

FCC Radio Test Report

FCC ID: V7TI24

This report concerns: Original Grant

Project No. : 1901C087
Equipment : AC1200 Wave2 Gigabit Access Point
Test Model : i24
Series Model : N/A
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Date of Receipt : Jan. 18, 2019
Date of Test : Jan. 18, 2019 ~ Feb. 23, 2019
Issued Date : Mar. 01, 2019
Tested by : BTL Inc.

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Certificate #5123.02

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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.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Mar. 01, 2019

1. GENERAL SUMMARY

Equipment : AC1200 Wave2 Gigabit Access Point
Brand Name : Tenda
Test Model : i24
Series Model : N/A
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Manufacturer : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Date of Test : Jan. 18, 2019 ~ Feb. 23, 2019
Test Sample : Engineering Sample No.: D190100581
Standard(s) : FCC Part15, Subpart E(15.407)
ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1901C087) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

Test results included in this report are only for the UNII-1 and UNII-3 part.

2. 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	-----
15.205 15.407(b)	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	-----
15.407(c)	Automatically Discontinue Transmission	-----	PASS	NOTE (2)

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) 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.
- (3) For UNII-1 this device was functioned as a
 - Access point device
 - Client device

2.1 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

2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30 MHz	2.32

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9 kHz~30 MHz	V	3.79
		9 kHz~30 MHz	H	3.57
		30 MHz~200 MHz	V	3.82
		30 MHz~200 MHz	H	3.60
		200 MHz~1,000 MHz	V	3.86
		200 MHz~1,000 MHz	H	3.94
		1 GHz~18 GHz	V	3.12
		1 GHz~18 GHz	H	3.68
		18 GHz~40 GHz	V	4.15
		18 GHz~40 GHz	H	4.14

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Wave2 Gigabit Access Point
Brand Name	Tenda
Test Model	i24
Series Model	N/A
Model Difference(s)	N/A
Power Source	1# DC voltage supplied from AC/DC adapter. (support unit) 2# DC voltage supplied from PoE adapter.
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.6A O/P: 12V - - - 1.5A 2# DC 48V
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 Conducted Output Power for UNII-1 Non-Beamforming	IEEE 802.11a: 21.02 dBm (0.1265 W) IEEE 802.11n (HT20): 26.99 dBm (0.5003 W) IEEE 802.11n (HT40): 26.87 dBm (0.4864 W) IEEE 802.11ac (VHT20): 26.95 dBm (0.4955 W) IEEE 802.11ac (VHT40): 25.84 dBm (0.3839 W) IEEE 802.11ac (VHT80): 16.08 dBm (0.0406 W)
Maximum Conducted Output Power for UNII-3 Non-Beamforming	IEEE 802.11a: 21.82 dBm (0.1521 W) IEEE 802.11n (HT20): 24.54 dBm (0.2848 W) IEEE 802.11n (HT40): 26.26 dBm (0.4224 W) IEEE 802.11ac (VHT20): 24.62 dBm (0.2897 W) IEEE 802.11ac (VHT40): 26.34 dBm (0.4310 W) IEEE 802.11ac (VHT80): 24.84 dBm (0.3049 W)
Maximum Conducted Output Power for UNII-1 Beamforming	IEEE 802.11n (HT20): 26.74 dBm (0.4722 W) IEEE 802.11n (HT40): 26.73 dBm (0.4713 W) IEEE 802.11ac (VHT20): 26.81 dBm (0.4802 W) IEEE 802.11ac (VHT40): 25.78 dBm (0.3781 W) IEEE 802.11ac (VHT80): 16.04 dBm (0.0402 W)
Maximum Conducted Output Power for UNII-3 Beamforming	IEEE 802.11n (HT20): 24.40 dBm (0.2753 W) IEEE 802.11n (HT40): 26.10 dBm (0.4077 W) IEEE 802.11ac (VHT20): 24.54 dBm (0.2844 W) IEEE 802.11ac (VHT40): 26.29 dBm (0.4255 W) IEEE 802.11ac (VHT80): 24.80 dBm (0.3017 W)

Note:

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

2. Channel List:

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

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

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	4.5
2	N/A	N/A	Internal	N/A	4.5

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely correlated, so,

(1) For Non Beamforming function,

$$\text{Directional gain} = G_{\text{ANT}} + \text{Array Gain},$$

For power spectral density measurements, Array Gain = $10 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB

$$\text{Directional gain} = 4.50 + 10 \log(2/1) = 7.51 \text{ dBi}.$$

So, the UNII-1 power density limit is $17 - (7.51 - 6) = 15.49$

the UNII-3 power density limit is $30 - (7.51 - 6) = 28.49$

(2) For Beamforming function, Beamforming gain: 3dB, So,

$$\text{Directional gain} = 3 + 4.50 = 7.50 \text{ dBi}.$$

Then, the output power limit is $30 - (7.50 - 6) = 28.50$,

the UNII-1 power density limit is $17 - (7.50 - 6) = 15.50$,

the UNII-3 power density limit is $30 - (7.50 - 6) = 28.50$.

4. Table for Antenna Configuration:

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

3.2 TEST MODES

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

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

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 13	TX N(HT20) Mode / CH40 (UNII-1)

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

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

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11n(HT20) is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

3.3 PARAMETERS OF TEST SOFTWARE

Non-Beamforming

UNII-1			
Test Software	QSPR		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	22	21	19
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11n (HT20)	22	26	26
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	17	26	

UNII-3			
Test Software	QSPR		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	22	22	23
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11n (HT20)	21	21	23
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	23	24	

UNII-1			
Test Software	QSPR		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11ac (VHT20)	22	26	26
Test Frequency (MHz)	5190	5230	
IEEE 802.11ac (VHT40)	17.5	24	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	14.5		

UNII-3			
Test Software	QSPR		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11ac (VHT20)	21	21	23
Test Frequency (MHz)	5755	5795	
IEEE 802.11ac (VHT40)	23	24	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	23		

Beamforming

UNII-1

Test Software	QSPR		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11n (HT20)	22	26	26
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	17	26	

UNII-3

Test Software	QSPR		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11n (HT20)	21	21	23
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	23	24	

UNII-1

Test Software	QSPR		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11ac (VHT20)	22	26	26
Test Frequency (MHz)	5190	5230	
IEEE 802.11ac (VHT40)	17.5	24	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	14.5		

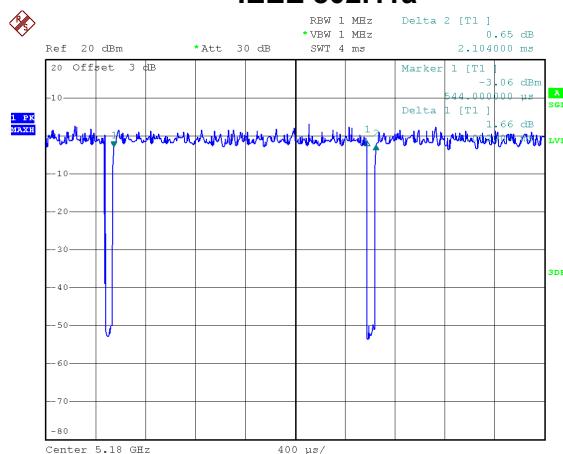
UNII-3

Test Software	QSPR		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11ac (VHT20)	21	21	23
Test Frequency (MHz)	5755	5795	
IEEE 802.11ac (VHT40)	23	24	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	23		

3.4 DUTY CYCLE

If duty cycle is $\geq 98\%$, duty factor is not required.
 If duty cycle is $< 98\%$, duty factor shall be considered.

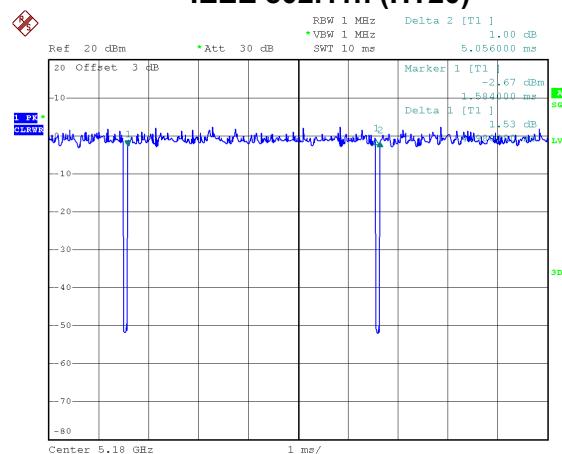
IEEE 802.11a



Date: 23.JAN.2019 15:41:22

Duty cycle = $2.032 \text{ ms} / 2.104 \text{ ms} = 96.58\%$
 Duty Factor = $10 * \log(1 / 96.58\%) = 0.15 \text{ dB}$

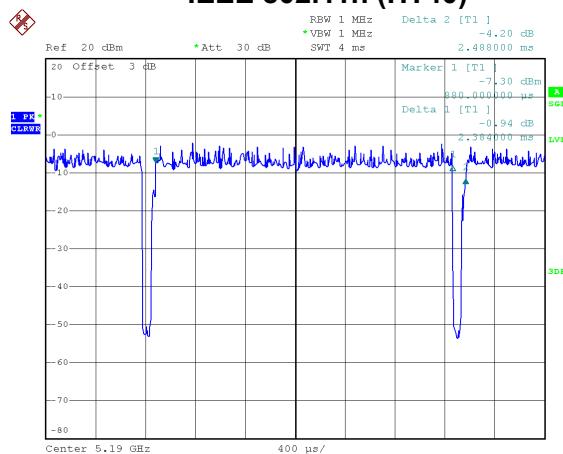
IEEE 802.11n (HT20)



Date: 23.JAN.2019 15:47:41

Duty cycle = $4.980 \text{ ms} / 5.056 \text{ ms} = 98.50\%$
 Duty Factor = $10 * \log(1 / 98.50\%) = 0.00 \text{ dB}$

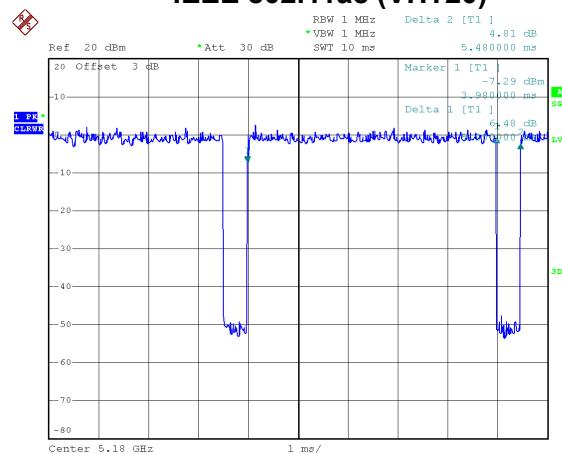
IEEE 802.11n (HT40)



Date: 23.JAN.2019 15:50:11

Duty cycle = $2.384 \text{ ms} / 2.488 \text{ ms} = 95.82\%$
 Duty Factor = $10 * \log(1 / 95.82\%) = 0.19 \text{ dB}$

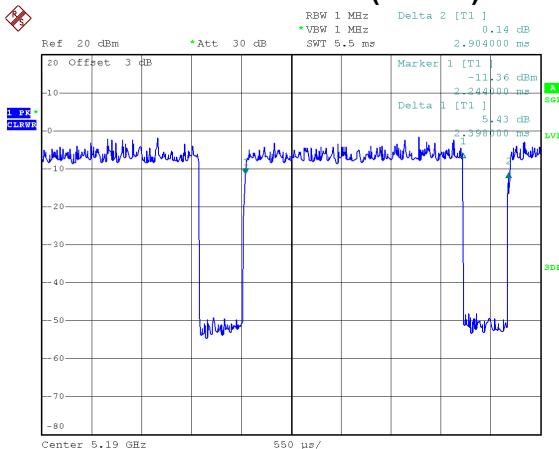
IEEE 802.11ac (VHT20)



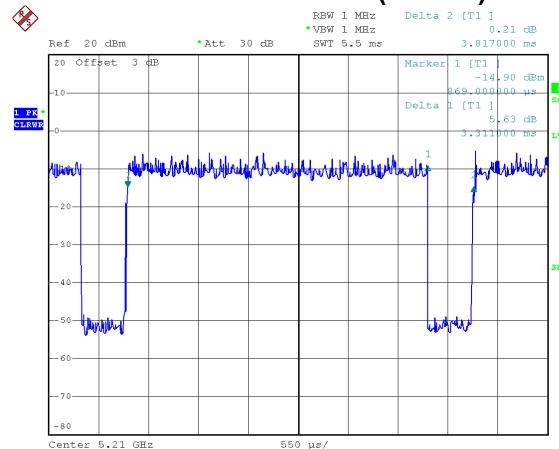
Date: 23.JAN.2019 15:49:24

Duty cycle = $5.000 \text{ ms} / 5.480 \text{ ms} = 91.24\%$
 Duty Factor = $10 * \log(1 / 91.24\%) = 0.40 \text{ dB}$

IEEE 802.11ac (VHT40)



IEEE 802.11ac (VHT80)



Date: 23.JAN.2019 15:50:32

$$\text{Duty cycle} = 2.398 \text{ ms} / 2.904 \text{ ms} = 82.58\%$$

$$\text{Duty Factor} = 10 * \log(1 / 82.58\%) = 0.83 \text{ dB}$$

Date: 23.JAN.2019 15:50:58

$$\text{Duty cycle} = 3.311 \text{ ms} / 3.817 \text{ ms} = 86.74\%$$

$$\text{Duty Factor} = 10 * \log(1 / 86.74\%) = 0.62 \text{ dB}$$

NOTE:

For IEEE 802.11a, IEEE 802.11n (HT20) and IEEE 802.11ac (VHT20):

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

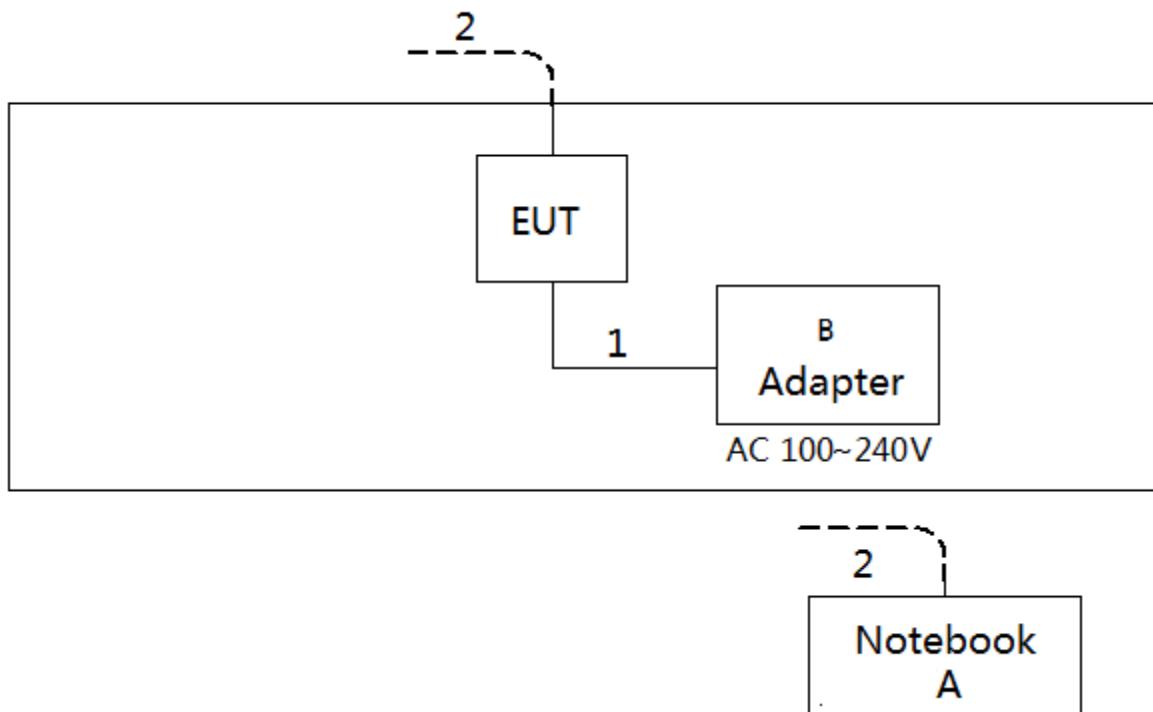
For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

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

For IEEE 802.11ac (VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).

3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Notebook	Lenovo	G410	N/A
B	Adapter	N/A	N/A	N/A

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

4. AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value – Limit Value

Sample calculations: (Refer to page 40, test result No.1.)

Reading Level		Correct Factor		Measurement Value
42.63	+	9.82	=	52.45

Measurement Value		Limit Value		Margin Level
52.45	-	63.45	=	-11.00

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

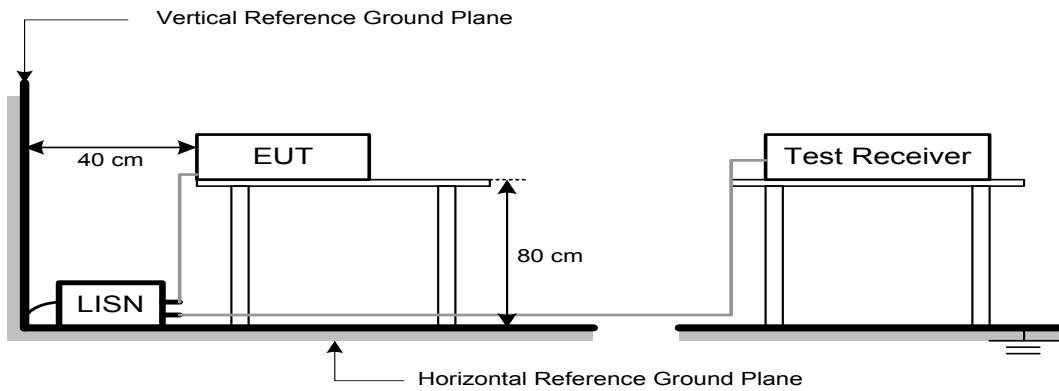
4.2 TEST PROCEDURE

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

4.3 DEVIATION FROM TEST STANDARD

No deviation

4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

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

The EUT was programmed to be in continuously transmitting/TX Mode mode.

4.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 53% Test Voltage: AC 120V/60Hz

4.7 TEST RESULTS

Please refer to the APPENDIX A.

5. RADIATED EMISSIONS TEST

5.1 LIMIT

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

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

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

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dB μ V/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-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: $E = \frac{1000000\sqrt{30P}}{3}$ μ V/m, where P is the eirp (Watts)
- (2) According to FCC 16-24, 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.

5.2 TEST PROCEDURE

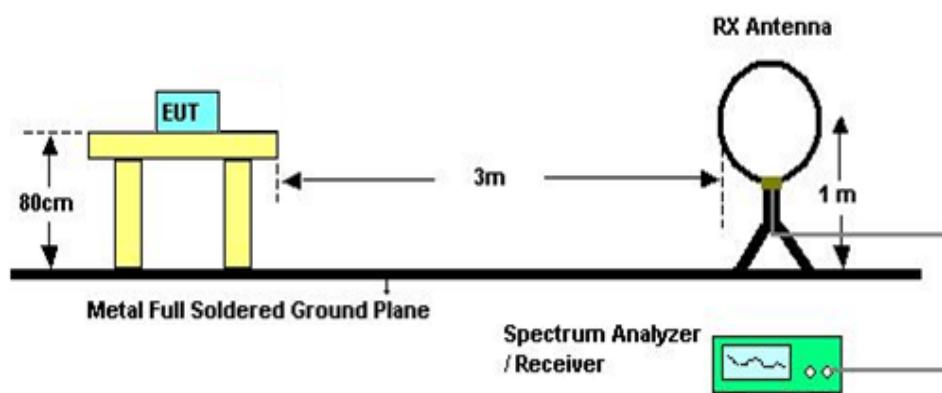
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

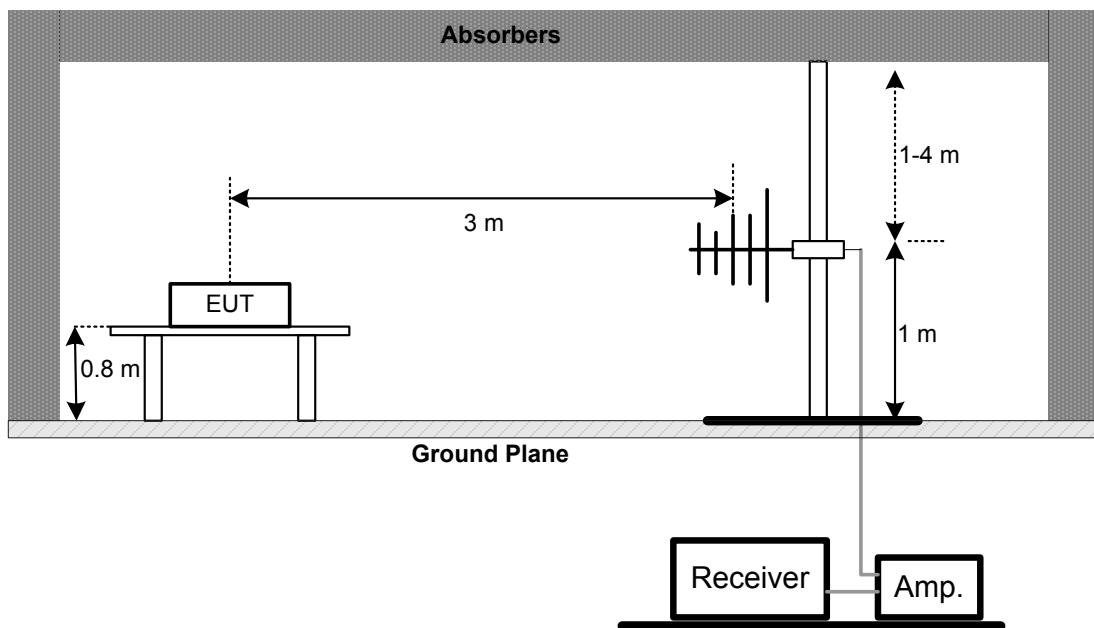
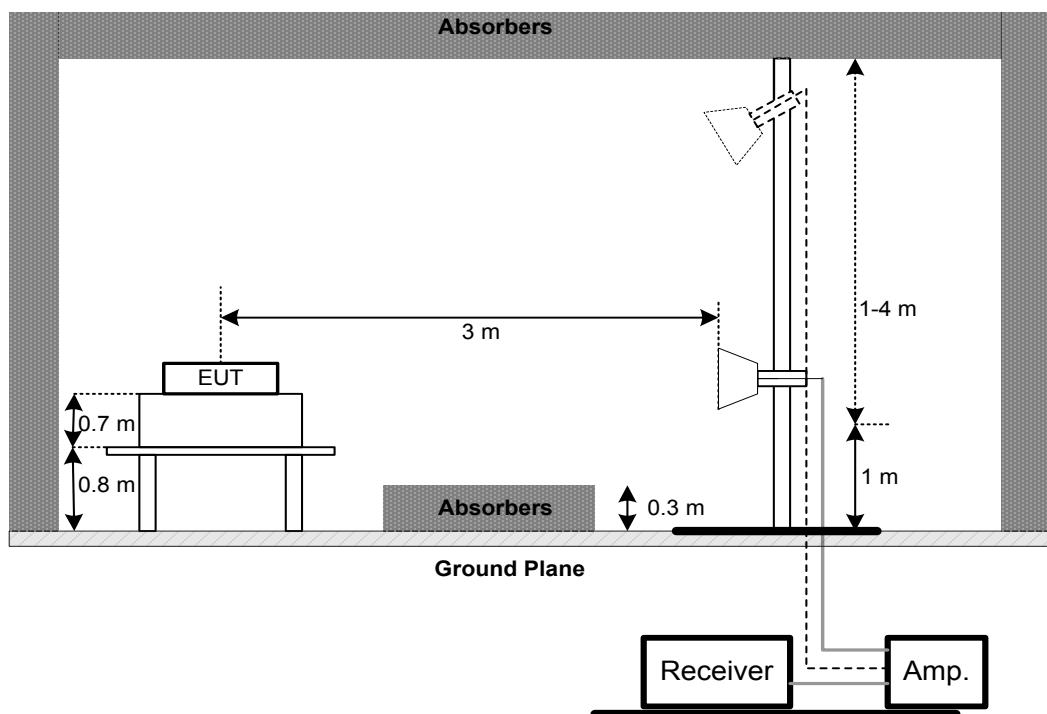
5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz**Above 1 GHz**

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 54% Test Voltage: AC 120V/60Hz

5.7 TEST RESULTS - 9 KHZ to 30 MHZ

Please refer to the APPENDIX B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.8 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

5.9 TEST RESULTS - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

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

6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a) 15.407(e)	26 dB Bandwidth	-	5150-5250
	26 dB Bandwidth	-	5250-5350
	26 dB Bandwidth	-	5470-5725
	6 dB Bandwidth	Minimum 500 kHz	5725-5850

6.2 TEST PROCEDURE

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

b. a. Spectrum Setting:

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

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

For UNII-3:

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

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

6.3 TEST PROCEDURE

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 EUT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 58% Test Voltage: AC 120V/60Hz

6.7 TEST RESULTS

Please refer to the APPENDIX E.

7. MAXIMUM OUTPUT POWER TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Conducted Output Power	AP device: 1 Watt (30 dBm)	5150-5250
		Client device: 250 mW (24 dBm)	
		250 mW (24 dBm)	5250-5350
		250 mW (24 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

- For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

7.2 TEST PROCEDURE

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz.
VBW	≥ 3 MHz.
Sweep points	$\geq 2 \times$ span / RBW
Detector	RMS
Trace	Trace average at least 100 traces in power averaging(rms) mode.
Sweep Time	auto

- Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.6 EUT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 58% Test Voltage: AC 120V/60Hz

7.7 TEST RESULTS

Please refer to the APPENDIX F.

8. POWER SPECTRAL DENSITY TEST

8.1 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	5150-5250
		Client device: 11 dBm/MHz	
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	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	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz.
VBW	\geq 3 MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

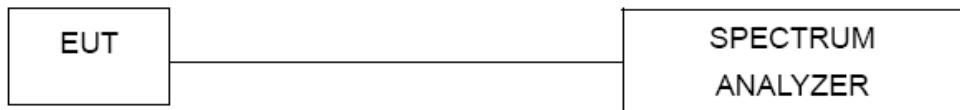
Note:

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

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 UT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 58% Test Voltage: AC 120V/60Hz

8.7 TEST RESULTS

Please refer to the APPENDIX H.

9. FREQUENCY STABILITY MEASUREMENT

9.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(g)	Frequency Stability	Specified in the user's manual	5150-5250
			5250-5350
			5470-5725
			5725-5850

9.2 TEST PROCEDURE

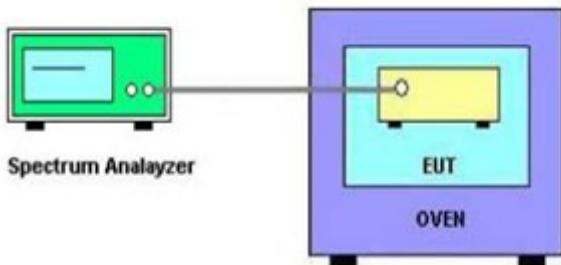
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto
- c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- d. User manual temperature is 0°C~40°C.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 EUT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 58% Test Voltage: AC 120V/60Hz

9.7 TEST RESULTS

Please refer to the APPENDIX I.

10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Mar. 23, 2019

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	Jan. 15, 2020
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019
3	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
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. 11, 2019
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	May 25, 2019
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. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Conducted Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019

Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019
2	Precision Oven Tester	Bell	BTH-50C	20170306001	Mar. 11, 2019

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

11. EUT TEST PHOTOS

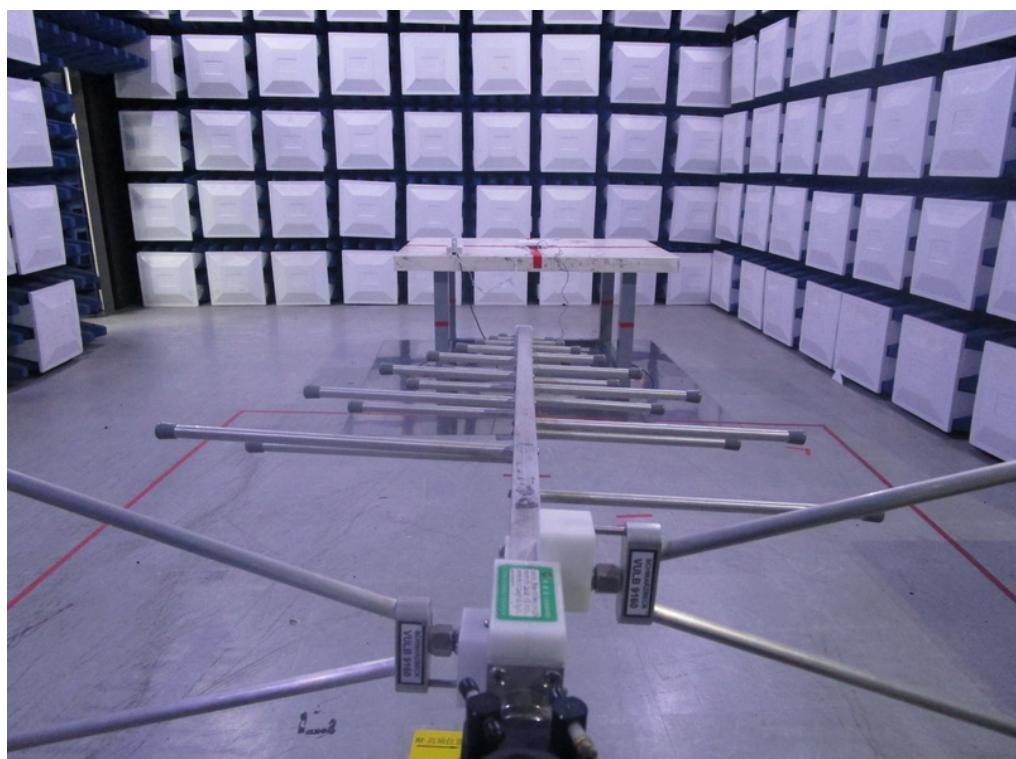
Radiated Emissions Test Photos

9 kHz to 30 MHz



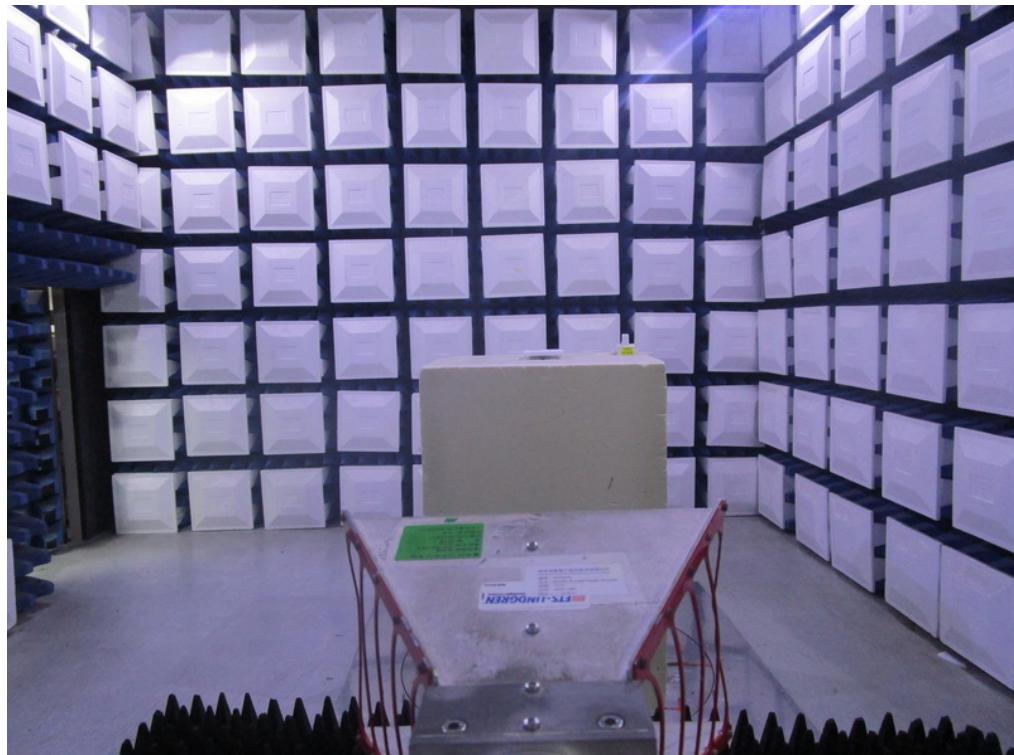
Radiated Emissions Test Photos

30 MHz to 1 GHz



Radiated Emissions Test Photos

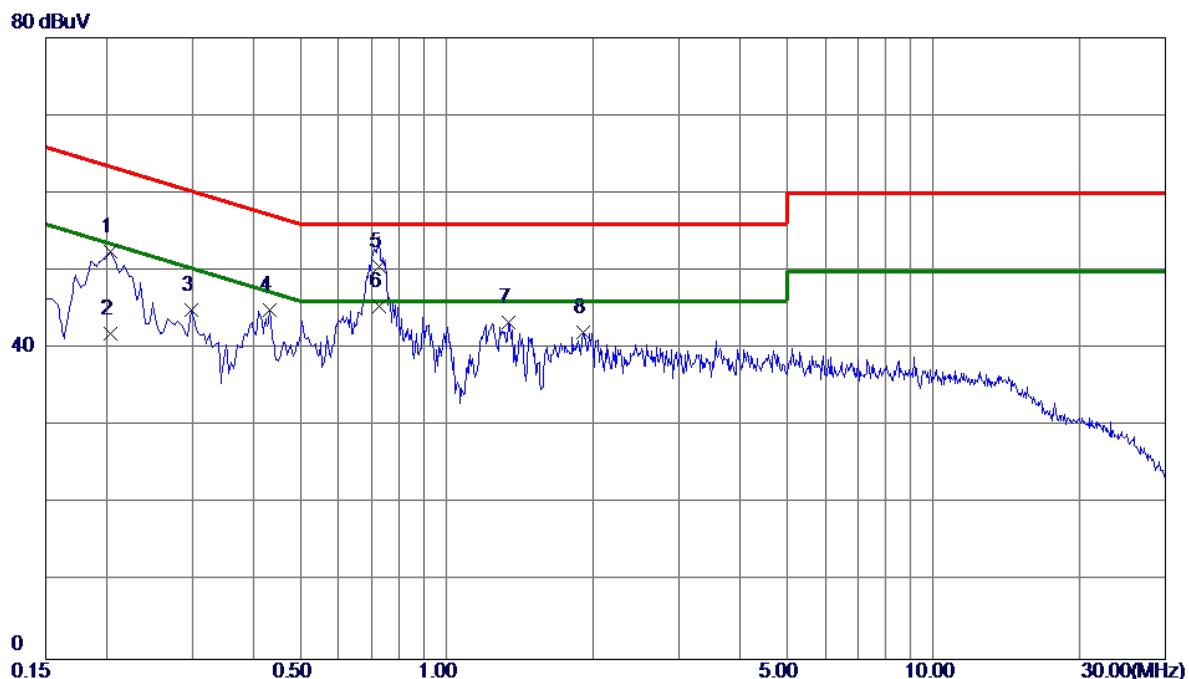
Above 1 GHz



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode:	TX N20 MODE CHANNEL 40
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Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.2040	42.63	9.82	52.45	63.45	-11.00	Peak	
2	0.2040	32.10	9.82	41.92	53.45	-11.53	AVG	
3	0.2985	35.21	9.82	45.03	60.28	-15.25	Peak	
4	0.4335	35.16	9.80	44.96	57.19	-12.23	Peak	
5	0.7260	40.70	9.88	50.58	56.00	-5.42	QP	
6 *	0.7260	35.60	9.88	45.48	46.00	-0.52	AVG	
7	1.3380	33.46	9.94	43.40	56.00	-12.60	Peak	
8	1.9050	32.15	9.99	42.14	56.00	-13.86	Peak	

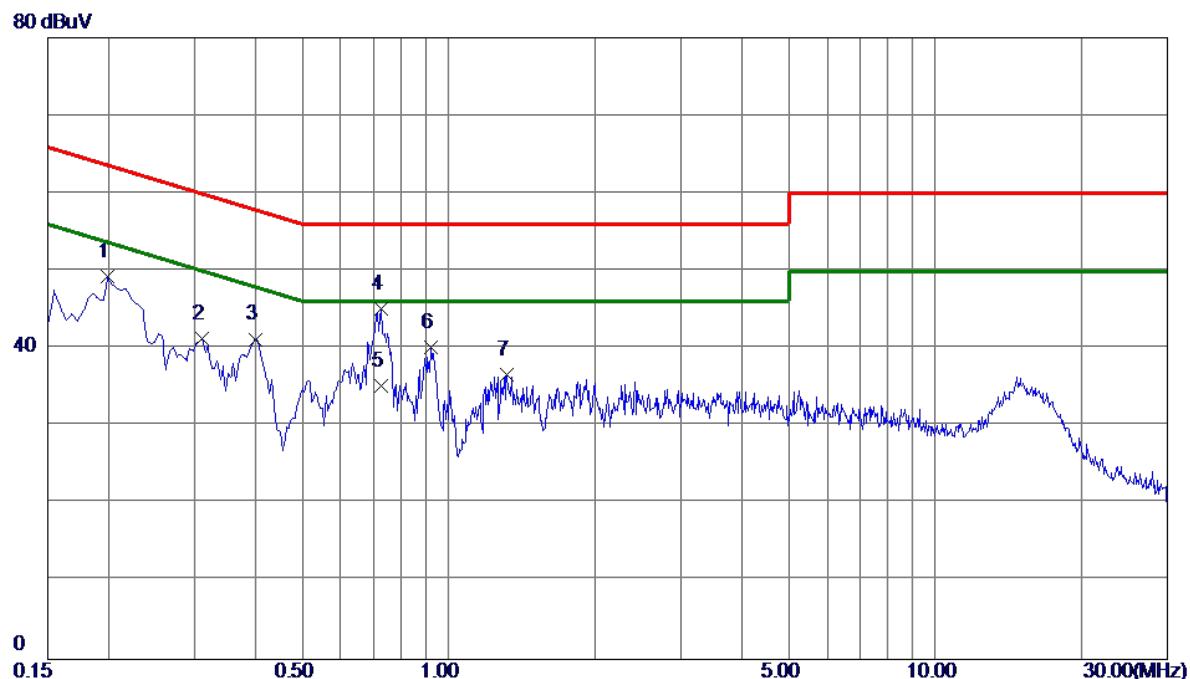
Note: The test result has included the cable loss.

REMARKS:

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

Test Mode:	TX N20 MODE CHANNEL 40
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Neutral



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.1995	39.29	9.91	49.20	63.63	-14.43	Peak	
2	0.3120	31.32	9.93	41.25	59.92	-18.67	Peak	
3	0.4020	31.25	9.95	41.20	57.81	-16.61	Peak	
4	0.7260	35.04	10.05	45.09	56.00	-10.91	Peak	
5 *	0.7260	25.14	10.05	35.19	46.00	-10.81	AVG	
6	0.9195	30.05	10.10	40.15	56.00	-15.85	Peak	
7	1.3200	26.55	10.14	36.69	56.00	-19.31	Peak	

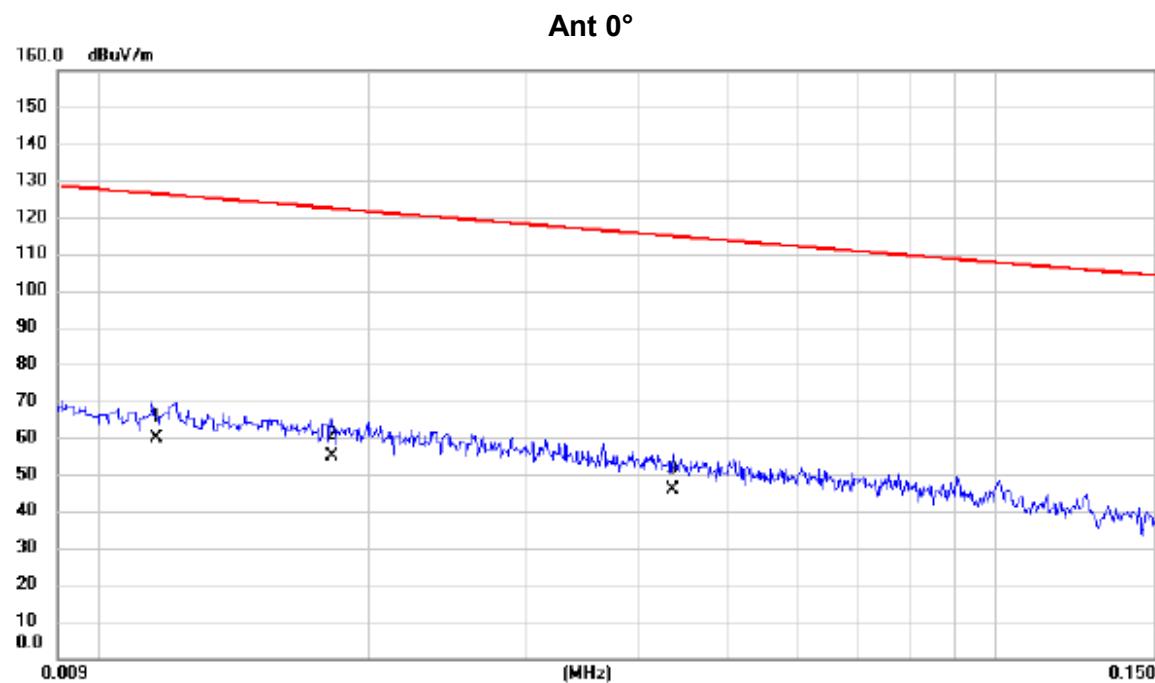
Note: The test result has included the cable loss.

REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode:	TX n(HT20) MODE CHANNEL 157
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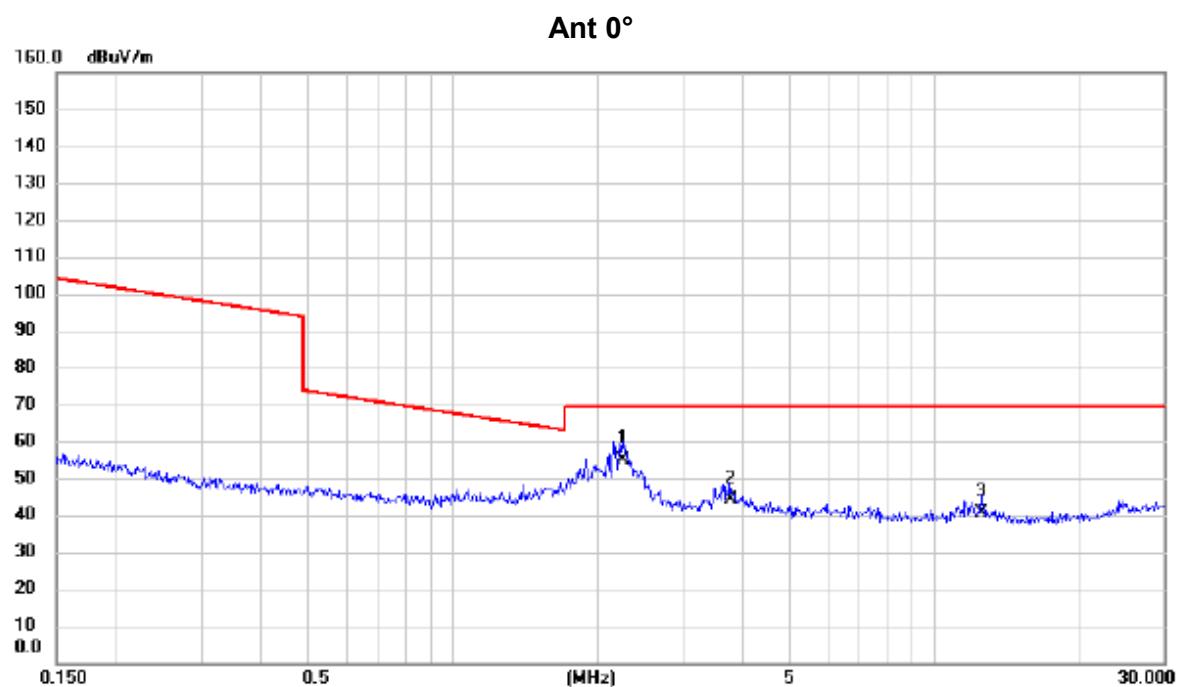


No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	0.0116	38.62	21.20	59.82	126.32	-66.50	AVG	
2		0.0182	34.86	20.27	55.13	122.40	-67.27	AVG	
3		0.0436	25.99	19.64	45.63	114.82	-69.19	AVG	

REMARKS:

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

Test Mode: TX n(HT20) MODE CHANNEL 157



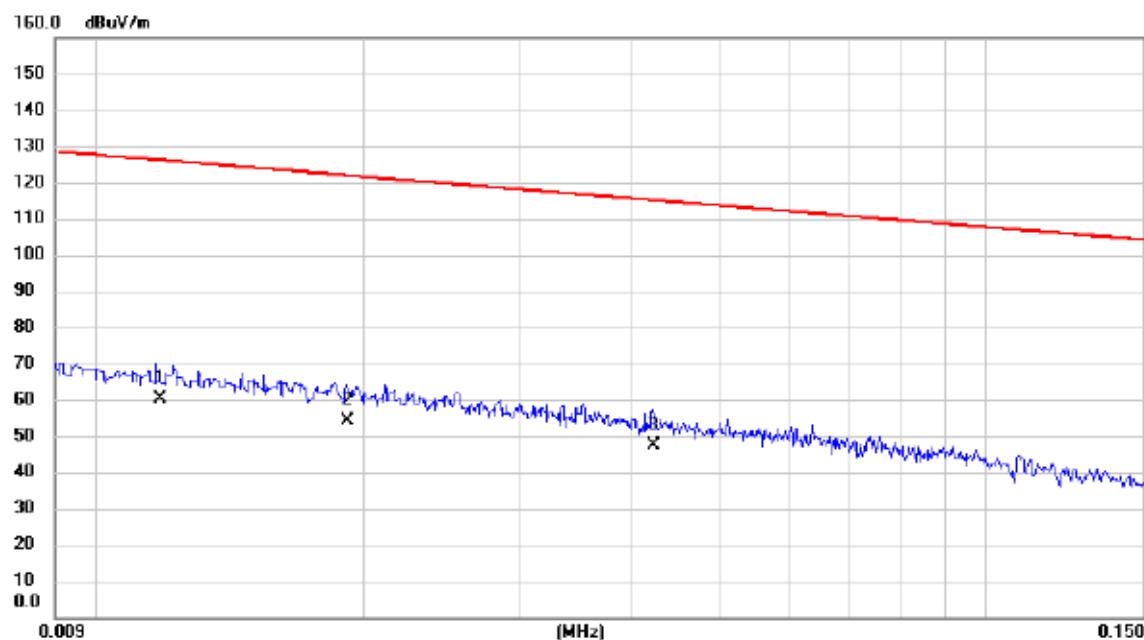
No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level dBuV	Factor dB	ment dBuV/m				
1	*	2.2486	38.12	16.97	55.09	69.54	-14.45	QP	
2		3.7594	28.31	15.93	44.24	69.54	-25.30	QP	
3		12.5156	26.11	14.55	40.66	69.54	-28.88	QP	

REMARKS:

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

Test Mode: TX n(HT20) MODE CHANNEL 157

Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0118	39.12	21.17	60.29	126.17	-65.88	AVG	
2		0.0192	34.11	20.13	54.24	121.94	-67.70	AVG	
3		0.0423	27.88	19.66	47.54	115.08	-67.54	AVG	

REMARKS:

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

Test Mode: TX n(HT20) MODE CHANNEL 157

Ant 90°



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		0.2644	24.62	17.05	41.67	99.16	-57.49	AVG
2	*	2.2606	28.76	16.96	45.72	69.54	-23.82	QP
3		3.6806	24.39	16.00	40.39	69.54	-29.15	QP

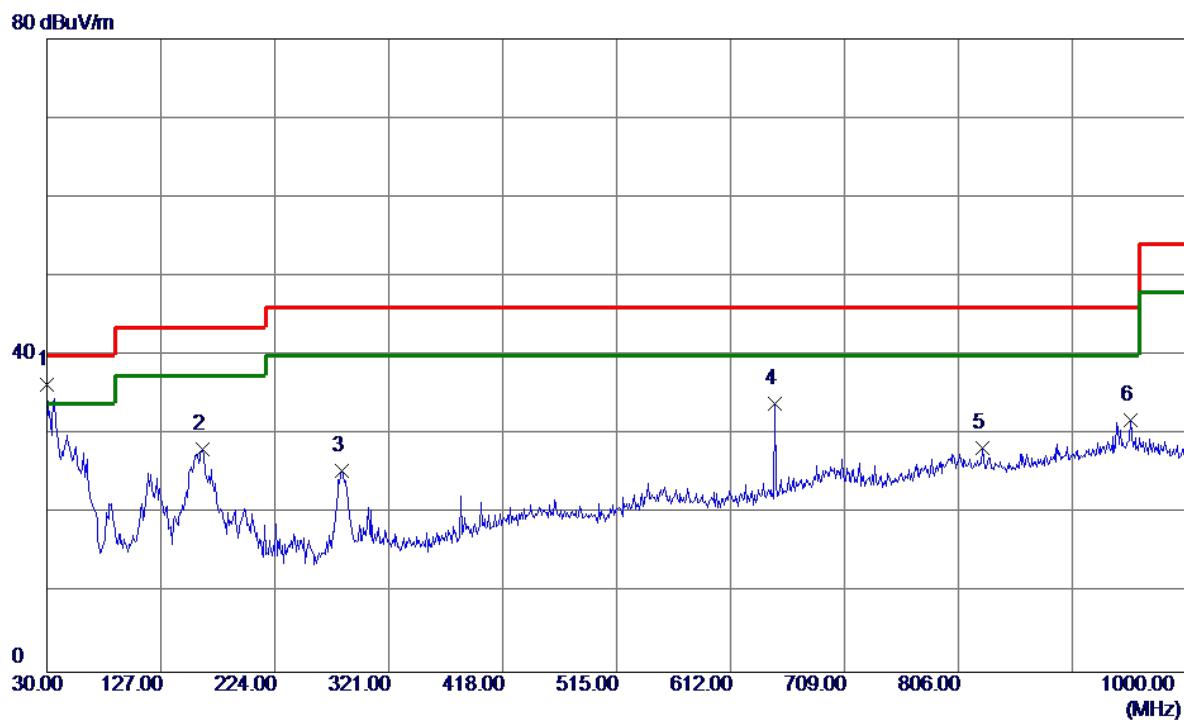
REMARKS:

- (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 n(HT20) MODE CHANNEL 157
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Vertical



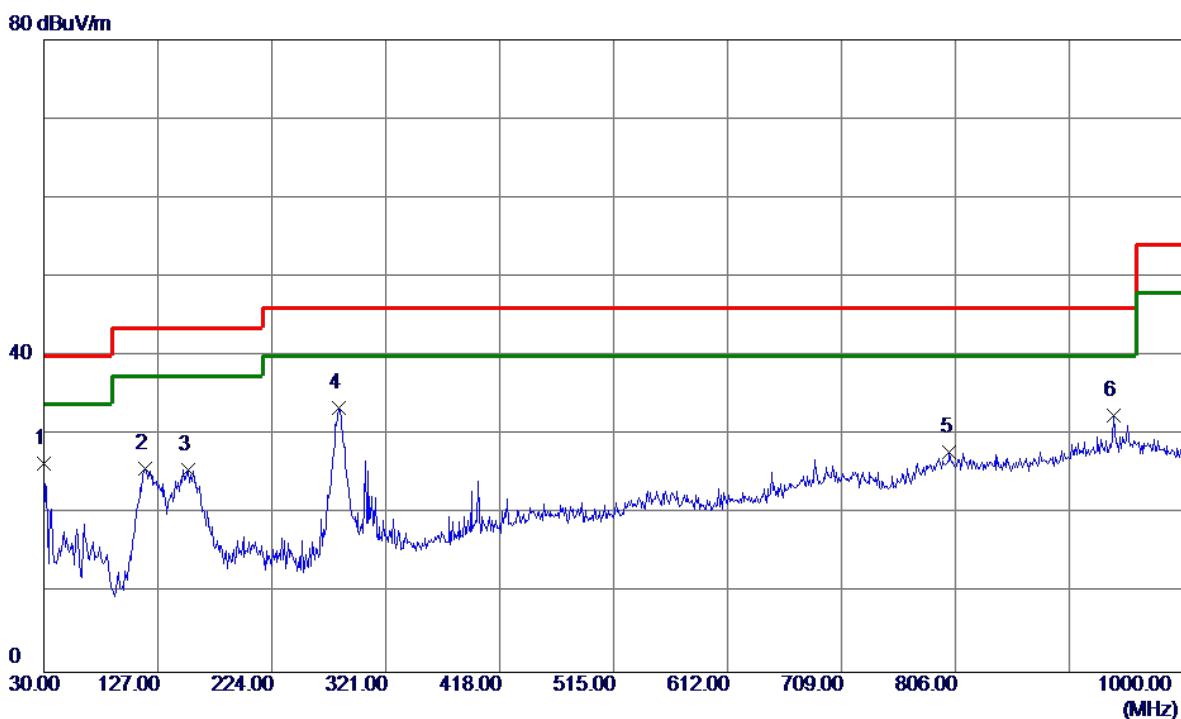
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	30.0000	51.35	-14.97	36.38	40.00	-3.62	Peak	
2	162.8900	38.91	-10.77	28.14	43.50	-15.36	Peak	
3	281.2300	36.72	-11.29	25.43	46.00	-20.57	Peak	
4	649.8300	39.09	-5.18	33.91	46.00	-12.09	Peak	
5	826.3700	29.82	-1.45	28.37	46.00	-17.63	Peak	
6	952.4700	30.43	1.35	31.78	46.00	-14.22	Peak	

REMARKS:

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

Test Mode:	TX n(HT20) MODE CHANNEL 157
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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	30.0000	41.42	-14.97	26.45	40.00	-13.55	Peak	
2	116.3300	41.05	-15.27	25.78	43.50	-17.72	Peak	
3	153.1900	36.76	-11.21	25.55	43.50	-17.95	Peak	
4 *	281.2300	44.78	-11.29	33.49	46.00	-12.51	Peak	
5	801.1500	28.83	-1.06	27.77	46.00	-18.23	Peak	
6	940.8300	31.39	1.04	32.43	46.00	-13.57	Peak	

REMARKS:

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

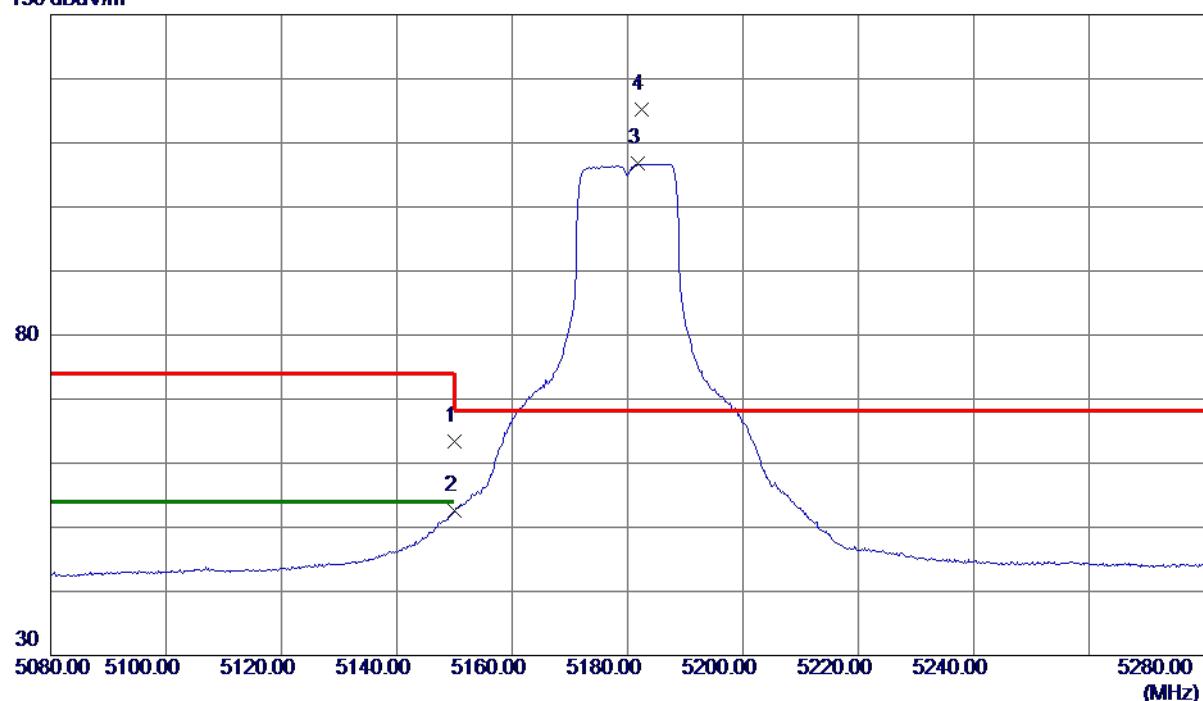
APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

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

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5150.0000	48.52	14.91	63.43	74.00	-10.57	Peak	
2	5150.0000	37.69	14.91	52.60	54.00	-1.40	AVG	
3	5181.8000	91.73	14.98	106.71	999.00	-892.29	AVG	No Limit
4 *	5182.4000	100.28	14.98	115.26	68.30	46.96	Peak	No Limit

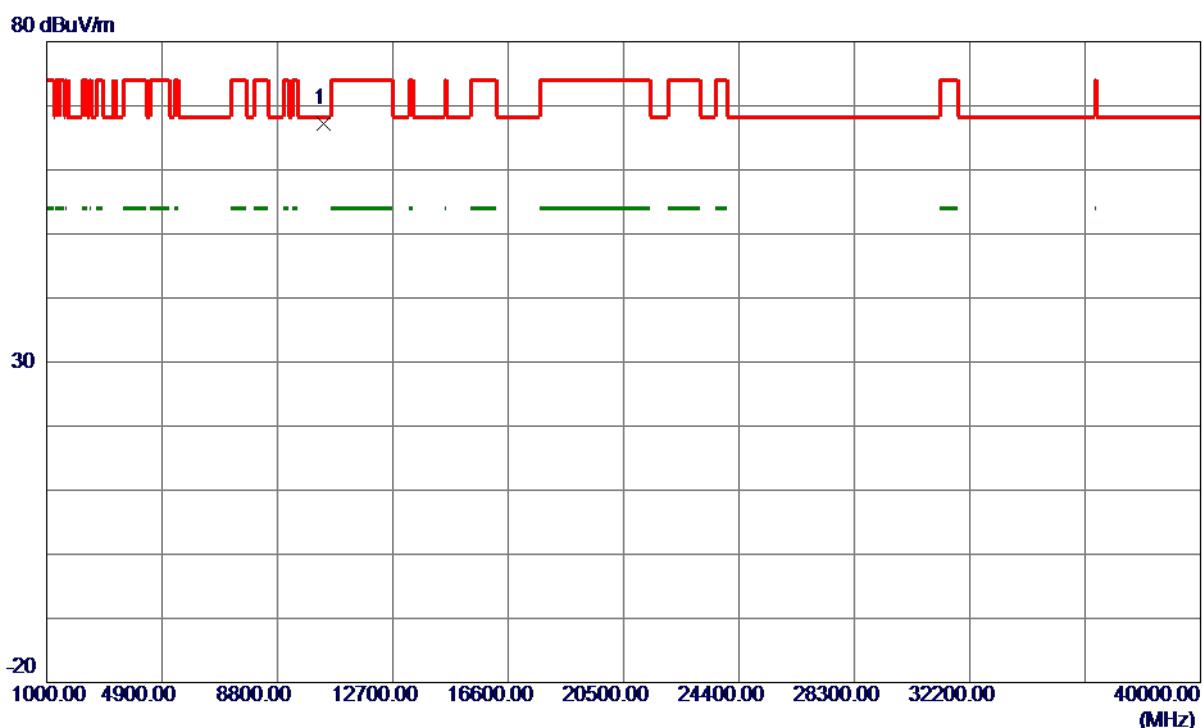
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10358.5000	54.40	12.89	67.29	68.30	-1.01	Peak	

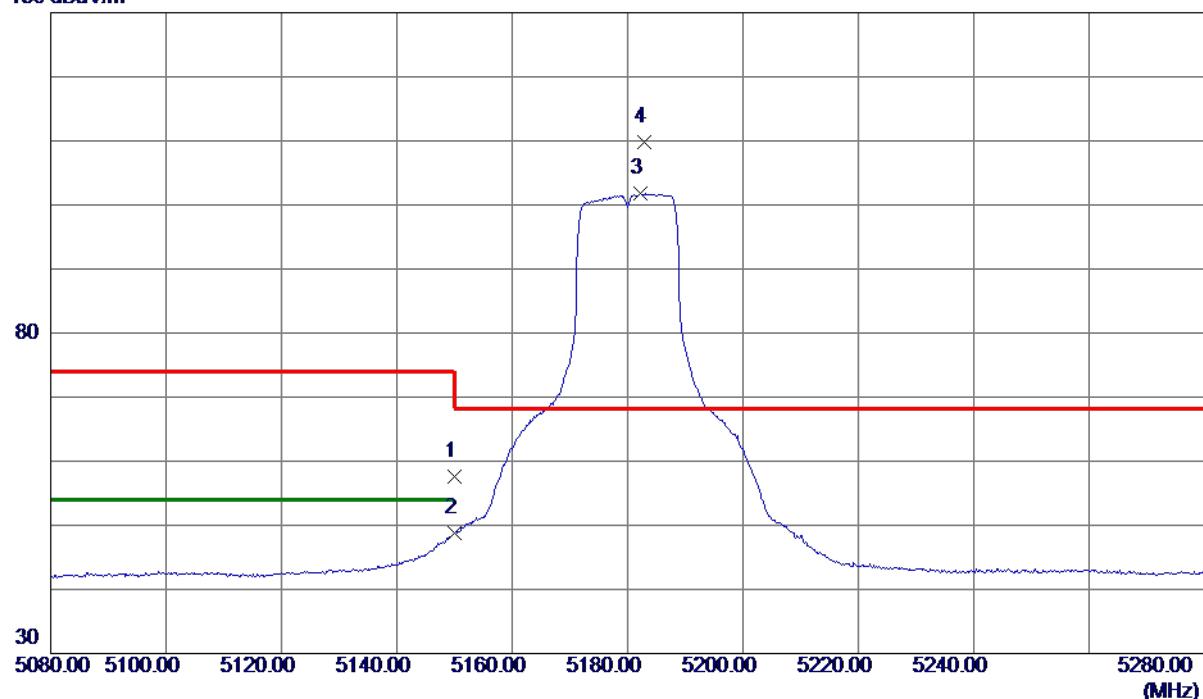
REMARKS:

- (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	42.62	14.91	57.53	74.00	-16.47	Peak	
2	5150.0000	33.80	14.91	48.71	54.00	-5.29	AVG	
3	5182.2000	86.83	14.98	101.81	999.00	-897.19	AVG	No Limit
4 *	5182.8000	94.81	14.98	109.79	68.30	41.49	Peak	No Limit

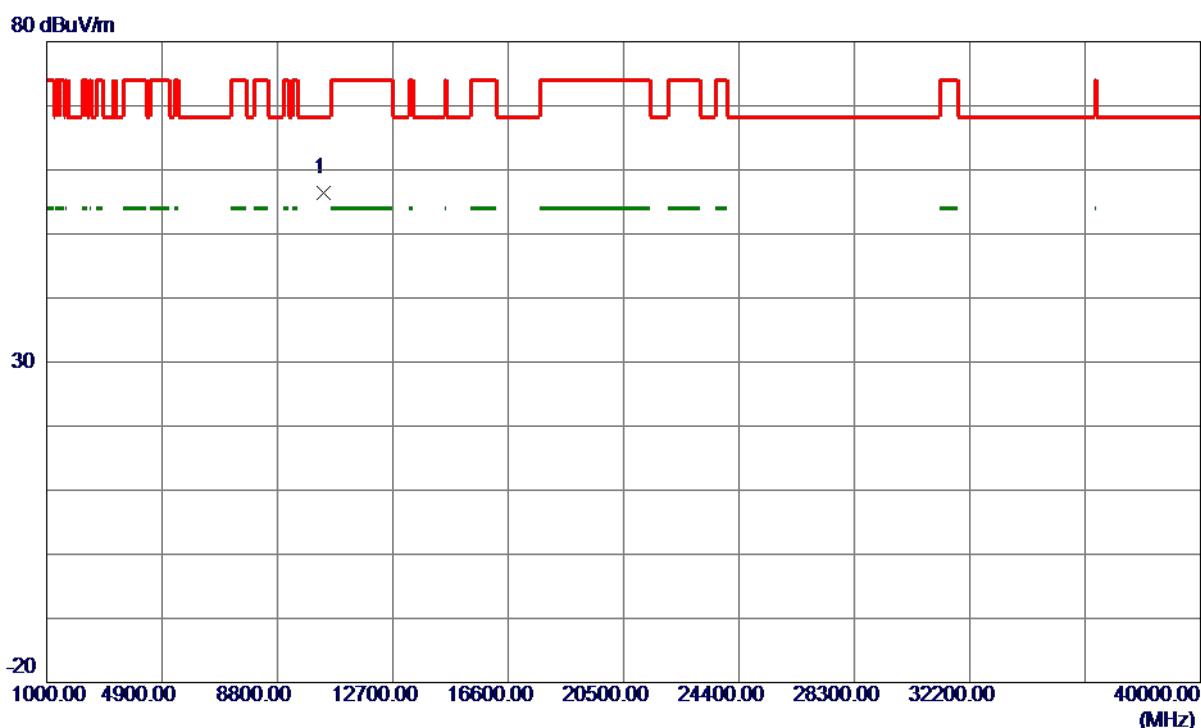
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10371.2500	43.46	12.91	56.37	68.30	-11.93	Peak	

REMARKS:

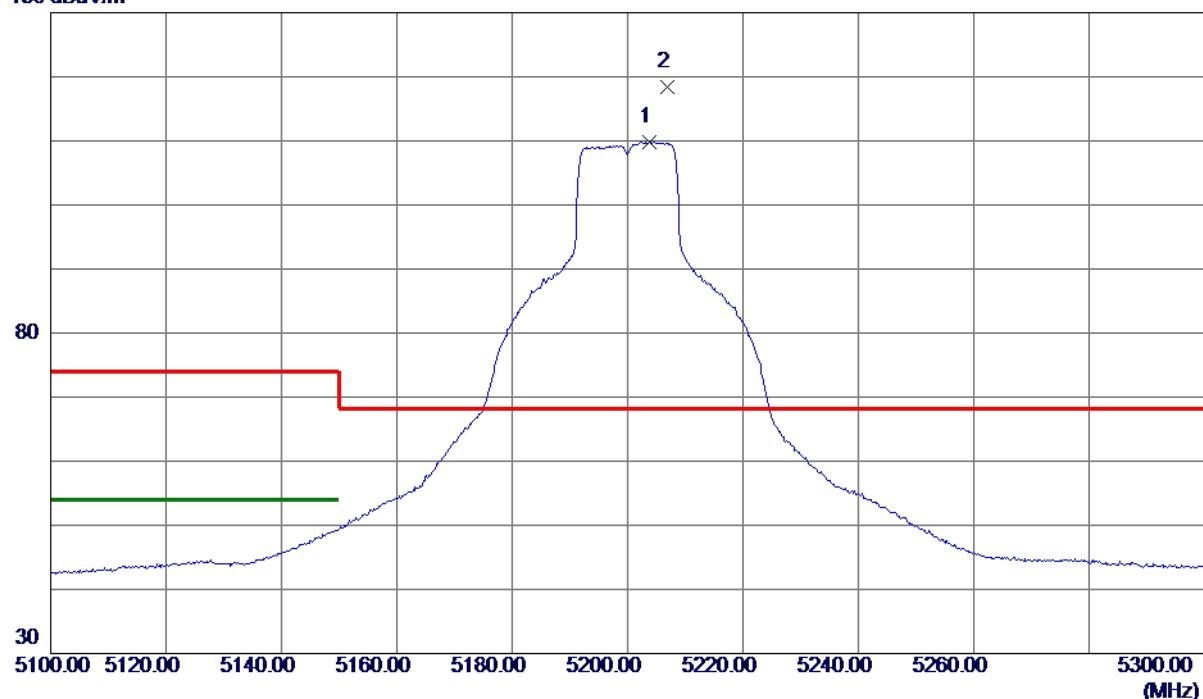
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

130 dBuV/m



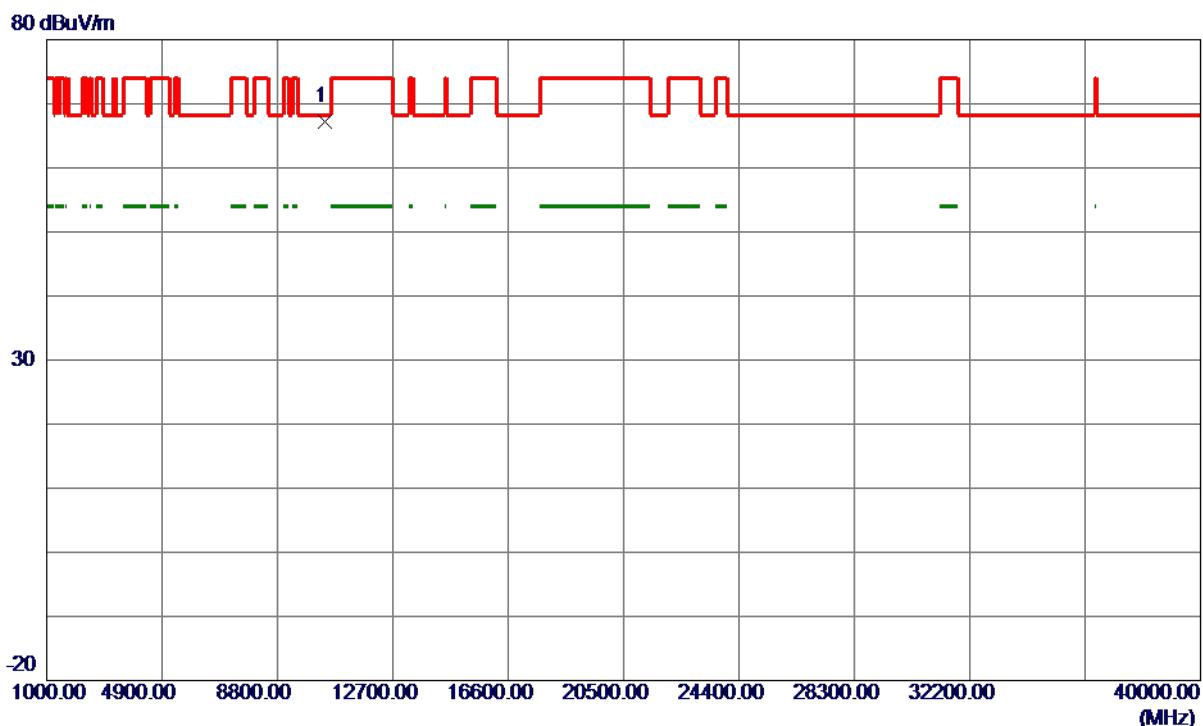
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5203.8000	94.86	15.02	109.88	999.00	-889.12	AVG	No Limit
2 *	5206.8000	103.39	15.03	118.42	68.30	50.12	Peak	No Limit

REMARKS:

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

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10399.1000	54.23	12.97	67.20	68.30	-1.10	Peak	

REMARKS:

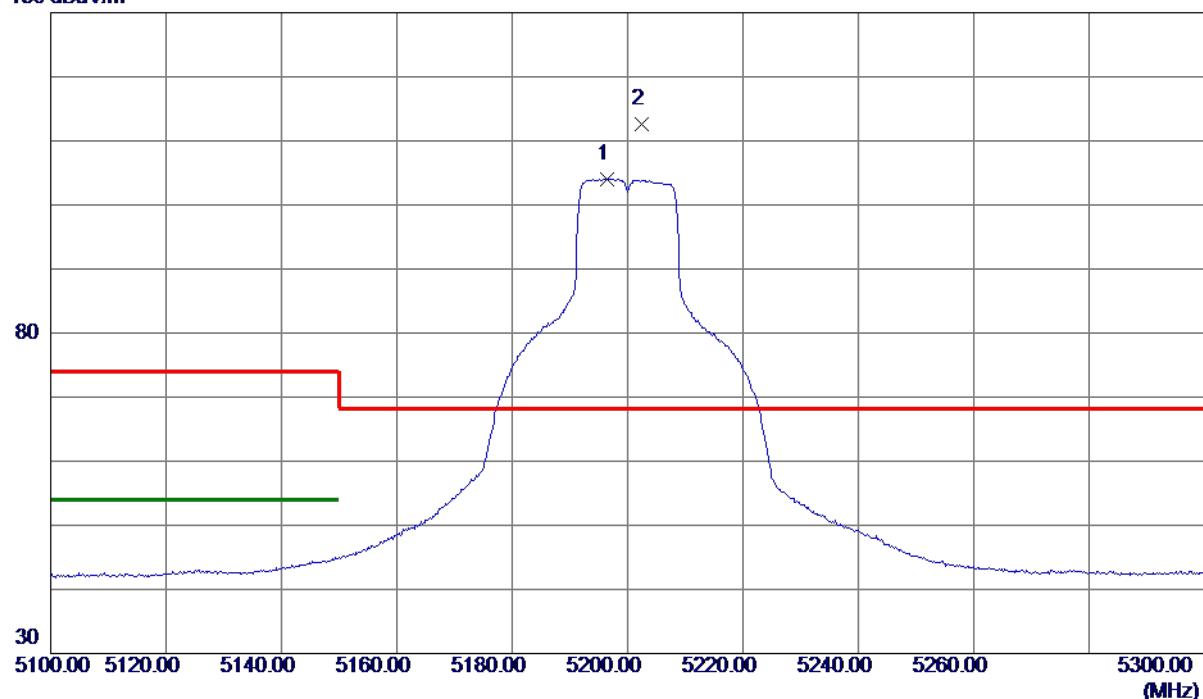
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

130 dBuV/m



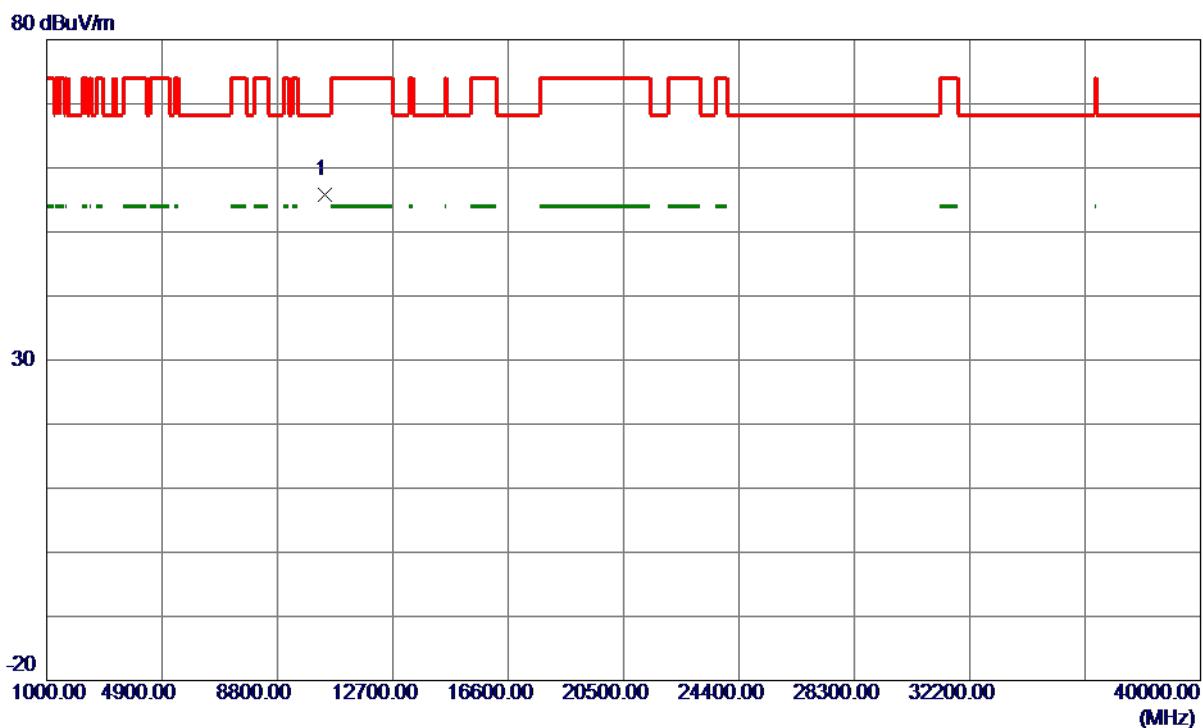
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5196.4000	89.08	15.01	104.09	999.00	-894.91	AVG	No Limit
2 *	5202.4000	97.67	15.02	112.69	68.30	44.39	Peak	No Limit

REMARKS:

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

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

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10401.000	42.78	12.97	55.75	68.30	-12.55	Peak	

REMARKS:

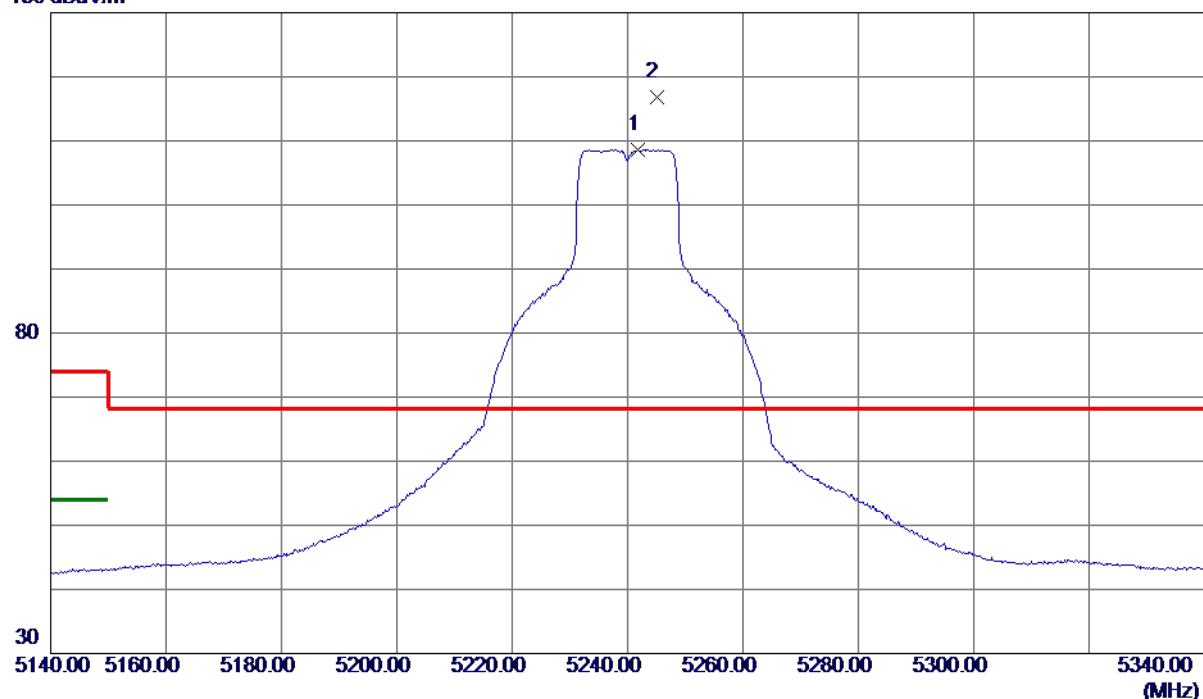
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-1_TX A Mode 5240 MHz
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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	5241.8000	93.59	15.10	108.69	999.00	-890.31	AVG	No Limit
2 *	5245.0000	101.77	15.11	116.88	68.30	48.58	Peak	No Limit

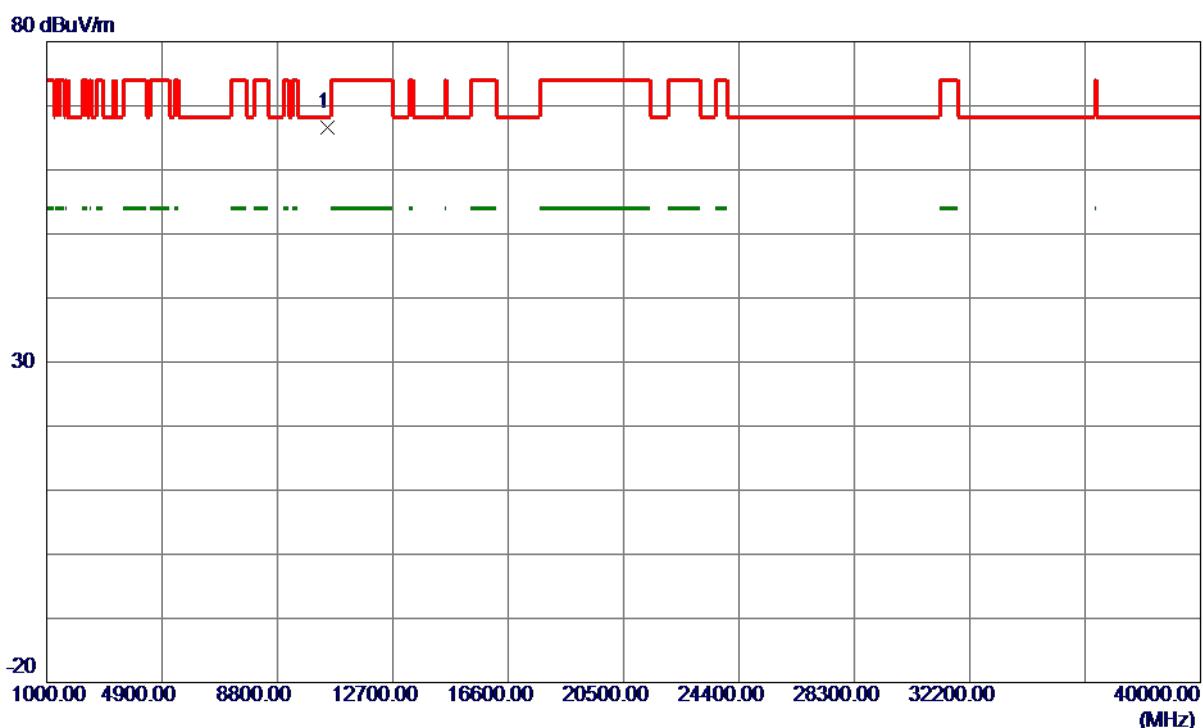
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10482.3500	53.42	13.14	66.56	68.30	-1.74	Peak	

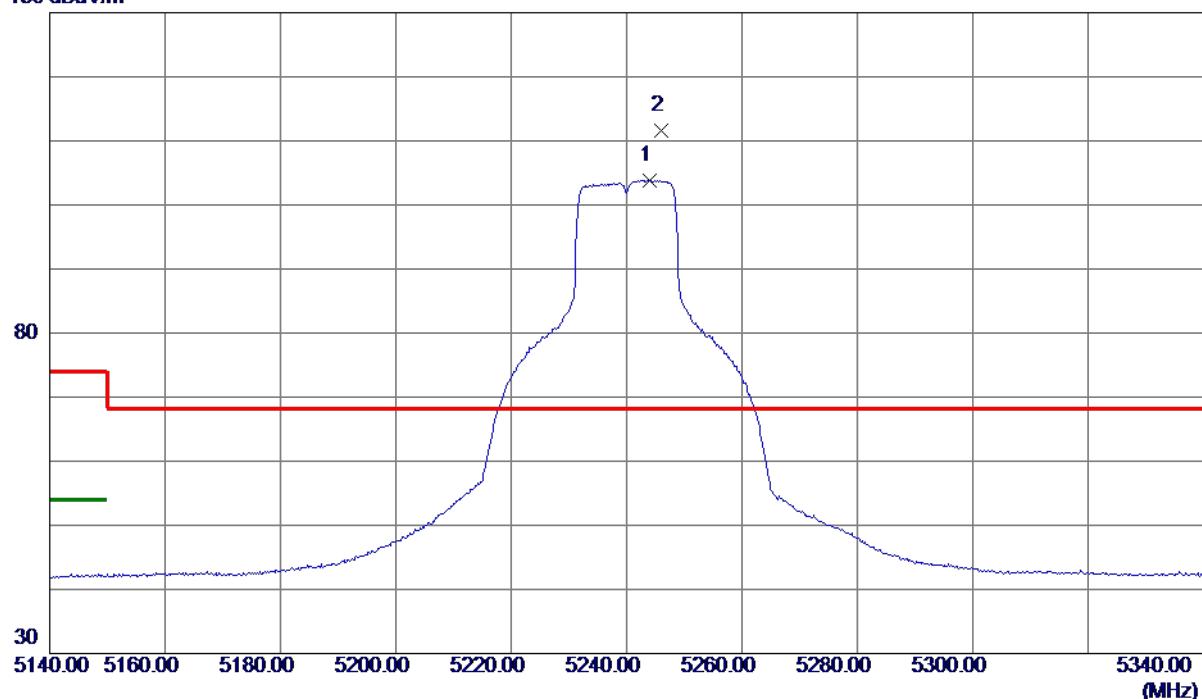
REMARKS:

- (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.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5244.0000	88.71	15.11	103.82	999.00	-895.18	AVG	No Limit
2 *	5246.0000	96.55	15.11	111.66	68.30	43.36	Peak	No Limit

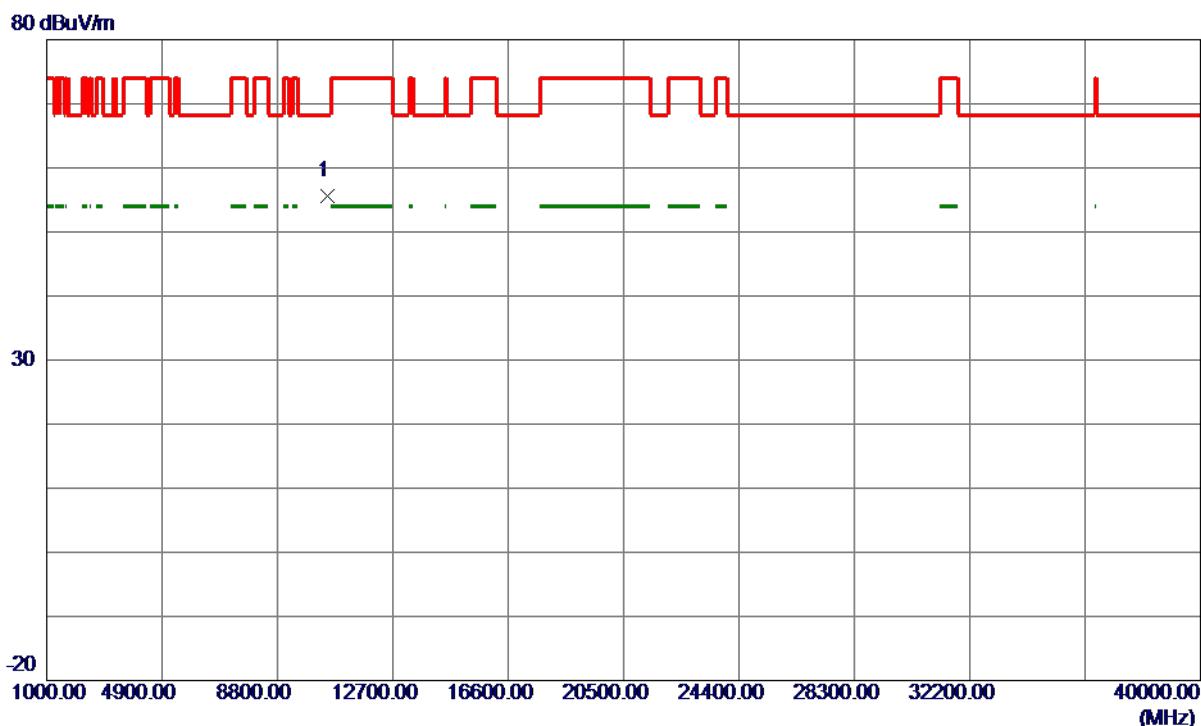
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10478.3000	42.40	13.13	55.53	68.30	-12.77	Peak	

REMARKS:

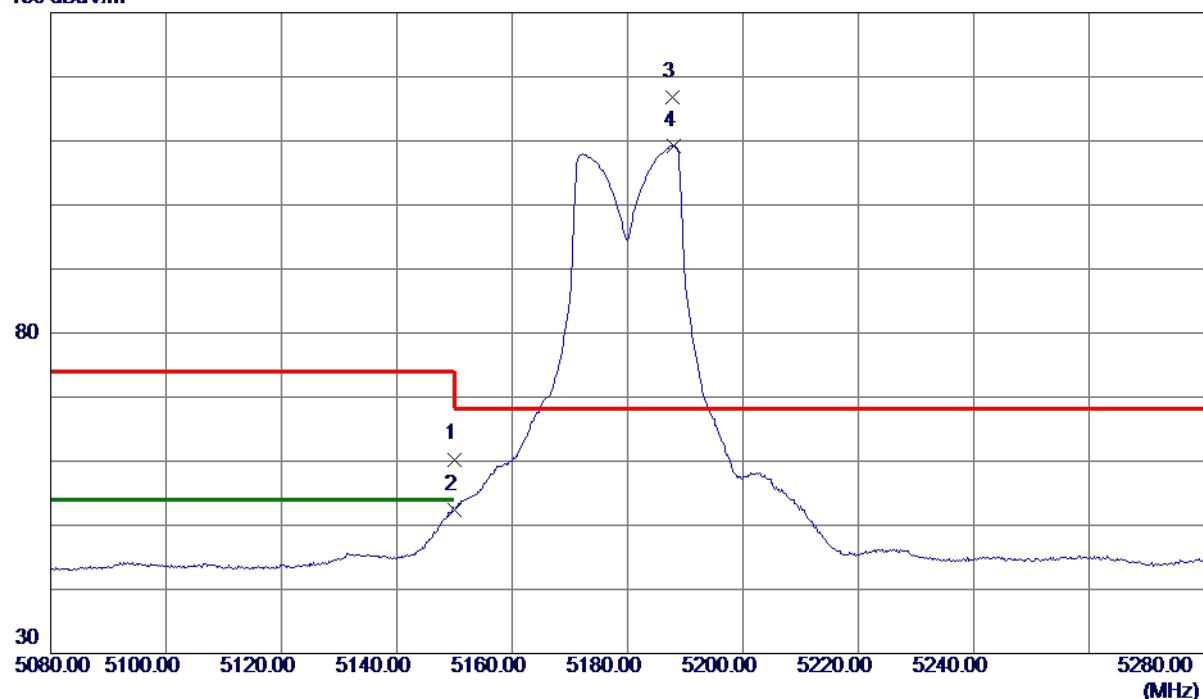
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz
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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	45.39	14.91	60.30	74.00	-13.70	Peak	
2	5150.0000	37.54	14.91	52.45	54.00	-1.55	AVG	
3 *	5187.8000	101.71	14.99	116.70	68.30	48.40	Peak	No Limit
4	5188.0000	94.22	14.99	109.21	999.00	-889.79	AVG	No Limit

