

FCC Radio Test Report

FCC ID: V7TMESH12

This report concerns: Original Grant

Project No. : 2003C093
Equipment : AC2100 Tri-band Whole Home Mesh WiFi System
Brand Name : Tenda
Test Model : Mesh12
Series Model : MW12, MW12a, MW12c, CM12
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Date of Receipt : Mar. 12, 2020
Date of Test : Mar. 19, 2020 ~ Apr. 09, 2020
Issued Date : Jun. 28, 2020
Report Version : R00
Test Sample : Engineering Sample No.: DG2020031239 for conducted, DG20200317171 for radiated.
Standard(s) : FCC Part15, Subpart E(15.407)
 ANSI C63.10-2013
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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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. 28, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)				
Standard(s) Section	Test Item	Test Result	Judgement	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)	Spectrum 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
☒ Access point 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.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

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)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9kHz ~ 30MHz	V	3.79
		9kHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	H	4.14
		200MHz ~ 1,000MHz	V	4.62
		200MHz ~ 1,000MHz	H	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18GHz ~ 26.5GHz	-	3.62
		26.5GHz ~ 40GHz	-	4.00

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	25°C	55%	AC 120V/60Hz AC 240V/60Hz	Sheldon Ou
Radiated Emissions -9K-30MHz	25°C	60%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions -30 MHz to 1GHz	24°C	68%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions -Above 1000 MHz	24°C	68%	AC 120V/60Hz	Sheldon Ou
Spectrum Bandwidth	25°C	60%	DC 12V	Hayden Chen
Maximum Output Power	25°C	60%	DC 12V	Laughing Zhang
Power Spectral Density	25°C	60%	DC 12V	Hayden Chen
Frequency Stability	Normal & Extreme	60%	Normal & Extreme	Hayden Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC2100 Tri-band Whole Home Mesh WiFi System
Brand Name	Tenda
Test Model	Mesh12
Series Model	MW12, MW12a, MW12c, CM12
Model Difference(s)	Only differ in model name.
Power Source	DC Voltage supplied from AC adapter. Model: BN067-A18012U
Power Rating	I/P: 100-240V~ 50/60Hz 0.6A O/P: 12V  1.5A
Operation Frequency	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz
Modulation Type	OFDM
Bit Rate of Transmitter	Up to 1733.2 Mbps
Maximum Conducted Output Power for UNII-1_Non-Beamforming	IEEE 802.11a: 18.57 dBm (0.0719 W) IEEE 802.11n (HT20): 20.50 dBm (0.1122 W) IEEE 802.11n (HT40): 23.90 dBm (0.2455 W) IEEE 802.11ac (VHT20): 20.43 dBm (0.1104 W) IEEE 802.11ac (VHT40): 19.84 dBm (0.0964 W) IEEE 802.11ac (VHT80): 18.18 dBm (0.0658 W)
Maximum Conducted Output Power for UNII-3_Non-Beamforming	IEEE 802.11a: 29.93 dBm (0.9840 W) IEEE 802.11n (HT20): 29.78 dBm (0.9506 W) IEEE 802.11n (HT40): 29.75 dBm (0.9440 W) IEEE 802.11ac (VHT20): 29.68 dBm (0.9290 W) IEEE 802.11ac (VHT40): 29.71 dBm (0.9354 W) IEEE 802.11ac (VHT80): 26.69 dBm (0.4667 W)
Maximum Conducted Output Power for UNII-1_Beamforming	IEEE 802.11n (HT20): 20.50 dBm (0.1122 W) IEEE 802.11n (HT40): 23.94 dBm (0.2477 W) IEEE 802.11ac (VHT20): 20.23 dBm (0.1054 W) IEEE 802.11ac (VHT40): 19.78 dBm (0.0951 W) IEEE 802.11ac (VHT80): 19.24 dBm (0.0839 W)
Maximum Conducted Output Power for UNII-3_Beamforming	IEEE 802.11n (HT20): 25.93 dBm (0.3917 W) IEEE 802.11n (HT40): 29.37 dBm (0.8650 W) IEEE 802.11ac (VHT20): 25.84 dBm (0.3837 W) IEEE 802.11ac (VHT40): 25.68 dBm (0.3698 W) IEEE 802.11ac (VHT80): 25.76 dBm (0.3767 W)

Note:

- 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	Internal	N/A	4
2	N/A	N/A	Internal	N/A	4

Note: This EUT supports CDD, and all antennas have the same gain, so,

- For Non Beamforming, Directional gain= $G_{ANT} + \text{Array Gain}$.
For output power measurements, Array Gain=0 ($N_{ANT} \leq 4$), so the Directional gain=4.
For power spectral density measurements, Array Gain= $10\log(N_{ANT}/N_{SS})$ dB, so the Directional gain= $4 + 10\log(2/1) = 7.01$. So, the UNII-1 power spectral density limit is $17 - (7.01 - 6) = 15.99$, the UNII-3 power spectral density limit is $30 - (7.01 - 6) = 28.99$.
- For Beamforming, Beamforming Gain: 3dB. So the Directional gain= $3 + 4 = 7$. So the output power limit is $30 - (7 - 6) = 29$.

4. Table for Antenna Configuration:

Non Beamforming:

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

Beamforming:

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

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 / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 13	TX N(HT40) Mode / CH151 (UNII-3)

Following mode(s) as (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 A Mode / CH149 (UNII-3)

Radiated emissions test - Below 1GHz	
Final Test Mode	Description
Mode 13	TX A Mode / CH149 (UNII-3)

Radiated emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 5	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 7	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 8	TX AC (VHT80) Mode / CH155 (UNII-3)

Maximum Output Power test_Non Beamforming	
Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

Maximum Output Power test_Beamforming	
Test Mode	Description
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)

Conducted test	
Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 10	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 12	TX AC (VHT80) Mode / CH58 (UNII-2A)

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11a is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, 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) The measurements for Power were tested, the Non Beamforming and Beamforming were recorded in the report. The worst case were Non Beamforming for IEEE 802.11a mode, IEEE 802.11ac(VHT20) mode, IEEE 802.11ac(VHT40) mode and IEEE 802.11ac(VHT80), only the worst case were documented for other test items.
- (4) For radiated emissions, the TX WLAN 2.4G N20 Mode 2437 + WLAN 5G a Mode 5745MHz was found the worst case of simultaneous transmission and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

Non-Beamforming

UNII-1			
Test Software	MP-v3.6		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	46	49	49
IEEE 802.11n (HT20)	42	45	45
IEEE 802.11ac (VHT20)	45	45	45
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	37	45	
IEEE 802.11ac (VHT40)	37	45	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	34		

UNII-3			
Test Software	MP-v3.6		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	84	88	88
IEEE 802.11n (HT20)	84	88	88
IEEE 802.11ac (VHT20)	84	88	89
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	88	88	
IEEE 802.11ac (VHT40)	89	90	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	67		

Beamforming

UNII-1			
Test Software	MP-v3.6		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11n (HT20)	45	45	45
IEEE 802.11ac (VHT20)	45	45	45
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	45	45	
IEEE 802.11ac (VHT40)	45	45	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	45		

UNII-3			
Test Software	MP-v3.6		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11n (HT20)	66	66	66
IEEE 802.11ac (VHT20)	66	66	66
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	67	67	
IEEE 802.11ac (VHT40)	67	68	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	69		

2.4 DUTY CYCLE

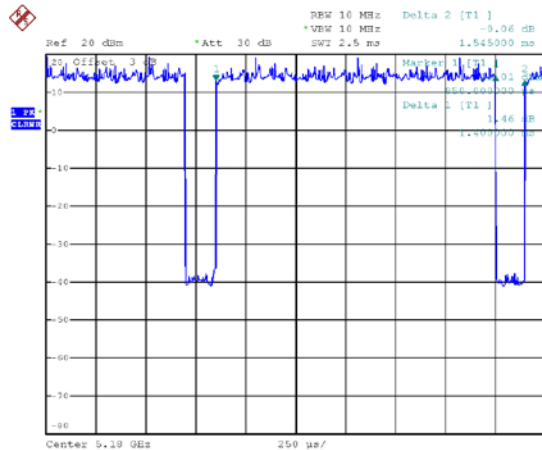
If duty cycle is $\geq 98\%$, duty factor is not required.

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

The output power = measured power + duty factor.

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

IEEE 802.11a

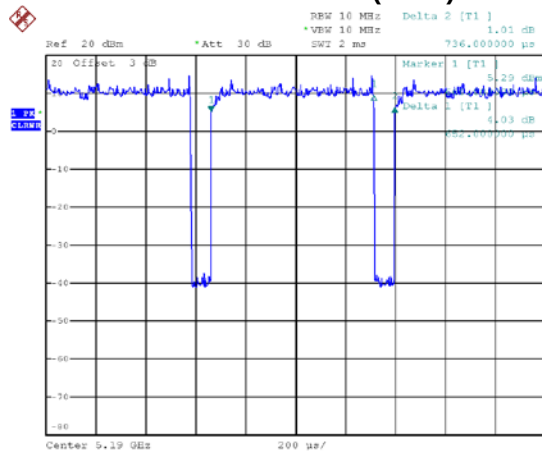


Date: 16.MAR.2020 13:51:18

Duty cycle = 1.400 ms / 1.545 ms = 90.61%

Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.43$

IEEE 802.11n (HT40)

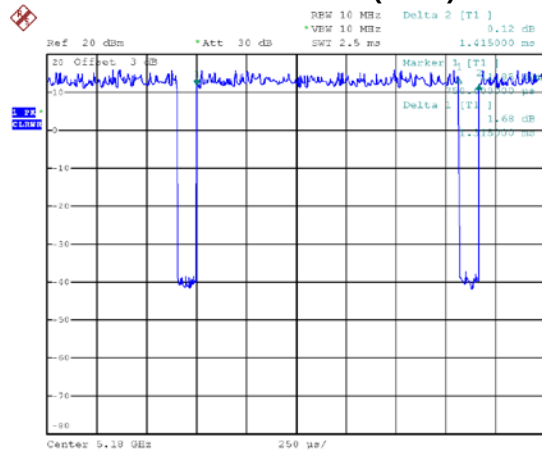


Date: 16.MAR.2020 13:58:35

Duty cycle = 0.652 ms / 0.736 ms = 88.59%

Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.53$

IEEE 802.11n (HT20)

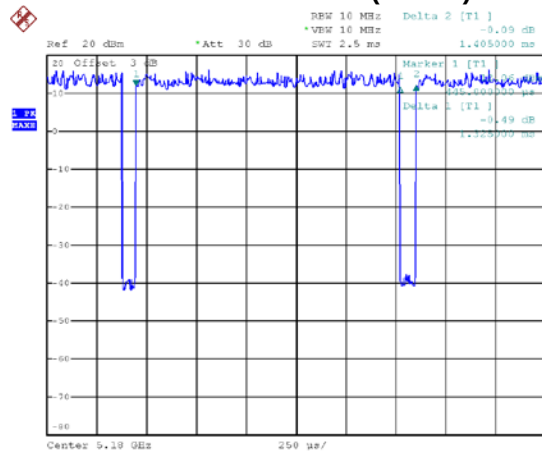


Date: 16.MAR.2020 13:51:57

Duty cycle = 1.315 ms / 1.415 ms = 92.93%

Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.32$

IEEE 802.11ac (VHT20)

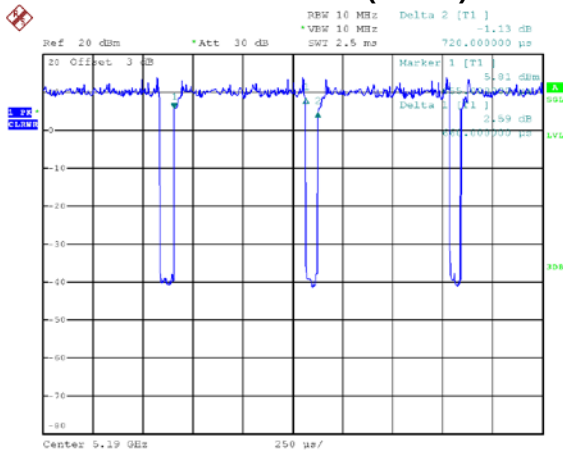


Date: 16.MAR.2020 13:53:48

Duty cycle = 1.325 ms / 1.405 ms = 94.31%

Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.25$

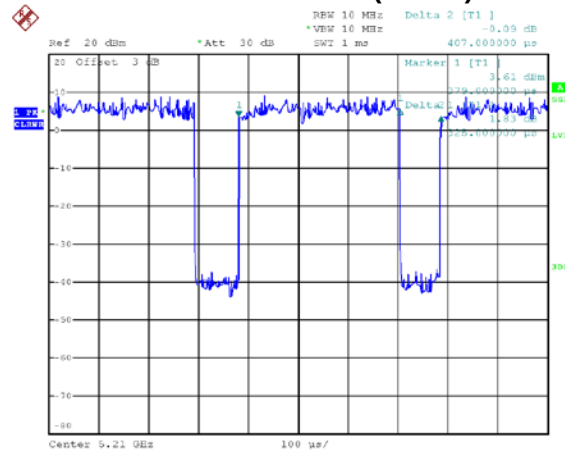
IEEE 802.11ac (VHT40)



Date: 16.MAR.2020 13:59:50

Duty cycle = 0.660 ms / 0.720 ms = 91.67%
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.38$

IEEE 802.11ac (VHT80)



Date: 16.MAR.2020 14:03:43

Duty cycle = 0.325 ms / 0.395 ms = 82.28%
 Duty Factor = $10\log(1 / \text{Duty cycle}) = 0.85$

NOTE:

For IEEE 802.11a, IEEE 802.11n (HT20) and 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%).

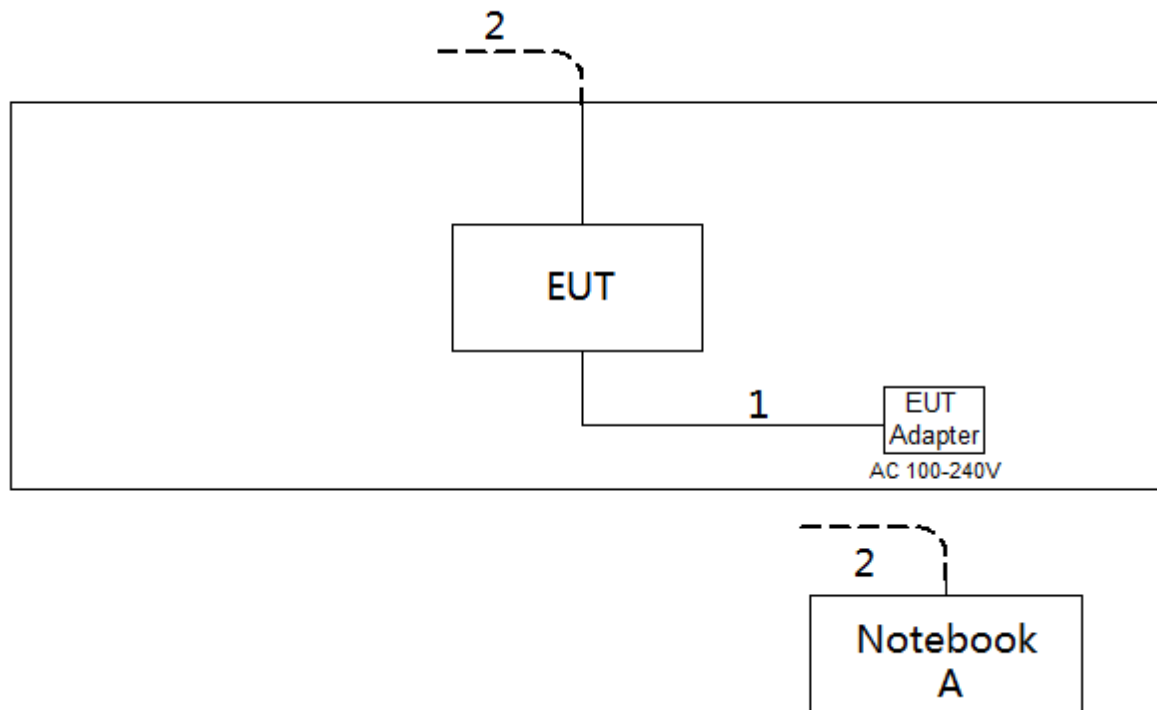
For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

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 3 kHz (Duty cycle < 98%).

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

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

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.2m
2	RJ45 Cable	NO	NO	10m

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.50 - 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.

The following table is the setting of the receiver

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

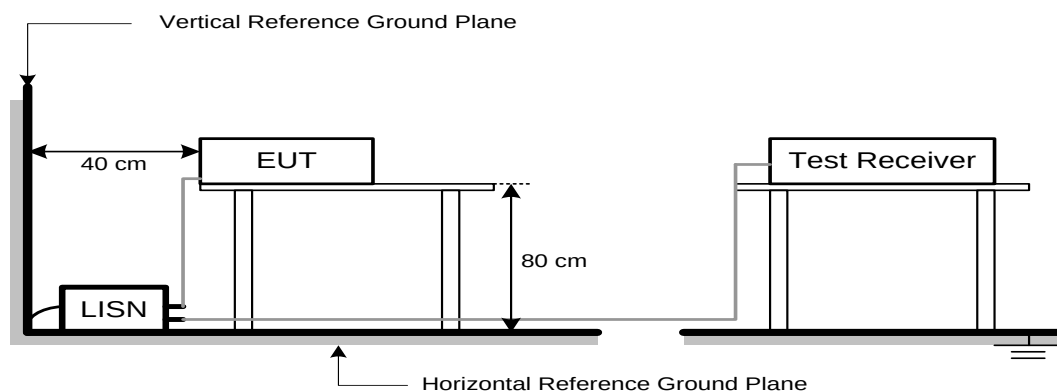
3.2 TEST PROCEDURE

- 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.

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 TEST

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

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5725-5850	-27 NOTE (2)	68.3
	10 NOTE (2)	105.3
	15.6 NOTE (2)	110.9
	27 NOTE (2)	122.3

NOTE:

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

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

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

4.2 TEST PROCEDURE

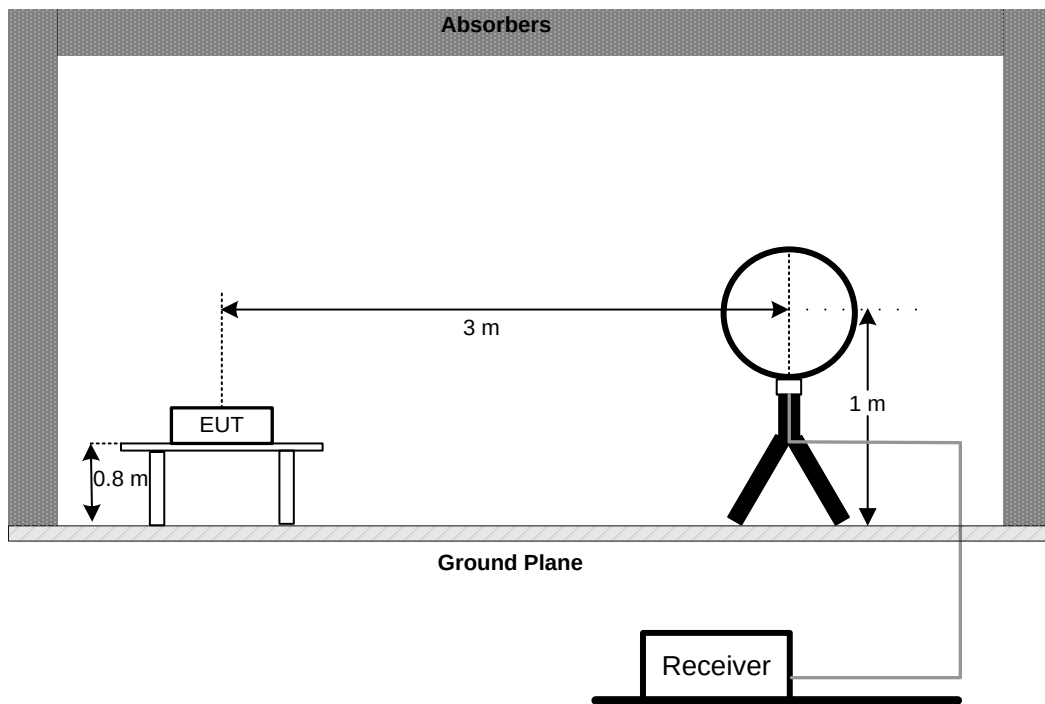
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

4.3 DEVIATION FROM TEST STANDARD

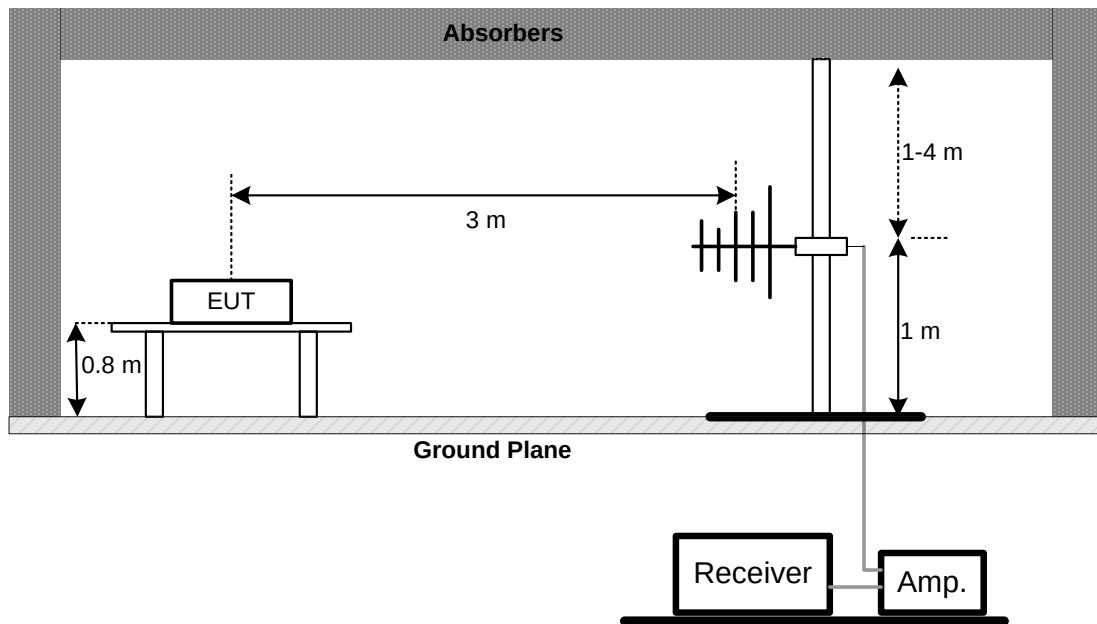
No deviation

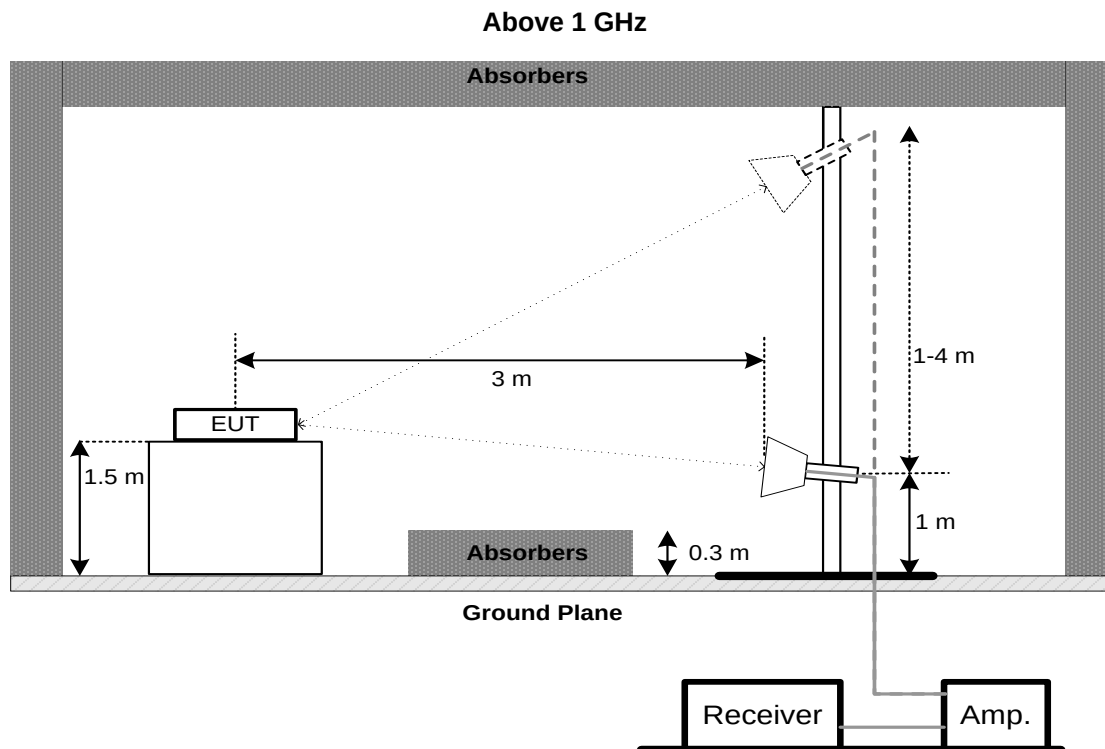
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

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

4.6 TEST RESULTS - 9 KHZ to 30 MHZ

Please refer to the APPENDIX B

Remark:

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

4.7 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHZ

Please refer to the APPENDIX D.

Remark:

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

5. BANDWIDTH TEST

5.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	26 dB Bandwidth	-	5150-5250
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. a. Spectrum Setting:
For UNII-1:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz (Bandwidth 20 MHz) 1 MHz (Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz (Bandwidth 20 MHz) 3 MHz (Bandwidth 40 MHz and 80 MHz)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

For UNII-3:

Spectrum Parameter	Setting
Attenuation	Auto
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 below carrier

5.3 TEST PROCEDURE

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 TEST

6.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Maximum Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (24 dBm)	5150-5250
		1 Watt (30dBm)	5725-5850

Note:

- For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

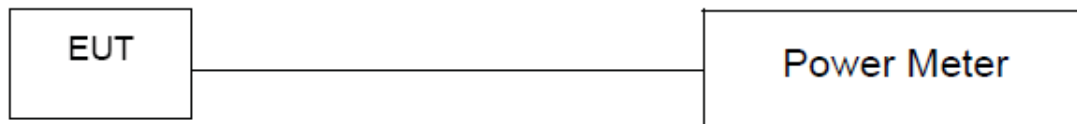
6.2 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- 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 TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
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

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

Spectrum Parameter	Setting
Attenuation	Auto
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

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.
- The value measured with RBW=1 MHz is to be added with $10\log(500 \text{ kHz}/1 \text{ MHz})$ which is -3 dB. For example, if the measured value is +10dBm using RBW=1 MHz (that is +10 dBm/MHz), then the converted value will be +7dBm/500kHz.

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. FREQUENCY STABILITY MEASUREMENT

8.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5150-5250
			5725-5850

8.2 TEST PROCEDURE

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

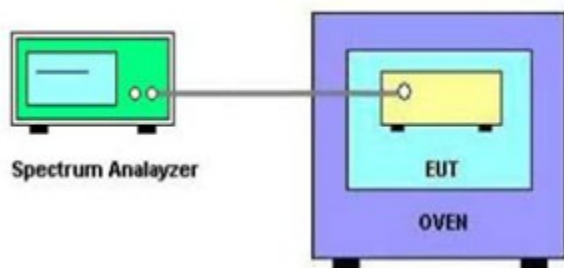
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- User manual temperature is 0°C~40°C.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Feb. 28, 2021
2	LISN	EMCO	3816/2	52765	Mar. 01, 2021
3	TWO-LINE V-NETWORK	R&S	ENV216	101447	May. 19, 2020
4	50Ω Terminator	SHX	TF5-3	15041305	Mar. 01, 2021
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 10, 2021

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1*	Antenna	EM	EM-6876-1	230	Jan. 15, 2022
2	Cable	N/A	RG 213/U	C-102	May 31, 2020
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2021
2	Amplifier	HP	8447D	2944A08742	Mar. 01, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May. 25, 2020
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
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 Guide Antenna	ETS	3115	75846	Mar. 19, 2021
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020
3	Amplifier	Agilent	8449B	3008A02584	Aug. 03, 2020
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Conducted Output Power & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

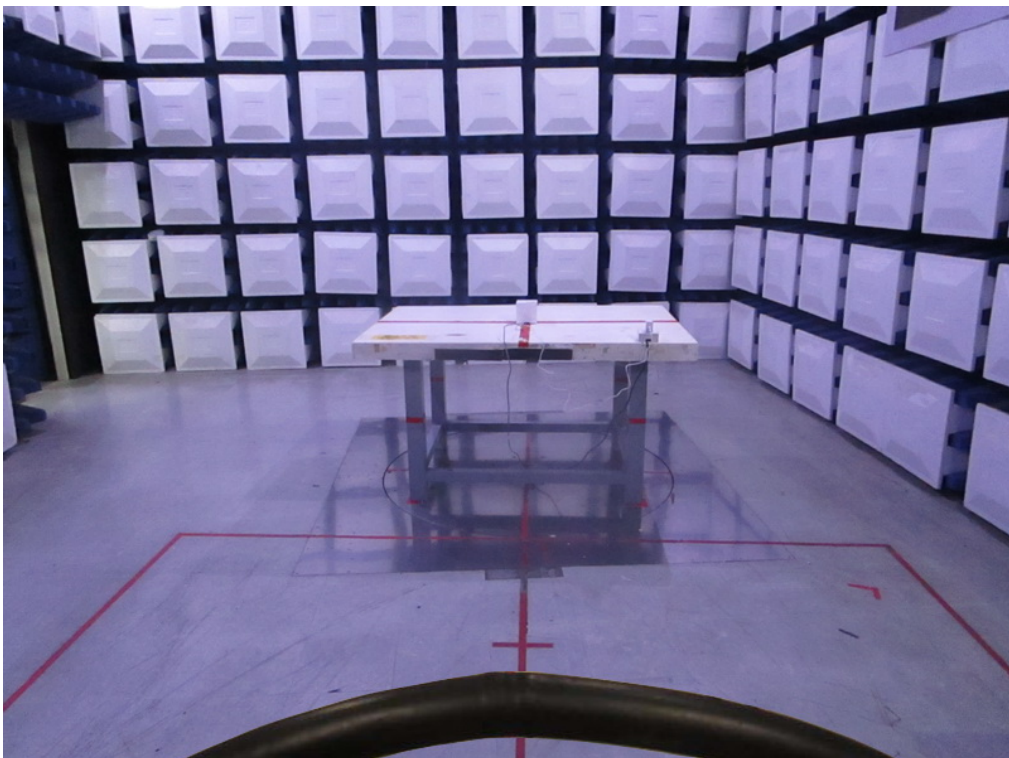
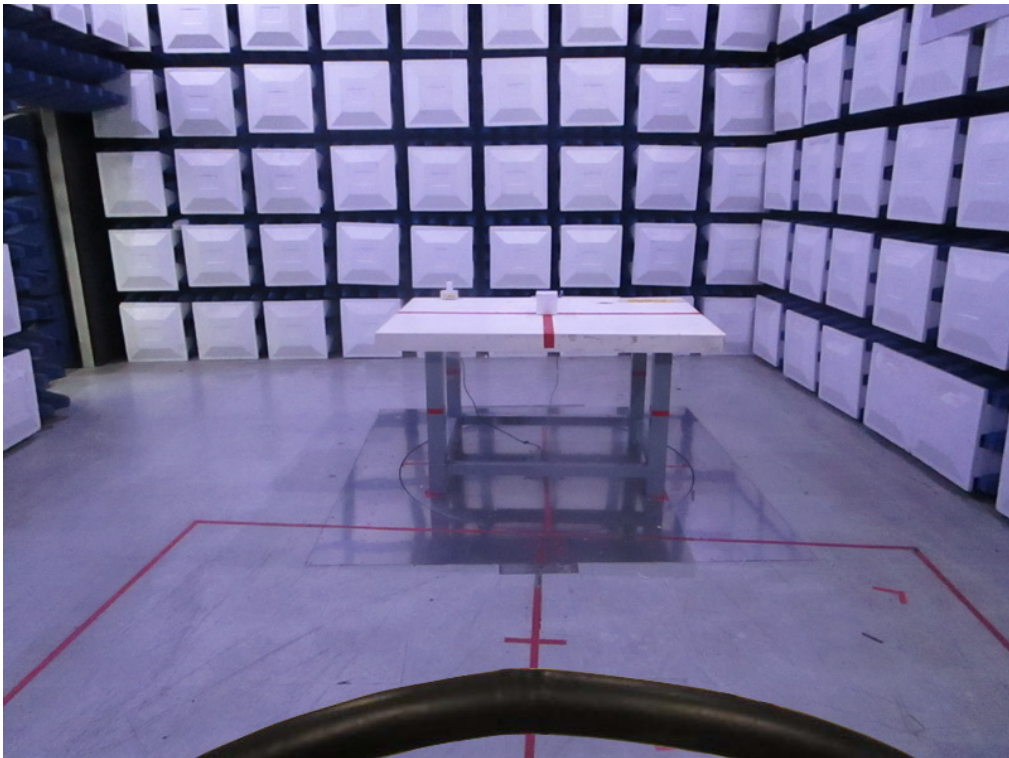
Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020
2	Precision Oven Tester	Bell	BTH-50C	20170306001	Feb. 28, 2021

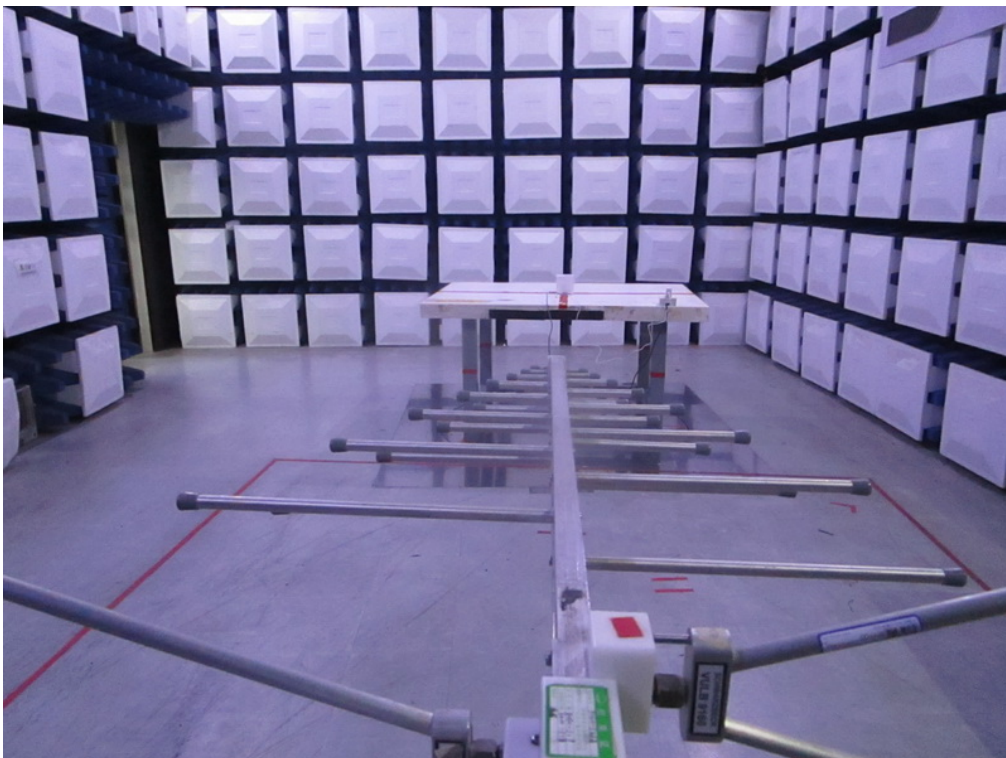
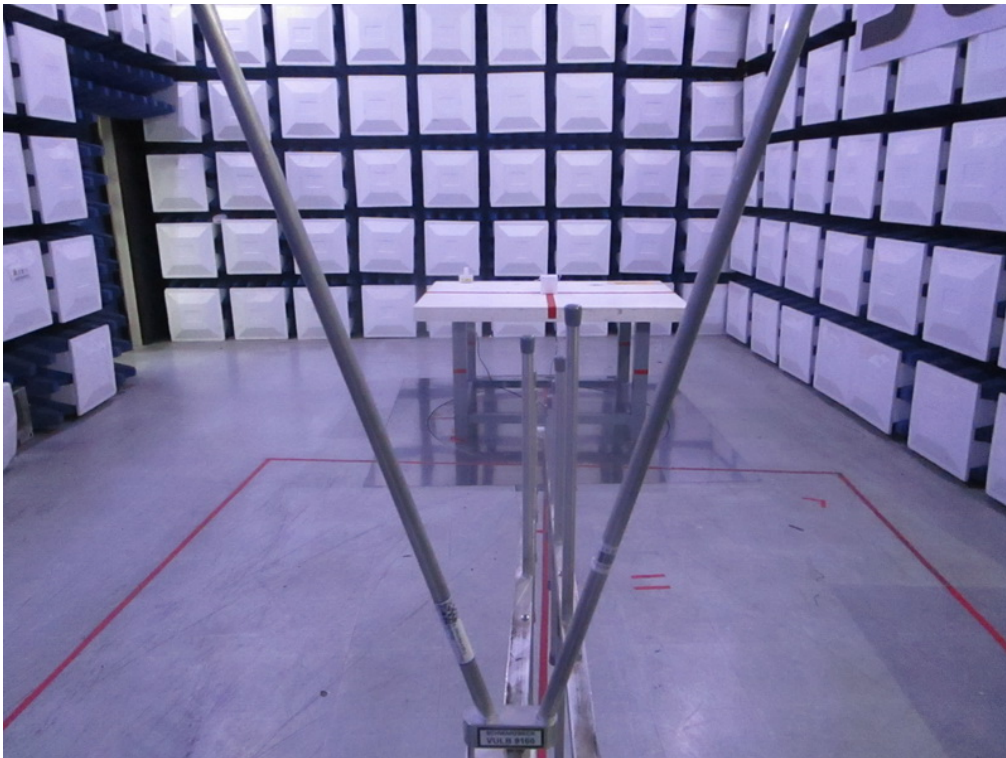
Remark: "N/A" denotes no model name, serial no. or calibration specified.

