

FCC Radio Test Report

FCC ID: TE7EAP245V3

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

Project No. : 1806C097
Equipment : AC1750 Wireless MU-MIMO Gigabit Ceiling Mount
Access Point
Test Model : EAP245
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central
Science and Technology Park, Shennan Rd,
Nanshan, Shenzhen, China

Date of Receipt : Jun. 20, 2018
Date of Test : Jun. 21, 2018 ~ Oct. 11, 2018
Issued Date : Nov. 15, 2018
Tested by : BTL Inc.

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Certificate #5123.02

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

Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1806C097	Original Issue.	Nov. 15, 2018

1. CERTIFICATION

Equipment : AC1750 Wireless MU-MIMO Gigabit Ceiling Mount Access Point
Brand Name : tp-link
Test Model : EAP245
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Manufacturer : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Factory : TP-Link Technologies Co., Ltd.
Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Date of Test : Jun. 21, 2018 ~ Oct. 11, 2018
Test Sample : Engineering Sample No.: D180605110
Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1806C097) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO-17025 quality assessment standard and technical standard(s).

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

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

Note:

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

2.1 TEST FACILITY

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

BTL's test firm number for FCC: 854385

BTL's designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

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

B. Radiated Measurement:

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1750 Wireless MU-MIMO Gigabit Ceiling Mount Access Point	
Brand Name	tp-link	
Test Model	EAP245	
Series Model	N/A	
Model Difference	N/A	
Product Description	Operation Frequency	UNII-1:5150MHz ~ 5250MHz UNII-3:5725MHz ~ 5850MHz
	Modulation Technology	OFDM
	Bit Rate of Transmitter	1300 Mbps
	Output Power (Max.)for UNII-1_ Non-Beamforming	802.11a: 24.75 dBm 802.11n(20M): 24.30 dBm 802.11n(40M): 24.80 dBm 802.11ac(20M): 24.50 dBm 802.11ac(40M): 25.18 dBm 802.11ac(80M): 21.23 dBm
	Output Power (Max.)for UNII-3_ Non-Beamforming	802.11a: 24.37 dBm 802.11n(20M): 24.31 dBm 802.11n(40M): 24.65 dBm 802.11ac(20M): 24.92 dBm 802.11ac(40M): 24.87 dBm 802.11ac(80M): 25.01 dBm
	Output Power (Max.)for UNII-1_ Beamforming	802.11n(20M): 24.18 dBm 802.11n(40M): 24.62 dBm 802.11ac(20M): 24.37 dBm 802.11ac(40M): 25.09 dBm 802.11ac(80M): 21.14 dBm
	Output Power (Max.)for UNII-3_ Beamforming	802.11n(20M): 24.17 dBm 802.11n(40M): 24.50 dBm 802.11ac(20M): 24.64 dBm 802.11ac(40M): 24.64 dBm 802.11ac(80M): 24.72 dBm
Power Source	EUT: 1# Supplied from POE adapter. 2# Supplied from POE switch. EUT (POE Adapter): AC Mains.	
Power Rating	EUT: 1# DC 48V/0.5A 2# 36~57V, 0.36A EUT(POE Adapter): 100-240V~	

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- Channel List:

802.11a 802.11n(20 MHz) 802.11ac(20 MHz)		802.11n(40 MHz) 802.11ac(40 MHz)		802.11ac(80 MHz)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

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

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1		N/A	PIFA	N/A	3.97
2		N/A	PIFA	N/A	3.89
3		N/A	PIFA	N/A	3.92

Note:

- This EUT supports MIMO 3X3, any transmit signals are correlated with each other, so Directional gain = $10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N]$ dBi, that is Directional gain = $10\log[(10^{3.97/20} + 10^{3.89/20} + 10^{3.92/20})^2 / 3]$ dBi = 8.70; So, the UNII-1, UNII-3 output power limit is $30 - 8.70 + 6 = 27.30$. The UNII-1 power density limit is $17 - 8.70 + 6 = 14.30$, the UNII-3 power density limit is $30 - 8.70 + 6 = 27.30$.
- Beamforming gain: 4.77dBi, so Directional gain = $4.77 + 3.97 = 8.74$ dBi. Then, the UNII-1, UNII-3 output power limit is $30 - 8.74 + 6 = 27.26$. The UNII-1 power density limit is $17 - 8.74 + 6 = 14.26$, the UNII-3 power density limit is $30 - 8.74 + 6 = 27.26$.

4. The worst case for 3TX as follow:

Operating Mode / TX Mode	3TX
802.11a	V (ANT 1+ ANT 2+ANT 3)
802.11n (20 MHz)	V (ANT 1+ ANT 2+ANT 3)
802.11n (40 MHz)	V (ANT 1+ ANT 2+ANT 3)
802.11ac (20 MHz)	V (ANT 1+ ANT 2+ANT 3)
802.11ac (40 MHz)	V (ANT 1+ ANT 2+ANT 3)
802.11ac (80 MHz)	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 / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)
Mode 13	TX Mode

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

For Conducted Test	
Final Test Mode	Description
Mode 13	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

Note:

- (1) For radiated 30 MHz to 1000 MHz test, the 802.11a mode is found to be the worst case and recorded.
- (2) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

Non-Beamforming

UNII-1			
Test Software Version	QRCT		
Frequency (MHz)	5180	5200	5240
A Mode	20	20	20
N20 Mode	20	21	21
AC20 Mode	20	20	20
Frequency (MHz)	5190	5230	
N40 Mode	18	20	
AC40 Mode	18	20	
Frequency (MHz)	5210		
AC80 Mode	17		

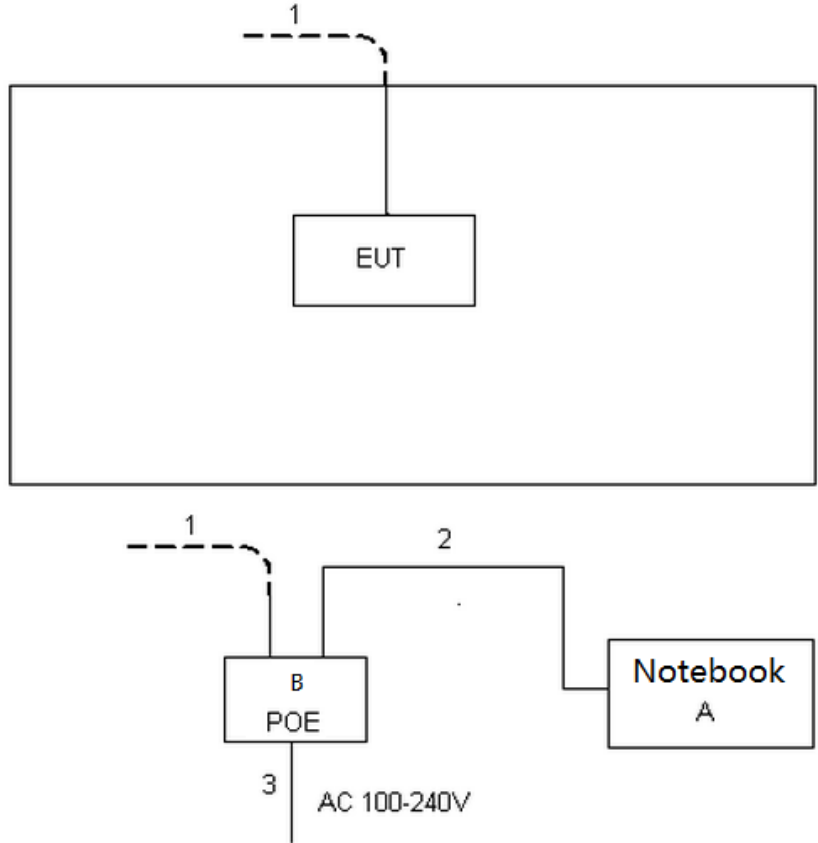
UNII-3			
Test Software Version	QRCT		
Frequency (MHz)	5745	5785	5825
A Mode	20	20	20
N20 Mode	21	21	21
AC20 Mode	21	21	21
Frequency (MHz)	5755	5795	
N40 Mode	20	20	
AC40 Mode	20	20	
Frequency (MHz)	5775		
AC80 Mode	21		

Beamforming

UNII-1			
Test Software Version	QRCT		
Frequency (MHz)	5180	5200	5240
N20 Mode	20	21	21
AC20 Mode	20	20	20
Frequency (MHz)	5190	5230	/
N40 Mode	18	20	/
AC40 Mode	18	20	/
Frequency (MHz)	5210	/	/
AC80 Mode	17	/	/

UNII-3			
Test Software Version	QRCT		
Frequency (MHz)	5745	5785	5825
N20 Mode	21	21	21
AC20 Mode	21	21	21
Frequency (MHz)	5755	5795	/
N40 Mode	20	20	/
AC40 Mode	20	20	/
Frequency (MHz)	5775	/	/
AC80 Mode	21	/	/

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
A	Notebook	Lenovo	G410	N/A	N/A
B	POE	TP-LINK	TL-SG1008P	DOC	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45 Cable
2	NO	NO	1.5m	RJ45 Cable
3	NO	NO	1.8m	AC Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

- (1) The tighter limit applies at the band edges.
- (2) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

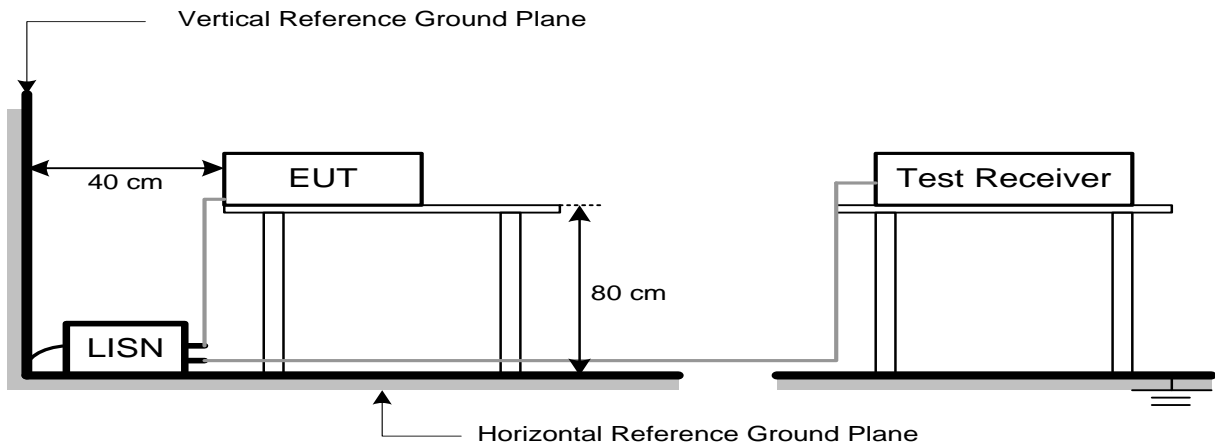
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

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

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Appendix A.

Remark:

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

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

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

Note:

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

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

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

4.2.2 TEST PROCEDURE

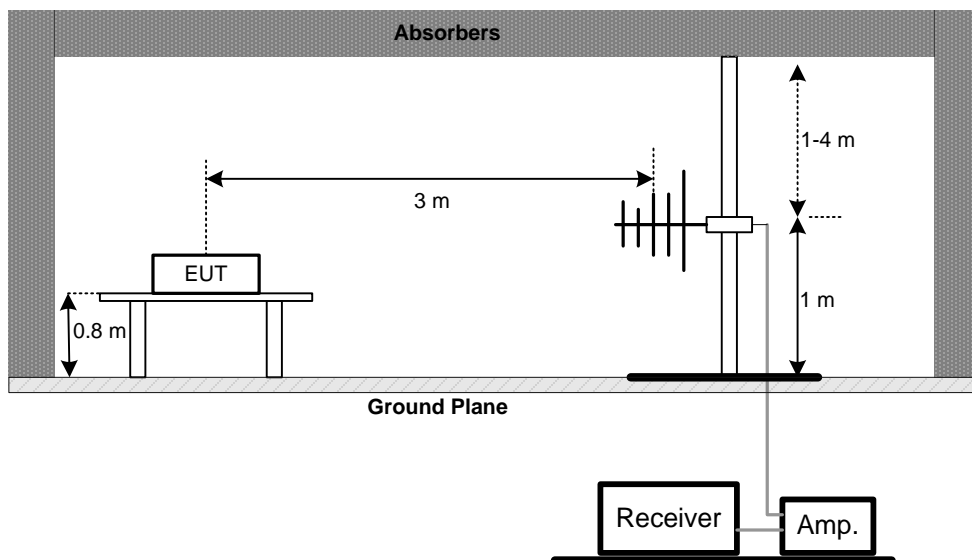
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

4.2.3 DEVIATION FROM TEST STANDARD

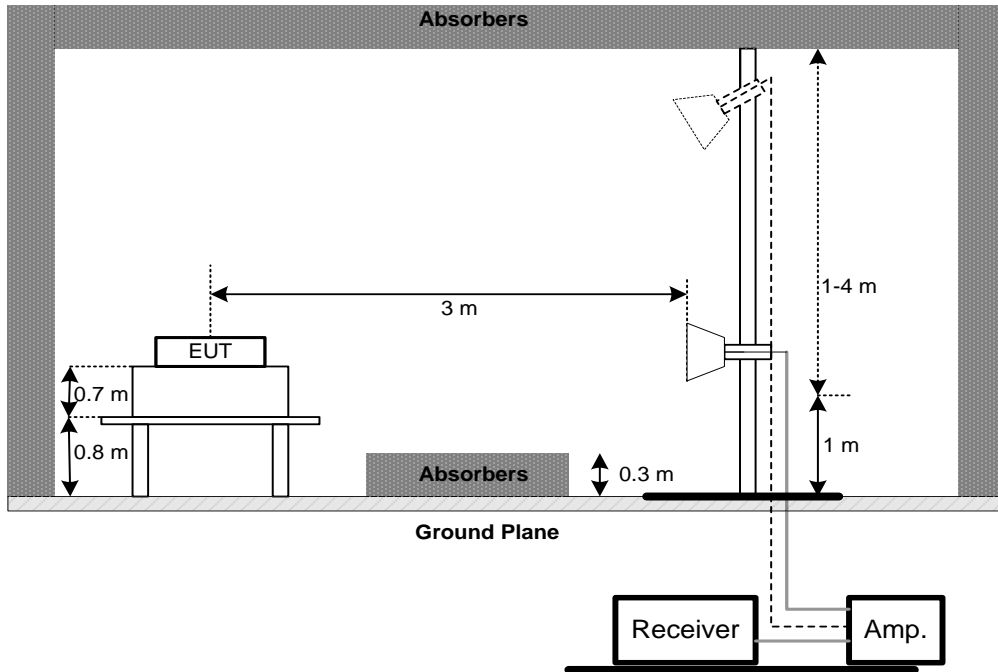
No deviation

4.2.4 TEST SETUP

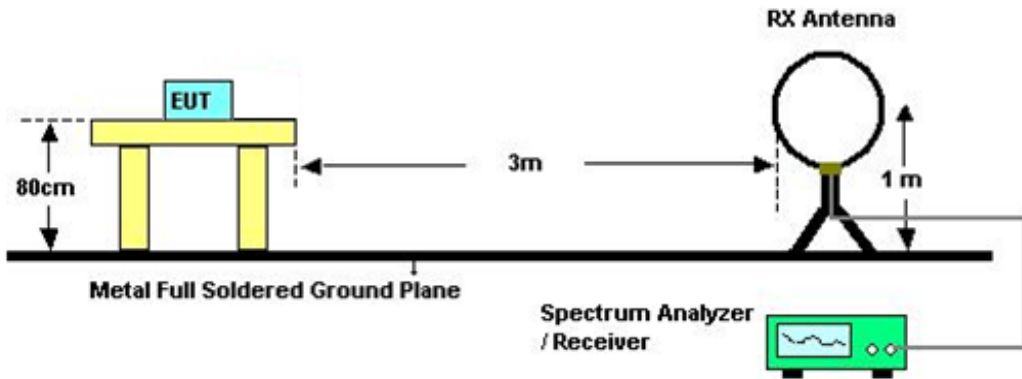
(A)Radiated Emission Test Set-Up Frequency 30 MHz-1000 MHz



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



(C) Radiated emissions below 30 MHz



4.2.5 EUT OPERATING CONDITIONS

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

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9 kHz TO 30 MHz)

Please refer to the Appendix B

Remark:

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

4.2.8 TEST RESULTS (30 MHz TO 1000 MHz)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Appendix D.

Remark:

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

5. SPECTRUM BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 TEST PROCEDURE

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

b.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26 dB Bandwidth
RBW	300 kHz(Bandwidth 20 MHz) 1 MHz(Bandwidth 40 MHz and 80 MHz)
VBW	1 MHz(Bandwidth 20 MHz) 3 MHz(Bandwidth 40 MHz and 80 MHz)
Span Frequency	6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 EUT TEST CONDITIONS

Temperature: 27°C Relative Humidity: 48% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Appendix E.

6. MAXIMUM OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Maximum Output Power	Fixed:1 Watt (30 dBm)	5150-5250	PASS
	Mobile and portable: 250 mW (24 dBm)	5150-5250	PASS
	1 Watt (30 dBm)	5725-5850	PASS

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

6.1.1 TEST PROCEDURE

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

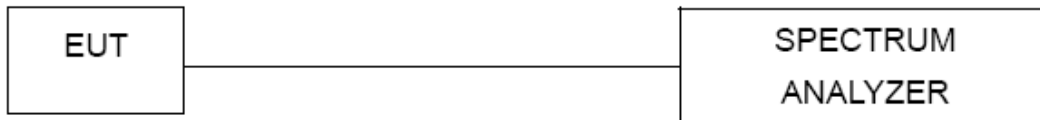
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz.
VBW	≥ 3 MHz.
Sweep points	≥ 2 x span / RBW
Detector	RMS
Trace	Trace average at least 100 traces in power averaging(rms) mode.
Sweep Time	auto

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

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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

6.1.5 EUT TEST CONDITIONS

Temperature: 27°C Relative Humidity: 48% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Appendix F.

7. POWER SPECTRAL DENSITY TEST

7.1 APPLIED PROCEDURES / LIMIT

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

7.1.1 TEST PROCEDURE

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

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

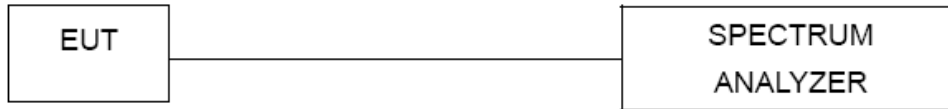
Note:

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

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

7.1.5 EUT TEST CONDITIONS

Temperature: 27°C Relative Humidity: 48% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Appendix H.

8. FREQUENCY STABILITY MEASUREMENT

8.1 APPLIED PROCEDURES / LIMIT

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

8.1.1 TEST PROCEDURE

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

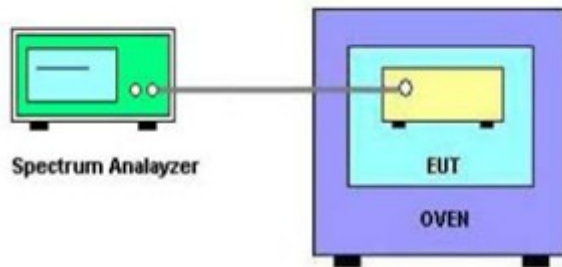
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

- c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- d. User manual temperature is 0°C~50°C.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

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

8.1.5 EUT TEST CONDITIONS

Temperature: 27°C Relative Humidity: 48% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Appendix I.

9. MEASUREMENT INSTRUMENTS LIST

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

Radiated Emission Measurement-9 kHz TO 30 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Feb. 07, 2019
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019
3	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement-30 MHz TO 1000 MHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019
2	Amplifier	HP	8447D	2944A09673	Aug. 11, 2019
3	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	May 25, 2019
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement - Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 30, 2019
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 11, 2019
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	mitron	B10-01-01-12M	18072744	Jul. 30, 2019
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

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

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

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

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

10. EUT TEST PHOTOS

Conducted Measurement Photos



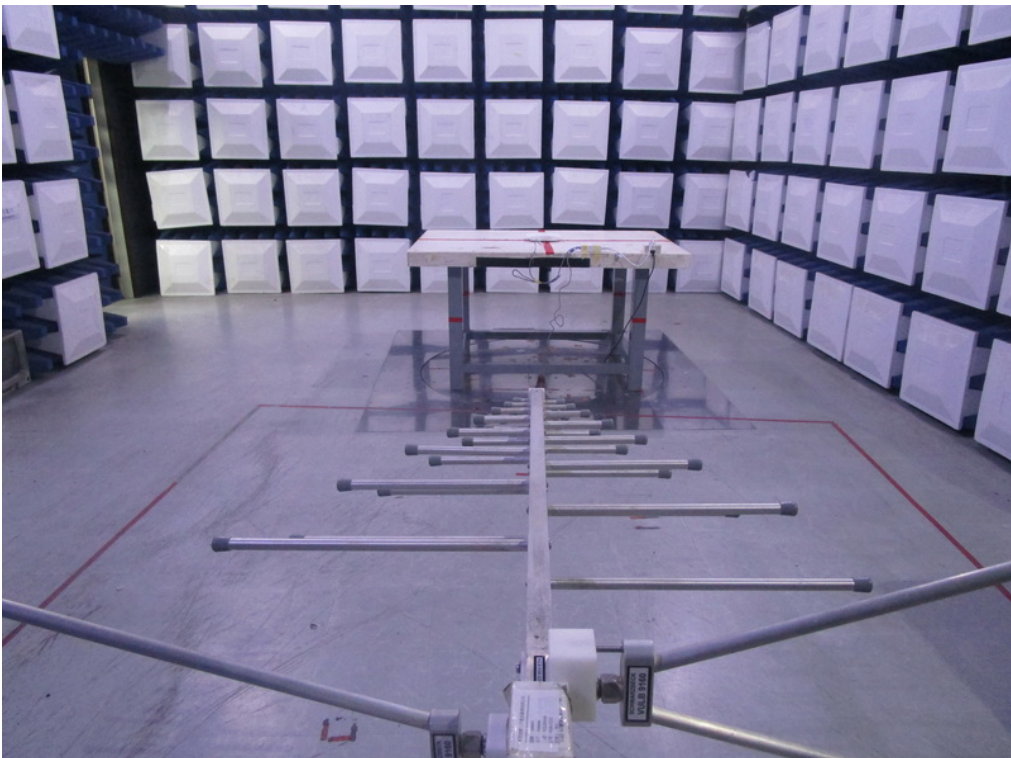
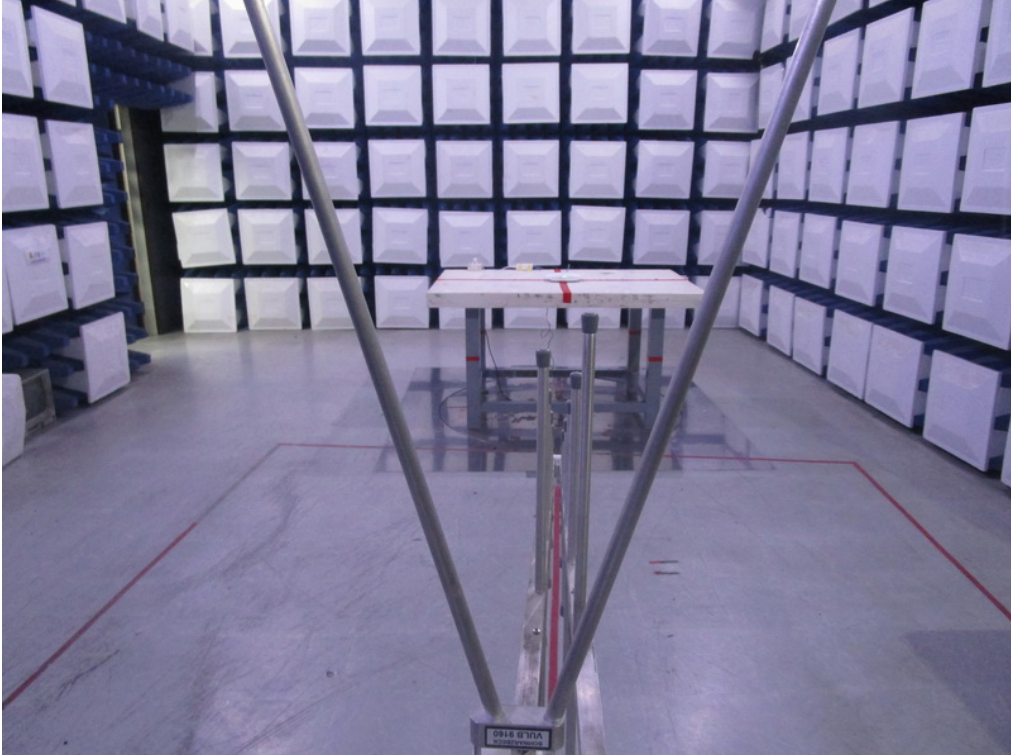
Radiated Measurement Photos

9 kHz to 30 MHz



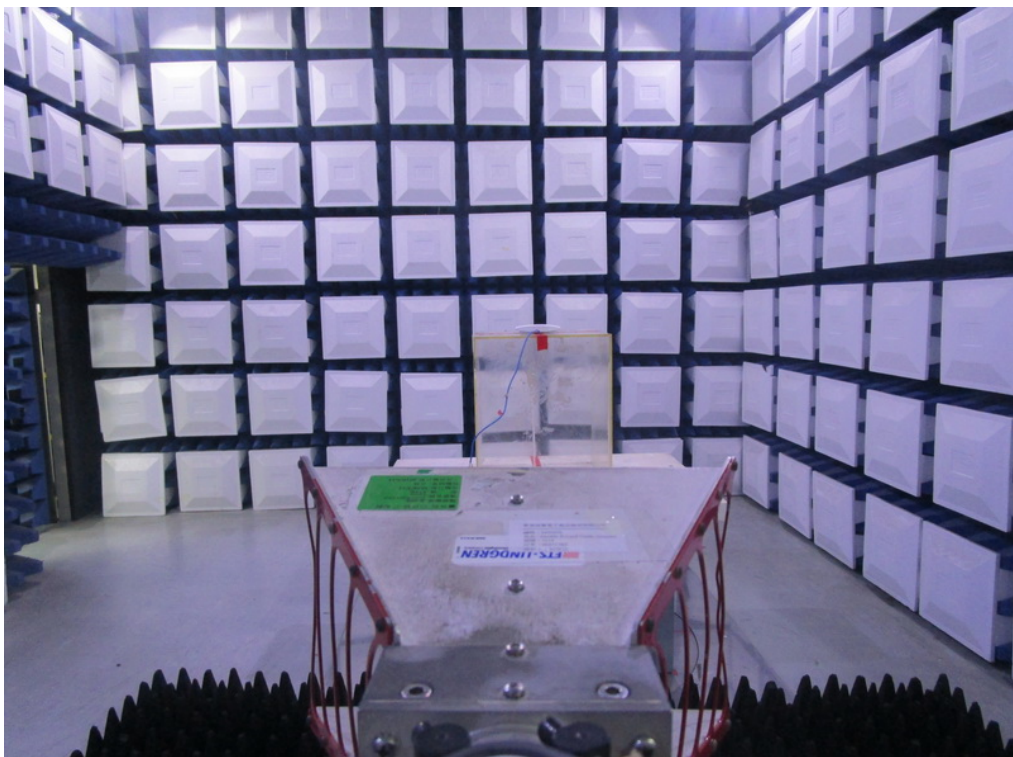
Radiated Measurement Photos

30 MHz to 1000 MHz



Radiated Measurement Photos

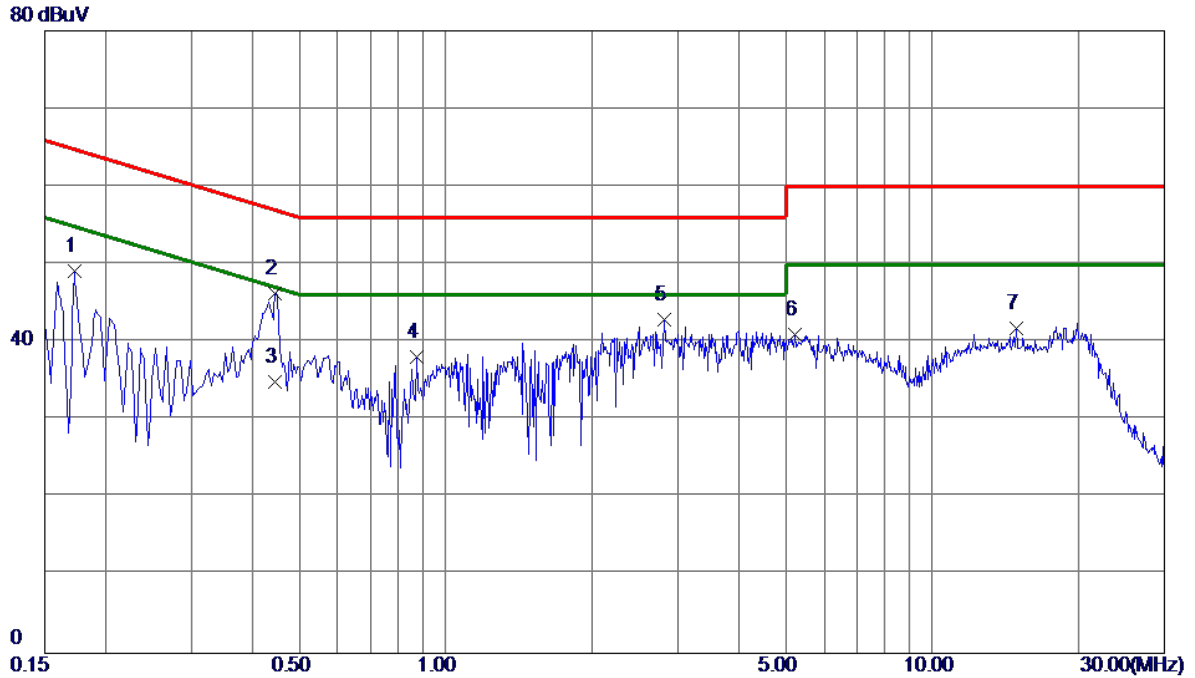
Above 1000 MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode: TX Mode

Line

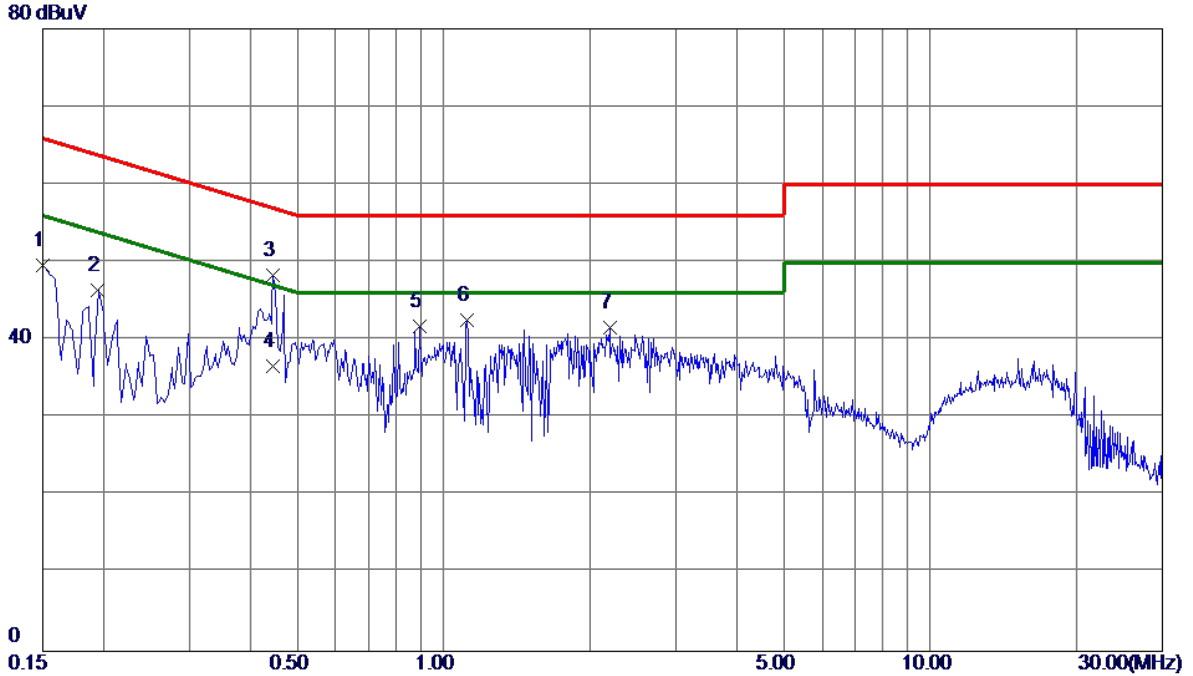


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1725	39.28	9.82	49.10	64.84	-15.74	Peak	
2 *	0.4470	36.46	9.80	46.26	56.93	-10.67	Peak	
3	0.4470	25.10	9.80	34.90	46.93	-12.03	AVG	
4	0.8700	28.20	9.91	38.11	56.00	-17.89	Peak	
5	2.8095	32.89	10.04	42.93	56.00	-13.07	Peak	
6	5.2350	30.69	10.21	40.90	60.00	-19.10	Peak	
7	14.8785	31.09	10.74	41.83	60.00	-18.17	Peak	

Note: The test result has included the cable loss.

