



# FCC Radio Test Report

## FCC ID: 2A5LO-TOZEDZLTX100

This report concerns: Original Grant

**Project No.** : 2312C154  
**Equipment** : 5G Wireless Router  
**Brand Name** : Tozed Kangwei  
**Test Model** : ZLT X100 PRO  
**Series Model** : N/A  
**Applicant** : Tozed Kangwei Tech Co., Ltd  
**Address** : Room 1301, NO. 37 Jinlong , Nansha Street, Xiangjiang Financial Business Center, Nansha District, Guangzhou  
**Manufacturer** : Tozed Kangwei Tech Co., Ltd  
**Address** : Room 1301, NO. 37 Jinlong , Nansha Street, Xiangjiang Financial Business Center, Nansha District, Guangzhou  
**Factory** : Tozed Kangwei Tech Co., Ltd  
**Address** : Room 1301, NO. 37 Jinlong , Nansha Street, Xiangjiang Financial Business Center, Nansha District, Guangzhou  
**Date of Receipt** : Dec. 25, 2023  
**Date of Test** : Dec. 26, 2023 ~ Jan. 31, 2024  
**Issued Date** : Jan. 31, 2024  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG2023122560 for conducted, DG2023122563 and DG2023122561 for radiated.  
**Standard(s)** : FCC CFR Title 47, Part 15, Subpart E

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

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

**Limitation**

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

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

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**REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2312C154	R00	Original Report.	Jan. 31, 2024	Valid

## 1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ANSI C63.10-2013

The following reference test guidance is not within the scope of accreditation of NVLAP:

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

## 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart 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) 15.407(e)	Bandwidth	APPENDIX E	PASS	-----
15.407(a)	Maximum Output Power	APPENDIX F	PASS	-----
15.407(a)	Power Spectral Density	APPENDIX G	PASS	-----
15.407(g)	Frequency Stability	APPENDIX H	PASS	-----
15.203	Antenna Requirements	-----	PASS	NOTE (2)
15.407(c)	Automatically Discontinue Transmission	-----	PASS	NOTE (3)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
- (4) For UNII-1 this device was functioned as a
  - Outdoor access point device
  - Indoor access point device
  - Fixed point-to-point access points device
  - Client device

## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

For Radiated Emissions and Conducted Items:

Room 108, Building 2, No. 1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong 523000.

BTL's Registration Number for FCC: 568794

BTL's Designation Number for FCC: CN5041

For AC power line conducted emissions and Power Items:

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

BTL's Registration Number for FCC: 162128

BTL's Designation Number for FCC: CN5042

## 2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

### A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

### B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
SSL-CB01	CISPR	9kHz ~ 30MHz	2.74

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
SSL-CB01 (3m)	CISPR	30MHz ~ 200MHz	V	4.70
		30MHz ~ 200MHz	H	3.56
		200MHz ~ 1,000MHz	V	4.92
		200MHz ~ 1,000MHz	H	4.54

Test Site	Method	Measurement Frequency Range	U,(dB)
SSL-CB01 (3m)	CISPR	1GHz ~ 6GHz	4.56
		6GHz ~ 18GHz	5.14

Test Site	Method	Measurement Frequency Range	U,(dB)
SSL-CB01 (1m)	CISPR	18 ~ 26.5 GHz	3.30
		26.5 ~ 40 GHz	3.82



## C. Other Measurement test:

Test Item	Uncertainty
Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Power Spectral Density	±0.86 dB
Frequency Stability	±0.16 dB
Temperature	±0.08 °C
Humidity	±1.5%



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

**2.3 TEST ENVIRONMENT CONDITIONS**

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	23°C	51%	AC 120V/60Hz	Parker Mai
Radiated Emissions-9kHz to 30MHz	25°C	60%	AC 120V/60Hz	Max Wang
Radiated Emissions-30MHz to 1000MHz	24°C	43%	AC 120V/60Hz	Geoffrey Zou
Radiated Emissions-Above 1000 MHz	23°C	45%	AC 120V/60Hz	Max Wang
Bandwidth	21°C	53%	DC 12V	Tember Zhuang
Maximum Output Power	20~22°C	50~55%	DC 12V	Oliver Wang
Power Spectral Density	21°C	53%	DC 12V	Tember Zhuang
Frequency Stability	Normal & Extreme	53%	Normal & Extreme	Tember Zhuang

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	5G Wireless Router
Brand Name	Tozed Kangwei
Test Model	ZLT X100 PRO
Series Model	N/A
Model Difference(s)	N/A
Software Version	V1.0
Hardware Version	TZ7.823.806A
Power Source	DC voltage supplied from AC adapter. 1# Manufacturer / Model: KELI / KL-WA120YYY-G1 2# Manufacturer / Model: JiYin / JYSY018-1201500UD
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.7A    O/P: 12V  1.5A 2# I/P: 100-240V~ 50/60Hz 0.5A    O/P: 12V  1.5A
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 866.7 Mbps IEEE 802.11ax: up to 1201 Mbps
Maximum Output Power _UNII-1	IEEE 802.11ac(VHT80): 18.34 dBm (0.0682 W)
Maximum Output Power _UNII-2A	IEEE 802.11ax(HE80): 18.53 dBm (0.0713 W)
Maximum Output Power _UNII-2C	IEEE 802.11ac(VHT80): 18.65 dBm (0.0733 W)
Maximum Output Power _UNII-3	IEEE 802.11n(HT20): 18.17 dBm (0.0656 W)

Note:

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

## 2. Channel List:

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

IEEE 802.11a IEEE 802.11n(HT20) IEEE 802.11ac(VHT20) IEEE 802.11ax(HE20)		IEEE 802.11n(HT40) IEEE 802.11ac(VHT40) IEEE 802.11ax(HE40)		IEEE 802.11ac(VHT80) IEEE 802.11ax(HE80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

## 3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	ZTX	X100 PRO WIFI-1	PCB	N/A	5.54	UNII-1
					5.92	UNII-2A
					6.62	UNII-2C
					5.69	UNII-3
2	ZTX	X100 PRO WIFI-2	PCB	N/A	6.46	UNII-1
					6.35	UNII-2A
					7.36	UNII-2C
					7.65	UNII-3

## Note:

- 1) This EUT supports CDD(IEEE 802.11a mode) and MIMO, any transmit signals are correlated with each other, so Directional gain= $10\log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2/N]$  dBi, that is Directional gain= $10\log[(10^{6.62/20} + 10^{7.65/20})^2/2]$  dBi = 10.16. So, the UNII-1, UNII-3 output power limit is  $30-(10.16-6)=25.84$ , the UNII-2A, UNII-2C output power limit is  $24-(10.16-6)=19.84$ . The UNII-1 power spectral density limit is  $17-(10.16-6)=12.84$ , the UNII-2A, UNII-2C power spectral density limit is  $11-(10.16-6)=6.84$ , the UNII-3 power spectral density limit is  $30-(10.16-6)=25.84$ .
- 2) The antenna gain is provided by the manufacturer.

## 4. Table for Antenna Configuration:

Operating Mode	TX Mode	2TX
IEEE 802.11a		V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)		V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT20)		V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT40)		V (Ant. 1 + Ant. 2)
IEEE 802.11ac(VHT80)		V (Ant. 1 + Ant. 2)
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)

### 3.2 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 A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 11	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 12	TX N(HT40) Mode Channel 54/62 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 20	TX N(HT20) Mode Channel 100/116/140 (UNII-2C)
Mode 21	TX N(HT40) Mode Channel 102/110/134 (UNII-2C)
Mode 22	TX AC(VHT20) Mode Channel 100/116/140 (UNII-2C)
Mode 23	TX AC(VHT40) Mode Channel 102/110/134 (UNII-2C)
Mode 24	TX AC(VHT80) Mode Channel 106/122 (UNII-2C)
Mode 25	TX AX(HE20) Mode Channel 100/116/140 (UNII-2C)
Mode 26	TX AX(HE40) Mode Channel 102/110/134 (UNII-2C)
Mode 27	TX AX(HE80) Mode Channel 106/122 (UNII-2C)
Mode 28	TX A Mode Channel 149/157/165 (UNII-3)
Mode 29	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 30	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 31	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 32	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 33	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 34	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 35	TX AX(HE40) Mode Channel 151/159 (UNII-3)

Pretest Mode	Description
Mode 36	TX AX(HE80) Mode Channel 155 (UNII-3)
Mode 37	TX AC(VHT80) Mode Channel 122 (UNII-2C)

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 37	TX AC(VHT80) Mode Channel 122 (UNII-2C)

<b>Radiated Emissions Test - Below 1GHz</b>	
Final Test Mode	Description
Mode 37	TX AC(VHT80) Mode Channel 122 (UNII-2C)

<b>Radiated Emissions Test - Above 1GHz</b>	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 22	TX AC(VHT20) Mode Channel 100/116/140 (UNII-2C)
Mode 23	TX AC(VHT40) Mode Channel 102/110/134 (UNII-2C)
Mode 24	TX AC(VHT80) Mode Channel 106/122 (UNII-2C)
Mode 25	TX AX(HE20) Mode Channel 100/116/140 (UNII-2C)
Mode 26	TX AX(HE40) Mode Channel 102/110/134 (UNII-2C)
Mode 27	TX AX(HE80) Mode Channel 106/122 (UNII-2C)
Mode 28	TX A Mode Channel 149/157/165 (UNII-3)
Mode 31	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 32	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 33	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 34	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)

Final Test Mode	Description
Mode 35	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 36	TX AX(HE80) Mode Channel 155 (UNII-3)

Output Power Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 11	TX N(HT20) Mode Channel 52/60/64 (UNII-2A)
Mode 12	TX N(HT40) Mode Channel 54/62 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 20	TX N(HT20) Mode Channel 100/116/140 (UNII-2C)
Mode 21	TX N(HT40) Mode Channel 102/110/134 (UNII-2C)
Mode 22	TX AC(VHT20) Mode Channel 100/116/140 (UNII-2C)
Mode 23	TX AC(VHT40) Mode Channel 102/110/134 (UNII-2C)
Mode 24	TX AC(VHT80) Mode Channel 106/122 (UNII-2C)
Mode 25	TX AX(HE20) Mode Channel 100/116/140 (UNII-2C)
Mode 26	TX AX(HE40) Mode Channel 102/110/134 (UNII-2C)
Mode 27	TX AX(HE80) Mode Channel 106/122 (UNII-2C)
Mode 28	TX A Mode Channel 149/157/165 (UNII-3)
Mode 29	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 30	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 31	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 32	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 33	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 34	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)

Final Test Mode	Description
Mode 35	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 36	TX AX(HE80) Mode Channel 155 (UNII-3)

Other Conducted Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX AX(HE20) Mode Channel 36/40/48 (UNII-1)
Mode 8	TX AX(HE40) Mode Channel 38/46 (UNII-1)
Mode 9	TX AX(HE80) Mode Channel 42 (UNII-1)
Mode 10	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 13	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 14	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 15	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 16	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 17	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 18	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 19	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 22	TX AC(VHT20) Mode Channel 100/116/140 (UNII-2C)
Mode 23	TX AC(VHT40) Mode Channel 102/110/134 (UNII-2C)
Mode 24	TX AC(VHT80) Mode Channel 106/122 (UNII-2C)
Mode 25	TX AX(HE20) Mode Channel 100/116/140 (UNII-2C)
Mode 26	TX AX(HE40) Mode Channel 102/110/134 (UNII-2C)
Mode 27	TX AX(HE80) Mode Channel 106/122 (UNII-2C)
Mode 28	TX A Mode Channel 149/157/165 (UNII-3)
Mode 31	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 32	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 33	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 34	TX AX(HE20) Mode Channel 149/157/165 (UNII-3)
Mode 35	TX AX(HE40) Mode Channel 151/159 (UNII-3)
Mode 36	TX AX(HE80) Mode Channel 155 (UNII-3)



**Note:**

- (1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AC(VHT80) Mode Channel 122 (UNII-2C) 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 Output Power are tested, the worst case are IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, IEEE 802.11ac(VHT80) mode, IEEE 802.11ax(HE20) mode, IEEE 802.11ax(HE40) mode and IEEE 802.11ax(HE80) mode, only the worst cases are 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.
- (6) For AC power line conducted emissions and radiated emissions below 1 GHz test, all adapters had been pre-tested and in this report only recorded the worst adapter(Manufacturer / Model: JiYi /JYSY018-1201500UD).
- (7) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal and recorded.

### 3.3 PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software Version	Inter DUT		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	15	15	14.5
IEEE 802.11n(HT20)	15	15	14.5
IEEE 802.11ac(VHT20)	15	15	14.5
IEEE 802.11ax(HE20)	15	15	14
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	14.5	14	
IEEE 802.11ac(VHT40)	14.5	14	
IEEE 802.11ax(HE40)	14	14	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	15		
IEEE 802.11ax(HE80)	14.5		

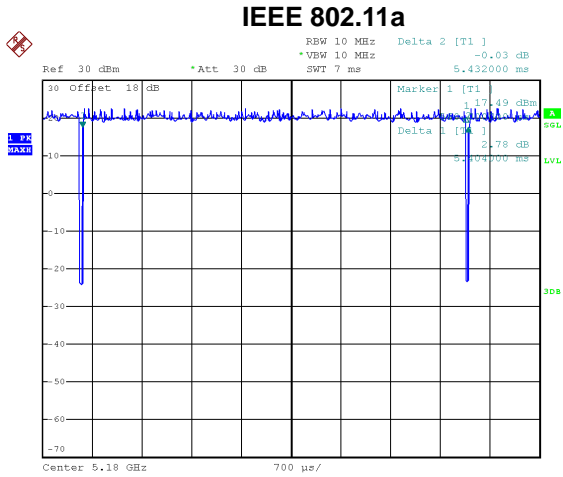
UNII-2A			
Test Software Version	Inter DUT		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	12.5	12.5	12.5
IEEE 802.11n(HT20)	12	12	12
IEEE 802.11ac(VHT20)	12.5	12.5	12.5
IEEE 802.11ax(HE20)	12.5	12.5	12.5
Frequency (MHz)	5270	5310	
IEEE 802.11n(HT40)	13.5	13.5	
IEEE 802.11ac(VHT40)	13.5	13.5	
IEEE 802.11ax(HE40)	13	13.5	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	14		
IEEE 802.11ax(HE80)	14		

UNII-2C			
Test Software Version	Inter DUT		
Frequency (MHz)	5500	5580	5700
IEEE 802.11a	12.5	12.5	12.5
IEEE 802.11n(HT20)	12	12	12
IEEE 802.11ac(VHT20)	12.5	12.5	12.5
IEEE 802.11ax(HE20)	12.5	12.5	12.5
Frequency (MHz)	5510	5550	5670
IEEE 802.11n(HT40)	14.5	14.5	14.5
IEEE 802.11ac(VHT40)	14.5	14.5	14.5
IEEE 802.11ax(HE40)	14.5	14.5	14.5
Frequency (MHz)	5530	5610	
IEEE 802.11ac(VHT80)	15	15	
IEEE 802.11ax(HE80)	15	14	
Frequency (MHz)	5570		

UNII-3			
Test Software Version	Inter DUT		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	16.5	16.5	17
IEEE 802.11n(HT20)	16.5	17	17.5
IEEE 802.11ac(VHT20)	16	17	17
IEEE 802.11ax(HE20)	16	16.5	17
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	16	16	
IEEE 802.11ac(VHT40)	16	16.5	
IEEE 802.11ax(HE40)	15.5	16	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	17		
IEEE 802.11ax(HE80)	16.5		

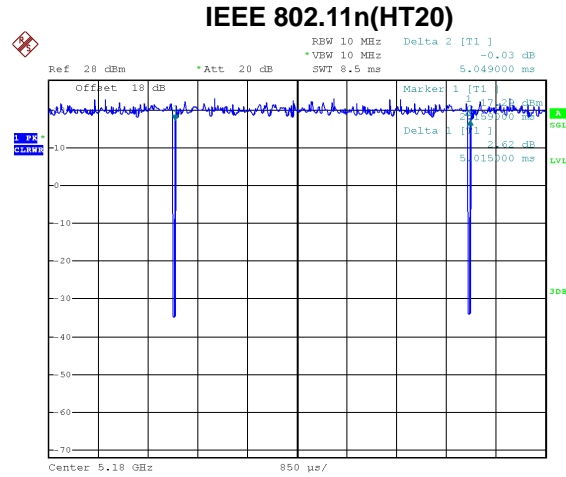
### 3.4 DUTY CYCLE

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



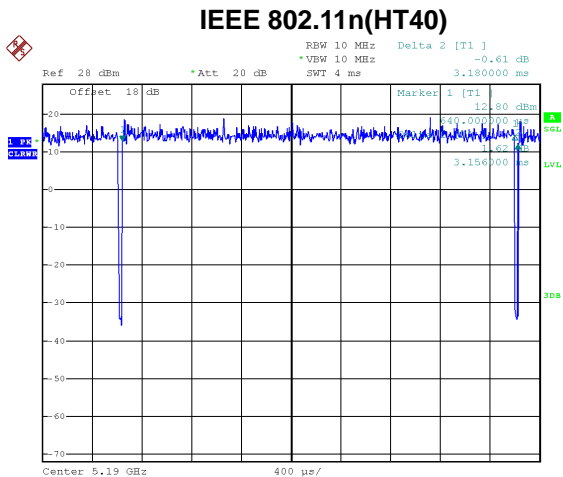
Date: 22.JAN.2024 09:22:51

Duty cycle = 5.404 ms / 5.432 ms = 99.48%  
 Duty Factor =  $10 \log(1 / \text{Duty cycle}) = 0.00$



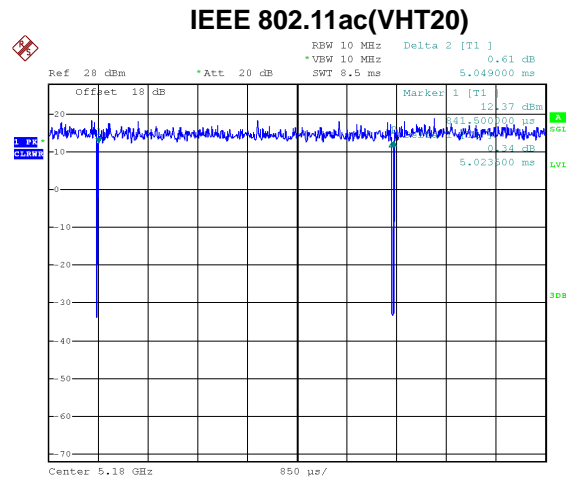
Date: 22.JAN.2024 09:25:27

Duty cycle = 5.015 ms / 5.049 ms = 99.33%  
 Duty Factor =  $10 \log(1 / \text{Duty cycle}) = 0.00$



Date: 22.JAN.2024 09:32:04

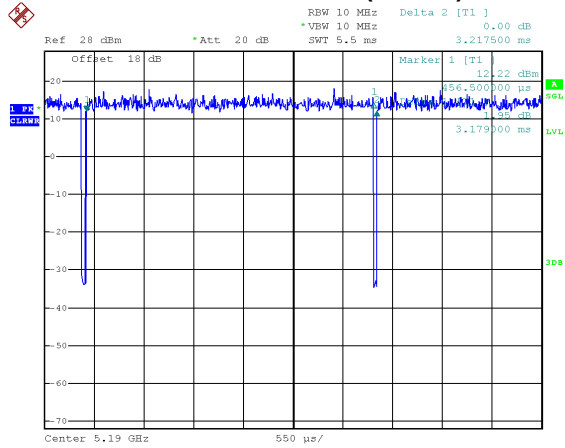
Duty cycle = 3.156 ms / 3.180 ms = 99.25%  
 Duty Factor =  $10 \log(1 / \text{Duty cycle}) = 0.00$



Date: 22.JAN.2024 09:30:07

Duty cycle = 5.024 ms / 5.049 ms = 99.49%  
 Duty Factor =  $10 \log(1 / \text{Duty cycle}) = 0.00$

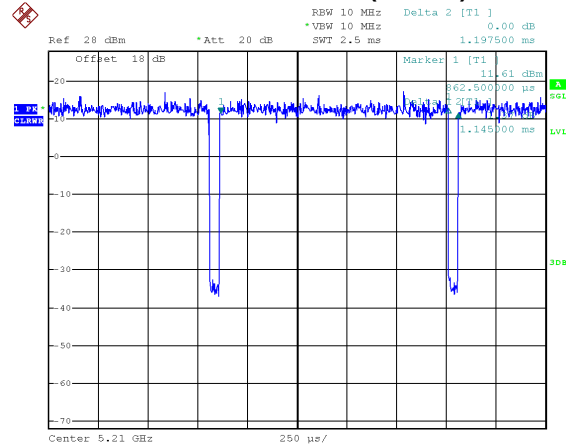
### IEEE 802.11ac(VHT40)



Date: 22.JAN.2024 09:32:50

Duty cycle = 3.179 ms / 3.218 ms = 98.80%  
Duty Factor = 10 log(1 / Duty cycle) = 0.00

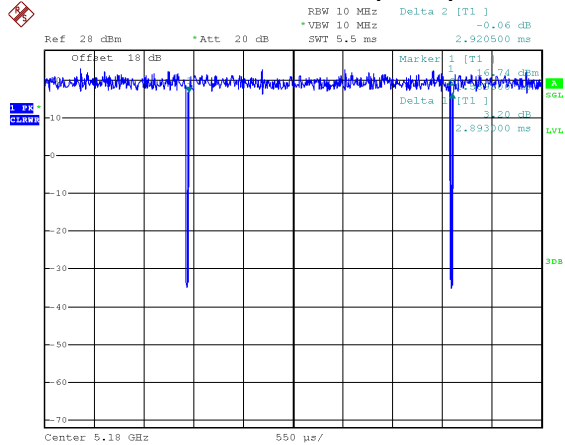
### IEEE 802.11ac(VHT80)



Date: 22.JAN.2024 09:39:59

Duty cycle = 1.145 ms / 1.198 ms = 95.62%  
Duty Factor = 10 log(1 / Duty cycle) = 0.19

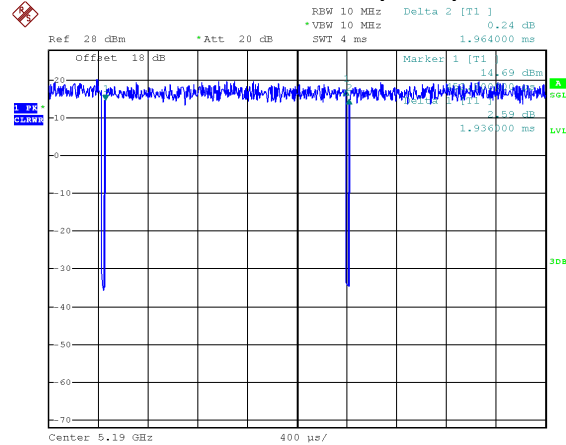
### IEEE 802.11ax(HE20)



Date: 22.JAN.2024 09:41:15

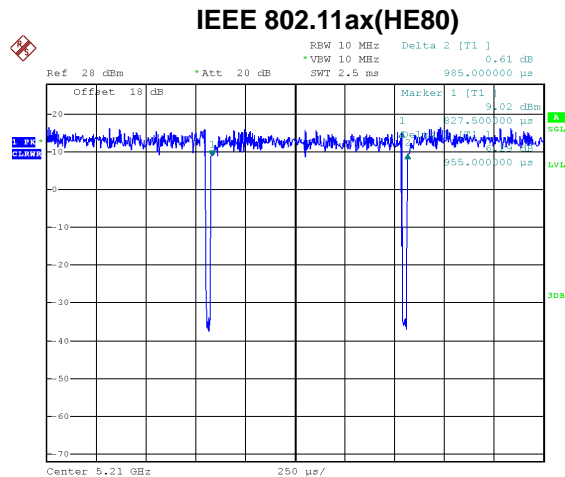
Duty cycle = 2.893 ms / 2.921 ms = 99.06%  
Duty Factor = 10 log(1 / Duty cycle) = 0.00

### IEEE 802.11ax(HE40)



Date: 22.JAN.2024 09:42:12

Duty cycle = 1.936 ms / 1.964 ms = 98.57%  
Duty Factor = 10 log(1 / Duty cycle) = 0.00



Date: 22.JAN.2024 09:43:24

Duty cycle = 0.955 ms / 0.985 ms = 96.95%  
 Duty Factor = 10 log(1 / Duty cycle) = 0.13

**NOTE:**

For IEEE 802.11a:

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

For IEEE 802.11n(HT20):

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

For IEEE 802.11n(HT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle ≥ 98%).

For IEEE 802.11ac(VHT20):

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

For IEEE 802.11ac(VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle ≥ 98%).

For IEEE 802.11ac(VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 873 Hz (Duty cycle < 98%).

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 1 kHz (Duty cycle ≥ 98%).

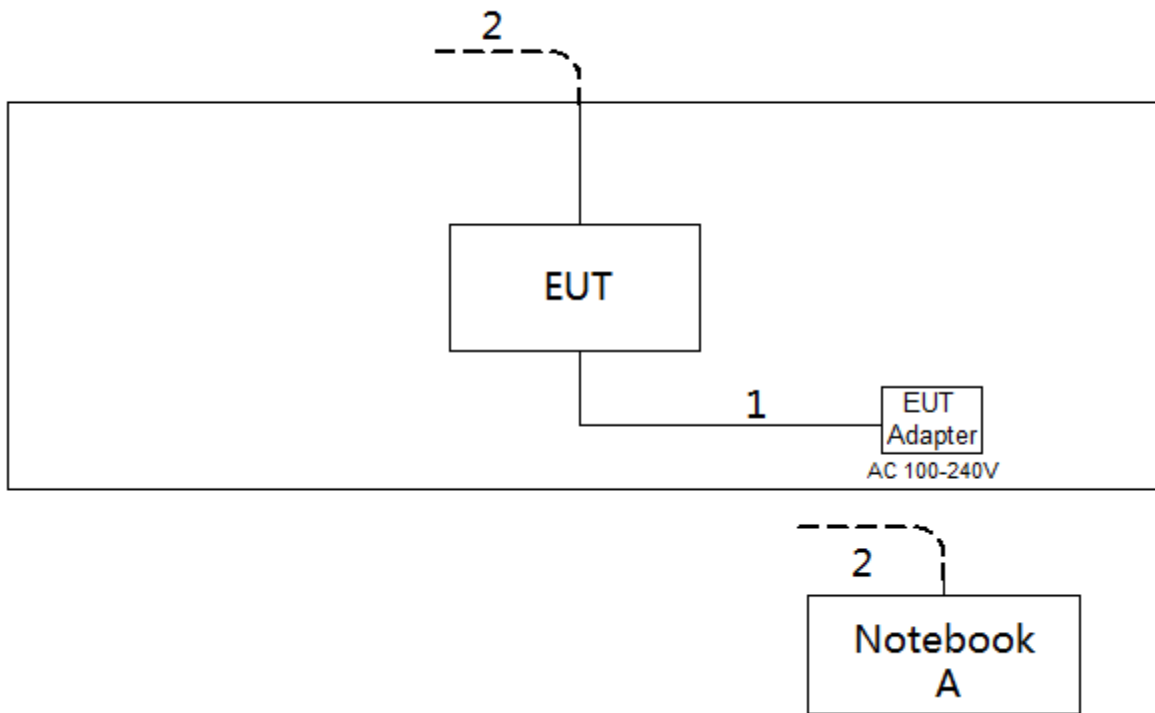
For IEEE 802.11ax(HE40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (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 1047 Hz (Duty cycle < 98%).

### 3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



### 3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Lenovo	Think Book 14 G6 ABP	N/A

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

## 4. AC POWER LINE CONDUCTED EMISSIONS

### 4.1 LIMIT

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.5 - 5.0	56	46
5.0 - 30.0	60	50

**NOTE:**

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

### 4.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

The following table is the setting of the receiver:

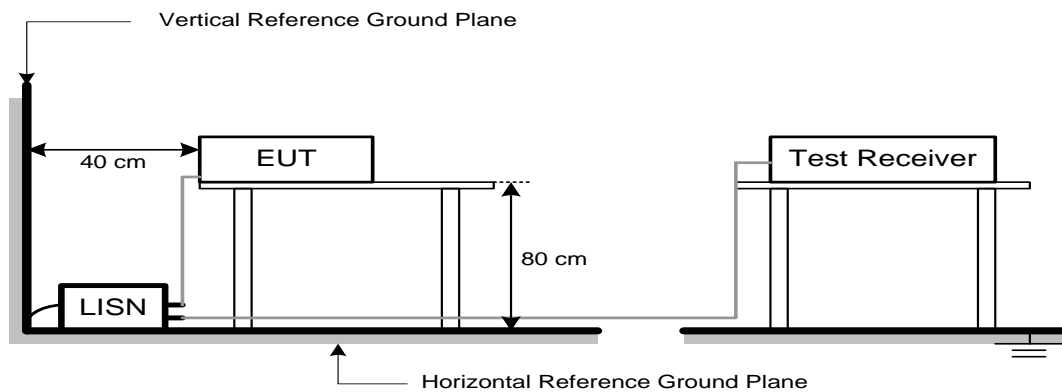
Receiver Parameter	Setting
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

### 4.3 DEVIATION FROM TEST STANDARD

No deviation



#### 4.4 TEST SETUP



#### 4.5 EUT OPERATION CONDITIONS

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.

#### 4.6 TEST RESULTS

Please refer to the APPENDIX A.