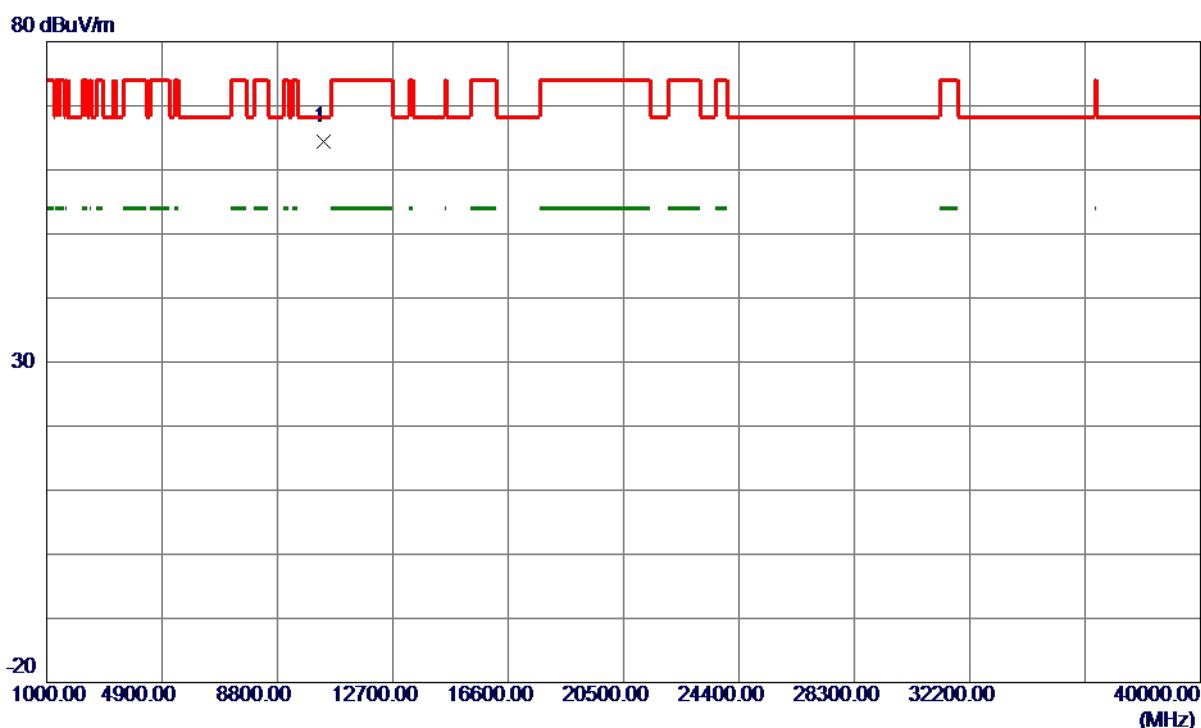
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10360.1000	51.55	12.89	64.44	68.30	-3.86	Peak	

REMARKS:

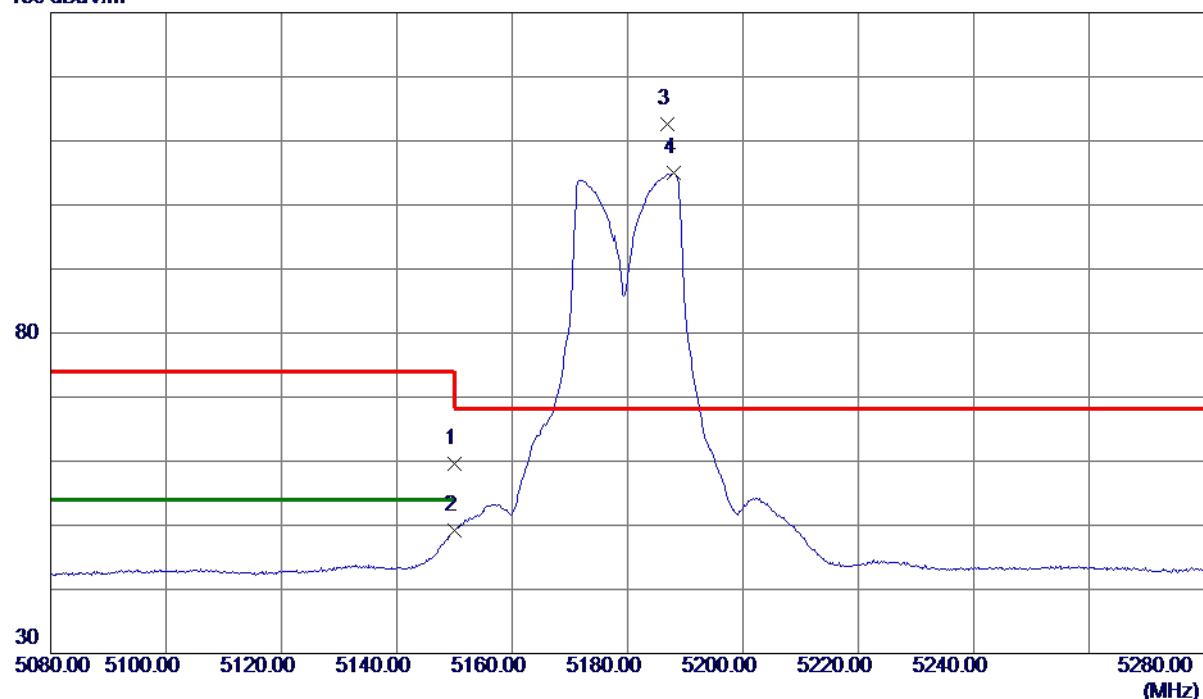
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz
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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	44.72	14.91	59.63	74.00	-14.37	Peak	
2	5150.0000	34.26	14.91	49.17	54.00	-4.83	AVG	
3 *	5186.8000	97.62	14.99	112.61	68.30	44.31	Peak	No Limit
4	5188.0000	90.00	14.99	104.99	999.00	-894.01	AVG	No Limit

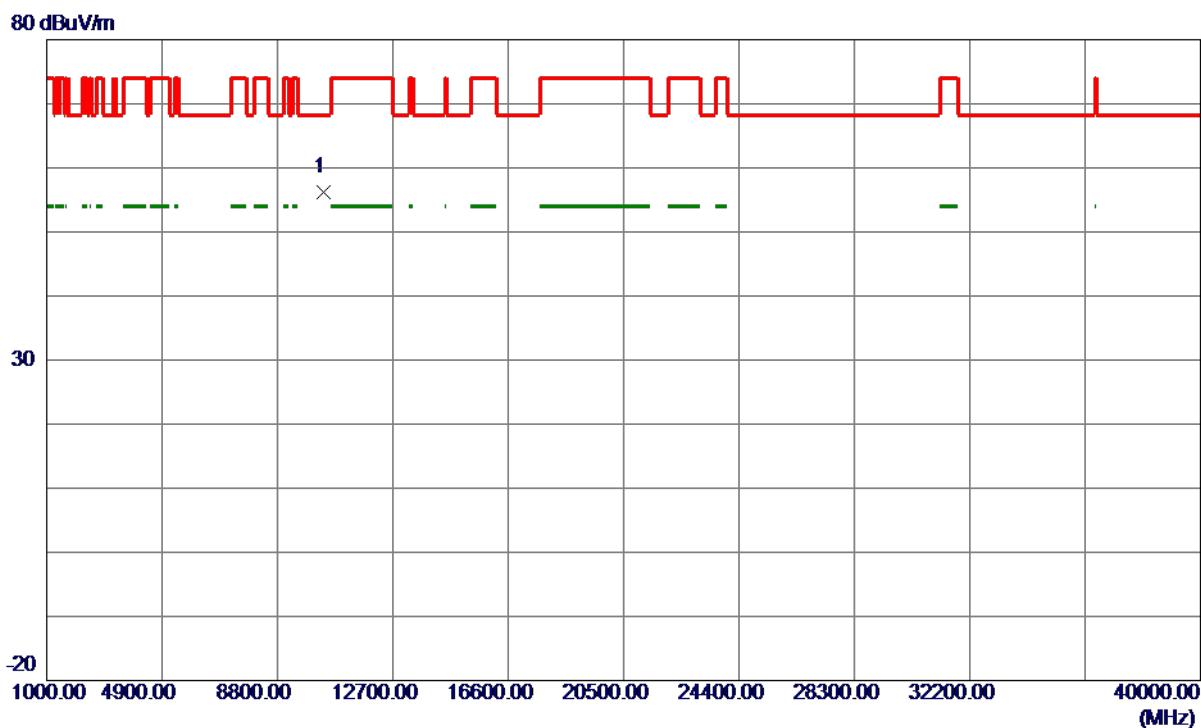
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5180 MHz
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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10359.5000	43.35	12.89	56.24	68.30	-12.06	Peak	

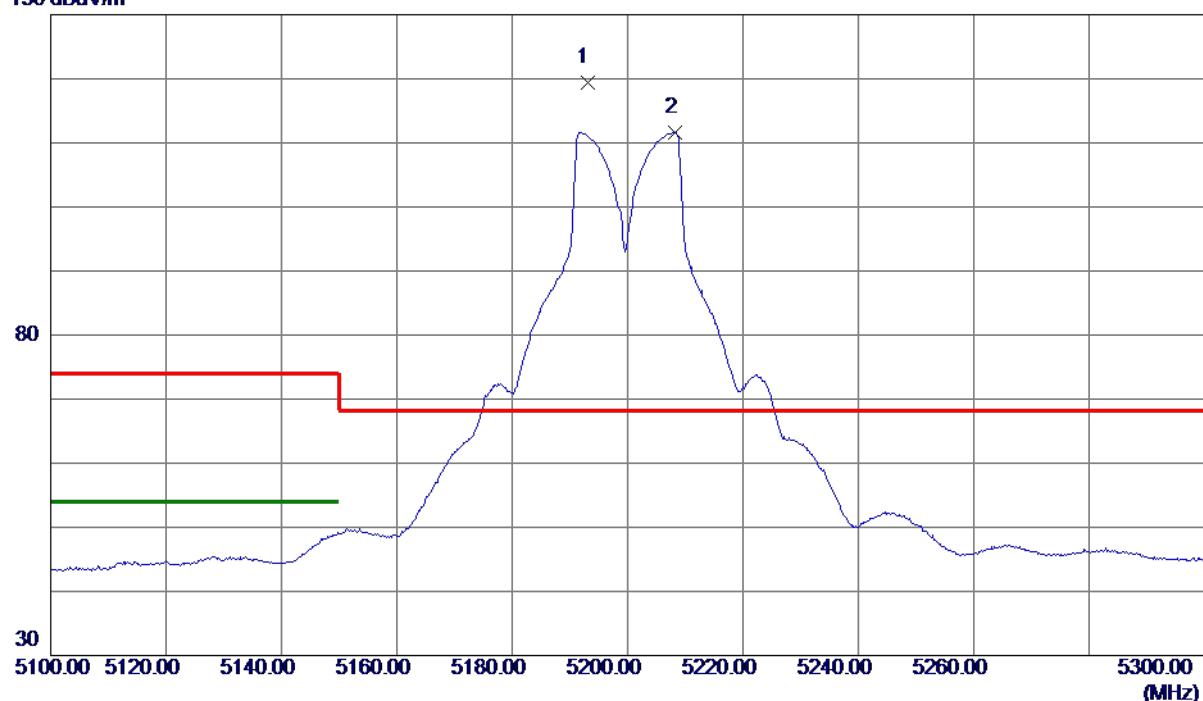
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz

Vertical

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5193.0000	104.38	15.00	119.38	68.30	51.08	Peak	No Limit
2	5208.2000	96.61	15.03	111.64	999.00	-887.36	AVG	No Limit

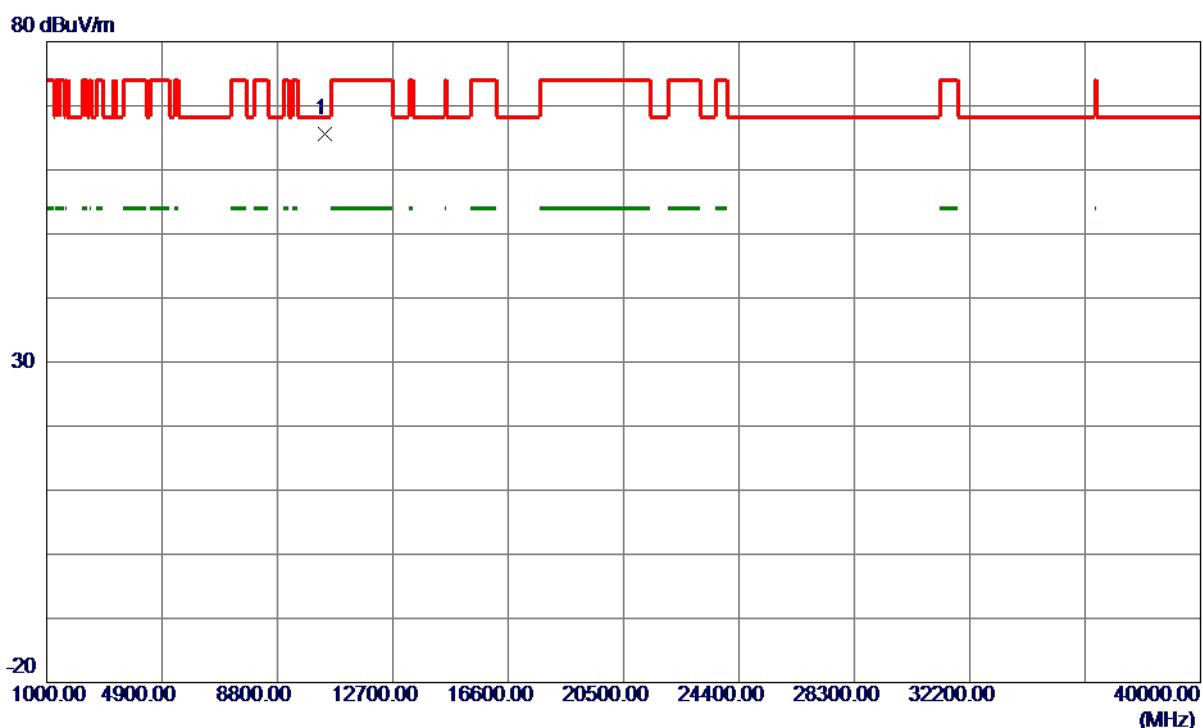
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10395.4500	52.66	12.96	65.62	68.30	-2.68	Peak	

REMARKS:

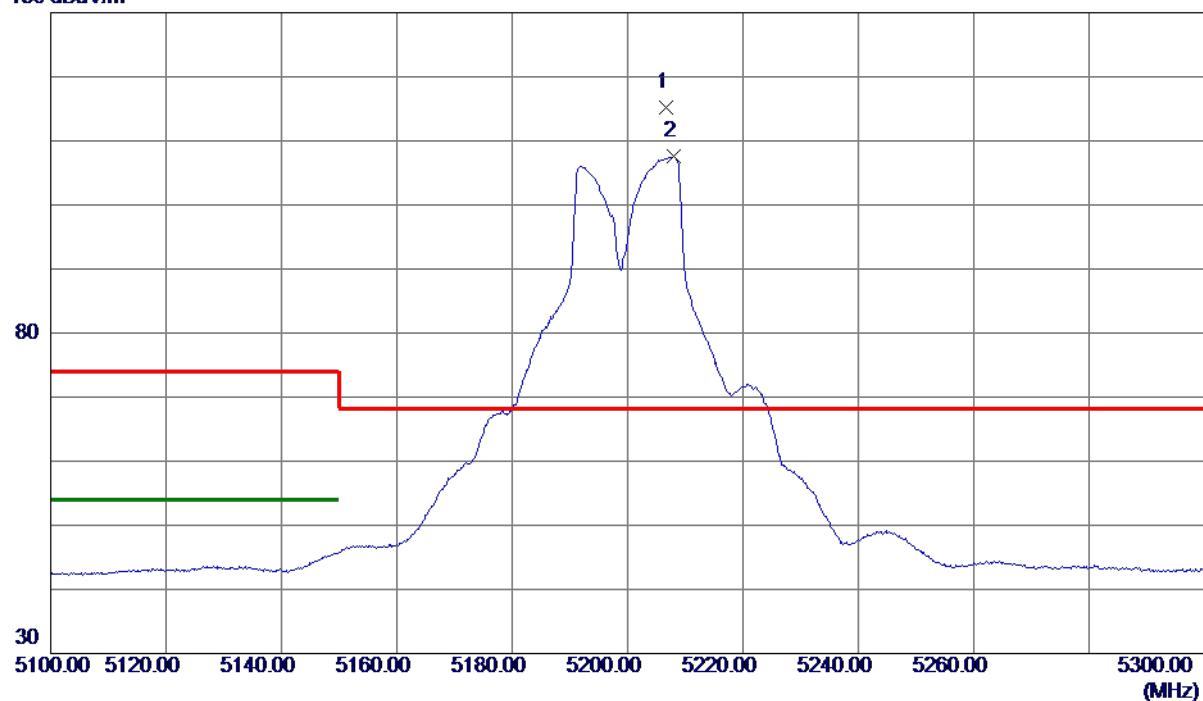
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz
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Horizontal

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5206.6000	100.11	15.03	115.14	68.30	46.84	Peak	No Limit
2	5208.0000	92.51	15.03	107.54	999.00	-891.46	AVG	No Limit

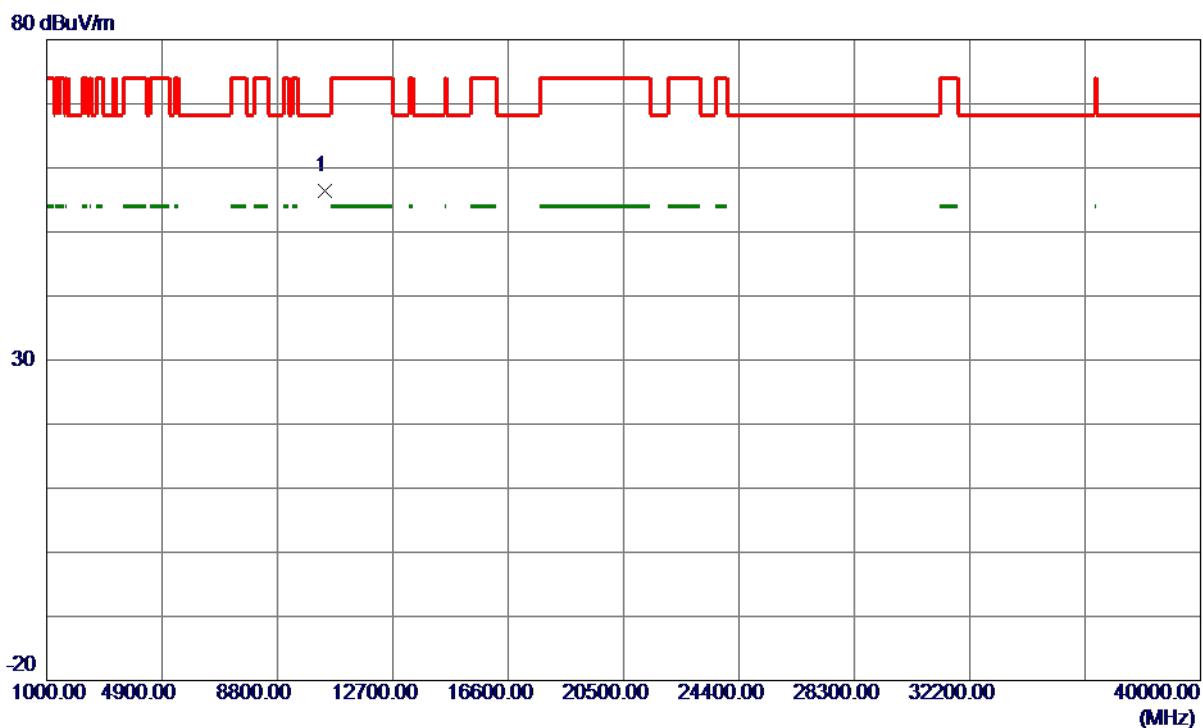
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5200 MHz
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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10406.8500	43.40	12.99	56.39	68.30	-11.91	Peak	

REMARKS:

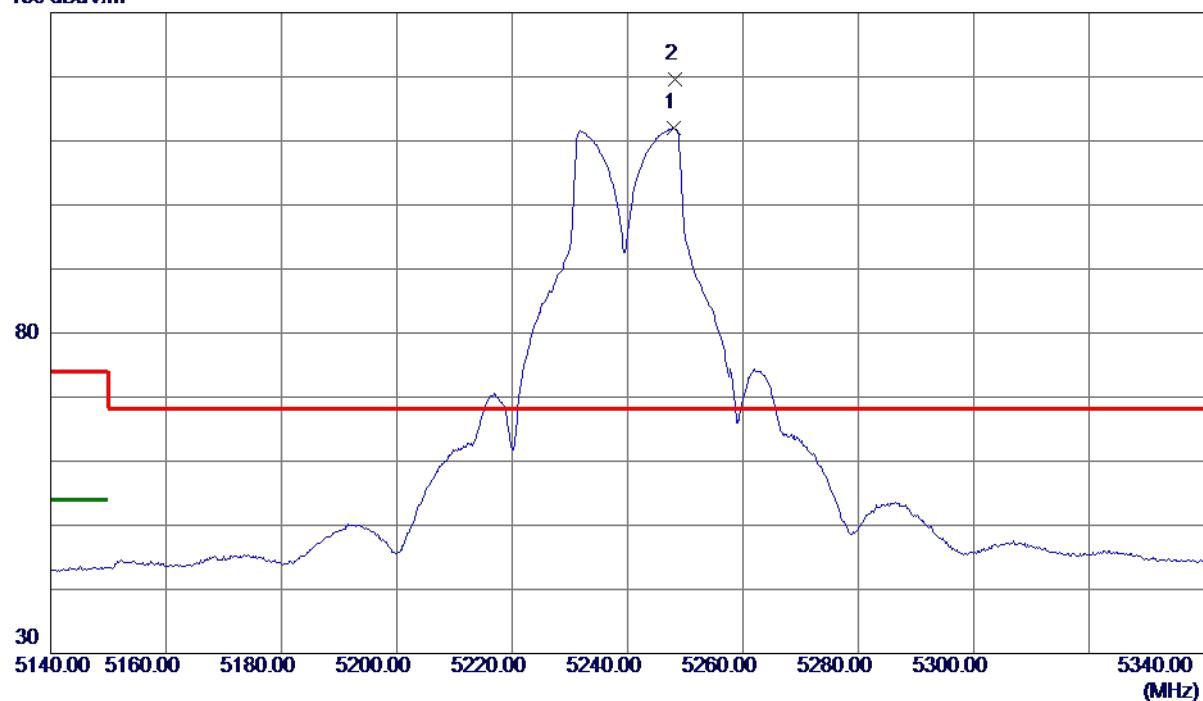
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz
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Vertical

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5248.0000	96.94	15.11	112.05	999.00	-886.95	AVG	No Limit
2 *	5248.2000	104.56	15.11	119.67	68.30	51.37	Peak	No Limit

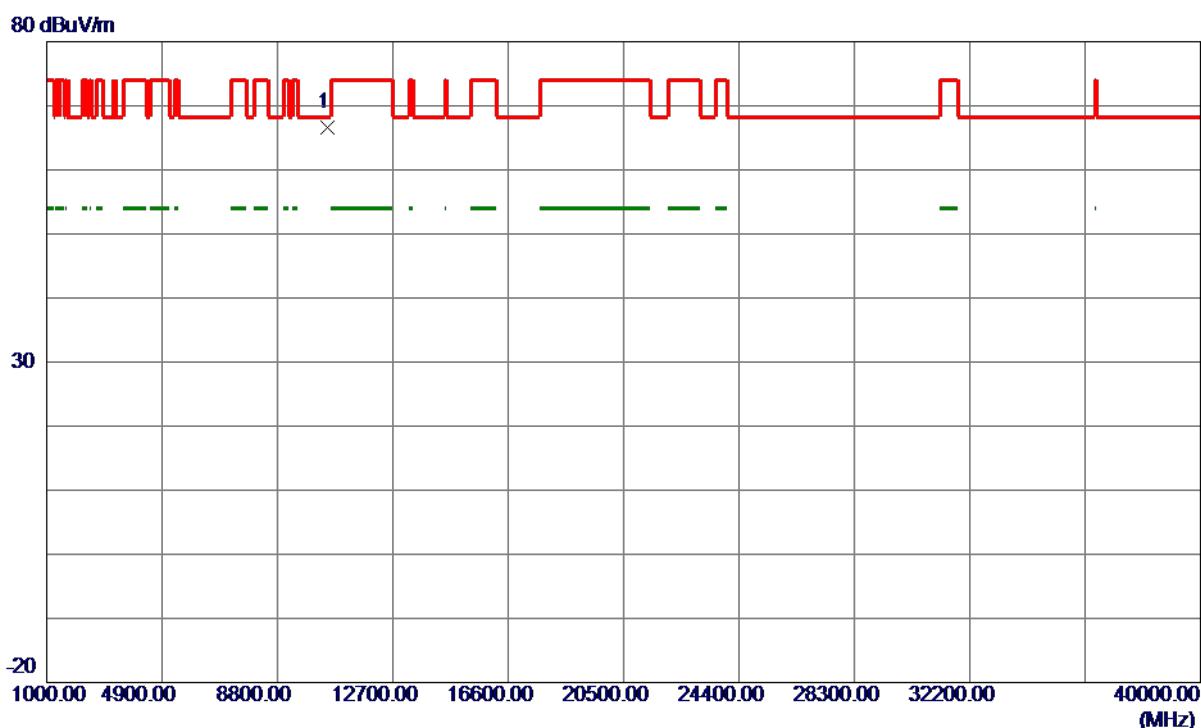
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10474.7000	53.41	13.12	66.53	68.30	-1.77	Peak	

REMARKS:

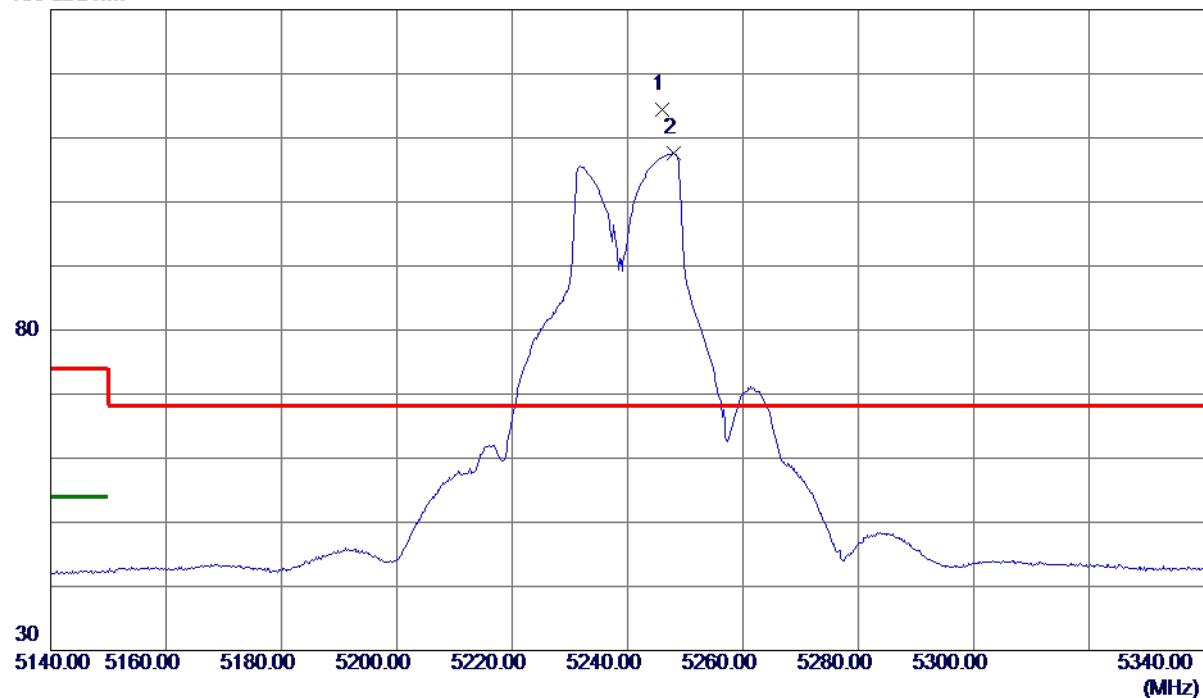
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz
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Horizontal

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5246.0000	99.27	15.11	114.38	68.30	46.08	Peak	No Limit
2	5248.0000	92.48	15.11	107.59	999.00	-891.41	AVG	No Limit

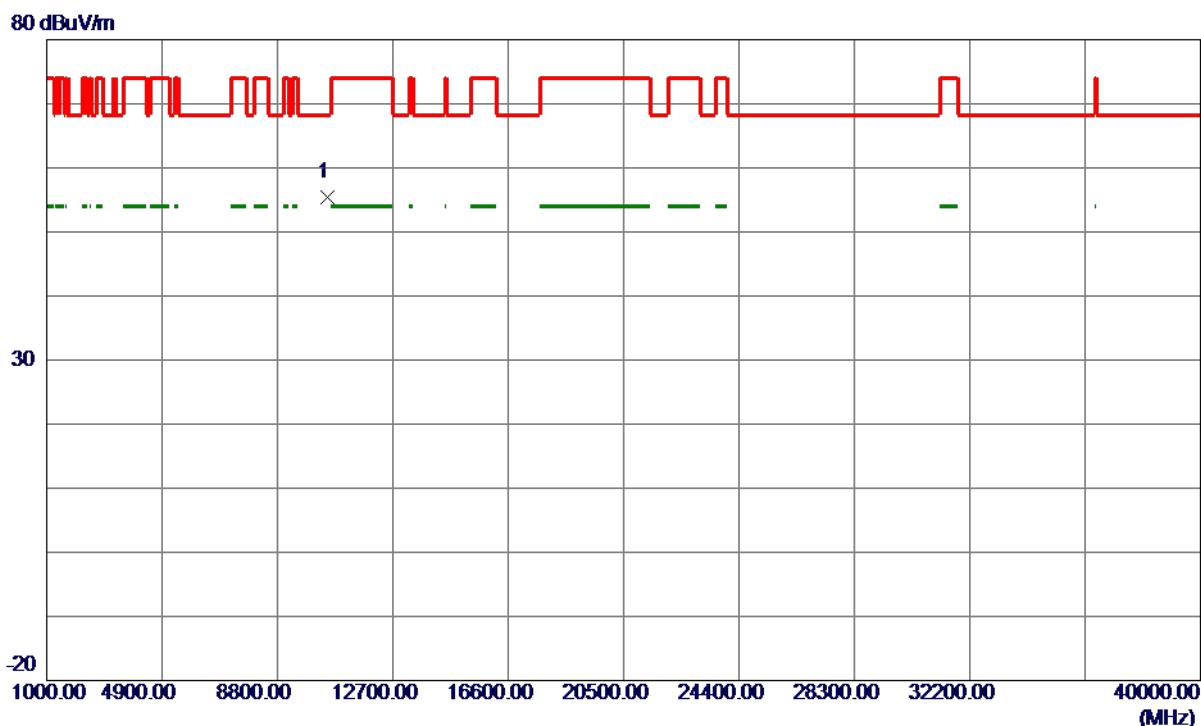
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT20) Mode 5240 MHz
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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10473.8000	42.36	13.12	55.48	68.30	-12.82	Peak	

REMARKS:

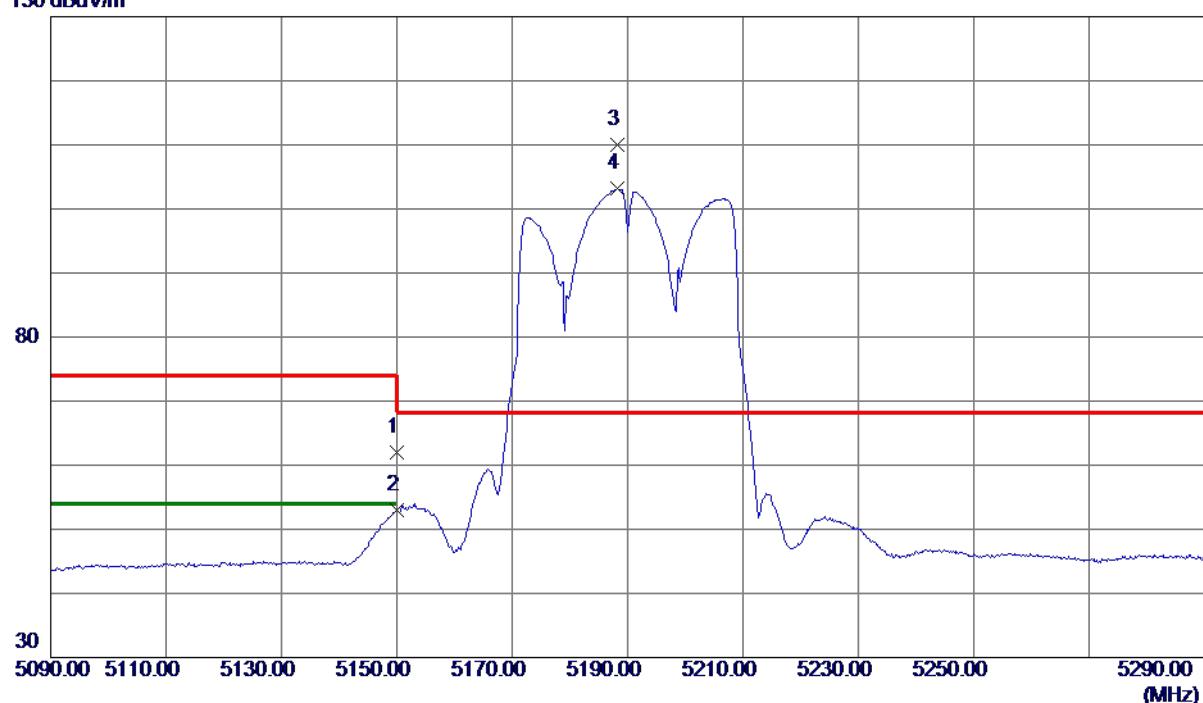
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz
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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	47.13	14.91	62.04	74.00	-11.96	Peak	
2	5150.0000	38.07	14.91	52.98	54.00	-1.02	AVG	
3 *	5188.2000	95.06	14.99	110.05	68.30	41.75	Peak	No Limit
4	5188.2000	88.21	14.99	103.20	999.00	-895.80	AVG	No Limit

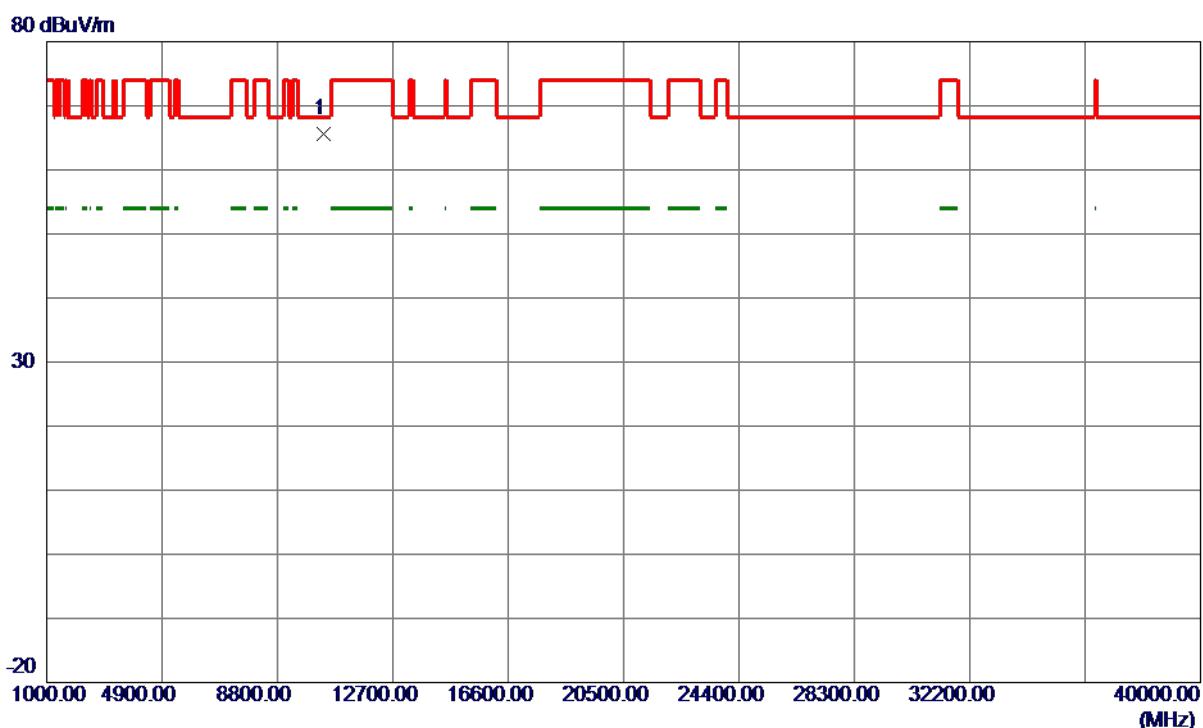
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10370.9500	52.64	12.91	65.55	68.30	-2.75	Peak	

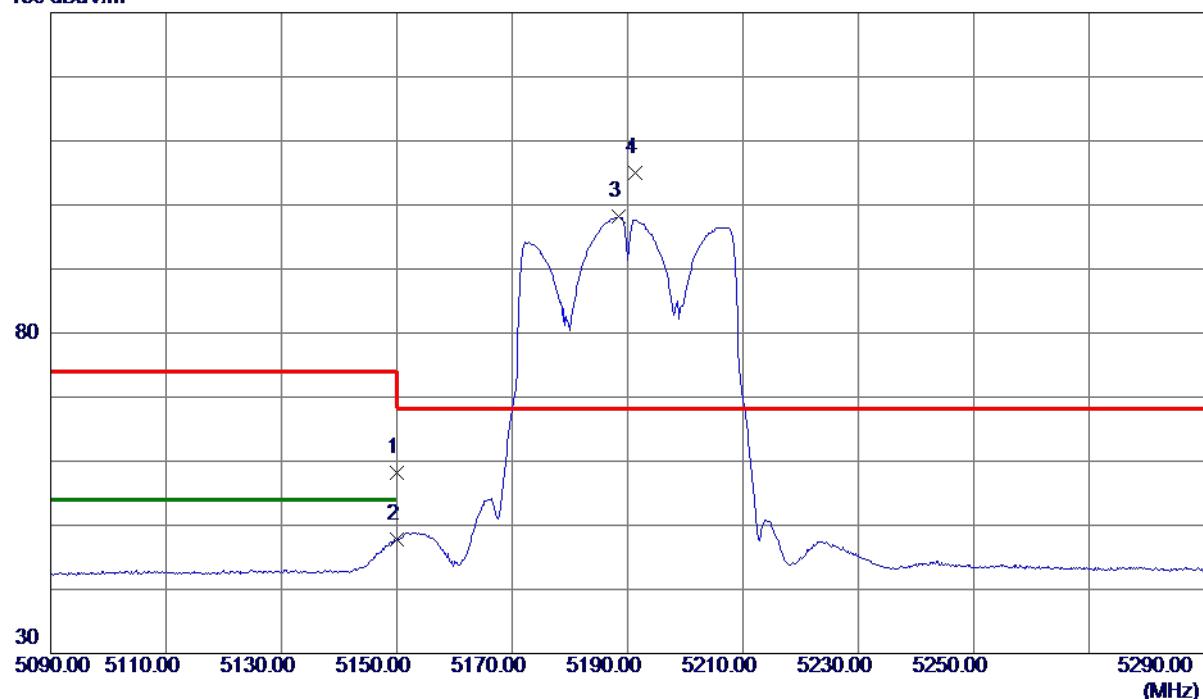
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) 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	43.21	14.91	58.12	74.00	-15.88	Peak	
2	5150.0000	32.80	14.91	47.71	54.00	-6.29	AVG	
3	5188.4000	83.12	14.99	98.11	999.00	-900.89	AVG	No Limit
4 *	5191.4000	90.03	15.00	105.03	68.30	36.73	Peak	No Limit

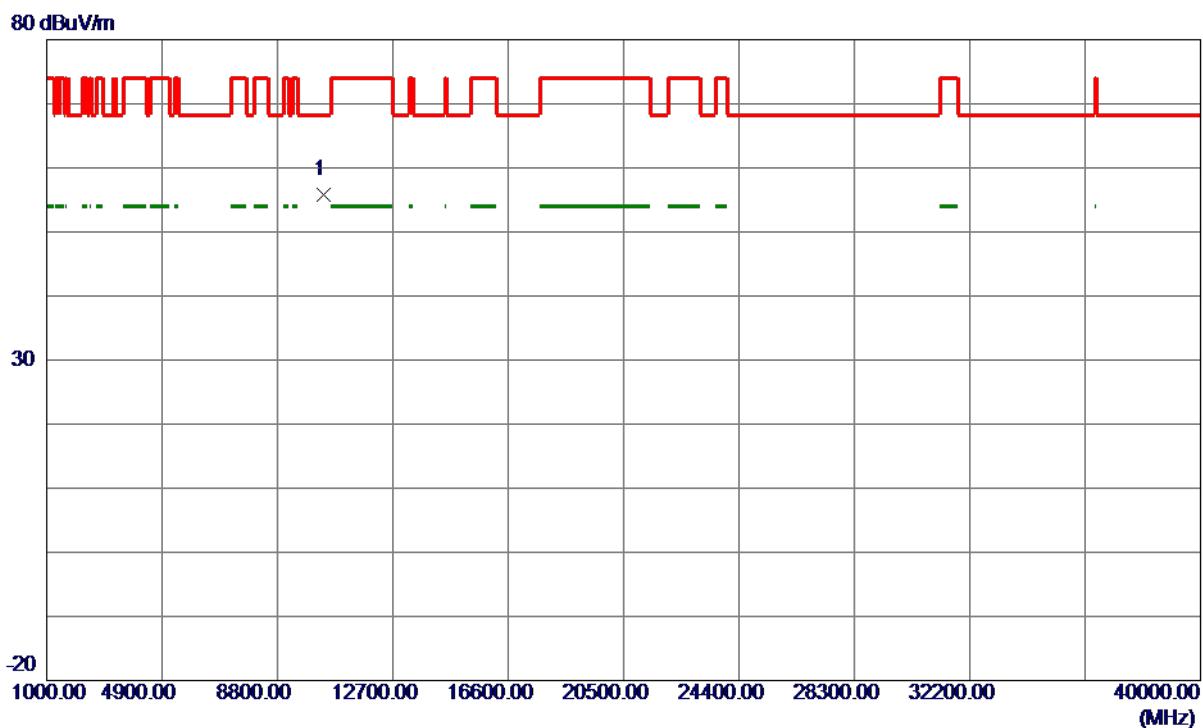
REMARKS:

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

Orthogonal Axis	X
-----------------	---

Test Mode	UNII-1_TX N (HT40) Mode 5190 MHz
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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10380.0500	42.80	12.93	55.73	68.30	-12.57	Peak	

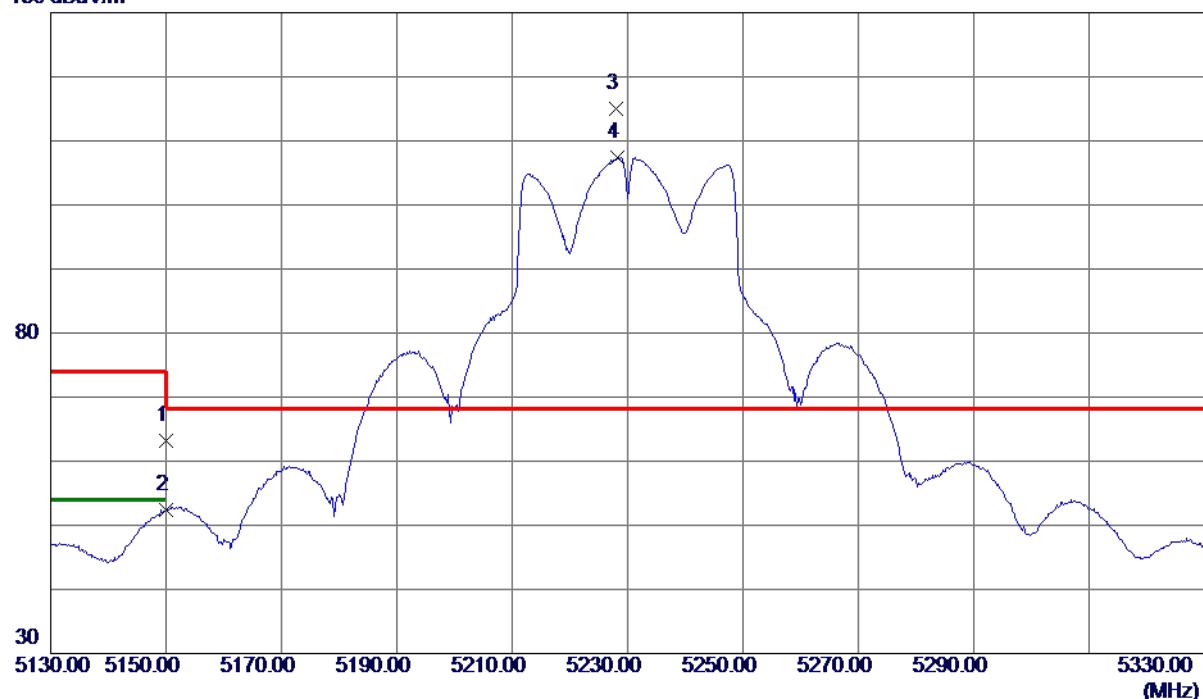
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz

Vertical

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5150.0000	48.20	14.91	63.11	74.00	-10.89	Peak	
2	5150.0000	37.56	14.91	52.47	54.00	-1.53	AVG	
3 *	5228.0000	99.93	15.07	115.00	68.30	46.70	Peak	No Limit
4	5228.2000	92.38	15.07	107.45	999.00	-891.55	AVG	No Limit

