

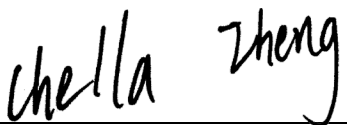
FCC Radio Test Report

FCC ID: 2AVUGAP8220

This report concerns: Original Grant

Project No. : 2005C033
Equipment : Wireless LAN Access Point
Brand Name : Alibaba Cloud
Test Model : AP8220
Series Model : N/A
Applicant : Alibaba Cloud Computing Co.,Ltd
Address : Building 8, No.16, Zhuan Tang Jing Ji Qu Kuai, Xihu District, Hangzhou, Zhejiang, China
Manufacturer : Alibaba Cloud Computing Co.,Ltd
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Factory : Joy Technology (ShenZhen) Corporation
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Date of Receipt : May 11, 2020
Date of Test : May 13, 2020 ~ Jul. 25, 2020
Issued Date : Aug. 13, 2020
Report Version : R01
Test Sample : Engineering Sample No.: DG202005125 for conducted, DG202005128 for radiated.
Standard(s) : FCC Part15, Subpart E(15.407)
ANSI C63.10-2013
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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



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Declaration

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

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

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

Limitation

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

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

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Aug. 06, 2020
R01	Added the description in section 2.1 note(3).	Aug. 13, 2020

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)				
Standard(s) Section	Test Item	Test Result	Judgement	Remark
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS	-----
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS	-----
15.407(a) 15.407(e)	Spectrum Bandwidth	APPENDIX E	PASS	-----
15.407(a)	Maximum Output Power	APPENDIX F	PASS	-----
15.407(a)	Power Spectral Density	APPENDIX G	PASS	-----
15.407(g)	Frequency Stability	APPENDIX H	PASS	-----
15.203	Antenna Requirements	-----	PASS	NOTE (2)
15.407(c)	Automatically Discontinue Transmission	-----	PASS	NOTE (3)

Note:

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

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

1.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150kHz ~ 30MHz	2.60

B. Radiated emissions test:

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

C. Other Measurement:

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

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

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	25°C	55%	AC 120V/60Hz AC 240V/50Hz	Sheldon Ou
Radiated Emissions-9K-30MHz	25°C	60%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-30 MHz to 1GHz	22°C	54%	AC 120V/60Hz	Sheldon Ou
Radiated Emissions-Above 1000 MHz	24°C	60%	AC 120V/60Hz	Sheldon Ou
Spectrum Bandwidth	25°C	49%	DC 12V	Hayden Chen
Maximum Output Power	25°C	49%	DC 12V	Laughing Zhang
Power Spectral Density	25°C	49%	DC 12V	Hayden Chen
Frequency Stability	Normal & Extreme	49%	Normal & Extreme	Hayden Chen

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless LAN Access Point
Brand Name	Alibaba Cloud
Test Model	AP8220
Series Model	N/A
Model Difference(s)	N/A
Power Source	1# Supplied from PoE (Support Unit). 2# DC voltage supplied from AC adapter (Support Unit).
Power Rating	1# I/P: PoE 48V $\overline{=}$, 0.7A 2# DC 12V, 3A
Operation Frequency Bands	UNII-1: 5150 MHz ~ 5250 MHz UNII-2A: 5250 MHz ~ 5350 MHz UNII-2C: 5470 MHz ~ 5725 MHz UNII-3: 5725 MHz ~ 5850 MHz
Modulation Type	IEEE 802.11a/n/ac: OFDM IEEE 802.11ax: OFDMA
Bit Rate of Transmitter	Up to 2402 Mbps
Maximum Output Power _UNII-1	IEEE 802.11a: 22.76 dBm (0.1888 W) IEEE 802.11n (HT20): 22.65 dBm (0.1841 W) IEEE 802.11n (HT40): 22.91 dBm (0.1954 W) IEEE 802.11ac (VHT20): 22.69 dBm (0.1858 W) IEEE 802.11ac (VHT40): 22.93 dBm (0.1963 W) IEEE 802.11ac (VHT80): 19.79 dBm (0.0953 W) IEEE 802.11ax (HEW20): 22.78 dBm (0.1897 W) IEEE 802.11ax (HEW40): 22.68 dBm (0.1854 W) IEEE 802.11ax (HEW80): 19.88 dBm (0.0973 W)
Maximum Output Power _UNII-2A	IEEE 802.11a: 16.92 dBm (0.0492 W) IEEE 802.11n (HT20): 16.81 dBm (0.0480 W) IEEE 802.11n (HT40): 16.73 dBm (0.0471 W) IEEE 802.11ac (VHT20): 16.93 dBm (0.0493 W) IEEE 802.11ac (VHT40): 16.77 dBm (0.0475 W) IEEE 802.11ac (VHT80): 16.61 dBm (0.0458 W) IEEE 802.11ax (HEW20): 16.79 dBm (0.0478 W) IEEE 802.11ax (HEW40): 16.94 dBm (0.0494 W) IEEE 802.11ax (HEW80): 16.78 dBm (0.0476 W)
Maximum Output Power _UNII-2C	IEEE 802.11a: 16.82 dBm (0.0481 W) IEEE 802.11n (HT20): 16.71 dBm (0.0469 W) IEEE 802.11n (HT40): 16.81 dBm (0.0480 W) IEEE 802.11ac (VHT20): 16.78 dBm (0.0476 W) IEEE 802.11ac (VHT40): 16.82 dBm (0.0481 W) IEEE 802.11ac (VHT80): 16.89 dBm (0.0489 W) IEEE 802.11ax (HEW20): 16.94 dBm (0.0494 W) IEEE 802.11ax (HEW40): 16.83 dBm (0.0482 W) IEEE 802.11ax (HEW80): 16.69 dBm (0.0467 W)
Maximum Output Power _UNII-3	IEEE 802.11a: 22.89 dBm (0.1945 W) IEEE 802.11n (HT20): 22.74 dBm (0.1879 W) IEEE 802.11n (HT40): 22.92 dBm (0.1959 W) IEEE 802.11ac (VHT20): 22.81 dBm (0.1910 W) IEEE 802.11ac (VHT40): 22.93 dBm (0.1963 W) IEEE 802.11ac (VHT80): 22.97 dBm (0.1982 W) IEEE 802.11ax (HEW20): 22.91 dBm (0.1954 W) IEEE 802.11ax (HEW40): 22.81 dBm (0.1910 W) IEEE 802.11ax (HEW80): 22.89 dBm (0.1945 W)

Note:

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

2. Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HEW20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HEW40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)	
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 802.11ax (HEW20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HEW40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)	
UNII-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HEW20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HEW40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)	
UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HEW20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HEW40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HEW80)	
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. RU Configuration:

Operating Mode	Resource Unit	242 Tone(20M)
IEEE 802.11ax(HEW20)	Specific Resource Unit	61
IEEE 802.11ax(HEW40)	Resource Unit	484 Tone(40M)
	Specific Resource Unit	65
IEEE 802.11ax(HEW80)	Resource Unit	996 Tone(80M)
	Specific Resource Unit	67

Remark: IEEE 802.11ax mode only supports the highest tone, so the highest tone was evaluated and measured inside report.

4. Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
1	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.55	UNII-1
2	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.72	
3	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.43	
4	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.76	
1	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	7.04	UNII-2A
2	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.92	
3	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.00	
4	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.63	

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)	Note
1	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	7.11	UNII-2C
2	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.48	
3	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.80	
4	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	5.49	
1	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	7.17	UNII-3
2	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.89	
3	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	6.77	
4	MAG. LAYERS SCIENTIFIC-TEC HNICS CO., LTD	MSA-1313-25G C4-A1-ZF	Internal	N/A	5.50	

Note:

This EUT supports CDD, and antenna gains are not equal, so Directional gain=

$10\log [(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N] \text{dBi}$. So,

For UNII-1: Directional gain= $10\log [(10^{6.55/20} + 10^{6.72/20} + 10^{6.43/20} + 10^{6.76/20})^2 / 4] = 12.64$. Then the output power limit is $30 - (12.64 - 6) = 23.36$, the power spectral density limit is $17 - (12.64 - 6) = 10.36$.

For UNII-2A: Directional gain= $10\log [(10^{7.04/20} + 10^{6.92/20} + 10^{6.00/20} + 10^{6.63/20})^2 / 4] = 12.68$. Then the output power limit is $24 - (12.68 - 6) = 17.32$, the power spectral density limit is $11 - (12.68 - 6) = 4.32$.

For UNII-2C: Directional gain= $10\log [(10^{7.11/20} + 10^{6.48/20} + 10^{6.80/20} + 10^{5.49/20})^2 / 4] = 12.51$. Then the output power limit is $24 - (12.51 - 6) = 17.49$, the power spectral density limit is $11 - (12.51 - 6) = 4.49$.

For UNII-3: Directional gain= $10\log [(10^{7.17/20} + 10^{6.89/20} + 10^{6.77/20} + 10^{5.50/20})^2 / 4] = 12.63$. Then the output power limit is $30 - (12.63 - 6) = 23.37$, the power spectral density limit is $30 - (12.63 - 6) = 23.37$.

5. Table for Antenna Configuration:

Operating Mode	TX Mode	4TX
IEEE 802.11a		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11n (HT20)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11n (HT40)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT20)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT40)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ac (VHT80)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax (HEW20)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax (HEW40)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)
IEEE 802.11ax (HEW80)		V (Ant. 1 + Ant. 2 + Ant. 3 + Ant. 4)

2.2 TEST MODES

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

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 10	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 12	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 13	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 14	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 15	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 16	TX AX (HEW20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 17	TX AX (HEW40) Mode / CH54, CH62 (UNII-2A)
Mode 18	TX AX (HEW80) Mode / CH58 (UNII-2A)
Mode 19	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 20	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 21	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 22	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 23	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 24	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 25	TX AX (HEW20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 26	TX AX (HEW40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 27	TX AX (HEW80) Mode / CH106, CH122 (UNII-2C)
Mode 28	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 29	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 30	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 31	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 32	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 33	TX AC (VHT80) Mode / CH155 (UNII-3)

Pretest Mode	Description
Mode 34	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 35	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 36	TX AX (HEW80) Mode / CH155 (UNII-3)
Mode 37	TX AC (VHT80) Mode / CH155 (UNII-3)

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

AC power line conducted emissions test	
Final Test Mode	Description
Mode 37	TX AC (VHT80) Mode / CH155 (UNII-3)

Radiated Emissions test - Below 1GHz	
Final Test Mode	Description
Mode 37	TX AC (VHT80) Mode / CH155 (UNII-3)

Radiated Emissions test - Above 1GHz	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 10	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 13	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 14	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 15	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 16	TX AX (HEW20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 17	TX AX (HEW40) Mode / CH54, CH62 (UNII-2A)
Mode 18	TX AX (HEW80) Mode / CH58 (UNII-2A)
Mode 19	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 22	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 23	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 24	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 25	TX AX (HEW20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 26	TX AX (HEW40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 27	TX AX (HEW80) Mode / CH106, CH122 (UNII-2C)

Radiated Emissions test - Above 1GHz	
Final Test Mode	Description
Mode 28	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 31	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 32	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 33	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 34	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 35	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 36	TX AX (HEW80) Mode / CH155 (UNII-3)

Maximum Output Power 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 AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 10	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 11	TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 12	TX N (HT40) Mode / CH54, CH62 (UNII-2A)
Mode 13	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 14	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 15	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 16	TX AX (HEW20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 17	TX AX (HEW40) Mode / CH54, CH62 (UNII-2A)
Mode 18	TX AX (HEW80) Mode / CH58 (UNII-2A)

Maximum Output Power test	
Final Test Mode	Description
Mode 19	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 20	TX N (HT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 21	TX N (HT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 22	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 23	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 24	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 25	TX AX (HEW20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 26	TX AX (HEW40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 27	TX AX (HEW80) Mode / CH106, CH122 (UNII-2C)
Mode 28	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 29	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 30	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 31	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 32	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 33	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 34	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 35	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 36	TX AX (HEW80) Mode / CH155 (UNII-3)

Other Conducted test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX AX (HEW20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 8	TX AX (HEW40) Mode / CH38, CH46 (UNII-1)
Mode 9	TX AX (HEW80) Mode / CH42 (UNII-1)
Mode 10	TX A Mode / CH52, CH60, CH64 (UNII-2A)
Mode 13	TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 14	TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)
Mode 15	TX AC (VHT80) Mode / CH58 (UNII-2A)
Mode 16	TX AX (HEW20) Mode / CH52, CH60, CH64 (UNII-2A)
Mode 17	TX AX (HEW40) Mode / CH54, CH62 (UNII-2A)
Mode 18	TX AX (HEW80) Mode / CH58 (UNII-2A)

Other Conducted test	
Final Test Mode	Description
Mode 19	TX A Mode / CH100, CH116, CH140 (UNII-2C)
Mode 22	TX AC (VHT20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 23	TX AC (VHT40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 24	TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)
Mode 25	TX AX (HEW20) Mode / CH100, CH116, CH140 (UNII-2C)
Mode 26	TX AX (HEW40) Mode / CH102, CH110, CH134 (UNII-2C)
Mode 27	TX AX (HEW80) Mode / CH106, CH122 (UNII-2C)
Mode 28	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 31	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 32	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 33	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 34	TX AX (HEW20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 35	TX AX (HEW40) Mode / CH151,CH159 (UNII-3)
Mode 36	TX AX (HEW80) Mode / CH155 (UNII-3)

Note:

- (1) For radiated emission below 1 GHz test, the IEEE 802.11ac80 channel 155 is found to be the worst case and recorded.
- (2) For radiated emission above 1 GHz test, 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (3) The measurements for Power were tested, the worst case were IEEE 802.11a, IEEE 802.11ac(VHT20), IEEE 802.11ac(VHT40), IEEE 802.11ac(VHT80), IEEE 802.11ax(HEW20), IEEE 802.11ax(HEW40) and IEEE 802.11ax(HEW80), only worst case were documented for other test items.
- (4) For radiated emissions, the TX Bluetooth LE 1Mbps 2402MHz + WLAN 2.4G AX40 Mode 2452MHz + WLAN 5G A Mode 5320MHz was found the worst case of simultaneous transmission and recorded.

2.3 PARAMETERS OF TEST SOFTWARE

UNII-1			
Test Software	QDART		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11a	16.5	16.5	16
IEEE 802.11n (HT20)	16.5	16.5	16.5
IEEE 802.11ac (VHT20)	16.5	16.5	16
IEEE 802.11ax (HEW20)	16.5	16.5	16
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	14.5	16.5	
IEEE 802.11ac (VHT40)	14.5	16.5	
IEEE 802.11ax (HEW40)	14.5	16	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	13.5		
IEEE 802.11ax (HEW80)	13.5		

UNII-2A			
Test Software	QDART		
Test Frequency (MHz)	5260	5300	5320
IEEE 802.11a	10.5	10	10
IEEE 802.11n (HT20)	10.5	10.5	10
IEEE 802.11ac (VHT20)	10.5	10.5	10
IEEE 802.11ax (HEW20)	10	10	10
Test Frequency (MHz)	5270	5310	
IEEE 802.11n (HT40)	10	10	
IEEE 802.11ac (VHT40)	10	10	
IEEE 802.11ax (HEW40)	10	10.5	
Test Frequency (MHz)	5290		
IEEE 802.11ac (VHT80)	10		
IEEE 802.11ax (HEW80)	10		

UNII-2C			
Test Software	QDART		
Test Frequency (MHz)	5500	5580	5700
IEEE 802.11a	10.5	10.5	10.5
IEEE 802.11n (HT20)	11	11	11
IEEE 802.11ac (VHT20)	10.5	11	11
IEEE 802.11ax (HEW20)	10	11	11
Test Frequency (MHz)	5510	5550	5670
IEEE 802.11n (HT40)	10.5	11	11
IEEE 802.11ac (VHT40)	10.5	10.5	11
IEEE 802.11ax (HEW40)	10	10.5	10.5
Test Frequency (MHz)	5530	5610	
IEEE 802.11ac (VHT80)	11	11.5	
IEEE 802.11ax (HEW80)	10.5	11	

UNII-3			
Test Software	QDART		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11a	16.5	16.5	16.5
IEEE 802.11n (HT20)	16.5	16	17
IEEE 802.11ac (VHT20)	16.5	16	17
IEEE 802.11ax (HEW20)	16.5	16.5	16.5
Test Frequency (MHz)	5755	5795	
IEEE 802.11n (HT40)	16.5	16.5	
IEEE 802.11ac (VHT40)	16.5	16.5	
IEEE 802.11ax (HEW40)	16	16	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	17		
IEEE 802.11ax (HEW80)	16.5		

2.4 DUTY CYCLE

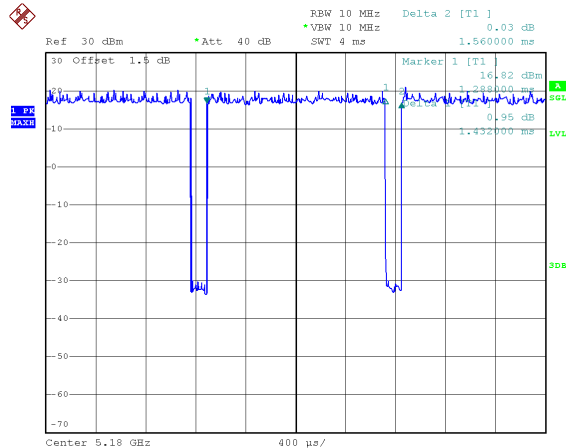
If duty cycle is $\geq 98\%$, duty factor is not required.

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

The output power = measured power + duty factor.

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

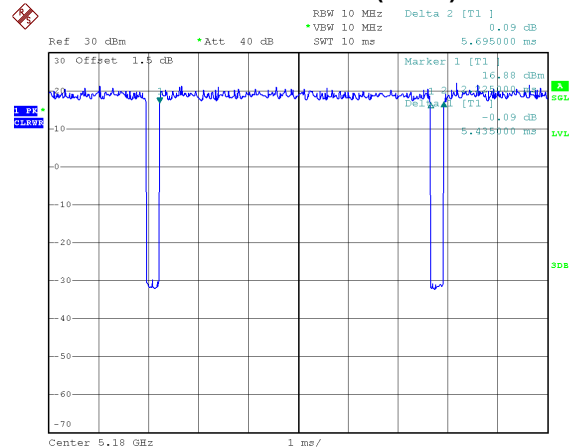
IEEE 802.11a



Date: 20.MAY.2020 11:40:46

Duty cycle = 1.432 ms / 1.560 ms = 91.79%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.37$

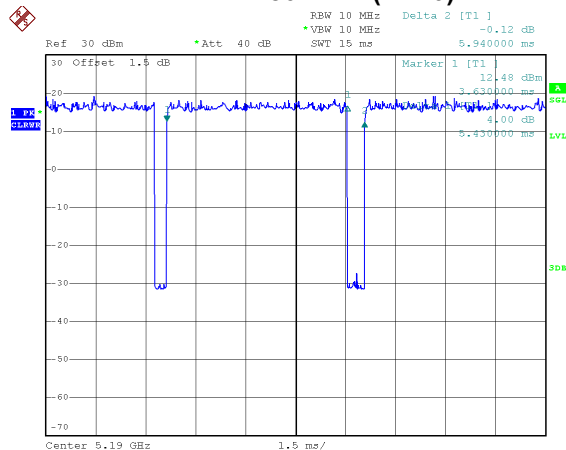
IEEE 802.11n (HT20)



Date: 20.MAY.2020 11:50:40

Duty cycle = 5.435 ms / 5.695 ms = 95.43%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.20$

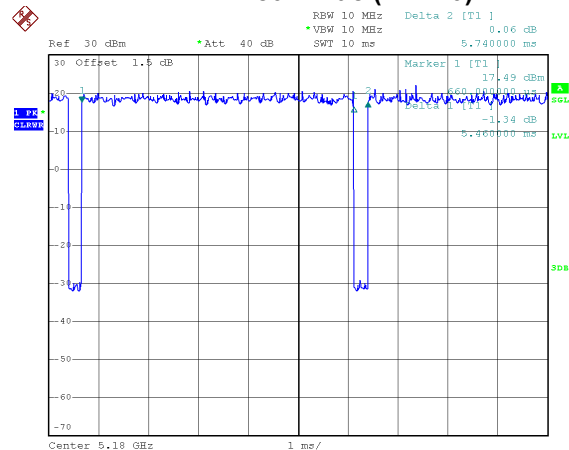
IEEE 802.11n (HT40)



Date: 20.MAY.2020 11:54:29

Duty cycle = 5.430 ms / 5.940 ms = 91.41%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.39$

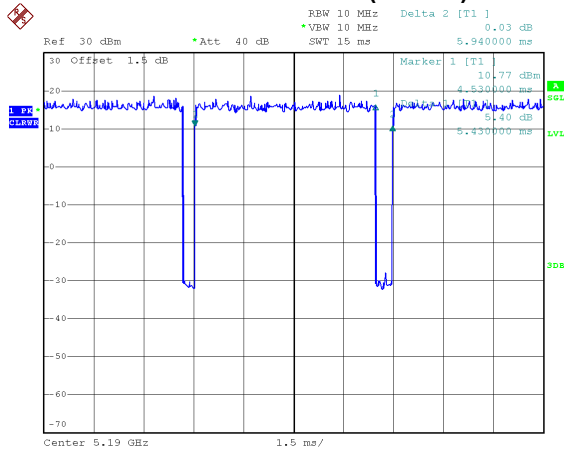
IEEE 802.11ac (VHT20)



Date: 20.MAY.2020 12:02:31

Duty cycle = 5.460 ms / 5.740 ms = 95.12%
Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.22$

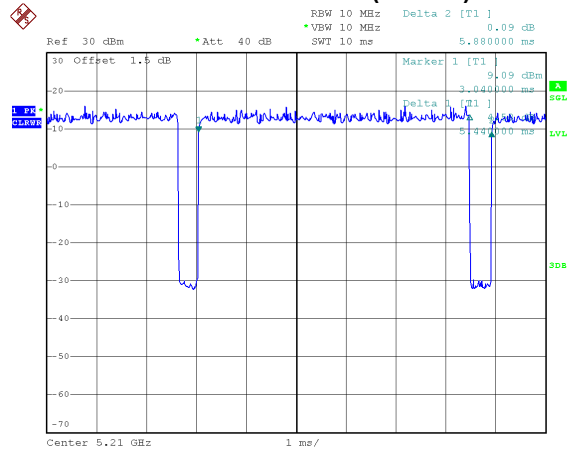
IEEE 802.11ac (VHT40)



Date: 20.MAY.2020 11:59:23

Duty cycle = 5.430 ms / 5.940 ms = 91.41%
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.39$

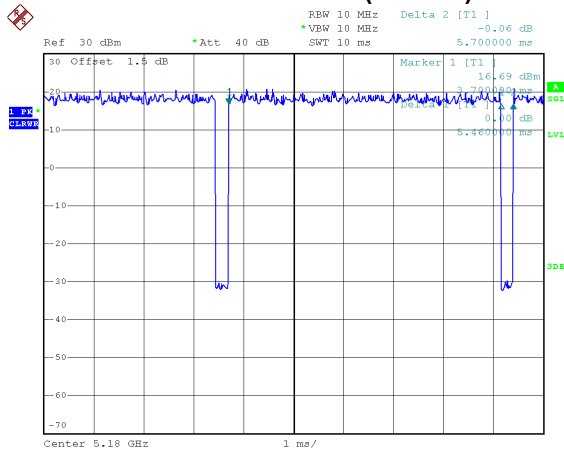
IEEE 802.11ac (VHT80)



Date: 20.MAY.2020 12:01:35

Duty cycle = 5.440 ms / 5.880 ms = 92.52%
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.34$

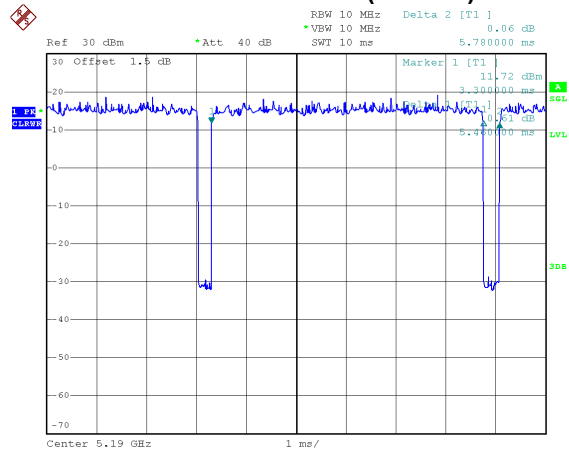
IEEE 802.11ax (HEW20)



Date: 20.MAY.2020 13:49:42

Duty cycle = 5.460 ms / 5.740 ms = 95.12%
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.22$

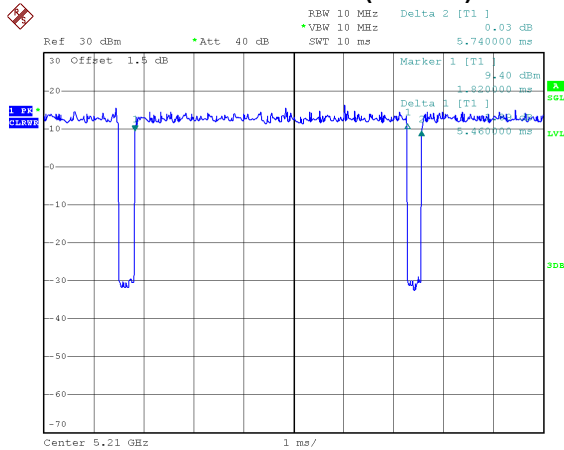
IEEE 802.11ax (HEW40)



Date: 20.MAY.2020 13:51:44

Duty cycle = 5.430 ms / 5.940 ms = 91.41%
 Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.39$

IEEE 802.11ax (HEW80)



Date: 20.MAY.2020 13:53:24

Duty cycle = 5.440 ms / 5.880 ms = 92.52%

Duty Factor = $10 \log(1 / \text{Duty cycle}) = 0.34$

NOTE:

For IEEE 802.11a, IEEE 802.11n (HT20), IEEE 802.11ac (VHT20) and IEEE 802.11ax (HEW20):

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%).

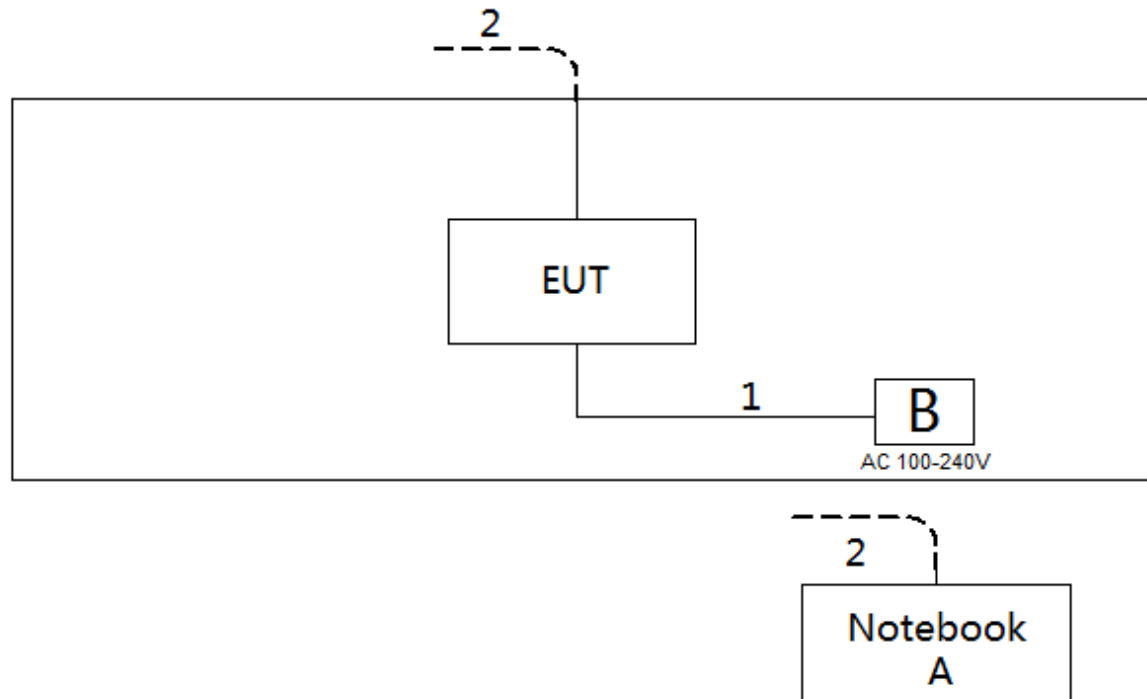
For IEEE 802.11n (HT40), IEEE 802.11ac (VHT40) and IEEE 802.11ax (HEW40):

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) and IEEE 802.11ax (HEW80):

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

2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
A	Notebook	Dell	Inspiron 15-7559	N/A
B	Adapter	APD	WA-36N12FU	N/A

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

3. AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

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

NOTE:

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

The following table is the setting of the receiver

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

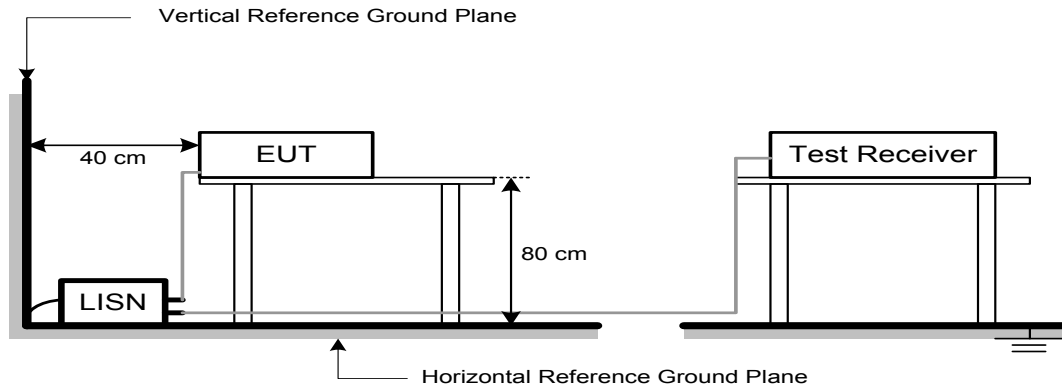
3.2 TEST PROCEDURE

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

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



3.5 EUT OPERATION CONDITIONS

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

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

3.6 TEST RESULTS

Please refer to the APPENDIX A.

4. RADIATED EMISSIONS TEST

4.1 LIMIT

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

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

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

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

For Bluetooth LE + WLAN 2.4GHz:

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

For WLAN 5GHz:

Frequency (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBuV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 NOTE 错误!未找到引用源。	68.3
	10 NOTE 错误!未找到引用源。	105.3
	15.6 NOTE 错误!未找到引用源。	110.9
	27 NOTE 错误!未找到引用源。	122.3

NOTE:

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

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

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

(3) The limit for radiated test was performed according to FCC PART 15C & FCC PART 15E.

4.2 TEST PROCEDURE

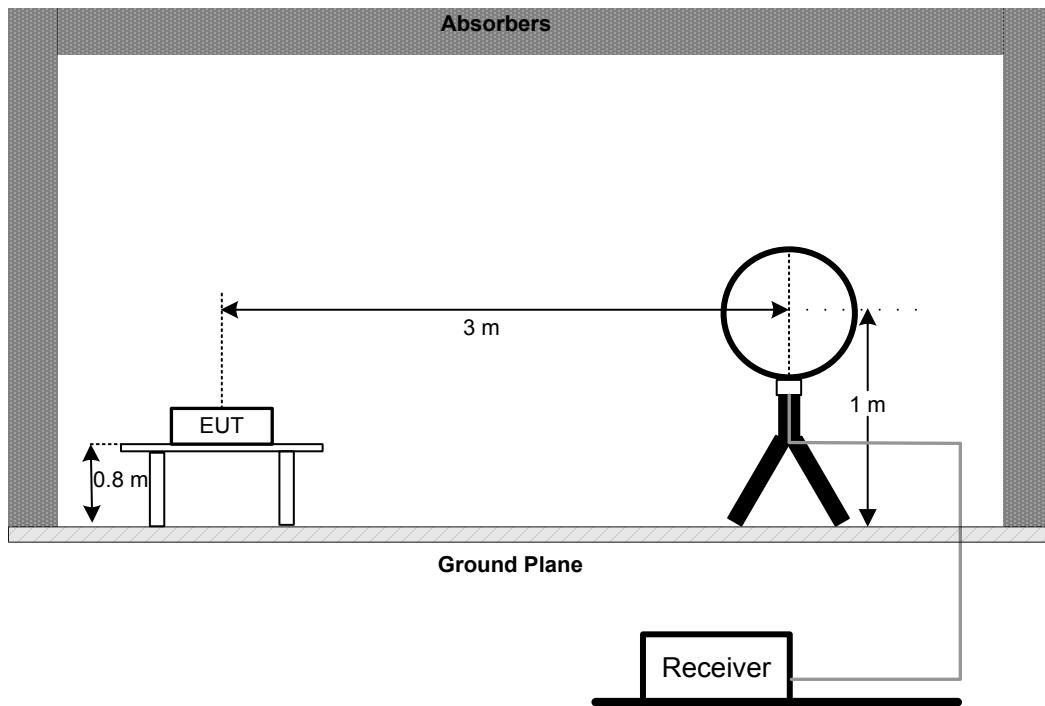
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
(below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.3 DEVIATION FROM TEST STANDARD

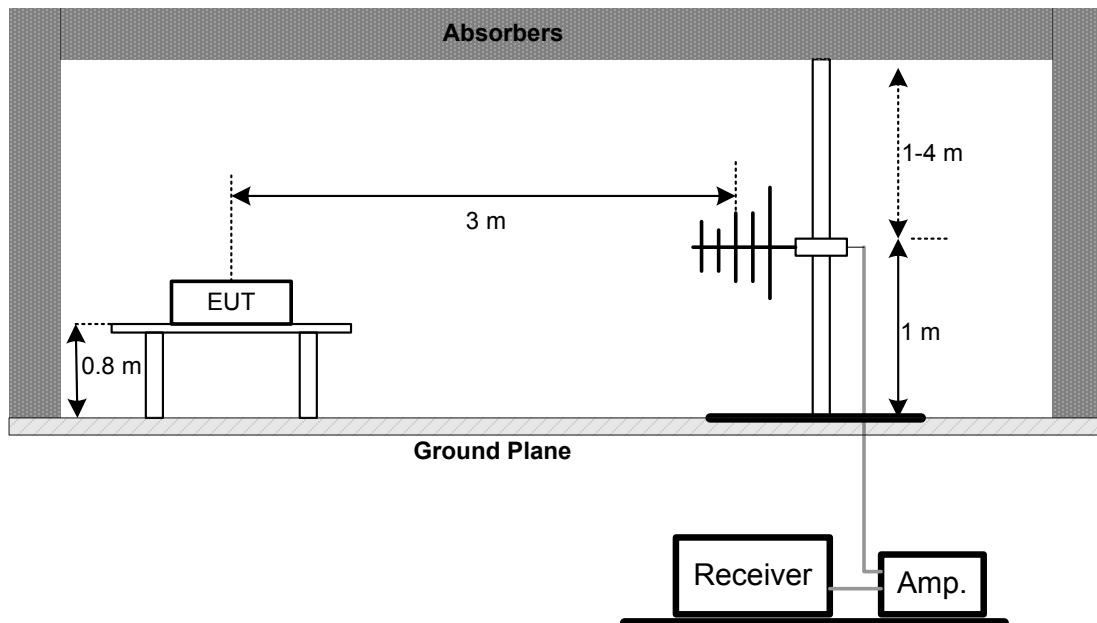
No deviation

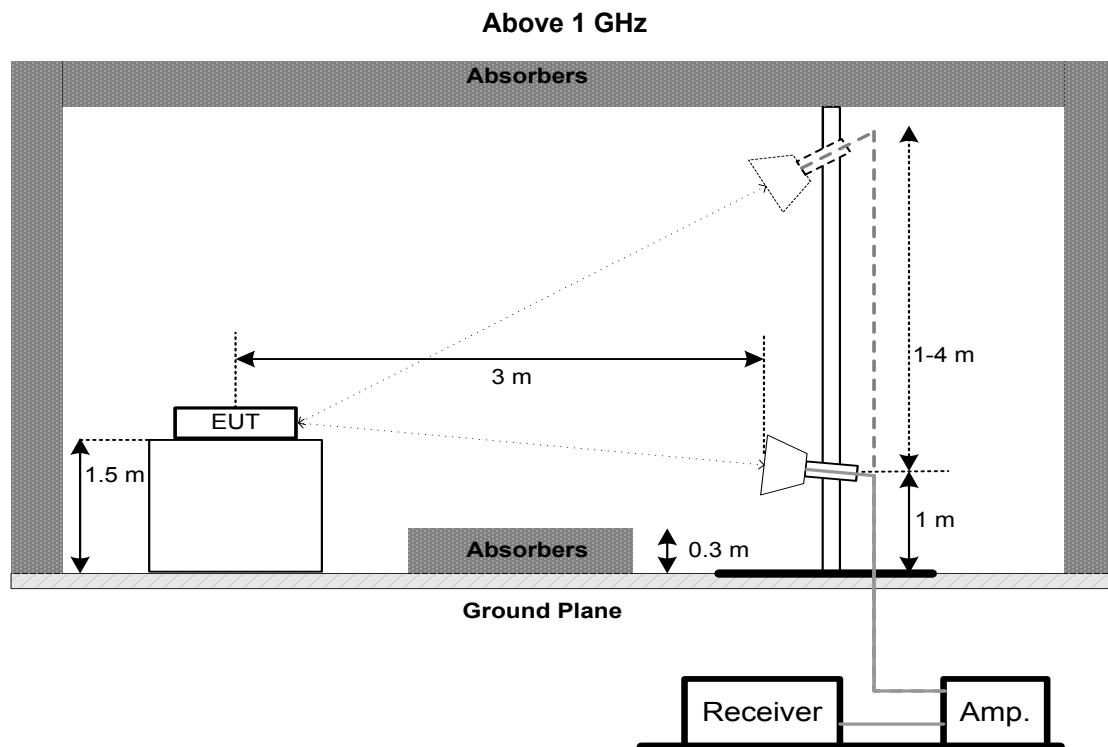
4.4 TEST SETUP

9 kHz to 30 MHz



30 MHz to 1 GHz





4.5 EUT OPERATION CONDITIONS

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

4.6 TEST RESULTS - 9 KHZ to 30 MHZ

Please refer to the APPENDIX B

Remark:

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

4.7 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

4.8 TEST RESULTS - ABOVE 1000 MHz

Please refer to the APPENDIX D.

Remark:

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

5. BANDWIDTH TEST

5.1 LIMIT

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

5.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below
- b. Spectrum Setting:
For UNII-1, UNII-2A, UNII-2C:

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

For UNII-3:

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

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

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULTS

Please refer to the APPENDIX E.

6. MAXIMUM OUTPUT POWER TEST

6.1 LIMIT

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

Note:

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

6.2 TEST PROCEDURE

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

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.6 TEST RESULTS

Please refer to the APPENDIX F.

7. POWER SPECTRAL DENSITY TEST

7.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:
For UNII-1, UNII-2A, UNII-2C:

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

For UNII-3:

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

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.
- The value measured with RBW=100kHz is to be added with $10\log(500\text{ kHz}/100\text{kHz})$ which is +7 dB. For example, if the measured value is +10dBm using RBW=100kHz (that is +10 dBm/MHz), then the converted value will be +17dBm/500kHz.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP**7.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

7.6 TEST RESULTS

Please refer to the APPENDIX G.

8. FREQUENCY STABILITY MEASUREMENT

8.1 LIMIT

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(g)	Frequency Stability	An emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.	5150-5250
			5250-5350
			5470-5725
			5725-5850

8.2 TEST PROCEDURE

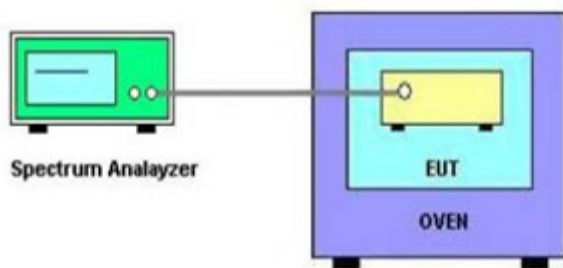
- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- Spectrum Setting:

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto
- The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- User manual temperature is 0°C~45°C.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.6 TEST RESULTS

Please refer to the APPENDIX H.

9. MEASUREMENT INSTRUMENTS LIST

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

Radiated Emissions - 9 kHz to 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	EM	EM-6876-1	230	Apr. 16, 2021
2	Cable	N/A	RG 213/U	N/A	May 29, 2021
3	EMI Test Receiver	R&S	ESCI	100895	Feb. 28, 2021
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - 30 MHz to 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2021
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 22, 2021
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	May 12, 2021
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jul. 07, 2021
3	Amplifier	Agilent	8449B	3008A02333	Mar. 01, 2021
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 07, 2021
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	N/A	EMC104-SM-SM-6 000	N/A	May 09, 2021
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

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

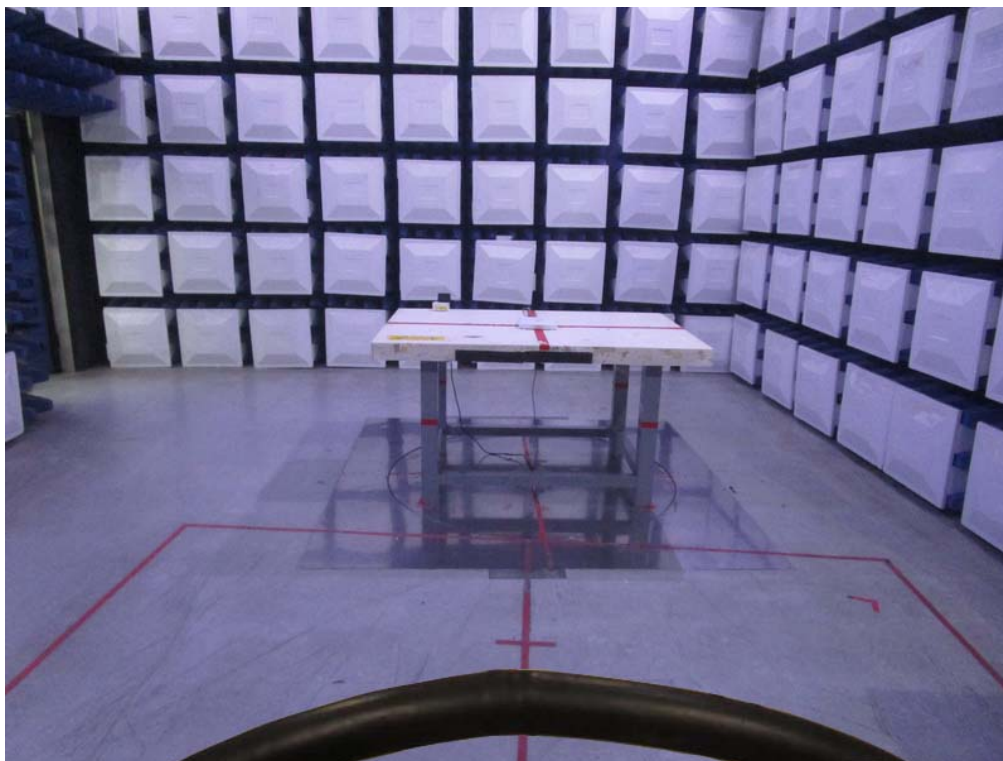
Frequency Stability					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 03, 2020
2	Const Temp. & Humidity Chamber	CEPREI	CEEC-M64T-40	15-008	Feb. 28, 2021

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

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

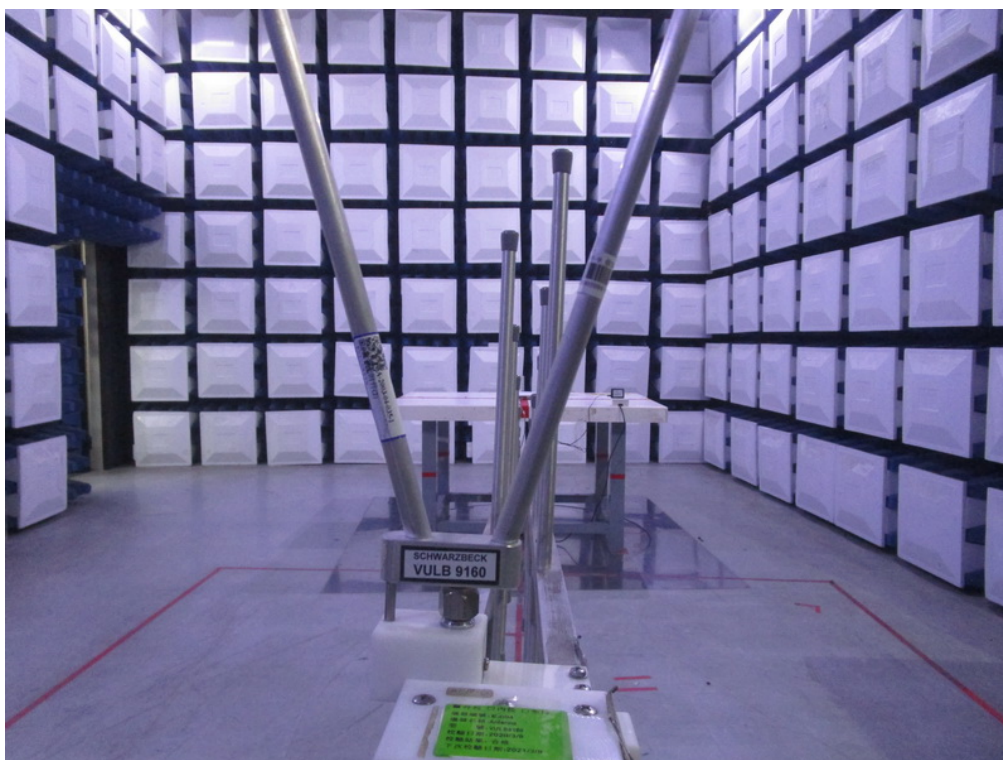
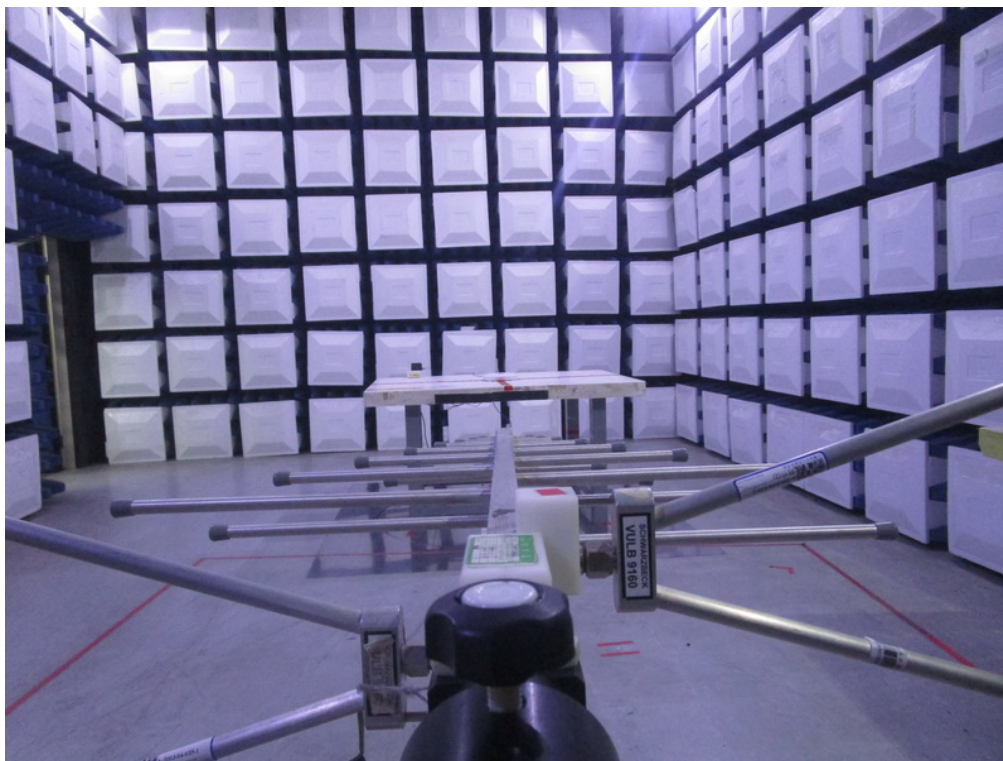
Except * item, all calibration period of equipment list is one year.

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

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

Radiated Emissions Test Photos

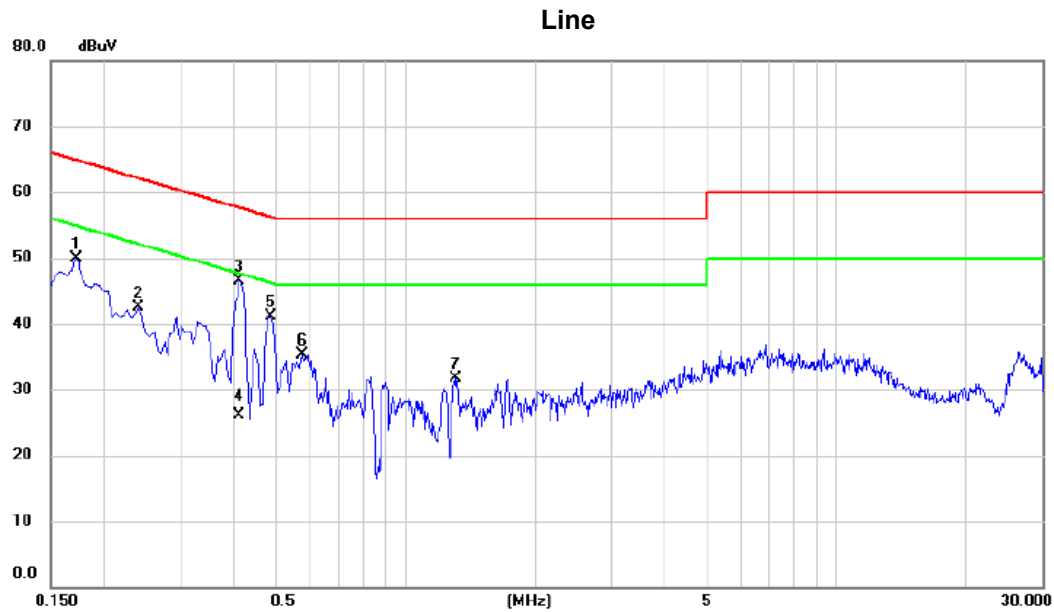
30 MHz to 1 GHz



Radiated Emissions Test Photos**Above 1 GHz**

APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Voltage:	AC 120V/60Hz
Test Mode:	TX AC80 MODE CHANNEL 155

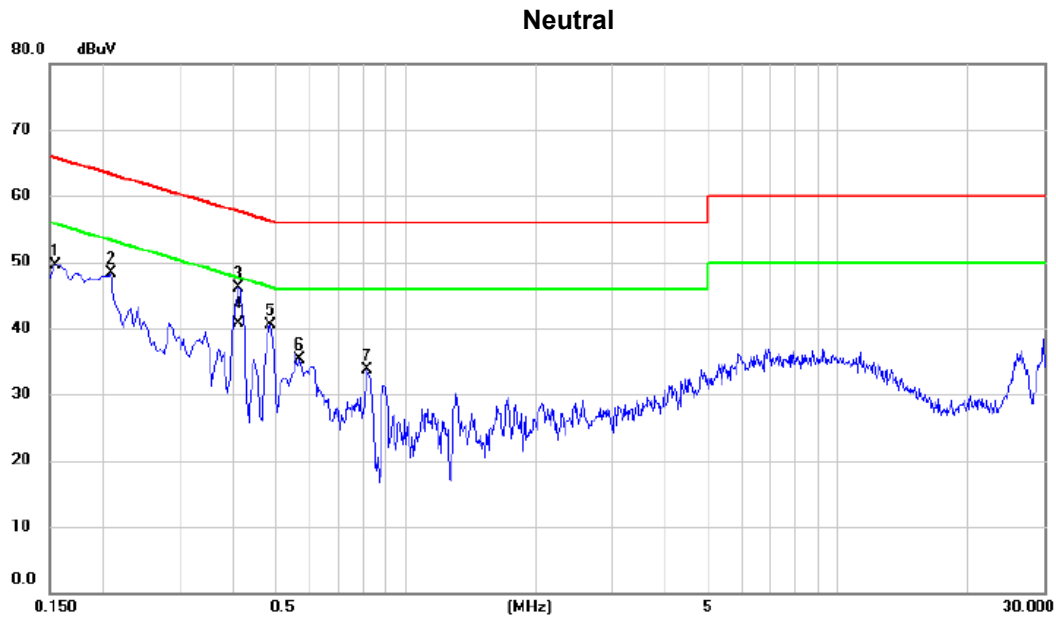


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1725	40.12	9.83	49.95	64.84	-14.89	peak	
2		0.2400	32.69	9.88	42.57	62.10	-19.53	peak	
3	*	0.4110	36.58	9.92	46.50	57.63	-11.13	peak	
4		0.4110	16.27	9.92	26.19	47.63	-21.44	AVG	
5		0.4875	31.22	9.95	41.17	56.21	-15.04	peak	
6		0.5775	25.35	9.96	35.31	56.00	-20.69	peak	
7		1.3110	21.63	10.03	31.66	56.00	-24.34	peak	

REMARKS:

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

Test Voltage:	AC 120V/60Hz
Test Mode:	TX AC80 MODE CHANNEL 155

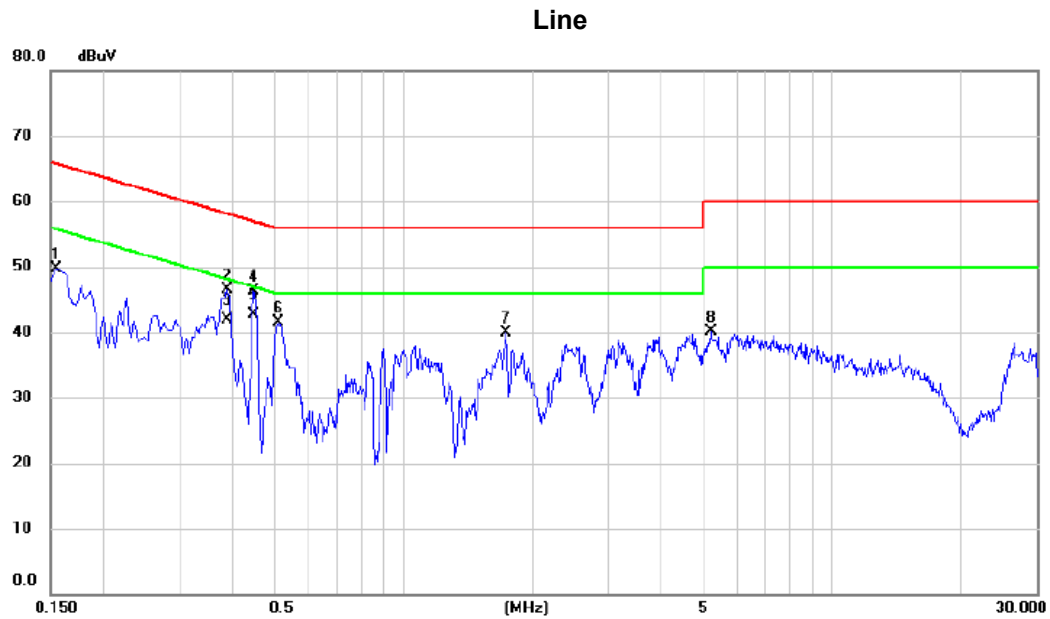


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1548	39.72	9.78	49.50	65.74	-16.24	peak	
2		0.2085	38.28	10.00	48.28	63.26	-14.98	peak	
3		0.4110	36.08	10.09	46.17	57.63	-11.46	peak	
4	*	0.4110	30.67	10.09	40.76	47.63	-6.87	AVG	
5		0.4875	30.32	10.13	40.45	56.21	-15.76	peak	
6		0.5685	25.08	10.18	35.26	56.00	-20.74	peak	
7		0.8160	23.47	10.24	33.71	56.00	-22.29	peak	

REMARKS:

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

Test Voltage:	AC 240V/50Hz
Test Mode:	TX AC80 MODE CHANNEL 155

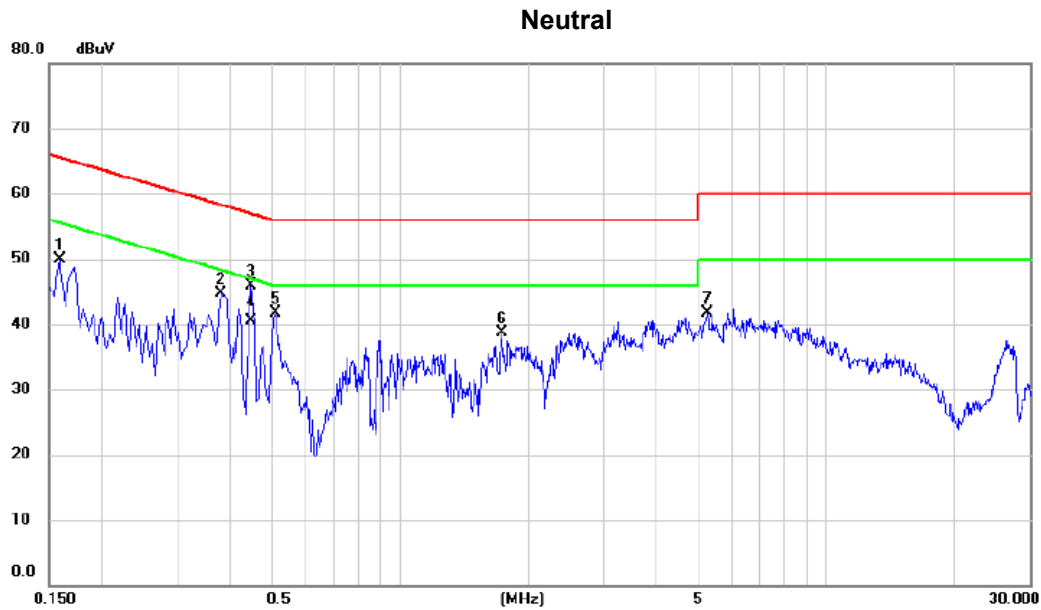


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	40.06	9.70	49.76	65.75	-15.99	peak	
2		0.3885	36.66	9.92	46.58	58.10	-11.52	peak	
3		0.3885	32.00	9.92	41.92	48.10	-6.18	AVG	
4		0.4470	36.44	9.93	46.37	56.93	-10.56	peak	
5	*	0.4470	32.70	9.93	42.63	46.93	-4.30	AVG	
6		0.5100	31.57	9.95	41.52	56.00	-14.48	peak	
7		1.7295	29.84	10.06	39.90	56.00	-16.10	peak	
8		5.2035	29.75	10.35	40.10	60.00	-19.90	peak	

REMARKS:

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

Test Voltage:	AC 240V/50Hz
Test Mode:	TX AC80 MODE CHANNEL 155



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	40.12	9.81	49.93	65.52	-15.59	peak	
2		0.3795	34.67	10.08	44.75	58.29	-13.54	peak	
3		0.4470	35.84	10.11	45.95	56.93	-10.98	peak	
4	*	0.4470	30.40	10.11	40.51	46.93	-6.42	AVG	
5		0.5100	31.53	10.14	41.67	56.00	-14.33	peak	
6		1.7340	28.28	10.39	38.67	56.00	-17.33	peak	
7		5.2530	30.94	10.69	41.63	60.00	-18.37	peak	

