Certificate #7130.01

FCC Radio Test Report

FCC ID: 2BCGWEAP610GPDT

This report concerns: Class II Permissive Change

Project No.	:	2401G094D
Equipment	:	AX1800 Desktop Wi-Fi 6 GPON Access Point
Brand Name	:	tp-link
Test Model	:	EAP603GP-Desktop
Series Model	:	N/A
Applicant	:	TP-LINK CORPORATION PTE. LTD.
Address	:	7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer	:	TP-LINK CORPORATION PTE. LTD.
Address	:	7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Date of Receipt	:	Feb. 28, 2025
Date of Test	:	Mar. 03, 2025 ~ Mar. 27, 2025
Issued Date	:	Apr. 17, 2025
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2025022828 for Radiated, DG2025022829 for others.
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.

Prepared by : Grani Zhou

Grani Zhou

Approved by : Welly Zhou

Welly Zhou

Room 108-116, 309-310, Building 2, No.1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong, People's Republic of China.

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

The report must not be used by the client to claim product certification, approval, or endorsement by A2LA or any agency of the U.S. Government.

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

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

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

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

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.
Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

Table of Contents Page

REPORT ISSUED HISTORY 6

1 . APPLICABLE STANDARDS 7

2 . SUMMARY OF TEST RESULTS 7

2.1 TEST FACILITY 8

2.2 MEASUREMENT UNCERTAINTY 8

2.3 TEST ENVIRONMENT CONDITIONS 9

3 . GENERAL INFORMATION 10

3.1 GENERAL DESCRIPTION OF EUT 10

3.2 TEST MODES 12

3.3 PARAMETERS OF TEST SOFTWARE 15

3.4 DUTY CYCLE 16

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 19

3.6 SUPPORT UNITS 19

3.7 CUSTOMER INFORMATION DESCRIPTION 19

4 . AC POWER LINE CONDUCTED EMISSIONS 20

4.1 LIMIT 20

4.2 TEST PROCEDURE 20

4.3 DEVIATION FROM TEST STANDARD 20

4.4 TEST SETUP 21

4.5 EUT OPERATION CONDITIONS 21

4.6 TEST RESULTS 21

5 . RADIATED EMISSIONS 22

5.1 LIMIT 22

5.2 TEST PROCEDURE 23

5.3 DEVIATION FROM TEST STANDARD 24

5.4 TEST SETUP 24

5.5 EUT OPERATION CONDITIONS 26

5.6 TEST RESULTS - 9 KHZ TO 30 MHZ 26

5.7 TEST RESULTS - 30 MHZ TO 1000 MHZ 26

5.8 TEST RESULTS - ABOVE 1000 MHZ 26

6 . BANDWIDTH 27

6.1 LIMIT 27

6.2 TEST PROCEDURE 27

Table of Contents Page

6.3 DEVIATION FROM STANDARD 27
6.4 TEST SETUP 27
6.5 EUT OPERATION CONDITIONS 27
6.6 TEST RESULTS 27
7 . MAXIMUM OUTPUT POWER 28
7.1 LIMIT 28
7.2 TEST PROCEDURE 28
7.3 DEVIATION FROM STANDARD 28
7.4 TEST SETUP 28
7.5 EUT OPERATION CONDITIONS 28
7.6 TEST RESULTS 28
8 . POWER SPECTRAL DENSITY 29
8.1 LIMIT 29
8.2 TEST PROCEDURE 29
8.3 DEVIATION FROM STANDARD 29
8.4 TEST SETUP 29
8.5 EUT OPERATION CONDITIONS 29
8.6 TEST RESULTS 29
9 . FREQUENCY STABILITY 30
9.1 LIMIT 30
9.2 TEST PROCEDURE 30
9.3 DEVIATION FROM STANDARD 30
9.4 TEST SETUP 30
9.5 EUT OPERATION CONDITIONS 30
9.6 TEST RESULTS 30
10 . MEASUREMENT INSTRUMENTS LIST 31
11 . EUT TEST PHOTOS 34
APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS 40
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ 43
APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ 48
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ 51
APPENDIX E - BANDWIDTH 114
APPENDIX F - MAXIMUM OUTPUT POWER 129

Table of Contents

Page

APPENDIX G - POWER SPECTRAL DENSITY **144**

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-4-2401G094D	R00	Original Report.	Apr. 17, 2025	Valid

1. APPLICABLE STANDARDS

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:
ANSI C63.10-2013
The following reference test guidance is not within the scope of accreditation of A2LA:
KDB 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)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	------
15.407(a)	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	**NOTE (4)**	------
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) This test items are not tested according to client's requirement.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:
For Radiated Emissions-Above 30MHz items: 1-2/F, 4/F, Building A, 1-2/F, Building B, 3/F, Building C, No.3, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.
For other items: Room 102 & Room 702, Building 3, No.9, Jinshagang 1st Road, Dalang Town, Dongguan City, Guangdong People's Republic of China.
BTL's Registration Number for FCC: 747969
BTL's Designation Number for FCC: CN1377

2.2 MEASUREMENT UNCERTAINTY

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

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.88

B. Radiated emissions test:

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

Test Site	Method	Measurement Frequency Range	Ant. H / V	*U*,(dB)
DG-CB17 (3m)	CISPR	30MHz ~ 200MHz	V	4.22
		30MHz ~ 200MHz	H	3.46
		200MHz ~ 1,000MHz	V	5.02
		200MHz ~ 1,000MHz	H	4.22

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-CB18 (3m)	CISPR	1GHz ~ 6GHz	4.48
		6GHz ~ 18GHz	3.88

Test Site	Method	Measurement Frequency Range	*U*,(dB)
DG-CB17 (1m)	CISPR	18 ~ 26.5 GHz	3.56
		26.5 ~ 40 GHz	3.54

C. Other Measurement test:

Test Item	Uncertainty
Bandwidth	0.90 %
Maximum Output Power	1.3 dB
Power Spectral Density	1.4 dB
Frequency Stability	2.7 ppm
Temperature	0.8 °C
Humidity	2.2 %

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

2.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By	Test Date
AC Power Line Conducted Emissions	22°C	55%	AC 120V/60Hz	Hayden Chen	Mar. 05, 2025
Radiated Emissions-9kHz to 30MHz	22°C	46%	AC 120V/60Hz	Hayden Chen	Mar. 07, 2025
Radiated Emissions-30MHz to 1000MHz	25°C	46%	AC 120V/60Hz	Calvin Wen	Mar. 05, 2025
Radiated Emissions-Above 1000 MHz	24°C	48%	AC 120V/60Hz	Calvin Wen	Mar. 06, 2025
	25°C	49%	AC 120V/60Hz	Drew Tan	Mar. 12, 2025
Bandwidth	24°C	49%	AC 120V/60Hz	Jensen Zhou	Mar. 10, 2025
Maximum Output Power	24°C	49%	AC 120V/60Hz	Jensen Zhou	Mar. 10, 2025
Power Spectral Density	24°C	49%	AC 120V/60Hz	Jensen Zhou	Mar. 10, 2025

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Desktop Wi-Fi 6 GPON Access Point
Brand Name	tp-link
Test Model	EAP603GP-Desktop
Series Model	N/A
Model Difference(s)	N/A
Software Version	1.0
Hardware Version	1.0
Power Source	DC voltage supplied from AC adapter. Model: T120150-2B4
Power Rating	Input: 100-240V~ 50/60Hz 0.6A Output: 12.0V ⎓ 1.5A
Operation Frequency Band(s)	UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 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-2A	IEEE 802.11ax(HE80): 22.79 dBm (0.1901 W)
Maximum Output Power _UNII-2C	IEEE 802.11ax(HE80): 22.99 dBm (0.1991 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-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				

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	tp-link	3101506768	Dipole	IPEX	2
1	tp-link	3101506769	Dipole	IPEX	2

Note:

1) This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT}+Array Gain.
For power measurements, Array Gain=0dB ($N_{ANT} \leqslant 4$), so the Directional gain=2.
For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.
So the Directional gain=G_{ANT}+Array Gain=$G_{ANT}+10\log(N_{ANT}/ N_{SS})$dBi=2+10log(2/1)dBi=5.01.
2) Beamforming Gain is 3dB, so the Directional gain=3+2=5 dBi.

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 52/60/64 (UNII-2A)
Mode 2	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 3	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 4	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 5	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 6	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 7	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 8	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 9	TX AC(VHT20) Mode Channel 100/116/140 (UNII-2C)
Mode 10	TX AC(VHT40) Mode Channel 102/110/134 (UNII-2C)
Mode 11	TX AC(VHT80) Mode Channel 106/122 (UNII-2C)
Mode 12	TX AX(HE20) Mode Channel 100/116/140 (UNII-2C)
Mode 13	TX AX(HE40) Mode Channel 102/110/134 (UNII-2C)
Mode 14	TX AX(HE80) Mode Channel 106/122 (UNII-2C)
Mode 15	TX AX(HE80) Mode Channel 106 (UNII-2C)

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 15	TX AX(HE80) Mode Channel 106 (UNII-2C)

Radiated Emissions Test - Below 1GHz	
Final Test Mode	Description
Mode 15	TX AX(HE80) Mode Channel 106 (UNII-2C)

Radiated Emissions Test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 2	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 3	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 4	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 5	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 6	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 7	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 8	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 9	TX AC(VHT20) Mode Channel 100/116/140 (UNII-2C)
Mode 10	TX AC(VHT40) Mode Channel 102/110/134 (UNII-2C)
Mode 11	TX AC(VHT80) Mode Channel 106/122 (UNII-2C)
Mode 12	TX AX(HE20) Mode Channel 100/116/140 (UNII-2C)
Mode 13	TX AX(HE40) Mode Channel 102/110/134 (UNII-2C)
Mode 14	TX AX(HE80) Mode Channel 106/122 (UNII-2C)

Conducted Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 52/60/64 (UNII-2A)
Mode 2	TX AC(VHT20) Mode Channel 52/60/64 (UNII-2A)
Mode 3	TX AC(VHT40) Mode Channel 54/62 (UNII-2A)
Mode 4	TX AC(VHT80) Mode Channel 58 (UNII-2A)
Mode 5	TX AX(HE20) Mode Channel 52/60/64 (UNII-2A)
Mode 6	TX AX(HE40) Mode Channel 54/62 (UNII-2A)
Mode 7	TX AX(HE80) Mode Channel 58 (UNII-2A)
Mode 8	TX A Mode Channel 100/116/140 (UNII-2C)
Mode 9	TX AC(VHT20) Mode Channel 100/116/140 (UNII-2C)
Mode 10	TX AC(VHT40) Mode Channel 102/110/134 (UNII-2C)
Mode 11	TX AC(VHT80) Mode Channel 106/122 (UNII-2C)
Mode 12	TX AX(HE20) Mode Channel 100/116/140 (UNII-2C)
Mode 13	TX AX(HE40) Mode Channel 102/110/134 (UNII-2C)
Mode 14	TX AX(HE80) Mode Channel 106/122 (UNII-2C)

Note:

(1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AX(HE80) Mode Channel 106 (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) For radiated emission Harmonic 18-40GHz test, only tested the worst case and recorded.

(4) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.

(5) VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

(6) There are two adapters, only the colour is different. During testing, they will be randomly paired for testing.

(7) For radiated emission above 1 GHz test, the polarization of Vertical and Horizontal are evaluated, the worst case is Horizontal and recorded.

(8) The RF Output Power of the Beamforming mode will be lower than that of the Non Beamforming mode. Only Non Beamforming mode will be evaluated and recorded in the report.

(9) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.

3.3 PARAMETERS OF TEST SOFTWARE

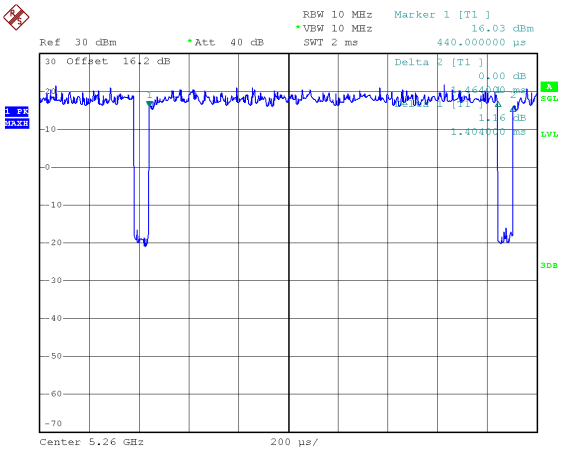
UNII-2A			
Test Software Version	MobaXterm_Personal_22.1		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	14.5	14.5	14.5
IEEE 802.11ac(VHT20)	14.5	14.5	14.5
IEEE 802.11ax(HE20)	14.5	14.5	14.5
Frequency (MHz)	5270	5310	
IEEE 802.11ac(VHT40)	15	14.5	
IEEE 802.11ax(HE40)	15	14.5	
Frequency (MHz)	5290		
IEEE 802.11ac(VHT80)	15		
IEEE 802.11ax(HE80)	15		

UNII-2C			
Test Software Version	MobaXterm_Personal_22.1		
Frequency (MHz)	5500	5580	5700
IEEE 802.11a	14.5	14	14
IEEE 802.11ac(VHT20)	14.5	14	14
IEEE 802.11ax(HE20)	14.5	14	14
Frequency (MHz)	5510	5550	5670
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	15	
Frequency (MHz)	5570		

3.4 DUTY CYCLE

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

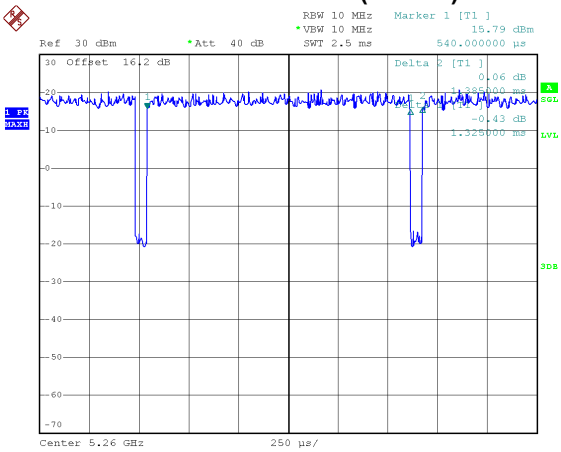
IEEE 802.11a



Date: 10.MAR.2025 18:30:43

Duty cycle = 1.404 ms / 1.464 ms = 95.90%
Duty Factor = 10 log(1 / Duty cycle) = 0.18

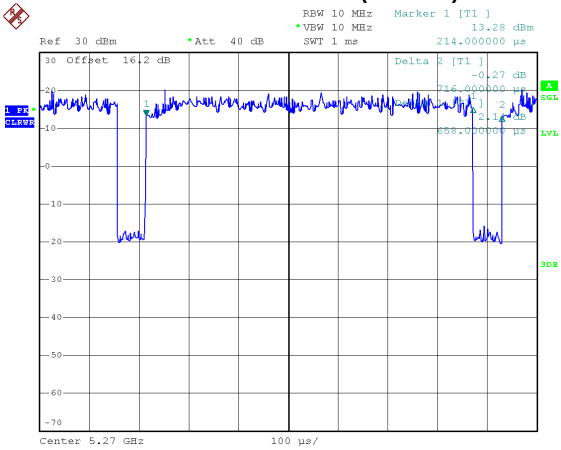
IEEE 802.11ac(VHT20)



Date: 10.MAR.2025 18:41:32

Duty cycle = 1.325 ms / 1.385 ms = 95.67%
Duty Factor = 10 log(1 / Duty cycle) = 0.19

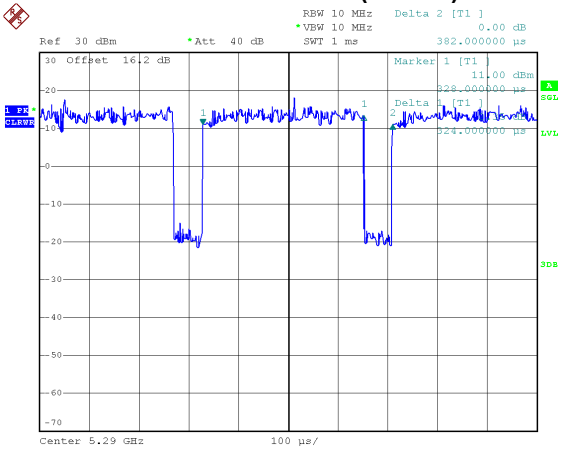
IEEE 802.11ac(VHT40)



Date: 10.MAR.2025 18:52:17

Duty cycle = 0.658 ms / 0.716 ms = 91.90%
Duty Factor = 10 log(1 / Duty cycle) = 0.37

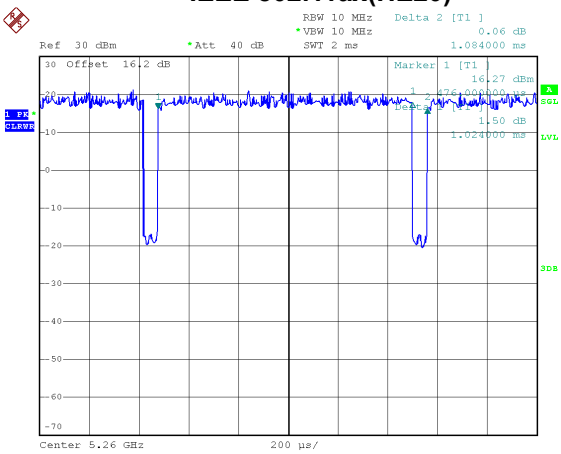
IEEE 802.11ac(VHT80)



Date: 10.MAR.2025 18:55:34

Duty cycle = 0.324 ms / 0.382 ms = 84.82%
Duty Factor = 10 log(1 / Duty cycle) = 0.72

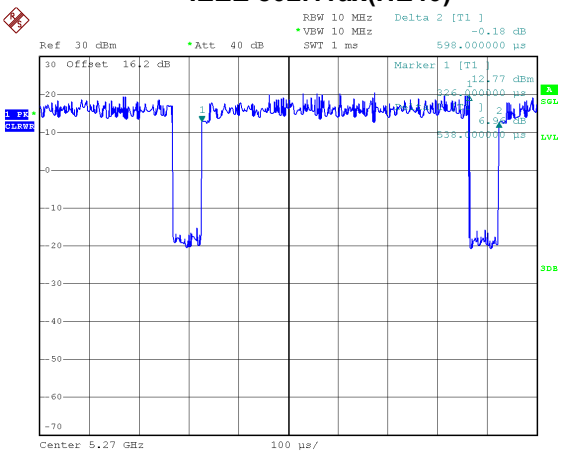
IEEE 802.11ax(HE20)



Date: 10.MAR.2025 18:43:28

Duty cycle = 1.024 ms / 1.084 ms = 94.46%
Duty Factor = 10 log(1 / Duty cycle) = 0.25

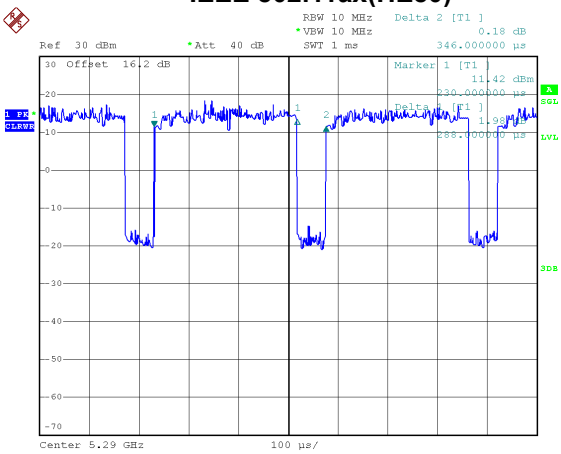
IEEE 802.11ax(HE40)



Date: 10.MAR.2025 18:51:19

Duty cycle = 0.538 ms / 0.598 ms = 89.97%
Duty Factor = 10 log(1 / Duty cycle) = 0.46

IEEE 802.11ax(HE80)



Date: 10.MAR.2025 19:08:47

Duty cycle = 0.288 ms / 0.346 ms = 83.24%
Duty Factor = 10 log(1 / Duty cycle) = 0.80

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 712 Hz (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 755 Hz (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 1520 Hz (Duty cycle < 98%).

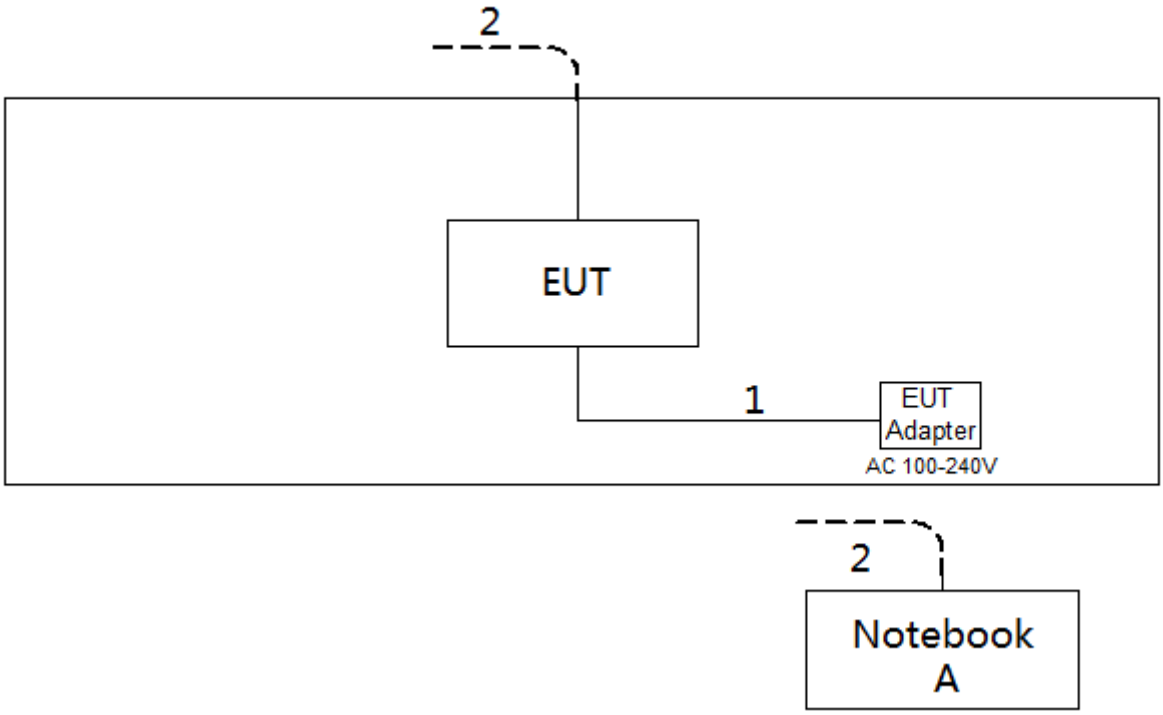
For IEEE 802.11ac(VHT80):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3086 Hz (Duty cycle < 98%).

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 977 Hz (Duty cycle < 98%).

For IEEE 802.11ax(HE40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1859 Hz (Duty cycle < 98%).

For IEEE 802.11ax(HE80):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3472 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	HUAWEI	KLVG-16	N/A

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

3.7 CUSTOMER INFORMATION DESCRIPTION

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

4. AC POWER LINE CONDUCTED EMISSIONS

4.1 LIMIT

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

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

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.

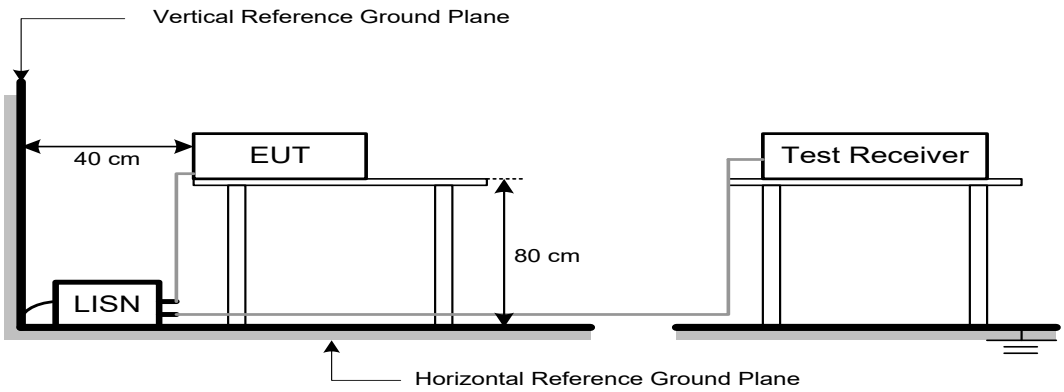
The following table is the setting of the receiver:

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 1m (dBμV/m)
5250-5350	-27	68.2	77.7 (Note 3)
5470-5725	-27	68.2	77.7 (Note 3)

NOTE:

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

$$E = \frac{1000000\sqrt{30P}}{3}$$ μV/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)

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

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

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

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

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

$d_{measure}$: Harmonic Actual test distance.

5.2 TEST PROCEDURE

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

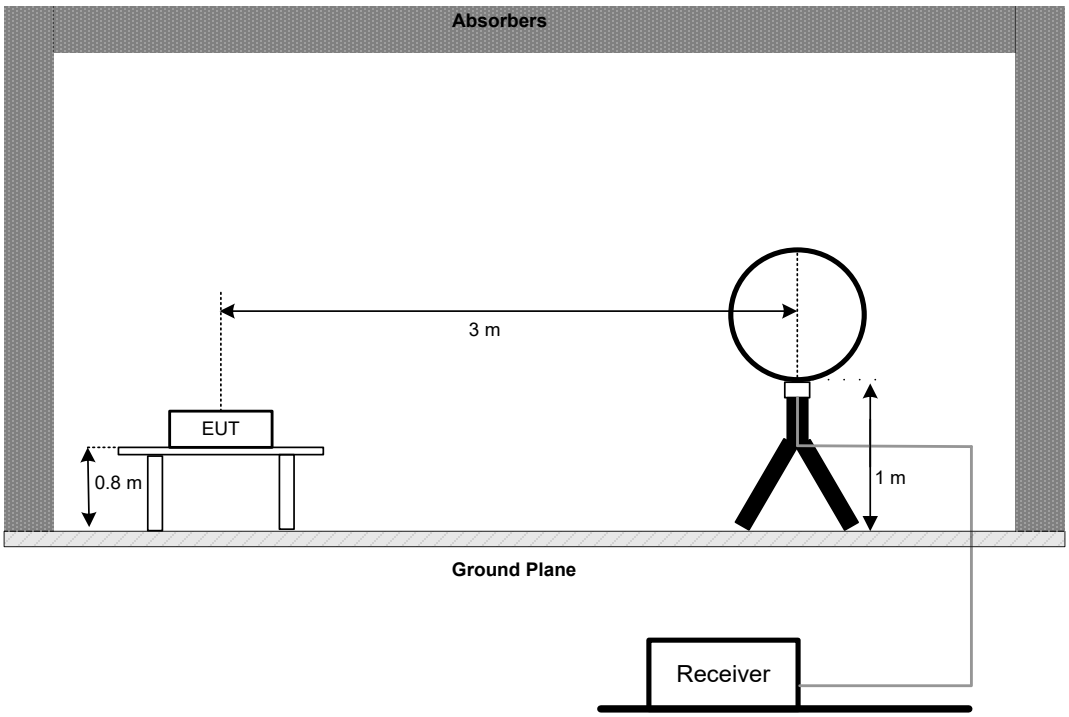
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

5.3 DEVIATION FROM TEST STANDARD

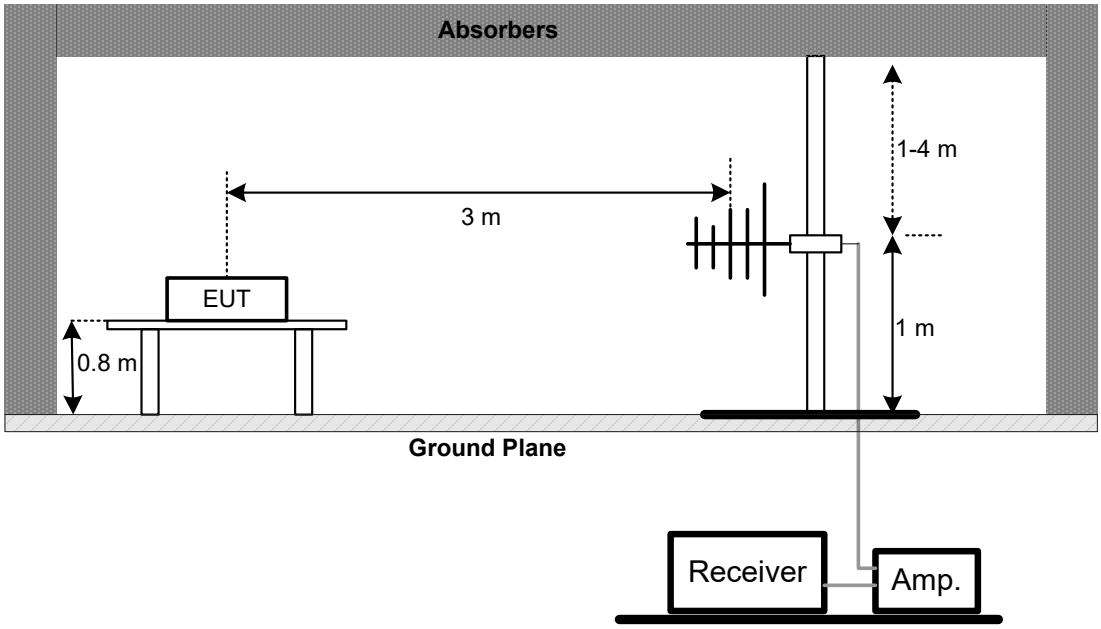
No deviation.

5.4 TEST SETUP

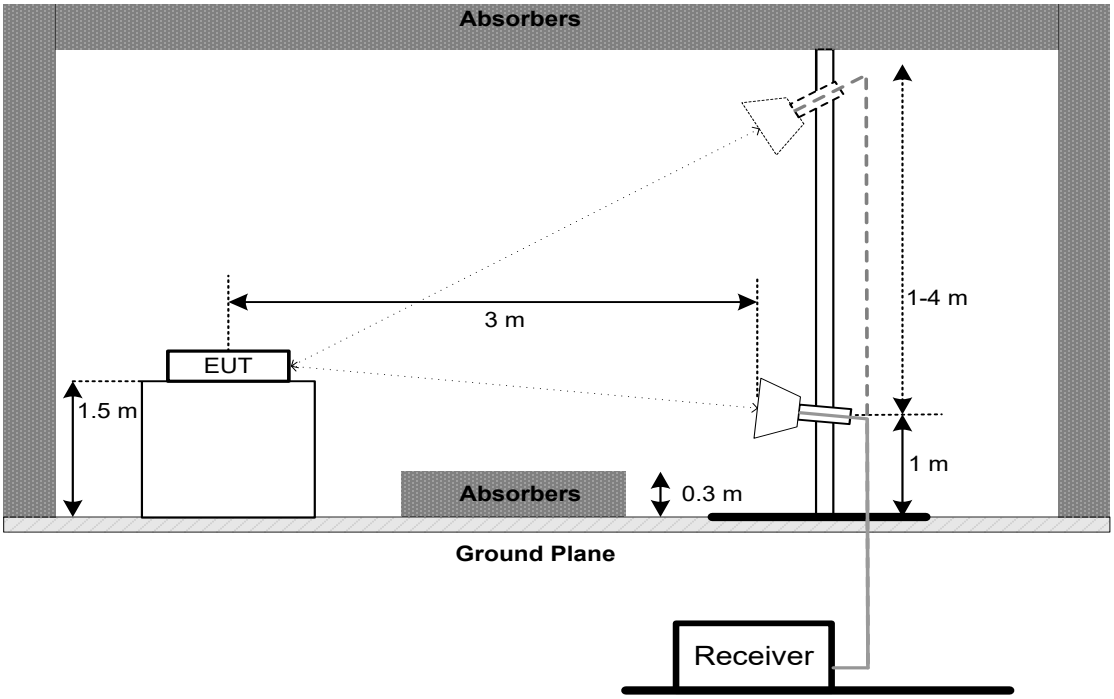
9 kHz to 30 MHz



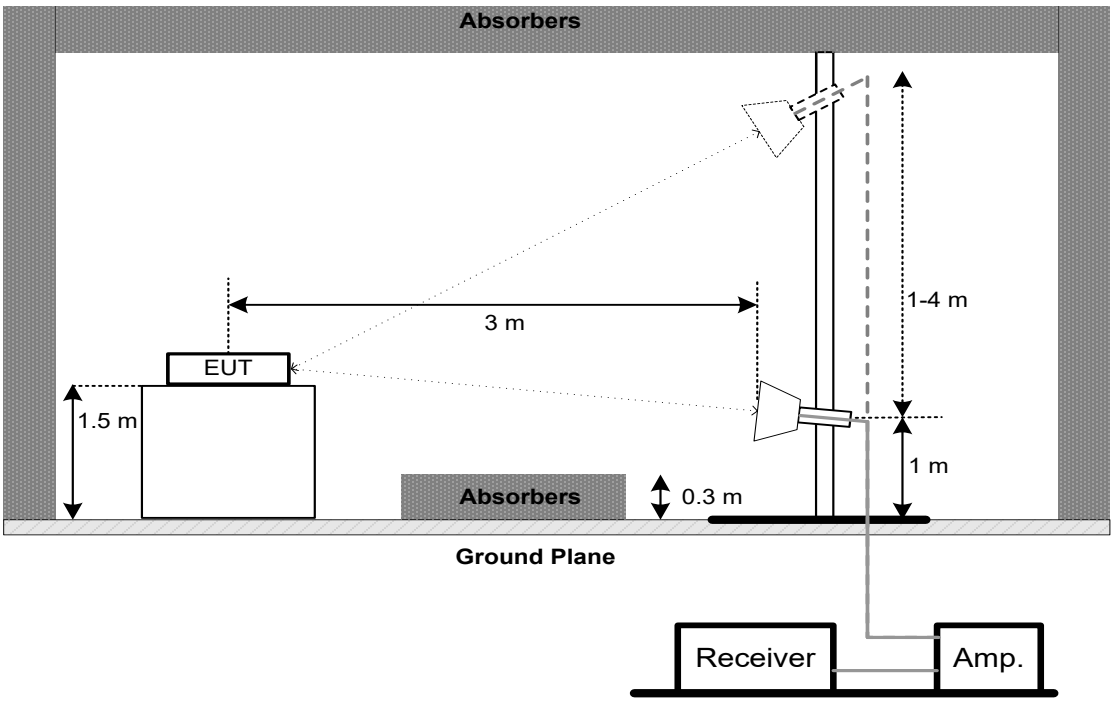
30 MHz to 1 GHz



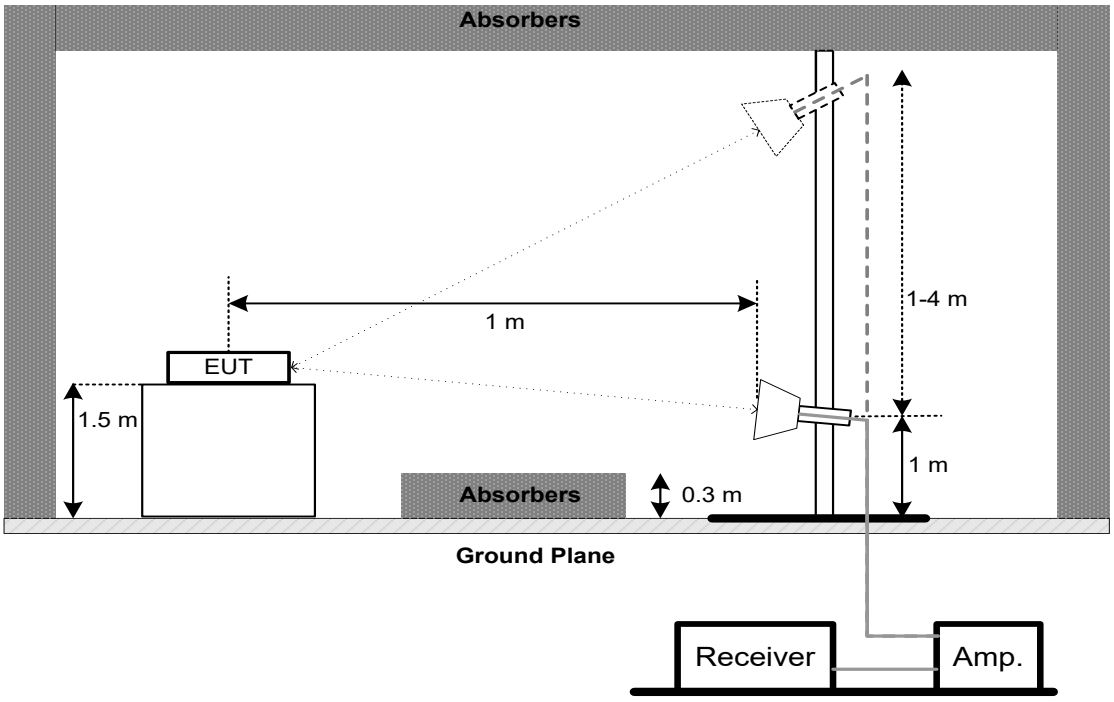
Above 1 GHz
Band edge



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 (specific distance / 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)	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725

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-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 99% Occupied Bandwidth:

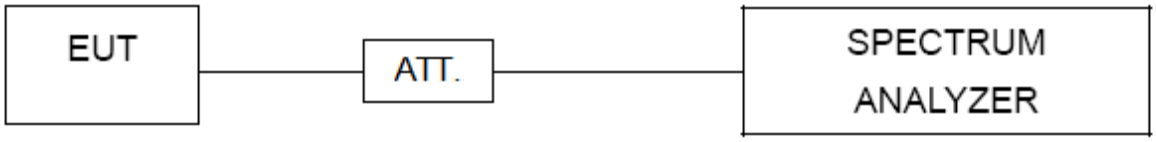
Spectrum Parameter	Setting
Span Frequency	1.5 times to 5 times the OBW
RBW	1% to 5% of the OBW
VBW	≥3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

c. Measured the spectrum width with power higher than 26 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	250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725

Note:

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.