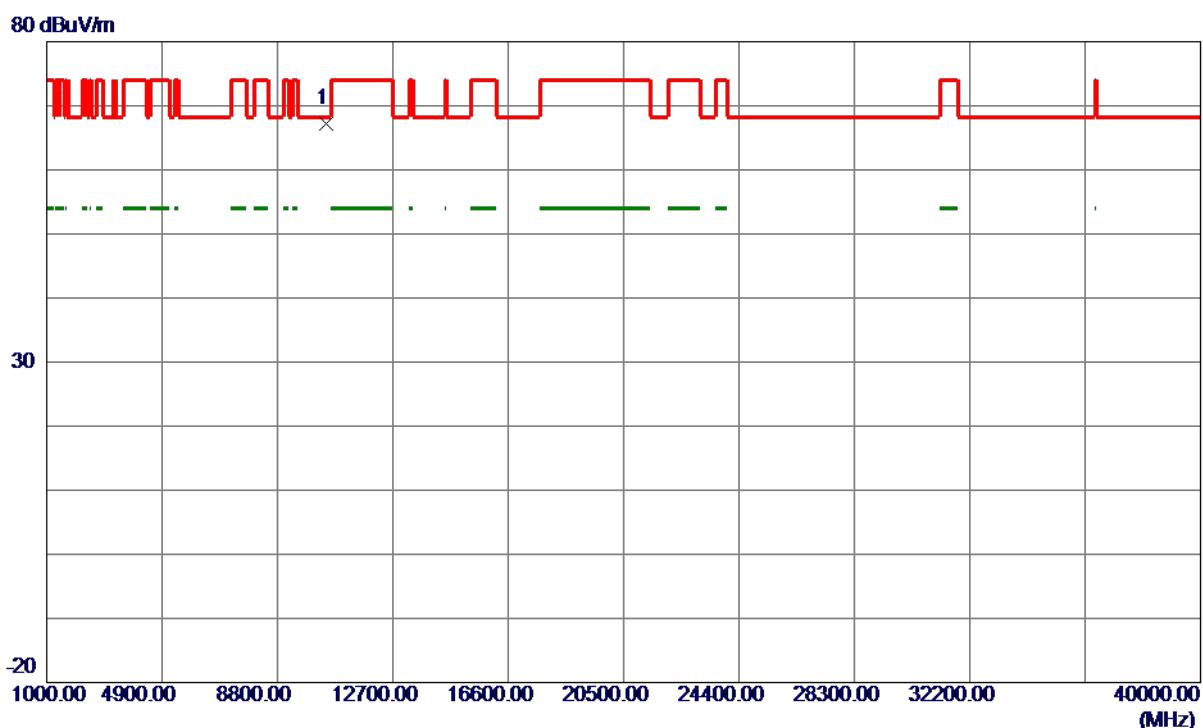
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10467.5500	54.16	13.11	67.27	68.30	-1.03	Peak	

REMARKS:

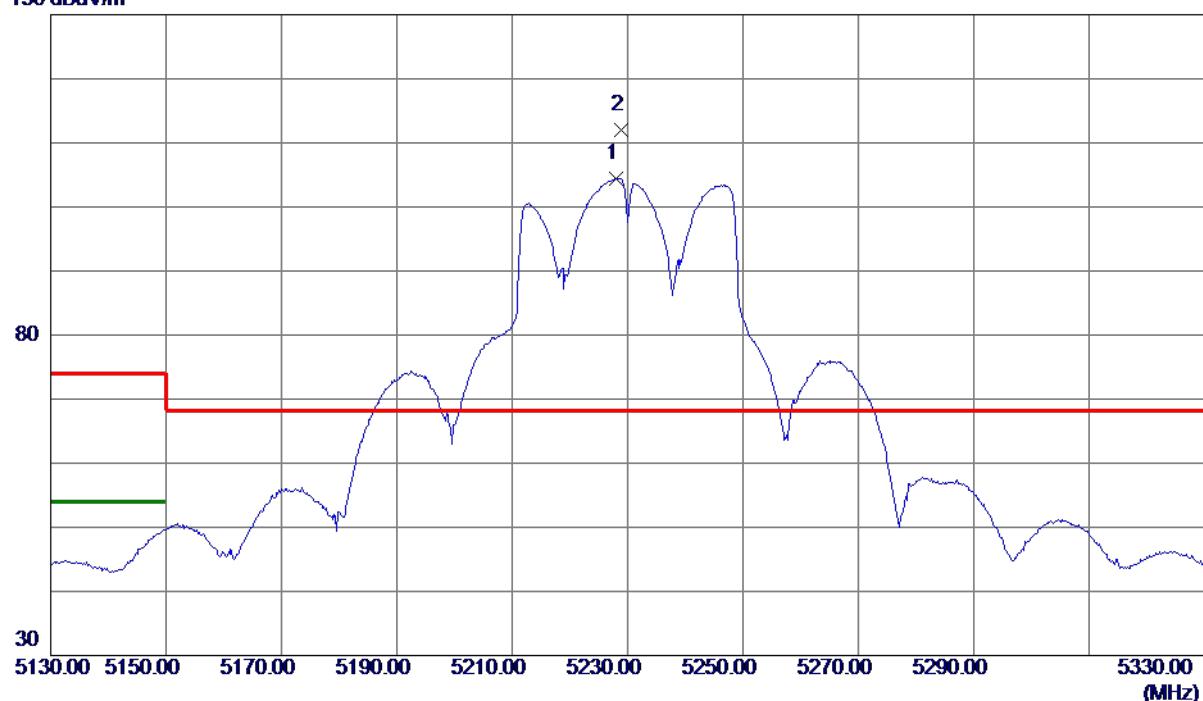
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz
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Horizontal

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5228.0000	89.38	15.07	104.45	999.00	-894.55	AVG	No Limit
2 *	5228.8000	96.93	15.07	112.00	68.30	43.70	Peak	No Limit

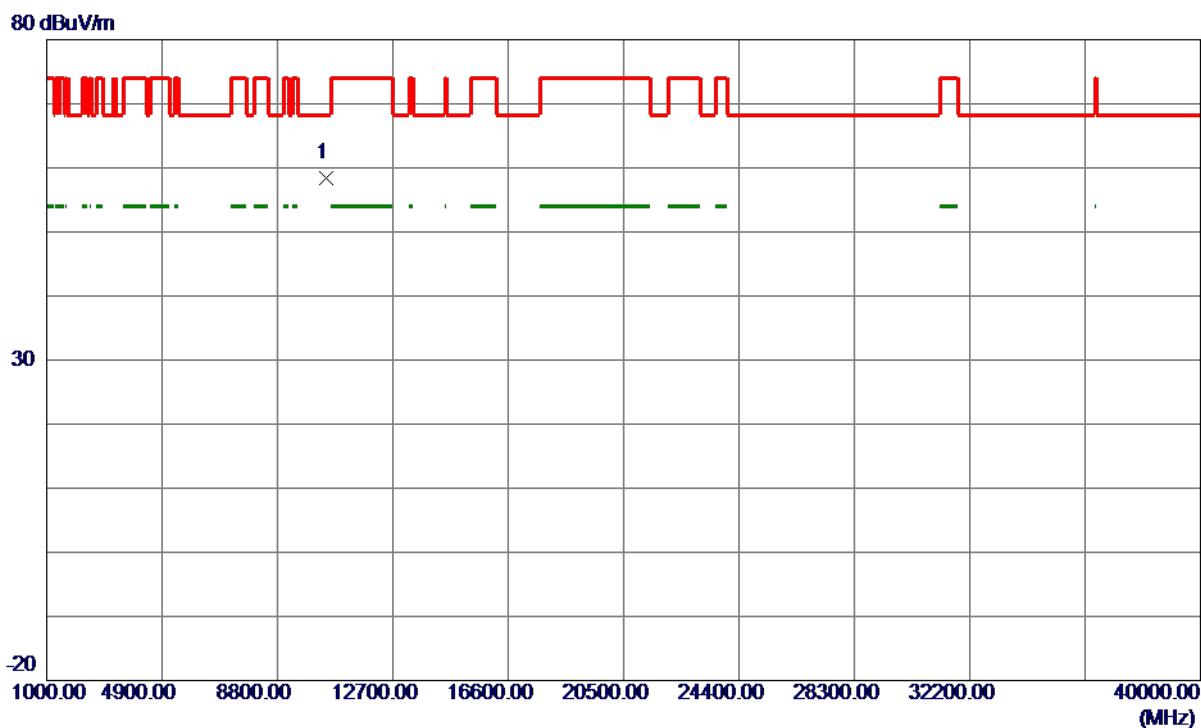
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-1_TX N (HT40) Mode 5230 MHz
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Horizontal



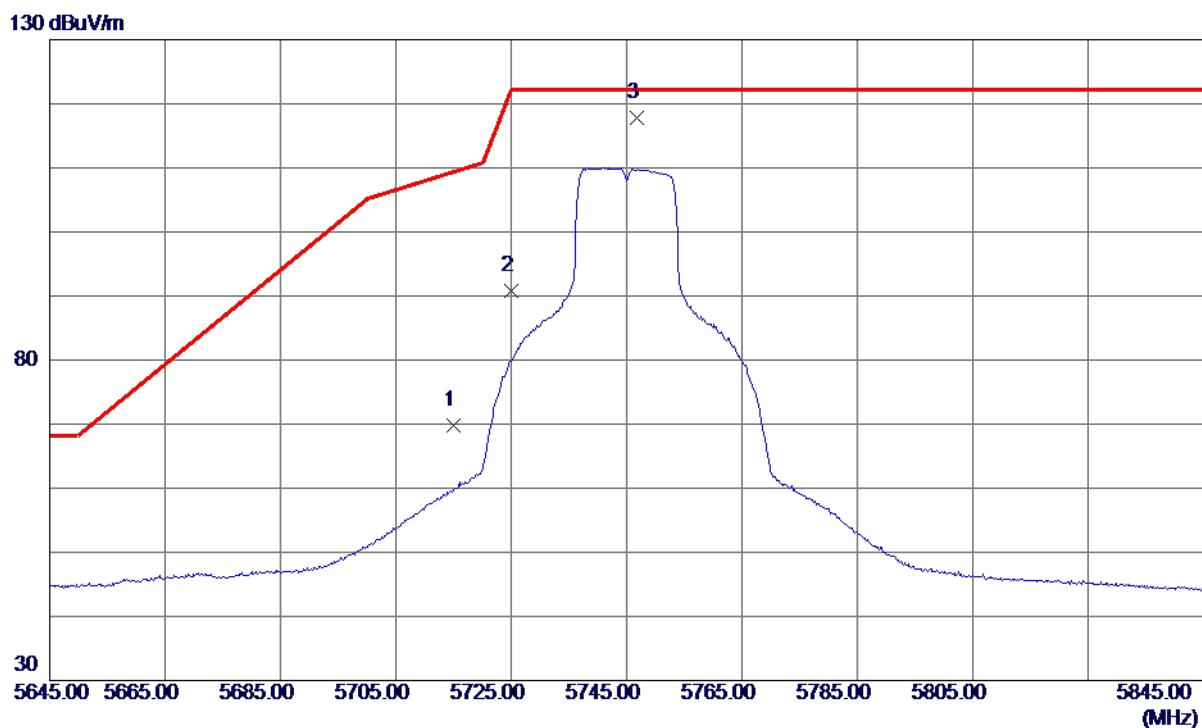
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10467.3500	45.25	13.11	58.36	68.30	-9.94	Peak	

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	53.23	16.48	69.71	109.40	-39.69	Peak	
2	5725.0000	74.22	16.52	90.74	122.20	-31.46	Peak	
3 *	5746.8000	101.27	16.61	117.88	122.20	-4.32	Peak	No Limit

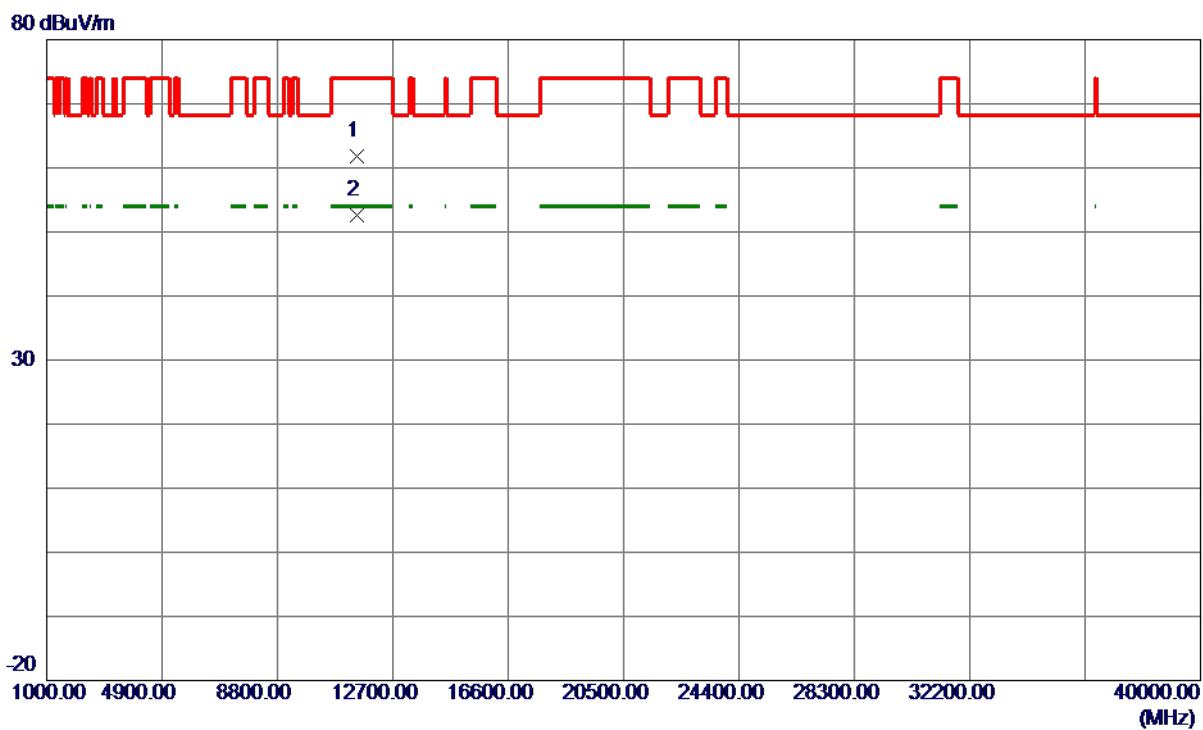
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11488.3000	47.68	14.08	61.76	74.00	-12.24	Peak	
2 *	11490.1000	38.43	14.08	52.51	54.00	-1.49	AVG	

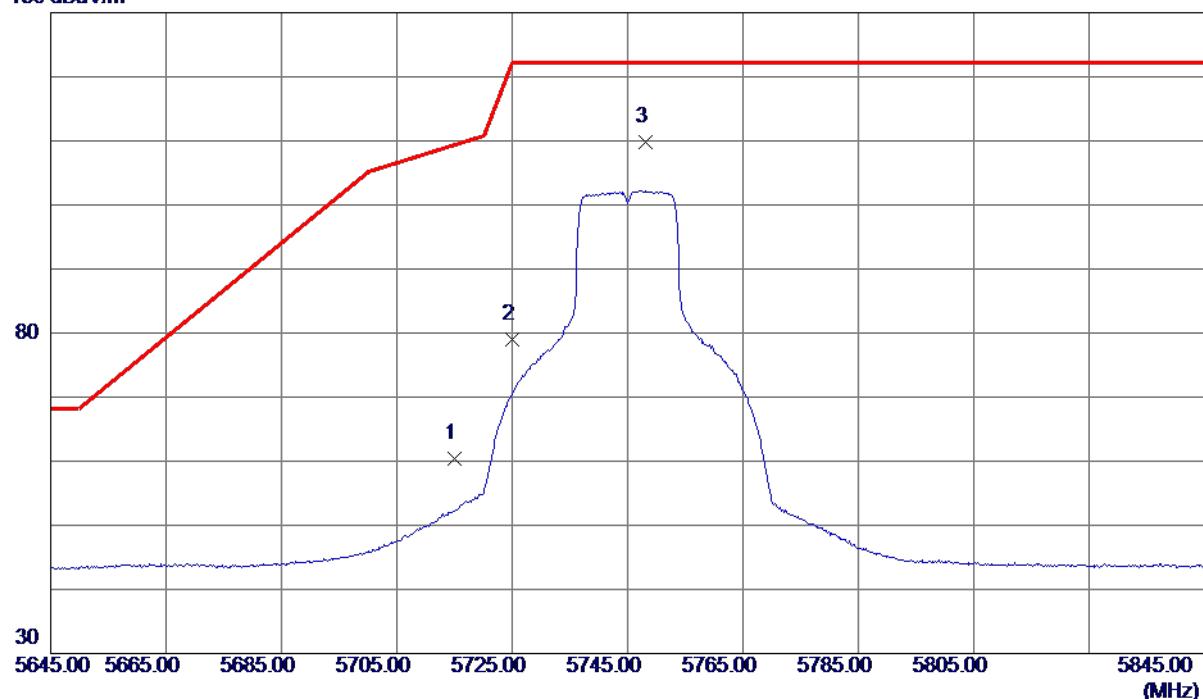
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX A Mode 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	43.90	16.48	60.38	109.40	-49.02	Peak	
2	5725.0000	62.51	16.52	79.03	122.20	-43.17	Peak	
3 *	5748.2000	93.21	16.62	109.83	122.20	-12.37	Peak	No Limit

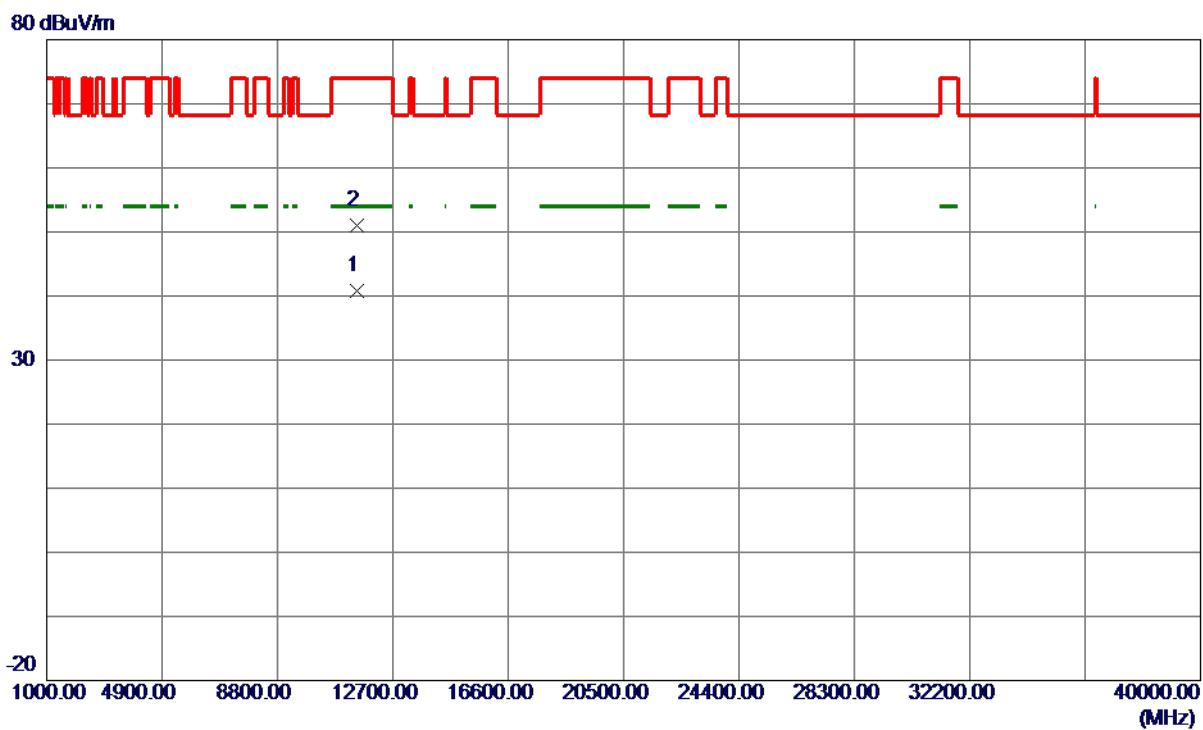
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11490.3000	26.72	14.08	40.80	54.00	-13.20	AVG	
2	11492.9000	36.94	14.09	51.03	74.00	-22.97	Peak	

REMARKS:

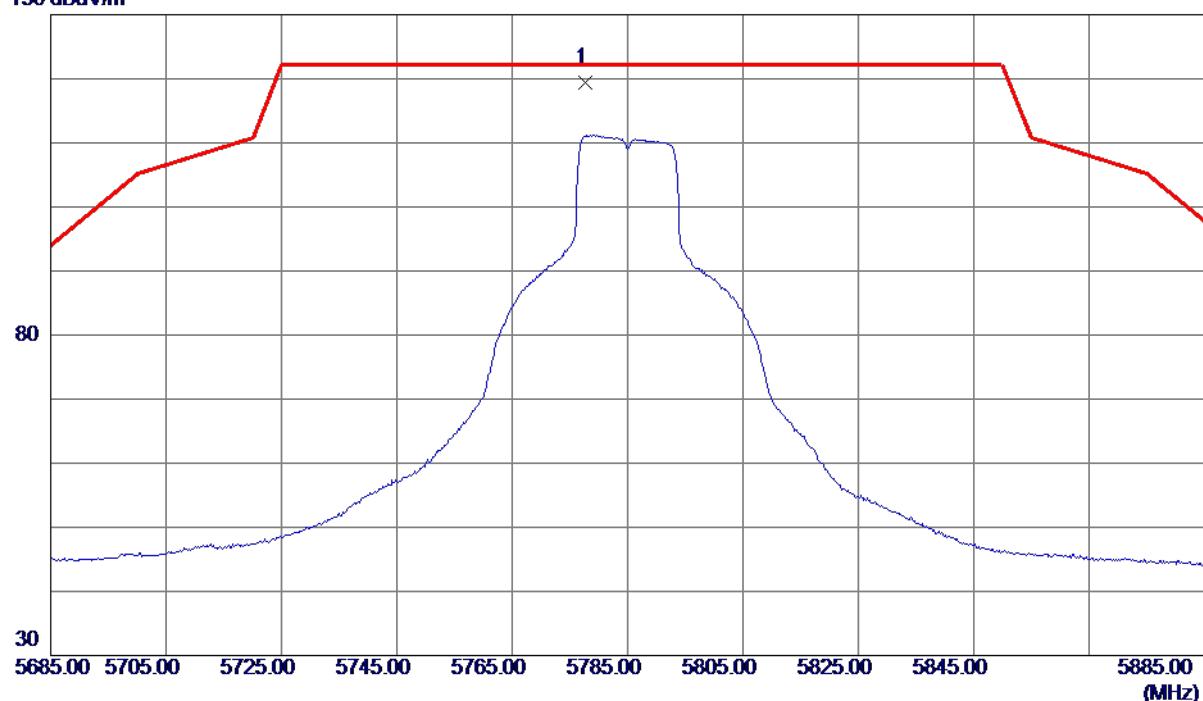
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

130 dBuV/m



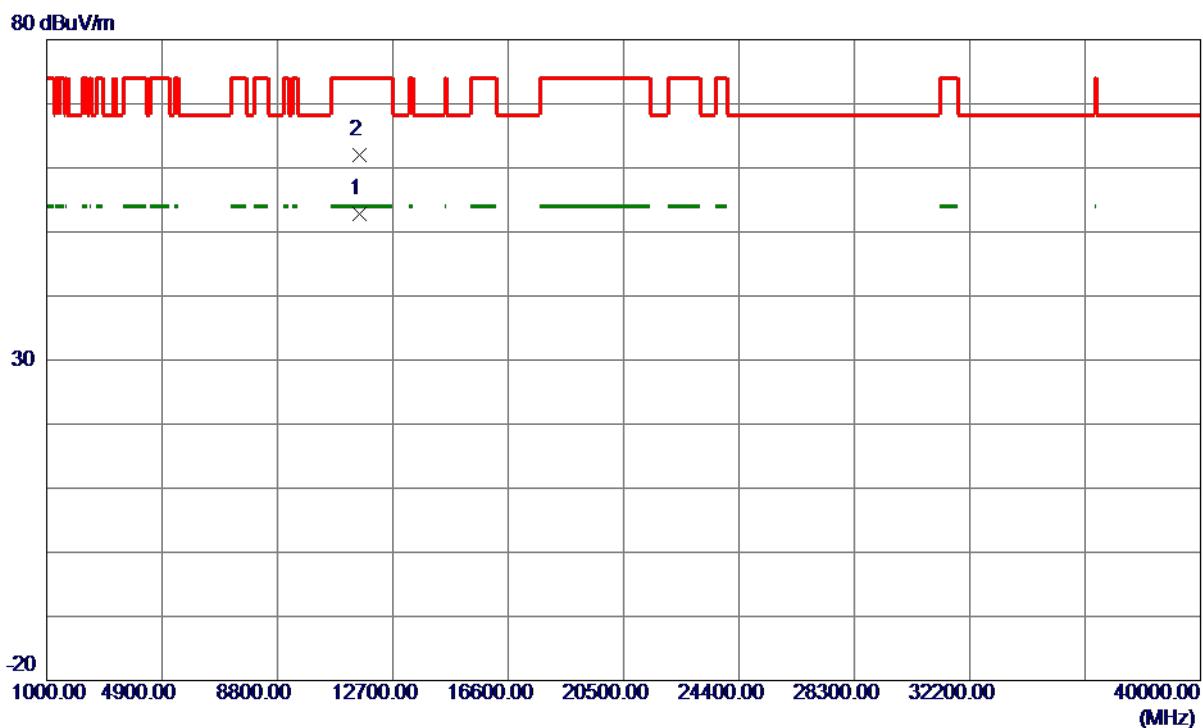
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5777.6000	102.65	16.73	119.38	122.20	-2.82	Peak	No Limit

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.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment				
1 *	11569.1000	38.58	14.15	52.73	54.00	-1.27	AVG	
2	11569.6000	47.82	14.15	61.97	74.00	-12.03	Peak	

REMARKS:

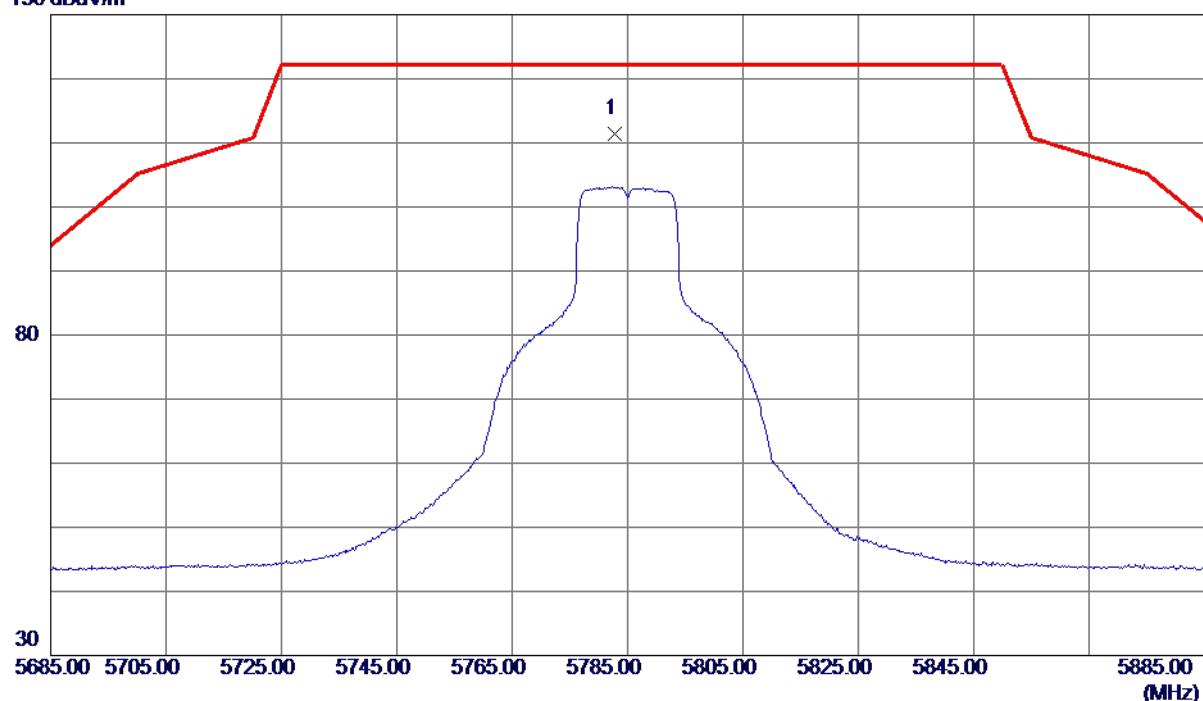
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5782.8000	94.57	16.75	111.32	122.20	-10.88	Peak	No Limit

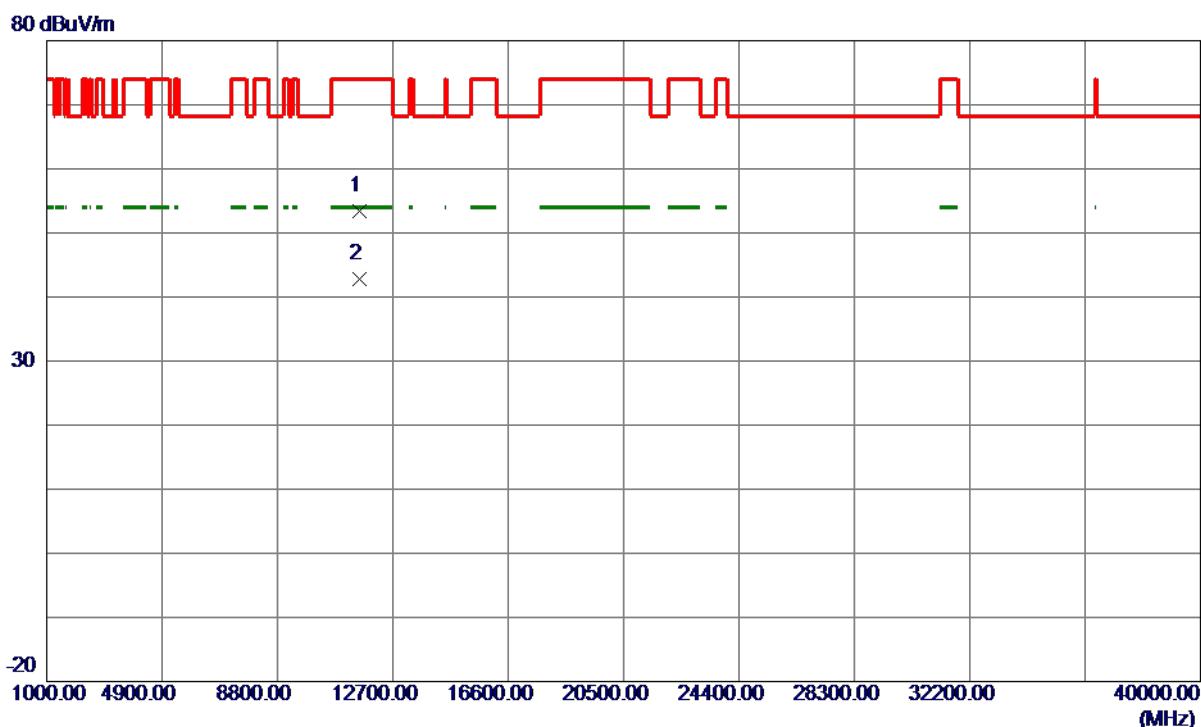
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11570.000	39.30	14.15	53.45	74.00	-20.55	Peak	
2 *	11570.000	28.65	14.15	42.80	54.00	-11.20	AVG	

REMARKS:

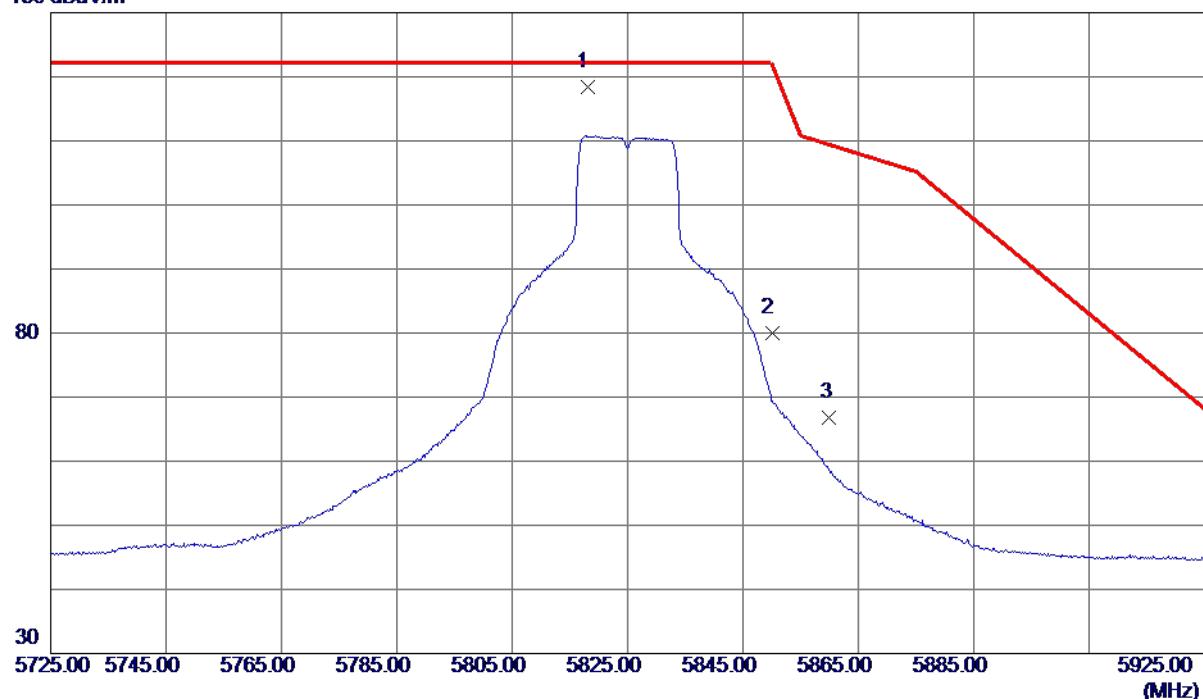
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

130 dBuV/m



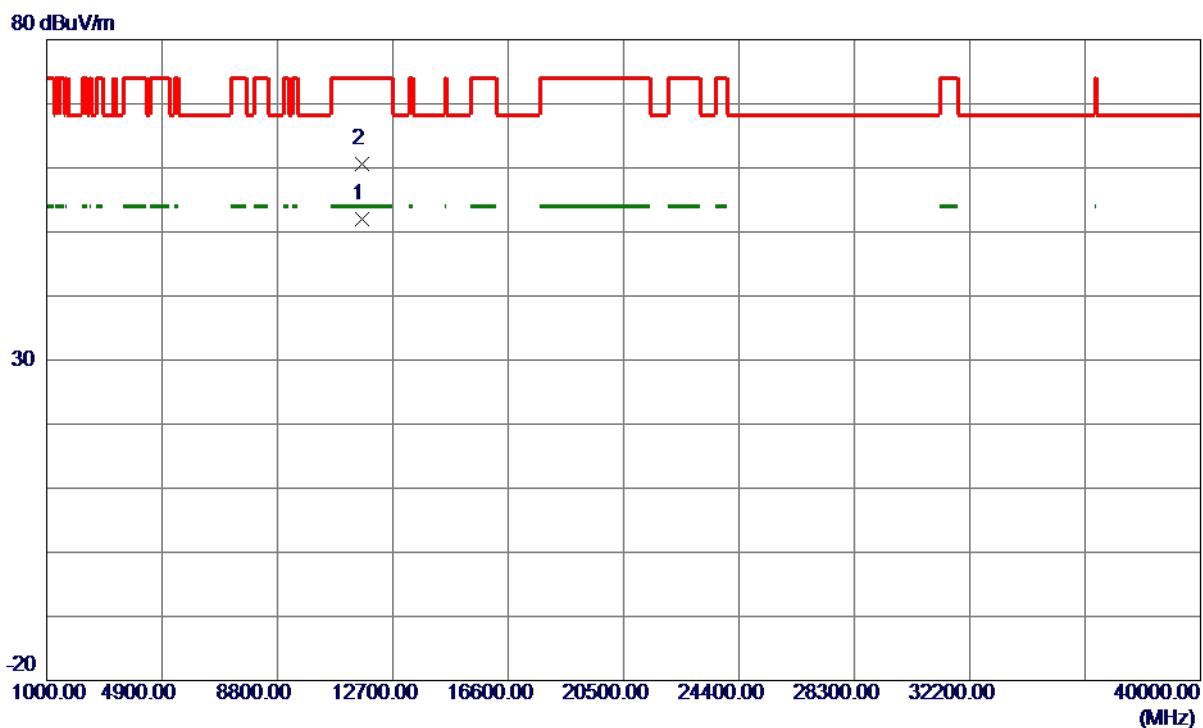
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5818.0000	101.56	16.89	118.45	122.20	-3.75	Peak	No Limit
2	5850.0000	62.99	17.02	80.01	122.20	-42.19	Peak	
3	5860.0000	49.71	17.06	66.77	109.40	-42.63	Peak	

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



No.	Freq.	Reading	Correct	Measure	Limit	Margin	Detector	Comment
		Level	Factor	ment				
1 *	11649.7000	37.83	14.21	52.04	54.00	-1.96	AVG	
2	11650.3000	46.44	14.21	60.65	74.00	-13.35	Peak	

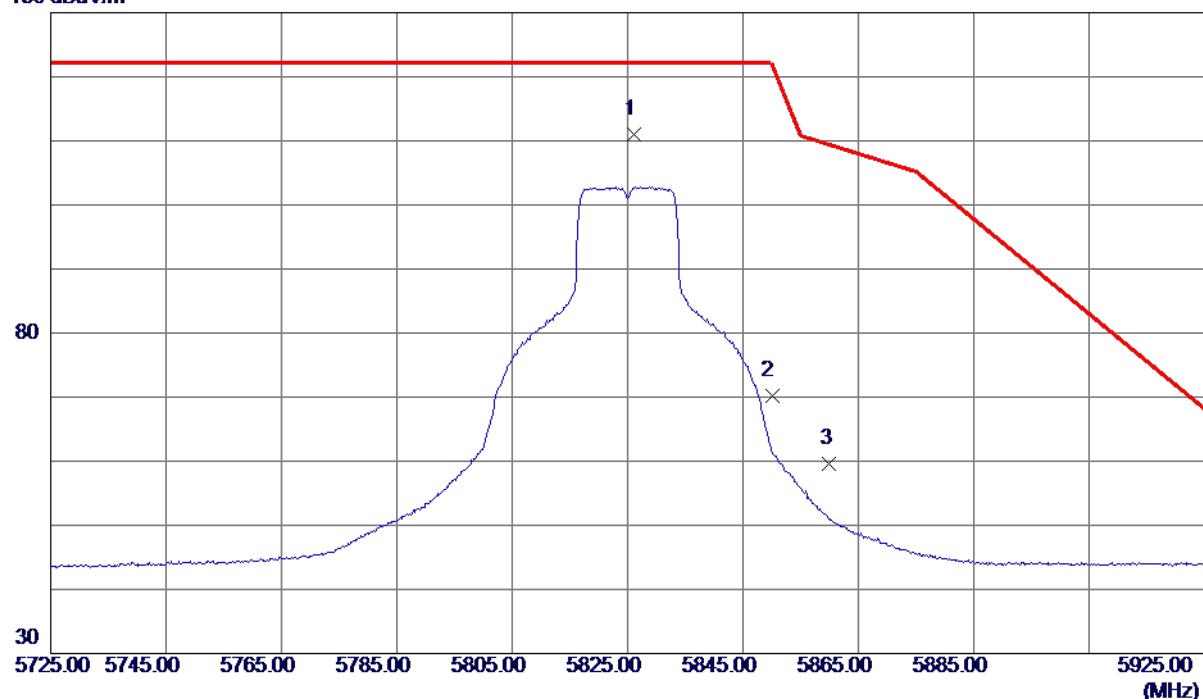
REMARKS:

- (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

130 dBuV/m



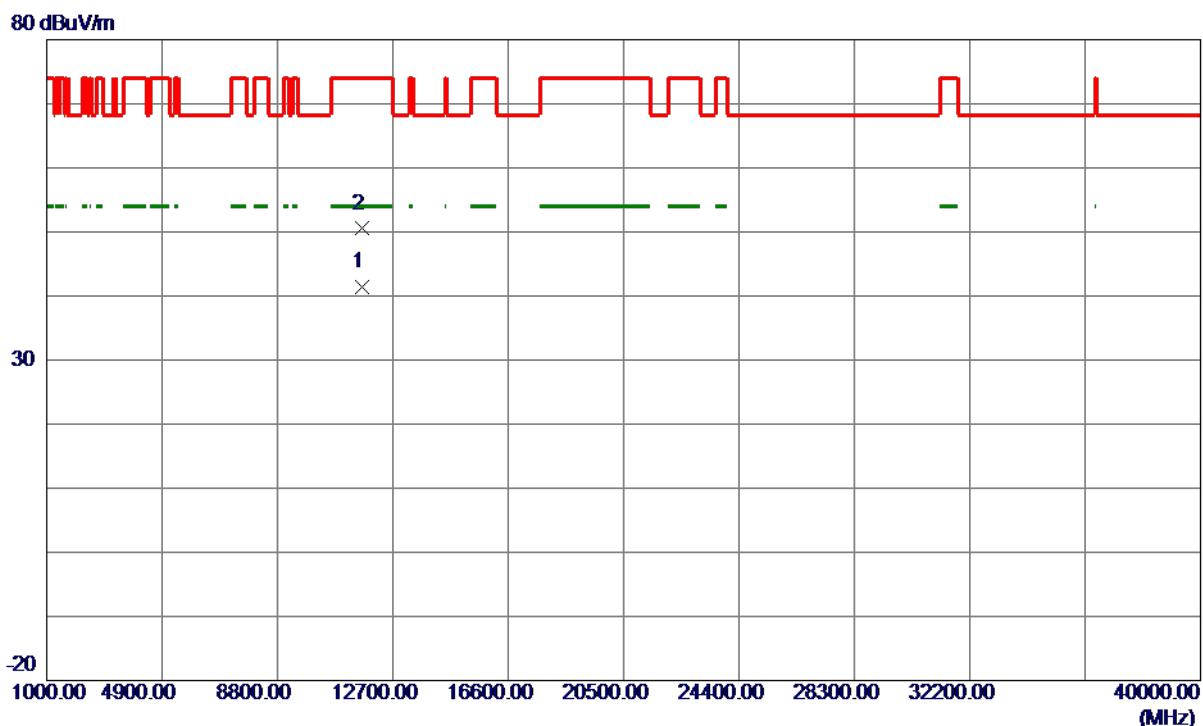
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5826.2000	94.01	16.92	110.93	122.20	-11.27	Peak	No Limit
2	5850.0000	53.12	17.02	70.14	122.20	-52.06	Peak	
3	5860.0000	42.54	17.06	59.60	109.40	-49.80	Peak	

REMARKS:

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

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

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11650.000	27.25	14.21	41.46	54.00	-12.54	AVG	
2	11653.100	36.28	14.22	50.50	74.00	-23.50	Peak	

REMARKS:

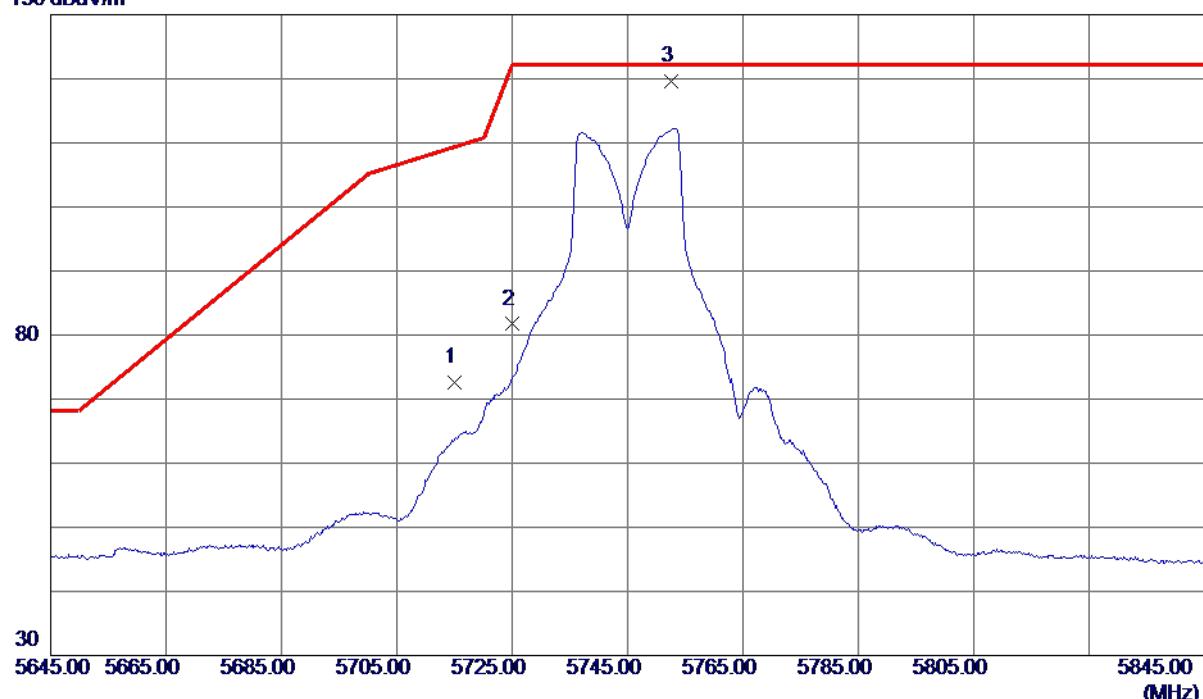
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz
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Vertical

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5715.0000	56.04	16.48	72.52	109.40	-36.88	Peak	
2	5725.0000	65.18	16.52	81.70	122.20	-40.50	Peak	
3 *	5752.6000	102.98	16.63	119.61	122.20	-2.59	Peak	No Limit

