FCC Radio Test Report

FCC ID: V7TMESH5

This report concerns (check one): ☒**Original Grant** ☐**Class I Change** ☐**Class II Change**

Project No.	:	1806C125
Equipment	:	AC1200 Whole Home Mesh WiFi System
Model Name	:	Mesh5
Applicant	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD.
Address	:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Date of Receipt	:	Jun. 21, 2018
Date of Test	:	Jun. 25, 2018 ~ Jul. 09, 2018
Issued Date	:	Jul. 17, 2018
Tested by	:	BTL Inc.

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NVLAP TESTING NVLAP LAB CODE 200788-0

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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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, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements in all the possible configurations as representative of its intended use.

Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1806C125	Original Issue.	Jul. 16, 2018
MDG1807017	Change the applicant and manufacturer.	Jul. 17, 2018

1. CERTIFICATION

Equipment	:	AC1200 Whole Home Mesh WiFi System
Brand Name	:	Tenda
Model Name	:	Mesh5
Applicant	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD.
Manufacturer	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD.
Address	:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Date of Test	:	Jun. 25, 2018 ~ Jul. 09, 2018
Test Sample	:	Engineering Sample No.:D180605171
Standard(s)	:	FCC Part15, Subpart E(15.407) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1806C125) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the WIFI 5GHz UNII-1 and UNII-3 part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)			
Standard(s) Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.407(a)	26dB Spectrum Bandwidth	PASS	
15.407(a)	Maximum Conducted Output Power	PASS	
15.407(a)	Power Spectral Density	PASS	
15.407(a)	Radiated Emissions	PASS	
15.407(b)	Band Edge Emissions	PASS	
15.407(g)	Frequency Stability	PASS	
15.203	Antenna Requirements	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
BTL's test firm number for FCC: 854385
BTL's designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y).

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

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

B. Radiated Measurement:

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	3.82
		30MHz ~ 200MHz	H	3.60
		200MHz ~ 1,000MHz	V	3.86
		200MHz ~ 1,000MHz	H	3.94
		1GHz~18GHz	V	3.12
		1GHz~18GHz	H	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	H	4.14

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Whole Home Mesh WiFi System	
Brand Name	Tenda	
Model Name	Mesh5	
Model Different	N/A	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	1200Mbps
Power Source	DC voltage supplied from AC/DC adapter. #1 Model:BN071-A12012U #2 Model:BN036-A12012U	
Power Rating	#1 I/P:100-240V~50/60Hz 0.4A O/P:12V ⎓ 1.0A #2 I/P:100-240V~50/60Hz 0.4A O/P:12V ⎓ 1.0A	
Output Power -Non Beamforming	Output Power (Max.)for UNII-1	802.11a: 26.51dBm 802.11n (20M): 28.07dBm 802.11n (40M): 28.25dBm 802.11ac (80M): 22.42dBm
	Output Power (Max.)for UNII-3	802.11a: 25.66dBm 802.11n (20M): 26.73dBm 802.11n (40M): 28.61dBm 802.11ac (80M): 26.64dBm
Output Power -Beamforming	Output Power (Max.)for UNII-1	802.11n (20M): 22.42dBm 802.11n (40M): 23.72dBm 802.11ac (80M): 22.06dBm
	Output Power (Max.)for UNII-3	802.11n (20M): 25.82dBm 802.11n (40M): 26.63dBm 802.11ac (80M): 26.28dBm

Note:

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

2. Channel List:

802.11a 802.11n 20MHz		802.11n 40MHz		802.11ac 80MHz	
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				

802.11a 802.11n 20MHz		802.11n 40MHz		802.11ac 80MHz	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3. Antenna Specification:

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

Note:

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

then,

for non-beamforming function,

Direction gain = G_{ANT}+10log(N)dBi=3+10log(2), that is Directional gain=6.01.

So, for UNII-1,

the out power limit is 30-6.01+6=29.99,

the power density limit is 17-6.01+6=16.99.

for UNII-3,

the out power limit is 30-6.01+6=29.99,

the power density limit is 30-6.01+6=29.99.

for beamforming function,

Beamforming Gain=3 dBi, Directional gain=6.01.

So,for UNII-1,

the out power limit is 30-6.01-3+6=26.99,

the power density limit is 17-6.01-3+6=13.99.

for UNII-3,

the out power limit is 30-6.01-3+6=26.99,

the power density limit is 30-6.01-3+6=26.99.

4.

Operating Mode / TX Mode	1TX	2TX
802.11a	V (ANT 1)	-
802.11n (20MHz)	-	V (ANT 1+ANT 2)
802.11n (40MHz)	-	V (ANT 1+ANT 2)
802.11ac (80MHz)	-	V (ANT 1+ANT 2)

ANT 1 for 1TX was found to be the worst case and recorded

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC80 Mode / CH42 (UNII-1)
Mode 5	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 7	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 8	TX AC80 Mode / CH155 (UNII-3)
Mode 9	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 13	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC80 Mode / CH42 (UNII-1)
Mode 5	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 7	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 8	TX AC80 Mode / CH155 (UNII-3)

Note:
(1) For radiated below 1GHz test, the 802.11a mode is found to be the worst case and recorded.

3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product

Non Beamforming

UNII-1			
Test Software Version	MP_TEST		
Frequency (MHz)	5180	5200	5240
A Mode	40	55	55
N20 Mode	39/38	45/41	45/41
Frequency (MHz)	5190	5230	
N40 Mode	31/31	45/45	
Frequency (MHz)	5210		
AC80 Mode	29/29		

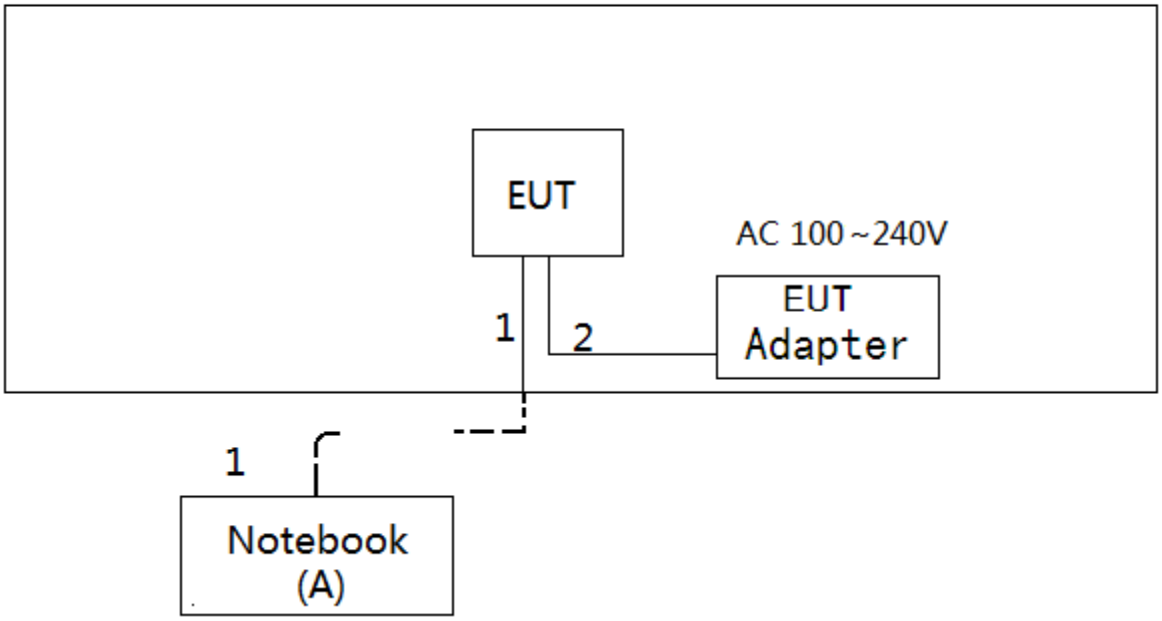
UNII-3			
Test Software Version	MP_TEST		
Frequency (MHz)	5745	5785	5825
A Mode	50	48	42
N20 Mode	37/37	37/37	36/36
Frequency (MHz)	5755	5795	
N40 Mode	45/45	47/47	
Frequency (MHz)	5775		
AC80 Mode	40/40		

Beamforming

UNII-1			
Test Software Version	MP_TEST		
Frequency (MHz)	5180	5200	5240
N20 Mode	30/30	30/30	30/30
Frequency (MHz)	5190	5230	
N40 Mode	31/31	35/35	
Frequency (MHz)	5210		
AC80 Mode	29/29		

UNII-3			
Test Software Version	MP_TEST		
Frequency (MHz)	5745	5785	5825
N20 Mode	37/37	37/37	36/36
Frequency (MHz)	5755	5795	
N40 Mode	41/41	42/42	
Frequency (MHz)	5775		
AC80 Mode	40/40		

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	NOTEBOOK	DELL	INSPIRON 1420	N/A	JX193A01SDC2

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

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150kHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

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.

4.1.2 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 equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

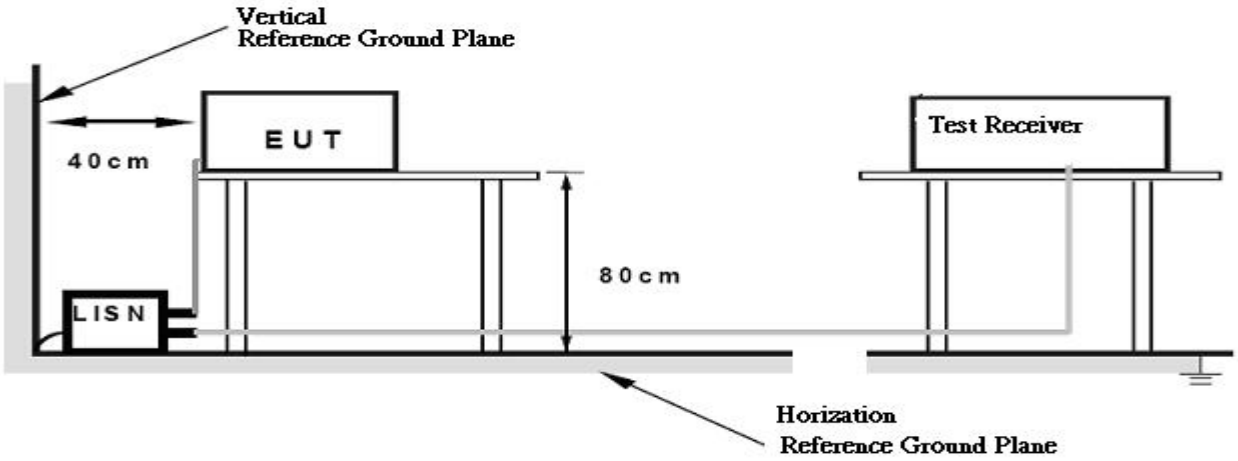
d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Appendix A.

Remark:

(1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
(2) Measuring frequency range from 150kHz to 30MHz.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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.

Frequencies (MHz)	Field Strength (micorvolts/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

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27(Note 2)	68.3
	10(Note 2)	105.3
	15.6(Note 2)	110.9
	27(Note 2)	122.3

Note:

1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength: $E = \frac{1000000\sqrt{30P}}{3}$ μV/m, where P is the eirp (Watts)

2. According to FCC 16-24,All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below theband edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above orbelow the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

4.2.2 TEST PROCEDURE

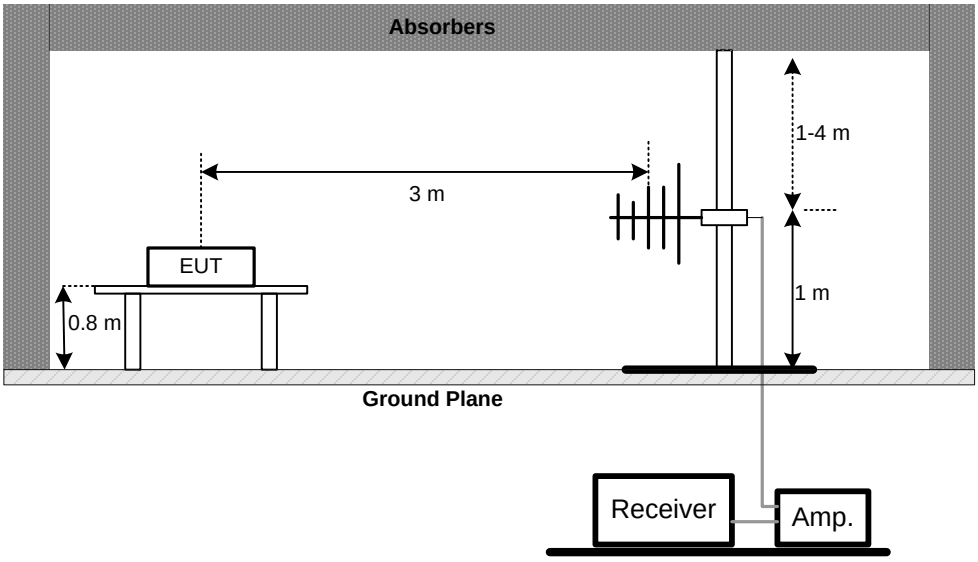
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance 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 1GHz.
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 1GHz)
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 1GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

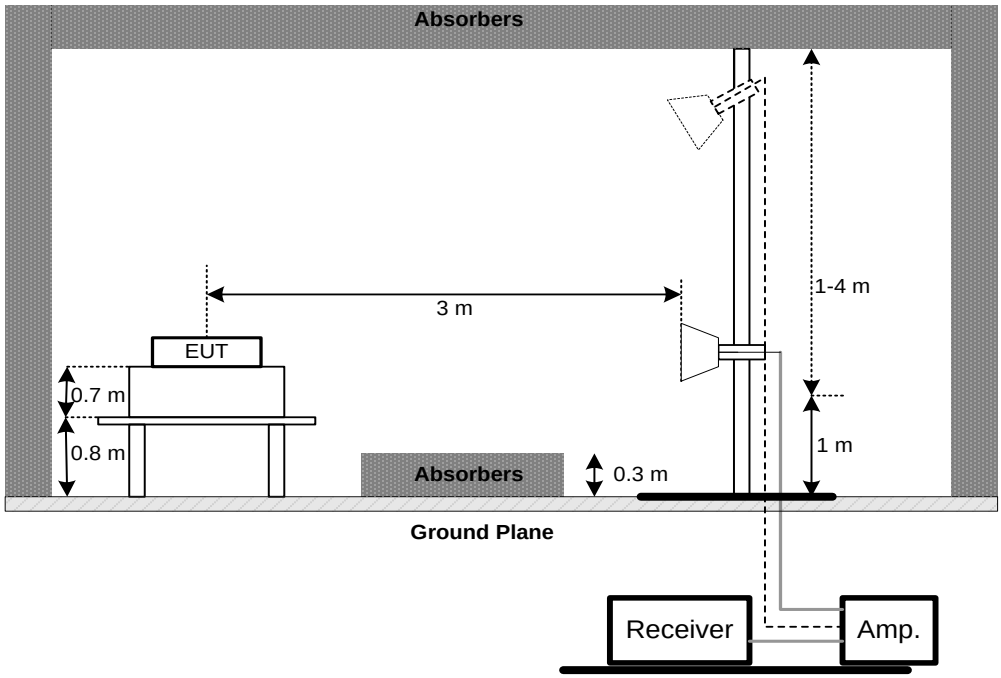
No deviation

4.2.4 TEST SETUP

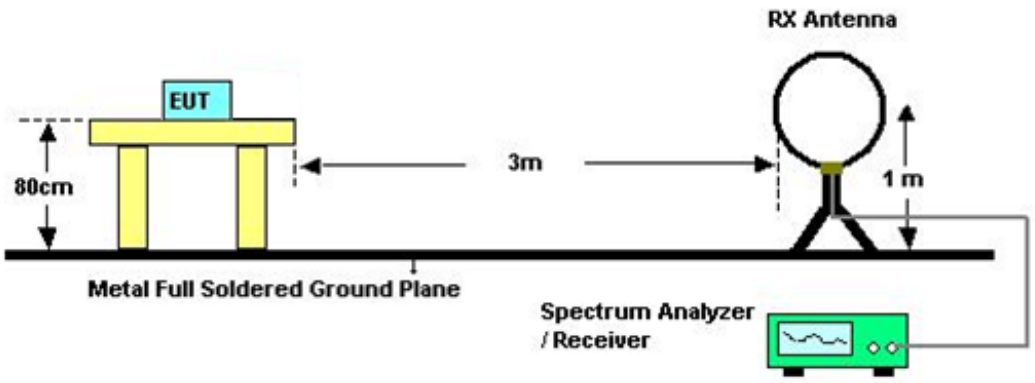
(A)Radiated Emission Test Set-Up Frequency Below 1GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) Radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Appendix B

Remark:

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

4.2.8 TEST RESULTS (BETWEEN 30 TO 1000 MHz)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Appendix D.

Remark:

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

5. 26dB SPECTRUM BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	26 dB Bandwidth	5150-5250	PASS
	Minimum 500kHz 6dB Bandwidth	5725-5850	PASS

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

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Appendix E.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Conducted Output Power	Fixed:1 Watt (30dBm) Mobile and portable: 250mW (24dBm)	5150-5250	PASS
	1 Watt (30dBm)	5725-5850	PASS
Note: The maximum e.i.r.p at anyelevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm)			

6.1.1 TEST PROCEDURE

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

c.

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

d. Test was performed in accordance with method of KDB 789033 D02.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Appendix F.

7. POWER SPECTRAL DENSITY TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	Other then Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250	PASS
	30dBm/500kHz	5725-5850	PASS

7.1.1TEST PROCEDURE

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

b.

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

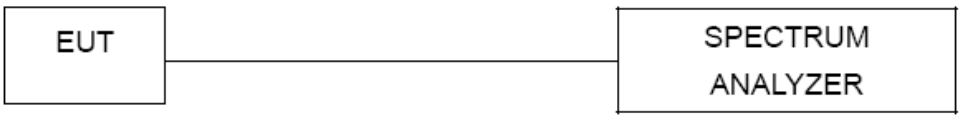
Note:

1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01r02, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
2. The value measured with RBW=1MHz is to be added with 10log(500kHz/1MHz) which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Appendix H.

8. FREQUENCY STABILITY MEASUREMENT

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Frequency Stability	Specified in the user's manual	5150-5250	PASS
		5725-5850	PASS

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

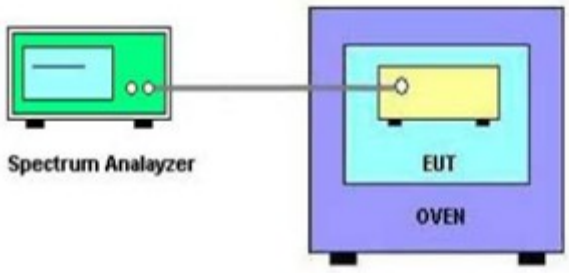
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is 0°C~40°C.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Appendix I.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Oct. 19, 2018

Radiated Emission Measurement - Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 30, 2019
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Antenna	EM	EM-6876-1	230	Feb. 07, 2019

Radiated Emission Measurement - Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Spectrum Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018
2	Precision Oven Tester	Bell	BTH-50C	20170306001	Mar. 11, 2019

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

10. EUT TEST PHOTOS

Conducted Measurement Photos

Adapter:BN036-A12012U

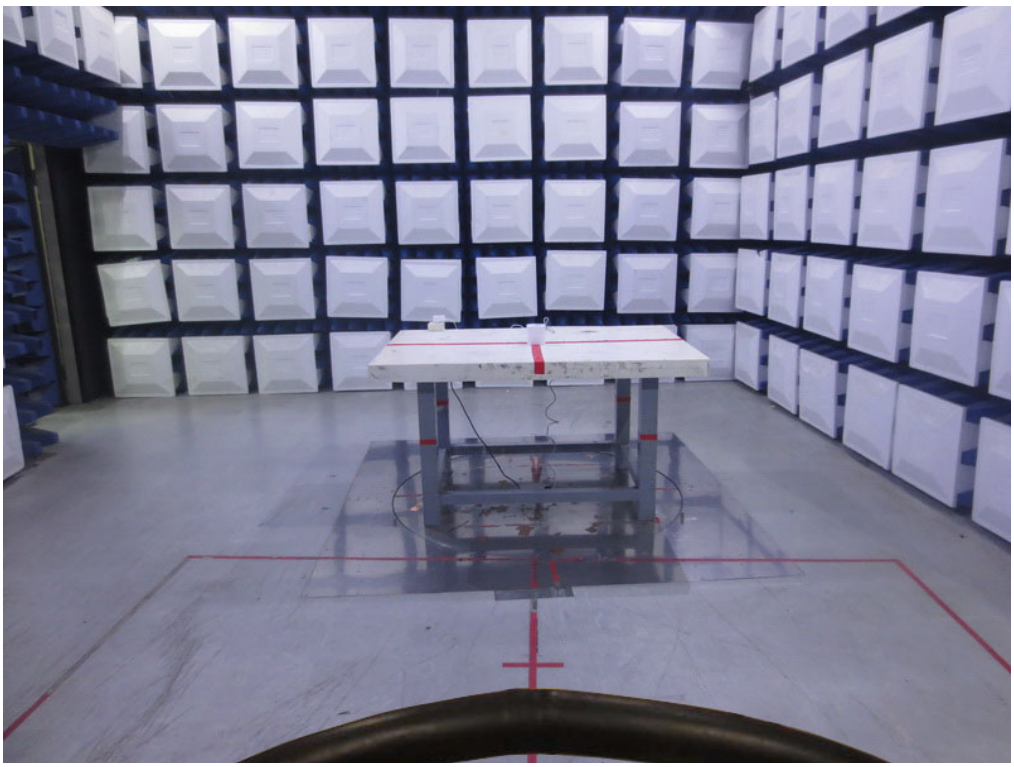
Conducted Measurement Photos

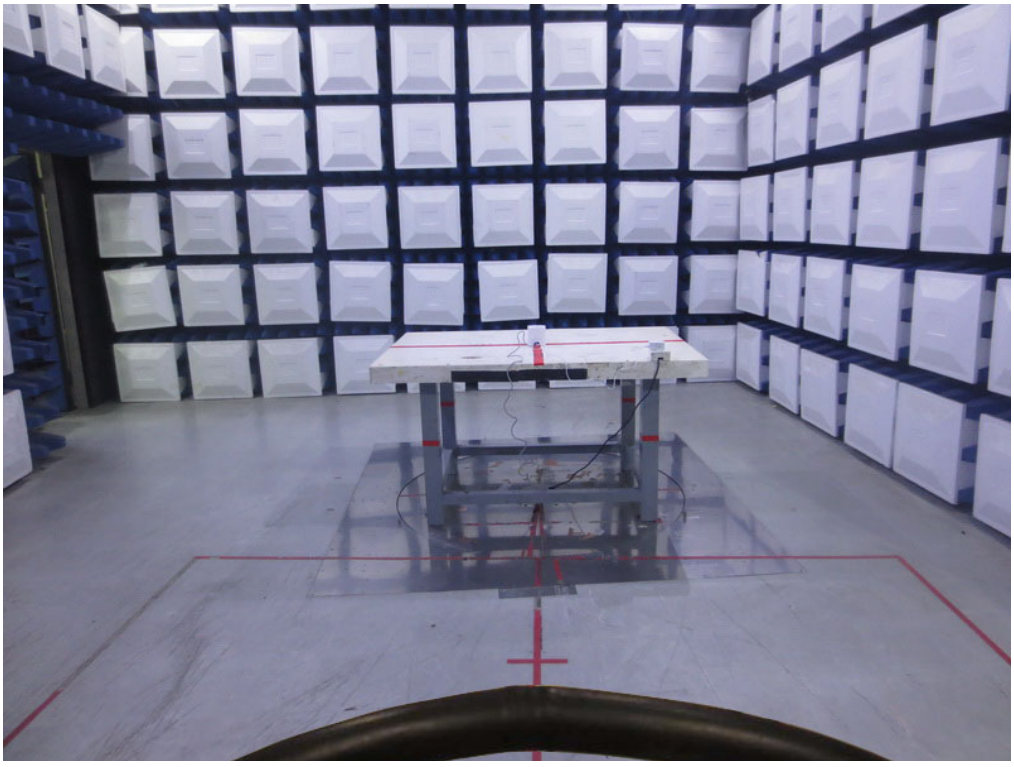
Adapter:BN071-A12012U

Radiated Measurement Photos

9kHz to 30MHz

Adapter:BN036-A12012U

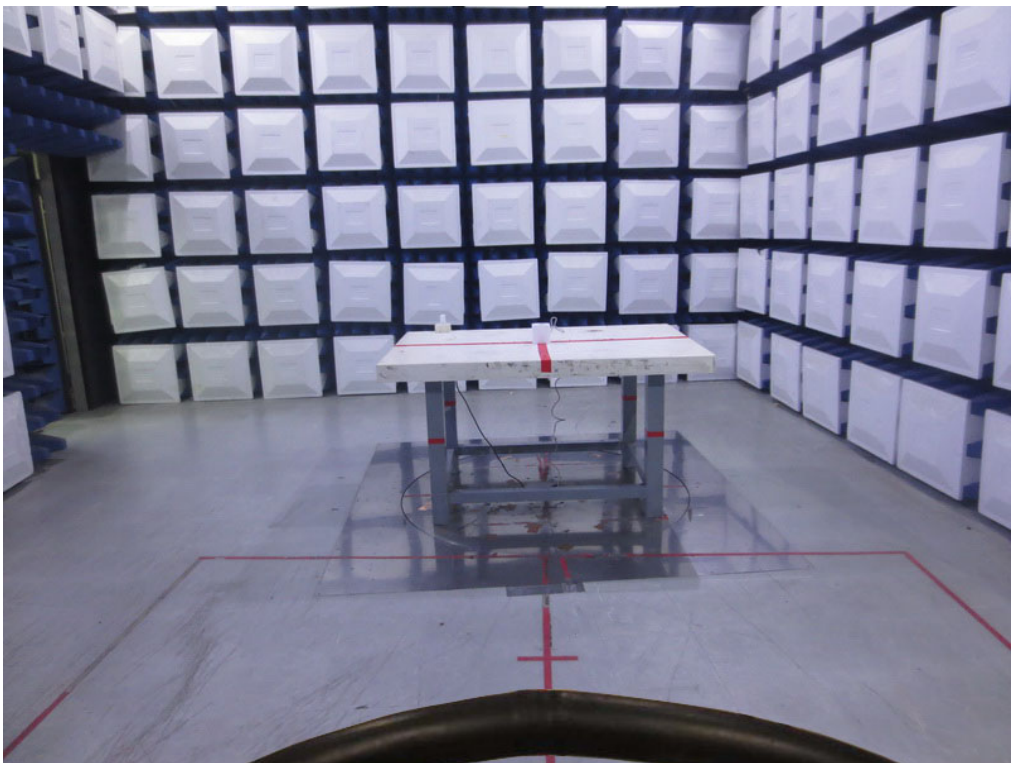


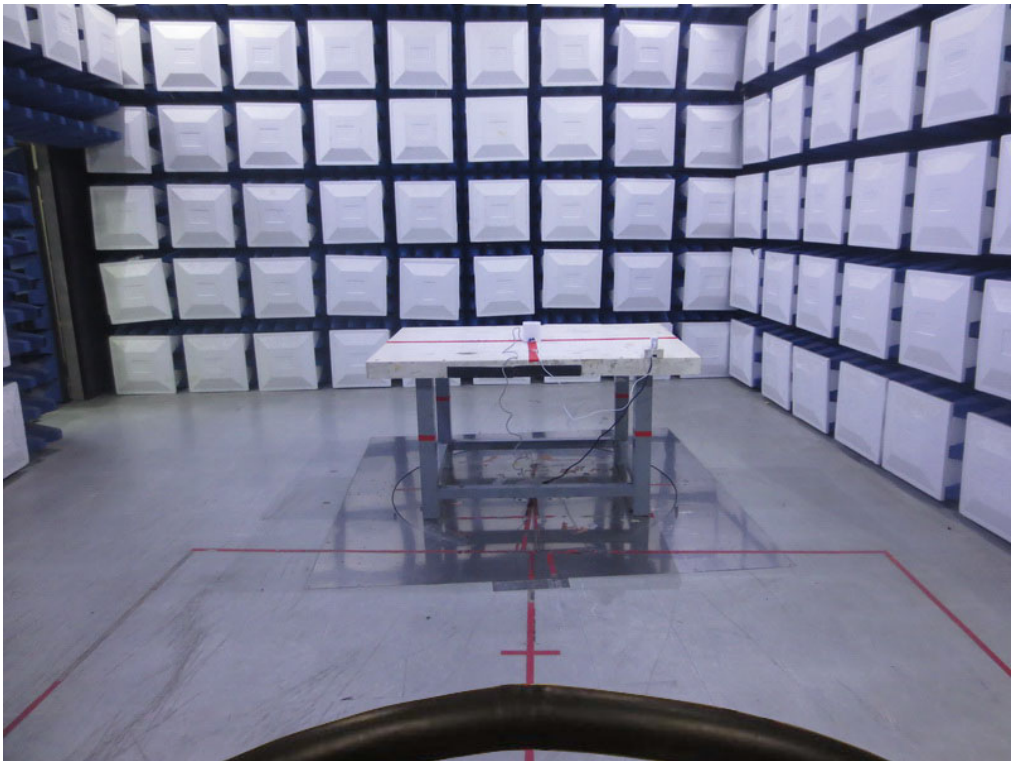


Radiated Measurement Photos

9kHz to 30MHz

Adapter:BN071-A12012U

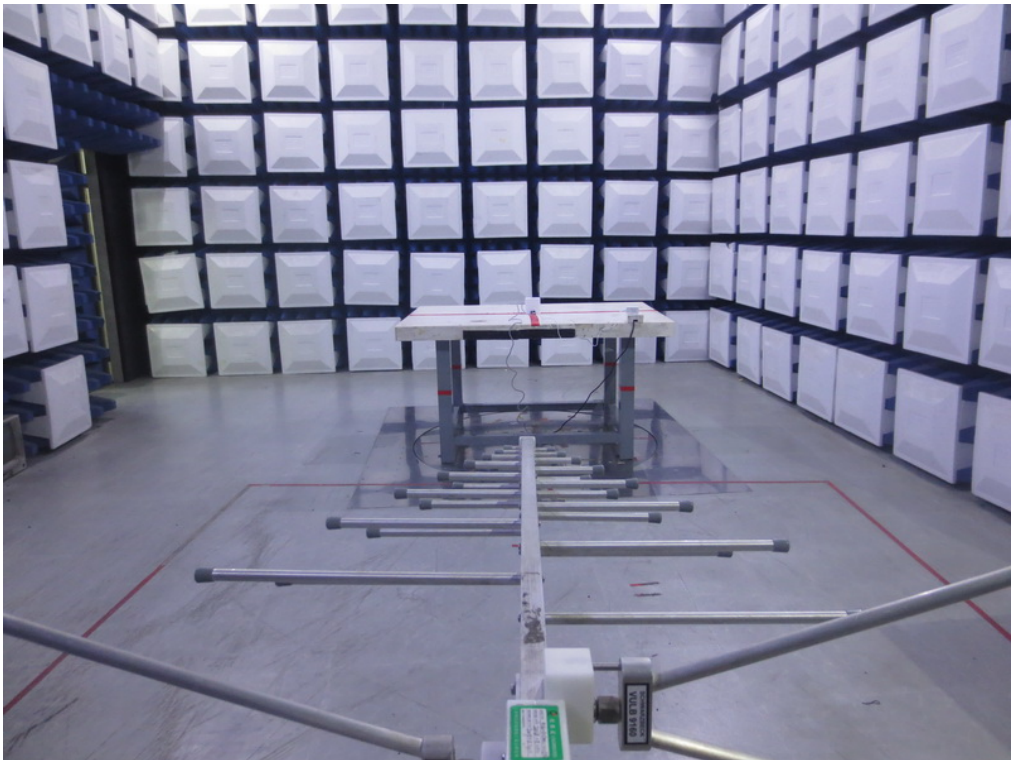




Radiated Measurement Photos

30MHz to 1000MHz

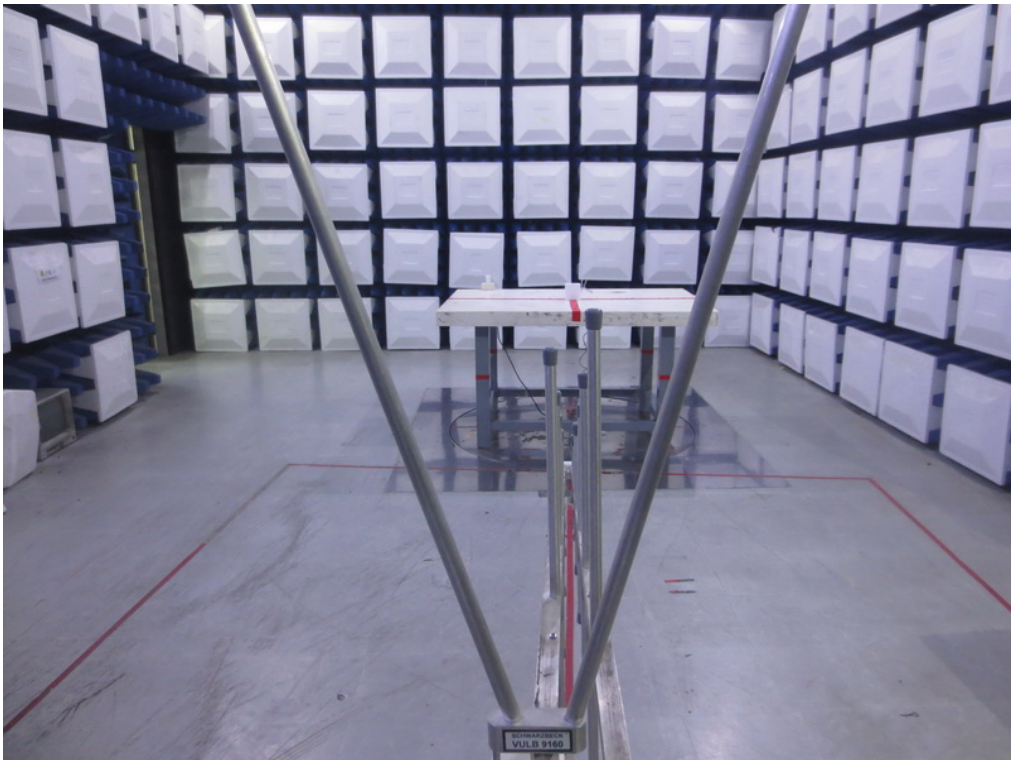
Adapter:BN036-A12012U

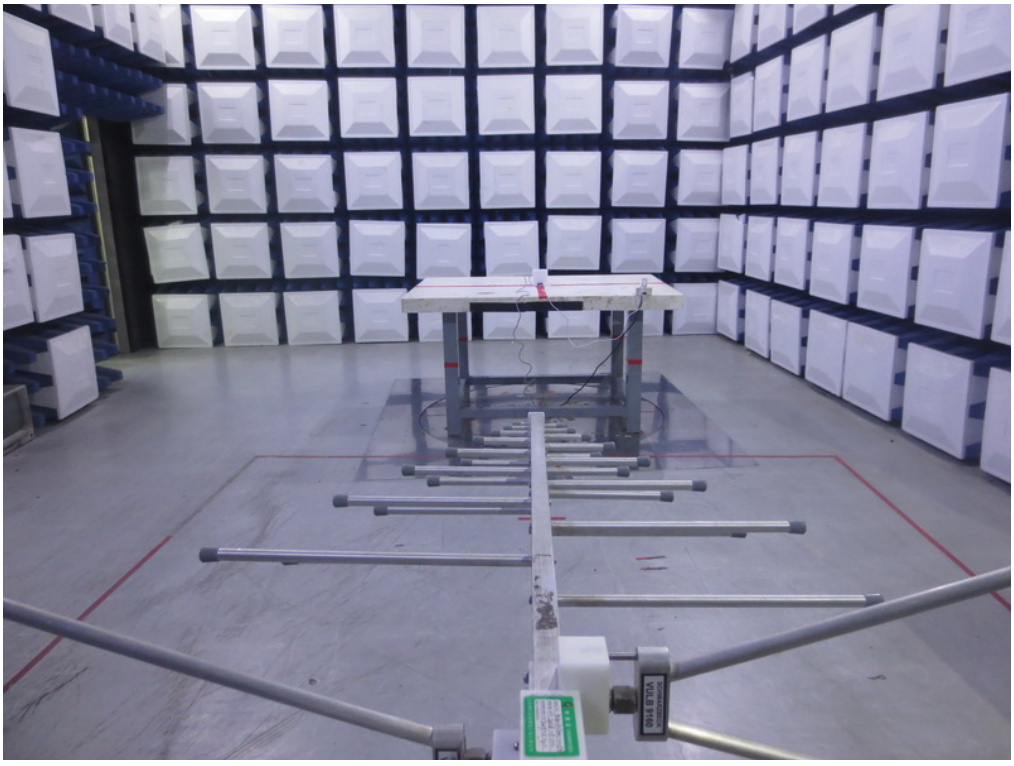


Radiated Measurement Photos

30MHz to 1000MHz

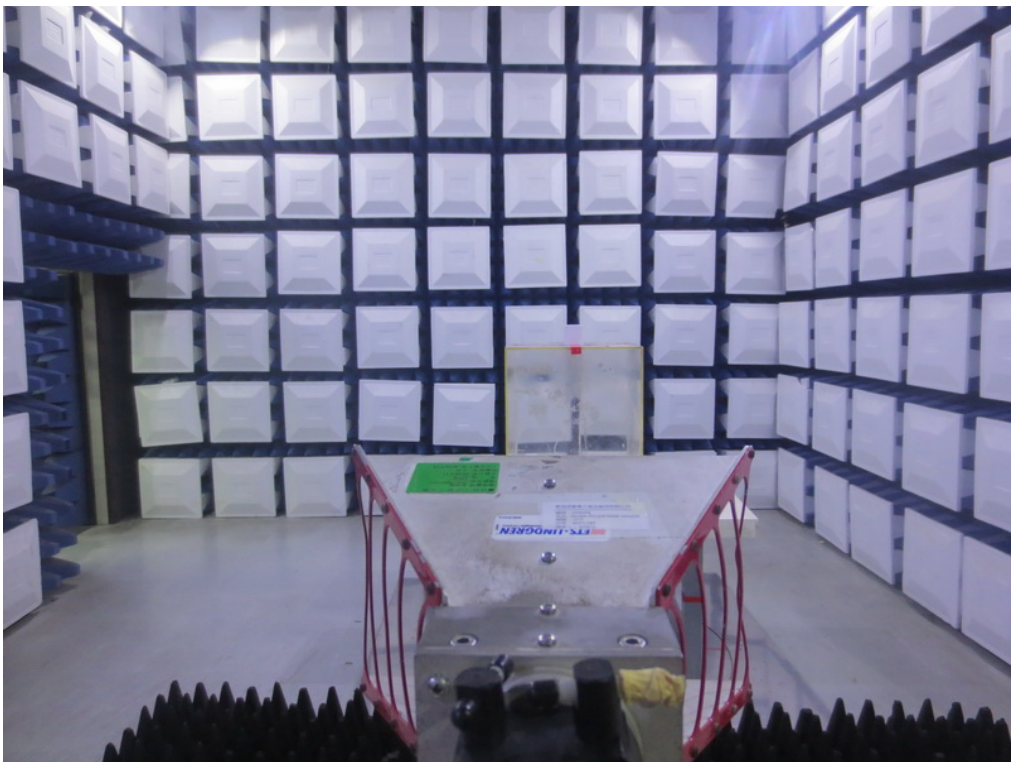
Adapter:BN071-A12012U

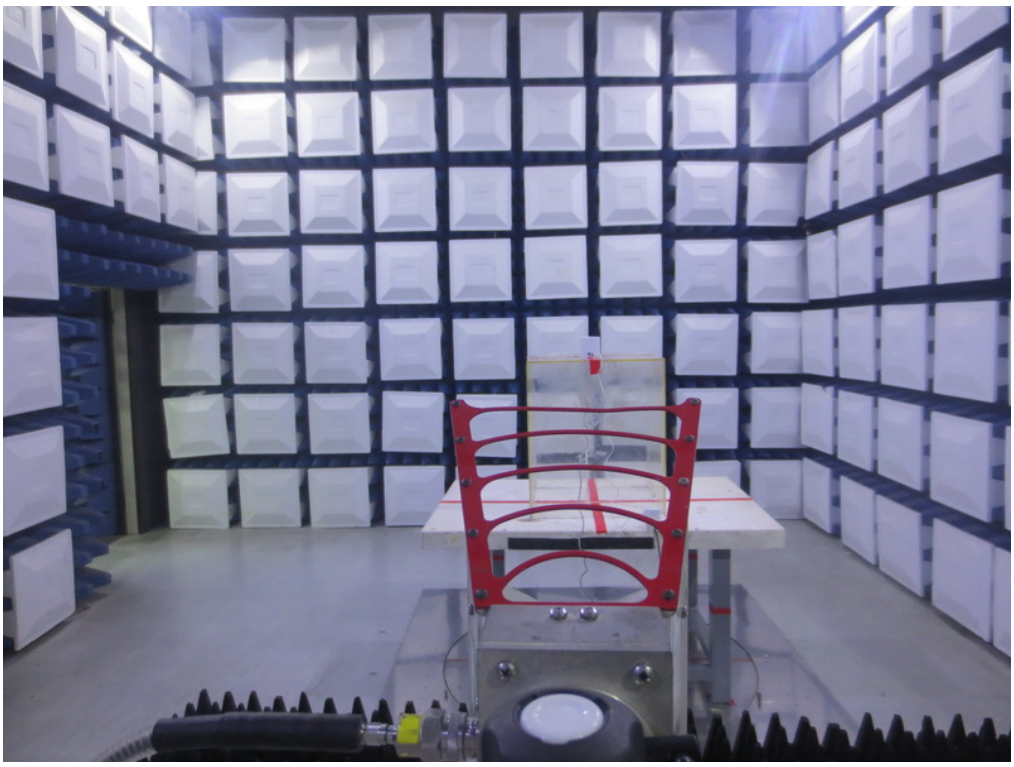




Radiated Measurement Photos

Above 1000MHz

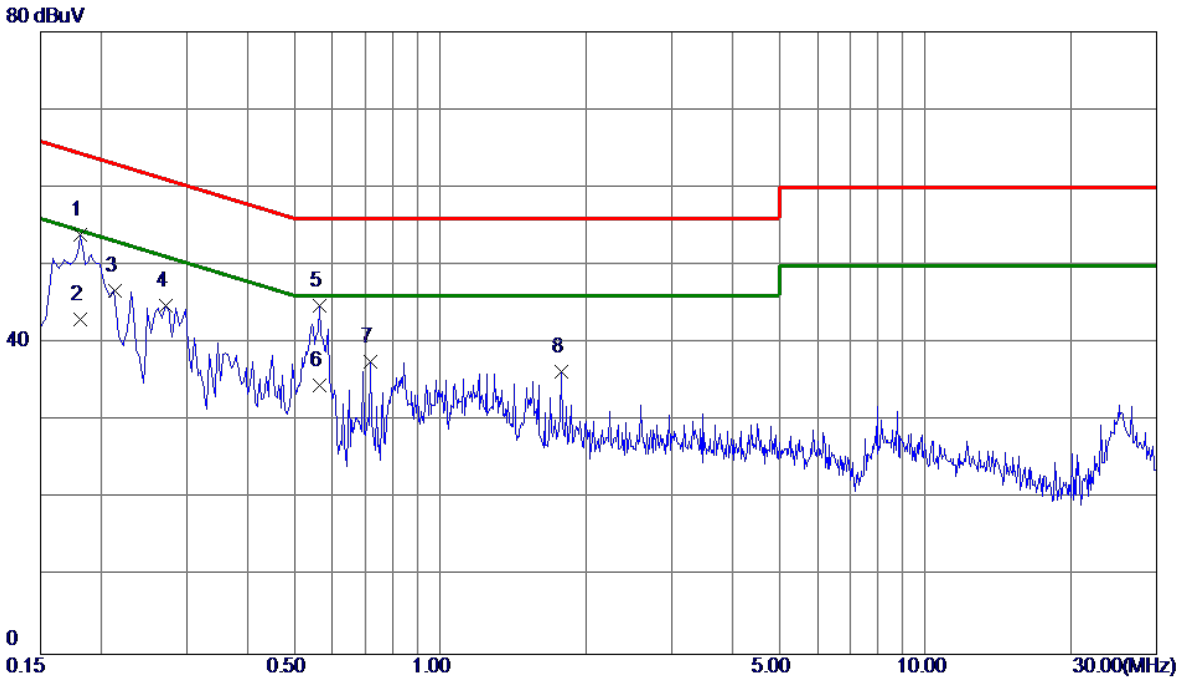




APPENDIX A - CONDUCTED EMISSION

Test Mode:	TX MODE(Adapter:BN036-A12012U)