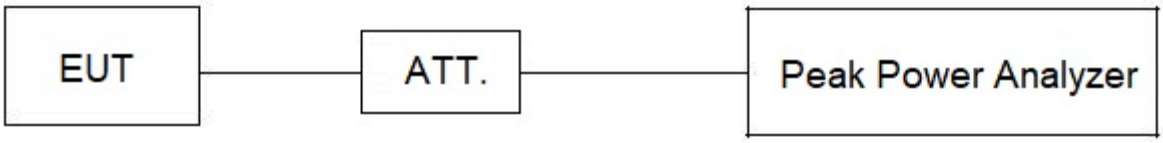
7.2 TEST PROCEDURE

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	11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725

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.

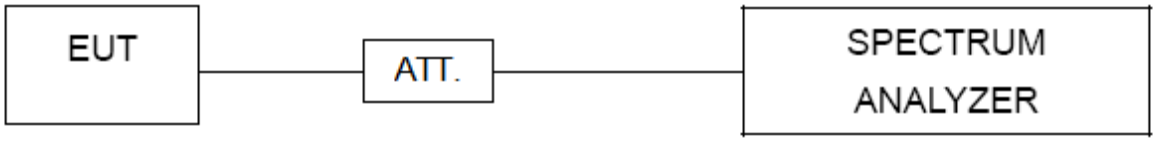
b. Spectrum Setting:
For UNII-2A, UNII-2C:

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

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.	5250-5350
			5470-5725

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

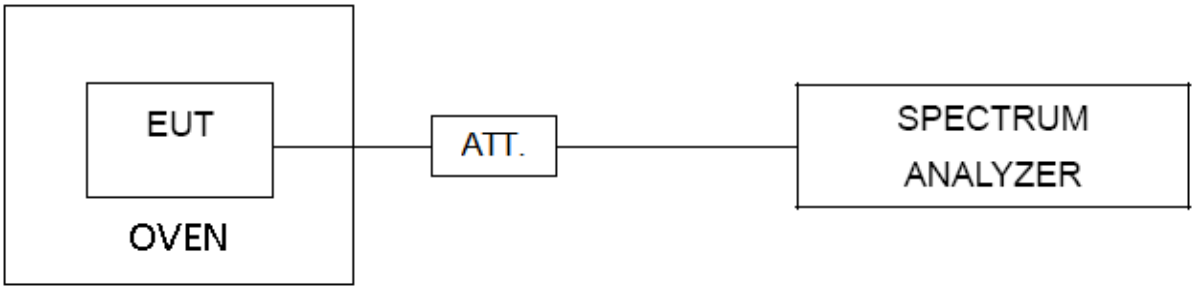
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is 0°C~40°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	ESCI	100382	Dec. 06, 2025
2	TWO-LINE V-NETWORK	R&S	ENV216	101447	Dec. 06, 2025
3	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
4	Cable	N/A	SFT205-NMNM-9M -001	9M	Nov. 11, 2025
5	643 Shield Room	ETS	6*4*3	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Active Loop Antenna	Schwarzbeck	FMZB 1513-60B	1513-60 B-034	Mar. 30, 2025
2	MXE EMI Receiver	Keysight	N9038A	MY56400091	Dec. 06, 2025
3	Cable	N/A	RW4950-3.8A-NMS M-1.5	N/A	Nov. 12, 2025
4	Cable	N/A	LMR400-NMNM-8 M	N/A	Nov. 12, 2025
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	966 Chamber room	ETS	9*6*6	N/A	May 16, 2025

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	1587	Apr. 25, 2025
2	Attenuator	EMC INSTRUMENT	EMCI-N-6-06	AT-06010	Apr. 25, 2025
3	Preamplifier	EMC INSTRUMENT	EMC001330	980865	Oct. 29, 2025
4	Cable	RegalWay	LMR400-NMNM-2. 5m	N/A	Jan. 07, 2026
5	Cable	RegalWay	LMR400-NMNM-7 m	N/A	Jan. 07, 2026
6	Cable	RegalWay	LMR400-NMNM-3 m	N/A	Jan. 07, 2026
7	Receiver	Agilent	N9038A	MY52130039	Jan. 10, 2026
8	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
10	966 Chamber room	ETS	9*6*6	N/A	Jan. 02, 2026

Radiated Emissions - 1 GHz to 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
2	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
3	Cable	RegalWay	RWLP50-4.0A-SMS M-1.3M	N/A	Jan. 07, 2026
4	Cable	RegalWay	RWLP50-2.6A-3.5 M2.92MRA-3M	N/A	Jan. 07, 2026
5	Cable	RegalWay	RWLP50-4.0A-SMS M-9M	N/A	Jan. 07, 2026
6	966 Chamber room	ETS	RFD-100（SVSWR）	Q2179	Jan. 07, 2026
7	Double Ridged Horn Antenna	EMC INSTRUMENT	DRH18-E	210509A18ES	Aug. 28, 2025
8	Preamplifier	EMC INSTRUMENT	EMC118A45SE	981001	May 31, 2025
9	Attenuator	Talent Microwave	TA10A2-S-18	N/A	N/A
10	Filter	STI	STI15-9969	N/A	Oct. 29, 2025

Radiated Emissions - Above 18 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Cable	RegalWay	RWLP50-2.6A-2.92 M2.92M-2M	N/A	Jan. 07, 2026
2	Cable	RegalWay	RWLP50-2.6A-3.5 M2.92MMRA-6M	N/A	Jan. 07, 2026
3	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	1227	Oct. 20, 2025
4	Preamplifier	EMC INSTRUMENT	EMC184045SE	980905	Oct. 29, 2025
5	966 Chamber room	ETS	9*6*6	N/A	Jan. 03, 2026
6	Multi-Device Controller	ETS-Lindgren	N/A	N/A	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	MXA Signal Analyzer	KEYSIGHT	N9020B	MY63380204	Oct. 29, 2025

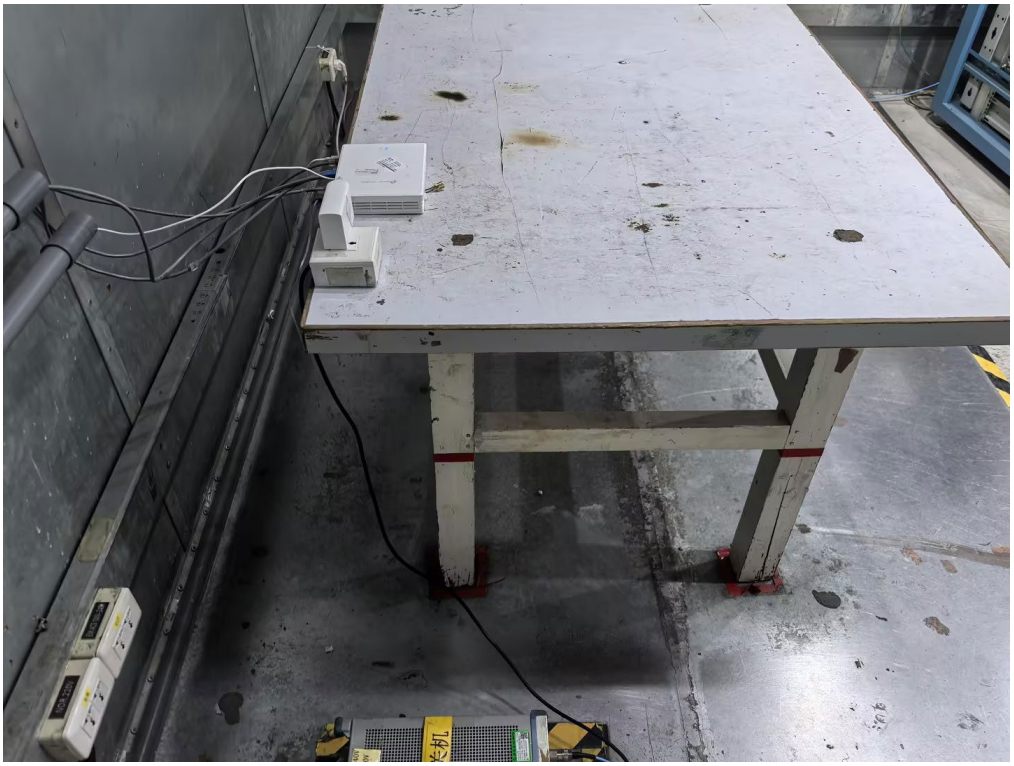
Bandwidth & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Measurement Software	BTL	BTL Conducted Test	N/A	N/A
2	Spectrum Analyzer	R&S	FSP40	100185	May 31, 2025
3	Isolation attenuator	Z-Link	ASMA-16-18-2W	N/A	N/A
4	Desktop Constant Temperature Chamber	BELL	BTH-50C	20170306001	Jan. 10. 2026
5	AC power source	Preen	AFC-S-1250	F123080107	Dec. 06, 2025

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	May 31, 2025
2	Wideband power sensor	Keysight	N1923A	MY58310004	May 31, 2025
3	Isolation attenuator	Z-Link	ASMA-10-18-2W	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.

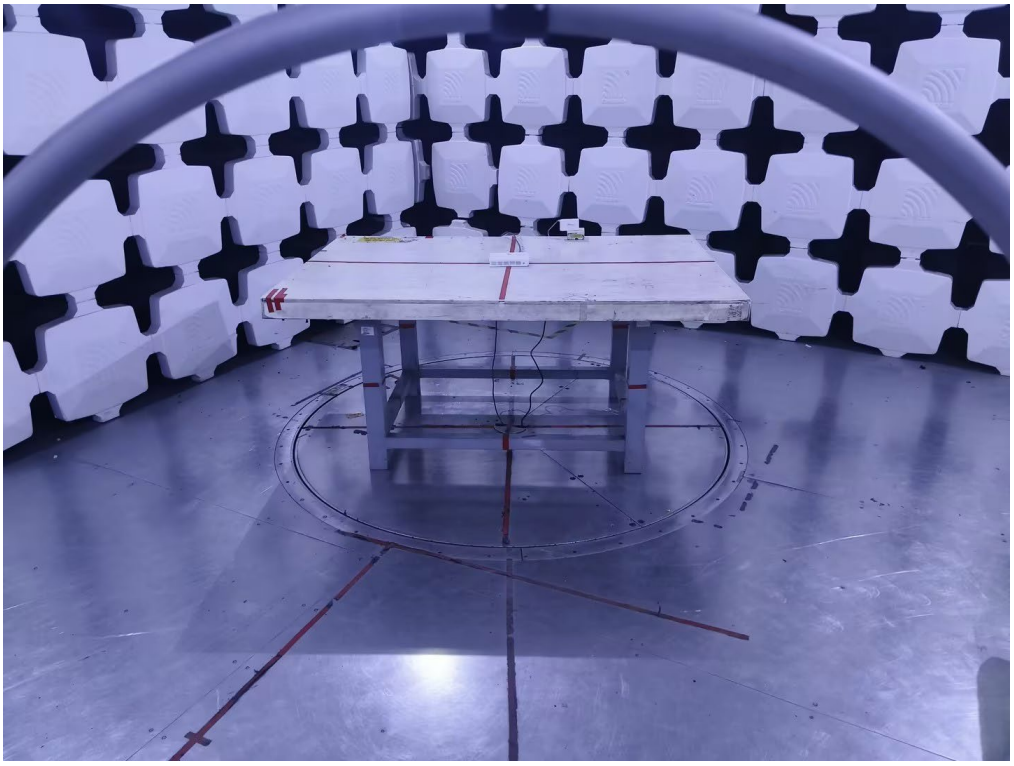
11. EUT TEST PHOTOS

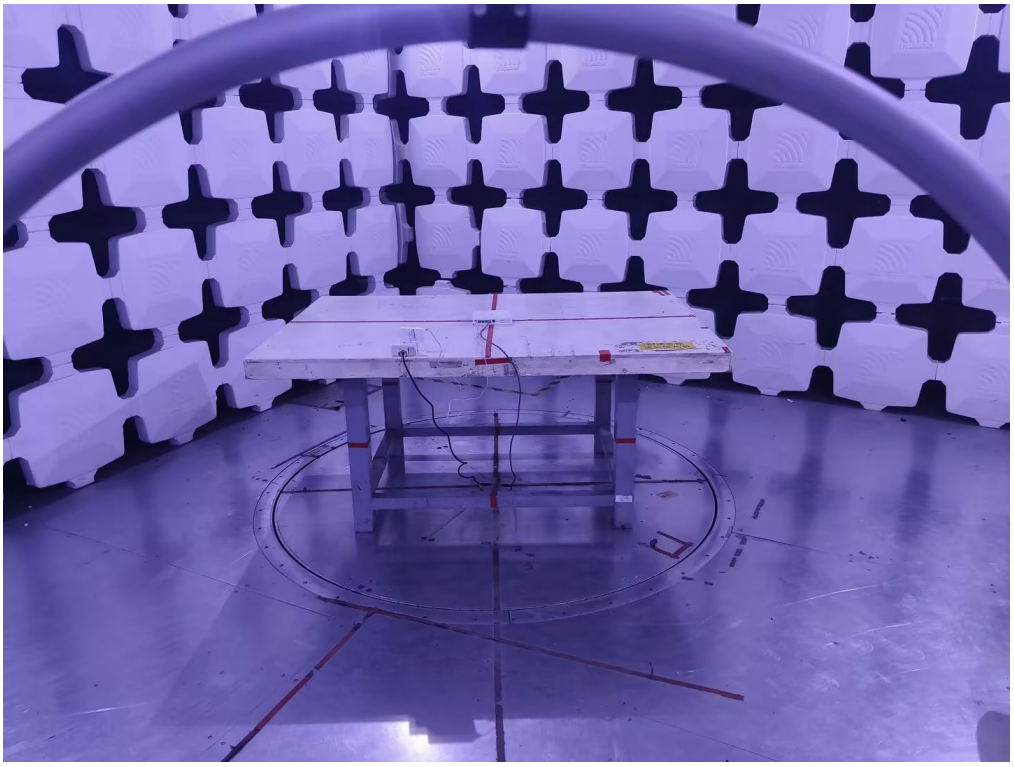
AC Power Line Conducted Emissions Test Photos



Radiated Emissions Test Photos

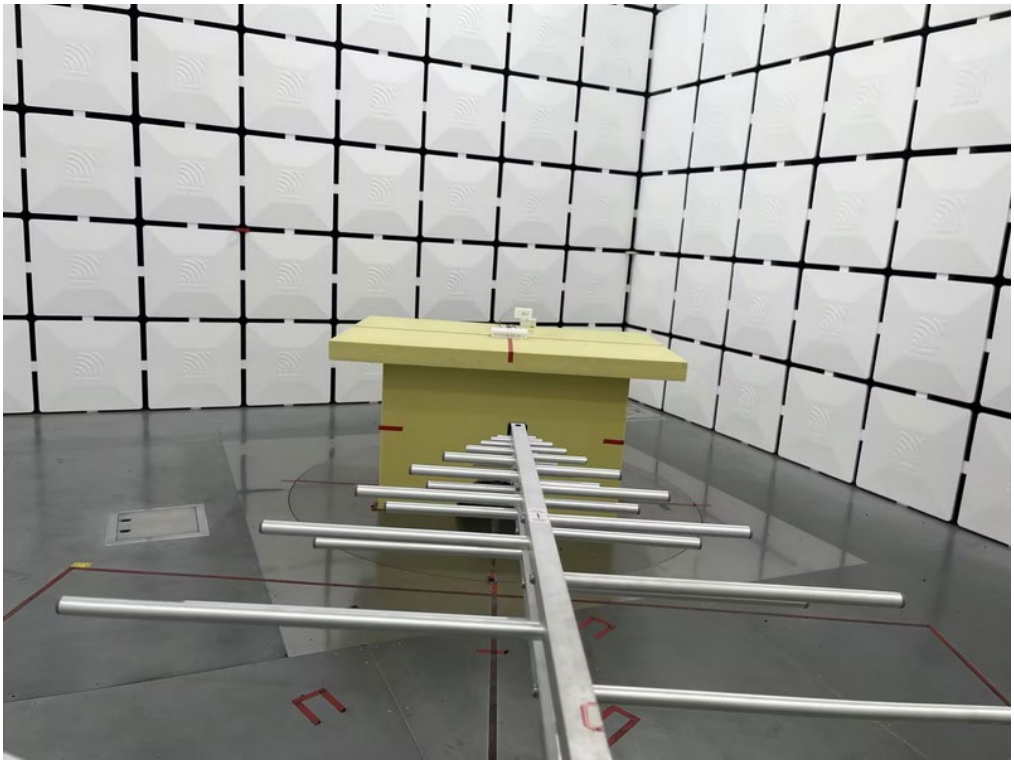
9 kHz to 30 MHz

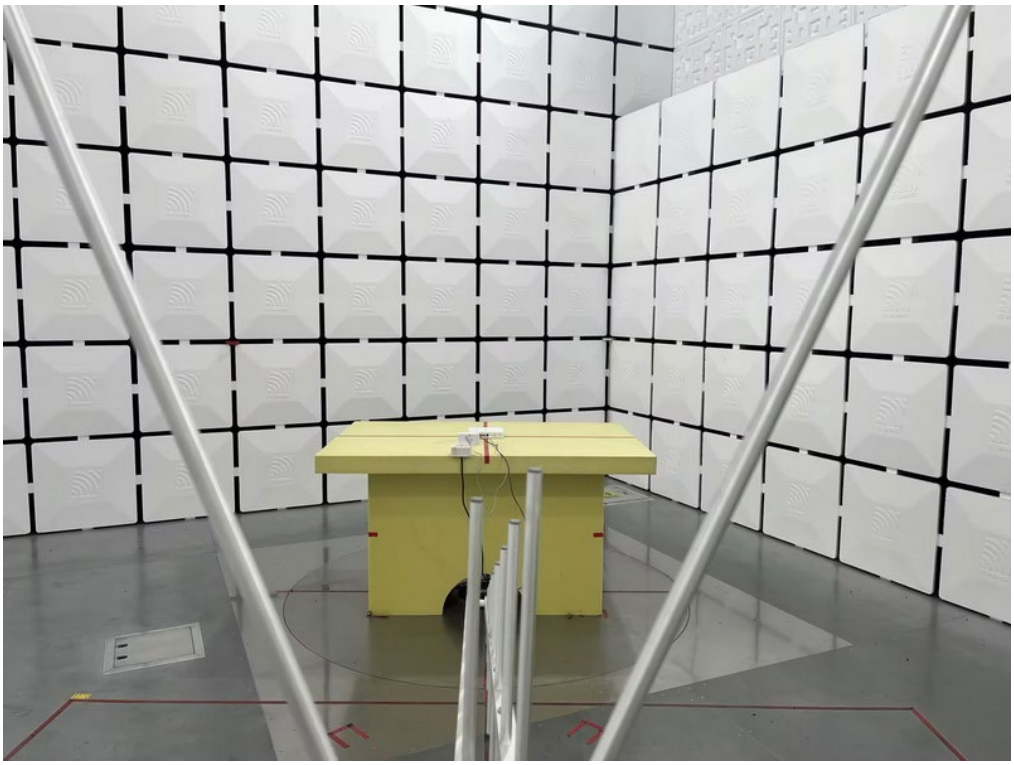




Radiated Emissions Test Photos

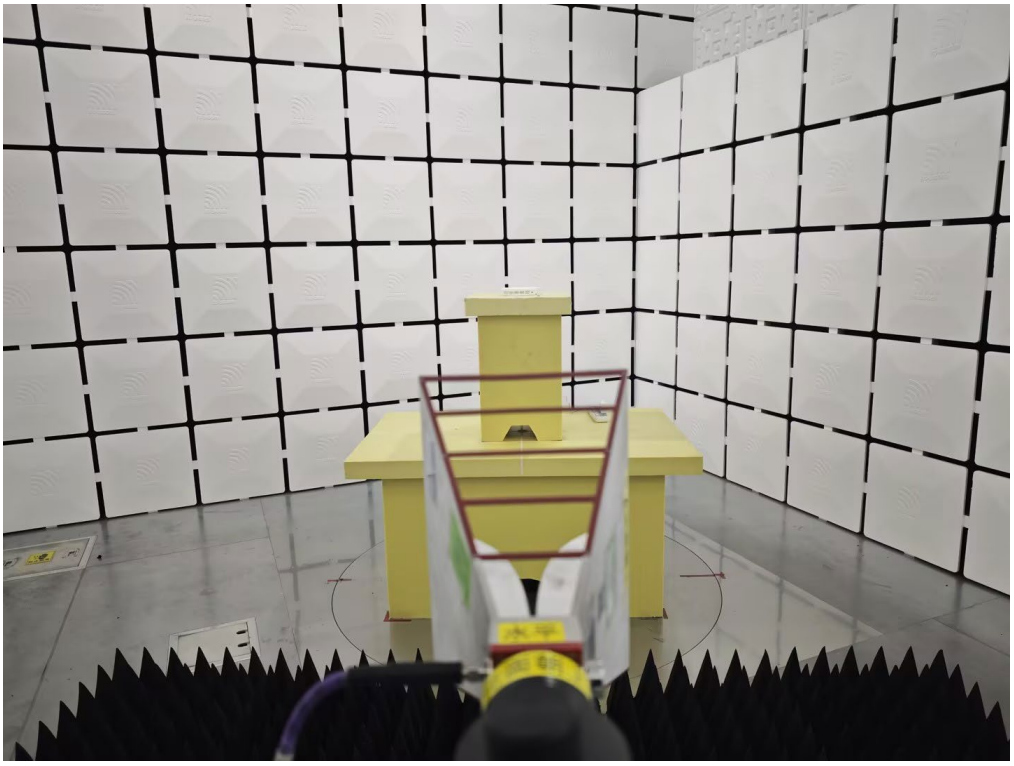
30 MHz to 1 GHz

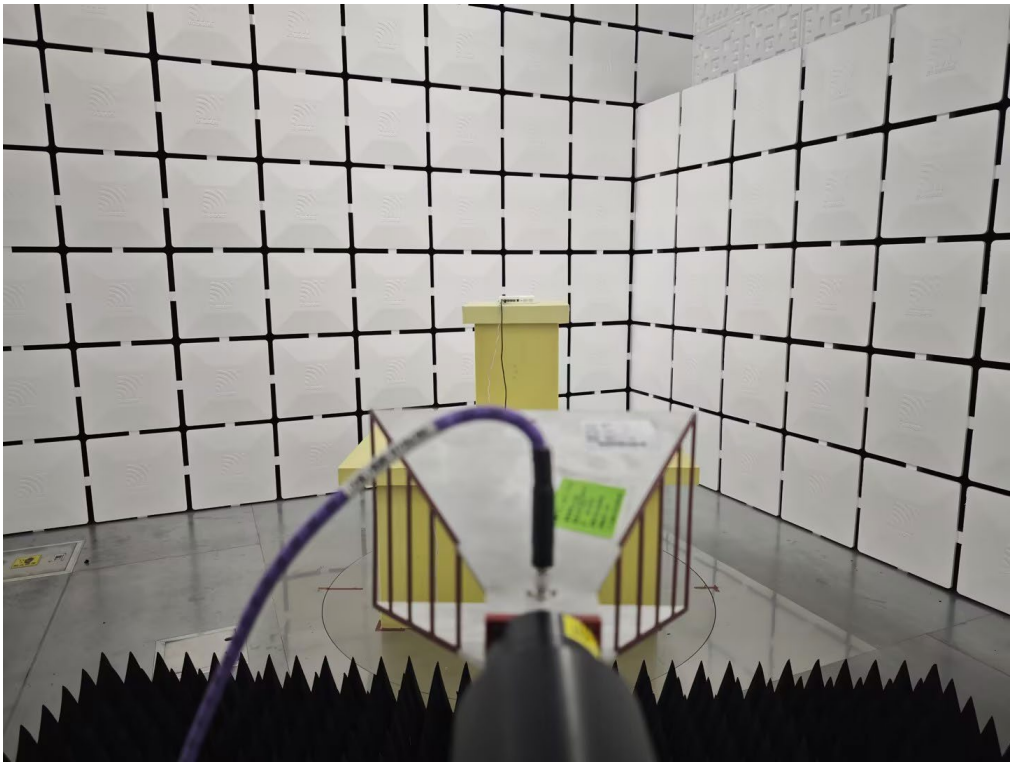




Radiated Emissions Test Photos

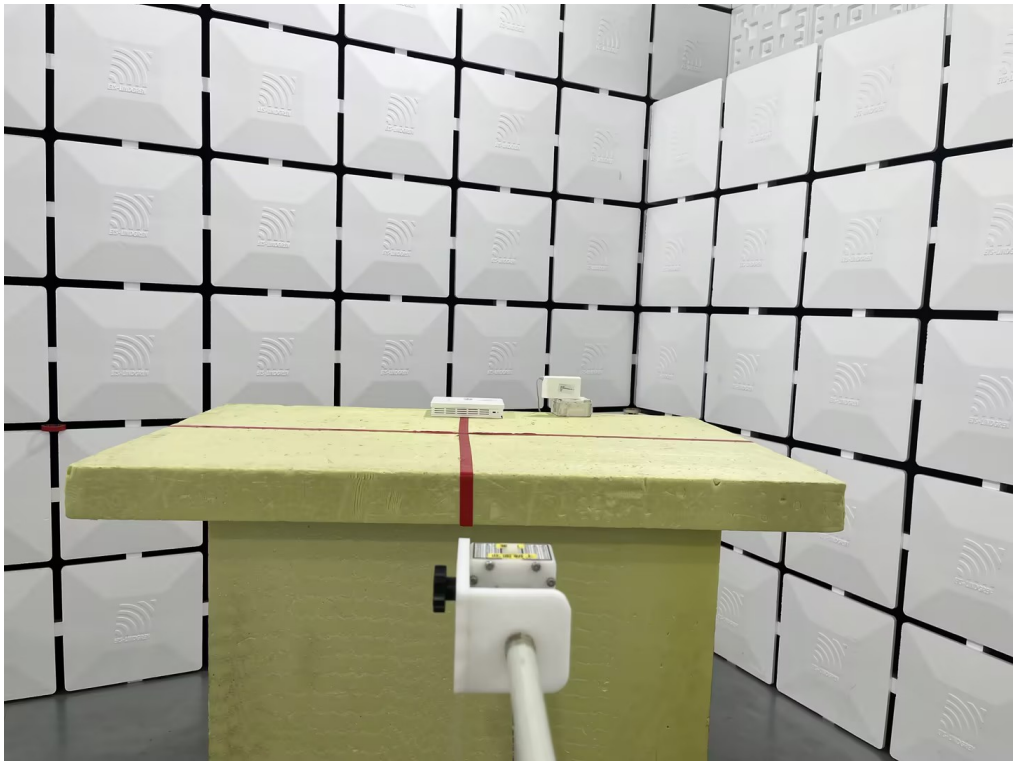
Band Edge & Harmonic 1 GHz-18 GHz

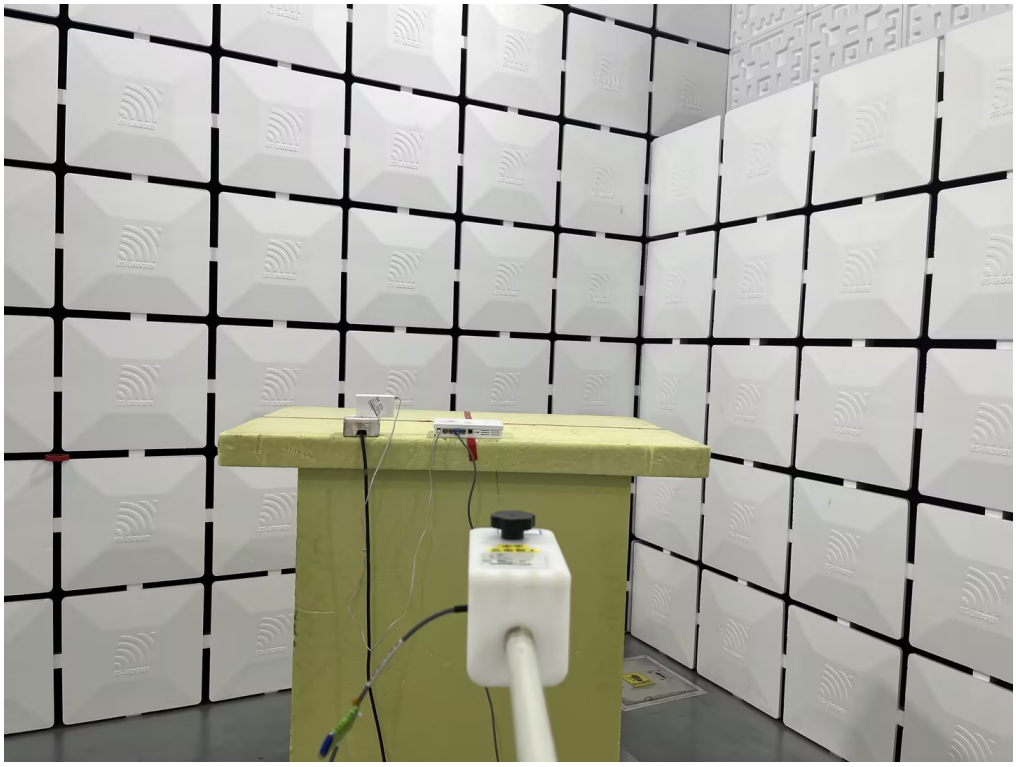




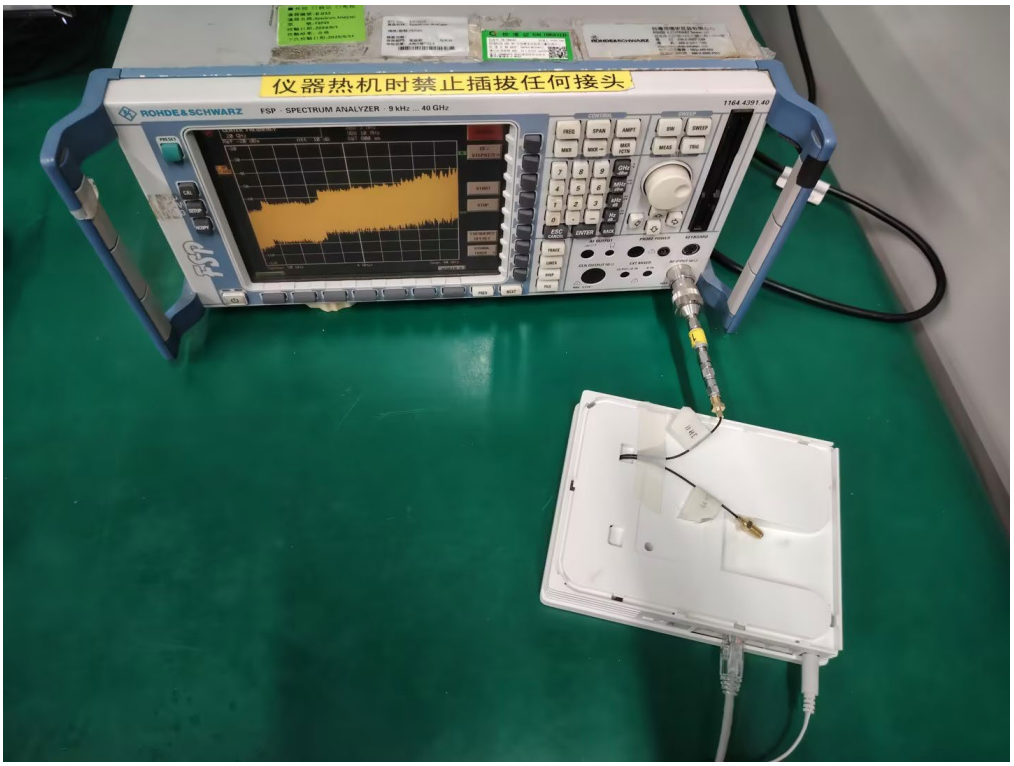
Radiated Emissions Test Photos

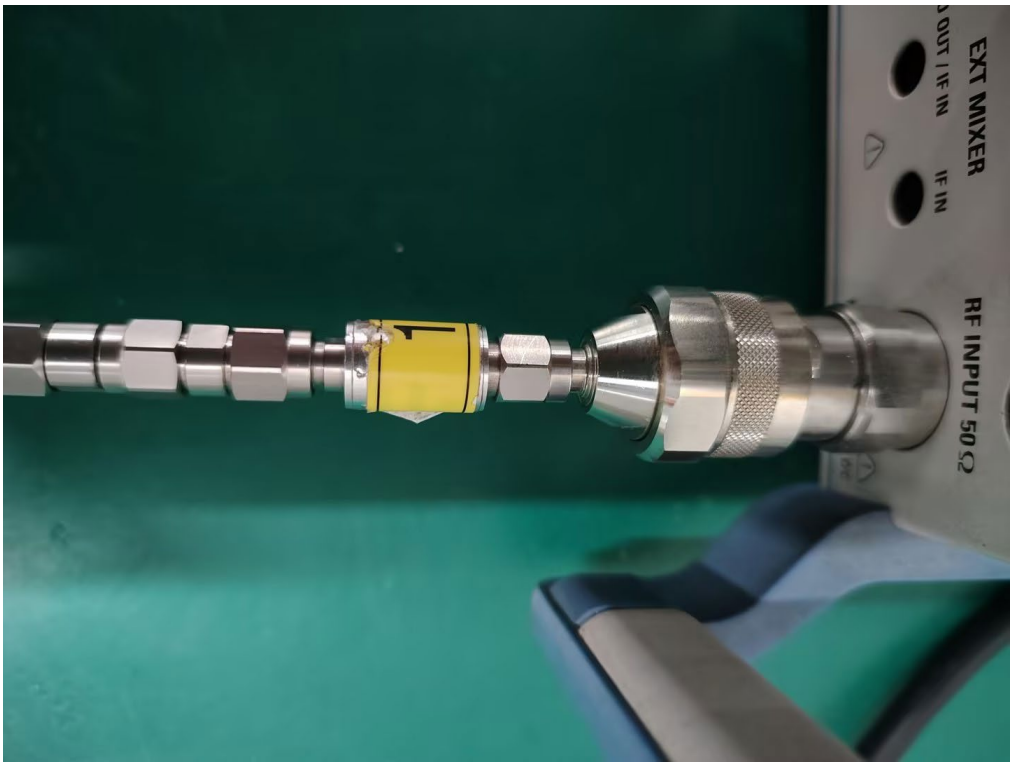
Harmonic Above 18 GHz





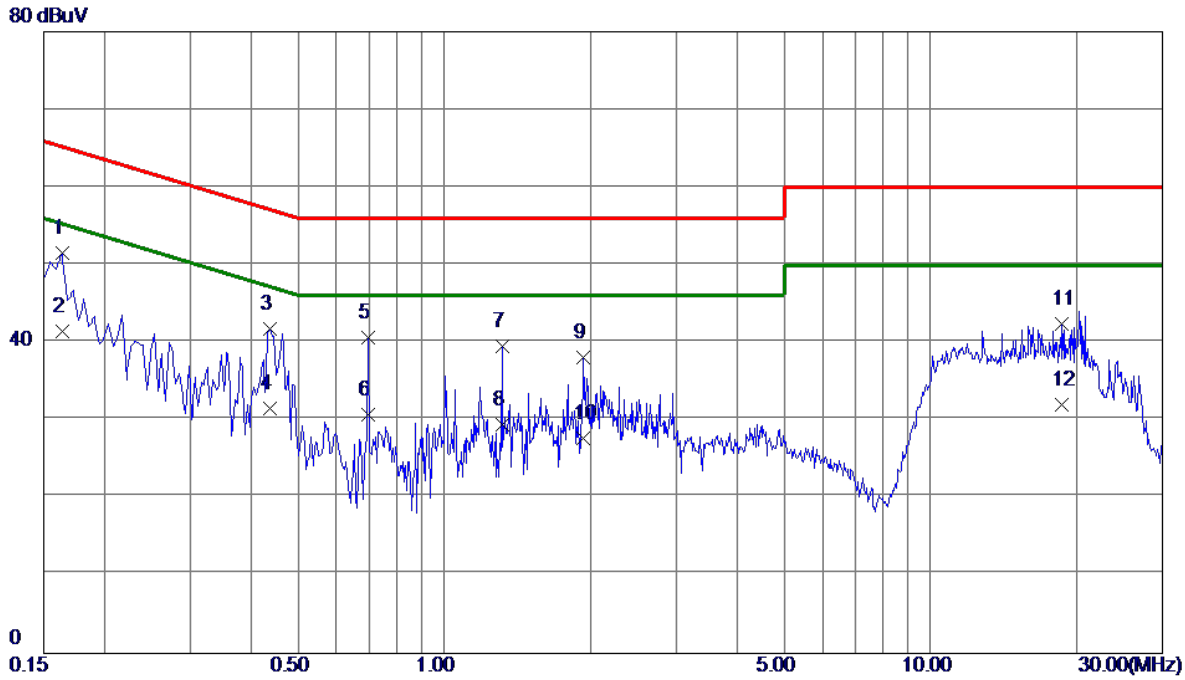
Conducted Test Photos





APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

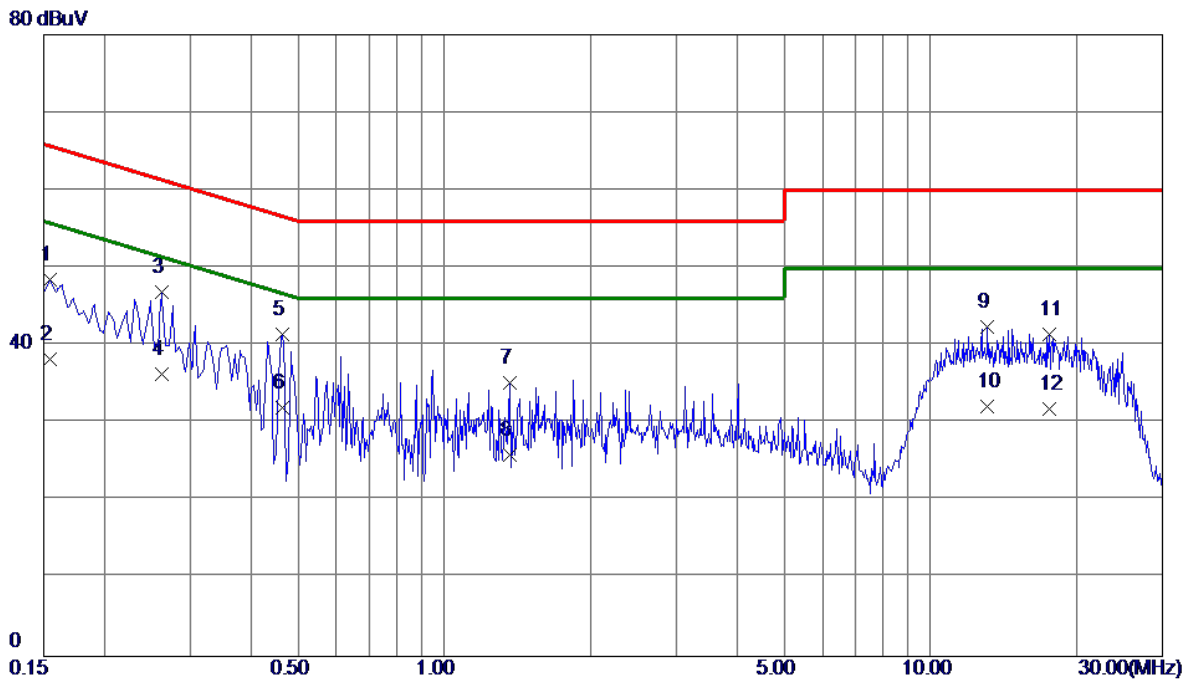
Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Phase	Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1635	41.57	9.92	51.49	65.28	-13.79	QP	
2	0.1635	31.50	9.92	41.42	55.28	-13.86	AVG	
3	0.4380	31.77	9.95	41.72	57.10	-15.38	QP	
4	0.4380	21.59	9.95	31.54	47.10	-15.56	AVG	
5	0.6990	30.65	9.99	40.64	56.00	-15.36	QP	
6	0.6990	20.80	9.99	30.79	46.00	-15.21	AVG	
7	1.3154	29.46	10.09	39.55	56.00	-16.45	QP	
8	1.3154	19.41	10.09	29.50	46.00	-16.50	AVG	
9	1.9320	27.82	10.19	38.01	56.00	-17.99	QP	
10	1.9320	17.50	10.19	27.69	46.00	-18.31	AVG	
11	18.6494	27.63	14.77	42.40	60.00	-17.60	QP	
12	18.6494	17.20	14.77	31.97	50.00	-18.03	AVG	