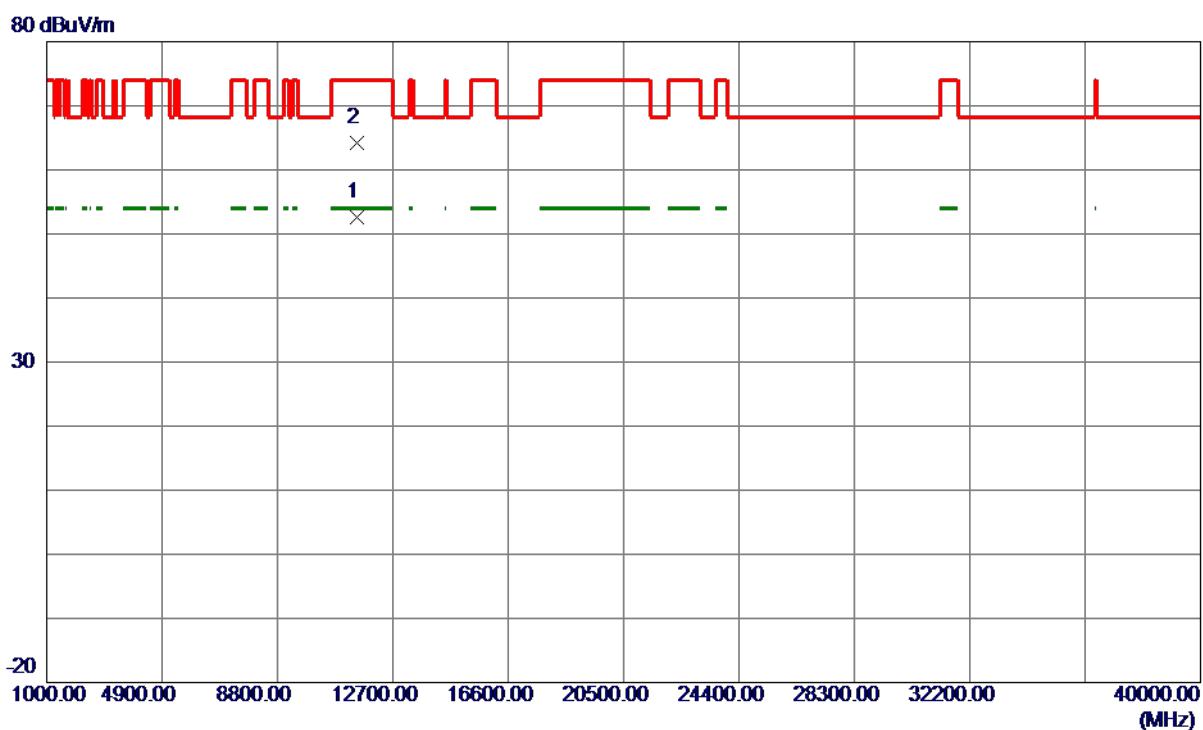
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11489. 9500	38. 55	14. 08	52. 63	54. 00	-1. 37	AVG	
2	11493. 0000	50. 10	14. 09	64. 19	74. 00	-9. 81	Peak	

REMARKS:

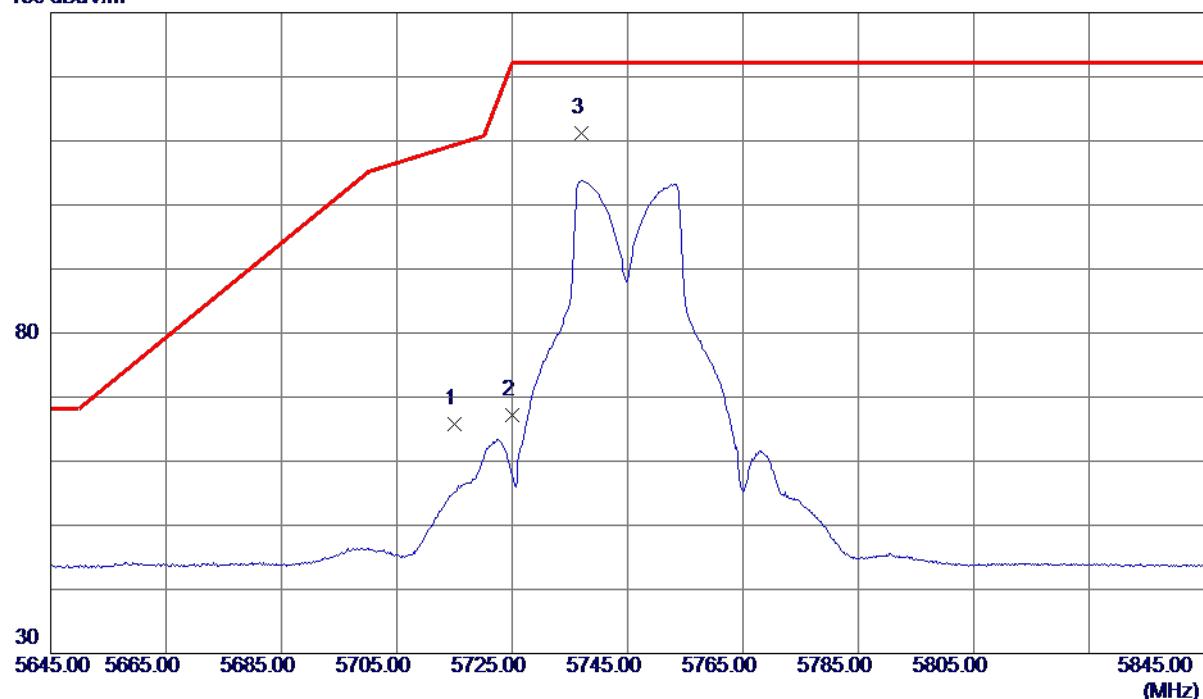
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5745 MHz
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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	49.24	16.48	65.72	109.40	-43.68	Peak	
2	5725.0000	50.61	16.52	67.13	122.20	-55.07	Peak	
3 *	5737.0000	94.67	16.57	111.24	122.20	-10.96	Peak	No Limit

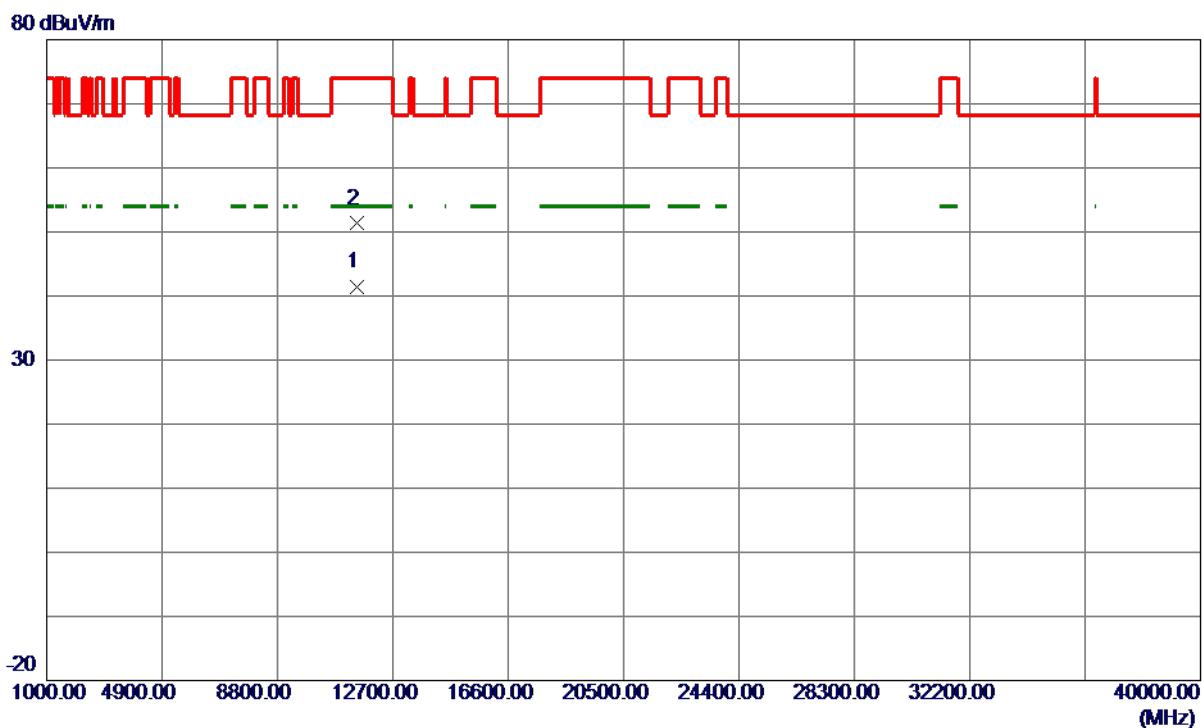
REMARKS:

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

Orthogonal Axis X

Test Mode UNII-3_TX N (HT20) Mode 5745 MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11485.5500	27.40	14.08	41.48	54.00	-12.52	AVG	
2	11492.0500	37.21	14.09	51.30	74.00	-22.70	Peak	

REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz
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Vertical

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5777.6000	104.12	16.73	120.85	122.20	-1.35	Peak	No Limit

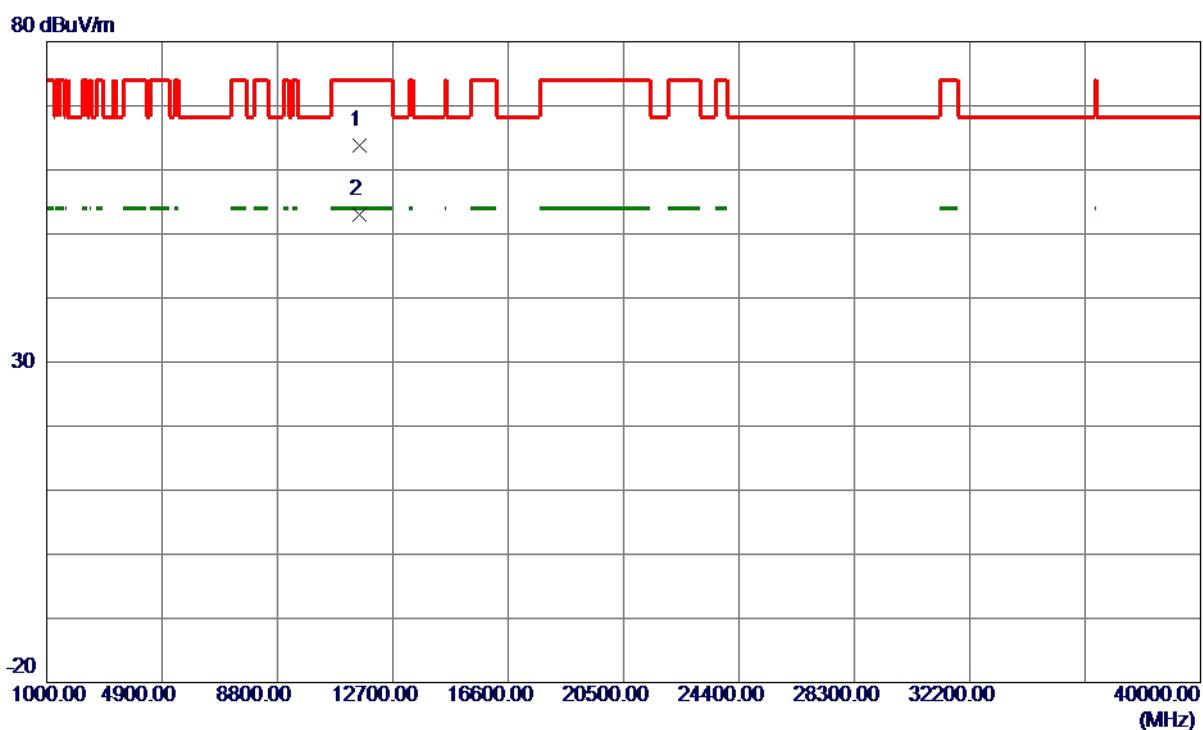
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11568.8500	49.62	14.15	63.77	74.00	-10.23	Peak	
2 *	11570.3500	38.88	14.15	53.03	54.00	-0.97	AVG	

REMARKS:

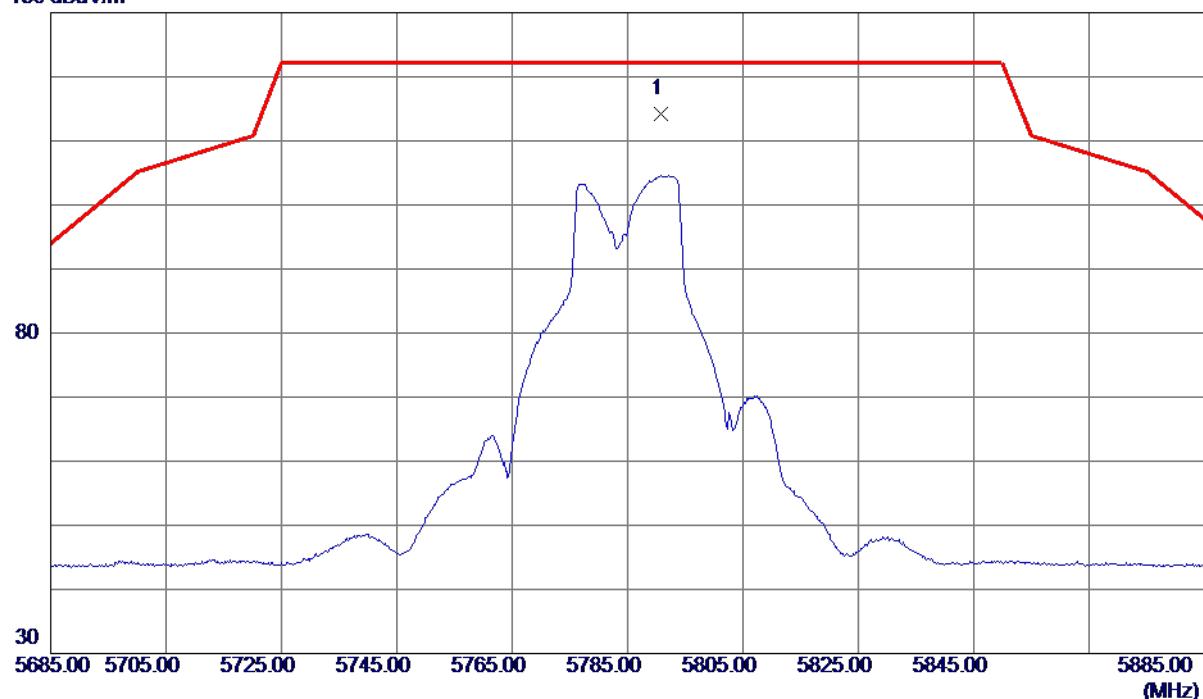
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz
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Horizontal

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5790.8000	97.38	16.78	114.16	122.20	-8.04	Peak	No Limit

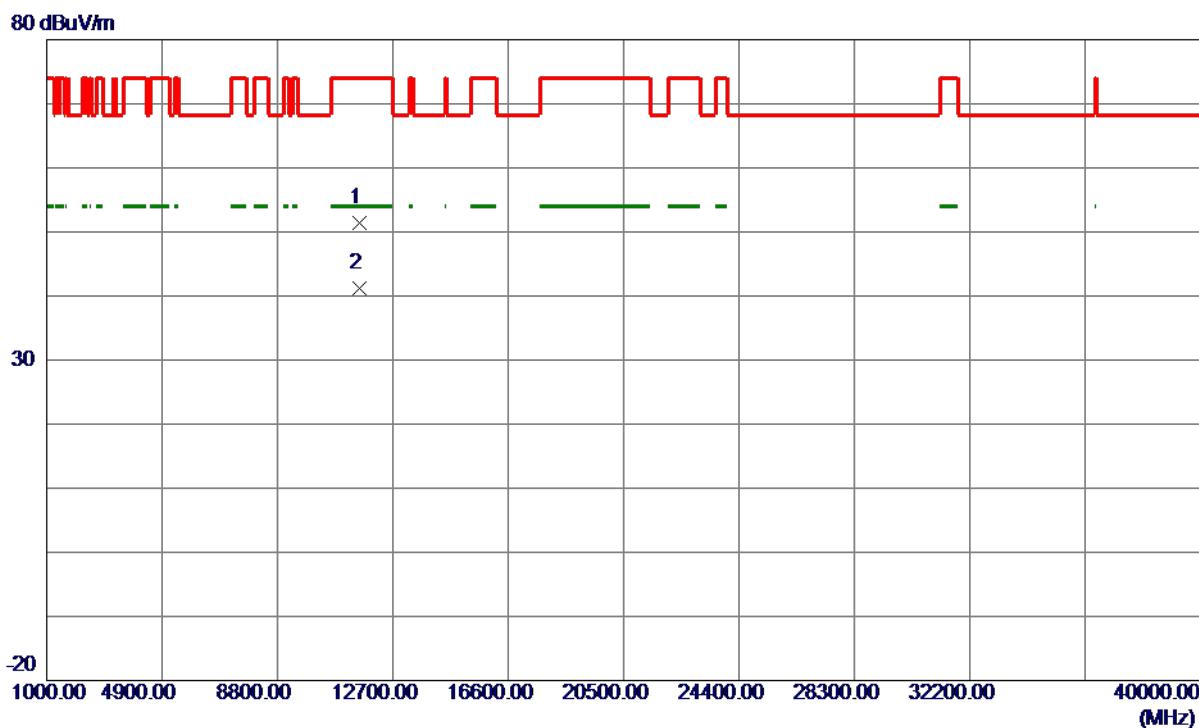
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5785 MHz
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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11572.1000	37.23	14.15	51.38	74.00	-22.62	Peak	
2 *	11575.7500	27.07	14.15	41.22	54.00	-12.78	AVG	

REMARKS:

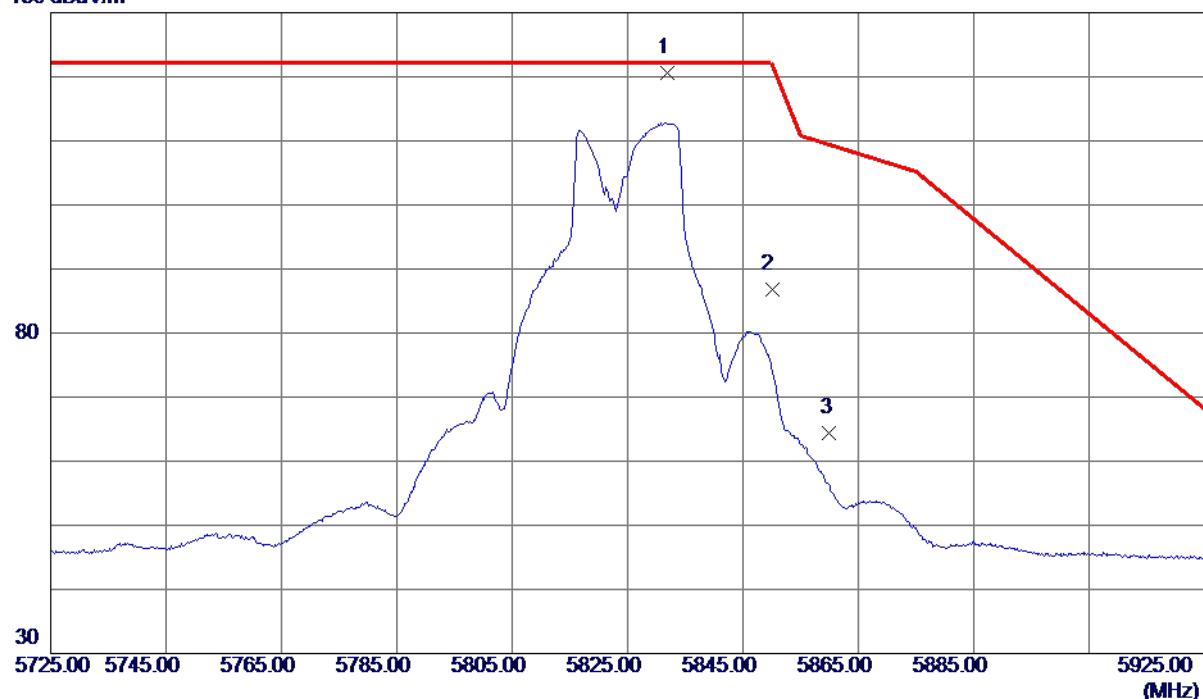
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz
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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 *	5831.8000	103.56	16.95	120.51	122.20	-1.69	Peak	No Limit
2	5850.0000	69.87	17.02	86.89	122.20	-35.31	Peak	
3	5860.0000	47.35	17.06	64.41	109.40	-44.99	Peak	

REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11645.6000	38.12	14.21	52.33	54.00	-1.67	AVG	
2	11647.2500	49.49	14.21	63.70	74.00	-10.30	Peak	

REMARKS:

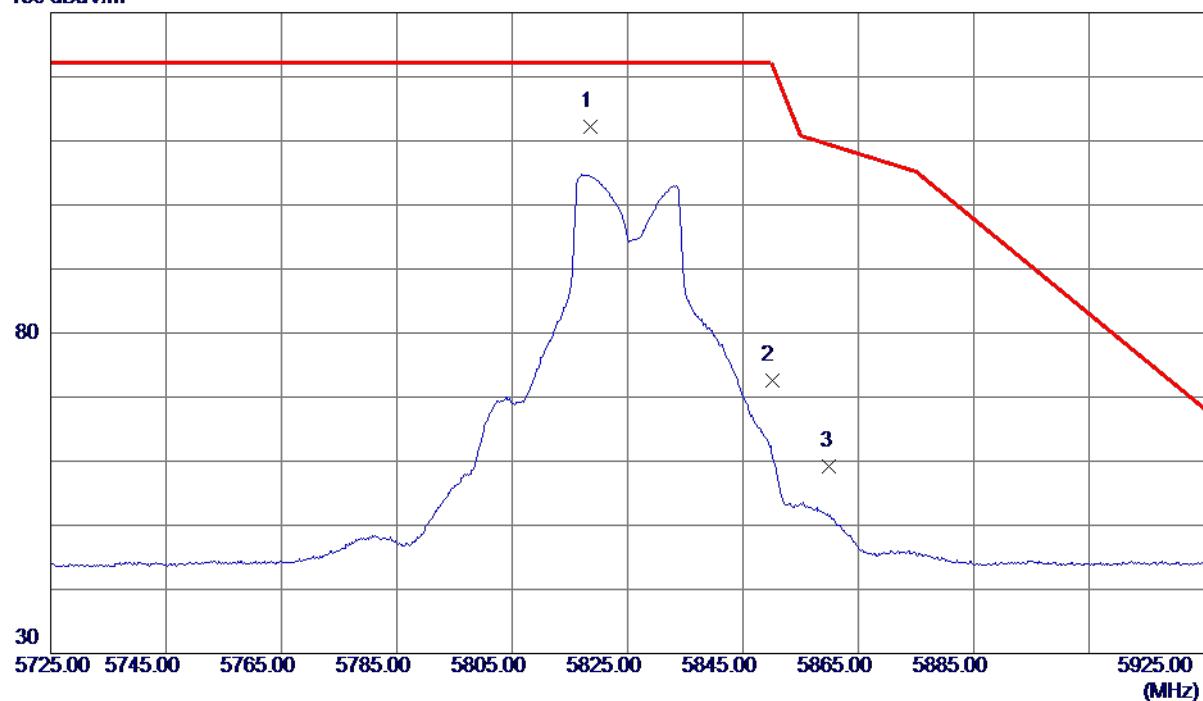
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT20) Mode 5825 MHz
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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 *	5818.6000	95.30	16.89	112.19	122.20	-10.01	Peak	No Limit
2	5850.0000	55.53	17.02	72.55	122.20	-49.65	Peak	
3	5860.0000	42.15	17.06	59.21	109.40	-50.19	Peak	

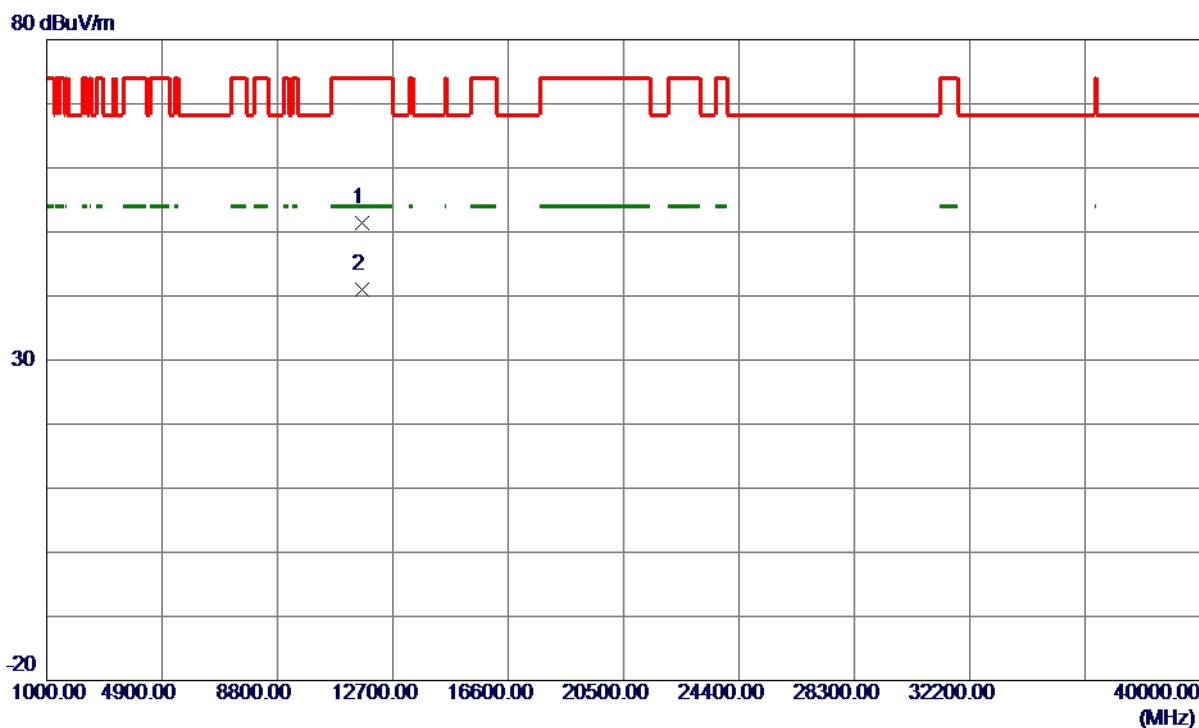
REMARKS:

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

Orthogonal Axis X

Test Mode UNII-3_TX N (HT20) Mode 5825 MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11642.7500	37.12	14.21	51.33	74.00	-22.67	Peak	
2 *	11649.9000	26.79	14.21	41.00	54.00	-13.00	AVG	

REMARKS:

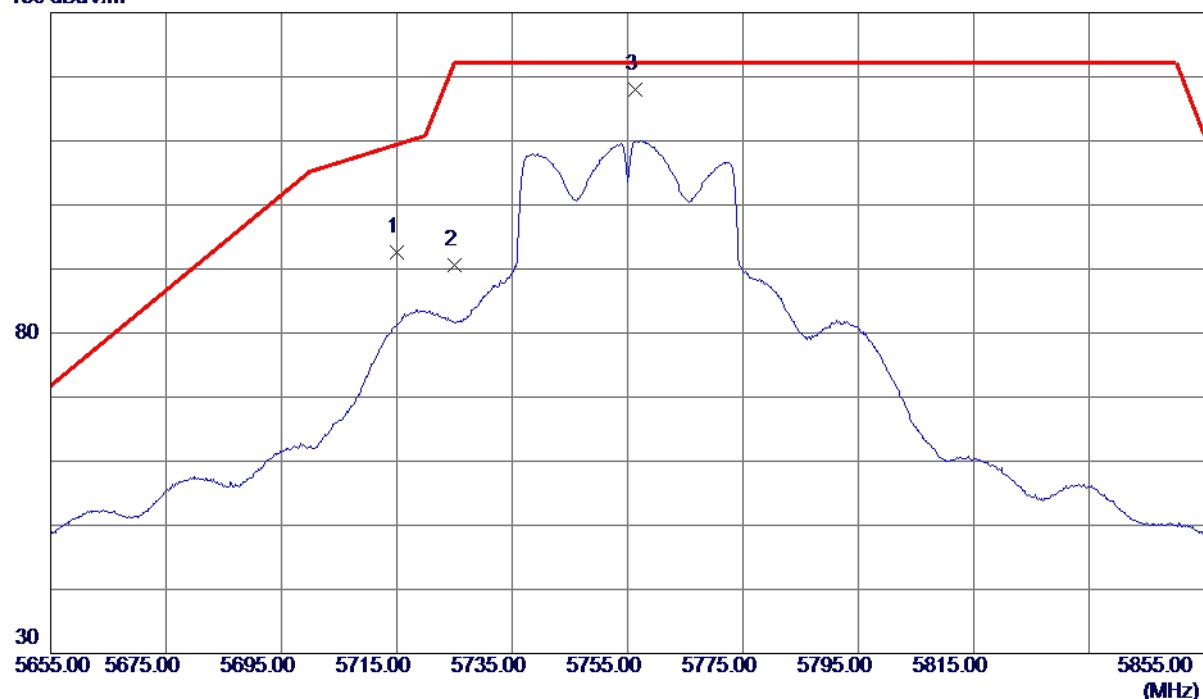
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz
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Vertical

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5715.0000	76.15	16.48	92.63	109.40	-16.77	Peak	
2	5725.0000	74.16	16.52	90.68	122.20	-31.52	Peak	
3 *	5756.4000	101.26	16.65	117.91	122.20	-4.29	Peak	No Limit

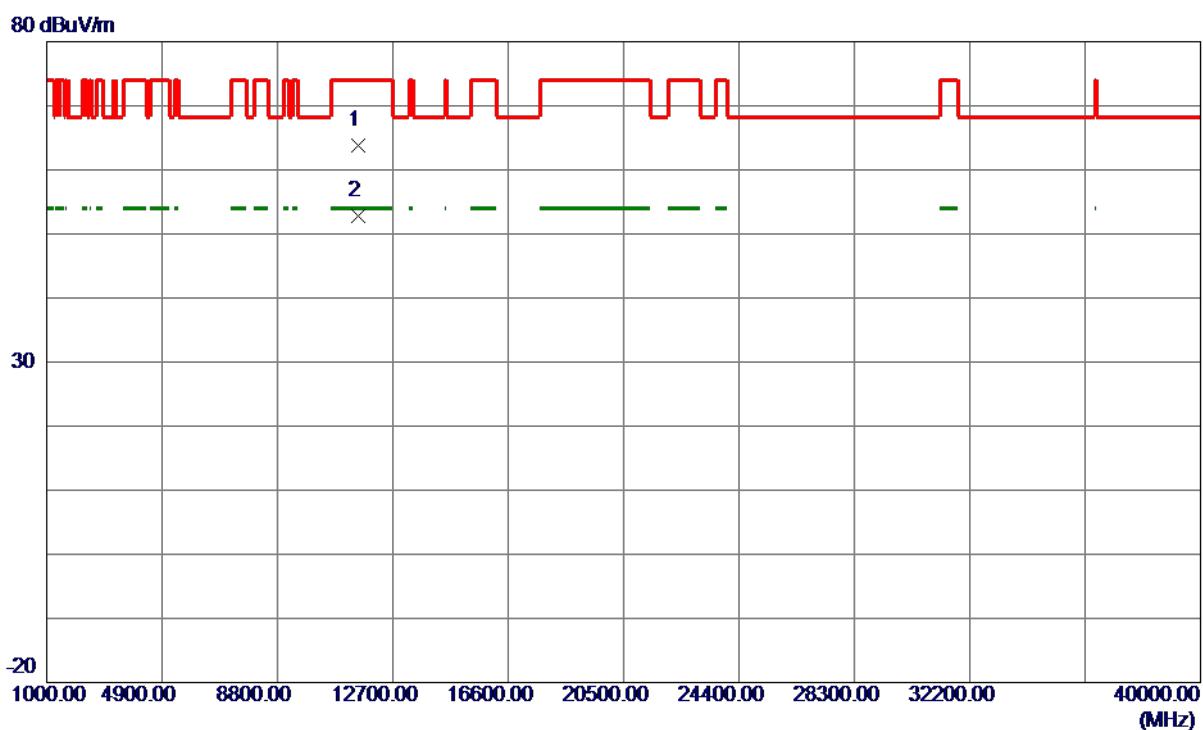
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11509.7500	49.76	14.10	63.86	74.00	-10.14	Peak	
2 *	11510.0500	38.74	14.10	52.84	54.00	-1.16	AVG	

REMARKS:

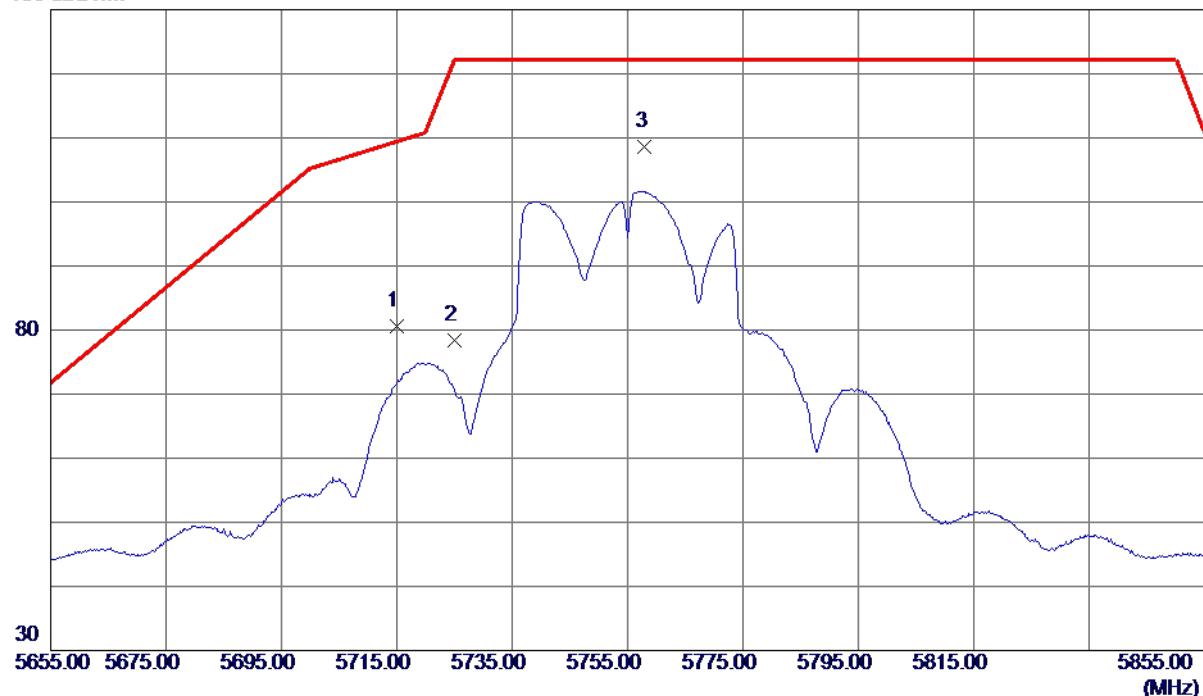
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz
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Horizontal

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5715.0000	64.18	16.48	80.66	109.40	-28.74	Peak	
2	5725.0000	61.90	16.52	78.42	122.20	-43.78	Peak	
3 *	5758.0000	92.04	16.65	108.69	122.20	-13.51	Peak	No Limit

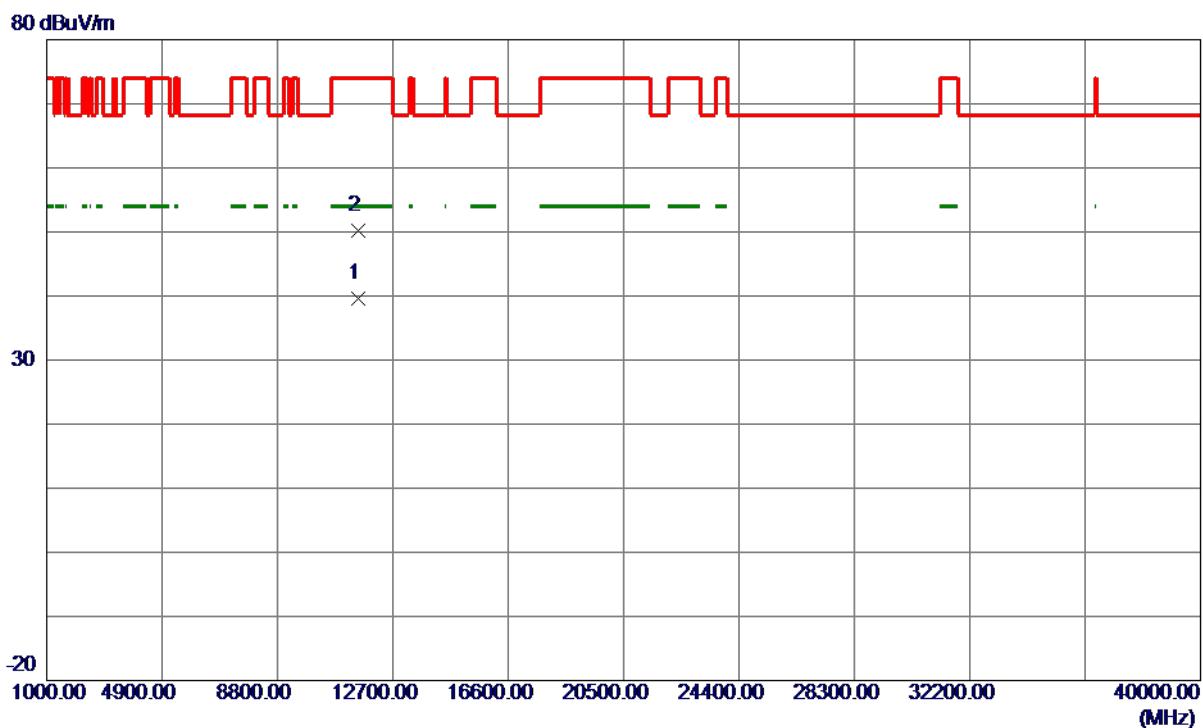
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT40) Mode 5755 MHz
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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11514.7000	25.42	14.11	39.53	54.00	-14.47	AVG	
2	11515.5500	36.04	14.11	50.15	74.00	-23.85	Peak	

REMARKS:

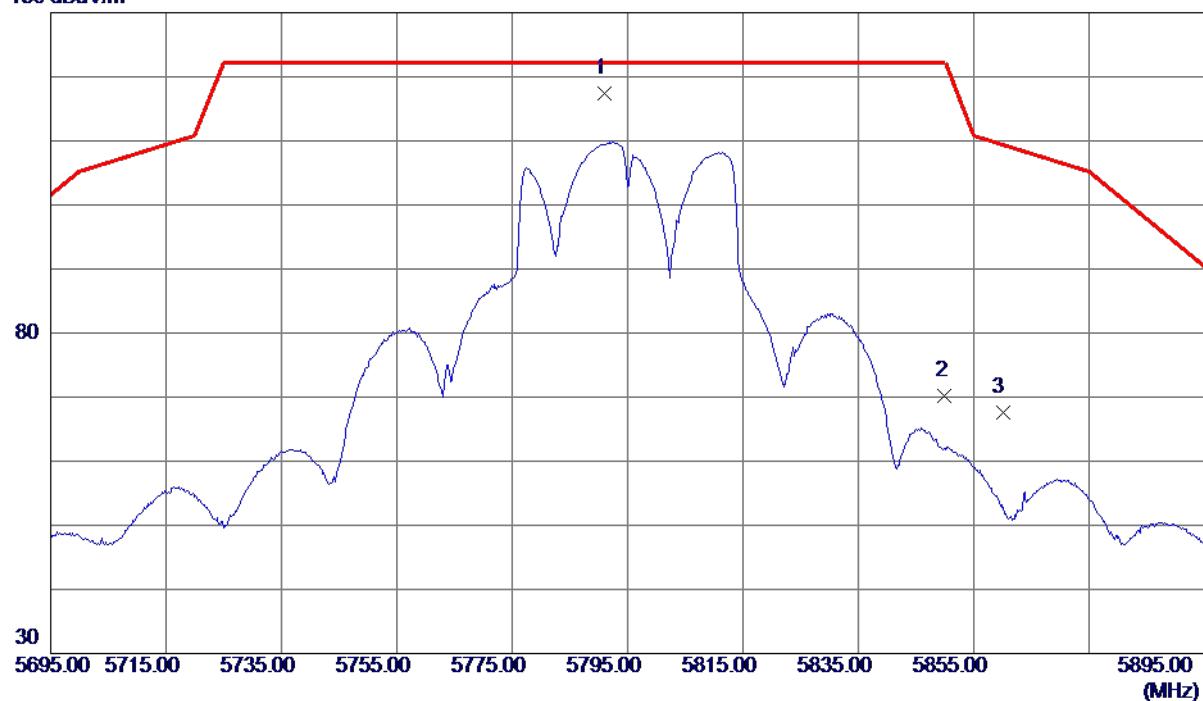
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz
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Vertical

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5791.0000	100.55	16.78	117.33	122.20	-4.87	Peak	No Limit
2	5850.0000	53.15	17.02	70.17	122.20	-52.03	Peak	
3	5860.0000	50.48	17.06	67.54	109.40	-41.86	Peak	

REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz
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Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11587.2000	50.14	14.16	64.30	74.00	-9.70	Peak	
2 *	11587.2500	38.69	14.16	52.85	54.00	-1.15	AVG	

REMARKS:

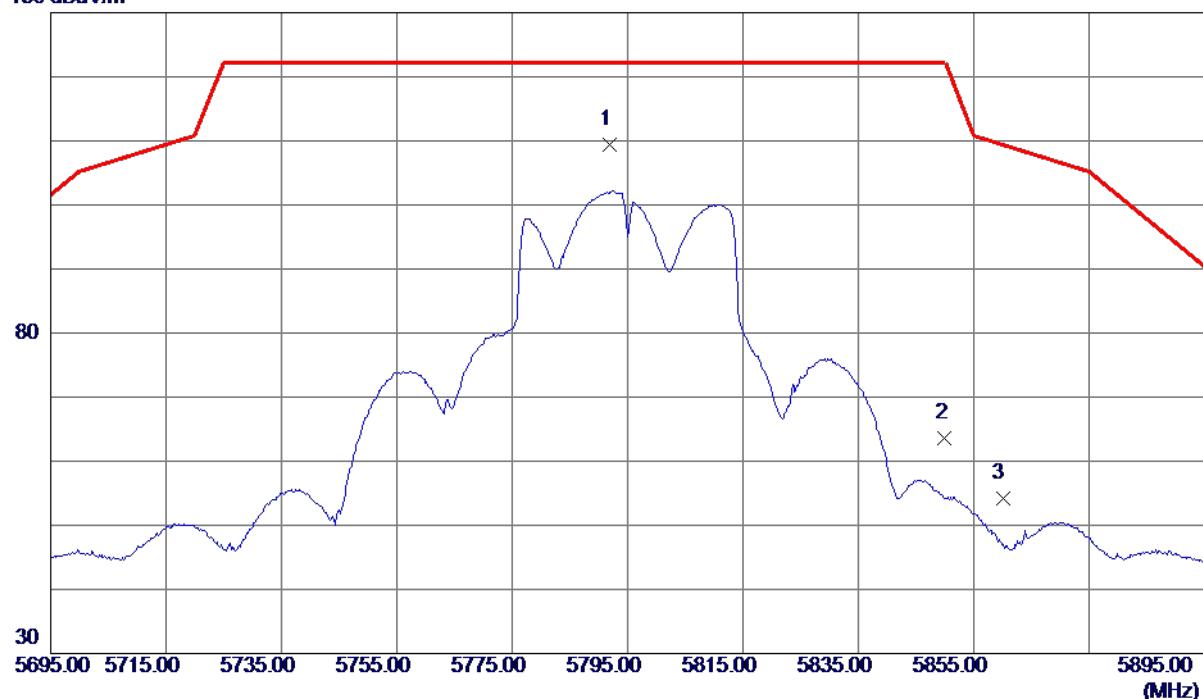
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz
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Horizontal

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5791.8000	92.65	16.79	109.44	122.20	-12.76	Peak	No Limit
2	5850.0000	46.51	17.02	63.53	122.20	-58.67	Peak	
3	5860.0000	37.14	17.06	54.20	109.40	-55.20	Peak	

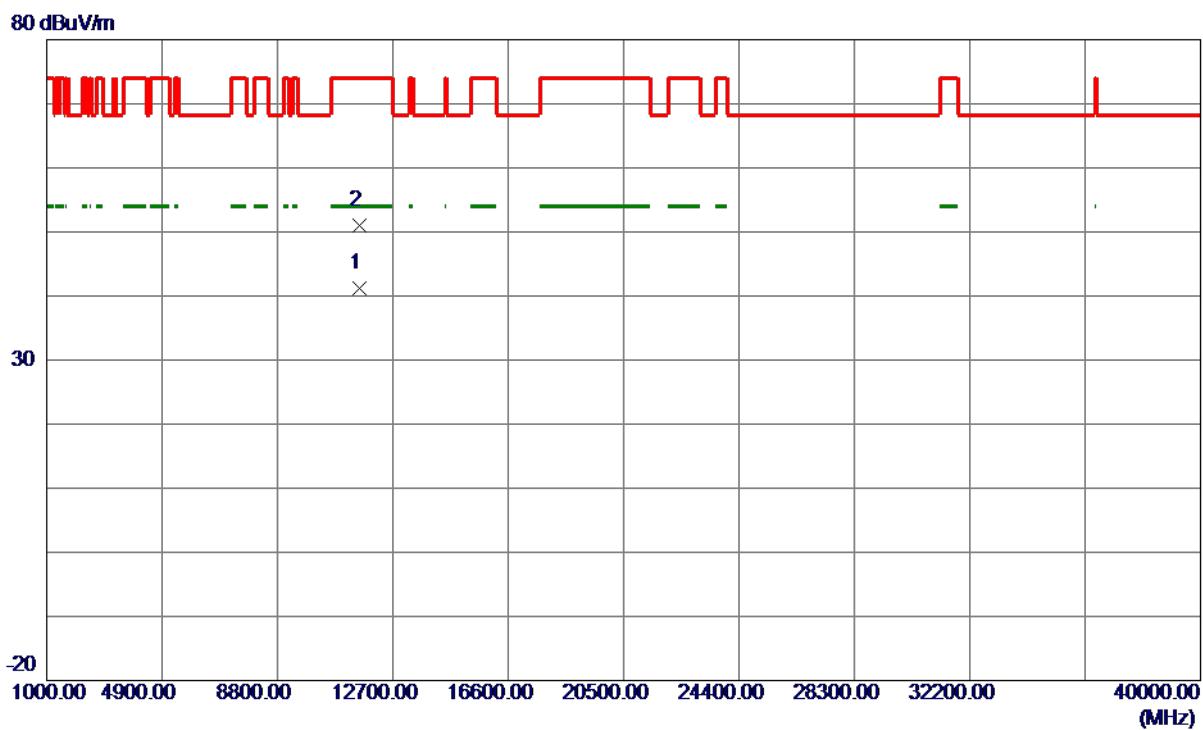
REMARKS:

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

Orthogonal Axis	X
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Test Mode	UNII-3_TX N (HT40) Mode 5795 MHz
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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11593.7500	26.95	14.17	41.12	54.00	-12.88	AVG	
2	11594.7500	36.82	14.17	50.99	74.00	-23.01	Peak	

REMARKS:

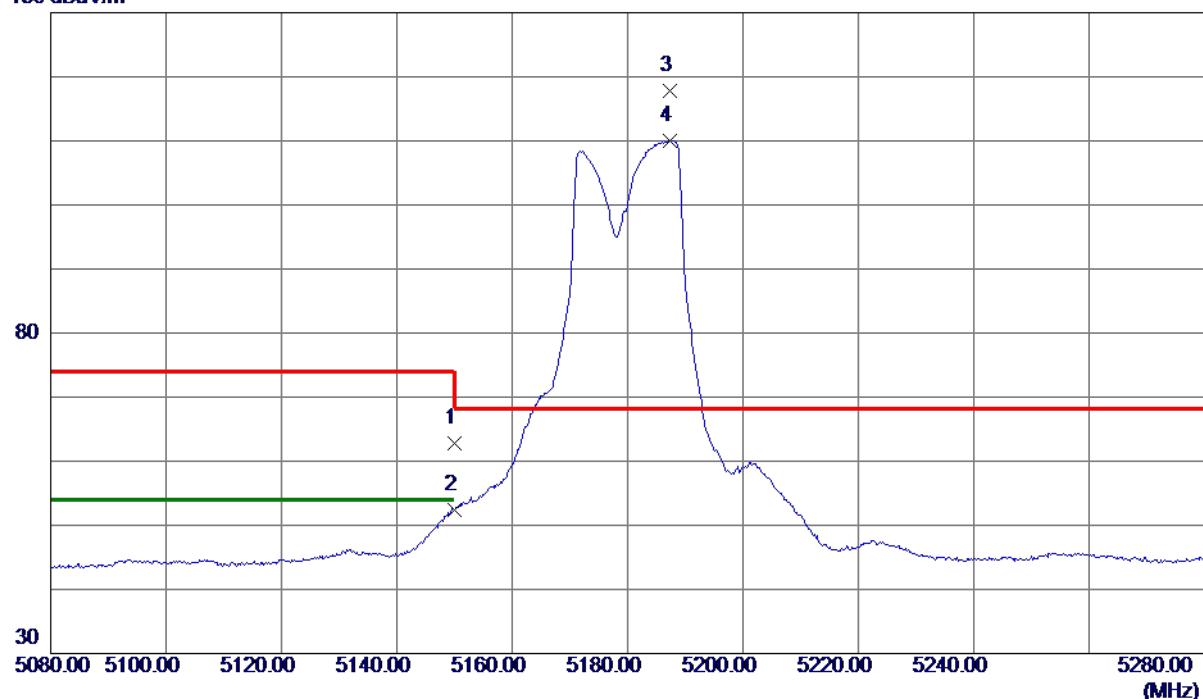
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5150.0000	47.92	14.91	62.83	74.00	-11.17	Peak	
2	5150.0000	37.49	14.91	52.40	54.00	-1.60	AVG	
3 *	5187.4000	102.73	14.99	117.72	68.30	49.42	Peak	No Limit
4	5187.4000	95.06	14.99	110.05	999.00	-888.95	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



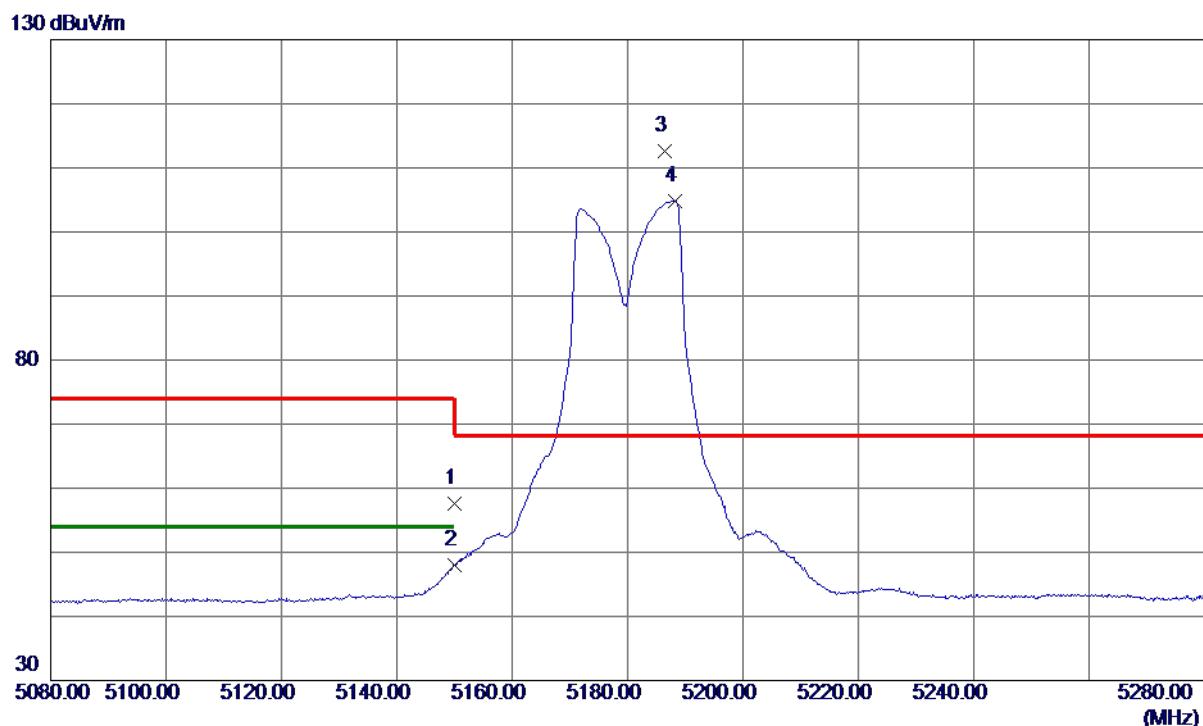
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10360.2500	52.42	12.89	65.31	68.30	-2.99	Peak	

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



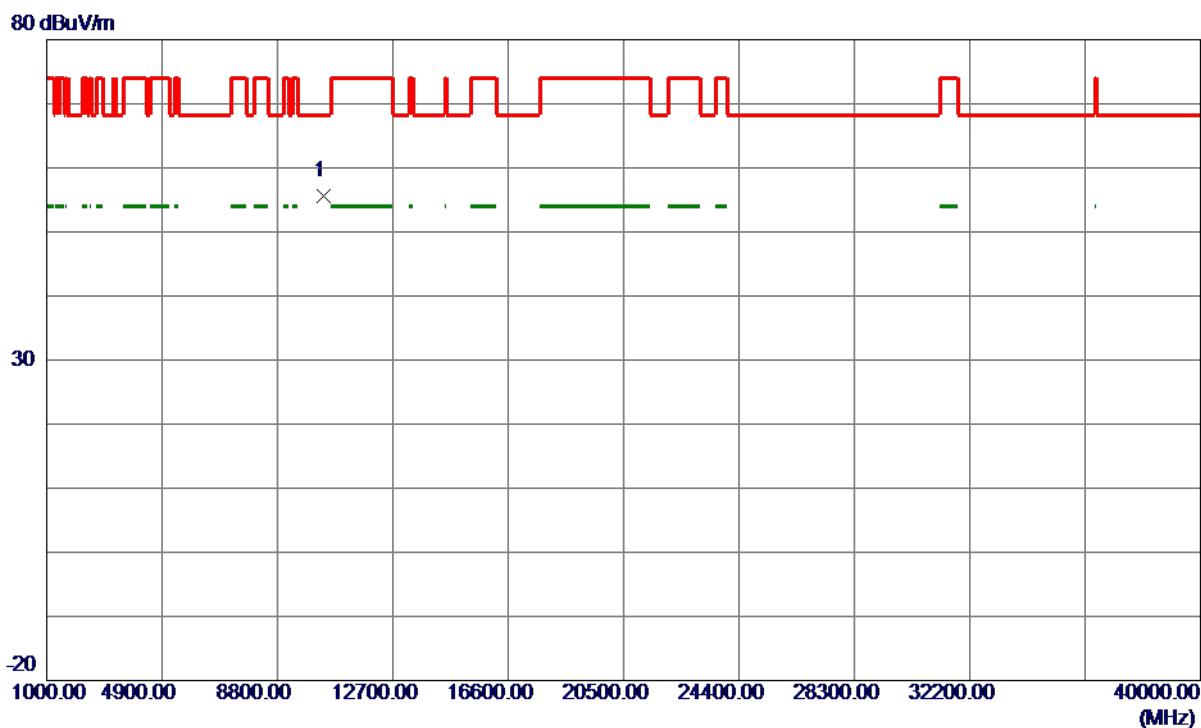
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5150.0000	42.73	14.91	57.64	74.00	-16.36	Peak	
2	5150.0000	33.03	14.91	47.94	54.00	-6.06	AVG	
3 *	5186.4000	97.54	14.99	112.53	68.30	44.23	Peak	No Limit
4	5188.2000	89.82	14.99	104.81	999.00	-894.19	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.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10353.2000	42.74	12.88	55.62	68.30	-12.68	Peak	

REMARKS:

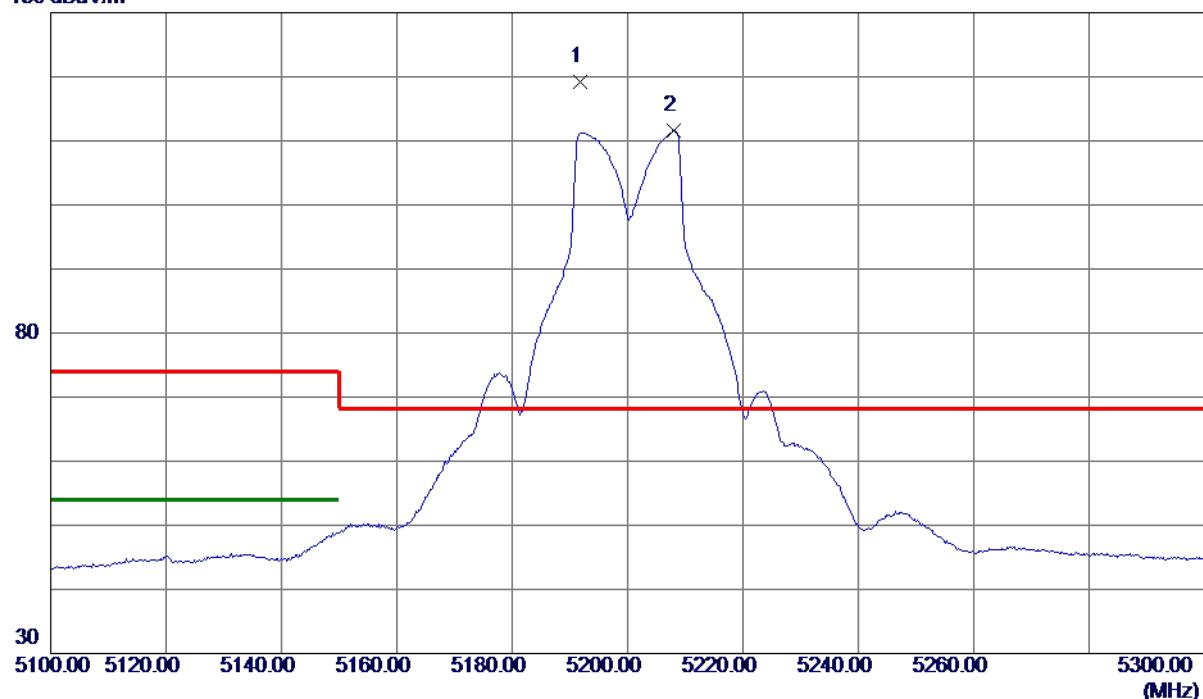
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5191.8000	104.29	15.00	119.29	68.30	50.99	Peak	No Limit
2	5208.0000	96.53	15.03	111.56	999.00	-887.44	AVG	No Limit

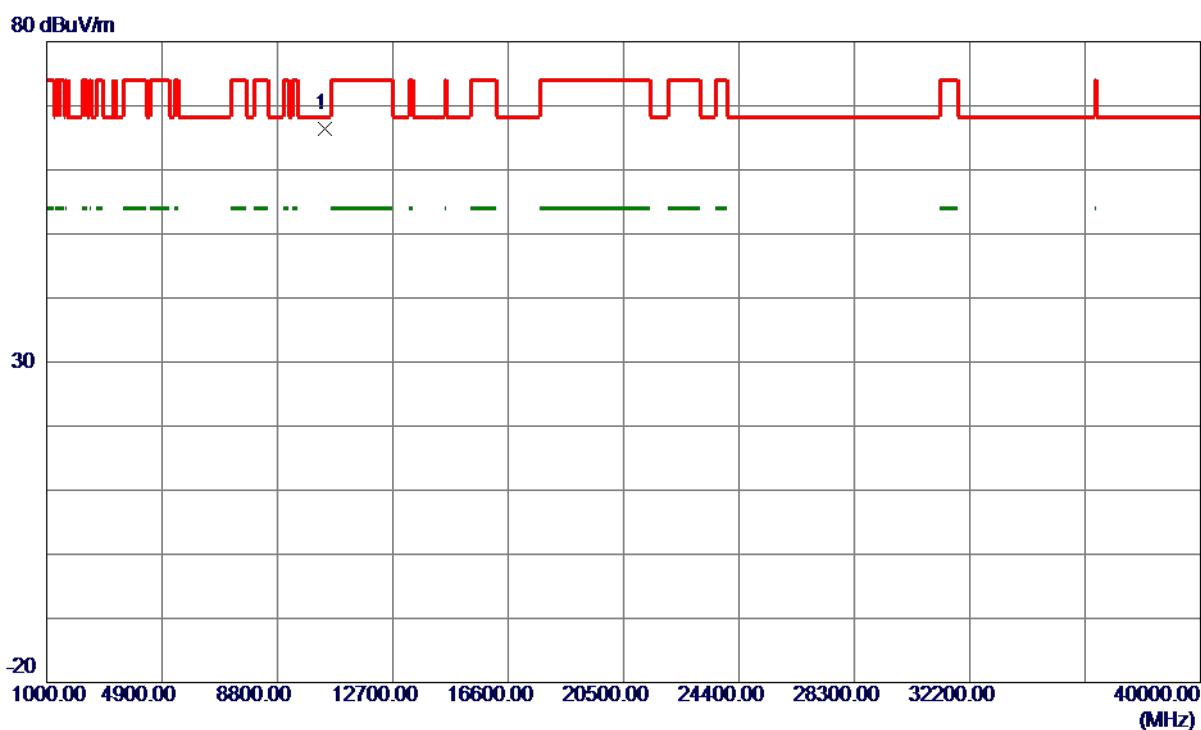
REMARKS:

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

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



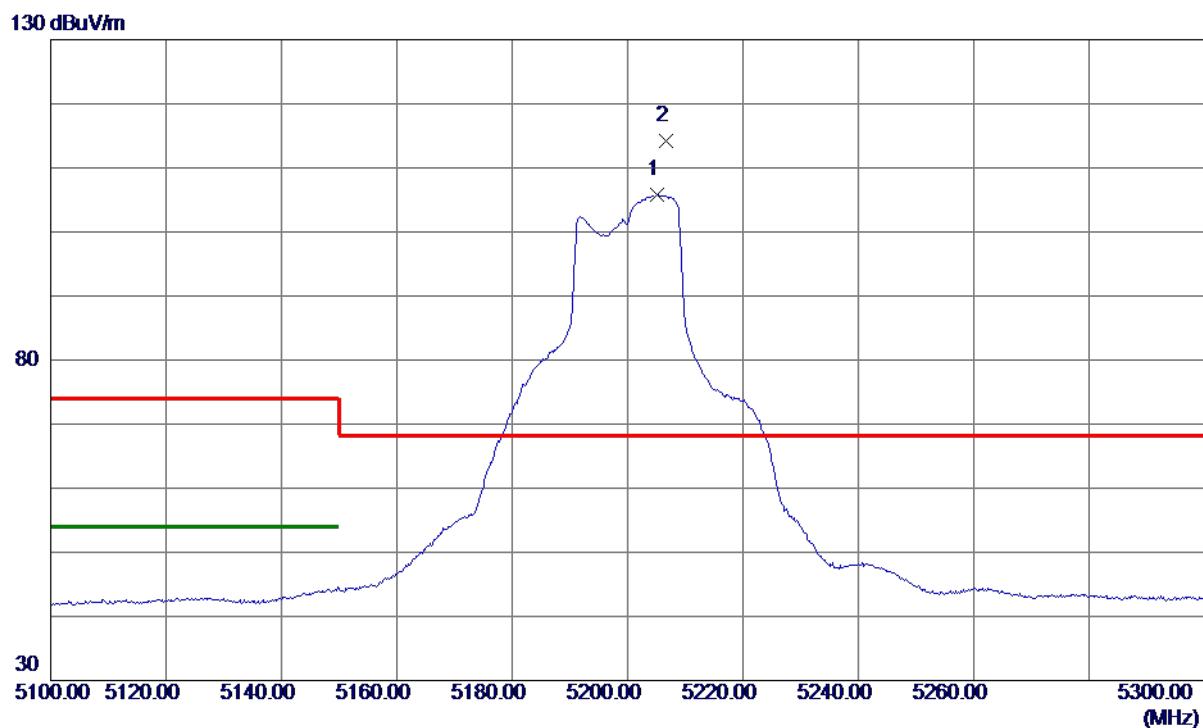
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10398.8000	53.39	12.97	66.36	68.30	-1.94	Peak	

REMARKS:

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

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

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5205.2000	90.71	15.02	105.73	999.00	-893.27	AVG	No Limit
2 *	5206.6000	99.11	15.03	114.14	68.30	45.84	Peak	No Limit

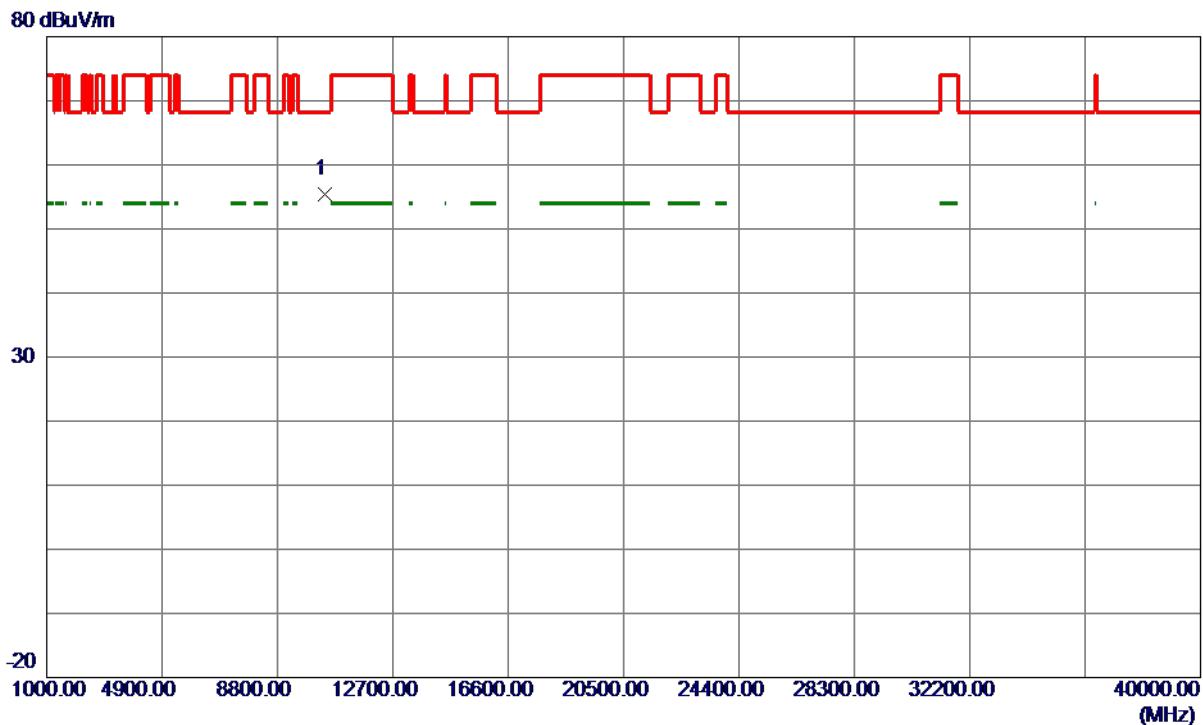
REMARKS:

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

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



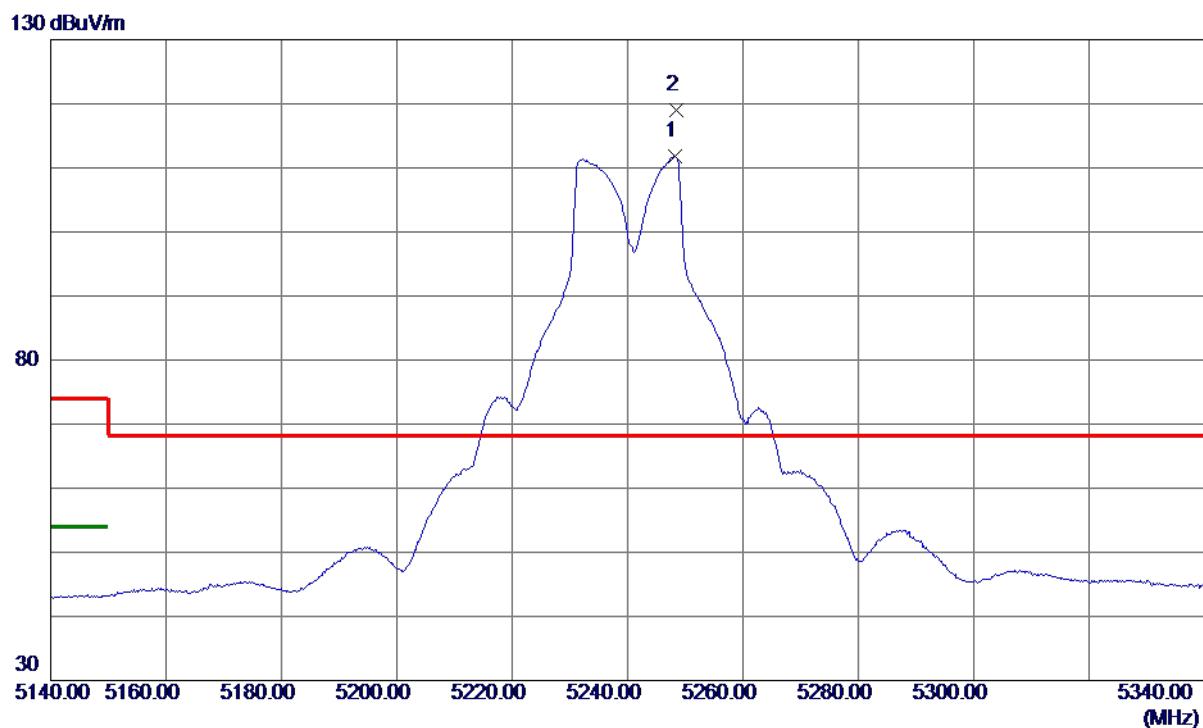
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10395.6000	42.36	12.96	55.32	68.30	-12.98	Peak	

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



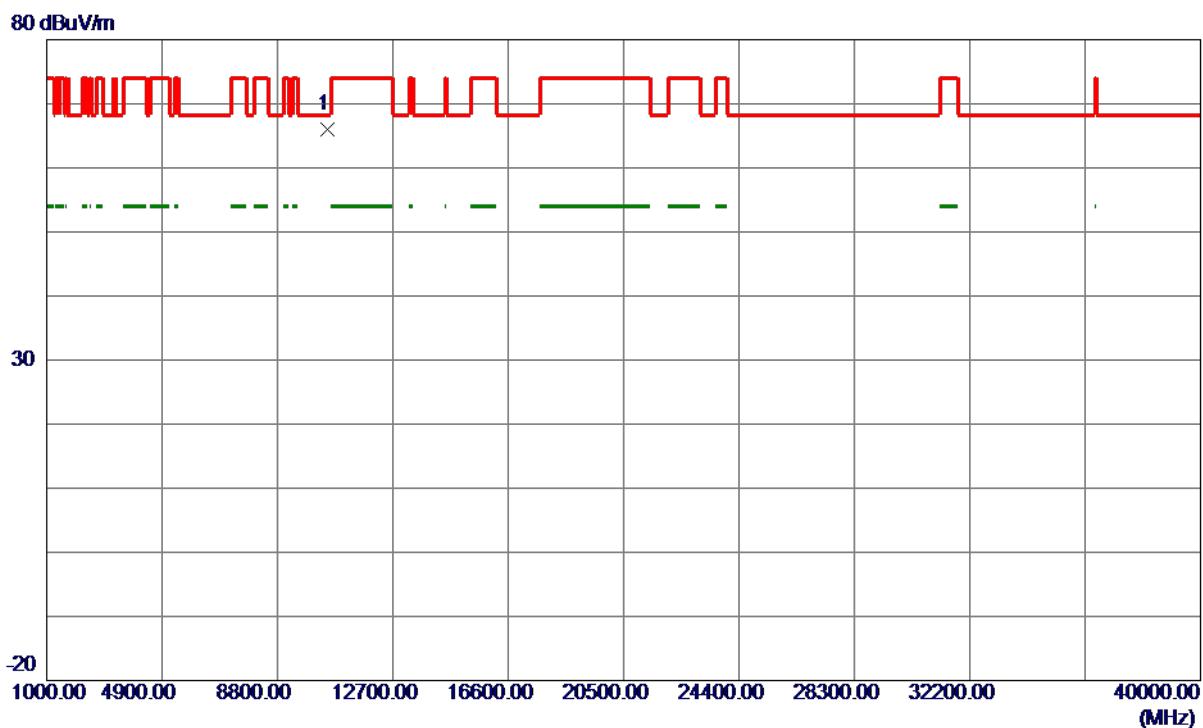
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5248.2000	96.67	15.11	111.78	999.00	-887.22	AVG	No Limit
2 *	5248.4000	103.84	15.11	118.95	68.30	50.65	Peak	No Limit

REMARKS:

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

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

Vertical



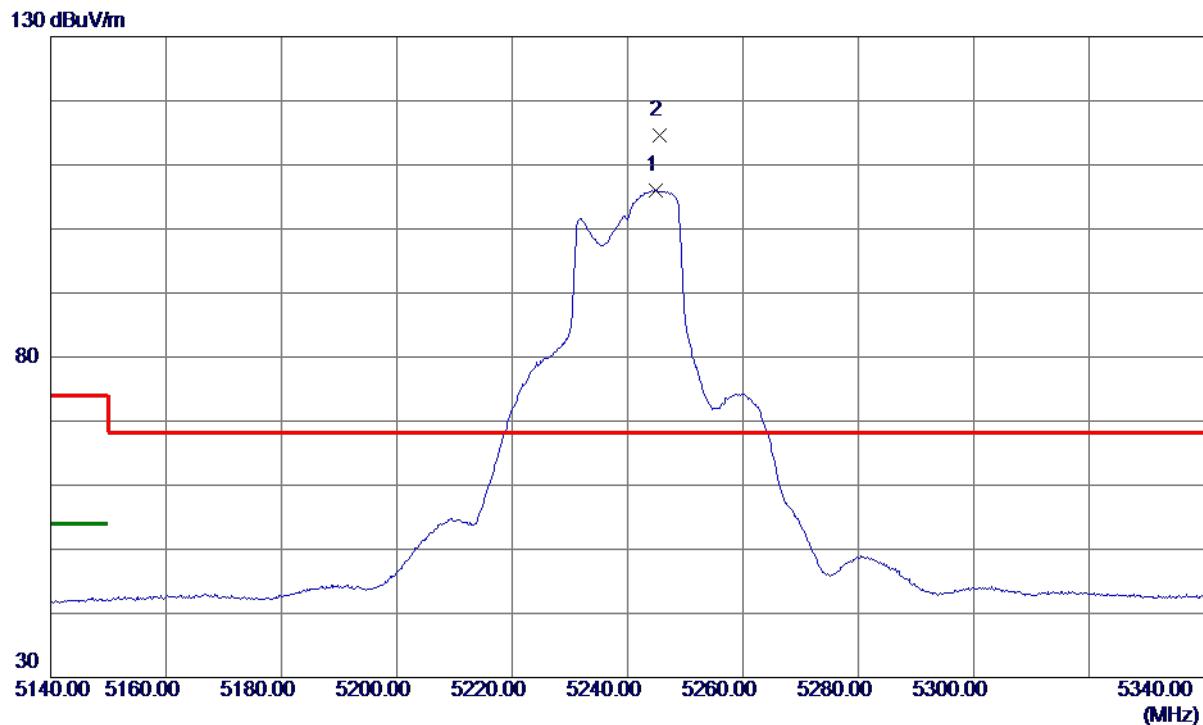
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10480.3500	52.78	13.14	65.92	68.30	-2.38	Peak	

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5244.8000	90.85	15.11	105.96	999.00	-893.04	AVG	No Limit
2 *	5245.6000	99.45	15.11	114.56	68.30	46.26	Peak	No Limit

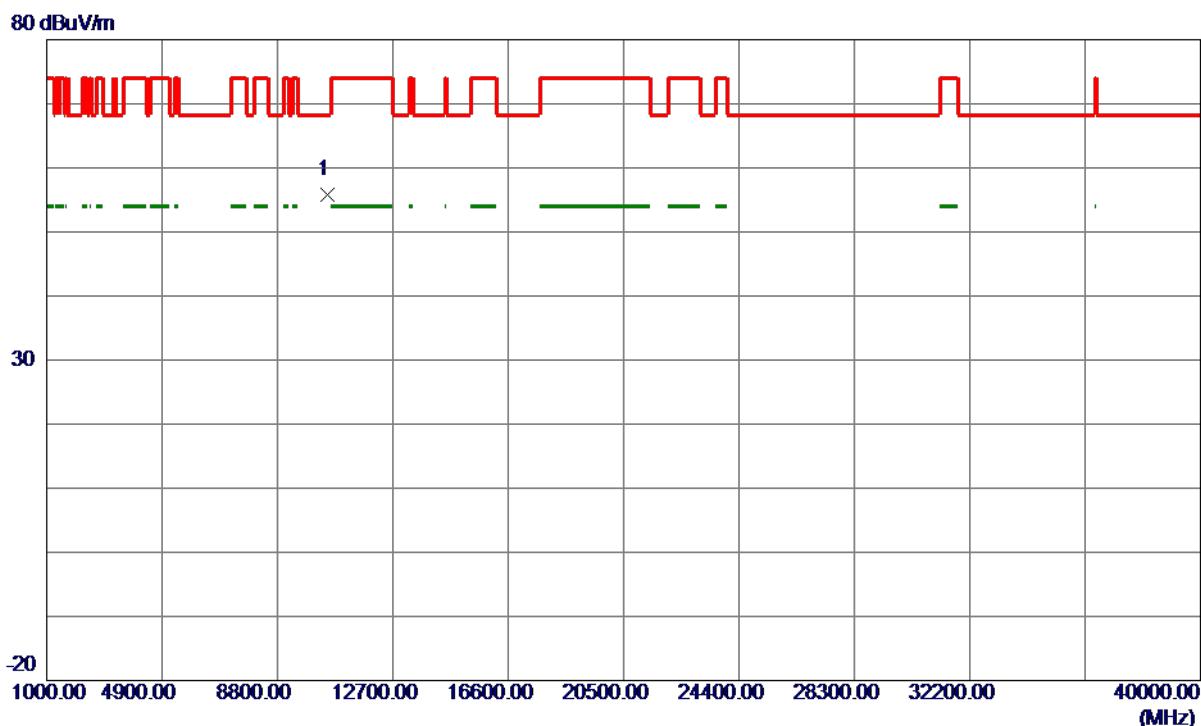
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10476.8500	42.68	13.13	55.81	68.30	-12.49	Peak	

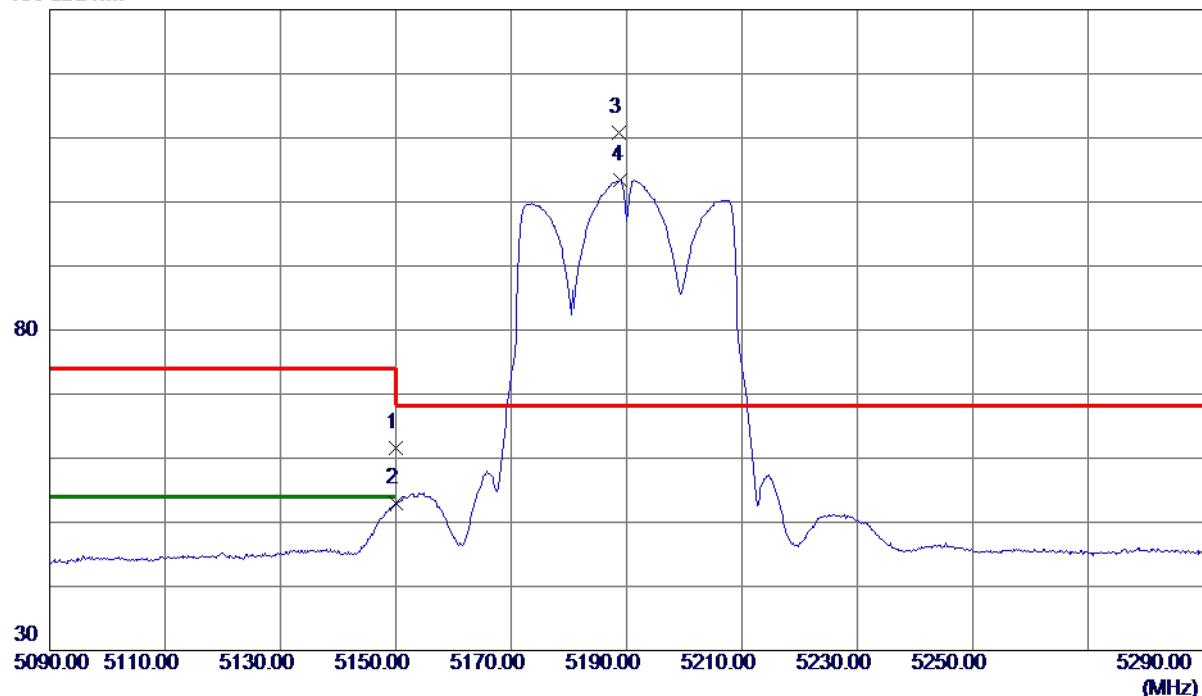
REMARKS:

- (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



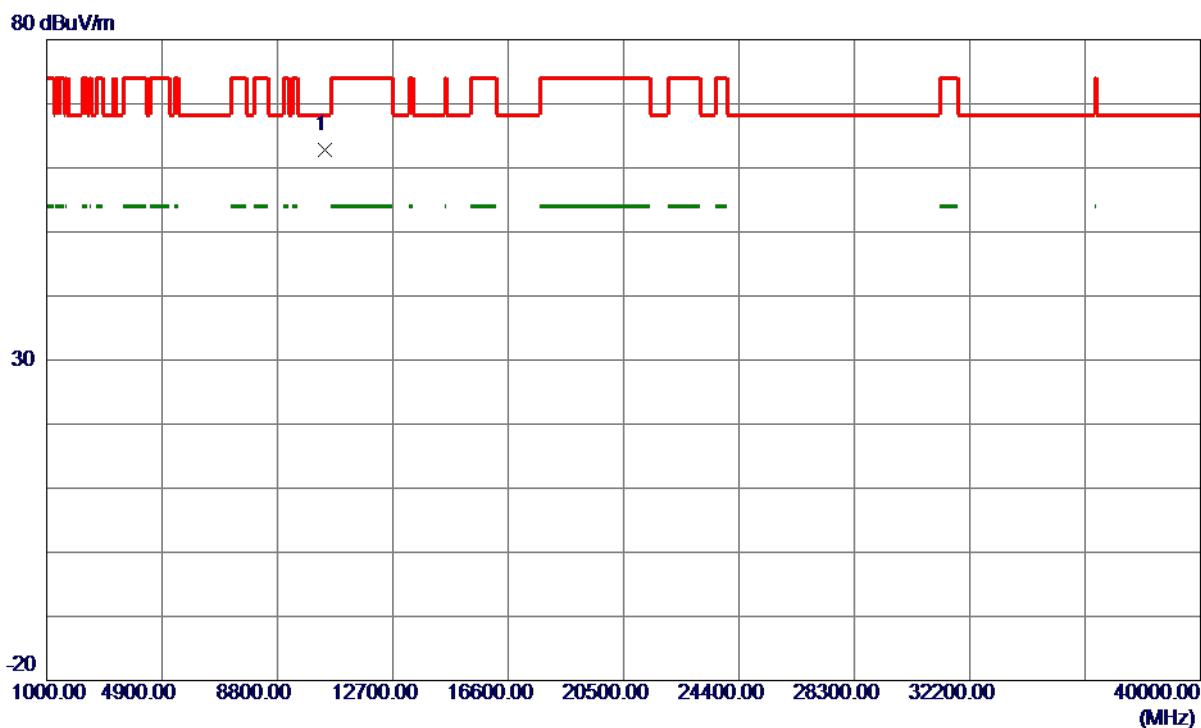
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	46.65	14.91	61.56	74.00	-12.44	Peak	
2	5150.0000	38.03	14.91	52.94	54.00	-1.06	AVG	
3 *	5188.6000	95.76	14.99	110.75	68.30	42.45	Peak	No Limit
4	5189.0000	88.42	14.99	103.41	999.00	-895.59	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



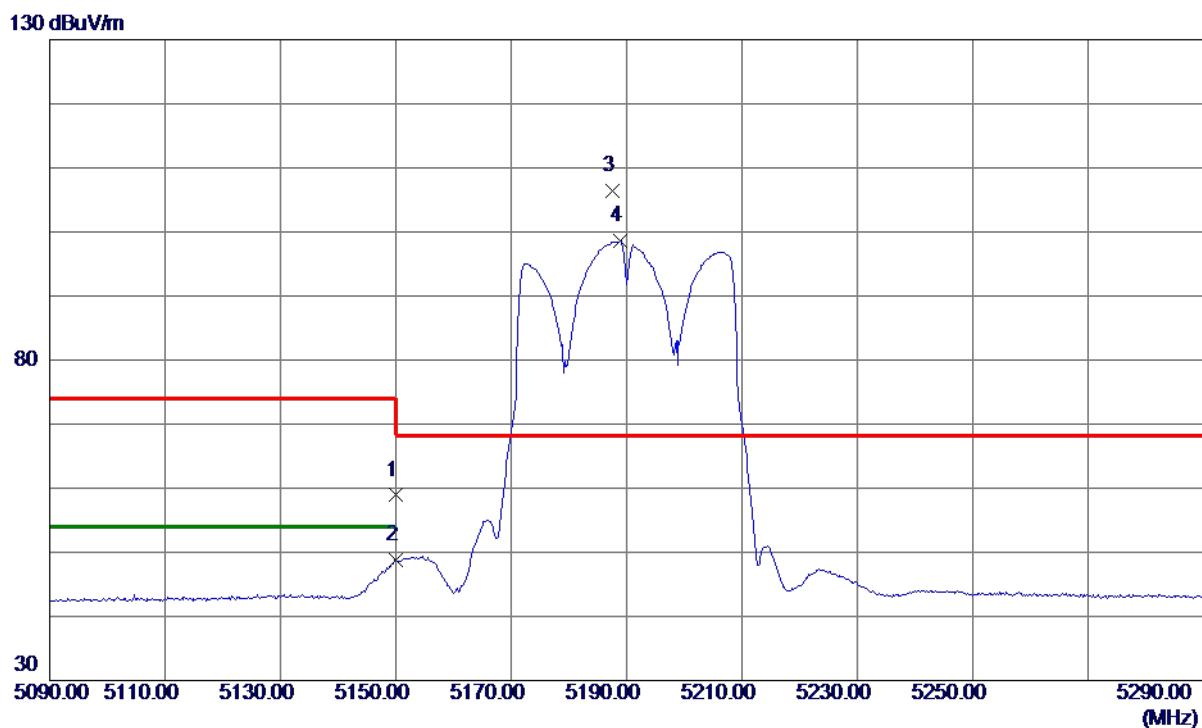
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10391.1500	49.81	12.95	62.76	68.30	-5.54	Peak	

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



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	43.99	14.91	58.90	74.00	-15.10	Peak	
2	5150.0000	33.90	14.91	48.81	54.00	-5.19	AVG	
3 *	5187.6000	91.39	14.99	106.38	68.30	38.08	Peak	No Limit
4	5188.8000	83.58	14.99	98.57	999.00	-900.43	AVG	No Limit

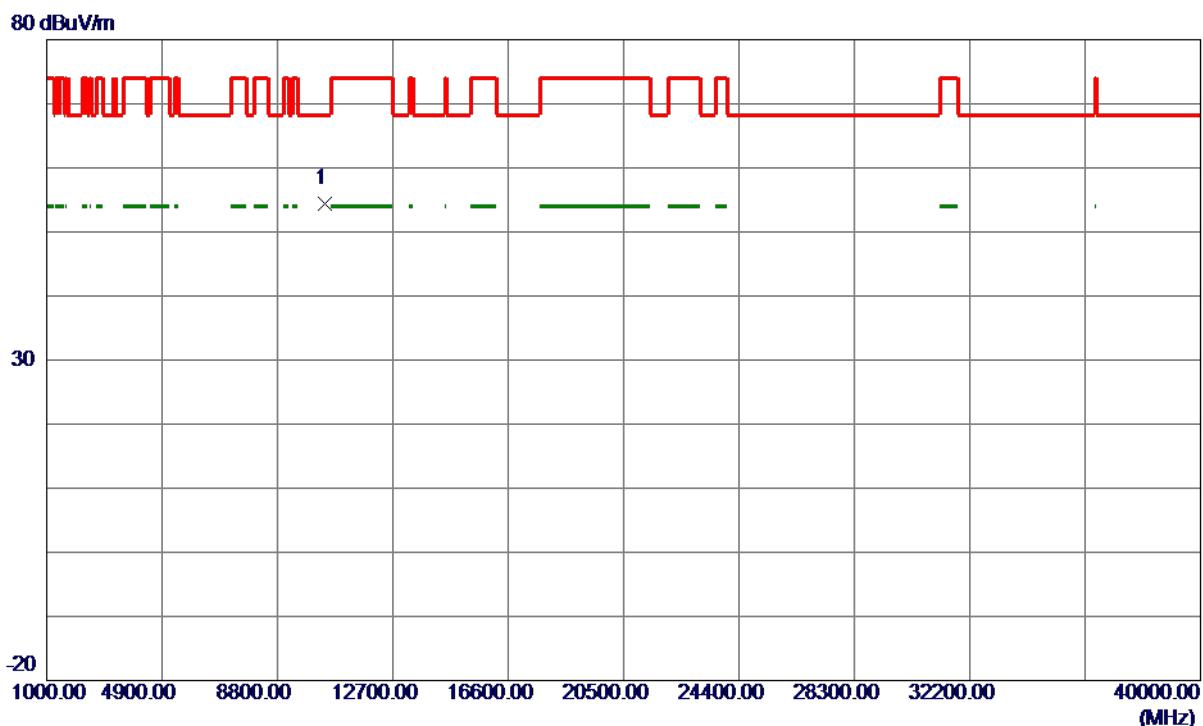
REMARKS:

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

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



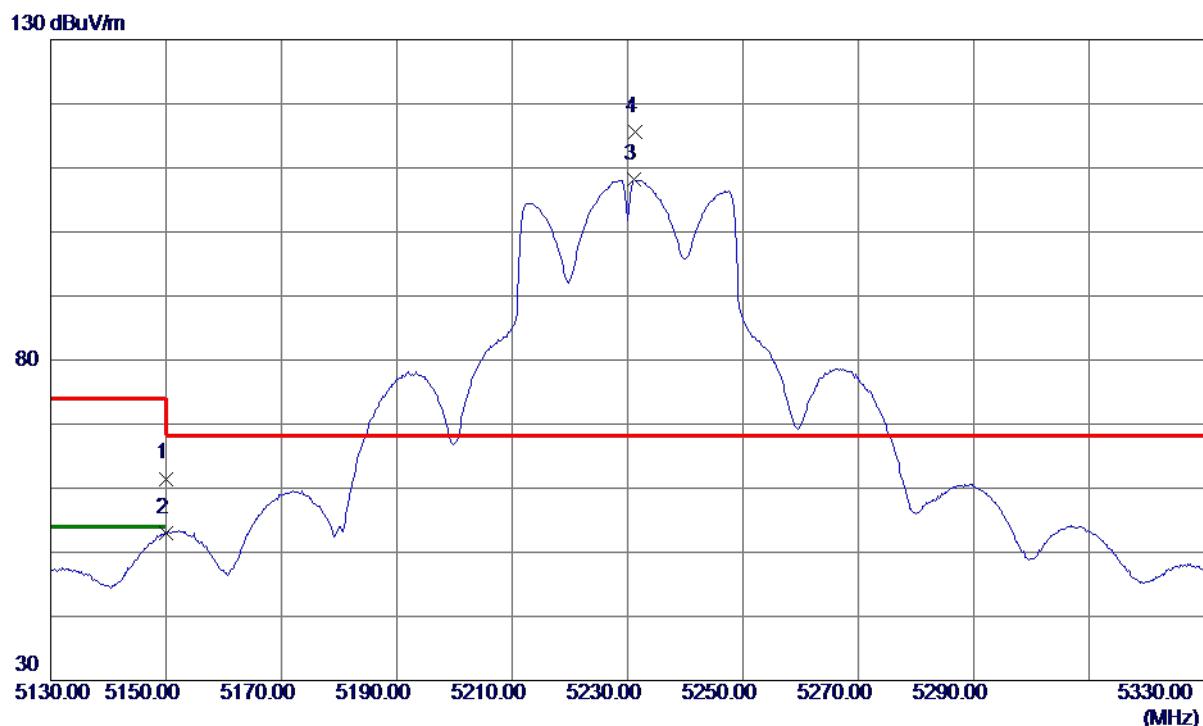
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10392.8000	41.48	12.96	54.44	68.30	-13.86	Peak	