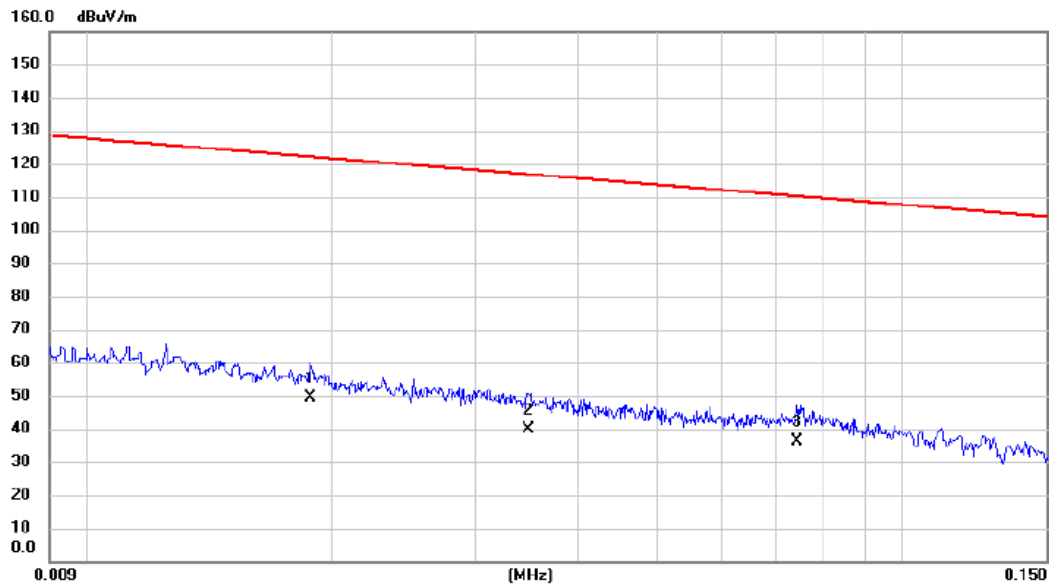
REMARKS:

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

APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

Test Mode:	TX AC80 MODE CHANNEL 155
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Ant 0°



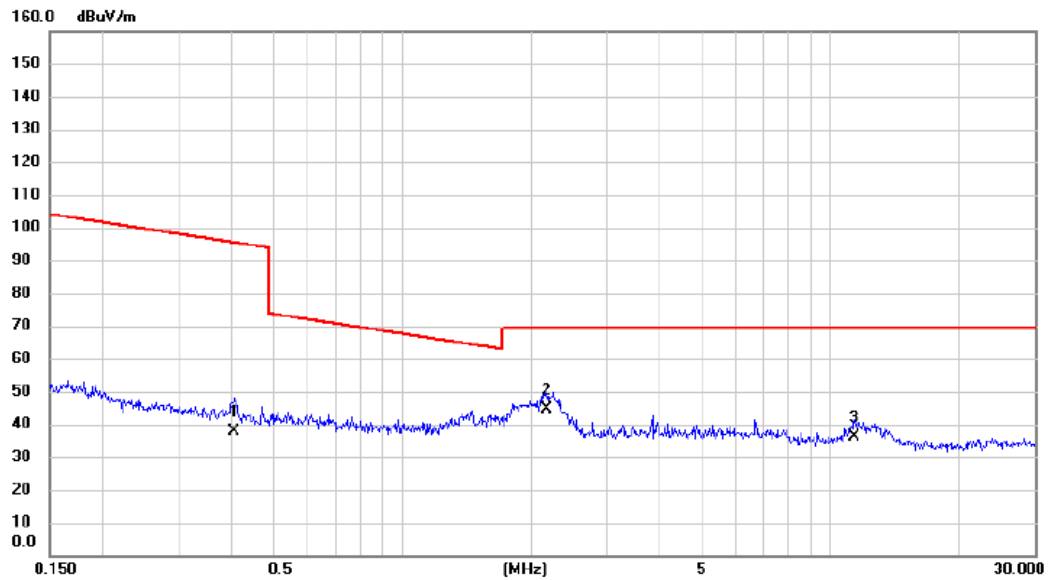
No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0188	35.92	13.49	49.41	122.12	-72.71	AVG	
2		0.0348	27.14	12.74	39.88	116.77	-76.89	AVG	
3		0.0742	23.68	12.48	36.16	110.20	-74.04	AVG	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 155

Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4061	25.94	12.04	37.98	95.43	-57.45	AVG	
2	*	2.1783	33.83	10.91	44.74	69.54	-24.80	QP	
3		11.3771	25.27	10.87	36.14	69.54	-33.40	QP	

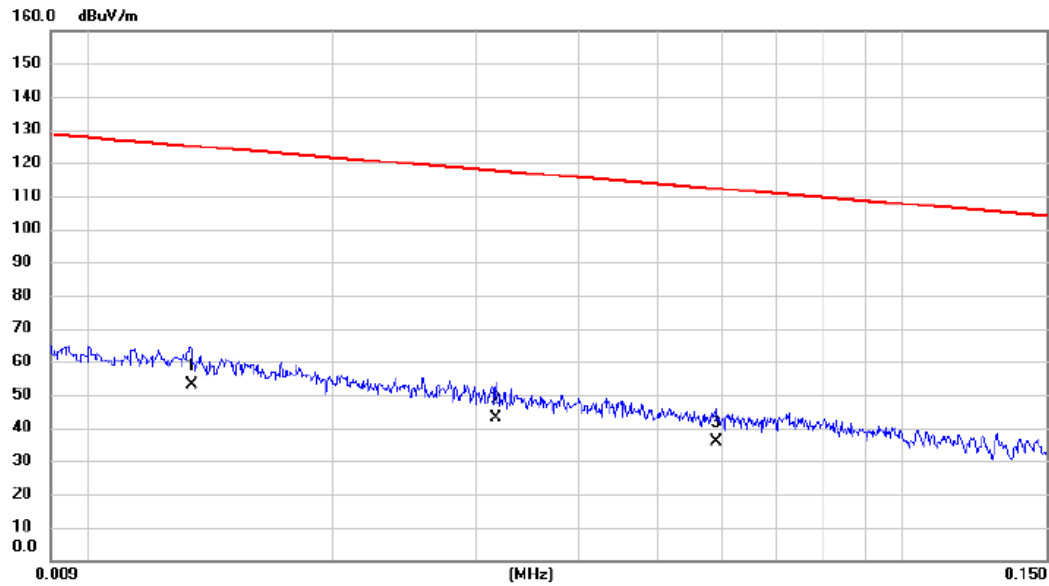
REMARKS:

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

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

Test Mode:	TX AC80 MODE CHANNEL 155
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Ant 90°



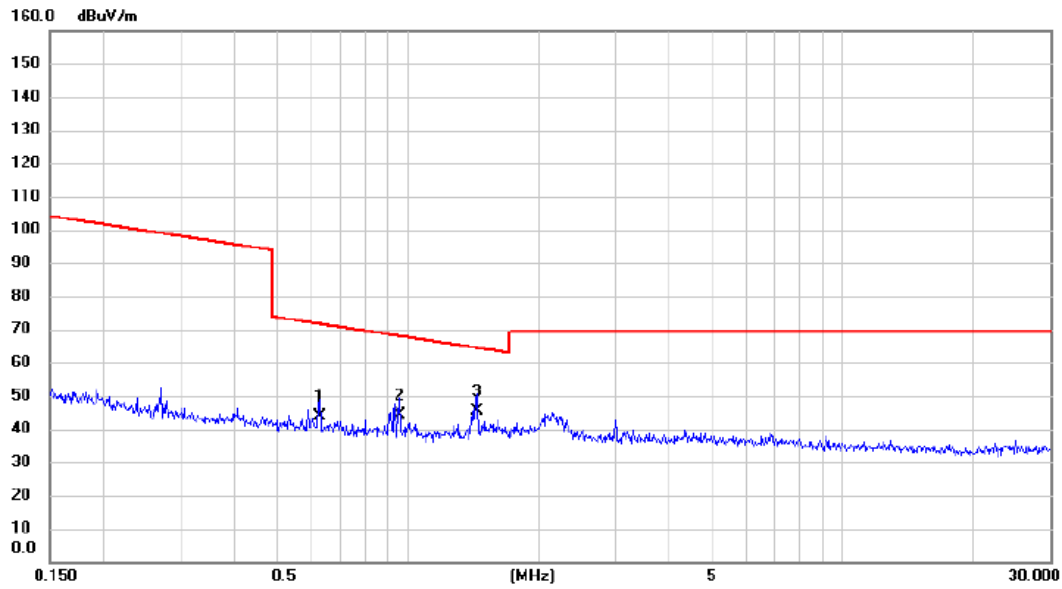
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0134	37.87	15.17	53.04	125.06	-72.02	AVG	
2		0.0317	30.16	12.81	42.97	117.58	-74.61	AVG	
3		0.0590	23.26	12.38	35.64	112.19	-76.55	AVG	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 155

Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.6271	31.97	11.72	43.69	71.66	-27.97	QP	
2		0.9582	32.45	11.62	44.07	67.98	-23.91	QP	
3	*	1.4410	33.89	11.35	45.24	64.43	-19.19	QP	

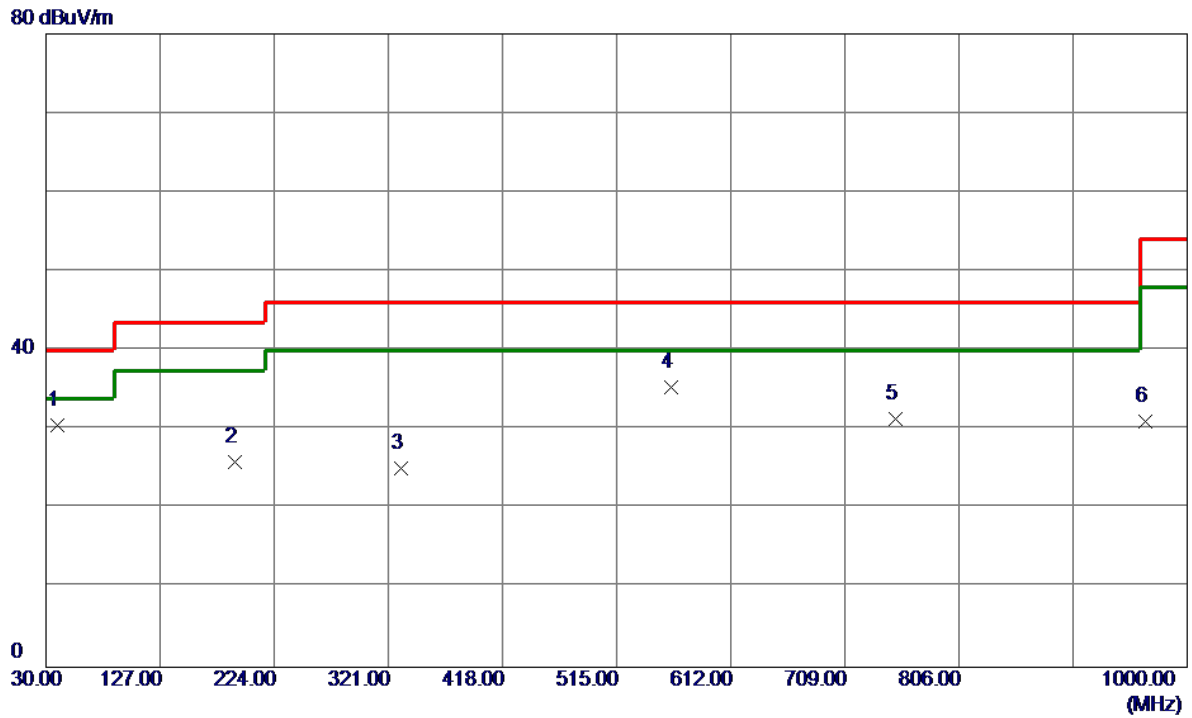
REMARKS:

- (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 AC80 MODE CHANNEL 155
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Vertical



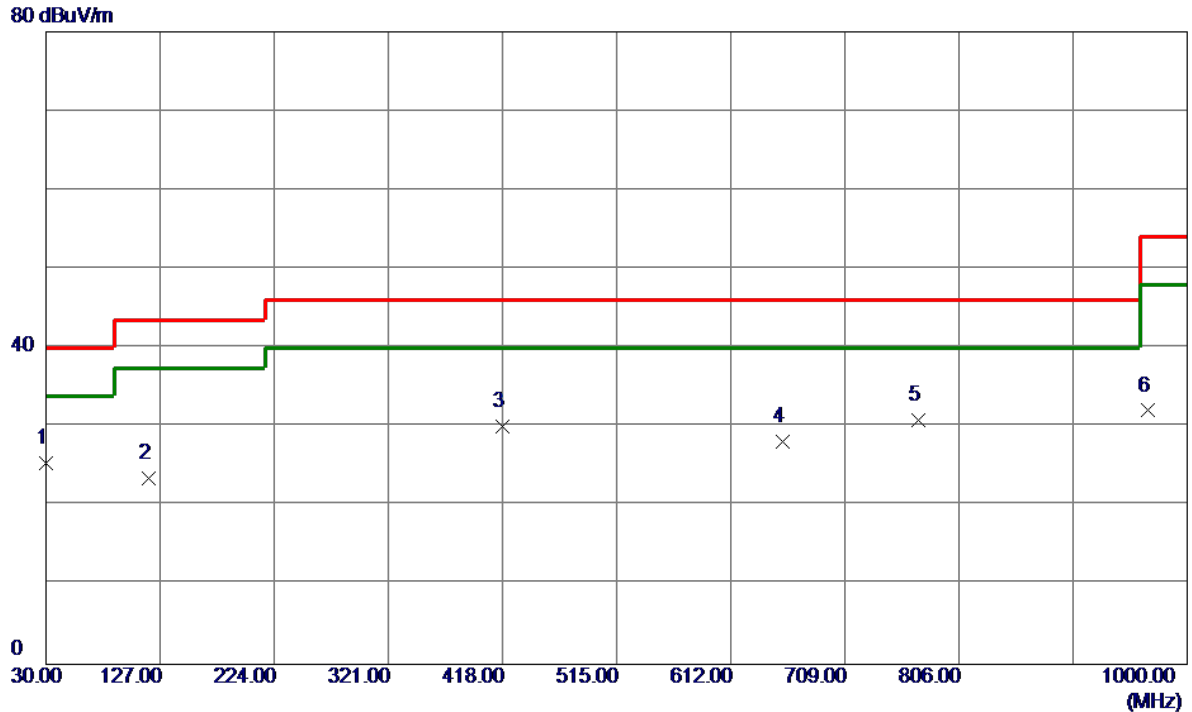
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	39.7000	44.07	-13.48	30.59	40.00	-9.41	Peak	
2	190.0500	39.86	-13.93	25.93	43.50	-17.57	Peak	
3	331.6700	35.35	-10.27	25.08	46.00	-20.92	Peak	
4	561.5600	41.55	-6.14	35.41	46.00	-10.59	Peak	
5	751.6800	34.05	-2.76	31.29	46.00	-14.71	Peak	
6	964.1100	30.03	0.97	31.00	54.00	-23.00	Peak	

REMARKS:

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

Test Mode: TX AC80 MODE CHANNEL 155

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	30.0000	40.02	-14.60	25.42	40.00	-14.58	Peak	
2	117.3000	36.57	-13.01	23.56	43.50	-19.94	Peak	
3	418.0000	38.31	-8.25	30.06	46.00	-15.94	Peak	
4	656.6200	31.97	-3.79	28.18	46.00	-17.82	Peak	
5	771.0800	33.44	-2.49	30.95	46.00	-15.05	Peak	
6	967.0200	31.05	1.03	32.08	54.00	-21.92	Peak	

REMARKS:

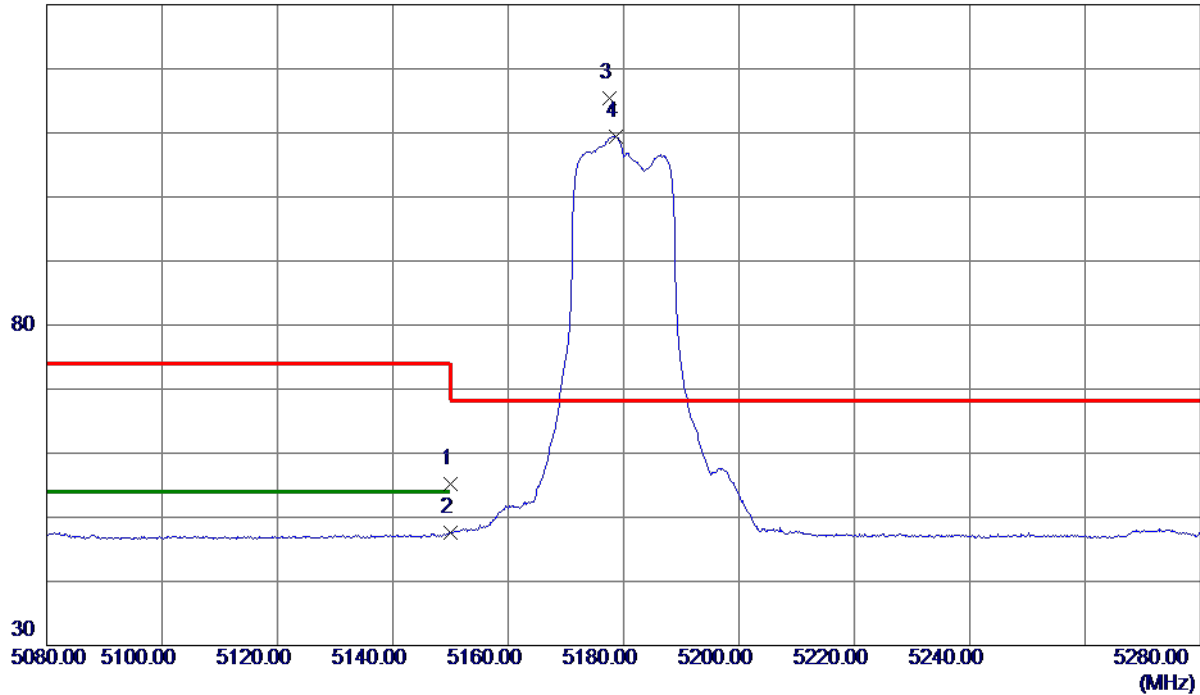
- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ

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

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	38.04	17.18	55.22	74.00	-18.78	Peak	
2	5150.0000	30.45	17.18	47.63	54.00	-6.37	AVG	
3 *	5177.6000	98.19	17.21	115.40	68.30	47.10	Peak	No Limit
4	5178.6000	92.19	17.21	109.40	999.00	-889.60	AVG	No Limit

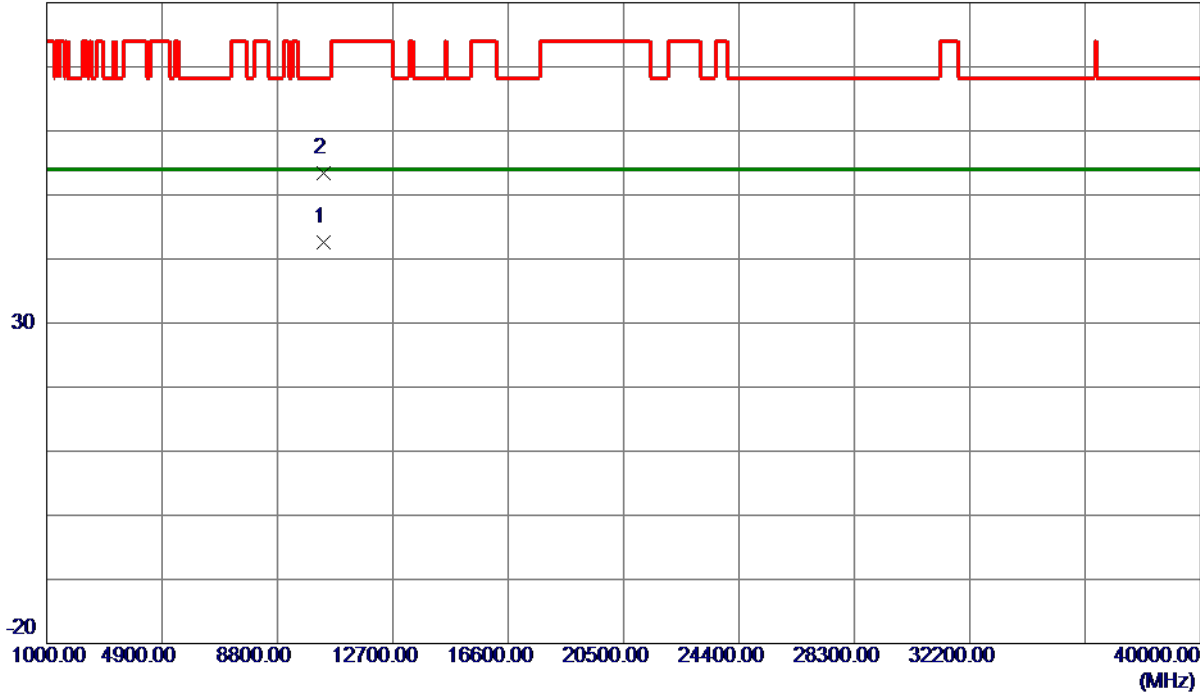
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10359.8450	28.06	14.62	42.68	54.00	-11.32	AVG	
2	10359.9120	38.72	14.62	53.34	68.30	-14.96	Peak	

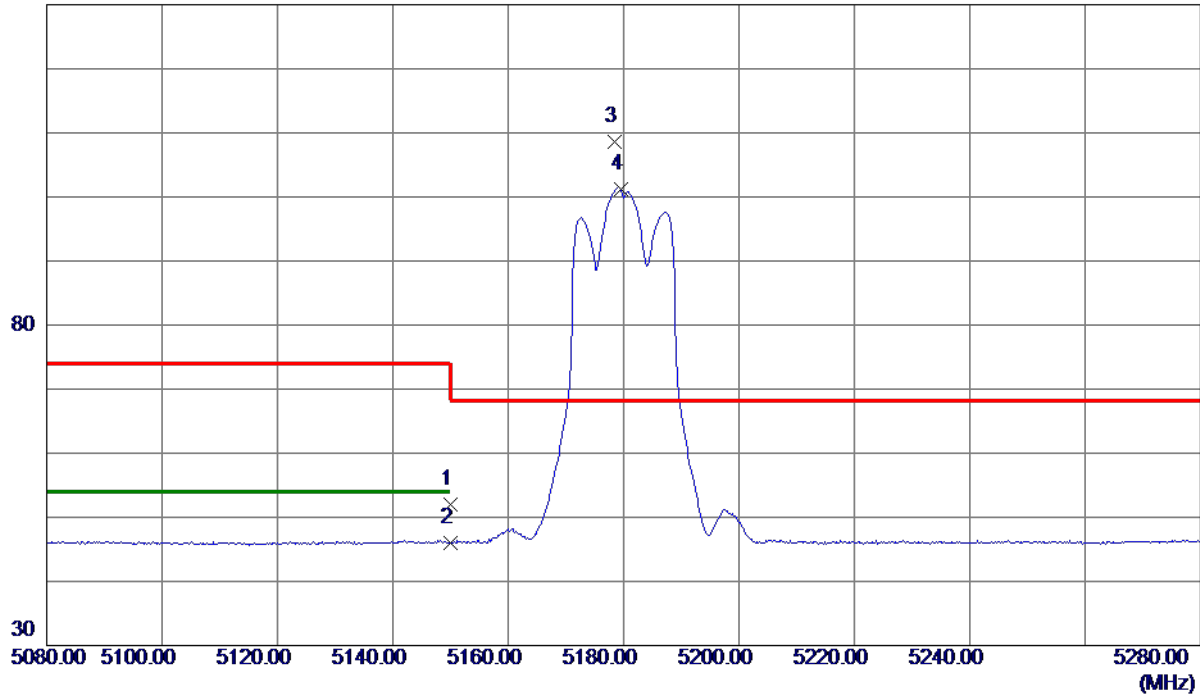
REMARKS:

- (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	34.89	17.18	52.07	74.00	-21.93	Peak	
2	5150.0000	28.76	17.18	45.94	54.00	-8.06	AVG	
3 *	5178.4000	91.47	17.21	108.68	68.30	40.38	Peak	No Limit
4	5179.6000	83.93	17.21	101.14	999.00	-897.86	AVG	No Limit

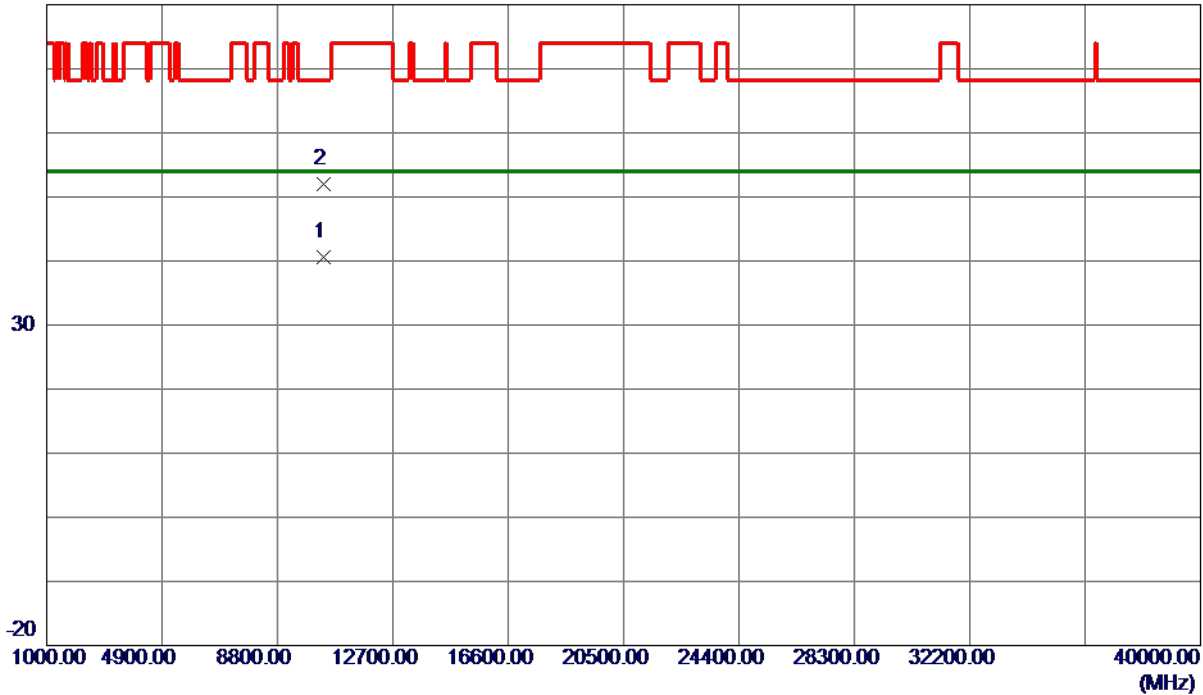
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10359.6650	26.04	14.62	40.66	54.00	-13.34	AVG	
2	10359.8400	37.44	14.62	52.06	68.30	-16.24	Peak	

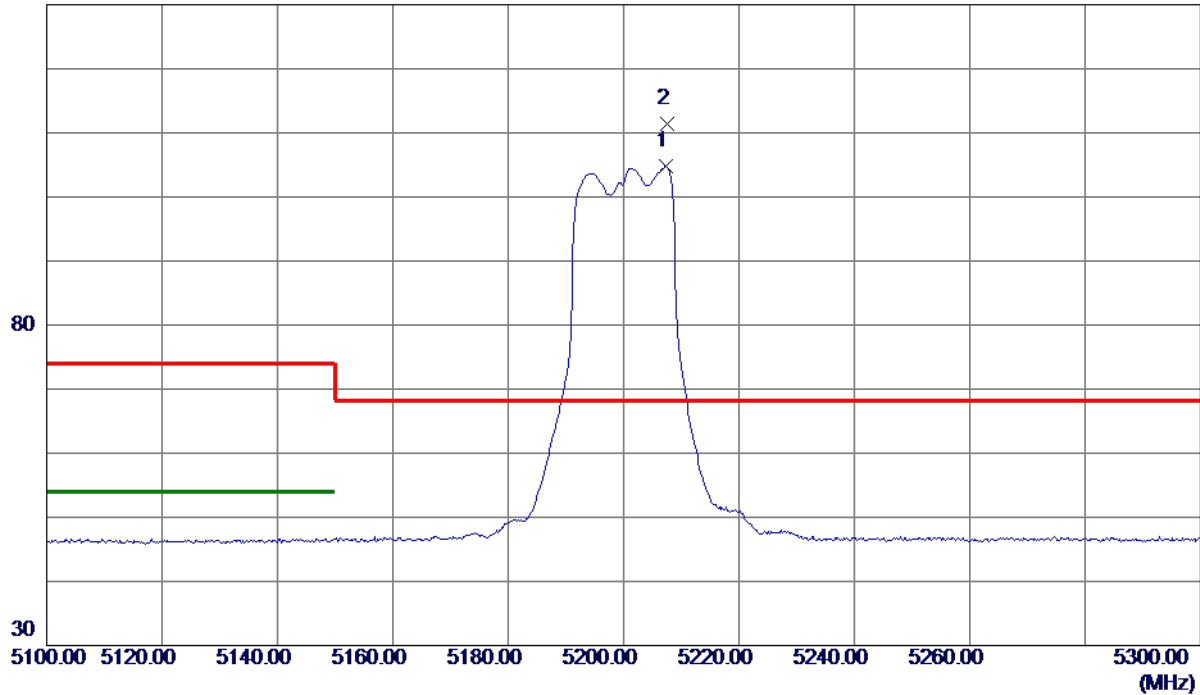
REMARKS:

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

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

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5207.4000	87.55	17.24	104.79	999.00	-894.21	AVG	No Limit
2 *	5207.6000	94.23	17.24	111.47	68.30	43.17	Peak	No Limit

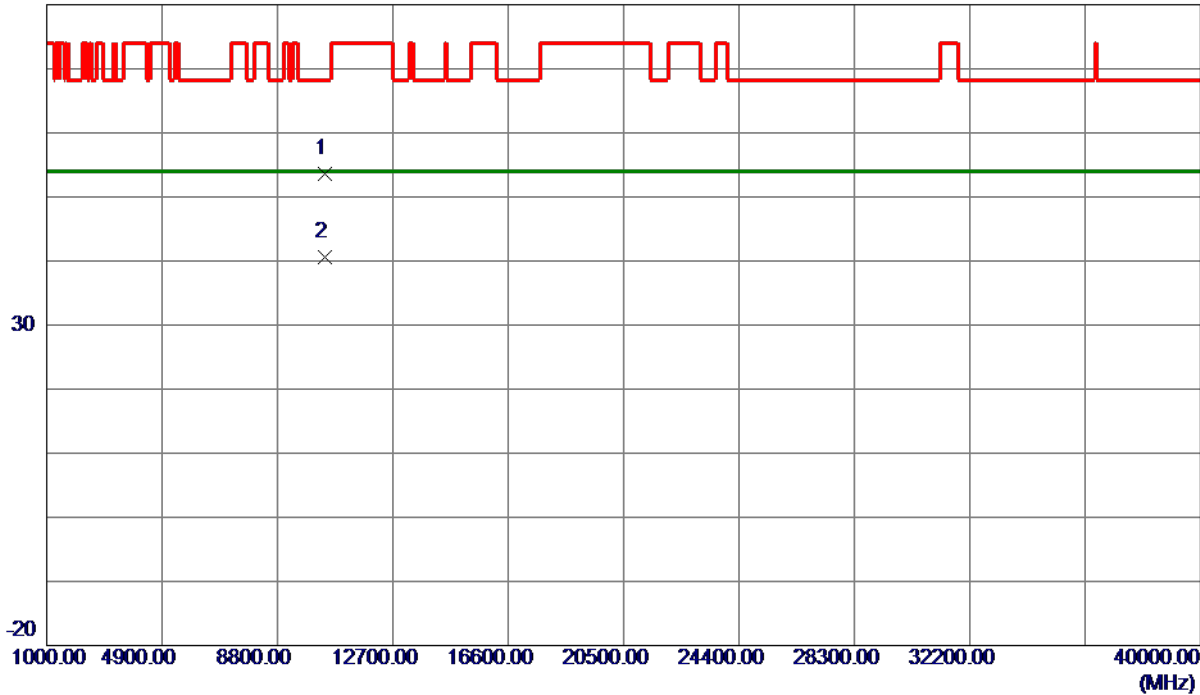
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10400.7440	38.89	14.69	53.58	68.30	-14.72	Peak	
2 *	10400.7890	25.96	14.69	40.65	54.00	-13.35	AVG	

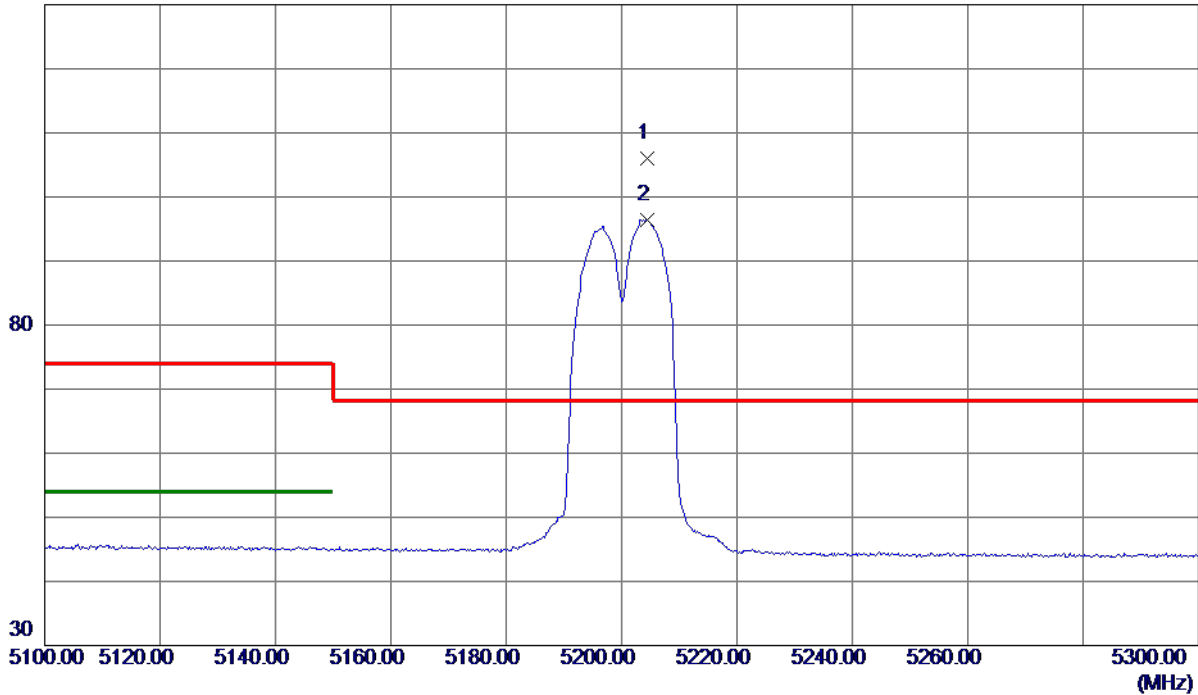
REMARKS:

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

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

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5204.4000	88.65	17.37	106.02	68.30	37.72	Peak	No Limit
2	5204.4000	79.08	17.37	96.45	999.00	-902.55	AVG	No Limit

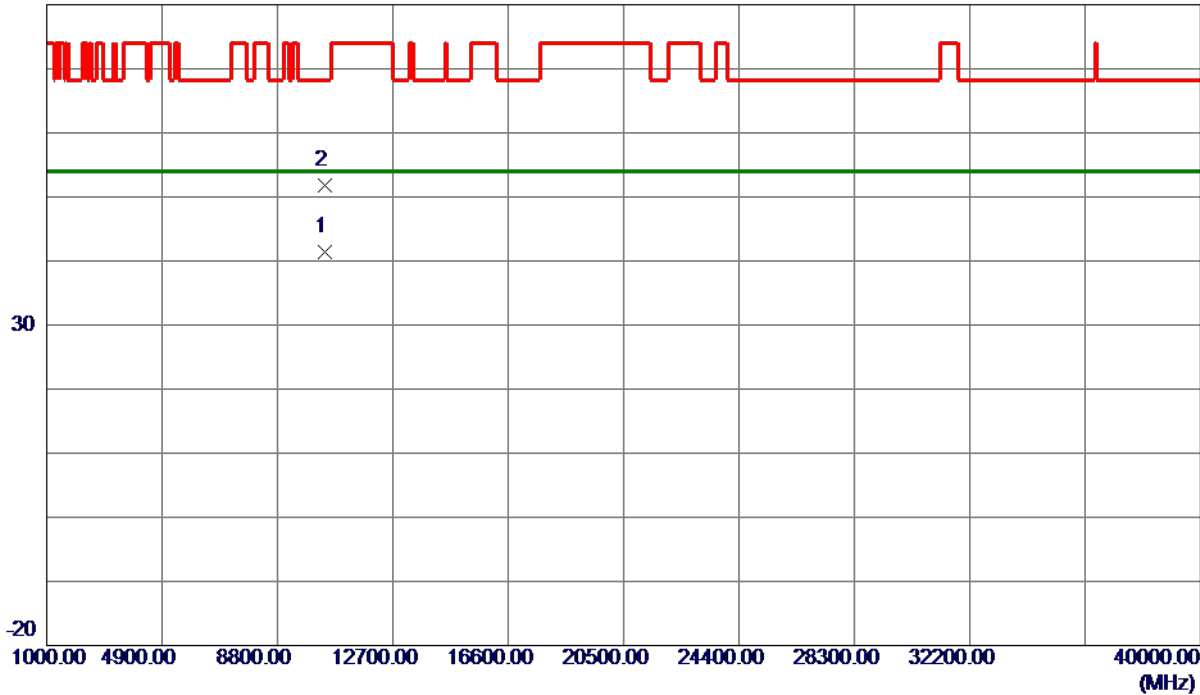
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10399.6660	26.68	14.69	41.37	54.00	-12.63	AVG	
2	10399.7450	37.02	14.69	51.71	68.30	-16.59	Peak	

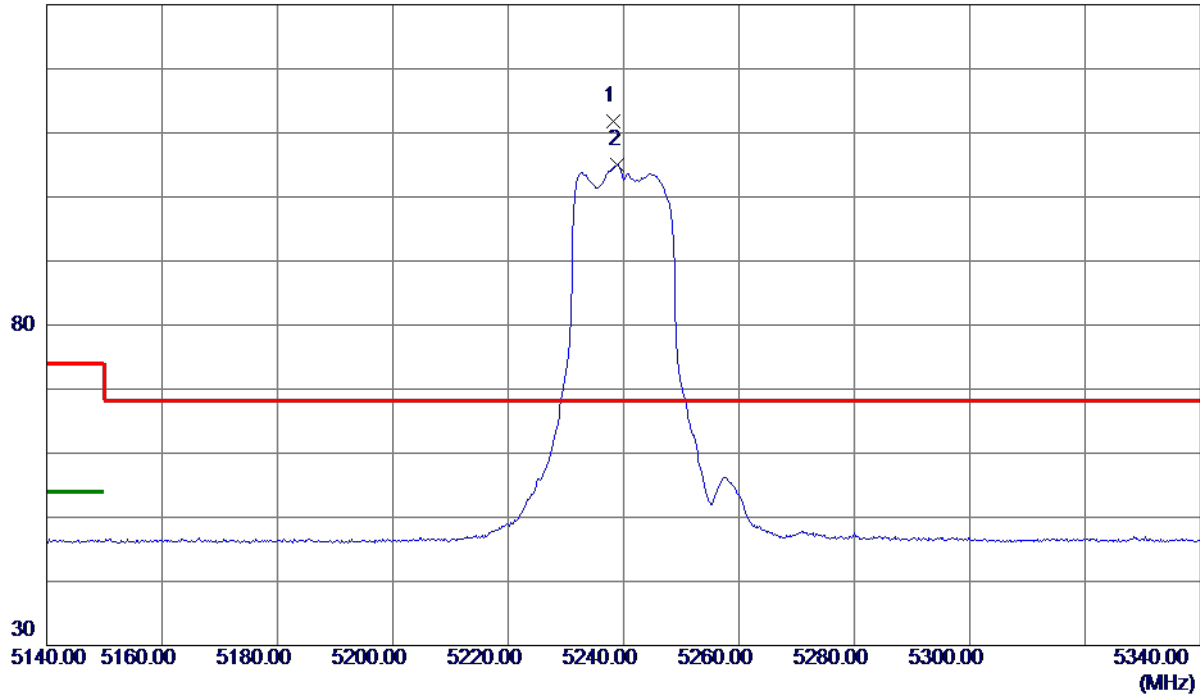
REMARKS:

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

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

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5238.2000	94.45	17.28	111.73	68.30	43.43	Peak	No Limit
2	5239.0000	87.66	17.28	104.94	999.00	-894.06	AVG	No Limit

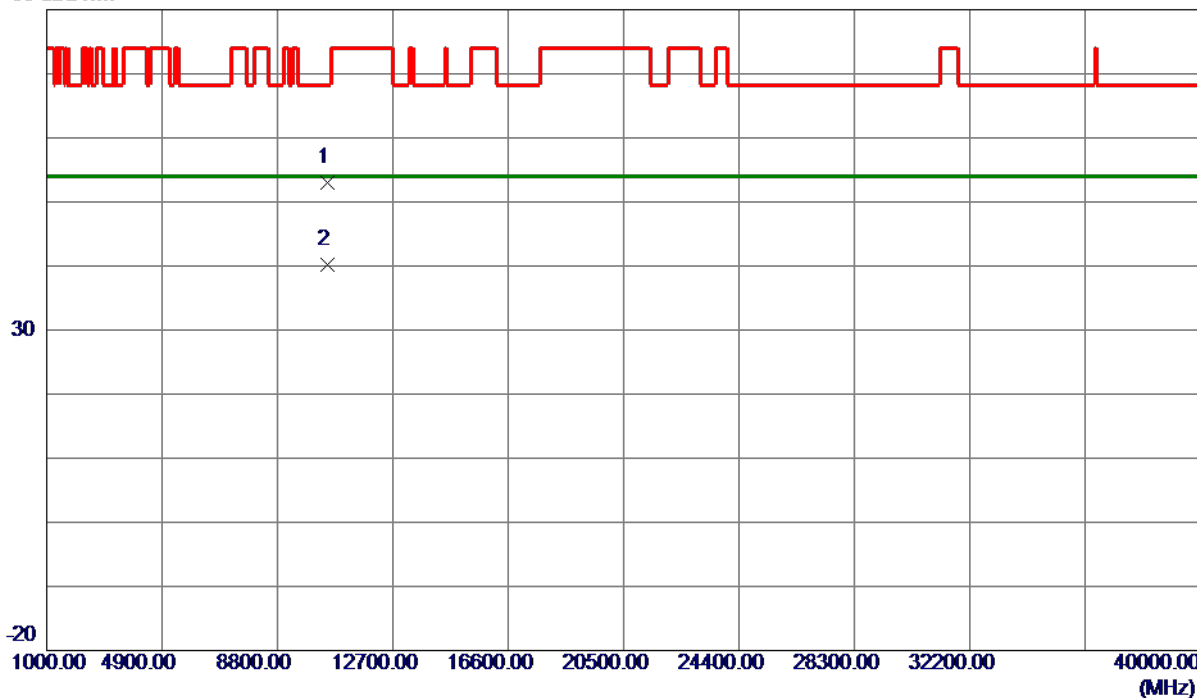
REMARKS:

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

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

Vertical

80 dBuV/m

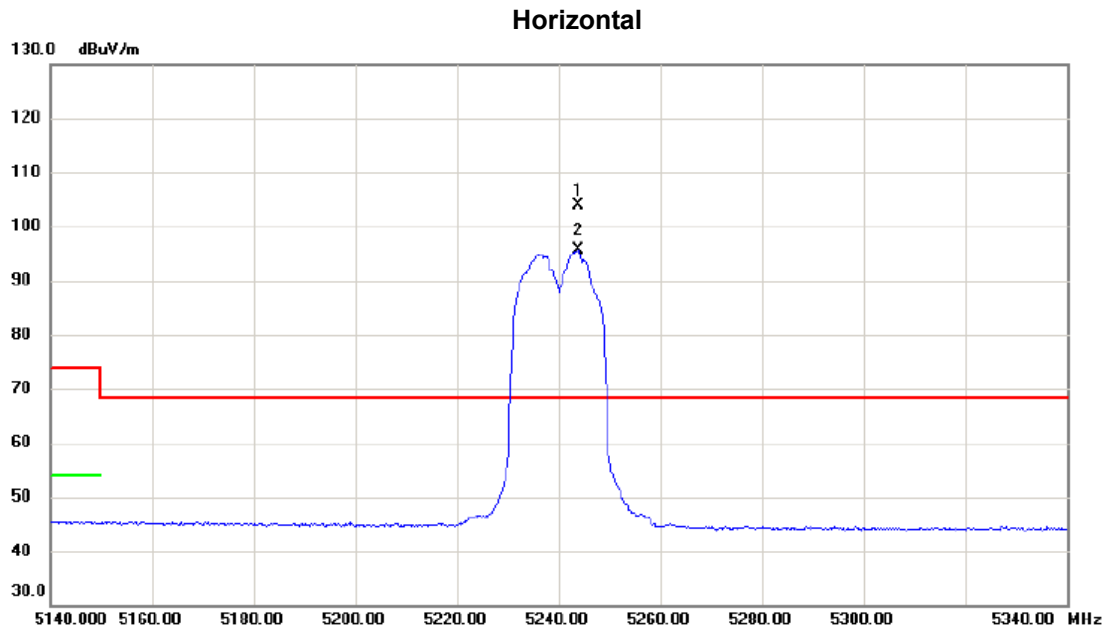


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10480.6289	38.23	14.83	53.06	68.30	-15.24	Peak	
2 *	10480.7520	25.32	14.83	40.15	54.00	-13.85	AVG	

REMARKS:

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

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



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5243.800	86.52	17.44	103.96	68.30	35.66	peak	No Limit
2	X	5243.800	78.07	17.44	95.51	68.30	27.21	AVG	No Limit

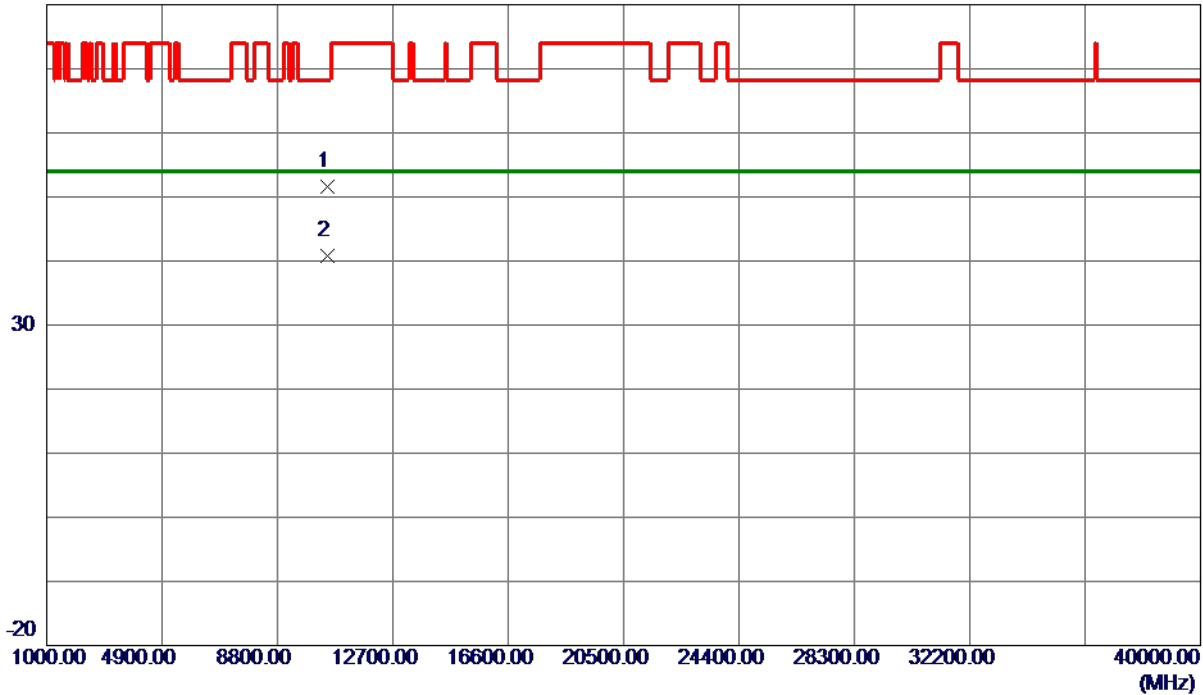
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10480.0400	36.74	14.83	51.57	68.30	-16.73	Peak	
2 *	10480.0580	26.00	14.83	40.83	54.00	-13.17	AVG	

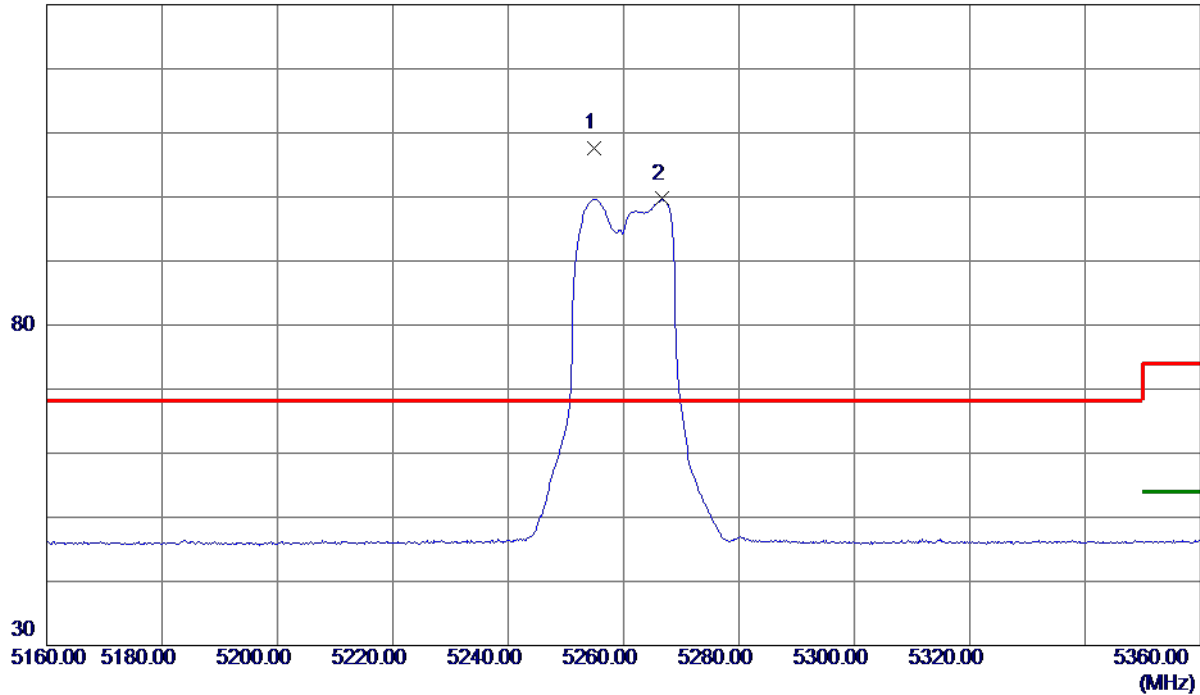
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 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 *	5254.8000	90.25	17.30	107.55	68.30	39.25	Peak	No Limit
2	5266.6000	82.39	17.31	99.70	999.00	-899.30	AVG	No Limit

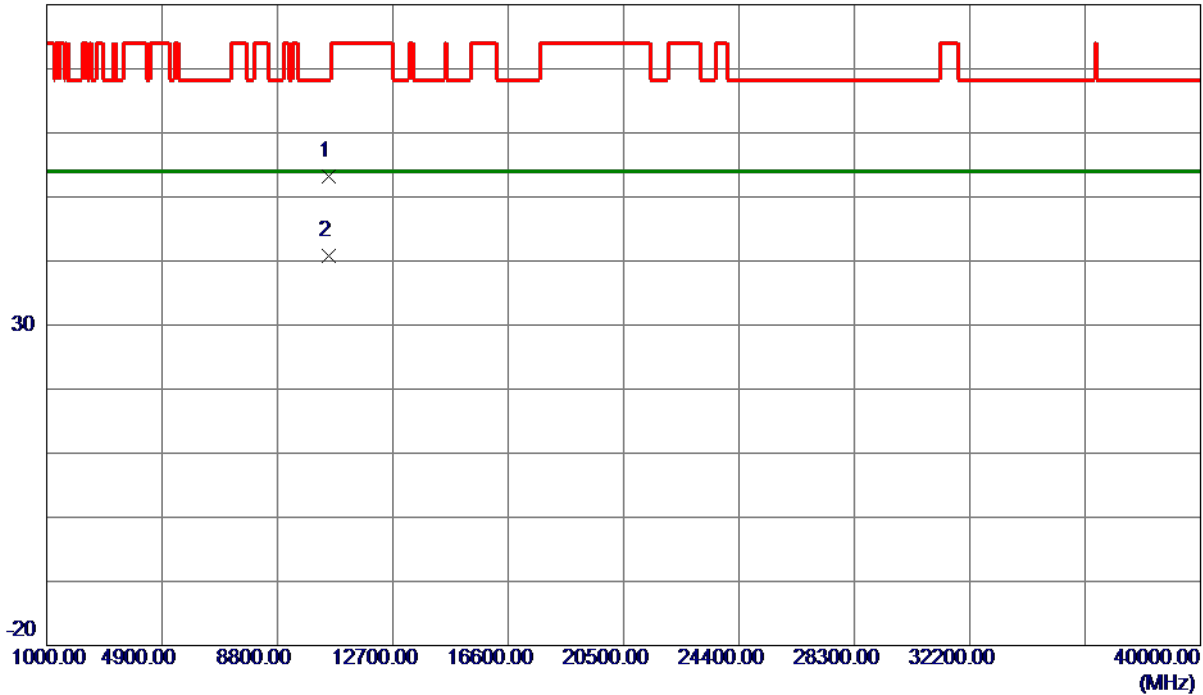
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10520.1140	38.31	14.91	53.22	68.30	-15.08	Peak	
2 *	10520.1840	25.93	14.91	40.84	54.00	-13.16	AVG	

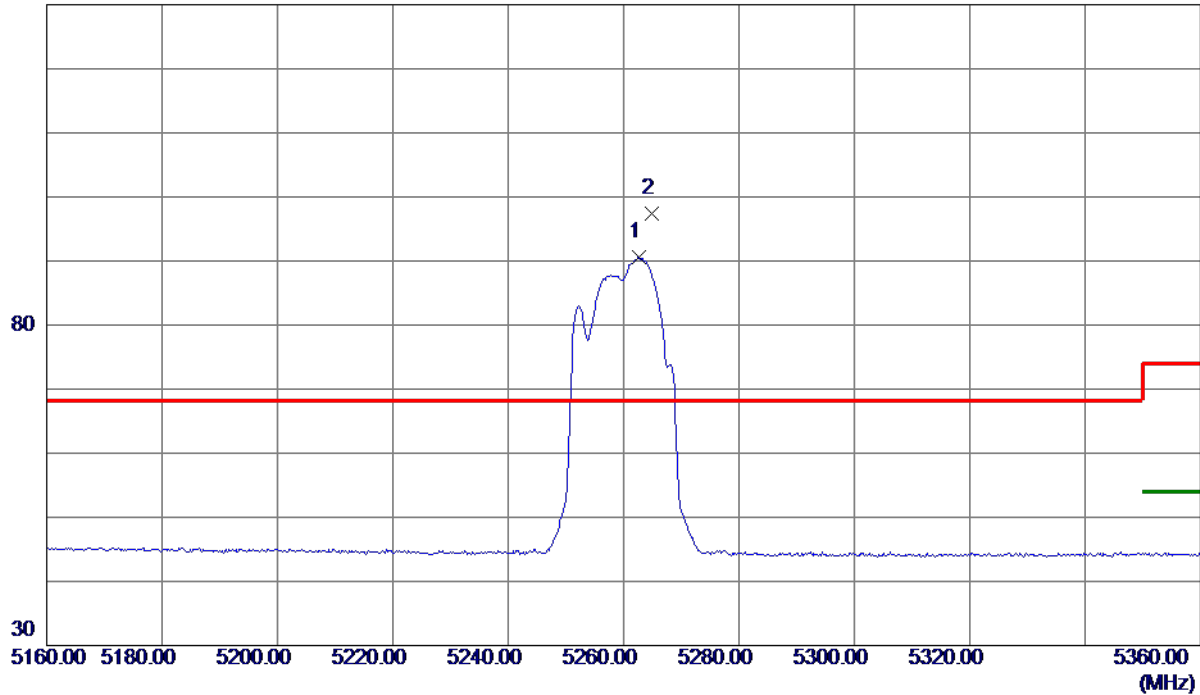
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 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	5262.6000	73.18	17.48	90.66	999.00	-908.34	AVG	No Limit
2 *	5264.8000	79.94	17.49	97.43	68.30	29.13	Peak	No Limit

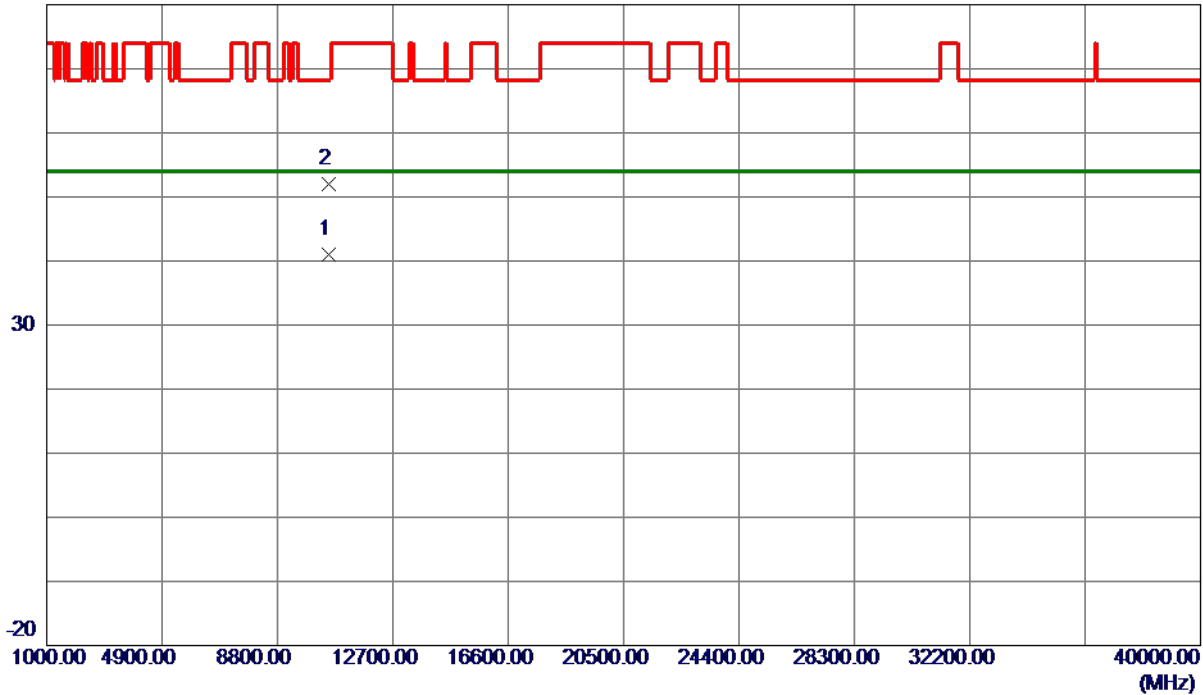
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5260 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10520.0050	26.08	14.91	40.99	54.00	-13.01	AVG	
2	10520.0350	37.17	14.91	52.08	68.30	-16.22	Peak	