Test Mode: TX Mode

Neutral



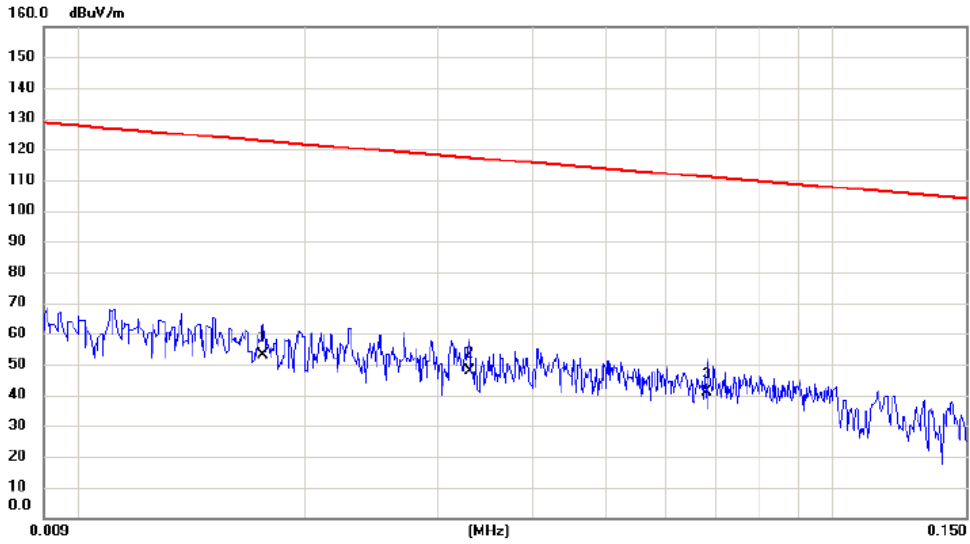
No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	39.66	9.91	49.57	66.00	-16.43	Peak	
2	0.1949	36.52	9.91	46.43	63.83	-17.40	Peak	
3 *	0.4470	38.39	9.95	48.34	56.93	-8.59	Peak	
4	0.4470	26.69	9.95	36.64	46.93	-10.29	AVG	
5	0.8925	31.68	10.09	41.77	56.00	-14.23	Peak	
6	1.1174	32.36	10.13	42.49	56.00	-13.51	Peak	
7	2.1929	31.40	10.20	41.60	56.00	-14.40	Peak	

Note: The test result has included the cable loss.

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

Test Mode: TX Mode

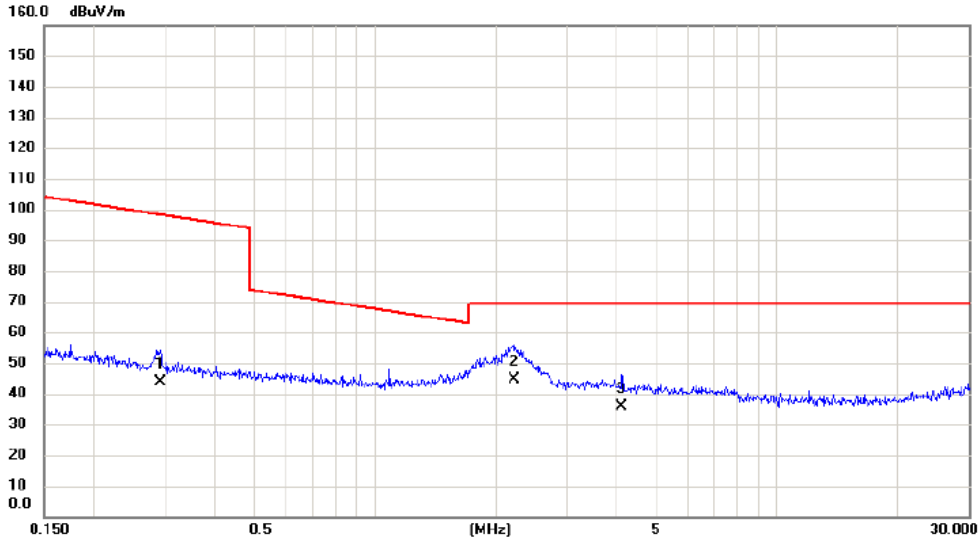
Ant 0°



No. Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.0176	32.50	20.36	52.86	122.69	-69.83	AVG	
2 *	0.0330	28.11	19.80	47.91	117.23	-69.32	AVG	
3	0.0682	21.70	19.17	40.87	110.93	-70.06	AVG	

Test Mode: TX Mode

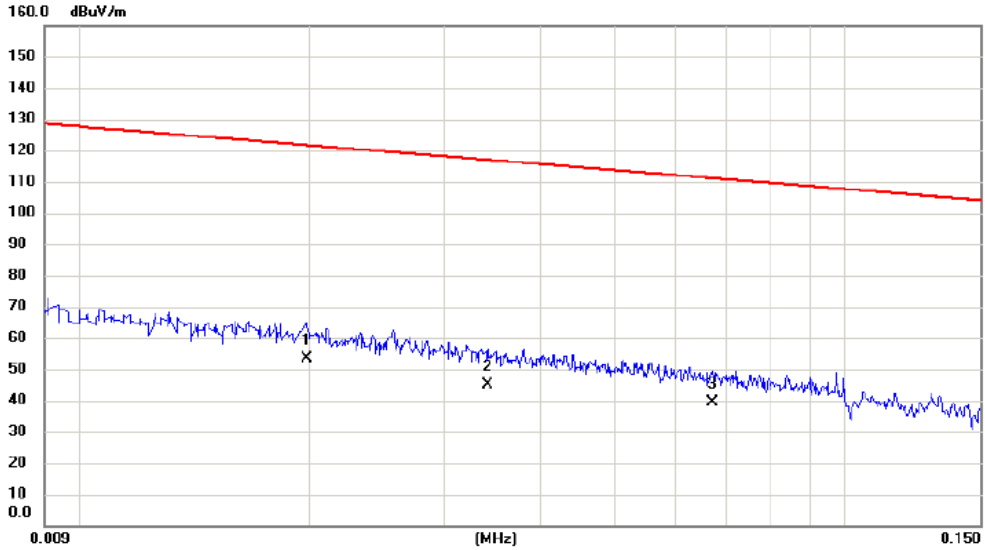
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2924	26.80	17.04	43.84	98.29	-54.45	AVG	
2	*	2.2132	27.50	16.98	44.48	69.54	-25.06	QP	
3		4.1137	20.30	15.68	35.98	69.54	-33.56	QP	

Test Mode: TX Mode

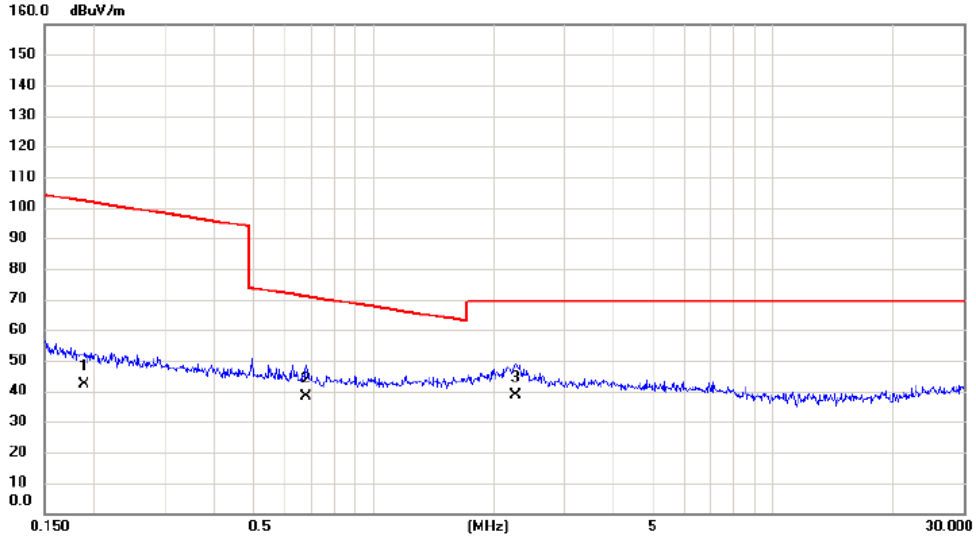
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0198	33.50	20.05	53.55	121.67	-68.12	AVG	
2		0.0342	25.20	19.78	44.98	116.92	-71.94	AVG	
3		0.0670	20.10	19.19	39.29	111.08	-71.79	AVG	

Test Mode: TX Mode

Ant 90°

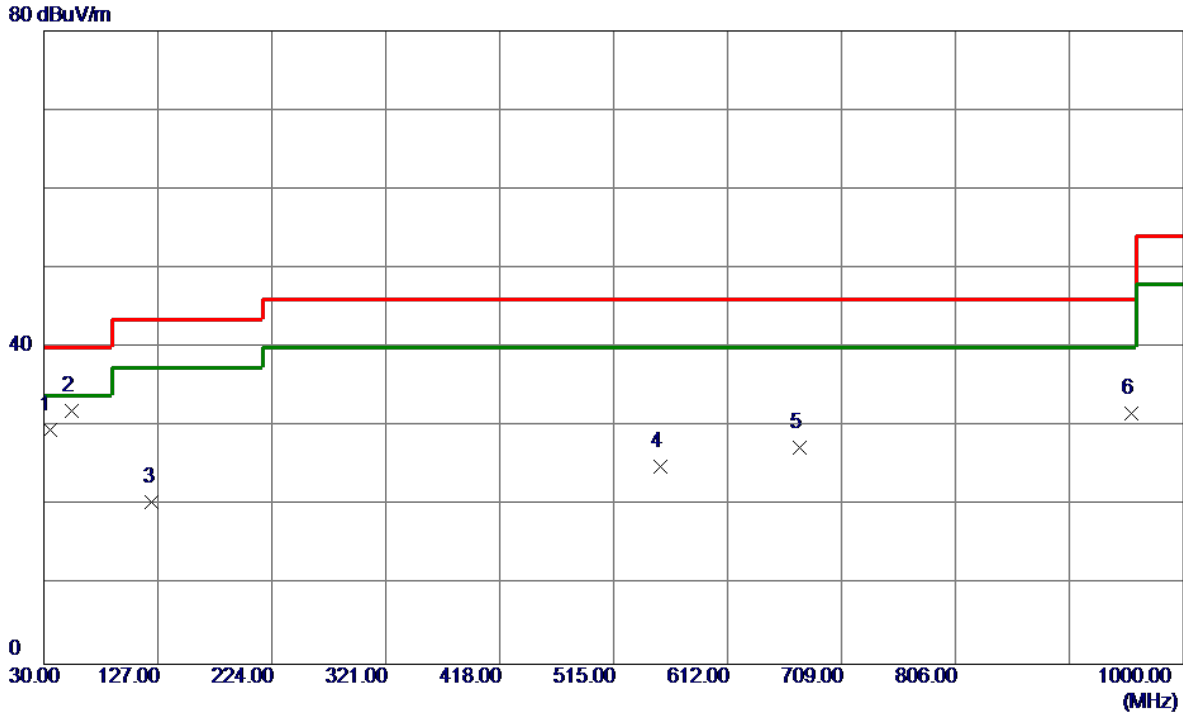


No. Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	0.1884	25.20	17.17	42.37	102.10	-59.73	AVG	
2	0.6790	21.30	16.91	38.21	70.97	-32.76	QP	
3 *	2.2726	21.50	16.96	38.46	69.54	-31.08	QP	

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

Test Mode: UNII-1/TX A Mode 5180 MHz

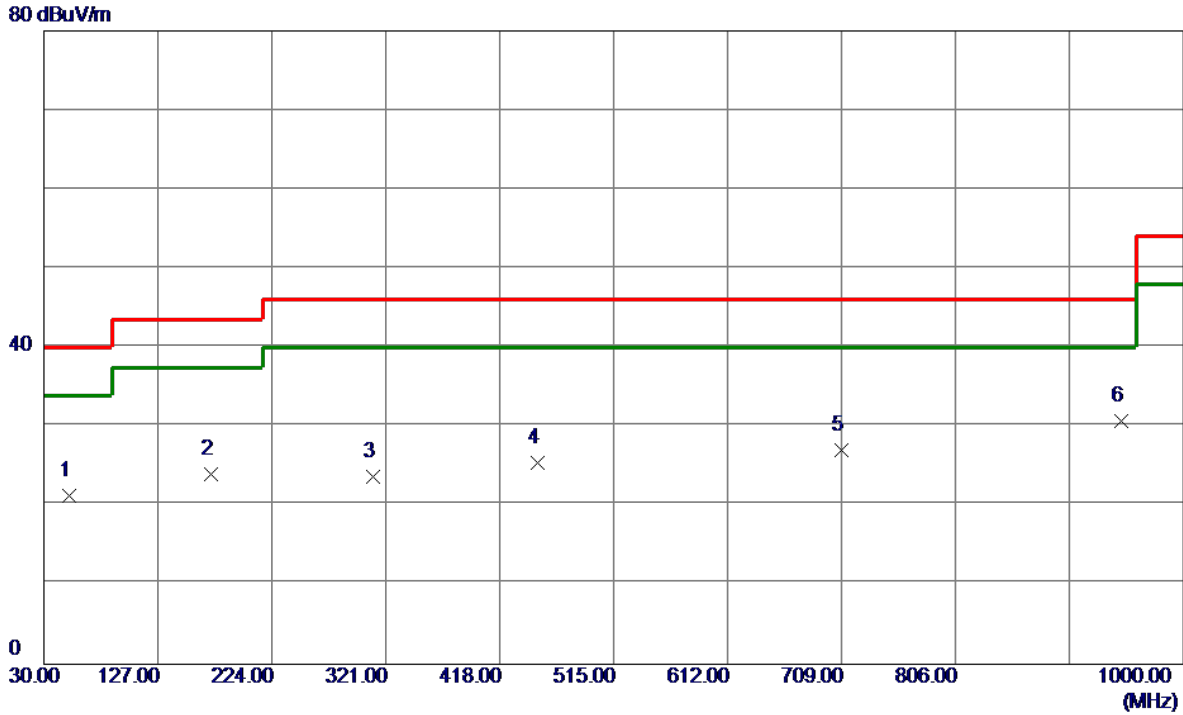
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	34.8500	44.56	-14.89	29.67	40.00	-10.33	Peak	
2 *	53.2800	46.87	-14.92	31.95	40.00	-8.05	Peak	
3	122.1500	34.83	-14.41	20.42	43.50	-23.08	Peak	
4	554.7700	30.53	-5.54	24.99	46.00	-21.01	Peak	
5	673.1100	31.36	-4.05	27.31	46.00	-18.69	Peak	
6	955.3800	30.47	1.28	31.75	46.00	-14.25	Peak	

Test Mode: UNII-1/TX A Mode 5180 MHz

Horizontal

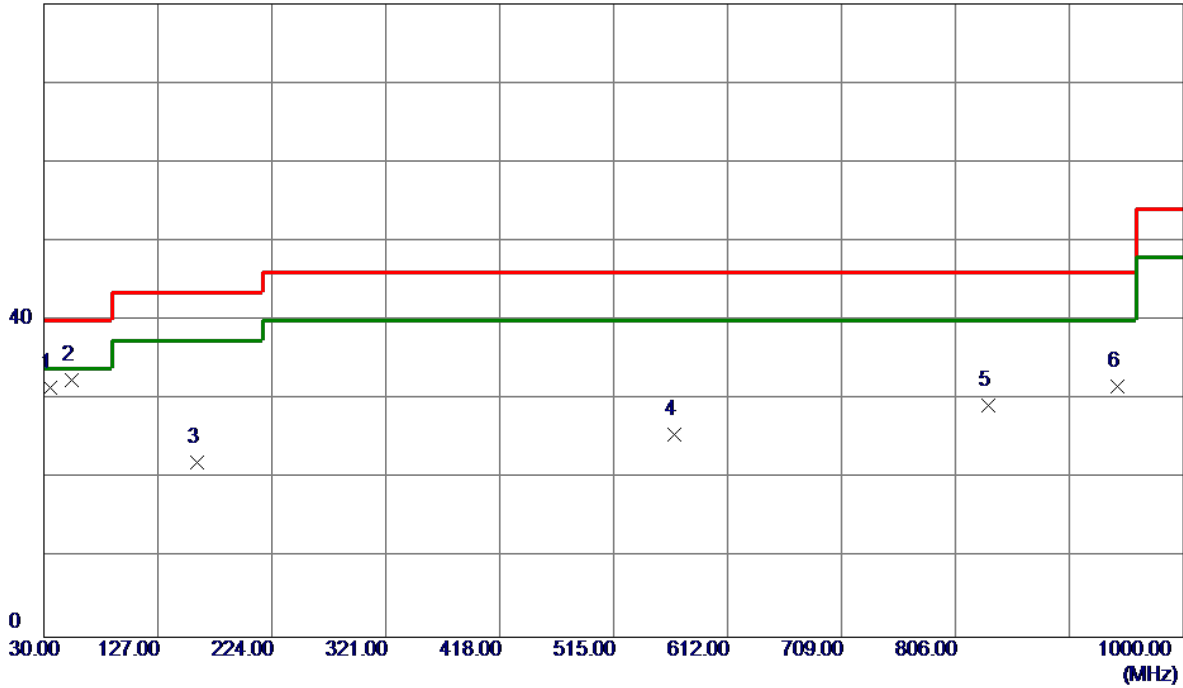


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	51.3400	36.09	-14.85	21.24	40.00	-18.76	Peak	
2	172.5900	35.64	-11.62	24.02	43.50	-19.48	Peak	
3	310.3299	34.22	-10.52	23.70	46.00	-22.30	Peak	
4	450.0100	32.81	-7.41	25.40	46.00	-20.60	Peak	
5	709.0000	30.01	-2.98	27.03	46.00	-18.97	Peak	
6 *	947.6200	29.35	1.31	30.66	46.00	-15.34	Peak	

Test Mode: UNII-1/TX A Mode 5200 MHz

Vertical

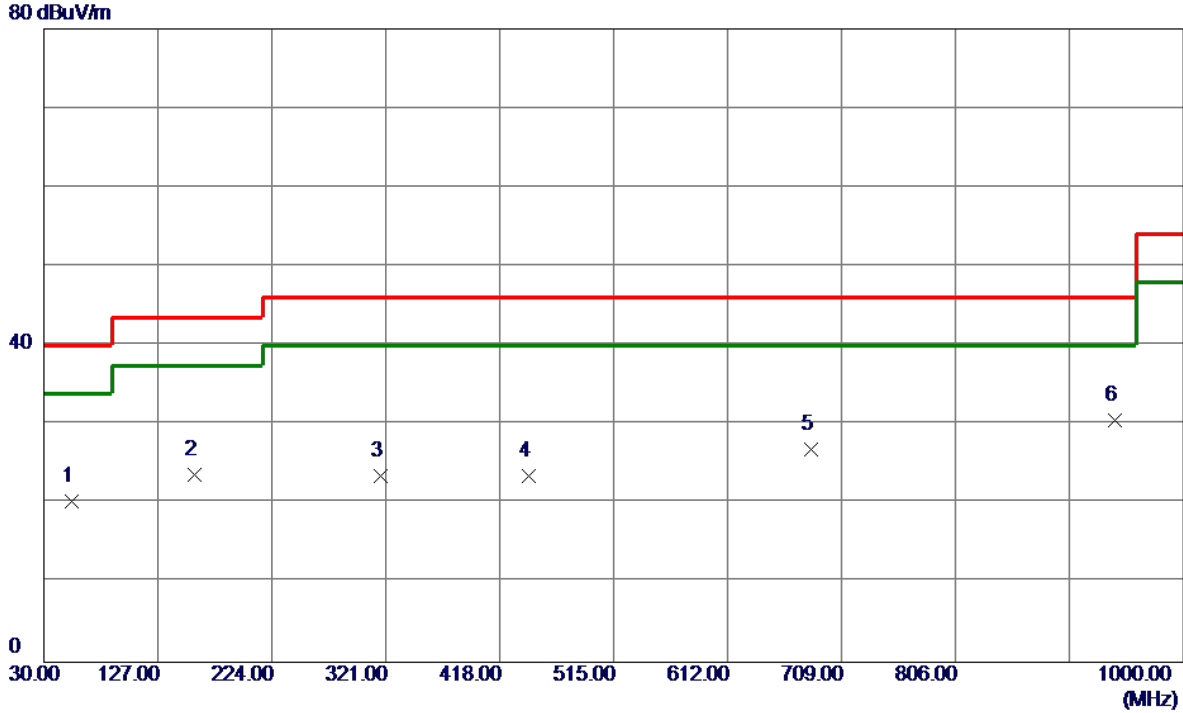
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	35.8200	46.55	-14.97	31.58	40.00	-8.42	Peak	
2 *	53.2800	47.42	-14.92	32.50	40.00	-7.50	Peak	
3	159.9800	32.64	-10.60	22.04	43.50	-21.46	Peak	
4	566.4099	31.32	-5.74	25.58	46.00	-20.42	Peak	
5	834.1300	30.84	-1.57	29.27	46.00	-16.73	Peak	
6	943.7400	30.58	1.16	31.74	46.00	-14.26	Peak	

Test Mode: UNII-1/TX A Mode 5200 MHz

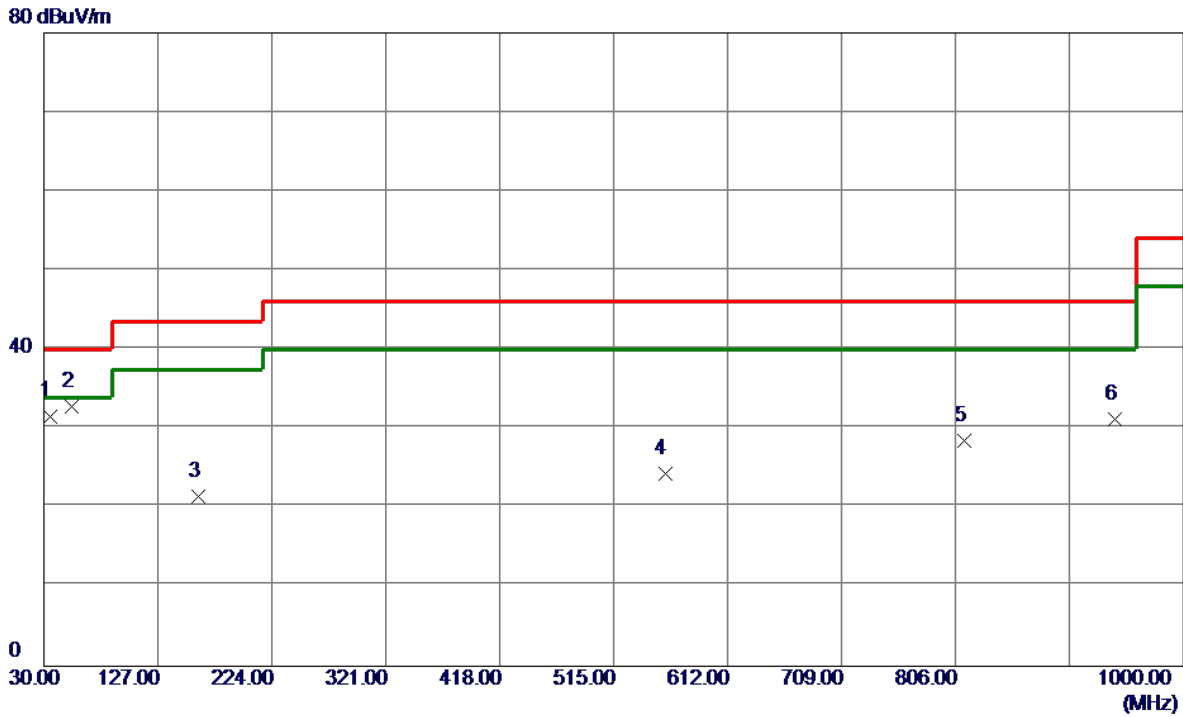
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	53.2800	35.27	-14.92	20.35	40.00	-19.65	Peak	
2	158.0399	34.40	-10.77	23.63	43.50	-19.87	Peak	
3	317.1200	34.08	-10.61	23.47	46.00	-22.53	Peak	
4	443.2200	31.14	-7.67	23.47	46.00	-22.53	Peak	
5	682.8100	30.43	-3.58	26.85	46.00	-19.15	Peak	
6 *	941.8000	29.55	1.08	30.63	46.00	-15.37	Peak	

Test Mode: UNII-1/TX A Mode 5240 MHz

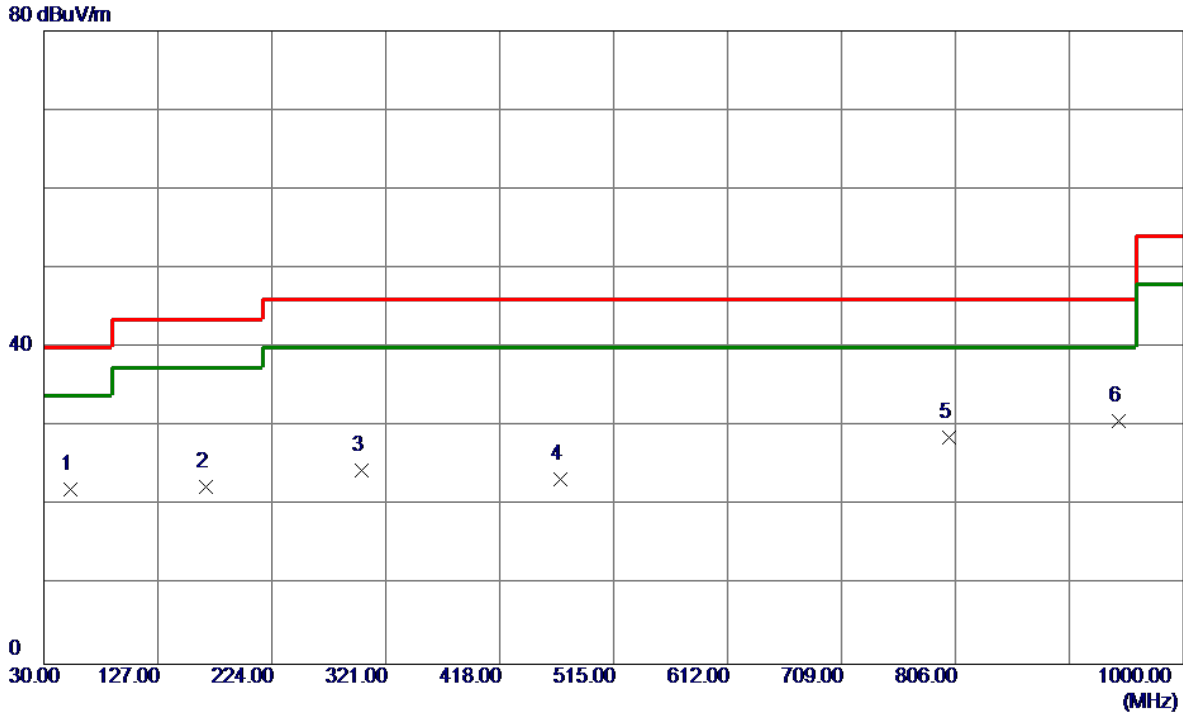
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	34.8500	46.49	-14.89	31.60	40.00	-8.40	Peak	
2 *	53.2800	47.68	-14.92	32.76	40.00	-7.24	Peak	
3	161.9200	32.13	-10.71	21.42	43.50	-22.08	Peak	
4	558.6500	29.87	-5.61	24.26	46.00	-21.74	Peak	
5	813.7600	29.78	-1.25	28.53	46.00	-17.47	Peak	
6	941.8000	30.09	1.08	31.17	46.00	-14.83	Peak	

Test Mode: UNII-1/TX A Mode 5240 MHz

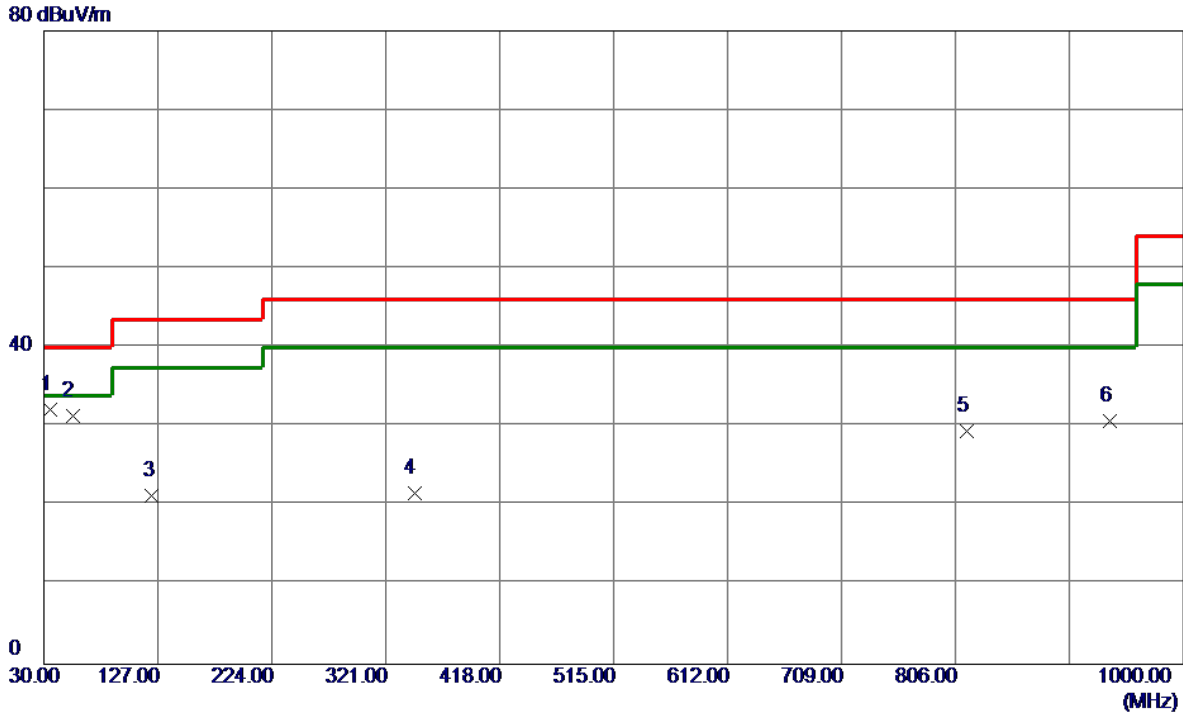
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	52.3100	37.00	-14.89	22.11	40.00	-17.89	Peak	
2	167.7400	33.46	-11.06	22.40	43.50	-21.10	Peak	
3	300.6300	34.83	-10.38	24.45	46.00	-21.55	Peak	
4	469.4100	31.24	-7.84	23.40	46.00	-22.60	Peak	
5	800.1800	29.71	-1.04	28.67	46.00	-17.33	Peak	
6 *	944.7100	29.52	1.20	30.72	46.00	-15.28	Peak	

Test Mode: UNII-3/TX A Mode 5745 MHz

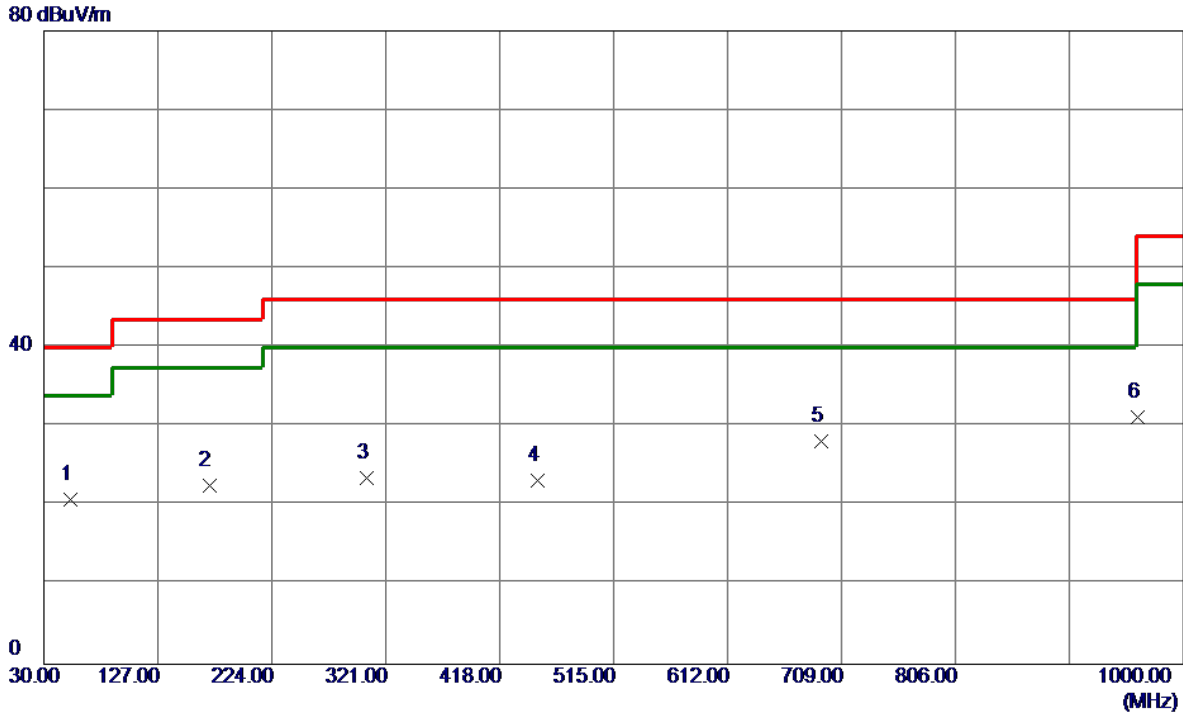
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	35.8200	47.13	-14.97	32.16	40.00	-7.84	Peak	
2	54.2500	46.38	-14.96	31.42	40.00	-8.58	Peak	
3	122.1500	35.69	-14.41	21.28	43.50	-22.22	Peak	
4	345.2500	32.66	-11.01	21.65	46.00	-24.35	Peak	
5	815.7000	30.69	-1.29	29.40	46.00	-16.60	Peak	
6	937.9200	29.84	0.92	30.76	46.00	-15.24	Peak	

