FCC Radio Test Report

FCC ID:YHI-NW121

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

Project No.	:	1603135A
Equipment	:	3x3 11ac/n/g/b/a 2.4/5GHz WiFi Module
Model Name	:	NW-121
Applicant	:	NEXCOM International Co., Ltd
Address	:	9F., No.920, Chung-Cheng Rd., Zhonghe Dist., New Taipei City 235, Taiwan

Date of Receipt	:	Apr. 11, 2016
Date of Test	:	Apr. 11, 2016 ~ May 18, 2016
Issued Date	:	May 19, 2016
Tested by	:	BTL Inc.

Testing Engineer : Rush Kao
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Limitation

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

Table of Contents Page

1 . CERTIFICATION 6

2 . SUMMARY OF TEST RESULTS 7

2.1 TEST FACILITY 8

2.2 MEASUREMENT UNCERTAINTY 8

3 . GENERAL INFORMATION 10

3.1 GENERAL DESCRIPTION OF EUT 10

3.2 DESCRIPTION OF TEST MODES 13

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING 15

3.4BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED 16

3.5DESCRIPTION OF SUPPORT UNITS 16

4 .EMC EMISSION TEST 17

4.1 CONDUCTED EMISSION MEASUREMENT 17

4.1.1 POWER LINE CONDUCTED EMISSION 17

4.1.2 TEST PROCEDURE 17

4.1.3DEVIATIONFROMTESTSTANDARD 17

4.1.4 TESTSETUP 18

4.1.5EUT OPERATING CONDITIONS 18

4.1.6EUT TEST CONDITIONS 18

4.1.7 TEST RESULTS 18

4.2 RADIATED EMISSION MEASUREMENT 19

4.2.1 RADIATED EMISSION LIMITS 19

4.2.2 TESTPROCEDURE 20

4.2.3DEVIATIONFROMTESTSTANDARD 20

4.2.4 TESTSETUP 20

4.2.5EUT OPERATING CONDITIONS 21

4.2.6EUT TEST CONDITIONS 21

4.2.7 TEST RESULTS (9K TO 30MHz) 22

4.2.8 TEST RESULTS (30 TO 1000 MHz) 22

4.2.9 TEST RESULTS (ABOVE 1000 MHz) 22

5 .26dB SPECTRUM BANDWIDTH 23

5.1 APPLIED PROCEDURES / LIMIT 23

5.1.1 TEST PROCEDURE 23

5.1.2 DEVIATION FROM STANDARD 23

5.1.3 TEST SETUP 23

5.1.4 EUT OPERATION CONDITIONS 23

5.1.5 EUT TEST CONDITIONS 23

5.1.6 TEST RESULTS 23

6 .MAXIMUM CONDUCTED OUTPUT POWER 24

Table of Contents Page

6.1 APPLIED PROCEDURES / LIMIT 24
6.1.1 TEST PROCEDURE 24
6.1.2 DEVIATION FROM STANDARD 25
6.1.3 TEST SETUP 25
6.1.4 EUT OPERATION CONDITIONS 25
6.1.5 EUT TEST CONDITIONS 25
6.1.6 TEST RESULTS 25

7 .POWER SPECTRAL DENSITY TEST 26

7.1 APPLIED PROCEDURES / LIMIT 26
8.1.1 TEST PROCEDURE 26
7.1.1 DEVIATION FROM STANDARD 27
7.1.2 TEST SETUP 27
7.1.3 EUT OPERATION CONDITIONS 27
7.1.4 EUT TEST CONDITIONS 27
7.1.5 TEST RESULTS 27

8 .FREQUENCY STABILITY MEASUREMENT 28

8.1 APPLIED PROCEDURES / LIMIT 28
8.1.1 TEST PROCEDURE 28
8.1.2 DEVIATION FROM STANDARD 28
8.1.3 TEST SETUP 29
8.1.4 EUT OPERATION CONDITIONS 29
8.1.5 EUT TEST CONDITIONS 29
8.1.6 TEST RESULTS 29

9 . MEASUREMENT INSTRUMENTS LIST 30

10 .EUT TEST PHOTOS 32

ATTACHMENT A -CONDUCTED EMISSION 36

ATTACHMENT B -RADIATED EMISSION (9KHZ TO 30MHZ) 39

ATTACHMENT C -RADIATED EMISSION (30MHZ TO 1000MHZ) 44

ATTACHMENT D -RADIATED EMISSION (ABOVE 1000MHZ) 47

ATTACHMENT E -BANDWIDTH 178

ATTACHMENT F - MAXIMUM OUTPUT POWER 202

ATTACHMENT G - POWER SPECTRAL DENSITY 215

ATTACHMENT H - FREQUENCY STABILITY 297

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1603135A	Original Issue.	May 19, 2016

1. CERTIFICATION

Equipment	:	3x3 11ac/n/g/b/a 2.4/5GHz WiFi Module
Brand Name	:	NEXCOM
Model Name	:	NW-121
Applicant	:	NEXCOM International Co., Ltd
Date of Test	:	Apr. 11, 2016 ~ May 18, 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-1-1603135A) 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 5GHz Band 2 and Band 3 part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

NOTE:

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

2.1TEST FACILITY

The test facilities used to collect the test data in this report:

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

2.2MEASUREMENT UNCERTAINTY

The measurement uncertainty is not specified by FCC rules and for reference only.
The reported uncertainty of measurement **y** ± **U**, where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95**%.
The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.
The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

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	U, (dB)
CB11 (3m)	CISPR	9kHz ~ 150kHz	4.00
		150kHz ~ 30MHz	4.00

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

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

Test Site	Method	Measurement Frequency Range	U, (dB)
CB08 (1m)	CISPR	18 ~ 26.5 GHz	4.66
		26.5 ~ 40 GHz	4.74

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	3x3 11ac/n/g/b/a 2.4/5GHz WiFi Module	
Brand Name	NEXCOM	
Model Name	NW-121	
Mode Different	N/A	
Product Description	Operation Frequency	UNII-2A: 5250-5350MHz UNII-2C: 5470-5725MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to MCS23 802.11ac: up to V29
	Output Power (Max.)for UNII-2A	802.11a:16.22 dBm 802.11n (20M): 16.20 dBm 802.11n (40M): 12.67 dBm 802.11ac (20M): 15.56 dBm 802.11ac (40M): 12.80 dBm 802.11ac (80M): 7.32 dBm
	Output Power (Max.)for UNII-2C	802.11a:16.75 dBm 802.11n (20M): 16.78 dBm 802.11n (40M): 16.10 dBm 802.11ac (20M): 16.33 dBm 802.11ac (40M): 16.30 dBm 802.11ac (80M): 9.85 dBm
Power Source	DC voltage supplied from Host equipment.	
Power Rating	I/P: DC 3.3V	

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-2A		UNII-2A		UNII-2A	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	54	5270	58	5290
56	5280	62	5310		
60	5300				
64	5320				

802.11a 802.11n 20MHz 802.11ac 20MHz		802.11n 40MHz 802.11ac 40MHz		802.11ac 80MHz	
UNII-2C		UNII-2C		UNII-2C	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	WIESON	GY121L049S-010	Dipole	SMA Male	1.99	TX/RX
2	WIESON	GY121L049S-010	Dipole	SMA Male	1.99	TX/RX
3	WIESON	GY121L049S-010	Dipole	SMA Male	1.99	TX/RX

Note: The EUT incorporates a MIMO function. Physically, the EUT provides three completed three transmitters and receivers (3T3R) the EUT with CDD function, then, Direction gain = G_{ANT}+Array Gain, the Array gain=10log(N_{ANT}/N_{SS}). that is Array gain=10log(3/1)=4.77, Directional gain=1.99+4.77=6.76. So the PSD of a mode Limit=11-6.76+6=10.24.

4.

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

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/ CH52, CH60, CH64 (UNII-2A)
Mode 2	TX N20 Mode/ CH52, CH60, CH64 (UNII-2A)
Mode 3	TX N40 Mode/ CH54, CH62 (UNII-2A)
Mode 4	TX AC20 Mode/ CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC40 Mode/ CH54, CH62 (UNII-2A)
Mode 6	TX AC80 Mode / CH58 (UNII-2A)
Mode 7	TX A Mode/ CH100, CH116, CH140 (UNII-2C)
Mode 8	TX N20 Mode/ CH100, CH116, CH140 (UNII-2C)
Mode 9	TX N40 Mode/CH102, CH110, CH134(UNII-2C)
Mode 10	TX AC20 Mode/ CH100, CH116, CH140 (UNII-2C)
Mode 11	TX AC40 Mode/CH102, CH110, CH134(UNII-2C)
Mode 12	TX AC80 Mode /CH106, CH122 (UNII-2C)
Mode 13	TX Mode

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

For Conducted Test	
Final Test Mode	Description
Mode 13	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode/ CH52, CH60, CH64 (UNII-2A)
Mode 2	TX N20 Mode/ CH52, CH60, CH64 (UNII-2A)
Mode 3	TX N40 Mode/ CH54, CH62 (UNII-2A)
Mode 4	TX AC20 Mode/ CH52, CH60, CH64 (UNII-2A)
Mode 5	TX AC40 Mode/ CH54, CH62 (UNII-2A)
Mode 6	TX AC80 Mode / CH58 (UNII-2A)
Mode 7	TX A Mode/ CH100, CH116, CH140 (UNII-2C)
Mode 8	TX N20 Mode/ CH100, CH116, CH140 (UNII-2C)
Mode 9	TX N40 Mode/CH102, CH110, CH134(UNII-2C)
Mode 10	TX AC20 Mode/ CH100, CH116, CH140 (UNII-2C)
Mode 11	TX AC40 Mode/CH102, CH110, CH134(UNII-2C)
Mode 12	TX AC80 Mode /CH106, CH122 (UNII-2C)

Note: For Radiated Below 1G test, the 802.11a mode is found to be the worst case and recorded.

3.3 TABLE OF PARAMETERS OF TEXT 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

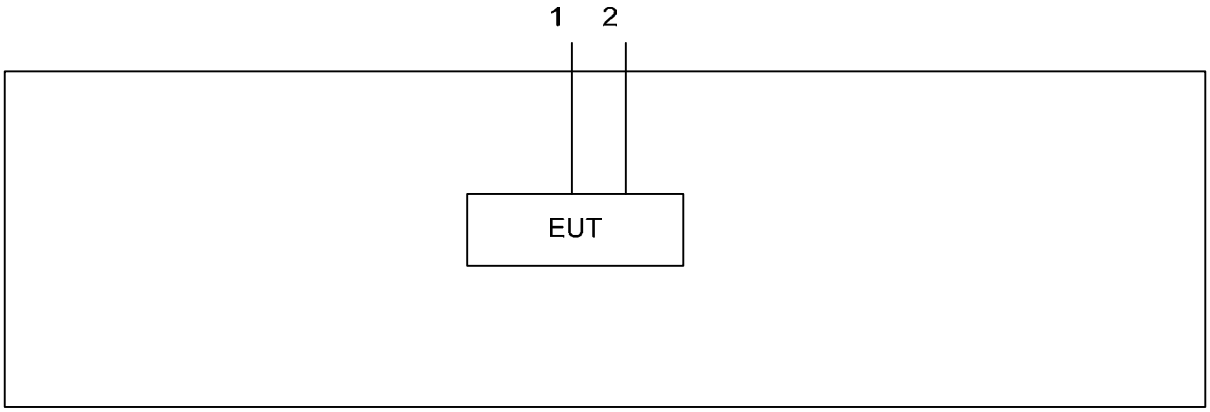
UNII-2A			
Test Software Version	ART2_ver_4_9_815		
Frequency (MHz)	5260	5300	5320
A Mode	13	13	13
N20 Mode	13	13	13
Frequency (MHz)	5270	5310	
N40 Mode	11	11	

UNII-2C			
Test Software Version	ART2_ver_4_9_815		
Frequency (MHz)	5500	5580	5700
A Mode	13	13	13
N20 Mode	13	13	13
Frequency (MHz)	5510	5550	5670
N40 Mode	13	13	13

UNII-2A			
Test Software Version	ART2_ver_4_9_815		
Frequency (MHz)	5260	5300	5320
AC20 Mode	13	13	13
Frequency (MHz)	5270	5310	
AC40 Mode	11	11	
Frequency (MHz)	5290		
AC80 Mode	7		

UNII-2C			
Test Software Version	ART2_ver_4_9_815		
Frequency (MHz)	5500	5580	5700
AC20 Mode	13	13	13
Frequency (MHz)	5510	5550	5670
AC40 Mode	13	13	13
Frequency (MHz)	5530	5610	
AC80 Mode	8	8	

3.4BLOCKDIAGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED



3.5DESCRIPTION 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/IC	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45 *2
2	NO	NO	1.8m	Power Line

4.EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipmentspowered 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 groundplane 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.

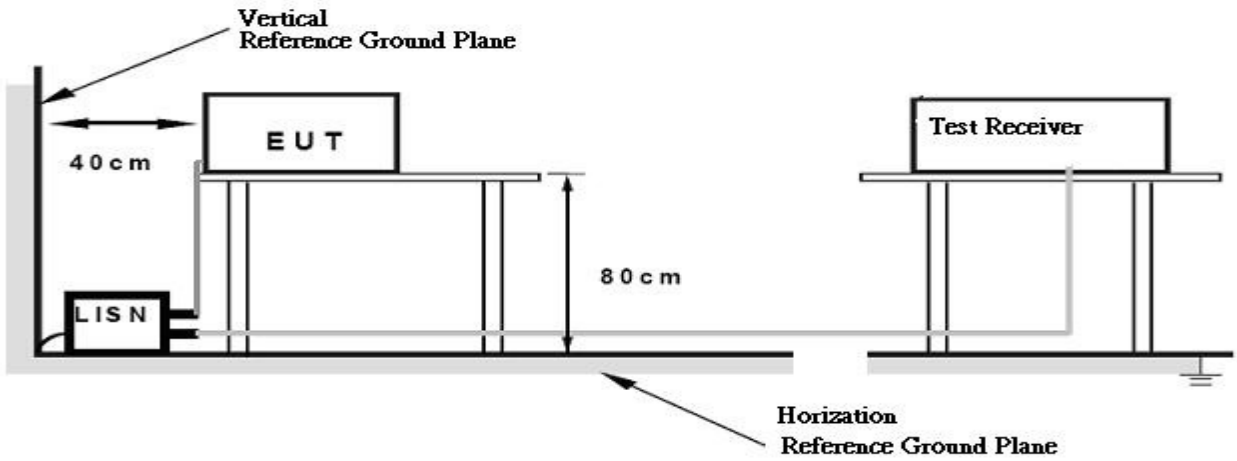
d. LISN at least 80 cm from nearest part of EUT chassis.

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

4.1.3DEVIATIONFROMTESTSTANDARD

No deviation

4.1.4 TESTSETUP



4.1.5EUT OPERATING CONDITIONS

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

4.1.6EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% 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.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5250-5350	-27	68.2
5470-5725	-27	68.2

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

4.2.2 TESTPROCEDURE

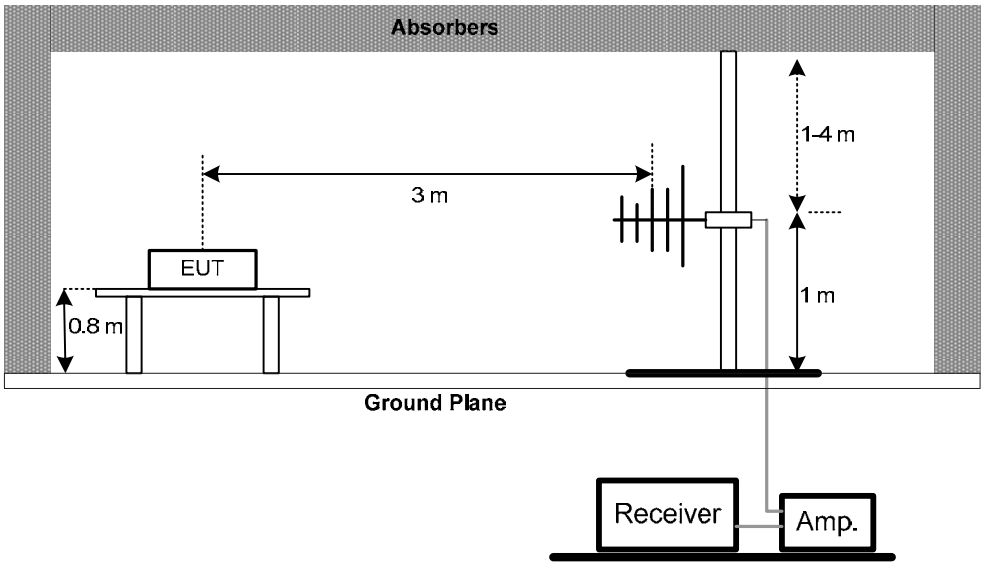
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 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.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3DEVIATIONFROMTESTSTANDARD

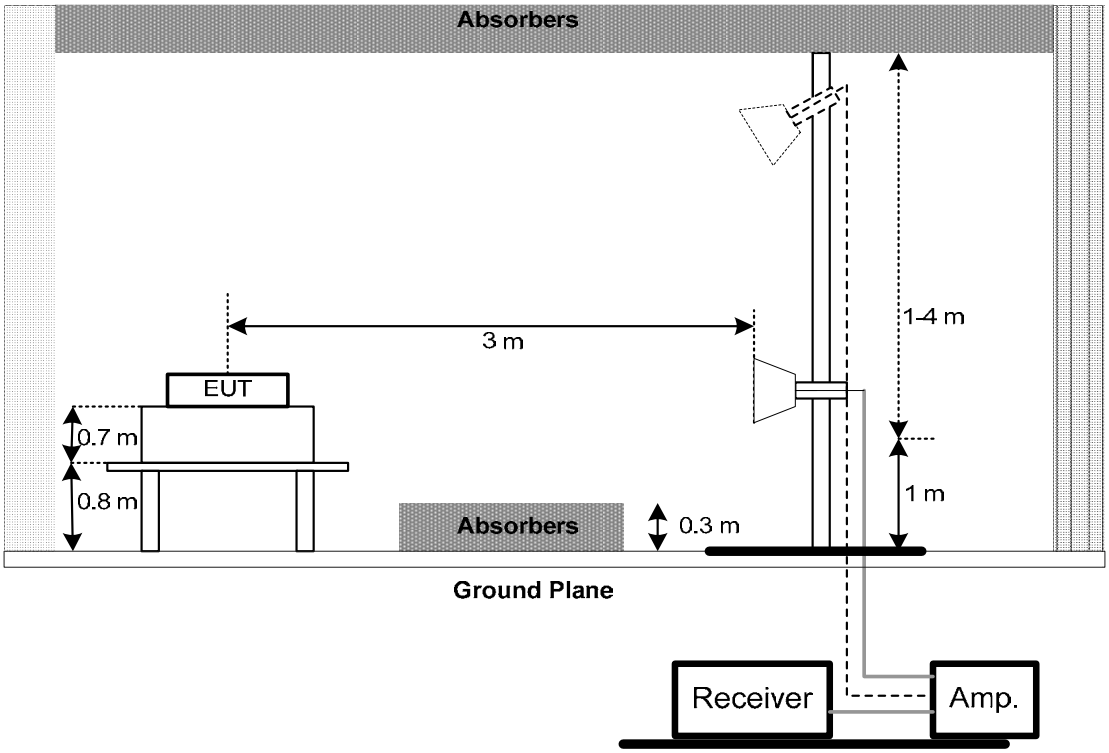
No deviation

4.2.4 TESTSETUP

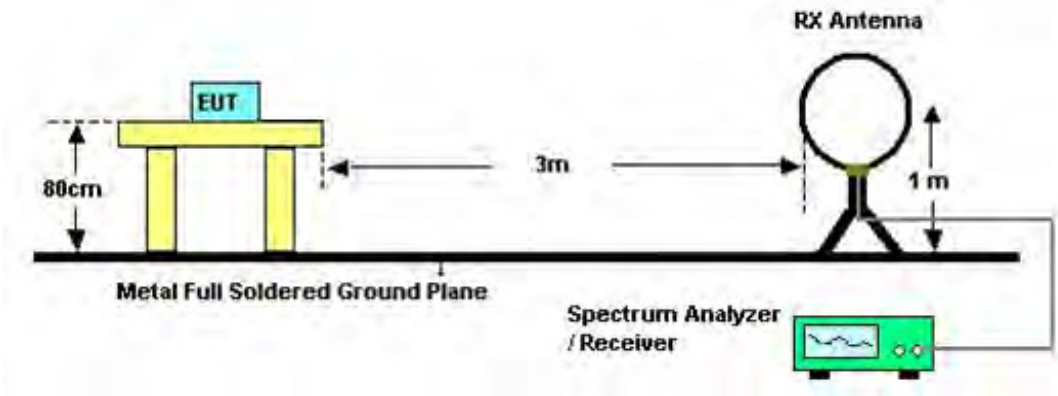
(A) Radiated Emission Test Set-Up Frequency30 - 1000MHz



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



(C) Radiated emissions below 30MHz



4.2.5EUT OPERATING CONDITIONS

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

4.2.6EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% 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 (specific distance / 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) Measuring frequency range from 30MHz to 1000MHz。
(2) If the peak scan value lower limit more than 20dB, then this signal data does not show in table。

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Attachment D.

Remark:

(1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。
(2) 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.
(3) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
(4) EUT Orthogonal Axes:
“X” - denotes Laid on Table；”Y” - denotes Vertical Stand；”Z” - denotes Side Stand
(5) 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.
(6) 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

5.1APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	26 dB Bandwidth	5250-5350	PASS
		5470-5725	PASS

5.1.1TEST PROCEDURE

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

b.

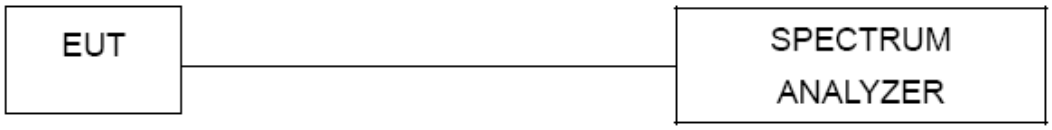
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	300 kHz
VBW	1000 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

5.1.2DEVIATION FROM STANDARD

No deviation.

5.1.3TEST SETUP



5.1.4EUT OPERATION CONDITIONS

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

5.1.5EUT TEST CONDITIONS

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

5.1.6TEST RESULTS

Please refer to the Attachment E.

6.MAXIMUM CONDUCTED OUTPUT POWER

6.1APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Conducted Output Power	250mW (24dBm)	5250-5350	PASS
		5470-5725	PASS

6.1.1TEST PROCEDURE

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

b.

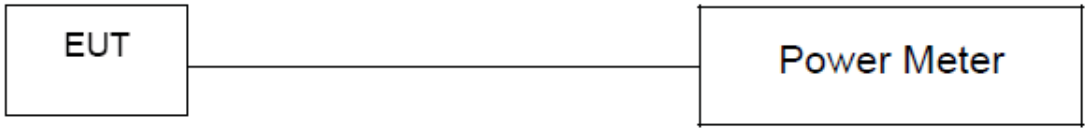
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) ofthe signal
RBW	= 1MHz.
VBW	⩾ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

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

6.1.2DEVIATION FROM STANDARD

No deviation.

6.1.3TEST SETUP



6.1.4EUT OPERATION CONDITIONS

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

6.1.5EUT TEST CONDITIONS

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

6.1.6TEST RESULTS

Please refer to the Attachment F.

7.POWER SPECTRAL DENSITY TEST

7.1APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	11dBm/MHz	5250-5350	PASS
		5470-5725	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,

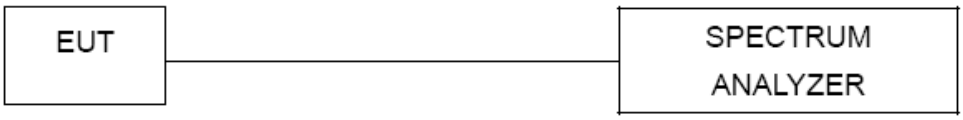
b.

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

7.1.1DEVIATION FROM STANDARD

No deviation.

7.1.2TEST SETUP



7.1.3EUT OPERATION CONDITIONS

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

7.1.4EUT TEST CONDITIONS

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

7.1.5TEST RESULTS

Please refer to the Attachment G.

8.FREQUENCY STABILITY MEASUREMENT

8.1APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Frequency Stability	Specified in the user's manual	5250-5350	PASS
		5470-5725	PASS

8.1.1TEST PROCEDURE

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

b.

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

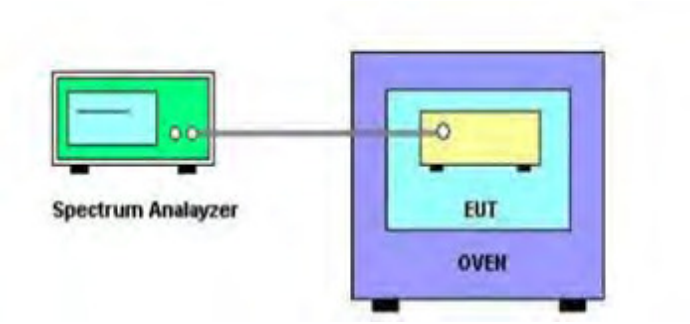
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is -5°C~45°C.

8.1.2DEVIATION FROM STANDARD

No deviation.

8.1.3TEST SETUP



8.1.4EUT OPERATION CONDITIONS

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

8.1.5EUT TEST CONDITIONS

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

8.1.6TEST RESULTS

Please refer to the Attachment H.

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. 25, 2017
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 13, 2017
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 09, 2016
4	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	Spectrum Analyzer	Agilent	N9038A	MY51210215	Jun. 06, 2017
2	Horn Antenna	Schwarzbeck	BBHA 9120	D 546	Nov. 04, 2016
3	Microwave Pre_amplifier	HP	8447D	2944A08891	Mar. 08, 2017
4	Test Cable	EMCI	EMC8D-NM-NM -8000	150301	Mar. 08, 2017
5	Test Cable	EMCI	EMC104-SM-S M-5000	150302	Mar. 08, 2017
6	Test Cable	EMCI	EMC8D-NM-NM -2500	150303	Mar. 08, 2017
7	Test Cable	EMCI	EMC8D-NM-NM -1000	150304	Mar. 08, 2017
8	Test Cable	EMCI	EMC104-SM-S M-800	150305	Mar. 08, 2017
9	Test Cable	EMCI	S104-SMAP-1	130503	Mar. 28, 2017
10	Pre-Amplifier	Agilent	8449B	3008A02331	Jan. 22, 2017
11	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	9168-364	Feb. 03, 2017
12	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0624	Feb. 03. 2017
13	Preamplifier With Adaptor	EMC	EMC2654045	980030	Feb. 14, 2017
14	Loop Antenna	EMCO	6502	00042960	Nov. 15, 2016
15	Spectrum Analyzer	Keysight	N9010A	MY52220990	Feb. 23, 2017
16	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A

Spectrum BandwidthMeasurement					
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 18, 2017
2	Power Meter Sensor	Anritsu	MA2491A	034138	May 18, 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

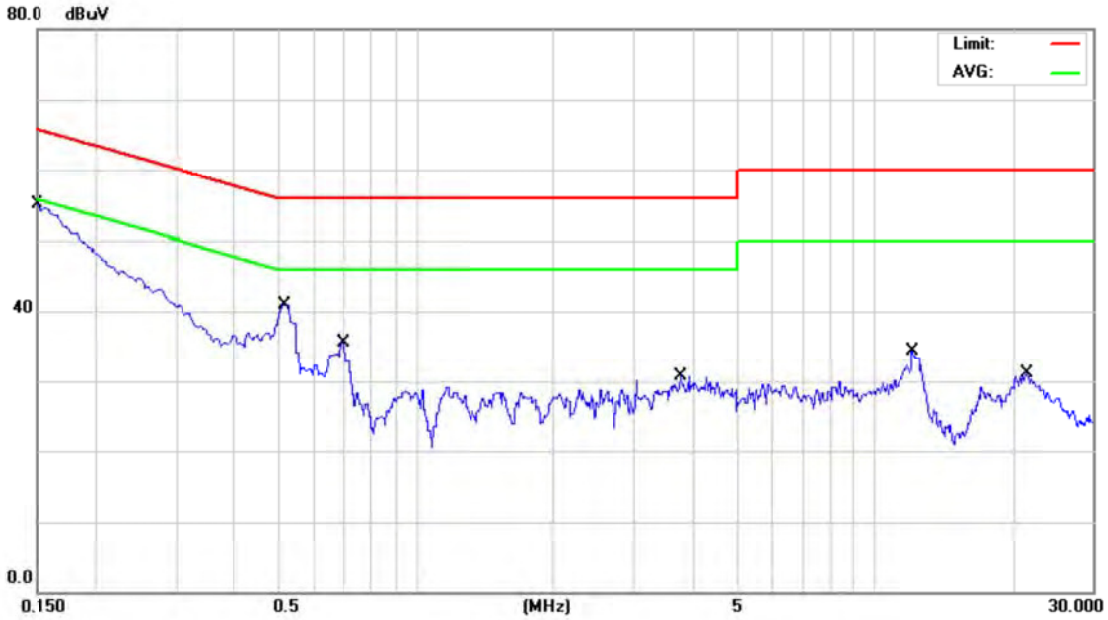
Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

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:	TX MODE

Line

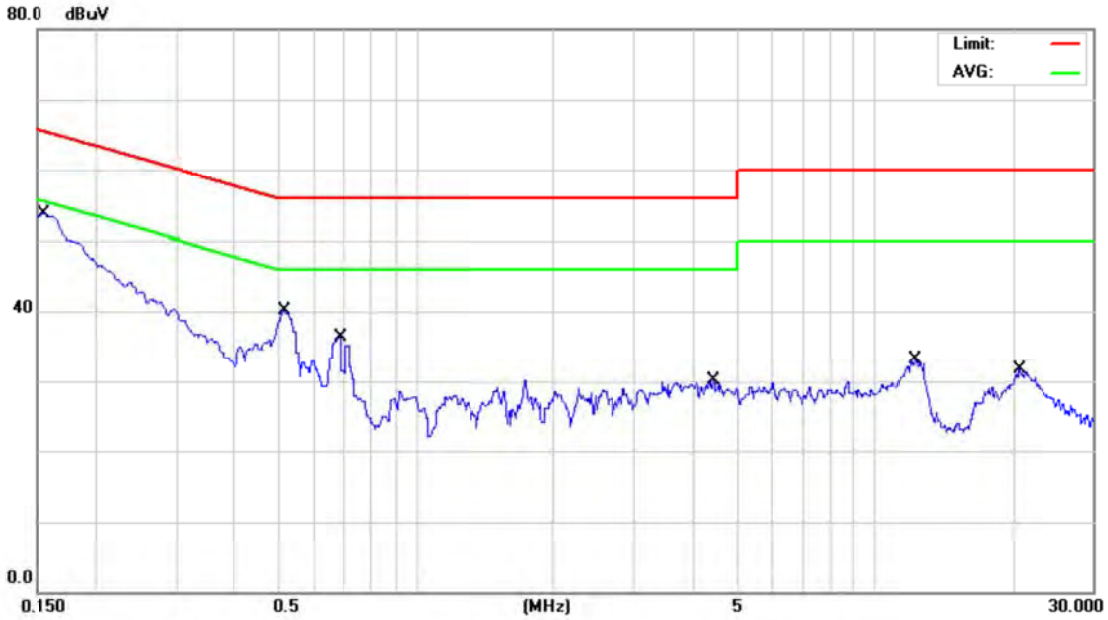


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	33.10	9.68	42.78	65.99	-23.21	QP	
2		0.1500	15.80	9.68	25.48	55.99	-30.51	AVG	
3		0.5180	28.50	9.69	38.19	56.00	-17.81	QP	
4	*	0.5180	24.40	9.69	34.09	46.00	-11.91	AVG	
5		0.6980	19.50	9.70	29.20	56.00	-26.80	QP	
6		0.6980	12.20	9.70	21.90	46.00	-24.10	AVG	
7		3.7490	14.30	9.85	24.15	56.00	-31.85	QP	
8		3.7490	9.00	9.85	18.85	46.00	-27.15	AVG	
9		12.1500	19.10	9.92	29.02	60.00	-30.98	QP	
10		12.1500	13.90	9.92	23.82	50.00	-26.18	AVG	
11		21.4500	16.00	9.94	25.94	60.00	-34.06	QP	
12		21.4500	11.70	9.94	21.64	50.00	-28.36	AVG	

Note：The test result has included the cable loss.

Test Mode:	TX MODE

Neutral



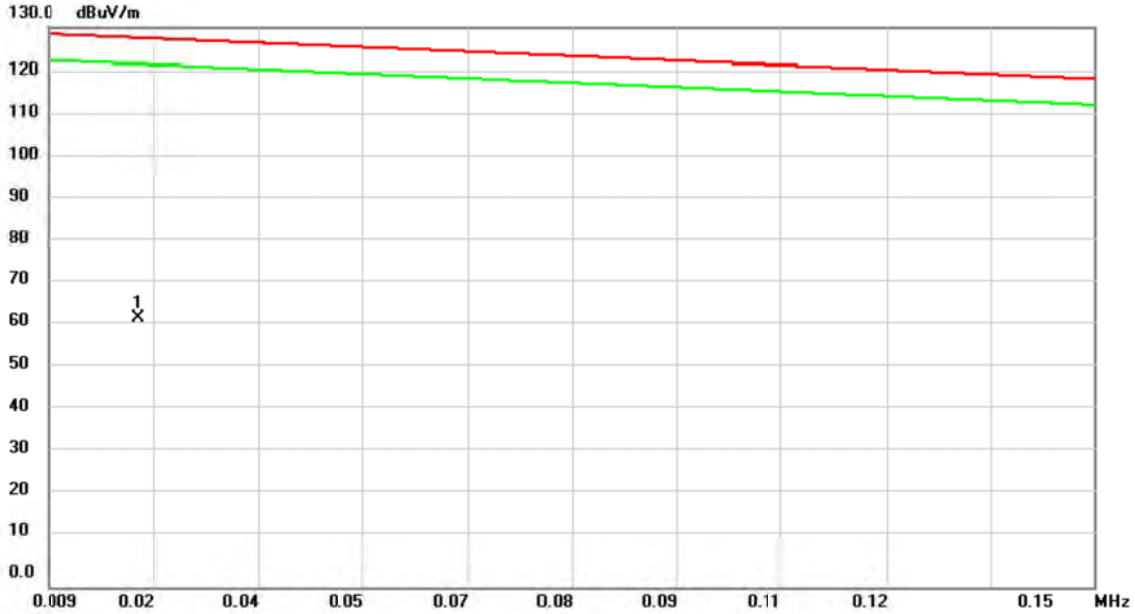
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1556	35.50	9.69	45.19	65.69	-20.50	QP	
2		0.1556	18.20	9.69	27.89	55.69	-27.80	AVG	
3		0.5180	27.90	9.69	37.59	56.00	-18.41	QP	
4	*	0.5180	23.40	9.69	33.09	46.00	-12.91	AVG	
5		0.6889	19.70	9.70	29.40	56.00	-26.60	QP	
6		0.6889	13.90	9.70	23.60	46.00	-22.40	AVG	
7		4.4240	14.10	9.87	23.97	56.00	-32.03	QP	
8		4.4240	9.30	9.87	19.17	46.00	-26.83	AVG	
9		12.3500	18.40	9.92	28.32	60.00	-31.68	QP	
10		12.3500	13.10	9.92	23.02	50.00	-26.98	AVG	
11		20.6000	16.50	9.93	26.43	60.00	-33.57	QP	
12		20.6000	12.20	9.93	22.13	50.00	-27.87	AVG	

Note：The test result has included the cable loss.