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

Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Phase	Neutral

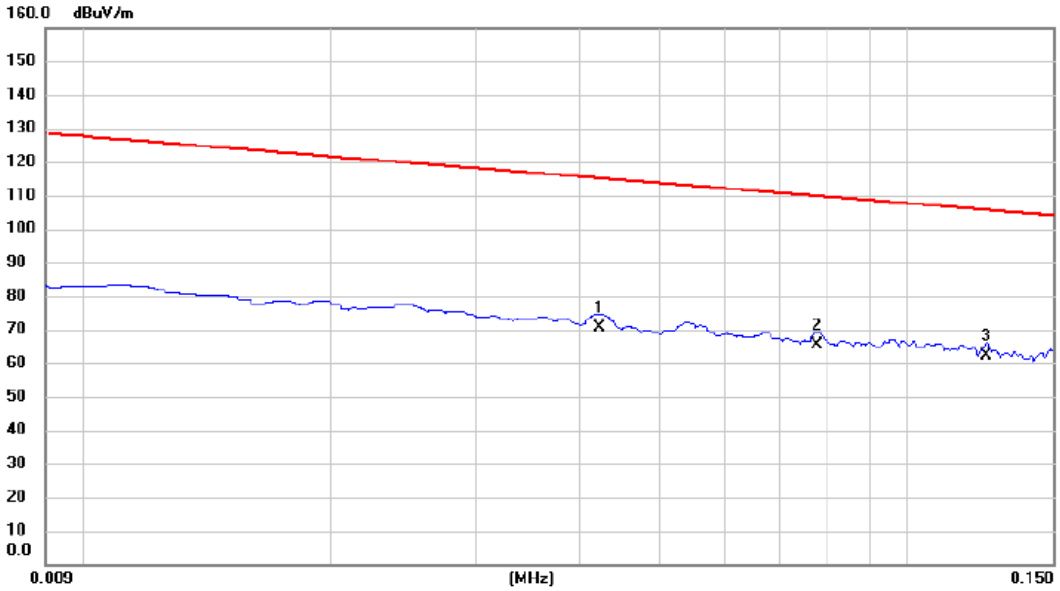


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1545	38.58	9.97	48.55	65.75	-17.20	QP	
2	0.1545	28.31	9.97	38.28	55.75	-17.47	AVG	
3 *	0.2625	36.95	9.98	46.93	61.35	-14.42	QP	
4	0.2625	26.40	9.98	36.38	51.35	-14.97	AVG	
5	0.4650	31.47	10.03	41.50	56.60	-15.10	QP	
6	0.4650	21.90	10.03	31.93	46.60	-14.67	AVG	
7	1.3650	25.11	10.15	35.26	56.00	-20.74	QP	
8	1.3650	15.81	10.15	25.96	46.00	-20.04	AVG	
9	13.0875	29.45	12.97	42.42	60.00	-17.58	QP	
10	13.0875	19.21	12.97	32.18	50.00	-17.82	AVG	
11	17.5335	27.07	14.34	41.41	60.00	-18.59	QP	
12	17.5335	17.51	14.34	31.85	50.00	-18.15	AVG	

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

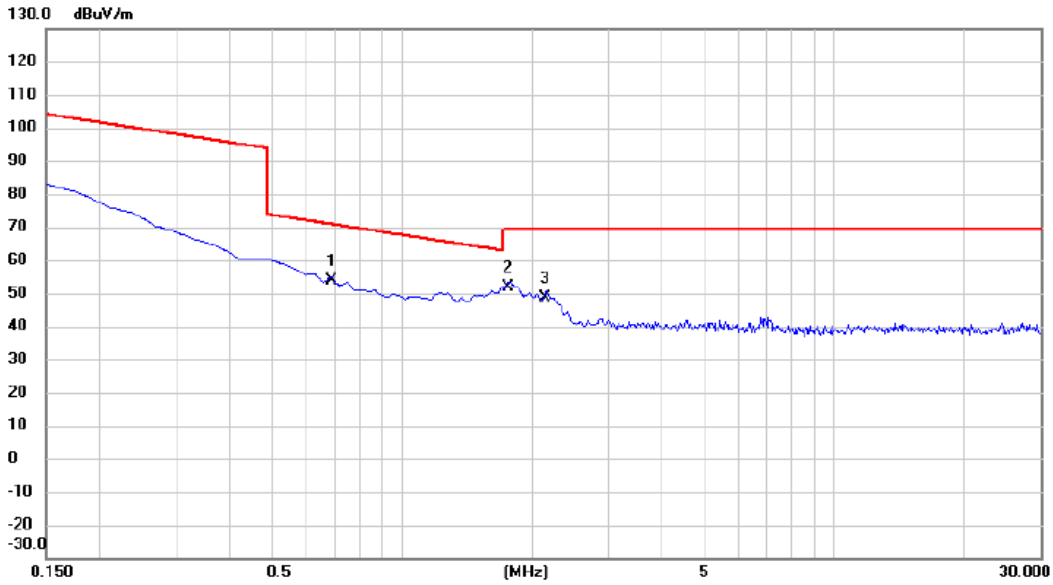
Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Polarization	Ant 0°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.042	49.36	21.20	70.56	115.08	-44.52	AVG	
2	0.078	44.26	21.33	65.59	109.80	-44.21	AVG	
3 *	0.125	40.83	21.30	62.13	105.68	-43.55	AVG	

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

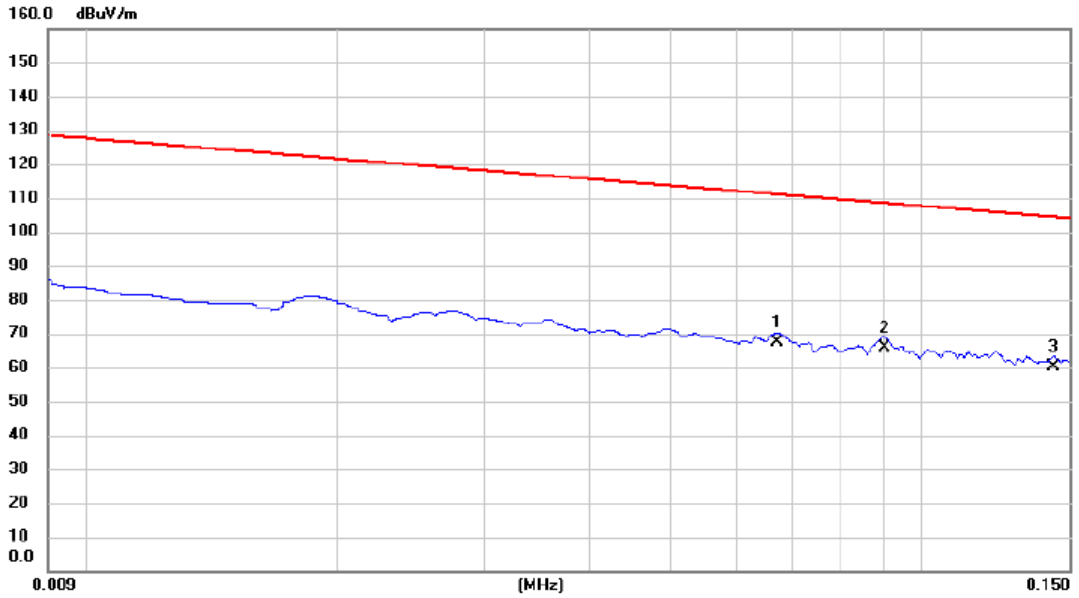
Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Polarization	Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.687	32.62	21.12	53.74	70.86	-17.12	QP	
2		1.762	30.58	21.13	51.71	69.54	-17.83	QP	
3		2.150	27.41	21.11	48.52	69.54	-21.02	QP	

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

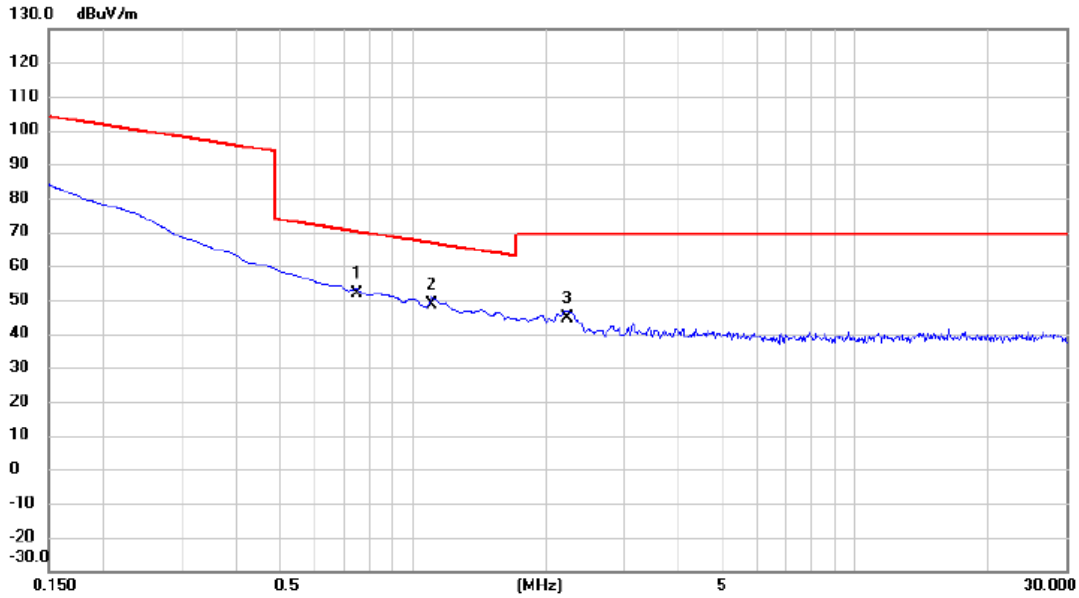
Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Polarization	Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.067	46.21	21.30	67.51	111.08	-43.57	AVG	
2	*	0.090	44.35	21.34	65.69	108.51	-42.82	QP	
3		0.144	38.98	21.27	60.25	104.45	-44.20	AVG	

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

Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Polarization	Ant 90°

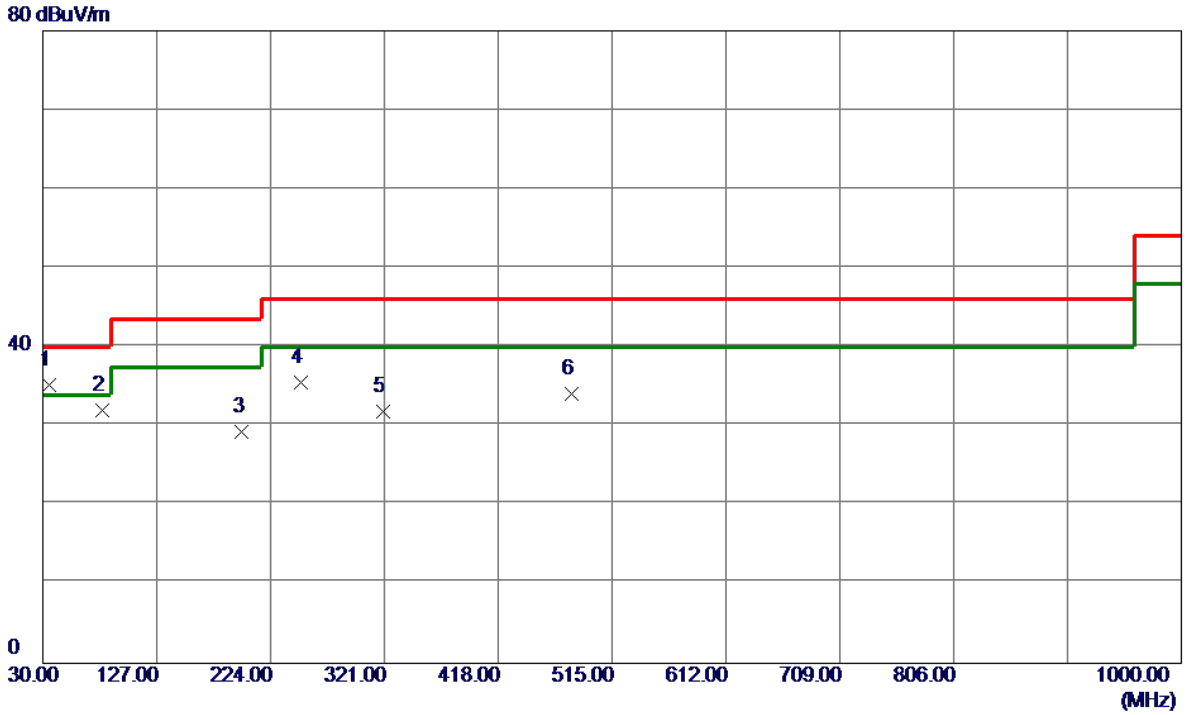


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.747	30.48	21.14	51.62	70.14	-18.52	QP	
2	*	1.105	27.54	21.19	48.73	66.74	-18.01	QP	
3		2.240	23.63	21.11	44.74	69.54	-24.80	QP	

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

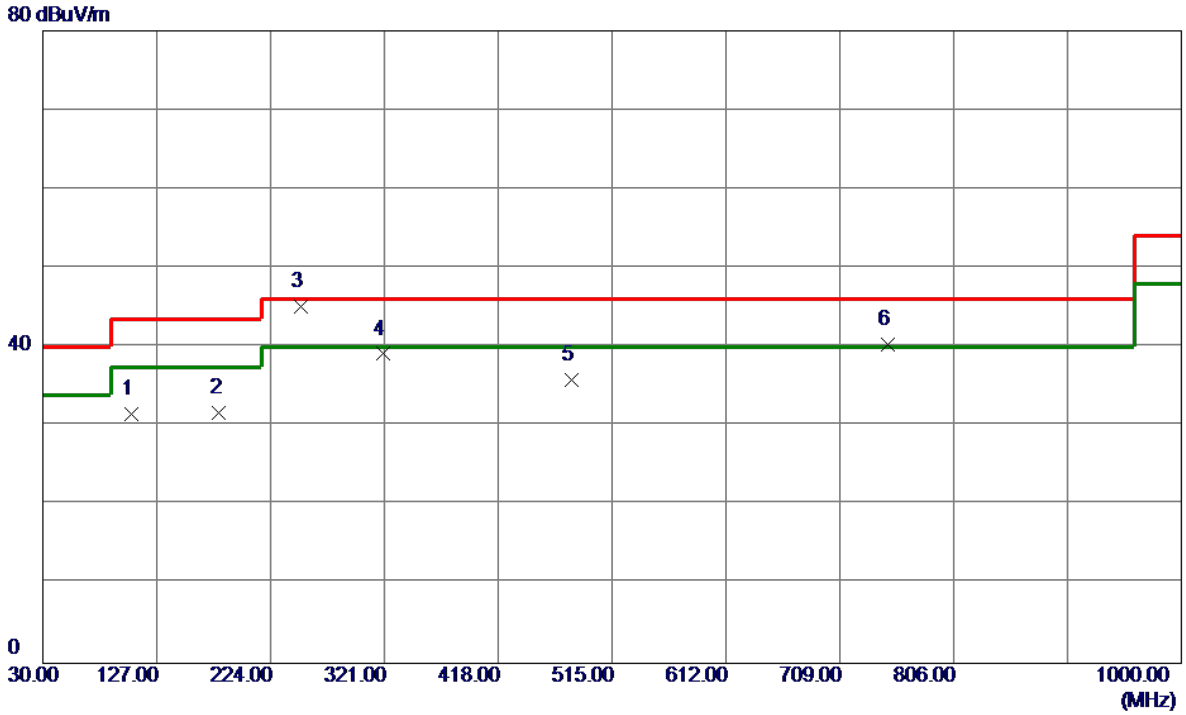
Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	35.8200	47.46	-12.26	35.20	40.00	-4.80	Peak	
2	80.4400	47.96	-16.01	31.95	40.00	-8.05	Peak	
3	199.7500	43.86	-14.65	29.21	43.50	-14.29	Peak	
4	250.1900	48.20	-12.65	35.55	46.00	-10.45	Peak	
5	320.0300	42.06	-10.21	31.85	46.00	-14.15	Peak	
6	480.0800	40.69	-6.58	34.11	46.00	-11.89	Peak	

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

Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Polarization	Horizontal

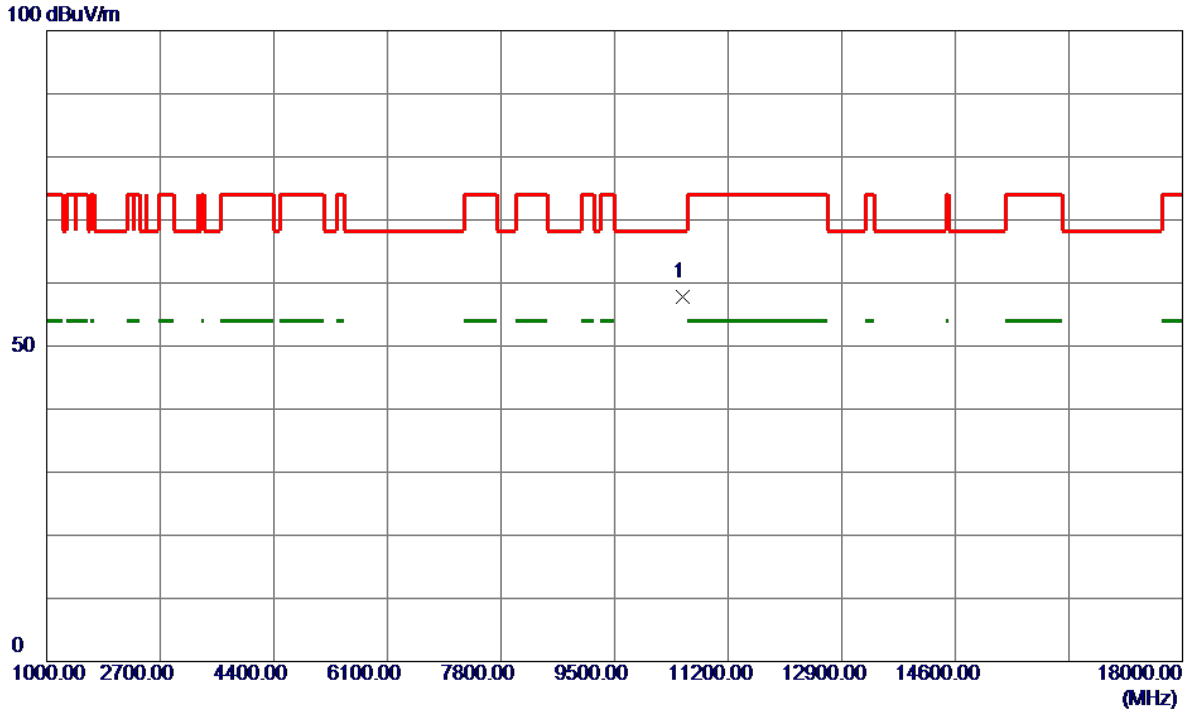


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	105.6600	46.68	-15.10	31.58	43.50	-11.92	Peak	
2	180.3500	44.73	-13.00	31.73	43.50	-11.77	Peak	
3 *	250.1900	57.84	-12.65	45.19	46.00	-0.81	Peak	
4	320.0300	49.33	-10.21	39.12	46.00	-6.88	Peak	
5	480.0800	42.39	-6.58	35.81	46.00	-10.19	Peak	
6	749.7400	42.09	-1.80	40.29	46.00	-5.71	Peak	

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

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

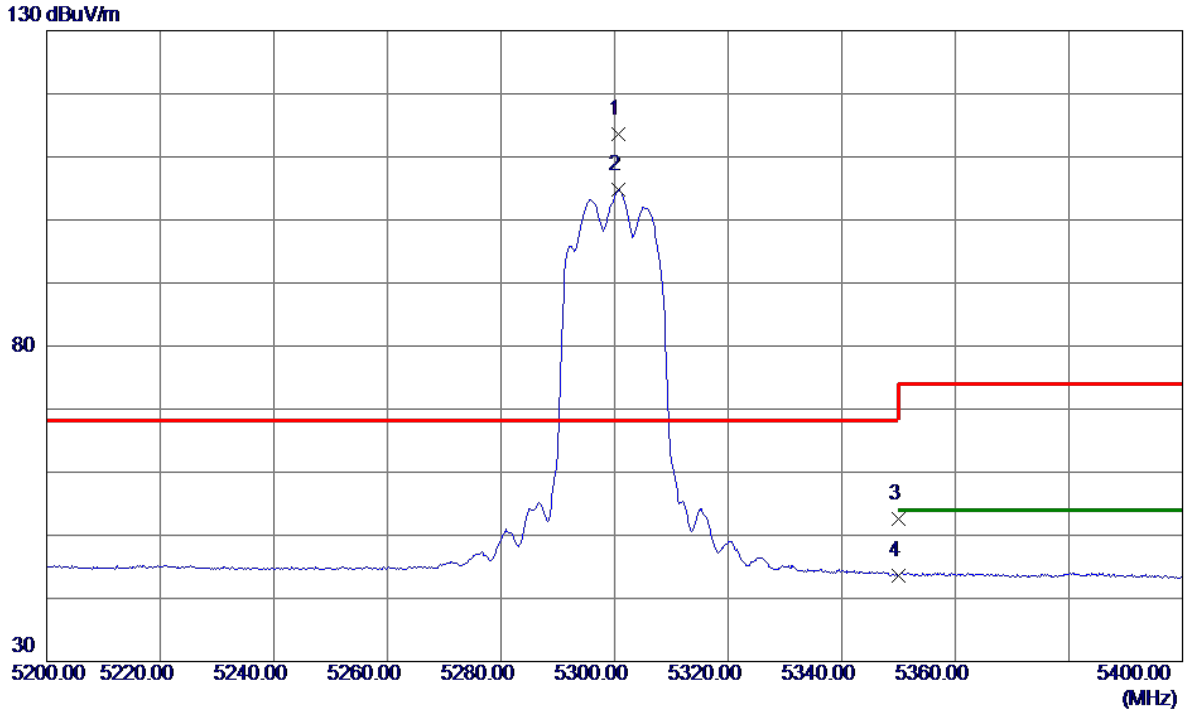
Test Mode	UNII-2A_TX A Mode 5260 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10518.8000	46.92	10.82	57.74	68.20	-10.46	Peak	

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

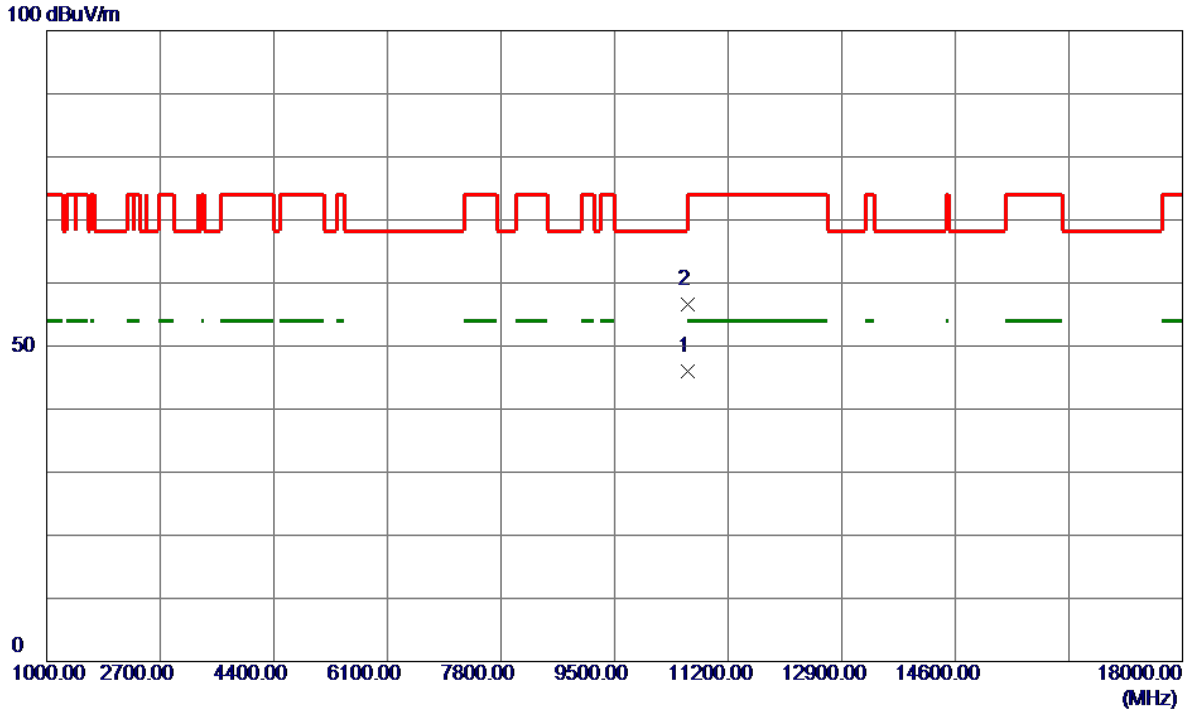
Test Mode	UNII-2A_TX A Mode 5300 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5300.6000	99.24	14.33	113.57	68.20	45.37	Peak	No Limit
2	5300.6000	90.41	14.33	104.74	999.00	-894.26	AVG	No Limit
3	5350.0000	38.32	14.33	52.65	74.00	-21.35	Peak	
4	5350.0000	29.32	14.33	43.65	54.00	-10.35	AVG	

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

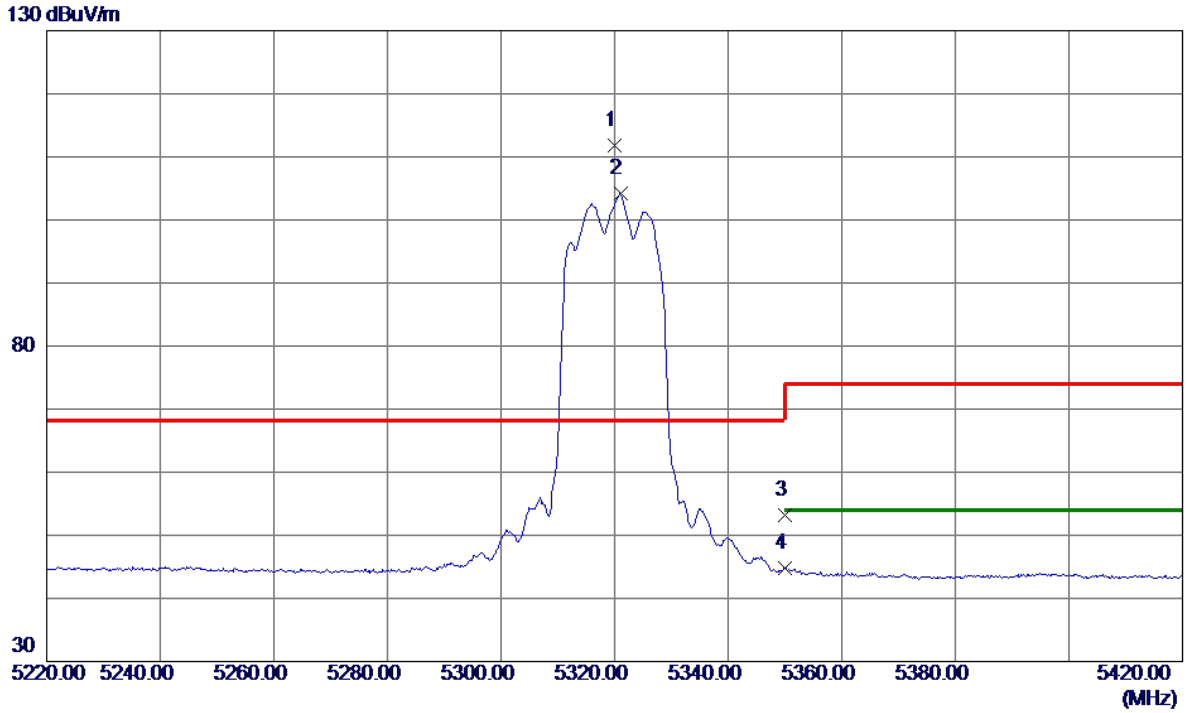
Test Mode	UNII-2A_TX A Mode 5300 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10602.4000	35.05	10.86	45.91	54.00	-8.09	AVG	
2	10602.9000	45.65	10.86	56.51	74.00	-17.49	Peak	

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

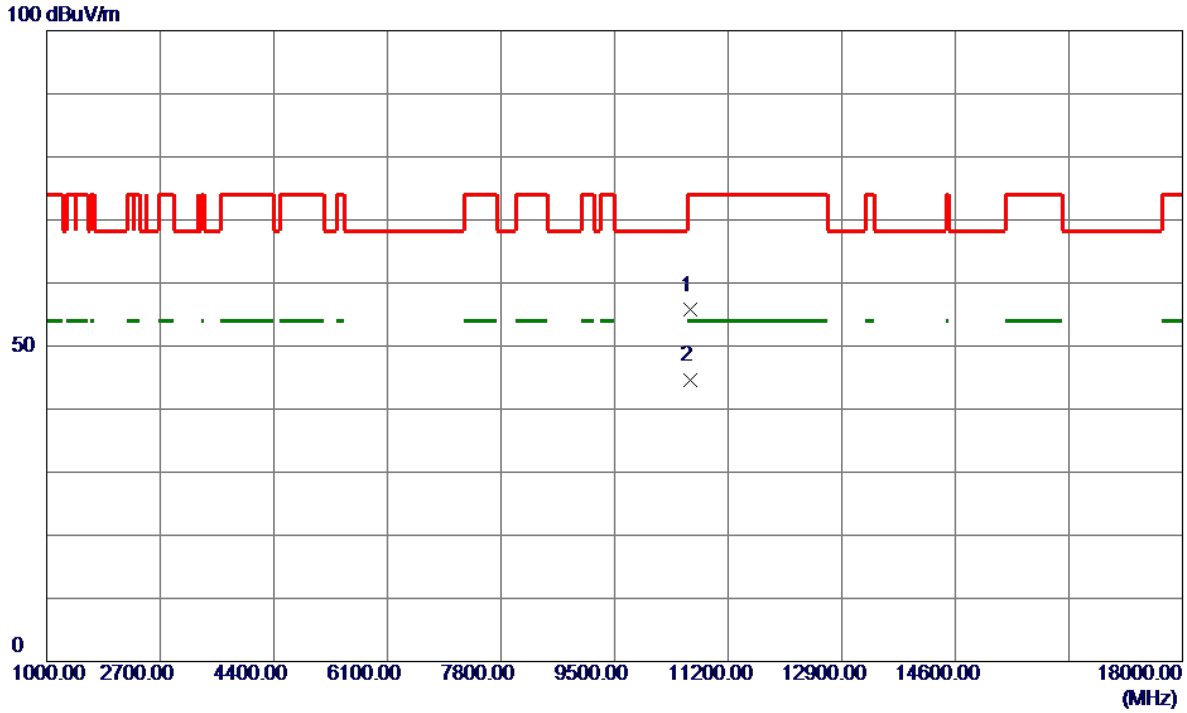
Test Mode	UNII-2A_TX A Mode 5320 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5320.0000	97.48	14.33	111.81	68.20	43.61	Peak	No Limit
2	5321.0000	89.80	14.33	104.13	999.00	-894.87	AVG	No Limit
3	5350.0000	38.87	14.33	53.20	74.00	-20.80	Peak	
4	5350.0000	30.48	14.33	44.81	54.00	-9.19	AVG	