Line

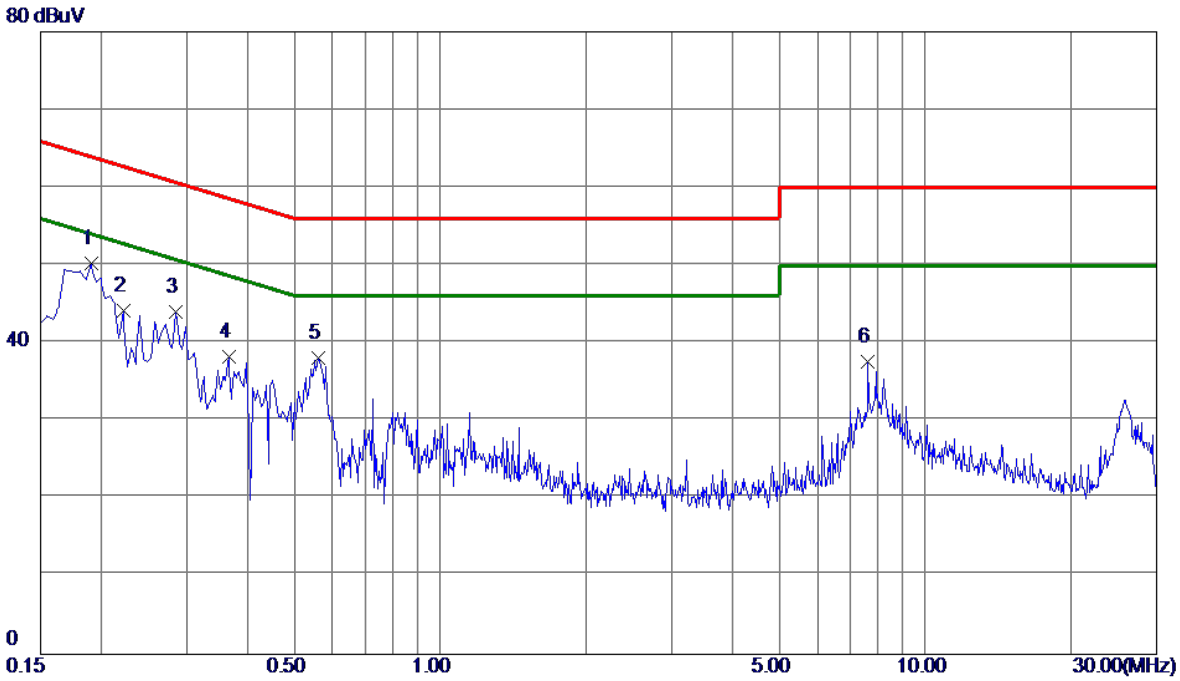


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1815	44.03	9.82	53.85	64.42	-10.57	Peak	
2	0.1815	33.21	9.82	43.03	54.42	-11.39	AVG	
3	0.2130	36.94	9.82	46.76	63.09	-16.33	Peak	
4	0.2714	35.04	9.82	44.86	61.07	-16.21	Peak	
5	0.5639	35.00	9.82	44.82	56.00	-11.18	Peak	
6	0.5639	24.70	9.82	34.52	46.00	-11.48	AVG	
7	0.7170	27.76	9.88	37.64	56.00	-18.36	Peak	
8	1.7745	26.41	9.98	36.39	56.00	-19.61	Peak	

Note：The test result has included the cable loss.

Test Mode:	TX MODE(Adapter:BN036-A12012U)

Neutral

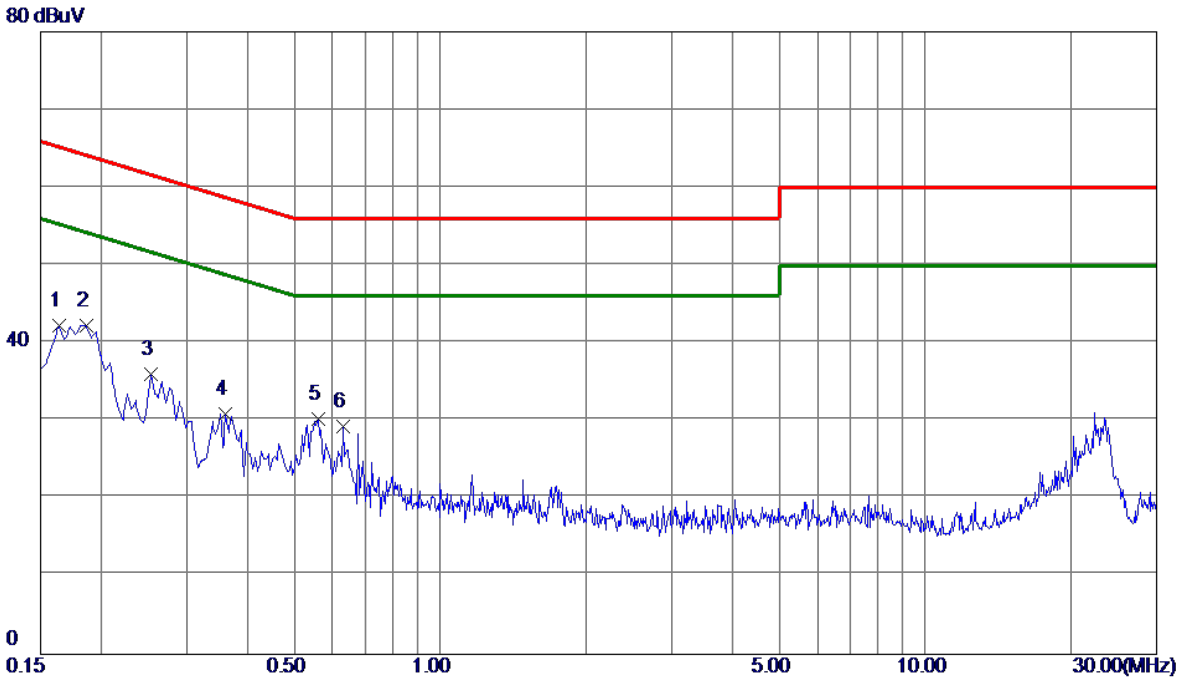


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1905	40.35	9.91	50.26	64.01	-13.75	Peak	
2	0.2220	34.28	9.91	44.19	62.74	-18.55	Peak	
3	0.2850	34.06	9.93	43.99	60.67	-16.68	Peak	
4	0.3660	28.22	9.95	38.17	58.59	-20.42	Peak	
5	0.5595	28.08	9.96	38.04	56.00	-17.96	Peak	
6	7.6155	26.91	10.62	37.53	60.00	-22.47	Peak	

Note：The test result has included the cable loss.

Test Mode:	TX MODE (Adapter:BN071-A12012U)

Line

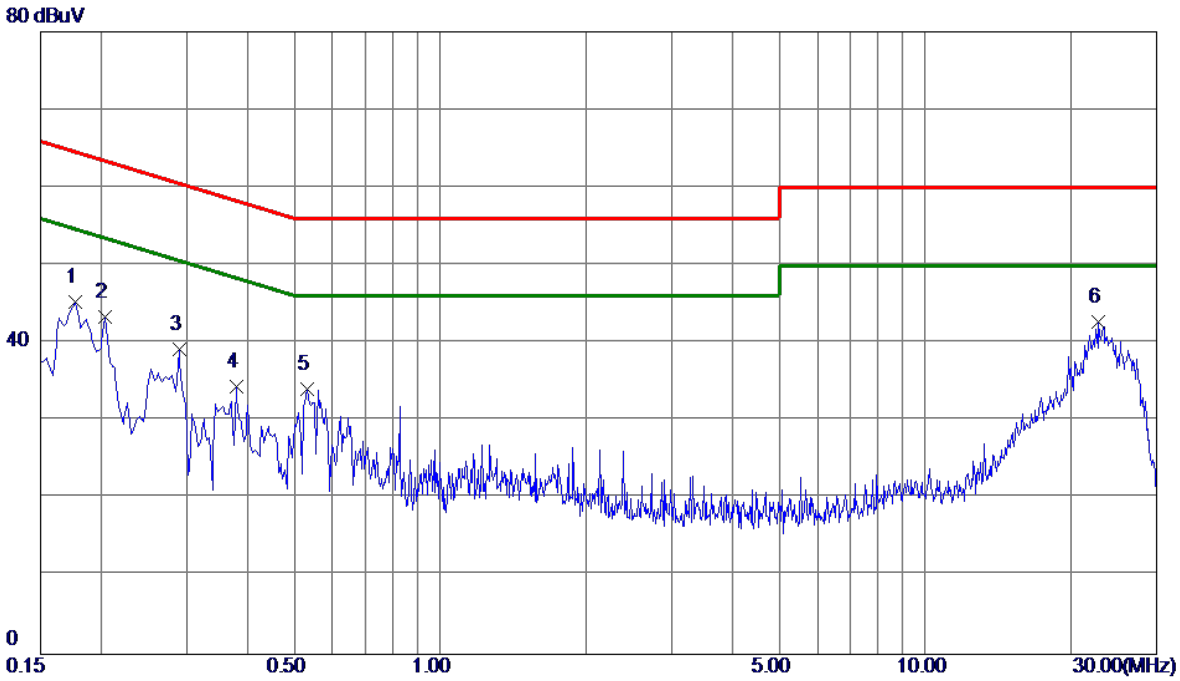


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1635	32.48	9.82	42.30	65.28	-22.98	Peak	
2 *	0.1860	32.46	9.82	42.28	64.21	-21.93	Peak	
3	0.2535	26.13	9.82	35.95	61.64	-25.69	Peak	
4	0.3615	21.07	9.81	30.88	58.69	-27.81	Peak	
5	0.5595	20.39	9.81	30.20	56.00	-25.80	Peak	
6	0.6315	19.46	9.84	29.30	56.00	-26.70	Peak	

Note：The test result has included the cable loss.

Test Mode:	TX MODE (Adapter:BN071-A12012U)

Neutral



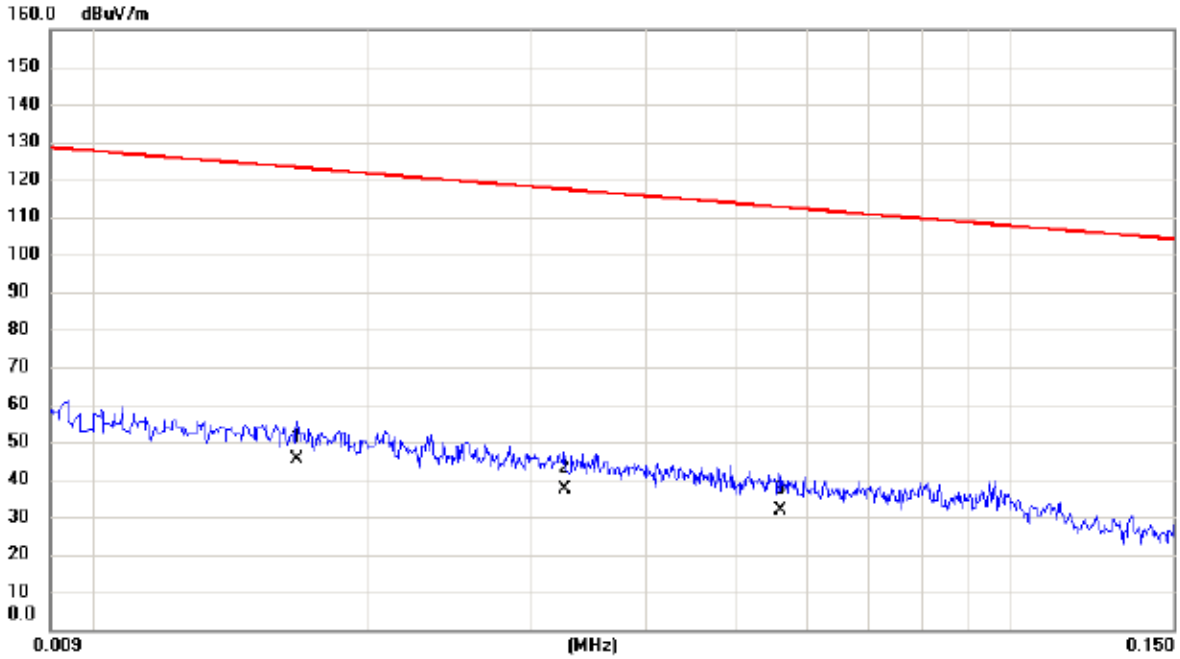
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1770	35.33	9.91	45.24	64.63	-19.39	Peak	
2	0.2040	33.47	9.91	43.38	63.45	-20.07	Peak	
3	0.2895	29.30	9.93	39.23	60.54	-21.31	Peak	
4	0.3795	24.43	9.95	34.38	58.29	-23.91	Peak	
5	0.5325	24.07	9.95	34.02	56.00	-21.98	Peak	
6 *	22.8030	31.23	11.48	42.71	60.00	-17.29	Peak	

Note：The test result has included the cable loss.

APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	TX MODE(Adapter:BN036-A12012U)

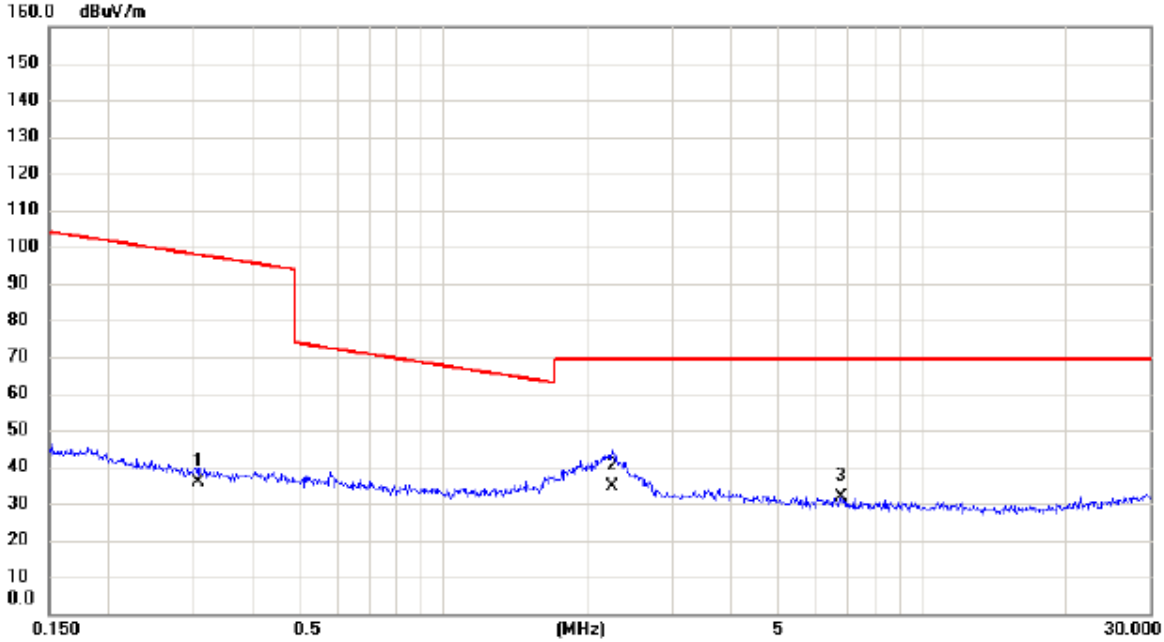
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0167	24.85	20.48	45.33	123.15	-77.82	AVG	
2		0.0326	17.46	19.81	37.27	117.34	-80.07	AVG	
3		0.0560	12.50	19.41	31.91	112.64	-80.73	AVG	

Test Mode:	TX MODE (Adapter:BN036-A12012U)

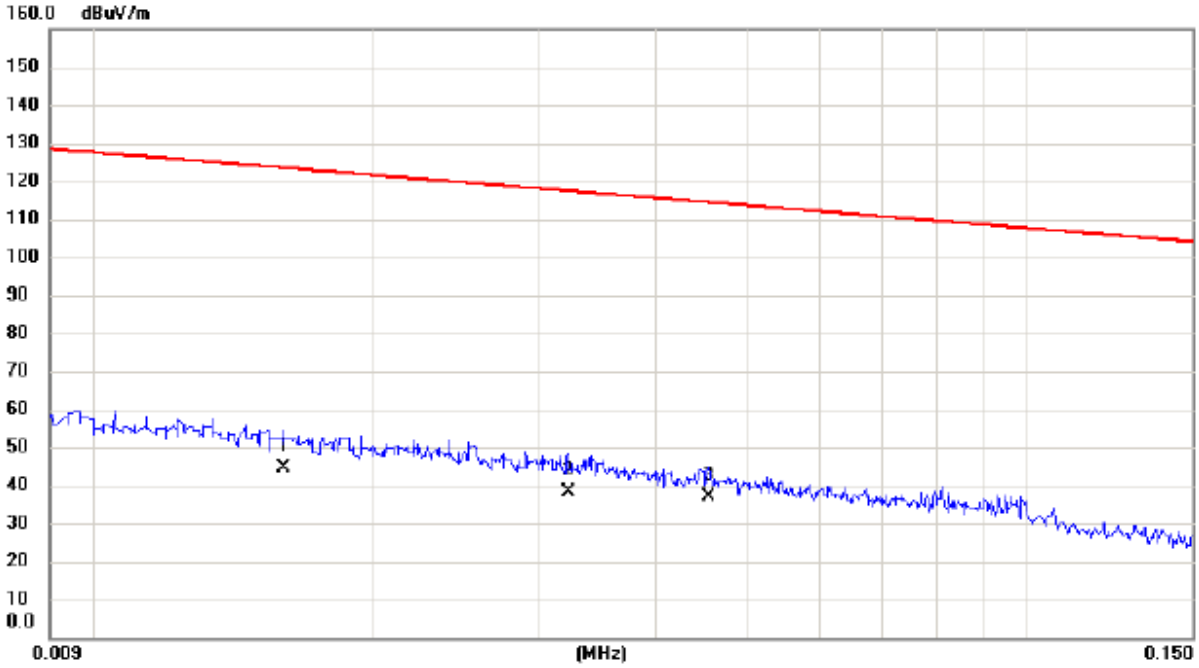
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.3082	18.76	17.04	35.80	97.83	-62.03	AVG	
2	*	2.2486	17.83	16.96	34.79	69.54	-34.75	QP	
3		6.7691	16.98	14.88	31.86	69.54	-37.68	QP	

Test Mode:	TX MODE(Adapter:BN036-A12012U)

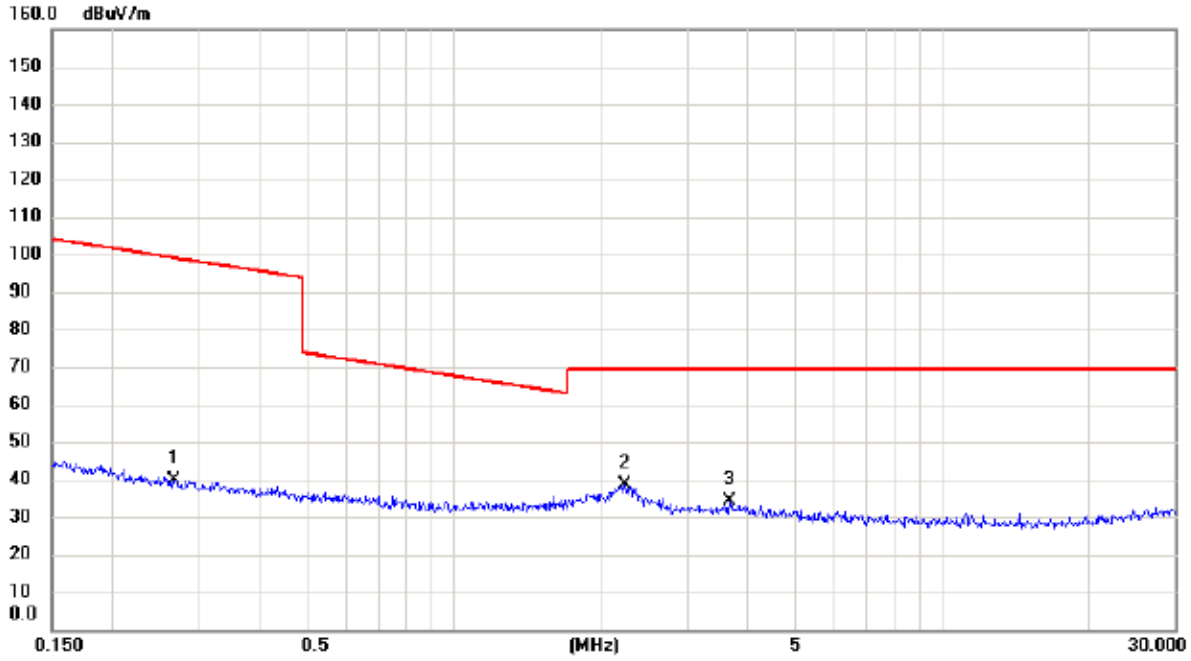
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.0160	23.96	20.58	44.54	123.52	-78.98	AVG	
2		0.0323	18.46	19.82	38.28	117.42	-79.14	AVG	
3	*	0.0456	17.34	19.59	36.93	114.43	-77.50	AVG	

Test Mode:	TX MODE (Adapter:BN036-A12012U)

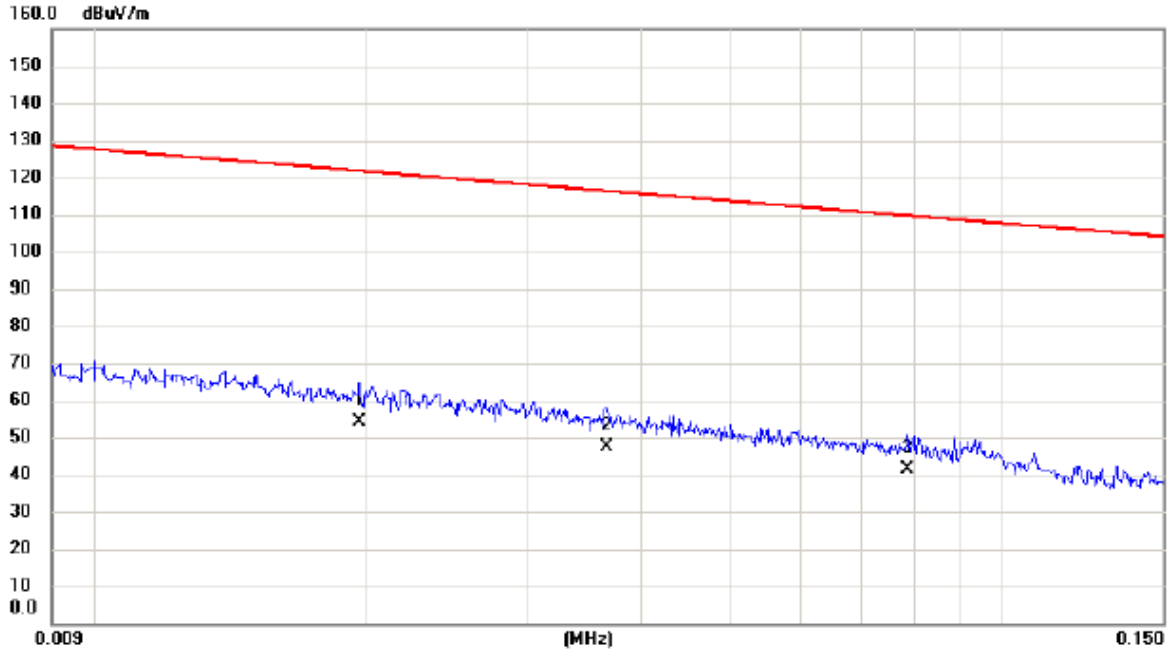
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2672	22.71	17.05	39.76	99.07	-59.31	AVG	
2	*	2.2367	21.56	16.97	38.53	69.54	-31.01	QP	
3		3.6611	18.01	16.01	34.02	69.54	-35.52	QP	

Test Mode:	TX MODE (Adapter:BN071-A12012U)

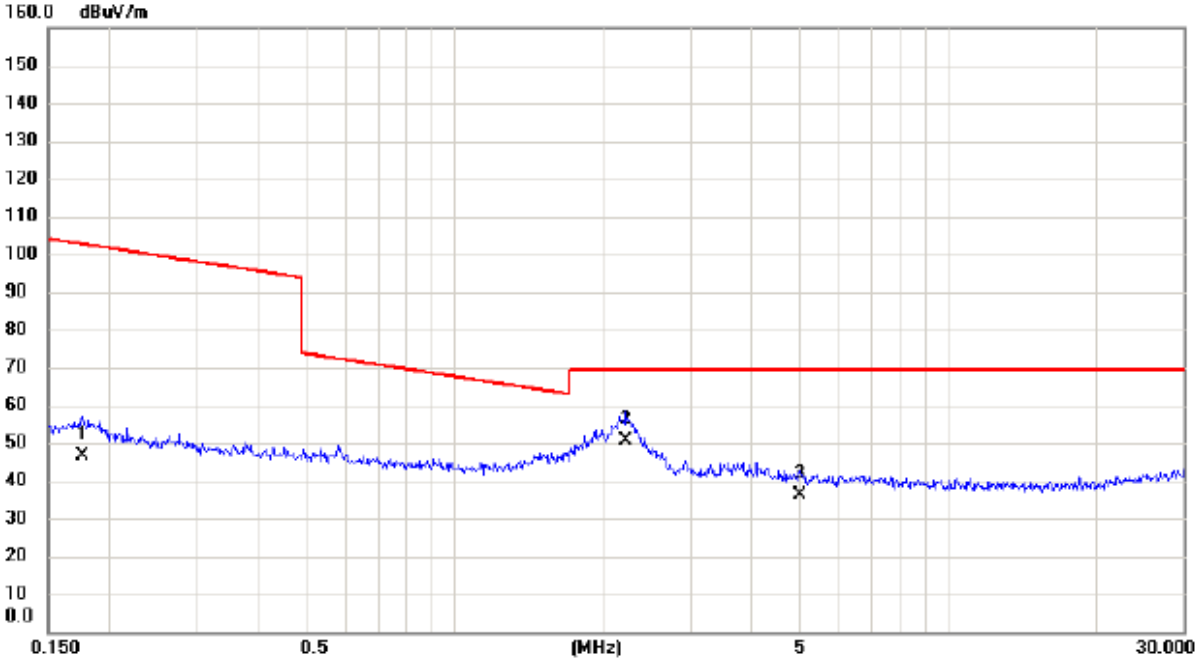
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0196	34.10	20.08	54.18	121.76	-67.58	AVG	
2		0.0367	27.80	19.74	47.54	116.31	-68.77	AVG	
3		0.0785	22.30	18.95	41.25	109.71	-68.46	AVG	

Test Mode:	TX MODE (Adapter:BN071-A12012U)

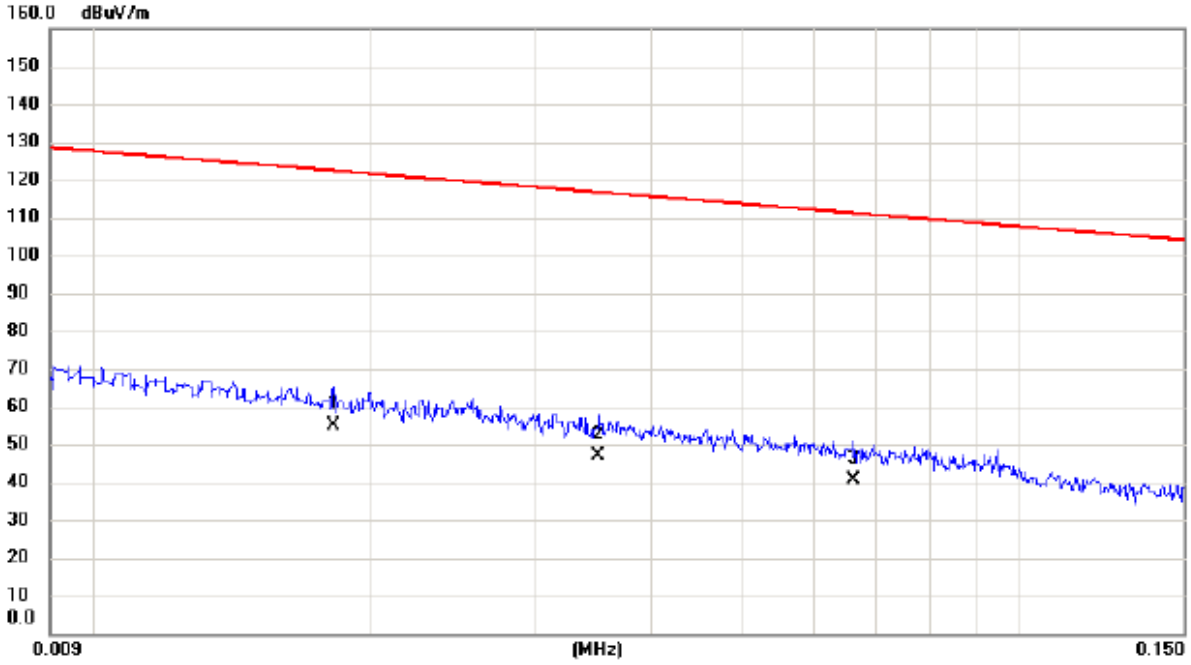
Ant 0°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1758	29.30	17.20	46.50	102.71	-56.21	AVG	
2	*	2.2132	33.50	16.98	50.48	69.54	-19.06	QP	
3		5.0046	21.10	15.17	36.27	69.54	-33.27	QP	

Test Mode:	TX MODE (Adapter:BN071-A12012U)

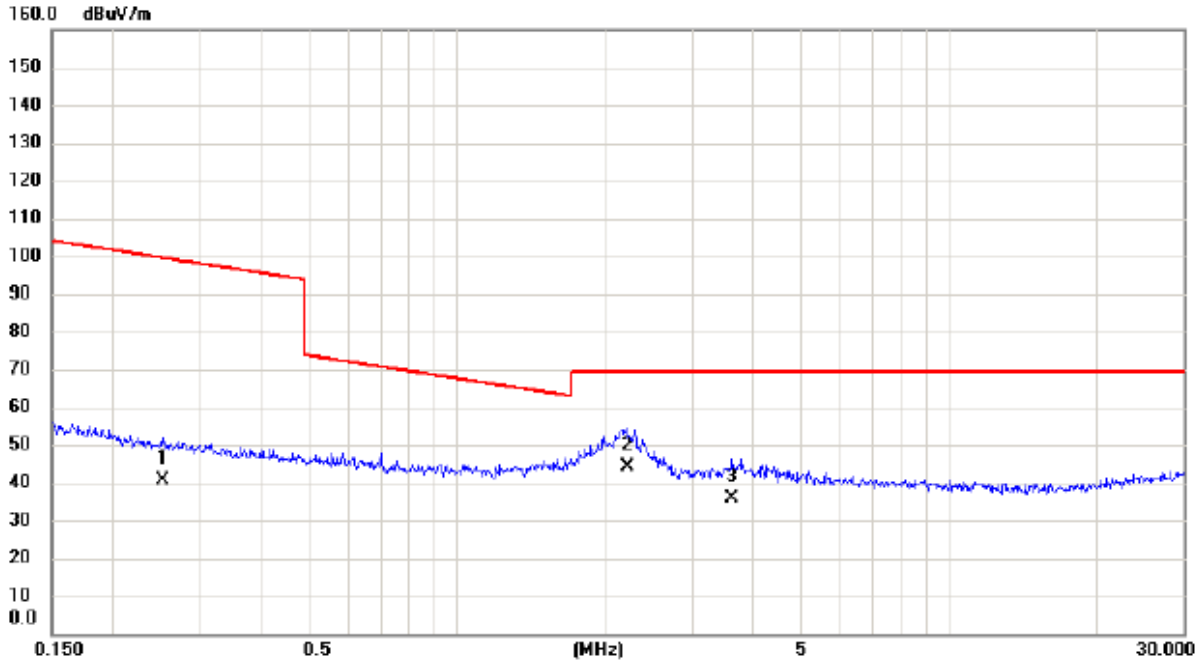
Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0182	34.70	20.27	54.97	122.40	-67.43	AVG	
2		0.0351	27.30	19.77	47.07	116.70	-69.63	AVG	
3		0.0662	21.50	19.21	40.71	111.19	-70.48	AVG	

Test Mode:	TX MODE (Adapter:BN071-A12012U)

Ant 90°

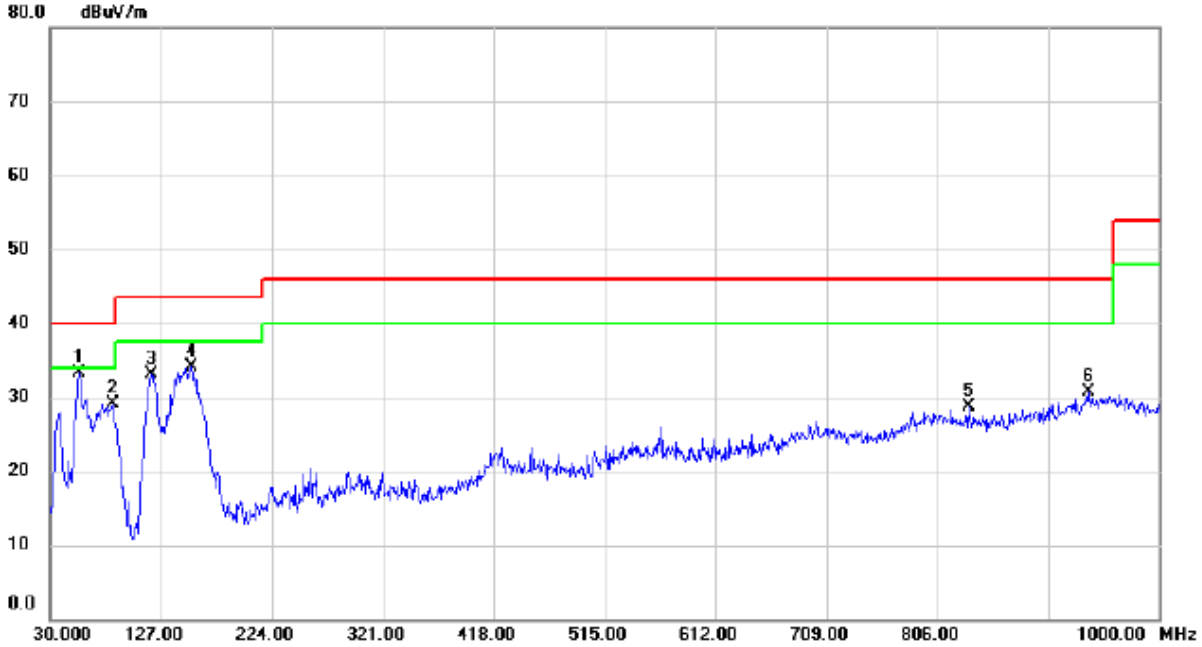


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2521	23.50	17.06	40.56	99.57	-59.01	AVG	
2	*	2.2132	27.30	16.98	44.28	69.54	-25.26	QP	
3		3.6225	19.80	16.04	35.84	69.54	-33.70	QP	

APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode:	UNII-1/TX A Mode 5180MHz (Adapter:BN036-A12012U)

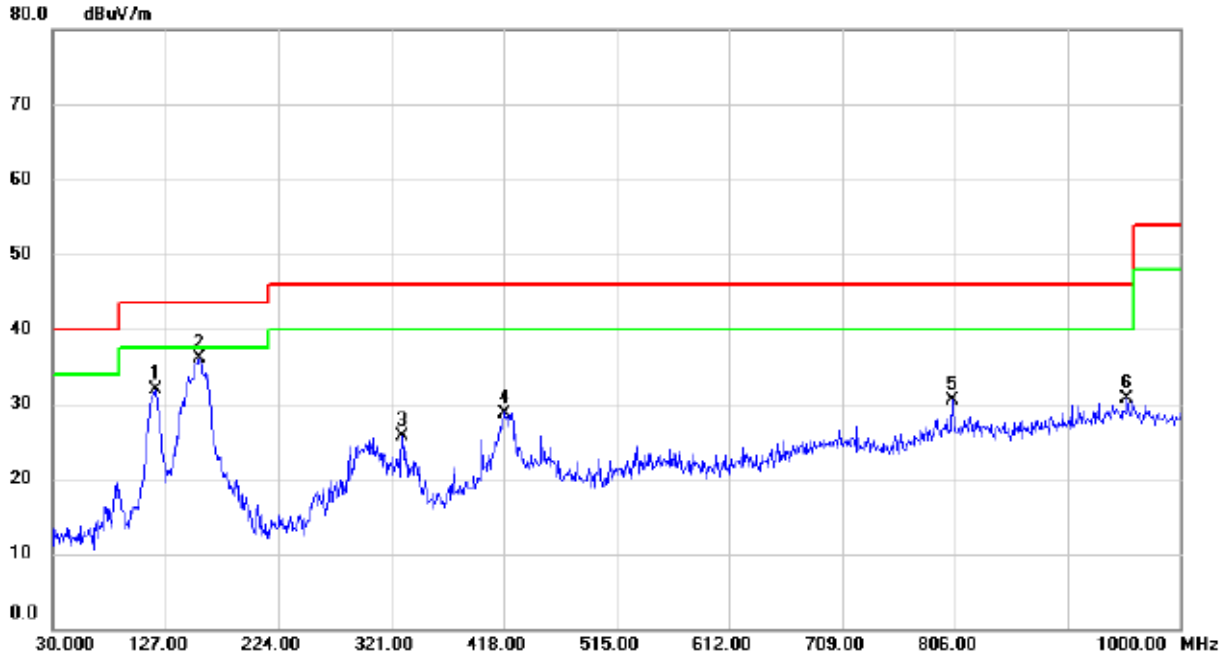
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	55.220	48.24	-15.00	33.24	40.00	-6.76	peak	
2		84.320	48.10	-19.05	29.05	40.00	-10.95	peak	
3		118.270	48.08	-14.97	33.11	43.50	-10.39	peak	
4		153.190	45.39	-11.20	34.19	43.50	-9.31	peak	
5		833.160	30.21	-1.56	28.65	46.00	-17.35	peak	
6		937.920	29.71	0.92	30.63	46.00	-15.37	peak	