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

Test Mode:	TX Mode

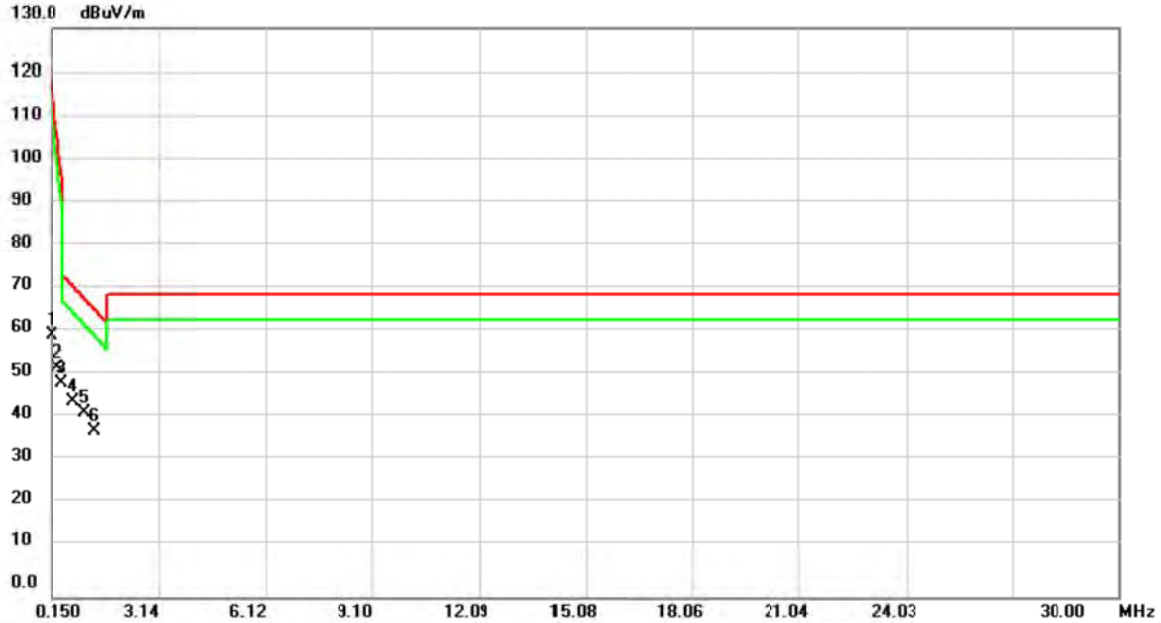
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0212	45.16	17.42	62.58	127.64	-65.06	peak	

Test Mode:	TX Mode

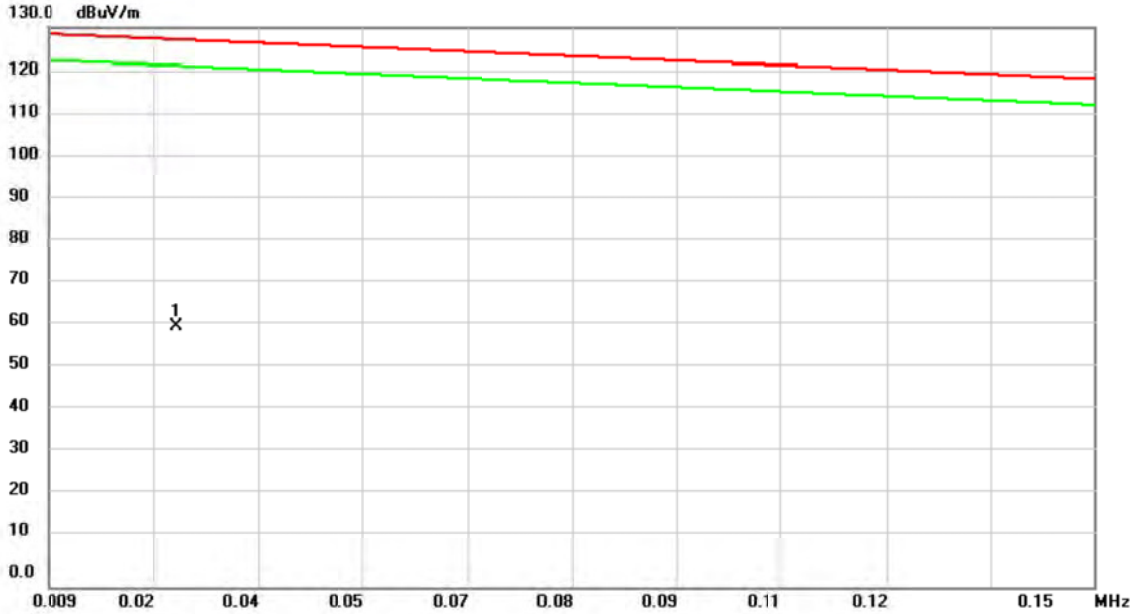
Open



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		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		0.3291	40.93	11.80	52.73	105.41	-52.68	peak	
3		0.4485	37.41	11.80	49.21	96.80	-47.59	peak	
4		0.7470	33.04	11.90	44.94	71.51	-26.57	peak	
5	*	1.0750	30.36	11.97	42.33	68.59	-26.26	peak	
6		1.3733	26.48	11.83	38.31	65.93	-27.62	peak	

Test Mode:	TX Mode

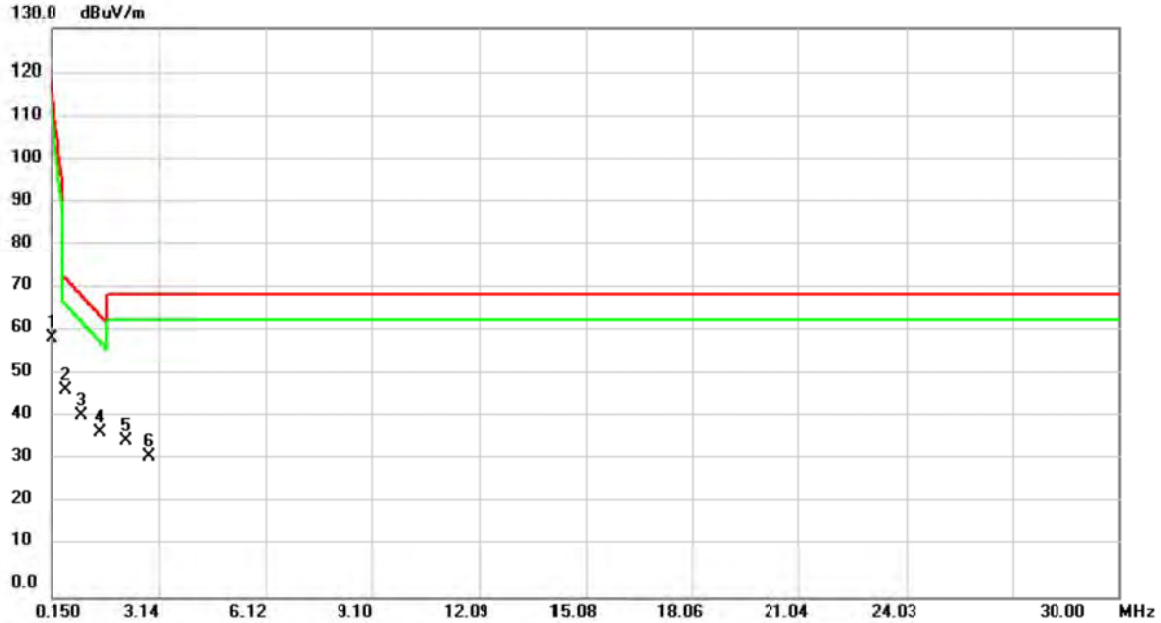
Close



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0262	44.44	16.04	60.48	127.28	-66.80	peak	

Test Mode:	TX Mode

Close

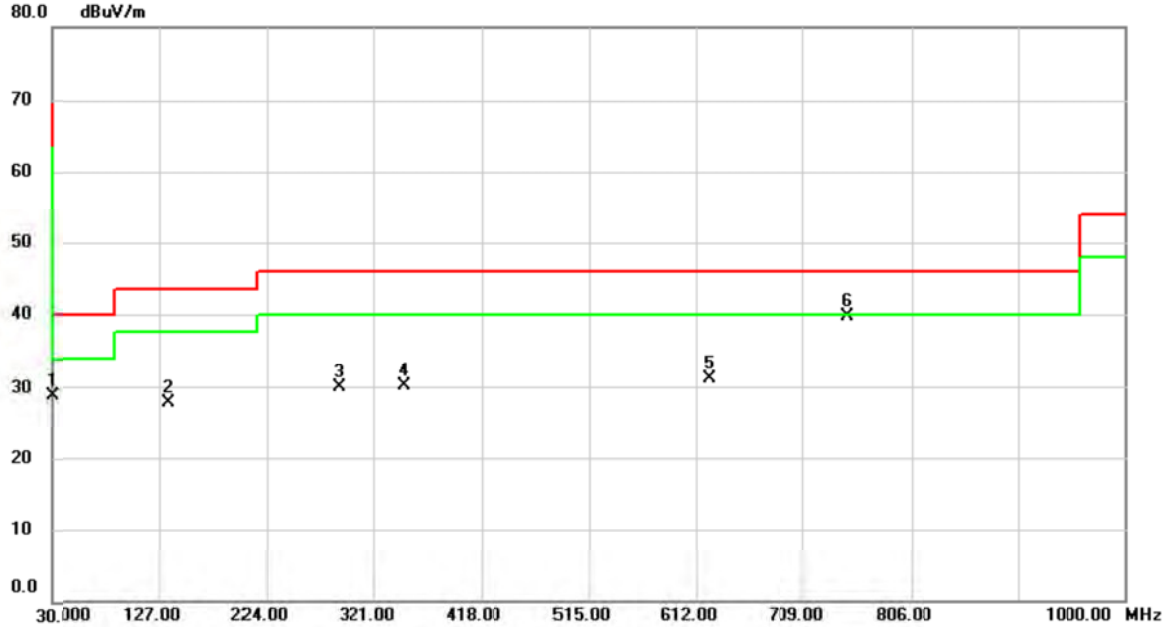


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
2	*	0.5675	35.78	11.83	47.61	73.11	-25.50	peak	
3		0.9858	29.83	11.99	41.82	69.38	-27.56	peak	
4		1.5230	26.24	11.76	38.00	64.59	-26.59	peak	
5		2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
6		2.8664	21.25	11.16	32.41	69.54	-37.13	peak	

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

Test Mode:	TX A Mode 5300MHz

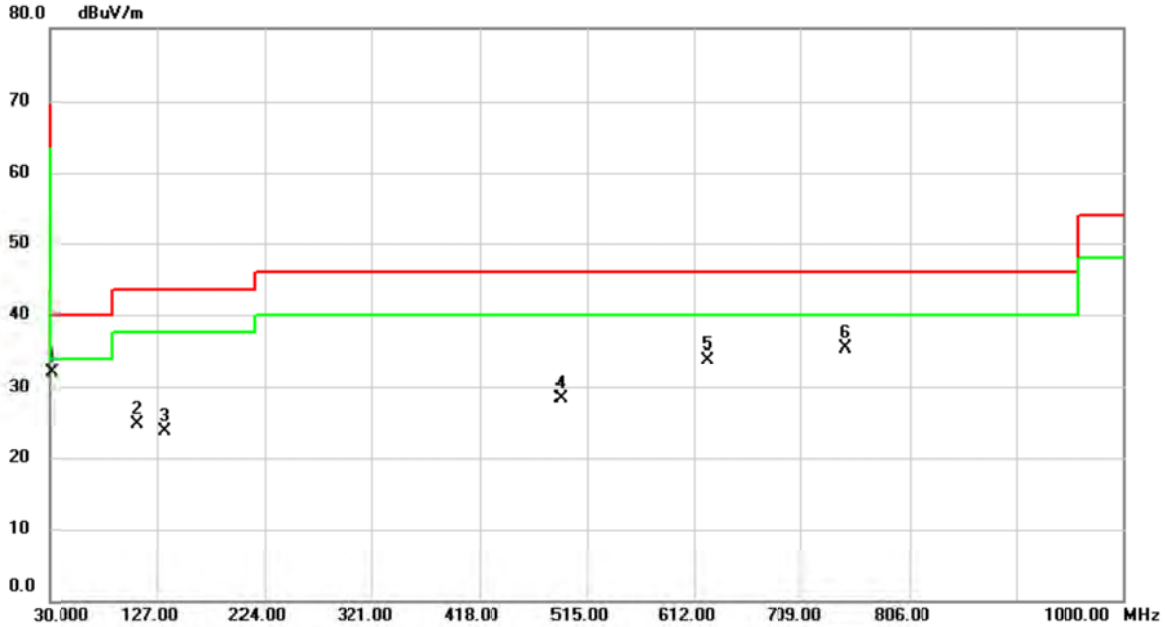
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.9700	37.79	-8.92	28.87	40.00	-11.13	peak	
2		135.7300	36.75	-9.03	27.72	43.50	-15.78	peak	
3		289.9600	37.46	-7.62	29.84	46.00	-16.16	peak	
4		349.1300	36.07	-6.01	30.06	46.00	-15.94	peak	
5		624.6100	31.14	-0.02	31.12	46.00	-14.88	peak	
6	*	749.7400	37.31	2.33	39.64	46.00	-6.36	peak	

Test Mode:	TX A Mode 5300MHz

Horizontal

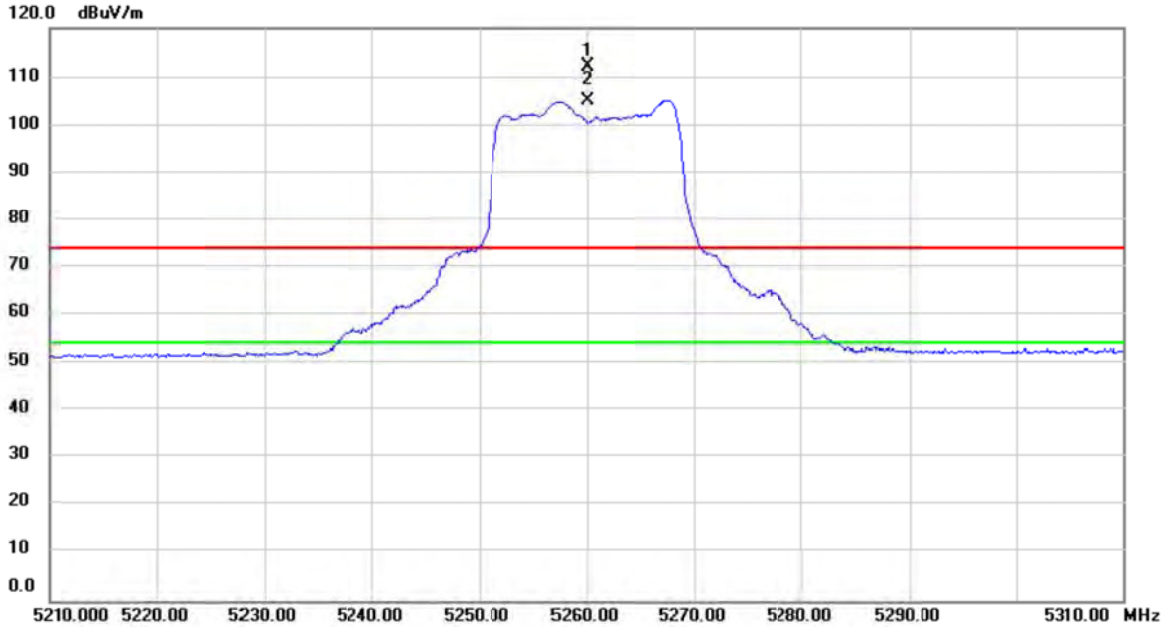


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	31.9400	41.00	-8.93	32.07	40.00	-7.93	peak	
2		109.5400	35.76	-11.15	24.61	43.50	-18.89	peak	
3		133.7900	32.89	-9.22	23.67	43.50	-19.83	peak	
4		492.6900	31.03	-2.78	28.25	46.00	-17.75	peak	
5		624.6100	33.78	-0.02	33.76	46.00	-12.24	peak	
6		749.7400	32.91	2.33	35.24	46.00	-10.76	peak	

ATTACHMENT D -RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5260MHz

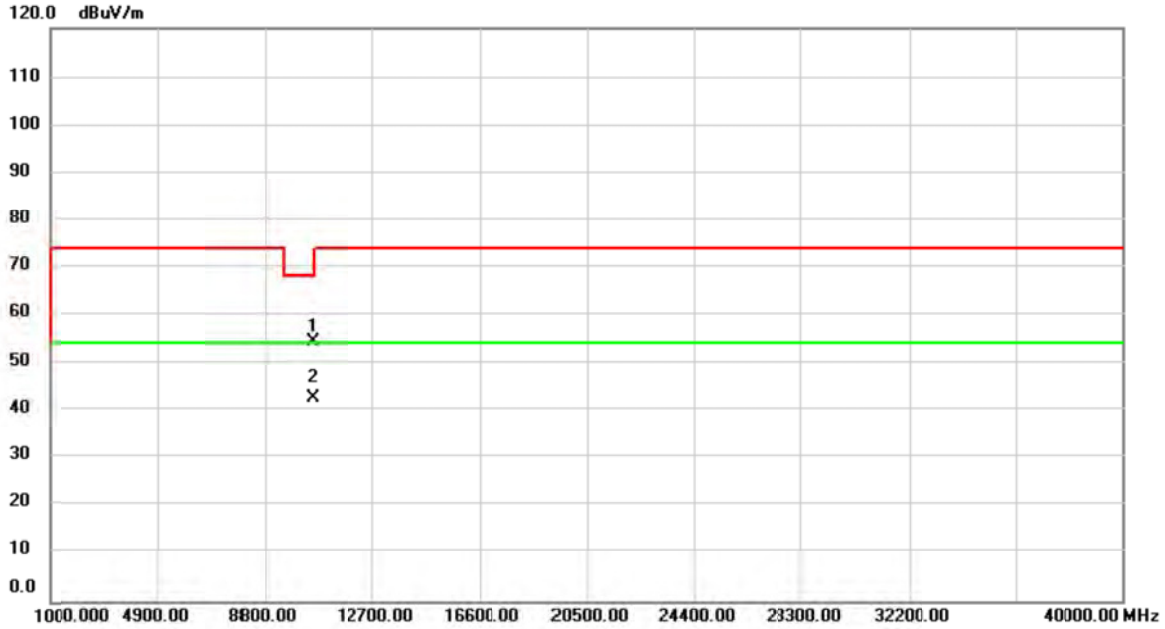
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	73.57	38.58	112.15	74.00	38.15	peak	No Limit
2	*	5260.000	66.67	38.58	105.25	54.00	51.25	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5260MHz

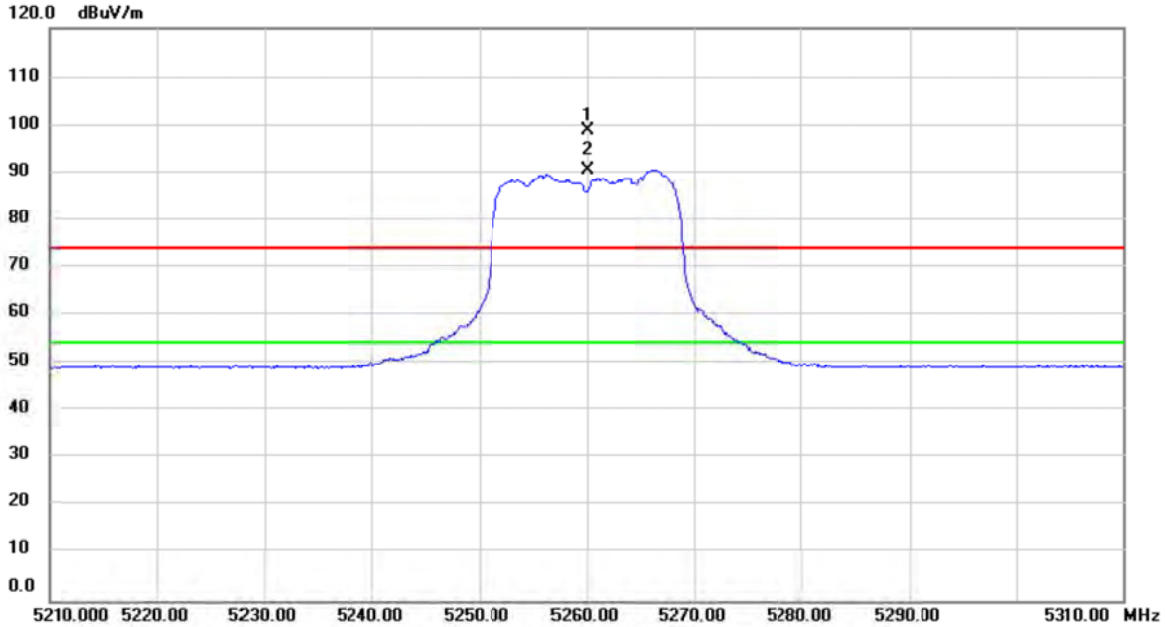
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10520.00	51.22	3.25	54.47	68.20	-13.73	peak	
2	*	10520.00	39.44	3.25	42.69	54.00	-11.31	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5260MHz

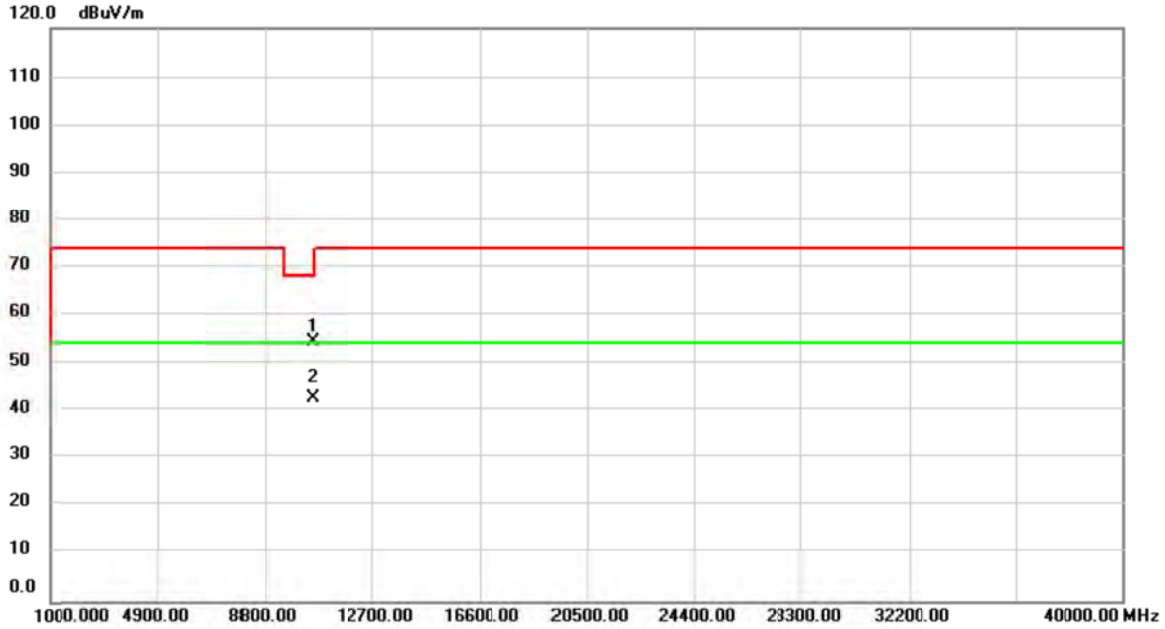
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	60.32	38.58	98.90	74.00	24.90	peak	No Limit
2	*	5260.000	51.96	38.58	90.54	54.00	36.54	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5260MHz

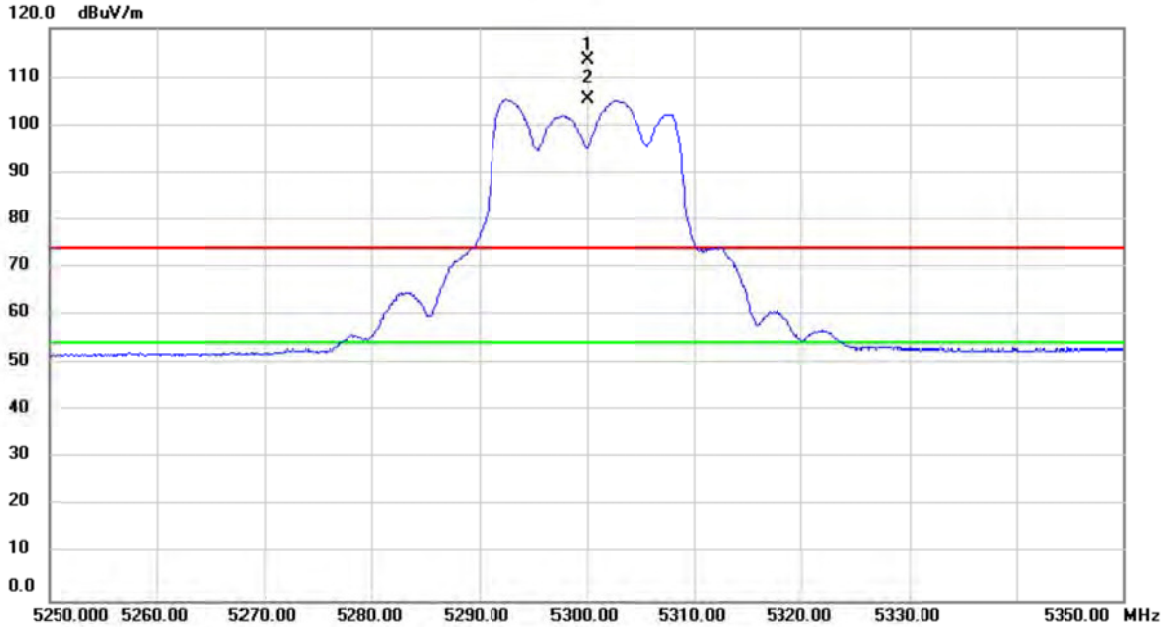
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10520.00	51.26	3.25	54.51	68.20	-13.69	peak	
2	*	10520.00	39.50	3.25	42.75	54.00	-11.25	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

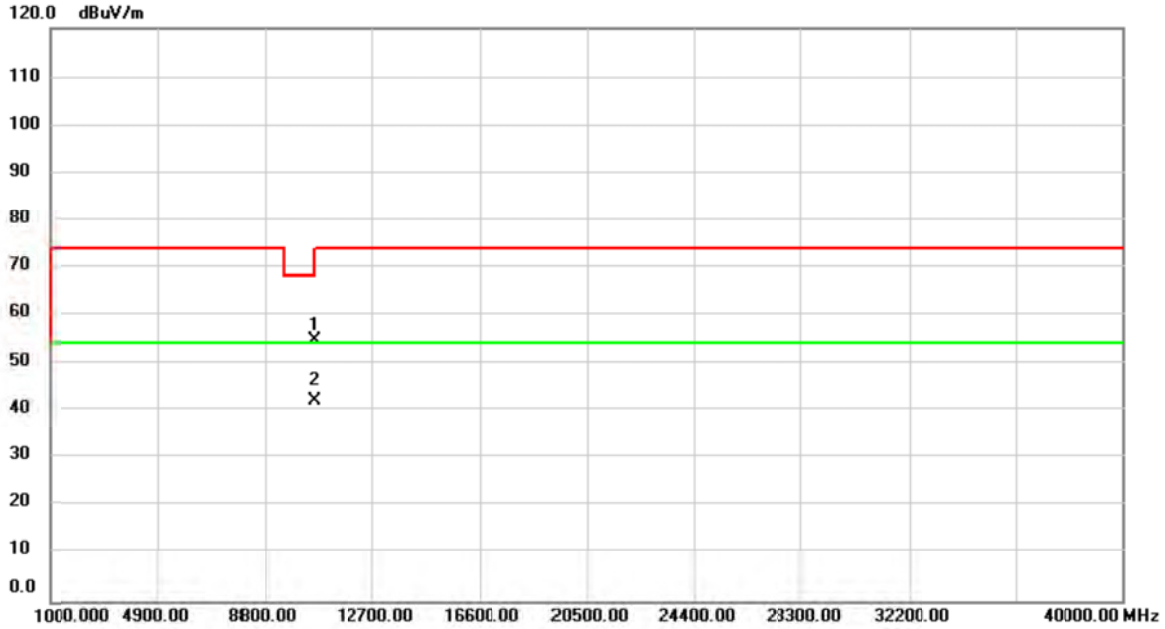
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	74.65	38.63	113.28	74.00	39.28	peak	No Limit
2	*	5300.000	66.75	38.63	105.38	54.00	51.38	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

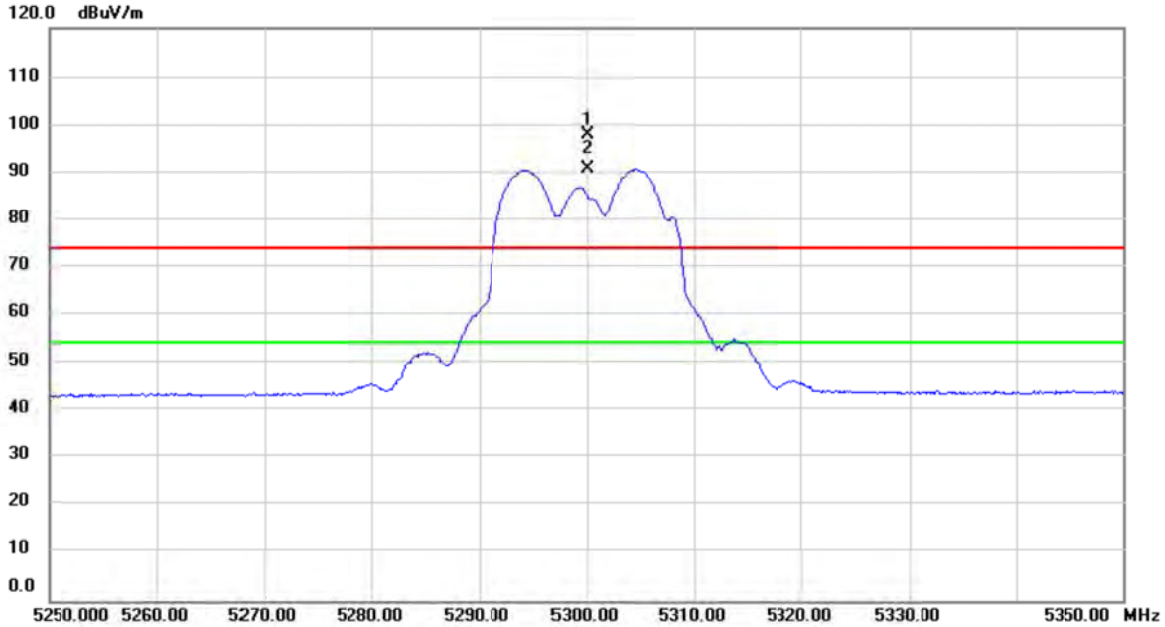
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	51.24	3.42	54.66	68.20	-13.54	peak	
2	*	10600.00	38.78	3.42	42.20	54.00	-11.80	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

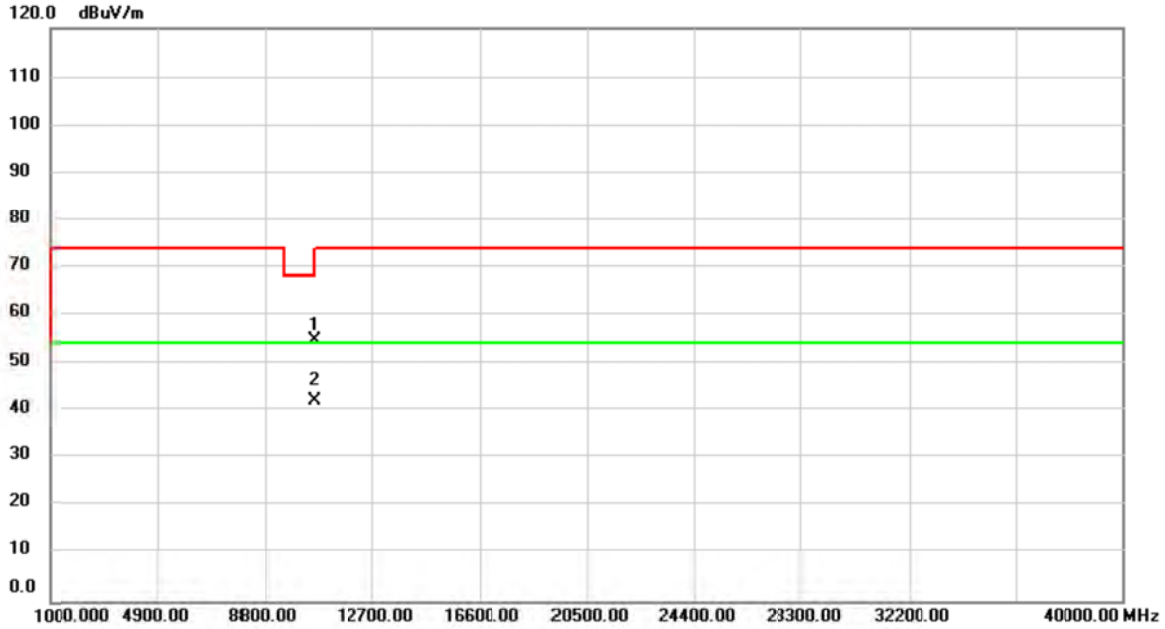
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	59.41	38.63	98.04	74.00	24.04	peak	No Limit
2	*	5300.000	52.17	38.63	90.80	54.00	36.80	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

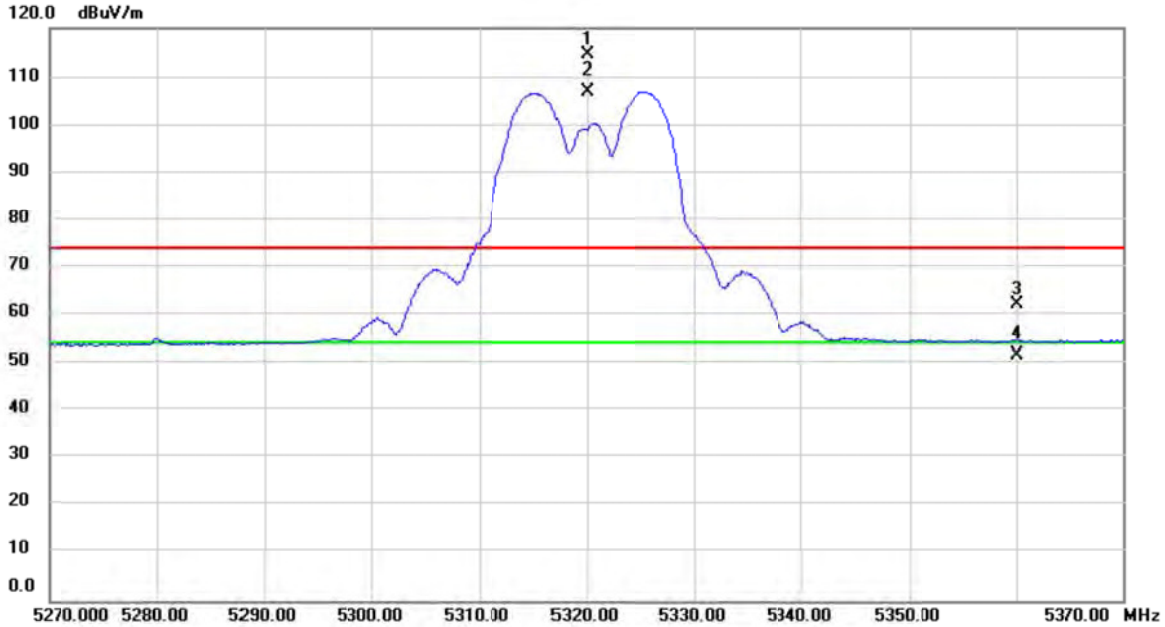
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	51.31	3.42	54.73	68.20	-13.47	peak	
2	*	10600.00	38.83	3.42	42.25	54.00	-11.75	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5320MHz

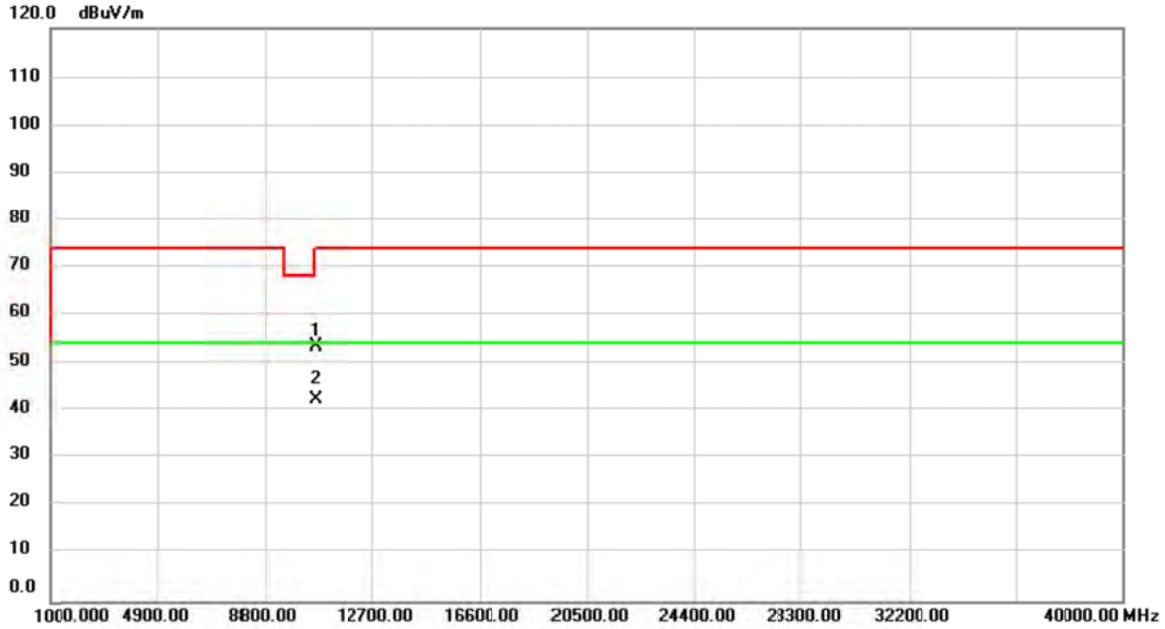
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5320.000	75.71	38.66	114.37	74.00	40.37	peak	No Limit
2	*	5320.000	68.34	38.66	107.00	54.00	53.00	AVG	No Limit
3		5360.080	23.52	38.70	62.22	74.00	-11.78	peak	
4		5360.080	13.01	38.70	51.71	54.00	-2.29	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5320MHz

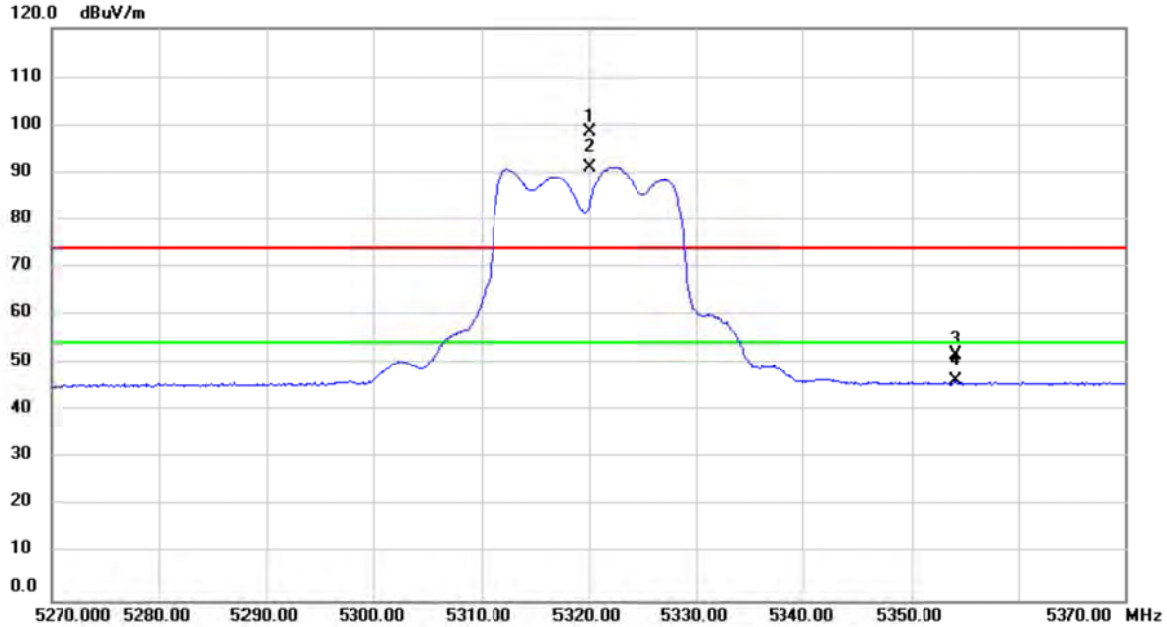
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	49.91	3.51	53.42	74.00	-20.58	peak	
2	*	10640.00	38.82	3.51	42.33	54.00	-11.67	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5320MHz

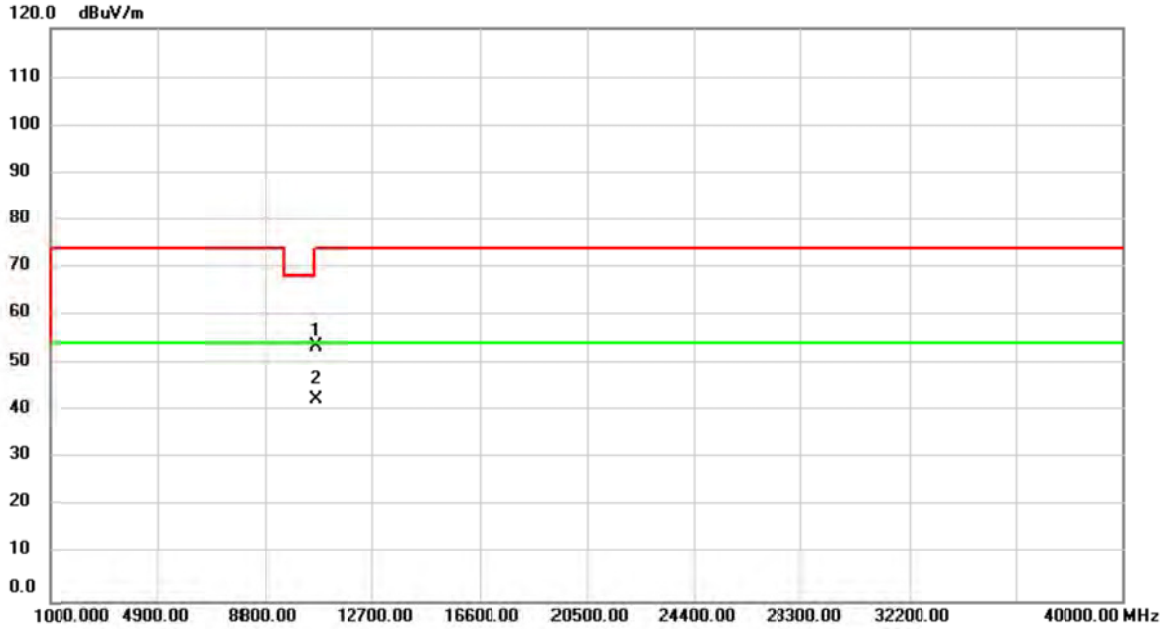
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5320.000	59.78	38.66	98.44	74.00	24.44	peak	No Limit
2	*	5320.000	52.53	38.66	91.19	54.00	37.19	AVG	No Limit
3		5354.200	13.03	38.69	51.72	74.00	-22.28	peak	
4		5354.200	7.53	38.69	46.22	54.00	-7.78	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5320MHz

