FCC Radio Test Report

FCC ID:X4YVEK2400G

This report concerns: Original Grant

Project No.	:	2105C152
Equipment	:	VEKTOR G2400AC Whole Home Mesh WiFi System
Brand Name	:	NEXXT SOLUTIONS
Test Model	:	NCM-G2400P
Series Model	:	N/A
Applicant	:	NEXXT SOLUTIONS
Address	:	3505 N.W 107TH AVE. MIAMI, FL 33178
Manufacturer	:	NEXXT SOLUTIONS
Address	:	3505 N.W 107TH AVE. MIAMI, FL 33178
Date of Receipt	:	May 24, 2021
Date of Test	:	May 24, 2021~Jun. 15, 2021
Issued Date	:	Jun. 24, 2021
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2021052491
Standard(s)	:	FCC CFR Title 47, Part 15, Subpart E FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 FCC KDB 662911 D01 Multiple Transmitter Output v02r01 ANSI C63.10-2013

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

Maker Qi

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TESTING CERT #5123.03

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Declaration

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

Limitation

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

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jun. 24, 2021

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC CFR Title 47, Part 15, Subpart E				
Standard(s) Section	**Test Item**	**Test Result**	**Judgment**	**Remark**
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	------
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	------
15.407(a) 15.407(e)	Bandwidth	APPENDIX E	PASS	------
15.407(a)	Maximum Output Power	APPENDIX F	PASS	------
15.407(a)	Power Spectral Density	APPENDIX G	PASS	------
15.407(g)	Frequency Stability	APPENDIX H	PASS	------
15.203	Antenna Requirements	------	PASS	**NOTE (2)**
15.407(c)	Automatically Discontinue Transmission	------	PASS	**NOTE (3)**

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

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210,China
BTL's Test Firm Registration Number for FCC: 476765
BTL's Designation Number for FCC: CN1241

1.2 MEASUREMENT UNCERTAINTY

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

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
SH-C01	CISPR	150 kHz ~ 30 MHz	2.70

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
SH-CB01	CISPR	9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	4.04
		30 MHz~200 MHz	H	3.76
		200 MHz~1,000 MHz	V	4.24
		200 MHz~1,000 MHz	H	3.84
		1 GHz~18 GHz	V	4.46
		1 GHz~18 GHz	H	4.40
		18 GHz~40 GHz	V	3.95
		18 GHz~40 GHz	H	3.95

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	24°C	55%	AC 120V/60Hz AC 240V/50Hz	Andrews Tu
Radiated Emissions-30MHz to 1000MHz	24°C	58%	AC 120V/60Hz	Cookie Huang
Radiated Emissions-Above 1000 MHz	24°C	58%	AC 120V/60Hz	Cookie Huang
Bandwidth	24°C	51%	AC 120V/60Hz	Vince Zong
Maximum Output Power	24°C	51%	AC 120V/60Hz	Vince Zong
Power Spectral Density	24°C	51%	AC 120V/60Hz	Vince Zong

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	VEKTOR G2400AC Whole Home Mesh WiFi System
Brand Name	NEXXT SOLUTIONS
Test Model	NCM-G2400P
Series Model	N/A
Model Difference(s)	N/A
Software Version	N/A
Hardware Version	N/A
Power Source	DC voltage supplied from AC/DC adapter. Model: BN073-A12012U
Power Rating	I/P:100-240V~ 50/60Hz 0.4A O/P: 12V⎓ 1A
Operation Frequency Band(s)	UNII-1: 5150 MHz ~ 5250 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM
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 866.6 Mbps
Maximum Output Power _UNII-1 CDD	IEEE 802.11ac20: 28.78 dBm (0.7551 W)
Maximum Output Power _UNII-3 CDD	IEEE 802.11ac20: 28.91 dBm (0.7780 W)
Maximum Output Power _UNII-1 Beamforming	IEEE 802.11ac20: 28.64 dBm (0.7311 W)
Maximum Output Power _UNII-3 Beamforming	IEEE 802.11ac20: 28.76 dBm (0.7516 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 802.11n(HT40) IEEE 802.11ac(VHT40)		IEEE 802.11ac(VHT80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

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

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	3
2	N/A	N/A	PCB	N/A	3

Note:

1.This EUT supports Beamforming and CDD, all antennas have the same gain, any transmit signals are correlated with each other, so

1) Beamforming:
Directional gain = $10\log[(10^{G1/20}+10^{G2/20}+\ldots+10^{GN/20})^2/N_{ANT}]$dBi,
that is Directional gain=$10\log[(10^{G1/20}+10^{G2/20}+\ldots+10^{GN/20})^2/N_{ANT}]$dBi =6.01;
Then, the UNII-1, UNII-3 output power limit is 30-6.01+6=29.99.
The UNII-1 power spectral density limit is 17-6.01+6=16.99,
the UNII-3 power spectral density limit is 30-6.01+6=29.99.

2) CDD:
For power spectral density measurements, the Directional gain=G_{ANT}+Array Gain,
that is Directional gain=3+10log(2/1) =6.01;
Then, the UNII-1 power spectral density limited is 17-6.01+6=16.99,
the UNII-3 power spectral density limit is 30-6.01+6=29.99.
For power meansurements, Directional gain= $G_{ANT\ MAX.}$+Array Gain.
Array Gain=0dB(N_{ANT}≤4), so the Directional gain=3.

2. The antenna gain and beamforming gain are provided by the manufacturer.

4. Table for Antenna Configuration:

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

2.2 TEST MODES

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

Pretest Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)
Mode 13	TX AC(VHT20) Mode Channel 165 (UNII-3)

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 13	TX AC(VHT20) Mode Channel 165 (UNII-3)

Radiated Emissions Test - Below 1GHz	
Final Test Mode	Description
Mode 13	TX AC(VHT20) Mode Channel 165 (UNII-3)

Radiated Emissions Test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)

Conducted Test	
Final Test Mode	Description
Mode 1	TX A Mode Channel 36/40/48 (UNII-1)
Mode 2	TX N(HT20) Mode Channel 36/40/48 (UNII-1)
Mode 3	TX N(HT40) Mode Channel 38/46 (UNII-1)
Mode 4	TX AC(VHT20) Mode Channel 36/40/48 (UNII-1)
Mode 5	TX AC(VHT40) Mode Channel 38/46 (UNII-1)
Mode 6	TX AC(VHT80) Mode Channel 42 (UNII-1)
Mode 7	TX A Mode Channel 149/157/165 (UNII-3)
Mode 8	TX N(HT20) Mode Channel 149/157/165 (UNII-3)
Mode 9	TX N(HT40) Mode Channel 151/159 (UNII-3)
Mode 10	TX AC(VHT20) Mode Channel 149/157/165 (UNII-3)
Mode 11	TX AC(VHT40) Mode Channel 151/159 (UNII-3)
Mode 12	TX AC(VHT80) Mode Channel 155 (UNII-3)

Note:
(1) For AC power line conducted emissions and radiated emission below 1 GHz test, the TX AC(VHT20) Mode Channel 165 (UNII-3) is found to be the worst case and recorded.
(2) For radiated emission above 1 GHz test, the spurious points of 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
(3) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
(4) The measurements for Output Power are tested, the worst case are IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode, and IEEE 802.11ac(VHT80) mode, only the worst cases are documented for other test items.
(5) The measurements for Output Power are tested, the CDD and Beamforming are recorded in the report. The worst case is CDD and only the worst case is documented for other test items.

2.3 PARAMETERS OF TEST SOFTWARE

CDD

UNII-1			
Test Software Version	MP_TEST V3.4		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	42	55	58
IEEE 802.11n(HT20)	40	55	58
IEEE 802.11ac(VHT20)	40	55	58
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	35	47	
IEEE 802.11ac(VHT40)	35	47	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	33		

UNII-3			
Test Software Version	MP_TEST V3.4		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	58	58	58
IEEE 802.11n(HT20)	58	58	58
IEEE 802.11ac(VHT20)	58	58	58
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	50	57	
IEEE 802.11ac(VHT40)	50	57	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	44		

Beamforming

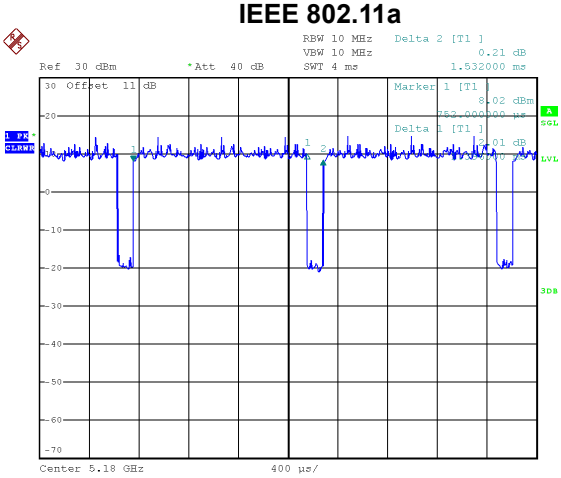
UNII-1			
Test Software Version	MP_TEST V3.4		
Frequency (MHz)	5180	5200	5240
IEEE 802.11n(HT20)	40	55	58
IEEE 802.11ac(VHT20)	40	55	58
Frequency (MHz)	5190	5230	
IEEE 802.11n(HT40)	35	47	
IEEE 802.11ac(VHT40)	35	47	
Frequency (MHz)	5210		
IEEE 802.11ac(VHT80)	33		

UNII-3			
Test Software Version	MP_TEST V3.4		
Frequency (MHz)	5745	5785	5825
IEEE 802.11n(HT20)	58	58	58
IEEE 802.11ac(VHT20)	58	58	58
Frequency (MHz)	5755	5795	
IEEE 802.11n(HT40)	50	57	
IEEE 802.11ac(VHT40)	50	57	
Frequency (MHz)	5775		
IEEE 802.11ac(VHT80)	44		

2.4 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.

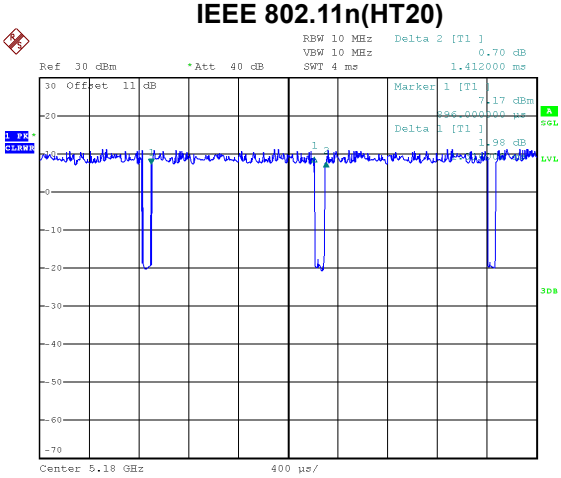
IEEE 802.11a



Date: 31.MAY.2021 21:43:39

Duty cycle = 1.396 ms / 1.532 ms = 91.12%
Duty Factor = 10 log(1 / Duty cycle) = 0.40

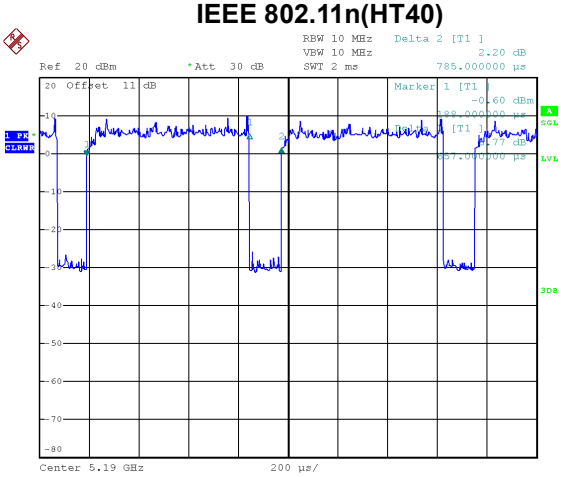
IEEE 802.11n(HT20)



Date: 31.MAY.2021 21:46:05

Duty cycle = 1.316 ms / 1.412 ms = 93.20%
Duty Factor = 10 log(1 / Duty cycle) = 0.31

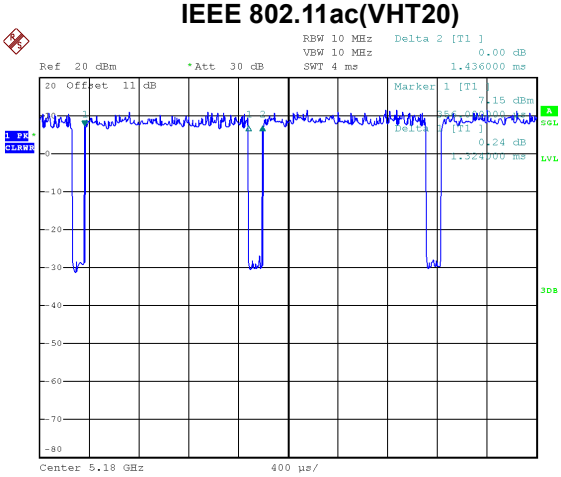
IEEE 802.11n(HT40)



Date: 31.MAY.2021 21:47:55

Duty cycle = 0.657 ms / 0.785 ms = 83.69%
Duty Factor = 10 log(1 / Duty cycle) = 0.77

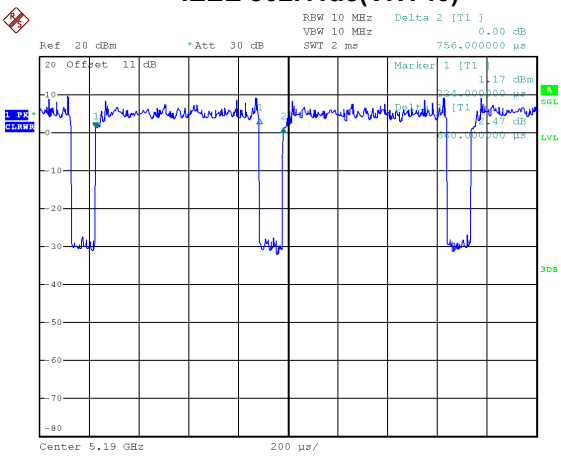
IEEE 802.11ac(VHT20)



Date: 31.MAY.2021 21:49:15

Duty cycle = 1.324 ms / 1.436 ms = 92.20%
Duty Factor = 10 log(1 / Duty cycle) = 0.35

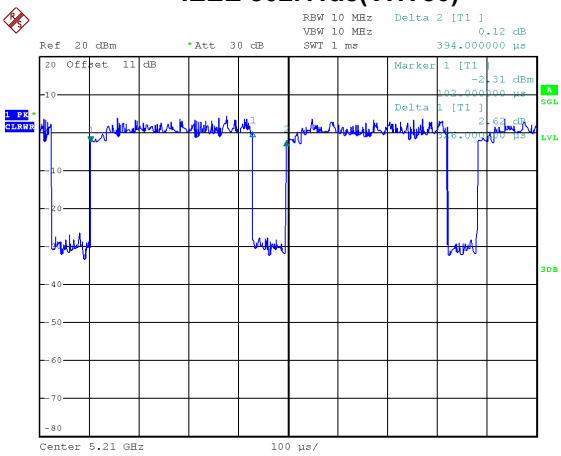
IEEE 802.11ac(VHT40)



Date: 31.MAY.2021 21:52:54

Duty cycle = 0.660 ms / 0.756 ms = 87.30%
Duty Factor = 10 log(1 / Duty cycle) = 0.59

IEEE 802.11ac(VHT80)



Date: 31.MAY.2021 21:54:42

Duty cycle = 0.326 ms / 0.394 ms = 82.74%
Duty Factor = 10 log(1 / Duty cycle) = 0.82

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

For IEEE 802.11n(HT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

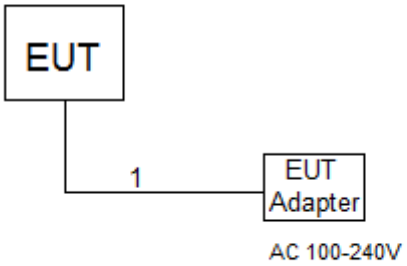
For IEEE 802.11n(HT40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac(VHT20):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11ac(VHT40):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac(VHT80):
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 4 kHz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	N/A	N/A	1m

3. AC POWER LINE CONDUCTED EMISSIONS

3.1 LIMIT

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

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

3.2 TEST PROCEDURE

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

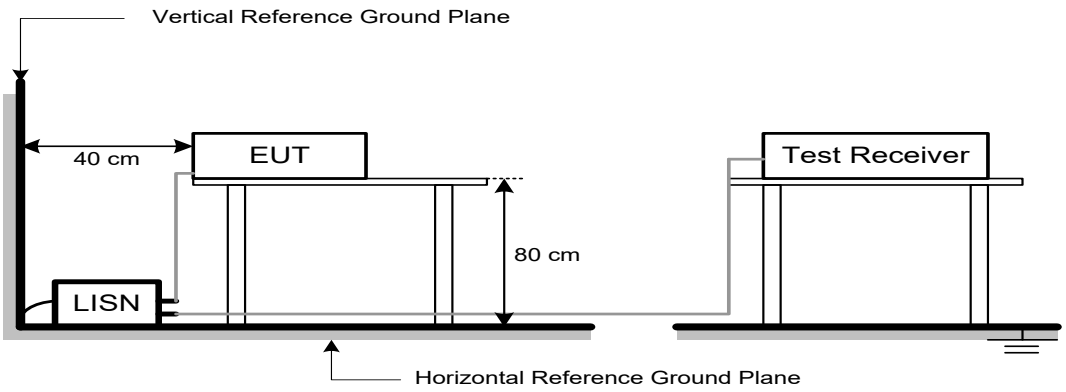
The following table is the setting of the receiver:

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

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

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

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS

4.1 LIMIT

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

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

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

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

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.2
5725-5850 **NOTE (2)**	-27	68.2
	10	105.2
	15.6	110.8
	27	122.2

NOTE:

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

$$E = \frac{1000000\sqrt{30P}}{3}$$ 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.

4.2 TEST PROCEDURE

a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1 GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1 GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

The following table is the setting of the receiver:

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

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

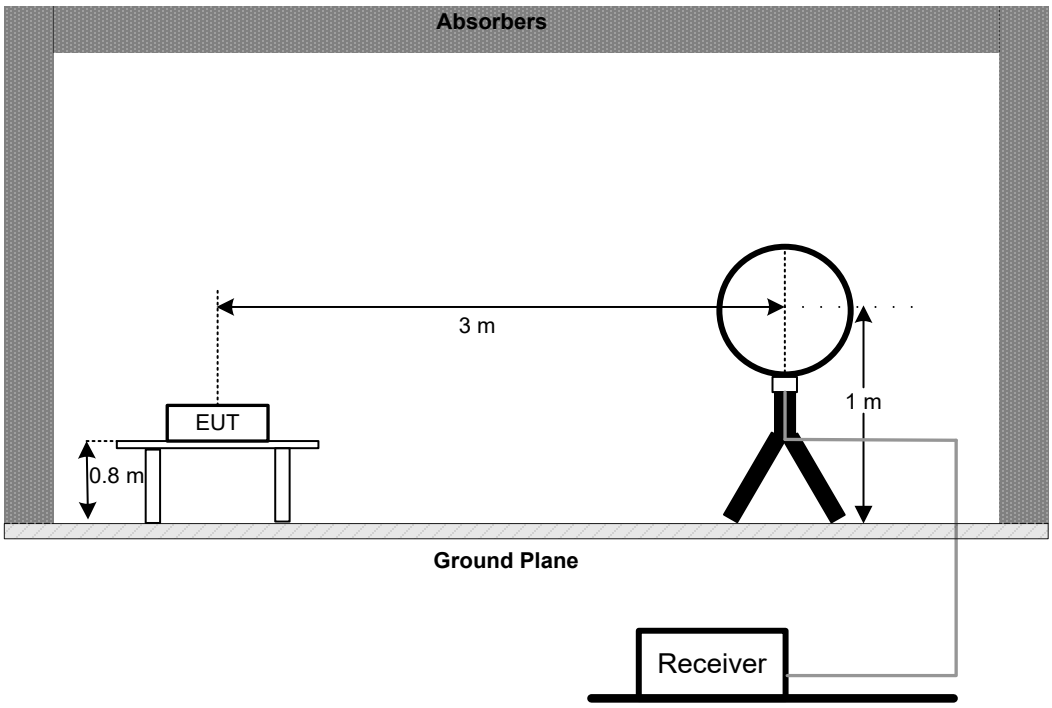
Receiver Parameters	Setting
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector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

4.3 DEVIATION FROM TEST STANDARD

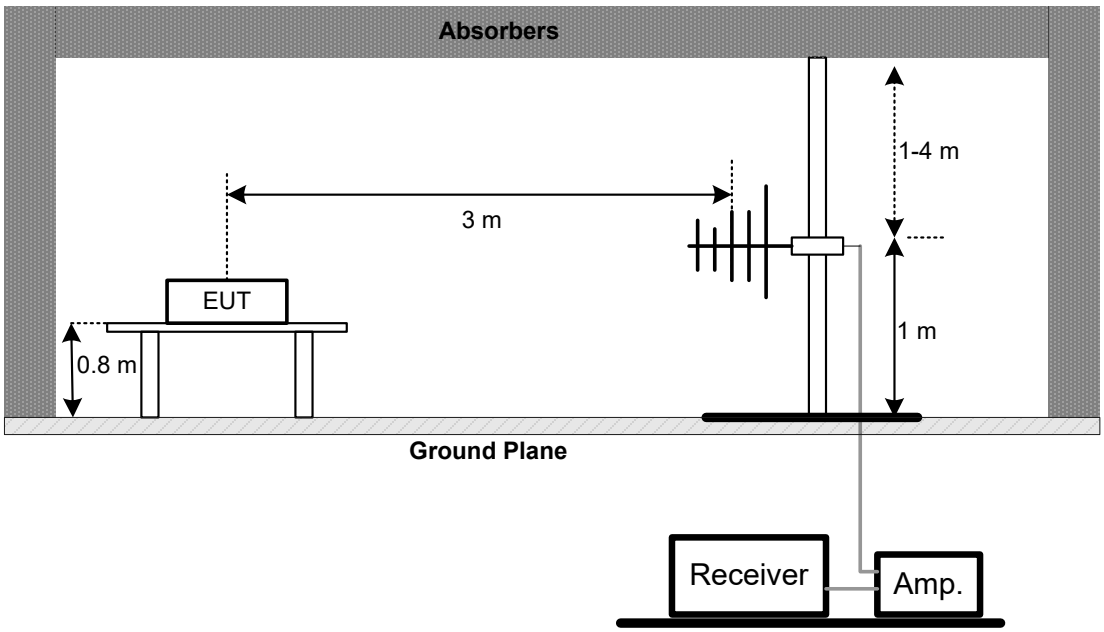
No deviation.

4.4 TEST SETUP

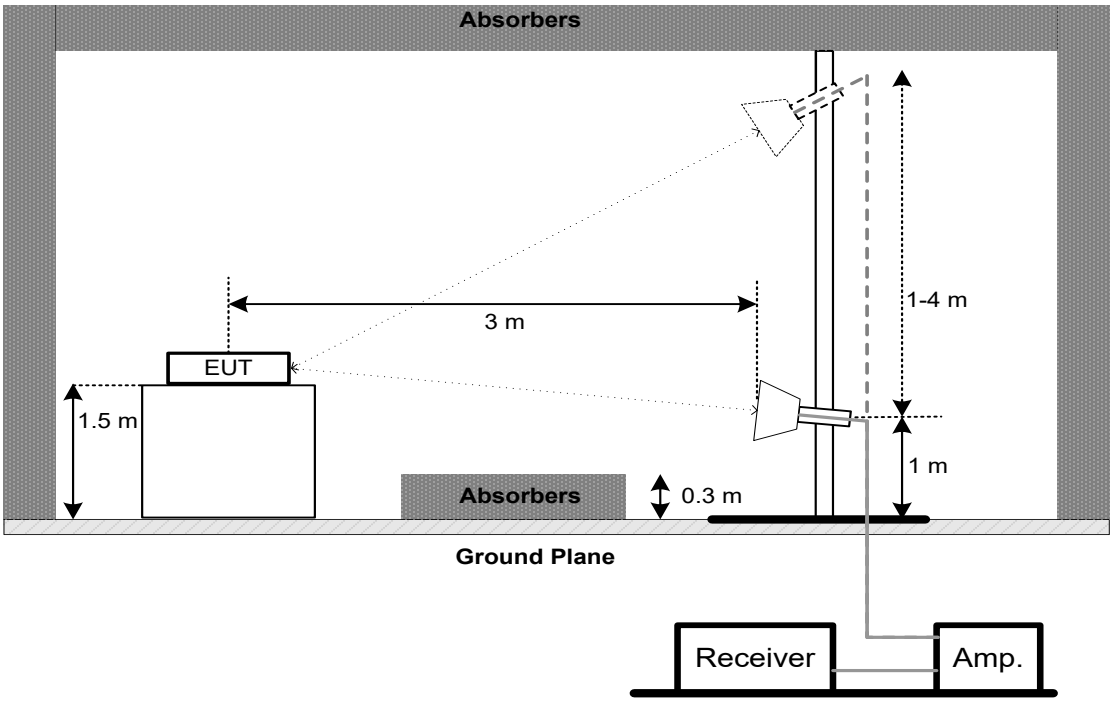
9 kHz to 30 MHz



30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATION CONDITIONS

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

4.6 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B.

Remark:

(1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(2) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

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

5. BANDWIDTH

5.1 LIMIT

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

5.2 TEST PROCEDURE

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

b. Spectrum Setting:

For UNII-1:

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

For UNII-3:

Spectrum Parameter	Setting
Span Frequency	> 6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

c. Measured the spectrum width with power higher than 26 dB / 6 dB below carrier.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER

6.1 LIMIT

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

Note:

a. For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

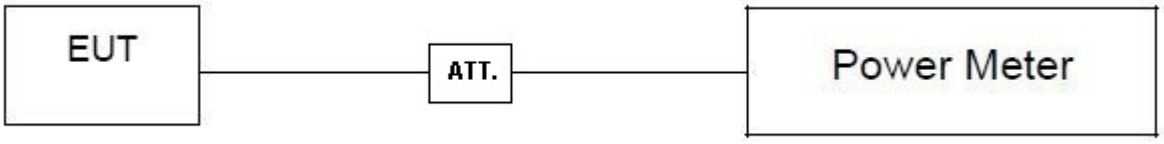
6.2 TEST PROCEDURE

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

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. POWER SPECTRAL DENSITY

7.1 LIMIT

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

7.2 TEST PROCEDURE

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

b. Spectrum Setting:

For UNII-1:

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

For UNII-3:

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

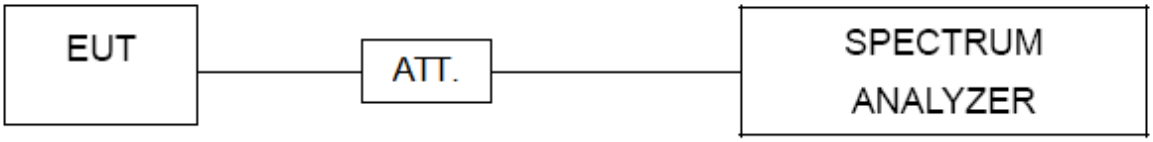
Note:

1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 100kHz and VBW at 300kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add 10 log (500 kHz/100 kHz) to the measured result, i.e. 7 dB.
2. During the test of U-NII 3 PSD, the measurement result with RBW=100kHz has been added 7 dB by compensating offset. For example, the cable loss is 13 dB, and the final offset is 13 + 7 = 20 dB when RBW=100kHz is used.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 20, 2022
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Aug. 23, 2021
3	Test Cable	emci	EMCRG400-BM-NM-10000	170628	Apr. 11, 2022
4	EMI Test Receiver	R&S	ESCI	100082	Mar. 21, 2022
5	50Ω Terminator	SHX	TF2-1G-A	17051602	Mar. 20, 2022
6	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 20, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EMCI	EMCI LPA600	275	Apr. 15, 2022
2	Cable	N/A	EMCRG400-BM-NM-10000	170628	Apr. 11, 2022
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2022
4	Measurement Software	Farad	EZ-EMC Ver.BTL-2ANT-1	N/A	N/A

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	719	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 20, 2022
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2022
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 11, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	9120D	9120D-1786	Mar. 26, 2022
2	Pre-Amplifier	emci	EMC012645SE	980421	May. 10, 2022
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 20, 2022
4	Test Cable	emci	EMC104-SM-SM-7000	170330	Apr. 11, 2022
5	Test Cable	emci	EMC104-SM-SM-1000	170331	Apr. 11, 2022
6	Test Cable	emci	EMC104-SM-NM-3500	170621	Apr. 11, 2022
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2022
9	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3116C	00203919	Mar. 27, 2022
10	Pre-Amplifier	emci	EMC184045SE	980409	Mar. 20, 2022
11	Test Cable	emci	EMC102-KM-KM-800	170654	Apr. 15, 2022
12	Test Cable	emci	Super Reliable-40G-SS11-7000	W0030860001	Apr. 15, 2022

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

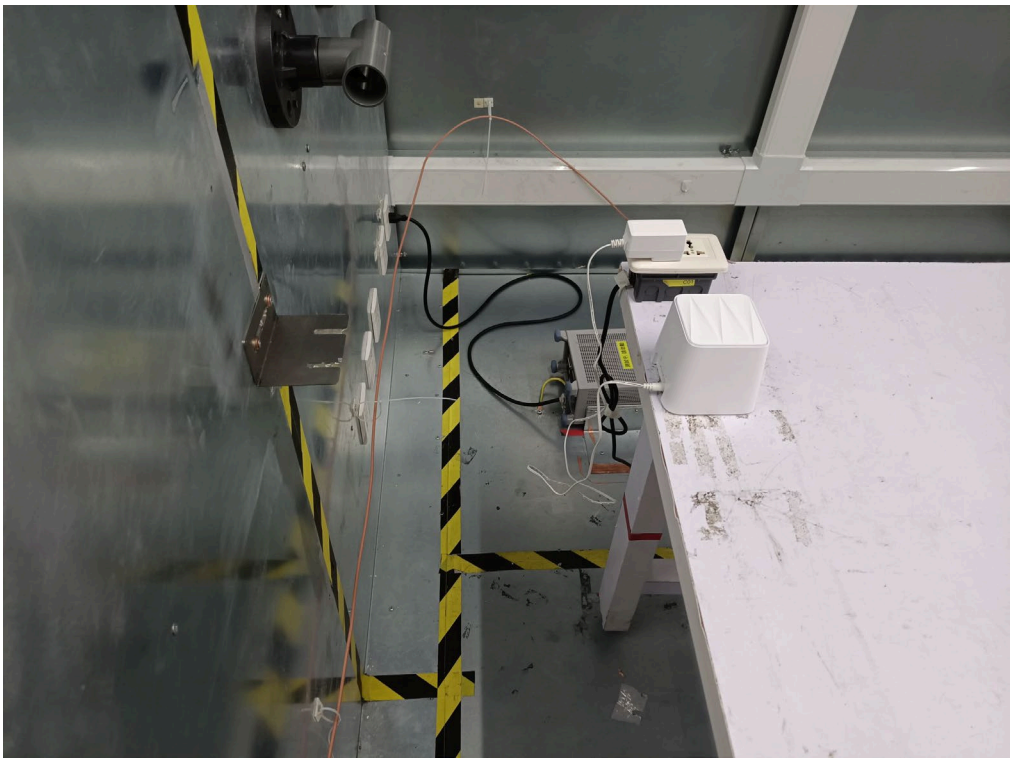
Antenna Conducted Spurious Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 07, 2022
2	Attenuator	Solvang Technology	5.8GHz 0-65dB	STI02-0203-01	Aug. 23, 2021

Remark: “N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

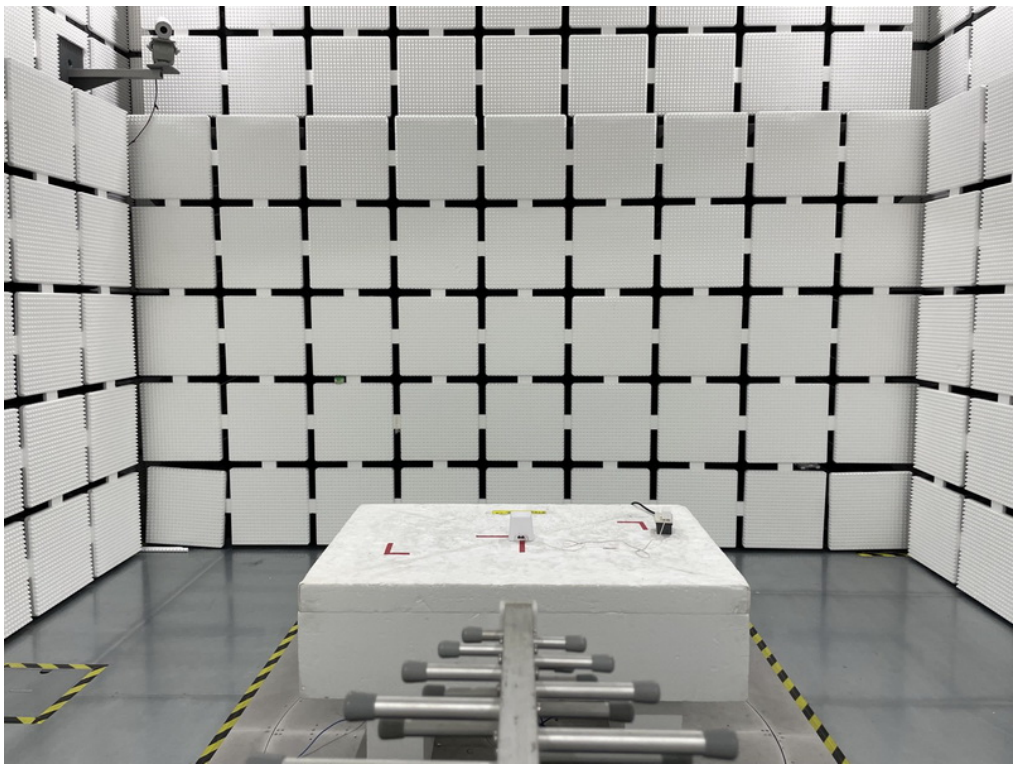
9. EUT TEST PHOTOS

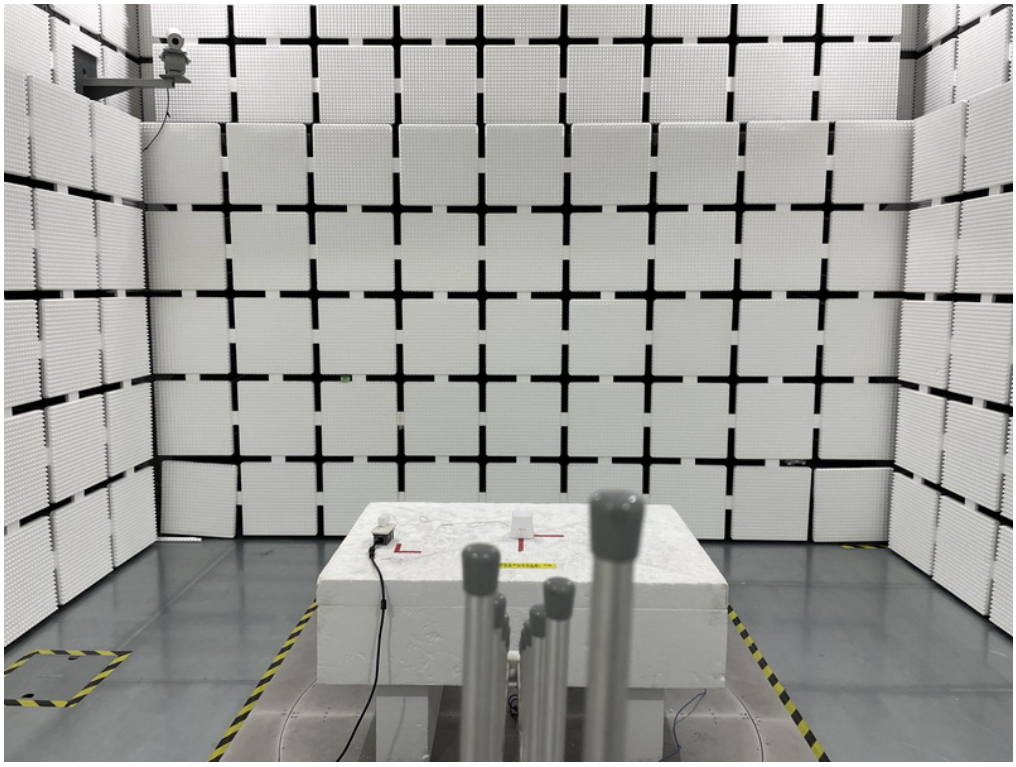
AC Power Line Conducted Emissions Test Photos