Test Mode:	UNII-1/TX A Mode 5180MHz(Adapter:BN036-A12012U)

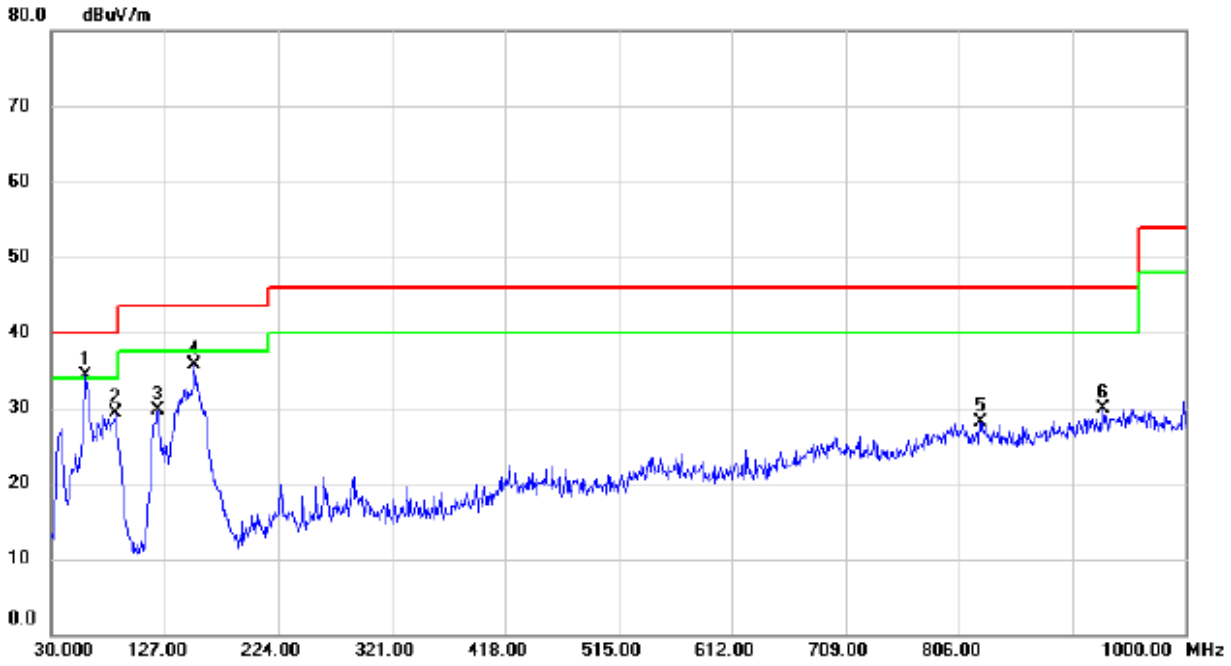
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		118.270	46.89	-14.97	31.92	43.50	-11.58	peak	
2	*	156.100	47.02	-10.94	36.08	43.50	-7.42	peak	
3		330.700	36.45	-10.80	25.65	46.00	-20.35	peak	
4		418.000	37.47	-8.67	28.80	46.00	-17.20	peak	
5		804.060	31.51	-1.10	30.41	46.00	-15.59	peak	
6		954.410	29.47	1.31	30.78	46.00	-15.22	peak	

Test Mode:	UNII-1/TX A Mode 5200MHz(Adapter:BN036-A12012U)

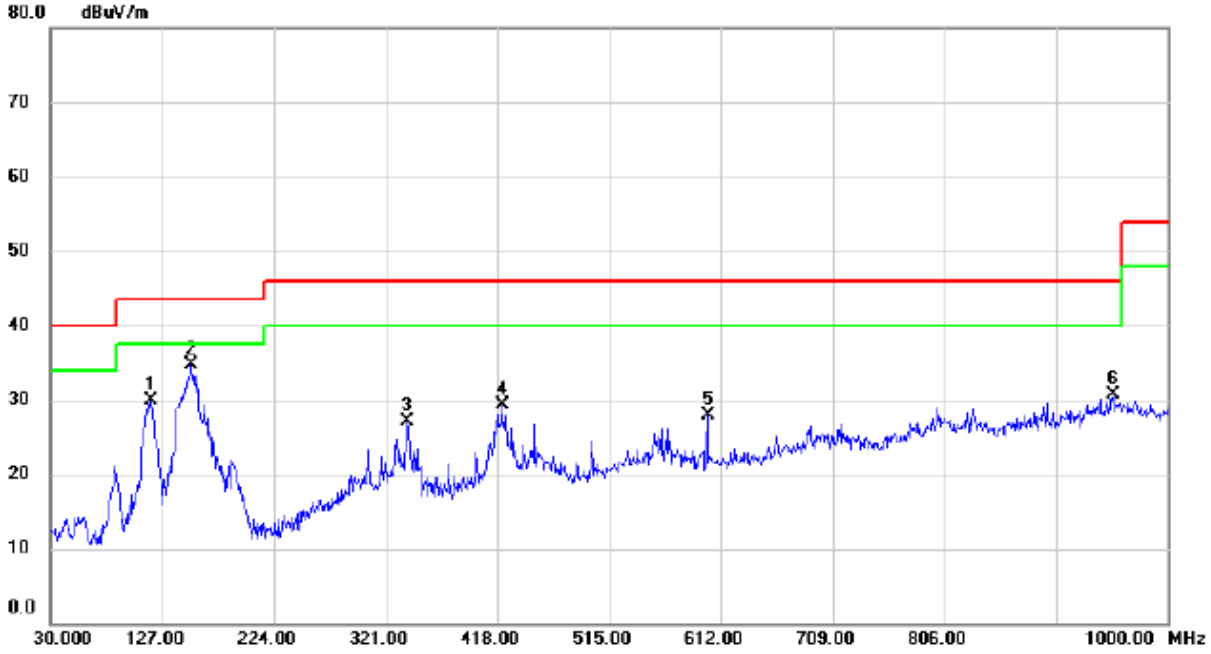
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	59.100	49.95	-15.55	34.40	40.00	-5.60	peak	
2		85.290	48.38	-19.15	29.23	40.00	-10.77	peak	
3		121.180	44.33	-14.54	29.79	43.50	-13.71	peak	
4		152.220	46.92	-11.29	35.63	43.50	-7.87	peak	
5		824.430	29.55	-1.42	28.13	46.00	-17.87	peak	
6		929.190	29.30	0.57	29.87	46.00	-16.13	peak	

Test Mode:	UNII-1/TX A Mode 5200MHz(Adapter:BN036-A12012U)

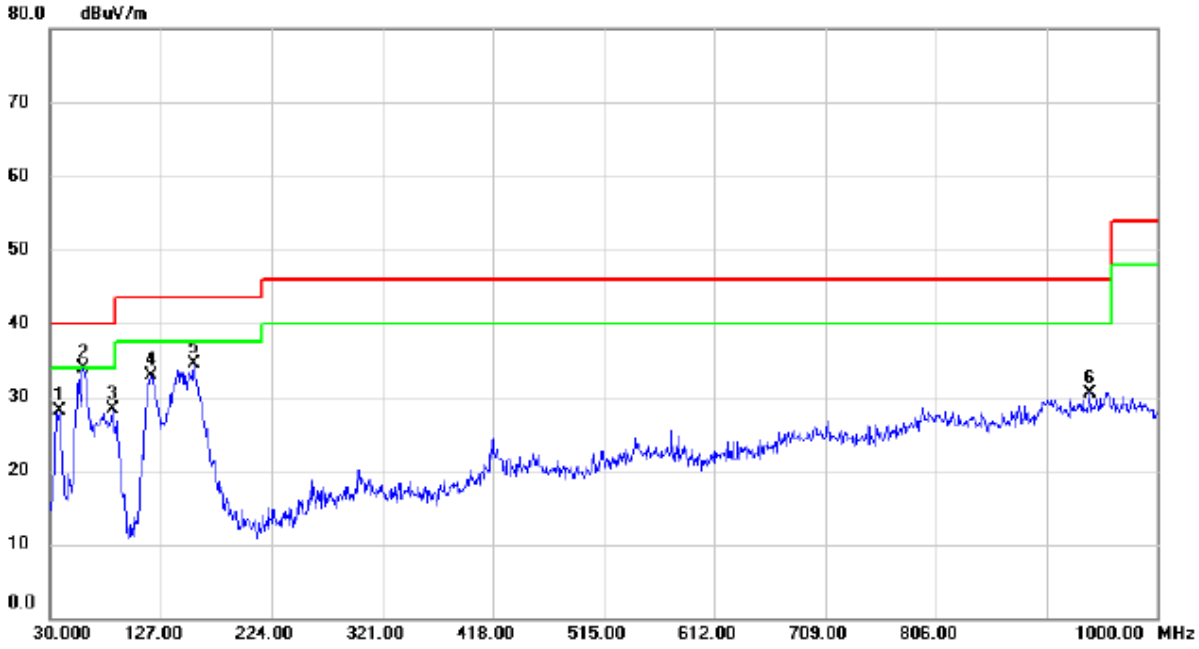
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		117.300	44.99	-15.12	29.87	43.50	-13.63	peak	
2	*	152.220	46.02	-11.29	34.73	43.50	-8.77	peak	
3		339.430	37.96	-10.92	27.04	46.00	-18.96	peak	
4		421.880	37.90	-8.51	29.39	46.00	-16.61	peak	
5		600.360	34.15	-6.29	27.86	46.00	-18.14	peak	
6		952.470	29.40	1.35	30.75	46.00	-15.25	peak	

Test Mode:	UNII-1/TX A Mode 5240MHz(Adapter:BN036-A12012U)

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		37.760	42.73	-14.71	28.02	40.00	-11.98	peak	
2	*	59.100	49.44	-15.55	33.89	40.00	-6.11	peak	
3		84.320	47.31	-19.05	28.26	40.00	-11.74	peak	
4		118.270	47.84	-14.97	32.87	43.50	-10.63	peak	
5		156.100	45.44	-10.94	34.50	43.50	-9.00	peak	
6		940.830	29.53	1.04	30.57	46.00	-15.43	peak	

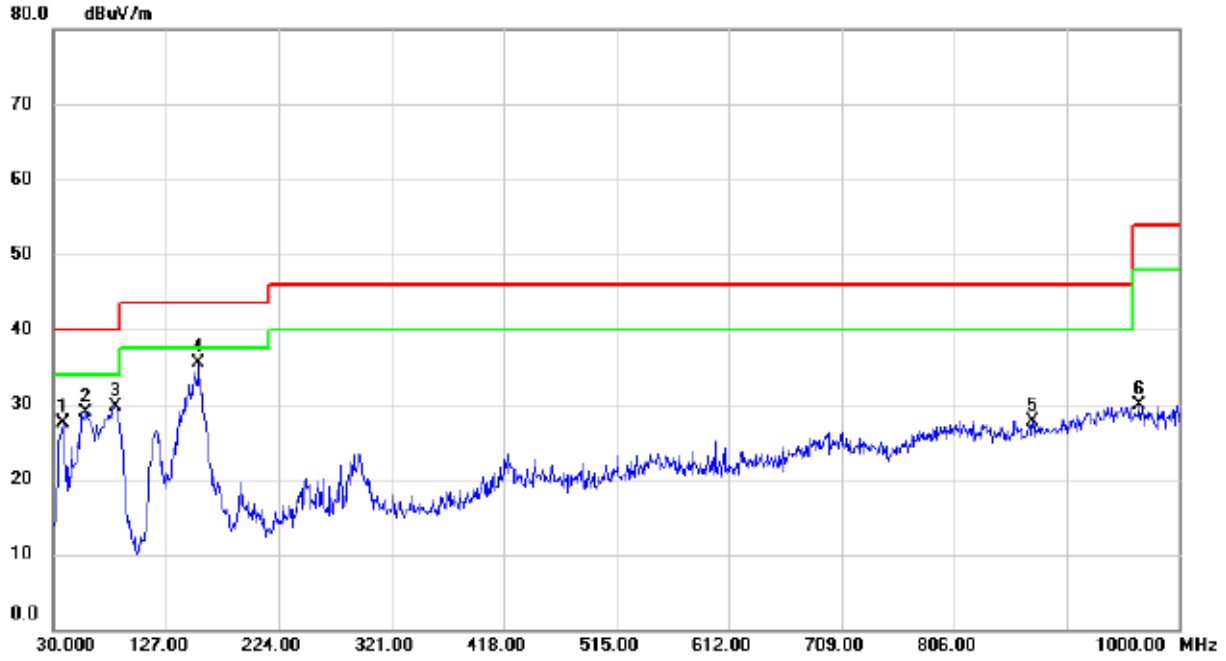
Test Mode:	UNII-1/TX A Mode 5240MHz (Adapter:BN036-A12012U)

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		118.270	47.96	-14.97	32.99	43.50	-10.51	peak	
2	*	153.190	46.65	-11.20	35.45	43.50	-8.05	peak	
3		289.960	41.68	-10.95	30.73	46.00	-15.27	peak	
4		424.790	39.99	-8.41	31.58	46.00	-14.42	peak	
5		901.060	29.30	-0.56	28.74	46.00	-17.26	peak	
6		944.710	29.15	1.20	30.35	46.00	-15.65	peak	

Test Mode:	UNII-3/TX A Mode 5745MHz(Adapter:BN036-A12012U)

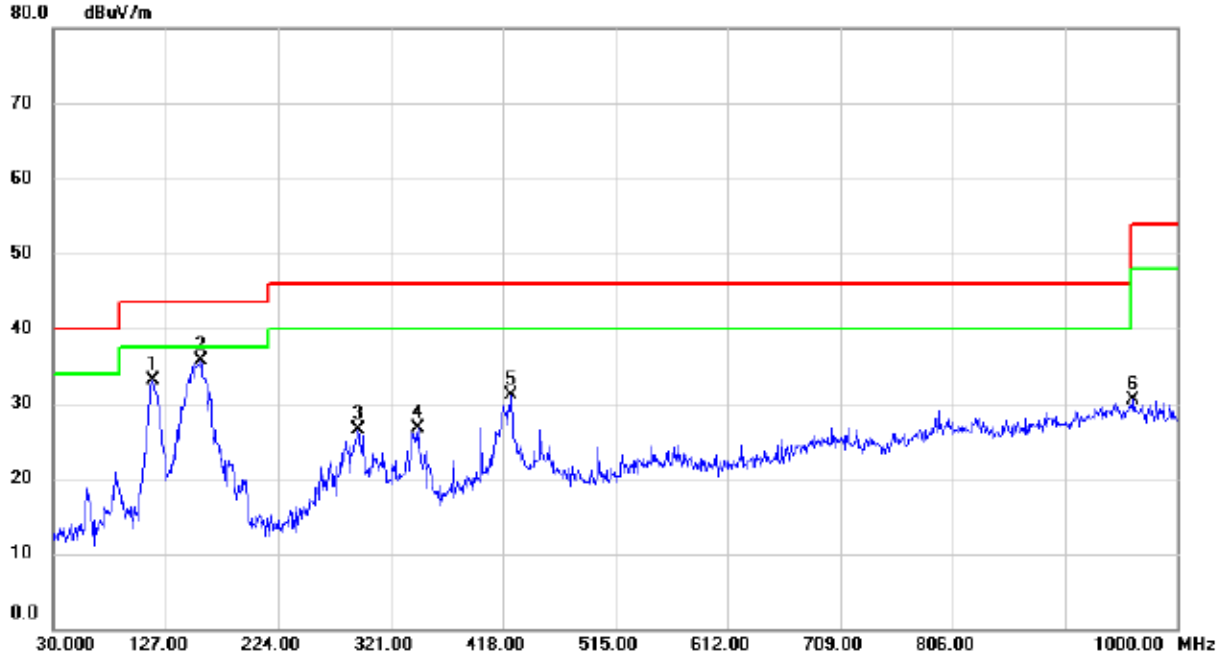
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		37.760	42.13	-14.71	27.42	40.00	-12.58	peak	
2		58.130	44.35	-15.43	28.92	40.00	-11.08	peak	
3		83.350	48.64	-18.95	29.69	40.00	-10.31	peak	
4	*	155.130	46.44	-11.03	35.41	43.50	-8.09	peak	
5		873.900	28.95	-1.24	27.71	46.00	-18.29	peak	
6		965.080	28.88	1.05	29.93	54.00	-24.07	peak	

Test Mode:	UNII-3/TX A Mode 5745MHz (Adapter:BN036-A12012U)

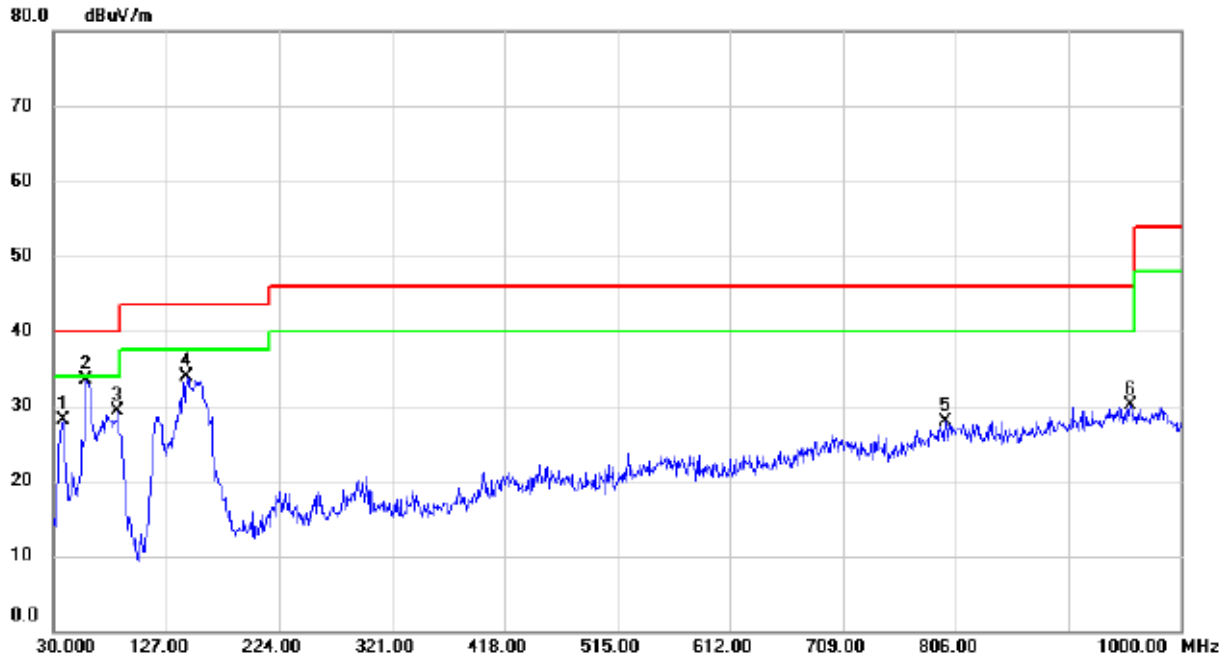
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		116.330	48.28	-15.27	33.01	43.50	-10.49	peak	
2	*	157.070	46.53	-10.86	35.67	43.50	-7.83	peak	
3		292.870	37.32	-10.79	26.53	46.00	-19.47	peak	
4		345.250	37.77	-11.00	26.77	46.00	-19.23	peak	
5		424.790	39.48	-8.41	31.07	46.00	-14.93	peak	
6		962.170	29.44	1.12	30.56	54.00	-23.44	peak	

Test Mode:	UNII-3/TX A Mode 5785MHz (Adapter:BN036-A12012U)

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		37.760	42.77	-14.71	28.06	40.00	-11.94	peak	
2	*	58.130	48.88	-15.43	33.45	40.00	-6.55	peak	
3		85.290	48.37	-19.15	29.22	40.00	-10.78	peak	
4		144.460	45.67	-11.83	33.84	43.50	-9.66	peak	
5		797.270	29.06	-1.20	27.86	46.00	-18.14	peak	
6		956.350	28.77	1.26	30.03	46.00	-15.97	peak	

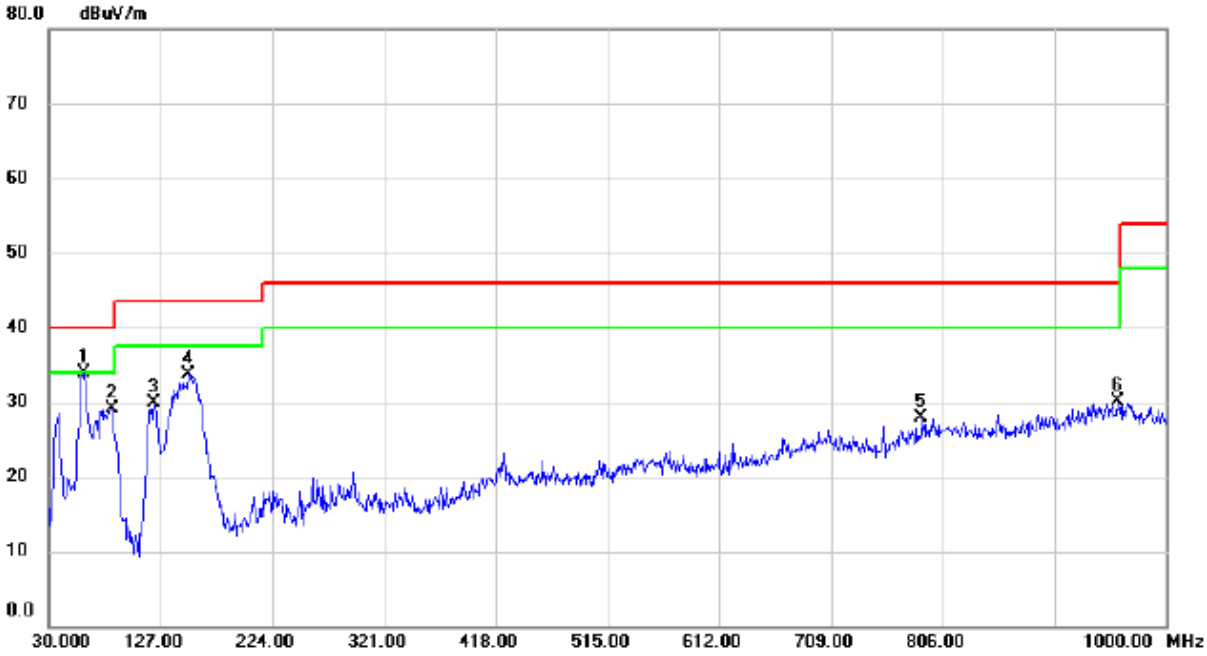
Test Mode:	UNII-3/TX A Mode 5785MHz(Adapter:BN036-A12012U)

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		113.420	46.53	-15.74	30.79	43.50	-12.71	peak	
2	*	151.250	48.91	-11.39	37.52	43.50	-5.98	peak	
3		300.630	42.62	-10.38	32.24	46.00	-13.76	peak	
4		422.850	39.72	-8.49	31.23	46.00	-14.77	peak	
5		816.670	30.65	-1.30	29.35	46.00	-16.65	peak	
6		949.560	29.18	1.39	30.57	46.00	-15.43	peak	

Test Mode:	UNII-3/TX A Mode 5825MHz(Adapter:BN036-A12012U)

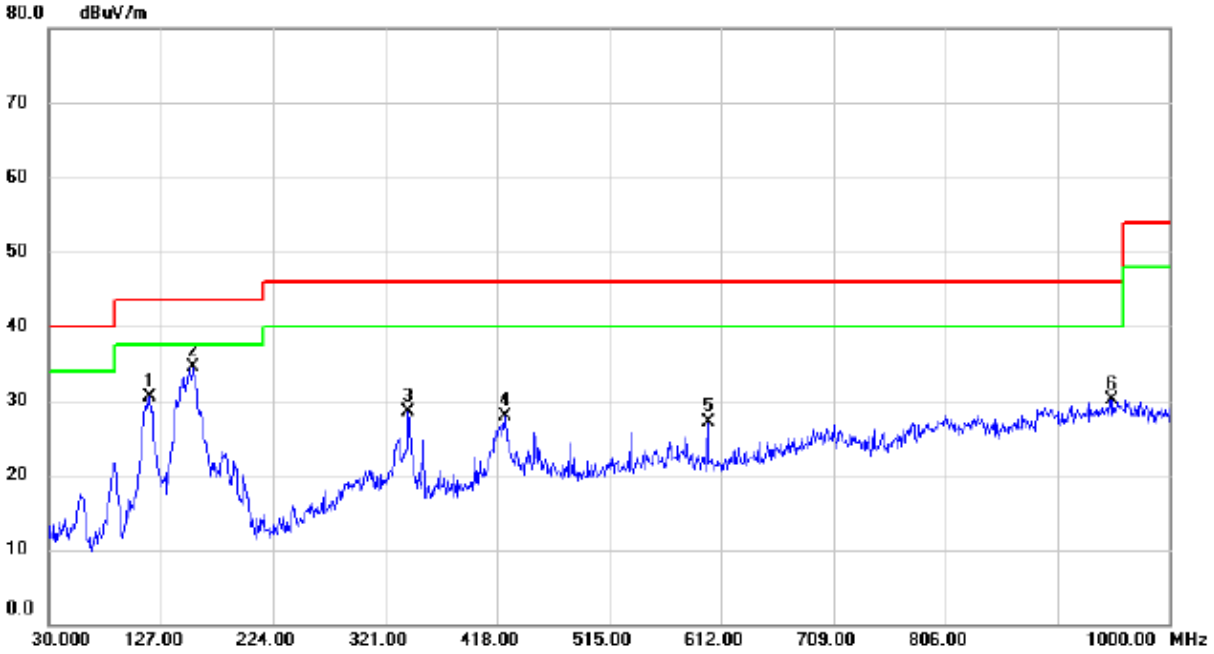
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	60.070	49.51	-15.69	33.82	40.00	-6.18	peak	
2		84.320	48.09	-19.05	29.04	40.00	-10.96	peak	
3		121.180	44.35	-14.54	29.81	43.50	-13.69	peak	
4		150.280	45.21	-11.47	33.74	43.50	-9.76	peak	
5		787.570	29.76	-1.79	27.97	46.00	-18.03	peak	
6		957.320	28.91	1.23	30.14	46.00	-15.86	peak	

Test Mode:	UNII-3/TX A Mode 5825MHz (Adapter:BN036-A12012U)

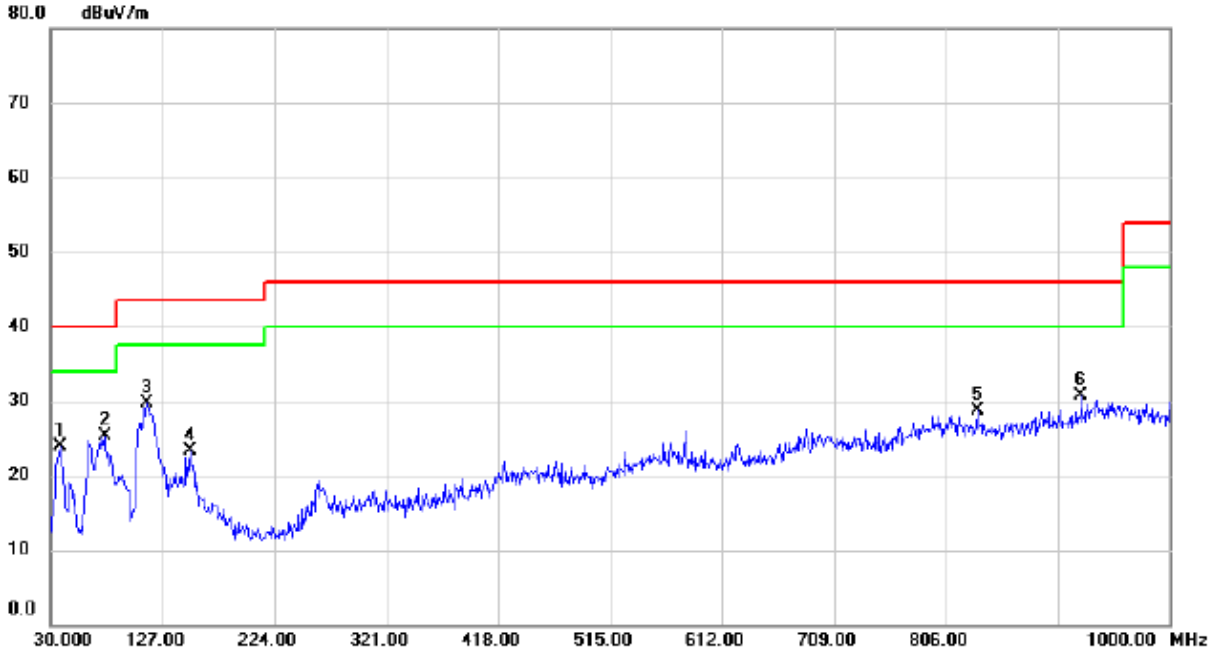
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		117.300	45.62	-15.12	30.50	43.50	-13.00	peak	
2	*	155.130	45.52	-11.03	34.49	43.50	-9.01	peak	
3		341.370	39.41	-10.95	28.46	46.00	-17.54	peak	
4		424.790	36.40	-8.41	27.99	46.00	-18.01	peak	
5		600.360	33.32	-6.29	27.03	46.00	-18.97	peak	
6		950.530	28.80	1.40	30.20	46.00	-15.80	peak	

Test Mode:	UNII-1/TX A Mode 5180MHz(Adapter:BN071-A12012U)

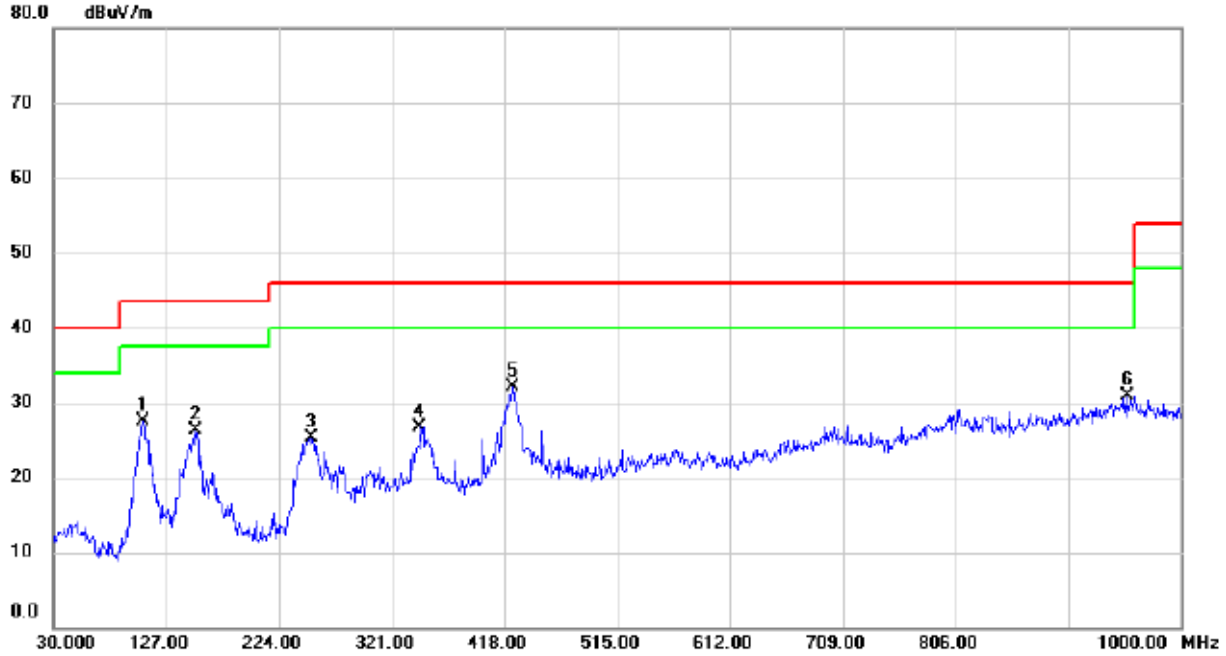
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		37.760	38.56	-14.71	23.85	40.00	-16.15	peak	
2		76.560	43.77	-18.47	25.30	40.00	-14.70	peak	
3	*	113.420	45.40	-15.74	29.66	43.50	-13.84	peak	
4		150.280	34.76	-11.47	23.29	43.50	-20.21	peak	
5		833.160	30.29	-1.56	28.73	46.00	-17.27	peak	
6		923.370	30.45	0.34	30.79	46.00	-15.21	peak	

Test Mode:	UNII-1/TX A Mode 5180MHz(Adapter:BN071-A12012U)

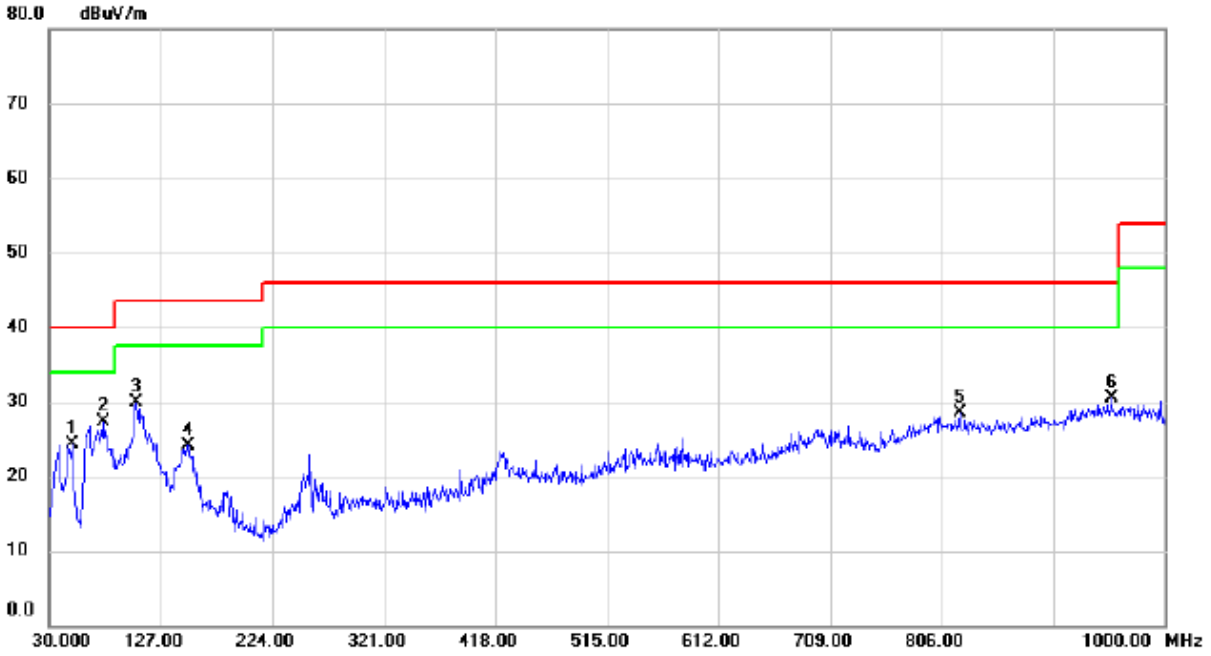
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		106.630	44.37	-16.96	27.41	43.50	-16.09	peak	
2		152.220	37.59	-11.29	26.30	43.50	-17.20	peak	
3		251.160	39.41	-14.20	25.21	46.00	-20.79	peak	
4		345.250	37.80	-11.00	26.80	46.00	-19.20	peak	
5	*	424.790	40.50	-8.41	32.09	46.00	-13.91	peak	
6		953.440	29.64	1.33	30.97	46.00	-15.03	peak	

Test Mode:	UNII-1/TX A Mode 5200MHz (Adapter:BN071-A12012U)

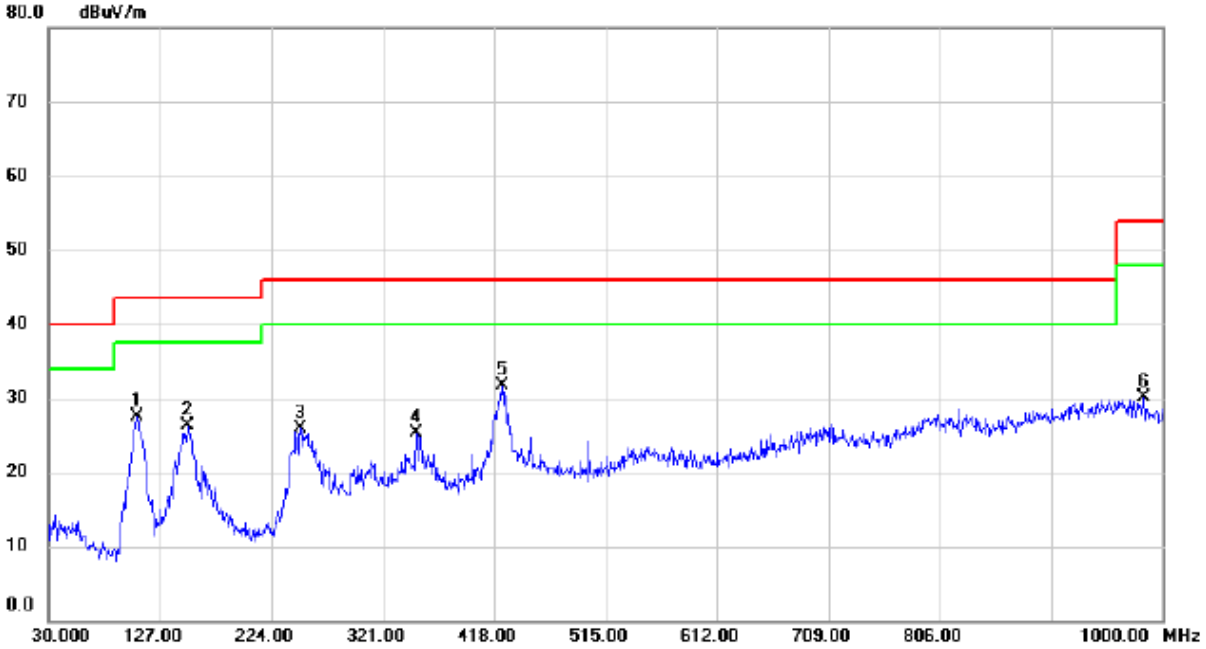
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		49.400	39.03	-14.81	24.22	40.00	-15.78	peak	
2	*	77.530	45.85	-18.49	27.36	40.00	-12.64	peak	
3		105.660	47.00	-17.14	29.86	43.50	-13.64	peak	
4		151.250	35.55	-11.39	24.16	43.50	-19.34	peak	
5		821.520	29.86	-1.38	28.48	46.00	-17.52	peak	
6		953.440	29.10	1.33	30.43	46.00	-15.57	peak	

Test Mode:	UNII-1/TX A Mode 5200MHz(Adapter:BN071-A12012U)