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

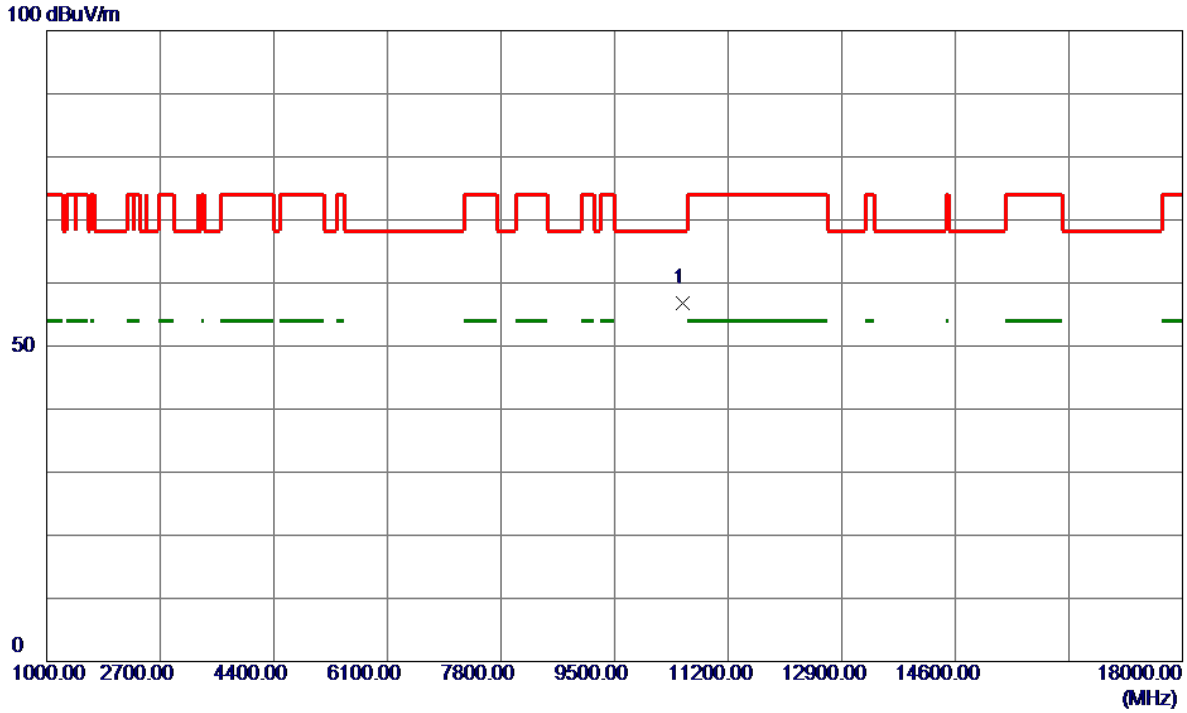
Test Mode	UNII-2A_TX A Mode 5320 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10641.2000	44.83	10.87	55.70	74.00	-18.30	Peak	
2 *	10641.2000	33.81	10.87	44.68	54.00	-9.32	AVG	

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

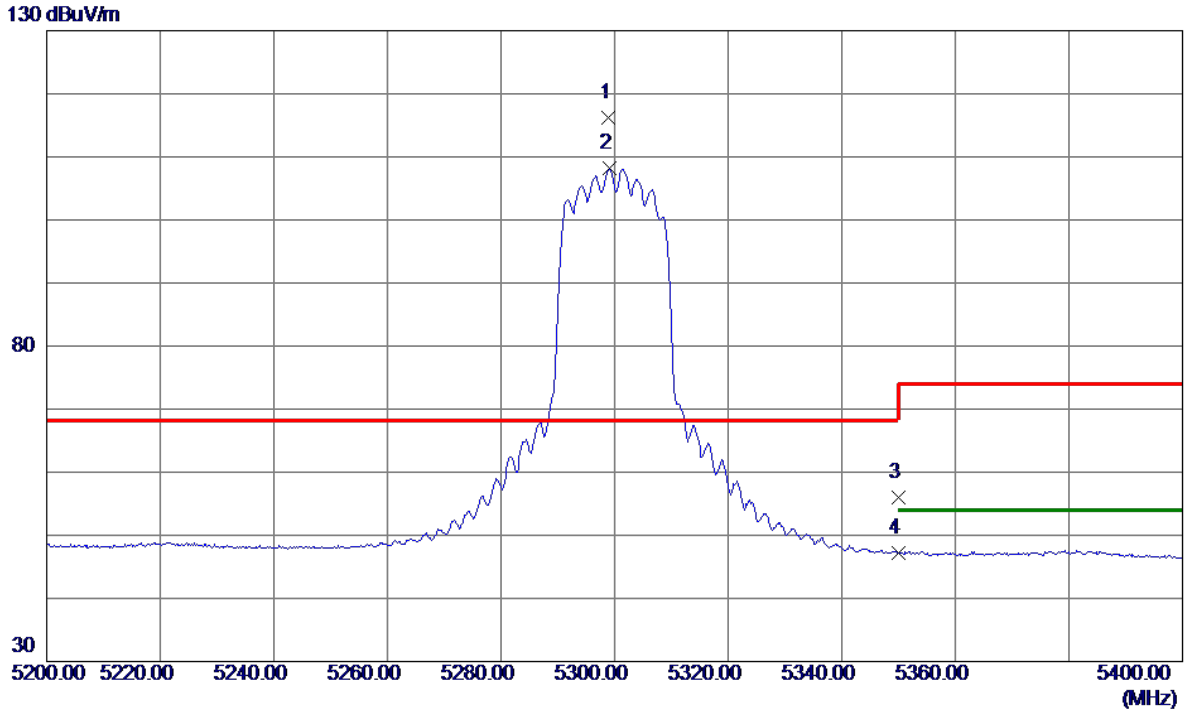
Test Mode	UNII-2A_TX AC(VHT20) Mode 5260 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10522.0000	45.96	10.82	56.78	68.20	-11.42	Peak	

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

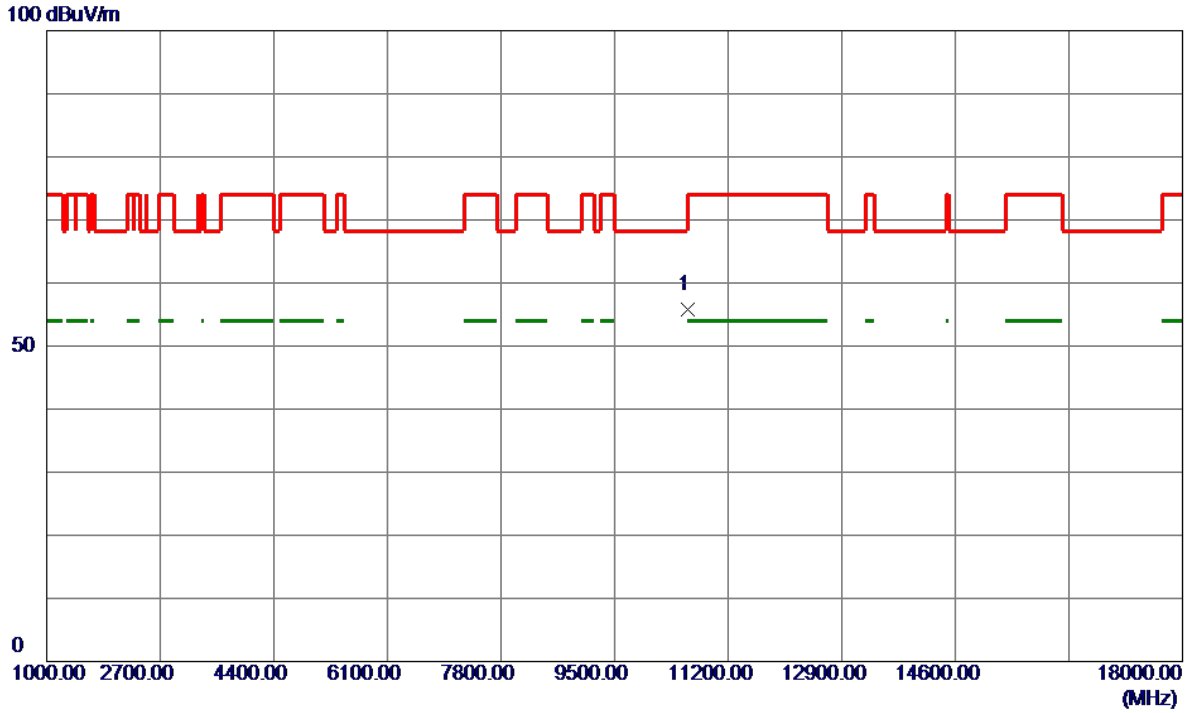
Test Mode	UNII-2A_TX AC(VHT20) Mode 5300 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5299.0000	101.96	14.33	116.29	68.20	48.09	Peak	No Limit
2	5299.2000	93.91	14.33	108.24	999.00	-890.76	AVG	No Limit
3	5350.0000	41.71	14.33	56.04	74.00	-17.96	Peak	
4	5350.0000	32.83	14.33	47.16	54.00	-6.84	AVG	

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

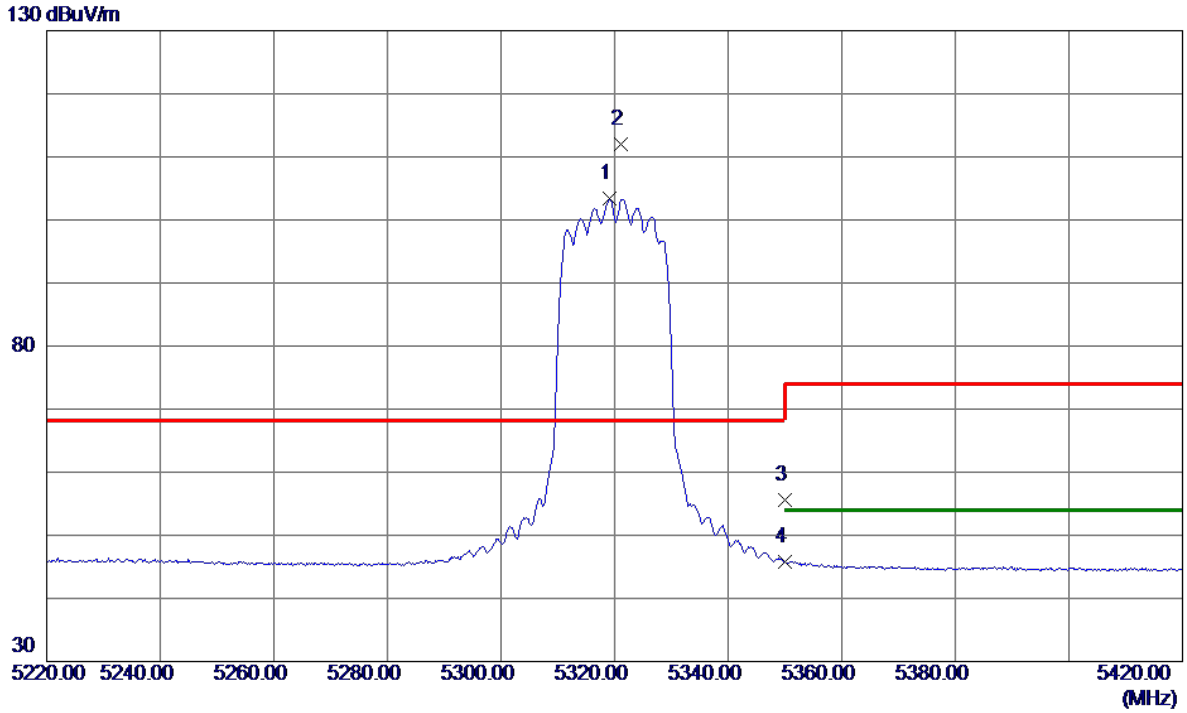
Test Mode	UNII-2A_TX AC(VHT20) Mode 5300 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10597.1000	45.01	10.85	55.86	68.20	-12.34	Peak	

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

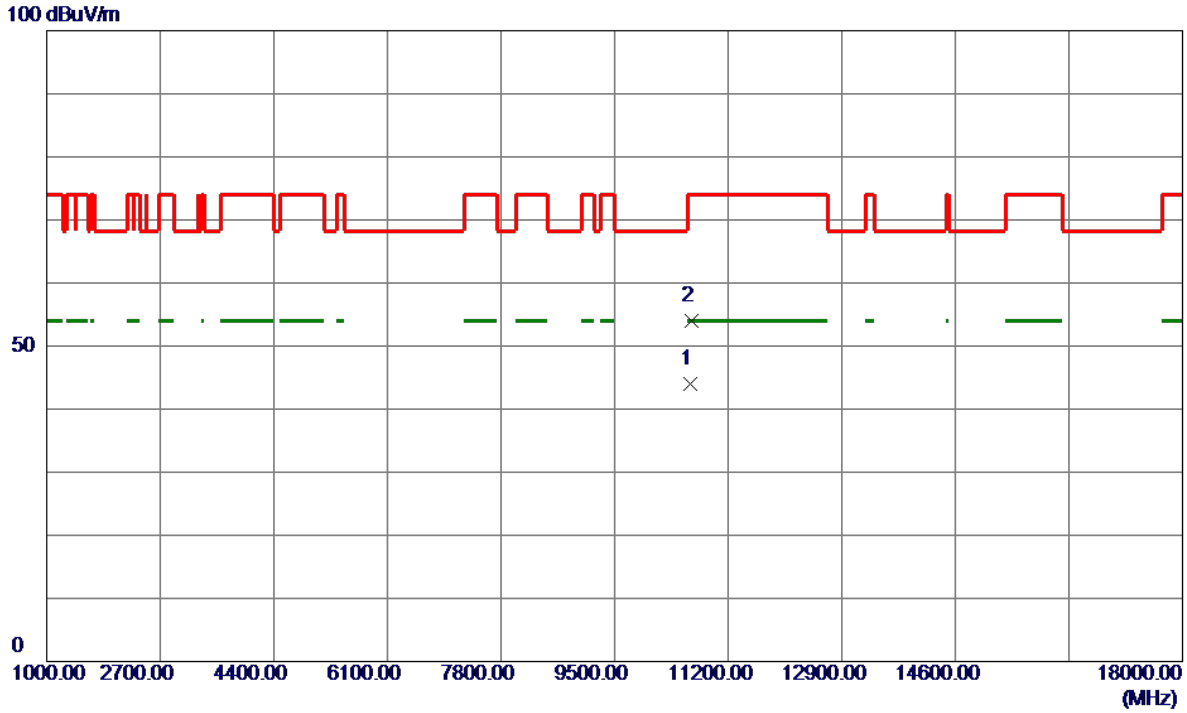
Test Mode	UNII-2A_TX AC(VHT20) Mode 5320 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5319.2000	88.98	14.33	103.31	999.00	-895.69	AVG	No Limit
2 *	5321.2000	97.67	14.33	112.00	68.20	43.80	Peak	No Limit
3	5350.0000	41.30	14.33	55.63	74.00	-18.37	Peak	
4	5350.0000	31.44	14.33	45.77	54.00	-8.23	AVG	

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

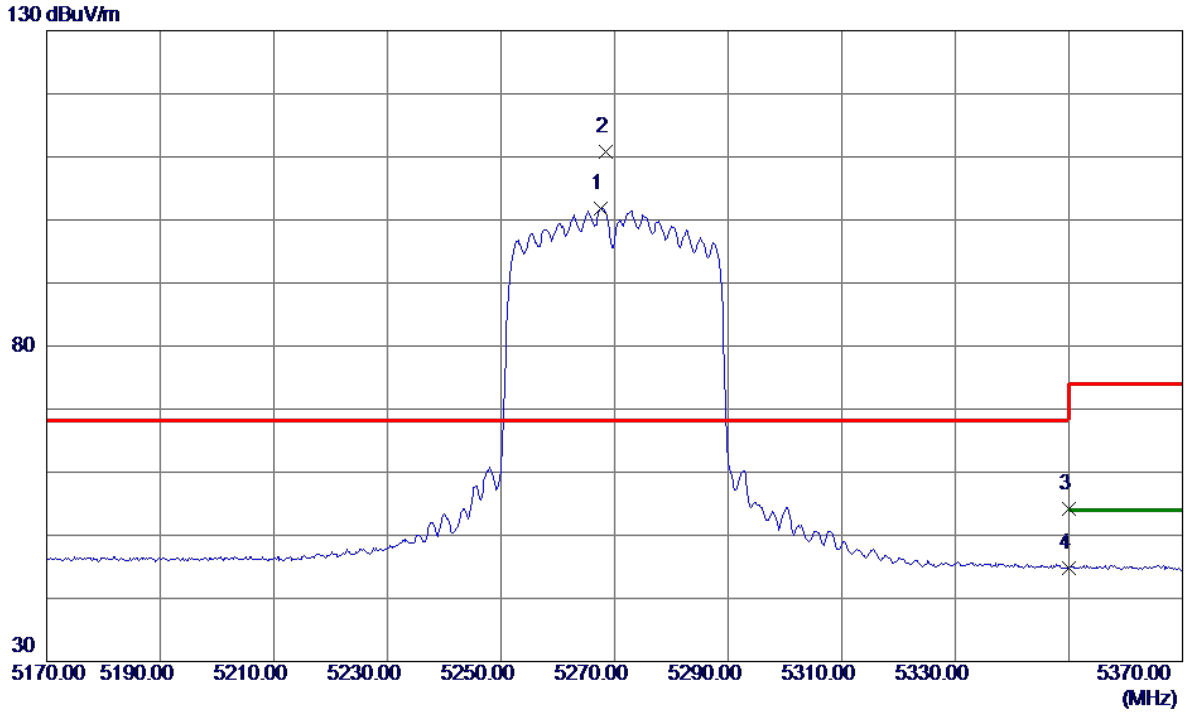
Test Mode	UNII-2A_TX AC(VHT20) Mode 5320 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10641.4000	33.17	10.87	44.04	54.00	-9.96	AVG	
2	10643.2000	43.03	10.88	53.91	74.00	-20.09	Peak	

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

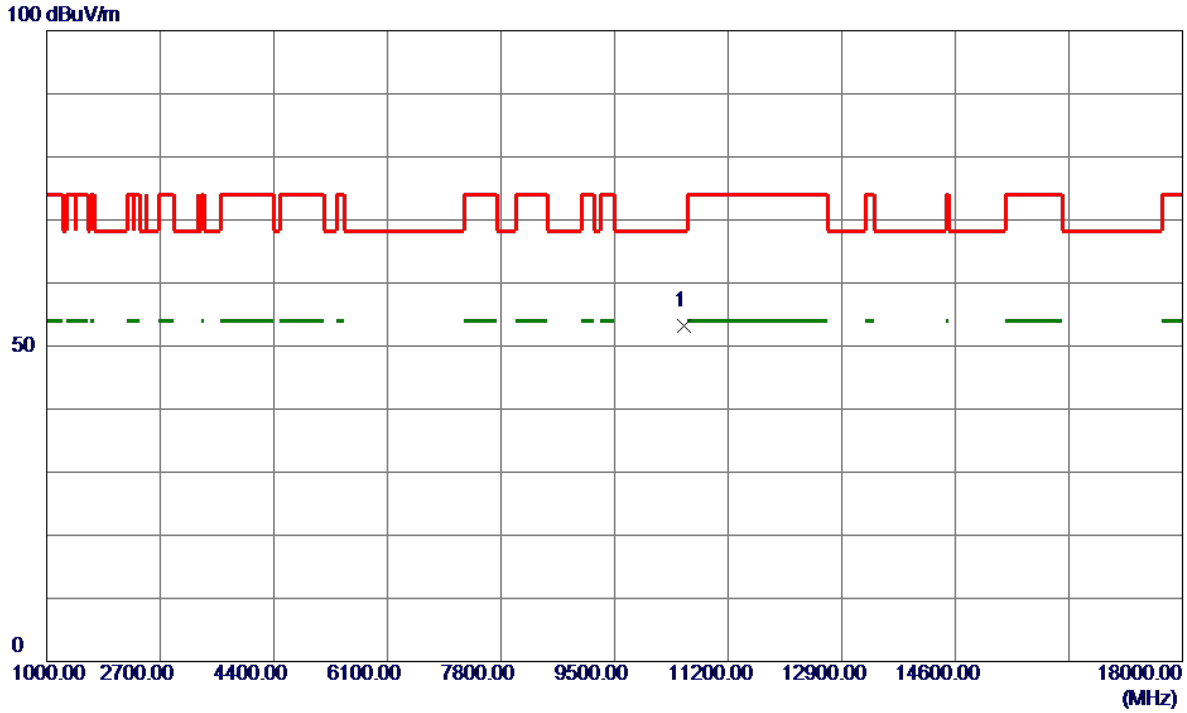
Test Mode	UNII-2A_TX AC(VHT40) Mode 5270 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5267.6000	87.45	14.33	101.78	999.00	-897.22	AVG	No Limit
2 *	5268.4000	96.38	14.33	110.71	68.20	42.51	Peak	No Limit
3	5350.0000	39.94	14.33	54.27	74.00	-19.73	Peak	
4	5350.0000	30.50	14.33	44.83	54.00	-9.17	AVG	

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

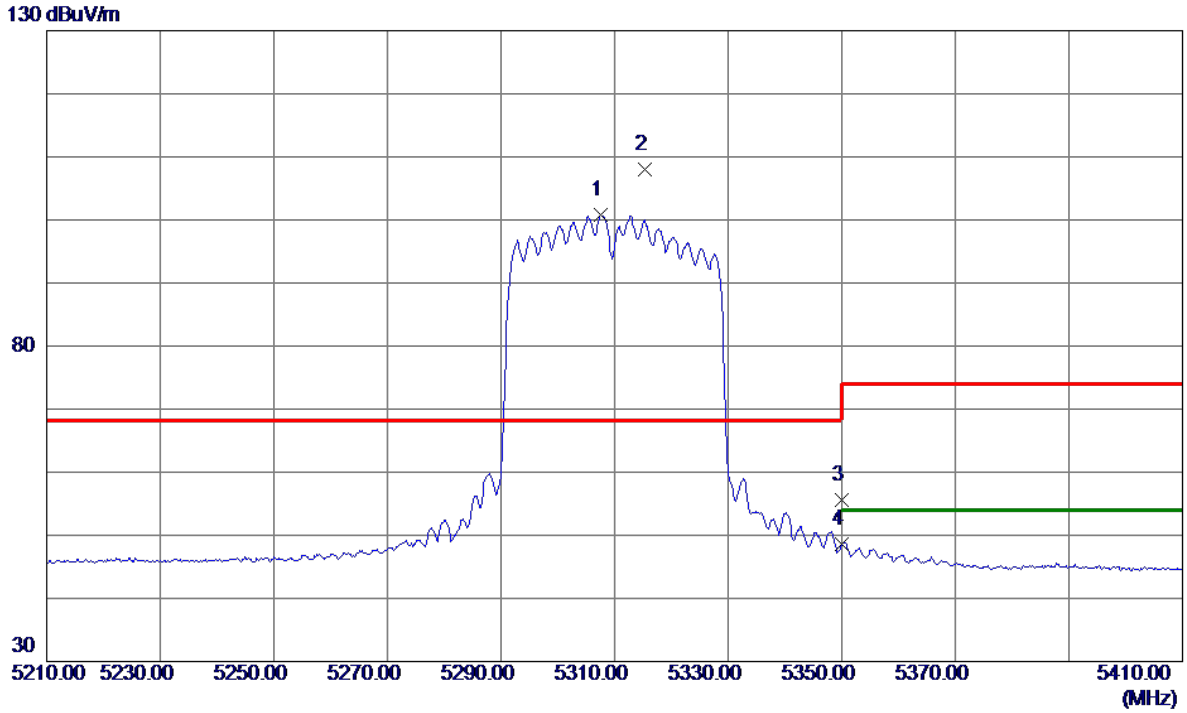
Test Mode	UNII-2A_TX AC(VHT40) Mode 5270 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10540.1000	42.36	10.83	53.19	68.20	-15.01	Peak	

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

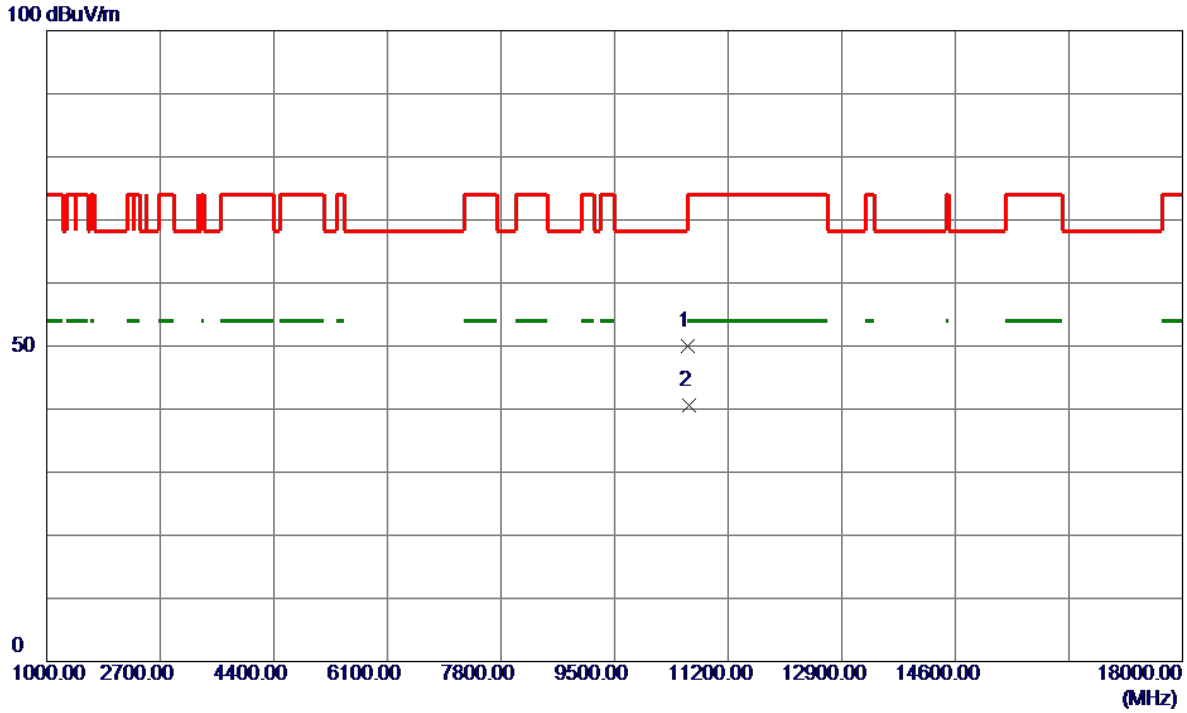
Test Mode	UNII-2A_TX AC(VHT40) Mode 5310 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5307.6000	86.43	14.33	100.76	999.00	-898.24	AVG	No Limit
2 *	5315.4000	93.58	14.33	107.91	68.20	39.71	Peak	No Limit
3	5350.0000	41.23	14.33	55.56	74.00	-18.44	Peak	
4	5350.0000	34.18	14.33	48.51	54.00	-5.49	AVG	

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

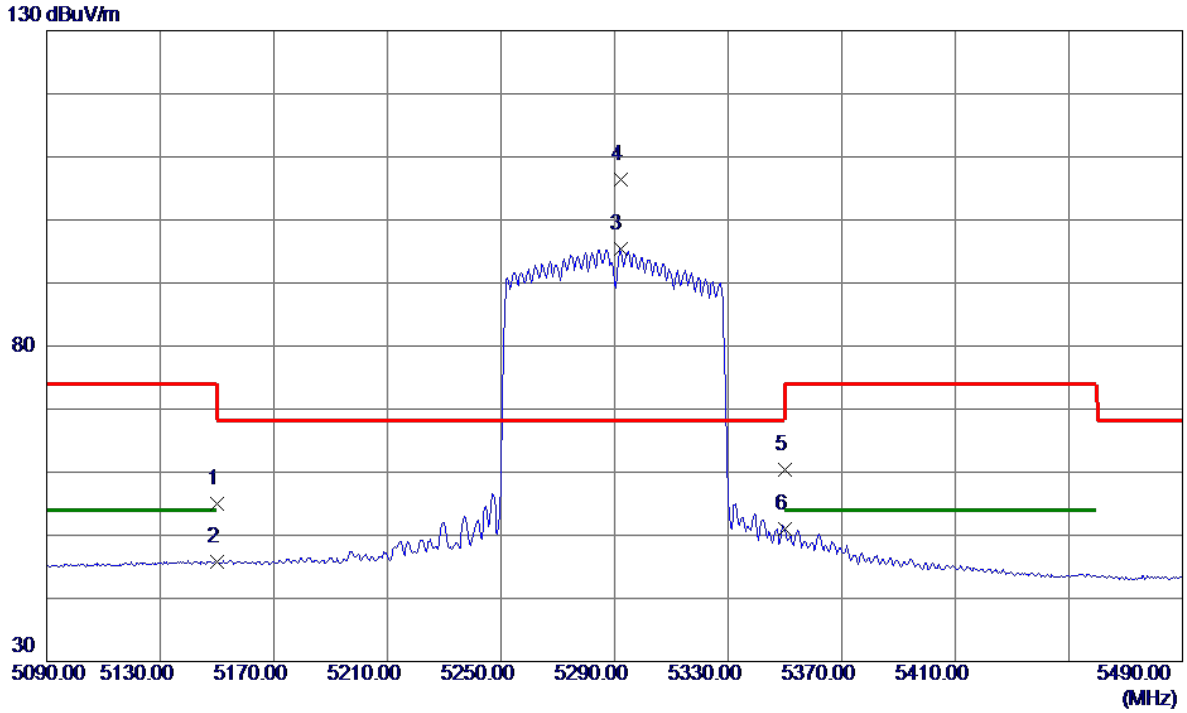
Test Mode	UNII-2A_TX AC(VHT40) Mode 5310 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10601.3000	39.11	10.86	49.97	74.00	-24.03	Peak	
2 *	10619.0000	29.71	10.86	40.57	54.00	-13.43	AVG	

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

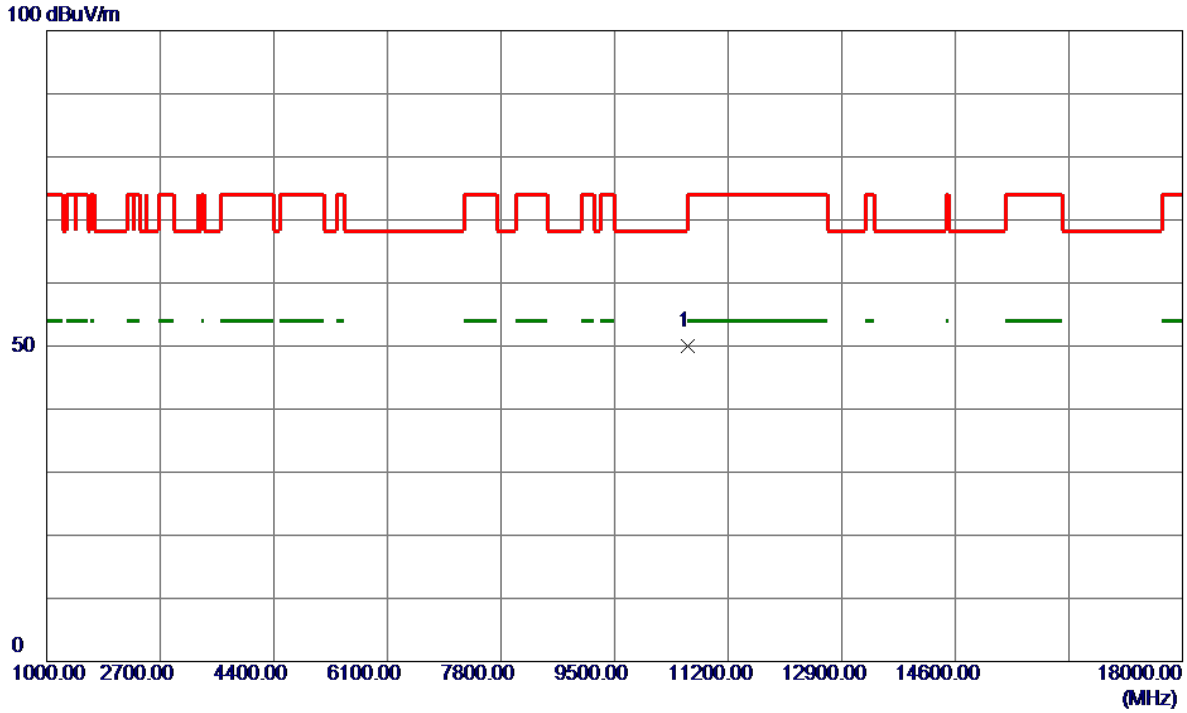
Test Mode	UNII-2A_TX AC(VHT80) Mode 5290 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	40.58	14.33	54.91	74.00	-19.09	Peak	
2	5150.0000	31.46	14.33	45.79	54.00	-8.21	AVG	
3	5292.0000	80.99	14.33	95.32	999.00	-903.68	AVG	No Limit
4 *	5292.4000	92.12	14.33	106.45	68.20	38.25	Peak	No Limit
5	5350.0000	46.03	14.33	60.36	74.00	-13.64	Peak	
6	5350.0000	36.72	14.33	51.05	54.00	-2.95	AVG	

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

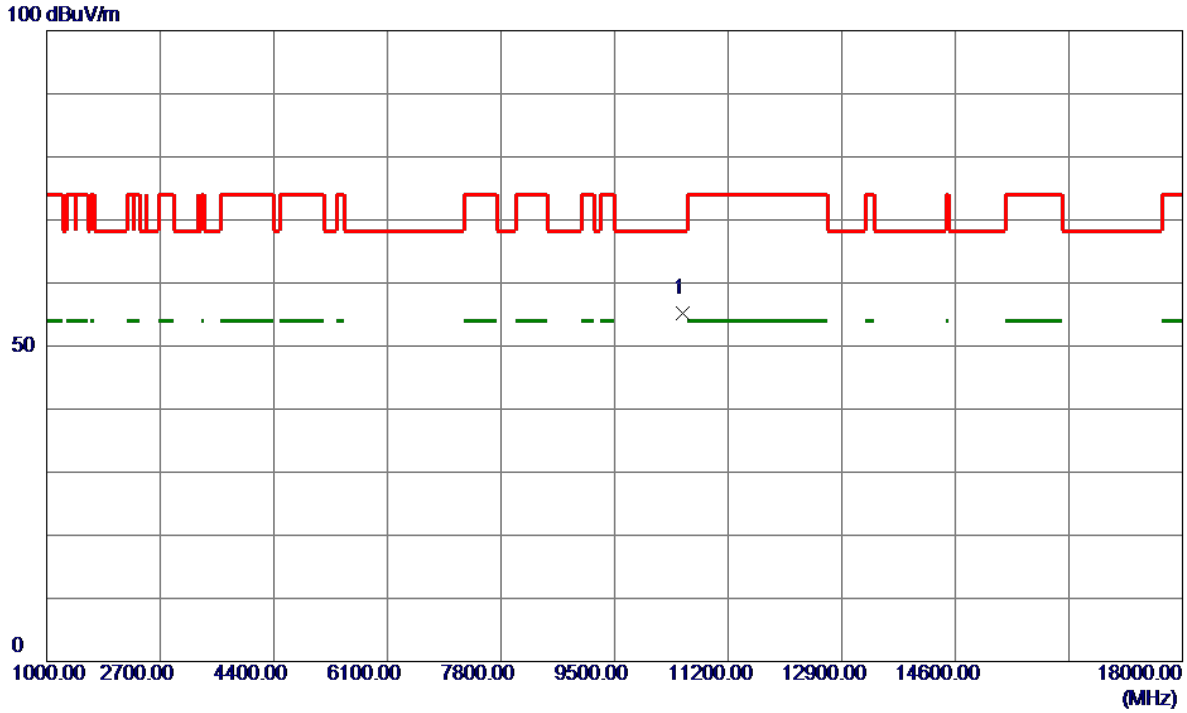
Test Mode	UNII-2A_TX AC(VHT80) Mode 5290 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10594.0000	39.17	10.85	50.02	68.20	-18.18	Peak	

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

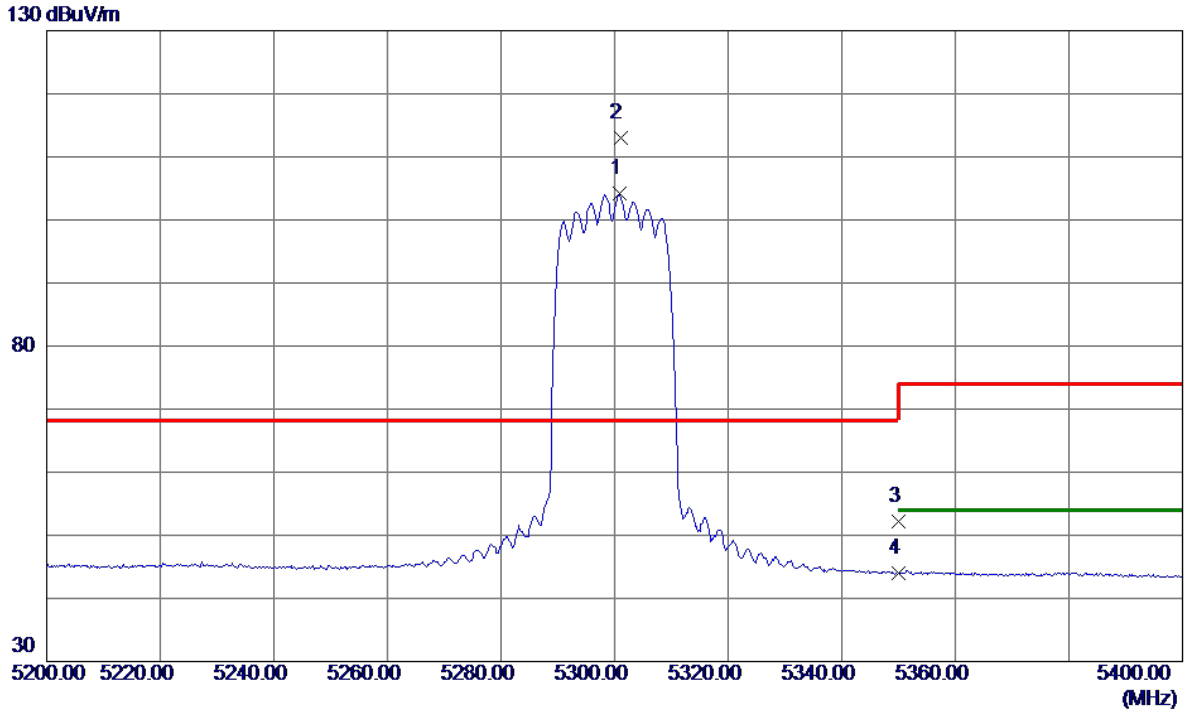
Test Mode	UNII-2A_TX AX(HE20) Mode 5260 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10517.9000	44.37	10.82	55.19	68.20	-13.01	Peak	