## 5. RADIATED EMISSIONS

### 5.1 LIMIT

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

#### LIMITS OF RADIATED 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)	Band edge at 3m (dBμV/m)	Harmonic at 1.5m (dBμV/m)
5150-5250	-27	68.2	74.2 (Note 3)
5250-5350	-27	68.2	74.2 (Note 3)
5470-5725	-27	68.2	74.2 (Note 3)
5725-5850 NOTE (2)	-27	68.2	74.2 (Note 3)
	10	105.2	111.2 (Note 3)
	15.6	110.8	116.8 (Note 3)
	27	122.2	128.2 (Note 3)

#### NOTE:

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

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

- (2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (3)

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

$$20 \log (d_{\text{limit}}/d_{\text{measure}}) = 20 \log (3/1.5) = 6 \text{ dB.}$$

## 5.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m or 1.5m 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

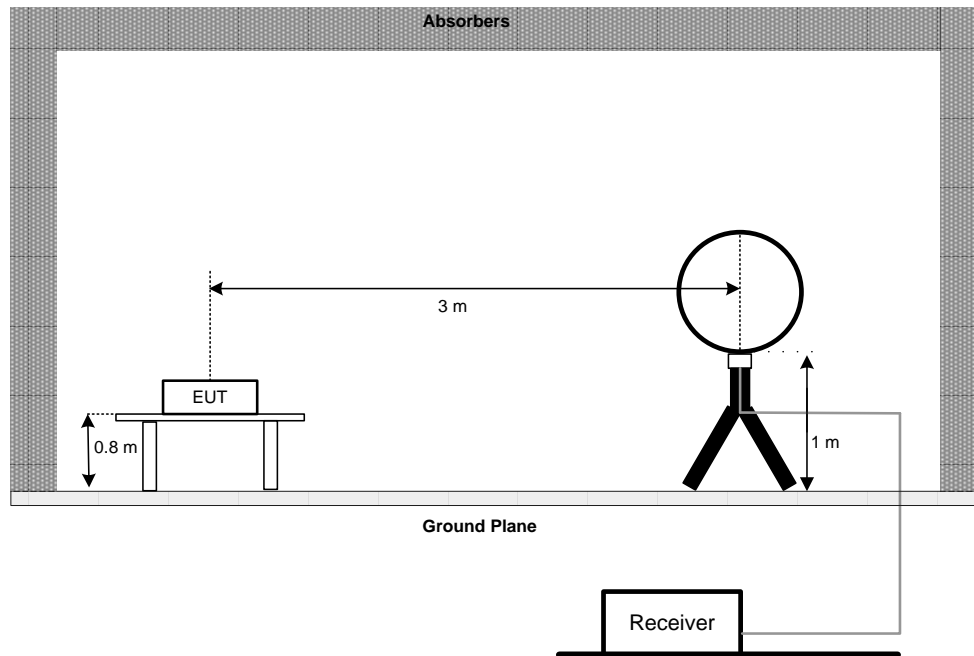
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

### 5.3 DEVIATION FROM TEST STANDARD

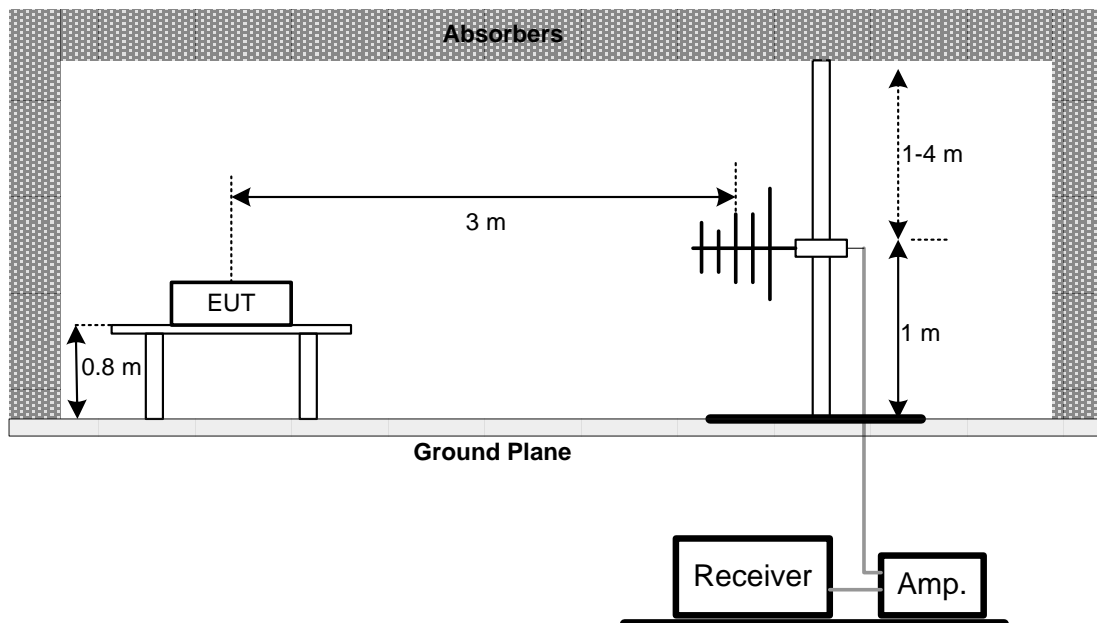
No deviation.

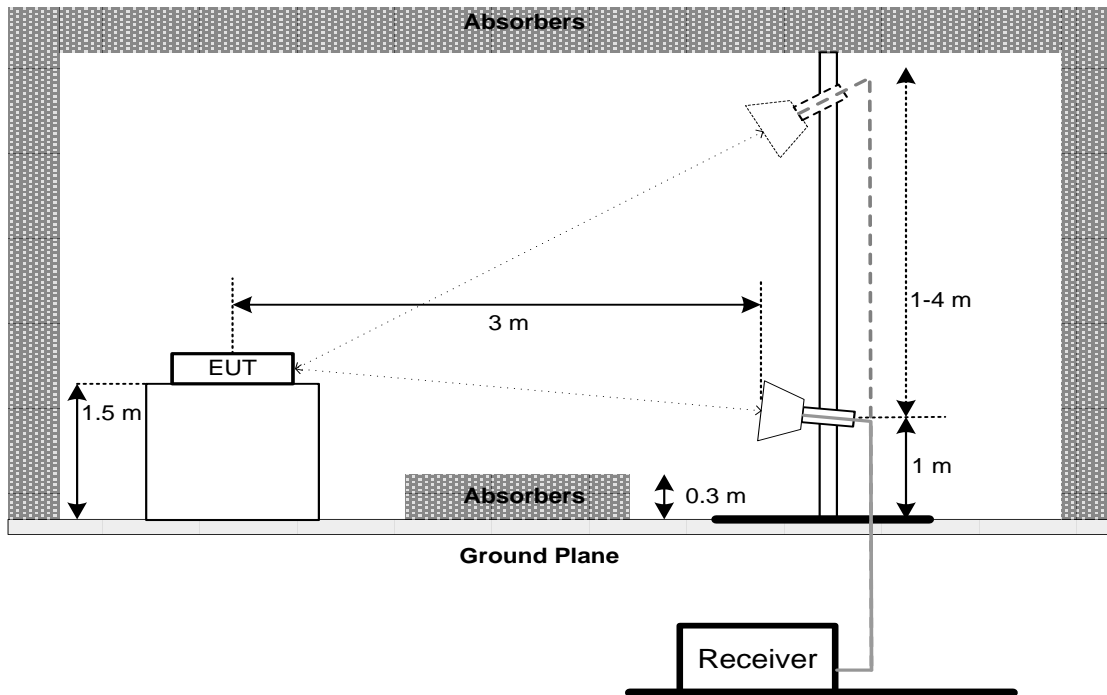
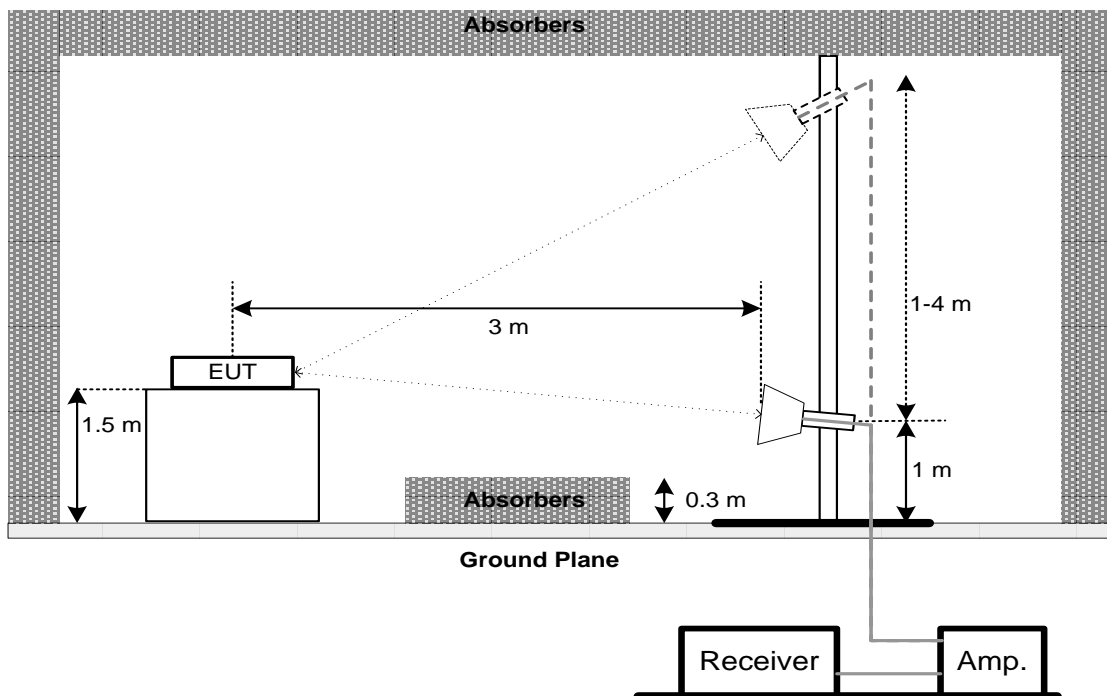
### 5.4 TEST SETUP

#### 9 kHz to 30 MHz

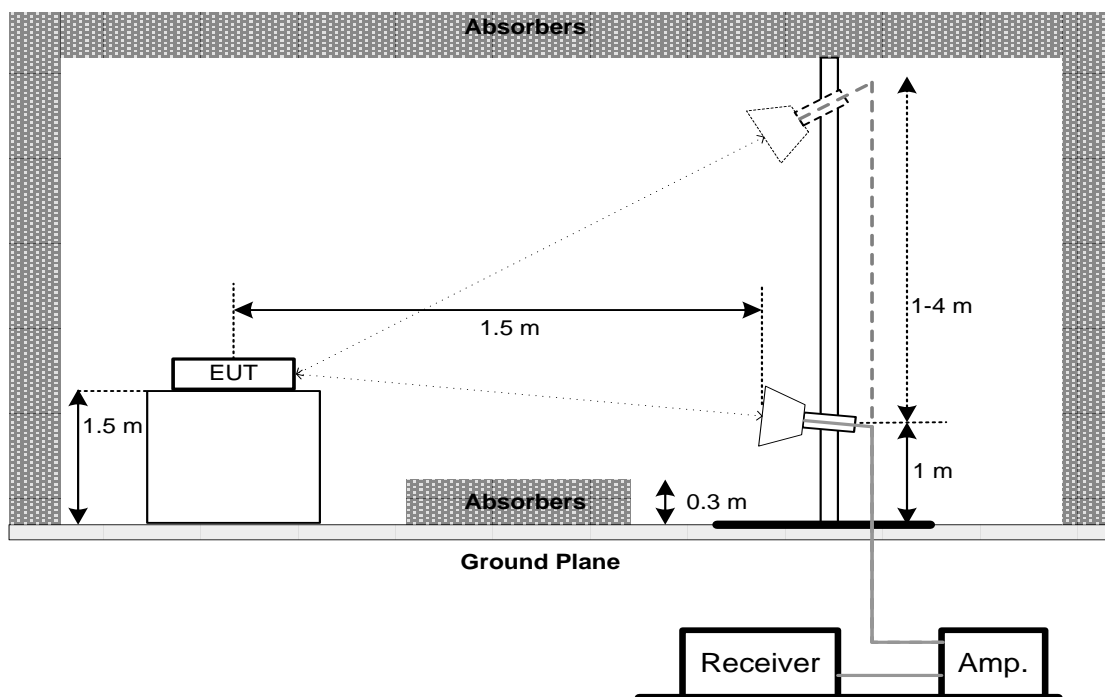


#### 30 MHz to 1 GHz



**Above 1 GHz  
Band edge****Harmonic (1 GHz to 18 GHz)**

### Harmonic (18 GHz to 40 GHz)



#### 5.5 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.

#### 5.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

- (1) Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB).
- (2) Limit line = specific limits (dBuV) + distance extrapolation factor.

#### 5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

#### 5.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.  
For fundamental signal judgment was referred to Peak output test.

## 6. BANDWIDTH

### 6.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a) FCC 15.407(e)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

### 6.2 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 UNII-1, UNII-2A, UNII-2C:

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

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	> 6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
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 / 6 dB below carrier.

### 6.3 DEVIATION FROM STANDARD

No deviation.

### 6.4 TEST SETUP



**6.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

**6.6 TEST RESULTS**

Please refer to the APPENDIX E.



## 7. MAXIMUM OUTPUT POWER

### 7.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm)	5150-5250
		Client device: 250 mW (23.98 dBm)	
		250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

- a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

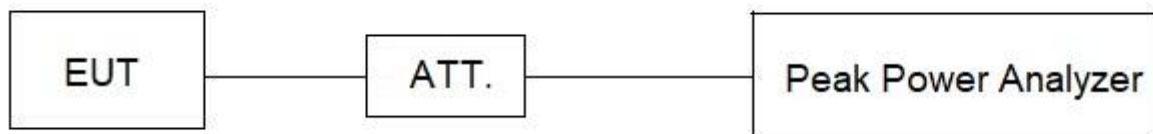
### 7.2 TEST PROCEDURE

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

### 7.3 DEVIATION FROM STANDARD

No deviation.

### 7.4 TEST SETUP



### 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 7.6 TEST RESULTS

Please refer to the APPENDIX F.

## 8. POWER SPECTRAL DENSITY

### 8.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

### 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:  
For UNII-1, UNII-2A, UNII-2C:

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

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	100 kHz.
VBW	300 kHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 100kHz and VBW at 300kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add  $10 \log (500 \text{ kHz}/100 \text{ kHz})$  to the measured result, i.e. 7 dB.
- During the test of U-NII 3 PSD, the measurement result with RBW=100kHz has been added 7 dB by compensating offset. For example, the cable loss is 18 dB, and the final offset is  $18 + 7 = 25 \text{ dB}$  when RBW=100kHz is used.

### 8.3 DEVIATION FROM STANDARD

No deviation.

#### 8.4 TEST SETUP



#### 8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 8.6 TEST RESULTS

Please refer to the APPENDIX G.

## 9. FREQUENCY STABILITY

### 9.1 LIMIT

Section	Test Item	Limit	Frequency Range (MHz)
FCC 15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5150-5250
			5250-5350
			5470-5725
			5725-5850

### 9.2 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:

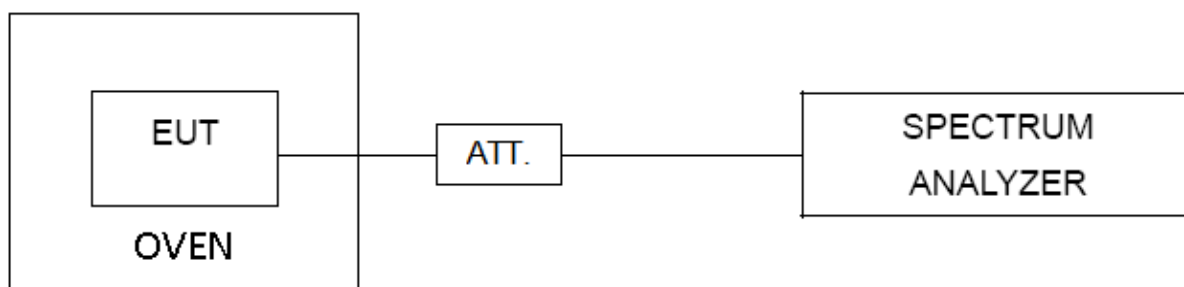
Spectrum Parameter	Setting
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- d. User manual temperature is 0°C~45°C.

### 9.3 DEVIATION FROM STANDARD

No deviation.

### 9.4 TEST SETUP



### 9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 9.6 TEST RESULTS

Please refer to the APPENDIX H.

**10. MEASUREMENT INSTRUMENTS LIST**

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESR3	103027	Jun. 16, 2024
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 22, 2024
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 27, 2024
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-025	Apr. 01, 2024
2*	MXE EMI Receiver	Keysight	N9038A	MY59050118	Feb. 10, 2024
3	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-3000	N/A	Jun. 08, 2024
4	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-7000	N/A	Jun. 08, 2024
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	Taihe Mao Rui	9*6*6 (NSA&VSWR)	N/A	Jun. 02, 2024

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	01269	May. 15, 2024
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AN-N0697	May. 15, 2024
3	Preamplifier	EMC INSTRUMENT	EMC001330	4585/5/27	Feb. 10, 2024
4	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-2500	N/A	Jun. 08, 2024
5	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-7000	N/A	Jun. 08, 2024
6	Cable	EMC INSTRUMENT	EMCCFD400-NM-N M-3000	N/A	Jun. 08, 2024
7	MXE EMI Receiver	KEYSIGHT	N9038A	MY59050118	Feb. 10, 2024
8	Positioning Controller	MF	MF-7802BS	N/A	N/A
9	Max-Full Antenna Corp	MF	MFA-560BSN	N/A	N/A
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
11	wideband radio communication tester	R&S	CMW500	164094	Jul. 07, 2024
12	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
13	966 Chamber room	Taihe Mao Rui	9*6*6 (NSA&VSWR)	N/A	Jun. 02, 2024

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXE EMI Receiver	Keysight	N9038A	MY59050118	Feb. 10, 2024
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	Preamplifier	EMC INSTRUMENT	EMC118A45SE	980739	Feb. 10, 2024
4	Cable	EMC INSTRUMENT	EMC104-SM-SM-1 0000	N/A	Jun. 08, 2024
5	Cable	EMC INSTRUMENT	EMC104-SM-SM-3 000	N/A	Jun. 08, 2024
6	Cable	EMC INSTRUMENT	EMC104-SM-SM-8 00	N/A	Jun. 08, 2024
7	wideband radio communication tester	R&S	CMW500	164094	Jul. 07, 2024
8	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
9	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1046	Jul. 05, 2024
10	966 Chamber room	Taihe Mao Rui	9*6*6 (NSA&VSWR)	N/A	Jun. 02, 2024

Bandwidth & Conducted Spurious Emissions & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP38	100852	Jun. 16, 2024
2	Attenuator	RegalWay	RWA-201-S-10	N/A	Sep. 26, 2024
3	Digital Multimeter	FLUKE	15B PRO	59056240WS	Sep. 25, 2024
4	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
5	Attenuator	RegalWay	RWA-201-S-6	N/A	Sep. 26, 2024
6	Temperature Chamber	ESPEC CORP	SU-242	93018736	Jul. 07, 2024

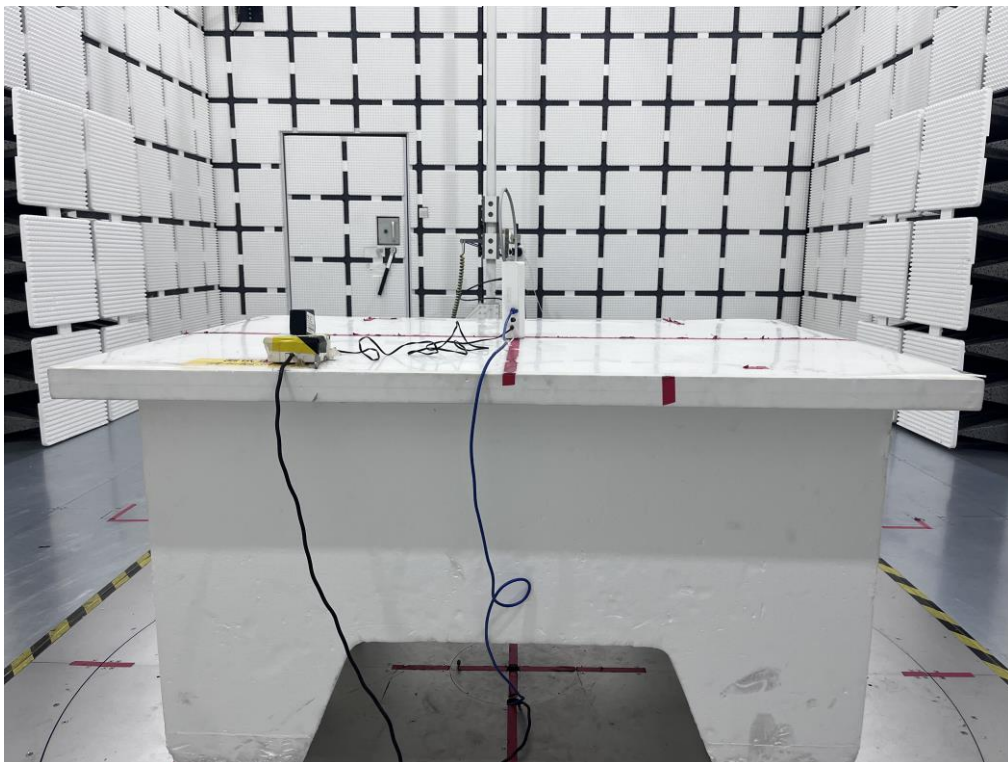
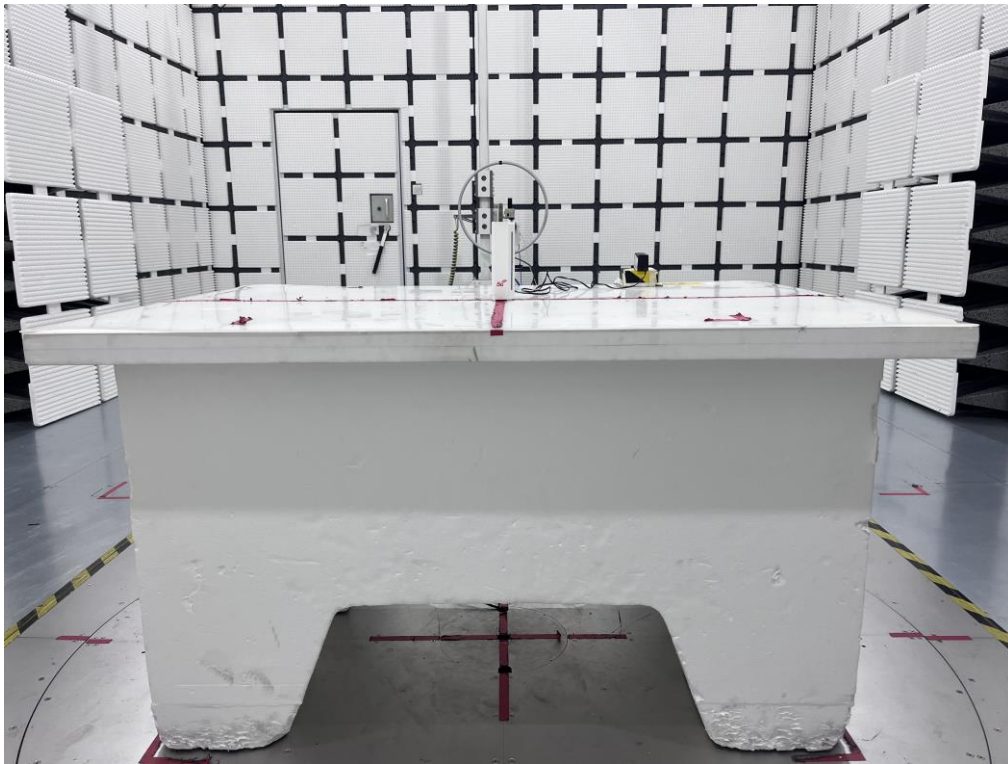
Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Jun. 17, 2024
2	Wideband power sensor	Keysight	N1923A	MY58310004	Jun. 17, 2024
3	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A

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

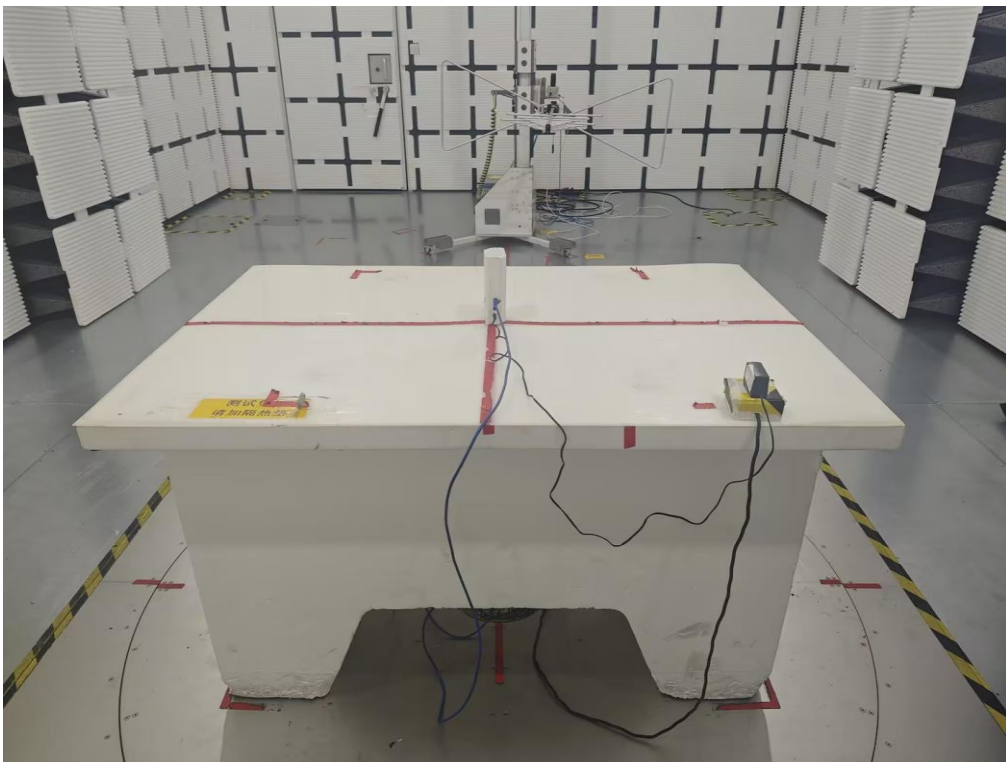
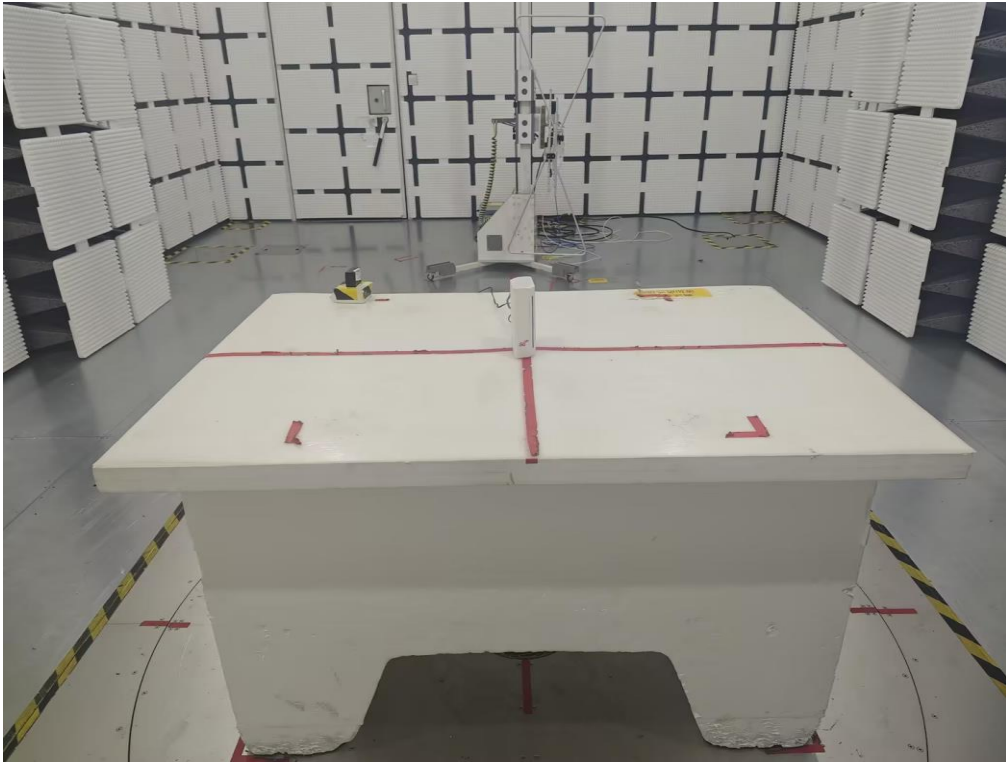
All calibration period of equipment list is one year.

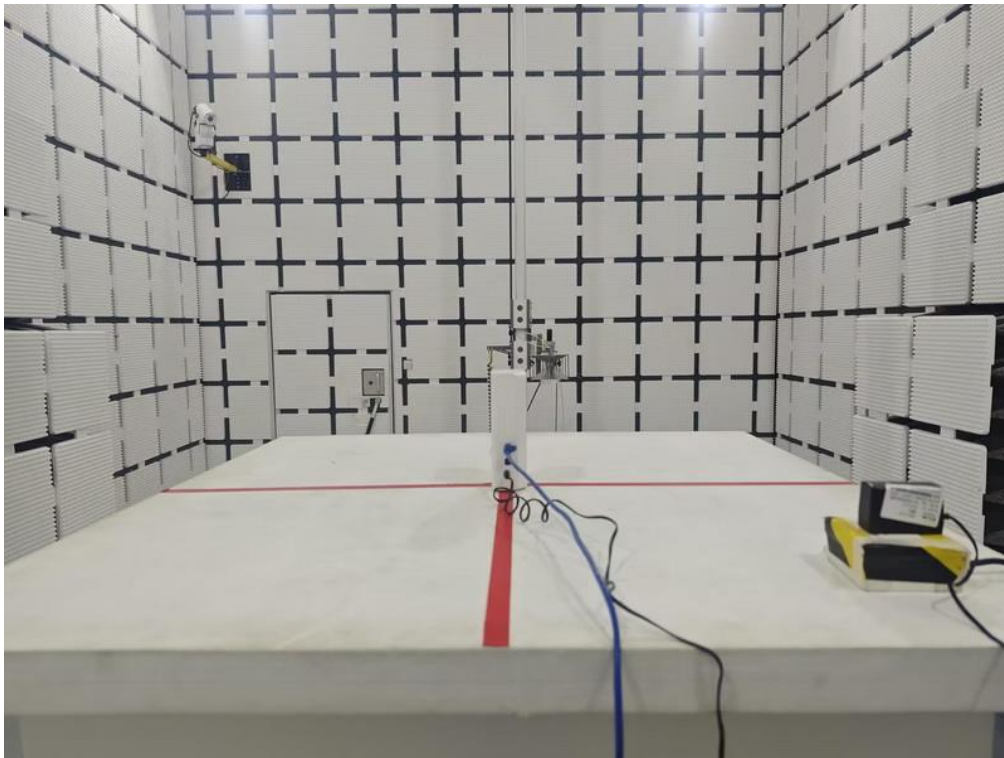
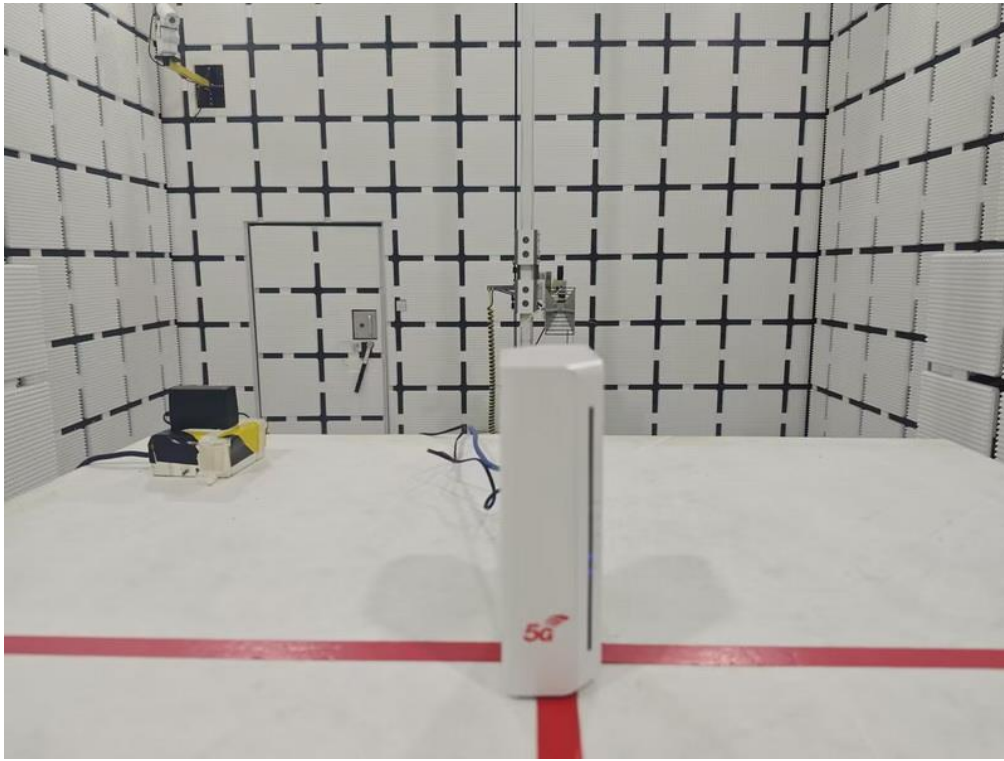
**11. EUT TEST PHOTOS****AC Power Line Conducted Emissions Test Photos**