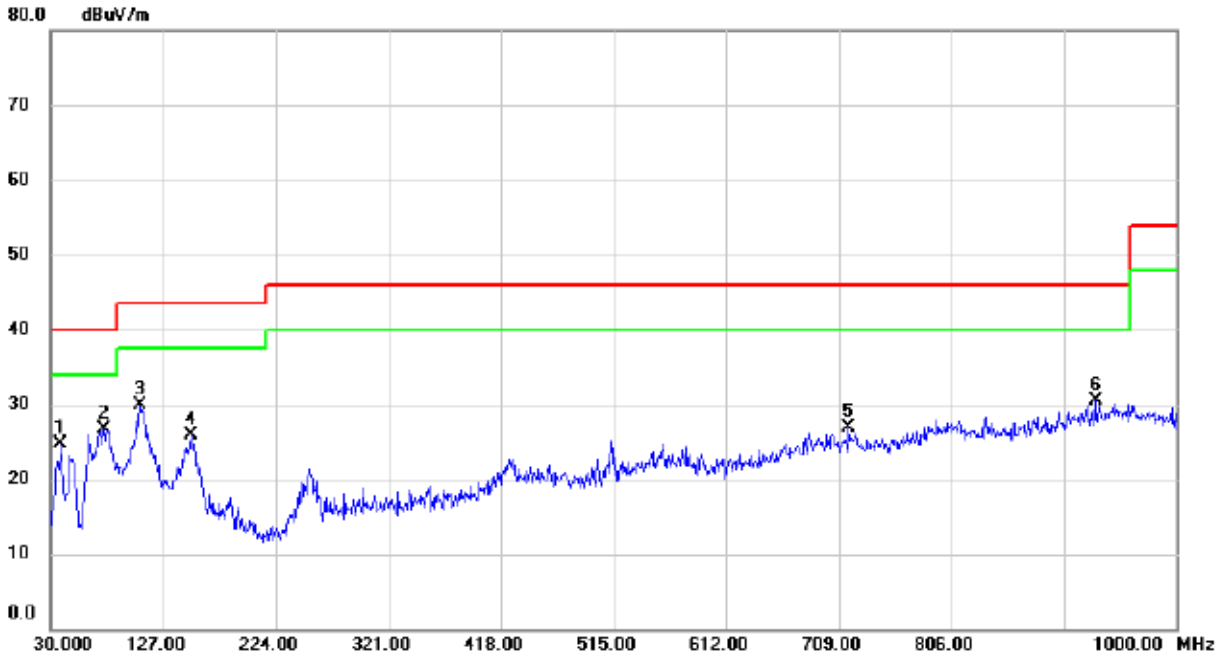
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		106.630	44.39	-16.96	27.43	43.50	-16.07	peak	
2		151.250	37.67	-11.39	26.28	43.50	-17.22	peak	
3		249.220	40.19	-14.31	25.88	46.00	-20.12	peak	
4		350.100	36.30	-11.08	25.22	46.00	-20.78	peak	
5	*	424.790	40.17	-8.41	31.76	46.00	-14.24	peak	
6		983.510	29.46	0.61	30.07	54.00	-23.93	peak	

Test Mode:	UNII-1/TX A Mode 5240MHz(Adapter:BN071-A12012U)

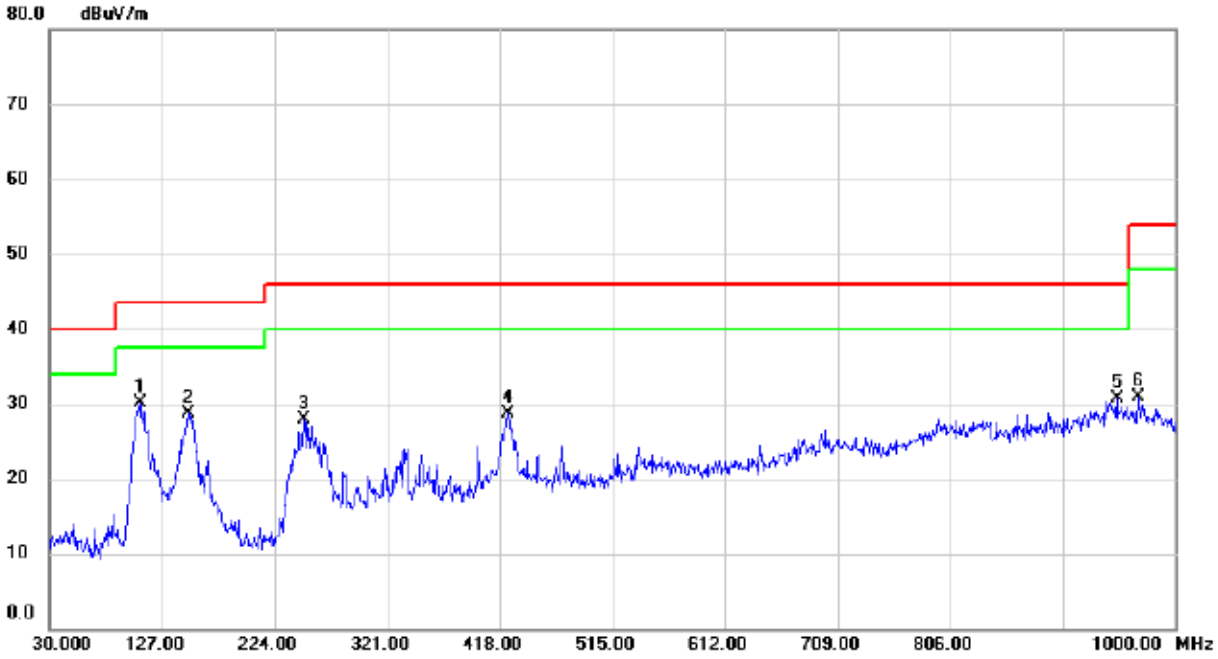
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		38.730	39.28	-14.66	24.62	40.00	-15.38	peak	
2	*	75.590	45.09	-18.44	26.65	40.00	-13.35	peak	
3		106.630	46.85	-16.96	29.89	43.50	-13.61	peak	
4		150.280	37.32	-11.47	25.85	43.50	-17.65	peak	
5		717.730	30.11	-3.20	26.91	46.00	-19.09	peak	
6		930.160	29.83	0.62	30.45	46.00	-15.55	peak	

Test Mode:	UNII-1/TX A Mode 5240MHz (Adapter:BN071-A12012U)

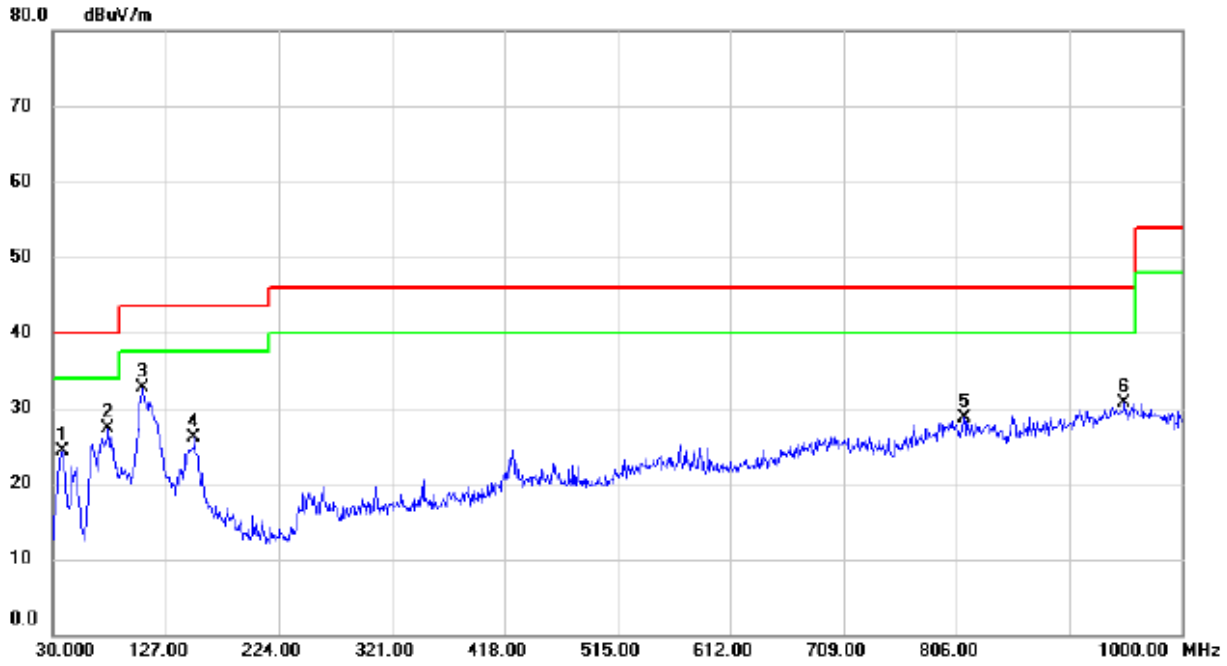
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	108.570	46.60	-16.56	30.04	43.50	-13.46	peak	
2		149.310	40.26	-11.53	28.73	43.50	-14.77	peak	
3		249.220	42.26	-14.31	27.95	46.00	-18.05	peak	
4		424.790	37.04	-8.41	28.63	46.00	-17.37	peak	
5		949.560	29.38	1.39	30.77	46.00	-15.23	peak	
6		967.990	29.87	0.98	30.85	54.00	-23.15	peak	

Test Mode:	UNII-3/TX A Mode 5745MHz(Adapter:BN071-A12012U)

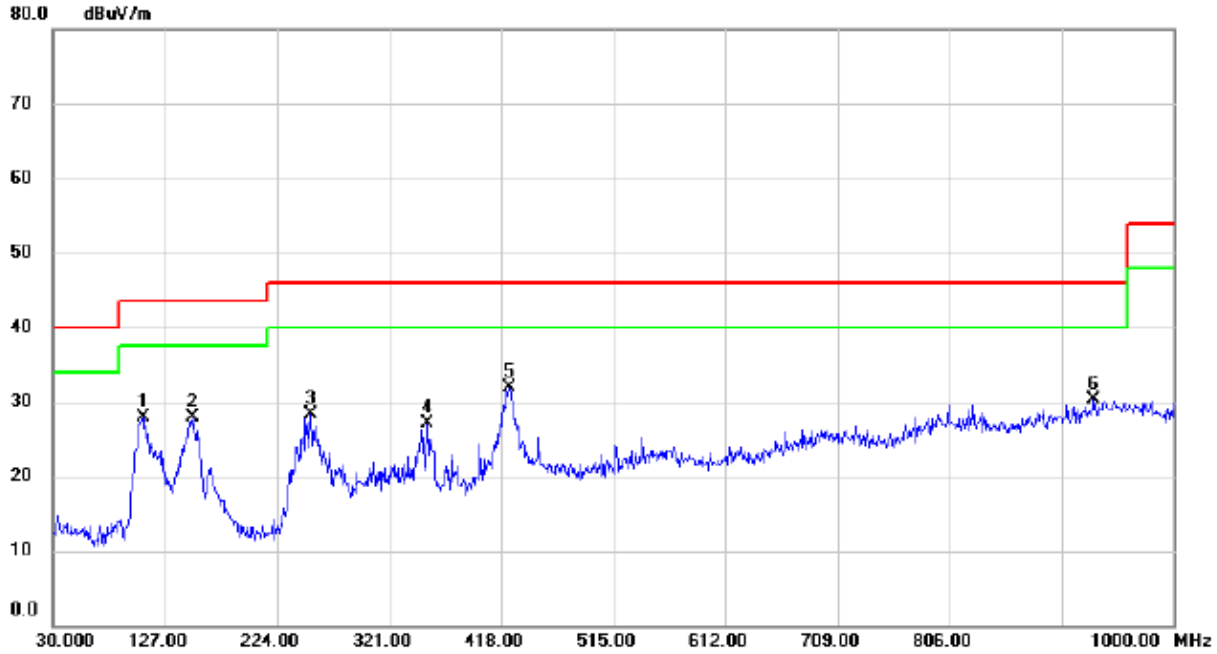
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		38.730	39.00	-14.66	24.34	40.00	-15.66	peak	
2		77.530	45.78	-18.49	27.29	40.00	-12.71	peak	
3	*	106.630	49.67	-16.96	32.71	43.50	-10.79	peak	
4		151.250	37.46	-11.39	26.07	43.50	-17.43	peak	
5		812.790	29.86	-1.24	28.62	46.00	-17.38	peak	
6		950.530	29.26	1.40	30.66	46.00	-15.34	peak	

Test Mode:	UNII-3/TX A Mode 5745MHz(Adapter:BN071-A12012U)

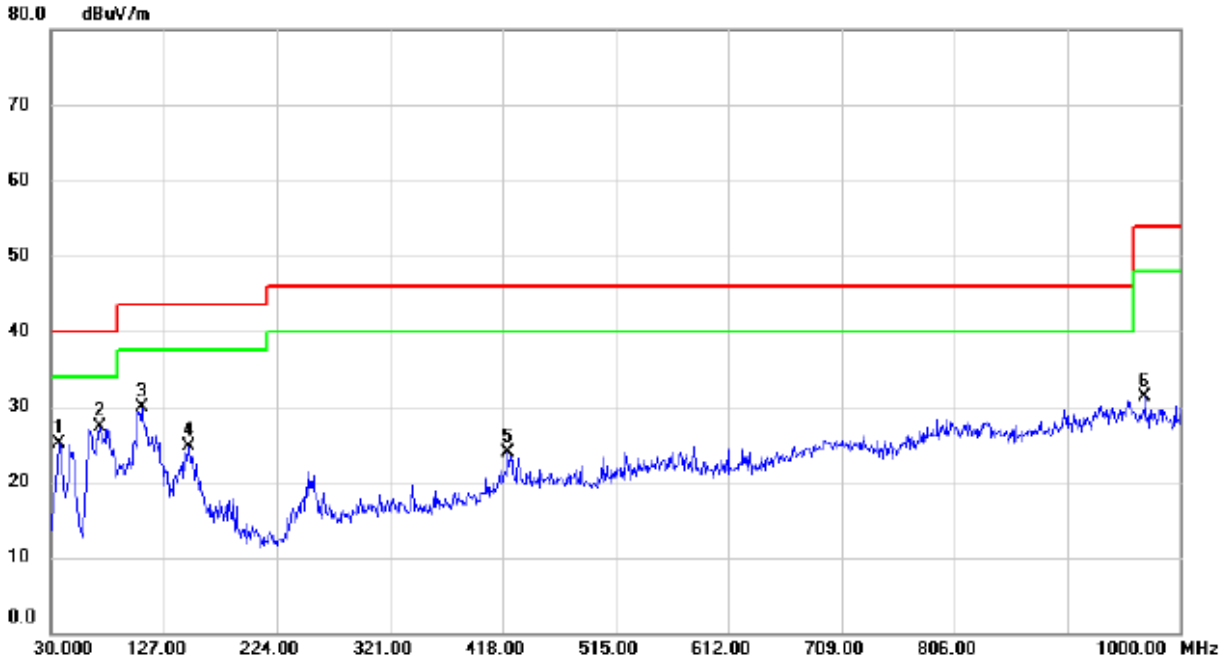
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		107.600	44.67	-16.77	27.90	43.50	-15.60	peak	
2		151.250	39.24	-11.39	27.85	43.50	-15.65	peak	
3		253.100	42.30	-14.04	28.26	46.00	-17.74	peak	
4		353.980	38.08	-10.94	27.14	46.00	-18.86	peak	
5	*	424.790	40.36	-8.41	31.95	46.00	-14.05	peak	
6		931.130	29.57	0.66	30.23	46.00	-15.77	peak	

Test Mode:	UNII-3/TX A Mode 5785MHz(Adapter:BN071-A12012U)

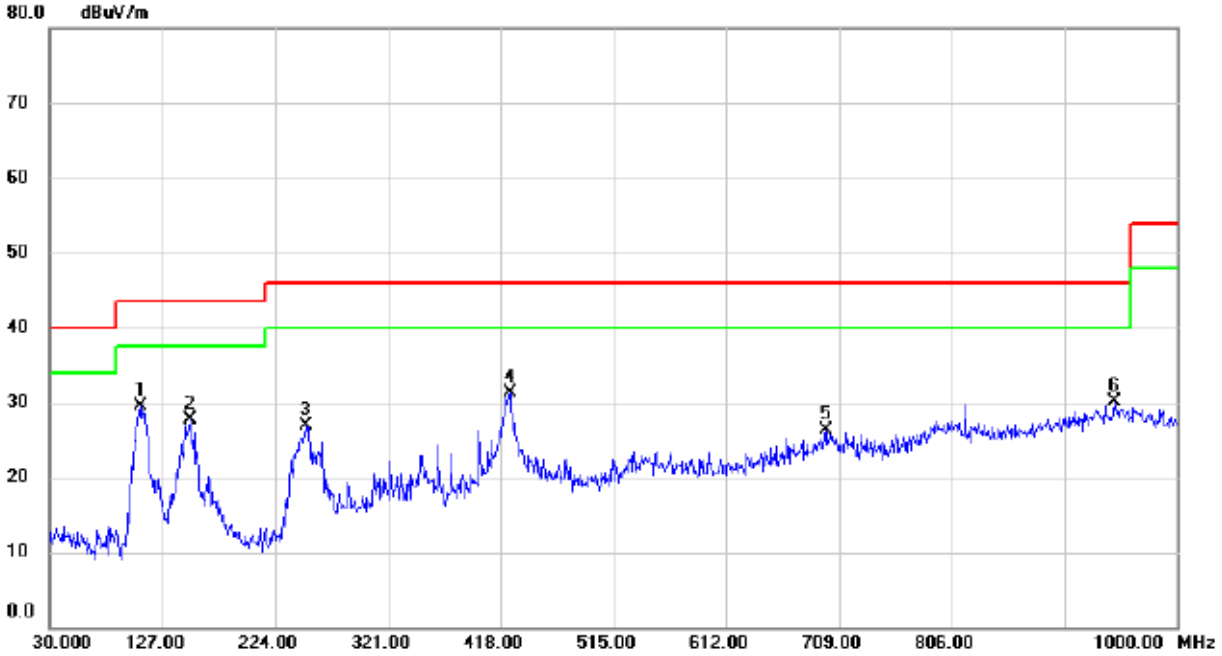
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		36.790	40.00	-14.86	25.14	40.00	-14.86	peak	
2	*	71.710	44.98	-17.73	27.25	40.00	-12.75	peak	
3		107.600	46.60	-16.77	29.83	43.50	-13.67	peak	
4		148.340	36.30	-11.59	24.71	43.50	-18.79	peak	
5		422.850	32.45	-8.49	23.96	46.00	-22.04	peak	
6		969.930	30.46	0.93	31.39	54.00	-22.61	peak	

Test Mode:	UNII-3/TX A Mode 5785MHz(Adapter:BN071-A12012U)

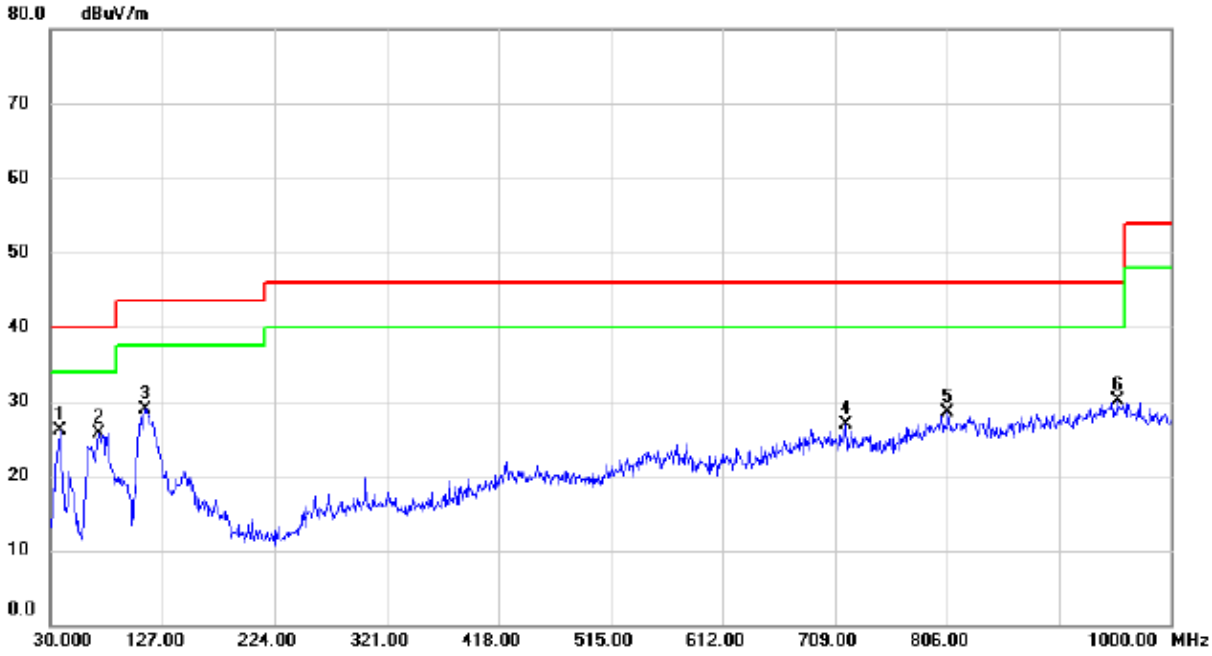
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	108.570	45.99	-16.56	29.43	43.50	-14.07	peak	
2		150.280	39.17	-11.47	27.70	43.50	-15.80	peak	
3		250.190	41.19	-14.28	26.91	46.00	-19.09	peak	
4		425.760	39.57	-8.36	31.21	46.00	-14.79	peak	
5		697.360	29.18	-2.88	26.30	46.00	-19.70	peak	
6		945.680	28.93	1.23	30.16	46.00	-15.84	peak	

Test Mode:	UNII-3/TX A Mode 5825MHz(Adapter:BN071-A12012U)

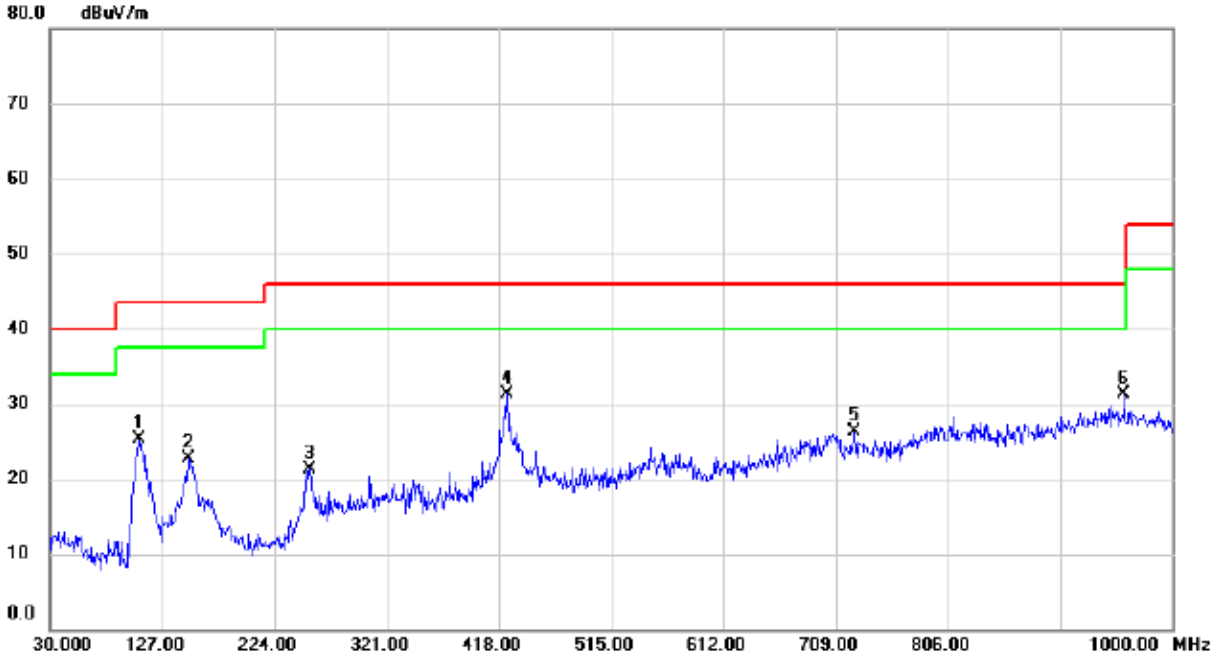
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	37.760	40.79	-14.71	26.08	40.00	-13.92	peak	
2		71.710	43.49	-17.73	25.76	40.00	-14.24	peak	
3		112.450	44.86	-15.89	28.97	43.50	-14.53	peak	
4		718.700	30.05	-3.23	26.82	46.00	-19.18	peak	
5		806.970	29.56	-1.14	28.42	46.00	-17.58	peak	
6		953.440	28.82	1.33	30.15	46.00	-15.85	peak	

Test Mode:	UNII-3/TX A Mode 5825MHz (Adapter:BN071-A12012U)

Horizontal

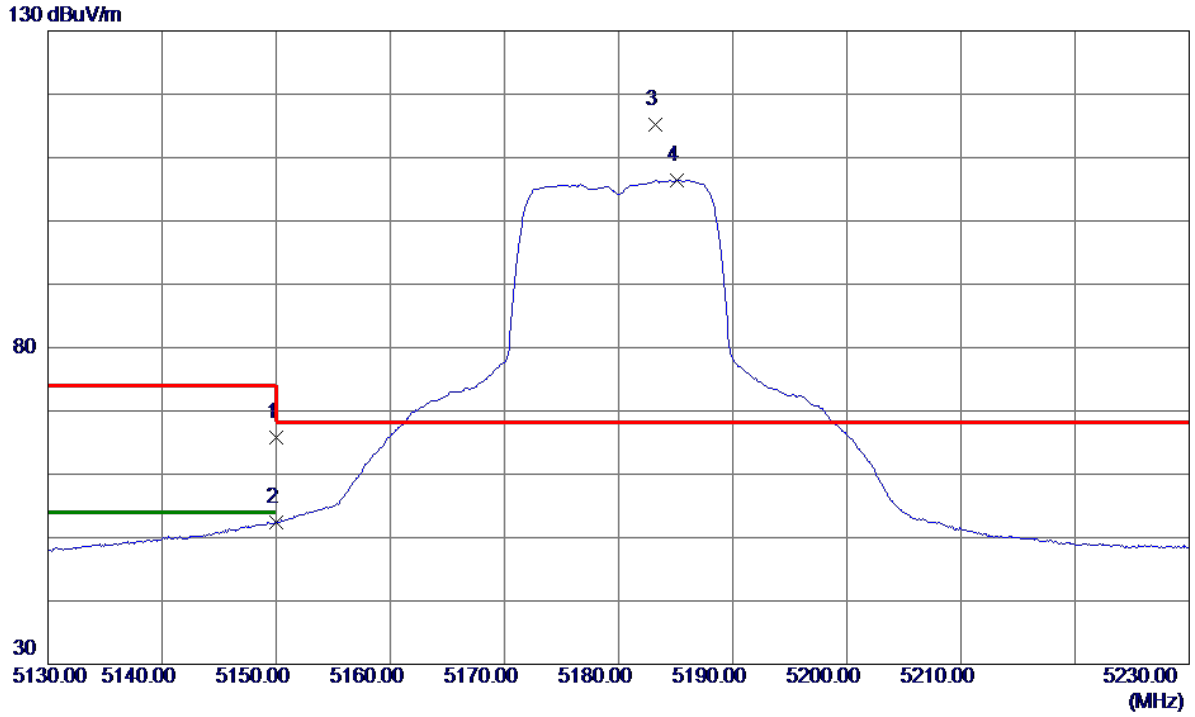


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		106.630	42.20	-16.96	25.24	43.50	-18.26	peak	
2		149.310	34.31	-11.53	22.78	43.50	-20.72	peak	
3		254.070	35.32	-13.98	21.34	46.00	-24.66	peak	
4	*	424.790	39.68	-8.41	31.27	46.00	-14.73	peak	
5		725.490	29.64	-3.41	26.23	46.00	-19.77	peak	
6		958.290	30.02	1.22	31.24	46.00	-14.76	peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	44.82	21.03	65.85	74.00	-8.15	Peak	
2	5150.0000	31.30	21.03	52.33	54.00	-1.67	AVG	
3 *	5183.2000	94.02	21.15	115.17	68.30	46.87	Peak	No Limit
4	5185.1000	85.25	21.16	106.41	999.00	-892.59	AVG	No Limit

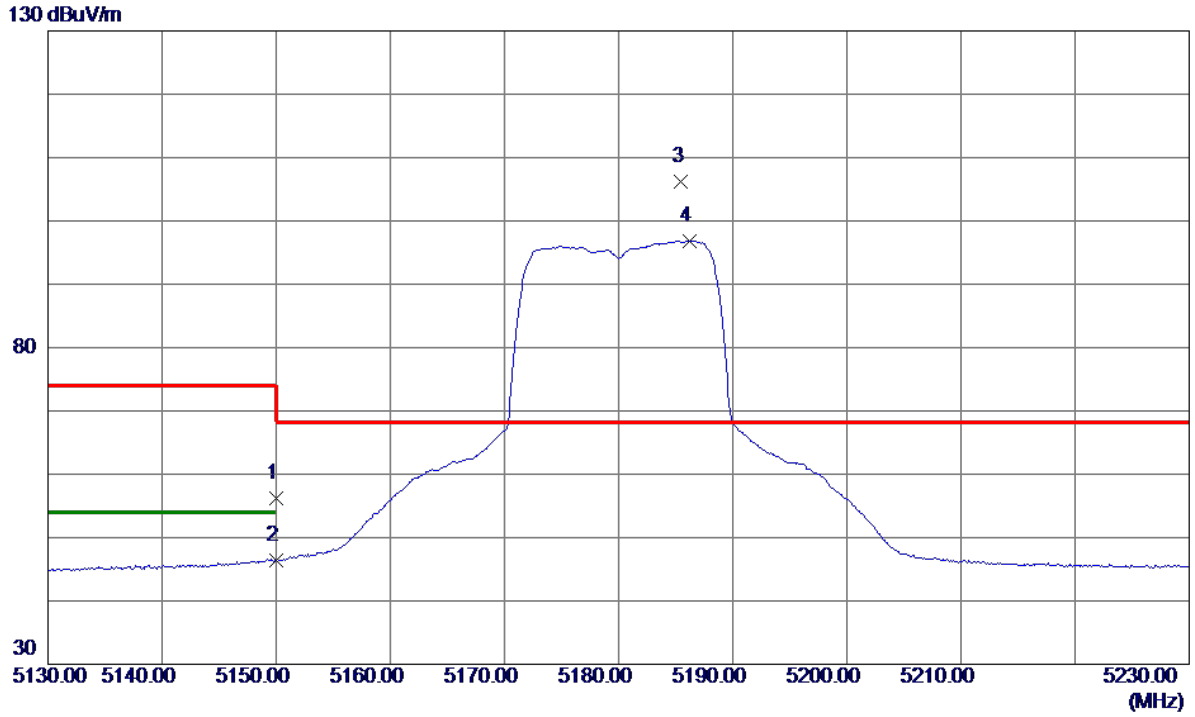
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10362.2800	35.85	20.28	56.13	68.30	-12.17	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	35.17	21.03	56.20	74.00	-17.80	Peak	
2	5150.0000	25.45	21.03	46.48	54.00	-7.52	AVG	
3 *	5185.5000	85.11	21.16	106.27	68.30	37.97	Peak	No Limit
4	5186.2000	75.73	21.16	96.89	999.00	-902.11	AVG	No Limit

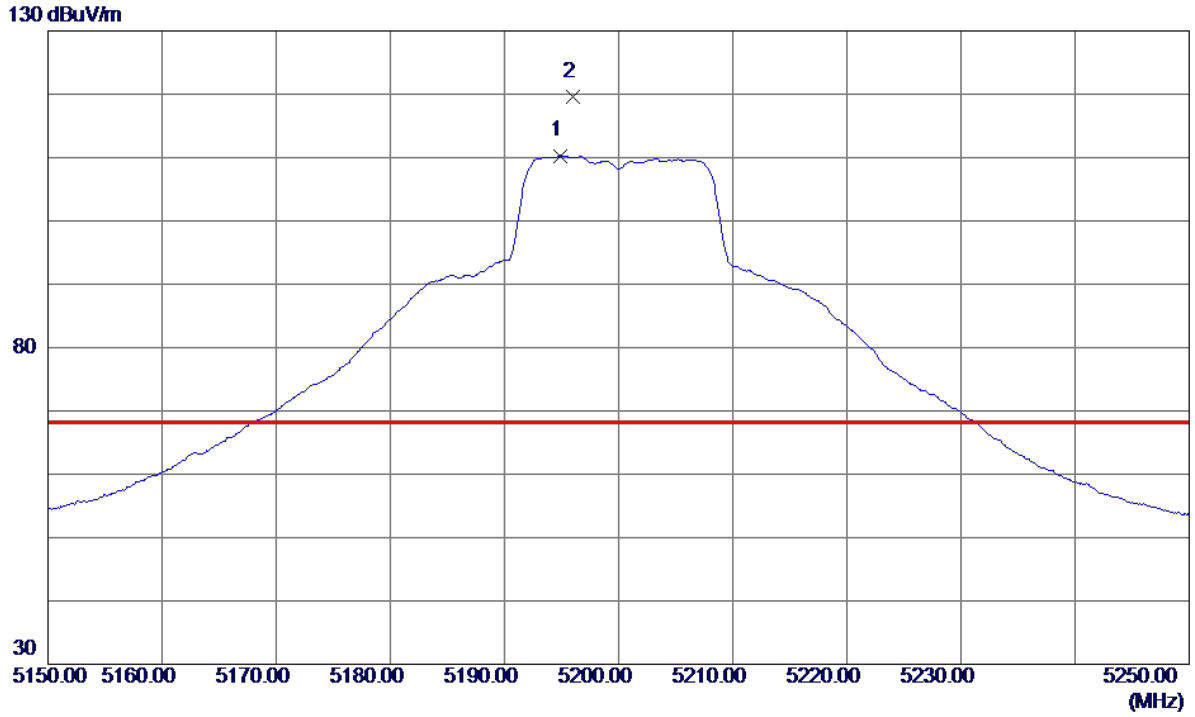
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10362.3600	31.01	20.28	51.29	68.30	-17.01	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5194.9000	89.10	21.20	110.30	999.00	-888.70	AVG	No Limit
2 *	5196.0000	98.36	21.20	119.56	68.30	51.26	Peak	No Limit

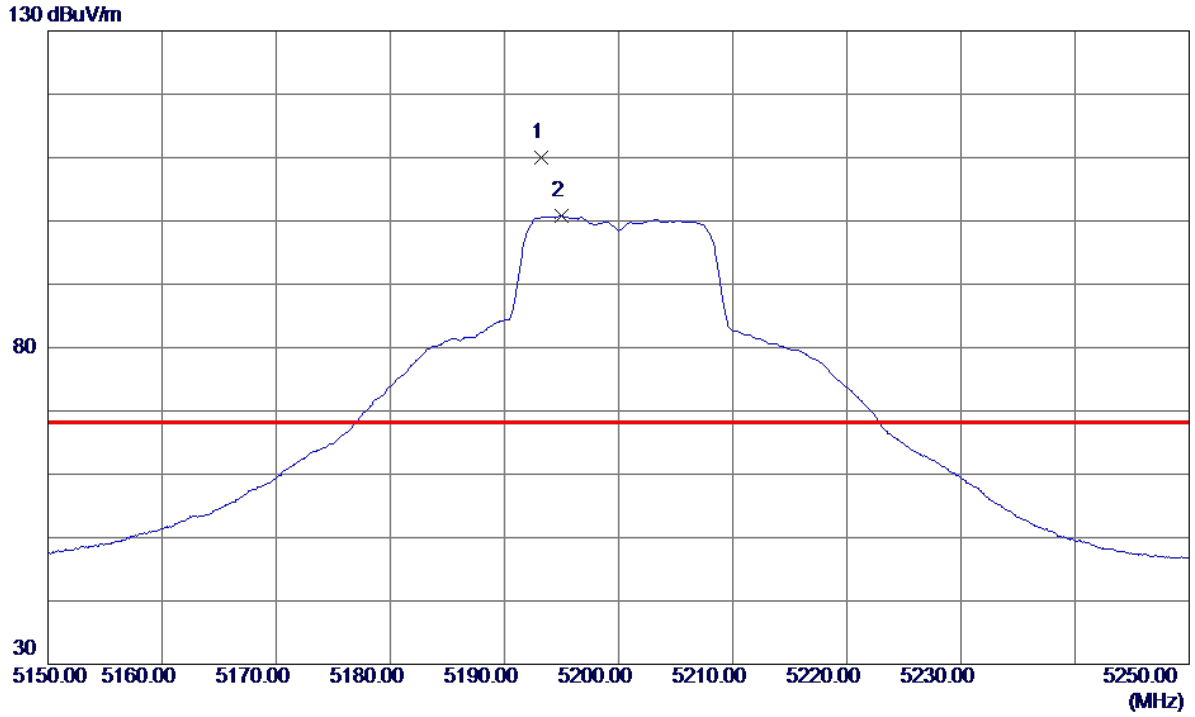
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10401.6800	33.54	20.33	53.87	68.30	-14.43	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5193.2000	88.88	21.19	110.07	68.30	41.77	Peak	No Limit
2	5195.0000	79.60	21.20	100.80	999.00	-898.20	AVG	No Limit

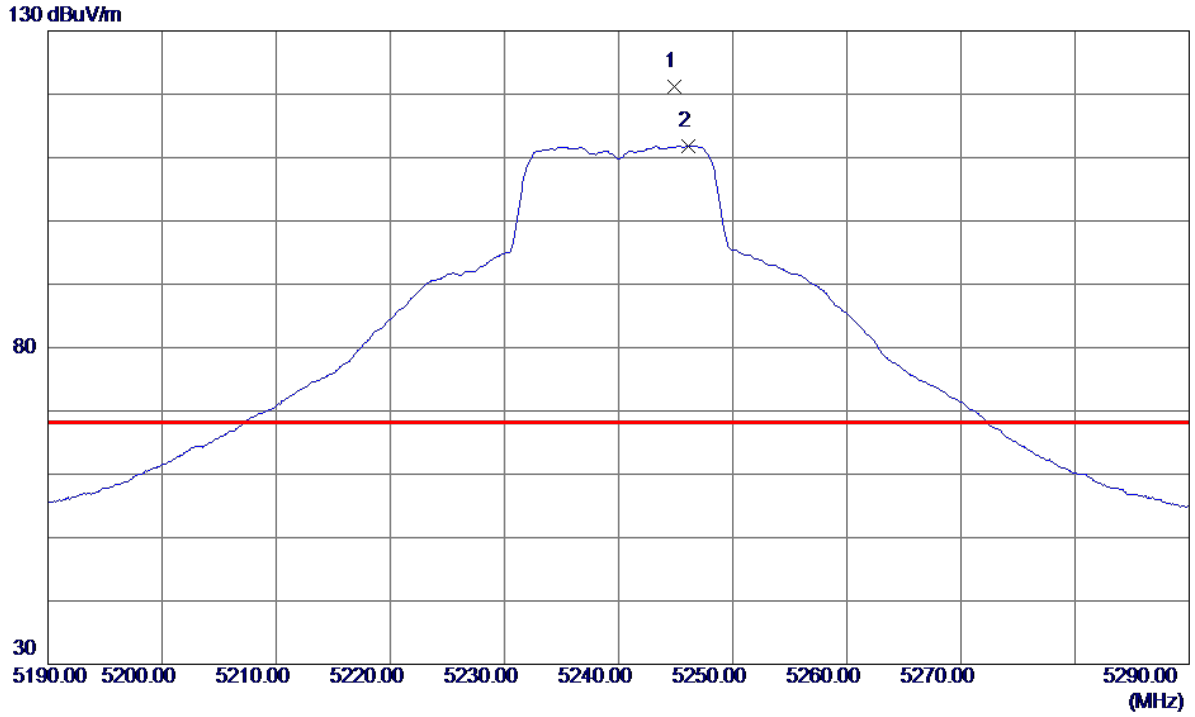
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10397.1000	31.61	20.33	51.94	68.30	-16.36	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5244.9000	99.74	21.38	121.12	68.30	52.82	Peak	No Limit
2	5246.1000	90.48	21.38	111.86	999.00	-887.14	AVG	No Limit

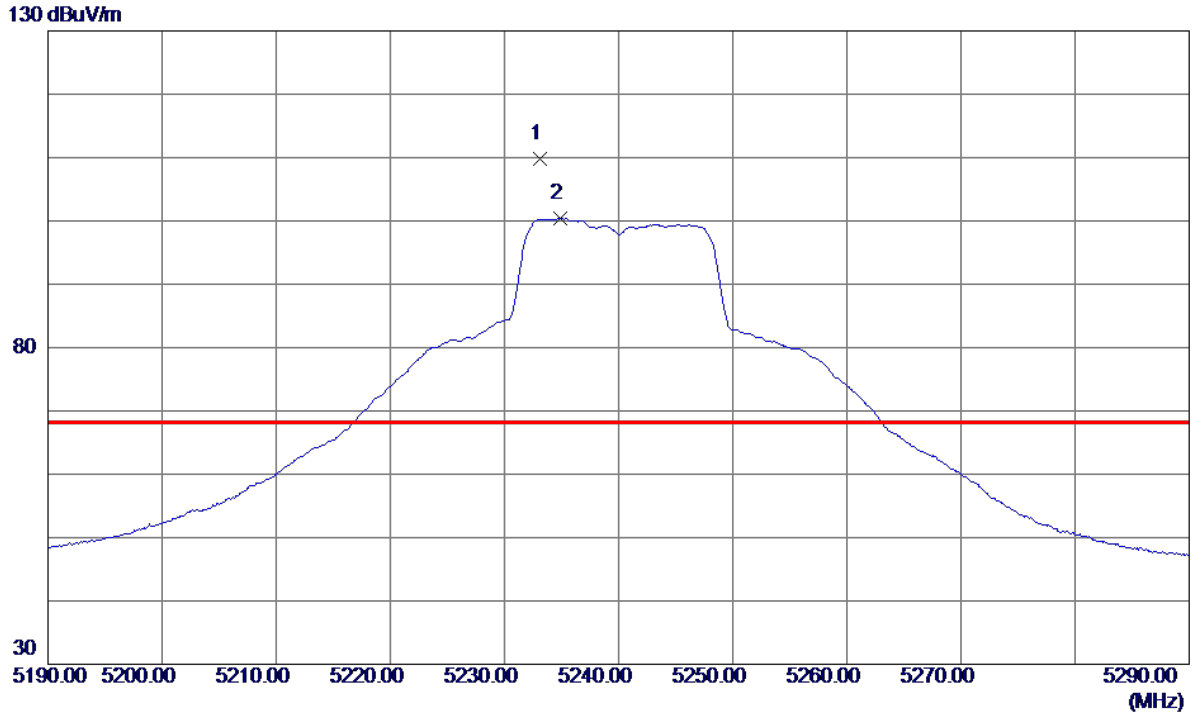
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10482.3000	34.64	20.44	55.08	68.30	-13.22	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5233.1000	88.50	21.33	109.83	68.30	41.53	Peak	No Limit
2	5234.9000	79.10	21.34	100.44	999.00	-898.56	AVG	No Limit

