

# FCC Radio Test Report

## FCC ID: TE7C24

**This report concerns: Original Grant**

**Project No.** : 1911C007B  
**Equipment** : AC750 Dual Band Wi-Fi Router  
**Brand Name** : tp-link  
**Test Model** : Archer C24  
**Series Model** : NA  
**Applicant** : TP-Link Technologies Co., Ltd.  
**Address** : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China  
**Manufacturer** : TP-Link Technologies Co., Ltd.  
**Address** : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China  
**Date of Receipt** : May. 19, 2020  
**Date of Test** : May. 19, 2020~Jun. 28, 2020  
**Issued Date** : Jul. 15, 2020  
**Report Version** : R01  
**Test Sample** : Engineering Sample No.: DG2020051555  
**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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The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

**Limitation**

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

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

**Table of Contents****Page**

<b>REPORT ISSUED HISTORY</b>	<b>6</b>
<b>1 . SUMMARY OF TEST RESULTS</b>	<b>7</b>
1.1 TEST FACILITY	8
1.2 MEASUREMENT UNCERTAINTY	8
1.3 TEST ENVIRONMENT CONDITIONS	9
<b>2 . GENERAL INFORMATION</b>	<b>10</b>
2.1 GENERAL DESCRIPTION OF EUT	10
2.2 TEST MODES	12
2.3 PARAMETERS OF TEST SOFTWARE	14
2.4 DUTY CYCLE	15
2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	16
2.6 SUPPORT UNITS	16
<b>3 . AC POWER LINE CONDUCTED EMISSIONS TEST</b>	<b>17</b>
3.1 LIMIT	17
3.2 TEST PROCEDURE	17
3.3 DEVIATION FROM TEST STANDARD	17
3.4 TEST SETUP	18
3.5 EUT OPERATION CONDITIONS	18
3.6 TEST RESULTS	18
<b>4 . RADIATED EMISSIONS TEST</b>	<b>19</b>
4.1 LIMIT	19
4.2 TEST PROCEDURE	20
4.3 DEVIATION FROM TEST STANDARD	20
4.4 TEST SETUP	21
4.5 EUT OPERATION CONDITIONS	22
4.6 TEST RESULTS - 9 KHZ to 30 MHZ	22
4.7 TEST RESULTS - 30 MHz TO 1000 MHz	22
4.8 TEST RESULTS - ABOVE 1000 MHz	22
<b>5 . BANDWIDTH TEST</b>	<b>23</b>
5.1 LIMIT	23
5.2 TEST PROCEDURE	23
5.3 TEST PROCEDURE	23
5.4 TEST SETUP	23

<b>Table of Contents</b>	<b>Page</b>
5.5 EUT OPERATION CONDITIONS	23
5.6 TEST RESULTS	23
<b>6 . MAXIMUM OUTPUT POWER TEST</b>	<b>24</b>
6.1 LIMIT	24
6.2 TEST PROCEDURE	24
6.3 DEVIATION FROM STANDARD	24
6.4 TEST SETUP	24
6.5 EUT OPERATION CONDITIONS	24
6.6 TEST RESULTS	24
<b>7 . POWER SPECTRAL DENSITY TEST</b>	<b>25</b>
7.1 LIMIT	25
7.2 TEST PROCEDURE	25
7.3 DEVIATION FROM STANDARD	26
7.4 TEST SETUP	26
7.5 EUT OPERATION CONDITIONS	26
7.6 TEST RESULTS	26
<b>8 . FREQUENCY STABILITY MEASUREMENT</b>	<b>27</b>
8.1 LIMIT	27
8.2 TEST PROCEDURE	27
8.3 DEVIATION FROM STANDARD	27
8.4 TEST SETUP	27
8.5 EUT OPERATION CONDITIONS	27
8.6 TEST RESULTS	27
<b>9 . MEASUREMENT INSTRUMENTS LIST</b>	<b>28</b>
<b>10 . EUT TEST PHOTOS</b>	<b>30</b>
<b>APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS</b>	<b>34</b>
<b>APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ</b>	<b>37</b>
<b>APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ</b>	<b>42</b>
<b>APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ</b>	<b>45</b>
<b>APPENDIX E - BANDWIDTH</b>	<b>118</b>
<b>APPENDIX F - MAXIMUM OUTPUT POWER</b>	<b>127</b>
<b>APPENDIX G - POWER SPECTRAL DENSITY</b>	<b>130</b>

Table of Contents	Page
APPENDIX H - FREQUENCY STABILITY	136

### REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 06, 2020
R01	<ol style="list-style-type: none"> <li>Updated the description of Page 25</li> <li>Updated the data about UNII-3 of Page 131,Page 134~135.</li> </ol>	Jul. 15, 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 (3)
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

### C. Other Measurement test:

Parameter	Uncertainty
Spectrum Bandwidth	±3.8 %
Maximum Output Power	±0.95 dB
Power Spectral Density	±0.86 dB
Frequency Stability	±0.16 dB
Temperature	±0.08 °C
Time	±0.58 %
Supply voltages	±0.3 %

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

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC750 Dual Band Wi-Fi Router
Brand Name	tp-link
Test Model	Archer C24
Series Model	N/A
Model Difference(s)	N/A
Power Source	DC voltage supplied from AC adapter. Model: T090060-2B1
Power Rating	I/P: 100-240V~ 50/60Hz 0.3A    O/P: 9V --- 0.6A
Operation Frequency	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz
Modulation Type	OFDM
Bit Rate of Transmitter	Up to 866.7 Mbps
Maximum Output Power for UNII-1	IEEE 802.11a: 21.98 dBm (0.1578 W) IEEE 802.11ac (VHT20): 20.93 dBm (0.1239 W) IEEE 802.11ac (VHT40): 20.84 dBm (0.1213 W) IEEE 802.11ac (VHT80): 12.79 dBm (0.0190 W)
Maximum Output Power for UNII-3	IEEE 802.11a: 21.96 dBm (0.1570 W) IEEE 802.11ac (VHT20): 20.94 dBm (0.1242 W) IEEE 802.11ac (VHT40): 20.96 dBm (0.1247 W) IEEE 802.11ac (VHT80): 21.15 dBm (0.1303 W)

Note:



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

## 2. Channel List:

IEEE 802.11a IEEE 802.11ac (VHT20)		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 802.11ac (VHT20)		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	P/N	Antenna Type	Connector	Gain (dBi)	Note
1		3101503116	Dipole	Weld	4.37	UNII-1
2		3101503116	Dipole	Weld	4.94	UNII-3

## 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 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)
Mode 9	TX A Mode / CH48 (UNII-1)

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 9	TX A Mode / CH48 (UNII-1)

Radiated emissions test	
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)

Conducted test	
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)

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

### 2.3 PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software	N/A		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	18	26	26
IEEE 802.11ac (VHT20)	22	25	23
Test Frequency (MHz)	5190	5230	
IEEE 802.11ac (VHT40)	12	24	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	6		

UNII-3			
Test Software	N/A		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	30	30	31
IEEE 802.11ac (VHT20)	29	29	30
Test Frequency (MHz)	5755	5795	
IEEE 802.11ac (VHT40)	30	31	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	30		

## 2.4 DUTY CYCLE

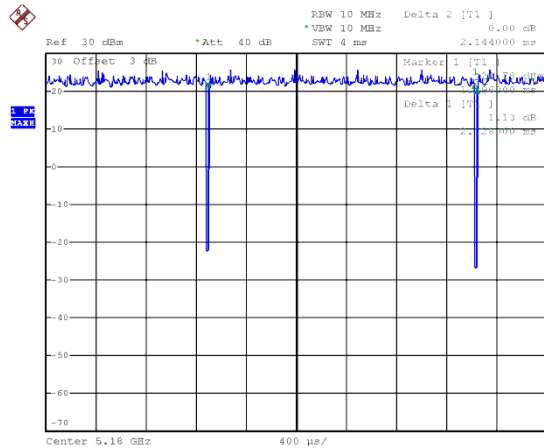
If duty cycle is  $\geq 98\%$ , duty factor is not required.

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

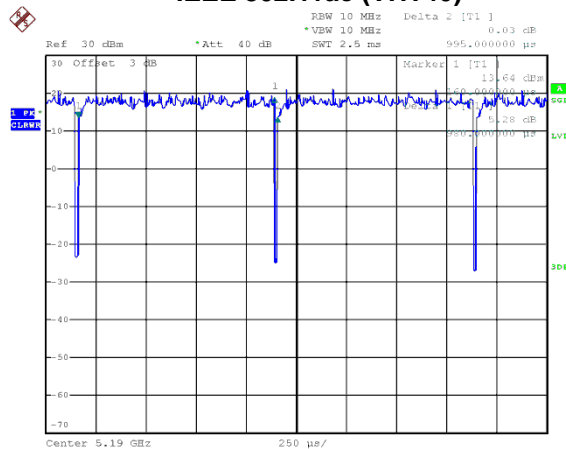


Date: 29.MAY.2020 17:07:55

Duty cycle = 2.128 ms / 2.144 ms = 99.25%

Duty Factor =  $10\log(1 / \text{Duty cycle}) = 0.00$

IEEE 802.11ac (VHT40)

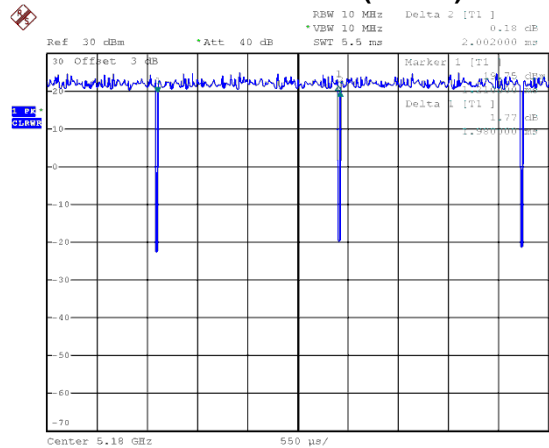


Date: 29.MAY.2020 17:09:18

Duty cycle = 0.980 ms / 0.995 ms = 98.49%

Duty Factor =  $10\log(1 / \text{Duty cycle}) = 0.00$

IEEE 802.11ac (VHT20)

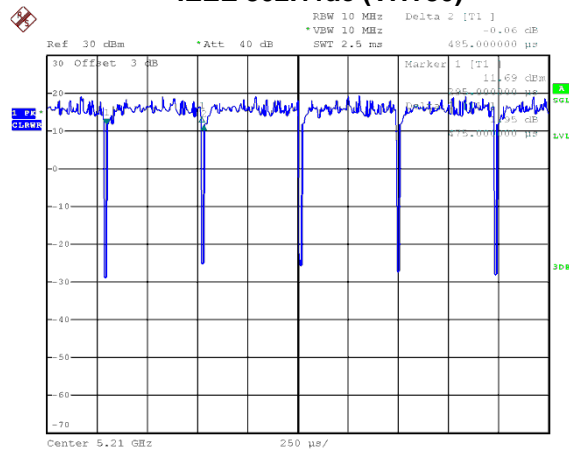


Date: 29.MAY.2020 17:08:40

Duty cycle = 1.980 ms / 2.002 ms = 98.90%

Duty Factor =  $10\log(1 / \text{Duty cycle}) = 0.00$

IEEE 802.11ac (VHT80)



Date: 29.MAY.2020 17:09:43

Duty cycle = 0.475 ms / 0.485 ms = 97.94%

Duty Factor =  $10\log(1 / \text{Duty cycle}) = 0.09$

### NOTE:

For IEEE 802.11a, IEEE 802.11ac (VHT20):

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

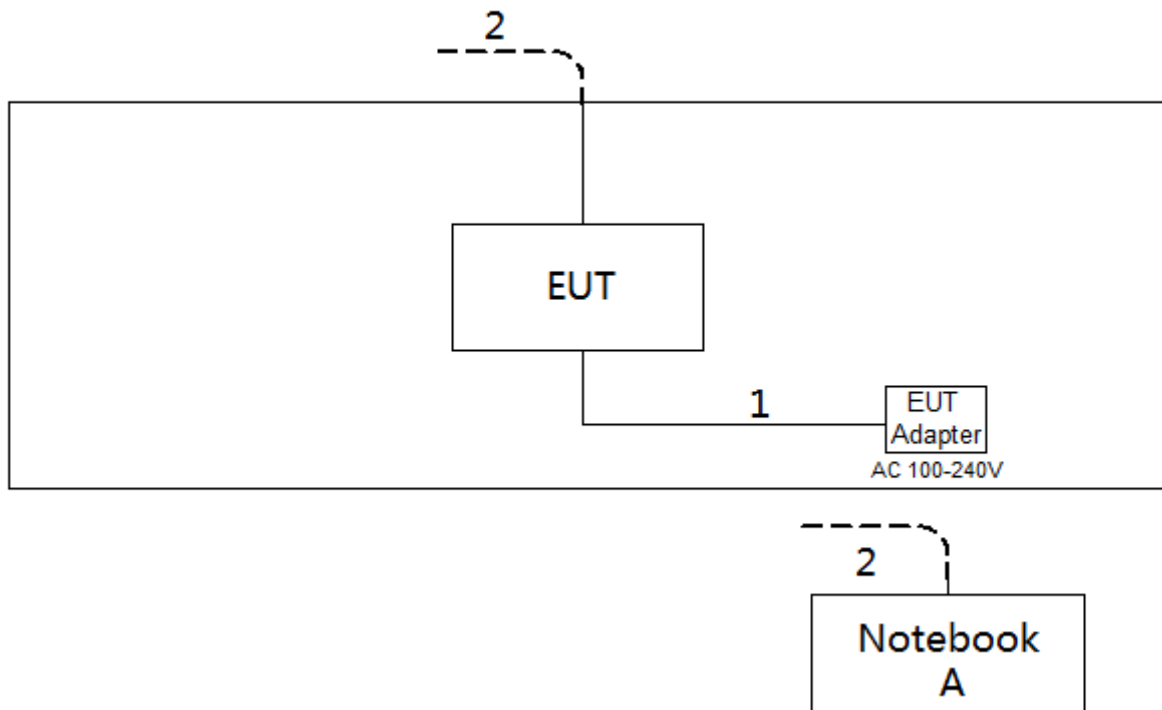
For IEEE 802.11ac (VHT40):

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

For IEEE 802.11ac (VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 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	1.5m
2	RJ45 Cable	NO	NO	10m



### 3. AC POWER LINE CONDUCTED EMISSIONS TEST

#### 3.1 LIMIT

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56*	56 to 46*
0.50 - 5.00	56	46
5.00 - 30.00	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

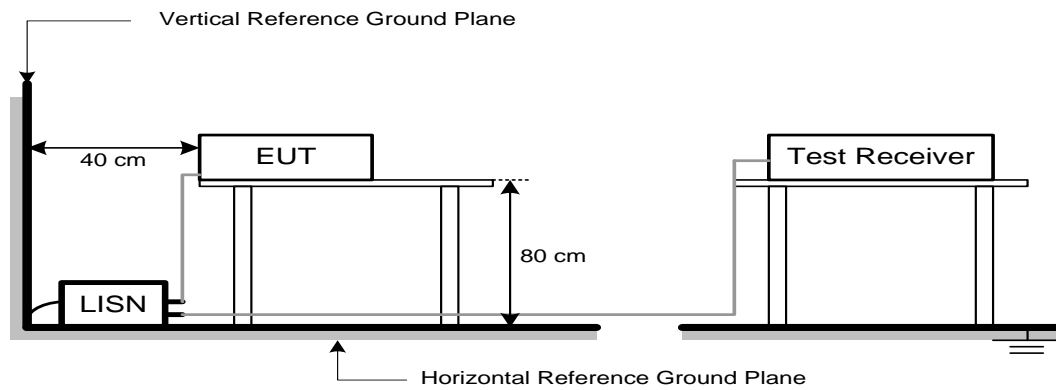
#### 3.2 TEST PROCEDURE

- 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

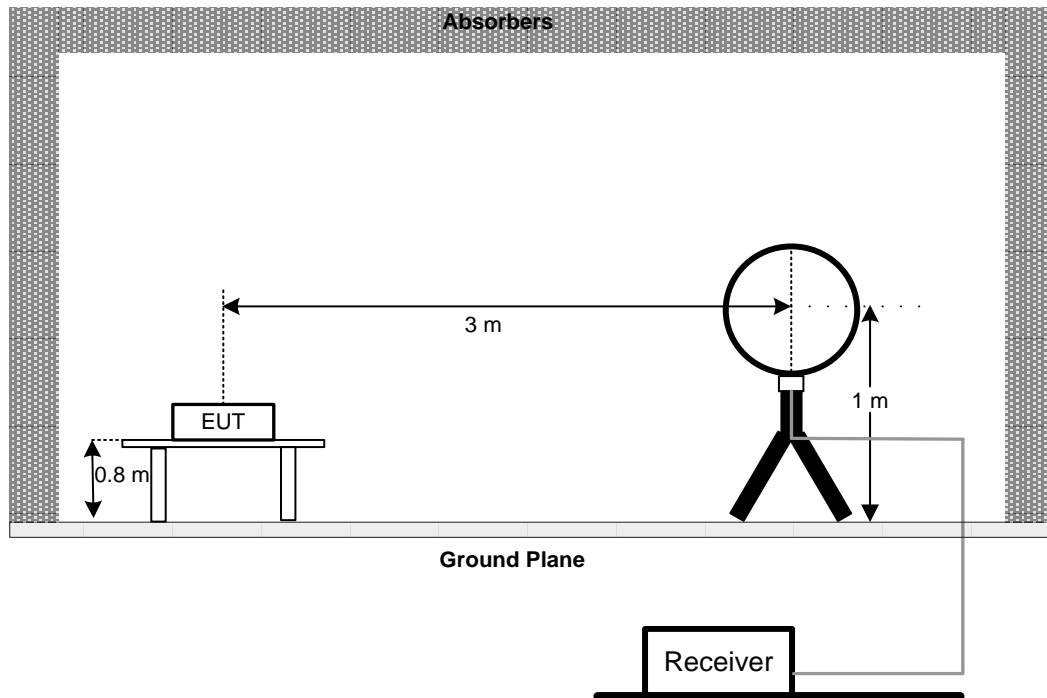
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

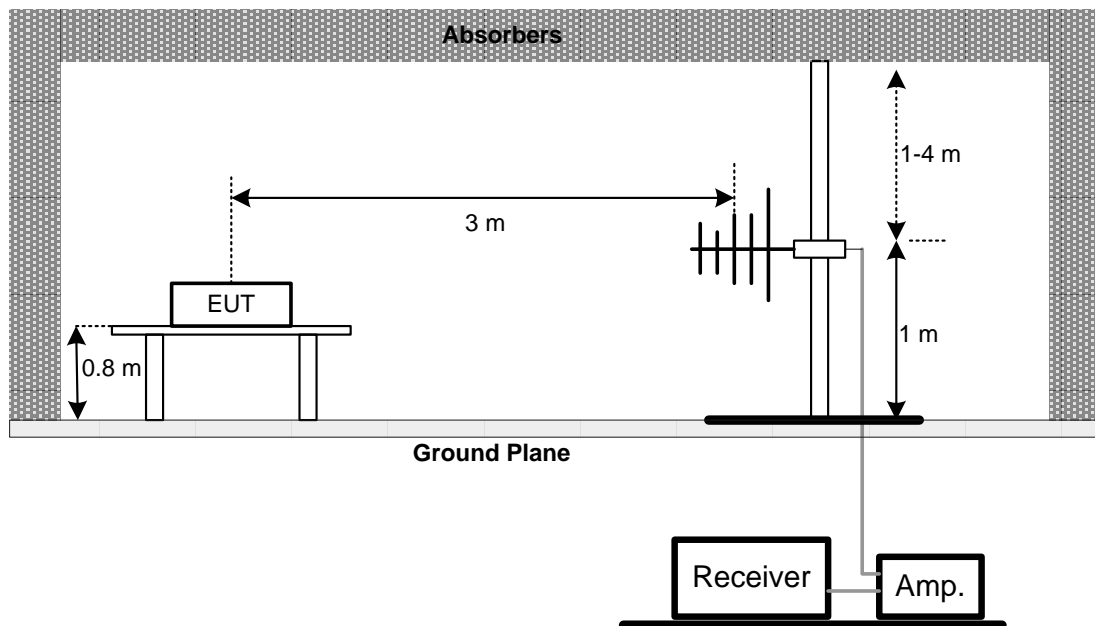
No deviation

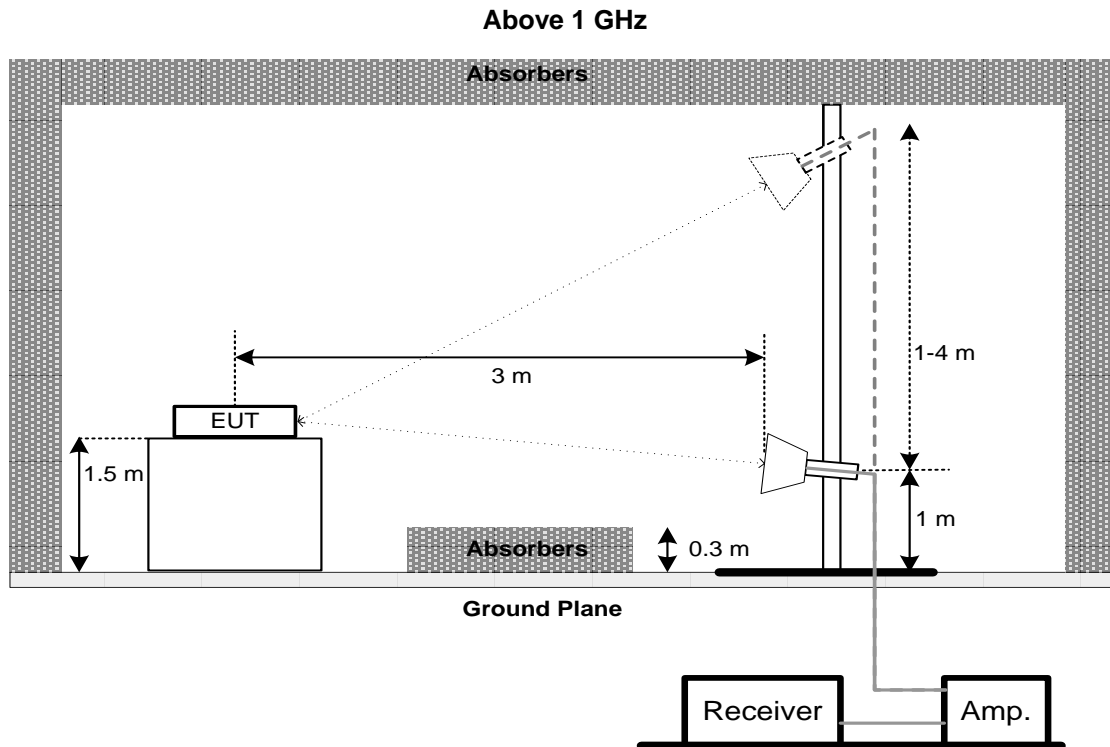
#### 4.4 TEST SETUP

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. 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 /6 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.

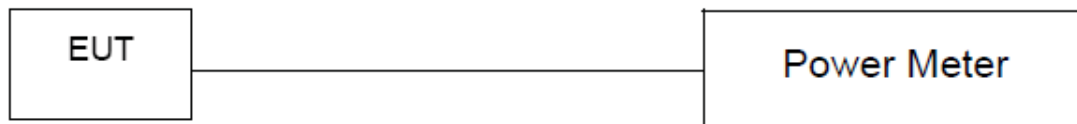
### 6.2 TEST PROCEDURE

- 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

For UNII-1:

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

For UNII-3:

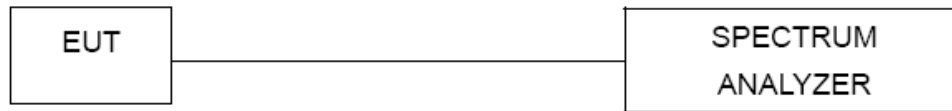
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	100 kHz.
VBW	300 kHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 100kHz and VBW at 300kHz if the spectrum analyzer does not have 500 kHz RBW.
- The value measured with RBW=100kHz is to be added with  $10\log(500 \text{ kHz}/100\text{kHz})$  which is +7 dB. For example, if the measured value is +10dBm using RBW=100kHz (that is +10 dBm/MHz), then the converted value will be +17dBm/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:

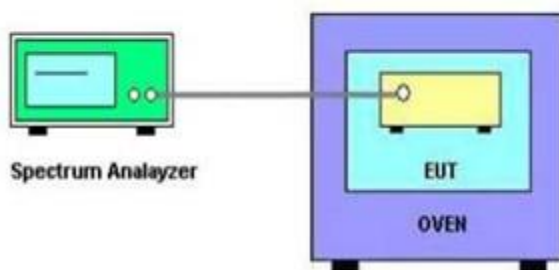
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- 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	Feb. 28, 2021
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	Loop Antenna	EM	EM-6876-1	230	Apr. 16, 2021
2	Cable	N/A	RG 213/U	N/A	May 29, 2021
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	2944A09673	Aug. 11, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 21, 2021
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	75789	Mar. 19, 2021
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2021
3	Amplifier	Agilent	8449B	3008A02333	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	Nov. 25, 2020
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth & Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY55150209	Mar. 01, 2021
2	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020

Maximum Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020
2	Wideband power sensor	Keysight	N1923A	MY58310004	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.

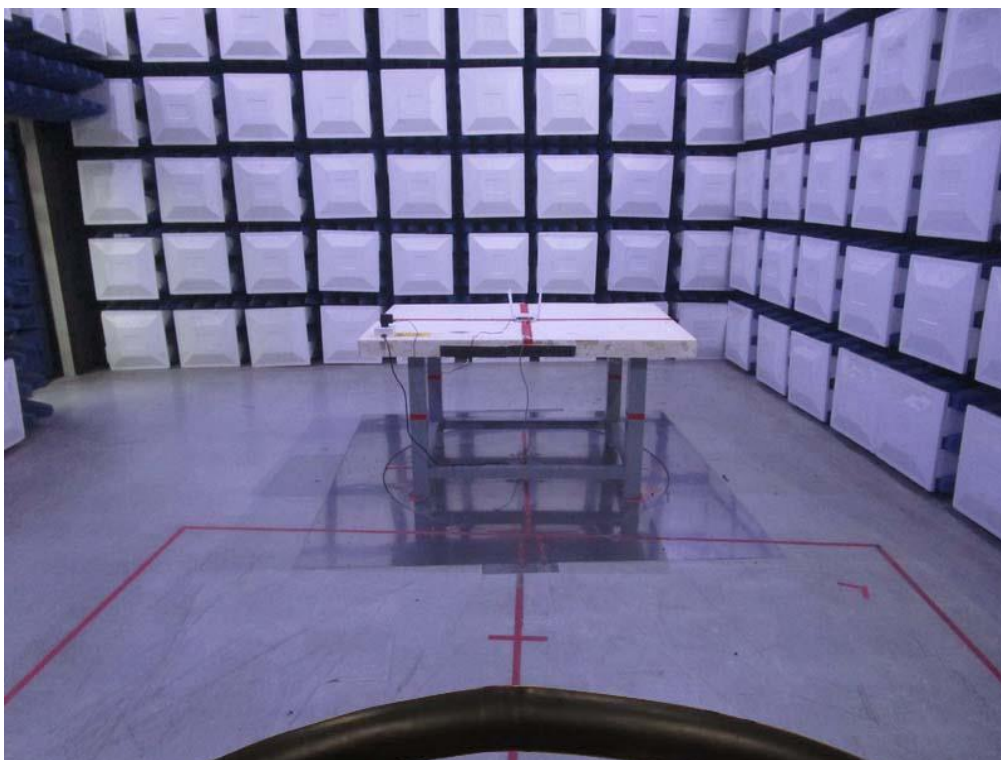
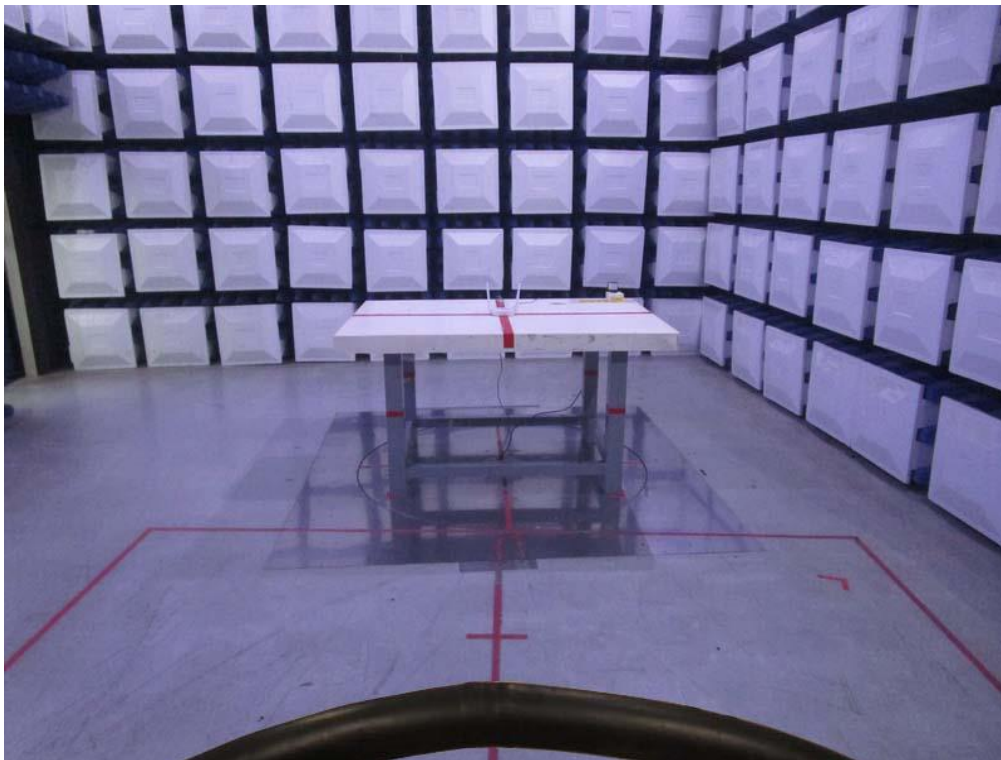
"\*" calibration period of equipment list is three year.

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

## 10. EUT TEST PHOTOS

### AC Power Line Conducted Emissions Test Photos

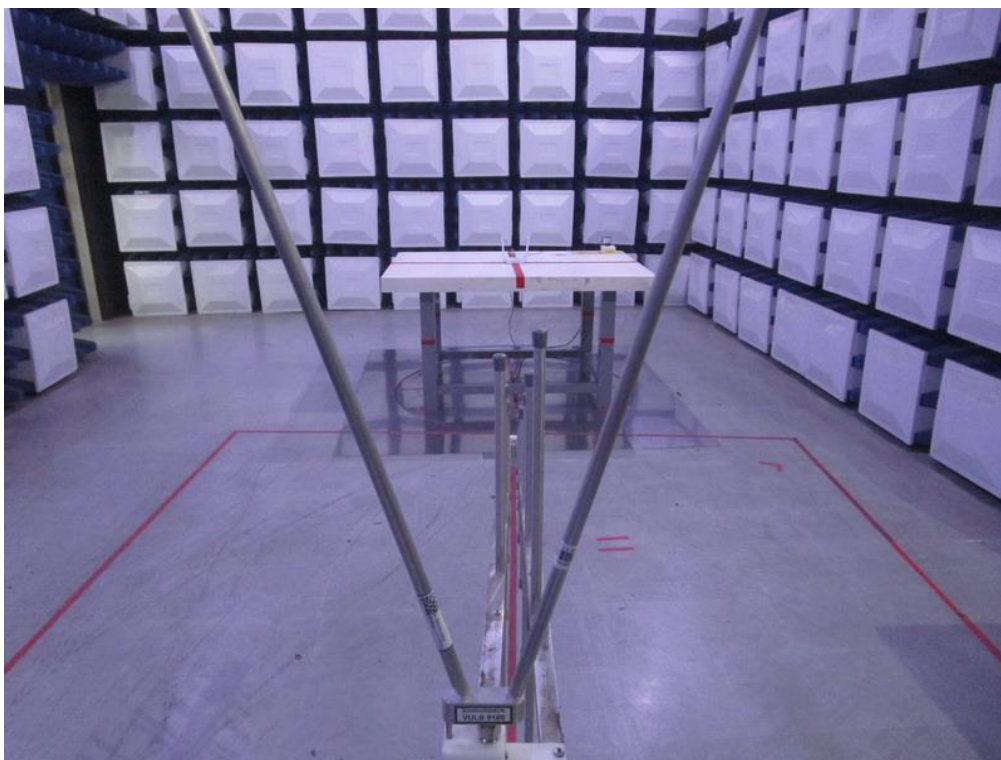


**Radiated Emissions Test Photos****9 kHz to 30 MHz**



## Radiated Emissions Test Photos

30 MHz to 1 GHz





## Radiated Emissions Test Photos

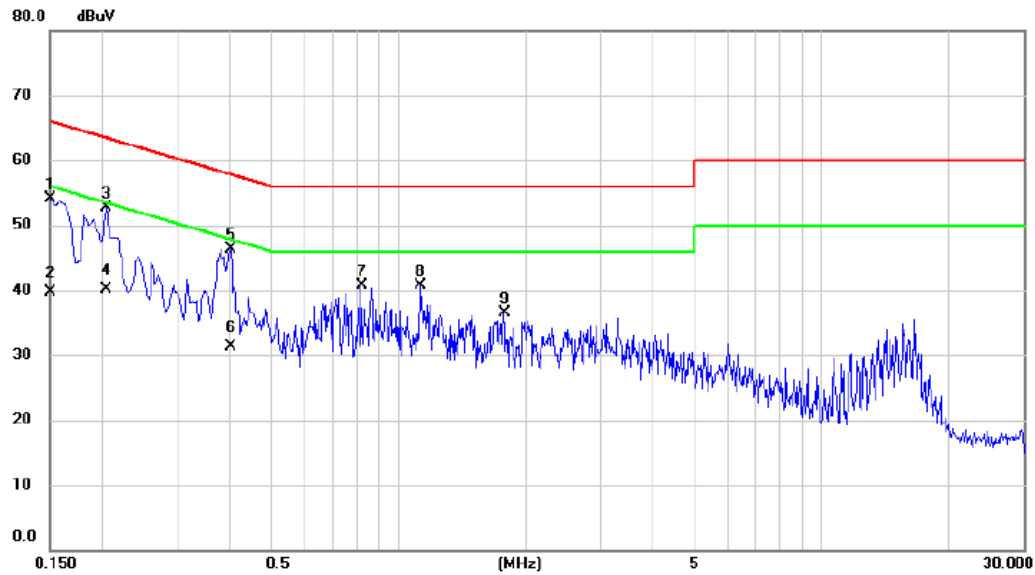
Above 1 GHz



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

Test Mode: TX A MODE CHANNEL 48

## Line



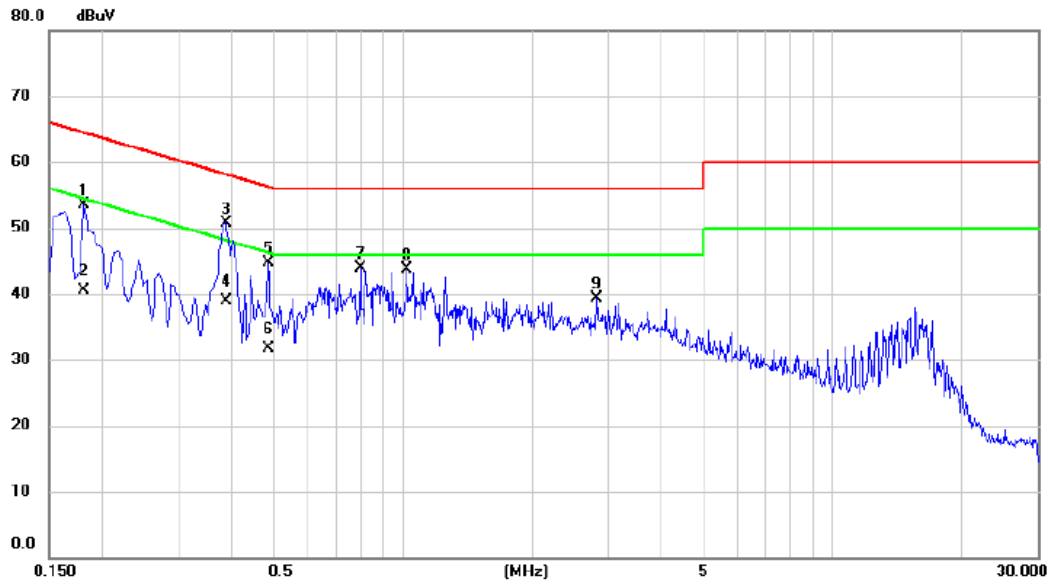
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.150	44.43	9.69	54.12	66.00	-11.88	peak	
2	0.150	30.08	9.69	39.77	56.00	-16.23	AVG	
3 *	0.204	42.96	9.68	52.64	63.45	-10.81	peak	
4	0.204	30.33	9.68	40.01	53.45	-13.44	AVG	
5	0.402	36.64	9.68	46.32	57.81	-11.49	peak	
6	0.402	21.54	9.68	31.22	47.81	-16.59	AVG	
7	0.821	31.01	9.71	40.72	56.00	-15.28	peak	
8	1.131	31.06	9.73	40.79	56.00	-15.21	peak	
9	1.779	26.68	9.77	36.45	56.00	-19.55	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 48

## Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.181	43.83	9.68	53.51	64.42	-10.91	peak	
2		0.181	30.76	9.68	40.44	54.42	-13.98	AVG	
3	*	0.389	40.98	9.68	50.66	58.10	-7.44	peak	
4		0.389	29.30	9.68	38.98	48.10	-9.12	AVG	
5		0.487	35.03	9.69	44.72	56.21	-11.49	peak	
6		0.487	22.04	9.69	31.73	46.21	-14.48	AVG	
7		0.798	34.27	9.71	43.98	56.00	-12.02	peak	
8		1.023	33.98	9.72	43.70	56.00	-12.30	peak	
9		2.832	29.42	9.81	39.23	56.00	-16.77	peak	

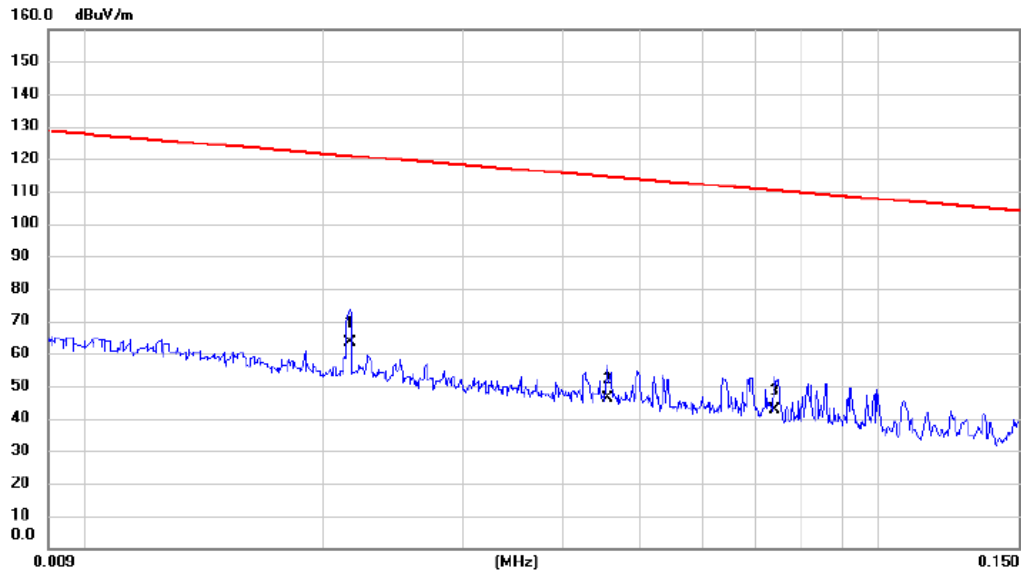
### REMARKS:

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

## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ**

Test Mode: TX A MODE CHANNEL 48

Ant 0°



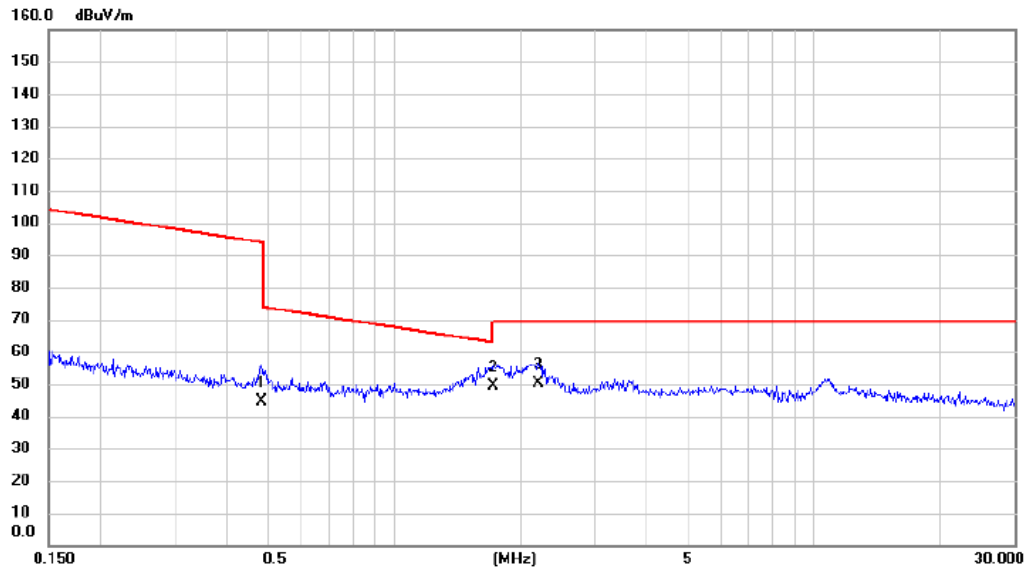
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.022	50.17	13.09	63.26	120.92	-57.66	AVG	
2		0.046	33.86	12.46	46.32	114.43	-68.11	AVG	
3		0.074	30.09	12.48	42.57	110.22	-67.65	AVG	

## REMARKS:

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

Test Mode: TX A MODE CHANNEL 48

Ant 0°



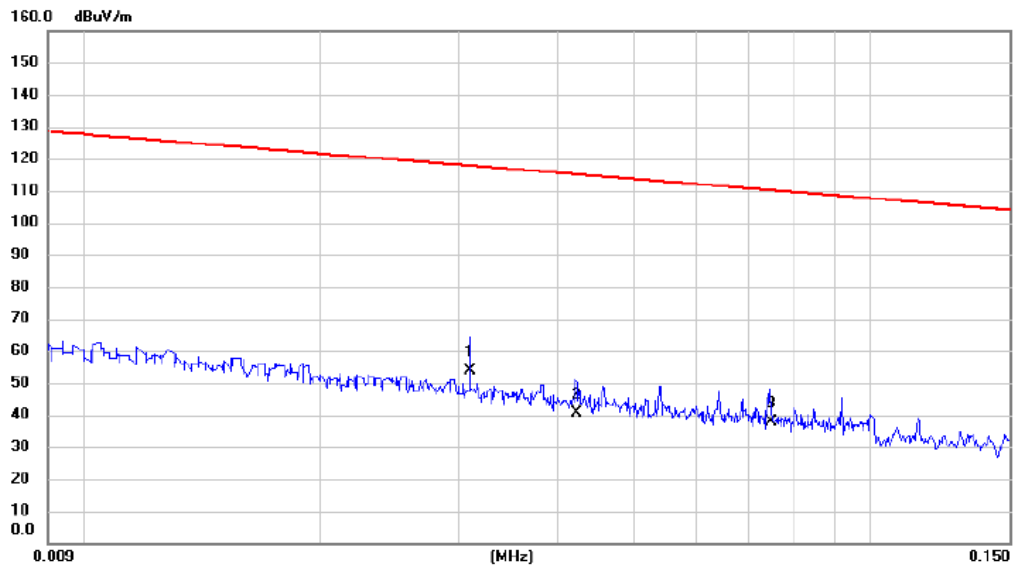
No. Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.484	23.67	20.77	44.44	93.91	-49.47	AVG	
2	1.725	27.64	21.76	49.40	69.54	-20.14	QP	
3 *	2.201	28.28	21.84	50.12	69.54	-19.42	QP	

## REMARKS:

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

Test Mode: TX A MODE CHANNEL 48

Ant 90°



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	0.031	40.84	12.84	53.68	117.78	-64.10	AVG	
2	0.042	28.25	12.55	40.80	115.08	-74.28	AVG	
3	0.075	25.19	12.49	37.68	110.14	-72.46	AVG	

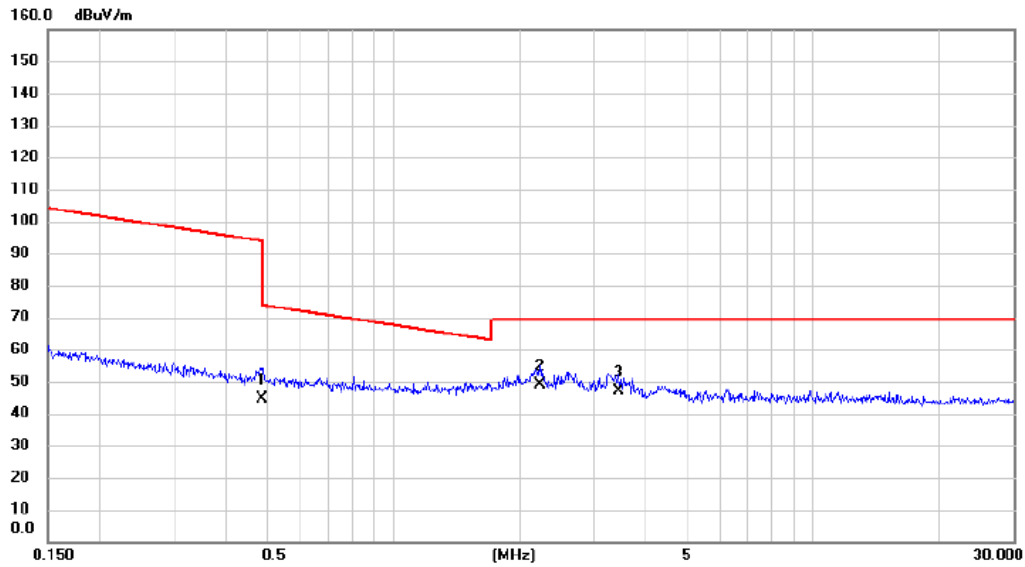
## REMARKS:

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



Test Mode: TX A MODE CHANNEL 48

Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.486	32.82	11.83	44.65	93.87	-49.22	QP	
2	*	2.237	37.87	10.95	48.82	69.54	-20.72	QP	
3		3.436	36.56	10.56	47.12	69.54	-22.42	QP	

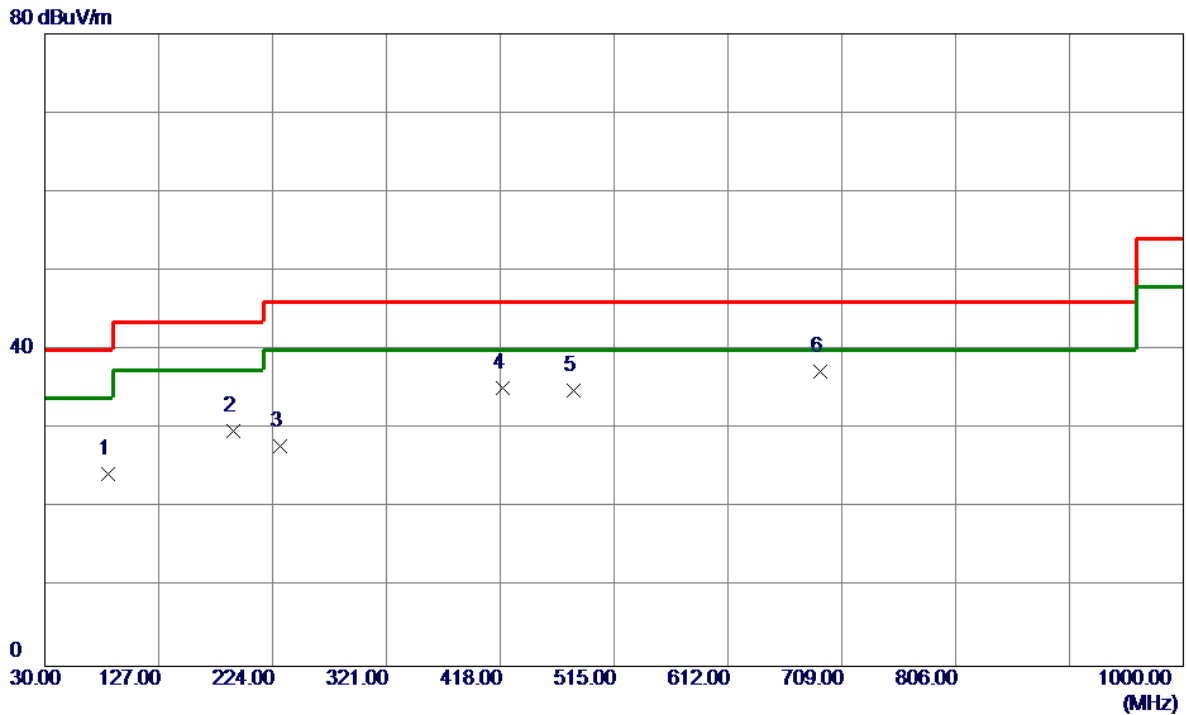
## REMARKS:

- (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 48

## Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	84.3200	41.26	-16.89	24.37	40.00	-15.63	Peak	
2	190.0500	43.79	-14.10	29.69	43.50	-13.81	Peak	
3	230.7900	41.72	-13.84	27.88	46.00	-18.12	Peak	
4	419.9400	43.70	-8.46	35.24	46.00	-10.76	Peak	
5	480.0800	42.34	-7.41	34.93	46.00	-11.07	Peak	
6 *	690.5700	41.06	-3.71	37.35	46.00	-8.65	Peak	

### REMARKS:

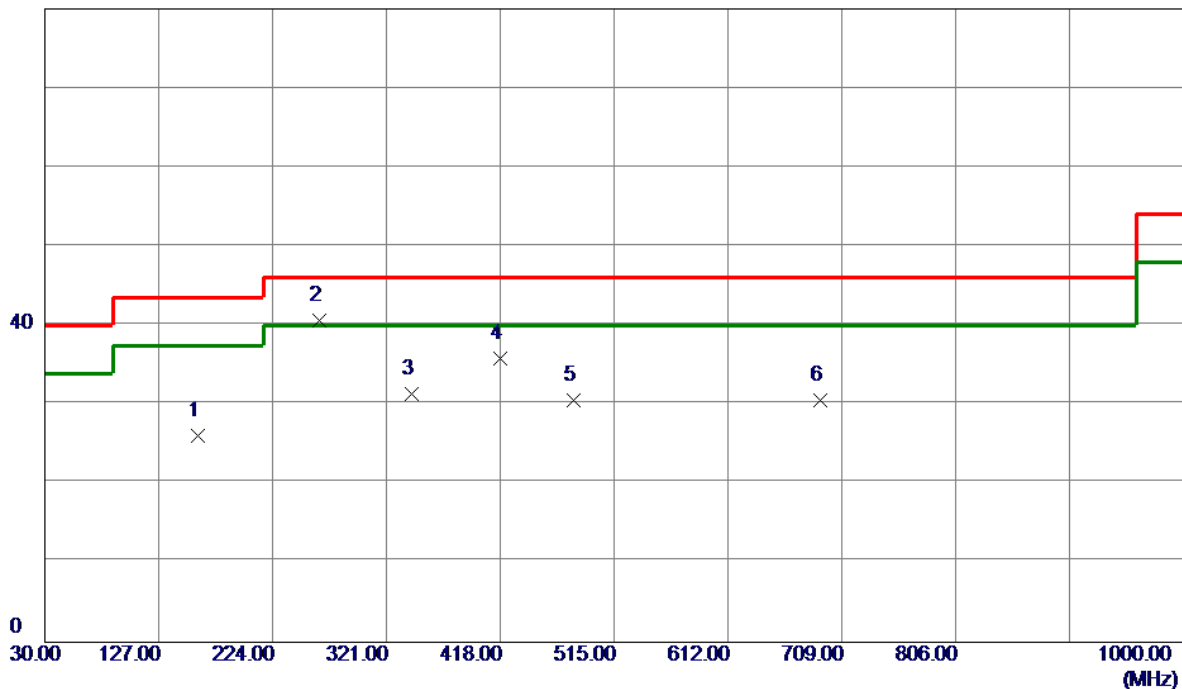
(1) Measurement Value = Reading Level + Correct Factor.

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

Test Mode: TX A MODE CHANNEL 48

## 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	159.9800	36.80	-10.67	26.13	43.50	-17.37	Peak	
2 *	263.7700	53.03	-12.38	40.65	46.00	-5.35	Peak	
3	342.3400	41.70	-10.33	31.37	46.00	-14.63	Peak	
4	418.0000	44.36	-8.51	35.85	46.00	-10.15	Peak	
5	480.0800	37.96	-7.41	30.55	46.00	-15.45	Peak	
6	690.5700	34.32	-3.71	30.61	46.00	-15.39	Peak	

### REMARKS:

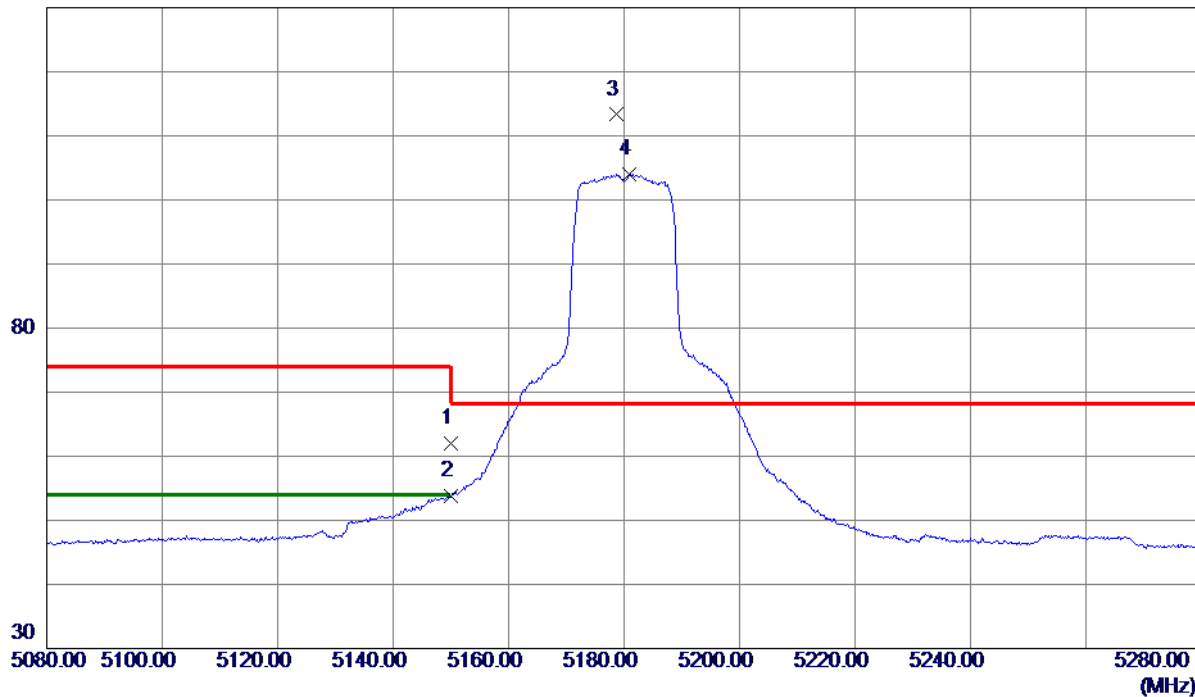
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ**

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

## Vertical

130 dBuV/m



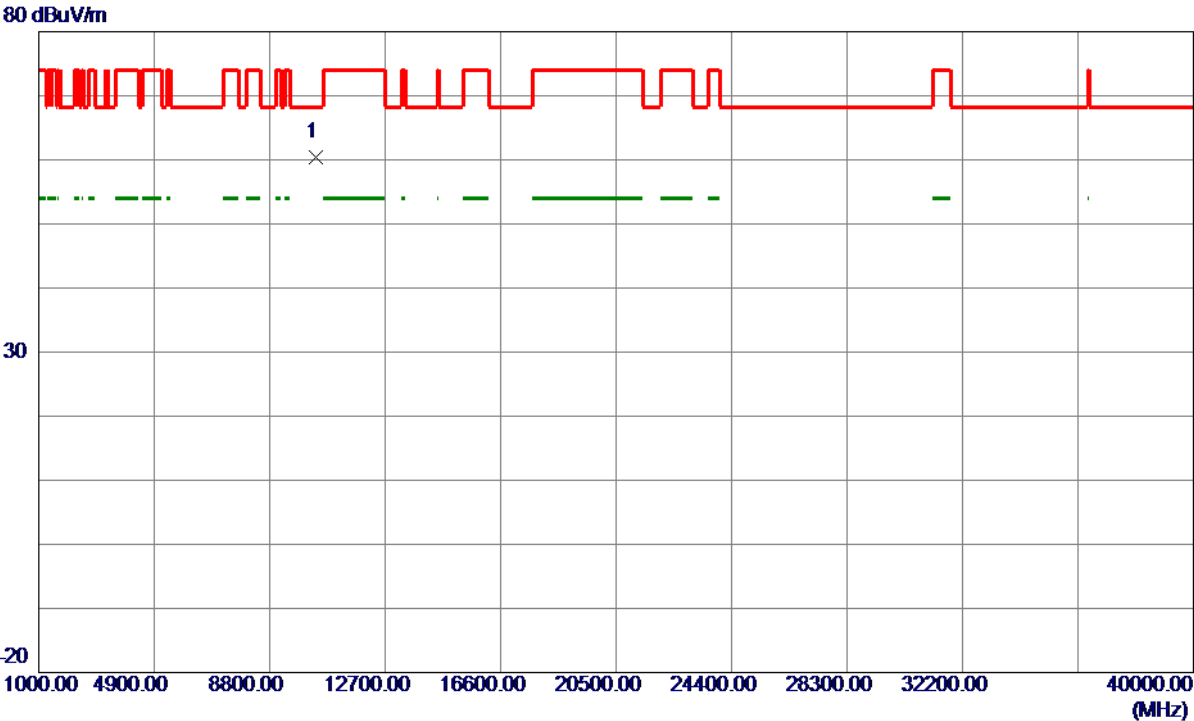
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	44.67	17.26	61.93	74.00	-12.07	Peak	
2	5150.0000	36.53	17.26	53.79	54.00	-0.21	AVG	
3 *	5178.6000	95.98	17.32	113.30	68.30	45.00	Peak	No Limit
4	5180.9000	86.72	17.32	104.04	999.00	-894.96	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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10363.5500	45.74	14.63	60.37	68.30	-7.93	Peak	

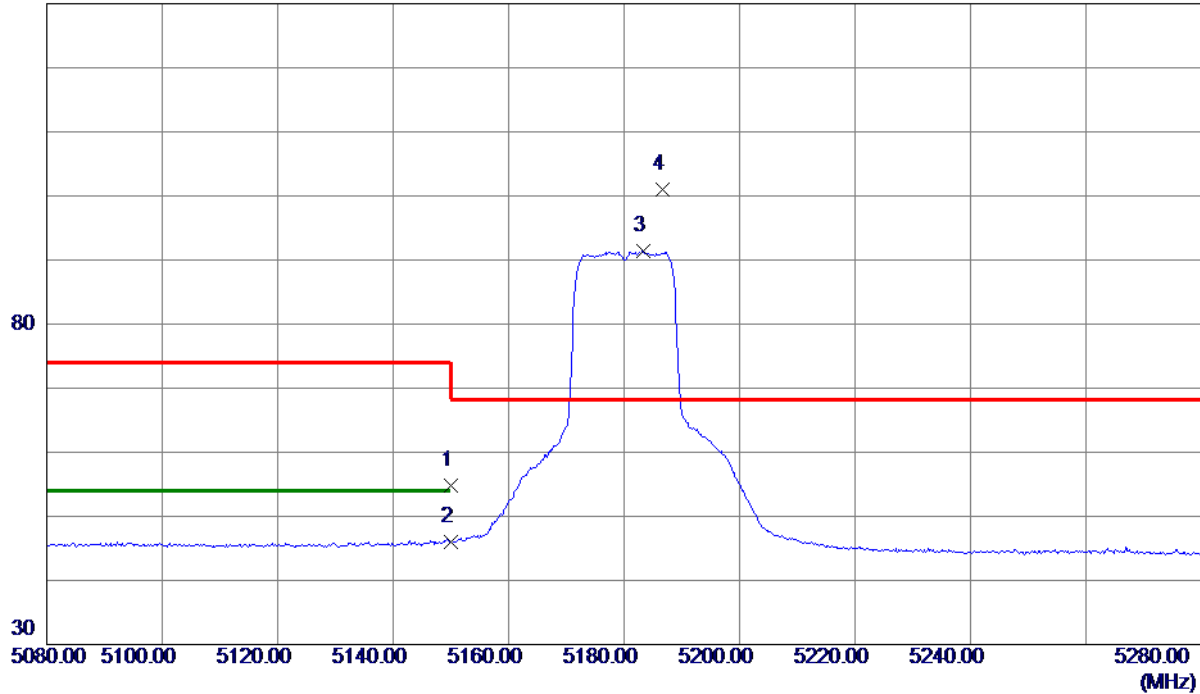
#### REMARKS:

- (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	37.50	17.26	54.76	74.00	-19.24	Peak	
2	5150.0000	28.73	17.26	45.99	54.00	-8.01	AVG	
3	5183.4000	73.98	17.33	91.31	999.00	-907.69	AVG	No Limit
4 *	5186.6000	83.68	17.33	101.01	68.30	32.71	Peak	No Limit

### REMARKS:

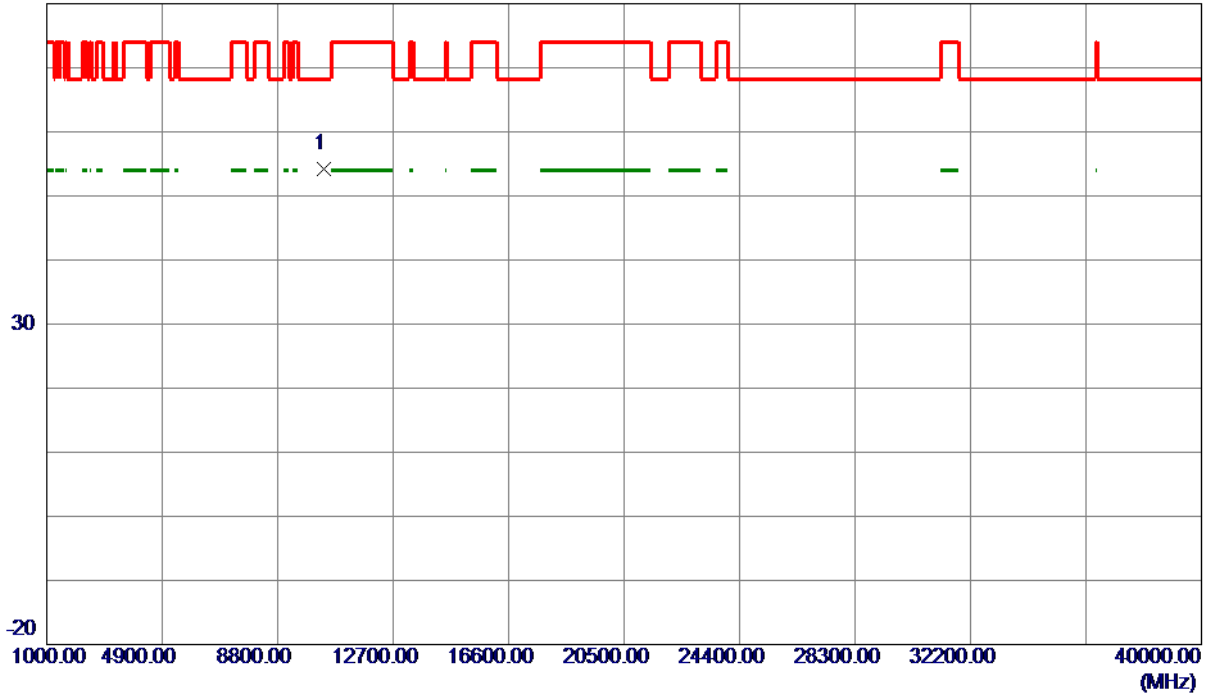
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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 *	10363.1100	39.54	14.63	54.17	68.30	-14.13	Peak	

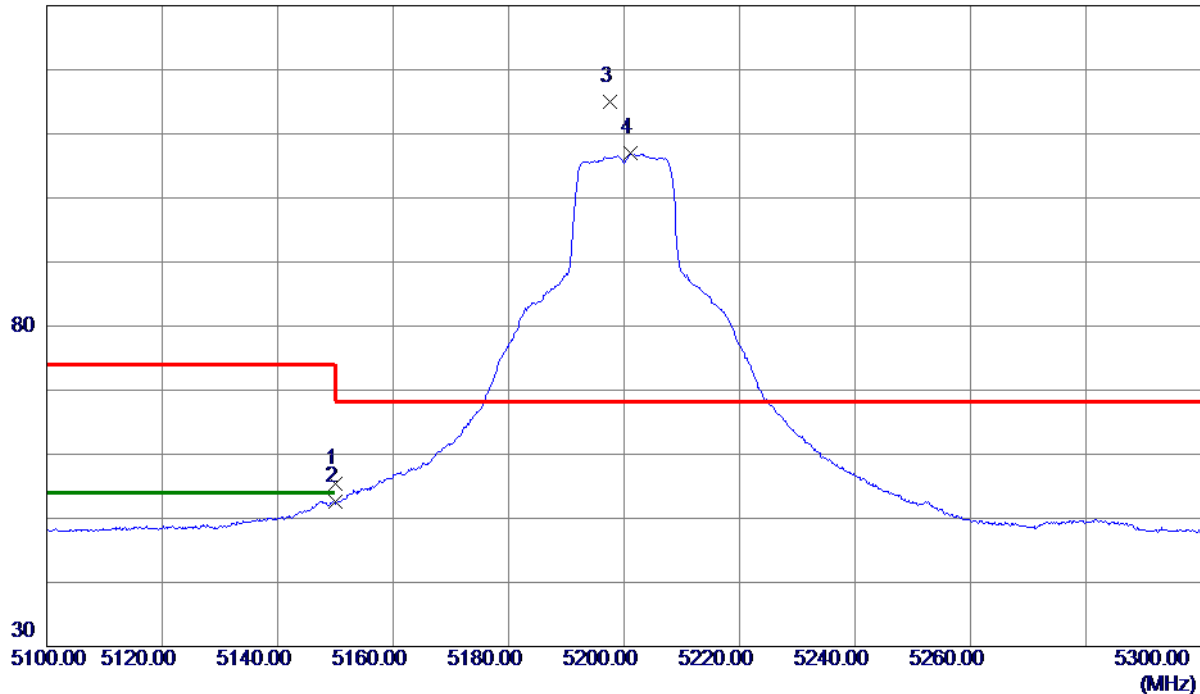
### REMARKS:

- (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	5150.0000	38.10	17.26	55.36	74.00	-18.64	Peak	
2	5150.0000	35.27	17.26	52.53	54.00	-1.47	AVG	
3 *	5197.5000	97.62	17.35	114.97	68.30	46.67	Peak	No Limit
4	5201.1000	89.59	17.36	106.95	999.00	-892.05	AVG	No Limit

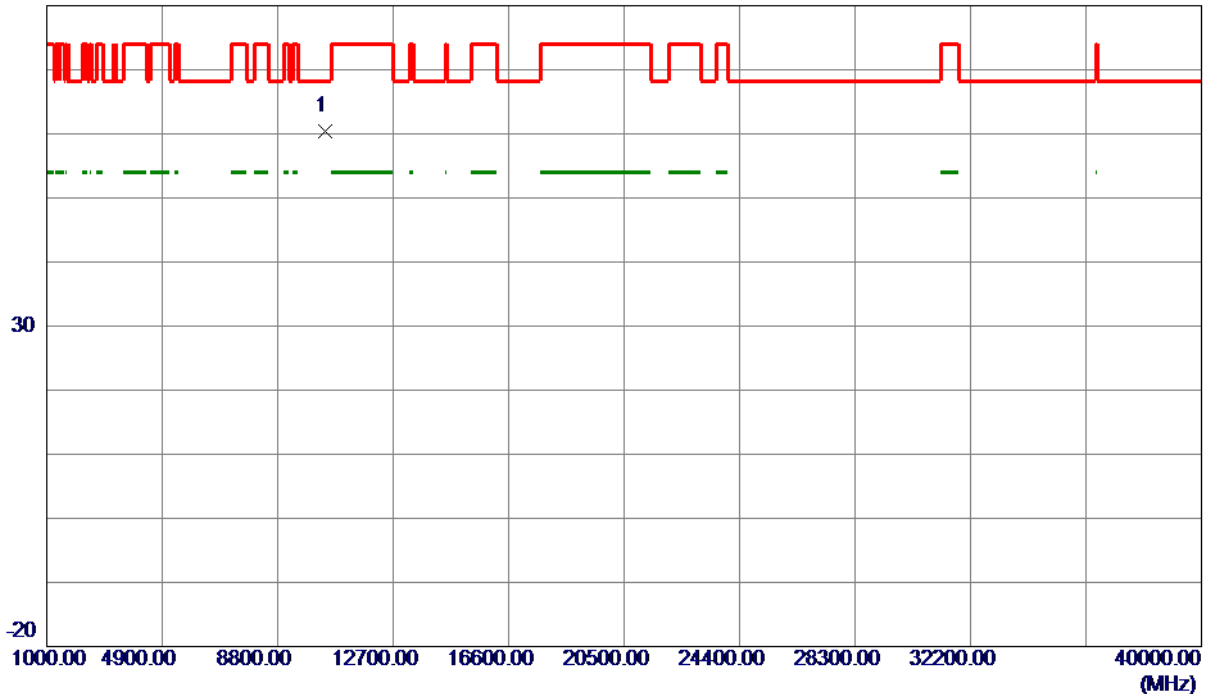
### REMARKS:

- (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 *	10406.0750	45.66	14.70	60.36	68.30	-7.94	Peak	

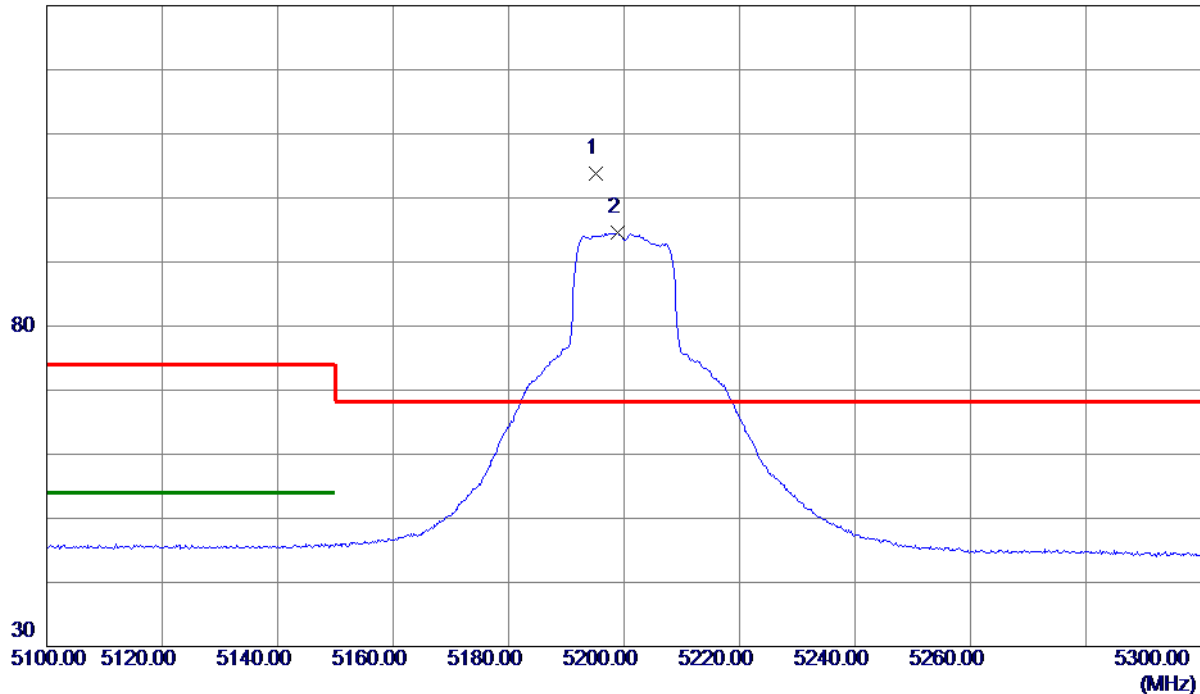
### REMARKS:

- (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 *	5195.2000	86.48	17.35	103.83	68.30	35.53	Peak	No Limit
2	5198.8000	77.16	17.36	94.52	999.00	-904.48	AVG	No Limit

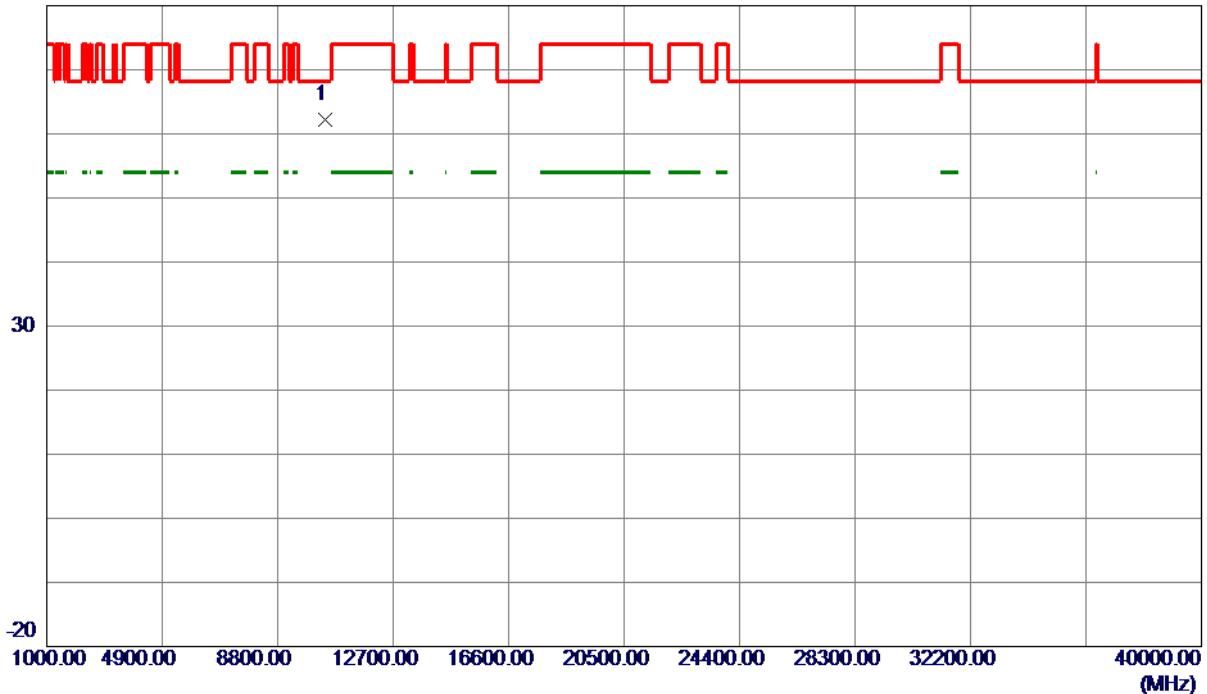
### REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX 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 *	10398.8200	47.47	14.69	62.16	68.30	-6.14	Peak	

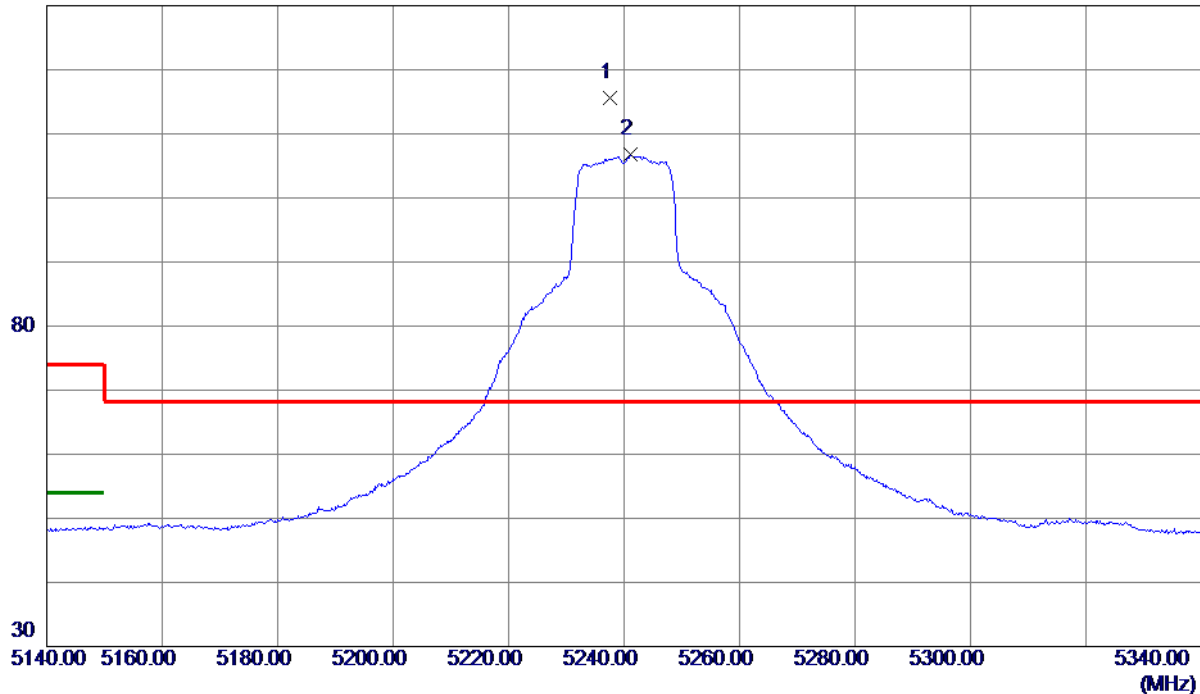
### REMARKS:

- (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



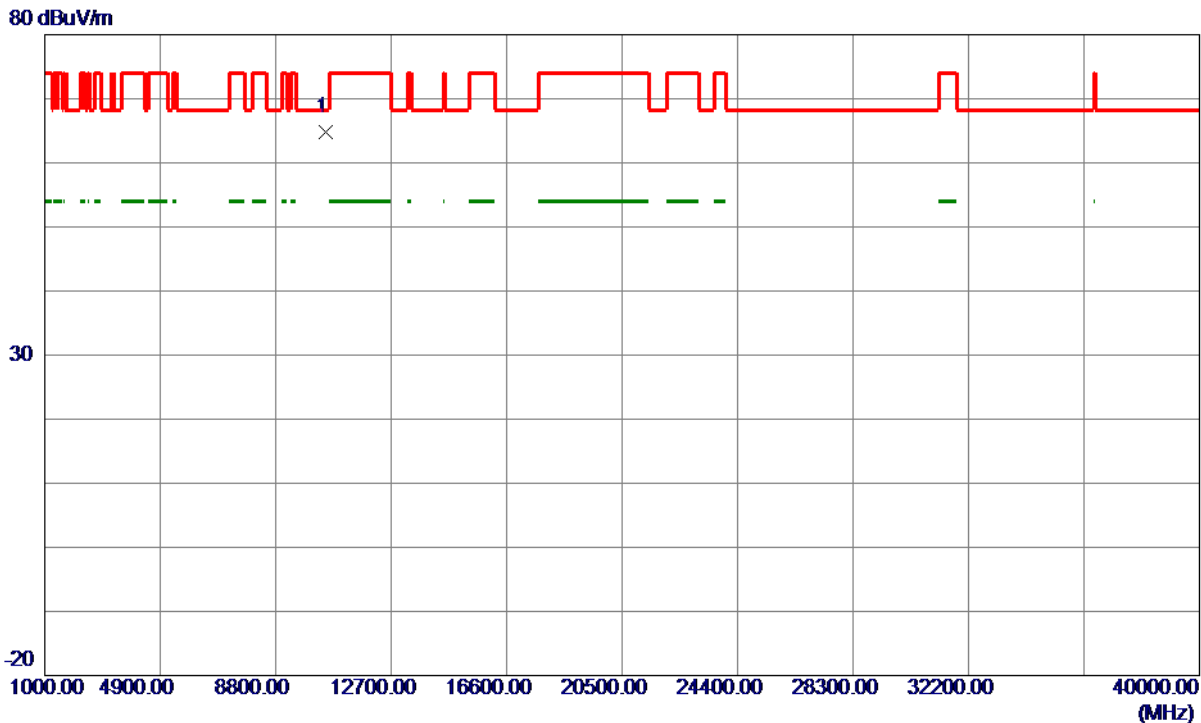
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5237.6000	98.15	17.43	115.58	68.30	47.28	Peak	No Limit
2	5241.1000	89.35	17.44	106.79	999.00	-892.21	AVG	No Limit

### 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

### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10479.8750	49.90	14.83	64.73	68.30	-3.57	Peak	

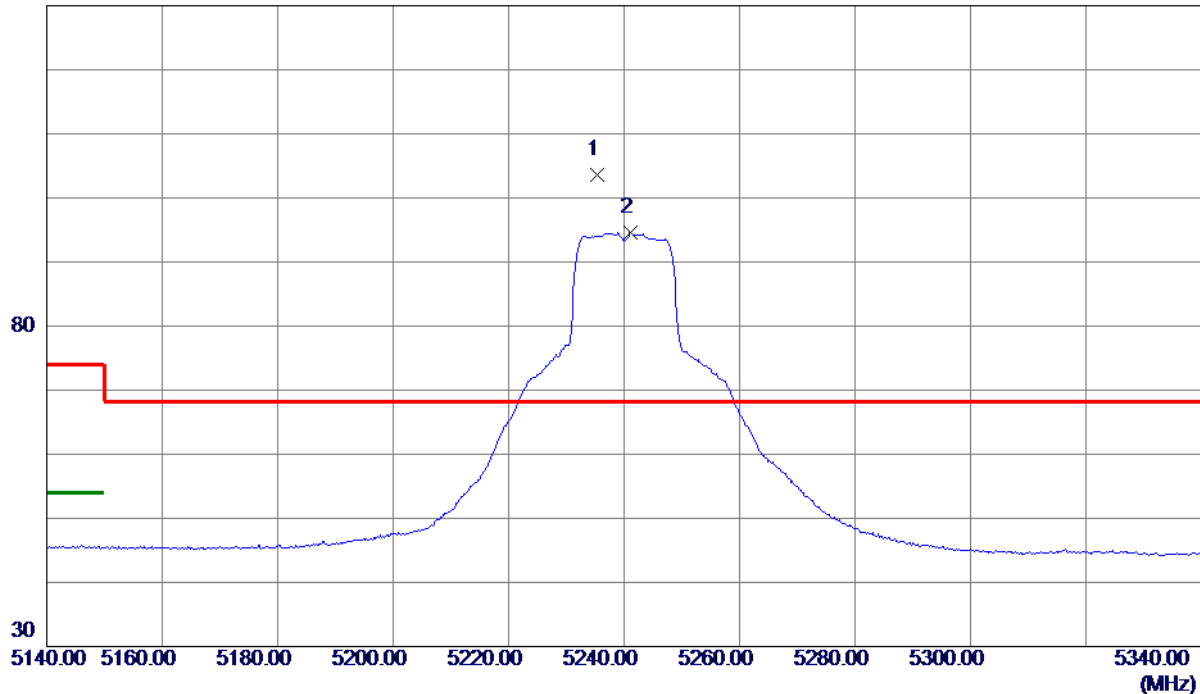
### REMARKS:

- (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 *	5235.4000	86.15	17.43	103.58	68.30	35.28	Peak	No Limit
2	5241.2000	77.14	17.44	94.58	999.00	-904.42	AVG	No Limit

### REMARKS:

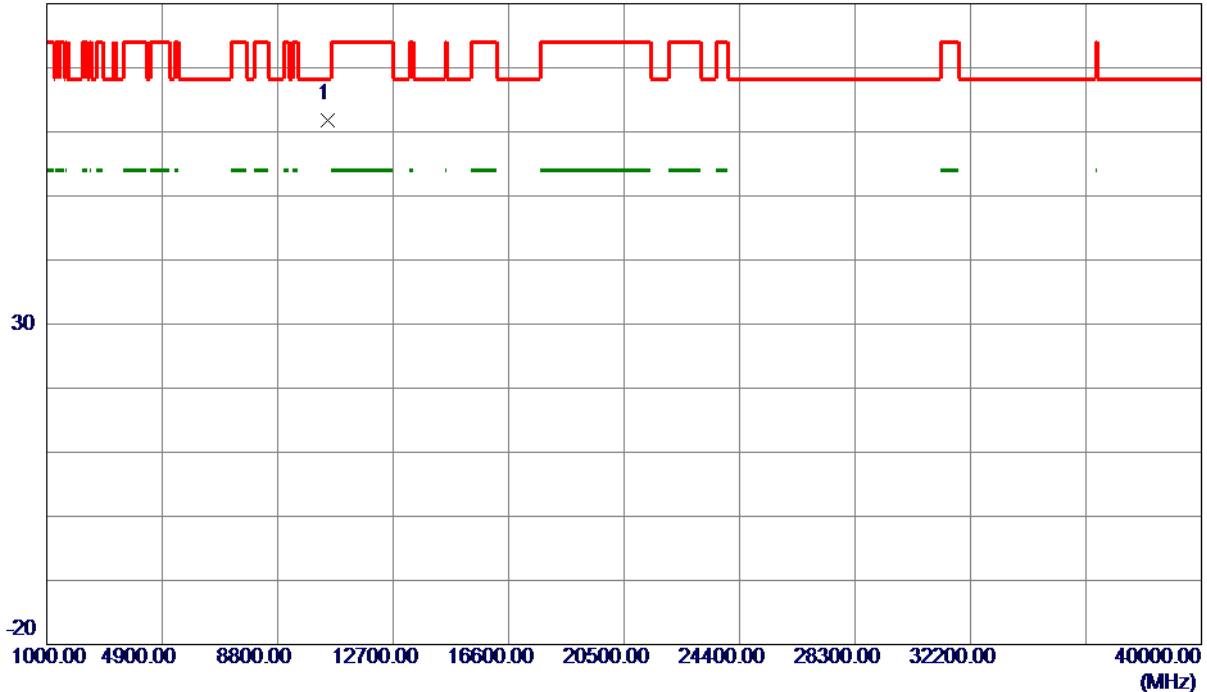
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



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

## Horizontal

80 dBuV/m



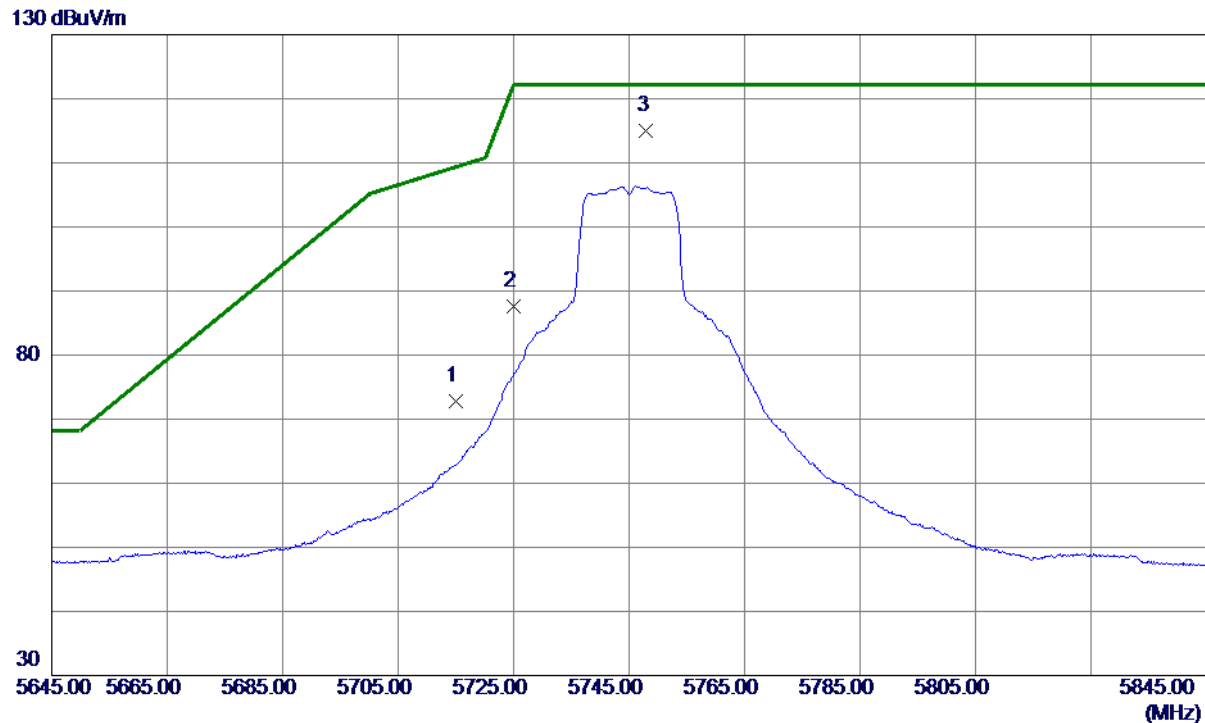
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10476.4800	47.08	14.82	61.90	68.30	-6.40	Peak	

### 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 5745 MHz

## Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	54.08	18.65	72.73	109.40	-36.67	Peak	
2	5725.0000	68.93	18.69	87.62	122.20	-34.58	Peak	
3 *	5748.0000	96.24	18.76	115.00	122.20	-7.20	Peak	No Limit

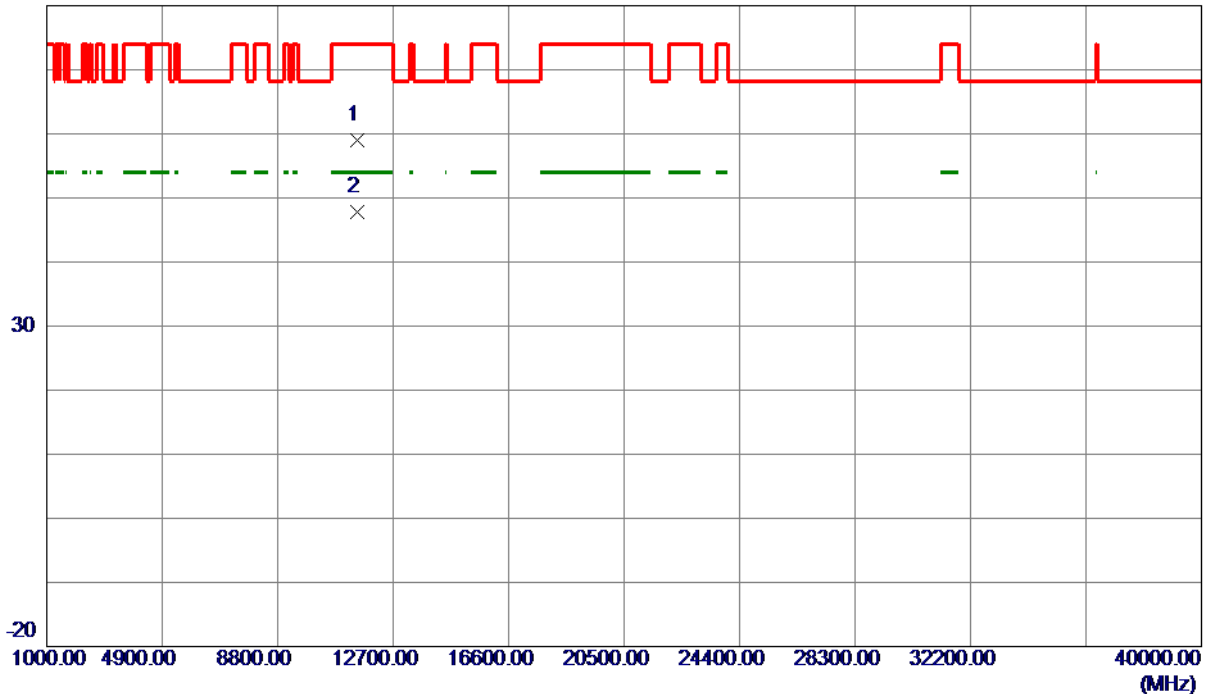
### REMARKS:

- (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	11490.6529	41.93	17.16	59.09	74.00	-14.91	Peak	
2 *	11490.6529	30.65	17.16	47.81	54.00	-6.19	AVG	

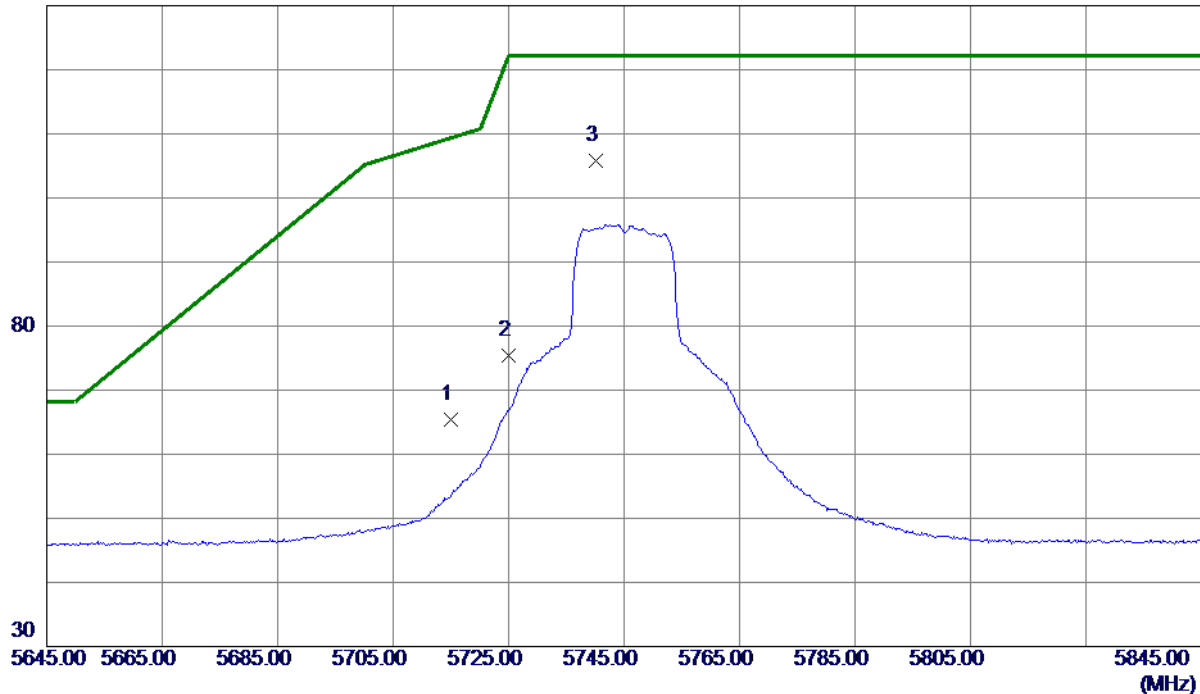
### REMARKS:

- (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

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	5715.0000	46.82	18.65	65.47	109.40	-43.93	Peak	
2	5725.0000	56.66	18.69	75.35	122.20	-46.85	Peak	
3 *	5740.2000	86.99	18.74	105.73	122.20	-16.47	Peak	No Limit

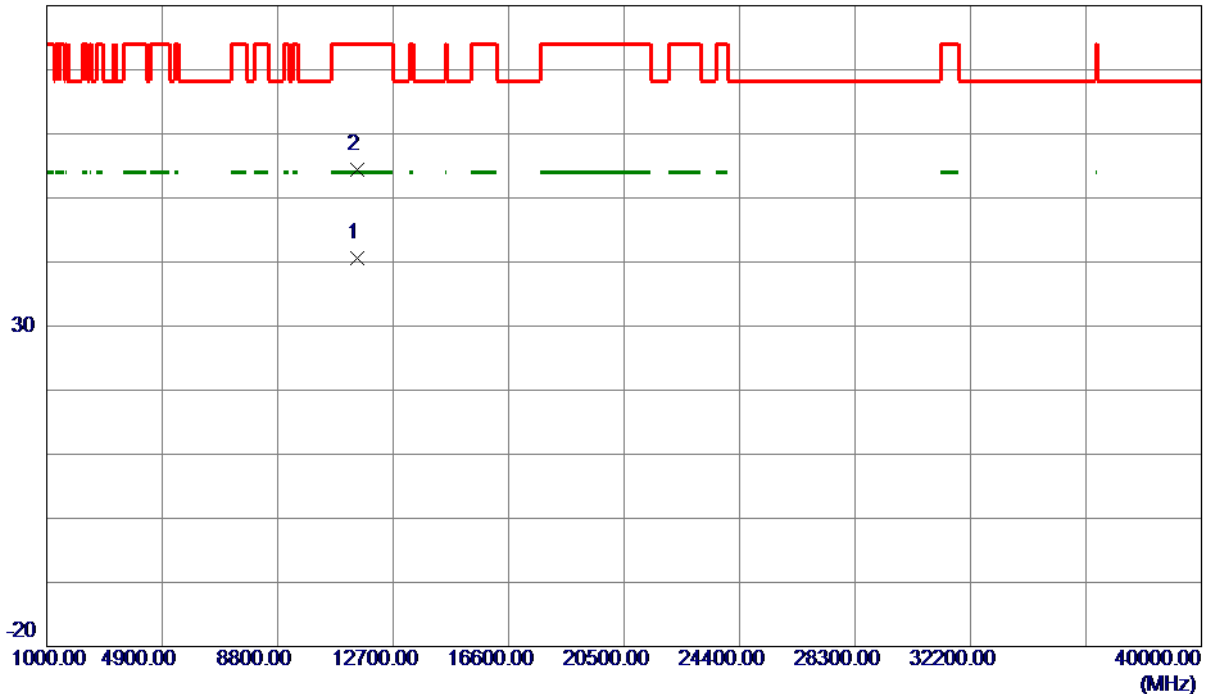
### REMARKS:

- (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



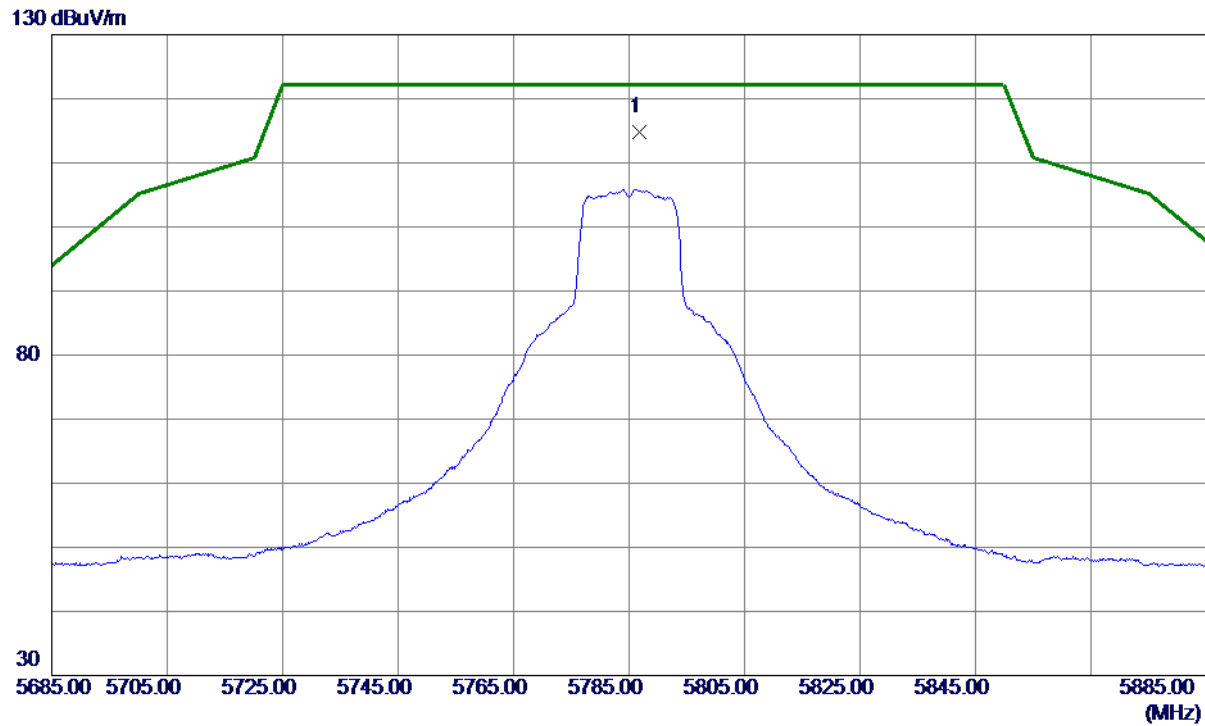
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.0750	23.42	17.16	40.58	54.00	-13.42	AVG	
2	11491.7550	37.31	17.16	54.47	74.00	-19.53	Peak	

### 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



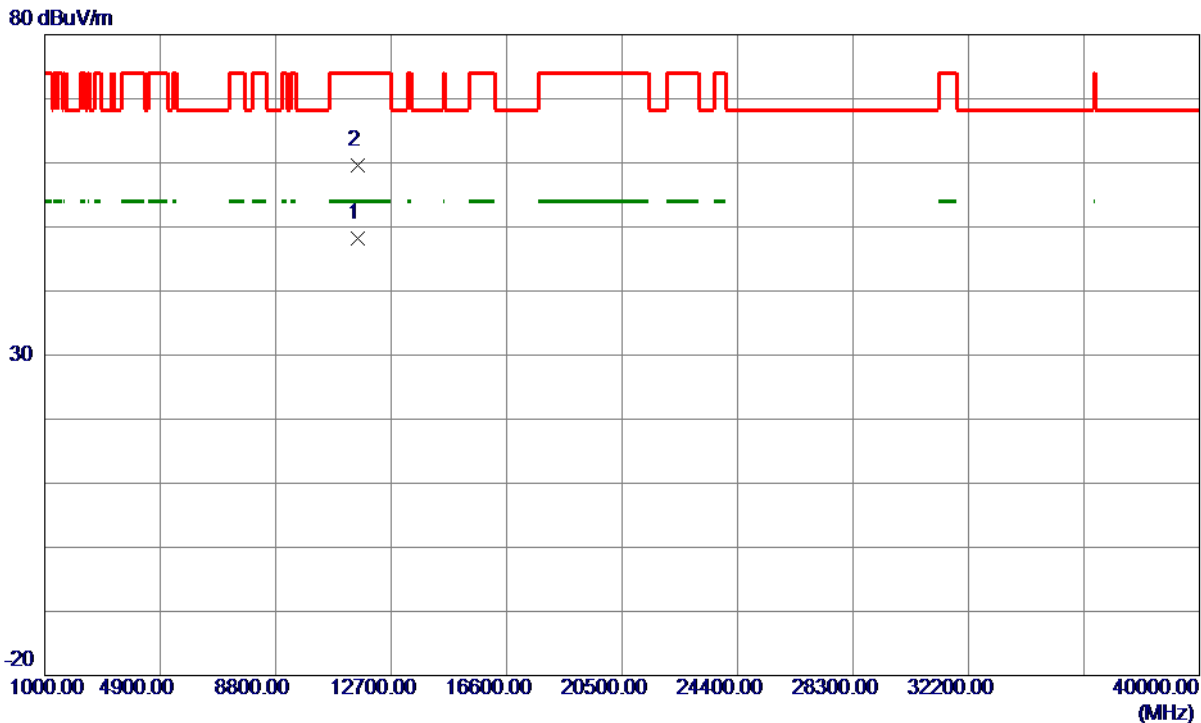
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5786.7000	95.83	18.89	114.72	122.20	-7.48	Peak	No Limit

### 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



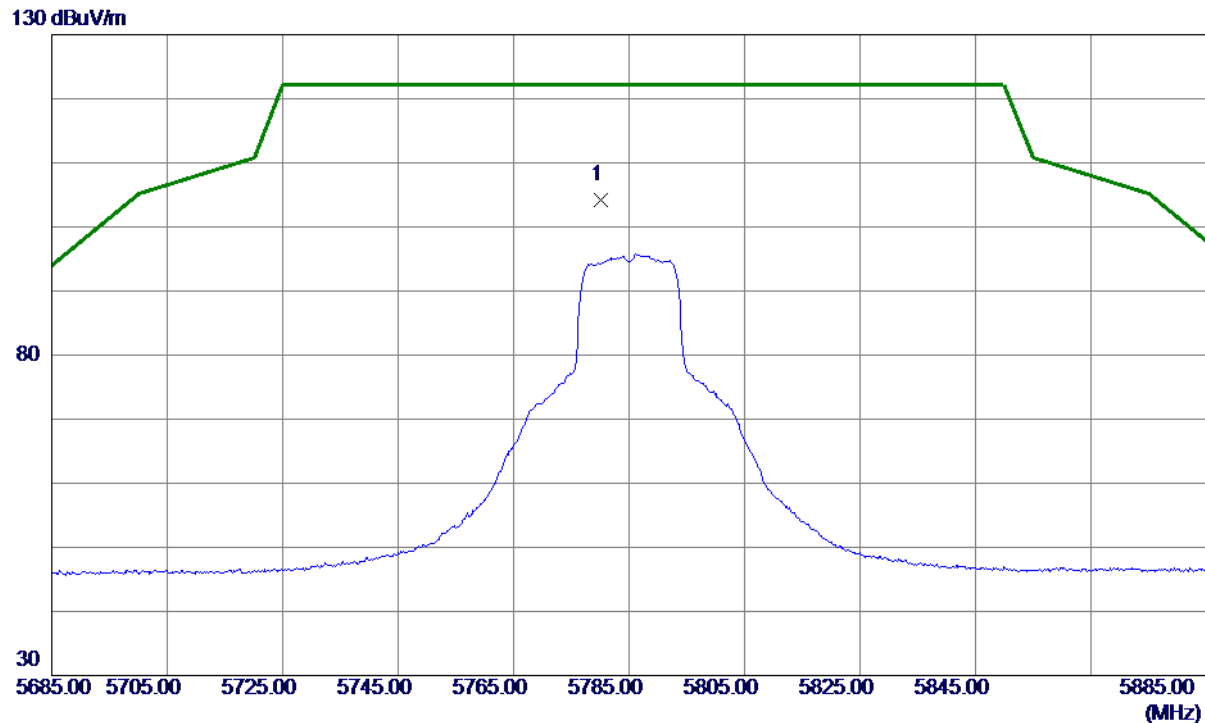
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.3830	30.91	17.20	48.11	54.00	-5.89	AVG	
2	11570.4840	42.40	17.20	59.60	74.00	-14.40	Peak	

#### 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

## Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5780.2000	85.41	18.87	104.28	122.20	-17.92	Peak	No Limit