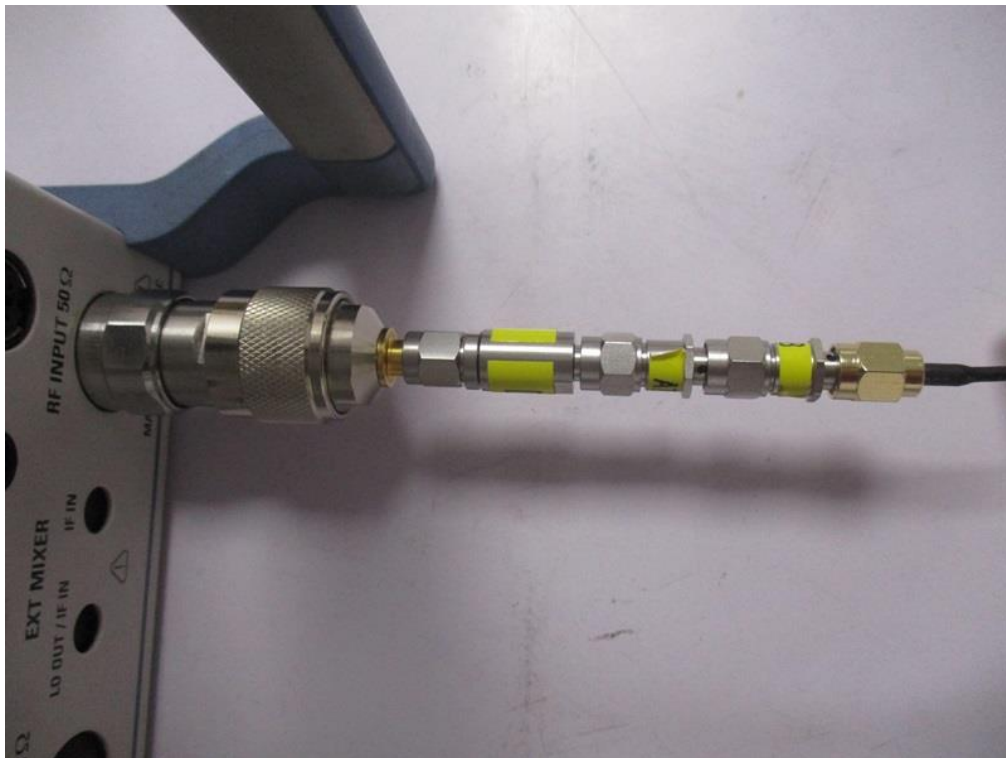
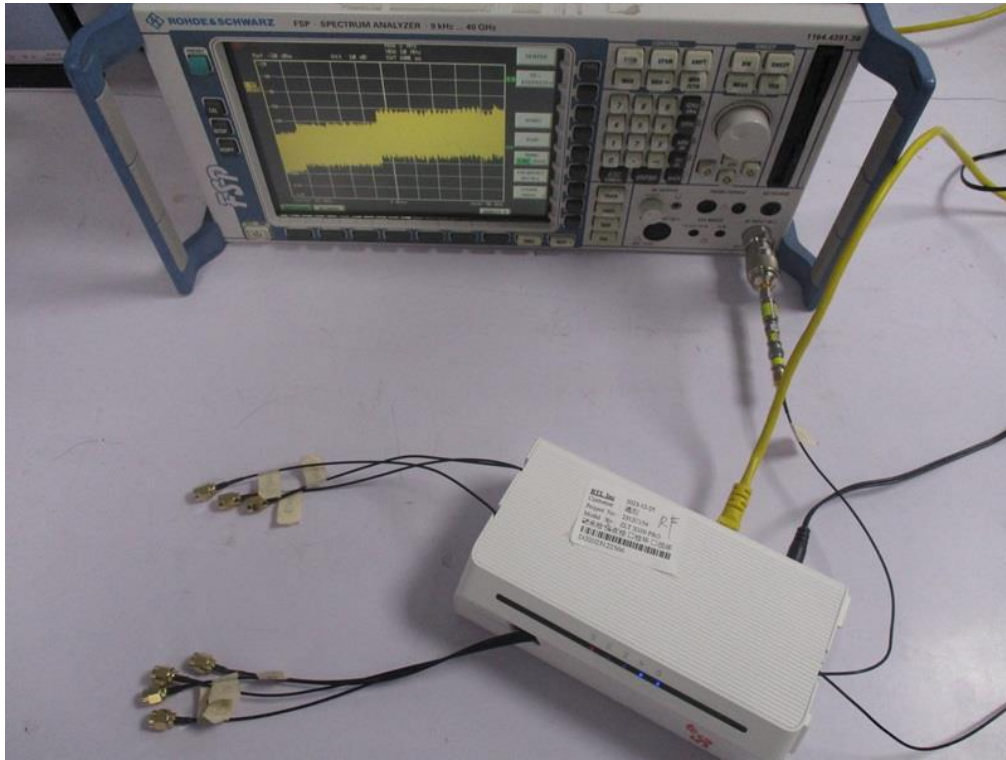
**Radiated Emissions Test Photos****9 kHz to 30 MHz**



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

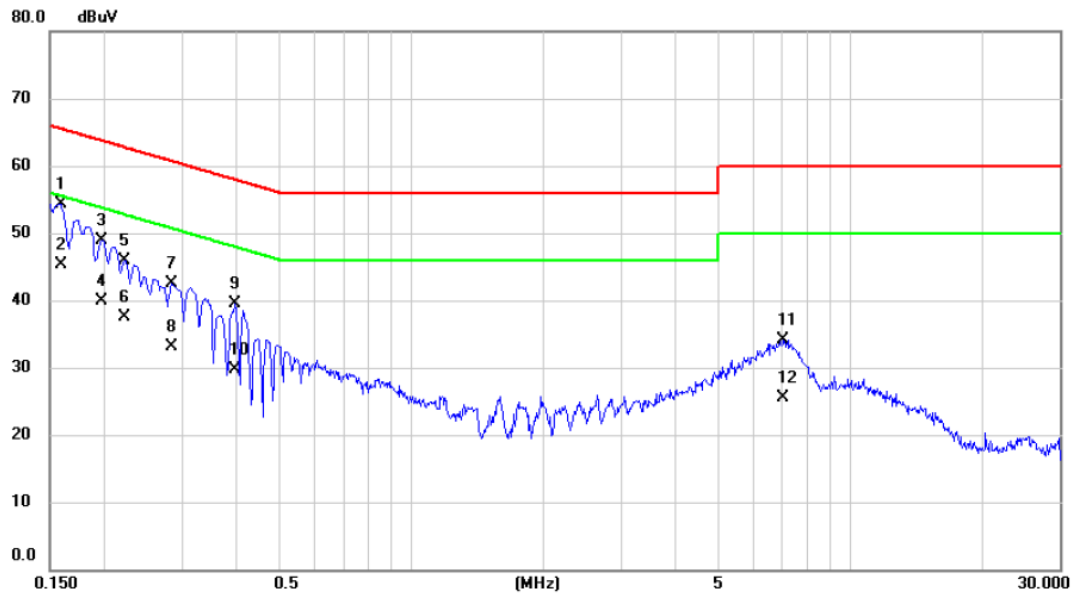
**Radiated Emissions Test Photos****Above 1 GHz**

### Conducted Test Photos



## **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**

Test Mode	TX AC(VHT80) Mode Channel 122 (UNII-2C)	Phase	Line
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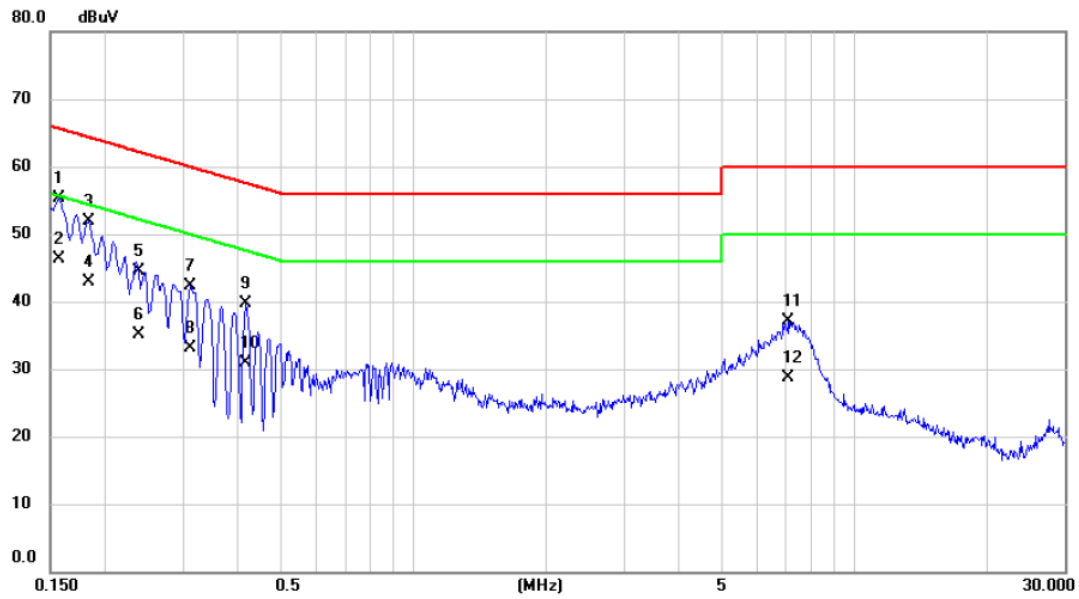
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	44.67	9.69	54.36	65.52	-11.16	QP	
2	*	0.1590	35.60	9.69	45.29	55.52	-10.23	AVG	
3		0.1973	39.20	9.68	48.88	63.72	-14.84	QP	
4		0.1973	30.20	9.68	39.88	53.72	-13.84	AVG	
5		0.2220	36.25	9.68	45.93	62.74	-16.81	QP	
6		0.2220	27.80	9.68	37.48	52.74	-15.26	AVG	
7		0.2850	32.79	9.68	42.47	60.67	-18.20	QP	
8		0.2850	23.50	9.68	33.18	50.67	-17.49	AVG	
9		0.3975	29.83	9.69	39.52	57.91	-18.39	QP	
10		0.3975	20.10	9.69	29.79	47.91	-18.12	AVG	
11		7.0395	24.20	9.90	34.10	60.00	-25.90	QP	
12		7.0395	15.60	9.90	25.50	50.00	-24.50	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 AC(VHT80) Mode Channel 122 (UNII-2C)	Phase	Neutral
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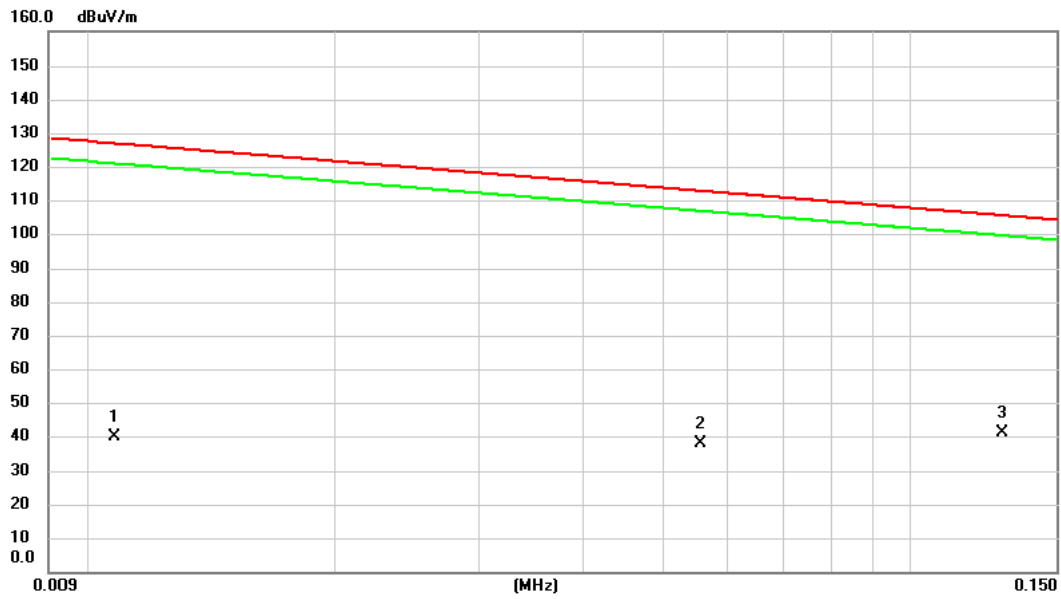
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1568	45.66	9.66	55.32	65.63	-10.31	QP	
2	*	0.1568	36.60	9.66	46.26	55.63	-9.37	AVG	
3		0.1838	42.20	9.66	51.86	64.31	-12.45	QP	
4		0.1838	33.20	9.66	42.86	54.31	-11.45	AVG	
5		0.2378	34.88	9.65	44.53	62.17	-17.64	QP	
6		0.2378	25.40	9.65	35.05	52.17	-17.12	AVG	
7		0.3120	32.64	9.66	42.30	59.92	-17.62	QP	
8		0.3120	23.50	9.66	33.16	49.92	-16.76	AVG	
9		0.4177	30.14	9.65	39.79	57.49	-17.70	QP	
10		0.4177	21.20	9.65	30.85	47.49	-16.64	AVG	
11		7.0913	27.16	9.89	37.05	60.00	-22.95	QP	
12		7.0913	18.90	9.89	28.79	50.00	-21.21	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**

Test Mode	TX AC(VHT80) Mode Channel 122 (UNII-2C)	Polarization	Ant 0°
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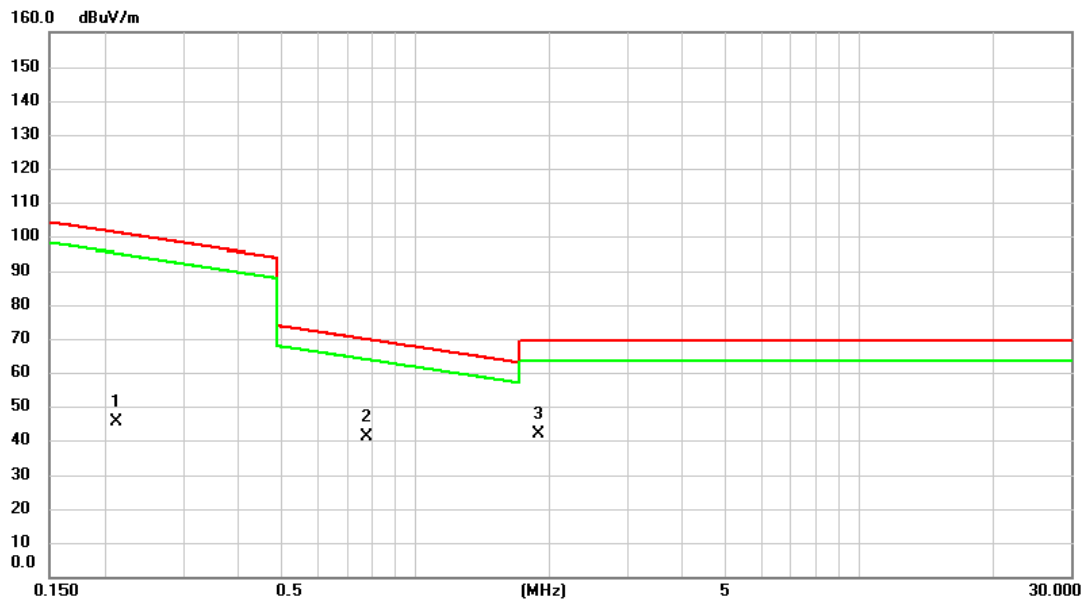
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0108	18.47	21.23	39.70	126.94	-87.24	AVG	
2		0.0557	17.74	20.01	37.75	112.69	-74.94	AVG	
3	*	0.1290	20.77	20.16	40.93	105.40	-64.47	AVG	

**REMARKS:**

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



Test Mode	TX AC(VHT80) Mode Channel 122 (UNII-2C)	Polarization	Ant 0°
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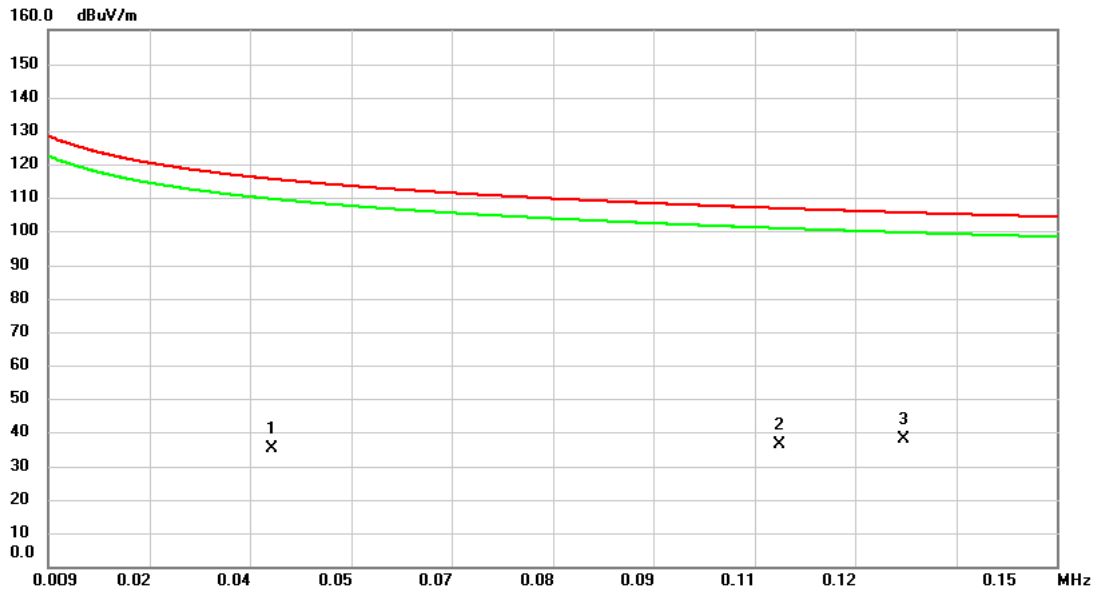


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.2106	25.22	20.06	45.28	101.14	-55.86	AVG	
2	0.7768	20.87	20.03	40.90	69.80	-28.90	QP	
3 *	1.8813	21.63	20.00	41.63	69.54	-27.91	QP	

**REMARKS:**

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

Test Mode	TX AC(VHT80) Mode Channel 122 (UNII-2C)	Polarization	Ant 90°
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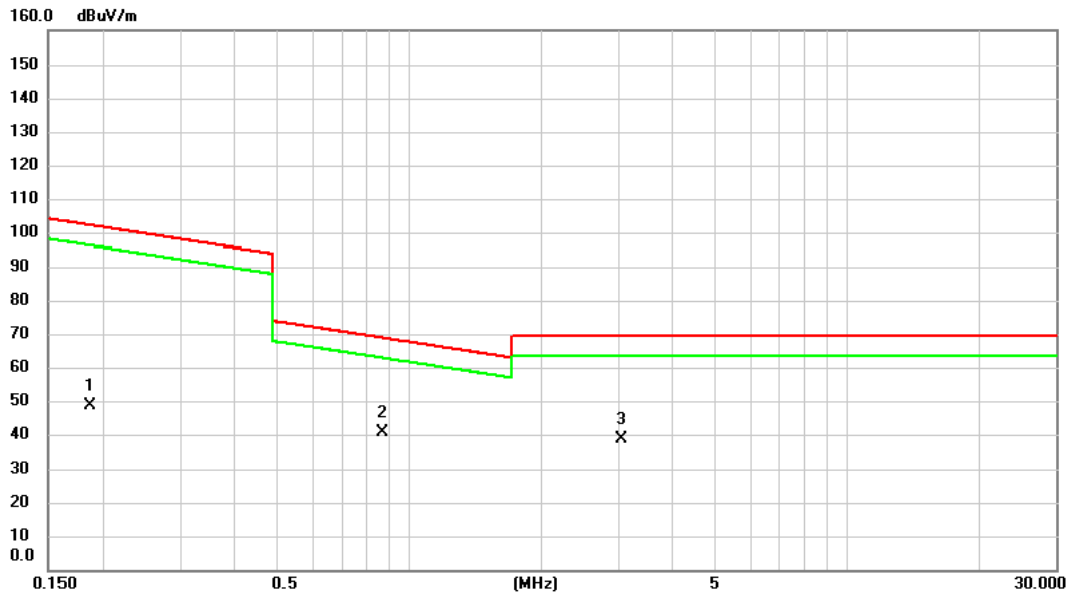


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0403	14.87	20.00	34.87	115.50	-80.63	AVG	
2		0.1111	15.85	20.17	36.02	106.69	-70.67	AVG	
3	*	0.1287	17.70	20.16	37.86	105.42	-67.56	AVG	

**REMARKS:**

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

Test Mode	TX AC(VHT80) Mode Channel 122 (UNII-2C)	Polarization	Ant 90°
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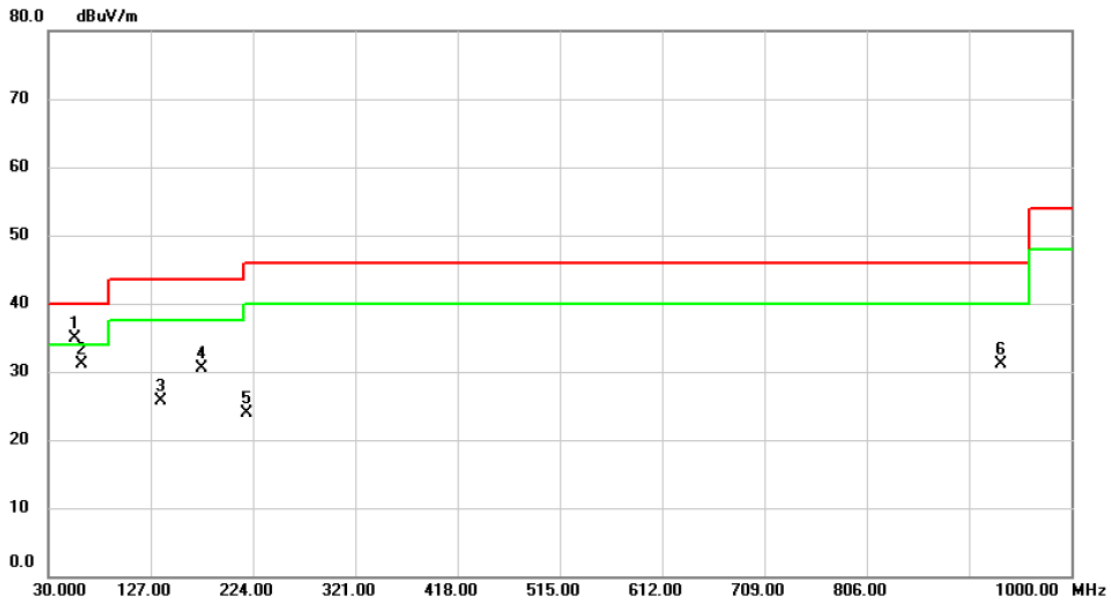
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1864	28.36	20.09	48.45	102.20	-53.75	AVG	
2	*	0.8664	20.67	20.02	40.69	68.85	-28.16	AVG	
3		3.0455	18.47	20.06	38.53	69.54	-31.01	AVG	

**REMARKS:**

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

**APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ**

Test Mode	TX AC(VHT80) Mode Channel 122 (UNII-2C)	Polarization	Vertical
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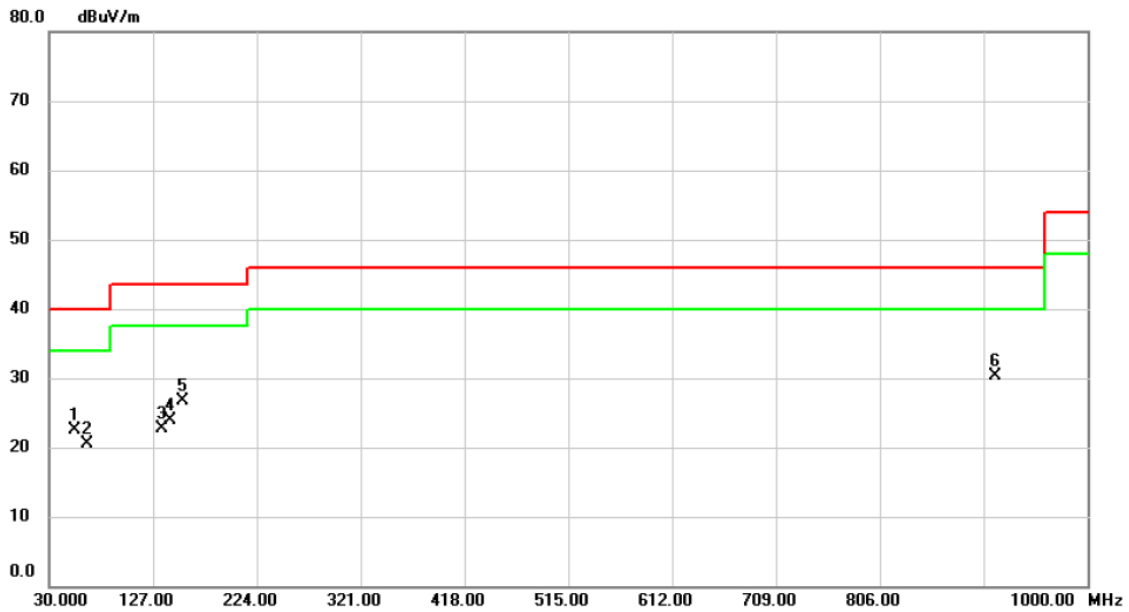


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	55.7050	47.16	-12.20	34.96	40.00	-5.04	peak	
2		62.0100	43.91	-12.86	31.05	40.00	-8.95	peak	
3		136.7000	38.40	-12.68	25.72	43.50	-17.78	peak	
4		175.0150	42.97	-12.55	30.42	43.50	-13.08	peak	
5		218.1800	39.00	-15.18	23.82	46.00	-22.18	peak	
6		933.5550	30.86	0.15	31.01	46.00	-14.99	peak	

**REMARKS:**

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

Test Mode	TX AC(VHT80) Mode Channel 122 (UNII-2C)	Polarization	Horizontal
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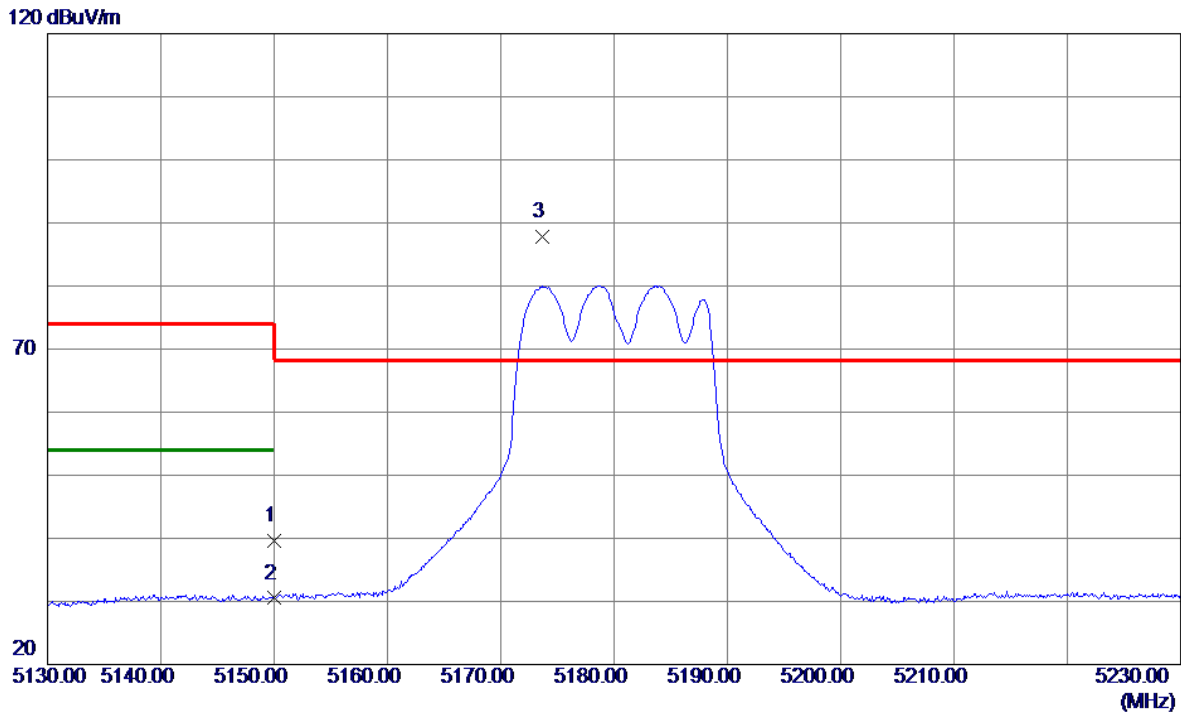
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	54.2500	34.68	-12.11	22.57	40.00	-17.43	peak	
2	64.9200	33.84	-13.25	20.59	40.00	-19.41	peak	
3	135.7300	35.57	-12.77	22.80	43.50	-20.70	peak	
4	142.5200	36.21	-12.23	23.98	43.50	-19.52	peak	
5	154.6450	38.36	-11.71	26.65	43.50	-16.85	peak	
6 *	913.6700	30.44	-0.08	30.36	46.00	-15.64	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-1_TX A Mode 5180 MHz	Polarization	Horizontal
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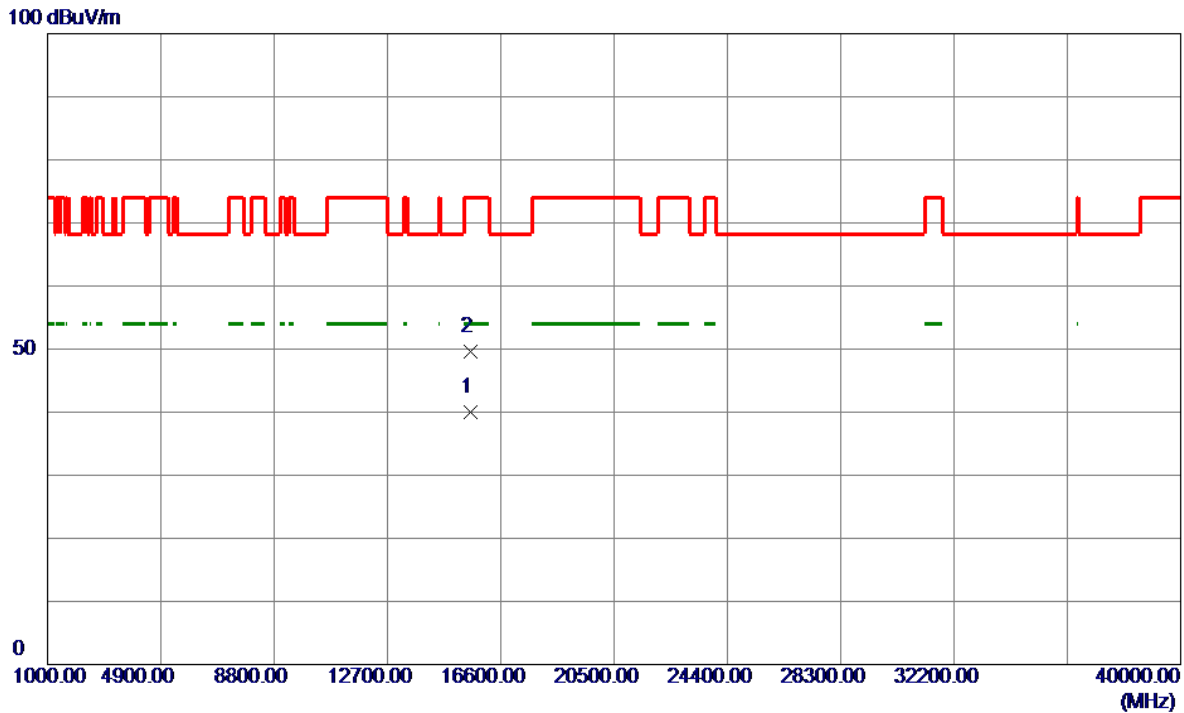
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	35.38	4.27	39.65	74.00	-34.35	Peak	
2	5150.0000	26.23	4.27	30.50	54.00	-23.50	AVG	
3 *	5173.7000	83.61	4.27	87.88	68.20	19.68	Peak	