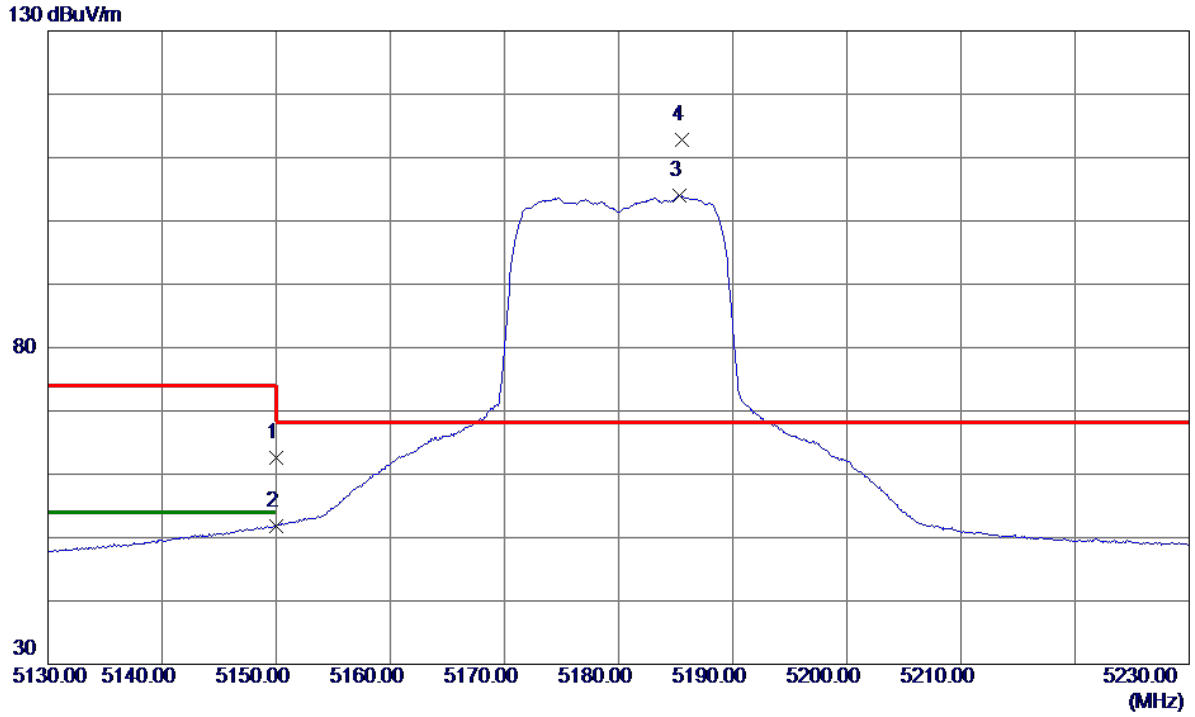
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10479.6400	32.08	20.44	52.52	68.30	-15.78	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	41.50	21.03	62.53	74.00	-11.47	Peak	
2	5150.0000	30.75	21.03	51.78	54.00	-2.22	AVG	
3	5185.3000	82.80	21.16	103.96	999.00	-895.04	AVG	No Limit
4 *	5185.6000	91.72	21.16	112.88	68.30	44.58	Peak	No Limit

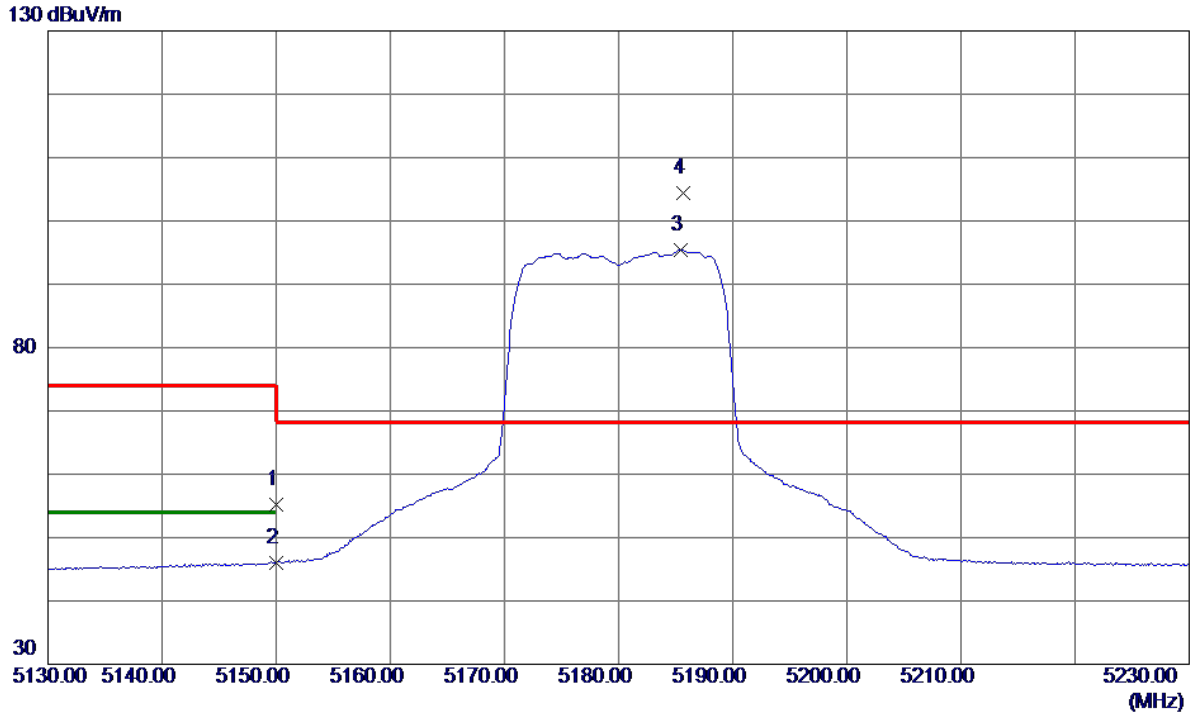
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360.3200	33.23	20.28	53.51	68.30	-14.79	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	34.24	21.03	55.27	74.00	-18.73	Peak	
2	5150.0000	25.04	21.03	46.07	54.00	-7.93	AVG	
3	5185.4000	74.32	21.16	95.48	999.00	-903.52	AVG	No Limit
4 *	5185.7000	83.15	21.16	104.31	68.30	36.01	Peak	No Limit

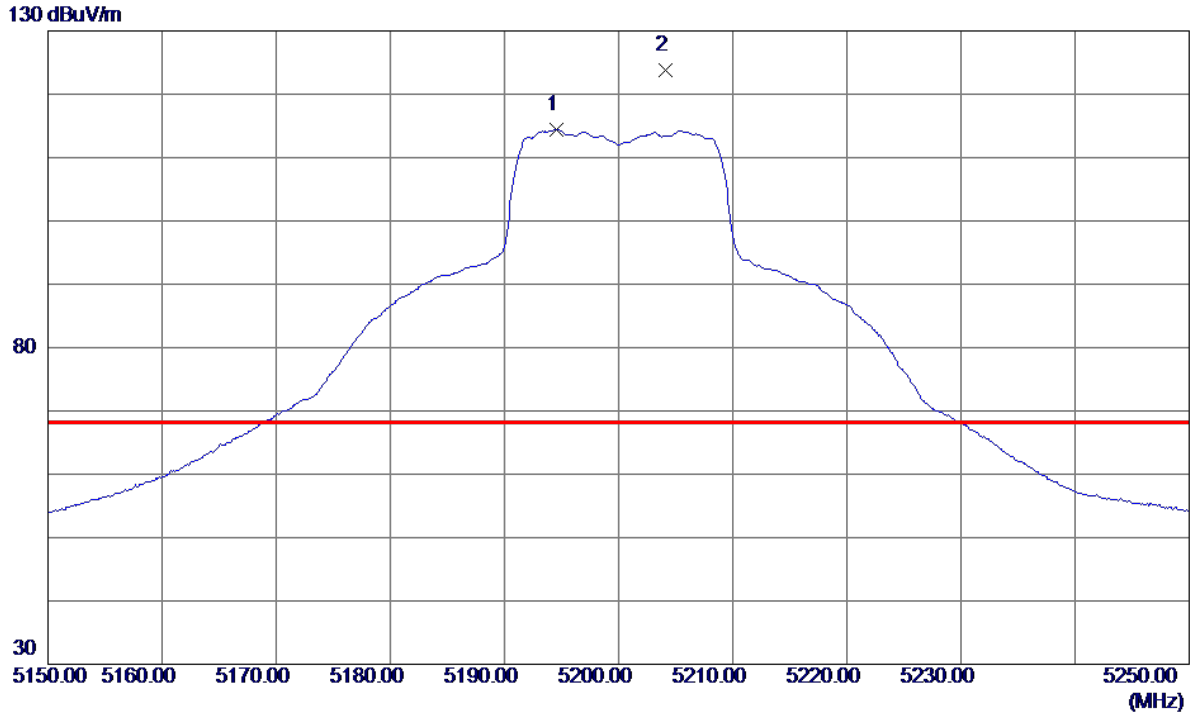
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10361.7200	31.88	20.28	52.16	68.30	-16.14	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5194.6000	93.22	21.19	114.41	999.00	-884.59	AVG	No Limit
2 *	5204.1000	102.47	21.23	123.70	68.30	55.40	Peak	No Limit

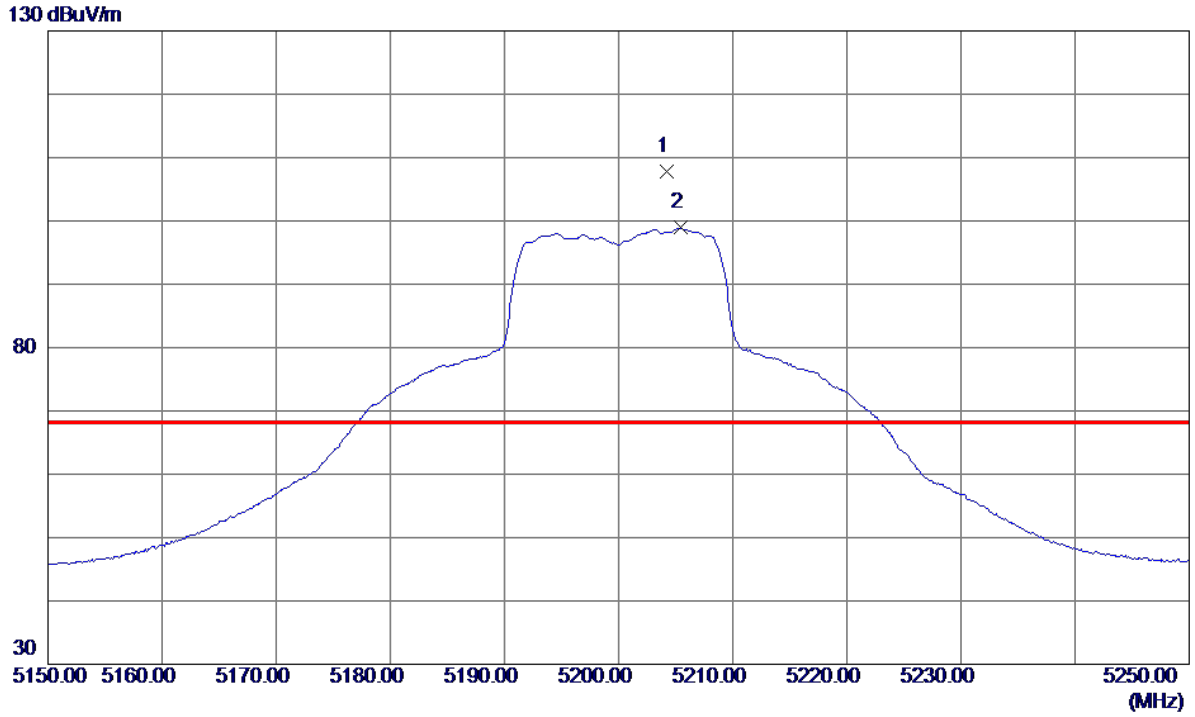
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10406.3200	35.58	20.34	55.92	68.30	-12.38	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5204.2000	86.62	21.23	107.85	68.30	39.55	Peak	No Limit
2	5205.4000	77.67	21.23	98.90	999.00	-900.10	AVG	No Limit

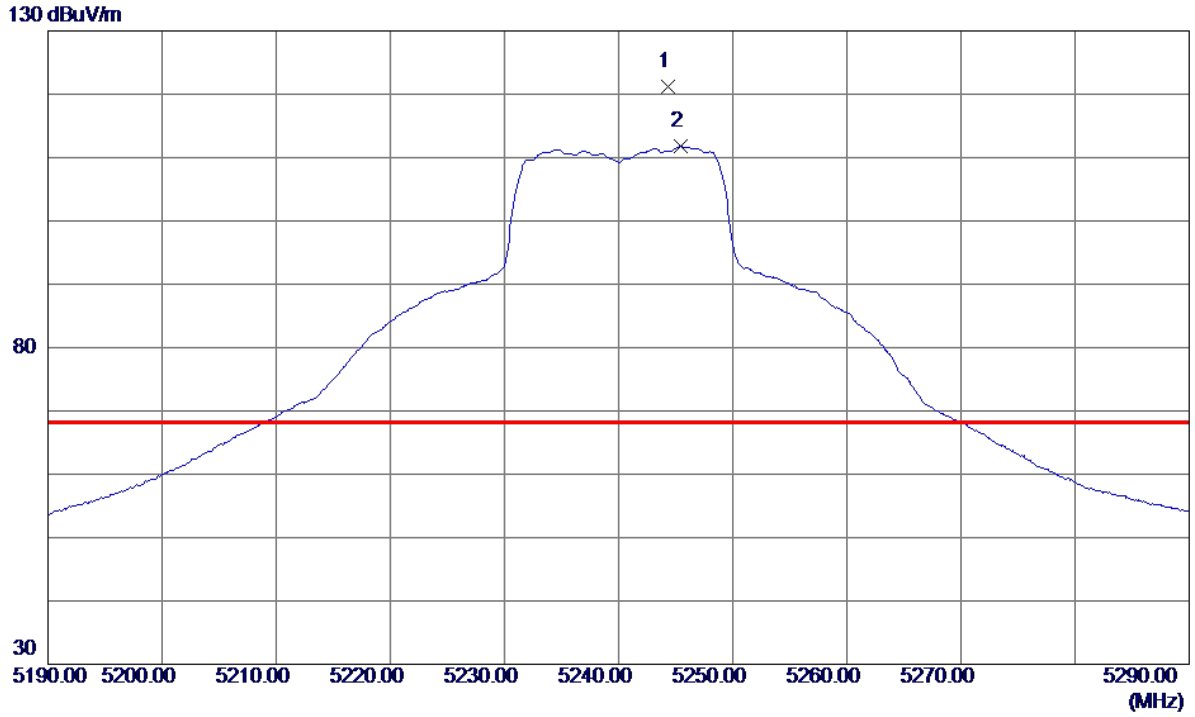
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399.7200	33.38	20.33	53.71	68.30	-14.59	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz

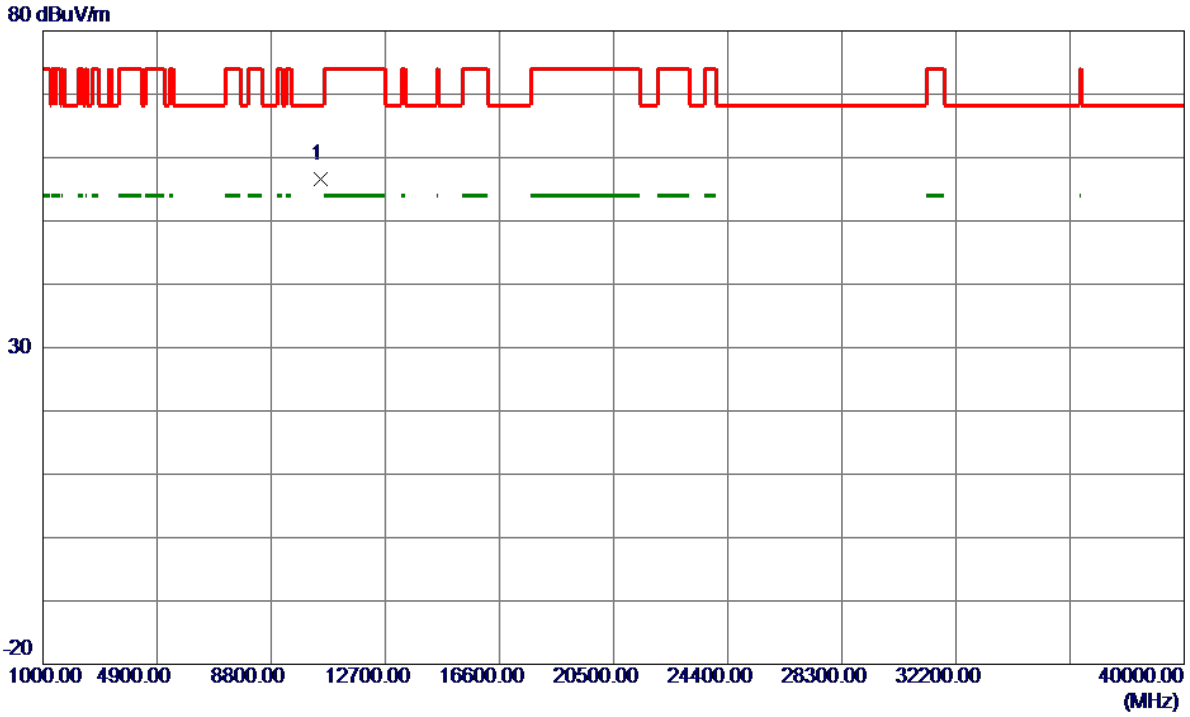
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5244.3000	99.85	21.37	121.22	68.30	52.92	Peak	No Limit
2	5245.4000	90.46	21.38	111.84	999.00	-887.16	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz

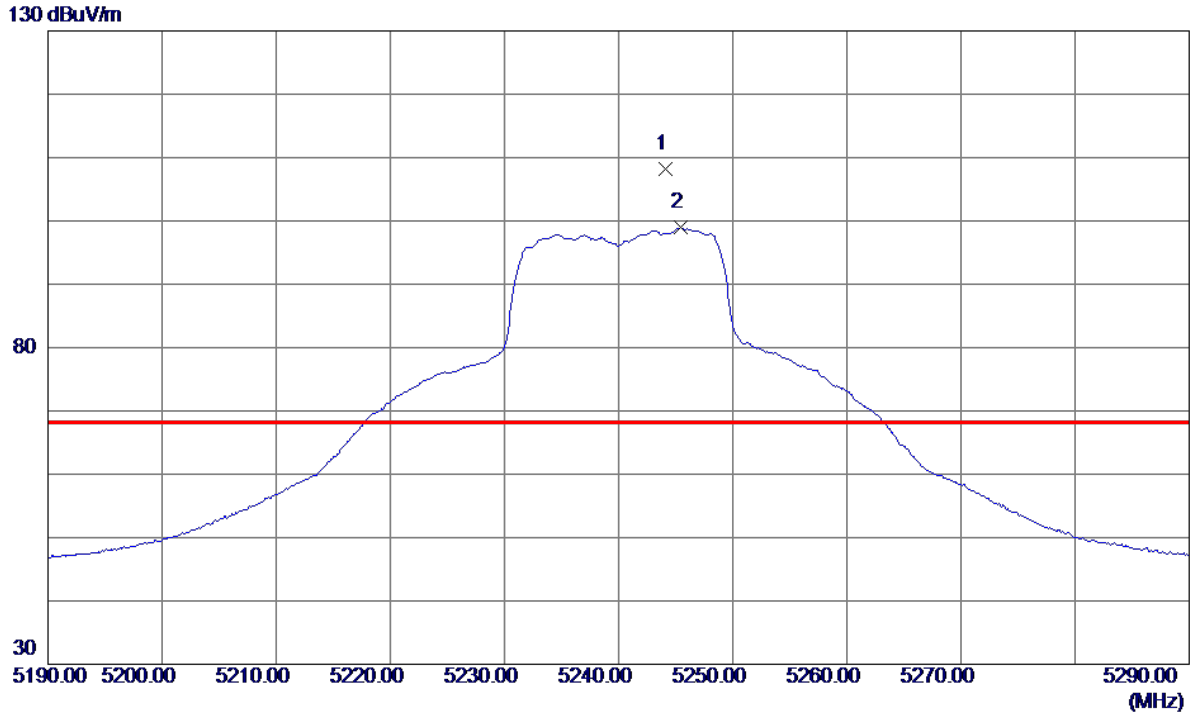
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10483.8600	36.10	20.44	56.54	68.30	-11.76	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5244.1000	86.92	21.37	108.29	68.30	39.99	Peak	No Limit
2	5245.4000	77.56	21.38	98.94	999.00	-900.06	AVG	No Limit

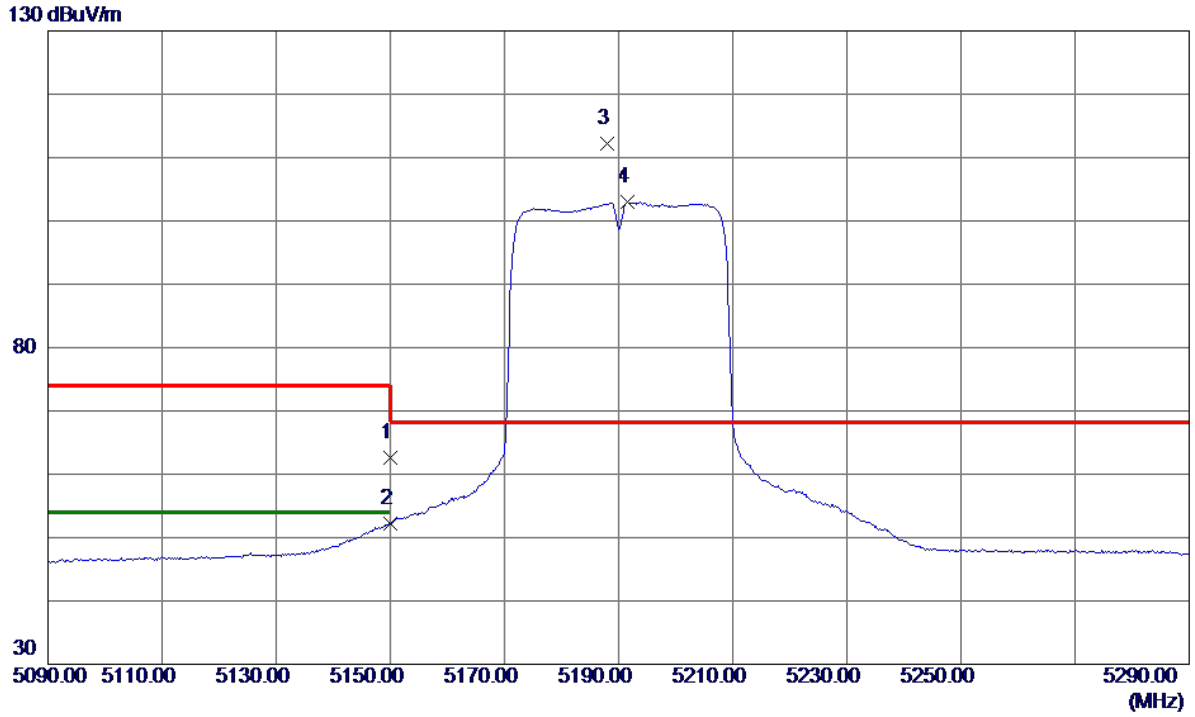
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz

Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480.2200	33.95	20.44	54.39	68.30	-13.91	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

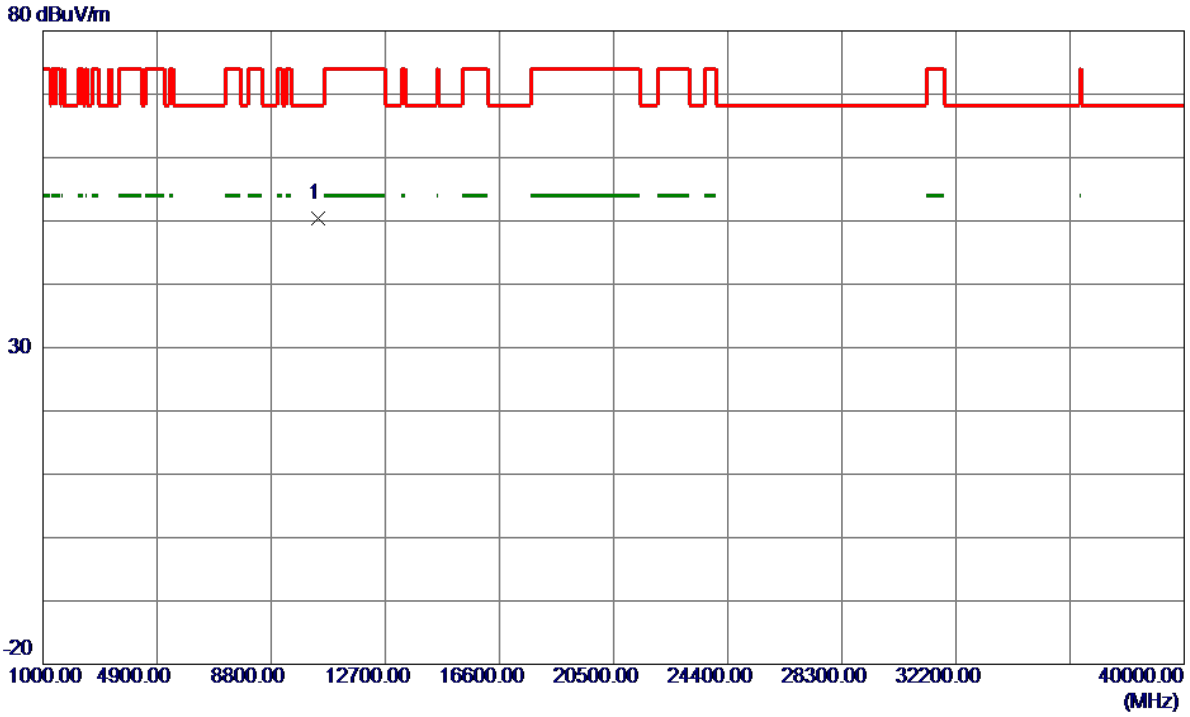
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	41.58	21.03	62.61	74.00	-11.39	Peak	
2	5150.0000	31.25	21.03	52.28	54.00	-1.72	AVG	
3 *	5188.0000	91.09	21.17	112.26	68.30	43.96	Peak	No Limit
4	5191.6000	81.76	21.18	102.94	999.00	-896.06	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

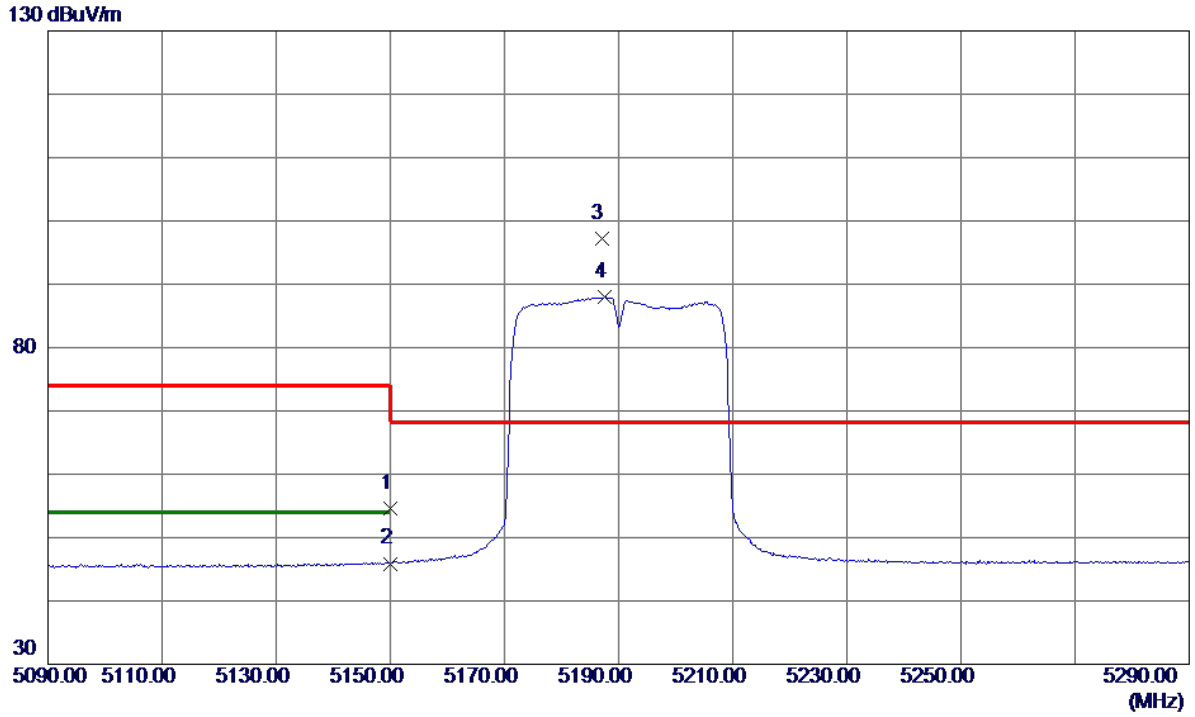
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10382.0000	30.15	20.31	50.46	68.30	-17.84	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

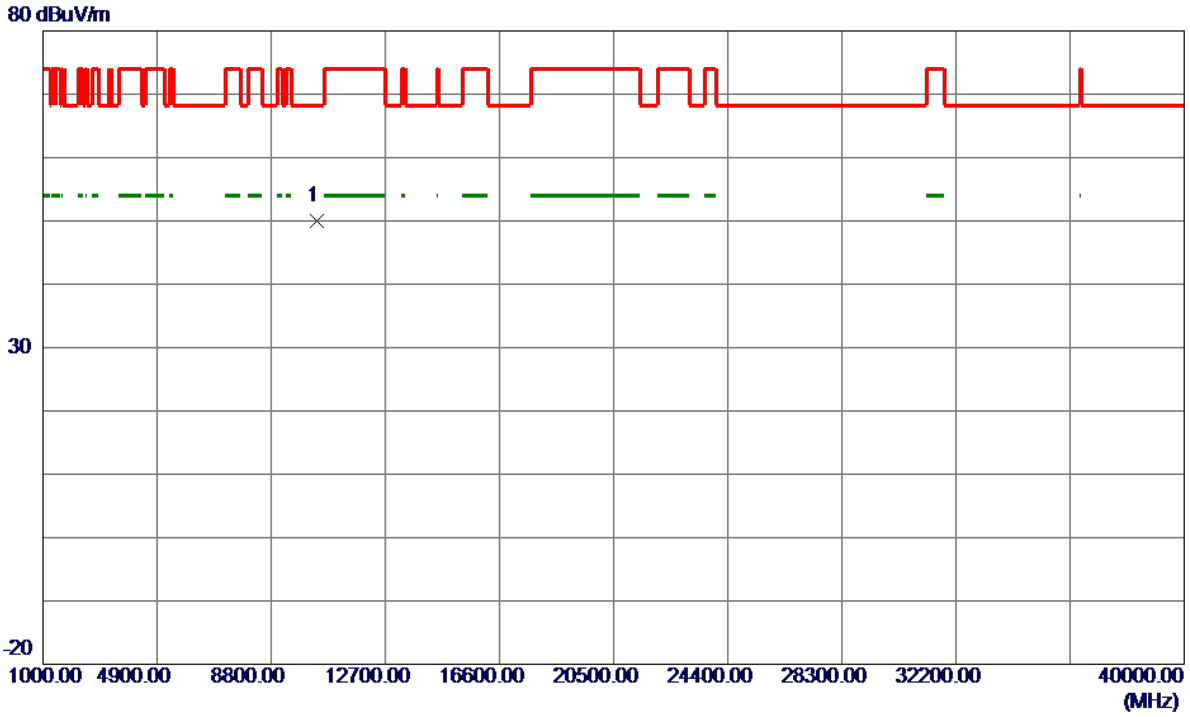
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	33.62	21.03	54.65	74.00	-19.35	Peak	
2	5150.0000	24.87	21.03	45.90	54.00	-8.10	AVG	
3 *	5187.0000	76.07	21.17	97.24	68.30	28.94	Peak	No Limit
4	5187.6000	66.75	21.17	87.92	999.00	-911.08	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

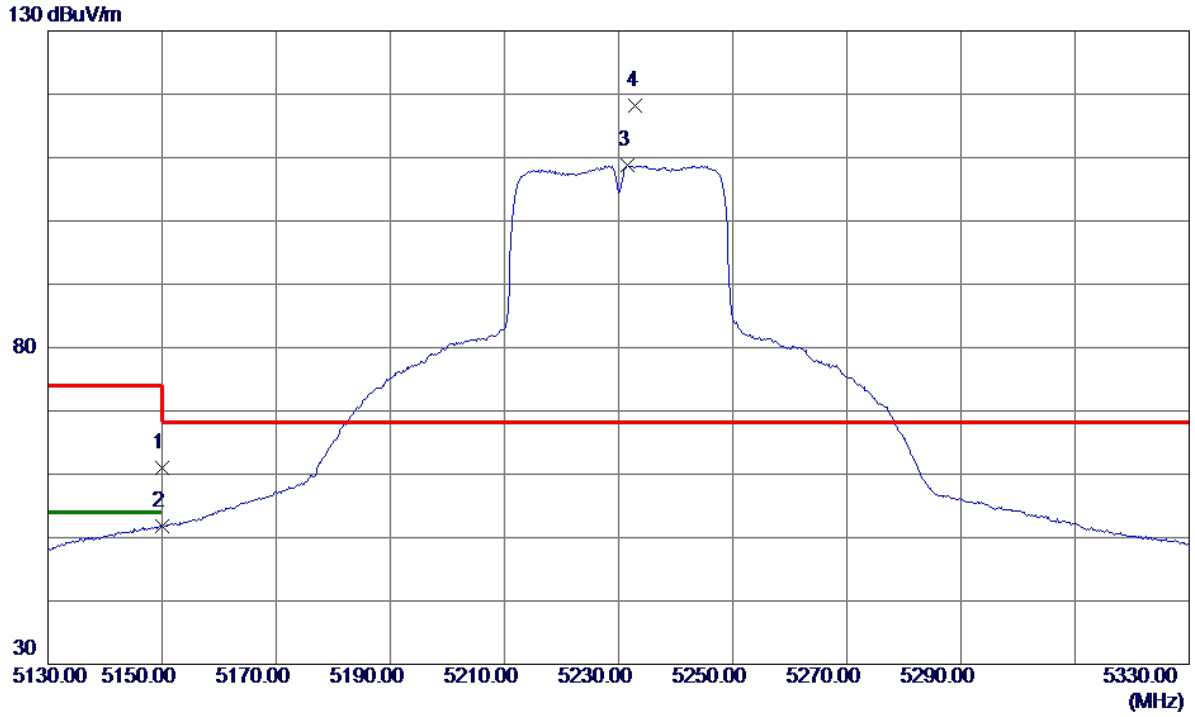
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10379.1600	29.70	20.30	50.00	68.30	-18.30	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	40.06	21.03	61.09	74.00	-12.91	Peak	
2	5150.0000	30.74	21.03	51.77	54.00	-2.23	AVG	
3	5231.6000	87.54	21.33	108.87	999.00	-890.13	AVG	No Limit
4 *	5233.0000	96.84	21.33	118.17	68.30	49.87	Peak	No Limit

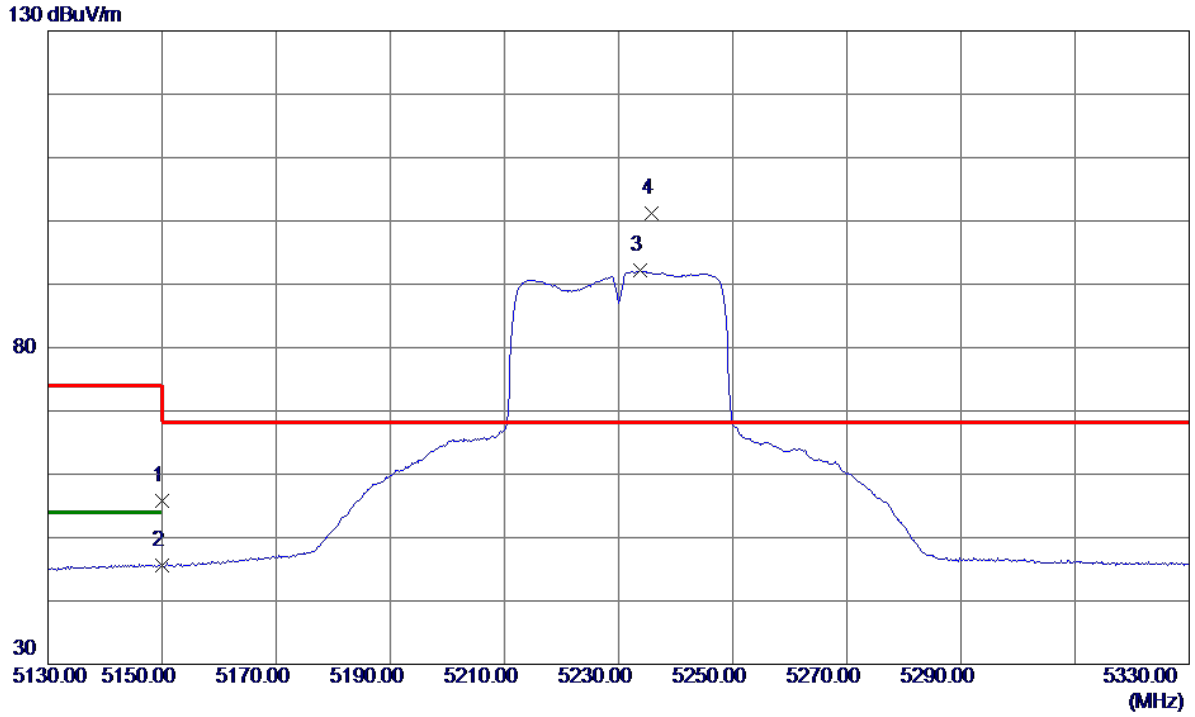
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10458.0000	32.79	20.41	53.20	68.30	-15.10	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	34.79	21.03	55.82	74.00	-18.18	Peak	
2	5150.0000	24.59	21.03	45.62	54.00	-8.38	AVG	
3	5233.8000	70.81	21.34	92.15	999.00	-906.85	AVG	No Limit
4 *	5235.8000	79.89	21.34	101.23	68.30	32.93	Peak	No Limit

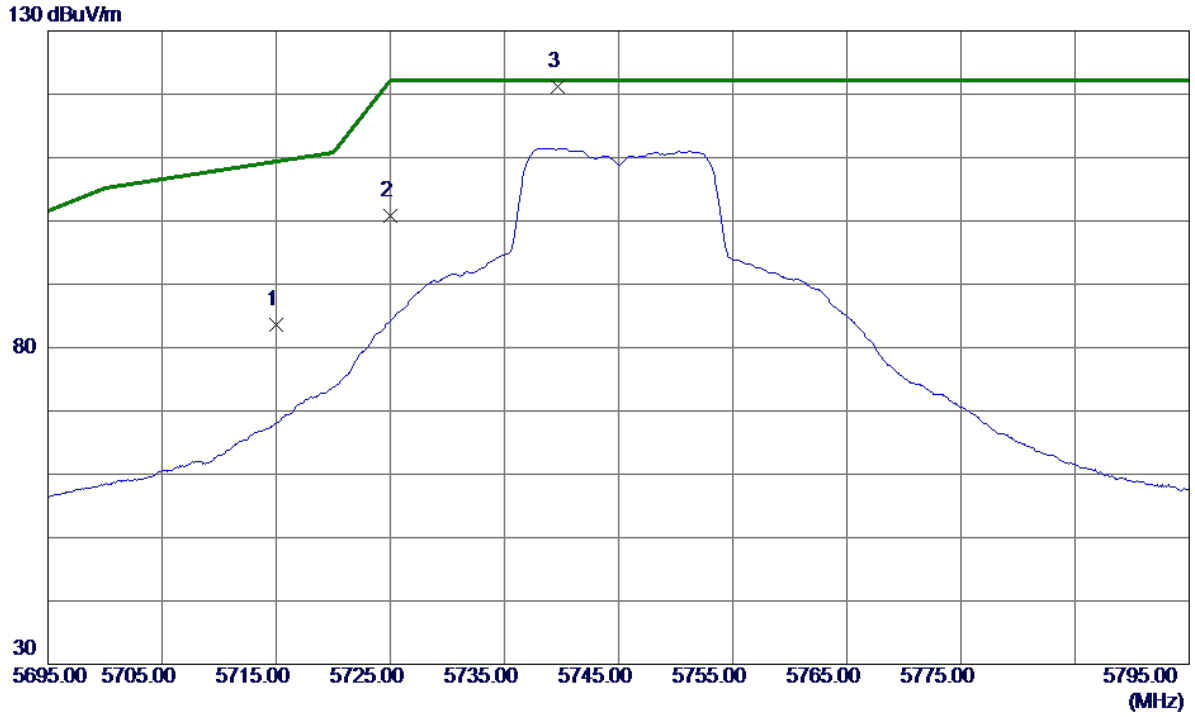
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