### REMARKS:

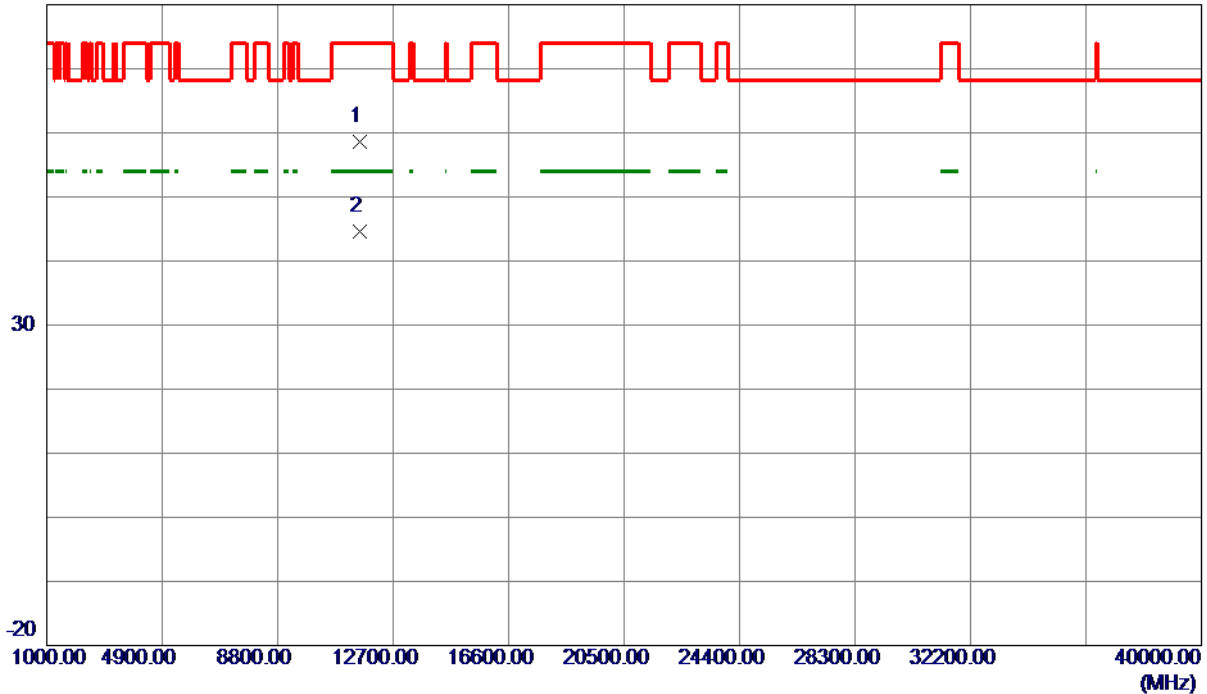
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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

## Horizontal

80 dBuV/m



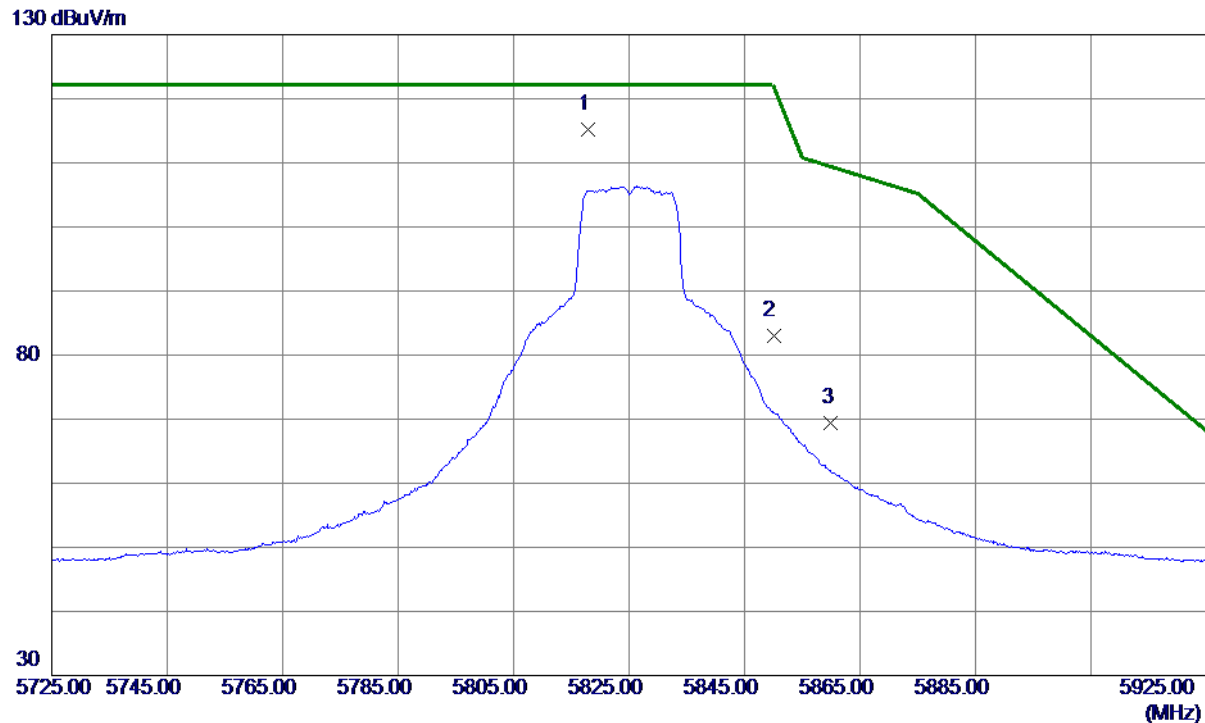
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11571.8750	41.32	17.20	58.52	74.00	-15.48	Peak	
2 *	11572.2050	27.31	17.20	44.51	54.00	-9.49	AVG	

### 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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5817.8000	96.27	18.99	115.26	122.20	-6.94	Peak	No Limit
2	5850.0000	63.87	19.09	82.96	122.20	-39.24	Peak	
3	5860.0000	50.36	19.13	69.49	109.40	-39.91	Peak	

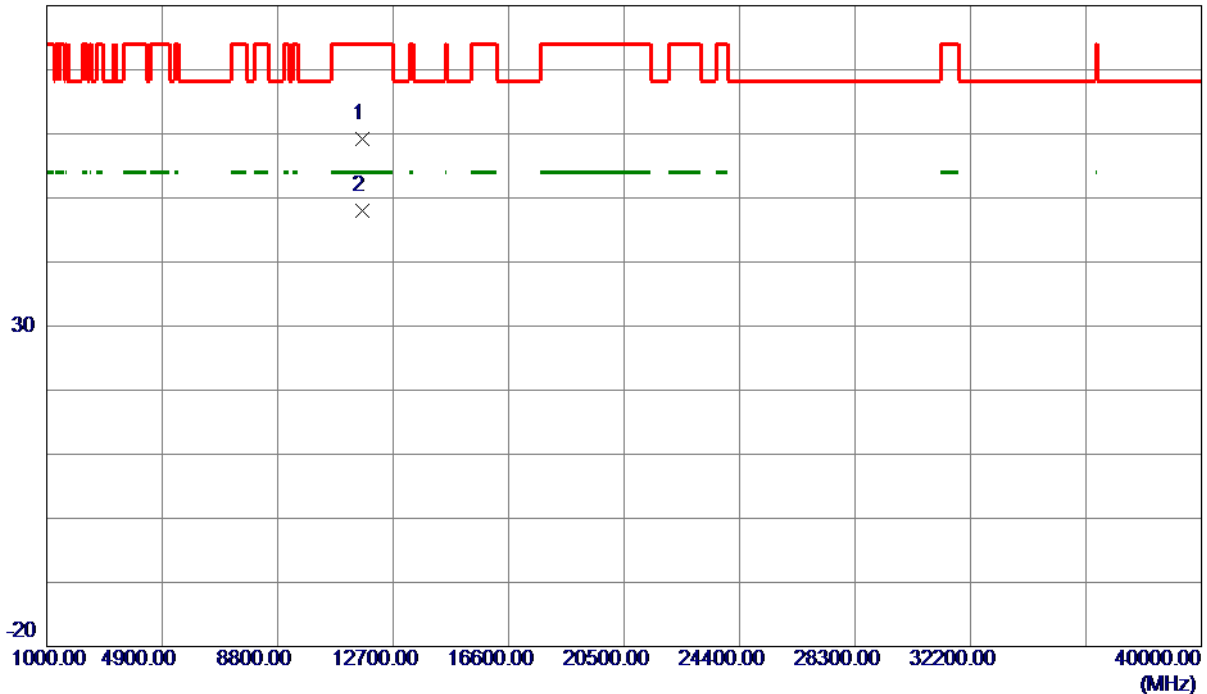
### REMARKS:

- (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



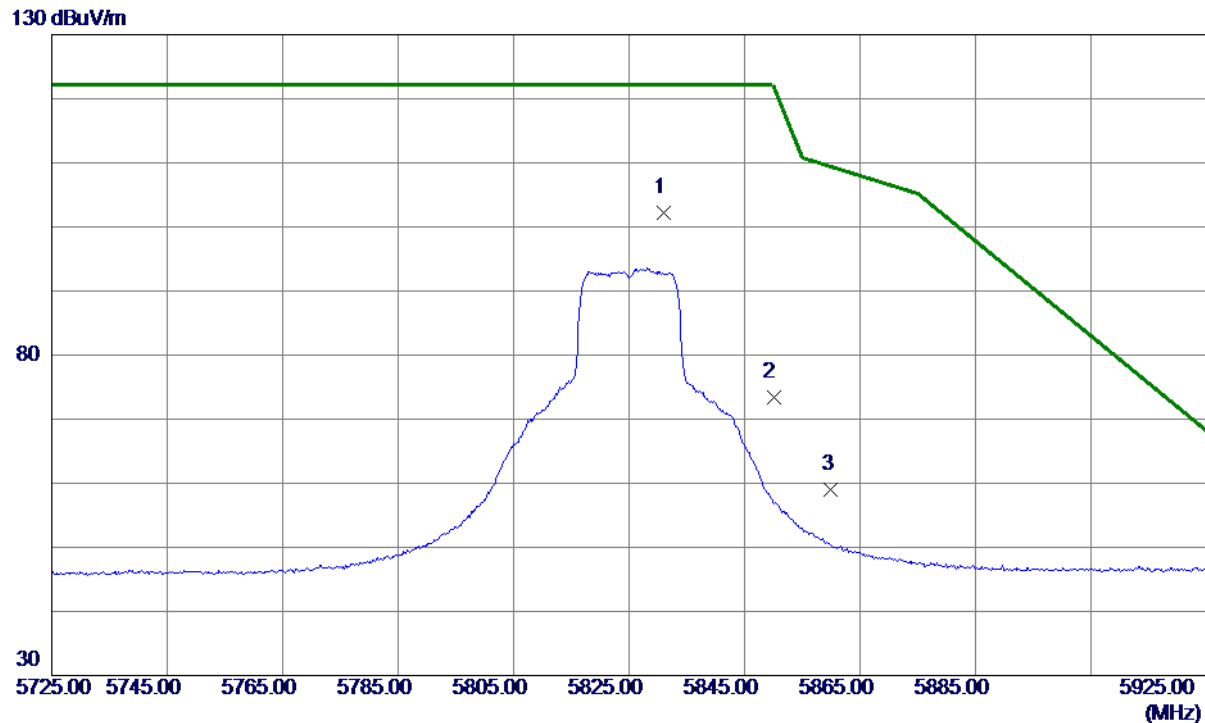
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11649.5570	41.95	17.23	59.18	74.00	-14.82	Peak	
2 *	11649.7500	30.78	17.23	48.01	54.00	-5.99	AVG	

### 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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5831.0000	83.11	19.03	102.14	122.20	-20.06	Peak	No Limit
2	5850.0000	54.31	19.09	73.40	122.20	-48.80	Peak	
3	5860.0000	39.81	19.13	58.94	109.40	-50.46	Peak	

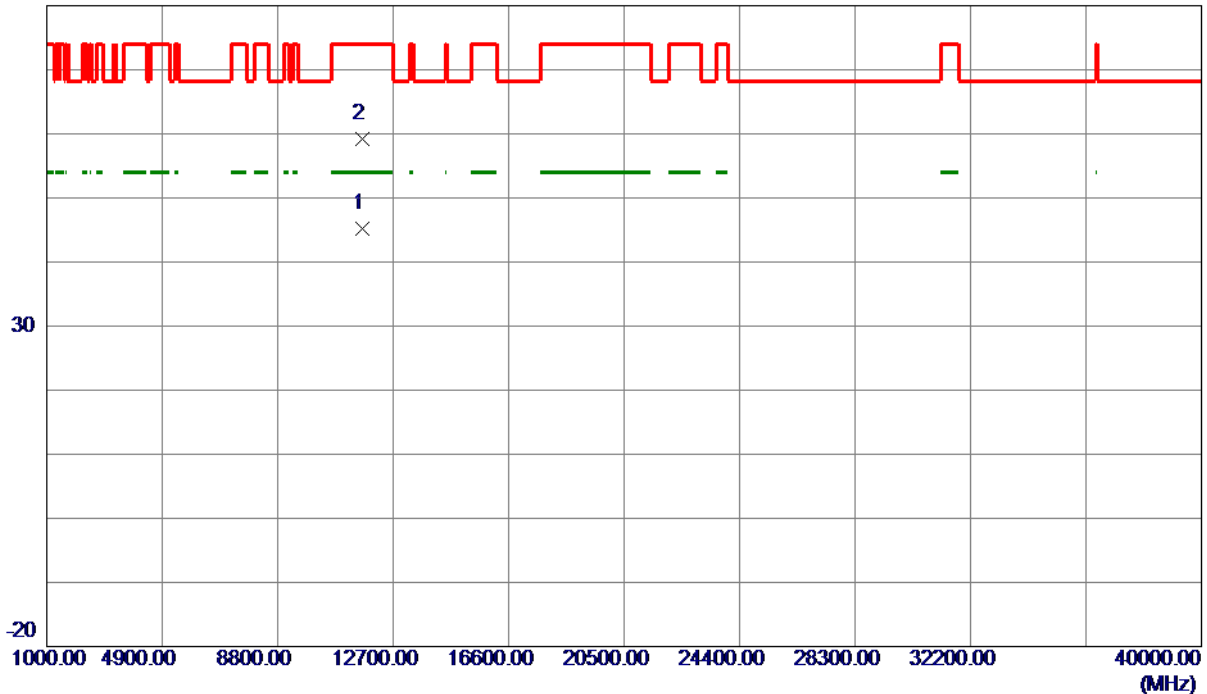
### REMARKS:

- (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 *	11648.4800	27.92	17.23	45.15	54.00	-8.85	AVG	
2	11648.8650	42.02	17.23	59.25	74.00	-14.75	Peak	

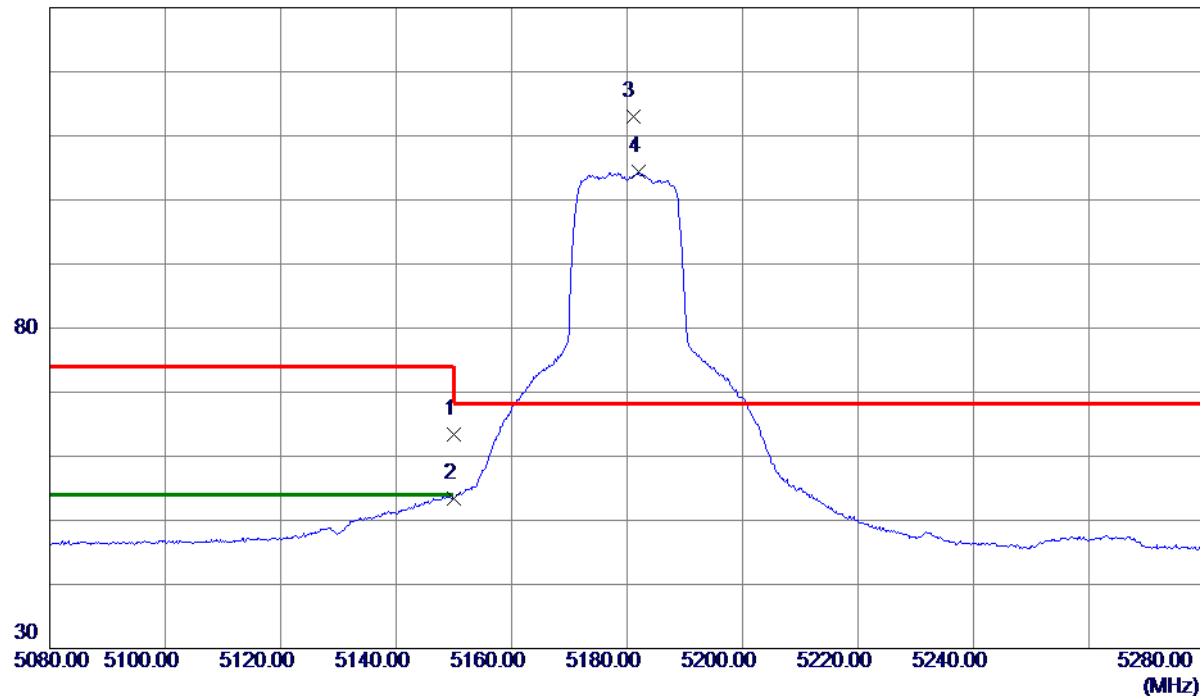
### REMARKS:

- (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



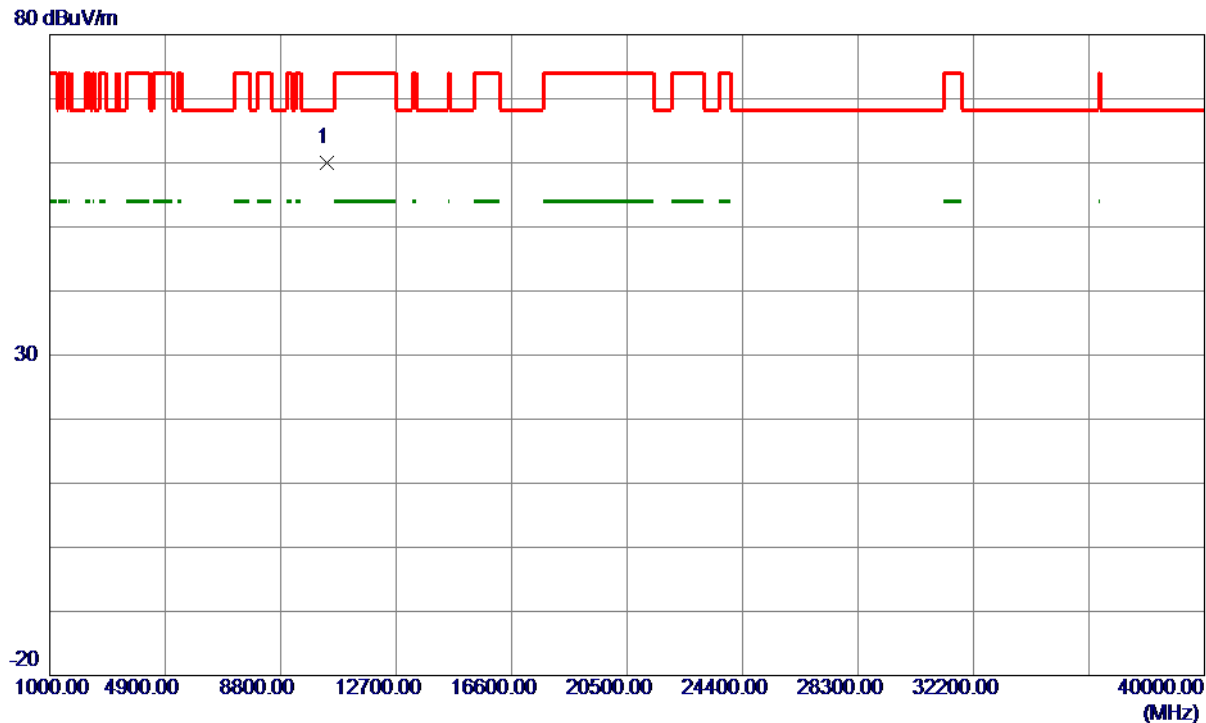
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	46.08	17.26	63.34	74.00	-10.66	Peak	
2	5150.0000	36.20	17.26	53.46	54.00	-0.54	AVG	
3 *	5181.0000	95.72	17.32	113.04	68.30	44.74	Peak	No Limit
4	5181.9000	86.99	17.32	104.31	999.00	-894.69	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 AC (VHT20) Mode 5180 MHz

## Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10356.9500	45.42	14.62	60.04	68.30	-8.26	Peak	

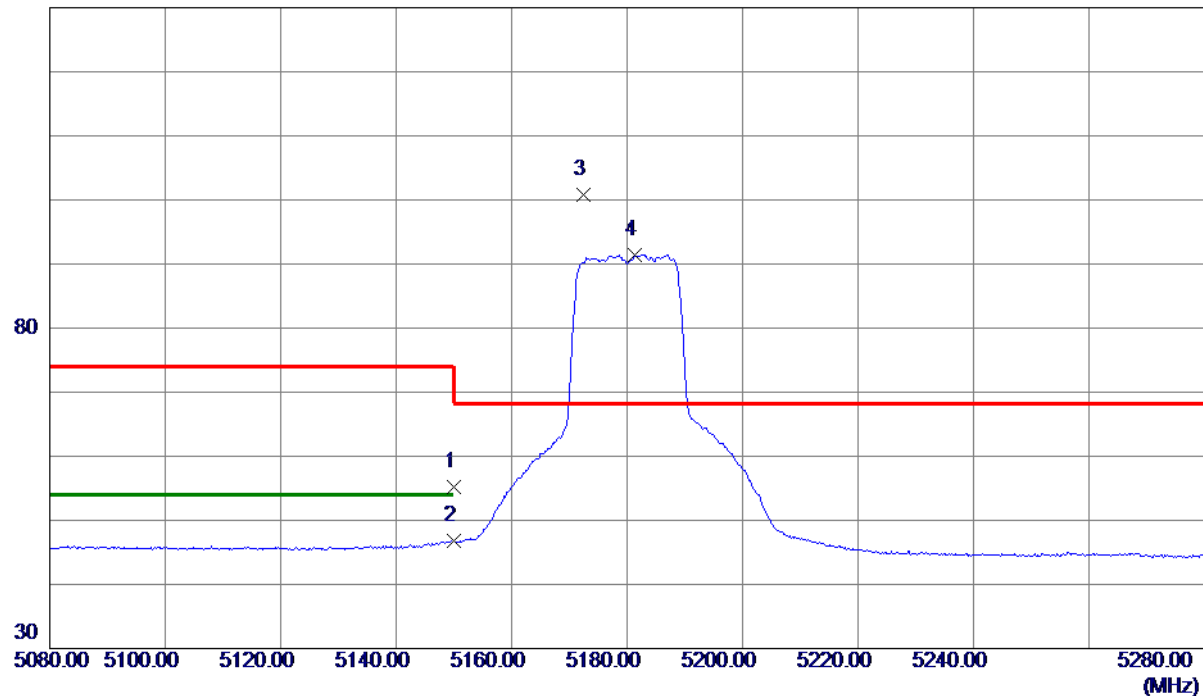
### REMARKS:

- (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	37.97	17.26	55.23	74.00	-18.77	Peak	
2	5150.0000	29.52	17.26	46.78	54.00	-7.22	AVG	
3 *	5172.4000	83.41	17.30	100.71	68.30	32.41	Peak	No Limit
4	5181.4000	74.10	17.32	91.42	999.00	-907.58	AVG	No Limit

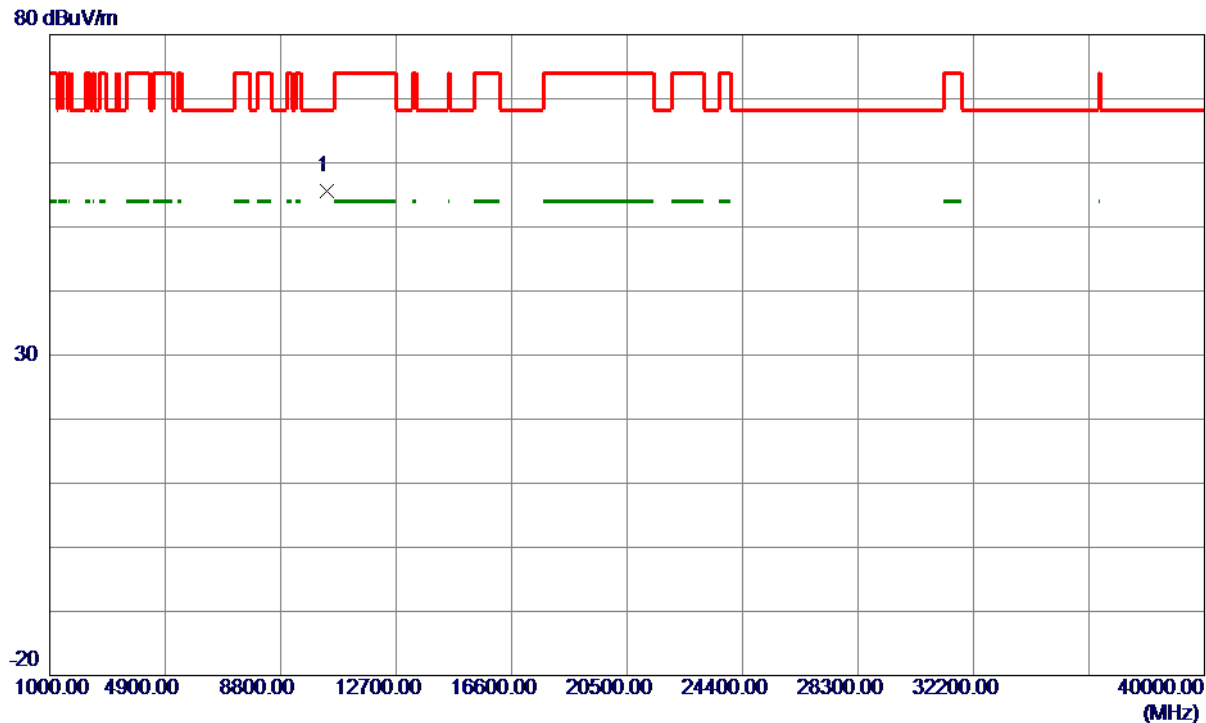
### REMARKS:

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



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

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10361.8600	40.89	14.62	55.51	68.30	-12.79	Peak	

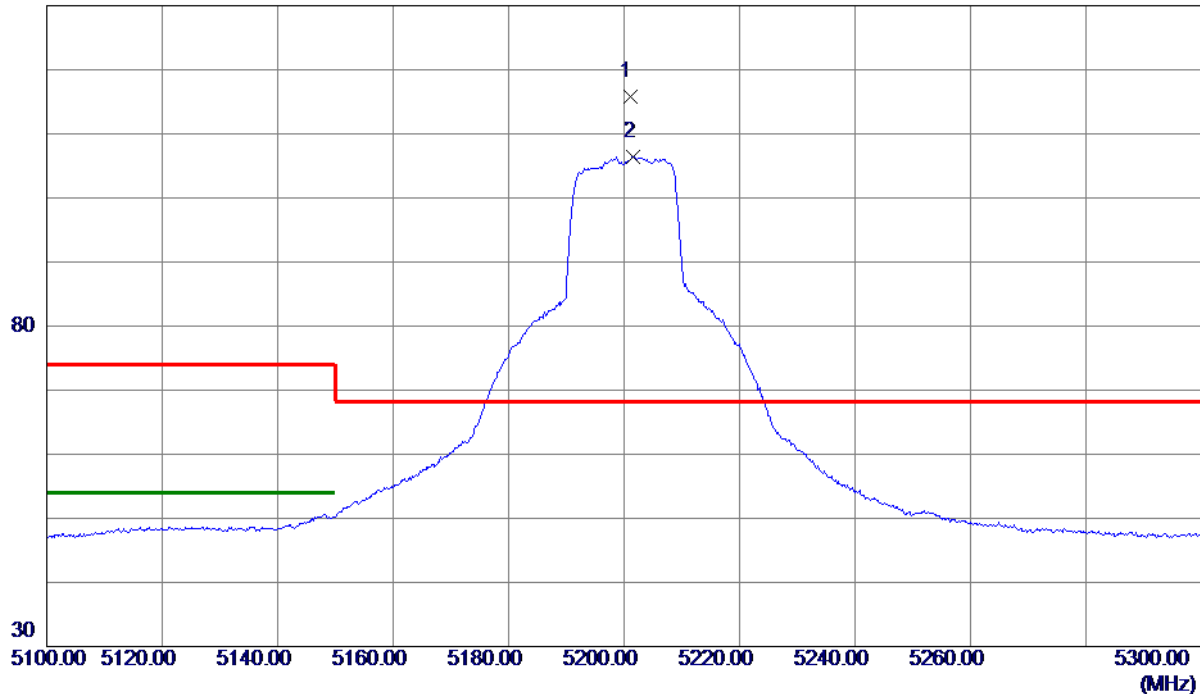
#### REMARKS:

- (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



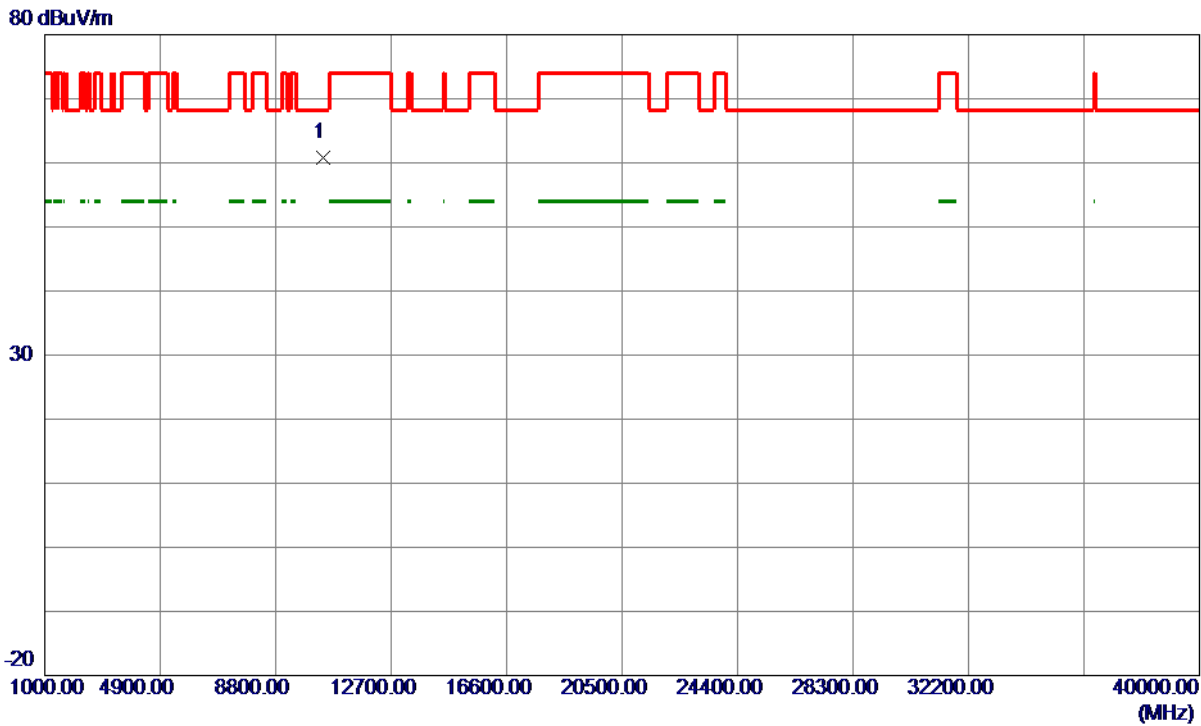
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5201.0000	98.48	17.36	115.84	68.30	47.54	Peak	No Limit
2	5201.6000	89.08	17.36	106.44	999.00	-892.56	AVG	No Limit

### 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

### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10398.8000	46.14	14.69	60.83	68.30	-7.47	Peak	

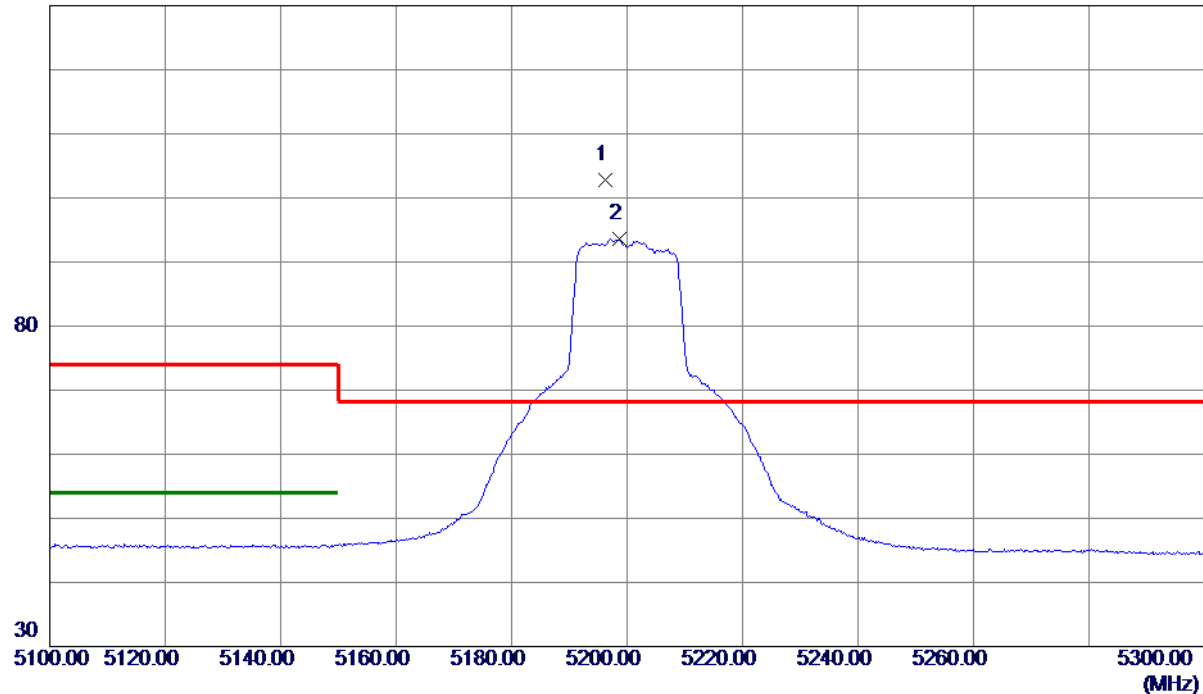
### REMARKS:

- (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



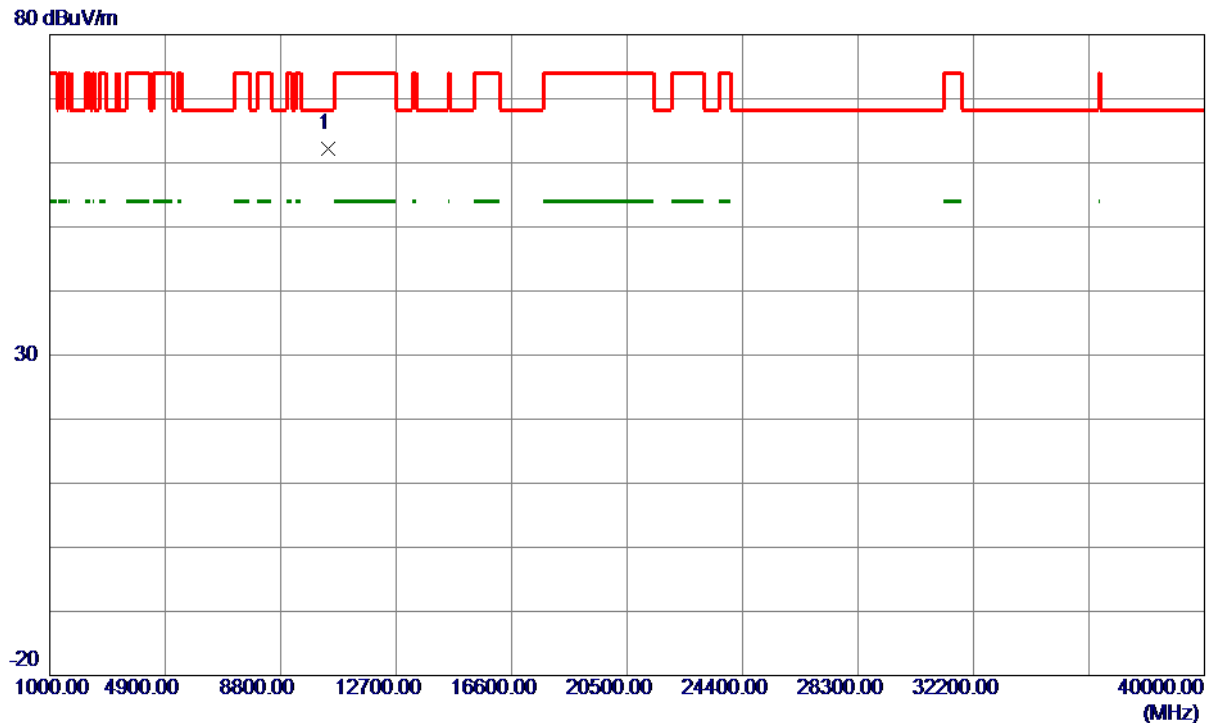
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5196.2000	85.47	17.35	102.82	68.30	34.52	Peak	No Limit
2	5198.6000	76.17	17.36	93.53	999.00	-905.47	AVG	No Limit