Radiated Emissions Test Photos

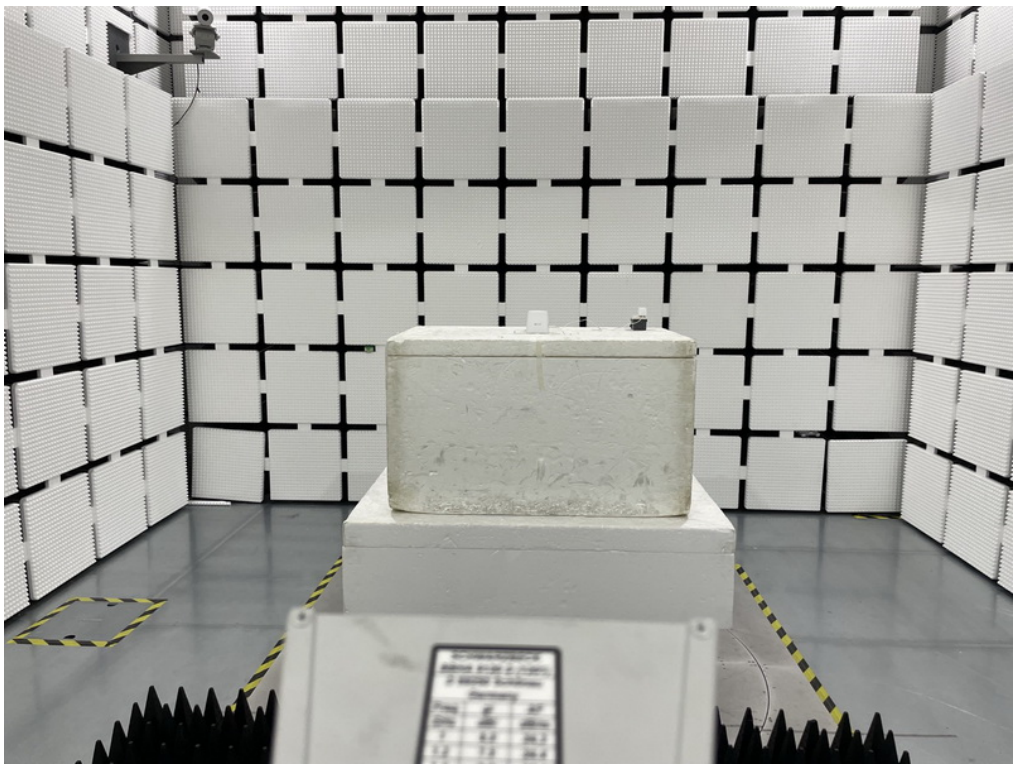
30 MHz to 1 GHz

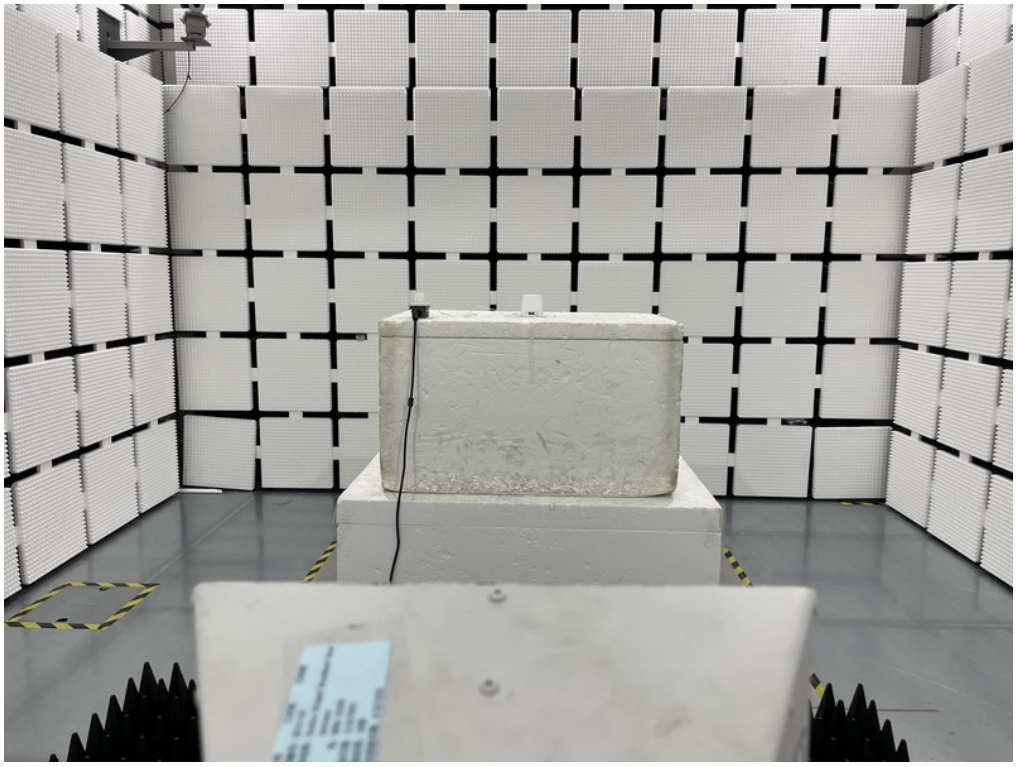




Radiated Emissions Test Photos

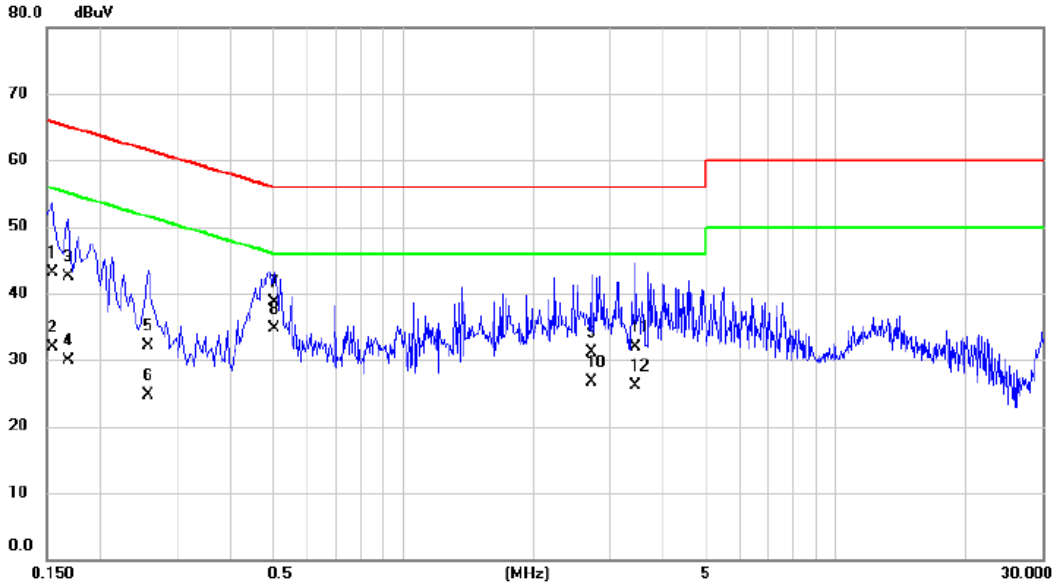
Above 1 GHz





APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

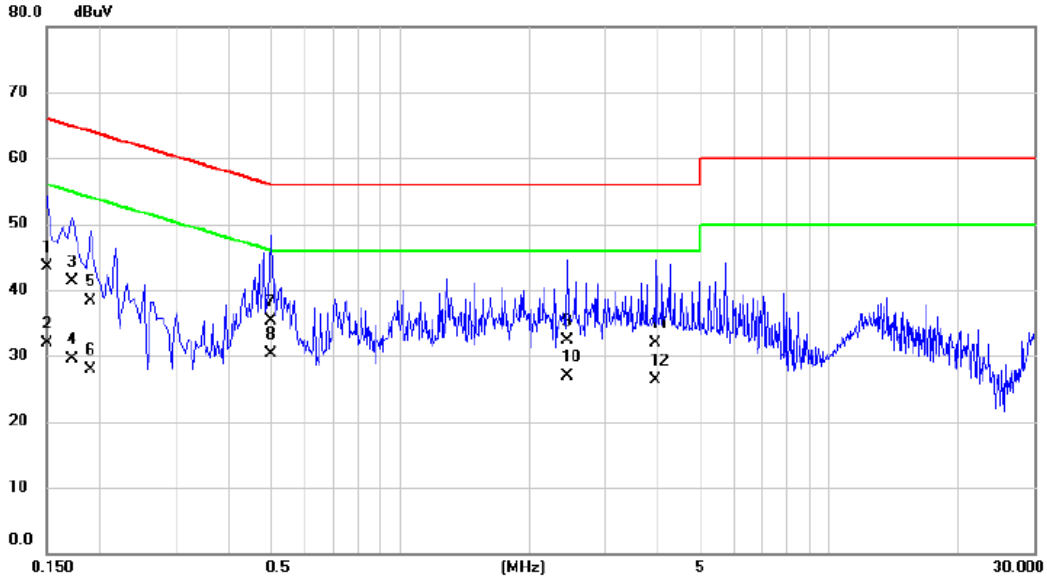
Test Mode	TX AC(VHT20) Mode Channel 165 (UNII-3)	Phase	Line
Test Voltage	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1545	33.40	9.72	43.12	65.75	-22.63	QP	
2		0.1545	22.20	9.72	31.92	55.75	-23.83	AVG	
3		0.1680	32.80	9.73	42.53	65.06	-22.53	QP	
4		0.1680	20.20	9.73	29.93	55.06	-25.13	AVG	
5		0.2580	22.40	9.76	32.16	61.50	-29.34	QP	
6		0.2580	15.00	9.76	24.76	51.50	-26.74	AVG	
7		0.5055	28.90	9.79	38.69	56.00	-17.31	QP	
8	*	0.5055	25.00	9.79	34.79	46.00	-11.21	AVG	
9		2.7330	21.20	9.95	31.15	56.00	-24.85	QP	
10		2.7330	16.80	9.95	26.75	46.00	-19.25	AVG	
11		3.4395	21.90	9.98	31.88	56.00	-24.12	QP	
12		3.4395	16.10	9.98	26.08	46.00	-19.92	AVG	

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

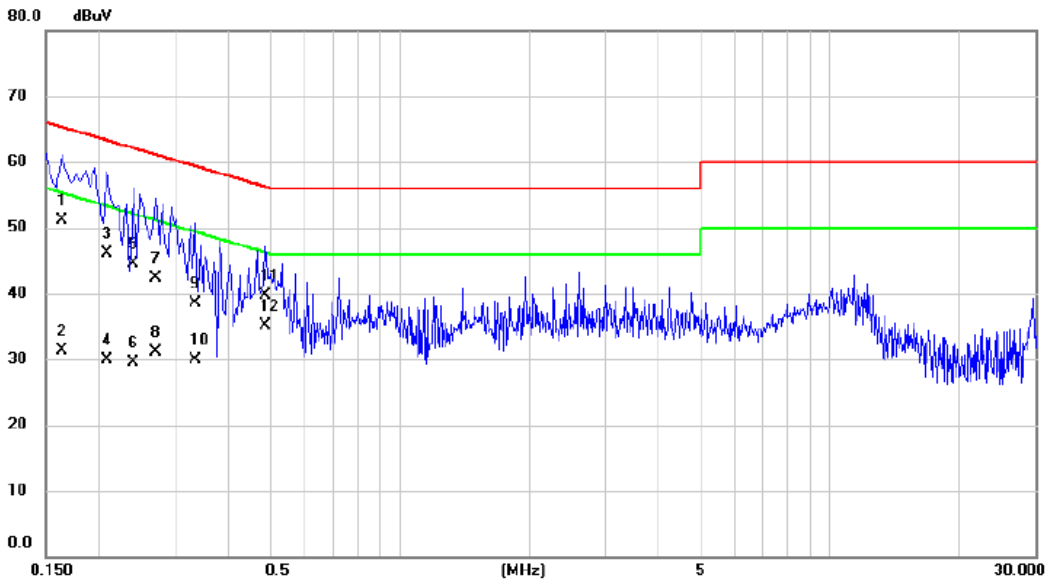
Test Mode	TX AC(VHT20) Mode Channel 165 (UNII-3)	Phase	Neutral
Test Voltage	AC 120V/60Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	33.90	9.68	43.58	66.00	-22.42	QP	
2		0.1500	22.20	9.68	31.88	56.00	-24.12	AVG	
3		0.1725	31.70	9.70	41.40	64.84	-23.44	QP	
4		0.1725	19.90	9.70	29.60	54.84	-25.24	AVG	
5		0.1905	28.50	9.71	38.21	64.01	-25.80	QP	
6		0.1905	18.20	9.71	27.91	54.01	-26.10	AVG	
7		0.5010	25.60	9.77	35.37	56.00	-20.63	QP	
8	*	0.5010	20.60	9.77	30.37	46.00	-15.63	AVG	
9		2.4495	22.40	9.91	32.31	56.00	-23.69	QP	
10		2.4495	17.00	9.91	26.91	46.00	-19.09	AVG	
11		3.9435	22.00	10.00	32.00	56.00	-24.00	QP	
12		3.9435	16.30	10.00	26.30	46.00	-19.70	AVG	

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

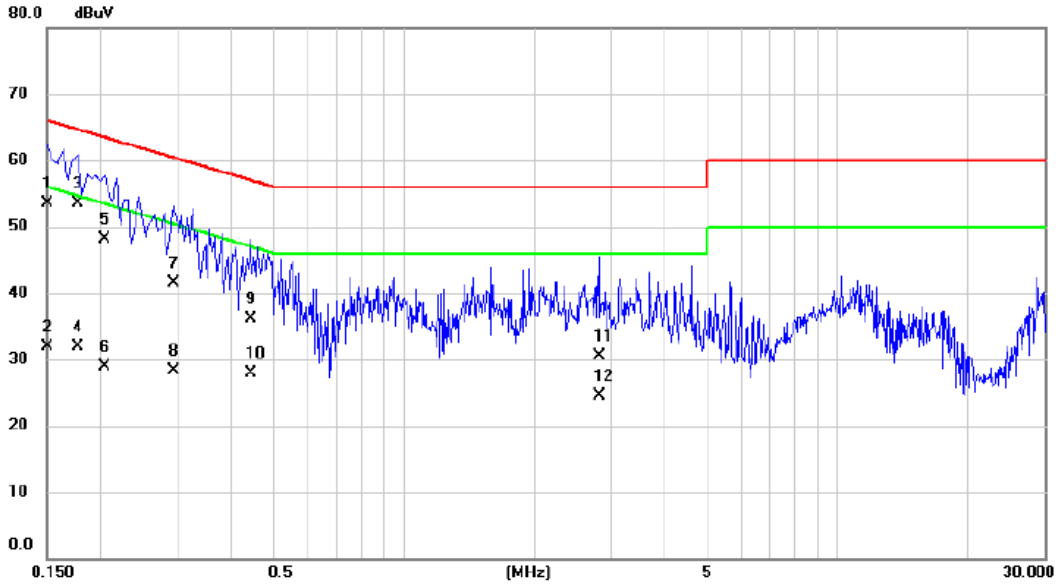
Test Mode	TX AC(VHT20) Mode Channel 165 (UNII-3)	Phase	Line
Test Voltage	AC 240V/50Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1635	41.30	9.73	51.03	65.28	-14.25	QP	
2		0.1635	21.50	9.73	31.23	55.28	-24.05	AVG	
3		0.2085	36.40	9.74	46.14	63.26	-17.12	QP	
4		0.2085	20.10	9.74	29.84	53.26	-23.42	AVG	
5		0.2400	34.70	9.74	44.44	62.10	-17.66	QP	
6		0.2400	19.70	9.74	29.44	52.10	-22.66	AVG	
7		0.2714	32.50	9.76	42.26	61.07	-18.81	QP	
8		0.2714	21.30	9.76	31.06	51.07	-20.01	AVG	
9		0.3345	28.80	9.76	38.56	59.34	-20.78	QP	
10		0.3345	20.10	9.76	29.86	49.34	-19.48	AVG	
11		0.4875	29.90	9.79	39.69	56.21	-16.52	QP	
12	*	0.4875	25.30	9.79	35.09	46.21	-11.12	AVG	

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

Test Mode	TX AC(VHT20) Mode Channel 165 (UNII-3)	Phase	Neutral
Test Voltage	AC 240V/50Hz		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	43.90	9.68	53.58	66.00	-12.42	QP	
2		0.1500	22.20	9.68	31.88	56.00	-24.12	AVG	
3	*	0.1770	43.90	9.70	53.60	64.63	-11.03	QP	
4		0.1770	22.20	9.70	31.90	54.63	-22.73	AVG	
5		0.2040	38.30	9.71	48.01	63.45	-15.44	QP	
6		0.2040	19.10	9.71	28.81	53.45	-24.64	AVG	
7		0.2940	31.80	9.73	41.53	60.41	-18.88	QP	
8		0.2940	18.60	9.73	28.33	50.41	-22.08	AVG	
9		0.4425	26.40	9.76	36.16	57.01	-20.85	QP	
10		0.4425	18.10	9.76	27.86	47.01	-19.15	AVG	
11		2.8184	20.60	9.93	30.53	56.00	-25.47	QP	
12		2.8184	14.60	9.93	24.53	46.00	-21.47	AVG	

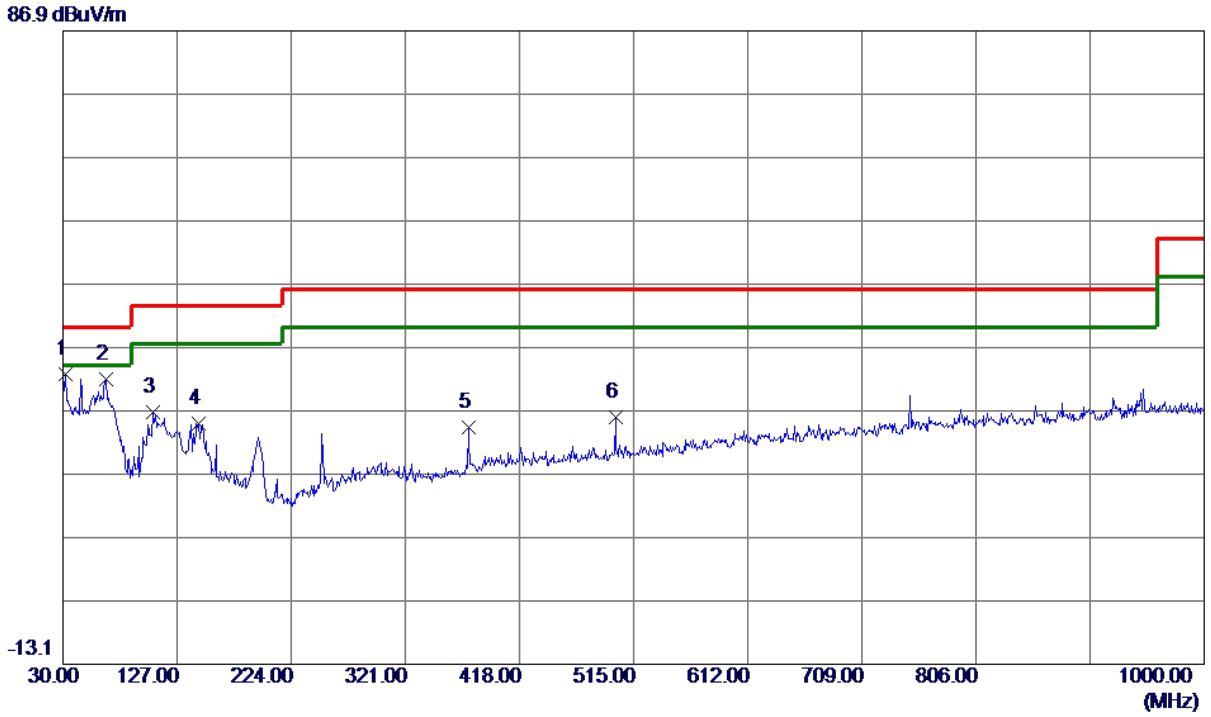
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.
(3) The test result has included the cable loss.

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Note: The measured value have enough margin over 20dB than the limit, therefore they are not reported.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

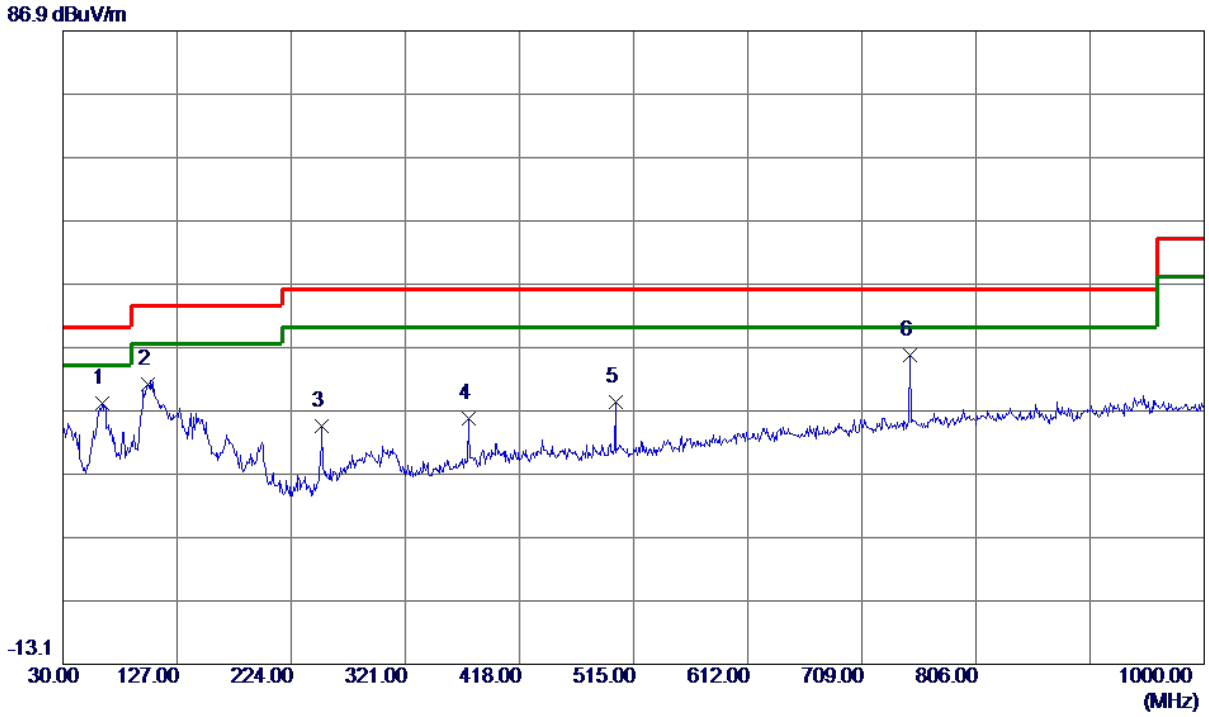
Test Mode	TX AC(VHT20) Mode Channel 165 (UNII-3)	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	31.9400	51.02	-18.34	32.68	40.00	-7.32	Peak	
2	66.3750	49.89	-17.99	31.90	40.00	-8.10	Peak	
3	106.6300	46.88	-20.21	26.67	43.50	-16.83	Peak	
4	145.4299	41.36	-16.51	24.85	43.50	-18.65	Peak	
5	374.8350	38.25	-13.90	24.35	46.00	-21.65	Peak	
6	499.9650	37.07	-11.21	25.86	46.00	-20.14	Peak	

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

Test Mode	TX AC(VHT20) Mode Channel 165 (UNII-3)	Polarization	Horizontal

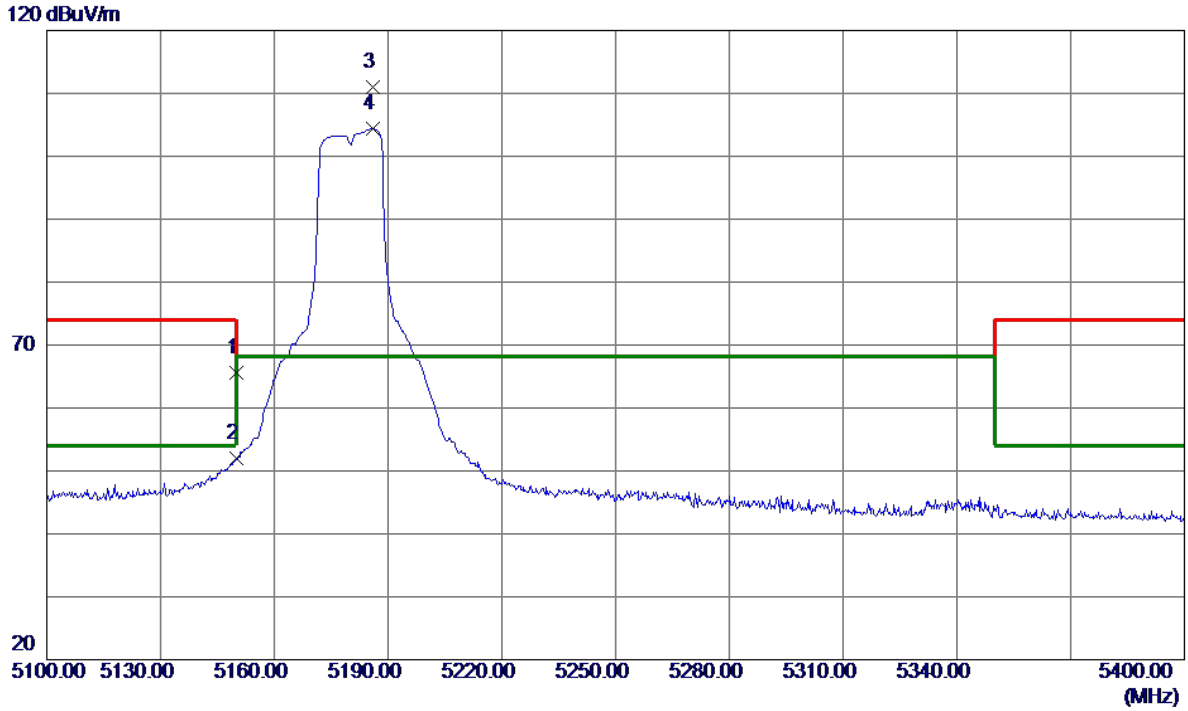


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	62.9800	45.63	-17.53	28.10	40.00	-11.90	Peak	
2	101.7800	51.99	-20.91	31.08	43.50	-12.42	Peak	
3	250.1900	41.76	-17.35	24.41	46.00	-21.59	Peak	
4	374.8350	39.63	-13.90	25.73	46.00	-20.27	Peak	
5	499.9650	39.42	-11.21	28.21	46.00	-17.79	Peak	
6 *	750.2250	42.92	-7.23	35.69	46.00	-10.31	Peak	

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

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

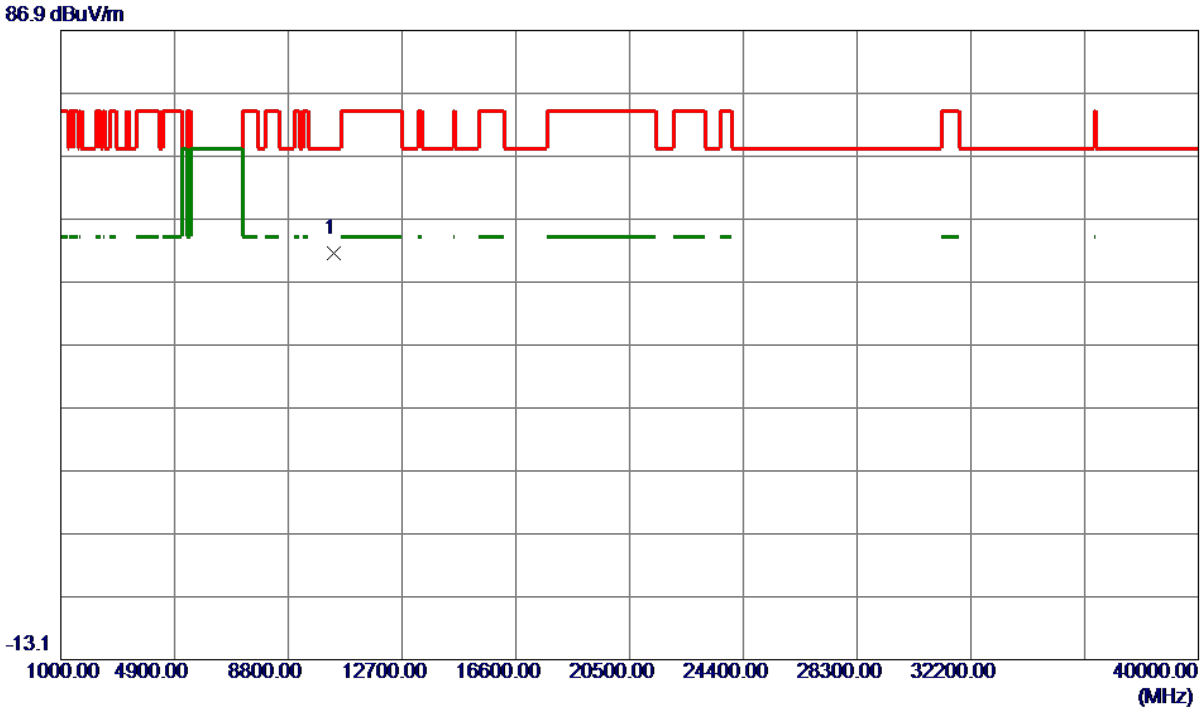
Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	27.71	37.88	65.59	74.00	-8.41	Peak	
2	5150.0000	14.13	37.88	52.01	54.00	-1.99	AVG	
3 *	5185.9500	73.37	37.73	111.10	68.20	42.90	Peak	No limit
4	5185.9500	66.66	37.73	104.39	68.20	36.19	AVG	No limit

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

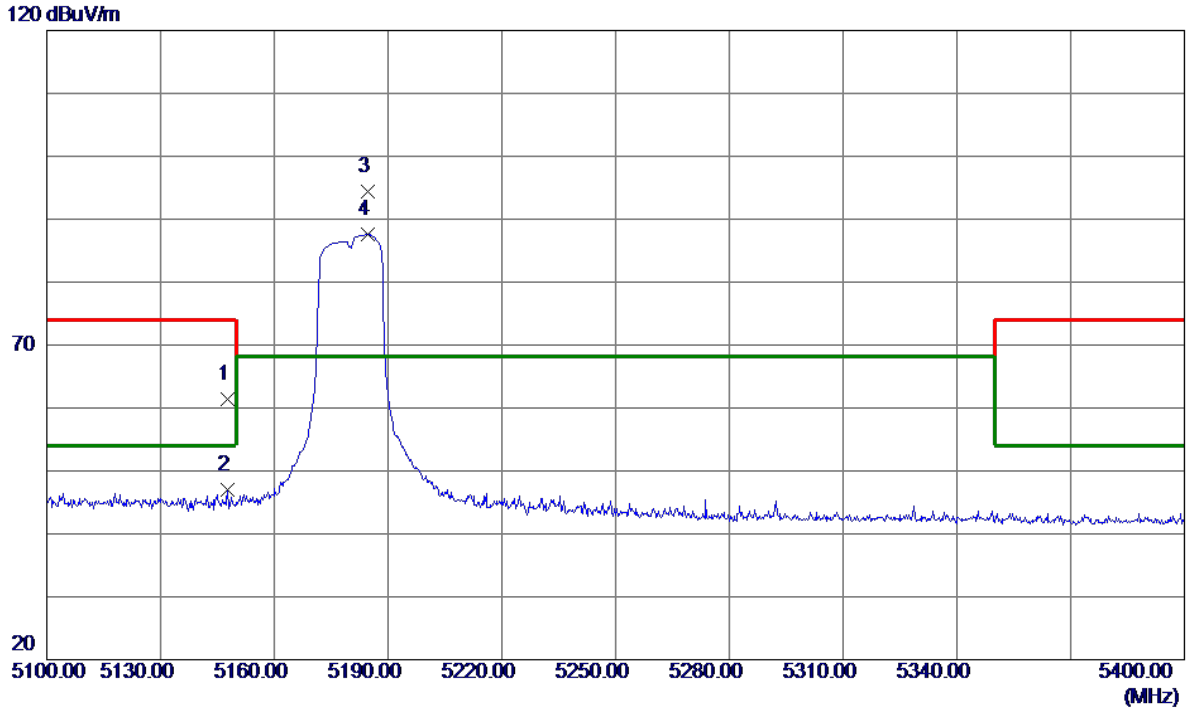
Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360.0000	48.93	2.56	51.49	68.20	-16.71	Peak	

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

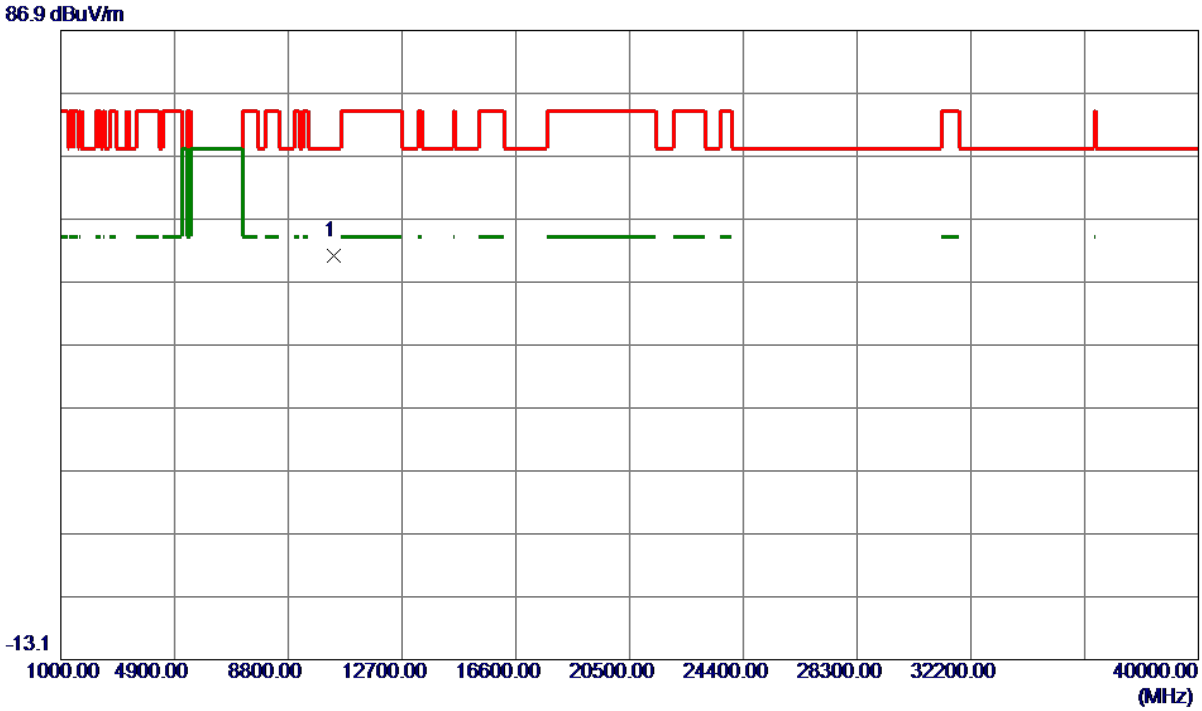
Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5147.7000	23.60	37.88	61.48	74.00	-12.52	Peak	
2	5147.7000	9.03	37.88	46.91	54.00	-7.09	AVG	
3 *	5184.6000	56.69	37.74	94.43	68.20	26.23	Peak	No limit
4	5184.6000	49.85	37.74	87.59	68.20	19.39	AVG	No limit