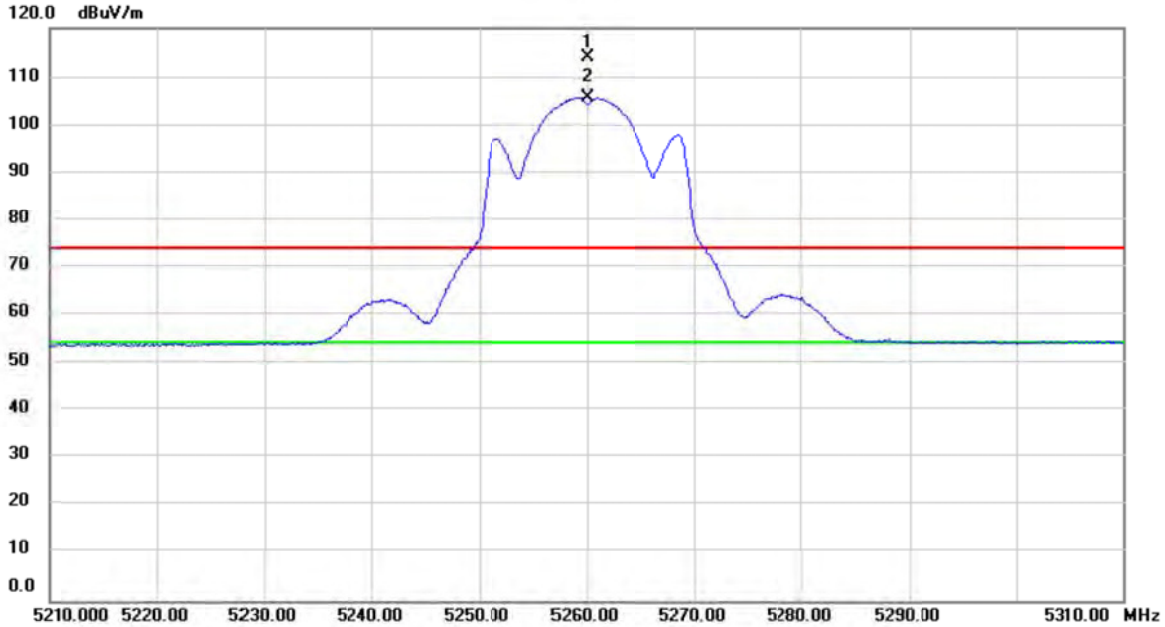
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	50.01	3.51	53.52	74.00	-20.48	peak	
2	*	10640.00	38.84	3.51	42.35	54.00	-11.65	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5260MHz

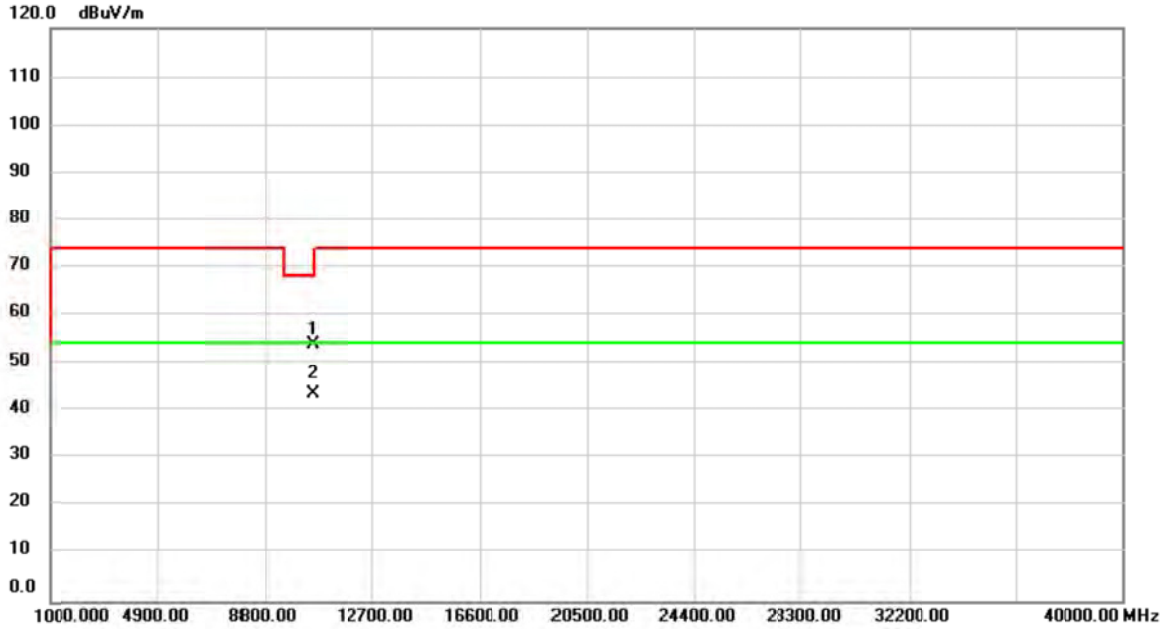
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	75.38	38.58	113.96	74.00	39.96	peak	No Limit
2	*	5260.000	67.28	38.58	105.86	54.00	51.86	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5260MHz

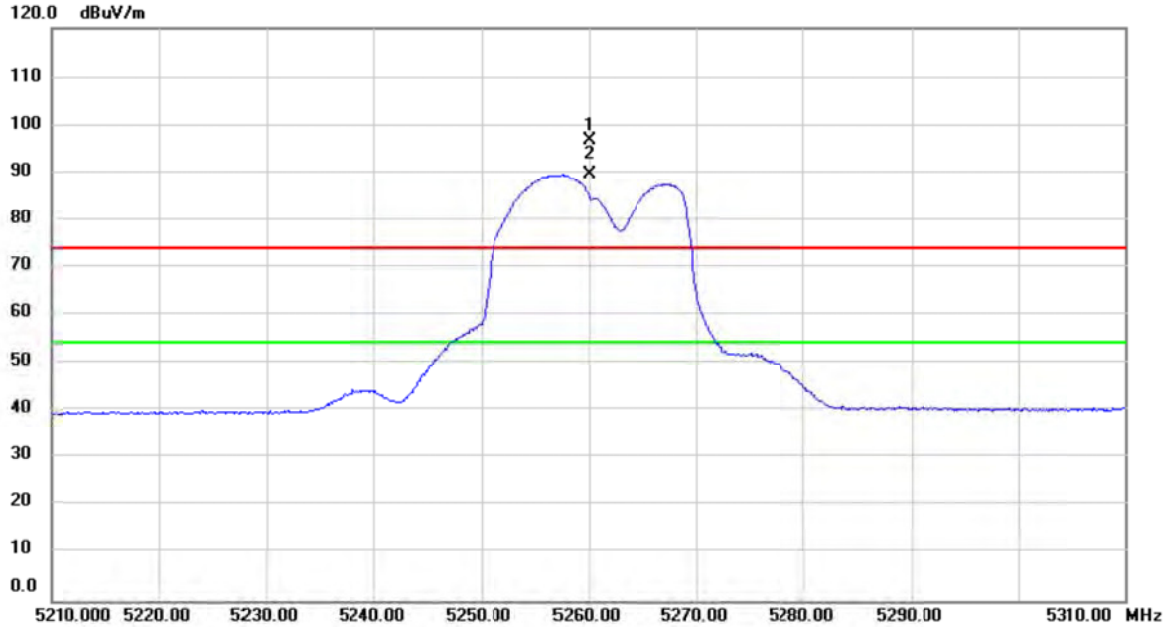
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10520.00	50.45	3.25	53.70	68.20	-14.50	peak	
2	*	10520.00	40.33	3.25	43.58	54.00	-10.42	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5260MHz

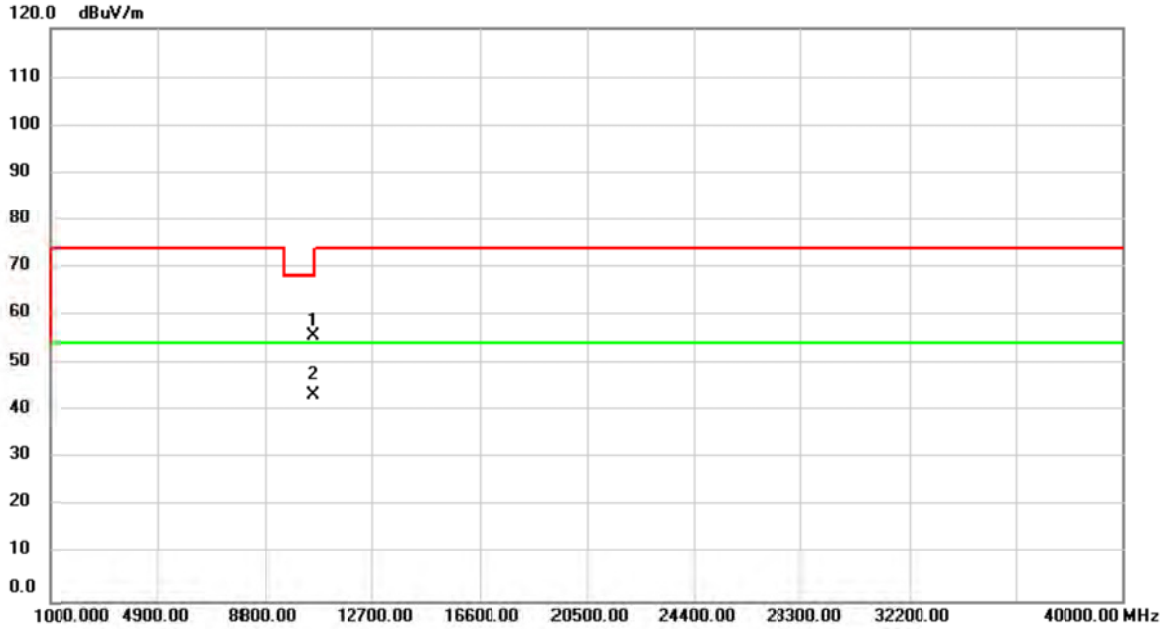
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	58.31	38.58	96.89	74.00	22.89	peak	No Limit
2	*	5260.000	50.85	38.58	89.43	54.00	35.43	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5260MHz

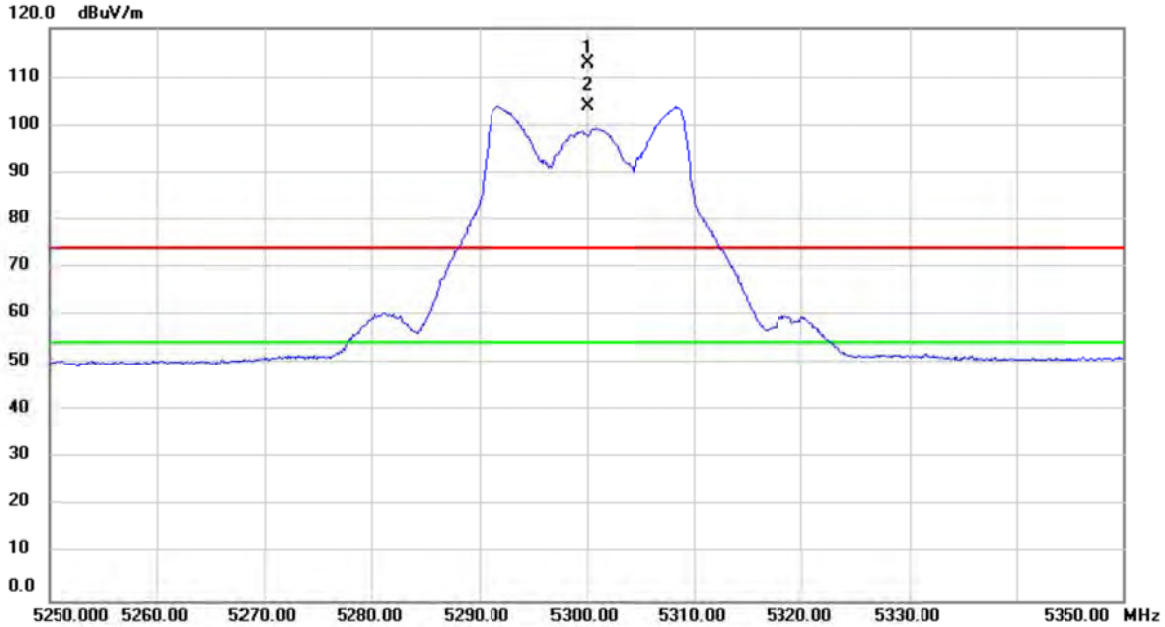
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10520.00	52.49	3.25	55.74	68.20	-12.46	peak	
2	*	10520.00	40.20	3.25	43.45	54.00	-10.55	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

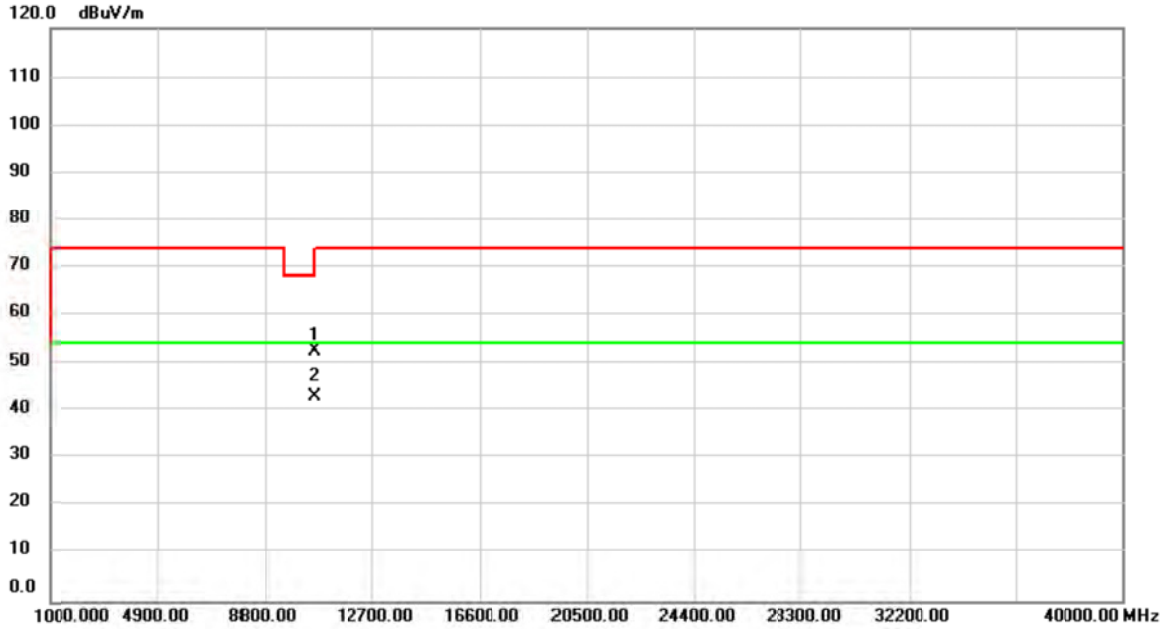
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	73.92	38.63	112.55	74.00	38.55	peak	No Limit
2	*	5300.000	65.28	38.63	103.91	54.00	49.91	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

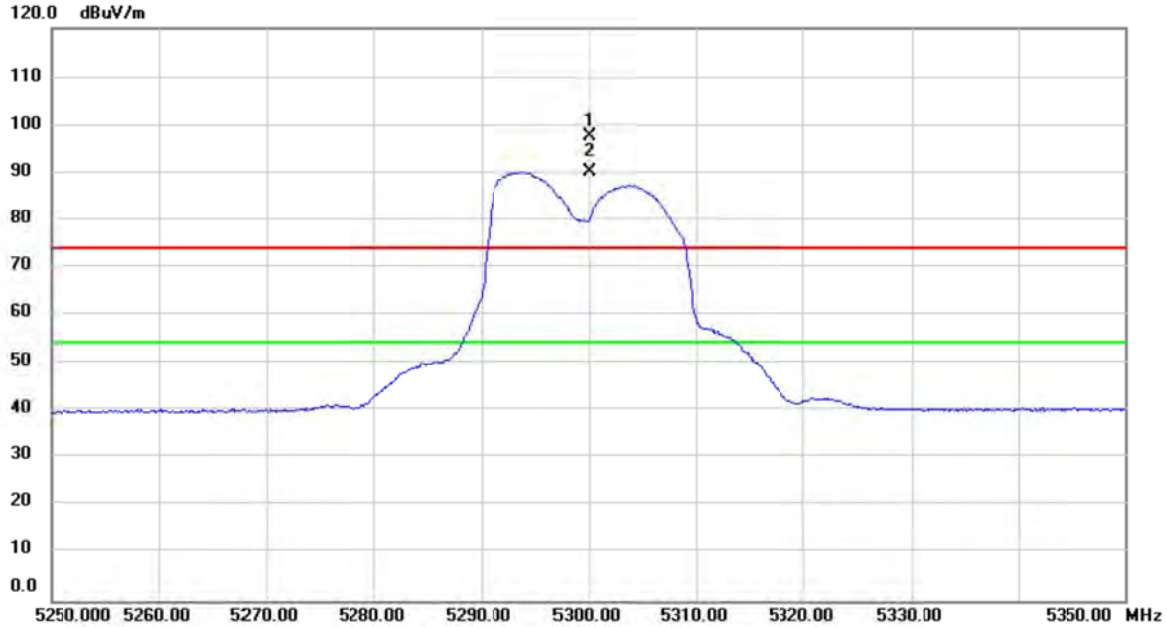
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	49.37	3.42	52.79	68.20	-15.41	peak	
2	*	10600.00	39.65	3.42	43.07	54.00	-10.93	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

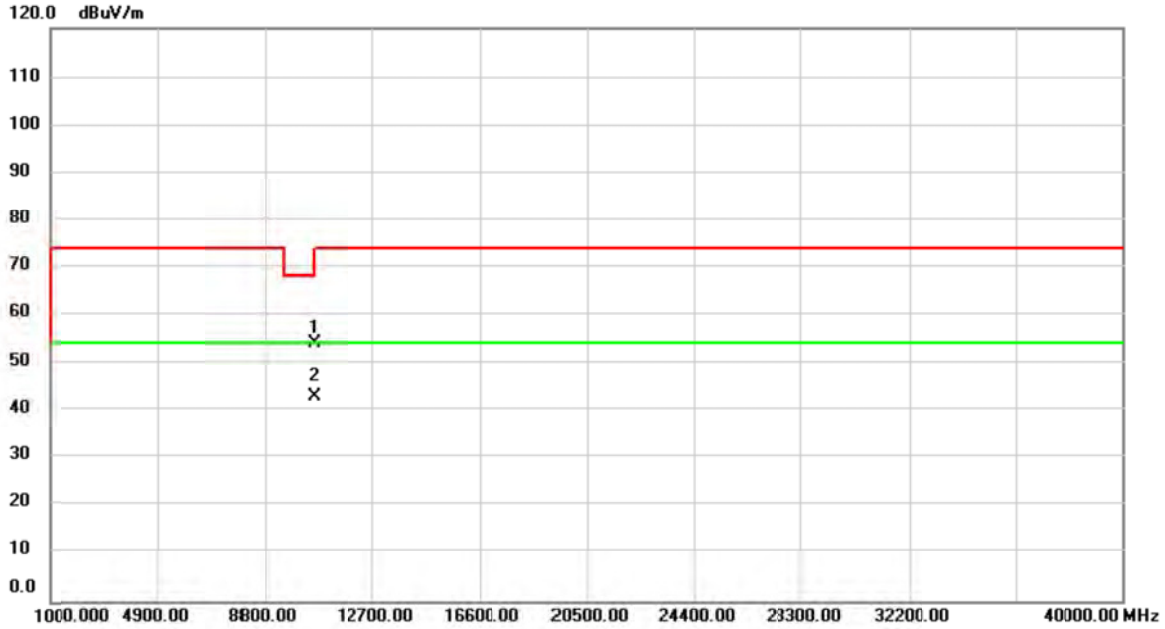
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	58.88	38.63	97.51	74.00	23.51	peak	No Limit
2	*	5300.000	51.42	38.63	90.05	54.00	36.05	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

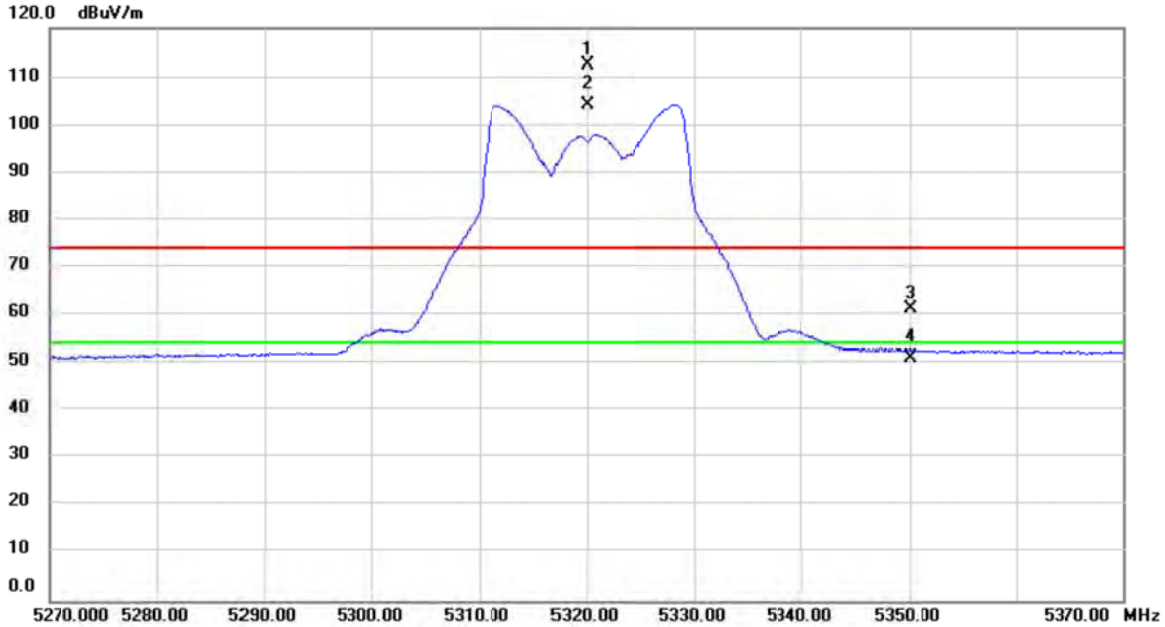
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	50.84	3.42	54.26	68.20	-13.94	peak	
2	*	10600.00	39.49	3.42	42.91	54.00	-11.09	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5320MHz

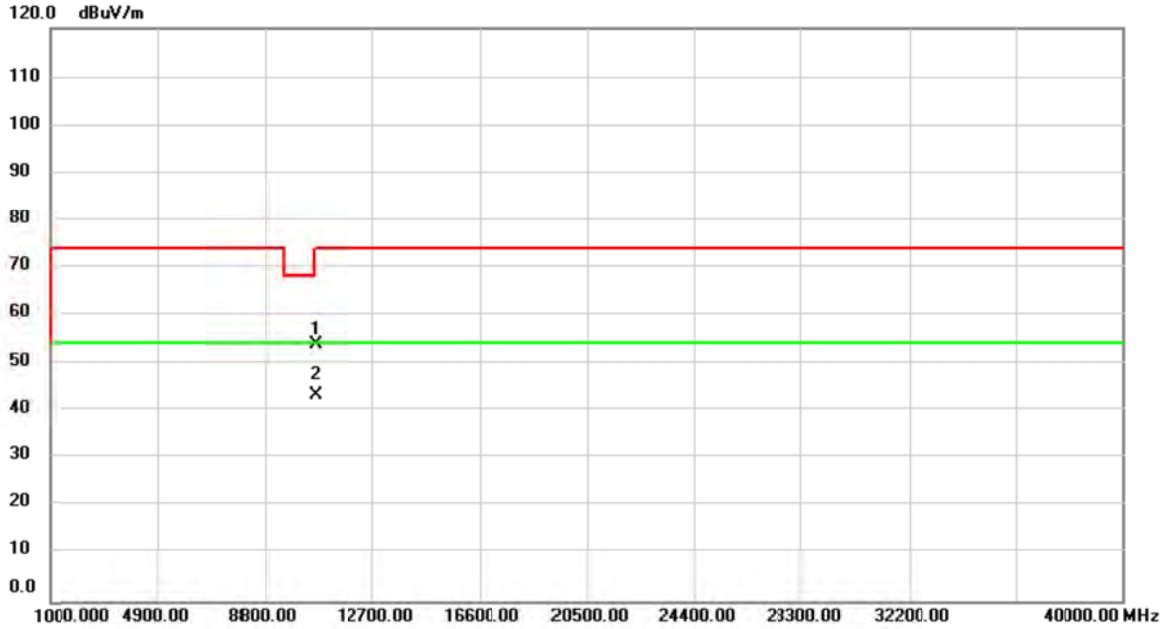
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5320.000	73.63	38.66	112.29	74.00	38.29	peak	No Limit
2	*	5320.000	65.51	38.66	104.17	54.00	50.17	AVG	No Limit
3		5350.000	22.76	38.69	61.45	74.00	-12.55	peak	
4		5350.000	12.52	38.69	51.21	54.00	-2.79	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5320MHz

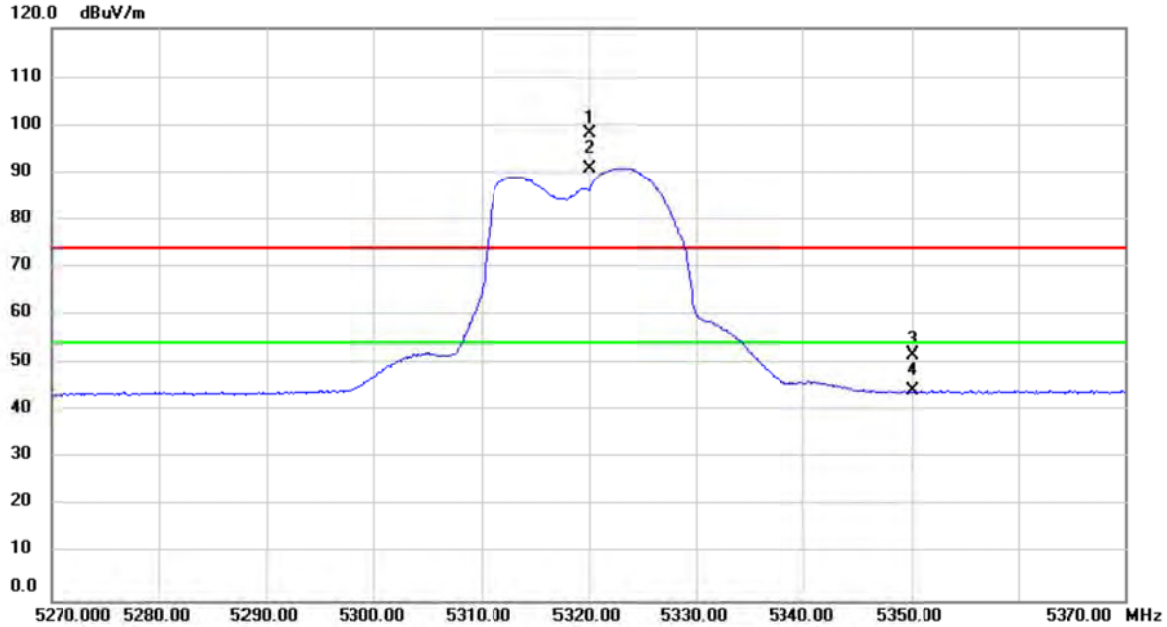
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	50.25	3.51	53.76	74.00	-20.24	peak	
2	*	10640.00	39.76	3.51	43.27	54.00	-10.73	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5320MHz

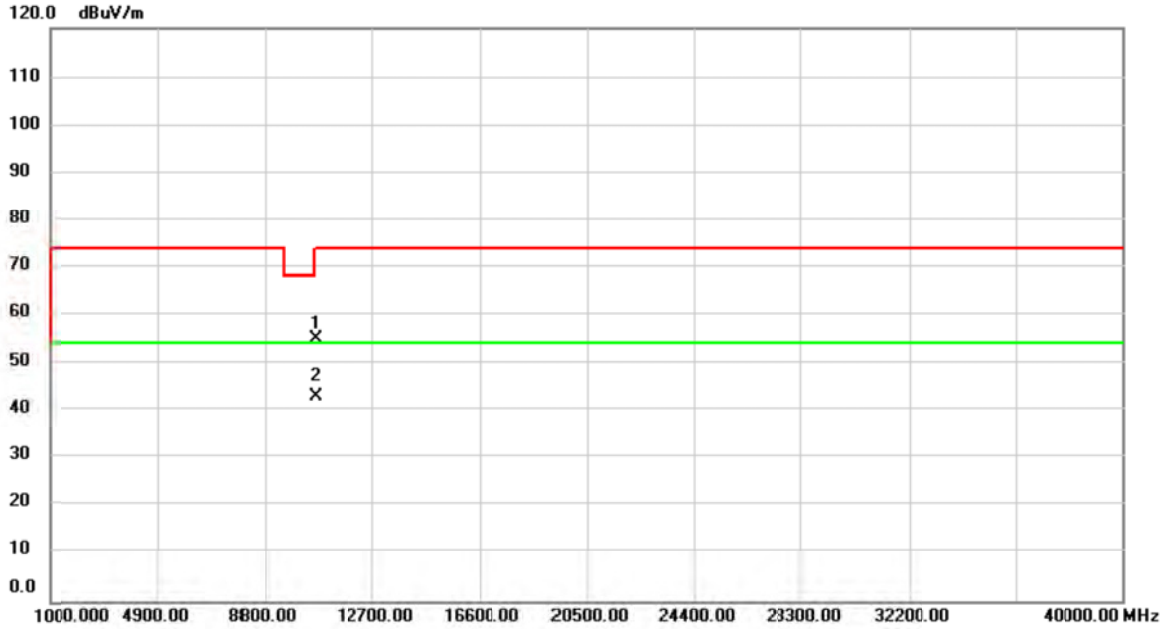
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5320.000	59.69	38.66	98.35	74.00	24.35	peak	No Limit
2	*	5320.000	52.18	38.66	90.84	54.00	36.84	AVG	No Limit
3		5350.000	13.01	38.69	51.70	74.00	-22.30	peak	
4		5350.000	5.65	38.69	44.34	54.00	-9.66	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N20 Mode 5320MHz

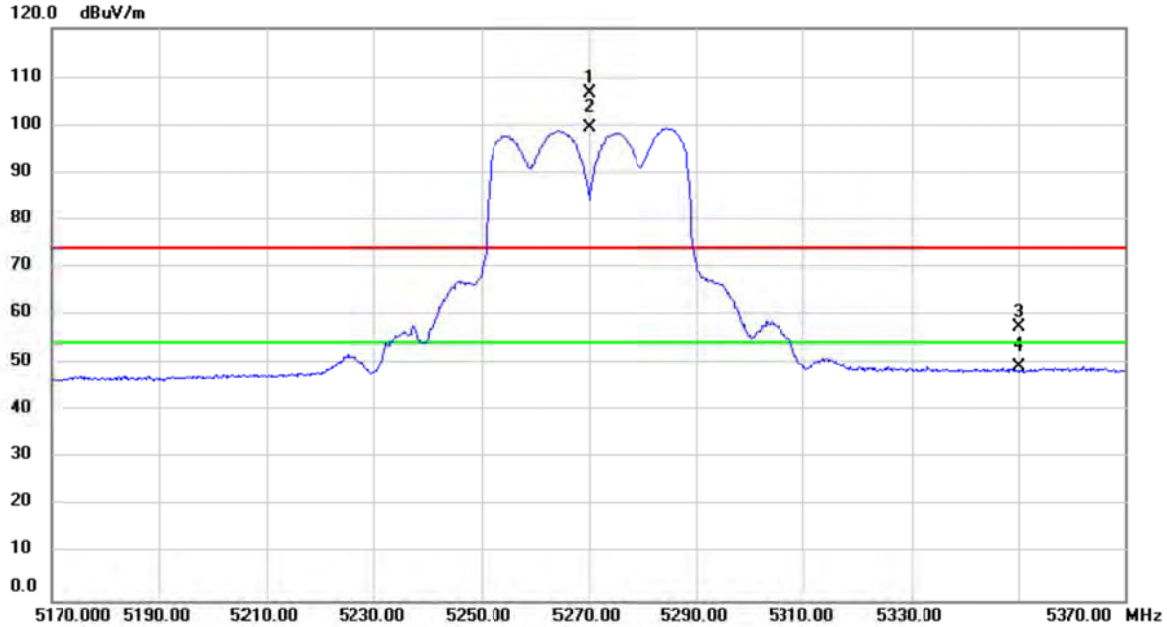
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	51.59	3.51	55.10	74.00	-18.90	peak	
2	*	10640.00	39.59	3.51	43.10	54.00	-10.90	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N40 Mode 5270MHz

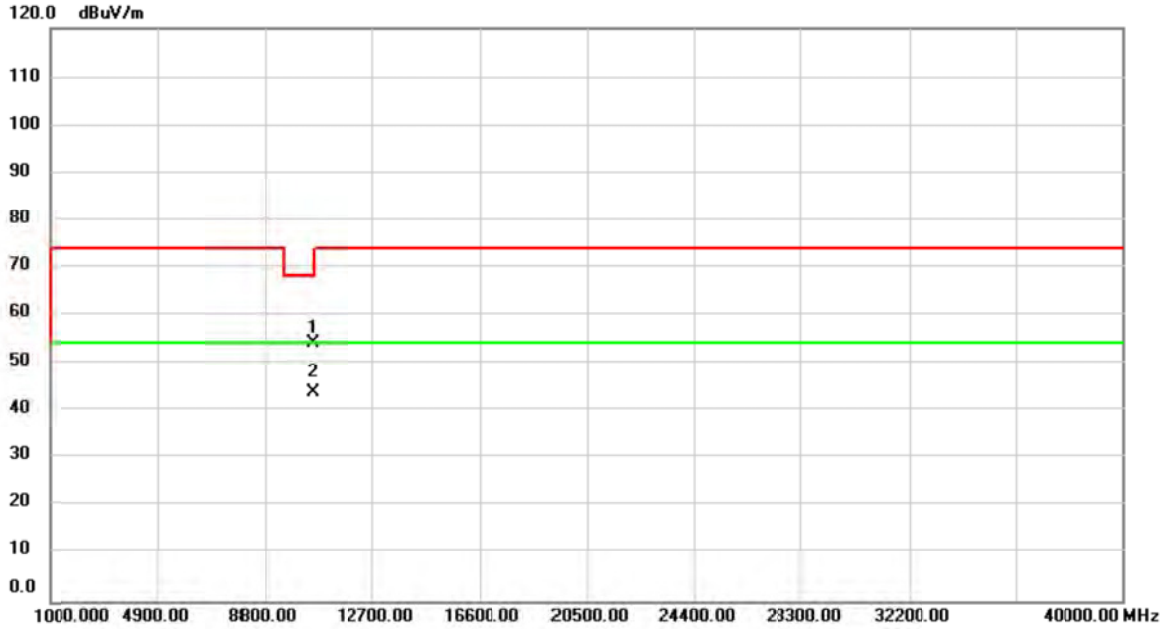
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5270.000	68.07	38.60	106.67	74.00	32.67	peak	No Limit
2	*	5270.000	60.74	38.60	99.34	54.00	45.34	AVG	No Limit
3		5350.000	18.82	38.69	57.51	74.00	-16.49	peak	
4		5350.000	10.51	38.69	49.20	54.00	-4.80	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N40 Mode 5270MHz

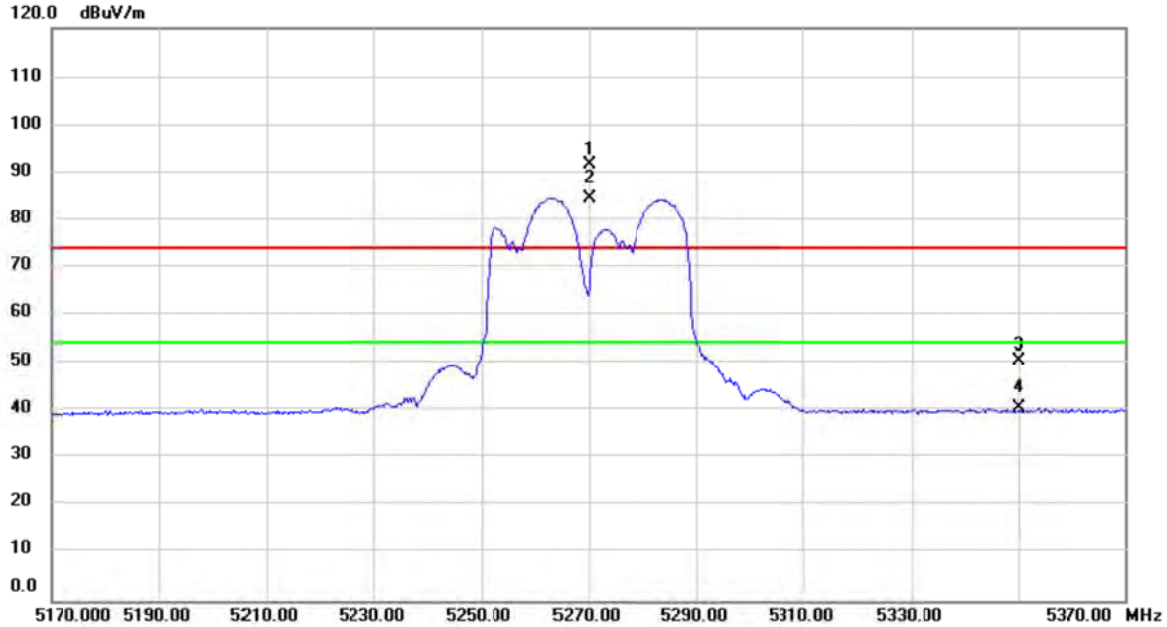
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10540.00	50.92	3.29	54.21	68.20	-13.99	peak	
2	*	10540.00	40.54	3.29	43.83	54.00	-10.17	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N40 Mode 5270MHz