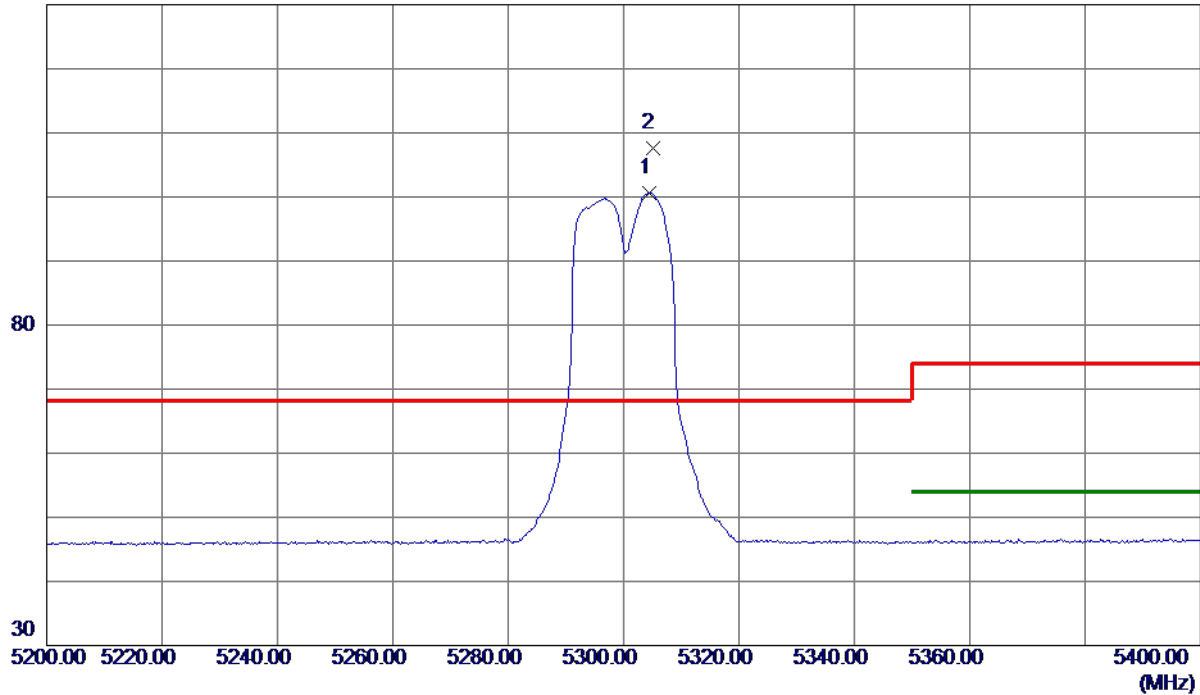
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 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	5304.4000	83.30	17.36	100.66	999.00	-898.34	AVG	No Limit
2 *	5305.0000	90.27	17.36	107.63	68.30	39.33	Peak	No Limit

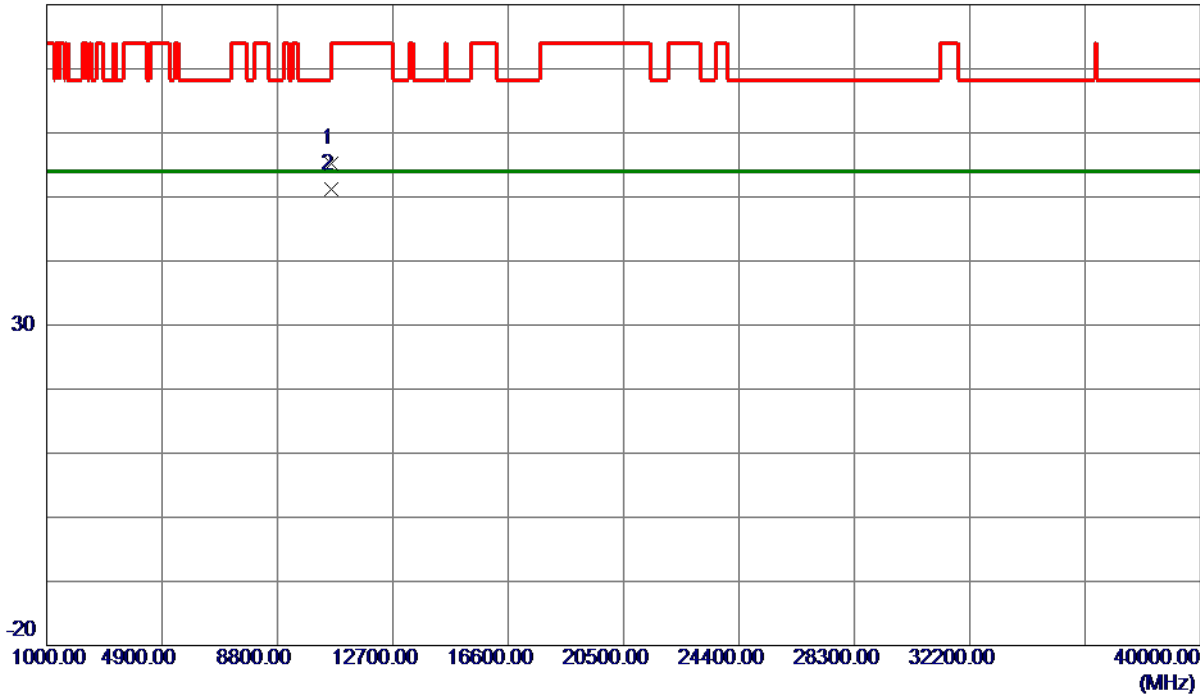
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10599.7060	40.05	15.09	55.14	68.30	-13.16	Peak	
2 *	10600.0630	36.20	15.09	51.29	54.00	-2.71	AVG	

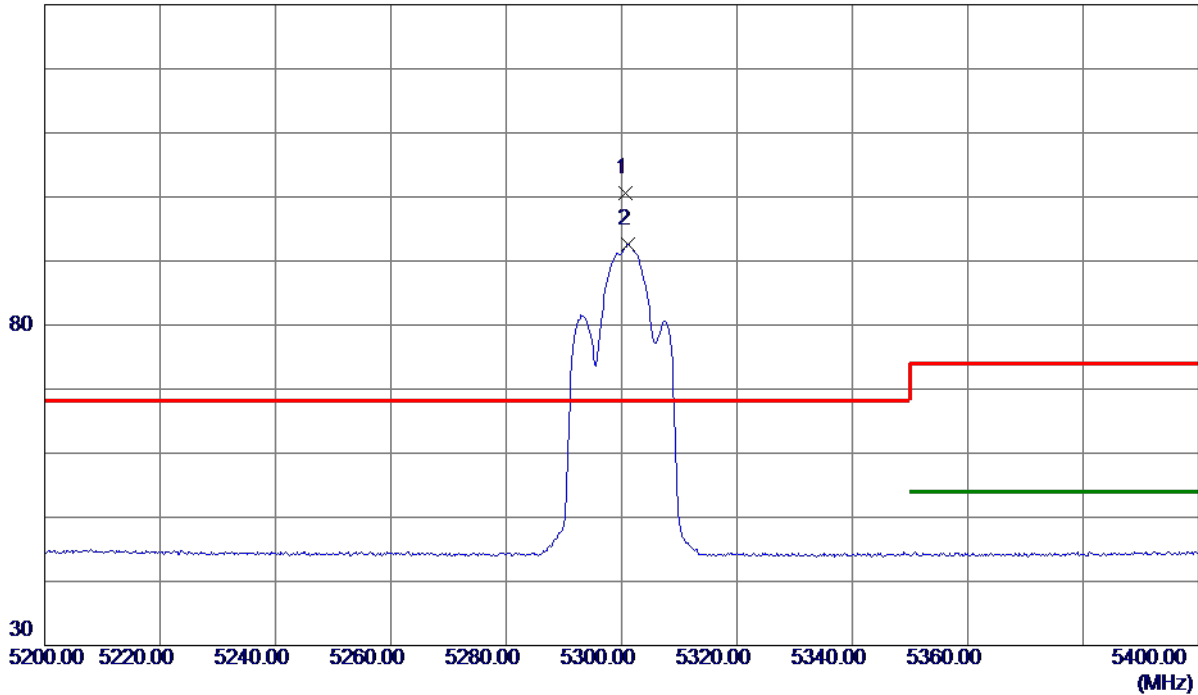
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 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 *	5300.6000	83.08	17.56	100.64	68.30	32.34	Peak	No Limit
2	5301.2000	75.11	17.56	92.67	999.00	-906.33	AVG	No Limit

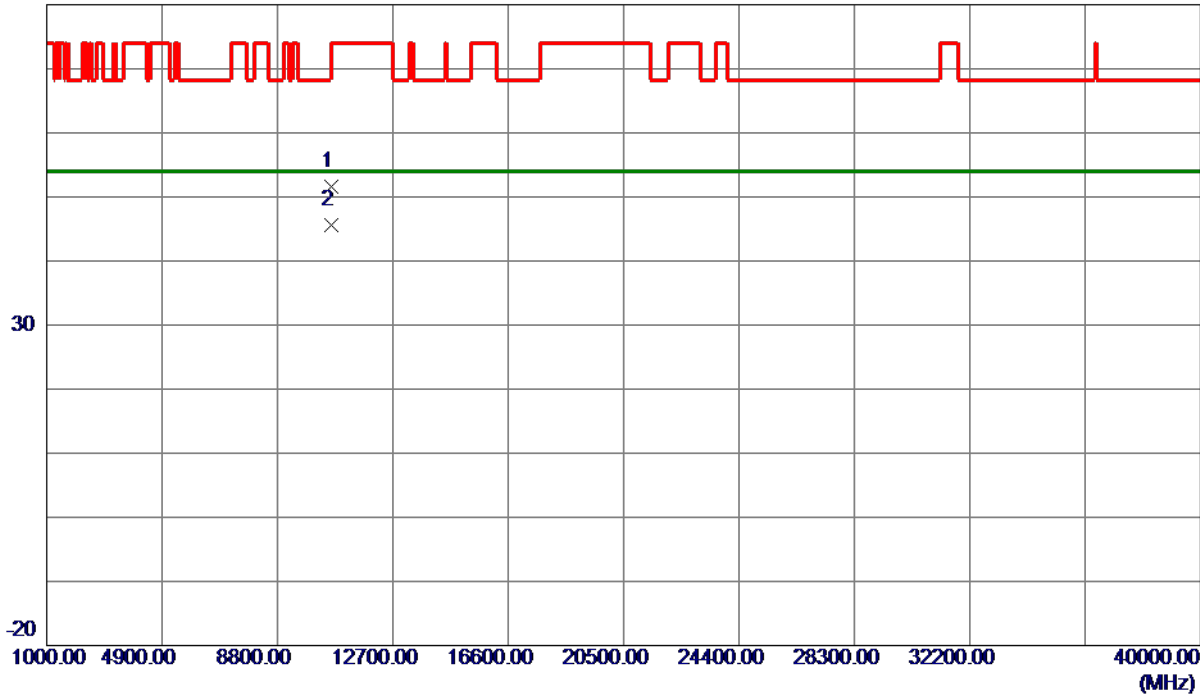
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5300 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10599.9450	36.46	15.09	51.55	68.30	-16.75	Peak	
2 *	10600.9349	30.47	15.09	45.56	54.00	-8.44	AVG	

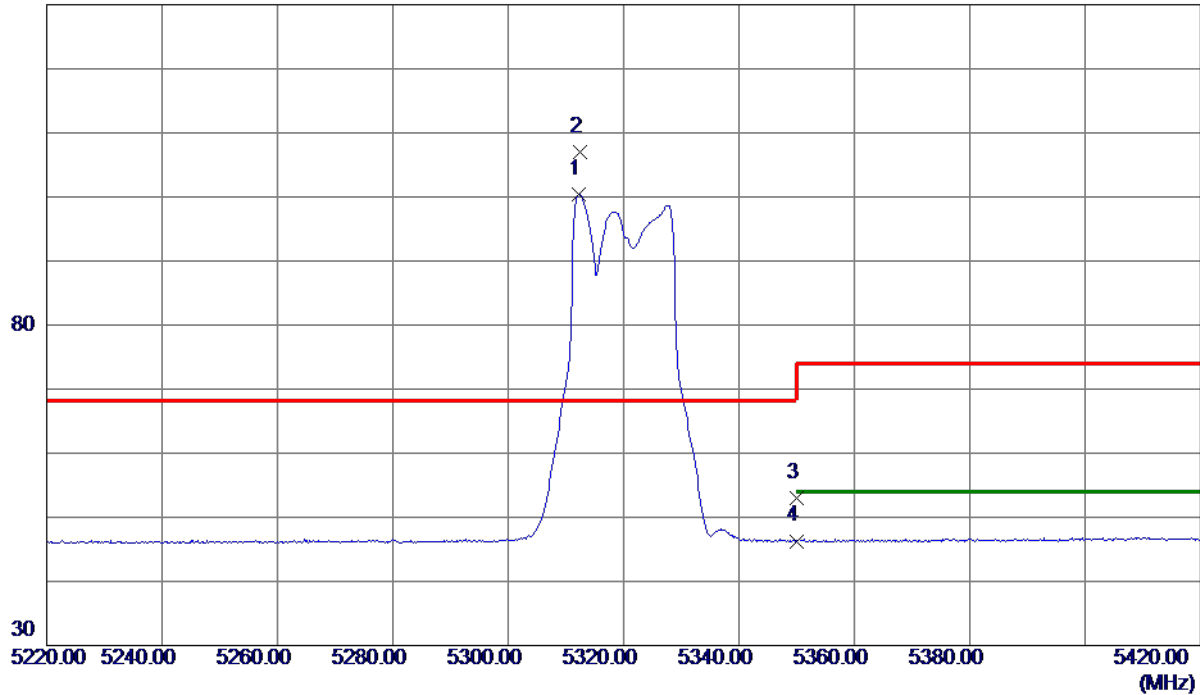
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 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	5312.2000	82.96	17.37	100.33	999.00	-898.67	AVG	No Limit
2 *	5312.4000	89.64	17.37	107.01	68.30	38.71	Peak	No Limit
3	5350.0000	35.56	17.41	52.97	74.00	-21.03	Peak	
4	5350.0000	28.89	17.41	46.30	74.00	-27.70	Peak	

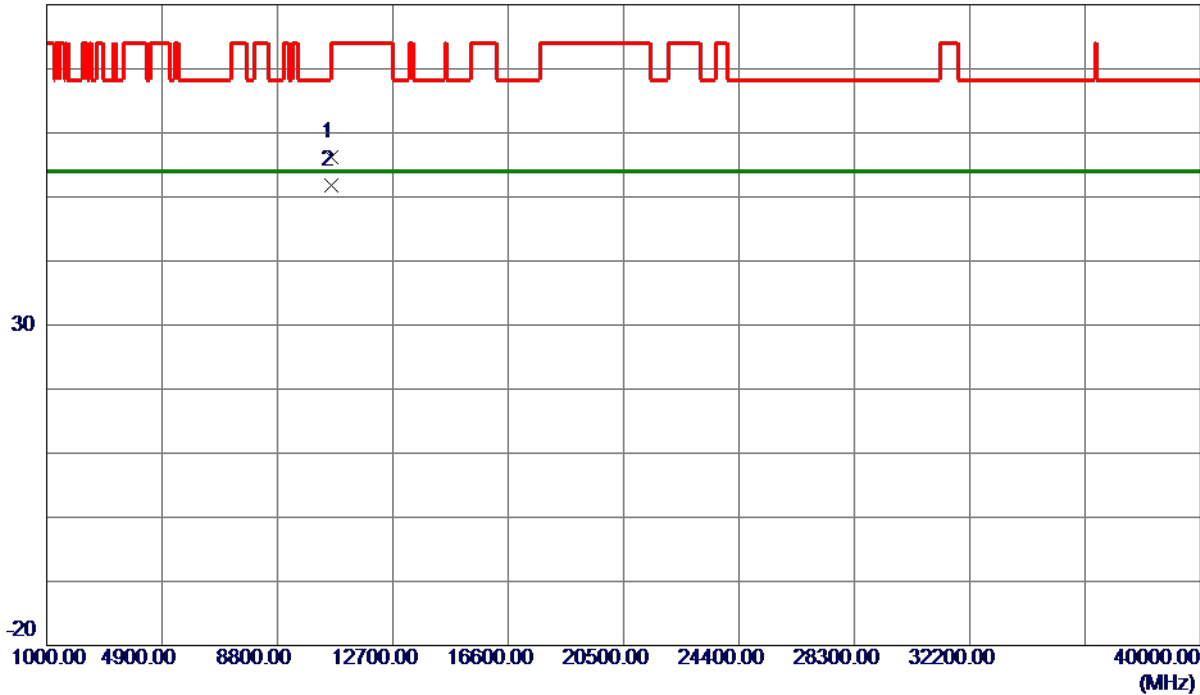
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 MHz

Vertical

80 dBuV/m

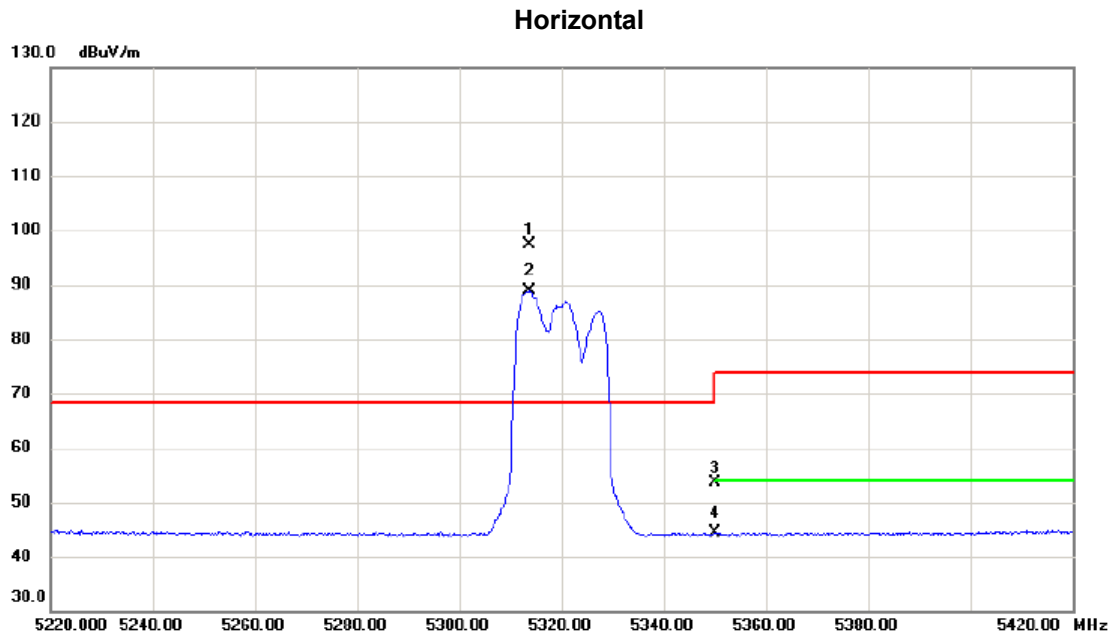


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10639.9300	41.00	15.18	56.18	74.00	-17.82	Peak	
2 *	10640.0030	36.71	15.18	51.89	54.00	-2.11	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5313.600	79.86	17.58	97.44	68.30	29.14	peak	No Limit
2	X	5313.800	71.25	17.58	88.83	68.30	20.53	AVG	No Limit
3		5350.000	35.88	17.66	53.54	74.00	-20.46	peak	
4		5350.000	26.65	17.66	44.31	54.00	-9.69	AVG	

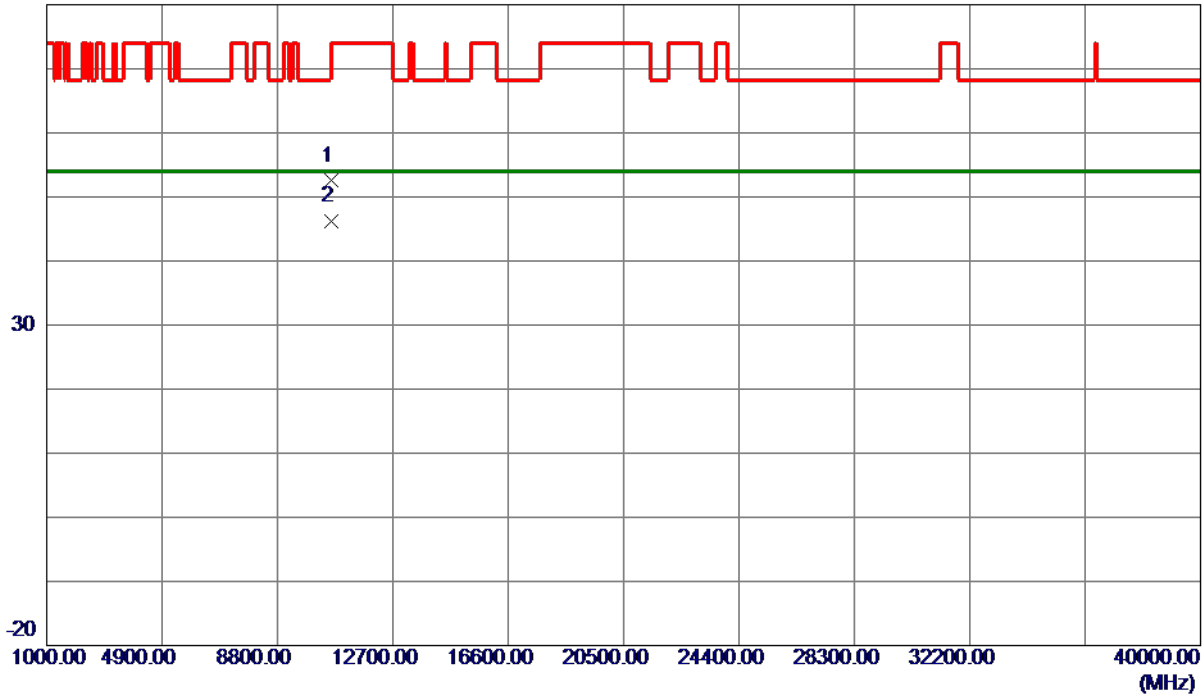
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX A Mode 5320 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10639.7990	37.32	15.18	52.50	74.00	-21.50	Peak	
2 *	10639.9240	31.10	15.18	46.28	54.00	-7.72	AVG	

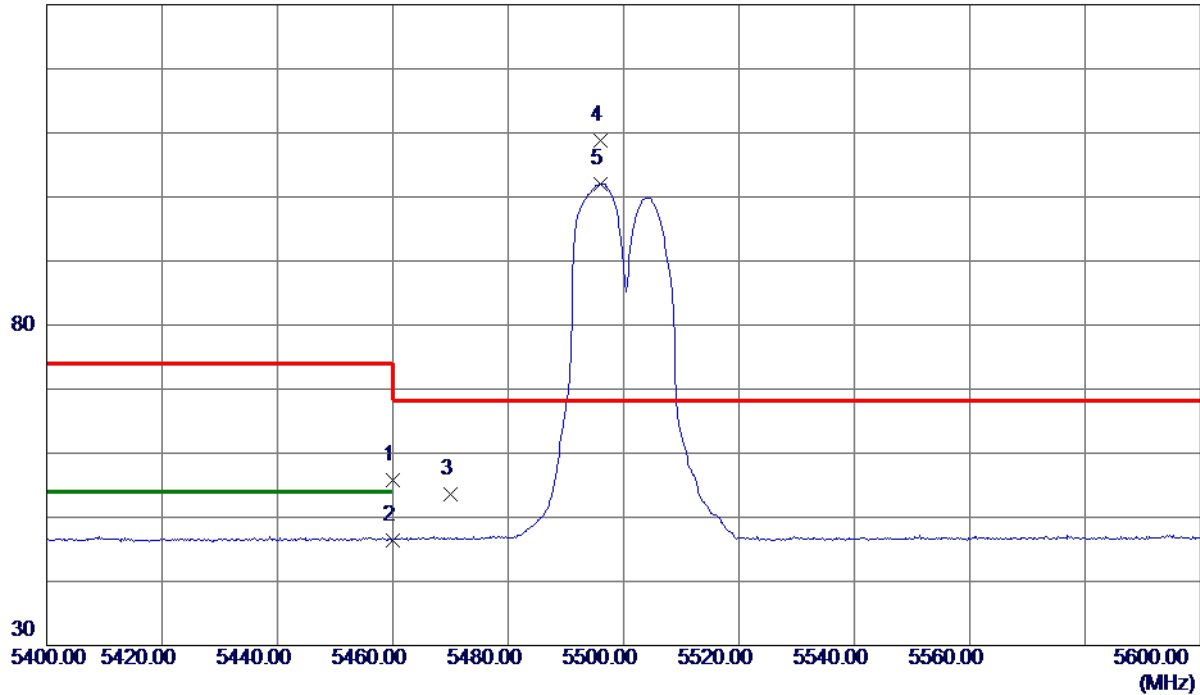
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 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	5460.0000	38.24	17.54	55.78	74.00	-18.22	Peak	
2	5460.0000	28.94	17.54	46.48	54.00	-7.52	AVG	
3	5470.0000	36.14	17.55	53.69	68.30	-14.61	Peak	
4 *	5496.0000	91.31	17.58	108.89	68.30	40.59	Peak	No Limit
5	5496.0000	84.40	17.58	101.98	999.00	-897.02	AVG	No Limit

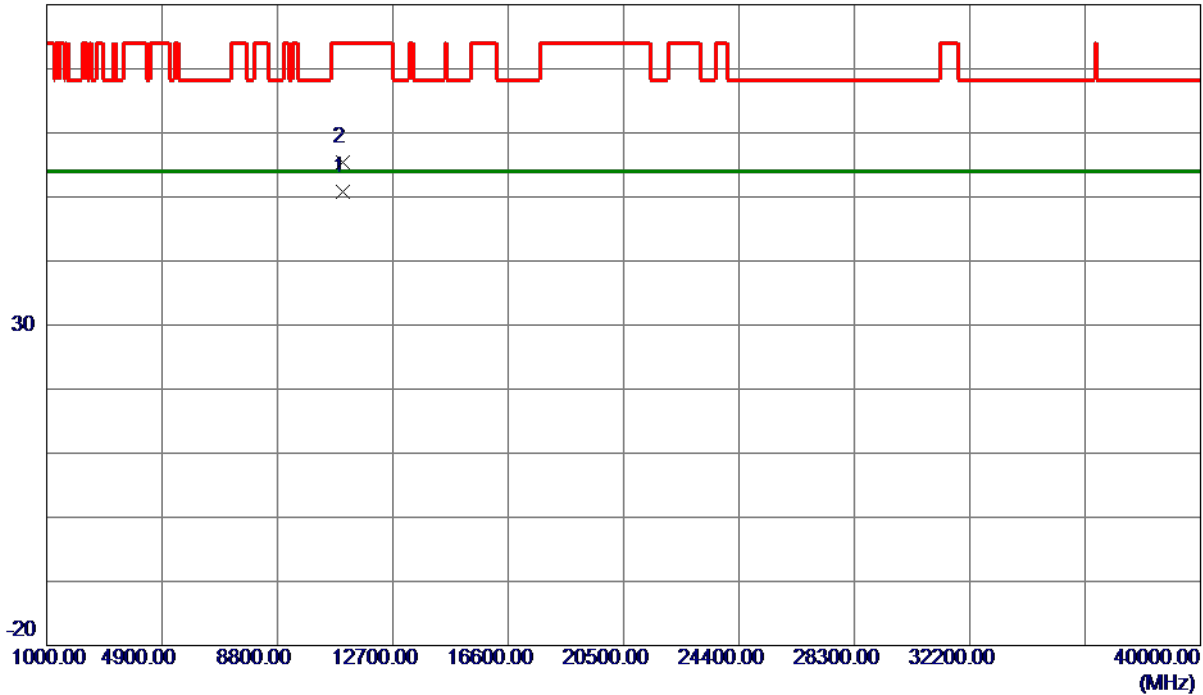
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10999.9600	34.81	15.99	50.80	54.00	-3.20	AVG	
2	11000.9740	39.39	15.99	55.38	74.00	-18.62	Peak	

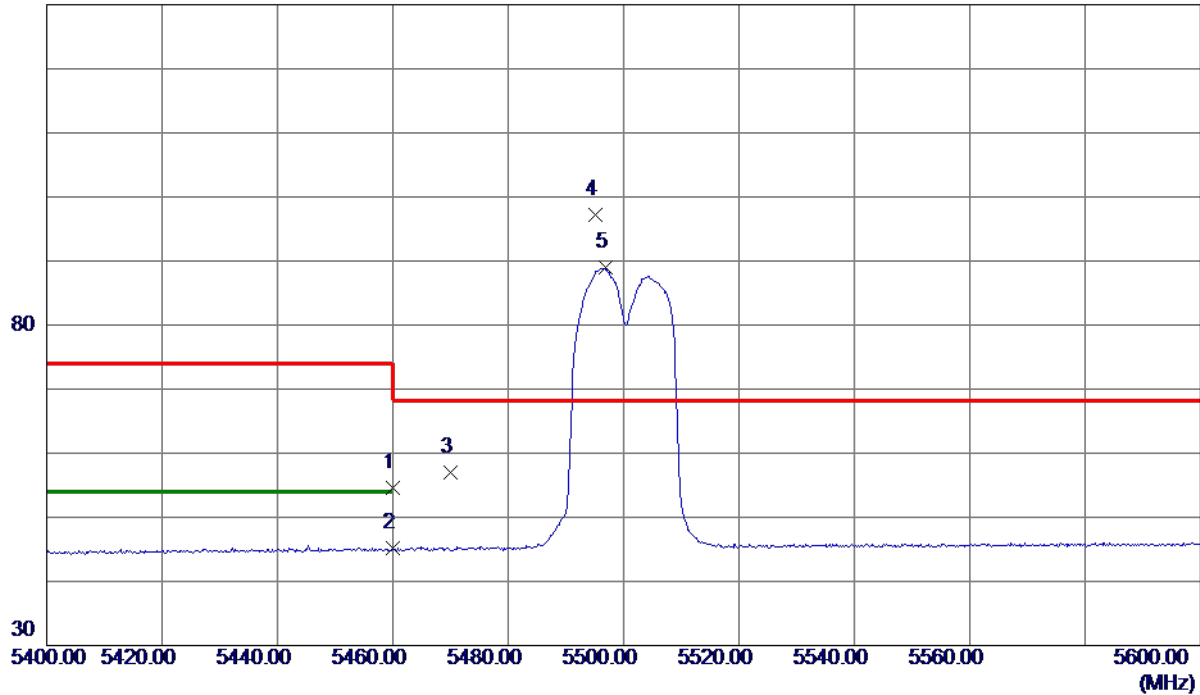
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 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	5460.0000	36.78	17.88	54.66	74.00	-19.34	Peak	
2	5460.0000	27.37	17.88	45.25	54.00	-8.75	AVG	
3	5470.0000	39.10	17.90	57.00	68.30	-11.30	Peak	
4 *	5495.2000	79.31	17.95	97.26	68.30	28.96	Peak	No Limit
5	5496.8000	70.95	17.95	88.90	999.00	-910.10	AVG	No Limit

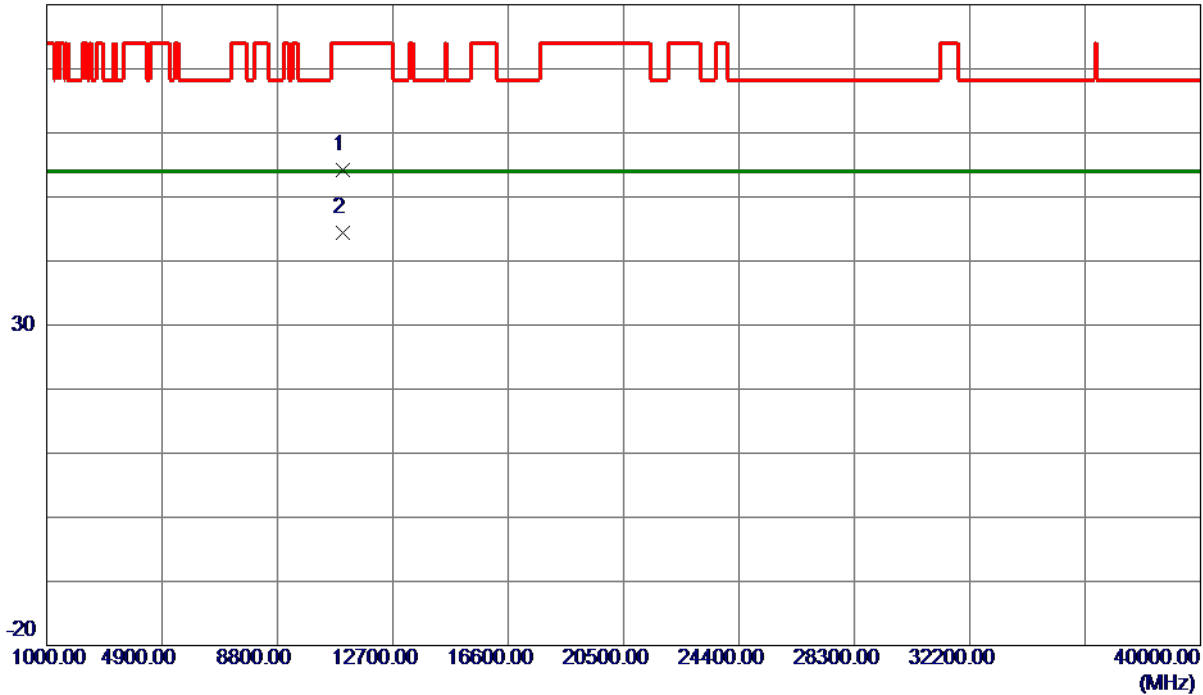
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5500 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10999.7200	38.12	15.99	54.11	74.00	-19.89	Peak	
2 *	11000.2500	28.43	15.99	44.42	54.00	-9.58	AVG	

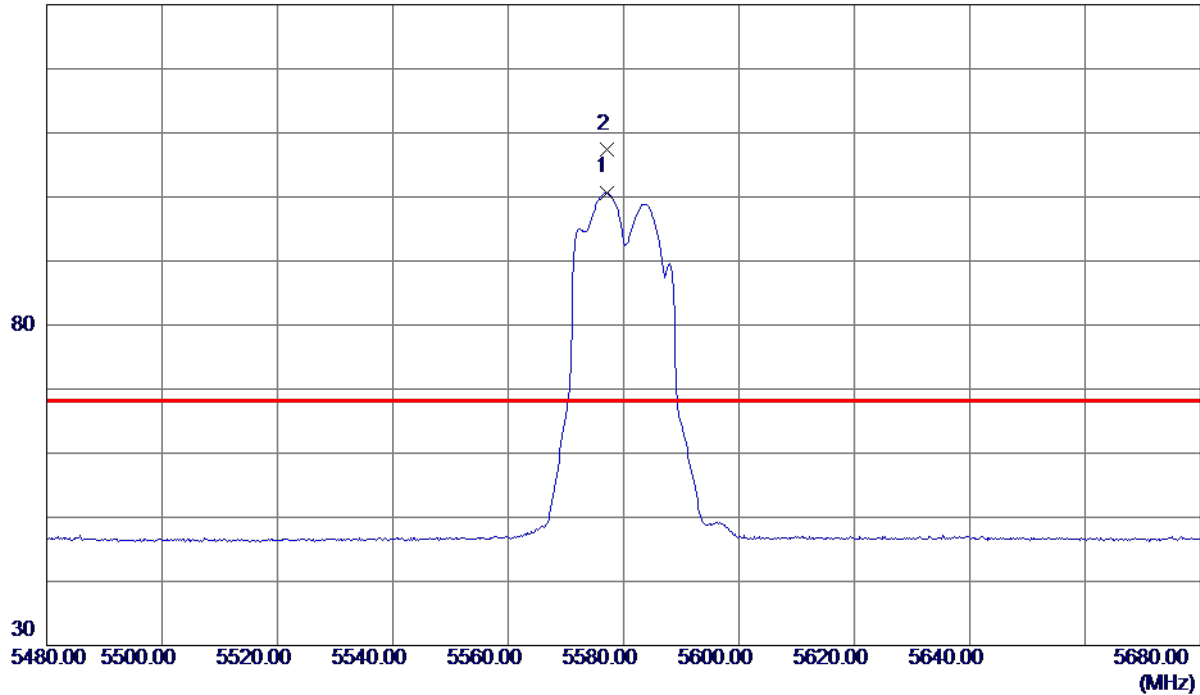
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5580 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	5577.0000	82.99	17.71	100.70	999.00	-898.30	AVG	No Limit
2 *	5577.2000	89.73	17.71	107.44	68.30	39.14	Peak	No Limit

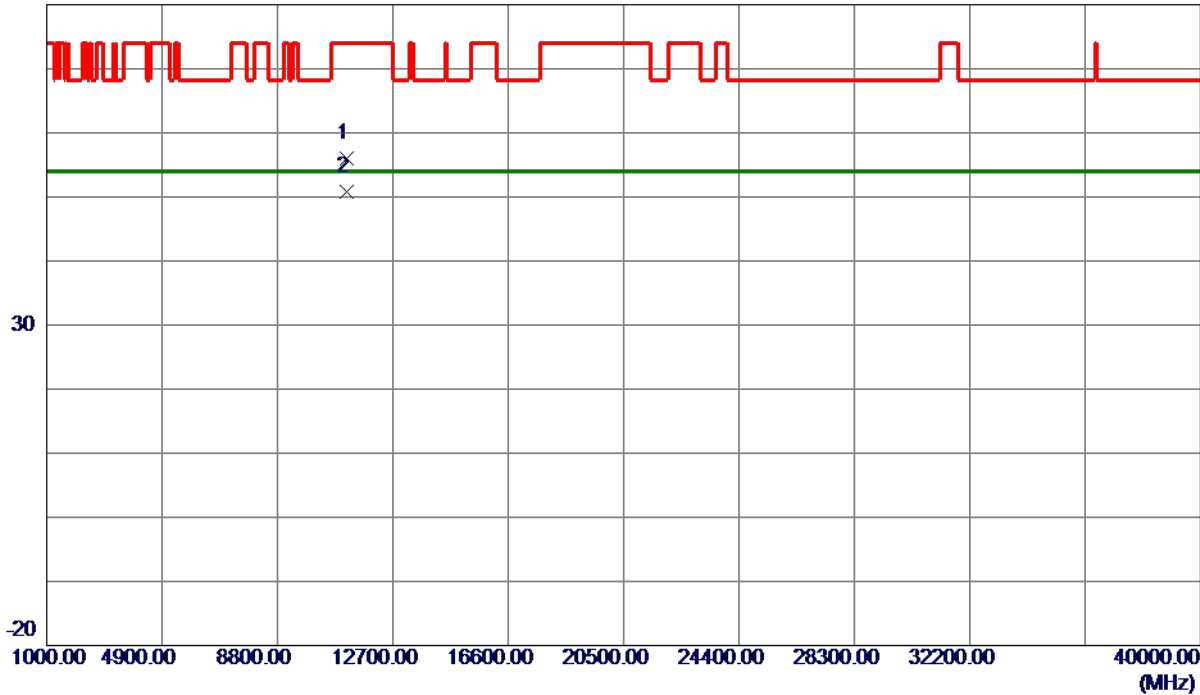
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5580 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11159.9060	39.55	16.37	55.92	74.00	-18.08	Peak	
2 *	11159.9160	34.47	16.37	50.84	54.00	-3.16	AVG	

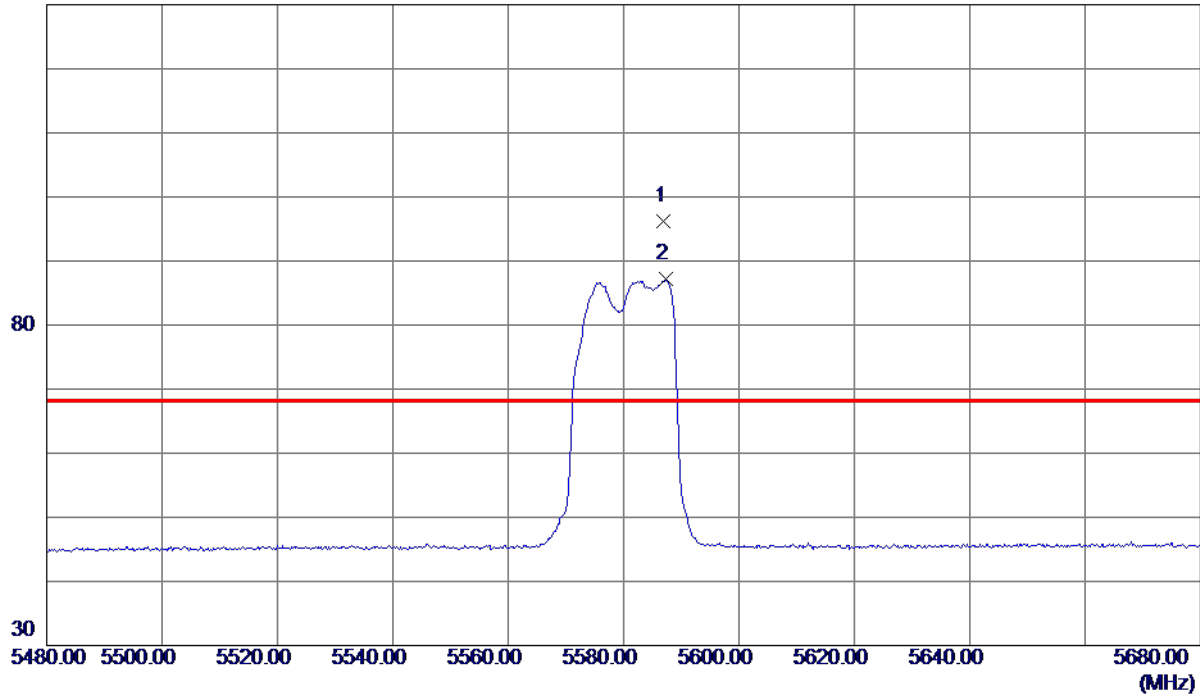
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5580 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 *	5587.0000	77.99	18.24	96.23	68.30	27.93	Peak	No Limit
2	5587.4000	69.02	18.24	87.26	999.00	-911.74	AVG	No Limit

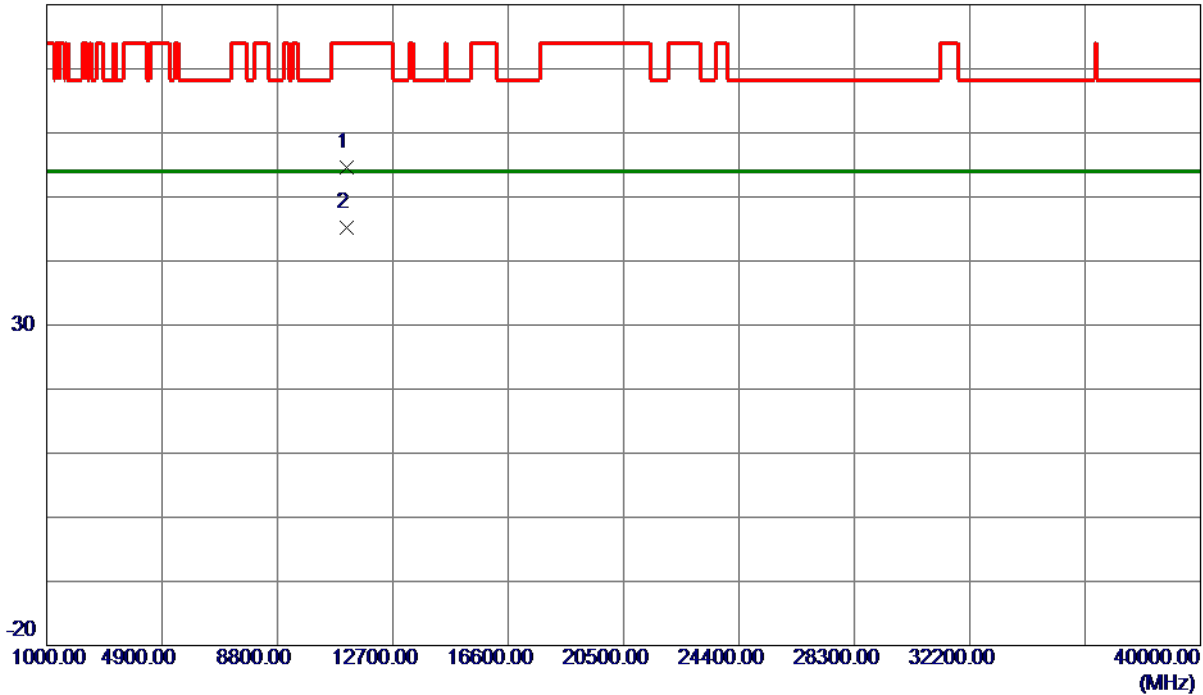
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5580 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11160.5380	38.24	16.37	54.61	74.00	-19.39	Peak	
2 *	11160.7619	28.89	16.37	45.26	54.00	-8.74	AVG	

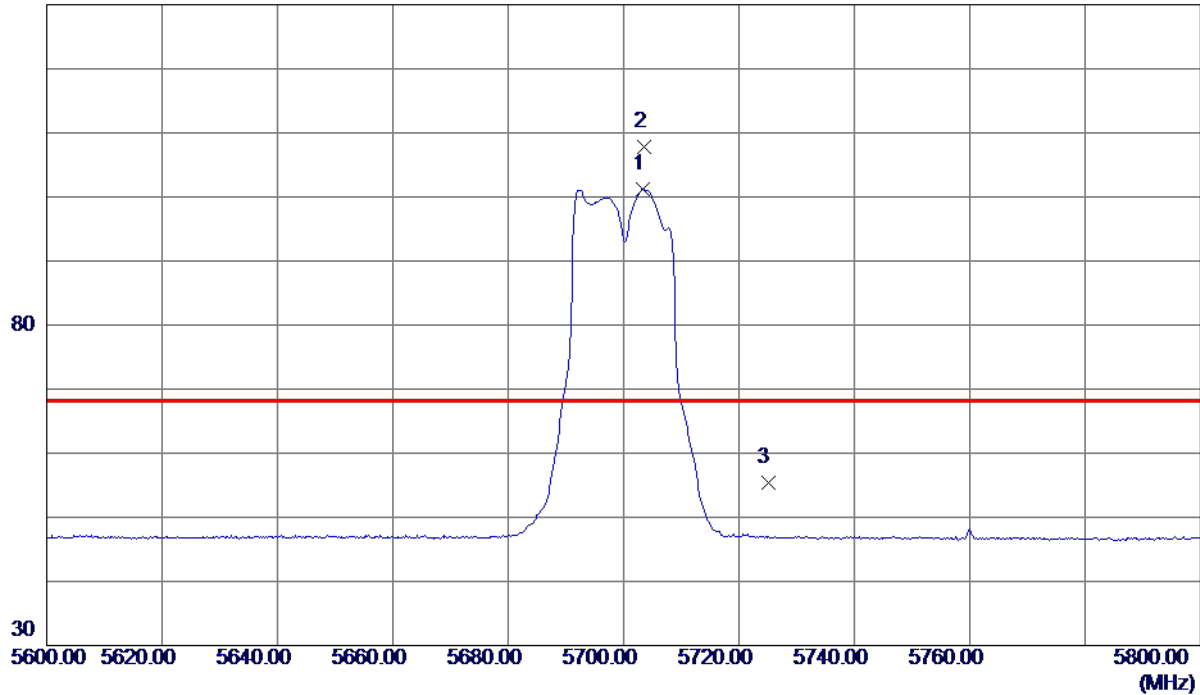
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5700 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	5703.4000	83.30	17.90	101.20	999.00	-897.80	AVG	No Limit
2 *	5703.6000	89.97	17.90	107.87	68.30	39.57	Peak	No Limit
3	5725.0000	37.40	17.94	55.34	68.30	-12.96	Peak	

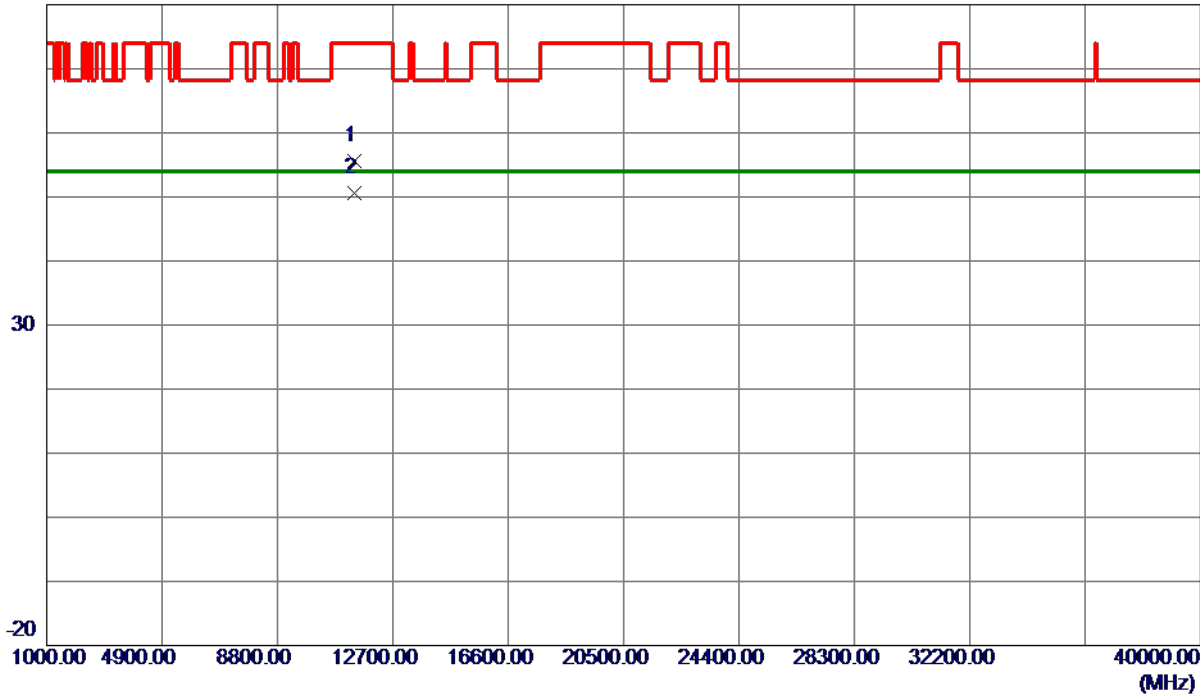
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5700 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11399.8540	38.66	16.94	55.60	74.00	-18.40	Peak	
2 *	11399.9240	33.68	16.94	50.62	54.00	-3.38	AVG	

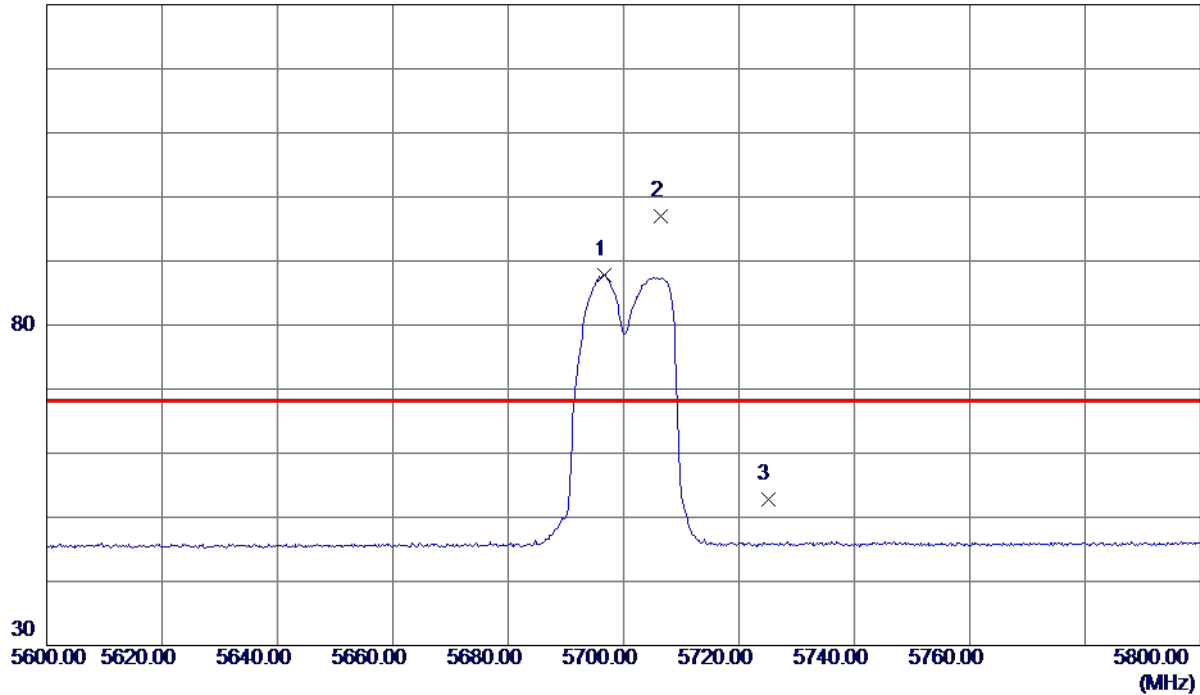
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5700 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	5696.6000	69.17	18.59	87.76	999.00	-911.24	AVG	No Limit
2 *	5706.4000	78.33	18.63	96.96	68.30	28.66	Peak	No Limit
3	5725.0000	34.16	18.69	52.85	68.30	-15.45	Peak	

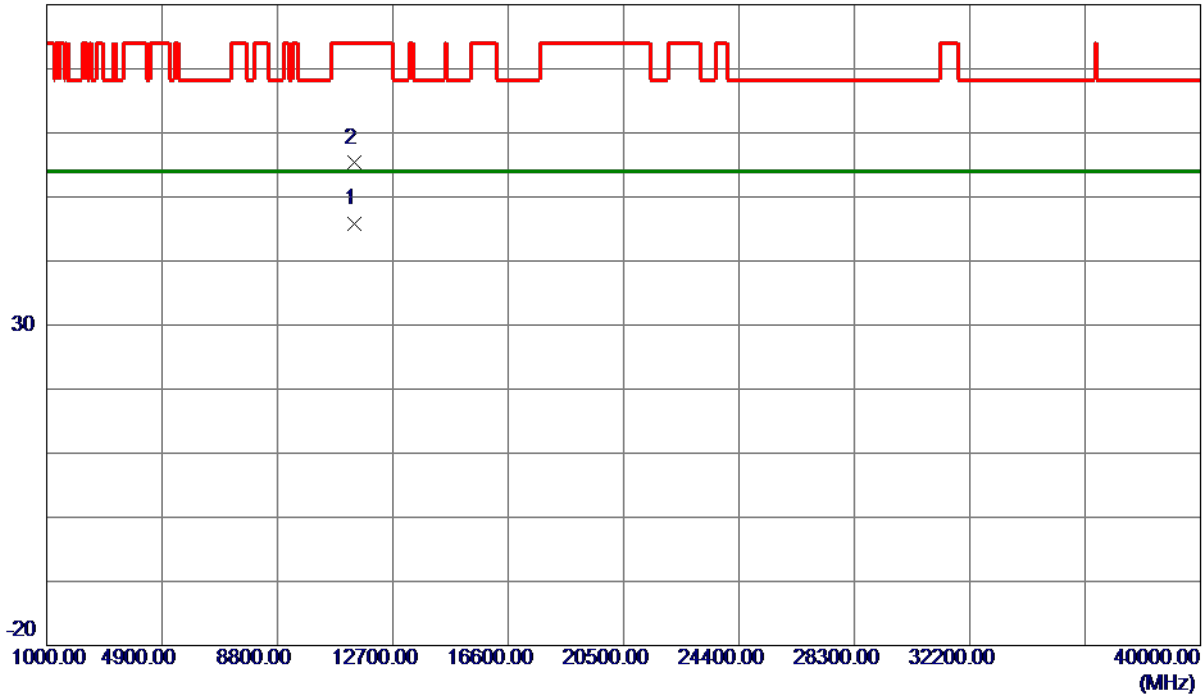
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX A Mode 5700 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11399.0439	28.89	16.94	45.83	54.00	-8.17	AVG	
2	11400.1580	38.36	16.94	55.30	74.00	-18.70	Peak	

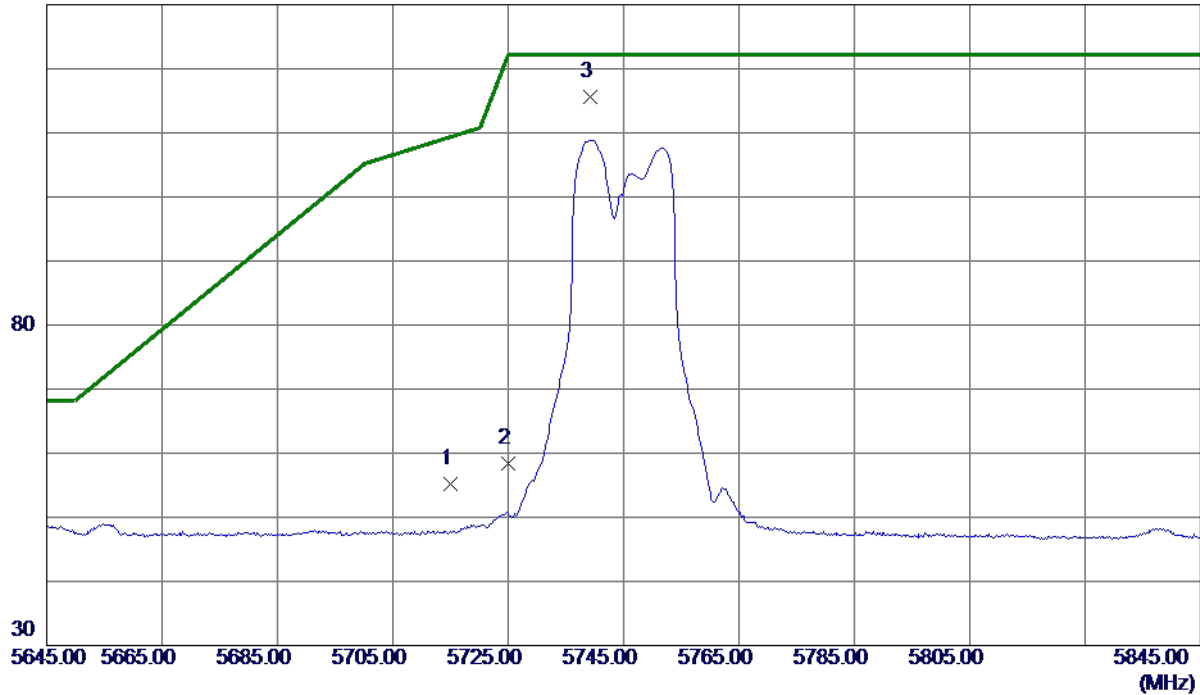
REMARKS:

- (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

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	37.19	17.92	55.11	109.40	-54.29	Peak	
2	5725.0000	40.42	17.94	58.36	122.20	-63.84	Peak	
3 *	5739.2000	97.56	17.96	115.52	122.20	-6.68	Peak	No Limit

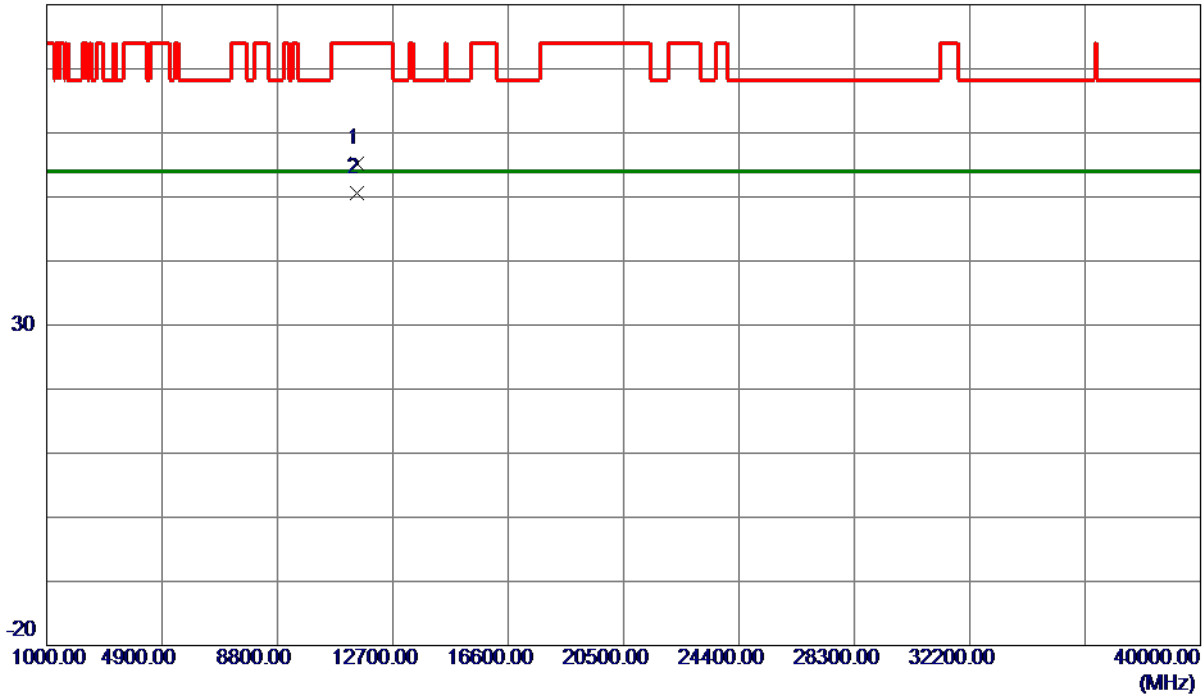
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11489.8860	37.99	17.16	55.15	74.00	-18.85	Peak	
2 *	11489.9200	33.37	17.16	50.53	54.00	-3.47	AVG	

