

FCC Radio Test Report

FCC ID: Q87-RE7000

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

Project No. : 1602056
Equipment : WiFi repeater
Model Name : RE7000
Applicant : Linksys LLC
Address : 121 Theory Drive, Irvine, CA, 92617, USA

Date of Receipt : Feb. 18, 2016
Date of Test : Feb. 18, 2016 ~ Mar. 28, 2016
Issued Date : Mar. 29, 2016
Tested by : BTL Inc.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1602056	Original Issue.	Mar. 29, 2016

1. CERTIFICATION

Equipment : WiFi repeater
Brand Name : LINKSYS
Model Name : RE7000
Applicant : Linksys LLC
Date of Test : Feb. 18, 2016 ~ Mar. 28, 2016
Test Sample : Engineering Sample
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-2-1602056) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E			
Standard(s) Section	Test Item	Judgment	Under Limit
15.207	AC Power Line Conducted Emissions	PASS	Limit Minimum passing margin is -4.91 dB at 0.7340 MHz
15.407(a)	26dB Spectrum Bandwidth	PASS	-
15.407(a)	Maximum Conducted Output Power	PASS	Limit Maximum output power is 25.65 dBm
15.407(a)	Power Spectral Density	PASS	-
15.407(a)	Radiated Emissions	PASS	Limit Minimum passing margin is -2.94 dB at 35.8200 MHz
15.407(b)	Band Edge Emissions	PASS	Limit Minimum passing margin is -1.07 dB at 5724.25 MHz
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

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:949005; FCC DN:TW1082)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB11: (VCCI RN: R-4260; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB11: (VCCI RN: G-868; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088)

No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{CISPR} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted emission test:

Test Site	Method	Measurement Frequency Range	U,(dB)
C05	CISPR	150 kHz ~ 30MHz	2.04

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
CB11 (3m)	CISPR	30MHz ~ 200MHz	V	3.06
		30MHz ~ 200MHz	H	2.58
		200MHz ~ 1,000MHz	V	3.50
		200MHz ~ 1,000MHz	H	3.10

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
CB11 (3m)	CISPR	1GHz ~ 6GHz	V	4.14
		1GHz ~ 6GHz	H	4.14
		6GHz ~ 18GHz	V	5.34
		6GHz ~ 18GHz	H	5.34

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

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	WiFi repeater	
Brand Name	LINKSYS	
Model Name	RE7000	
Mode Different	N/A	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	300Mbps
Power Source	AC Mains Power Board: #1 Brand / Model: HON-KWANG / HK-XX24-A12 #2 Brand / Model: AMIGO / AMS151-1202000F	
Power Rating	I/P: 100-240V~50/60Hz 0.5A O/P: 12V 2.0A	
Output Power	Output Power (Max.)for UNII-1 Non-Beamforming	802.11a: 21.21dBm 802.11n (20M): 22.72dBm 802.11n (40M): 24.17dBm 802.11ac (20M): 22.70dBm 802.11ac (40M): 22.37dBm 802.11ac (80M): 25.22dBm
	Output Power (Max.)for UNII-3 Non-Beamforming	802.11a: 21.09dBm 802.11n (20M): 22.60dBm 802.11n (40M): 23.84dBm 802.11ac (20M): 22.76dBm 802.11ac (40M): 23.56dBm 802.11ac (80M): 25.65dBm
	Output Power (Max.)for UNII-1 Beamforming	802.11n (20M): 22.90dBm 802.11n (40M): 22.85dBm 802.11ac (80M): 20.25dBm
	Output Power (Max.)for UNII-3 Beamforming	802.11n (20M): 21.12dBm 802.11n (40M): 22.48dBm 802.11ac (80M): 19.08dBm

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 802.11ac 20MHz		802.11n 40MHz 802.11ac 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 802.11ac 20MHz		802.11n 40MHz 802.11ac 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. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		Note
					Band 1	Band 4	
1	Aristotle	N/A	PCB	iPEX	3.21	3.21	TX/RX
2	Aristotle	N/A	PCB	iPEX	3.30	3.30	TX/RX
3	Aristotle	N/A	PCB	iPEX	3.25	3.25	TX/RX
4	Aristotle	N/A	PCB	iPEX	2.46	2.46	TX/RX

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides four completed transmitters and receivers (4T4R), All transmit signals are completely uncorrelated.
- (2) All Ant. 1, Ant. 2, Ant. 3 and Ant. 4 can be used as transmitting/receiving antenna. Ant. 1, Ant. 2, Ant. 3 and Ant. 4 could transmit/receive simultaneously.
The Ant. 1+ Ant. 2+ Ant. 3 + Ant. 4 generated the worst case, so it was selected to test and record in the report.
- (3) The EUT(N mode & AC mode) with beamforming function, then,

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where N_{SS} = the number of independent spatial streams of data,
 N_{ANT} = the total number of antennas
 $g_{j,k}$ = if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna
 $Directional\ gain = 10 \cdot \log(((10^{(ant.1\ gain/20)} + 10^{(ant.2\ gain/20)} + 10^{(ant.3\ gain/20)} + 10^{(ant.4\ gain/20)})^2 / 4)$
the Output Power of UNII-1&UNII-3 limit = $30 - (9.08 - 6) = 26.92$,
the PSD of UNII-1 for AC mode limit = $17 - (9.08 - 6) = 13.92$,
the PSD of UNII-3 for AC mode limit = $30 - (9.08 - 6) = 26.92$

4.

Operating Mode TX Mode	4TX
802.11a	V (ANT 1 + ANT 2+ ANT 3+ ANT 4)
802.11n(20MHz)	V (ANT 1 + ANT 2+ ANT 3+ ANT 4)
802.11n(40MHz)	V (ANT 1 + ANT 2+ ANT 3+ ANT 4)
802.11ac(20MHz)	V (ANT 1 + ANT 2+ ANT 3+ ANT 4)
802.11ac(40MHz)	V (ANT 1 + ANT 2+ ANT 3+ ANT 4)
802.11ac(80MHz)	V (ANT 1 + ANT 2+ ANT 3+ ANT 4)

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 AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)
Mode 13	Normal Link

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

For AC Power Line Conducted Emissions Test	
Final Test Mode	Description
Mode 13	Normal Link

For 26dB Spectrum Bandwidth 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 AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

For Maximum Conducted Output Power 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 AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

For Power Spectral Density 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 AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

For Radiated Emissions 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 AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

For Band Edge Emissions 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 AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

For Frequency Stability Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36 (UNII-1)
Mode 7	TX A Mode / CH149 (UNII-3)

For Antenna Requirements 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 AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

Note:

- (1) For radiated below 1G test, the 802.11a mode is found to be the worst case and recorded.
- (2) The EUT was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

3.3 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	ART		
Frequency (MHz)	5180	5200	5240
A Mode	15	14	15
N20 Mode	15	14	15
Frequency (MHz)	5190	5230	
N40 Mode	14	15	

UNII-3			
Test Software Version	ART		
Frequency (MHz)	5745	5785	5825
A Mode	15	14	12
N20 Mode	15	15	12
Frequency (MHz)	5755	5795	
N40 Mode	14	14	

UNII-1			
Test Software Version	ART		
Frequency (MHz)	5180	5200	5240
AC20 Mode	14	14	15
Frequency (MHz)	5190	5230	
AC40 Mode	16	17	
Frequency (MHz)	5210		
AC80 Mode	19		

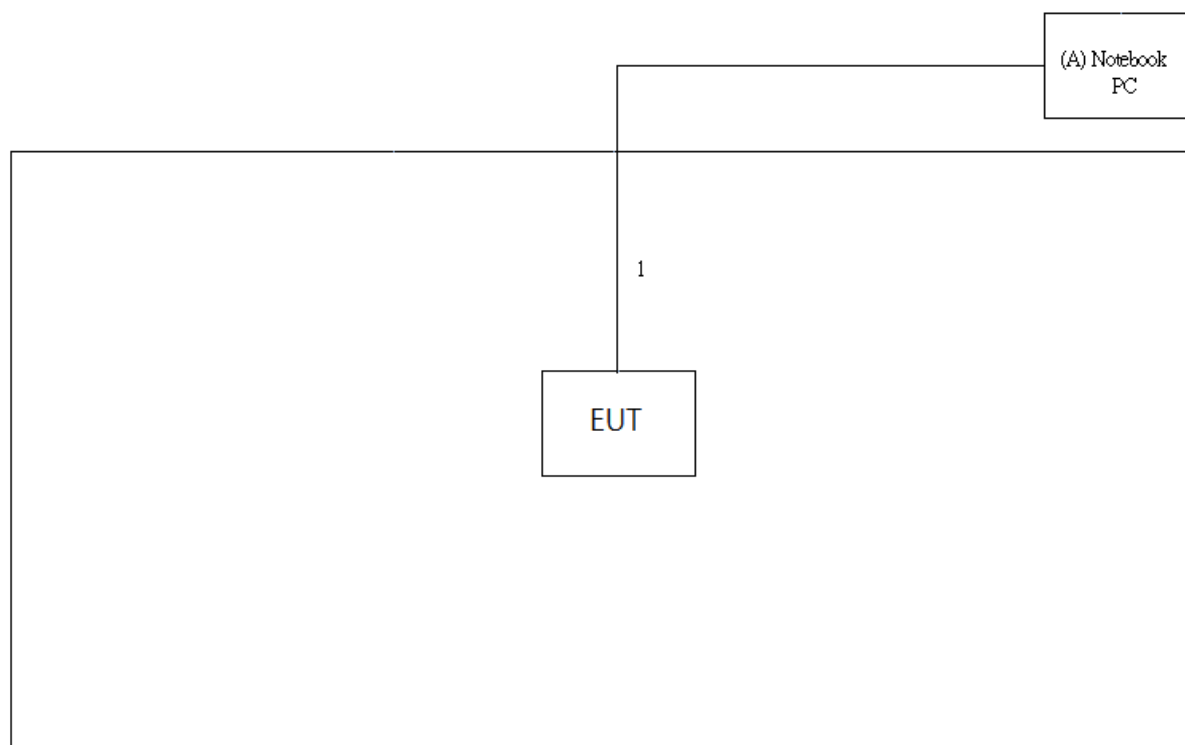
UNII-3			
Test Software Version	ART		
Frequency (MHz)	5745	5785	5825
AC20 Mode	15	15	12
Frequency (MHz)	5755	5795	
AC40 Mode	16	16	
Frequency (MHz)	5775		
AC80 Mode	19		

Beamforming

UNII-1			
Test Software Version			
Frequency (MHz)	5180	5200	5240
N20 Mode	20	20	20
Frequency (MHz)	5190	5230	
N40 Mode	20	25	
Frequency (MHz)	5210		
AC80 Mode	20		

UNII-3			
Test Software Version			
Frequency (MHz)	5745	5785	5825
N20 Mode	20	20	20
Frequency (MHz)	5755	5795	
N40 Mode	20	25	
Frequency (MHz)	5775		
AC80 Mode	20		

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 PC	Acer	ZH2	DOC	LXTCY050356360BDB5 2500

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	8m	RJ45

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.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

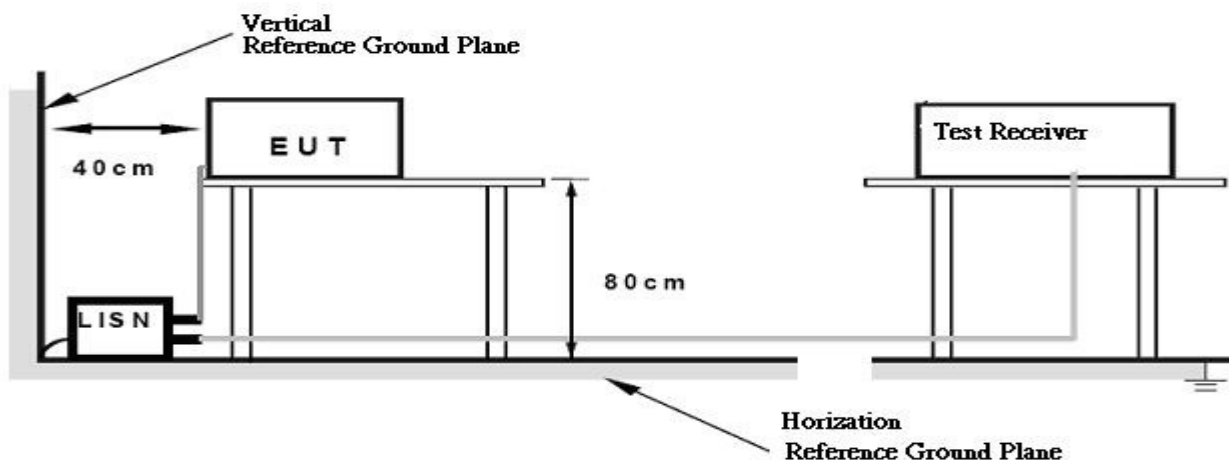
4.1.2 TEST PROCEDURE

- 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 placed on the test table and programmed in normal function.

4.1.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment 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

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5725-5850	-27 (beyond 10MHz of the band edge)	68.3
	-17 (within 10 MHz of band edge)	78.3

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

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

4.2.2 TEST PROCEDURE

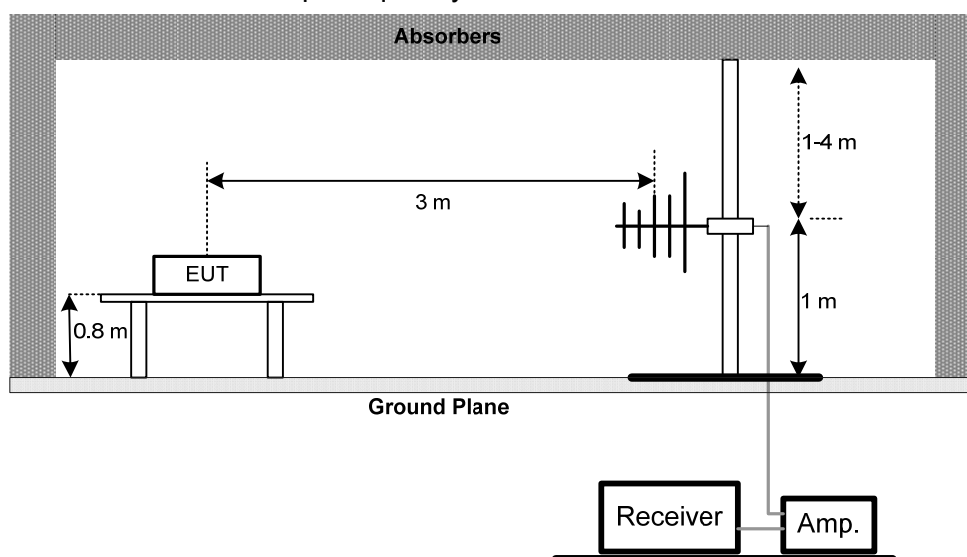
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

4.2.3 DEVIATION FROM TEST STANDARD

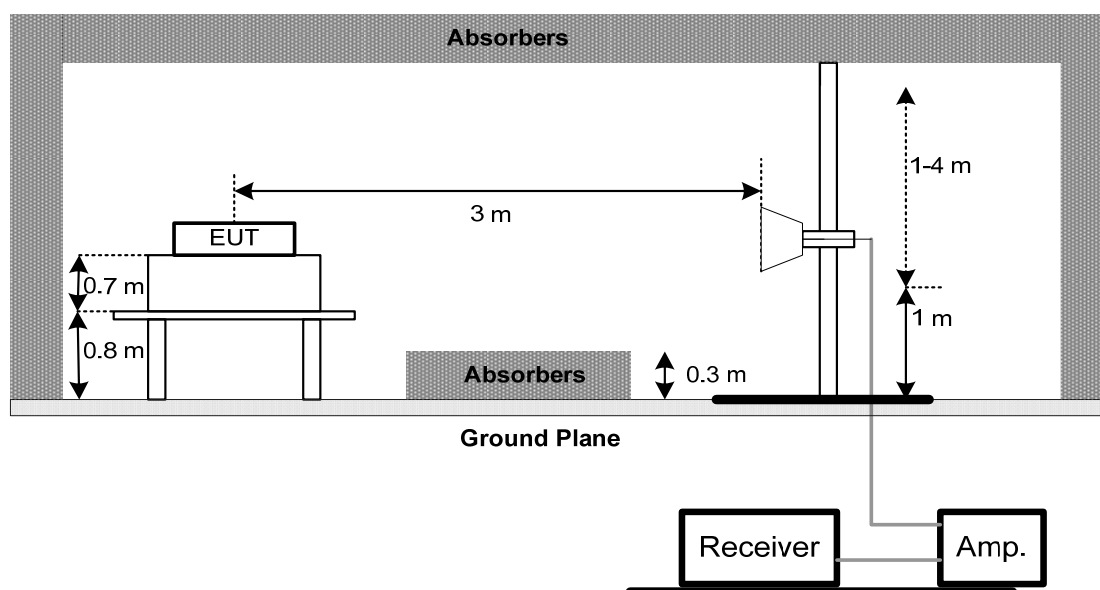
No deviation

4.2.4 TEST SETUP

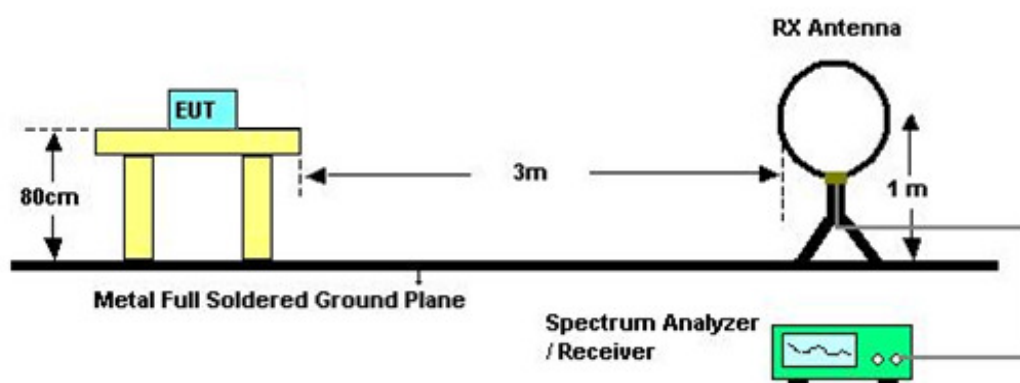
(A) Radiated Emission Test Set-Up Frequency Below 1GHz



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



(C) Radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (30 TO 1000 MHz)

Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120kHz, SPA setting in RBW=120kHz, VBW=120kHz, Swp. Time = 0.3 sec./MHz ◦
- (2) 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 ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦

4.2.9 TEST RESULTS (1GHZ~10TH HARMONIC)

Please refer to the Attachment D.

Remark:

- (1) Spectrum Setting: 30MHz – 1000MHz , RBW= 100kHz, VBW=100kHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
“X” - denotes Laid on Table, “Y” - denotes Vertical Stand, “Z” - denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.
- (8) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

4.3 BAND EDGE MEASUREMENT

4.3.1 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 (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5725-5850	-27 (beyond 10MHz of the band edge)	68.3
	-17 (within 10 MHz of band edge)	78.3

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

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

4.3.2 TEST PROCEDURE

For Radiated band edges Measurement:

- a. The test procedure is the same as section 4.2.2, only the frequency range investigated is limited to 100MHz around band edges.

For Radiated Out of Band Emission Measurement:

- a. Test was performed in accordance with KDB 789033 D02 General UNII Test Procedures New Rules v01.

4.3.3 DEVIATION FROM TEST STANDARD

No deviation

4.3.4 TEST SETUP LAYOUT

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.2.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.2.4.

4.3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.3.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

4.3.7 TEST RESULTS (BAND EDGE AND FUNDAMENTAL EMISSIONS)

Please refer to the Attachment E

Remark:

- (1) Spectrum Setting: 30MHz – 1000MHz , RBW= 100kHz, VBW=100kHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
“X” - denotes Laid on Table, “Y” - denotes Vertical Stand, “Z” - denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.
- (8) 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
VBW	1000 kHz
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 was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment F.

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

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	$\geq$ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

- 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 was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment G.

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

7.1.1 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	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	Auto

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01, 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.
- The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ 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.

7.1.1 DEVIATION FROM STANDARD

No deviation.

7.1.2 TEST SETUP



7.1.3 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.4 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

7.1.5 TEST RESULTS

Please refer to the Attachment 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.

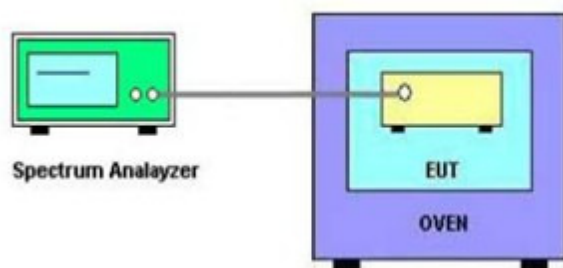
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- 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 was programmed to be in continuously transmitting mode.

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 Attachment I.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 26, 2017
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 14, 2016
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 09, 2016
4	Power Dividers	HP	11636A	8103	May 04, 2016
5	Measurement Software	EZ	EZ EMC (Version NB-03A)	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB9168-352	9168-352	Jul. 30, 2016
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-325	Apr. 20, 2016
3	Horn Antenna	Schwarzbeck	BBHA 9120	9120D-1333	May 20, 2016
4	Pre-Amplifier	Anritsu	MH648A	M92649	Jun. 16, 2016
5	Pre-Amplifier	Agilent	8449B	3008A01714	Apr. 14, 2016
6	Test Cable	LMR	LMR-400	01(10M)	May 12, 2016
7	Test Cable	LMR	LMR-400	01(3M)	May 12, 2016
8	Test Cable	Harbour industries	27478LL142	1M	May 13, 2016
9	Test Cable	Harbour industries	27478LL142	3M	May 13, 2016
10	Test Cable	AISI	S104-SMAP-1	8M	May 13, 2016
11	Spectrum Analyzer	Agilent	N9020A	MY51160196	Aug. 02, 2016
12	EMI Test Receiver	R&S	ESCI	100080	May 13, 2016
13	Measurement Software	Farad	EZ EMC (Version NB-03A)	N/A	N/A
14	Loop Ant	EMCO	6502	42960	Nov.15.2016

Spectrum Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	May 19, 2016
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 18, 2016

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

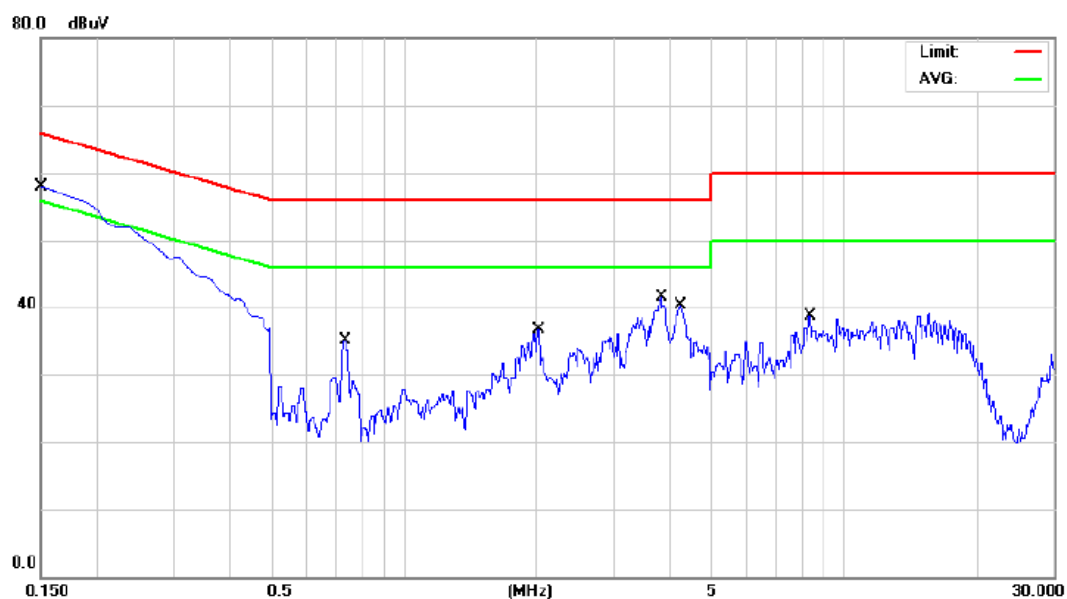
Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017
2	Const Temp. & Humidity Chamber	Giant Force	ITH-225-20-S	IAB0309-001	Dec.04 2016

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

ATTACHMENT A - CONDUCTED EMISSION

Test Mode: Normal Link_Adapter: HON-KWANG / HK-XX24-A12

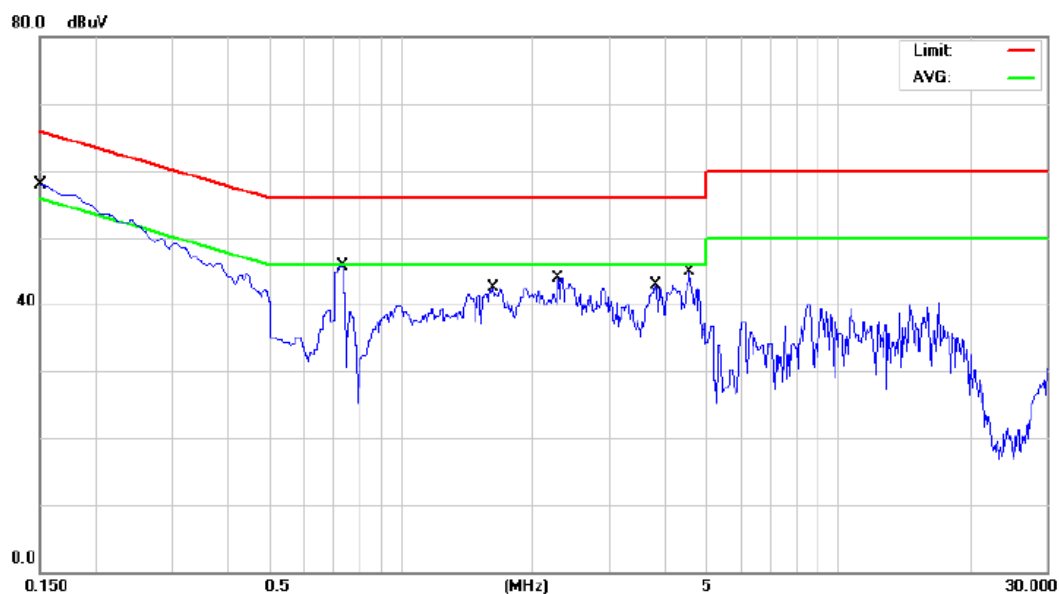
Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1500	31.70	9.67	41.37	65.99	-24.62	QP	
2		0.1500	18.40	9.67	28.07	55.99	-27.92	AVG	
3		0.7340	23.40	9.69	33.09	56.00	-22.91	QP	
4		0.7340	20.20	9.69	29.89	46.00	-16.11	AVG	
5		2.0120	18.90	9.76	28.66	56.00	-27.34	QP	
6		2.0120	12.50	9.76	22.26	46.00	-23.74	AVG	
7		3.8390	29.60	9.84	39.44	56.00	-16.56	QP	
8	*	3.8390	20.40	9.84	30.24	46.00	-15.76	AVG	
9		4.2350	25.20	9.85	35.05	56.00	-20.95	QP	
10		4.2350	16.40	9.85	26.25	46.00	-19.75	AVG	
11		8.3500	25.30	9.93	35.23	60.00	-24.77	QP	
12		8.3500	17.70	9.93	27.63	50.00	-22.37	AVG	

Test Mode: Normal Link_Adapter: HON-KWANG / HK-XX24-A12

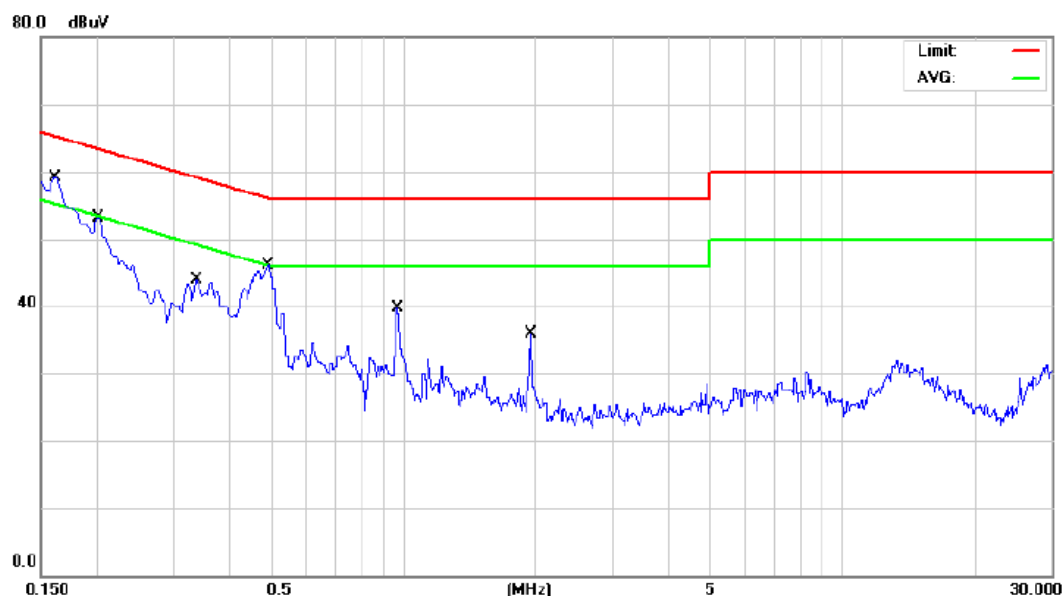
Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	28.40	9.66	38.06	65.99	-27.93	QP	
2		0.1500	11.50	9.66	21.16	55.99	-34.83	AVG	
3		0.7340	35.30	9.69	44.99	56.00	-11.01	QP	
4	*	0.7340	31.40	9.69	41.09	46.00	-4.91	AVG	
5		1.6250	29.30	9.73	39.03	56.00	-16.97	QP	
6		1.6250	23.40	9.73	33.13	46.00	-12.87	AVG	
7		2.2820	28.90	9.76	38.66	56.00	-17.34	QP	
8		2.2820	20.20	9.76	29.96	46.00	-16.04	AVG	
9		3.8120	31.20	9.83	41.03	56.00	-14.97	QP	
10		3.8120	22.50	9.83	32.33	46.00	-13.67	AVG	
11		4.5590	27.30	9.86	37.16	56.00	-18.84	QP	
12		4.5590	16.60	9.86	26.46	46.00	-19.54	AVG	

Test Mode: Normal Link_Adapter: AMIGO / AMS151-1202000F

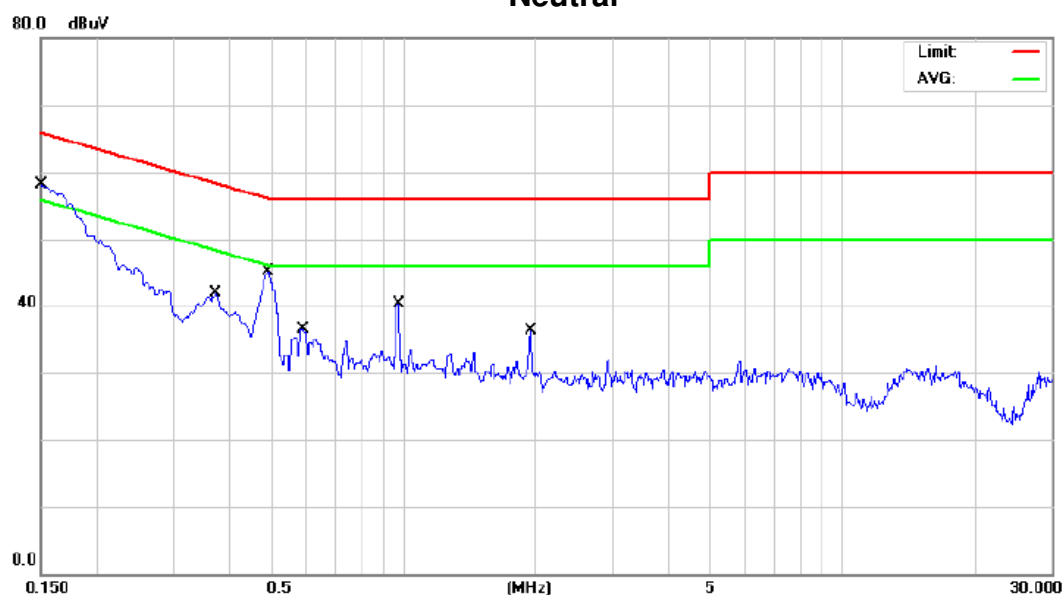
Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.1612	42.60	9.67	52.27	65.40	-13.13	QP	
2		0.1612	26.80	9.67	36.47	55.40	-18.93	AVG	
3		0.2017	39.30	9.66	48.96	63.54	-14.58	QP	
4		0.2017	25.00	9.66	34.66	53.54	-18.88	AVG	
5		0.3376	26.30	9.66	35.96	59.26	-23.30	QP	
6		0.3376	17.90	9.66	27.56	49.26	-21.70	AVG	
7		0.4930	34.30	9.67	43.97	56.12	-12.15	QP	
8		0.4930	26.20	9.67	35.87	46.12	-10.25	AVG	
9		0.9680	28.40	9.70	38.10	56.00	-17.90	QP	
10	*	0.9680	27.20	9.70	36.90	46.00	-9.10	AVG	
11		1.9490	24.00	9.76	33.76	56.00	-22.24	QP	
12		1.9490	23.40	9.76	33.16	46.00	-12.84	AVG	

Test Mode: Normal Link_Adapter: AMIGO / AMS151-1202000F

Neutral

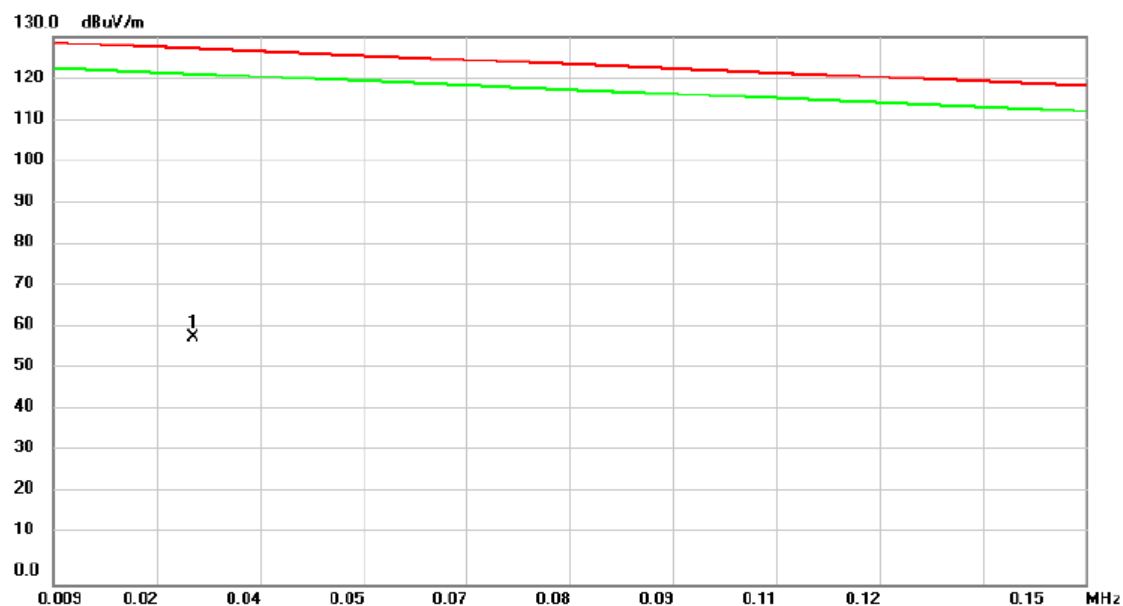


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	40.90	9.66	50.56	65.99	-15.43	QP	
2	0.1500	23.50	9.66	33.16	55.99	-22.83	AVG	
3	0.3733	25.40	9.67	35.07	58.43	-23.36	QP	
4	0.3733	16.40	9.67	26.07	48.43	-22.36	AVG	
5	0.4937	32.20	9.68	41.88	56.11	-14.23	QP	
6	0.4937	23.60	9.68	33.28	46.11	-12.83	AVG	
7	0.5899	21.10	9.68	30.78	56.00	-25.22	QP	
8	0.5899	15.20	9.68	24.88	46.00	-21.12	AVG	
9	0.9770	28.60	9.70	38.30	56.00	-17.70	QP	
10 *	0.9770	27.70	9.70	37.40	46.00	-8.60	AVG	
11	1.9490	25.50	9.75	35.25	56.00	-20.75	QP	
12	1.9490	24.00	9.75	33.75	46.00	-12.25	AVG	

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

Test Mode:	UNII-1/ TX_Adapter: HON-KWANG / HK-XX24-A12
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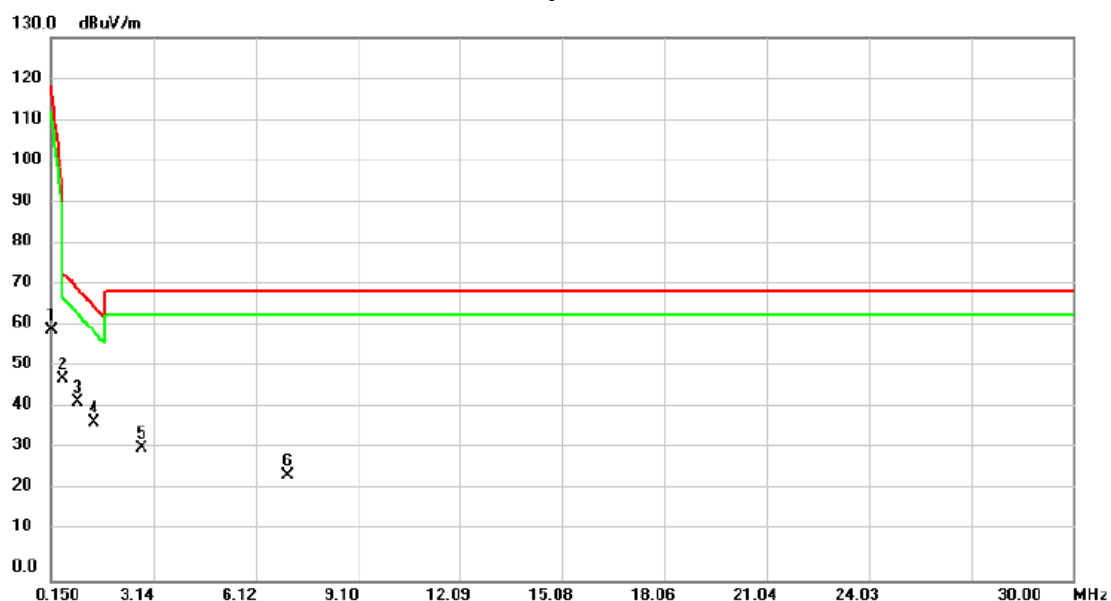
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0280	43.17	15.55	58.72	127.15	-68.43	peak	

Test Mode: UNII-1/ TX_Adapter: HON-KWANG / HK-XX24-A12

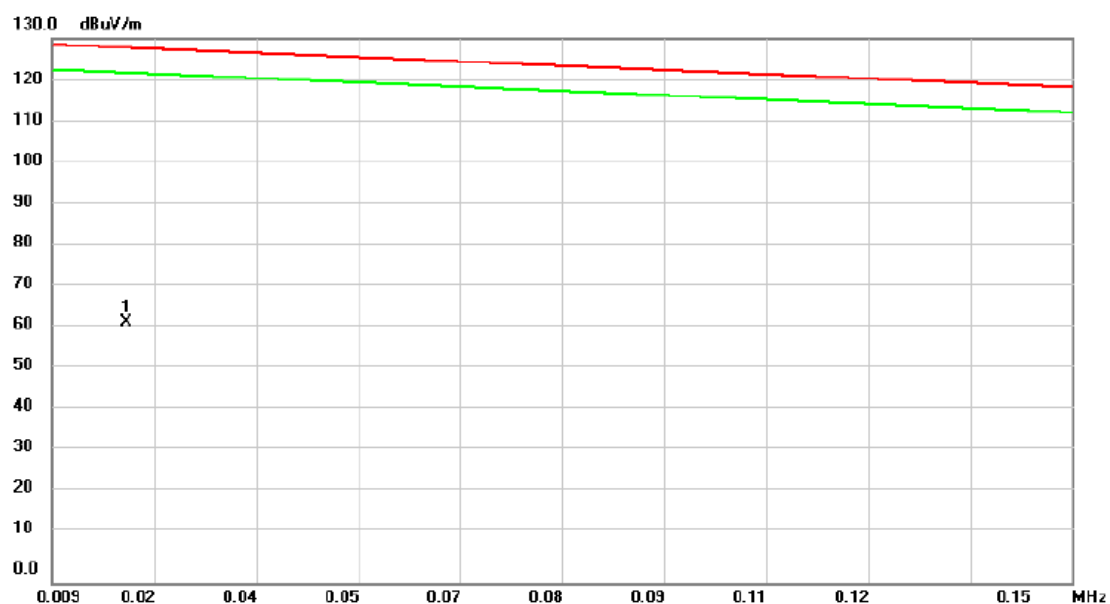
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.93	12.03	59.96	118.34	-58.38	peak	
2	*	0.5080	36.55	11.80	48.35	73.64	-25.29	peak	
3		0.9261	30.79	11.97	42.76	69.91	-27.15	peak	
4		1.4032	26.02	11.82	37.84	65.66	-27.82	peak	
5		2.8065	20.46	11.19	31.65	69.54	-37.89	peak	
6		7.0453	13.75	11.36	25.11	69.54	-44.43	peak	

Test Mode: UNII-1/ TX_Adapter: HON-KWANG / HK-XX24-A12

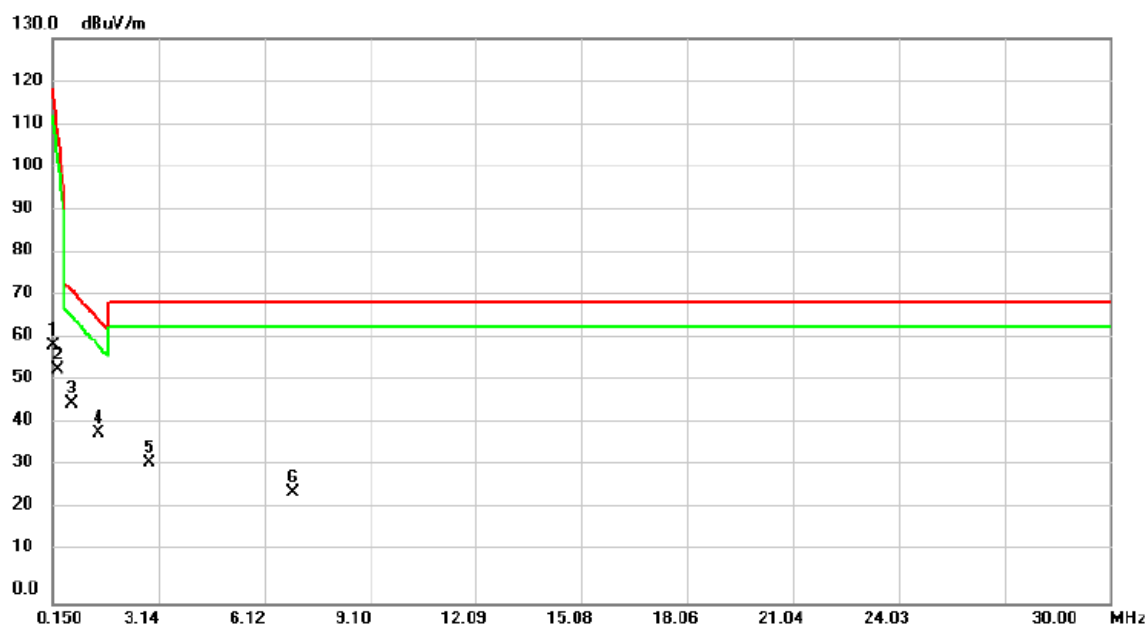
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0193	44.45	17.94	62.39	127.78	-65.39	peak	

Test Mode: UNII-1/ TX_Adapter: HON-KWANG / HK-XX24-A12

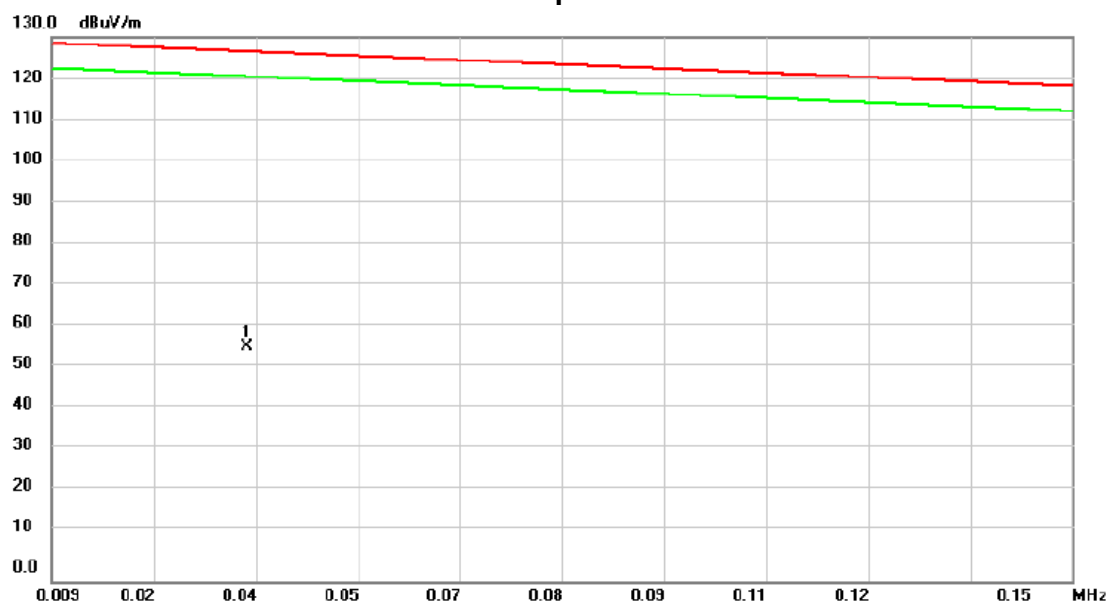
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
2		0.2993	41.85	11.80	53.65	107.57	-53.92	peak	
3	*	0.6873	34.17	11.87	46.04	72.04	-26.00	peak	
4		1.4334	27.49	11.80	39.29	65.39	-26.10	peak	
5		2.8664	21.25	11.16	32.41	69.54	-37.13	peak	
6		6.9260	14.29	11.36	25.65	69.54	-43.89	peak	

Test Mode: UNII-1/ TX_Adapter: AMIGO / AMS151-1202000F

Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0360	41.75	14.40	56.15	126.57	-70.42	peak	

Test Mode: UNII-1/ TX_Adapter: AMIGO / AMS151-1202000F

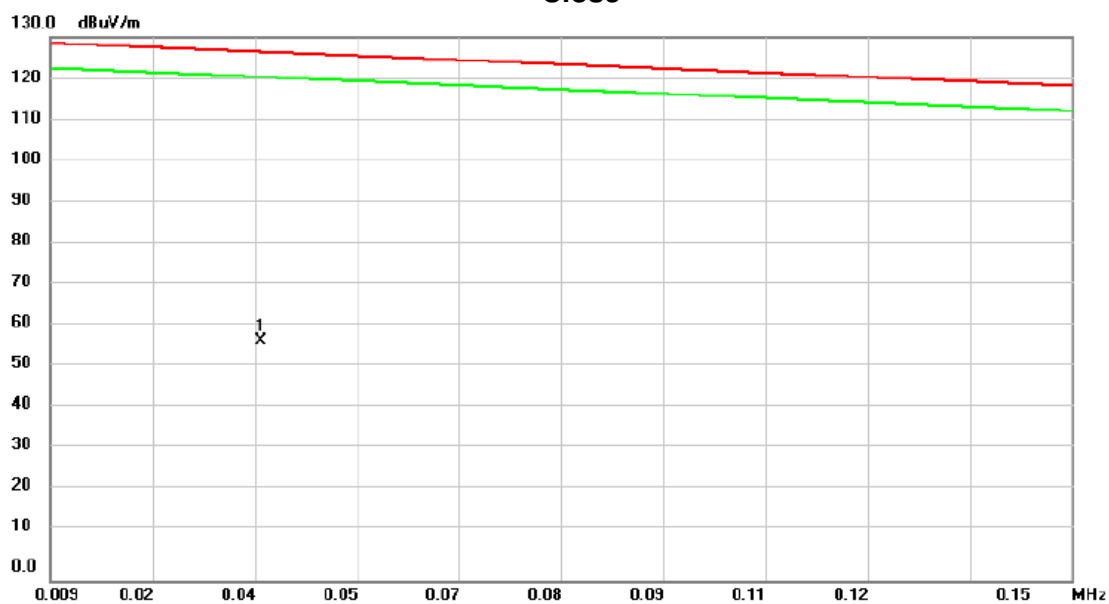
Open



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1500	47.93	12.03	59.96	118.34	-58.38	peak	
2		0.3291	40.93	11.80	52.73	105.41	-52.68	peak	
3	*	0.7470	33.04	11.90	44.94	71.51	-26.57	peak	
4		1.1350	28.52	11.94	40.46	68.05	-27.59	peak	
5		1.9410	23.39	11.58	34.97	69.54	-34.57	peak	
6		5.5230	15.90	11.39	27.29	69.54	-42.25	peak	

Test Mode: UNII-1/ TX_Adapter: AMIGO / AMS151-1202000F

Close



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0380	43.20	14.20	57.40	126.43	-69.03	peak	