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

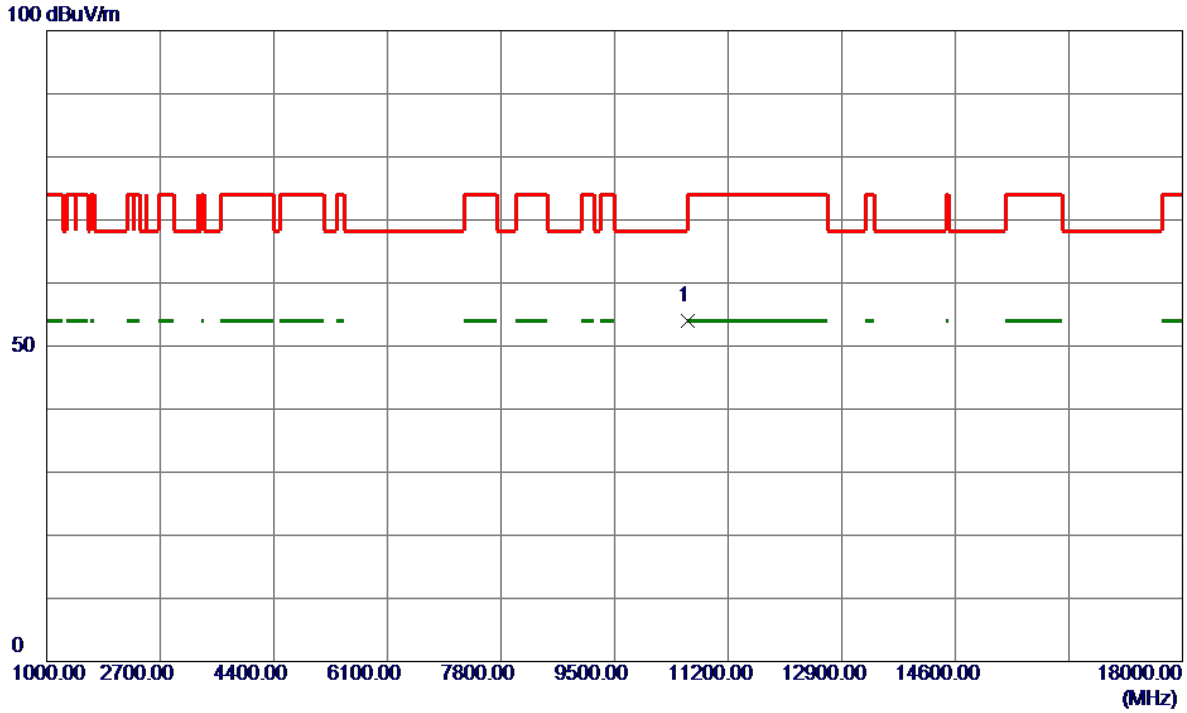
Test Mode	UNII-2A_TX AX(HE20) Mode 5300 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5300.8000	89.86	14.33	104.19	999.00	-894.81	AVG	No Limit
2 *	5301.0000	98.77	14.33	113.10	68.20	44.90	Peak	No Limit
3	5350.0000	37.91	14.33	52.24	74.00	-21.76	Peak	
4	5350.0000	29.68	14.33	44.01	54.00	-9.99	AVG	

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

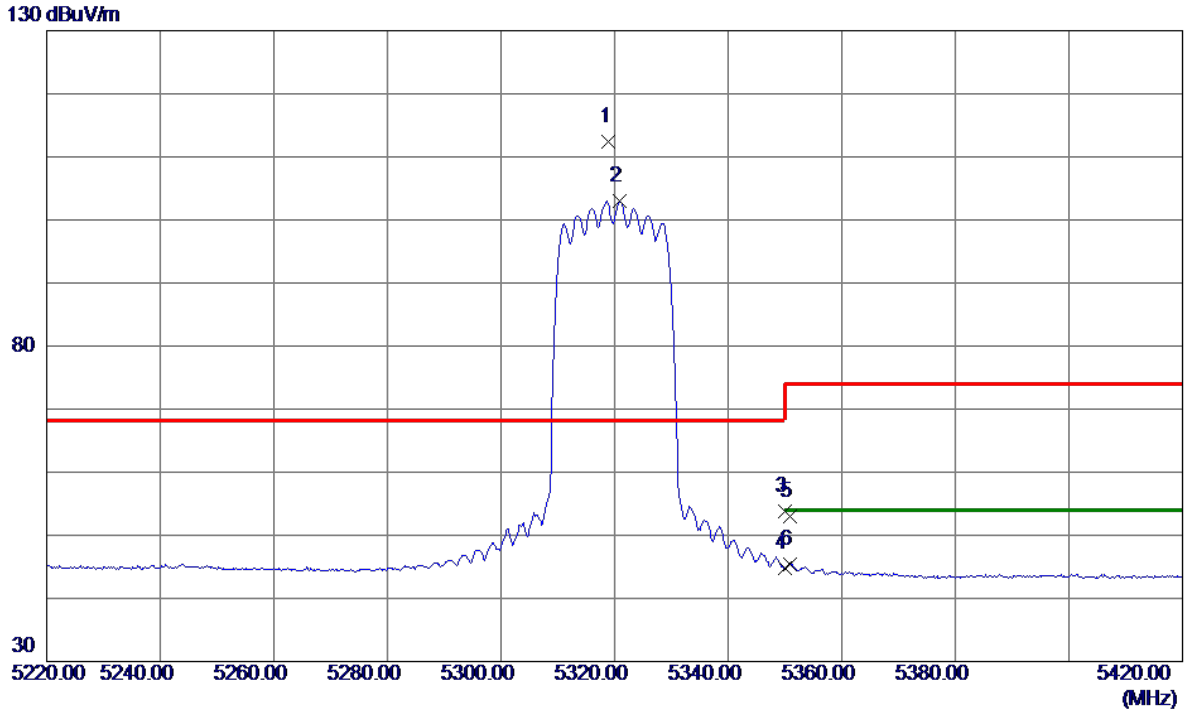
Test Mode	UNII-2A_TX AX(HE20) Mode 5300 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10591.9000	43.22	10.85	54.07	68.20	-14.13	Peak	

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

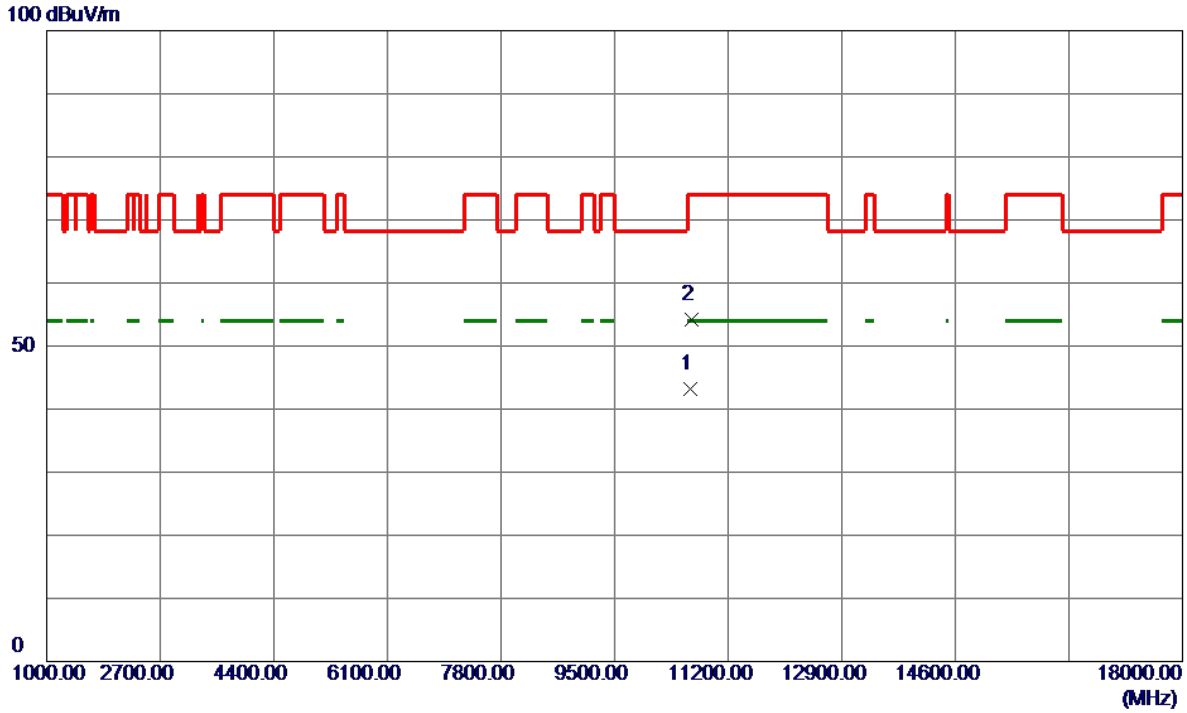
Test Mode	UNII-2A_TX AX(HE20) Mode 5320 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5319.0000	98.14	14.33	112.47	68.20	44.27	Peak	No Limit
2	5320.8000	88.69	14.33	103.02	999.00	-895.98	AVG	No Limit
3	5350.0000	39.49	14.33	53.82	74.00	-20.18	Peak	
4	5350.0000	30.38	14.33	44.71	54.00	-9.29	AVG	
5	5350.8000	38.59	14.33	52.92	74.00	-21.08	Peak	
6	5350.8000	31.15	14.33	45.48	54.00	-8.52	AVG	

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

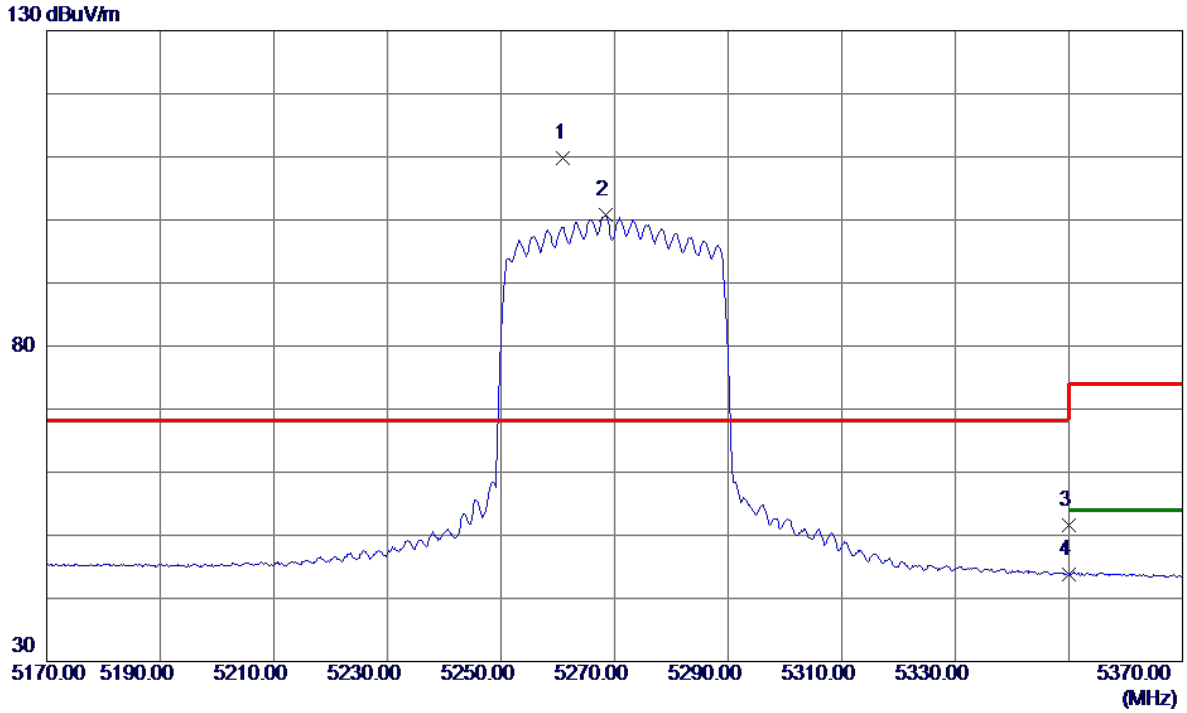
Test Mode	UNII-2A_TX AX(HE20) Mode 5320 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10639.0000	32.25	10.87	43.12	54.00	-10.88	AVG	
2	10644.2000	43.28	10.88	54.16	74.00	-19.84	Peak	

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

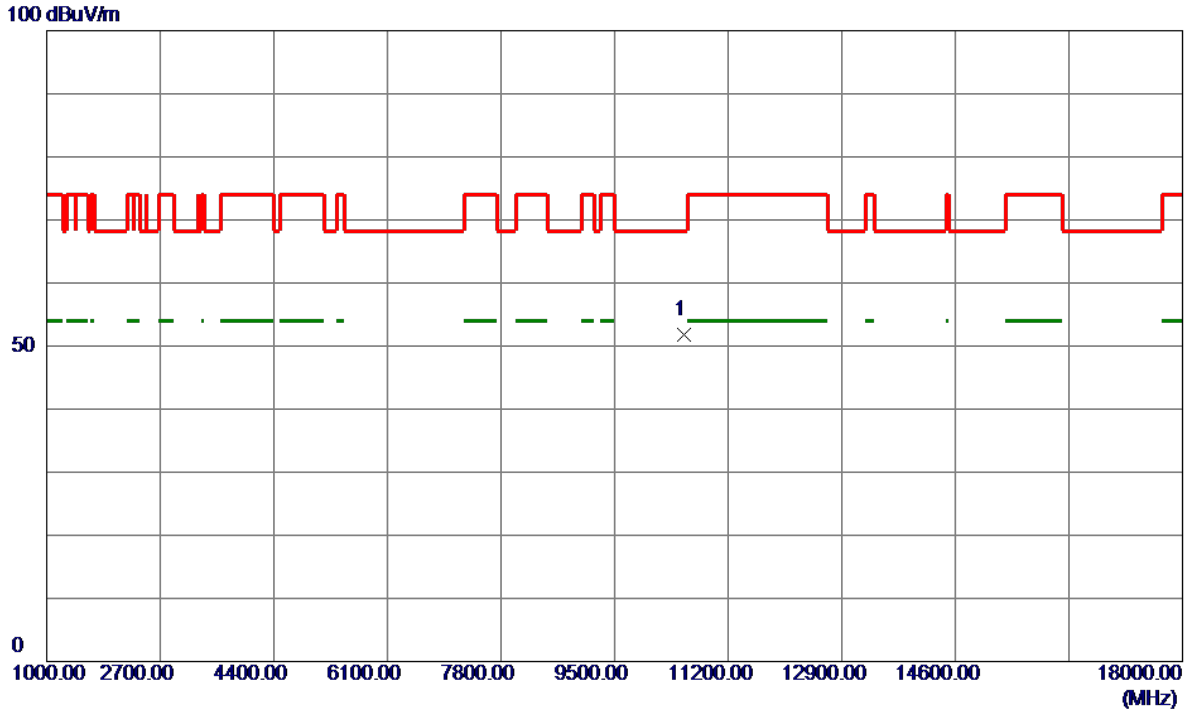
Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5261.0000	95.49	14.33	109.82	68.20	41.62	Peak	No Limit
2	5268.4000	86.50	14.33	100.83	999.00	-898.17	AVG	No Limit
3	5350.0000	37.28	14.33	51.61	74.00	-22.39	Peak	
4	5350.0000	29.42	14.33	43.75	54.00	-10.25	AVG	

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

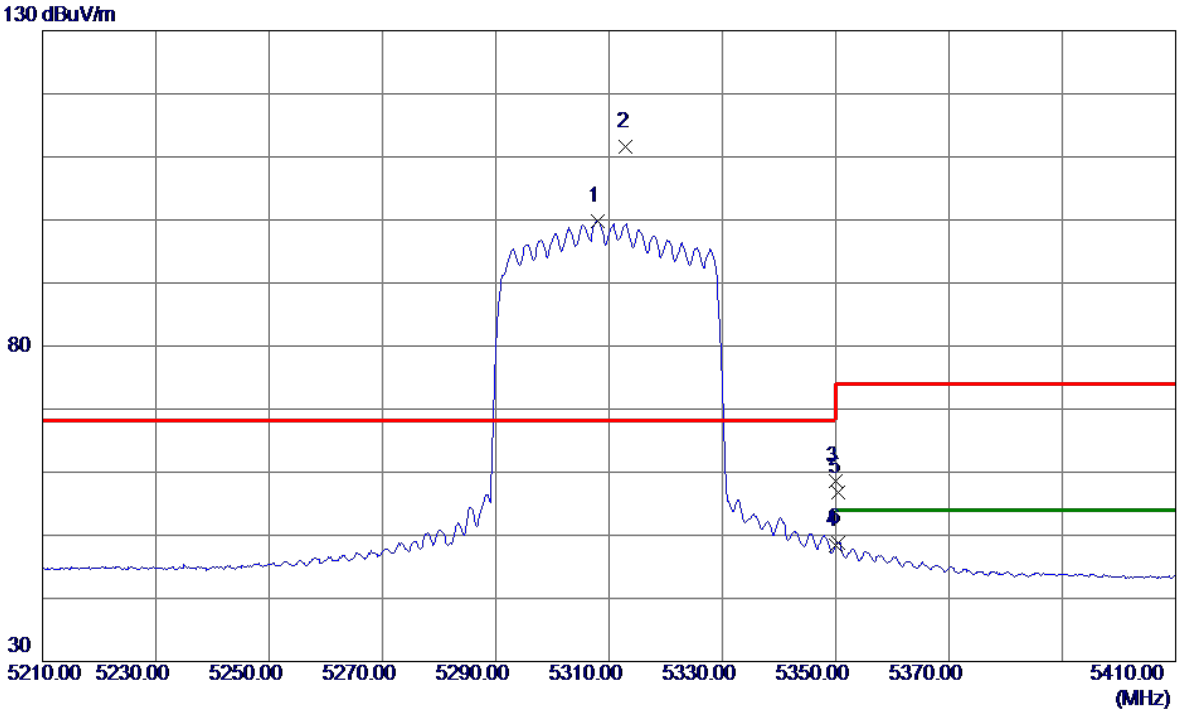
Test Mode	UNII-2A_TX AX(HE40) Mode 5270 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10542.2000	41.00	10.83	51.83	68.20	-16.37	Peak	

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

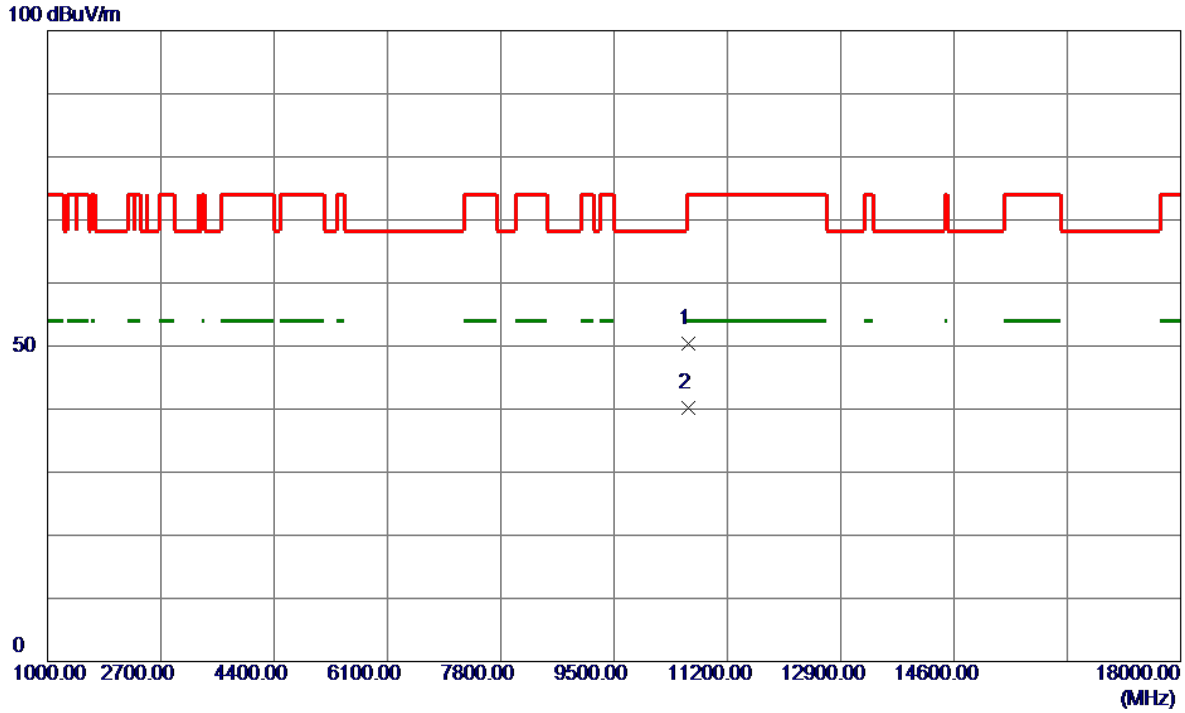
Test Mode	UNII-2A_TX AX(HE40) Mode 5310 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5308.0000	85.55	14.33	99.88	999.00	-899.12	AVG	No Limit
2 *	5313.0000	97.33	14.33	111.66	68.20	43.46	Peak	No Limit
3	5350.0000	44.36	14.33	58.69	74.00	-15.31	Peak	
4	5350.0000	34.12	14.33	48.45	54.00	-5.55	AVG	
5	5350.4000	42.41	14.33	56.74	74.00	-17.26	Peak	
6	5350.4000	34.52	14.33	48.85	54.00	-5.15	AVG	

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

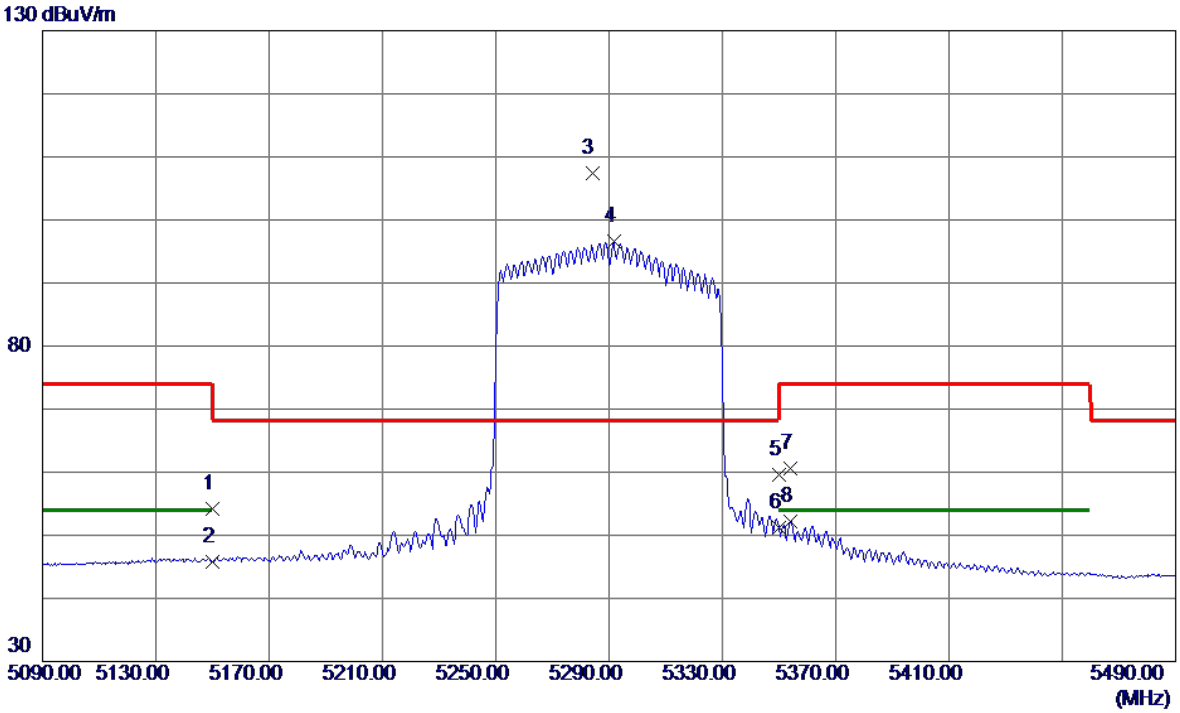
Test Mode	UNII-2A_TX AX(HE40) Mode 5310 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10606.9000	39.57	10.86	50.43	74.00	-23.57	Peak	
2 *	10614.8000	29.41	10.86	40.27	54.00	-13.73	AVG	

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

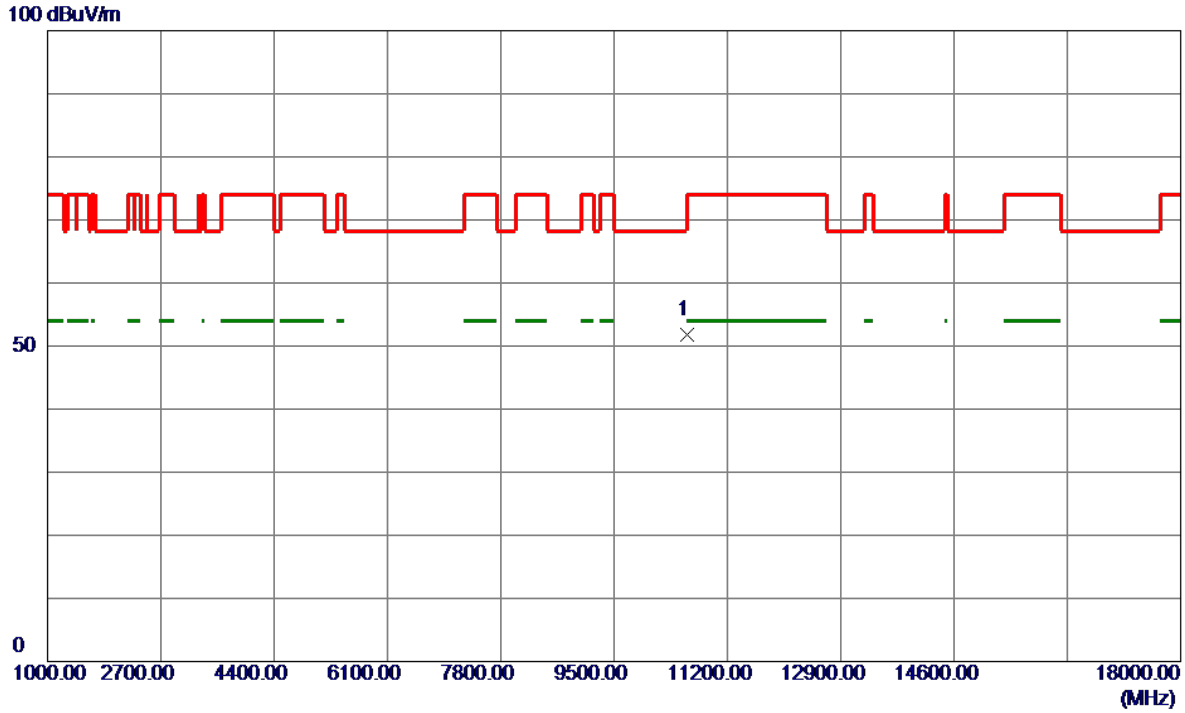
Test Mode	UNII-2A_TX AX(HE80) Mode 5290 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	39.90	14.33	54.23	74.00	-19.77	Peak	
2	5150.0000	31.54	14.33	45.87	54.00	-8.13	AVG	
3 *	5284.0000	93.10	14.33	107.43	68.20	39.23	Peak	No Limit
4	5291.6000	82.19	14.33	96.52	999.00	-902.48	AVG	No Limit
5	5350.0000	45.24	14.33	59.57	74.00	-14.43	Peak	
6	5350.0000	36.84	14.33	51.17	54.00	-2.83	AVG	
7	5354.0000	46.18	14.33	60.51	74.00	-13.49	Peak	
8	5354.0000	37.90	14.33	52.23	54.00	-1.77	AVG	

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

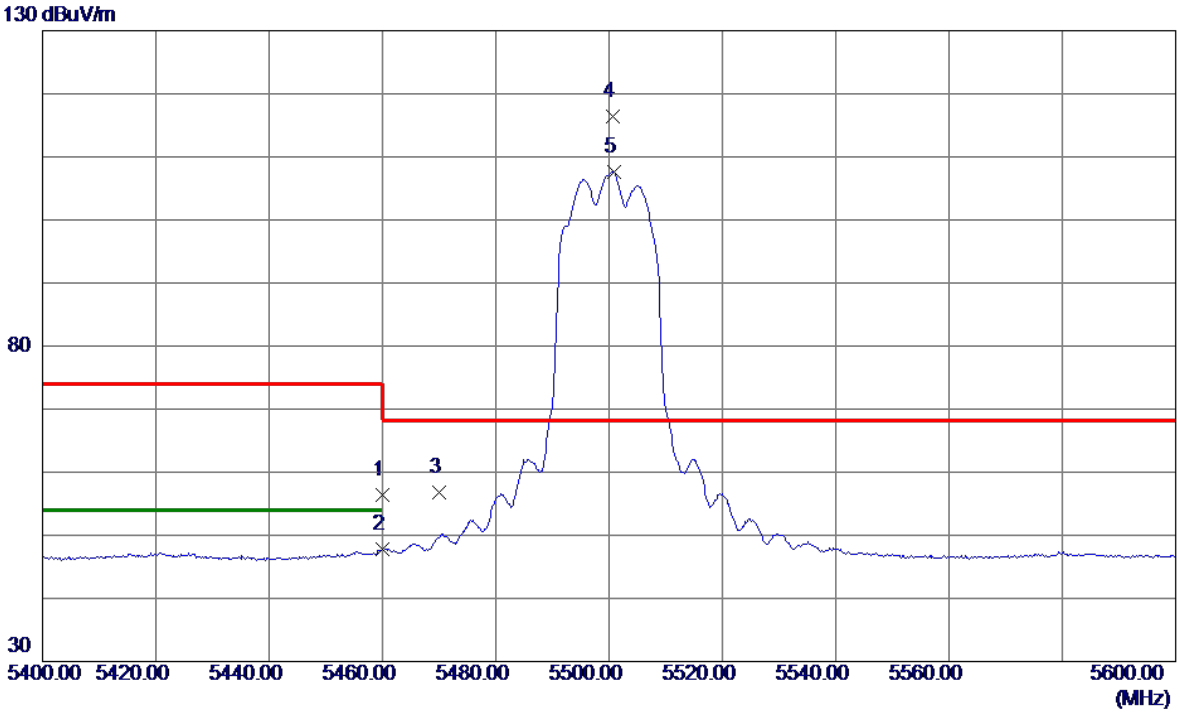
Test Mode	UNII-2A_TX AX(HE80) Mode 5290 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10596.6000	40.88	10.85	51.73	68.20	-16.47	Peak	

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

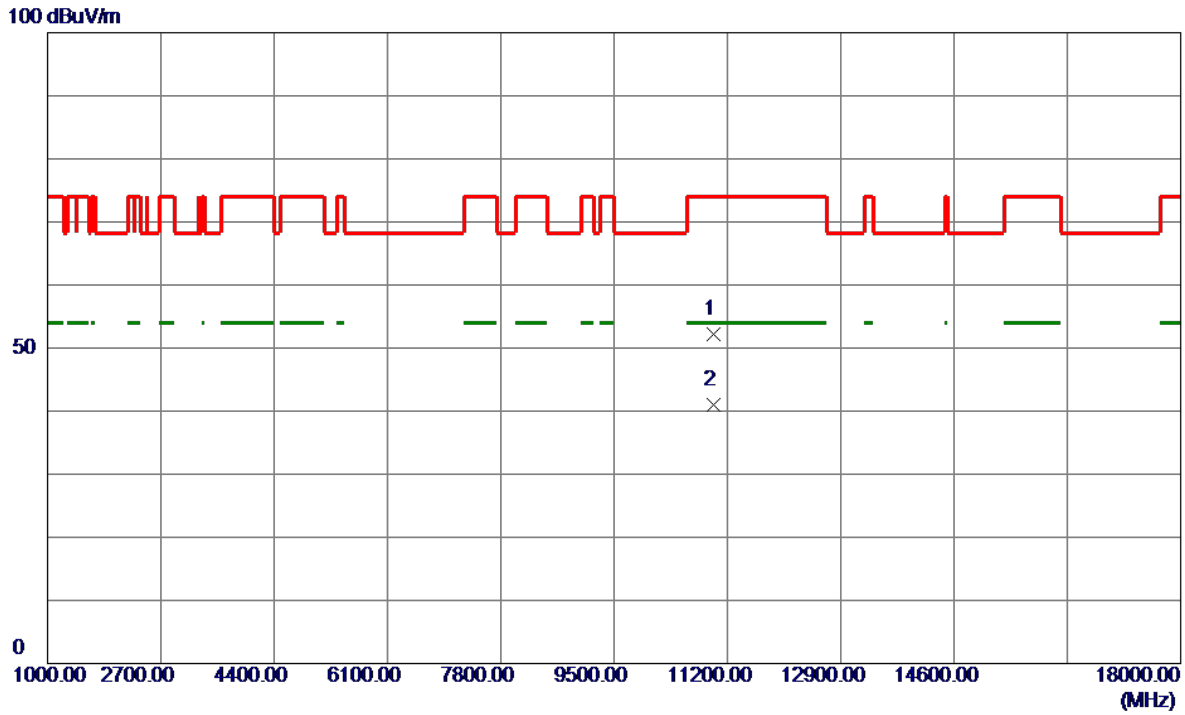
Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5460.0000	42.14	14.34	56.48	74.00	-17.52	Peak	
2	5460.0000	33.39	14.34	47.73	54.00	-6.27	AVG	
3	5470.0000	42.54	14.34	56.88	68.20	-11.32	Peak	
4 *	5500.6000	102.03	14.34	116.37	68.20	48.17	Peak	No Limit
5	5500.8000	93.35	14.34	107.69	999.00	-891.31	AVG	No Limit

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

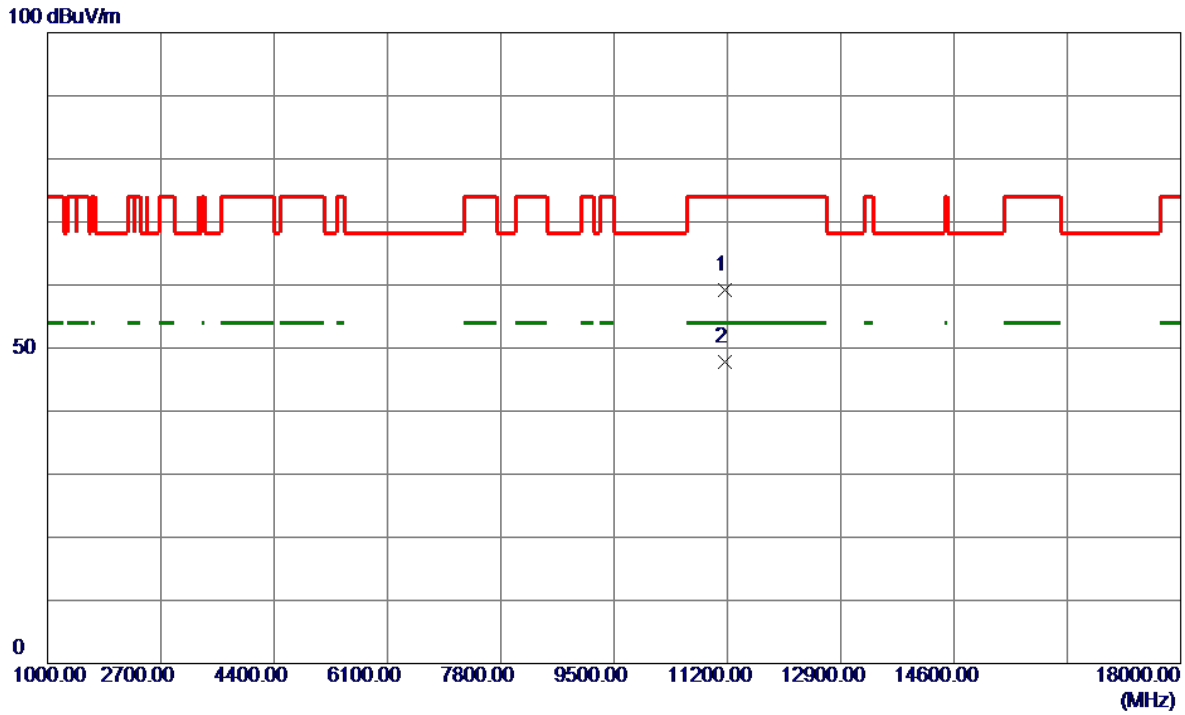
Test Mode	UNII-2C_TX A Mode 5500 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10995.0000	41.12	11.04	52.16	74.00	-21.84	Peak	
2 *	11000.3000	30.00	11.04	41.04	54.00	-12.96	AVG	