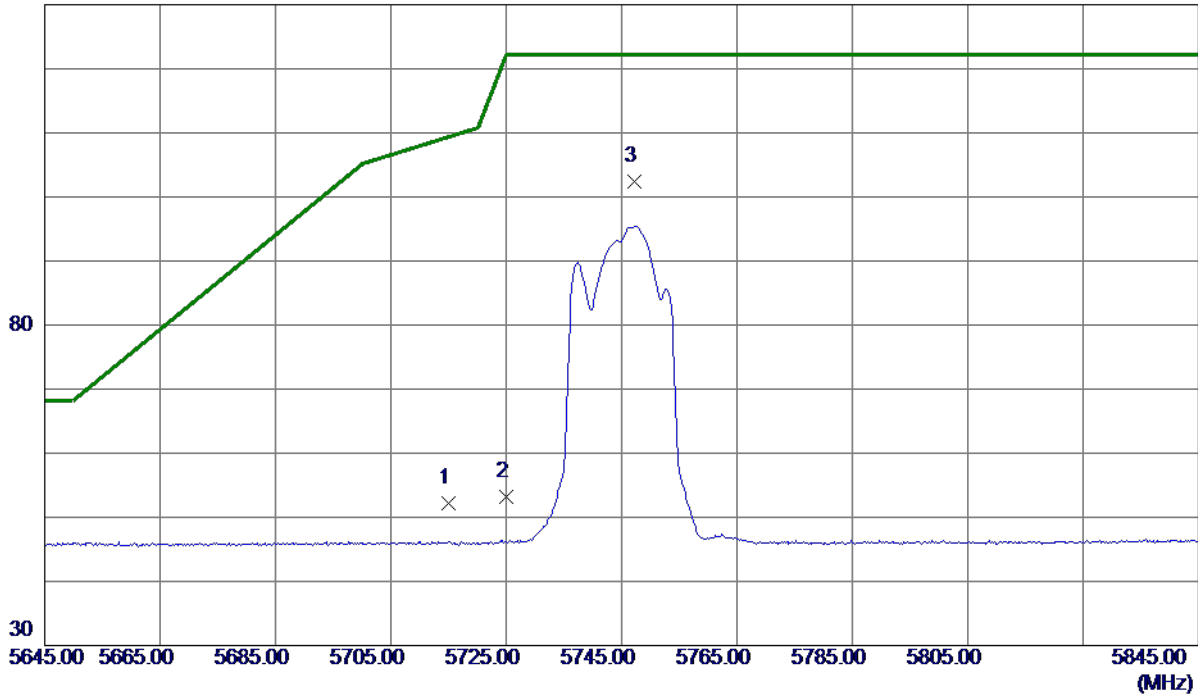
REMARKS:

- (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	33.61	18.65	52.26	109.40	-57.14	Peak	
2	5725.0000	34.54	18.69	53.23	122.20	-68.97	Peak	
3 *	5747.2000	83.68	18.76	102.44	122.20	-19.76	Peak	No Limit

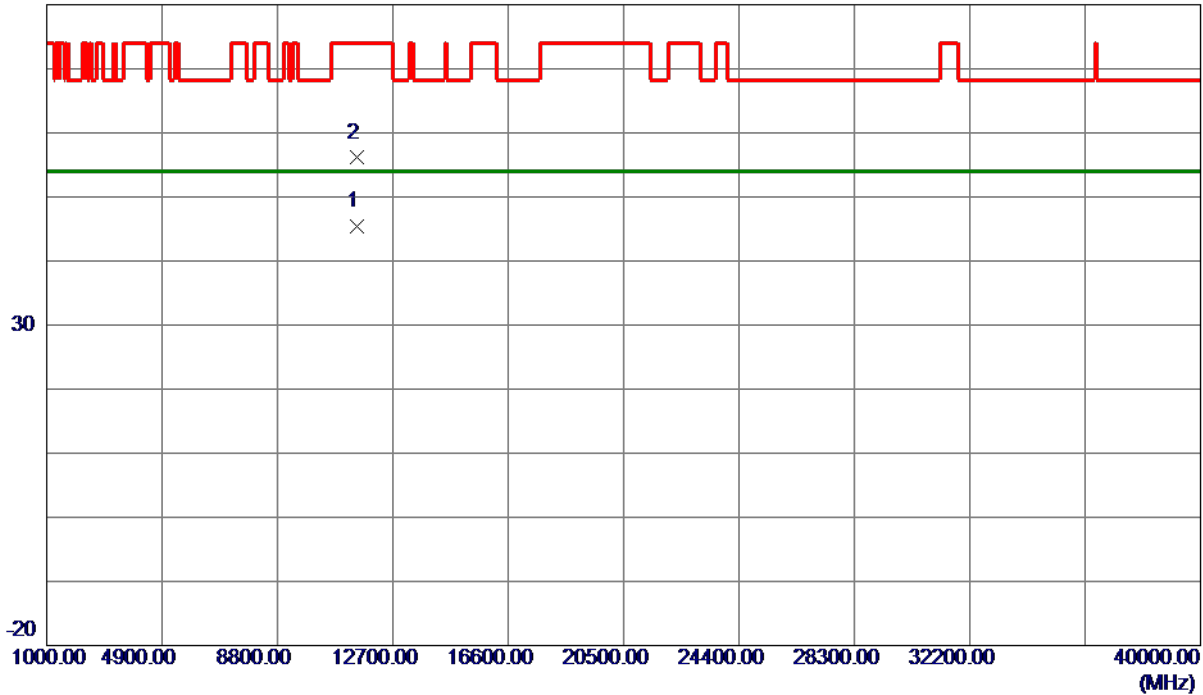
REMARKS:

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

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

Horizontal

80 dBuV/m



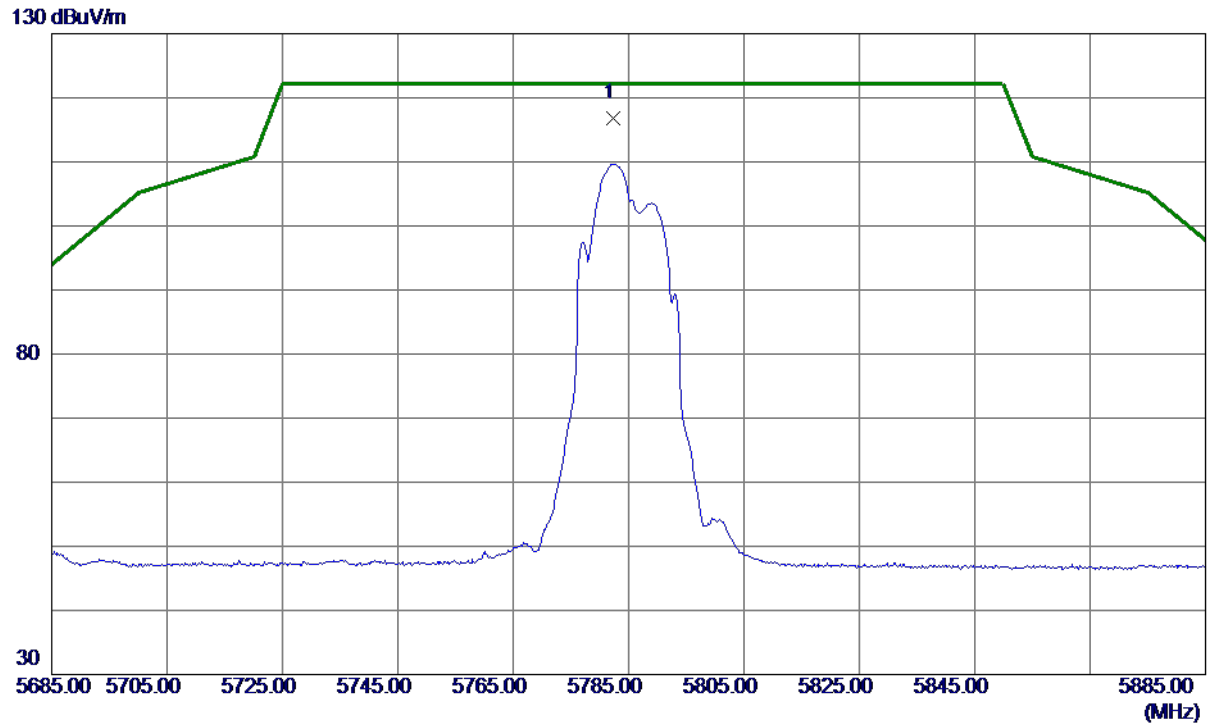
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11489.8259	28.21	17.16	45.37	54.00	-8.63	AVG	
2	11490.0540	38.94	17.16	56.10	74.00	-17.90	Peak	

REMARKS:

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

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

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5782.4000	98.80	18.03	116.83	122.20	-5.37	Peak	No Limit

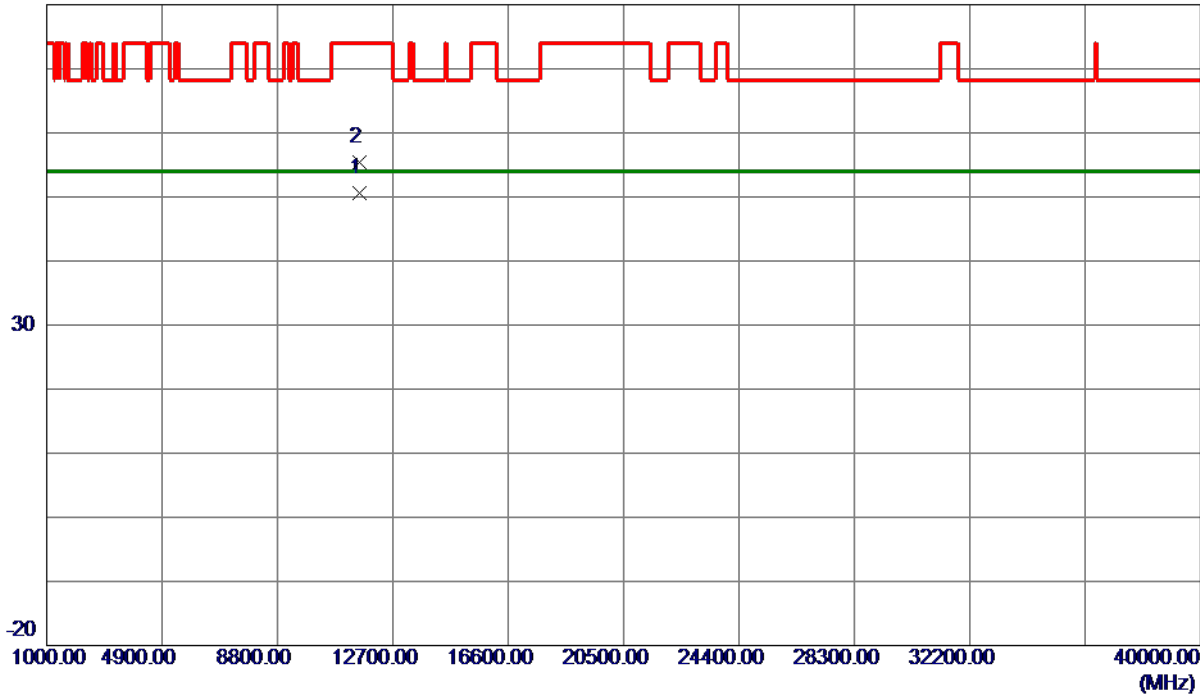
REMARKS:

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

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

Vertical

80 dBuV/m



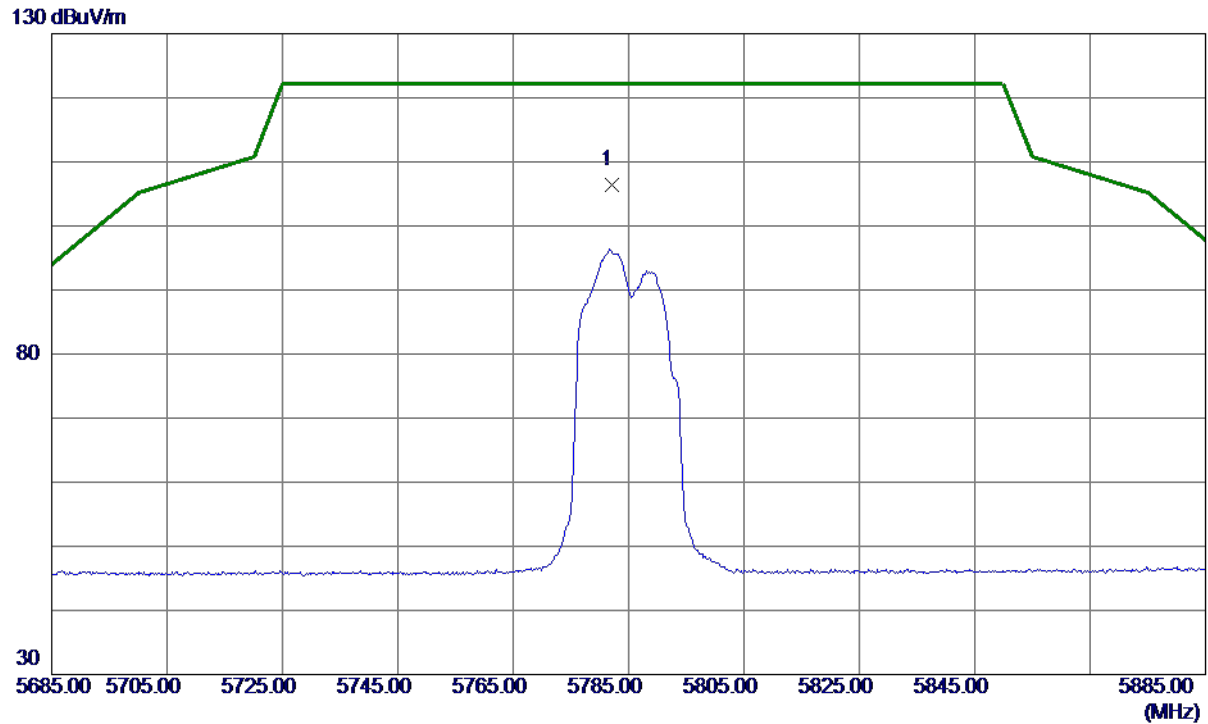
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11569.9220	33.48	17.20	50.68	54.00	-3.32	AVG	
2	11569.9460	38.13	17.20	55.33	74.00	-18.67	Peak	

REMARKS:

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5782.0000	87.51	18.87	106.38	122.20	-15.82	Peak	No Limit

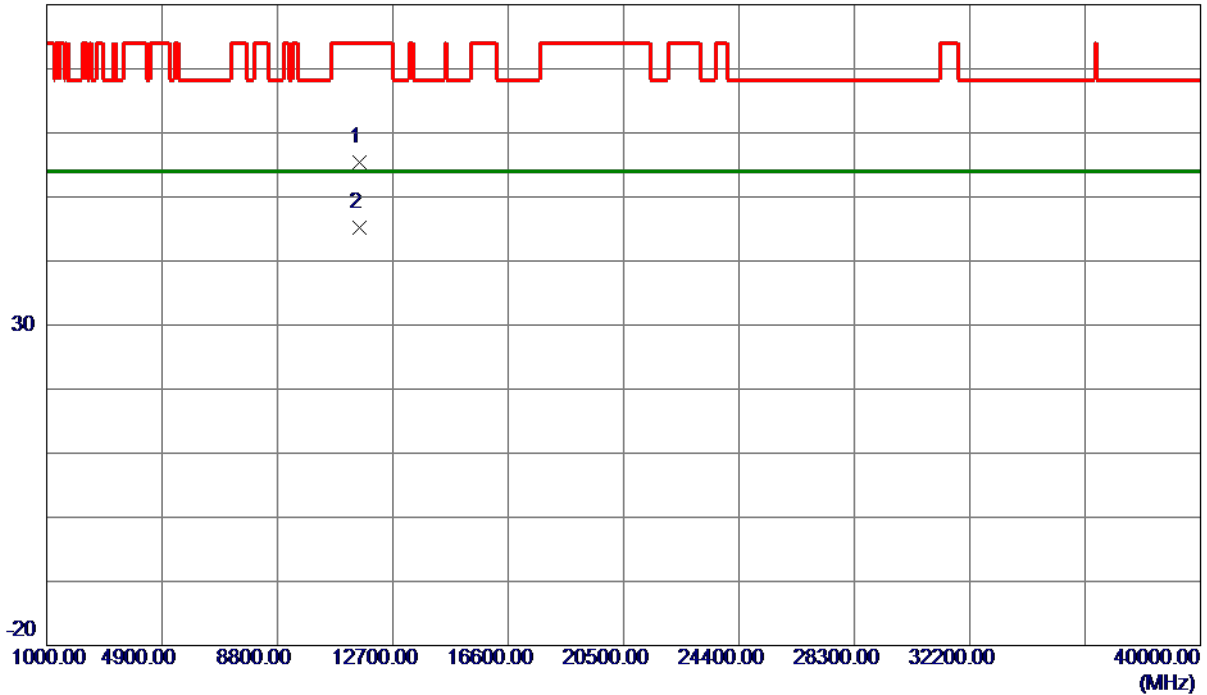
REMARKS:

- (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

Horizontal

80 dBuV/m



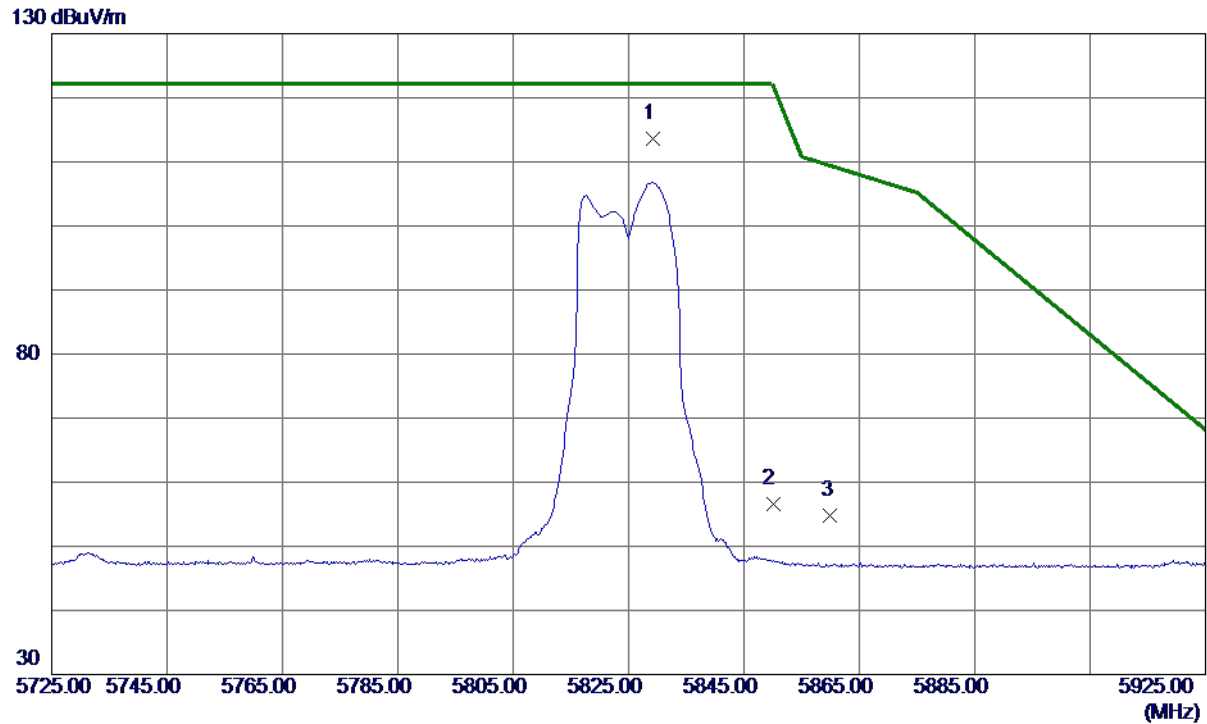
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11570.4280	38.28	17.20	55.48	74.00	-18.52	Peak	
2 *	11570.8259	27.94	17.20	45.14	54.00	-8.86	AVG	

REMARKS:

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

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

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5829.2000	95.58	18.10	113.68	122.20	-8.52	Peak	No Limit
2	5850.0000	38.56	18.13	56.69	122.20	-65.51	Peak	
3	5860.0000	36.69	18.15	54.84	109.40	-54.56	Peak	

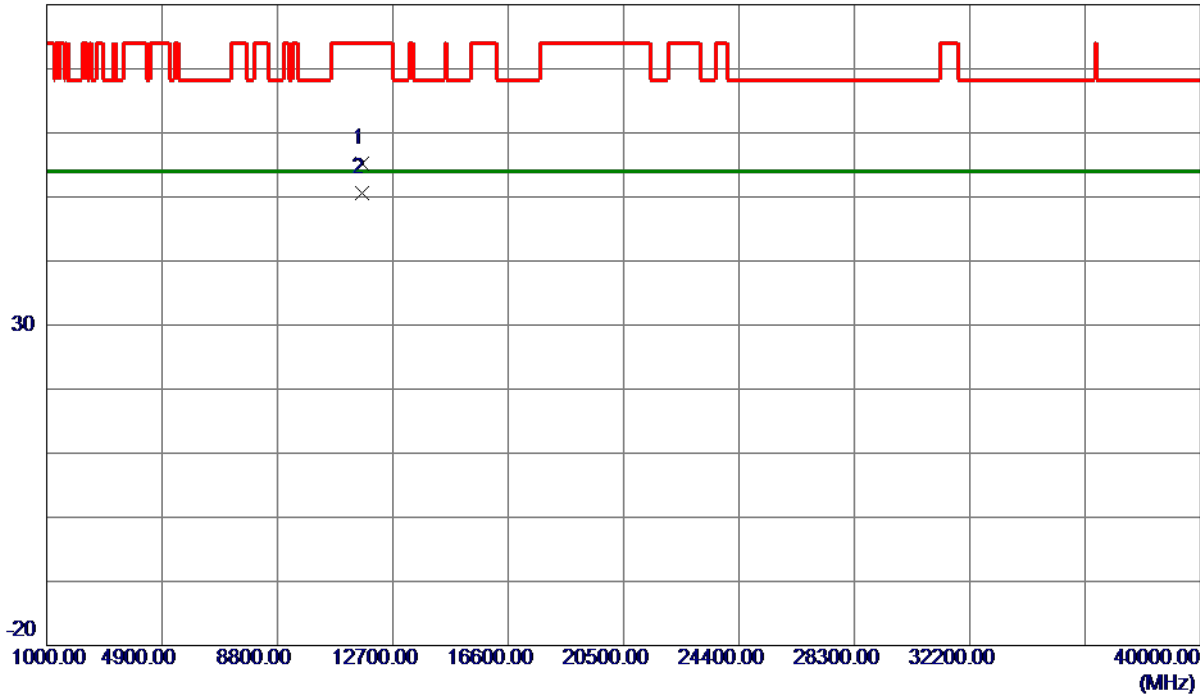
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11649.8339	37.96	17.23	55.19	74.00	-18.81	Peak	
2 *	11649.8920	33.45	17.23	50.68	54.00	-3.32	AVG	

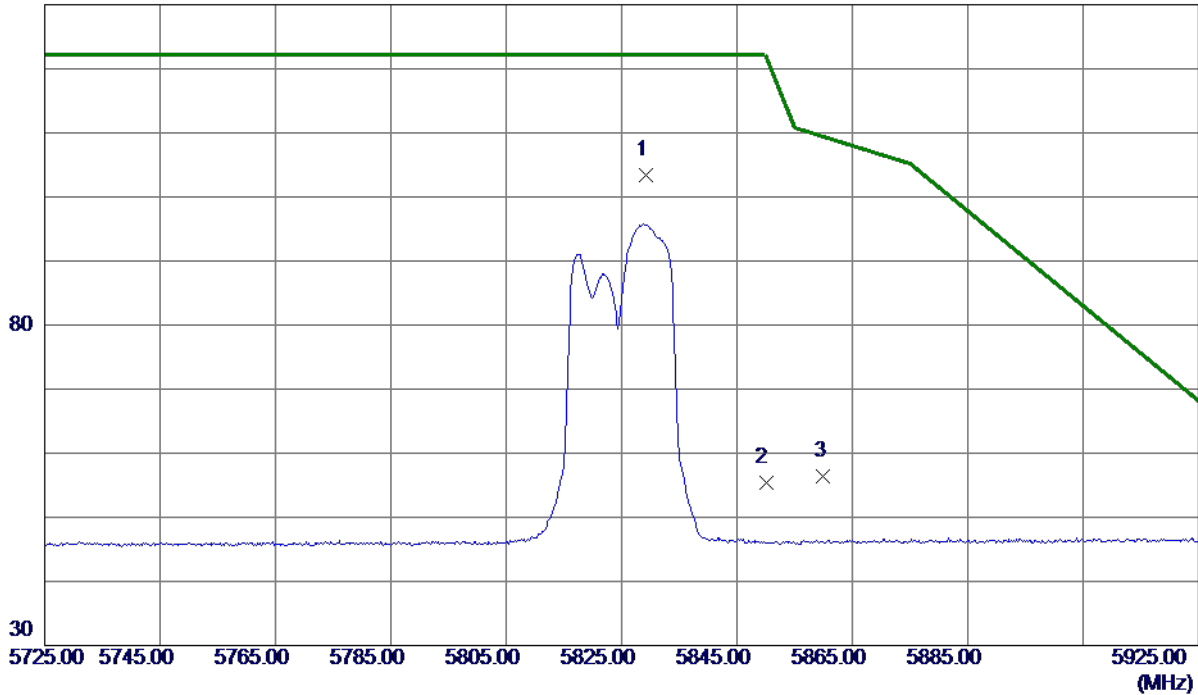
REMARKS:

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

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

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5829.2000	84.44	19.02	103.46	122.20	-18.74	Peak	No Limit
2	5850.0000	36.27	19.09	55.36	122.20	-66.84	Peak	
3	5860.0000	37.21	19.13	56.34	109.40	-53.06	Peak	

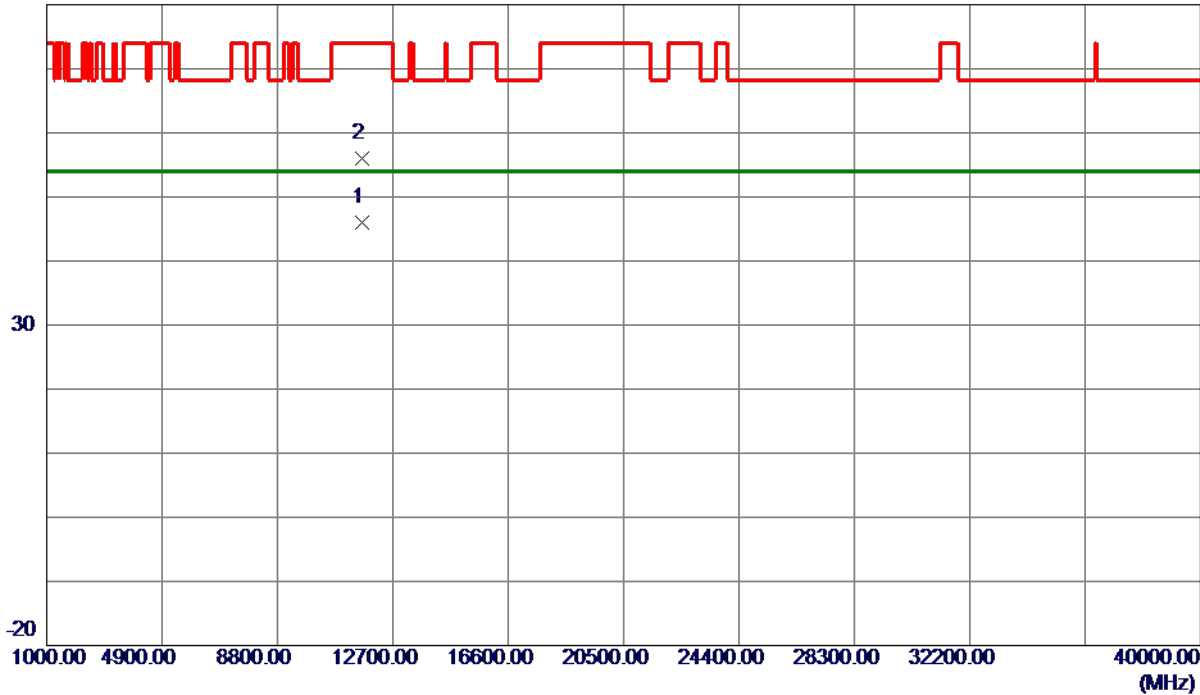
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11649.2619	28.78	17.23	46.01	54.00	-7.99	AVG	
2	11649.2939	38.79	17.23	56.02	74.00	-17.98	Peak	

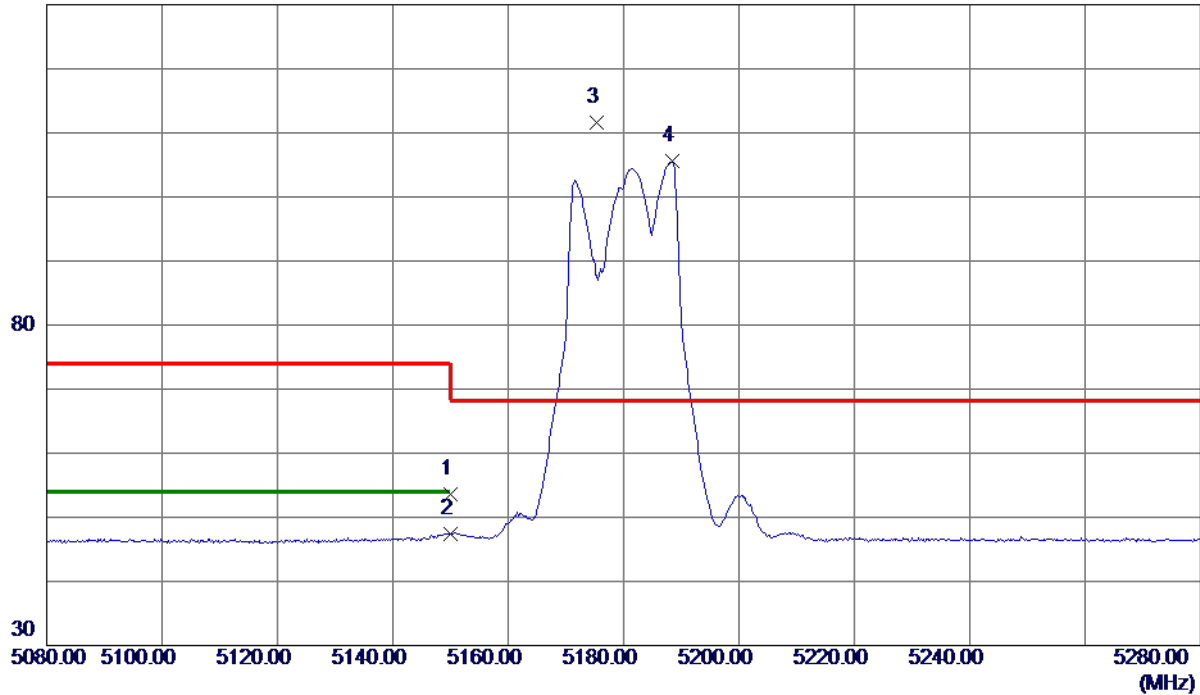
REMARKS:

- (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 5180 MHz

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	36.47	17.18	53.65	74.00	-20.35	Peak	
2	5150.0000	30.30	17.18	47.48	54.00	-6.52	AVG	
3 *	5175.4000	94.30	17.21	111.51	68.30	43.21	Peak	No Limit
4	5188.4000	88.29	17.22	105.51	999.00	-893.49	AVG	No Limit

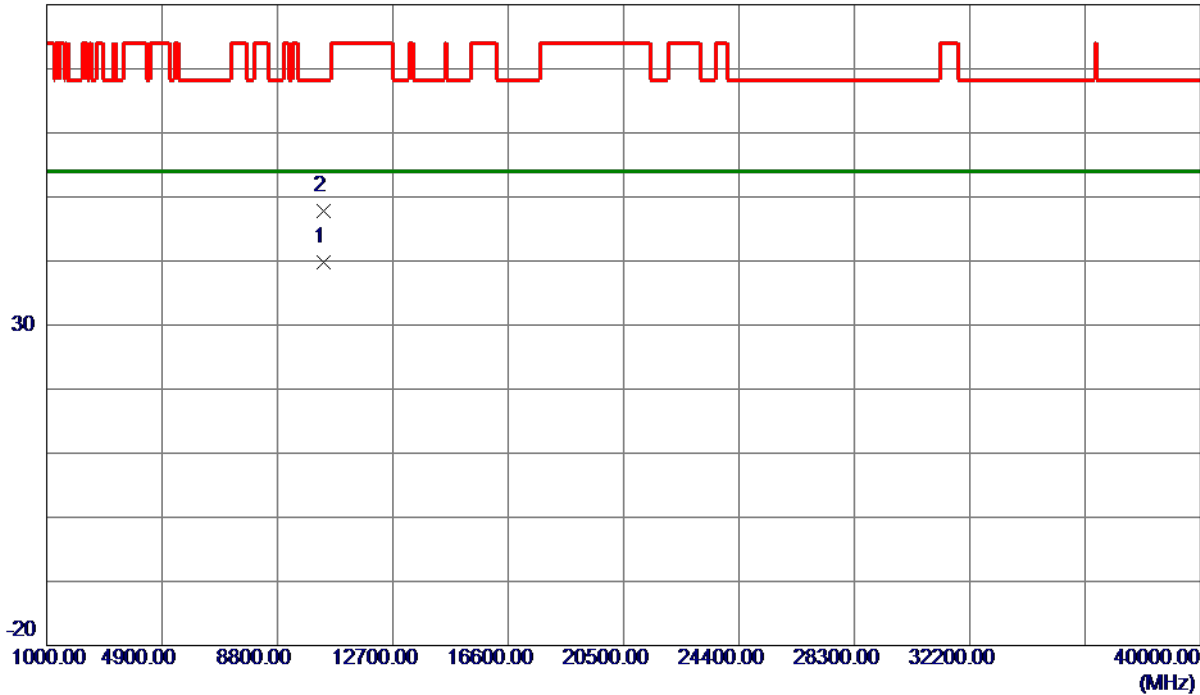
REMARKS:

- (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

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.1080	25.25	14.62	39.87	54.00	-14.13	AVG	
2	10360.5400	33.09	14.62	47.71	68.30	-20.59	Peak	

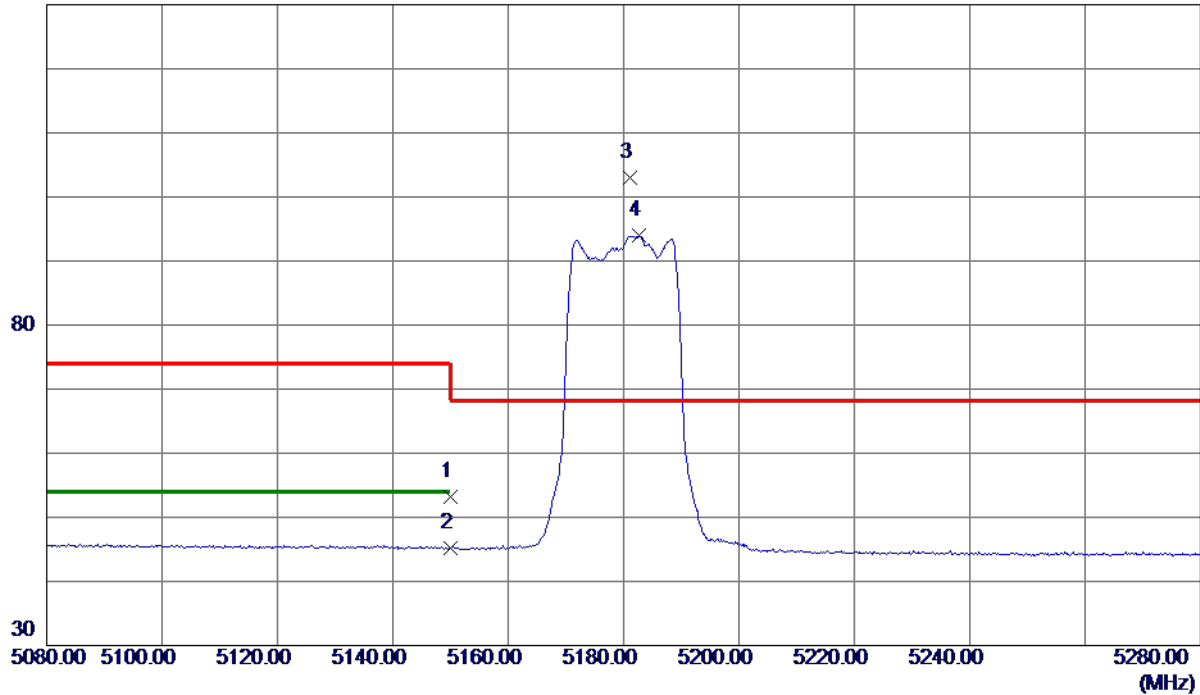
REMARKS:

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

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

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	36.01	17.26	53.27	74.00	-20.73	Peak	
2	5150.0000	27.86	17.26	45.12	54.00	-8.88	AVG	
3 *	5181.2000	85.59	17.32	102.91	68.30	34.61	Peak	No Limit
4	5182.6000	76.63	17.32	93.95	999.00	-905.05	AVG	No Limit

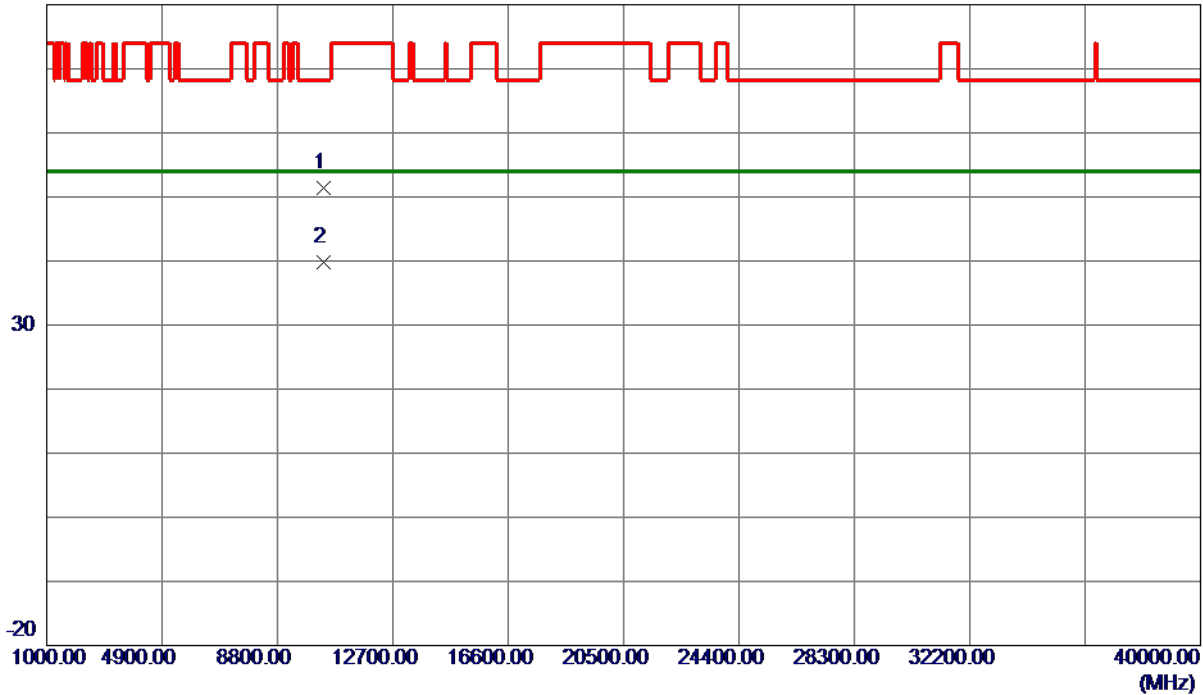
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10359.9000	36.78	14.62	51.40	68.30	-16.90	Peak	
2 *	10359.9109	25.16	14.62	39.78	54.00	-14.22	AVG	

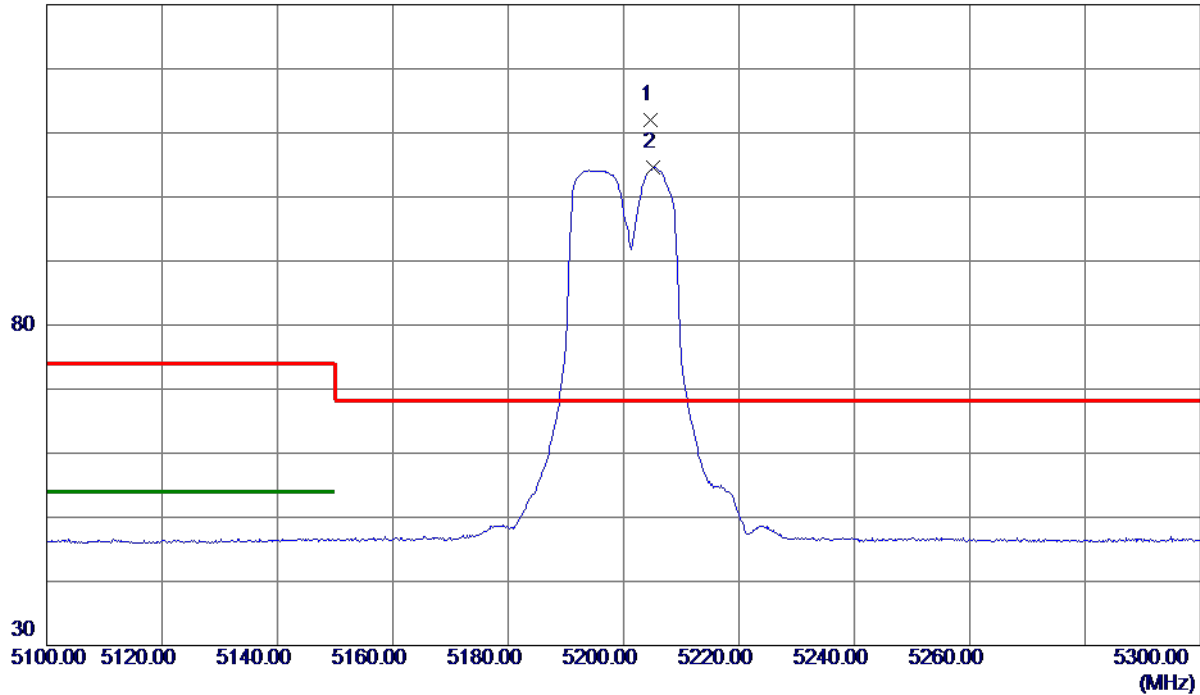
REMARKS:

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

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

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5204.6000	94.67	17.24	111.91	68.30	43.61	Peak	No Limit
2	5205.2000	87.42	17.24	104.66	999.00	-894.34	AVG	No Limit

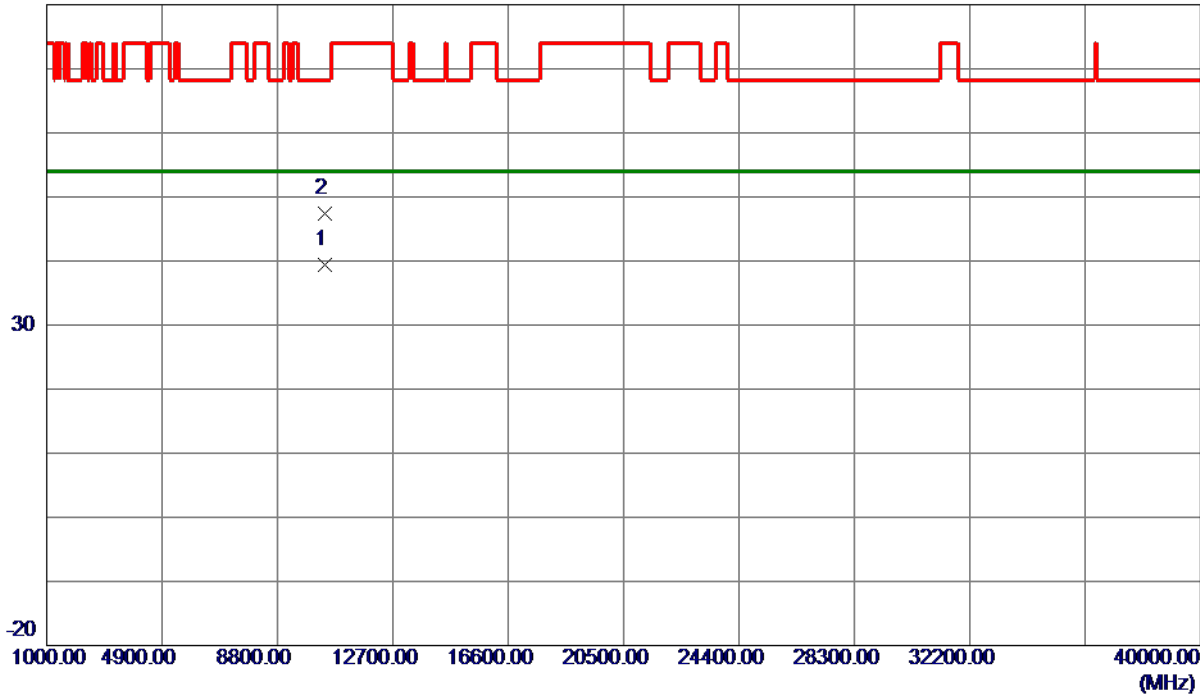
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.0960	24.78	14.69	39.47	54.00	-14.53	AVG	
2	10400.2260	32.62	14.69	47.31	68.30	-20.99	Peak	

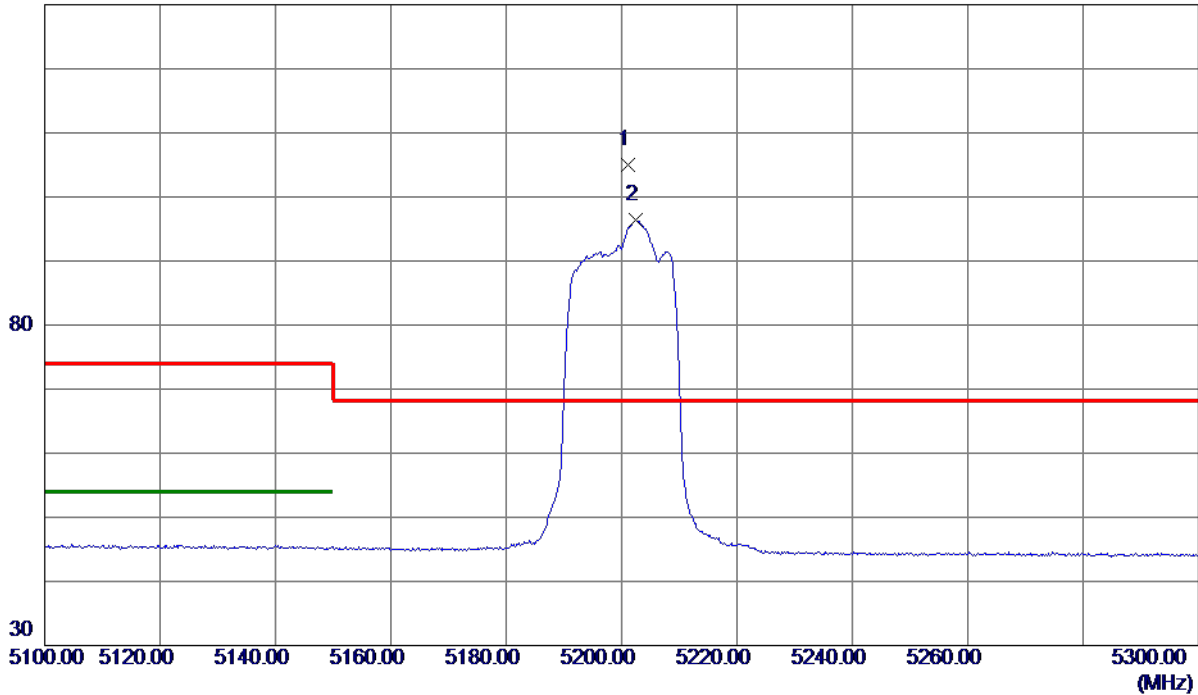
REMARKS:

- (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 5200 MHz

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5201.2000	87.60	17.36	104.96	68.30	36.66	Peak	No Limit
2	5202.4000	78.95	17.36	96.31	999.00	-902.69	AVG	No Limit

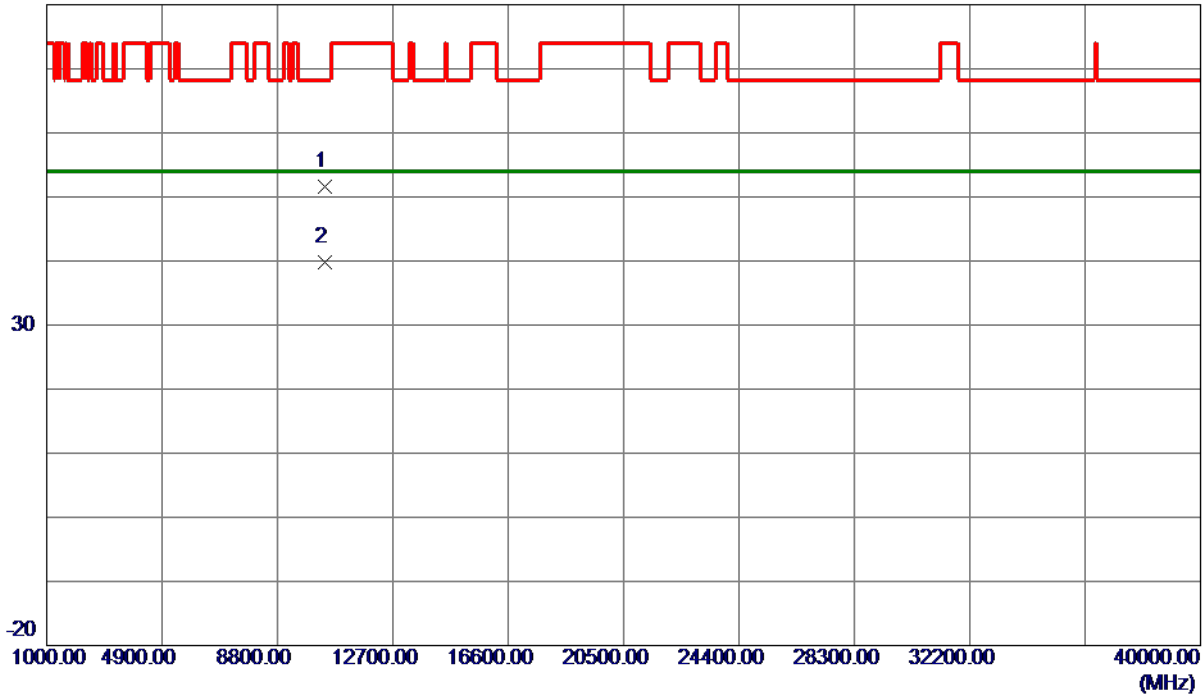
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10400.1750	37.00	14.69	51.69	68.30	-16.61	Peak	
2 *	10400.2140	25.11	14.69	39.80	54.00	-14.20	AVG	

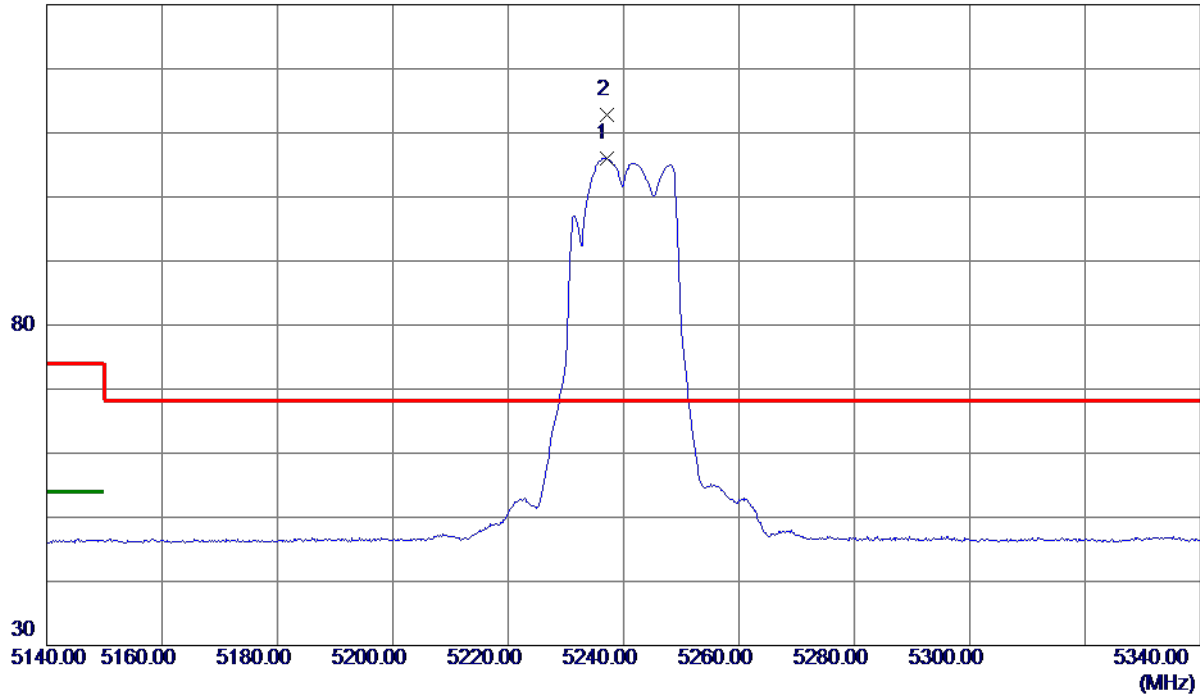
REMARKS:

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

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

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5237.0000	88.82	17.28	106.10	999.00	-892.90	AVG	No Limit
2 *	5237.2000	95.58	17.28	112.86	68.30	44.56	Peak	No Limit

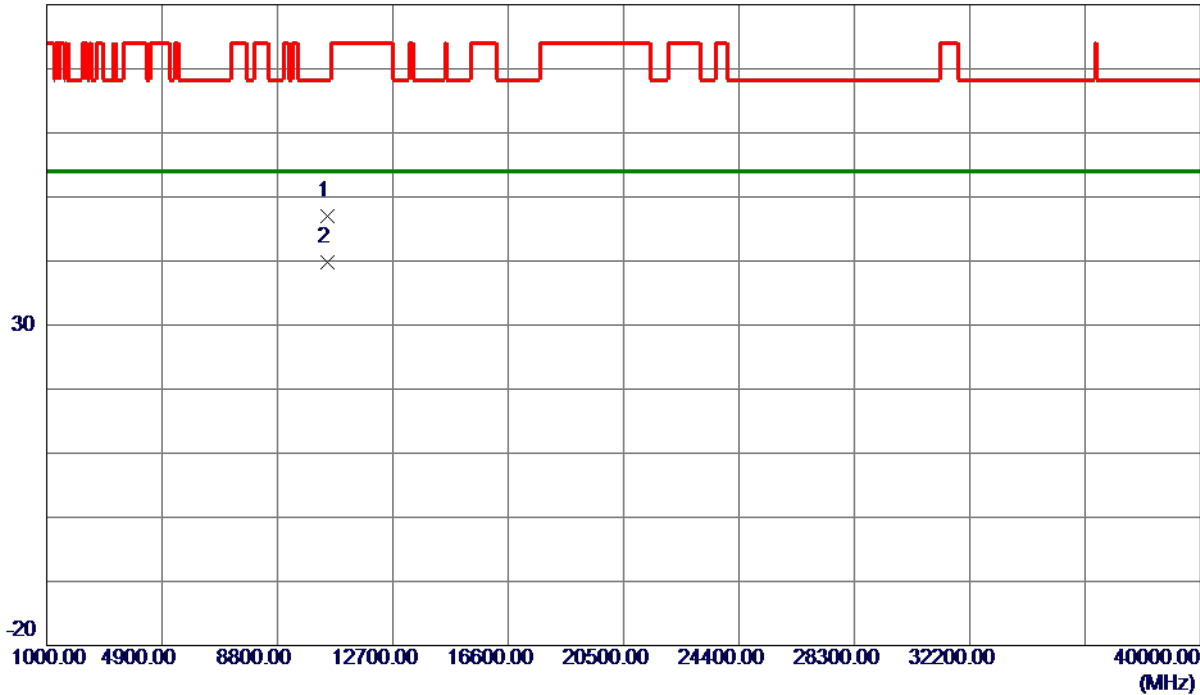
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10480.0500	32.19	14.83	47.02	68.30	-21.28	Peak	
2 *	10480.1470	24.92	14.83	39.75	54.00	-14.25	AVG	

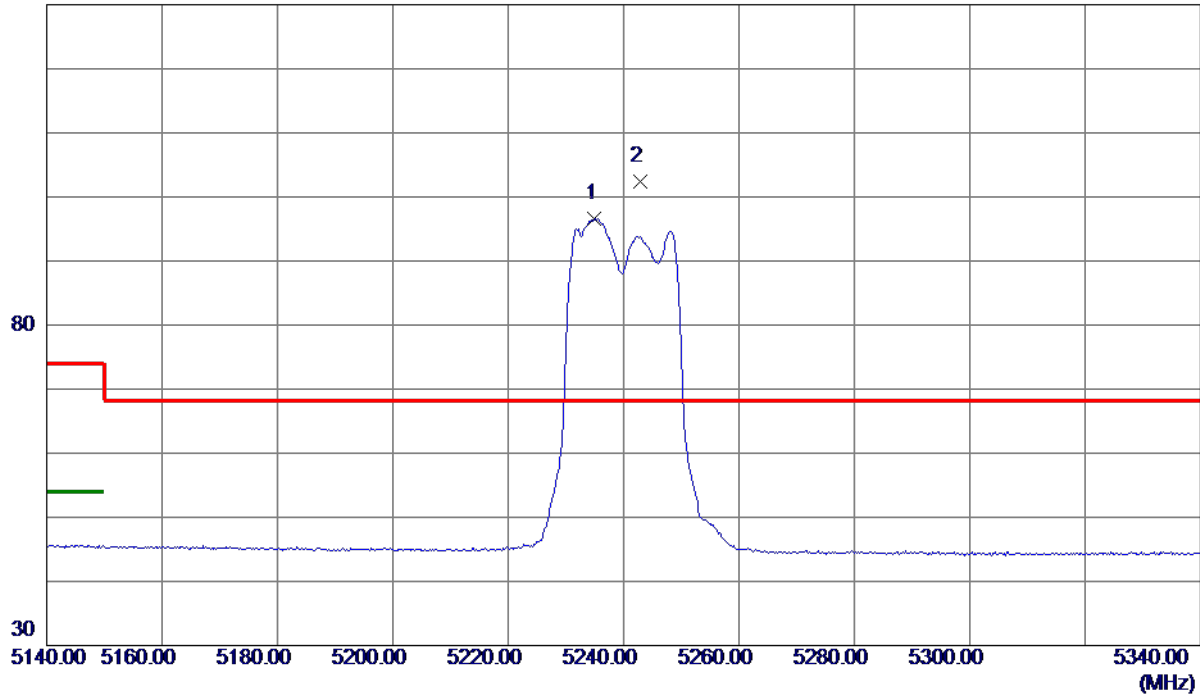
REMARKS:

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

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

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5235.0000	79.10	17.43	96.53	999.00	-902.47	AVG	No Limit
2 *	5242.8000	84.97	17.44	102.41	68.30	34.11	Peak	No Limit

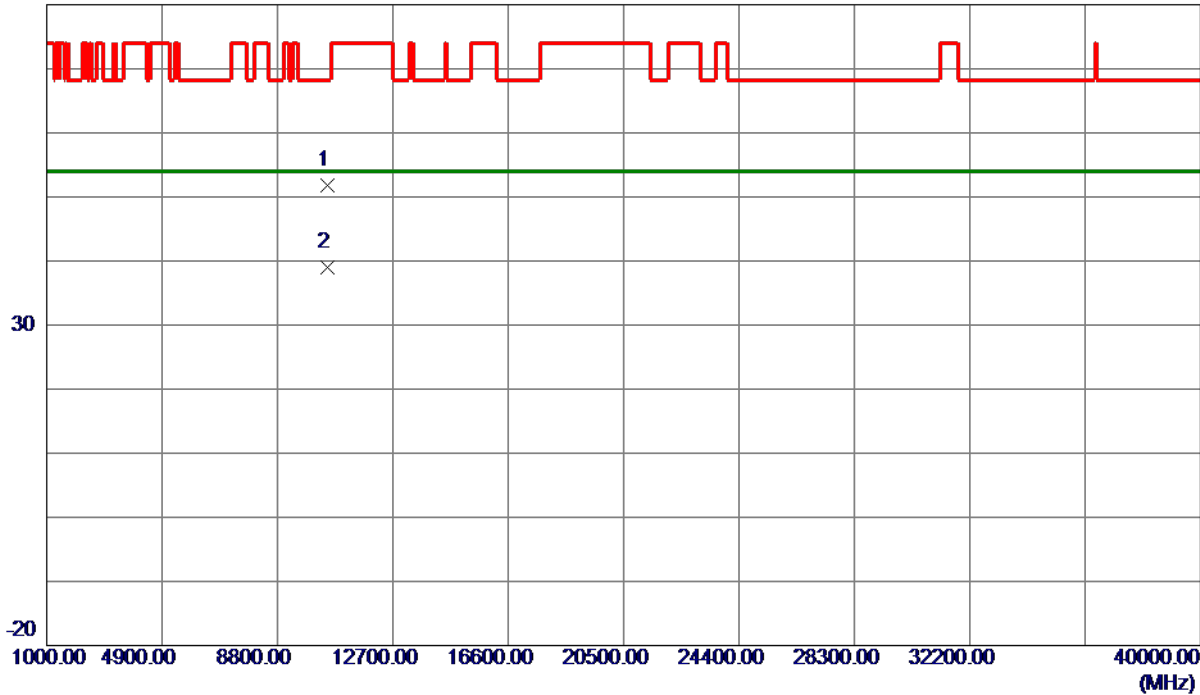
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10479.7450	37.03	14.83	51.86	68.30	-16.44	Peak	
2 *	10480.1560	24.12	14.83	38.95	54.00	-15.05	AVG	

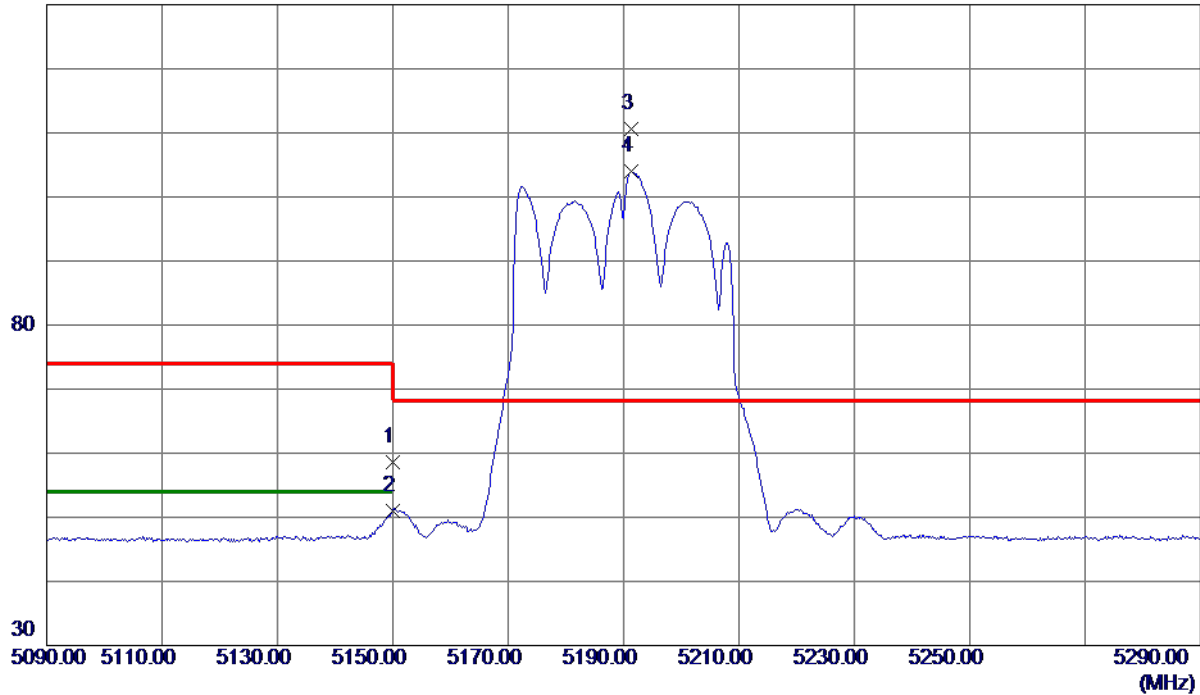
REMARKS:

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

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

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	41.37	17.18	58.55	74.00	-15.45	Peak	
2	5150.0000	33.82	17.18	51.00	54.00	-3.00	AVG	
3 *	5191.4000	93.46	17.22	110.68	68.30	42.38	Peak	No Limit
4	5191.4000	86.72	17.22	103.94	999.00	-895.06	AVG	No Limit

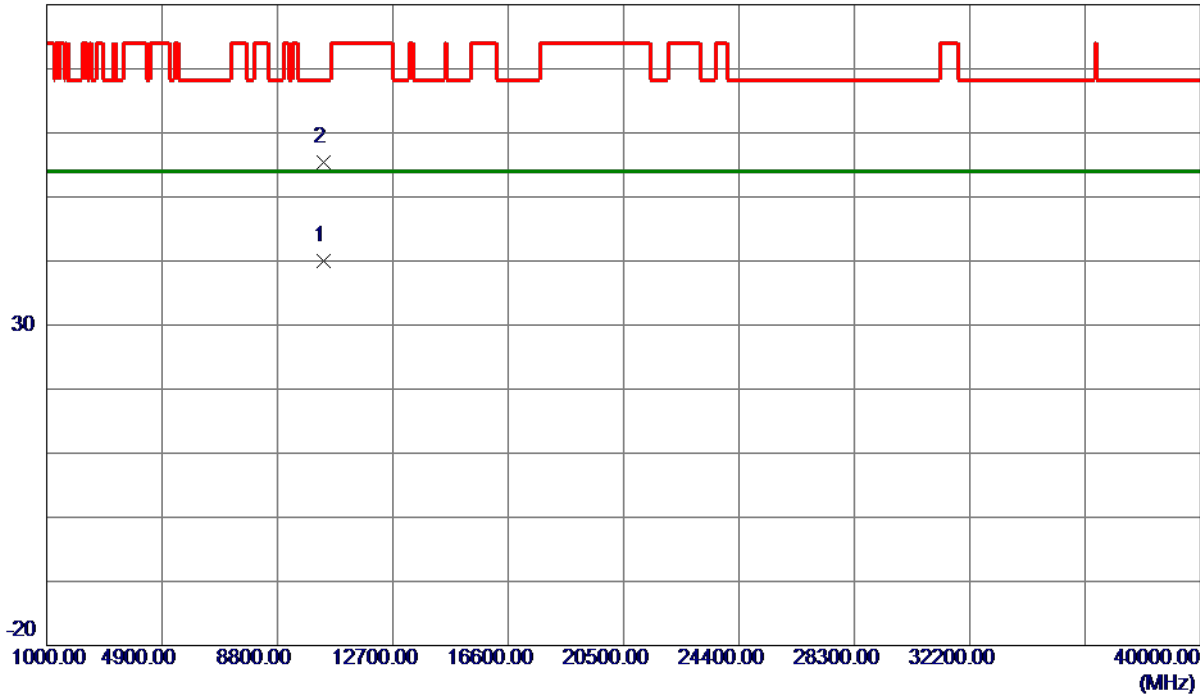
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10380.0540	25.27	14.66	39.93	54.00	-14.07	AVG	
2 *	10380.1060	40.65	14.66	55.31	68.30	-12.99	Peak	

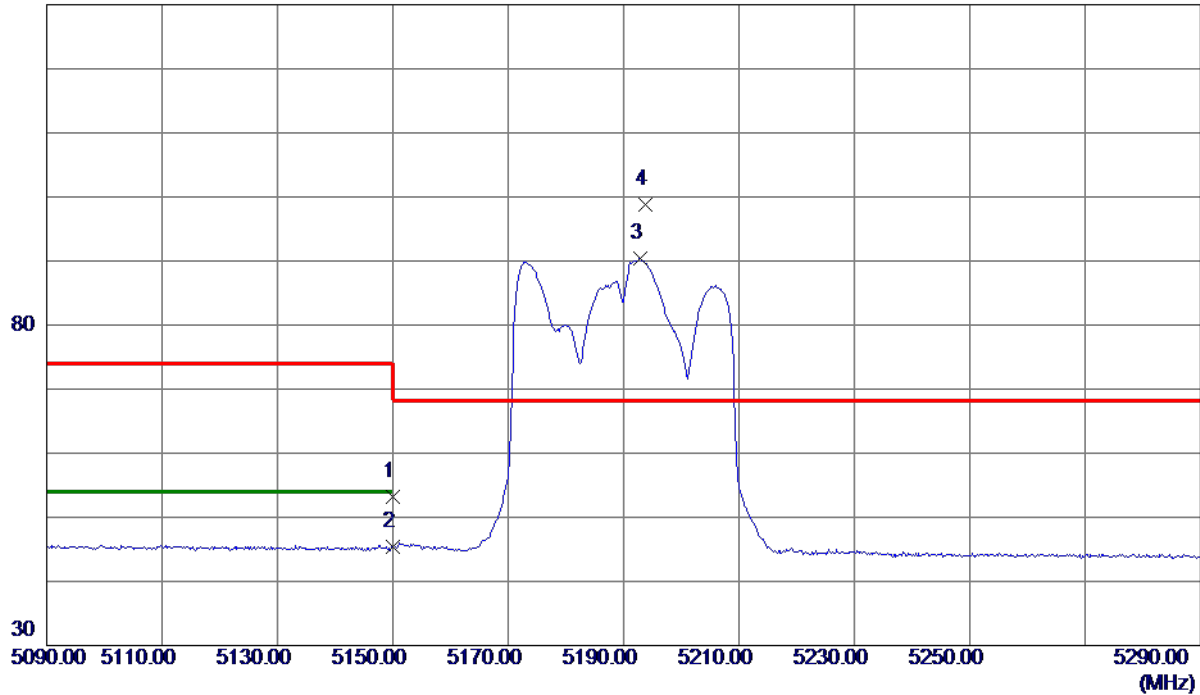
REMARKS:

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

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

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	35.92	17.26	53.18	74.00	-20.82	Peak	
2	5150.0000	28.06	17.26	45.32	54.00	-8.68	AVG	
3	5192.8000	73.06	17.34	90.40	999.00	-908.60	AVG	No Limit
4 *	5193.8000	81.36	17.35	98.71	68.30	30.41	Peak	No Limit

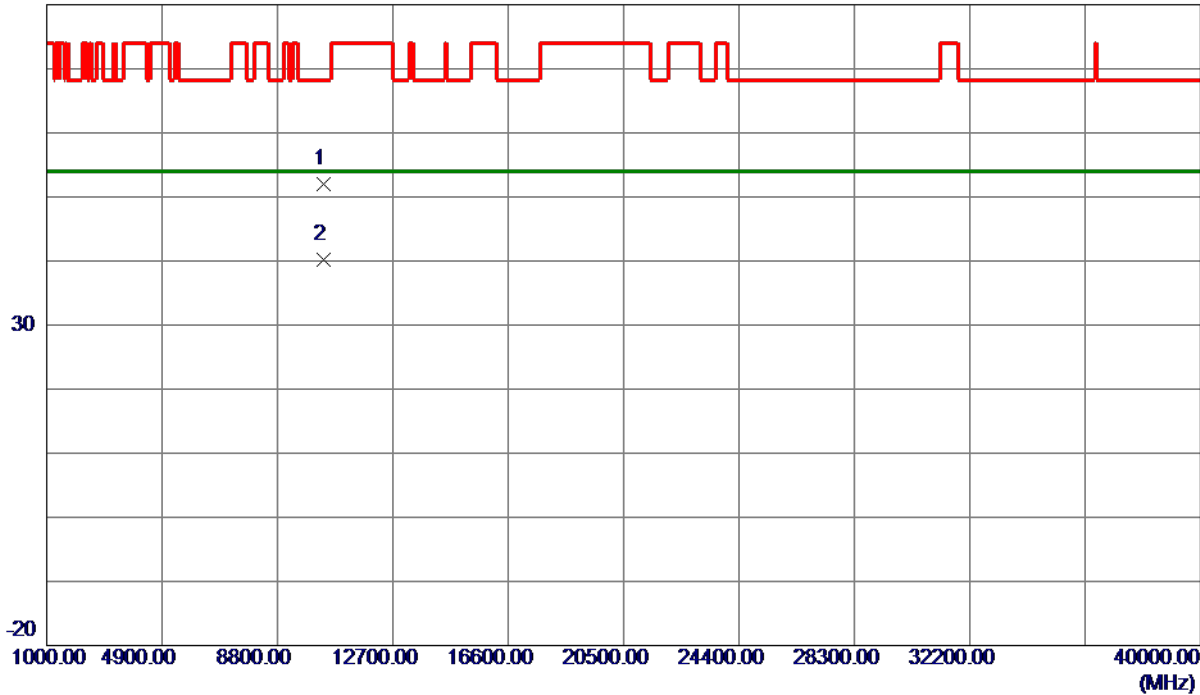
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10379.8750	37.26	14.66	51.92	68.30	-16.38	Peak	
2 *	10380.0519	25.53	14.66	40.19	54.00	-13.81	AVG	

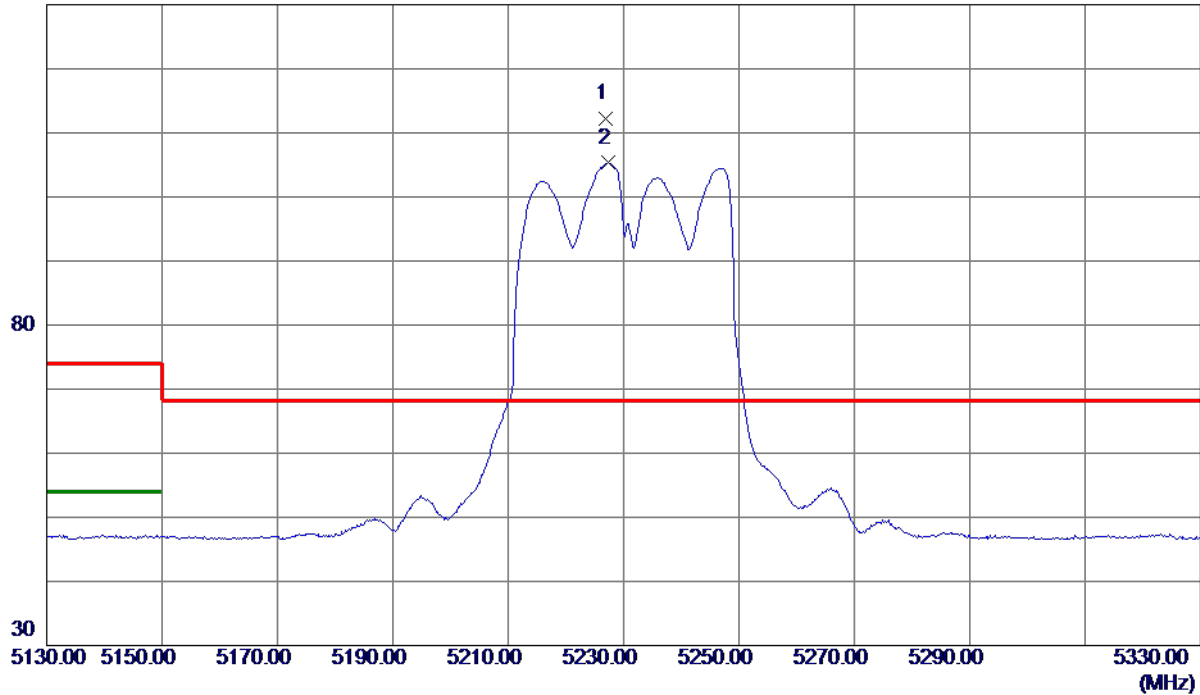
REMARKS:

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

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

Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5226.8000	94.93	17.27	112.20	68.30	43.90	Peak	No Limit
2	5227.4000	88.03	17.27	105.30	999.00	-893.70	AVG	No Limit

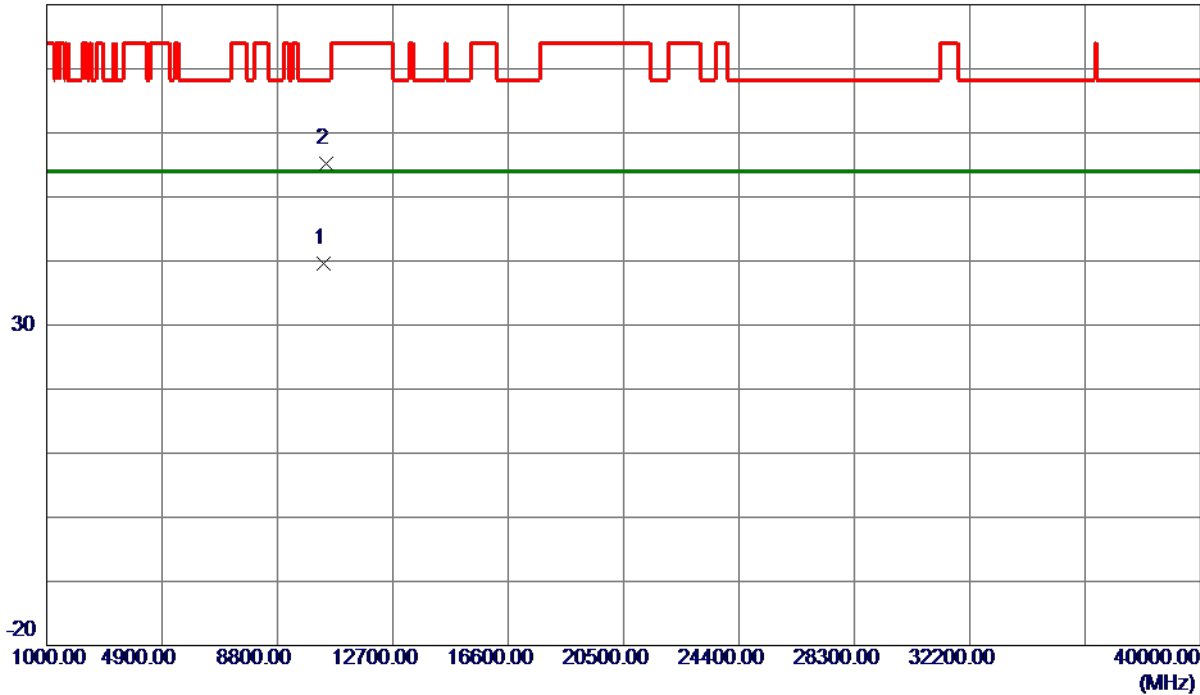
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10380.3540	24.92	14.66	39.58	54.00	-14.42	AVG	
2 *	10460.0439	40.44	14.79	55.23	68.30	-13.07	Peak	

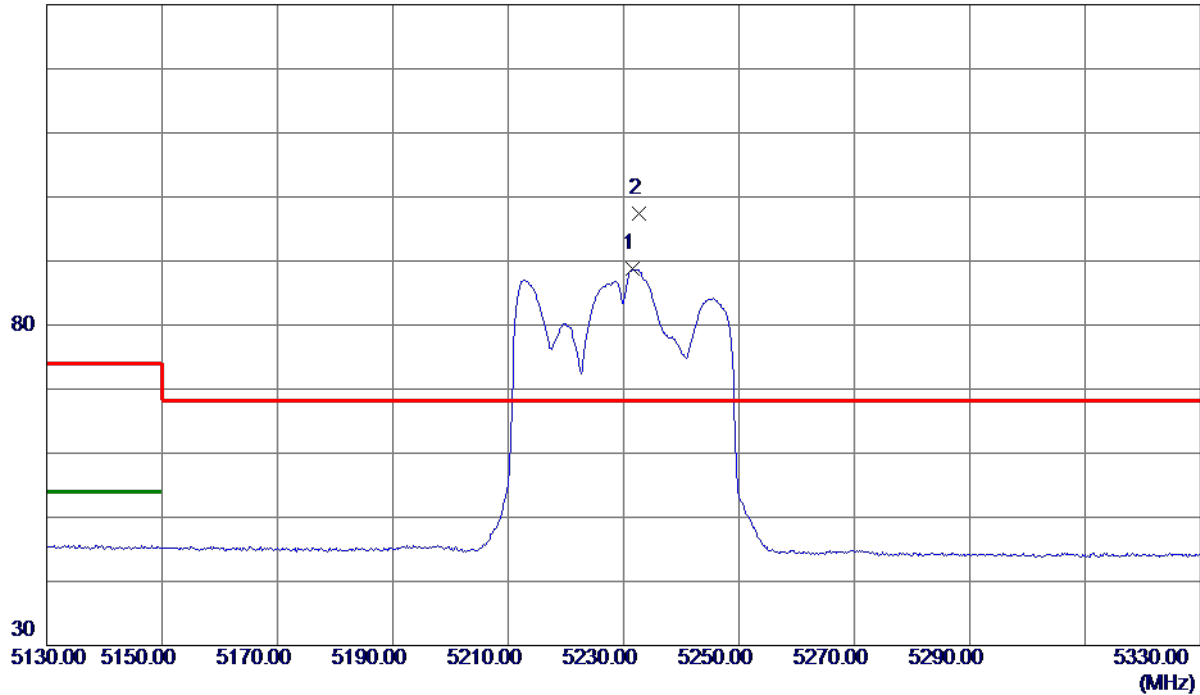
REMARKS:

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

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

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5231.6000	71.40	17.42	88.82	999.00	-910.18	AVG	No Limit
2 *	5232.6000	79.90	17.42	97.32	68.30	29.02	Peak	No Limit

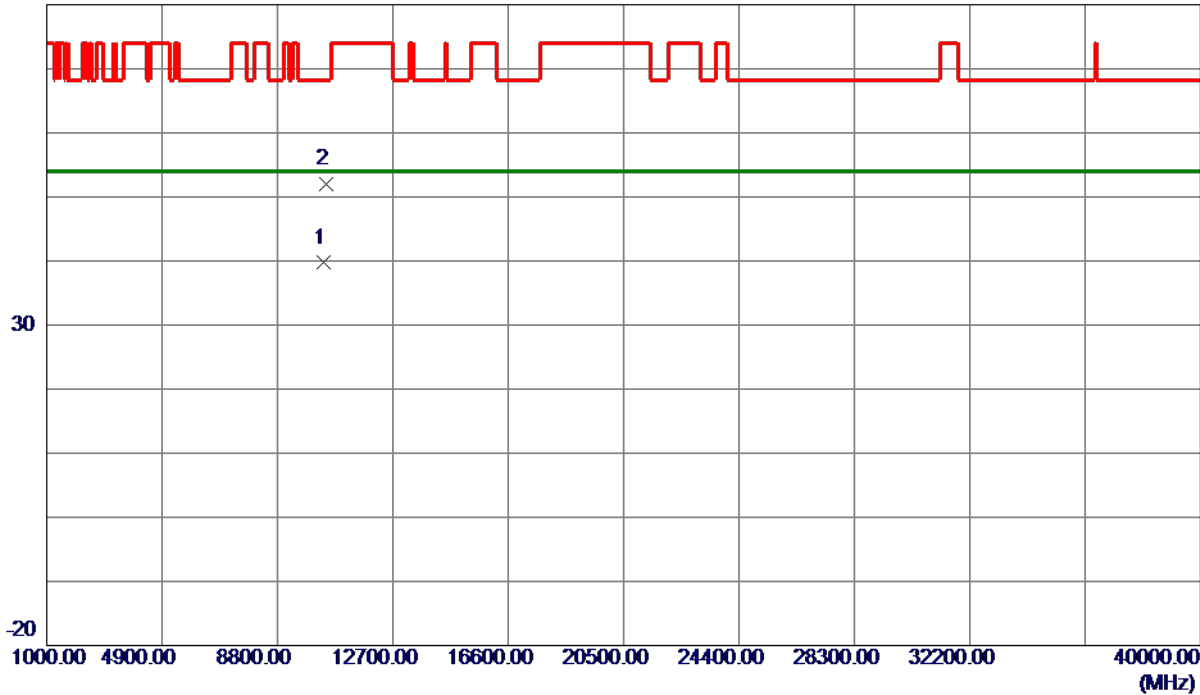
REMARKS:

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

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

Horizontal

80 dBuV/m

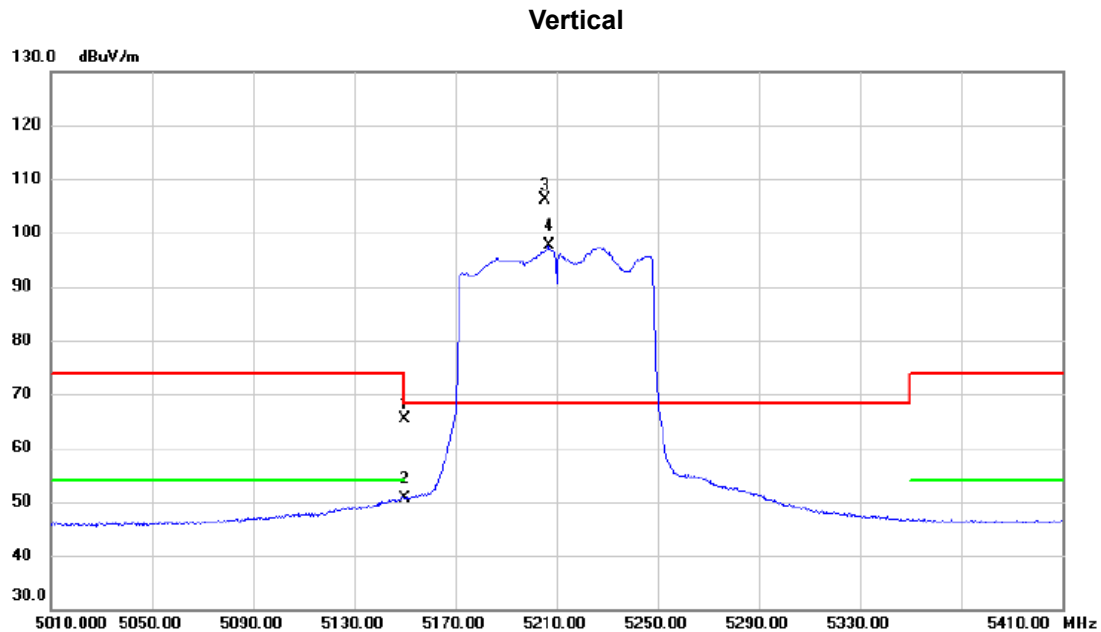


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10380.3220	25.04	14.66	39.70	54.00	-14.30	AVG	
2	10459.6950	37.29	14.79	52.08	68.30	-16.22	Peak	

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



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5150.000	48.29	17.17	65.46	74.00	-8.54	peak	
2		5150.000	33.55	17.17	50.72	54.00	-3.28	AVG	
3	*	5205.600	88.84	17.24	106.08	68.30	37.78	peak	No Limit
4	X	5206.800	80.31	17.24	97.55	68.30	29.25	AVG	No Limit

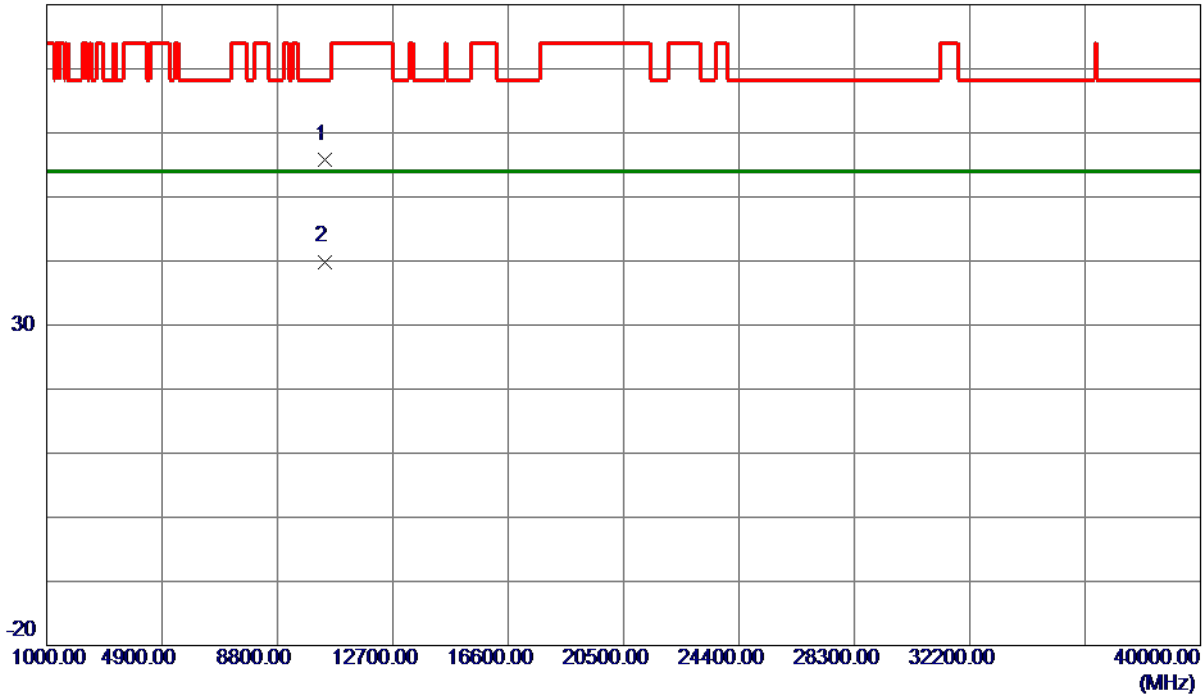
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10420.0580	41.10	14.72	55.82	68.30	-12.48	Peak	
2	10420.1240	25.18	14.72	39.90	54.00	-14.10	AVG	

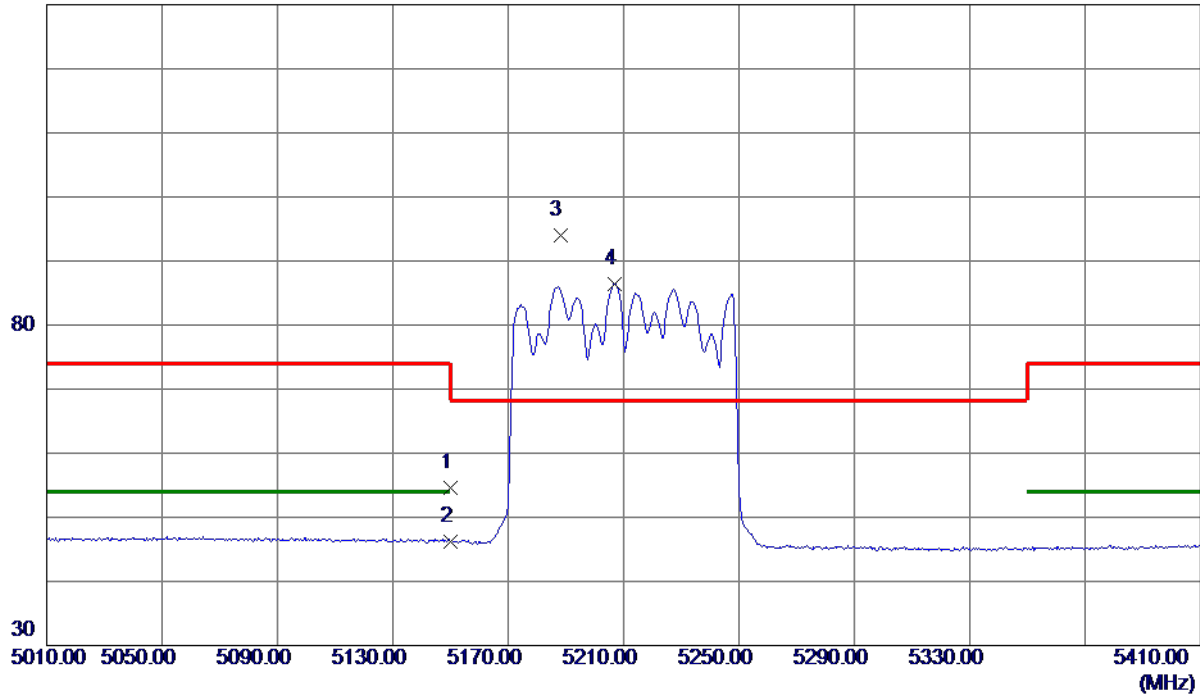
REMARKS:

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

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

Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	37.43	17.26	54.69	74.00	-19.31	Peak	
2	5150.0000	28.85	17.26	46.11	54.00	-7.89	AVG	
3 *	5188.0000	76.60	17.33	93.93	68.30	25.63	Peak	No Limit
4	5206.8000	69.03	17.37	86.40	999.00	-912.60	AVG	No Limit

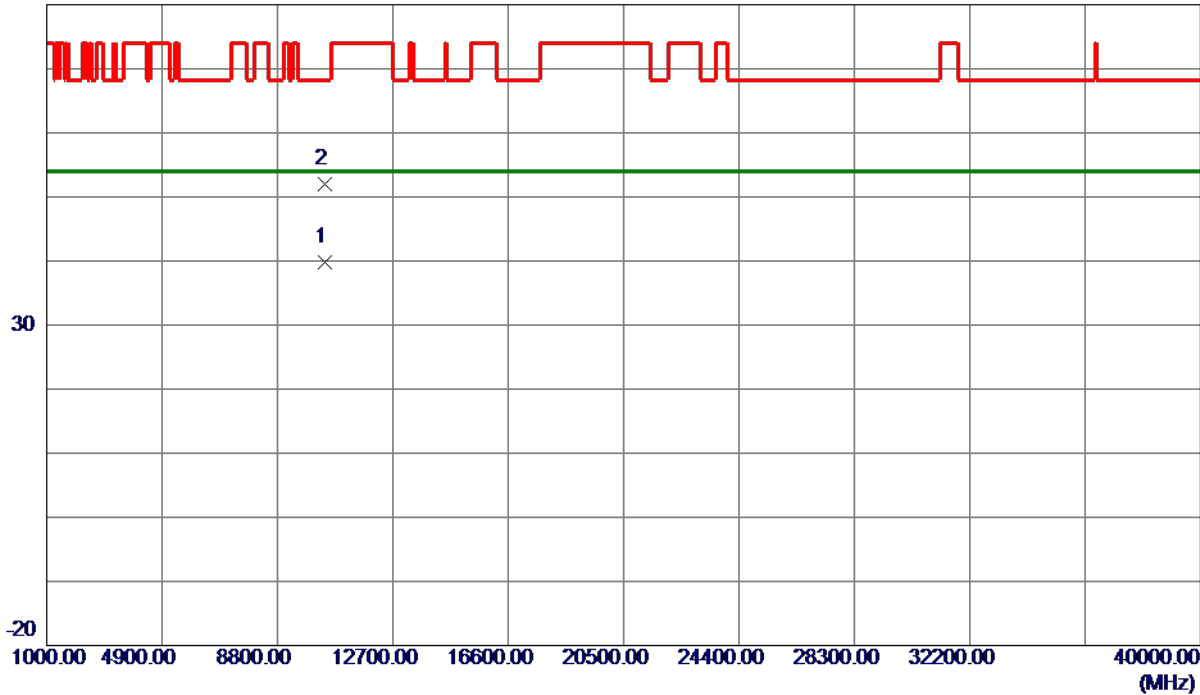
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10419.7850	25.07	14.72	39.79	54.00	-14.21	AVG	
2	10419.9900	37.19	14.72	51.91	68.30	-16.39	Peak	

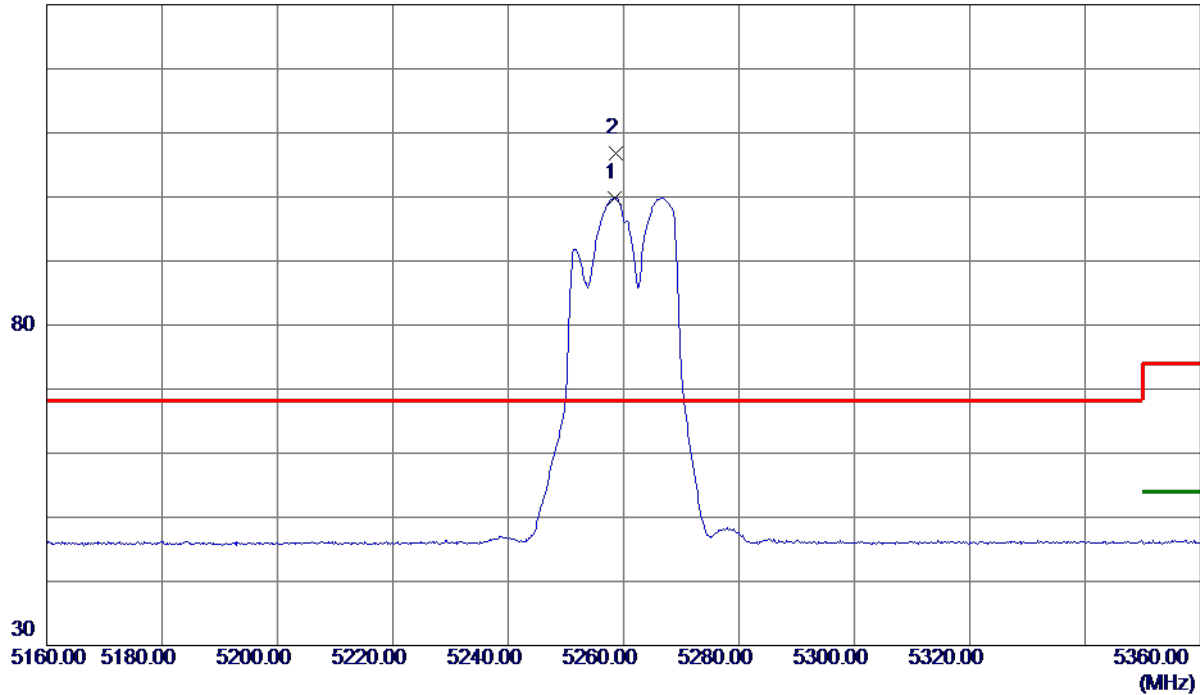
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5260 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	5258.4000	82.49	17.30	99.79	999.00	-899.21	AVG	No Limit
2 *	5258.6000	89.51	17.30	106.81	68.30	38.51	Peak	No Limit

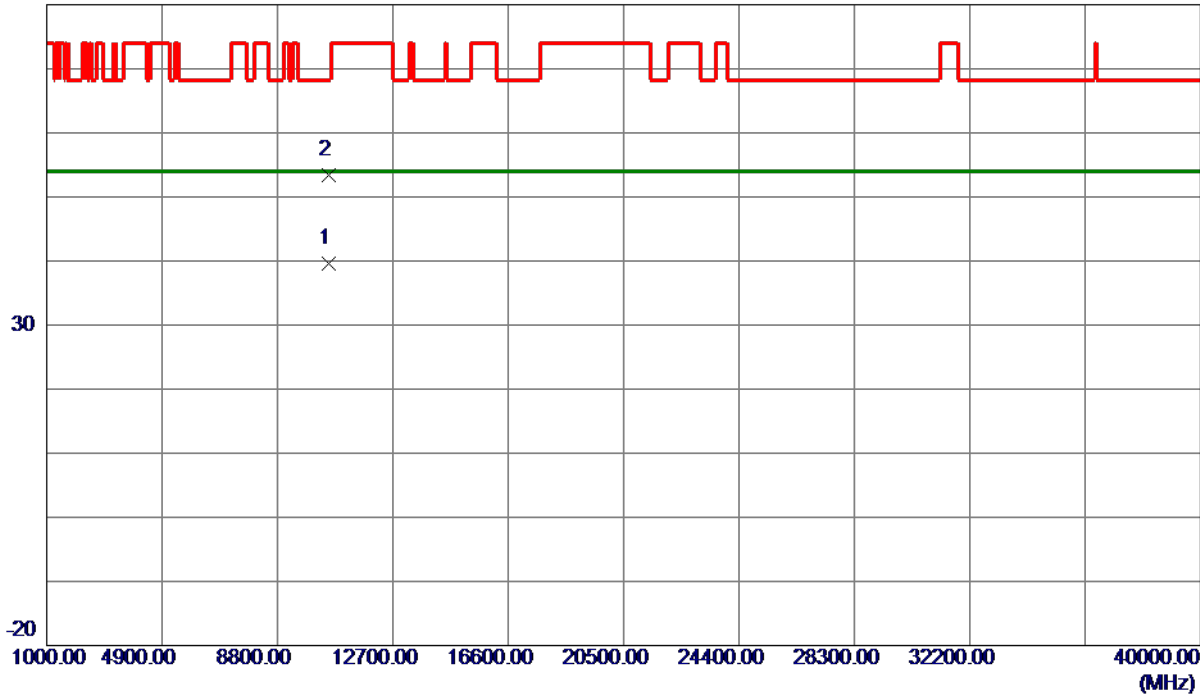
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5260 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10519.2550	24.72	14.90	39.62	54.00	-14.38	AVG	
2	10519.3620	38.45	14.90	53.35	68.30	-14.95	Peak	

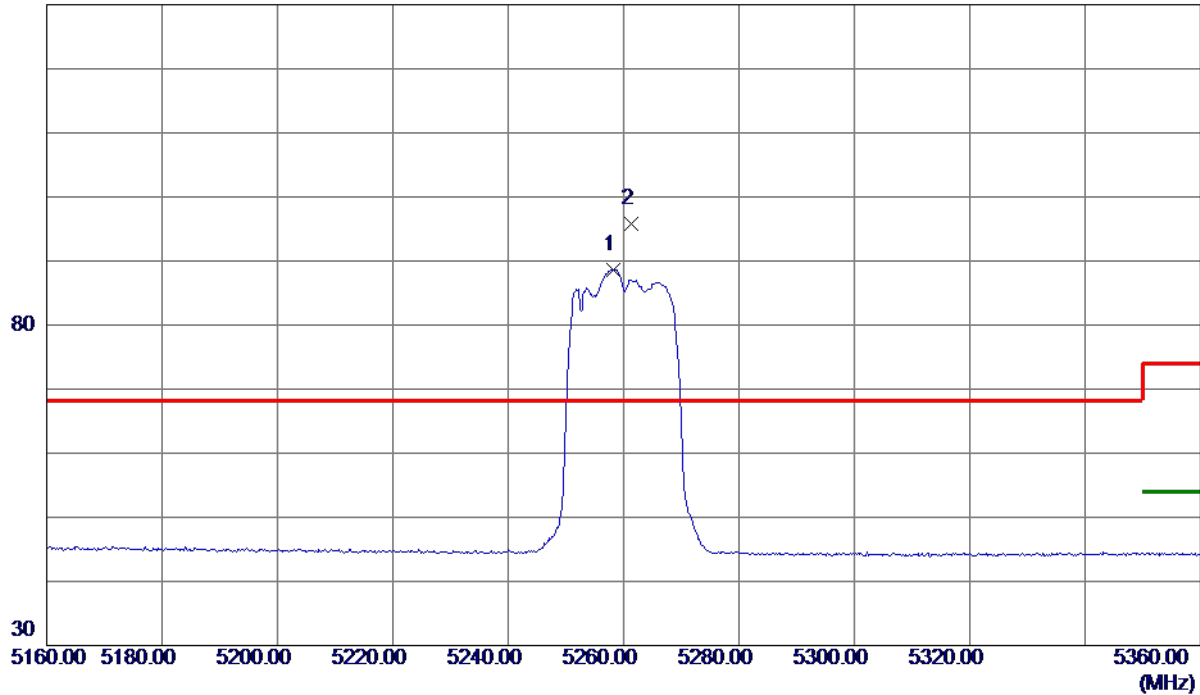
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5260 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	5258.2000	71.21	17.47	88.68	999.00	-910.32	AVG	No Limit
2 *	5261.4000	78.23	17.48	95.71	68.30	27.41	Peak	No Limit

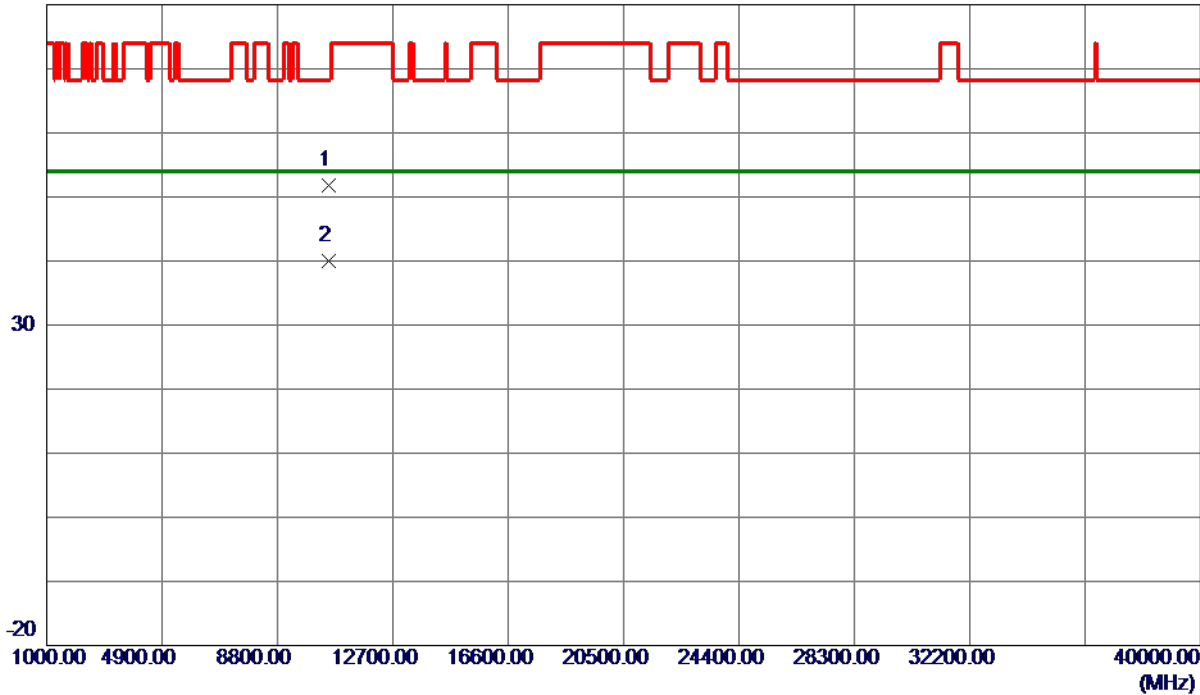
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5260 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10519.7450	36.96	14.90	51.86	68.30	-16.44	Peak	
2 *	10519.7699	25.08	14.90	39.98	54.00	-14.02	AVG	

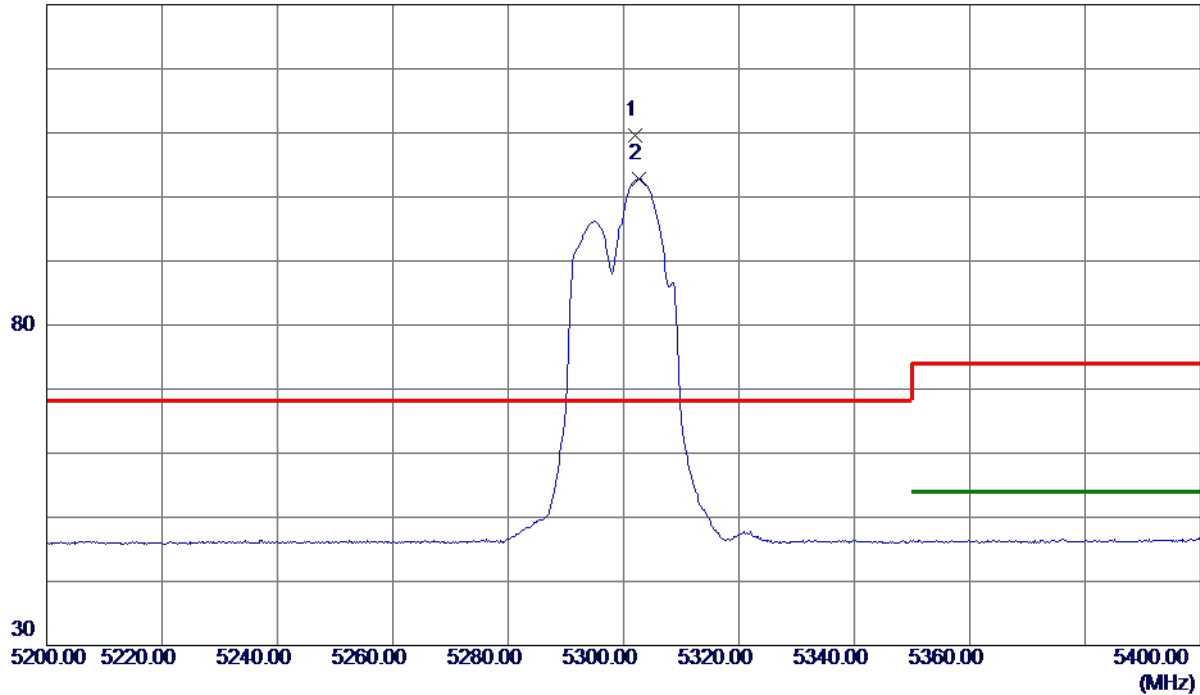
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5300 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 *	5302.0000	92.22	17.35	109.57	68.30	41.27	Peak	No Limit
2	5302.6000	85.41	17.35	102.76	999.00	-896.24	AVG	No Limit

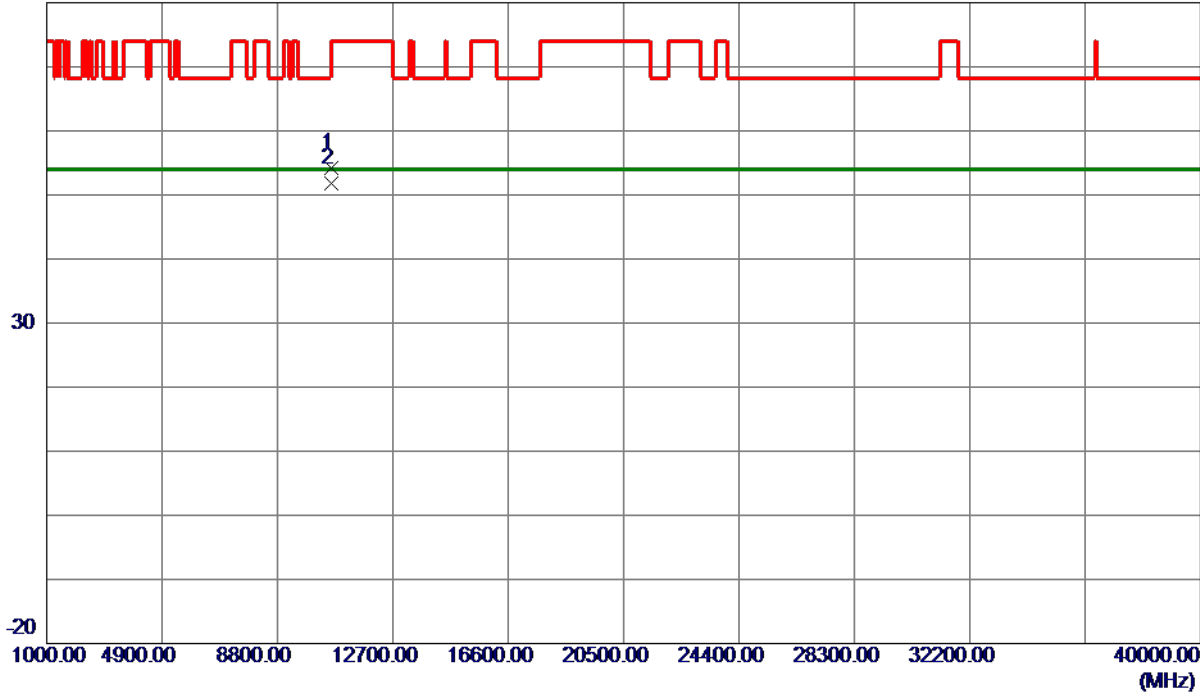
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5300 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10599.5500	39.06	15.08	54.14	68.30	-14.16	Peak	
2 *	10600.9160	36.74	15.09	51.83	54.00	-2.17	AVG	

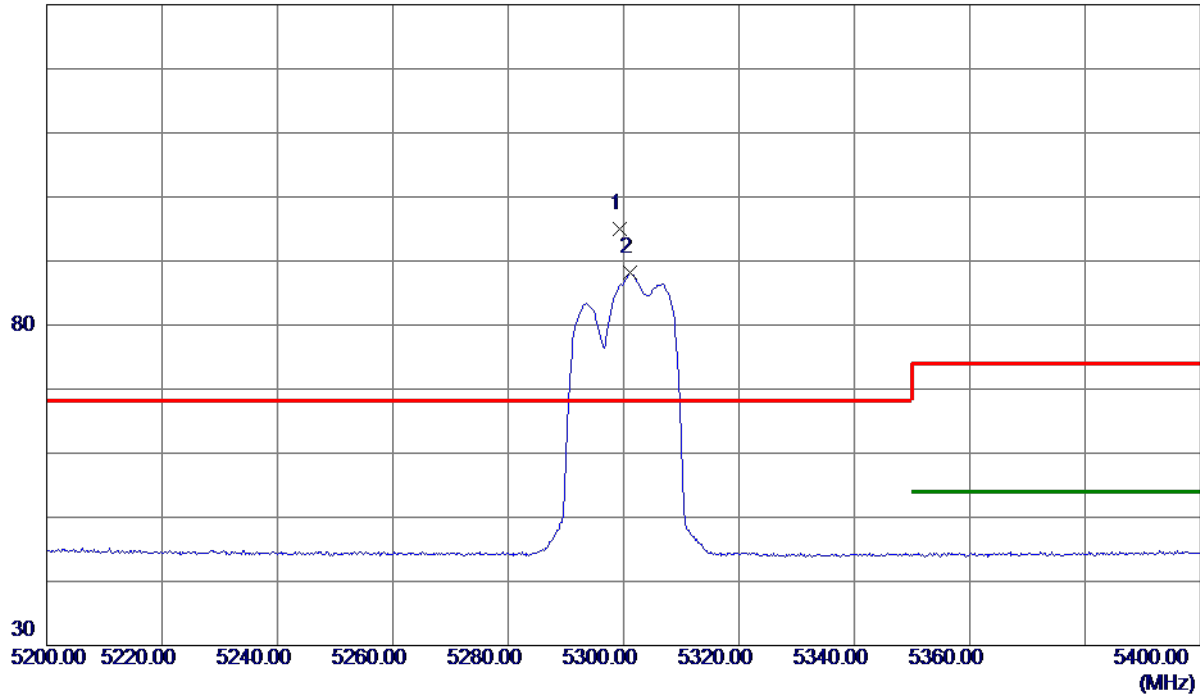
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5300 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 *	5299.4000	77.34	17.56	94.90	68.30	26.60	Peak	No Limit
2	5301.2000	70.60	17.56	88.16	999.00	-910.84	AVG	No Limit

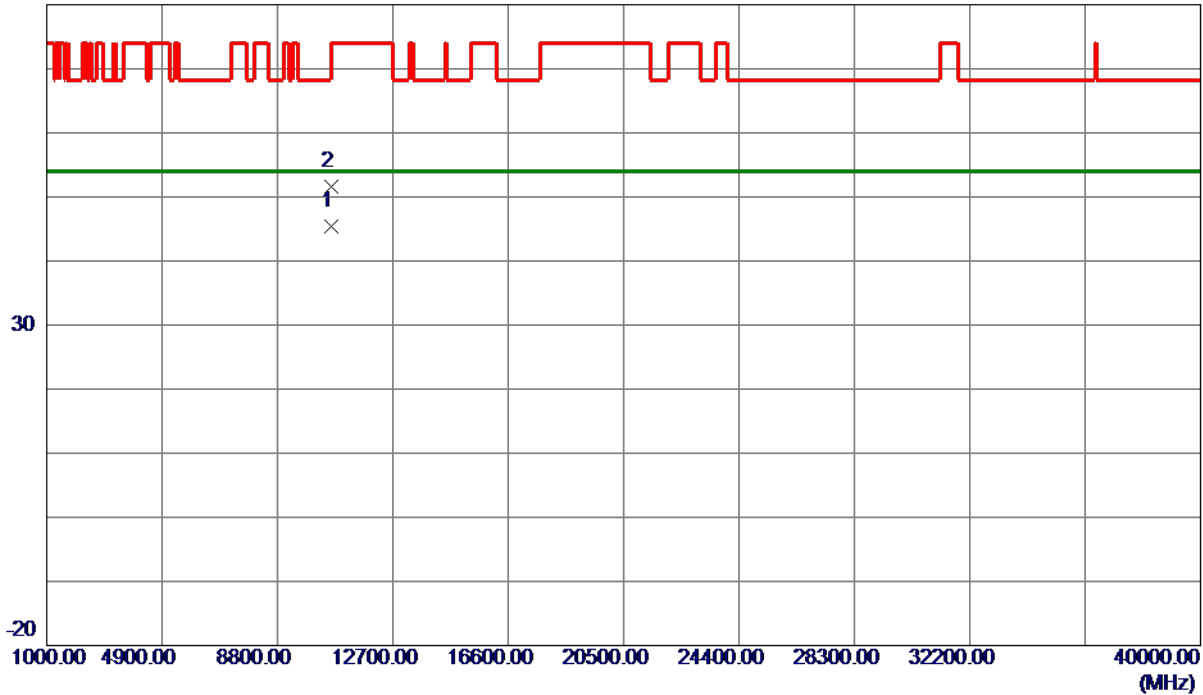
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5300 MHz