Test Mode: UNII-3/TX A Mode 5745 MHz

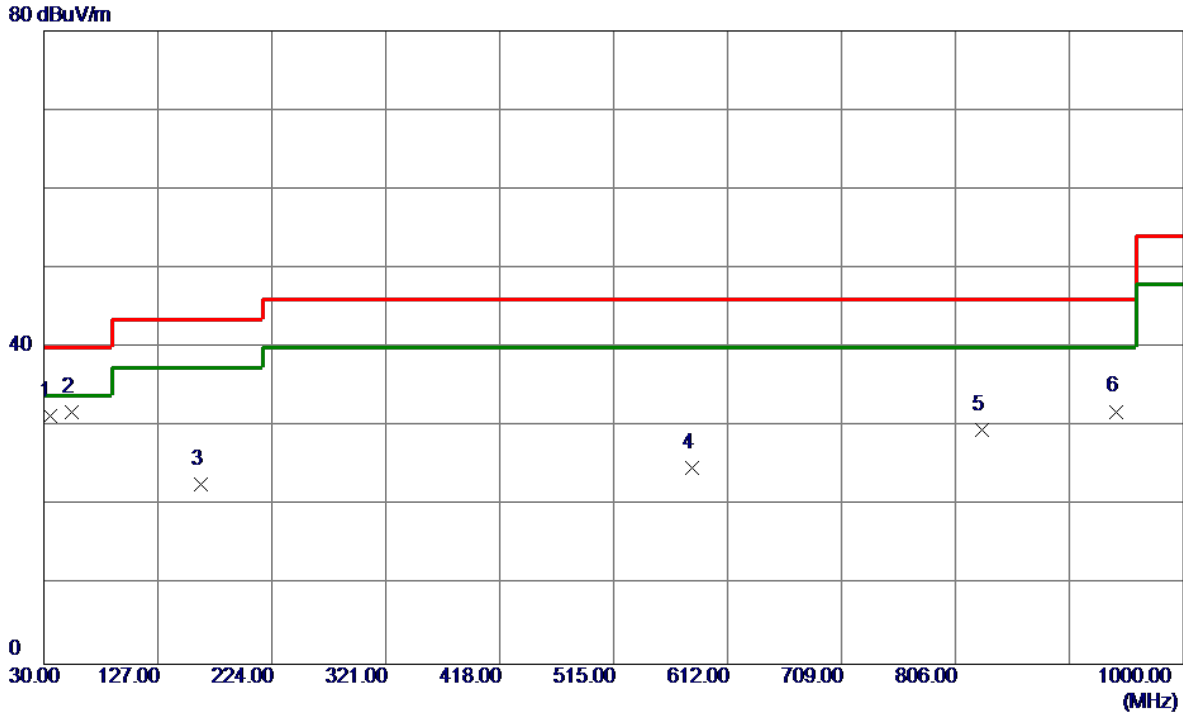
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	52.3100	35.75	-14.89	20.86	40.00	-19.14	Peak	
2	170.6500	33.89	-11.31	22.58	43.50	-20.92	Peak	
3	304.5100	33.91	-10.43	23.48	46.00	-22.52	Peak	
4	450.0100	30.61	-7.41	23.20	46.00	-22.80	Peak	
5 *	691.5400	31.37	-3.16	28.21	46.00	-17.79	Peak	
6	961.2000	30.13	1.14	31.27	54.00	-22.73	Peak	

Test Mode: UNII-3/TX A Mode 5785 MHz

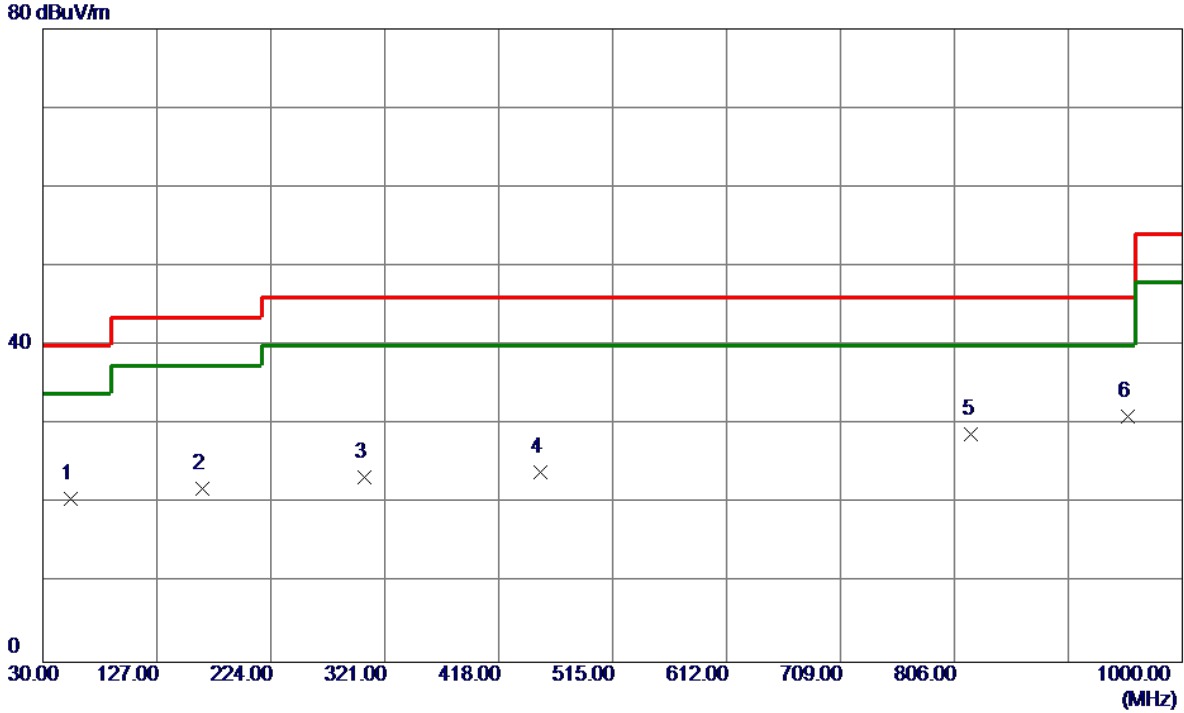
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	34.8500	46.24	-14.89	31.35	40.00	-8.65	Peak	
2 *	53.2800	46.82	-14.92	31.90	40.00	-8.10	Peak	
3	163.8600	33.56	-10.83	22.73	43.50	-20.77	Peak	
4	581.9300	30.74	-6.00	24.74	46.00	-21.26	Peak	
5	828.3100	31.14	-1.48	29.66	46.00	-16.34	Peak	
6	942.7700	30.80	1.12	31.92	46.00	-14.08	Peak	

Test Mode: UNII-3/TX A Mode 5785 MHz

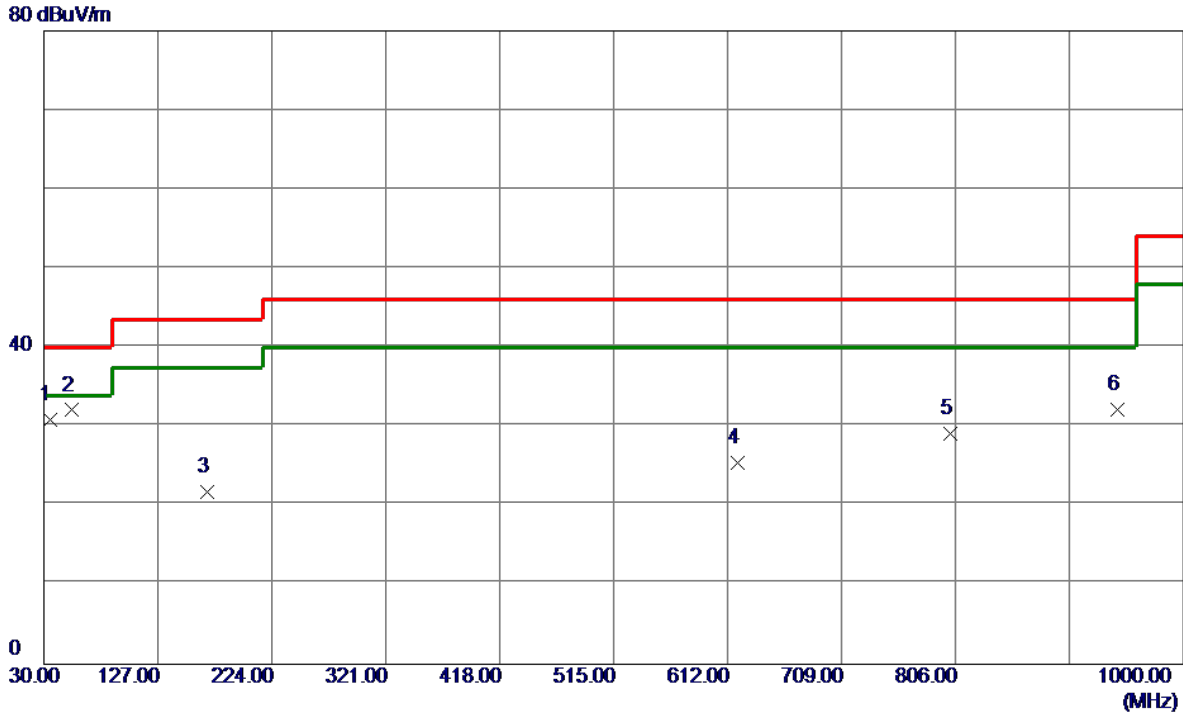
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	53.2800	35.49	-14.92	20.57	40.00	-19.43	Peak	
2	165.8000	32.85	-10.95	21.90	43.50	-21.60	Peak	
3	303.5400	33.72	-10.42	23.30	46.00	-22.70	Peak	
4	453.8900	31.56	-7.49	24.07	46.00	-21.93	Peak	
5	820.5500	30.11	-1.36	28.75	46.00	-17.25	Peak	
6 *	953.4400	29.73	1.33	31.06	46.00	-14.94	Peak	

Test Mode: UNII-3/TX A Mode 5825 MHz

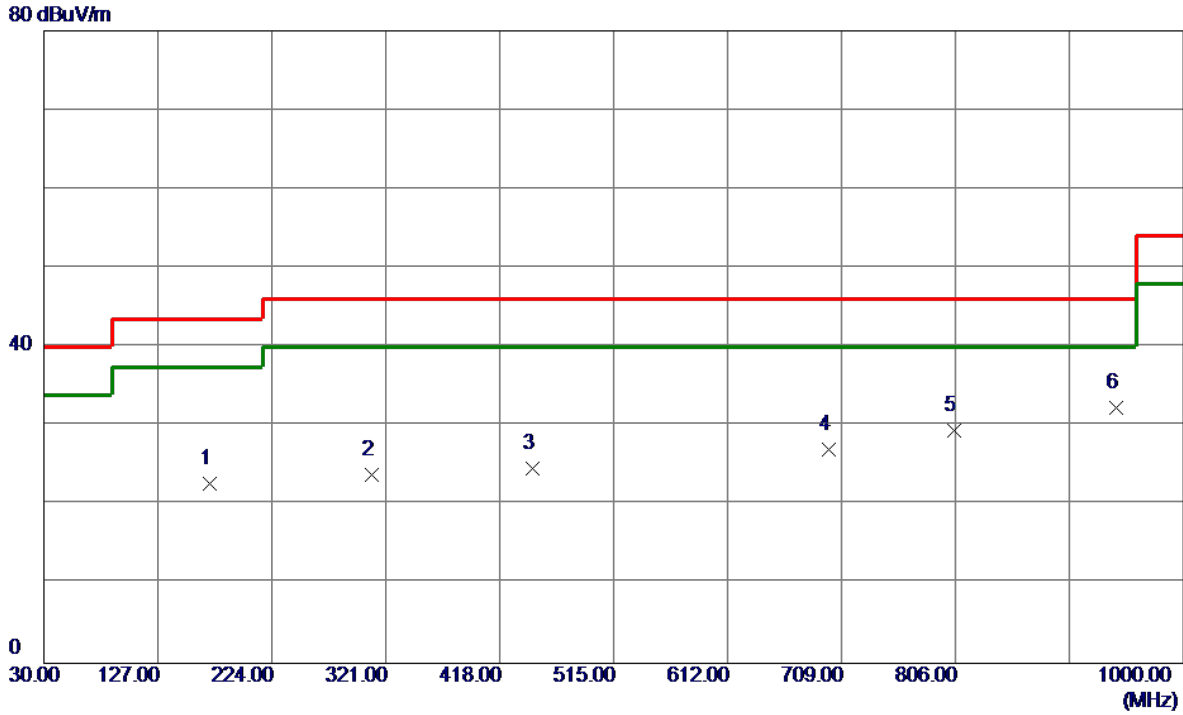
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	34.8500	45.82	-14.89	30.93	40.00	-9.07	Peak	
2 *	53.2800	47.00	-14.92	32.08	40.00	-7.92	Peak	
3	168.7100	32.91	-11.12	21.79	43.50	-21.71	Peak	
4	620.7300	31.30	-5.83	25.47	46.00	-20.53	Peak	
5	802.1200	30.21	-1.07	29.14	46.00	-16.86	Peak	
6	943.7400	30.97	1.16	32.13	46.00	-13.87	Peak	

Test Mode: UNII-3/TX A Mode 5825 MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	171.6200	34.22	-11.46	22.76	43.50	-20.74	Peak	
2	309.3599	34.32	-10.50	23.82	46.00	-22.18	Peak	
3	446.1300	32.20	-7.56	24.64	46.00	-21.36	Peak	
4	698.3300	29.88	-2.83	27.05	46.00	-18.95	Peak	
5	805.0300	30.62	-1.12	29.50	46.00	-16.50	Peak	
6 *	942.7700	31.14	1.12	32.26	46.00	-13.74	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000 MHZ)

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

Vertical

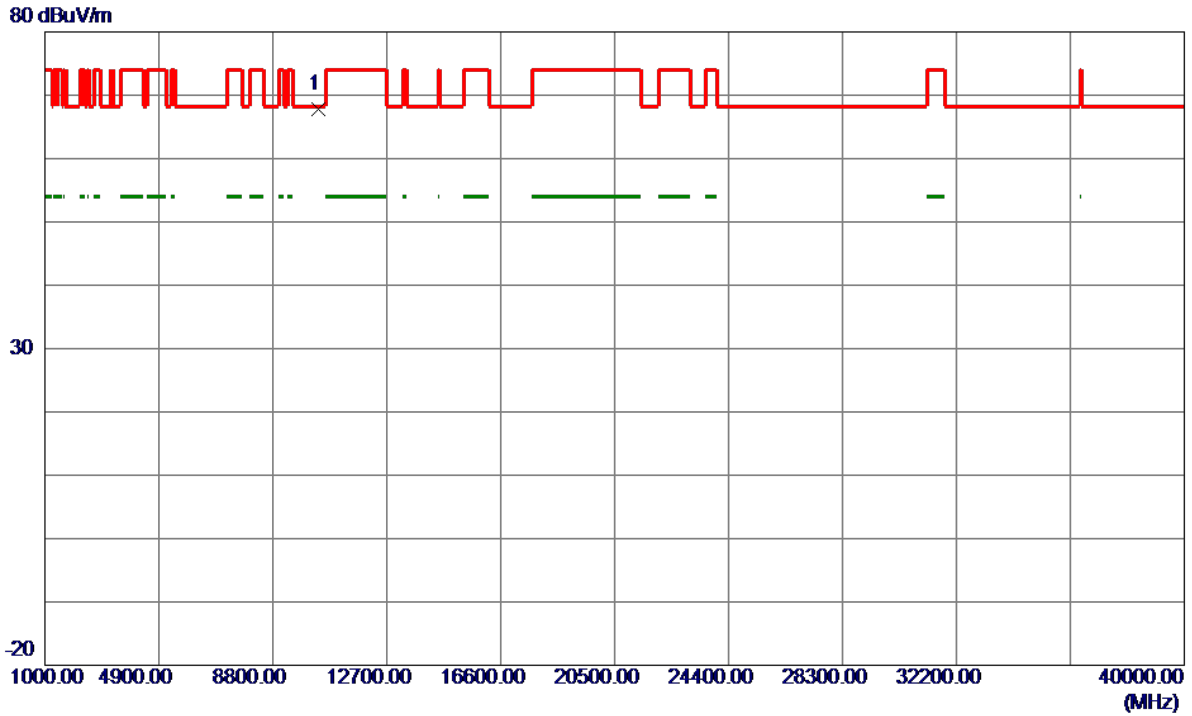
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	47.01	16.65	63.66	74.00	-10.34	Peak	
2	5150.0000	36.12	16.65	52.77	54.00	-1.23	AVG	
3	5179.3000	85.27	16.73	102.00	999.00	-897.00	AVG	No Limit
4 *	5184.0000	93.08	16.74	109.82	68.30	41.52	Peak	No Limit

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

Vertical

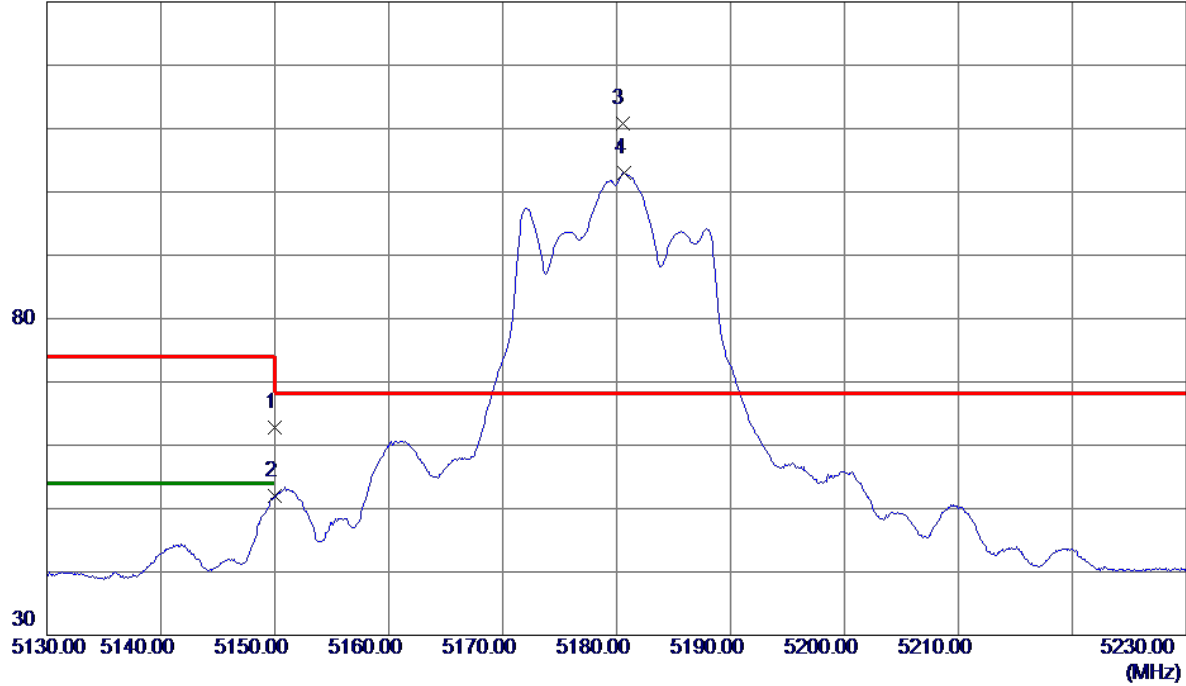


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10364.4500	47.45	20.28	67.73	68.30	-0.57	Peak	

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

Horizontal

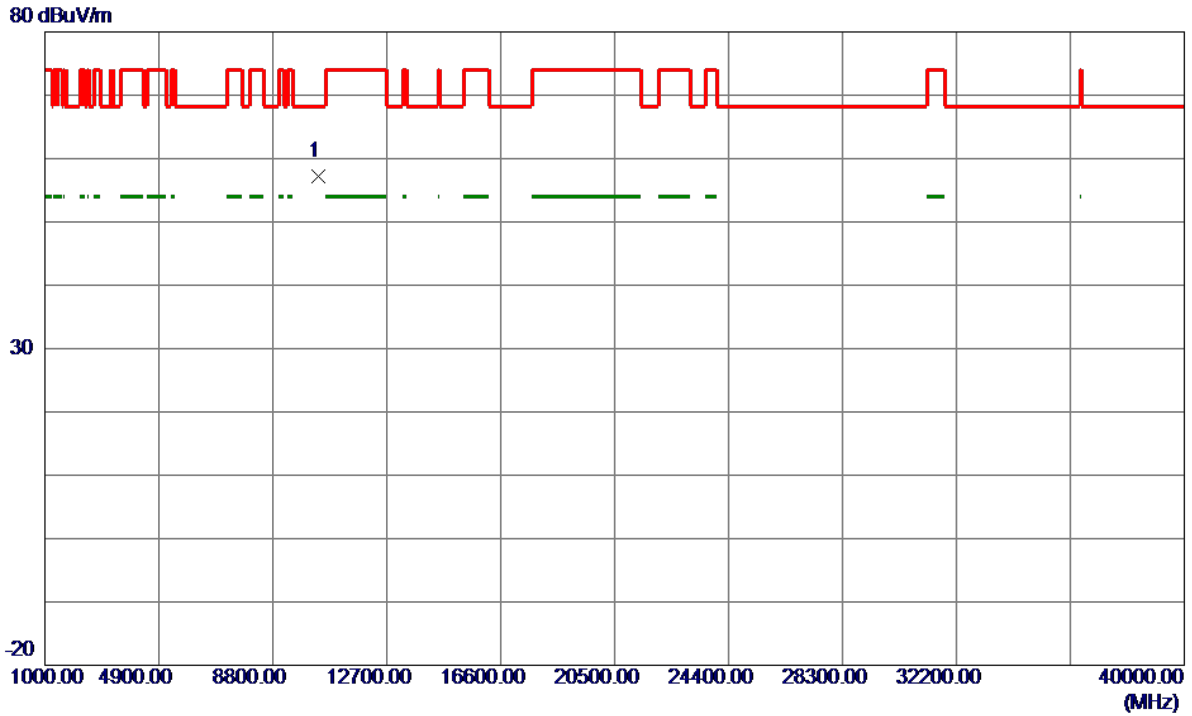
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	46.10	16.65	62.75	74.00	-11.25	Peak	
2	5150.0000	35.36	16.65	52.01	54.00	-1.99	AVG	
3 *	5180.5000	94.16	16.73	110.89	68.30	42.59	Peak	No Limit
4	5180.7000	86.21	16.73	102.94	999.00	-896.06	AVG	No Limit

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

Horizontal

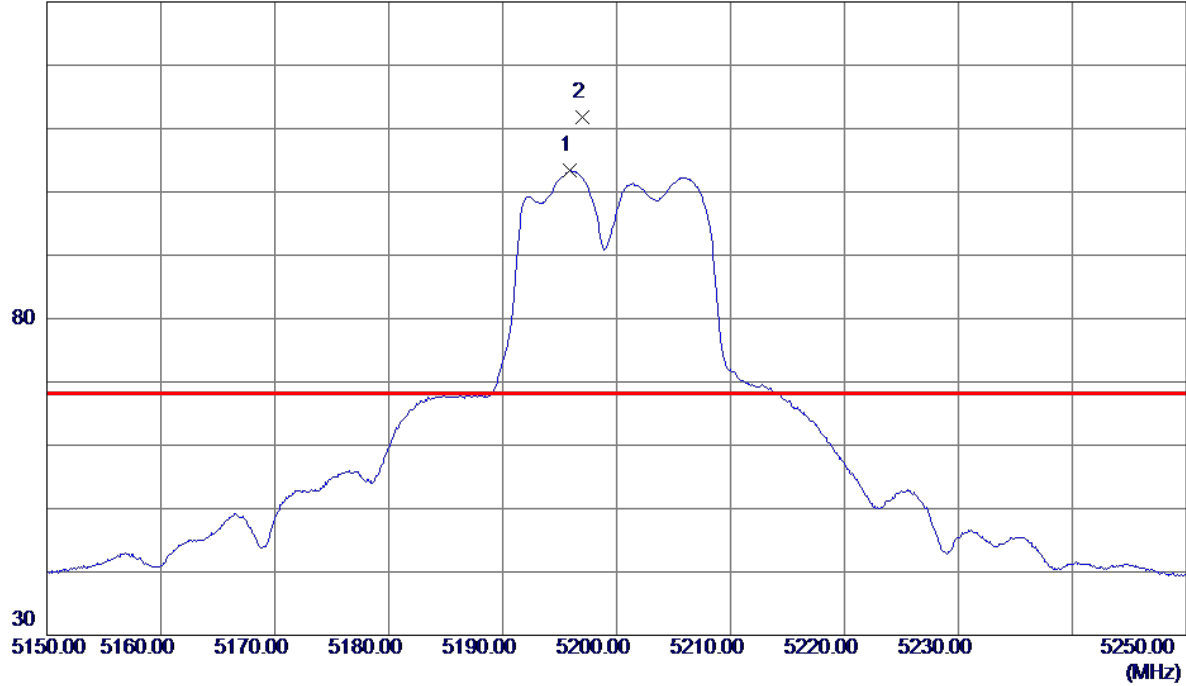


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10358.8500	36.85	20.28	57.13	68.30	-11.17	Peak	

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

Vertical

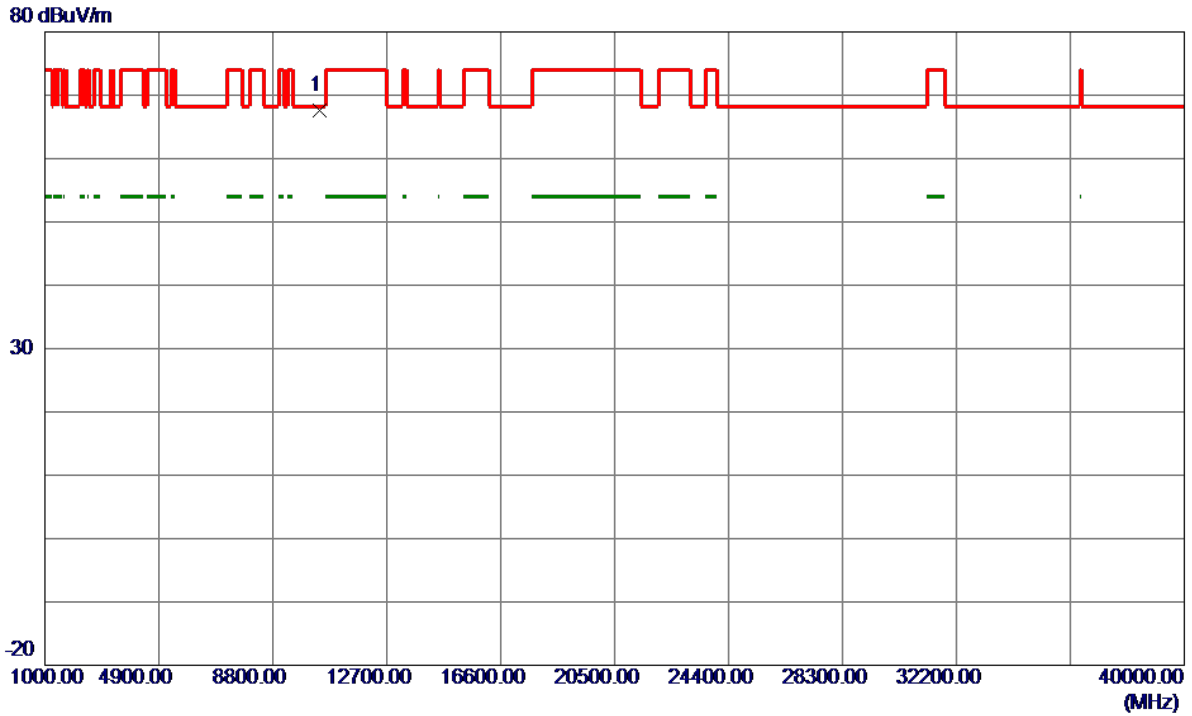
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5195.9000	86.55	16.78	103.33	999.00	-895.67	AVG	No Limit
2 *	5197.0000	95.08	16.78	111.86	68.30	43.56	Peak	No Limit

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

Vertical

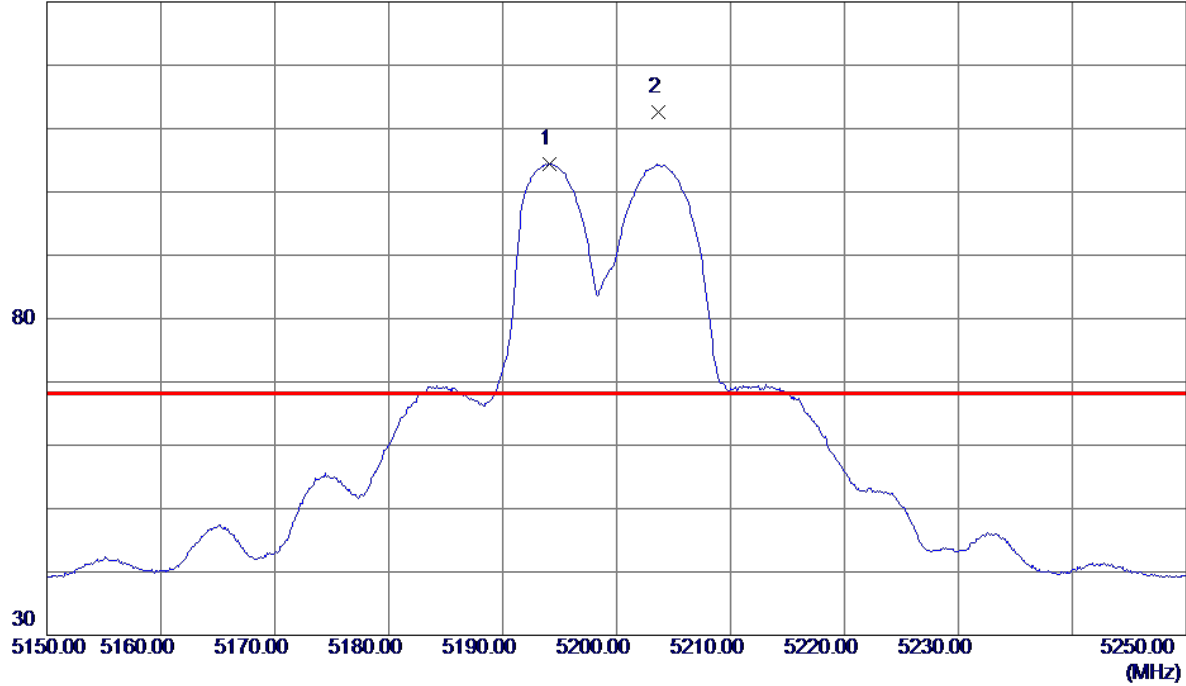


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10404.8500	47.18	20.34	67.52	68.30	-0.78	Peak	