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

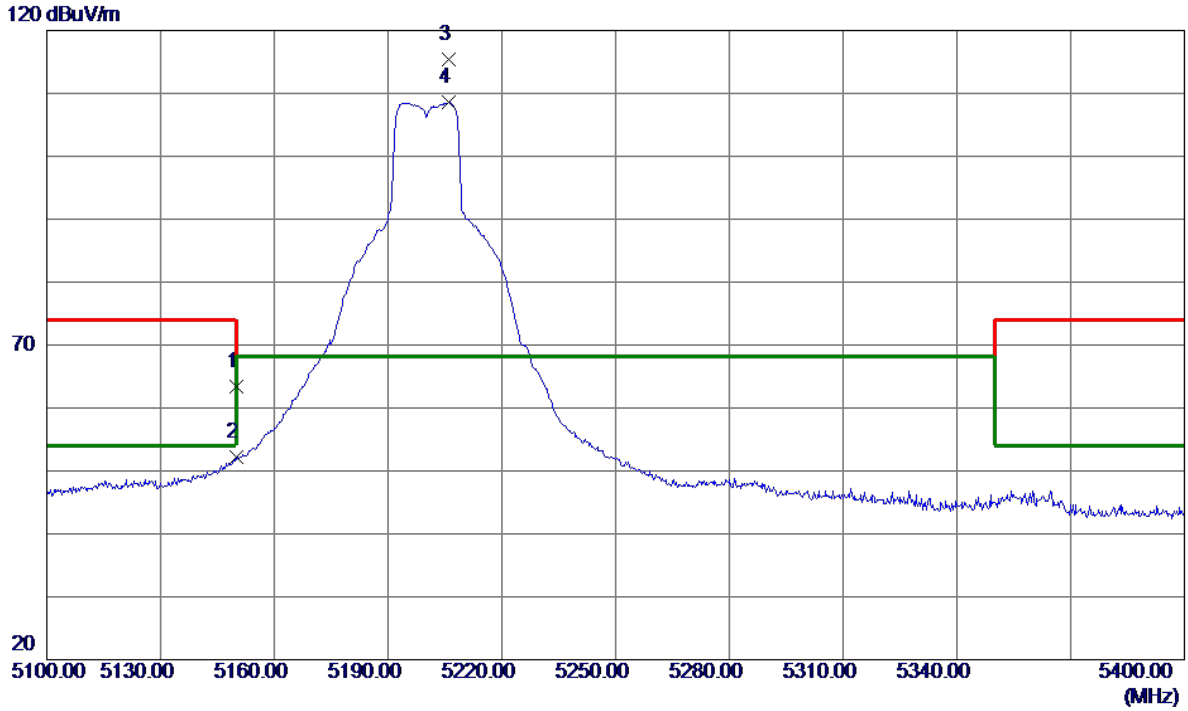
Test Mode	UNII-1_TX A Mode 5180 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360.0000	48.46	2.56	51.02	68.20	-17.18	Peak	

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

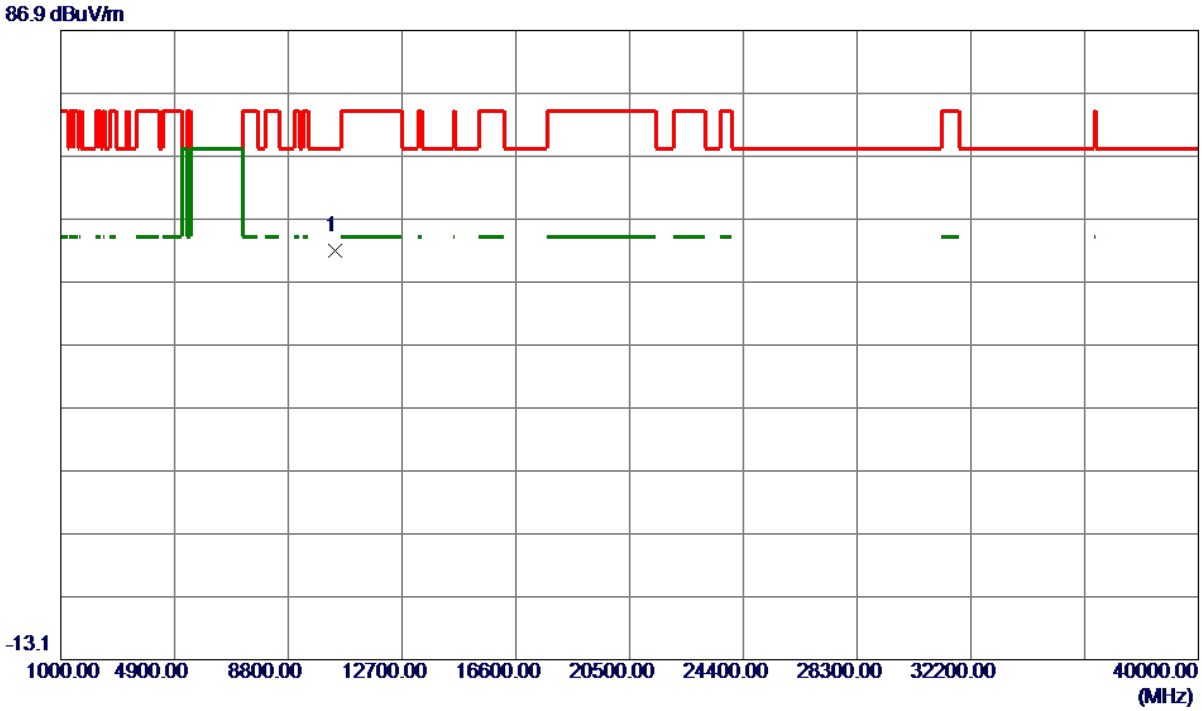
Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	25.55	37.88	63.43	74.00	-10.57	Peak	
2	5150.0000	14.36	37.88	52.24	54.00	-1.76	AVG	
3 *	5206.0500	77.73	37.67	115.40	68.20	47.20	Peak	No limit
4	5206.0500	70.86	37.67	108.53	68.20	40.33	AVG	No limit

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

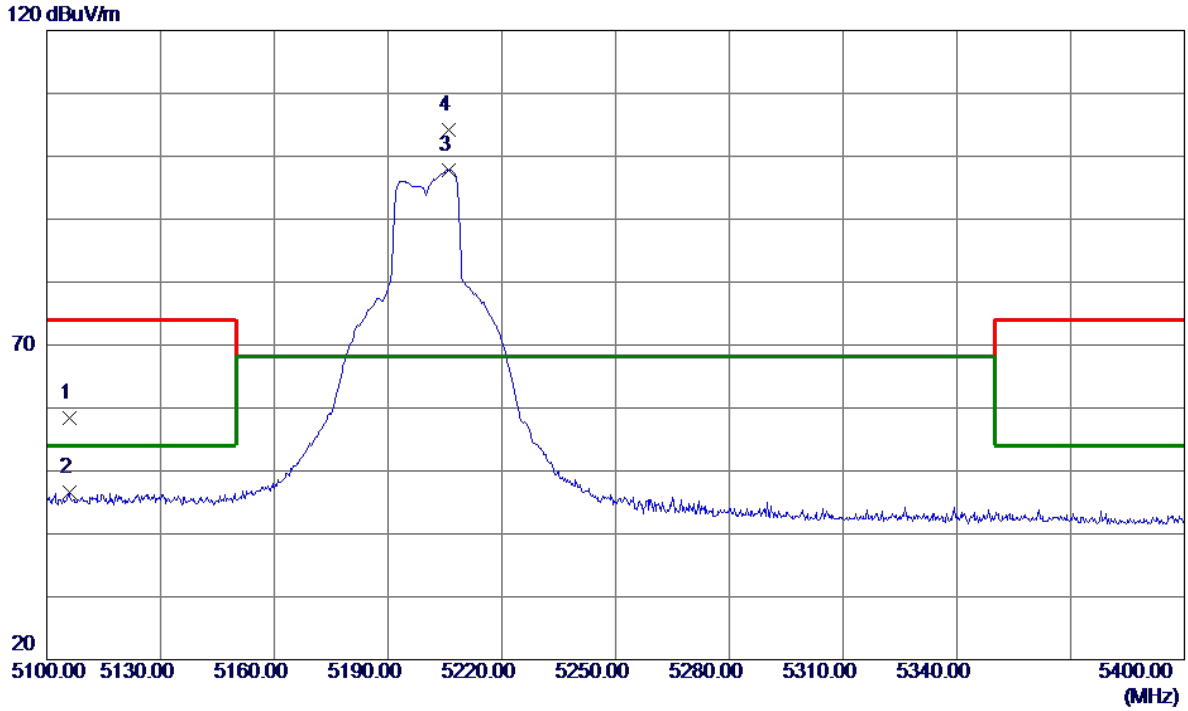
Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400.0000	49.10	2.73	51.83	68.20	-16.37	Peak	

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

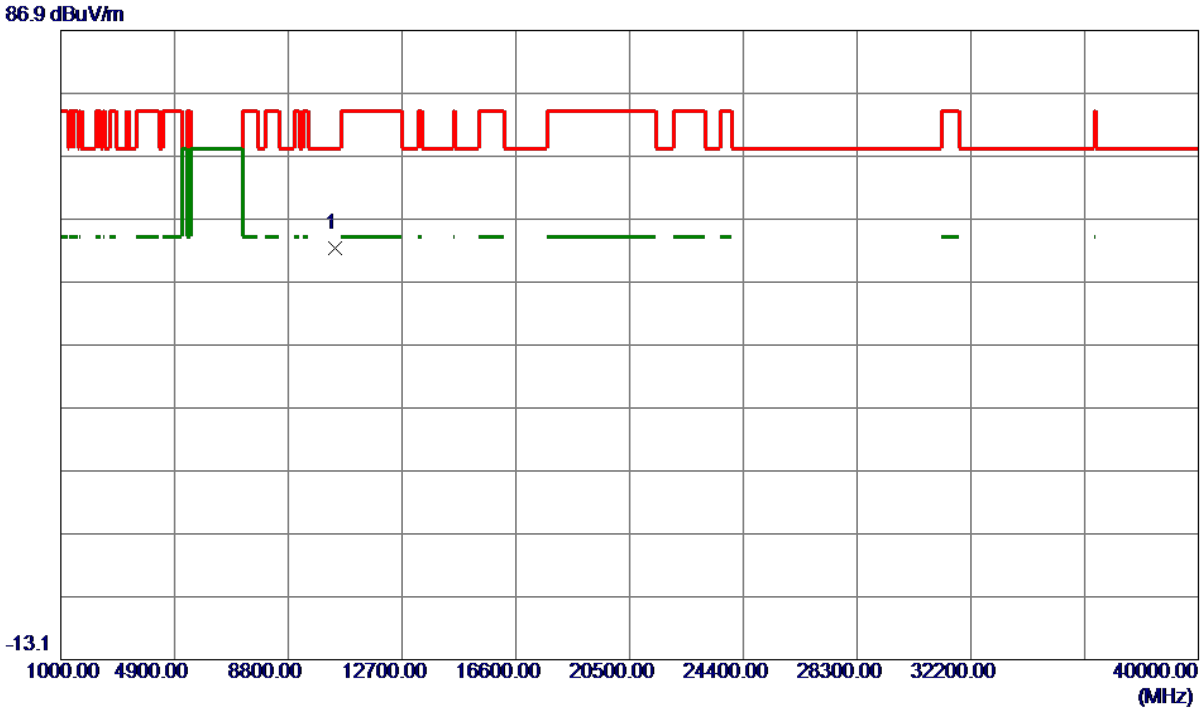
Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5105.8500	20.26	38.05	58.31	74.00	-15.69	Peak	
2	5105.8500	8.60	38.05	46.65	54.00	-7.35	AVG	
3	5206.0500	60.18	37.67	97.85	68.20	29.65	Peak	No limit
4 *	5206.0500	66.63	37.67	104.30	68.20	36.10	AVG	No limit

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

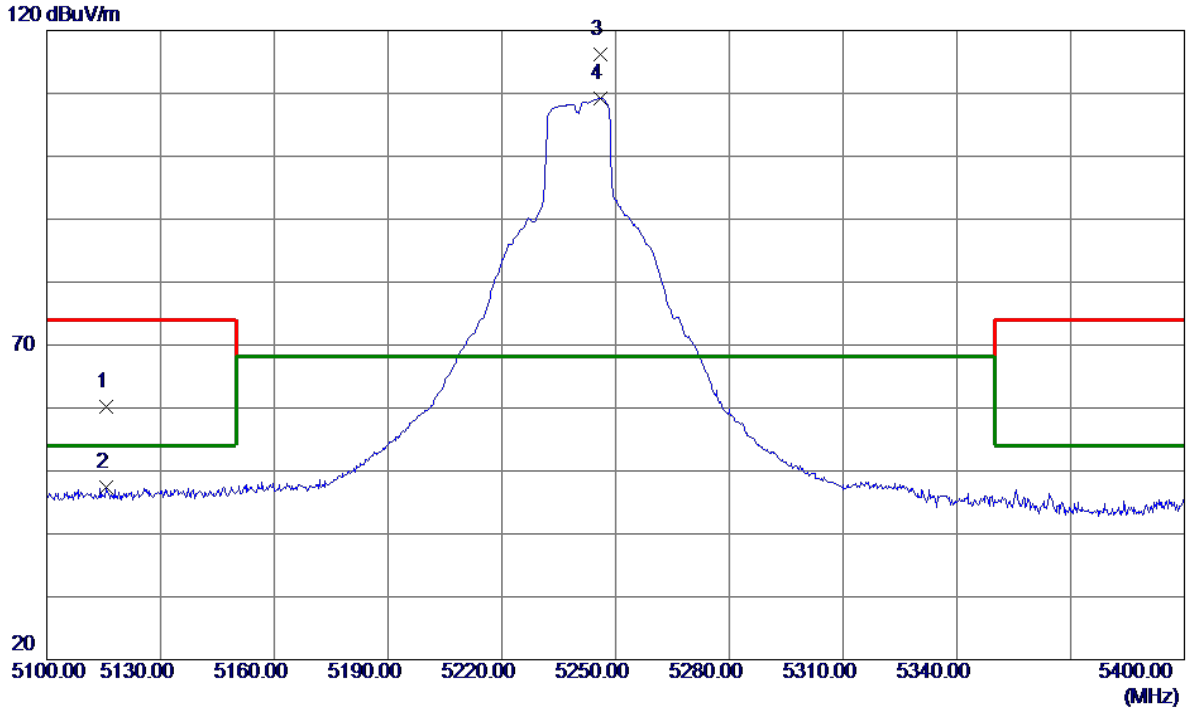
Test Mode	UNII-1_TX A Mode 5200 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400.0000	49.58	2.73	52.31	68.20	-15.89	Peak	

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

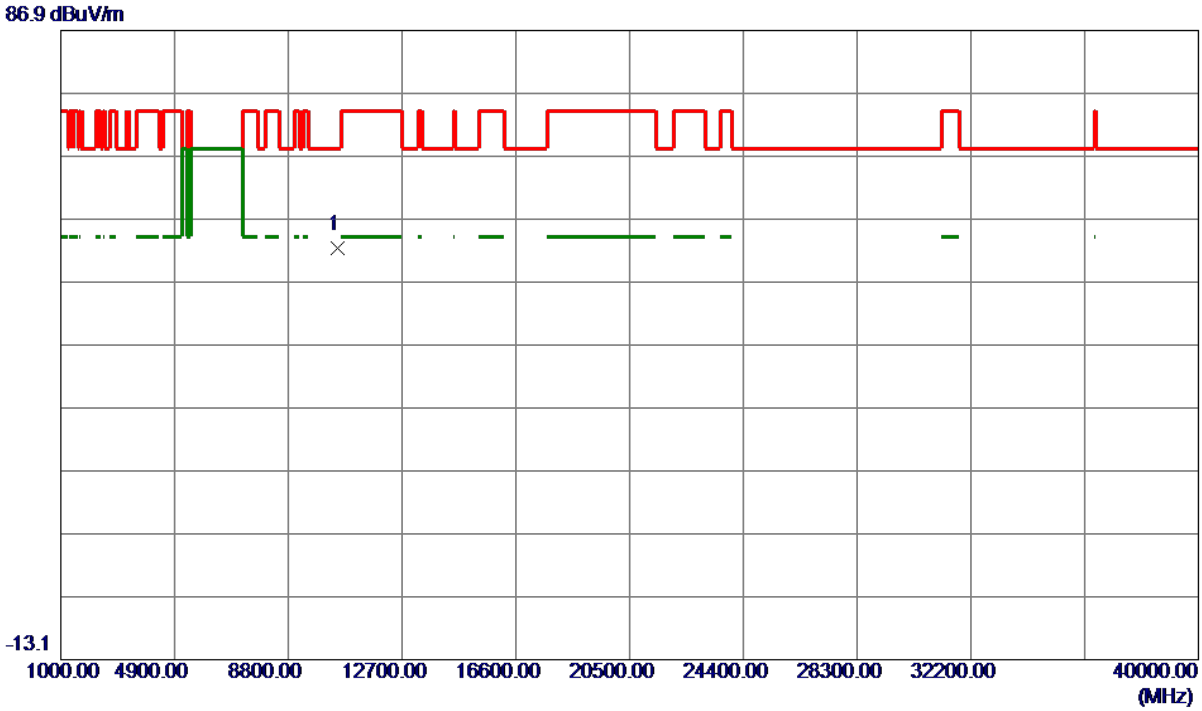
Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5115.6000	22.17	38.01	60.18	74.00	-13.82	Peak	
2	5115.6000	9.48	38.01	47.49	54.00	-6.51	AVG	
3 *	5246.1000	78.65	37.61	116.26	68.20	48.06	Peak	No limit
4	5246.1000	71.63	37.61	109.24	68.20	41.04	AVG	No limit

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

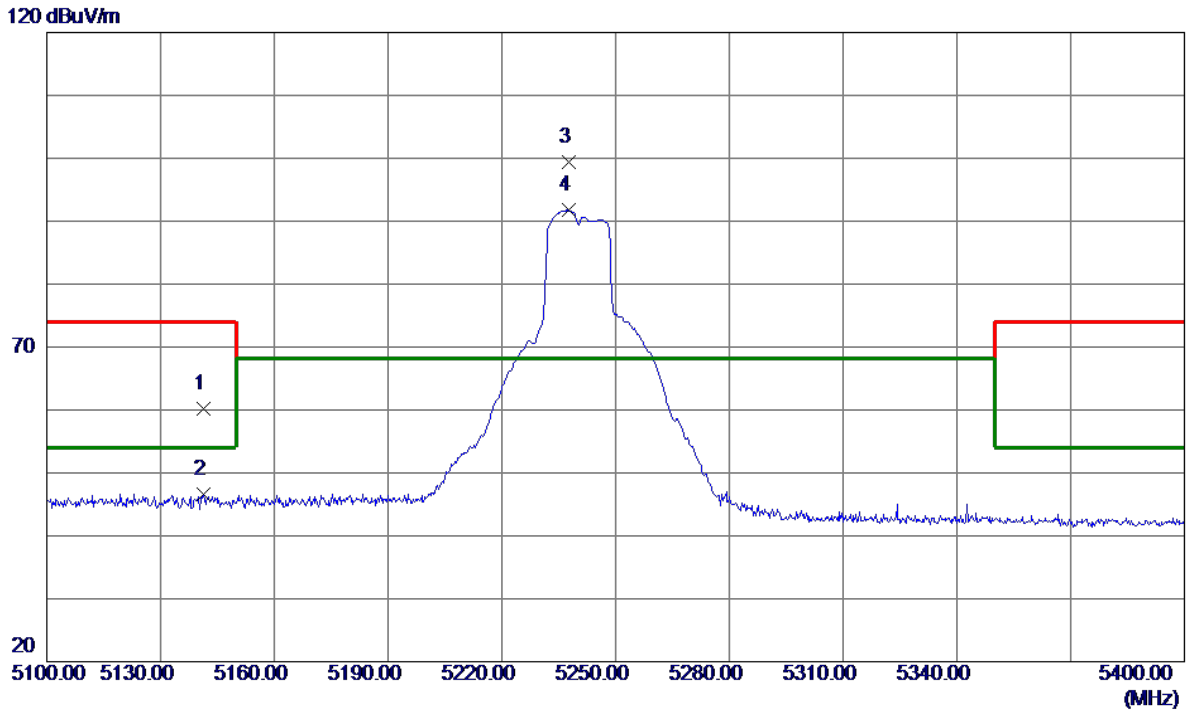
Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480.0000	49.19	3.01	52.20	68.20	-16.00	Peak	

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

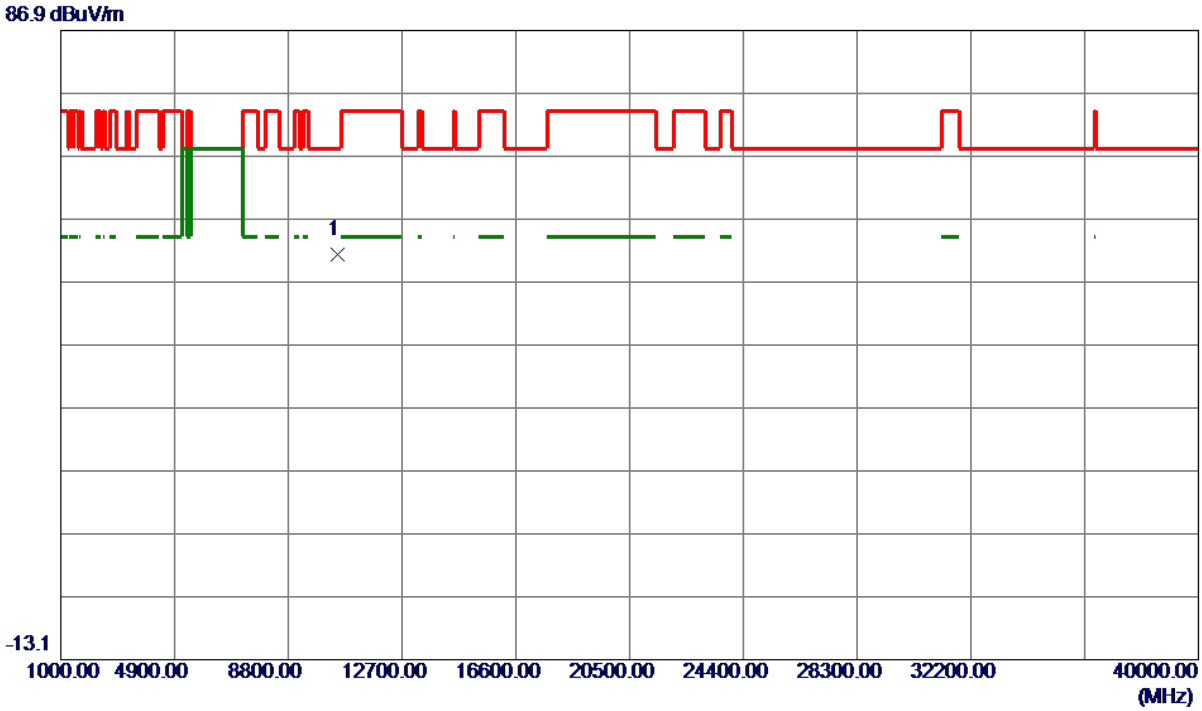
Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5141.4000	22.25	37.91	60.16	74.00	-13.84	Peak	
2	5141.4000	8.69	37.91	46.60	54.00	-7.40	AVG	
3 *	5237.7000	61.71	37.63	99.34	68.20	31.14	Peak	No limit
4	5237.7000	54.08	37.63	91.71	68.20	23.51	AVG	No limit

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

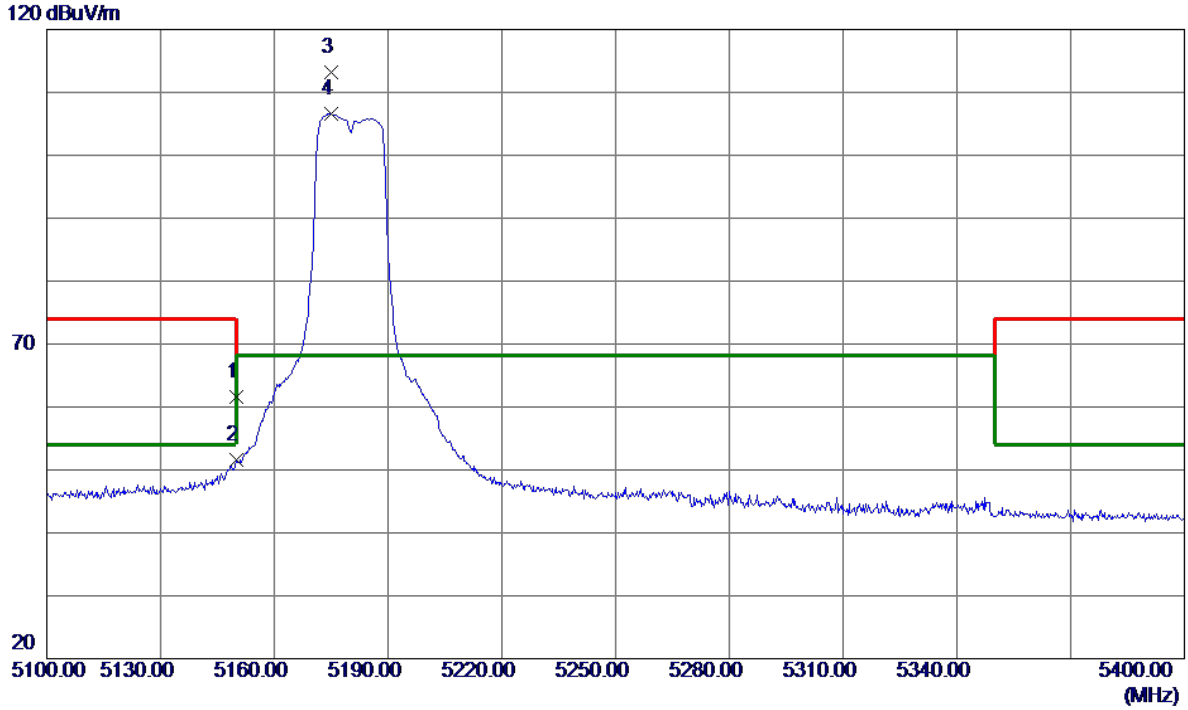
Test Mode	UNII-1_TX A Mode 5240 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480.0000	48.20	3.01	51.21	68.20	-16.99	Peak	

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

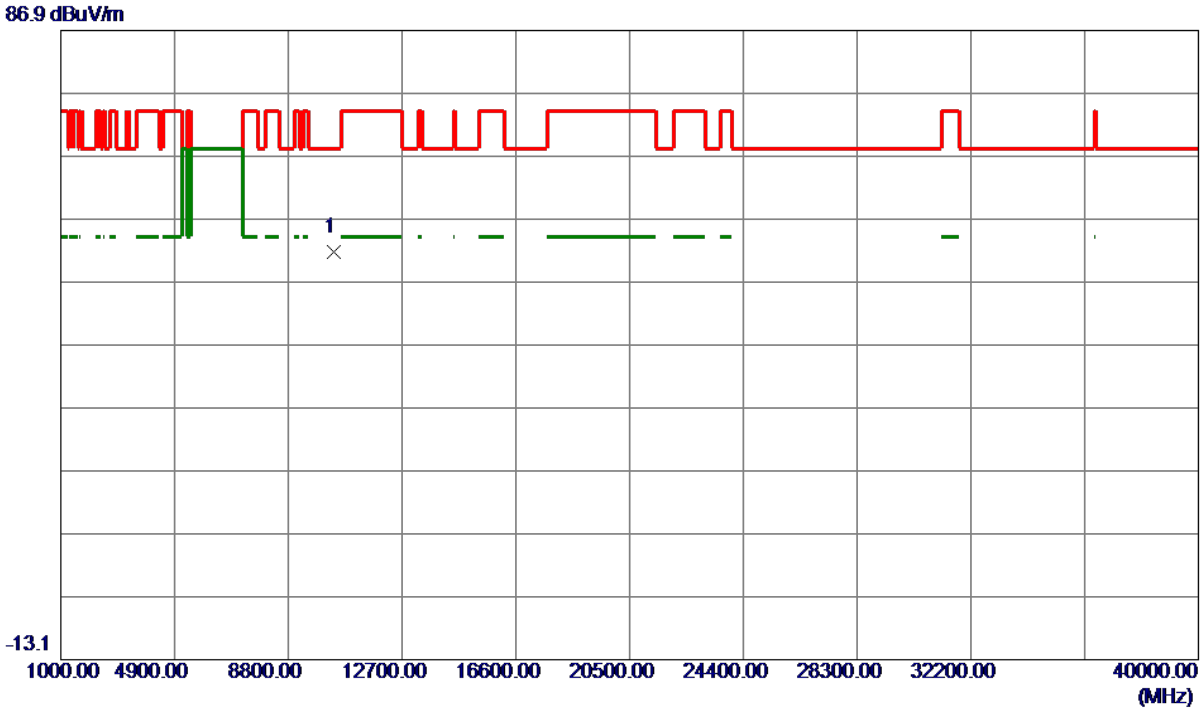
Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5149.9500	23.75	37.88	61.63	74.00	-12.37	Peak	
2	5149.9500	13.66	37.88	51.54	54.00	-2.46	AVG	
3 *	5174.8500	75.50	37.78	113.28	68.20	45.08	Peak	No limit
4	5174.8500	68.79	37.78	106.57	68.20	38.37	AVG	No limit

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

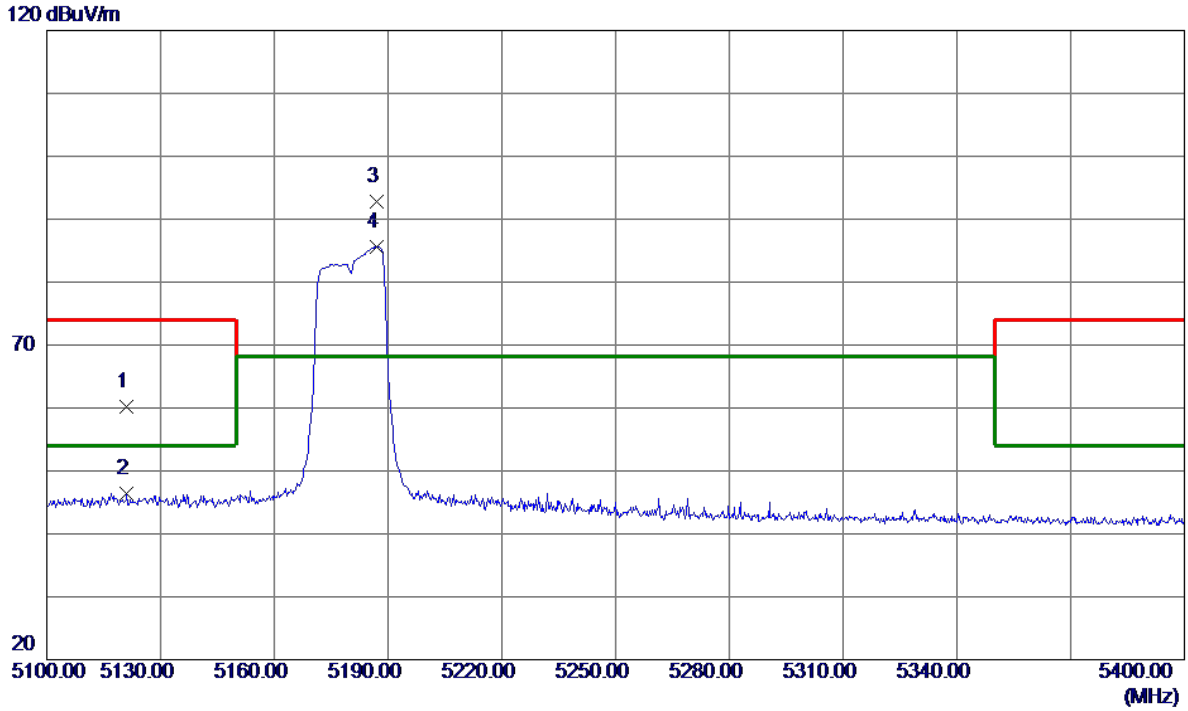
Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360.0000	49.22	2.56	51.78	68.20	-16.42	Peak	

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

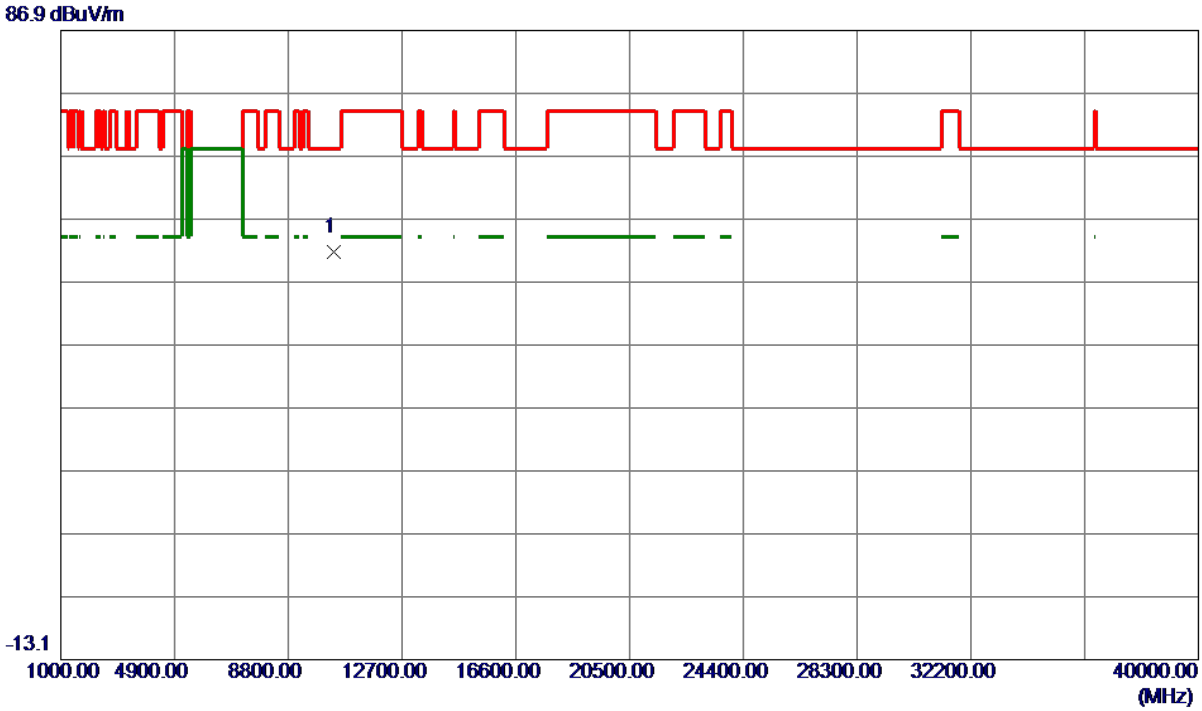
Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5121.0000	22.30	37.99	60.29	74.00	-13.71	Peak	
2	5121.0000	8.50	37.99	46.49	54.00	-7.51	AVG	
3 *	5186.8500	55.16	37.73	92.89	68.20	24.69	Peak	No limit
4	5186.8500	47.94	37.73	85.67	68.20	17.47	AVG	No limit