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



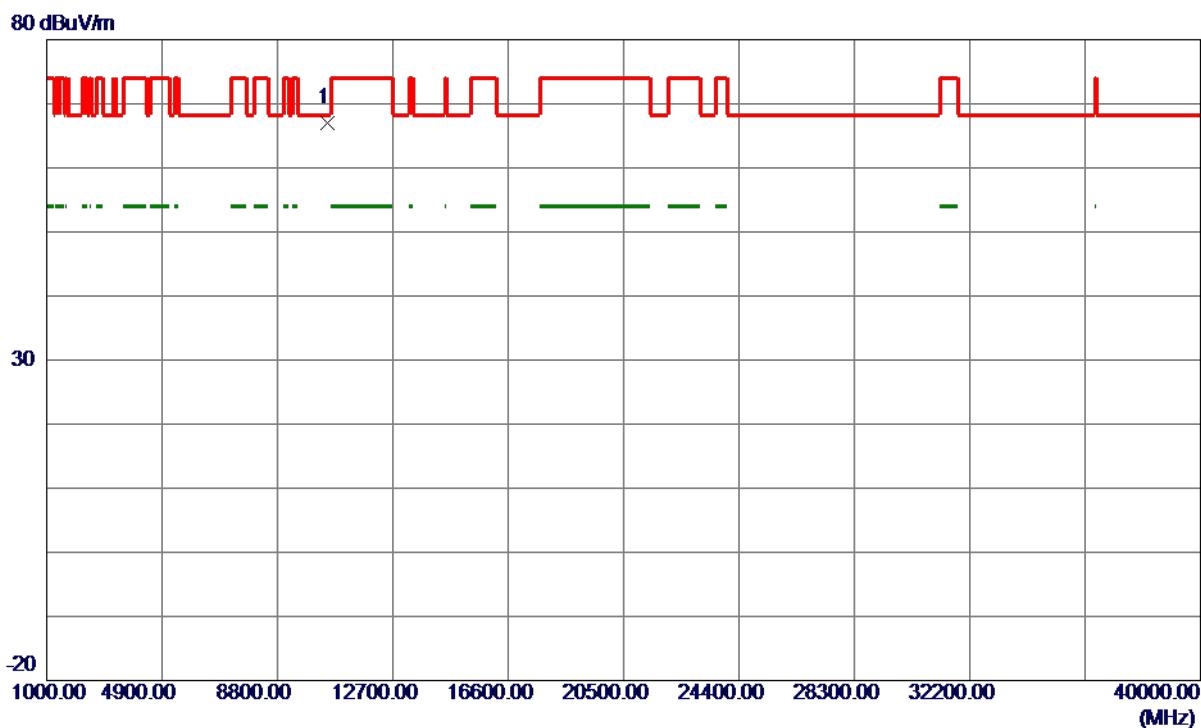
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5150.0000	46.59	14.91	61.50	74.00	-12.50	Peak	
2	5150.0000	38.08	14.91	52.99	54.00	-1.01	AVG	
3	5231.2000	93.06	15.08	108.14	999.00	-890.86	AVG	No Limit
4 *	5231.4000	100.47	15.08	115.55	68.30	47.25	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 (VHT40) Mode 5230 MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10472.000	53.79	13.12	66.91	68.30	-1.39	Peak	

REMARKS:

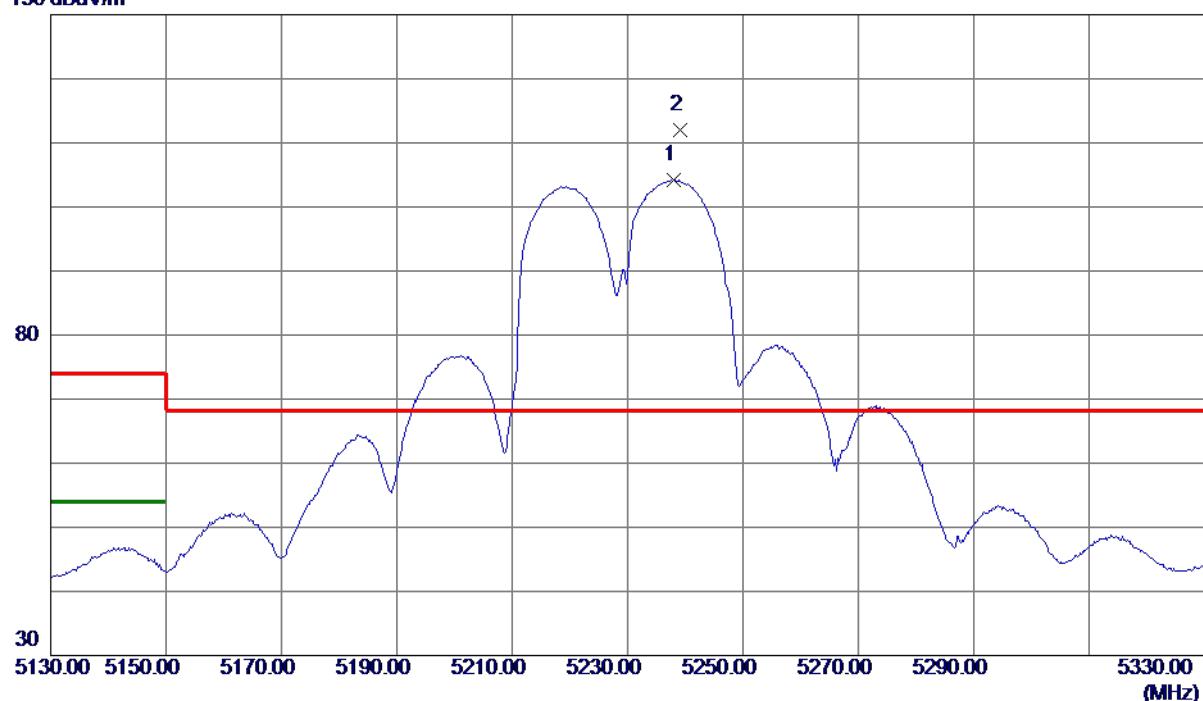
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

130 dBuV/m



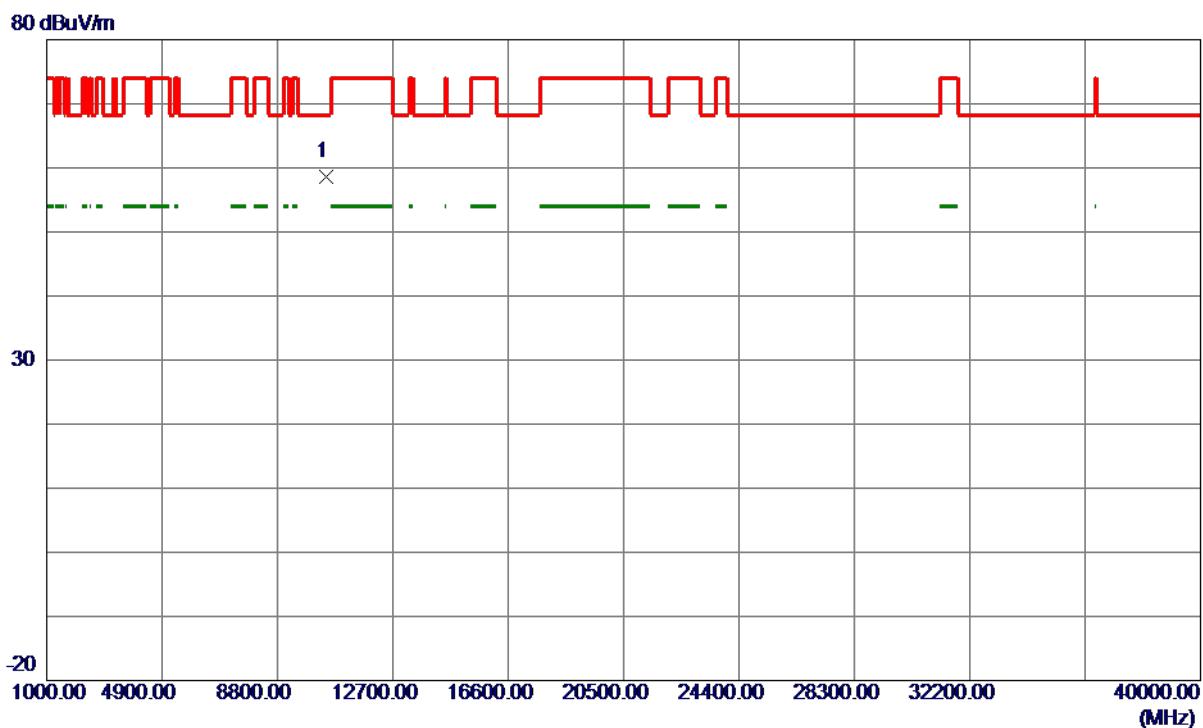
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5238.0000	89.11	15.09	104.20	999.00	-894.80	AVG	No Limit
2 *	5239.2000	96.88	15.10	111.98	68.30	43.68	Peak	No Limit

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10450.0500	45.57	13.07	58.64	68.30	-9.66	Peak	

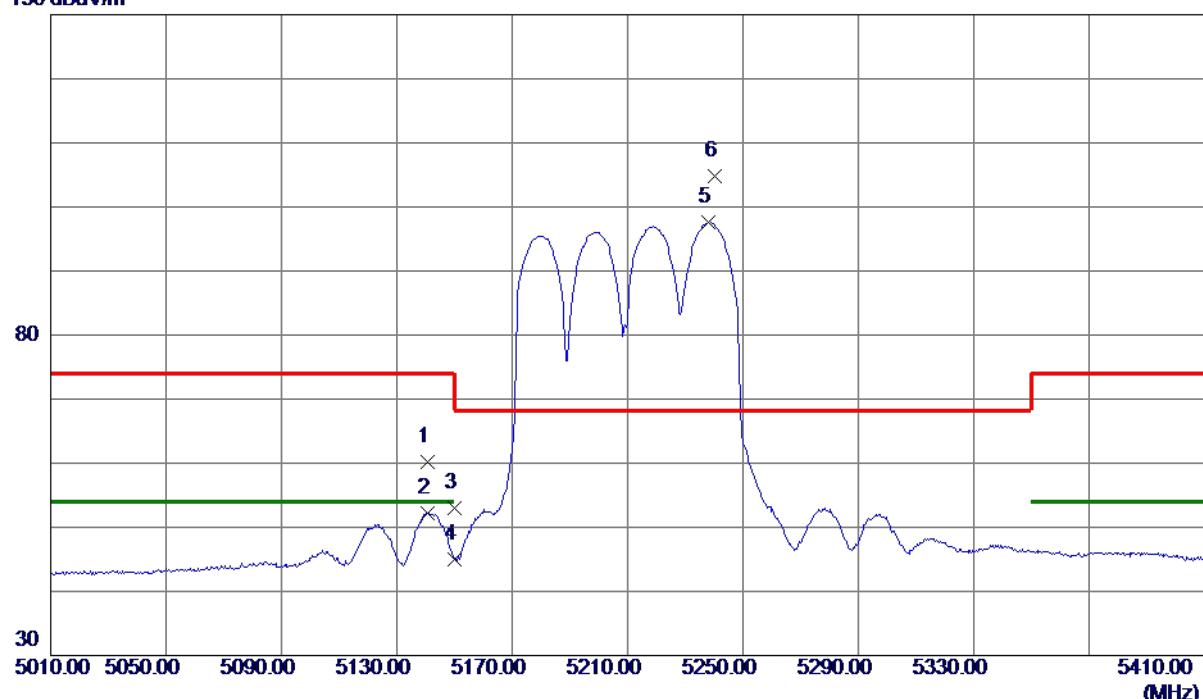
REMARKS:

- (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



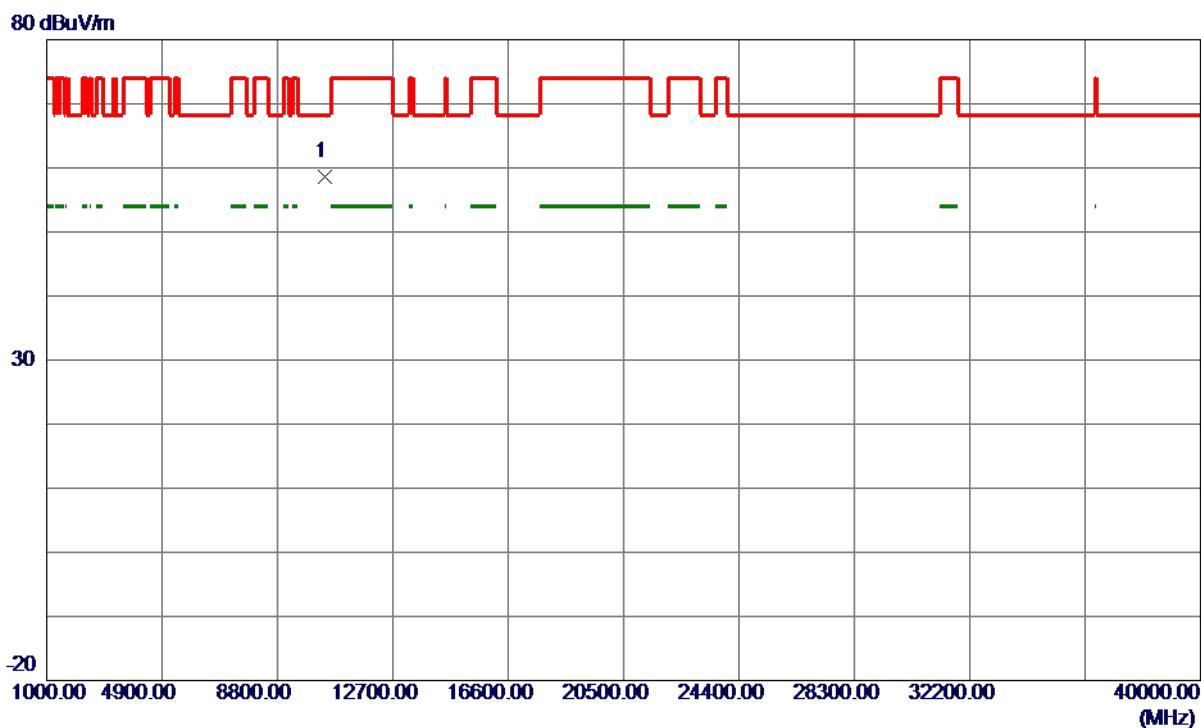
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5140.8000	45.27	14.89	60.16	74.00	-13.84	Peak	
2	5140.8000	37.27	14.89	52.16	54.00	-1.84	AVG	
3	5150.0000	38.17	14.91	53.08	74.00	-20.92	Peak	
4	5150.0000	30.04	14.91	44.95	54.00	-9.05	AVG	
5	5238.0000	82.45	15.09	97.54	999.00	-901.46	AVG	No Limit
6 *	5240.4000	89.74	15.10	104.84	68.30	36.54	Peak	No Limit

REMARKS:

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

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10419.8000	45.52	13.01	58.53	68.30	-9.77	Peak	

REMARKS:

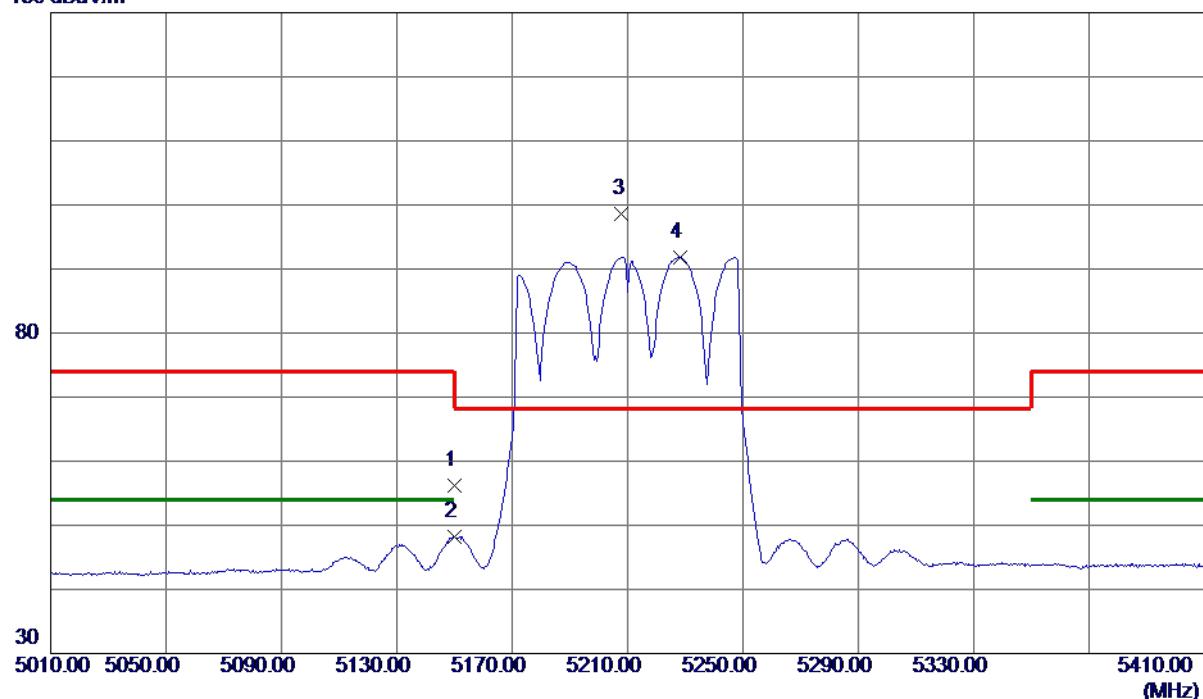
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Orthogonal Axis	X
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Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz
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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	41.37	14.91	56.28	74.00	-17.72	Peak	
2	5150.0000	33.29	14.91	48.20	54.00	-5.80	AVG	
3 *	5208.0000	83.63	15.03	98.66	68.30	30.36	Peak	No Limit
4	5228.4000	76.81	15.07	91.88	999.00	-907.12	AVG	No Limit

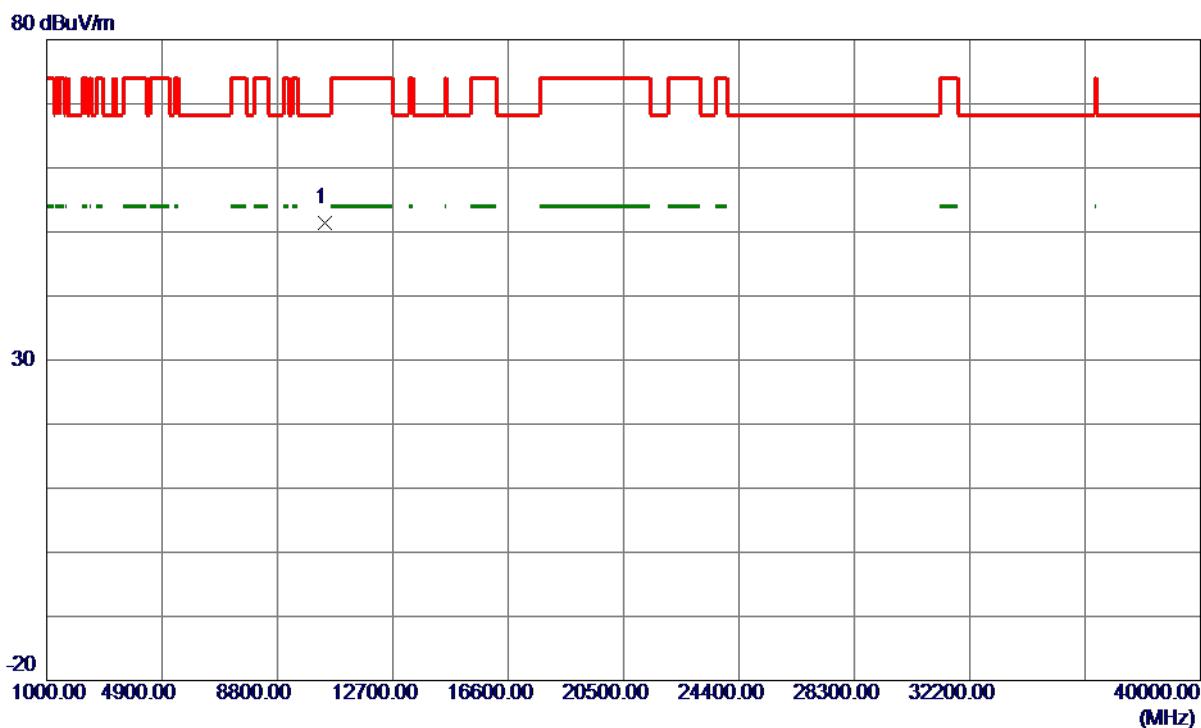
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	10418.9500	38.42	13.01	51.43	68.30	-16.87	Peak	

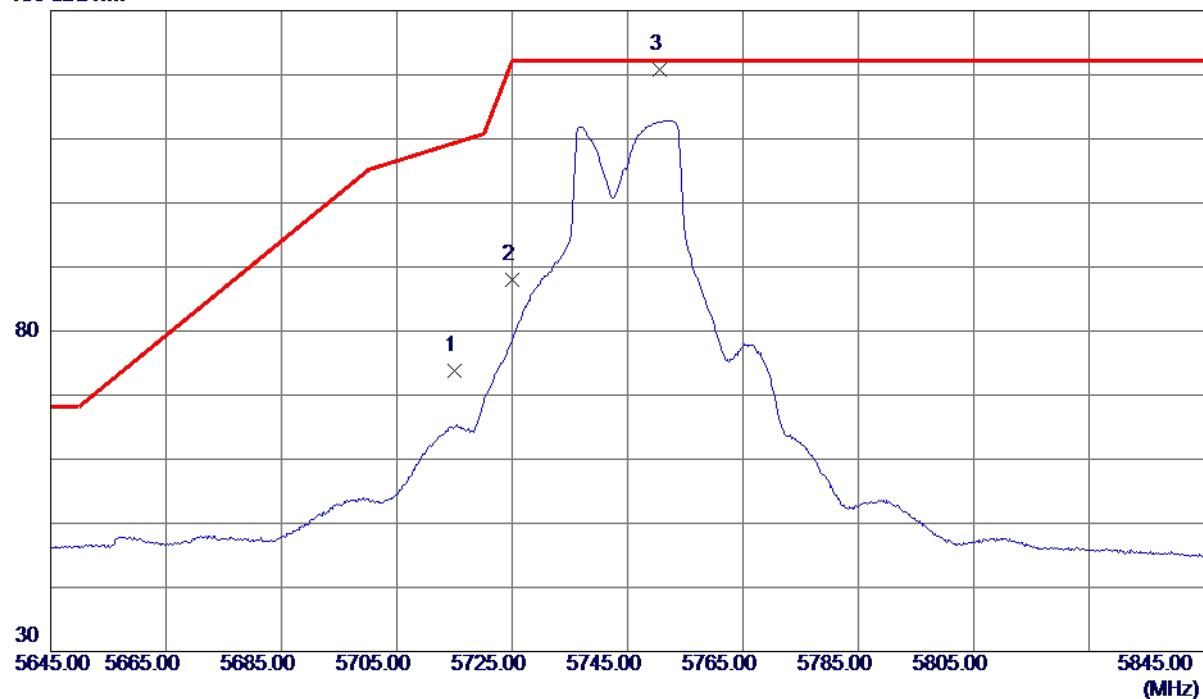
REMARKS:

- (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

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	57.25	16.48	73.73	109.40	-35.67	Peak	
2	5725.0000	71.52	16.52	88.04	122.20	-34.16	Peak	
3 *	5750.6000	104.13	16.62	120.75	122.20	-1.45	Peak	No Limit

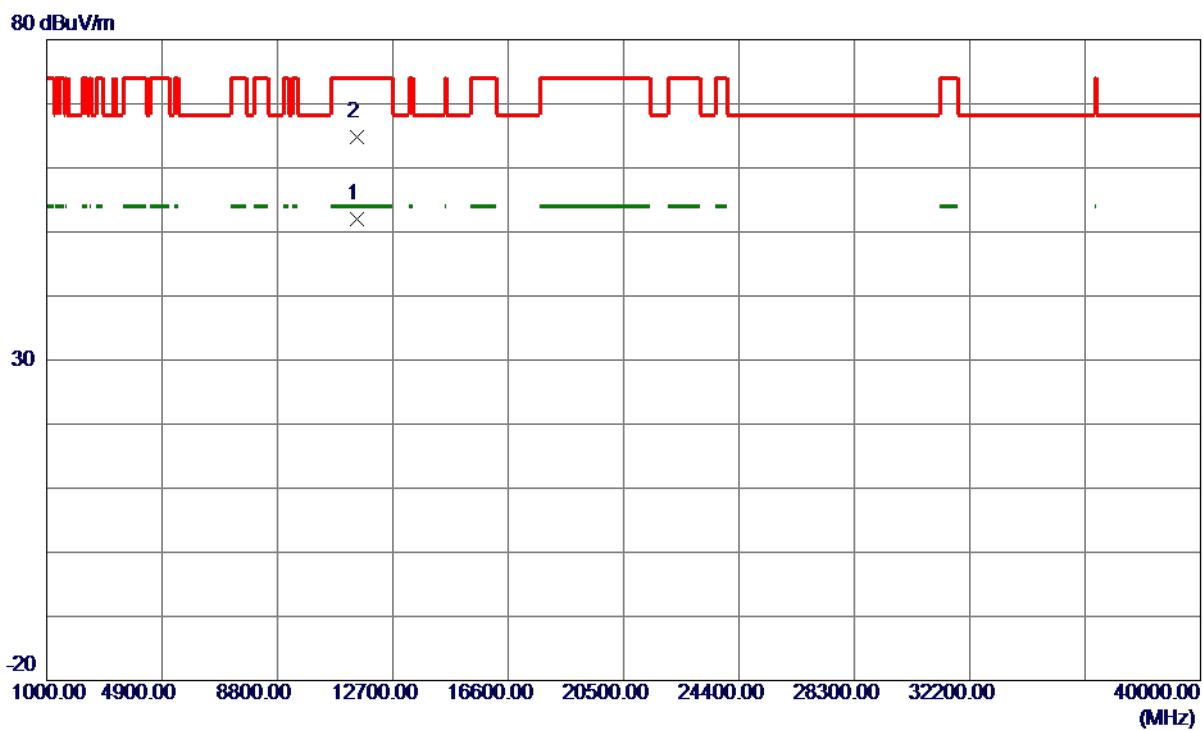
REMARKS:

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

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



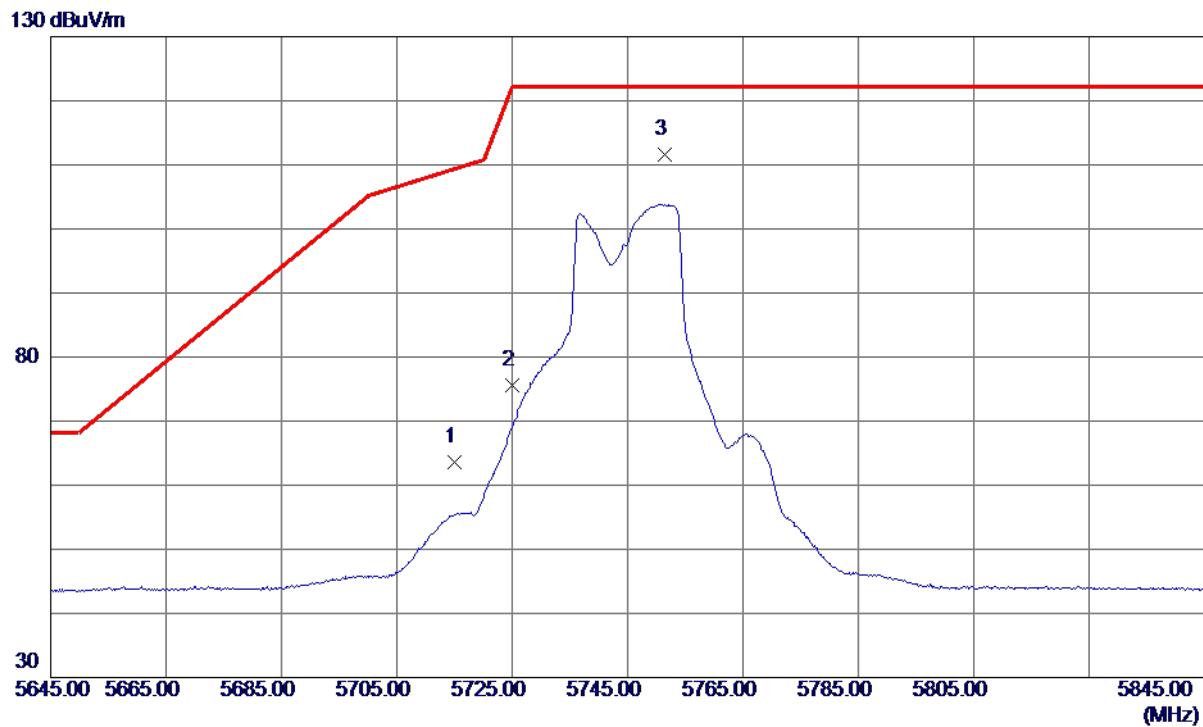
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11493.1500	37.98	14.09	52.07	54.00	-1.93	AVG	
2	11493.9500	50.64	14.09	64.73	74.00	-9.27	Peak	

REMARKS:

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

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

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5715.0000	47.11	16.48	63.59	109.40	-45.81	Peak	
2	5725.0000	59.15	16.52	75.67	122.20	-46.53	Peak	
3 *	5751.4000	94.89	16.63	111.52	122.20	-10.68	Peak	No Limit

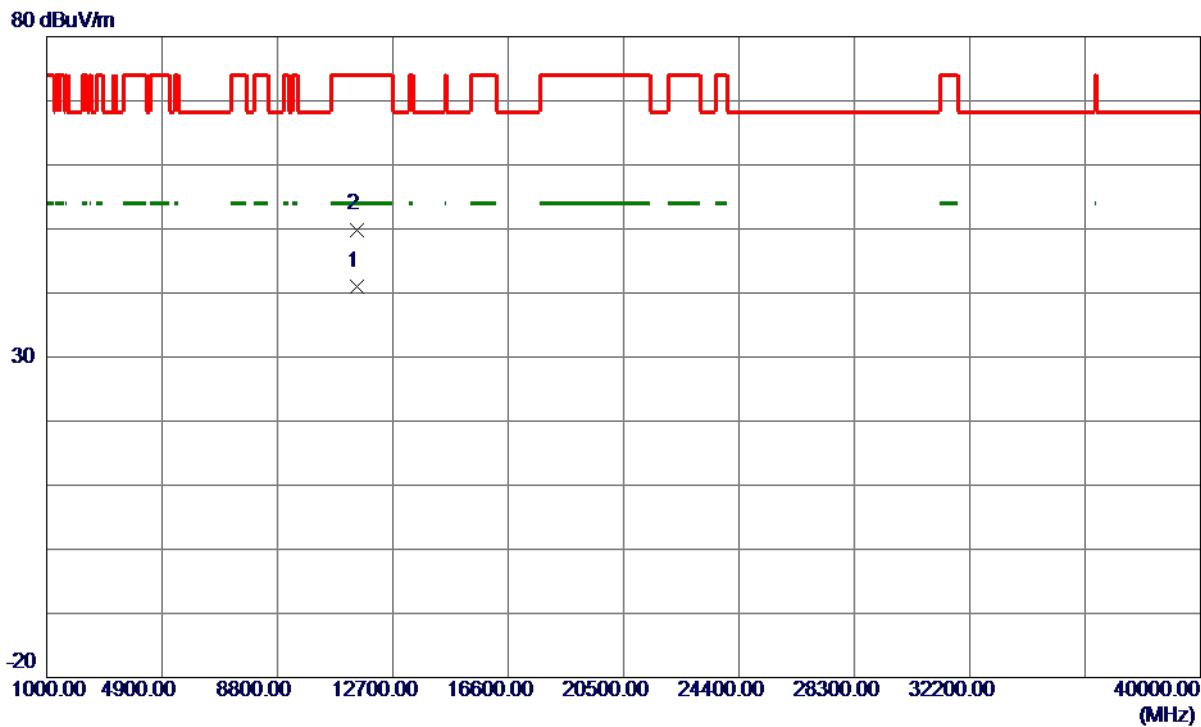
REMARKS:

- (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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11490.0500	27.01	14.08	41.09	54.00	-12.91	AVG	
2	11492.2500	35.81	14.09	49.90	74.00	-24.10	Peak	

REMARKS:

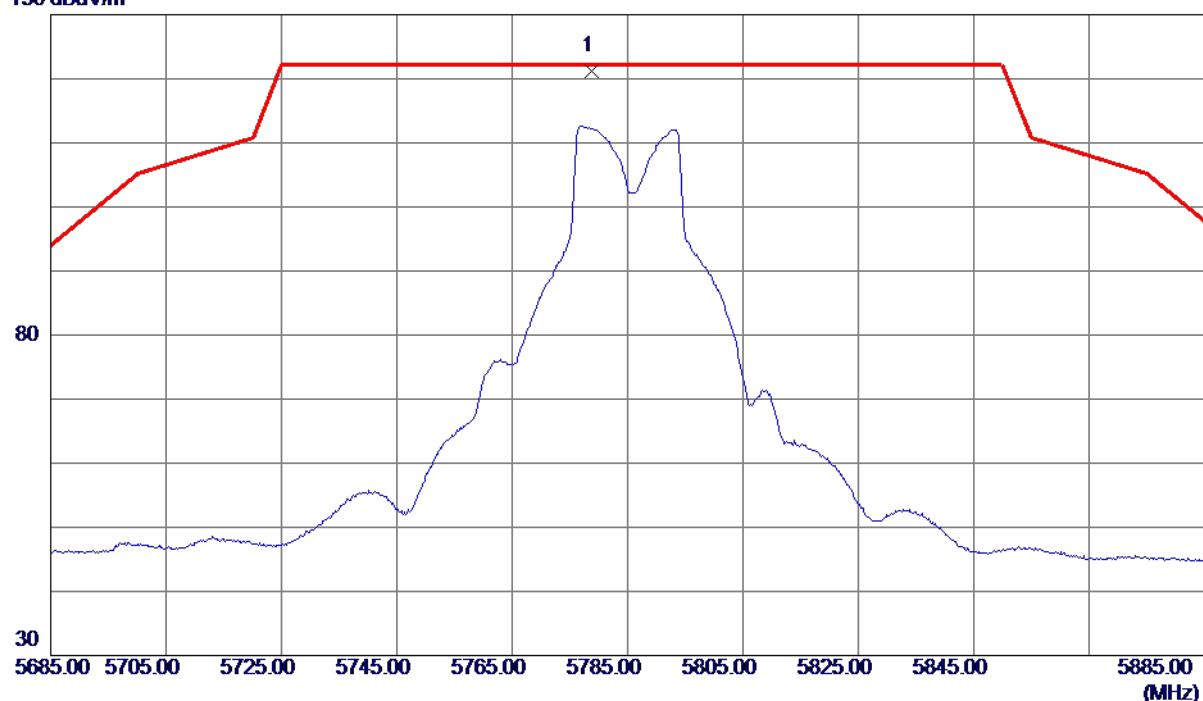
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

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

130 dBuV/m



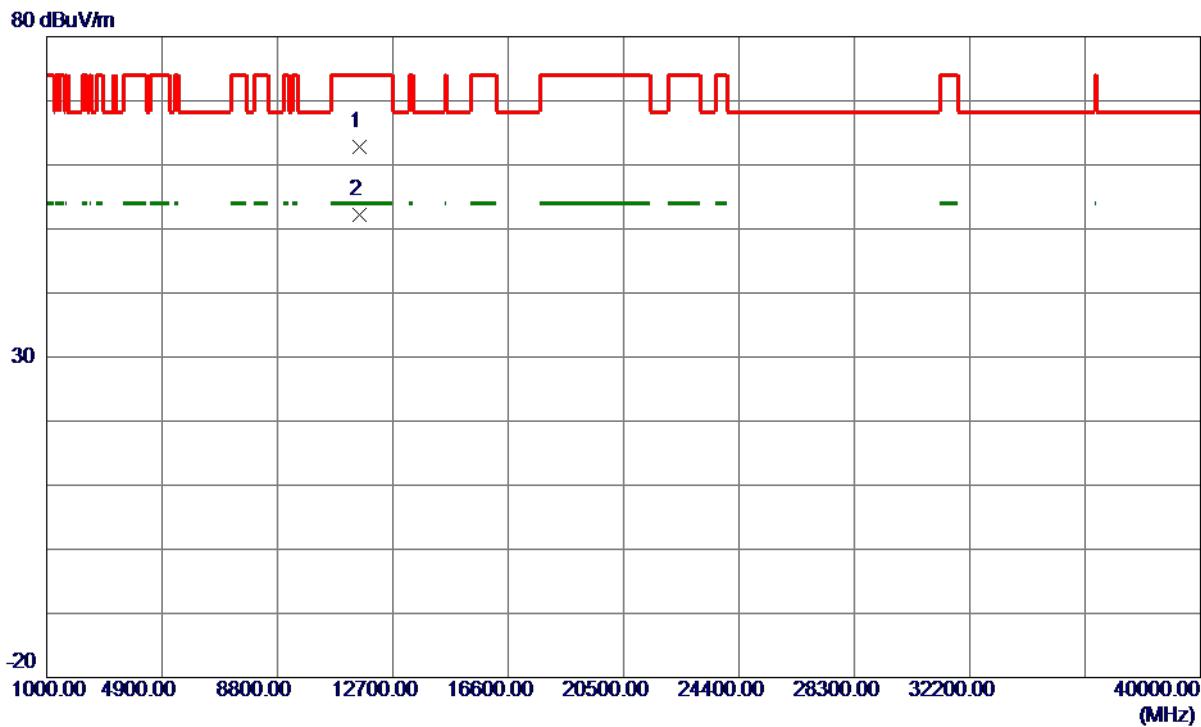
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5778.8000	104.40	16.74	121.14	122.20	-1.06	Peak	No Limit

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



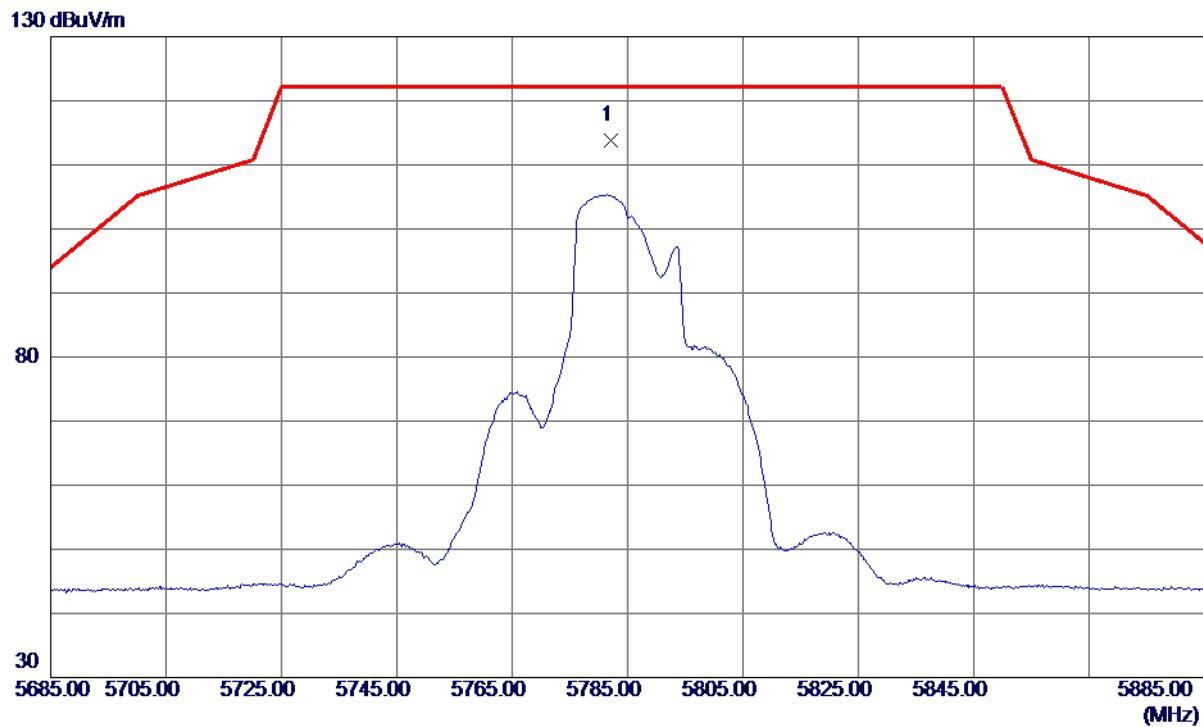
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11567.0500	48.71	14.15	62.86	74.00	-11.14	Peak	
2 *	11568.9500	37.96	14.15	52.11	54.00	-1.89	AVG	

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



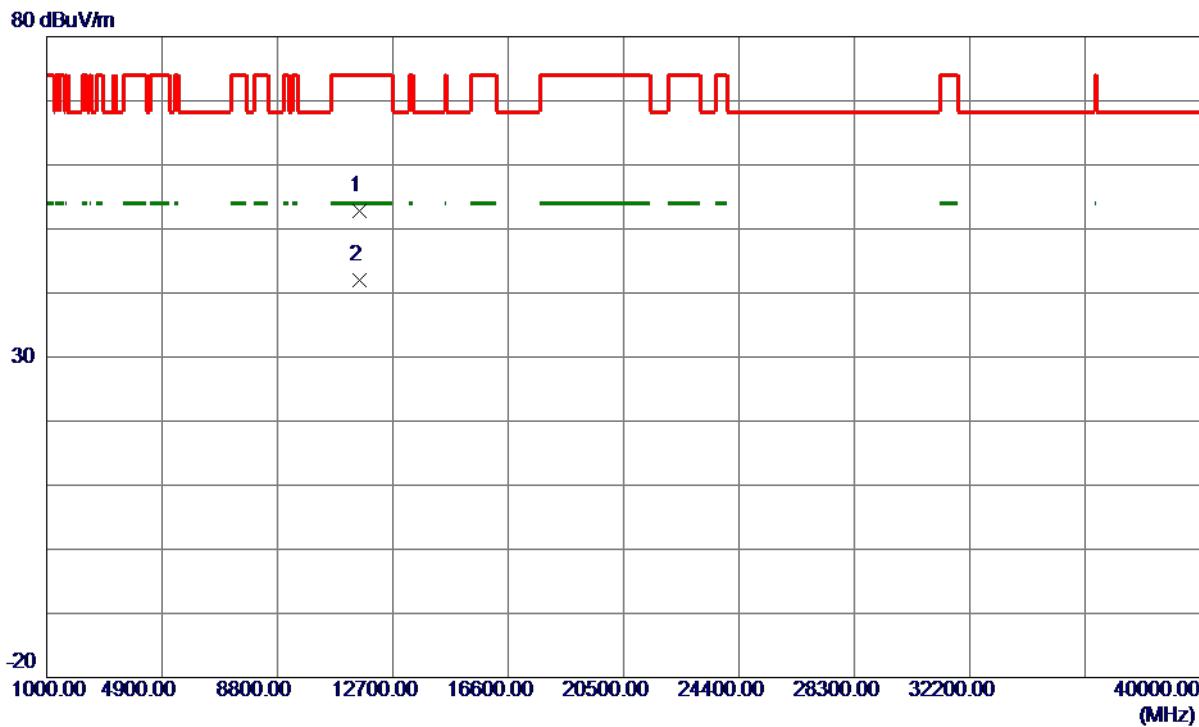
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5782.2000	97.07	16.75	113.82	122.20	-8.38	Peak	No Limit

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



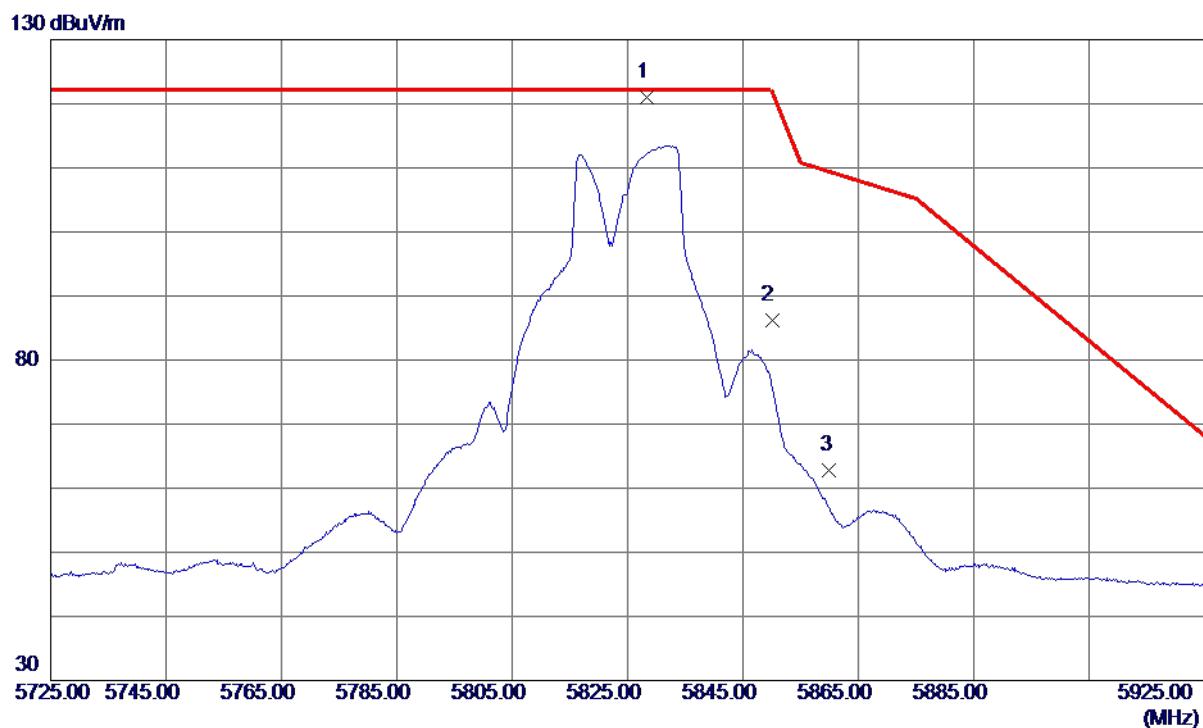
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11568.1000	38.61	14.15	52.76	74.00	-21.24	Peak	
2 *	11570.0000	27.88	14.15	42.03	54.00	-11.97	AVG	