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

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

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

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

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

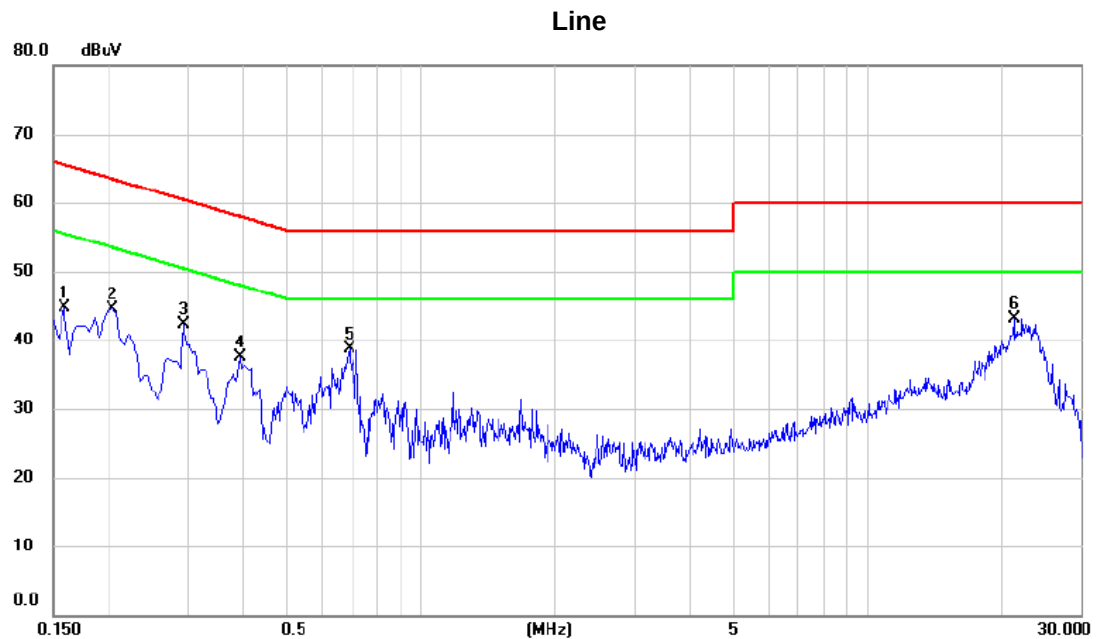
Radiated Emissions Test Photos

Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode:	TX A MODE CHANNEL 149
Test Voltage:	AC 120V/60Hz

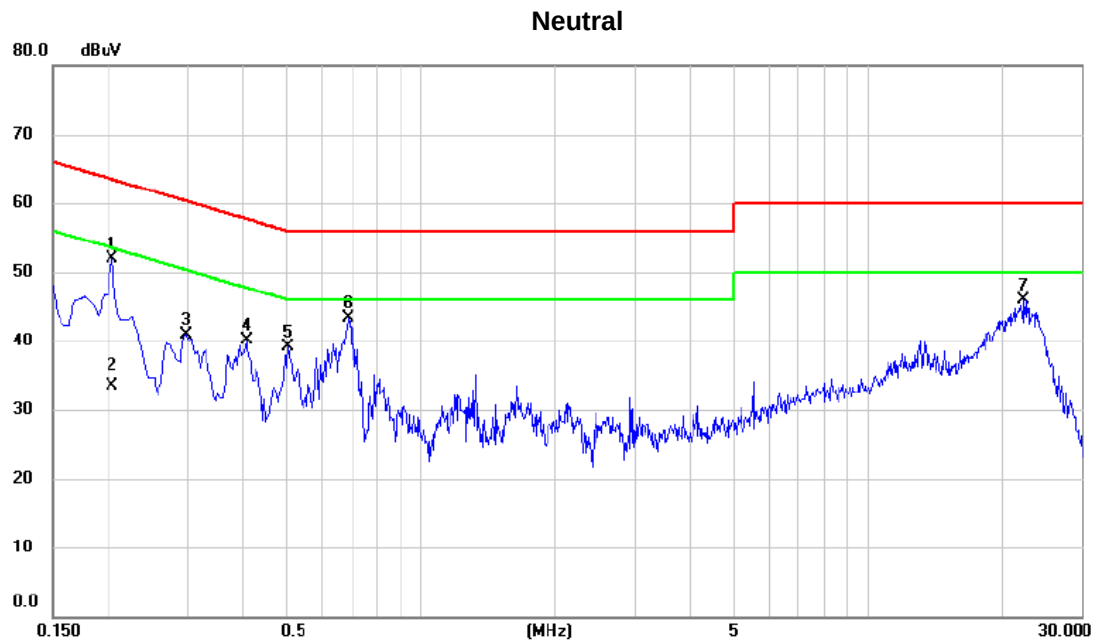


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	34.96	9.82	44.78	65.52	-20.74	peak	
2		0.2040	34.77	9.83	44.60	63.45	-18.85	peak	
3		0.2940	32.45	9.86	42.31	60.41	-18.10	peak	
4		0.3930	27.57	9.89	37.46	58.00	-20.54	peak	
5		0.6900	28.72	9.92	38.64	56.00	-17.36	peak	
6	*	21.2505	31.98	11.20	43.18	60.00	-16.82	peak	

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 A MODE CHANNEL 149
Test Voltage:	AC 120V/60Hz

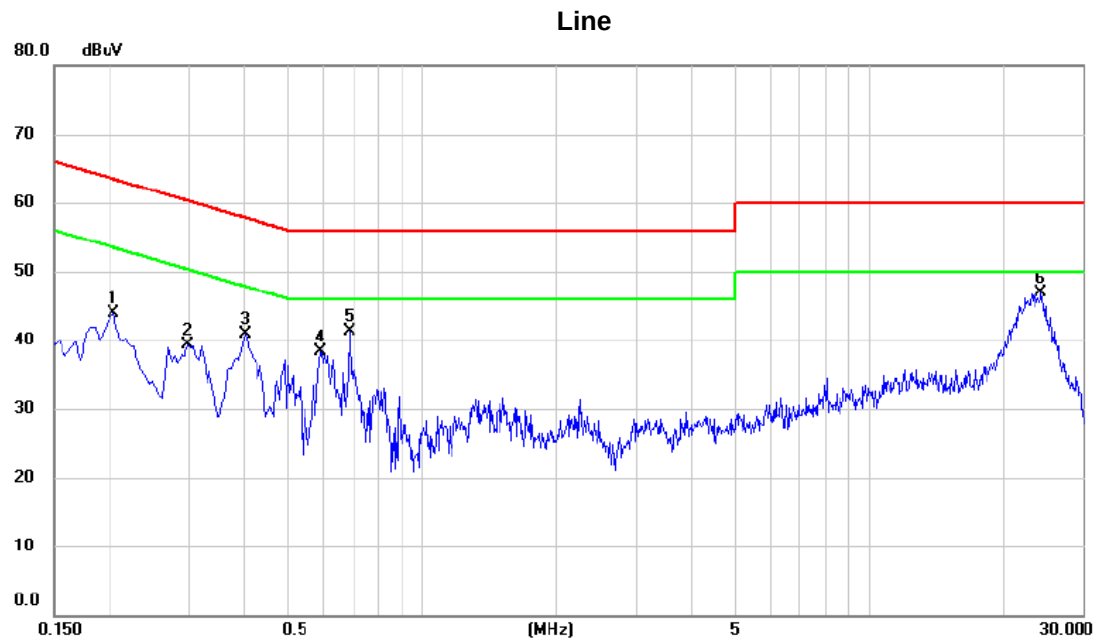


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.2040	41.89	9.92	51.81	63.45	-11.64	peak	
2		0.2040	23.50	9.92	33.42	53.45	-20.03	AVG	
3		0.2985	30.89	9.97	40.86	60.28	-19.42	peak	
4		0.4065	30.05	10.03	40.08	57.72	-17.64	peak	
5		0.5055	29.13	10.05	39.18	56.00	-16.82	peak	
6		0.6855	33.27	10.09	43.36	56.00	-12.64	peak	
7		22.2495	34.44	11.51	45.95	60.00	-14.05	peak	

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 A MODE CHANNEL 149
Test Voltage:	AC 240V/60Hz

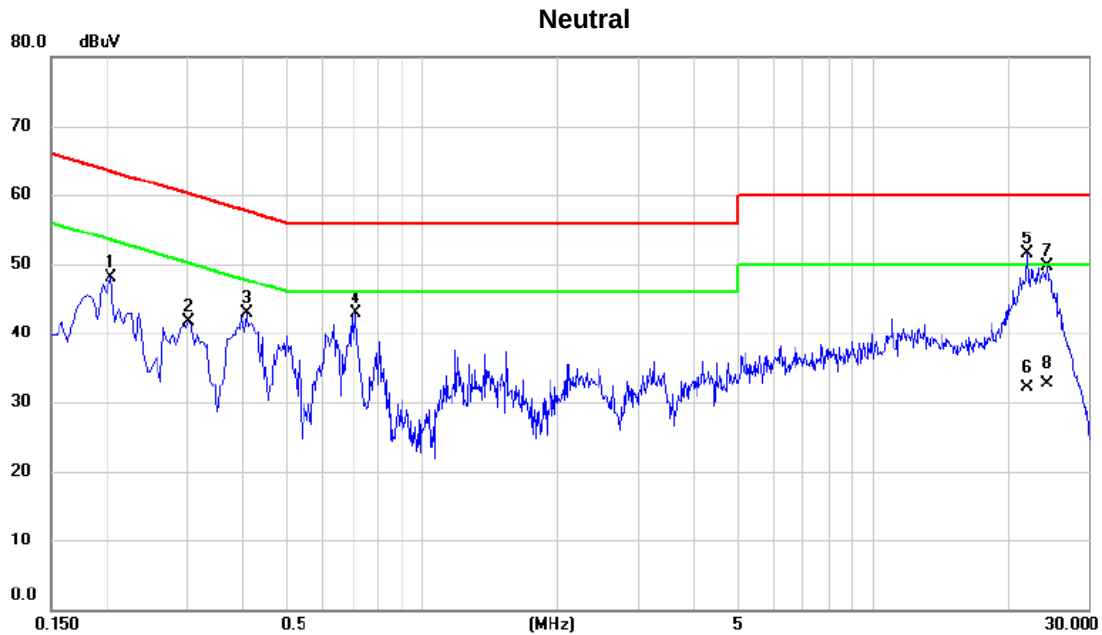


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2040	34.16	9.83	43.99	63.45	-19.46	peak	
2		0.2985	29.41	9.86	39.27	60.28	-21.01	peak	
3		0.4020	31.10	9.89	40.99	57.81	-16.82	peak	
4		0.5910	28.31	9.91	38.22	56.00	-17.78	peak	
5		0.6855	31.39	9.92	41.31	56.00	-14.69	peak	
6	*	24.2250	35.73	11.16	46.89	60.00	-13.11	peak	

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 A MODE CHANNEL 149
Test Voltage:	AC 240V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.2040	38.16	9.92	48.08	63.45	-15.37	peak	
2		0.3030	31.73	9.97	41.70	60.16	-18.46	peak	
3		0.4065	32.84	10.03	42.87	57.72	-14.85	peak	
4		0.7125	32.73	10.09	42.82	56.00	-13.18	peak	
5	*	21.8940	40.09	11.51	51.60	60.00	-8.40	peak	
6		21.8940	20.50	11.51	32.01	50.00	-17.99	AVG	
7		24.2835	38.21	11.51	49.72	60.00	-10.28	peak	
8		24.2835	21.10	11.51	32.61	50.00	-17.39	AVG	

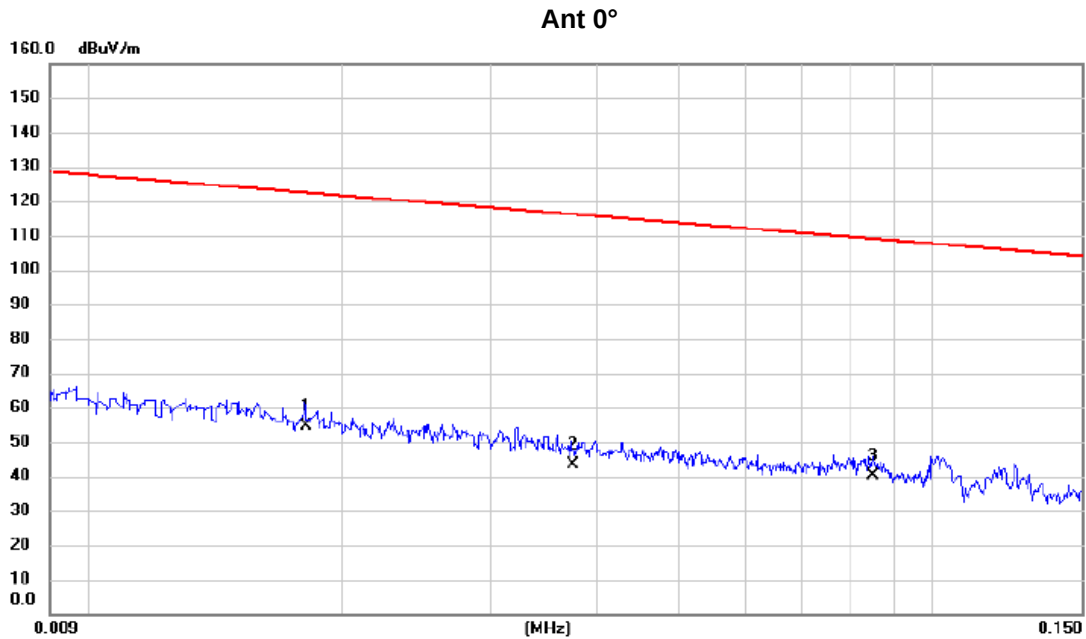
Note: The test result has included the cable loss.

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode: TX A MODE CHANNEL 149

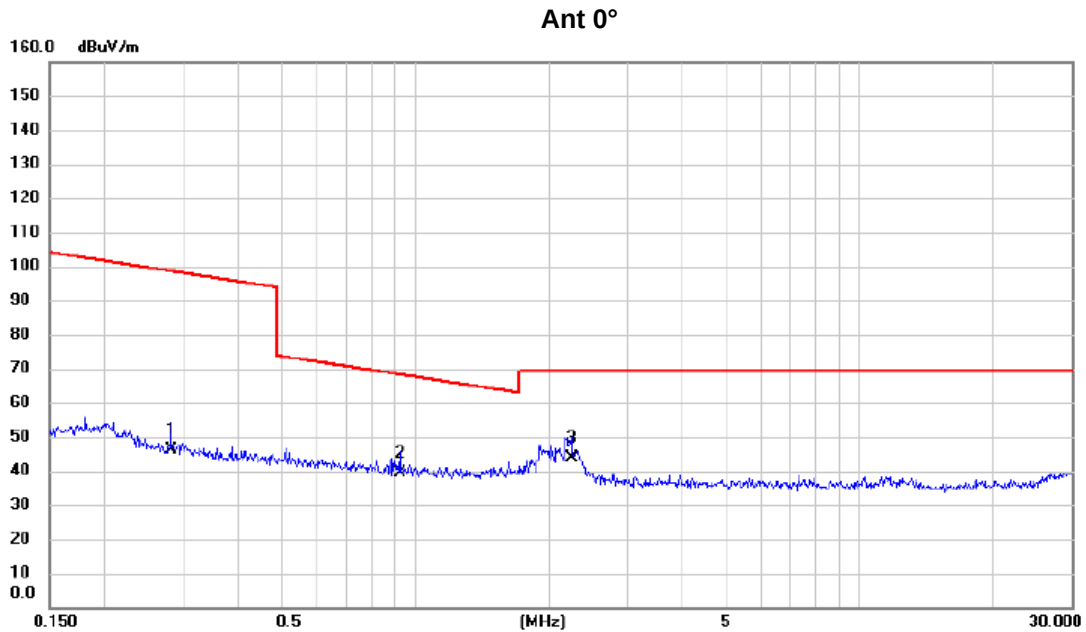


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0181	40.32	14.39	54.71	122.45	-67.74	AVG	
2		0.0375	29.41	13.89	43.30	116.12	-72.82	AVG	
3		0.0851	26.83	13.54	40.37	109.01	-68.64	AVG	

REMARKS:

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

Test Mode: TX A MODE CHANNEL 149

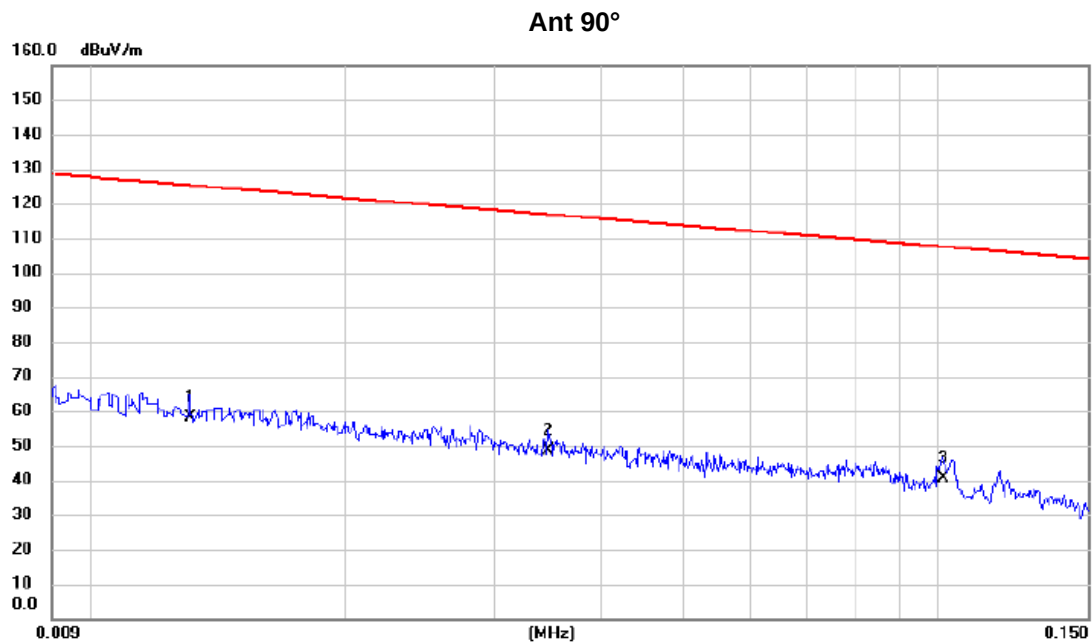


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2818	32.56	13.58	46.14	98.61	-52.47	AVG	
2		0.9233	26.84	12.52	39.36	68.30	-28.94	QP	
3	*	2.2486	32.18	11.67	43.85	69.54	-25.69	QP	

REMARKS:

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

Test Mode: TX A MODE CHANNEL 149

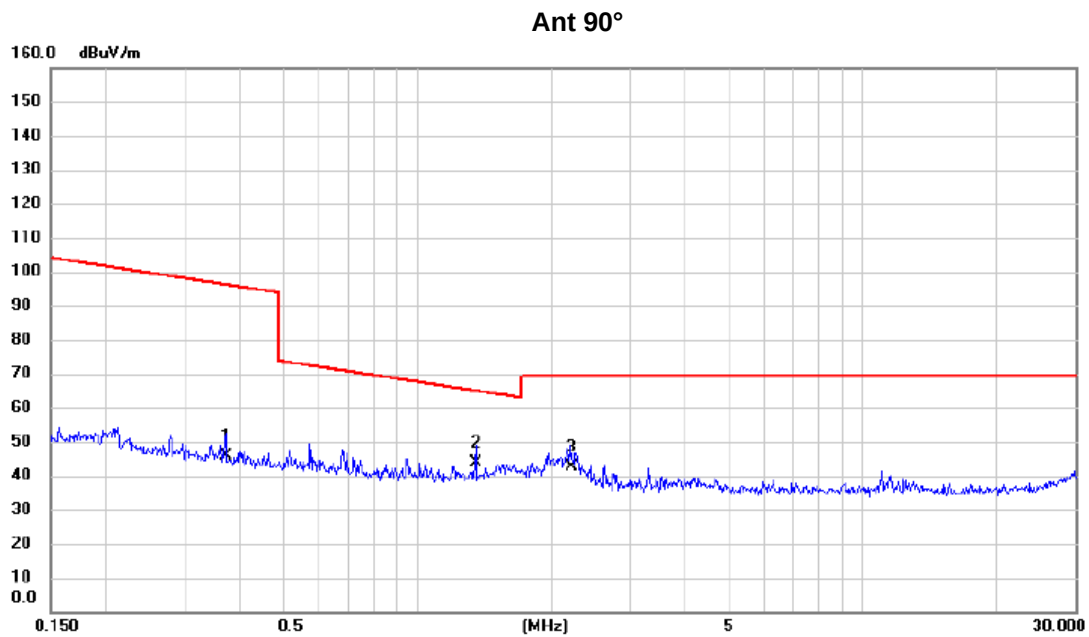


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0131	42.51	15.89	58.40	125.26	-66.86	AVG	
2		0.0347	34.82	13.88	48.70	116.80	-68.10	AVG	
3		0.1012	26.94	13.54	40.48	107.50	-67.02	QP	

REMARKS:

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

Test Mode: TX A MODE CHANNEL 149



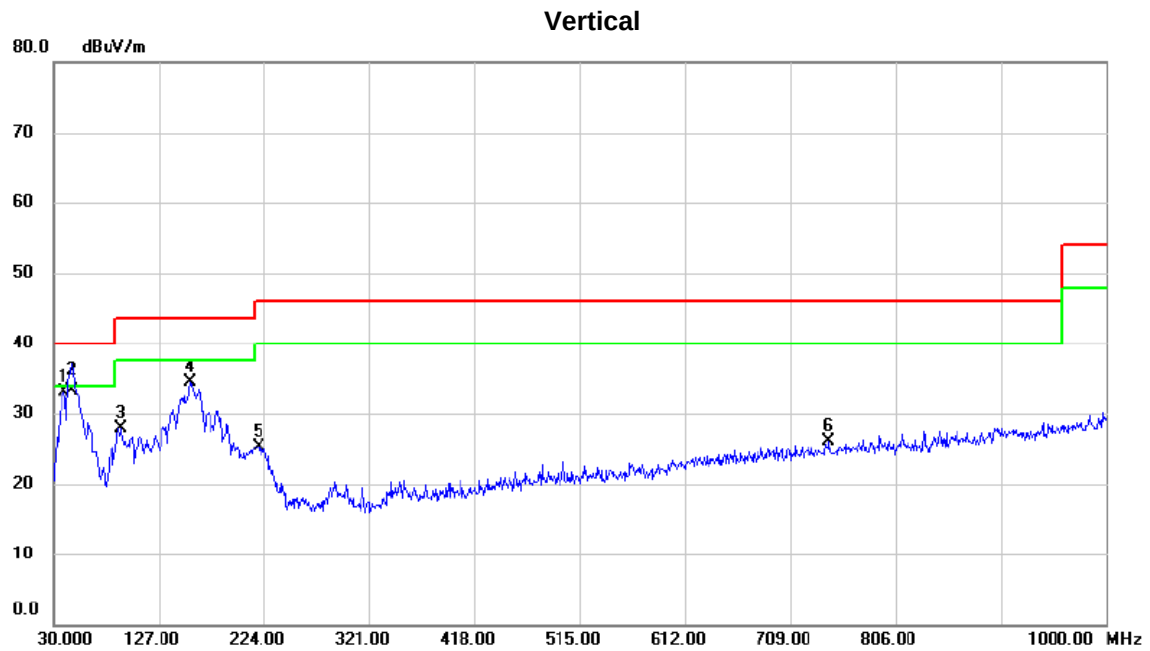
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.3712	32.61	13.37	45.98	96.21	-50.23	AVG	
2	*	1.3521	31.65	12.26	43.91	64.98	-21.07	QP	
3		2.2132	30.82	11.69	42.51	69.54	-27.03	QP	

REMARKS:

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

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ

Test Mode: TX A MODE CHANNEL 149



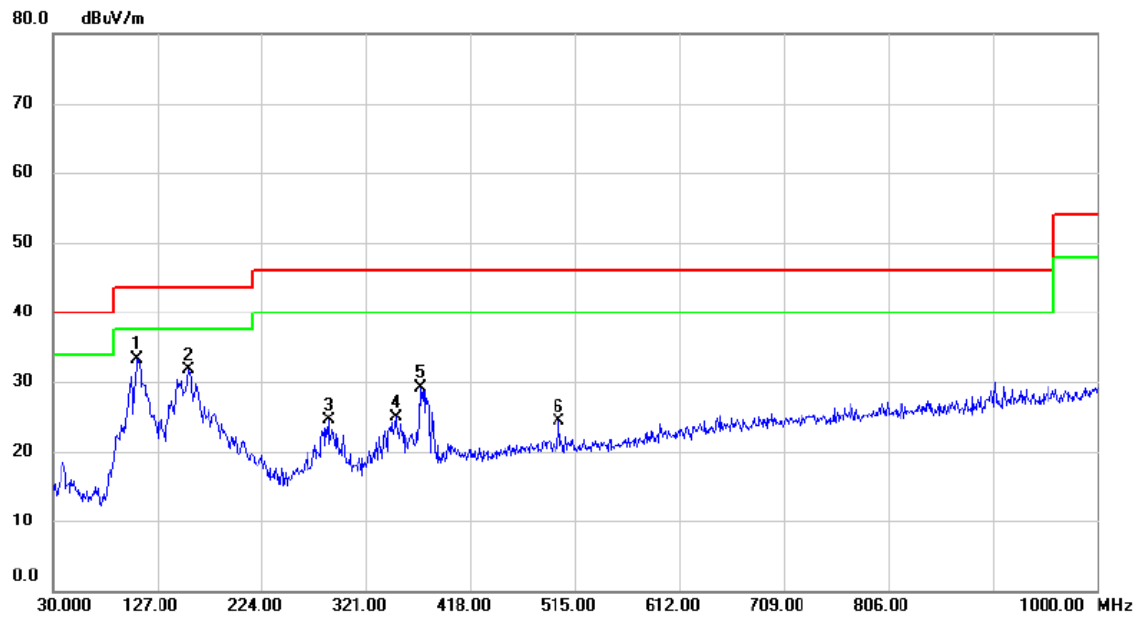
REMARKS:

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

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

Test Mode: TX A MODE CHANNEL 149

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	108.570	48.00	-14.69	33.31	43.50	-10.19	peak	
2		156.100	43.24	-11.62	31.62	43.50	-11.88	peak	
3		286.080	36.91	-12.36	24.55	46.00	-21.45	peak	
4		348.160	35.77	-10.90	24.87	46.00	-21.13	peak	
5		371.440	39.48	-10.39	29.09	46.00	-16.91	peak	
6		500.450	32.38	-8.04	24.34	46.00	-21.66	peak	

REMARKS:

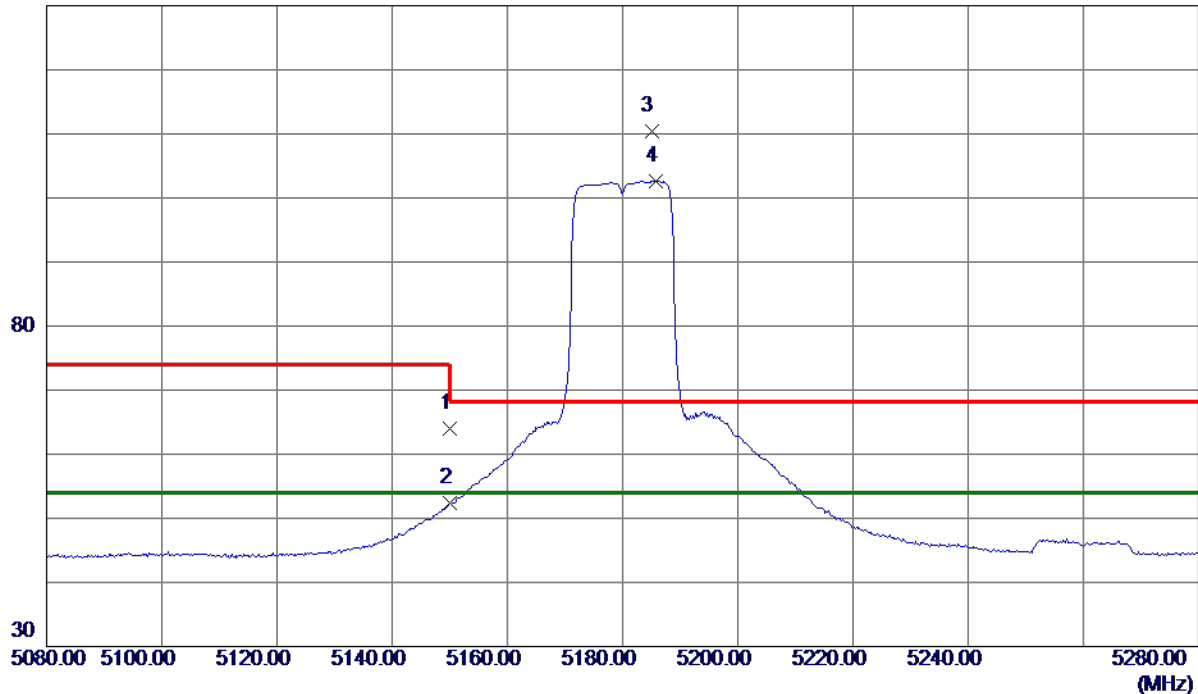
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	49.57	14.51	64.08	74.00	-9.92	Peak	
2	5150.0000	37.85	14.51	52.36	54.00	-1.64	AVG	
3	5185.0000	95.84	14.60	110.44	68.30	42.14	Peak	No Limit
4 *	5185.8000	88.09	14.60	102.69	54.00	48.69	AVG	No Limit

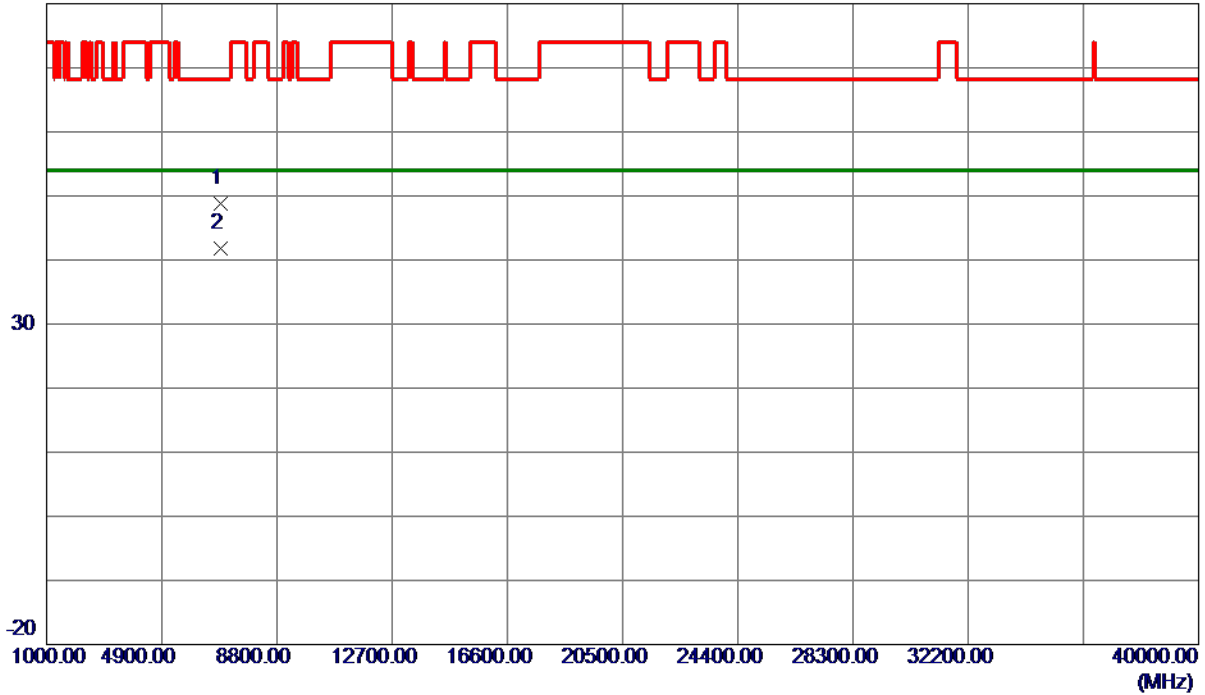
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6904.4900	40.20	8.66	48.86	68.30	-19.44	Peak	
2 *	6904.1200	33.14	8.66	41.80	54.00	-12.20	AVG	

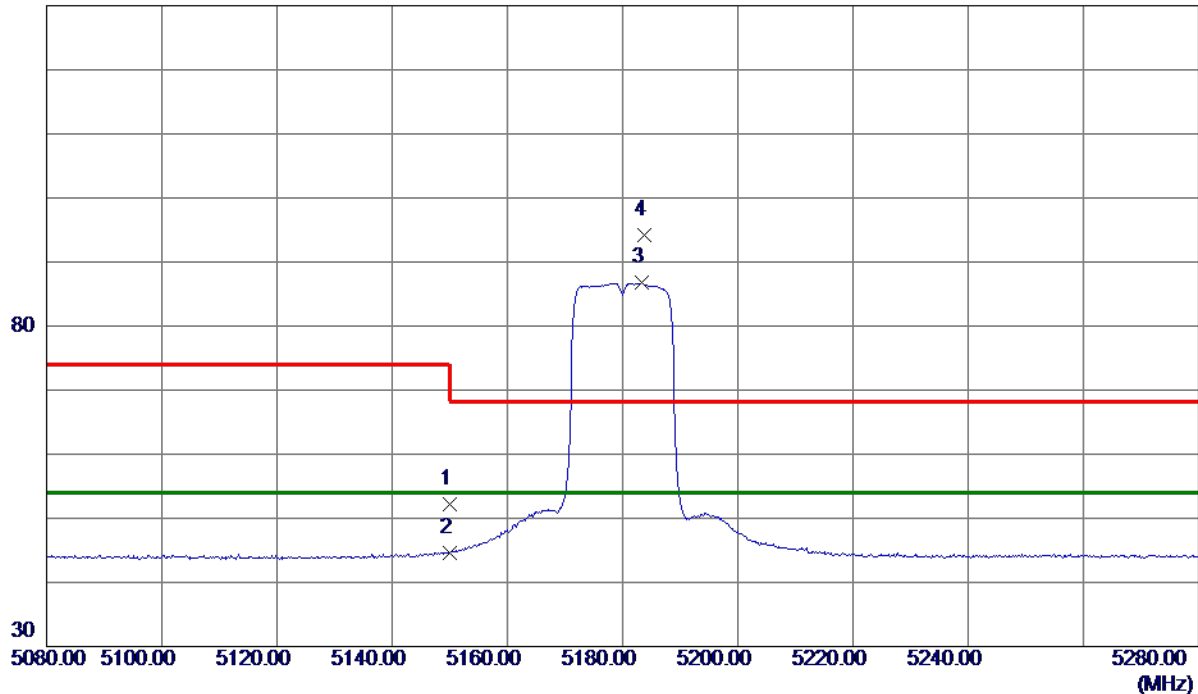
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.70	14.51	52.21	74.00	-21.79	Peak	
2	5150.0000	30.14	14.51	44.65	54.00	-9.35	AVG	
3 *	5183.4000	72.13	14.59	86.72	54.00	32.72	AVG	No Limit
4	5183.8000	79.56	14.59	94.15	68.30	25.85	Peak	No Limit

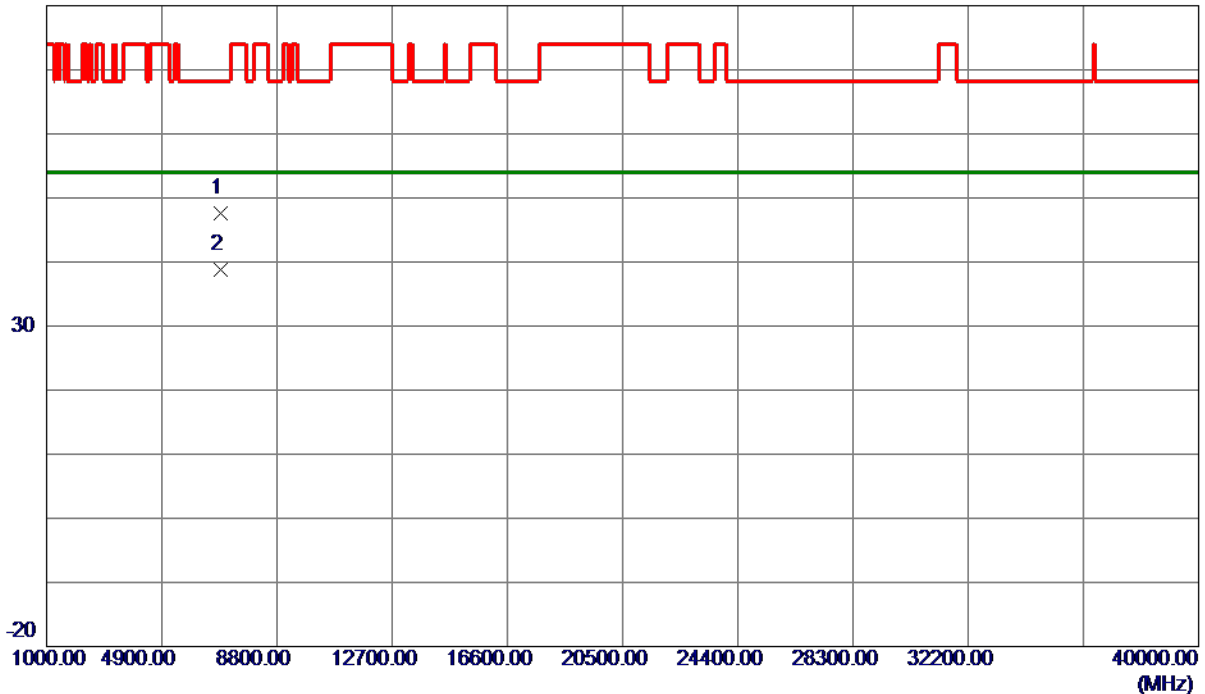
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5180 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6907.6100	38.85	8.67	47.52	68.30	-20.78	Peak	
2 *	6902.4700	30.11	8.66	38.77	54.00	-15.23	AVG	