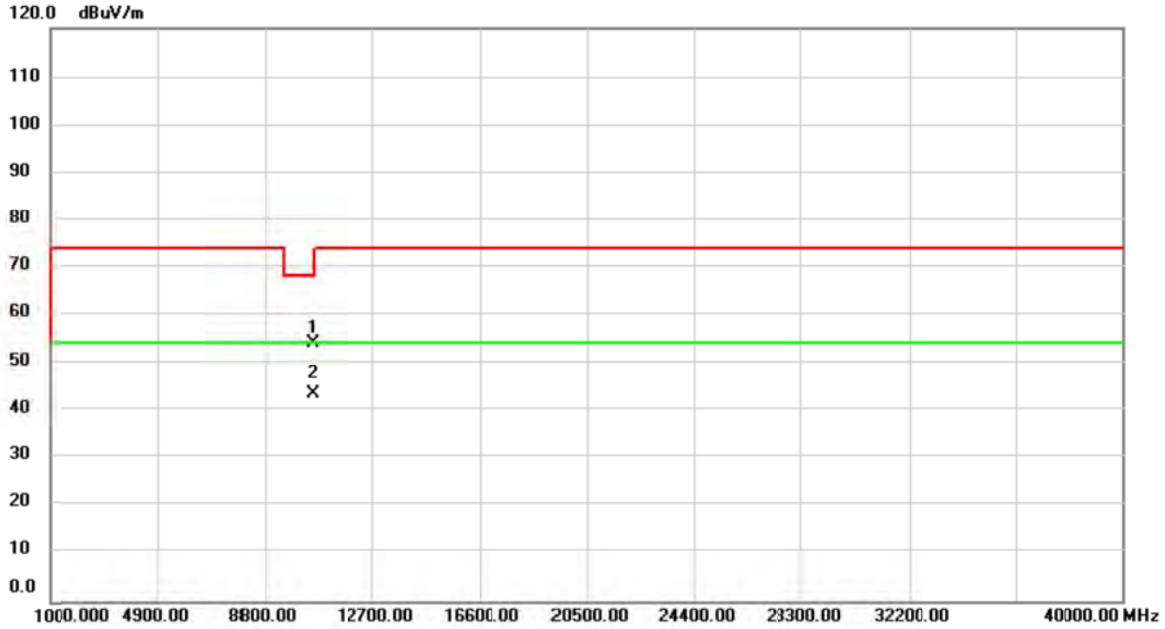
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5270.000	53.20	38.60	91.80	74.00	17.80	peak	No Limit
2	*	5270.000	45.82	38.60	84.42	54.00	30.42	AVG	No Limit
3		5350.000	11.80	38.69	50.49	74.00	-23.51	peak	
4		5350.000	1.86	38.69	40.55	54.00	-13.45	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N40 Mode 5270MHz

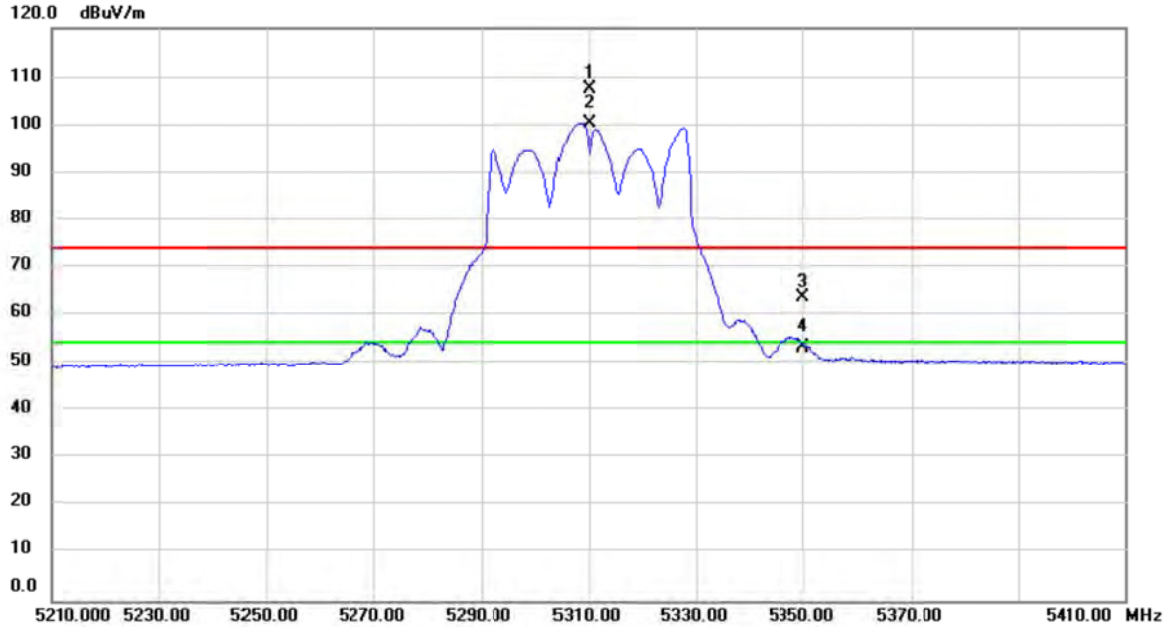
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10540.00	50.83	3.29	54.12	68.20	-14.08	peak	
2	*	10540.00	40.37	3.29	43.66	54.00	-10.34	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N40 Mode 5310MHz

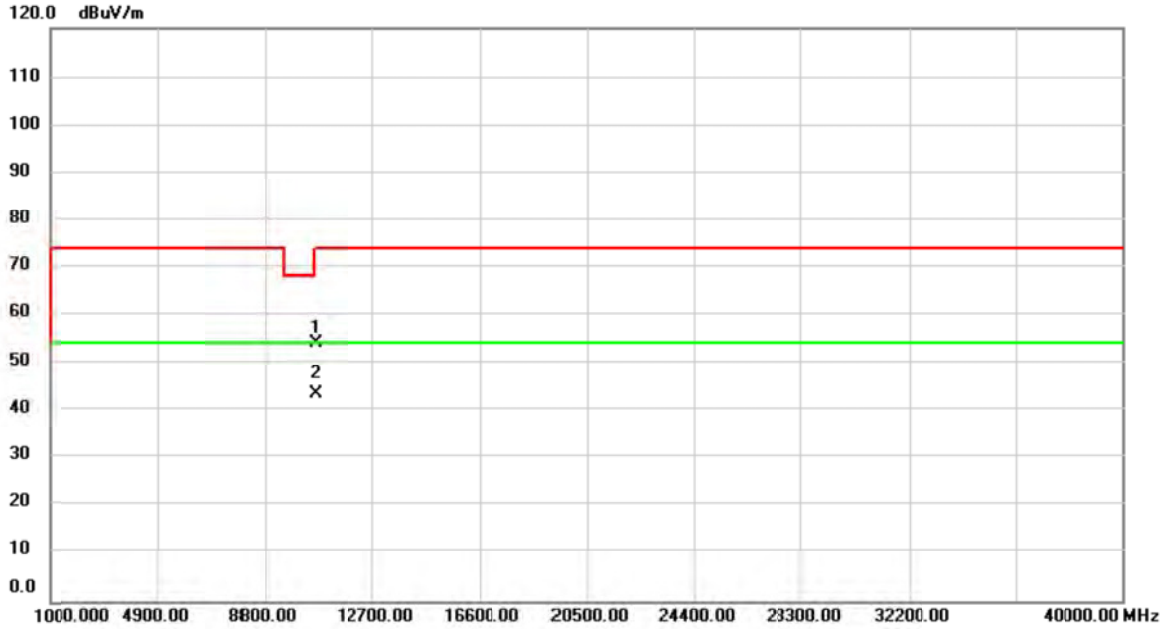
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5310.000	68.96	38.64	107.60	74.00	33.60	peak	No Limit
2	*	5310.000	61.84	38.64	100.48	54.00	46.48	AVG	No Limit
3		5350.000	25.06	38.69	63.75	74.00	-10.25	peak	
4		5350.000	14.43	38.69	53.12	54.00	-0.88	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N40 Mode 5310MHz

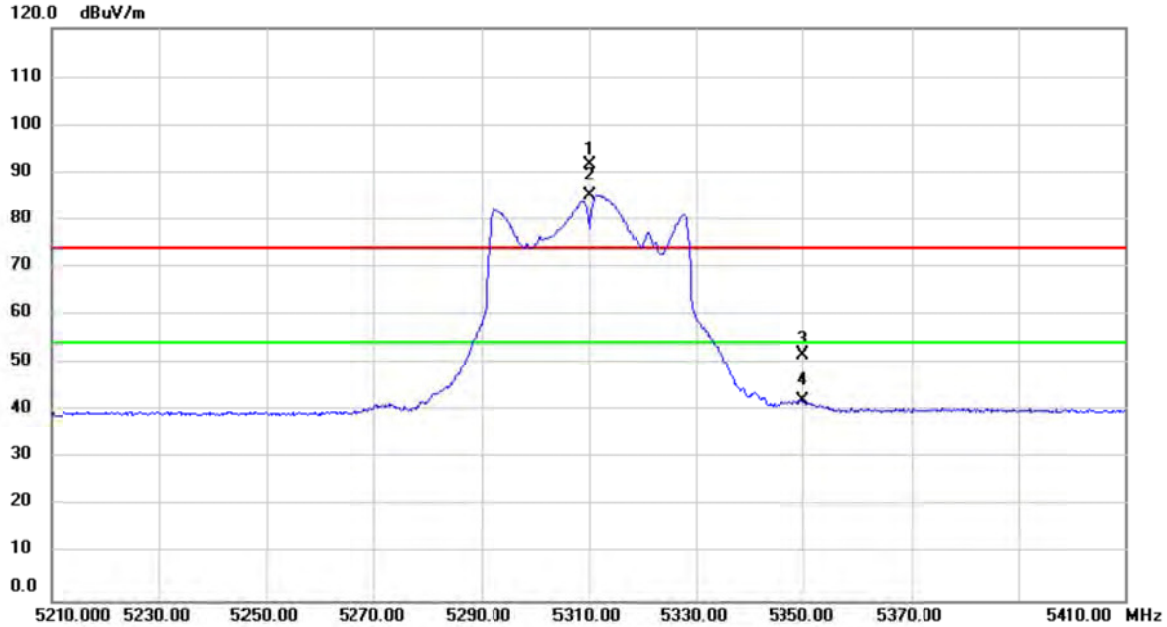
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10620.00	50.82	3.45	54.27	74.00	-19.73	peak	
2	*	10620.00	40.34	3.45	43.79	54.00	-10.21	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N40 Mode 5310MHz

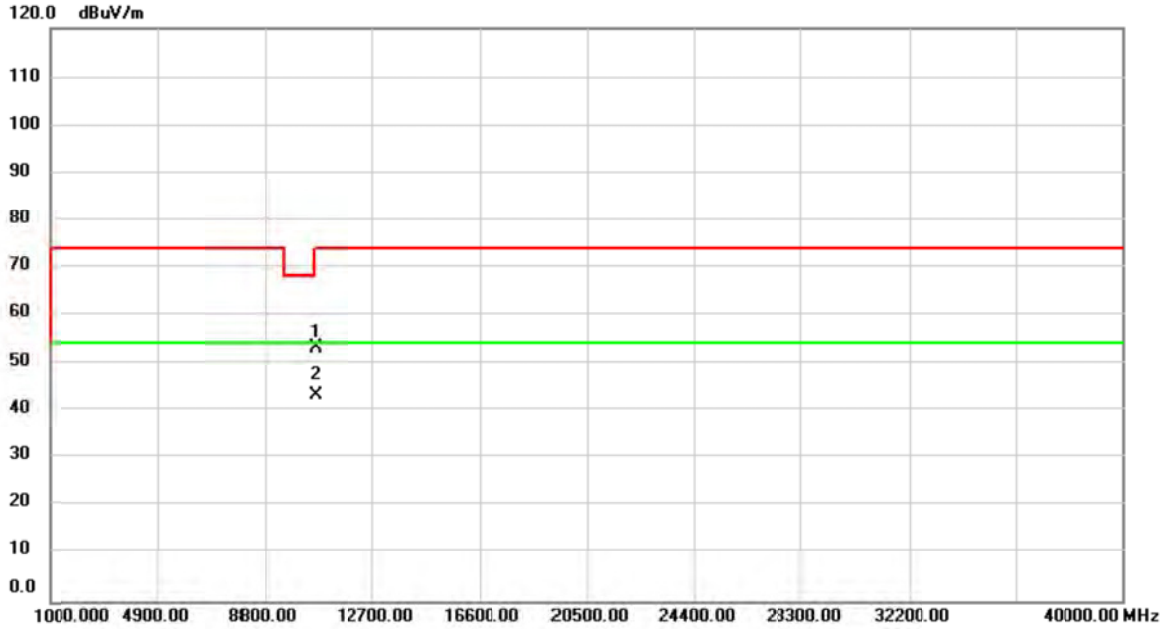
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5310.000	53.09	38.64	91.73	74.00	17.73	peak	No Limit
2	*	5310.000	46.46	38.64	85.10	54.00	31.10	AVG	No Limit
3		5350.000	13.10	38.69	51.79	74.00	-22.21	peak	
4		5350.000	3.43	38.69	42.12	54.00	-11.88	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX N40 Mode 5310MHz

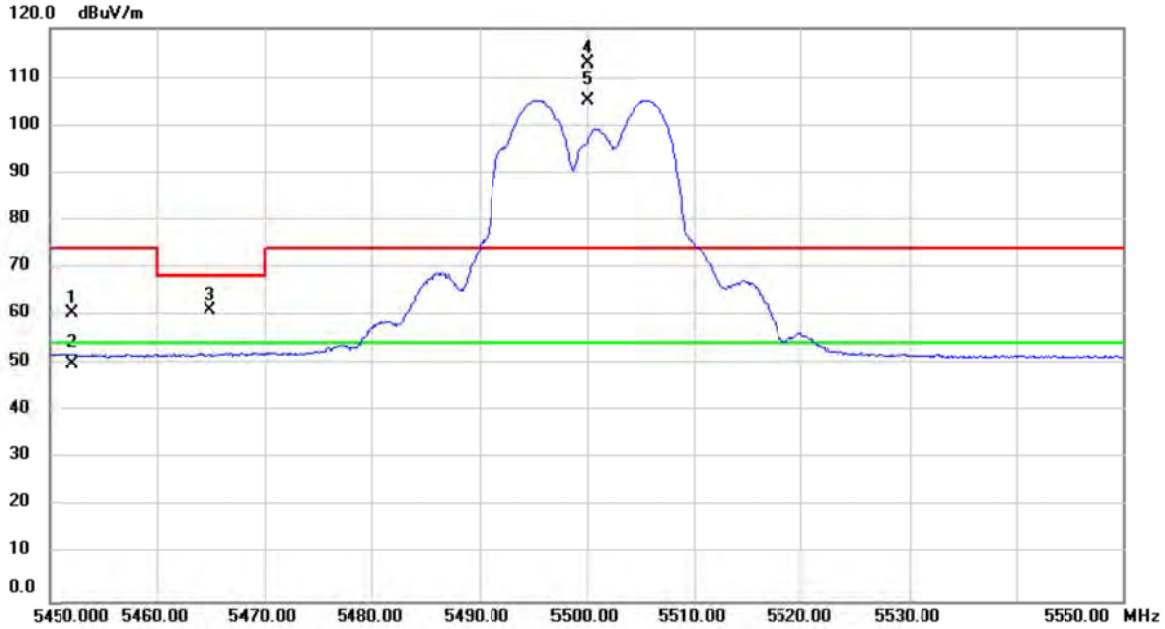
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10620.00	49.94	3.45	53.39	74.00	-20.61	peak	
2	*	10620.00	39.96	3.45	43.41	54.00	-10.59	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5500MHz

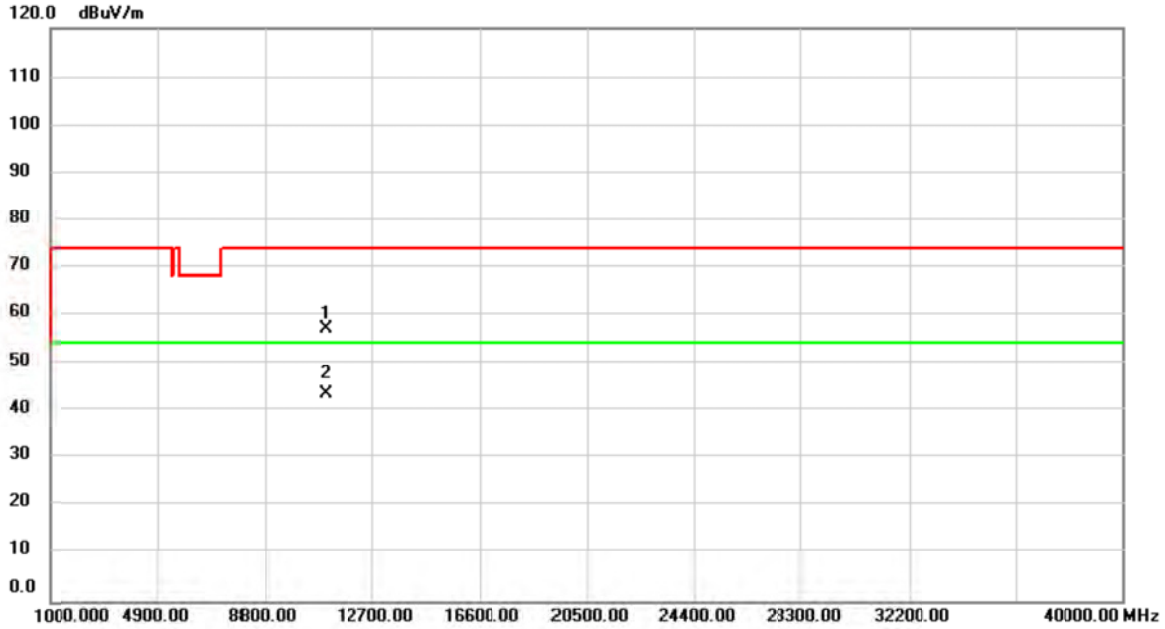
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5452.220	21.54	38.81	60.35	74.00	-13.65	peak	
2		5452.220	11.28	38.81	50.09	54.00	-3.91	AVG	
3		5464.970	22.35	38.83	61.18	68.20	-7.02	peak	
4	X	5500.000	73.65	38.87	112.52	74.00	38.52	peak	No Limit
5	*	5500.000	66.39	38.87	105.26	54.00	51.26	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5500MHz

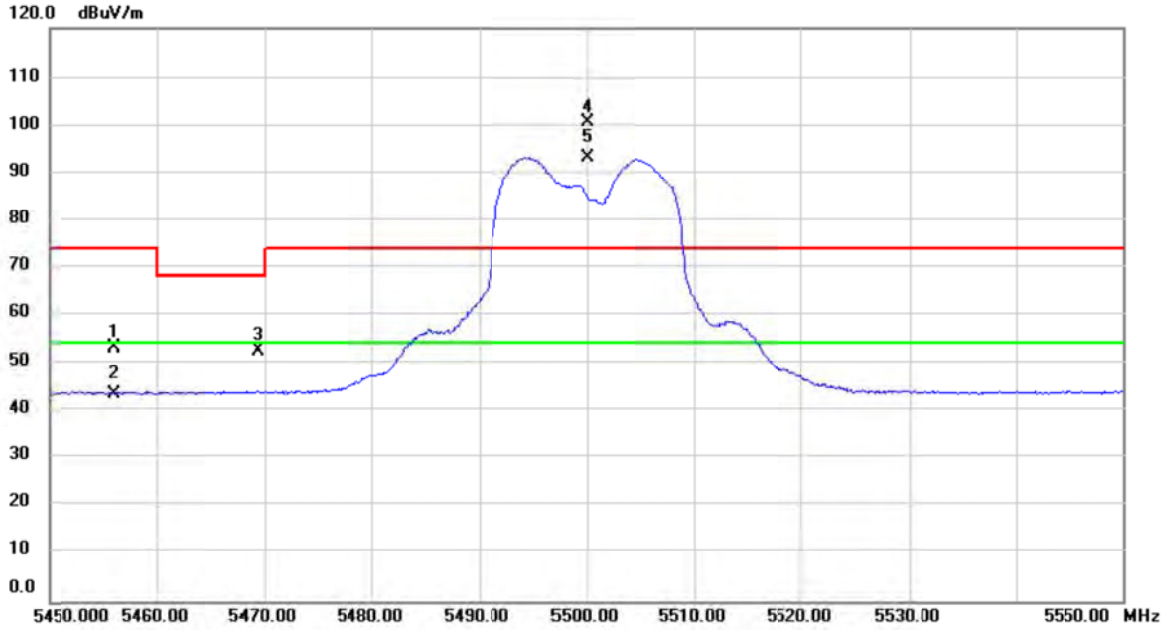
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	52.81	4.26	57.07	74.00	-16.93	peak	
2	*	11000.00	39.29	4.26	43.55	54.00	-10.45	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5500MHz

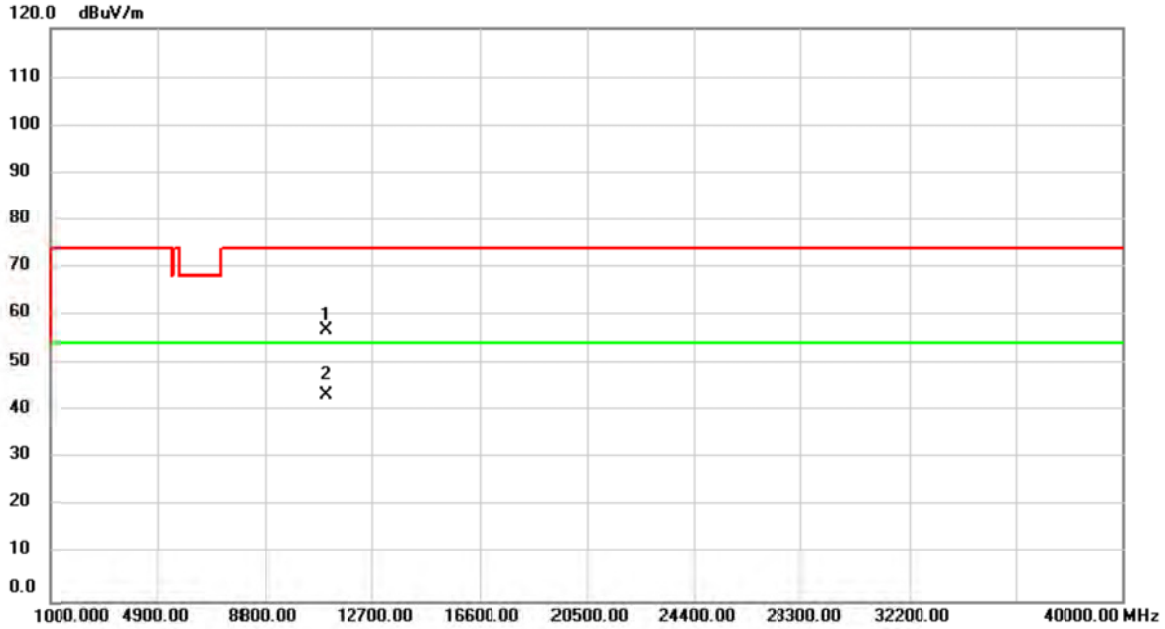
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5456.092	14.53	38.81	53.34	74.00	-20.66	peak	
2		5456.092	4.94	38.81	43.75	54.00	-10.25	AVG	
3		5469.380	13.90	38.84	52.74	68.20	-15.46	peak	
4	X	5500.000	61.69	38.87	100.56	74.00	26.56	peak	No Limit
5	*	5500.000	54.25	38.87	93.12	54.00	39.12	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5500MHz

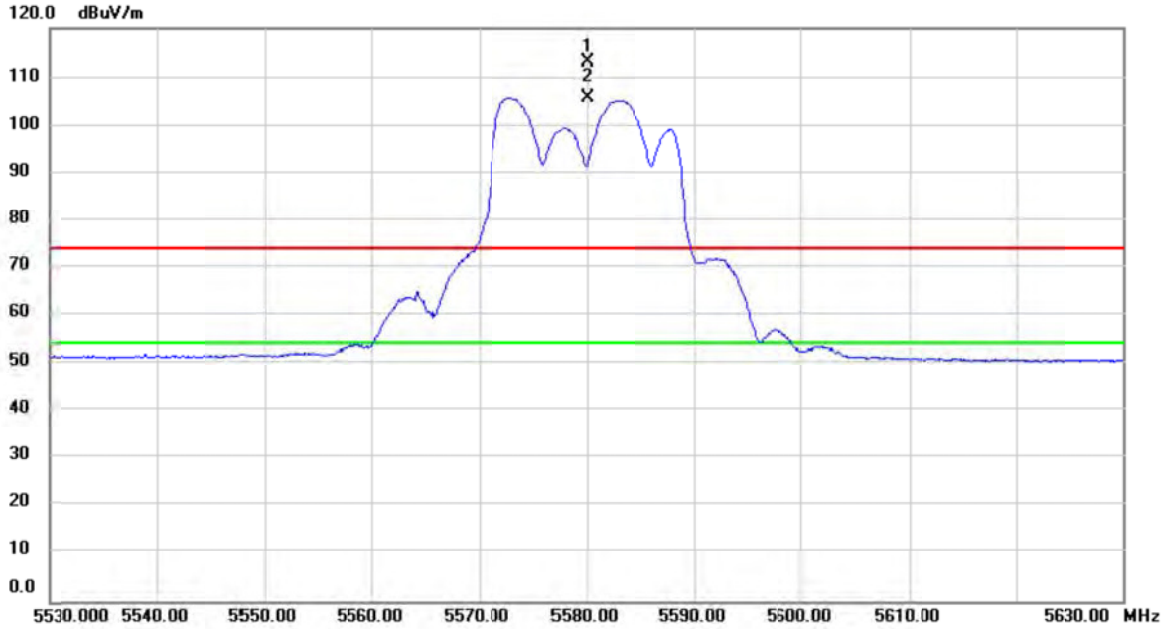
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	52.54	4.26	56.80	74.00	-17.20	peak	
2	*	11000.00	39.02	4.26	43.28	54.00	-10.72	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5580MHz

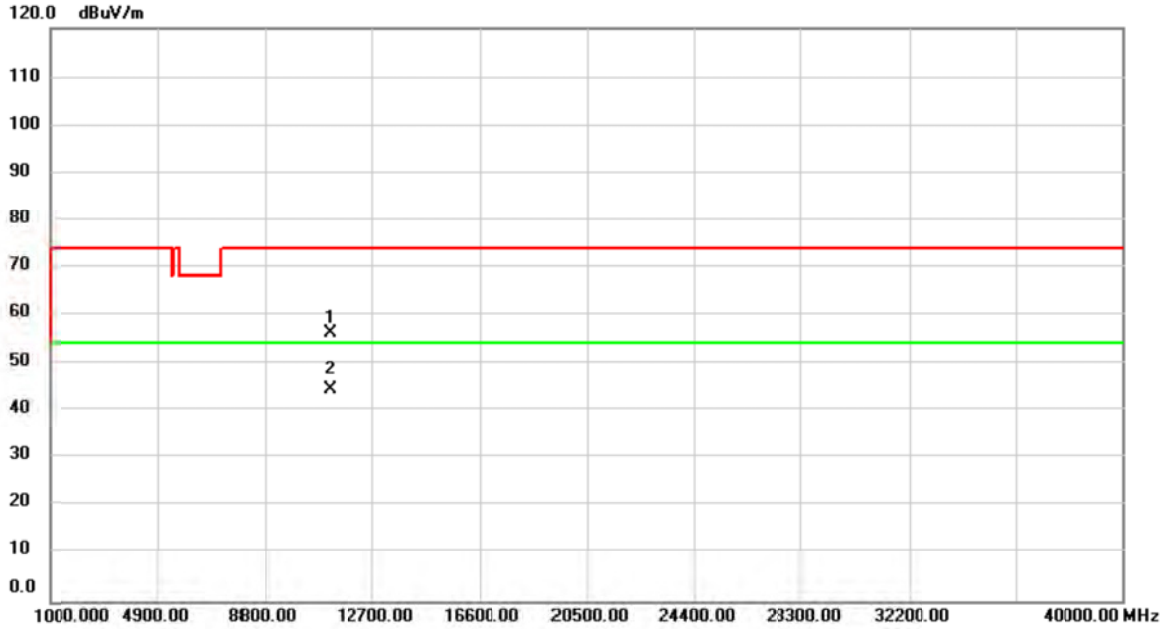
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	73.99	39.10	113.09	74.00	39.09	peak	No Limit
2	*	5580.000	66.79	39.10	105.89	54.00	51.89	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5580MHz

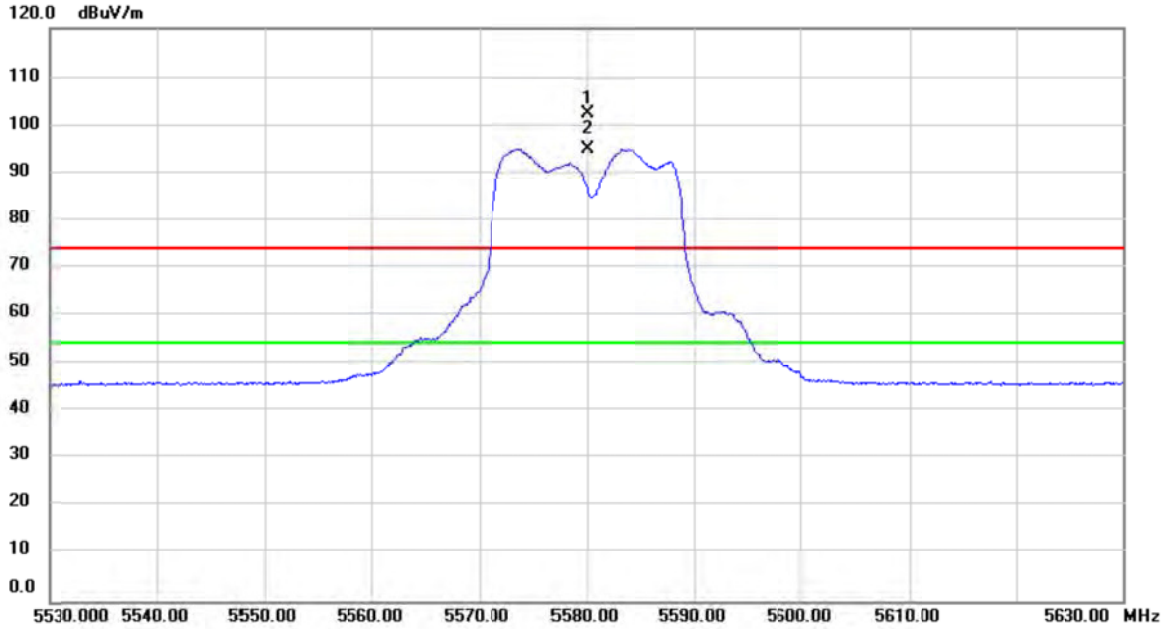
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	51.80	4.58	56.38	74.00	-17.62	peak	
2	*	11160.00	39.98	4.58	44.56	54.00	-9.44	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5580MHz

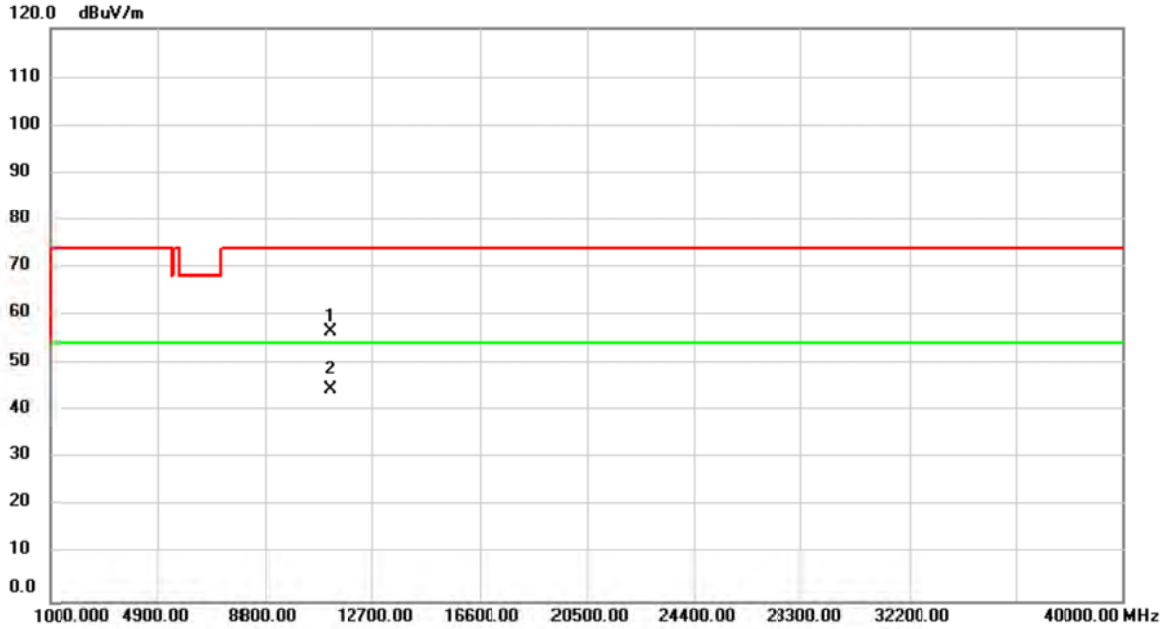
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	63.38	39.10	102.48	74.00	28.48	peak	No Limit
2	*	5580.000	55.80	39.10	94.90	54.00	40.90	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5580MHz

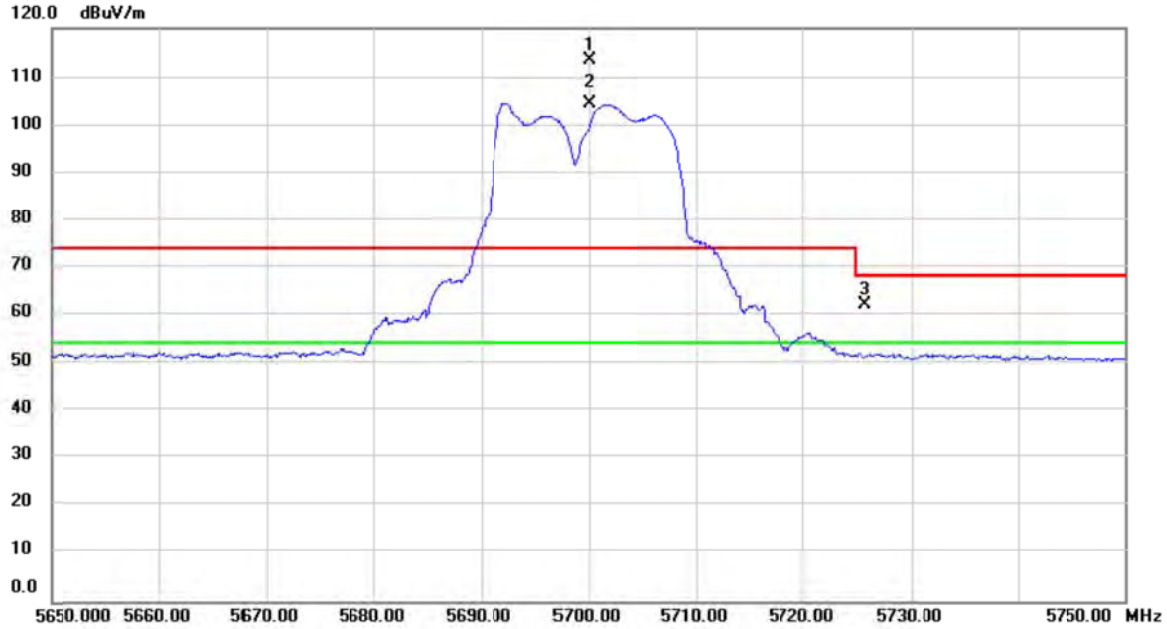
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	51.96	4.58	56.54	74.00	-17.46	peak	
2	*	11160.00	39.97	4.58	44.55	54.00	-9.45	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5700MHz

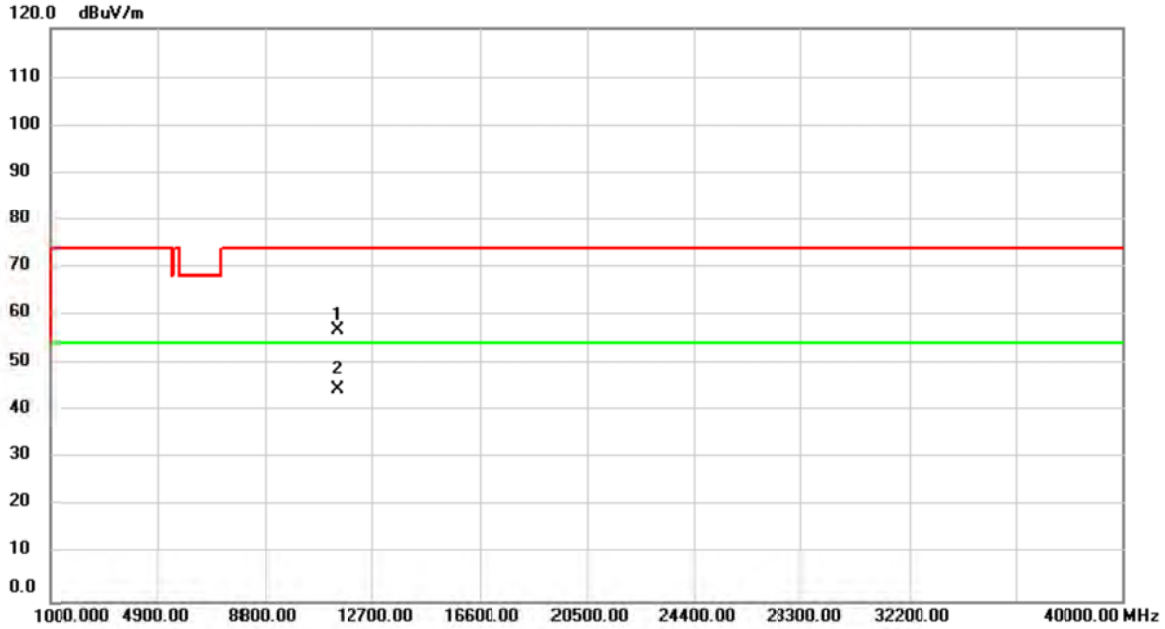
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5700.000	73.75	39.45	113.20	74.00	39.20	peak	No Limit
2	*	5700.000	65.18	39.45	104.63	54.00	50.63	AVG	No Limit
3		5725.775	22.76	39.53	62.29	68.20	-5.91	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5700MHz