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

Horizontal

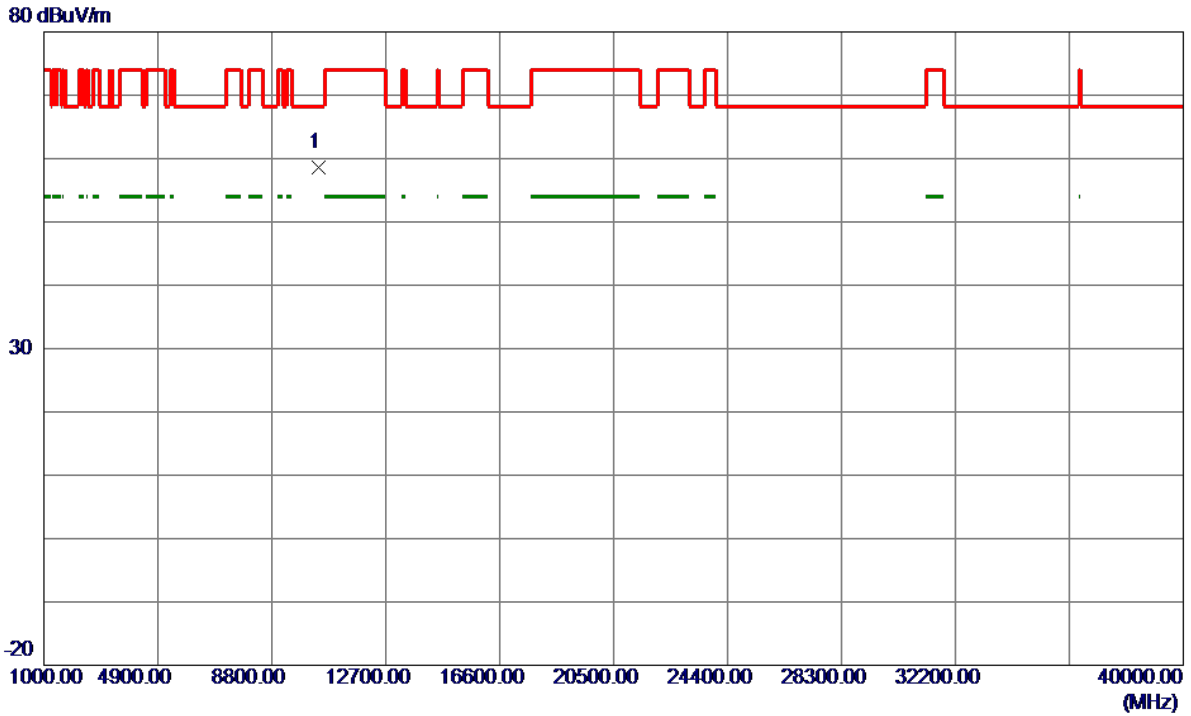
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5194.1000	87.67	16.77	104.44	999.00	-894.56	AVG	No Limit
2 *	5203.7000	95.73	16.80	112.53	68.30	44.23	Peak	No Limit

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

Horizontal

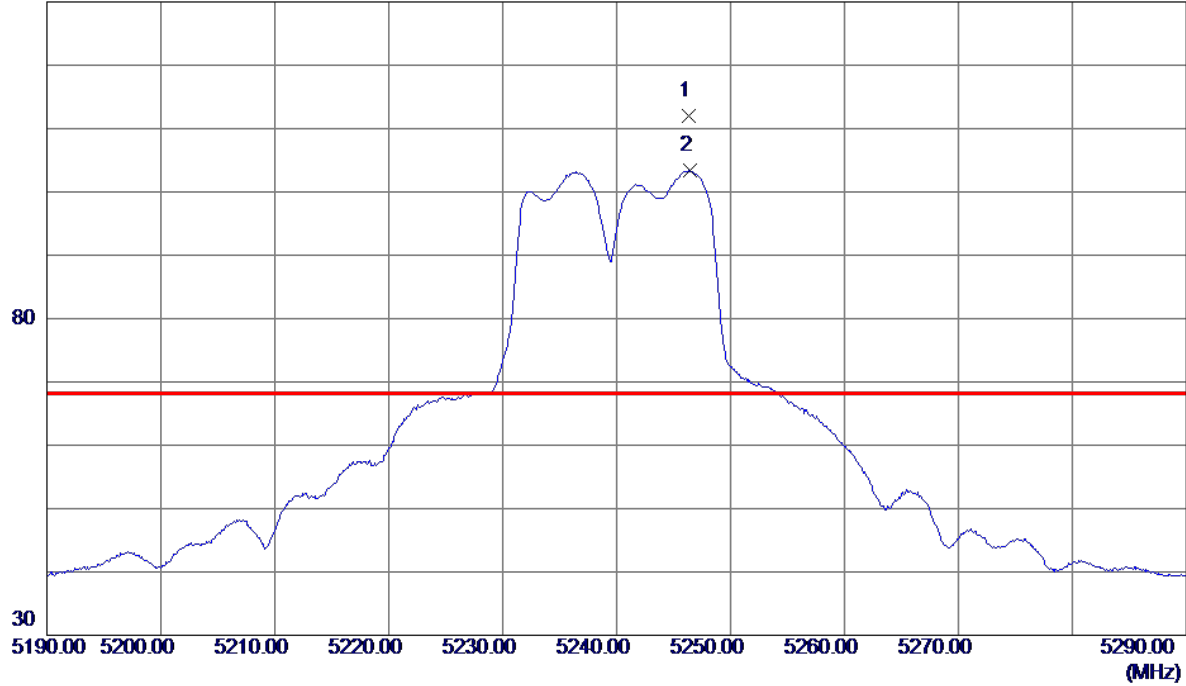


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.7500	38.36	20.33	58.69	68.30	-9.61	Peak	

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

Vertical

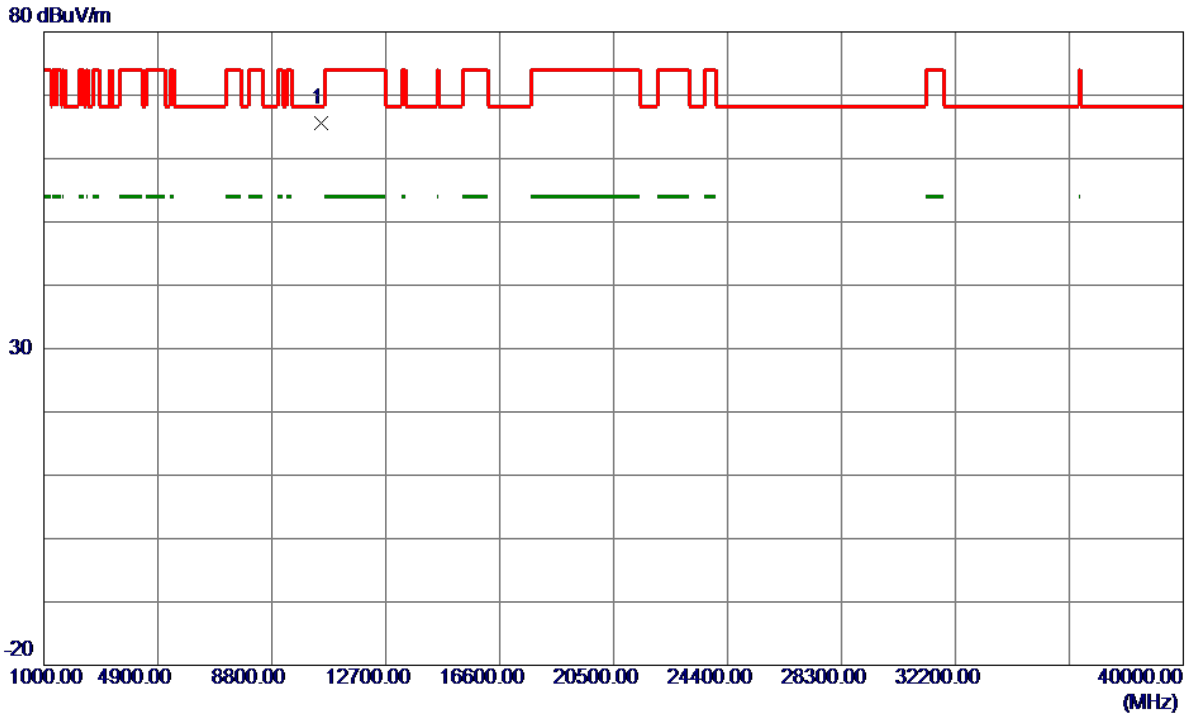
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5246.3000	95.12	16.92	112.04	68.30	43.74	Peak	No Limit
2	5246.4000	86.46	16.92	103.38	999.00	-895.62	AVG	No Limit

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

Vertical

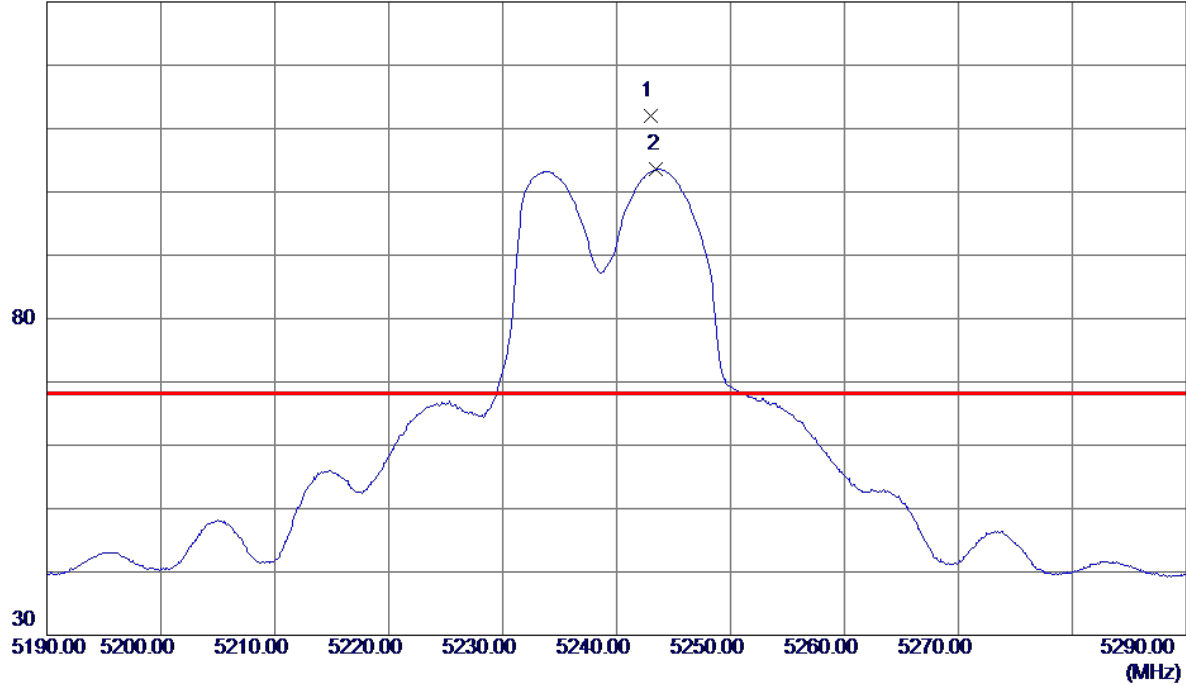


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10484.7000	45.19	20.44	65.63	68.30	-2.67	Peak	

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

Horizontal

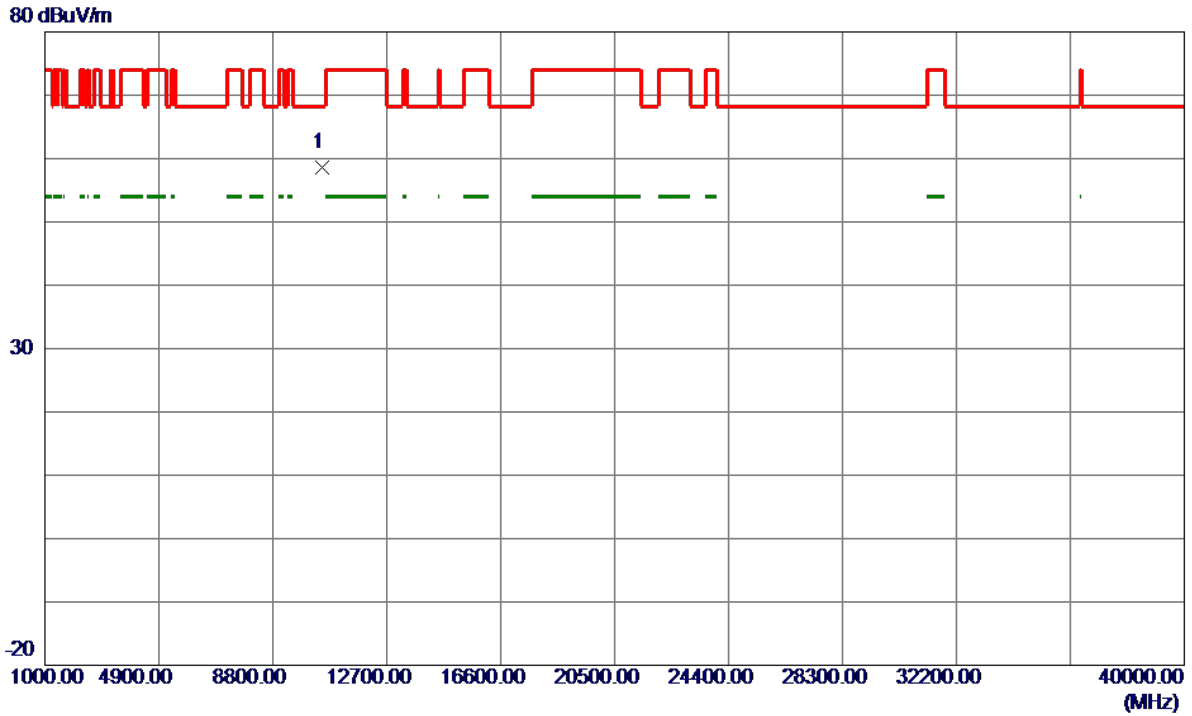
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5243.0000	95.15	16.91	112.06	68.30	43.76	Peak	No Limit
2	5243.5000	86.68	16.91	103.59	999.00	-895.41	AVG	No Limit

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

Horizontal

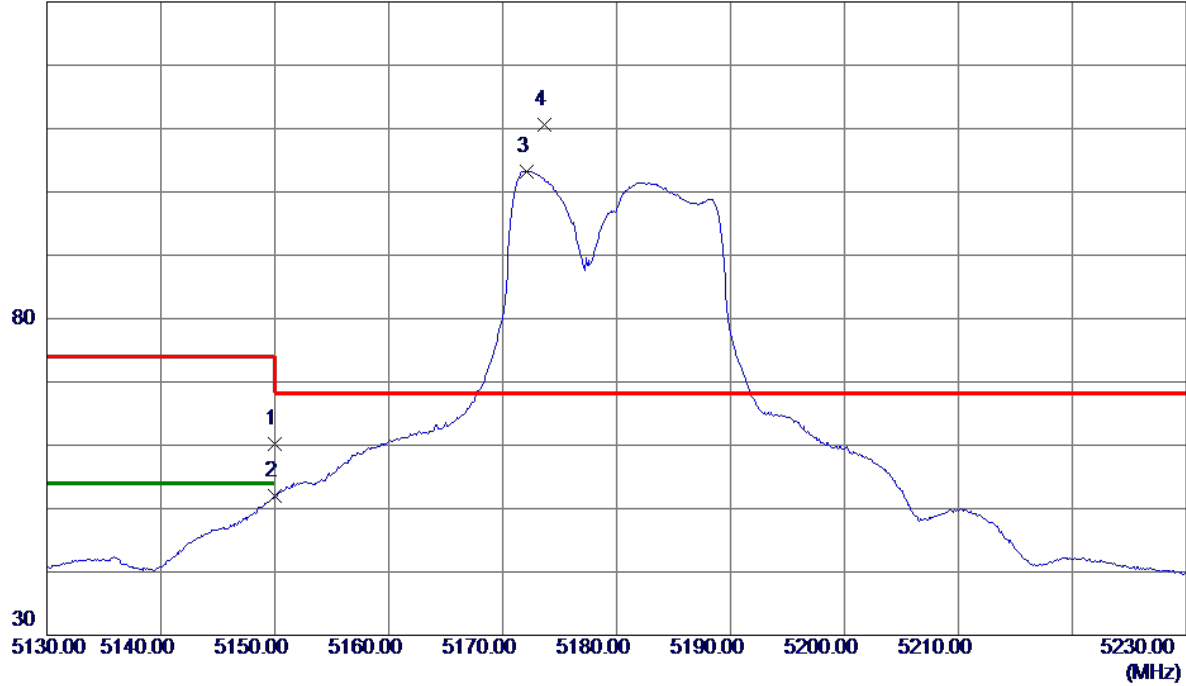


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10481.2500	38.22	20.44	58.66	68.30	-9.64	Peak	

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

Vertical

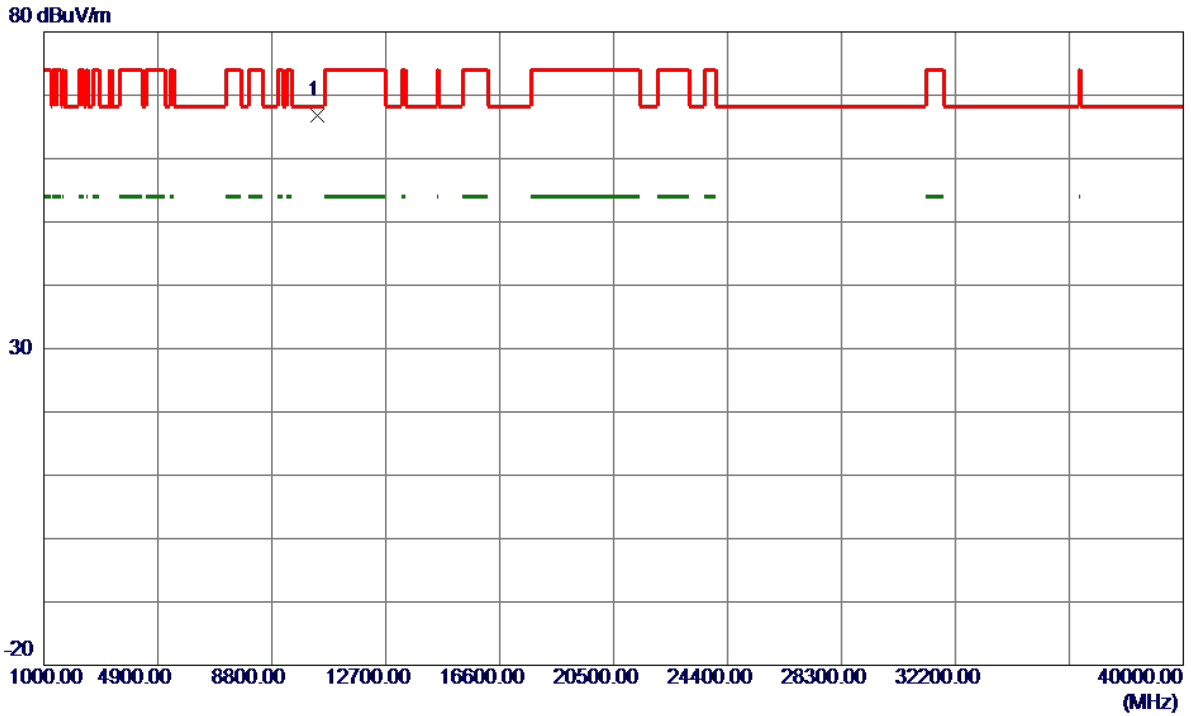
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	43.57	16.65	60.22	74.00	-13.78	Peak	
2	5150.0000	35.31	16.65	51.96	54.00	-2.04	AVG	
3	5172.1000	86.57	16.71	103.28	999.00	-895.72	AVG	No Limit
4 *	5173.7000	93.98	16.71	110.69	68.30	42.39	Peak	No Limit

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

Vertical

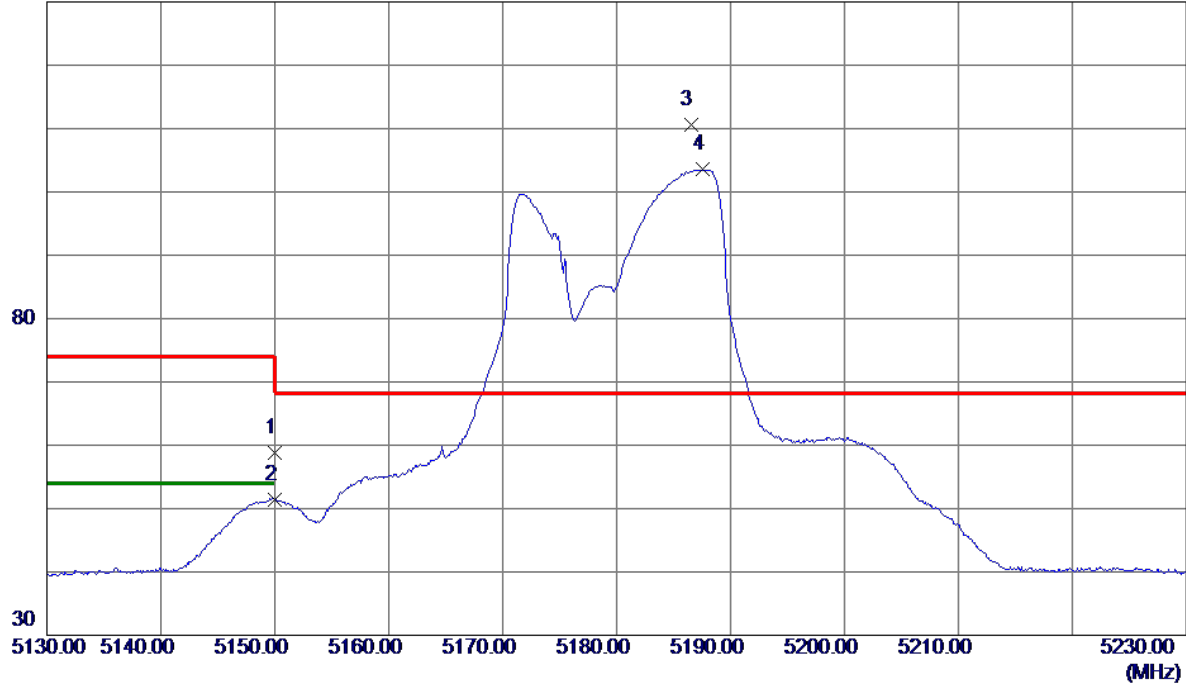


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10365.2000	46.53	20.29	66.82	68.30	-1.48	Peak	

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

Horizontal

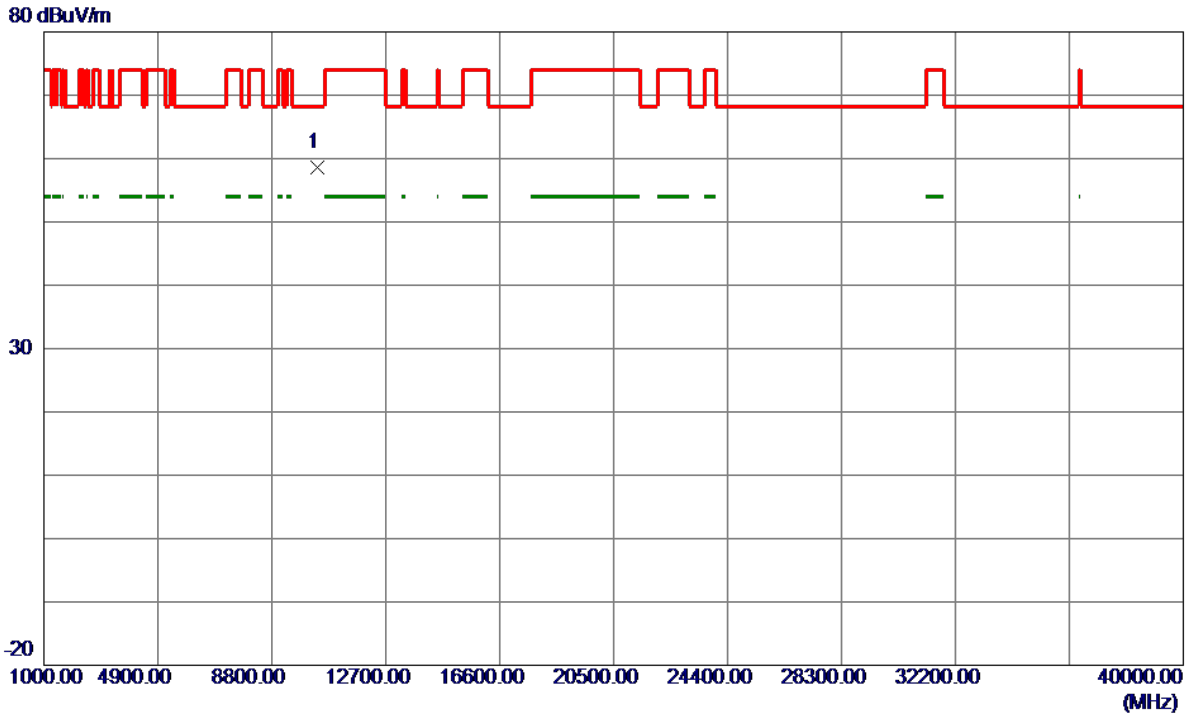
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	42.19	16.65	58.84	74.00	-15.16	Peak	
2	5150.0000	34.82	16.65	51.47	54.00	-2.53	AVG	
3 *	5186.5000	93.93	16.75	110.68	68.30	42.38	Peak	No Limit
4	5187.6000	86.76	16.75	103.51	999.00	-895.49	AVG	No Limit

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

Horizontal

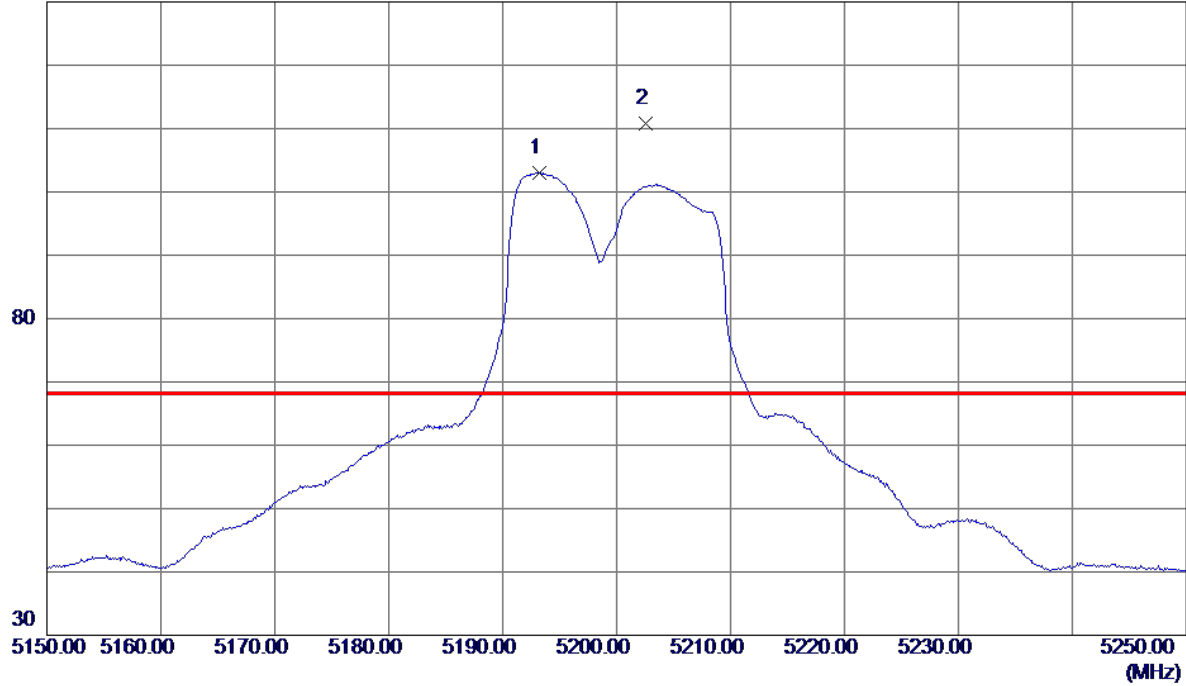


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10352.3500	38.35	20.27	58.62	68.30	-9.68	Peak	

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

Vertical

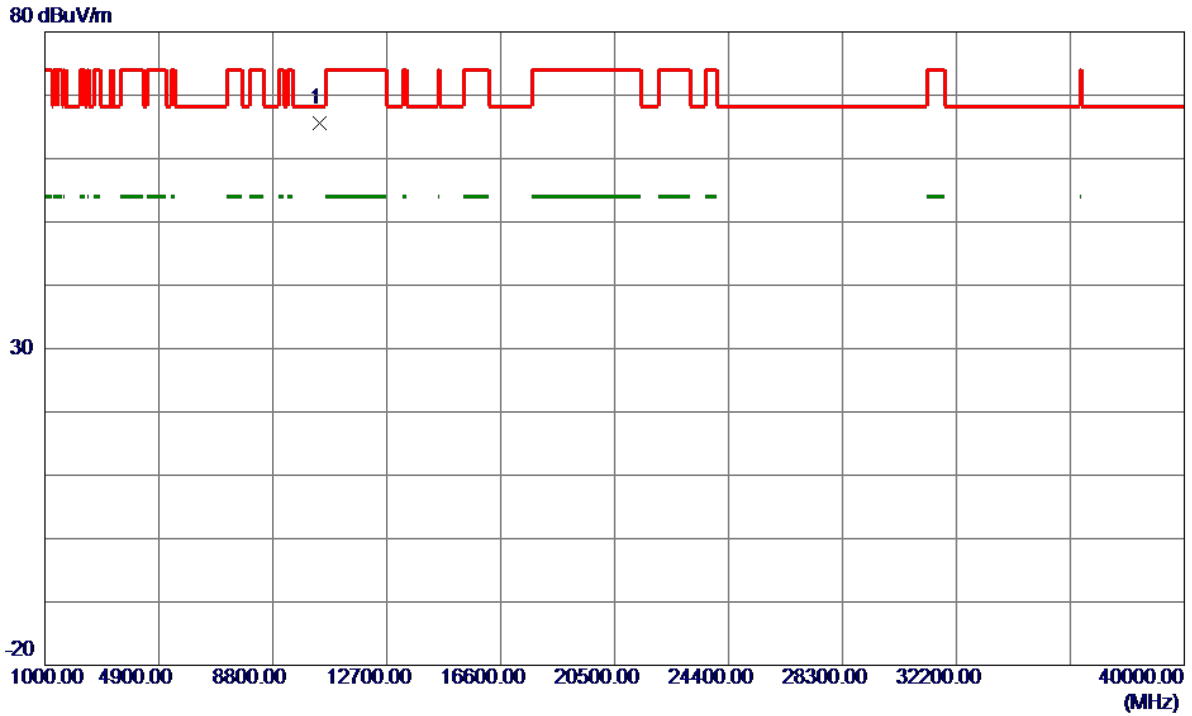
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5193.2000	86.25	16.77	103.02	999.00	-895.98	AVG	No Limit
2 *	5202.6000	93.93	16.80	110.73	68.30	42.43	Peak	No Limit

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

Vertical

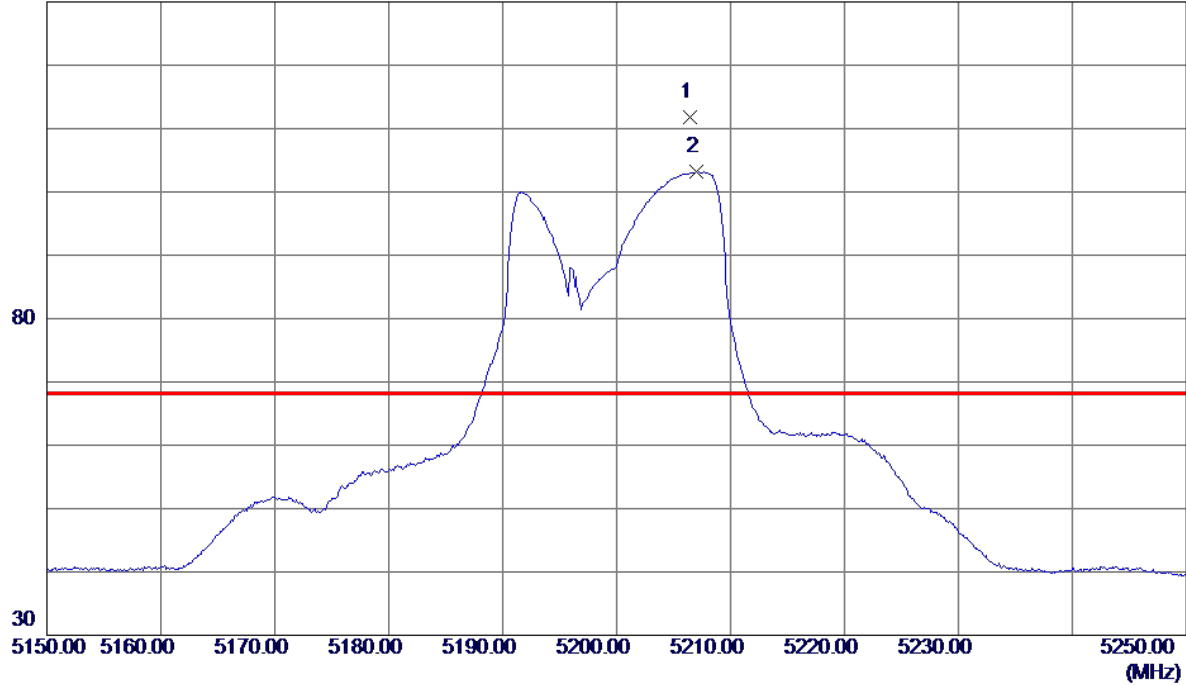


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10388.1000	45.32	20.32	65.64	68.30	-2.66	Peak	