Horizontal

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10455.1800	30.58	20.41	50.99	68.30	-17.31	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

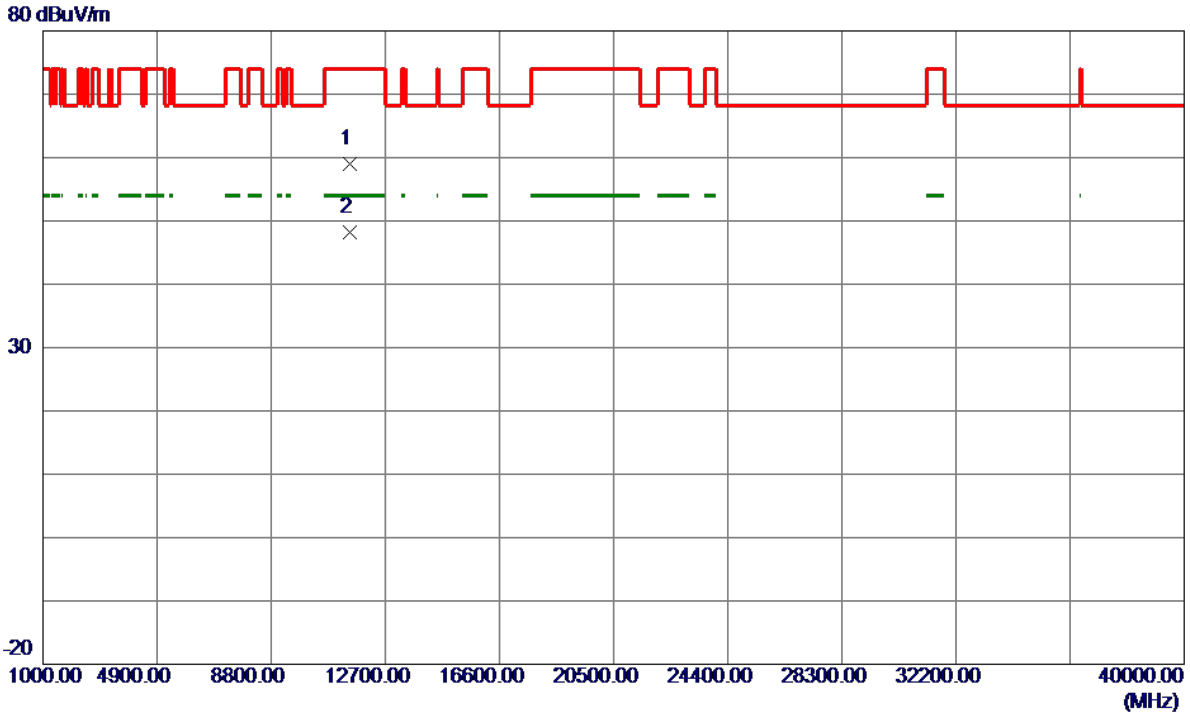
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	60.49	23.16	83.65	109.40	-25.75	Peak	
2	5725.0000	77.67	23.20	100.87	122.20	-21.33	Peak	
3 *	5739.7000	97.86	23.25	121.11	122.20	-1.09	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

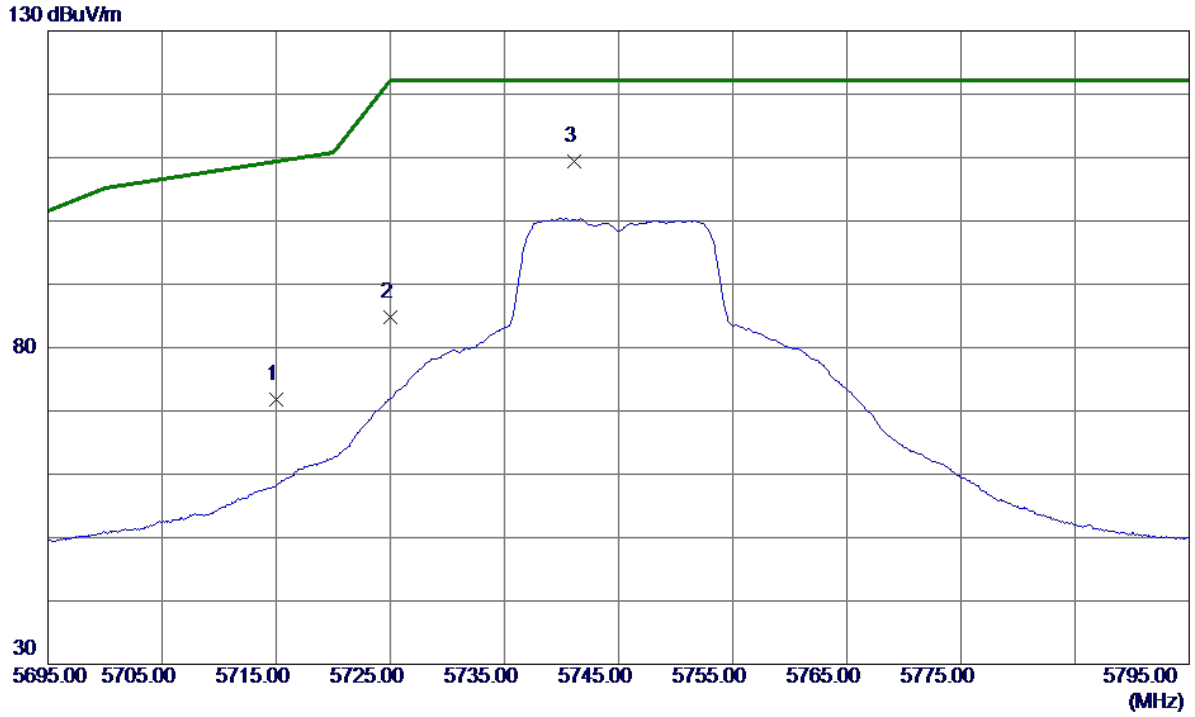
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11488.1000	37.59	21.43	59.02	74.00	-14.98	Peak	
2 *	11490.3000	26.76	21.43	48.19	54.00	-5.81	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

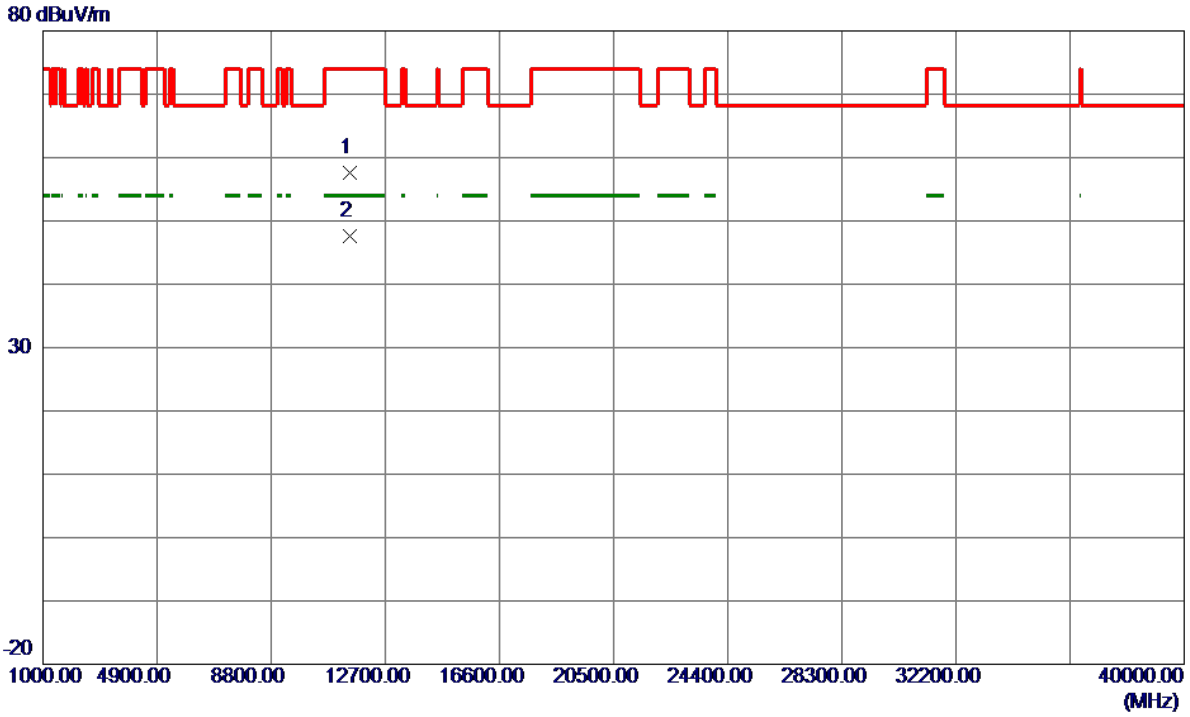
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	48.67	23.16	71.83	109.40	-37.57	Peak	
2	5725.0000	61.69	23.20	84.89	122.20	-37.31	Peak	
3 *	5741.1000	86.21	23.26	109.47	122.20	-12.73	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

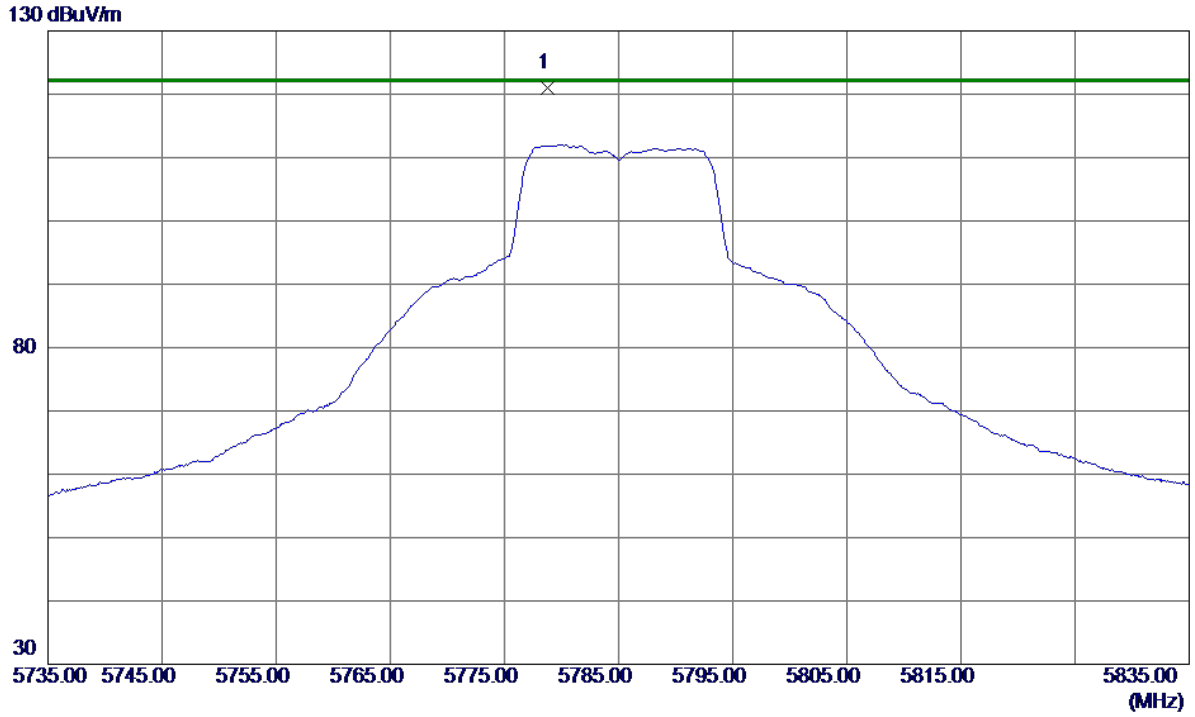
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11484.3500	36.11	21.42	57.53	74.00	-16.47	Peak	
2 *	11490.0500	26.20	21.43	47.63	54.00	-6.37	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

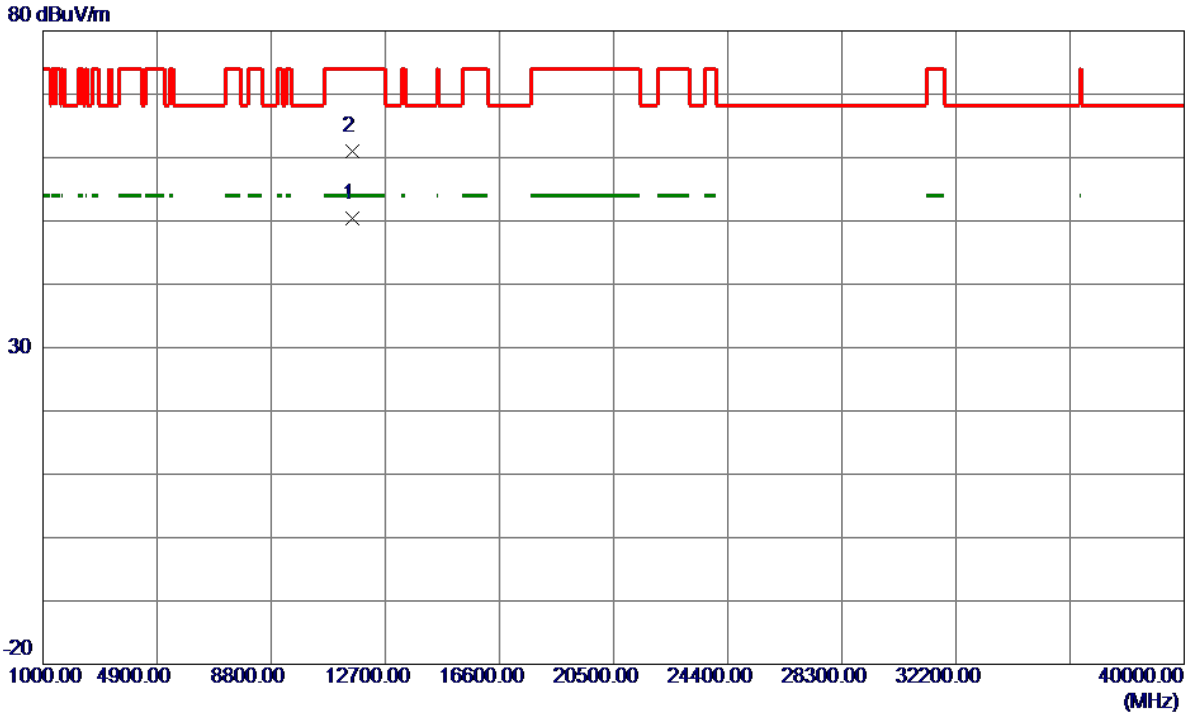
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5778.8000	97.64	23.41	121.05	122.20	-1.15	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

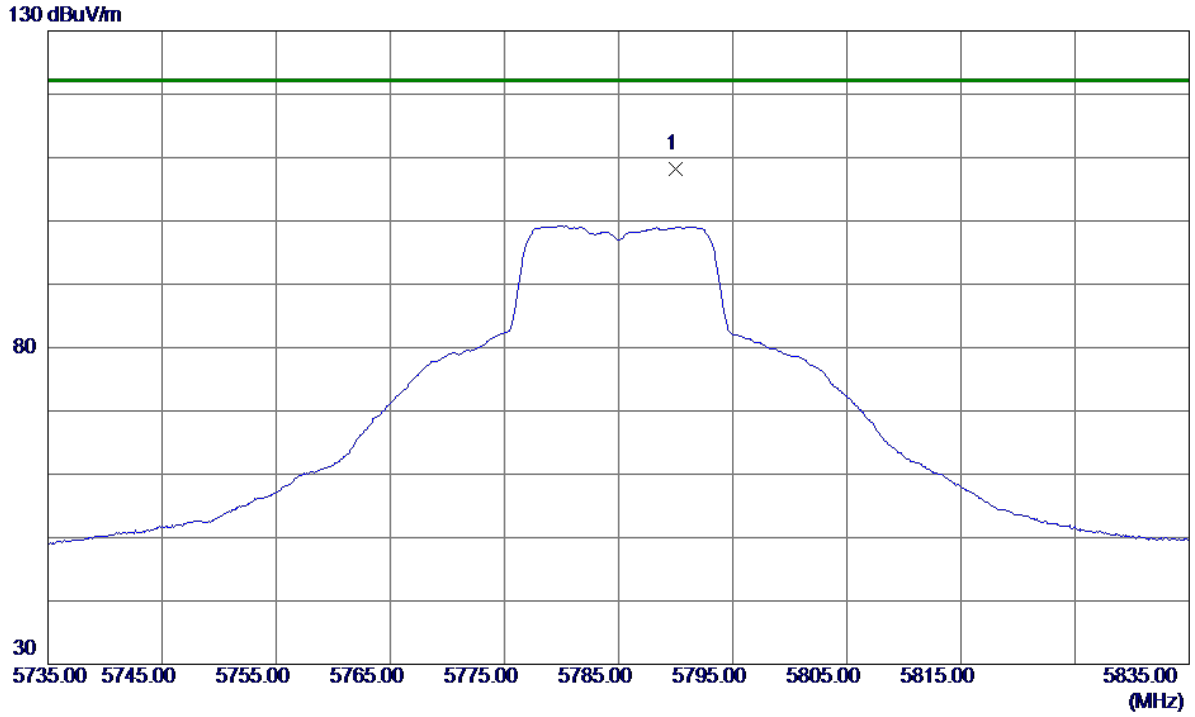
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11569.7500	28.97	21.50	50.47	54.00	-3.53	AVG	
2	11577.1000	39.59	21.50	61.09	74.00	-12.91	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

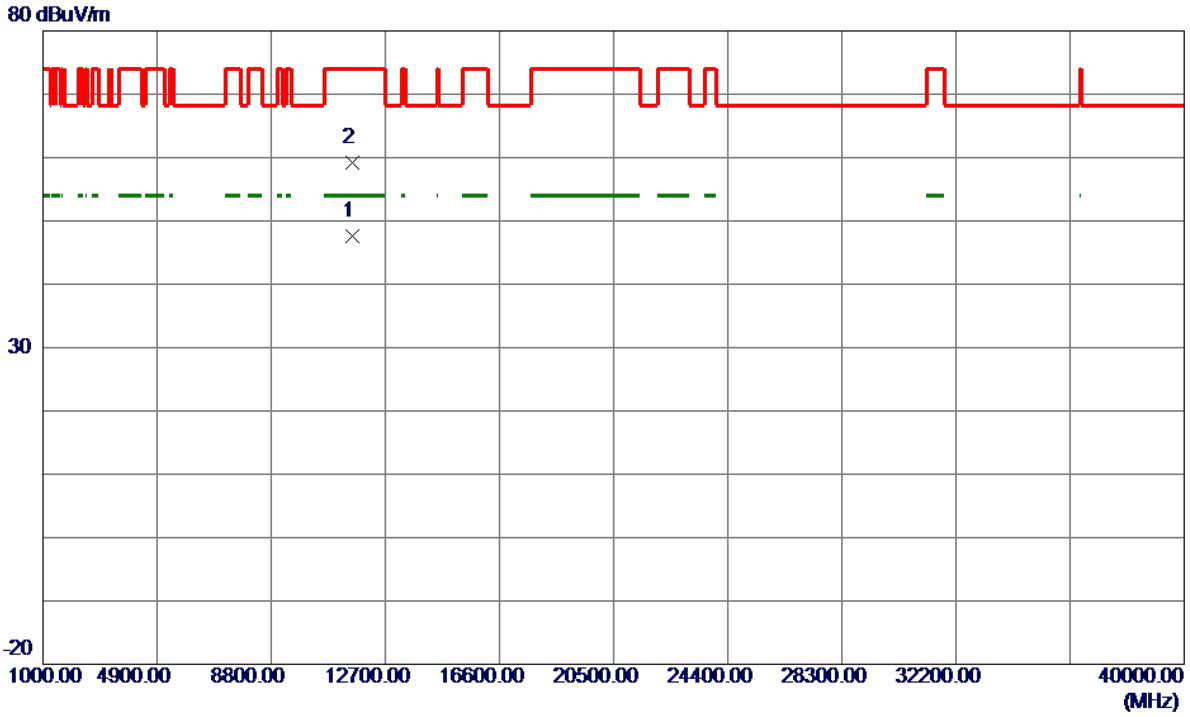
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5790.0000	84.71	23.45	108.16	122.20	-14.04	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

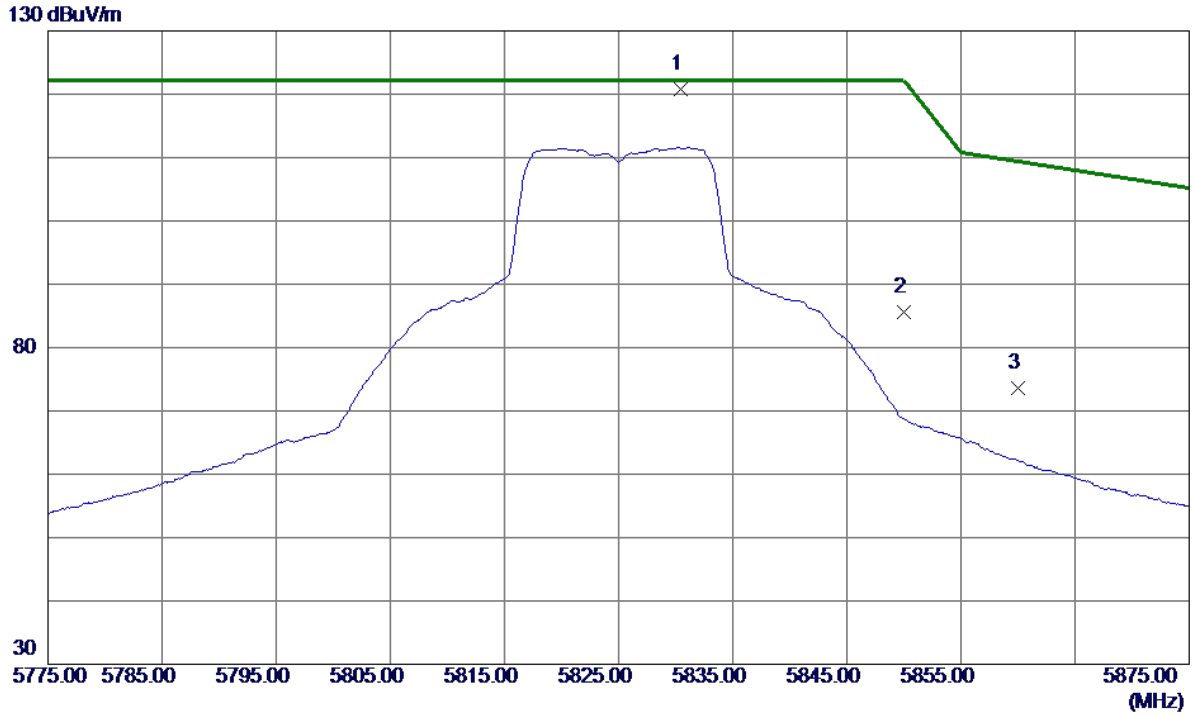
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11570.0500	26.08	21.50	47.58	54.00	-6.42	AVG	
2	11572.5000	37.66	21.50	59.16	74.00	-14.84	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

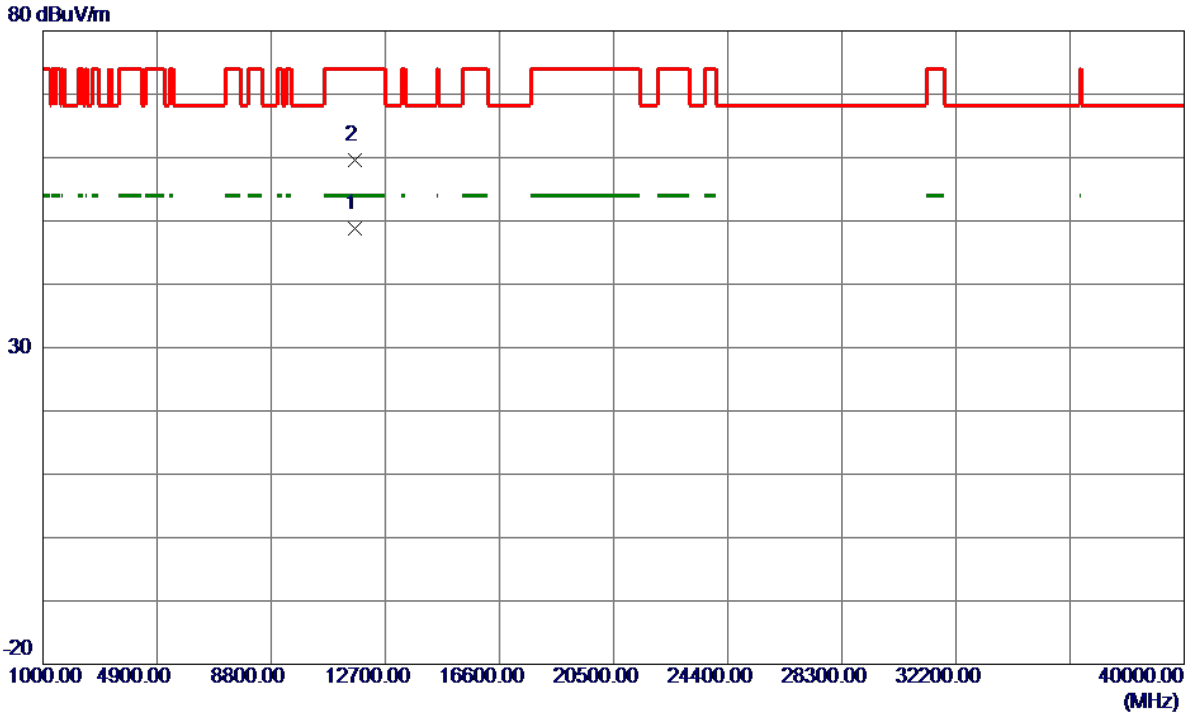
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5830.4000	97.23	23.61	120.84	122.20	-1.36	Peak	
2	5850.0000	61.89	23.69	85.58	122.20	-36.62	Peak	
3	5860.0000	49.83	23.73	73.56	109.40	-35.84	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

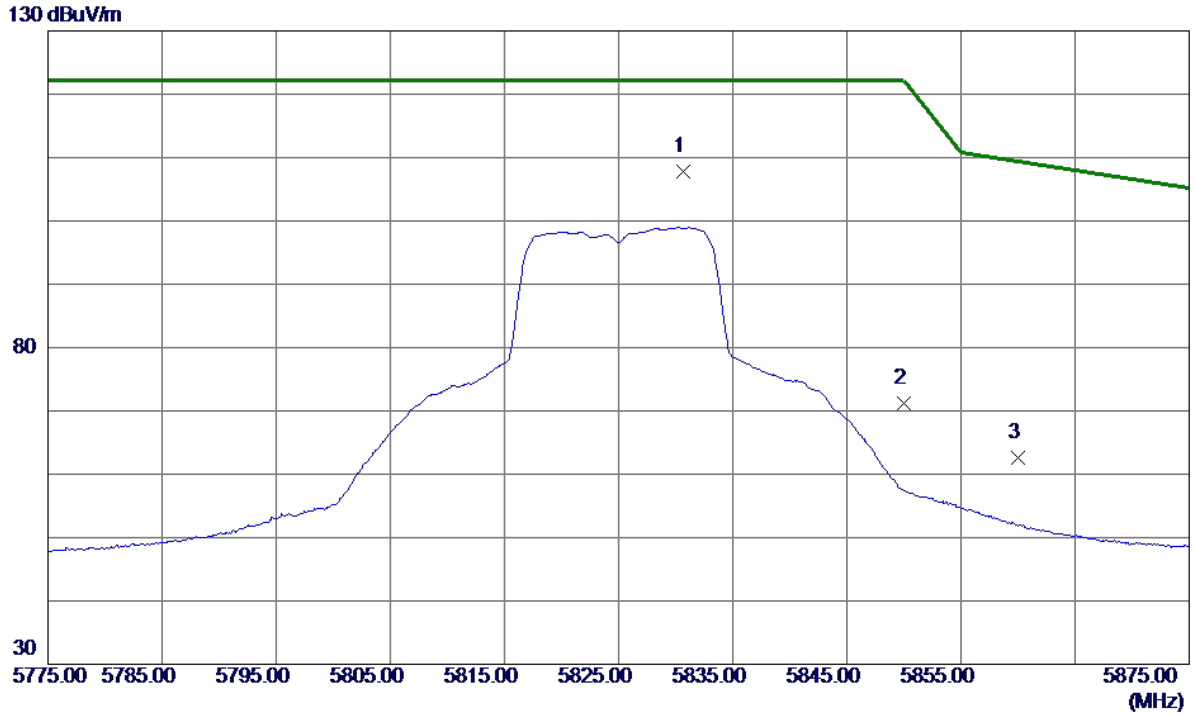
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11650.0000	27.28	21.55	48.83	54.00	-5.17	AVG	
2	11650.4000	38.06	21.55	59.61	74.00	-14.39	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

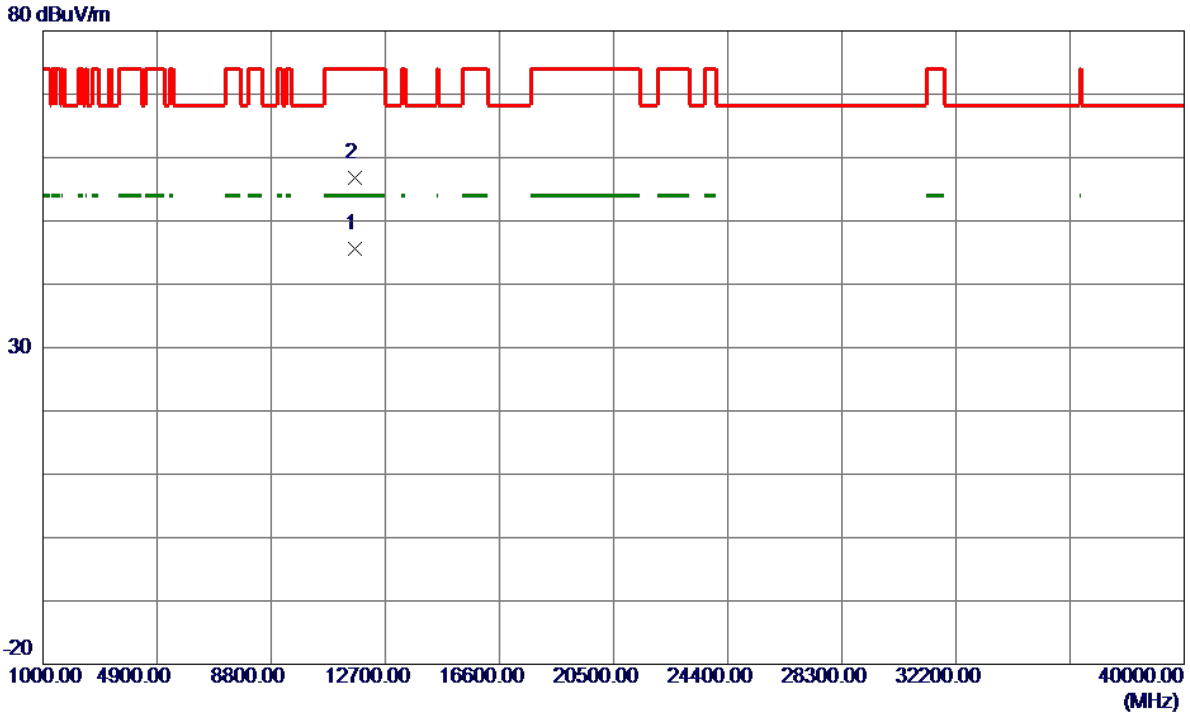
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5830.7000	84.23	23.62	107.85	122.20	-14.35	Peak	
2	5850.0000	47.48	23.69	71.17	122.20	-51.03	Peak	
3	5860.0000	38.92	23.73	62.65	109.40	-46.75	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

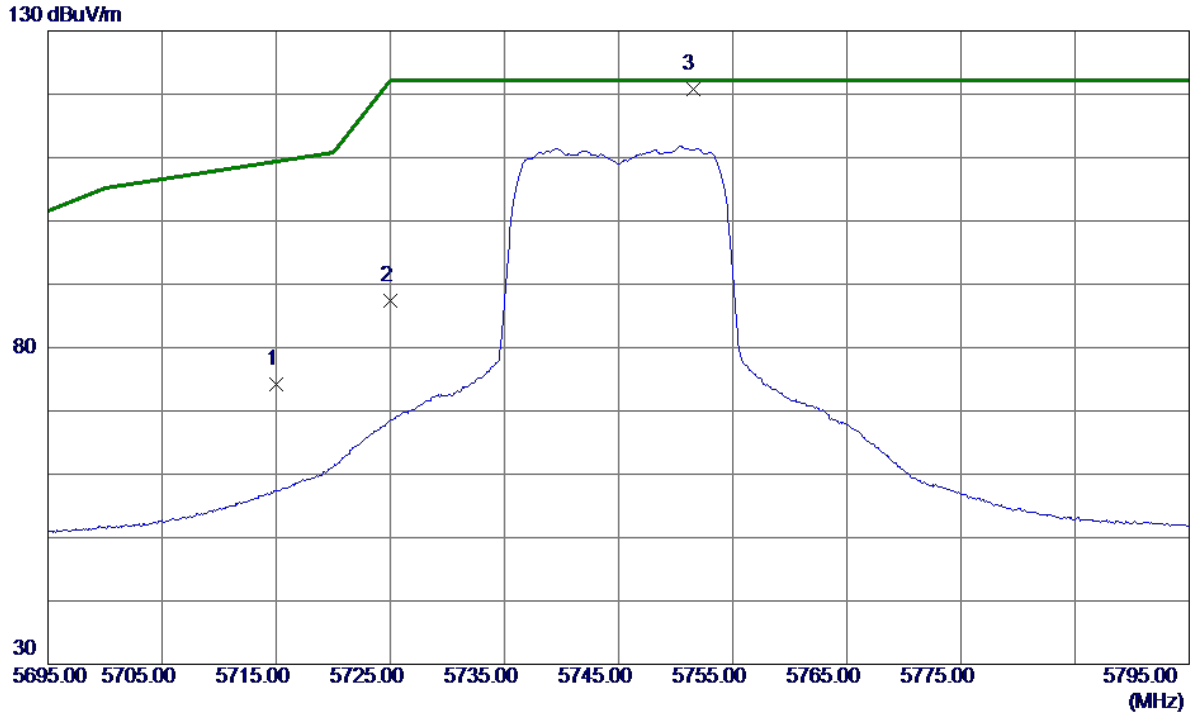
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11650.3000	24.09	21.55	45.64	54.00	-8.36	AVG	
2	11652.5000	35.24	21.55	56.79	74.00	-17.21	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

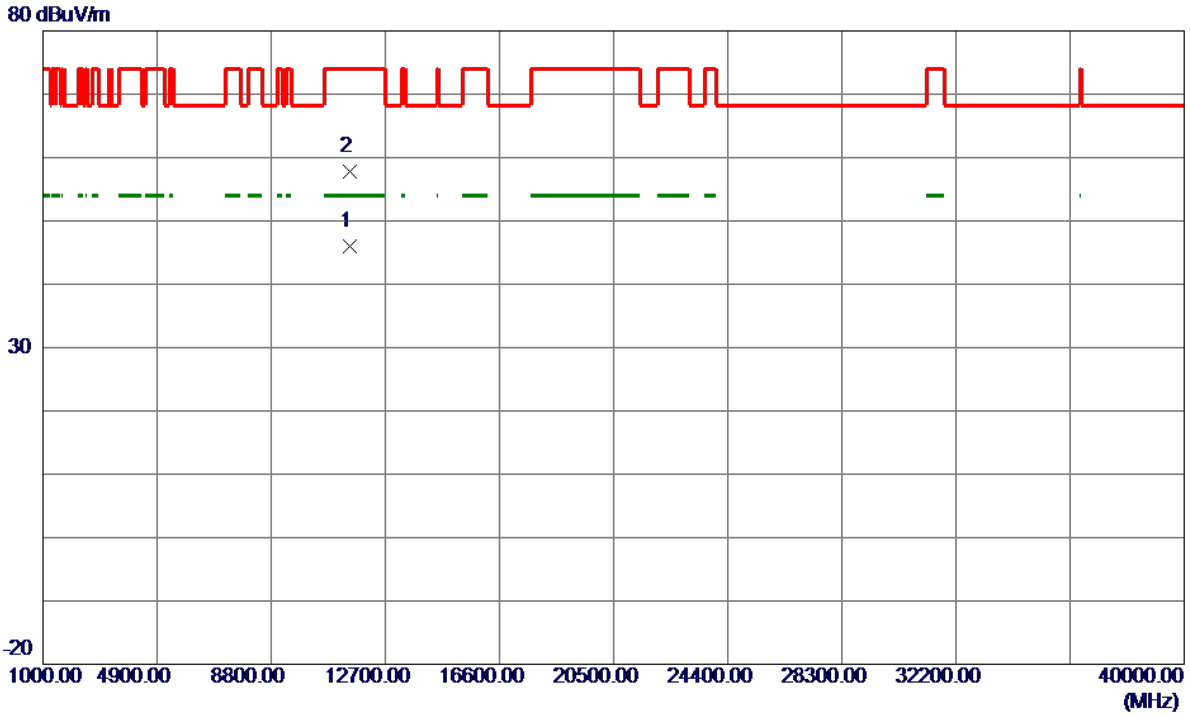
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	51.13	23.16	74.29	109.40	-35.11	Peak	
2	5725.0000	64.11	23.20	87.31	122.20	-34.89	Peak	
3 *	5751.5000	97.43	23.30	120.73	122.20	-1.47	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

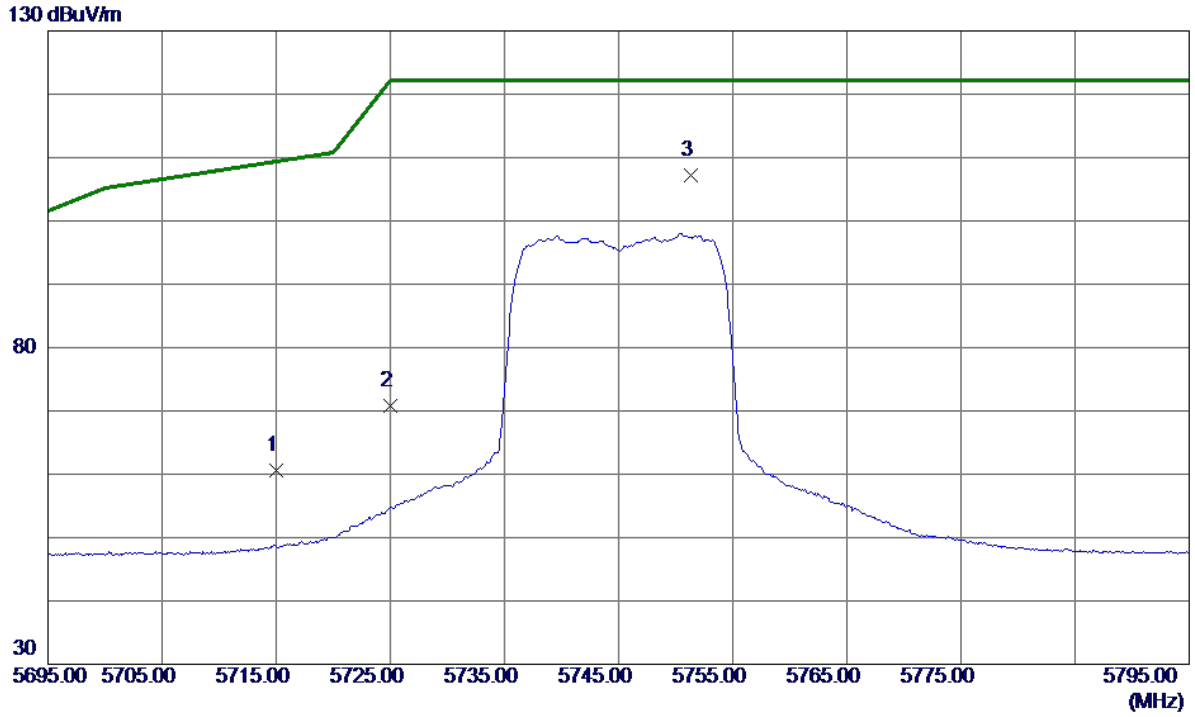
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11489.6500	24.56	21.43	45.99	54.00	-8.01	AVG	
2	11500.0500	36.41	21.45	57.86	74.00	-16.14	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