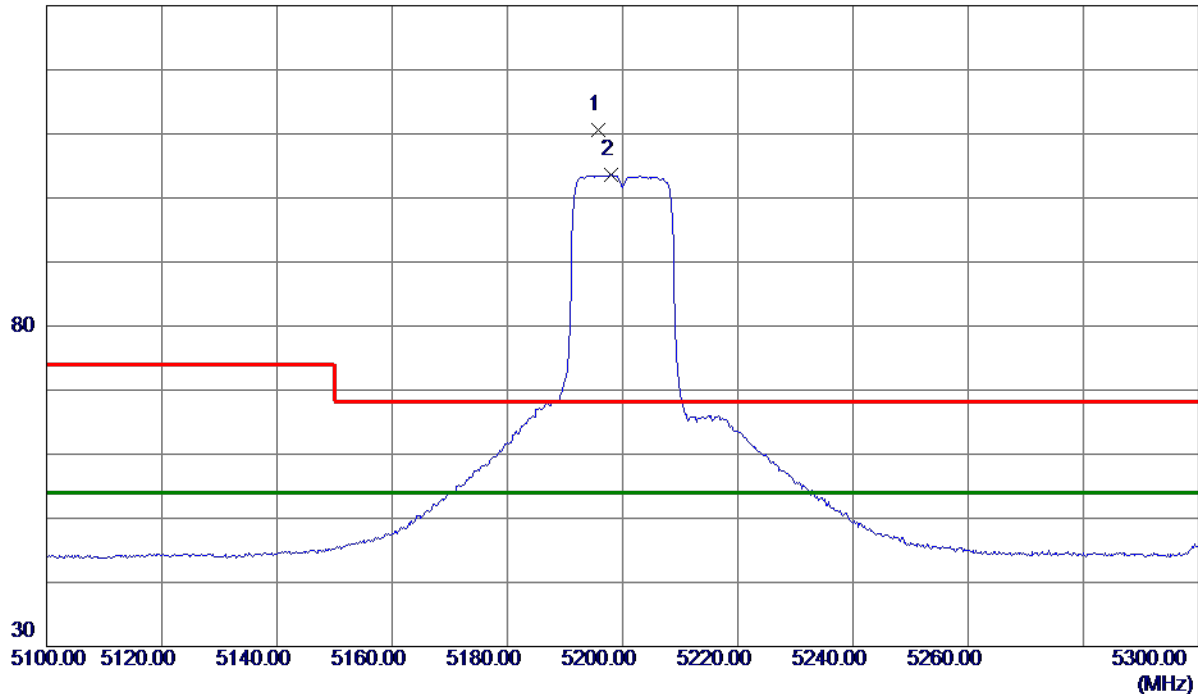
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5195.8000	95.88	14.63	110.51	68.30	42.21	Peak	No Limit
2 *	5198.0000	88.95	14.63	103.58	54.00	49.58	AVG	No Limit

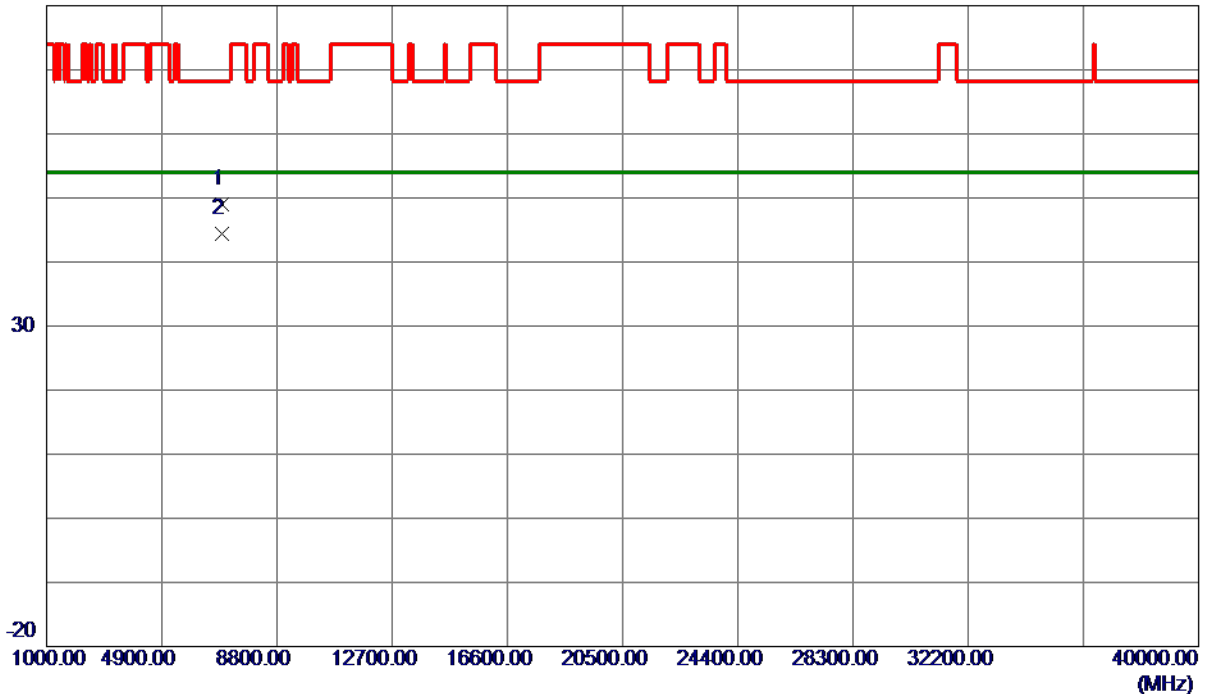
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6934.3550	40.25	8.73	48.98	68.30	-19.32	Peak	
2 *	6931.4500	35.64	8.72	44.36	54.00	-9.64	AVG	

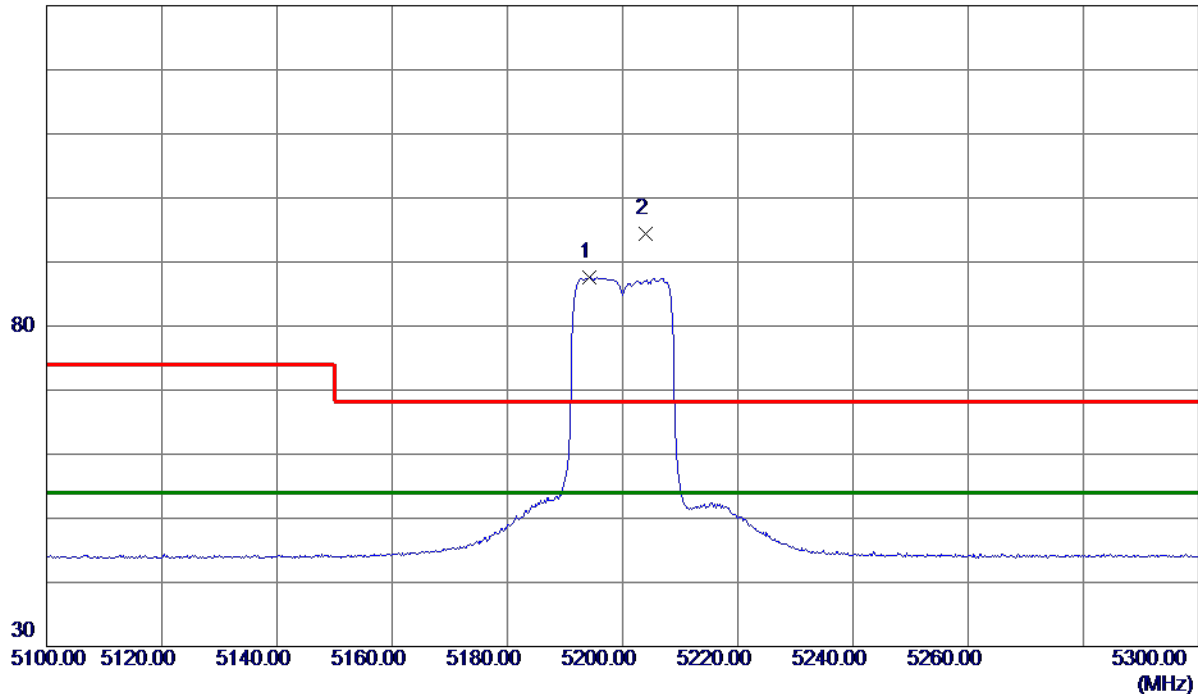
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5194.2000	73.00	14.62	87.62	54.00	33.62	AVG	No Limit
2	5204.0000	79.76	14.65	94.41	68.30	26.11	Peak	No Limit

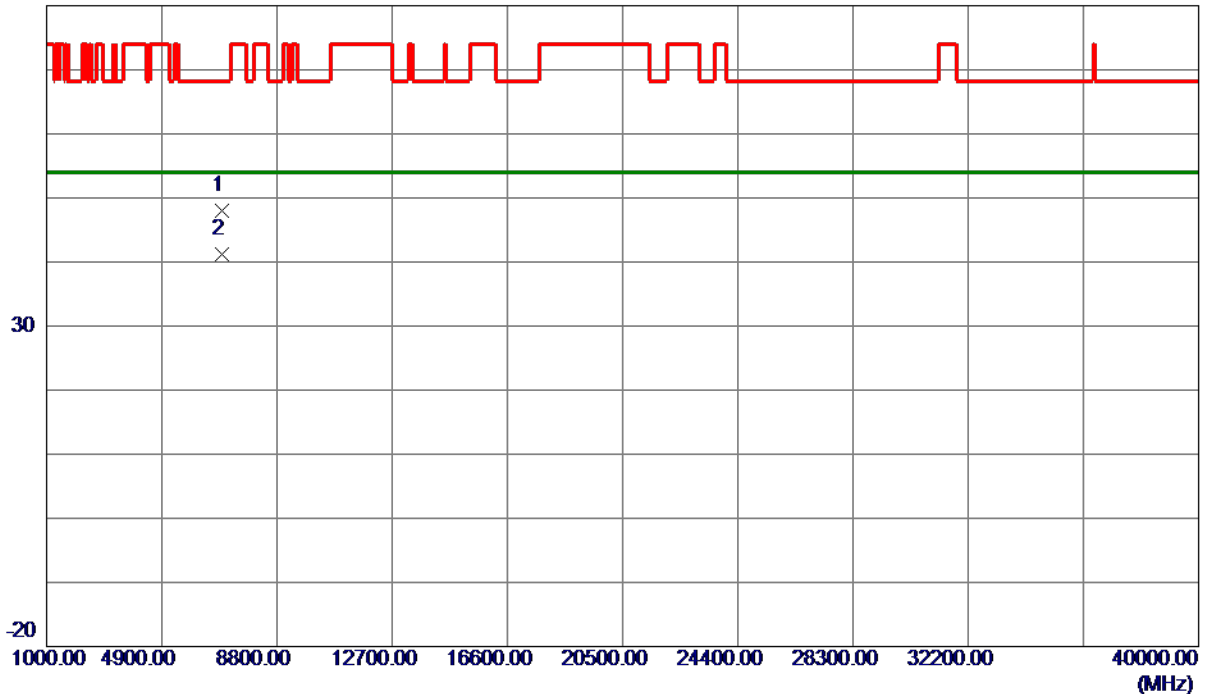
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5200 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6934.8400	39.25	8.73	47.98	68.30	-20.32	Peak	
2 *	6932.8100	32.47	8.72	41.19	54.00	-12.81	AVG	

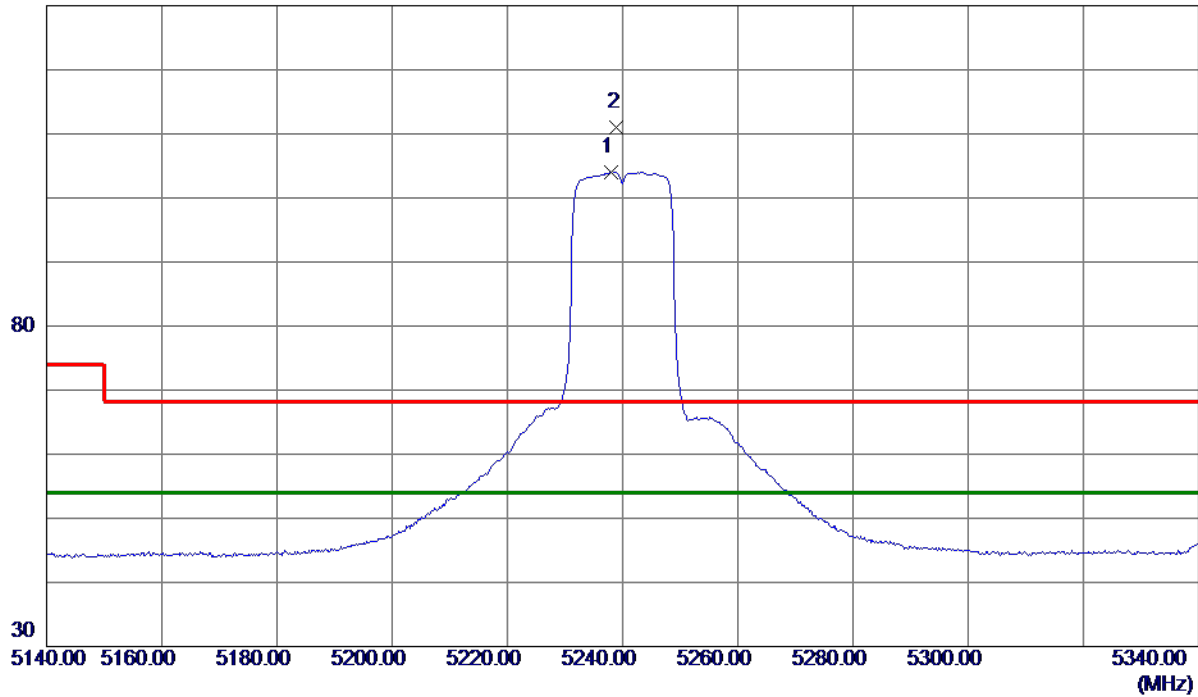
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5238.0000	89.29	14.73	104.02	54.00	50.02	AVG	No Limit
2	5239.0000	96.31	14.73	111.04	68.30	42.74	Peak	No Limit

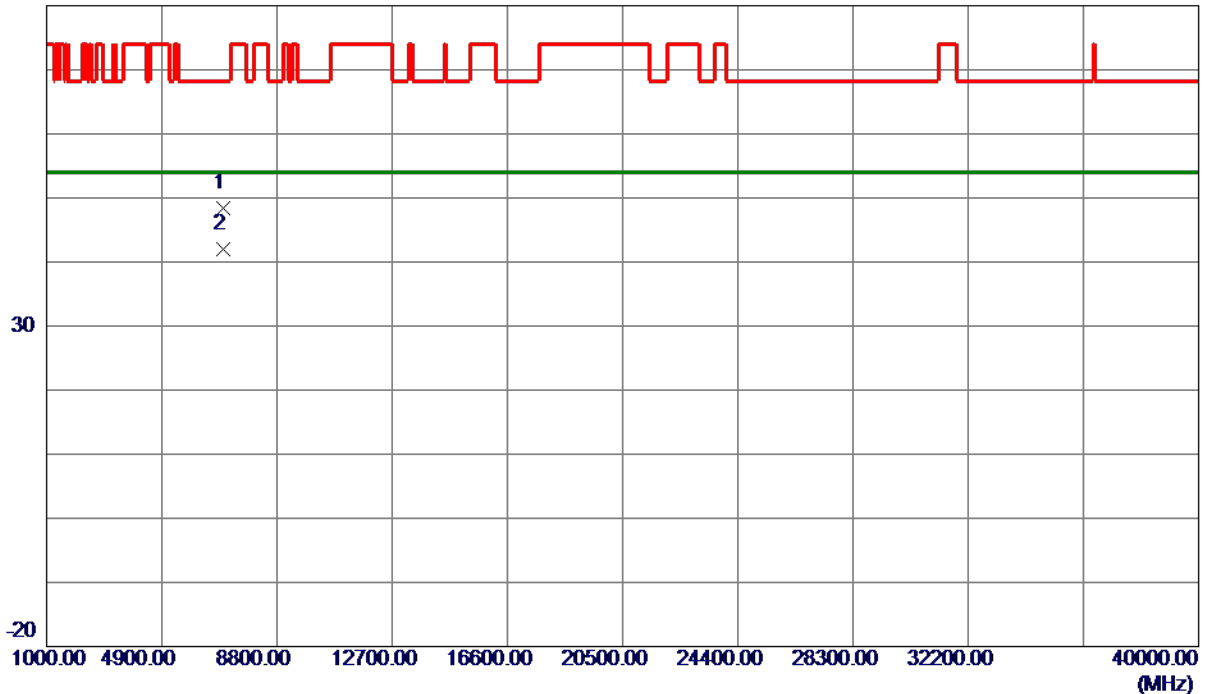
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6987.2900	39.63	8.84	48.47	68.30	-19.83	Peak	
2 *	6987.1600	33.17	8.84	42.01	54.00	-11.99	AVG	

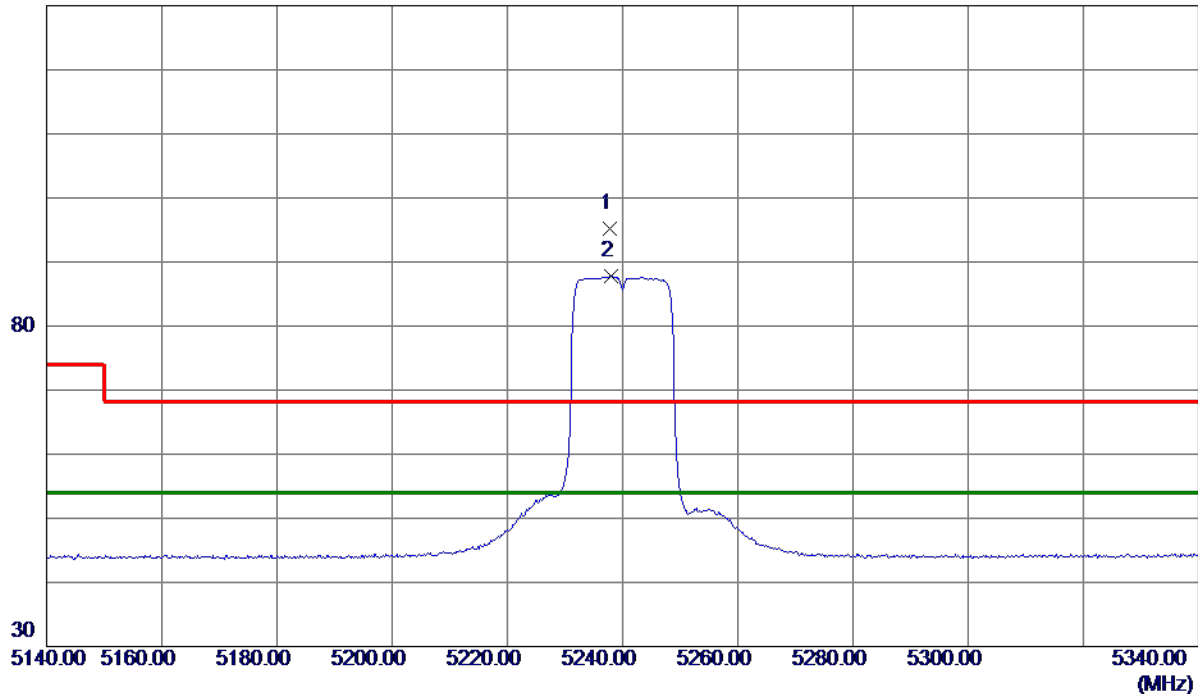
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5237.8000	80.50	14.73	95.23	68.30	26.93	Peak	No Limit
2 *	5238.0000	73.01	14.73	87.74	54.00	33.74	AVG	No Limit

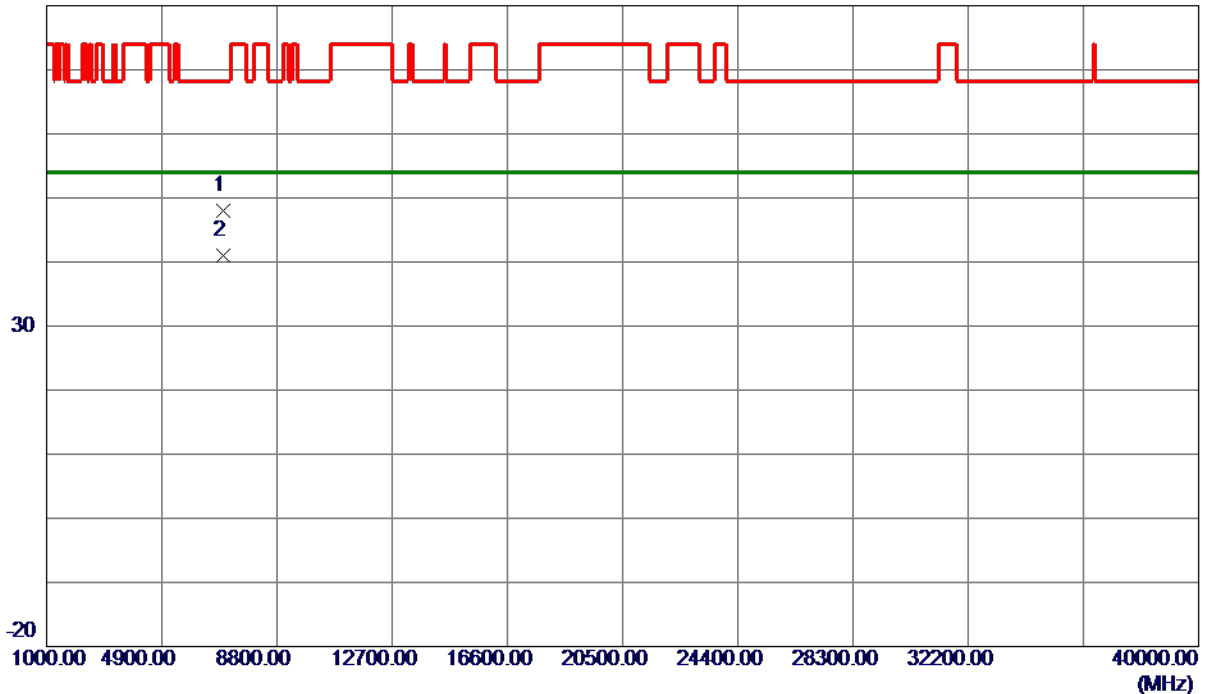
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX A Mode 5240 MHz

Horizontal

80 dBuV/m



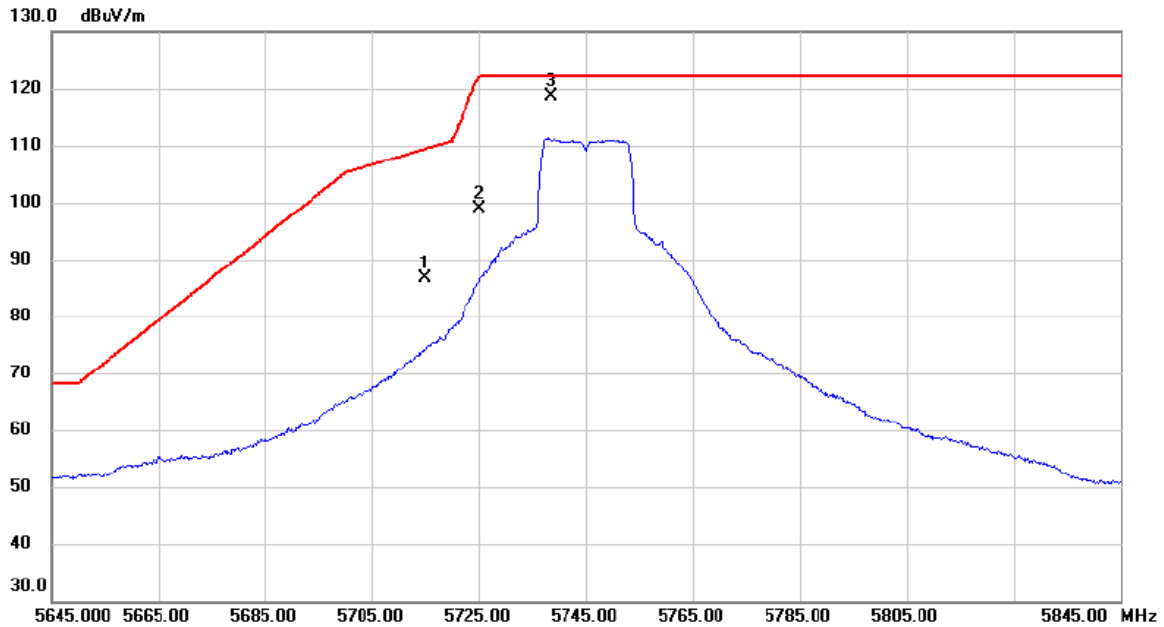
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6985.6450	39.14	8.84	47.98	68.30	-20.32	Peak	
2 *	6984.3600	32.23	8.84	41.07	54.00	-12.93	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	70.89	15.86	86.75	109.40	-22.65	peak	
2		5725.000	83.06	15.88	98.94	122.20	-23.26	peak	
3	*	5738.400	102.64	15.91	118.55	122.20	-3.65	peak	No Limit

REMARKS:

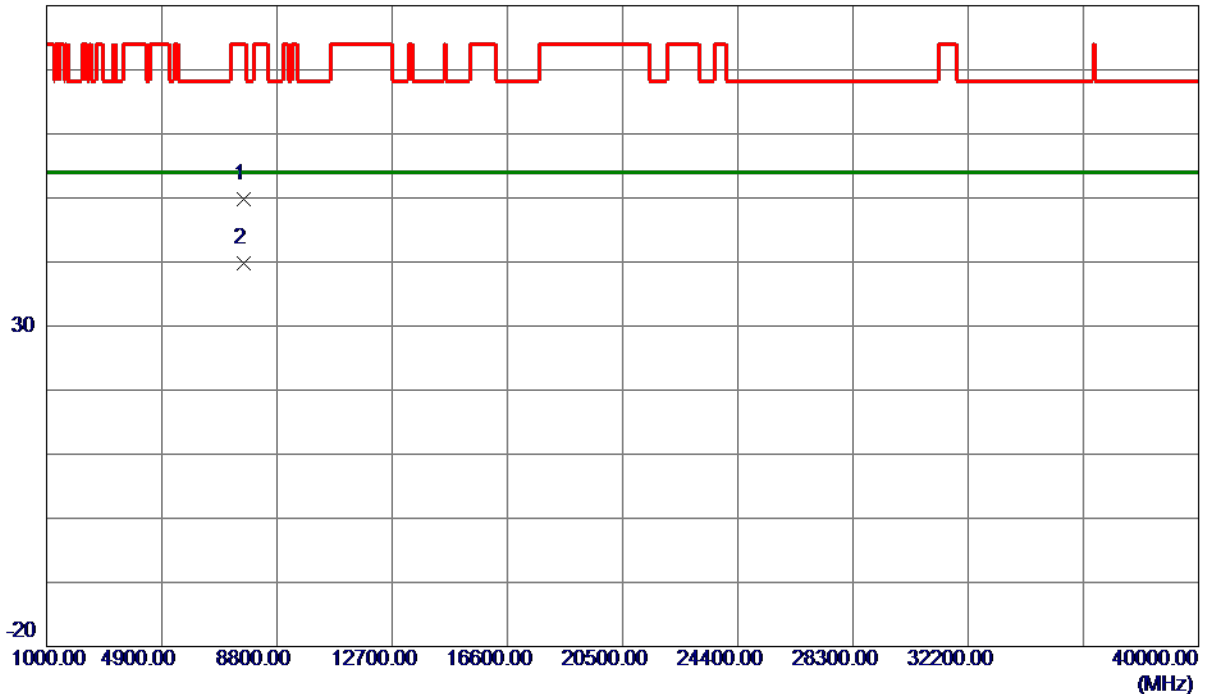
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Vertical

80 dBuV/m



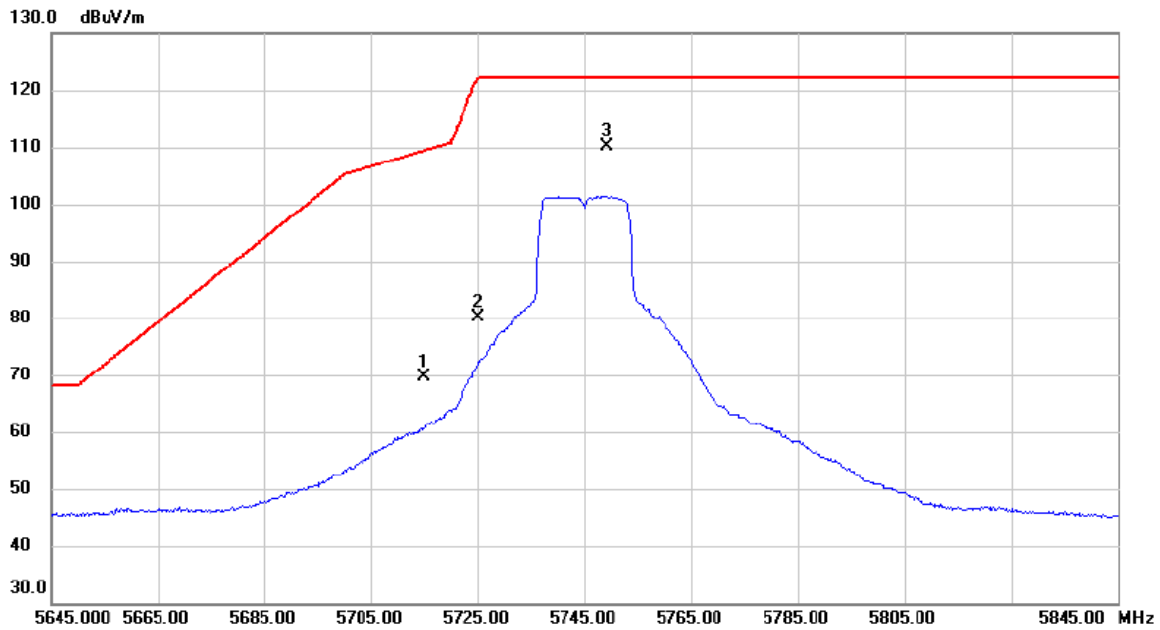
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7660.0150	40.18	9.53	49.71	74.00	-24.29	Peak	
2 *	7660.1750	30.25	9.53	39.78	54.00	-14.22	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	53.79	15.86	69.65	109.40	-39.75	peak	
2		5725.000	64.33	15.88	80.21	122.20	-41.99	peak	
3	*	5749.200	94.10	15.93	110.03	122.20	-12.17	peak	No Limit

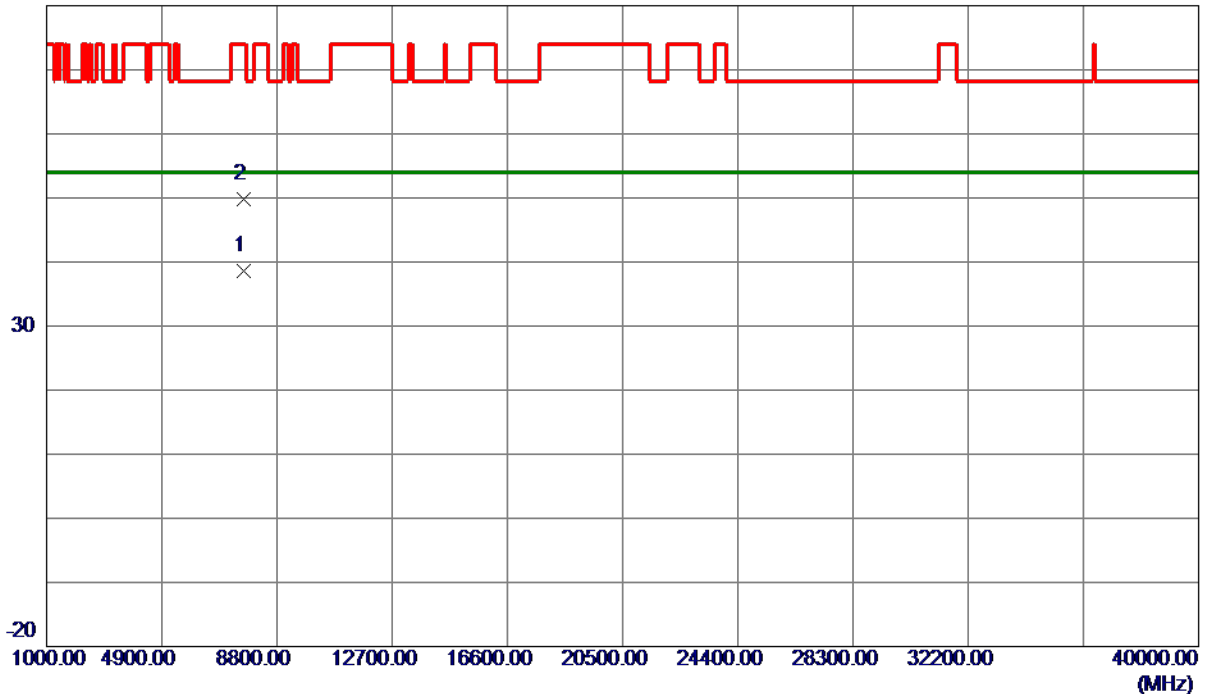
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5745 MHz

Horizontal

80 dBuV/m



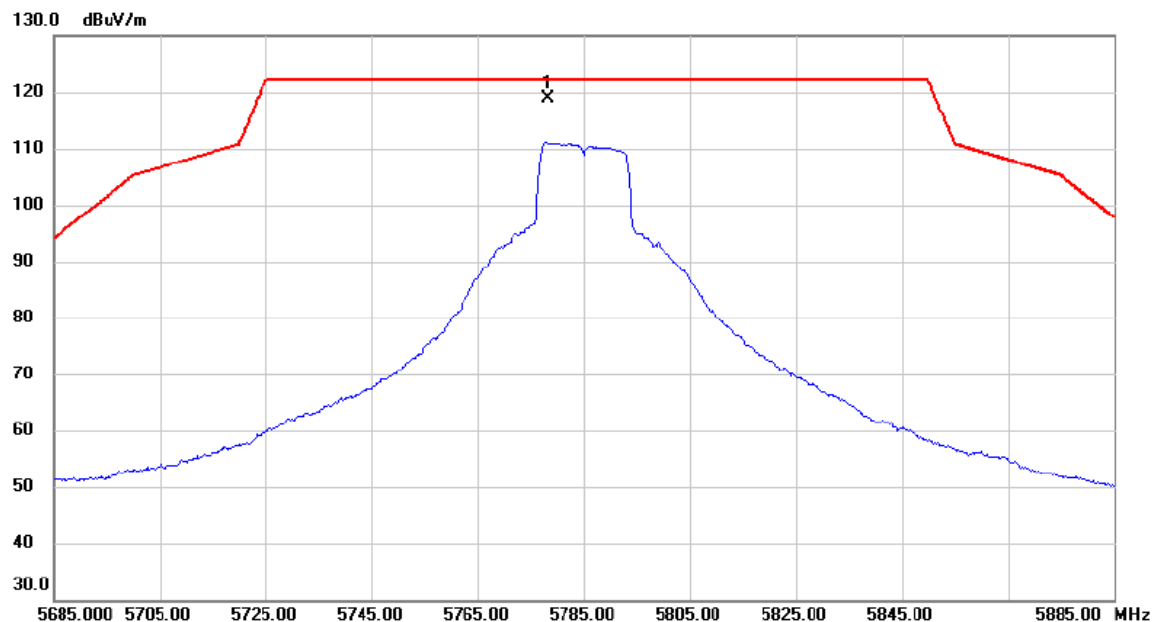
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7660.1550	29.07	9.53	38.60	54.00	-15.40	AVG	
2	7660.4500	40.24	9.53	49.77	74.00	-24.23	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5778.200	102.95	16.00	118.95	122.20	-3.25	peak	No Limit

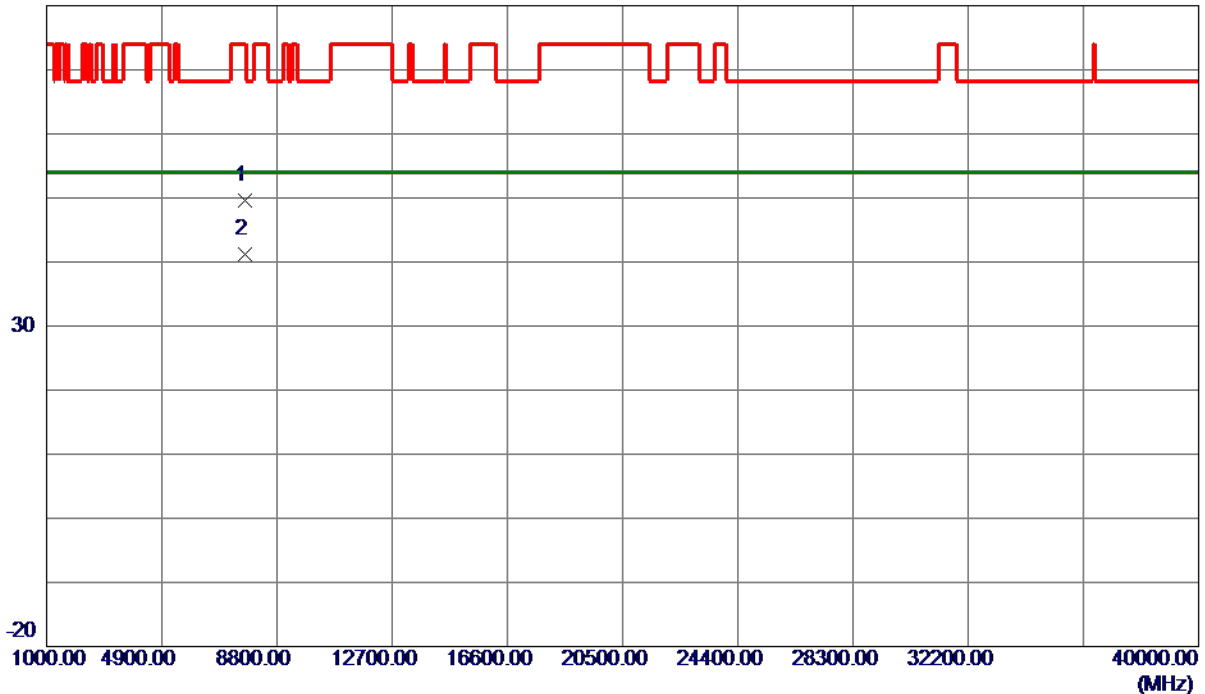
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Vertical