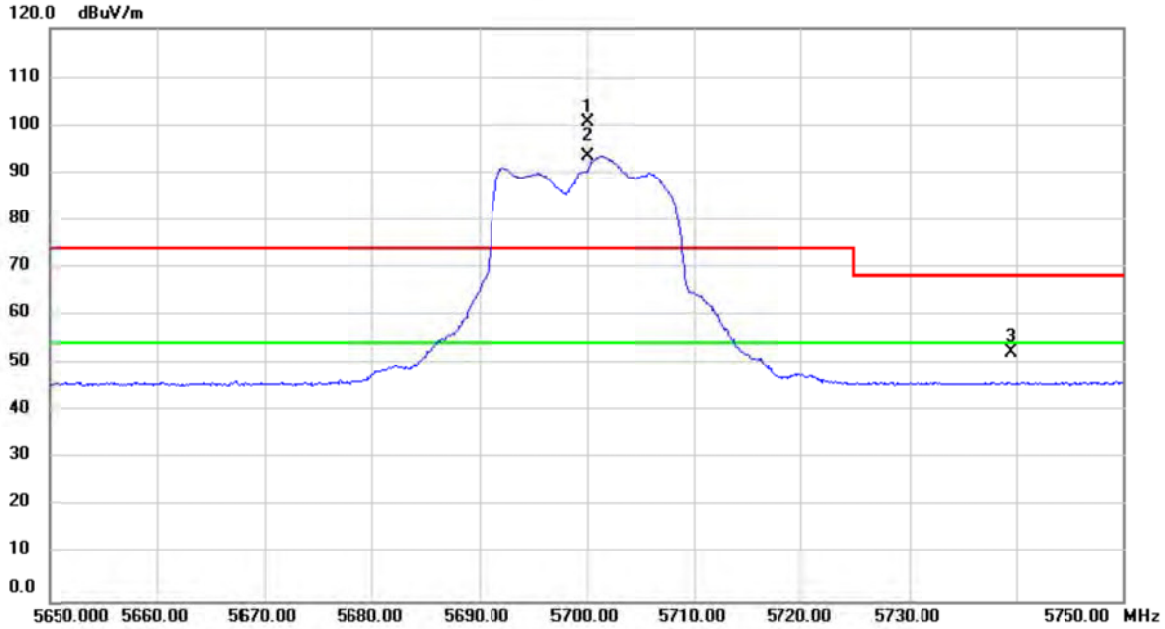
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	51.79	5.05	56.84	74.00	-17.16	peak	
2	*	11400.00	39.48	5.05	44.53	54.00	-9.47	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5700MHz

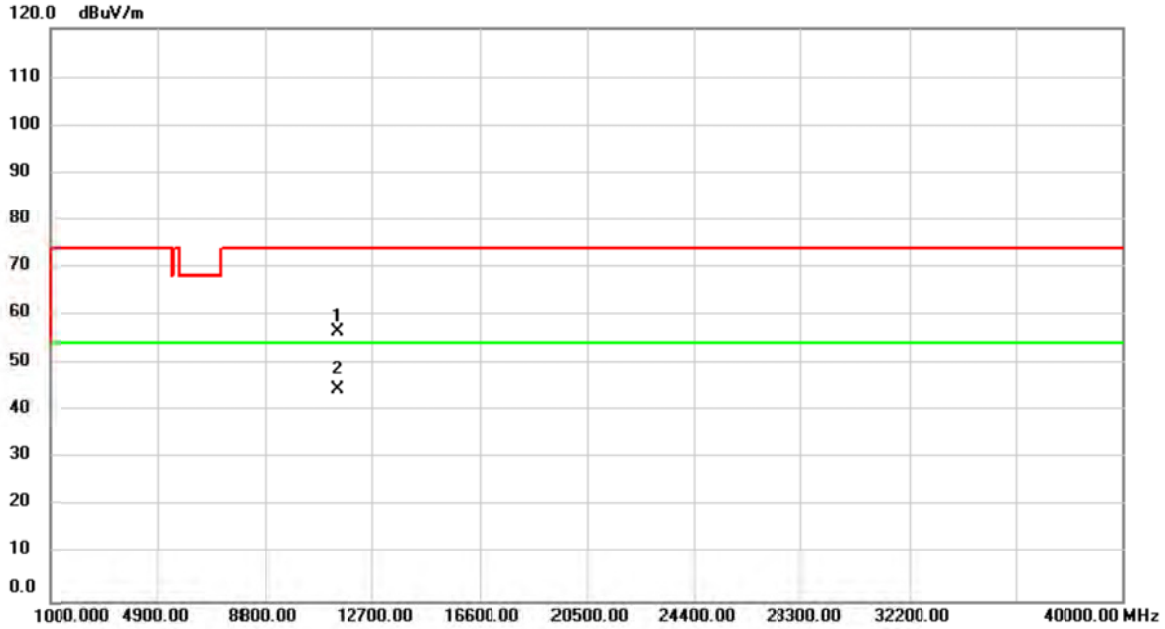
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5700.000	61.08	39.45	100.53	74.00	26.53	peak	No Limit
2	*	5700.000	53.92	39.45	93.37	54.00	39.37	AVG	No Limit
3		5739.550	12.83	39.57	52.40	68.20	-15.80	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX A Mode 5700MHz

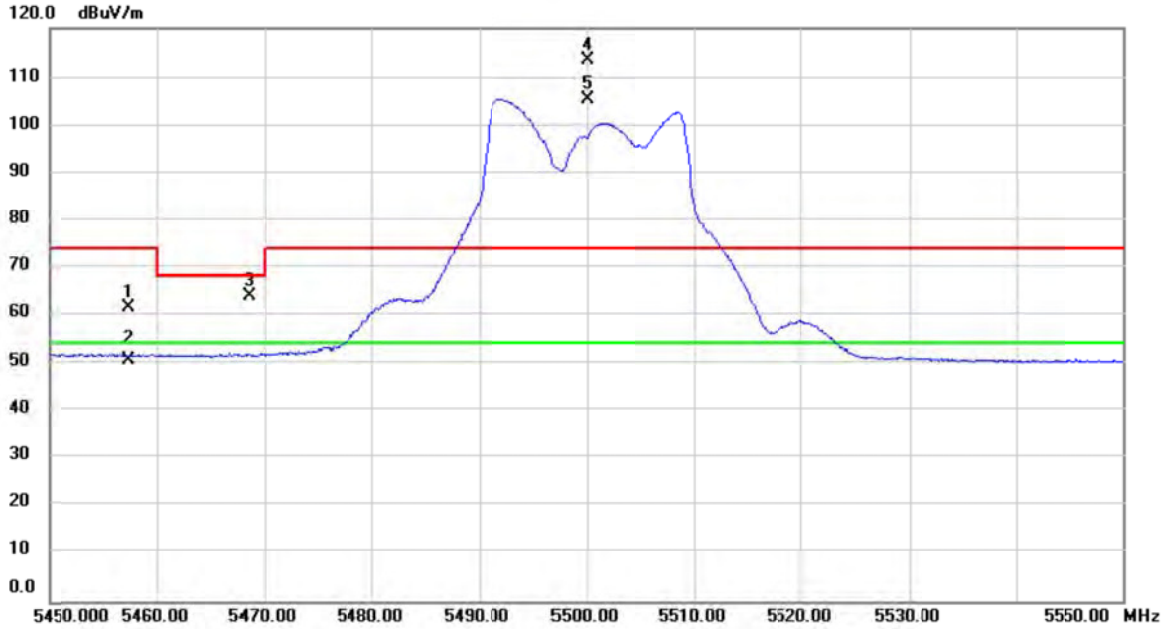
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	51.43	5.05	56.48	74.00	-17.52	peak	
2	*	11400.00	39.47	5.05	44.52	54.00	-9.48	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5500MHz

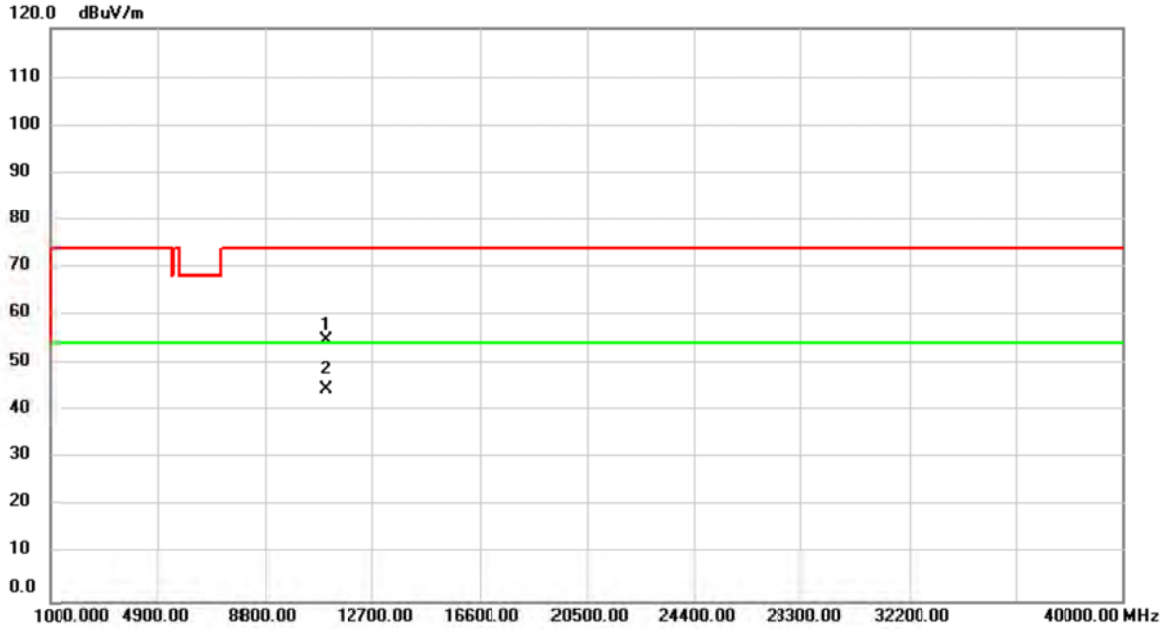
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5457.360	22.88	38.82	61.70	74.00	-12.30	peak	
2		5457.360	12.13	38.82	50.95	54.00	-3.05	AVG	
3		5468.610	25.22	38.83	64.05	68.20	-4.15	peak	
4	*	5500.000	74.26	38.87	113.13	74.00	39.13	peak	No Limit
5	X	5500.000	66.58	38.87	105.45	74.00	31.45	peak	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5500MHz

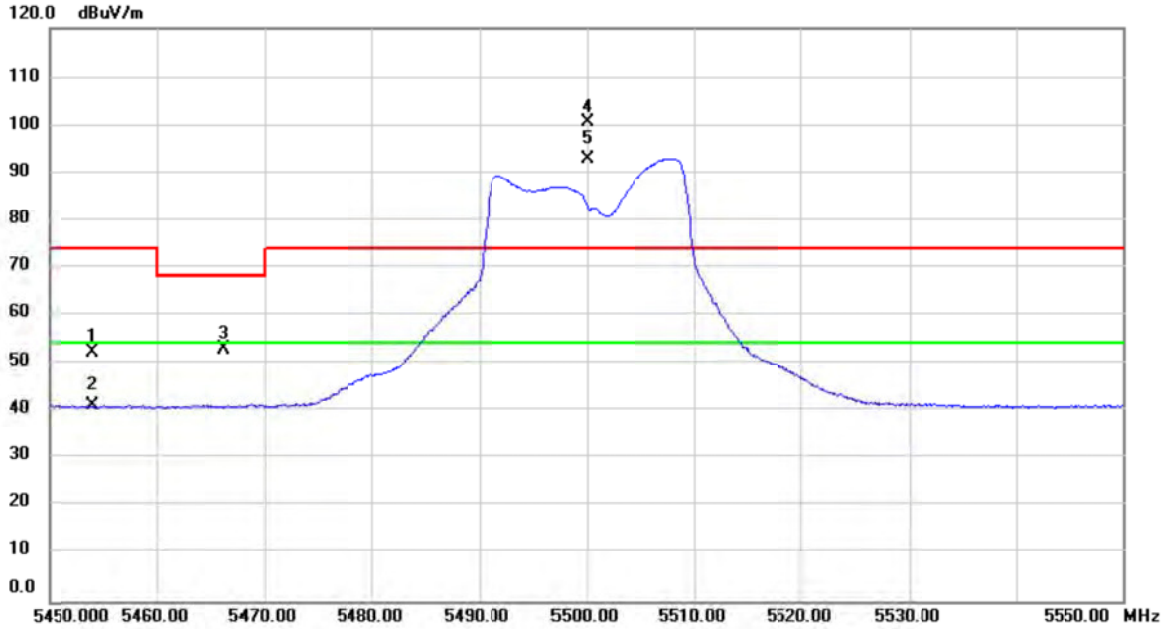
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	50.47	4.26	54.73	74.00	-19.27	peak	
2	*	11000.00	40.23	4.26	44.49	54.00	-9.51	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5500MHz

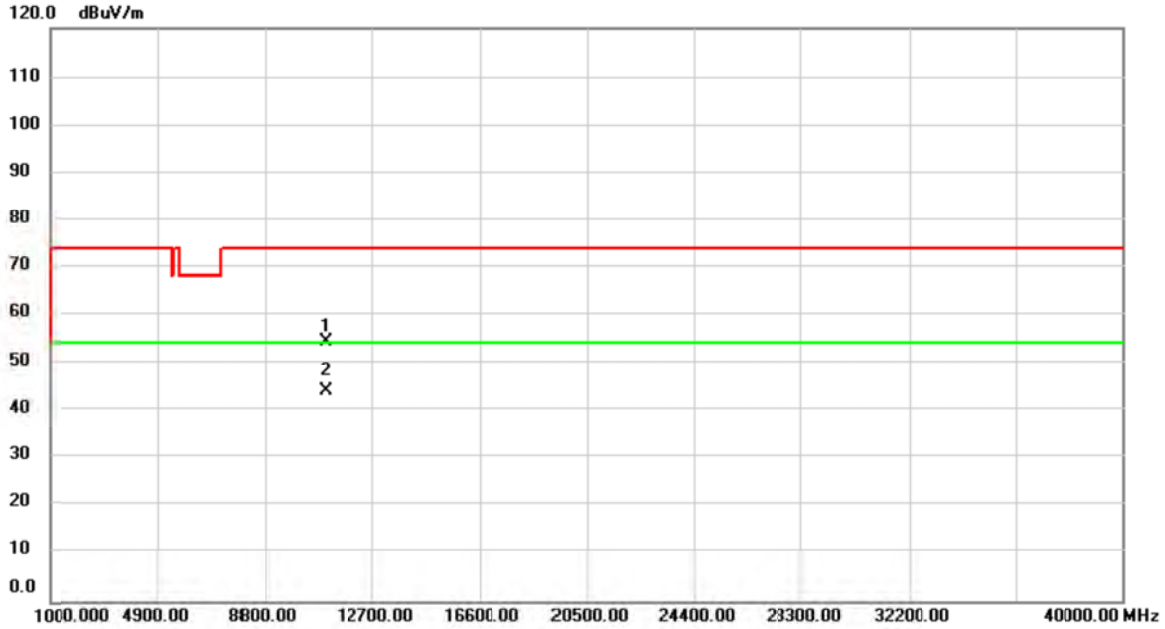
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5454.100	13.56	38.81	52.37	74.00	-21.63	peak	
2		5454.100	2.35	38.81	41.16	54.00	-12.84	AVG	
3		5466.340	14.01	38.83	52.84	68.20	-15.36	peak	
4	X	5500.000	61.69	38.87	100.56	74.00	26.56	peak	No Limit
5	*	5500.000	54.13	38.87	93.00	54.00	39.00	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5500MHz

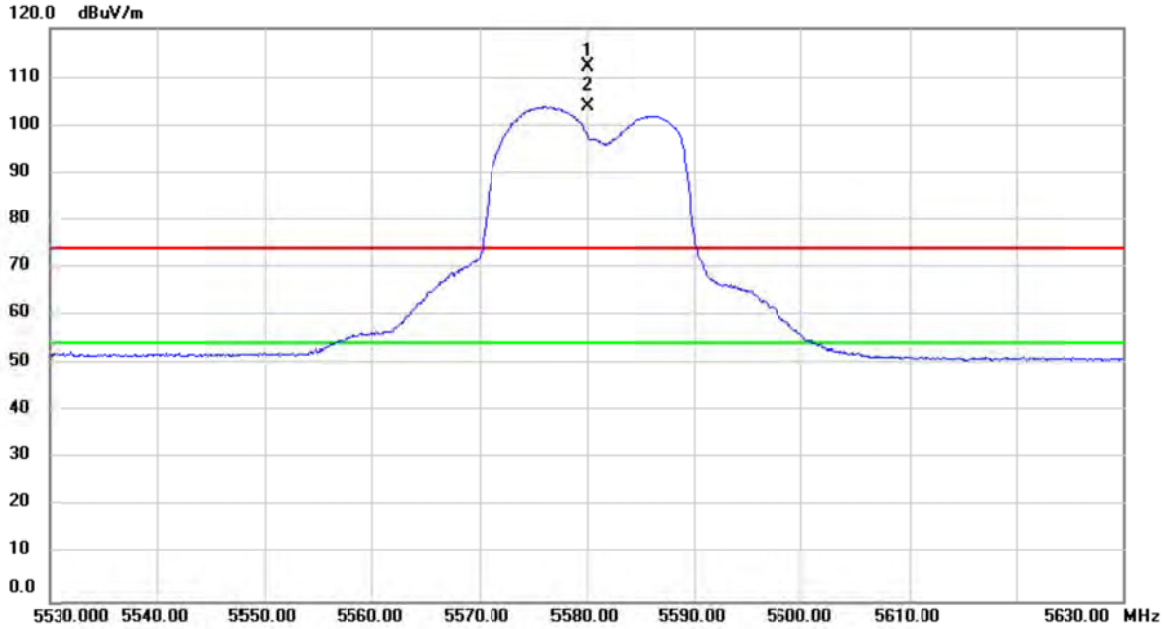
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	50.30	4.26	54.56	74.00	-19.44	peak	
2	*	11000.00	40.09	4.26	44.35	54.00	-9.65	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5580MHz

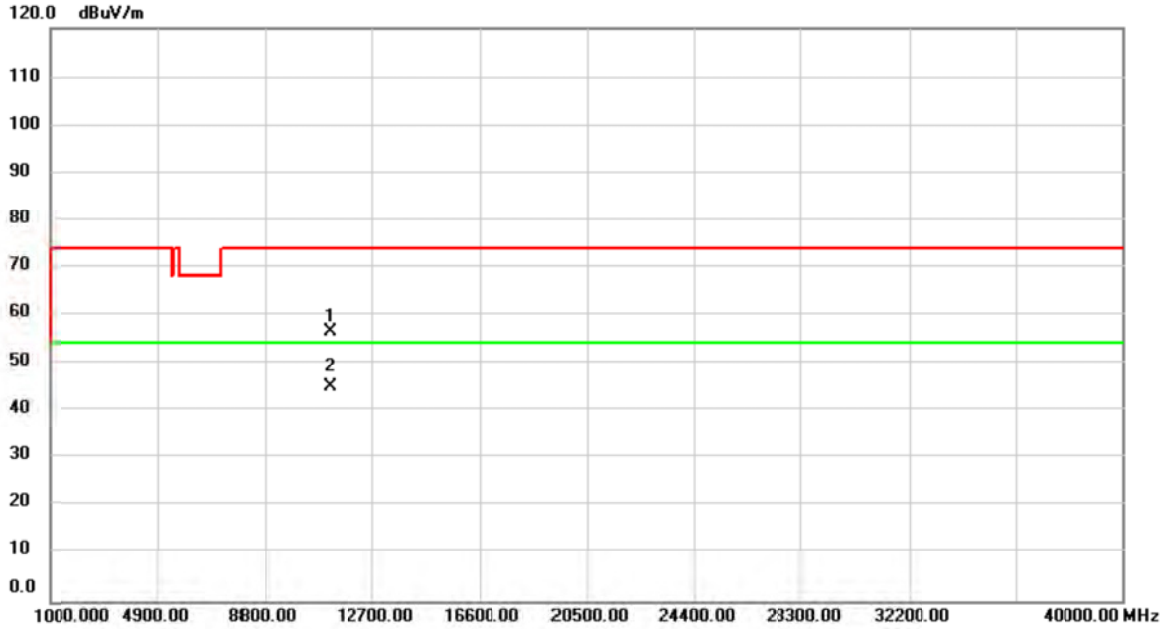
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	72.89	39.10	111.99	74.00	37.99	peak	No Limit
2	*	5580.000	64.81	39.10	103.91	54.00	49.91	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5580MHz

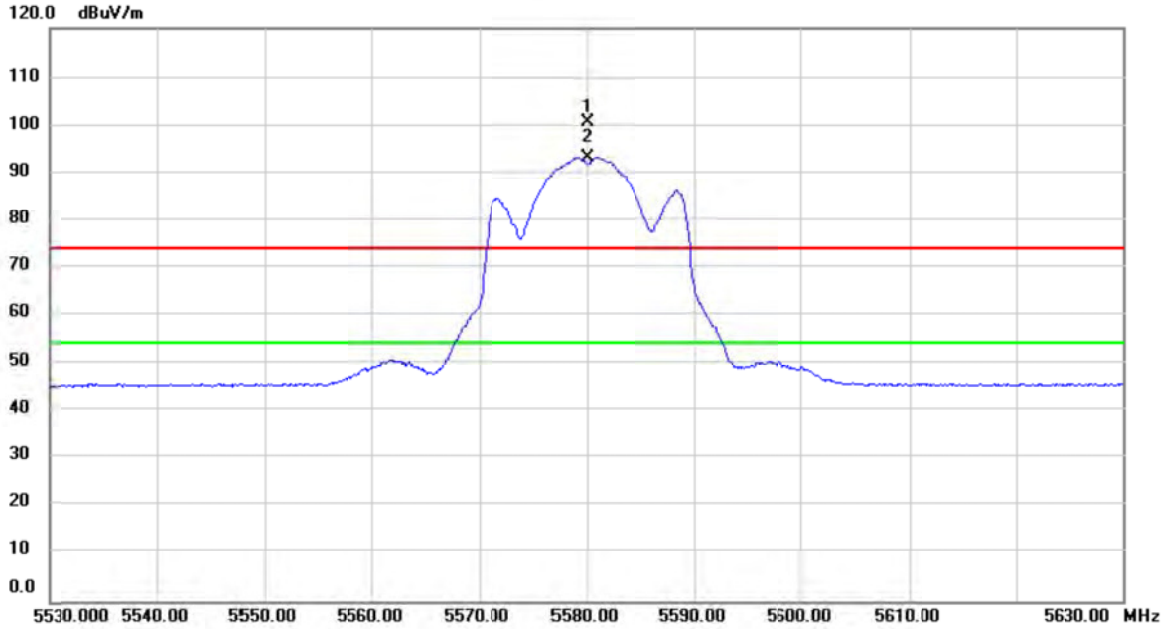
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	52.03	4.58	56.61	74.00	-17.39	peak	
2	*	11160.00	40.69	4.58	45.27	54.00	-8.73	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5580MHz

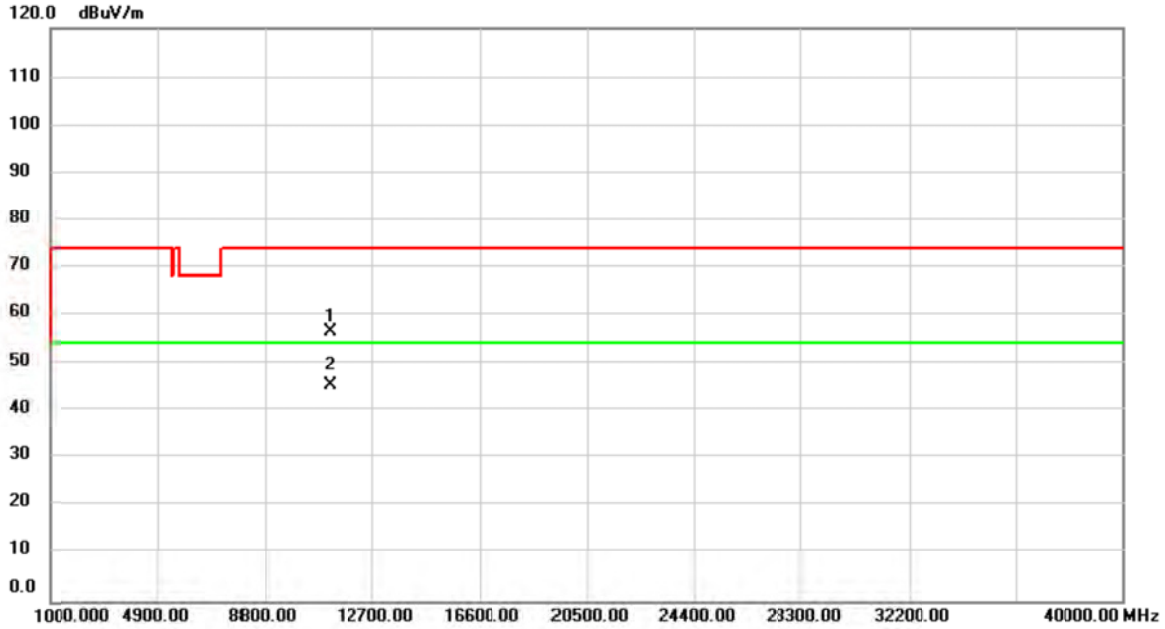
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	61.56	39.10	100.66	74.00	26.66	peak	No Limit
2	*	5580.000	54.13	39.10	93.23	54.00	39.23	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5580MHz

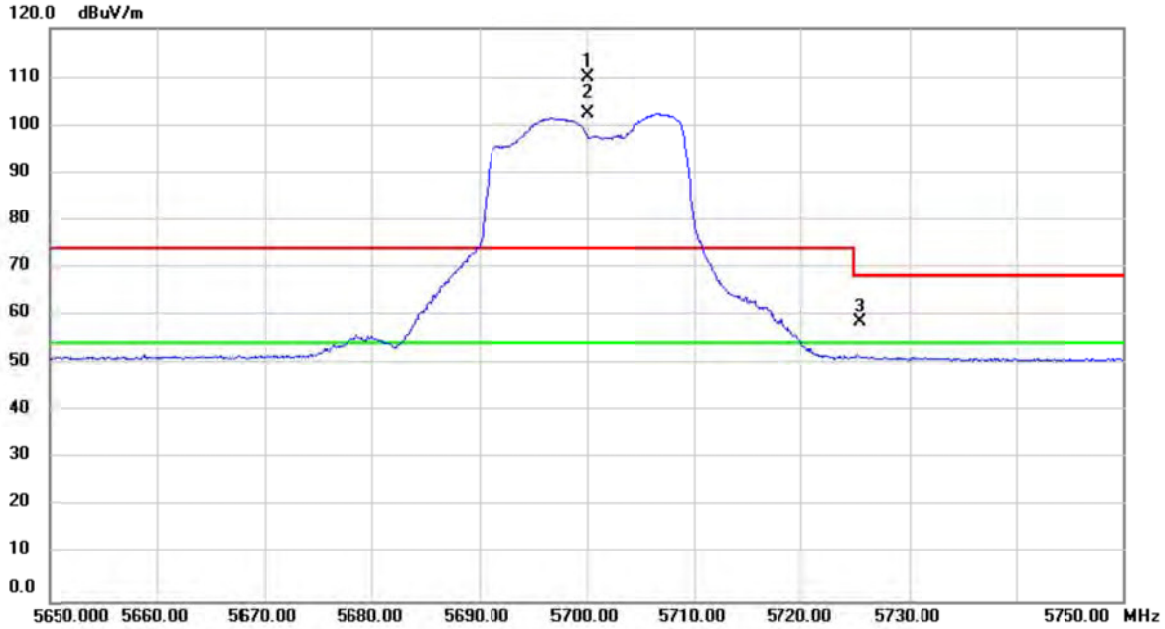
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	51.88	4.58	56.46	74.00	-17.54	peak	
2	*	11160.00	40.76	4.58	45.34	54.00	-8.66	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5700MHz

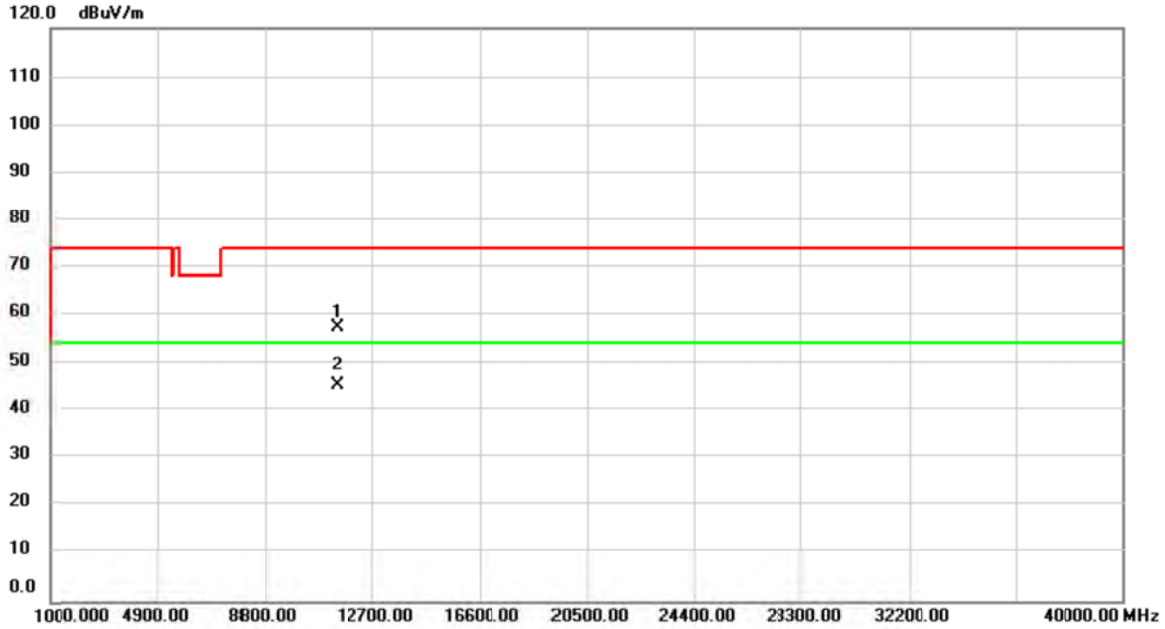
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5700.000	70.41	39.45	109.86	74.00	35.86	peak	No Limit
2	*	5700.000	63.01	39.45	102.46	54.00	48.46	AVG	No Limit
3		5725.525	19.23	39.53	58.76	68.20	-9.44	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5700MHz

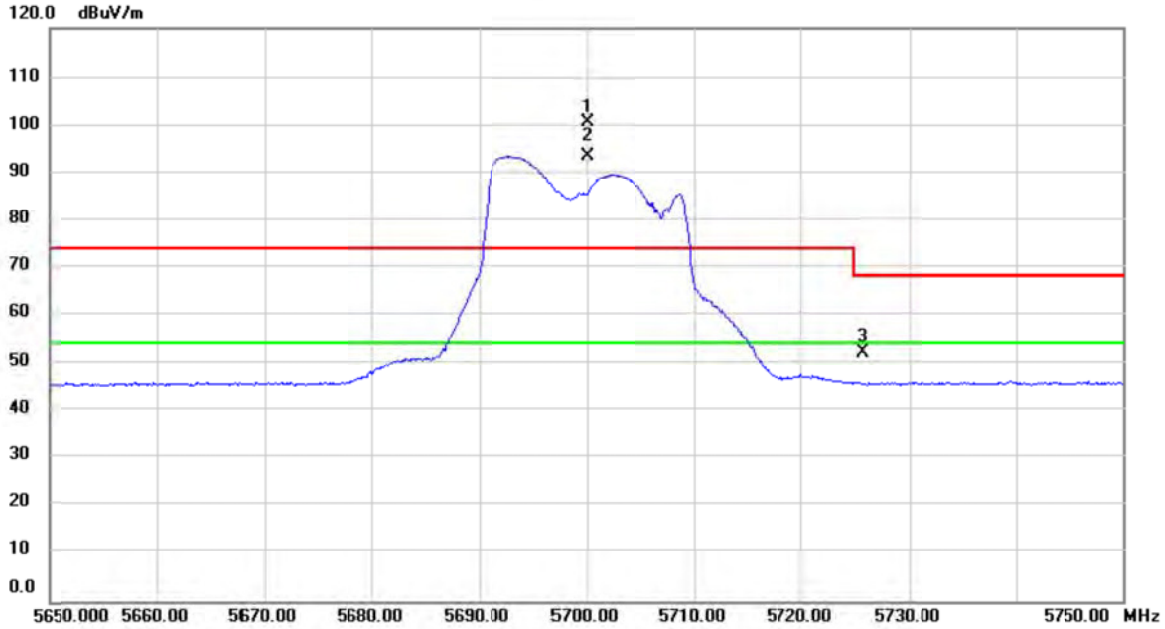
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	52.49	5.05	57.54	74.00	-16.46	peak	
2	*	11400.00	40.44	5.05	45.49	54.00	-8.51	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5700MHz

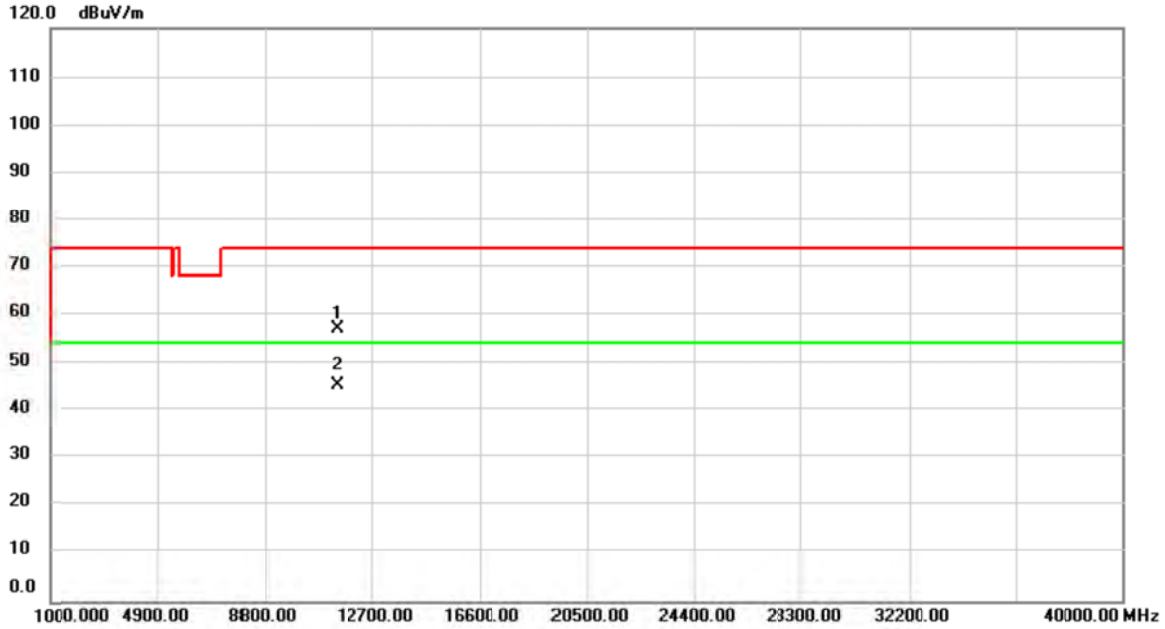
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5700.000	61.33	39.45	100.78	74.00	26.78	peak	No Limit
2	*	5700.000	54.08	39.45	93.53	54.00	39.53	AVG	No Limit
3		5725.825	12.91	39.53	52.44	68.20	-15.76	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N20 Mode 5700MHz

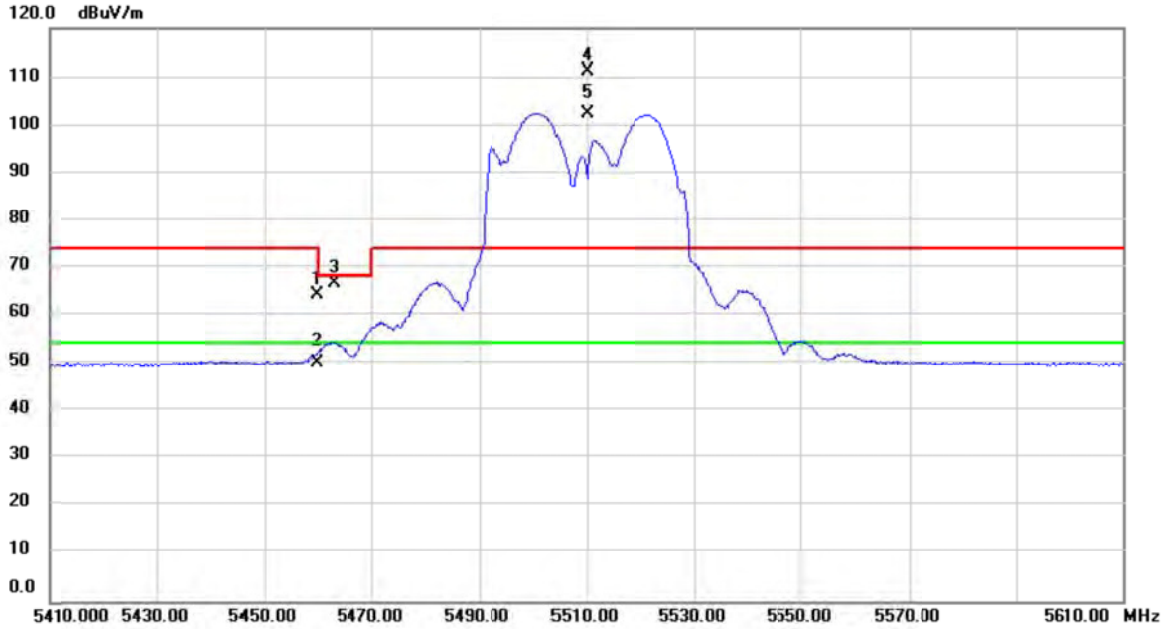
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	52.23	5.05	57.28	74.00	-16.72	peak	
2	*	11400.00	40.39	5.05	45.44	54.00	-8.56	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5510MHz

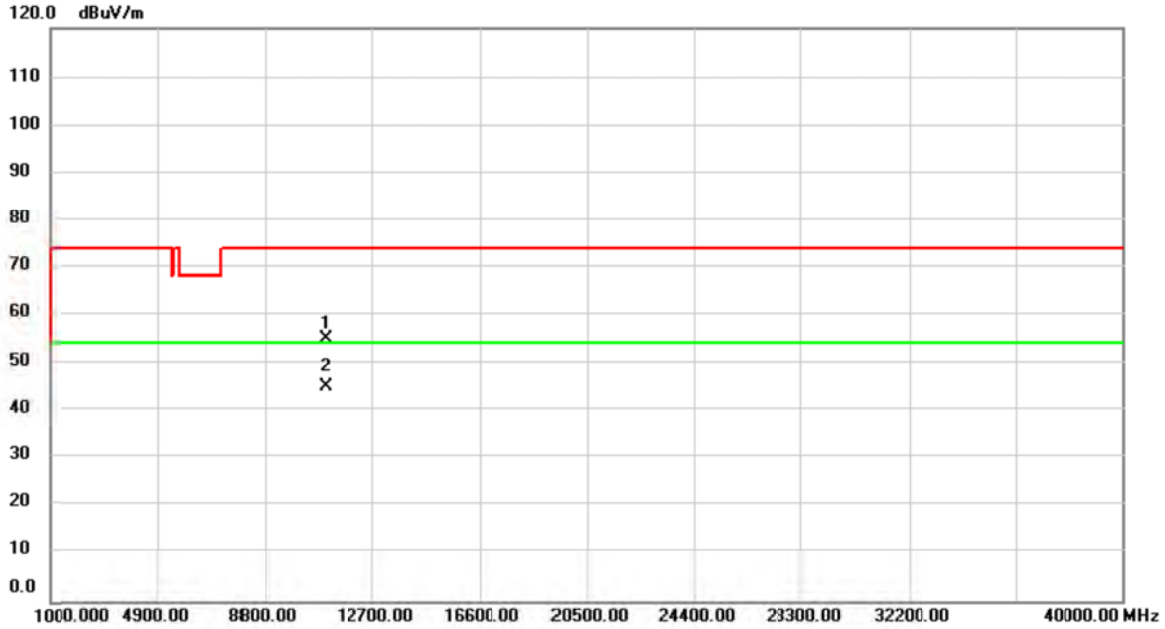
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5459.800	25.54	38.82	64.36	74.00	-9.64	peak	
2		5459.800	11.56	38.82	50.38	54.00	-3.62	AVG	
3		5463.040	27.82	38.83	66.65	68.20	-1.55	peak	
4	X	5510.000	72.30	38.89	111.19	74.00	37.19	peak	No Limit
5	*	5510.000	63.66	38.89	102.55	54.00	48.55	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5510MHz