REMARKS:

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



Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Horizontal
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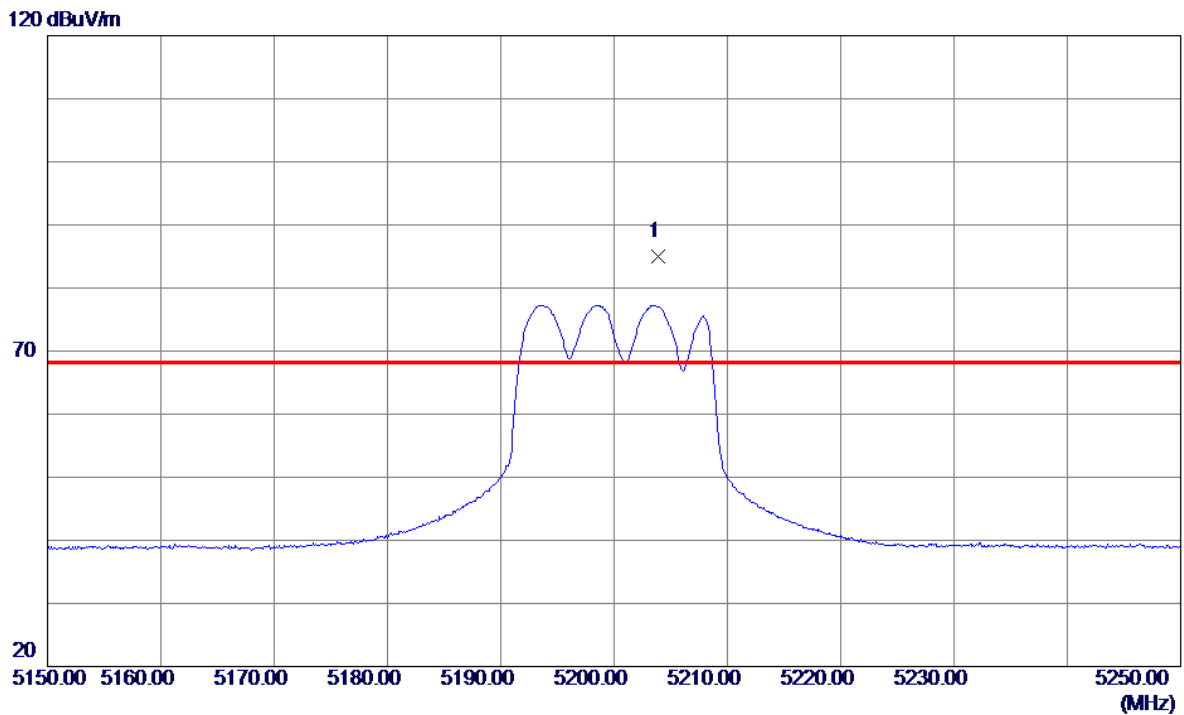


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15561.8750	30.13	9.86	39.99	54.00	-14.01	AVG	
2	15564.0250	39.71	9.86	49.57	74.00	-24.43	Peak	

REMARKS:

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

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Horizontal
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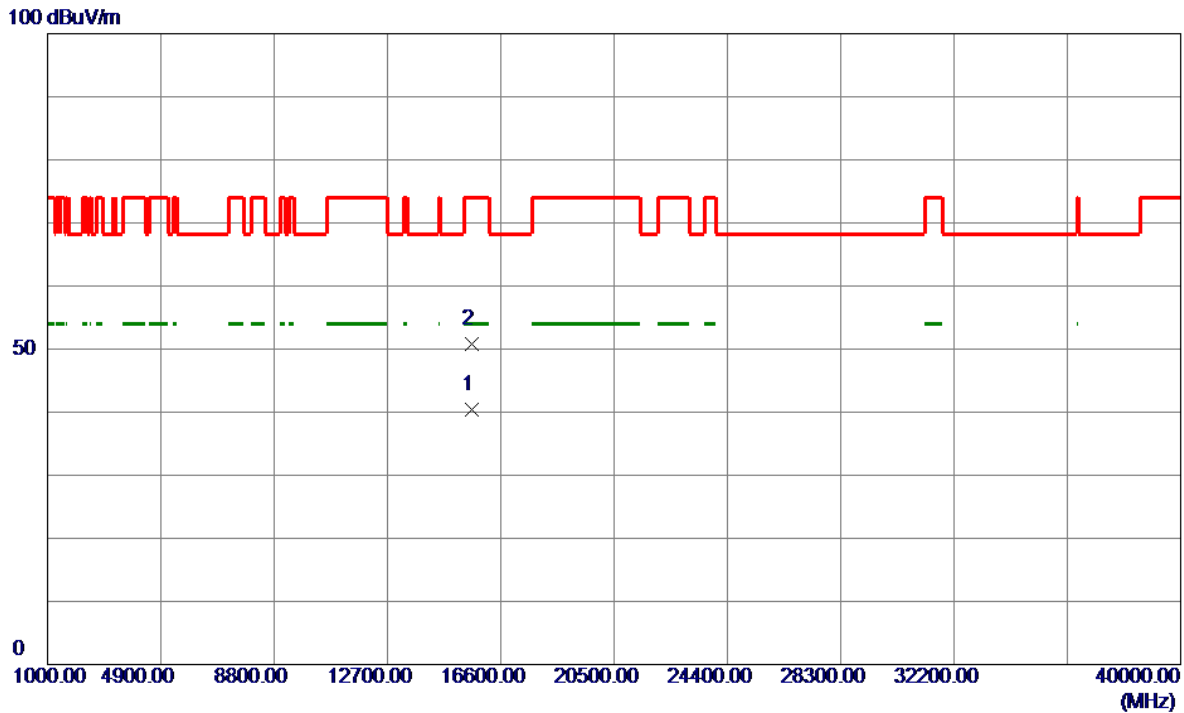


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5203.8500	72.74	12.32	85.06	68.20	16.86	Peak	

**REMARKS:**

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

Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Horizontal
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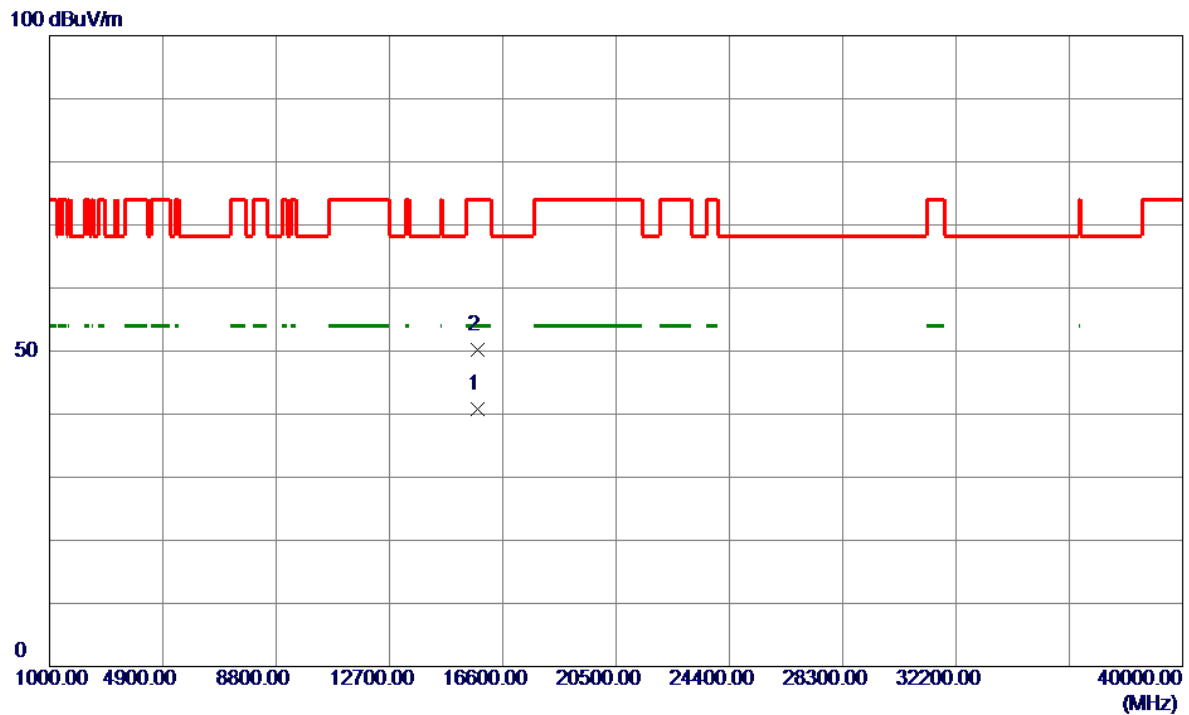


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15583.4750	30.40	9.93	40.33	54.00	-13.67	AVG	
2	15606.1000	40.81	10.02	50.83	74.00	-23.17	Peak	

REMARKS:

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

Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Horizontal
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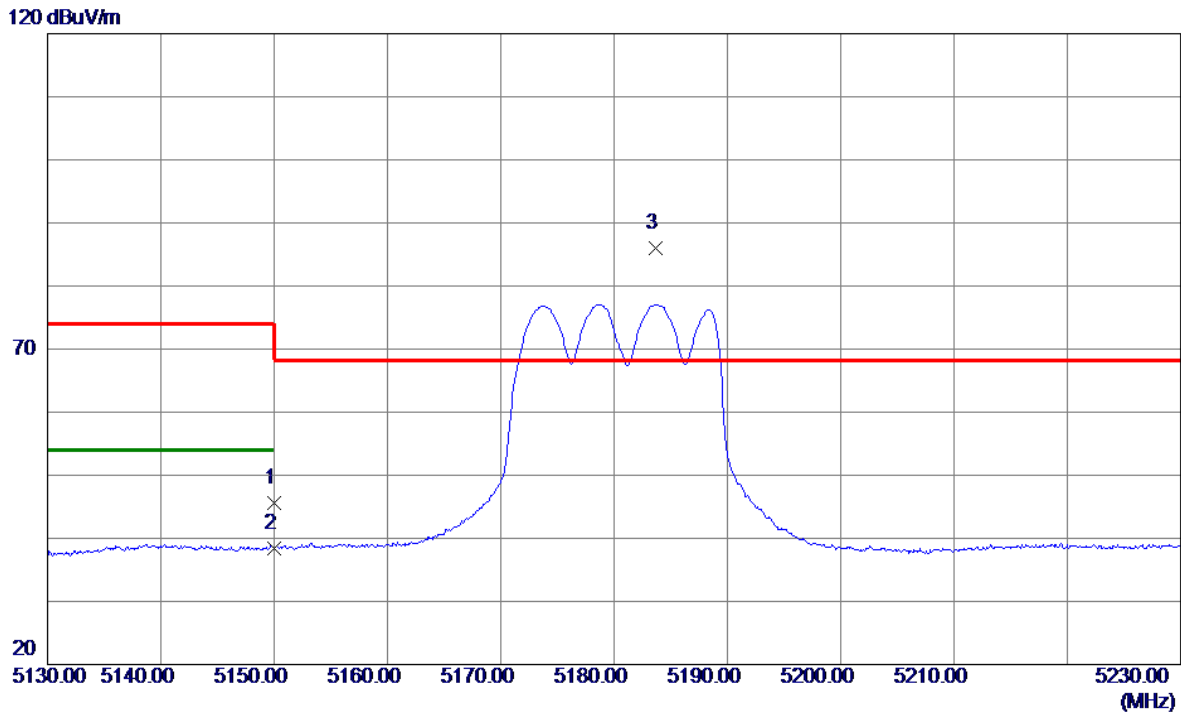


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15733.3000	30.35	10.48	40.83	54.00	-13.17	AVG	
2	15744.5500	39.65	10.52	50.17	74.00	-23.83	Peak	

**REMARKS:**

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Horizontal
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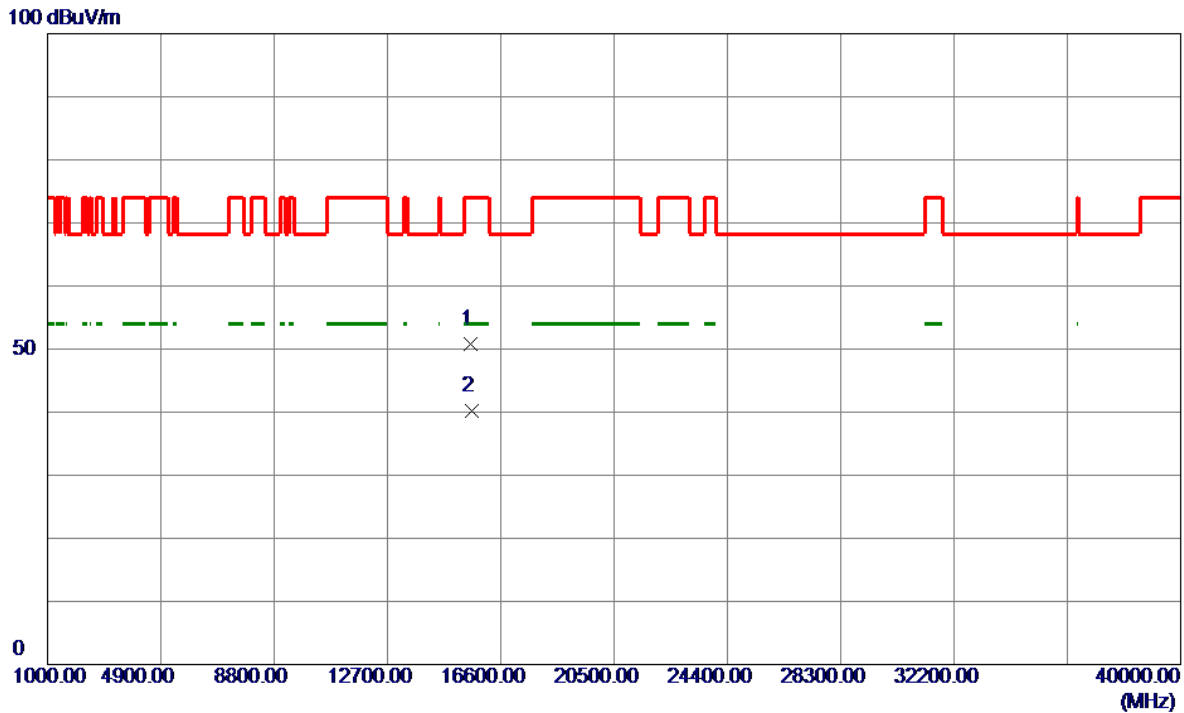


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	33.27	12.32	45.59	74.00	-28.41	Peak	
2	5150.0000	26.14	12.32	38.46	54.00	-15.54	AVG	
3 *	5183.7000	73.63	12.32	85.95	68.20	17.75	Peak	

REMARKS:

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Horizontal
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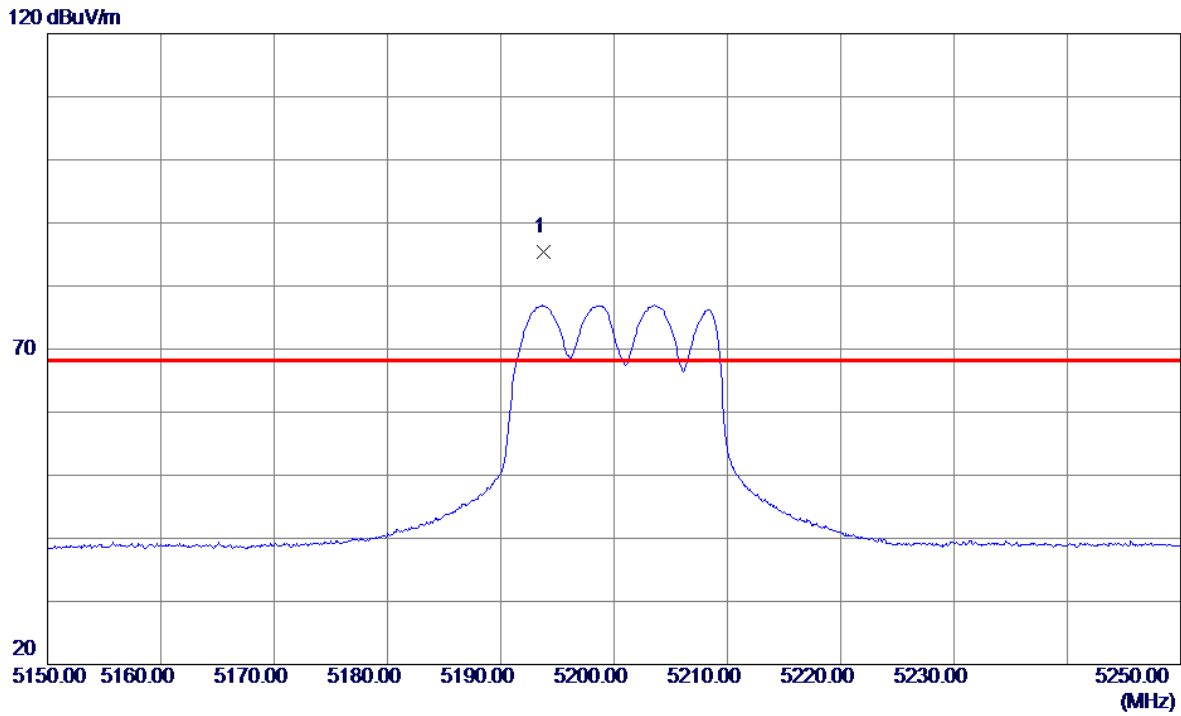


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15580.8360	40.82	9.92	50.74	74.00	-23.26	Peak	
2 *	15587.3930	30.32	9.95	40.27	54.00	-13.73	AVG	

REMARKS:

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Horizontal
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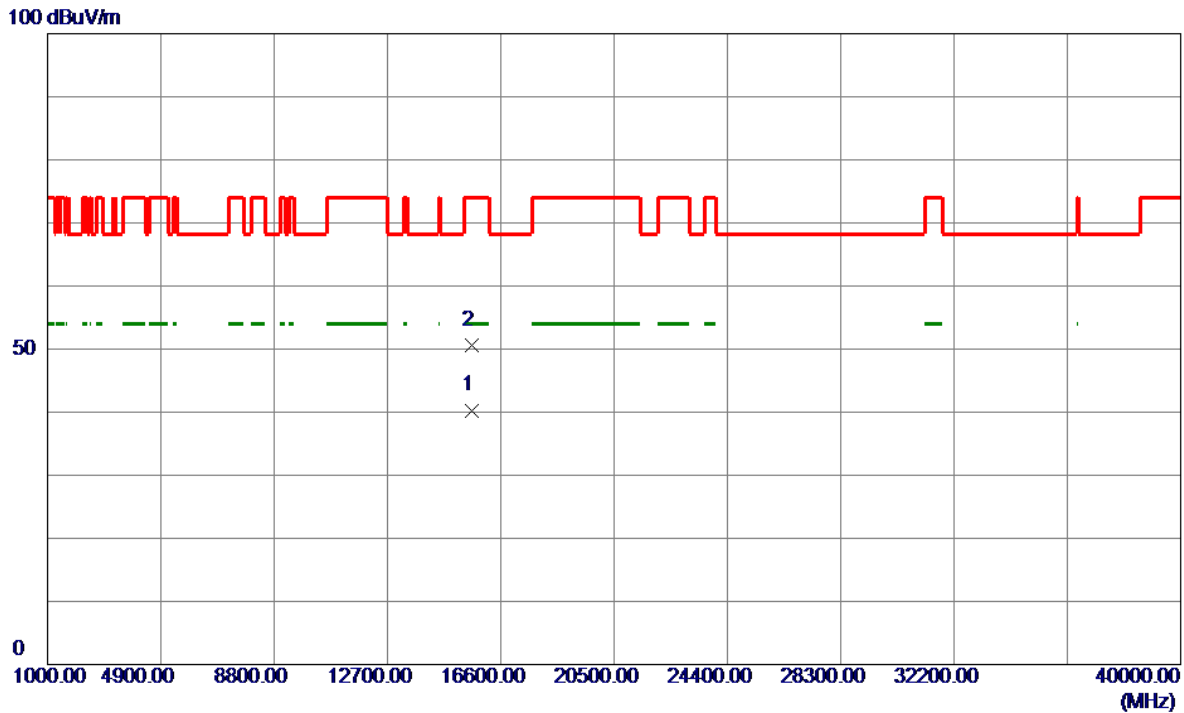


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5193.8000	73.01	12.32	85.33	68.20	17.13	Peak	

**REMARKS:**

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

Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Horizontal
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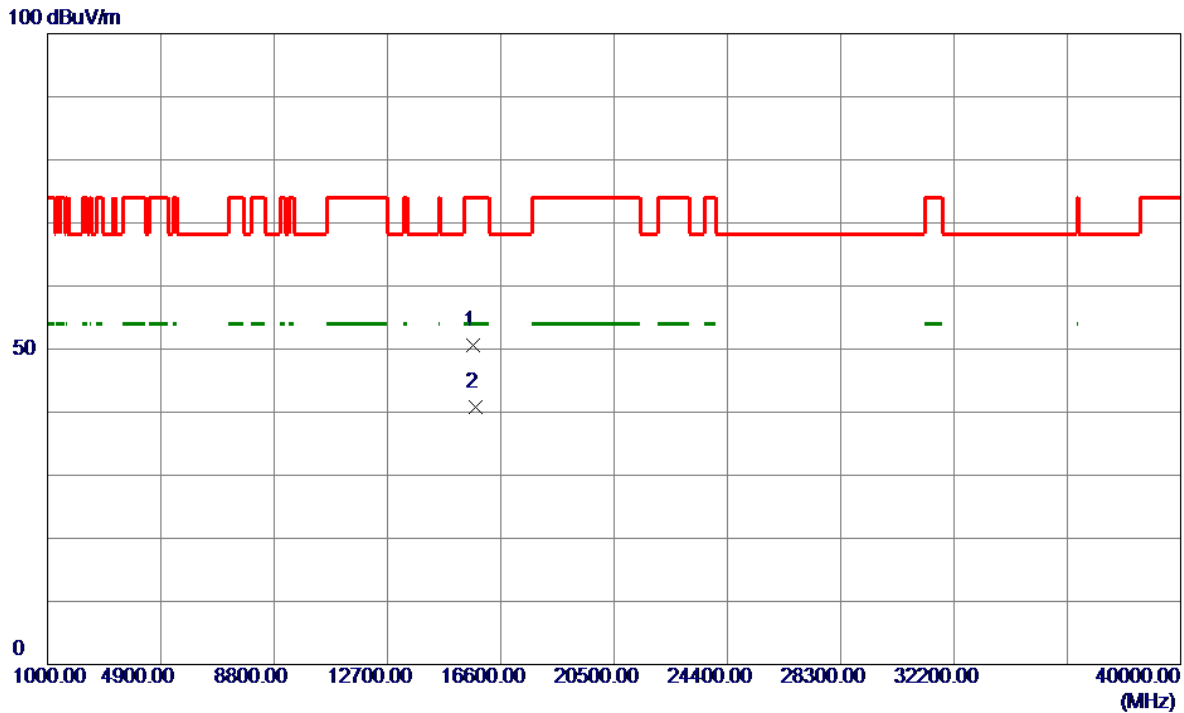
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15592.1150	30.33	9.97	40.30	54.00	-13.70	AVG	
2	15605.1460	40.59	10.01	50.60	74.00	-23.40	Peak	

**REMARKS:**

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



Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Horizontal
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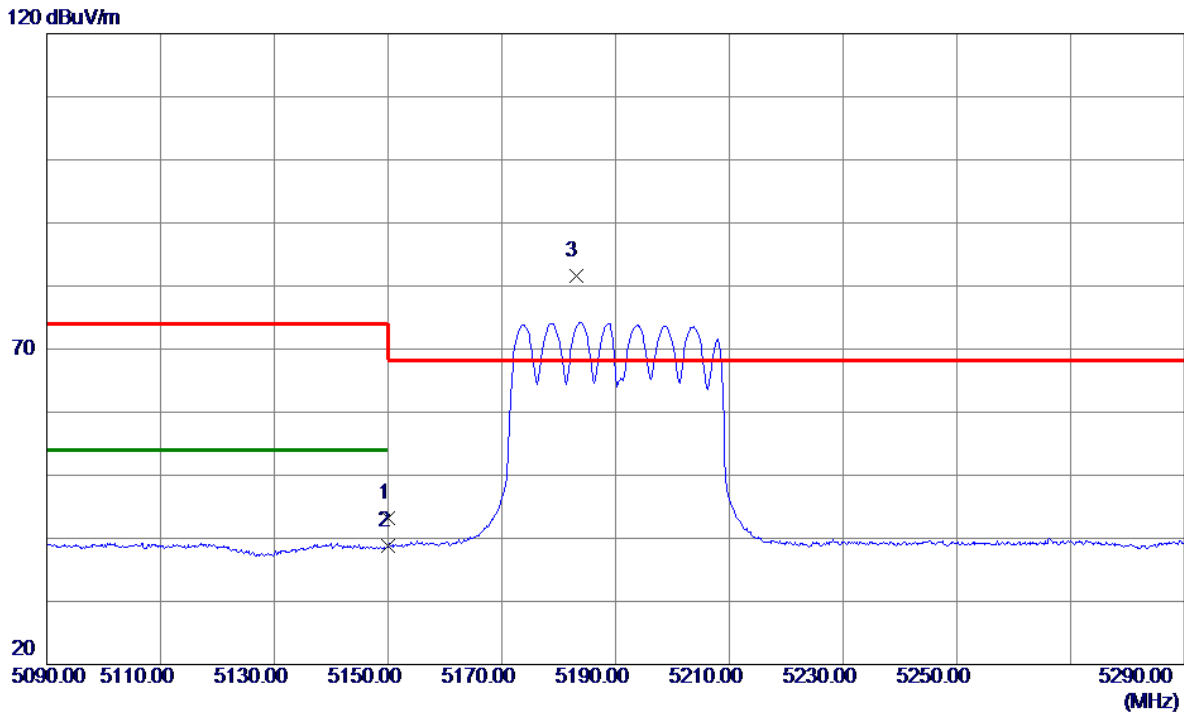


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15667.2120	40.39	10.24	50.63	74.00	-23.37	Peak	
2 *	15747.8050	30.34	10.53	40.87	54.00	-13.13	AVG	

**REMARKS:**

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

Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Horizontal
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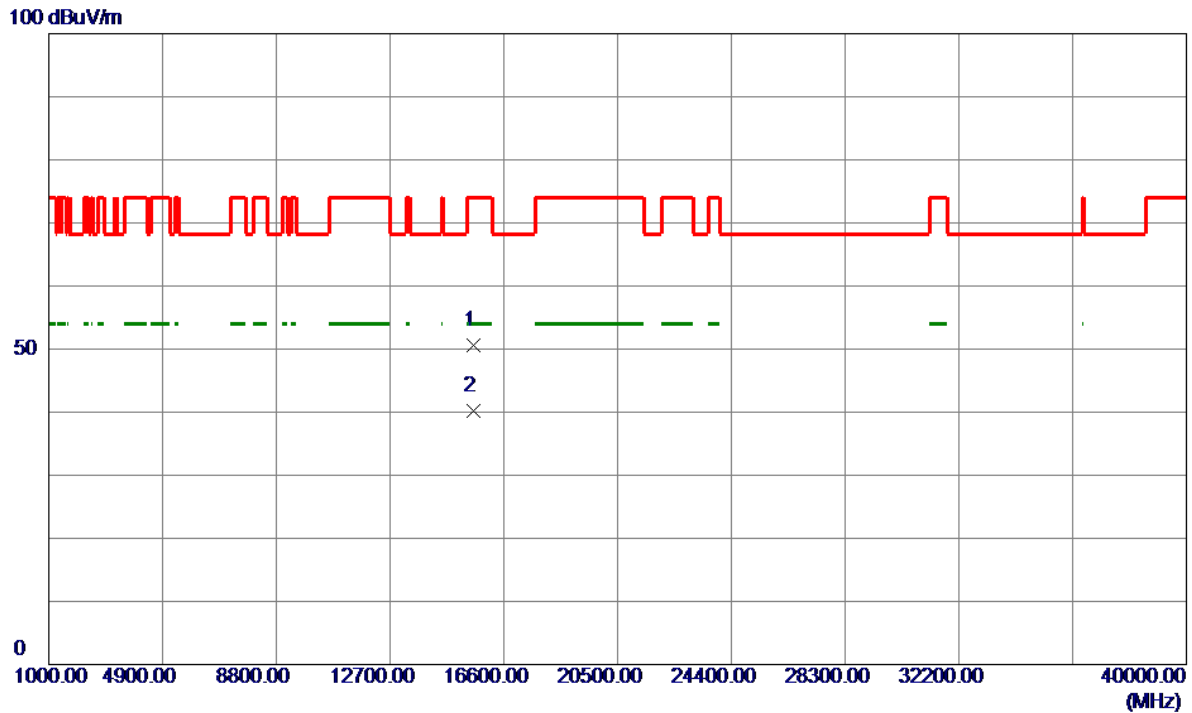


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	30.97	12.32	43.29	74.00	-30.71	Peak	
2	5150.0000	26.41	12.32	38.73	54.00	-15.27	AVG	
3 *	5183.0000	69.23	12.32	81.55	68.20	13.35	Peak	

REMARKS:

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

Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Horizontal
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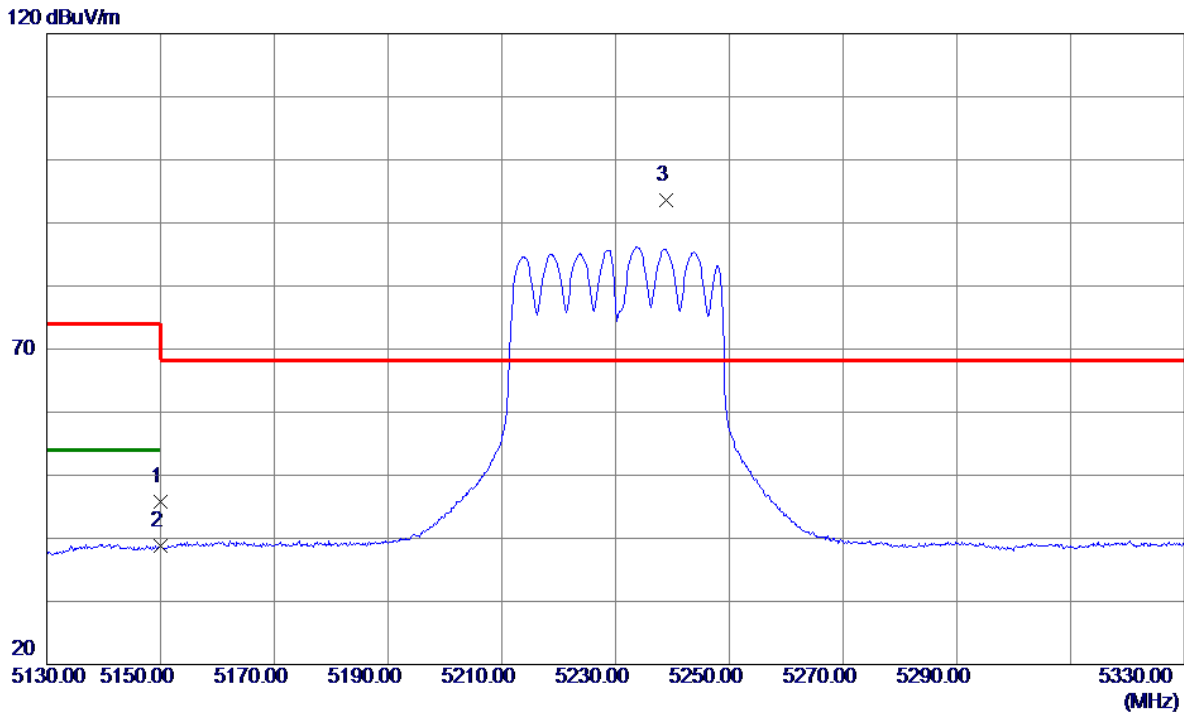