80 dBuV/m



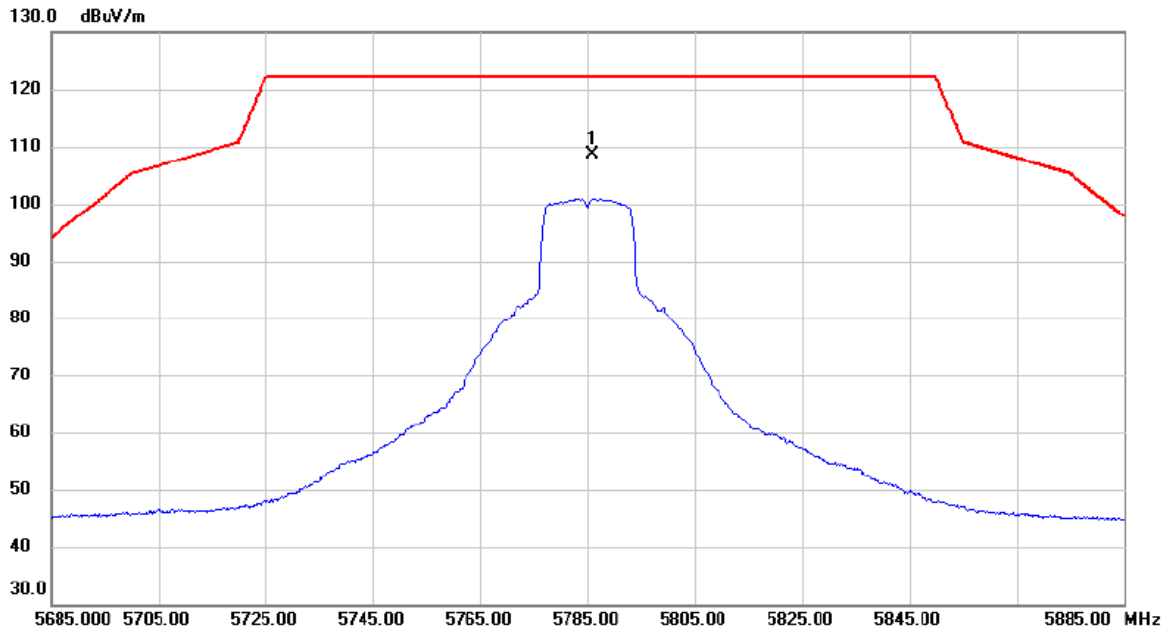
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7713.2100	40.04	9.51	49.55	74.00	-24.45	Peak	
2 *	7713.4000	31.69	9.51	41.20	54.00	-12.80	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5786.000	92.67	16.01	108.68	122.20	-13.52	peak	No Limit

REMARKS:

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

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5785 MHz

Horizontal

80 dBuV/m



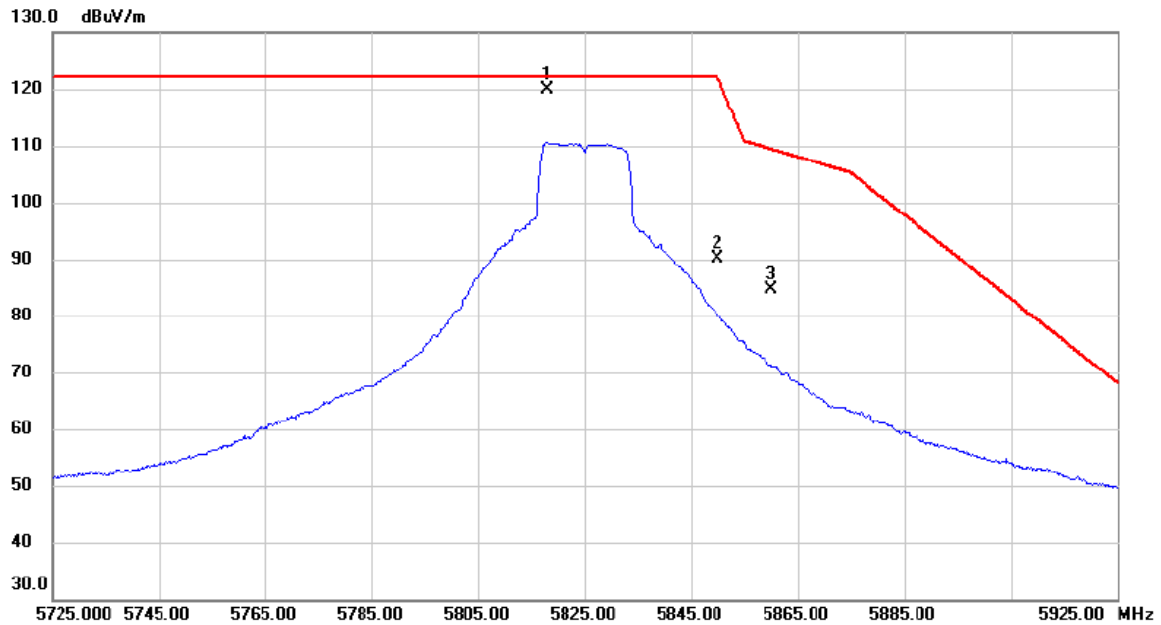
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7713.3600	39.54	9.51	49.05	74.00	-24.95	Peak	
2 *	7713.4450	28.22	9.51	37.73	54.00	-16.27	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5818.000	103.68	16.09	119.77	122.20	-2.43	peak	No Limit
2		5850.000	74.01	16.16	90.17	122.20	-32.03	peak	
3		5860.000	68.51	16.18	84.69	109.40	-24.71	peak	

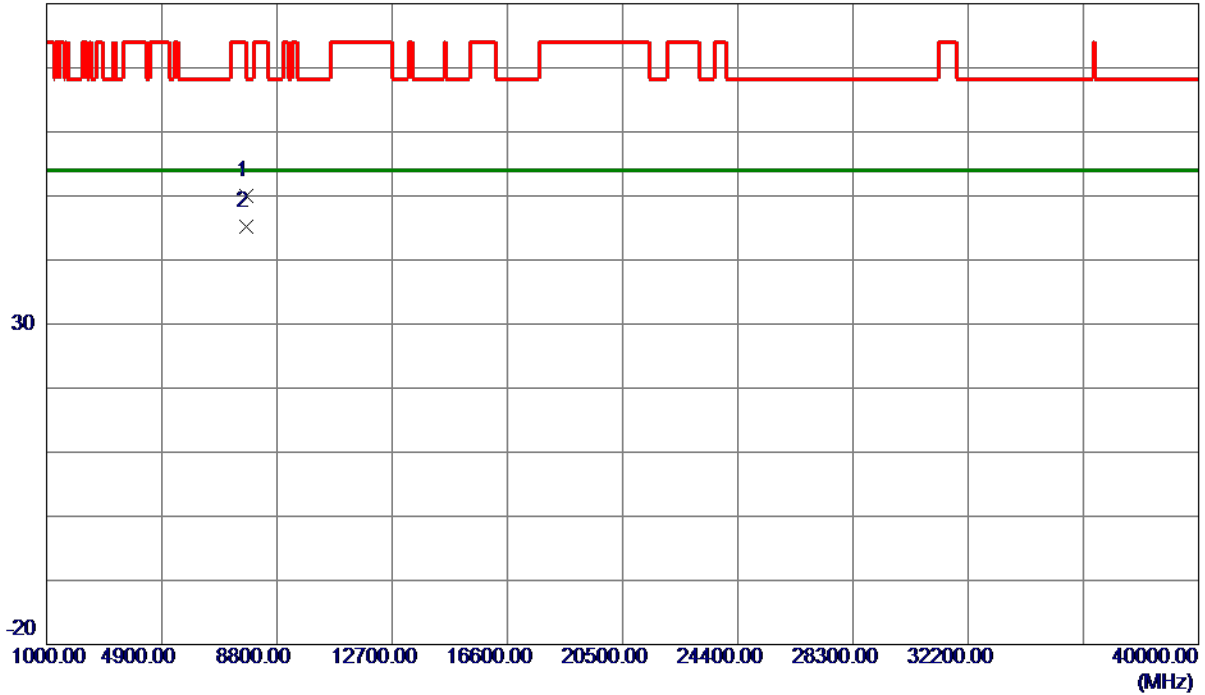
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Vertical

80 dBuV/m



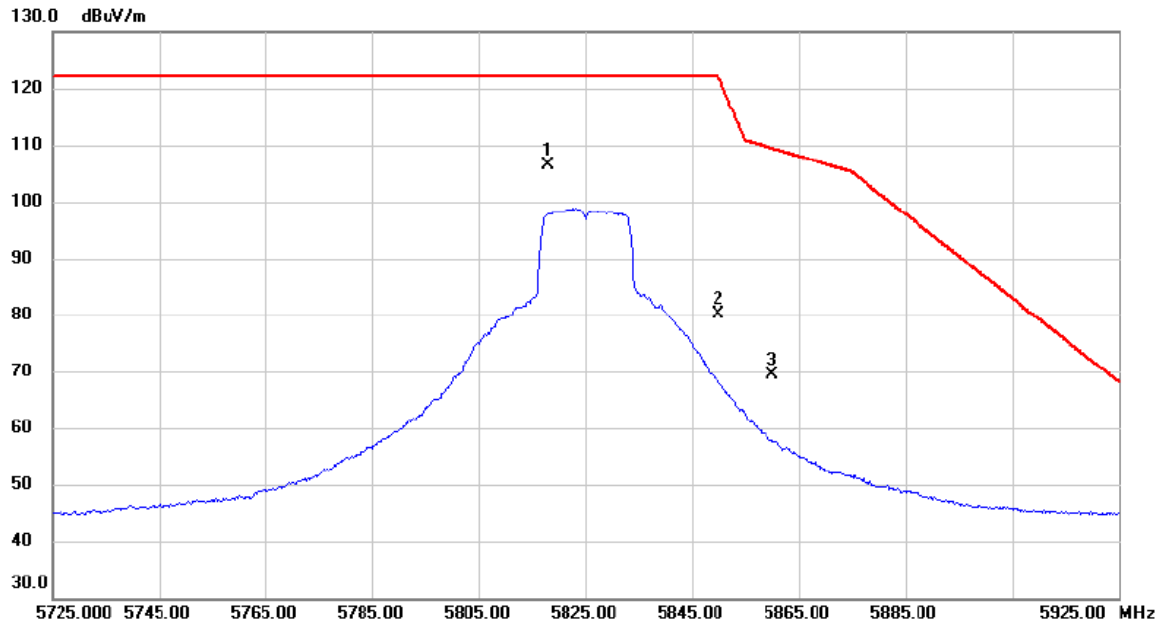
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7766.8850	40.51	9.49	50.00	68.30	-18.30	Peak	
2 *	7765.2800	35.64	9.50	45.14	54.00	-8.86	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5818.000	90.39	16.09	106.48	122.20	-15.72	peak	No Limit
2		5850.000	63.87	16.16	80.03	122.20	-42.17	peak	
3		5860.000	53.09	16.18	69.27	109.40	-40.13	peak	

REMARKS:

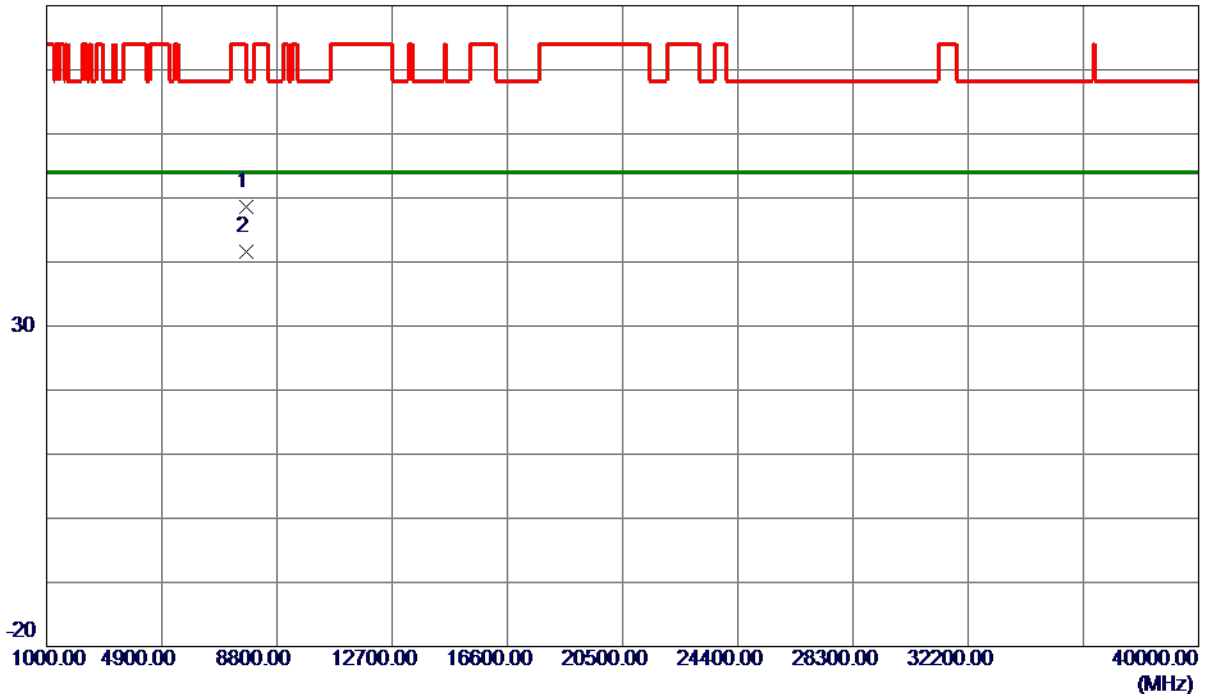
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 5825 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7766.5250	39.13	9.49	48.62	68.30	-19.68	Peak	
2 *	7765.4200	32.17	9.49	41.66	54.00	-12.34	AVG	

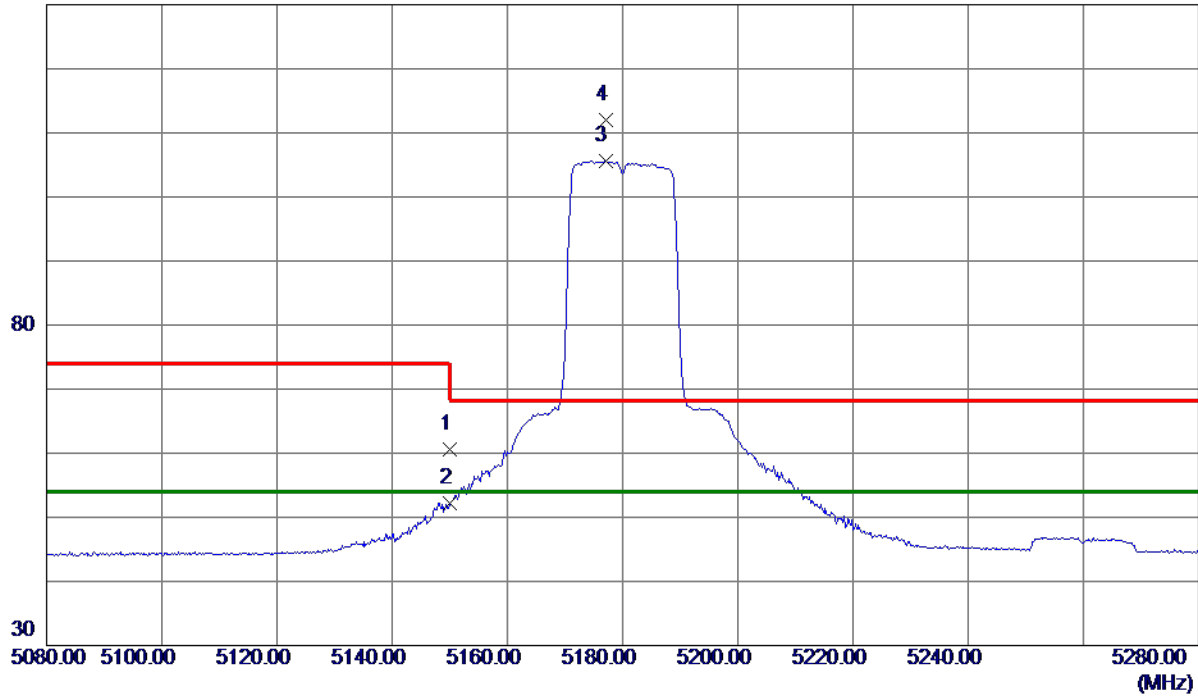
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	46.07	14.51	60.58	74.00	-13.42	Peak	
2	5150.0000	37.73	14.51	52.24	54.00	-1.76	AVG	
3 *	5177.0000	91.10	14.58	105.68	54.00	51.68	AVG	No Limit
4	5177.2000	97.50	14.58	112.08	68.30	43.78	Peak	No Limit

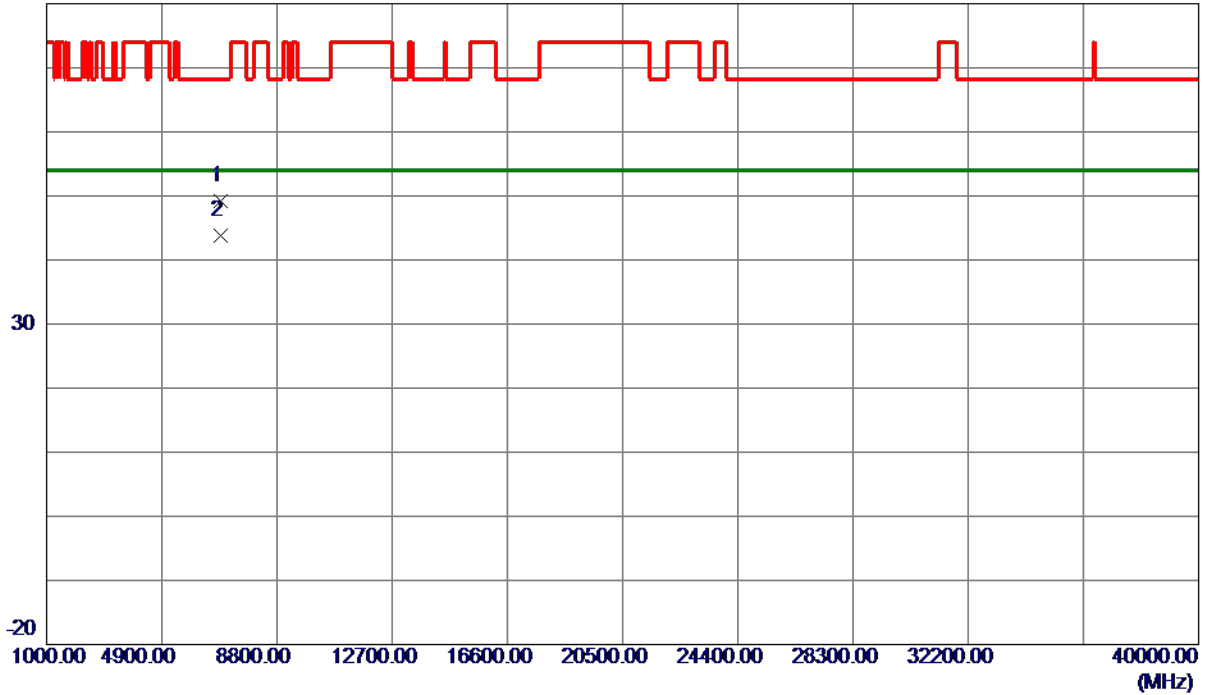
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6905.5400	40.51	8.66	49.17	68.30	-19.13	Peak	
2 *	6902.4710	35.15	8.66	43.81	54.00	-10.19	AVG	

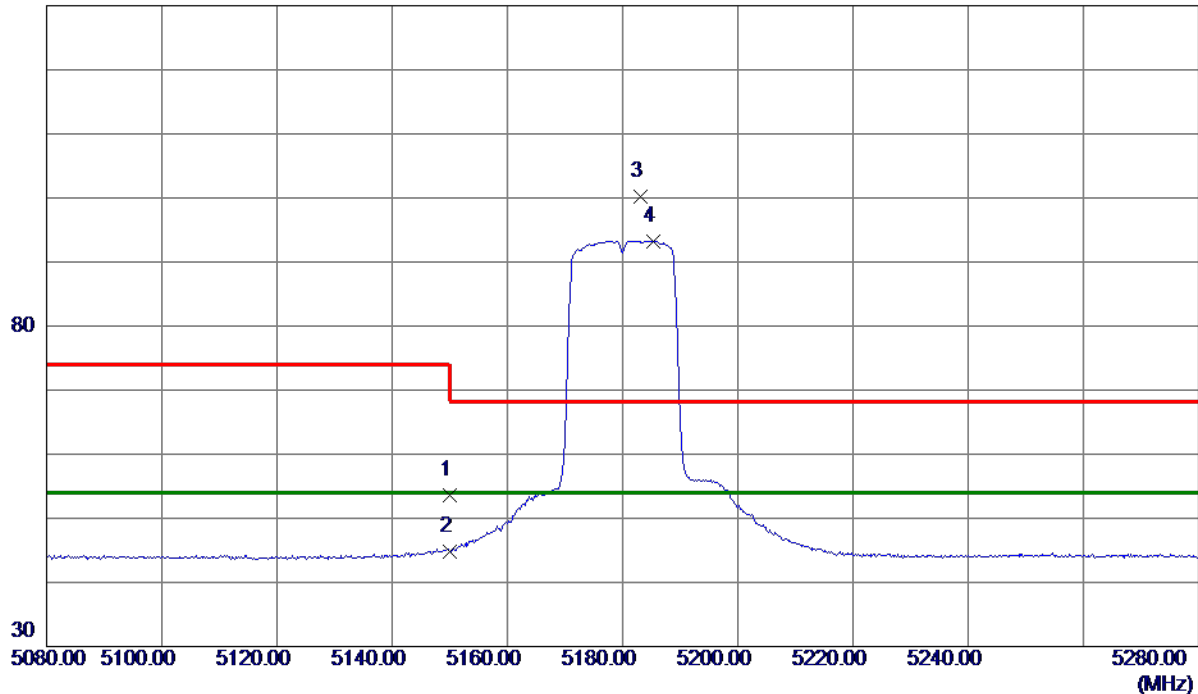
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	39.08	14.51	53.59	74.00	-20.41	Peak	
2	5150.0000	30.37	14.51	44.88	54.00	-9.12	AVG	
3	5183.2000	85.65	14.59	100.24	68.30	31.94	Peak	No Limit
4 *	5185.4000	78.68	14.60	93.28	54.00	39.28	AVG	No Limit

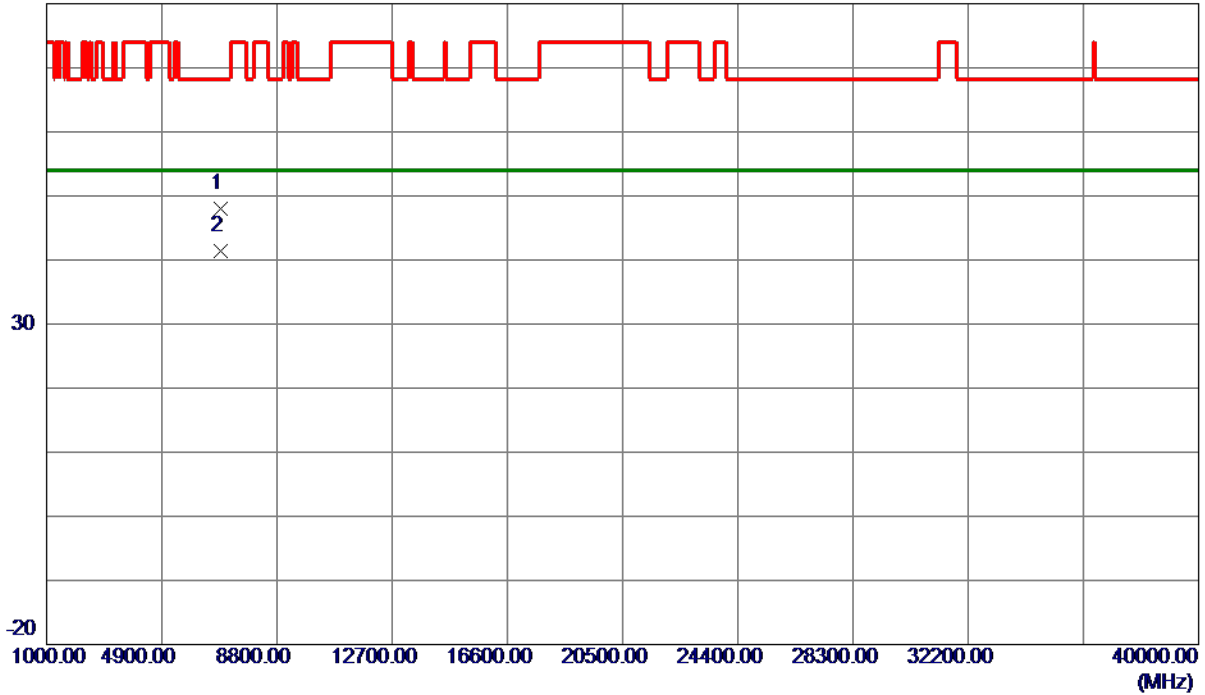
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6908.0200	39.28	8.67	47.95	68.30	-20.35	Peak	
2 *	6908.0130	32.64	8.67	41.31	54.00	-12.69	AVG	

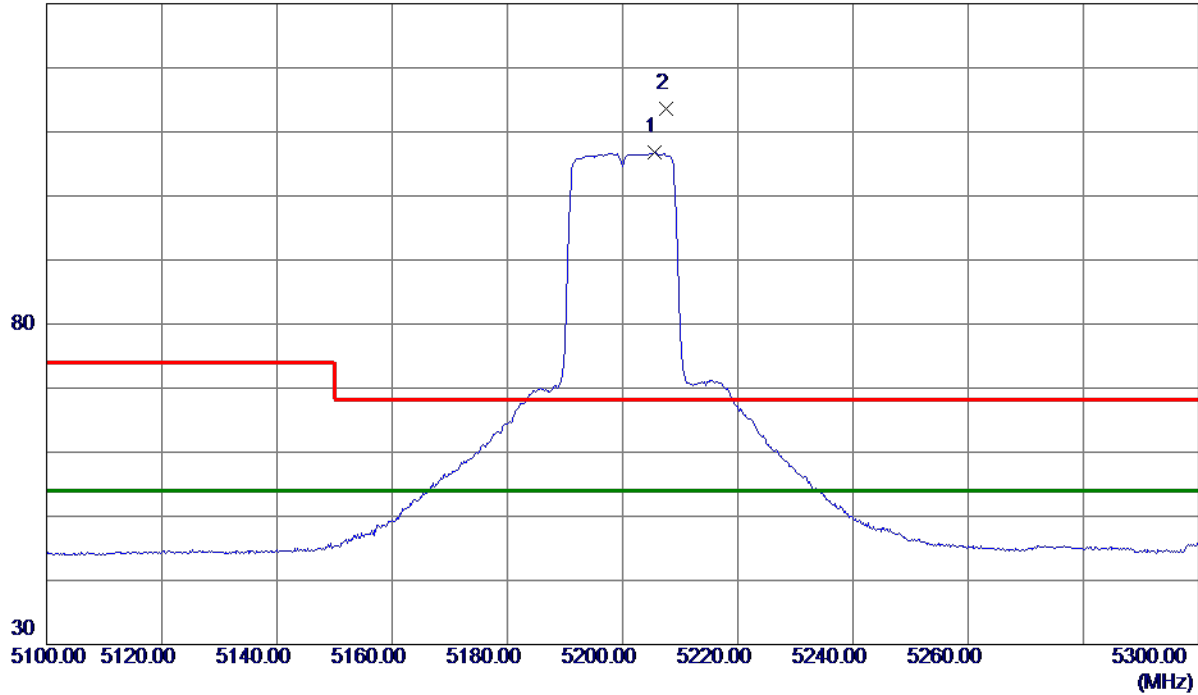
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5205.6000	92.07	14.65	106.72	54.00	52.72	AVG	No Limit
2	5207.6000	98.93	14.66	113.59	68.30	45.29	Peak	No Limit

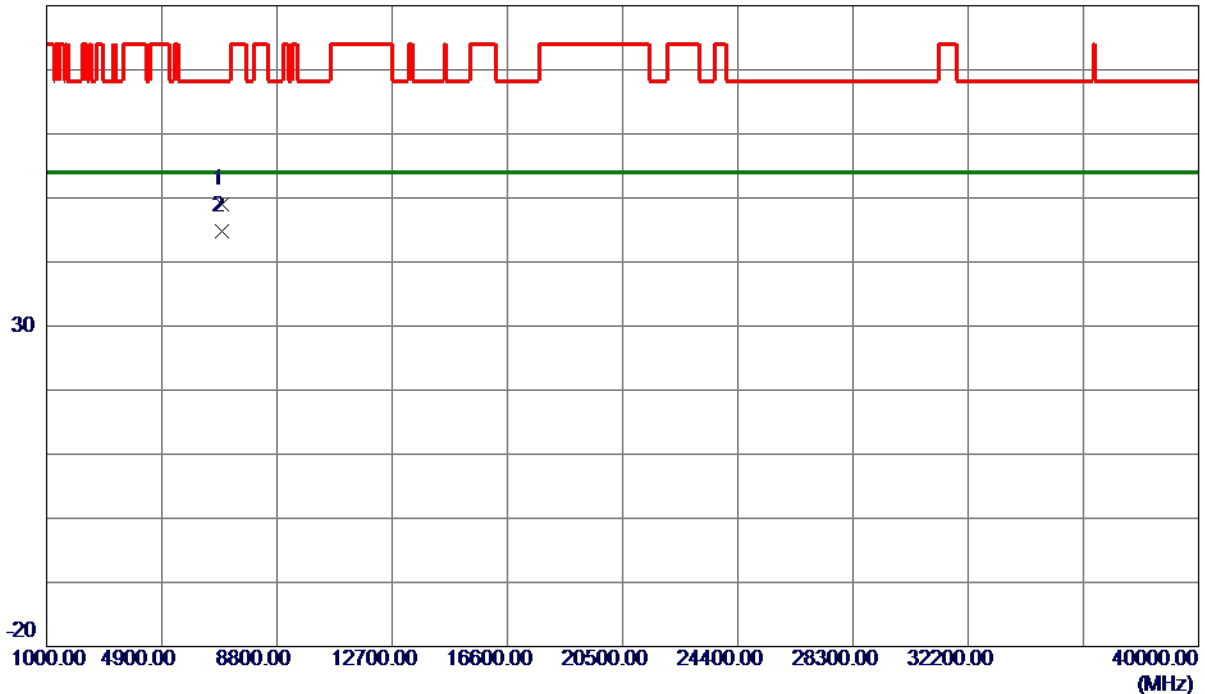
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6935.3500	40.21	8.73	48.94	68.30	-19.36	Peak	
2 *	6935.2870	36.14	8.73	44.87	54.00	-9.13	AVG	

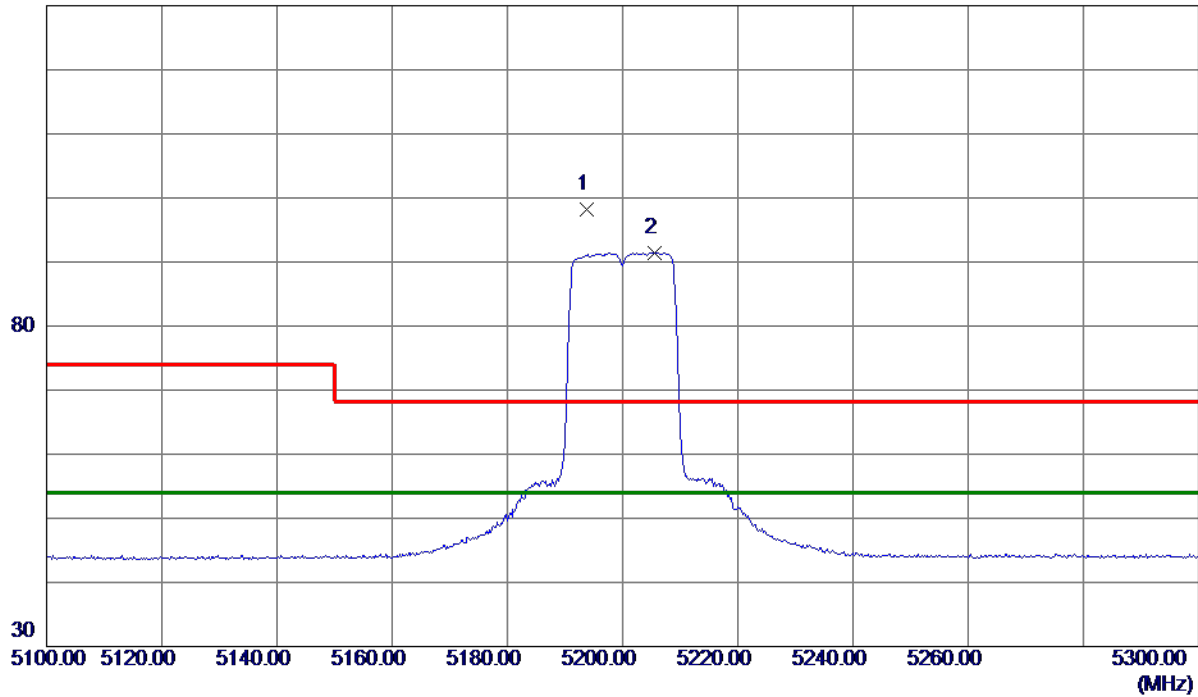
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5193.8000	83.52	14.62	98.14	68.30	29.84	Peak	No Limit
2 *	5205.6000	76.83	14.65	91.48	54.00	37.48	AVG	No Limit

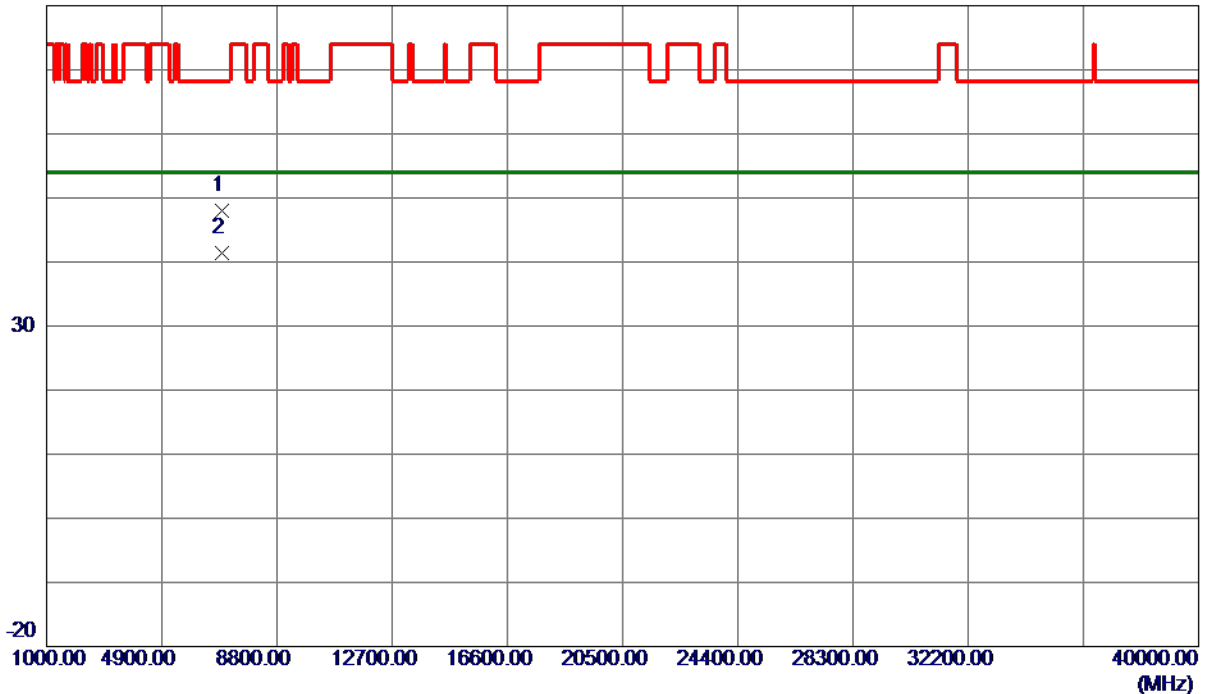
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6932.9950	39.31	8.72	48.03	68.30	-20.27	Peak	
2 *	6932.8460	32.64	8.72	41.36	54.00	-12.64	AVG	

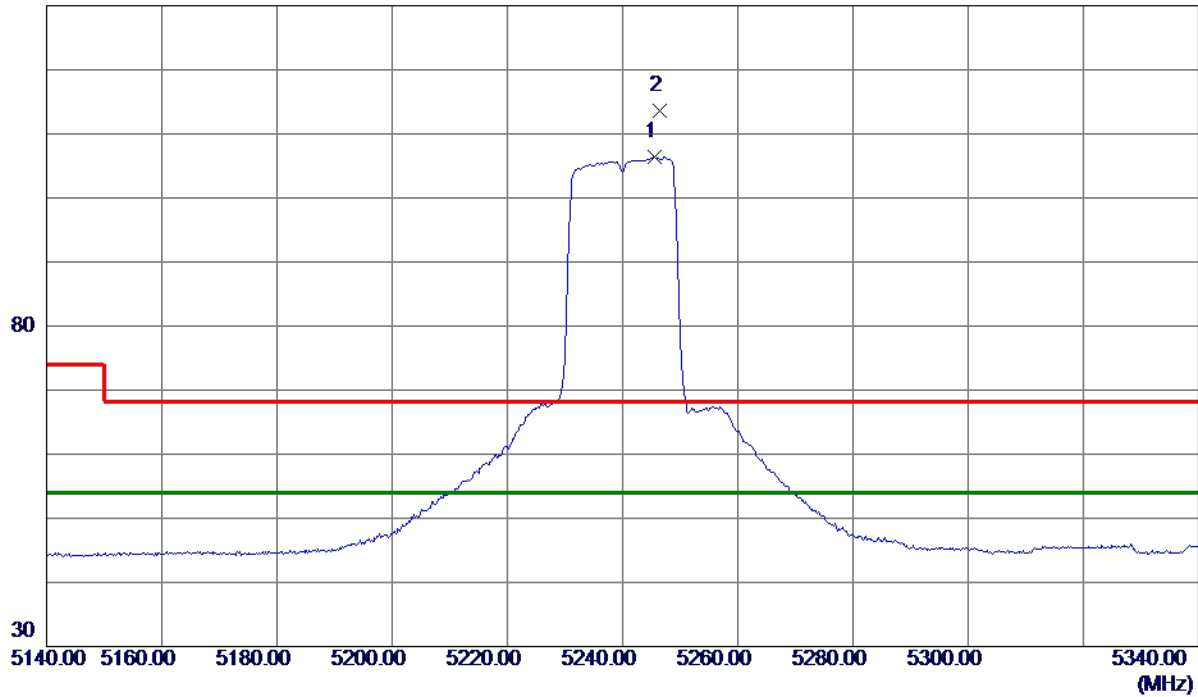
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5245.6000	91.57	14.75	106.32	54.00	52.32	AVG	No Limit
2	5246.4000	98.86	14.75	113.61	68.30	45.31	Peak	No Limit