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

Horizontal

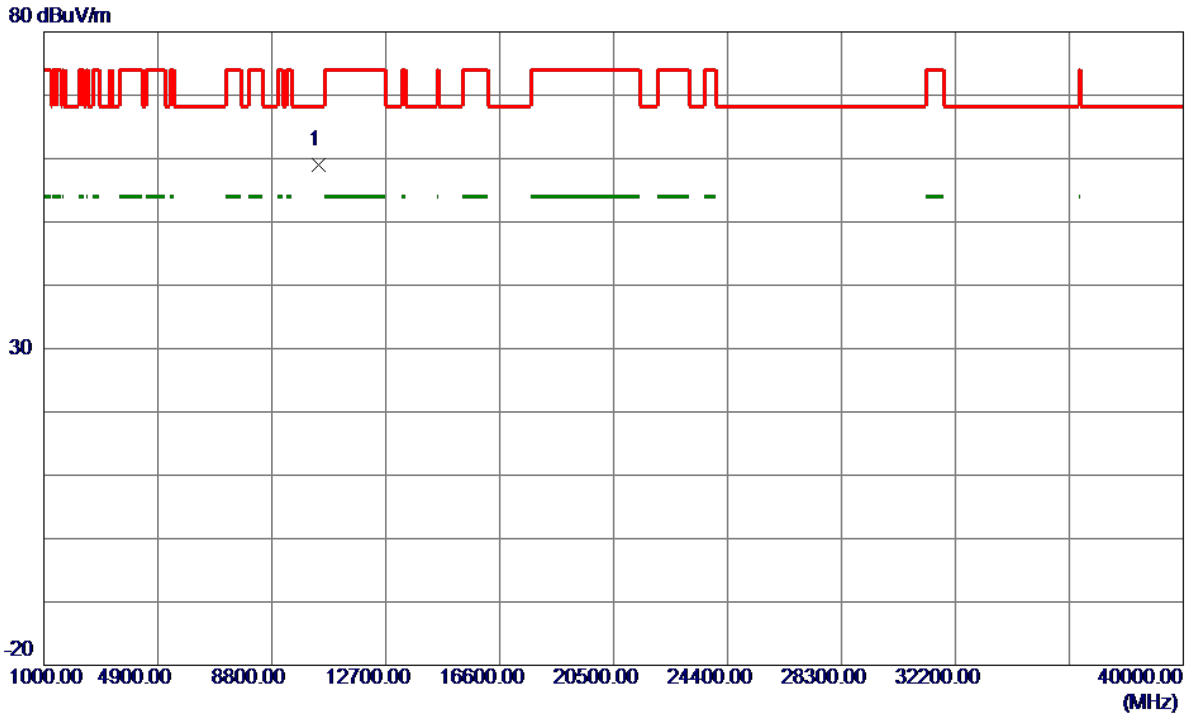
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5206.4000	94.95	16.81	111.76	68.30	43.46	Peak	No Limit
2	5207.0000	86.35	16.81	103.16	999.00	-895.84	AVG	No Limit

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

Horizontal

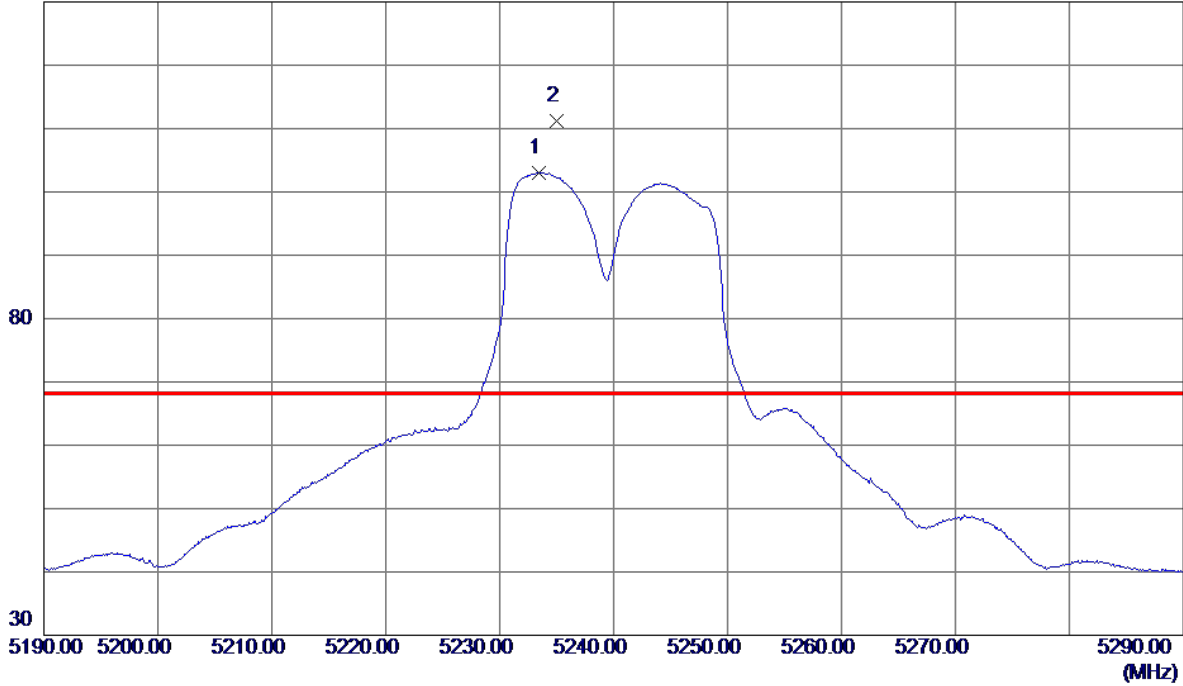


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10395.4000	38.76	20.33	59.09	68.30	-9.21	Peak	

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

Vertical

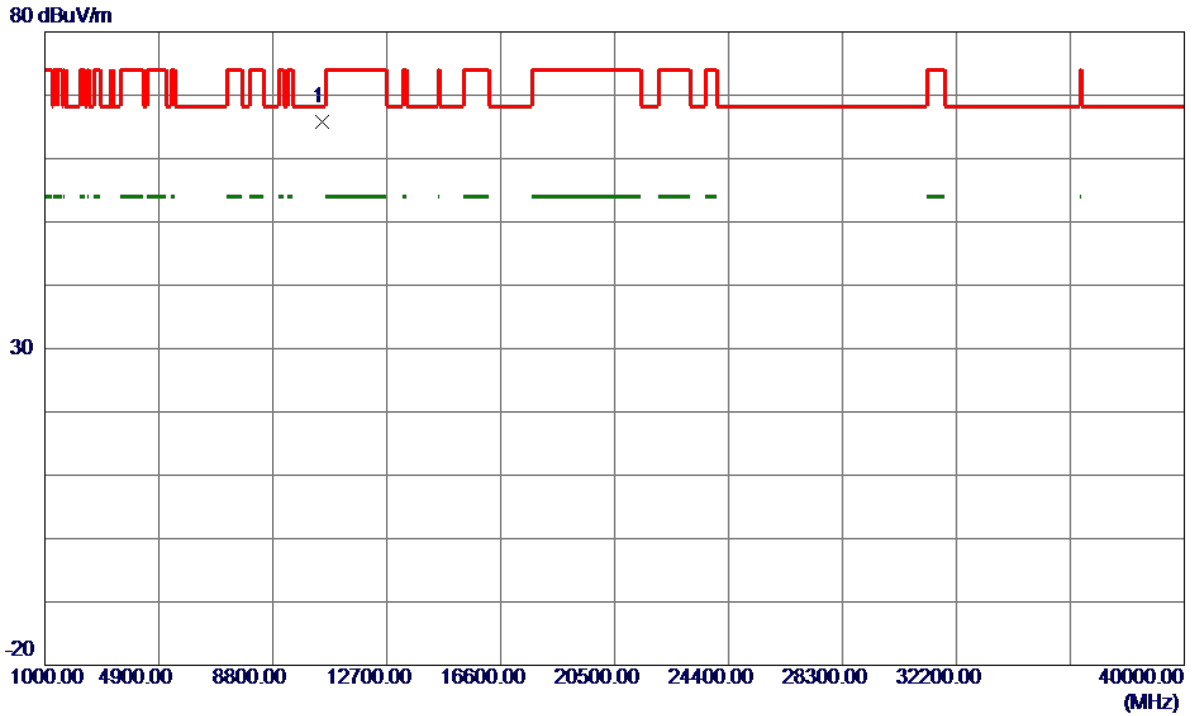
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5233.4000	86.10	16.88	102.98	999.00	-896.02	AVG	No Limit
2 *	5235.0000	94.30	16.89	111.19	68.30	42.89	Peak	No Limit

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

Vertical

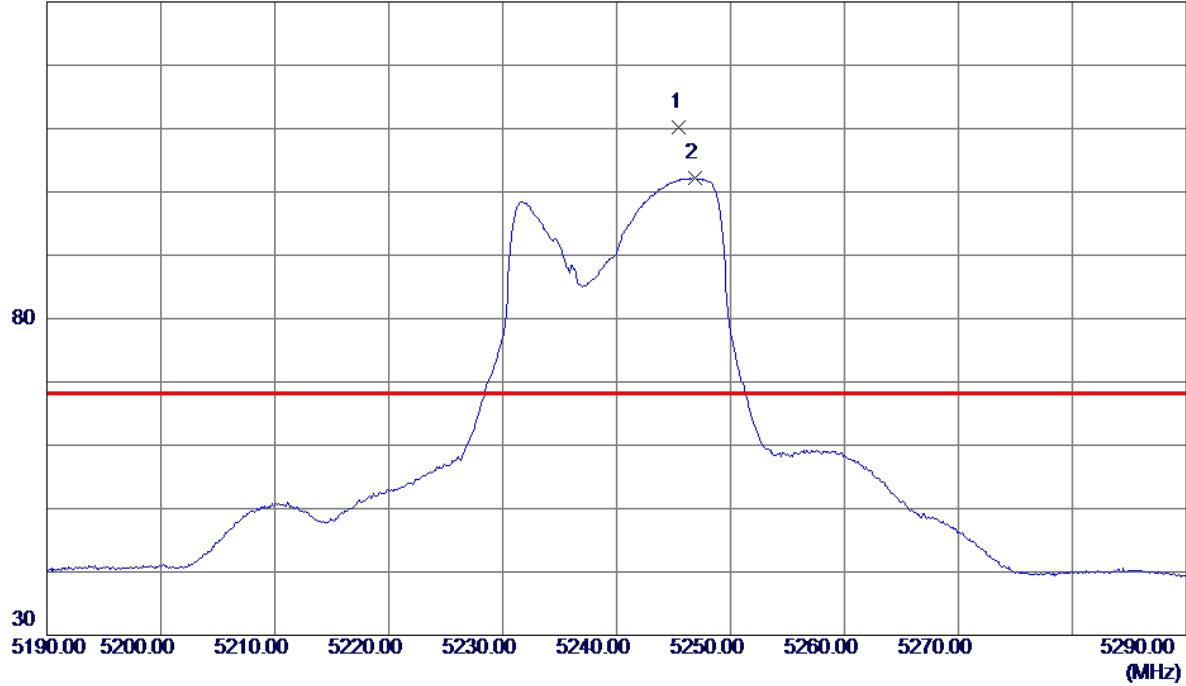


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10483.7500	45.38	20.44	65.82	68.30	-2.48	Peak	

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

Horizontal

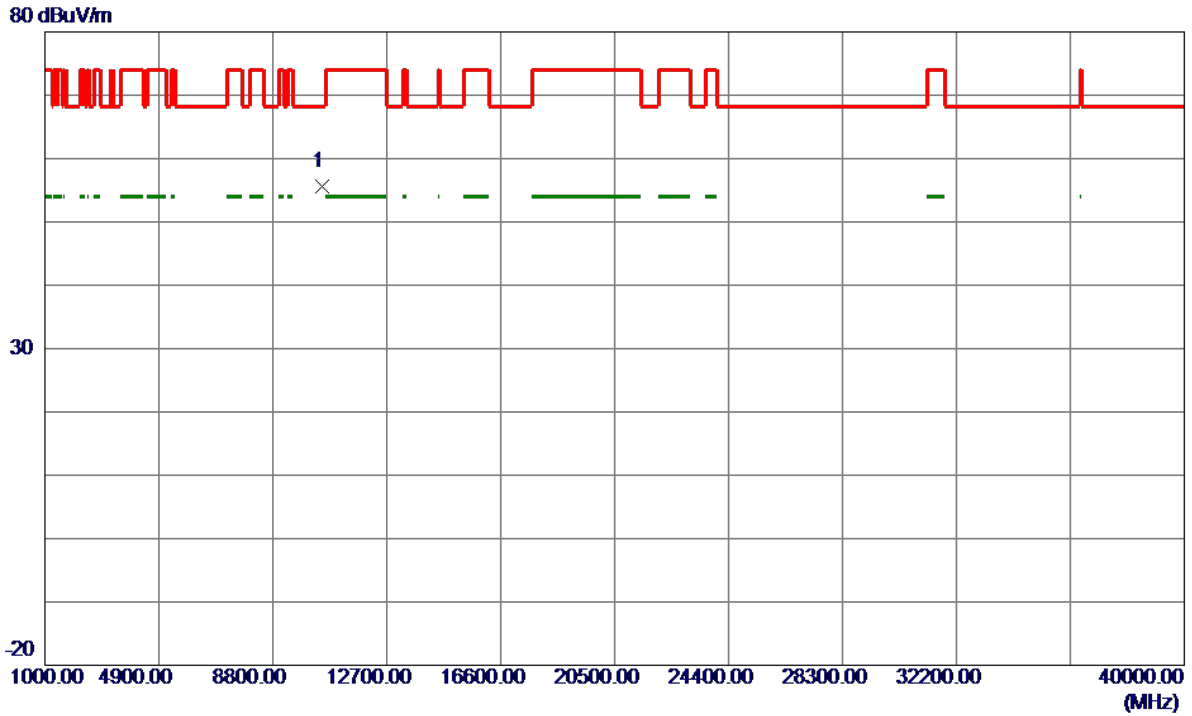
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5245.5000	93.24	16.92	110.16	68.30	41.86	Peak	No Limit
2	5246.9000	85.21	16.92	102.13	999.00	-896.87	AVG	No Limit

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

Horizontal

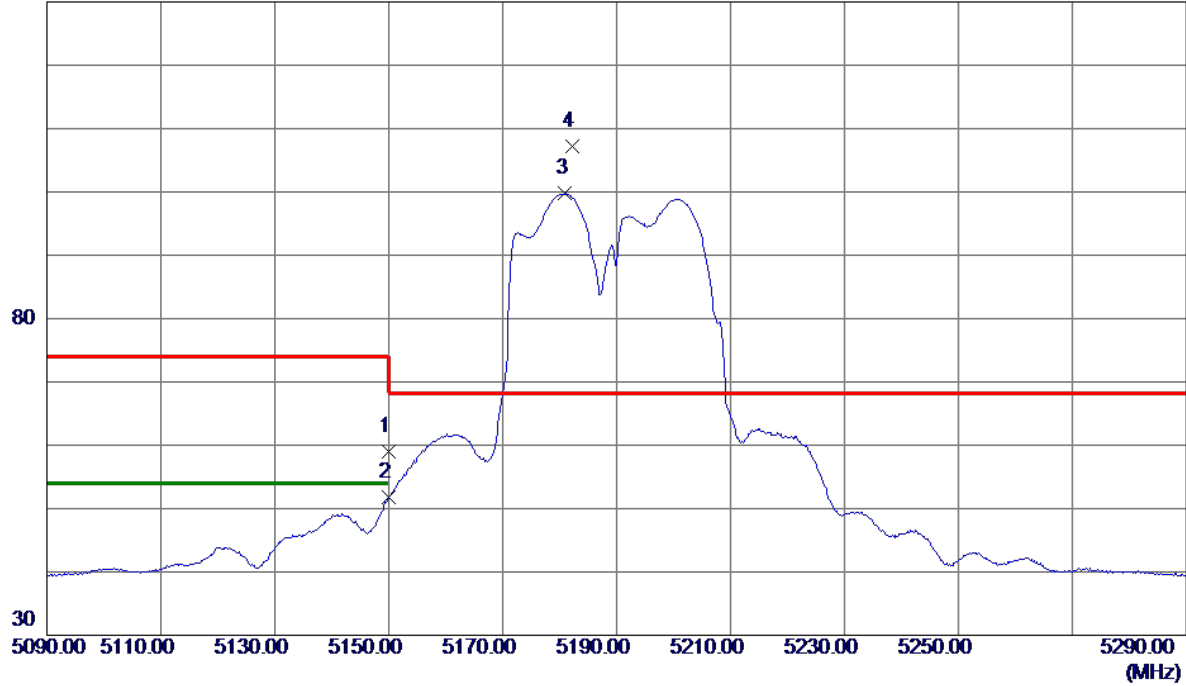


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10483.0500	35.25	20.44	55.69	68.30	-12.61	Peak	

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

Vertical

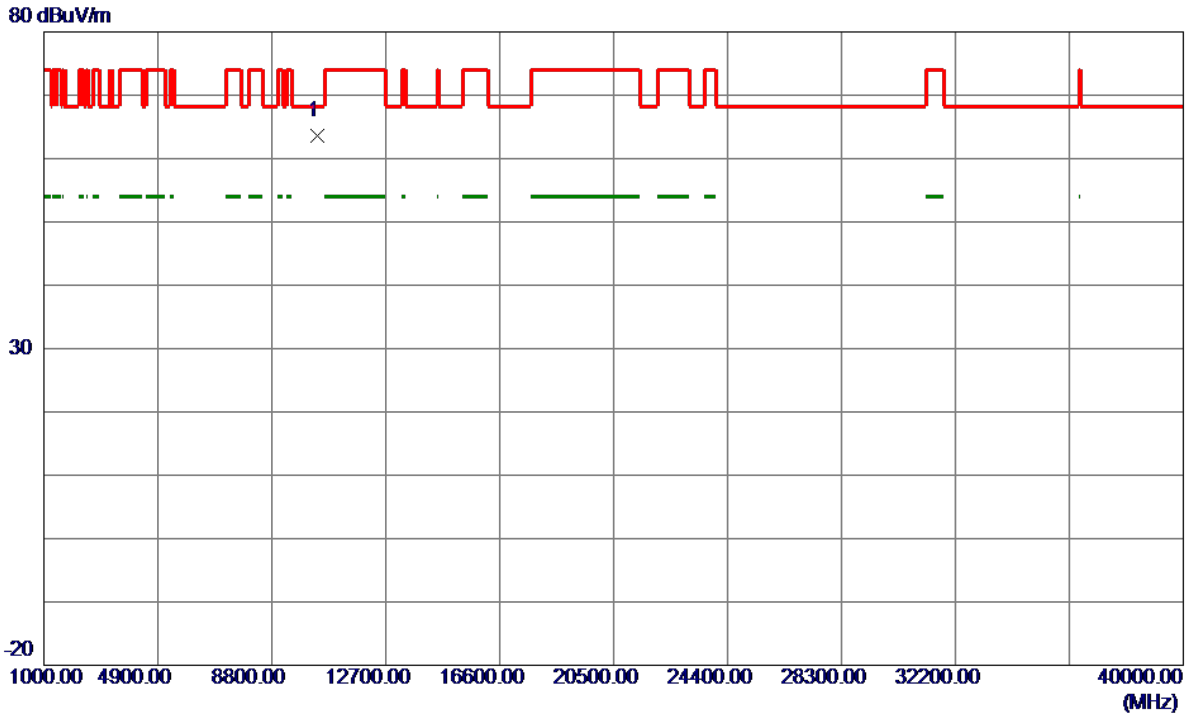
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	42.34	16.65	58.99	74.00	-15.01	Peak	
2	5150.0000	35.06	16.65	51.71	54.00	-2.29	AVG	
3	5181.0000	83.00	16.73	99.73	999.00	-899.27	AVG	No Limit
4 *	5182.2000	90.54	16.74	107.28	68.30	38.98	Peak	No Limit

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

Vertical

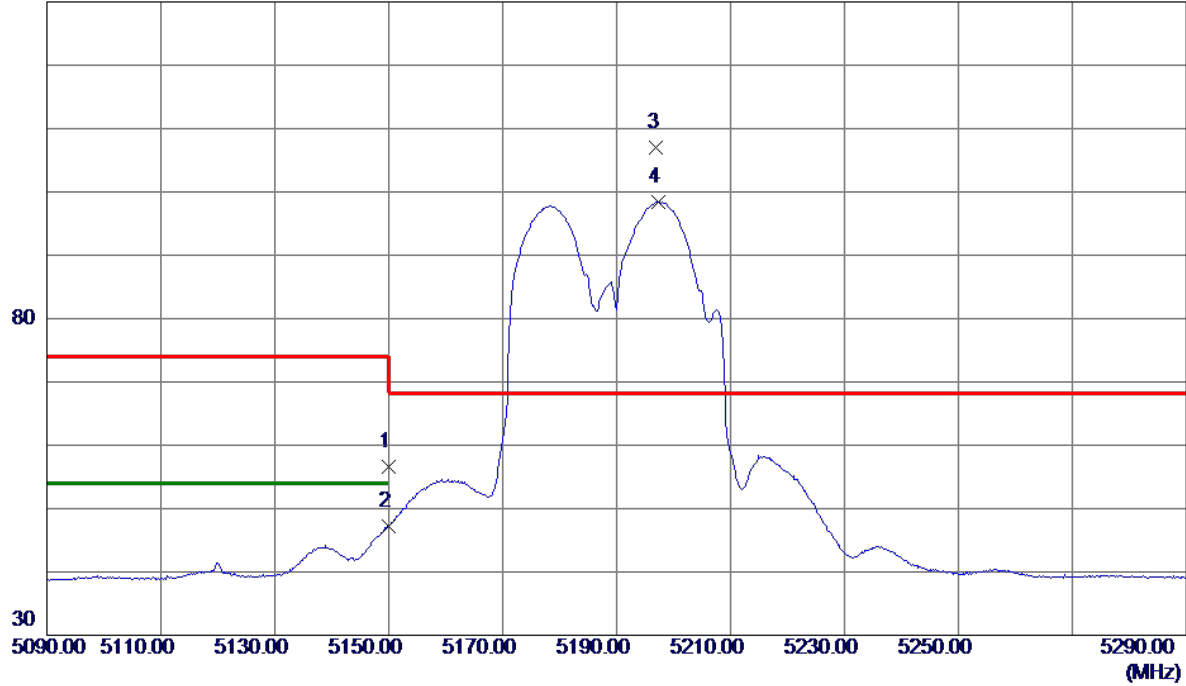


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10367.7000	43.24	20.29	63.53	68.30	-4.77	Peak	

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

Horizontal

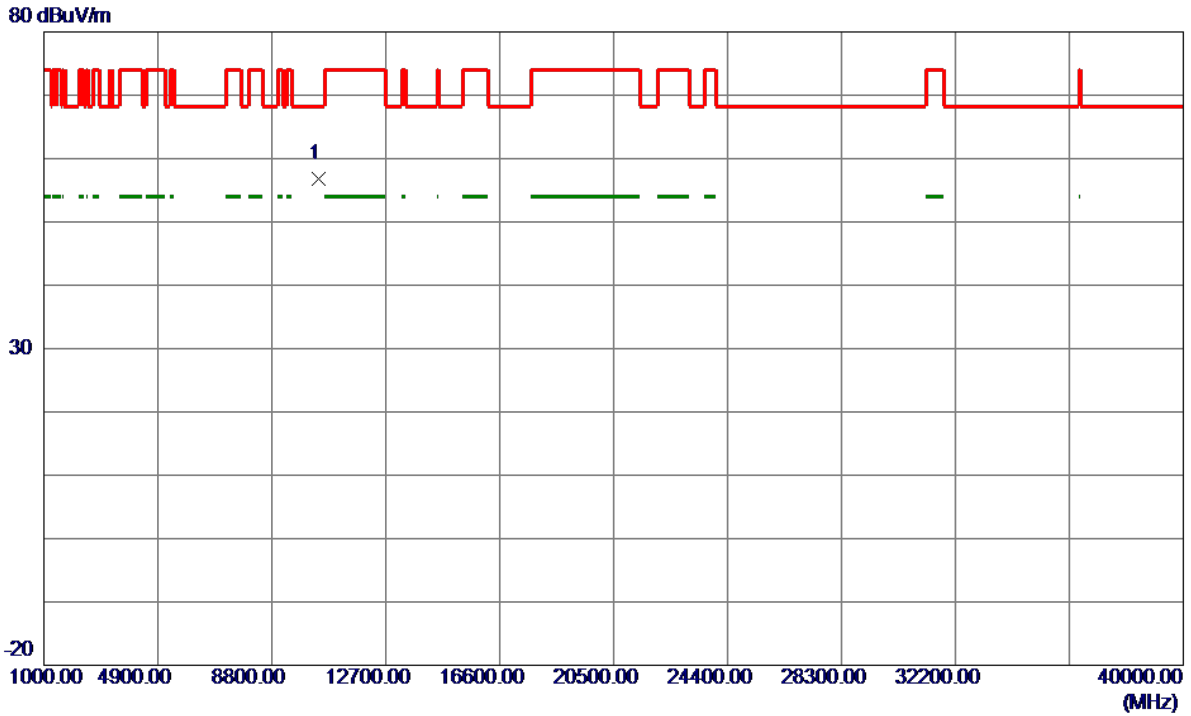
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	40.04	16.65	56.69	74.00	-17.31	Peak	
2	5150.0000	30.59	16.65	47.24	54.00	-6.76	AVG	
3 *	5197.0000	90.29	16.78	107.07	68.30	38.77	Peak	No Limit
4	5197.4000	81.67	16.78	98.45	999.00	-900.55	AVG	No Limit

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

Horizontal

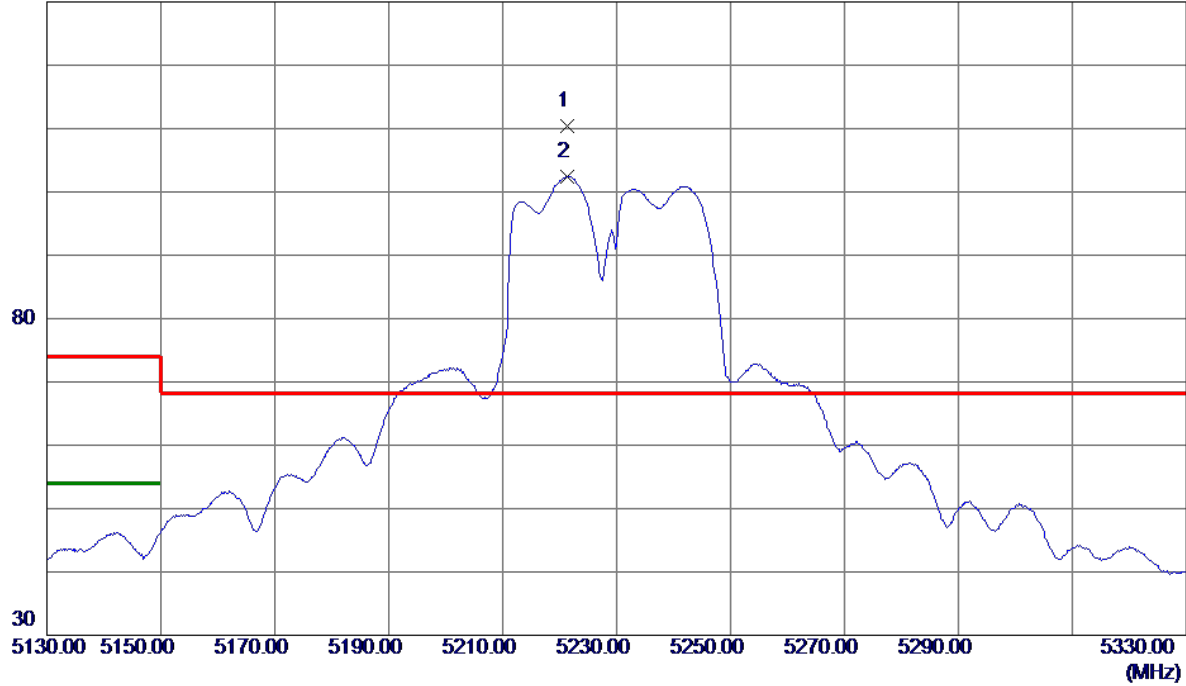


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10386.8400	36.42	20.31	56.73	68.30	-11.57	Peak	

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

Vertical

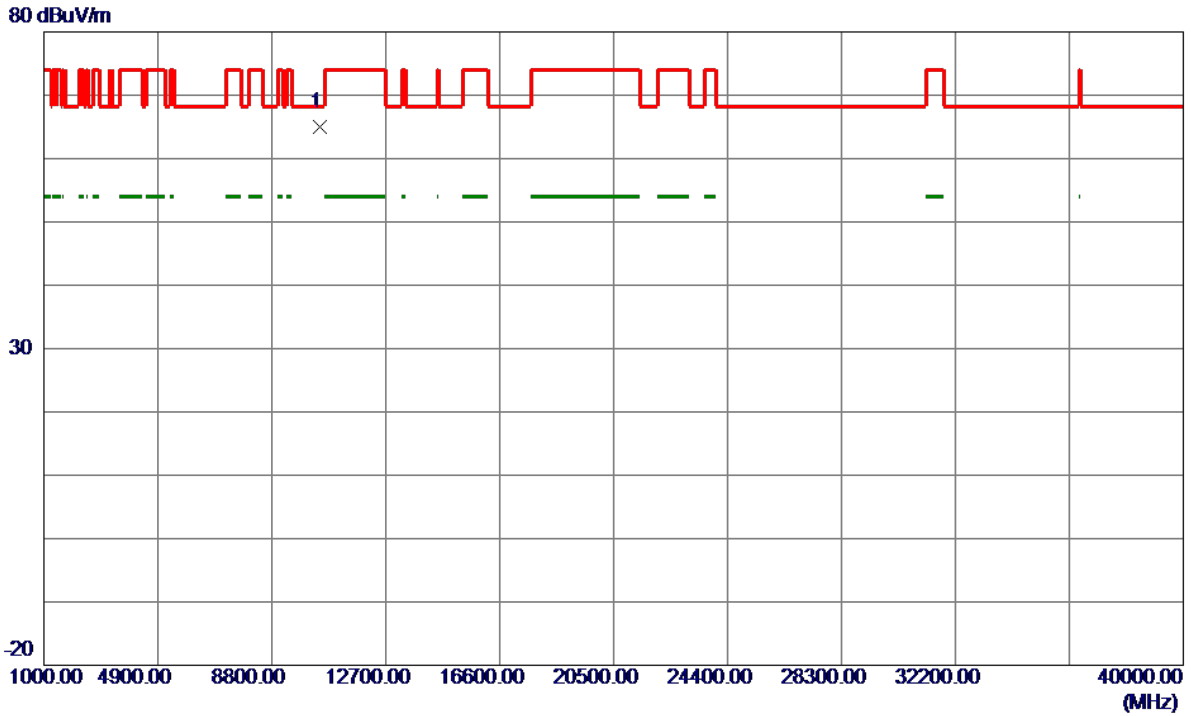
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5221.4000	93.46	16.85	110.31	68.30	42.01	Peak	No Limit
2	5221.4000	85.56	16.85	102.41	999.00	-896.59	AVG	No Limit

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

Vertical

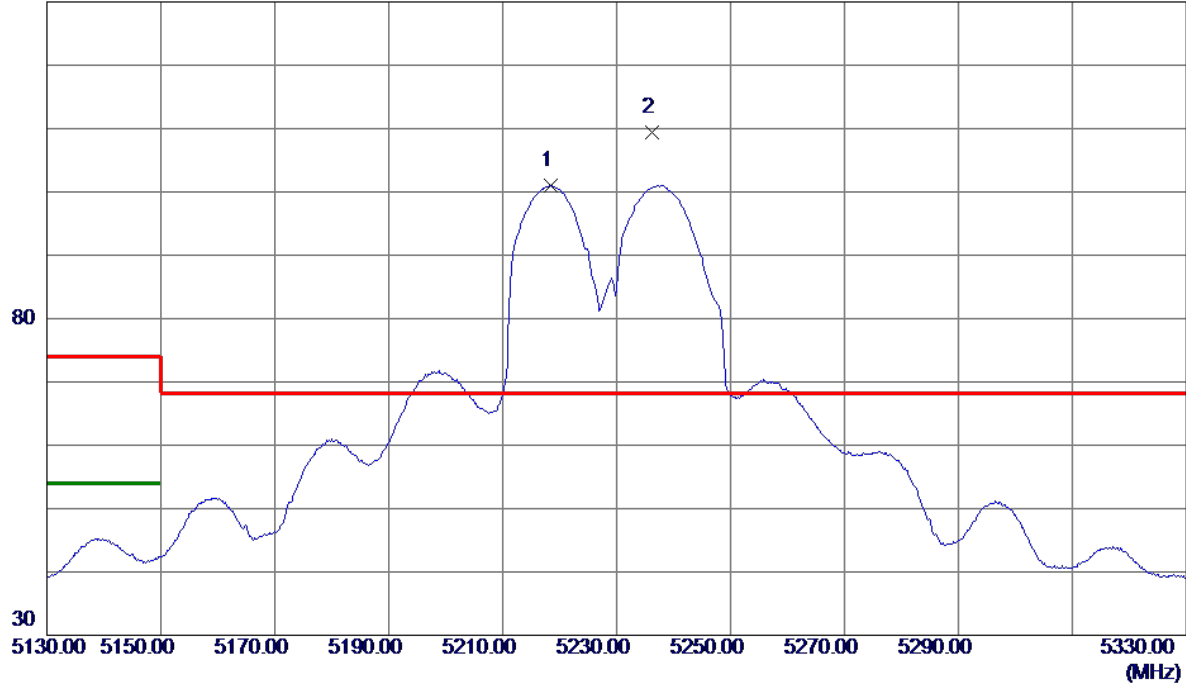


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10452.6200	44.60	20.40	65.00	68.30	-3.30	Peak	