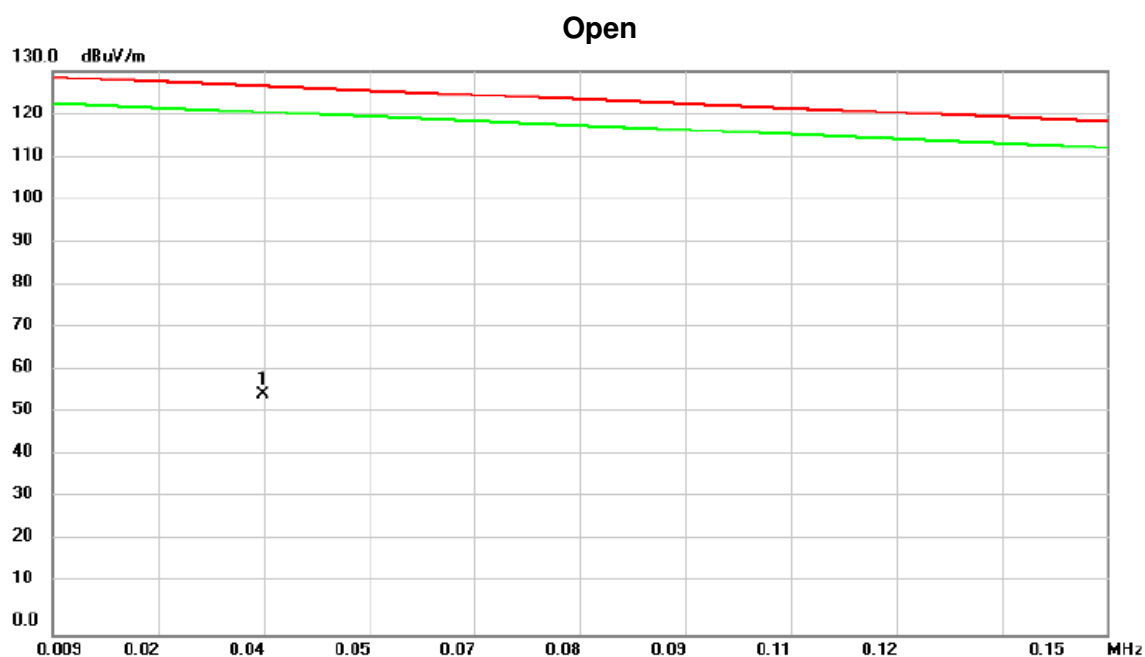
Test Mode: UNII-1/ TX_Adapter: AMIGO / AMS151-1202000F

Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
2		0.4485	37.06	11.80	48.86	96.80	-47.94	peak	
3	*	0.9261	31.48	11.97	43.45	69.91	-26.46	peak	
4		2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
5		4.6573	16.56	11.35	27.91	69.54	-41.63	peak	
6		7.4633	13.78	11.35	25.13	69.54	-44.41	peak	

Test Mode:	UNII-3/ TX_Adapter: HON-KWANG / HK-XX24-A12
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0371	41.15	14.29	55.44	126.49	-71.05	peak	

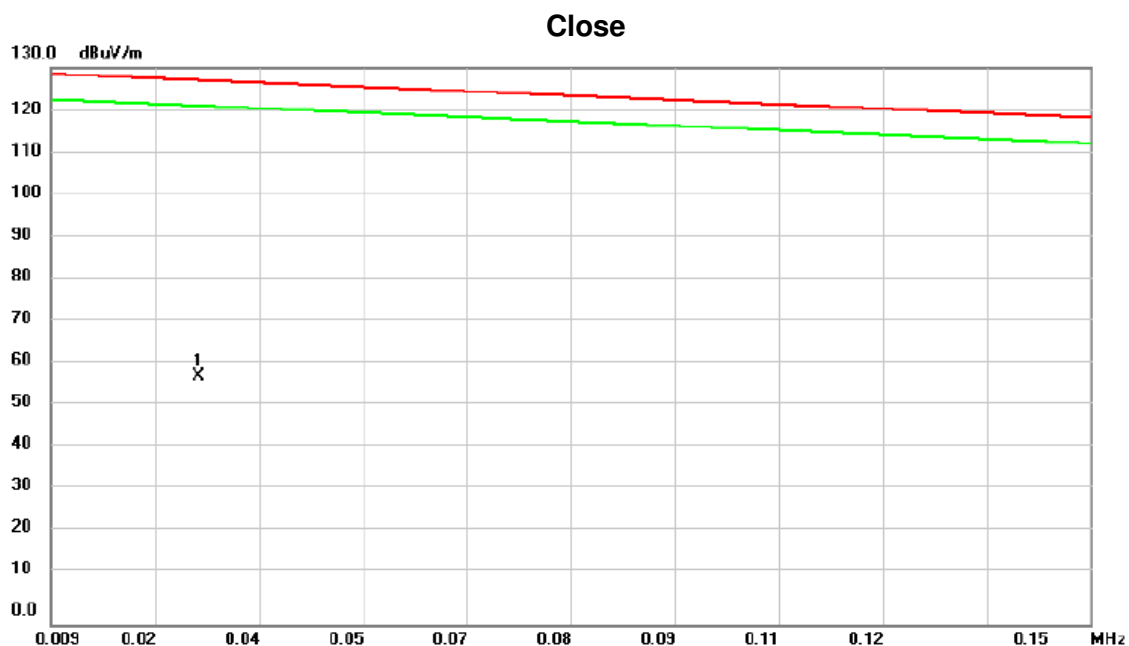
Test Mode: UNII-3/ TX_Adapter: HON-KWANG / HK-XX24-A12

Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.93	12.03	59.96	118.34	-58.38	peak	
2		0.4187	38.46	11.80	50.26	98.95	-48.69	peak	
3	*	0.6873	33.26	11.87	45.13	72.04	-26.91	peak	
4		1.1650	28.03	11.93	39.96	67.78	-27.82	peak	
5		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
6		8.8660	12.13	11.32	23.45	69.54	-46.09	peak	

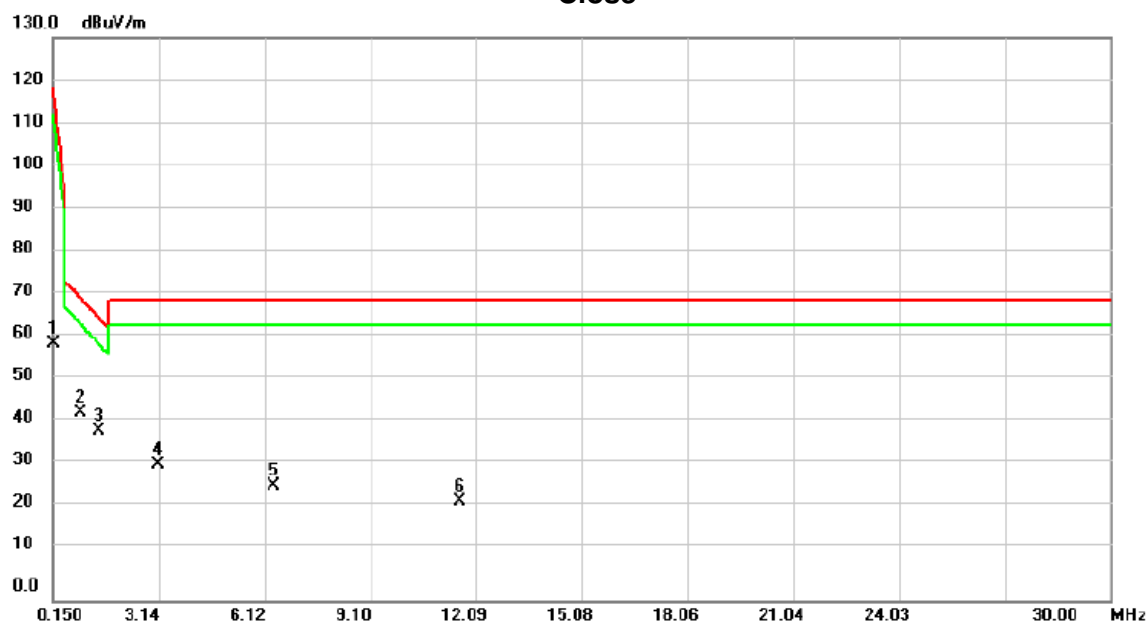
Test Mode:	UNII-3/ TX_Adapter: HON-KWANG / HK-XX24-A12
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0290	42.82	15.27	58.09	127.08	-68.99	peak	

Test Mode: UNII-3/ TX_Adapter: HON-KWANG / HK-XX24-A12

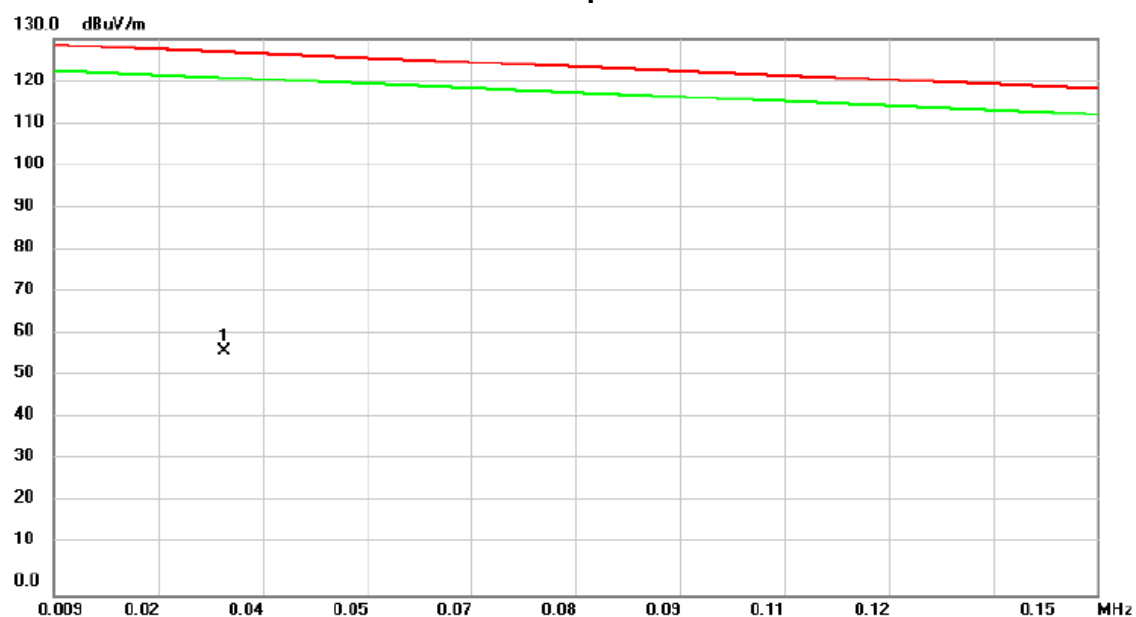
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
2		0.9261	31.48	11.97	43.45	69.91	-26.46	peak	
3	*	1.4334	27.49	11.80	39.29	65.39	-26.10	peak	
4		3.1051	20.33	11.12	31.45	69.54	-38.09	peak	
5		6.3887	15.28	11.37	26.65	69.54	-42.89	peak	
6		11.6423	11.79	11.25	23.04	69.54	-46.50	peak	

Test Mode: UNII-3/ TX_Adapter: AMIGO / AMS151-1202000F

Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	*	0.0320	42.16	14.80	56.96	126.86	-69.90	peak

Test Mode: UNII-3/ TX_Adapter: AMIGO / AMS151-120200F

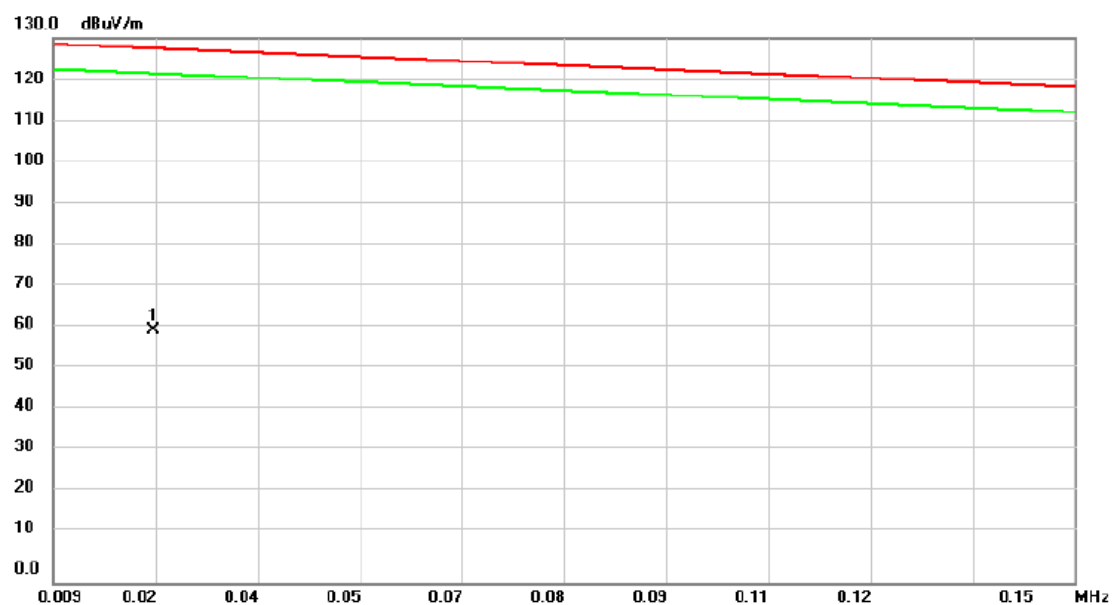
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.93	12.03	59.96	118.34	-58.38	peak	
2	*	0.5675	35.40	11.83	47.23	73.11	-25.88	peak	
3		1.1350	28.52	11.94	40.46	68.05	-27.59	peak	
4		2.2096	22.66	11.46	34.12	69.54	-35.42	peak	
5		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
6		7.9706	13.82	11.34	25.16	69.54	-44.38	peak	

Test Mode: UNII-3/ TX_Adapter: AMIGO / AMS151-120200F

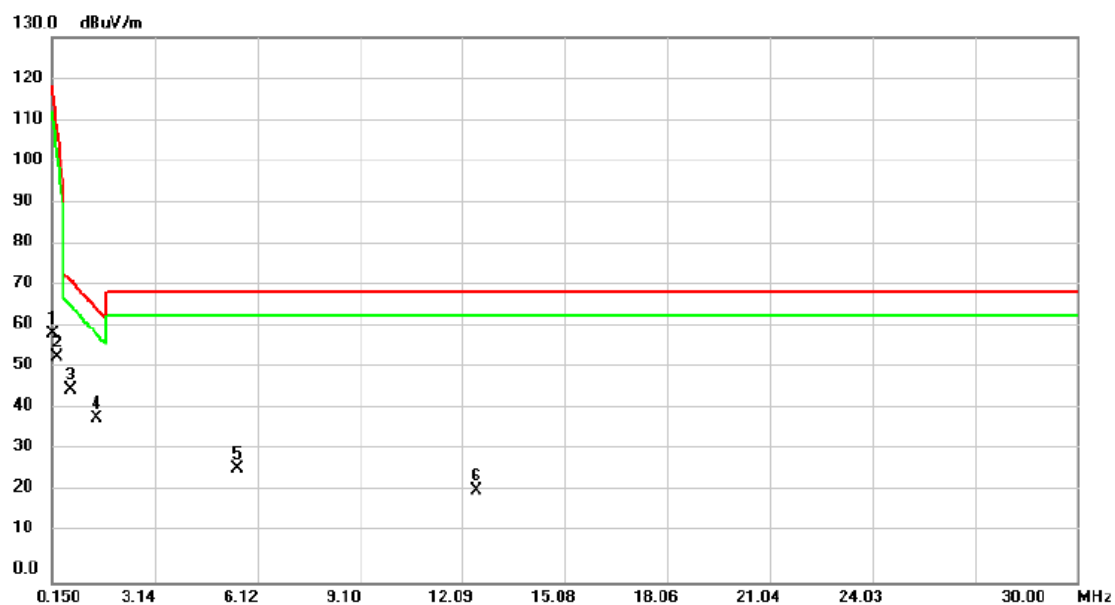
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0228	43.30	16.98	60.28	127.52	-67.24	peak	

Test Mode: UNII-3/ TX_Adapter: AMIGO / AMS151-1202000F

Close

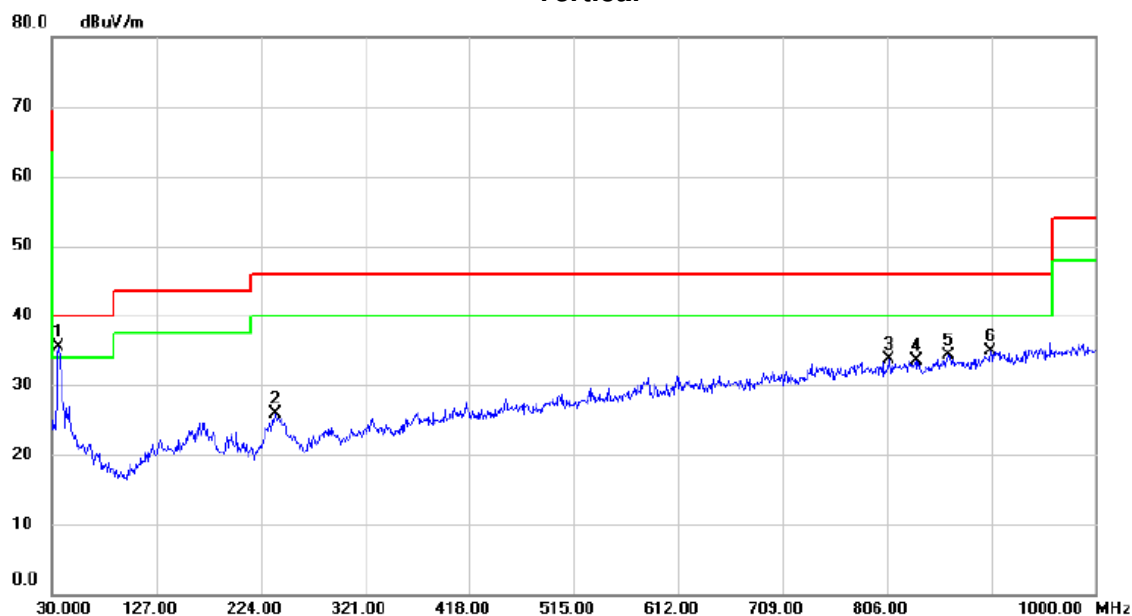


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
2		0.2993	41.85	11.80	53.65	107.57	-53.92	peak	
3	*	0.6873	34.17	11.87	46.04	72.04	-26.00	peak	
4		1.4334	27.49	11.80	39.29	65.39	-26.10	peak	
5		5.5530	15.80	11.39	27.19	69.54	-42.35	peak	
6		12.5076	10.83	11.22	22.05	69.54	-47.49	peak	

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

Test Mode:	UNII-1/ TX_Adapter: HON-KWANG / HK-XX24-A12
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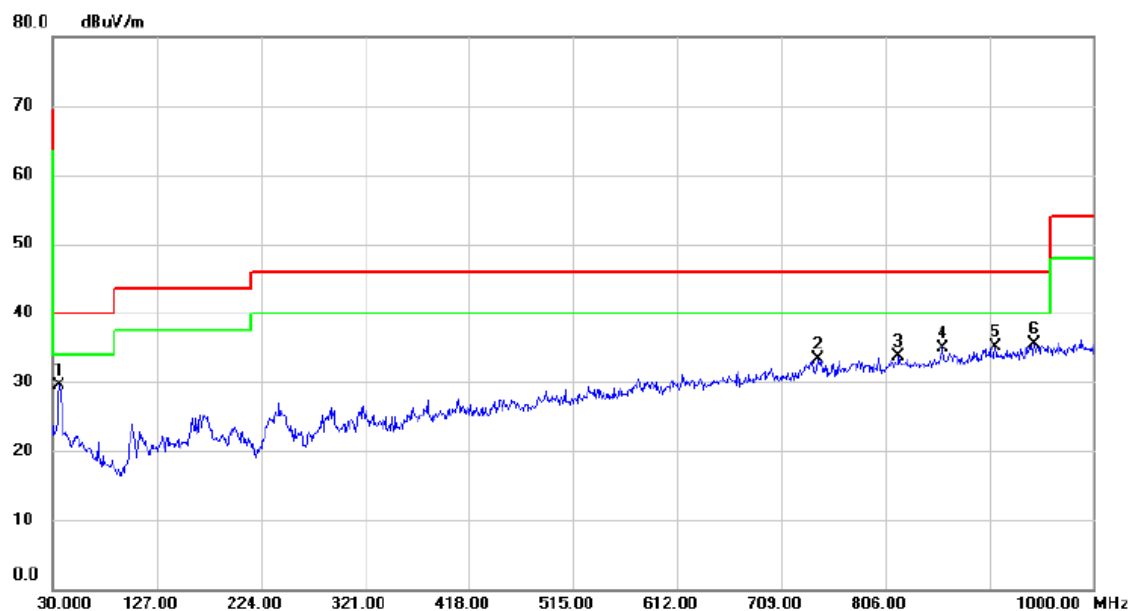
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	35.8200	44.38	-8.92	35.46	40.00	-4.54	peak	
2		237.5800	35.41	-9.60	25.81	46.00	-20.19	peak	
3		807.9400	30.77	2.99	33.76	46.00	-12.24	peak	
4		833.1600	30.06	3.36	33.42	46.00	-12.58	peak	
5		863.2300	30.51	3.86	34.37	46.00	-11.63	peak	
6		902.0300	30.34	4.64	34.98	46.00	-11.02	peak	

Test Mode: UNII-1/ TX_Adapter: HON-KWANG / HK-XX24-A12

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		35.8200	38.33	-8.92	29.41	40.00	-10.59	peak	
2		742.9500	31.05	2.19	33.24	46.00	-12.76	peak	
3		818.6100	30.59	3.15	33.74	46.00	-12.26	peak	
4		859.3500	31.08	3.78	34.86	46.00	-11.14	peak	
5		908.8200	30.35	4.77	35.12	46.00	-10.88	peak	
6	*	944.7100	30.06	5.39	35.45	46.00	-10.55	peak	

Test Mode: UNII-1/ TX_Adapter: AMIGO / AMS151-1202000F

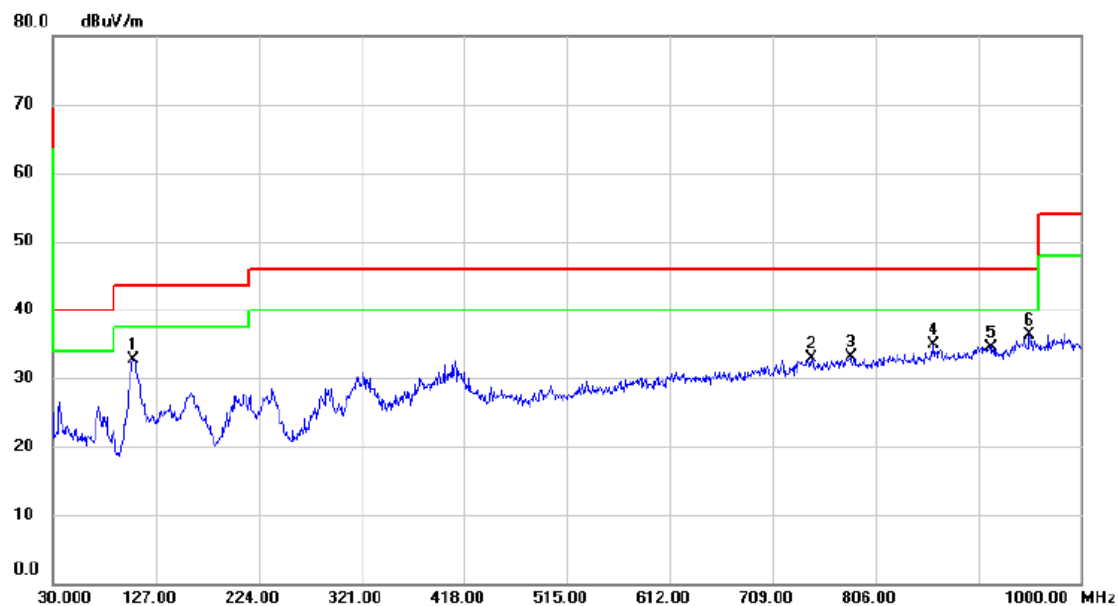
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	35.8200	45.98	-8.92	37.06	40.00	-2.94	peak	
2		74.6200	40.08	-11.30	28.78	40.00	-11.22	peak	
3		827.3400	30.99	3.27	34.26	46.00	-11.74	peak	
4		850.6200	30.36	3.61	33.97	46.00	-12.03	peak	
5		913.6700	30.08	4.85	34.93	46.00	-11.07	peak	
6		943.7400	30.17	5.37	35.54	46.00	-10.46	peak	

Test Mode: UNII-1/ TX_Adapter: AMIGO / AMS151-1202000F

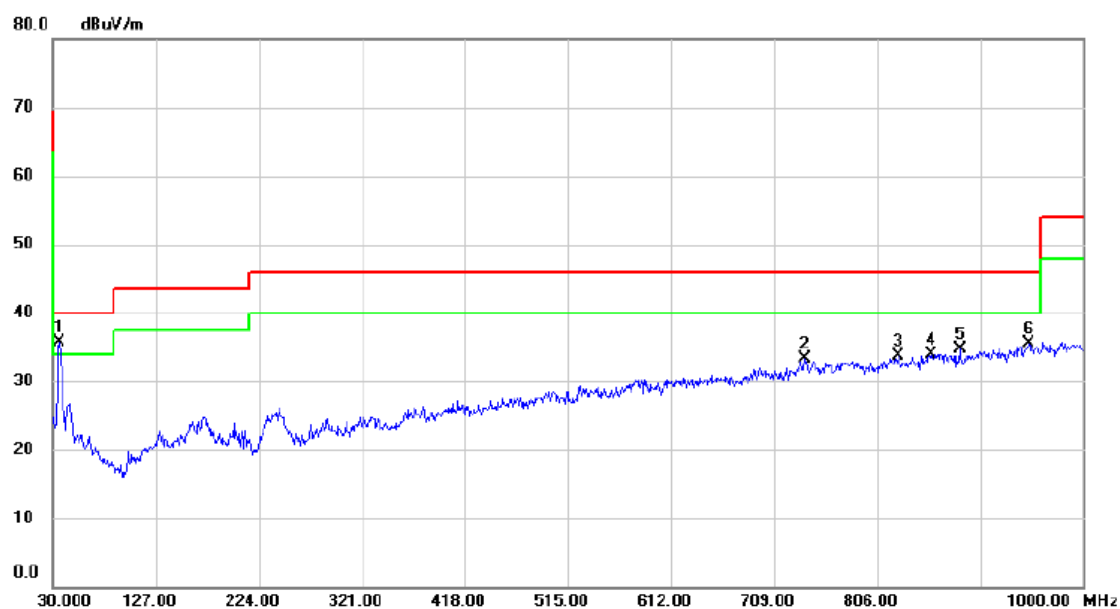
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		105.6600	44.39	-11.77	32.62	43.50	-10.88	peak	
2		745.8600	30.68	2.24	32.92	46.00	-13.08	peak	
3		782.7200	30.44	2.70	33.14	46.00	-12.86	peak	
4		861.2900	31.17	3.82	34.99	46.00	-11.01	peak	
5		914.6400	29.73	4.87	34.60	46.00	-11.40	peak	
6	*	951.5000	30.78	5.51	36.29	46.00	-9.71	peak	

Test Mode: UNII-3/ TX_Adapter: HON-KWANG / HK-XX24-A12

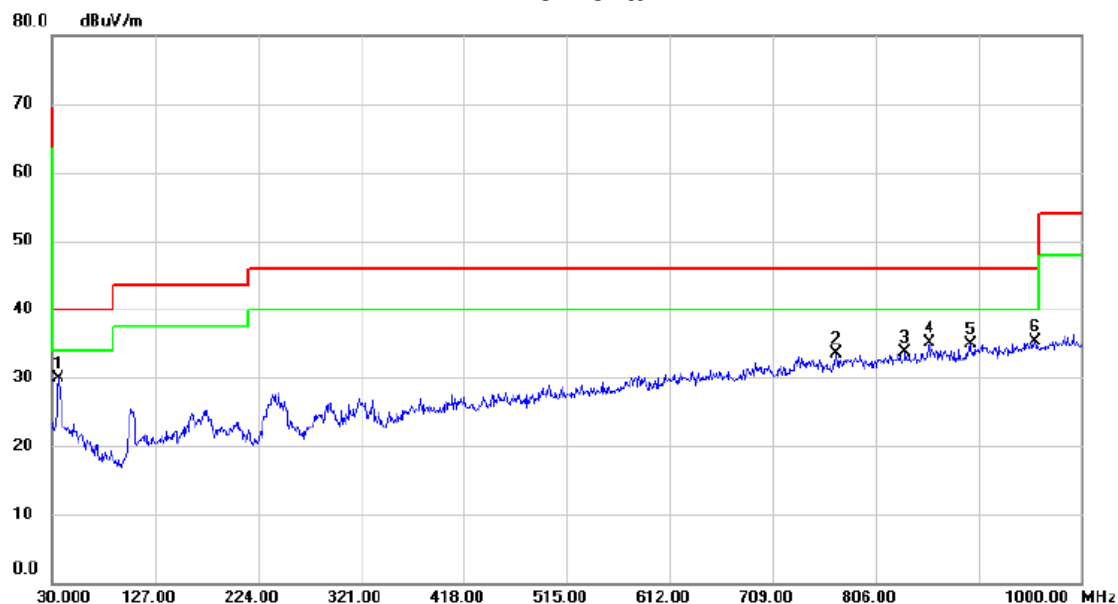
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	35.8200	44.69	-8.92	35.77	40.00	-4.23	peak	
2		738.1000	31.18	2.09	33.27	46.00	-12.73	peak	
3		825.4000	30.39	3.24	33.63	46.00	-12.37	peak	
4		856.4400	30.21	3.73	33.94	46.00	-12.06	peak	
5		883.6000	30.40	4.28	34.68	46.00	-11.32	peak	
6		948.5900	30.05	5.45	35.50	46.00	-10.50	peak	

Test Mode: UNII-3/ TX_Adapter: HON-KWANG / HK-XX24-A12

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	35.8200	38.83	-8.92	29.91	40.00	-10.09	peak	
2		769.1400	31.01	2.54	33.55	46.00	-12.45	peak	
3		834.1300	30.34	3.37	33.71	46.00	-12.29	peak	
4		856.4400	31.30	3.73	35.03	46.00	-10.97	peak	
5		895.2400	30.31	4.51	34.82	46.00	-11.18	peak	
6		956.3500	29.81	5.57	35.38	46.00	-10.62	peak	

Test Mode: UNII-3/ TX_Adapter: AMIGO / AMS151-1202000F

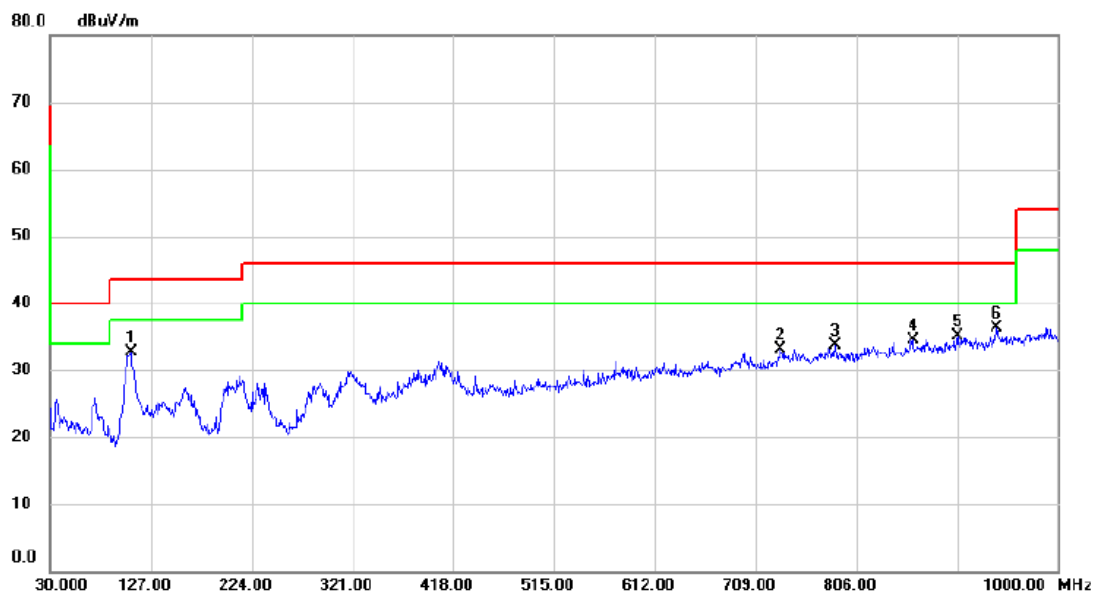
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	35.8200	44.77	-8.92	35.85	40.00	-4.15	peak	
2		74.6200	39.49	-11.30	28.19	40.00	-11.81	peak	
3		868.0800	30.38	3.97	34.35	46.00	-11.65	peak	
4		901.0600	30.20	4.62	34.82	46.00	-11.18	peak	
5		921.4300	30.16	4.99	35.15	46.00	-10.85	peak	
6		941.8000	30.38	5.34	35.72	46.00	-10.28	peak	

Test Mode: UNII-3/ TX_Adapter: AMIGO / AMS151-1202000F

Horizontal



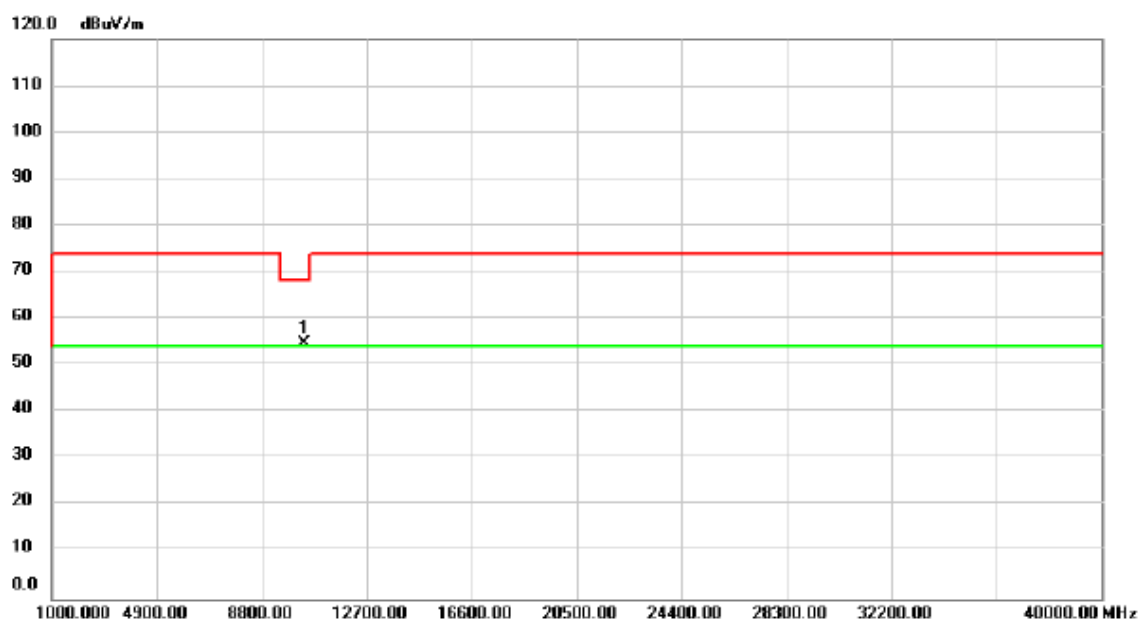
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		107.6000	44.16	-11.46	32.70	43.50	-10.80	peak	
2		733.2500	31.19	1.99	33.18	46.00	-12.82	peak	
3		785.6300	30.98	2.72	33.70	46.00	-12.30	peak	
4		860.3200	30.78	3.81	34.59	46.00	-11.41	peak	
5		903.0000	30.34	4.67	35.01	46.00	-10.99	peak	
6	*	940.8300	31.01	5.33	36.34	46.00	-9.66	peak	

ATTACHMENT D - RADIATED EMISSION (1GHZ~10TH HARMONIC)

Non-Beamforming

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

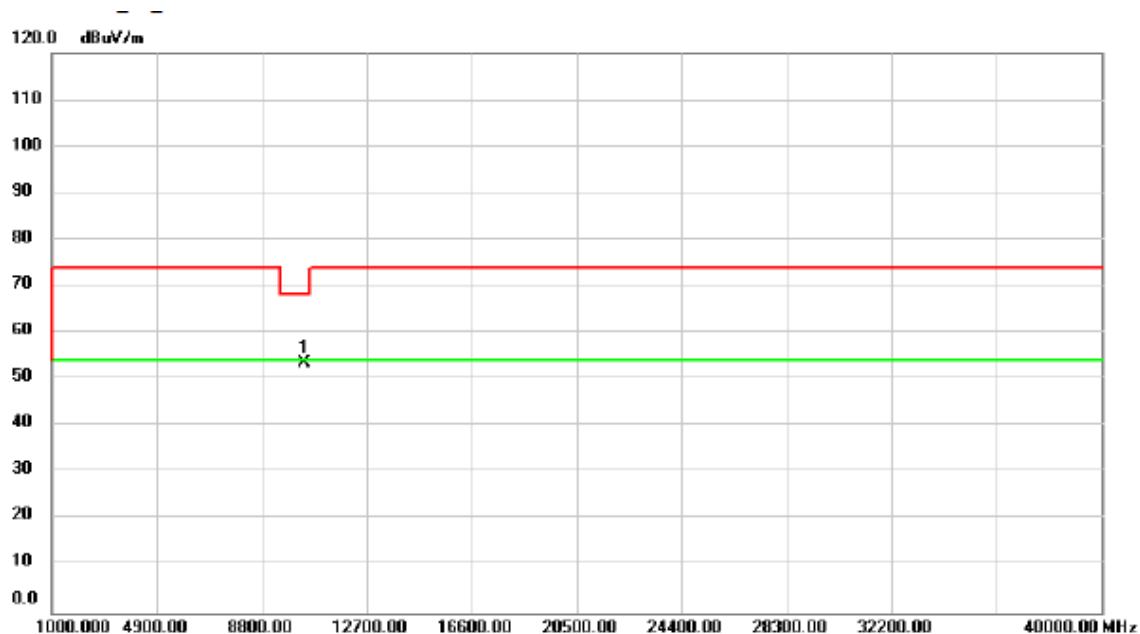
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	15.26	39.43	54.69	68.20	-13.51	peak	

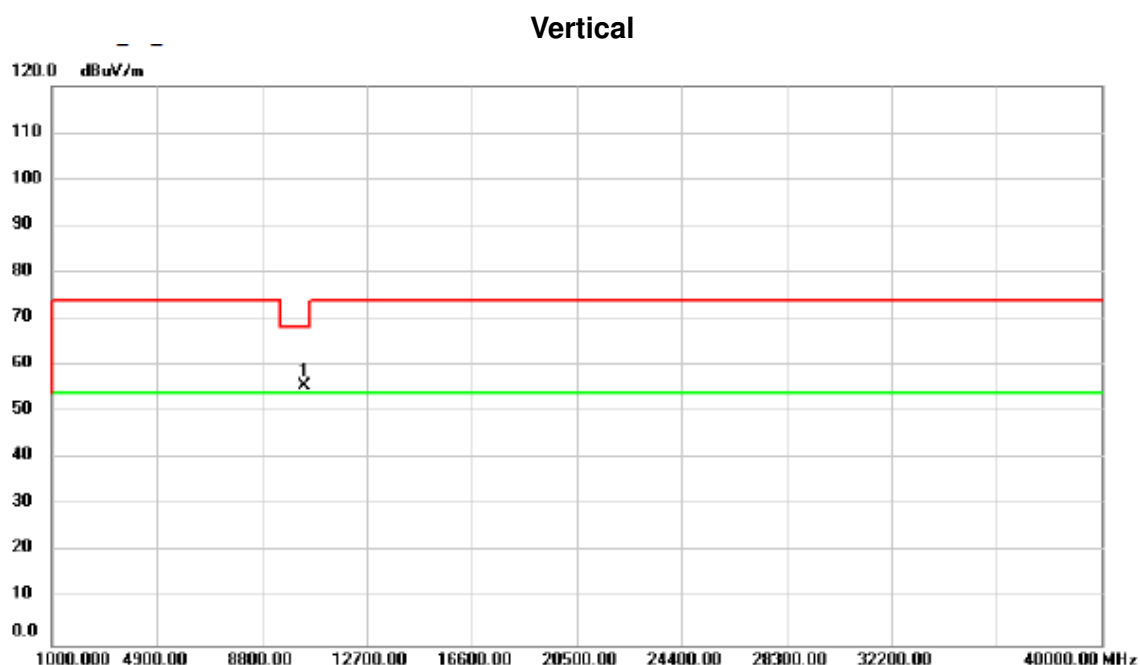
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

Horizontal



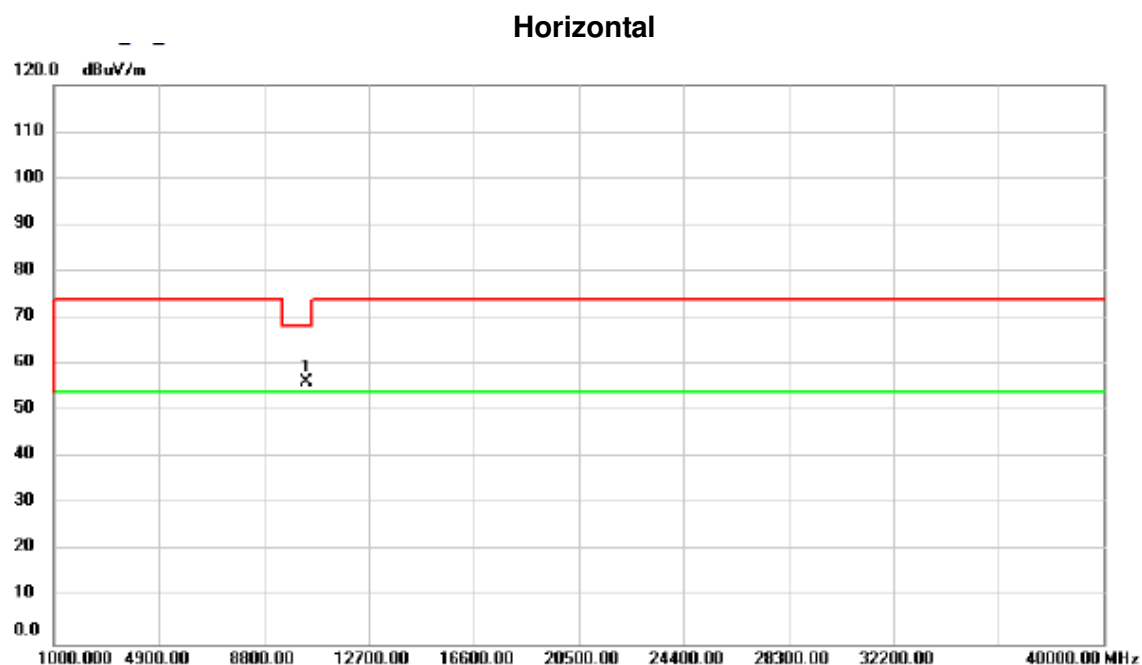
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	14.00	39.43	53.43	68.20	-14.77	peak	

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



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	16.11	39.48	55.59	68.20	-12.61	peak	

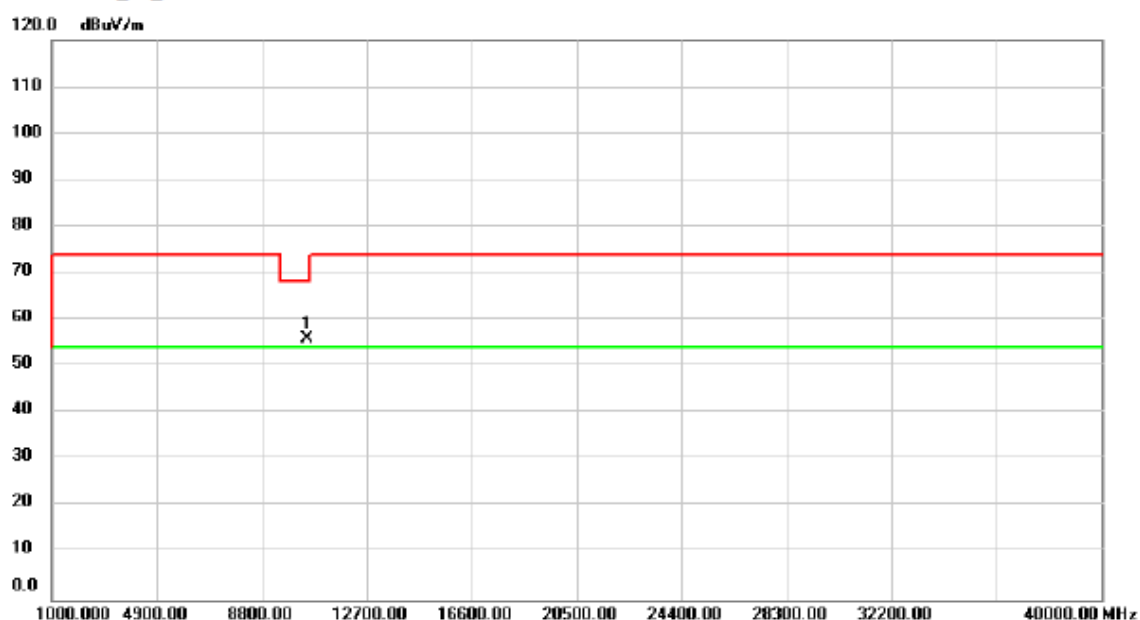
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	16.63	39.48	56.11	68.20	-12.09	peak	

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

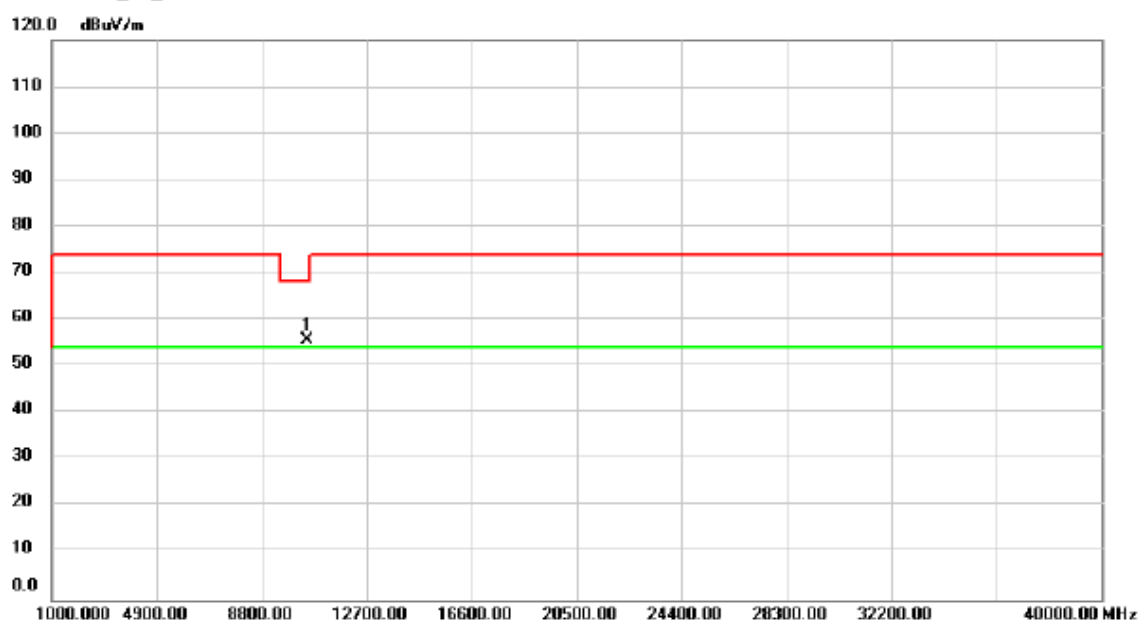
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10480.00	16.26	39.58	55.84	68.20	-12.36	peak	

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

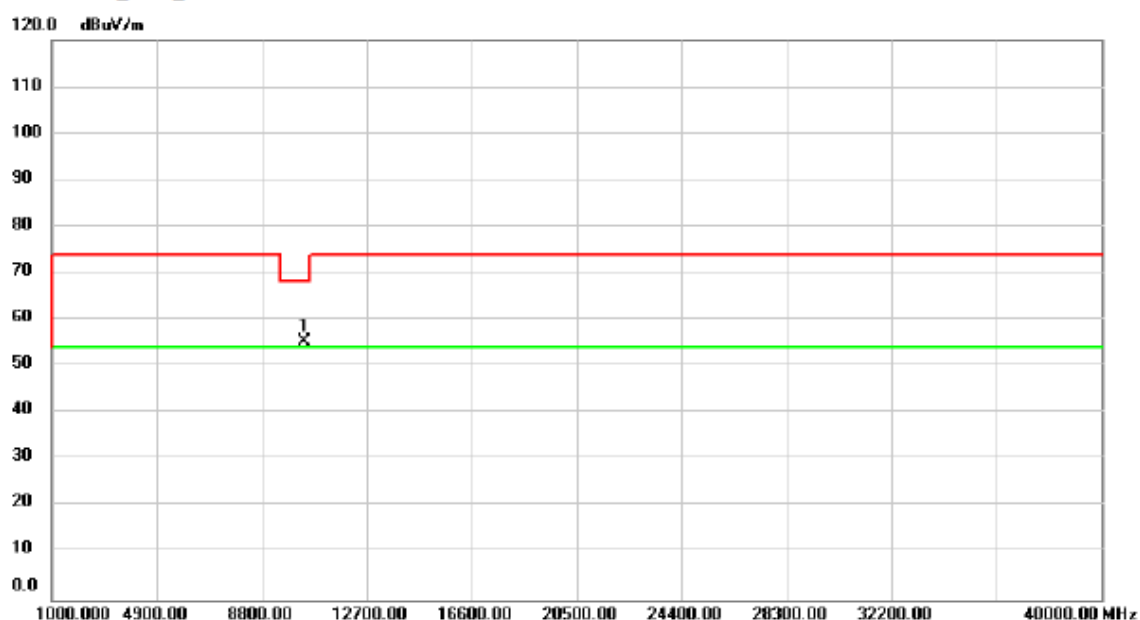
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	16.03	39.58	55.61	68.20	-12.59	peak	