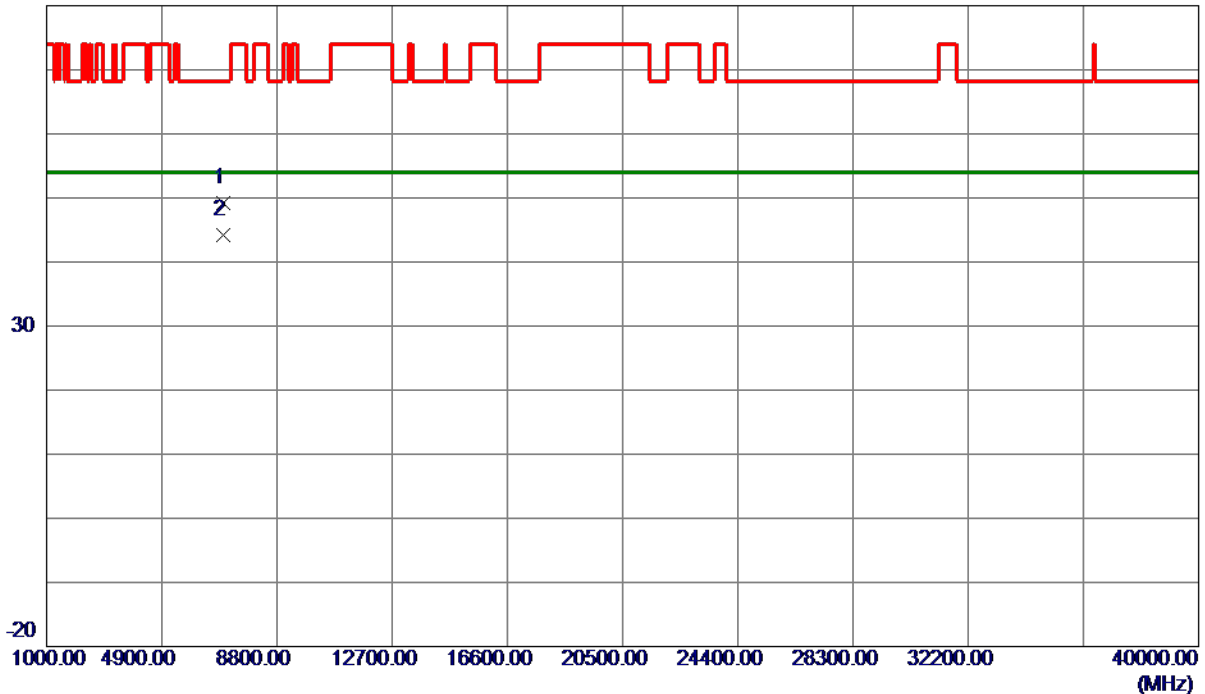
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6984.4000	40.41	8.84	49.25	68.30	-19.05	Peak	
2 *	6984.3610	35.40	8.84	44.24	54.00	-9.76	AVG	

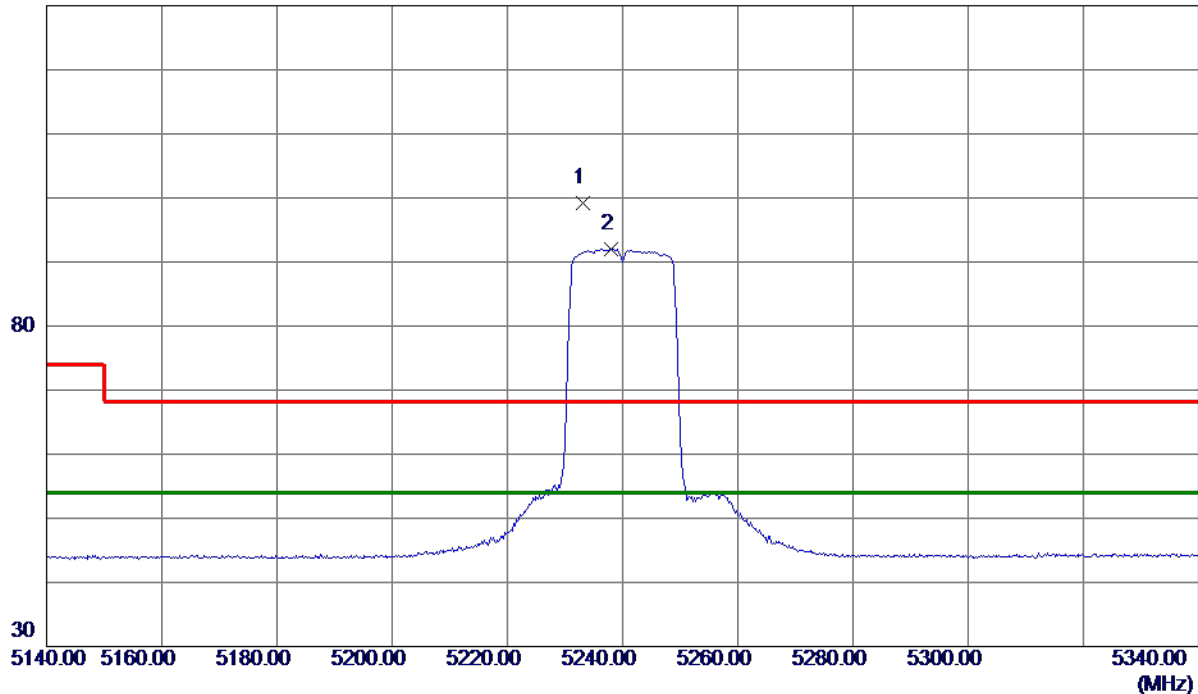
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5233.2000	84.57	14.72	99.29	68.30	30.99	Peak	No Limit
2 *	5238.0000	77.26	14.73	91.99	54.00	37.99	AVG	No Limit

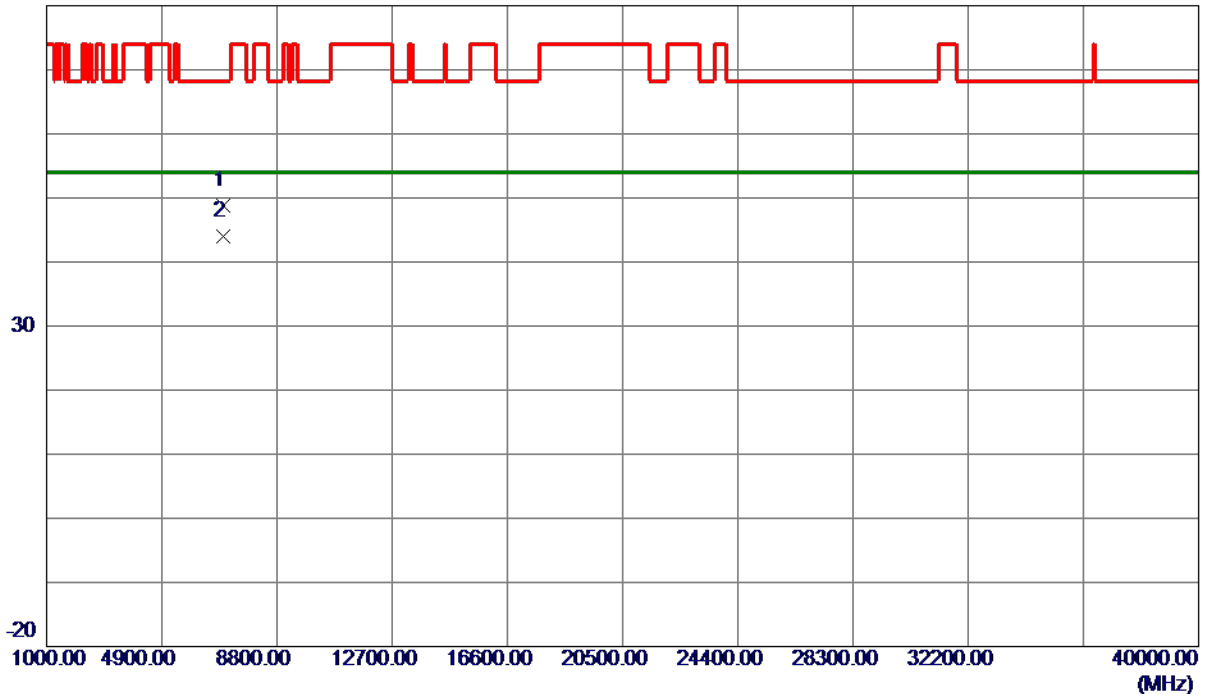
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6988.0100	40.02	8.84	48.86	68.30	-19.44	Peak	
2 *	6988.1340	35.24	8.84	44.08	54.00	-9.92	AVG	

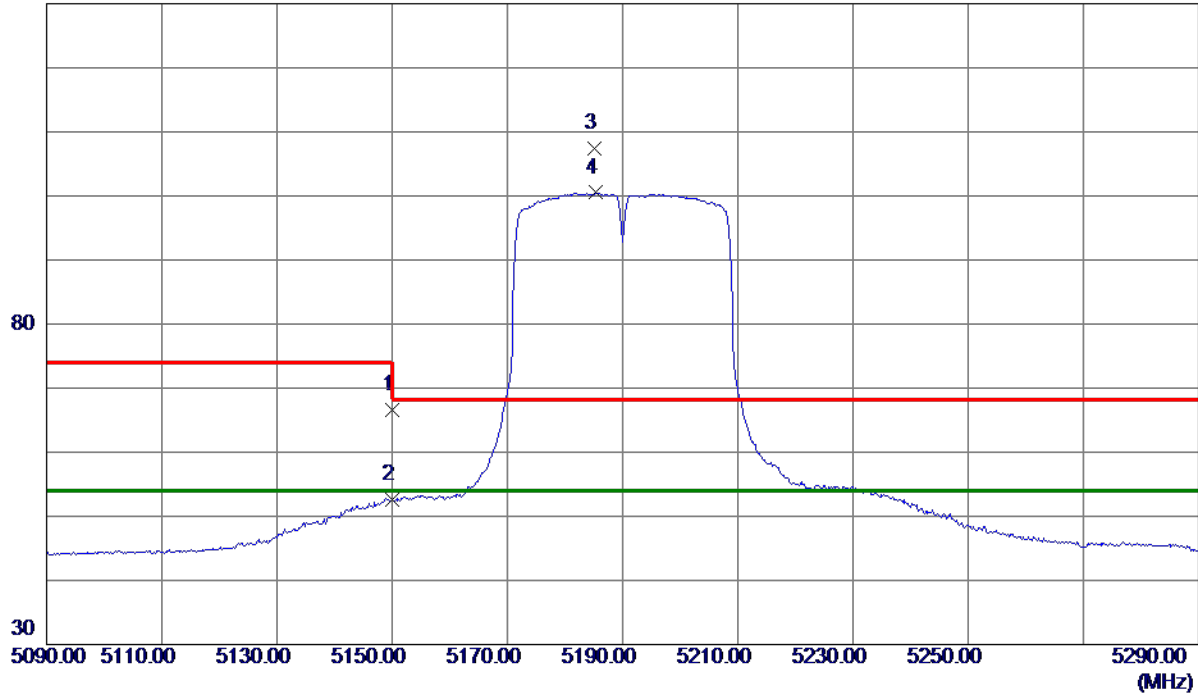
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	52.10	14.51	66.61	74.00	-7.39	Peak	
2	5150.0000	38.10	14.51	52.61	54.00	-1.39	AVG	
3	5185.2000	92.82	14.60	107.42	68.30	39.12	Peak	No Limit
4 *	5185.4000	85.90	14.60	100.50	54.00	46.50	AVG	No Limit

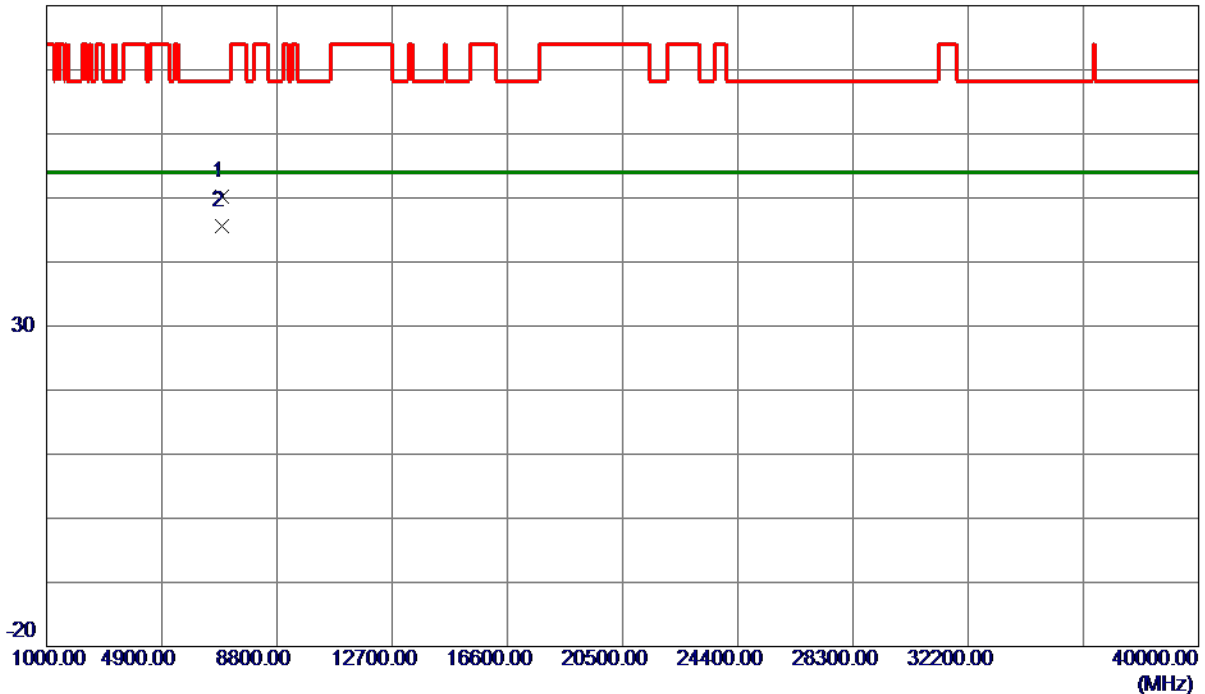
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6920.3350	41.48	8.70	50.18	68.30	-18.12	Peak	
2 *	6915.3280	36.93	8.69	45.62	54.00	-8.38	AVG	

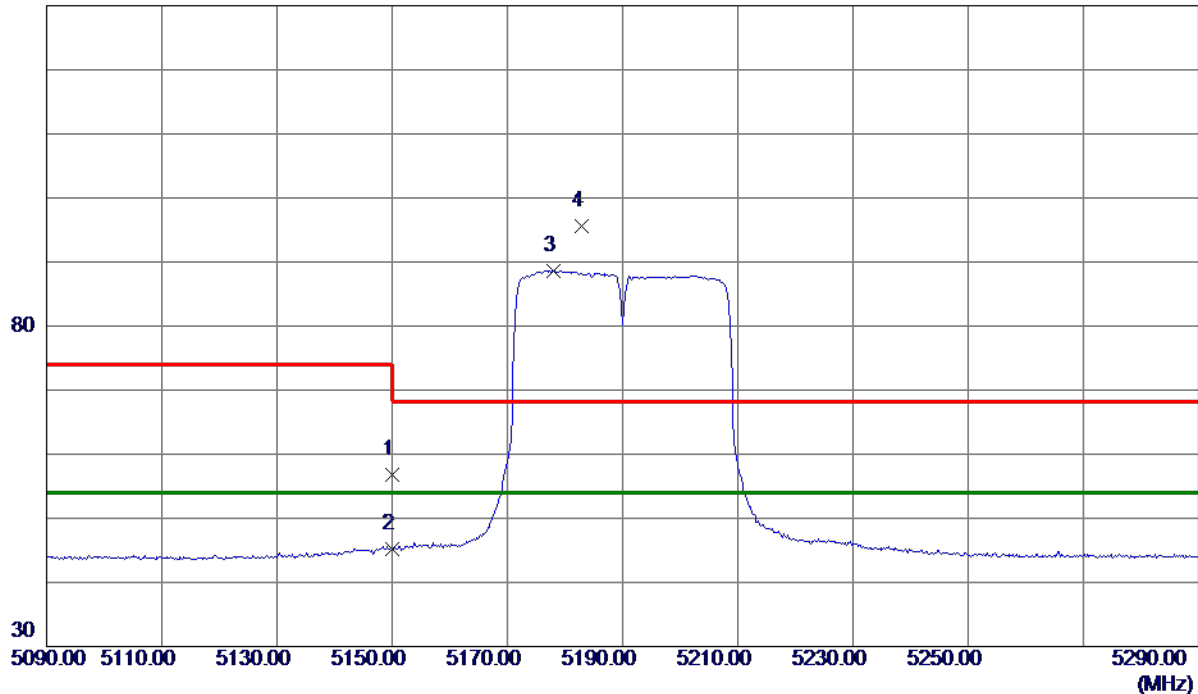
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	42.28	14.51	56.79	74.00	-17.21	Peak	
2	5150.0000	30.64	14.51	45.15	54.00	-8.85	AVG	
3 *	5178.0000	74.06	14.58	88.64	54.00	34.64	AVG	No Limit
4	5182.8000	80.94	14.59	95.53	68.30	27.23	Peak	No Limit

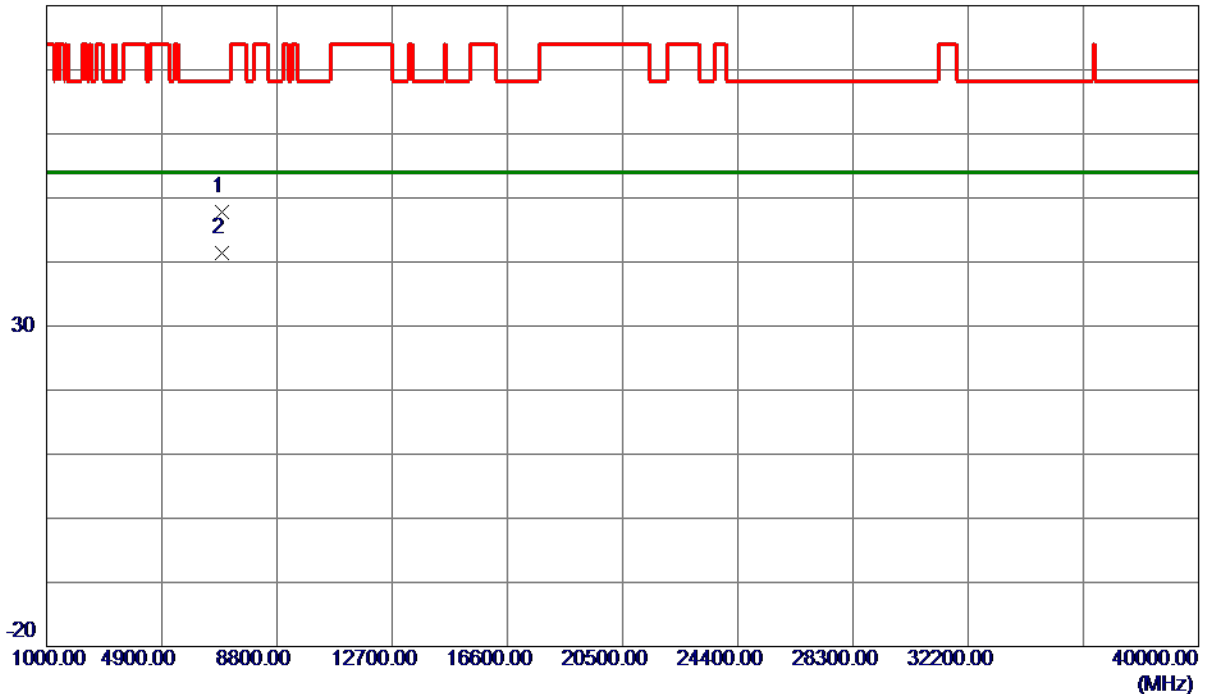
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6920.5300	39.18	8.70	47.88	68.30	-20.42	Peak	
2 *	6920.4130	32.78	8.70	41.48	54.00	-12.52	AVG	

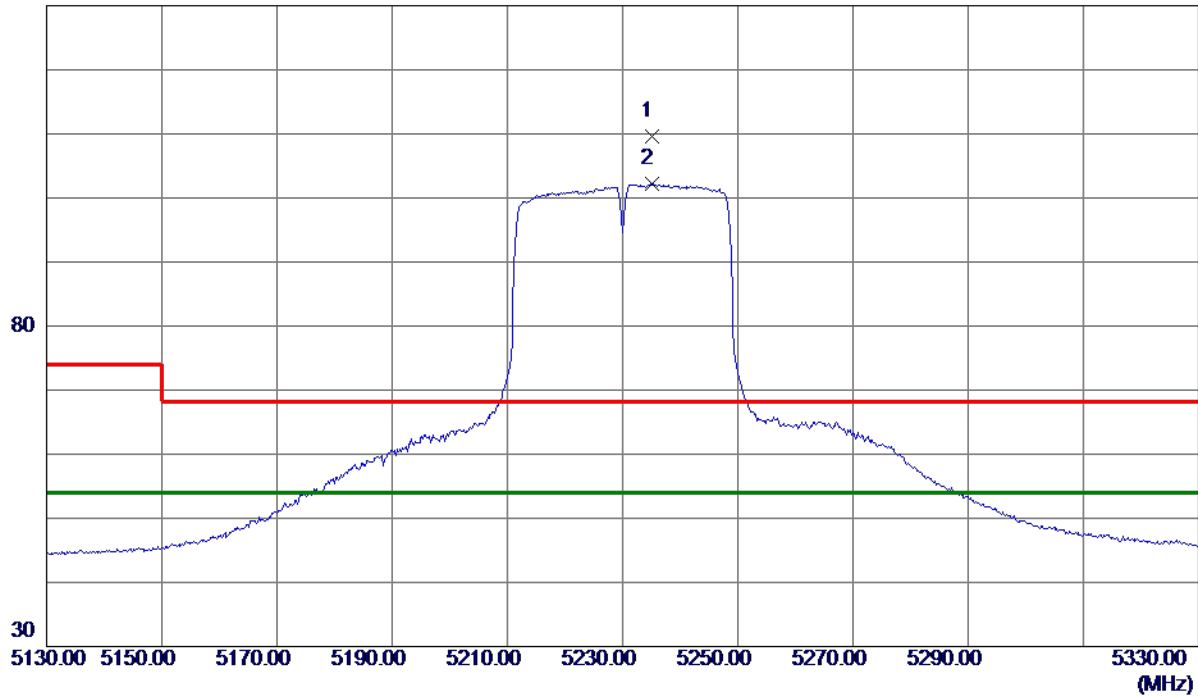
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5235.0000	94.80	14.72	109.52	68.30	41.22	Peak	No Limit
2 *	5235.0000	87.41	14.72	102.13	54.00	48.13	AVG	No Limit

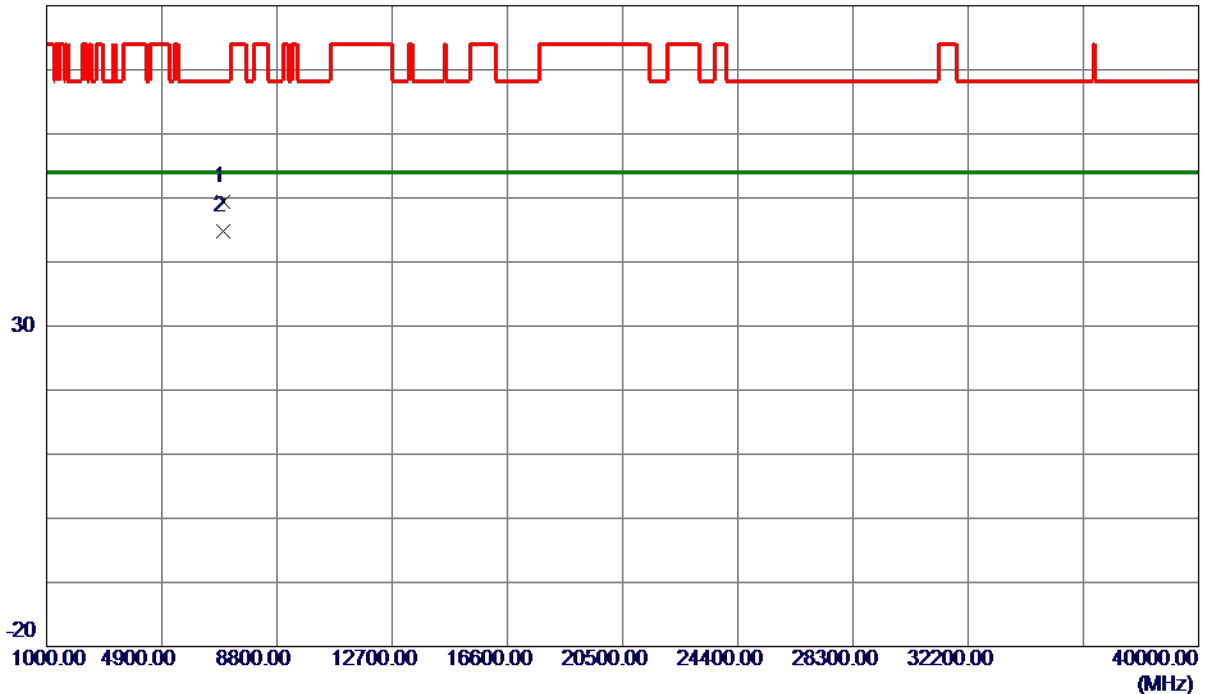
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6972.5800	40.52	8.81	49.33	68.30	-18.97	Peak	
2 *	6970.4630	35.94	8.81	44.75	54.00	-9.25	AVG	

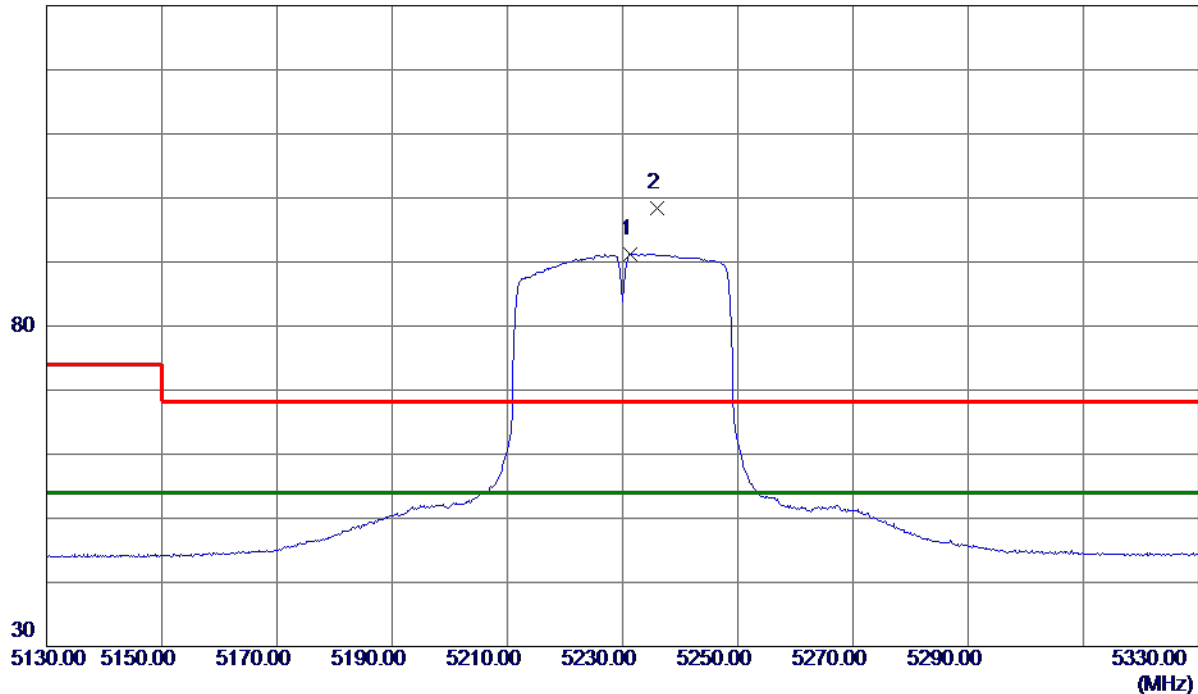
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5231.4000	76.53	14.72	91.25	54.00	37.25	AVG	No Limit
2	5236.0000	83.71	14.73	98.44	68.30	30.14	Peak	No Limit

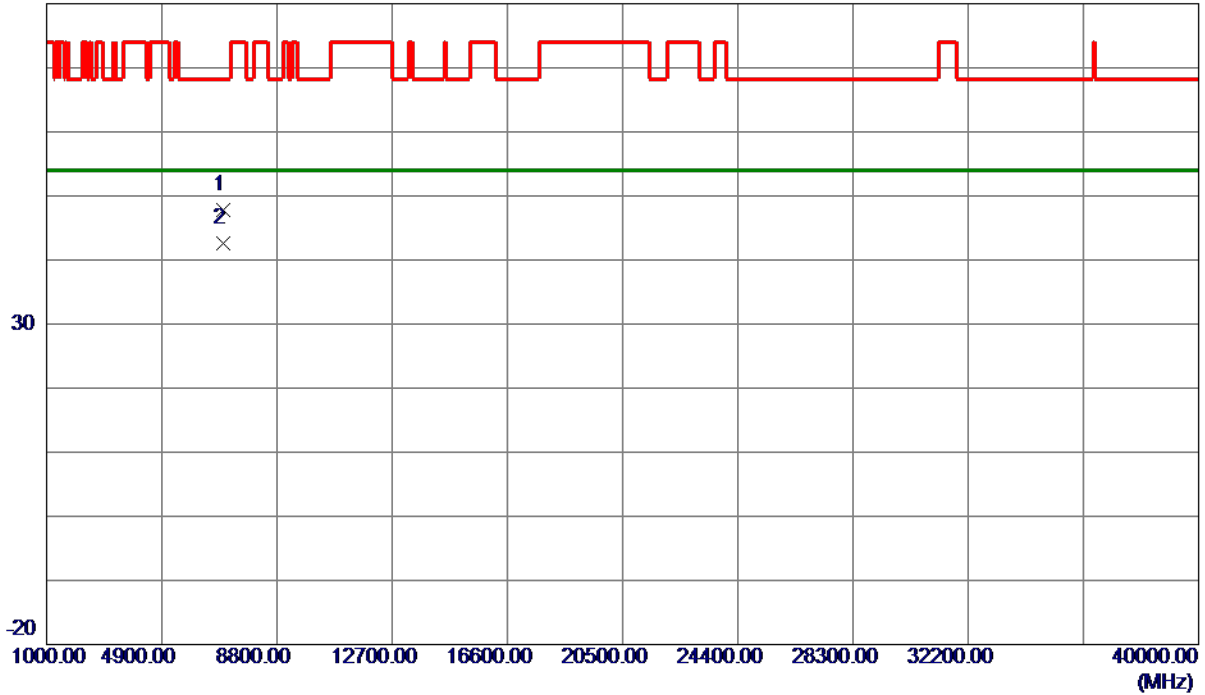
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6970.9550	39.08	8.81	47.89	68.30	-20.41	Peak	
2 *	6970.6270	33.71	8.81	42.52	54.00	-11.48	AVG	

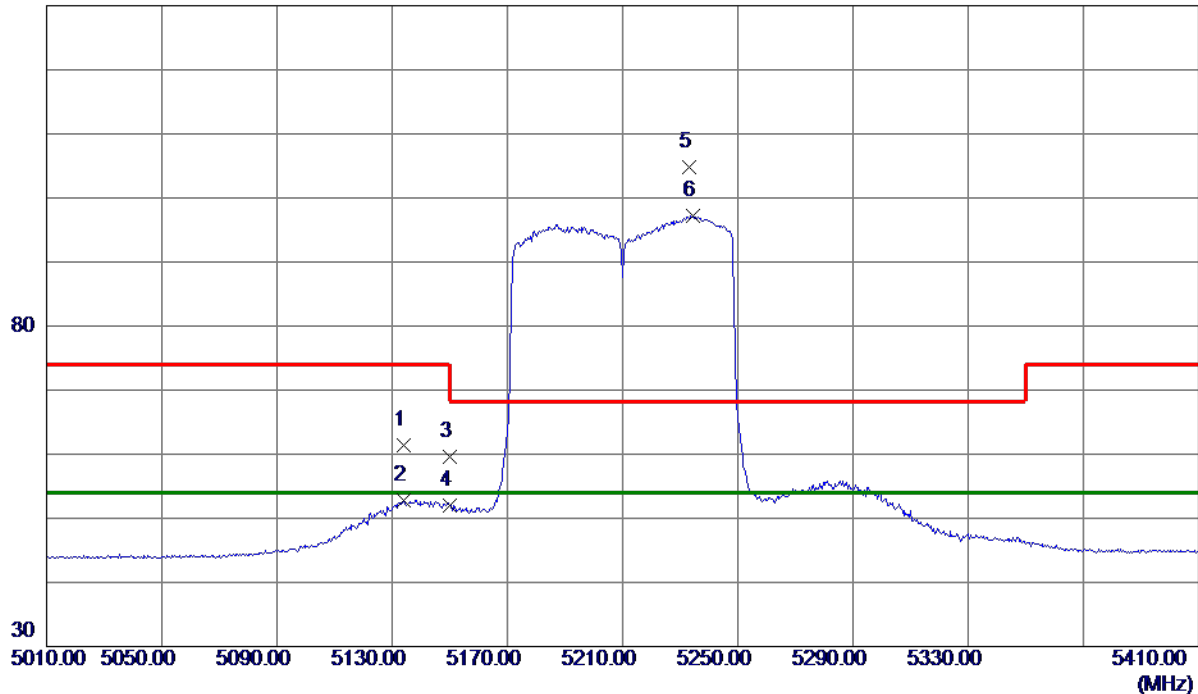
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5134.0000	46.87	14.47	61.34	74.00	-12.66	Peak	
2	5134.0000	38.35	14.47	52.82	54.00	-1.18	AVG	
3	5150.0000	45.02	14.51	59.53	74.00	-14.47	Peak	
4	5150.0000	37.53	14.51	52.04	54.00	-1.96	AVG	
5	5233.2000	90.15	14.72	104.87	68.30	36.57	Peak	No Limit
6 *	5234.4000	82.43	14.72	97.15	54.00	43.15	AVG	No Limit

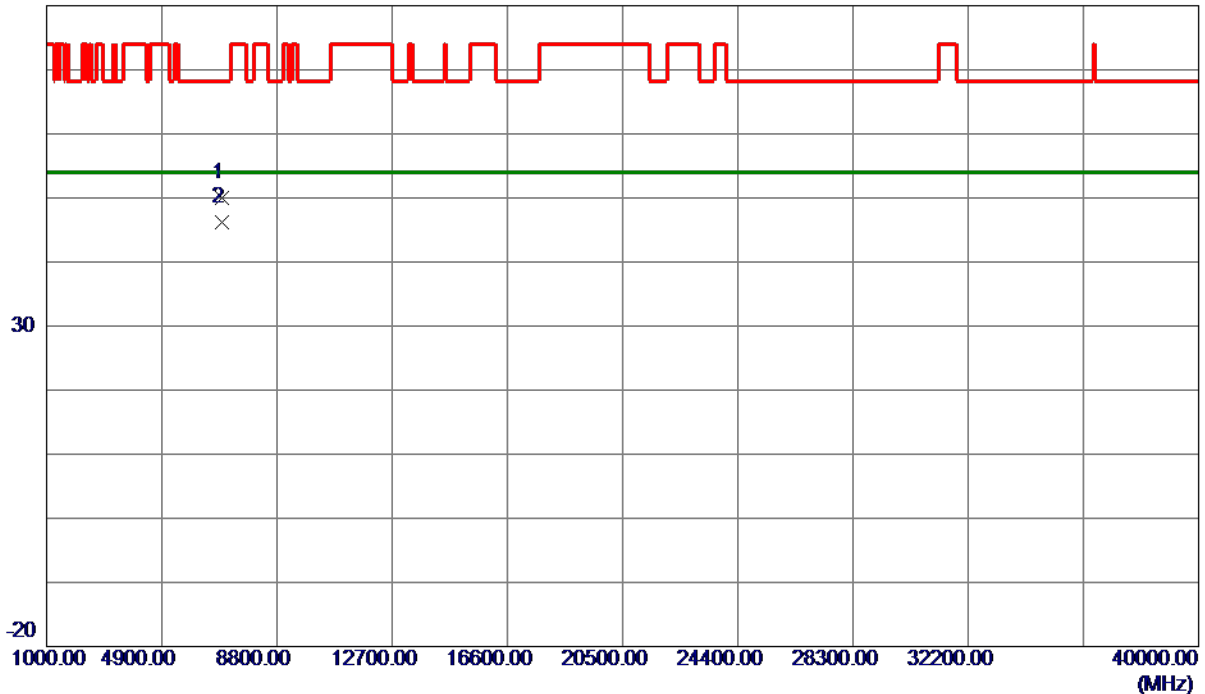
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6946.4550	41.34	8.75	50.09	68.30	-18.21	Peak	
2 *	6945.2560	37.41	8.75	46.16	54.00	-7.84	AVG	

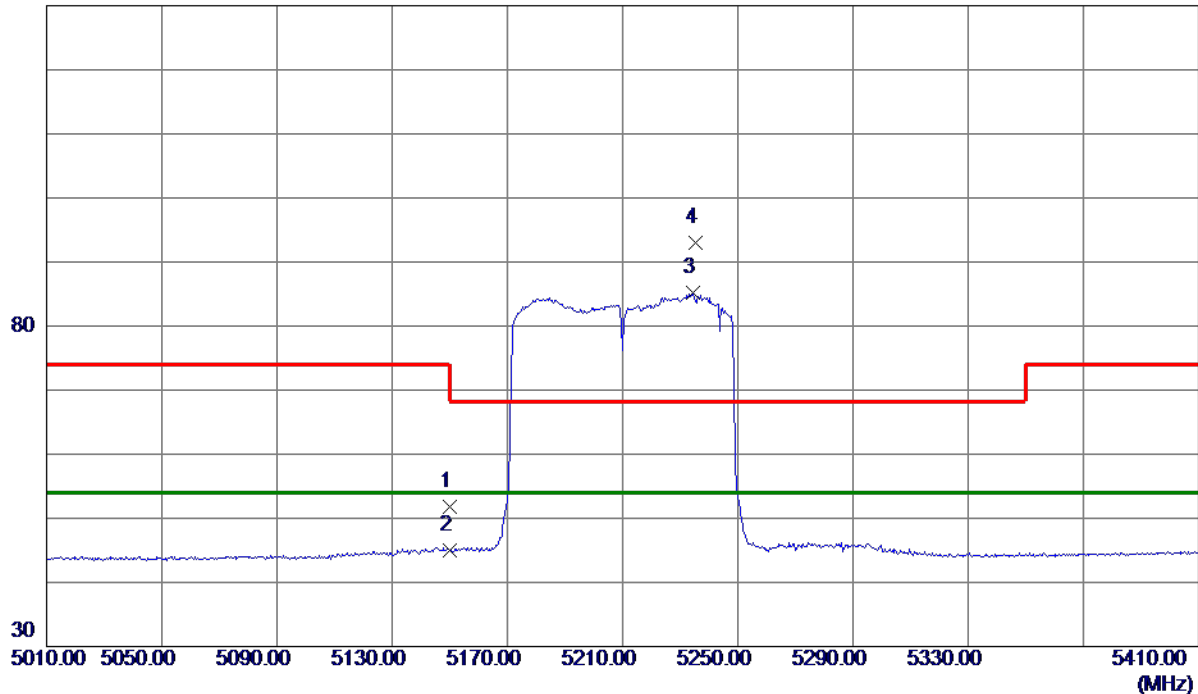
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.37	14.51	51.88	74.00	-22.12	Peak	
2	5150.0000	30.58	14.51	45.09	54.00	-8.91	AVG	
3 *	5234.4000	70.43	14.72	85.15	54.00	31.15	AVG	No Limit
4	5235.2000	78.17	14.73	92.90	68.30	24.60	Peak	No Limit