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15545.4000	40.81	9.80	50.61	74.00	-23.39	Peak	
2 *	15560.6000	30.30	9.85	40.15	54.00	-13.85	AVG	

**REMARKS:**

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

Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Horizontal
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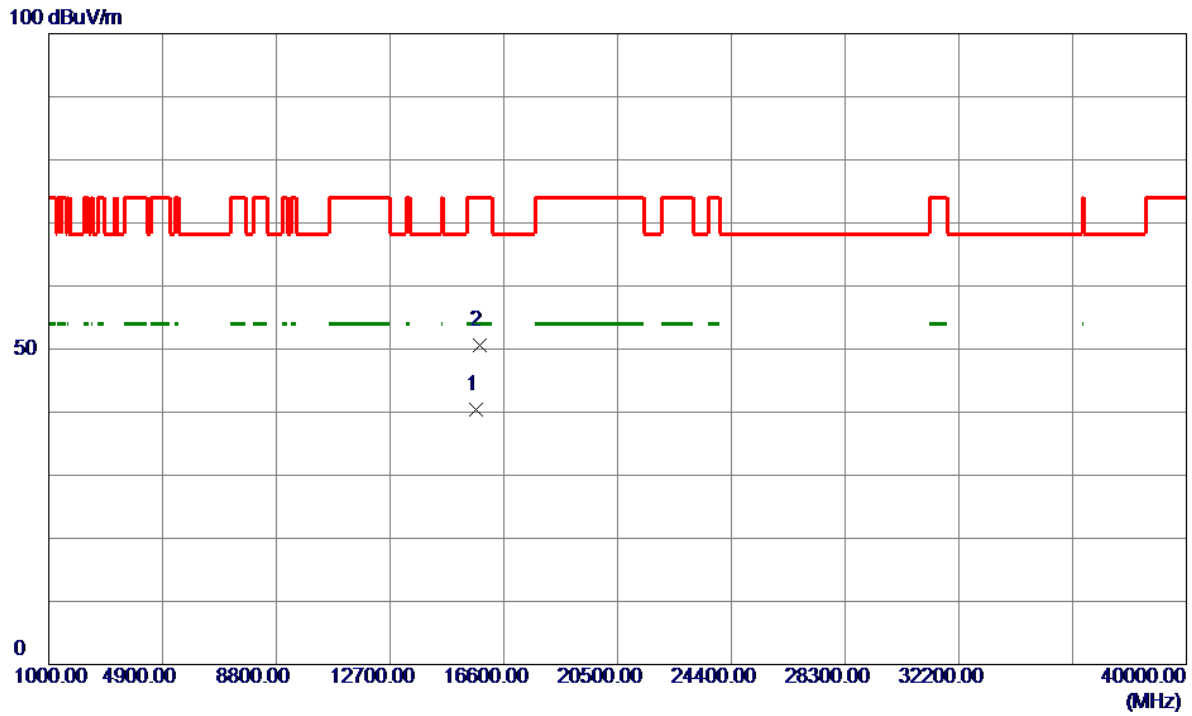


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	33.47	12.32	45.79	74.00	-28.21	Peak	
2	5150.0000	26.55	12.32	38.87	54.00	-15.13	AVG	
3 *	5238.8000	81.37	12.32	93.69	68.20	25.49	Peak	

REMARKS:

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

Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Horizontal
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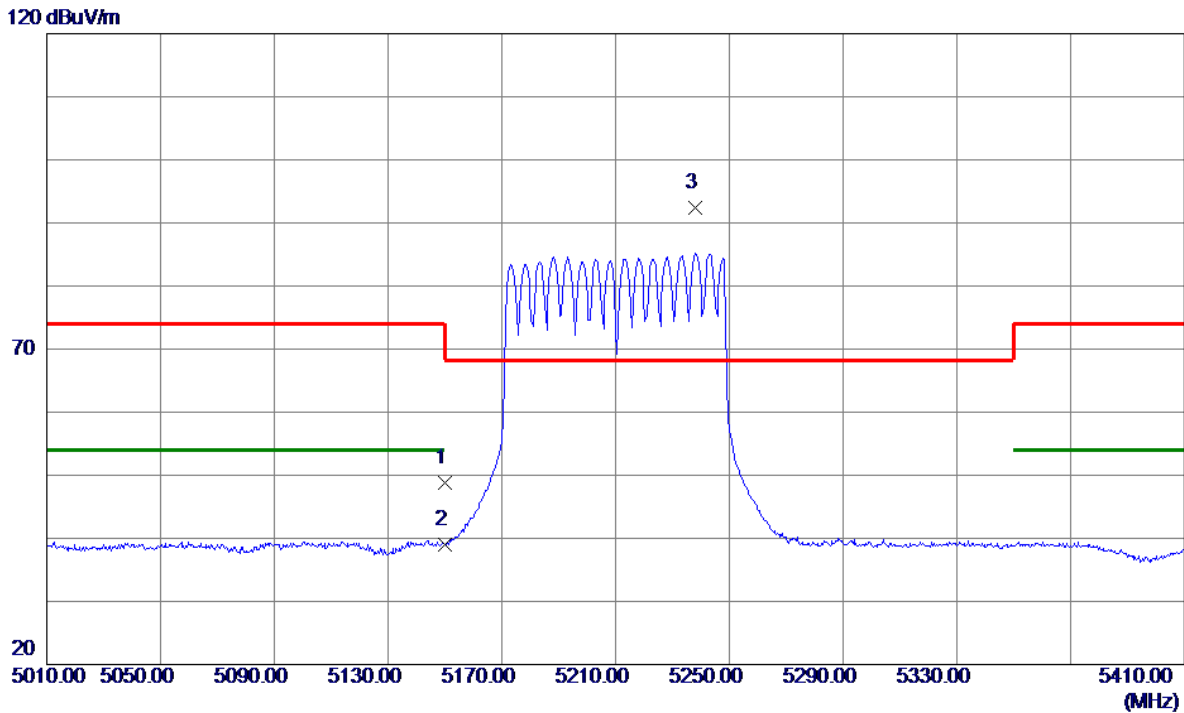


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15662.7000	30.26	10.22	40.48	54.00	-13.52	AVG	
2	15772.3000	40.00	10.62	50.62	74.00	-23.38	Peak	

**REMARKS:**

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

Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Horizontal
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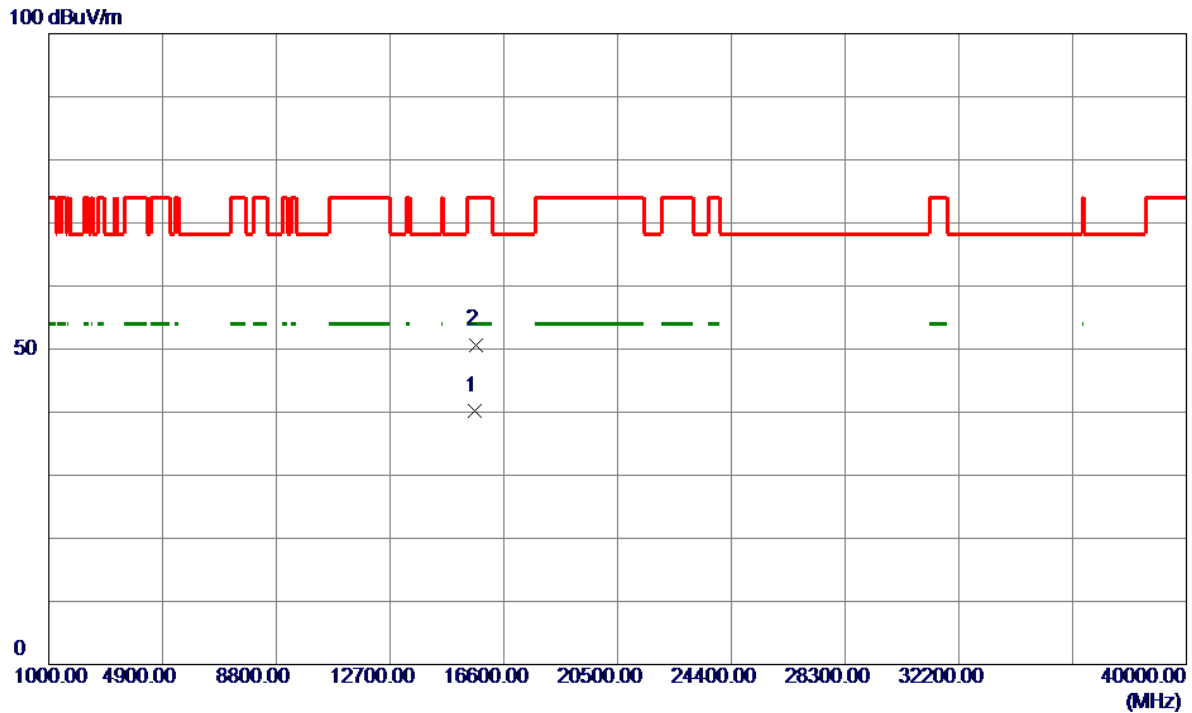


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	36.57	12.32	48.89	74.00	-25.11	Peak	
2	5150.0000	26.64	12.32	38.96	54.00	-15.04	AVG	
3 *	5238.0000	80.10	12.32	92.42	68.20	24.22	Peak	

**REMARKS:**

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

Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Horizontal
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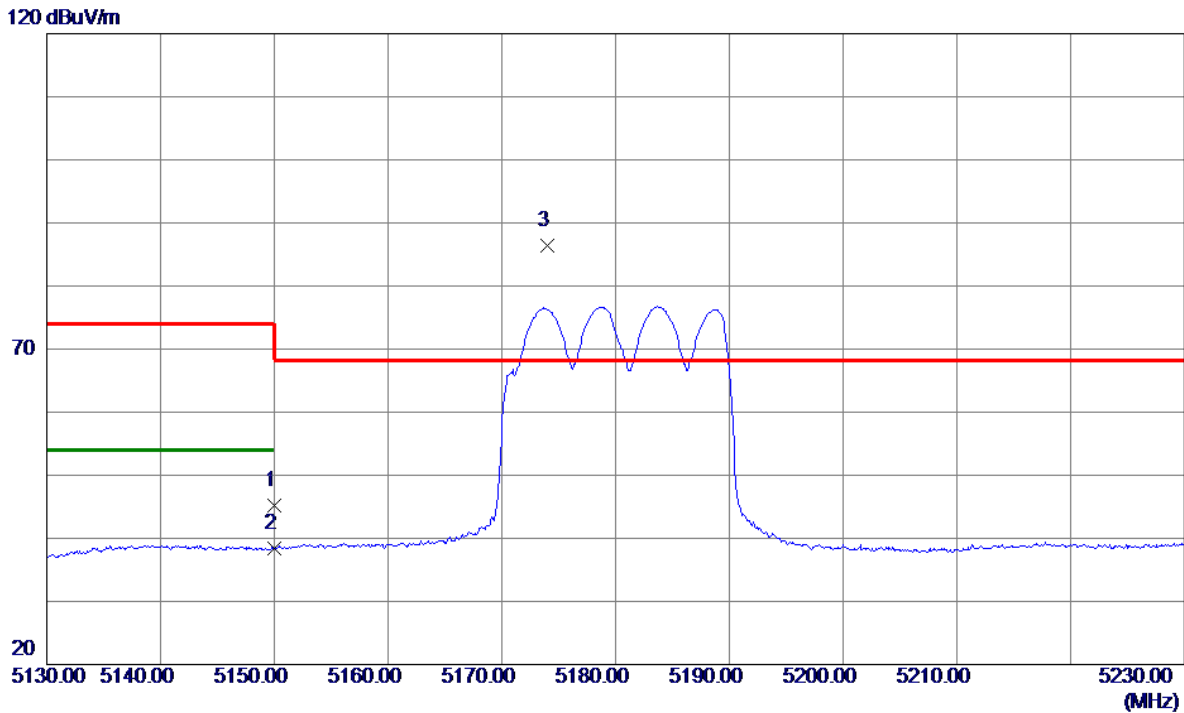


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15586.3000	30.33	9.94	40.27	54.00	-13.73	AVG	
2	15653.4000	40.51	10.19	50.70	74.00	-23.30	Peak	

**REMARKS:**

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

Test Mode	UNII-1_TX AX(HE20) Mode 5180 MHz	Polarization	Horizontal
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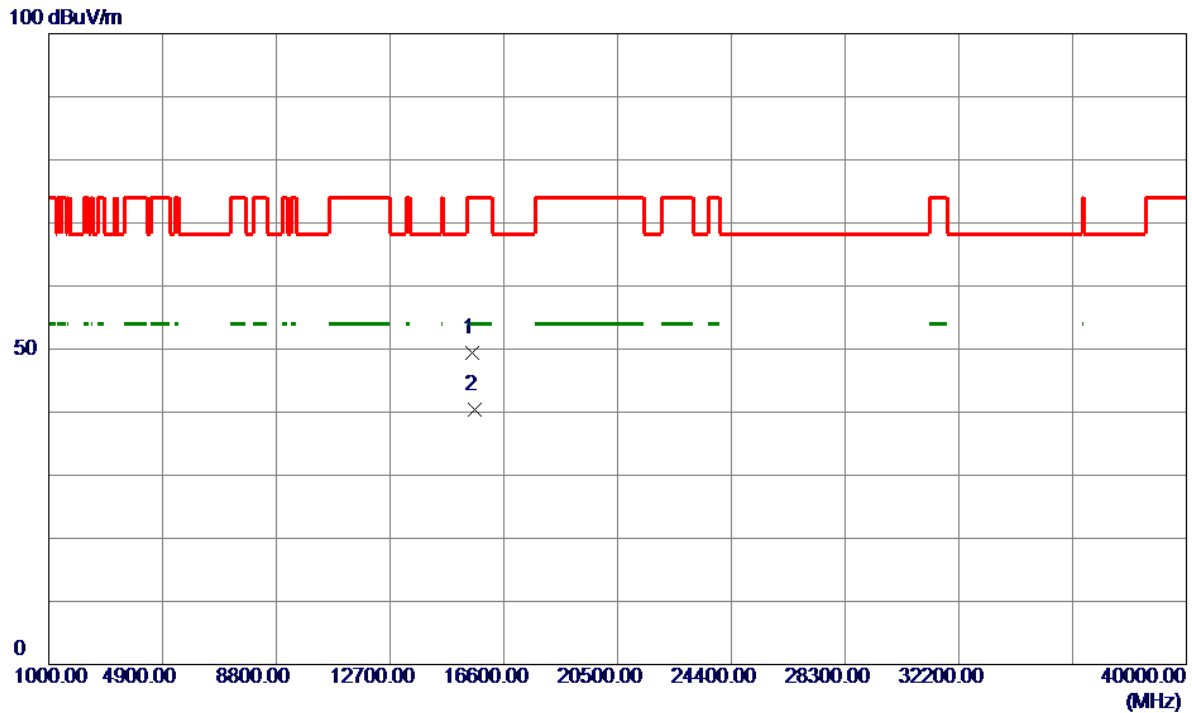
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	32.91	12.32	45.23	74.00	-28.77	Peak	
2	5150.0000	26.09	12.32	38.41	54.00	-15.59	AVG	
3 *	5174.0000	74.01	12.32	86.33	68.20	18.13	Peak	

**REMARKS:**

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



Test Mode	UNII-1_TX AX(HE20) Mode 5180 MHz	Polarization	Horizontal
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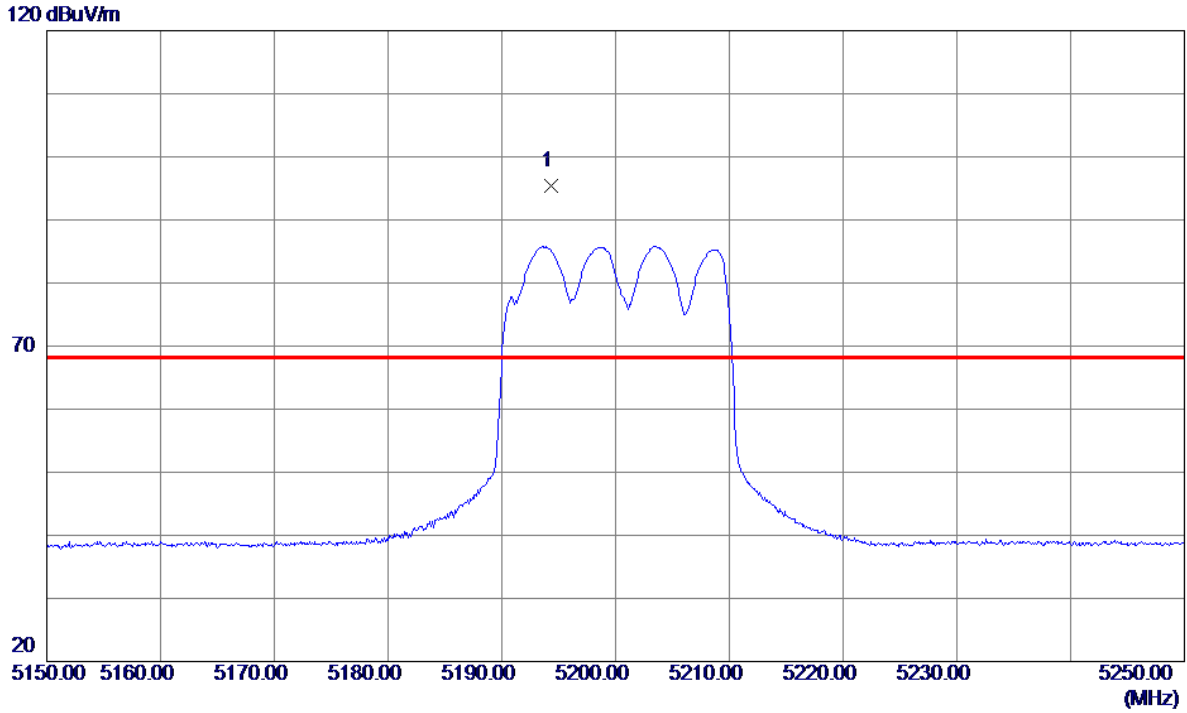


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15506.3020	39.71	9.65	49.36	74.00	-24.64	Peak	
2 *	15585.9820	30.41	9.94	40.35	54.00	-13.65	AVG	

REMARKS:

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

Test Mode	UNII-1_TX AX(HE20) Mode 5200 MHz	Polarization	Horizontal
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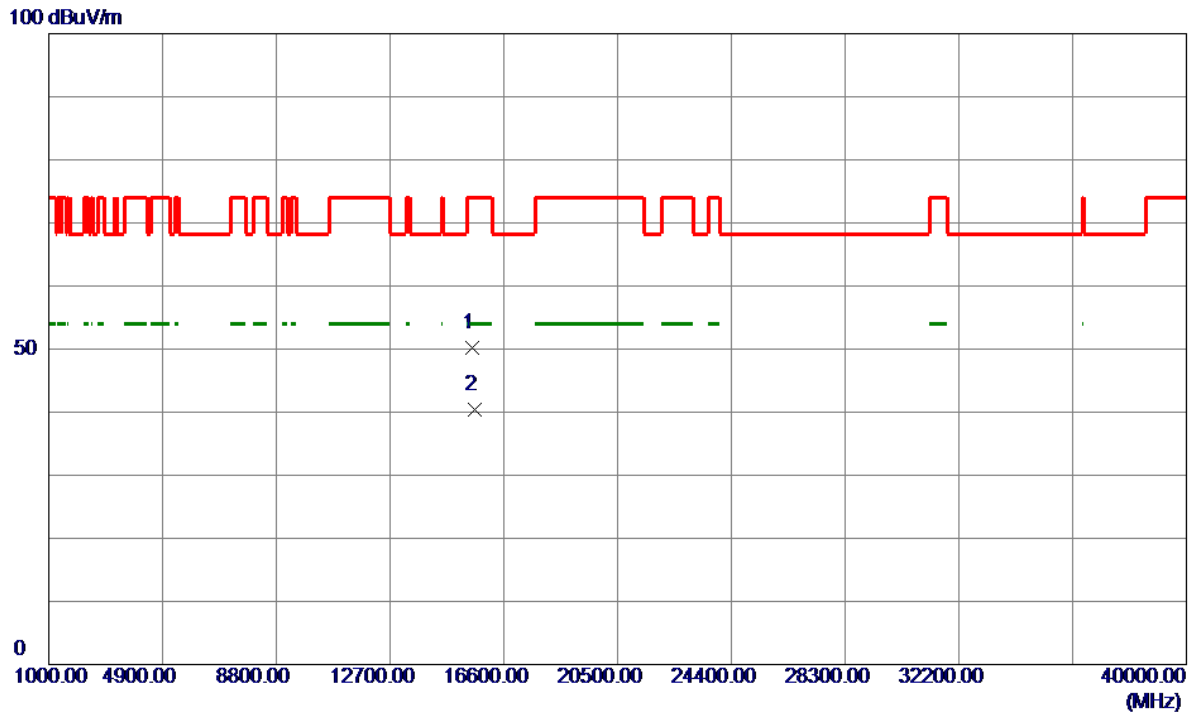


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5194.3000	83.10	12.32	95.42	68.20	27.22	Peak	

REMARKS:

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

Test Mode	UNII-1_TX AX(HE20) Mode 5200 MHz	Polarization	Horizontal
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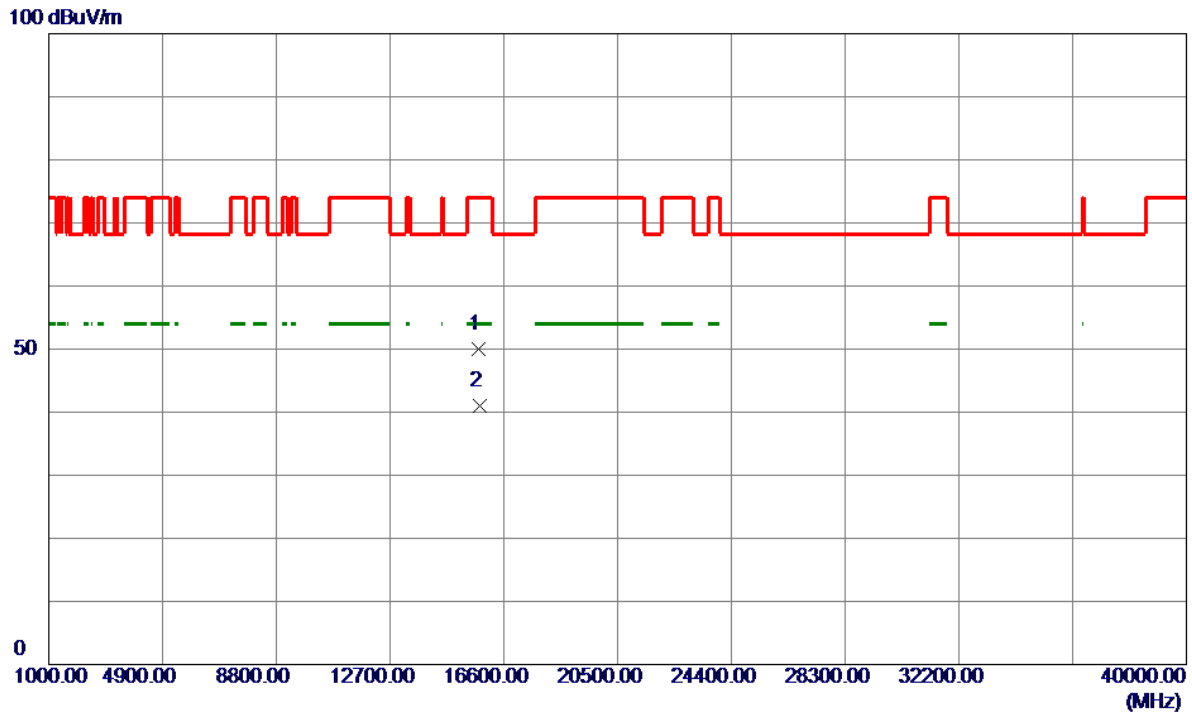


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15525.7150	40.54	9.72	50.26	74.00	-23.74	Peak	
2 *	15616.1850	30.41	10.05	40.46	54.00	-13.54	AVG	

**REMARKS:**

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

Test Mode	UNII-1_TX AX(HE20) Mode 5240 MHz	Polarization	Horizontal
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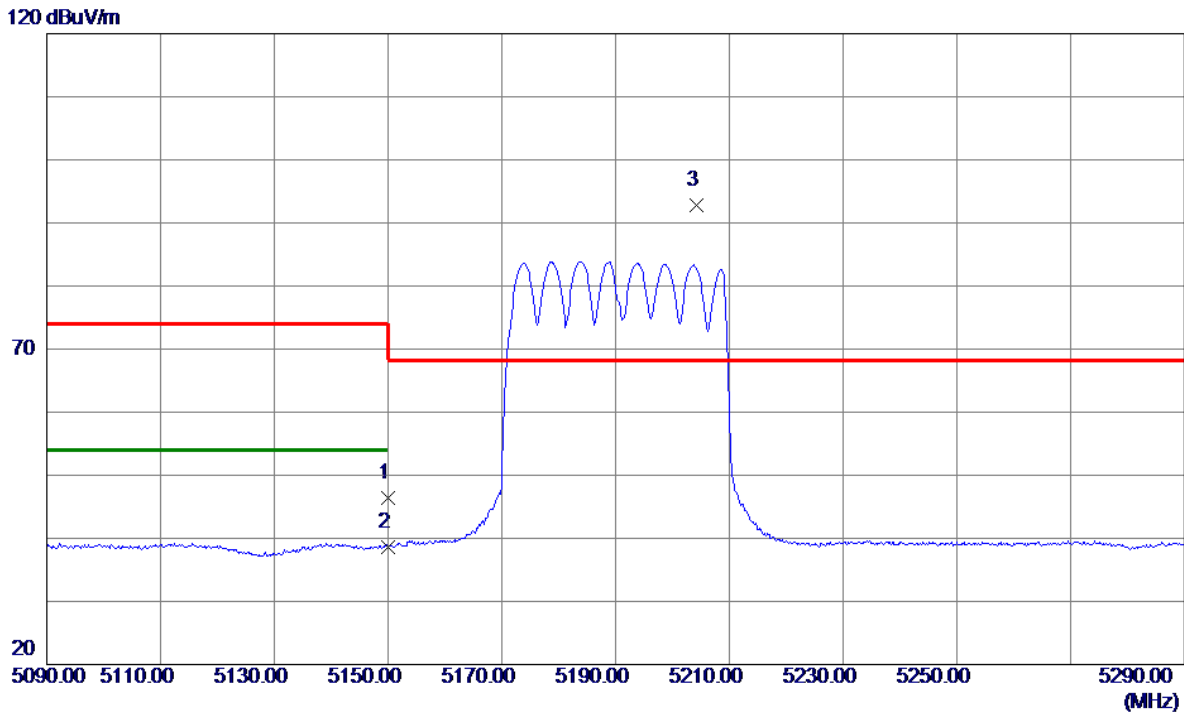


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15754.4450	39.35	10.56	49.91	74.00	-24.09	Peak	
2 *	15761.2510	30.42	10.58	41.00	54.00	-13.00	AVG	

**REMARKS:**

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

Test Mode	UNII-1_TX AX(HE40) Mode 5190 MHz	Polarization	Horizontal
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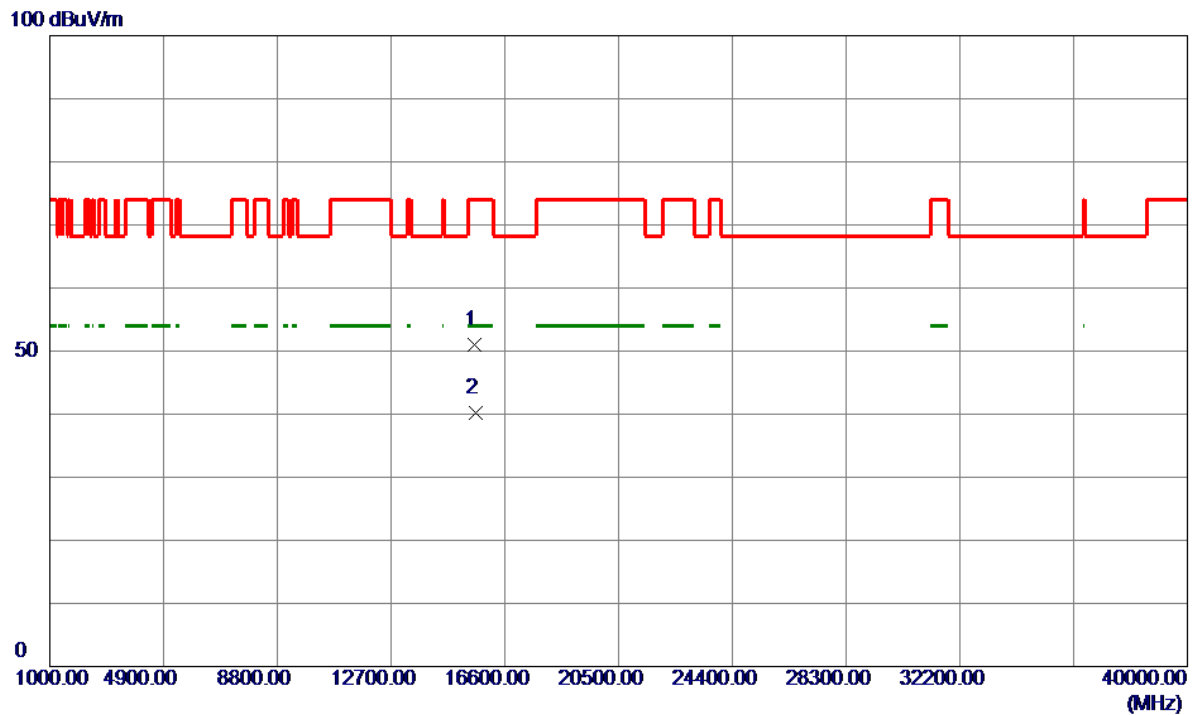


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	34.11	12.32	46.43	74.00	-27.57	Peak	
2	5150.0000	26.24	12.32	38.56	54.00	-15.44	AVG	
3 *	5204.3000	80.43	12.32	92.75	68.20	24.55	Peak	