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

Horizontal

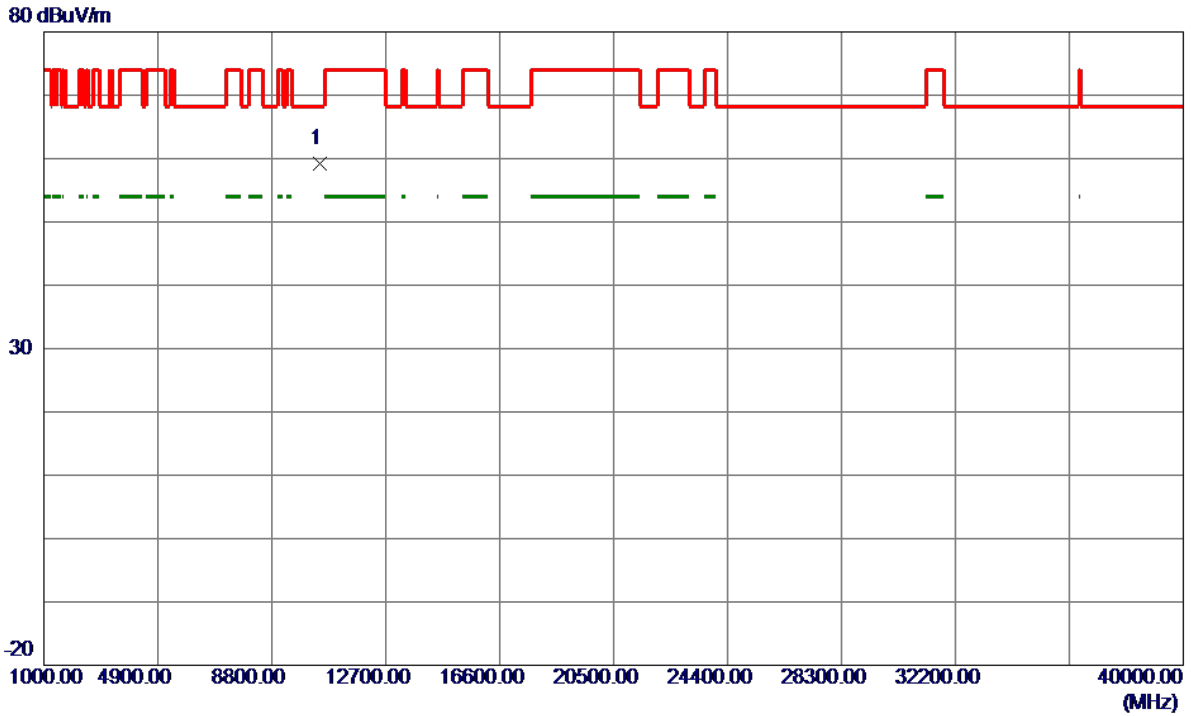
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5218.4000	84.22	16.84	101.06	999.00	-897.94	AVG	No Limit
2 *	5236.2000	92.43	16.89	109.32	68.30	41.02	Peak	No Limit

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

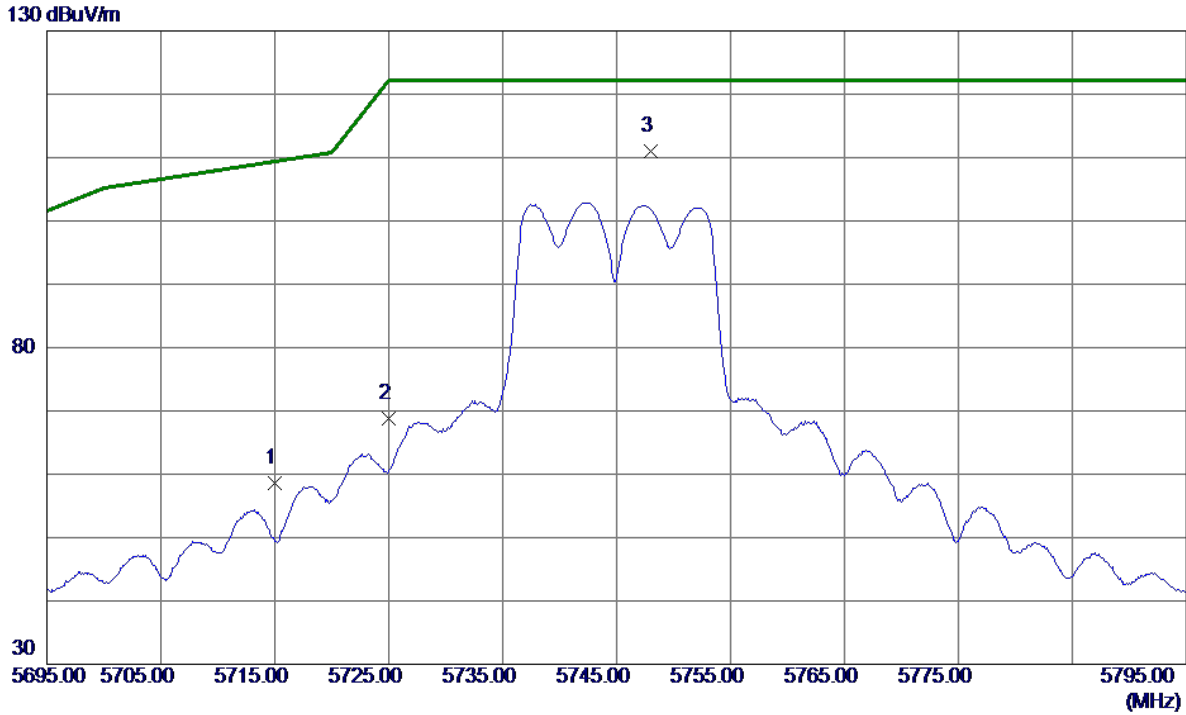
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10462.1000	38.81	20.41	59.22	68.30	-9.08	Peak	

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

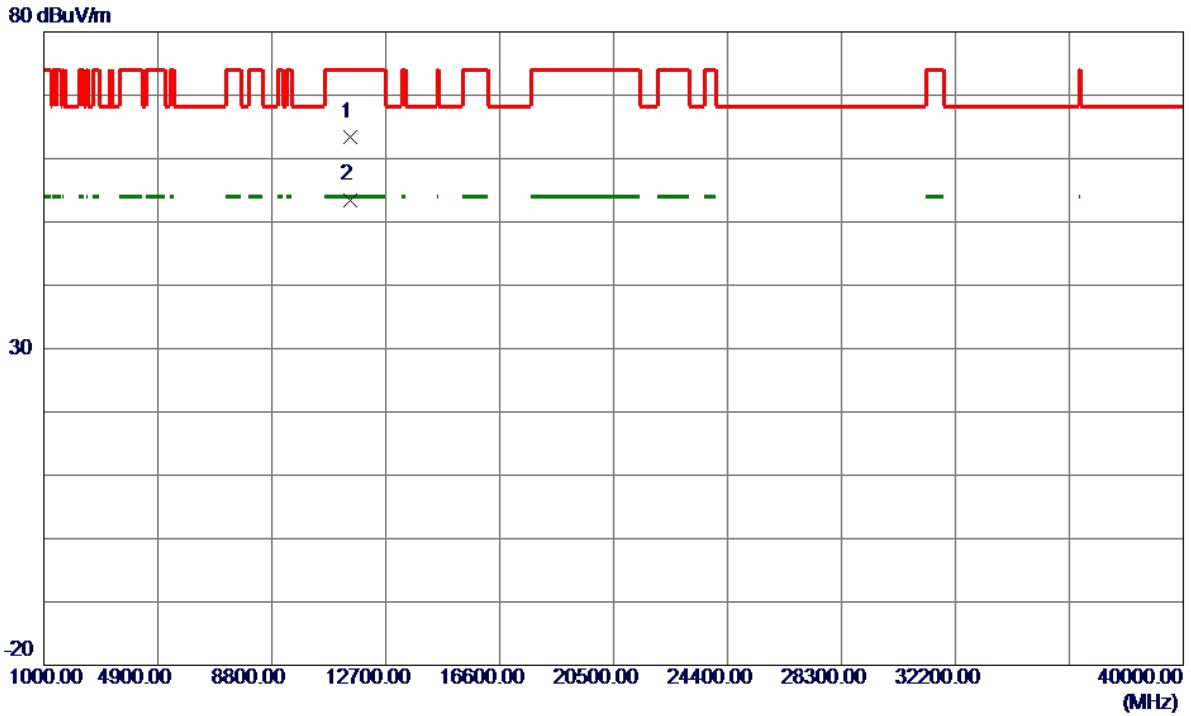
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	40.21	18.40	58.61	109.40	-50.79	Peak	
2	5725.0000	50.33	18.44	68.77	122.20	-53.43	Peak	
3 *	5748.0000	92.57	18.52	111.09	122.20	-11.11	Peak	

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

Vertical

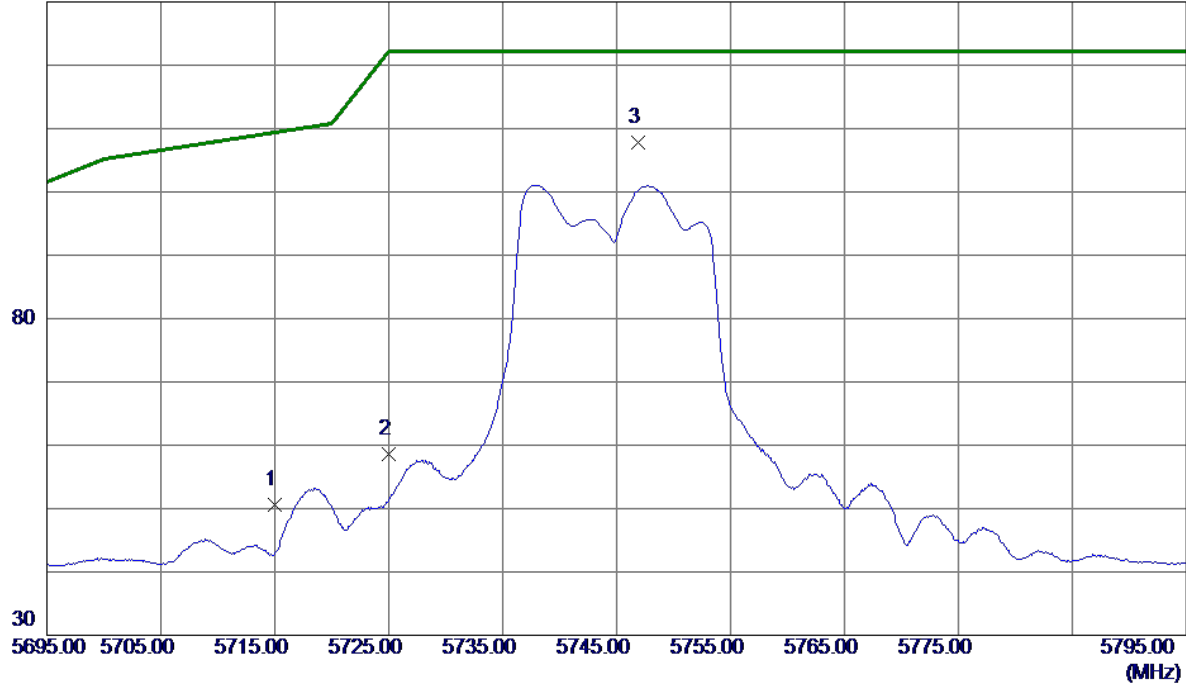


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11483.9000	42.30	21.18	63.48	74.00	-10.52	Peak	
2 *	11484.9500	32.32	21.18	53.50	54.00	-0.50	AVG	

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

Horizontal

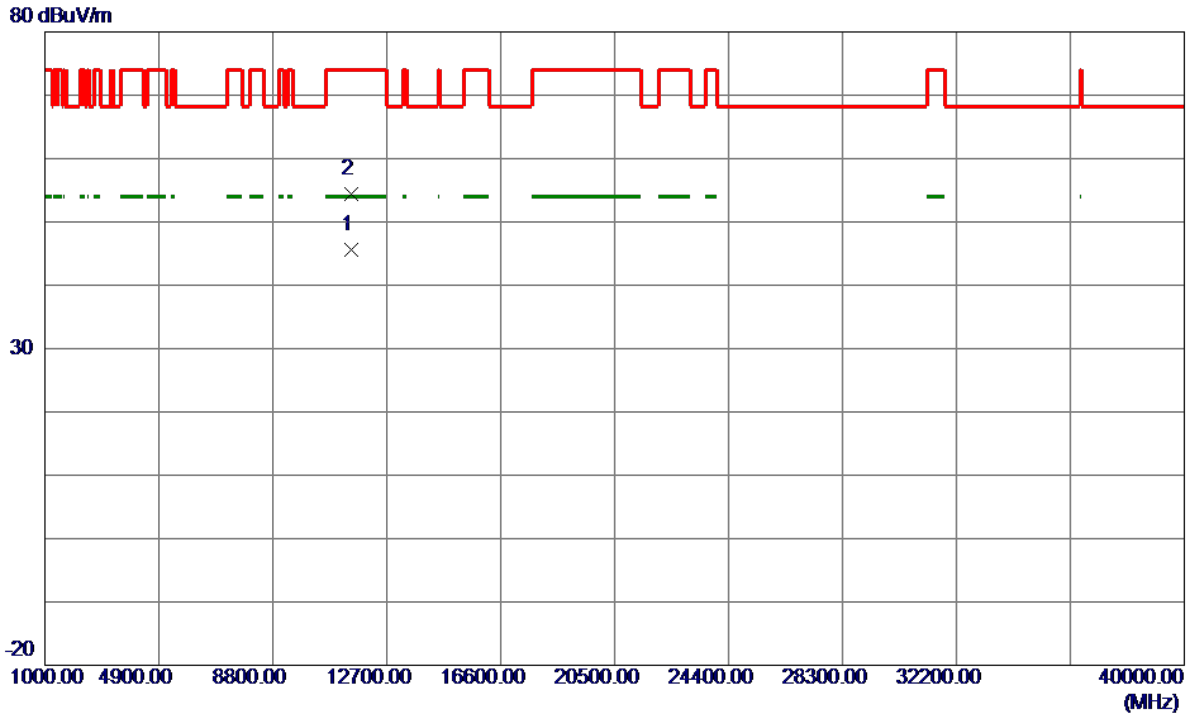
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	32.19	18.40	50.59	109.40	-58.81	Peak	
2	5725.0000	40.14	18.44	58.58	122.20	-63.62	Peak	
3 *	5746.9000	89.27	18.51	107.78	122.20	-14.42	Peak	

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

Horizontal

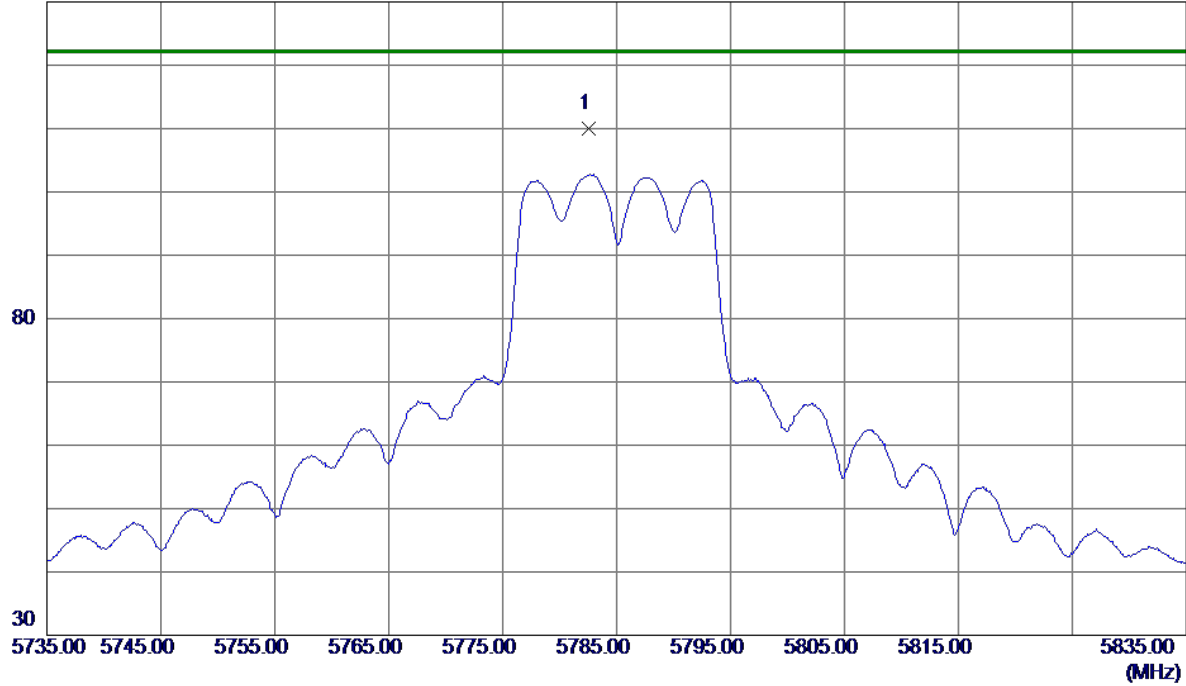


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11487.6500	24.48	21.18	45.66	54.00	-8.34	AVG	
2	11488.3500	33.21	21.18	54.39	74.00	-19.61	Peak	

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

Vertical

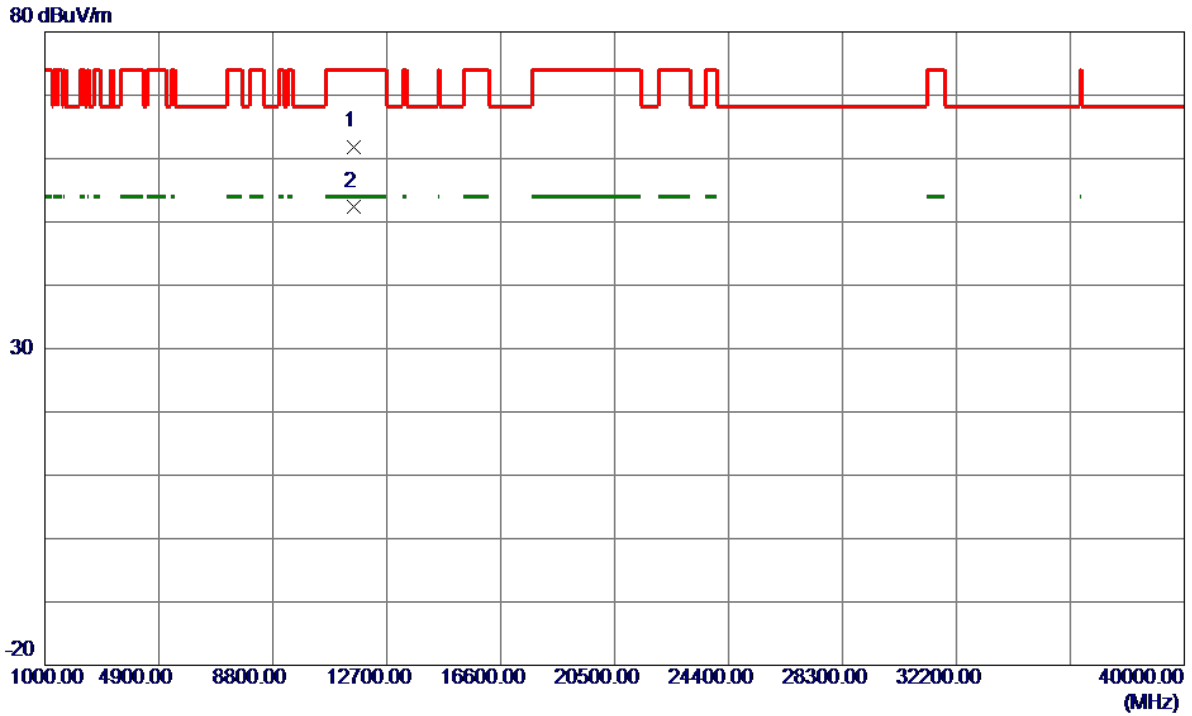
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5782.6000	91.39	18.64	110.03	122.20	-12.17	Peak	

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

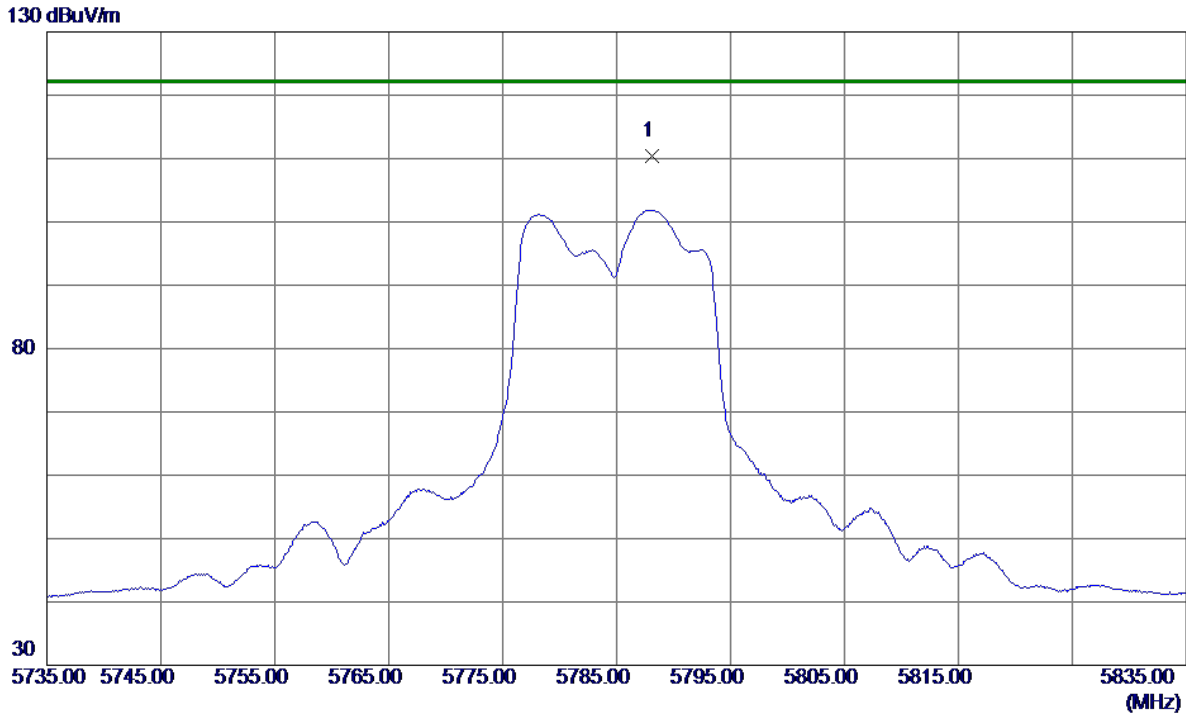
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11574.4800	40.67	21.23	61.90	74.00	-12.10	Peak	
2 *	11575.1200	31.14	21.23	52.37	54.00	-1.63	AVG	

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5788.1000	91.76	18.66	110.42	122.20	-11.78	Peak	

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

Horizontal

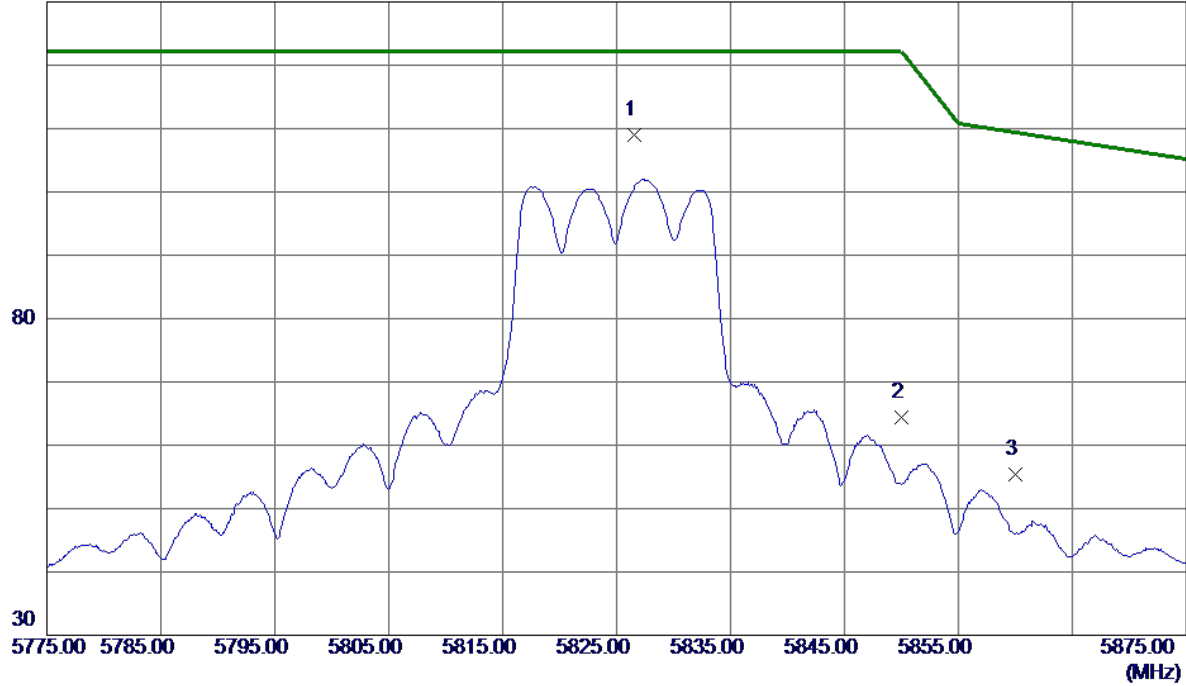


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11567.7200	36.20	21.22	57.42	74.00	-16.58	Peak	
2 *	11567.7600	25.75	21.22	46.97	54.00	-7.03	AVG	

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

Vertical

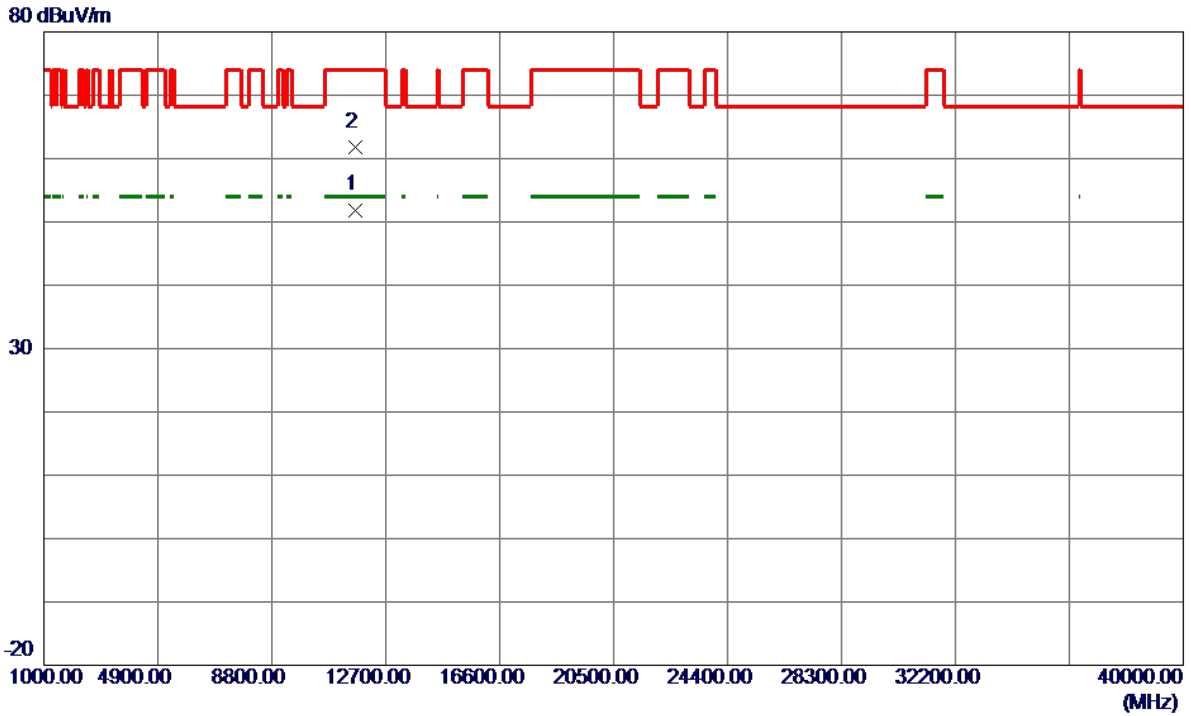
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5826.6000	90.20	18.80	109.00	122.20	-13.20	Peak	
2	5850.0000	45.54	18.88	64.42	122.20	-57.78	Peak	
3	5860.0000	36.40	18.91	55.31	109.40	-54.09	Peak	

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

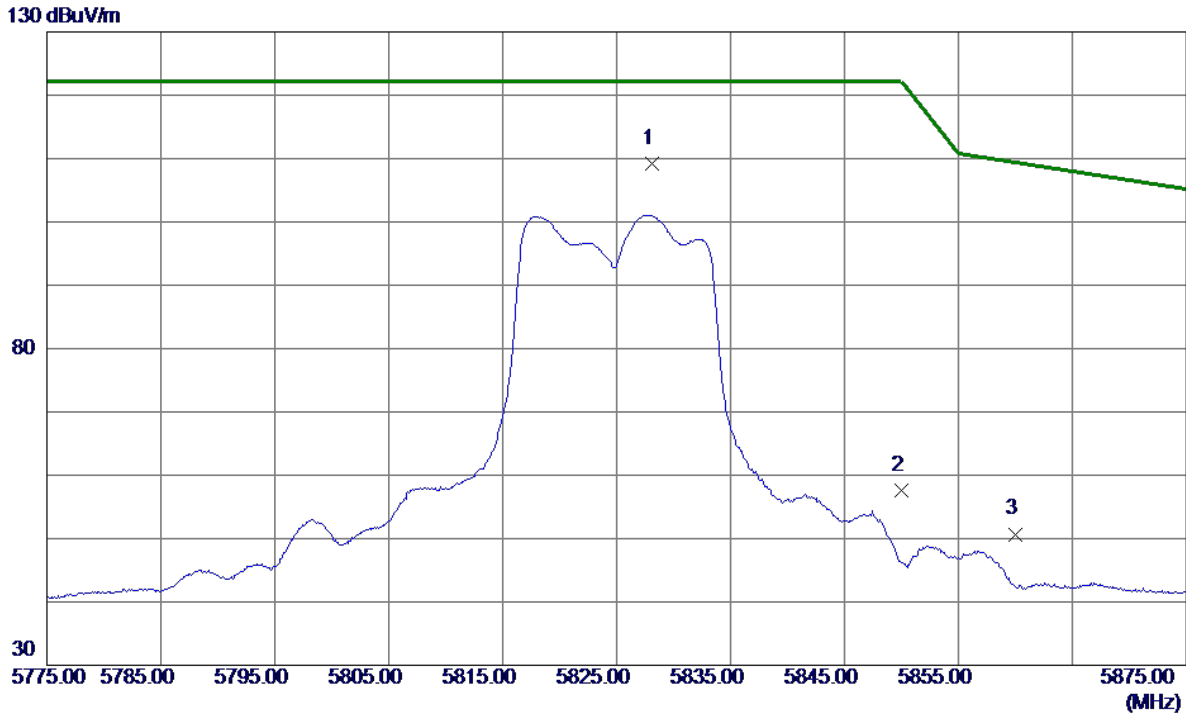
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11654.2800	30.63	21.27	51.90	54.00	-2.10	AVG	
2	11654.4000	40.58	21.27	61.85	74.00	-12.15	Peak	