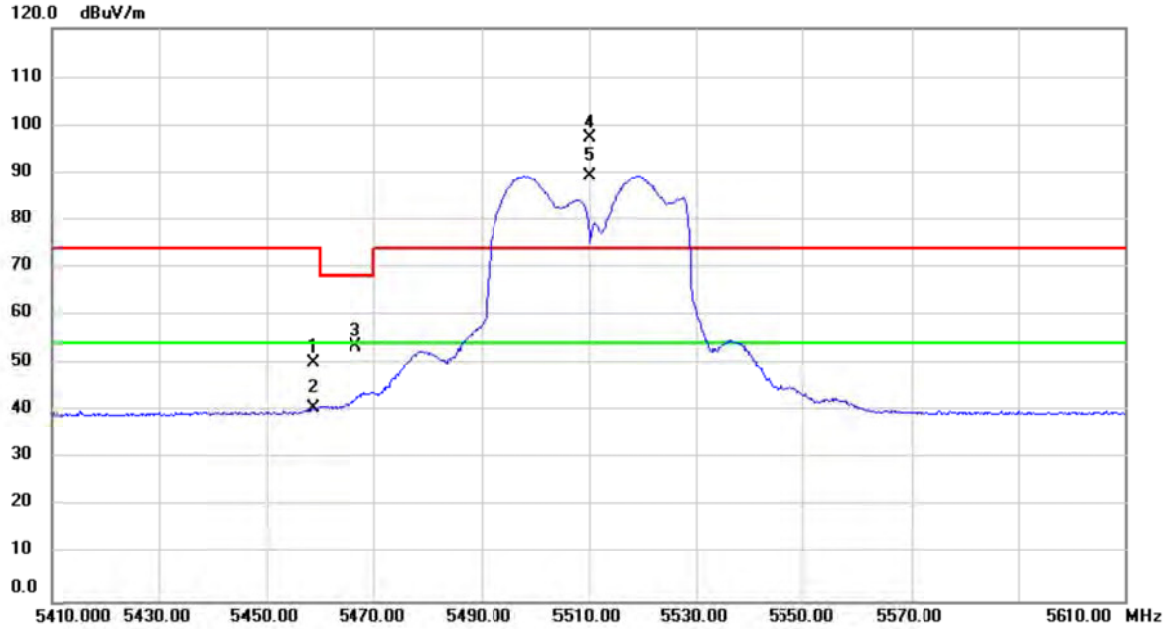
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11020.00	50.69	4.30	54.99	74.00	-19.01	peak	
2	*	11020.00	40.78	4.30	45.08	54.00	-8.92	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5510MHz

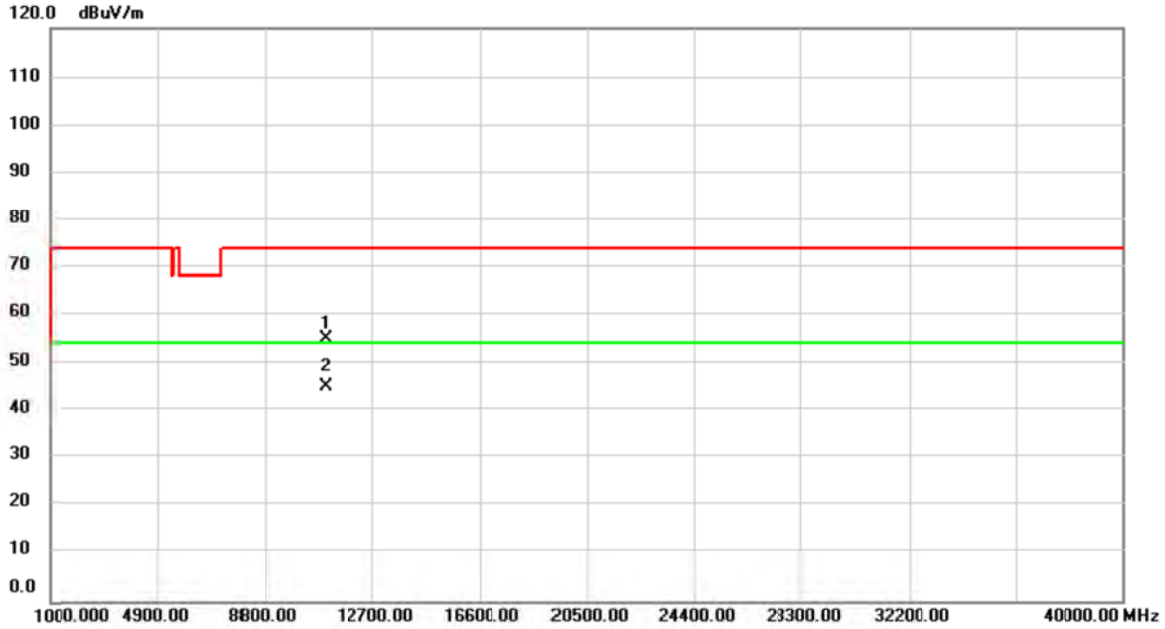
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5458.600	11.55	38.82	50.37	74.00	-23.63	peak	
2		5458.600	1.77	38.82	40.59	54.00	-13.41	AVG	
3		5466.580	14.69	38.83	53.52	68.20	-14.68	peak	
4	X	5510.000	58.56	38.89	97.45	74.00	23.45	peak	No Limit
5	*	5510.000	50.41	38.89	89.30	54.00	35.30	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5510MHz

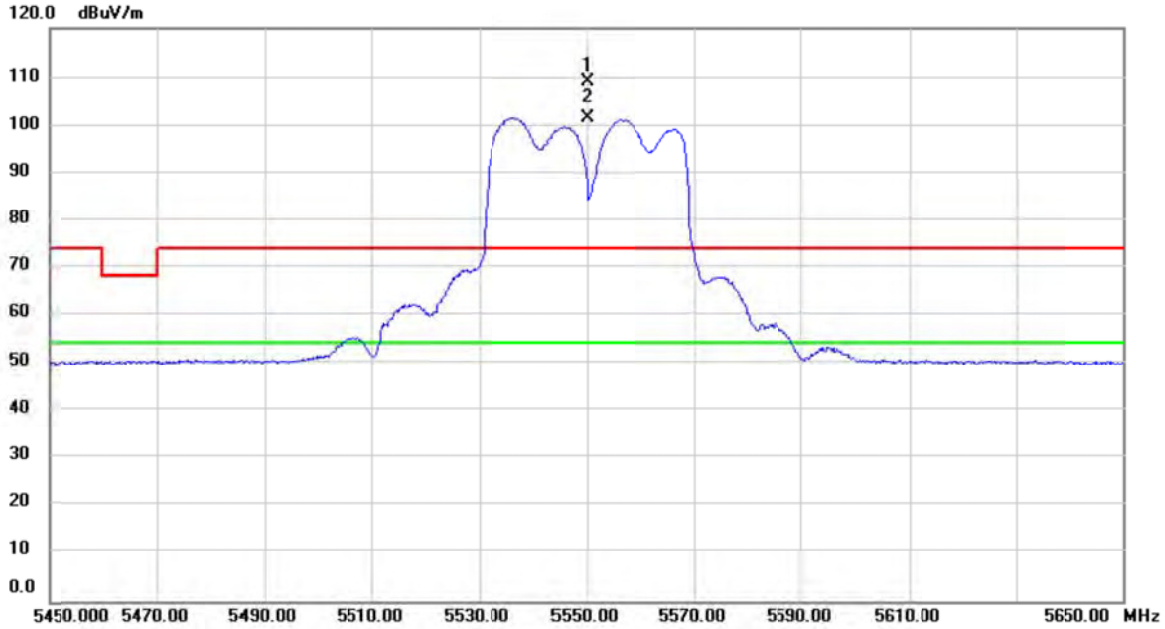
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11020.00	50.78	4.30	55.08	74.00	-18.92	peak	
2	*	11020.00	40.75	4.30	45.05	54.00	-8.95	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5550MHz

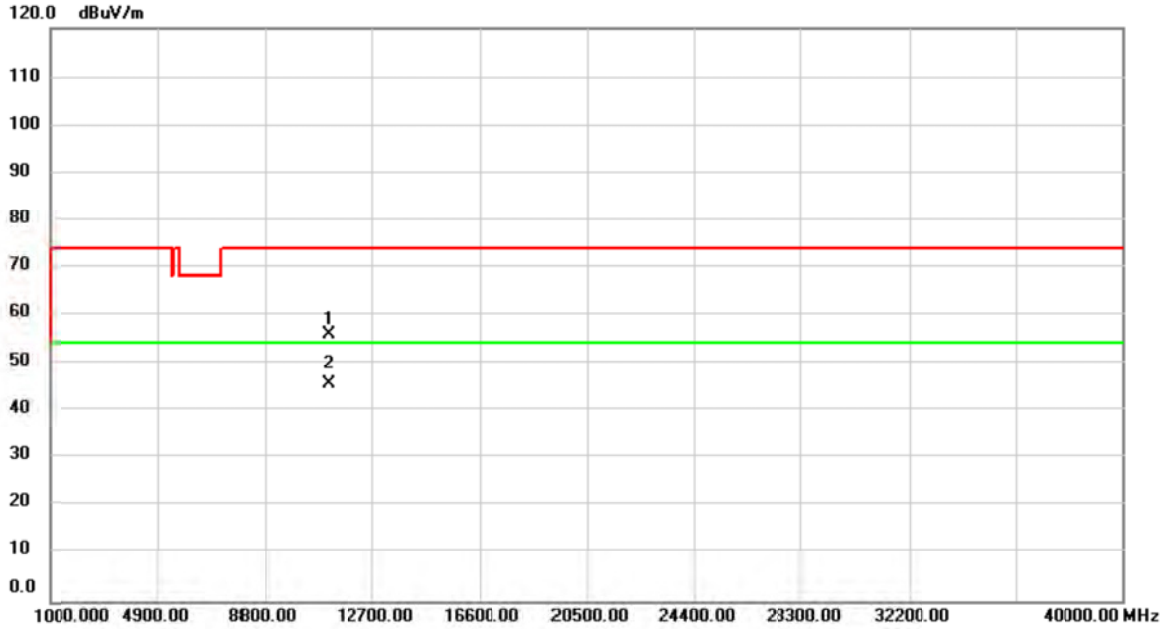
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5550.000	70.00	39.02	109.02	74.00	35.02	peak	No Limit
2	*	5550.000	62.66	39.02	101.68	54.00	47.68	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5550MHz

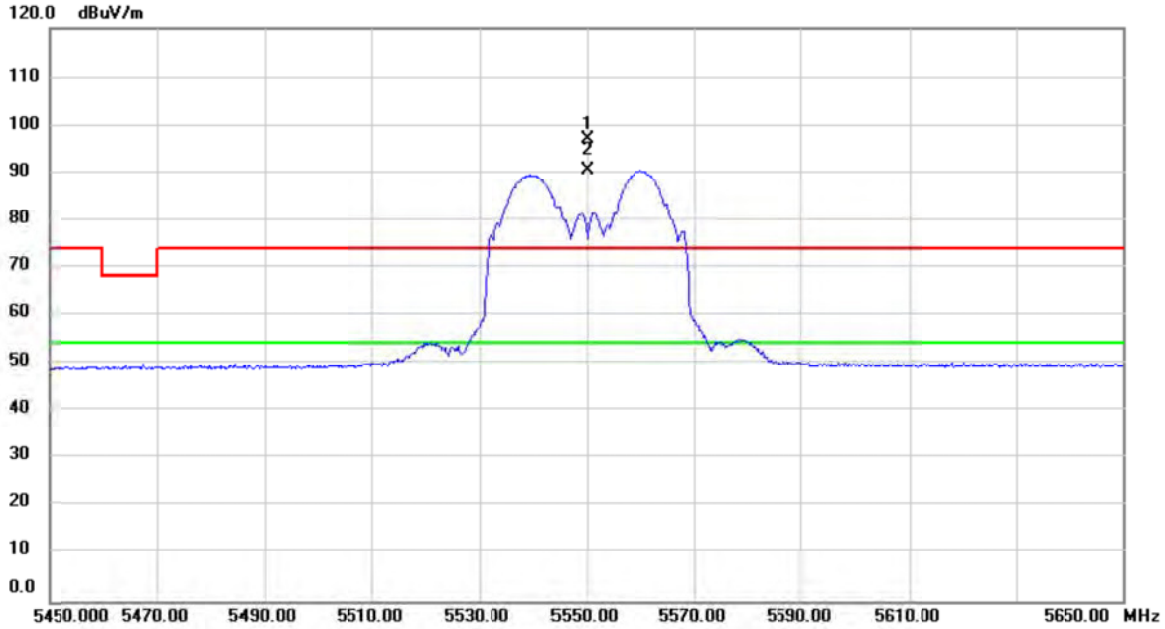
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11100.00	51.38	4.46	55.84	74.00	-18.16	peak	
2	*	11100.00	41.39	4.46	45.85	54.00	-8.15	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5550MHz

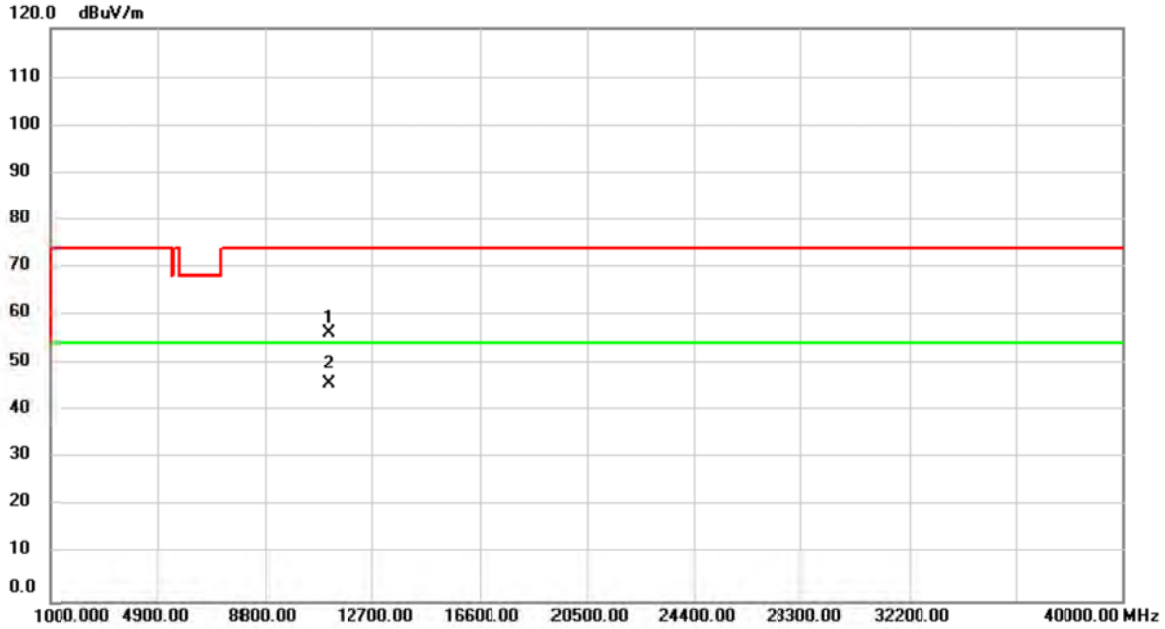
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5550.000	58.18	39.02	97.20	74.00	23.20	peak	No Limit
2	*	5550.000	51.30	39.02	90.32	54.00	36.32	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5550MHz

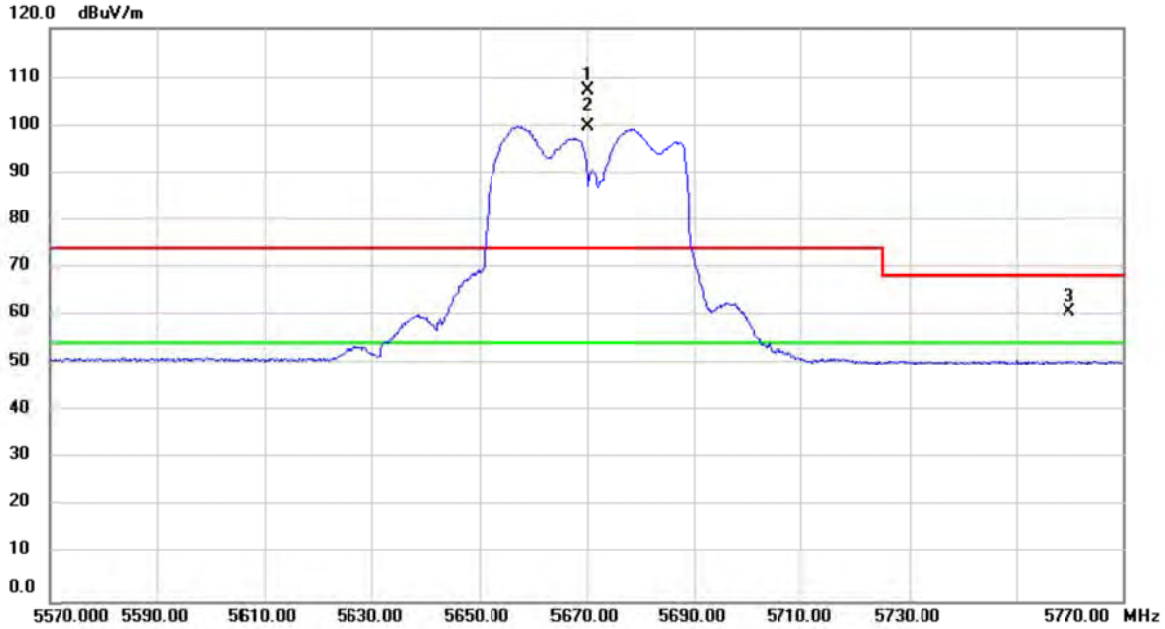
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11100.00	51.68	4.46	56.14	74.00	-17.86	peak	
2	*	11100.00	41.43	4.46	45.89	54.00	-8.11	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5670MHz

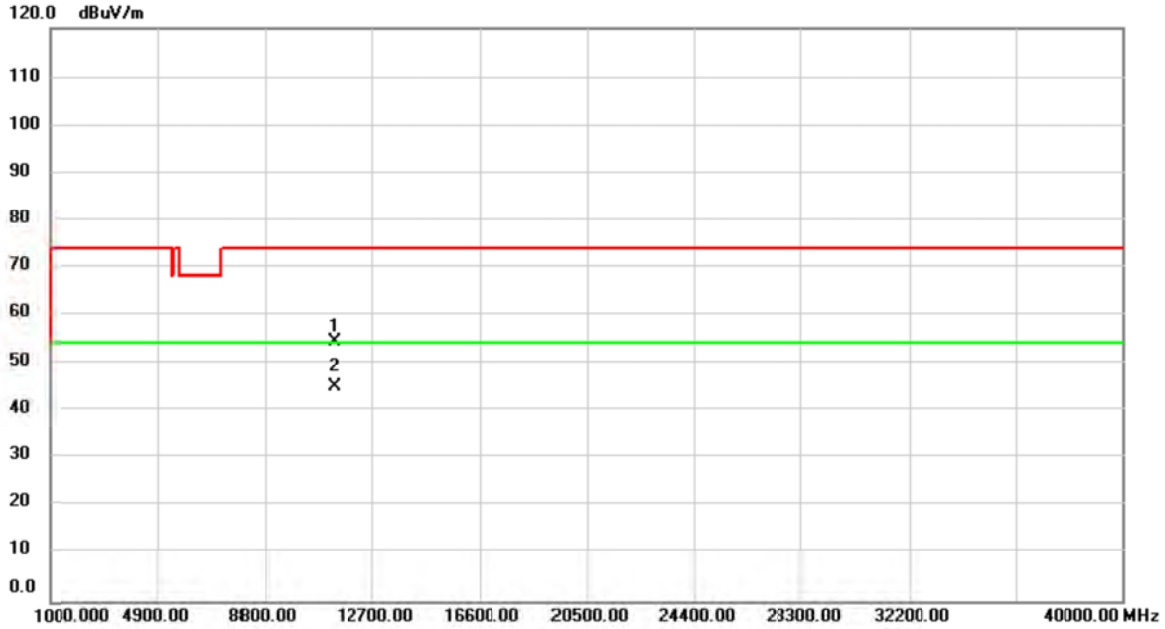
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5670.000	67.94	39.36	107.30	74.00	33.30	peak	No Limit
2	*	5670.000	60.27	39.36	99.63	54.00	45.63	AVG	No Limit
3		5760.000	21.17	39.62	60.79	68.20	-7.41	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5670MHz

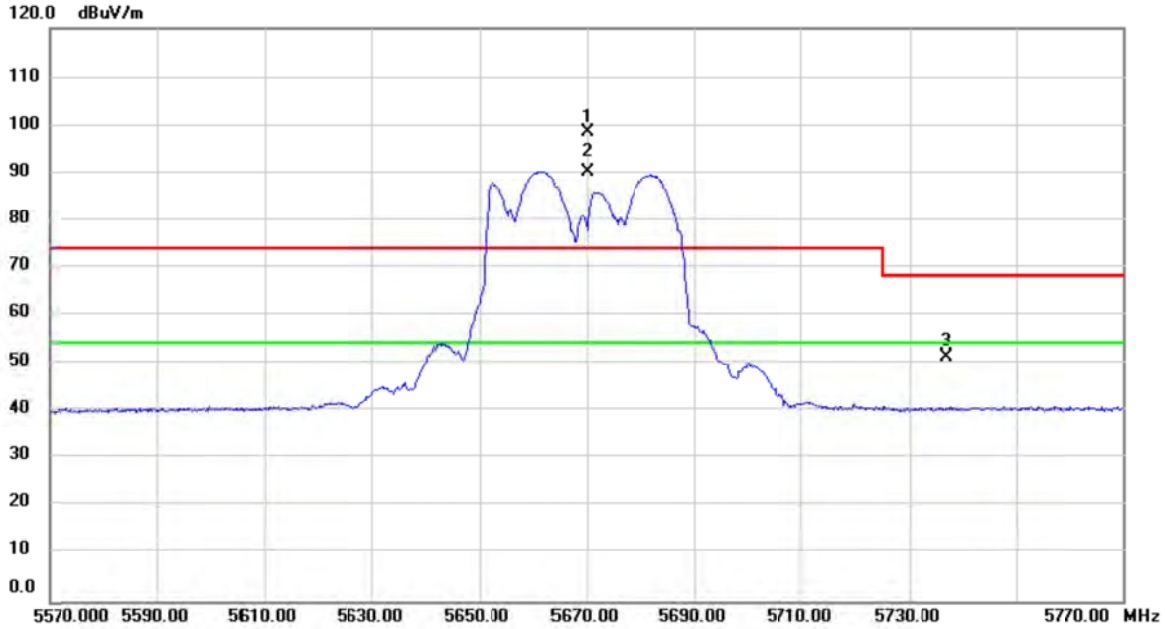
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11340.00	49.67	4.93	54.60	74.00	-19.40	peak	
2	*	11340.00	40.12	4.93	45.05	54.00	-8.95	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5670MHz

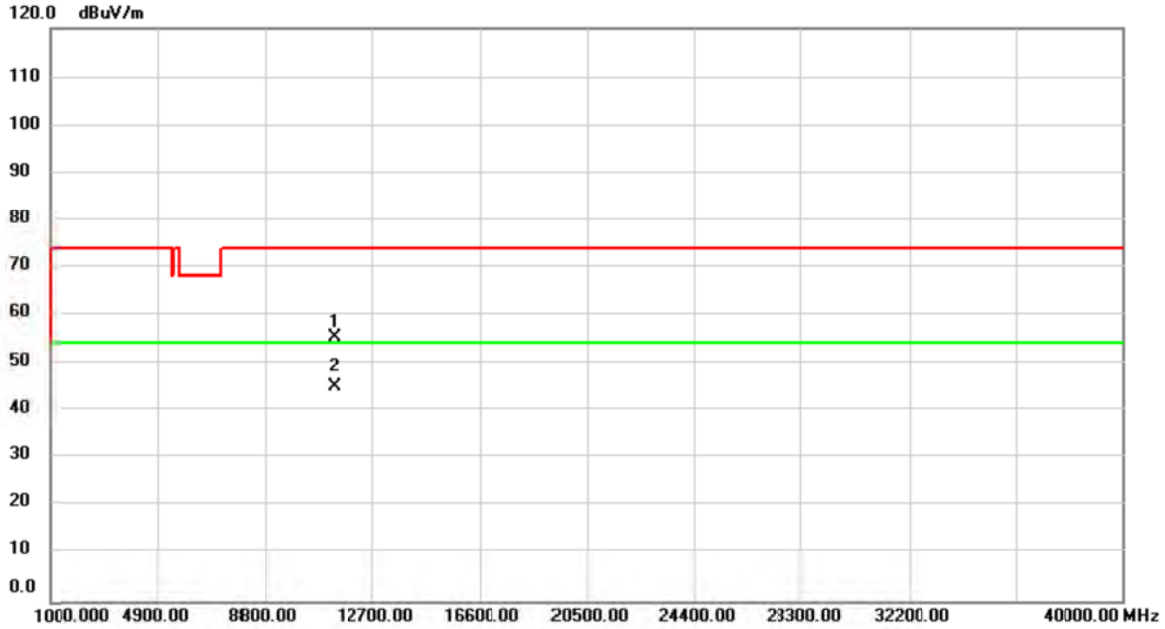
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5670.000	59.33	39.36	98.69	74.00	24.69	peak	No Limit
2	*	5670.000	50.88	39.36	90.24	54.00	36.24	AVG	No Limit
3		5737.150	11.76	39.56	51.32	68.20	-16.88	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX N40 Mode 5670MHz

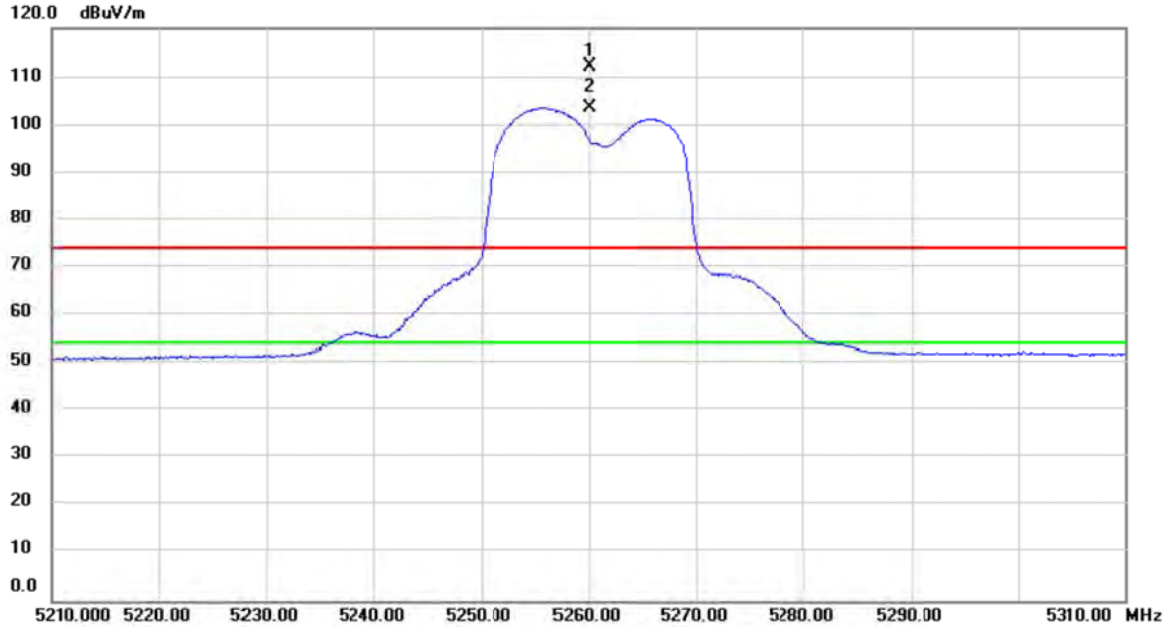
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11340.00	50.32	4.93	55.25	74.00	-18.75	peak	
2	*	11340.00	40.09	4.93	45.02	54.00	-8.98	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC20 Mode 5260MHz

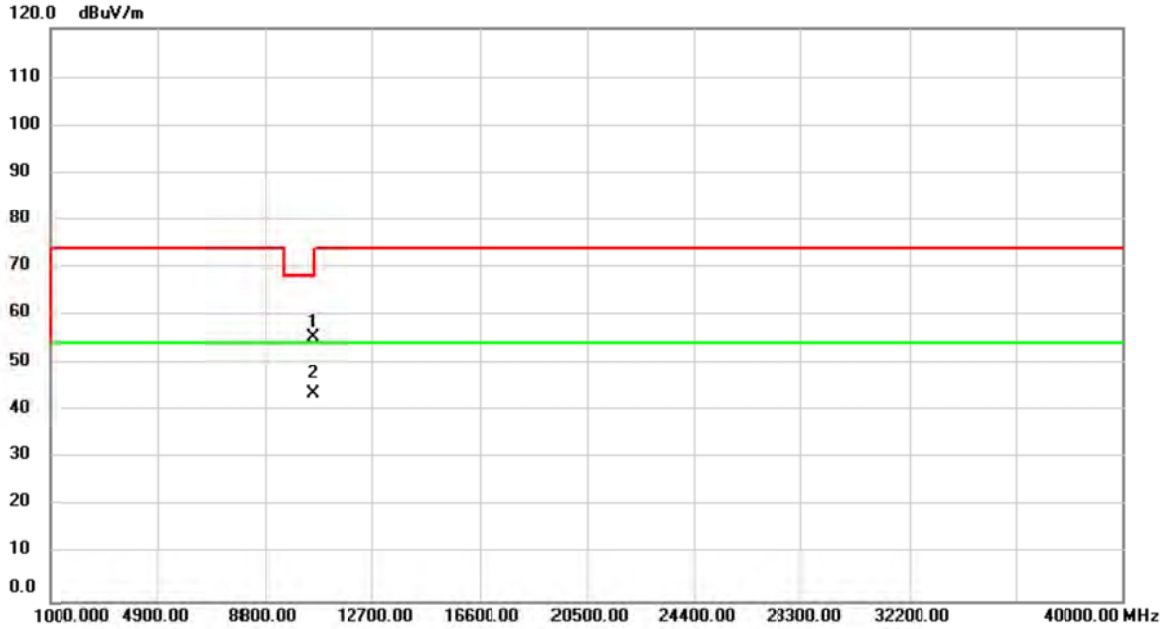
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	73.50	38.58	112.08	74.00	38.08	peak	No Limit
2	*	5260.000	65.03	38.58	103.61	54.00	49.61	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC20 Mode 5260MHz

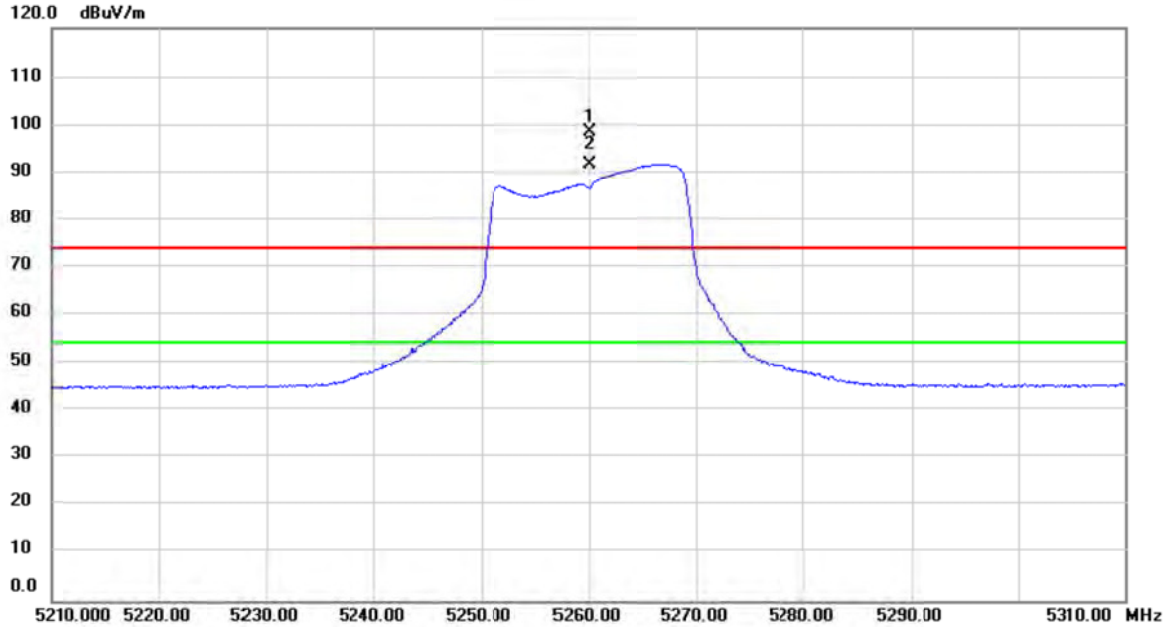
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10520.00	52.02	3.25	55.27	68.20	-12.93	peak	
2	*	10520.00	40.28	3.25	43.53	54.00	-10.47	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC20 Mode 5260MHz

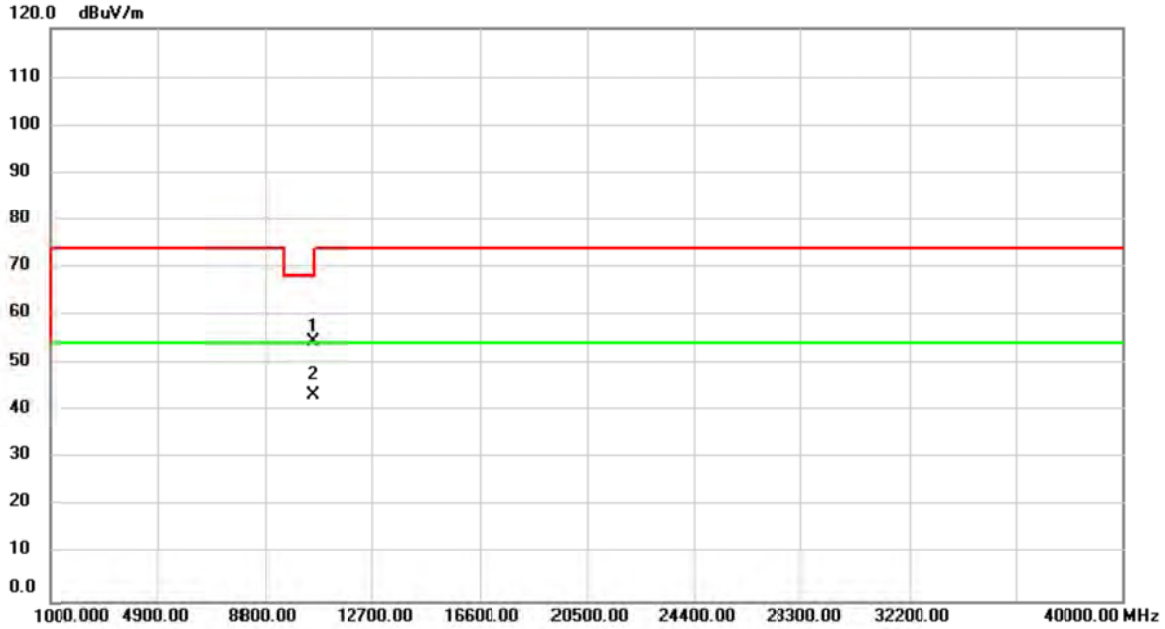
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5260.000	60.11	38.58	98.69	74.00	24.69	peak	No Limit
2	*	5260.000	53.16	38.58	91.74	54.00	37.74	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC20 Mode 5260MHz

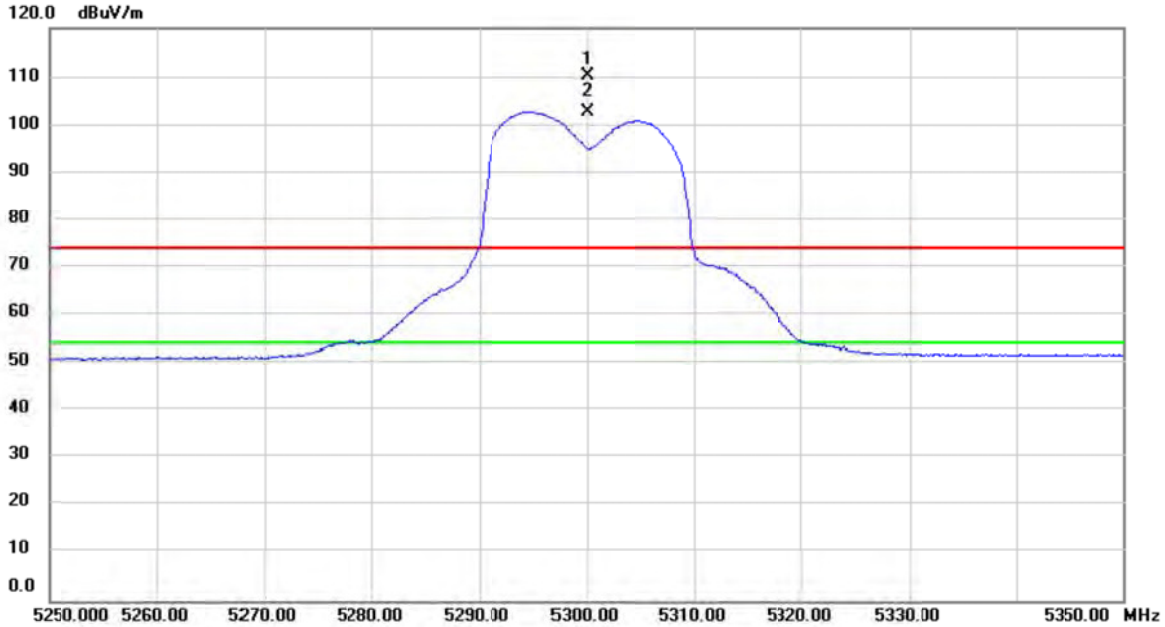
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10520.00	51.14	3.25	54.39	68.20	-13.81	peak	
2	*	10520.00	40.21	3.25	43.46	54.00	-10.54	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