Horizontal

80 dBuV/m

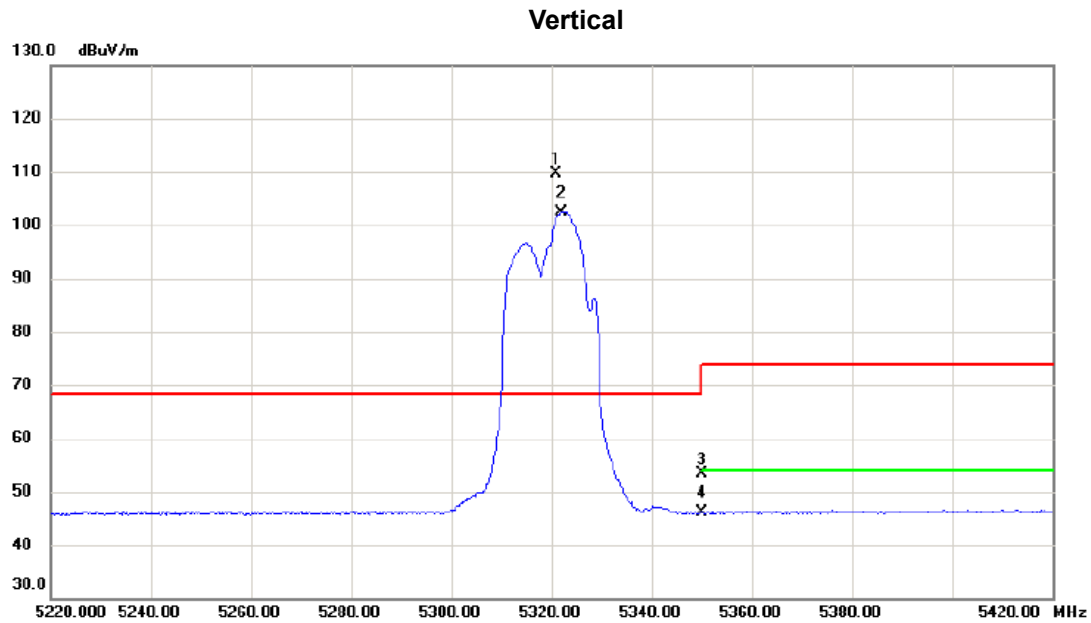


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10600.0400	30.35	15.09	45.44	54.00	-8.56	AVG	
2	10600.0450	36.45	15.09	51.54	74.00	-22.46	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5320 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5320.800	92.35	17.37	109.72	68.30	41.42	peak	No Limit
2	X	5322.000	85.11	17.37	102.48	68.30	34.18	AVG	No Limit
3		5350.000	35.87	17.41	53.28	74.00	-20.72	peak	
4		5350.000	28.84	17.41	46.25	54.00	-7.75	AVG	

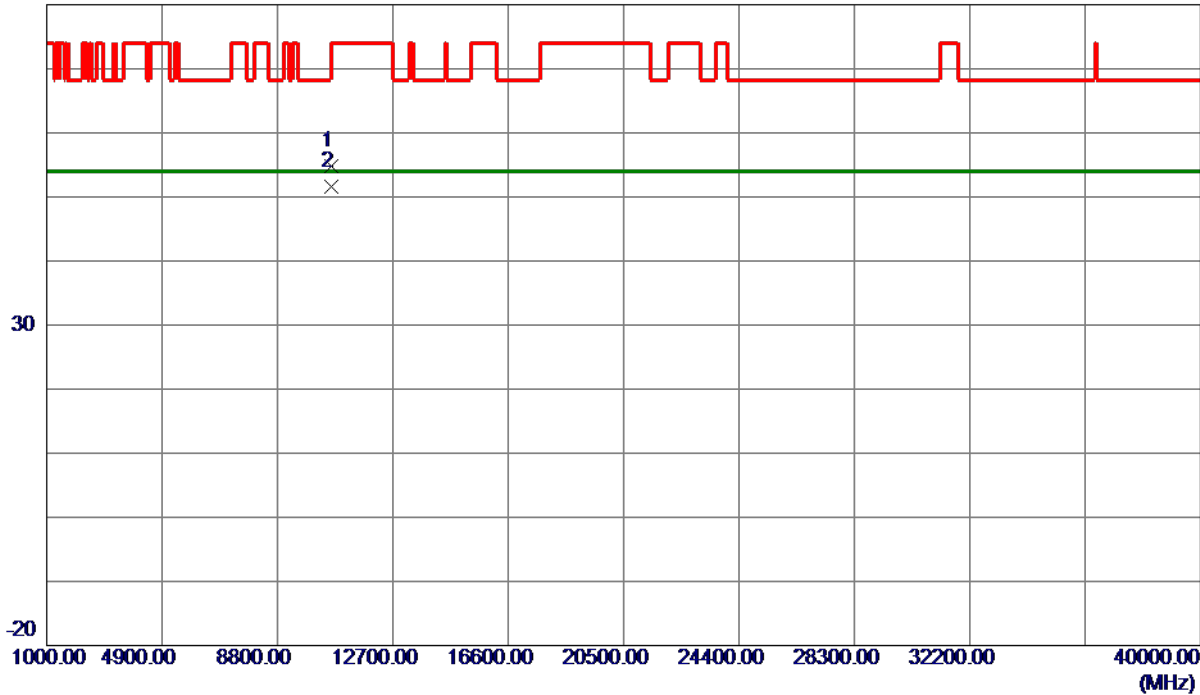
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5320 MHz

Vertical

80 dBuV/m

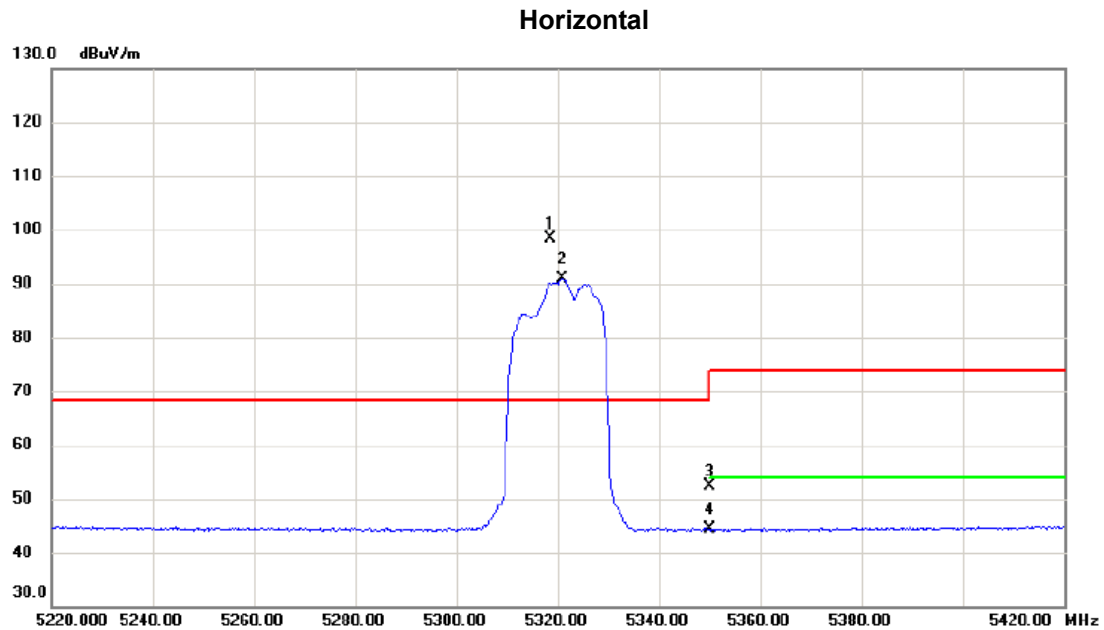


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10639.8350	39.60	15.18	54.78	74.00	-19.22	Peak	
2 *	10639.8700	36.51	15.18	51.69	54.00	-2.31	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5320 MHz



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5318.600	80.73	17.60	98.33	68.30	30.03	peak	No Limit
2 X	5321.000	73.32	17.60	90.92	68.30	22.62	AVG	No Limit
3	5350.000	34.65	17.66	52.31	74.00	-21.69	peak	
4	5350.000	26.68	17.66	44.34	54.00	-9.66	AVG	

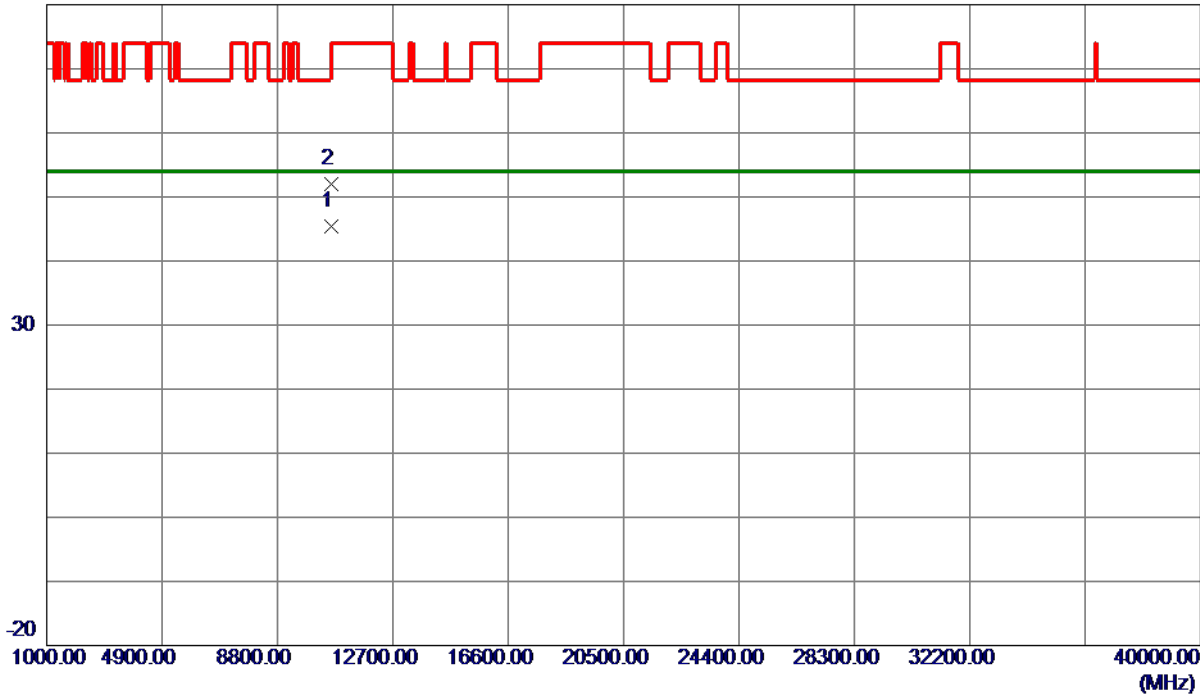
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT20) Mode 5320 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10639.9100	30.19	15.18	45.37	54.00	-8.63	AVG	
2	10640.1400	36.77	15.18	51.95	74.00	-22.05	Peak	

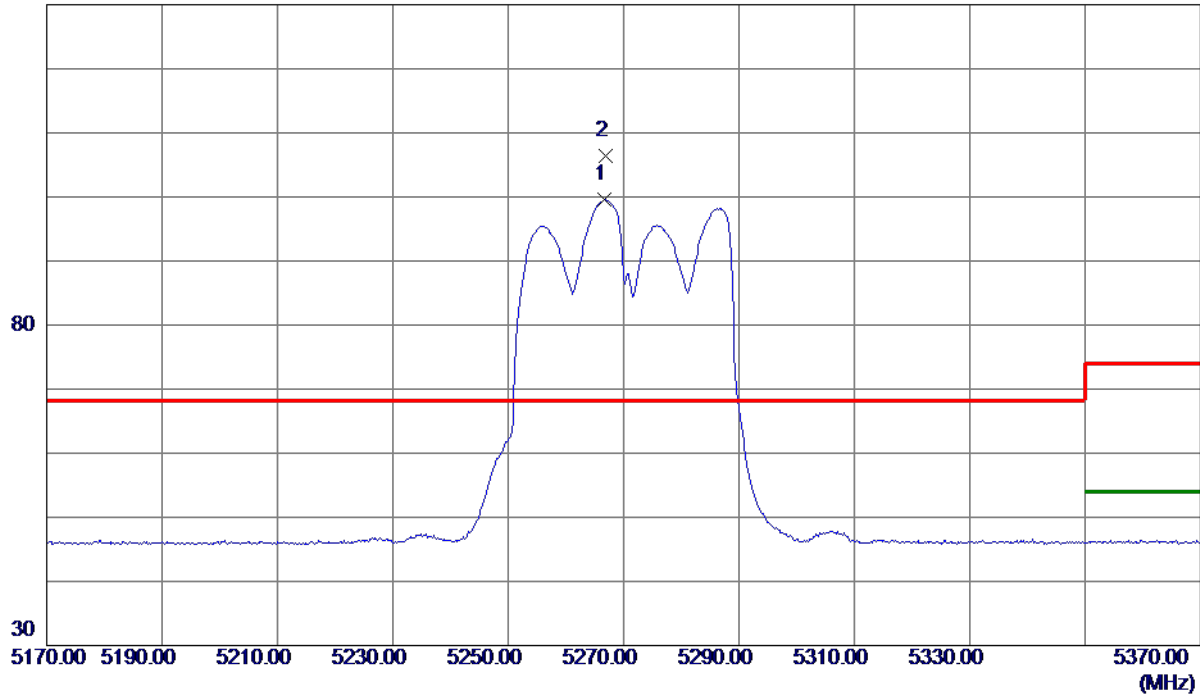
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5270 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	5266.6000	82.23	17.31	99.54	999.00	-899.46	AVG	No Limit
2 *	5266.8000	89.13	17.31	106.44	68.30	38.14	Peak	No Limit

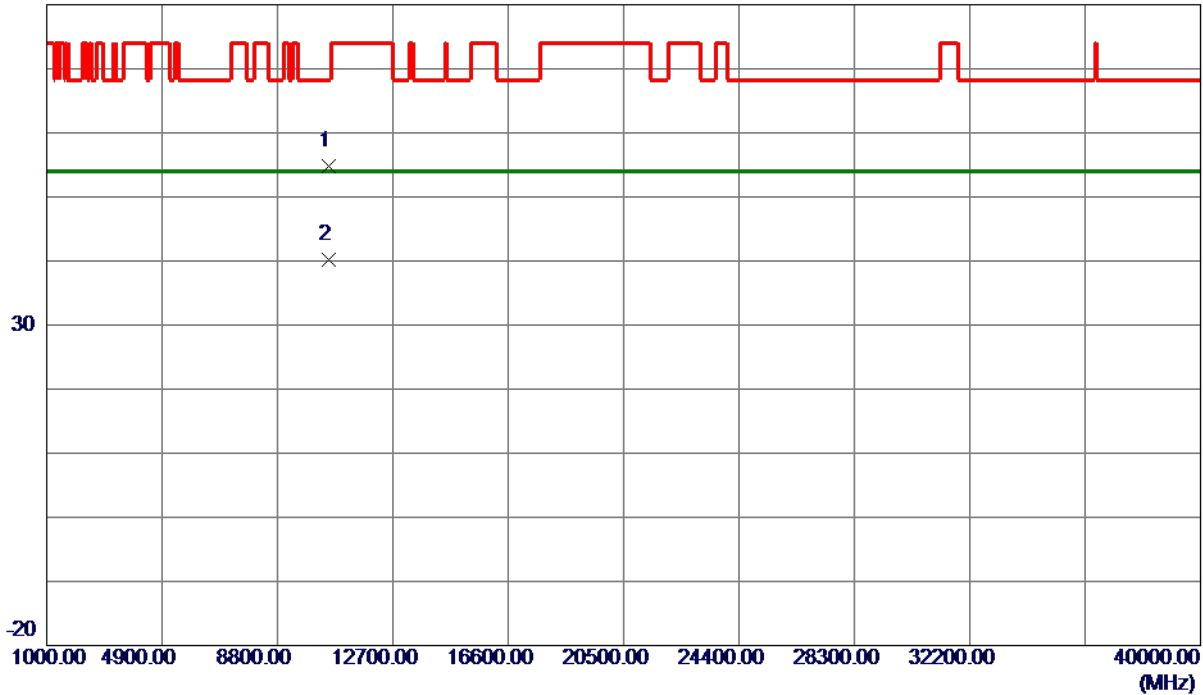
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5270 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10539.7120	39.86	14.95	54.81	68.30	-13.49	Peak	
2	10539.7779	25.28	14.95	40.23	54.00	-13.77	AVG	

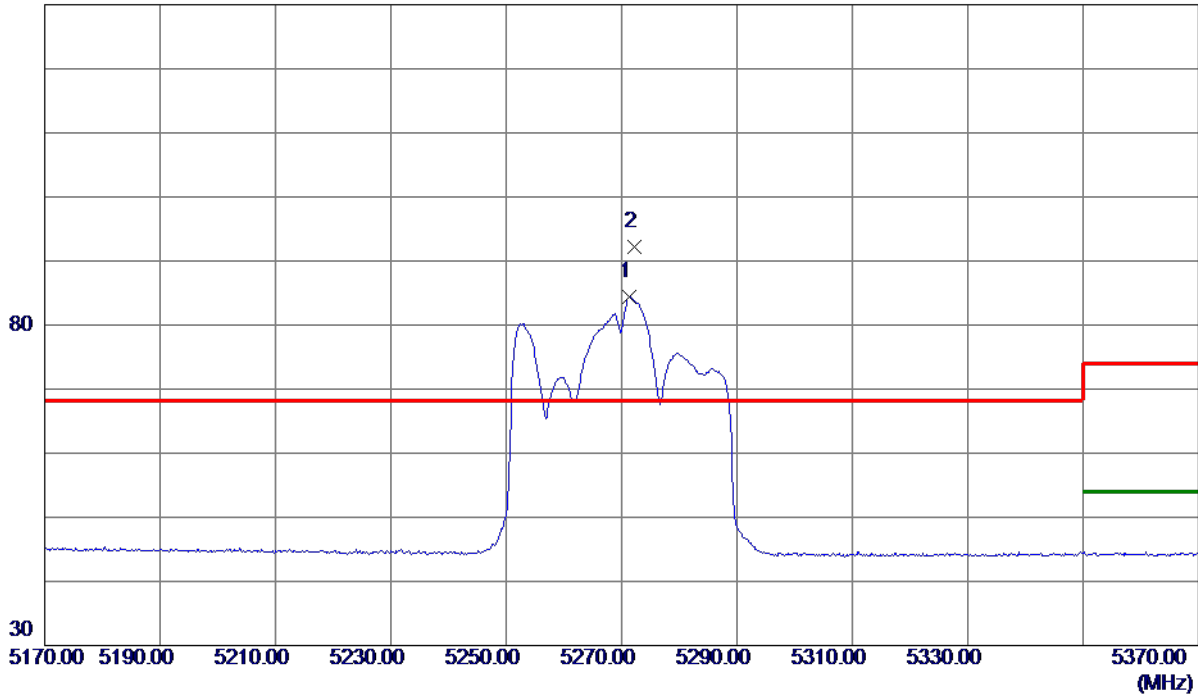
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5270 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	5271.4000	66.85	17.50	84.35	999.00	-914.65	AVG	No Limit
2 *	5272.2000	74.61	17.50	92.11	68.30	23.81	Peak	No Limit

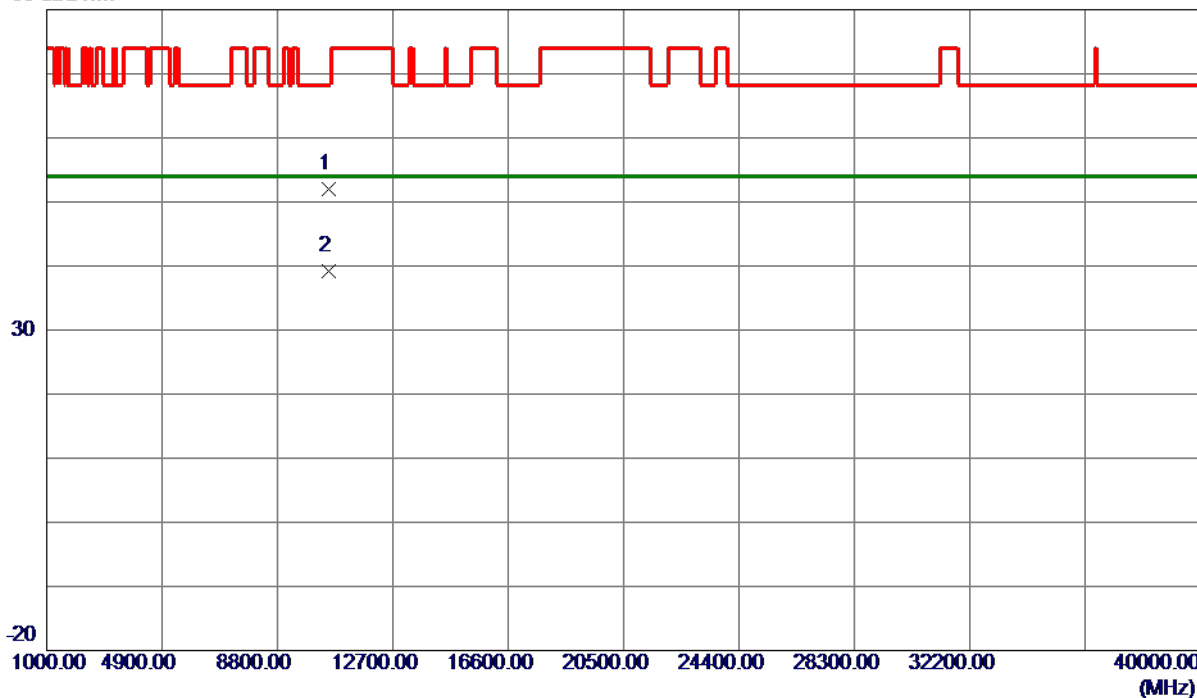
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5270 MHz

Horizontal

80 dBuV/m

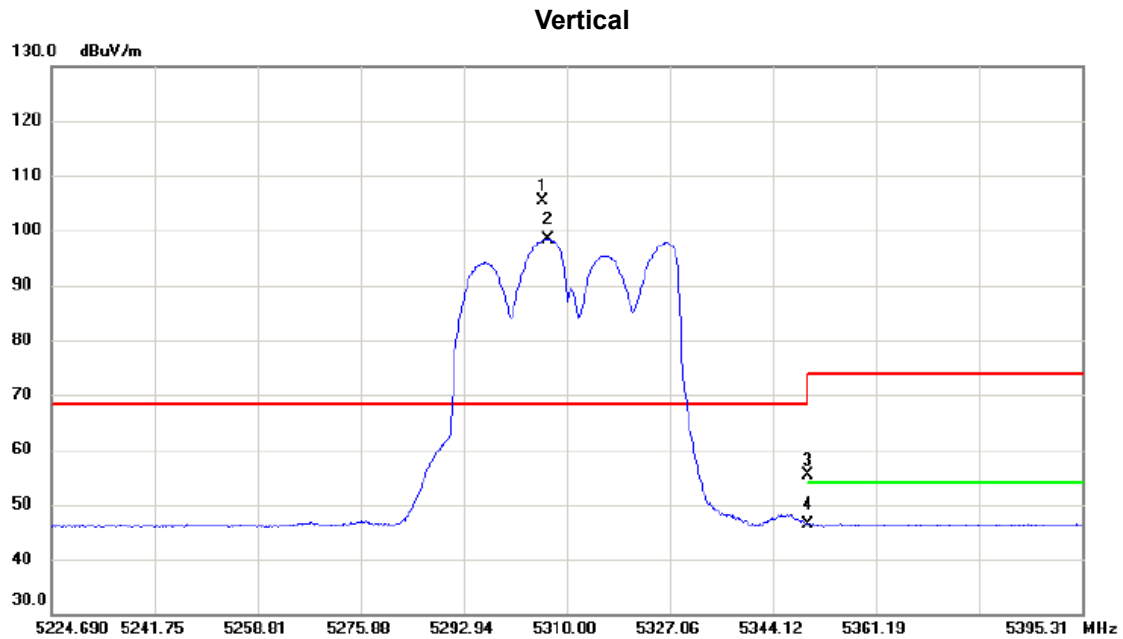


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10539.9500	37.04	14.95	51.99	68.30	-16.31	Peak	
2 *	10539.9500	24.18	14.95	39.13	54.00	-14.87	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5310 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5306.076	87.93	17.35	105.28	68.30	36.98	peak	No Limit
2	X	5306.929	81.07	17.35	98.42	68.30	30.12	AVG	No Limit
3		5350.000	37.90	17.41	55.31	74.00	-18.69	peak	
4		5350.000	29.06	17.41	46.47	54.00	-7.53	AVG	

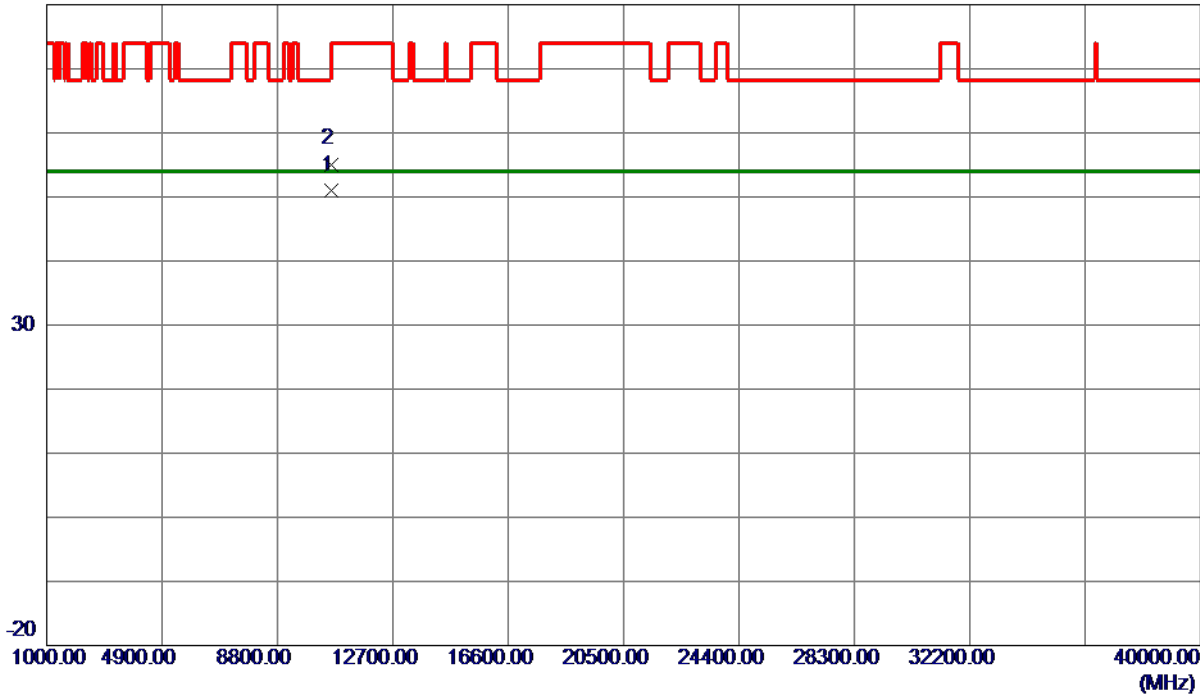
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5310 MHz

Vertical

80 dBuV/m

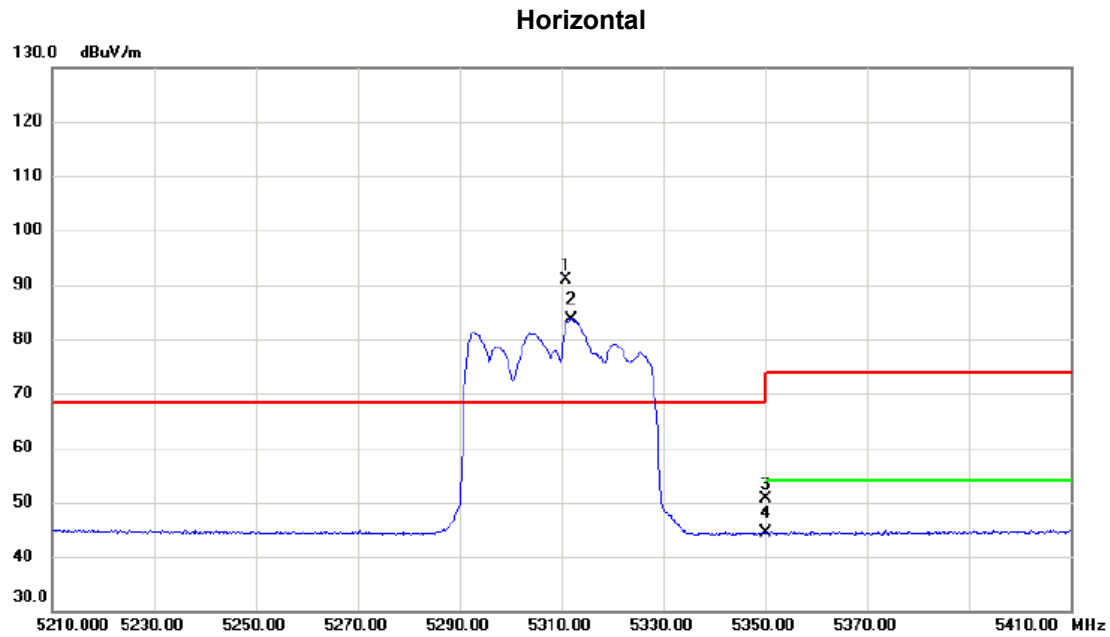


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10619.8920	35.89	15.13	51.02	54.00	-2.98	AVG	
2	10619.9020	39.97	15.13	55.10	74.00	-18.90	Peak	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5310 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5311.000	73.37	17.58	90.95	68.30	22.65	peak	No Limit
2	X	5312.000	66.11	17.58	83.69	68.30	15.39	AVG	No Limit
3		5350.000	33.02	17.66	50.68	74.00	-23.32	peak	
4		5350.000	26.69	17.66	44.35	54.00	-9.65	AVG	

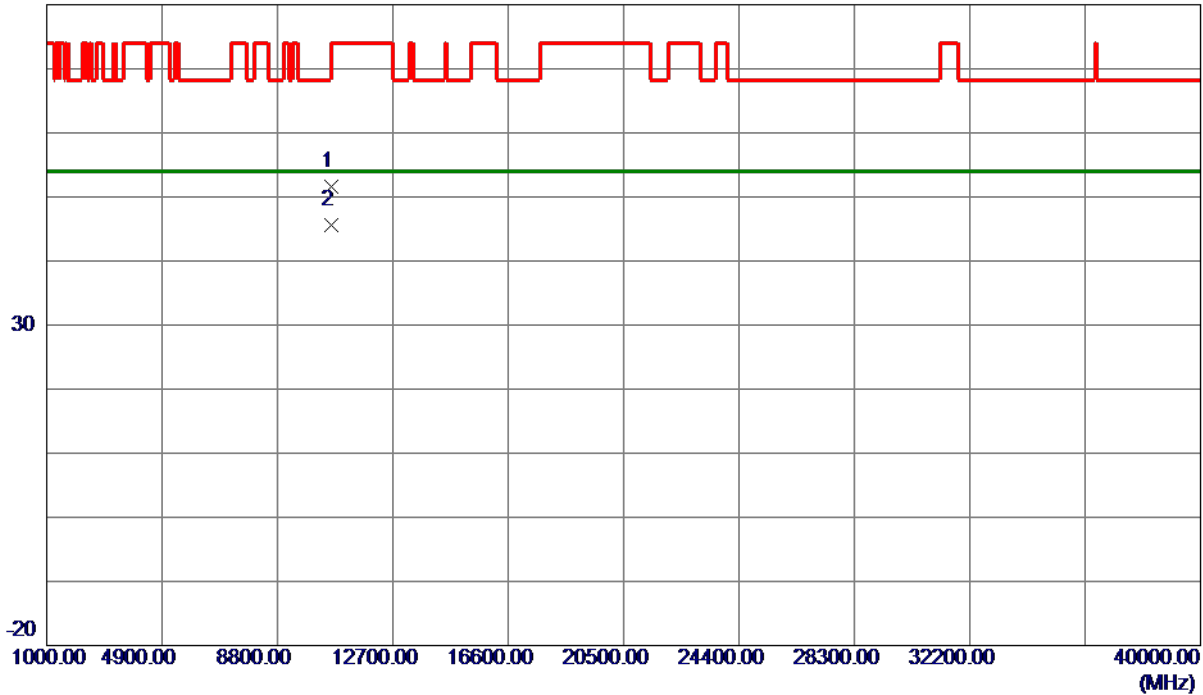
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT40) Mode 5310 MHz

Horizontal

80 dBuV/m

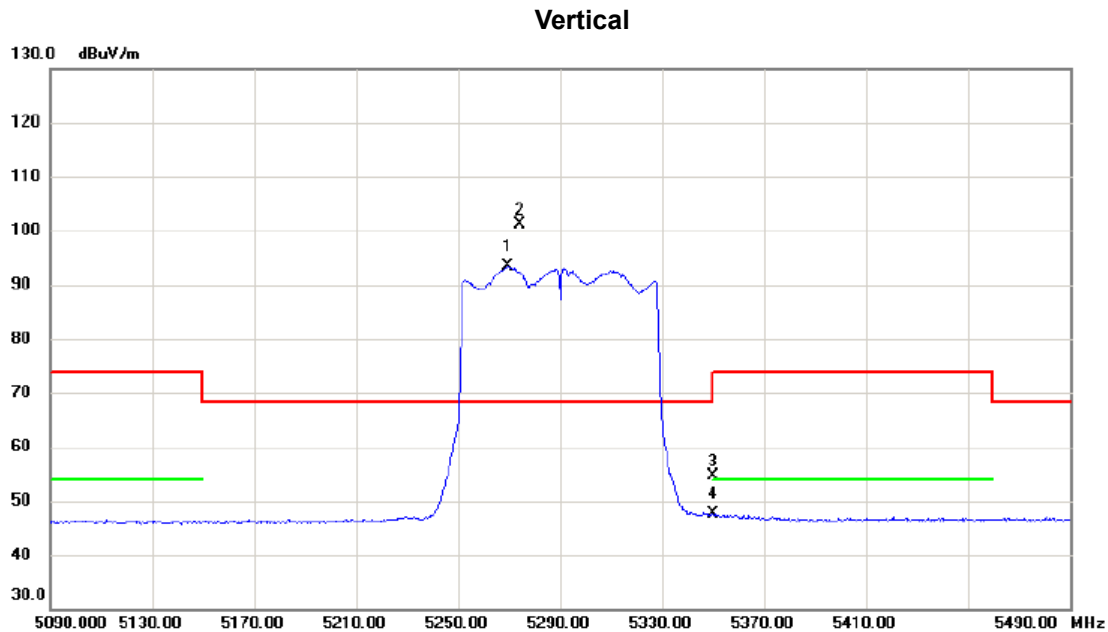


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10619.7150	36.51	15.13	51.64	74.00	-22.36	Peak	
2 *	10619.8550	30.38	15.13	45.51	54.00	-8.49	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5269.600	76.13	17.32	93.45	68.30	25.15	AVG	No Limit
2	*	5274.400	83.80	17.32	101.12	68.30	32.82	peak	No Limit
3		5350.000	37.18	17.41	54.59	74.00	-19.41	peak	
4		5350.000	30.22	17.41	47.63	54.00	-6.37	AVG	

REMARKS:

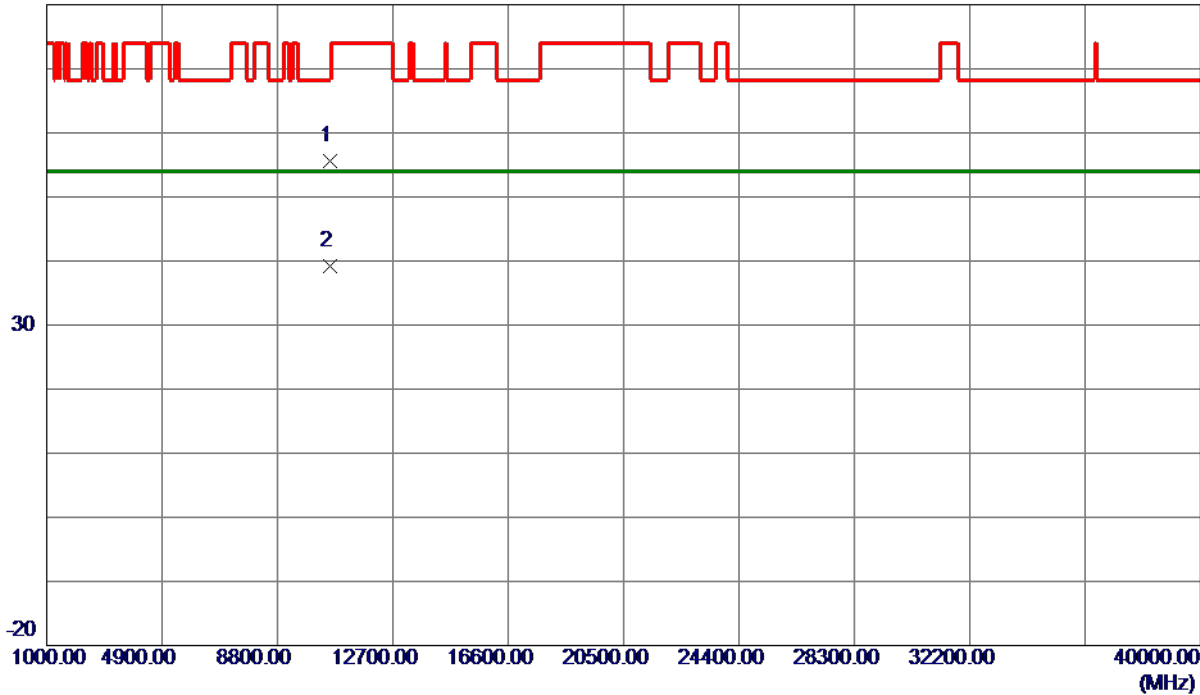
(1) Measurement Value = Reading Level + Correct Factor.

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 MHz

Vertical

80 dBuV/m

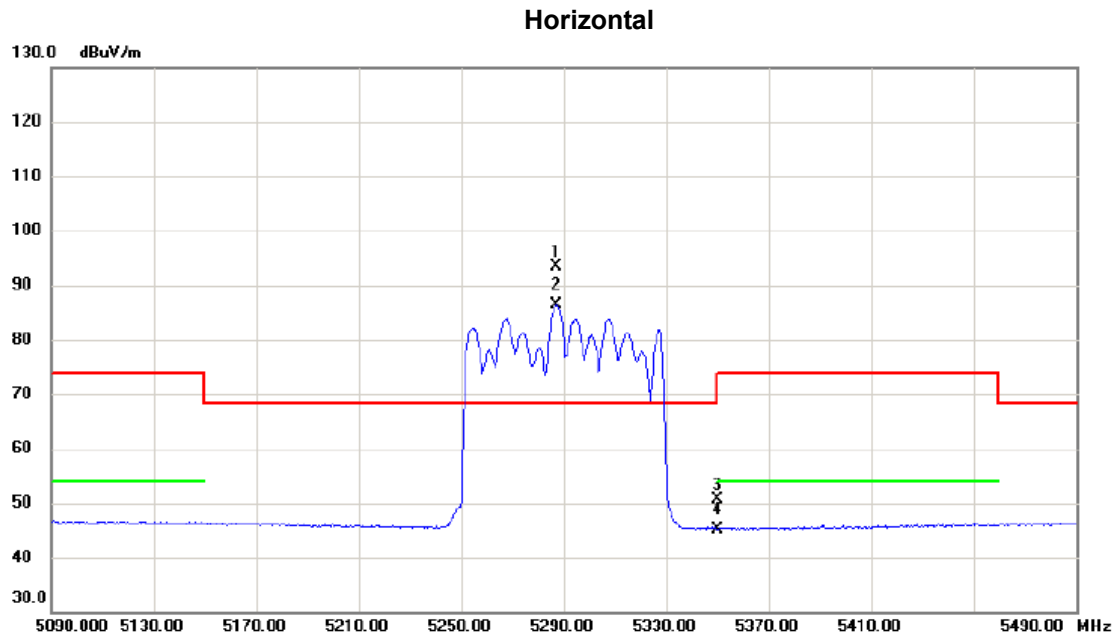


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10579.9580	40.61	15.04	55.65	68.30	-12.65	Peak	
2	10579.9580	24.13	15.04	39.17	54.00	-14.83	AVG	

REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	5287.200	75.74	17.53	93.27	68.30	24.97	peak	No Limit
2	X	5287.200	68.85	17.53	86.38	68.30	18.08	AVG	No Limit
3		5350.000	33.00	17.66	50.66	74.00	-23.34	peak	
4		5350.000	27.55	17.66	45.21	54.00	-8.79	AVG	

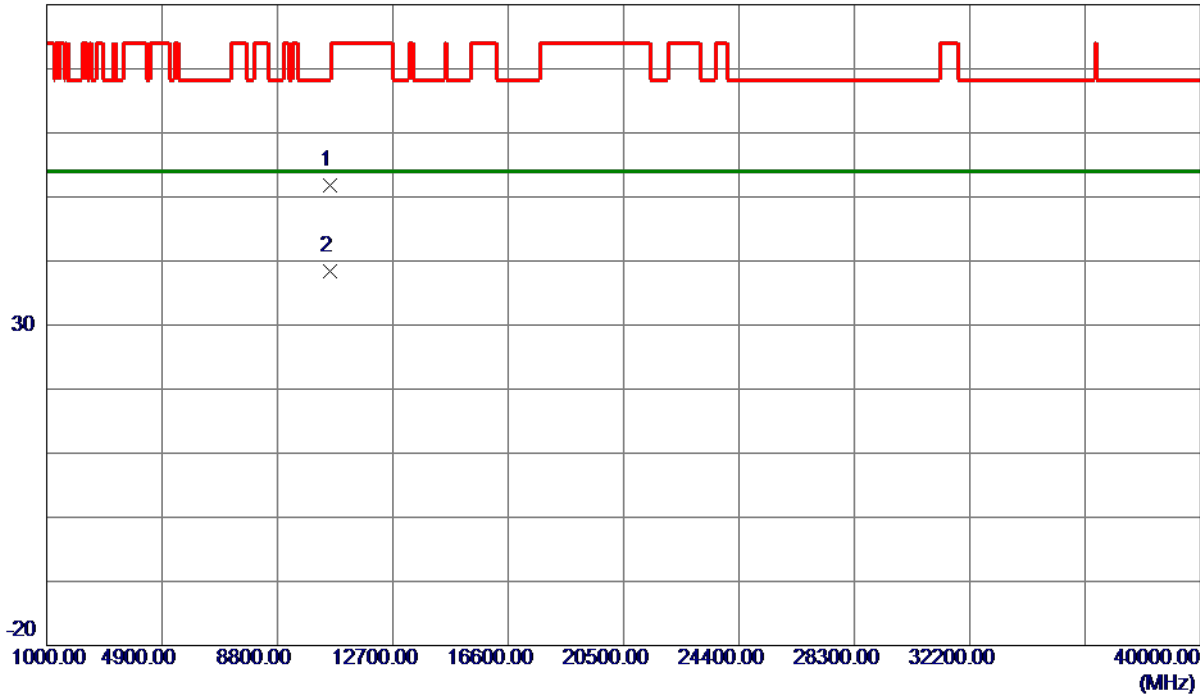
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2A_TX AC (VHT80) Mode 5290 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	10579.8800	36.69	15.04	51.73	68.30	-16.57	Peak	
2 *	10579.8800	23.28	15.04	38.32	54.00	-15.68	AVG	

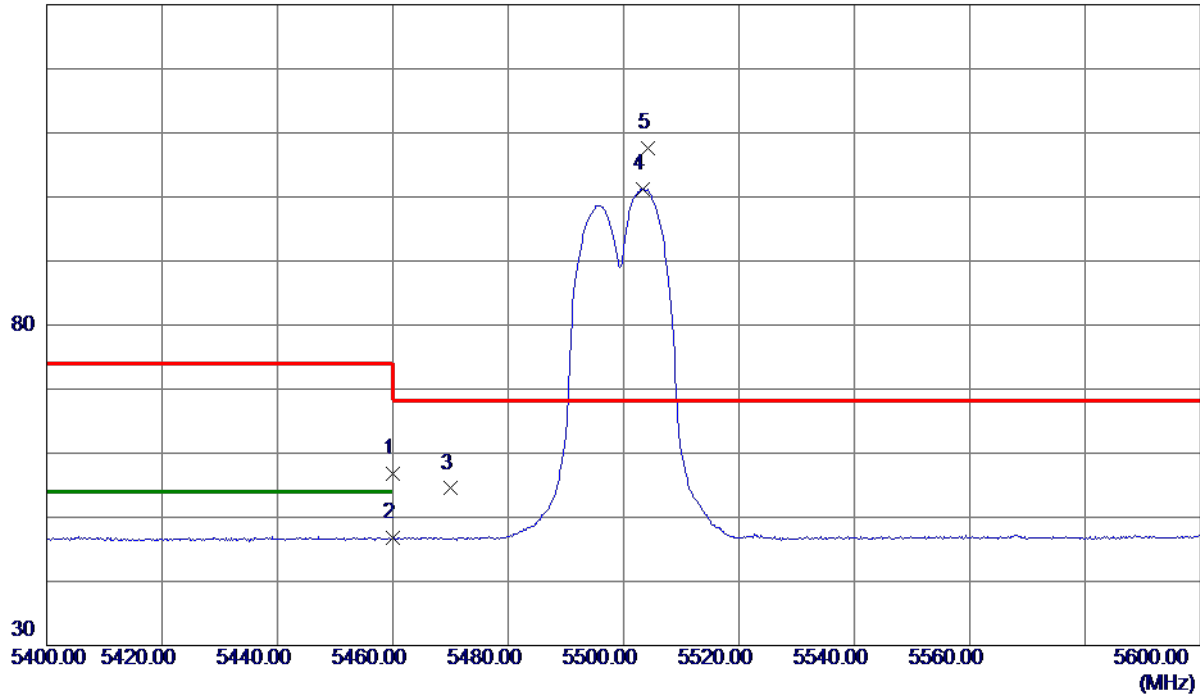
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5500 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	5460.0000	39.25	17.54	56.79	74.00	-17.21	Peak	
2	5460.0000	29.29	17.54	46.83	54.00	-7.17	AVG	
3	5470.0000	36.95	17.55	54.50	68.30	-13.80	Peak	
4	5503.4000	83.68	17.59	101.27	999.00	-897.73	AVG	No Limit
5 *	5504.2000	90.08	17.59	107.67	68.30	39.37	Peak	No Limit

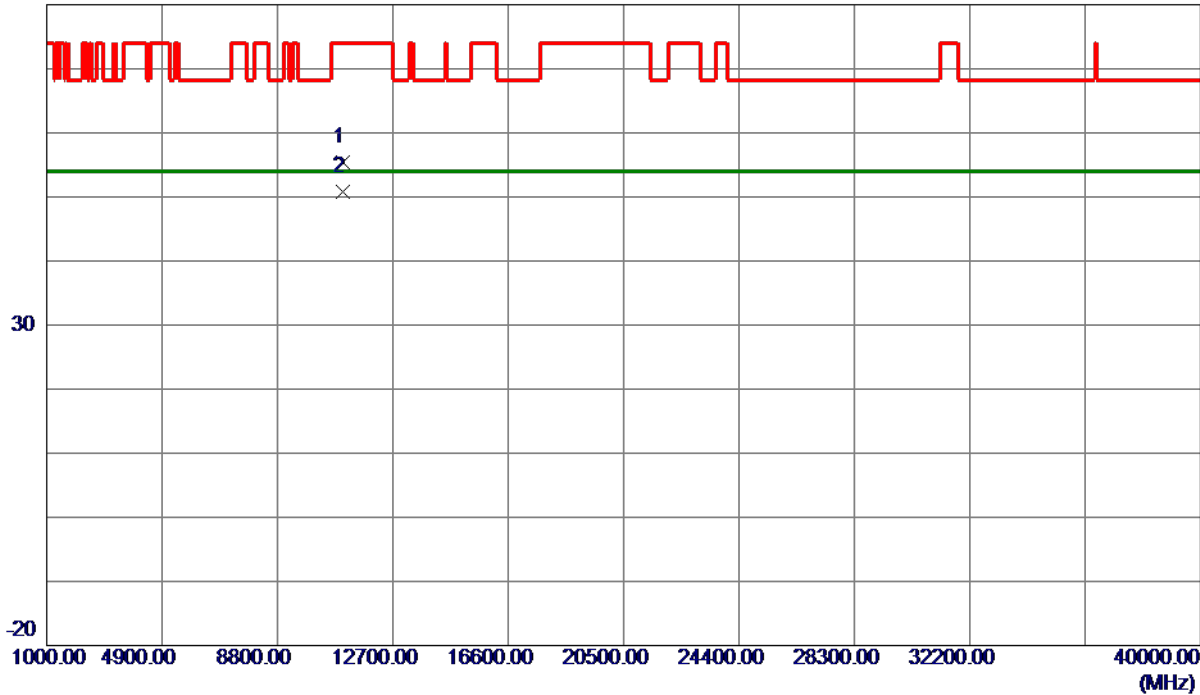
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5500 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11000.0199	39.47	15.99	55.46	74.00	-18.54	Peak	
2 *	11000.9400	34.81	15.99	50.80	54.00	-3.20	AVG	

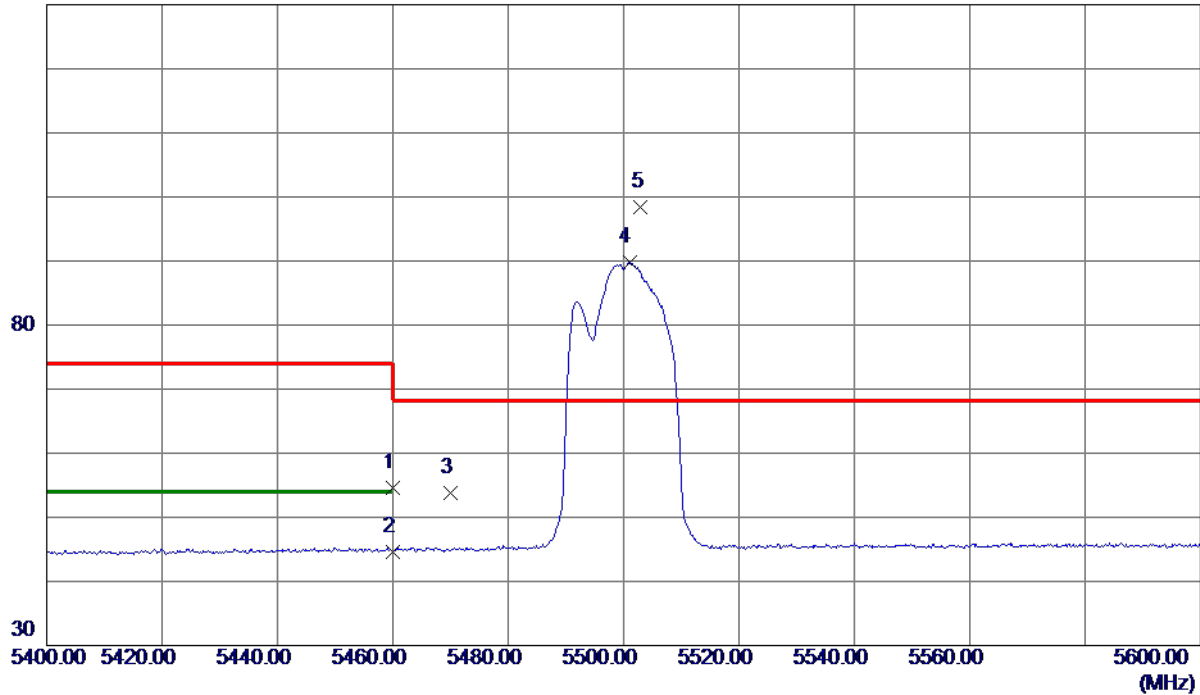
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5500 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	5460.0000	36.79	17.88	54.67	74.00	-19.33	Peak	
2	5460.0000	26.77	17.88	44.65	54.00	-9.35	AVG	
3	5470.0000	35.96	17.90	53.86	68.30	-14.44	Peak	
4	5501.0000	71.91	17.96	89.87	999.00	-909.13	AVG	No Limit
5 *	5503.0000	80.43	17.96	98.39	68.30	30.09	Peak	No Limit

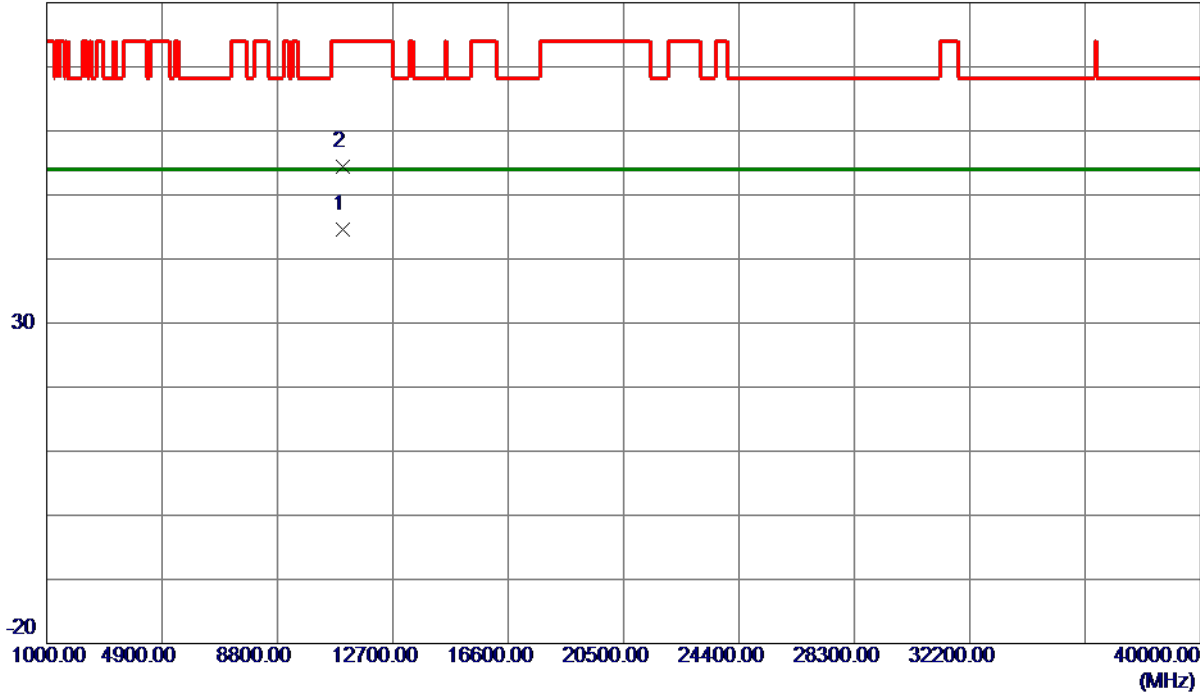
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5500 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10999.0839	28.56	15.99	44.55	54.00	-9.45	AVG	
2	11000.2920	38.44	15.99	54.43	74.00	-19.57	Peak	

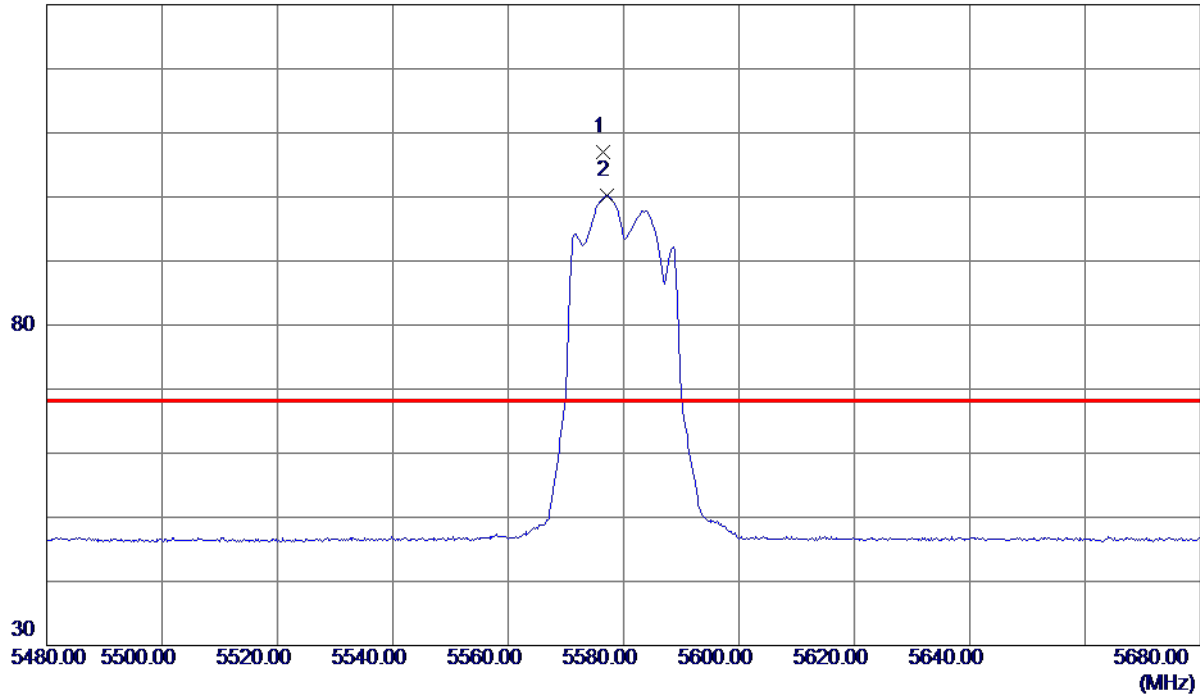
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5580 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 *	5576.4000	89.21	17.70	106.91	68.30	38.61	Peak	No Limit
2	5577.2000	82.53	17.71	100.24	999.00	-898.76	AVG	No Limit

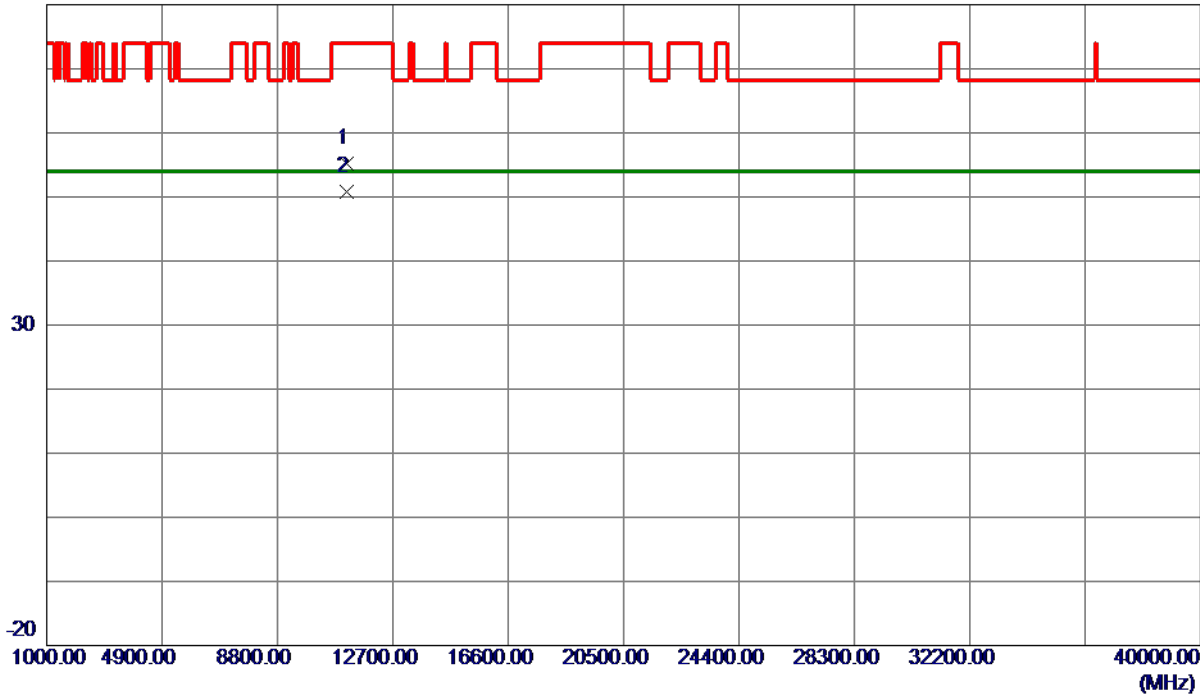
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5580 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11159.7960	38.87	16.37	55.24	74.00	-18.76	Peak	
2 *	11159.9420	34.35	16.37	50.72	54.00	-3.28	AVG	