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

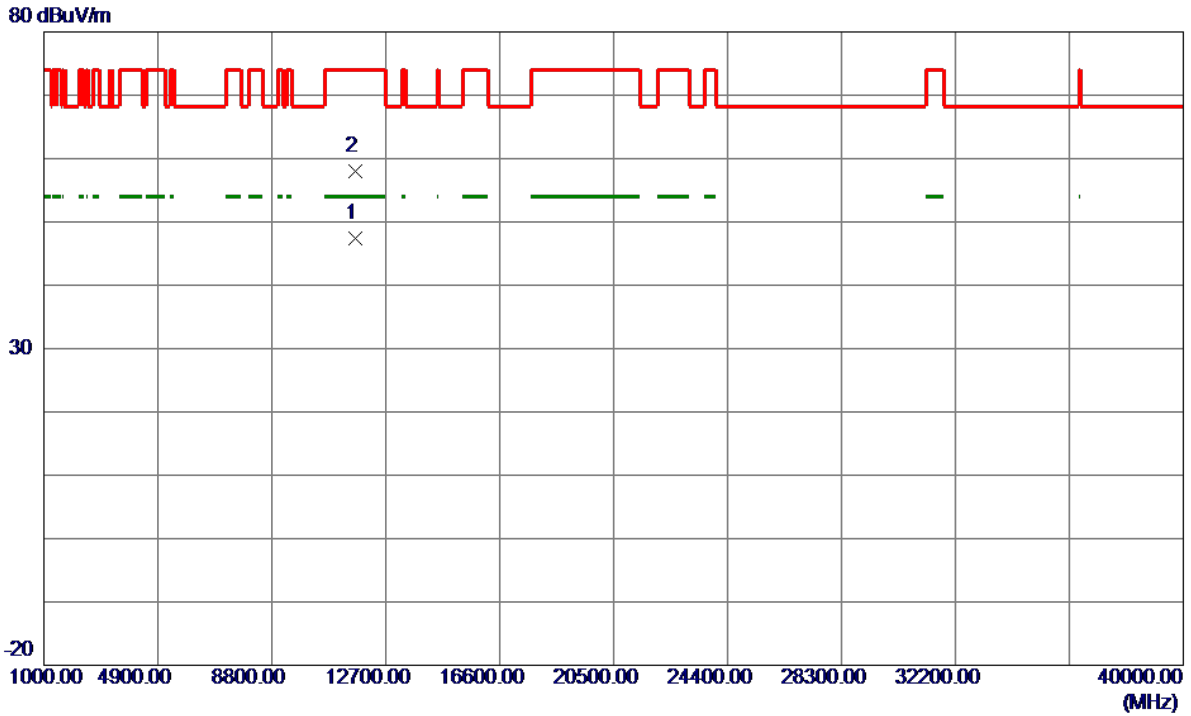
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5828.1000	90.34	18.80	109.14	122.20	-13.06	Peak	
2	5850.0000	38.75	18.88	57.63	122.20	-64.57	Peak	
3	5860.0000	31.79	18.91	50.70	109.40	-58.70	Peak	

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

Horizontal

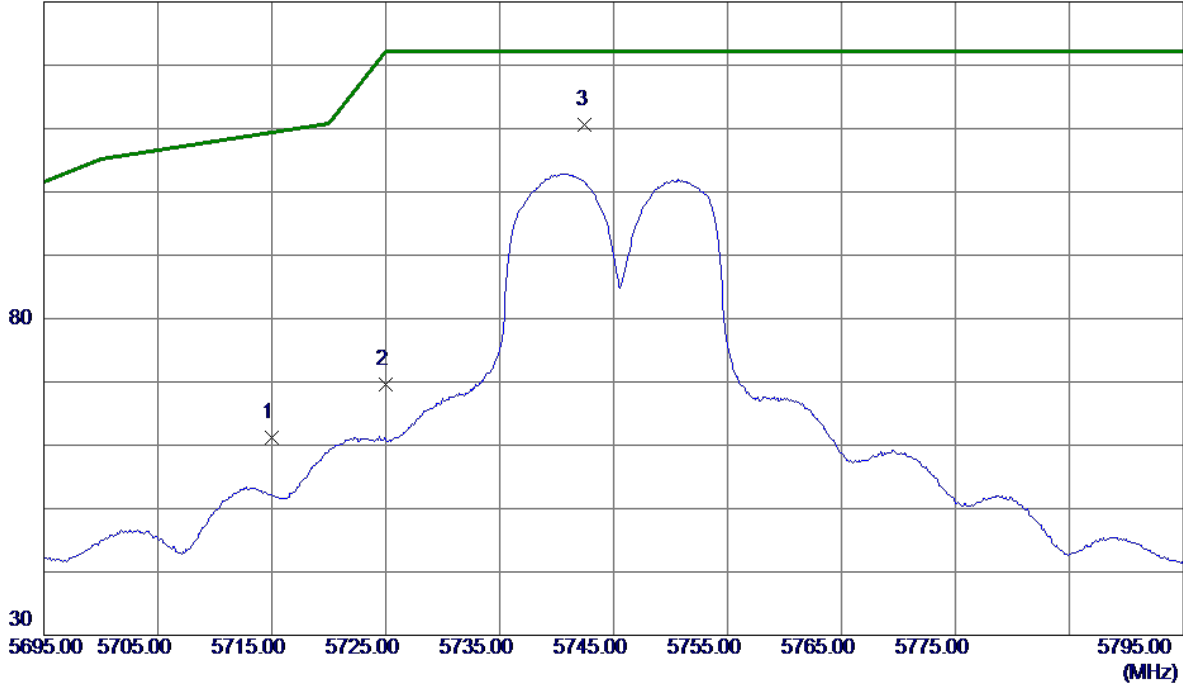


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11650.2800	26.20	21.27	47.47	54.00	-6.53	AVG	
2	11651.9200	36.67	21.27	57.94	74.00	-16.06	Peak	

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

Vertical

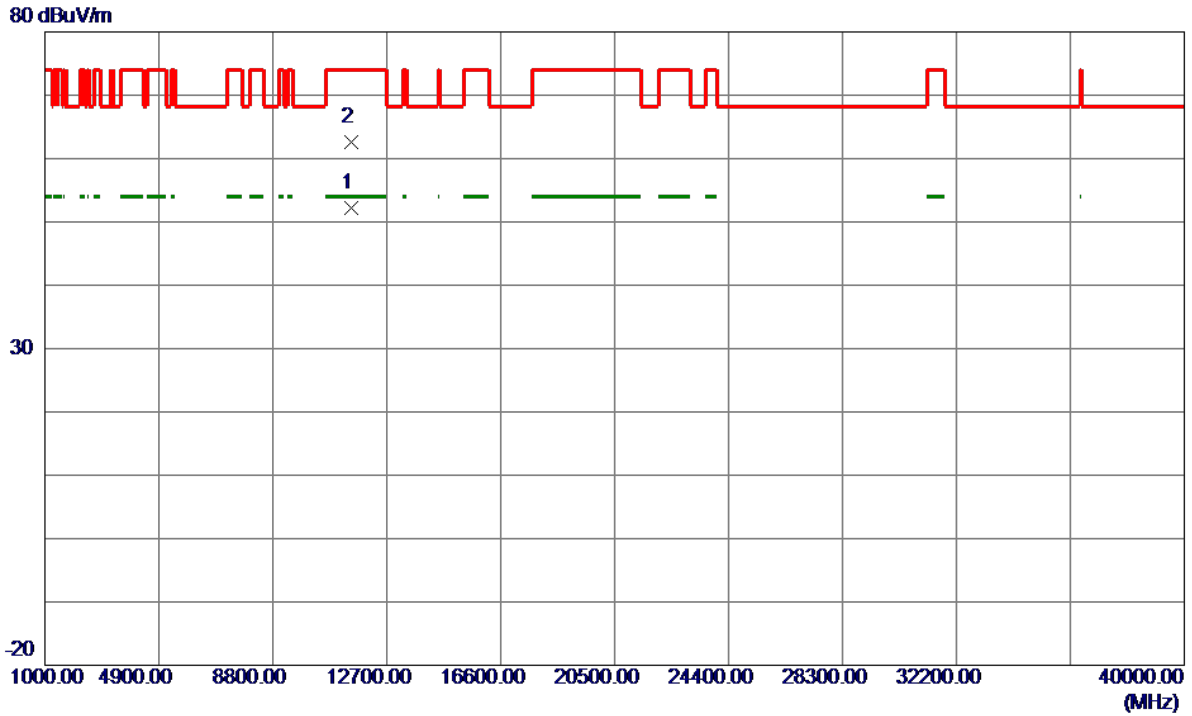
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	42.84	18.40	61.24	109.40	-48.16	Peak	
2	5725.0000	51.22	18.44	69.66	122.20	-52.54	Peak	
3 *	5742.5000	92.08	18.50	110.58	122.20	-11.62	Peak	

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

Vertical

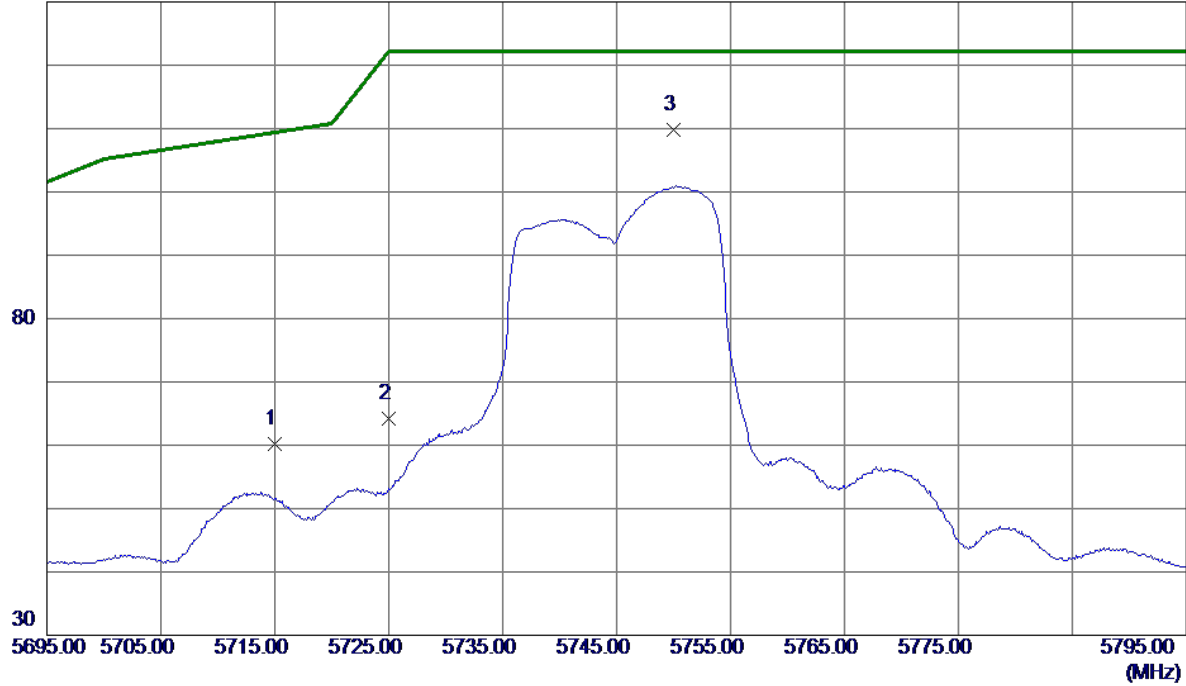


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11481.8800	31.12	21.17	52.29	54.00	-1.71	AVG	
2	11482.0800	41.48	21.17	62.65	74.00	-11.35	Peak	

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

Horizontal

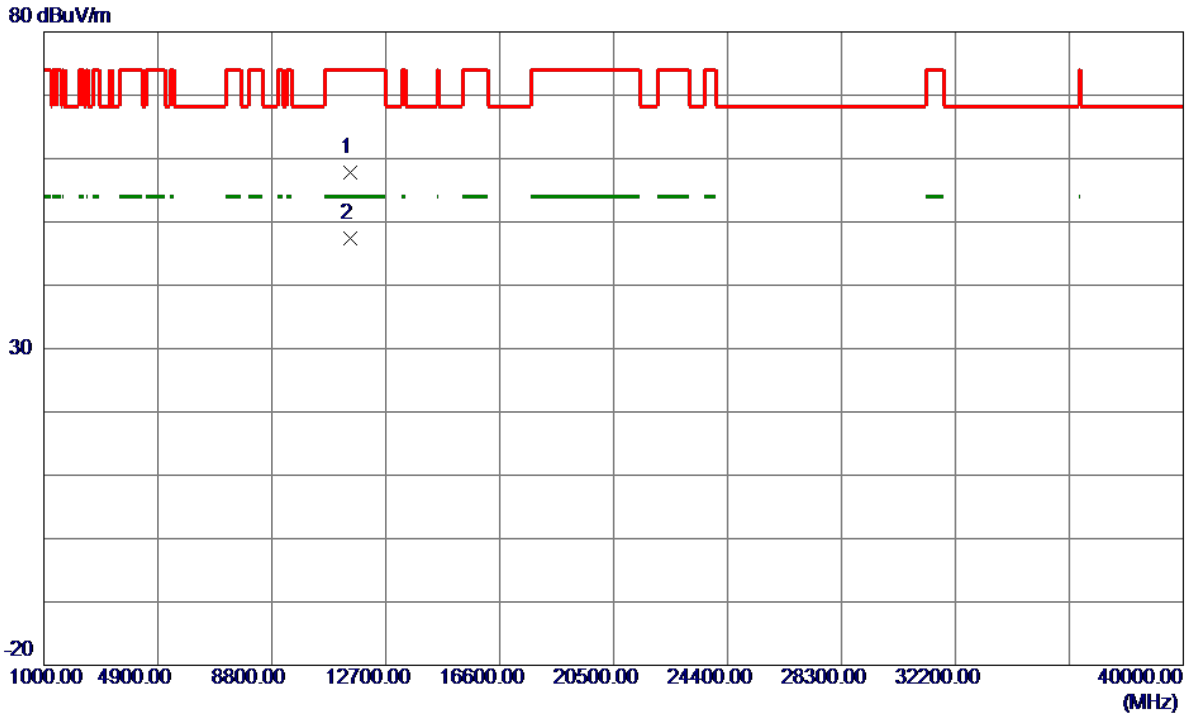
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	41.73	18.40	60.13	109.40	-49.27	Peak	
2	5725.0000	45.81	18.44	64.25	122.20	-57.95	Peak	
3 *	5750.0000	91.32	18.52	109.84	122.20	-12.36	Peak	

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

Horizontal

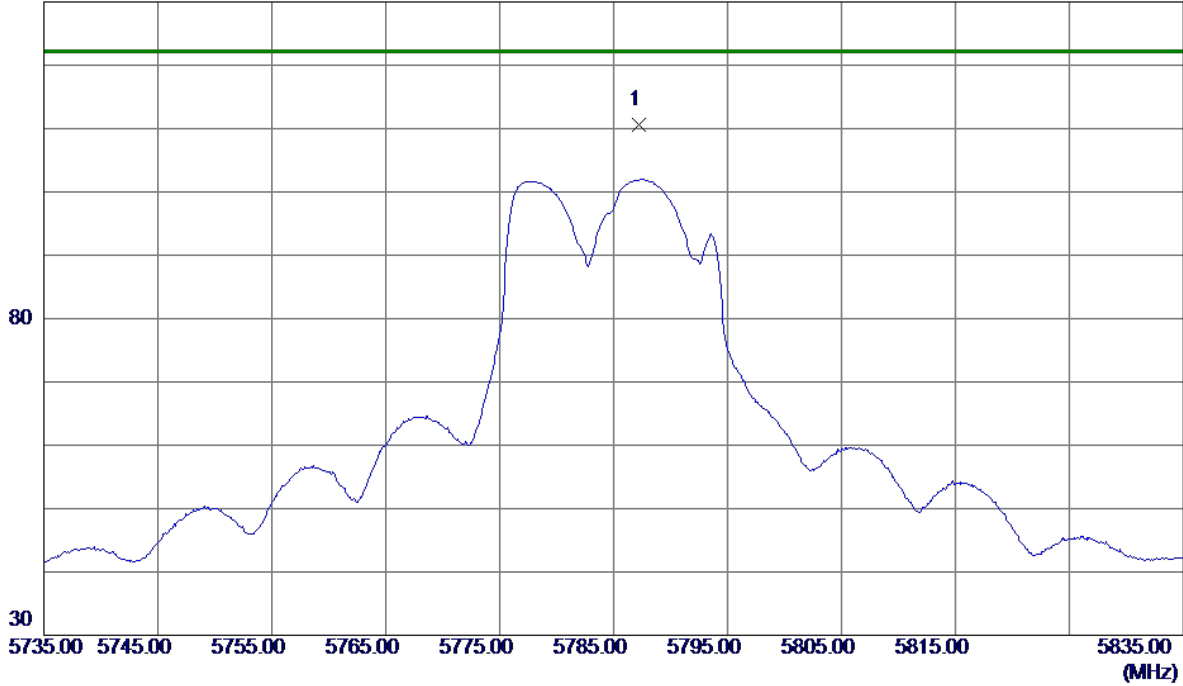


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11492.4000	36.55	21.18	57.73	74.00	-16.27	Peak	
2 *	11492.8000	26.15	21.18	47.33	54.00	-6.67	AVG	

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

Vertical

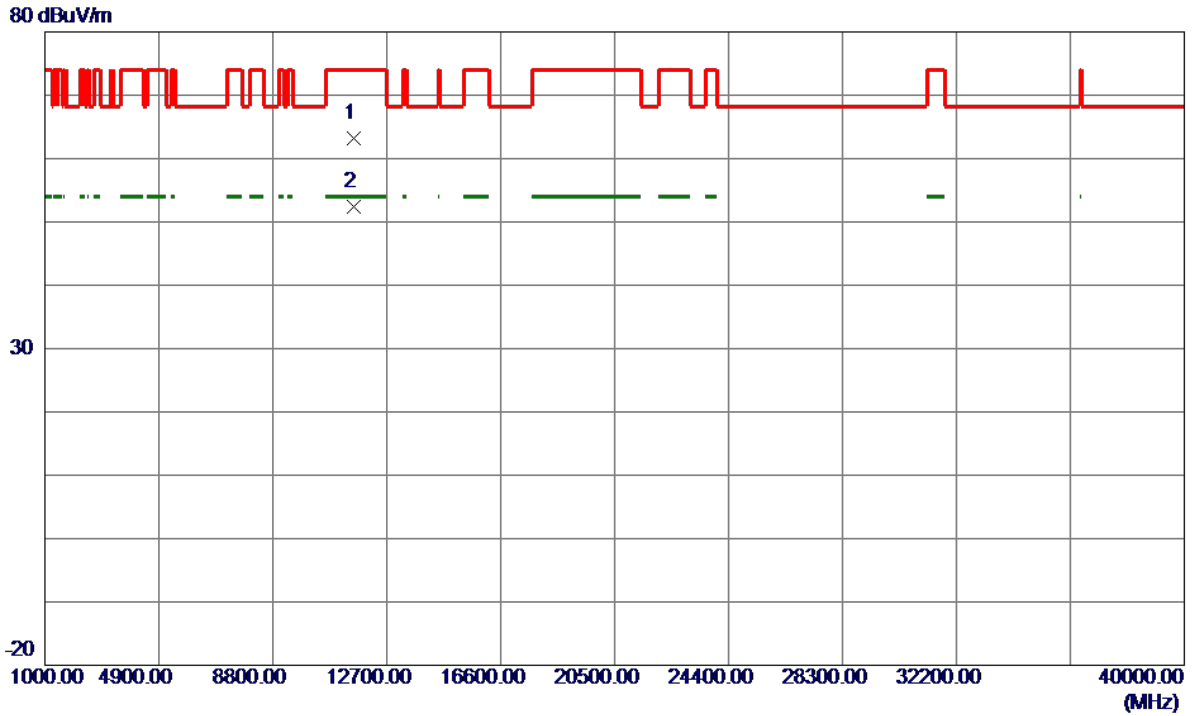
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5787.2000	91.97	18.66	110.63	122.20	-11.57	Peak	

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

Vertical

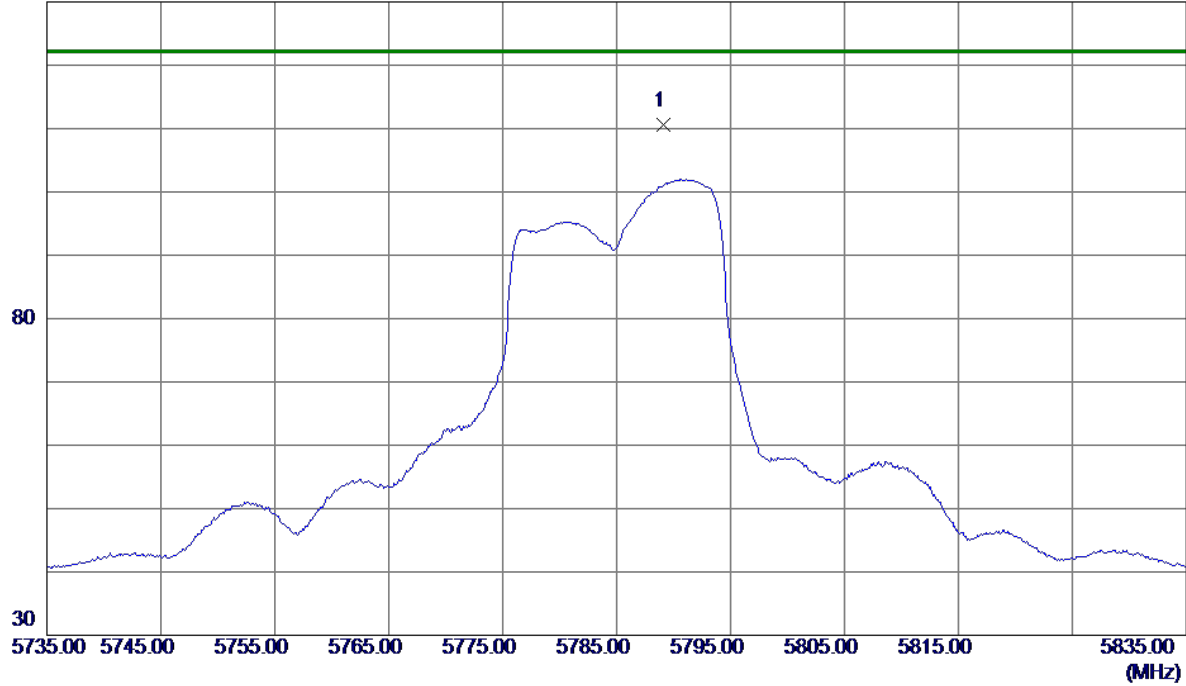


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11561.3600	42.02	21.22	63.24	74.00	-10.76	Peak	
2 *	11562.2000	31.11	21.22	52.33	54.00	-1.67	AVG	

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

Horizontal

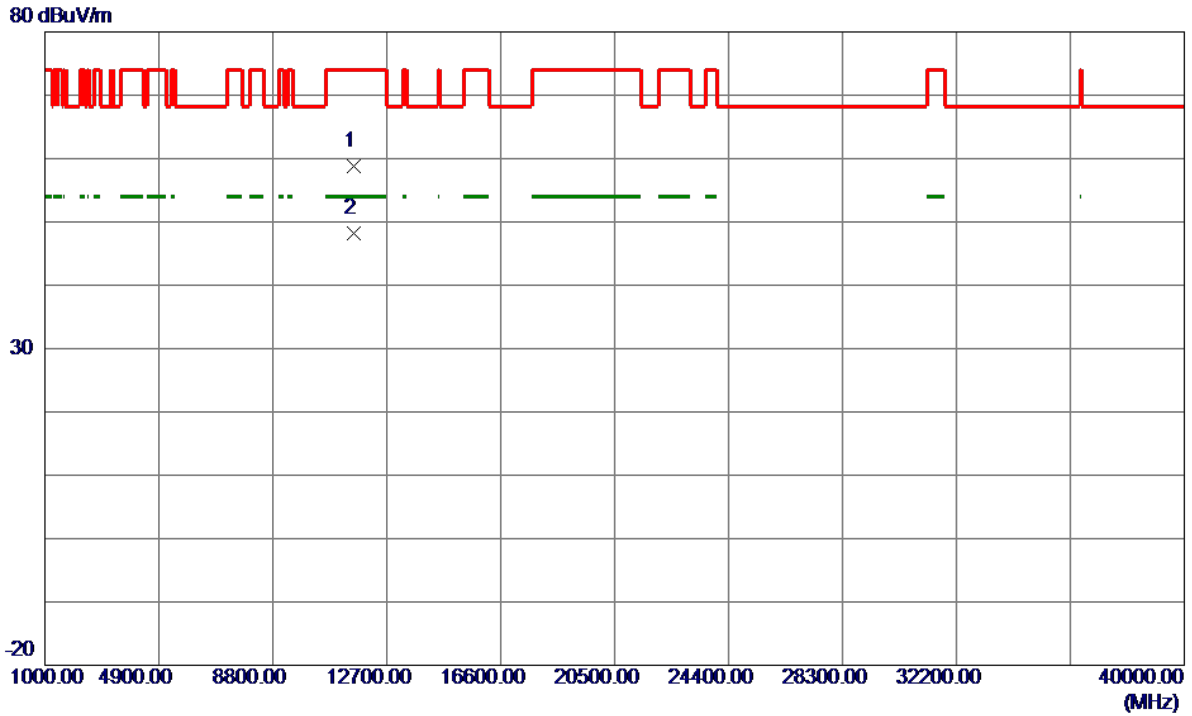
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5789.1000	91.84	18.66	110.50	122.20	-11.70	Peak	

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

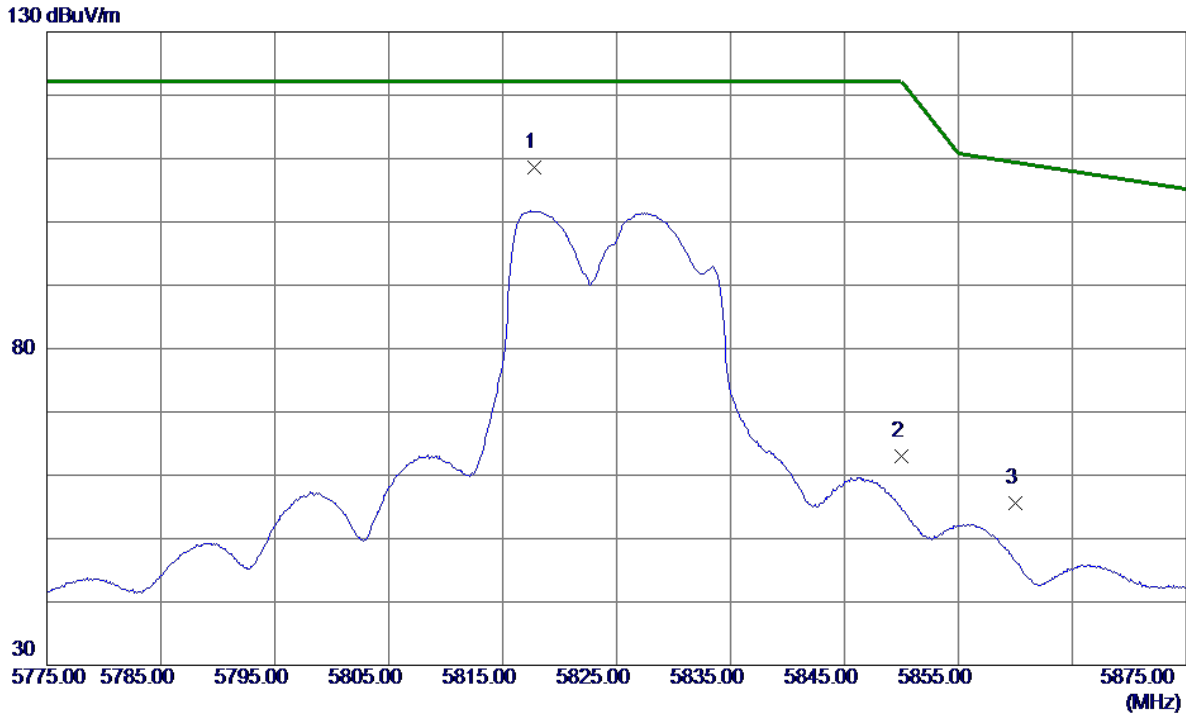
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11570.5599	37.55	21.22	58.77	74.00	-15.23	Peak	
2 *	11571.5599	26.96	21.22	48.18	54.00	-5.82	AVG	

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

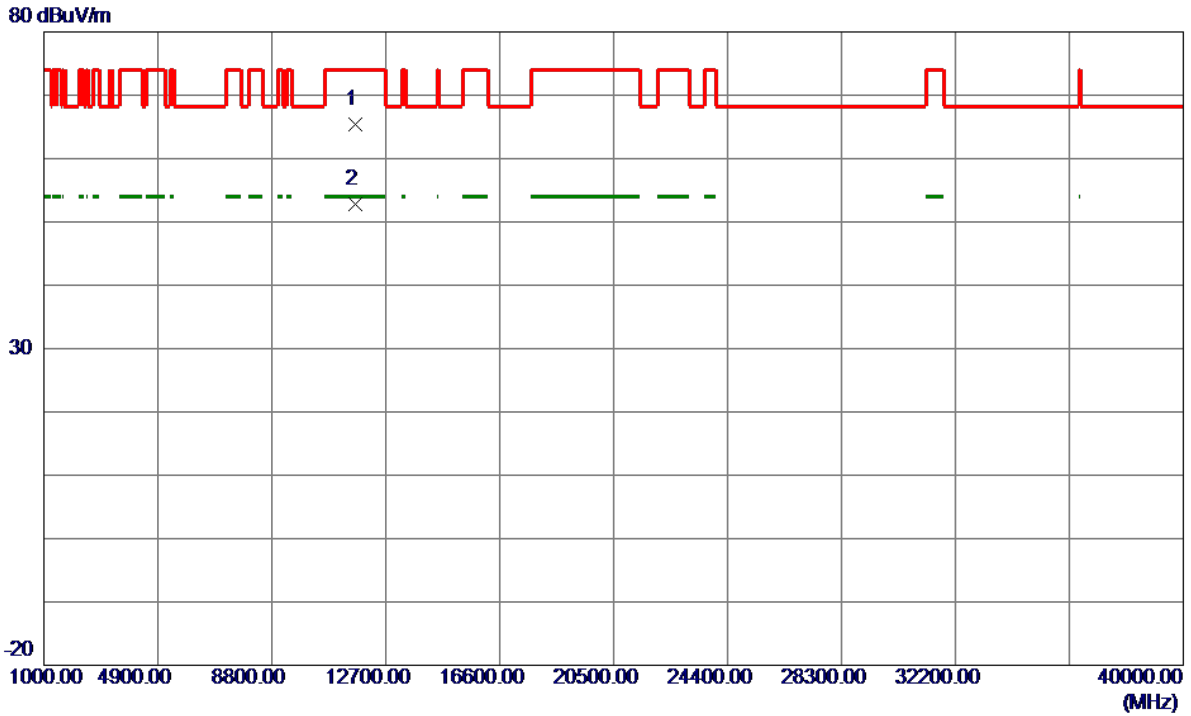
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5817.8000	89.90	18.76	108.66	122.20	-13.54	Peak	
2	5850.0000	44.19	18.88	63.07	122.20	-59.13	Peak	
3	5860.0000	36.73	18.91	55.64	109.40	-53.76	Peak	

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

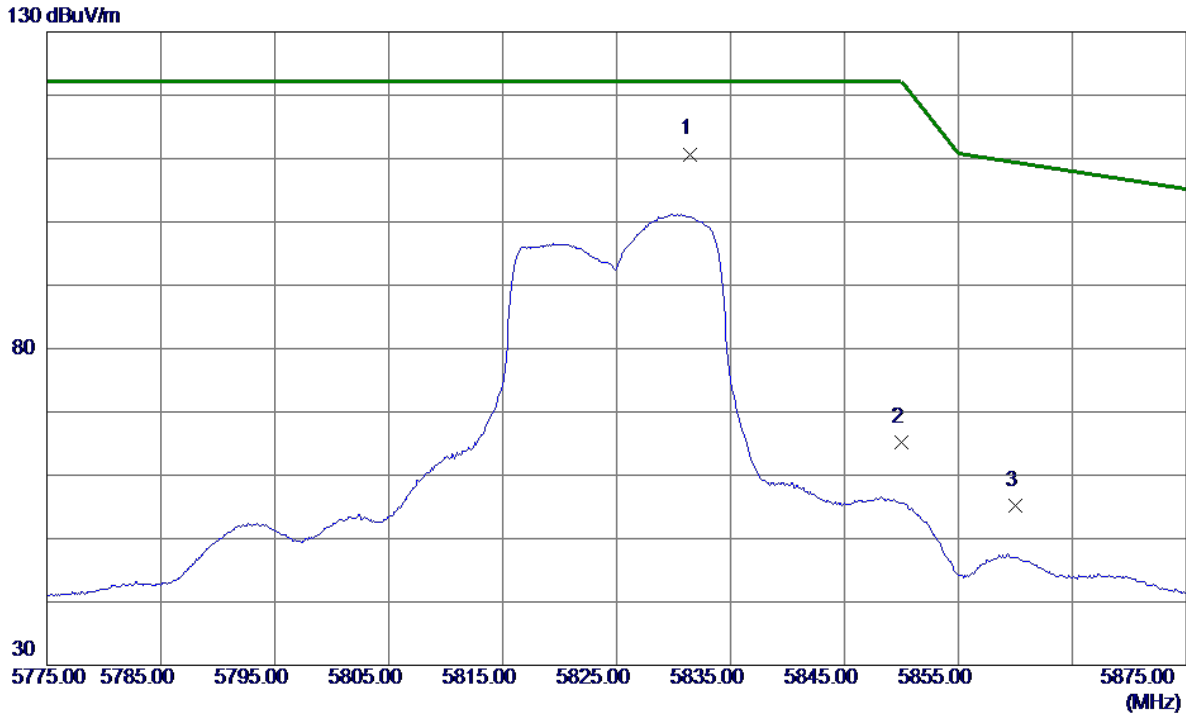
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11642.4000	44.10	21.26	65.36	74.00	-8.64	Peak	
2 *	11644.0400	31.48	21.26	52.74	54.00	-1.26	AVG	