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

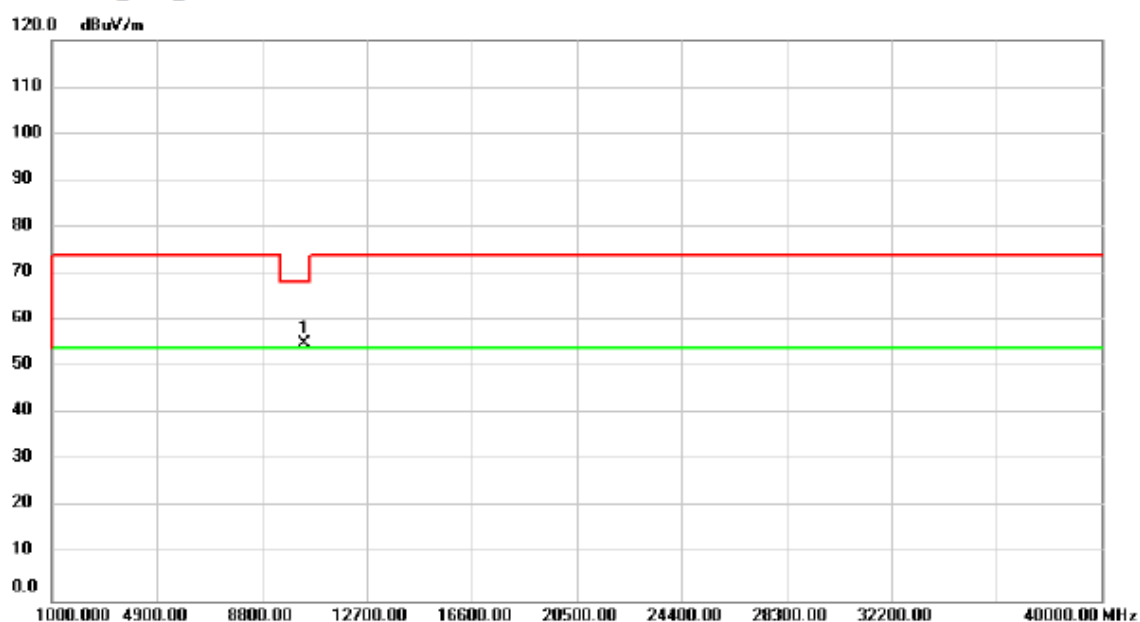
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10360.00	16.02	39.43	55.45	68.20	-12.75	peak	

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

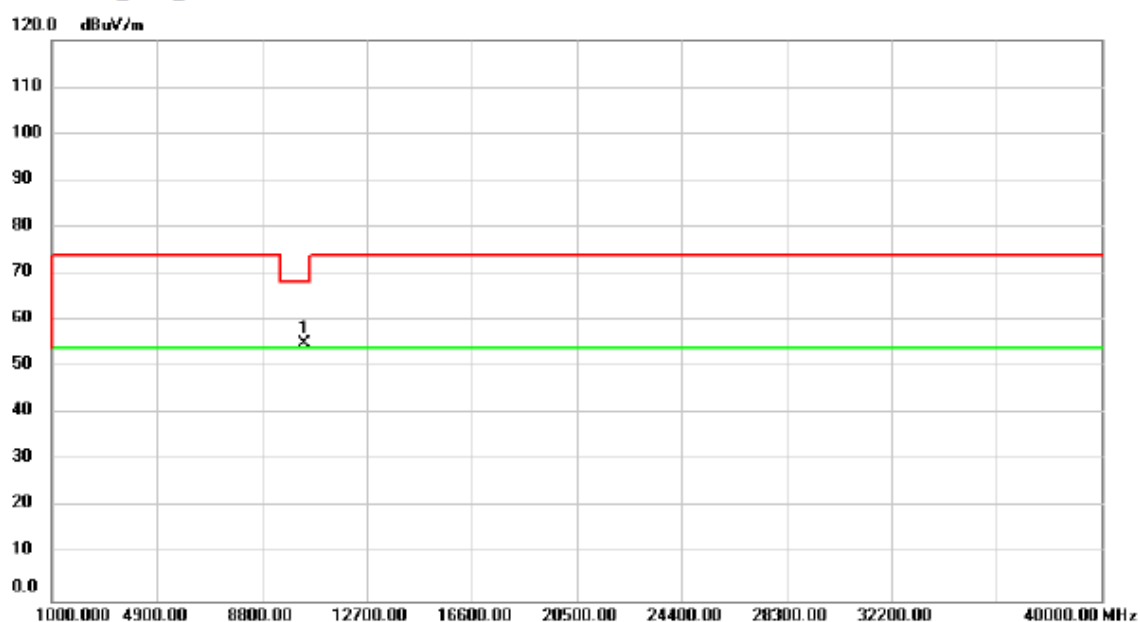
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10360.00	15.62	39.43	55.05	68.20	-13.15	peak	

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

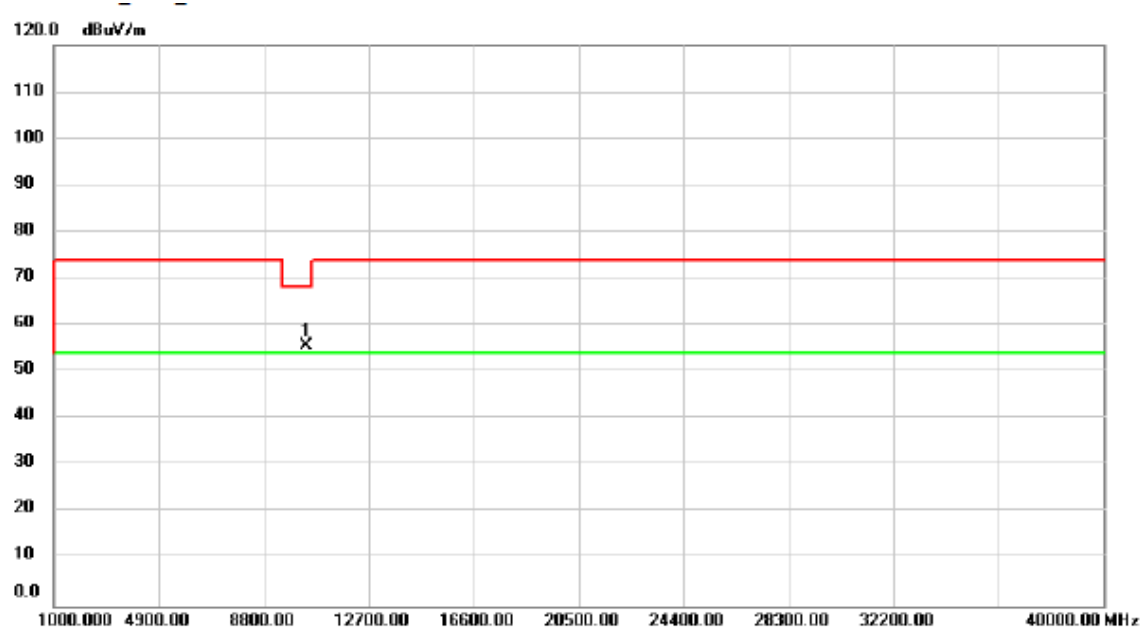
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10400.00	15.43	39.48	54.91	68.20	-13.29	peak	

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

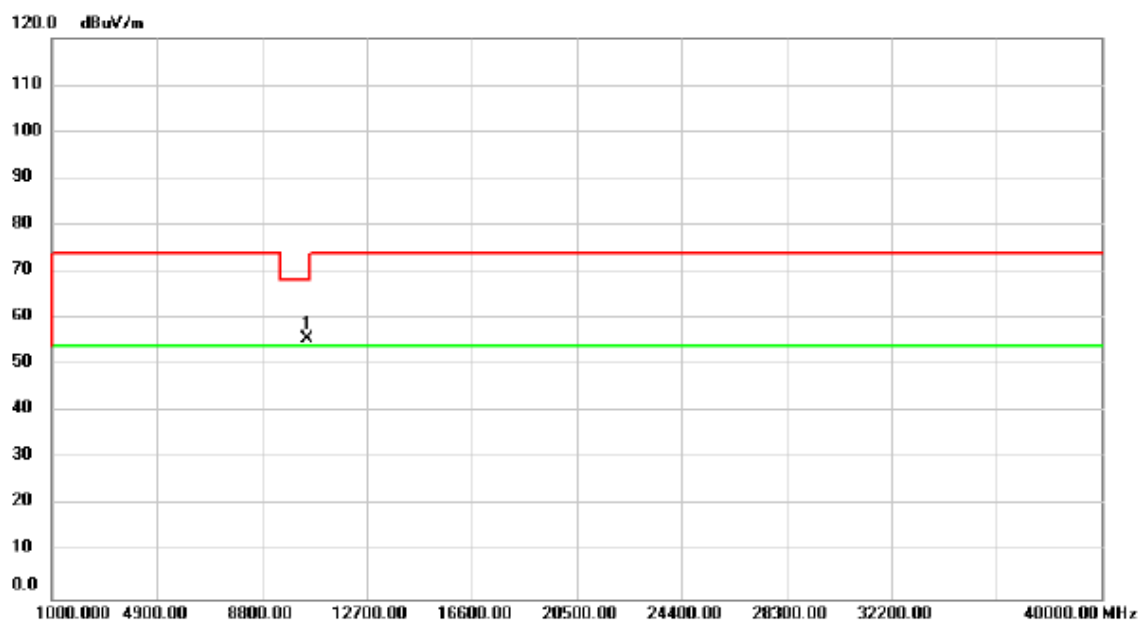
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	16.03	39.48	55.51	68.20	-12.69	peak	

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

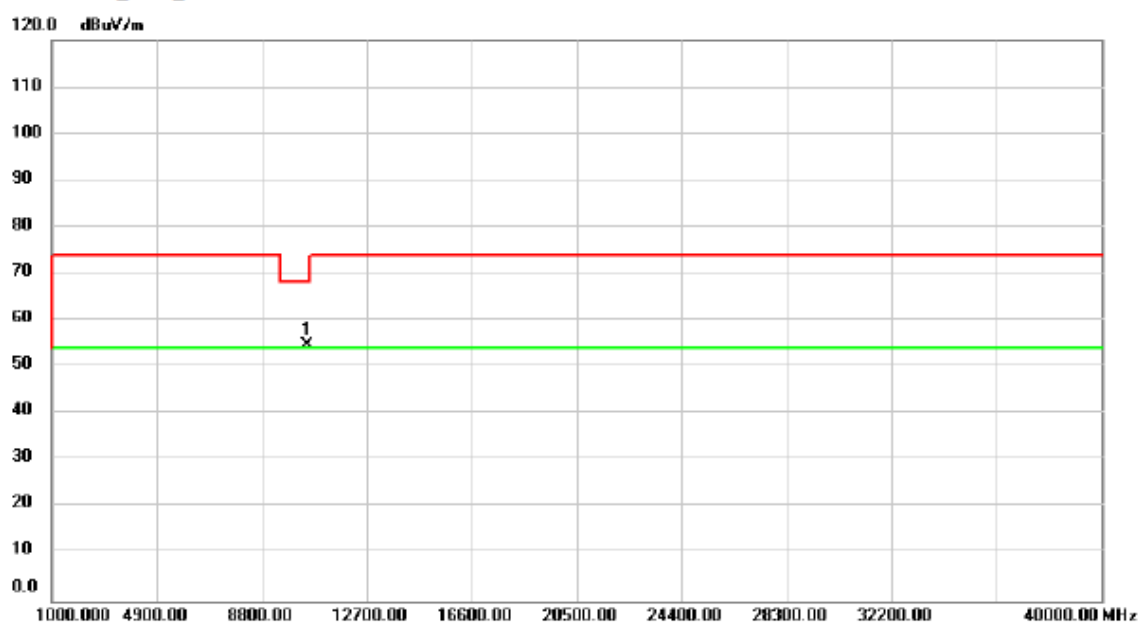
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.00	16.04	39.58	55.62	68.20	-12.58	peak	

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

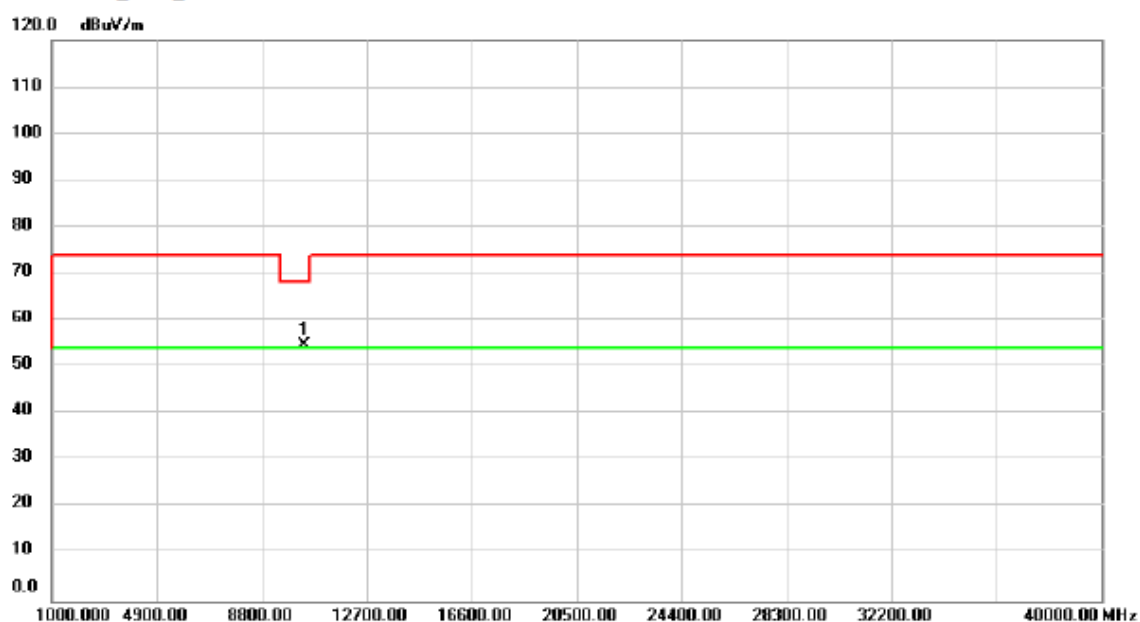
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10480.00	15.26	39.58	54.84	68.20	-13.36	peak	

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

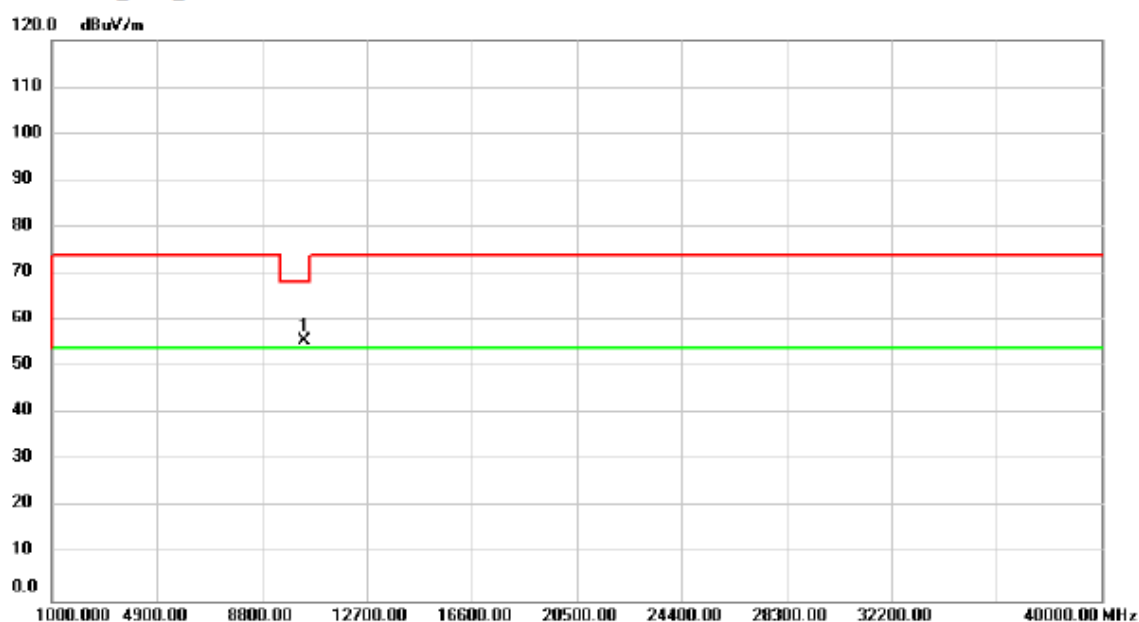
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	15.42	39.46	54.88	68.20	-13.32	peak	

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

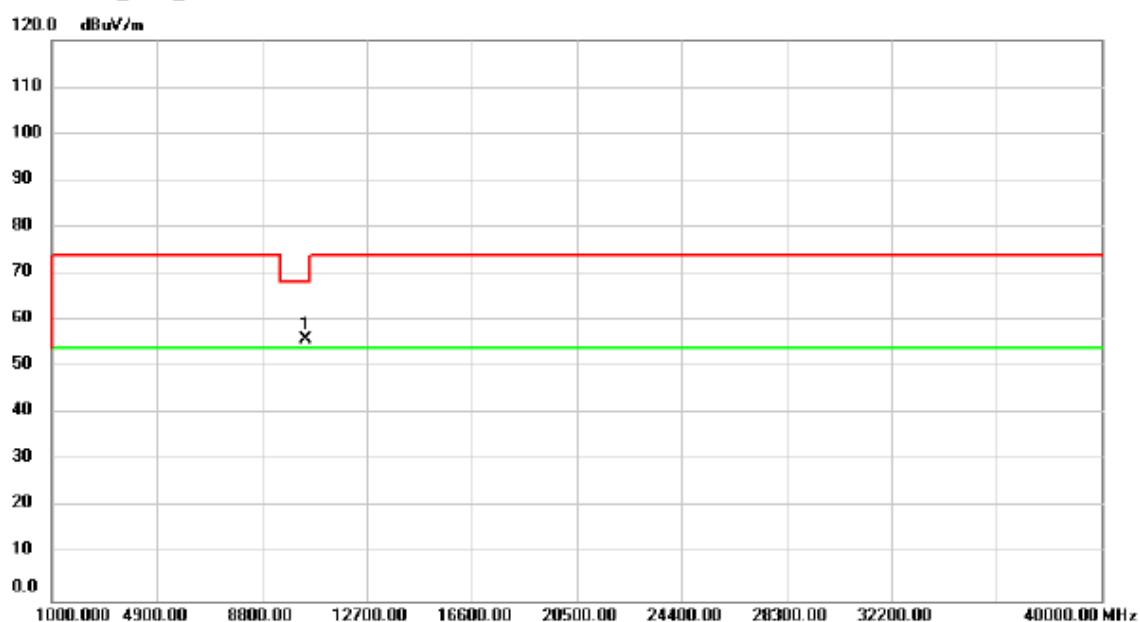
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10380.00	16.07	39.46	55.53	68.20	-12.67	peak	

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

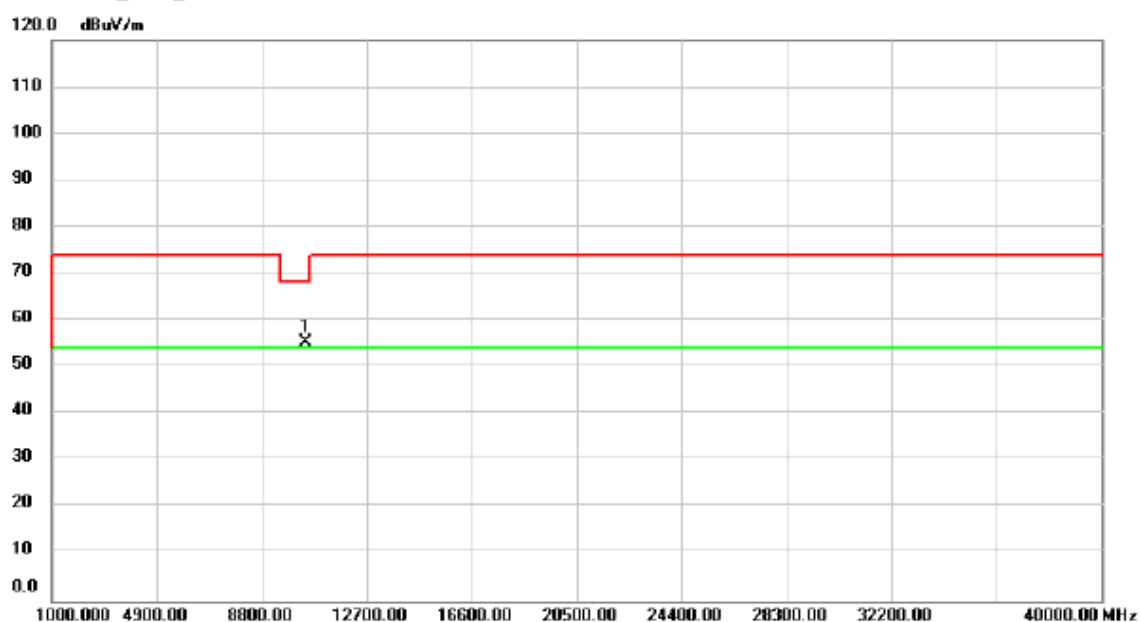
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10460.00	16.42	39.55	55.97	68.20	-12.23	peak	

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

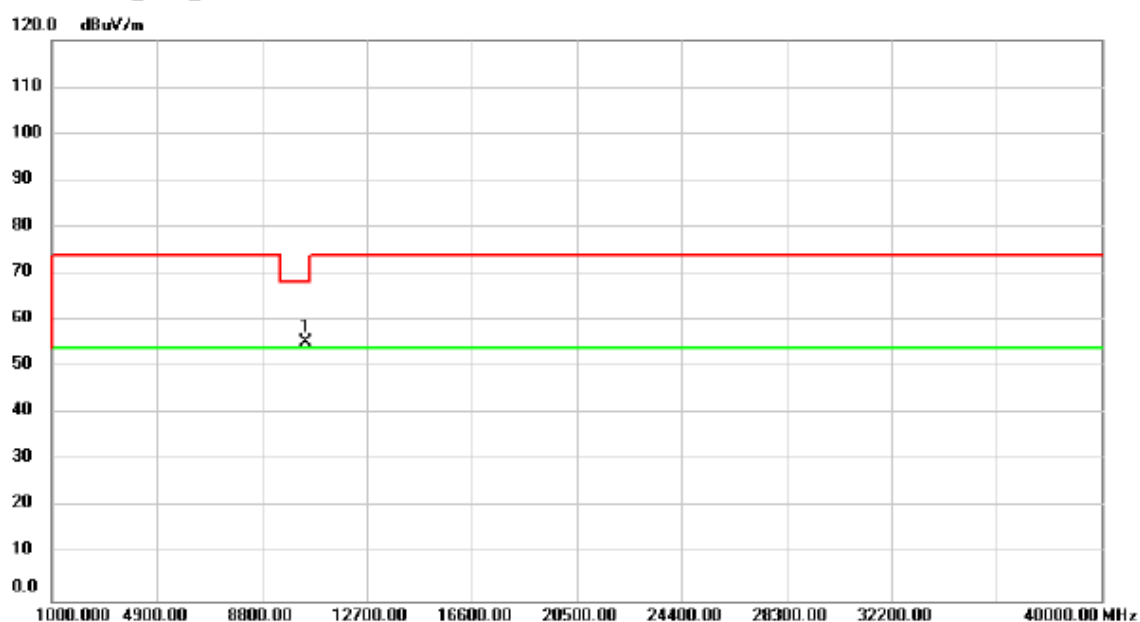
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10460.00	15.88	39.55	55.43	68.20	-12.77	peak	

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

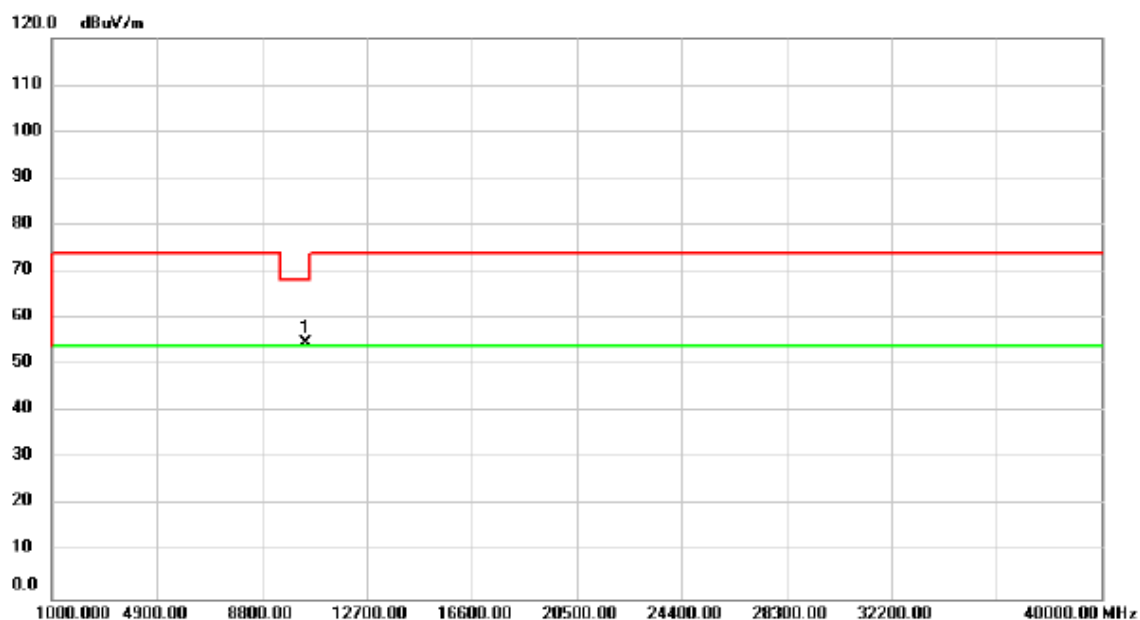
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10420.00	15.84	39.50	55.34	68.20	-12.86	peak	

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

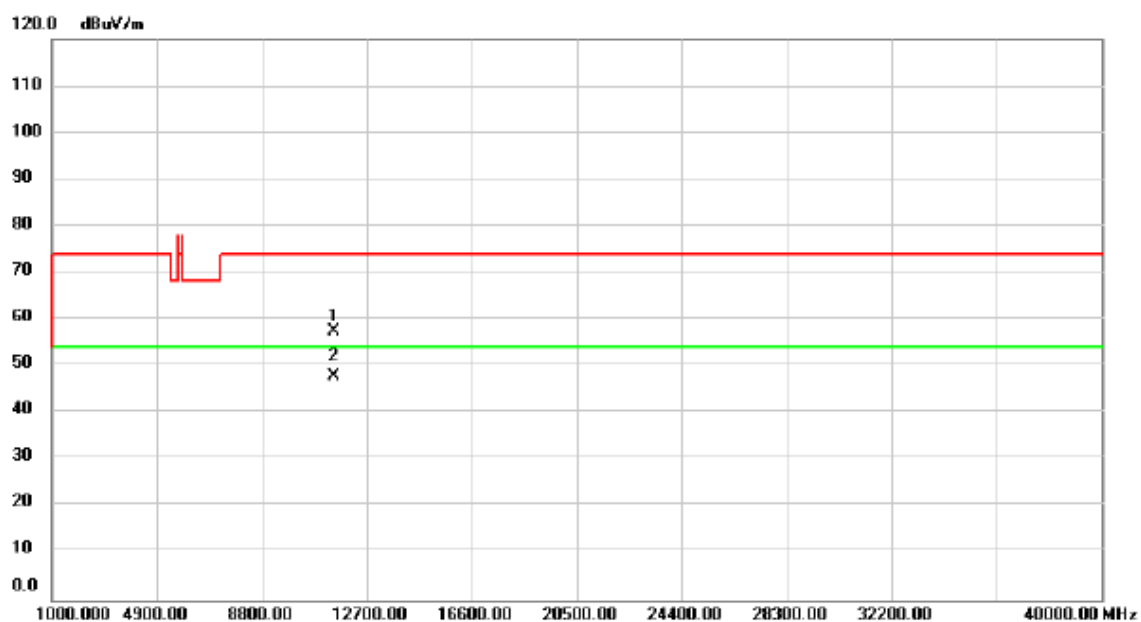
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	15.20	39.50	54.70	68.20	-13.50	peak	

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

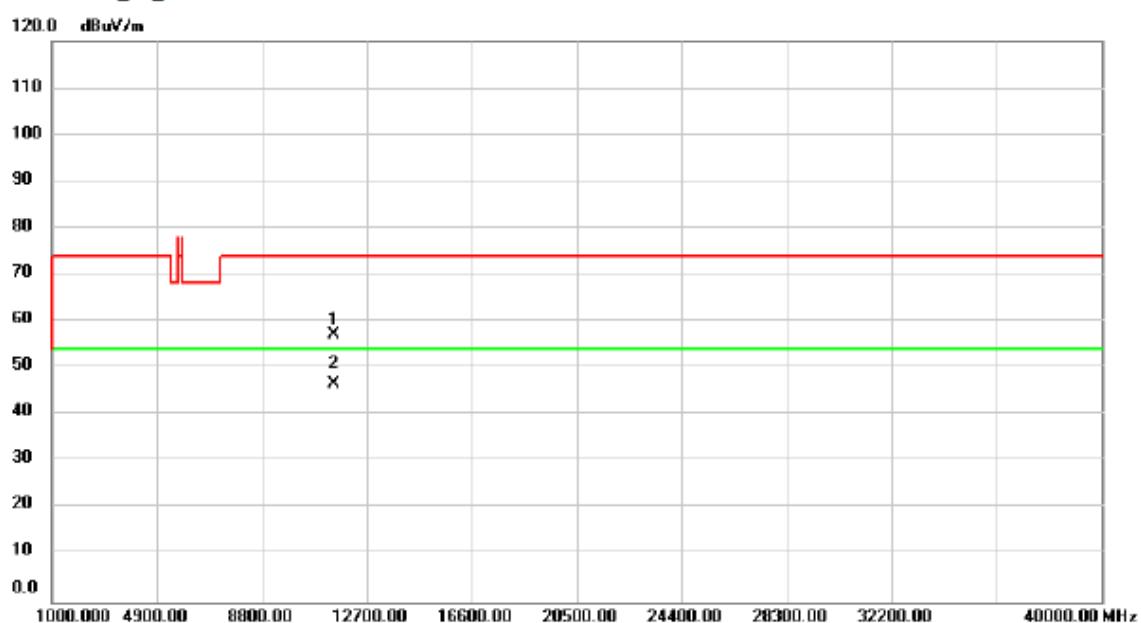
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11490.00	17.15	40.20	57.35	74.00	-16.65	peak	
2	*	11490.00	7.68	40.20	47.88	54.00	-6.12	AVG	

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

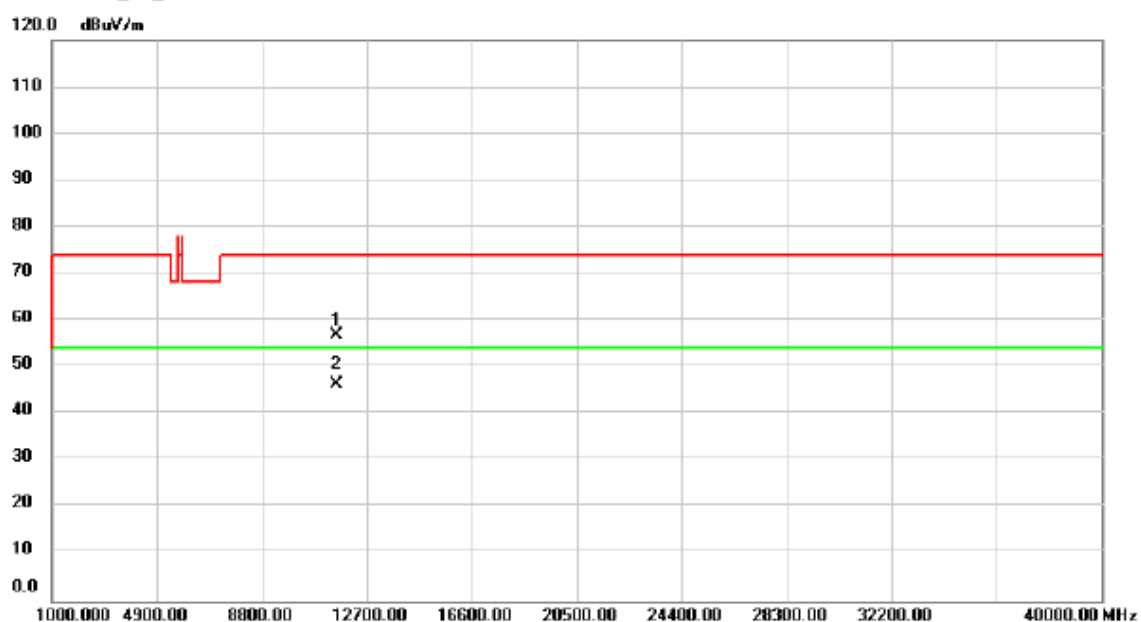
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11490.00	16.81	40.20	57.01	74.00	-16.99	peak	
2	*	11490.00	6.34	40.20	46.54	54.00	-7.46	AVG	

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

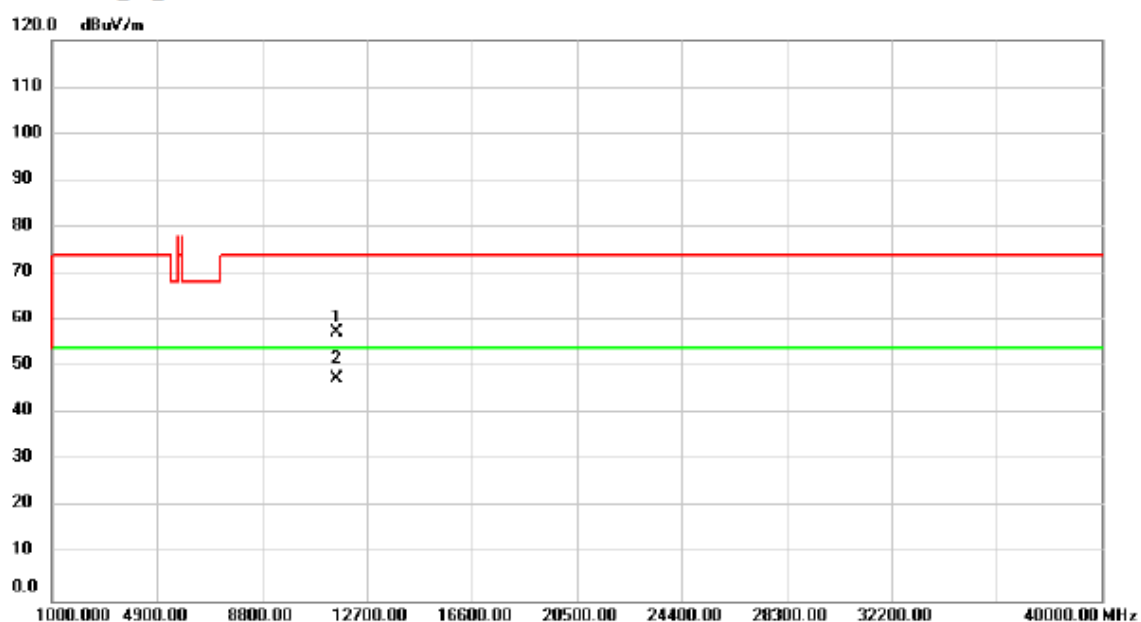
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	16.93	40.05	56.98	74.00	-17.02	peak	
2	*	11570.00	6.36	40.05	46.41	54.00	-7.59	AVG	

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

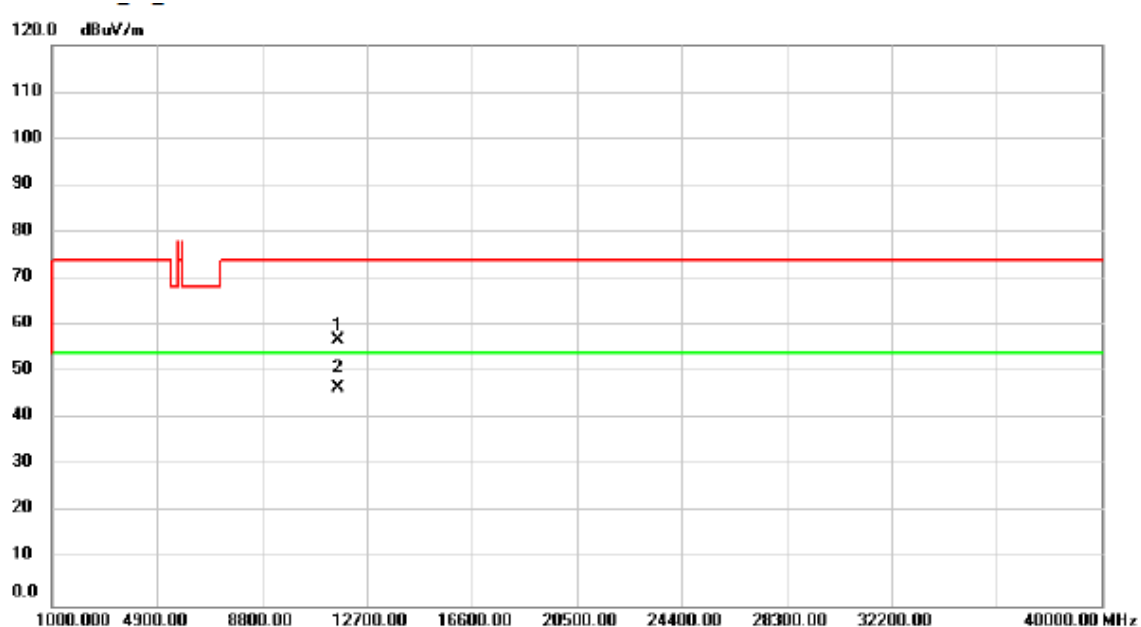
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	17.31	40.05	57.36	74.00	-16.64	peak	
2	*	11570.00	7.41	40.05	47.46	54.00	-6.54	AVG	

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

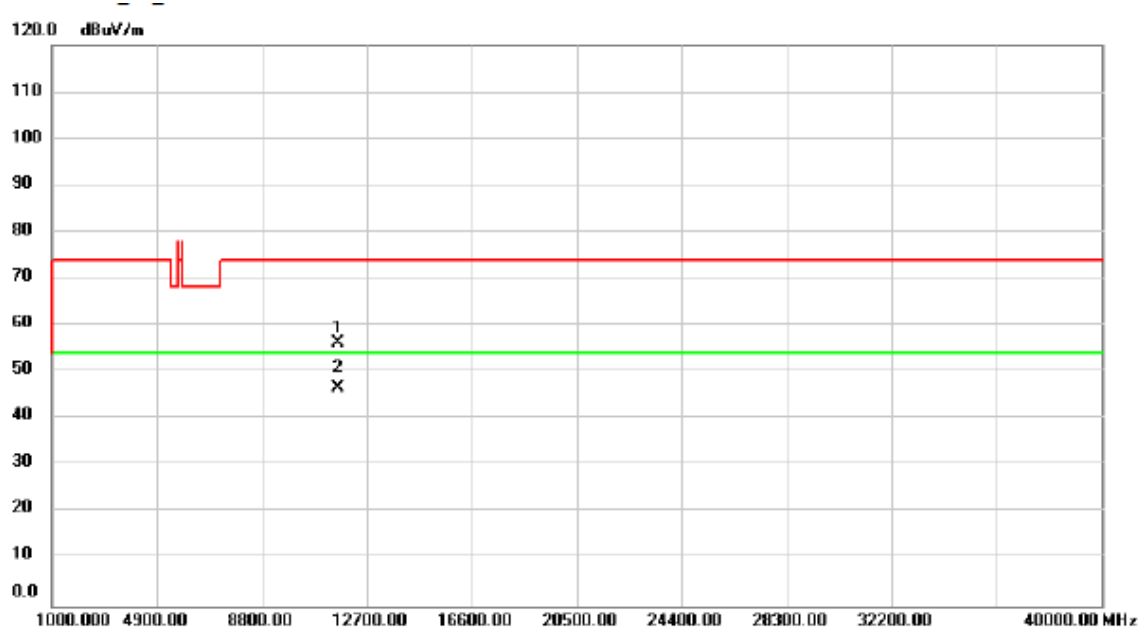
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	16.98	39.87	56.85	74.00	-17.15	peak	
2	*	11650.00	6.65	39.87	46.52	54.00	-7.48	AVG	

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

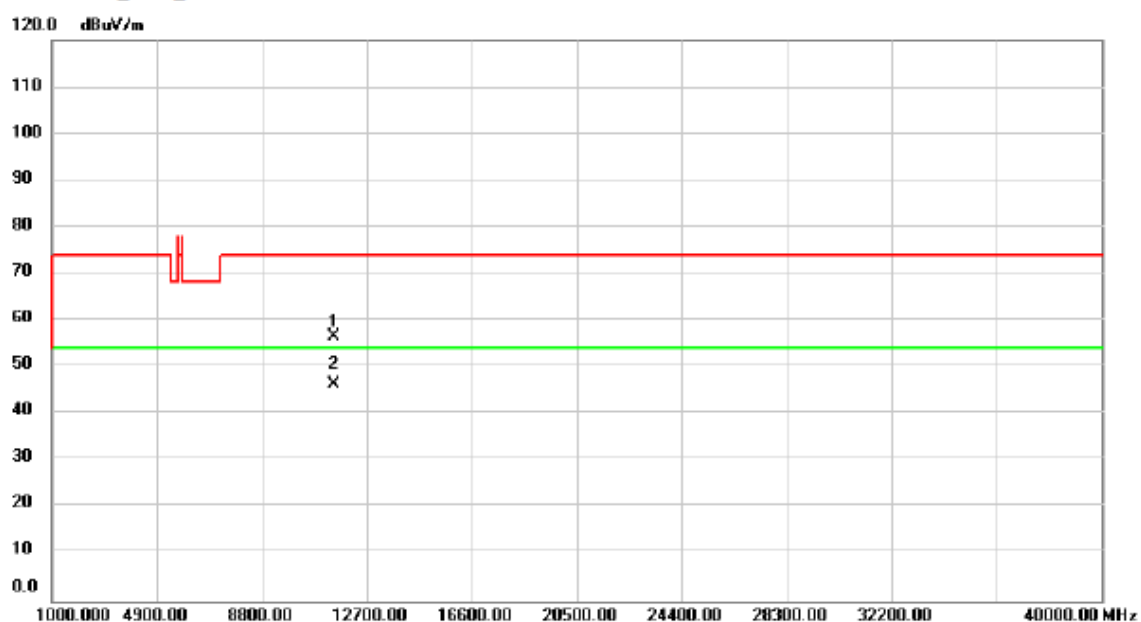
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	16.32	39.87	56.19	74.00	-17.81	peak	
2	*	11650.00	6.81	39.87	46.68	54.00	-7.32	AVG	

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

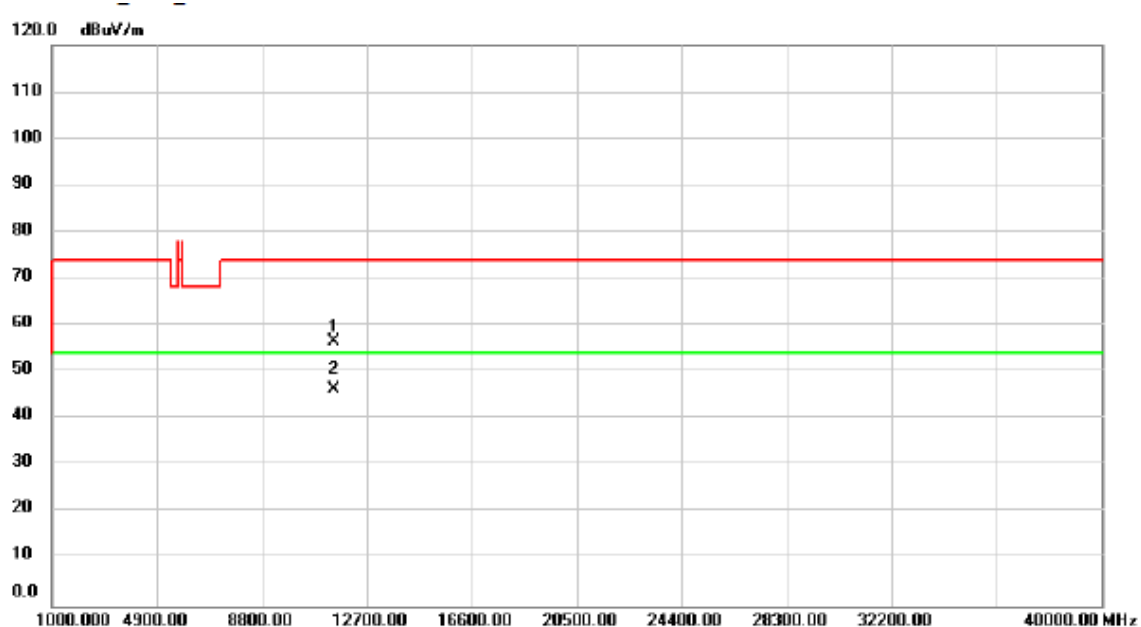
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11490.00	16.26	40.20	56.46	74.00	-17.54	peak	
2	*	11490.00	6.19	40.20	46.39	54.00	-7.61	AVG	

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

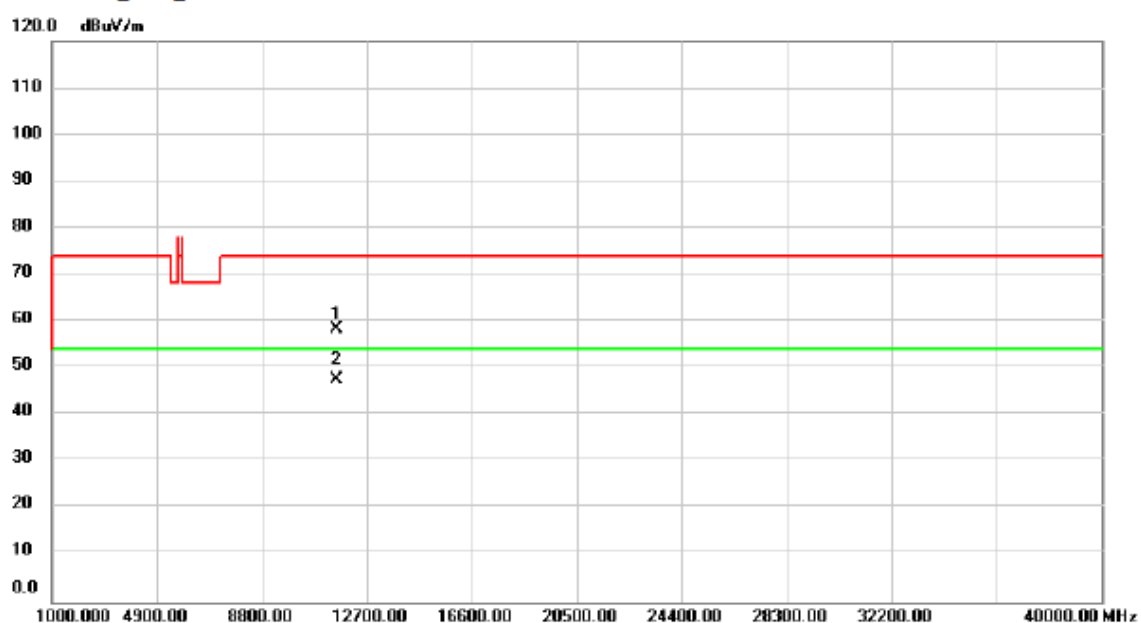
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11490.00	16.25	40.20	56.45	74.00	-17.55	peak	
2	*	11490.00	6.24	40.20	46.44	54.00	-7.56	AVG	

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

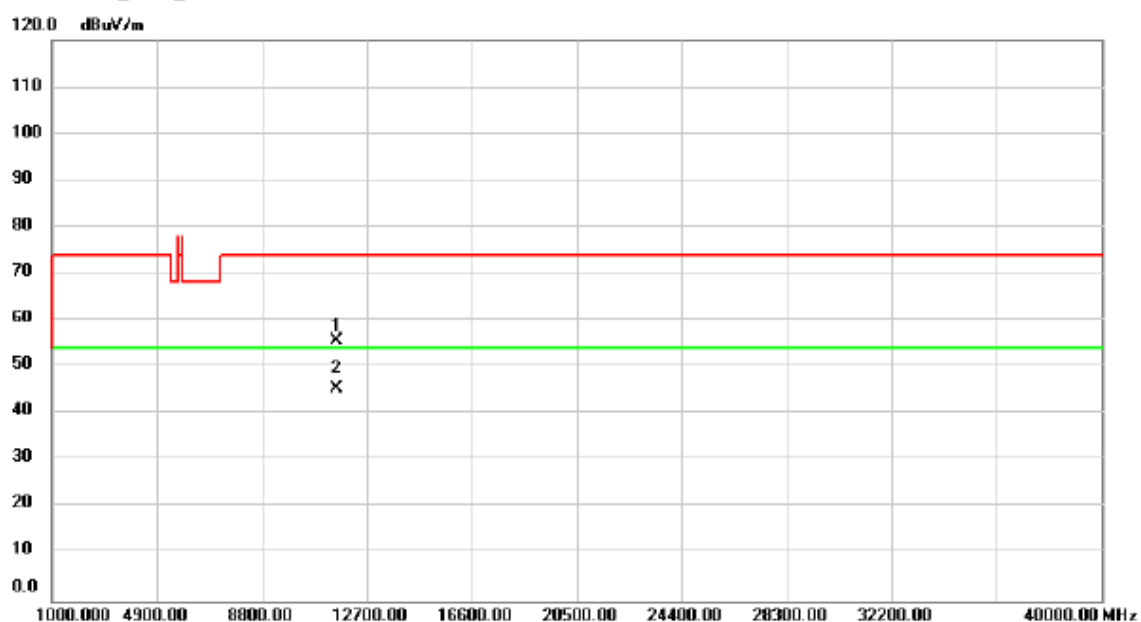
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	18.43	40.05	58.48	74.00	-15.52	peak	
2	*	11570.00	7.56	40.05	47.61	54.00	-6.39	AVG	