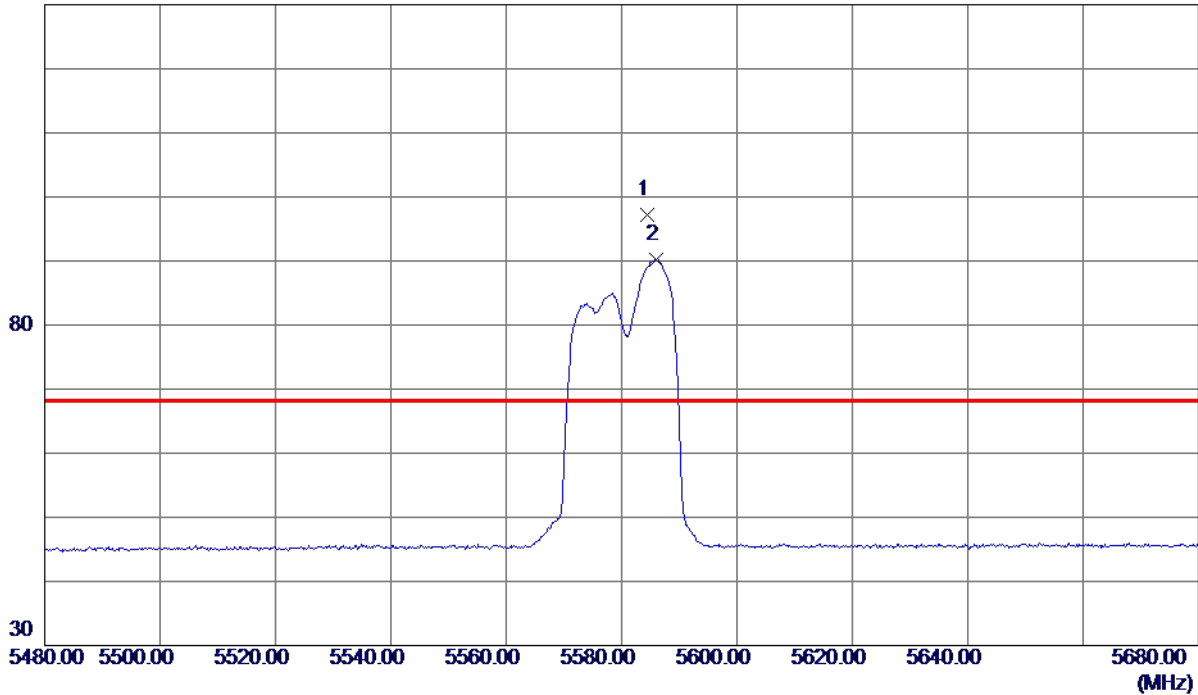
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5580 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 *	5584.4000	79.06	18.23	97.29	68.30	28.99	Peak	No Limit
2	5586.0000	71.96	18.23	90.19	999.00	-908.81	AVG	No Limit

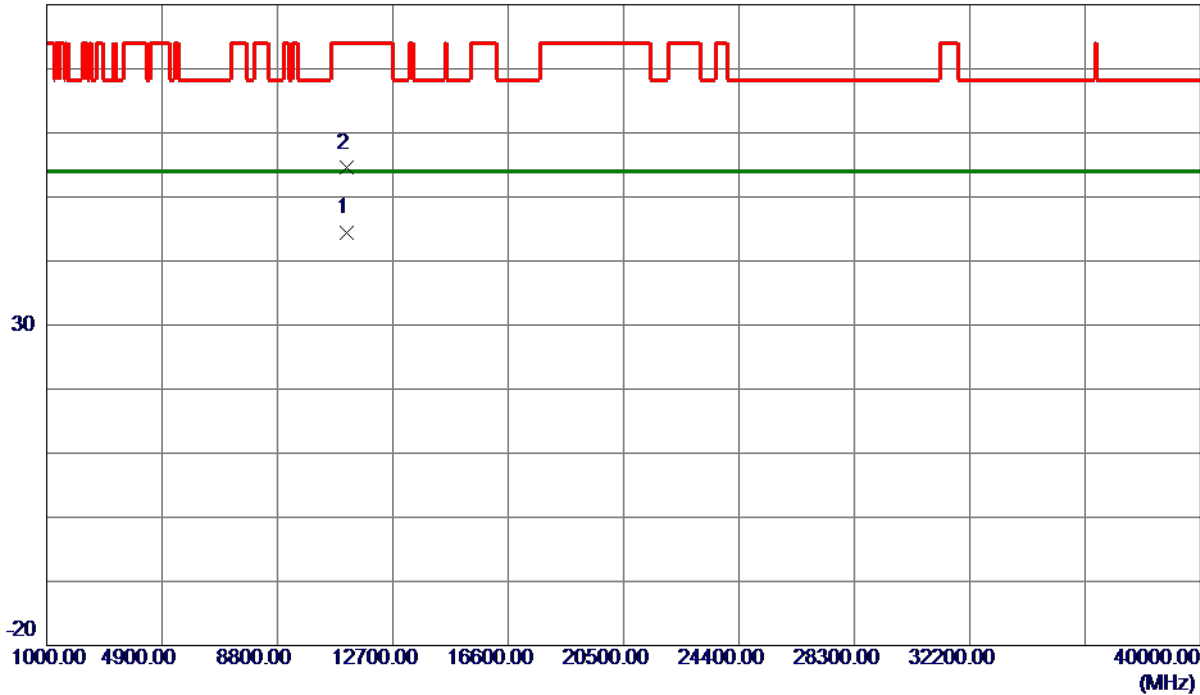
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5580 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11159.5220	28.08	16.37	44.45	54.00	-9.55	AVG	
2	11160.3400	38.13	16.37	54.50	74.00	-19.50	Peak	

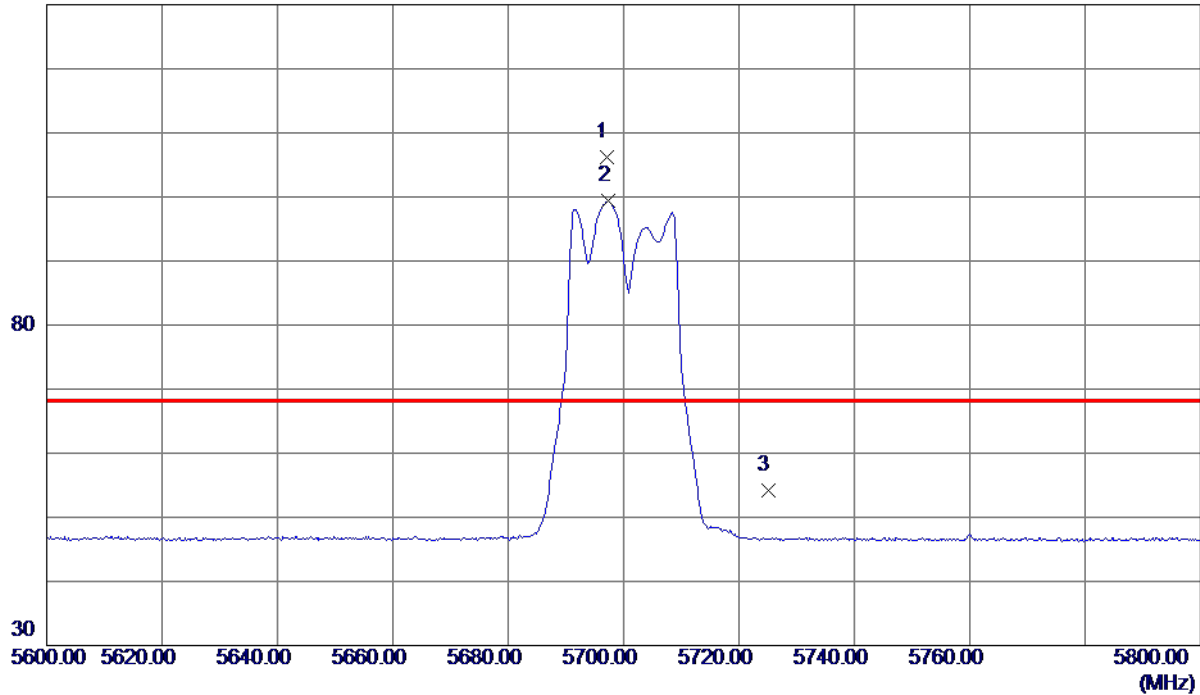
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5700 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 *	5697.0000	88.40	17.89	106.29	68.30	37.99	Peak	No Limit
2	5697.4000	81.42	17.89	99.31	999.00	-899.69	AVG	No Limit
3	5725.0000	36.28	17.94	54.22	68.30	-14.08	Peak	

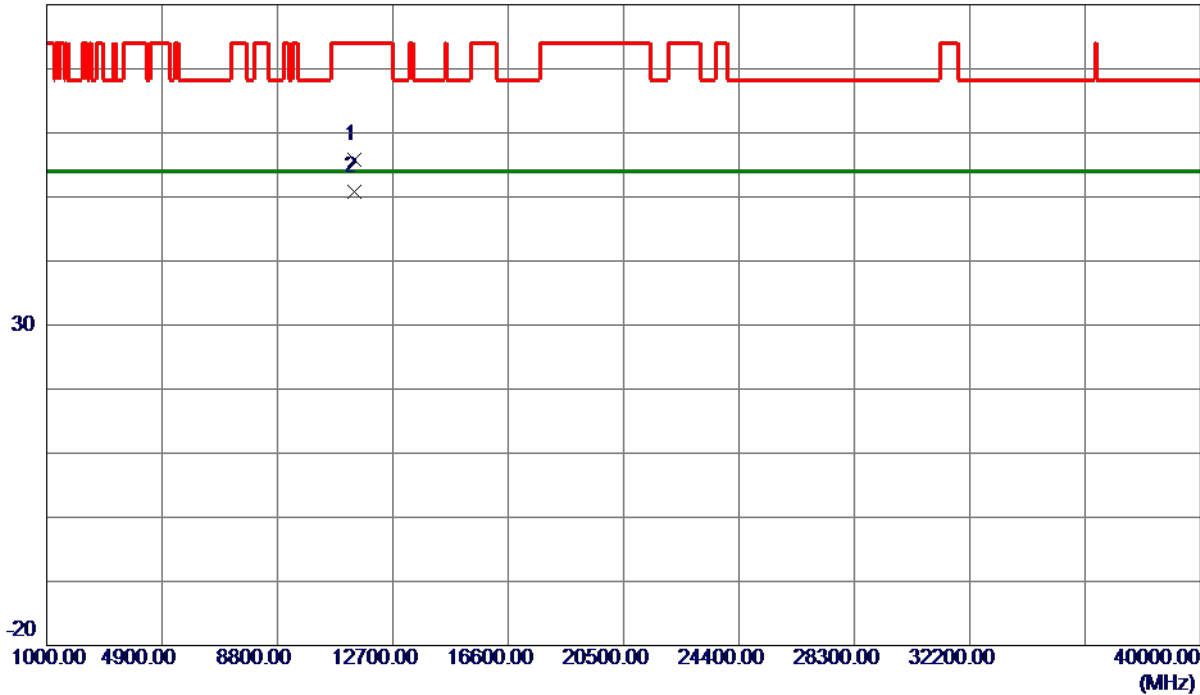
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5700 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11400.7320	38.83	16.94	55.77	74.00	-18.23	Peak	
2 *	11400.9360	33.91	16.94	50.85	54.00	-3.15	AVG	

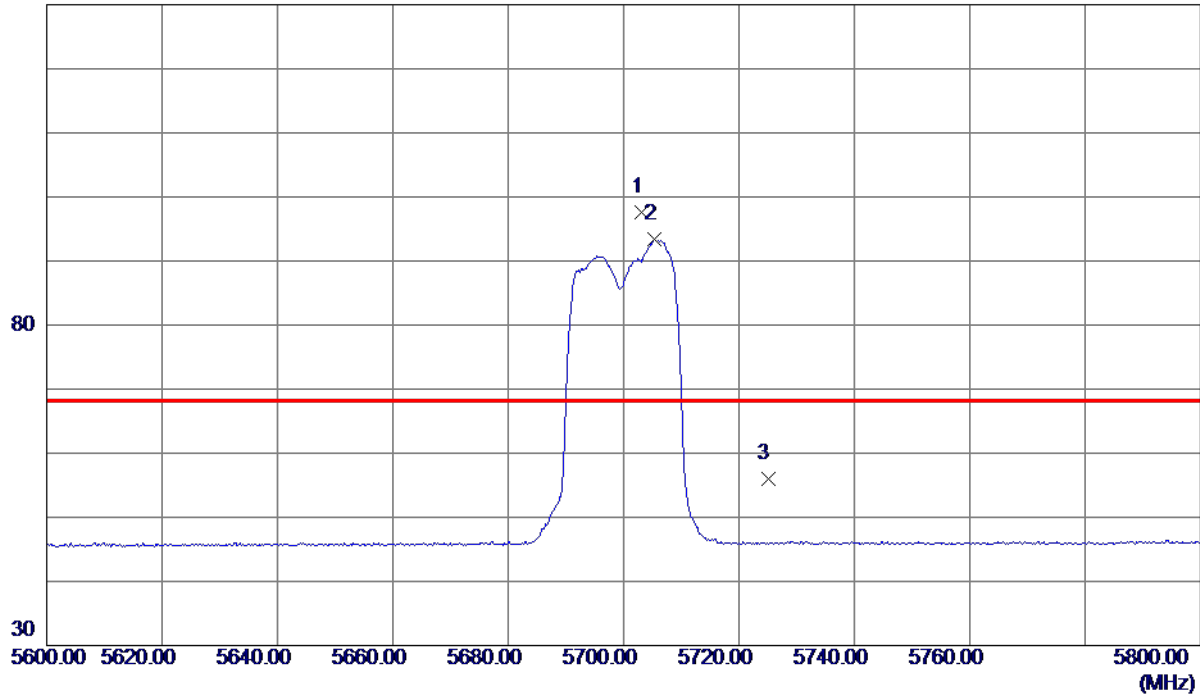
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5700 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 *	5703.2000	79.03	18.62	97.65	68.30	29.35	Peak	No Limit
2	5705.4000	74.77	18.62	93.39	999.00	-905.61	AVG	No Limit
3	5725.0000	37.37	18.69	56.06	68.30	-12.24	Peak	

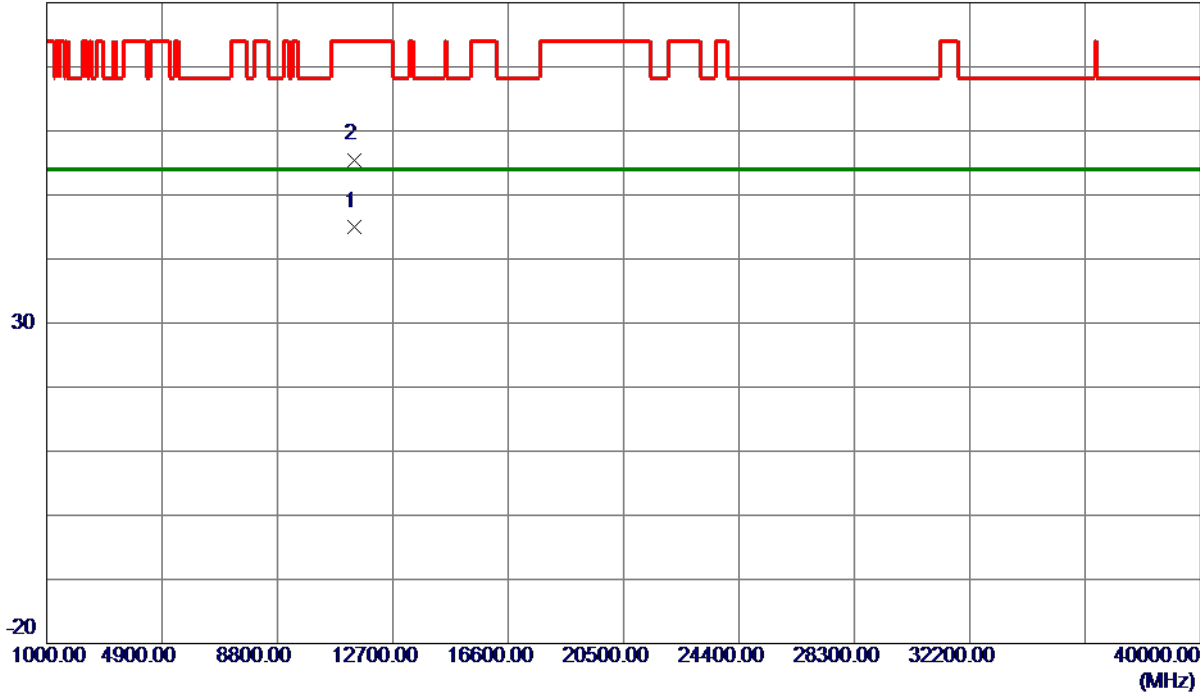
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT20) Mode 5700 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11399.5759	28.07	16.94	45.01	54.00	-8.99	AVG	
2	11400.1380	38.56	16.94	55.50	74.00	-18.50	Peak	

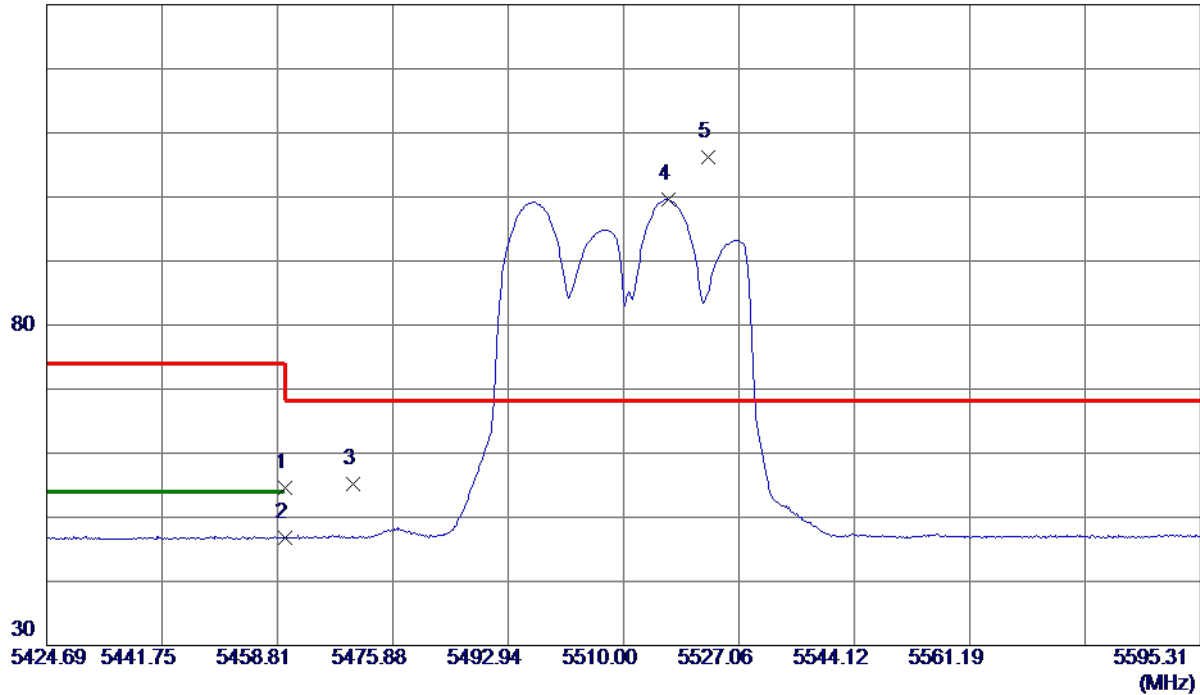
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5510 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	5460.0000	37.02	17.54	54.56	74.00	-19.44	Peak	
2	5460.0000	29.35	17.54	46.89	54.00	-7.11	AVG	
3	5470.0000	37.74	17.55	55.29	68.30	-13.01	Peak	
4	5516.6540	82.03	17.61	99.64	999.00	-899.36	AVG	No Limit
5 *	5522.4550	88.50	17.62	106.12	68.30	37.82	Peak	No Limit

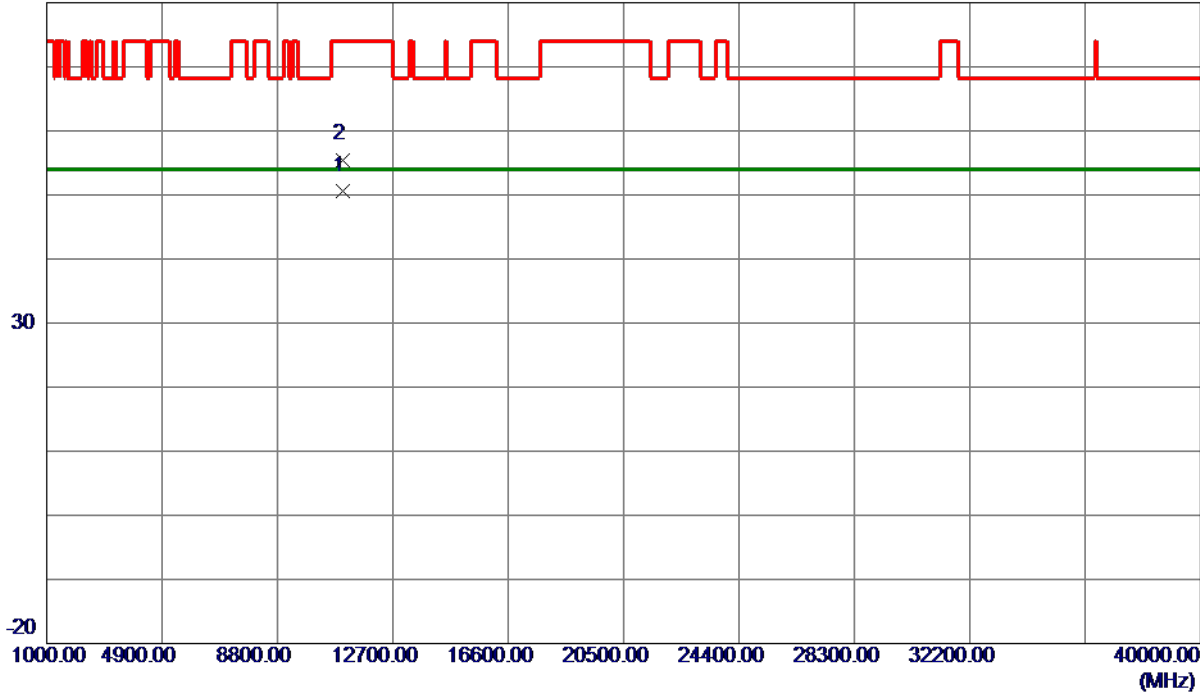
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5510 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11019.9240	34.61	16.04	50.65	54.00	-3.35	AVG	
2	11020.0660	39.46	16.04	55.50	74.00	-18.50	Peak	

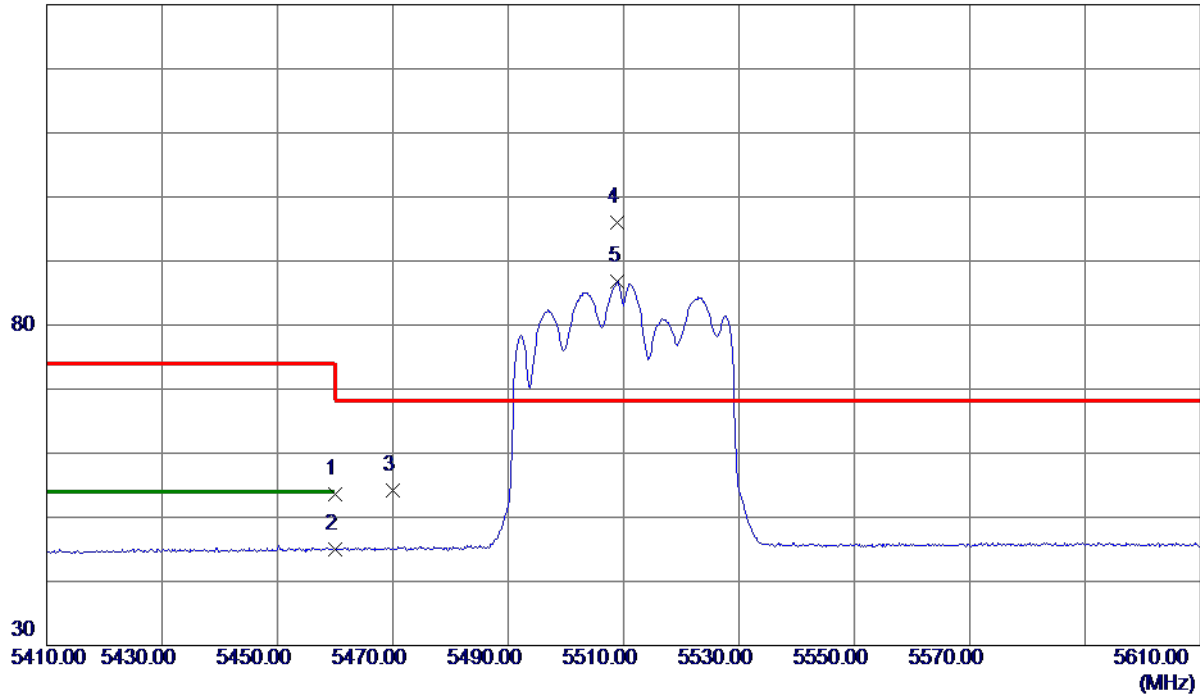
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5510 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	5460.0000	35.77	17.88	53.65	74.00	-20.35	Peak	
2	5460.0000	27.04	17.88	44.92	54.00	-9.08	AVG	
3	5470.0000	36.29	17.90	54.19	68.30	-14.11	Peak	
4 *	5508.8000	78.02	17.98	96.00	68.30	27.70	Peak	No Limit
5	5509.0000	68.77	17.98	86.75	999.00	-912.25	AVG	No Limit

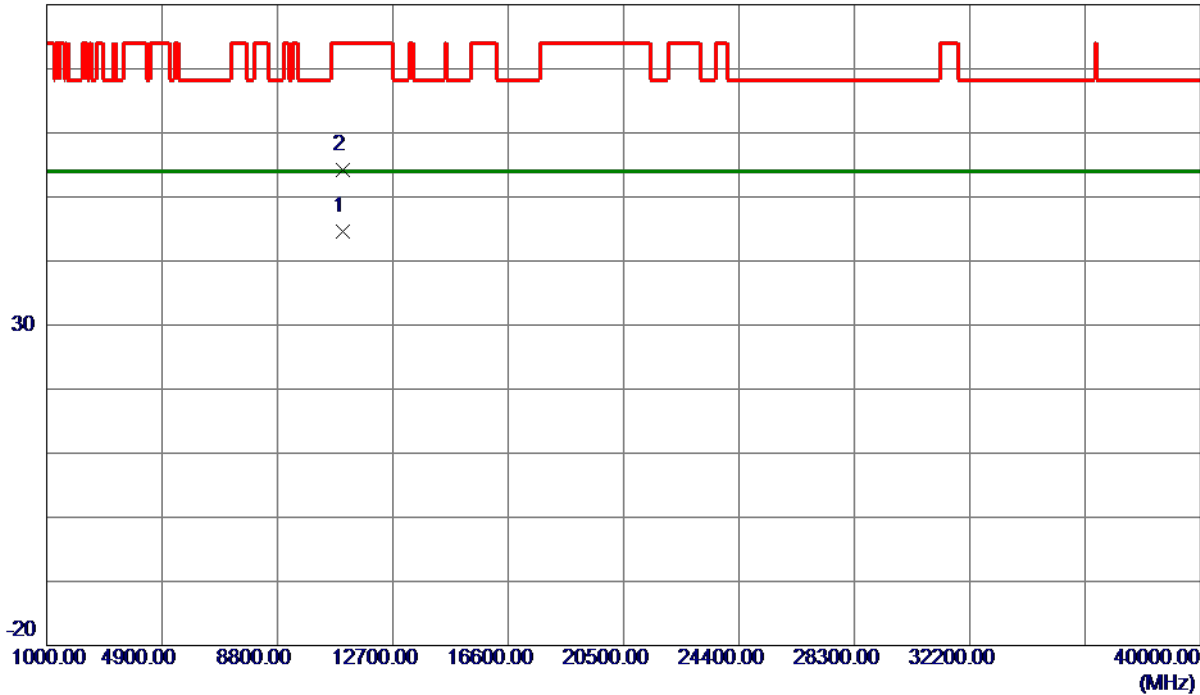
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5510 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11020.4760	28.49	16.04	44.53	54.00	-9.47	AVG	
2	11020.5300	38.15	16.04	54.19	74.00	-19.81	Peak	

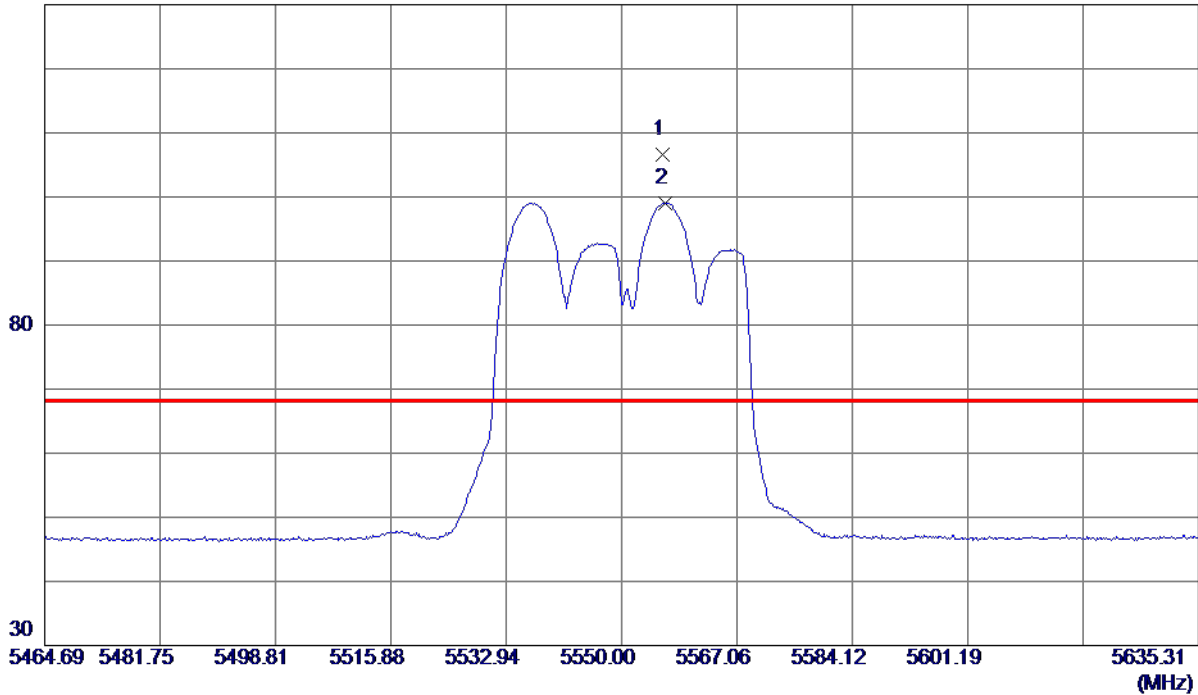
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5550 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 *	5556.1420	88.99	17.67	106.66	68.30	38.36	Peak	No Limit
2	5556.4840	81.39	17.67	99.06	999.00	-899.94	AVG	No Limit

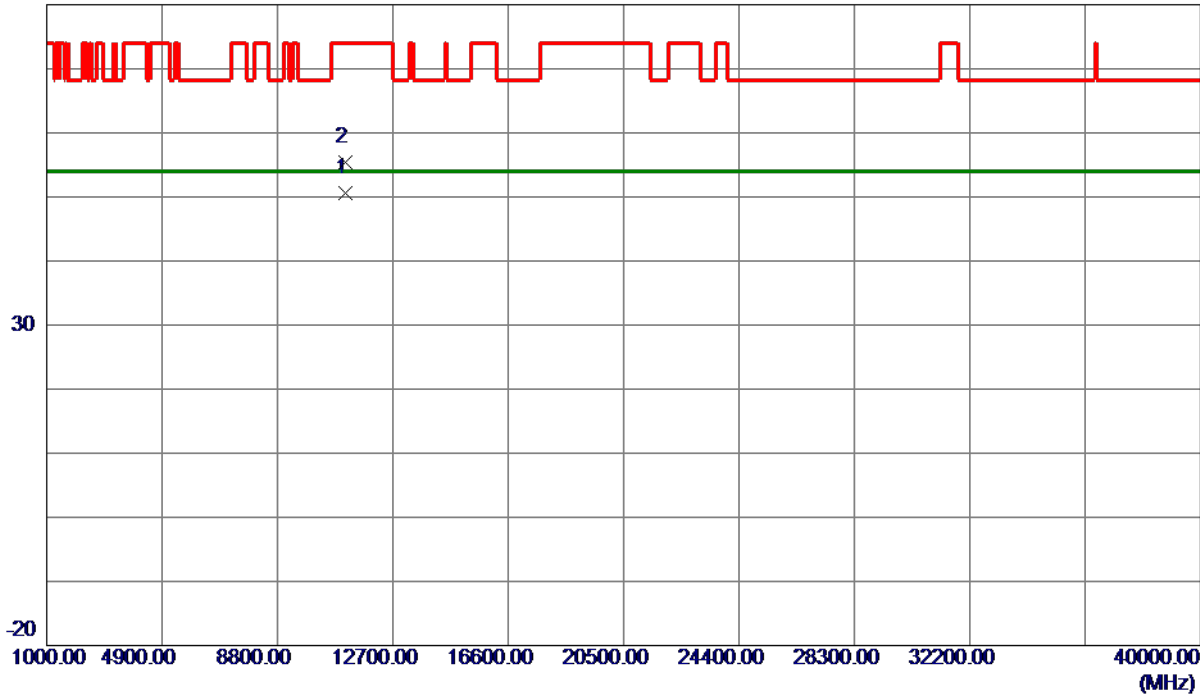
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5550 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11099.9000	34.40	16.23	50.63	54.00	-3.37	AVG	
2	11099.9240	39.11	16.23	55.34	74.00	-18.66	Peak	

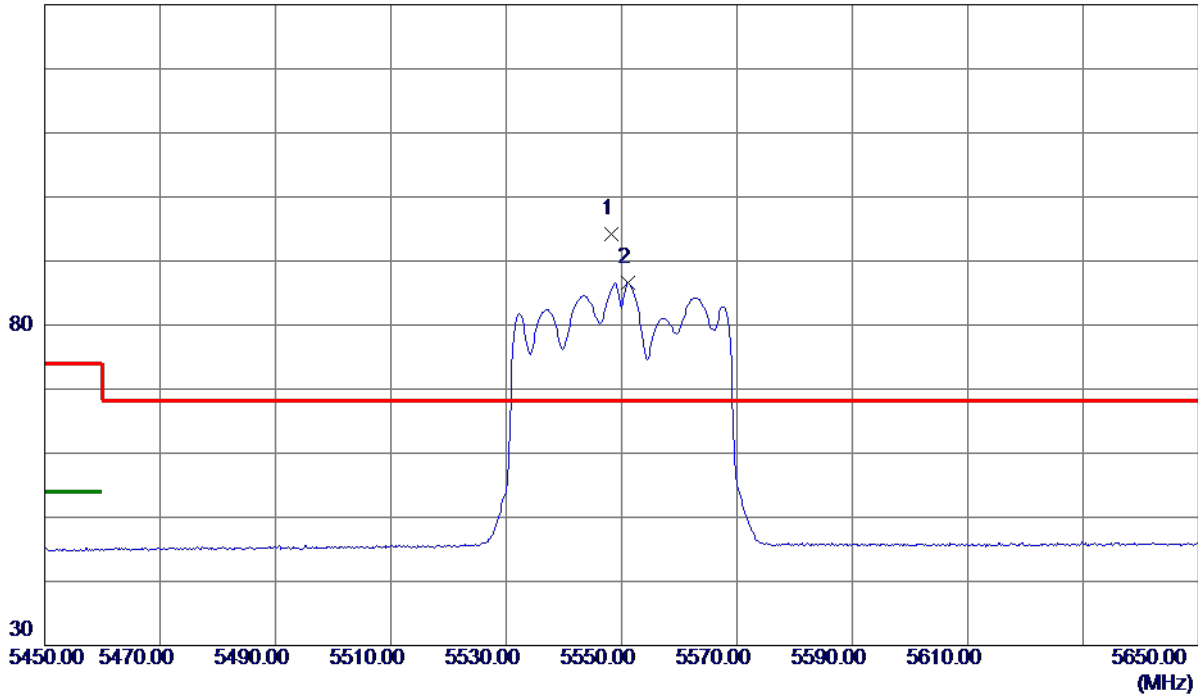
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5550 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 *	5548.2000	76.06	18.11	94.17	68.30	25.87	Peak	No Limit
2	5551.2000	68.46	18.12	86.58	999.00	-912.42	AVG	No Limit

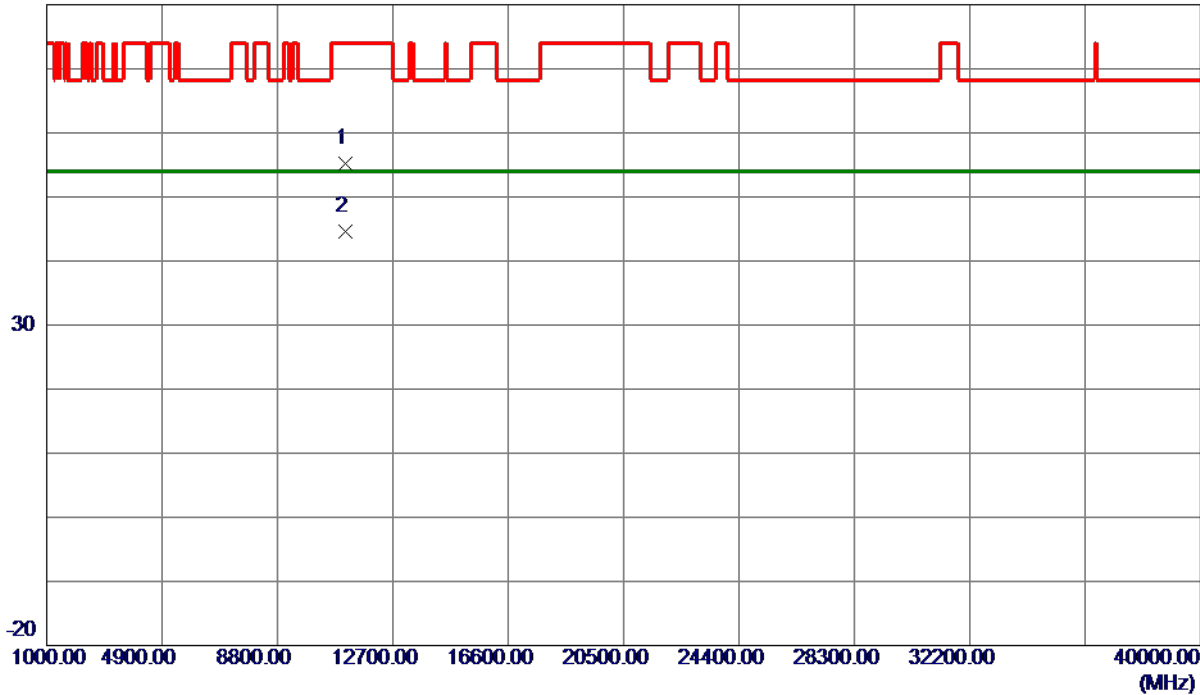
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5550 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11100.5580	38.88	16.23	55.11	74.00	-18.89	Peak	
2 *	11100.8179	28.42	16.23	44.65	54.00	-9.35	AVG	

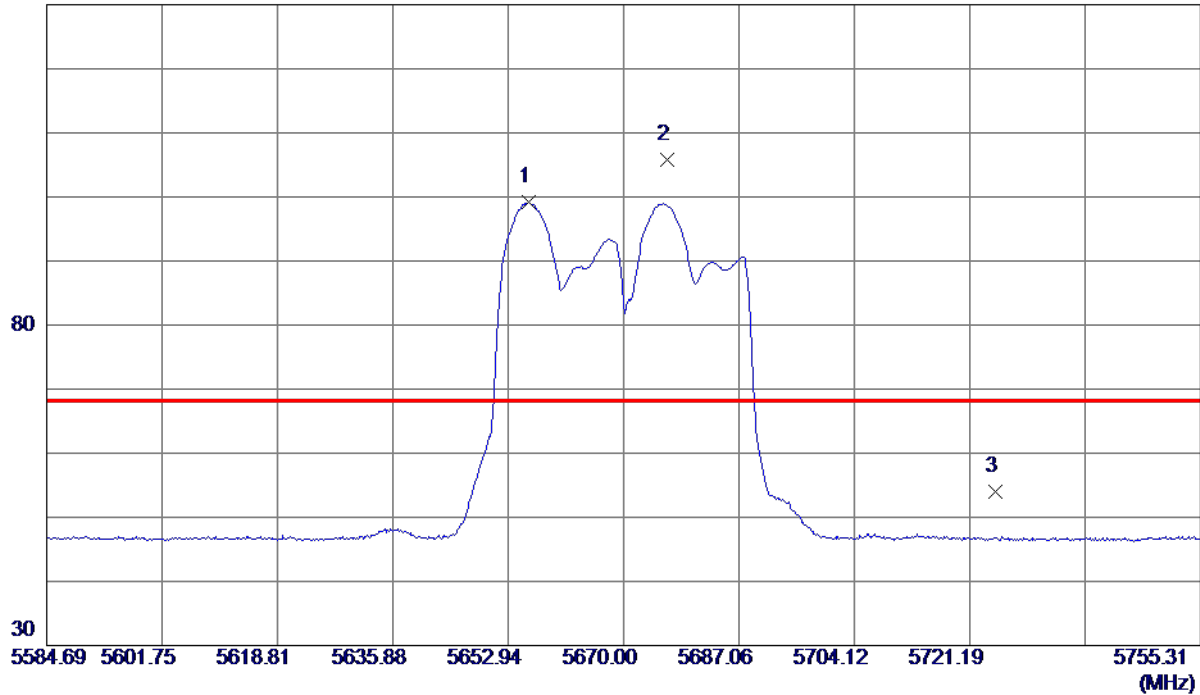
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5670 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	5656.0090	81.28	17.83	99.11	999.00	-899.89	AVG	No Limit
2 *	5676.4840	87.94	17.86	105.80	68.30	37.50	Peak	No Limit
3	5725.0000	36.10	17.94	54.04	68.30	-14.26	Peak	

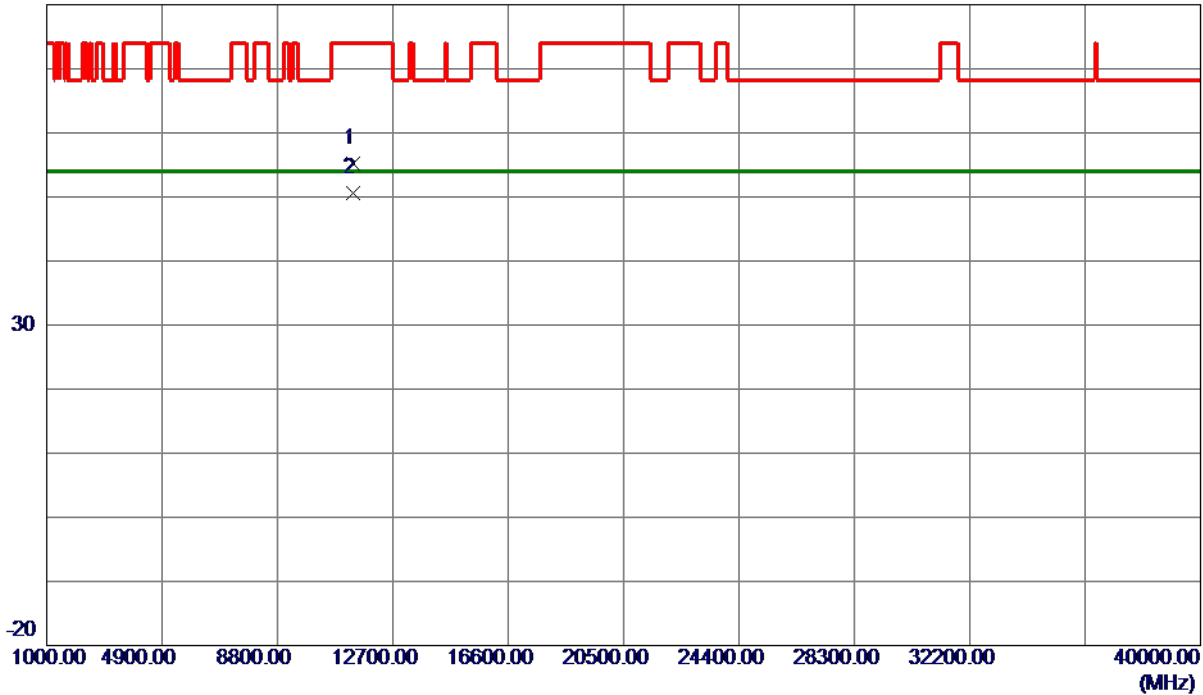
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5670 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11339.8240	38.41	16.80	55.21	74.00	-18.79	Peak	
2 *	11339.9100	33.86	16.80	50.66	54.00	-3.34	AVG	

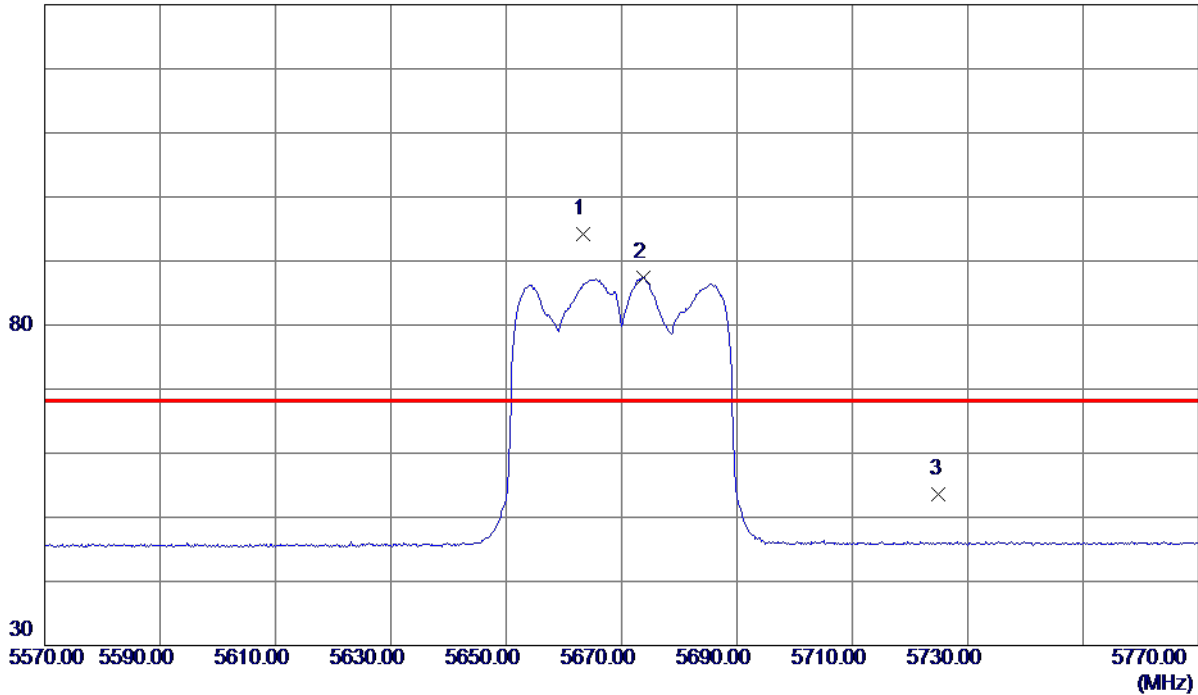
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5670 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 *	5663.4000	75.68	18.49	94.17	68.30	25.87	Peak	No Limit
2	5673.8000	68.85	18.52	87.37	999.00	-911.63	AVG	No Limit
3	5725.0000	34.82	18.69	53.51	68.30	-14.79	Peak	

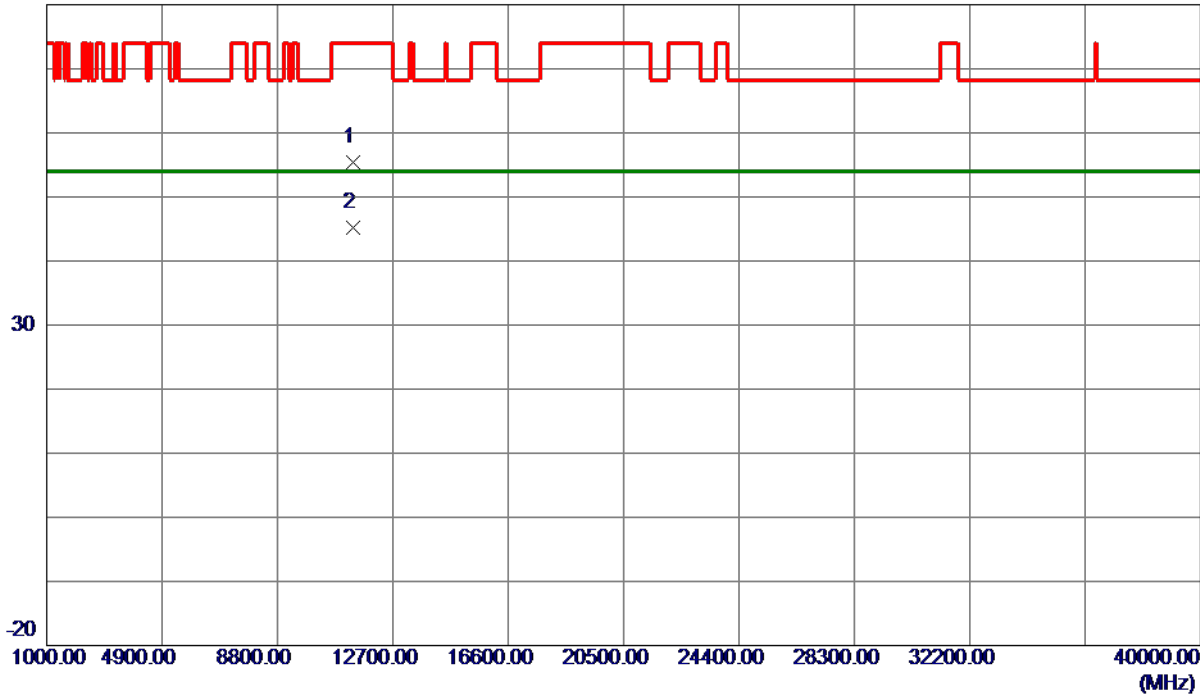
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT40) Mode 5670 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11339.4440	38.55	16.80	55.35	74.00	-18.65	Peak	
2 *	11339.4440	28.37	16.80	45.17	54.00	-8.83	AVG	

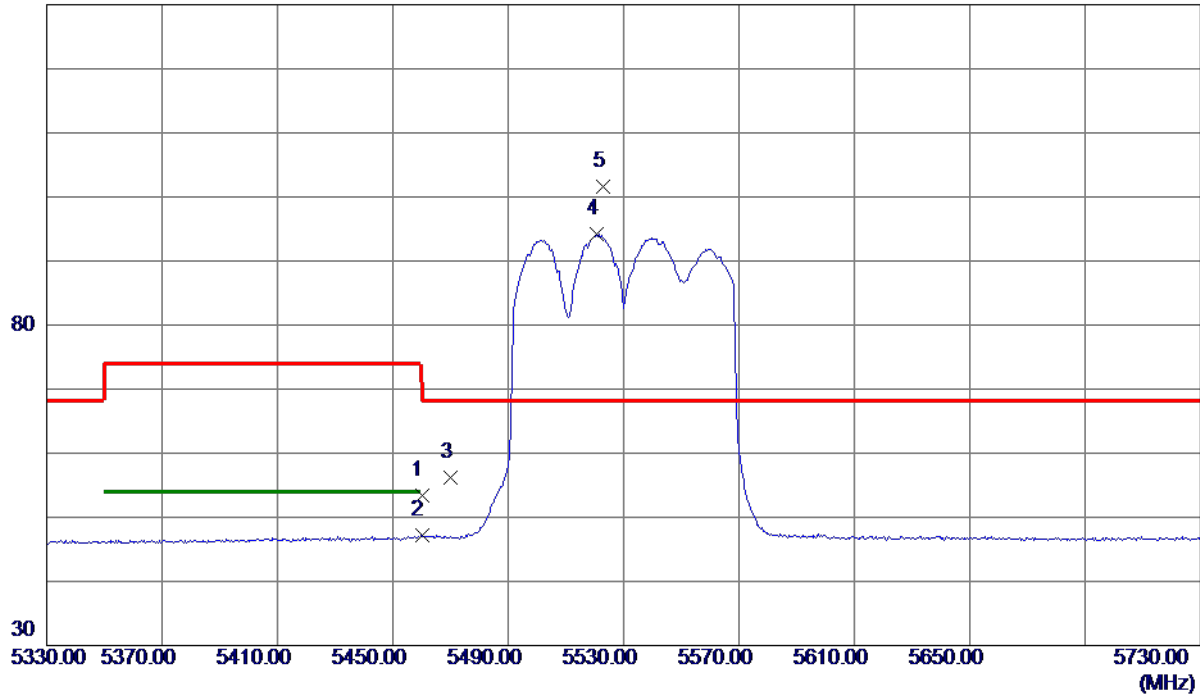
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 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	5460.0000	35.94	17.54	53.48	74.00	-20.52	Peak	
2	5460.0000	29.58	17.54	47.12	54.00	-6.88	AVG	
3	5470.0000	38.73	17.55	56.28	68.30	-12.02	Peak	
4	5520.8000	76.63	17.62	94.25	999.00	-904.75	AVG	No Limit
5 *	5522.8000	84.07	17.62	101.69	68.30	33.39	Peak	No Limit

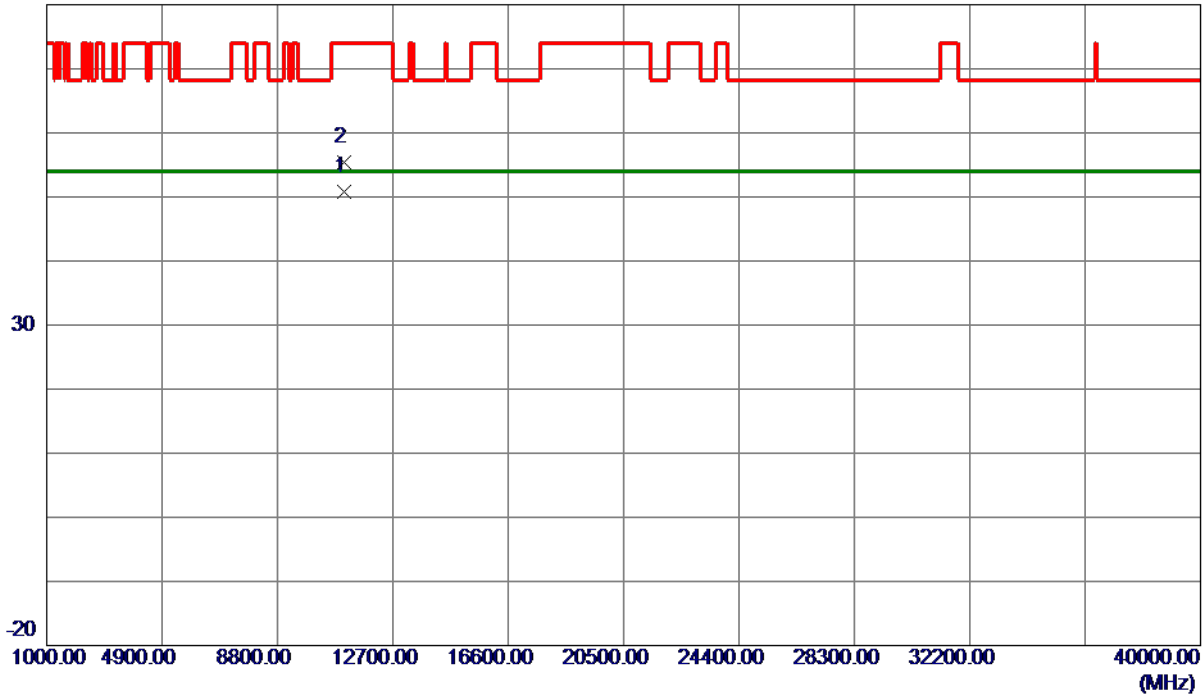
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11059.8780	34.63	16.13	50.76	54.00	-3.24	AVG	
2	11060.0759	39.26	16.13	55.39	74.00	-18.61	Peak	

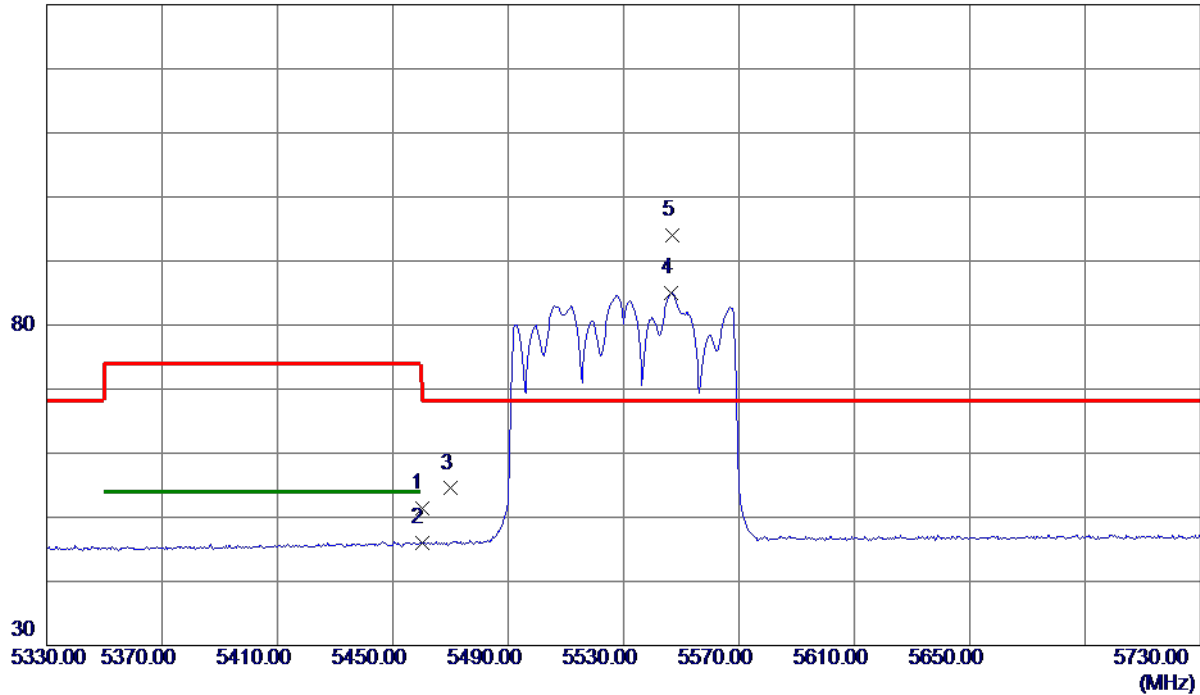
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 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	5460.0000	33.57	17.88	51.45	74.00	-22.55	Peak	
2	5460.0000	28.05	17.88	45.93	54.00	-8.07	AVG	
3	5470.0000	36.60	17.90	54.50	68.30	-13.80	Peak	
4	5546.4000	66.96	18.11	85.07	999.00	-913.93	AVG	No Limit
5 *	5546.8000	75.96	18.11	94.07	68.30	25.77	Peak	No Limit