**REMARKS:**

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

Test Mode	UNII-1_TX AX(HE40) Mode 5190 MHz	Polarization	Horizontal
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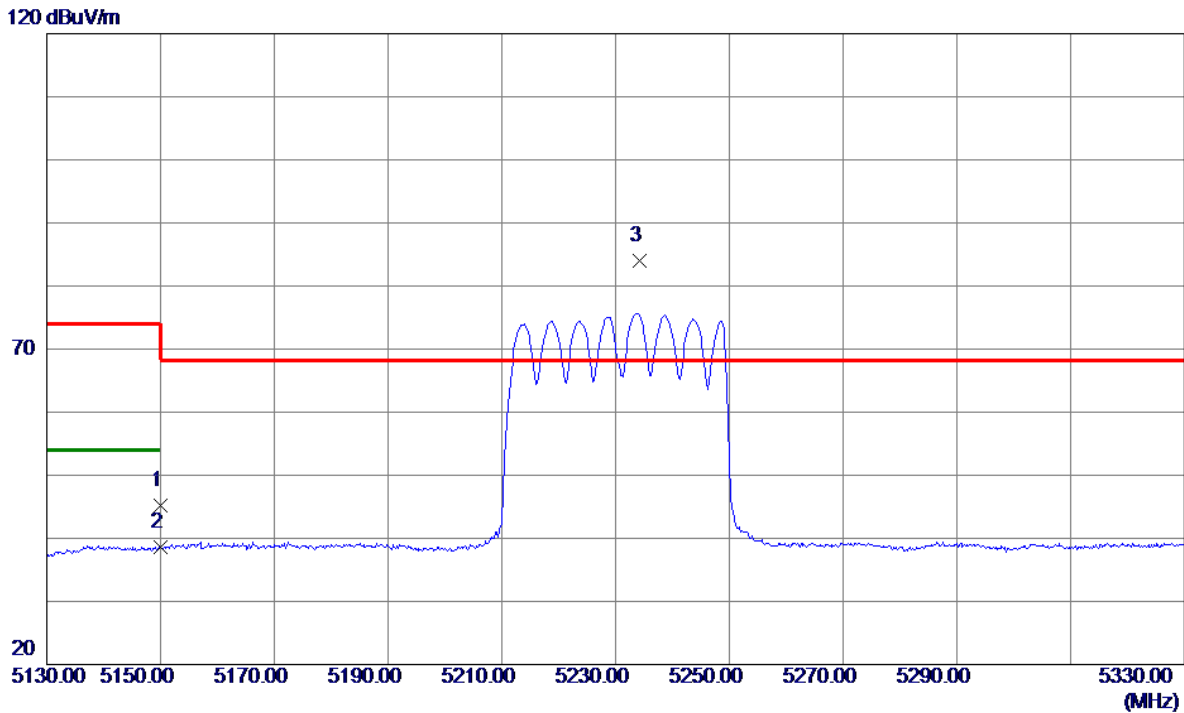


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15573.5000	41.10	9.90	51.00	74.00	-23.00	Peak	
2 *	15595.4000	30.22	9.98	40.20	54.00	-13.80	AVG	

**REMARKS:**

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

Test Mode	UNII-1_TX AX(HE40) Mode 5230 MHz	Polarization	Horizontal
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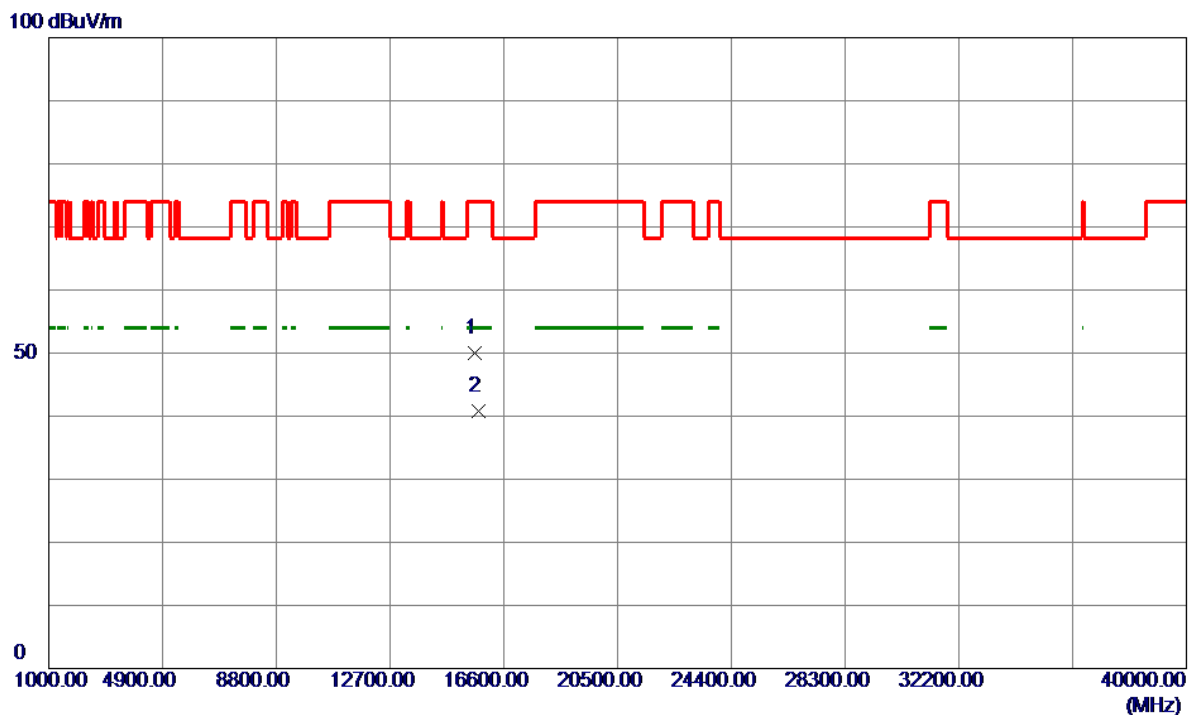


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	32.84	12.32	45.16	74.00	-28.84	Peak	
2	5150.0000	26.20	12.32	38.52	54.00	-15.48	AVG	
3 *	5234.3000	71.67	12.32	83.99	68.20	15.79	Peak	

REMARKS:

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

Test Mode	UNII-1_TX AX(HE40) Mode 5230 MHz	Polarization	Horizontal
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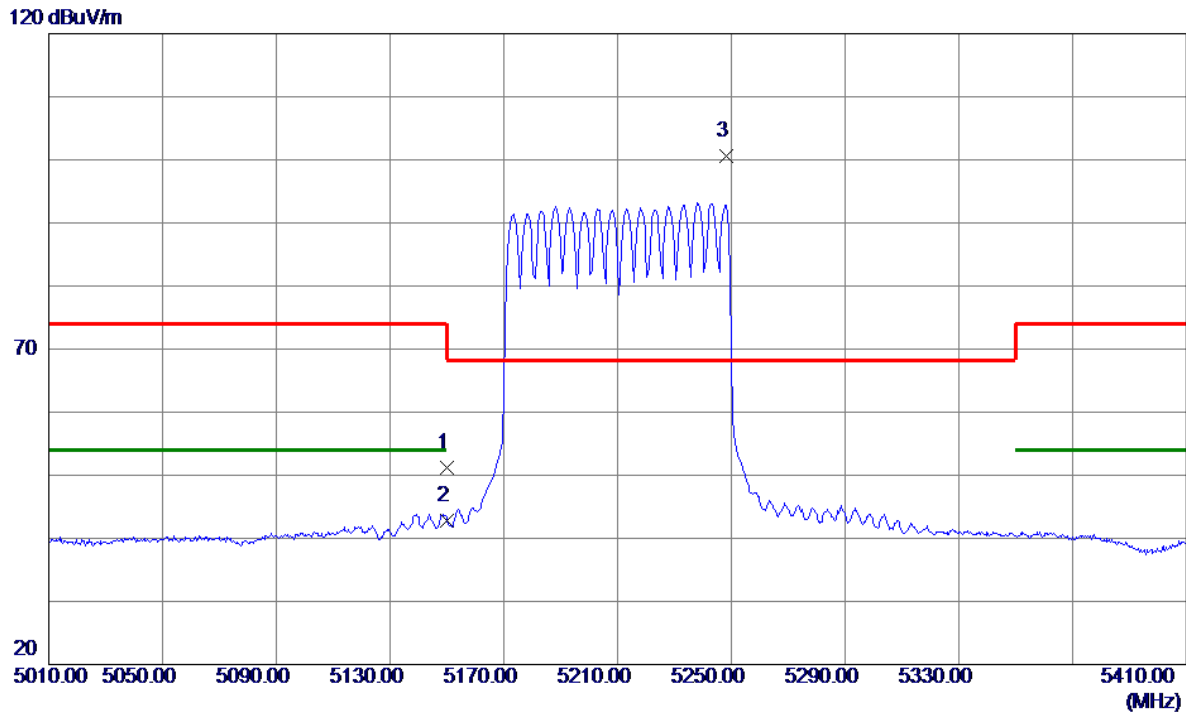
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15592.3000	40.09	9.97	50.06	74.00	-23.94	Peak	
2 *	15752.5000	30.32	10.55	40.87	54.00	-13.13	AVG	

REMARKS:

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



Test Mode	UNII-1_TX AX(HE80) Mode 5210 MHz	Polarization	Horizontal
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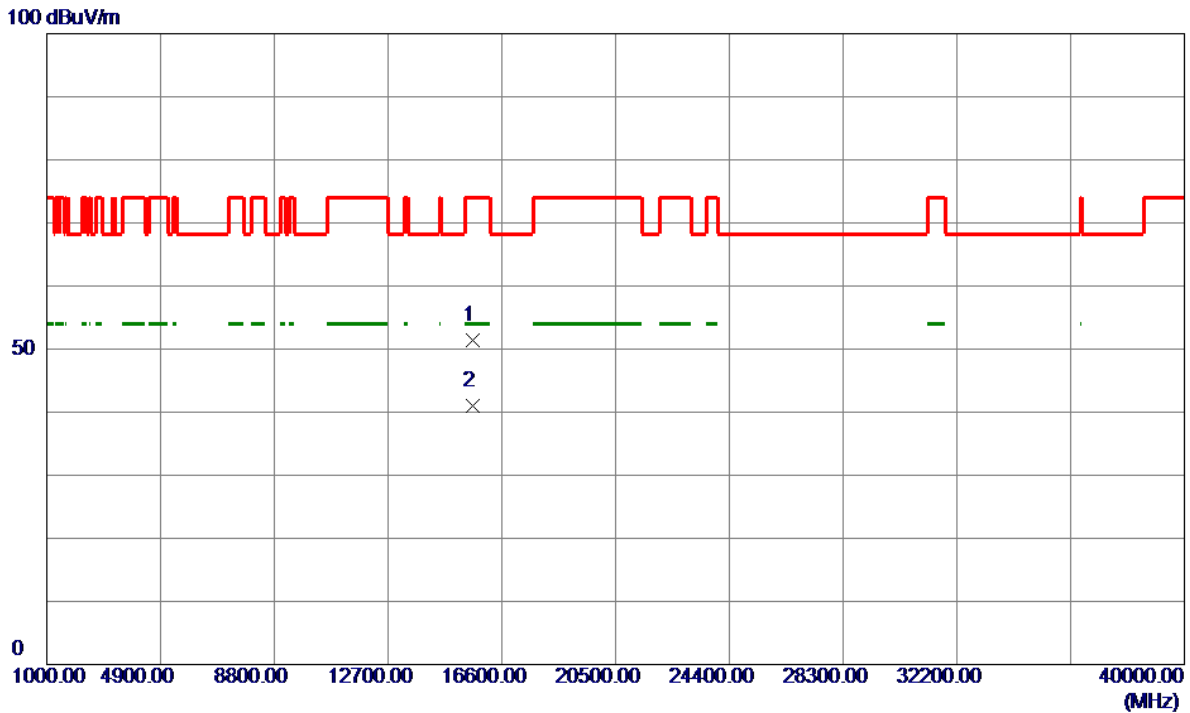


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	38.85	12.32	51.17	74.00	-22.83	Peak	
2	5150.0000	30.50	12.32	42.82	54.00	-11.18	AVG	
3 *	5248.4000	88.22	12.32	100.54	68.20	32.34	Peak	

**REMARKS:**

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

Test Mode	UNII-1_TX AX(HE80) Mode 5210 MHz	Polarization	Horizontal
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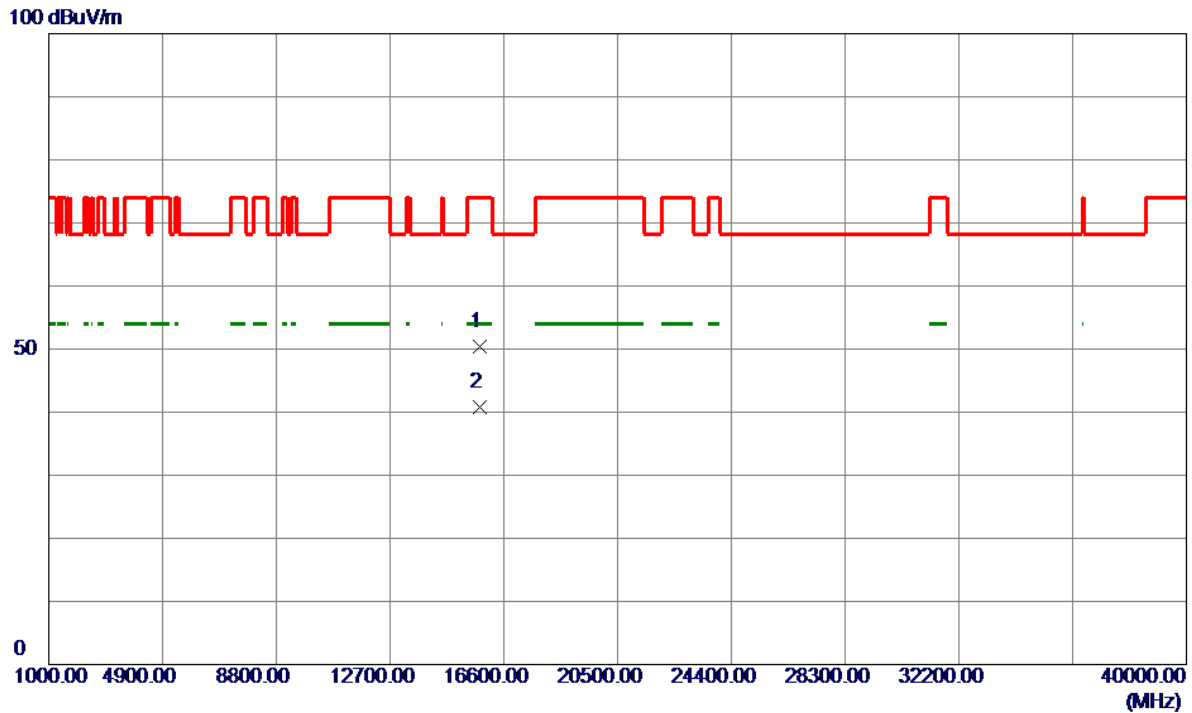


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15586.0000	41.51	9.94	51.45	74.00	-22.55	Peak	
2 *	15586.1000	31.06	9.94	41.00	54.00	-13.00	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX A Mode 5260 MHz	Polarization	Horizontal
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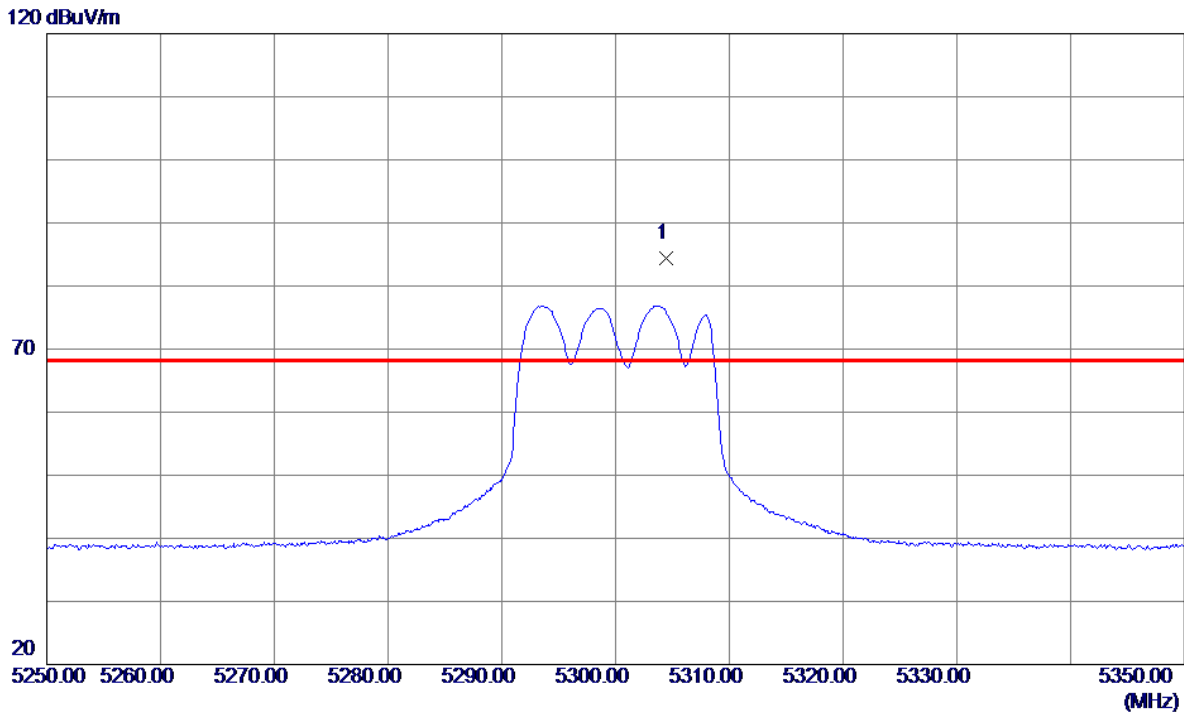


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15768.4000	39.81	10.61	50.42	74.00	-23.58	Peak	
2 *	15780.9500	30.24	10.65	40.89	54.00	-13.11	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX A Mode 5300 MHz	Polarization	Horizontal
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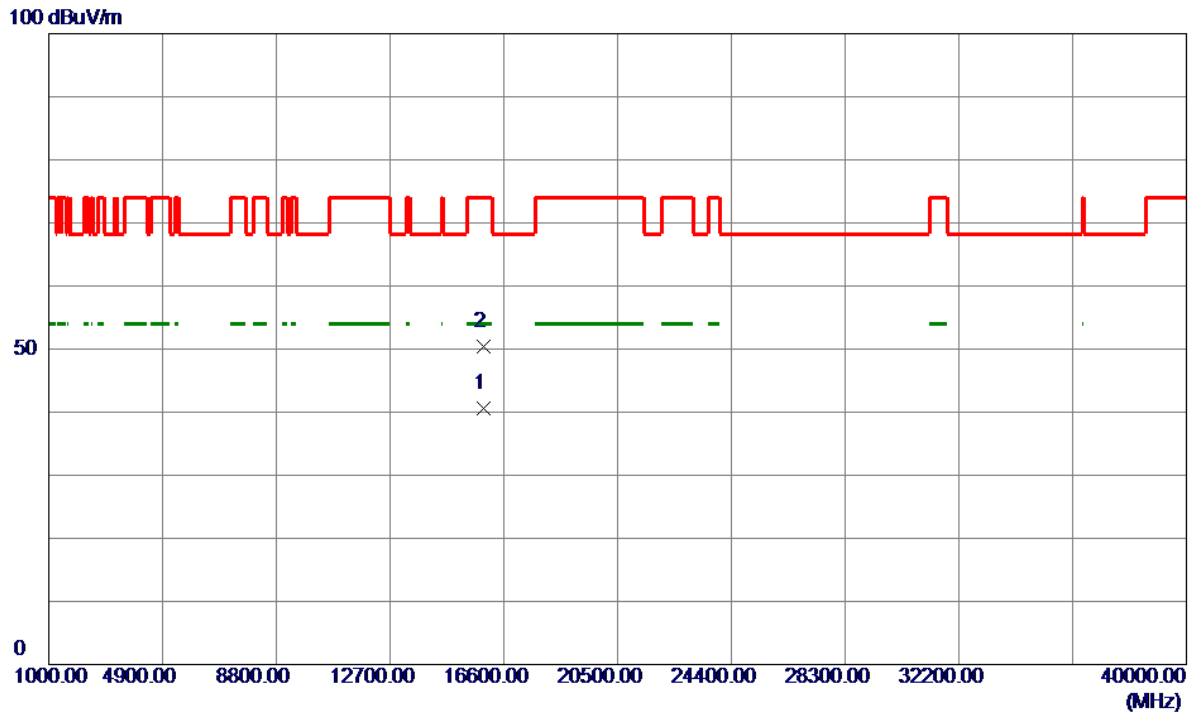


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5304.4000	72.11	12.33	84.44	68.20	16.24	Peak	

REMARKS:

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

Test Mode	UNII-2A_TX A Mode 5300 MHz	Polarization	Horizontal
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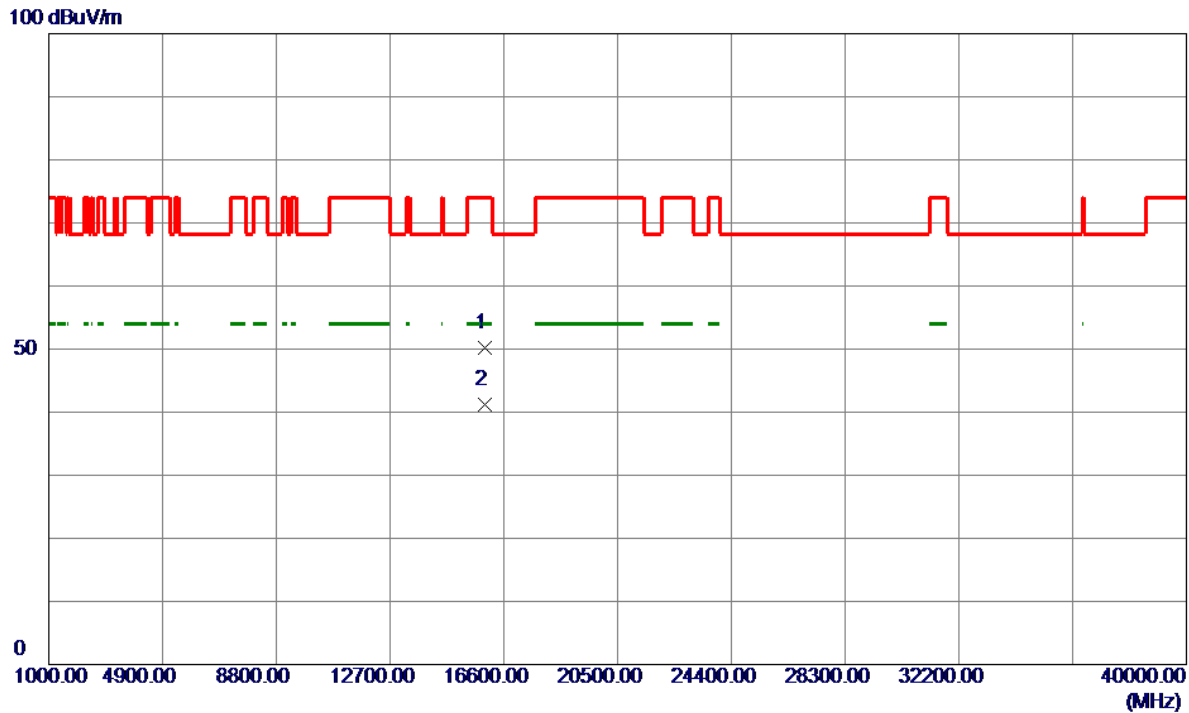


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15912.1750	29.49	11.13	40.62	54.00	-13.38	AVG	
2	15912.9250	39.27	11.13	50.40	74.00	-23.60	Peak	

REMARKS:

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

Test Mode	UNII-2A_TX A Mode 5320 MHz	Polarization	Vertical
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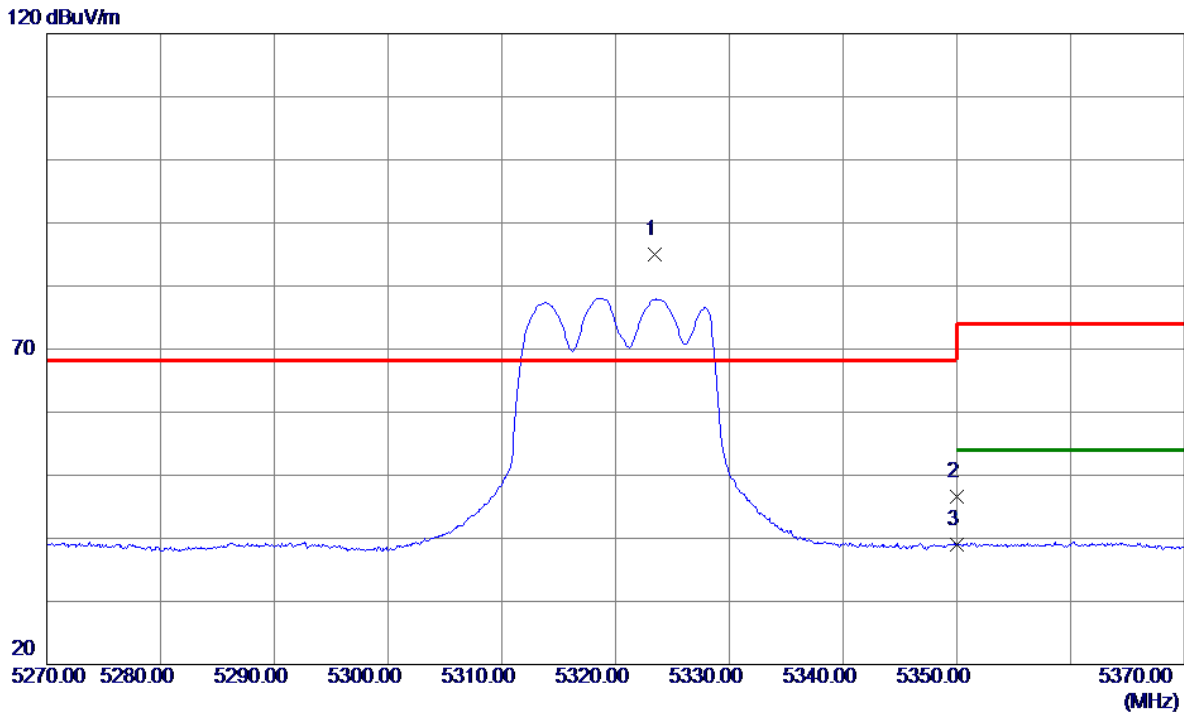


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15938.4000	38.93	11.23	50.16	74.00	-23.84	Peak	
2 *	15946.9000	29.89	11.26	41.15	54.00	-12.85	AVG	

**REMARKS:**

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

Test Mode	UNII-2A_TX A Mode 5320 MHz	Polarization	Horizontal
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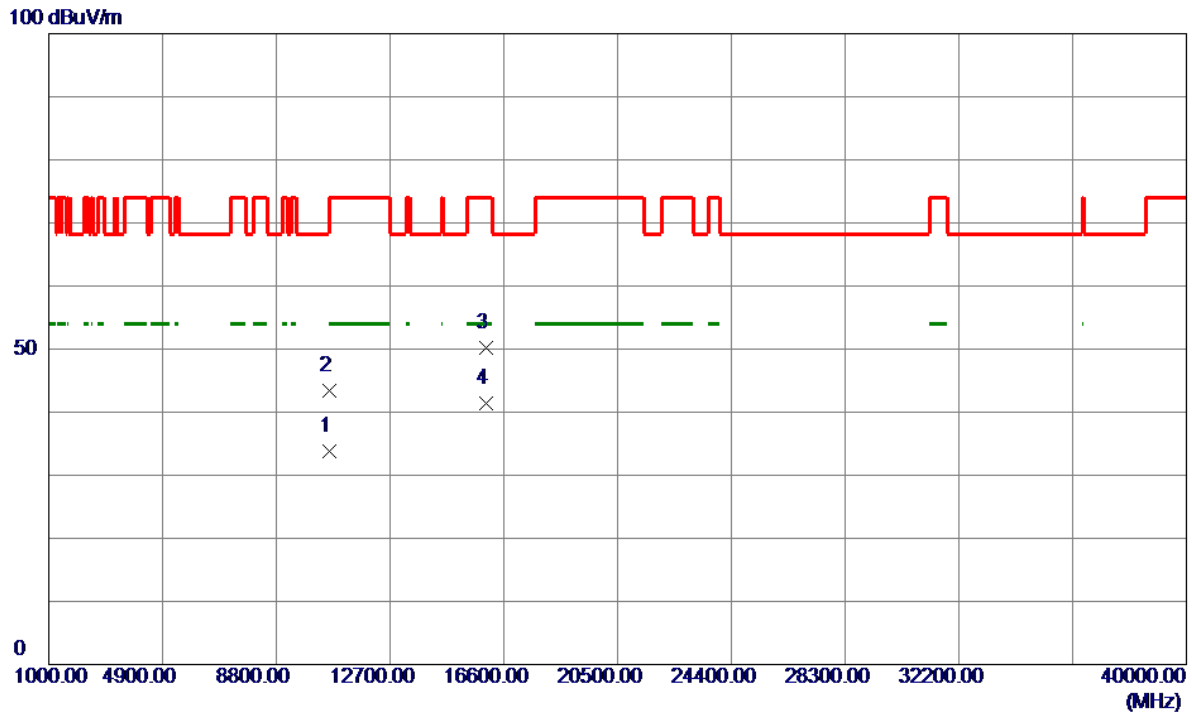


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5323.4000	72.72	12.33	85.05	68.20	16.85	Peak	
2	5350.0000	34.21	12.33	46.54	74.00	-27.46	Peak	
3	5350.0000	26.65	12.33	38.98	54.00	-15.02	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX A Mode 5320 MHz	Polarization	Horizontal
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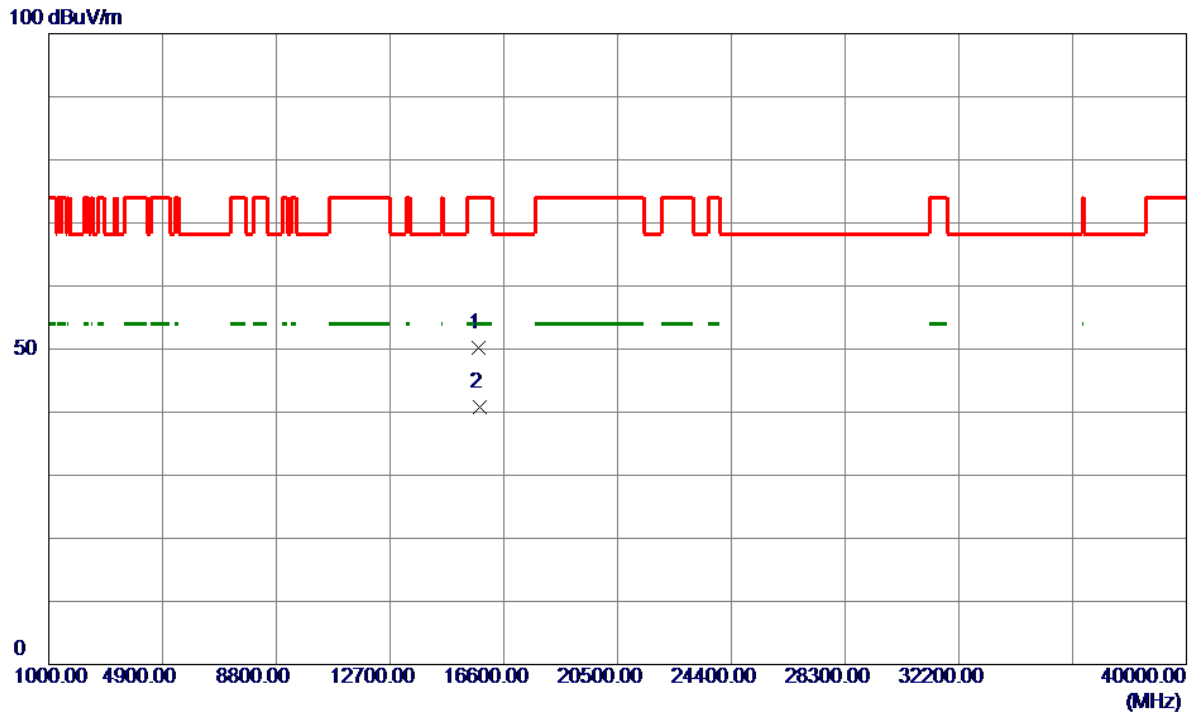
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10629.6750	27.54	6.24	33.78	54.00	-20.22	AVG	
2	10639.5250	37.24	6.23	43.47	74.00	-30.53	Peak	
3	15980.1750	38.86	11.38	50.24	74.00	-23.76	Peak	
4 *	15983.7000	30.04	11.39	41.43	54.00	-12.57	AVG	