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

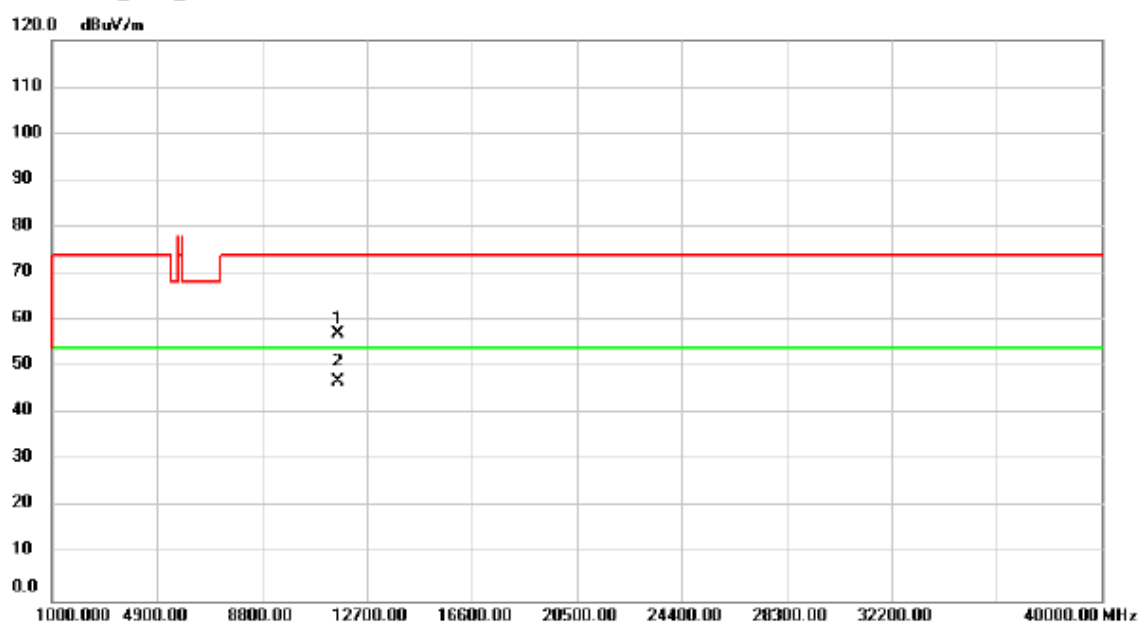
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	15.46	40.05	55.51	74.00	-18.49	peak	
2	*	11570.00	5.46	40.05	45.51	54.00	-8.49	AVG	

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

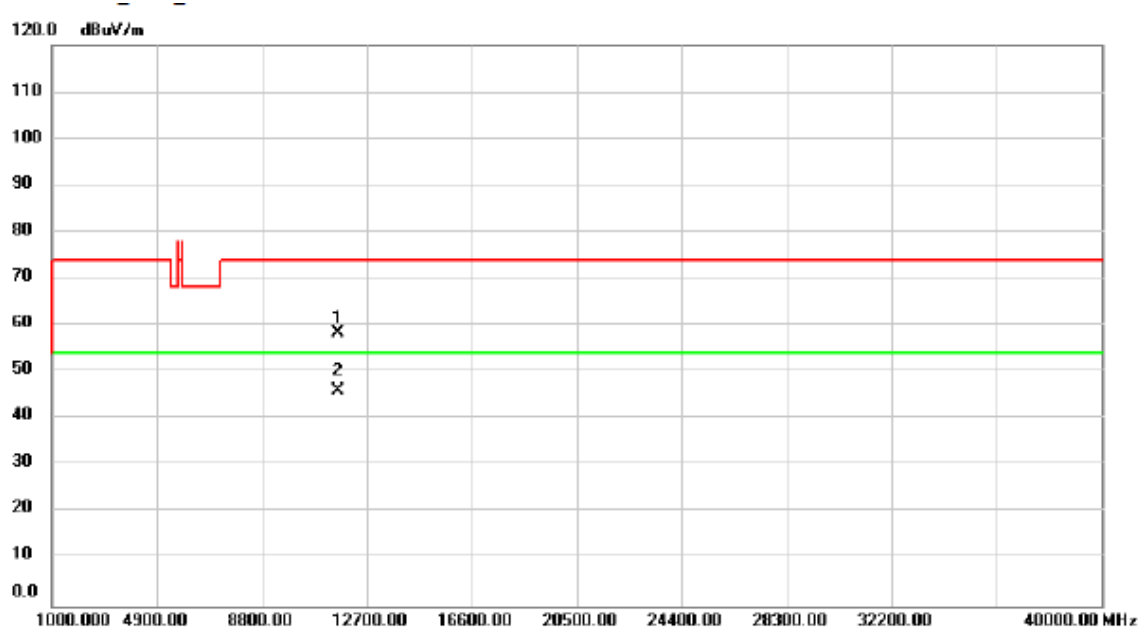
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	17.43	39.87	57.30	74.00	-16.70	peak	
2	*	11650.00	7.16	39.87	47.03	54.00	-6.97	AVG	

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

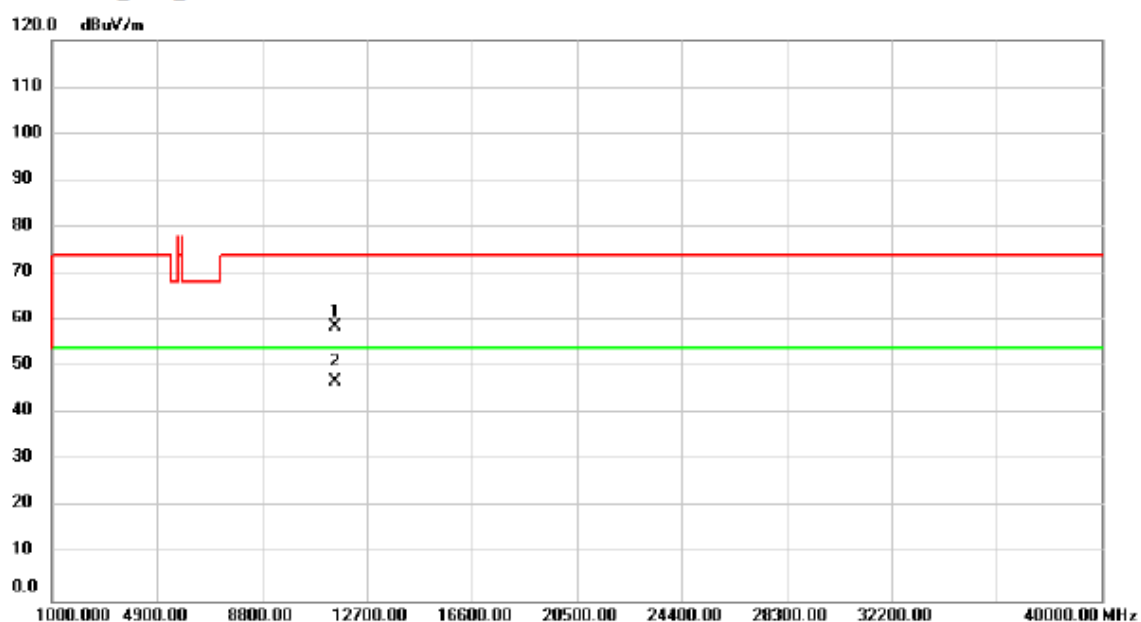
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	18.41	39.87	58.28	74.00	-15.72	peak	
2	*	11650.00	6.19	39.87	46.06	54.00	-7.94	AVG	

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

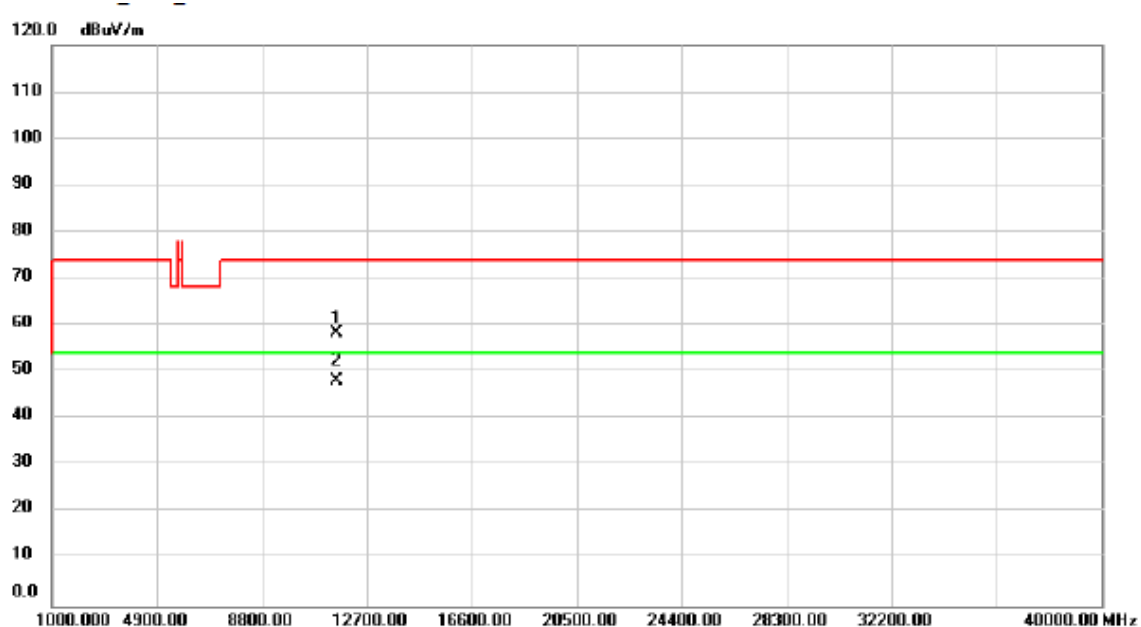
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11510.00	18.49	40.18	58.67	74.00	-15.33	peak	
2	*	11510.00	6.85	40.18	47.03	54.00	-6.97	AVG	

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

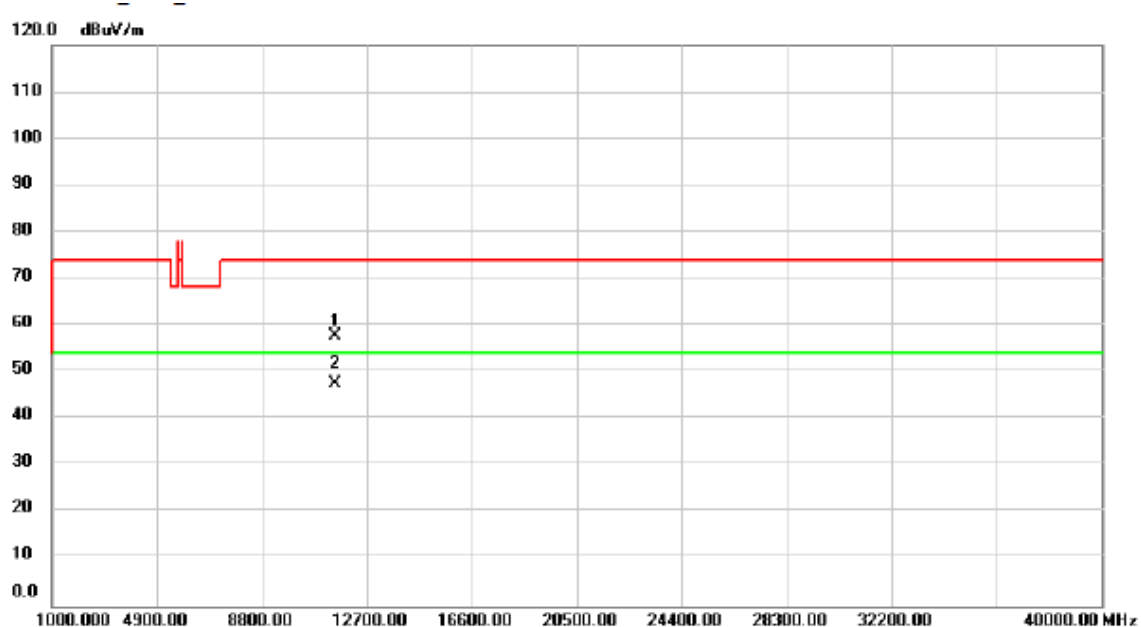
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11590.00	18.21	40.00	58.21	74.00	-15.79	peak	
2	*	11590.00	8.16	40.00	48.16	54.00	-5.84	AVG	

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

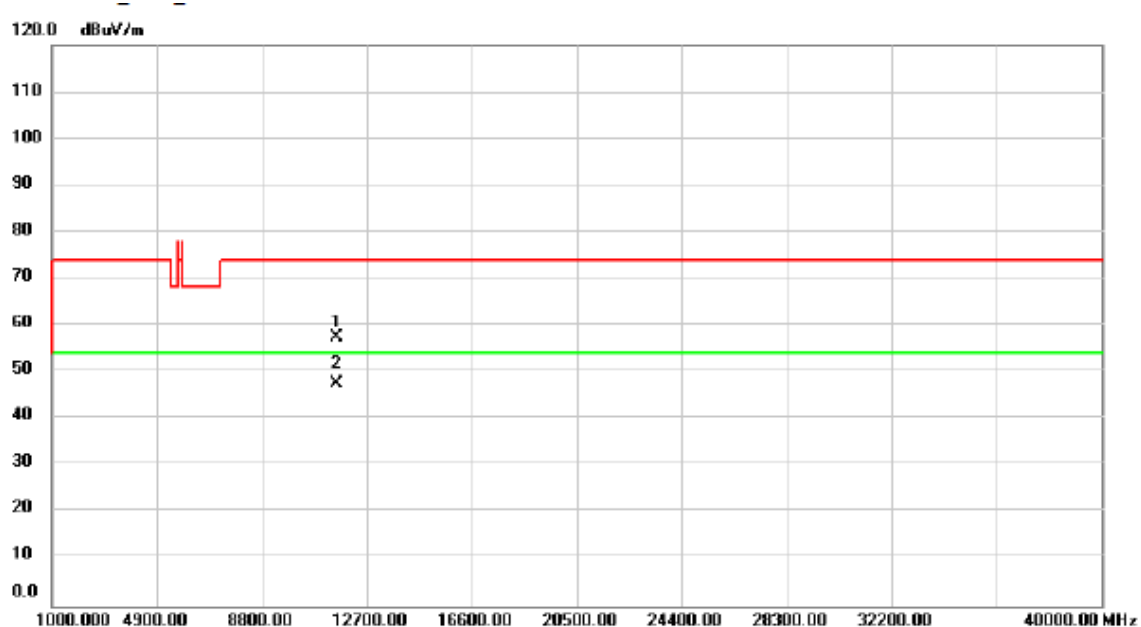
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11510.00	17.62	40.18	57.80	74.00	-16.20	peak	
2	*	11510.00	7.46	40.18	47.64	54.00	-6.36	AVG	

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

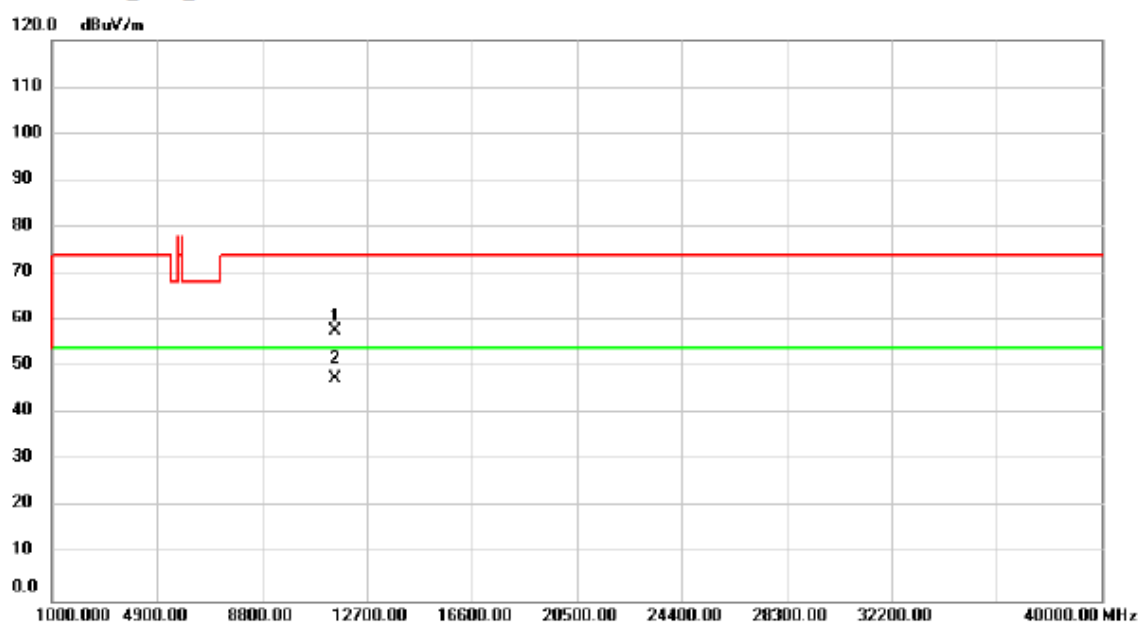
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11590.00	17.41	40.00	57.41	74.00	-16.59	peak	
2	*	11590.00	7.46	40.00	47.46	54.00	-6.54	AVG	

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

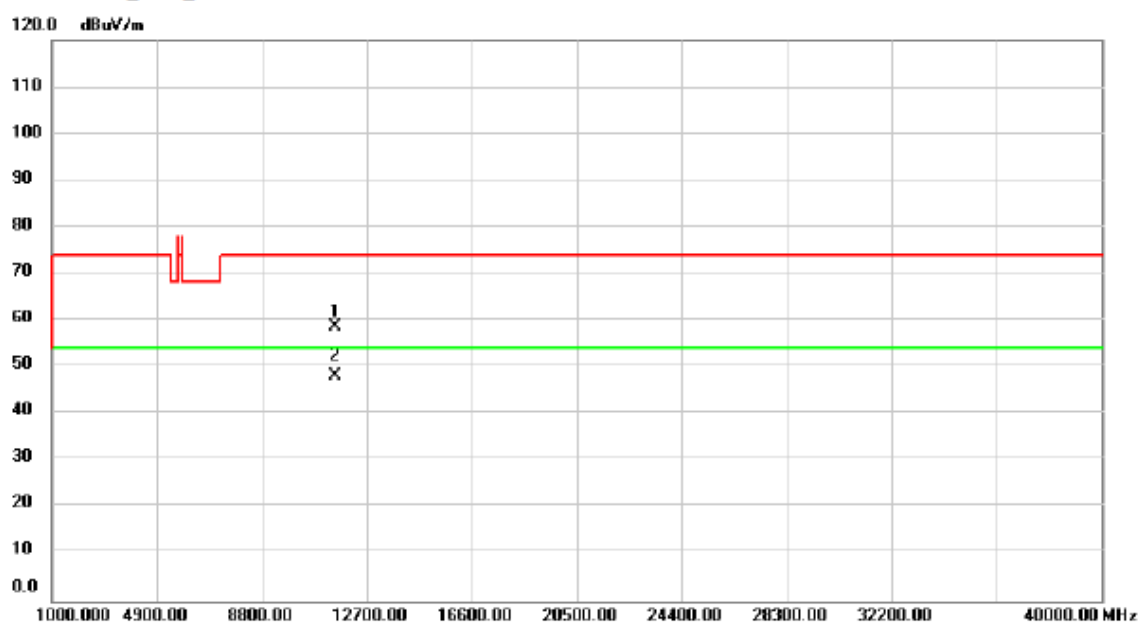
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11550.00	17.59	40.09	57.68	74.00	-16.32	peak	
2	*	11550.00	7.59	40.09	47.68	54.00	-6.32	AVG	

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

Horizontal

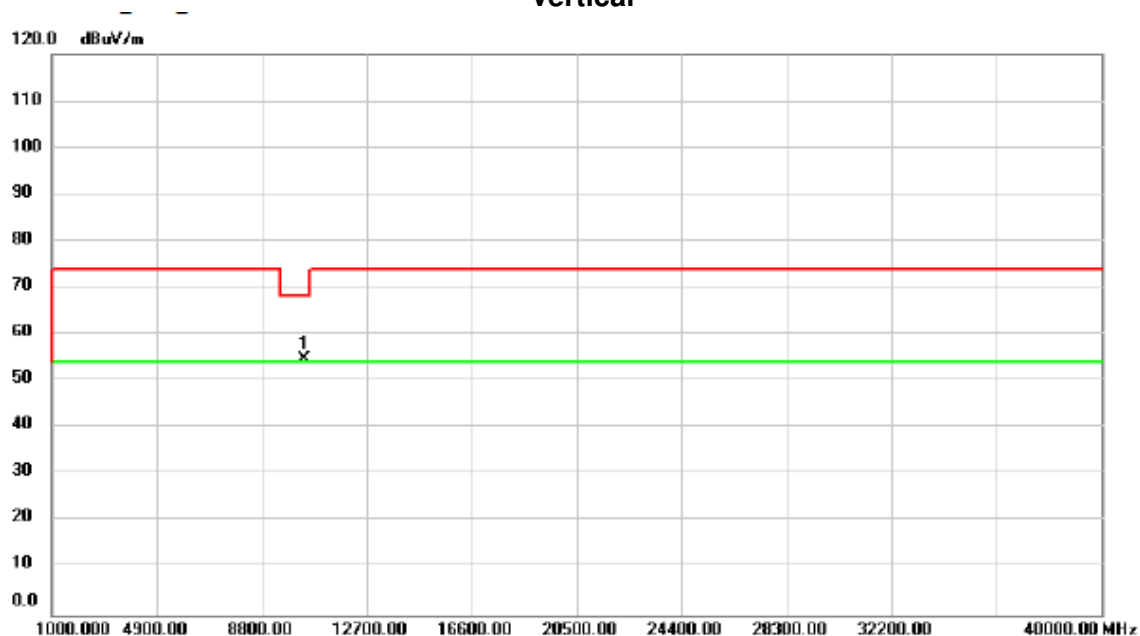


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11550.00	18.44	40.09	58.53	74.00	-15.47	peak	
2	*	11550.00	8.12	40.09	48.21	54.00	-5.79	AVG	

Beamforming

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

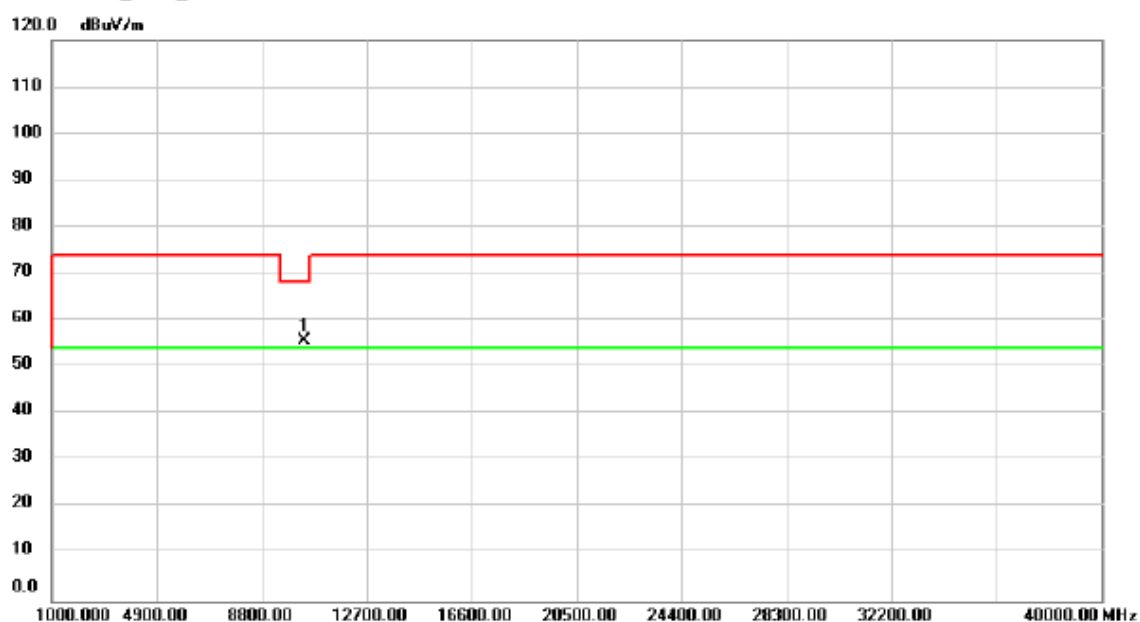
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10360.00	15.28	39.43	54.71	68.20	-13.49	peak	

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

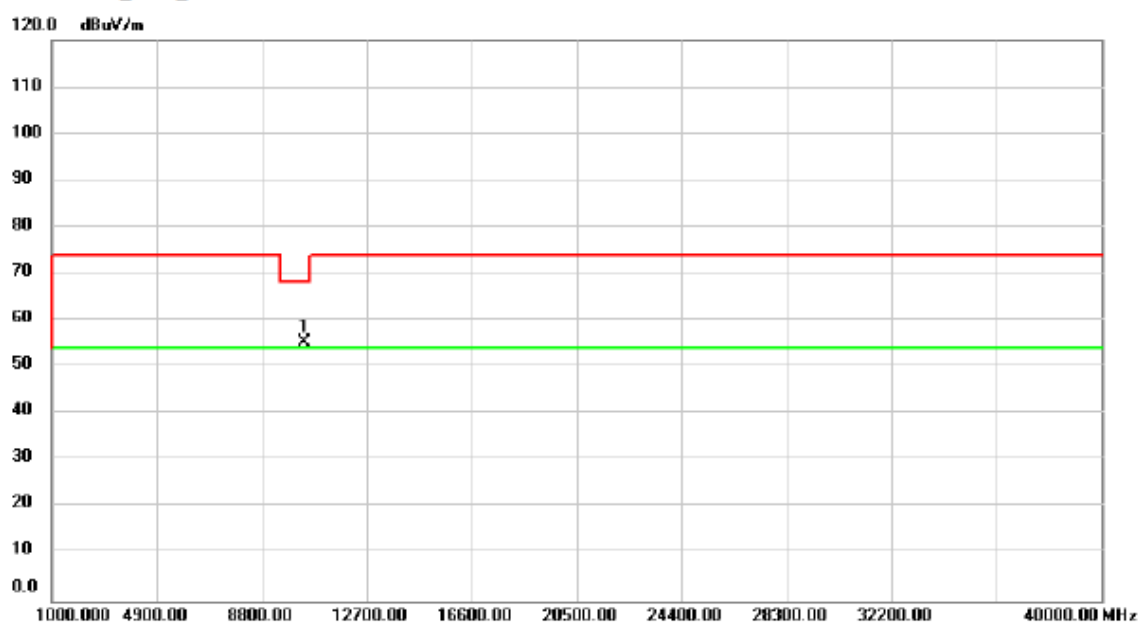
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10360.00	16.28	39.43	55.71	68.20	-12.49	peak	

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

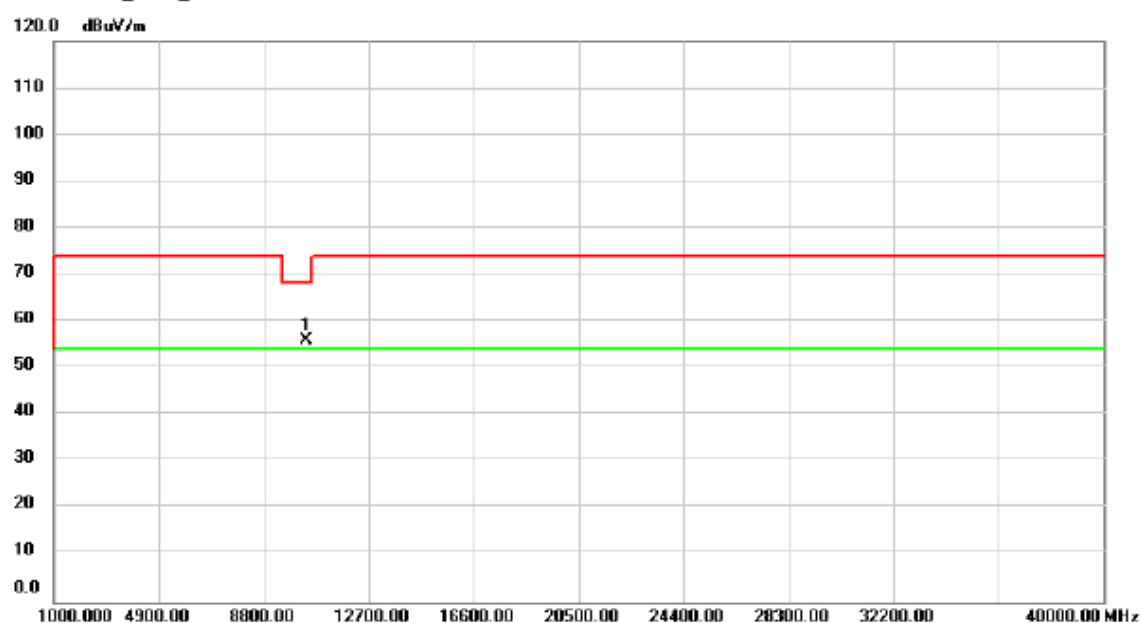
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10400.00	15.73	39.48	55.21	68.20	-12.99	peak	

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

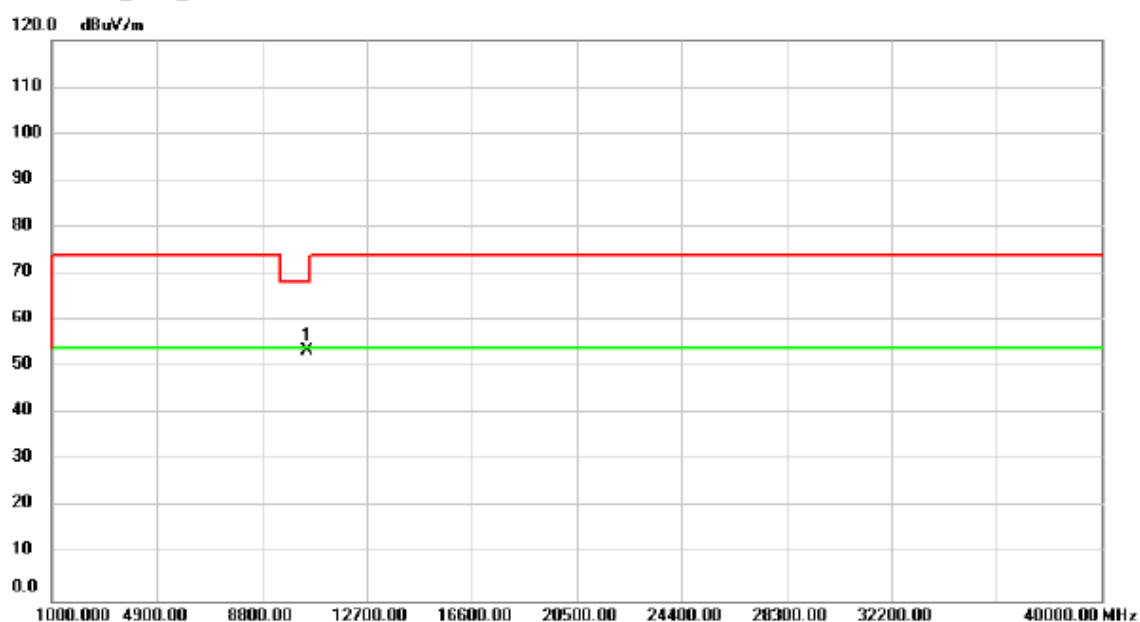
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.00	16.39	39.48	55.87	68.20	-12.33	peak	

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

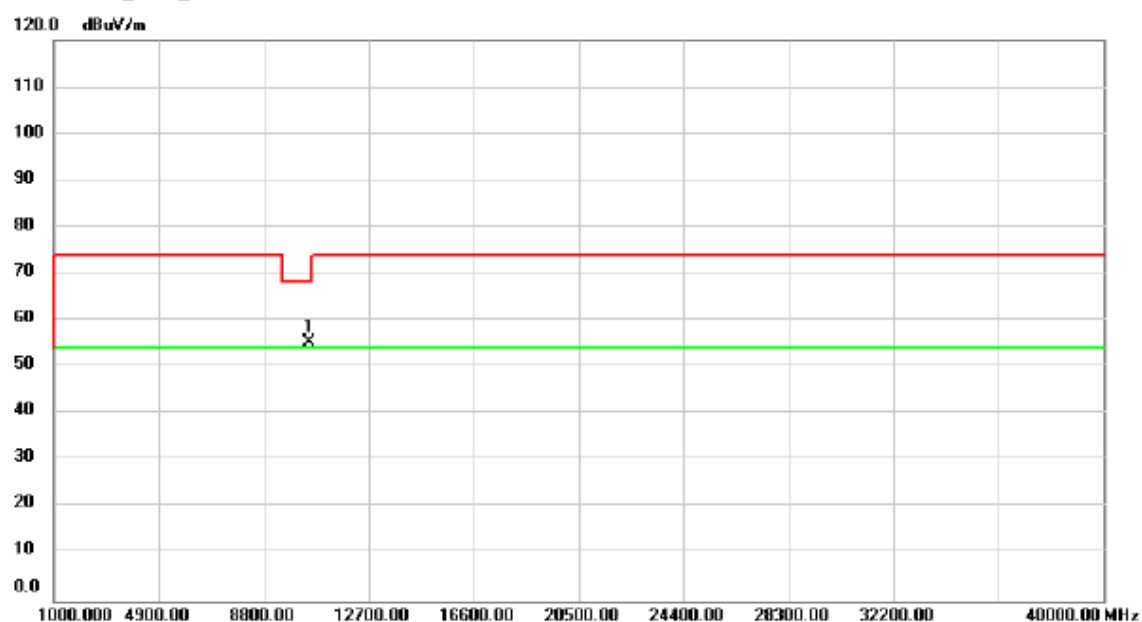
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10480.00	13.89	39.58	53.47	68.20	-14.73	peak	

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

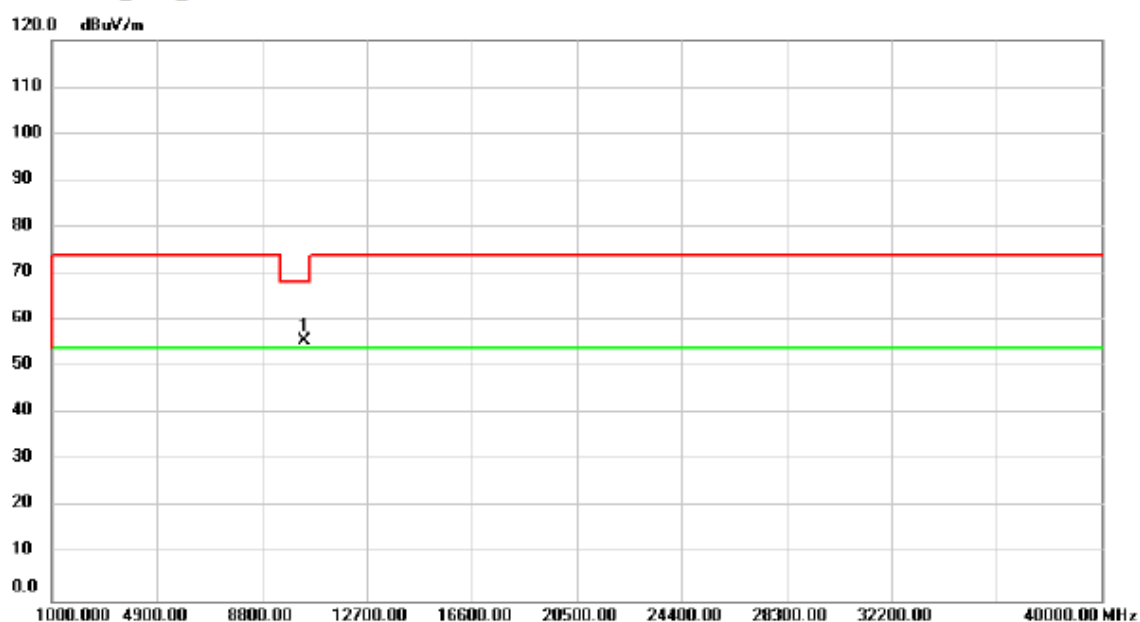
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	10480.00	15.82	39.58	55.40	68.20	-12.80	peak	

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

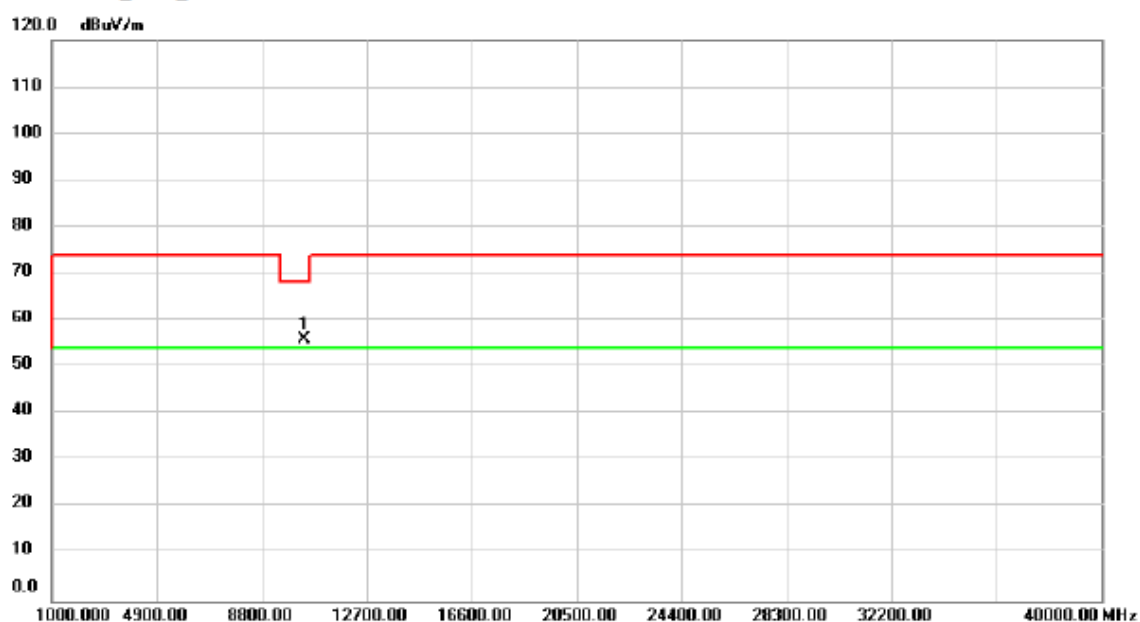
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10380.00	16.21	39.46	55.67	68.20	-12.53	peak	

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

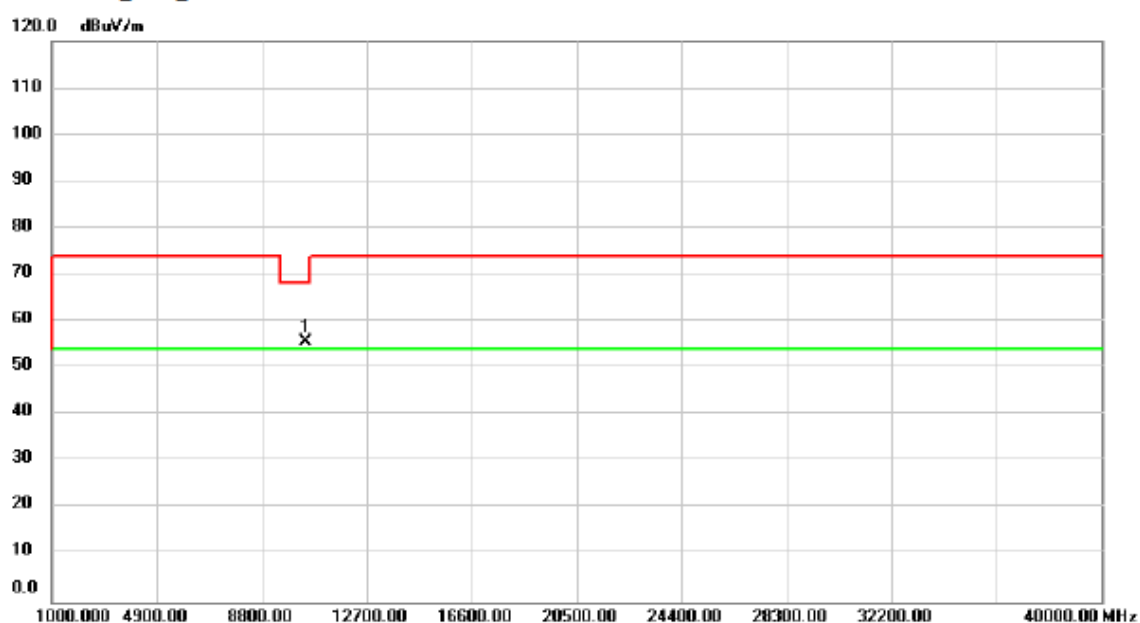
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10380.00	16.59	39.46	56.05	68.20	-12.15	peak	

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

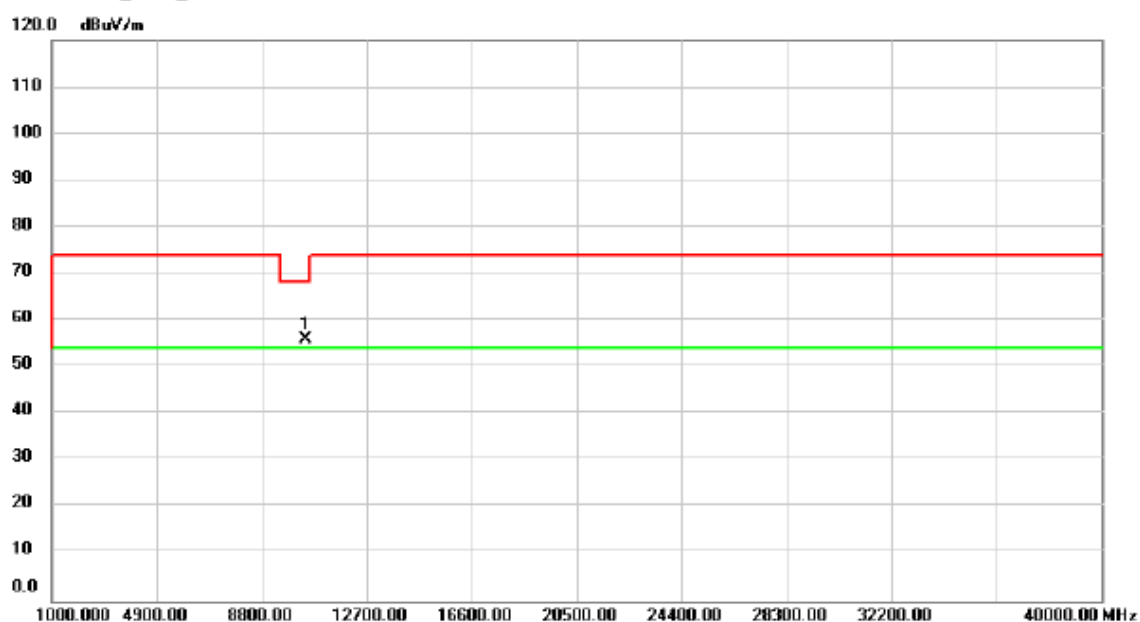
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10460.00	16.11	39.55	55.66	68.20	-12.54	peak	

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

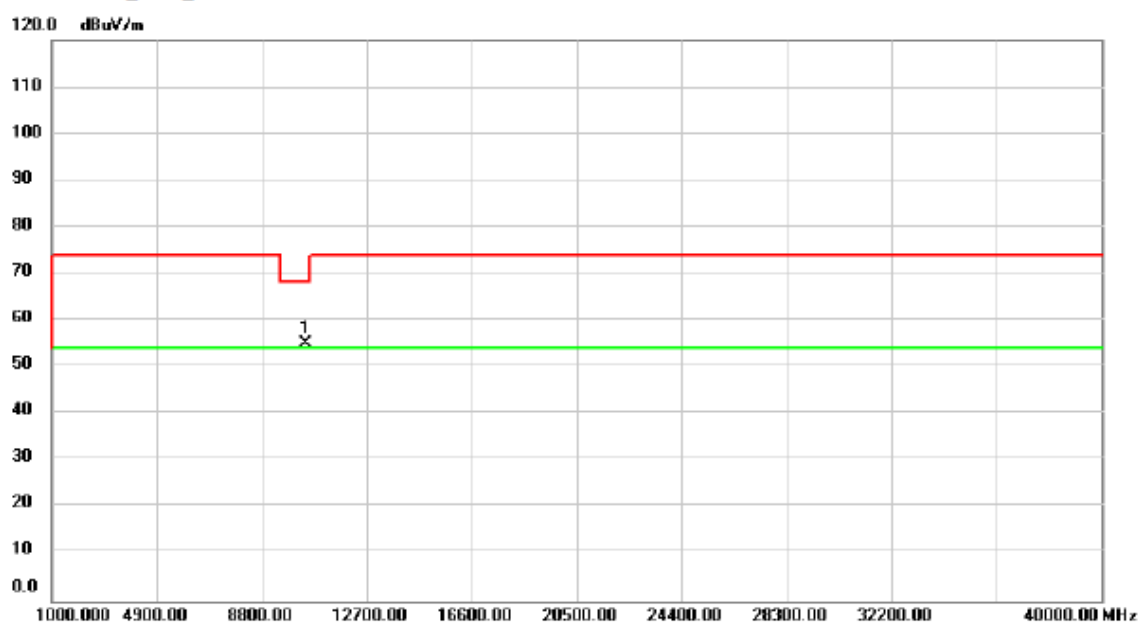
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10460.00	16.48	39.55	56.03	68.20	-12.17	peak	

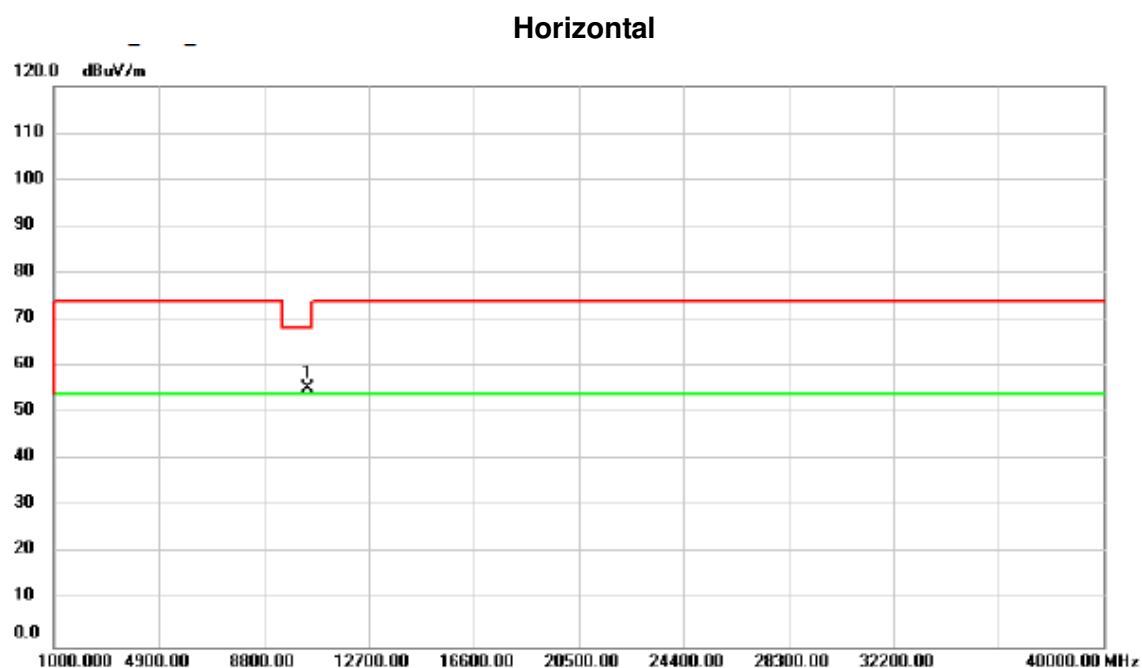
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	10420.00	15.62	39.50	55.12	68.20	-13.08	peak	

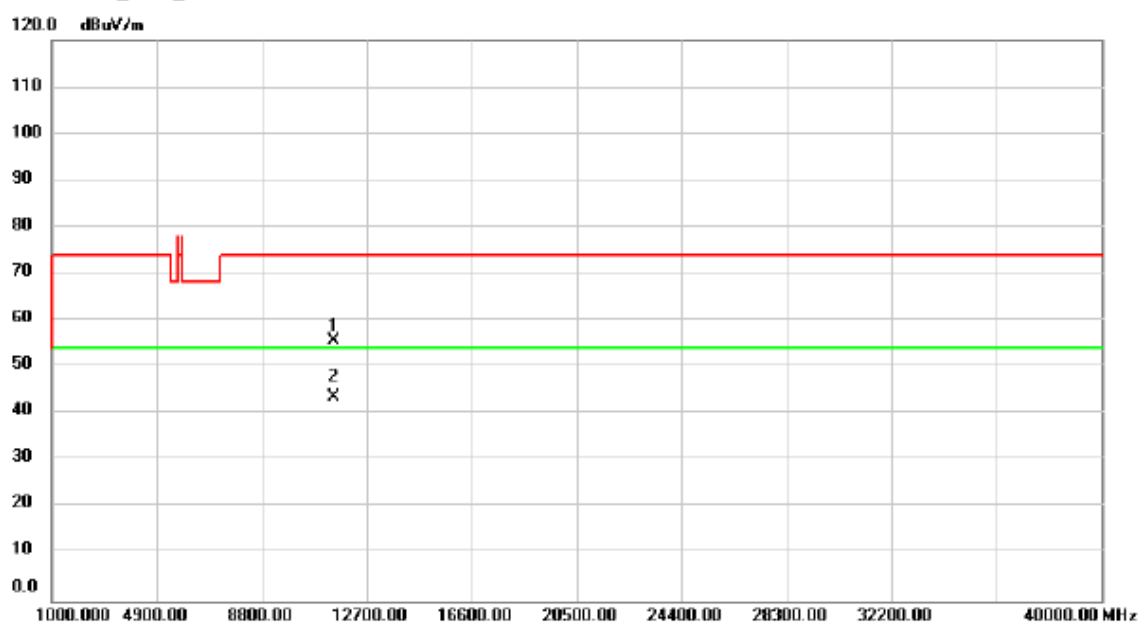
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10420.00	15.99	39.50	55.49	68.20	-12.71	peak	