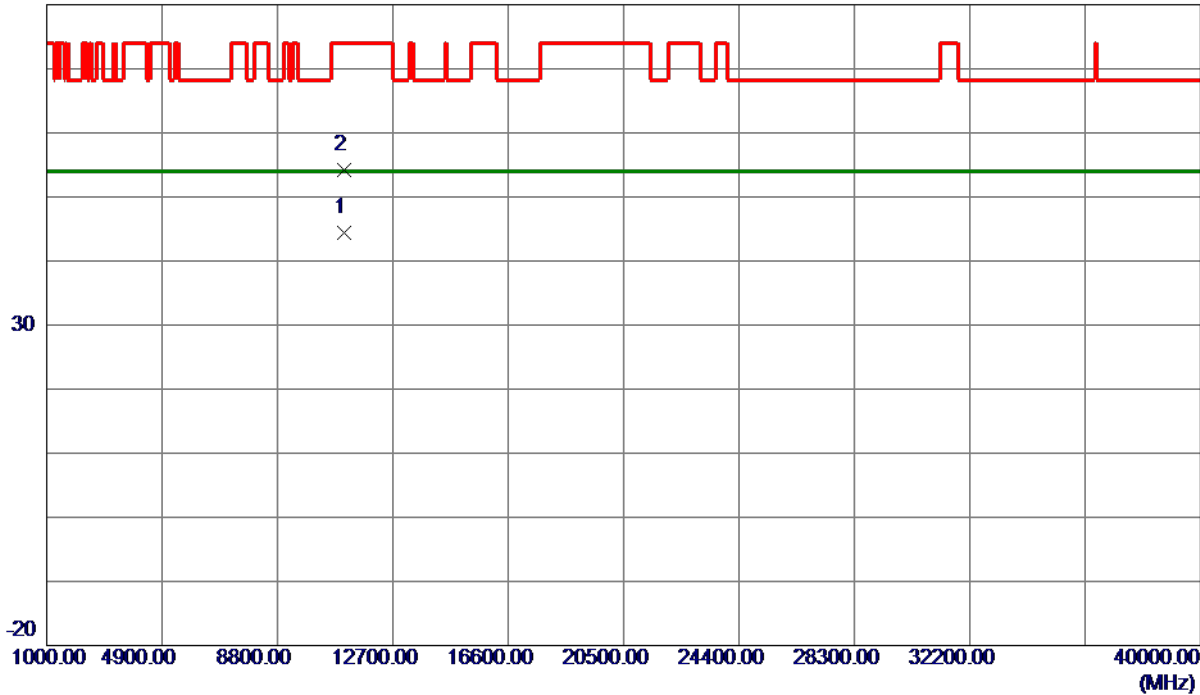
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5530 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11059.9020	28.23	16.13	44.36	54.00	-9.64	AVG	
2	11060.1660	38.05	16.13	54.18	74.00	-19.82	Peak	

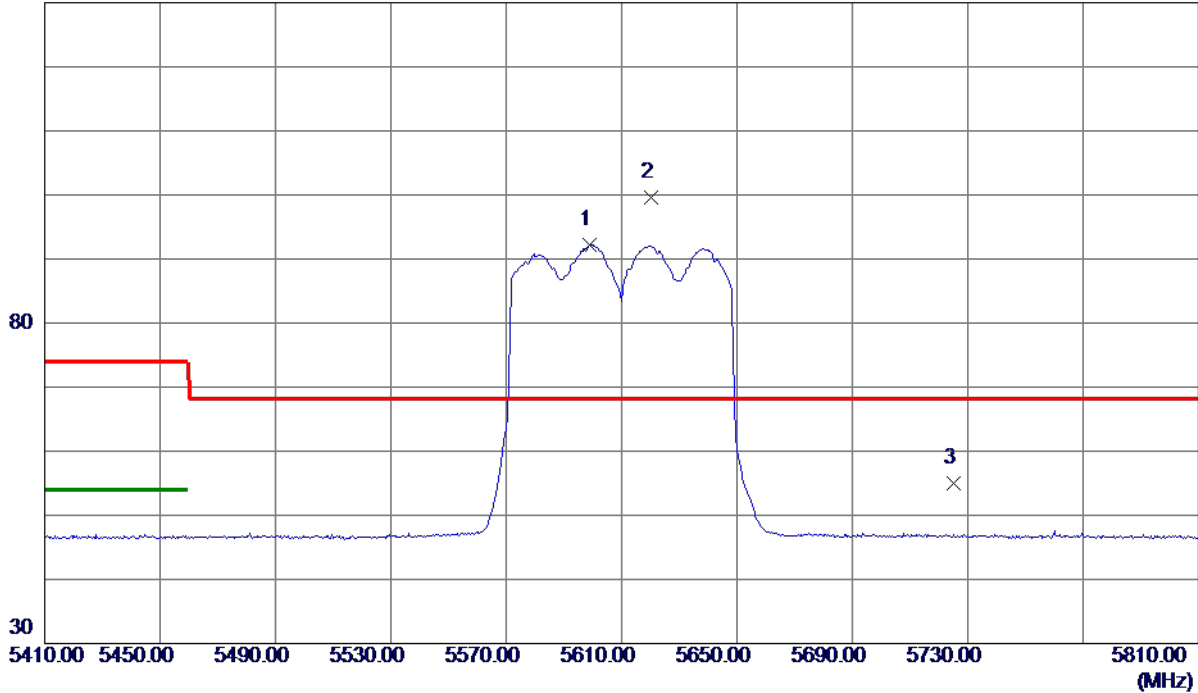
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5610 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	5598.8000	74.49	17.74	92.23	999.00	-906.77	AVG	No Limit
2 *	5620.4000	81.81	17.77	99.58	68.30	31.28	Peak	No Limit
3	5725.0000	37.15	17.94	55.09	68.30	-13.21	Peak	

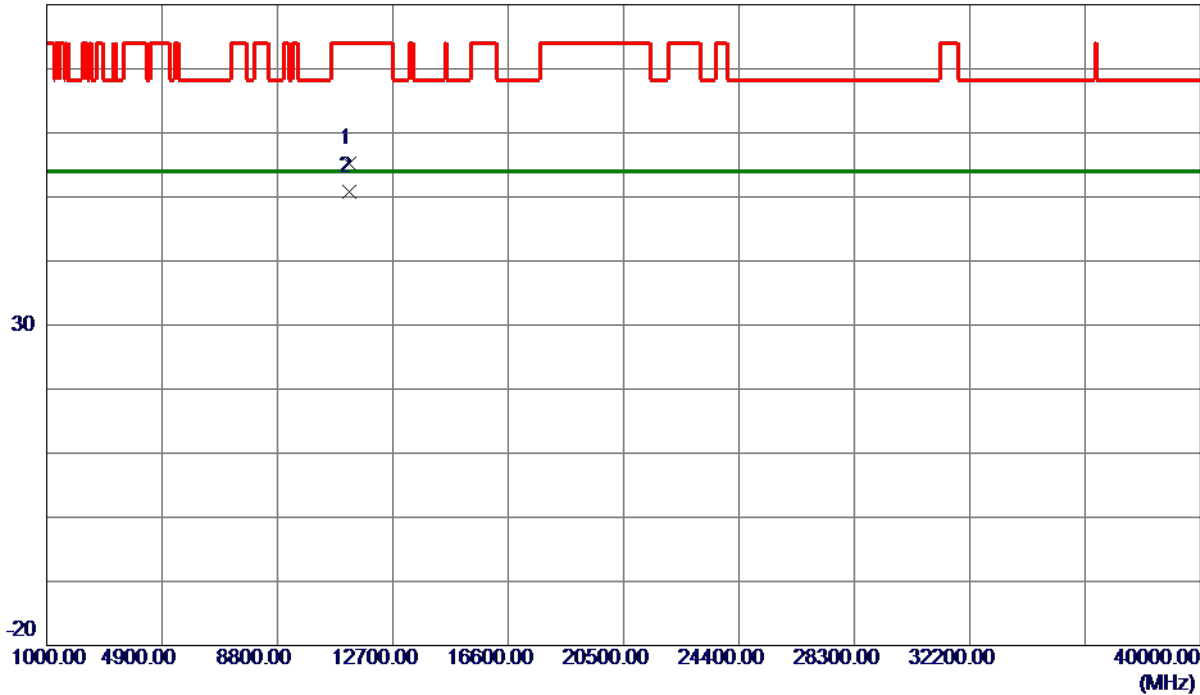
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5610 MHz

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11219.7539	38.73	16.51	55.24	74.00	-18.76	Peak	
2 *	11219.9240	34.22	16.51	50.73	54.00	-3.27	AVG	

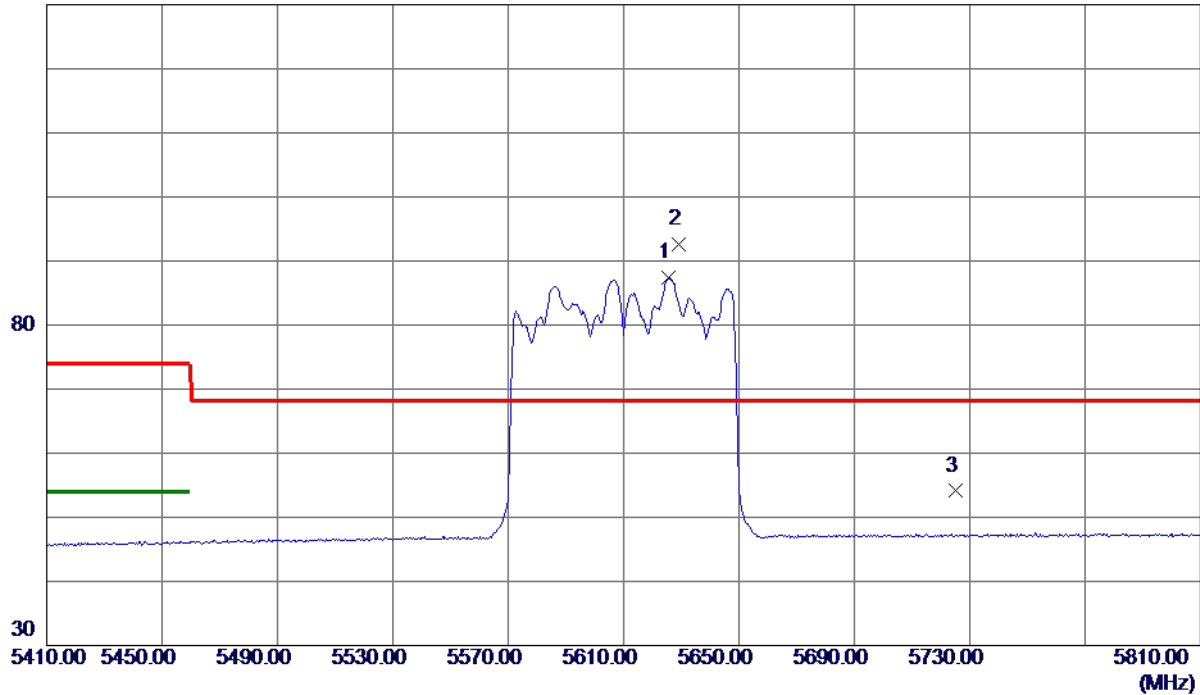
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5610 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	5625.6000	68.98	18.36	87.34	999.00	-911.66	AVG	No Limit
2 *	5629.2000	74.25	18.37	92.62	68.30	24.32	Peak	No Limit
3	5725.0000	35.41	18.69	54.10	68.30	-14.20	Peak	

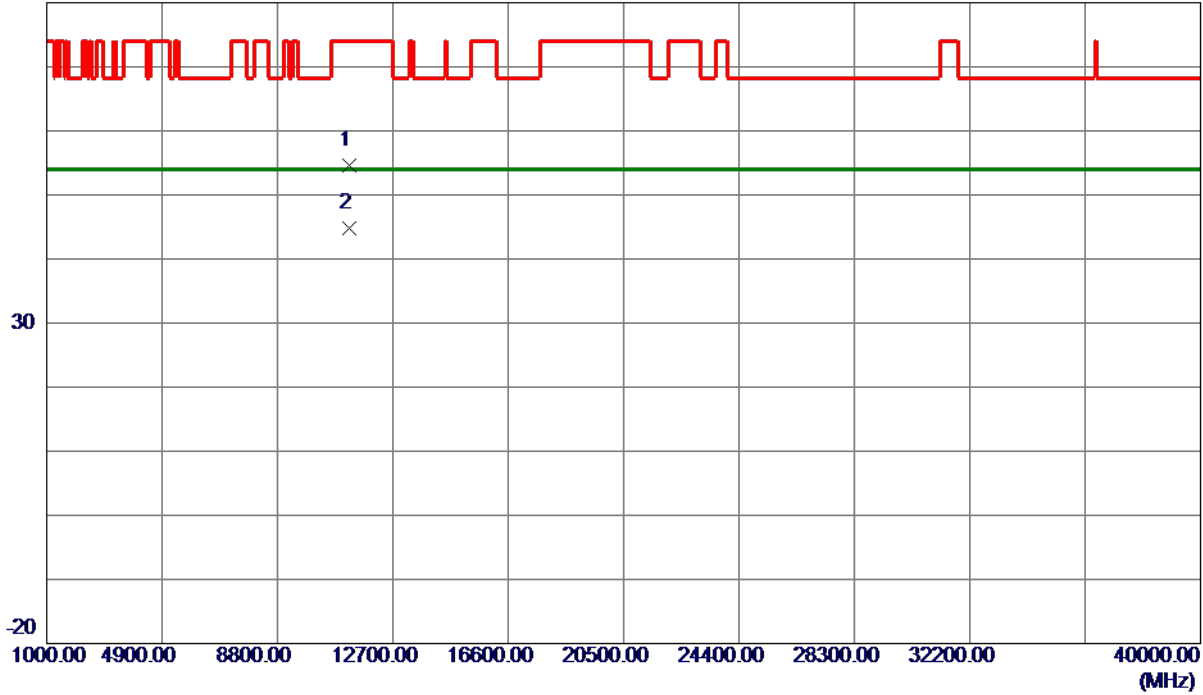
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-2C_TX AC (VHT80) Mode 5610 MHz

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11219.8740	38.08	16.51	54.59	74.00	-19.41	Peak	
2 *	11220.7140	28.21	16.52	44.73	54.00	-9.27	AVG	

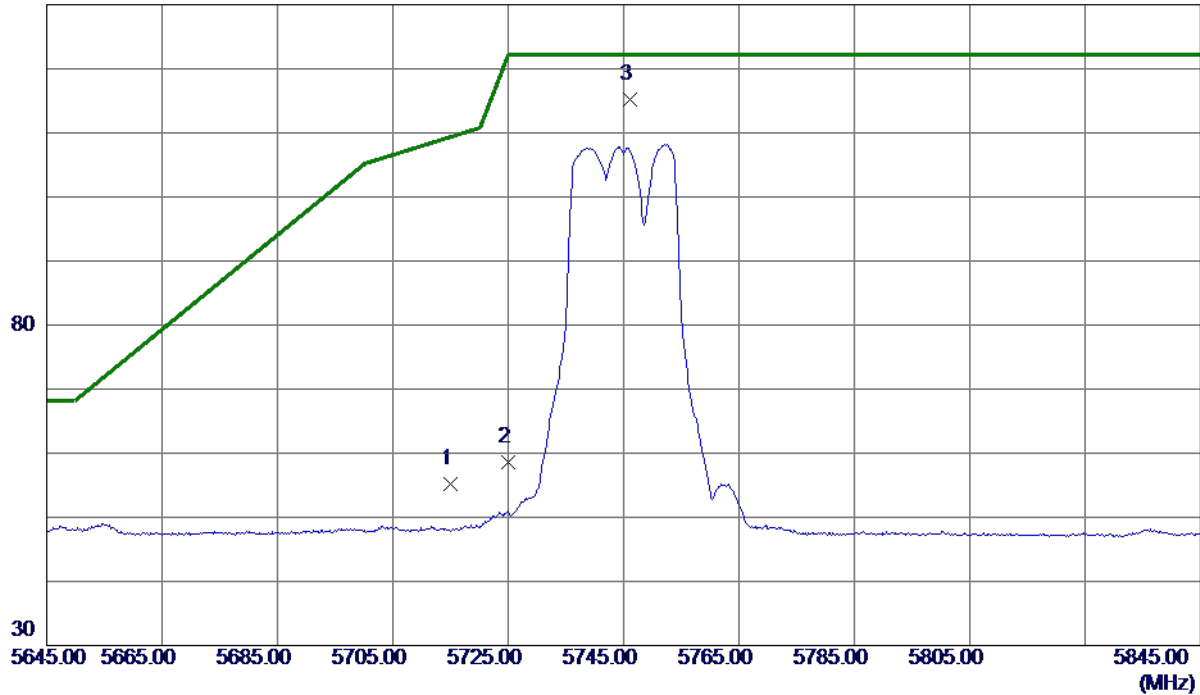
REMARKS:

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

Orthogonal Axis	X
Test Mode	UNII-3_TX 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	37.24	17.92	55.16	109.40	-54.24	Peak	
2	5725.0000	40.66	17.94	58.60	122.20	-63.60	Peak	
3 *	5746.2000	97.21	17.97	115.18	122.20	-7.02	Peak	No Limit

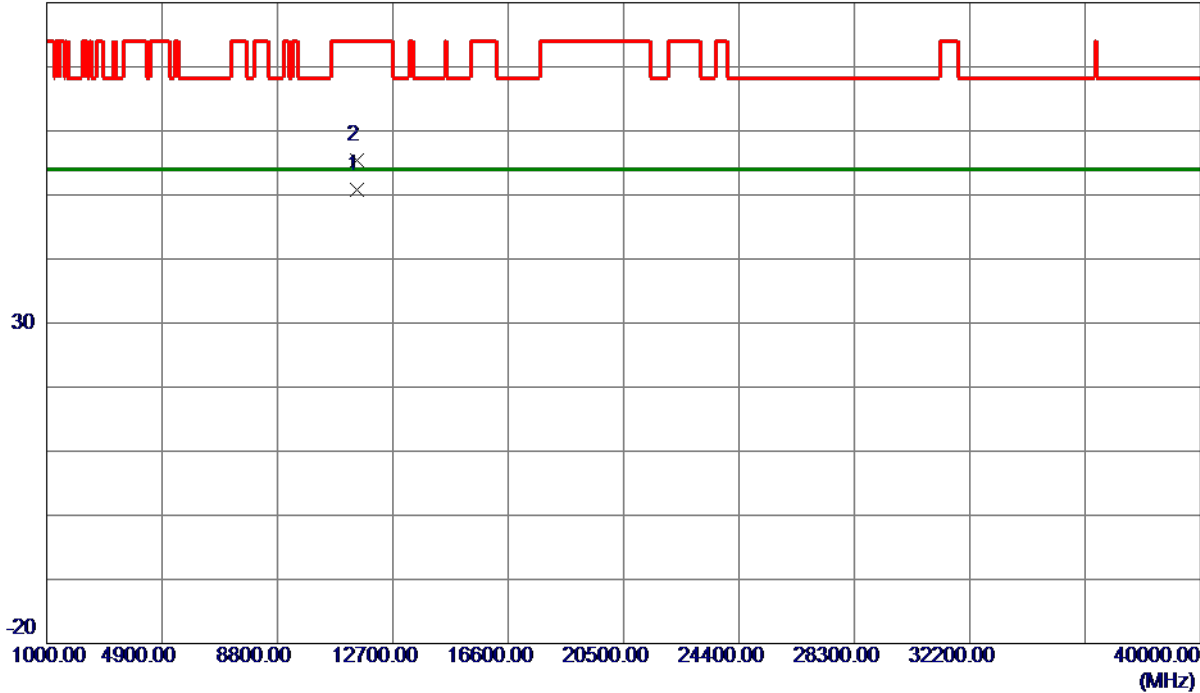
REMARKS:

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

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

Vertical

80 dBuV/m



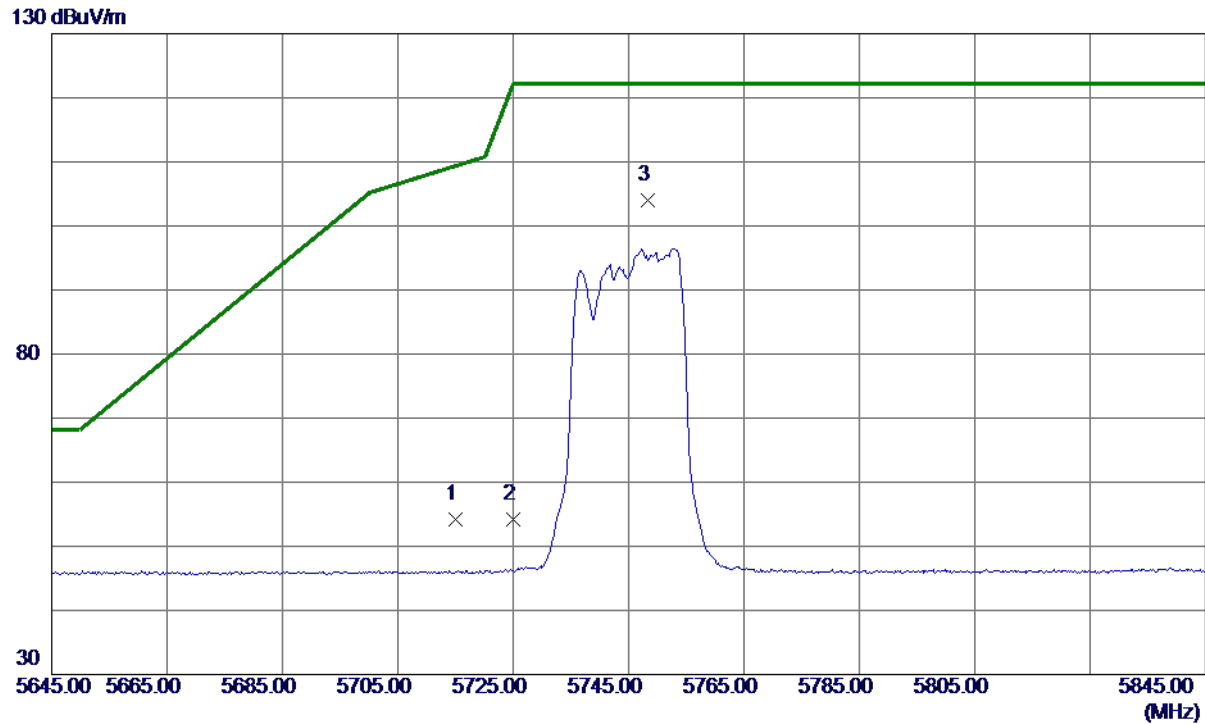
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11489.9380	33.64	17.16	50.80	54.00	-3.20	AVG	
2	11489.9500	38.24	17.16	55.40	74.00	-18.60	Peak	

REMARKS:

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	35.46	18.65	54.11	109.40	-55.29	Peak	
2	5725.0000	35.57	18.69	54.26	122.20	-67.94	Peak	
3 *	5748.4000	85.18	18.76	103.94	122.20	-18.26	Peak	No Limit

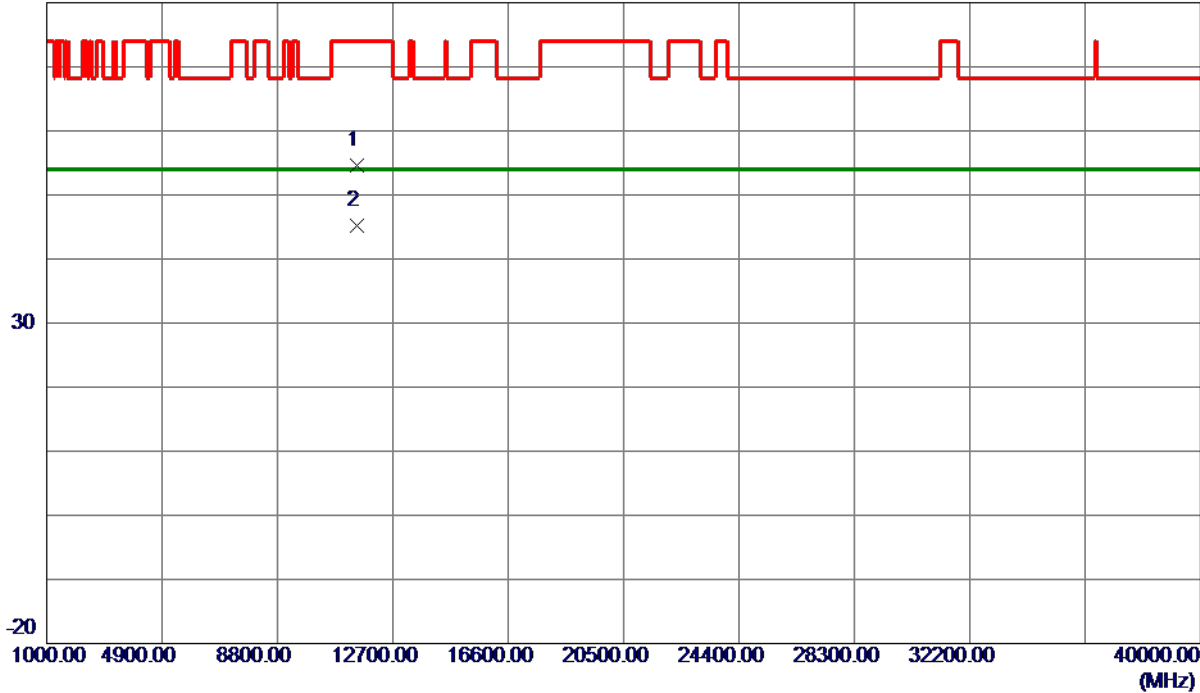
REMARKS:

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

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

Horizontal

80 dBuV/m



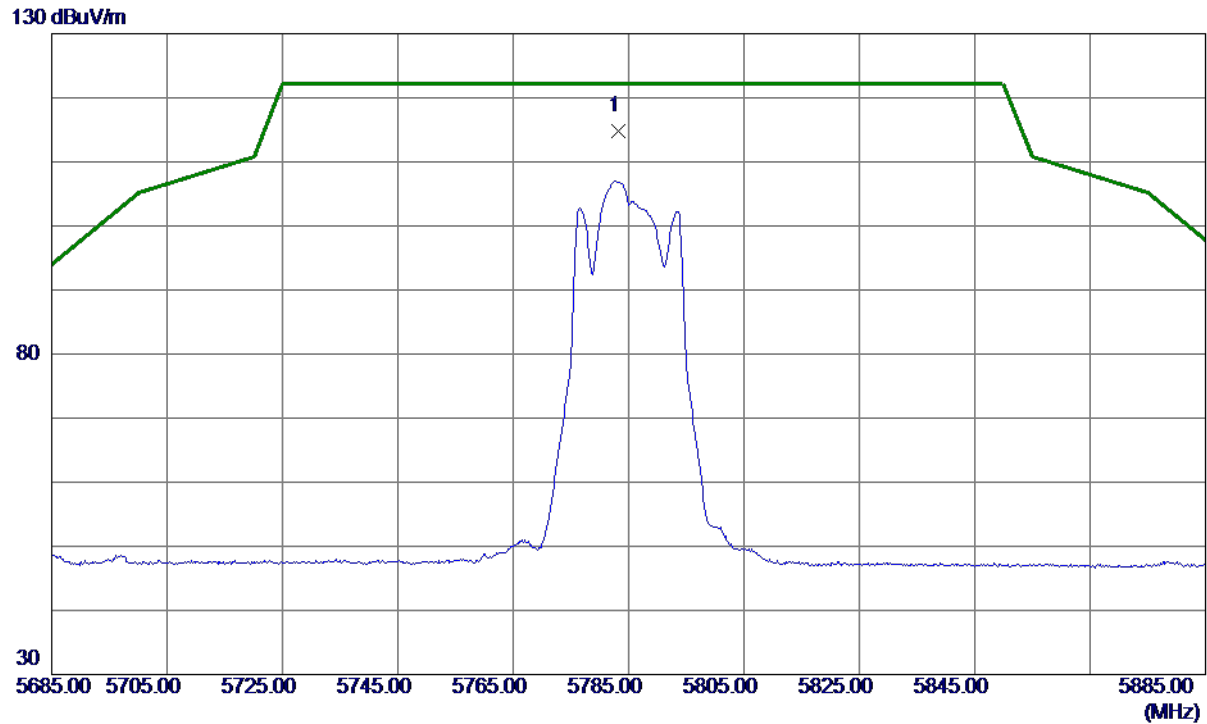
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11489.2660	37.38	17.15	54.53	74.00	-19.47	Peak	
2 *	11490.7040	28.06	17.16	45.22	54.00	-8.78	AVG	

REMARKS:

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

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

Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5783.2000	96.73	18.03	114.76	122.20	-7.44	Peak	No Limit

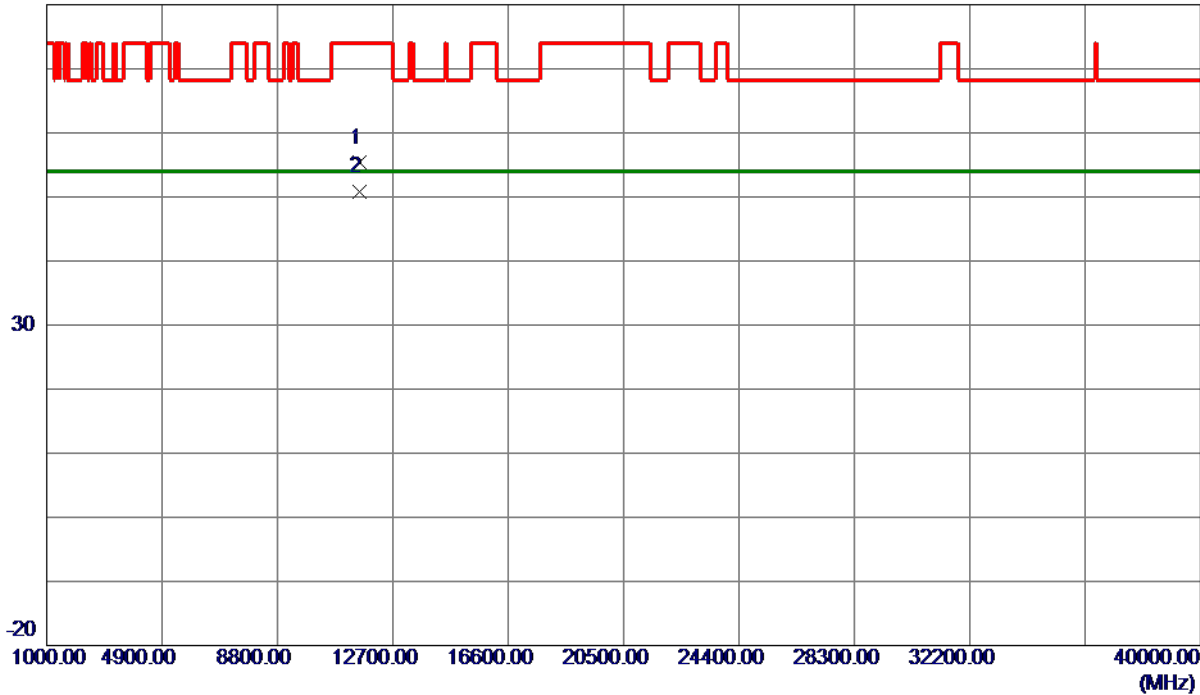
REMARKS:

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

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

Vertical

80 dBuV/m



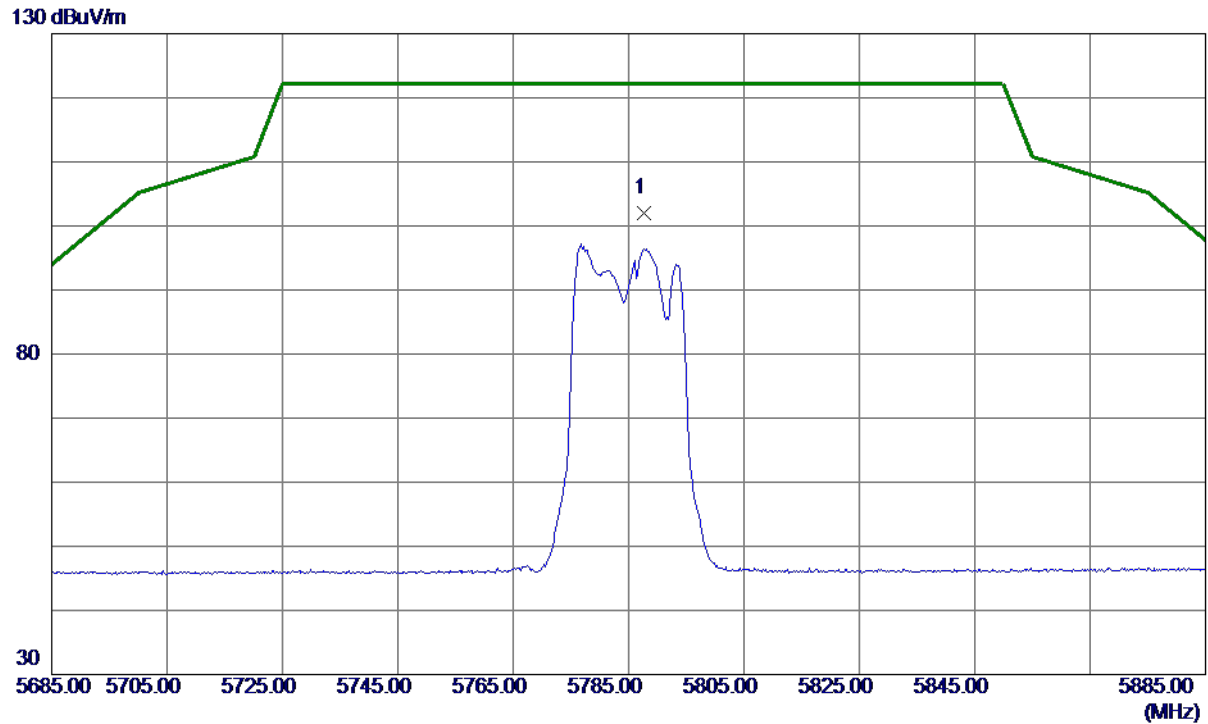
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11569.8339	38.10	17.20	55.30	74.00	-18.70	Peak	
2 *	11569.9760	33.52	17.20	50.72	54.00	-3.28	AVG	

REMARKS:

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

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5787.6000	83.17	18.89	102.06	122.20	-20.14	Peak	No Limit

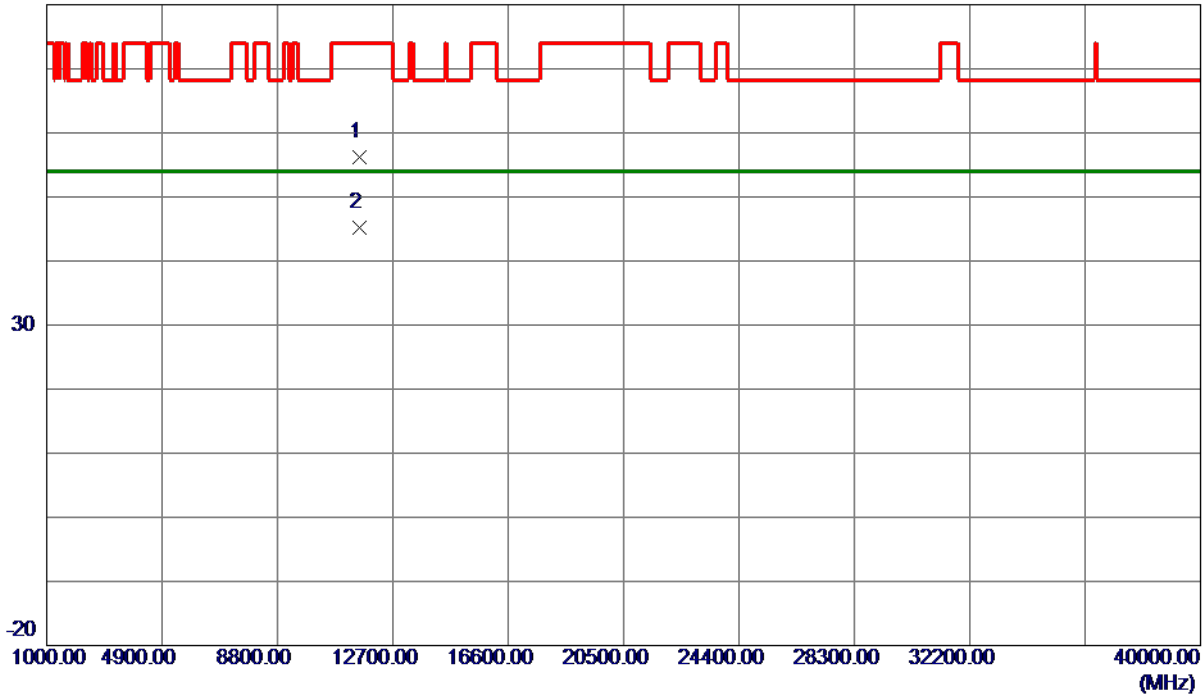
REMARKS:

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

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

Horizontal

80 dBuV/m



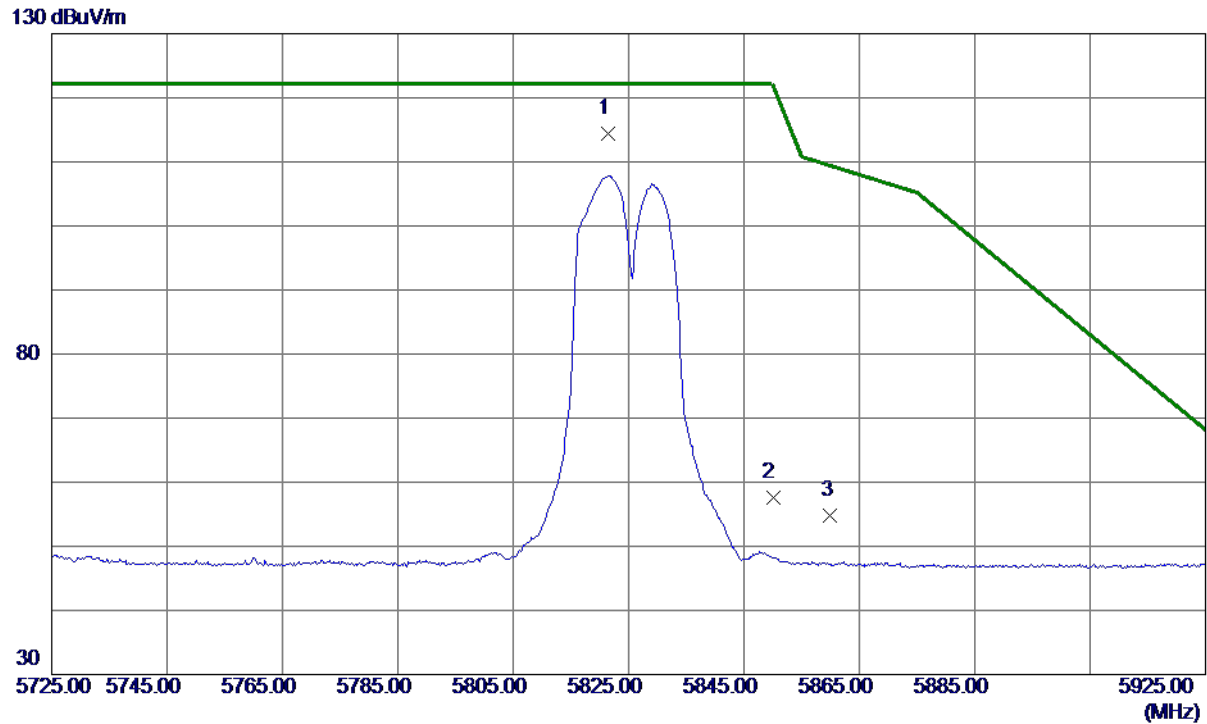
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11570.2400	38.96	17.20	56.16	74.00	-17.84	Peak	
2 *	11570.2400	28.09	17.20	45.29	54.00	-8.71	AVG	

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. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5821.4000	96.36	18.09	114.45	122.20	-7.75	Peak	No Limit
2	5850.0000	39.39	18.13	57.52	122.20	-64.68	Peak	
3	5860.0000	36.74	18.15	54.89	109.40	-54.51	Peak	

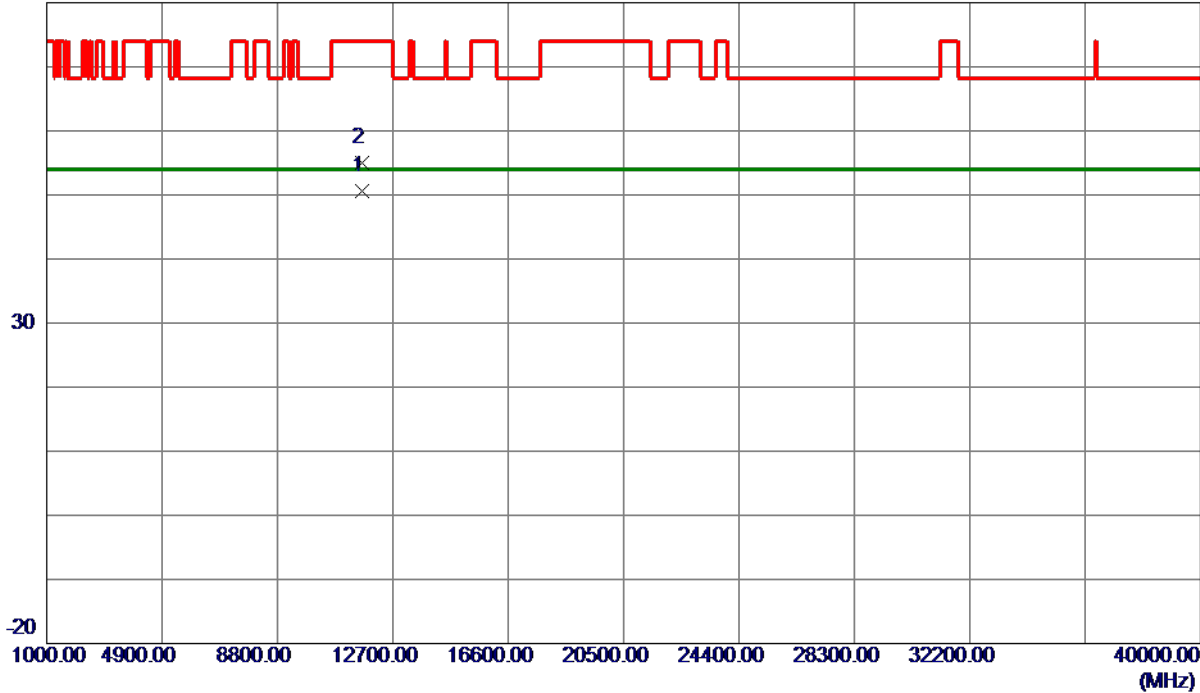
REMARKS:

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

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

Vertical

80 dBuV/m



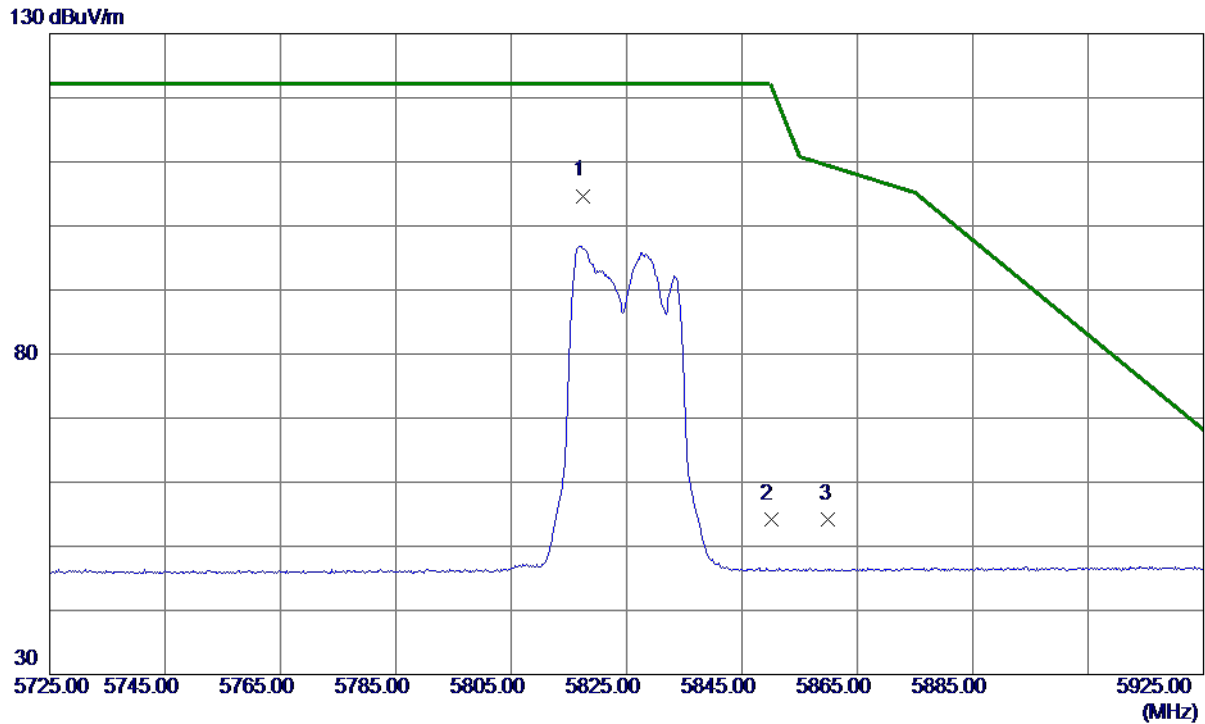
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11649.9020	33.46	17.23	50.69	54.00	-3.31	AVG	
2	11650.1000	37.84	17.23	55.07	74.00	-18.93	Peak	

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. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5817.4000	85.71	18.99	104.70	122.20	-17.50	Peak	No Limit
2	5850.0000	35.12	19.09	54.21	122.20	-67.99	Peak	
3	5860.0000	35.03	19.13	54.16	109.40	-55.24	Peak	

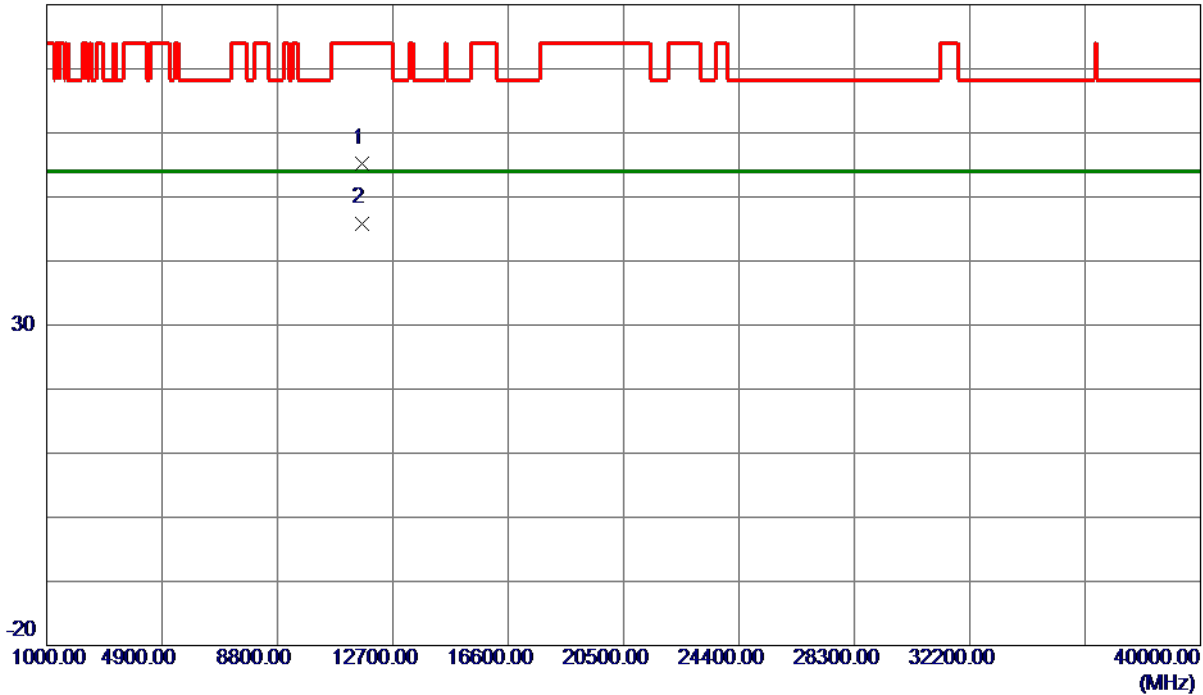
REMARKS:

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

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

Horizontal

80 dBuV/m



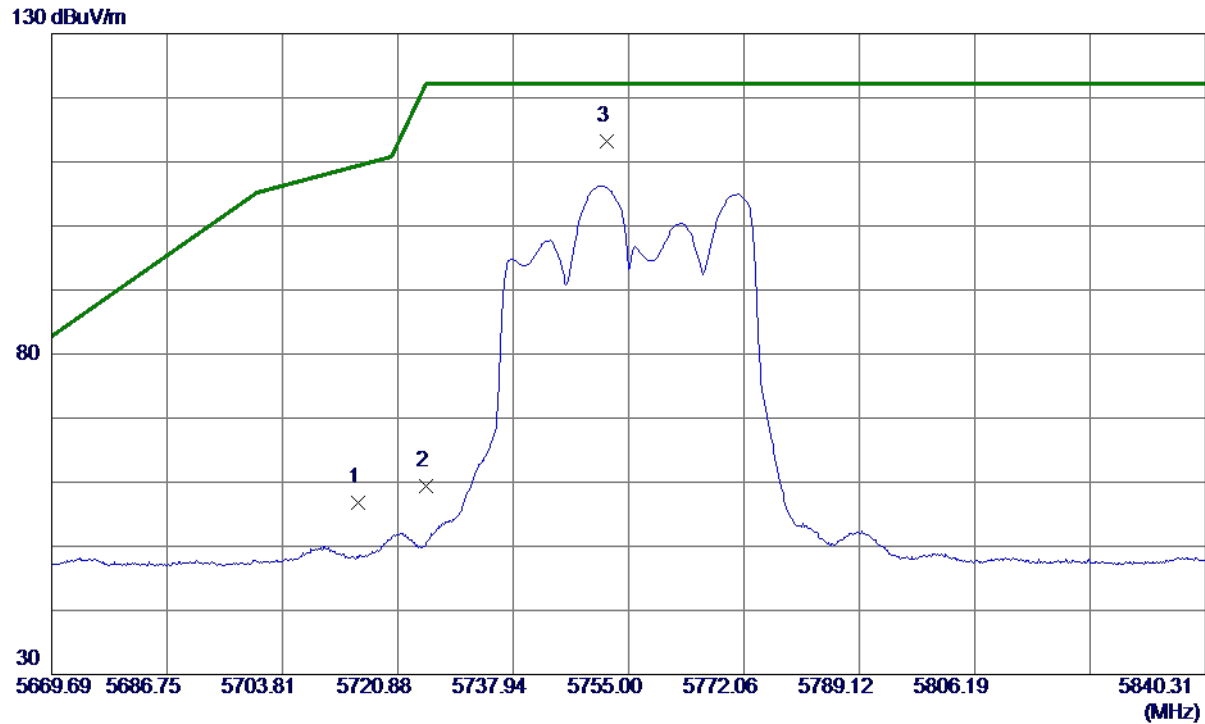
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11649.2600	38.04	17.23	55.27	74.00	-18.73	Peak	
2 *	11649.2880	28.67	17.23	45.90	54.00	-8.10	AVG	

REMARKS:

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

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

Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	38.97	17.92	56.89	109.40	-52.51	Peak	
2	5725.0000	41.41	17.94	59.35	122.20	-62.85	Peak	
3 *	5751.7580	95.17	17.98	113.15	122.20	-9.05	Peak	No Limit

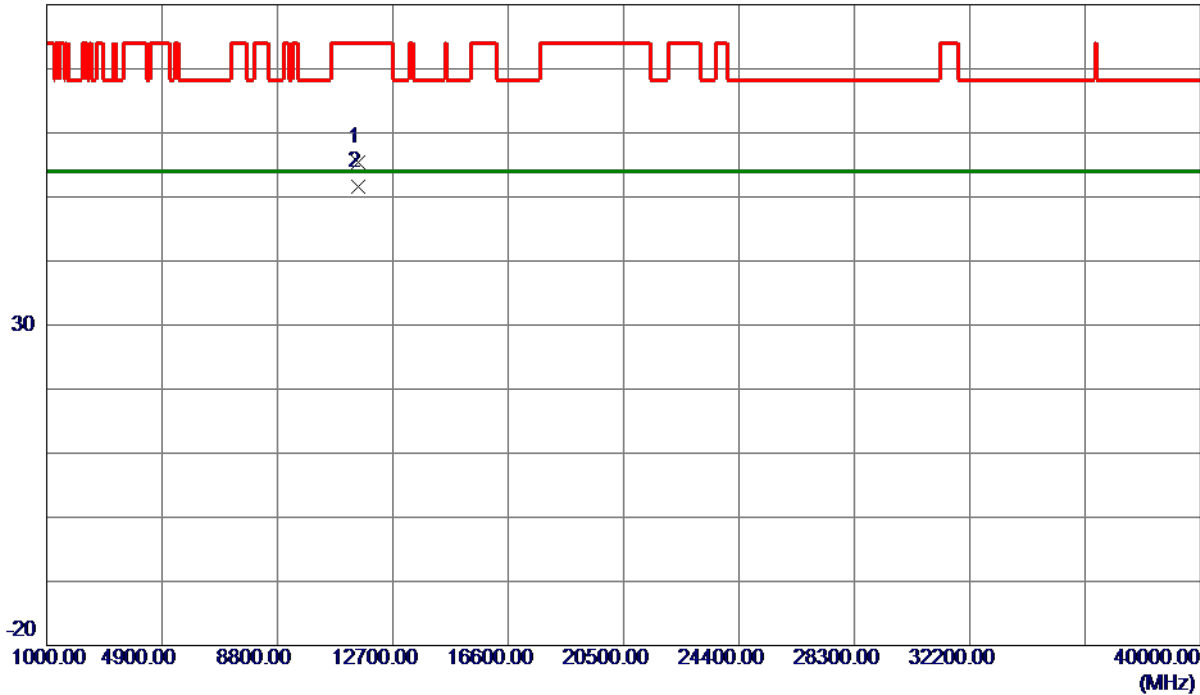
REMARKS:

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

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

Vertical

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11509.8780	38.20	17.18	55.38	74.00	-18.62	Peak	
2 *	11509.9000	34.38	17.18	51.56	54.00	-2.44	AVG	

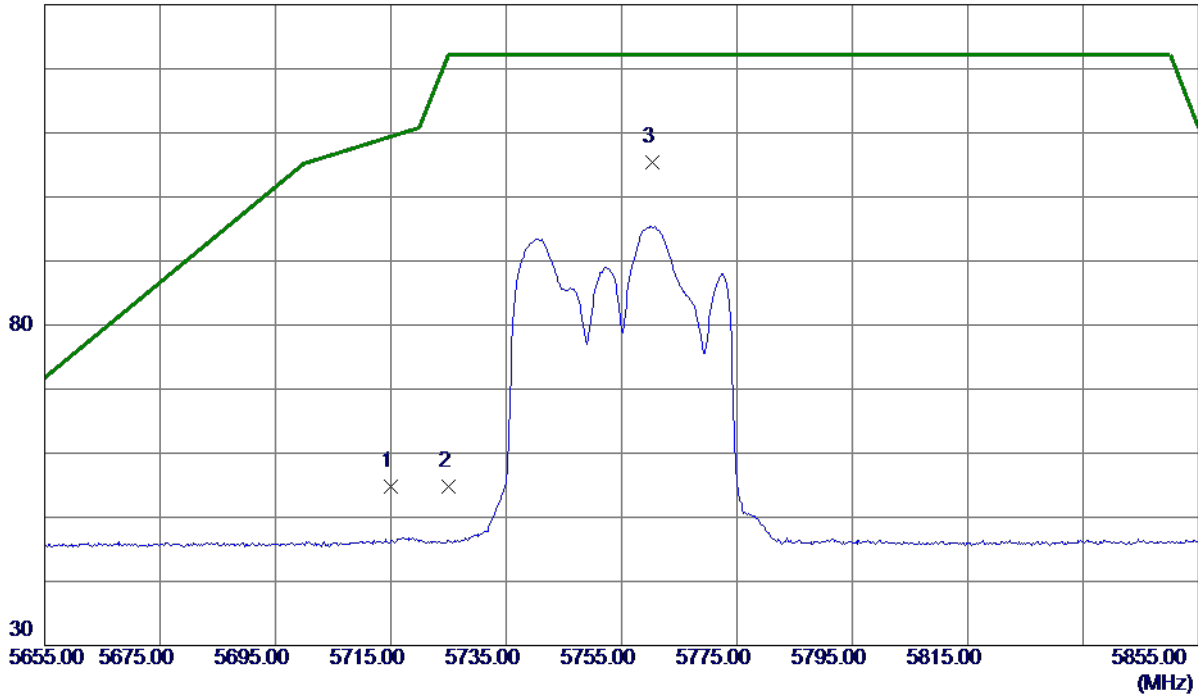
REMARKS:

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

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

Horizontal

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	36.15	18.65	54.80	109.40	-54.60	Peak	
2	5725.0000	36.14	18.69	54.83	122.20	-67.37	Peak	
3 *	5760.4000	86.66	18.80	105.46	122.20	-16.74	Peak	No Limit

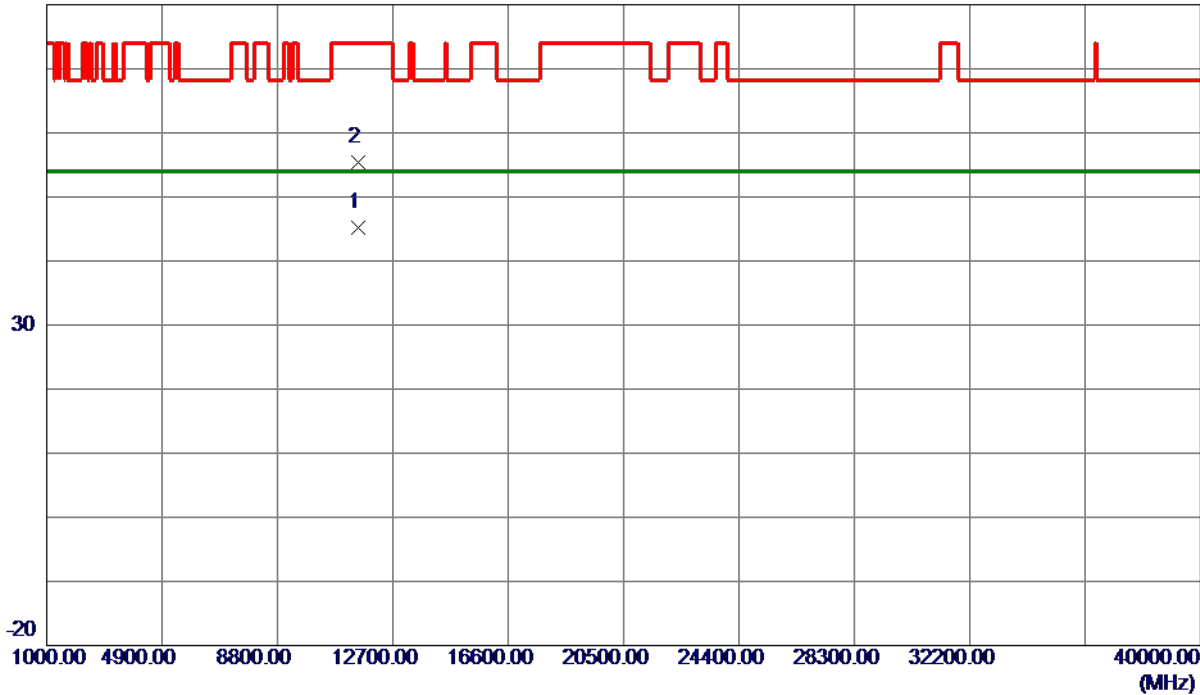
REMARKS:

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

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

Horizontal

80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11509.3700	28.05	17.18	45.23	54.00	-8.77	AVG	
2	11510.3120	38.21	17.18	55.39	74.00	-18.61	Peak	

REMARKS:

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