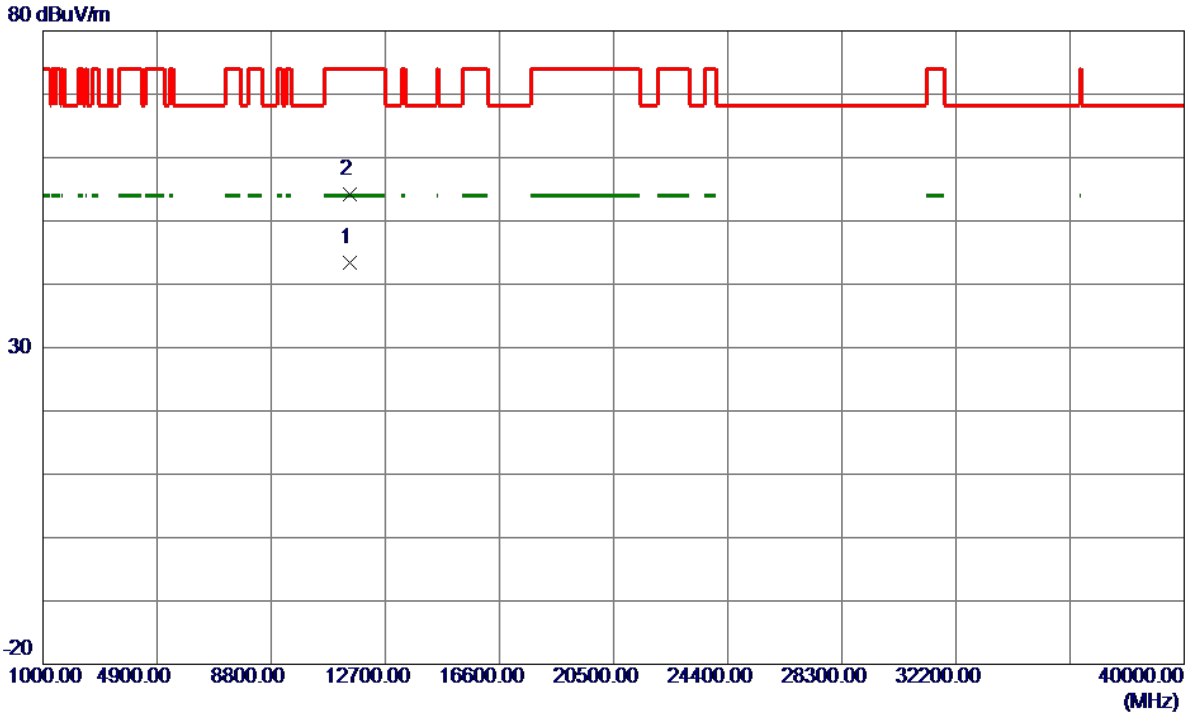
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	37.44	23.16	60.60	109.40	-48.80	Peak	
2	5725.0000	47.53	23.20	70.73	122.20	-51.47	Peak	
3 *	5751.3000	83.88	23.30	107.18	122.20	-15.02	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

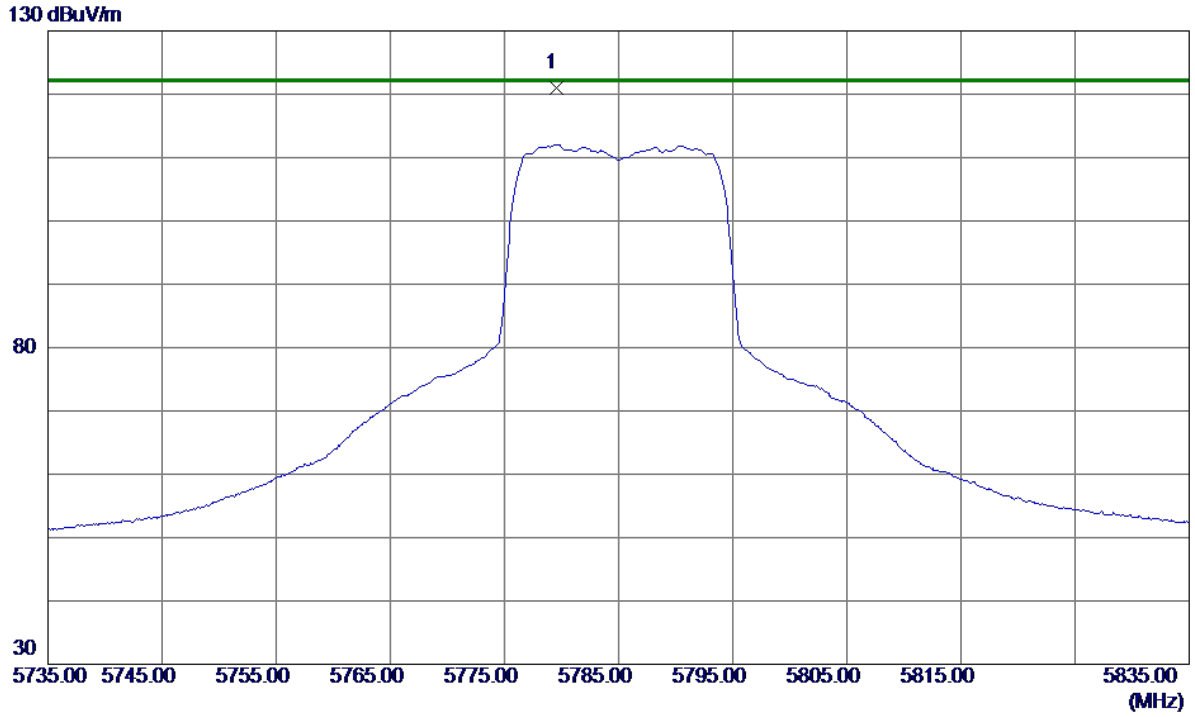
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11490.5000	21.92	21.43	43.35	54.00	-10.65	AVG	
2	11490.9000	32.76	21.43	54.19	74.00	-19.81	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

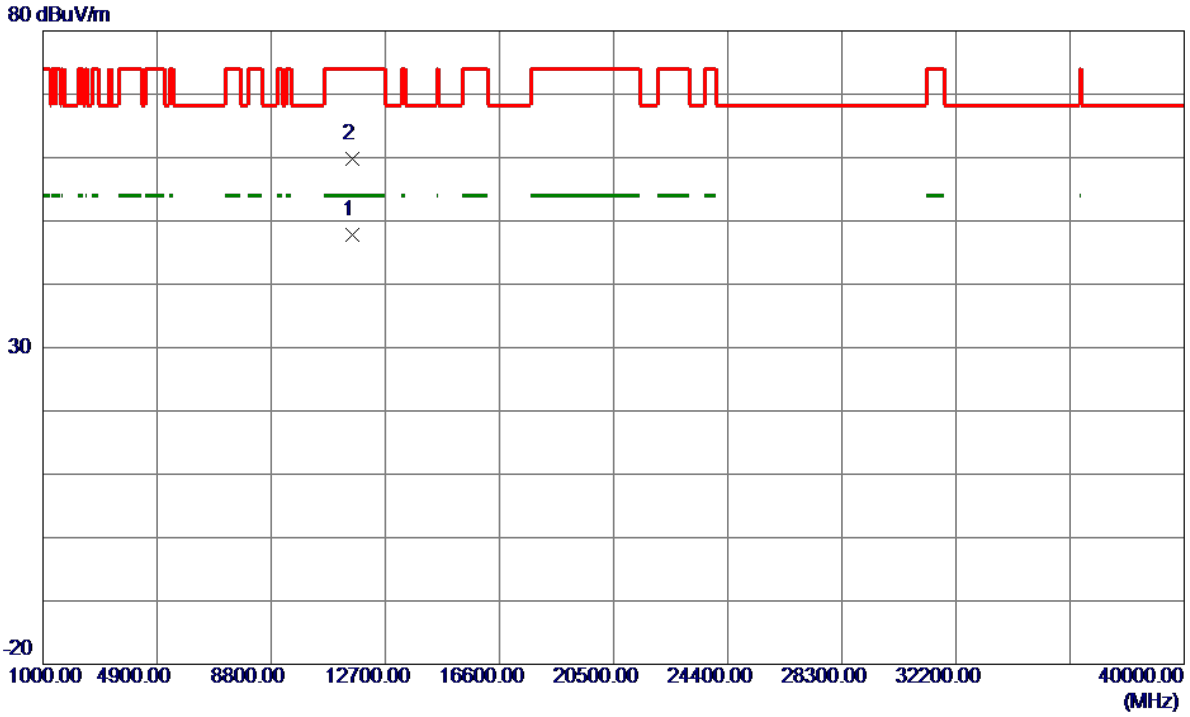
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5779.5000	97.65	23.41	121.06	122.20	-1.14	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

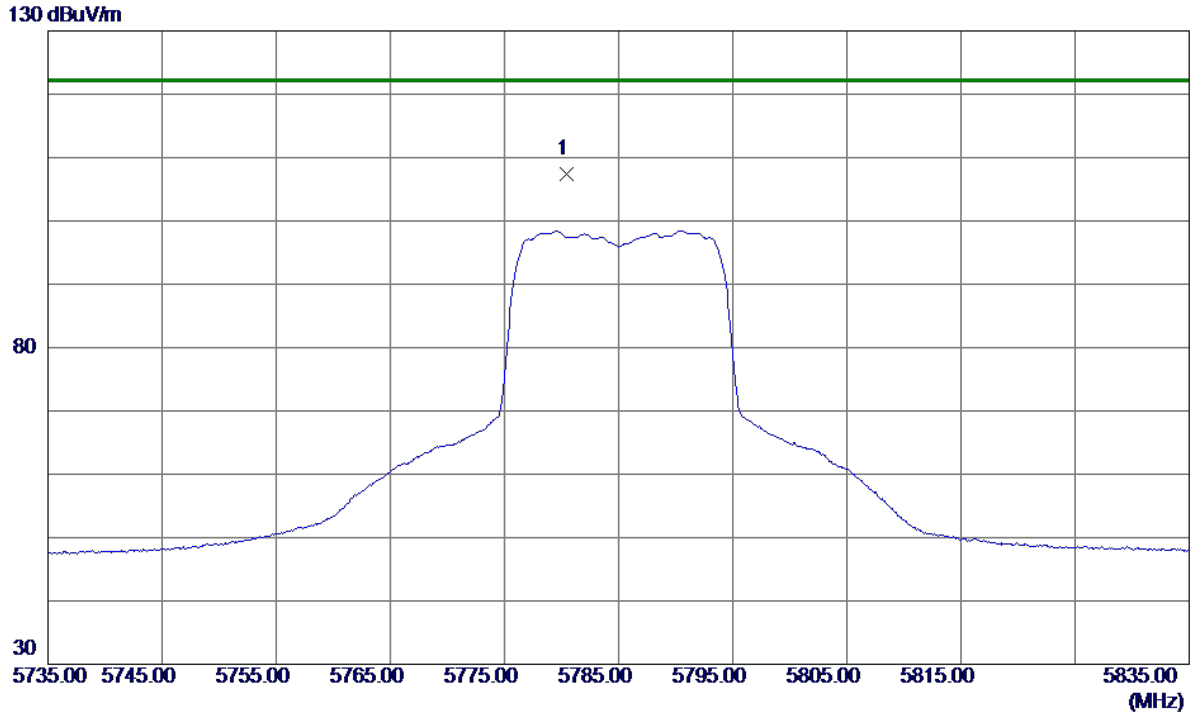
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11569.8500	26.33	21.50	47.83	54.00	-6.17	AVG	
2	11576.4000	38.22	21.50	59.72	74.00	-14.28	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

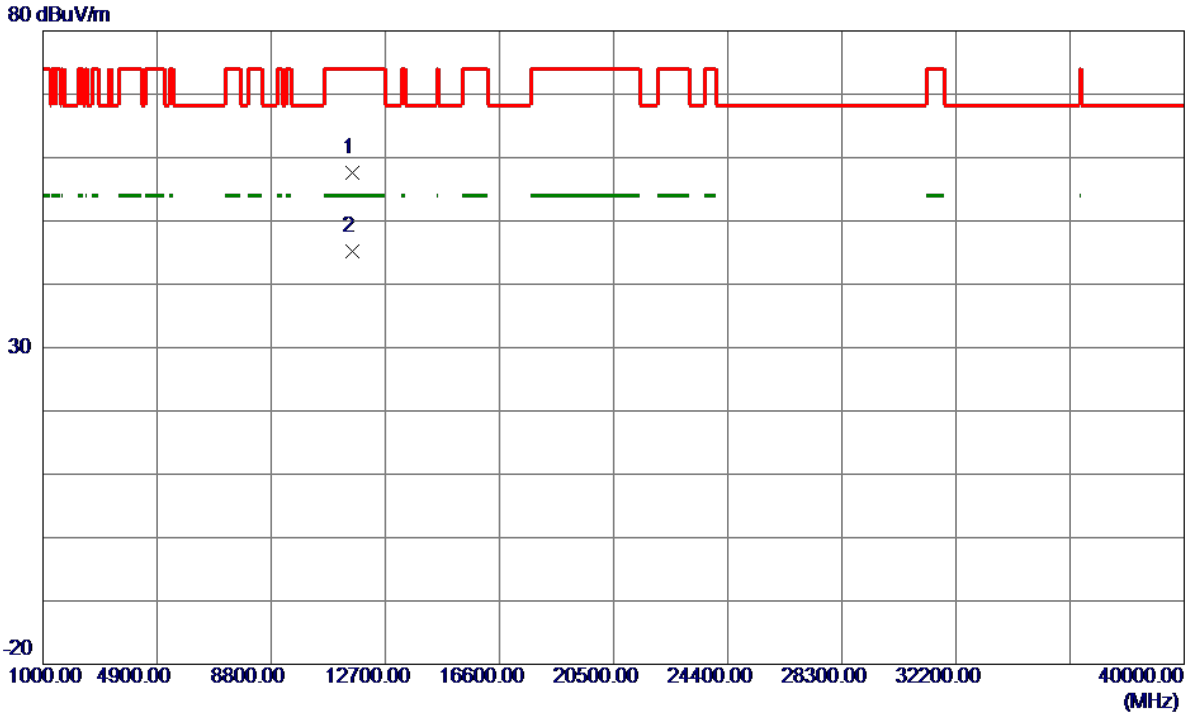
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5780.4000	83.97	23.42	107.39	122.20	-14.81	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

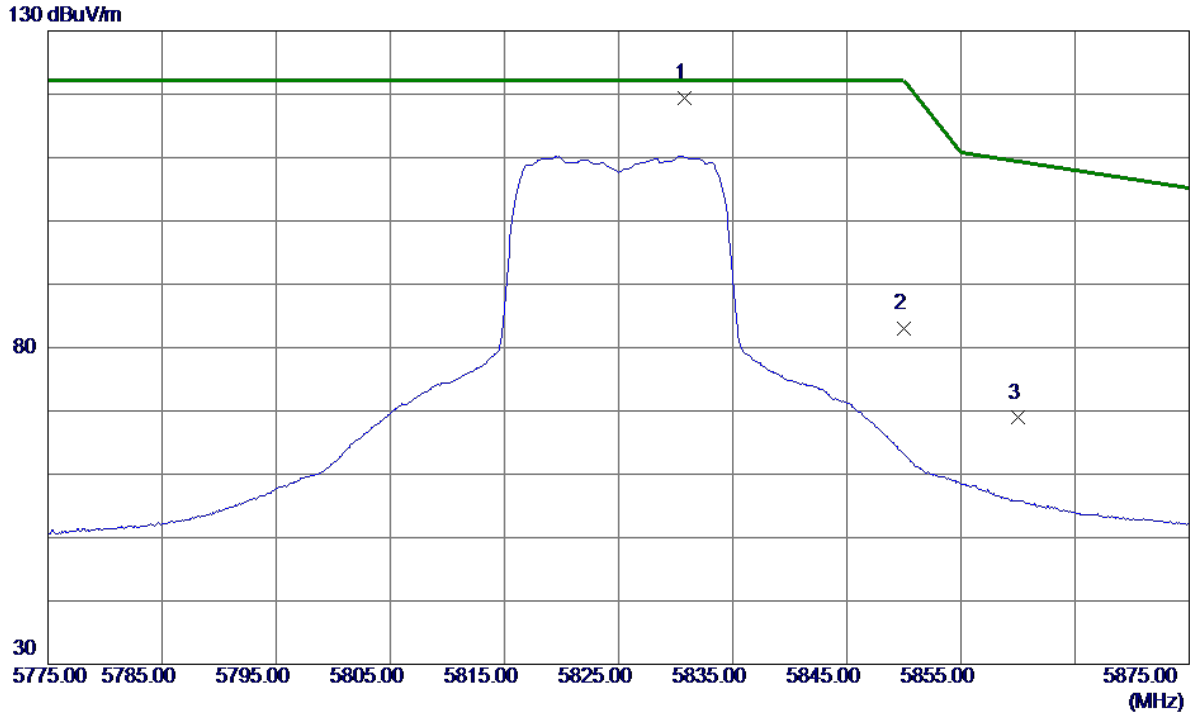
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11567.3500	36.19	21.49	57.68	74.00	-16.32	Peak	
2 *	11569.9000	23.68	21.50	45.18	54.00	-8.82	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

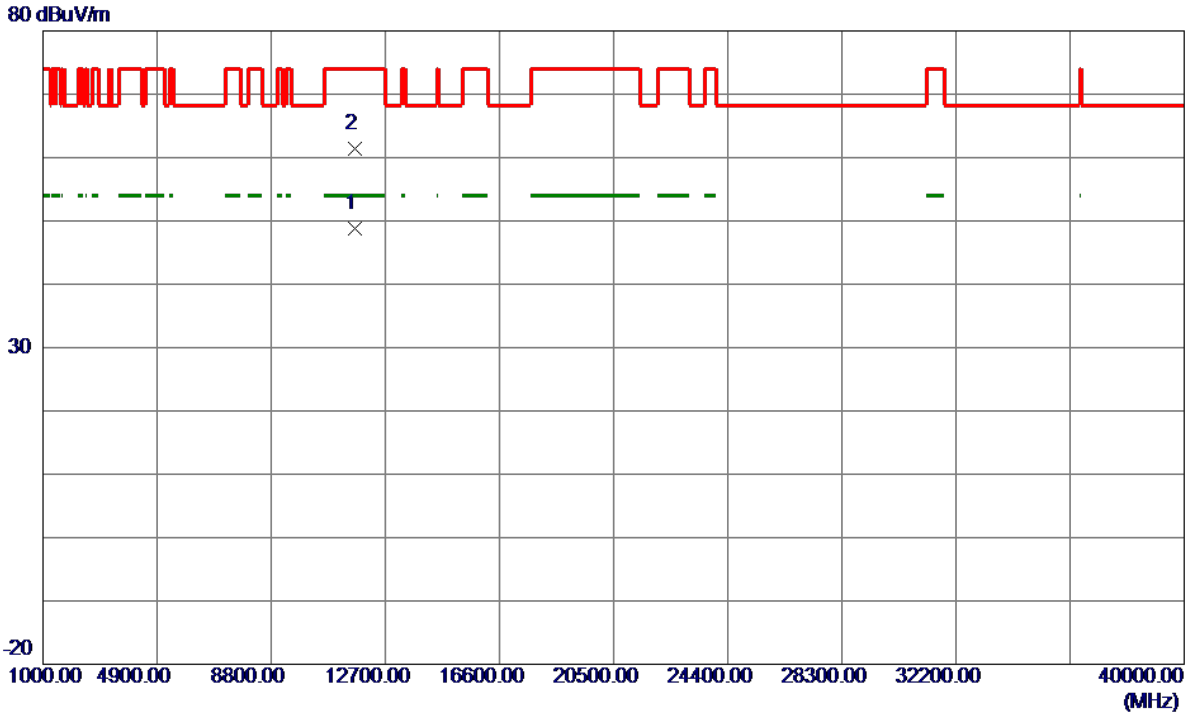
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5830.8000	95.78	23.62	119.40	122.20	-2.80	Peak	
2	5850.0000	59.36	23.69	83.05	122.20	-39.15	Peak	
3	5860.0000	45.17	23.73	68.90	109.40	-40.50	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

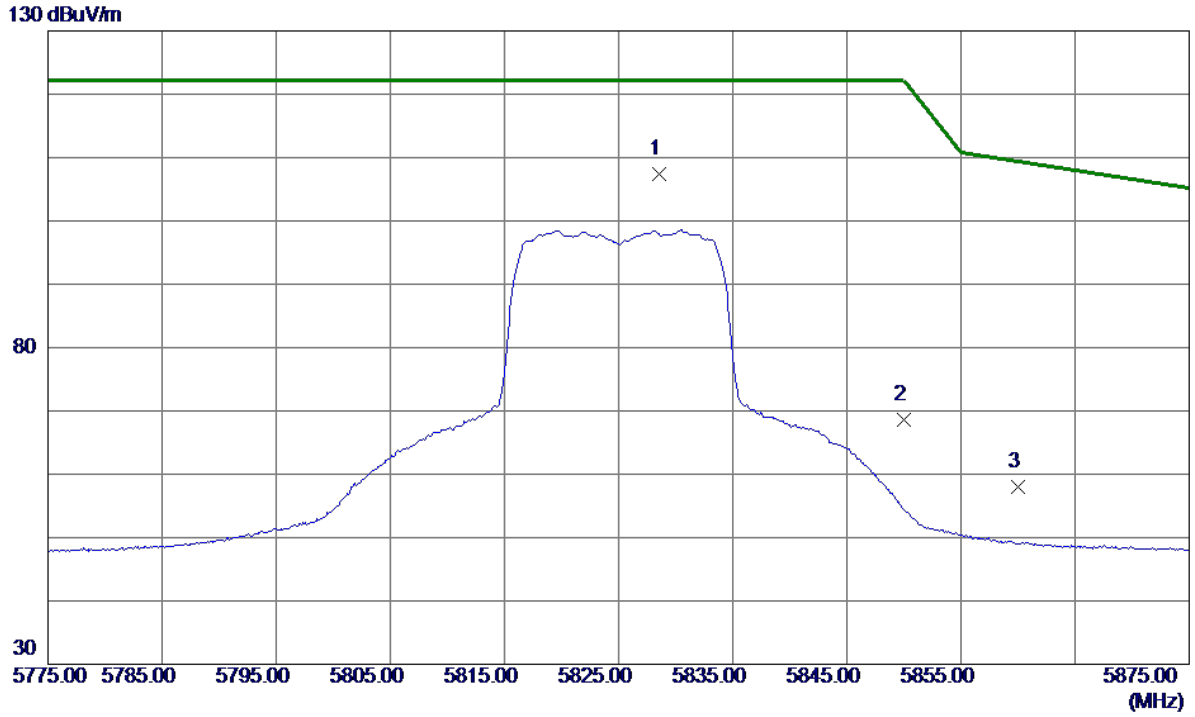
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11649.6500	27.18	21.55	48.73	54.00	-5.27	AVG	
2	11659.0000	39.83	21.55	61.38	74.00	-12.62	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

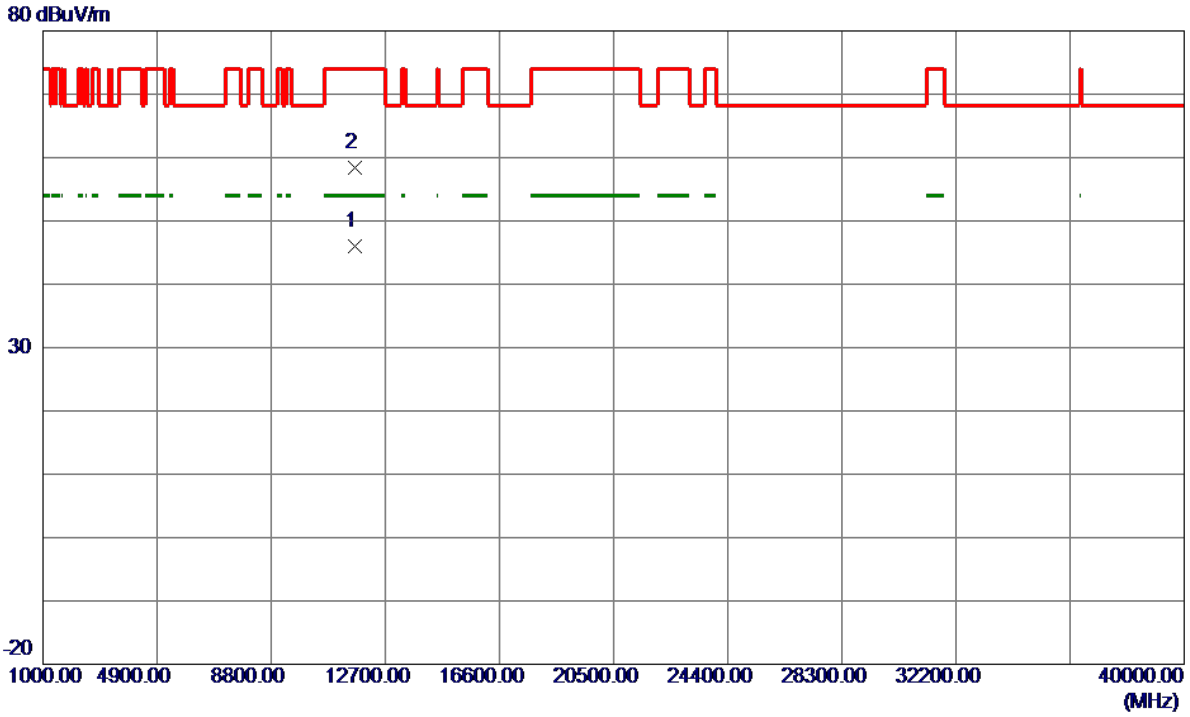
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5828.6000	83.77	23.61	107.38	122.20	-14.82	Peak	
2	5850.0000	44.96	23.69	68.65	122.20	-53.55	Peak	
3	5860.0000	34.32	23.73	58.05	109.40	-51.35	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

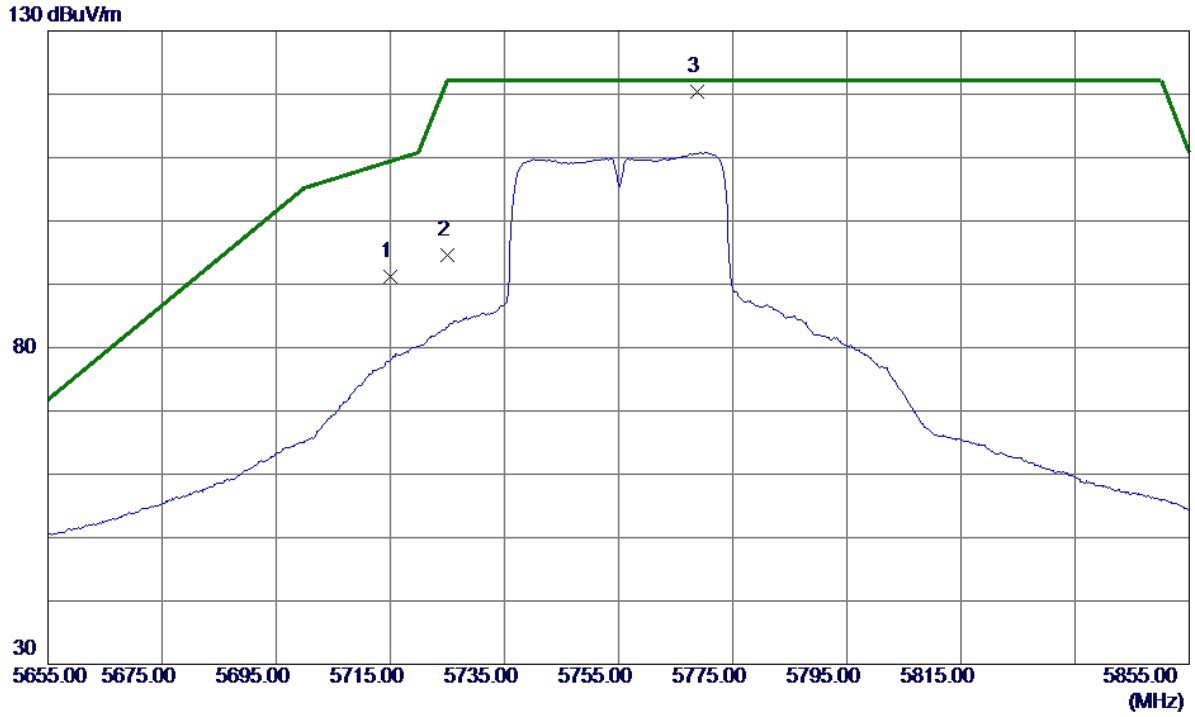
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11653.6500	24.43	21.55	45.98	54.00	-8.02	AVG	
2	11659.0000	36.78	21.55	58.33	74.00	-15.67	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

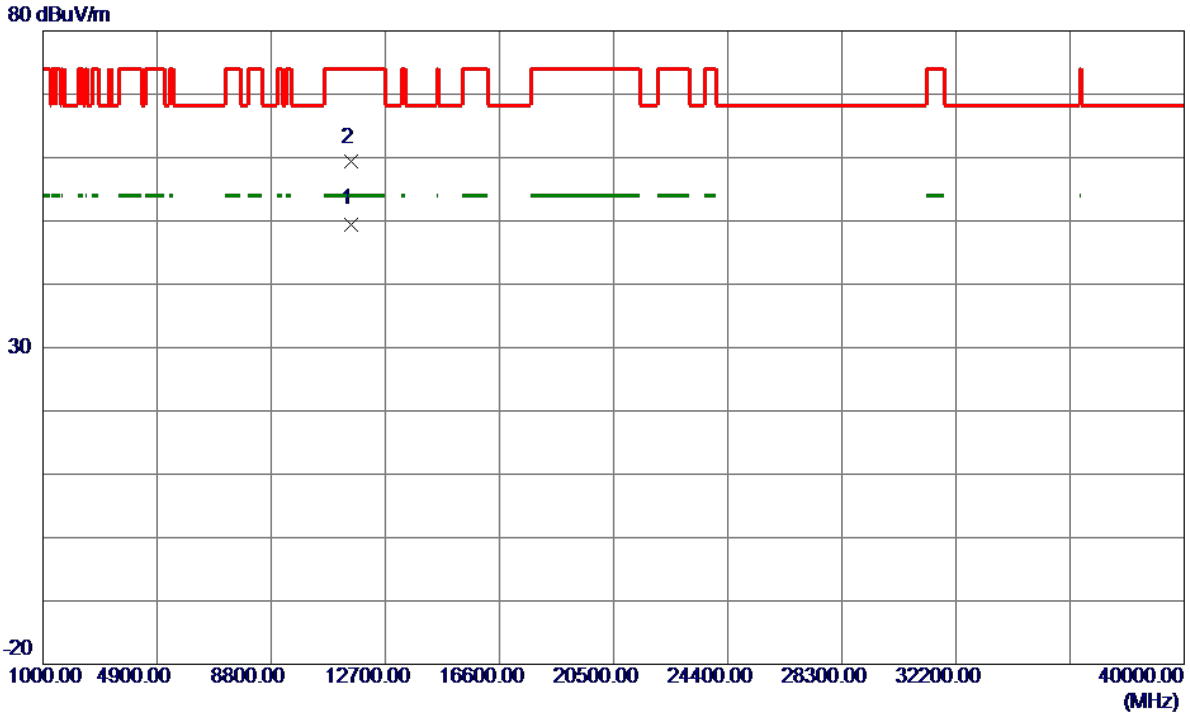
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	68.11	23.16	91.27	109.40	-18.13	Peak	
2	5725.0000	71.42	23.20	94.62	122.20	-27.58	Peak	
3 *	5768.8000	96.99	23.37	120.36	122.20	-1.84	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

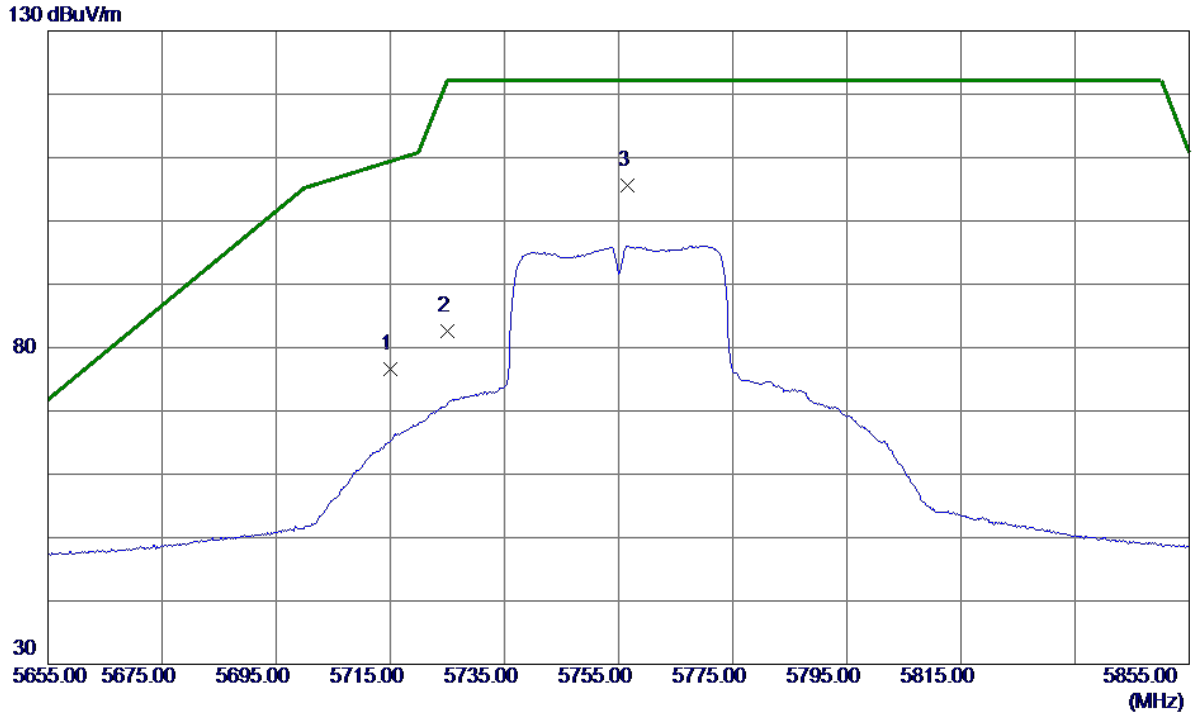
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11510.5000	28.04	21.46	49.50	54.00	-4.50	AVG	
2	11515.6000	37.84	21.46	59.30	74.00	-14.70	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

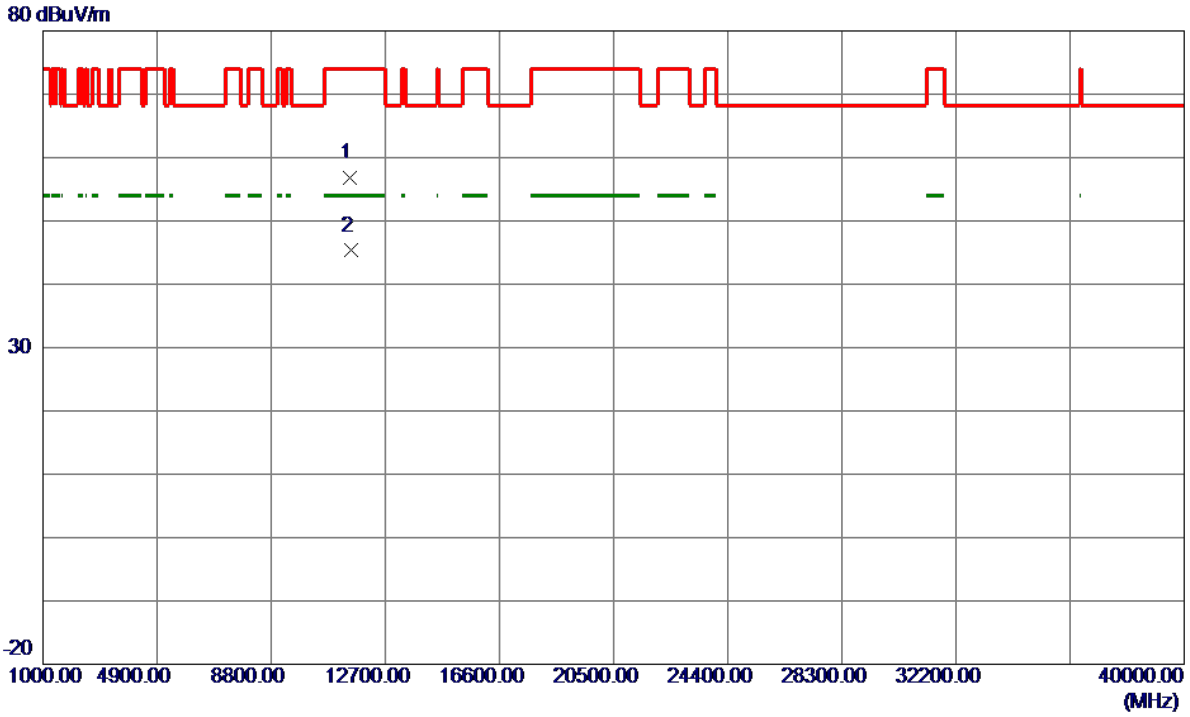
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	53.50	23.16	76.66	109.40	-32.74	Peak	
2	5725.0000	59.32	23.20	82.52	122.20	-39.68	Peak	
3 *	5756.6000	82.35	23.32	105.67	122.20	-16.53	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

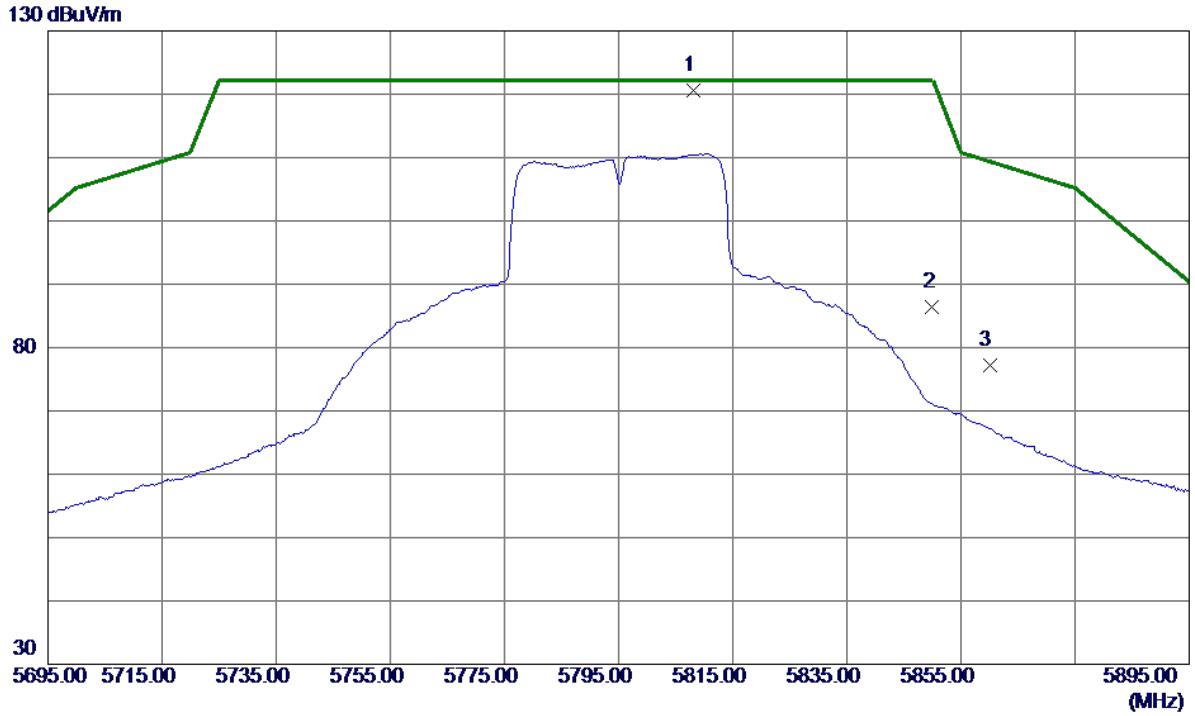
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11503.0000	35.37	21.45	56.82	74.00	-17.18	Peak	
2 *	11509.7000	23.84	21.46	45.30	54.00	-8.70	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