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

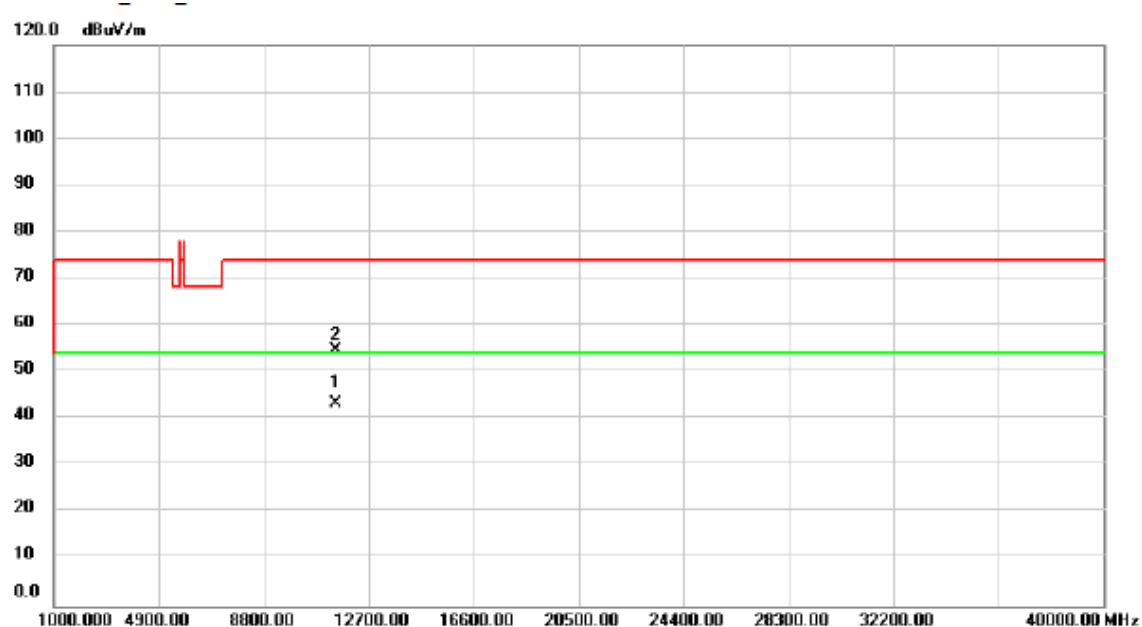
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11490.00	15.34	40.20	55.54	74.00	-18.46	peak	
2	*	11490.00	3.53	40.20	43.73	54.00	-10.27	AVG	

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

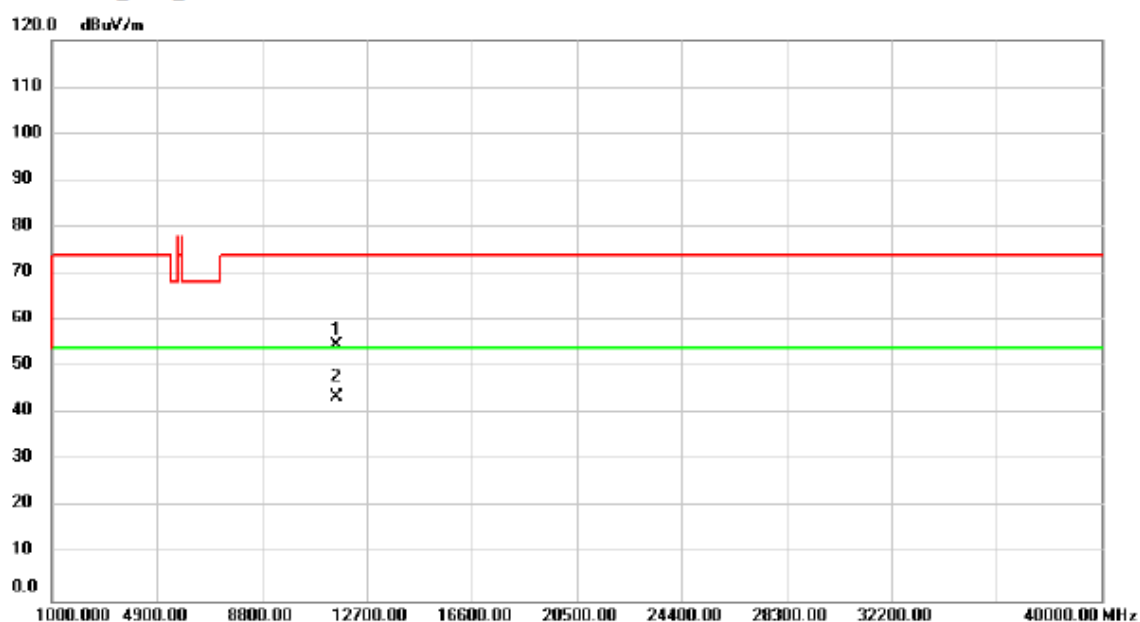
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	11490.00	3.00	40.20	43.20	54.00	-10.80	AVG	
2		11490.00	14.55	40.20	54.75	74.00	-19.25	peak	

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

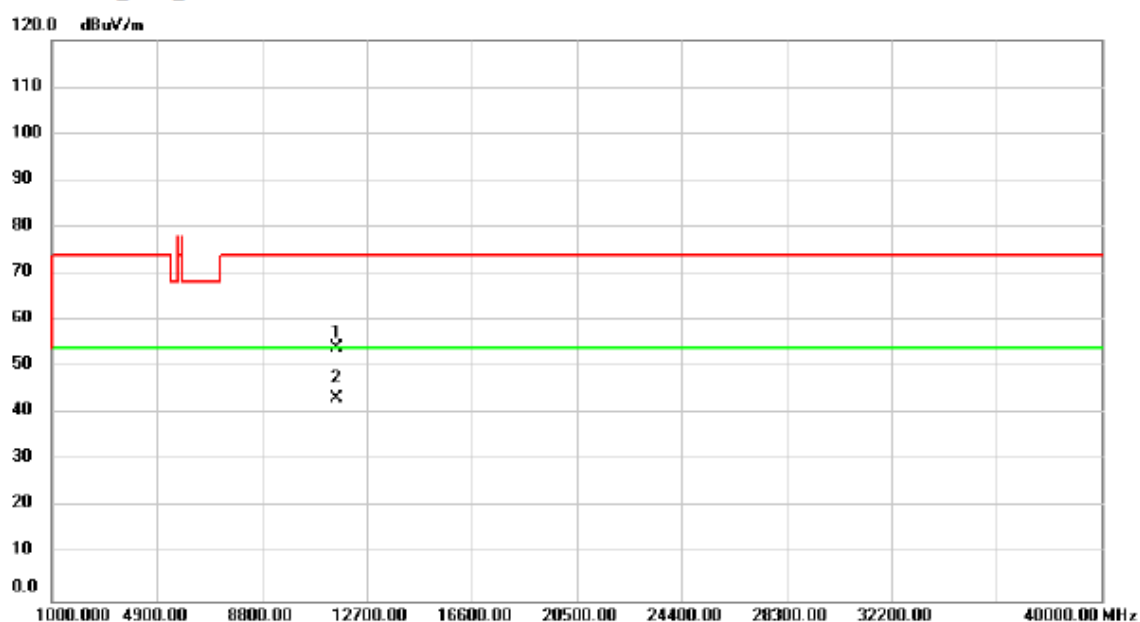
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	14.65	40.05	54.70	74.00	-19.30	peak	
2	*	11570.00	3.60	40.05	43.65	54.00	-10.35	AVG	

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

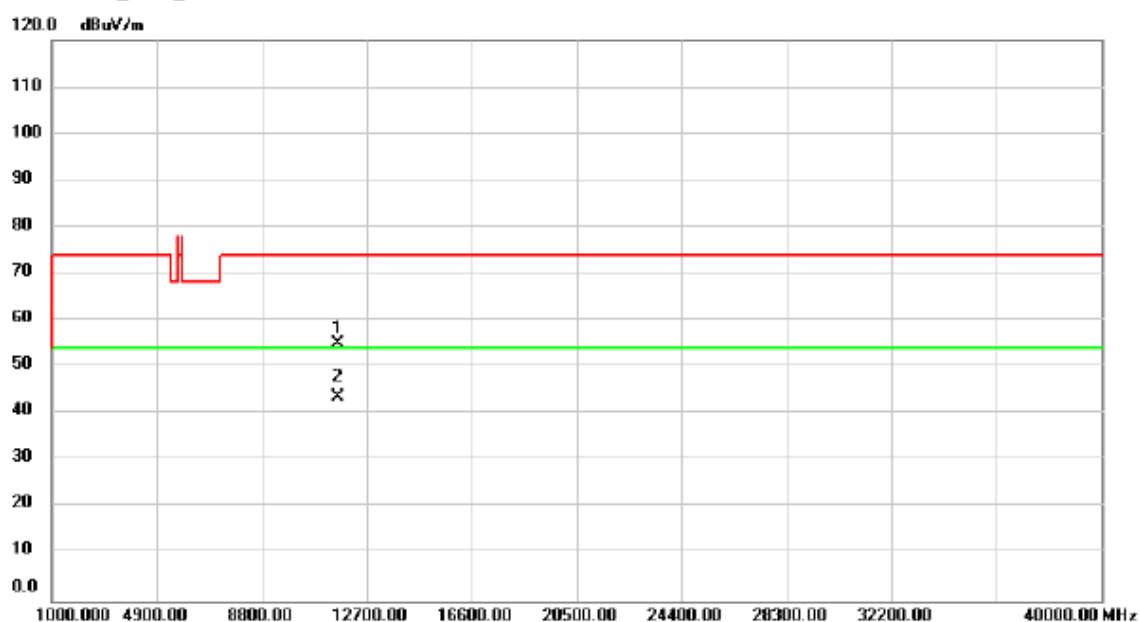
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11570.00	13.99	40.05	54.04	74.00	-19.96	peak	
2	*	11570.00	3.40	40.05	43.45	54.00	-10.55	AVG	

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

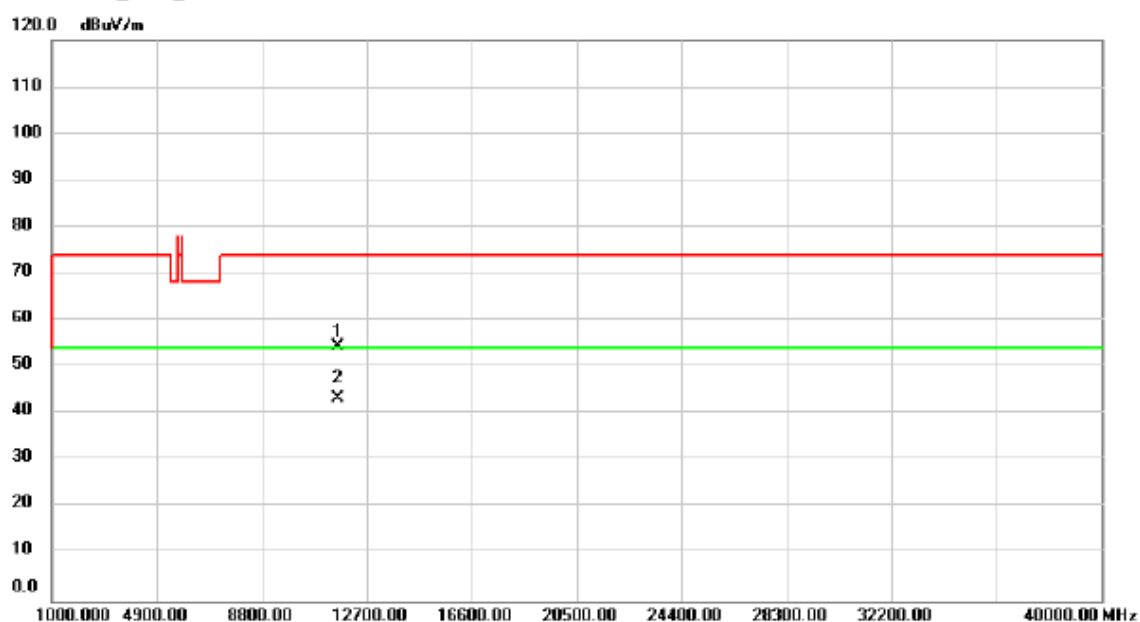
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	15.22	39.87	55.09	74.00	-18.91	peak	
2	*	11650.00	3.69	39.87	43.56	54.00	-10.44	AVG	

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

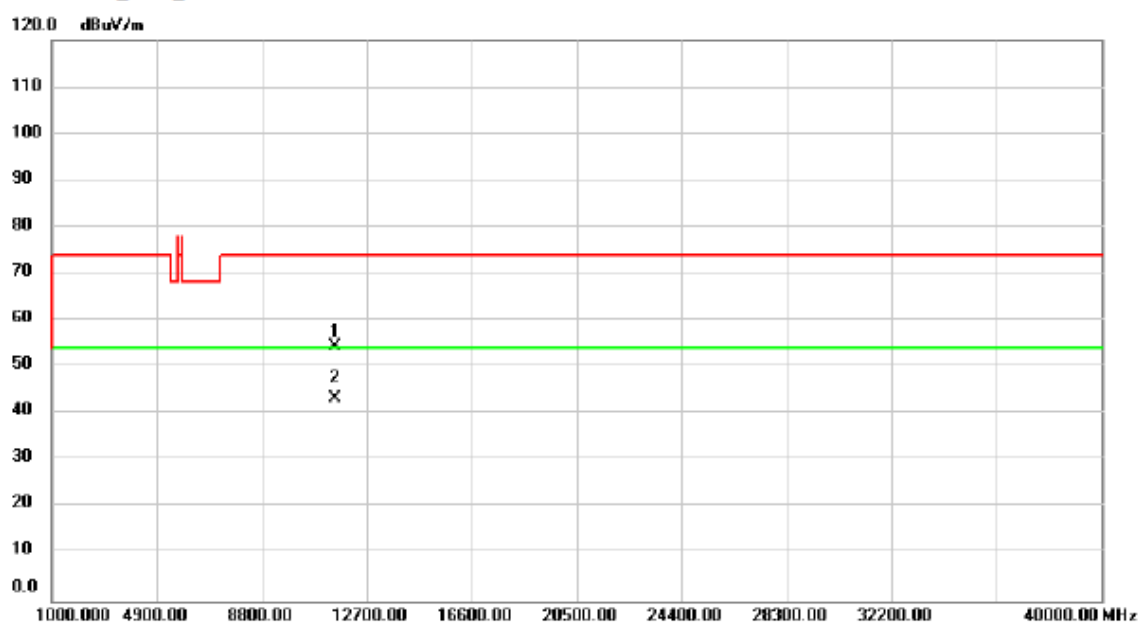
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11650.00	14.44	39.87	54.31	74.00	-19.69	peak	
2	*	11650.00	3.58	39.87	43.45	54.00	-10.55	AVG	

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

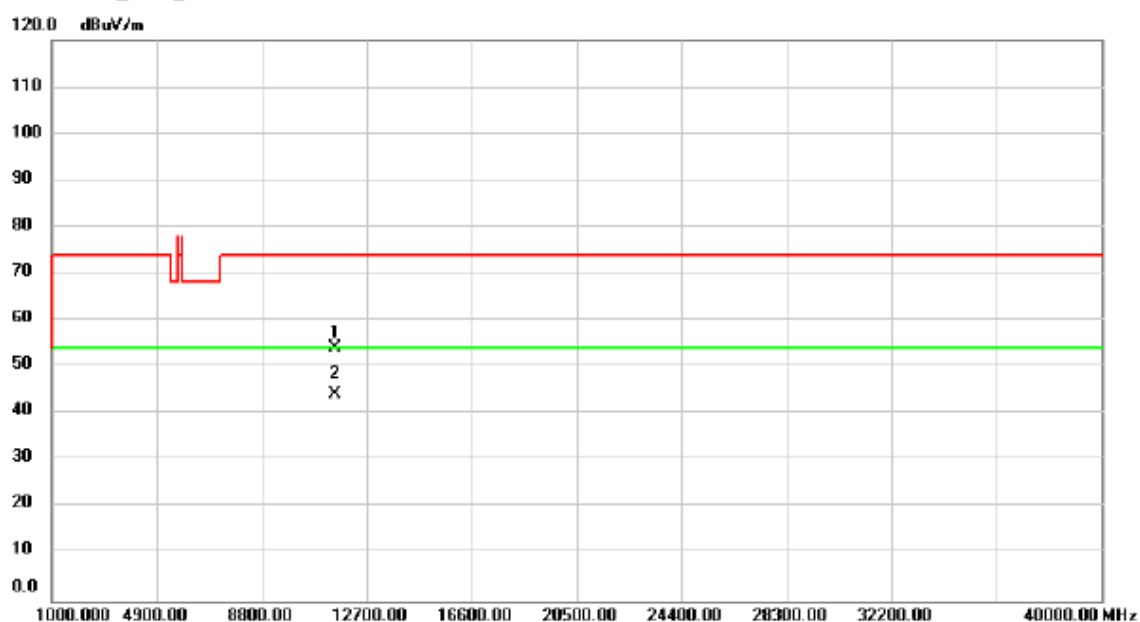
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11510.00	14.35	40.18	54.53	74.00	-19.47	peak	
2	*	11510.00	3.23	40.18	43.41	54.00	-10.59	AVG	

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

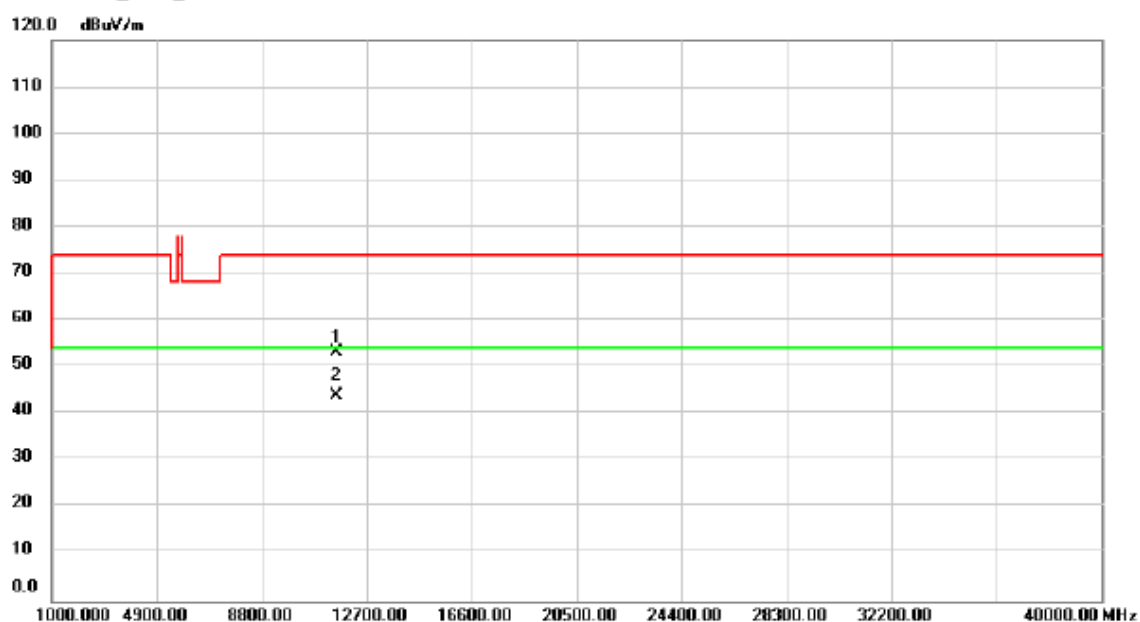
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11510.00	14.02	40.18	54.20	74.00	-19.80	peak	
2	*	11510.00	3.93	40.18	44.11	54.00	-9.89	AVG	

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

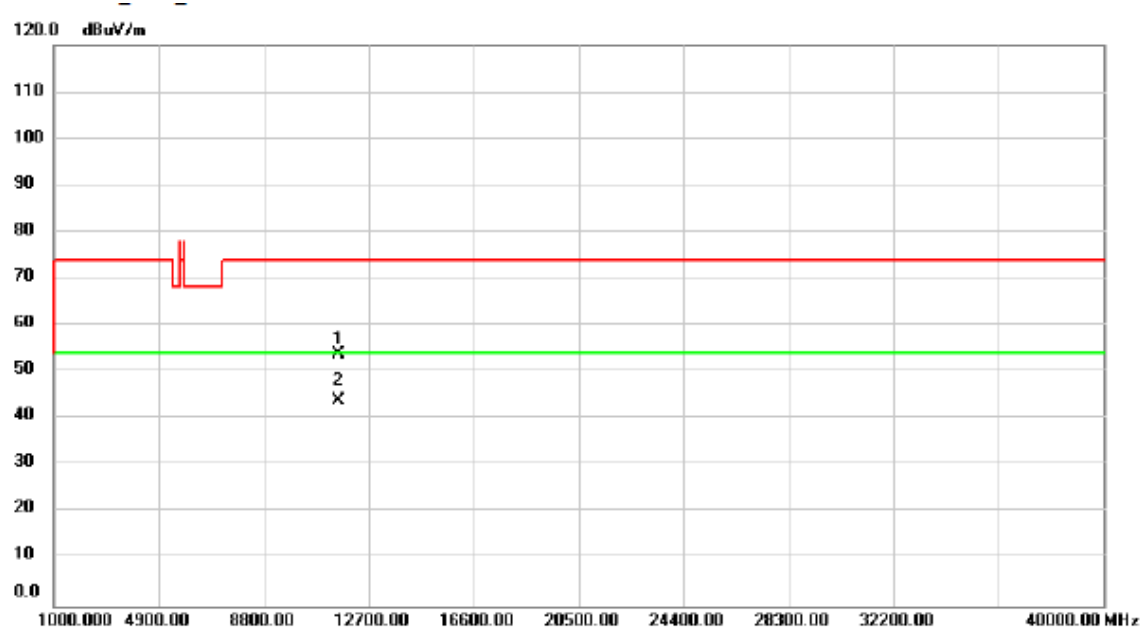
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11590.00	13.30	40.00	53.30	74.00	-20.70	peak	
2	*	11590.00	4.05	40.00	44.05	54.00	-9.95	AVG	

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

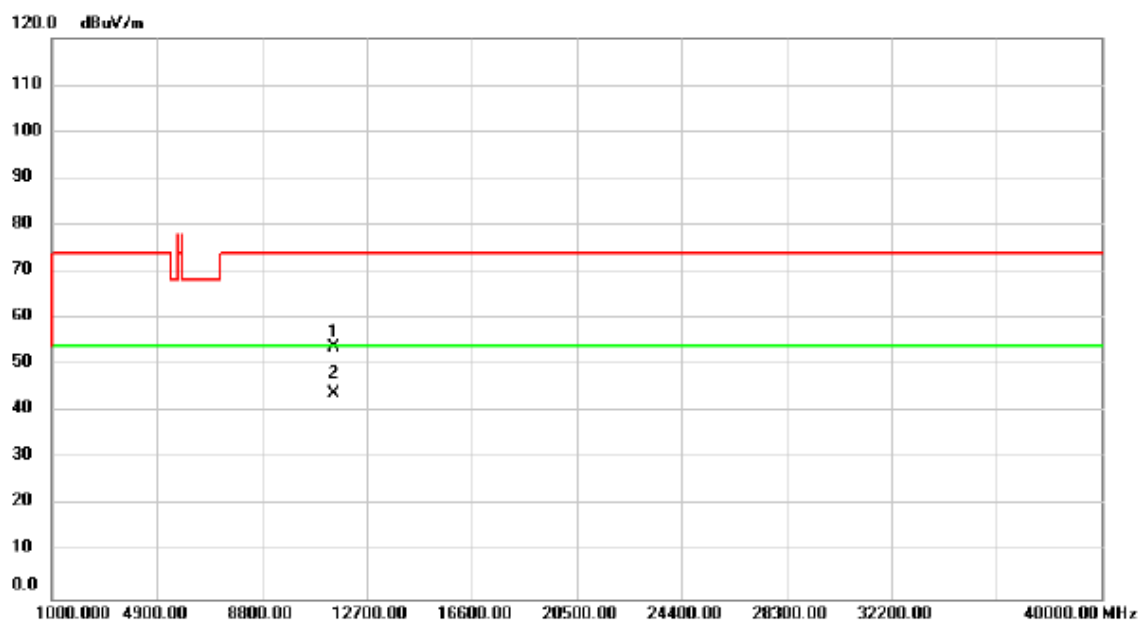
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11590.00	13.78	40.00	53.78	74.00	-20.22	peak	
2	*	11590.00	3.82	40.00	43.82	54.00	-10.18	AVG	

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

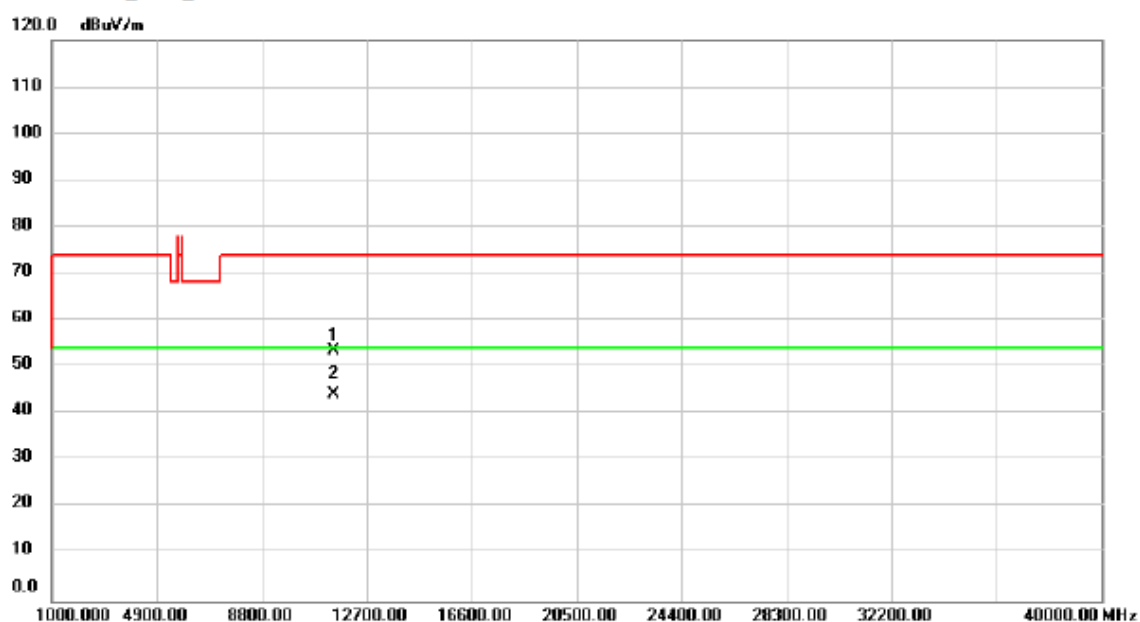
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		11500.00	13.54	40.20	53.74	74.00	-20.26	peak	
2	*	11500.00	3.82	40.20	44.02	54.00	-9.98	AVG	

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

Horizontal



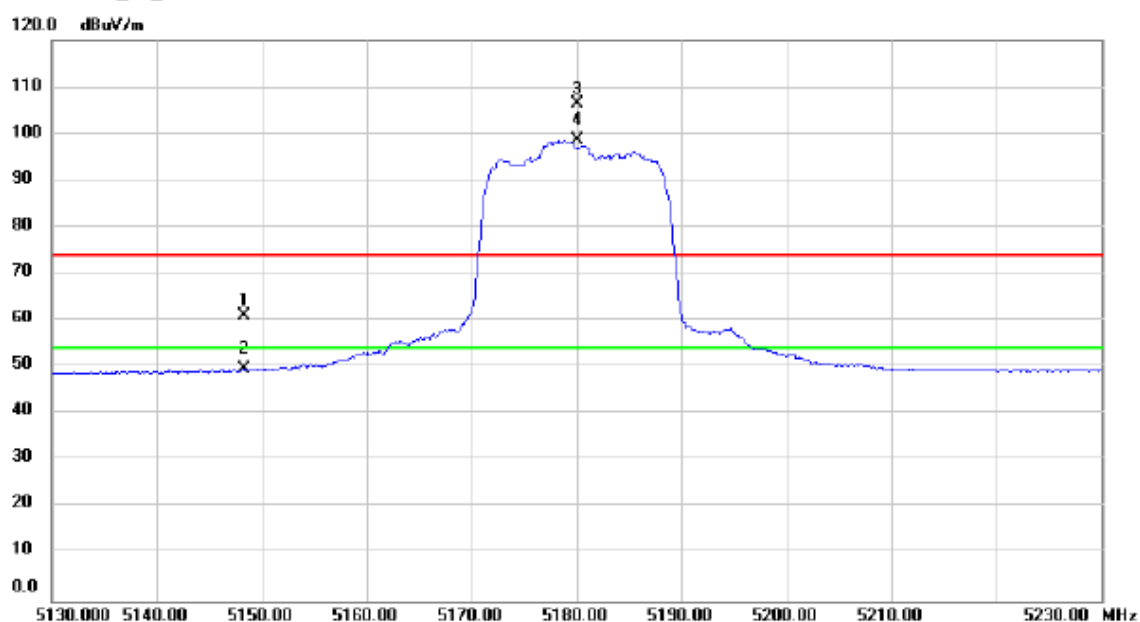
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		11500.00	13.45	40.20	53.65	74.00	-20.35	peak	
2	*	11500.00	4.04	40.20	44.24	54.00	-9.76	AVG	

ATTACHMENT E - BAND EDGE AND FUNDAMENTAL EMISSIONS

Non-Beamforming

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

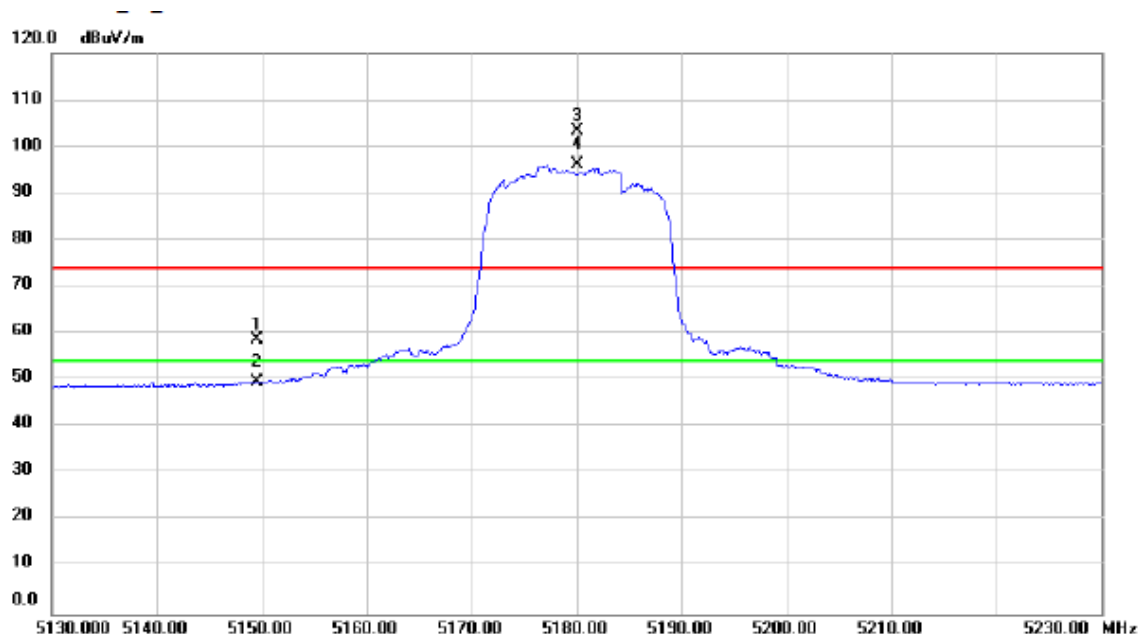
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5148.400	28.00	32.97	60.97	74.00	-13.03	peak	Band Edge
2		5148.400	16.56	32.97	49.53	54.00	-4.47	AVG	Band Edge
3	X	5180.000	73.40	32.96	106.36	74.00	32.36	peak	No Limit
4	*	5180.000	65.53	32.96	98.49	54.00	44.49	AVG	No Limit

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

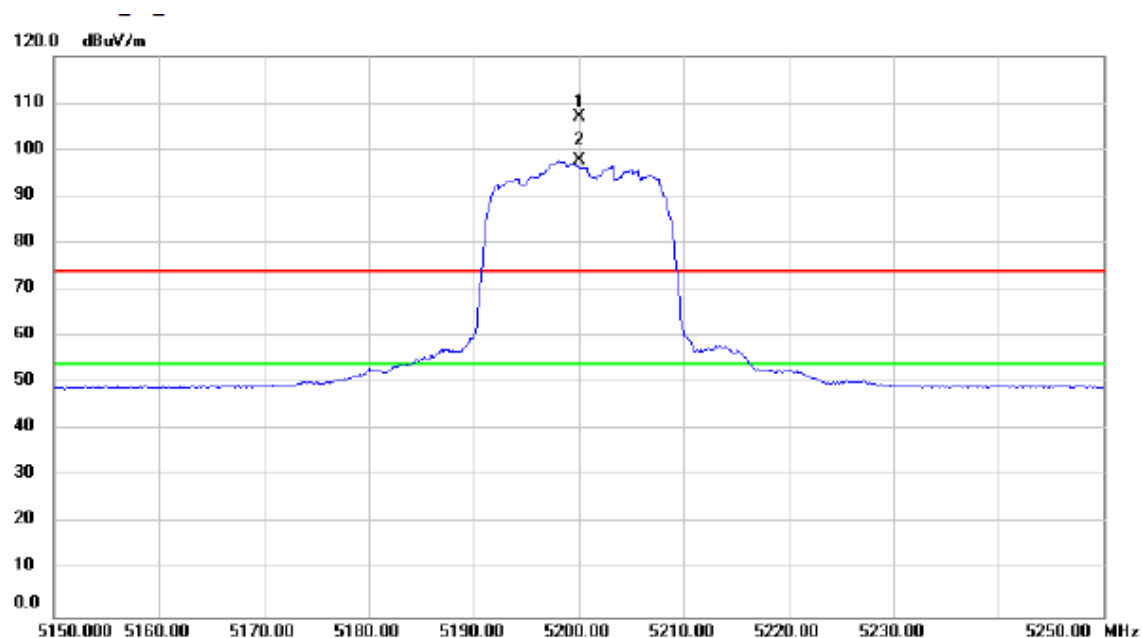
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5149.500	25.82	32.97	58.79	74.00	-15.21	peak	Band Edge
2		5149.500	16.79	32.97	49.76	54.00	-4.24	AVG	Band Edge
3	X	5180.000	70.51	32.96	103.47	74.00	29.47	peak	No Limit
4	*	5180.000	63.21	32.96	96.17	54.00	42.17	AVG	No Limit

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

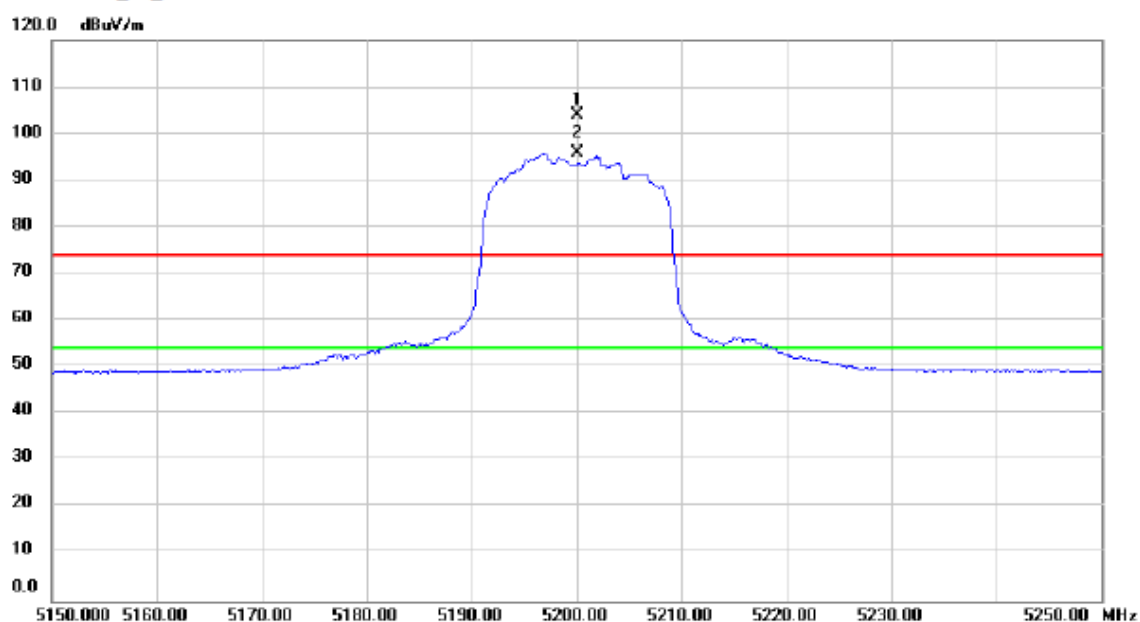
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5200.000	73.94	32.96	106.90	74.00	32.90	peak	No Limit
2	*	5200.000	64.59	32.96	97.55	54.00	43.55	AVG	No Limit

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

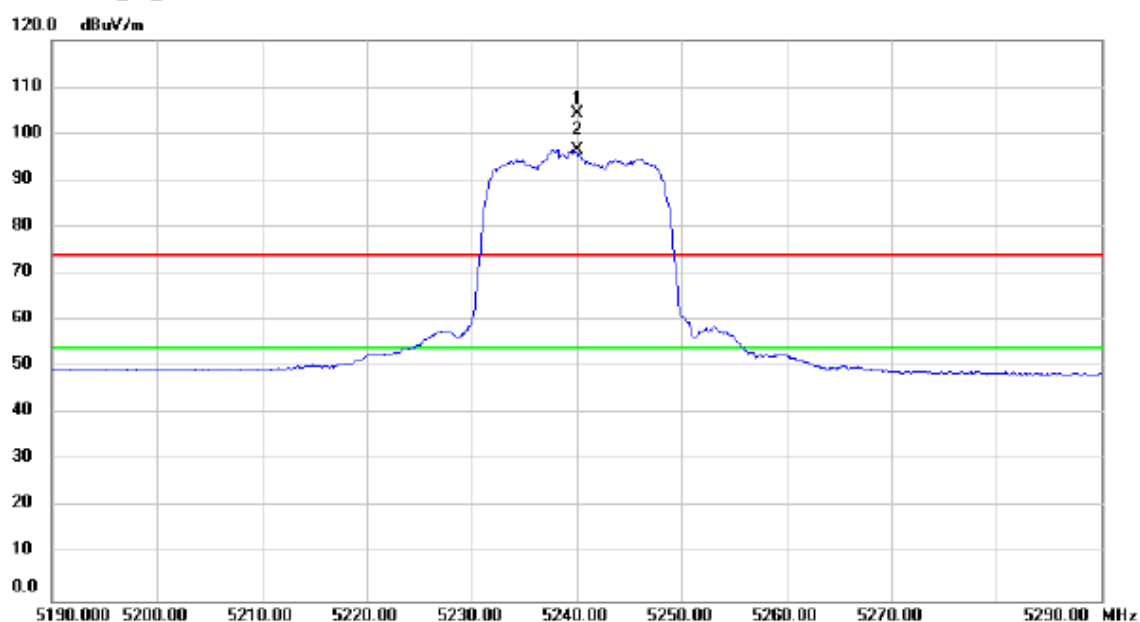
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5200.000	71.01	32.96	103.97	74.00	29.97	peak	No Limit
2	*	5200.000	62.79	32.96	95.75	54.00	41.75	AVG	No Limit

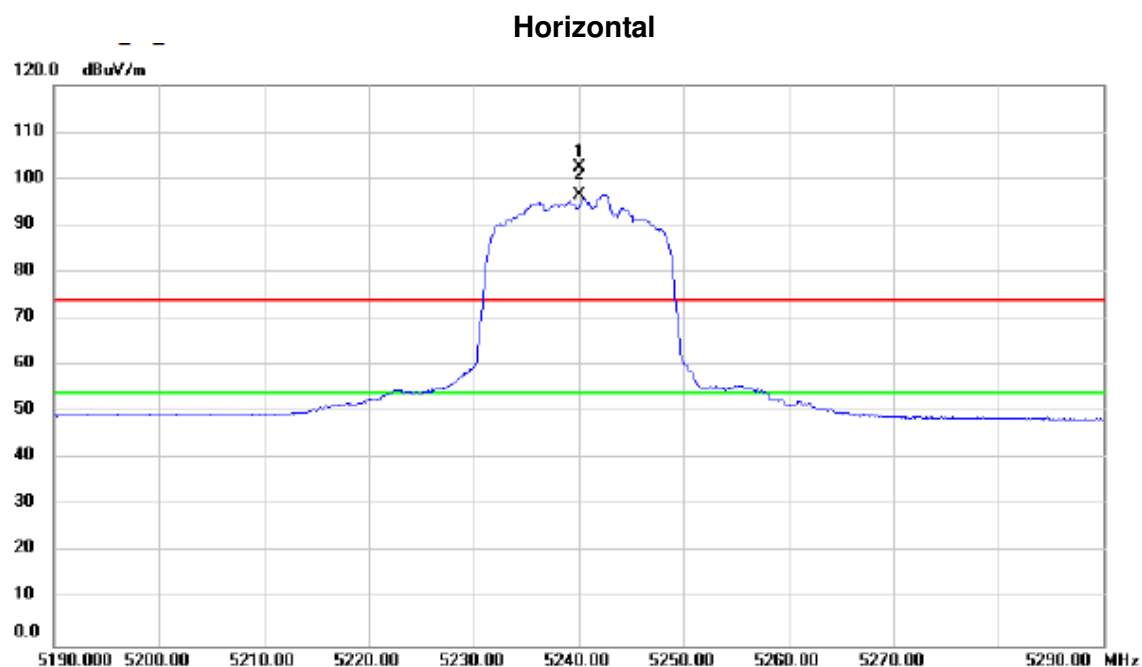
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5240.000	71.33	32.95	104.28	74.00	30.28	peak	
2	*	5240.000	63.55	32.95	96.50	54.00	42.50	AVG	

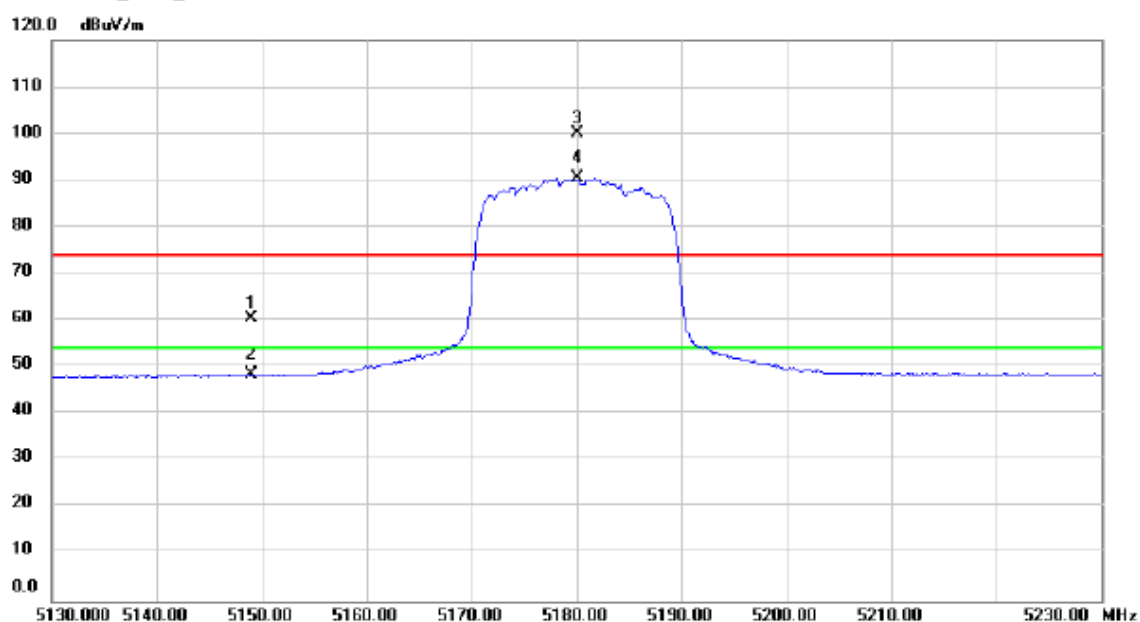
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5240.000	69.49	32.95	102.44	74.00	28.44	peak	
2	*	5240.000	63.52	32.95	96.47	54.00	42.47	AVG	

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

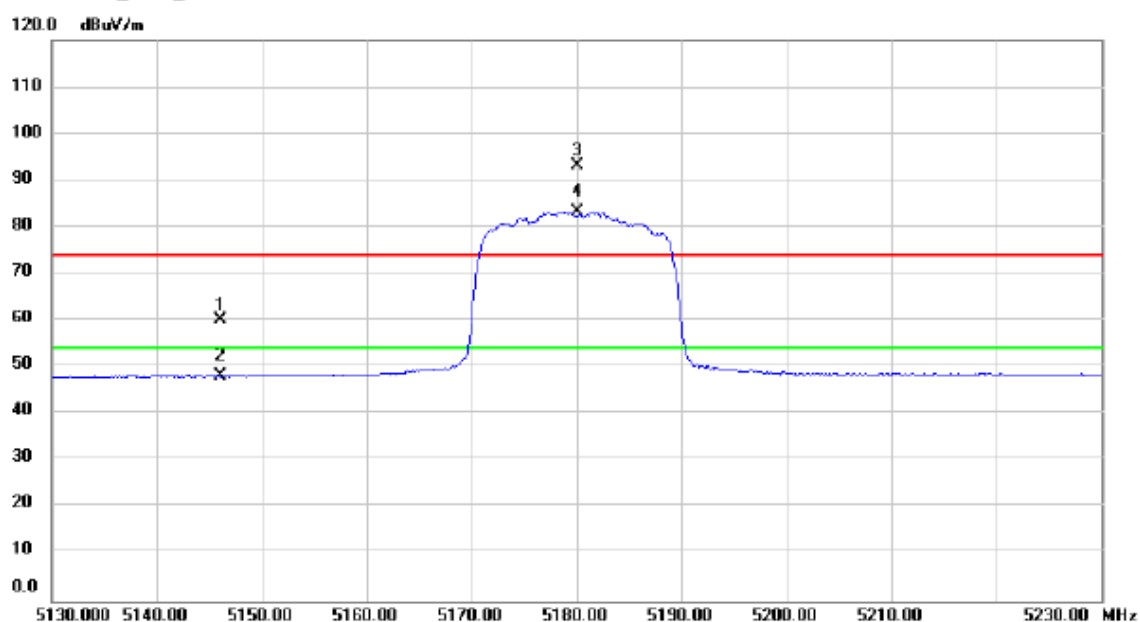
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5149.000	29.15	31.42	60.57	74.00	-13.43	peak	Band Edge
2		5149.000	17.01	31.42	48.43	54.00	-5.57	AVG	Band Edge
3	X	5180.000	68.73	31.44	100.17	74.00	26.17	peak	No Limit
4	*	5180.000	59.13	31.44	90.57	54.00	36.57	AVG	No Limit

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

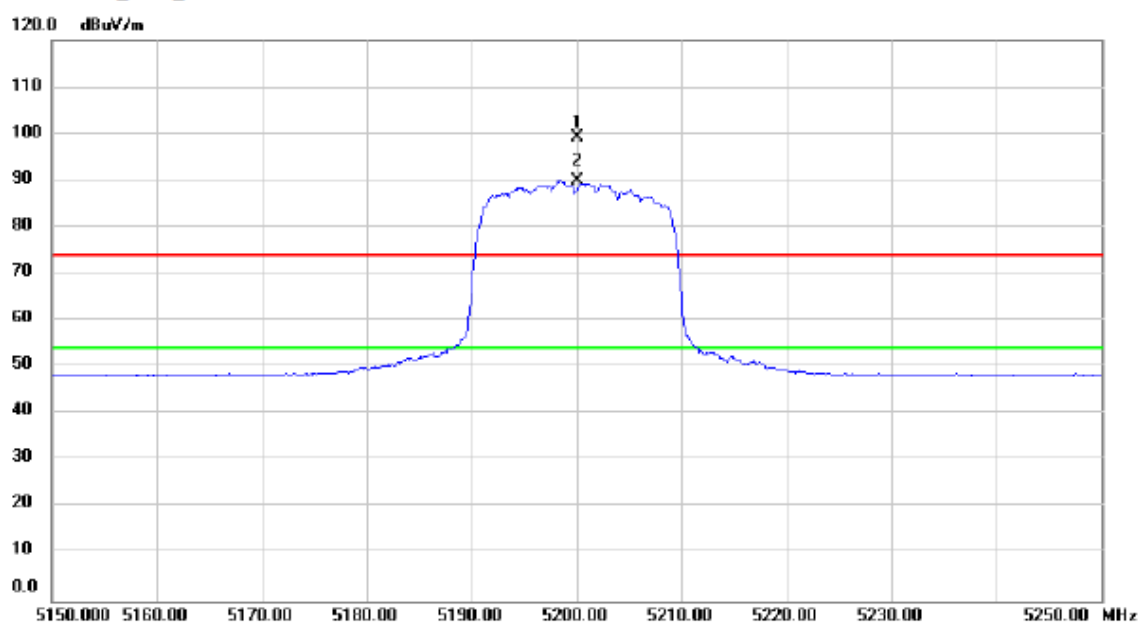
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5146.000	28.82	31.42	60.24	74.00	-13.76	peak	Band Edge
2		5146.000	16.68	31.42	48.10	54.00	-5.90	AVG	Band Edge
3	X	5180.000	61.60	31.44	93.04	74.00	19.04	peak	No Limit
4	*	5180.000	51.82	31.44	83.26	54.00	29.26	AVG	No Limit