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

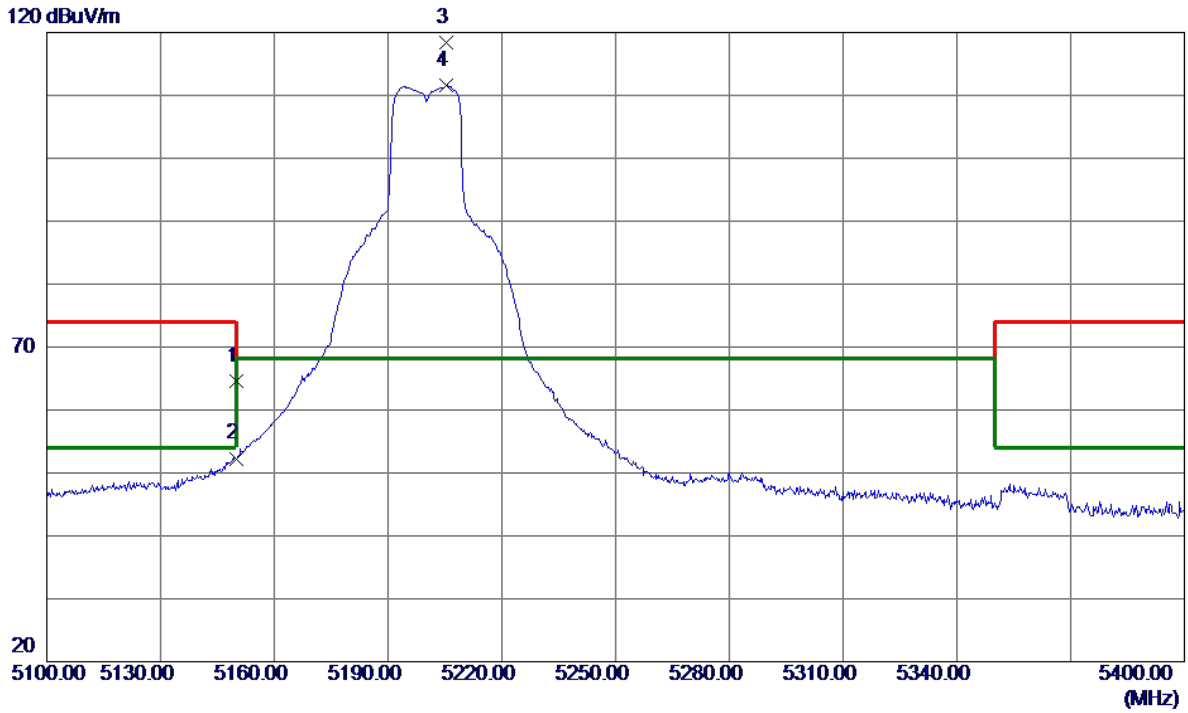
Test Mode	UNII-1_TX AC(VHT20) Mode 5180 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360.0000	49.15	2.56	51.71	68.20	-16.49	Peak	

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

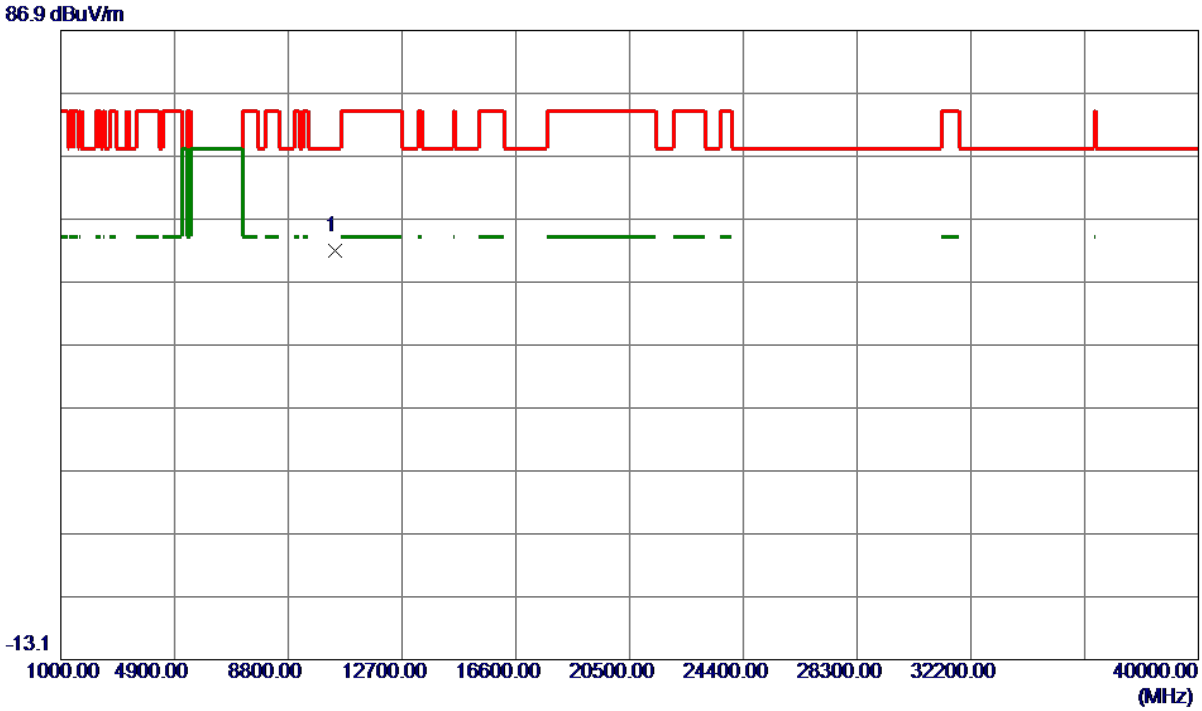
Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	26.81	37.88	64.69	74.00	-9.31	Peak	
2	5150.0000	14.42	37.88	52.30	54.00	-1.70	AVG	
3 *	5205.4500	80.76	37.67	118.43	68.20	50.23	Peak	No limit
4	5205.4500	73.89	37.67	111.56	68.20	43.36	AVG	No limit

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

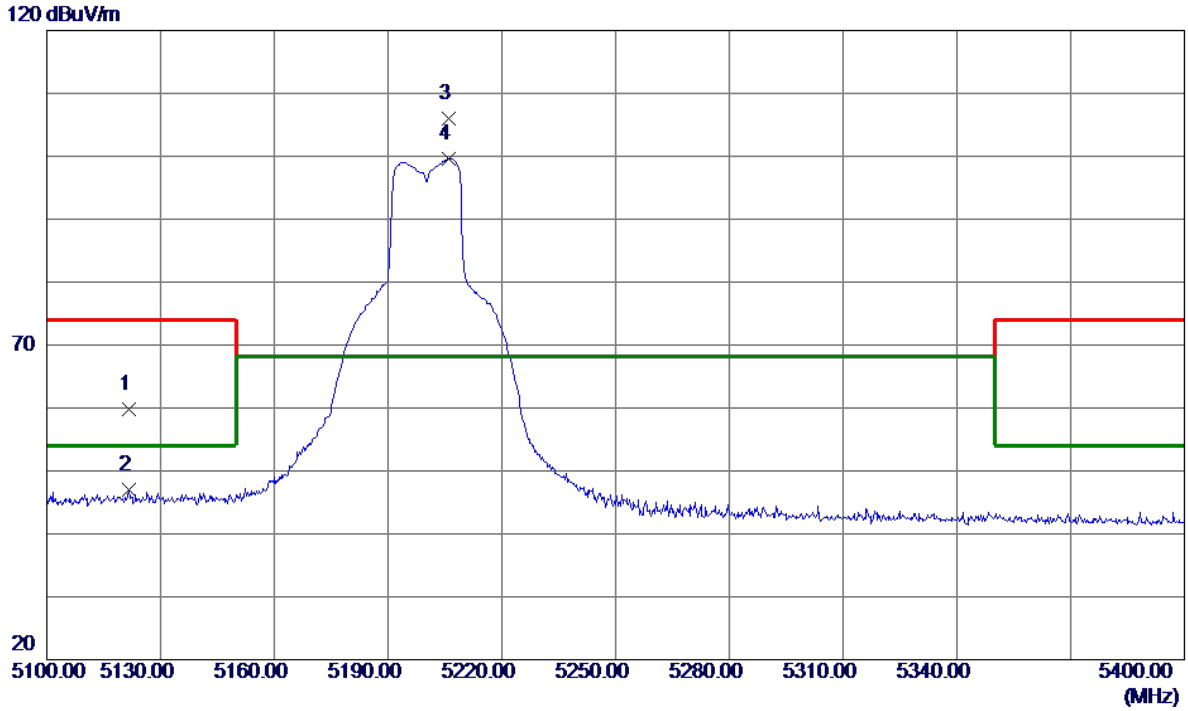
Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400.0000	49.18	2.73	51.91	68.20	-16.29	Peak	

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

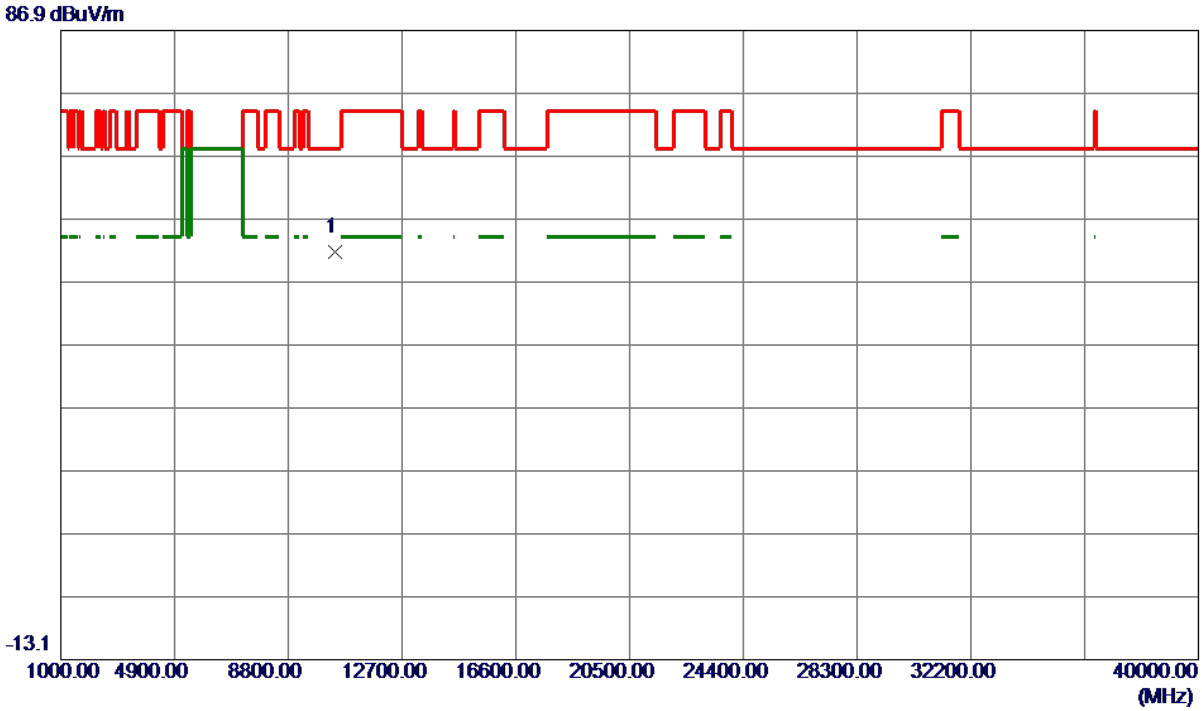
Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5121.6000	21.76	37.99	59.75	74.00	-14.25	Peak	
2	5121.6000	8.97	37.99	46.96	54.00	-7.04	AVG	
3 *	5206.0500	68.37	37.67	106.04	68.20	37.84	Peak	No limit
4	5206.0500	62.01	37.67	99.68	68.20	31.48	AVG	No limit

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

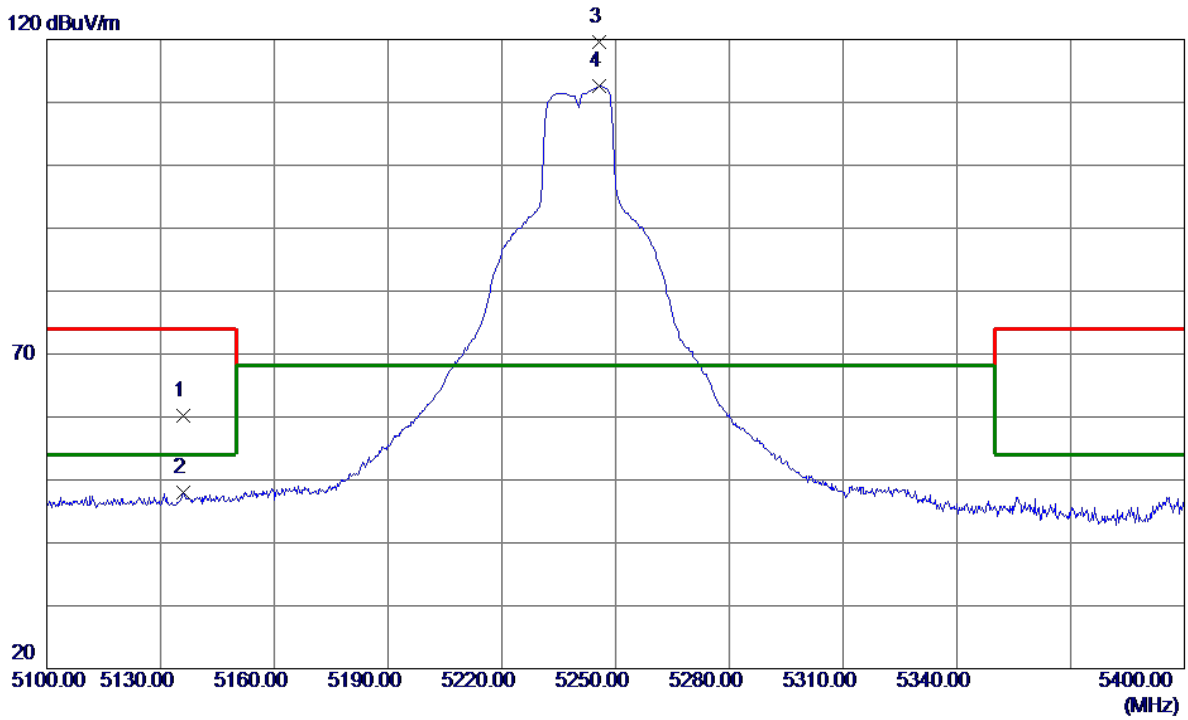
Test Mode	UNII-1_TX AC(VHT20) Mode 5200 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400.0000	49.02	2.73	51.75	68.20	-16.45	Peak	

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

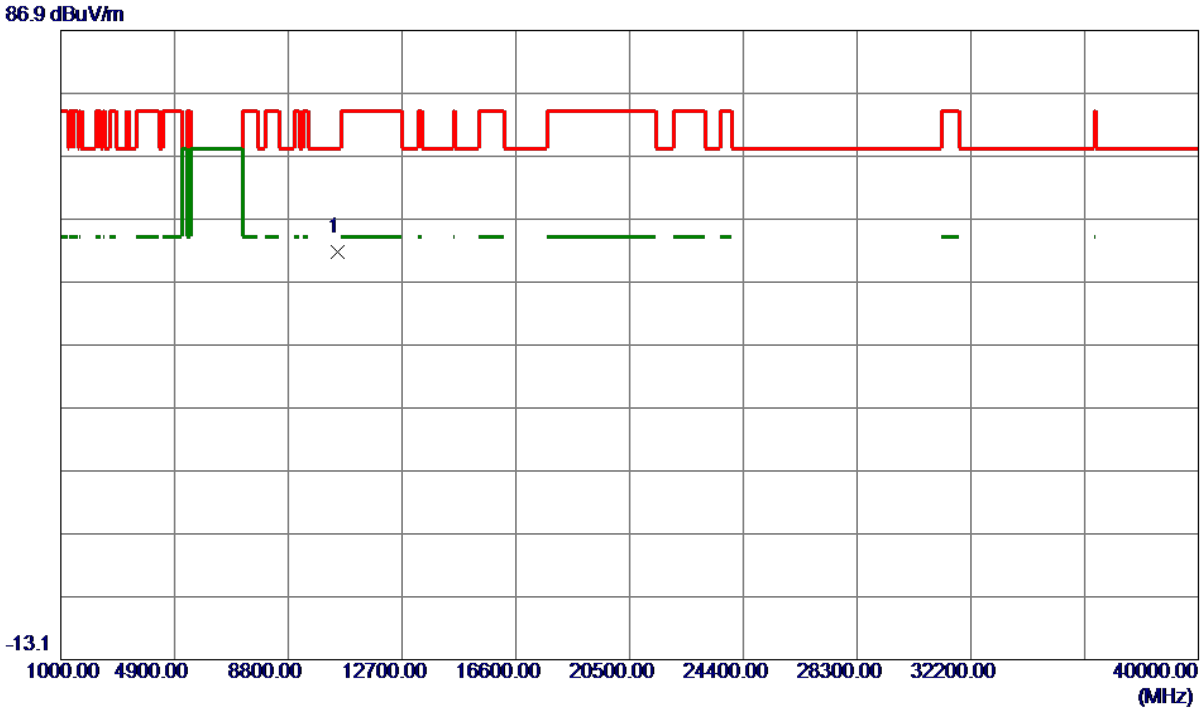
Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5136.0000	22.22	37.93	60.15	74.00	-13.85	Peak	
2	5136.0000	9.98	37.93	47.91	54.00	-6.09	AVG	
3 *	5245.6500	81.94	37.61	119.55	68.20	51.35	Peak	No limit
4	5245.6500	74.98	37.61	112.59	68.20	44.39	AVG	No limit

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

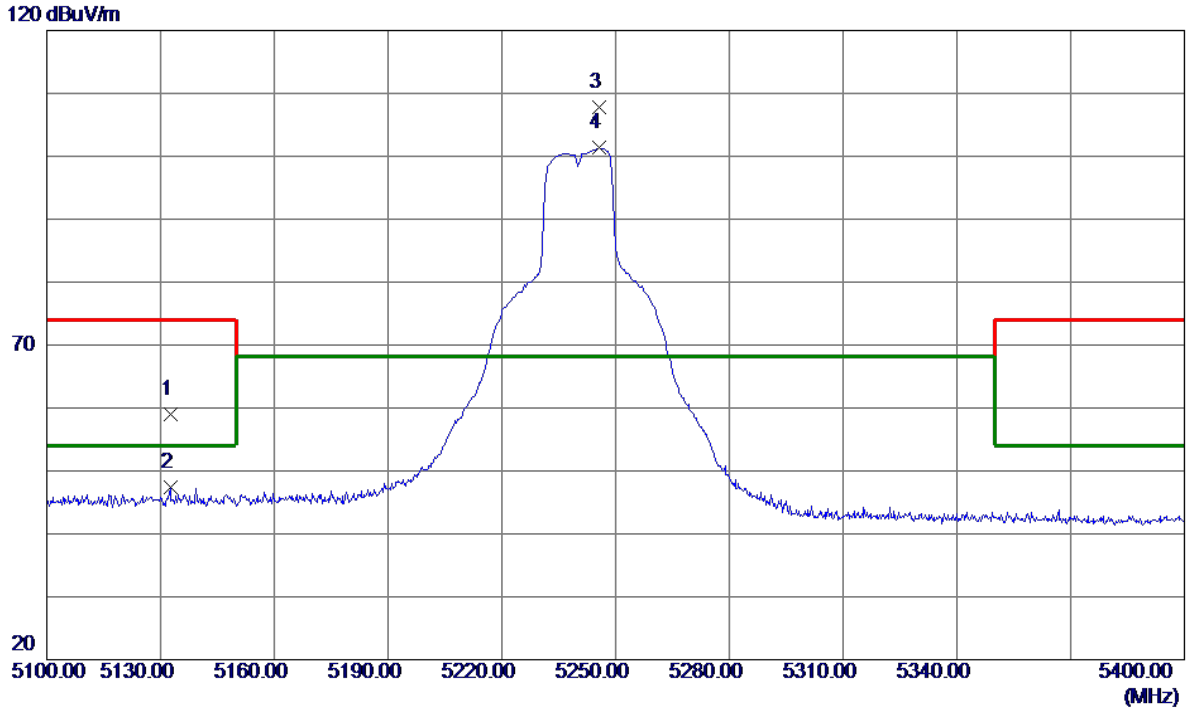
Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480.0000	48.65	3.01	51.66	68.20	-16.54	Peak	

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

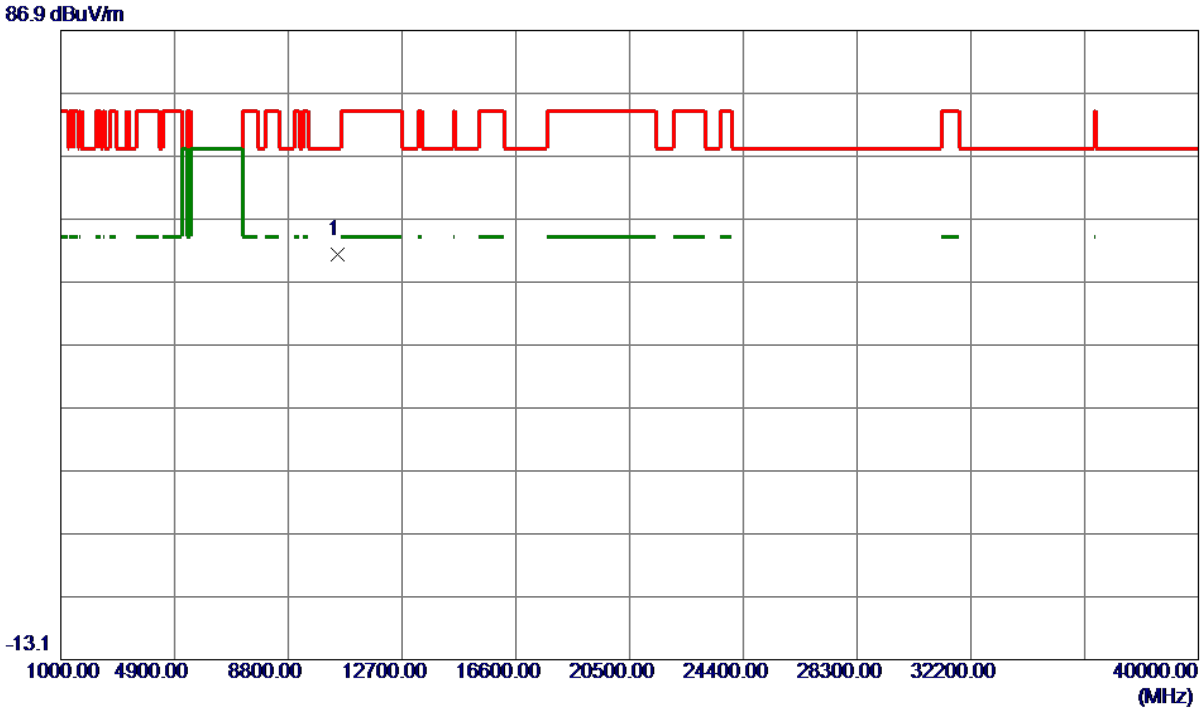
Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5132.5500	21.03	37.94	58.97	74.00	-15.03	Peak	
2	5132.5500	9.47	37.94	47.41	54.00	-6.59	AVG	
3 *	5245.6500	70.14	37.61	107.75	68.20	39.55	Peak	No limit
4	5245.6500	63.74	37.61	101.35	68.20	33.15	AVG	No limit

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

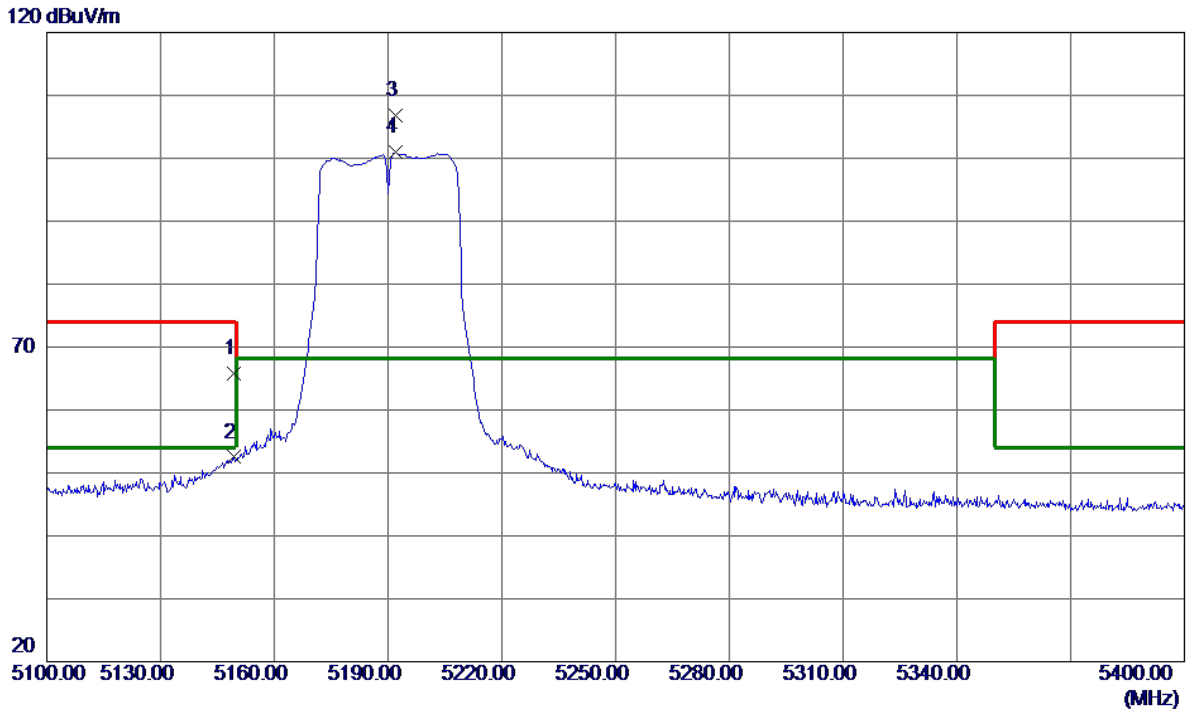
Test Mode	UNII-1_TX AC(VHT20) Mode 5240 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480.0000	48.21	3.01	51.22	68.20	-16.98	Peak	

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

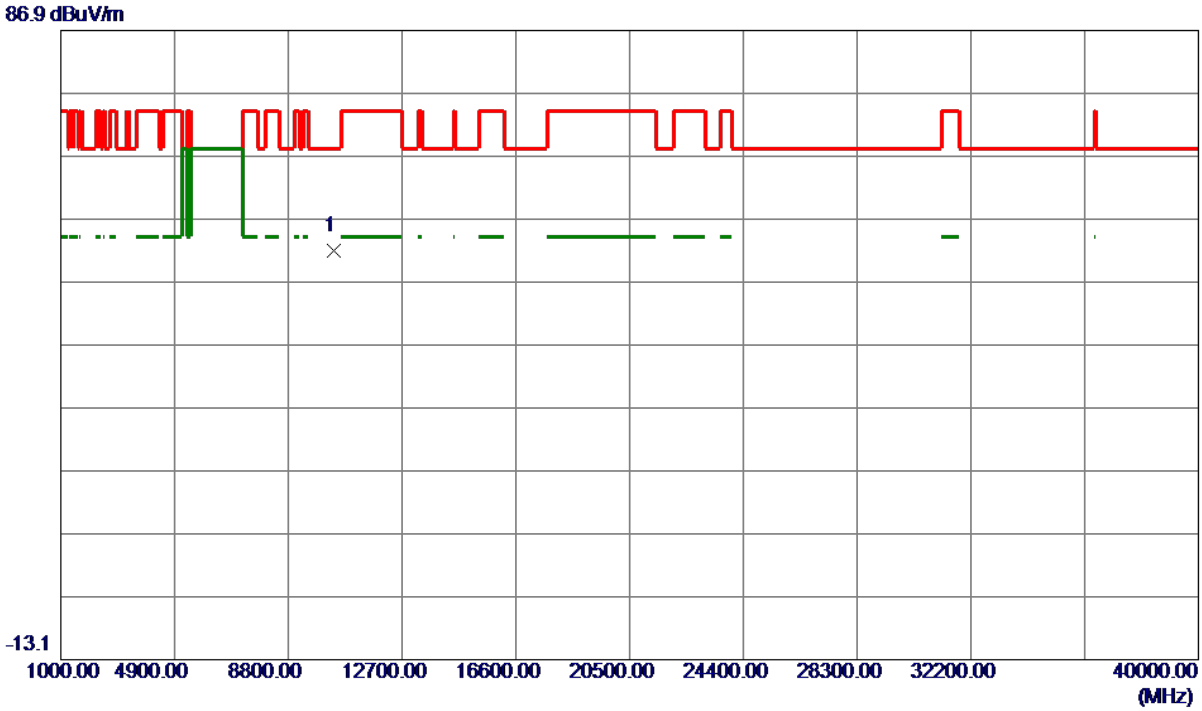
Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5149.3500	27.95	37.88	65.83	74.00	-8.17	Peak	
2	5149.3500	14.62	37.88	52.50	54.00	-1.50	AVG	
3 *	5191.9500	69.15	37.71	106.86	68.20	38.66	Peak	No limit
4	5191.9500	63.24	37.71	100.95	68.20	32.75	AVG	No limit

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

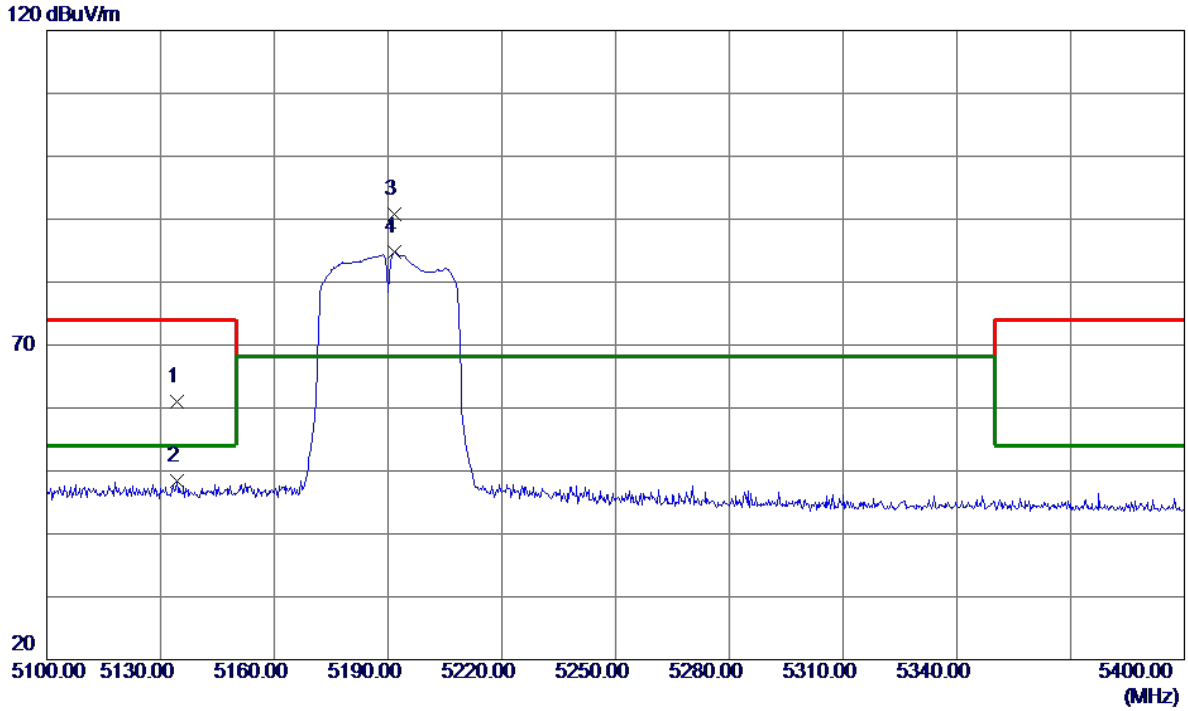
Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10380.0000	49.32	2.65	51.97	68.20	-16.23	Peak	

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

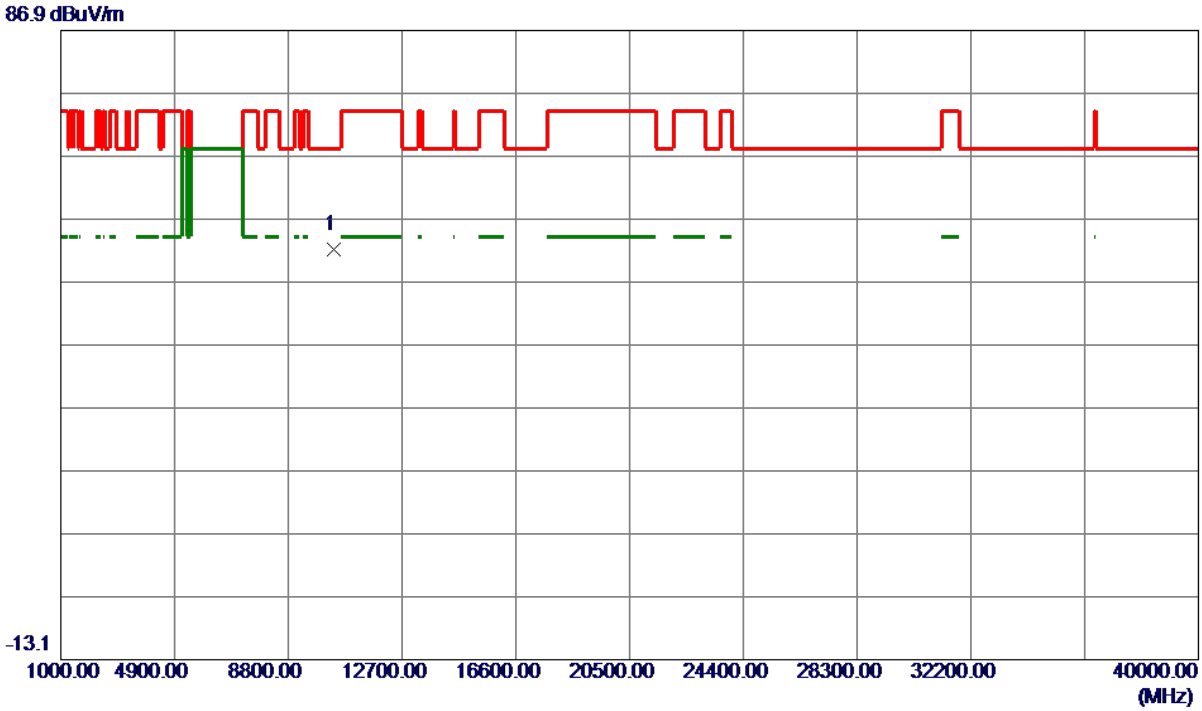
Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5134.2000	22.98	37.94	60.92	74.00	-13.08	Peak	
2	5134.2000	10.49	37.94	48.43	54.00	-5.57	AVG	
3 *	5191.8000	53.16	37.71	90.87	68.20	22.67	Peak	No limit
4	5191.8000	47.16	37.71	84.87	68.20	16.67	AVG	No limit