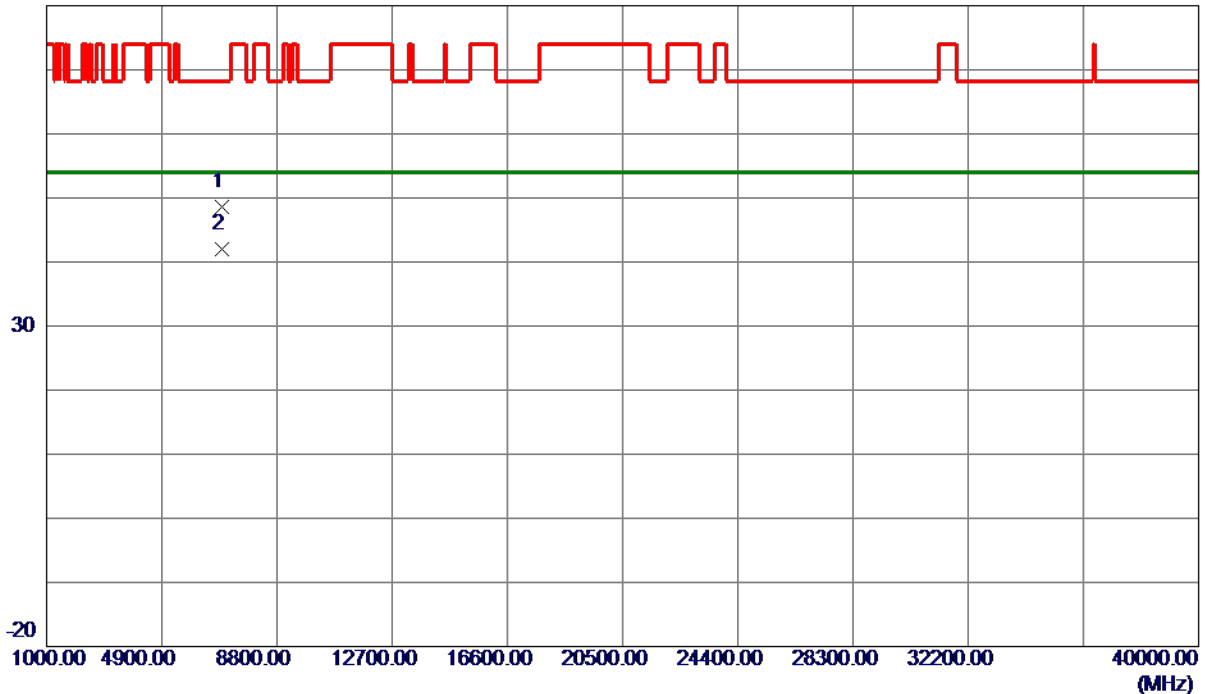
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

Horizontal

80 dBuV/m



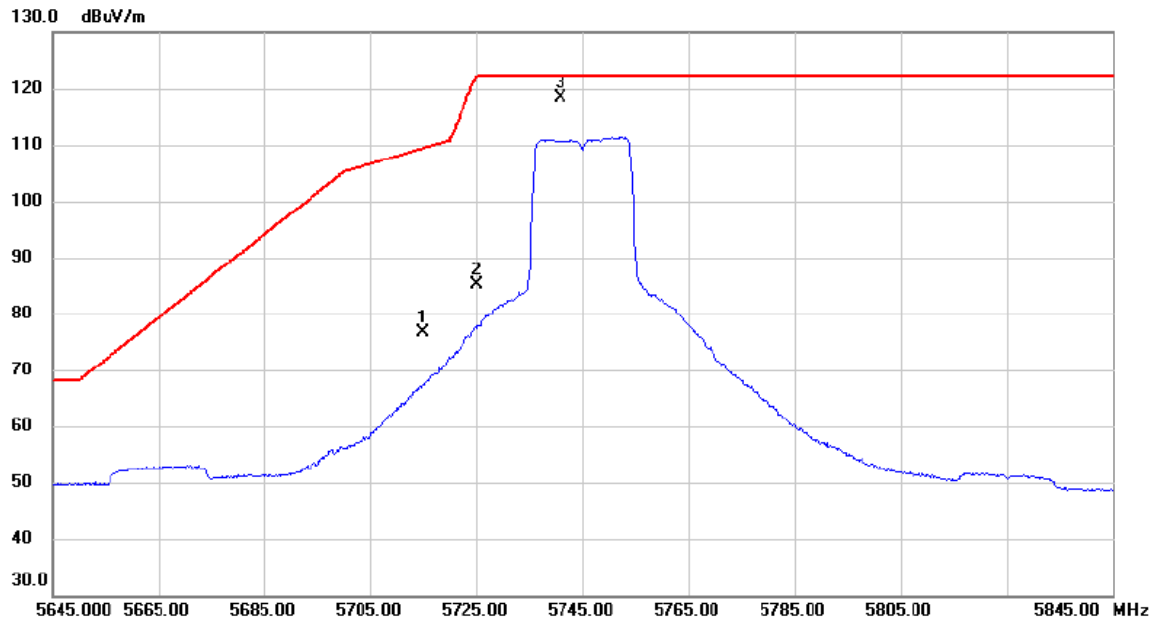
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	6944.3950	39.94	8.75	48.69	68.30	-19.61	Peak	
2 *	6943.4260	33.28	8.75	42.03	54.00	-11.97	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5715.000	60.68	15.86	76.54	109.40	-32.86	peak	
2		5725.000	69.17	15.88	85.05	122.20	-37.15	peak	
3	*	5740.800	102.41	15.91	118.32	122.20	-3.88	peak	No Limit

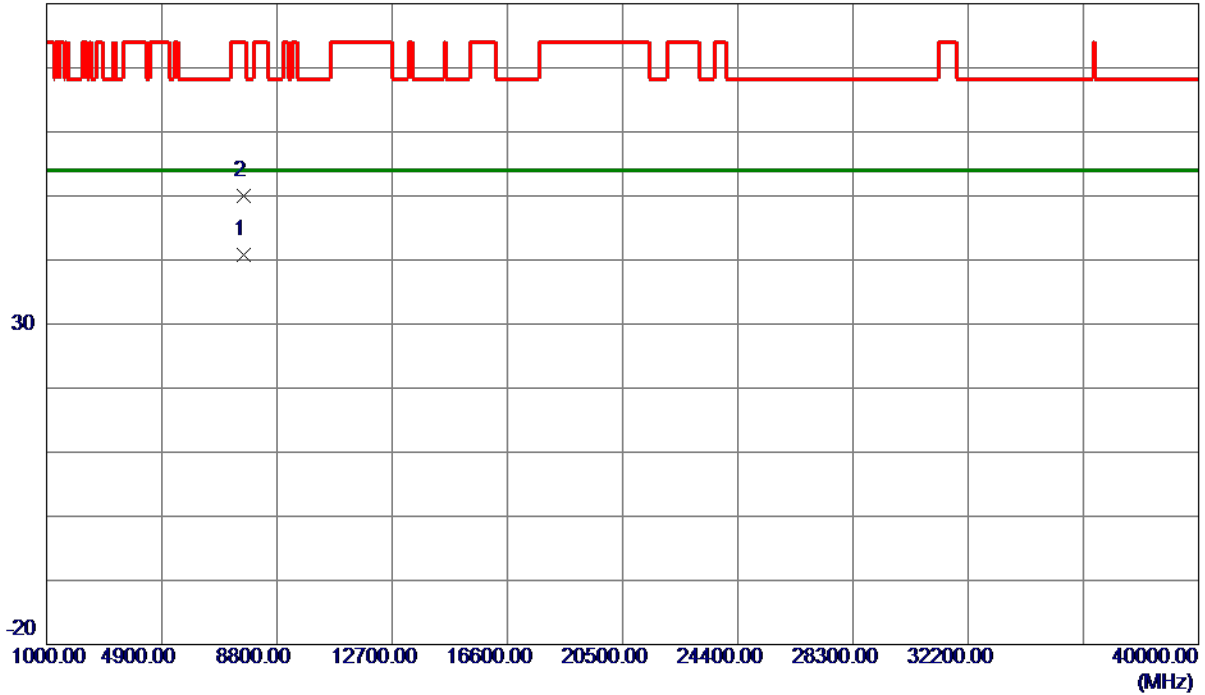
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Vertical

80 dBuV/m



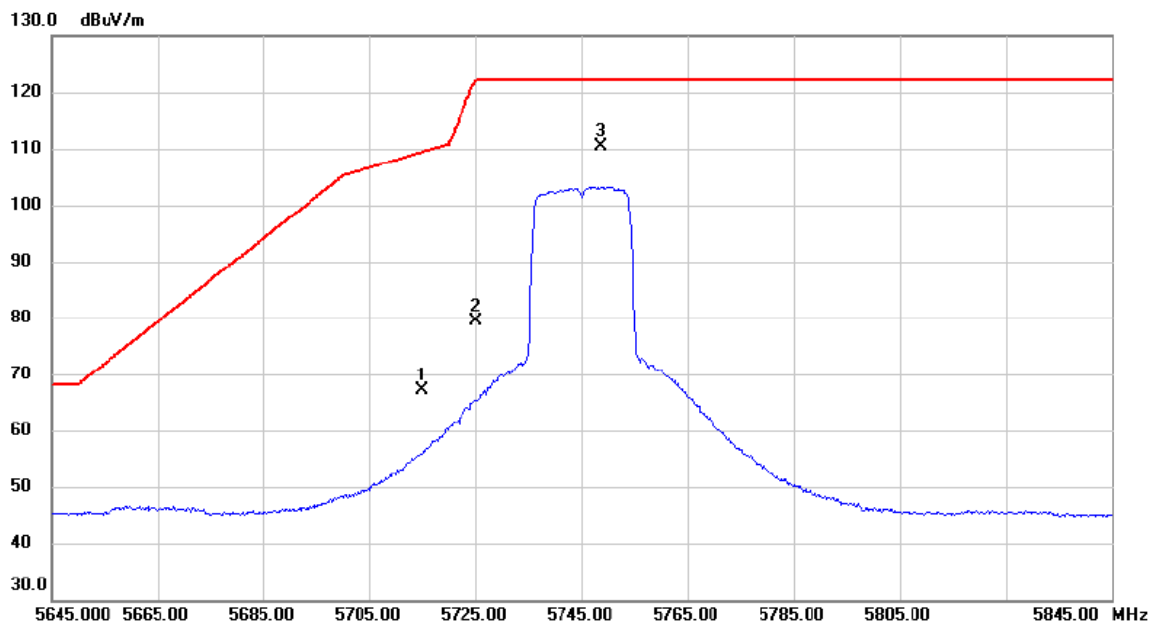
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7660.1550	31.34	9.53	40.87	54.00	-13.13	AVG	
2	7660.1900	40.38	9.53	49.91	74.00	-24.09	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	51.30	15.86	67.16	109.40	-42.24	peak	
2		5725.000	63.62	15.88	79.50	122.20	-42.70	peak	
3	*	5748.600	94.53	15.93	110.46	122.20	-11.74	peak	No Limit

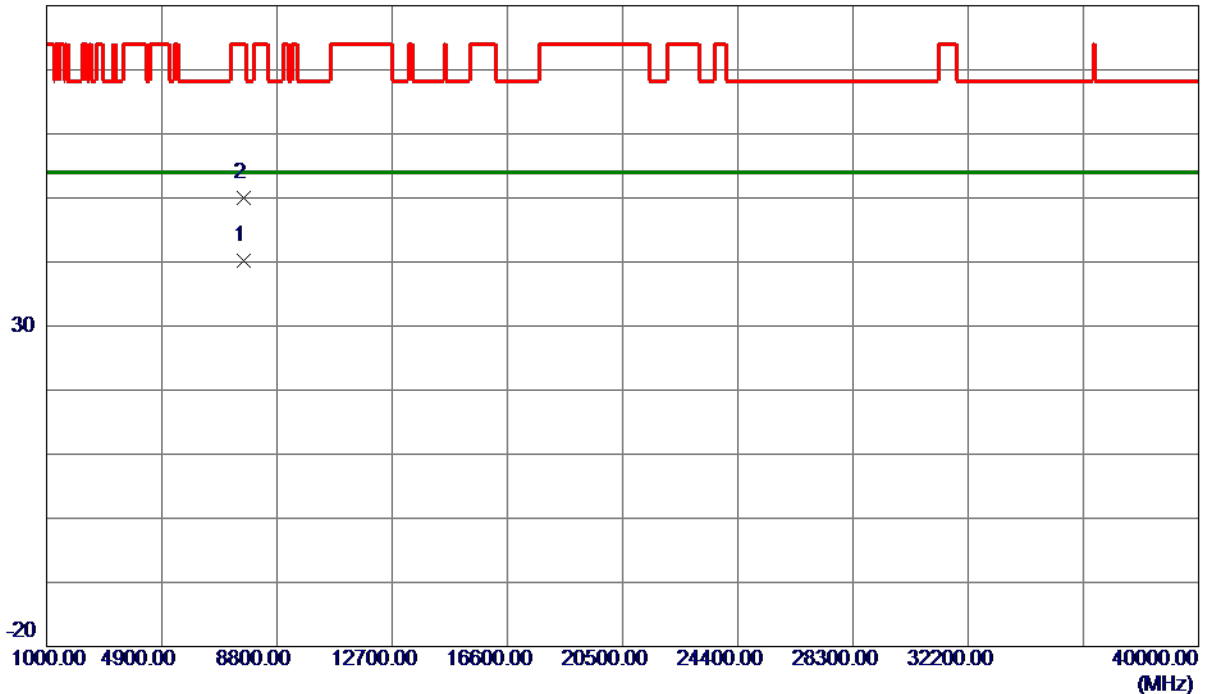
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

Horizontal

80 dBuV/m



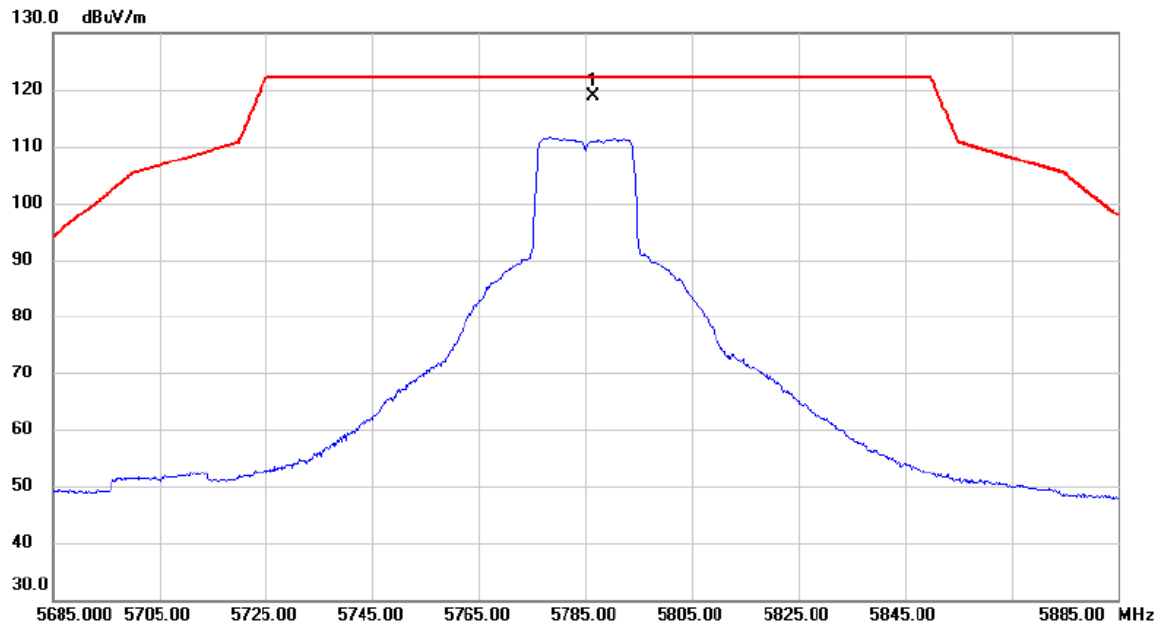
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7660.1150	30.71	9.53	40.24	54.00	-13.76	AVG	
2	7660.2650	40.42	9.53	49.95	74.00	-24.05	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5786.400	102.88	16.01	118.89	122.20	-3.31	peak	No Limit

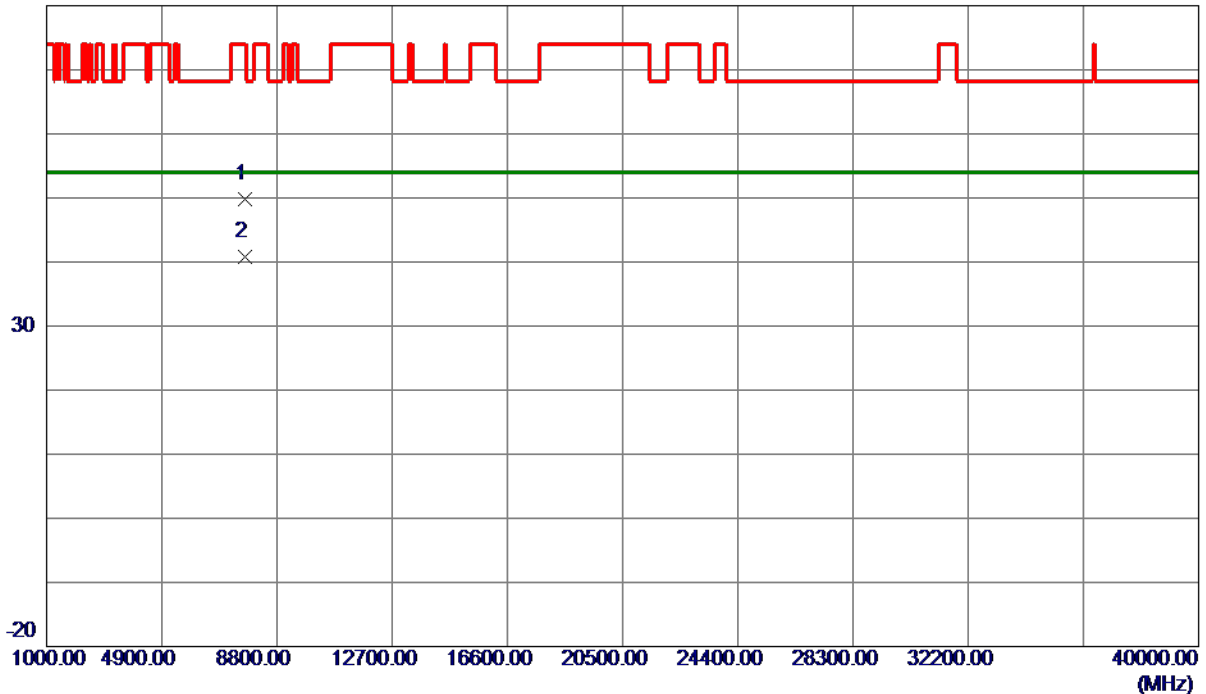
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Vertical

80 dBuV/m



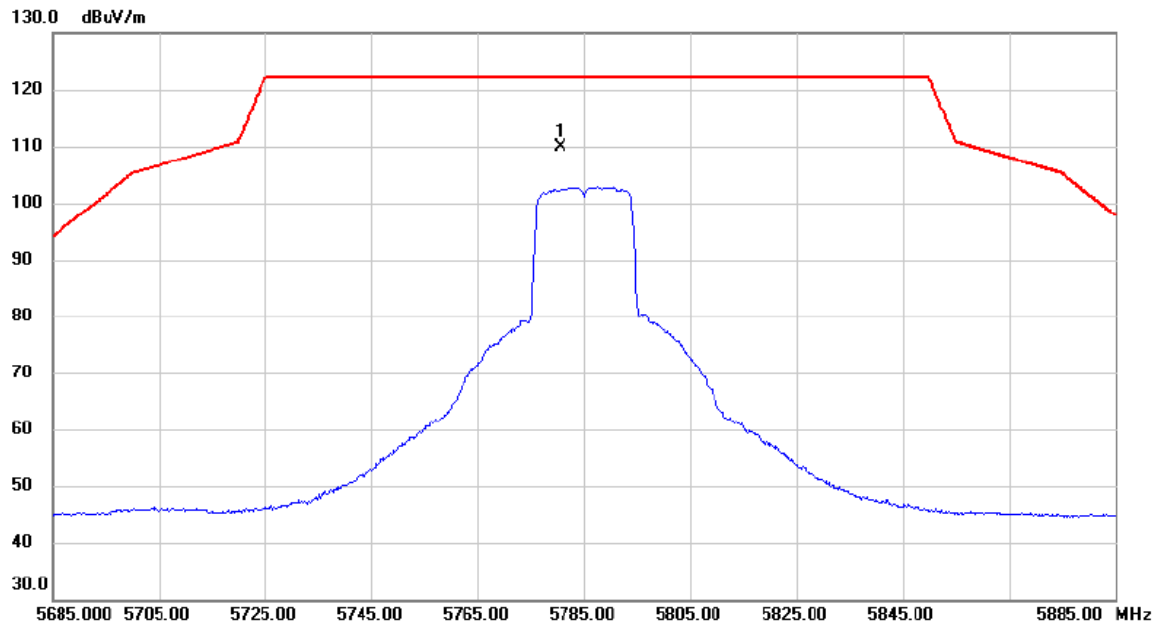
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7713.2200	40.22	9.51	49.73	74.00	-24.27	Peak	
2 *	7713.4350	31.28	9.51	40.79	54.00	-13.21	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5780.600	93.83	16.00	109.83	122.20	-12.37	peak	No Limit

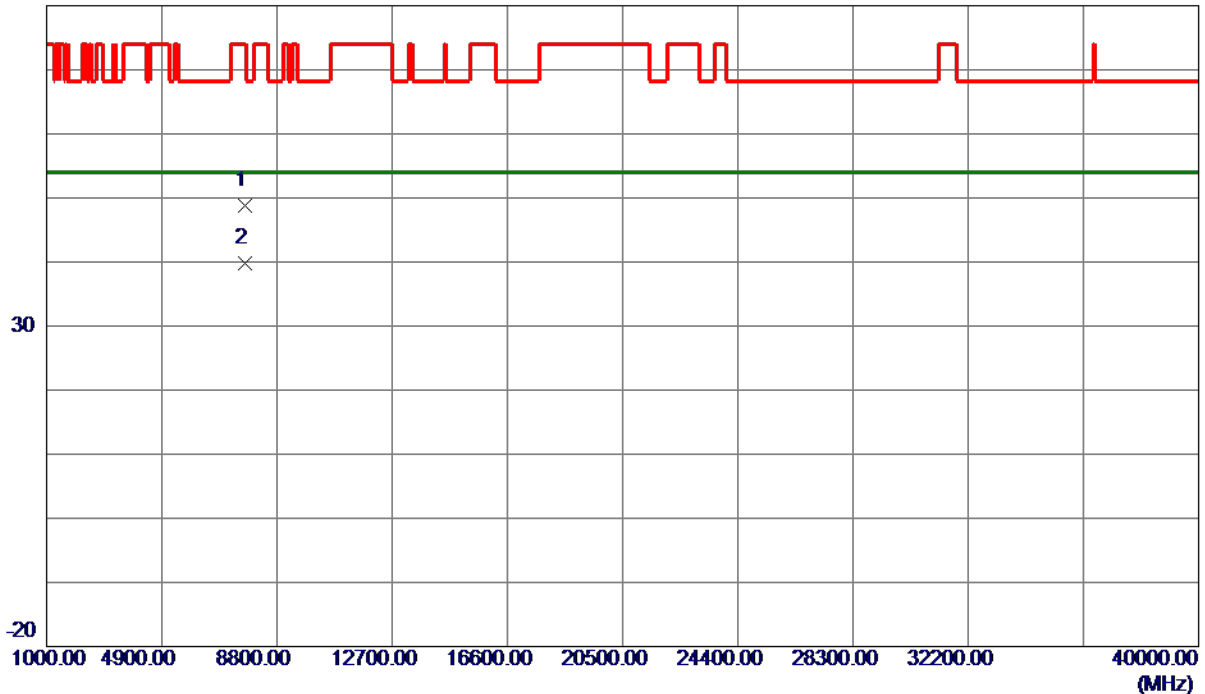
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

Horizontal

80 dBuV/m



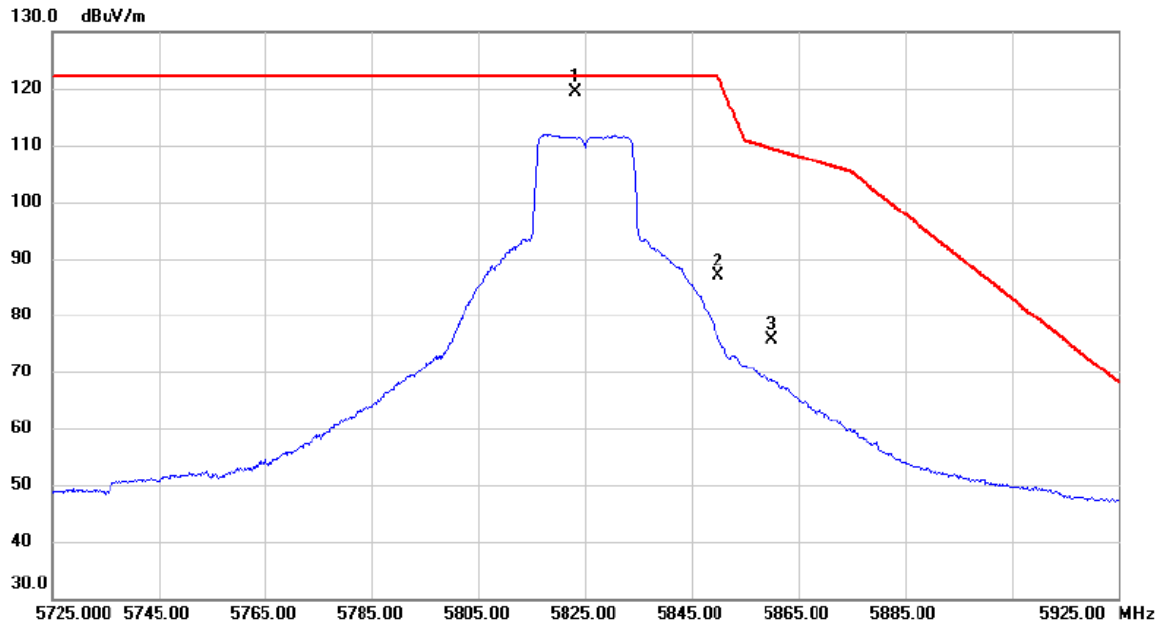
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7713.2950	39.26	9.51	48.77	74.00	-25.23	Peak	
2 *	7713.4100	30.37	9.51	39.88	54.00	-14.12	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5823.200	103.23	16.10	119.33	122.20	-2.87	peak	No Limit
2		5850.000	70.62	16.16	86.78	122.20	-35.42	peak	
3		5860.000	59.47	16.18	75.65	109.40	-33.75	peak	

REMARKS:

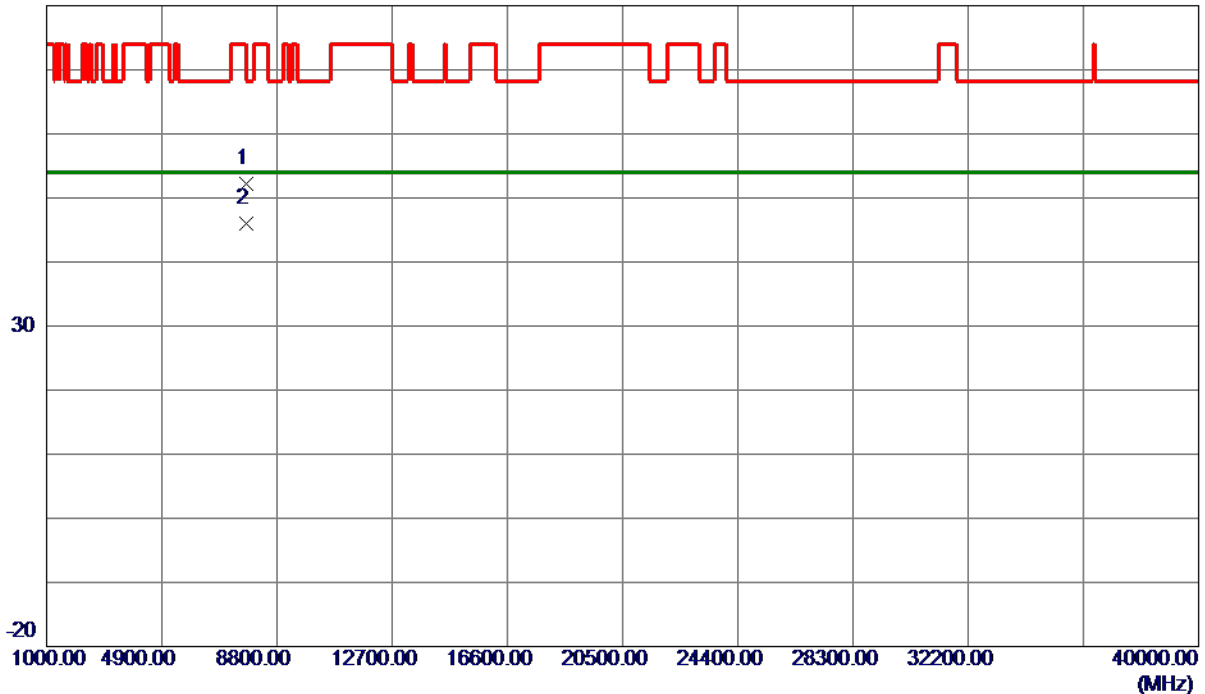
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Vertical

80 dBuV/m



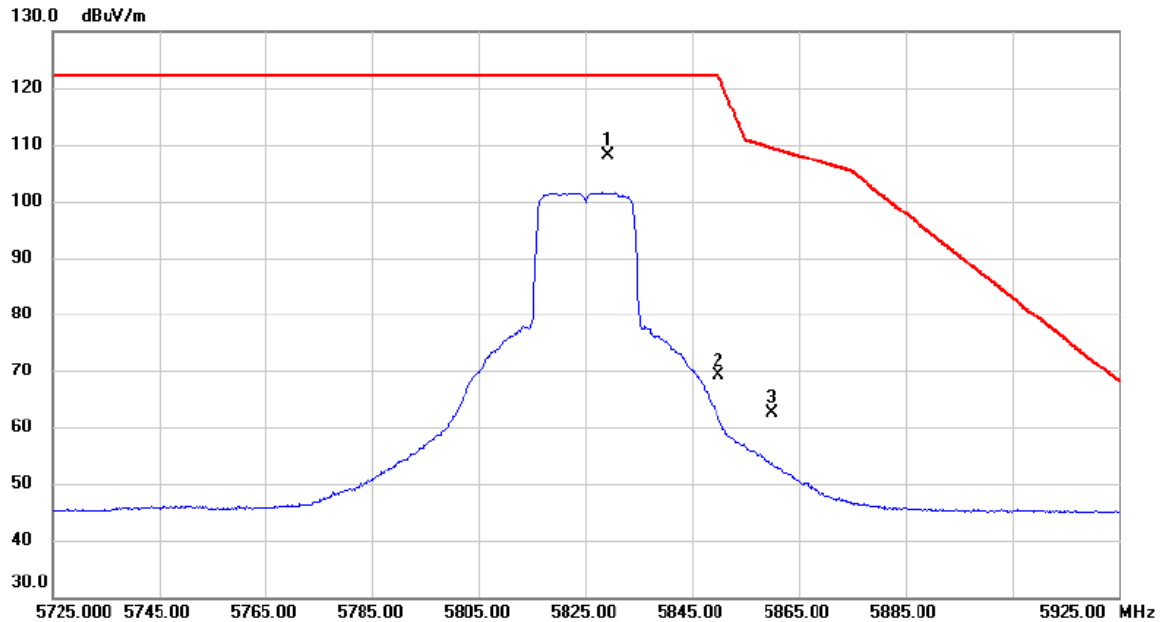
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7766.8650	42.72	9.49	52.21	68.30	-16.09	Peak	
2 *	7766.5410	36.42	9.49	45.91	54.00	-8.09	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5829.000	92.06	16.11	108.17	122.20	-14.03	peak	No Limit
2		5850.000	52.96	16.16	69.12	122.20	-53.08	peak	
3		5860.000	46.36	16.18	62.54	109.40	-46.86	peak	

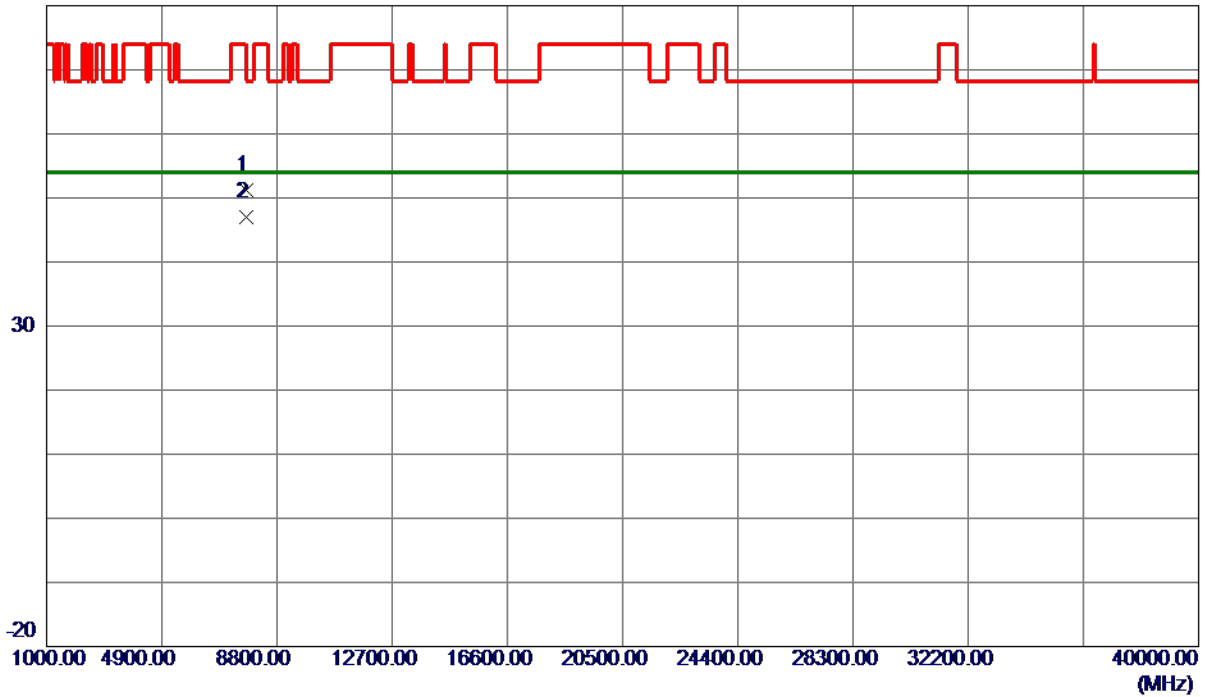
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT20) Mode 5825 MHz

Horizontal

80 dBuV/m



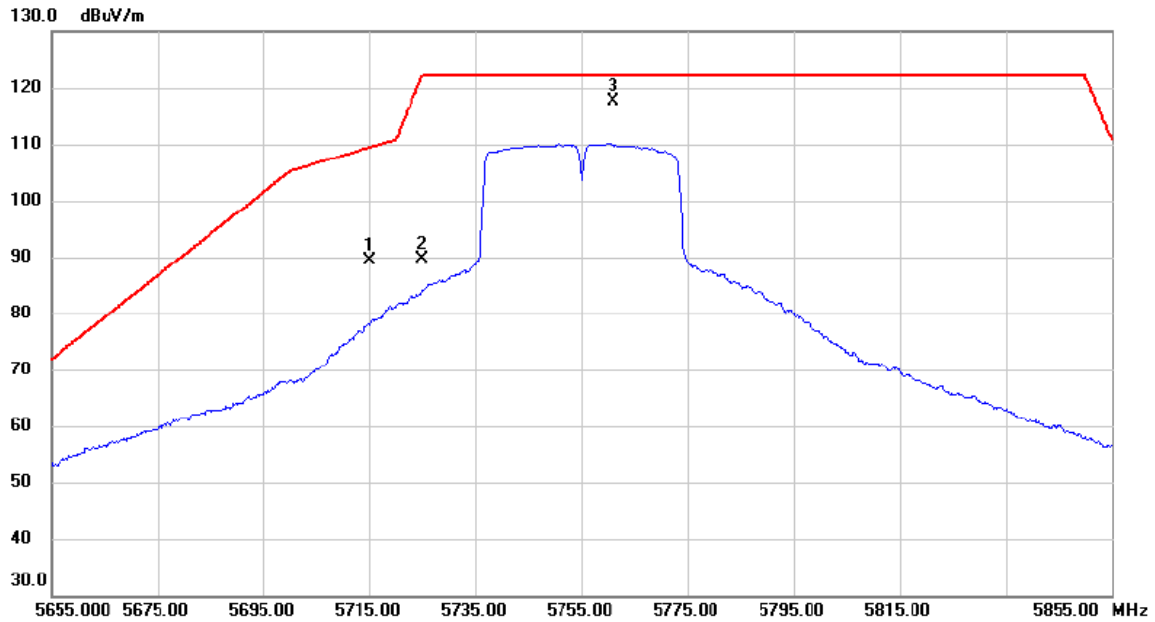
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7766.7850	41.76	9.49	51.25	68.30	-17.05	Peak	
2 *	7766.6210	37.44	9.49	46.93	54.00	-7.07	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	73.51	15.86	89.37	109.40	-20.03	peak	
2		5725.000	73.76	15.88	89.64	122.20	-32.56	peak	
3 *		5761.000	101.69	15.96	117.65	122.20	-4.55	peak	No Limit