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

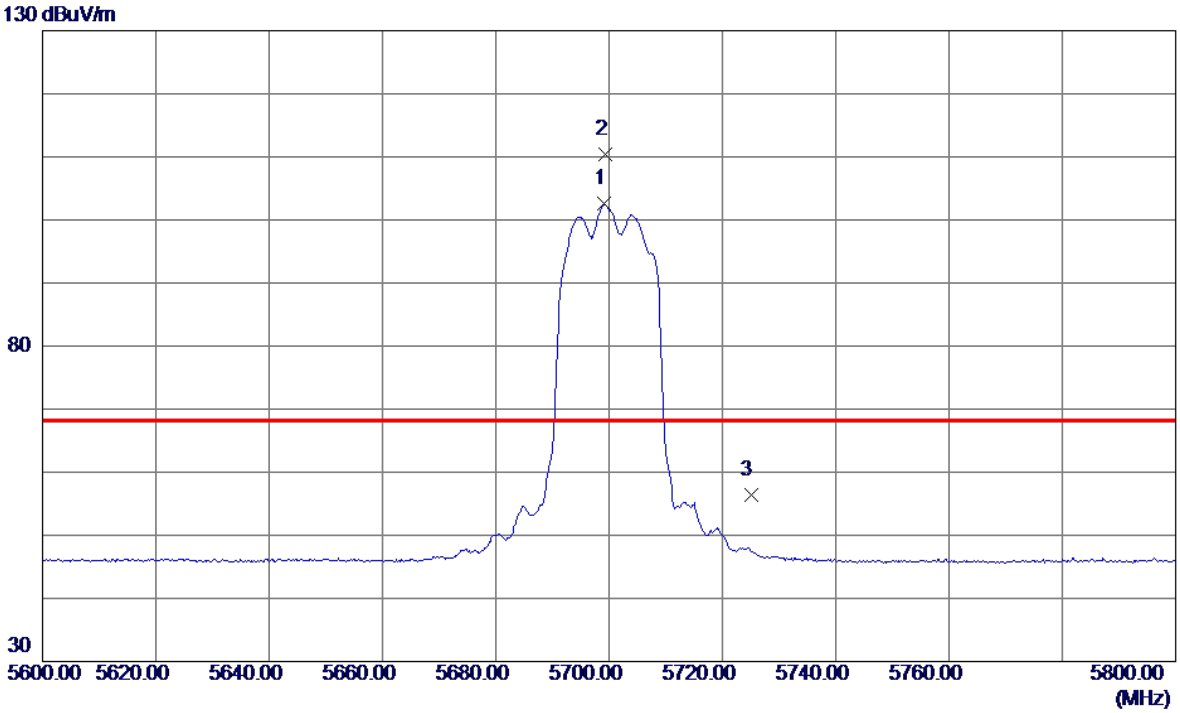
Test Mode	UNII-2C_TX A Mode 5580 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11156.7000	48.16	11.09	59.25	74.00	-14.75	Peak	
2 *	11161.7000	36.69	11.09	47.78	54.00	-6.22	AVG	

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

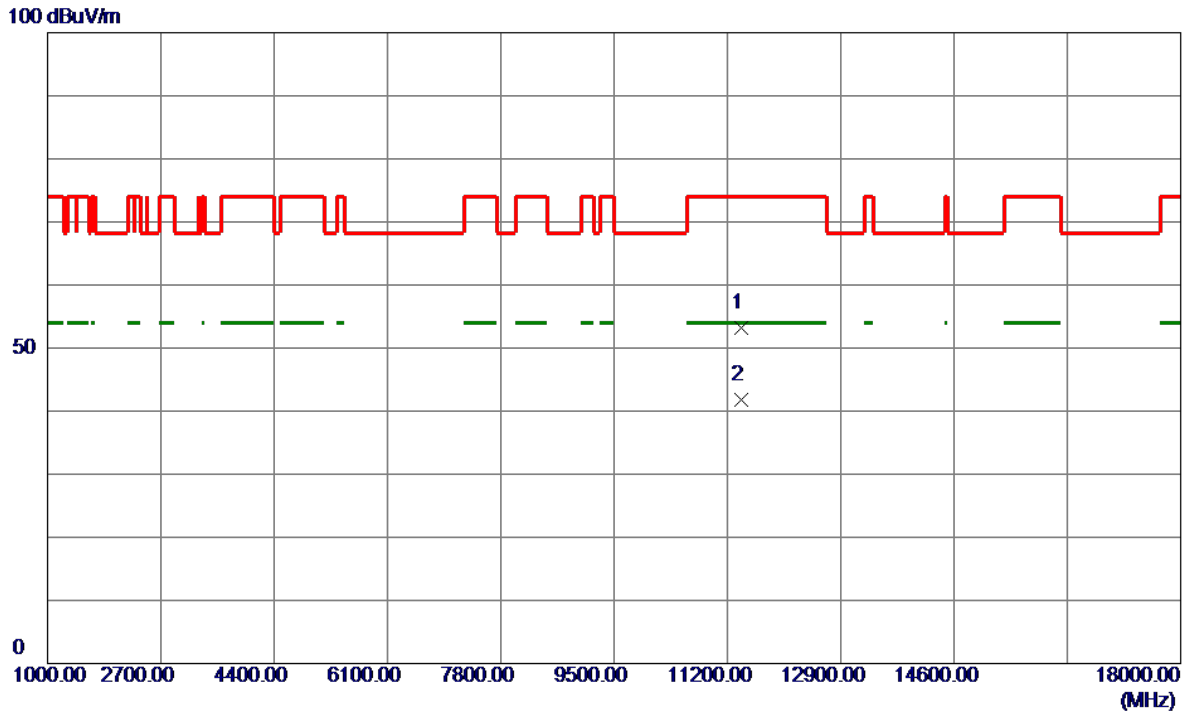
Test Mode	UNII-2C_TX A Mode 5700 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5699.2000	87.76	14.80	102.56	999.00	-896.44	AVG	No Limit
2 *	5699.4000	95.57	14.80	110.37	68.20	42.17	Peak	No Limit
3	5725.0000	41.52	14.86	56.38	68.20	-11.82	Peak	

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

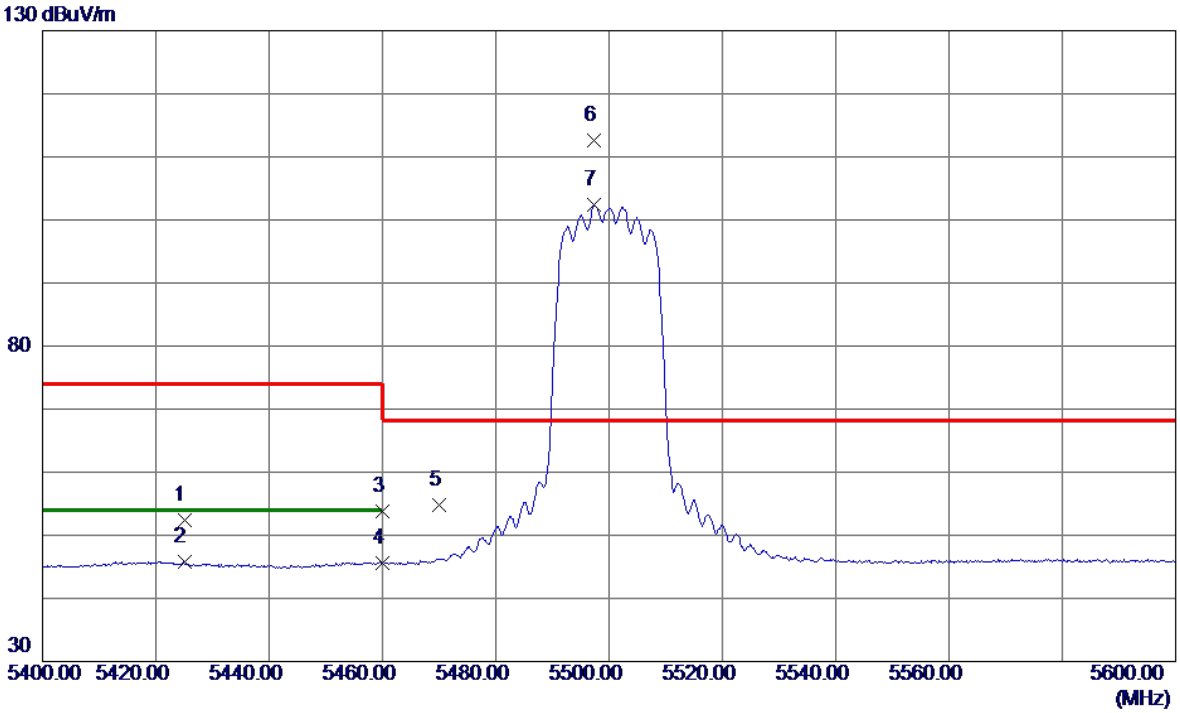
Test Mode	UNII-2C_TX A Mode 5700 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11398.9000	42.12	11.16	53.28	74.00	-20.72	Peak	
2 *	11399.7000	30.62	11.16	41.78	54.00	-12.22	AVG	

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

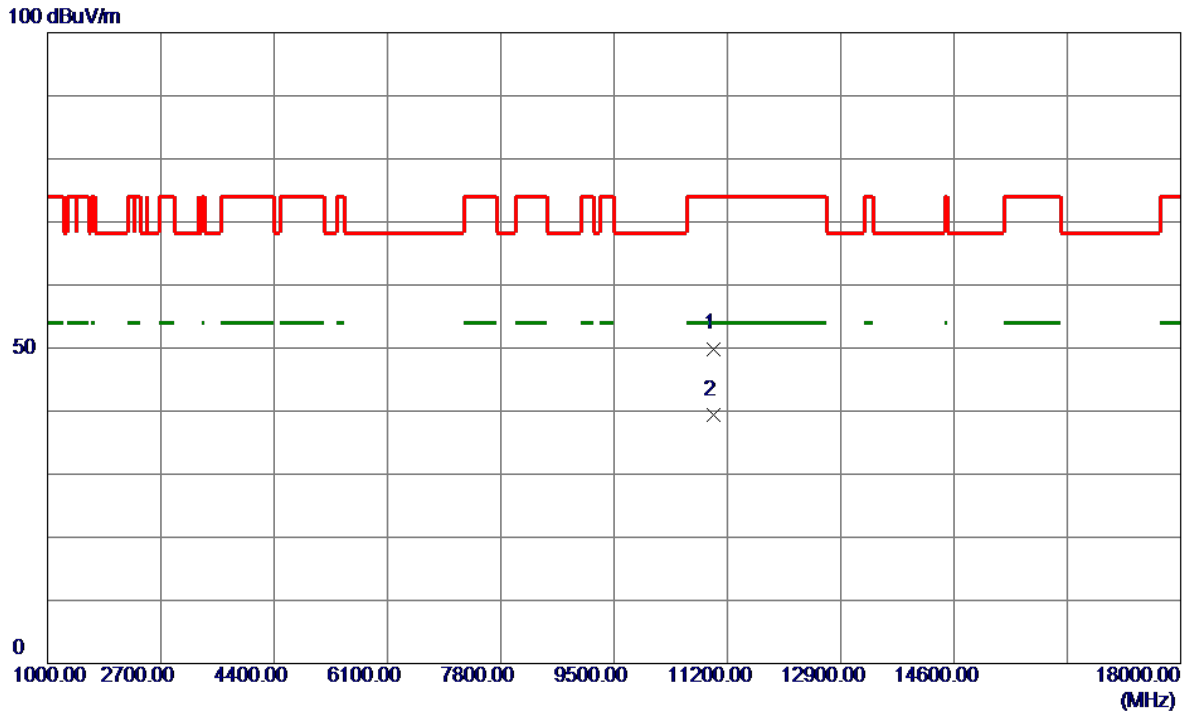
Test Mode	UNII-2C_TX AC(VHT20) Mode 5500 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5425.0000	38.11	14.34	52.45	74.00	-21.55	Peak	
2	5425.0000	31.46	14.34	45.80	54.00	-8.20	AVG	
3	5460.0000	39.46	14.34	53.80	74.00	-20.20	Peak	
4	5460.0000	31.25	14.34	45.59	54.00	-8.41	AVG	
5	5470.0000	40.41	14.34	54.75	68.20	-13.45	Peak	
6 *	5497.4000	98.32	14.34	112.66	68.20	44.46	Peak	No Limit
7	5497.4000	87.99	14.34	102.33	999.00	-896.67	AVG	No Limit

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

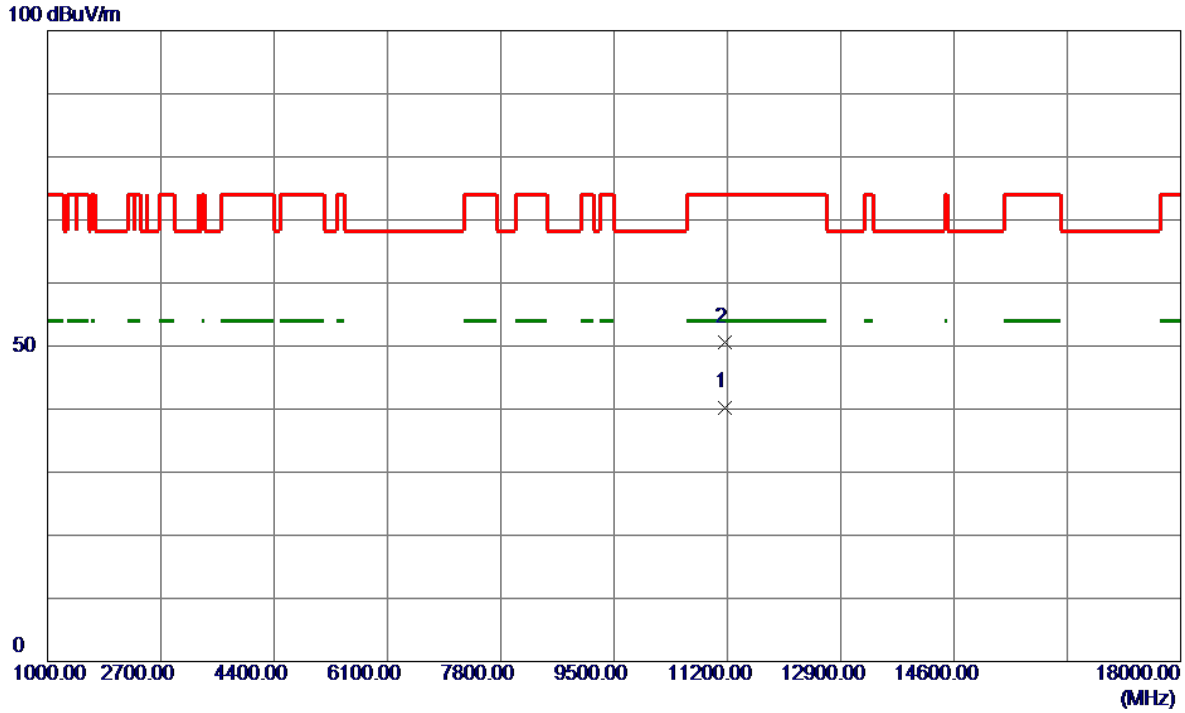
Test Mode	UNII-2C_TX AC(VHT20) Mode 5500 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10993.3000	38.86	11.04	49.90	74.00	-24.10	Peak	
2 *	10998.7000	28.29	11.04	39.33	54.00	-14.67	AVG	

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

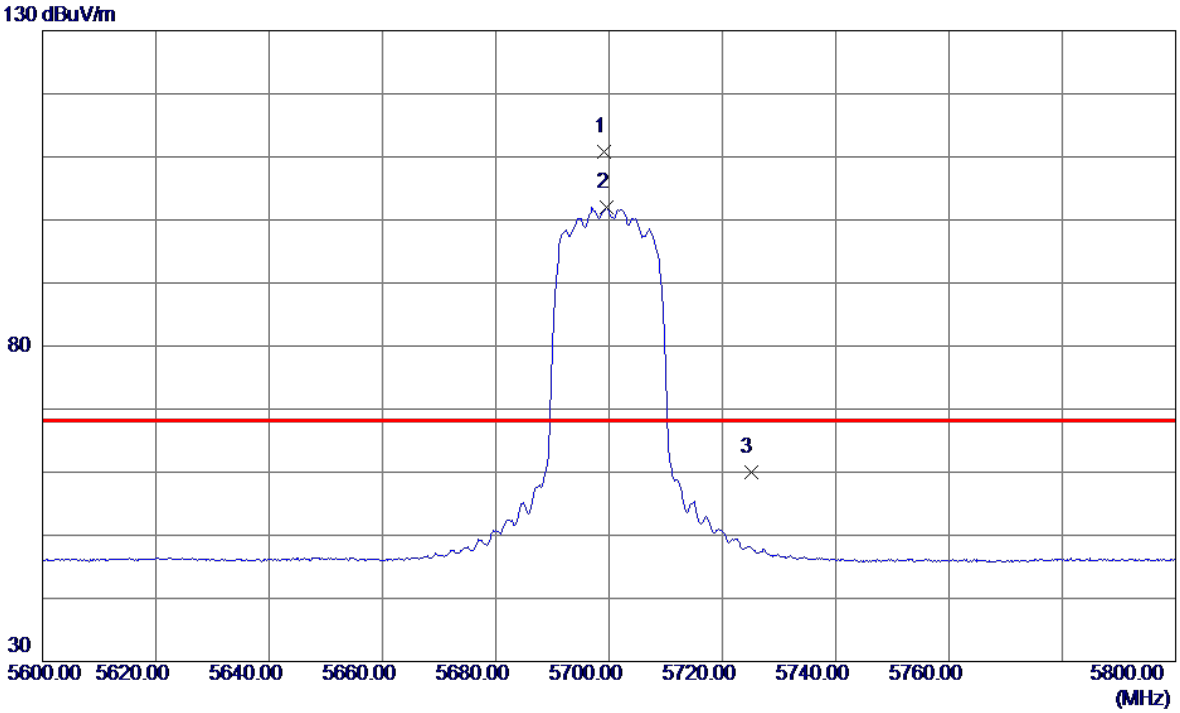
Test Mode	UNII-2C_TX AC(VHT20) Mode 5580 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11160.8000	29.21	11.09	40.30	54.00	-13.70	AVG	
2	11165.6000	39.51	11.09	50.60	74.00	-23.40	Peak	

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

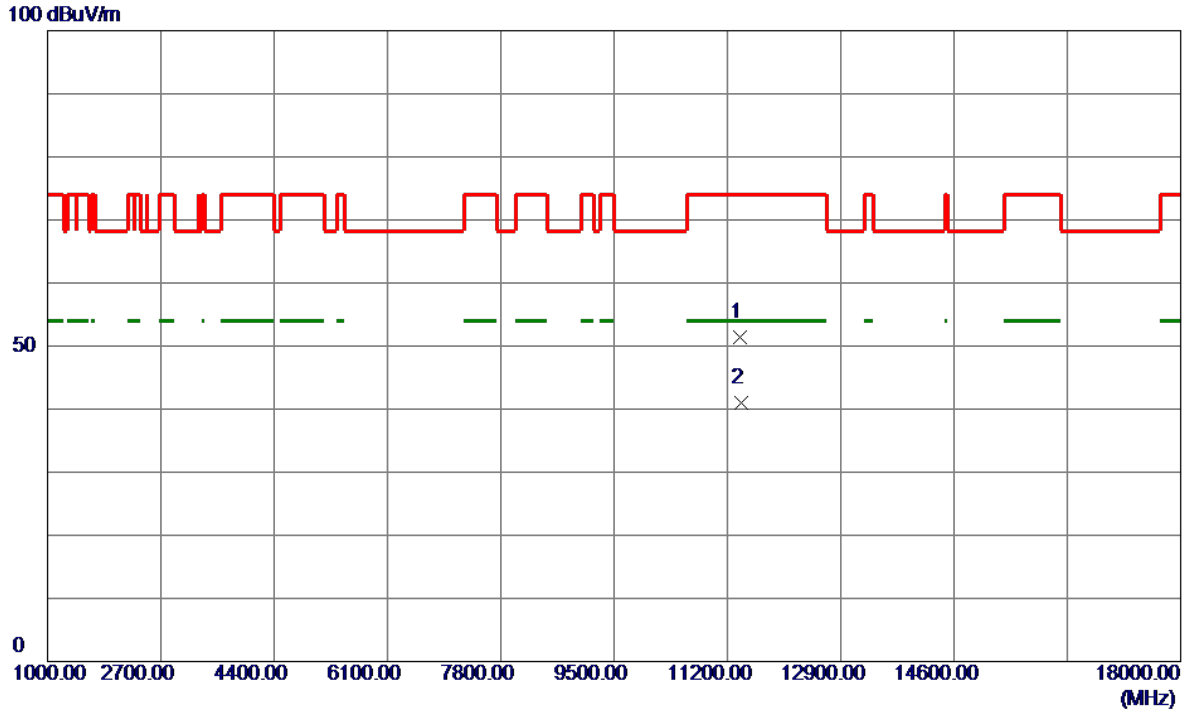
Test Mode	UNII-2C_TX AC(VHT20) Mode 5700 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5699.2000	95.97	14.80	110.77	68.20	42.57	Peak	No Limit
2	5699.6000	87.12	14.80	101.92	999.00	-897.08	AVG	No Limit
3	5725.0000	45.23	14.86	60.09	68.20	-8.11	Peak	

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

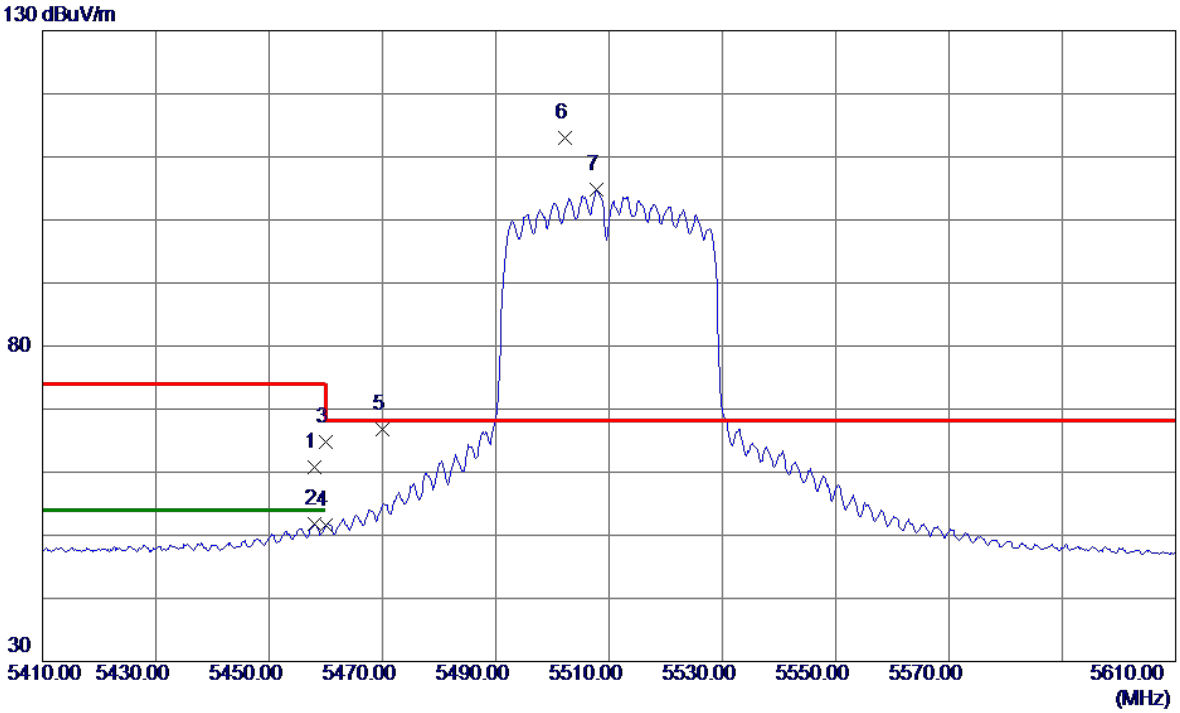
Test Mode	UNII-2C_TX AC(VHT20) Mode 5700 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11397.8000	40.30	11.16	51.46	74.00	-22.54	Peak	
2 *	11400.4000	29.90	11.16	41.06	54.00	-12.94	AVG	

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

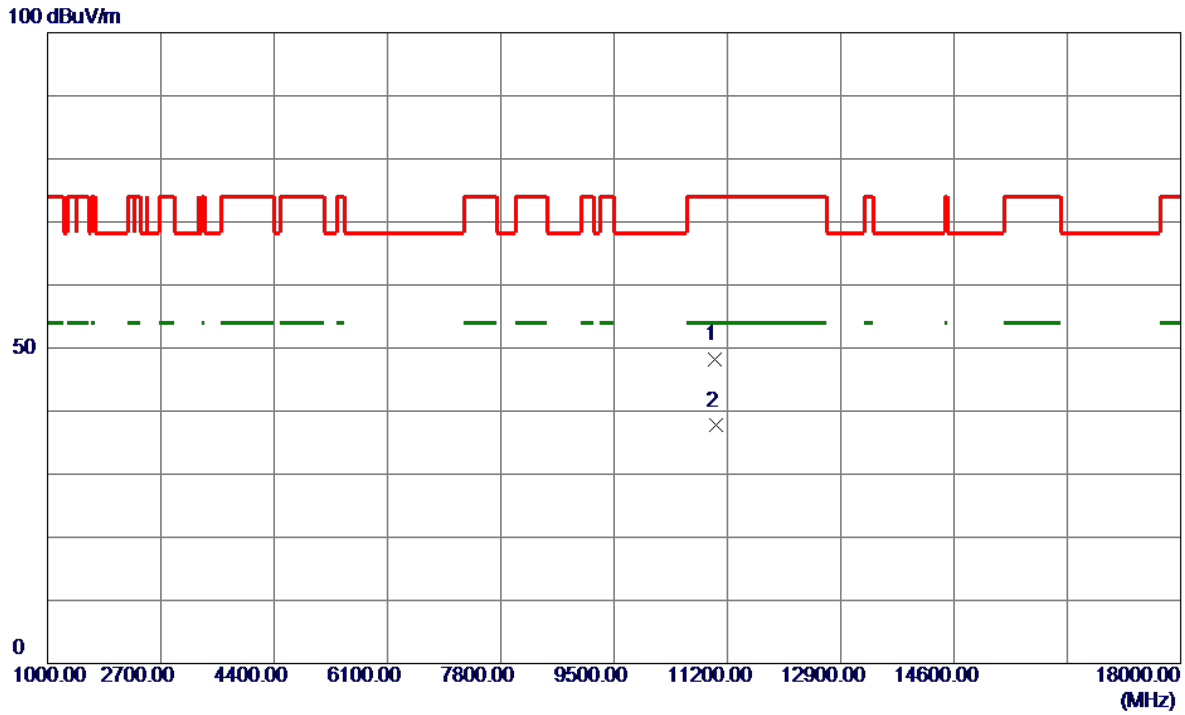
Test Mode	UNII-2C_TX AC(VHT40) Mode 5510 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5458.0000	46.51	14.34	60.85	74.00	-13.15	Peak	
2	5458.0000	37.44	14.34	51.78	54.00	-2.22	AVG	
3	5460.0000	50.55	14.34	64.89	74.00	-9.11	Peak	
4	5460.0000	37.31	14.34	51.65	54.00	-2.35	AVG	
5	5470.0000	52.46	14.34	66.80	68.20	-1.40	Peak	
6 *	5502.2000	98.68	14.35	113.03	68.20	44.83	Peak	No Limit
7	5507.8000	90.40	14.36	104.76	999.00	-894.24	AVG	No Limit

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

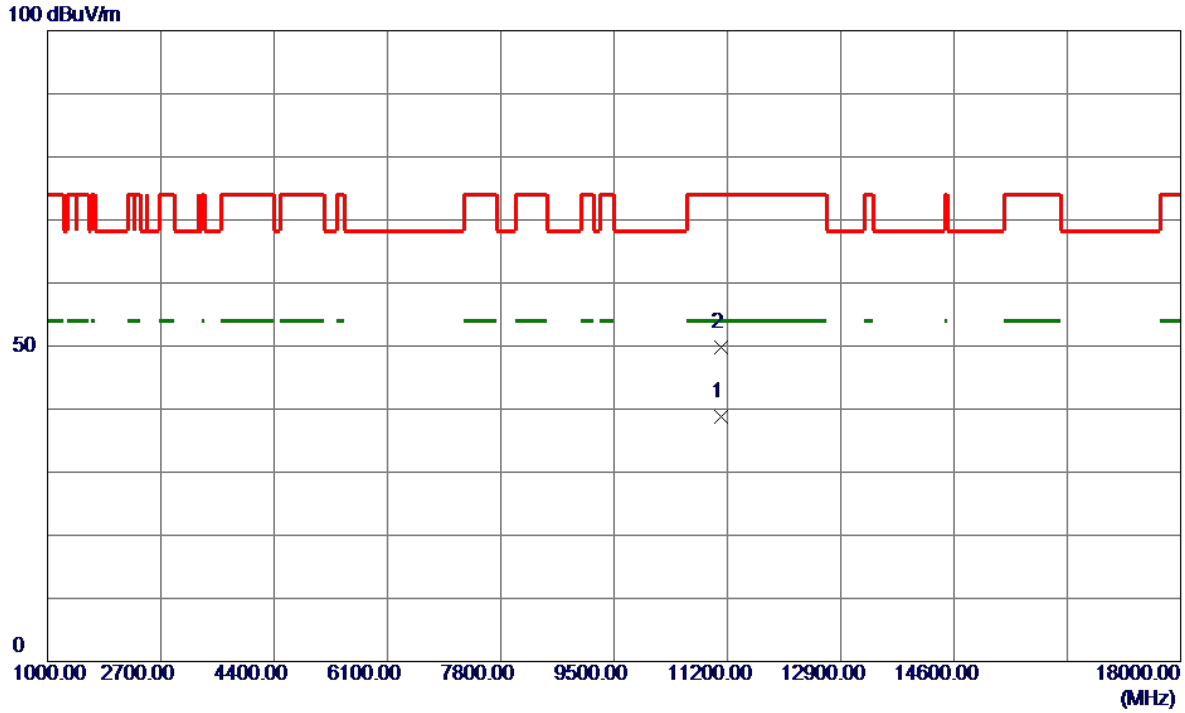
Test Mode	UNII-2C_TX AC(VHT40) Mode 5510 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11017.6000	37.19	11.05	48.24	74.00	-25.76	Peak	
2 *	11020.7000	26.65	11.05	37.70	54.00	-16.30	AVG	

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

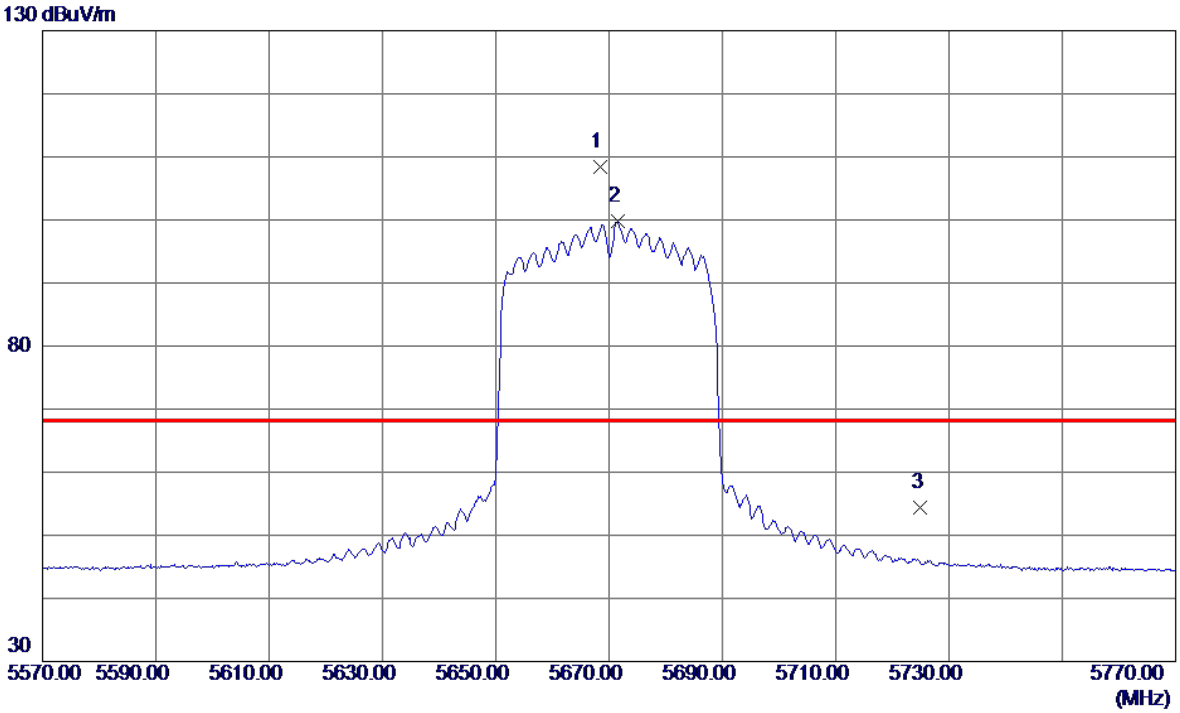
Test Mode	UNII-2C_TX AC(VHT40) Mode 5550 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11099.2000	27.69	11.07	38.76	54.00	-15.24	AVG	
2	11111.6000	38.82	11.07	49.89	74.00	-24.11	Peak	

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

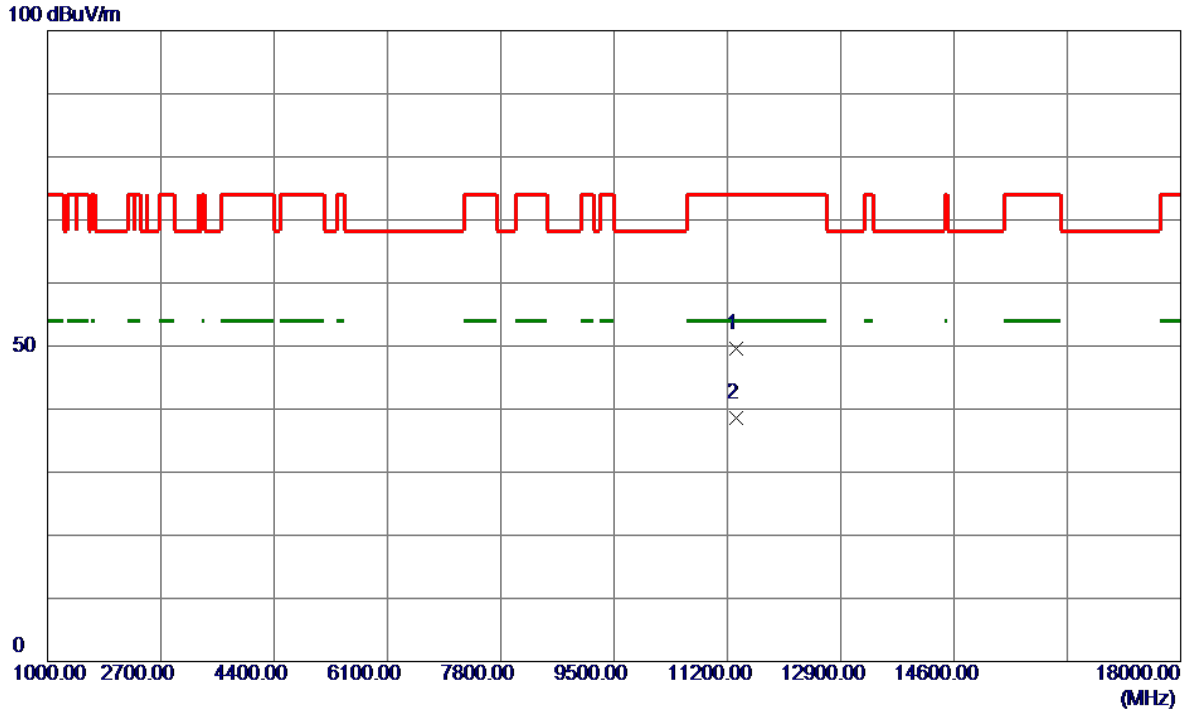
Test Mode	UNII-2C_TX AC(VHT40) Mode 5670 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5668.4000	93.67	14.73	108.40	68.20	40.20	Peak	No Limit
2	5671.6000	85.07	14.74	99.81	999.00	-899.19	AVG	No Limit
3	5725.0000	39.47	14.86	54.33	68.20	-13.87	Peak	