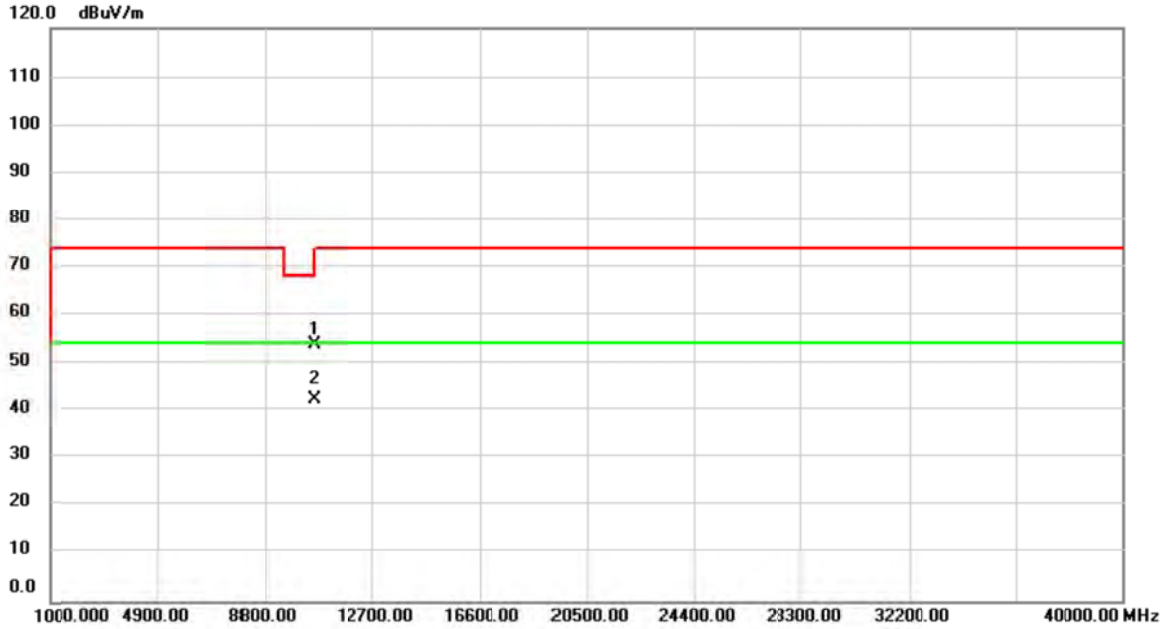
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	71.56	38.63	110.19	74.00	36.19	peak	No Limit
2	*	5300.000	64.18	38.63	102.81	54.00	48.81	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

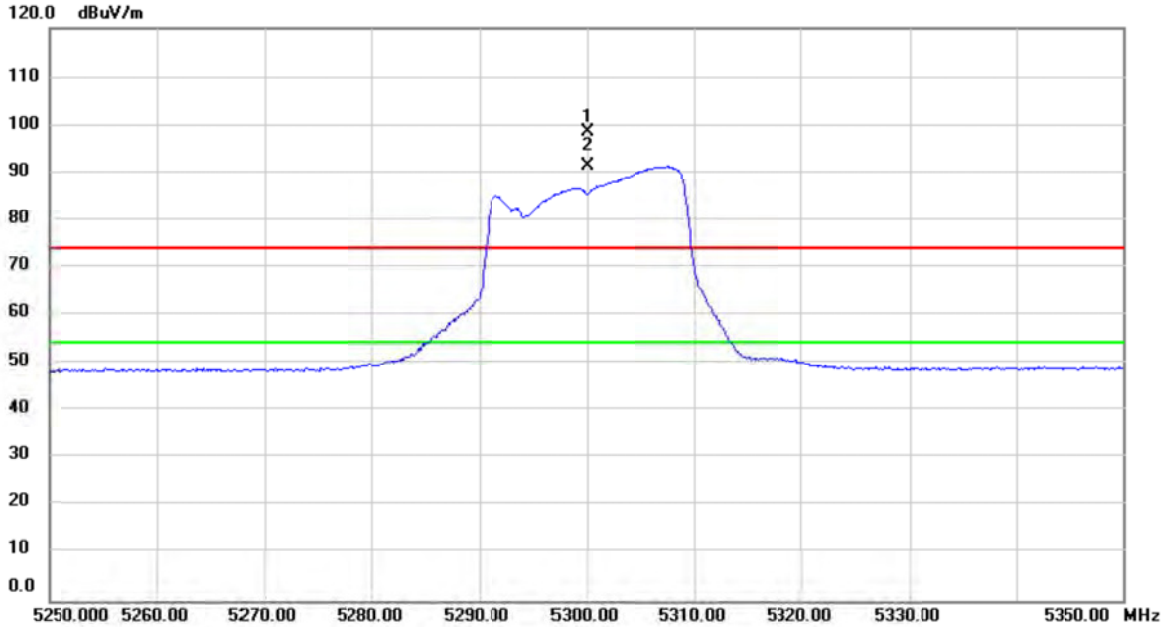
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	50.57	3.42	53.99	68.20	-14.21	peak	
2	*	10600.00	39.13	3.42	42.55	54.00	-11.45	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

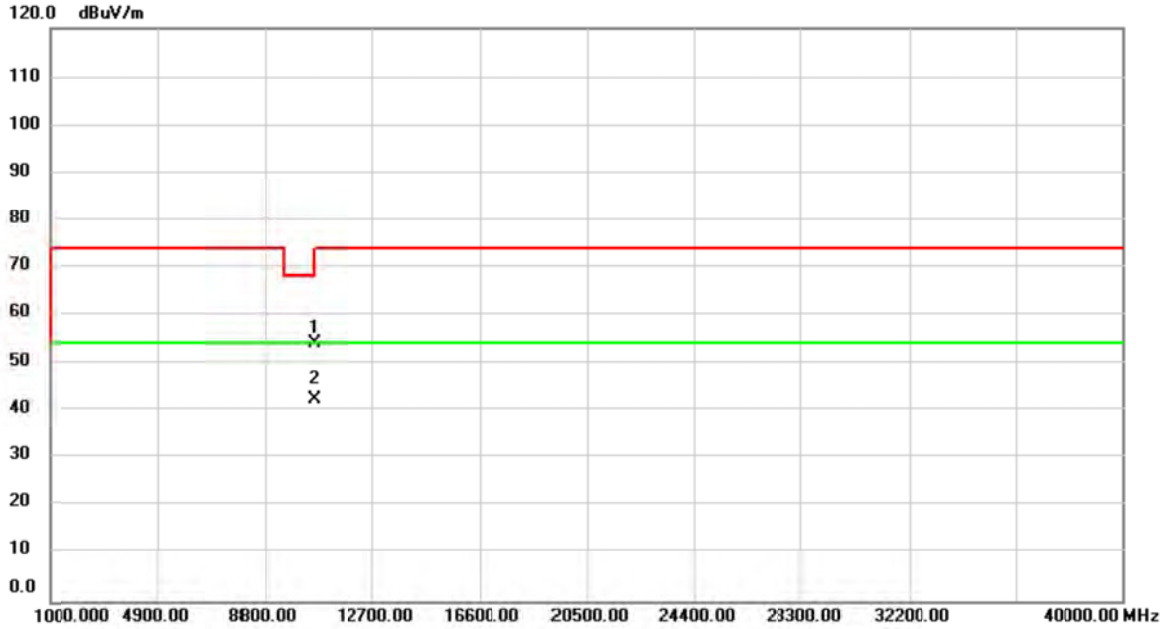
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5300.000	59.89	38.63	98.52	74.00	24.52	peak	No Limit
2	*	5300.000	52.60	38.63	91.23	54.00	37.23	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX A Mode 5300MHz

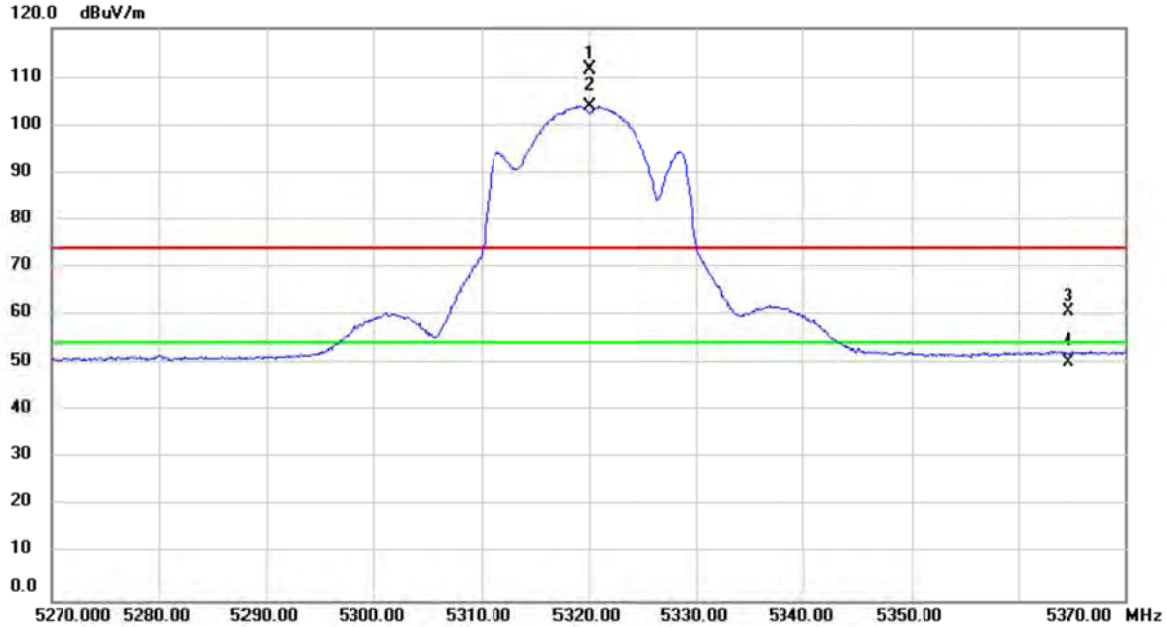
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10600.00	50.61	3.42	54.03	68.20	-14.17	peak	
2	*	10600.00	39.12	3.42	42.54	54.00	-11.46	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC20 Mode 5320MHz

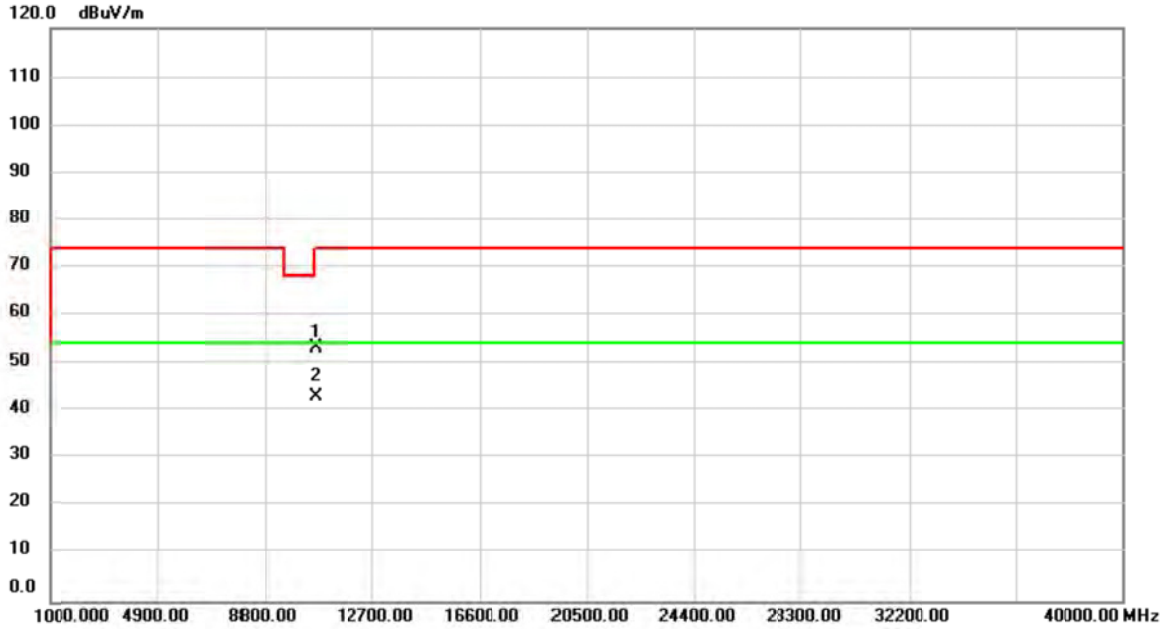
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5320.000	72.94	38.66	111.60	74.00	37.60	peak	No Limit
2	*	5320.000	65.28	38.66	103.94	54.00	49.94	AVG	No Limit
3		5364.740	21.99	38.71	60.70	74.00	-13.30	peak	
4		5364.740	11.55	38.71	50.26	54.00	-3.74	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC20 Mode 5320MHz

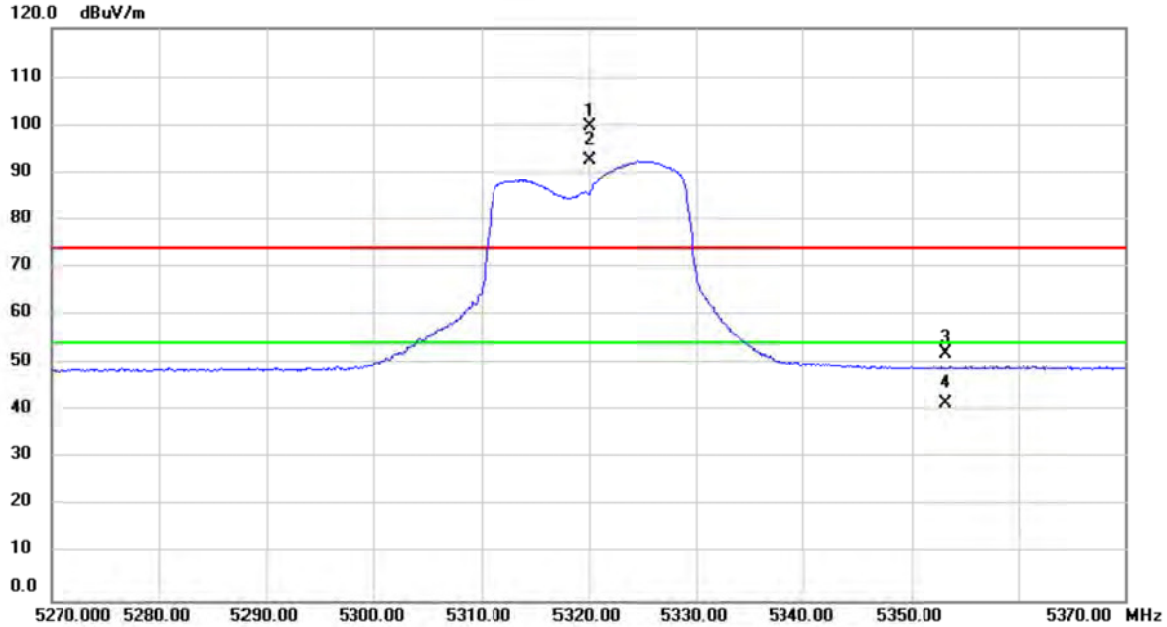
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	49.87	3.51	53.38	74.00	-20.62	peak	
2	*	10640.00	39.47	3.51	42.98	54.00	-11.02	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC20 Mode 5320MHz

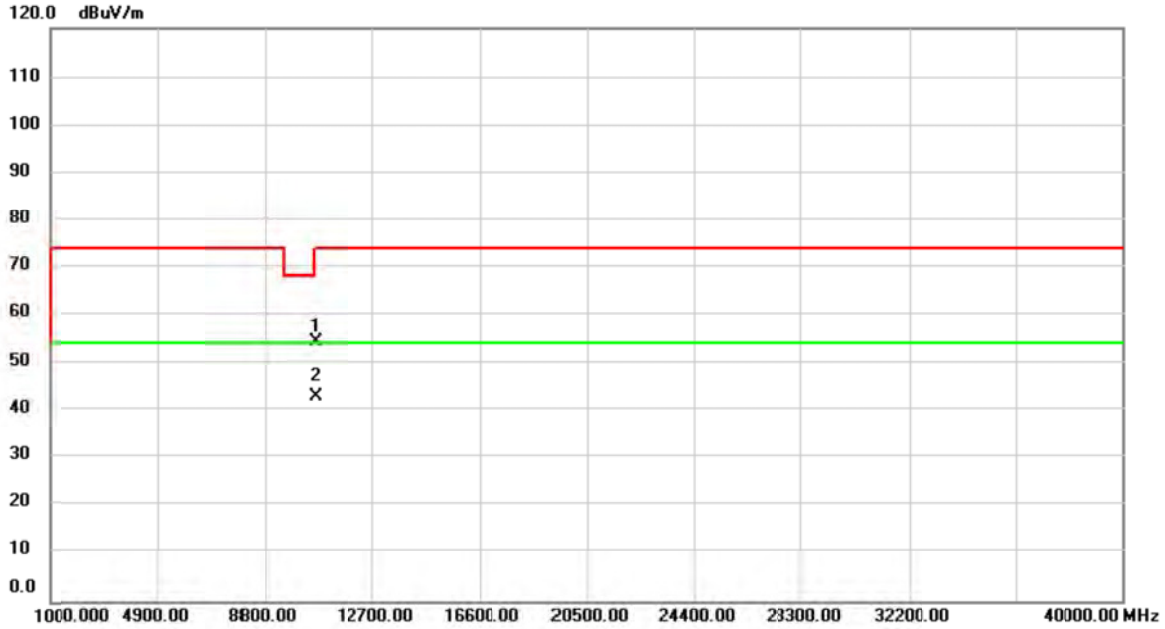
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5320.000	61.22	38.66	99.88	74.00	25.88	peak	No Limit
2	*	5320.000	53.83	38.66	92.49	54.00	38.49	AVG	No Limit
3		5353.280	13.47	38.69	52.16	74.00	-21.84	peak	
4		5353.280	2.84	38.69	41.53	54.00	-12.47	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC20 Mode 5320MHz

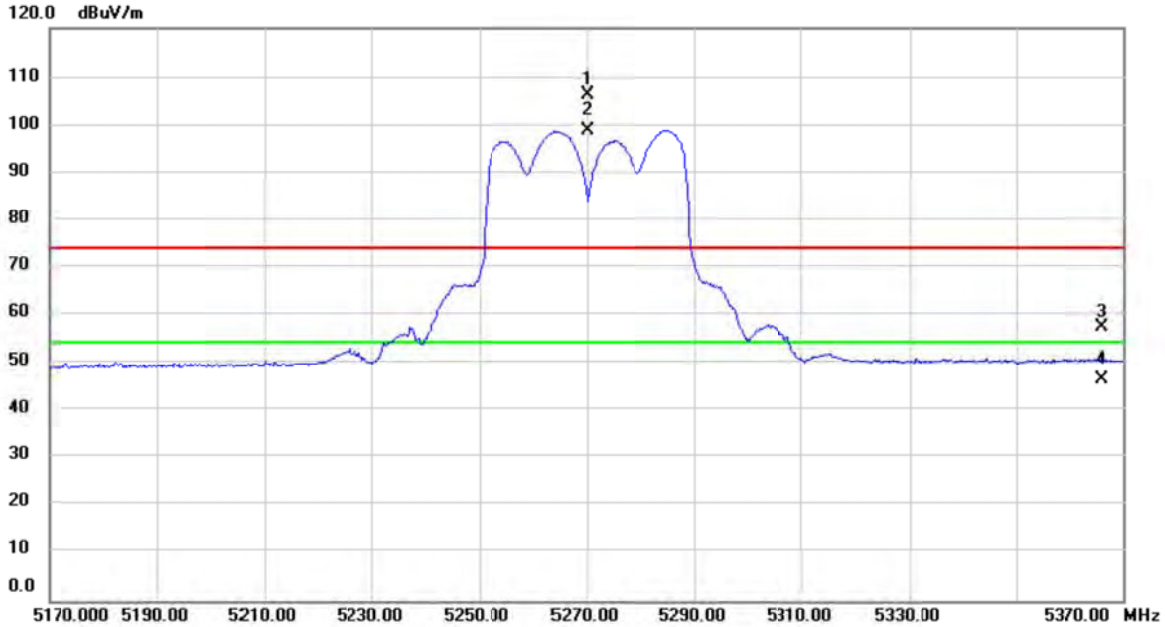
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10640.00	51.07	3.51	54.58	74.00	-19.42	peak	
2	*	10640.00	39.50	3.51	43.01	54.00	-10.99	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC40 Mode 5270MHz

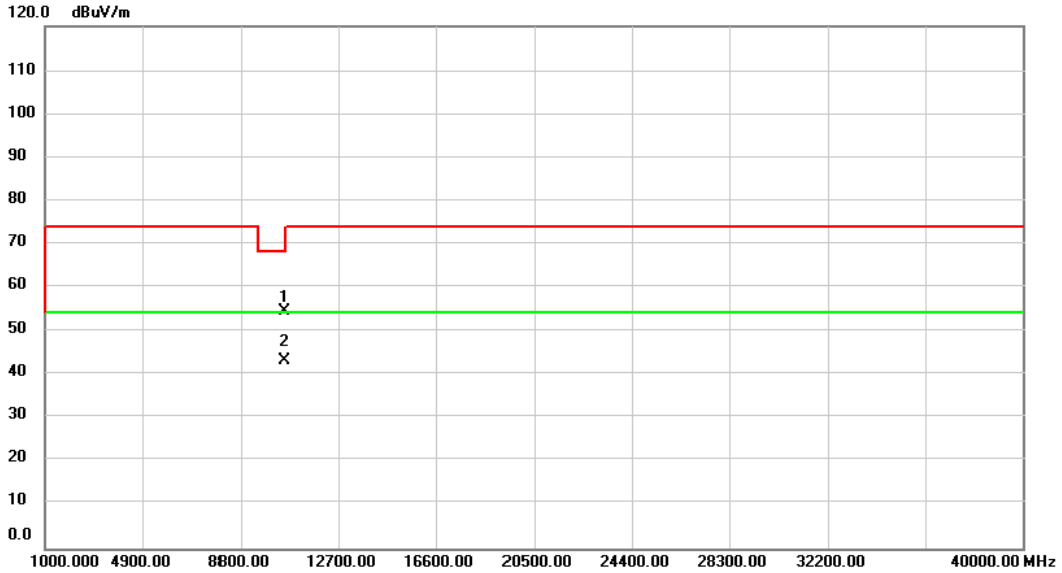
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5270.000	67.72	38.60	106.32	74.00	32.32	peak	No Limit
2	*	5270.000	60.36	38.60	98.96	54.00	44.96	AVG	No Limit
3		5366.120	18.82	38.71	57.53	74.00	-16.47	peak	
4		5366.120	8.07	38.71	46.78	54.00	-7.22	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC40 Mode 5270MHz

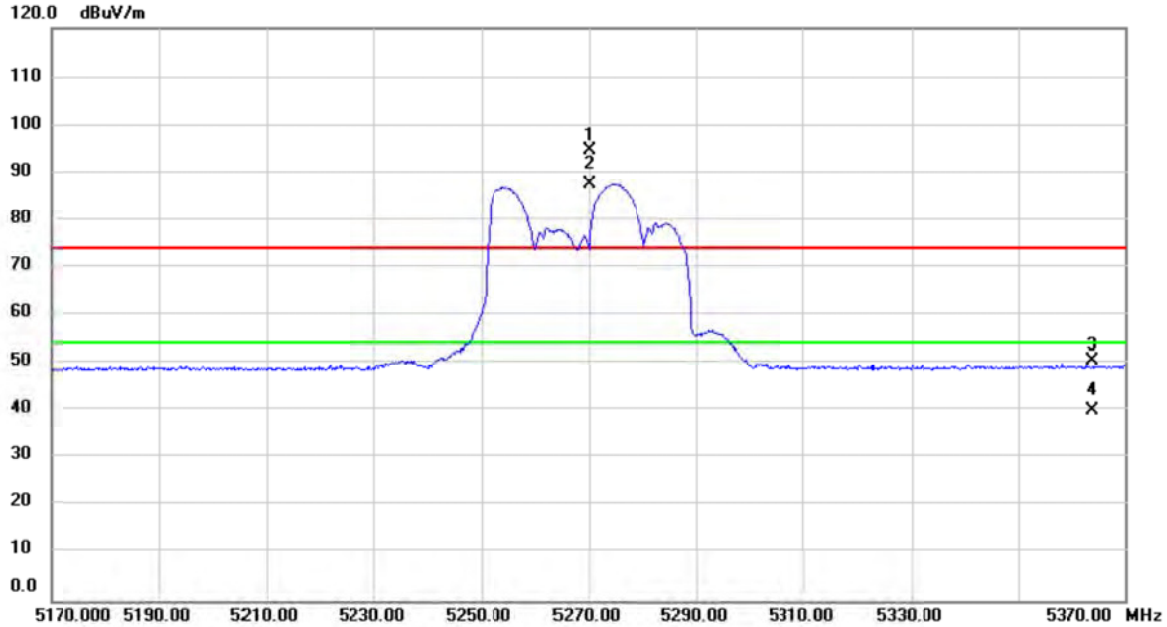
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10540.00	51.29	3.29	54.58	68.20	-13.62	peak	
2	*	10540.00	39.95	3.29	43.24	54.00	-10.76	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC40 Mode 5270MHz

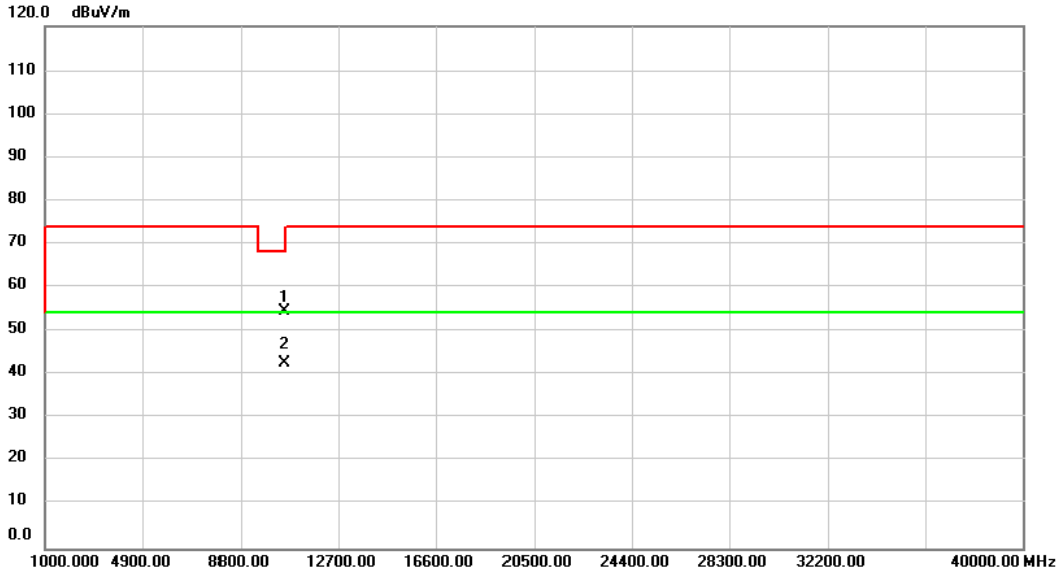
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5270.000	55.99	38.60	94.59	74.00	20.59	peak	No Limit
2	*	5270.000	48.90	38.60	87.50	54.00	33.50	AVG	No Limit
3		5364.020	11.94	38.71	50.65	74.00	-23.35	peak	
4		5364.020	1.48	38.71	40.19	54.00	-13.81	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC40 Mode 5270MHz

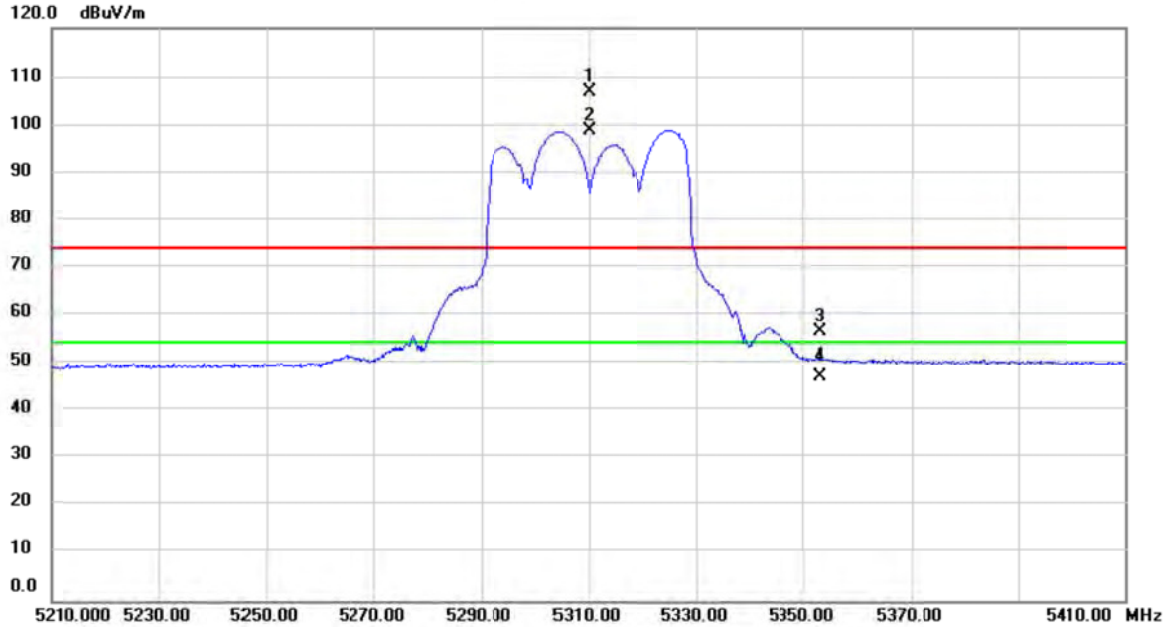
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10540.00	51.27	3.29	54.56	68.20	-13.64	peak	
2	*	10540.00	39.52	3.29	42.81	54.00	-11.19	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC40 Mode 5310MHz

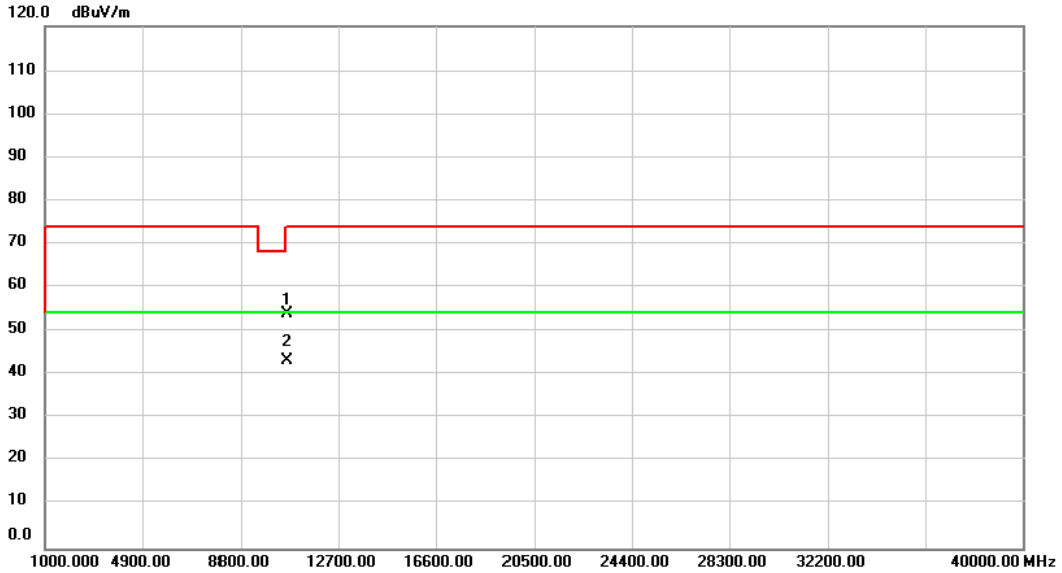
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5310.000	68.28	38.64	106.92	74.00	32.92	peak	No Limit
2	X	5310.000	60.33	38.64	98.97	74.00	24.97	peak	No Limit
3		5353.420	17.80	38.69	56.49	74.00	-17.51	peak	
4		5353.420	8.59	38.69	47.28	54.00	-6.72	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC40 Mode 5310MHz

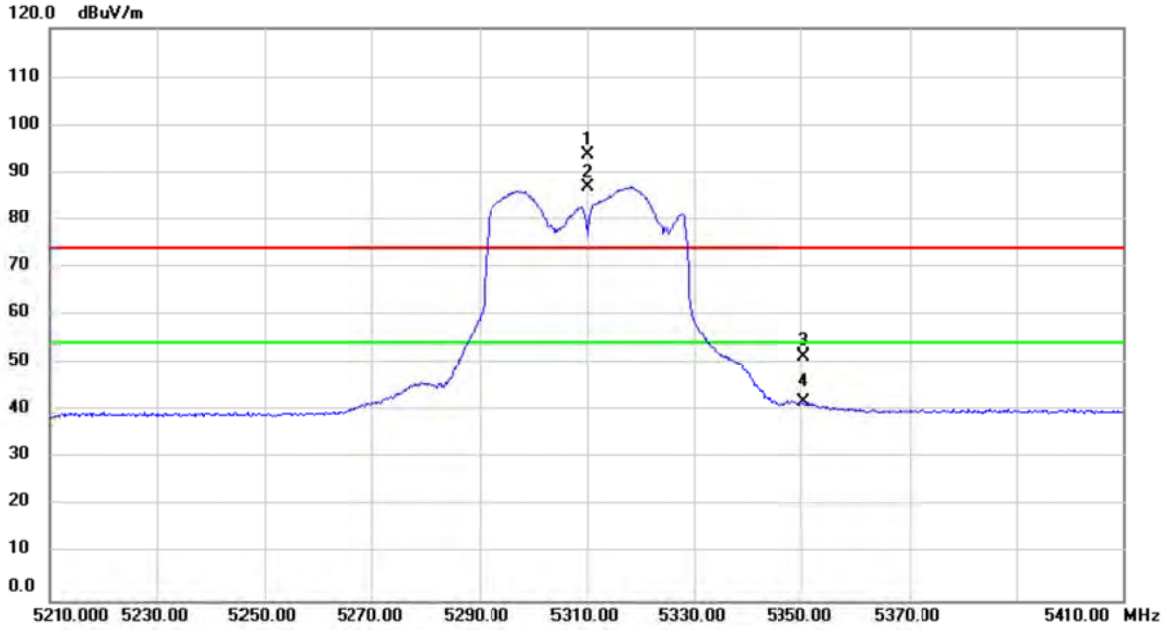
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10620.00	50.52	3.45	53.97	74.00	-20.03	peak	
2	*	10620.00	39.77	3.45	43.22	54.00	-10.78	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC40 Mode 5310MHz

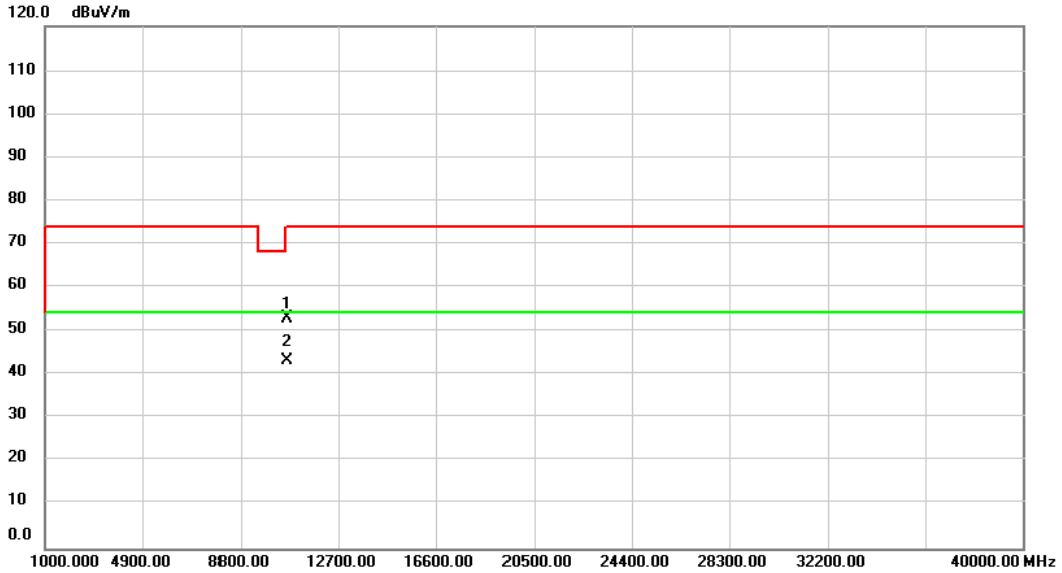
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5310.000	55.17	38.64	93.81	74.00	19.81	peak	No Limit
2	X	5310.000	48.14	38.64	86.78	74.00	12.78	peak	No Limit
3		5350.600	12.64	38.69	51.33	74.00	-22.67	peak	
4		5350.600	3.26	38.69	41.95	54.00	-12.05	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC40 Mode 5310MHz

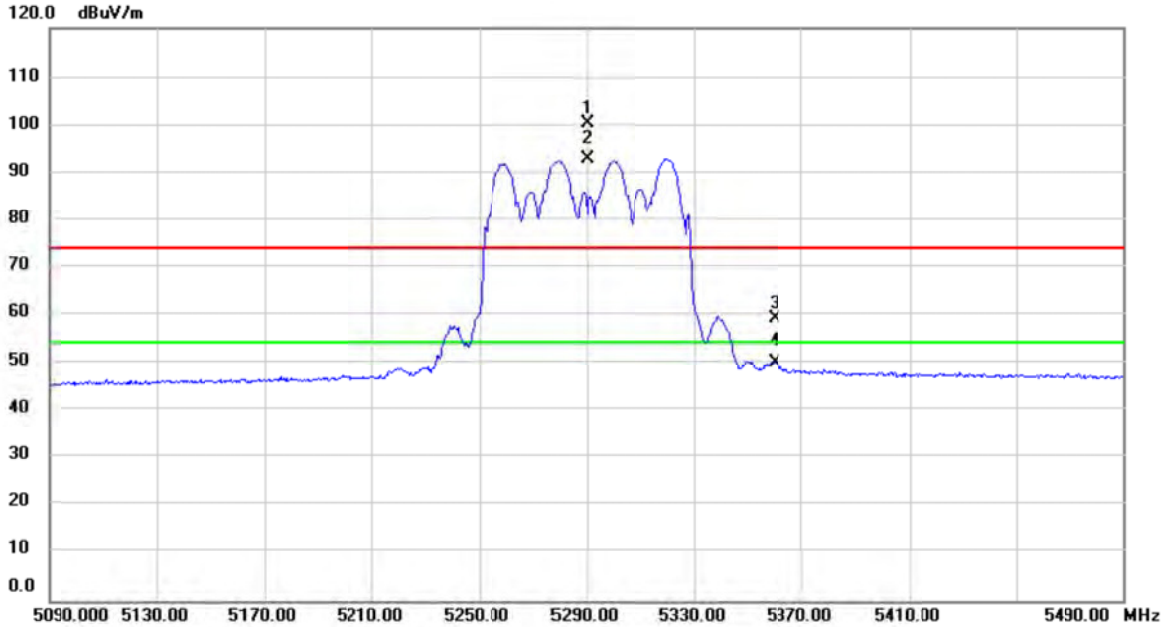
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10620.00	49.47	3.45	52.92	74.00	-21.08	peak	
2	*	10620.00	39.96	3.45	43.41	54.00	-10.59	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC80 Mode 5290MHz