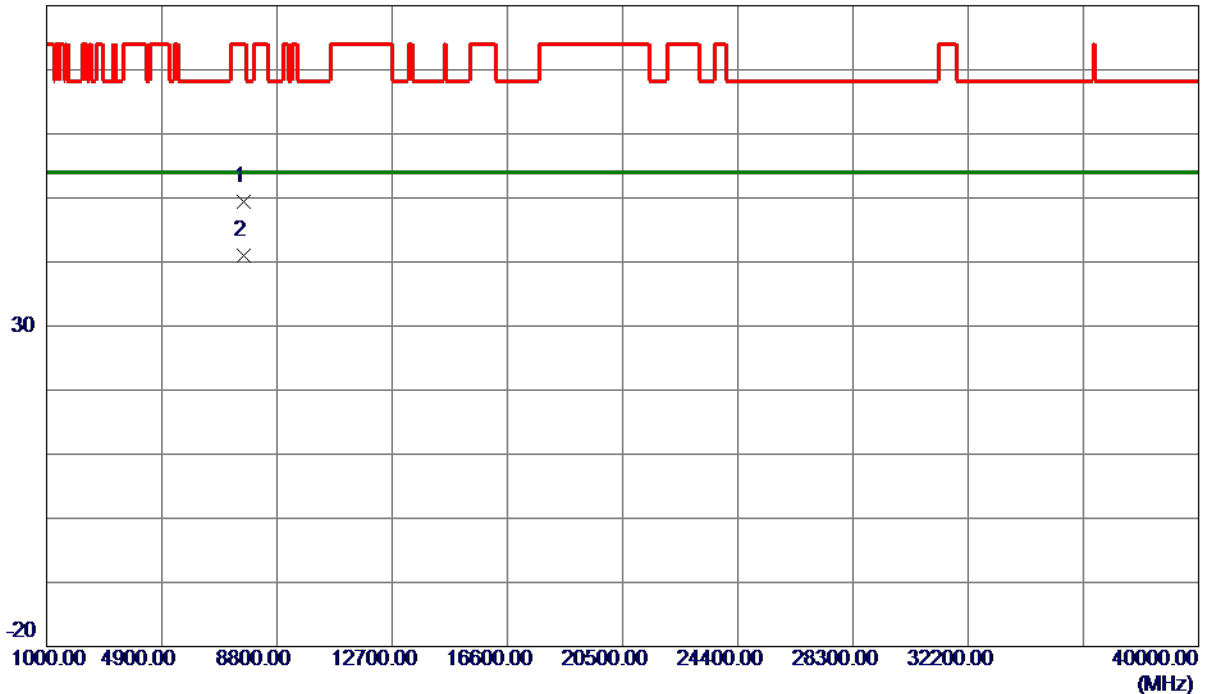
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Vertical

80 dBuV/m



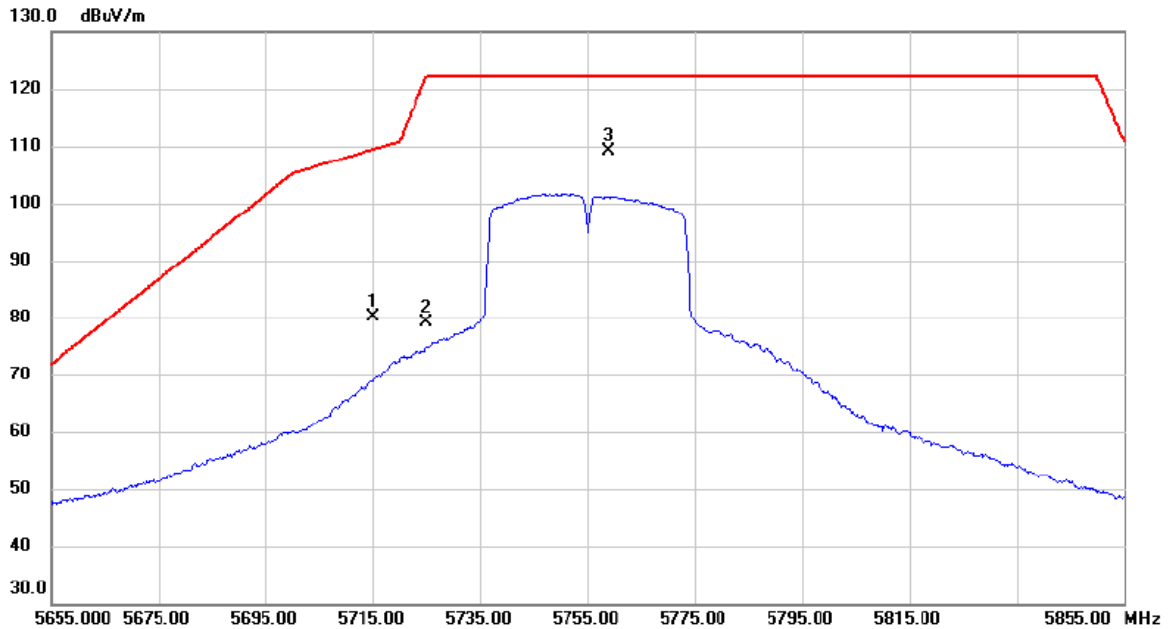
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7673.1600	39.97	9.52	49.49	74.00	-24.51	Peak	
2 *	7673.3500	31.57	9.52	41.09	54.00	-12.91	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	64.32	15.86	80.18	109.40	-29.22	peak	
2		5725.000	63.34	15.88	79.22	122.20	-42.98	peak	
3	*	5758.800	93.10	15.96	109.06	122.20	-13.14	peak	No Limit

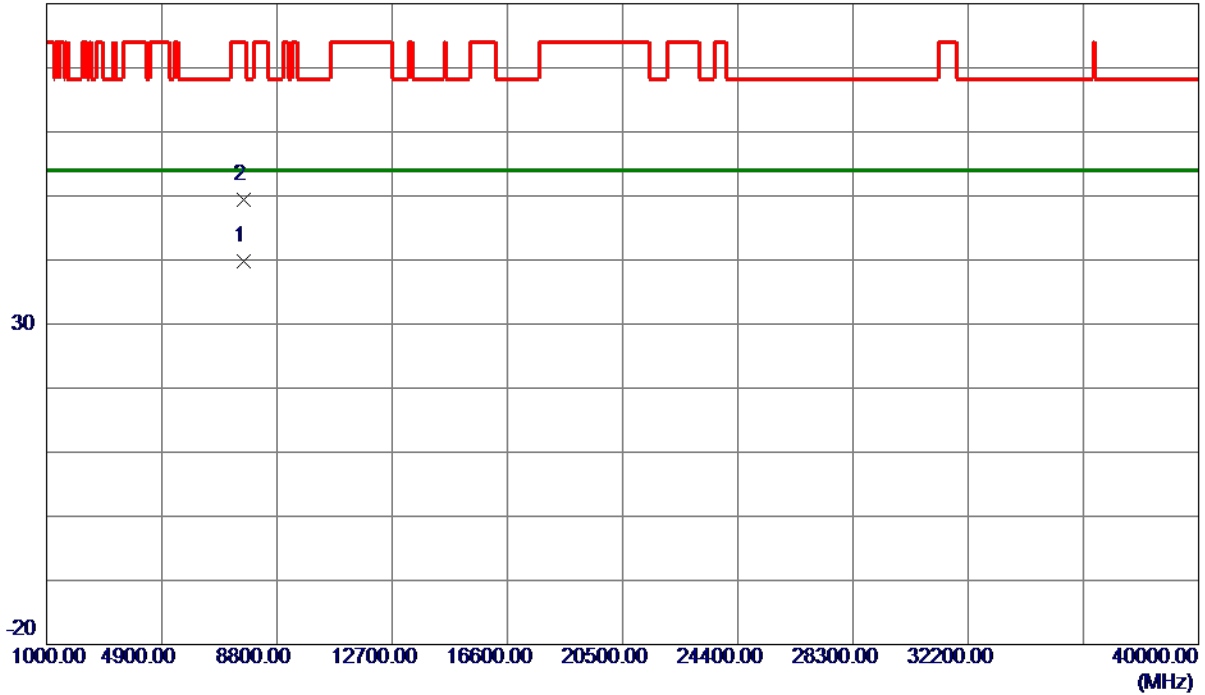
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5755 MHz

Horizontal

80 dBuV/m



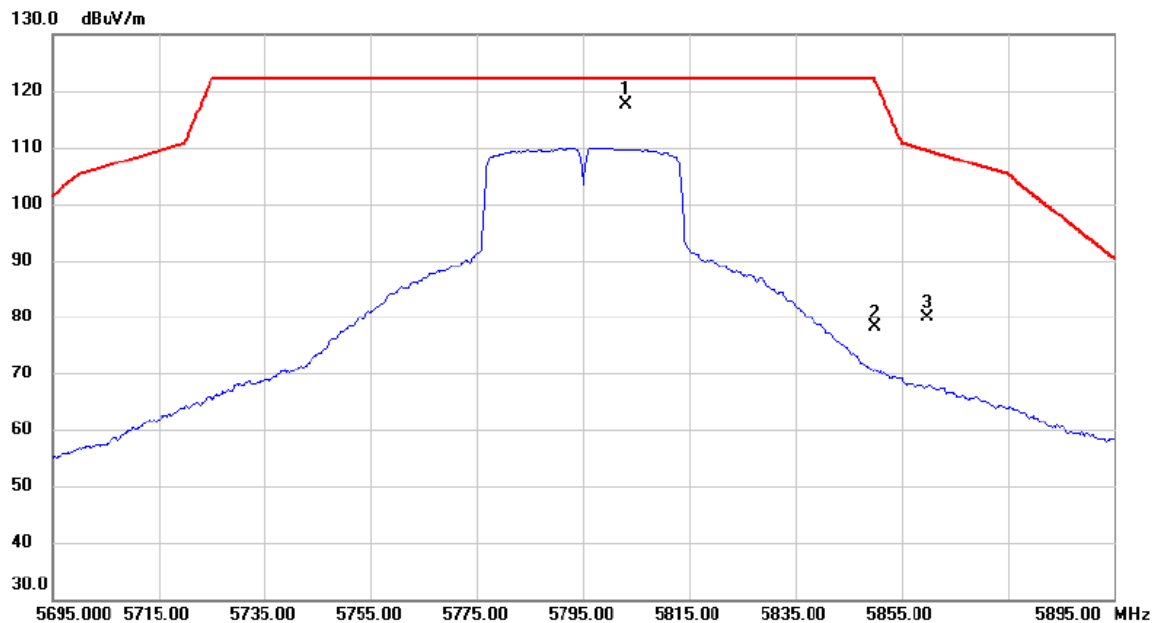
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7673.4250	30.37	9.52	39.89	54.00	-14.11	AVG	
2	7673.7350	39.92	9.52	49.44	74.00	-24.56	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5803.200	101.49	16.06	117.55	122.20	-4.65	peak	No Limit
2		5850.000	61.99	16.16	78.15	122.20	-44.05	peak	
3		5860.000	63.66	16.18	79.84	109.40	-29.56	peak	

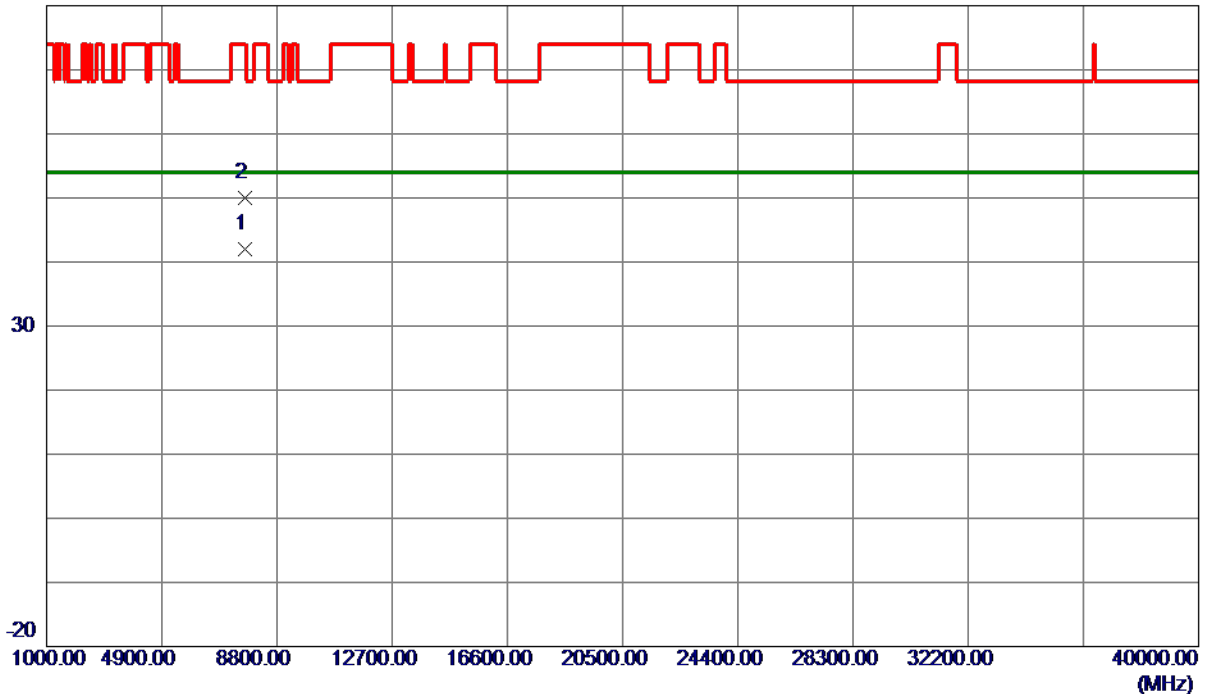
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Vertical

80 dBuV/m



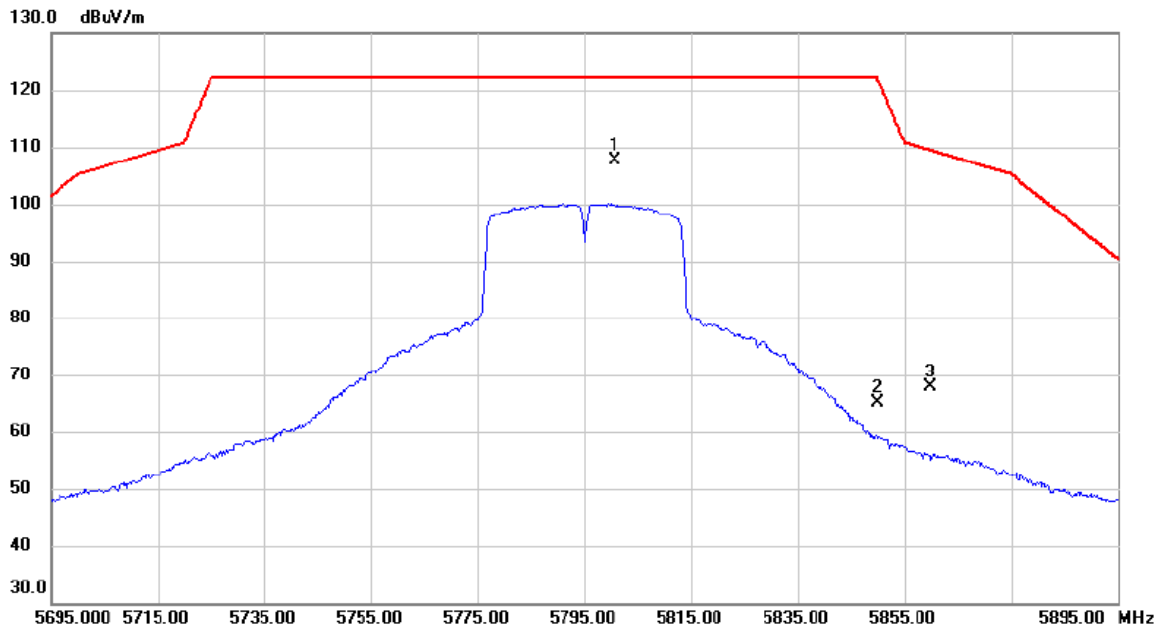
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7726.7400	32.40	9.51	41.91	54.00	-12.09	AVG	
2	7726.9300	40.43	9.51	49.94	74.00	-24.06	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5800.600	91.57	16.05	107.62	122.20	-14.58	peak	No Limit
2		5850.000	48.91	16.16	65.07	122.20	-57.13	peak	
3		5860.000	51.79	16.18	67.97	109.40	-41.43	peak	

REMARKS:

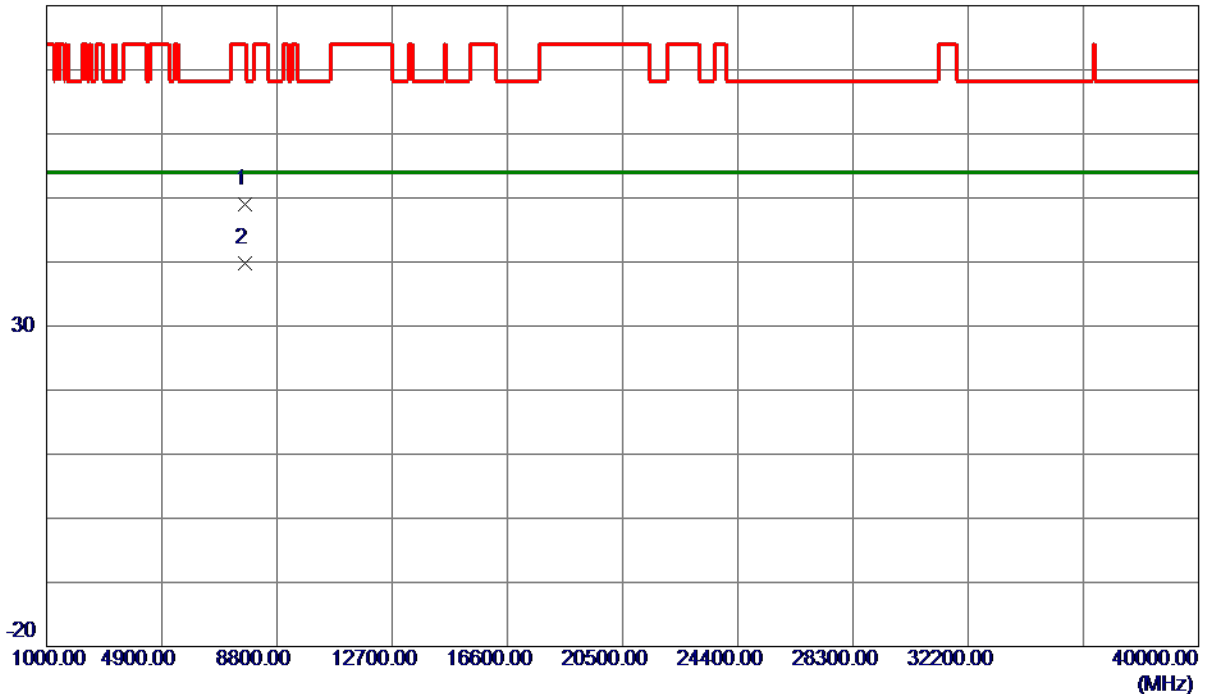
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT40) Mode 5795 MHz

Horizontal

80 dBuV/m



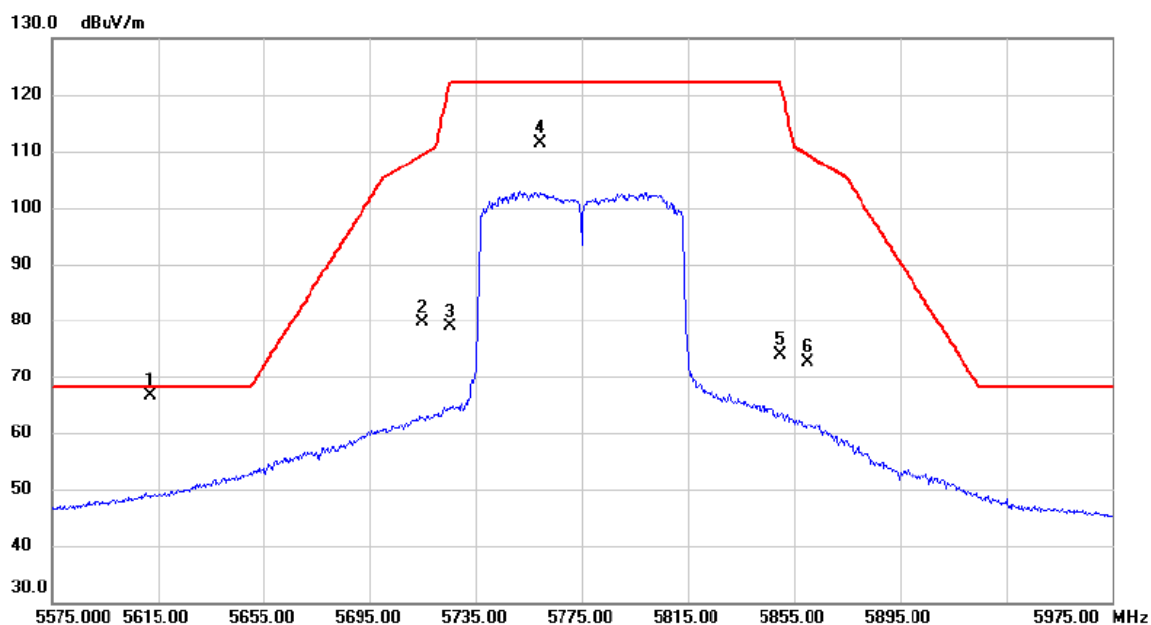
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7726.7800	39.55	9.51	49.06	74.00	-24.94	Peak	
2 *	7726.8500	30.35	9.51	39.86	54.00	-14.14	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5611.800	50.98	15.63	66.61	68.20	-1.59	peak	
2		5715.000	63.89	15.86	79.75	109.40	-29.65	peak	
3		5725.000	63.02	15.88	78.90	122.20	-43.30	peak	
4		5759.400	95.41	15.96	111.37	122.20	-10.83	peak	No Limit
5		5850.000	57.73	16.16	73.89	122.20	-48.31	peak	
6		5860.000	56.42	16.18	72.60	109.40	-36.80	peak	

REMARKS:

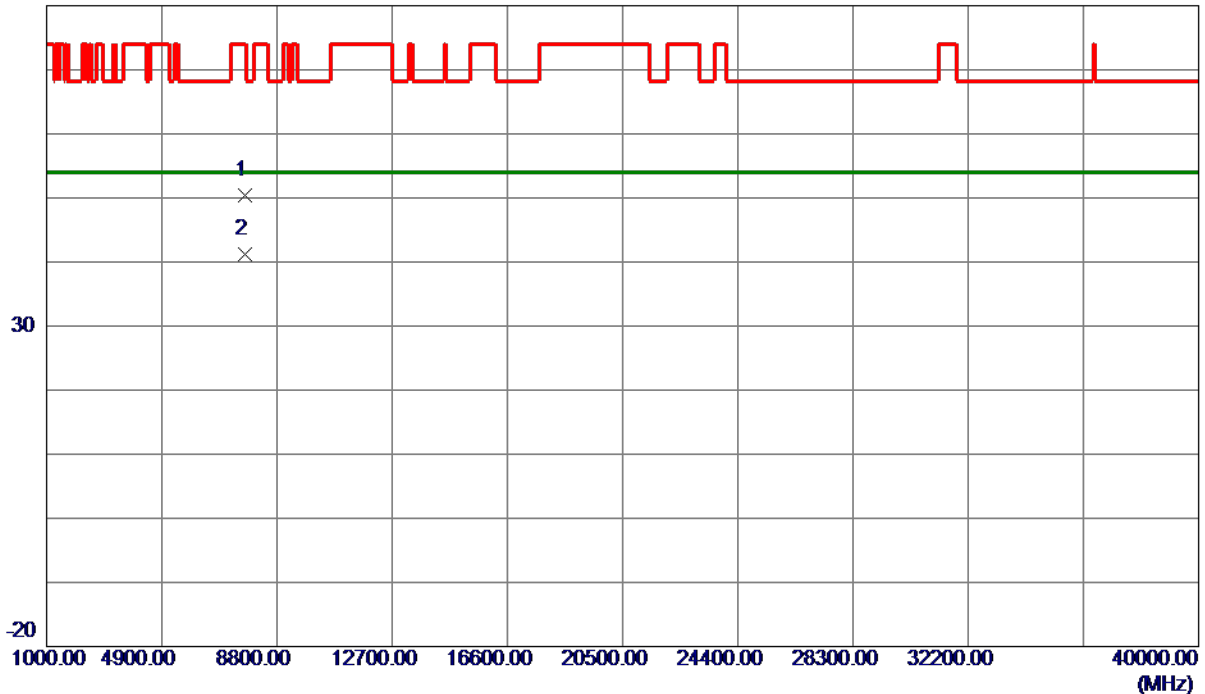
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Vertical

80 dBuV/m



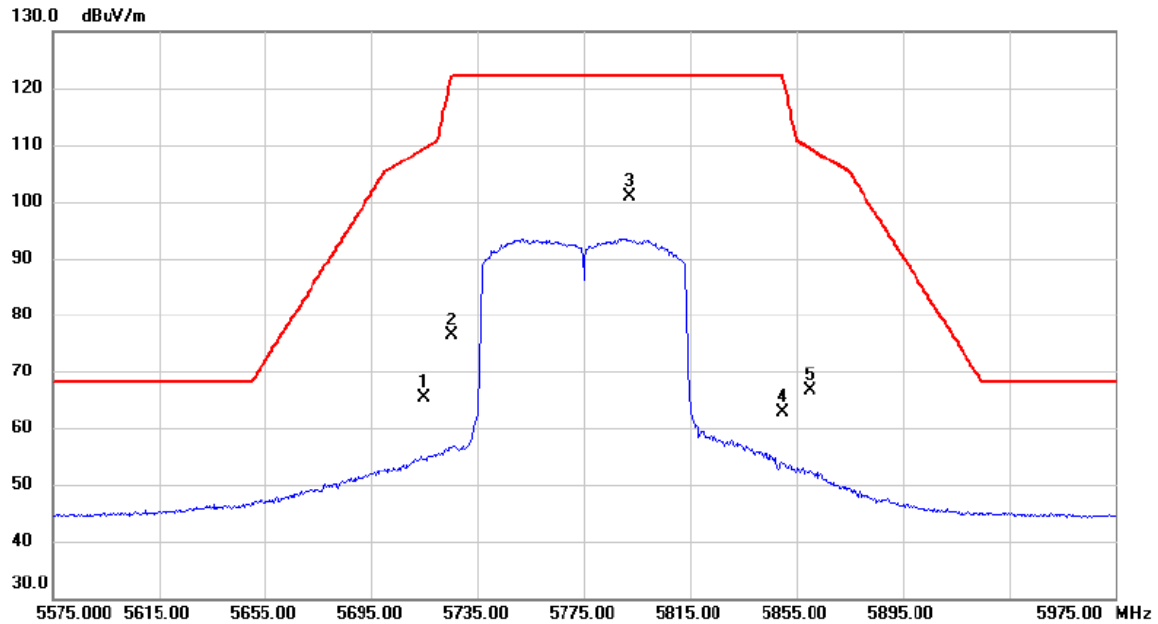
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	7700.0700	40.91	9.52	50.43	74.00	-23.57	Peak	
2 *	7700.1150	31.71	9.52	41.23	54.00	-12.77	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	49.57	15.86	65.43	109.40	-43.97	peak	
2		5725.000	60.62	15.88	76.50	122.20	-45.70	peak	
3	*	5792.200	84.97	16.02	100.99	122.20	-21.21	peak	No Limit
4		5850.000	46.60	16.16	62.76	122.20	-59.44	peak	
5		5860.000	50.39	16.18	66.57	109.40	-42.83	peak	

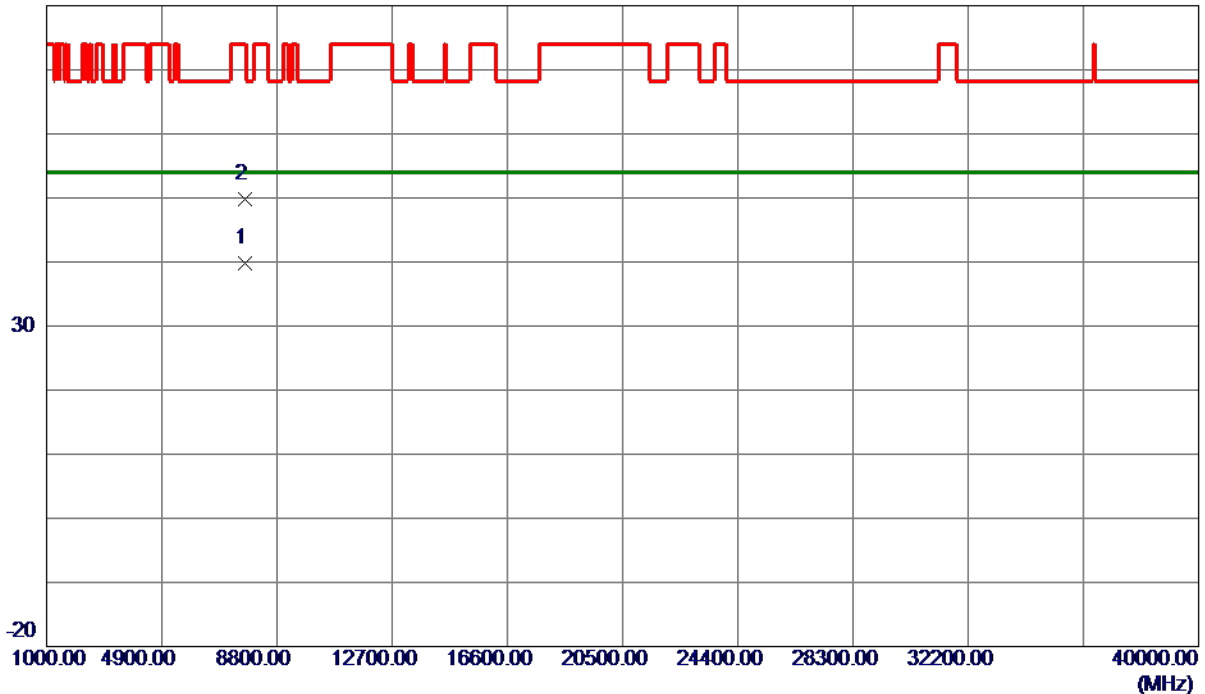
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX AC (VHT80) Mode 5775 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	7700.0550	30.27	9.52	39.79	54.00	-14.21	AVG	
2	7700.3000	40.23	9.52	49.75	74.00	-24.25	Peak	

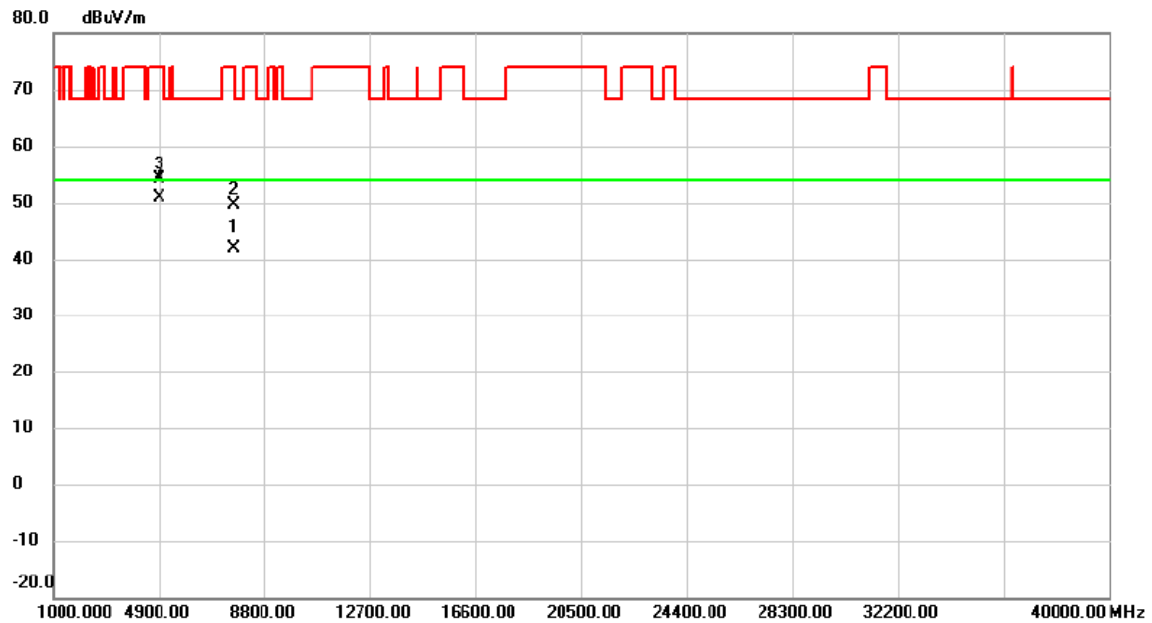
REMARKS:

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

The worst case of simultaneous transmission:

Test Mode: TX N-20M Mode 2437 MHz+ N-40 Mode 5755MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7660.162	32.25	9.53	41.78	54.00	-12.22	AVG	
2		7660.248	40.11	9.53	49.64	74.00	-24.36	peak	
3		4923.174	50.24	3.89	54.13	74.00	-19.87	peak	
4	*	4923.946	46.98	3.90	50.88	54.00	-3.12	AVG	

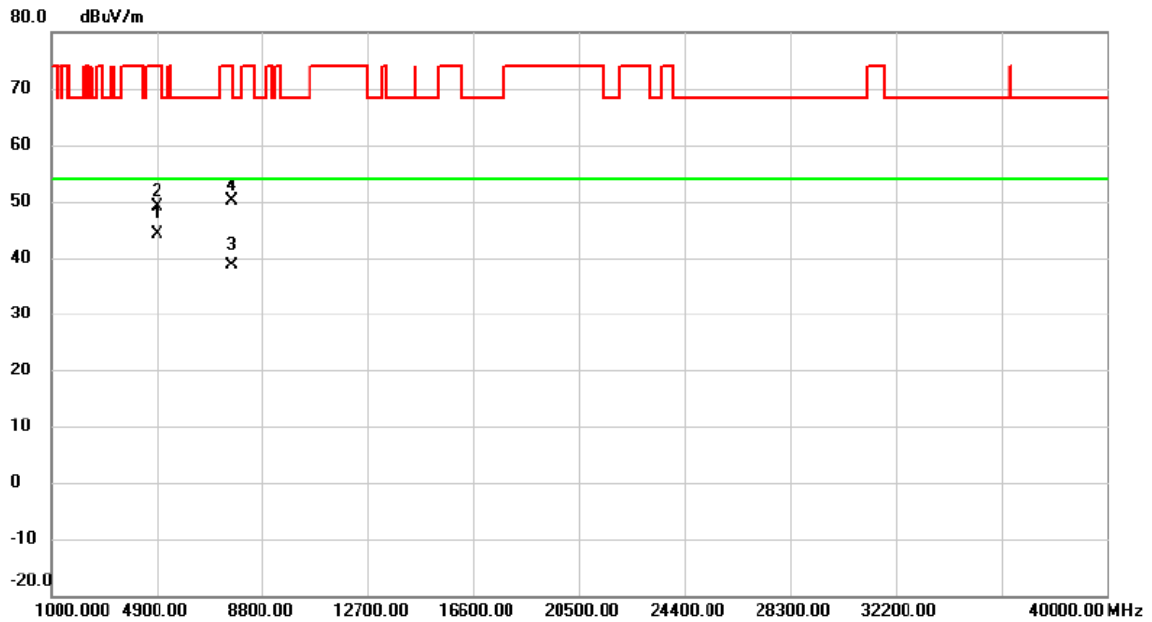
REMARKS:

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

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

Test Mode: TX N-20M Mode 2437 MHz+ N-40 Mode 5755MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4923.587	40.27	3.89	44.16	54.00	-9.84	AVG	
2		4923.814	45.18	3.89	49.07	74.00	-24.93	peak	
3		7660.165	29.14	9.53	38.67	54.00	-15.33	AVG	
4		7660.350	40.57	9.53	50.10	74.00	-23.90	peak	

REMARKS:

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

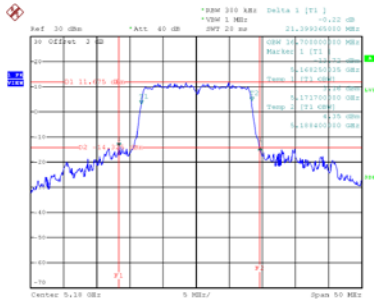
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E - BANDWIDTH

Test Mode	UNII-1_TX A Mode
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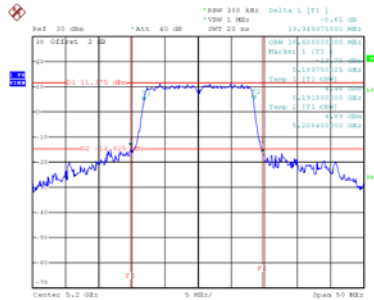
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	21.40	30.70
40	5200	19.95	33.70
48	5240	19.65	35.20

CH36



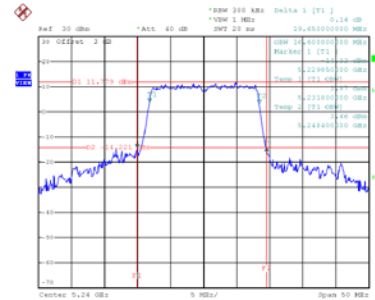
Date: 24.MAR.2020 19:44:05

CH40
26 dB Bandwidth



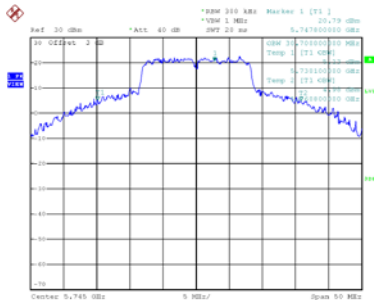
Date: 24.MAR.2020 19:45:00

CH48

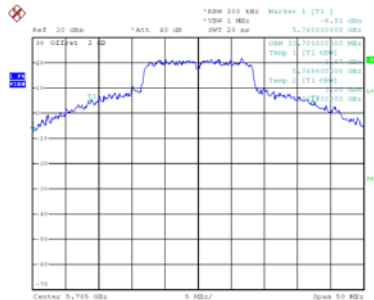


Date: 24.MAR.2020 19:45:53

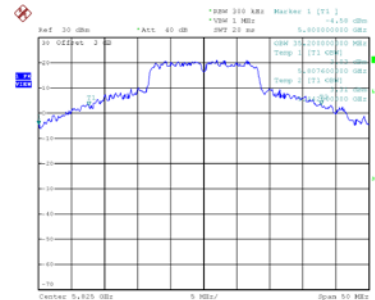
99 % Emission Bandwidth



Date: 24.MAR.2020 19:25:18



Date: 24.MAR.2020 19:25:34

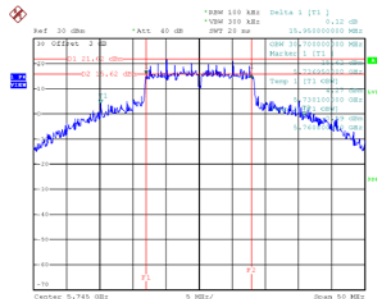


Date: 24.MAR.2020 19:25:53

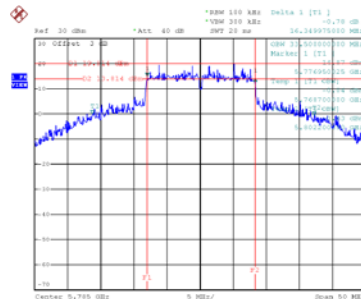
Test Mode	UNII-3_TX A Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	15.95	30.70	500	Complies
157	5785	16.35	33.70	500	Complies
165	5825	16.39	35.20	500	Complies