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

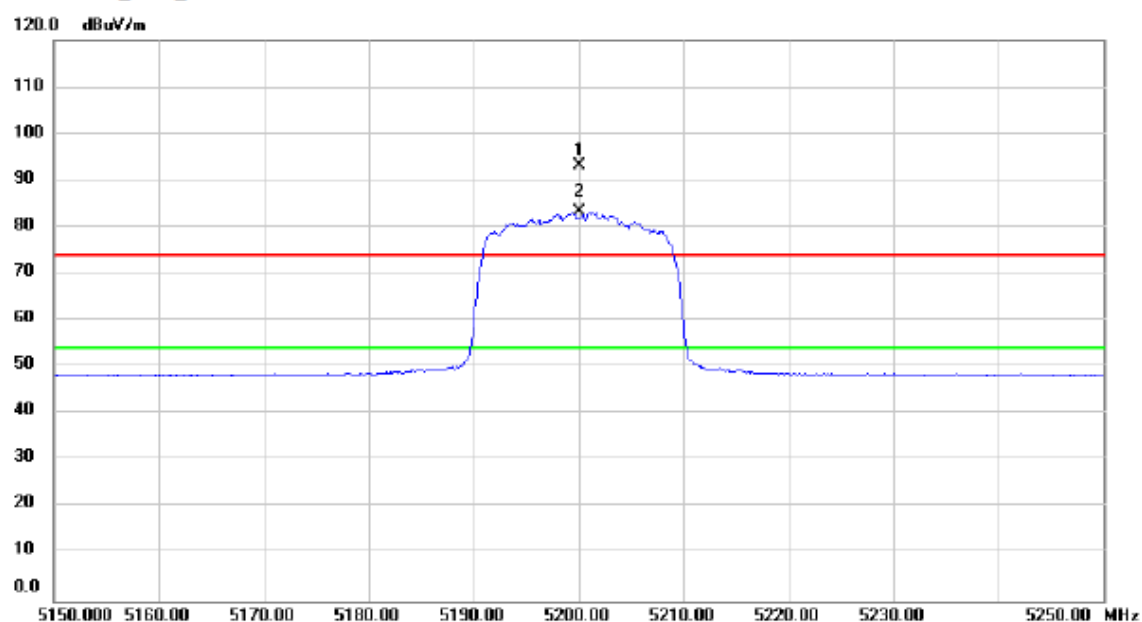
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5200.000	67.70	31.46	99.16	74.00	25.16	peak	No Limit
2	*	5200.000	58.43	31.46	89.89	54.00	35.89	AVG	No Limit

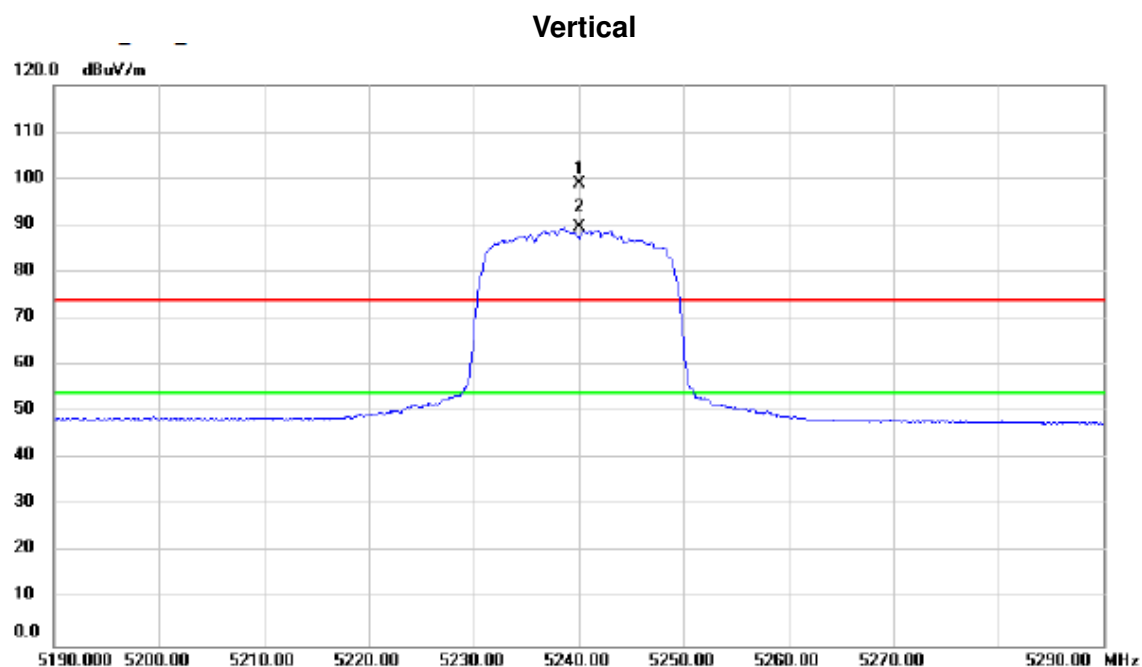
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5200.000	61.63	31.46	93.09	74.00	19.09	peak	No Limit
2	*	5200.000	51.70	31.46	83.16	54.00	29.16	AVG	No Limit

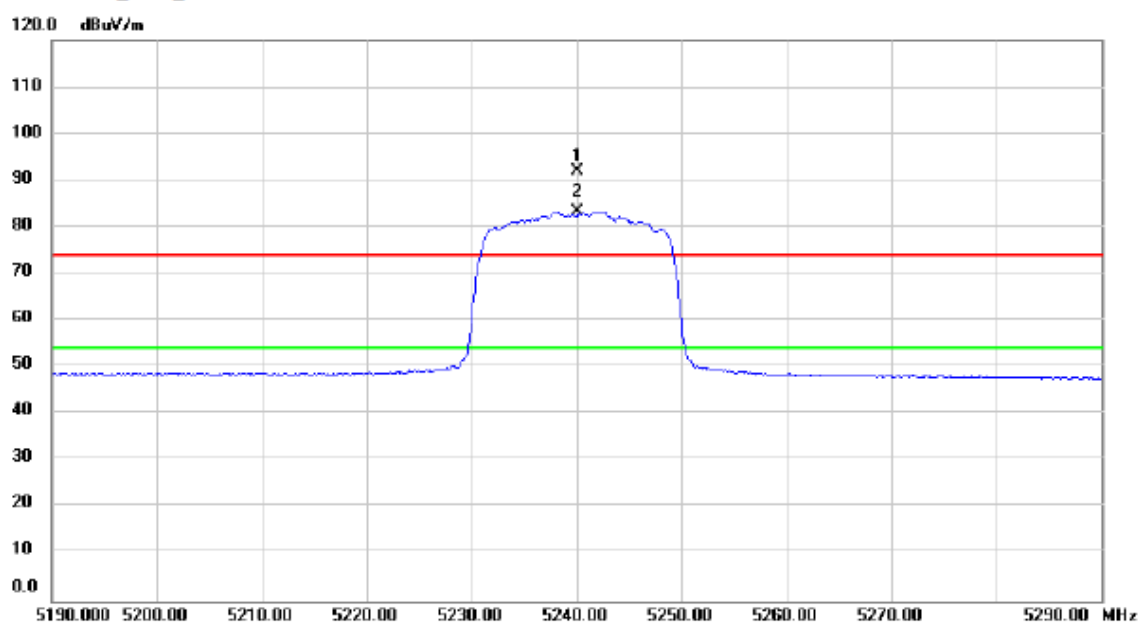
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5240.000	67.47	31.49	98.96	74.00	24.96	peak	No Limit
2	*	5240.000	58.11	31.49	89.60	54.00	35.60	AVG	No Limit

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

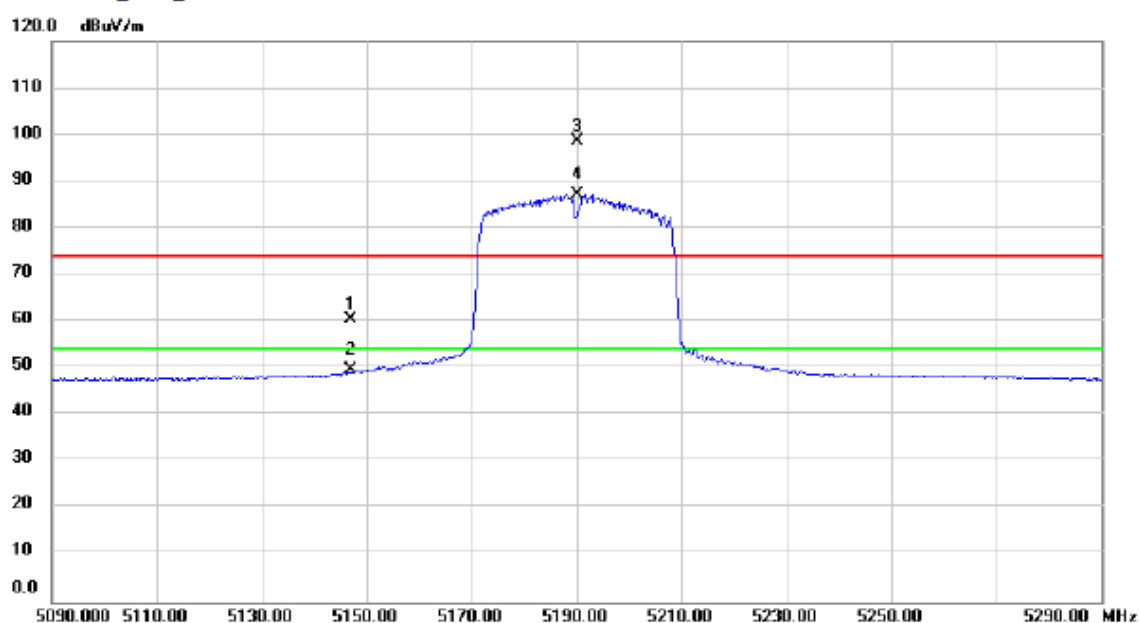
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5240.000	60.57	31.49	92.06	74.00	18.06	peak	No Limit
2	*	5240.000	51.80	31.49	83.29	54.00	29.29	AVG	No Limit

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

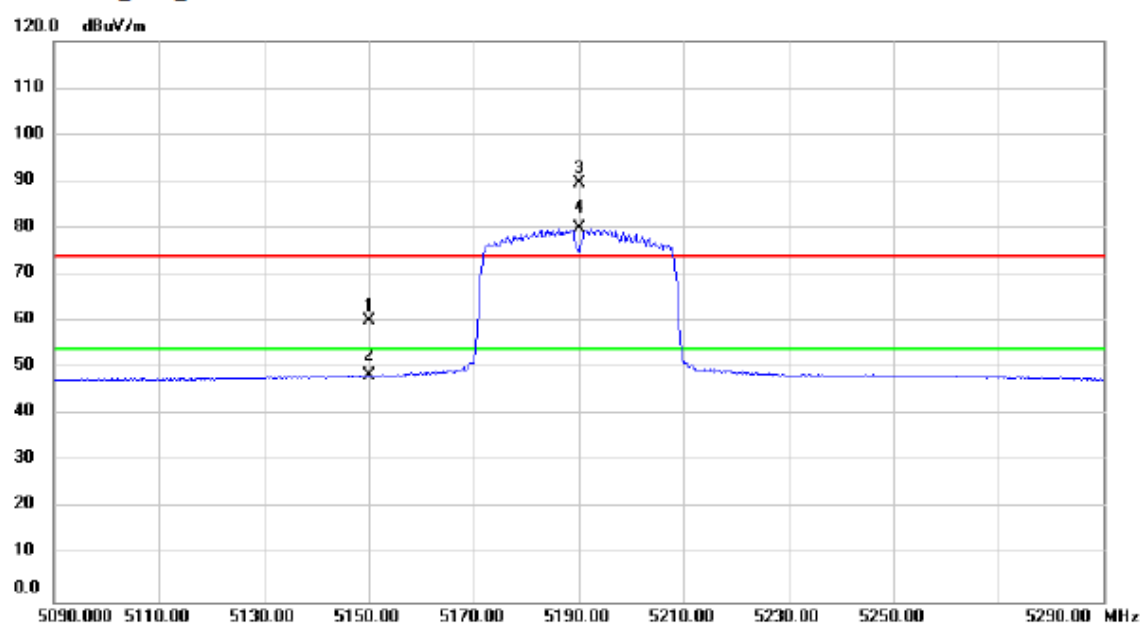
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5147.000	29.17	31.42	60.59	74.00	-13.41	peak	Band Edge
2		5147.000	18.38	31.42	49.80	54.00	-4.20	AVG	Band Edge
3	X	5190.000	67.07	31.45	98.52	74.00	24.52	peak	No Limit
4	*	5190.000	55.75	31.45	87.20	54.00	33.20	AVG	No Limit

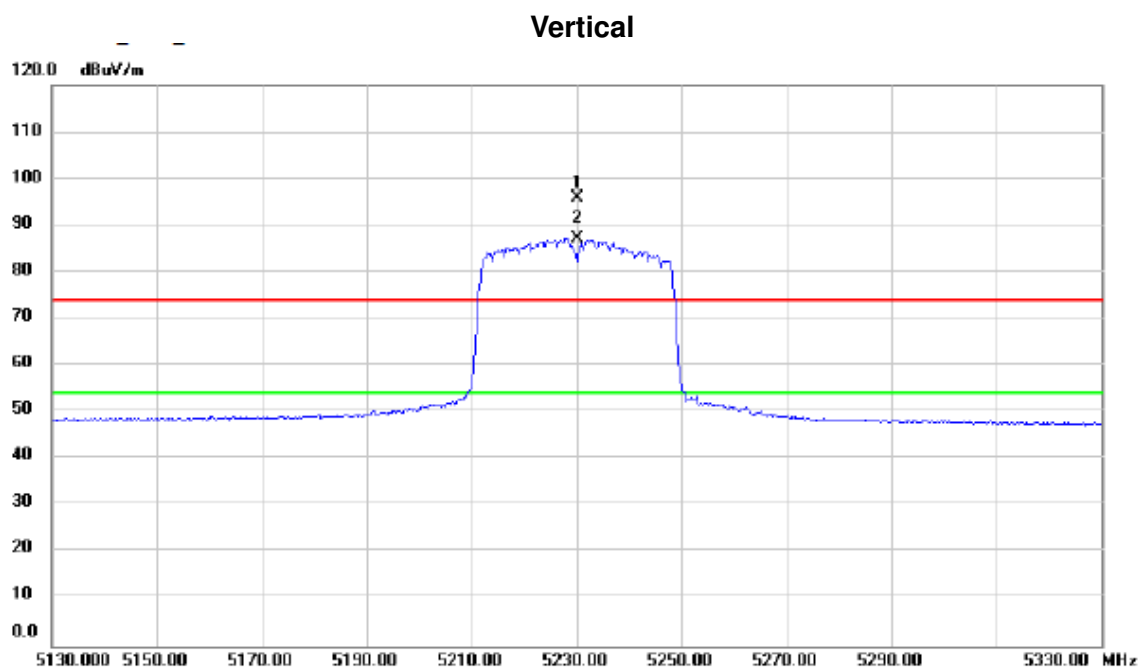
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5150.000	28.64	31.42	60.06	74.00	-13.94	peak	Band Edge
2		5150.000	17.11	31.42	48.53	54.00	-5.47	AVG	Band Edge
3	X	5190.000	58.17	31.45	89.62	74.00	15.62	peak	No Limit
4	*	5190.000	48.53	31.45	79.98	54.00	25.98	AVG	No Limit

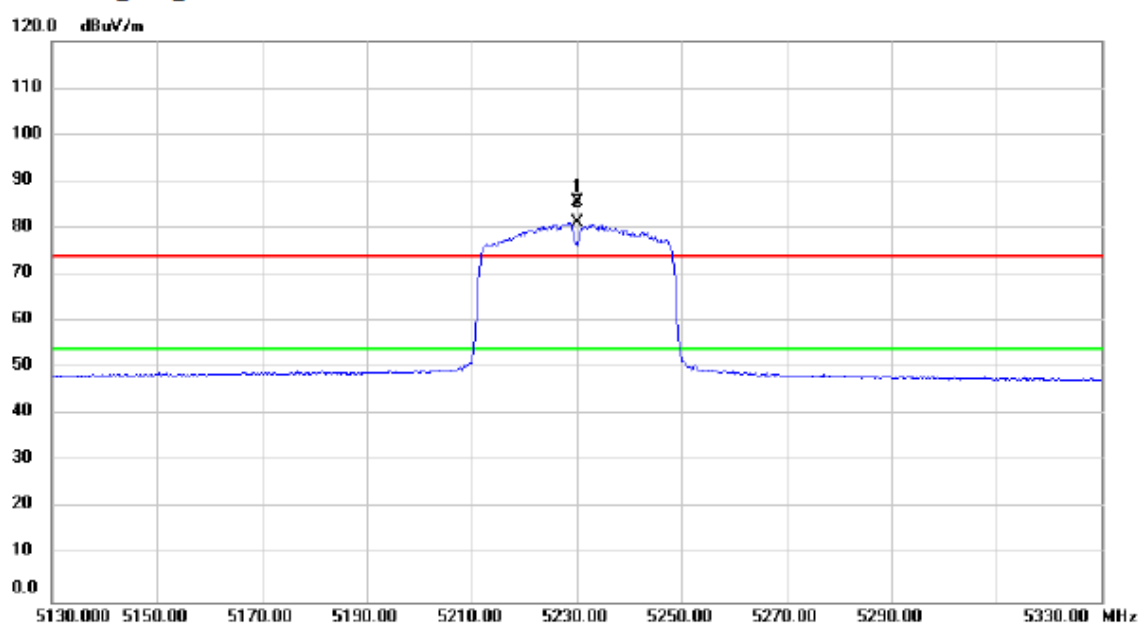
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5230.000	64.48	31.48	95.96	74.00	21.96	peak	No Limit
2	*	5230.000	55.69	31.48	87.17	54.00	33.17	AVG	No Limit

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

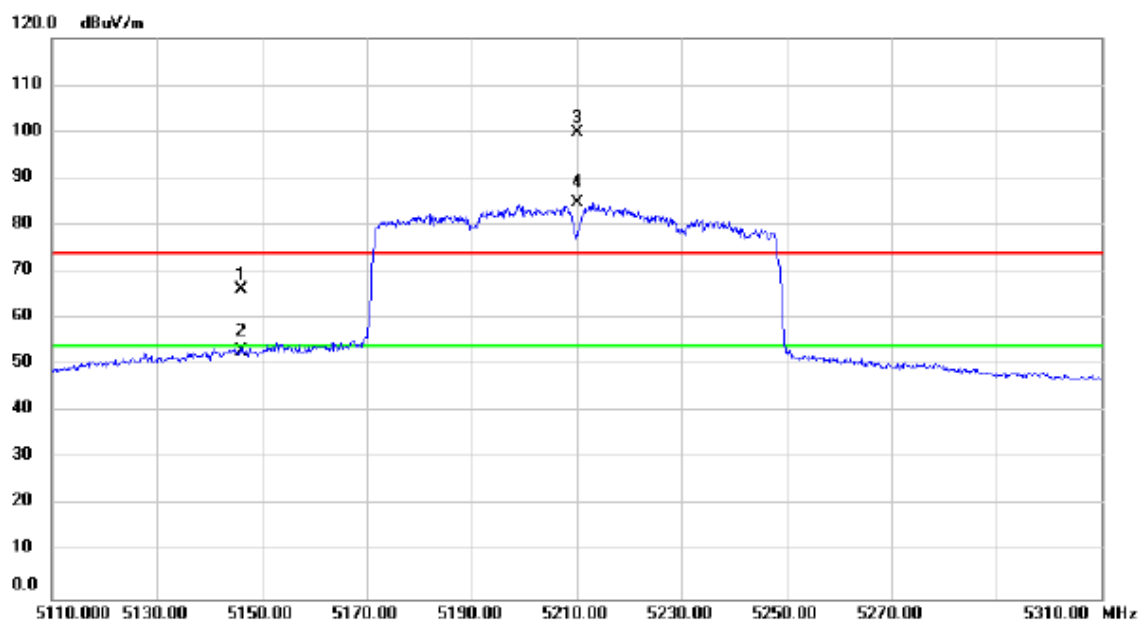
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5230.000	54.30	31.48	85.78	74.00	11.78	peak	No Limit
2	*	5230.000	49.75	31.48	81.23	54.00	27.23	AVG	No Limit

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

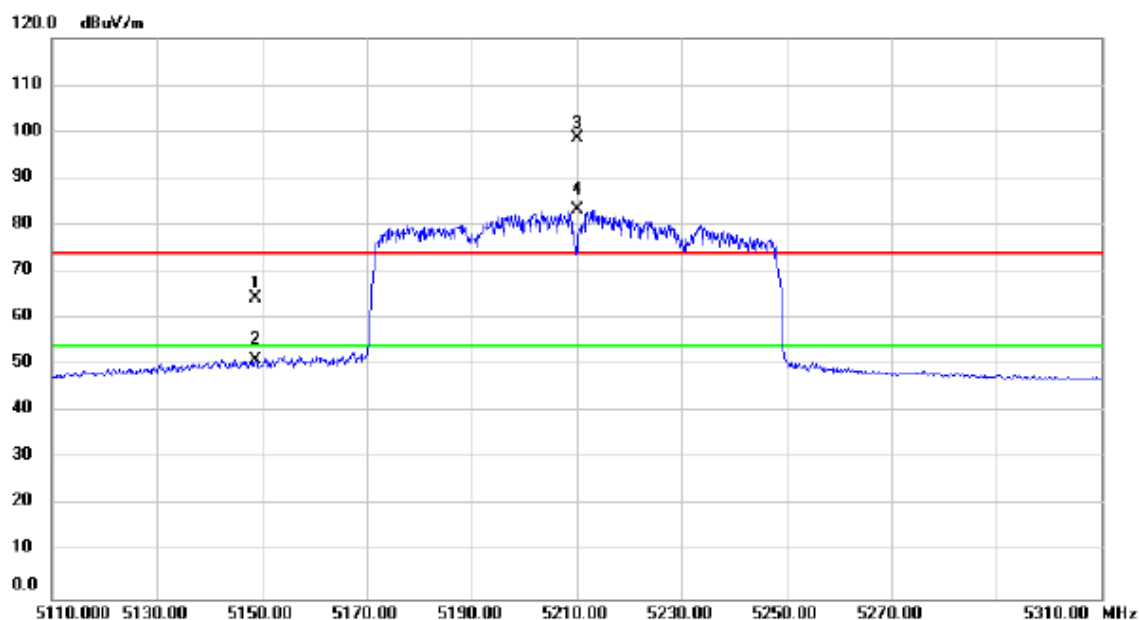
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5146.200	34.66	31.42	66.08	74.00	-7.92	peak	Band Edge
2		5146.200	21.43	31.42	52.85	54.00	-1.15	AVG	Band Edge
3	X	5210.000	68.41	31.47	99.88	74.00	25.88	peak	No Limit
4	*	5210.000	53.24	31.47	84.71	54.00	30.71	AVG	No Limit

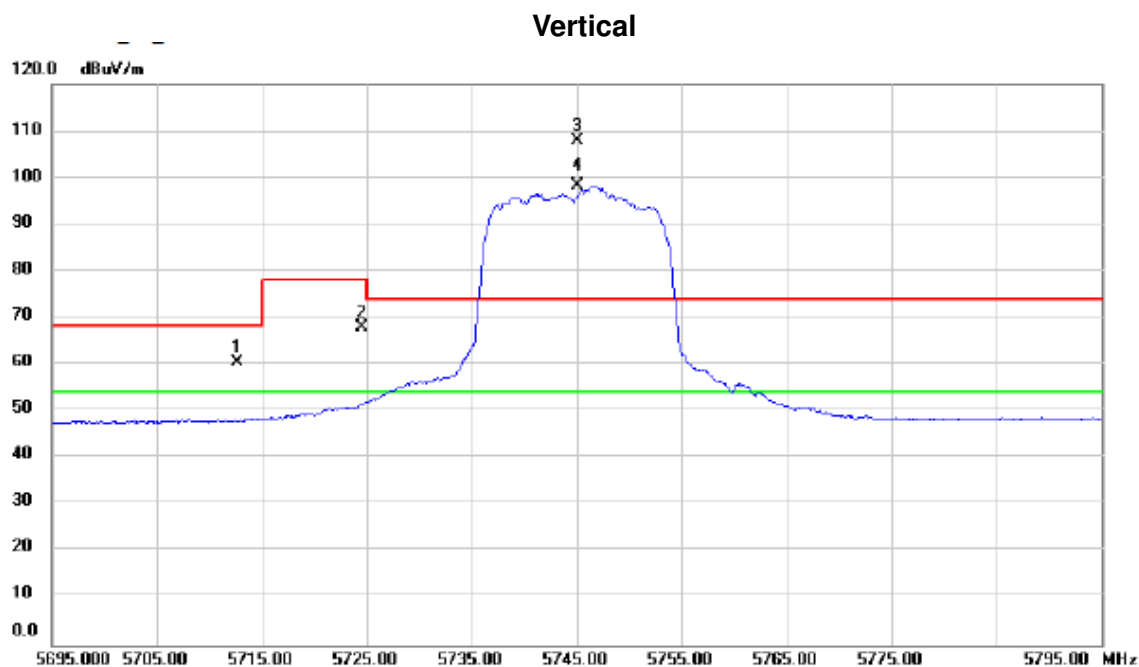
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.800	32.84	31.42	64.26	74.00	-9.74	peak	Band Edge
2		5148.800	19.74	31.42	51.16	54.00	-2.84	AVG	Band Edge
3	X	5210.000	67.22	31.47	98.69	74.00	24.69	peak	No Limit
4	*	5210.000	51.91	31.47	83.38	54.00	29.38	AVG	No Limit

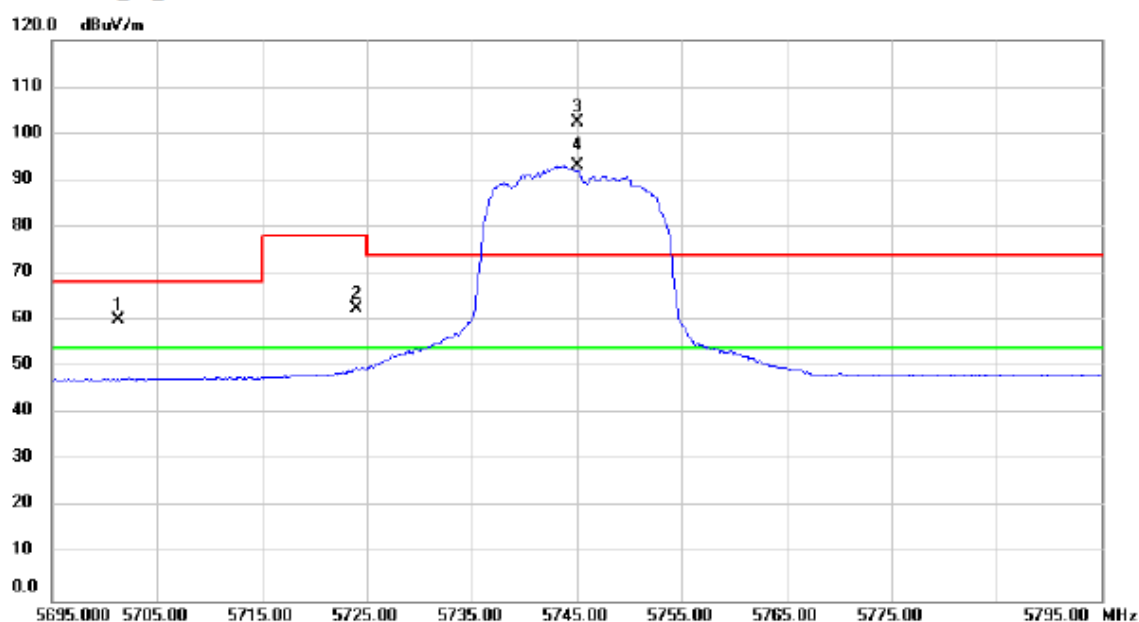
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5712.700	28.56	32.00	60.56	68.20	-7.64	peak	Band Edge
2		5724.480	35.95	32.01	67.96	78.20	-10.24	peak	Band Edge
3	X	5745.000	75.78	32.04	107.82	74.00	33.82	peak	No Limit
4	*	5745.000	66.11	32.04	98.15	54.00	44.15	AVG	No Limit

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

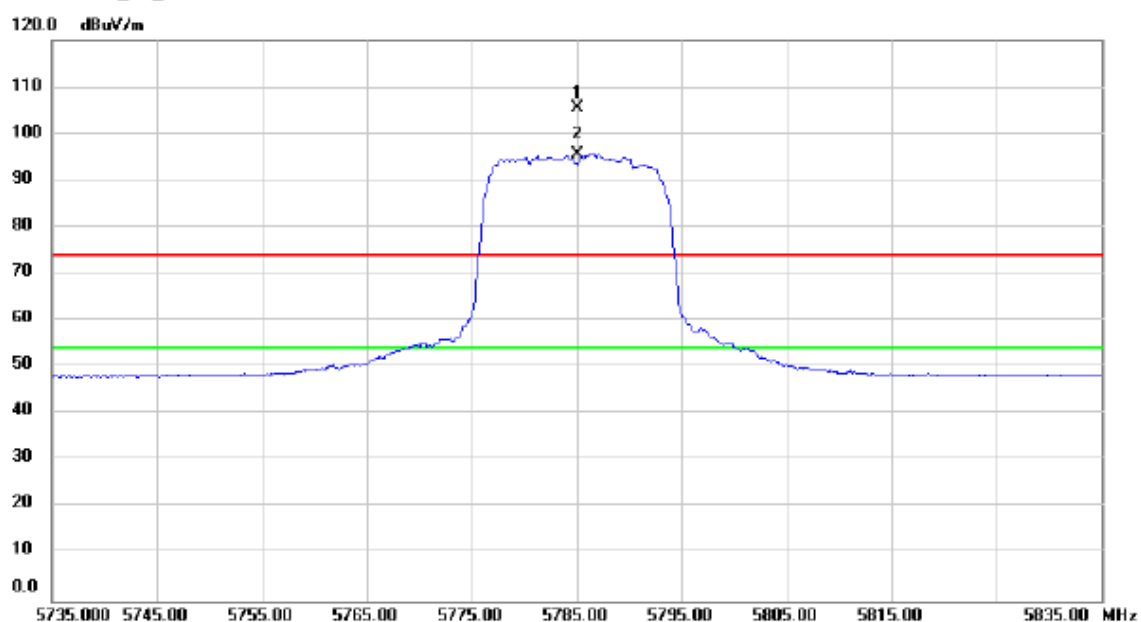
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5701.300	28.26	31.98	60.24	68.20	-7.96	peak	Band Edge
2		5724.050	30.61	32.01	62.62	78.20	-15.58	peak	Band Edge
3	X	5745.000	70.29	32.04	102.33	74.00	28.33	peak	No Limit
4	*	5745.000	61.15	32.04	93.19	54.00	39.19	AVG	No Limit

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

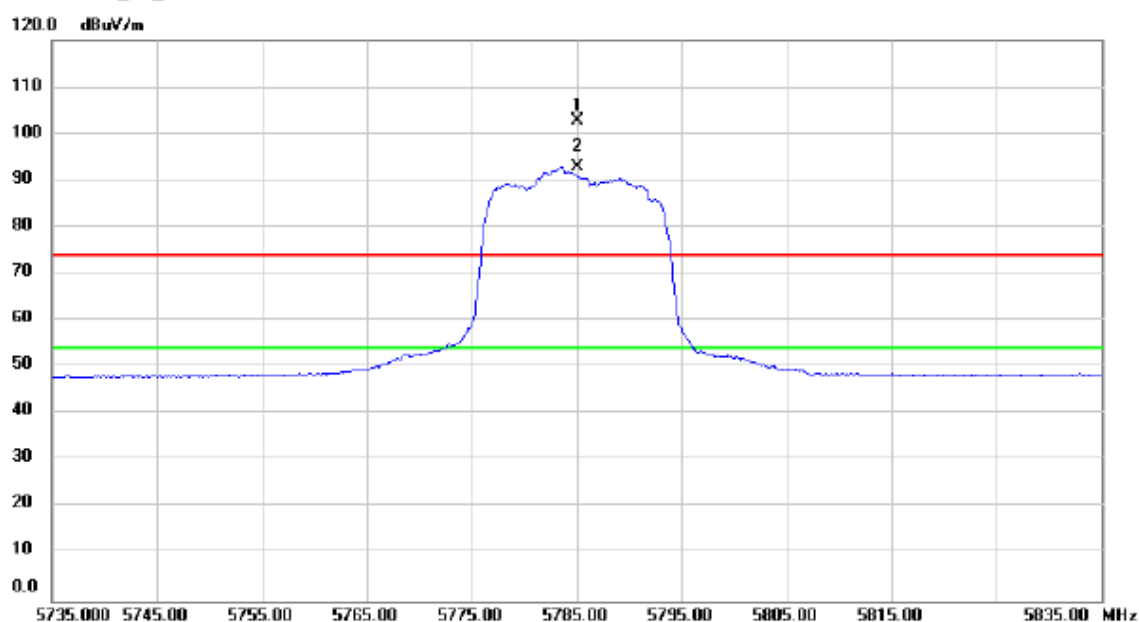
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5785.000	73.49	32.10	105.59	74.00	31.59	peak	No Limit
2	*	5785.000	63.59	32.10	95.69	54.00	41.69	AVG	No Limit

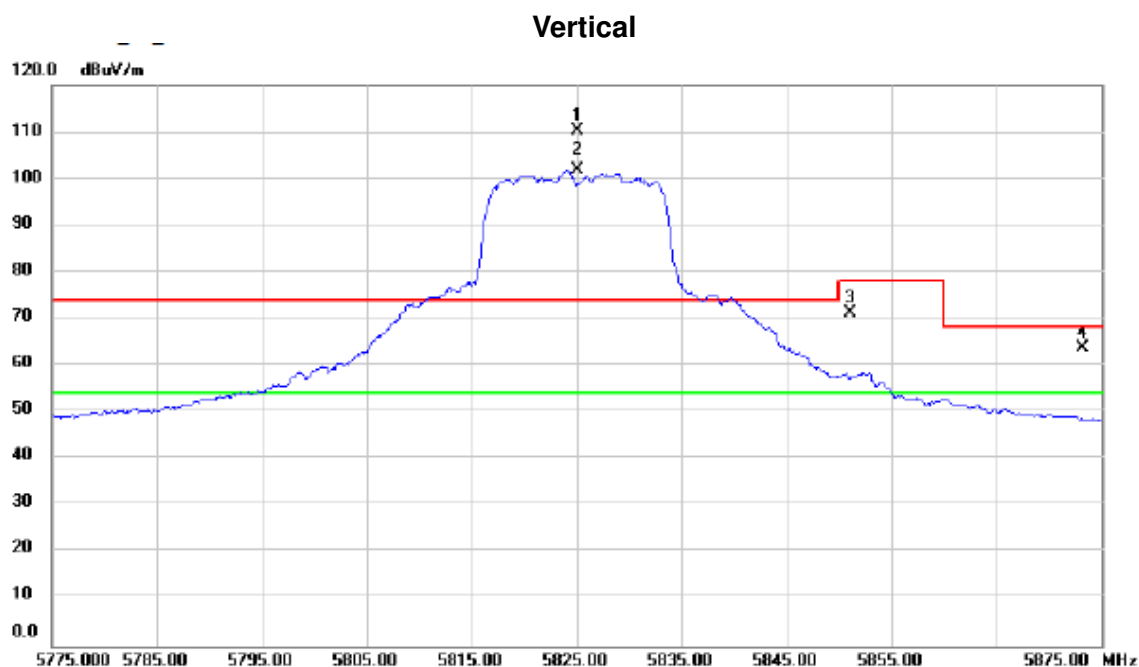
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

Horizontal



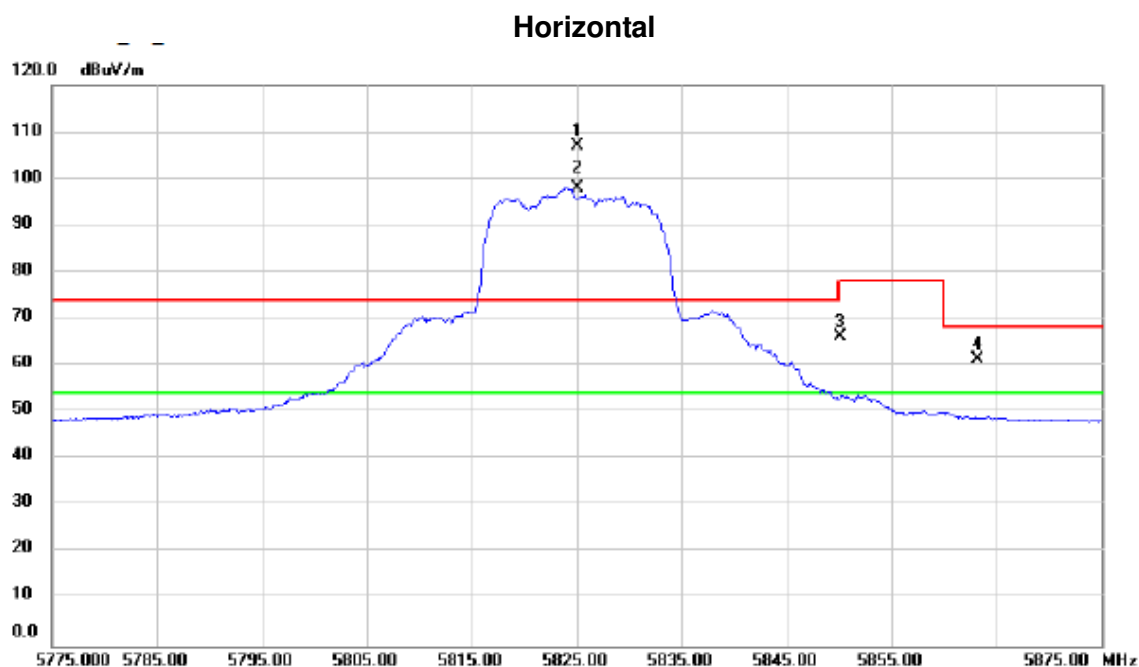
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5785.000	70.53	32.10	102.63	74.00	28.63	peak	No Limit
2	*	5785.000	60.82	32.10	92.92	54.00	38.92	AVG	No Limit

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



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5825.000	78.21	32.16	110.37	74.00	36.37	peak	No Limit
2	*	5825.000	69.66	32.16	101.82	54.00	47.82	AVG	No Limit
3		5851.070	39.17	32.19	71.36	78.20	-6.84	peak	Band Edge
4		5873.260	31.67	32.22	63.89	68.20	-4.31	peak	Band Edge

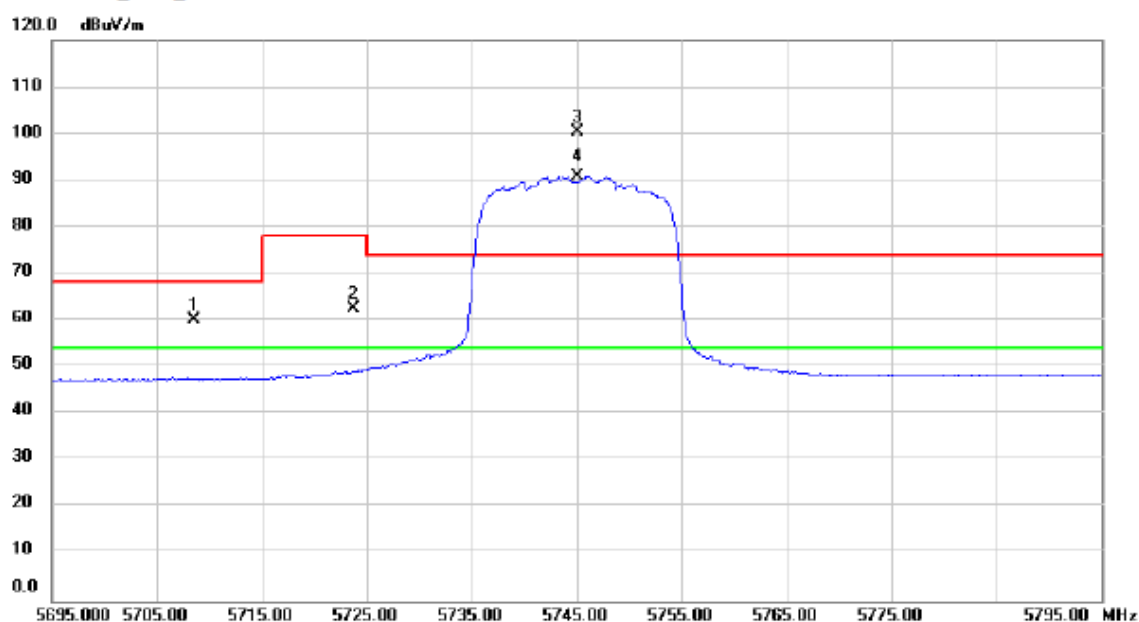
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5825.000	74.74	32.16	106.90	74.00	32.90	peak	No Limit
2	*	5825.000	65.74	32.16	97.90	54.00	43.90	AVG	No Limit
3		5850.170	34.09	32.19	66.28	78.20	-11.92	peak	Band Edge
4		5863.165	29.18	32.21	61.39	68.20	-6.81	peak	Band Edge

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

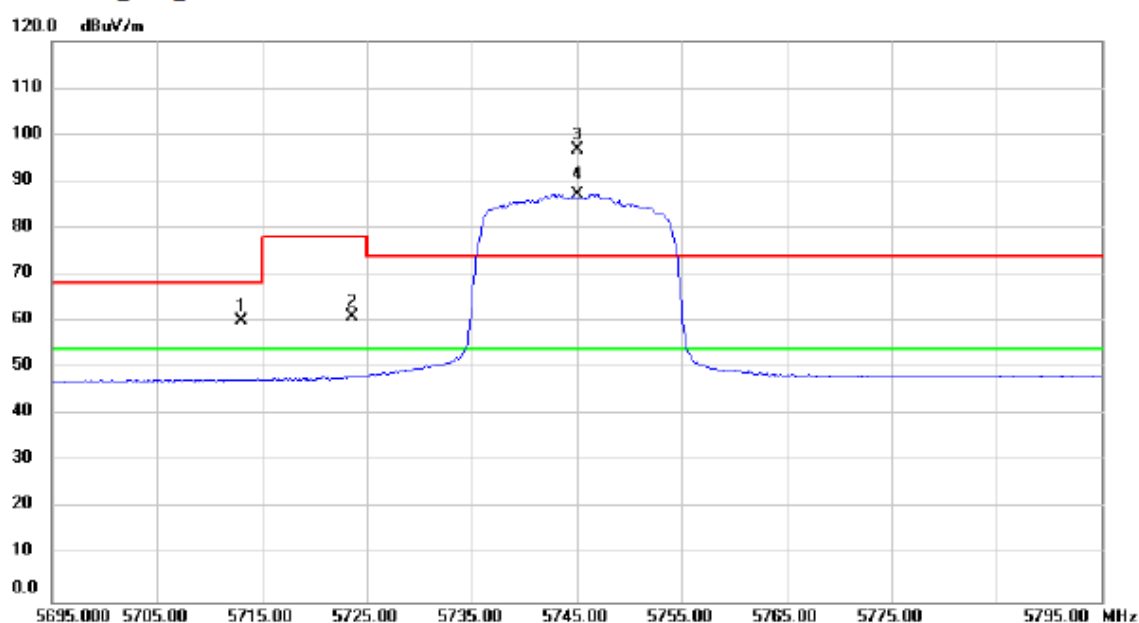
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5708.540	28.04	31.99	60.03	68.20	-8.17	peak	Band Edge
2		5723.770	30.43	32.01	62.44	78.20	-15.76	peak	Band Edge
3	X	5745.000	68.45	32.04	100.49	74.00	26.49	peak	No Limit
4	*	5745.000	58.77	32.04	90.81	54.00	36.81	AVG	No Limit

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

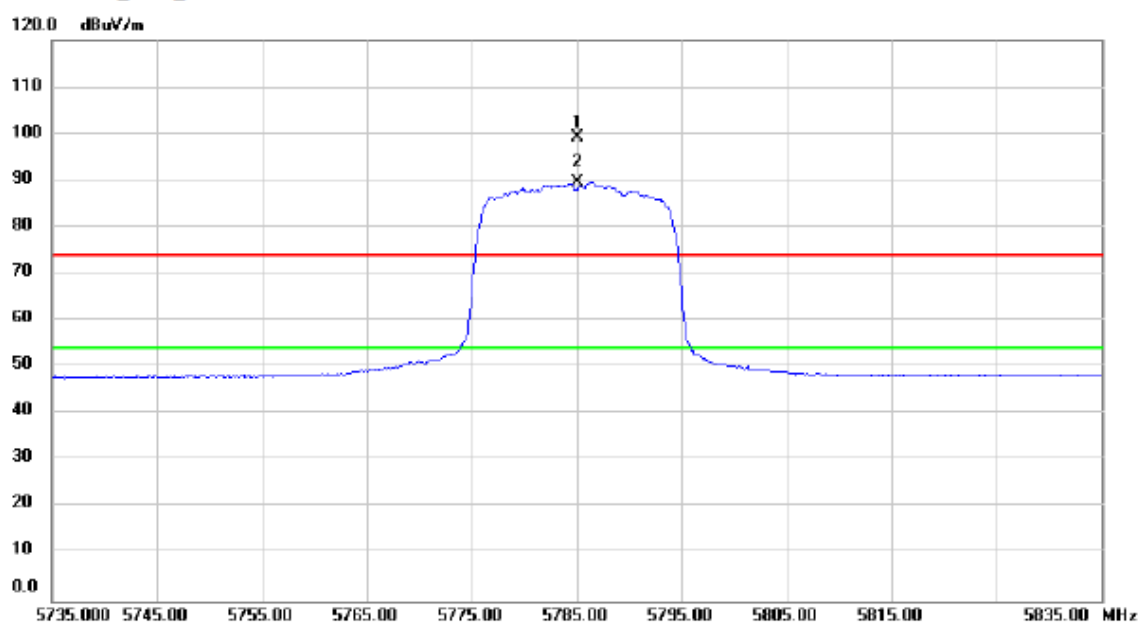
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5713.100	28.08	32.00	60.08	68.20	-8.12	peak	Band Edge
2		5723.660	28.96	32.01	60.97	78.20	-17.23	peak	Band Edge
3	X	5745.000	64.75	32.04	96.79	74.00	22.79	peak	No Limit
4	*	5745.000	55.23	32.04	87.27	54.00	33.27	AVG	No Limit

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

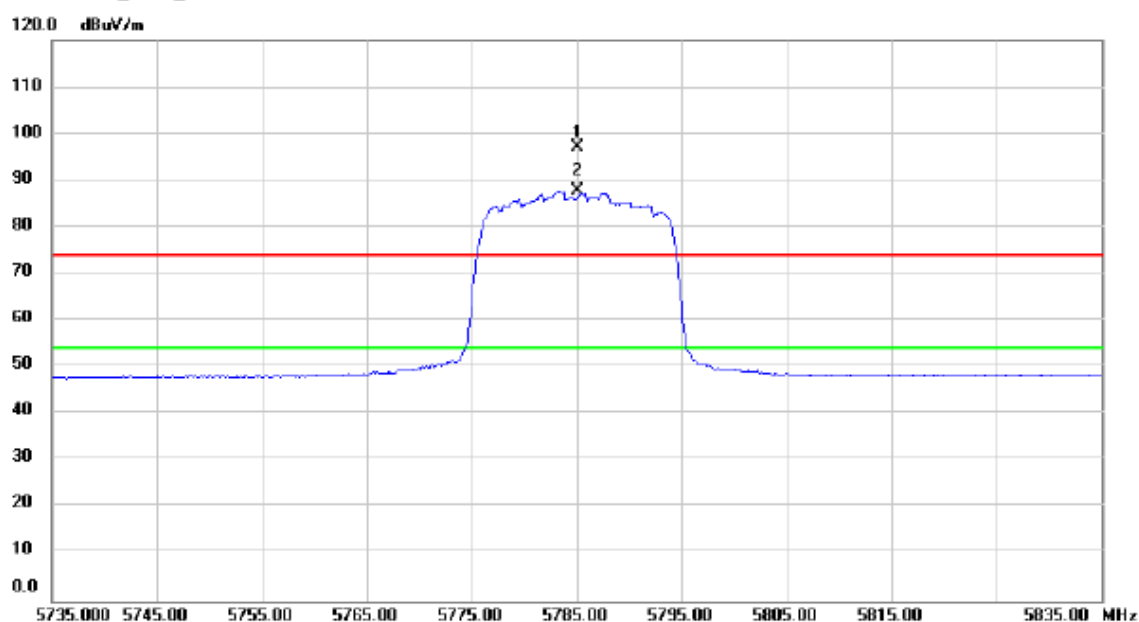
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5785.000	66.98	32.10	99.08	74.00	25.08	peak	No Limit
2	*	5785.000	57.47	32.10	89.57	54.00	35.57	AVG	No Limit

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

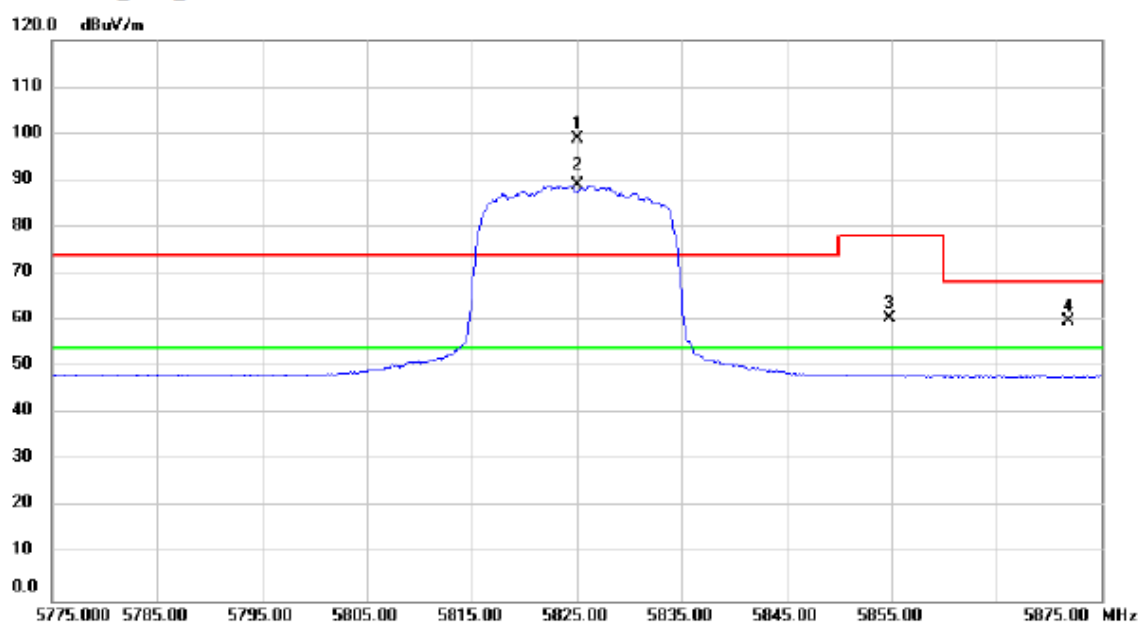
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5785.000	64.93	32.10	97.03	74.00	23.03	peak	No Limit
2	*	5785.000	55.61	32.10	87.71	54.00	33.71	AVG	No Limit