REMARKS:

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



Test Mode	UNII-2A_TX AC(VHT20) Mode 5260 MHz	Polarization	Horizontal
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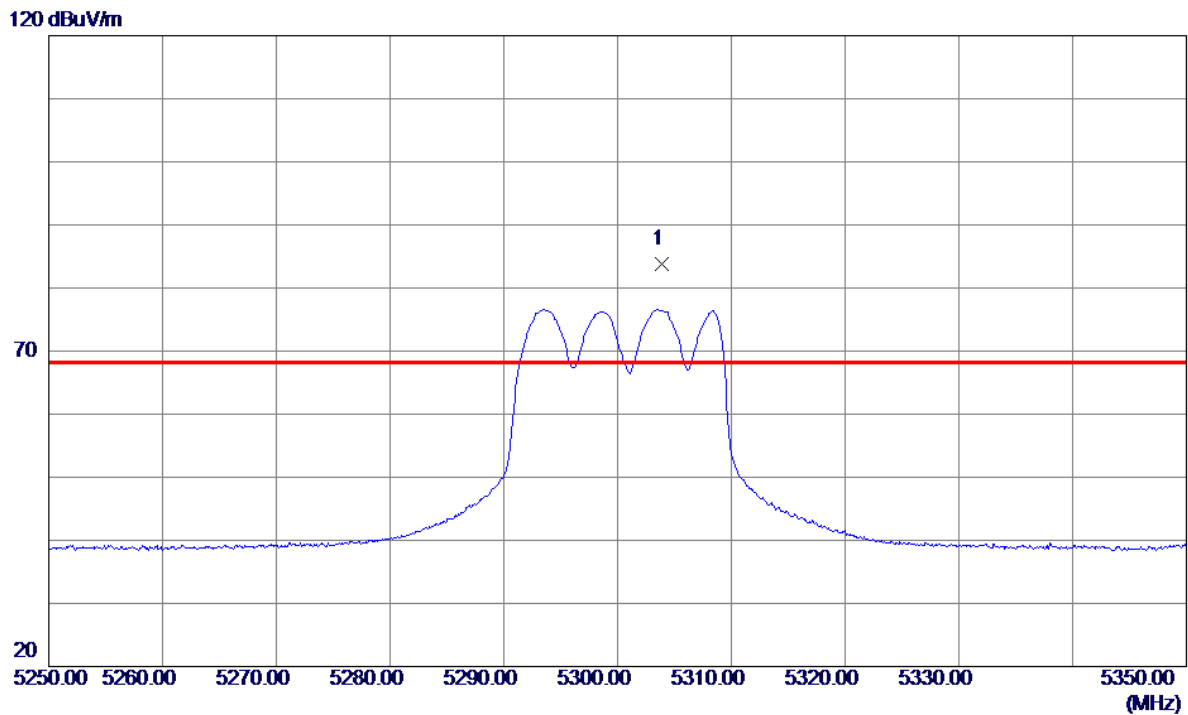


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15754.9340	39.68	10.56	50.24	74.00	-23.76	Peak	
2 *	15759.6650	30.26	10.58	40.84	54.00	-13.16	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX AC(VHT20) Mode 5300 MHz	Polarization	Horizontal
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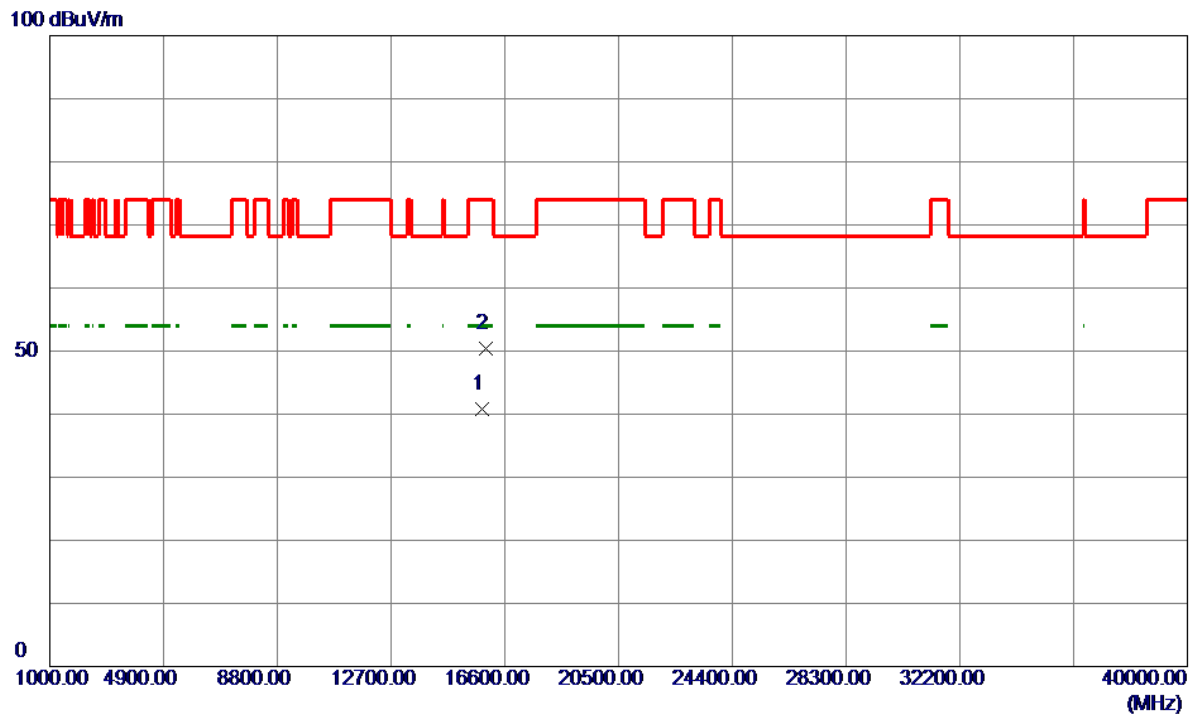


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5303.9000	71.43	12.33	83.76	68.20	15.56	Peak	

REMARKS:

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

Test Mode	UNII-2A_TX AC(VHT20) Mode 5300 MHz	Polarization	Horizontal
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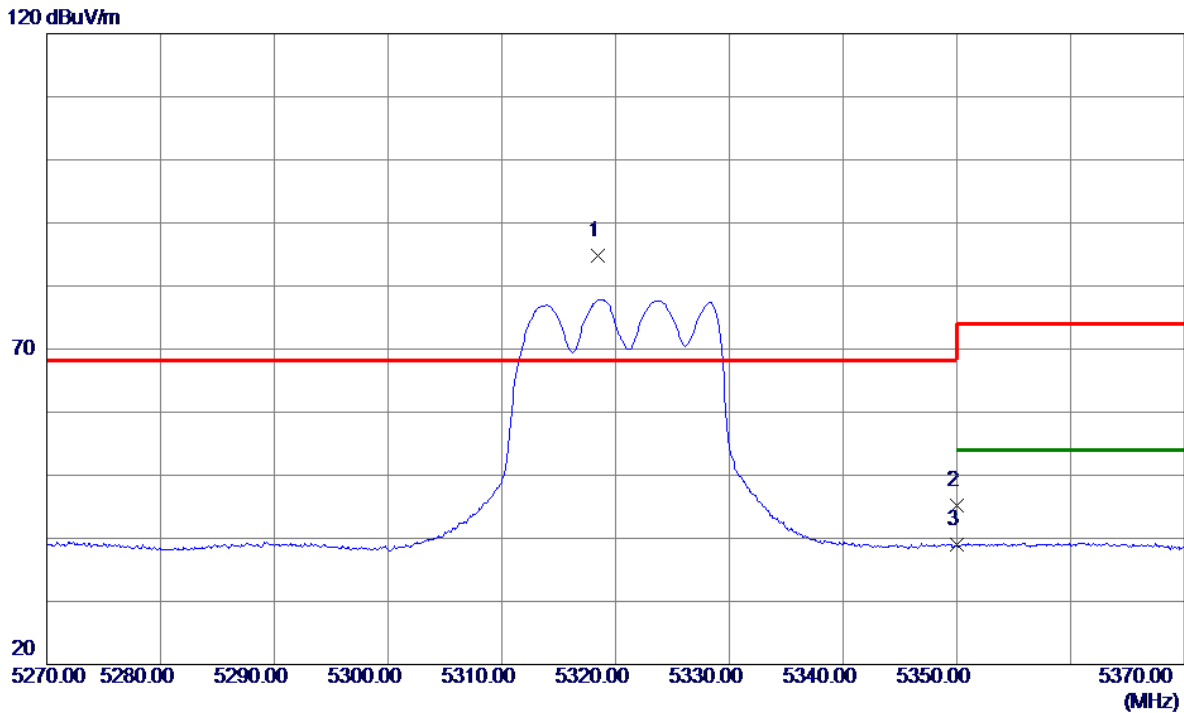


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15817.9960	29.96	10.79	40.75	54.00	-13.25	AVG	
2	15946.1480	39.09	11.25	50.34	74.00	-23.66	Peak	

REMARKS:

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

Test Mode	UNII-2A_TX AC(VHT20) Mode 5320 MHz	Polarization	Horizontal
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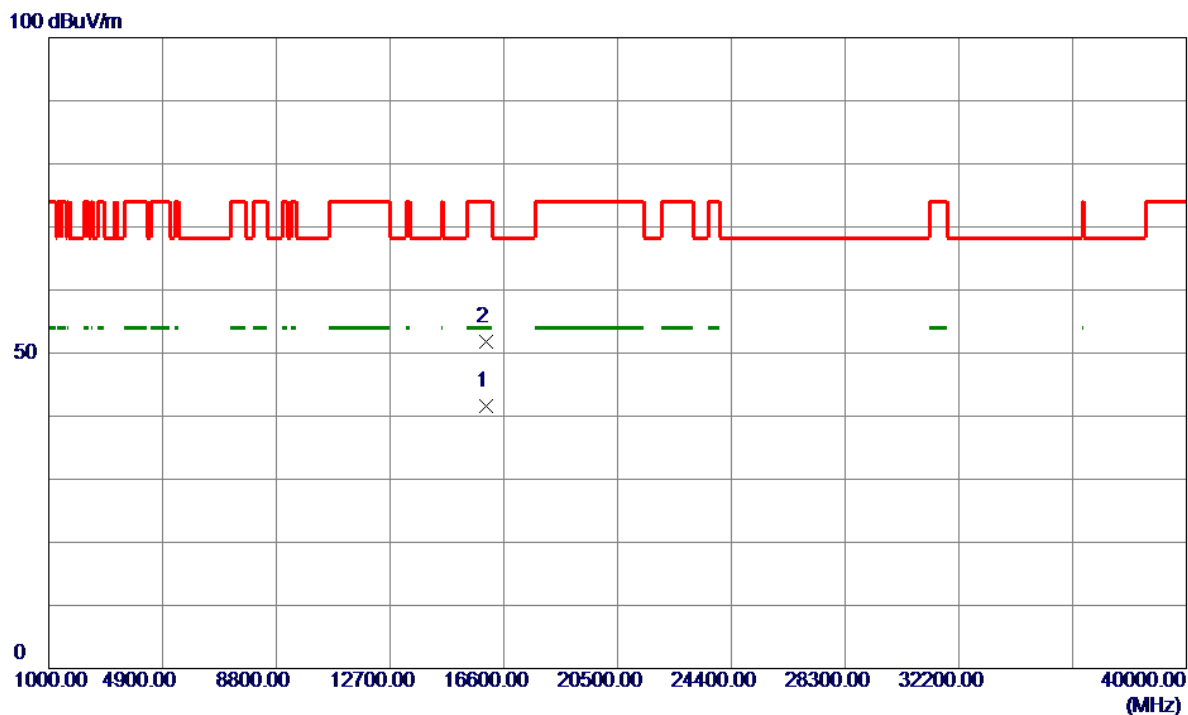


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5318.4000	72.51	12.33	84.84	68.20	16.64	Peak	
2	5350.0000	32.92	12.33	45.25	74.00	-28.75	Peak	
3	5350.0000	26.65	12.33	38.98	54.00	-15.02	AVG	

**REMARKS:**

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

Test Mode	UNII-2A_TX AC(VHT20) Mode 5320 MHz	Polarization	Horizontal
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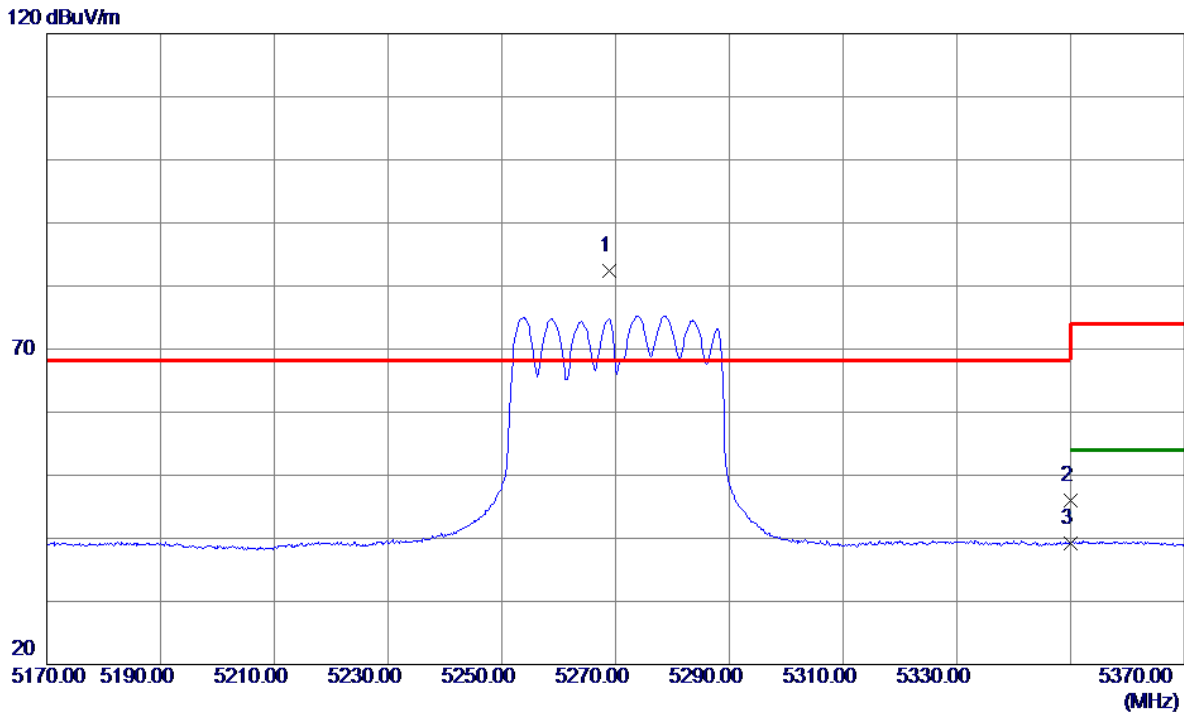


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15990.9590	30.16	11.42	41.58	54.00	-12.42	AVG	
2	15993.2000	40.41	11.43	51.84	74.00	-22.16	Peak	

REMARKS:

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

Test Mode	UNII-2A_TX AC(VHT40) Mode 5270 MHz	Polarization	Horizontal
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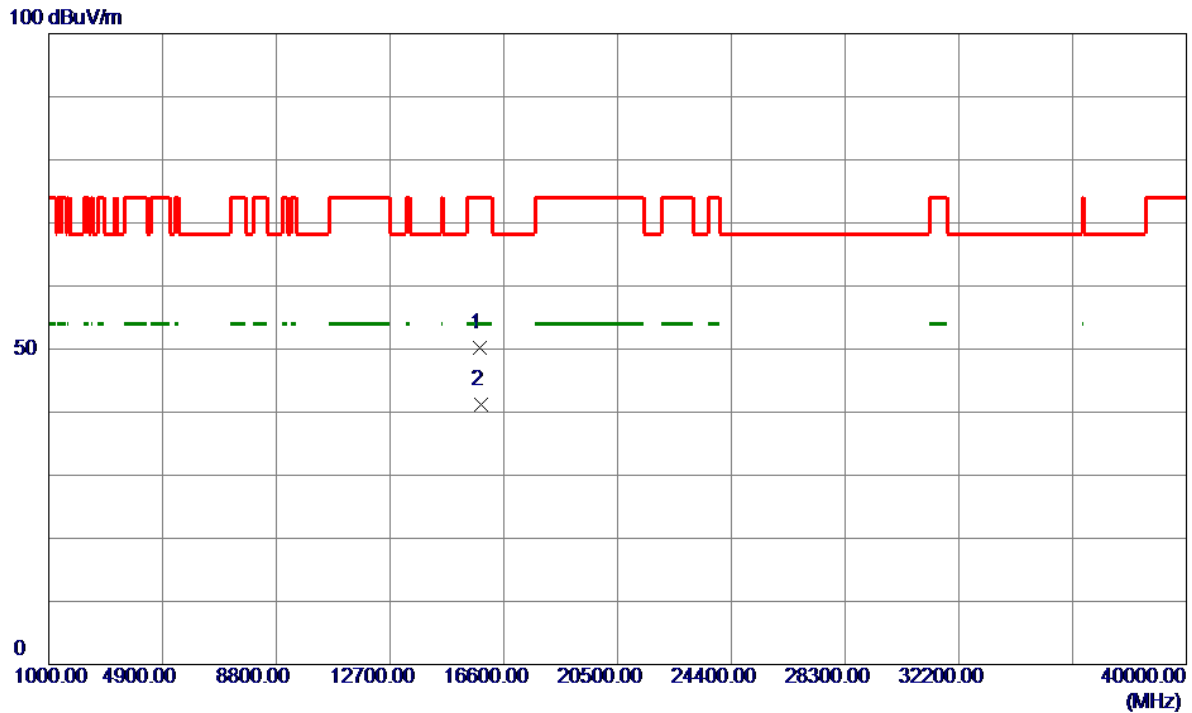


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5268.8000	70.02	12.33	82.35	68.20	14.15	Peak	
2	5350.0000	33.64	12.33	45.97	74.00	-28.03	Peak	
3	5350.0000	26.96	12.33	39.29	54.00	-14.71	AVG	

**REMARKS:**

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

Test Mode	UNII-2A_TX AC(VHT40) Mode 5270 MHz	Polarization	Horizontal
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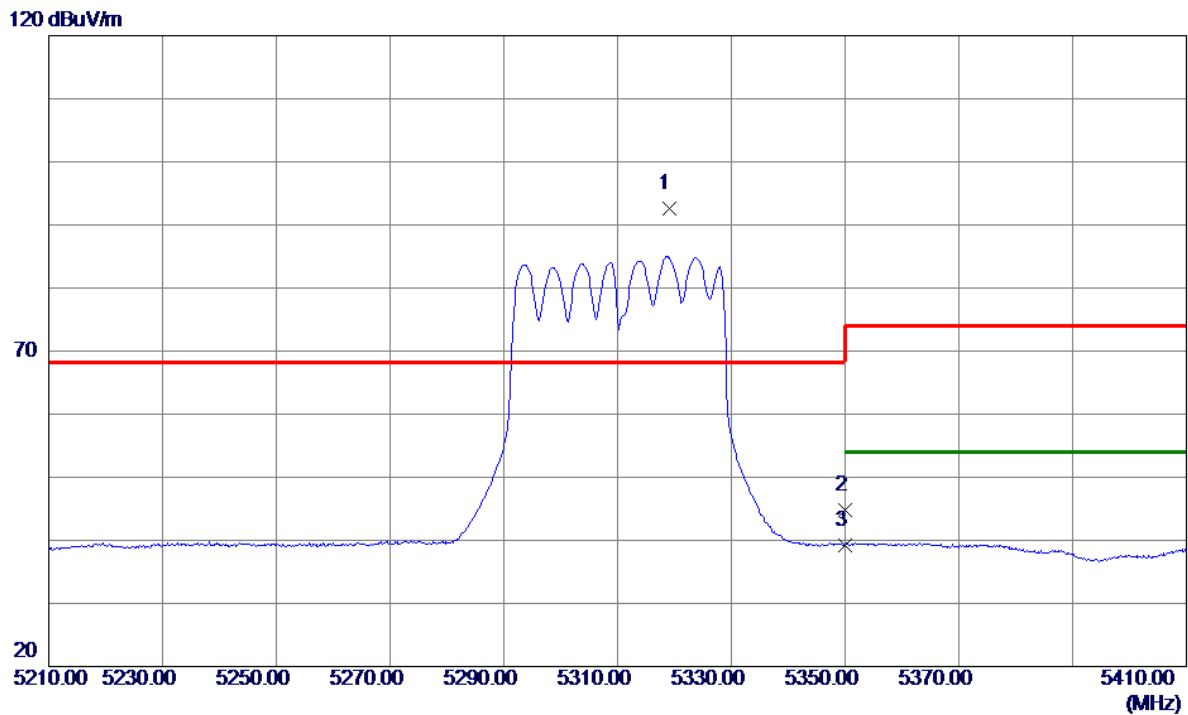


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15767.0000	39.65	10.60	50.25	74.00	-23.75	Peak	
2 *	15822.0000	30.31	10.80	41.11	54.00	-12.89	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX AC(VHT40) Mode 5310 MHz	Polarization	Horizontal
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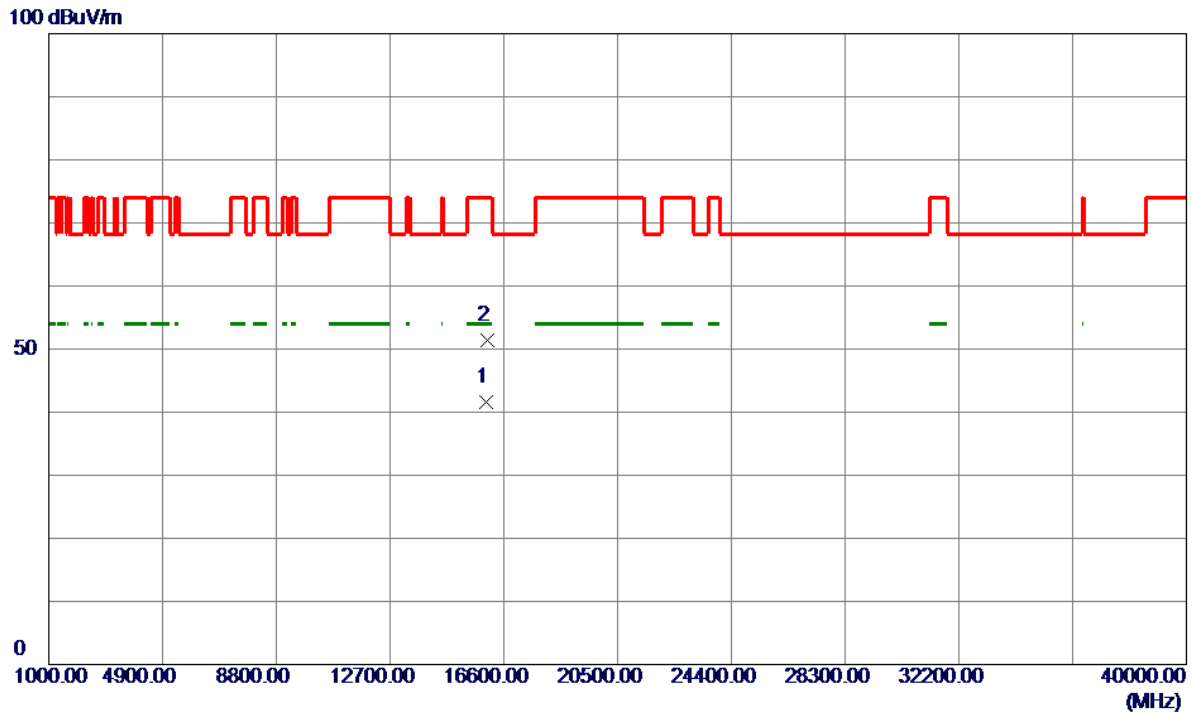
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5319.0000	80.28	12.33	92.61	68.20	24.41	Peak	
2	5350.0000	32.45	12.33	44.78	74.00	-29.22	Peak	
3	5350.0000	26.89	12.33	39.22	54.00	-14.78	AVG	

**REMARKS:**

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



Test Mode	UNII-2A_TX AC(VHT40) Mode 5310 MHz	Polarization	Horizontal
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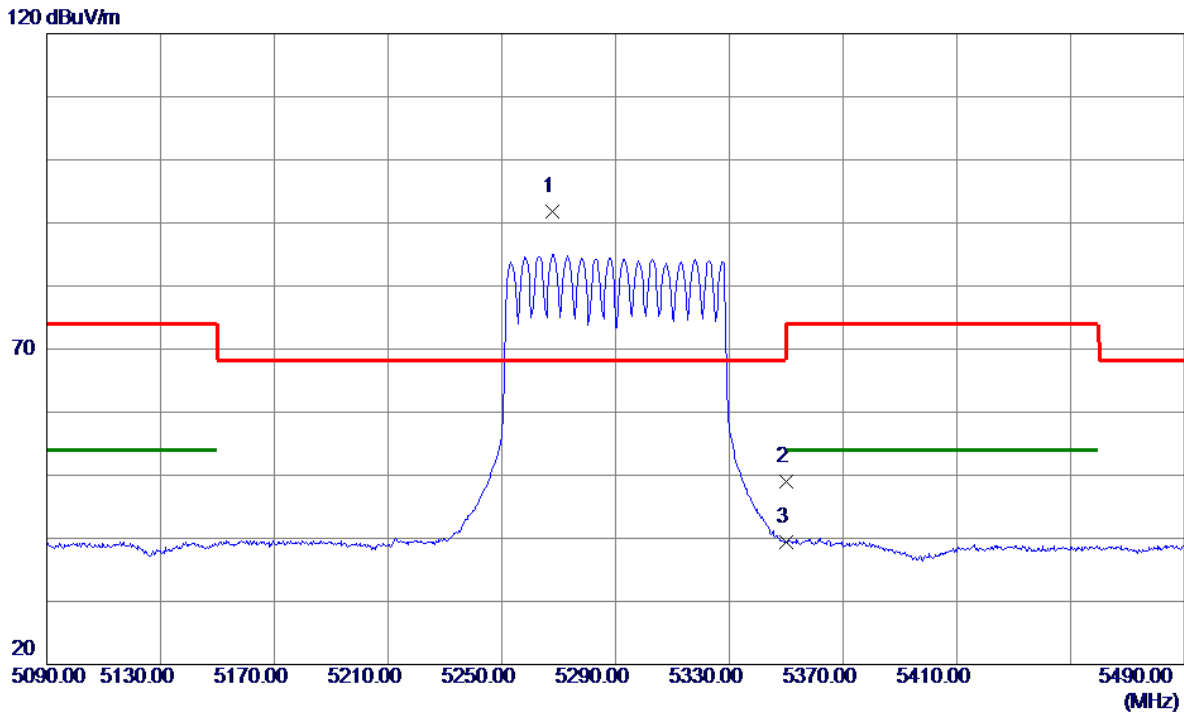


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15997.3000	30.08	11.44	41.52	54.00	-12.48	AVG	
2	16022.6000	40.01	11.44	51.45	74.00	-22.55	Peak	

REMARKS:

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

Test Mode	UNII-2A_TX AC(VHT80) Mode 5290 MHz	Polarization	Horizontal
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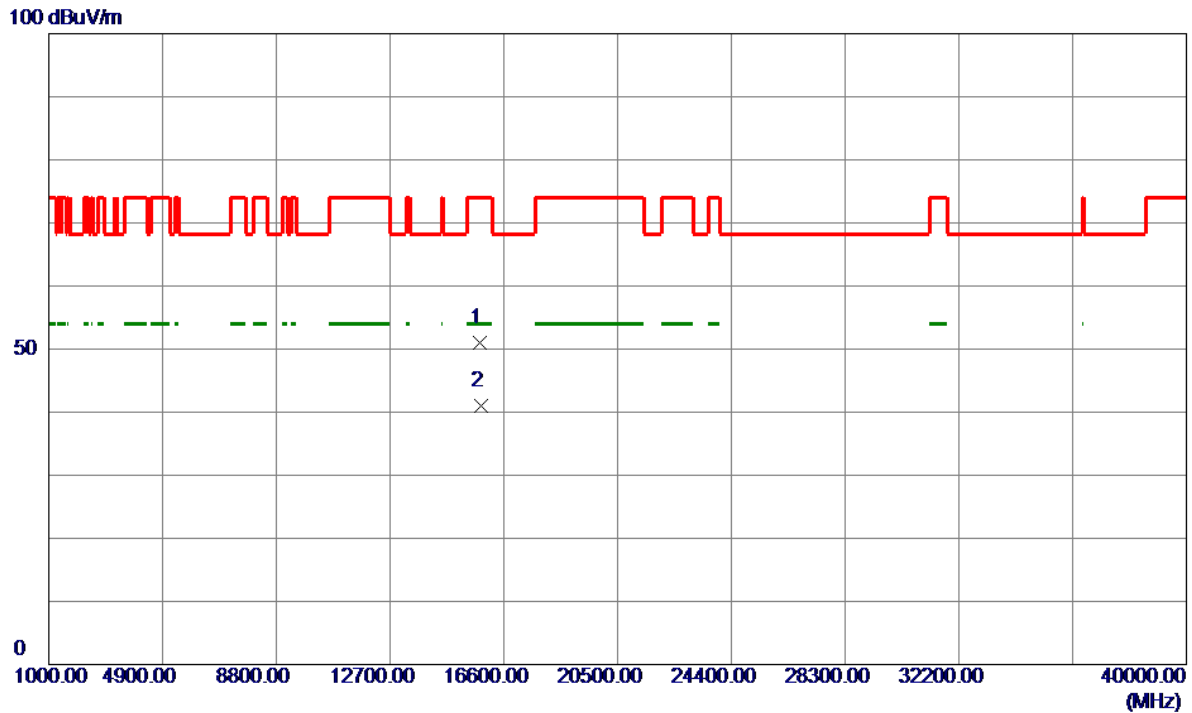


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5267.6000	79.39	12.33	91.72	68.20	23.52	Peak	
2	5350.0000	36.67	12.33	49.00	74.00	-25.00	Peak	
3	5350.0000	27.07	12.33	39.40	54.00	-14.60	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX AC(VHT80) Mode 5290 MHz	Polarization	Horizontal
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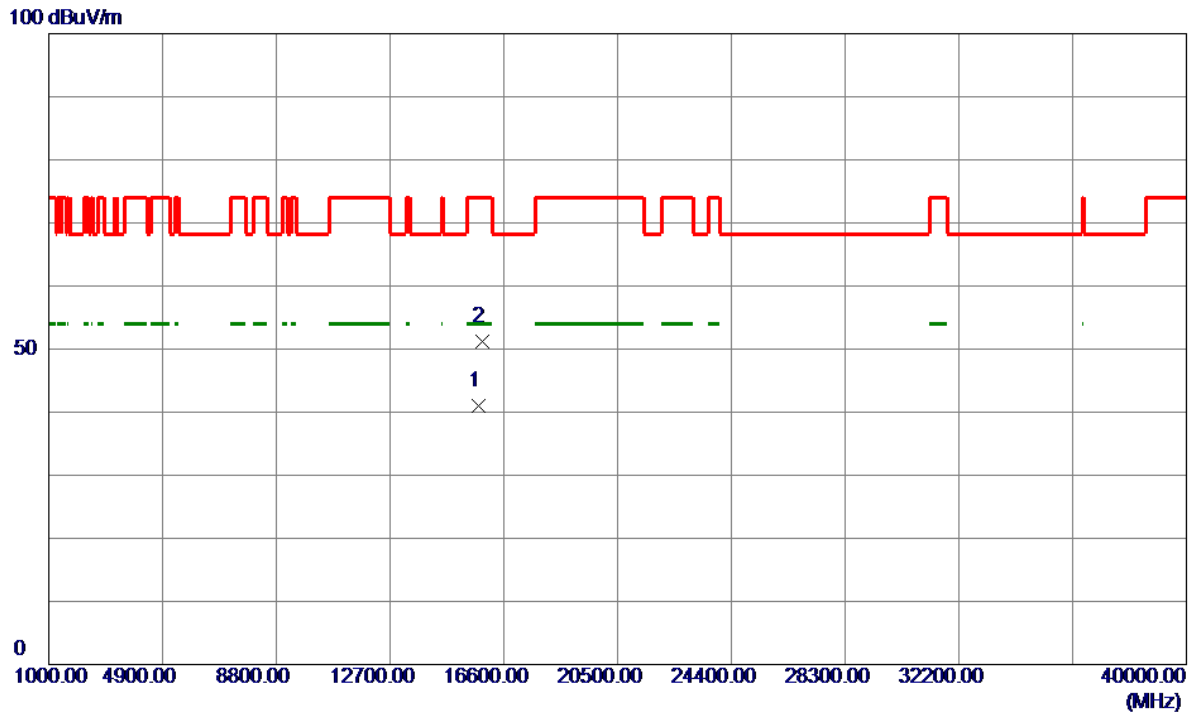