CH149

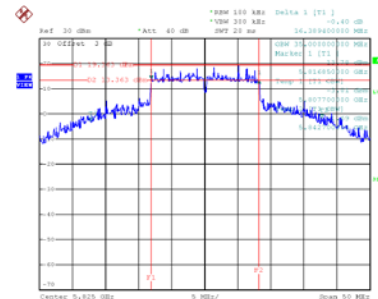


Date: 24.MAR.2020 19:11:58

CH157
6 dB Bandwidth


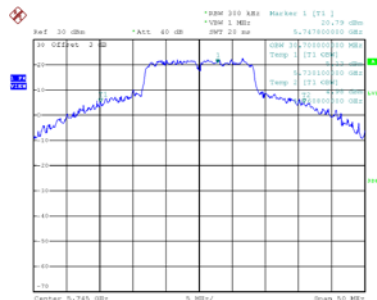
Date: 24.MAR.2020 19:13:00

CH165

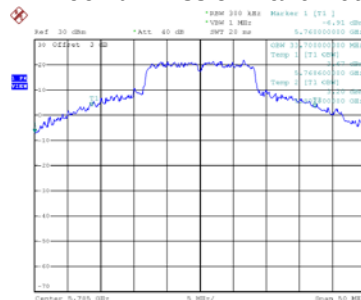


Date: 24.MAR.2020 19:13:53

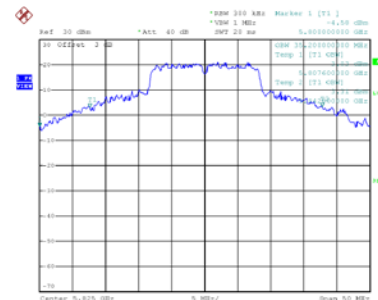
99 % Emission Bandwidth



Date: 24.MAR.2020 19:25:18



Date: 24.MAR.2020 19:25:34

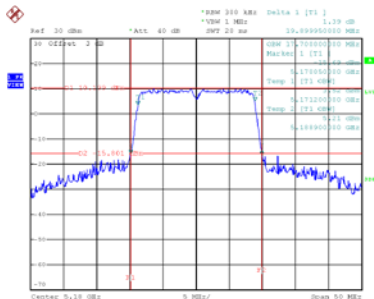


Date: 24.MAR.2020 19:25:53

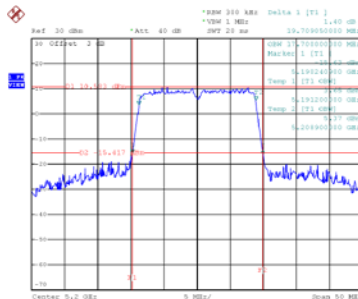
Test Mode	UNII-1_TX AC (VHT20) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	19.90	18.40
40	5200	19.71	27.00
48	5240	19.85	29.90

CH36

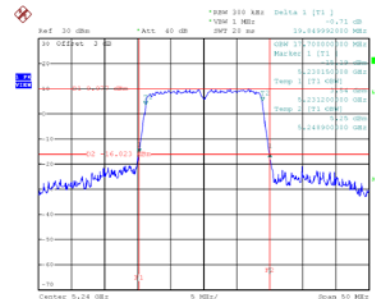


Date: 24.MAR.2020 19:50:30

CH40
26 dB Bandwidth


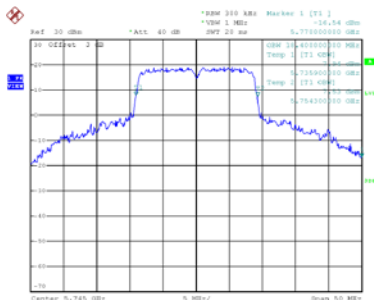
Date: 24.MAR.2020 19:52:02

CH48

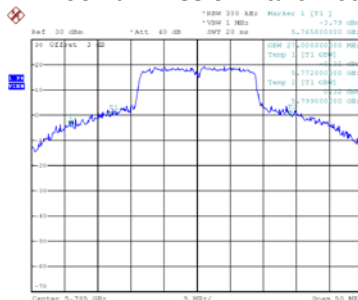


Date: 24.MAR.2020 19:52:42

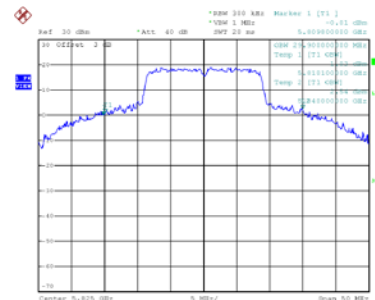
99 % Emission Bandwidth



Date: 24.MAR.2020 19:52:01



Date: 24.MAR.2020 19:52:19

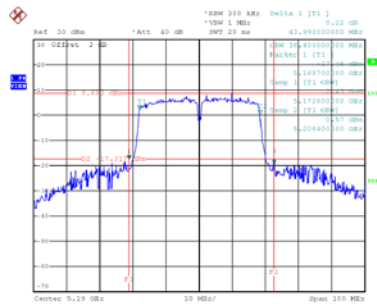


Date: 24.MAR.2020 19:52:33

Test Mode	UNII-1_TX AC (VHT40) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
38	5190	43.99	41.40
46	5230	49.40	54.40

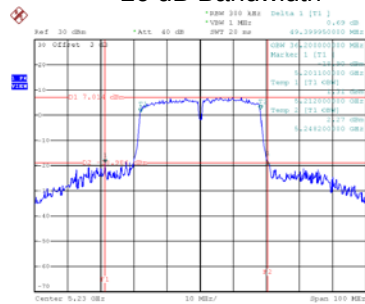
CH38



Date: 24.MAR.2020 19:55:37

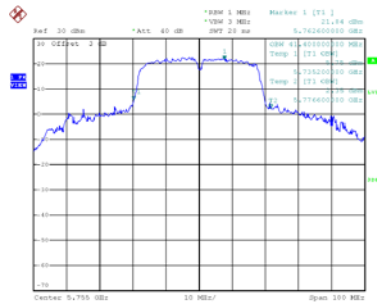
CH46

26 dB Bandwidth

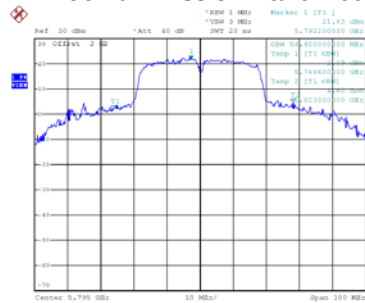


Date: 24.MAR.2020 19:56:28

99 % Emission Bandwidth



Date: 24.MAR.2020 19:30:08



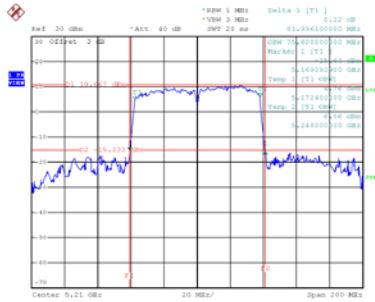
Date: 24.MAR.2020 19:30:55

Test Mode	UNII-1_TX AC (VHT80) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
42	5210	82.00	94.00

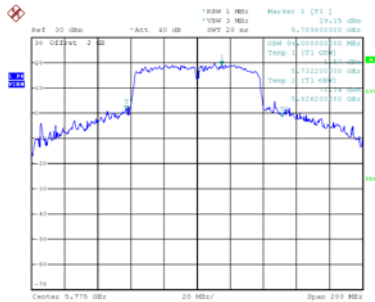
CH42

26 dB Bandwidth



Date: 24.MAR.2020 19:57:34

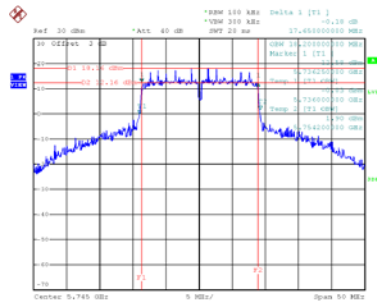
99 % Emission Bandwidth



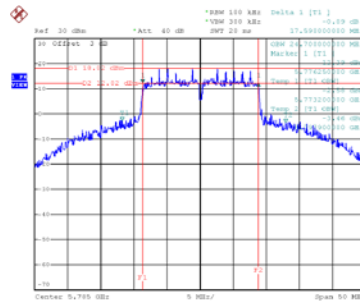
Date: 24.MAR.2020 19:31:22

Test Mode	UNII-3_TX AC (VHT20) Mode
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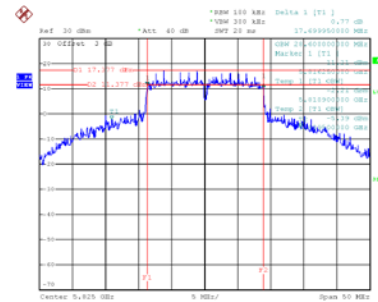
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	17.65	18.20	500	Complies
157	5785	17.59	27.00	500	Complies
165	5825	17.70	29.90	500	Complies

CH149


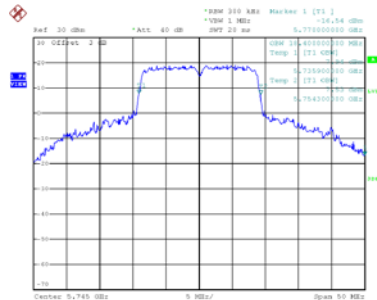
Date: 24.MAR.2020 19:17:15

CH157
6 dB Bandwidth


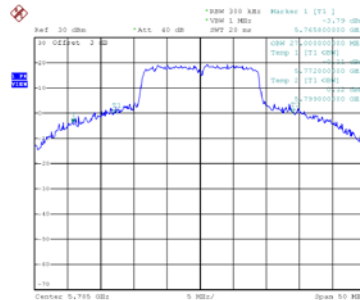
Date: 24.MAR.2020 19:17:49

CH165


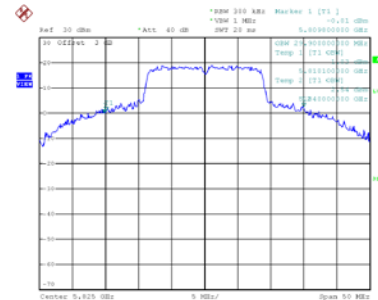
Date: 24.MAR.2020 19:18:40

99 % Emission Bandwidth


Date: 24.MAR.2020 19:28:01



Date: 24.MAR.2020 19:28:19

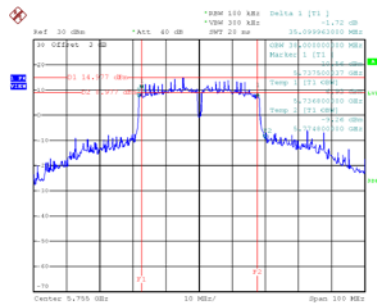


Date: 24.MAR.2020 19:28:33

Test Mode	UNII-3_TX AC (VHT40) Mode
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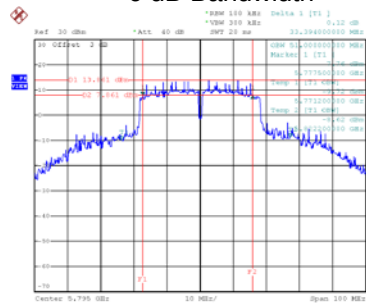
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
151	5755	35.10	41.40	500	Complies
159	5795	33.39	54.40	500	Complies

CH151



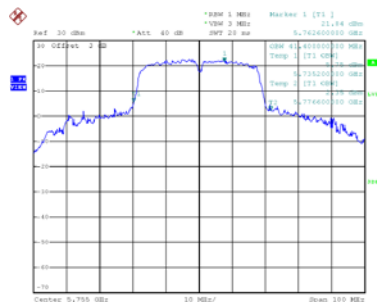
Date: 24_MAR_2020 19:21:33

CH159
6 dB Bandwidth

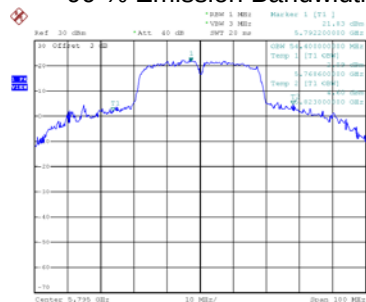


Date: 24_MAR_2020 19:22:41

99 % Emission Bandwidth



Date: 24_MAR_2020 19:30:08



Date: 24_MAR_2020 19:30:55

APPENDIX F - MAXIMUM OUTPUT POWER

Non Beamforming

Test Mode	UNII-1_TX A Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.89	0.43	18.32	30.00	1.00	Complies
40	5200	18.14	0.43	18.57	30.00	1.00	Complies
48	5240	18.01	0.43	18.44	30.00	1.00	Complies

Test Mode	UNII-3_TX A Mode_Ant. 1
-----------	-------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	29.50	0.43	29.93	30.00	1.00	Complies
157	5785	29.01	0.43	29.44	30.00	1.00	Complies
165	5825	28.12	0.43	28.55	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	16.25	0.32	16.57	30.00	1.00	Complies
40	5200	17.27	0.32	17.59	30.00	1.00	Complies
48	5240	16.62	0.32	16.94	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	16.12	0.32	16.44	30.00	1.00	Complies
40	5200	17.08	0.32	17.40	30.00	1.00	Complies
48	5240	16.74	0.32	17.06	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	19.51	30.00	1.00	Complies
40	5200	20.50	30.00	1.00	Complies
48	5240	20.01	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	15.15	4.29	19.44	30.00	1.00	Complies
46	5230	16.62	4.29	20.91	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	15.87	4.29	20.16	30.00	1.00	Complies
46	5230	16.58	4.29	20.87	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	22.82	30.00	1.00	Complies
46	5230	23.90	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	26.42	0.32	26.74	30.00	1.00	Complies
157	5785	26.51	0.32	26.83	30.00	1.00	Complies
165	5825	26.33	0.32	26.65	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	26.48	0.32	26.80	30.00	1.00	Complies
157	5785	26.27	0.32	26.59	30.00	1.00	Complies
165	5825	26.25	0.32	26.57	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	29.78	30.00	1.00	Complies
157	5785	29.72	30.00	1.00	Complies
165	5825	29.62	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	25.88	0.53	26.41	30.00	1.00	Complies
159	5795	25.74	0.53	26.27	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	26.52	0.53	27.05	30.00	1.00	Complies
159	5795	25.93	0.53	26.46	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	29.75	30.00	1.00	Complies
159	5795	29.37	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.28	0.25	17.53	30.00	1.00	Complies
40	5200	17.16	0.25	17.41	30.00	1.00	Complies
48	5240	16.79	0.25	17.04	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.05	0.25	17.30	30.00	1.00	Complies
40	5200	17.01	0.25	17.26	30.00	1.00	Complies
48	5240	16.45	0.25	16.70	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	20.43	30.00	1.00	Complies
40	5200	20.35	30.00	1.00	Complies
48	5240	19.89	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	15.17	0.38	15.55	30.00	1.00	Complies
46	5230	16.37	0.38	16.75	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	15.89	0.38	16.27	30.00	1.00	Complies
46	5230	16.53	0.38	16.91	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	18.93	30.00	1.00	Complies
46	5230	19.84	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	14.11	0.85	14.96	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	14.52	0.85	15.37	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	18.18	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	26.32	0.25	26.57	30.00	1.00	Complies
157	5785	26.42	0.25	26.67	30.00	1.00	Complies
165	5825	26.44	0.25	26.69	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	26.51	0.25	26.76	30.00	1.00	Complies
157	5785	26.31	0.25	26.56	30.00	1.00	Complies
165	5825	26.21	0.25	26.46	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	29.68	30.00	1.00	Complies
157	5785	29.63	30.00	1.00	Complies
165	5825	29.59	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	25.95	0.38	26.33	30.00	1.00	Complies
159	5795	26.33	0.38	26.71	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	26.67	0.38	27.05	30.00	1.00	Complies
159	5795	26.22	0.38	26.60	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	29.71	30.00	1.00	Complies
159	5795	29.66	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	22.03	0.85	22.88	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	23.51	0.85	24.36	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	26.69	30.00	1.00	Complies

Beamforming

Test Mode	UNII-1_TX N (HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.28	0.32	17.60	30.00	1.00	Complies
40	5200	17.22	0.32	17.54	30.00	1.00	Complies
48	5240	16.74	0.32	17.06	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.05	0.32	17.37	30.00	1.00	Complies
40	5200	16.95	0.32	17.27	30.00	1.00	Complies
48	5240	16.51	0.32	16.83	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT20) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	20.50	30.00	1.00	Complies
40	5200	20.42	30.00	1.00	Complies
48	5240	19.96	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	16.68	4.29	20.97	30.00	1.00	Complies
46	5230	16.58	4.29	20.87	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	16.61	4.29	20.90	30.00	1.00	Complies
46	5230	16.53	4.29	20.82	30.00	1.00	Complies

Test Mode	UNII-1_TX N (HT40) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	23.94	30.00	1.00	Complies
46	5230	23.85	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.22	0.32	22.54	30.00	1.00	Complies
157	5785	22.31	0.32	22.63	30.00	1.00	Complies
165	5825	22.43	0.32	22.75	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.89	0.32	23.21	30.00	1.00	Complies
157	5785	22.87	0.32	23.19	30.00	1.00	Complies
165	5825	22.66	0.32	22.98	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT20) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	25.90	30.00	1.00	Complies
157	5785	25.93	30.00	1.00	Complies
165	5825	25.88	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	21.56	4.29	25.85	30.00	1.00	Complies
159	5795	21.75	4.29	26.04	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.21	4.29	26.50	30.00	1.00	Complies
159	5795	22.37	4.29	26.66	30.00	1.00	Complies

Test Mode	UNII-3_TX N (HT40) Mode_Total
-----------	-------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	29.19	30.00	1.00	Complies
159	5795	29.37	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	17.15	0.25	17.40	30.00	1.00	Complies
40	5200	17.28	0.25	17.53	30.00	1.00	Complies
48	5240	16.74	0.25	16.99	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	16.77	0.25	17.02	30.00	1.00	Complies
40	5200	16.57	0.25	16.82	30.00	1.00	Complies
48	5240	16.62	0.25	16.87	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT20) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	20.23	30.00	1.00	Complies
40	5200	20.20	30.00	1.00	Complies
48	5240	19.95	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	16.31	0.38	16.69	30.00	1.00	Complies
46	5230	16.51	0.38	16.89	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 2
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	16.35	0.38	16.73	30.00	1.00	Complies
46	5230	16.28	0.38	16.66	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT40) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	19.72	30.00	1.00	Complies
46	5230	19.78	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 1
-----------	----------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	15.38	0.85	16.23	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	15.39	0.85	16.24	30.00	1.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	19.24	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.16	0.25	22.41	30.00	1.00	Complies
157	5785	22.32	0.25	22.57	30.00	1.00	Complies
165	5825	22.38	0.25	22.63	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	22.85	0.25	23.10	30.00	1.00	Complies
157	5785	22.82	0.25	23.07	30.00	1.00	Complies
165	5825	22.63	0.25	22.88	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT20) Mode_Total
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	25.78	30.00	1.00	Complies
157	5785	25.84	30.00	1.00	Complies
165	5825	25.77	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	21.45	0.38	21.83	30.00	1.00	Complies
159	5795	21.93	0.38	22.31	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	22.73	0.38	23.11	30.00	1.00	Complies
159	5795	22.62	0.38	23.00	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT40) Mode_Total
-----------	---------------------------------

Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	25.53	30.00	1.00	Complies
159	5795	25.68	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 1
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	21.76	0.85	22.61	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 2
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Channel	Frequency (MHz)	Conducted Output Power (dBm)	Duty Factor	Conducted Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	22.04	0.85	22.89	30.00	1.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Total
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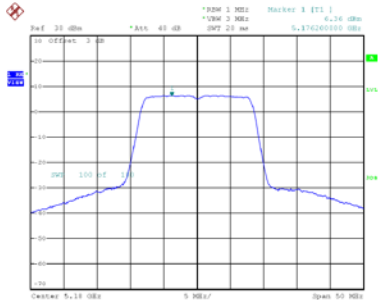
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	25.76	30.00	1.00	Complies

APPENDIX G - POWER SPECTRAL DENSITY

Test Mode UNII-1_TX A Mode_Ant.1

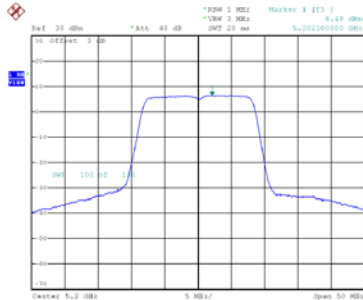
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	6.36	0.43	6.79	17.00	Complies
40	5200	6.48	0.43	6.91	17.00	Complies
48	5240	6.49	0.43	6.92	17.00	Complies

CH36



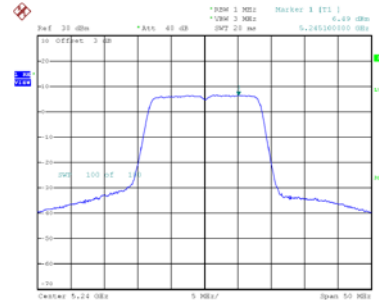
Date: 24.MAR.2020 19:43:29

CH40



Date: 24.MAR.2020 19:45:10

CH48

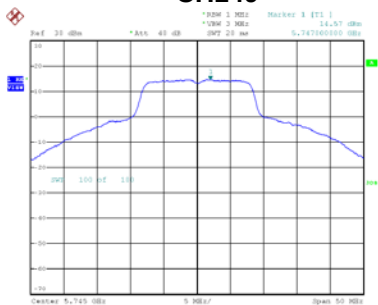


Date: 24.MAR.2020 19:45:30

Test Mode UNII-3_TX A Mode_Ant.1

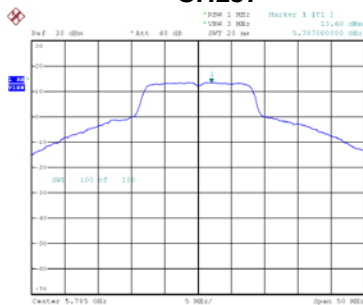
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	14.57	0.43	15.00	30.00	Complies
157	5785	13.60	0.43	14.03	30.00	Complies
165	5825	12.91	0.43	13.34	30.00	Complies

CH149



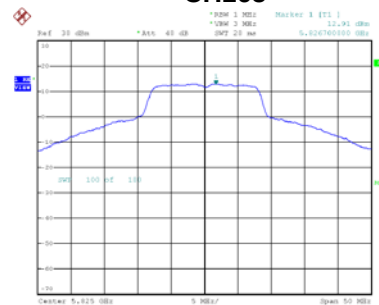
Date: 24.MAR.2020 19:50:58

CH157



Date: 24.MAR.2020 19:51:26

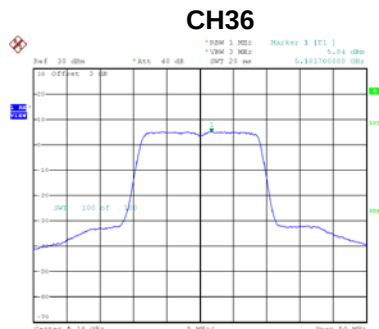
CH165



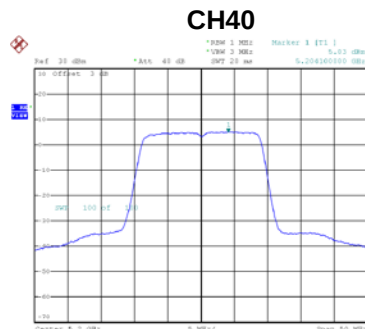
Date: 24.MAR.2020 19:51:48

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 1
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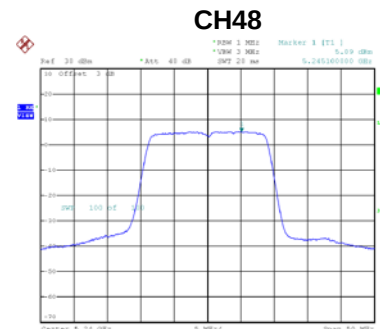
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	5.04	0.25	5.29	17.00	Complies
40	5200	5.03	0.25	5.28	17.00	Complies
48	5240	5.09	0.25	5.34	17.00	Complies



Date: 24_MAR_2020 19:15:00



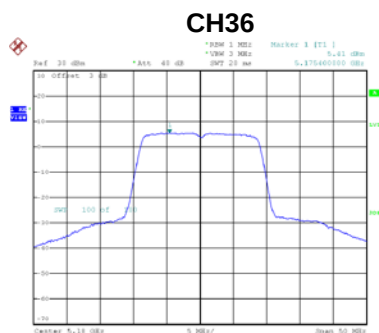
Date: 24_MAR_2020 19:15:16



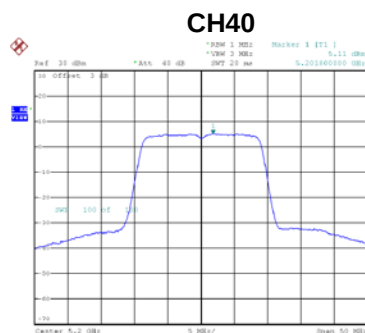
Date: 24_MAR_2020 19:15:18

Test Mode	UNII-1_TX AC (VHT20) Mode_Ant. 2
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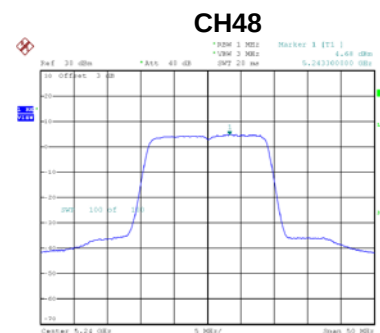
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	5.41	0.25	5.66	17.00	Complies
40	5200	5.11	0.25	5.36	17.00	Complies
48	5240	4.68	0.25	4.93	17.00	Complies



Date: 24_MAR_2020 20:02:39



Date: 24_MAR_2020 20:03:29



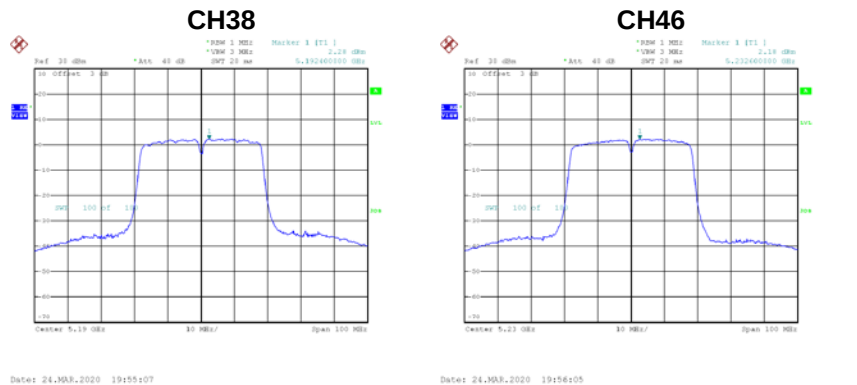
Date: 24_MAR_2020 20:11:01

Test Mode	UNII-1_TX AC (VHT20) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	8.49	17.00	Complies
40	5200	8.34	17.00	Complies
48	5240	8.15	17.00	Complies

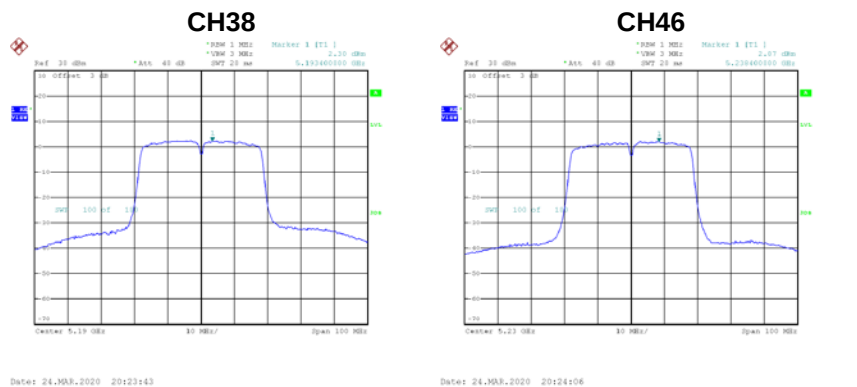
Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	2.28	0.38	2.66	17.00	Complies
46	5230	2.18	0.38	2.56	17.00	Complies



Test Mode	UNII-1_TX AC (VHT40) Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	2.30	0.38	2.68	17.00	Complies
46	5230	2.07	0.38	2.45	17.00	Complies



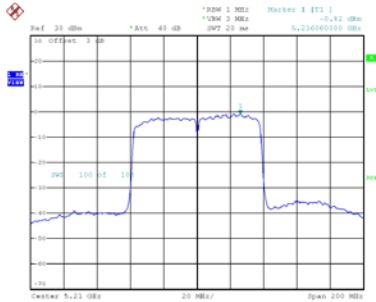
Test Mode	UNII-1_TX AC (VHT40) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
38	5190	5.68	17.00	Complies
46	5230	5.51	17.00	Complies

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-0.82	0.85	0.03	17.00	Complies

CH42

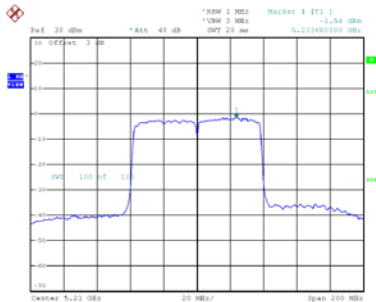


Date: 24.MAR.2020 19:57:04

Test Mode	UNII-1_TX AC (VHT80) Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	-1.54	0.85	-0.69	17.00	Complies

CH42



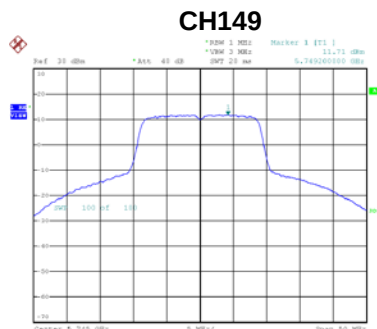
Date: 24.MAR.2020 20:24:30

Test Mode	UNII-1_TX AC (VHT80) Mode_Total
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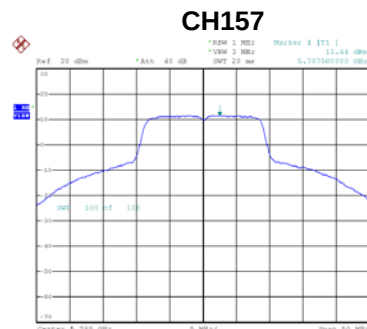
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	2.69	17.00	Complies

Test Mode UNII-3_TX AC (VHT20) Mode_Ant. 1

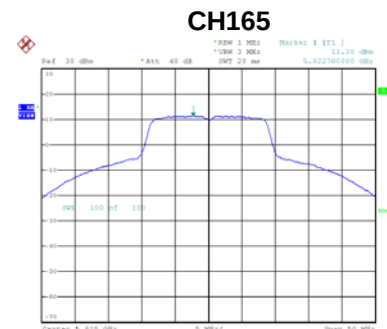
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	11.71	0.25	11.96	30.00	Complies
157	5785	11.44	0.25	11.69	30.00	Complies
165	5825	11.30	0.25	11.55	30.00	Complies



Date: 24.MAR.2020 18:54:36



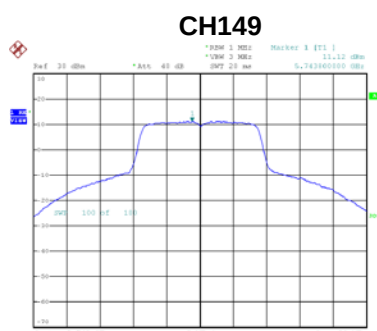
Date: 24.MAR.2020 18:55:23



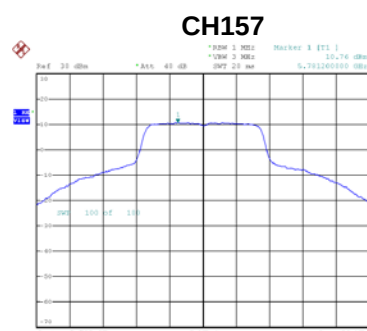
Date: 24.MAR.2020 18:55:49

Test Mode UNII-3_TX AC (VHT20) Mode_Ant. 2

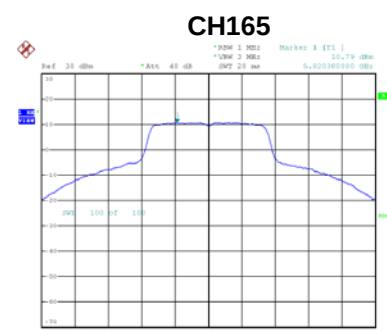
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	11.12	0.25	11.37	30.00	Complies
157	5785	10.76	0.25	11.01	30.00	Complies
165	5825	10.79	0.25	11.04	30.00	Complies



Date: 24.MAR.2020 19:02:27



Date: 24.MAR.2020 19:02:59



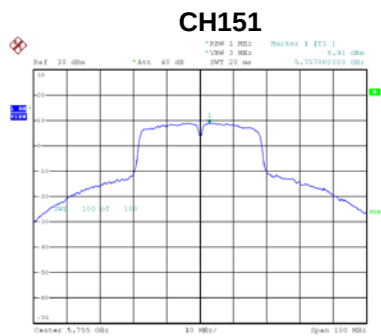
Date: 24.MAR.2020 19:03:28

Test Mode	UNII-3_TX AC (VHT20) Mode_Total
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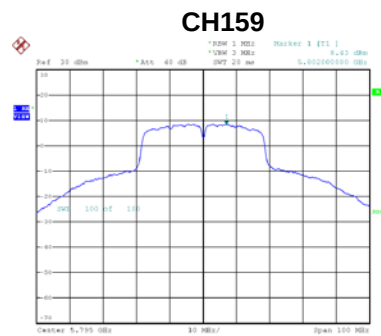
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	14.69	30.00	Complies
157	5785	14.38	30.00	Complies
165	5825	14.32	30.00	Complies

Test Mode UNII-3_TX AC (VHT40) Mode_Ant. 1

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	8.91	0.38	9.29	30.00	Complies
159	5795	8.43	0.38	8.81	30.00	Complies



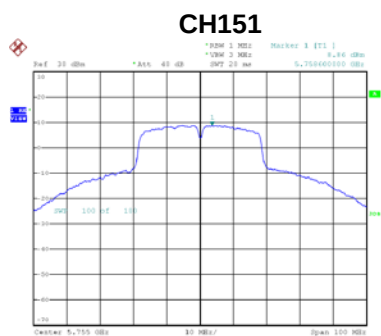
Date: 24.MAR.2020 18:58:02



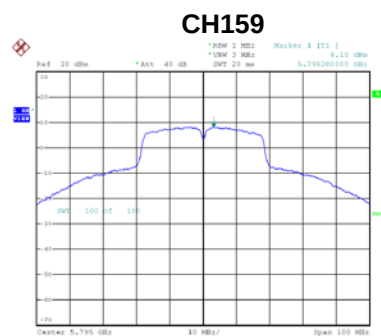
Date: 24.MAR.2020 18:58:30

Test Mode UNII-3_TX AC (VHT40) Mode_Ant. 2

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	8.86	0.38	9.24	30.00	Complies
159	5795	8.10	0.38	8.48	30.00	Complies



Date: 24.MAR.2020 19:07:44



Date: 24.MAR.2020 19:08:05

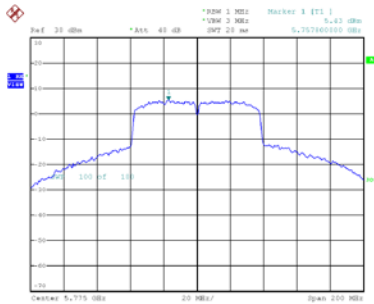
Test Mode UNII-3_TX AC (VHT40) Mode_Total

Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
151	5755	12.27	30.00	Complies
159	5795	11.66	30.00	Complies

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 1
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	5.43	0.85	6.28	30.00	Complies

CH155

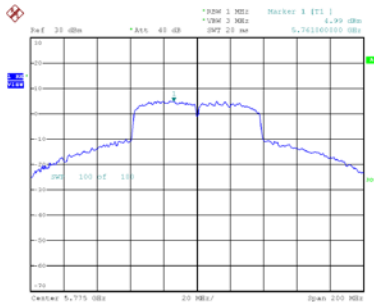


Date: 24.MAR.2020 10:50:59

Test Mode	UNII-3_TX AC (VHT80) Mode_Ant. 2
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	4.99	0.85	5.84	30.00	Complies

CH155



Date: 24.MAR.2020 10:50:27

Test Mode	UNII-3_TX AC (VHT80) Mode_Total
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Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
155	5775	9.07	30.00	Complies

APPENDIX H - FREQUENCY STABILITY

Test Mode	UNII-1
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Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180.0000
138	5179.9951
120	5179.9799
102	5179.9902
Maximum Deviation (MHz)	0.0201
Maximum Deviation (ppm)	3.8827

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5180.0000
0	5179.9750
5	5179.9750
10	5179.9950
20	5179.9750
30	5179.9950
40	5179.9799
Maximum Deviation (MHz)	0.0250
Maximum Deviation (ppm)	4.8263

Test Mode	UNII-3
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Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5745.0000
138	5744.9600
120	5744.9599
102	5744.9750
Maximum Deviation (MHz)	0.0401
Maximum Deviation (ppm)	6.9822

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5745.0000
0	5744.9600
5	5744.9750
10	5744.9600
20	5744.9750
30	5744.9600
40	5744.9750
Maximum Deviation (MHz)	0.0400
Maximum Deviation (ppm)	6.9648

End of Test Report