### 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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10401.1800	47.57	14.69	62.26	68.30	-6.04	Peak	

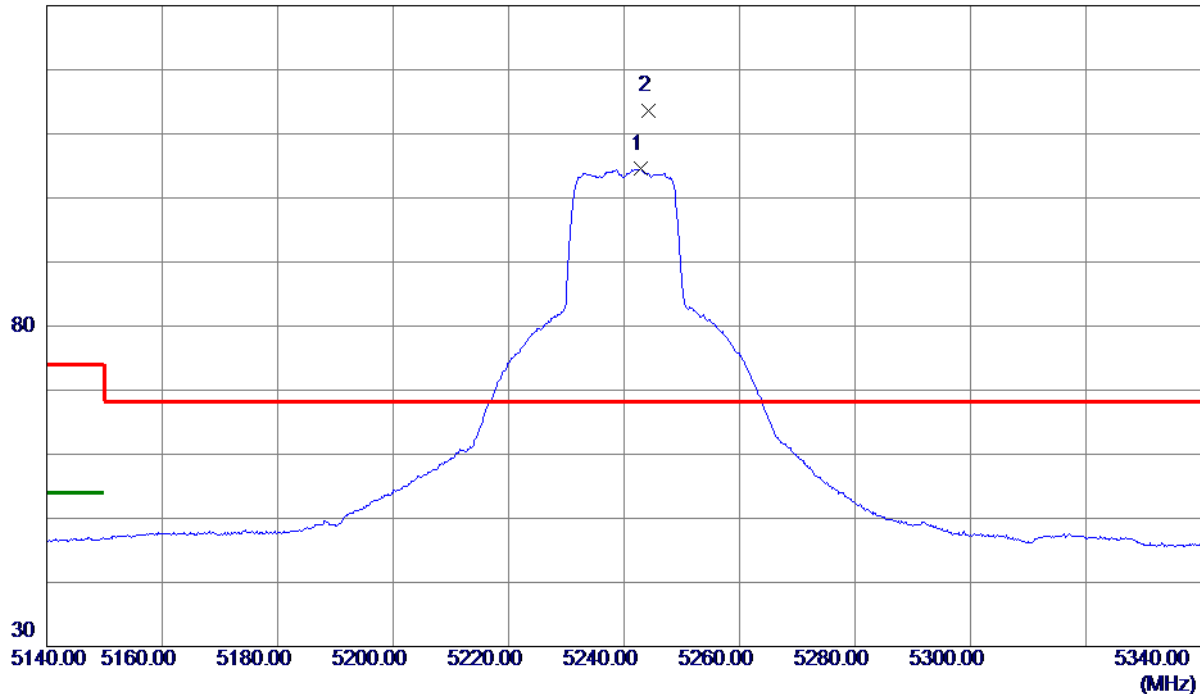
#### REMARKS:

- (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



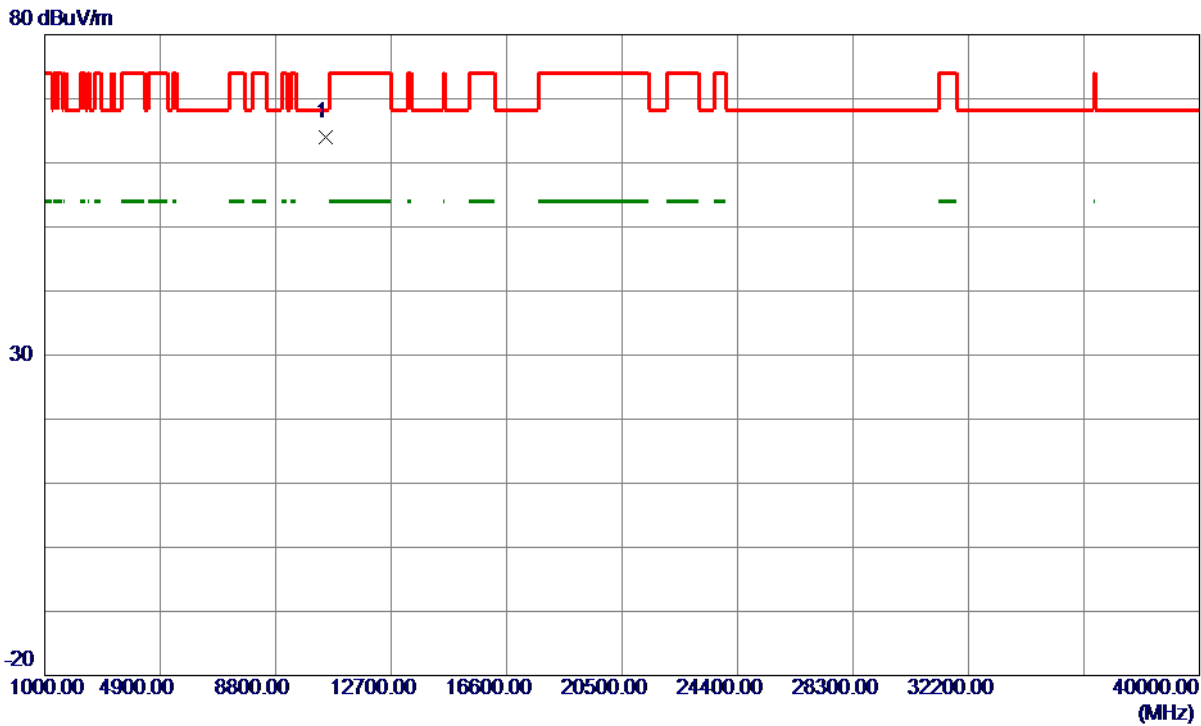
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5242.9000	87.06	17.44	104.50	999.00	-894.50	AVG	No Limit
2 *	5244.3000	96.10	17.45	113.55	68.30	45.25	Peak	No Limit

### REMARKS:

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

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

### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10483.5250	49.20	14.83	64.03	68.30	-4.27	Peak	

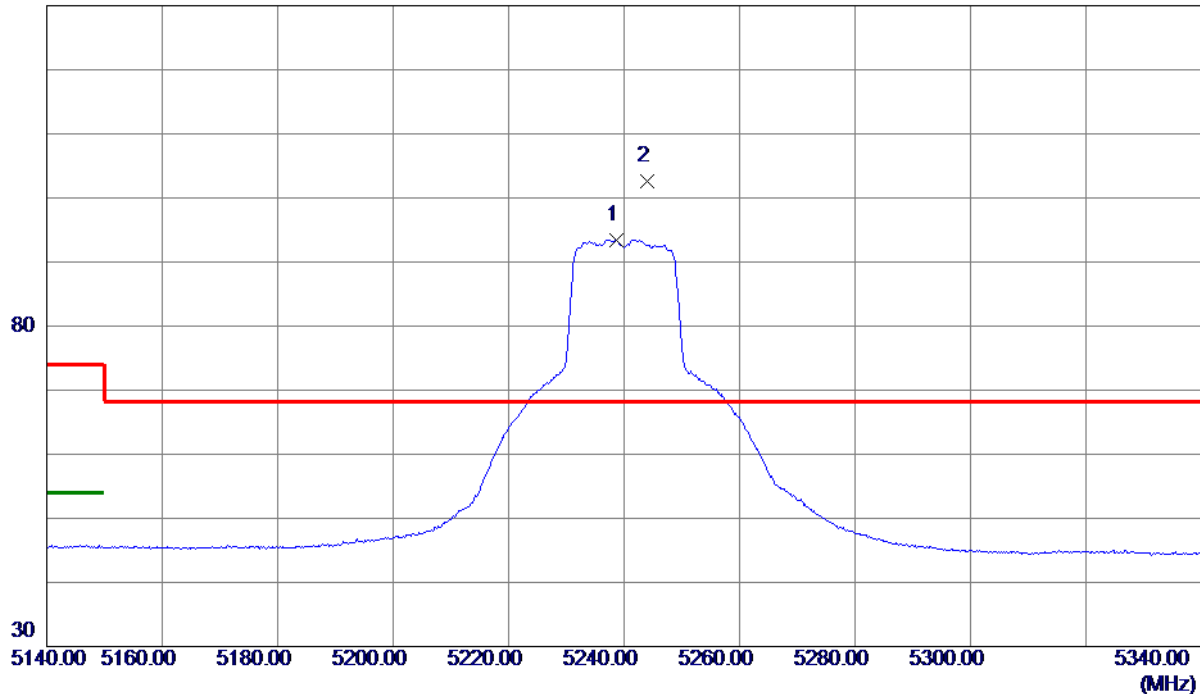
### REMARKS:

- (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	5238.6000	75.99	17.43	93.42	999.00	-905.58	AVG	No Limit
2 *	5244.0000	85.24	17.45	102.69	68.30	34.39	Peak	No Limit

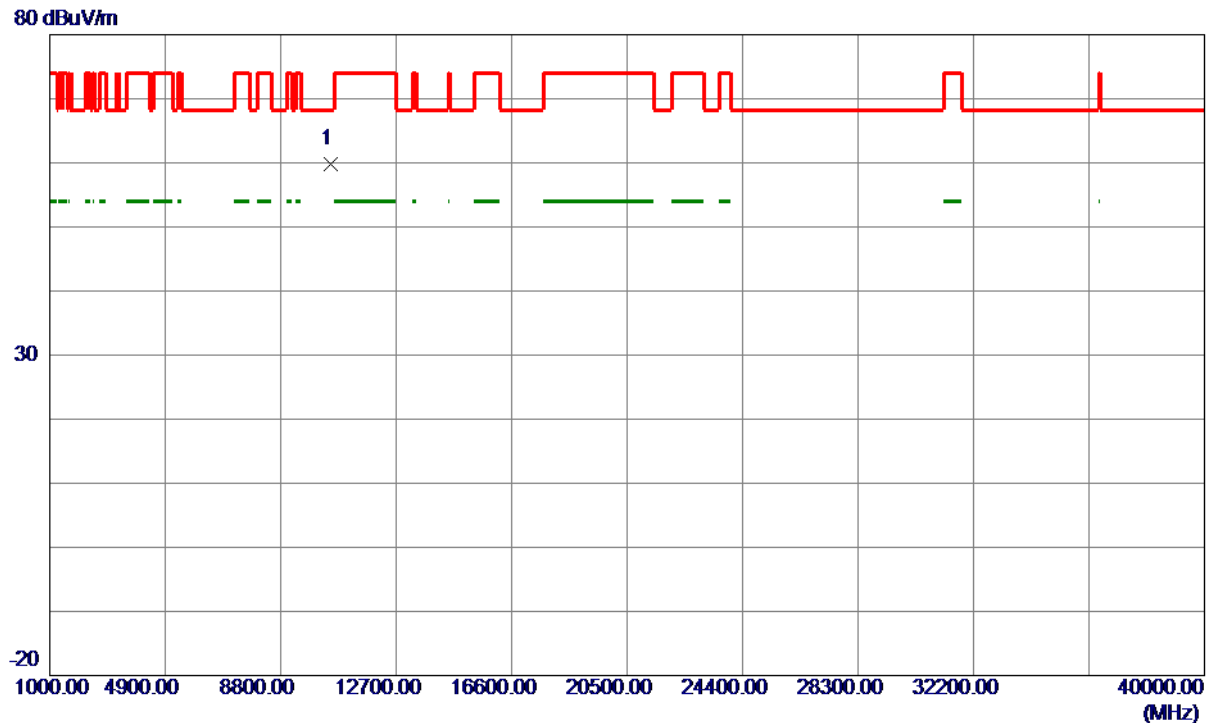
### REMARKS:

- (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

### Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10475.3500	44.98	14.82	59.80	68.30	-8.50	Peak	

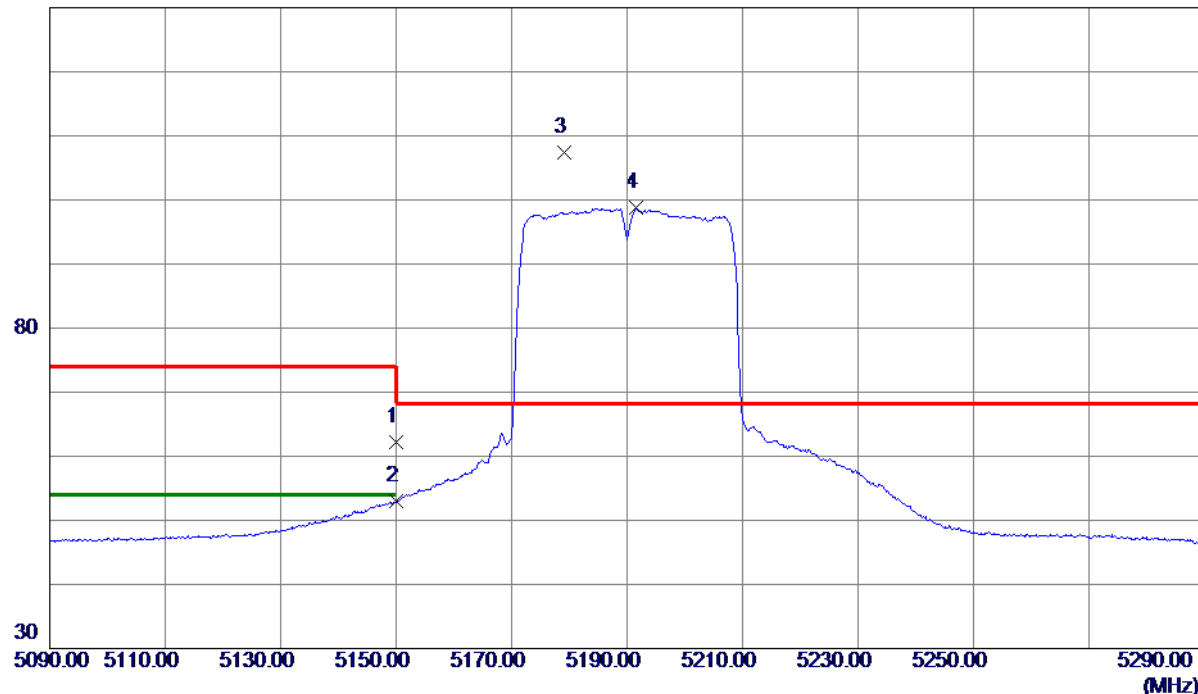
### REMARKS:

- (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



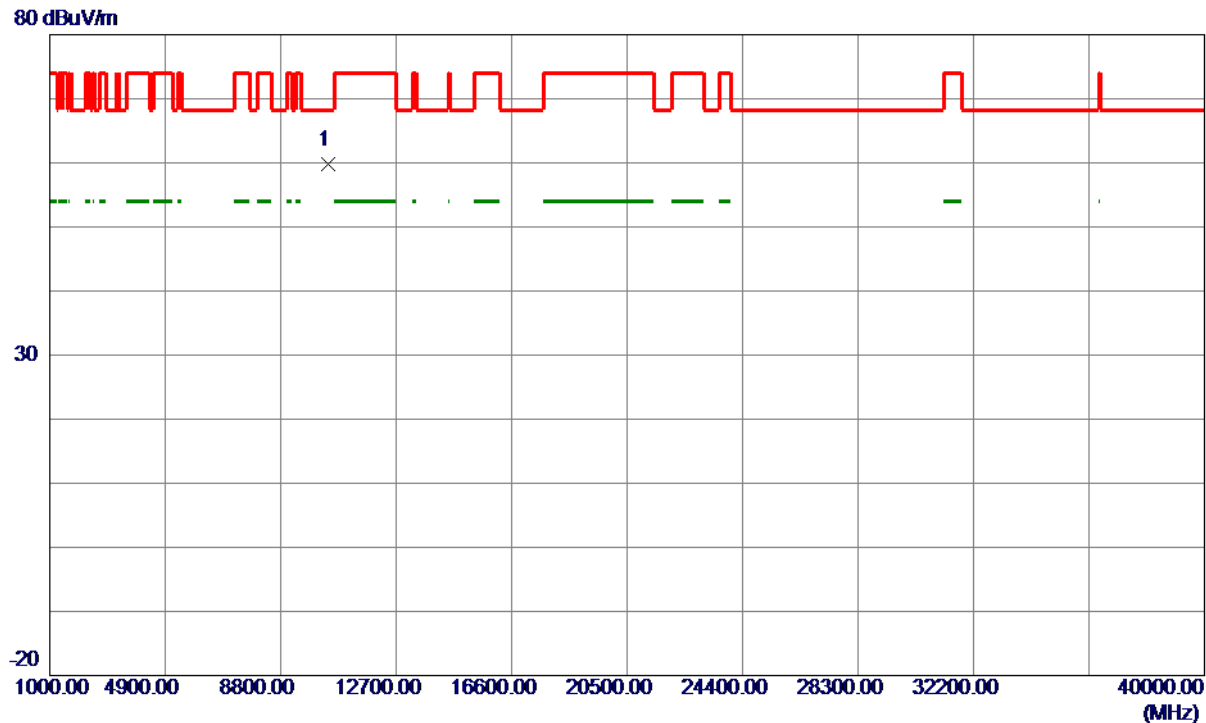
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	44.96	17.26	62.22	74.00	-11.78	Peak	
2	5150.0000	35.66	17.26	52.92	54.00	-1.08	AVG	
3 *	5179.1000	90.15	17.32	107.47	68.30	39.17	Peak	No Limit
4	5191.5000	81.38	17.34	98.72	999.00	-900.28	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 (VHT40) Mode 5190 MHz

### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10385.8250	45.03	14.67	59.70	68.30	-8.60	Peak	

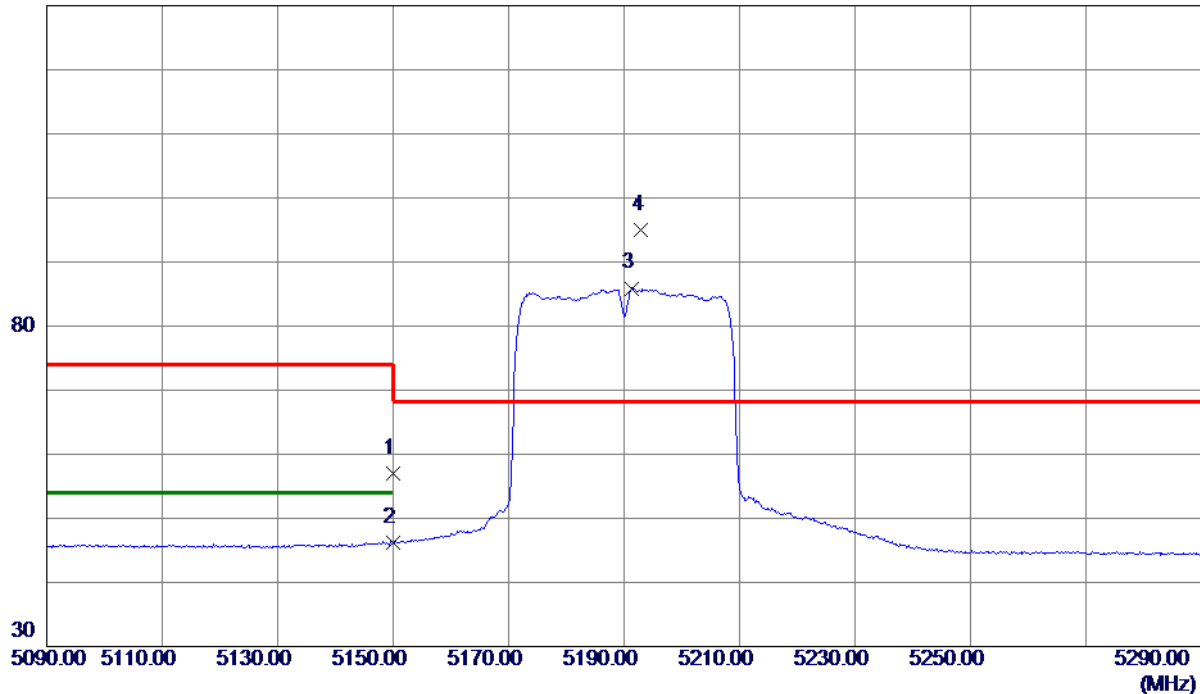
### REMARKS:

- (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



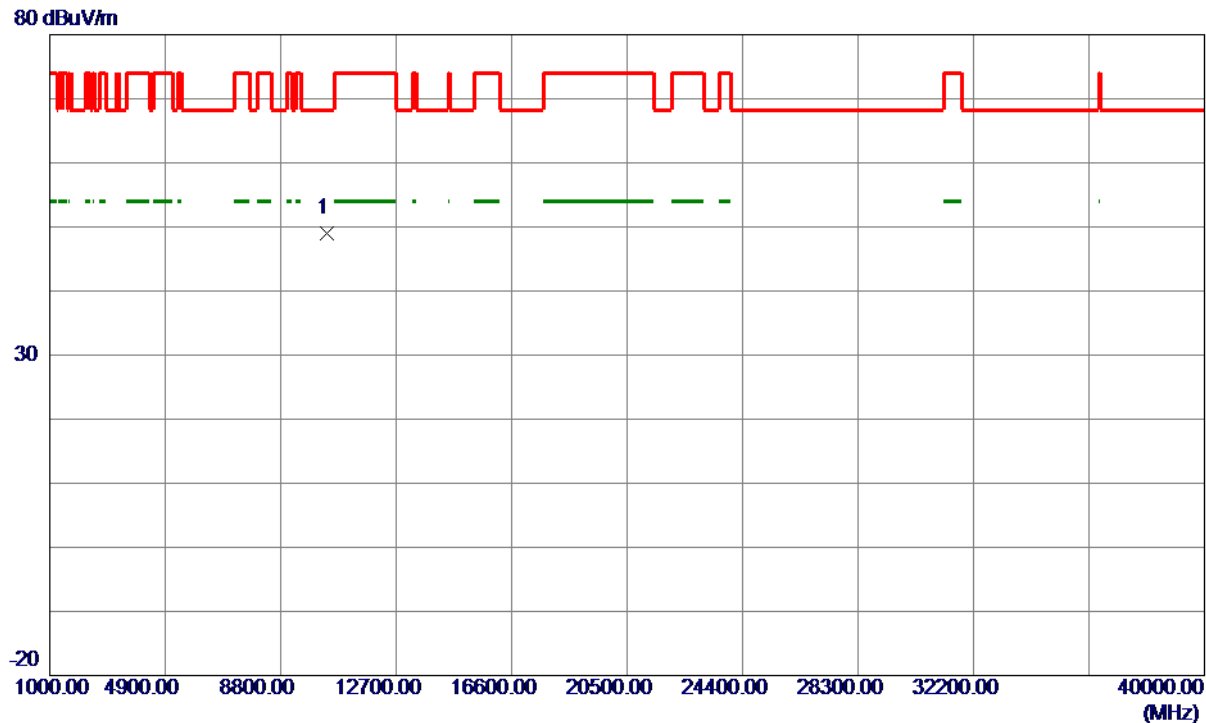
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	39.83	17.26	57.09	74.00	-16.91	Peak	
2	5150.0000	28.94	17.26	46.20	54.00	-7.80	AVG	
3	5191.4000	68.56	17.34	85.90	999.00	-913.10	AVG	No Limit
4 *	5193.0000	77.72	17.34	95.06	68.30	26.76	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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10376.3900	34.38	14.65	49.03	68.30	-19.27	Peak	

REMARKS:

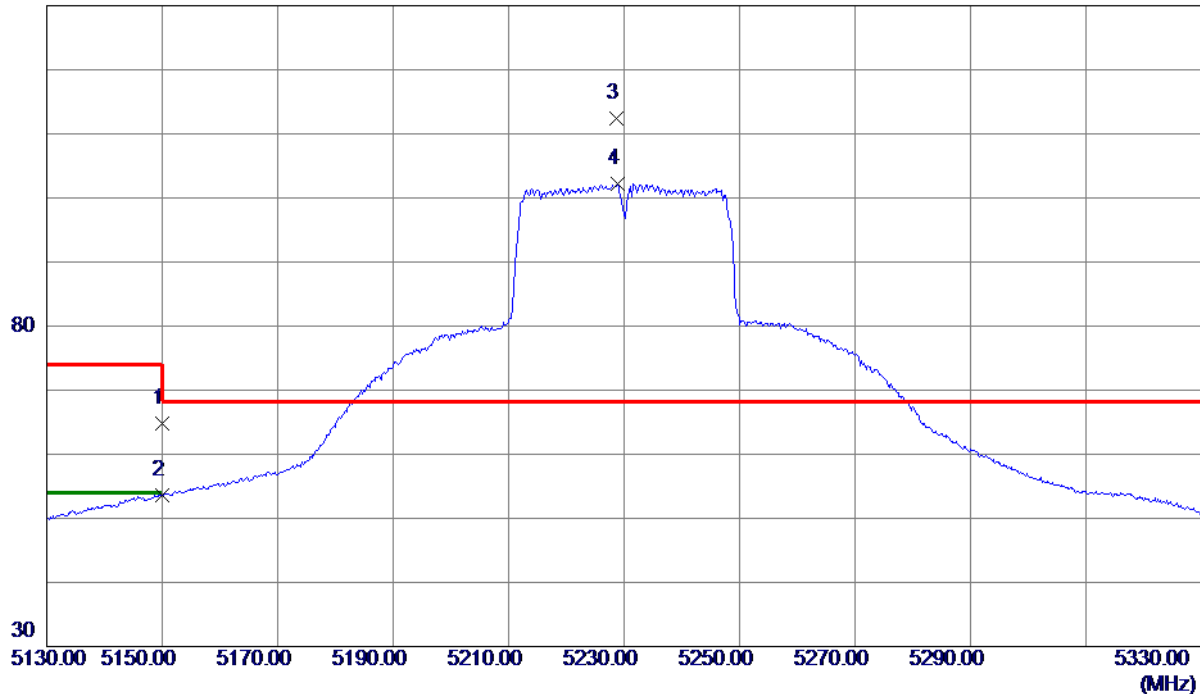
(1) Measurement Value = Reading Level + Correct Factor.

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

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

## Vertical

130 dBuV/m



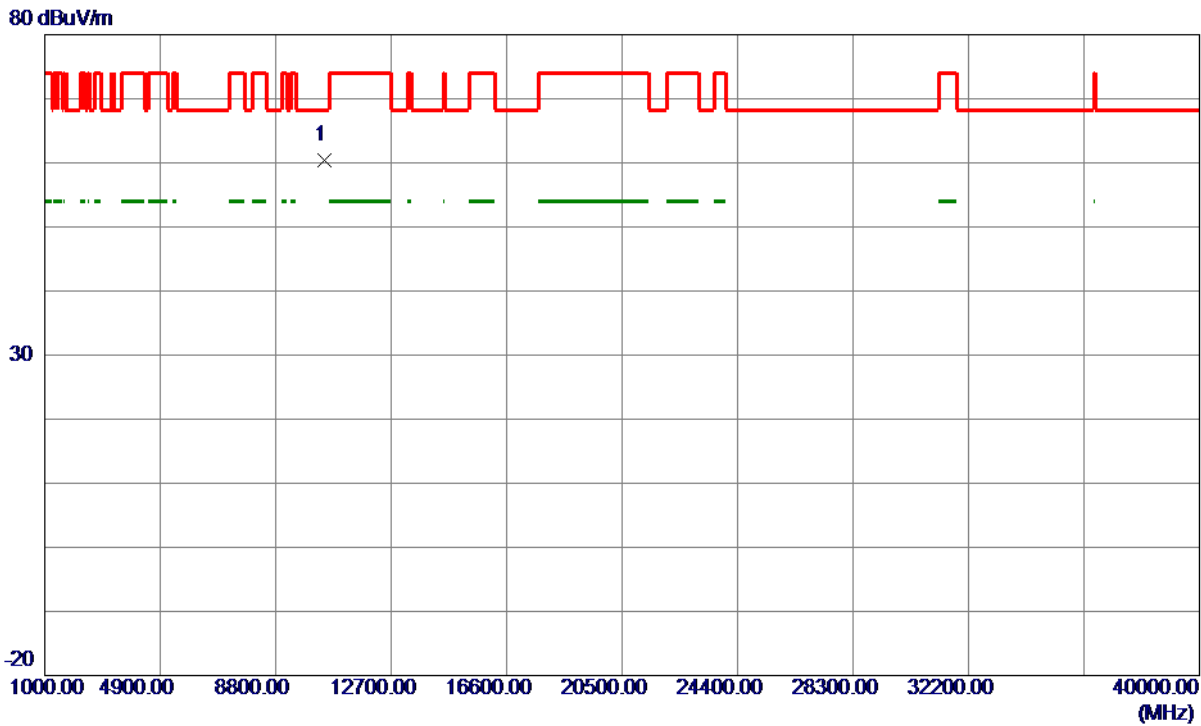
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	47.61	17.26	64.87	74.00	-9.13	Peak	
2	5150.0000	36.39	17.26	53.65	54.00	-0.35	AVG	
3 *	5228.6000	95.01	17.41	112.42	68.30	44.12	Peak	No Limit
4	5228.9000	84.73	17.42	102.15	999.00	-896.85	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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10464.2100	45.55	14.80	60.35	68.30	-7.95	Peak	

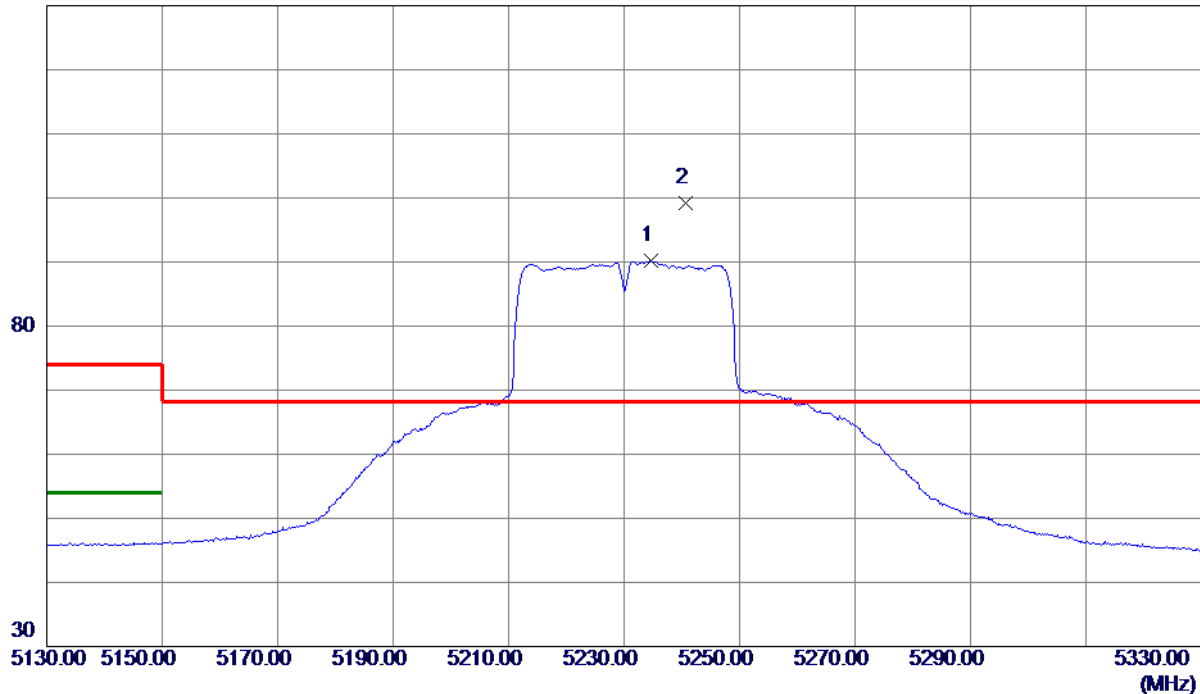
### REMARKS:

- (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	5234.6000	72.76	17.43	90.19	999.00	-908.81	AVG	No Limit
2 *	5240.6000	81.81	17.44	99.25	68.30	30.95	Peak	No Limit

### REMARKS:

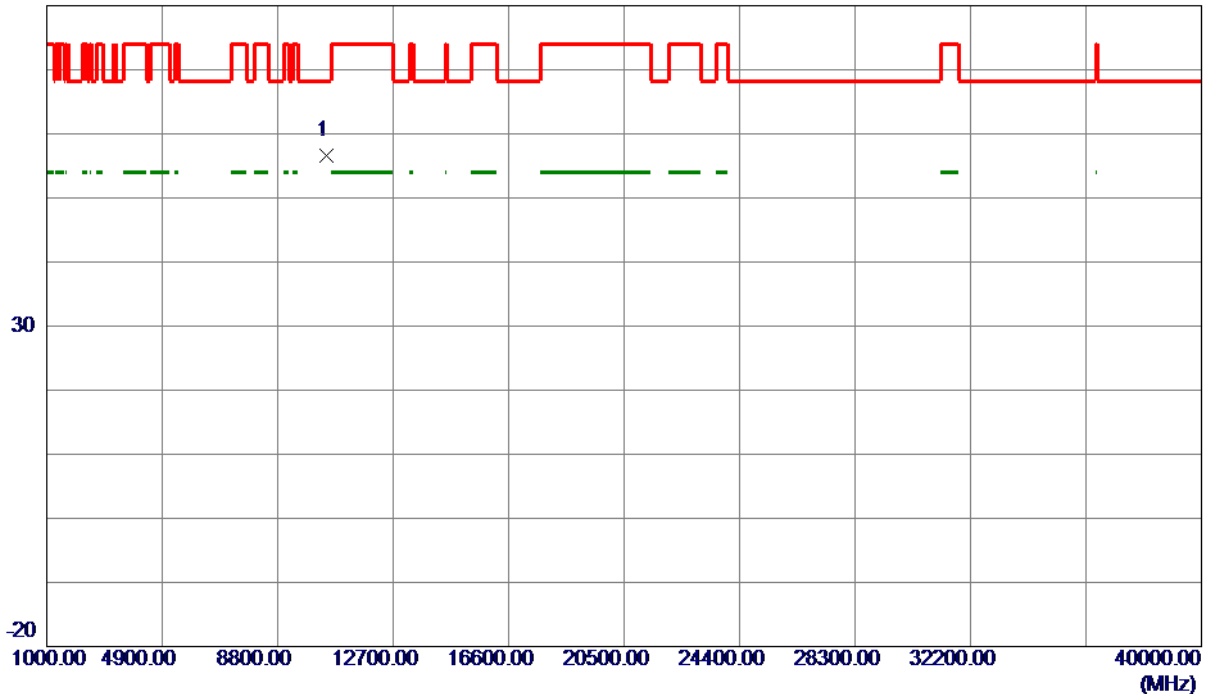
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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 *	10456.2400	41.82	14.79	56.61	68.30	-11.69	Peak	

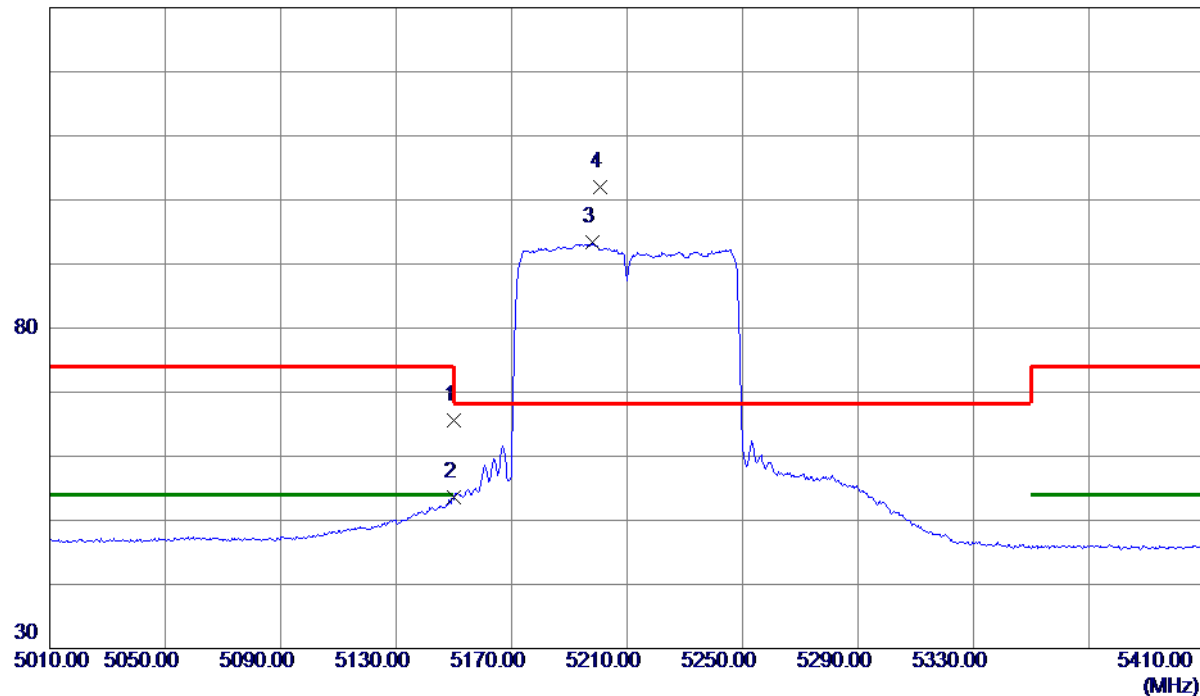
### REMARKS:

- (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



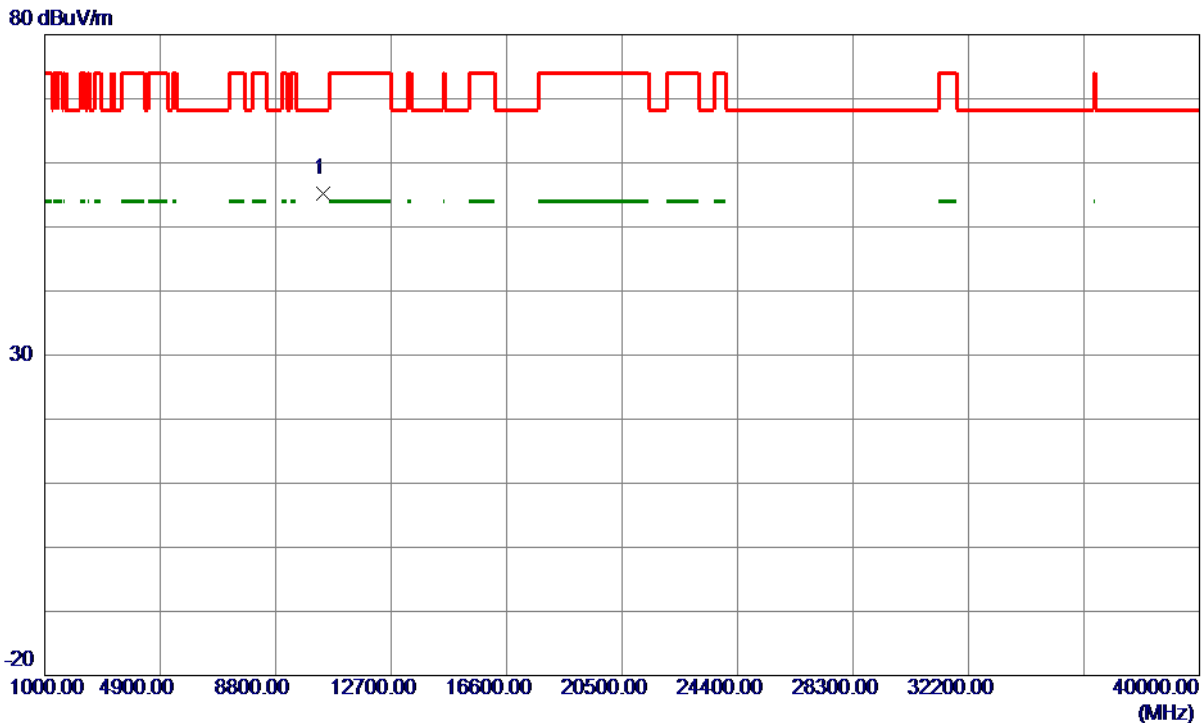
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	48.32	17.26	65.58	74.00	-8.42	Peak	
2	5150.0000	36.39	17.26	53.65	54.00	-0.35	AVG	
3	5197.8000	75.99	17.35	93.34	999.00	-905.66	AVG	No Limit
4 *	5200.8000	84.65	17.36	102.01	68.30	33.71	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

### Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10410.1200	40.47	14.71	55.18	68.30	-13.12	Peak	

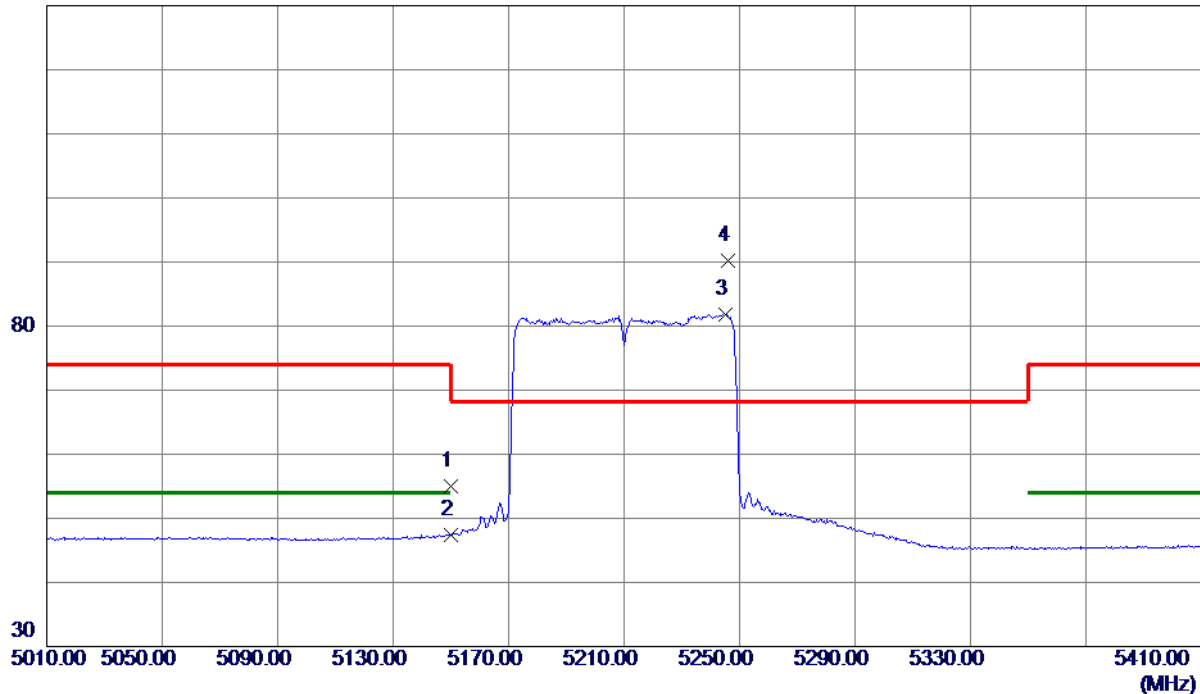
### REMARKS:

- (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	37.73	17.26	54.99	74.00	-19.01	Peak	
2	5150.0000	30.16	17.26	47.42	54.00	-6.58	AVG	
3	5245.2000	64.35	17.45	81.80	999.00	-917.20	AVG	No Limit
4 *	5246.0000	72.66	17.45	90.11	68.30	21.81	Peak	No Limit

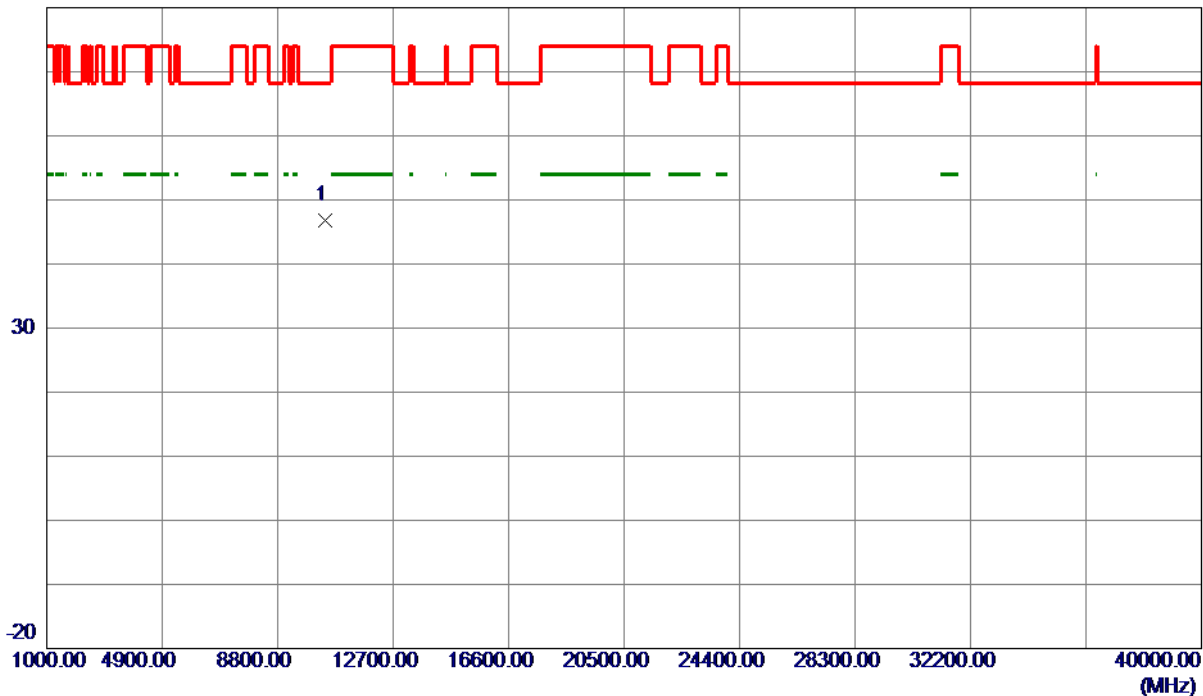
### REMARKS:

- (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



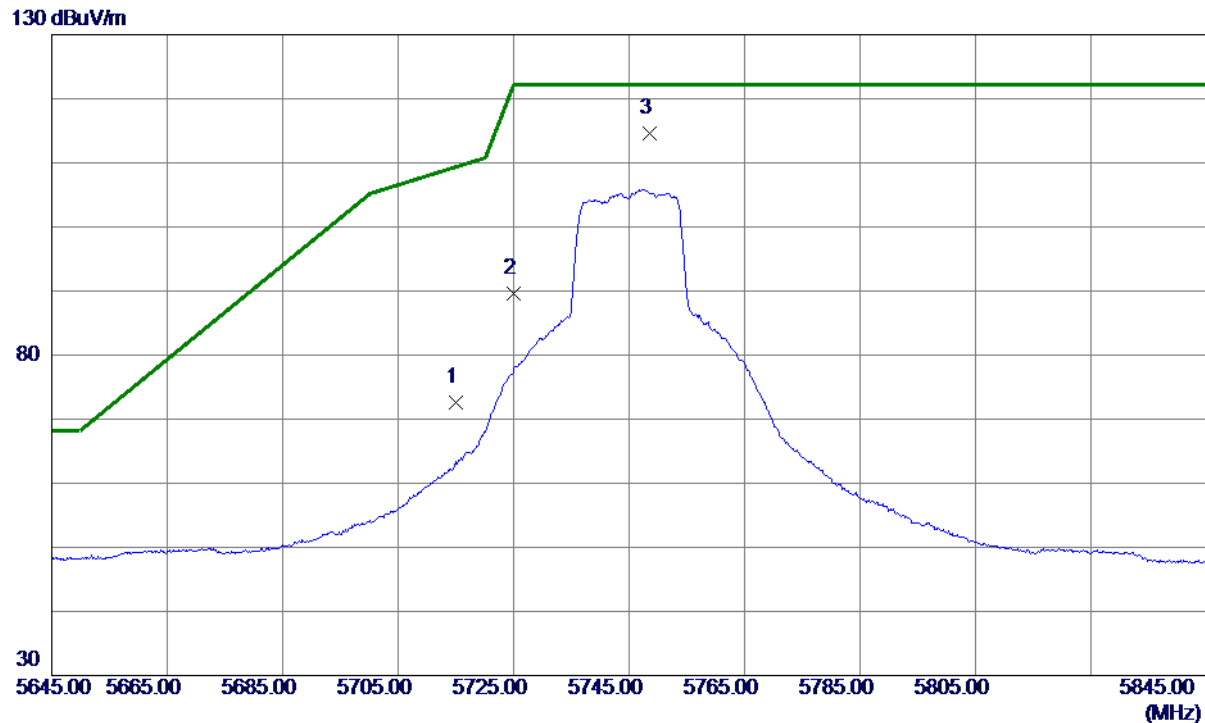
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10421.2100	32.10	14.73	46.83	68.30	-21.47	Peak	

### 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

## Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	53.92	18.65	72.57	109.40	-36.83	Peak	
2	5725.0000	70.94	18.69	89.63	122.20	-32.57	Peak	
3 *	5748.5000	95.90	18.76	114.66	122.20	-7.54	Peak	No Limit

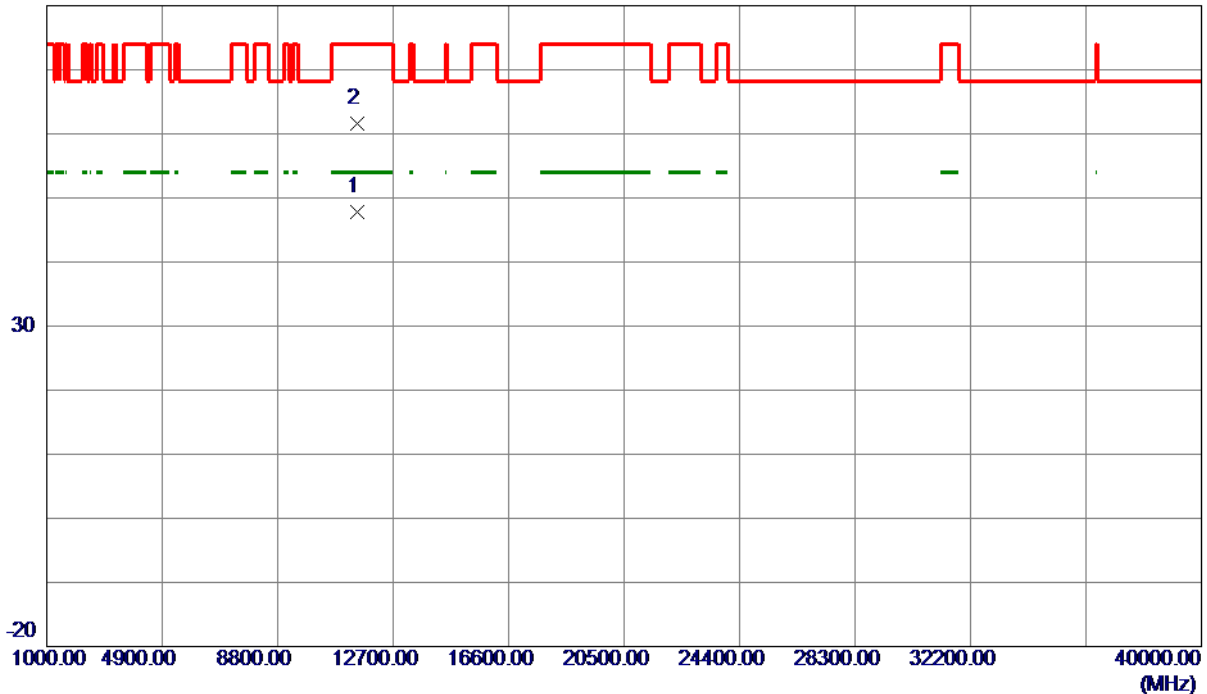
### REMARKS:

- (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 *	11490.0880	30.64	17.16	47.80	54.00	-6.20	AVG	
2	11490.4340	44.44	17.16	61.60	74.00	-12.40	Peak	

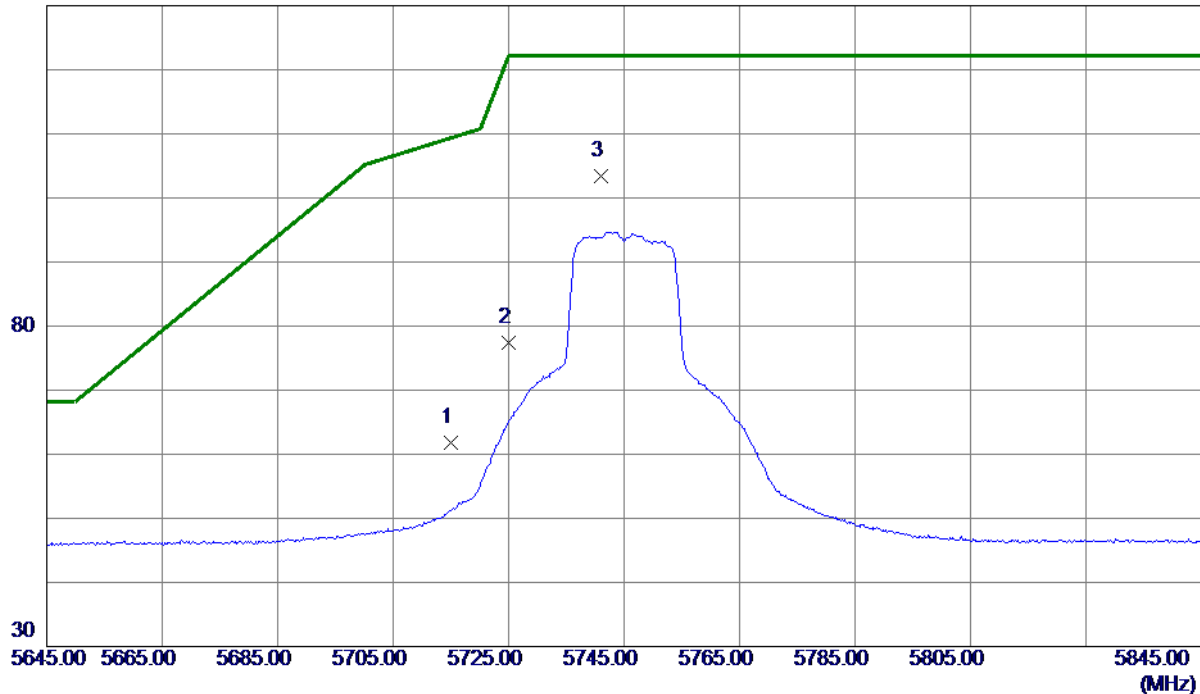
### REMARKS:

- (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

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	5715.0000	43.09	18.65	61.74	109.40	-47.66	Peak	
2	5725.0000	58.62	18.69	77.31	122.20	-44.89	Peak	
3 *	5741.0000	84.62	18.74	103.36	122.20	-18.84	Peak	No Limit

### REMARKS:

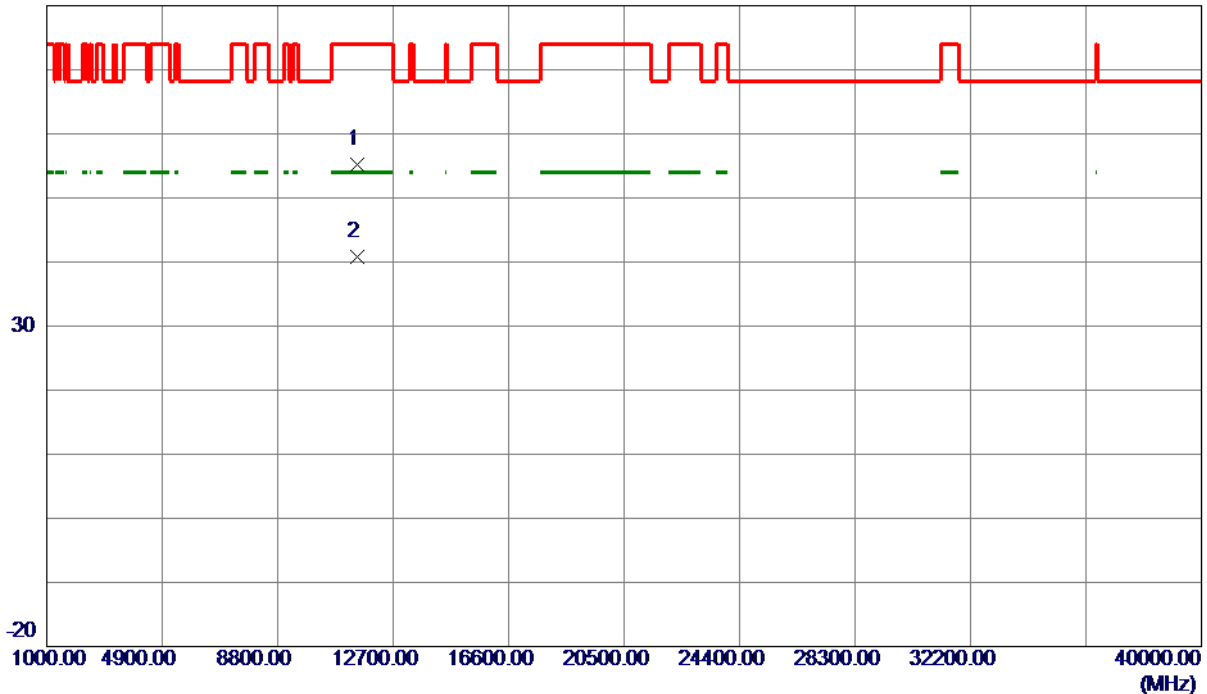
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



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

## Horizontal

80 dBuV/m



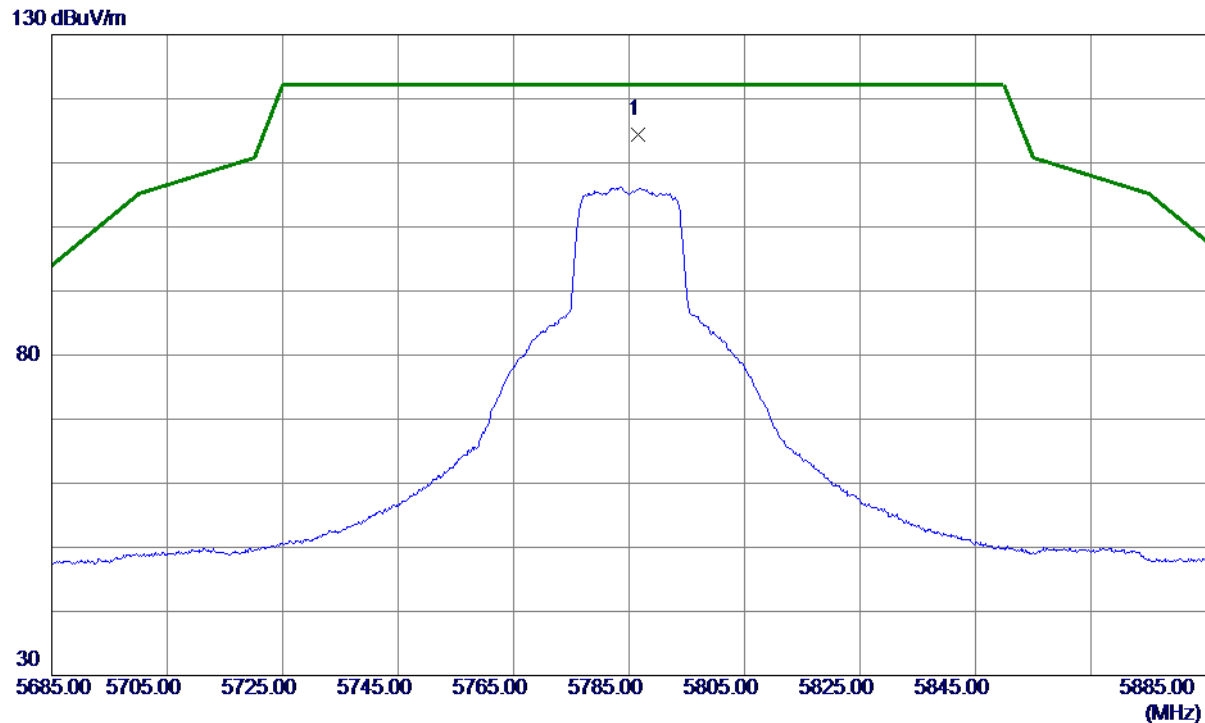
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11488.2150	37.96	17.15	55.11	74.00	-18.89	Peak	
2 *	11491.9100	23.60	17.16	40.76	54.00	-13.24	AVG	

### 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

## Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5786.6000	95.44	18.89	114.33	122.20	-7.87	Peak	No Limit

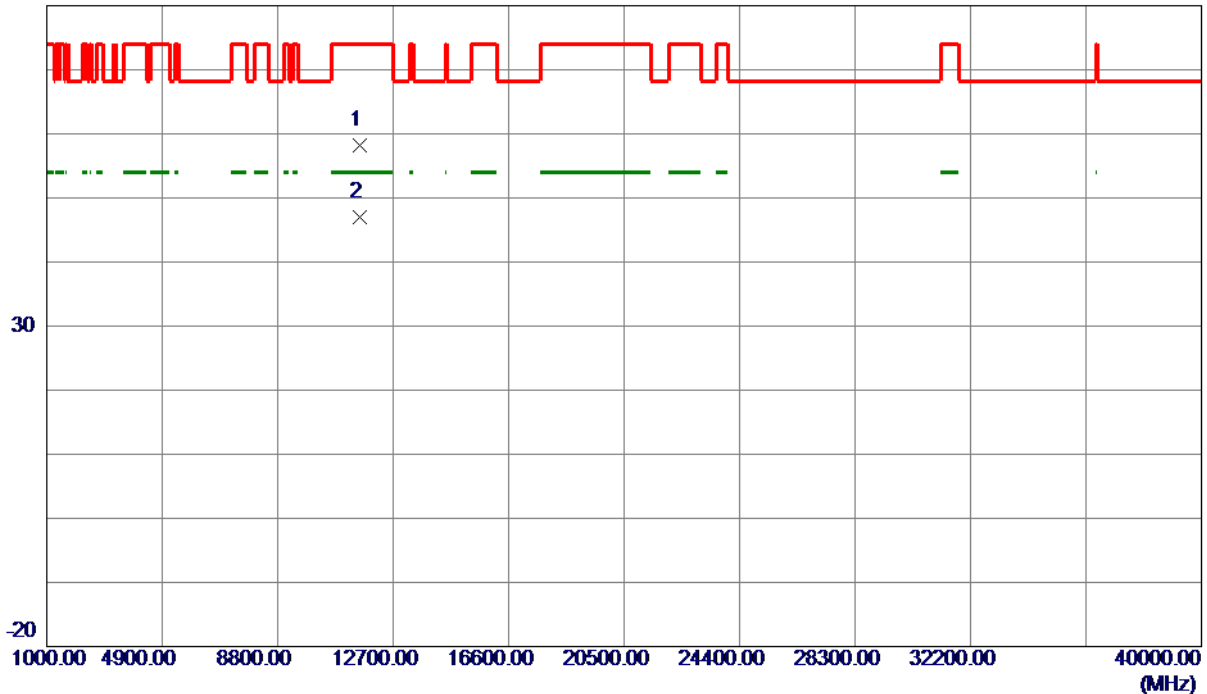
### REMARKS:

- (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



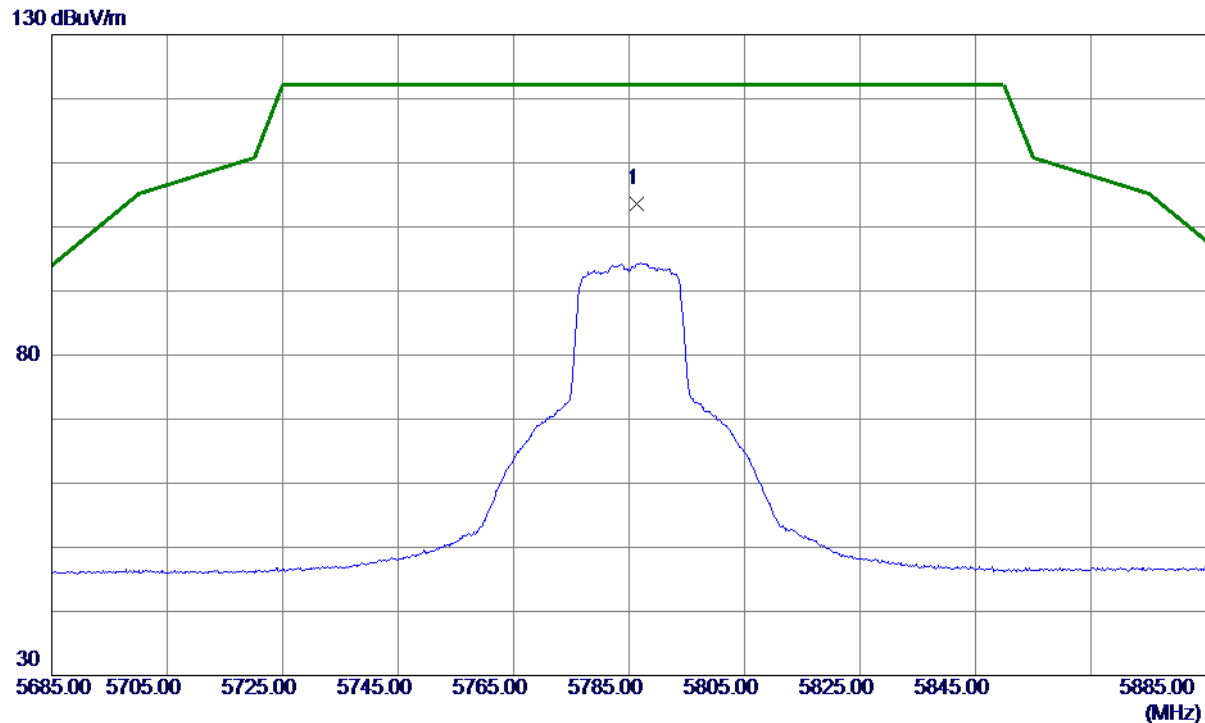
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11570.2370	40.91	17.20	58.11	74.00	-15.89	Peak	
2 *	11570.4420	29.82	17.20	47.02	54.00	-6.98	AVG	

### 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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5786.4000	84.80	18.89	103.69	122.20	-18.51	Peak	No Limit

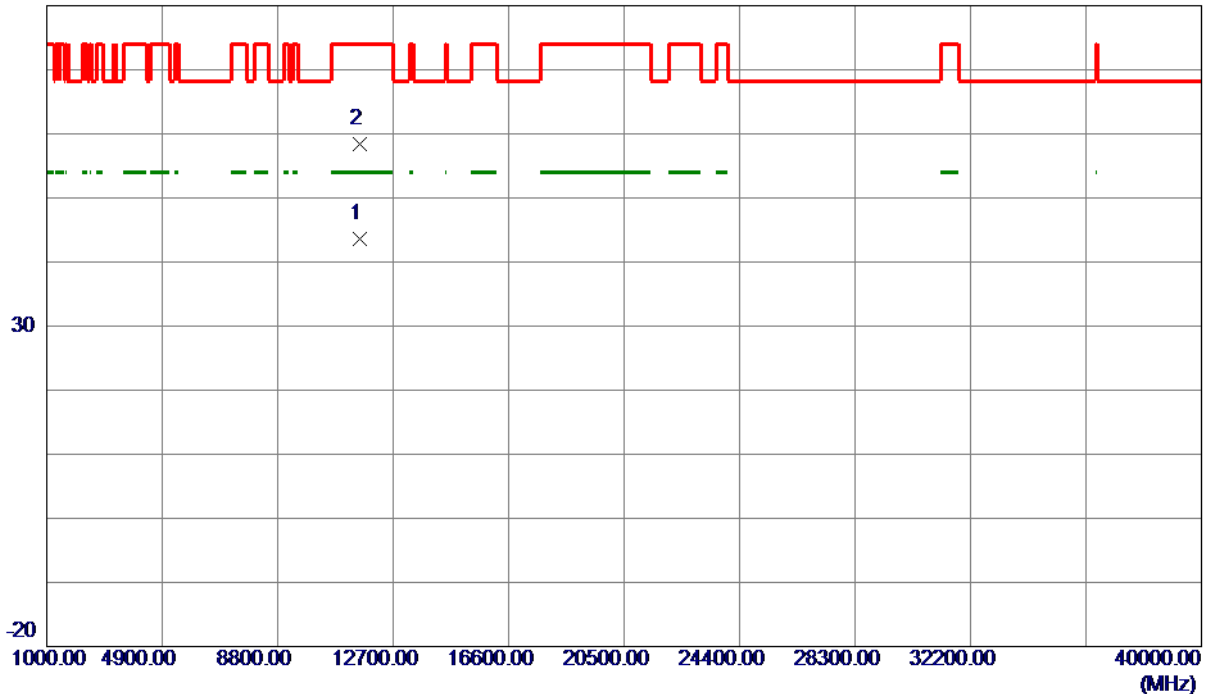
### REMARKS:

- (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



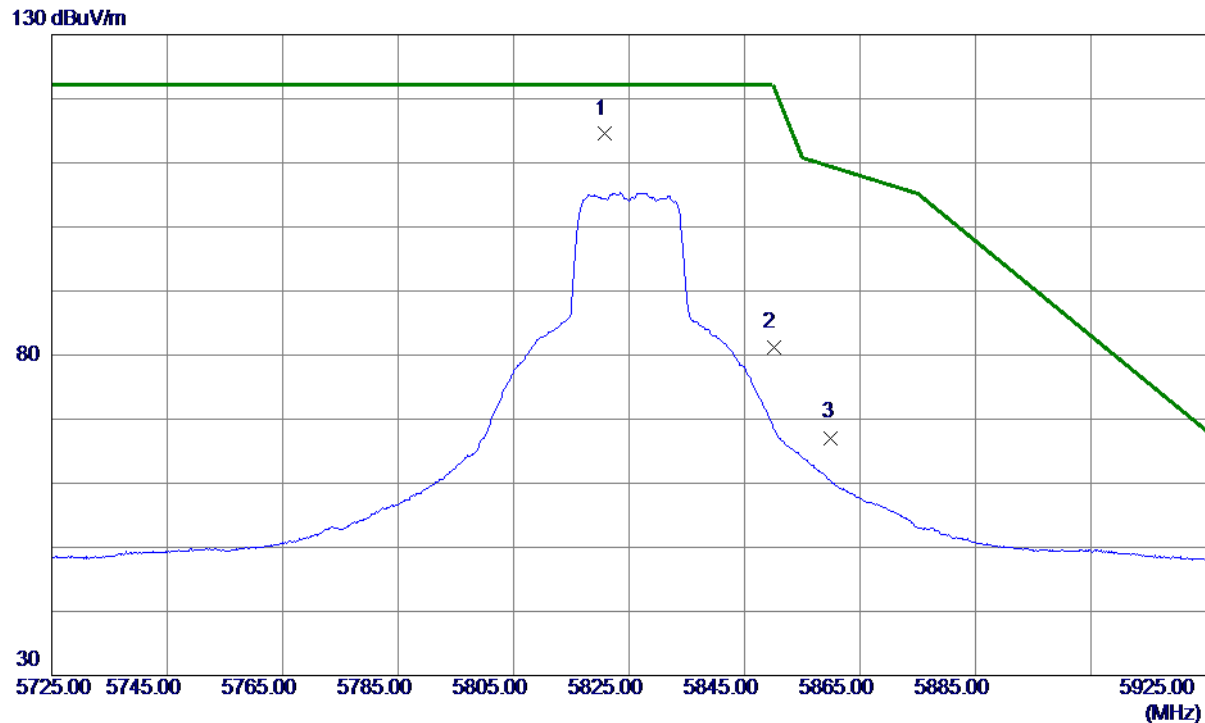
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11569.5800	26.35	17.20	43.55	54.00	-10.45	AVG	
2	11571.1100	41.14	17.20	58.34	74.00	-15.66	Peak	

### 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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5820.8000	95.50	19.00	114.50	122.20	-7.70	Peak	No Limit
2	5850.0000	62.12	19.09	81.21	122.20	-40.99	Peak	
3	5860.0000	47.97	19.13	67.10	109.40	-42.30	Peak	