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15786.7000	40.35	10.67	51.02	74.00	-22.98	Peak	
2 *	15814.7000	30.15	10.78	40.93	54.00	-13.07	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX AX(HE20) Mode 5260 MHz	Polarization	Horizontal
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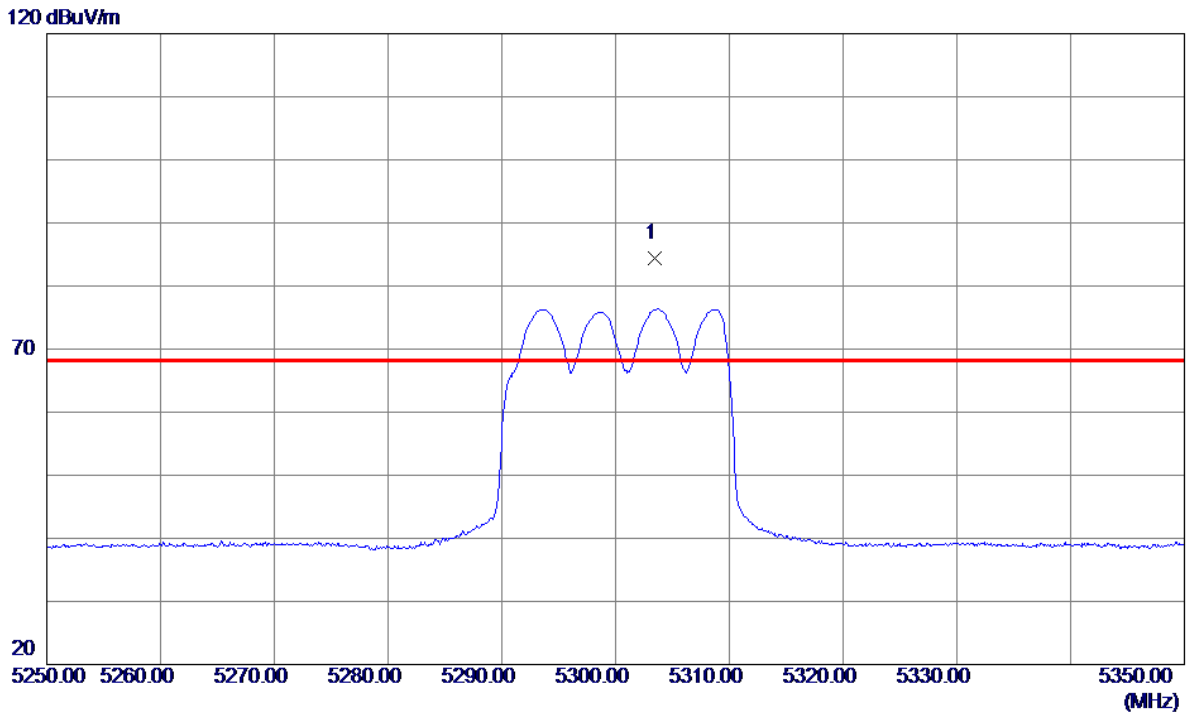


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15753.6060	30.46	10.55	41.01	54.00	-12.99	AVG	
2	15857.5220	40.28	10.93	51.21	74.00	-22.79	Peak	

**REMARKS:**

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

Test Mode	UNII-2A_TX AX(HE20) Mode 5300 MHz	Polarization	Horizontal
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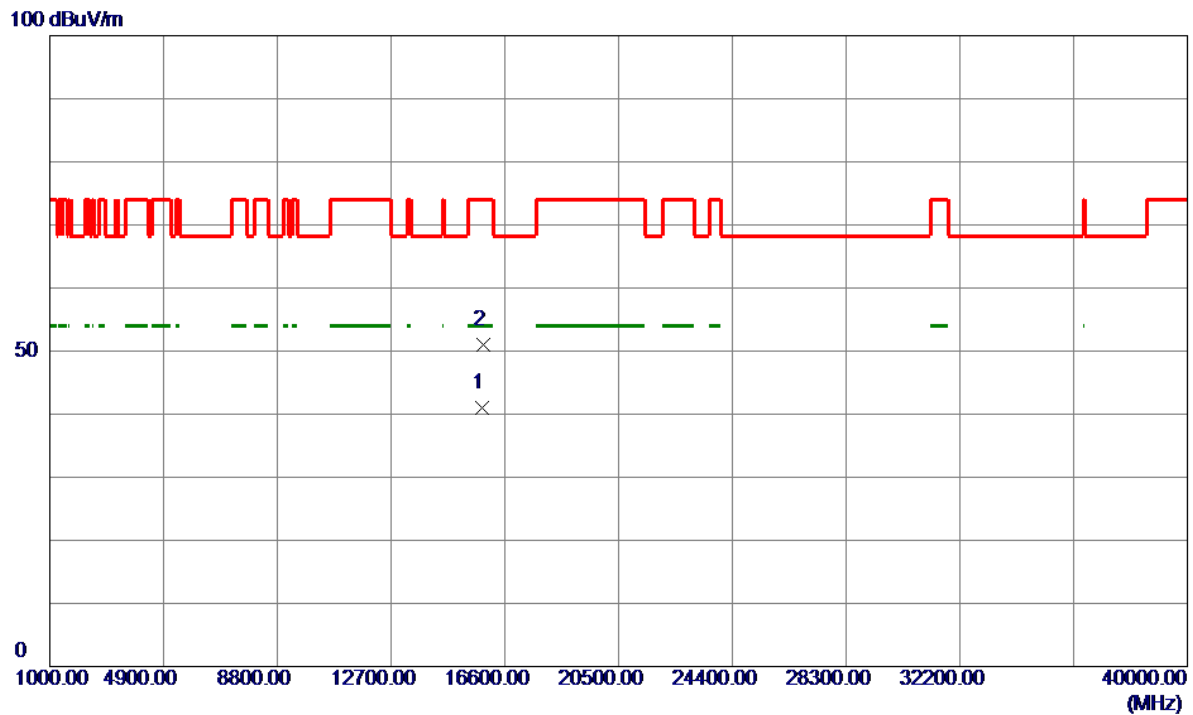


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5303.4500	72.00	12.33	84.33	68.20	16.13	Peak	

REMARKS:

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

Test Mode	UNII-2A_TX AX(HE20) Mode 5300 MHz	Polarization	Horizontal
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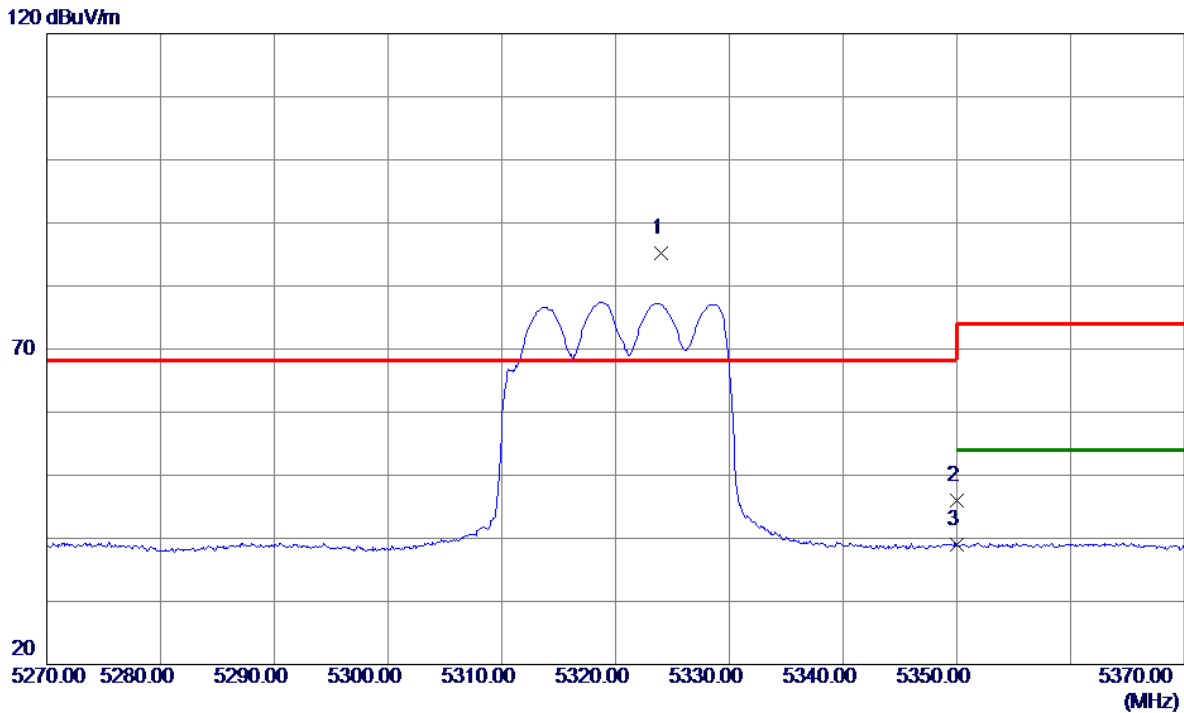


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15821.8140	30.27	10.80	41.07	54.00	-12.93	AVG	
2	15853.7690	40.00	10.92	50.92	74.00	-23.08	Peak	

**REMARKS:**

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

Test Mode	UNII-2A_TX AX(HE20) Mode 5320 MHz	Polarization	Horizontal
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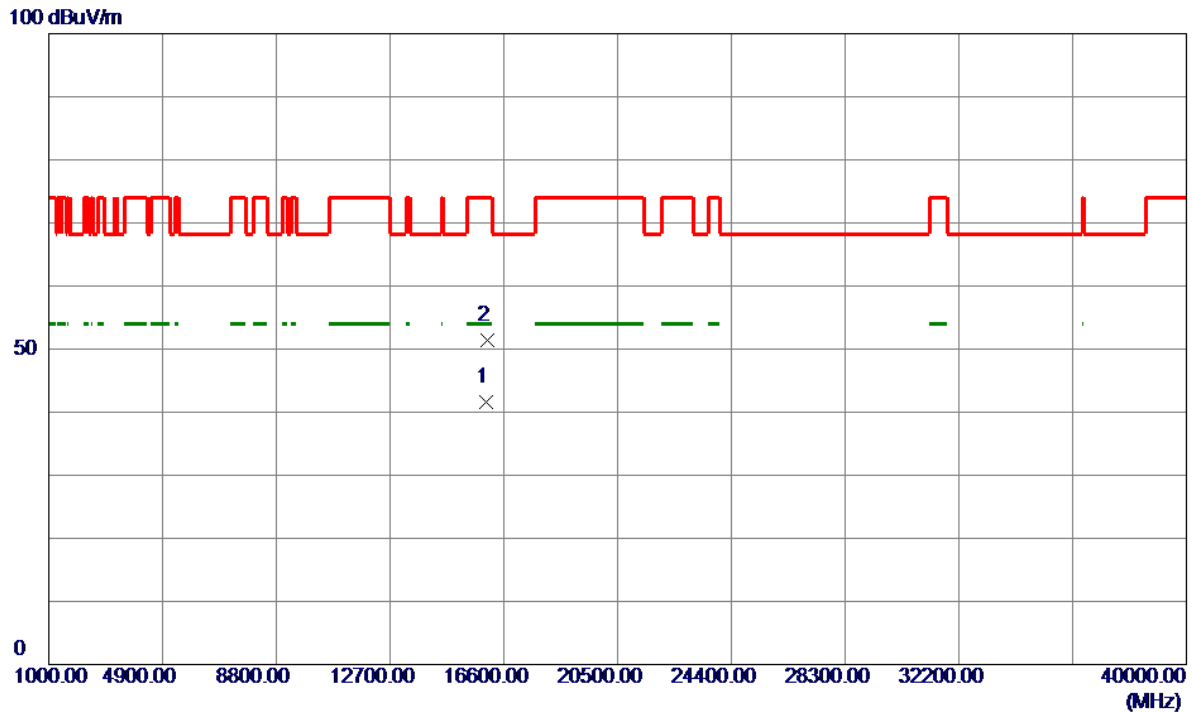


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5324.0000	72.91	12.33	85.24	68.20	17.04	Peak	
2	5350.0000	33.68	12.33	46.01	74.00	-27.99	Peak	
3	5350.0000	26.58	12.33	38.91	54.00	-15.09	AVG	

**REMARKS:**

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

Test Mode	UNII-2A_TX AX(HE20) Mode 5320 MHz	Polarization	Horizontal
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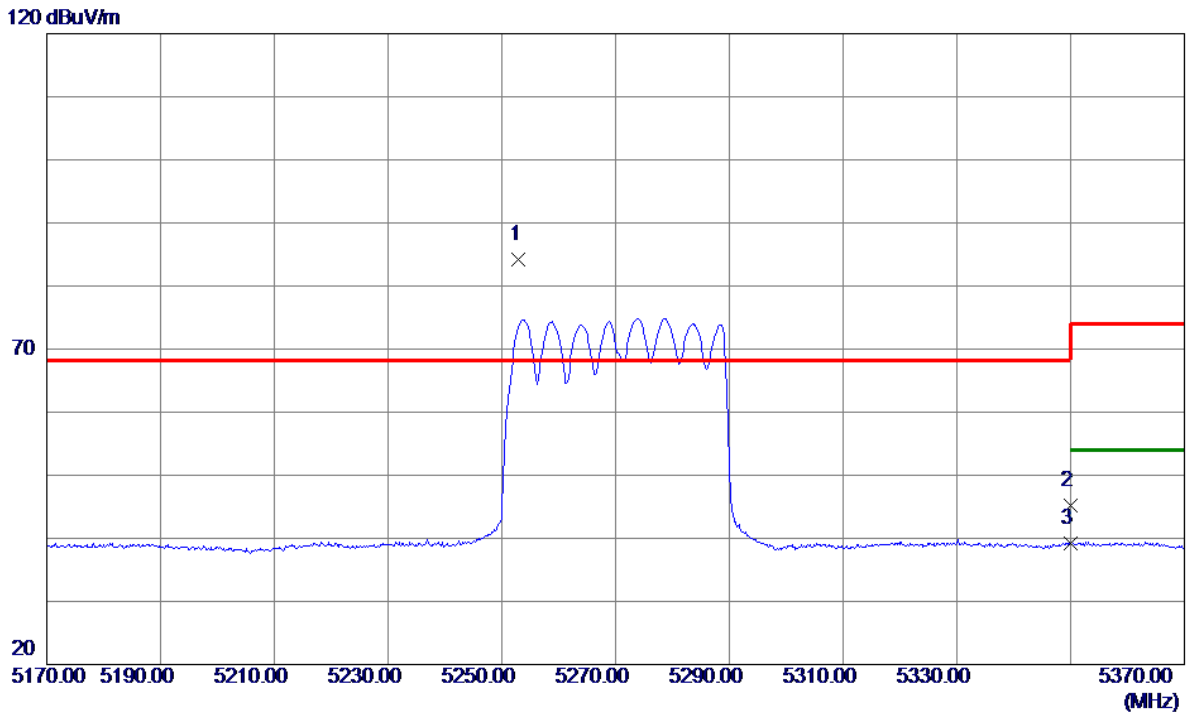
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15991.5400	30.13	11.42	41.55	54.00	-12.45	AVG	
2	16021.4200	40.01	11.44	51.45	74.00	-22.55	Peak	

REMARKS:

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



Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Horizontal
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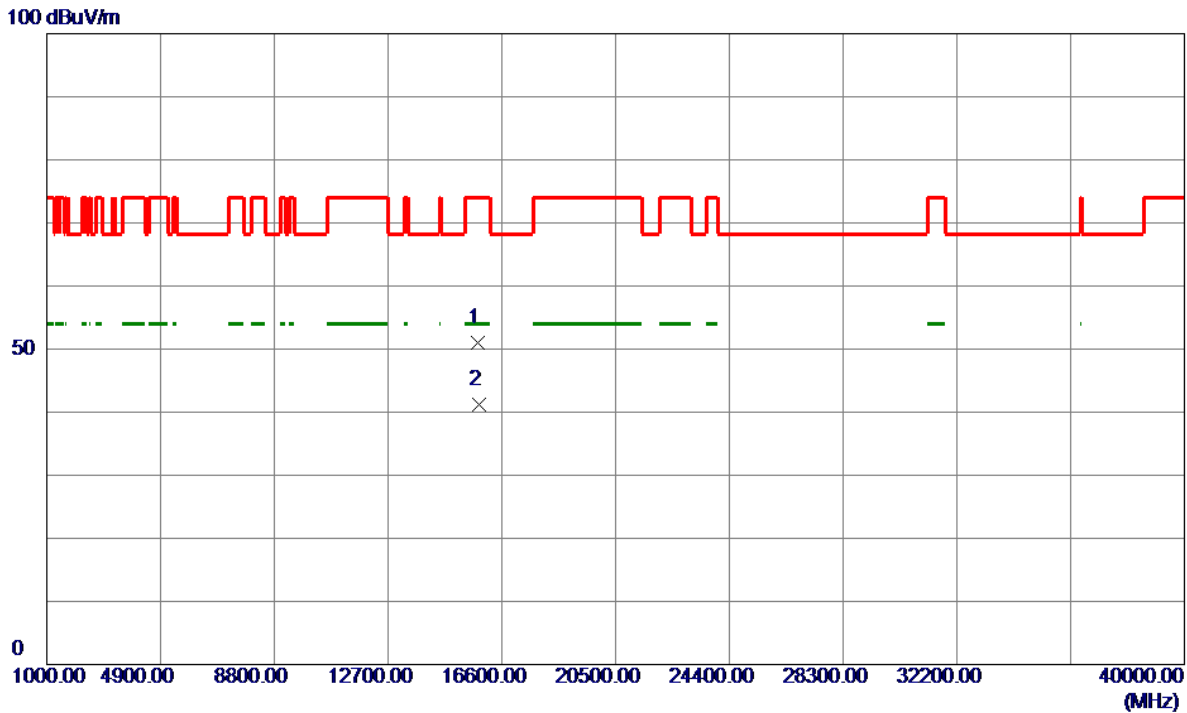


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5253.0000	71.79	12.32	84.11	68.20	15.91	Peak	
2	5350.0000	32.96	12.33	45.29	74.00	-28.71	Peak	
3	5350.0000	26.92	12.33	39.25	54.00	-14.75	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Horizontal
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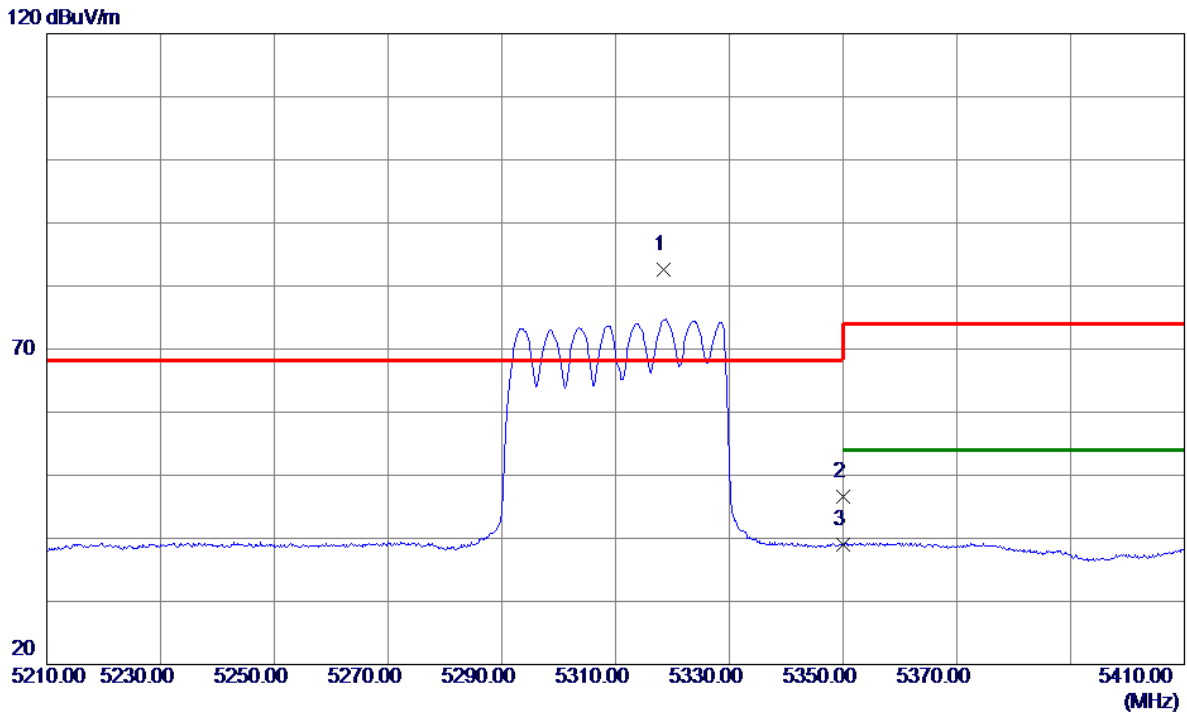


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15793.6000	40.27	10.70	50.97	74.00	-23.03	Peak	
2 *	15823.1000	30.35	10.81	41.16	54.00	-12.84	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX AX(HE40) Mode 5310 MHz	Polarization	Horizontal
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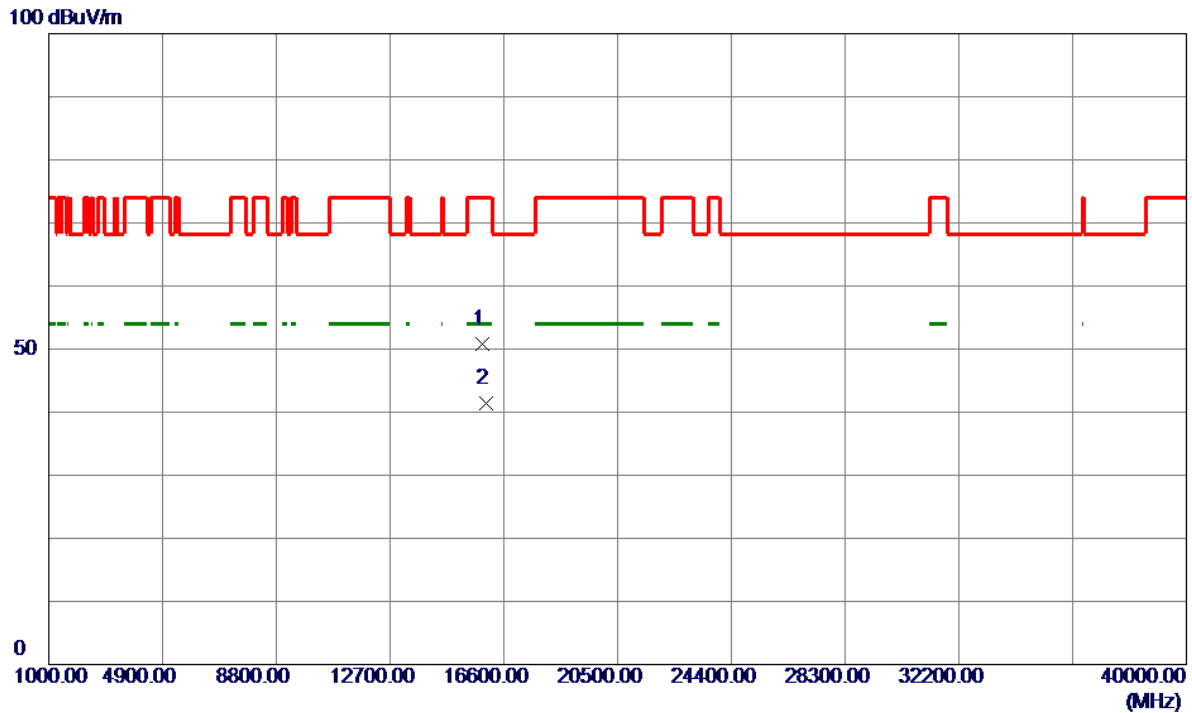


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5318.5000	70.33	12.33	82.66	68.20	14.46	Peak	
2	5350.0000	34.18	12.33	46.51	74.00	-27.49	Peak	
3	5350.0000	26.67	12.33	39.00	54.00	-15.00	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX AX(HE40) Mode 5310 MHz	Polarization	Horizontal
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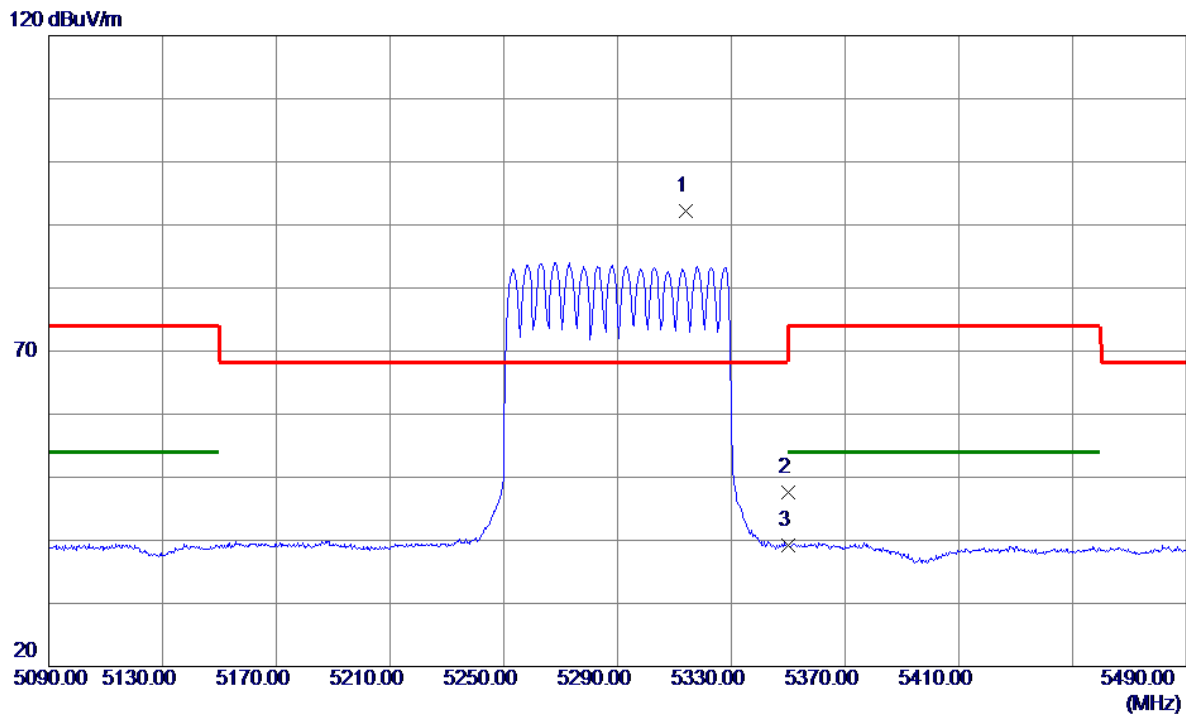


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	15856.2000	39.81	10.93	50.74	74.00	-23.26	Peak	
2 *	15991.5000	30.04	11.42	41.46	54.00	-12.54	AVG	

REMARKS:

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

Test Mode	UNII-2A_TX AX(HE80) Mode 5290 MHz	Polarization	Horizontal
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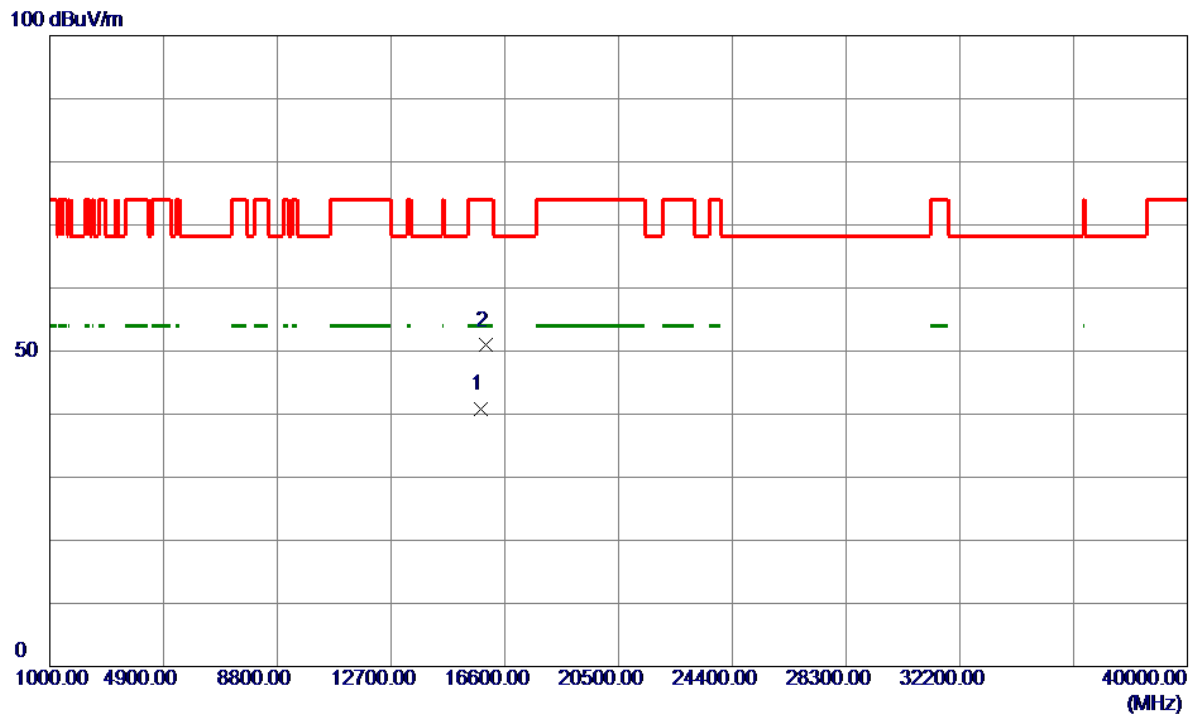


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5314.0000	79.78	12.33	92.11	68.20	23.91	Peak	
2	5350.0000	35.18	12.33	47.51	74.00	-26.49	Peak	
3	5350.0000	26.95	12.33	39.28	54.00	-14.72	AVG	

**REMARKS:**

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

Test Mode	UNII-2A_TX AX(HE80) Mode 5290 MHz	Polarization	Horizontal
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	15770.5000	30.17	10.61	40.78	54.00	-13.22	AVG	
2	15952.1000	39.62	11.28	50.90	74.00	-23.10	Peak	

**REMARKS:**

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