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

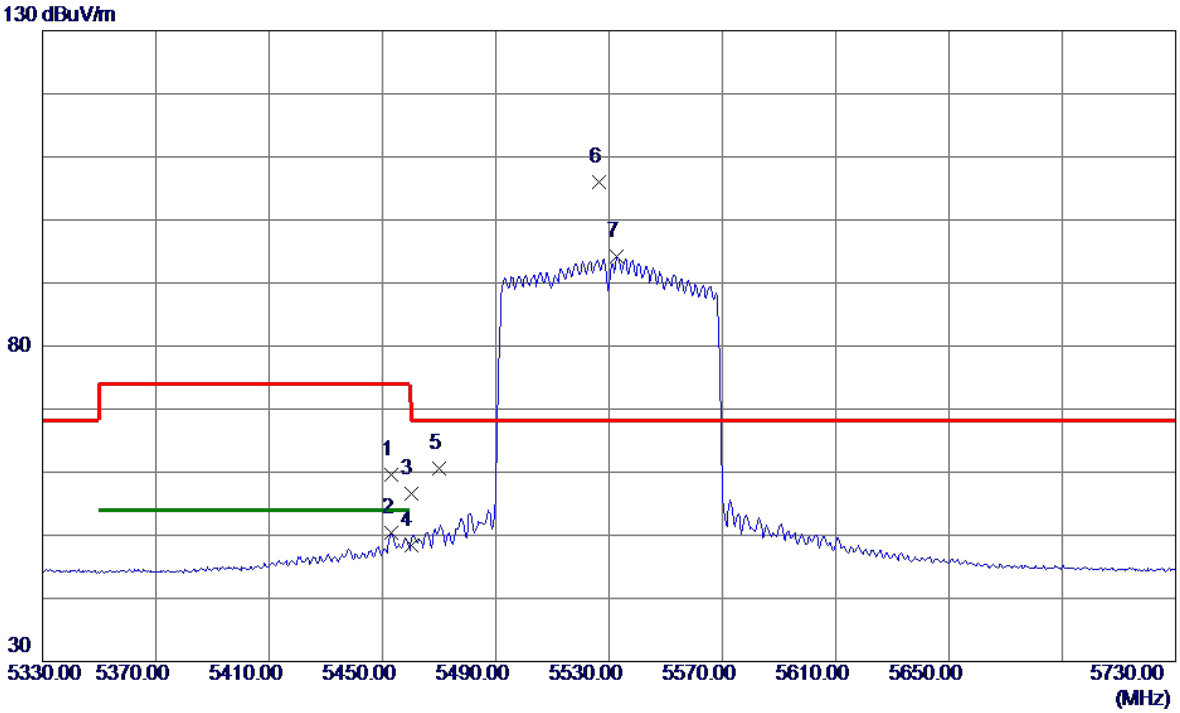
Test Mode	UNII-2C_TX AC(VHT40) Mode 5670 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11331.5000	38.39	11.14	49.53	74.00	-24.47	Peak	
2 *	11336.5000	27.44	11.14	38.58	54.00	-15.42	AVG	

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

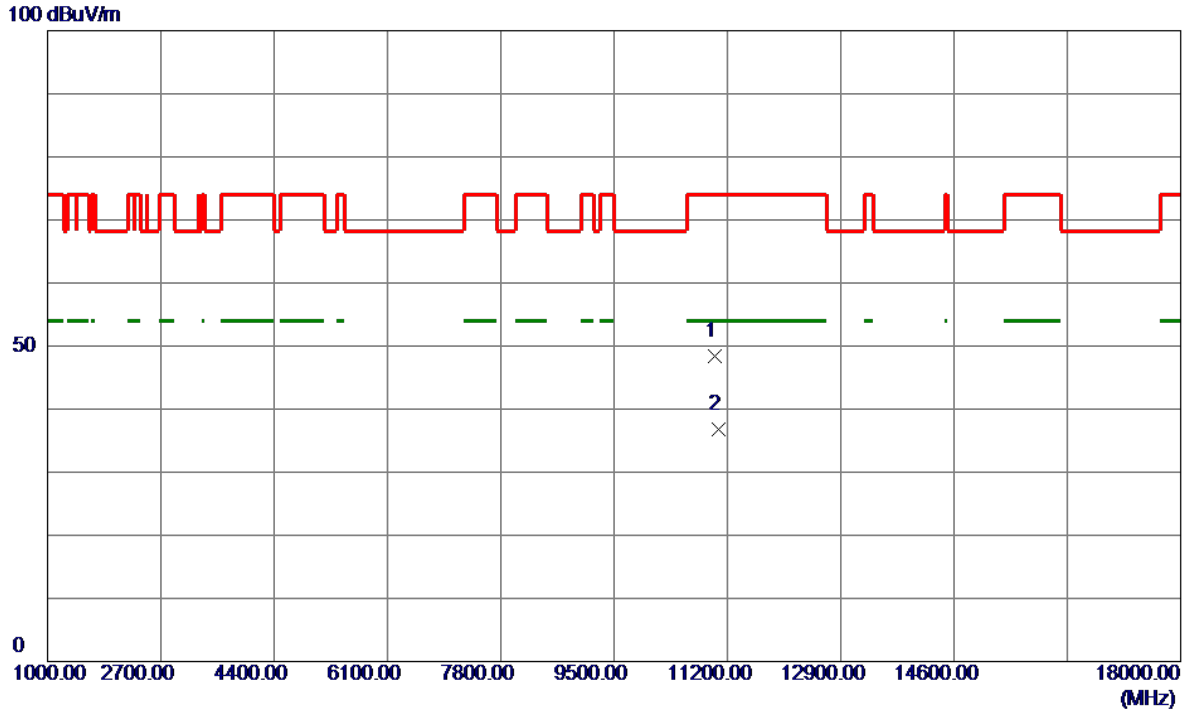
Test Mode	UNII-2C_TX AC(VHT80) Mode 5530 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5453.2000	45.21	14.34	59.55	74.00	-14.45	Peak	
2	5453.2000	35.98	14.34	50.32	54.00	-3.68	AVG	
3	5460.0000	42.34	14.34	56.68	74.00	-17.32	Peak	
4	5460.0000	33.97	14.34	48.31	54.00	-5.69	AVG	
5	5470.0000	46.27	14.34	60.61	68.20	-7.59	Peak	
6 *	5526.4000	91.64	14.40	106.04	68.20	37.84	Peak	No Limit
7	5532.8000	79.75	14.42	94.17	999.00	-904.83	AVG	No Limit

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

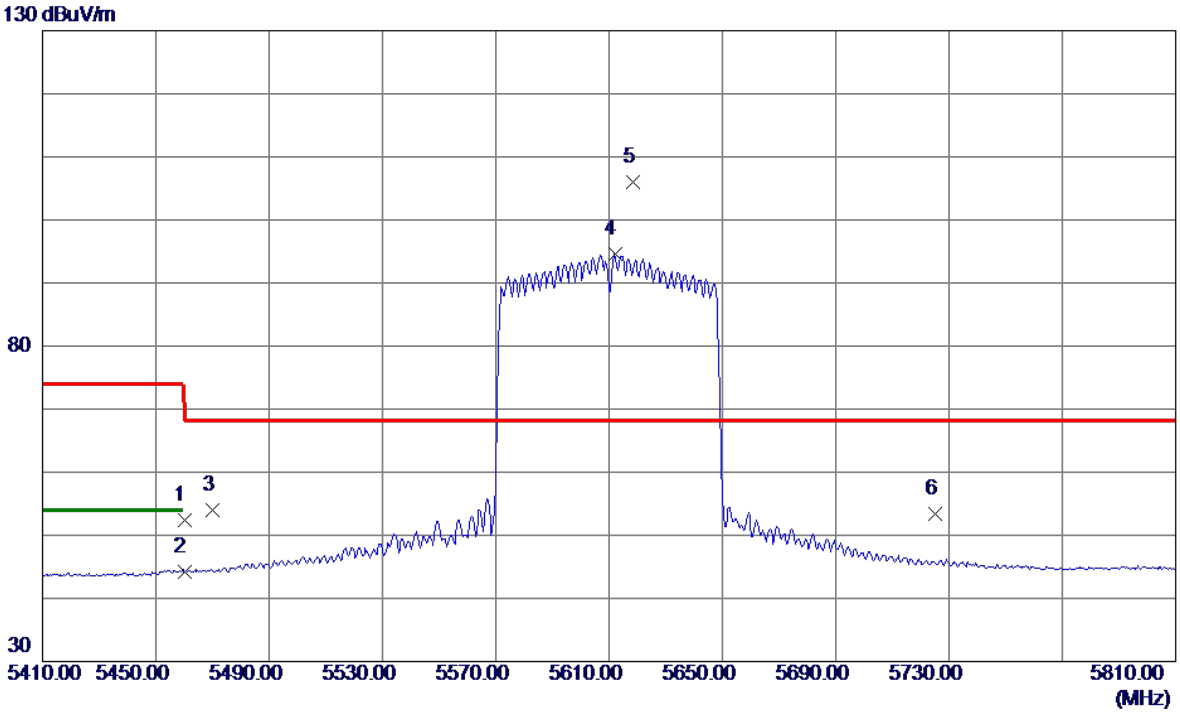
Test Mode	UNII-2C_TX AC(VHT80) Mode 5530 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11019.2000	37.32	11.05	48.37	74.00	-25.63	Peak	
2 *	11069.0000	25.77	11.06	36.83	54.00	-17.17	AVG	

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

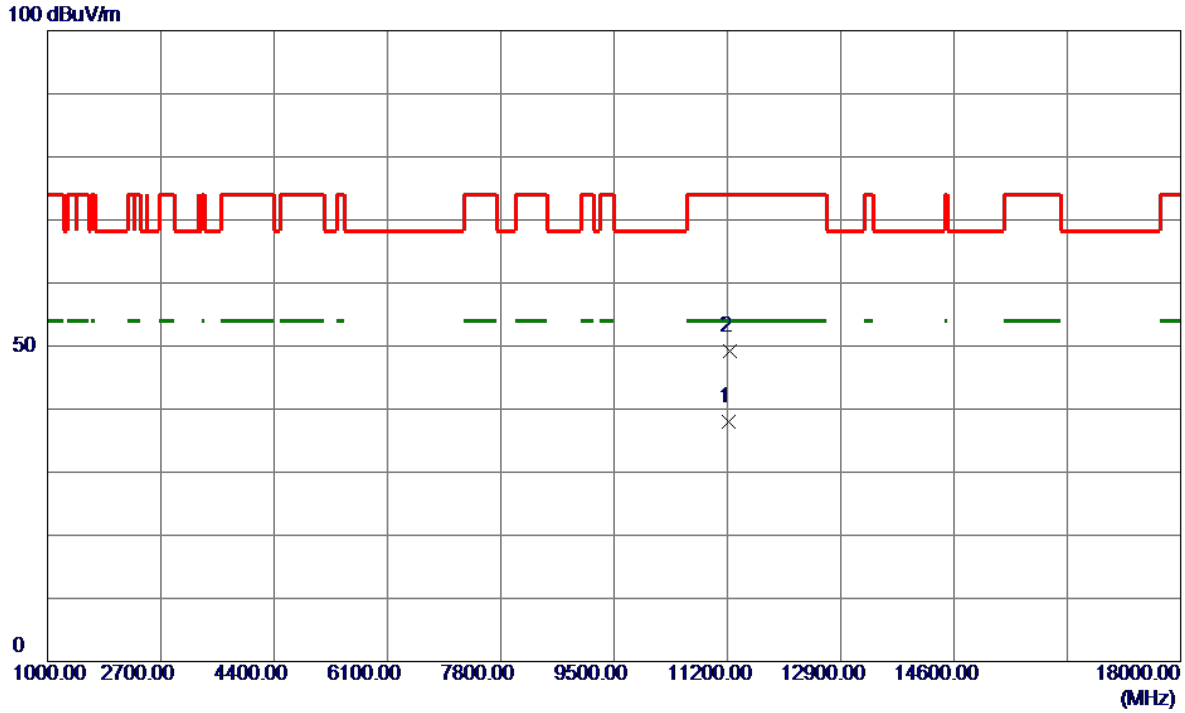
Test Mode	UNII-2C_TX AC(VHT80) Mode 5610 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5460.0000	37.99	14.34	52.33	74.00	-21.67	Peak	
2	5460.0000	29.77	14.34	44.11	54.00	-9.89	AVG	
3	5470.0000	39.68	14.34	54.02	68.20	-14.18	Peak	
4	5612.0000	80.06	14.60	94.66	999.00	-904.34	AVG	No Limit
5 *	5618.4000	91.32	14.61	105.93	68.20	37.73	Peak	No Limit
6	5725.0000	38.54	14.86	53.40	68.20	-14.80	Peak	

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

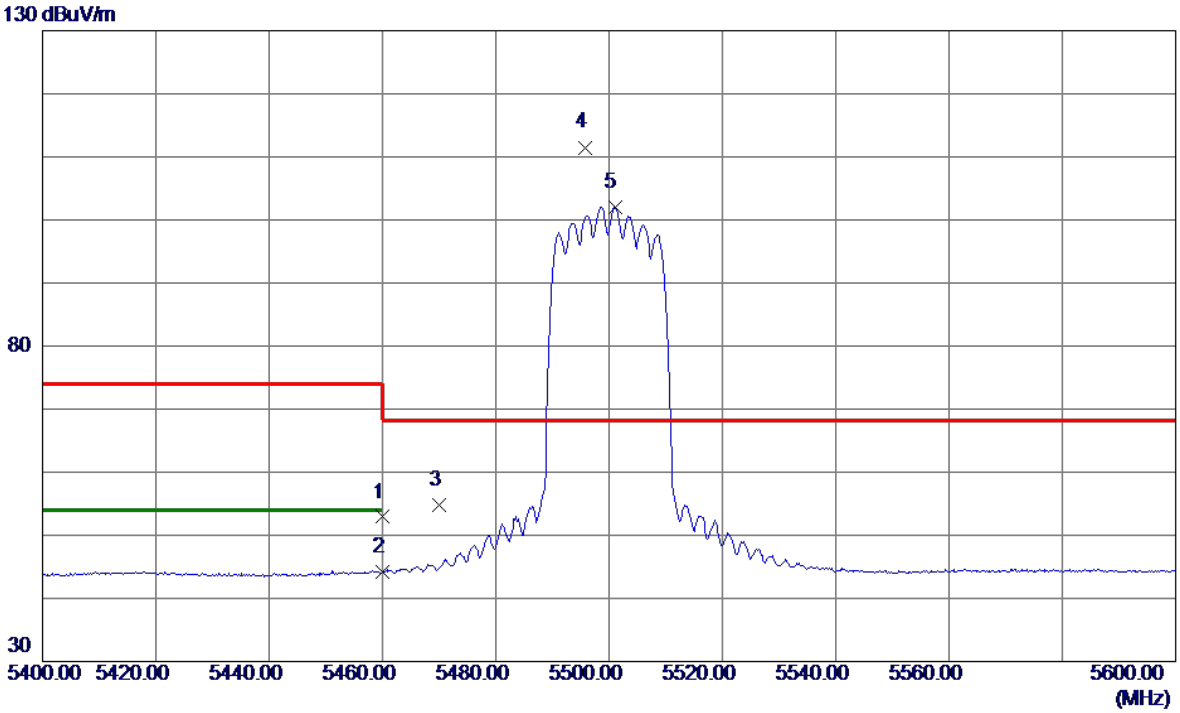
Test Mode	UNII-2C_TX AC(VHT80) Mode 5610 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11218.6000	26.86	11.11	37.97	54.00	-16.03	AVG	
2	11236.6000	38.01	11.11	49.12	74.00	-24.88	Peak	

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

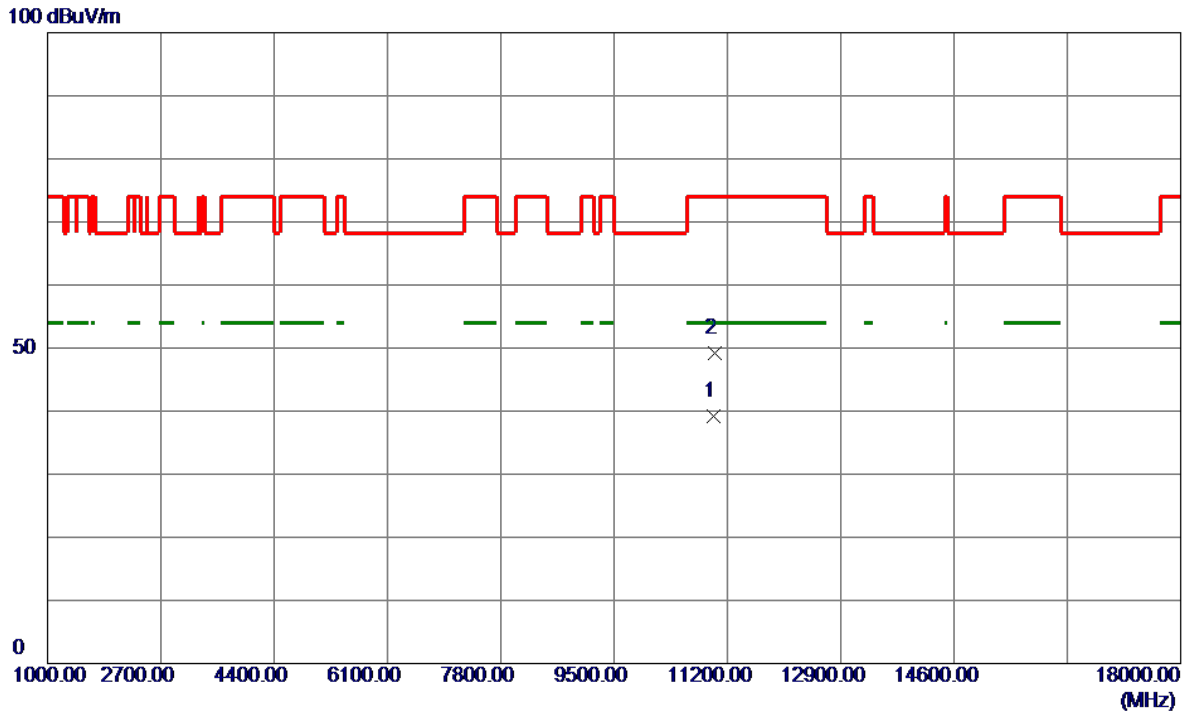
Test Mode	UNII-2C_TX AX(HE20) Mode 5500 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5460.0000	38.56	14.34	52.90	74.00	-21.10	Peak	
2	5460.0000	29.89	14.34	44.23	54.00	-9.77	AVG	
3	5470.0000	40.49	14.34	54.83	68.20	-13.37	Peak	
4 *	5495.8000	97.16	14.34	111.50	68.20	43.30	Peak	No Limit
5	5501.0000	87.69	14.34	102.03	999.00	-896.97	AVG	No Limit

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

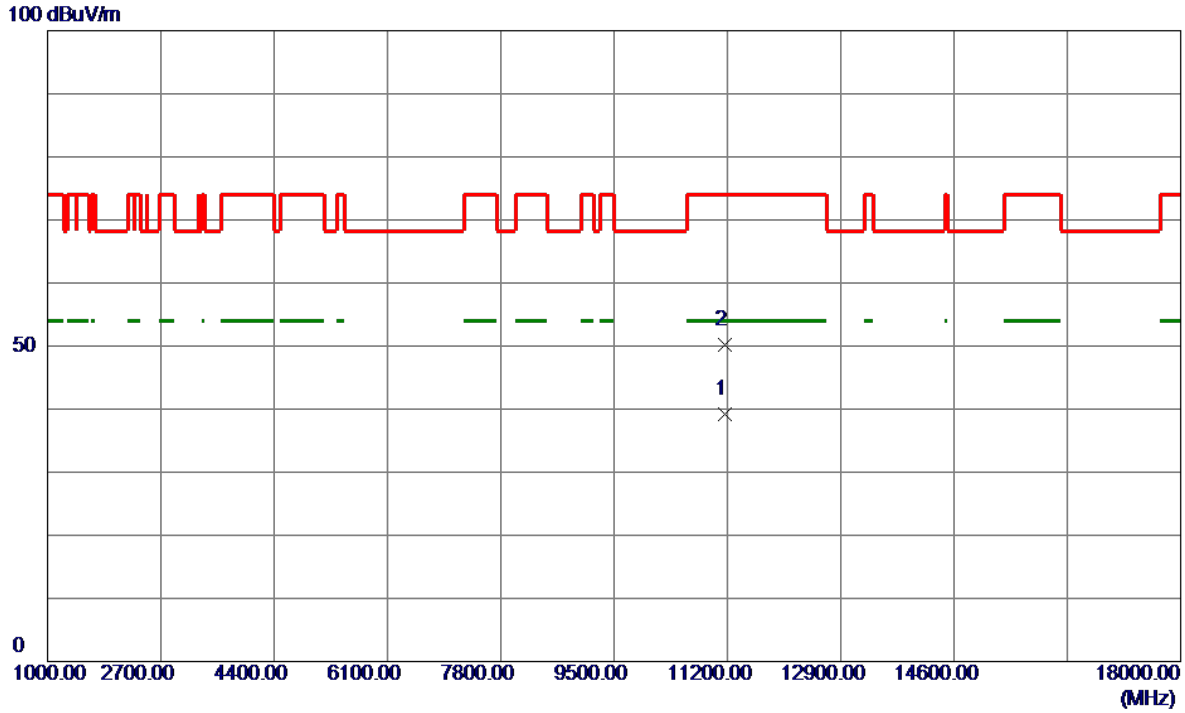
Test Mode	UNII-2C_TX AX(HE20) Mode 5500 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10999.0000	28.10	11.04	39.14	54.00	-14.86	AVG	
2	11001.7000	38.10	11.04	49.14	74.00	-24.86	Peak	

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

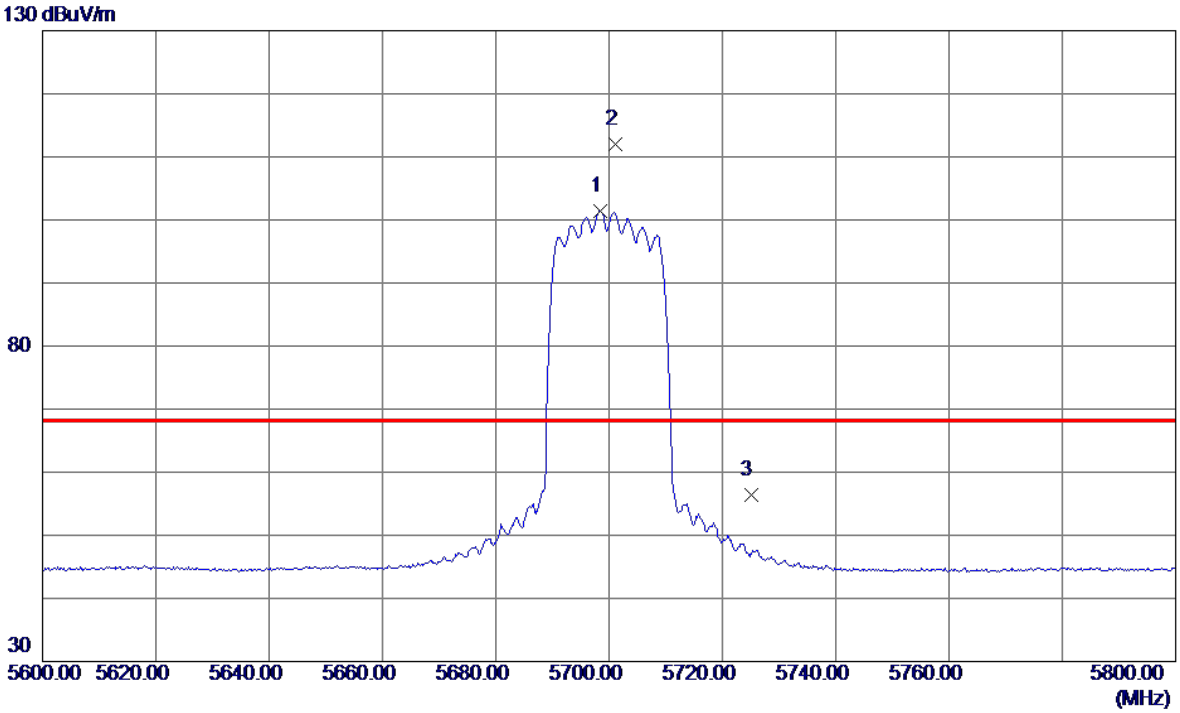
Test Mode	UNII-2C_TX AX(HE20) Mode 5580 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11161.0000	28.05	11.09	39.14	54.00	-14.86	AVG	
2	11164.2000	39.08	11.09	50.17	74.00	-23.83	Peak	

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

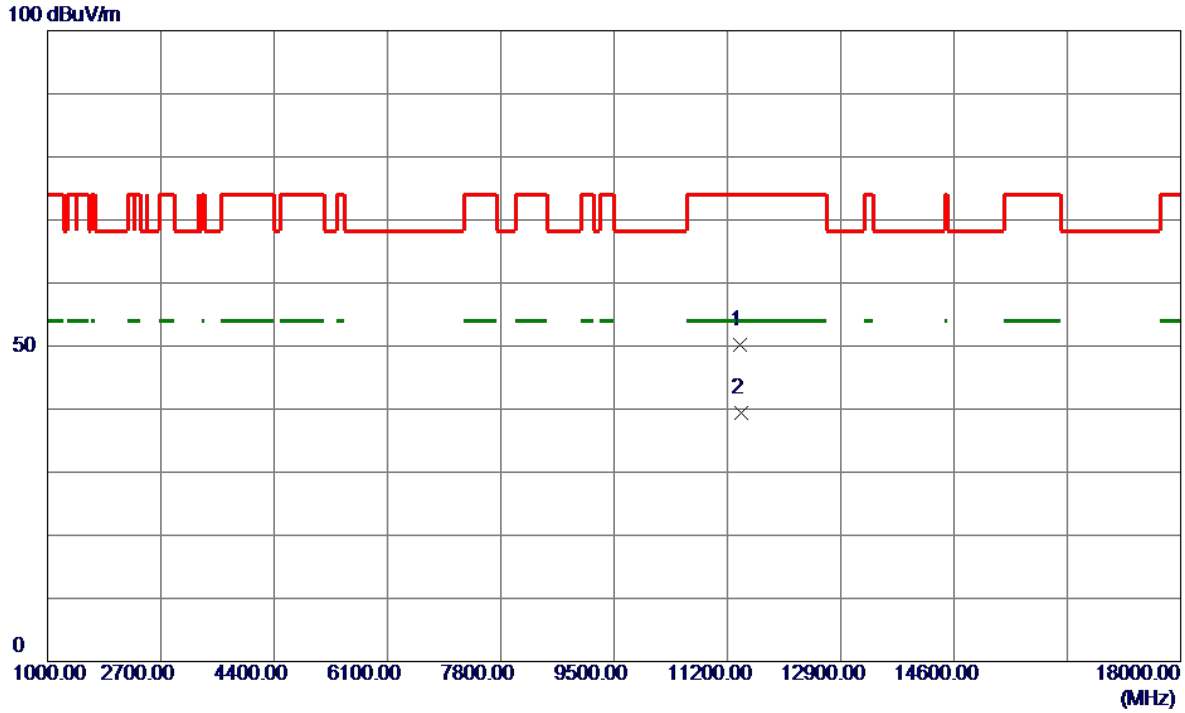
Test Mode	UNII-2C_TX AX(HE20) Mode 5700 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5698.4000	86.62	14.80	101.42	999.00	-897.58	AVG	No Limit
2 *	5701.2000	97.18	14.81	111.99	68.20	43.79	Peak	No Limit
3	5725.0000	41.48	14.86	56.34	68.20	-11.86	Peak	

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

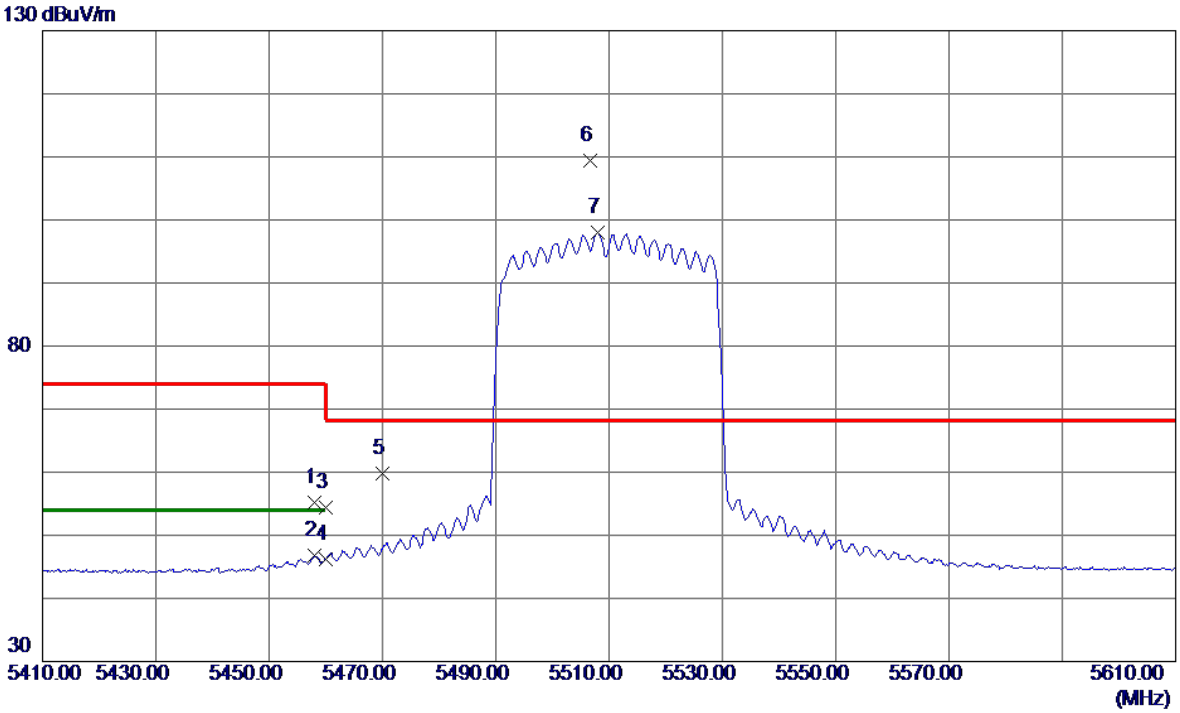
Test Mode	UNII-2C_TX AX(HE20) Mode 5700 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11396.2000	39.04	11.16	50.20	74.00	-23.80	Peak	
2 *	11398.5000	28.33	11.16	39.49	54.00	-14.51	AVG	

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

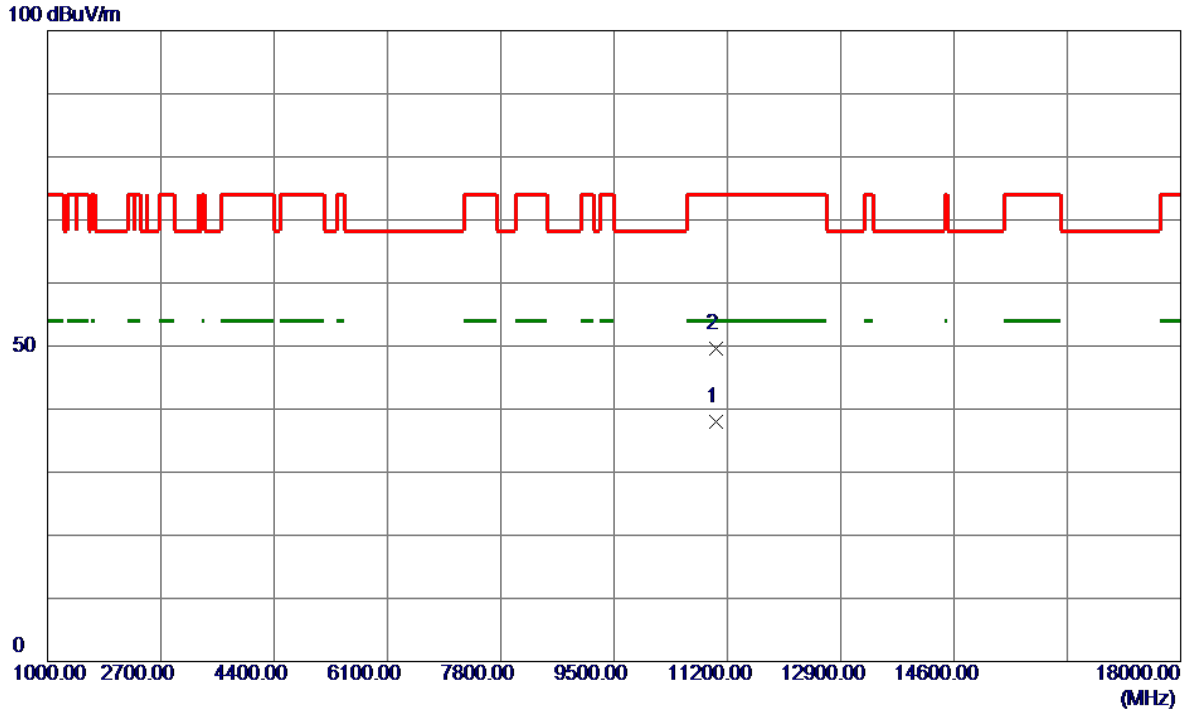
Test Mode	UNII-2C_TX AX(HE40) Mode 5510 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5458.0000	40.81	14.34	55.15	74.00	-18.85	Peak	
2	5458.0000	32.37	14.34	46.71	54.00	-7.29	AVG	
3	5460.0000	40.15	14.34	54.49	74.00	-19.51	Peak	
4	5460.0000	31.92	14.34	46.26	54.00	-7.74	AVG	
5	5470.0000	45.55	14.34	59.89	68.20	-8.31	Peak	
6 *	5506.6000	95.05	14.36	109.41	68.20	41.21	Peak	No Limit
7	5508.0000	83.57	14.36	97.93	999.00	-901.07	AVG	No Limit

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

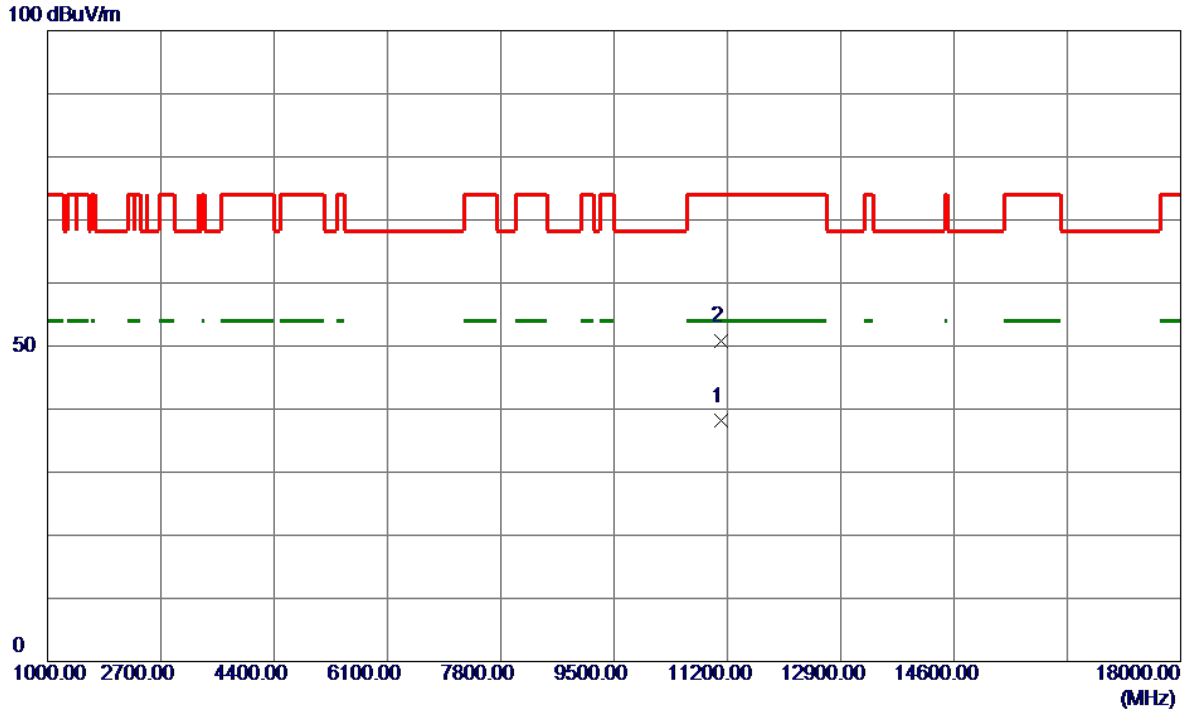
Test Mode	UNII-2C_TX AX(HE40) Mode 5510 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11021.6000	26.93	11.05	37.98	54.00	-16.02	AVG	
2	11026.1000	38.55	11.05	49.60	74.00	-24.40	Peak	