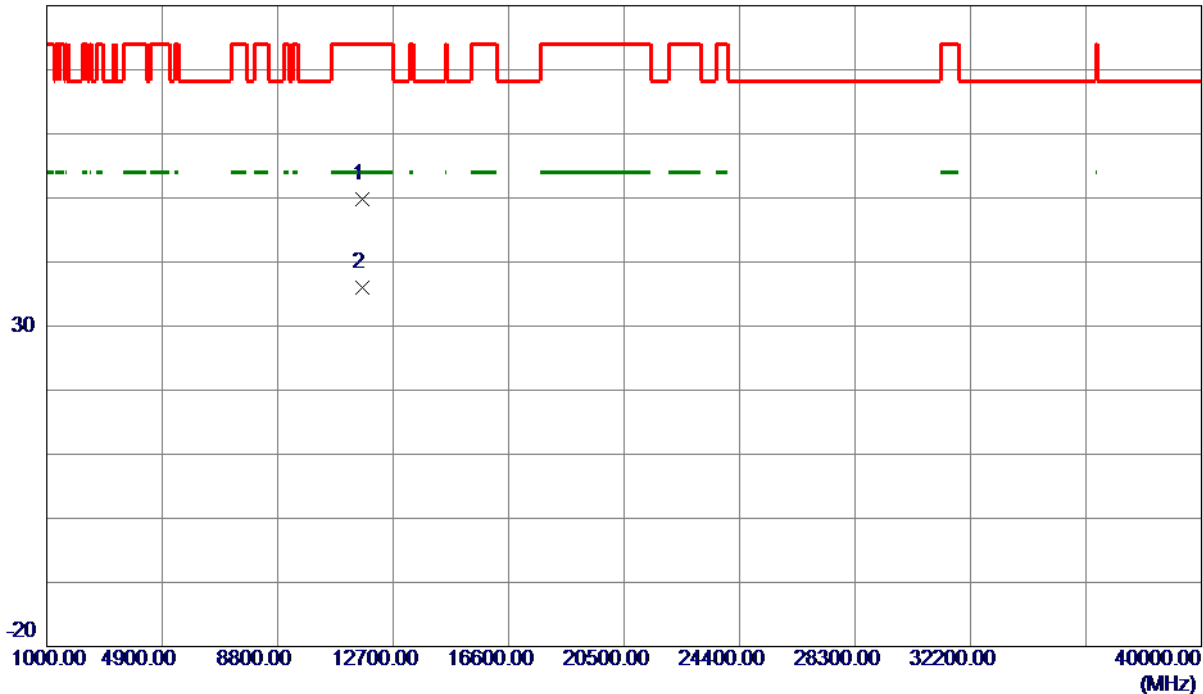
### REMARKS:

- (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	11649.7200	32.51	17.23	49.74	74.00	-24.26	Peak	
2 *	11649.7610	18.81	17.23	36.04	54.00	-17.96	AVG	

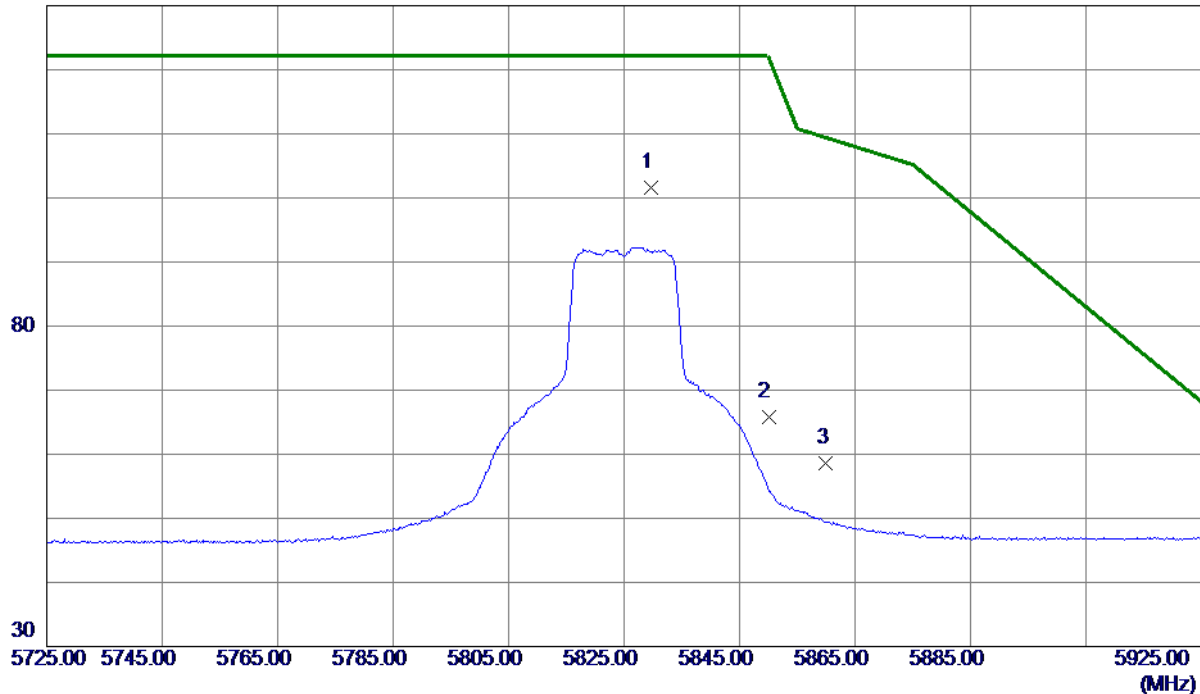
### REMARKS:

- (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

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 *	5829.6000	82.55	19.03	101.58	122.20	-20.62	Peak	No Limit
2	5850.0000	46.72	19.09	65.81	122.20	-56.39	Peak	
3	5860.0000	39.50	19.13	58.63	109.40	-50.77	Peak	

### REMARKS:

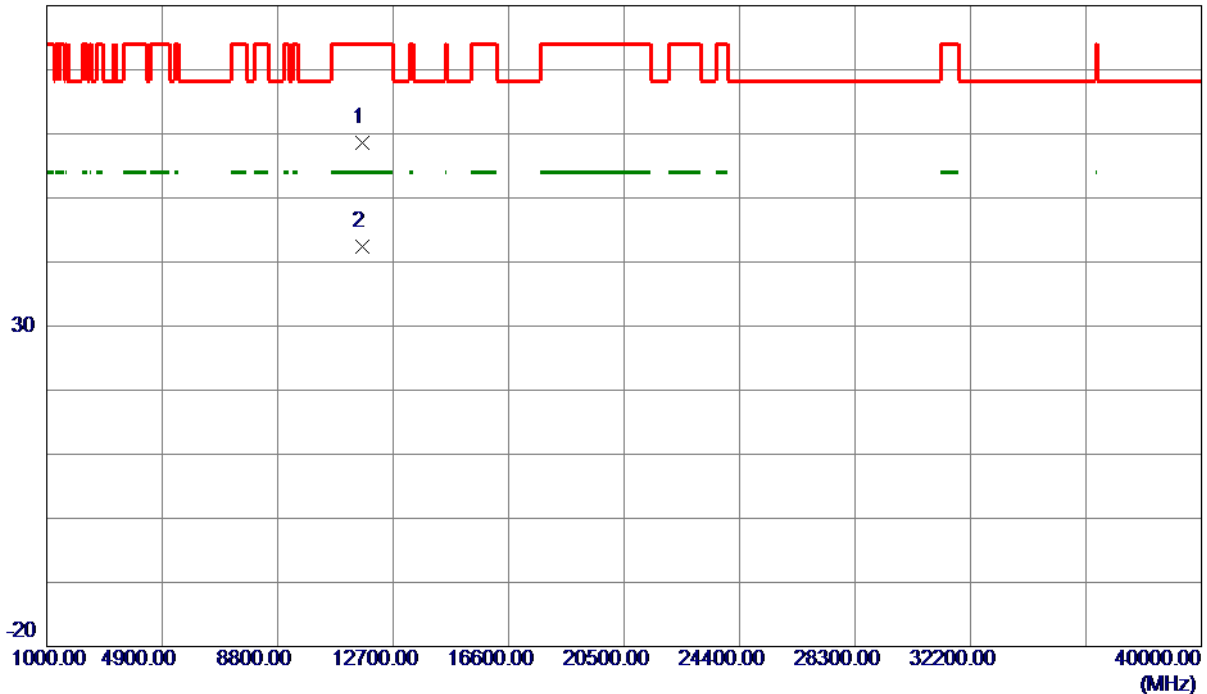
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.



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

## Horizontal

80 dBuV/m



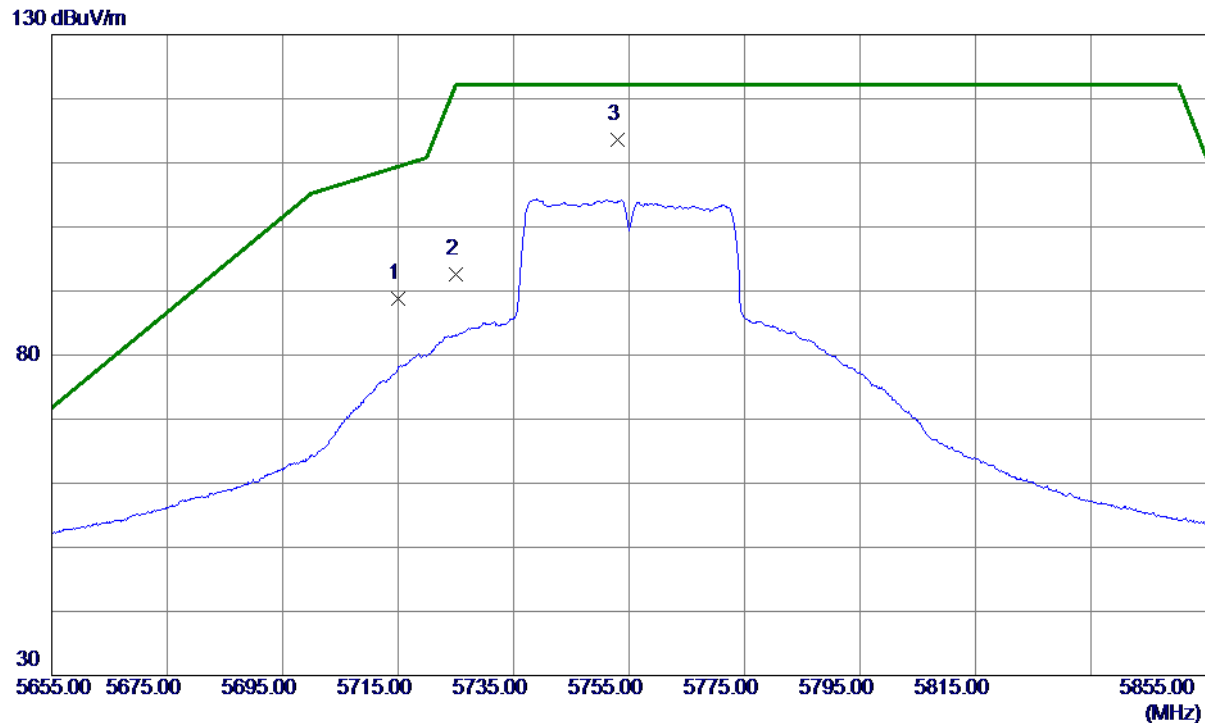
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11648.0400	41.32	17.23	58.55	74.00	-15.45	Peak	
2 *	11648.4750	25.08	17.23	42.31	54.00	-11.69	AVG	

### 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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	70.08	18.65	88.73	109.40	-20.67	Peak	
2	5725.0000	73.82	18.69	92.51	122.20	-29.69	Peak	
3 *	5753.1000	94.78	18.78	113.56	122.20	-8.64	Peak	No Limit

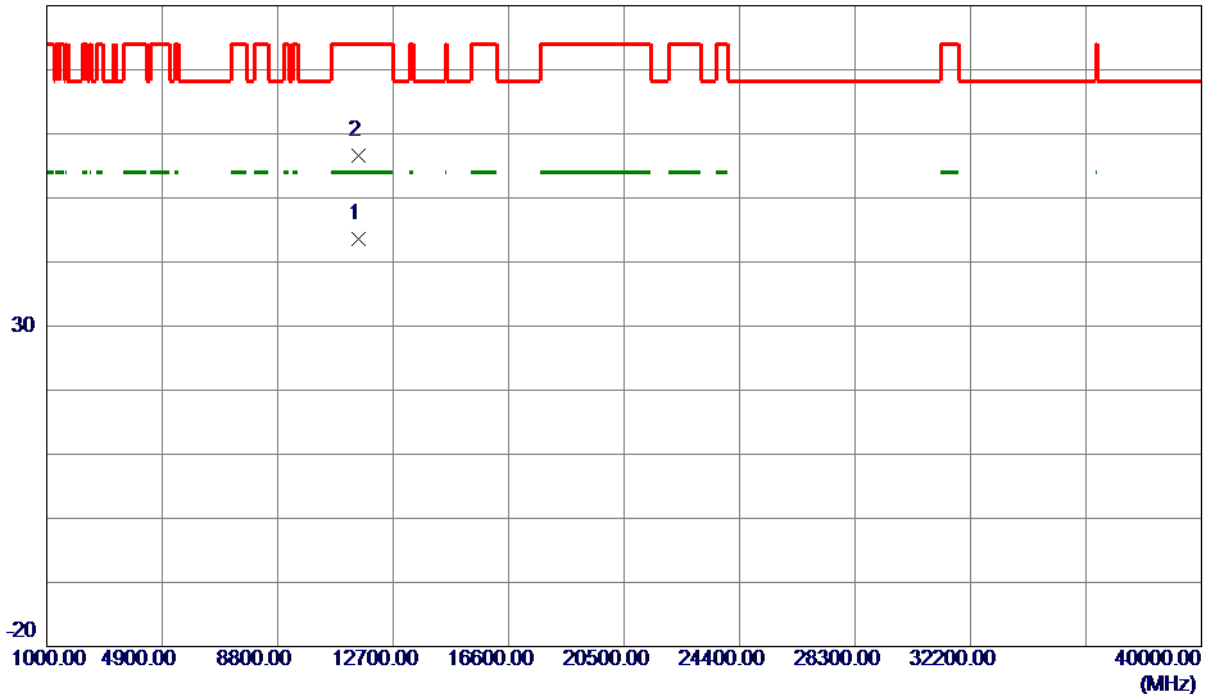
### REMARKS:

- (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 *	11510.0820	26.38	17.18	43.56	54.00	-10.44	AVG	
2	11510.2470	39.39	17.18	56.57	74.00	-17.43	Peak	

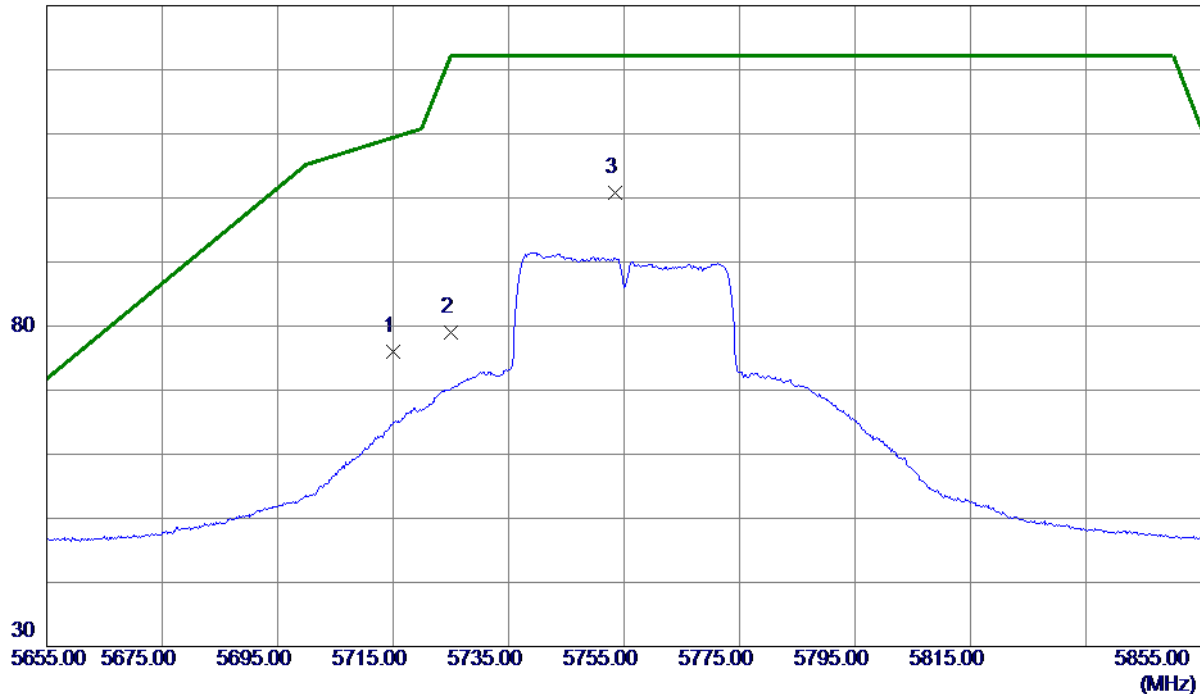
### REMARKS:

- (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 5755 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	5715.0000	57.40	18.65	76.05	109.40	-33.35	Peak	
2	5725.0000	60.31	18.69	79.00	122.20	-43.20	Peak	
3 *	5753.4000	81.99	18.78	100.77	122.20	-21.43	Peak	No Limit

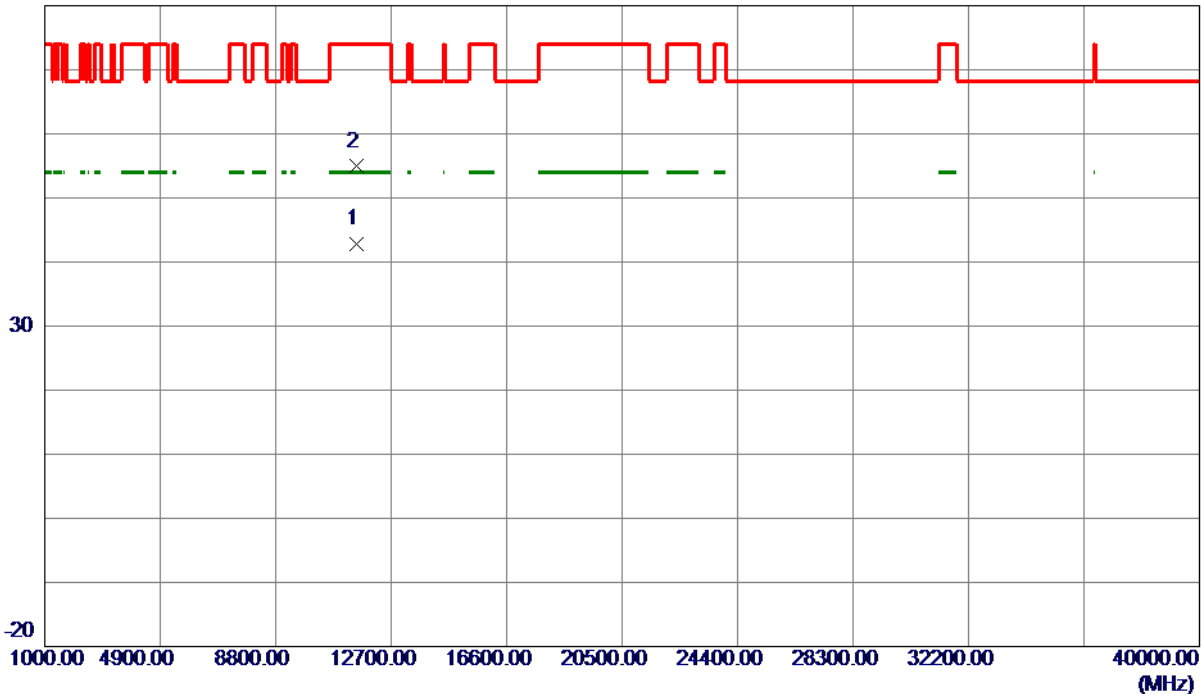
### REMARKS:

- (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



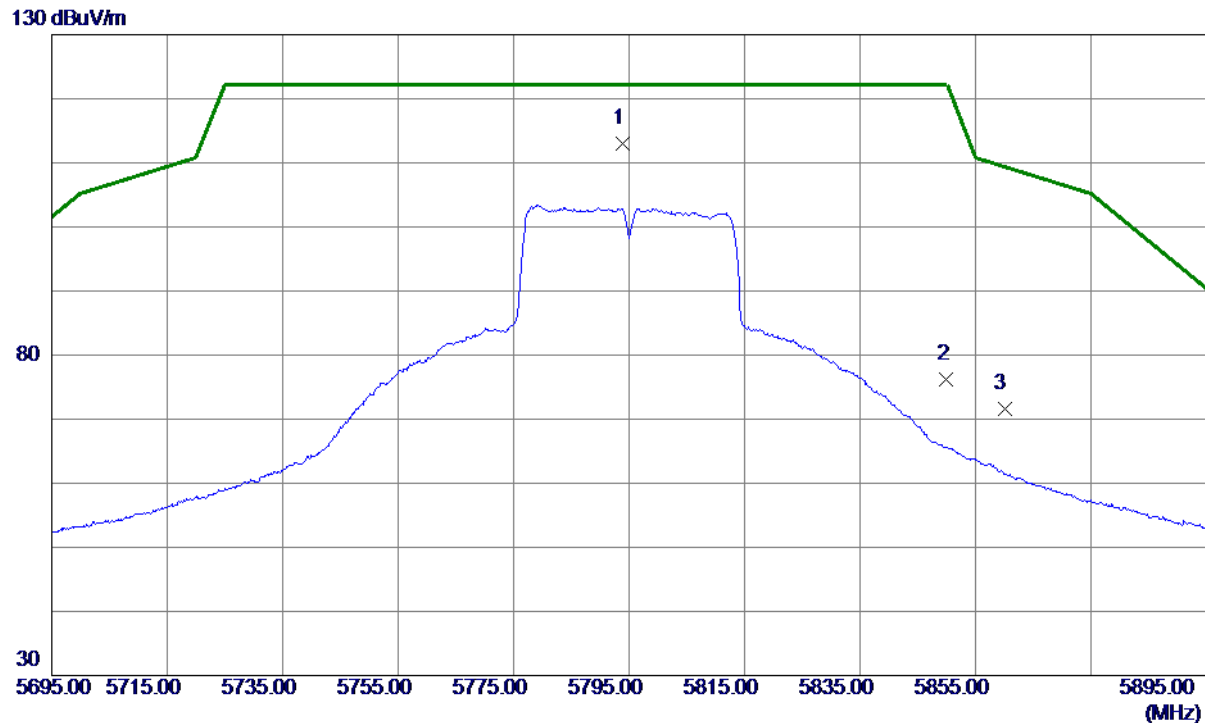
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11510.0900	25.70	17.18	42.88	54.00	-11.12	AVG	
2	11511.3600	37.72	17.18	54.90	74.00	-19.10	Peak	

### 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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5793.9000	94.07	18.91	112.98	122.20	-9.22	Peak	No Limit
2	5850.0000	57.12	19.09	76.21	122.20	-45.99	Peak	
3	5860.0000	52.51	19.13	71.64	109.40	-37.76	Peak	

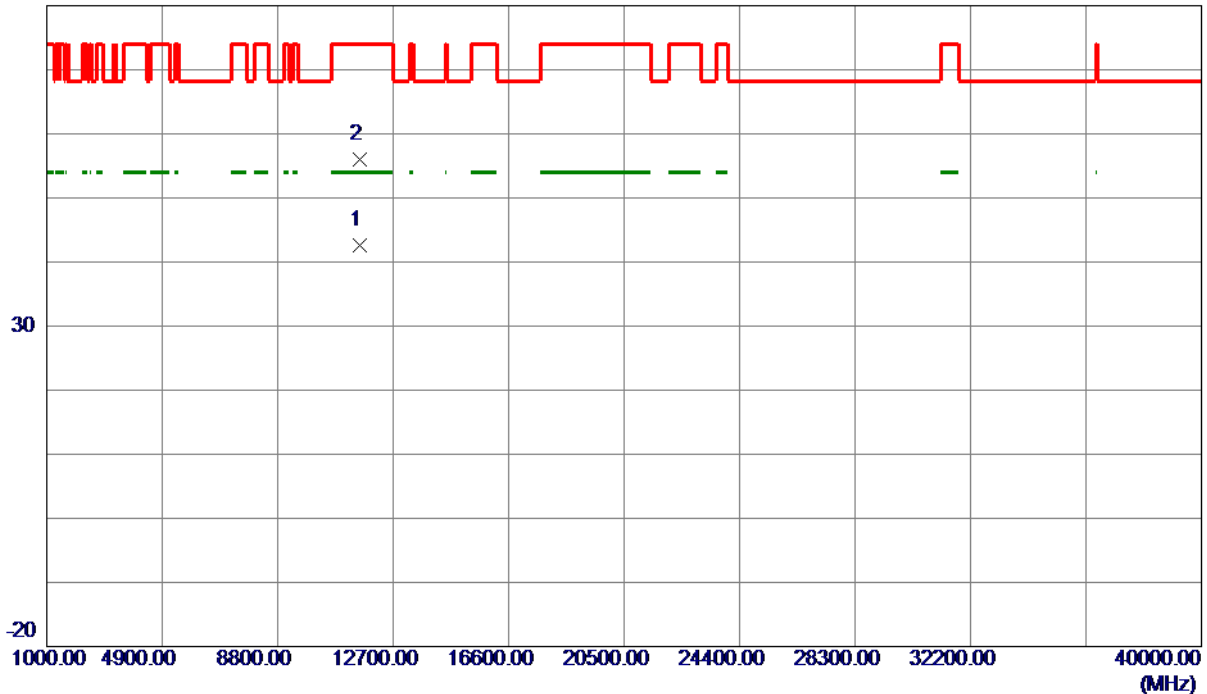
### REMARKS:

- (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



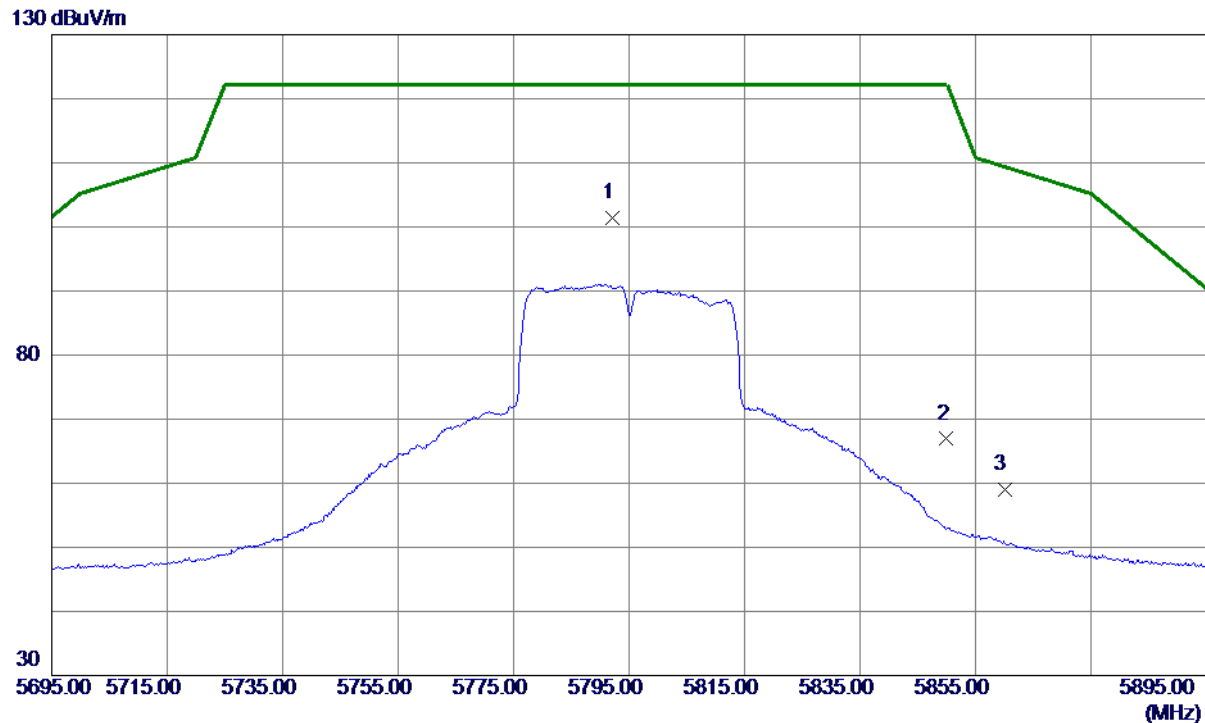
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11590.1769	25.33	17.21	42.54	54.00	-11.46	AVG	
2	11590.3630	38.76	17.21	55.97	74.00	-18.03	Peak	

### 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.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5792.2000	82.48	18.90	101.38	122.20	-20.82	Peak	No Limit
2	5850.0000	47.81	19.09	66.90	122.20	-55.30	Peak	
3	5860.0000	39.82	19.13	58.95	109.40	-50.45	Peak	

### REMARKS:

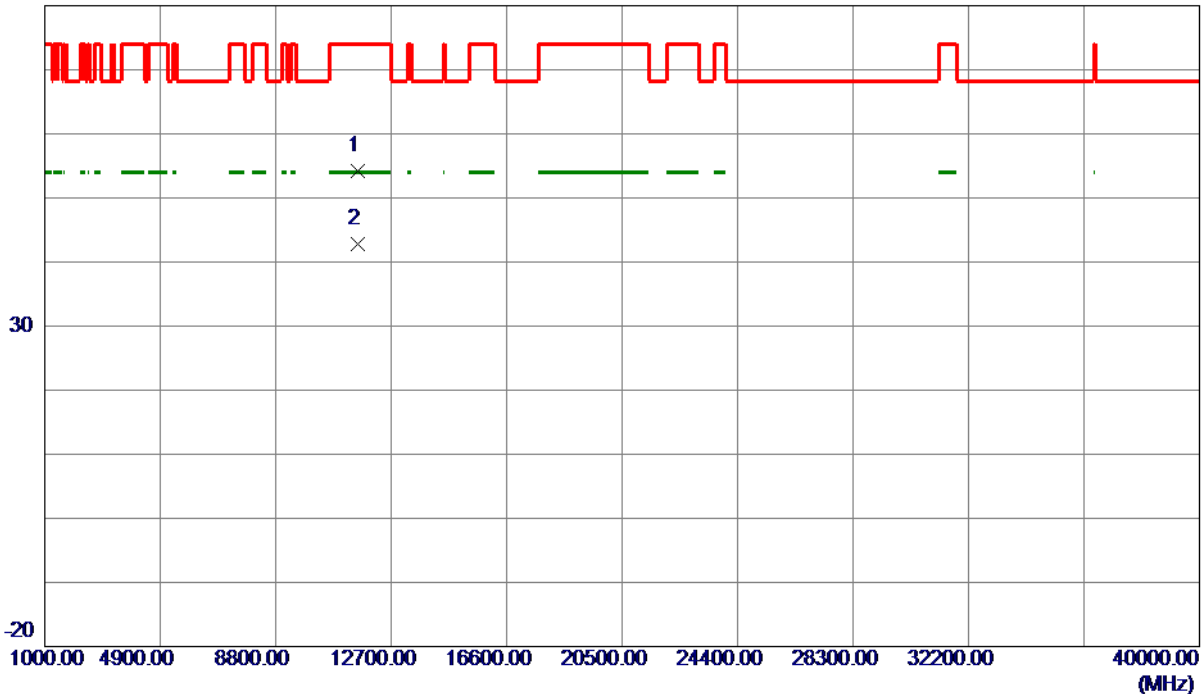
- (1) Measurement Value = Reading Level + Correct Factor.  
(2) Margin Level = Measurement Value - Limit Value.