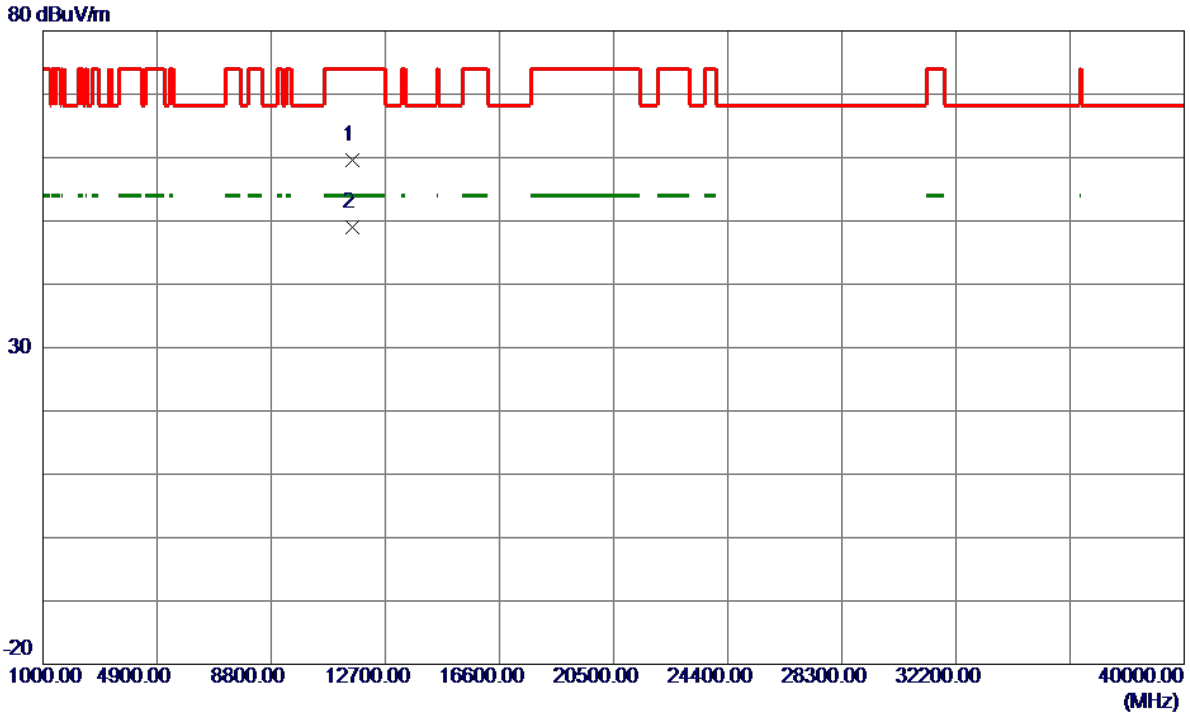
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5808.2000	97.14	23.53	120.67	122.20	-1.53	Peak	
2	5850.0000	62.76	23.69	86.45	122.20	-35.75	Peak	
3	5860.0000	53.51	23.73	77.24	109.40	-32.16	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

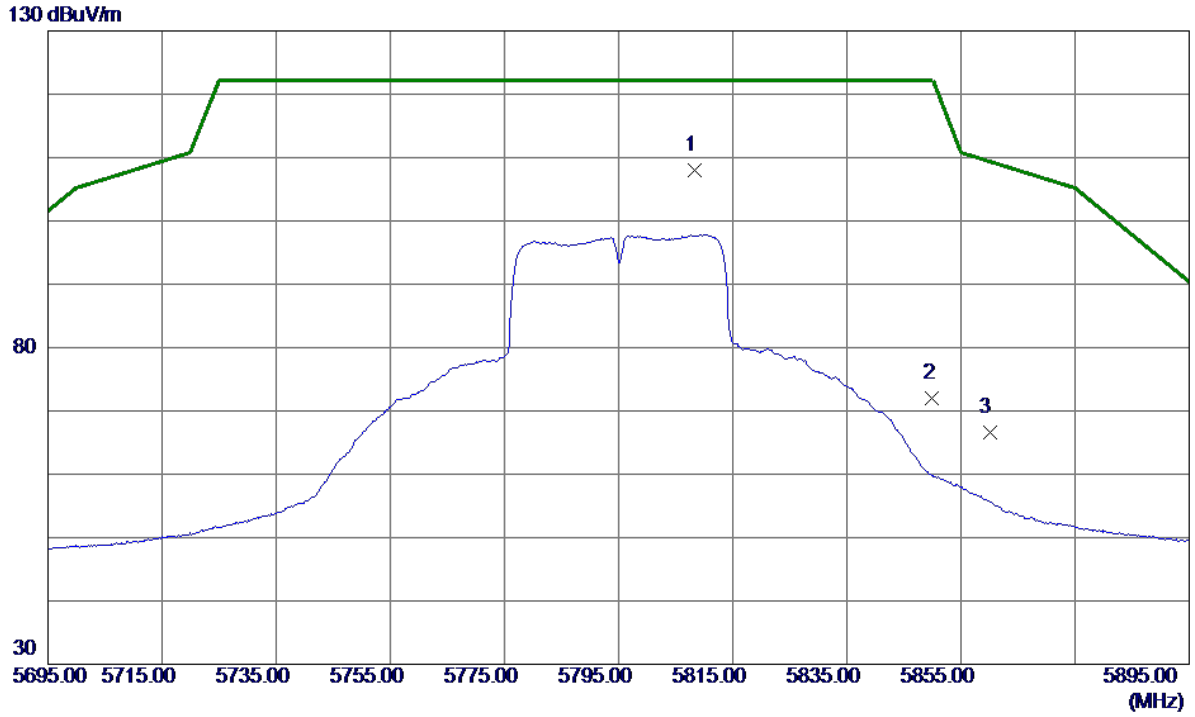
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11582.2000	38.11	21.50	59.61	74.00	-14.39	Peak	
2 *	11590.2000	27.57	21.51	49.08	54.00	-4.92	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

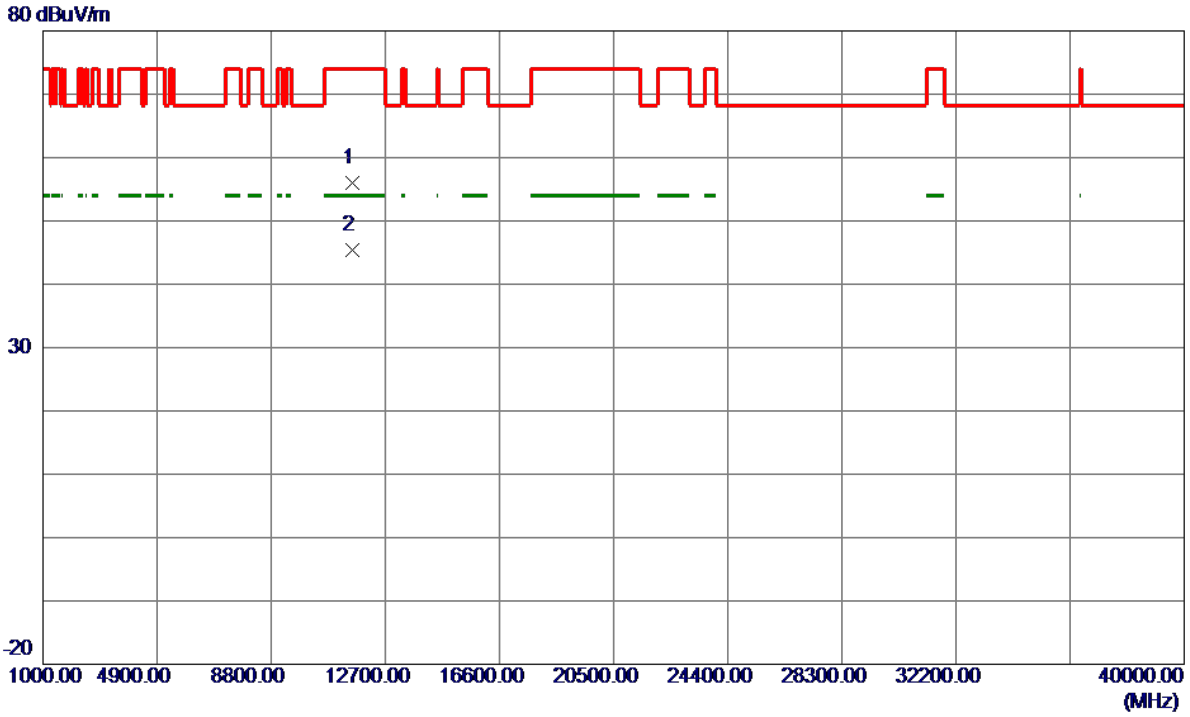
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5808.4000	84.38	23.53	107.91	122.20	-14.29	Peak	
2	5850.0000	48.22	23.69	71.91	122.20	-50.29	Peak	
3	5860.0000	42.94	23.73	66.67	109.40	-42.73	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

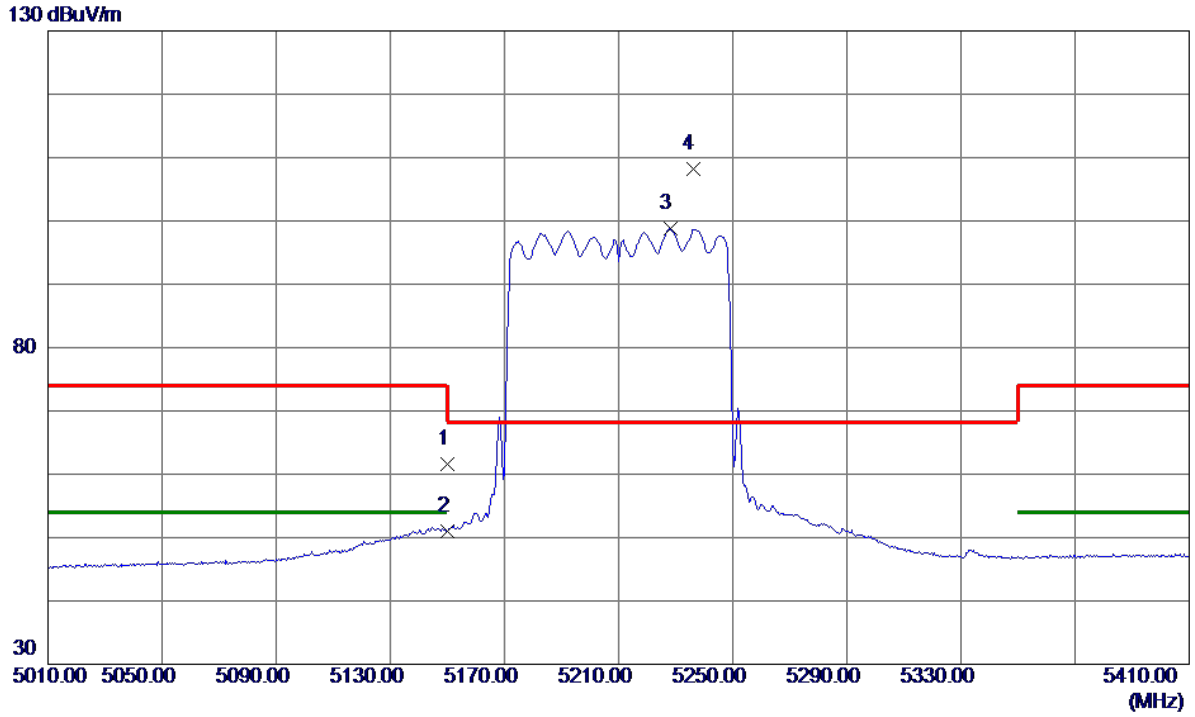
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11582.9000	34.56	21.50	56.06	74.00	-17.94	Peak	
2 *	11590.1000	23.94	21.51	45.45	54.00	-8.55	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	40.55	21.03	61.58	74.00	-12.42	Peak	
2	5150.0000	30.02	21.03	51.05	54.00	-2.95	AVG	
3	5228.0000	77.49	21.32	98.81	999.00	-900.19	AVG	No Limit
4 *	5236.0000	86.77	21.34	108.11	68.30	39.81	Peak	No Limit

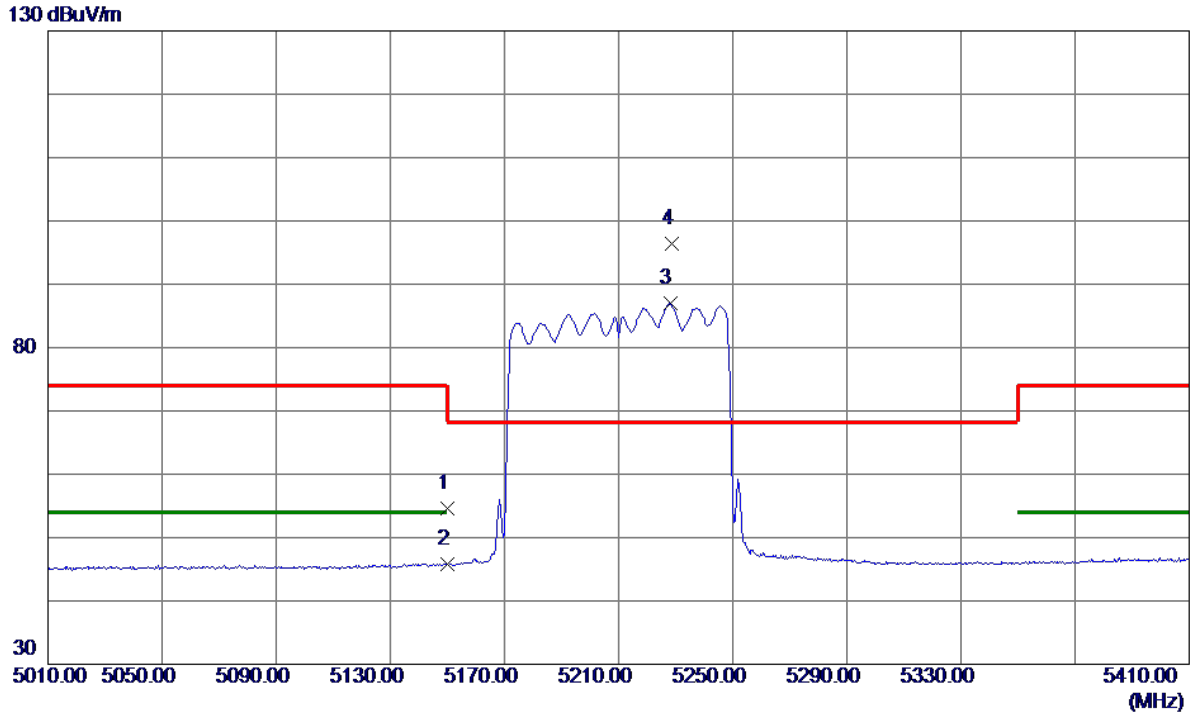
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

Vertical

No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10429.8400	31.16	20.37	51.53	68.30	-16.77	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

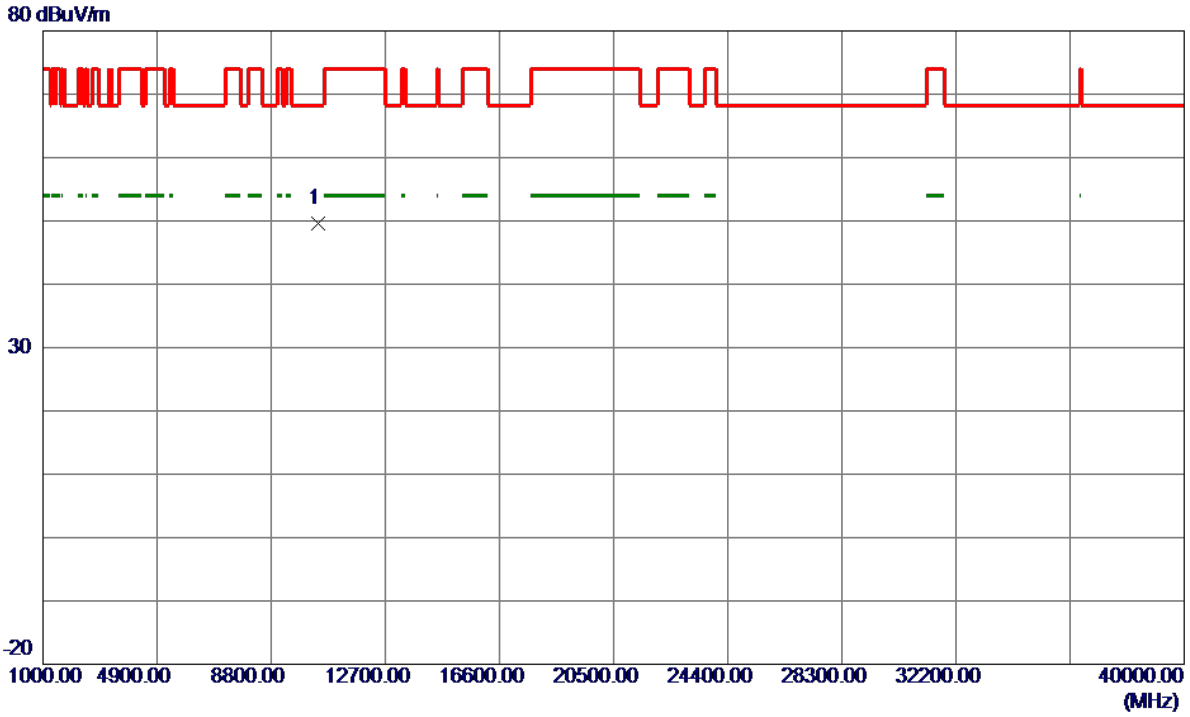
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	33.60	21.03	54.63	74.00	-19.37	Peak	
2	5150.0000	24.72	21.03	45.75	54.00	-8.25	AVG	
3	5228.0000	65.59	21.32	86.91	999.00	-912.09	AVG	No Limit
4 *	5228.8000	74.99	21.32	96.31	68.30	28.01	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

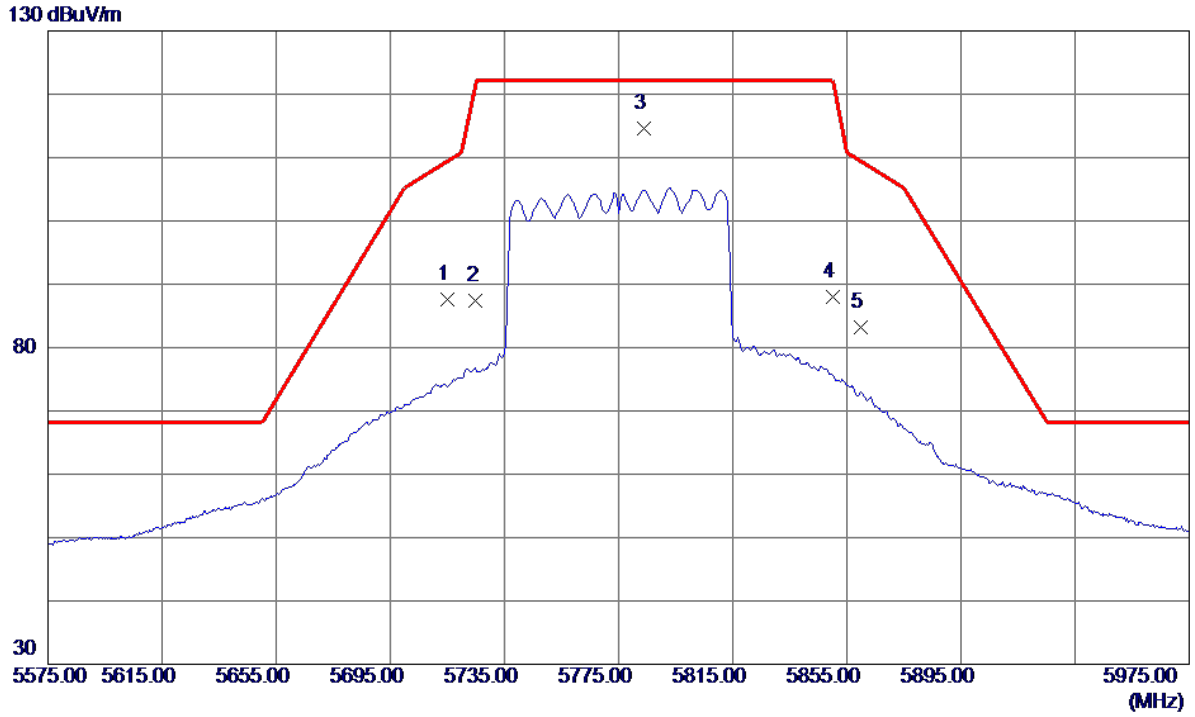
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10423.3200	29.21	20.36	49.57	68.30	-18.73	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

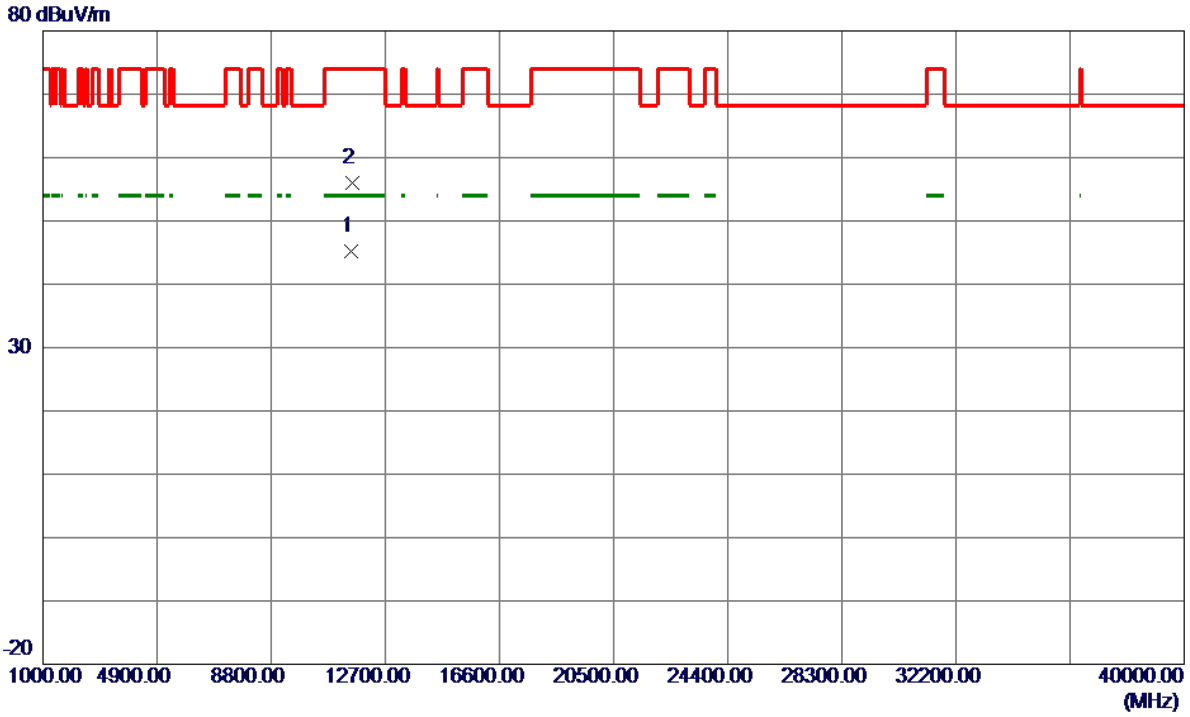
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	64.36	23.16	87.52	109.40	-21.88	Peak	
2	5725.0000	64.11	23.20	87.31	122.20	-34.89	Peak	
3 *	5783.8000	91.18	23.43	114.61	122.20	-7.59	Peak	
4	5850.0000	64.36	23.69	88.05	122.20	-34.15	Peak	
5	5860.0000	59.52	23.73	83.25	109.40	-26.15	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

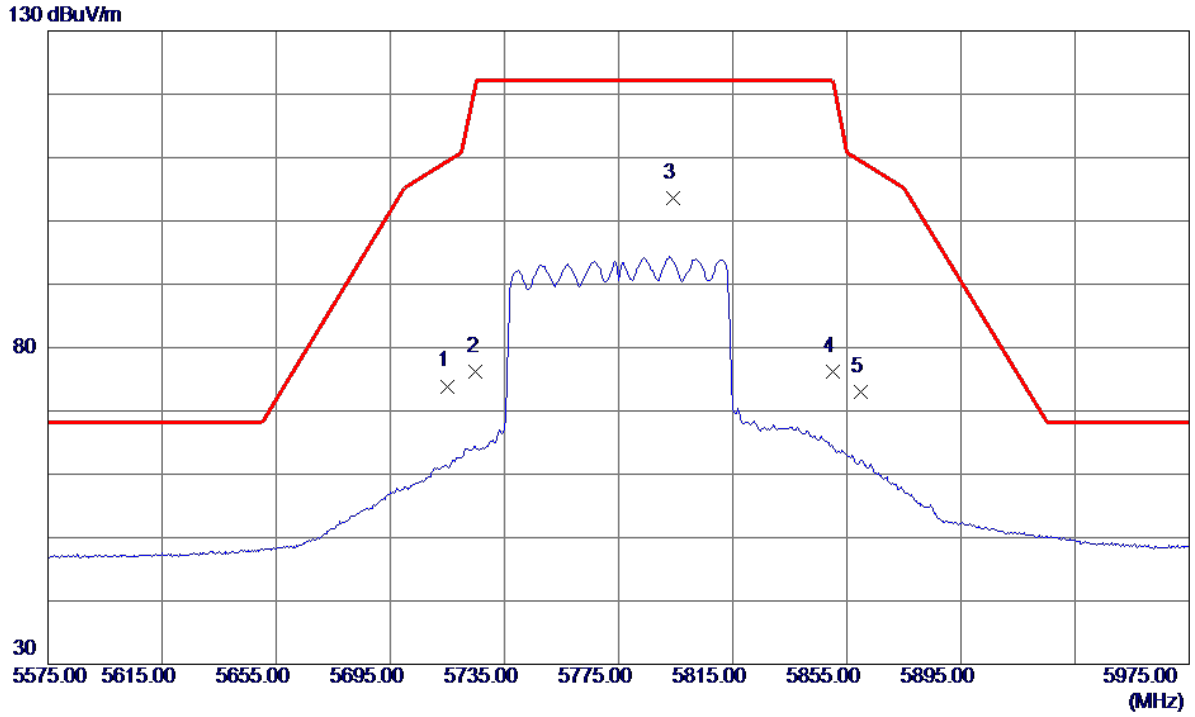
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11550.4000	23.69	21.48	45.17	54.00	-8.83	AVG	
2	11560.2000	34.48	21.49	55.97	74.00	-18.03	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

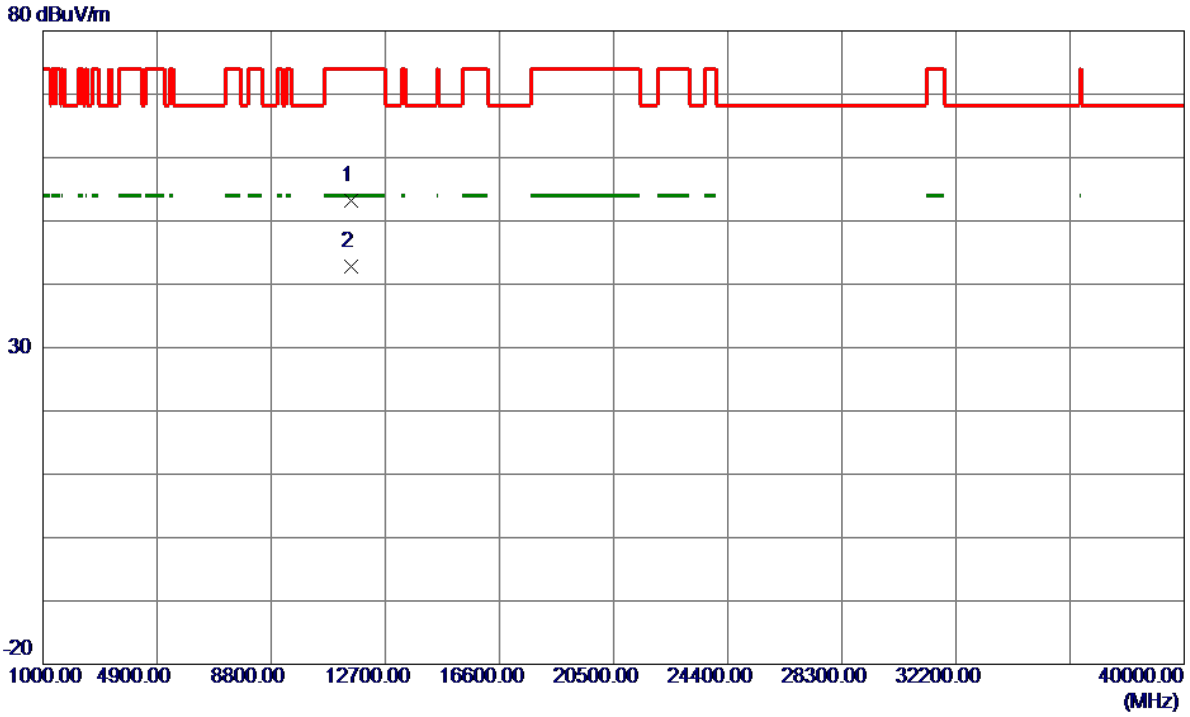
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	50.74	23.16	73.90	109.40	-35.50	Peak	
2	5725.0000	53.02	23.20	76.22	122.20	-45.98	Peak	
3 *	5794.2000	80.08	23.47	103.55	122.20	-18.65	Peak	
4	5850.0000	52.50	23.69	76.19	122.20	-46.01	Peak	
5	5860.0000	49.20	23.73	72.93	109.40	-36.47	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11530.8000	31.68	21.47	53.15	74.00	-20.85	Peak	
2 *	11550.2000	21.37	21.48	42.85	54.00	-11.15	AVG	

TX A Mode_DUTY CYCLE

Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} / T_{Total}

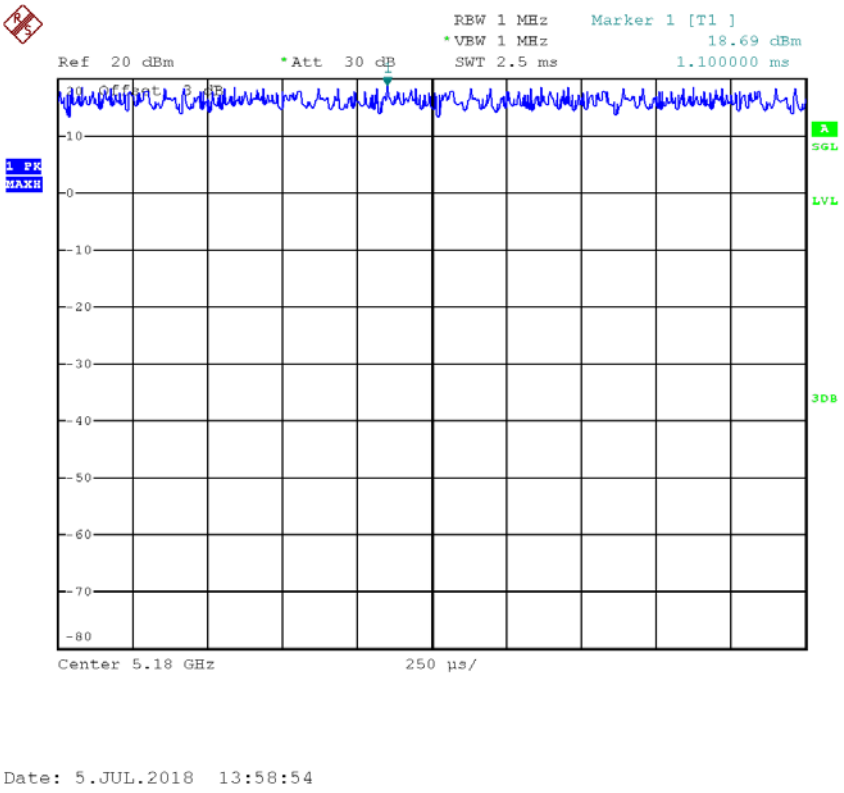
T_{ON}: 100000.000 msec

T_{Total}: 100000.000 msec

Duty cycle: 100.000%

Duty Factor = 10 log(1/Duty cycle)

Duty Factor = 0.00



Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

TX N20 Mode_DUTY CYCLE

Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} / T_{Total}

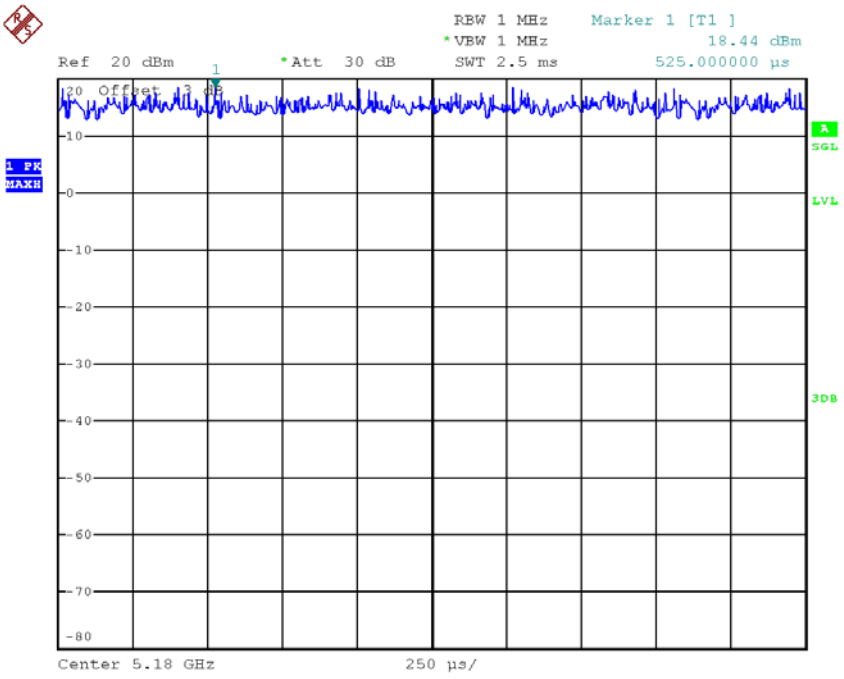
T_{ON}: 100000.000 msec

T_{Total}: 100000.000 msec

Duty cycle: 100.000%

Duty Factor = 10 log(1/Duty cycle)

Duty Factor = 0.00



Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

TX N40 Mode_DUTY CYCLE

Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} / T_{Total}

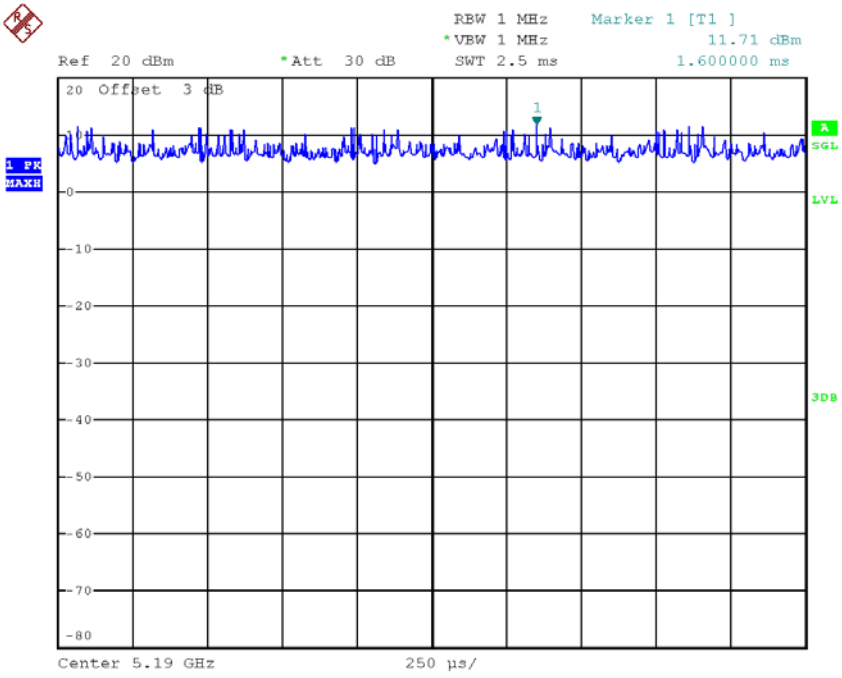
T_{ON}: 100000.000 msec

T_{Total}: 100000.000 msec

Duty cycle: 100.000%

Duty Factor = 10 log(1/Duty cycle)

Duty Factor = 0.00



Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

TX AC80 Mode_DUTY CYCLE

Duty cycle: TX DUTYMHz

Duty cycle = T_{ON} / T_{Total}

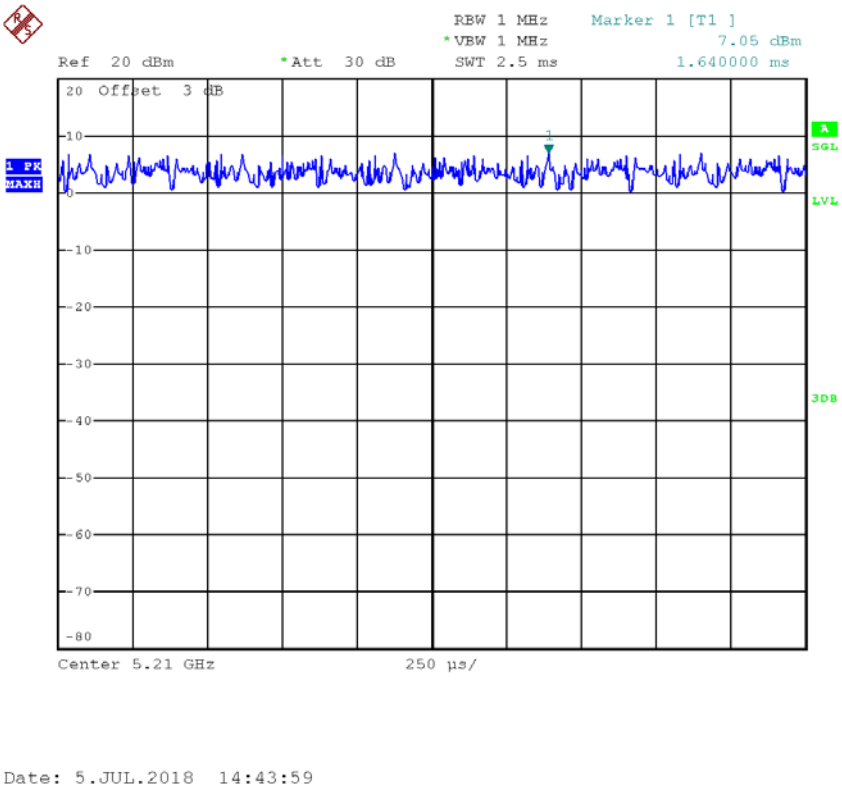
T_{ON}: 100000.000 msec

T_{Total}: 100000.000 msec

Duty cycle: 100.000%

Duty Factor = 10 log(1/Duty cycle)

Duty Factor = 0.00



Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducy factor
Power Spectral Density = Measured density + Duty factor

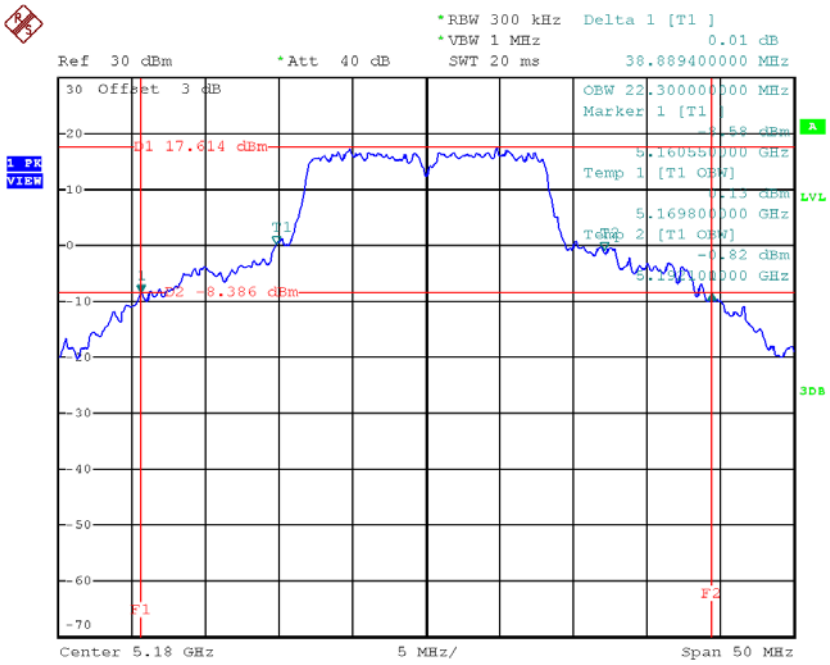
APPENDIX E - BANDWIDTH

Non Beamforming

Test Mode: UNII-1/TX A Mode_CH36/CH40/CH48			

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	38.89	22.30
CH40	5200	43.59	30.80
CH48	5240	43.60	31.30

TX CH36



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