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

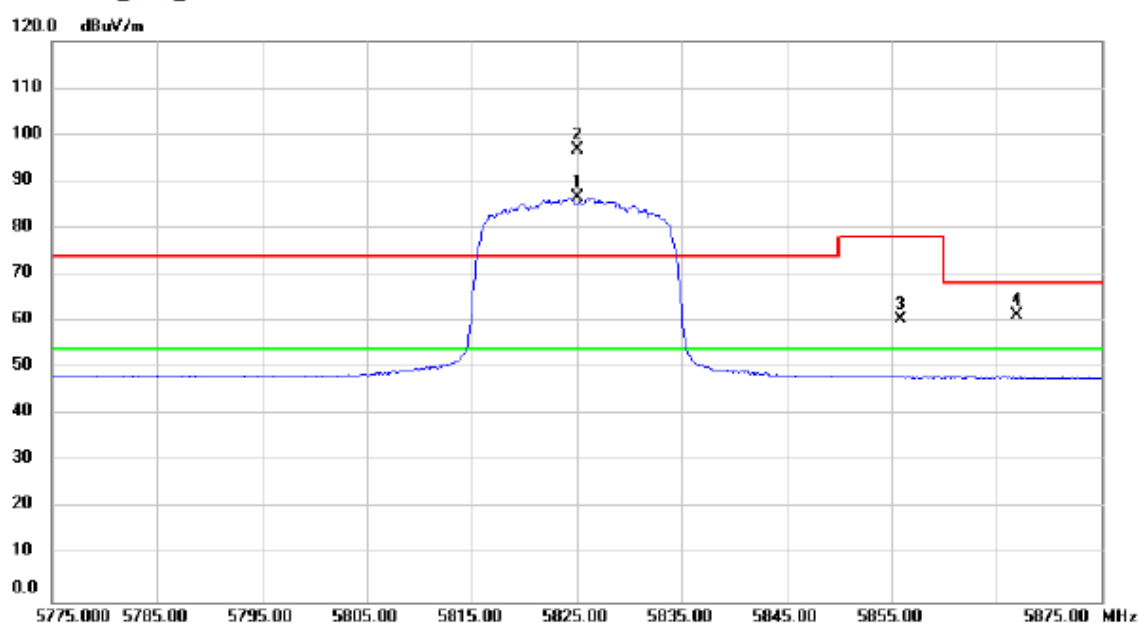
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5825.000	66.68	32.16	98.84	74.00	24.84	peak	No Limit
2	*	5825.000	56.77	32.16	88.93	54.00	34.93	AVG	No Limit
3		5854.810	28.24	32.20	60.44	78.20	-17.76	peak	Band Edge
4		5871.880	27.73	32.22	59.95	68.20	-8.25	peak	Band Edge

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

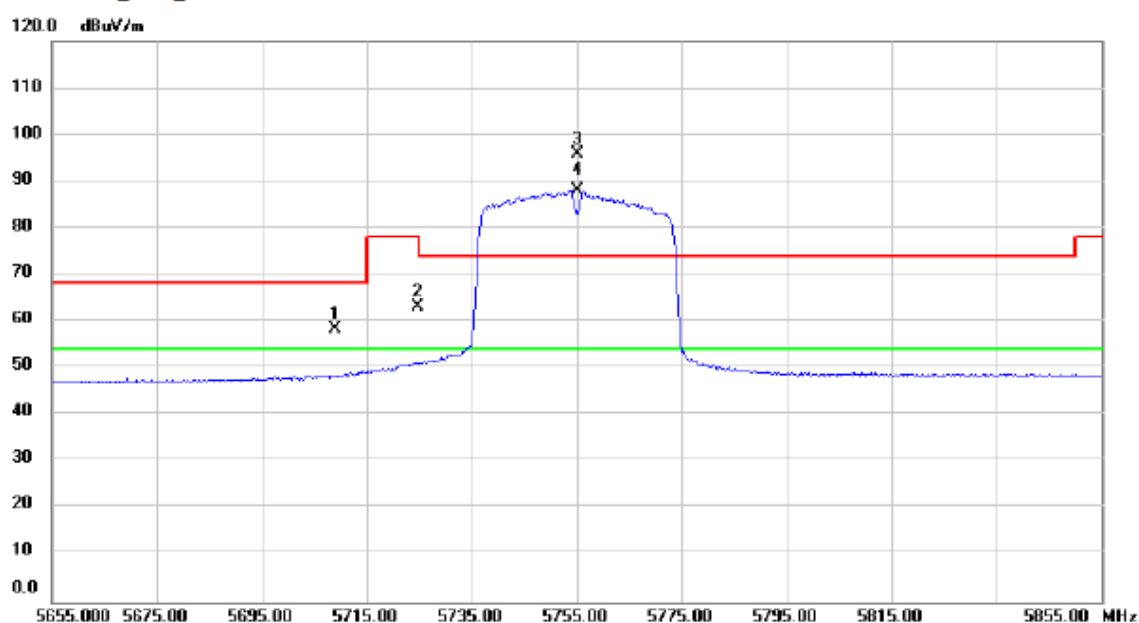
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5825.000	54.37	32.16	86.53	74.00	12.53	peak	No Limit
2	*	5825.000	64.56	32.16	96.72	74.00	22.72	peak	No Limit
3		5855.920	28.16	32.20	60.36	78.20	-17.84	peak	Band Edge
4		5866.870	29.04	32.21	61.25	68.20	-6.95	peak	Band Edge

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

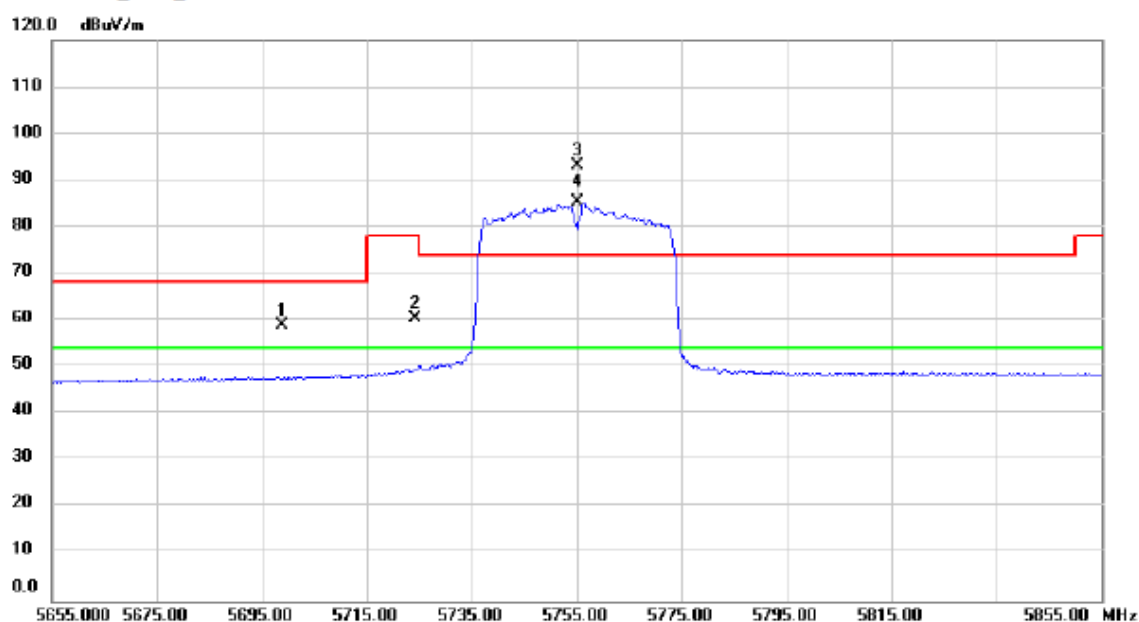
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5709.120	26.45	31.99	58.44	68.20	-9.76	peak	Band Edge
2		5724.700	31.21	32.01	63.22	78.20	-14.98	peak	Band Edge
3	X	5755.000	63.75	32.06	95.81	74.00	21.81	peak	No Limit
4	*	5755.000	55.96	32.06	88.02	54.00	34.02	AVG	No Limit

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

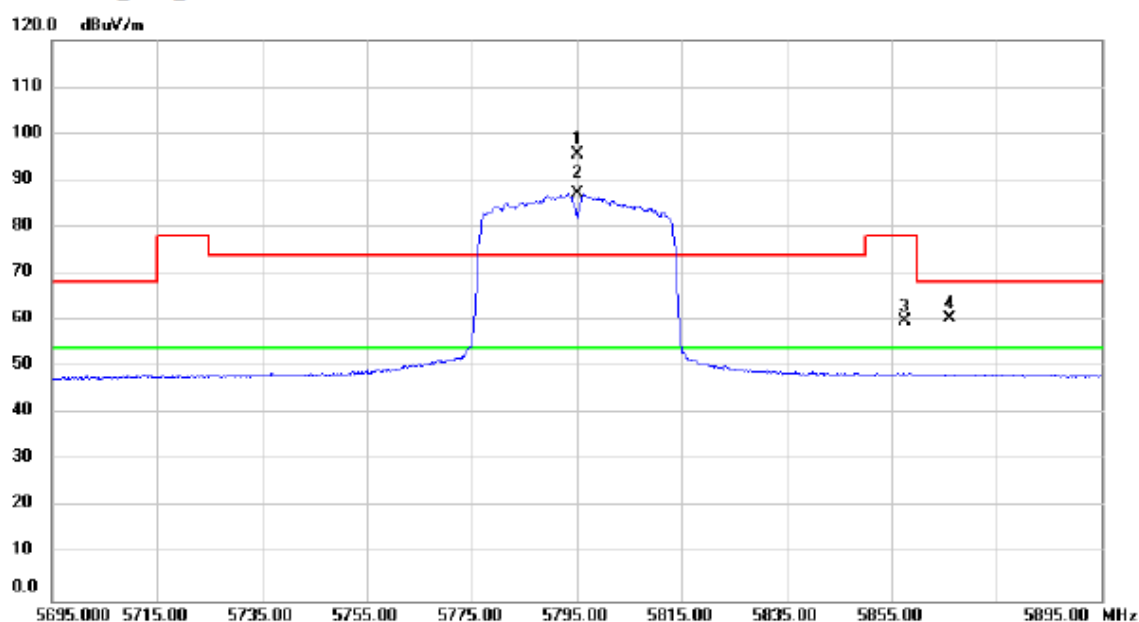
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5698.800	27.06	31.98	59.04	68.20	-9.16	peak	Band Edge
2		5724.150	28.46	32.01	60.47	78.20	-17.73	peak	Band Edge
3	X	5755.000	60.95	32.06	93.01	74.00	19.01	peak	No Limit
4	*	5755.000	53.17	32.06	85.23	54.00	31.23	AVG	No Limit

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

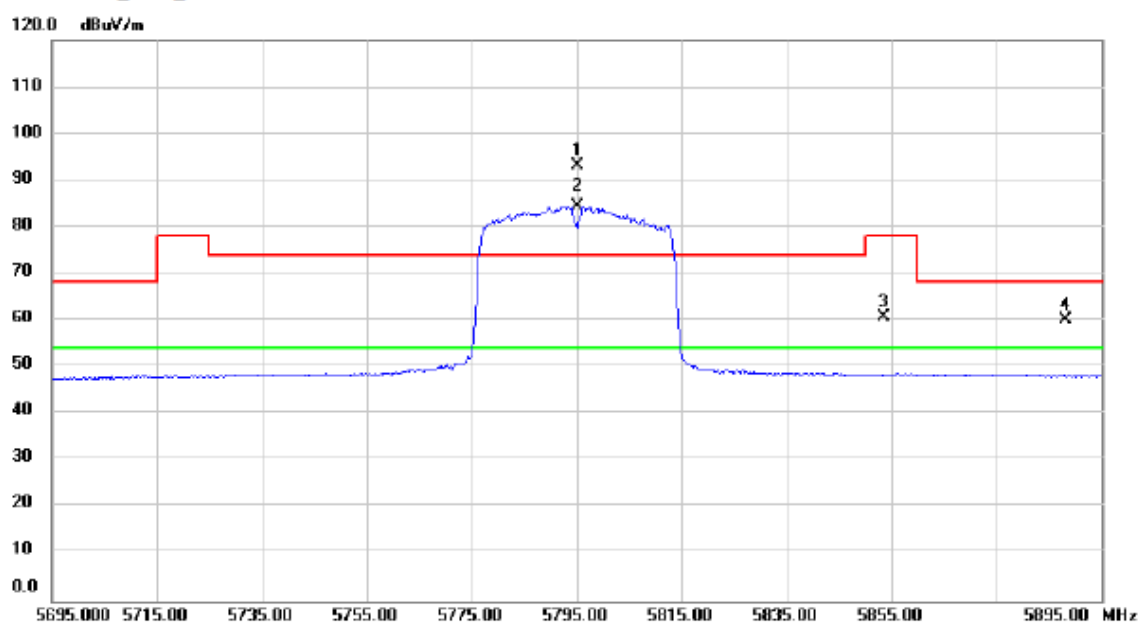
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5795.000	63.29	32.11	95.40	74.00	21.40	peak	No Limit
2	*	5795.000	55.08	32.11	87.19	54.00	33.19	AVG	No Limit
3		5857.540	27.68	32.20	59.88	78.20	-18.32	peak	Band Edge
4		5865.985	28.36	32.21	60.57	68.20	-7.63	peak	Band Edge

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

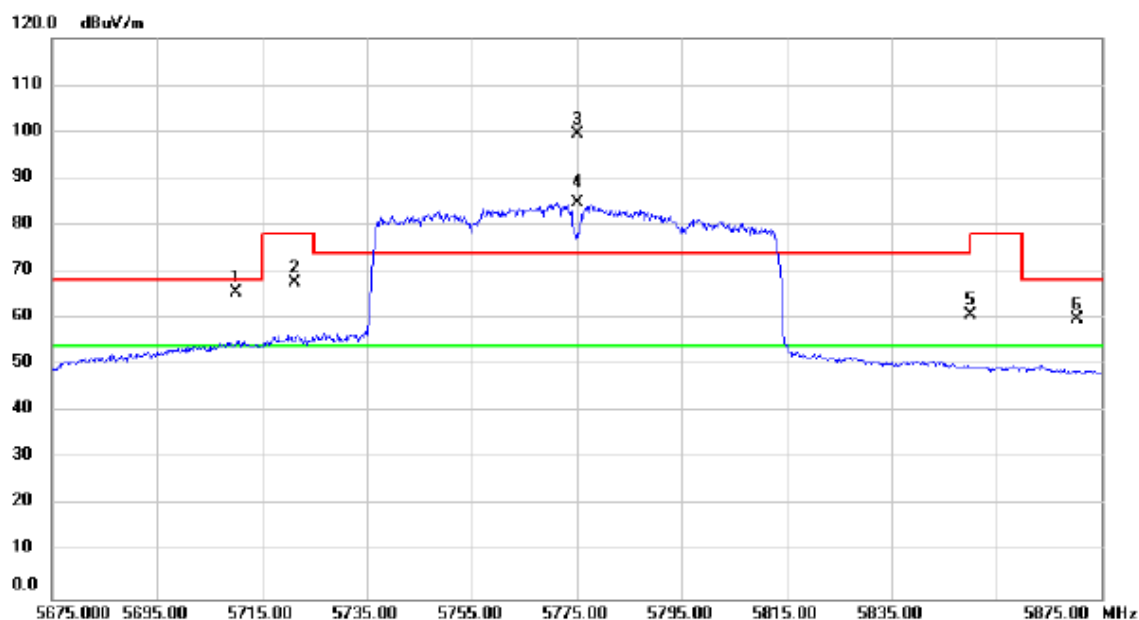
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5795.000	61.05	32.11	93.16	74.00	19.16	peak	No Limit
2	*	5795.000	52.36	32.11	84.47	54.00	30.47	AVG	No Limit
3		5853.510	28.50	32.19	60.69	78.20	-17.51	peak	Band Edge
4		5888.105	27.84	32.24	60.08	68.20	-8.12	peak	Band Edge

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

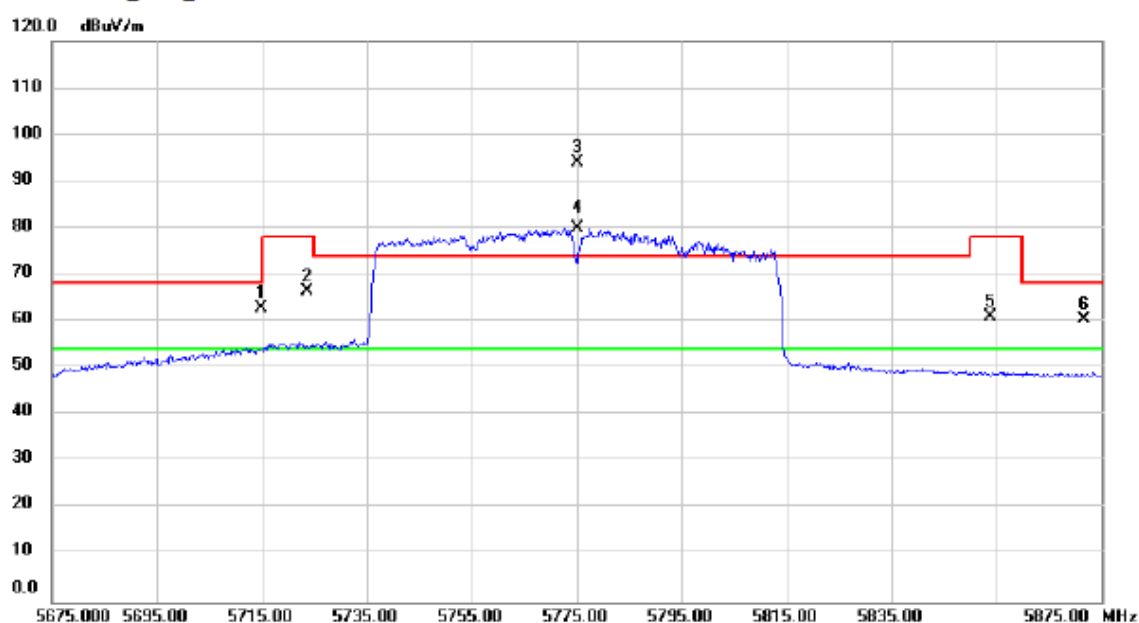
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5709.960	33.56	31.99	65.55	68.20	-2.65	peak	Band Edge
2		5721.170	35.52	32.01	67.53	78.20	-10.67	peak	Band Edge
3	X	5775.000	67.36	32.09	99.45	74.00	25.45	peak	No Limit
4	*	5775.000	52.80	32.09	84.89	54.00	30.89	AVG	No Limit
5		5850.150	28.58	32.19	60.77	78.20	-17.43	peak	Band Edge
6		5870.350	27.61	32.22	59.83	68.20	-8.37	peak	Band Edge

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

Horizontal

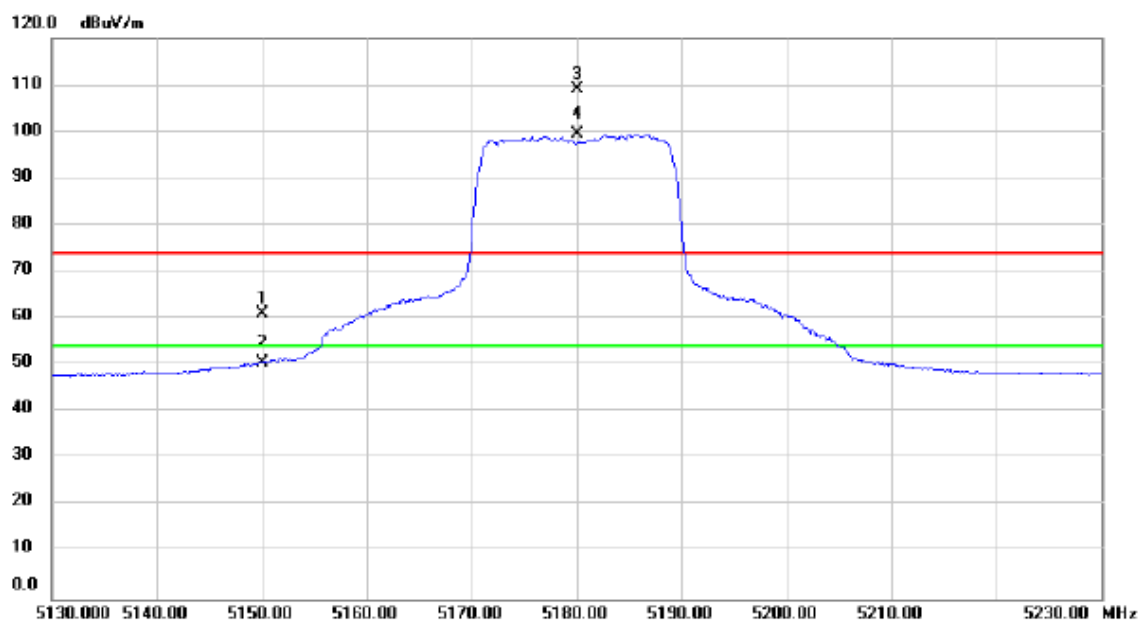


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5714.840	30.70	32.00	62.70	68.20	-5.50	peak	Band Edge
2		5723.780	34.36	32.01	66.37	78.20	-11.83	peak	Band Edge
3	X	5775.000	62.08	32.09	94.17	74.00	20.17	peak	No Limit
4	*	5775.000	47.87	32.09	79.96	54.00	25.96	AVG	No Limit
5		5853.810	28.85	32.20	61.05	78.20	-17.15	peak	Band Edge
6		5871.550	28.31	32.22	60.53	68.20	-7.67	peak	Band Edge

Beamforming

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

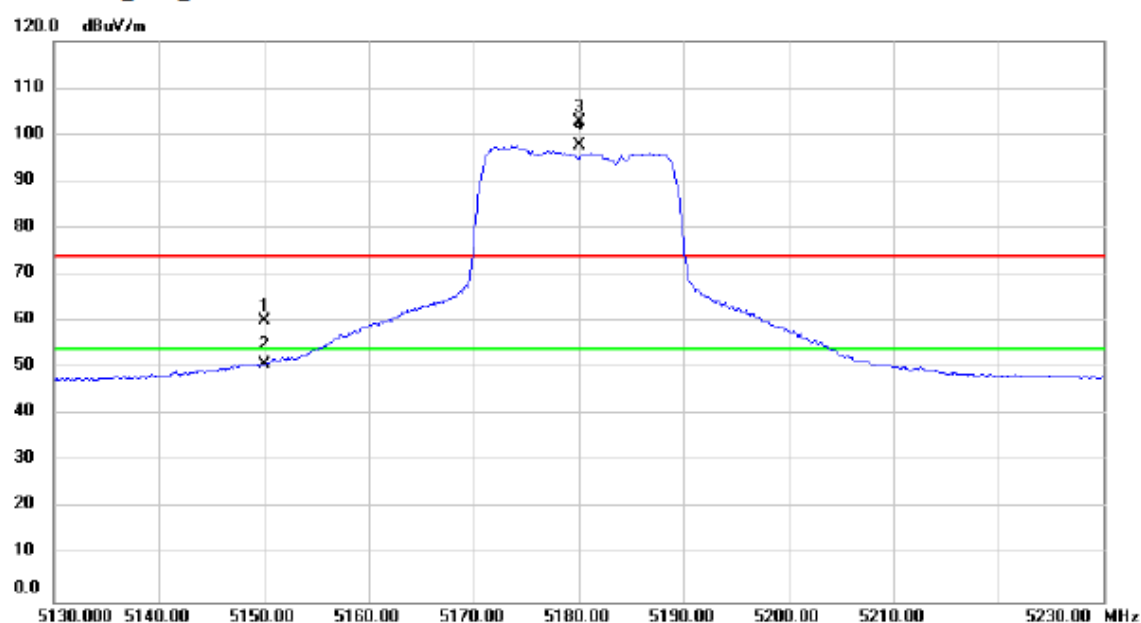
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	29.77	31.42	61.19	74.00	-12.81	peak	Band Edge
2		5150.000	19.03	31.42	50.45	54.00	-3.55	AVG	Band Edge
3	X	5180.000	77.63	31.44	109.07	74.00	35.07	peak	No Limit
4	*	5180.000	68.04	31.44	99.48	54.00	45.48	AVG	No Limit

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

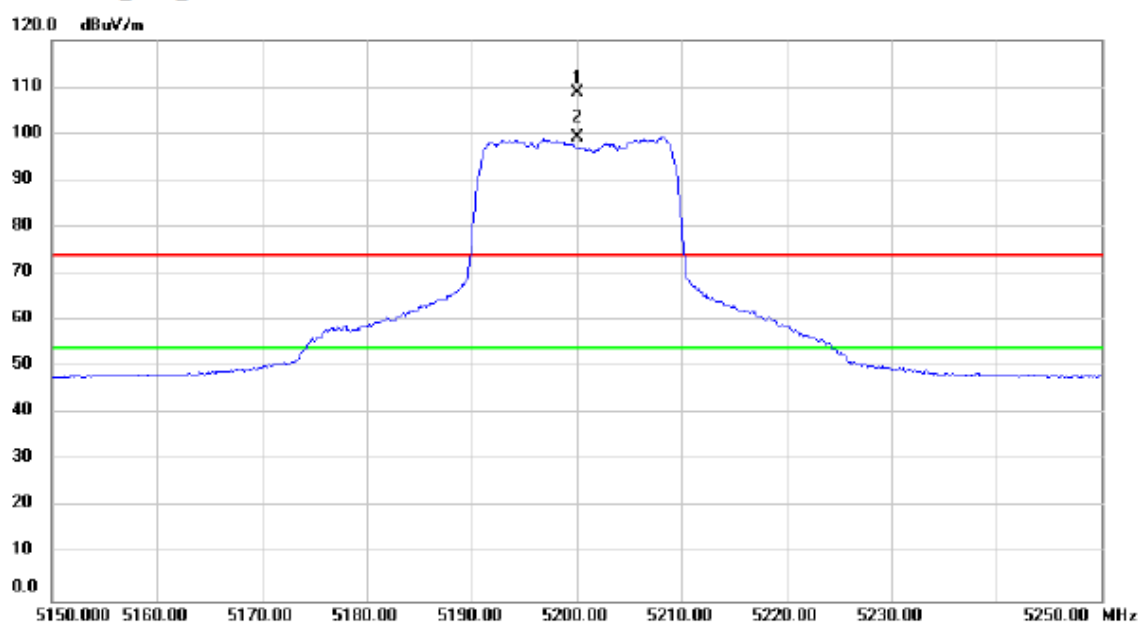
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5150.000	28.84	31.42	60.26	74.00	-13.74	peak	Band Edge
2		5150.000	19.55	31.42	50.97	54.00	-3.03	AVG	Band Edge
3	X	5180.000	71.30	31.44	102.74	74.00	28.74	peak	No Limit
4	*	5180.000	66.16	31.44	97.60	54.00	43.60	AVG	No Limit

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

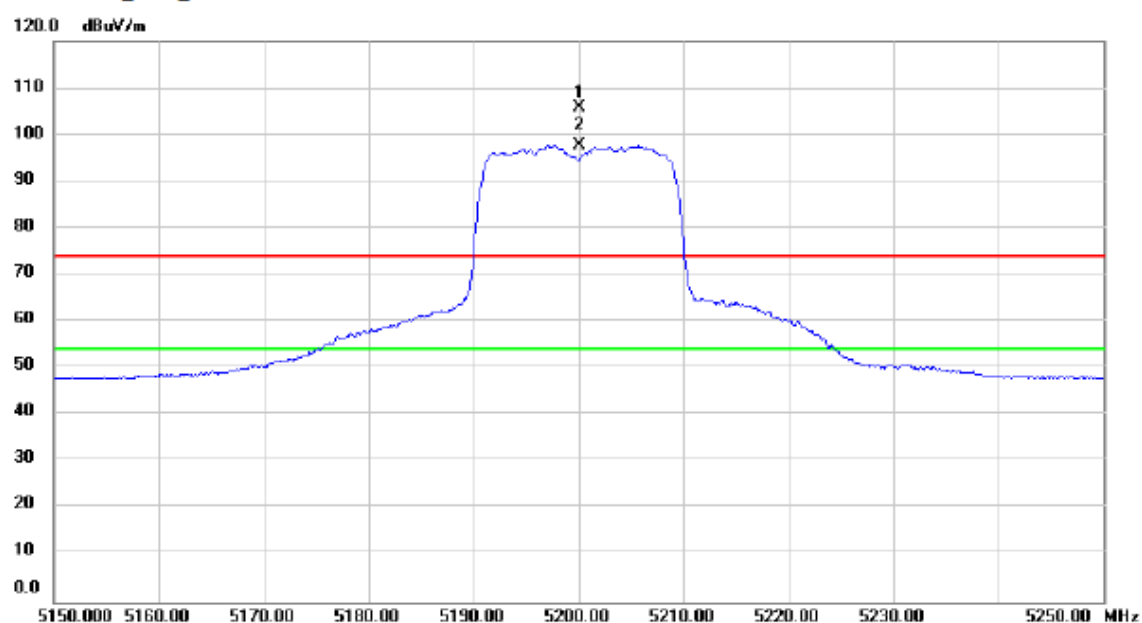
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5200.000	77.30	31.46	108.76	74.00	34.76	peak	No Limit
2	*	5200.000	67.76	31.46	99.22	54.00	45.22	AVG	No Limit

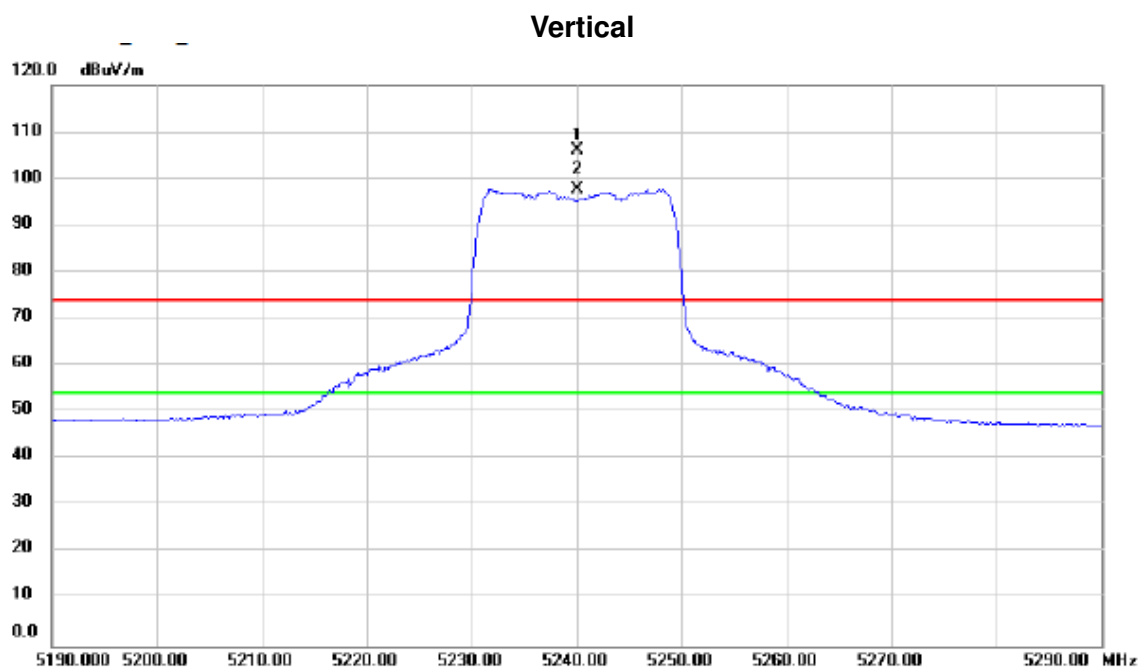
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5200.000	74.25	31.46	105.71	74.00	31.71	peak	No Limit
2	*	5200.000	66.14	31.46	97.60	54.00	43.60	AVG	No Limit

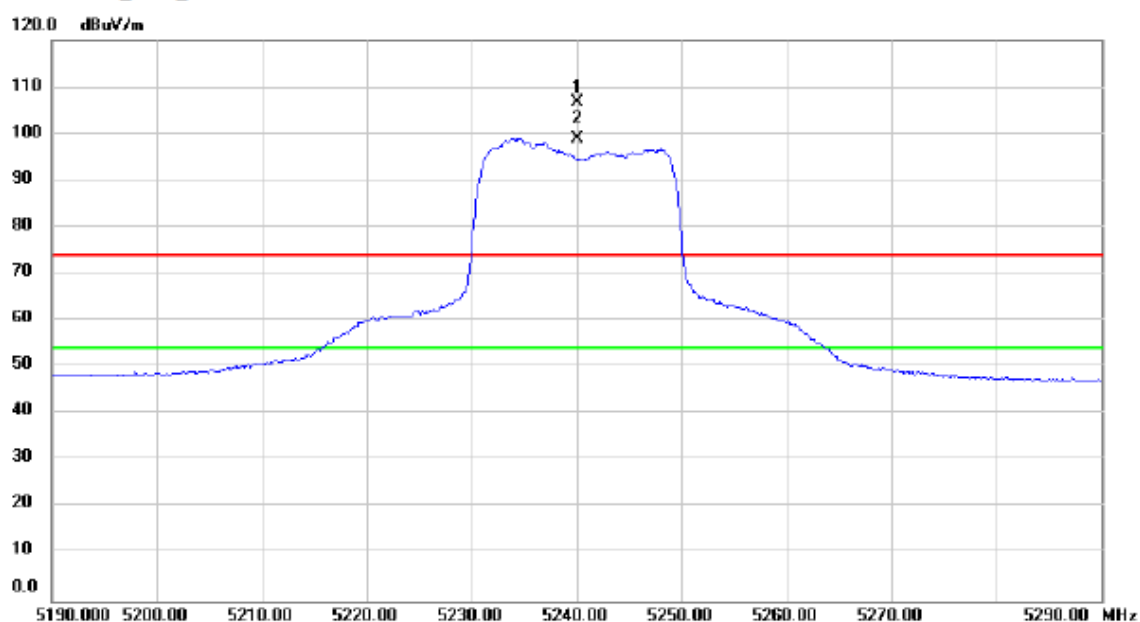
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5240.000	74.50	31.49	105.99	74.00	31.99	peak	No Limit
2	*	5240.000	66.21	31.49	97.70	54.00	43.70	AVG	No Limit

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

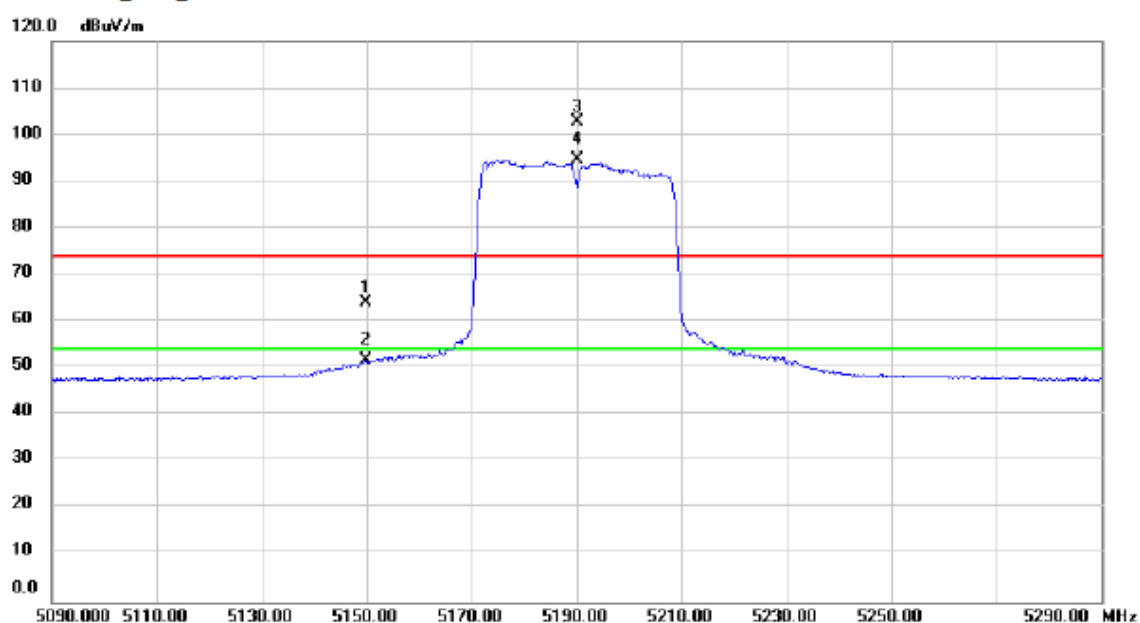
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5240.000	75.04	31.49	106.53	74.00	32.53	peak	No Limit
2	*	5240.000	67.40	31.49	98.89	54.00	44.89	AVG	No Limit

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

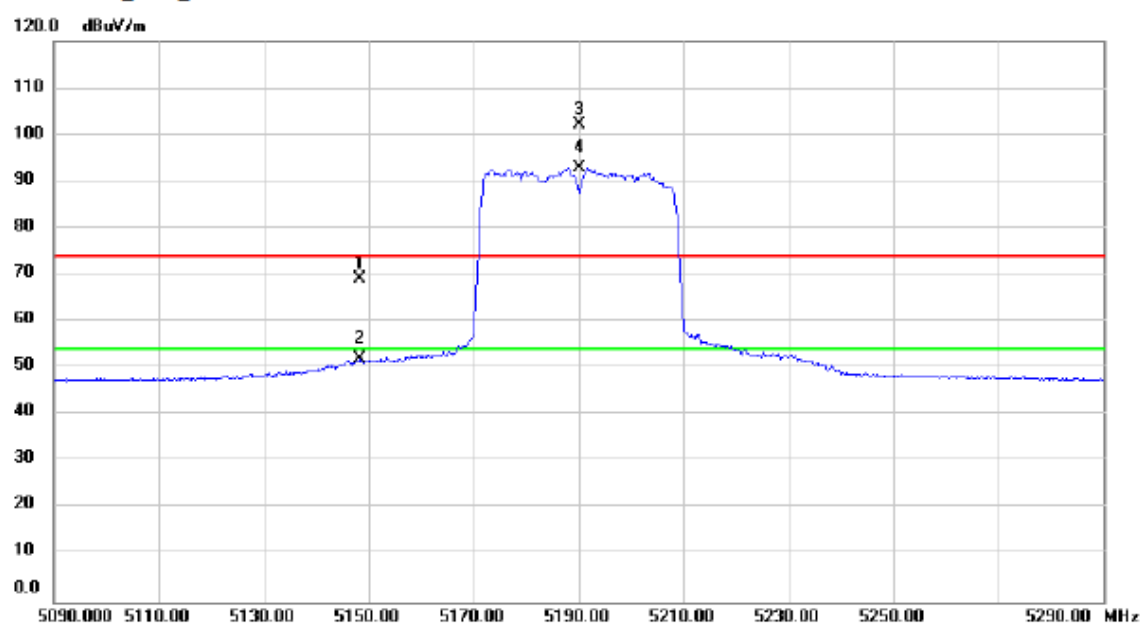
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5149.800	32.53	31.42	63.95	74.00	-10.05	peak	Band Edge
2		5149.800	20.31	31.42	51.73	54.00	-2.27	AVG	Band Edge
3	X	5190.000	71.42	31.45	102.87	74.00	28.87	peak	No Limit
4	*	5190.000	63.31	31.45	94.76	54.00	40.76	AVG	No Limit

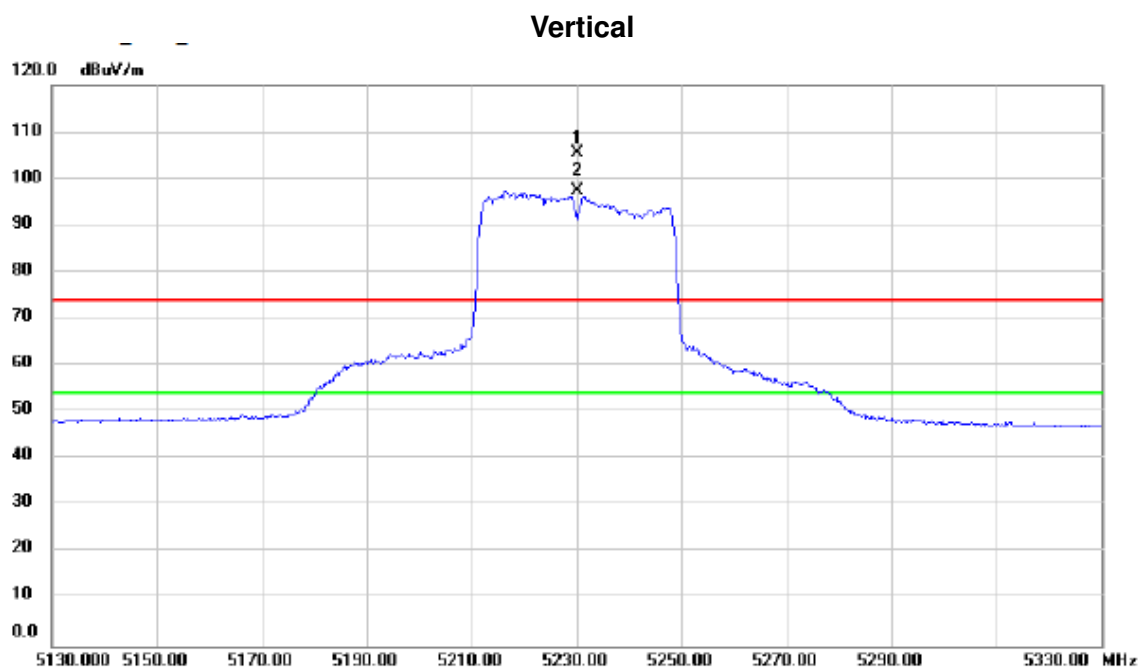
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5148.400	37.87	31.42	69.29	74.00	-4.71	peak	Band Edge
2		5148.400	20.60	31.42	52.02	54.00	-1.98	AVG	Band Edge
3	X	5190.000	70.66	31.45	102.11	74.00	28.11	peak	No Limit
4	*	5190.000	61.27	31.45	92.72	54.00	38.72	AVG	No Limit

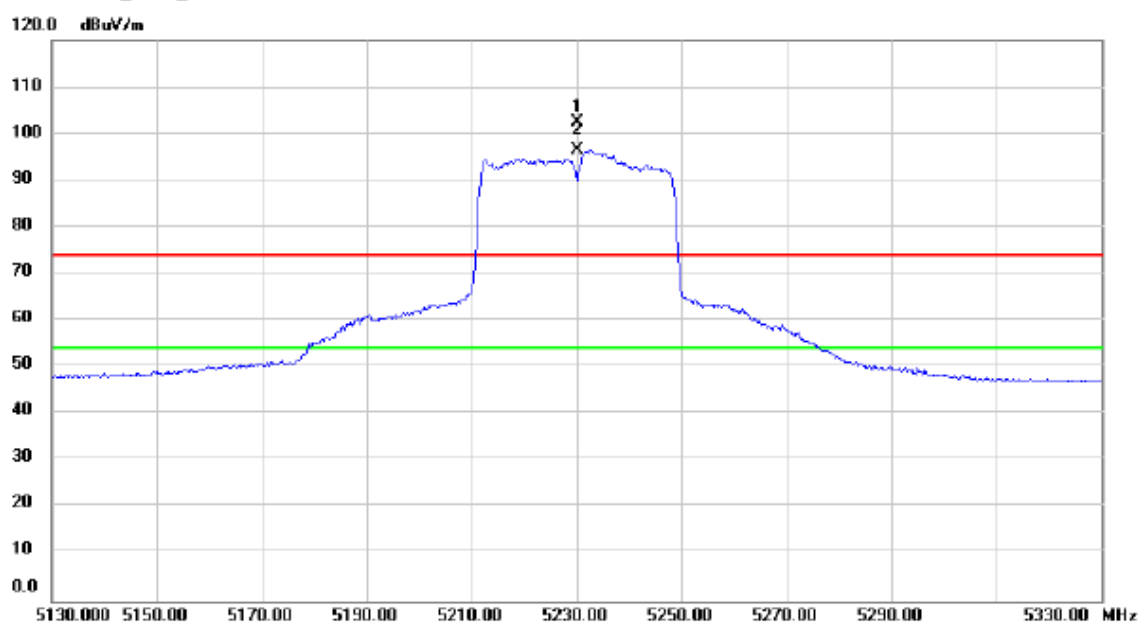
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5230.000	73.93	31.48	105.41	74.00	31.41	peak	No Limit
2	*	5230.000	65.78	31.48	97.26	54.00	43.26	AVG	No Limit

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

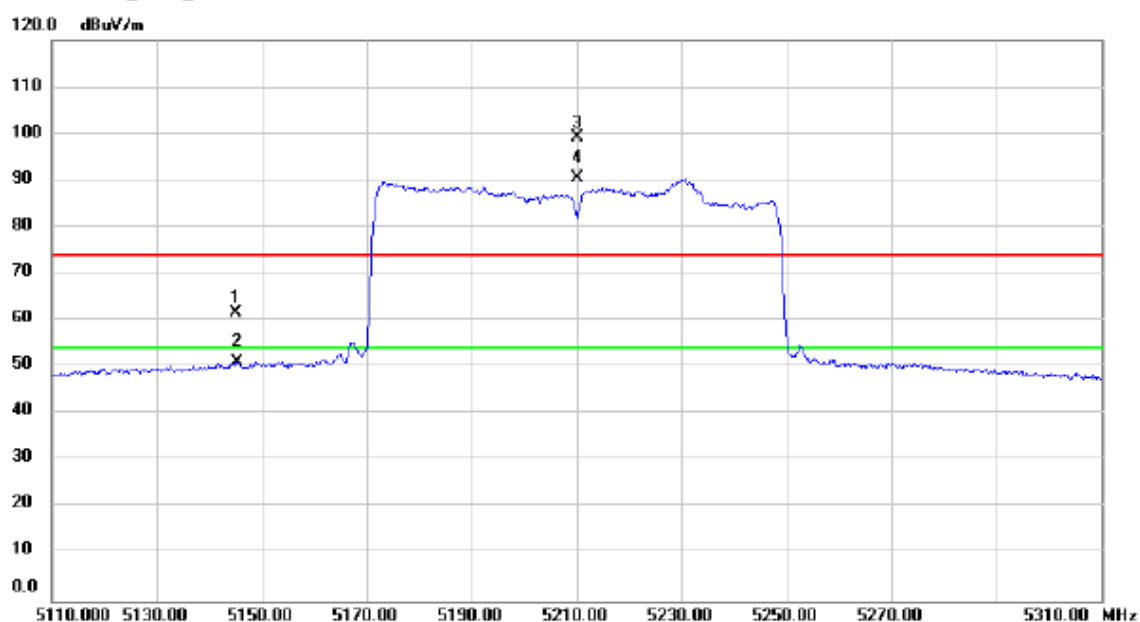
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5230.000	71.06	31.48	102.54	74.00	28.54	peak	No Limit
2	*	5230.000	64.88	31.48	96.36	54.00	42.36	AVG	No Limit

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

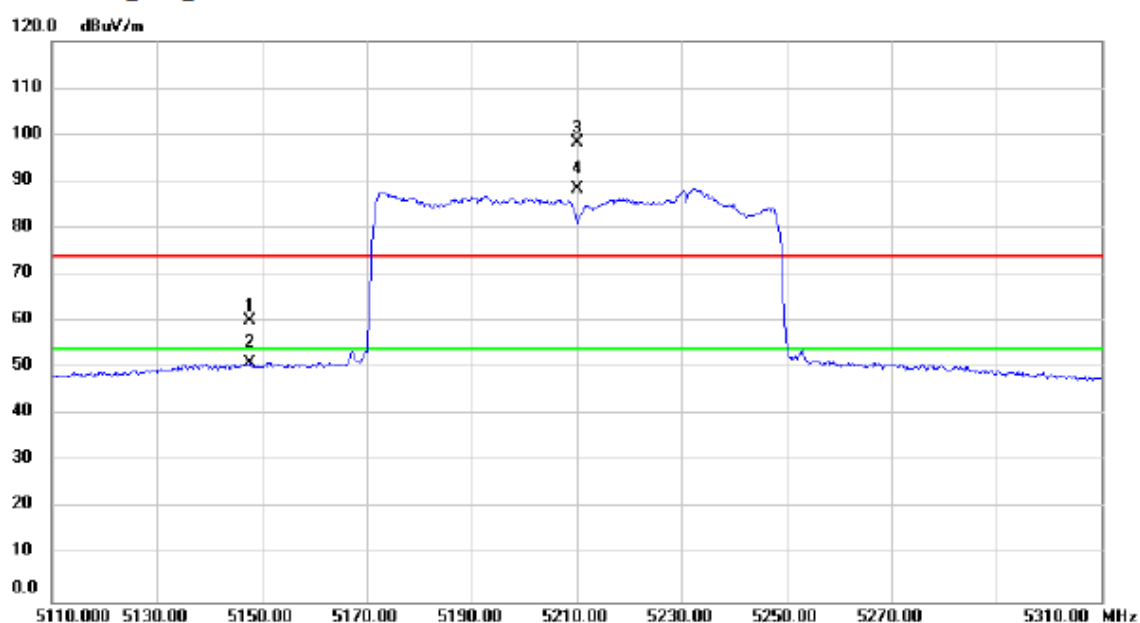
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5145.000	30.25	31.42	61.67	74.00	-12.33	peak	Band Edge
2		5145.400	19.75	31.42	51.17	54.00	-2.83	AVG	Band Edge
3	X	5210.000	67.57	31.47	99.04	74.00	25.04	peak	No Limit
4	*	5210.000	58.98	31.47	90.45	54.00	36.45	AVG	No Limit