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

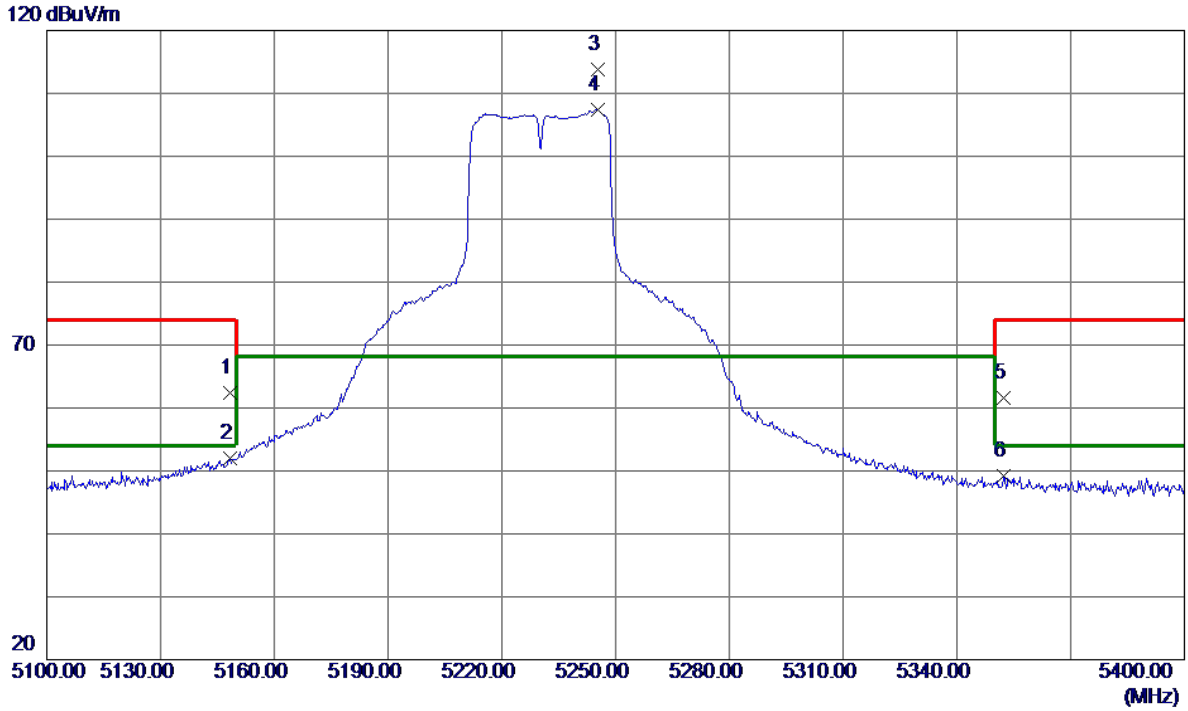
Test Mode	UNII-1_TX AC(VHT40) Mode 5190 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10380.0000	49.36	2.65	52.01	68.20	-16.19	Peak	

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

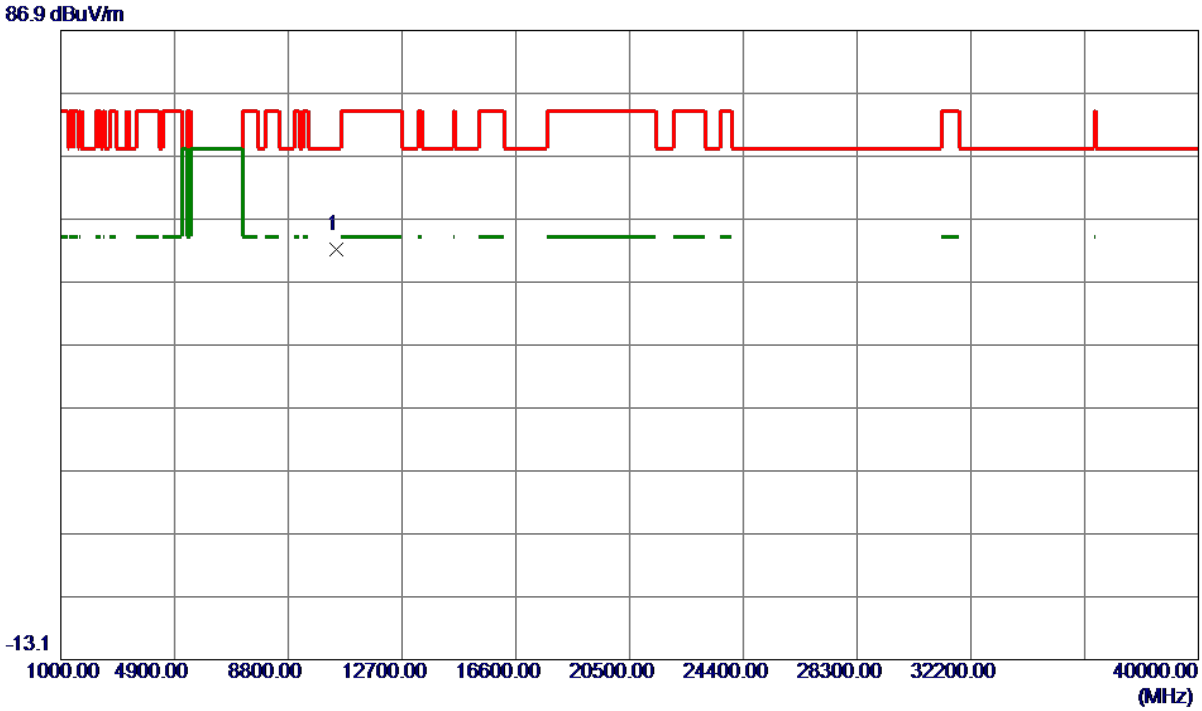
Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5148.3000	24.60	37.88	62.48	74.00	-11.52	Peak	
2	5148.3000	14.06	37.88	51.94	54.00	-2.06	AVG	
3 *	5245.2000	76.15	37.61	113.76	68.20	45.56	Peak	No limit
4	5245.2000	69.76	37.61	107.37	68.20	39.17	AVG	No limit
5	5352.4500	23.76	37.75	61.51	74.00	-12.49	Peak	
6	5352.4500	11.38	37.75	49.13	54.00	-4.87	AVG	

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

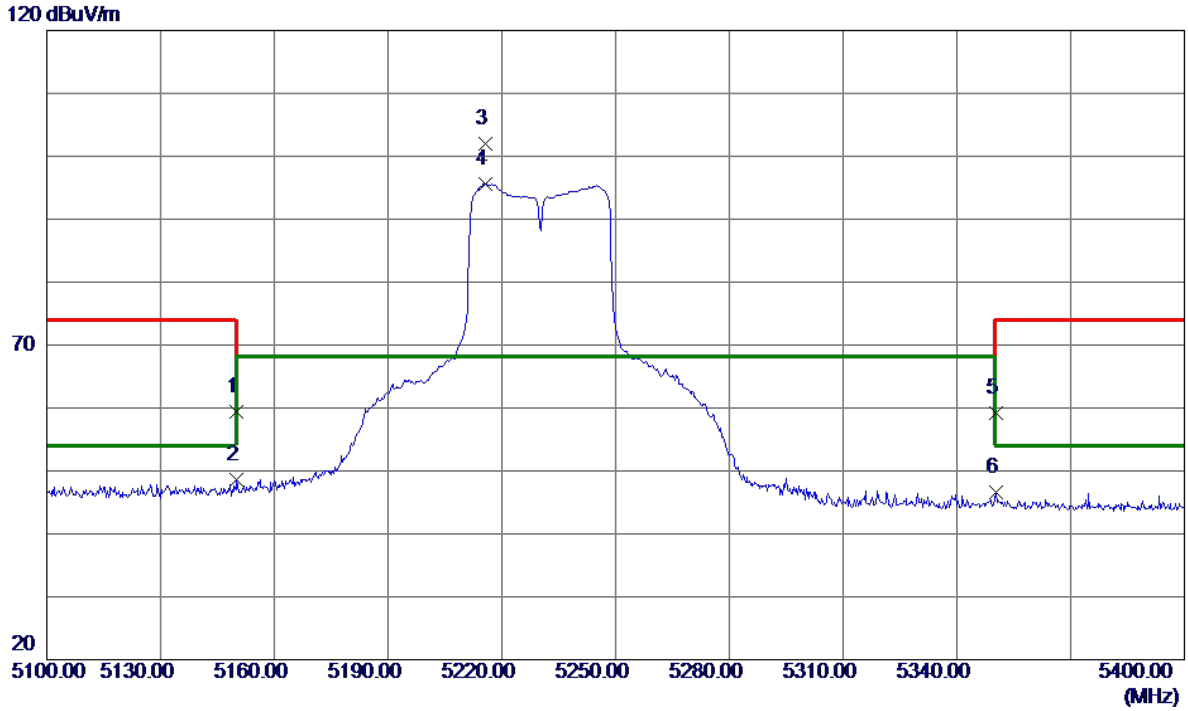
Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10460.0000	49.08	2.94	52.02	68.20	-16.18	Peak	

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

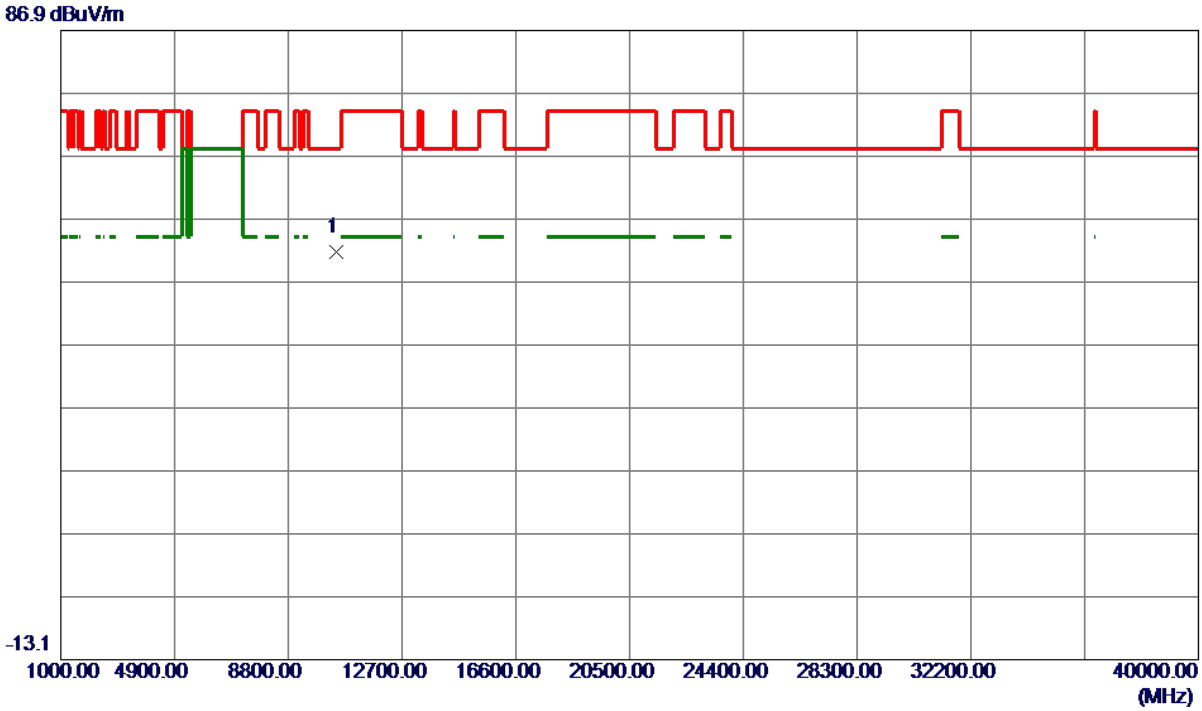
Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	21.51	37.88	59.39	74.00	-14.61	Peak	
2	5150.0000	10.75	37.88	48.63	54.00	-5.37	AVG	
3 *	5215.8000	64.36	37.66	102.02	68.20	33.82	Peak	No limit
4	5215.8000	58.03	37.66	95.69	68.20	27.49	AVG	No limit
5	5350.2000	21.51	37.74	59.25	74.00	-14.75	Peak	
6	5350.2000	8.79	37.74	46.53	54.00	-7.47	AVG	

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

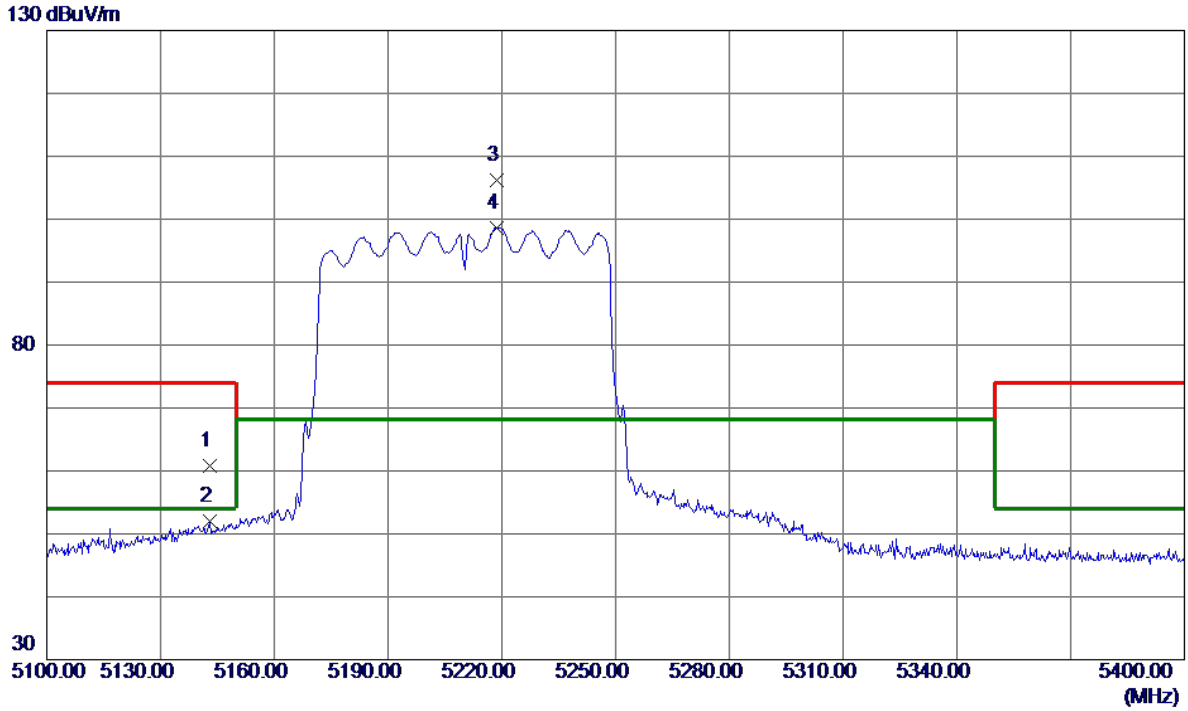
Test Mode	UNII-1_TX AC(VHT40) Mode 5230 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10460.0000	48.75	2.94	51.69	68.20	-16.51	Peak	

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

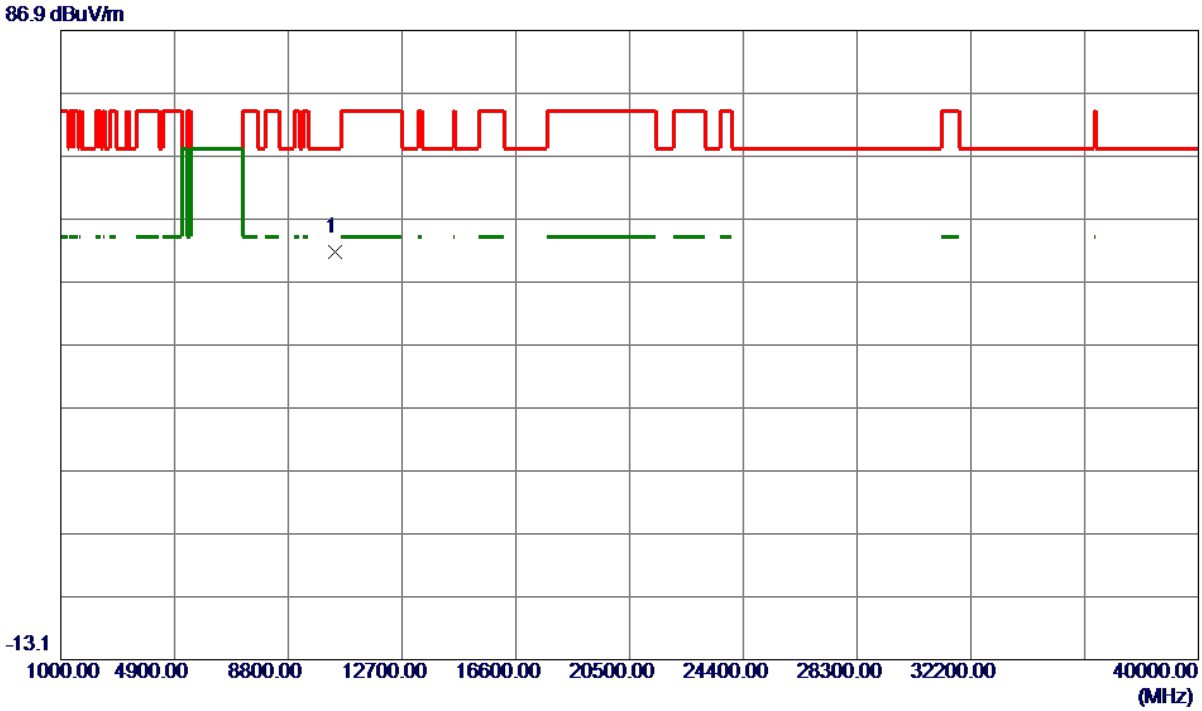
Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5142.9000	22.96	37.90	60.86	74.00	-13.14	Peak	
2	5142.9000	14.19	37.90	52.09	54.00	-1.91	AVG	
3 *	5218.6500	68.62	37.65	106.27	68.20	38.07	Peak	No limit
4	5218.6500	61.03	37.65	98.68	68.20	30.48	AVG	No limit

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

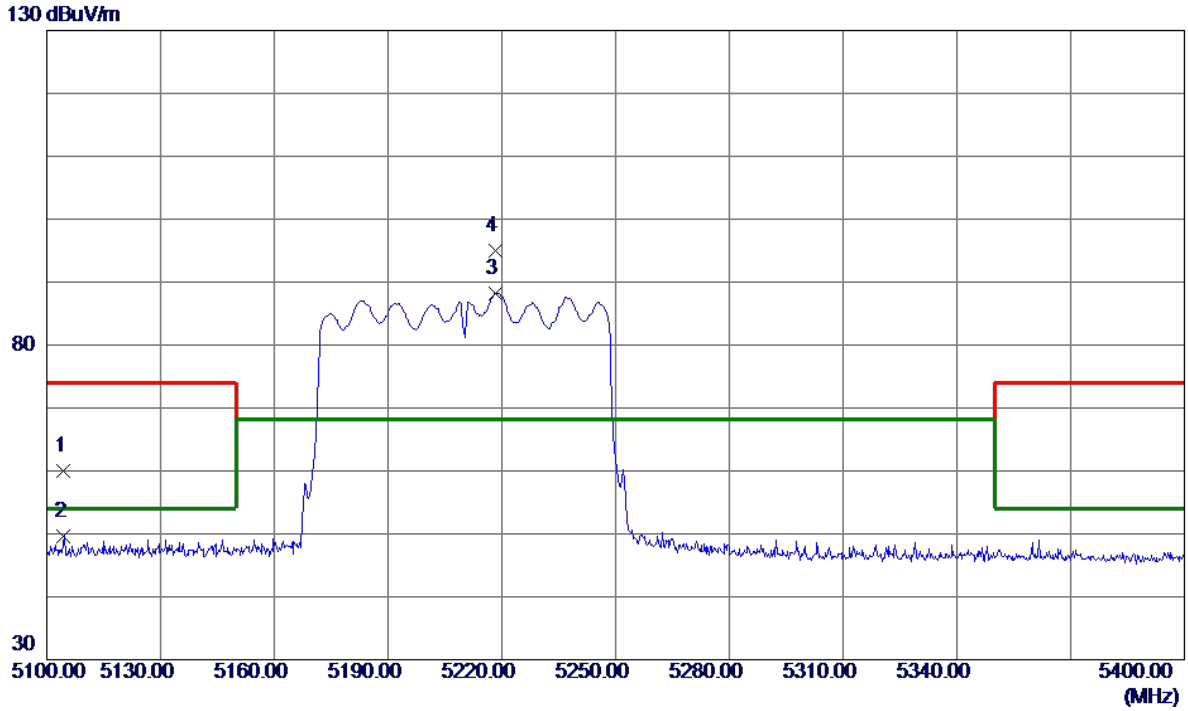
Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10420.0000	48.86	2.80	51.66	68.20	-16.54	Peak	

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

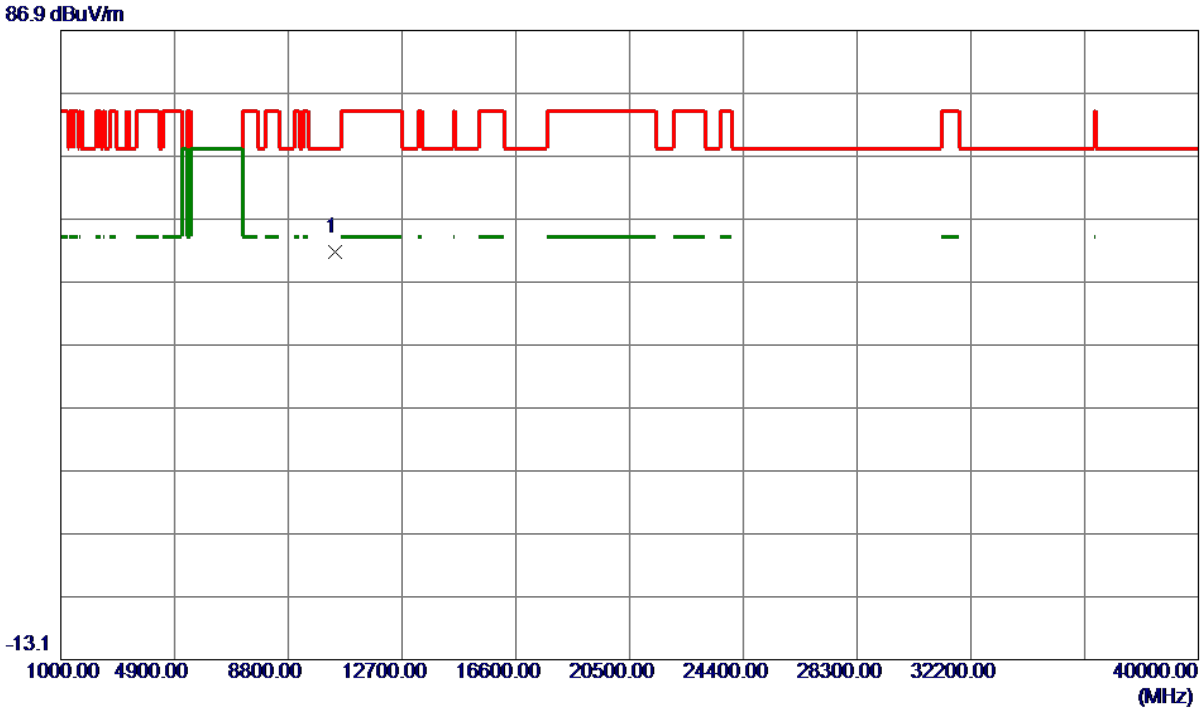
Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5104.5000	22.00	38.05	60.05	74.00	-13.95	Peak	
2	5104.5000	11.47	38.05	49.52	54.00	-4.48	AVG	
3	5218.2000	50.60	37.65	88.25	68.20	20.05	Peak	No limit
4 *	5218.2000	57.31	37.65	94.96	68.20	26.76	AVG	No limit

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

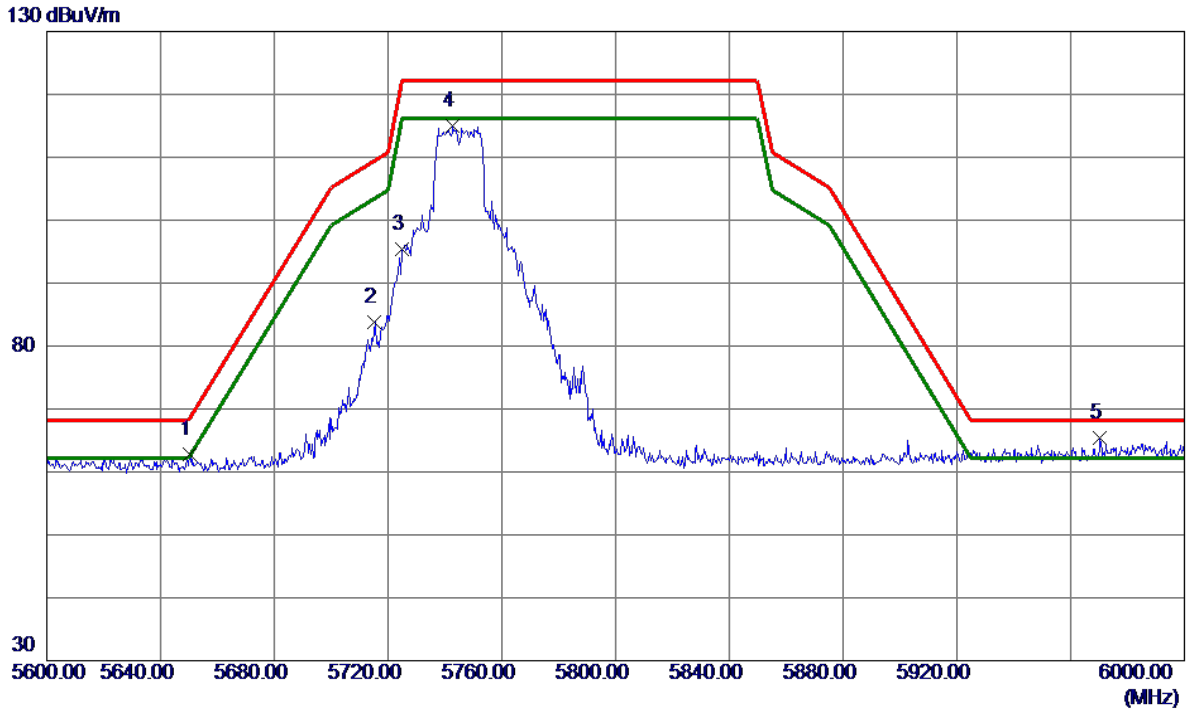
Test Mode	UNII-1_TX AC(VHT80) Mode 5210 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10420.0000	48.95	2.80	51.75	68.20	-16.45	Peak	

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

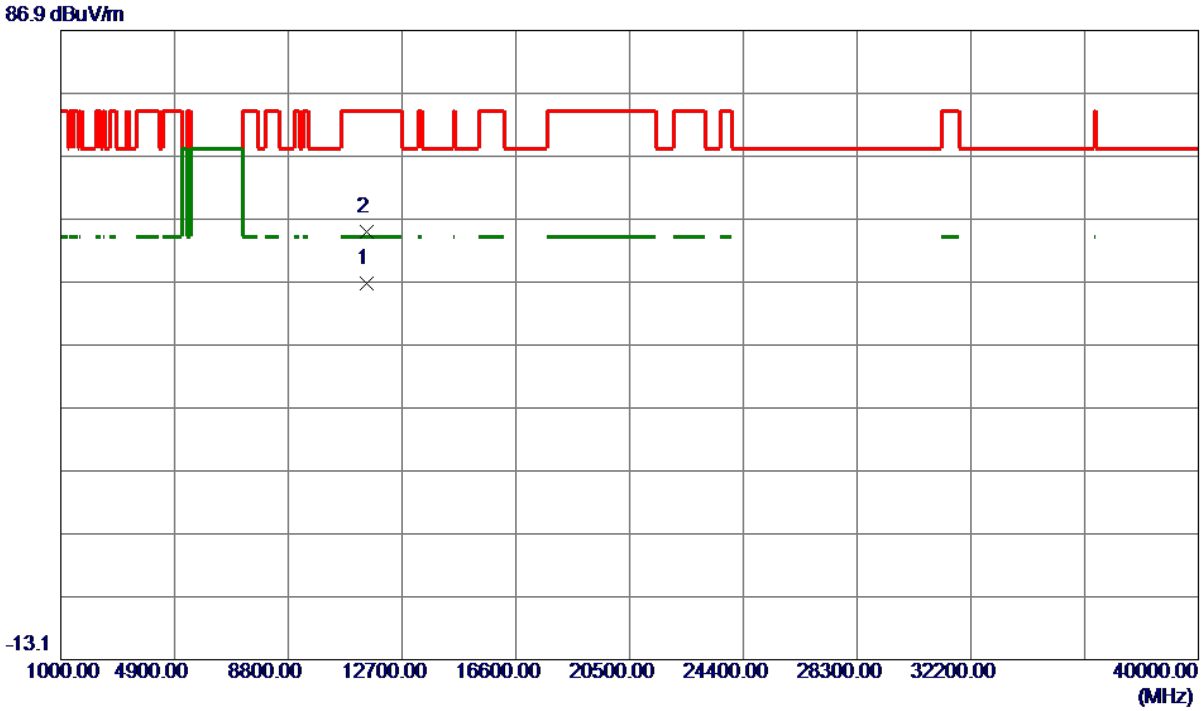
Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5650.2000	24.37	38.37	62.74	68.35	-5.61	Peak	
2	5715.0000	45.27	38.46	83.73	109.40	-25.67	Peak	
3	5725.0000	56.88	38.50	95.38	122.20	-26.82	Peak	
4	5742.8000	76.33	38.57	114.90	122.20	-7.30	Peak	
5 *	5970.4000	26.27	39.19	65.46	68.20	-2.74	Peak	

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

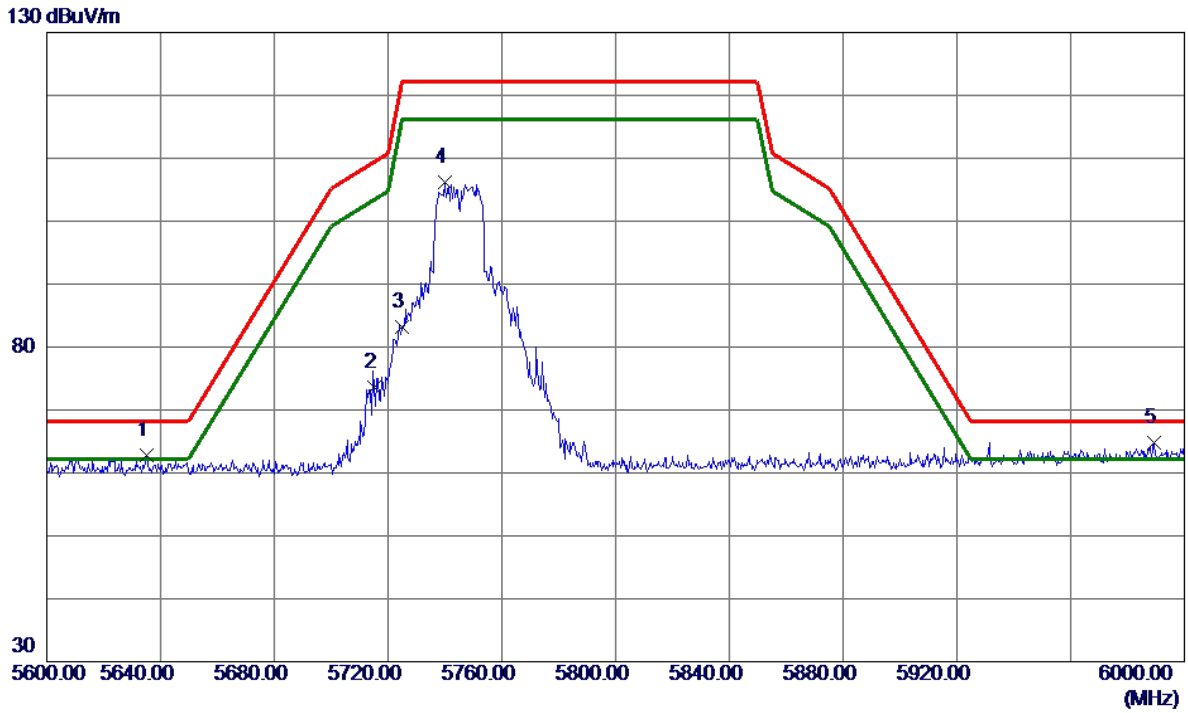
Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11490.8290	43.78	3.00	46.78	54.00	-7.22	AVG	
2	11494.9000	51.86	2.99	54.85	74.00	-19.15	Peak	

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

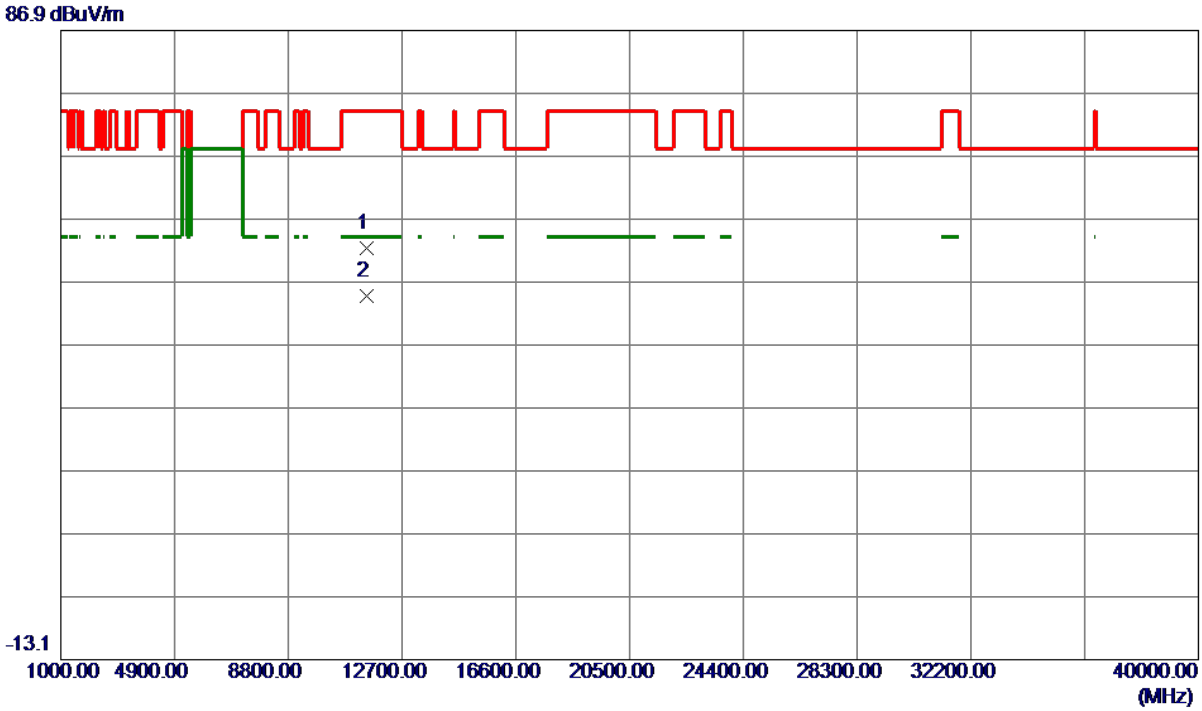
Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5635.2000	24.37	38.36	62.73	68.20	-5.47	Peak	
2	5715.0000	35.13	38.46	73.59	109.40	-35.81	Peak	
3	5725.0000	44.64	38.50	83.14	122.20	-39.06	Peak	
4	5739.8000	67.65	38.55	106.20	122.20	-16.00	Peak	
5 *	5989.2000	25.65	39.23	64.88	68.20	-3.32	Peak	