REMARKS:

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

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

Vertical



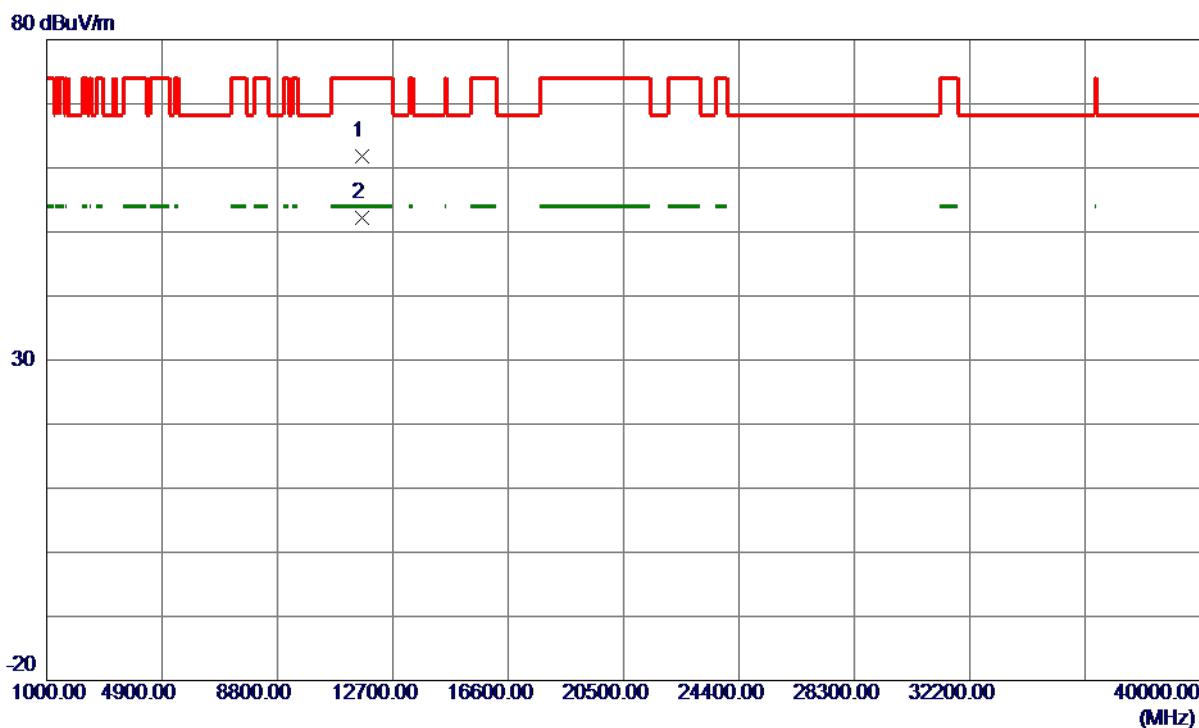
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5828.4000	104.00	16.93	120.93	122.20	-1.27	Peak	No Limit
2	5850.0000	69.20	17.02	86.22	122.20	-35.98	Peak	
3	5860.0000	45.72	17.06	62.78	109.40	-46.62	Peak	

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



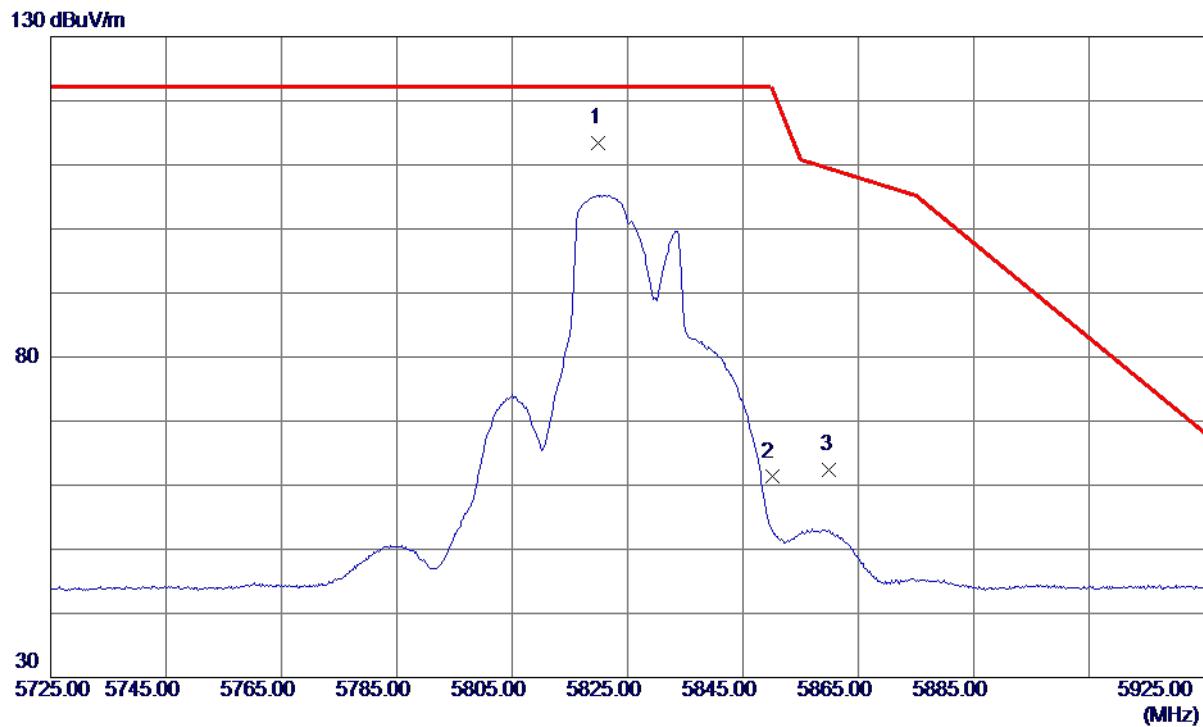
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11642.3500	47.57	14.21	61.78	74.00	-12.22	Peak	
2 *	11646.4500	38.00	14.21	52.21	54.00	-1.79	AVG	

REMARKS:

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

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

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5820.0000	96.52	16.90	113.42	122.20	-8.78	Peak	No Limit
2	5850.0000	44.28	17.02	61.30	122.20	-60.90	Peak	
3	5860.0000	45.33	17.06	62.39	109.40	-47.01	Peak	

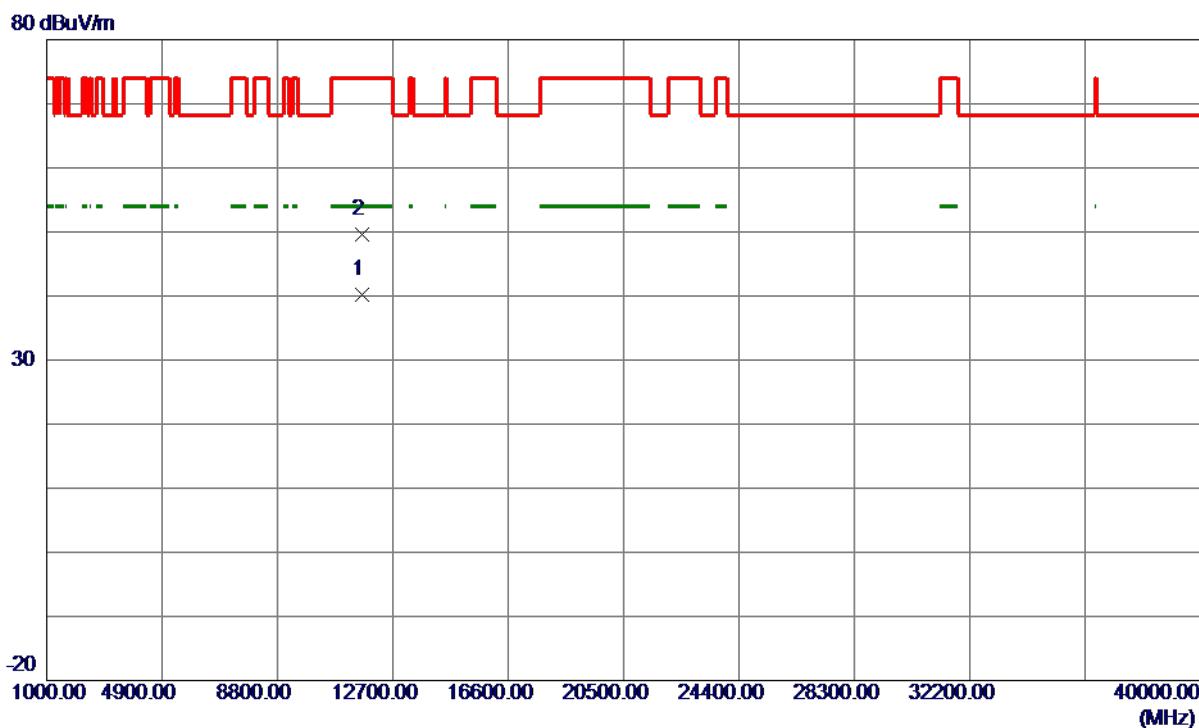
REMARKS:

- (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

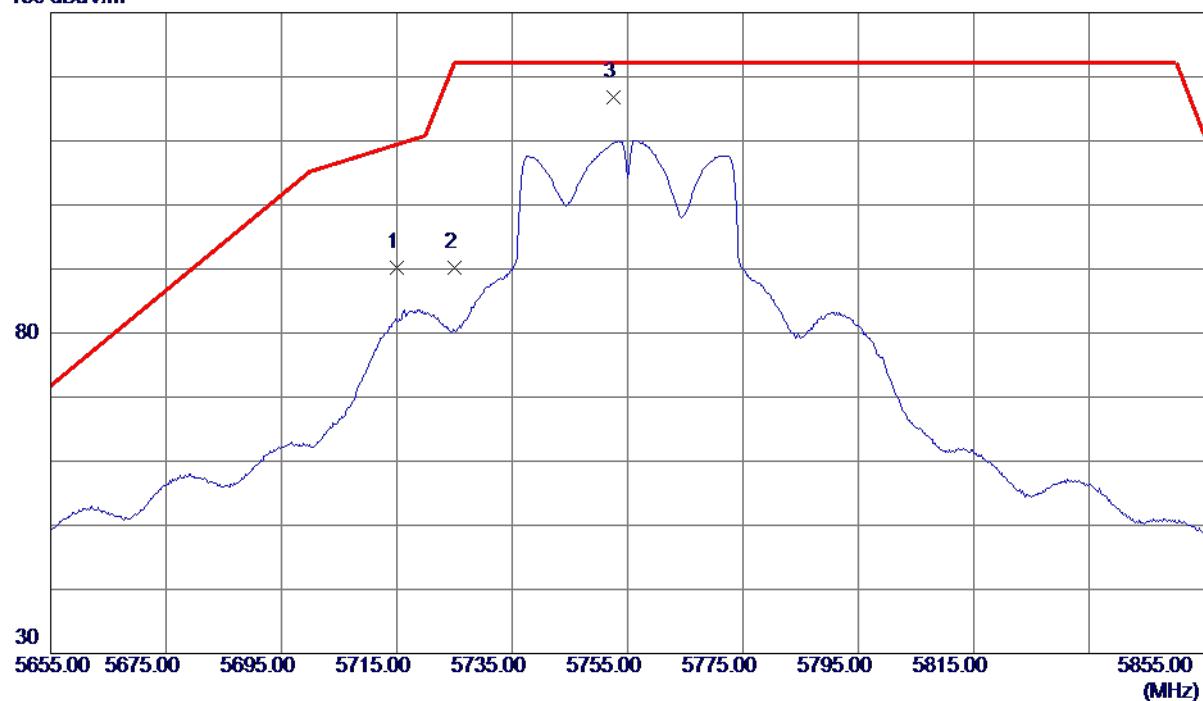


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11649.9000	26.05	14.21	40.26	54.00	-13.74	AVG	
2	11651.7500	35.33	14.21	49.54	74.00	-24.46	Peak	

REMARKS:

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

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

Vertical
130 dBuV/m


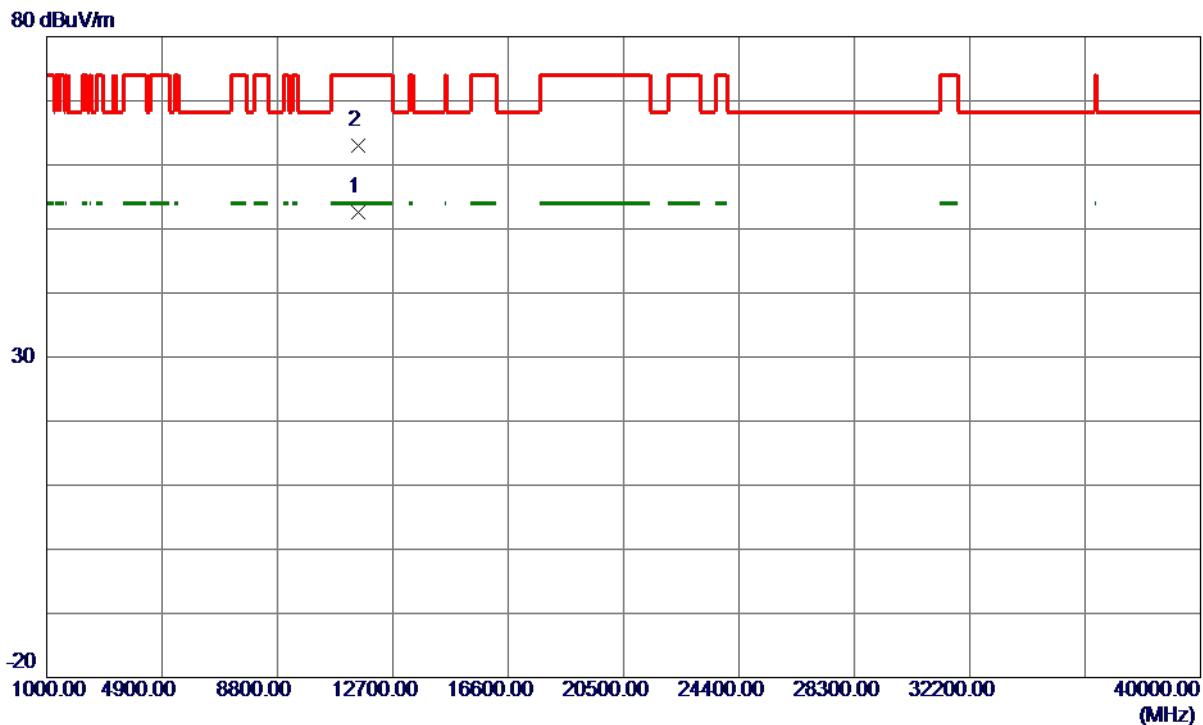
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5715.0000	73.68	16.48	90.16	109.40	-19.24	Peak	
2	5725.0000	73.73	16.52	90.25	122.20	-31.95	Peak	
3 *	5752.6000	100.25	16.63	116.88	122.20	-5.32	Peak	No Limit

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



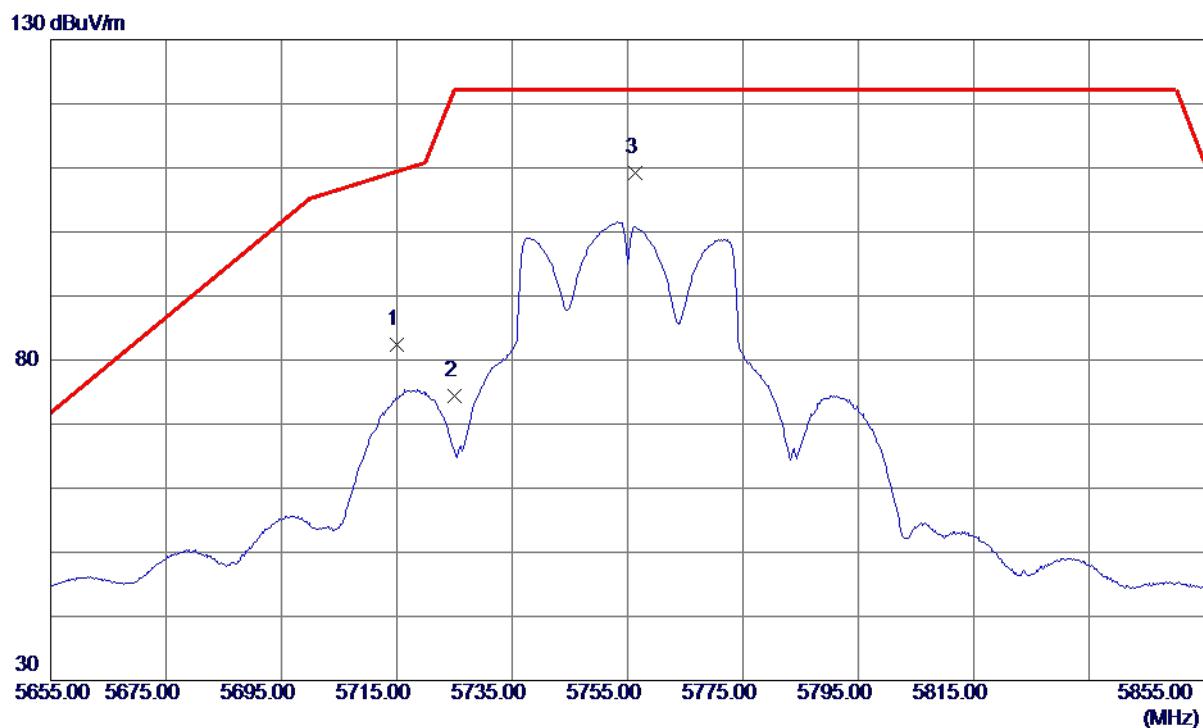
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11509.9000	38.56	14.10	52.66	54.00	-1.34	AVG	
2	11511.8000	48.88	14.10	62.98	74.00	-11.02	Peak	

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5715.0000	65.94	16.48	82.42	109.40	-26.98	Peak	
2	5725.0000	57.90	16.52	74.42	122.20	-47.78	Peak	
3 *	5756.4000	92.49	16.65	109.14	122.20	-13.06	Peak	No Limit

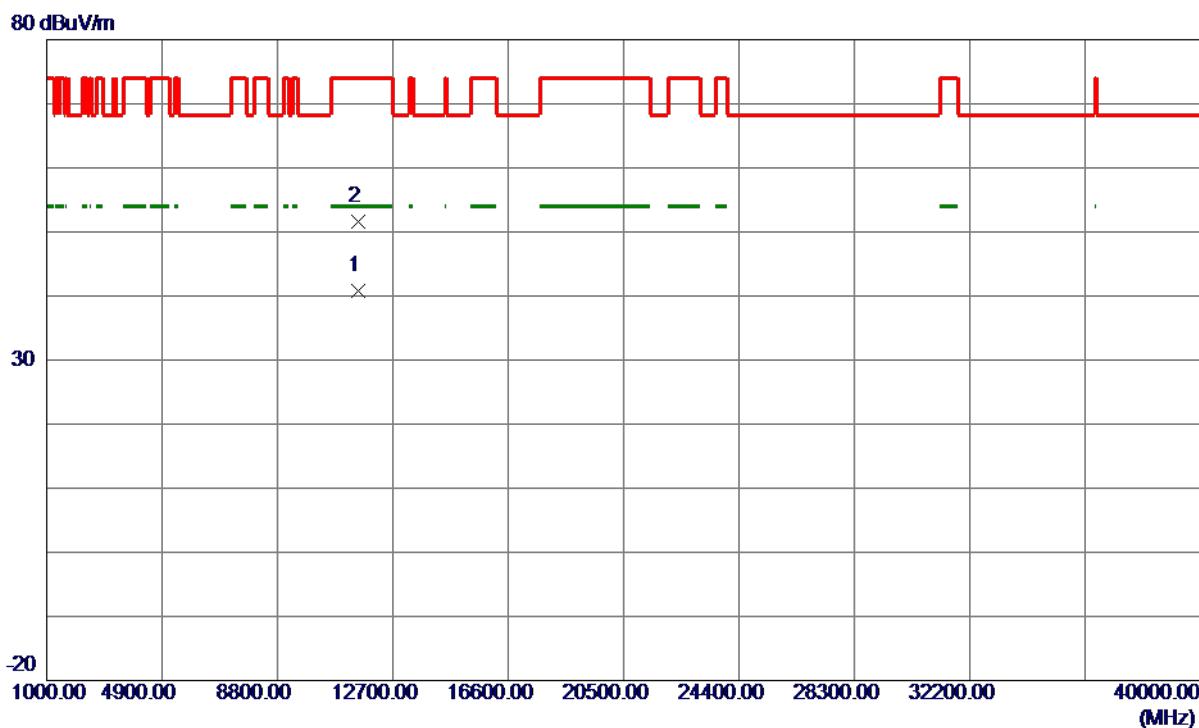
REMARKS:

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

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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11511.2500	26.63	14.10	40.73	54.00	-13.27	AVG	
2	11514.2500	37.40	14.11	51.51	74.00	-22.49	Peak	

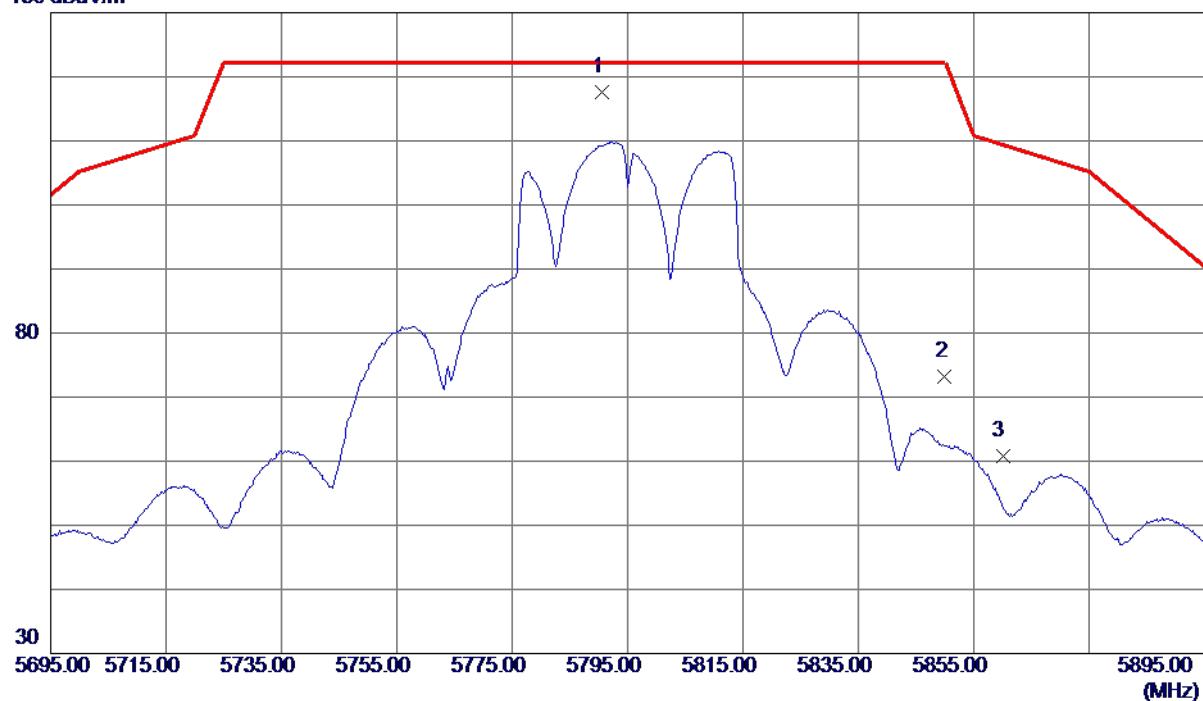
REMARKS:

- (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

130 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5790.6000	100.88	16.78	117.66	122.20	-4.54	Peak	No Limit
2	5850.0000	56.25	17.02	73.27	122.20	-48.93	Peak	
3	5860.0000	43.78	17.06	60.84	109.40	-48.56	Peak	

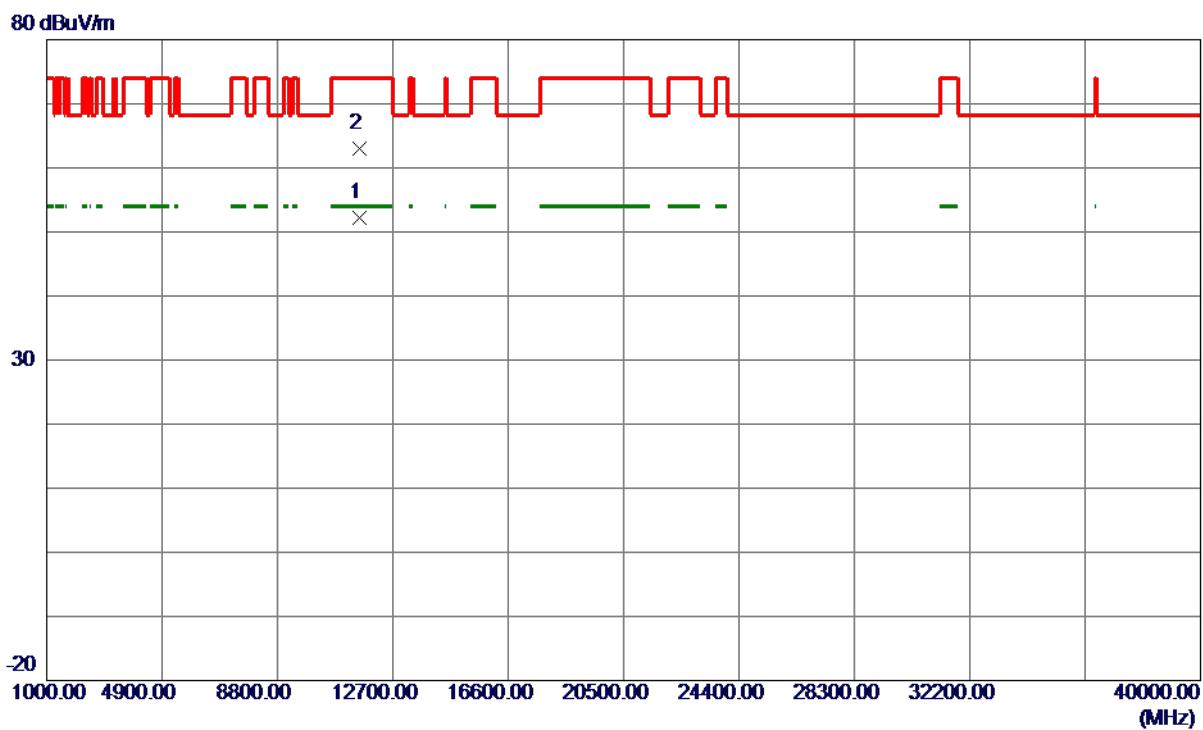
REMARKS:

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

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



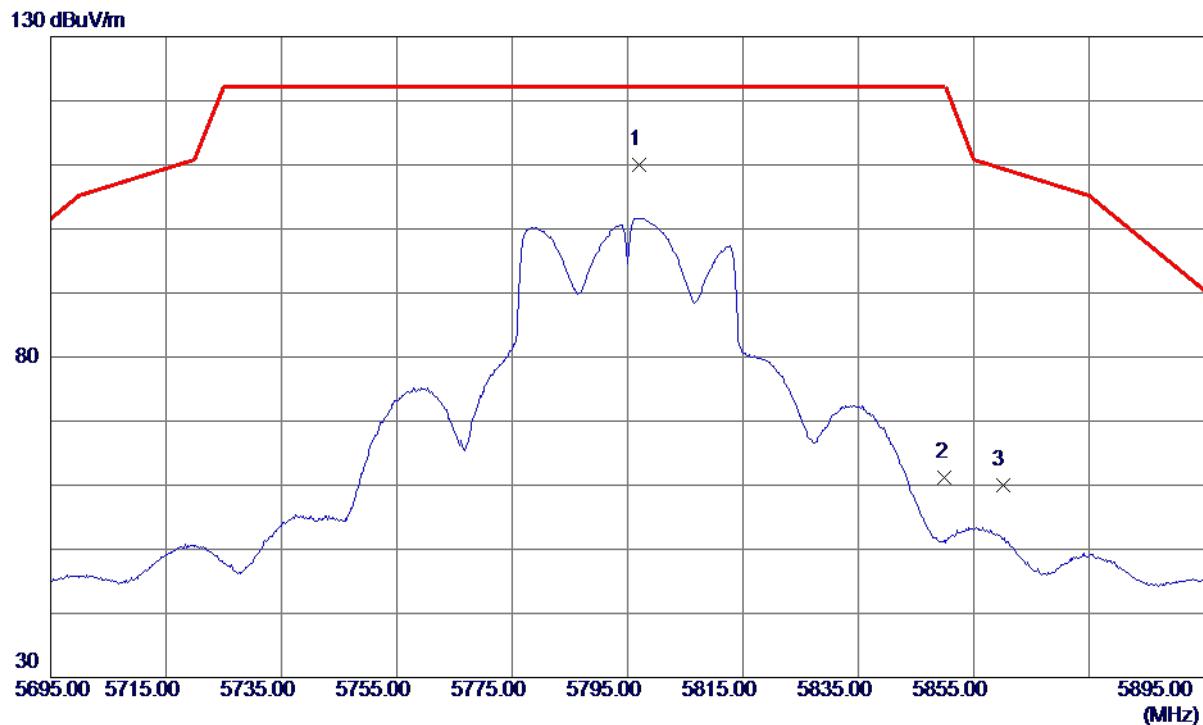
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11586.2000	37.96	14.16	52.12	54.00	-1.88	AVG	
2	11588.2000	48.79	14.16	62.95	74.00	-11.05	Peak	

REMARKS:

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

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

Horizontal



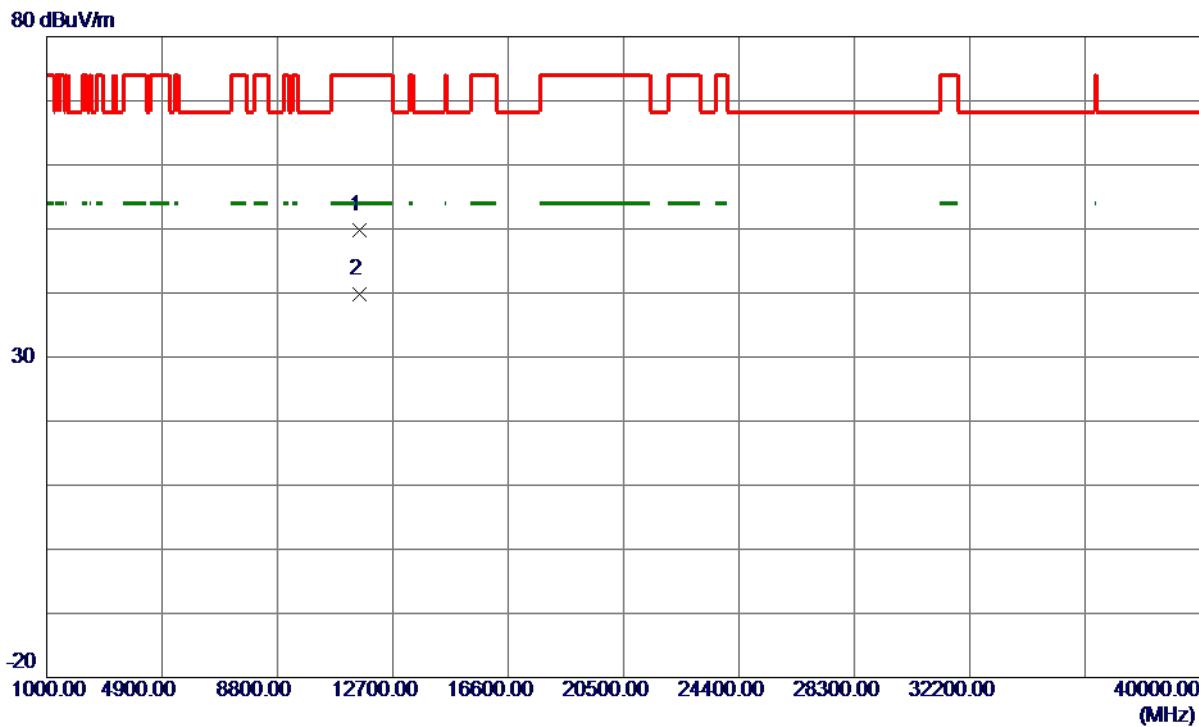
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	5797.0000	93.27	16.81	110.08	122.20	-12.12	Peak	No Limit
2	5850.0000	44.13	17.02	61.15	122.20	-61.05	Peak	
3	5860.0000	43.01	17.06	60.07	109.40	-49.33	Peak	

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.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11570.1500	35.64	14.15	49.79	74.00	-24.21	Peak	
2 *	11582.1000	25.71	14.16	39.87	54.00	-14.13	AVG	

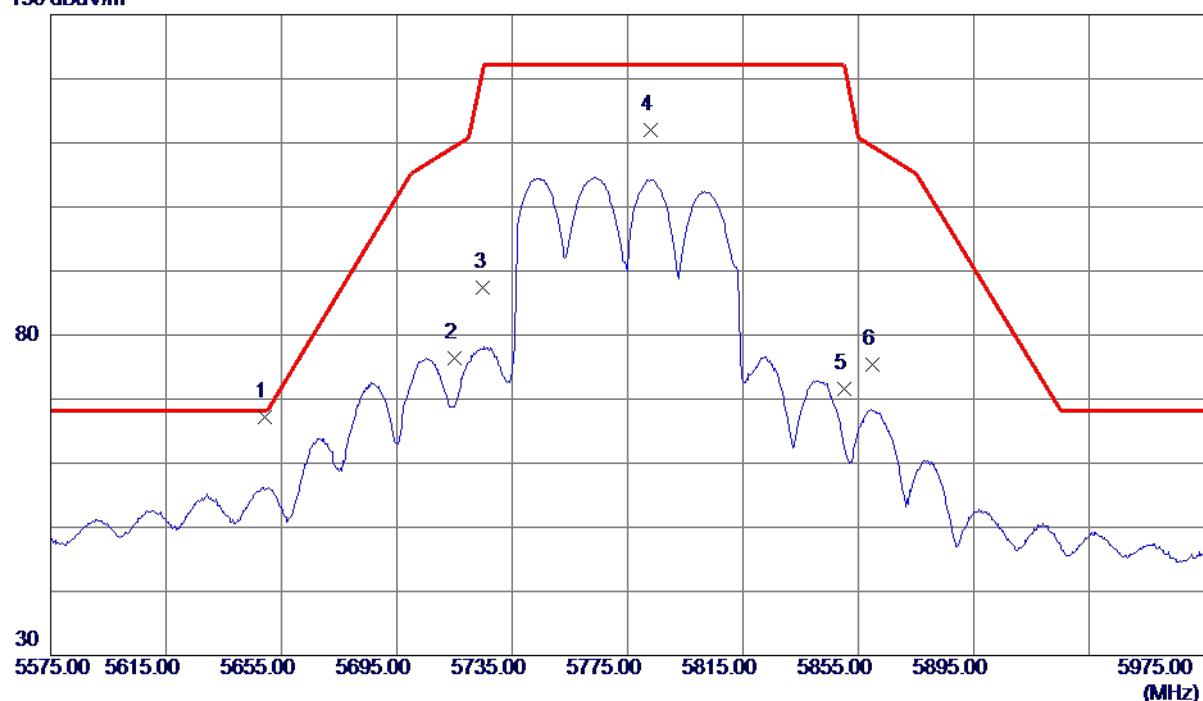
REMARKS:

- (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



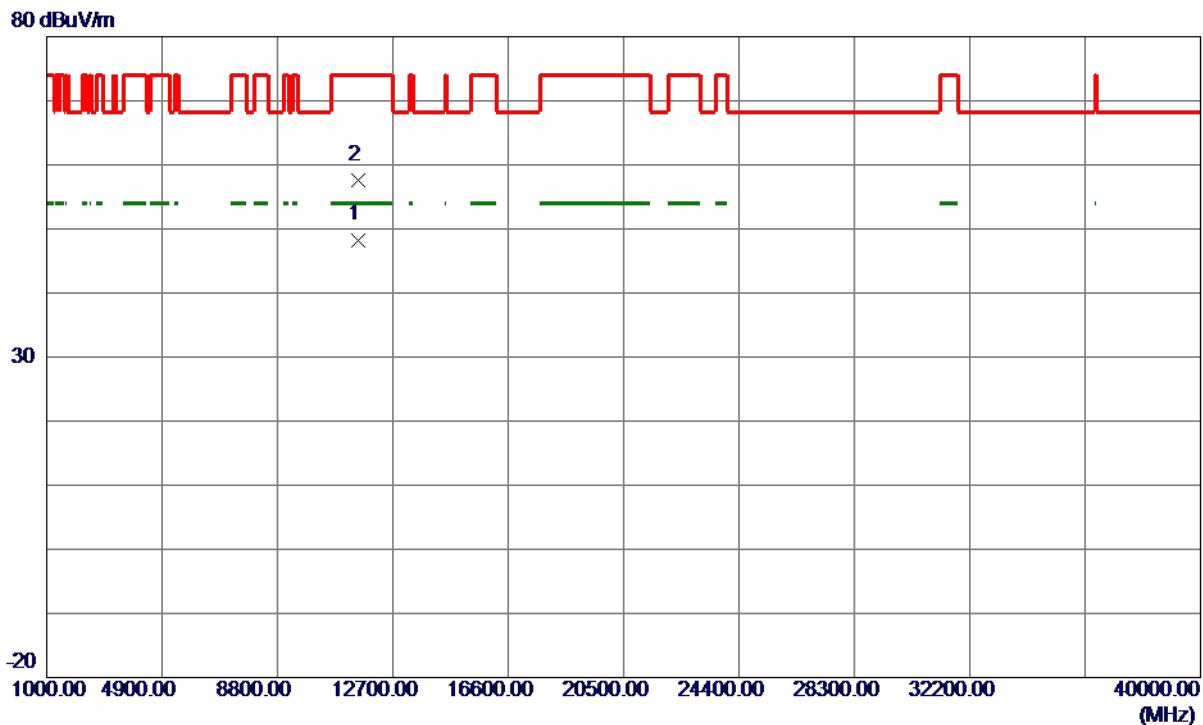
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5649.4000	50.91	16.23	67.14	68.20	-1.06	Peak	
2	5715.0000	59.93	16.48	76.41	109.40	-32.99	Peak	
3	5725.0000	70.80	16.52	87.32	122.20	-34.88	Peak	
4	5783.0000	95.21	16.75	111.96	122.20	-10.24	Peak	No Limit
5	5850.0000	54.49	17.02	71.51	122.20	-50.69	Peak	
6	5860.0000	58.37	17.06	75.43	109.40	-33.97	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



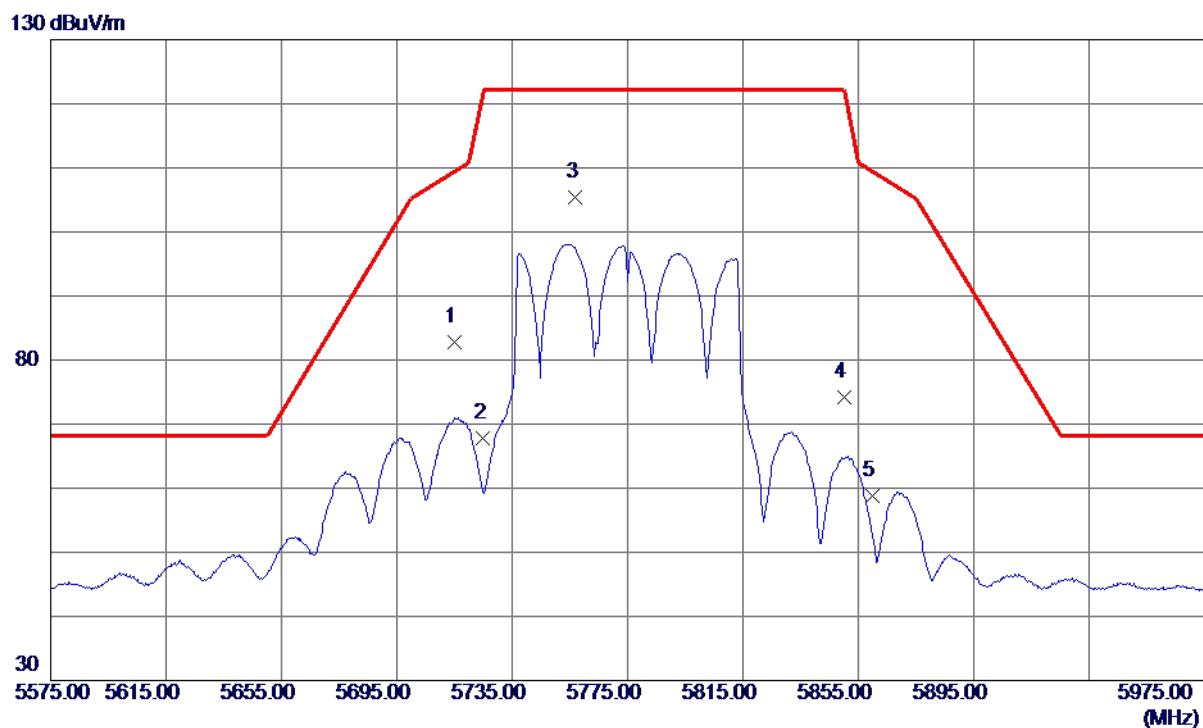
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1 *	11550.0000	34.17	14.13	48.30	54.00	-5.70	AVG	
2	11550.1000	43.47	14.13	57.60	74.00	-16.40	Peak	

REMARKS:

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

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

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	5715.0000	66.26	16.48	82.74	109.40	-26.66	Peak	
2	5725.0000	51.22	16.52	67.74	122.20	-54.46	Peak	
3 *	5757.0000	88.81	16.65	105.46	122.20	-16.74	Peak	No Limit
4	5850.0000	57.21	17.02	74.23	122.20	-47.97	Peak	
5	5860.0000	41.70	17.06	58.76	109.40	-50.64	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



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		
1	11561.4000	35.36	14.14	49.50	74.00	-24.50	Peak	
2 *	11569.9000	24.29	14.15	38.44	54.00	-15.56	AVG	

REMARKS:

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

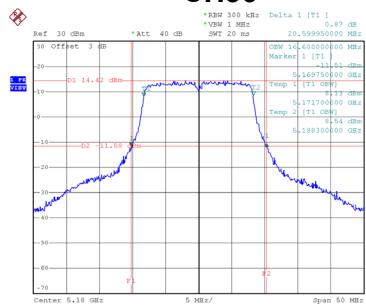
APPENDIX E - BANDWIDTH

Non-Beamforming

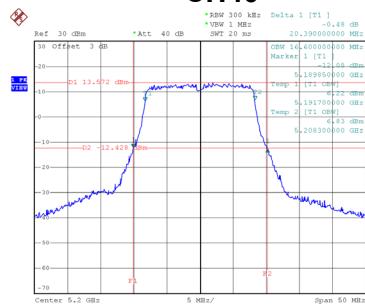
Test Mode	UNII-1_TX A Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	20.60	16.60
40	5200	20.39	16.60
48	5240	20.45	16.60

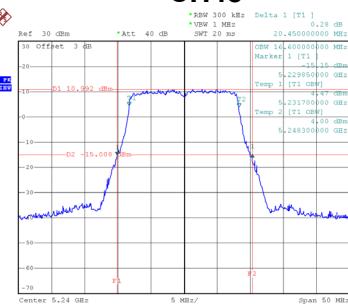
CH36



CH40



CH48



Date: 16.FEB.2019 15:17:37

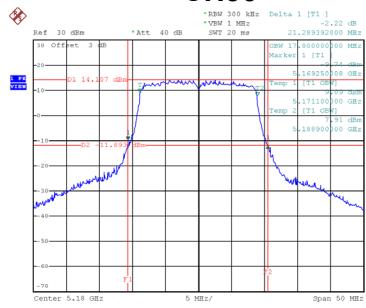
Date: 16.FEB.2019 15:19:14

Date: 16.FEB.2019 15:20:33

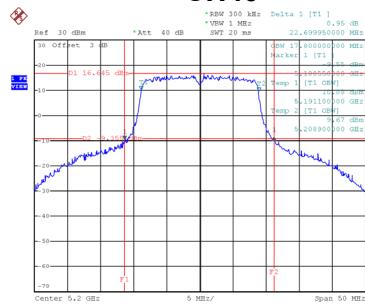
Test Mode	UNII-1_TX N (HT20) Mode
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Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99 % Emission Bandwidth (MHz)
36	5180	21.29	17.80
40	5200	22.70	17.80
48	5240	22.00	17.80

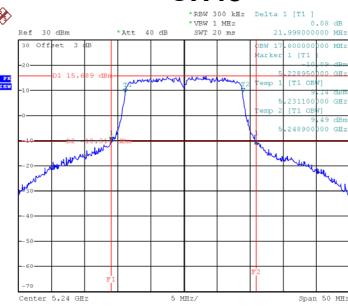
CH36



CH40



CH48



Date: 20.FEB.2019 20:09:34

Date: 20.FEB.2019 20:10:50

Date: 20.FEB.2019 20:12:20