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	11587.8300	37.03	17.21	54.24	74.00	-19.76	Peak	
2 *	11589.9600	25.55	17.21	42.76	54.00	-11.24	AVG	

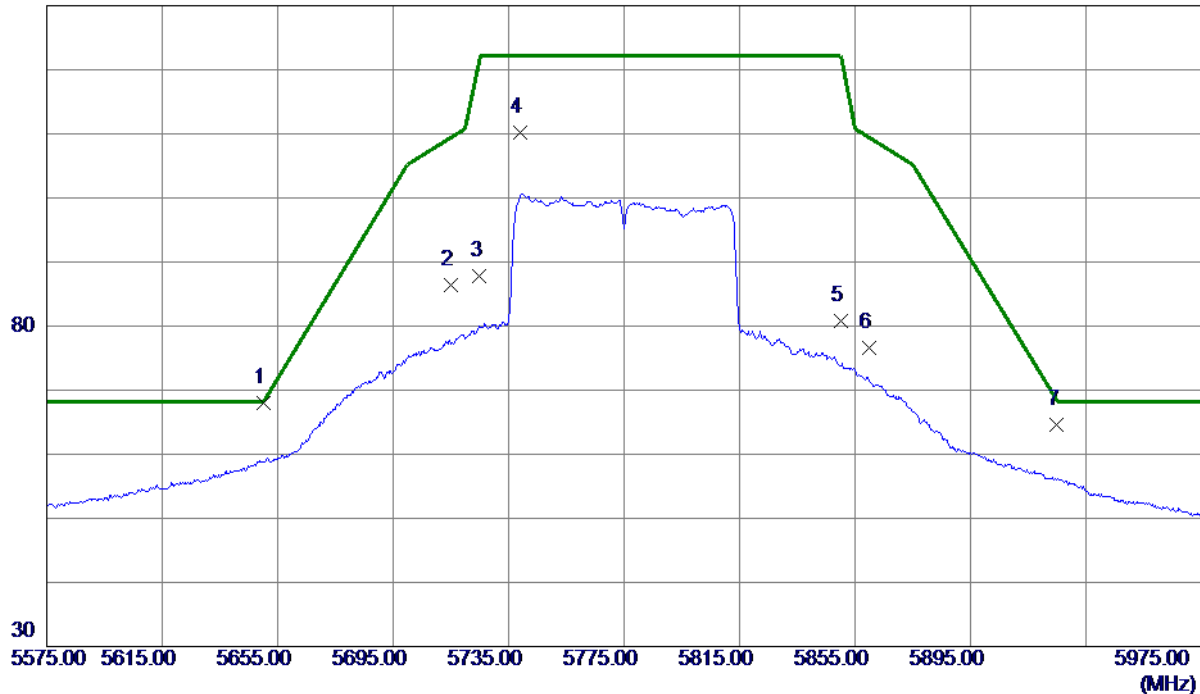
### REMARKS:

- (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

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 *	5650.0000	49.65	18.44	68.09	68.20	-0.11	Peak	
2	5715.0000	67.69	18.65	86.34	109.40	-23.06	Peak	
3	5725.0000	69.13	18.69	87.82	122.20	-34.38	Peak	
4	5739.2000	91.49	18.73	110.22	122.20	-11.98	Peak	No Limit
5	5850.0000	61.67	19.09	80.76	122.20	-41.44	Peak	
6	5860.0000	57.52	19.13	76.65	109.40	-32.75	Peak	
7	5925.0000	45.26	19.34	64.60	68.20	-3.60	Peak	

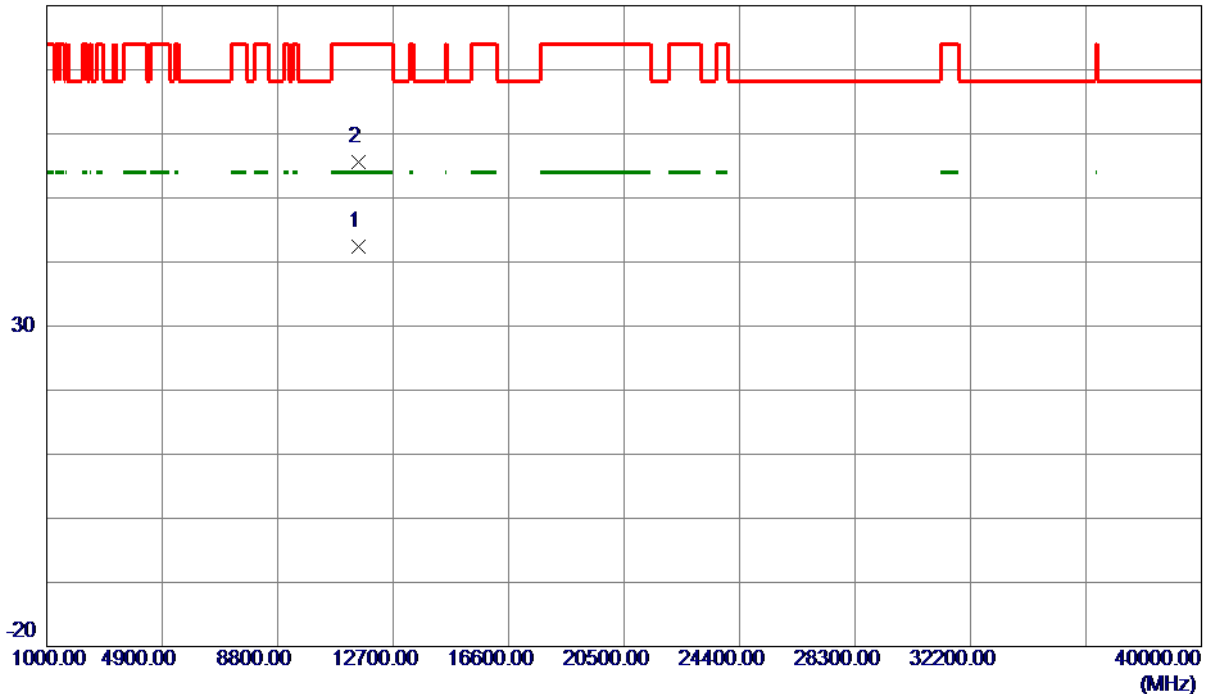
### REMARKS:

- (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 *	11549.7400	25.22	17.20	42.42	54.00	-11.58	AVG	
2	11550.3280	38.49	17.20	55.69	74.00	-18.31	Peak	

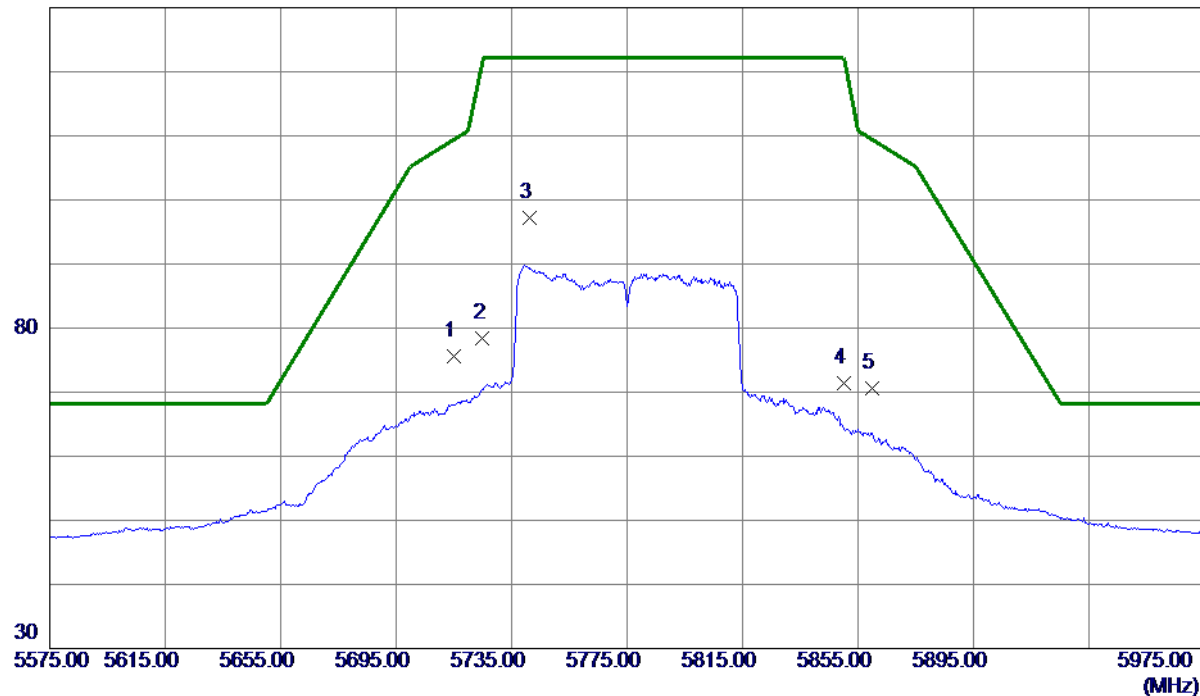
### REMARKS:

- (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

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	5715.0000	57.01	18.65	75.66	109.40	-33.74	Peak	
2	5725.0000	59.63	18.69	78.32	122.20	-43.88	Peak	
3 *	5741.4000	78.54	18.74	97.28	122.20	-24.92	Peak	No Limit
4	5850.0000	52.39	19.09	71.48	122.20	-50.72	Peak	
5	5860.0000	51.43	19.13	70.56	109.40	-38.84	Peak	

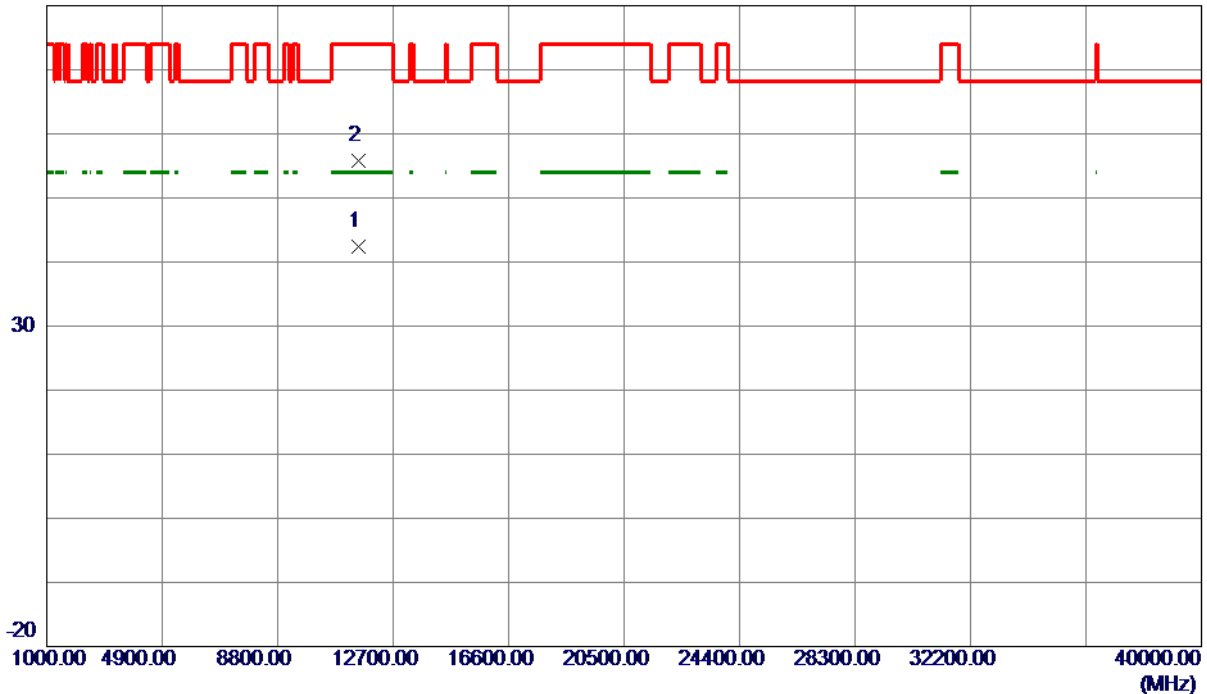
### REMARKS:

- (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 *	11549.9500	25.22	17.20	42.42	54.00	-11.58	AVG	
2	11550.0100	38.64	17.20	55.84	74.00	-18.16	Peak	

### REMARKS:

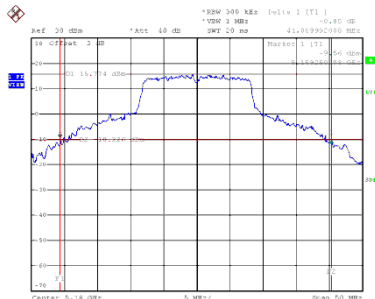
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## **APPENDIX E - BANDWIDTH**

Test Mode	UNII-1_TX A Mode
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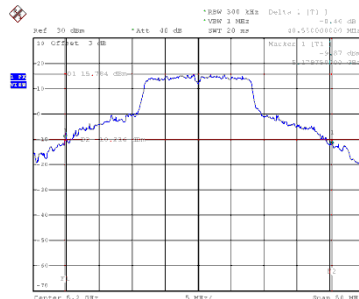
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	41.09	26.30
40	5200	40.55	25.80
48	5240	39.59	20.00

CH36



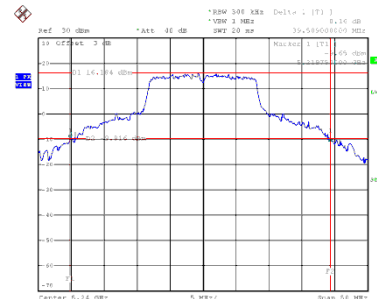
Date: 29.MAY.2020 17:18:52

CH40  
26 dB Bandwidth



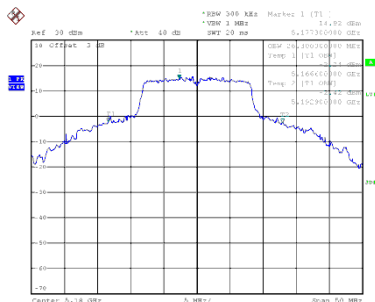
Date: 29.MAY.2020 17:19:16

CH48

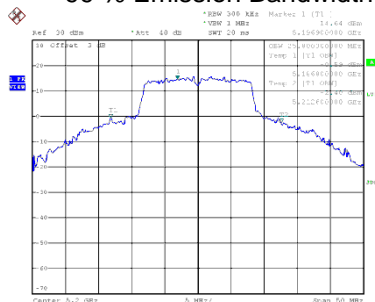


Date: 29.MAY.2020 17:19:33

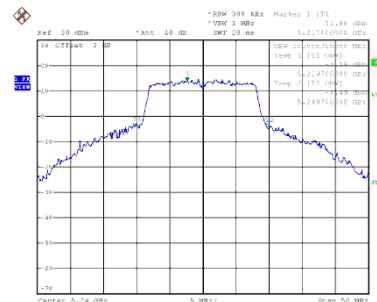
99 % Emission Bandwidth



Date: 29.MAY.2020 17:18:41



Date: 29.MAY.2020 17:19:25

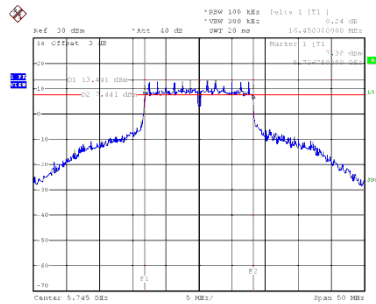


Date: 29.MAY.2020 17:19:40

Test Mode	UNII-3_TX A Mode
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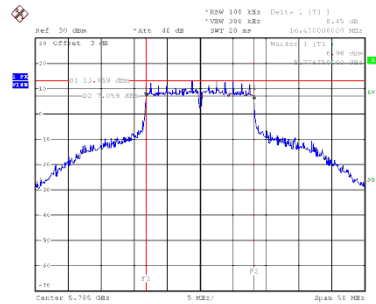
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	16.45	22.70	500	Complies
157	5785	16.45	21.90	500	Complies
165	5825	16.45	22.10	500	Complies

CH149



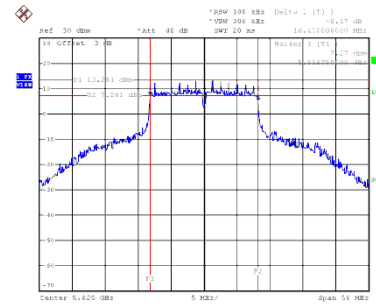
Date: 29.MAY.2020 17:21:53

CH157  
6 dB Bandwidth



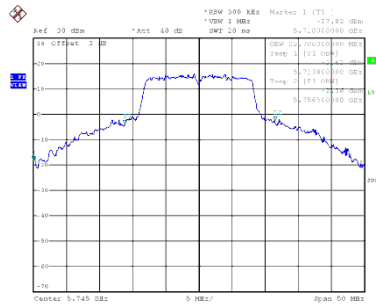
Date: 29.MAY.2020 17:23:11

CH165

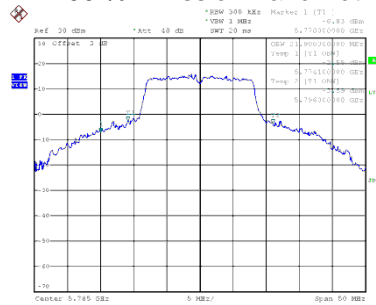


Date: 29.MAY.2020 17:23:57

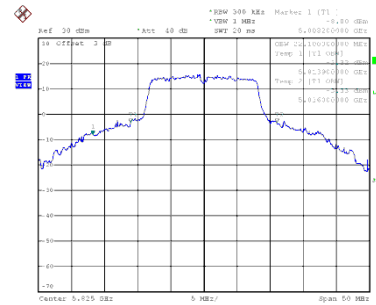
99 % Emission Bandwidth



Date: 29.MAY.2020 17:21:52



Date: 29.MAY.2020 17:22:48



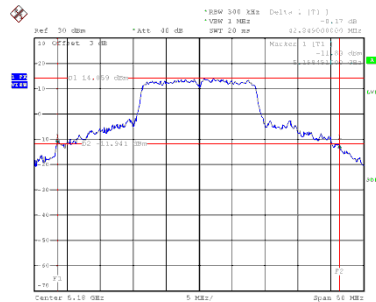
Date: 29.MAY.2020 17:23:35



Test Mode	UNII-1_TX AC (VHT20) Mode
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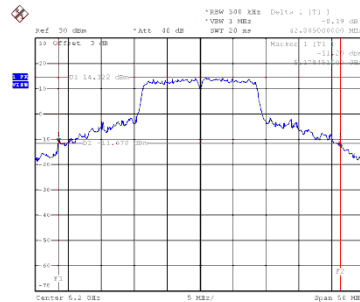
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	42.85	25.10
40	5200	42.89	25.80
48	5240	41.60	19.60

CH36



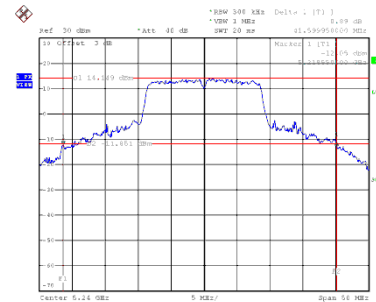
Date: 29.MAY.2020 17:27:04

CH40  
26 dB Bandwidth



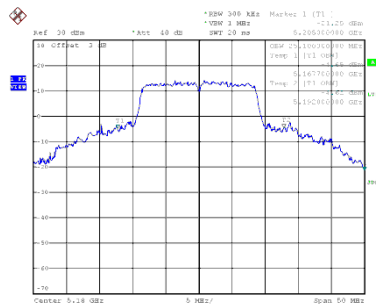
Date: 29.MAY.2020 17:28:54

CH48

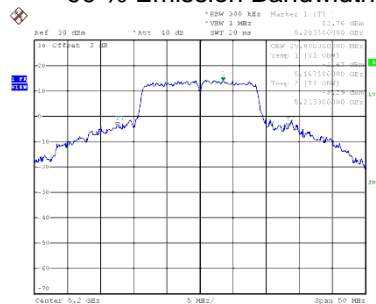


Date: 29.MAY.2020 17:29:46

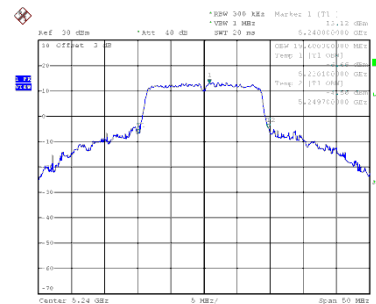
99 % Emission Bandwidth



Date: 29.MAY.2020 17:26:54



Date: 29.MAY.2020 17:28:43



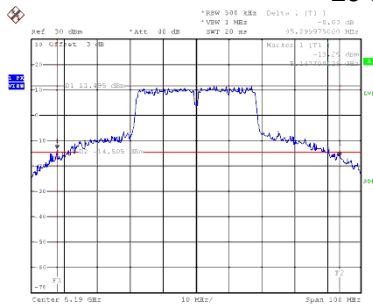
Date: 29.MAY.2020 17:47:40

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	85.90	48.40
46	5230	86.80	39.00

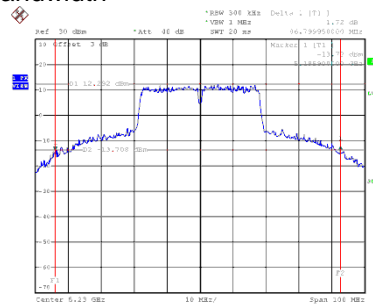
CH38

26 dB Bandwidth



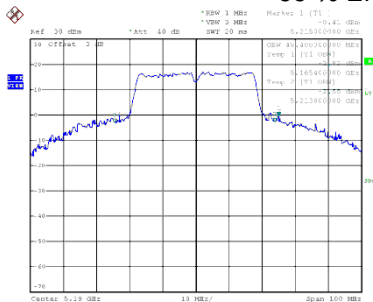
Dater: 29.MAY.2020 17:39:28

CH46

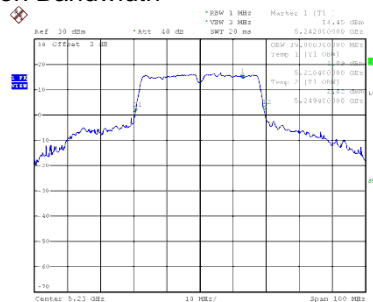


Dater: 29.MAY.2020 17:40:24

99 % Emission Bandwidth



Dater: 29.MAY.2020 17:39:11

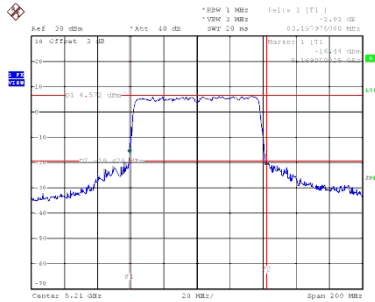


Dater: 29.MAY.2020 17:48:09

Test Mode	UNII-1_TX AC (VHT80)
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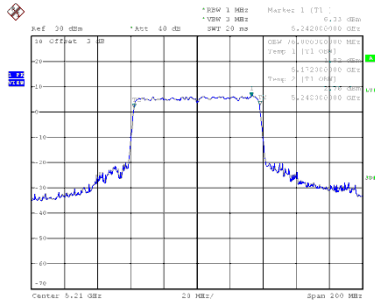
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
42	5210	83.20	76.00

## CH42 26 dB Bandwidth



Date: 2.JUL.2020 10:00:41

## 99 % Emission Bandwidth

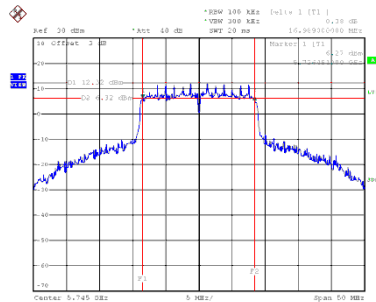


Date: 2.JUL.2020 10:00:07

Test Mode	UNII-3_TX AC (VHT20) Mode
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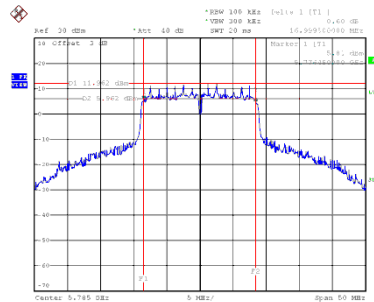
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
149	5745	16.99	21.10	500	Complies
157	5785	17.00	20.30	500	Complies
165	5825	16.99	20.60	500	Complies

CH149



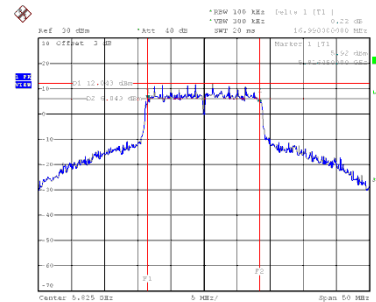
Date: 29.MAY.2020 17:32:35

CH157  
6 dB Bandwidth



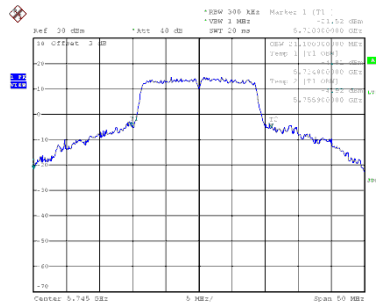
Date: 29.MAY.2020 17:33:24

CH165

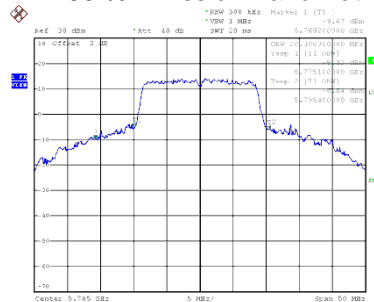


Date: 29.MAY.2020 17:34:36

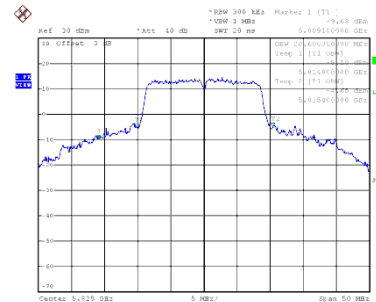
99 % Emission Bandwidth



Date: 29.MAY.2020 17:32:13



Date: 29.MAY.2020 17:33:11



Date: 29.MAY.2020 17:34:14

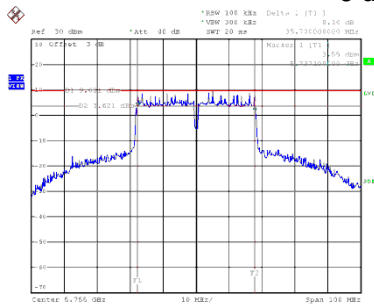
Test Mode	UNII-3_TX AC (VHT40) Mode
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Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
151	5755	35.70	40.40	500	Complies
159	5795	35.80	42.20	500	Complies

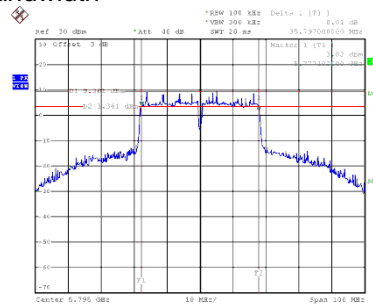
CH151

CH159

### 6 dB Bandwidth

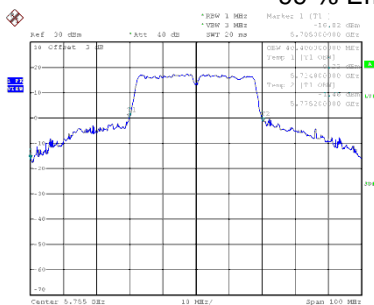


Date: 29.MAY.2020 17:41:33

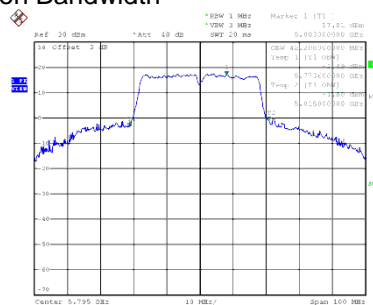


Date: 29.MAY.2020 17:42:43

## 99 % Emission Bandwidth



Date: 29.MAY.2020 17:41:04



Date: 29.MAY.2020 17:42:14

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)	6 dB Bandwidth Min. Limit (kHz)	Result
155	5775	74.79	84.80	500	Complies

\* RES 1 MHz  
 \* VBW 1 MHz  
 \* SWP 20 ms

Marker 1 (F):  
 -10.40 dBm  
 5.00000000 GHz

10 offset 20  
 20  
 10  
 0  
 -10  
 -20  
 -30  
 -40  
 -50  
 -60  
 -70

20 MHz  
 200 MHz

Center 5.775 GHz

Page 126 of 138

## **APPENDIX F - MAXIMUM OUTPUT POWER**

Test Mode	UNII-1_TX A Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	19.06	0.00	19.06	30.00	1.00	Complies
40	5200	21.89	0.00	21.89	30.00	1.00	Complies
48	5240	21.98	0.00	21.98	30.00	1.00	Complies

Test Mode	UNII-3_TX A Mode
-----------	------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	21.96	0.00	21.96	30.00	1.00	Complies
157	5785	21.84	0.00	21.84	30.00	1.00	Complies
165	5825	21.91	0.00	21.91	30.00	1.00	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
36	5180	20.36	0.00	20.36	30.00	1.00	Complies
40	5200	20.93	0.00	20.93	30.00	1.00	Complies
48	5240	20.91	0.00	20.91	30.00	1.00	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
38	5190	14.94	0.00	14.94	30.00	1.00	Complies
46	5230	20.84	0.00	20.84	30.00	1.00	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
42	5210	12.70	0.09	12.79	30.00	1.00	Complies



Test Mode	UNII-3_TX AC (VHT20) Mode
-----------	---------------------------

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
149	5745	20.93	0.00	20.93	30.00	1.00	Complies
157	5785	20.89	0.00	20.89	30.00	1.00	Complies
165	5825	20.94	0.00	20.94	30.00	1.00	Complies

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

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
151	5755	20.92	0.00	20.92	30.00	1.00	Complies
159	5795	20.96	0.00	20.96	30.00	1.00	Complies

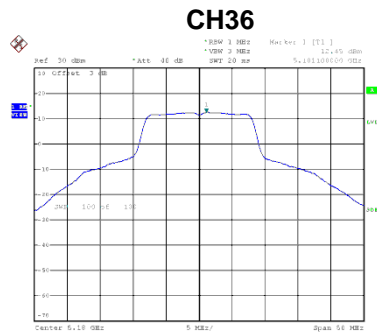
Test Mode	UNII-3_TX AC (VHT80) Mode
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Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor	Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
155	5775	21.06	0.09	21.15	30.00	1.00	Complies

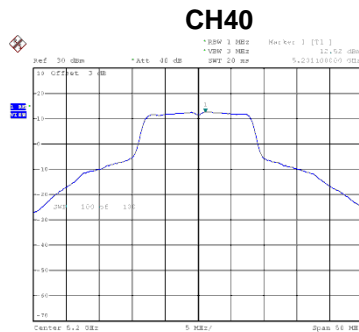
## **APPENDIX G - POWER SPECTRAL DENSITY**

Test Mode	UNII-1_TX A Mode
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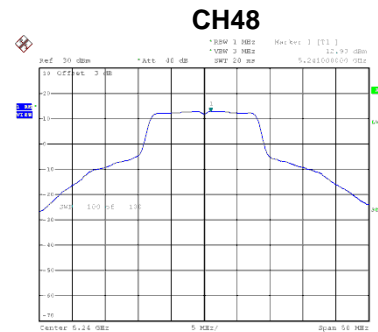
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	12.45	0.00	12.45	17.00	Complies
40	5200	12.52	0.00	12.52	17.00	Complies
48	5240	12.93	0.00	12.93	17.00	Complies



Date: 29.MAY.2020 17:19:34



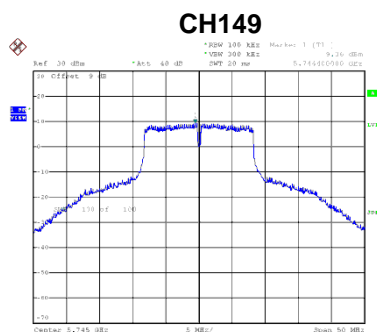
Date: 29.MAY.2020 17:19:50



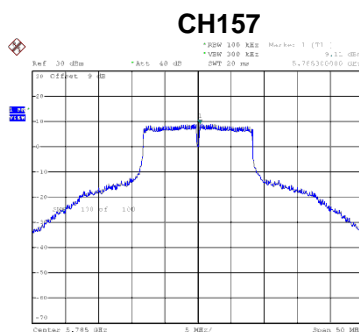
Date: 29.MAY.2020 17:20:46

Test Mode	UNII-3_TX A Mode
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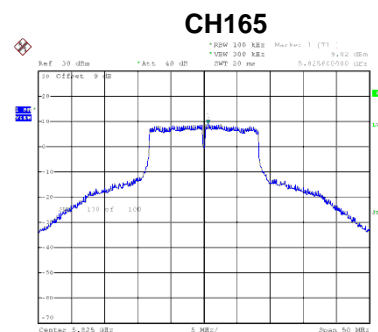
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	9.36	0.00	9.36	30.00	Complies
157	5785	9.11	0.00	9.11	30.00	Complies
165	5825	9.02	0.00	9.02	30.00	Complies



Date: 14.JUL.2020 17:50:27



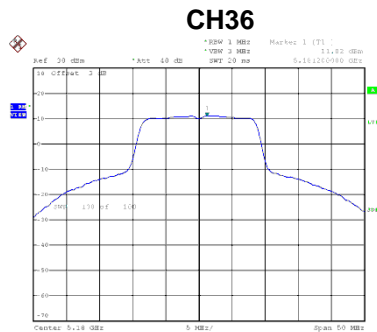
Date: 14.JUL.2020 17:51:14



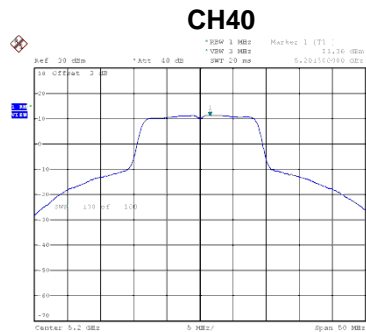
Date: 14.JUL.2020 17:52:25

Test Mode	UNII-1_TX AC (VHT20) Mode
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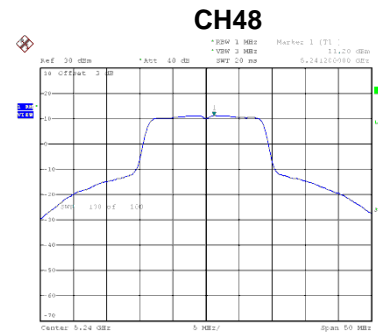
Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
36	5180	11.02	0.00	11.02	17.00	Complies
40	5200	11.36	0.00	11.36	17.00	Complies
48	5240	11.20	0.00	11.20	17.00	Complies



Date: 29.MAY.2020 17:27:18



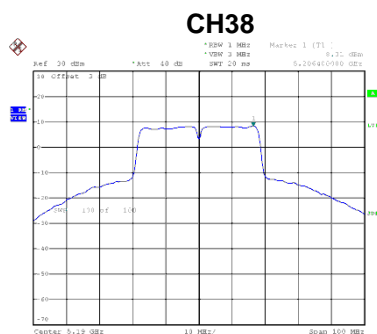
Date: 29.MAY.2020 17:29:07



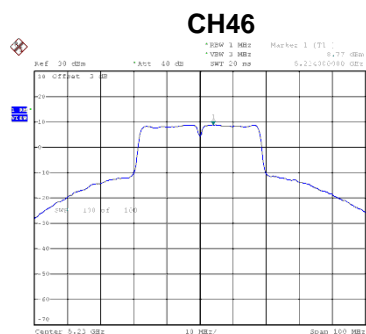
Date: 29.MAY.2020 17:29:59

Test Mode	UNII-1_TX AC (VHT40) Mode
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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	8.31	0.00	8.31	17.00	Complies
46	5230	8.77	0.00	8.77	17.00	Complies



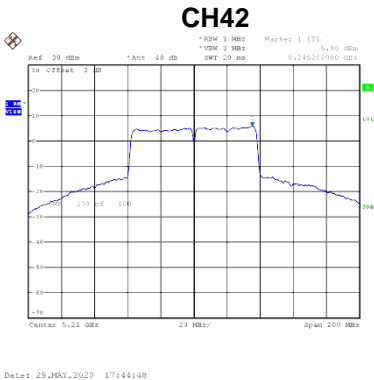
Date: 29.MAY.2020 17:39:48



Date: 29.MAY.2020 17:40:44

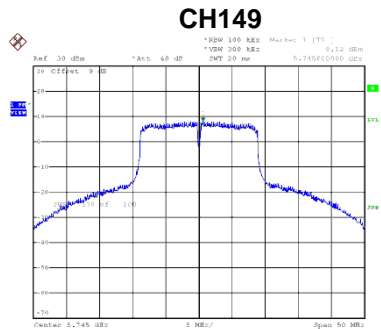
Test Mode	UNII-1_TX AC (VHT80) Mode
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Channel	Frequency (MHz)	Power Spectral Density (dBm/MHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Result
42	5210	5.90	0.09	5.99	17.00	Complies

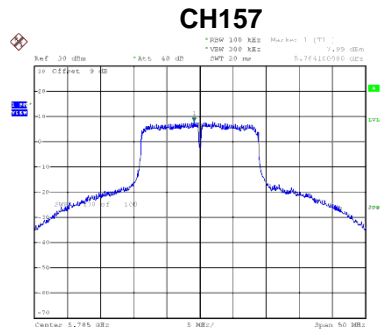


Test Mode	UNII-3_TX AC (VHT20) Mode
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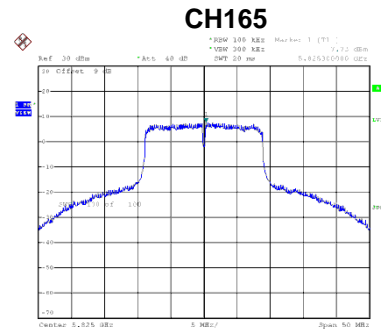
Channel	Frequency (MHz)	Power Spectral Density (dBm/500 kHz)	Duty Factor	Power Spectral Density + Duty Factor (dBm/500 kHz)	Max. Limit (dBm/500 kHz)	Result
149	5745	8.12	0.00	8.12	30.00	Complies
157	5785	7.99	0.00	7.99	30.00	Complies
165	5825	7.73	0.00	7.73	30.00	Complies



Date: 14\_JUL\_2020 17:54:51



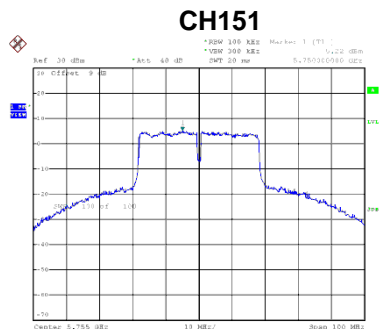
Date: 14\_JUL\_2020 17:55:21



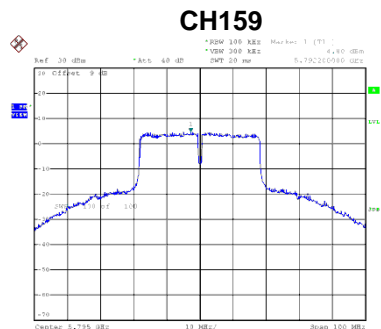
Date: 14\_JUL\_2020 17:55:43

Test Mode	UNII-3_TX AC (VHT40) Mode
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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
151	5755	5.22	0.00	5.22	30.00	Complies
159	5795	4.80	0.00	4.80	30.00	Complies



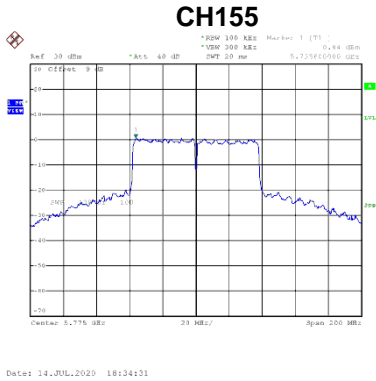
Date: 14\_JUL\_2020 18:33:17



Date: 14\_JUL\_2020 18:33:13

Test Mode	UNII-3_TX AC (VHT80) Mode
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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	0.84	0.09	0.93	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	5180.0000
120	5179.9999
102	5179.9800
Maximum Deviation (MHz)	0.0200
Maximum Deviation (ppm)	3.8634

### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5180.0000
0	5179.9999
10	5179.9950
20	5179.9948
30	5180.0000
40	5179.9800
Maximum Deviation (MHz)	0.0200
Maximum Deviation (ppm)	3.8658

Test Mode	UNII-3
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#### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5745.0000
138	5744.9999
120	5745.0000
102	5745.0000
Maximum Deviation (MHz)	0.0001
Maximum Deviation (ppm)	0.0196

#### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(°C)	5745.0000
0	5744.9948
10	5744.9950
20	5745.0000
30	5745.0000
40	5744.9948
Maximum Deviation (MHz)	0.0052
Maximum Deviation (ppm)	0.9030

End of Test Report