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

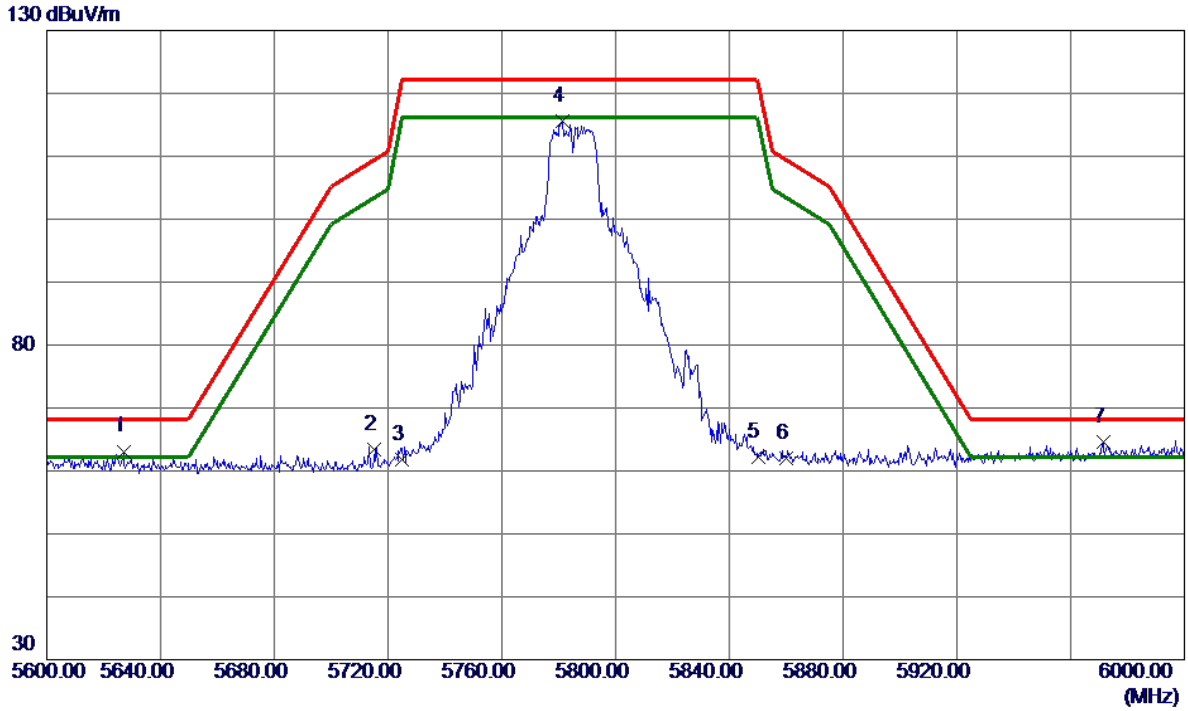
Test Mode	UNII-3_TX A Mode 5745 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11490.0000	49.35	3.01	52.36	74.00	-21.64	Peak	
2 *	11490.1940	41.66	3.01	44.67	54.00	-9.33	AVG	

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

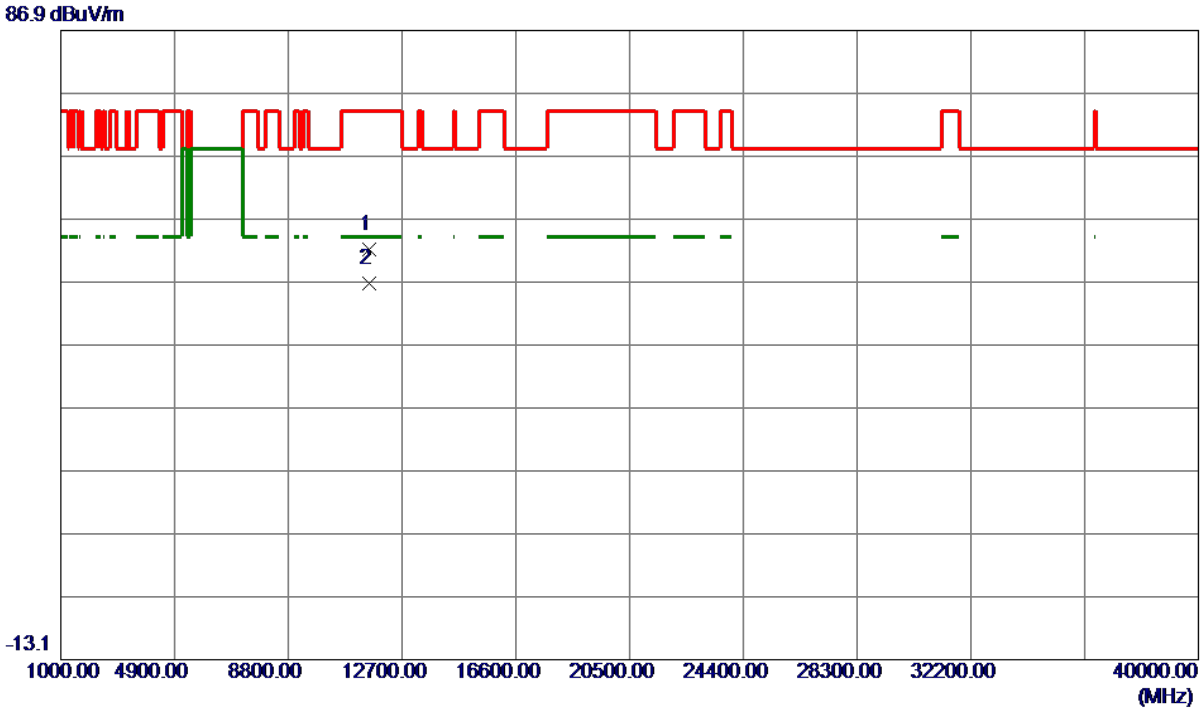
Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5627.0000	24.74	38.36	63.10	68.20	-5.10	Peak	
2	5715.0000	25.02	38.46	63.48	109.40	-45.92	Peak	
3	5725.0000	23.32	38.50	61.82	122.20	-60.38	Peak	
4	5781.2000	76.80	38.71	115.51	122.20	-6.69	Peak	
5	5850.0000	23.25	38.91	62.16	122.20	-60.04	Peak	
6	5860.0000	23.02	38.94	61.96	109.40	-47.44	Peak	
7 *	5971.4000	25.41	39.19	64.60	68.20	-3.60	Peak	

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

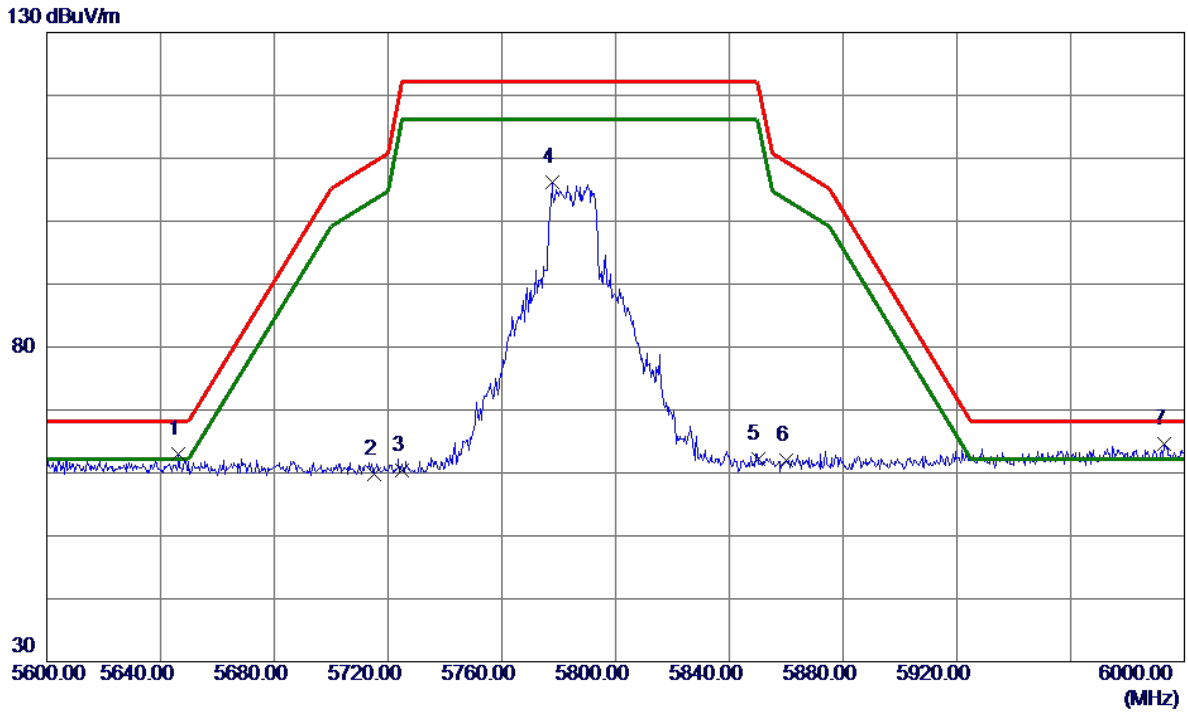
Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11570.0000	49.33	2.80	52.13	74.00	-21.87	Peak	
2 *	11570.2560	43.88	2.80	46.68	54.00	-7.32	AVG	

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

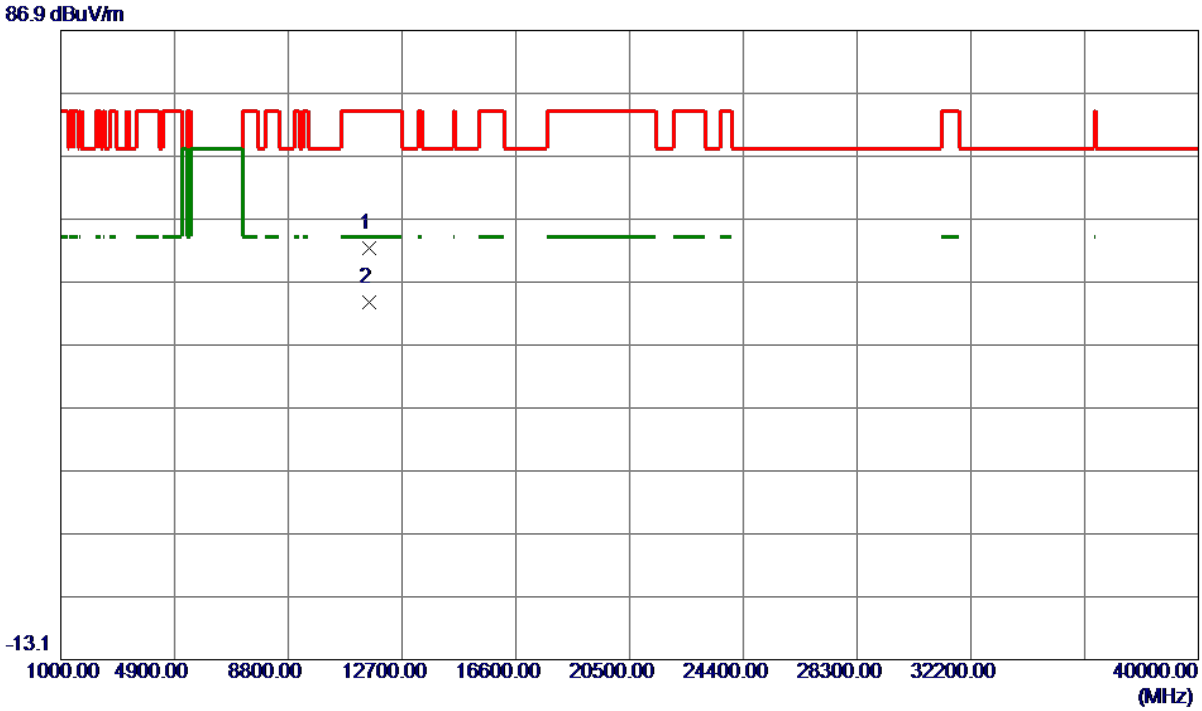
Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5646.4000	24.58	38.37	62.95	68.20	-5.25	Peak	
2	5715.0000	21.41	38.46	59.87	109.40	-49.53	Peak	
3	5725.0000	21.91	38.50	60.41	122.20	-61.79	Peak	
4	5777.8000	67.44	38.70	106.14	122.20	-16.06	Peak	
5	5850.0000	23.32	38.91	62.23	122.20	-59.97	Peak	
6	5860.0000	23.08	38.94	62.02	109.40	-47.38	Peak	
7 *	5993.0000	25.37	39.24	64.61	68.20	-3.59	Peak	

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

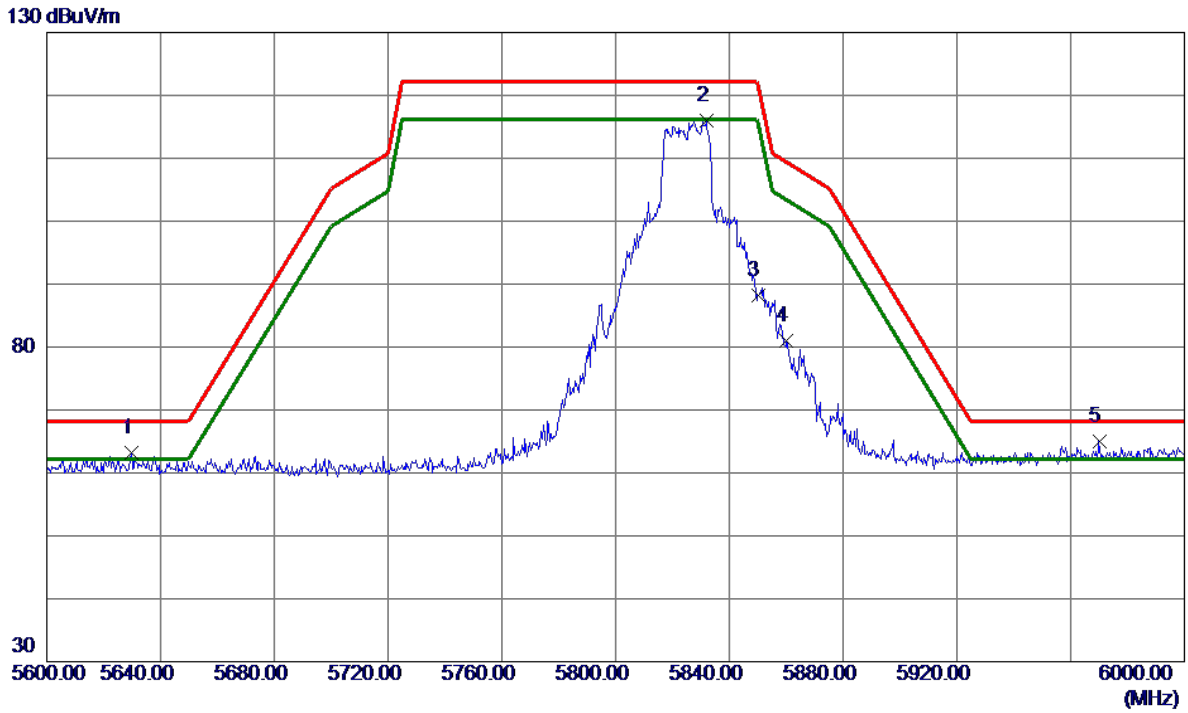
Test Mode	UNII-3_TX A Mode 5785 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11570.0000	49.47	2.80	52.27	74.00	-21.73	Peak	
2 *	11571.7690	40.92	2.79	43.71	54.00	-10.29	AVG	

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

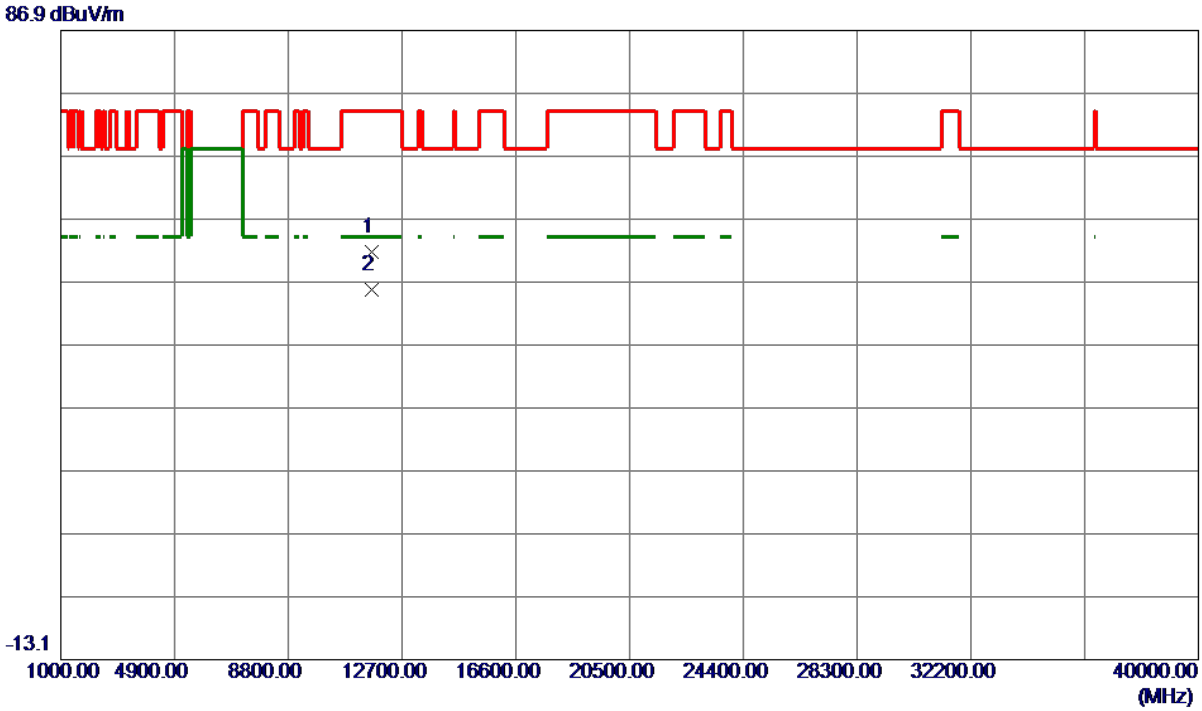
Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5629.6000	24.83	38.36	63.19	68.20	-5.01	Peak	
2	5831.8000	77.14	38.87	116.01	122.20	-6.19	Peak	
3	5850.0000	49.28	38.91	88.19	122.20	-34.01	Peak	
4	5860.0000	42.00	38.94	80.94	109.40	-28.46	Peak	
5 *	5970.0000	25.78	39.19	64.97	68.20	-3.23	Peak	

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

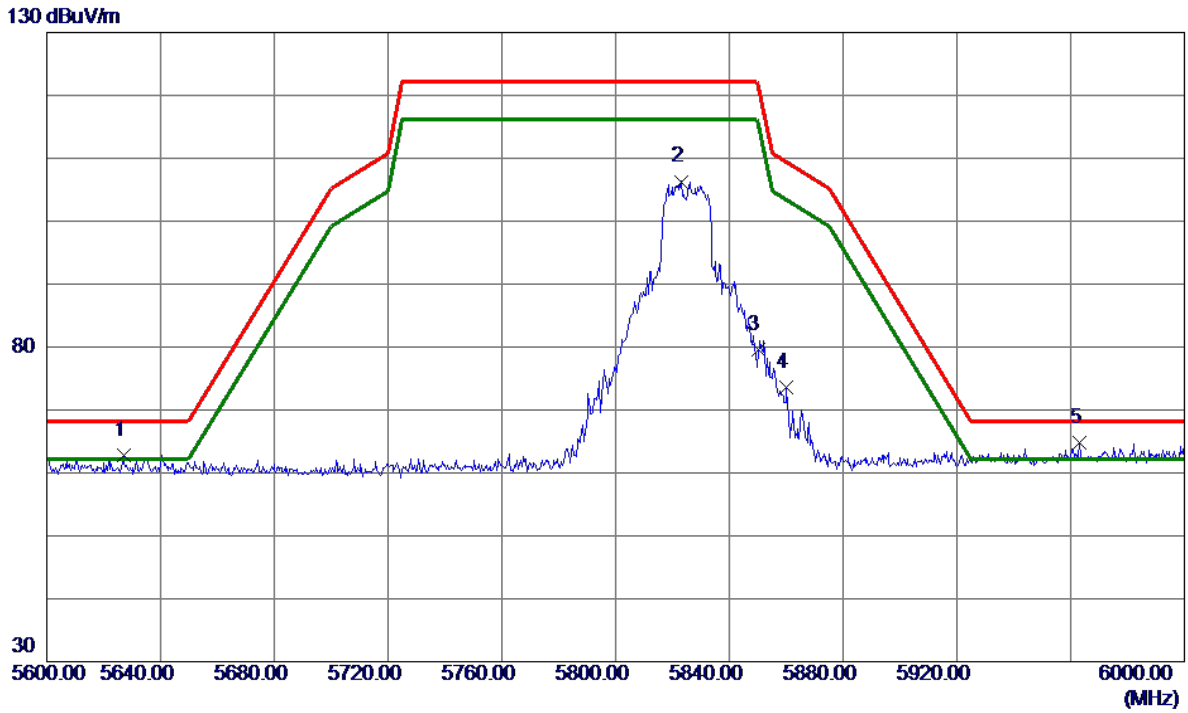
Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11650.0000	49.32	2.35	51.67	74.00	-22.33	Peak	
2 *	11650.1740	43.38	2.35	45.73	54.00	-8.27	AVG	

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

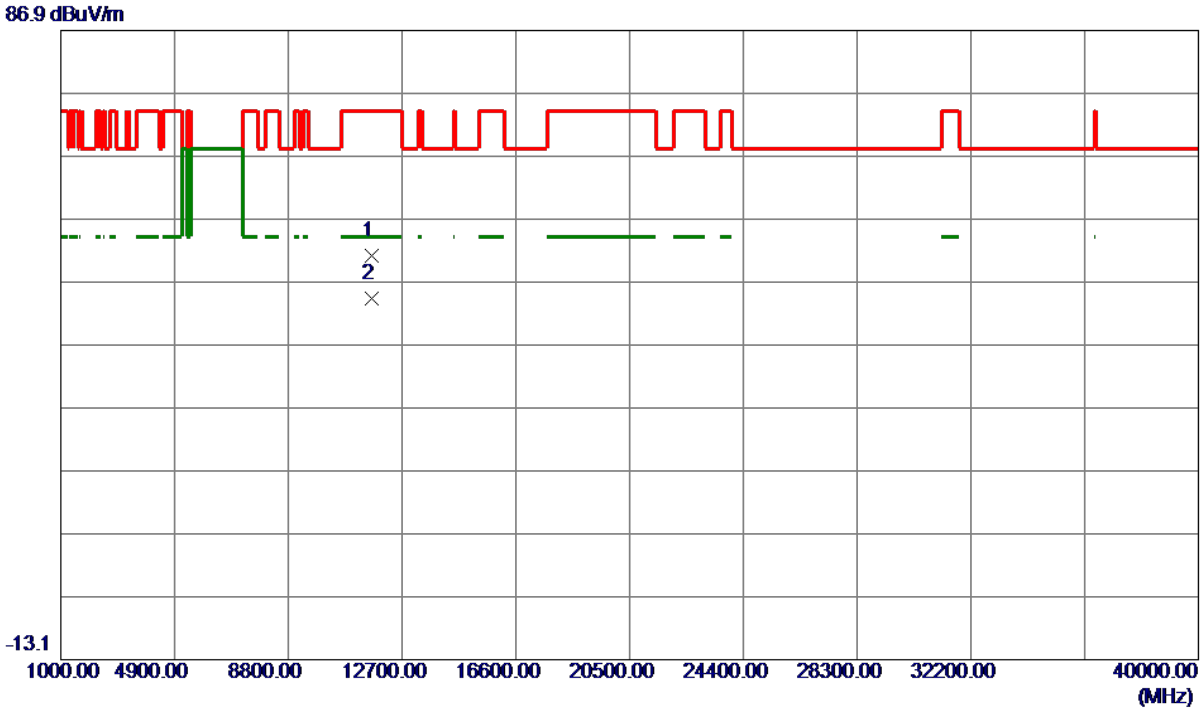
Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5627.0000	24.37	38.36	62.73	68.20	-5.47	Peak	
2	5823.0000	67.46	38.84	106.30	122.20	-15.90	Peak	
3	5850.0000	40.60	38.91	79.51	122.20	-42.69	Peak	
4	5860.0000	34.63	38.94	73.57	109.40	-35.83	Peak	
5 *	5963.2000	25.54	39.18	64.72	68.20	-3.48	Peak	

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

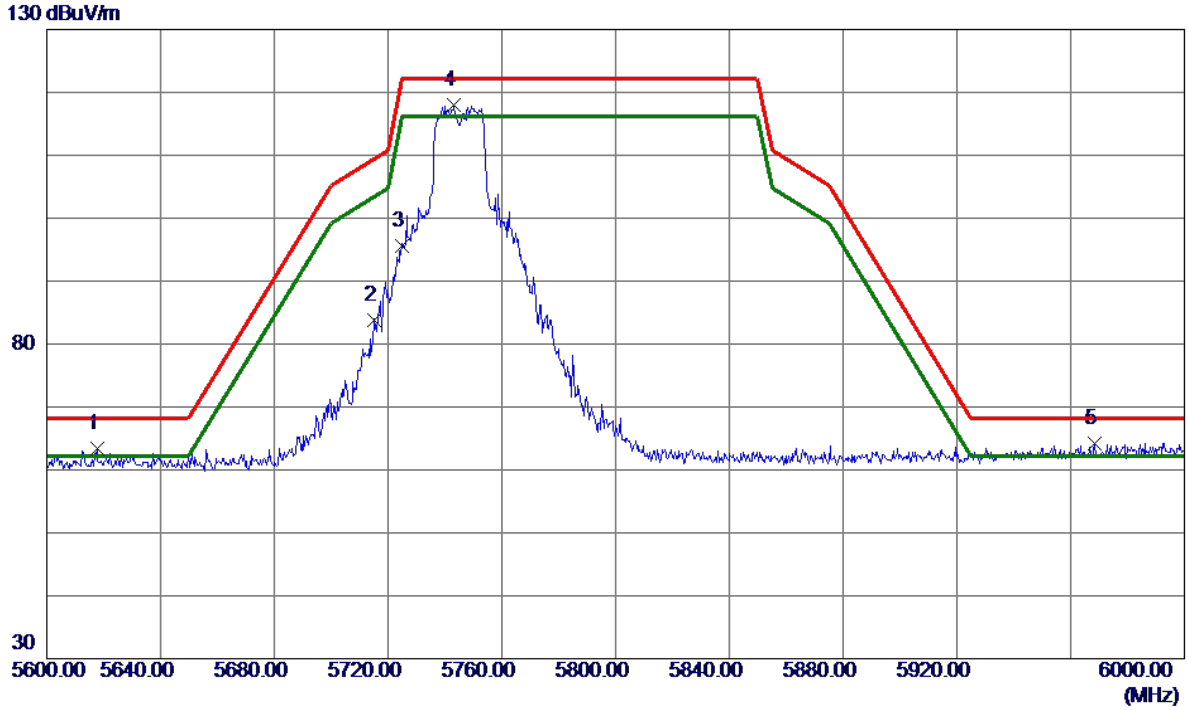
Test Mode	UNII-3_TX A Mode 5825 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11650.0000	48.82	2.35	51.17	74.00	-22.83	Peak	
2 *	11650.4710	41.94	2.35	44.29	54.00	-9.71	AVG	

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

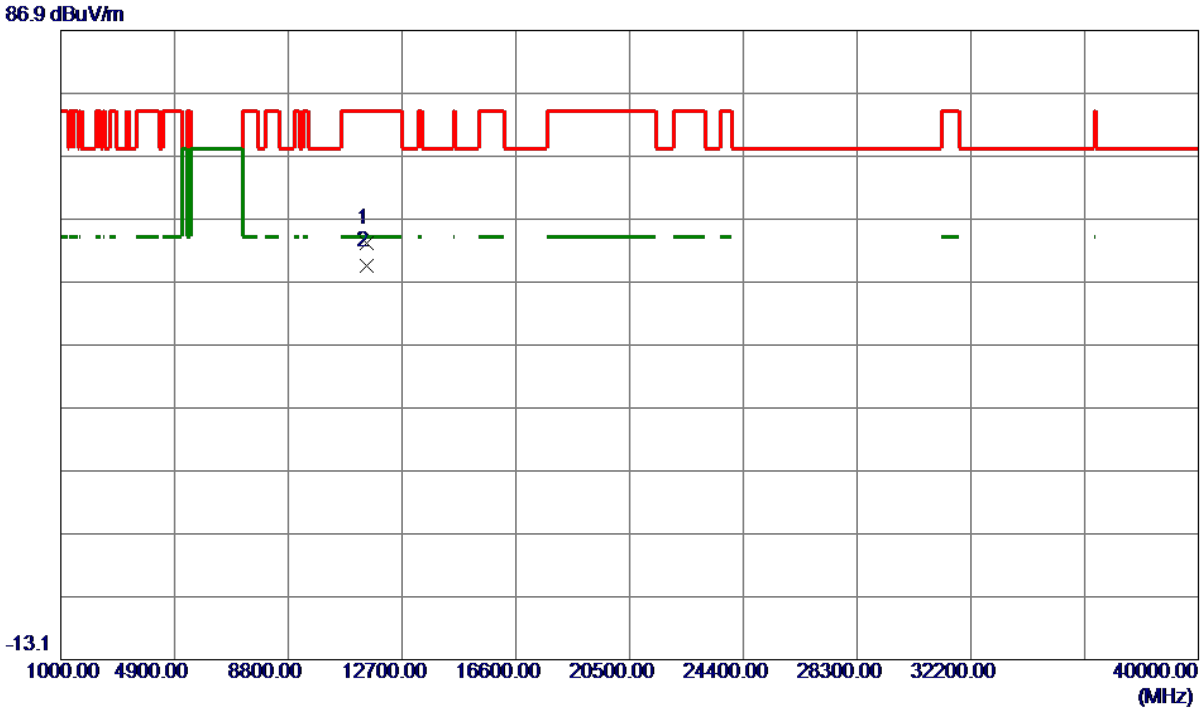
Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5617.8000	25.02	38.35	63.37	68.20	-4.83	Peak	
2	5715.0000	45.41	38.46	83.87	109.40	-25.53	Peak	
3	5725.0000	57.06	38.50	95.56	122.20	-26.64	Peak	
4	5743.2000	79.40	38.57	117.97	122.20	-4.23	Peak	
5 *	5968.4000	25.07	39.19	64.26	68.20	-3.94	Peak	

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

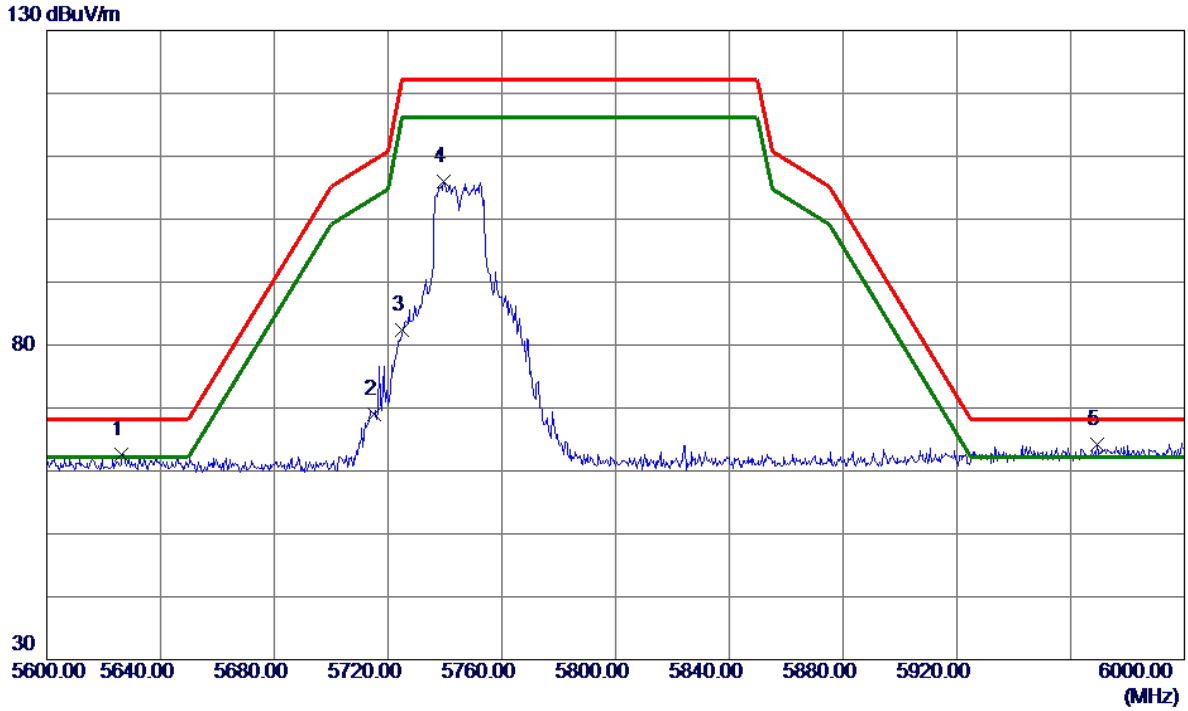
Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11490.0000	50.08	3.01	53.09	74.00	-20.91	Peak	
2 *	11491.1350	46.49	3.00	49.49	54.00	-4.51	AVG	

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

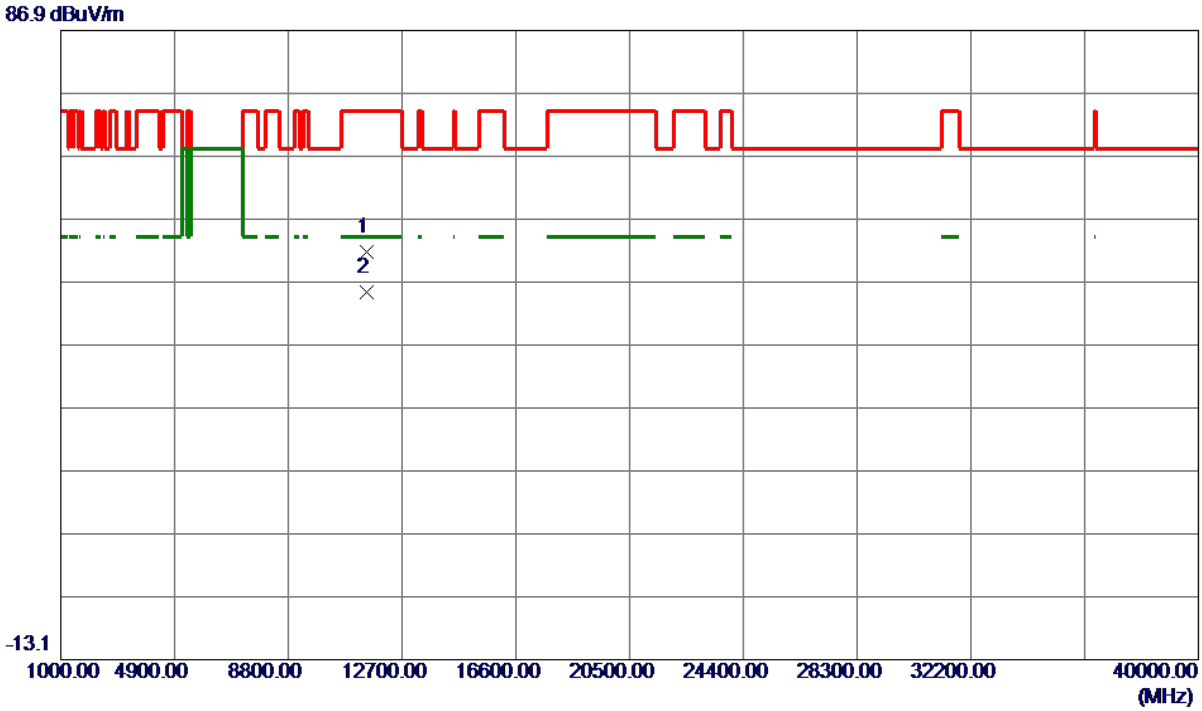
Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5626.4000	24.30	38.36	62.66	68.20	-5.54	Peak	
2	5715.0000	30.50	38.46	68.96	109.40	-40.44	Peak	
3	5725.0000	43.85	38.50	82.35	122.20	-39.85	Peak	
4	5739.6000	67.52	38.55	106.07	122.20	-16.13	Peak	
5 *	5969.2000	24.99	39.19	64.18	68.20	-4.02	Peak	