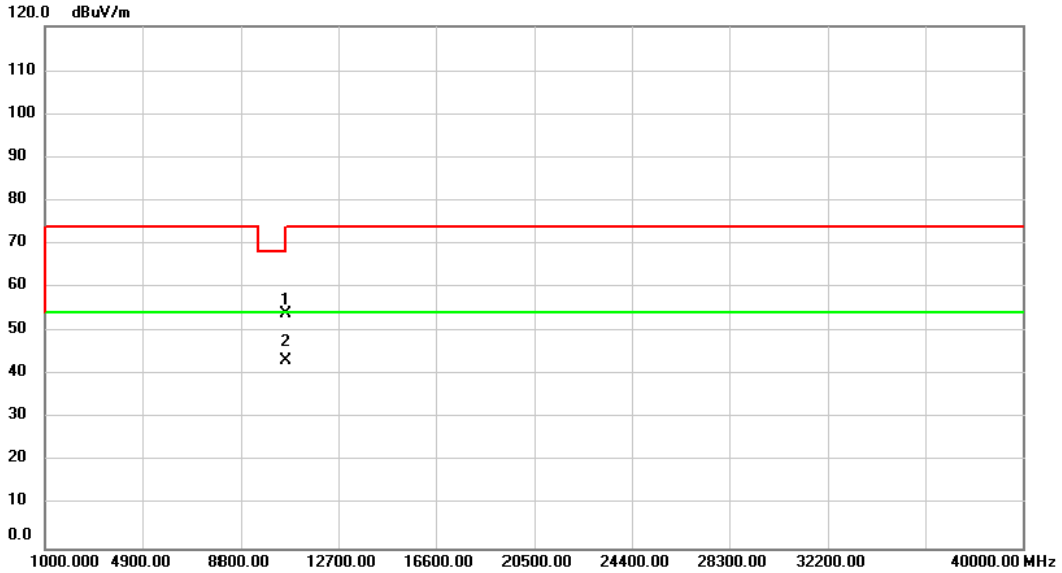
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5290.000	61.62	38.62	100.24	74.00	26.24	peak	No Limit
2	*	5290.000	54.30	38.62	92.92	54.00	38.92	AVG	No Limit
3		5360.000	20.54	38.70	59.24	74.00	-14.76	peak	
4		5360.000	11.68	38.70	50.38	54.00	-3.62	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC80 Mode 5290MHz

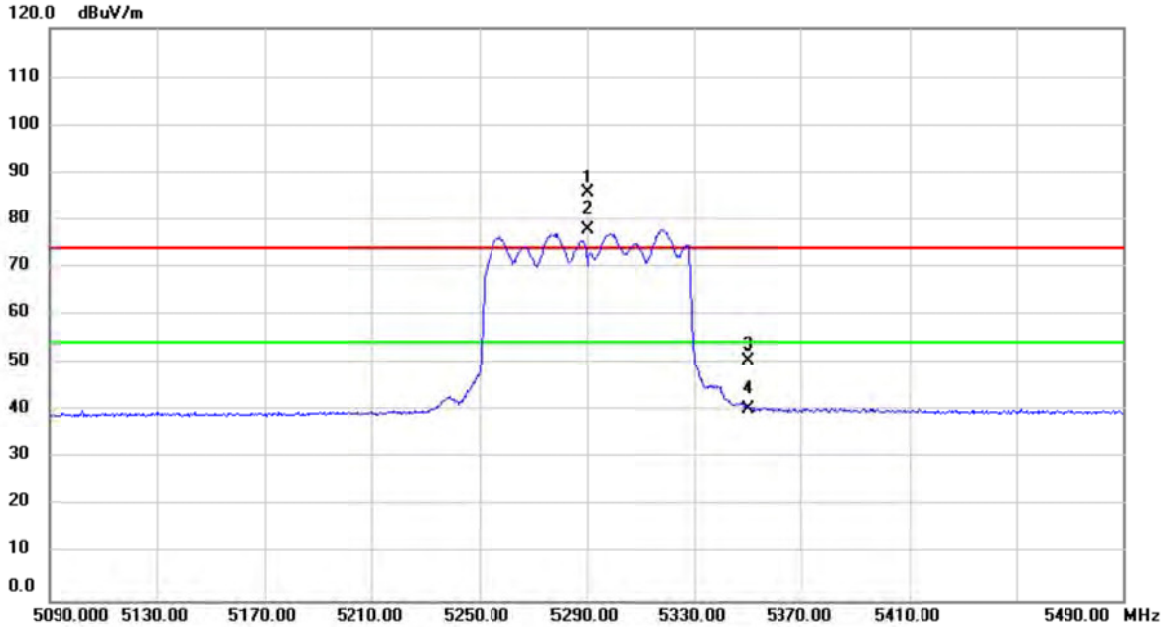
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10580.00	50.39	3.38	53.77	68.20	-14.43	peak	
2	*	10580.00	39.86	3.38	43.24	54.00	-10.76	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC80 Mode 5290MHz

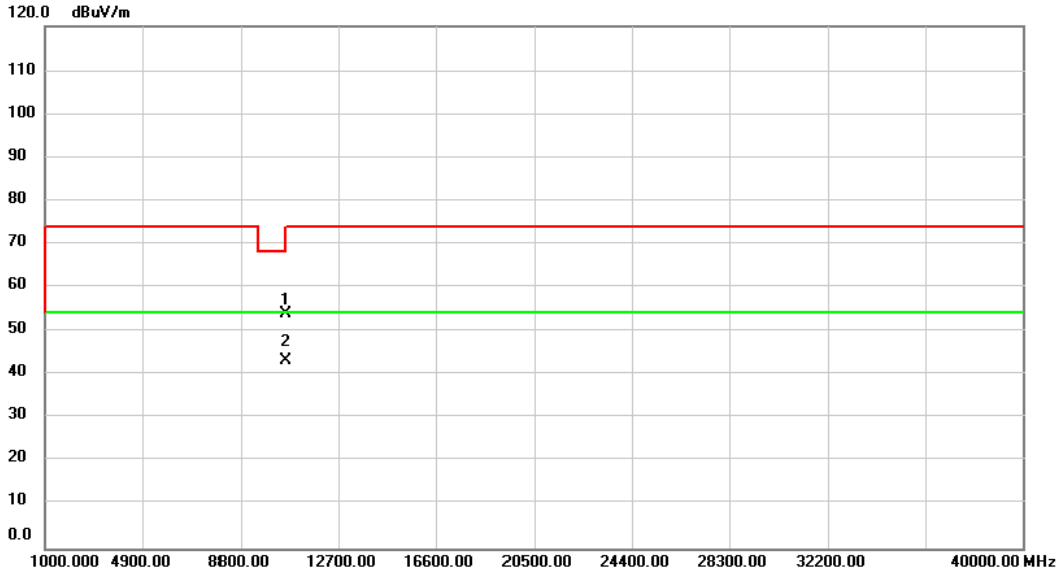
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5290.000	47.05	38.62	85.67	74.00	11.67	peak	No Limit
2	*	5290.000	39.16	38.62	77.78	54.00	23.78	AVG	No Limit
3		5350.000	11.84	38.69	50.53	74.00	-23.47	peak	
4		5350.000	1.77	38.69	40.46	54.00	-13.54	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2A/ TX AC80 Mode 5290MHz

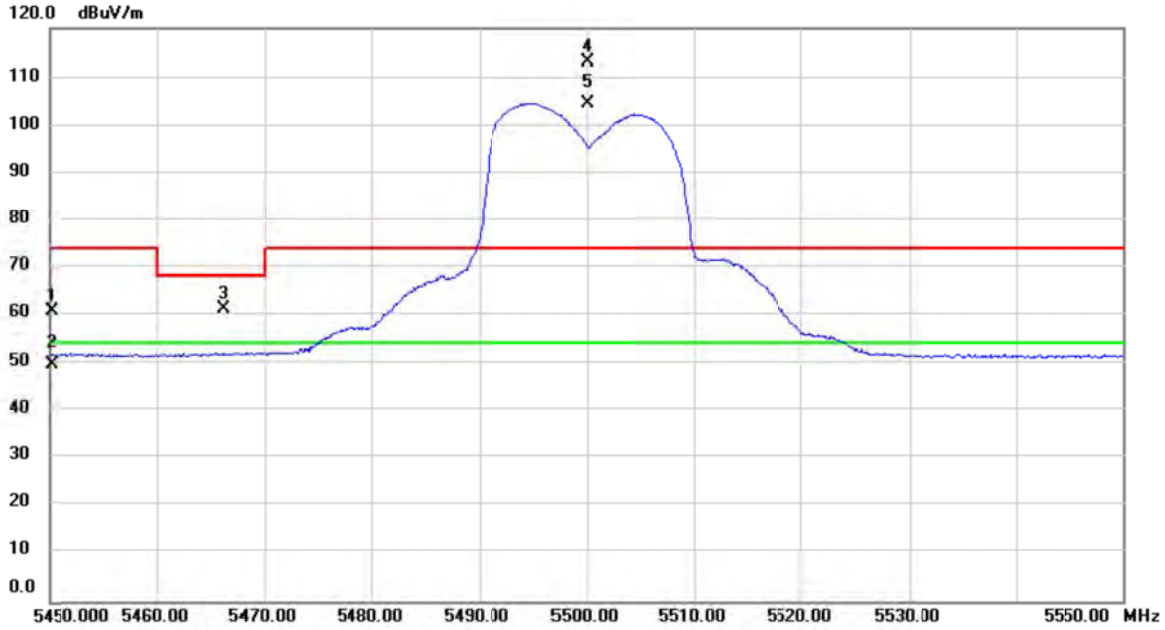
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10580.00	50.54	3.38	53.92	68.20	-14.28	peak	
2	*	10580.00	40.00	3.38	43.38	54.00	-10.62	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5500MHz

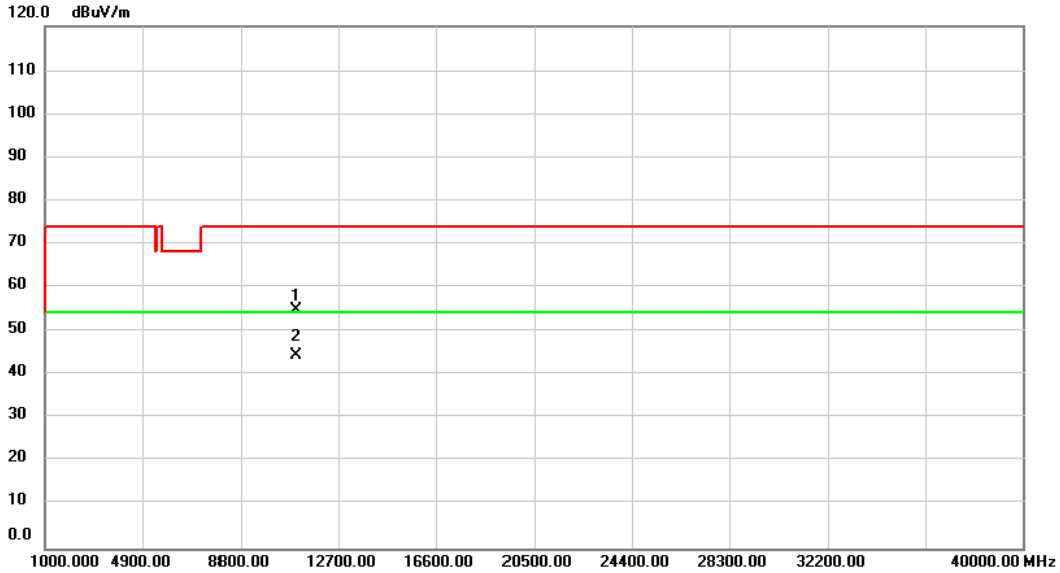
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5450.210	21.85	38.81	60.66	74.00	-13.34	peak	
2		5450.210	11.12	38.81	49.93	54.00	-4.07	AVG	
3		5466.340	22.43	38.83	61.26	68.20	-6.94	peak	
4	X	5500.000	74.20	38.87	113.07	74.00	39.07	peak	No Limit
5	*	5500.000	65.78	38.87	104.65	54.00	50.65	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5500MHz

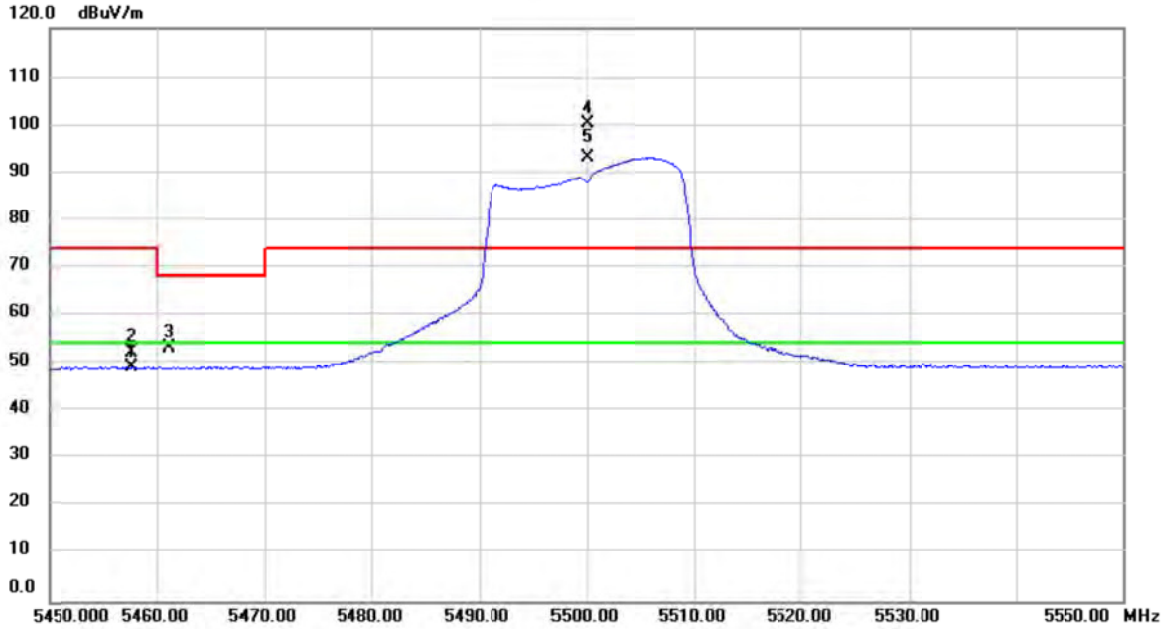
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	50.37	4.26	54.63	74.00	-19.37	peak	
2	*	11000.00	40.26	4.26	44.52	54.00	-9.48	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5500MHz

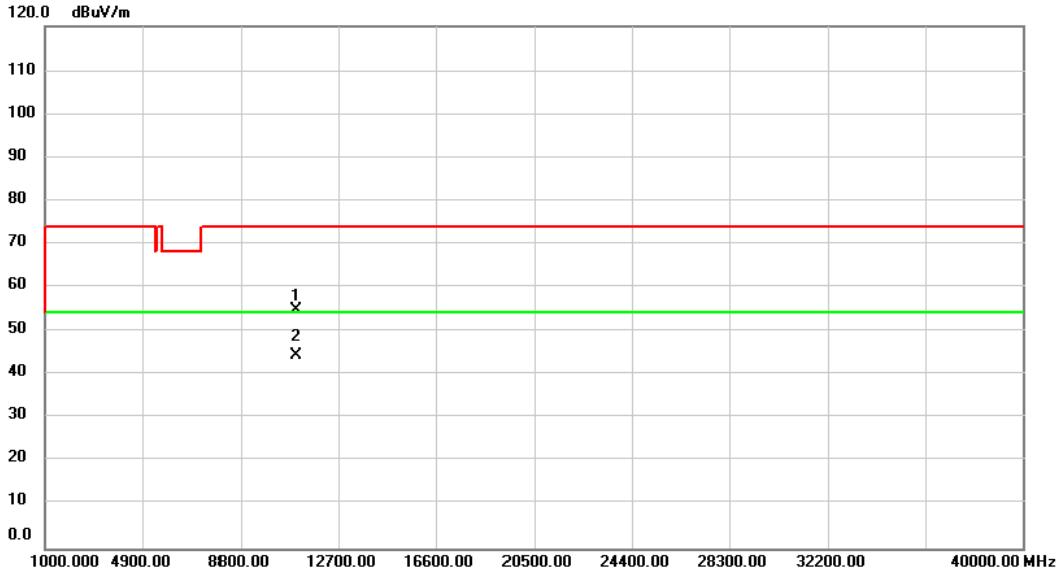
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5457.700	10.63	38.82	49.45	74.00	-24.55	peak	
2		5457.700	13.66	38.82	52.48	74.00	-21.52	peak	
3		5461.120	14.36	38.82	53.18	68.20	-15.02	peak	
4	X	5500.000	61.37	38.87	100.24	74.00	26.24	peak	No Limit
5	*	5500.000	54.27	38.87	93.14	54.00	39.14	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5500MHz

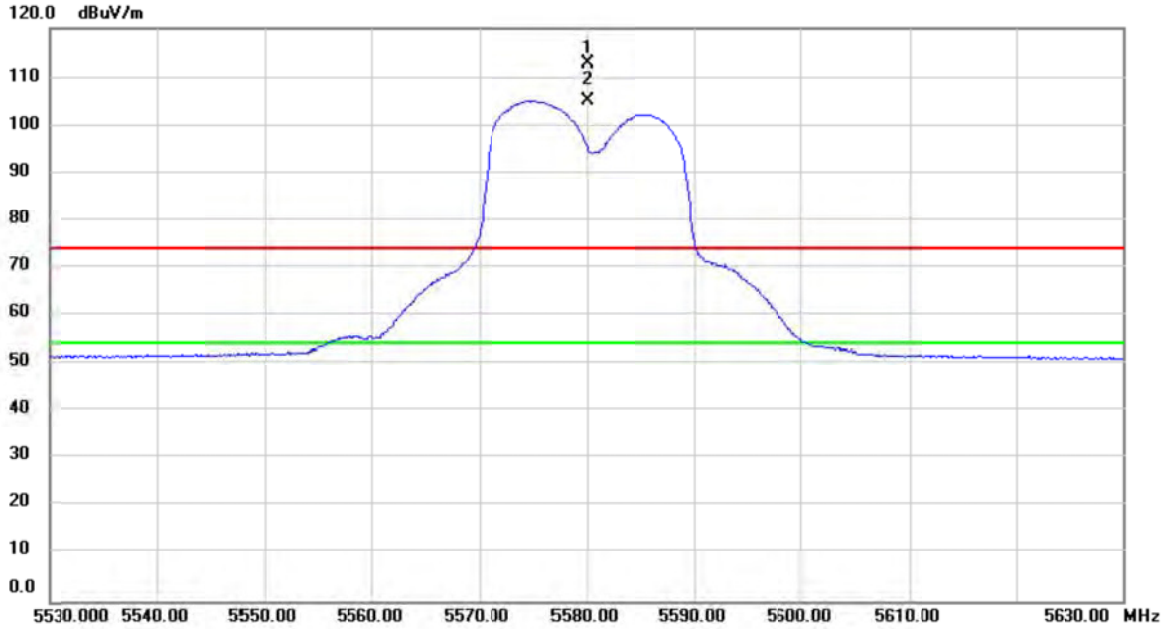
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11000.00	50.47	4.26	54.73	74.00	-19.27	peak	
2	*	11000.00	40.26	4.26	44.52	54.00	-9.48	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5580MHz

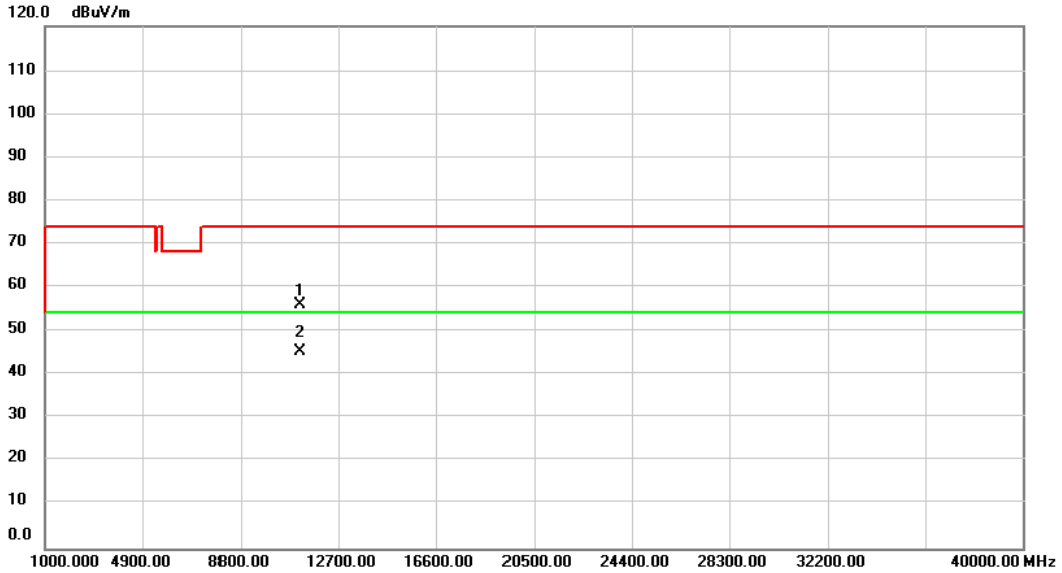
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	73.70	39.10	112.80	74.00	38.80	peak	No Limit
2	*	5580.000	65.97	39.10	105.07	54.00	51.07	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5580MHz

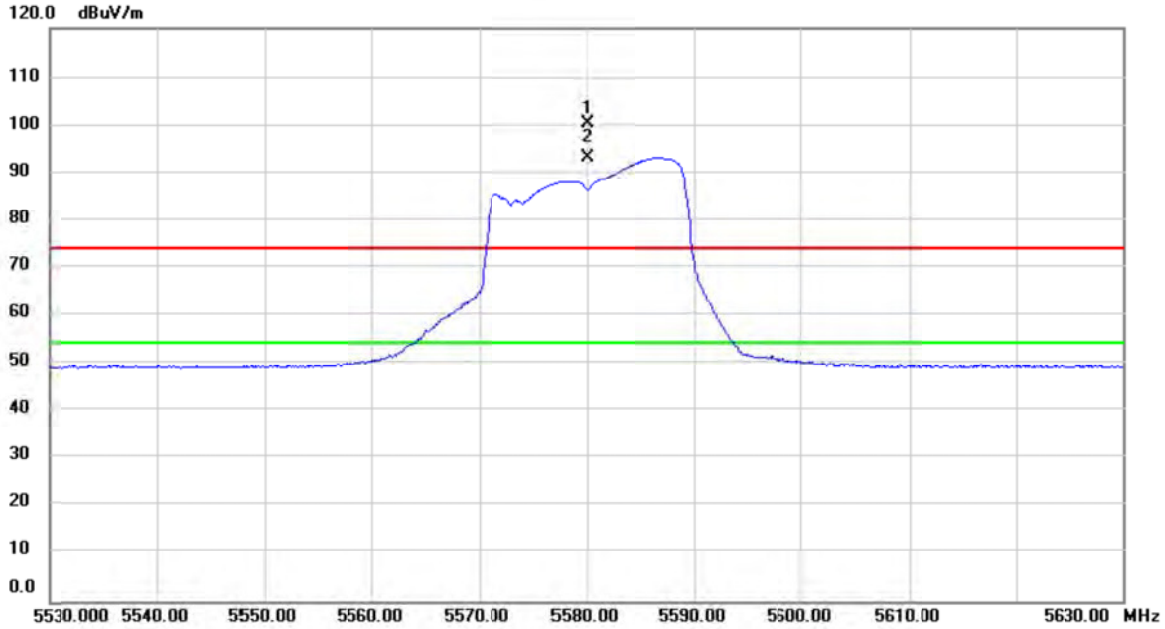
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	51.43	4.58	56.01	74.00	-17.99	peak	
2	*	11160.00	40.93	4.58	45.51	54.00	-8.49	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5580MHz

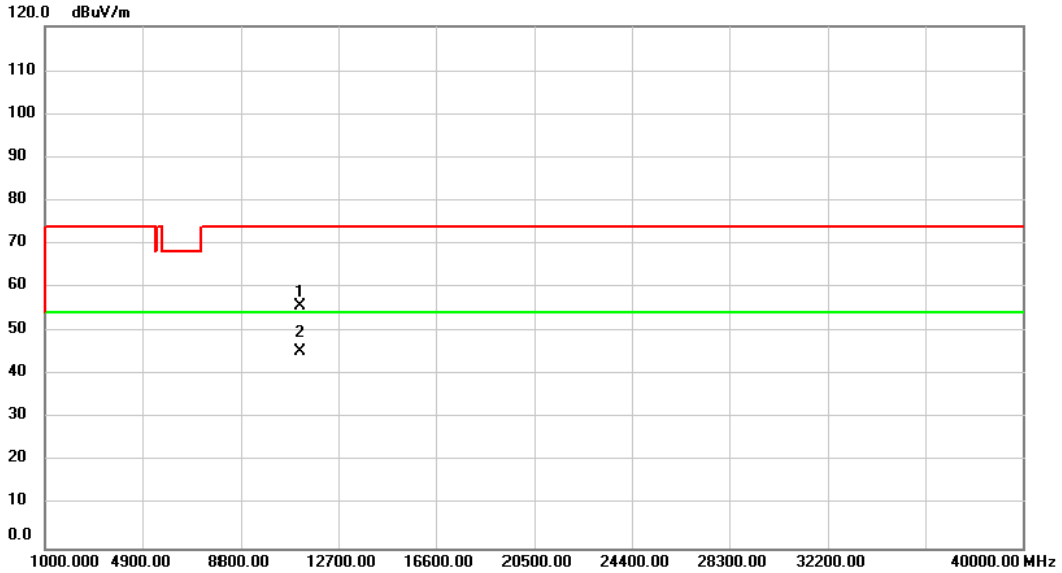
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5580.000	61.31	39.10	100.41	74.00	26.41	peak	No Limit
2	*	5580.000	54.06	39.10	93.16	54.00	39.16	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5580MHz

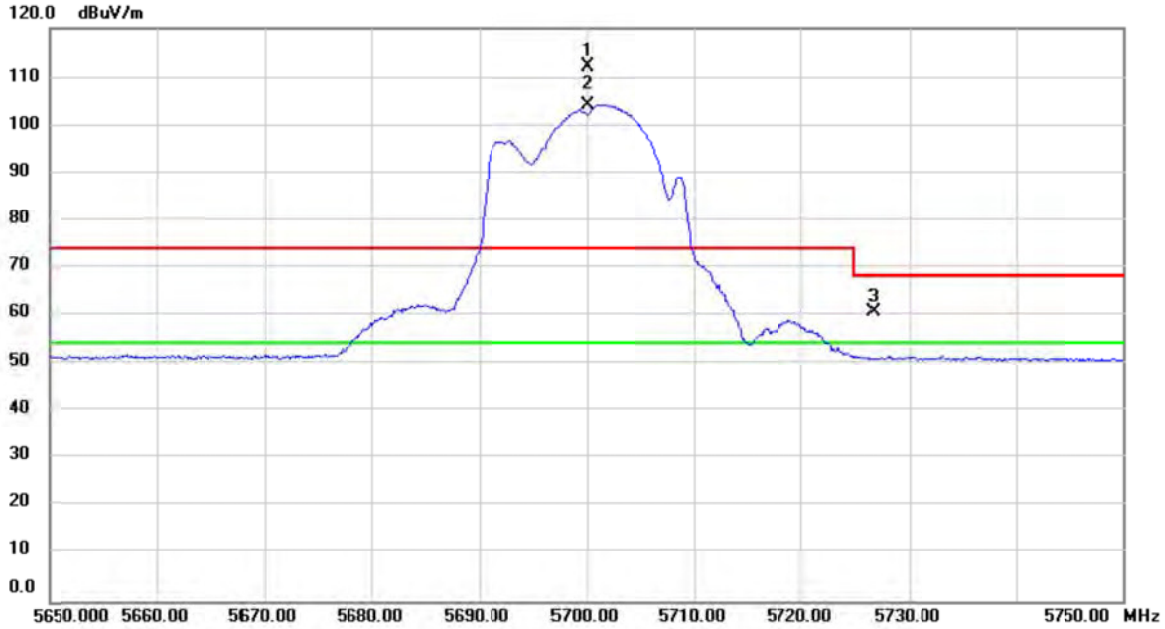
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11160.00	51.06	4.58	55.64	74.00	-18.36	peak	
2	*	11160.00	40.80	4.58	45.38	54.00	-8.62	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5700MHz

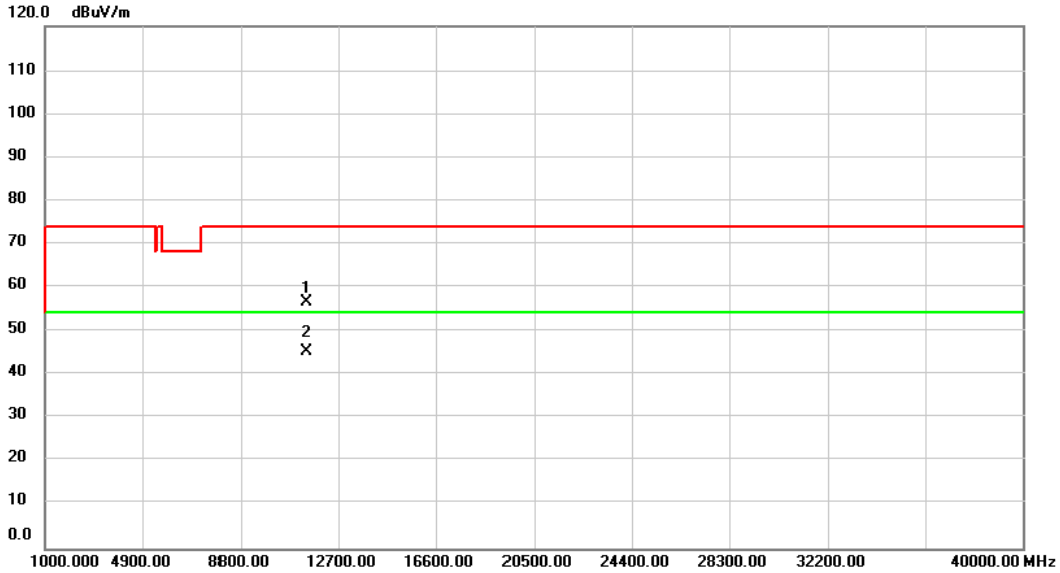
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5700.000	72.51	39.45	111.96	74.00	37.96	peak	No Limit
2	*	5700.000	64.94	39.45	104.39	54.00	50.39	AVG	No Limit
3		5726.750	21.09	39.53	60.62	68.20	-7.58	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5700MHz

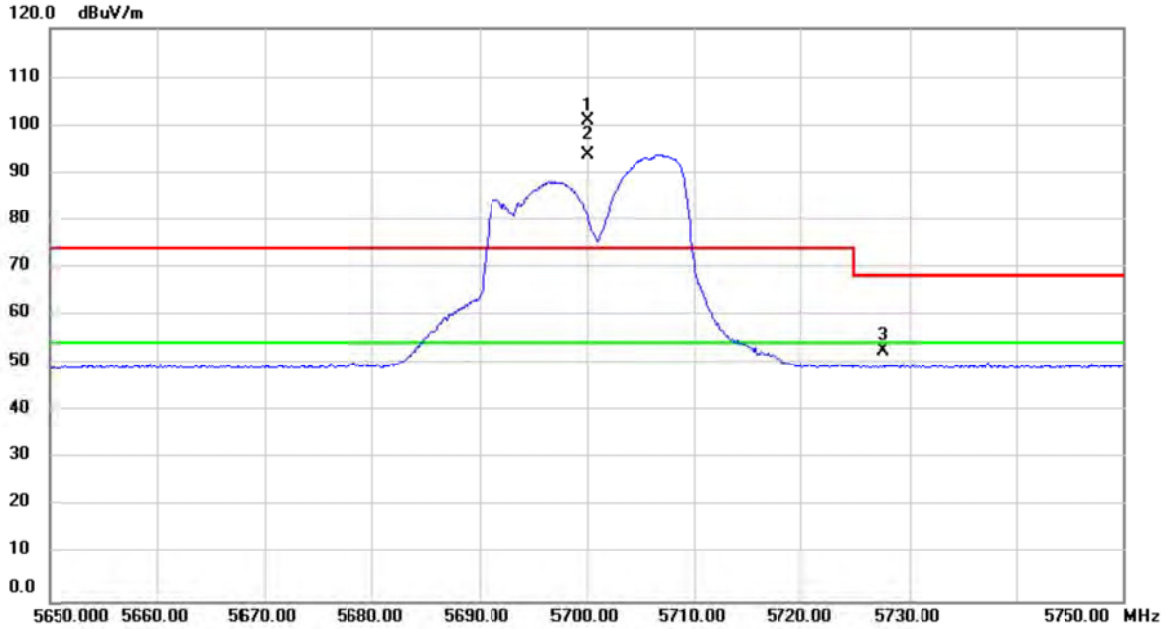
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	51.58	5.05	56.63	74.00	-17.37	peak	
2	*	11400.00	40.41	5.05	45.46	54.00	-8.54	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5700MHz

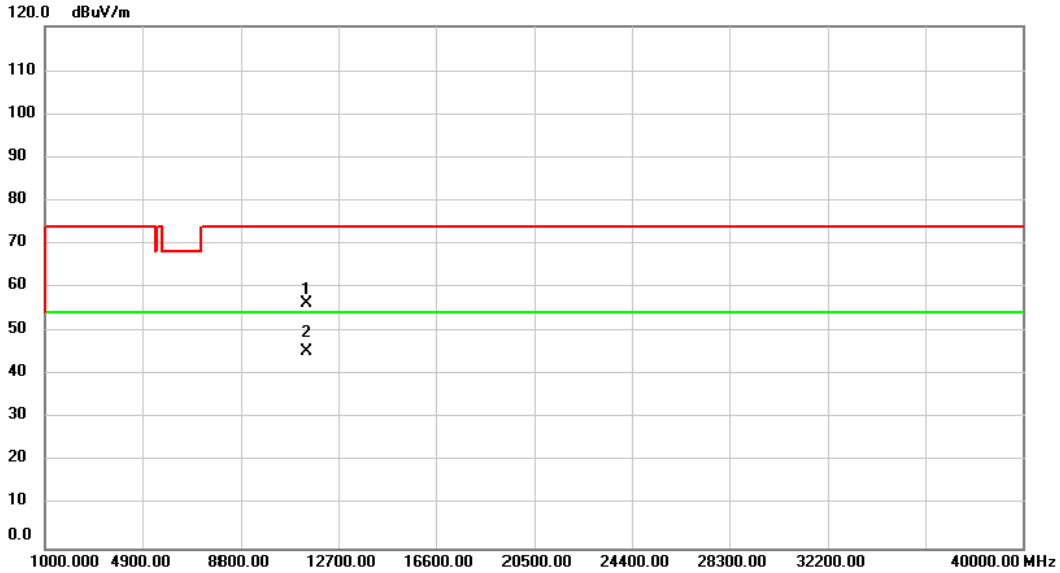
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5700.000	61.65	39.45	101.10	74.00	27.10	peak	No Limit
2	*	5700.000	54.31	39.45	93.76	54.00	39.76	AVG	No Limit
3		5727.575	13.24	39.53	52.77	68.20	-15.43	peak	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC20 Mode 5700MHz

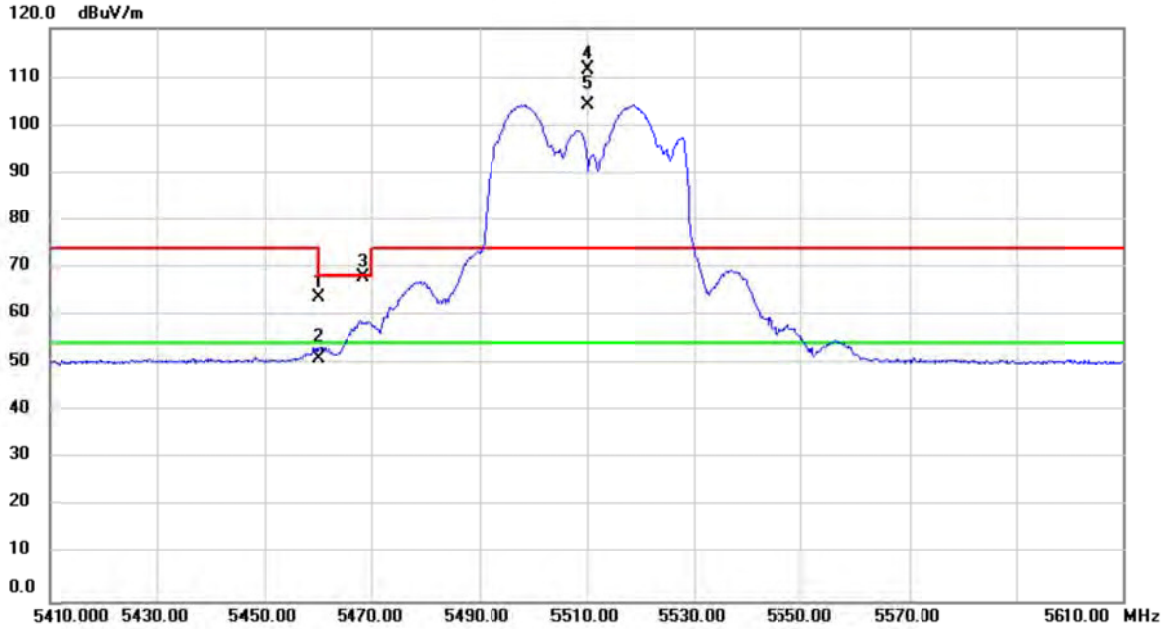
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11400.00	51.18	5.05	56.23	74.00	-17.77	peak	
2	*	11400.00	40.36	5.05	45.41	54.00	-8.59	AVG	

Orthogonal Axis :	X
Test Mode :	UNII-2C/ TX AC40 Mode 5510MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5460.000	24.98	38.82	63.80	68.20	-4.40	peak	
2		5460.000	12.36	38.82	51.18	54.00	-2.82	AVG	
3		5468.560	29.00	38.83	67.83	68.20	-0.37	peak	
4	X	5510.000	72.61	38.89	111.50	74.00	37.50	peak	No Limit
5	*	5510.000	65.44	38.89	104.33	54.00	50.33	AVG	No Limit