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

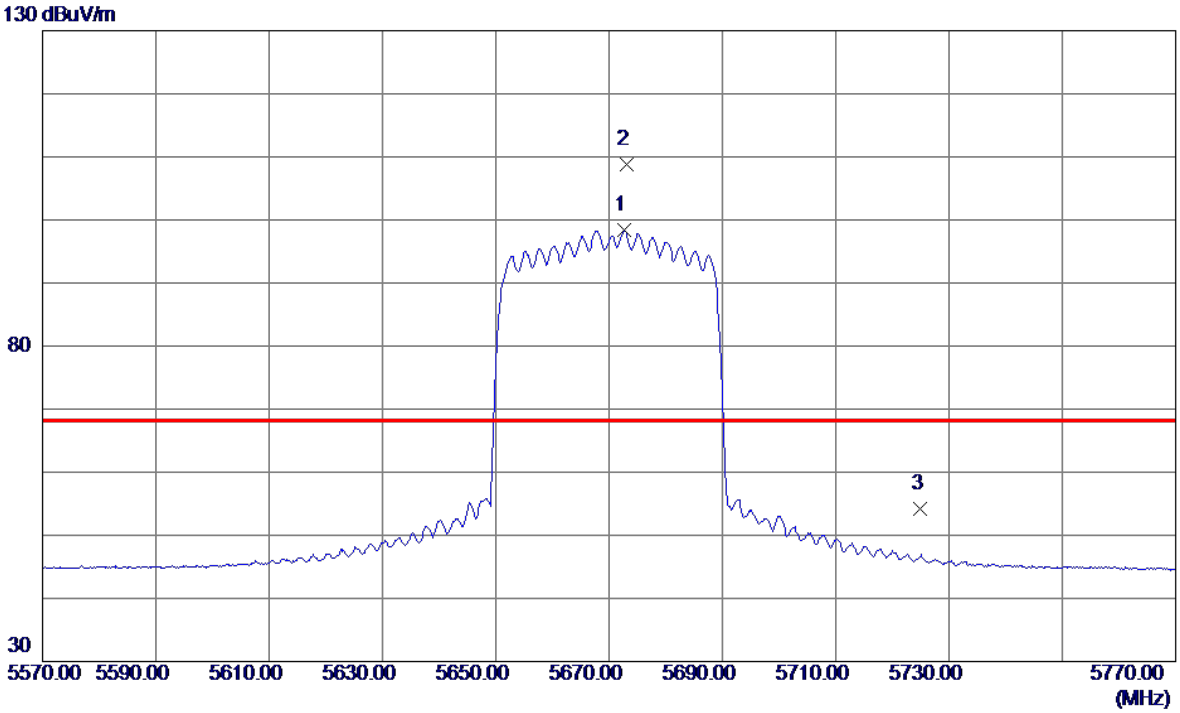
Test Mode	UNII-2C_TX AX(HE40) Mode 5550 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11103.2000	27.03	11.07	38.10	54.00	-15.90	AVG	
2	11103.5000	39.67	11.07	50.74	74.00	-23.26	Peak	

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

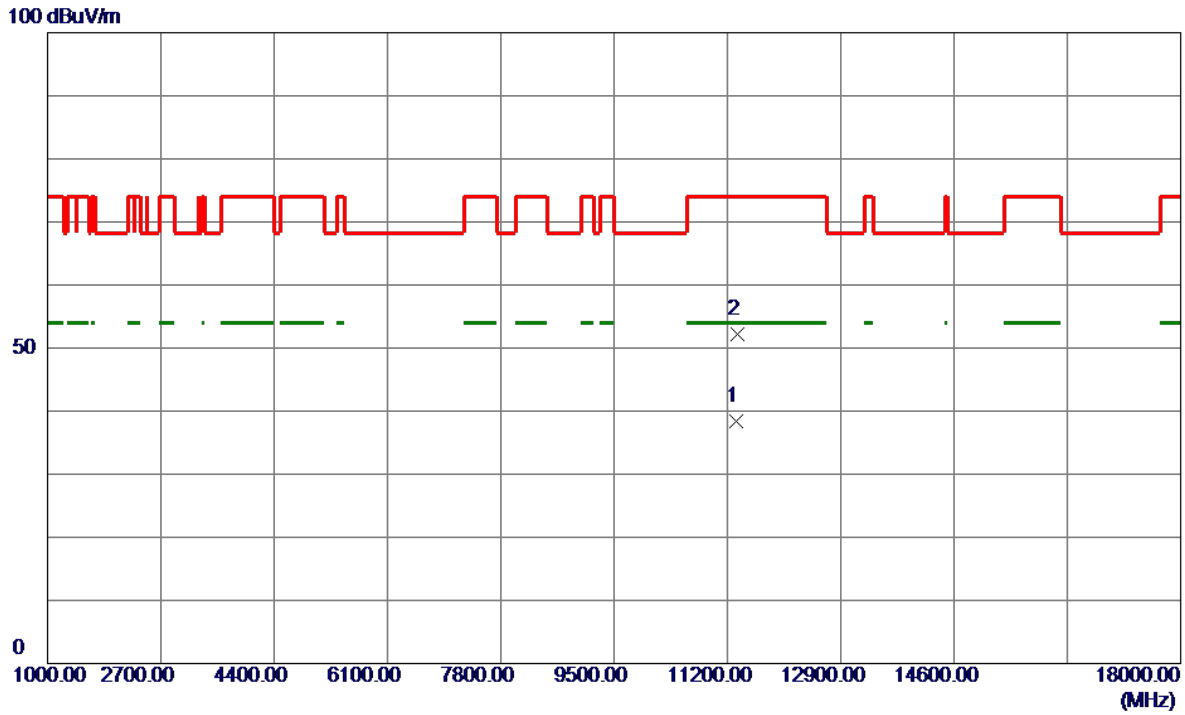
Test Mode	UNII-2C_TX AX(HE40) Mode 5670 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5672.6000	83.63	14.74	98.37	999.00	-900.63	AVG	No Limit
2 *	5673.2000	94.10	14.74	108.84	68.20	40.64	Peak	No Limit
3	5725.0000	39.40	14.86	54.26	68.20	-13.94	Peak	

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

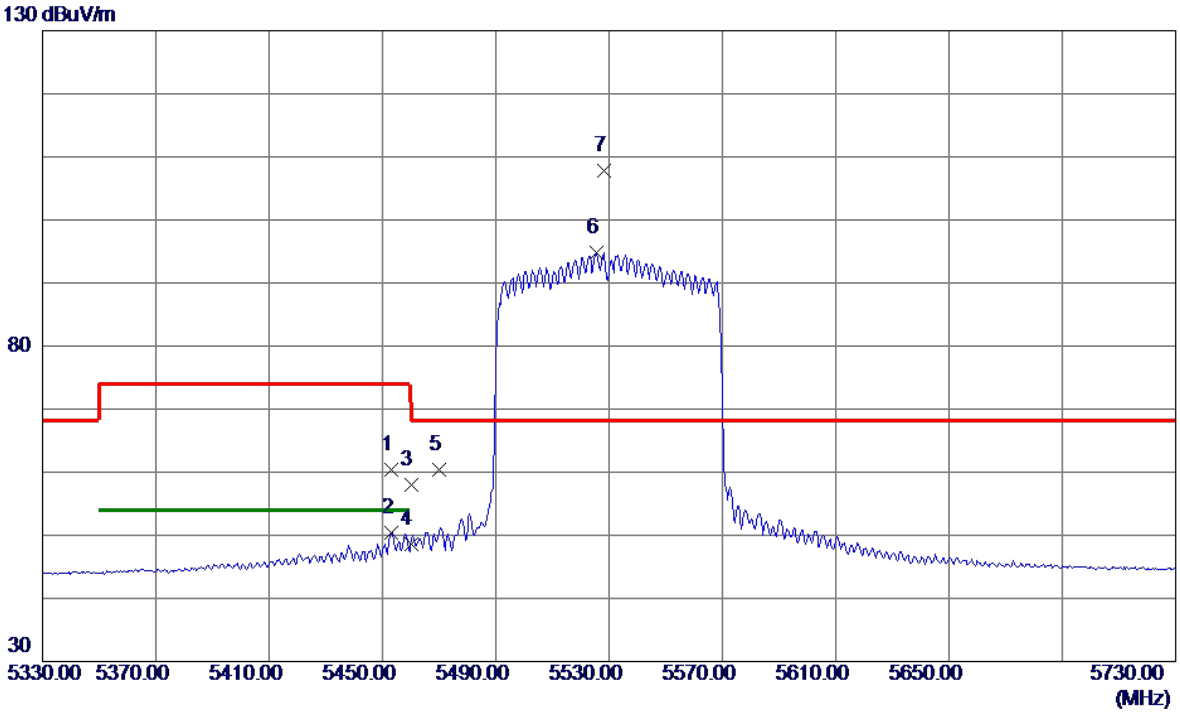
Test Mode	UNII-2C_TX AX(HE40) Mode 5670 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11335.5000	27.17	11.14	38.31	54.00	-15.69	AVG	
2	11346.1000	41.09	11.15	52.24	74.00	-21.76	Peak	

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

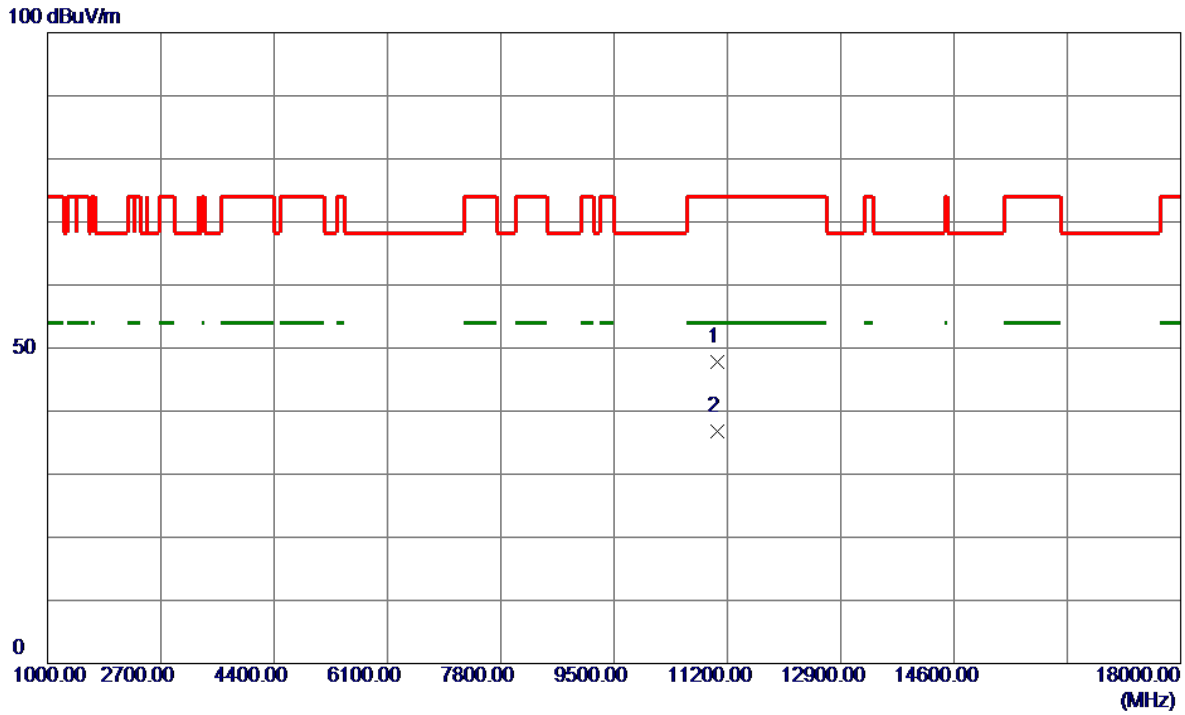
Test Mode	UNII-2C_TX AX(HE80) Mode 5530 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5453.2000	46.14	14.34	60.48	74.00	-13.52	Peak	
2	5453.2000	36.12	14.34	50.46	54.00	-3.54	AVG	
3	5460.0000	43.71	14.34	58.05	74.00	-15.95	Peak	
4	5460.0000	34.25	14.34	48.59	54.00	-5.41	AVG	
5	5470.0000	45.97	14.34	60.31	68.20	-7.89	Peak	
6	5525.6000	80.45	14.40	94.85	999.00	-904.15	AVG	No Limit
7 *	5528.4000	93.35	14.41	107.76	68.20	39.56	Peak	No Limit

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

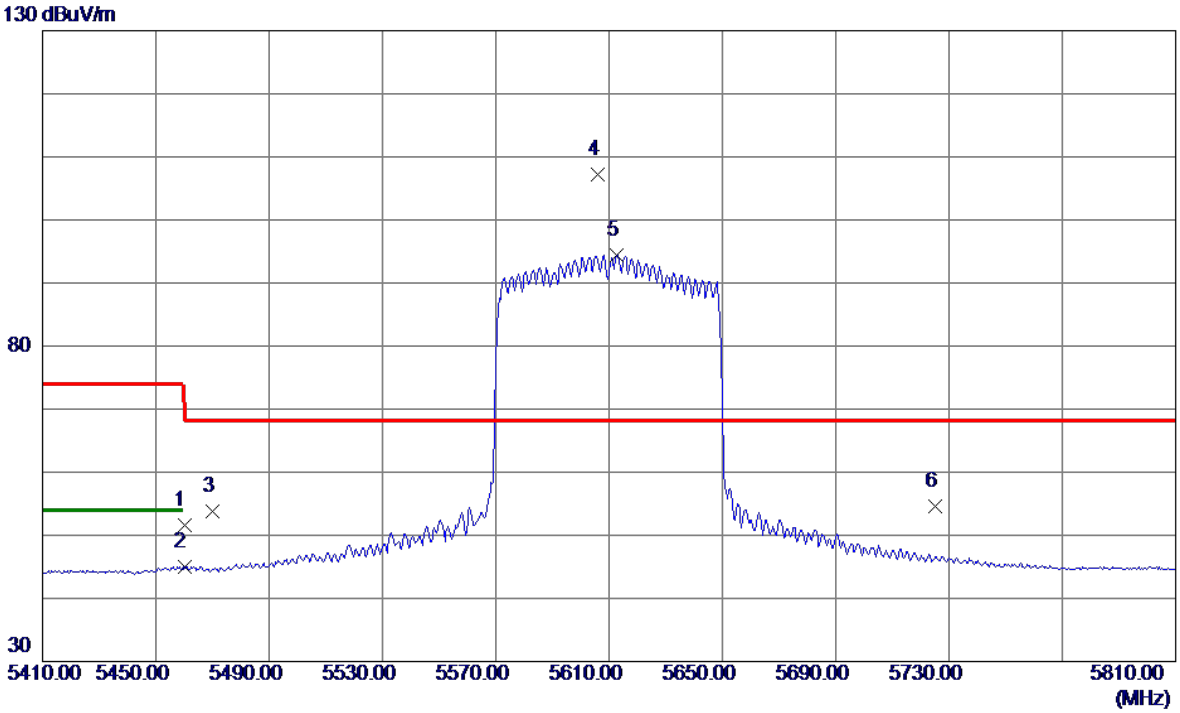
Test Mode	UNII-2C_TX AX(HE80) Mode 5530 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11045.2000	36.70	11.05	47.75	74.00	-26.25	Peak	
2 *	11050.0000	25.82	11.06	36.88	54.00	-17.12	AVG	

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

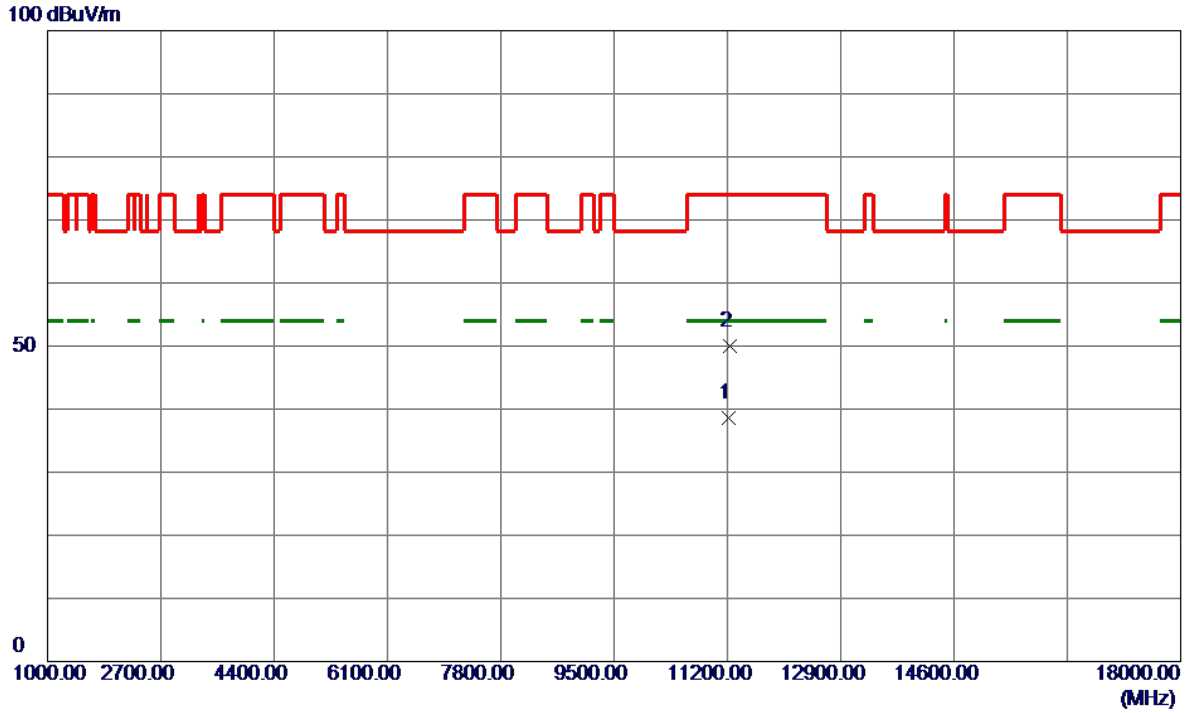
Test Mode	UNII-2C_TX AX(HE80) Mode 5610 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5460.0000	37.32	14.34	51.66	74.00	-22.34	Peak	
2	5460.0000	30.64	14.34	44.98	54.00	-9.02	AVG	
3	5470.0000	39.38	14.34	53.72	68.20	-14.48	Peak	
4 *	5606.0000	92.54	14.59	107.13	68.20	38.93	Peak	No Limit
5	5612.8000	79.89	14.60	94.49	999.00	-904.51	AVG	No Limit
6	5725.0000	39.78	14.86	54.64	68.20	-13.56	Peak	

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

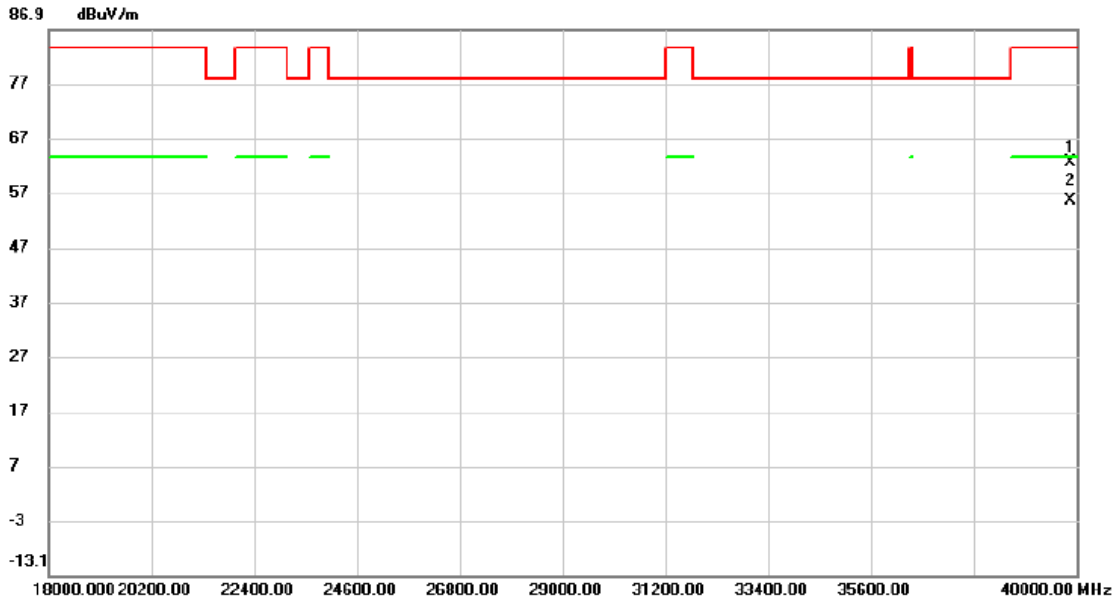
Test Mode	UNII-2C_TX AX(HE80) Mode 5610 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11213.6000	27.41	11.11	38.52	54.00	-15.48	AVG	
2	11231.2000	38.80	11.11	49.91	74.00	-24.09	Peak	

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

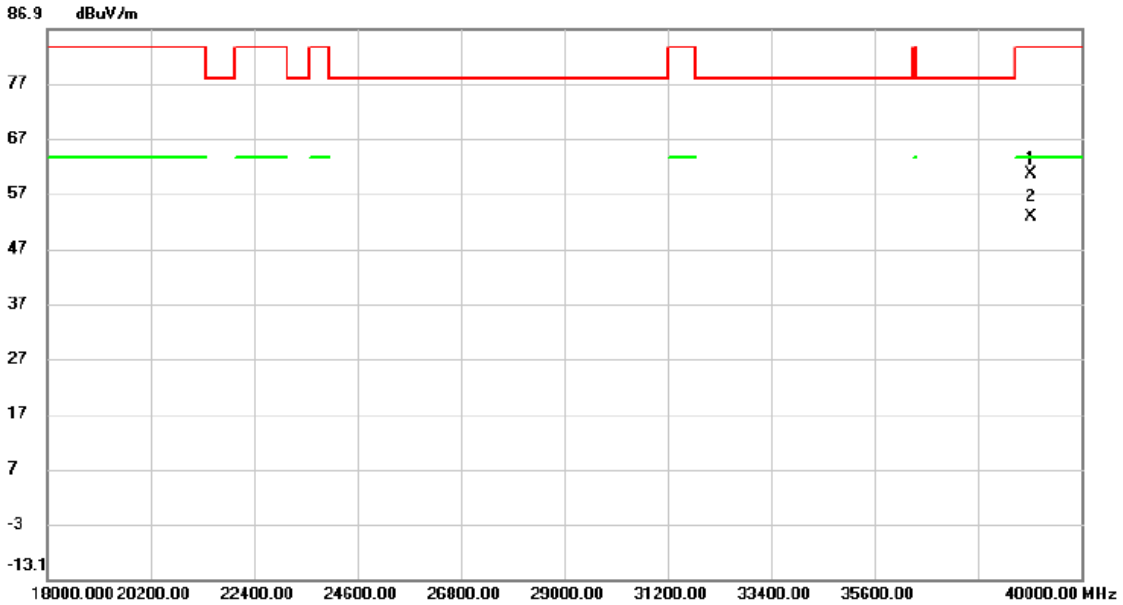
Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Polarization	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		39868.000	47.44	15.13	62.57	83.50	-20.93	peak	
2	*	39868.000	40.36	15.13	55.49	63.50	-8.01	AVG	

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

Test Mode	TX AX(HE80) Mode Channel 106 (UNII-2C)	Polarization	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		38922.000	46.43	14.17	60.60	83.50	-22.90	peak	
2	*	38922.000	38.69	14.17	52.86	63.50	-10.64	AVG	

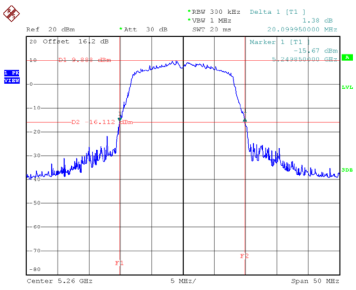
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-2A_TX A Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
52	5260	20.100	16.700
60	5300	20.050	16.700
64	5320	20.150	16.700

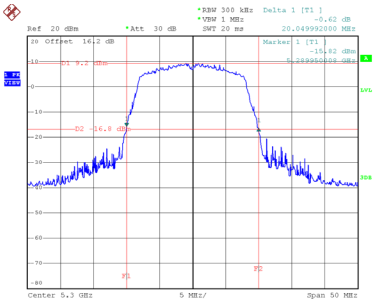
CH52



Date: 10.MAR.2025 19:46:40

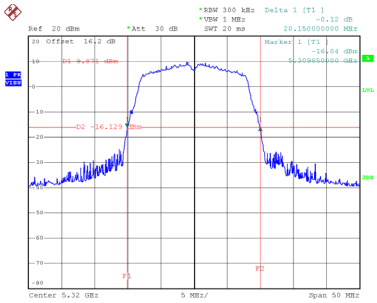
CH60

26 dB Bandwidth

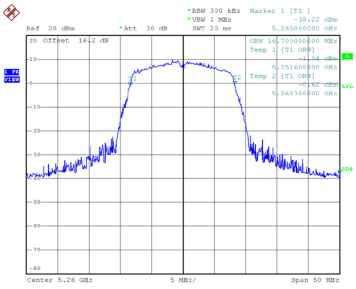


Date: 10.MAR.2025 19:52:17

CH64

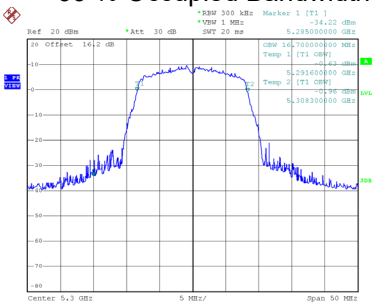


Date: 10.MAR.2025 19:53:23

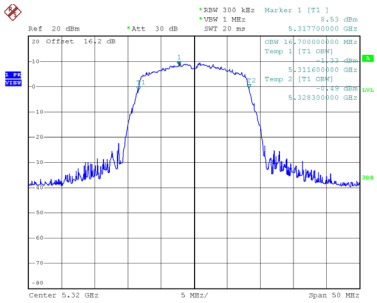


Date: 10.MAR.2025 19:45:58

99 % Occupied Bandwidth



Date: 10.MAR.2025 19:51:32

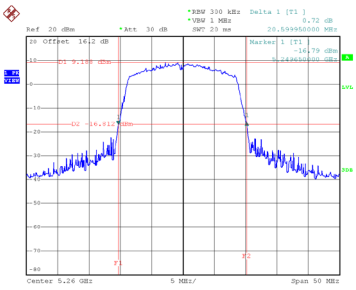


Date: 10.MAR.2025 19:52:41

Test Mode	UNII-2A_TX AC(VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
52	5260	20.600	17.700
60	5300	20.450	17.700
64	5320	20.389	17.700

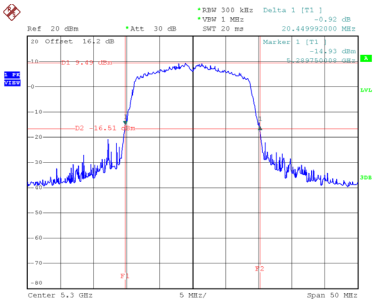
CH52



Date: 10.MAR.2025 19:59:57

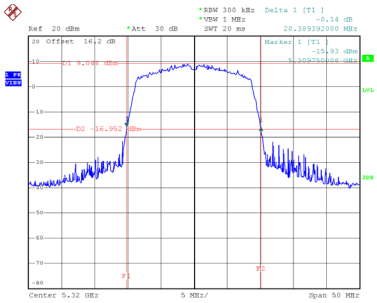
CH60

26 dB Bandwidth

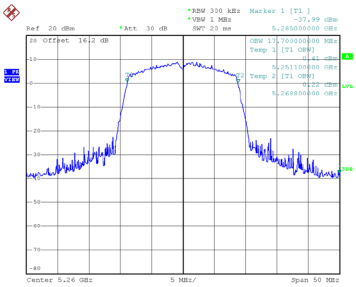


Date: 10.MAR.2025 20:01:08

CH64

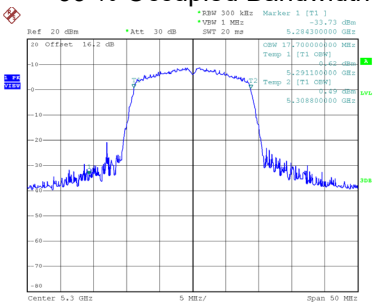


Date: 10.MAR.2025 20:02:17

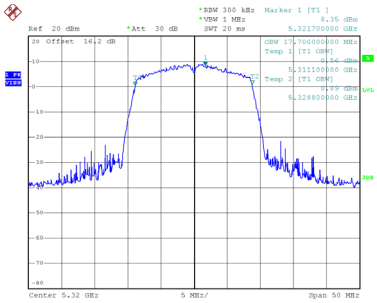


Date: 10.MAR.2025 19:59:14

99 % Occupied Bandwidth



Date: 10.MAR.2025 20:00:25

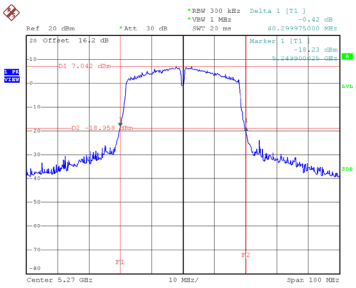


Date: 10.MAR.2025 20:01:32

Test Mode	UNII-2A_TX AC(VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
54	5270	40.300	36.600
62	5310	40.190	36.400

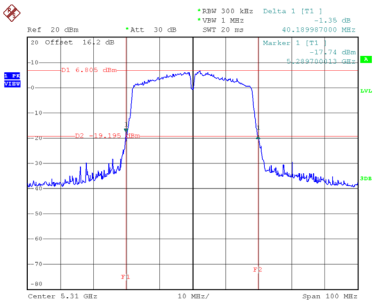
CH54



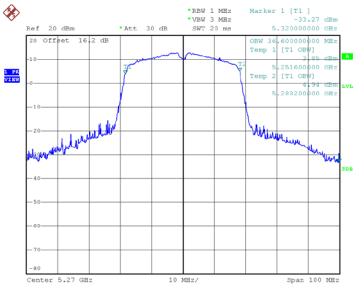
Date: 10.MAR.2025 21:00:29

CH62

26 dB Bandwidth

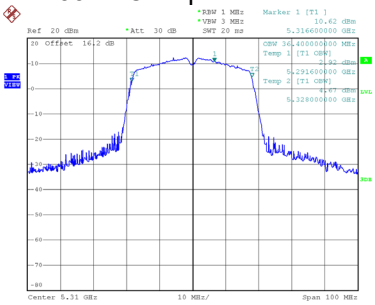


Date: 10.MAR.2025 21:02:04



Date: 10.MAR.2025 20:59:45

99 % Occupied Bandwidth



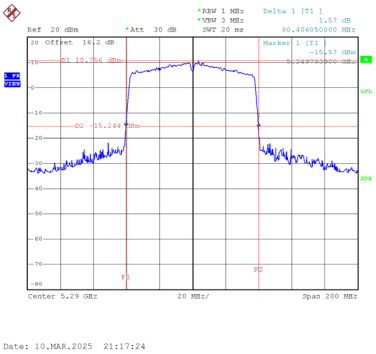
Date: 10.MAR.2025 21:01:16

Test Mode	UNII-2A_TX AC(VHT80) Mode

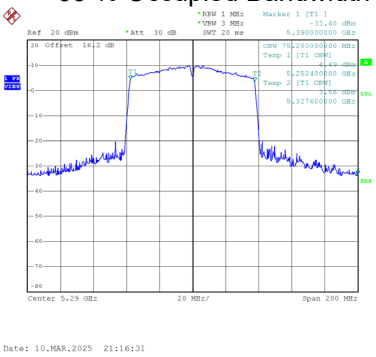
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
58	5290	80.406	75.200

CH58

26 dB Bandwidth



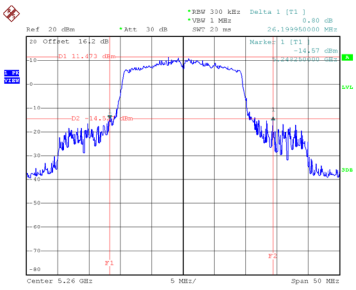
99 % Occupied Bandwidth



Test Mode	UNII-2A_TX AX(HE20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
52	5260	26.200	19.100
60	5300	22.750	19.100
64	5320	23.650	19.000

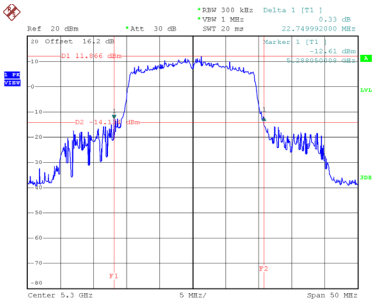
CH52



Date: 10.MAR.2025 20:17:31

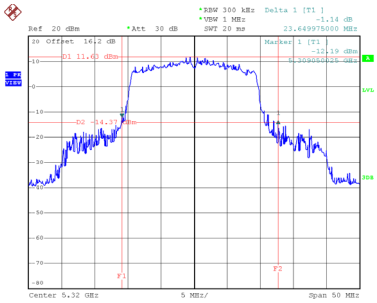
CH60

26 dB Bandwidth

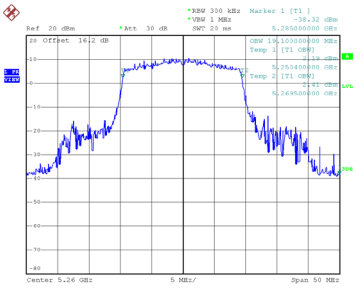


Date: 10.MAR.2025 20:18:36

CH64

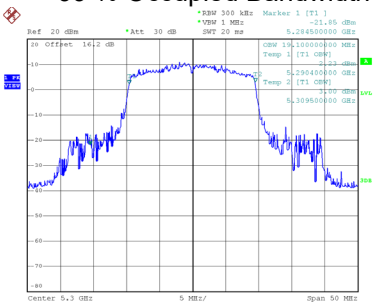


Date: 10.MAR.2025 20:19:41

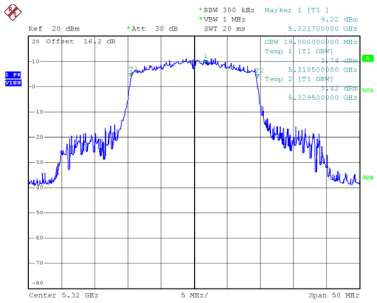


Date: 10.MAR.2025 20:16:56

99 % Occupied Bandwidth



Date: 10.MAR.2025 20:17:57

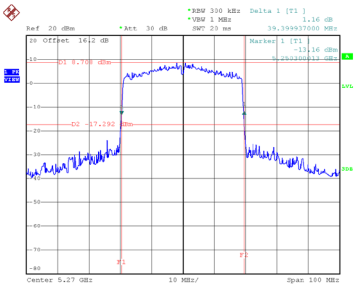


Date: 10.MAR.2025 20:19:02

Test Mode	UNII-2A_TX AX(HE40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
54	5270	39.400	37.800
62	5310	39.700	37.600

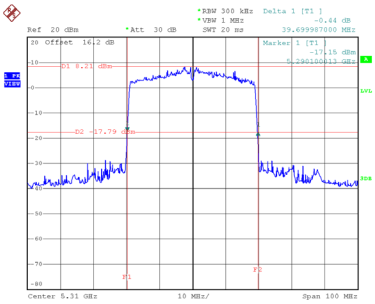
CH54



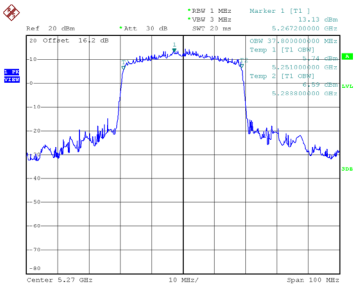
Date: 10.MAR.2025 20:44:14

CH62

26 dB Bandwidth

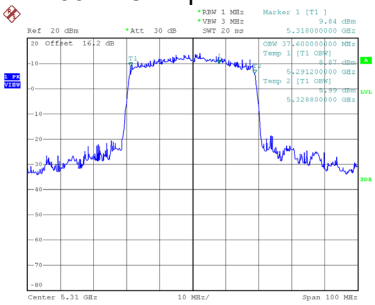


Date: 10.MAR.2025 20:45:41



Date: 10.MAR.2025 20:43:29

99 % Occupied Bandwidth



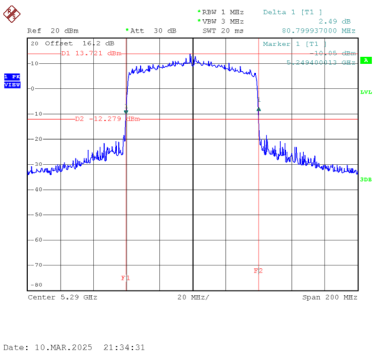
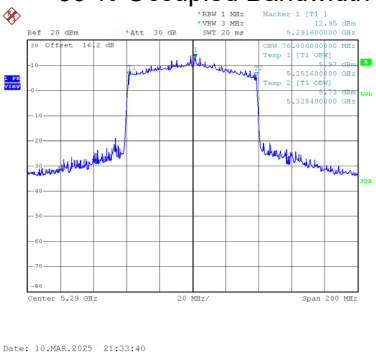
Date: 10.MAR.2025 20:44:57

Test Mode	UNII-2A_TX AX(HE80) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
58	5290	80.800	76.800

CH58

26 dB Bandwidth



99 % Occupied Bandwidth