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

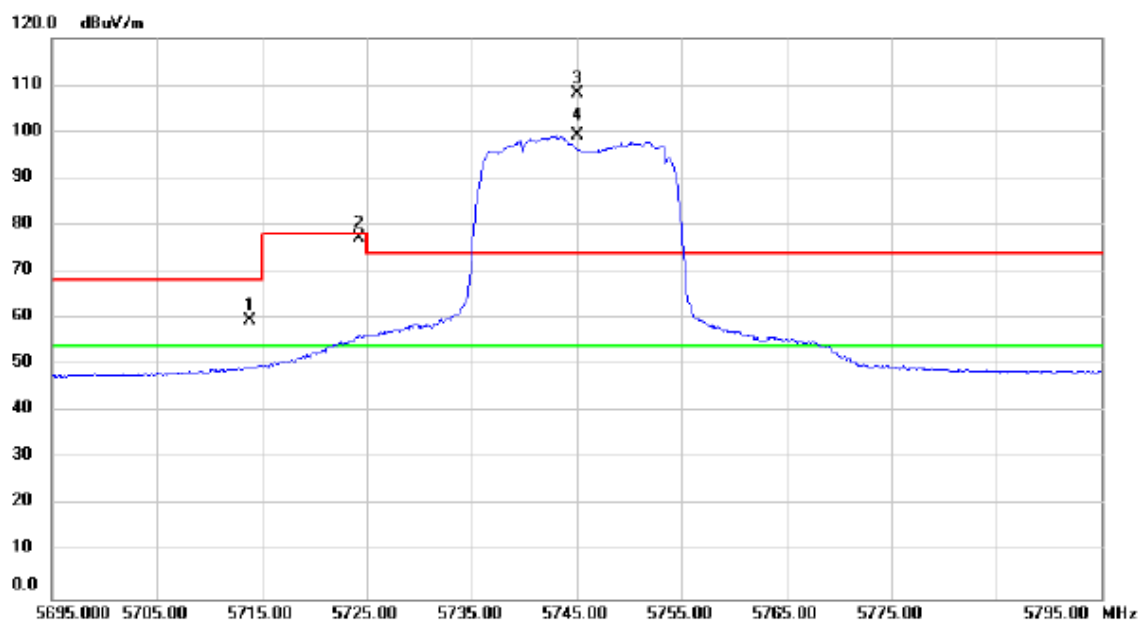
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5147.600	28.87	31.42	60.29	74.00	-13.71	peak	Band Edge
2		5147.600	19.61	31.42	51.03	54.00	-2.97	AVG	Band Edge
3	X	5210.000	66.83	31.47	98.30	74.00	24.30	peak	No Limit
4	*	5210.000	56.85	31.47	88.32	54.00	34.32	AVG	No Limit

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

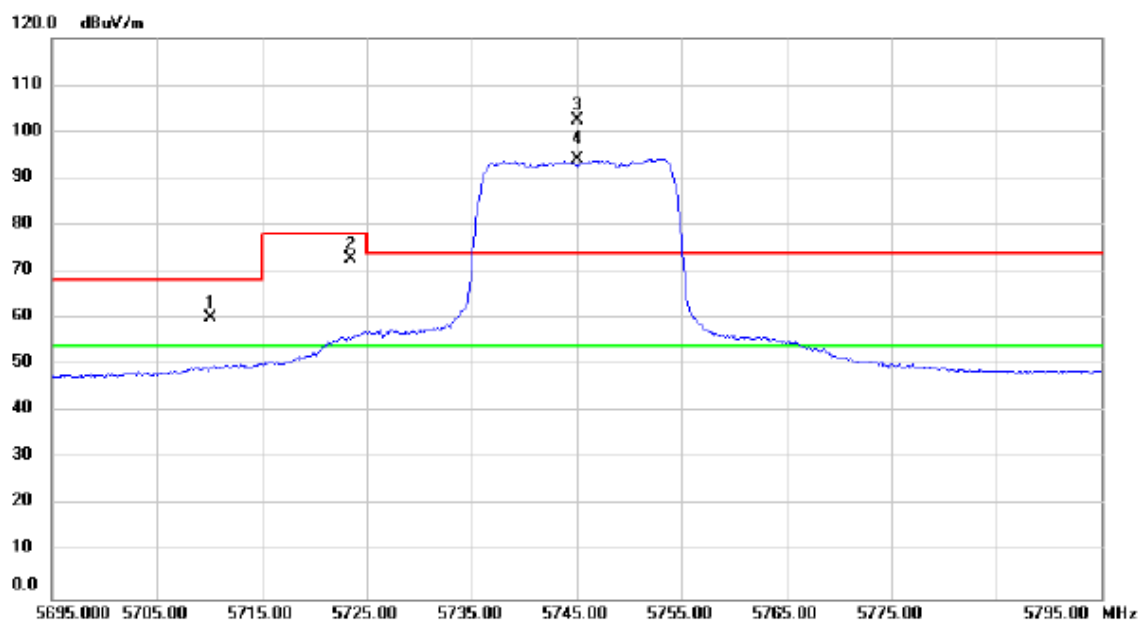
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5713.800	27.48	32.00	59.48	68.20	-8.72	peak	Band Edge
2		5724.250	45.12	32.01	77.13	78.20	-1.07	peak	Band Edge
3	X	5745.000	76.16	32.04	108.20	74.00	34.20	peak	No Limit
4	*	5745.000	67.01	32.04	99.05	54.00	45.05	AVG	No Limit

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

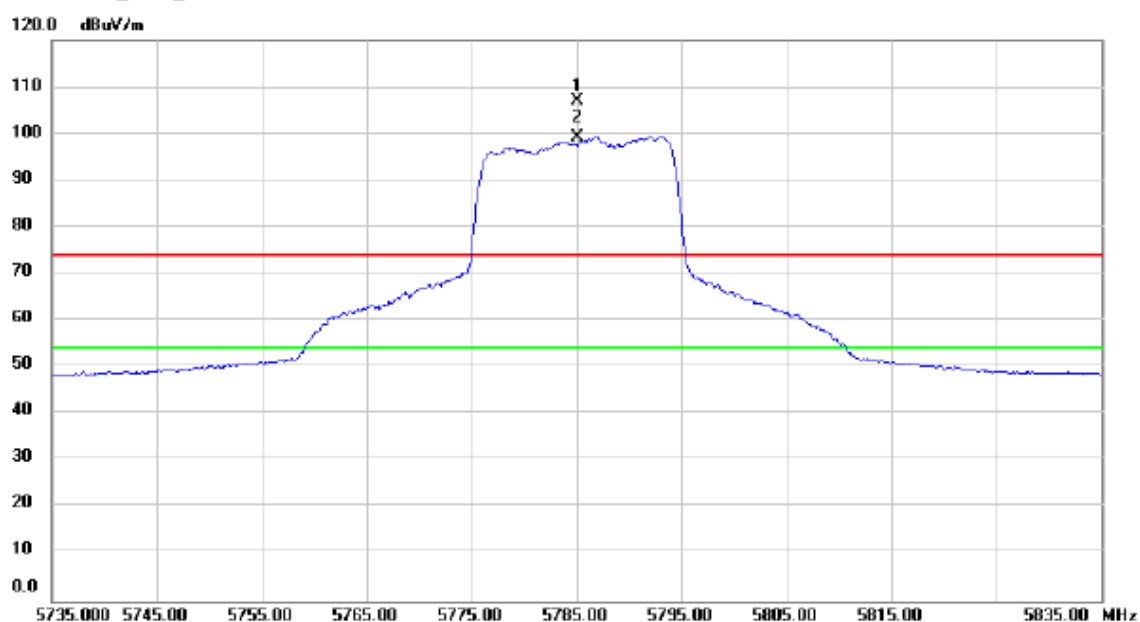
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5710.140	28.21	31.99	60.20	68.20	-8.00	peak	Band Edge
2		5723.500	40.81	32.01	72.82	78.20	-5.38	peak	Band Edge
3	X	5745.000	70.40	32.04	102.44	74.00	28.44	peak	No Limit
4	*	5745.000	62.10	32.04	94.14	54.00	40.14	AVG	No Limit

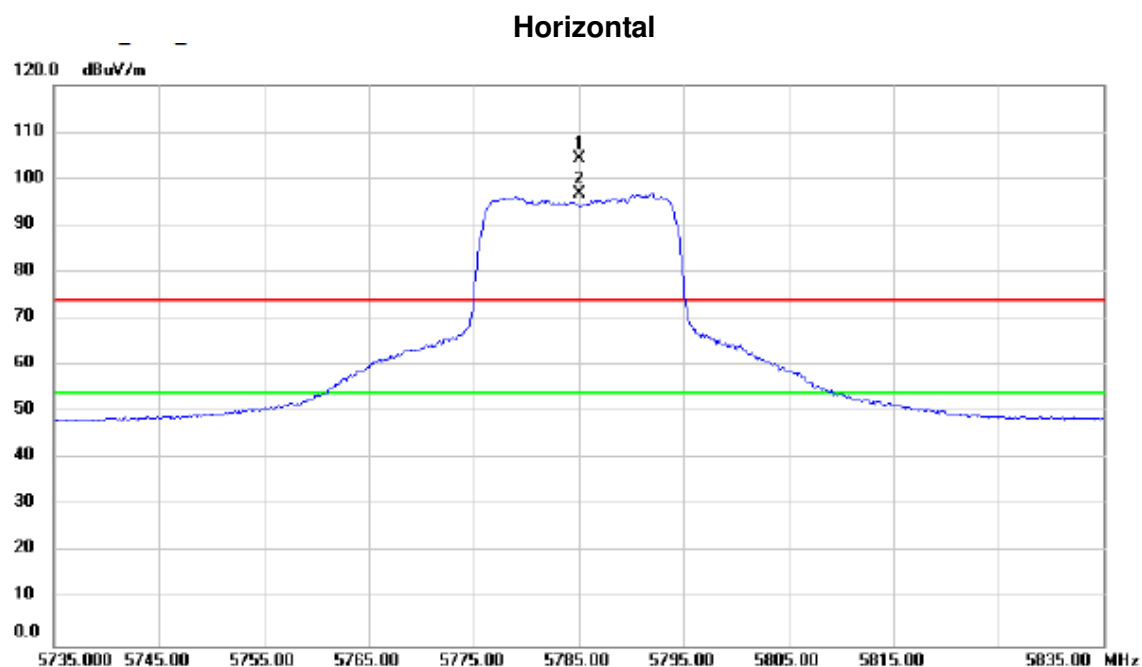
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5785.000	74.95	32.10	107.05	74.00	33.05	peak	No Limit
2	*	5785.000	67.15	32.10	99.25	54.00	45.25	AVG	No Limit

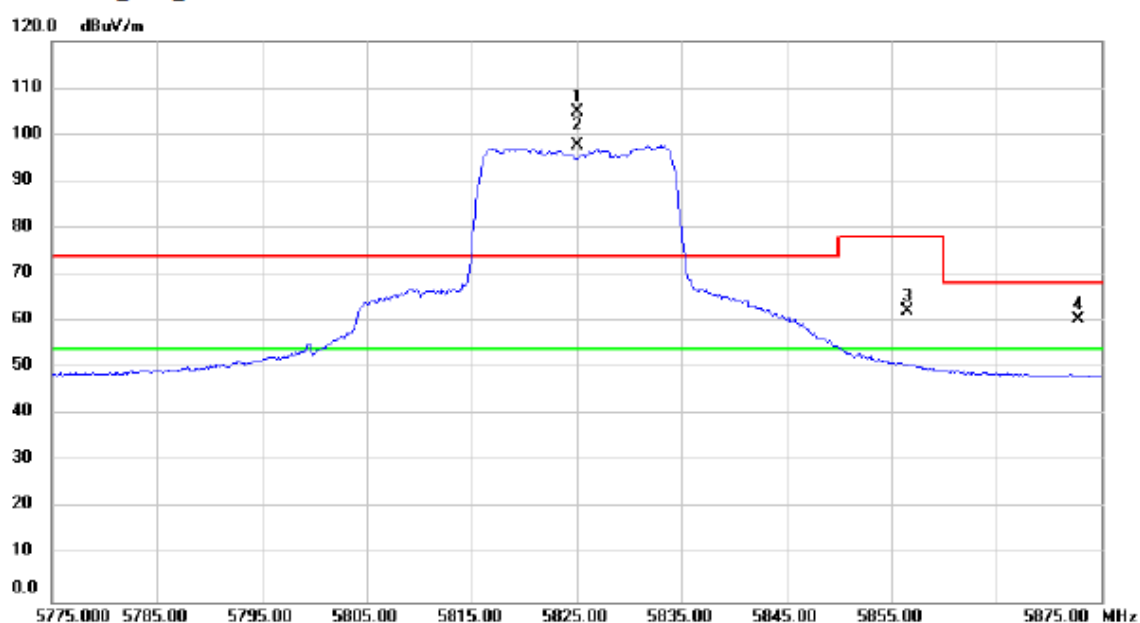
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5785.000	72.20	32.10	104.30	74.00	30.30	peak	No Limit
2	X	5785.000	64.58	32.10	96.68	74.00	22.68	peak	No Limit

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

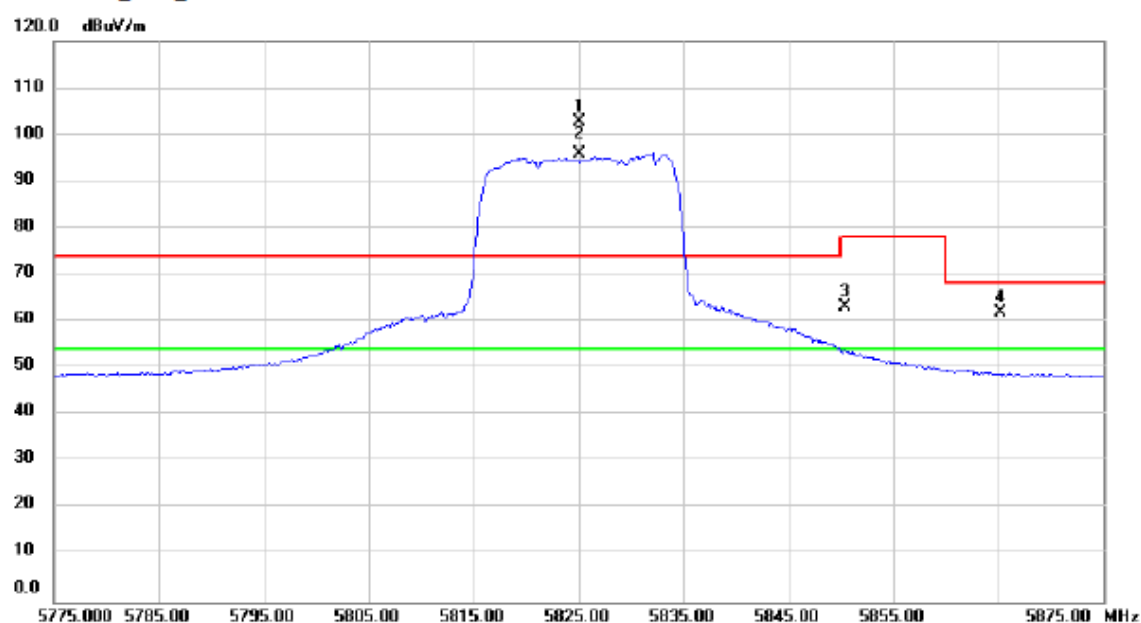
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5825.000	72.77	32.16	104.93	74.00	30.93	peak	No Limit
2	*	5825.000	65.48	32.16	97.64	54.00	43.64	AVG	No Limit
3		5856.475	29.91	32.20	62.11	78.20	-16.09	peak	Band Edge
4		5872.735	28.18	32.22	60.40	68.20	-7.80	peak	Band Edge

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

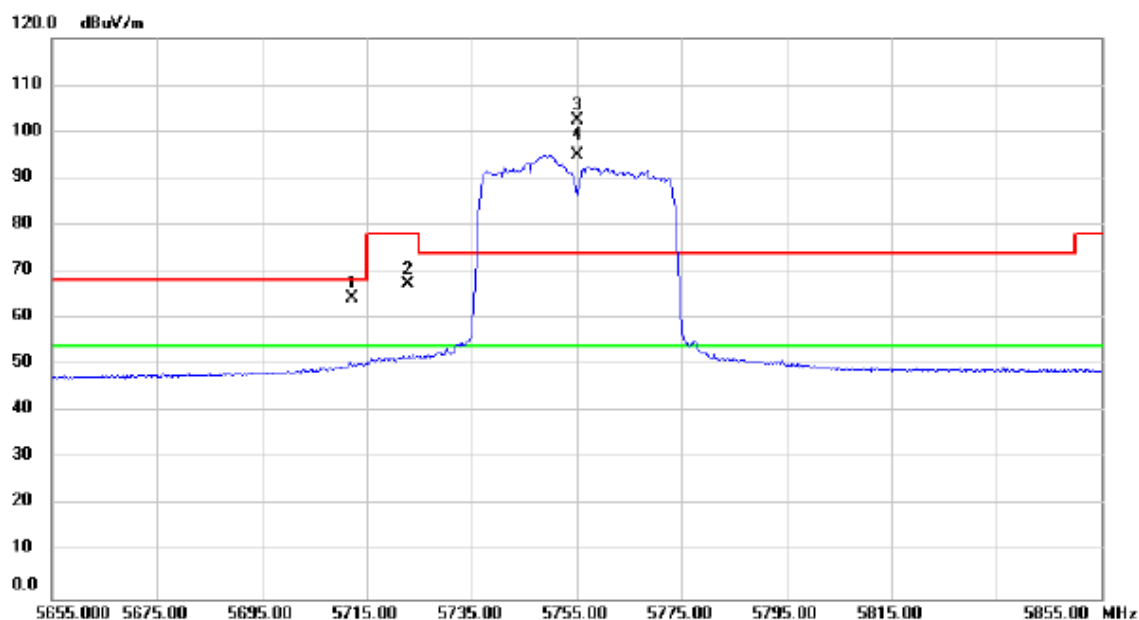
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5825.000	70.59	32.16	102.75	74.00	28.75	peak	No Limit
2	*	5825.000	63.84	32.16	96.00	54.00	42.00	AVG	No Limit
3		5850.450	31.09	32.19	63.28	78.20	-14.92	peak	Band Edge
4		5865.145	29.85	32.21	62.06	68.20	-6.14	peak	Band Edge

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

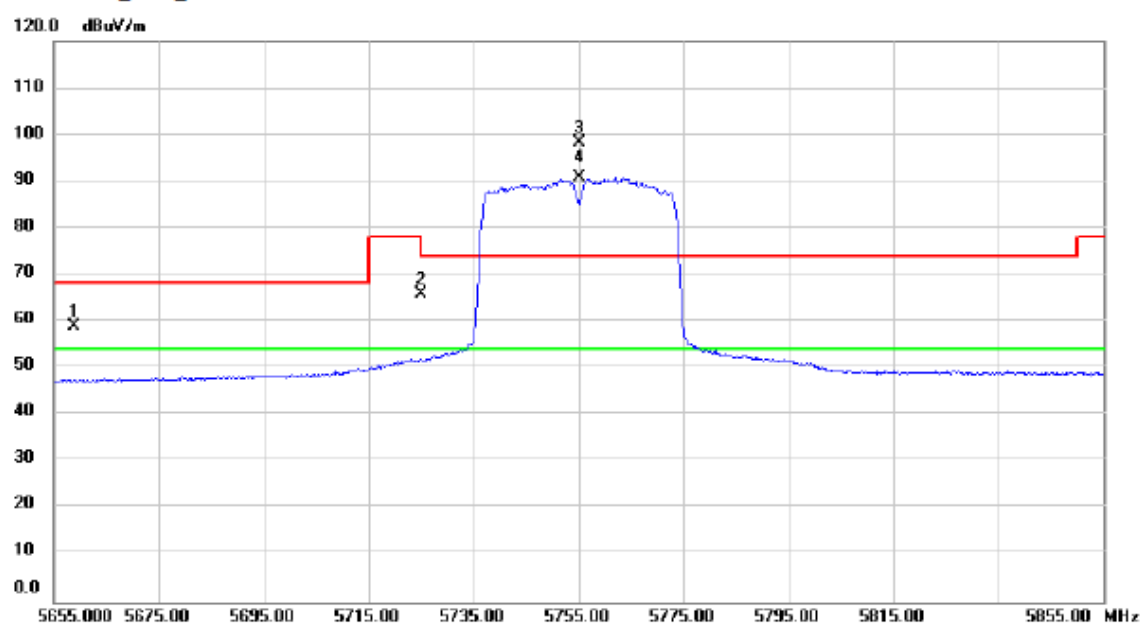
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5712.240	32.47	32.00	64.47	68.20	-3.73	peak	Band Edge
2		5722.830	35.42	32.01	67.43	78.20	-10.77	peak	Band Edge
3	X	5755.000	70.32	32.06	102.38	74.00	28.38	peak	No Limit
4	*	5755.000	63.02	32.06	95.08	54.00	41.08	AVG	No Limit

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

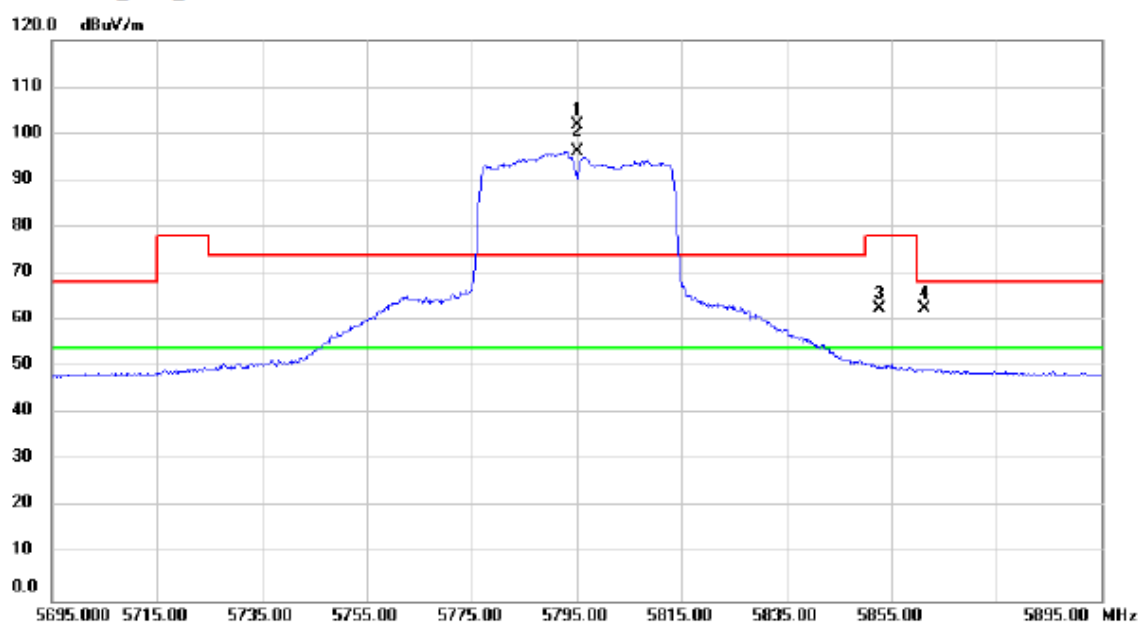
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5658.840	26.98	31.92	58.90	68.20	-9.30	peak	Band Edge
2		5724.980	33.90	32.01	65.91	78.20	-12.29	peak	Band Edge
3	X	5755.000	66.06	32.06	98.12	74.00	24.12	peak	No Limit
4	*	5755.000	58.67	32.06	90.73	54.00	36.73	AVG	No Limit

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

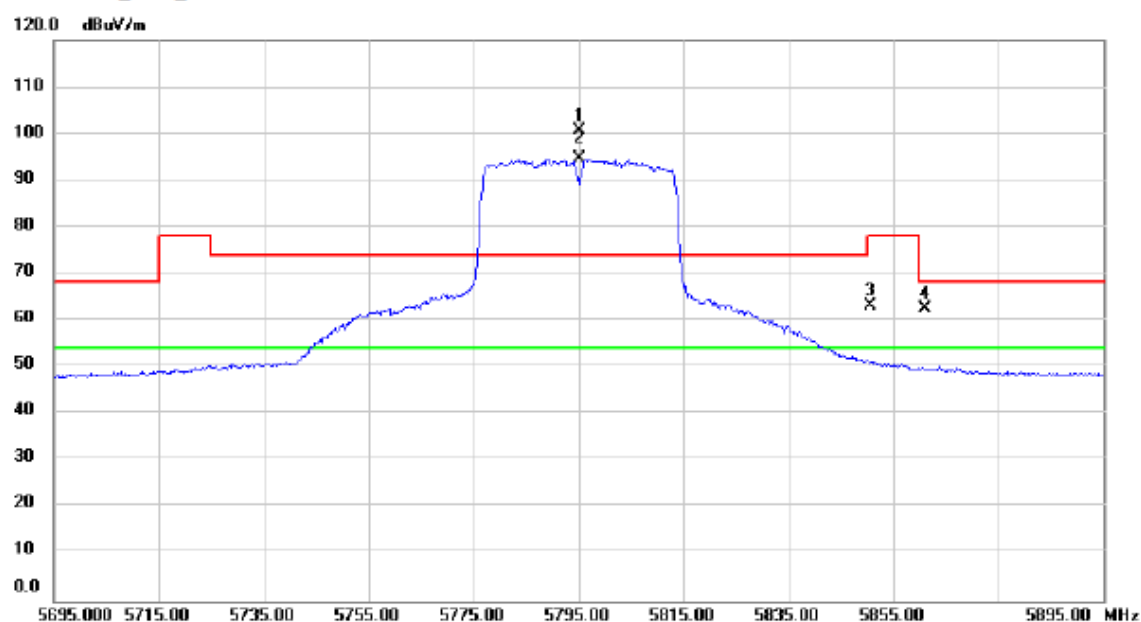
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5795.000	69.89	32.11	102.00	74.00	28.00	peak	No Limit
2	*	5795.000	64.02	32.11	96.13	54.00	42.13	AVG	No Limit
3		5852.790	30.41	32.19	62.60	78.20	-15.60	peak	Band Edge
4		5861.260	30.42	32.21	62.63	68.20	-5.57	peak	Band Edge

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

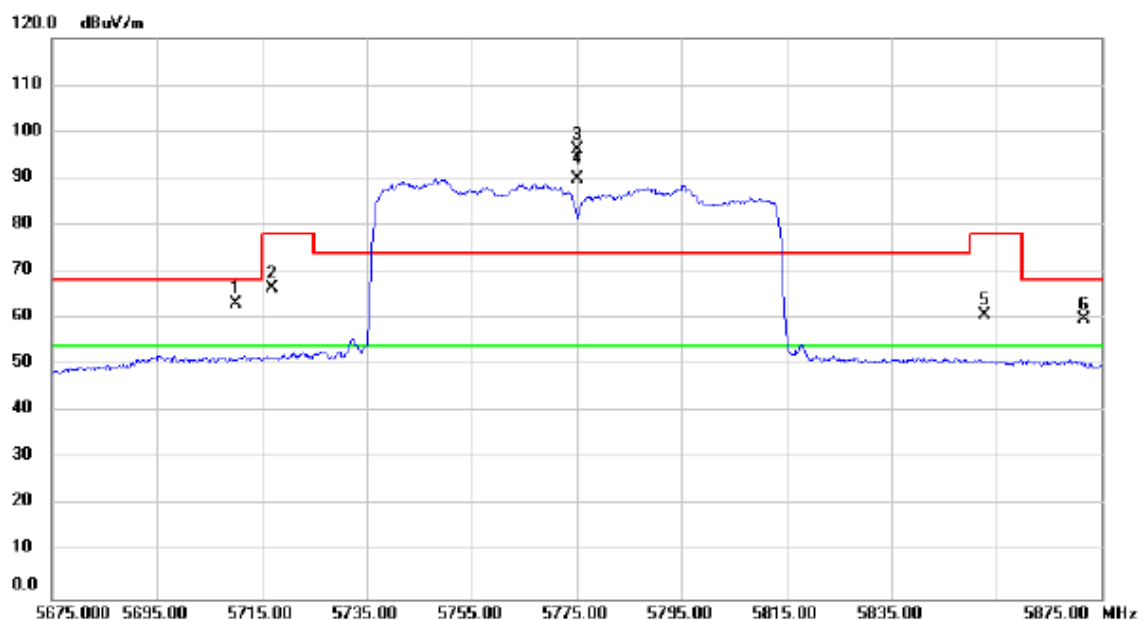
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5795.000	68.67	32.11	100.78	74.00	26.78	peak	No Limit
2	*	5795.000	62.44	32.11	94.55	54.00	40.55	AVG	No Limit
3		5850.675	31.08	32.19	63.27	78.20	-14.93	peak	Band Edge
4		5861.085	30.25	32.21	62.46	68.20	-5.74	peak	Band Edge

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

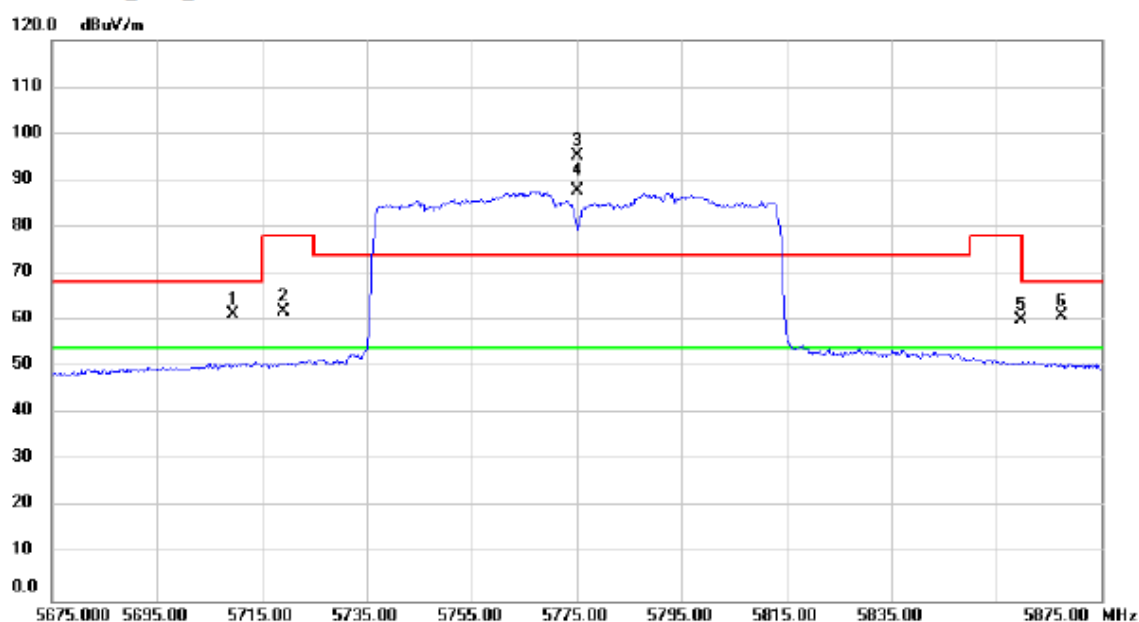
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5710.160	31.25	31.99	63.24	68.20	-4.96	peak	Band Edge
2		5717.100	34.33	32.00	66.33	78.20	-11.87	peak	Band Edge
3	X	5775.000	64.20	32.09	96.29	74.00	22.29	peak	No Limit
4	*	5775.000	57.62	32.09	89.71	54.00	35.71	AVG	No Limit
5		5852.630	28.55	32.19	60.74	78.20	-17.46	peak	Band Edge
6		5871.565	27.72	32.22	59.94	68.20	-8.26	peak	Band Edge

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

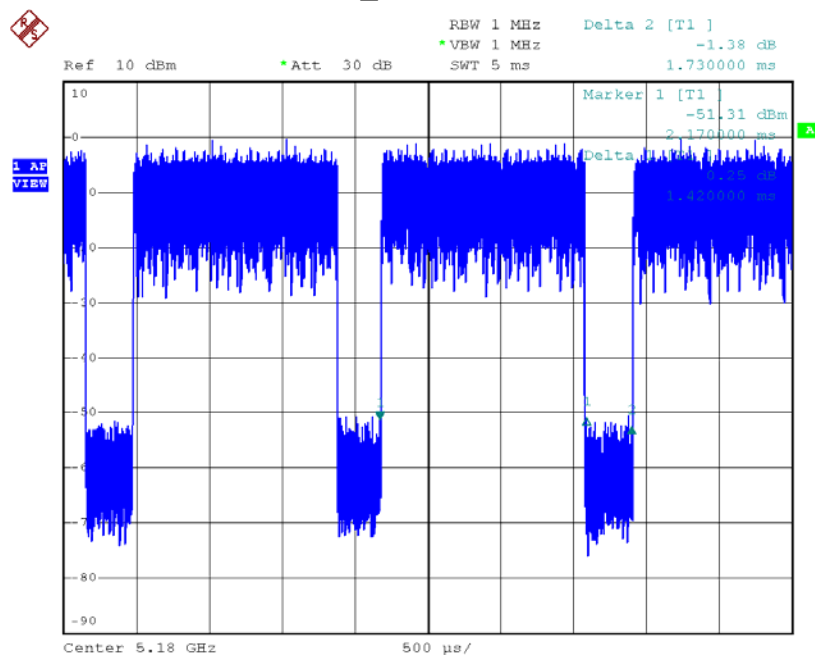
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		5709.640	29.36	31.99	61.35	68.20	-6.85	peak	Band Edge
2		5719.150	29.83	32.01	61.84	78.20	-16.36	peak	Band Edge
3	X	5775.000	63.26	32.09	95.35	74.00	21.35	peak	No Limit
4	*	5775.000	55.62	32.09	87.71	54.00	33.71	AVG	No Limit
5		5859.600	28.01	32.20	60.21	78.20	-17.99	peak	Band Edge
6		5867.470	28.91	32.21	61.12	68.20	-7.08	peak	Band Edge

Non-Beamforming

TX A Mode_DUTY CYCLE



Date: 4.MAR.2016 10:25:12

Duty cycle: TX DUTYMHZ

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

T_{ON} : 1.42 msec

T_{Total} : 1.73 msec

Duty cycle: 82.08%

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

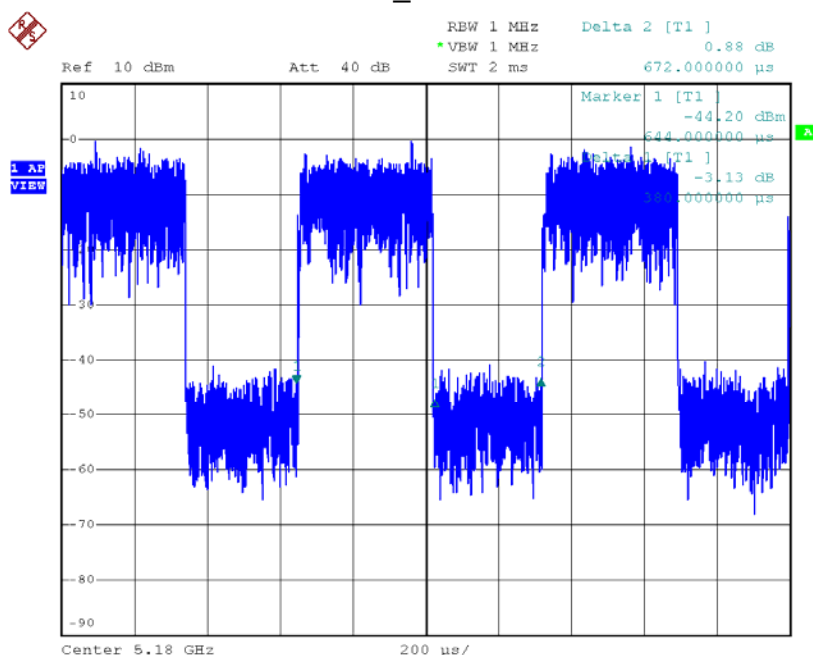
Duty Factor = 0.86

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be cacluated as

Output Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

TX N20 Mode_DUTY CYCLE



Date: 4.MAR.2016 10:43:10

Duty cycle: TX DUTYMHz

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

T_{ON} : 0.38 msec

T_{Total} : 0.672 msec

Duty cycle:56.54%

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

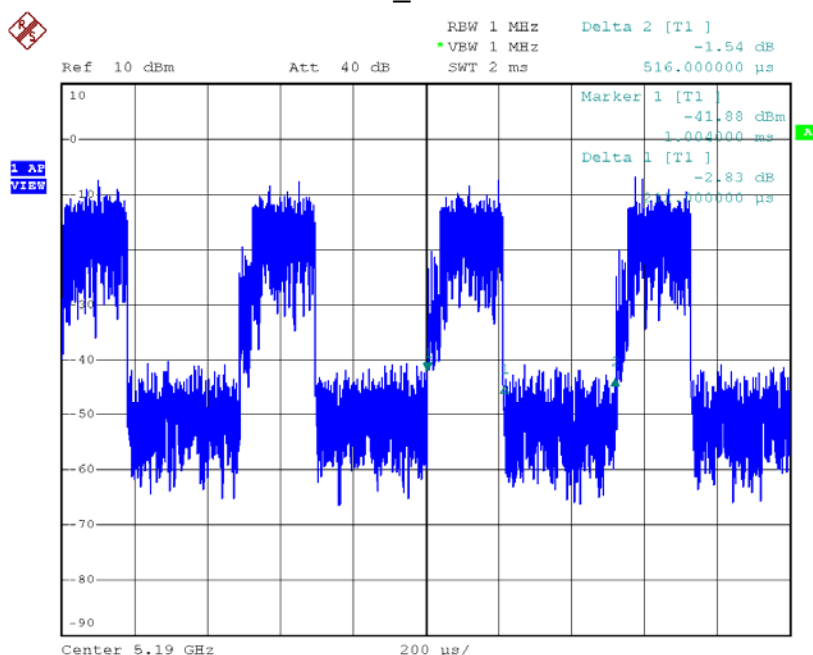
Duty Factor = 2.48

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be cacluated as

Output Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

TX N40 Mode_DUTY CYCLE



Date: 4.MAR.2016 10:40:33

Duty cycle: TX DUTYMHz

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

T_{ON} : 0.212msec

T_{Total} : 0.516 msec

Duty cycle: 41.09%

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

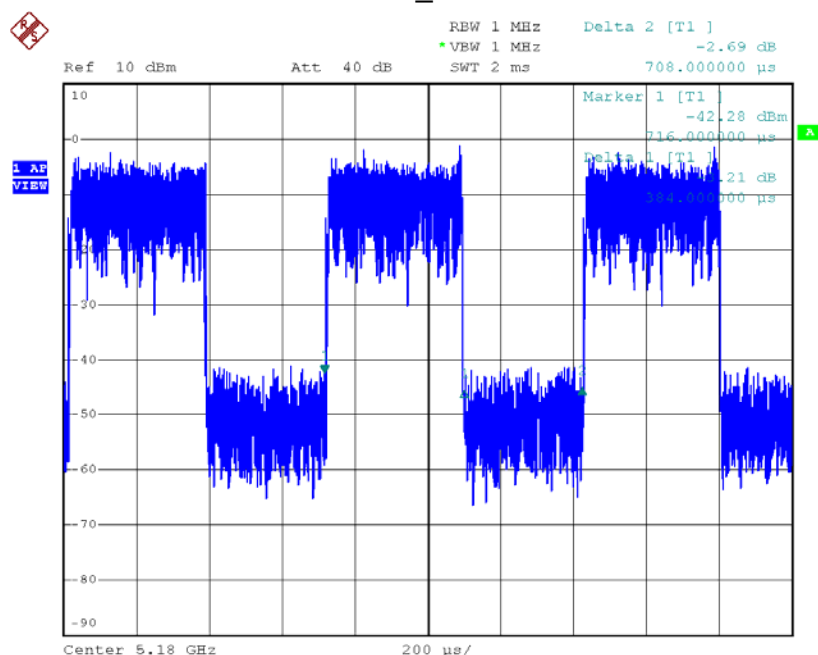
Duty Factor = 3.86

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be cacluated as

Output Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

TX AC20 Mode_DUTY CYCLE



Date: 4.MAR.2016 10:45:10

Duty cycle: TX DUTYMHz

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

T_{ON} : 0.384 msec

T_{Total} : 0.708 msec

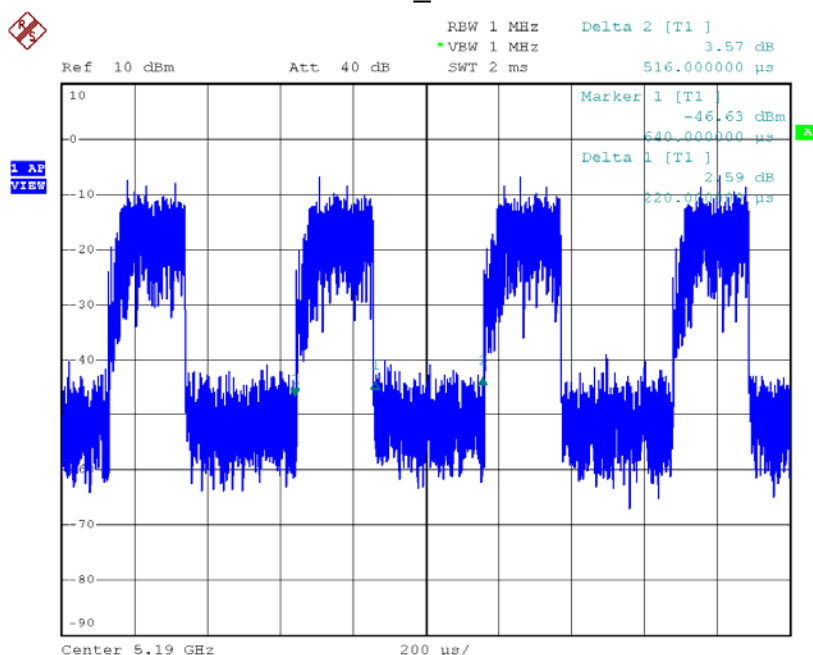
Duty cycle: 54.24%

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

Duty Factor = 2.66

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

TX AC40 Mode_DUTY CYCLE



Date: 4.MAR.2016 10:48:20

Duty cycle: TX DUTYMHz

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

T_{ON} : 0.22 msec

T_{Total} : 0.516 msec

Duty cycle: 42.64%

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

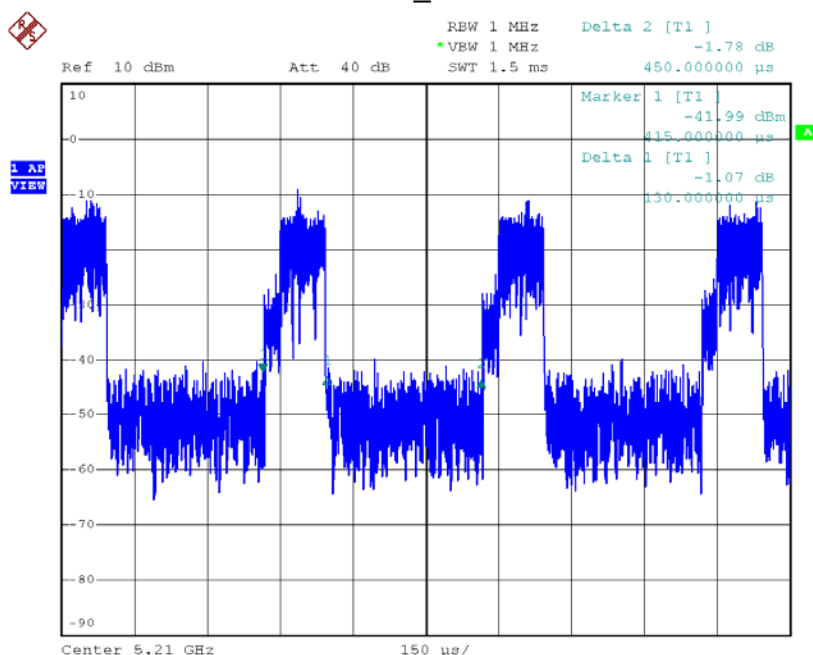
Duty Factor = 3.70

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be calculated as

Output Power = Measured power + Duty factor

Power Spectral Density = Measured density + Duty factor

TX AC80 Mode_DUTY CYCLE



Date: 4.MAR.2016 10:52:47

Duty cycle: TX DUTYMHz

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

T_{ON} : 0.13 msec

T_{Total} : 0.45 msec

Duty cycle: 28.89%

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

Duty Factor = 5.39

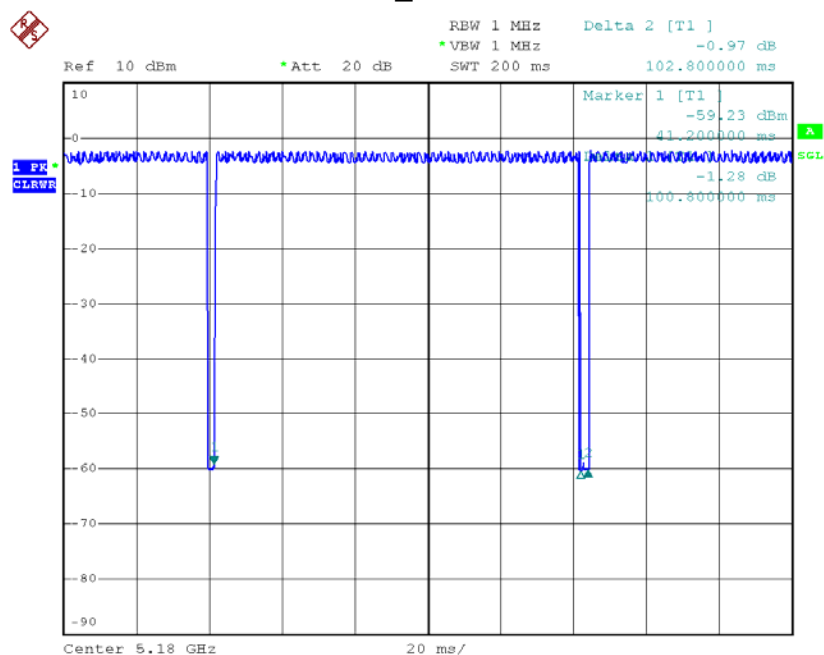
Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be calculated as

Output Power = Measured power + Duty factor

Power Spectral Density = Measured density + Duty factor

Beamforming

TX N20 Mode_DUTY CYCLE



Date: 29.MAR.2016 00:12:17

Duty cycle: TX DUTYMHz

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

T_{ON} : 0.1008 msec

T_{Total} : 0.1028 msec

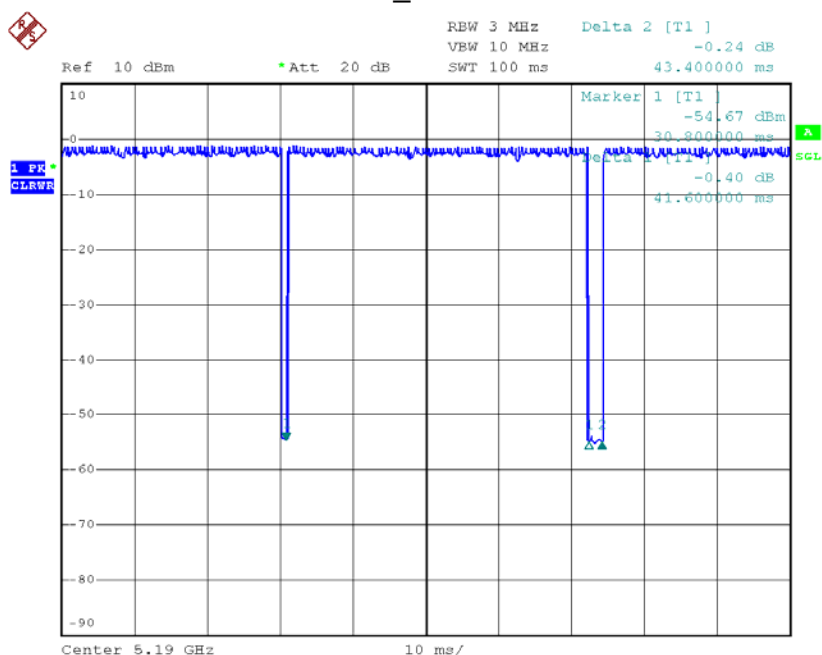
Duty cycle: 98.054%

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

Duty Factor = 0.09

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 caculated as Output Power = Measured power + Ducy factor
 Power Spectral Density = Measured density + Duty factor

TX N40 Mode_DUTY CYCLE



Date: 29.MAR.2016 00:09:33

Duty cycle: TX DUTYMHz

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

T_{ON} : 0.0418 msec

T_{Total} : 0.0434 msec

Duty cycle: 95.85%

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

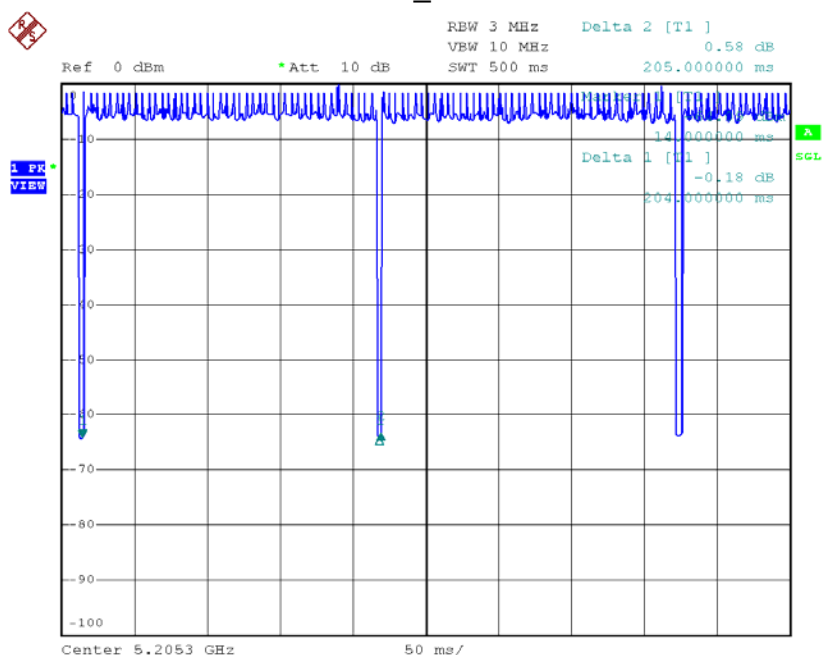
Duty Factor = 0.18

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be caculated as

Output Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

TX AC80 Mode_DUTY CYCLE



Date: 29.MAR.2016 00:06:16

Duty cycle: TX DUTYMHz

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

T_{ON} : 0.204 msec

T_{Total} : 0.205 msec

Duty cycle: 99.51%

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

Duty Factor = 0.02

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is less than 98 %, so, the output power and power density should be cacluated as

Output Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

ATTACHMENT F - BANDWIDTH