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

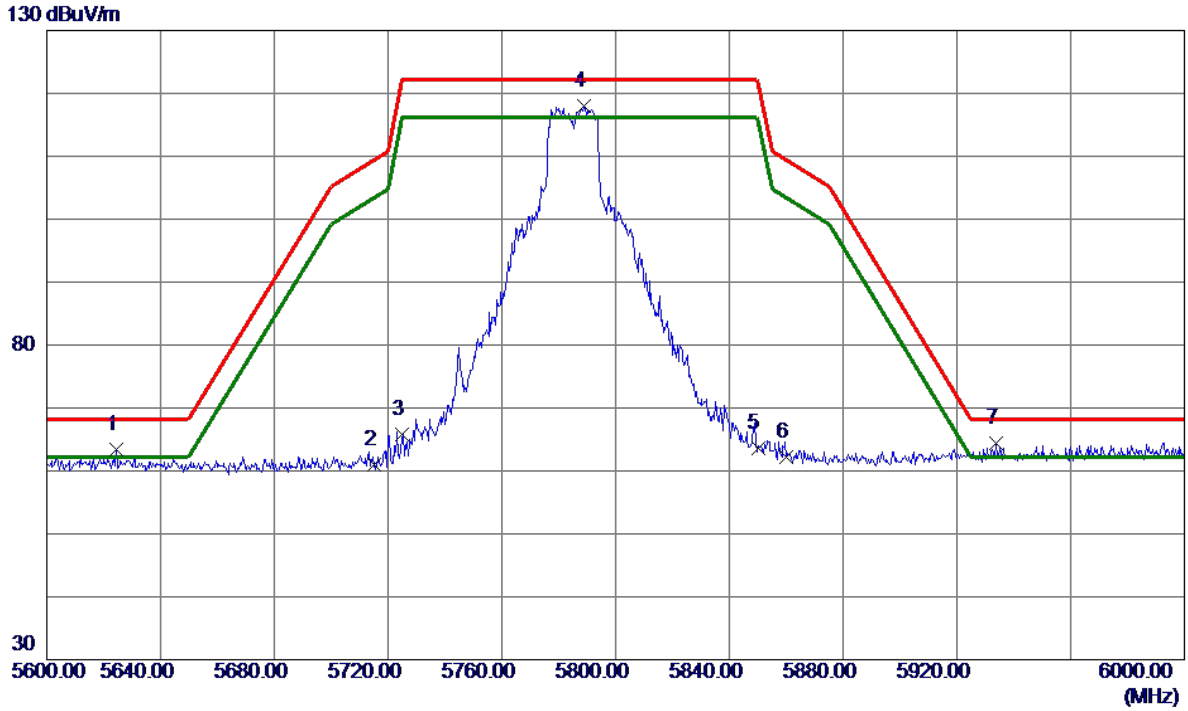
Test Mode	UNII-3_TX AC(VHT20) Mode 5745 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11490.0000	48.71	3.01	51.72	74.00	-22.28	Peak	
2 *	11491.8040	42.21	3.00	45.21	54.00	-8.79	AVG	

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

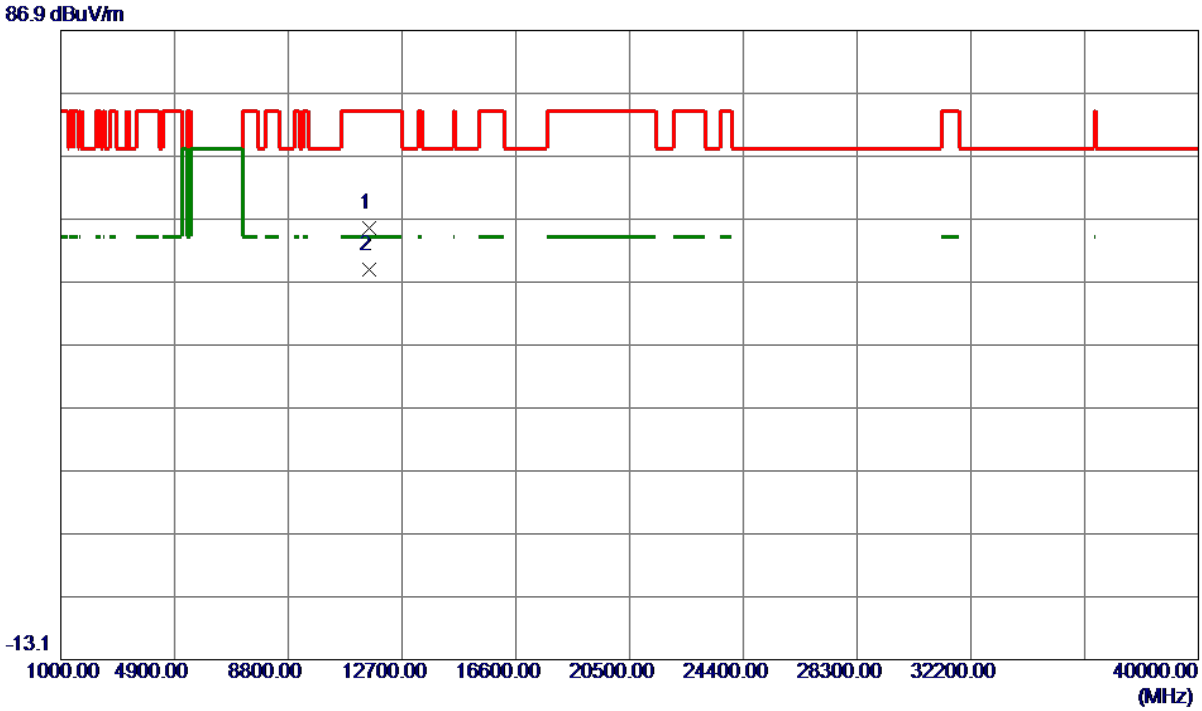
Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5624.4000	24.95	38.36	63.31	68.20	-4.89	Peak	
2	5715.0000	22.60	38.46	61.06	109.40	-48.34	Peak	
3	5725.0000	27.26	38.50	65.76	122.20	-56.44	Peak	
4	5788.8000	79.36	38.74	118.10	122.20	-4.10	Peak	
5	5850.0000	24.71	38.91	63.62	122.20	-58.58	Peak	
6	5860.0000	23.18	38.94	62.12	109.40	-47.28	Peak	
7 *	5933.8000	25.23	39.12	64.35	68.20	-3.85	Peak	

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

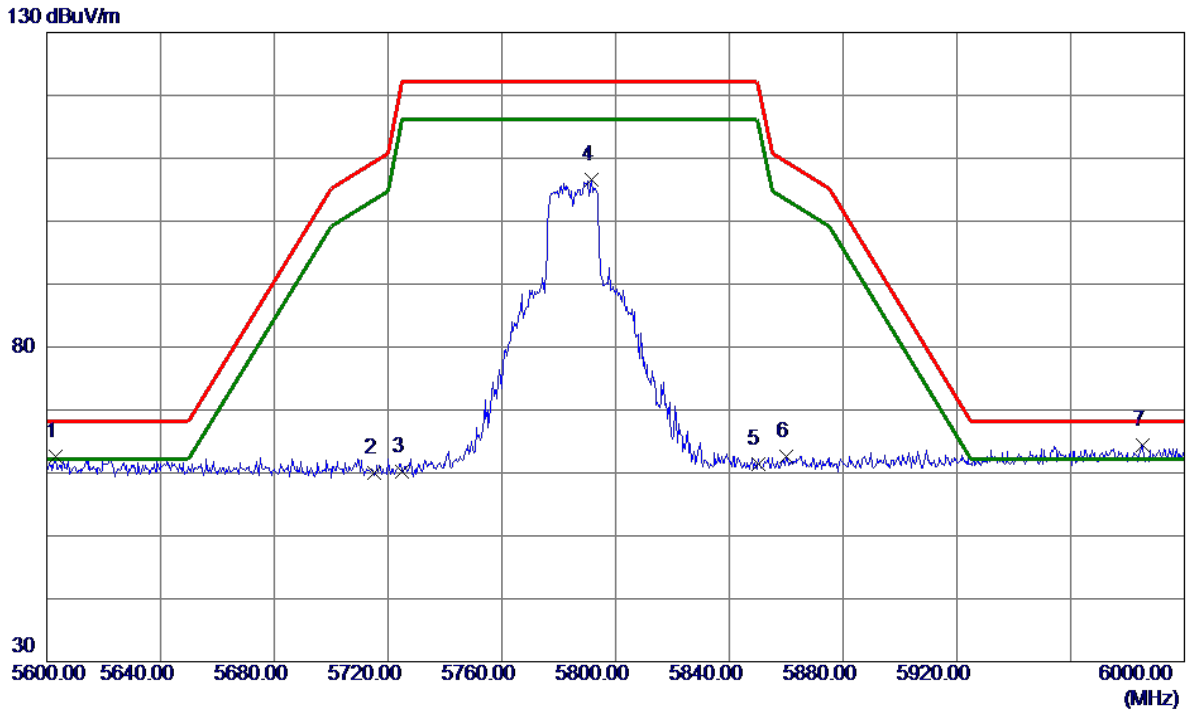
Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11569.0000	52.79	2.80	55.59	74.00	-18.41	Peak	
2 *	11573.1200	46.15	2.79	48.94	54.00	-5.06	AVG	

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

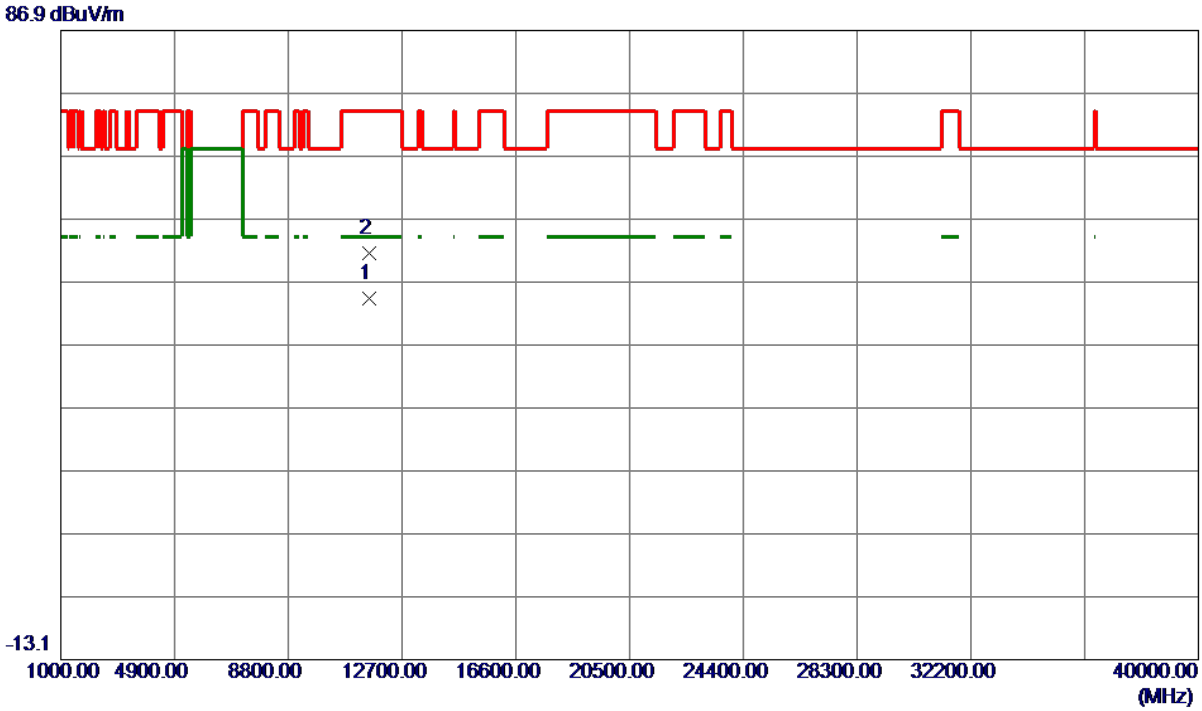
Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5603.2000	24.17	38.34	62.51	68.20	-5.69	Peak	
2	5715.0000	21.62	38.46	60.08	109.40	-49.32	Peak	
3	5725.0000	21.78	38.50	60.28	122.20	-61.92	Peak	
4	5791.6000	67.94	38.75	106.69	122.20	-15.51	Peak	
5	5850.0000	22.51	38.91	61.42	122.20	-60.78	Peak	
6	5860.0000	23.62	38.94	62.56	109.40	-46.84	Peak	
7 *	5985.2000	25.11	39.22	64.33	68.20	-3.87	Peak	

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

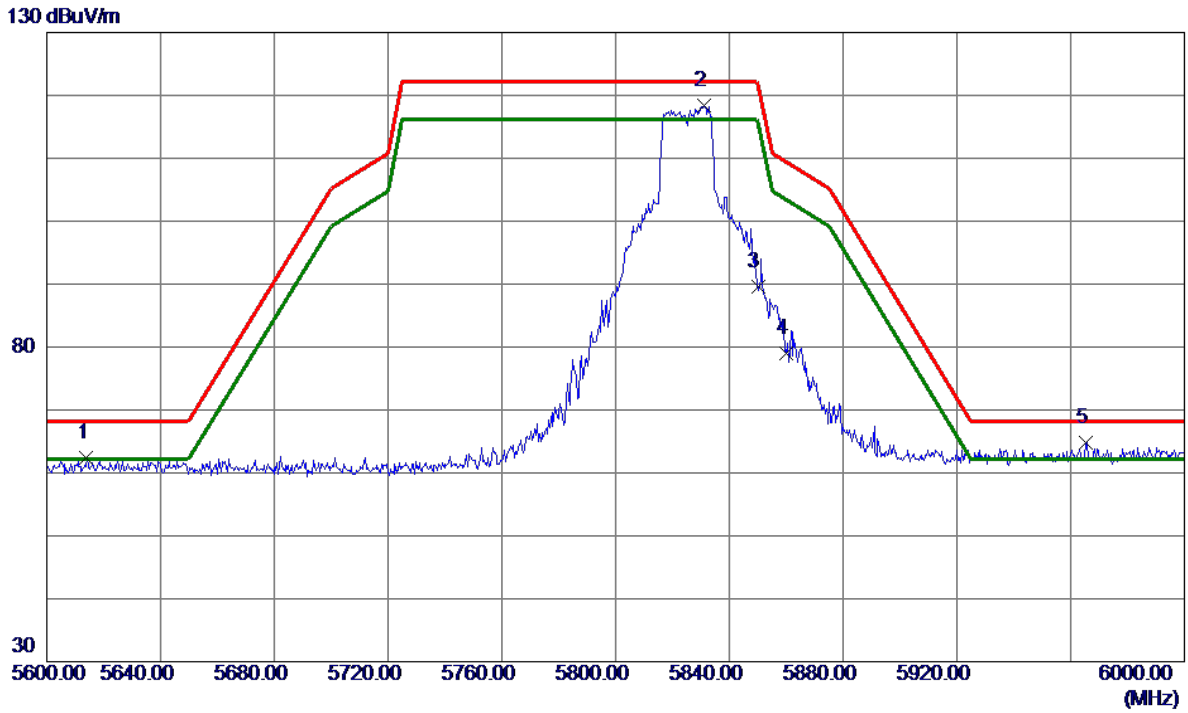
Test Mode	UNII-3_TX AC(VHT20) Mode 5785 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11569.0000	41.46	2.80	44.26	54.00	-9.74	AVG	
2	11570.0000	48.74	2.80	51.54	74.00	-22.46	Peak	

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

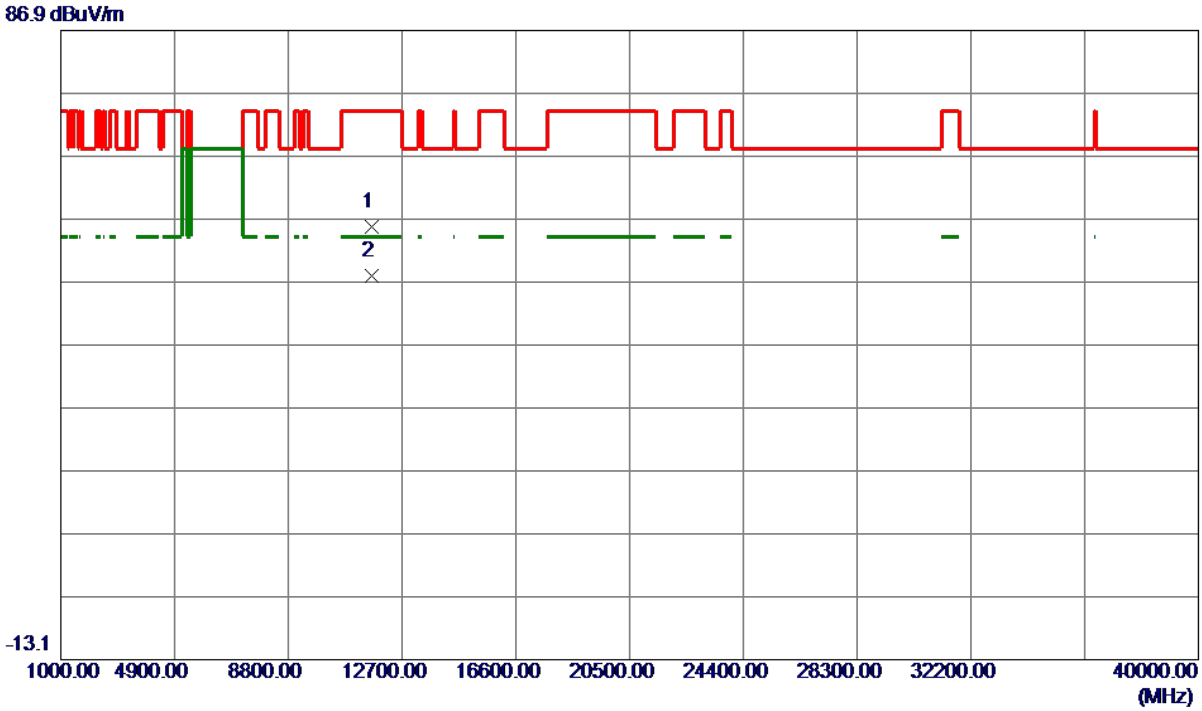
Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5614.0000	24.02	38.35	62.37	68.20	-5.83	Peak	
2	5831.2000	79.50	38.86	118.36	122.20	-3.84	Peak	
3	5850.0000	50.69	38.91	89.60	122.20	-32.60	Peak	
4	5860.0000	40.10	38.94	79.04	109.40	-30.36	Peak	
5 *	5965.4000	25.70	39.18	64.88	68.20	-3.32	Peak	

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

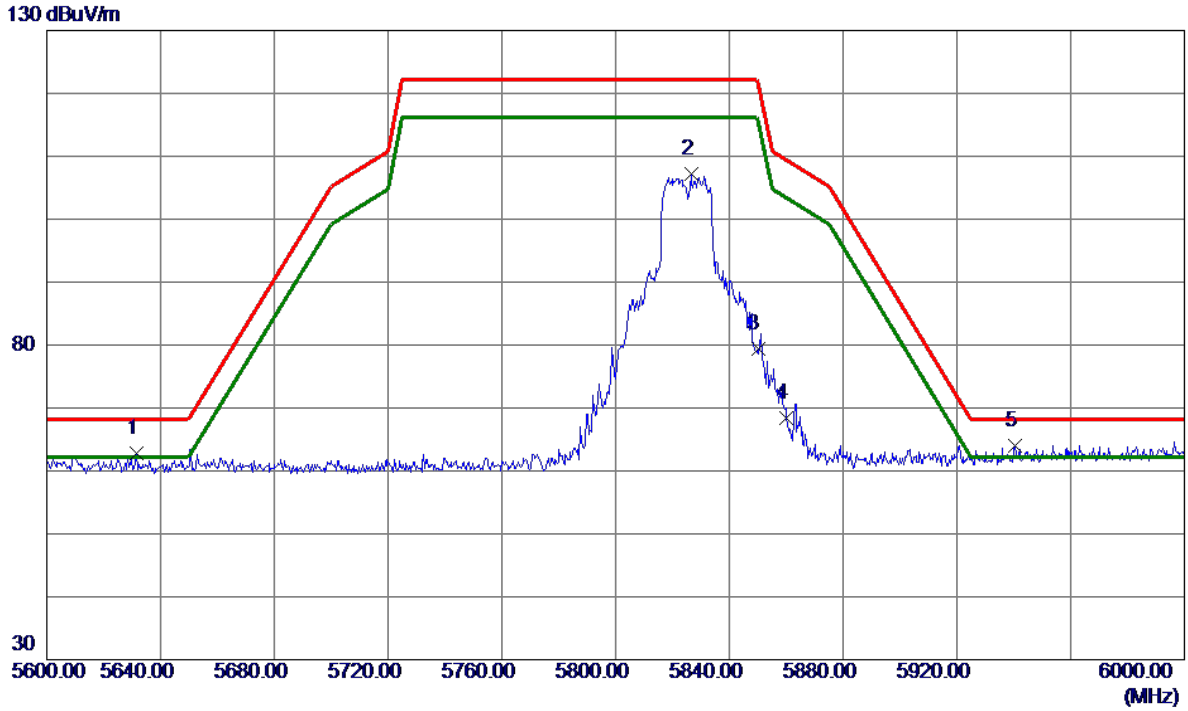
Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11648.9500	53.26	2.36	55.62	74.00	-18.38	Peak	
2 *	11652.7650	45.66	2.33	47.99	54.00	-6.01	AVG	

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

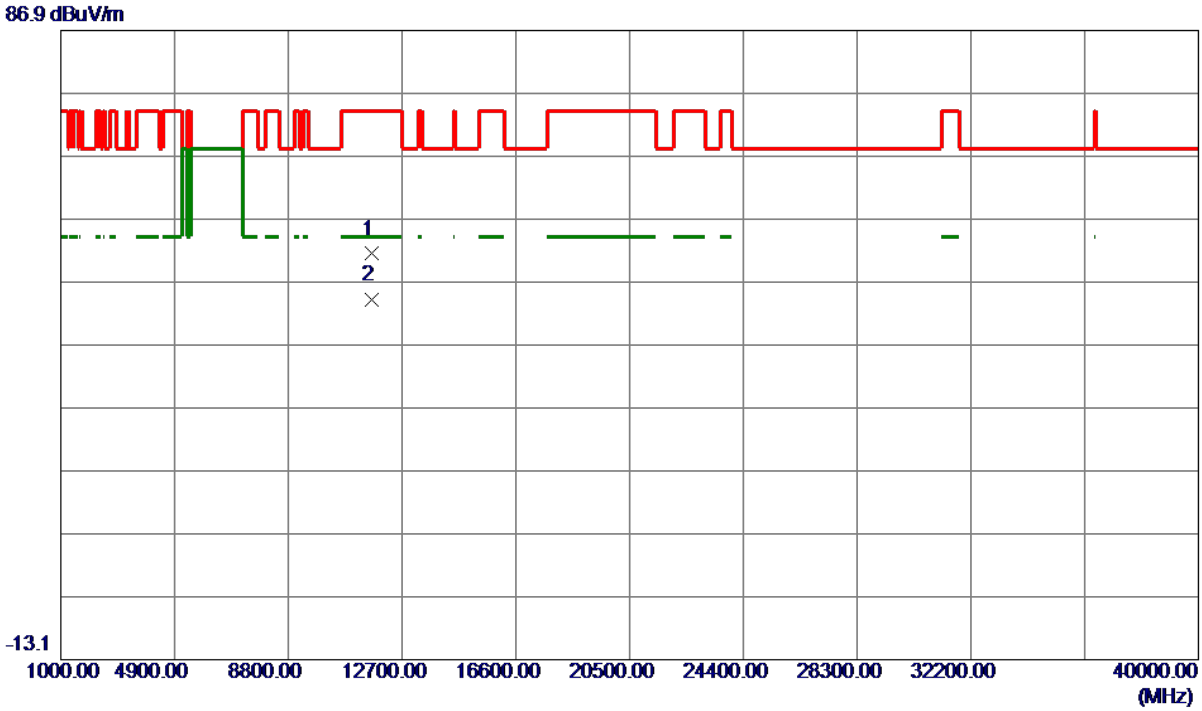
Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5631.4000	24.52	38.36	62.88	68.20	-5.32	Peak	
2	5826.6000	68.27	38.85	107.12	122.20	-15.08	Peak	
3	5850.0000	40.52	38.91	79.43	122.20	-42.77	Peak	
4	5860.0000	29.52	38.94	68.46	109.40	-40.94	Peak	
5 *	5940.4000	24.87	39.13	64.00	68.20	-4.20	Peak	

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

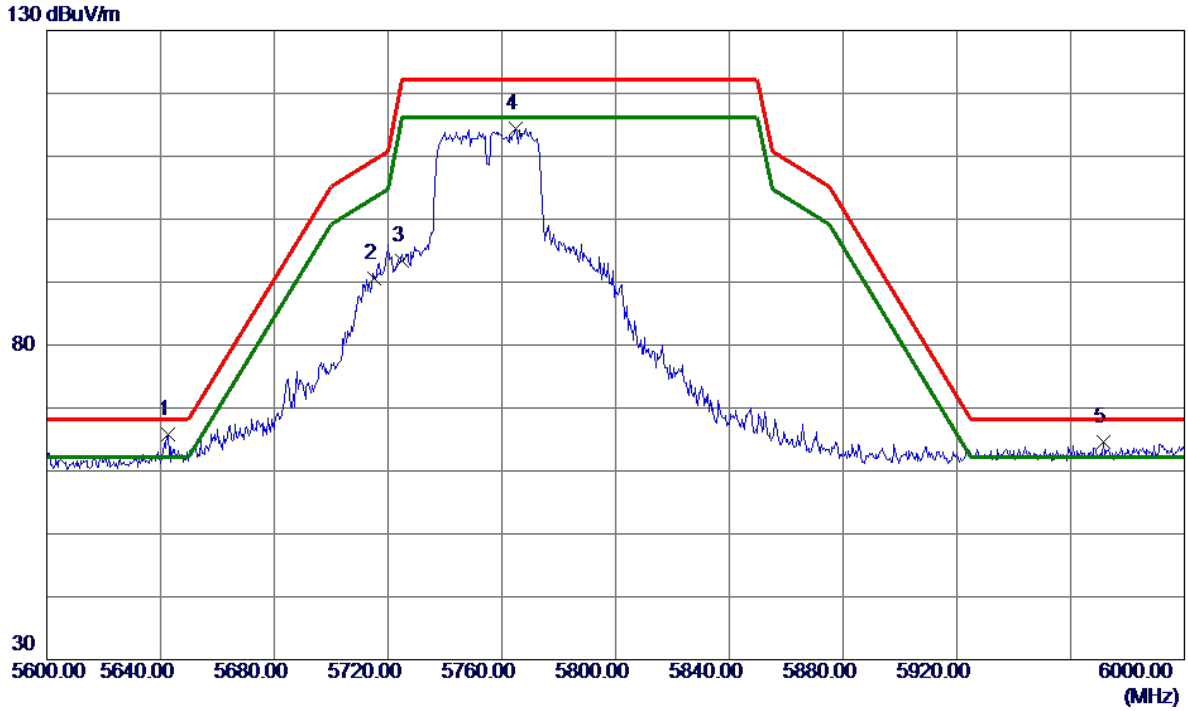
Test Mode	UNII-3_TX AC(VHT20) Mode 5825 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11650.0000	49.05	2.35	51.40	74.00	-22.60	Peak	
2 *	11654.2539	41.84	2.32	44.16	54.00	-9.84	AVG	

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

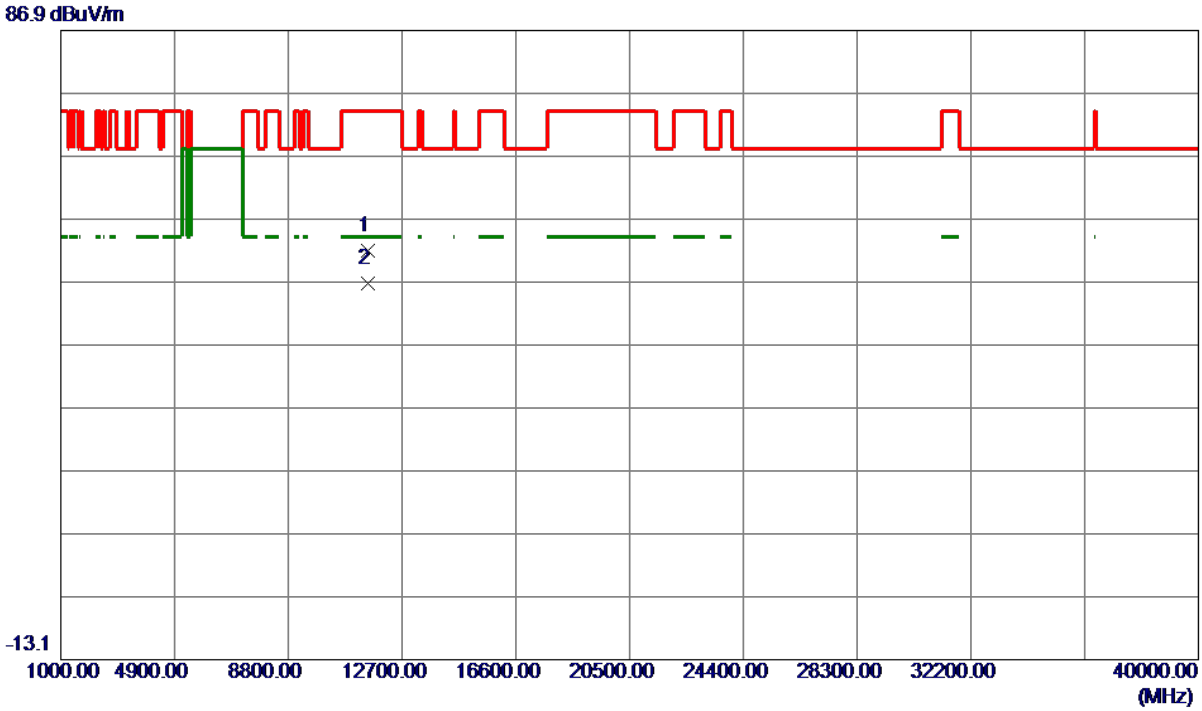
Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5642.6000	27.44	38.37	65.81	68.20	-2.39	Peak	
2	5715.0000	52.17	38.46	90.63	109.40	-18.77	Peak	
3	5725.0000	54.91	38.50	93.41	122.20	-28.79	Peak	
4	5764.8000	75.75	38.65	114.40	122.20	-7.80	Peak	
5	5971.6000	25.34	39.19	64.53	68.20	-3.67	Peak	

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

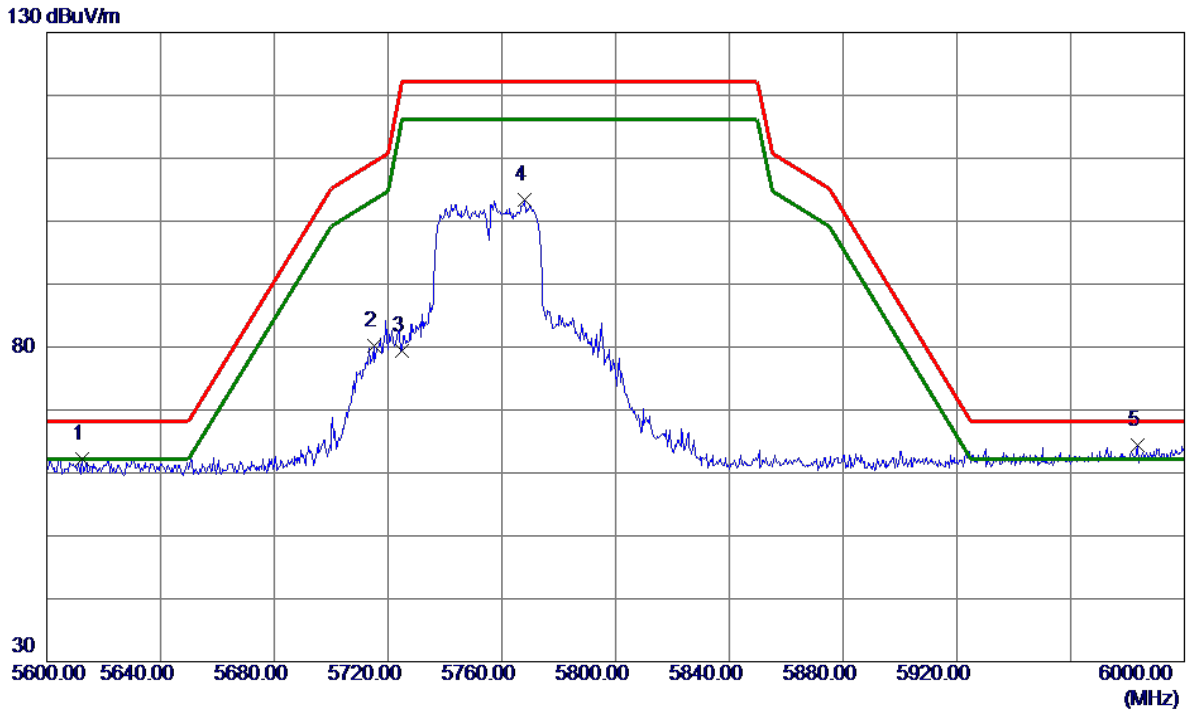
Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11510.0000	48.97	2.95	51.92	74.00	-22.08	Peak	
2 *	11514.1350	43.76	2.94	46.70	54.00	-7.30	AVG	

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

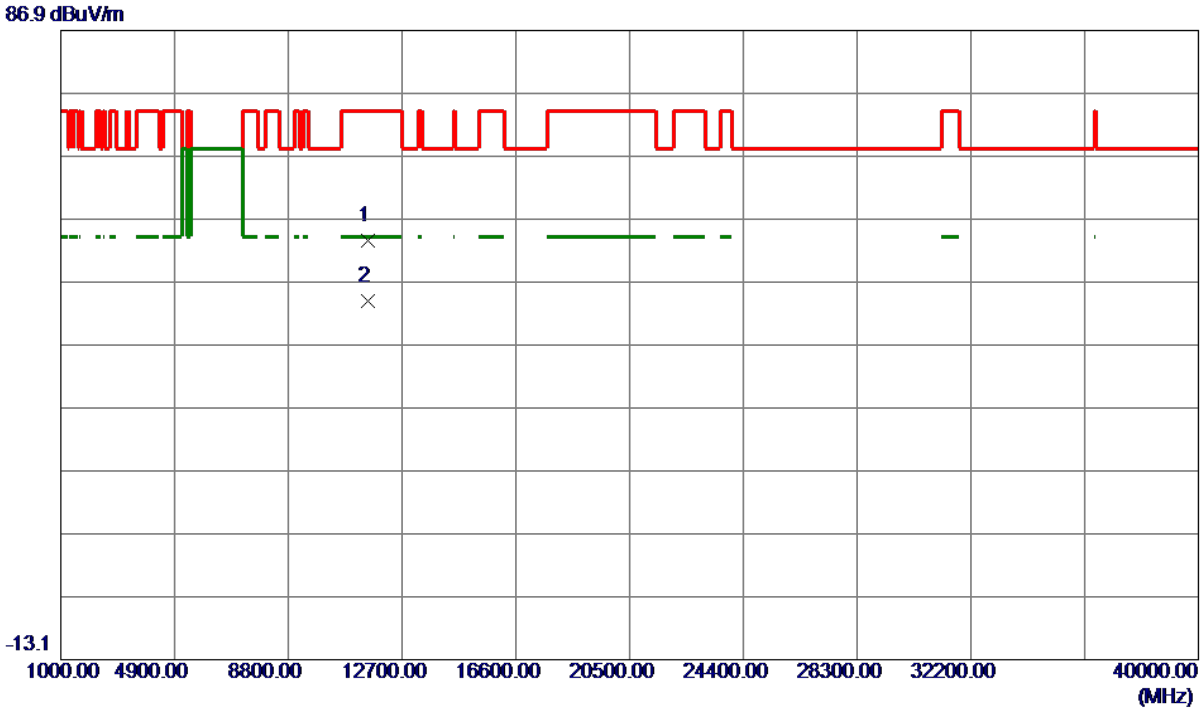
Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5612.4000	23.91	38.35	62.26	68.20	-5.94	Peak	
2	5715.0000	41.73	38.46	80.19	109.40	-29.21	Peak	
3	5725.0000	40.81	38.50	79.31	122.20	-42.89	Peak	
4	5768.0000	64.77	38.66	103.43	122.20	-18.77	Peak	
5 *	5983.4000	25.21	39.22	64.43	68.20	-3.77	Peak	

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

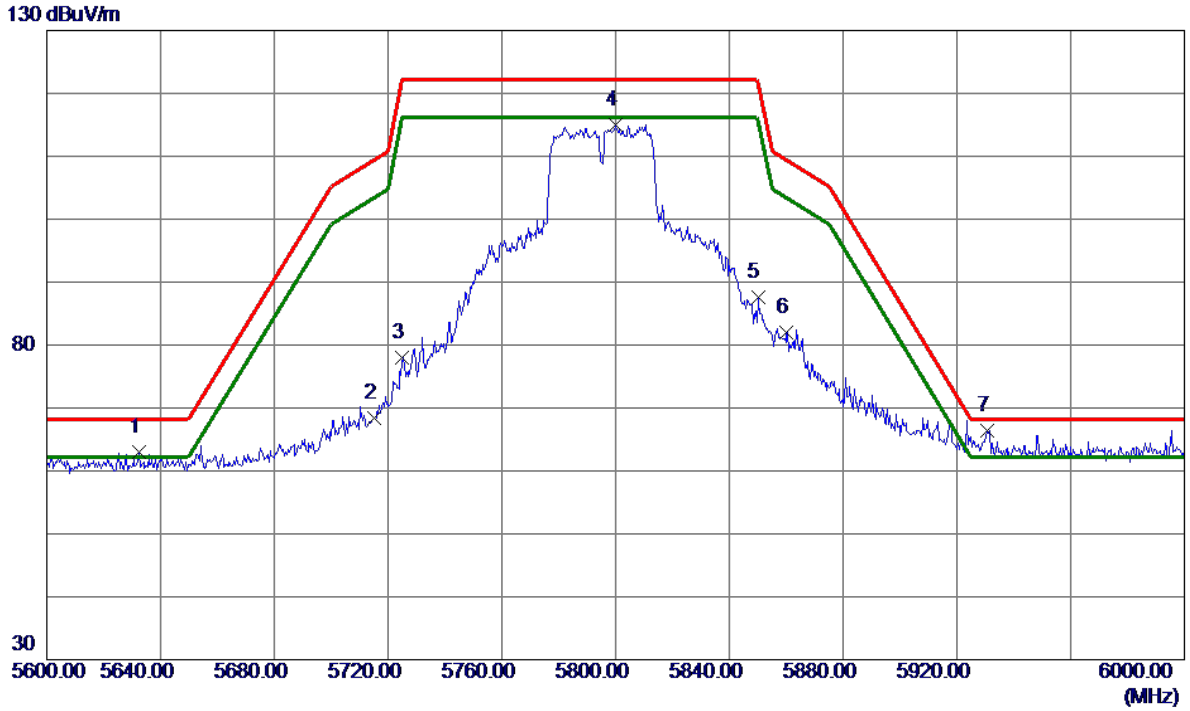
Test Mode	UNII-3_TX AC(VHT40) Mode 5755 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11510.0000	50.55	2.95	53.50	74.00	-20.50	Peak	
2 *	11512.8520	41.01	2.95	43.96	54.00	-10.04	AVG	

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

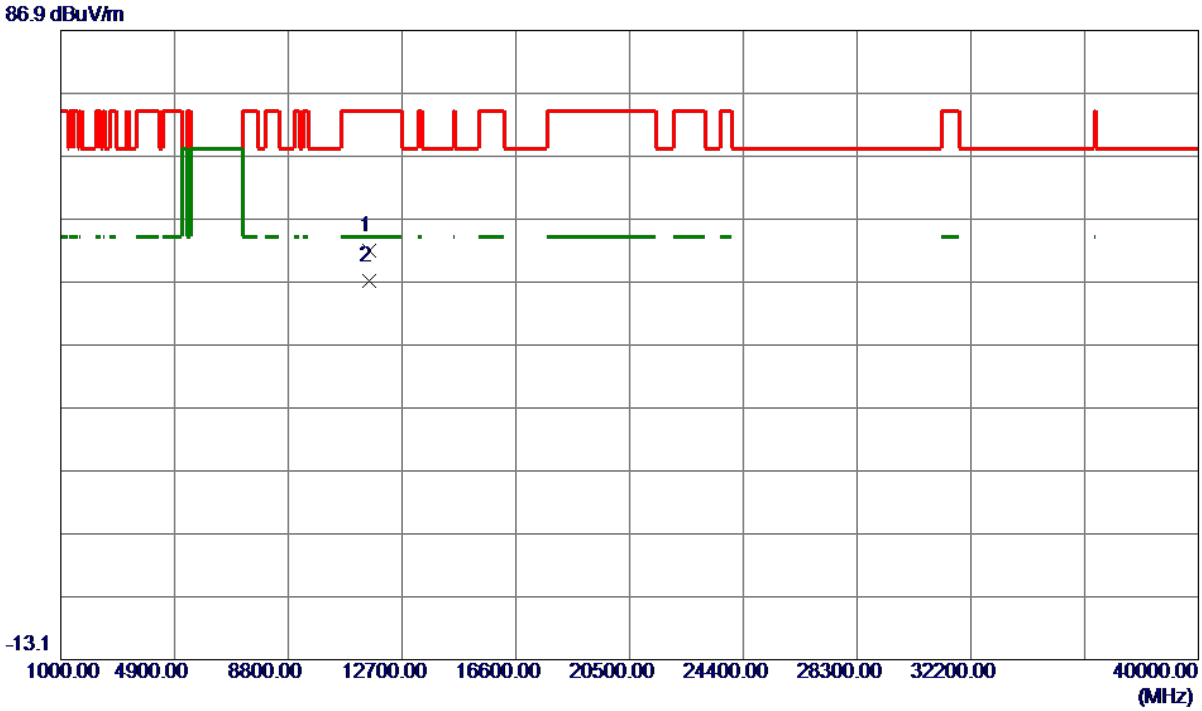
Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5632.4000	24.72	38.36	63.08	68.20	-5.12	Peak	
2	5715.0000	29.90	38.46	68.36	109.40	-41.04	Peak	
3	5725.0000	39.55	38.50	78.05	122.20	-44.15	Peak	
4	5799.8000	76.20	38.78	114.98	122.20	-7.22	Peak	
5	5850.0000	48.68	38.91	87.59	122.20	-34.61	Peak	
6	5860.0000	43.12	38.94	82.06	109.40	-27.34	Peak	
7 *	5930.6000	27.30	39.11	66.41	68.20	-1.79	Peak	

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

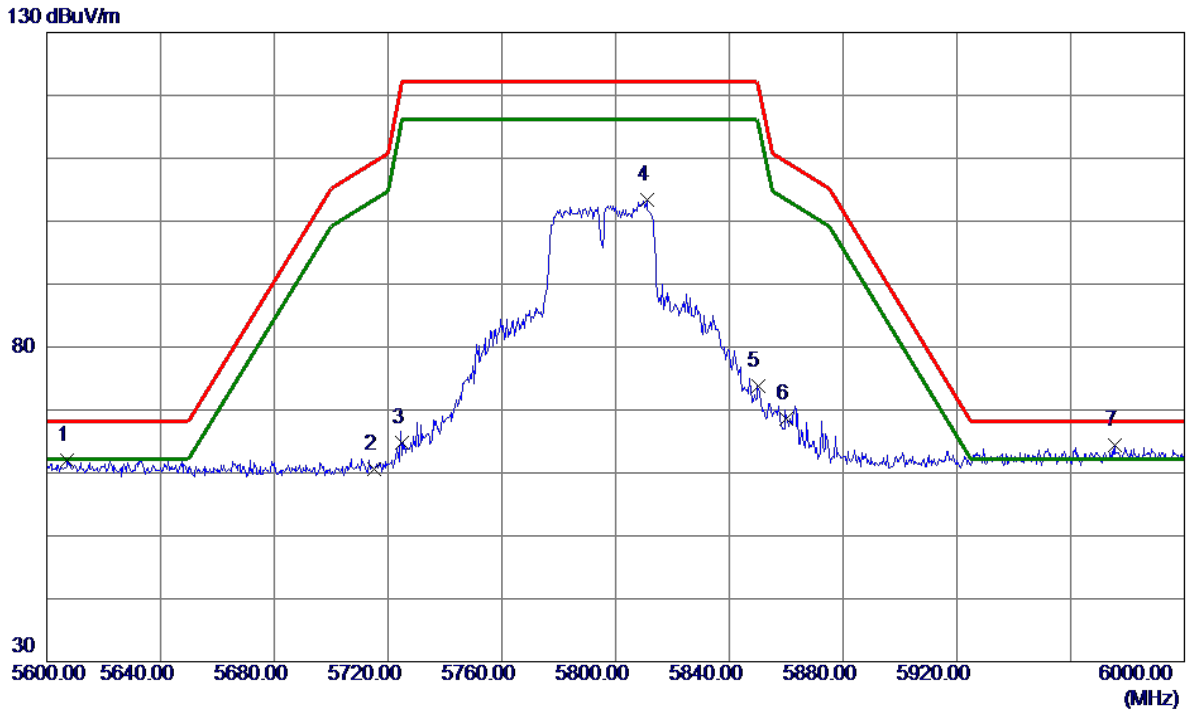
Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11590.0000	49.20	2.75	51.95	74.00	-22.05	Peak	
2 *	11594.1400	44.27	2.74	47.01	54.00	-6.99	AVG	

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

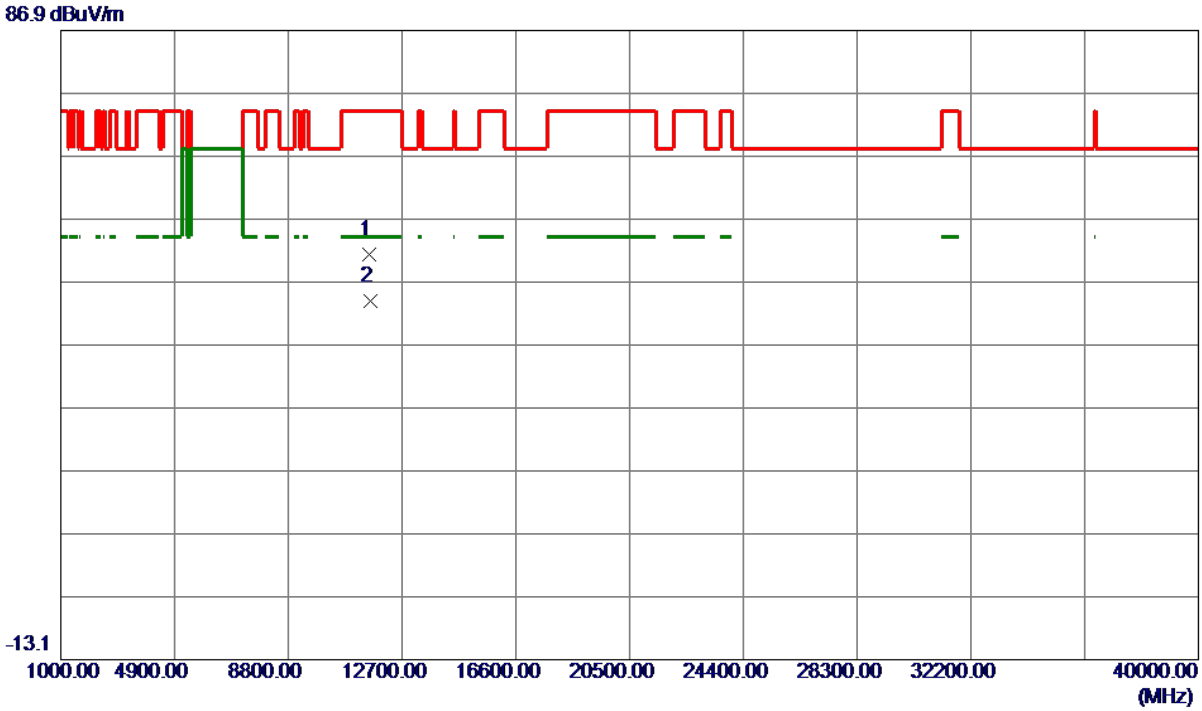
Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5607.2000	23.66	38.34	62.00	68.20	-6.20	Peak	
2	5715.0000	22.09	38.46	60.55	109.40	-48.85	Peak	
3	5725.0000	26.37	38.50	64.87	122.20	-57.33	Peak	
4	5811.0000	64.56	38.81	103.37	122.20	-18.83	Peak	
5	5850.0000	34.80	38.91	73.71	122.20	-48.49	Peak	
6	5860.0000	29.58	38.94	68.52	109.40	-40.88	Peak	
7 *	5975.4000	25.22	39.20	64.42	68.20	-3.78	Peak	

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

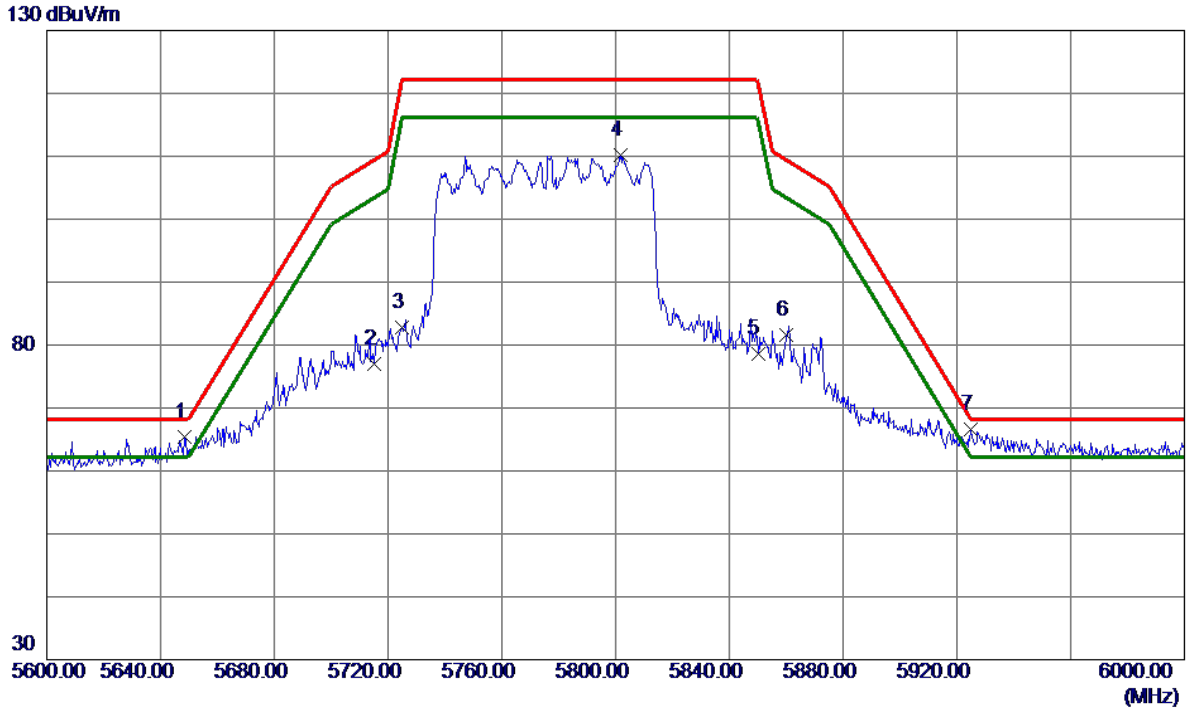
Test Mode	UNII-3_TX AC(VHT40) Mode 5795 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11590.0000	48.50	2.75	51.25	74.00	-22.75	Peak	
2 *	11595.8300	41.11	2.73	43.84	54.00	-10.16	AVG	

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

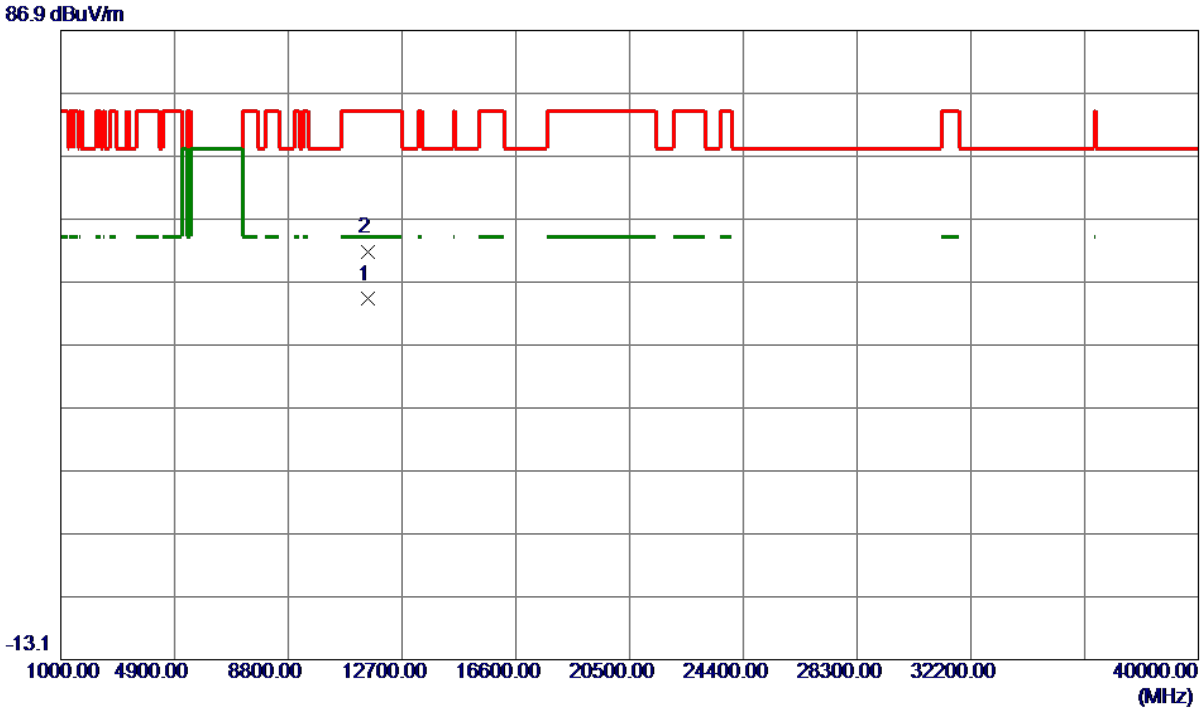
Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5648.6000	26.94	38.37	65.31	68.20	-2.89	Peak	
2	5715.0000	38.48	38.46	76.94	109.40	-32.46	Peak	
3	5725.0000	44.35	38.50	82.85	122.20	-39.35	Peak	
4	5801.6000	71.39	38.78	110.17	122.20	-12.03	Peak	
5	5850.0000	39.73	38.91	78.64	122.20	-43.56	Peak	
6	5860.0000	42.64	38.94	81.58	109.40	-27.82	Peak	
7 *	5925.0000	27.44	39.10	66.54	68.20	-1.66	Peak	

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

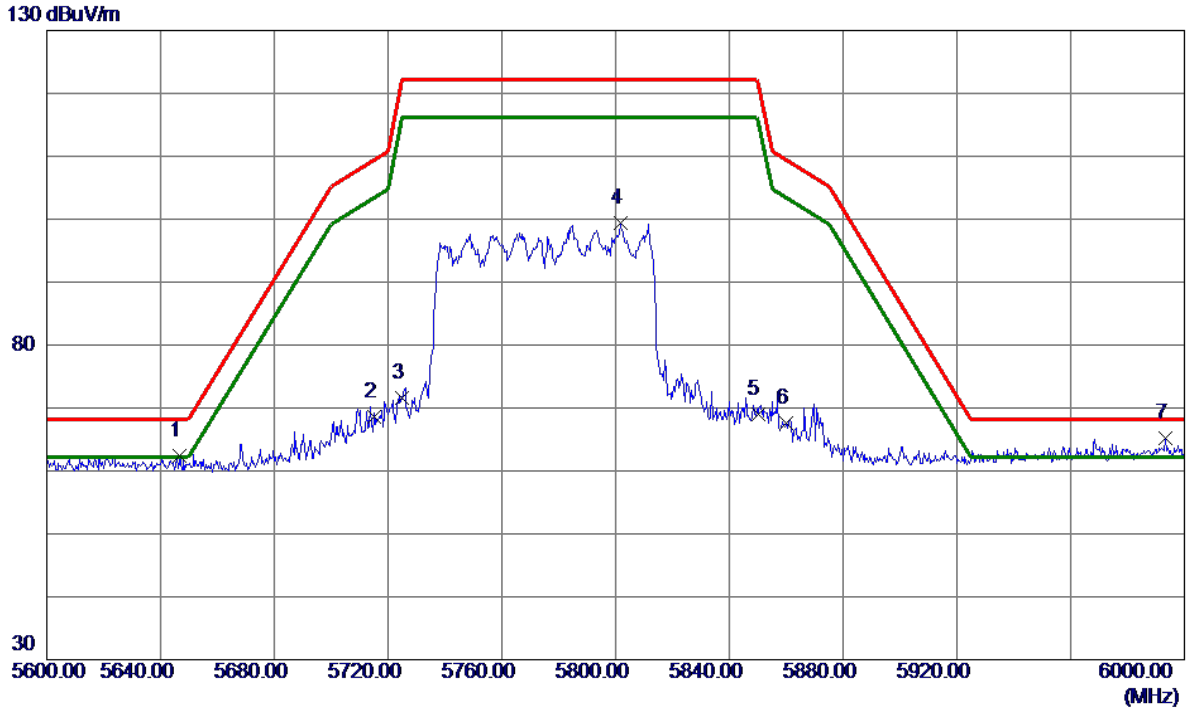
Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11518.5640	41.27	2.93	44.20	54.00	-9.80	AVG	
2	11550.0000	48.81	2.85	51.66	74.00	-22.34	Peak	

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

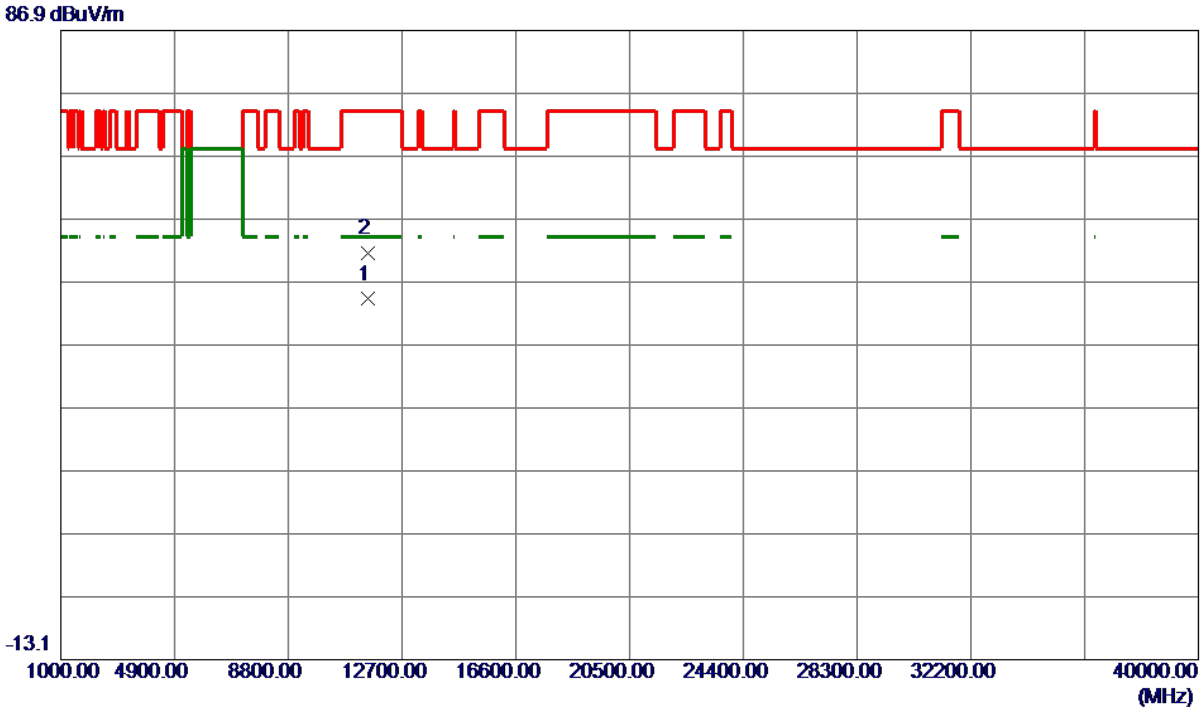
Test Mode	UNII-3_TX AC(VHT80) Mode 5775 MHz	Polarization	Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5646.8000	23.96	38.37	62.33	68.20	-5.87	Peak	
2	5715.0000	30.20	38.46	68.66	109.40	-40.74	Peak	
3	5725.0000	33.12	38.50	71.62	122.20	-50.58	Peak	
4	5801.6000	60.70	38.78	99.48	122.20	-22.72	Peak	
5	5850.0000	30.11	38.91	69.02	122.20	-53.18	Peak	
6	5860.0000	28.60	38.94	67.54	109.40	-41.86	Peak	
7 *	5993.4000	25.90	39.24	65.14	68.20	-3.06	Peak	

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

Test Mode	UNII-3_TX AC(VHT80) Mode 5775 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 *	11510.0000	41.25	2.95	44.20	54.00	-9.80	AVG	
2	11550.0000	48.57	2.85	51.42	74.00	-22.58	Peak	

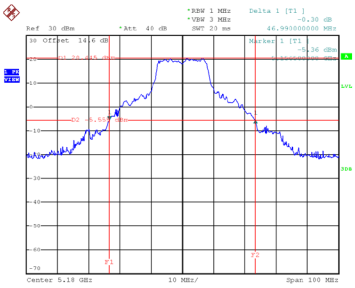
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	46.990	32.300
40	5200	51.800	36.400
48	5240	37.288	19.800

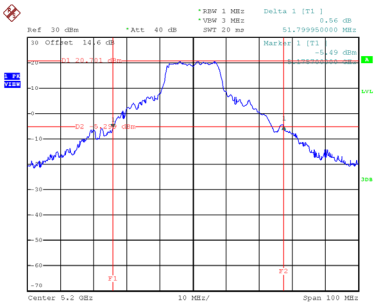
CH36



Date: 7.JUN.2021 22:26:16

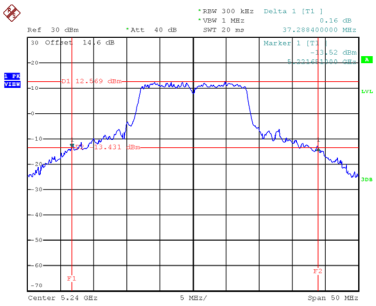
CH40

26 dB Bandwidth

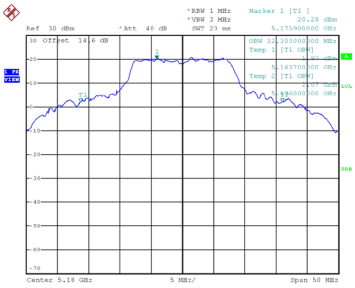


Date: 7.JUN.2021 22:44:40

CH48

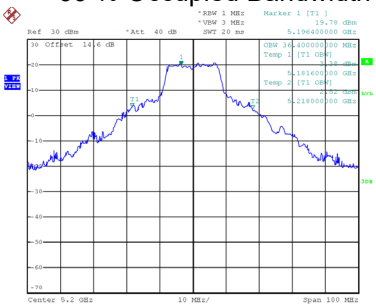


Date: 8.JUN.2021 19:16:00

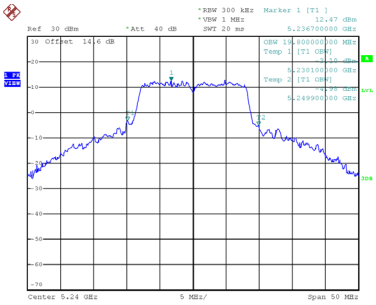


Date: 7.JUN.2021 22:25:04

99 % Occupied Bandwidth



Date: 7.JUN.2021 22:43:53

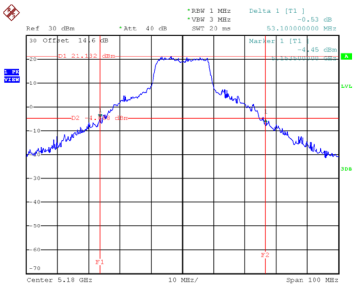


Date: 8.JUN.2021 19:15:21

Test Mode	UNII-1_TX AC(VHT20) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
36	5180	53.100	36.800
40	5200	52.590	35.600
48	5240	39.390	19.500

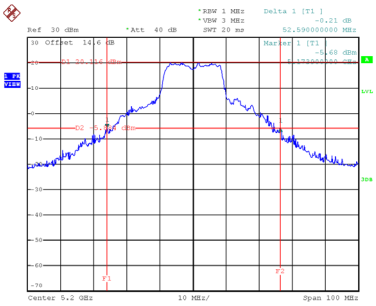
CH36



Date: 7.JUN.2021 23:31:30

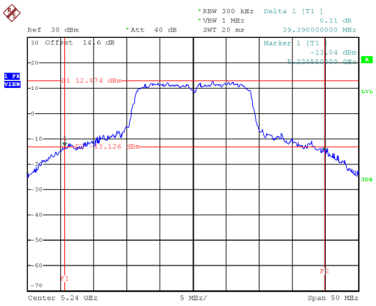
CH40

26 dB Bandwidth

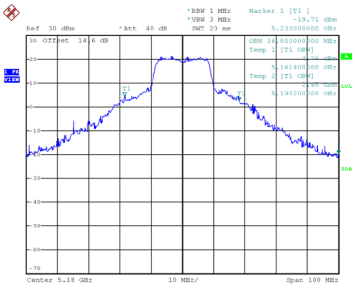


Date: 7.JUN.2021 23:36:53

CH48

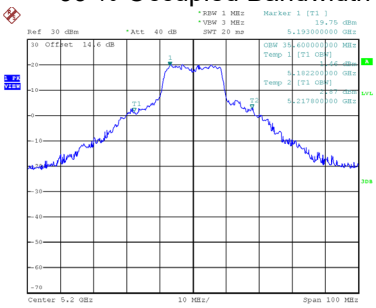


Date: 8.JUN.2021 19:22:40



Date: 7.JUN.2021 23:30:54

99 % Occupied Bandwidth



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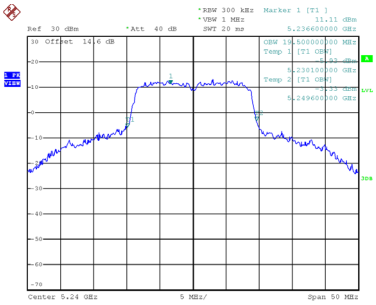
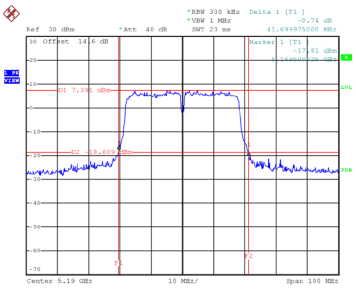


Date: 8.JUN.2021 19:22:13

Test Mode	UNII-1_TX AC(VHT40) Mode

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
38	5190	41.700	37.000
46	5230	79.790	39.600

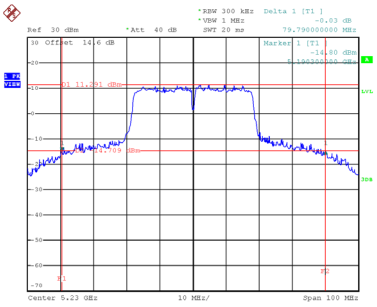
CH38



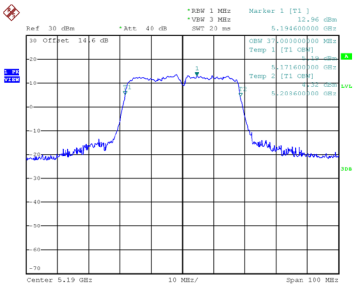
Date: 10.JUN.2021 19:50:58

CH46

26 dB Bandwidth

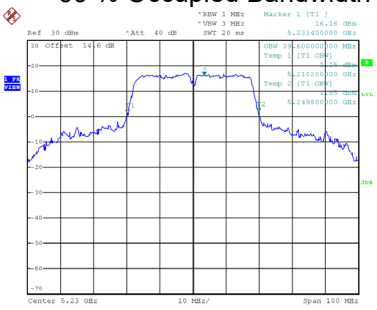


Date: 10.JUN.2021 19:52:36



Date: 10.JUN.2021 19:50:12

99 % Occupied Bandwidth



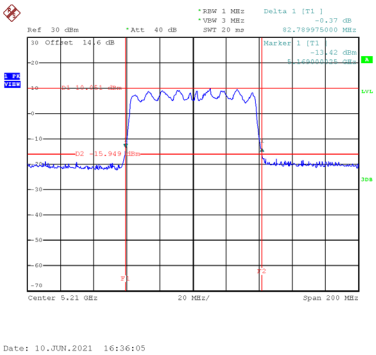
Date: 10.JUN.2021 19:52:13

Test Mode	UNII-1_TX AC(VHT80) Mode

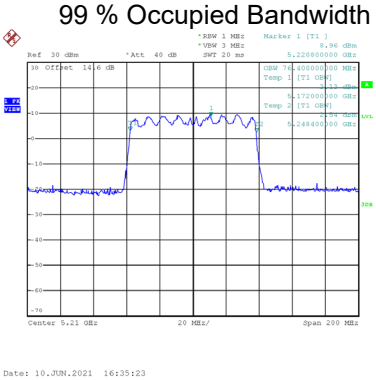
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)
42	5210	82.790	76.400

CH42

26 dB Bandwidth



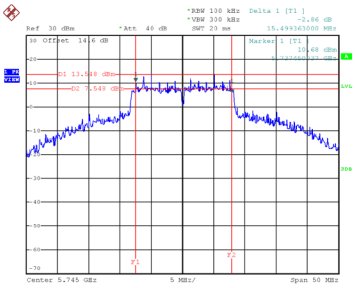
99 % Occupied Bandwidth



Test Mode	UNII-3_TX A Mode

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Occupied Bandwidth (MHz)	6 dB Bandwidth Min. Limit (MHz)	Result
149	5745	15.499	39.400	0.5	Complies
157	5785	16.150	37.800	0.5	Complies
165	5825	16.390	39.600	0.5	Complies

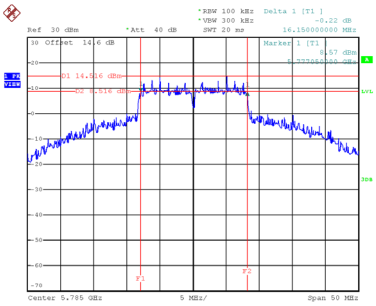
CH149



Date: 7.JUN.2021 22:49:04

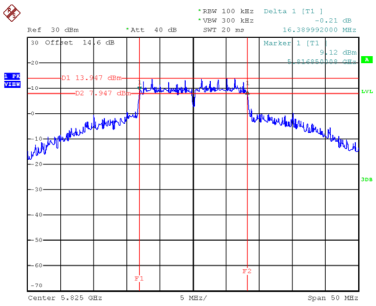
CH157

6 dB Bandwidth



Date: 7.JUN.2021 22:52:34

CH165



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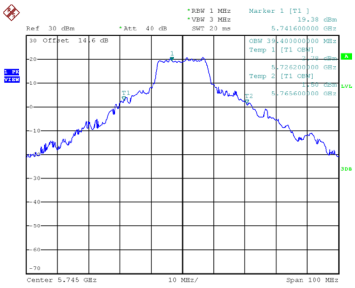

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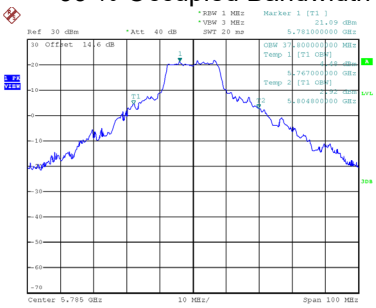
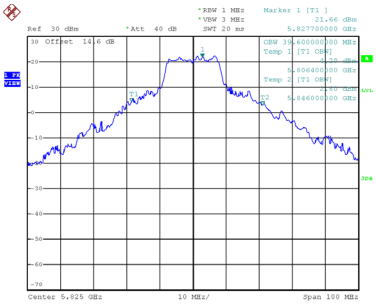
99 % Occupied Bandwidth



Date: 7.JUN.2021 22:57:53



Date: 7.JUN.2021 22:57:20