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

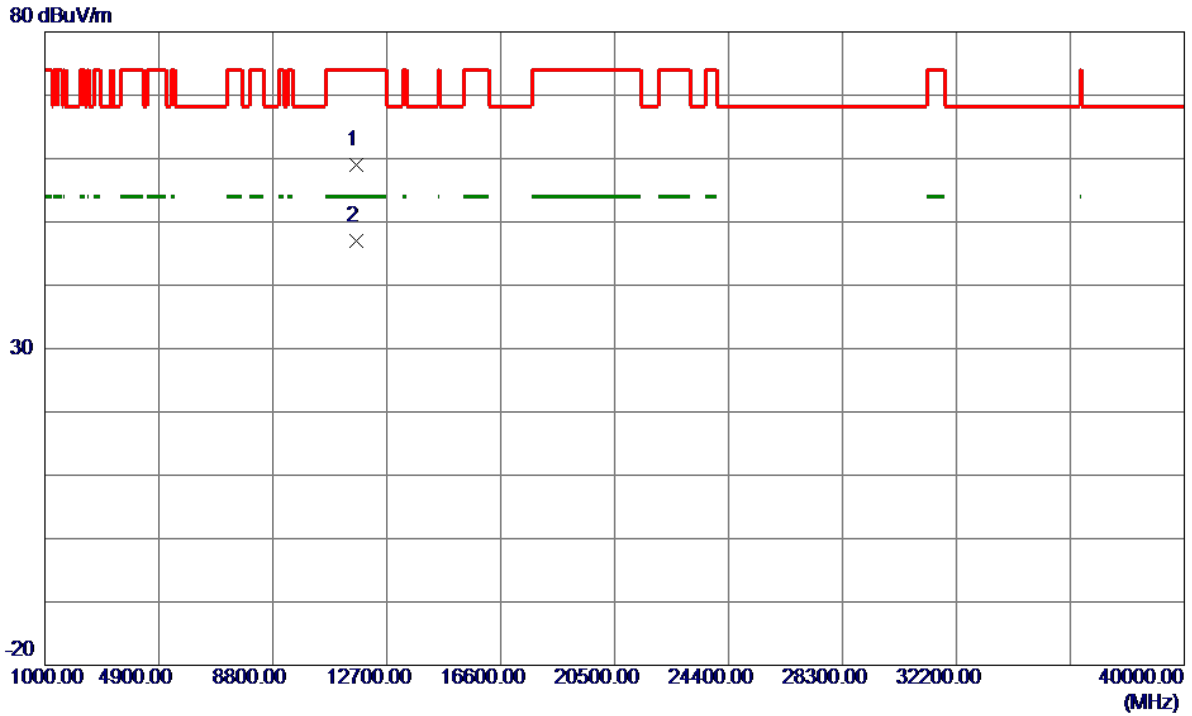
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5831.4000	91.89	18.81	110.70	122.20	-11.50	Peak	
2	5850.0000	46.34	18.88	65.22	122.20	-56.98	Peak	
3	5860.0000	36.33	18.91	55.24	109.40	-54.16	Peak	

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

Horizontal

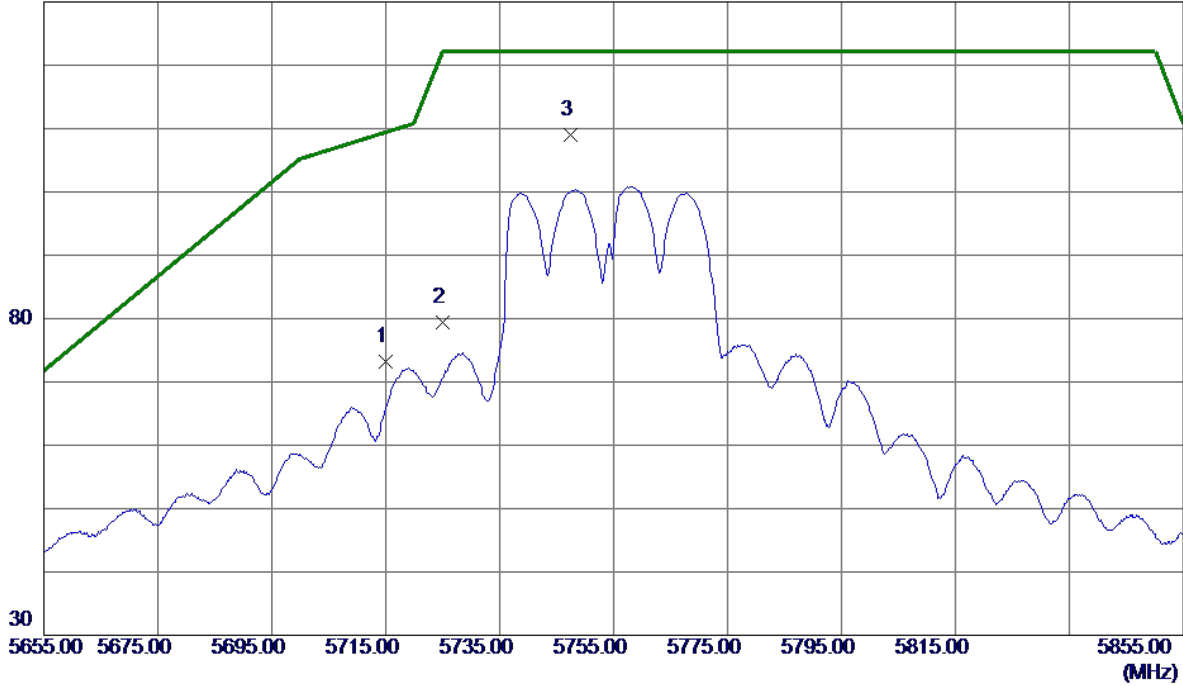


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11648.0400	37.76	21.27	59.03	74.00	-14.97	Peak	
2 *	11651.6400	25.65	21.27	46.92	54.00	-7.08	AVG	

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

Vertical

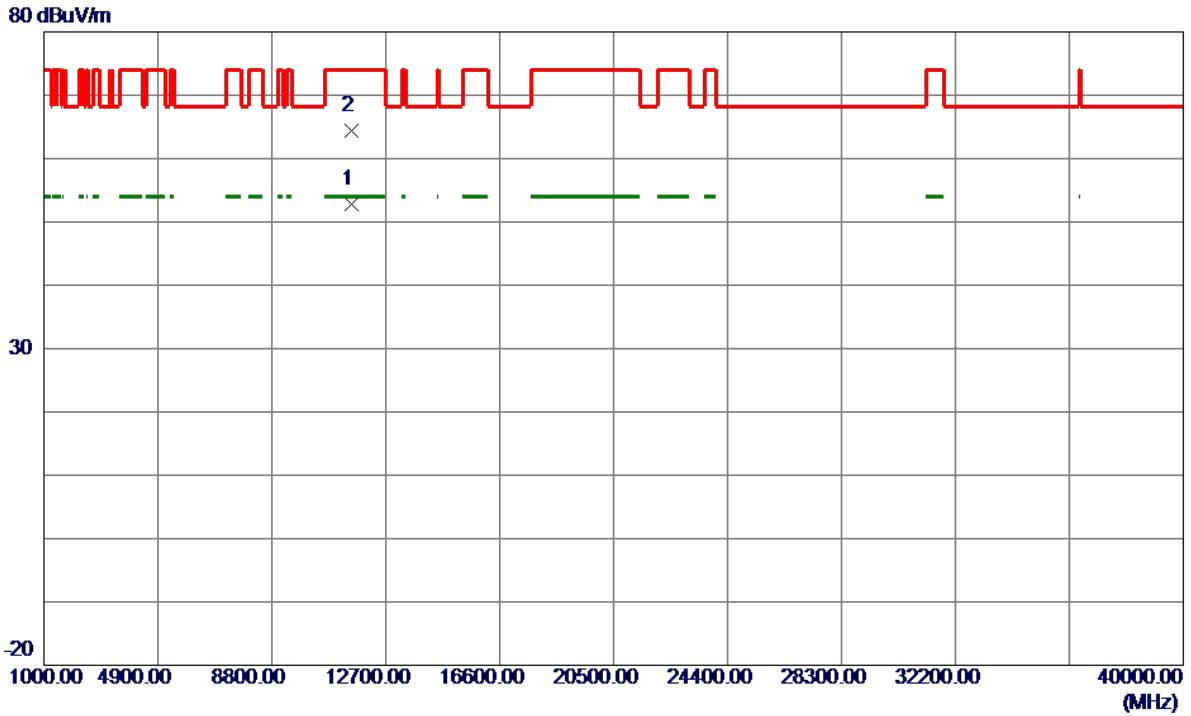
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	54.84	18.40	73.24	109.40	-36.16	Peak	
2	5725.0000	60.98	18.44	79.42	122.20	-42.78	Peak	
3 *	5747.4000	90.44	18.52	108.96	122.20	-13.24	Peak	

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

Vertical

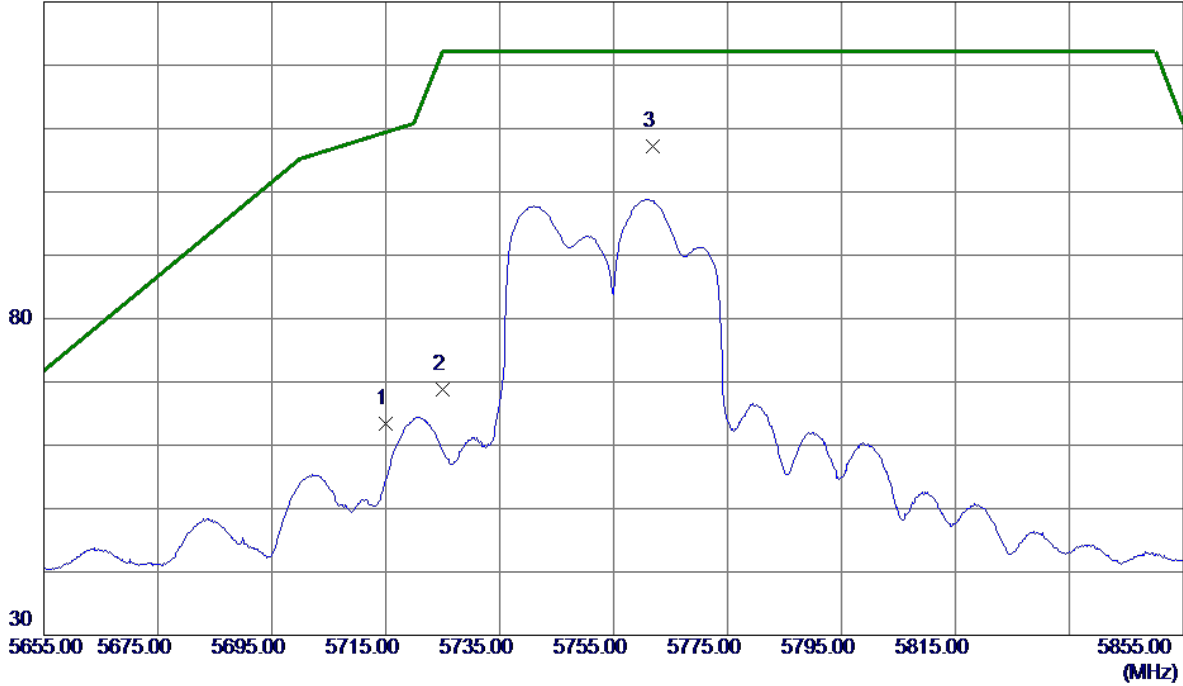


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11520.1600	31.52	21.20	52.72	54.00	-1.28	AVG	
2	11520.8800	43.26	21.20	64.46	74.00	-9.54	Peak	

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

Horizontal

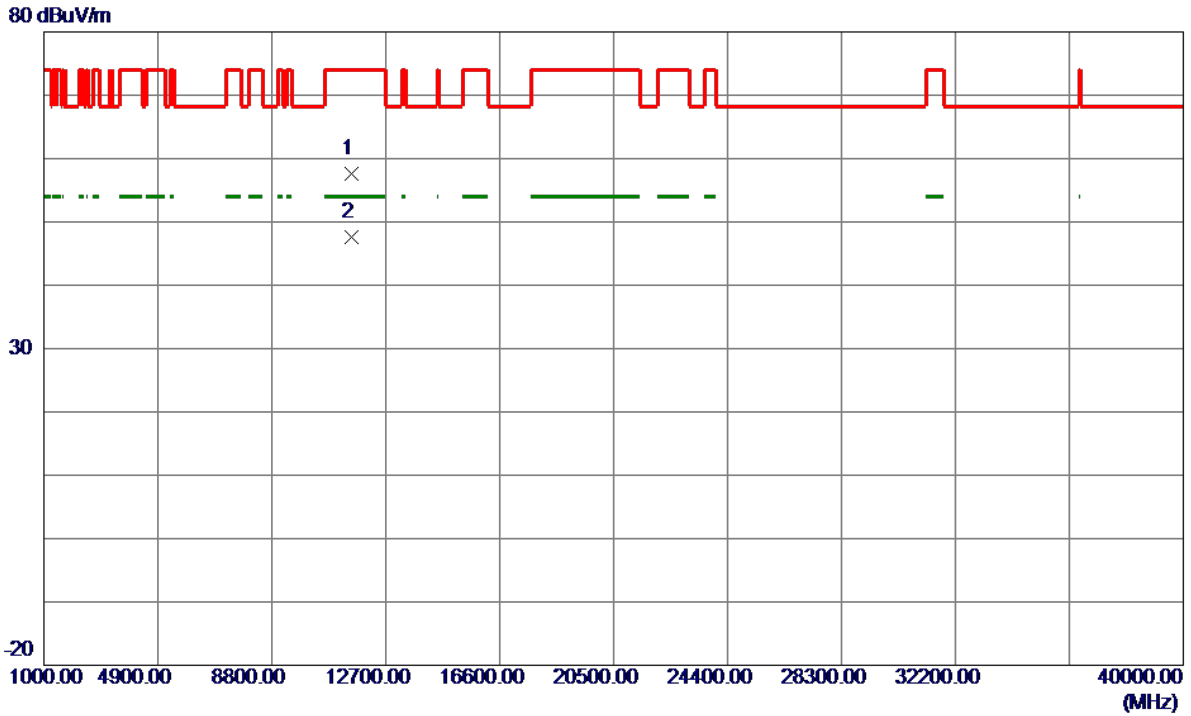
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	45.00	18.40	63.40	109.40	-46.00	Peak	
2	5725.0000	50.41	18.44	68.85	122.20	-53.35	Peak	
3 *	5761.8000	88.55	18.57	107.12	122.20	-15.08	Peak	

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

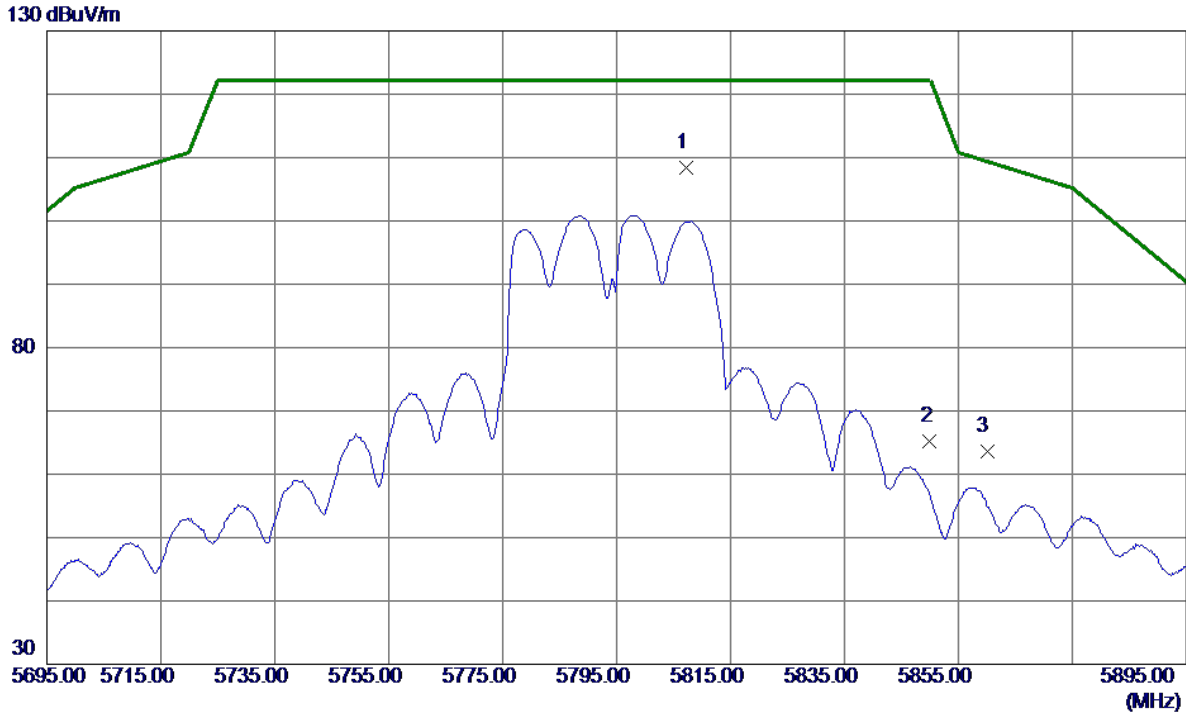
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11513.1200	36.36	21.19	57.55	74.00	-16.45	Peak	
2 *	11514.3200	26.33	21.19	47.52	54.00	-6.48	AVG	

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

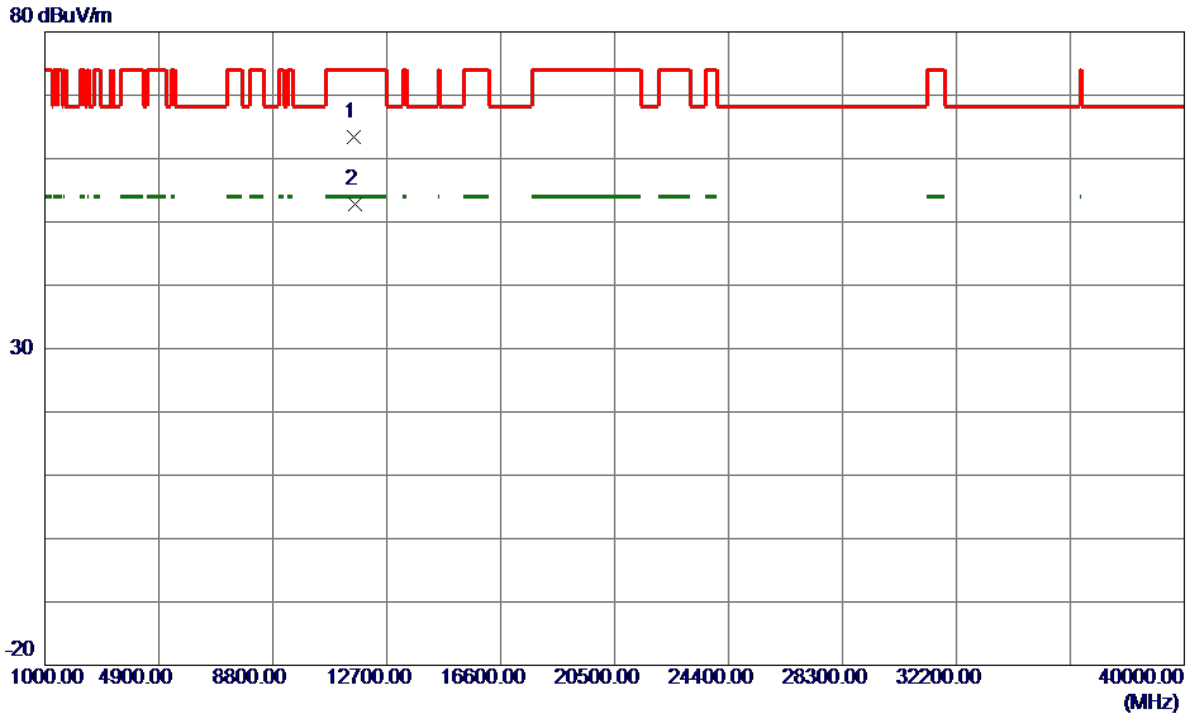
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5807.2000	89.60	18.73	108.33	122.20	-13.87	Peak	
2	5850.0000	46.36	18.88	65.24	122.20	-56.96	Peak	
3	5860.0000	44.77	18.91	63.68	109.40	-45.72	Peak	

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

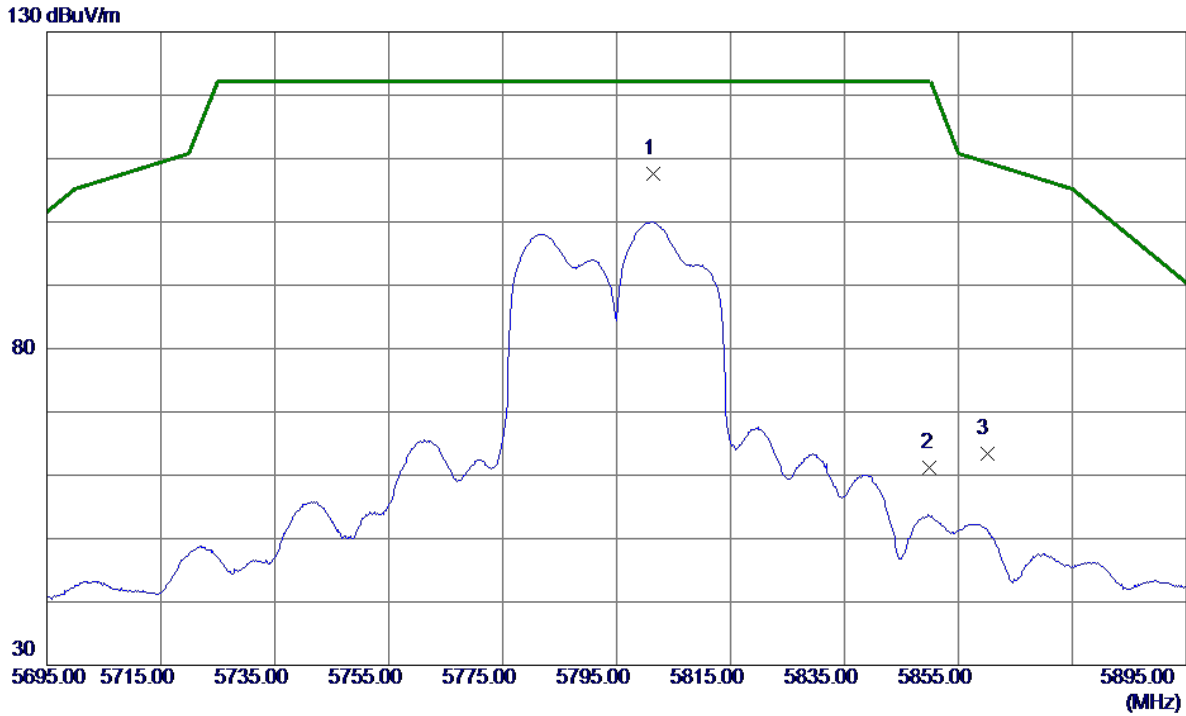
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11583.7600	42.26	21.23	63.49	74.00	-10.51	Peak	
2 *	11601.2000	31.54	21.24	52.78	54.00	-1.22	AVG	

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

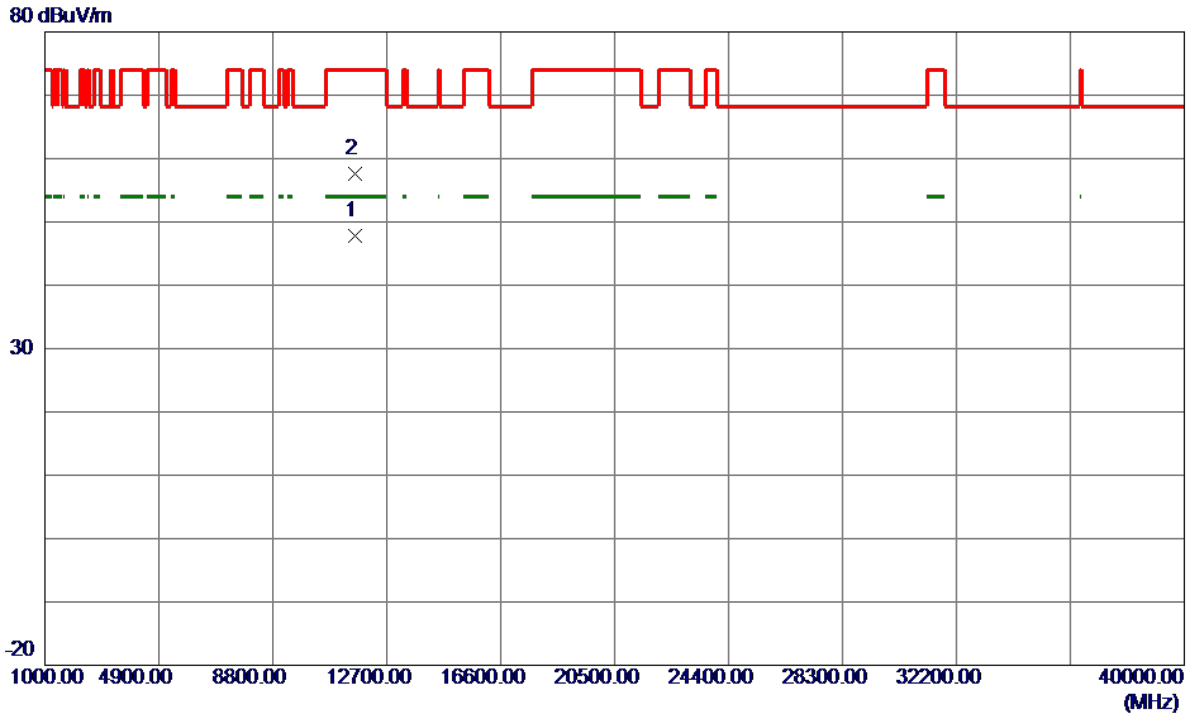
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5801.4000	88.98	18.71	107.69	122.20	-14.51	Peak	
2	5850.0000	42.23	18.88	61.11	122.20	-61.09	Peak	
3	5860.0000	44.41	18.91	63.32	109.40	-46.08	Peak	

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11596.4800	26.51	21.24	47.75	54.00	-6.25	AVG	
2	11598.4800	36.40	21.24	57.64	74.00	-16.36	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180 MHz

Vertical

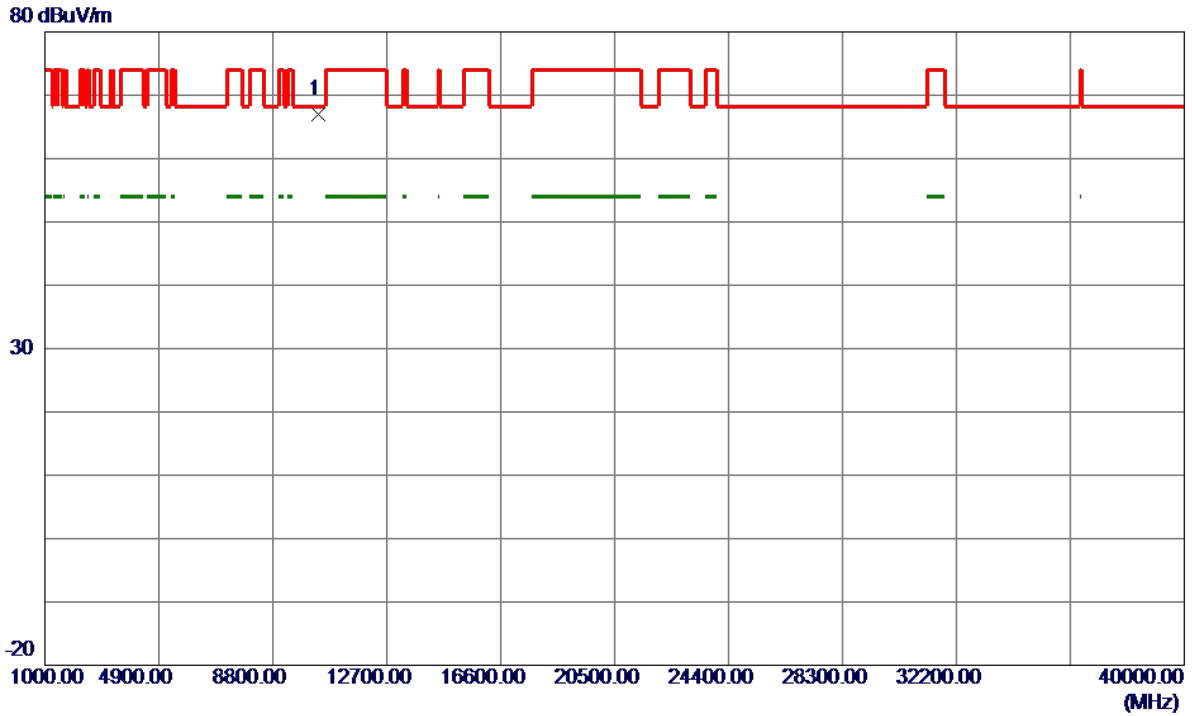
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	42.54	16.65	59.19	74.00	-14.81	Peak	
2	5150.0000	35.36	16.65	52.01	54.00	-1.99	AVG	
3	5171.9000	86.58	16.71	103.29	999.00	-895.71	AVG	No Limit
4 *	5172.7000	93.83	16.71	110.54	68.30	42.24	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180 MHz

Vertical

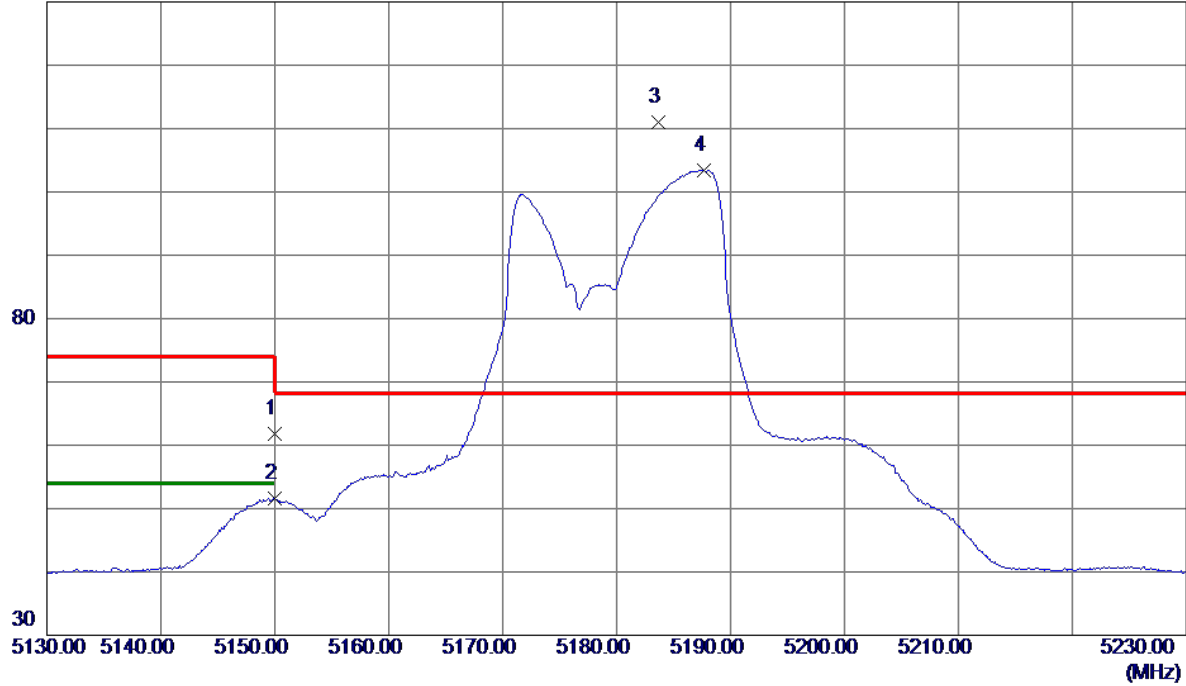


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10363.3000	46.72	20.28	67.00	68.30	-1.30	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180 MHz

Horizontal

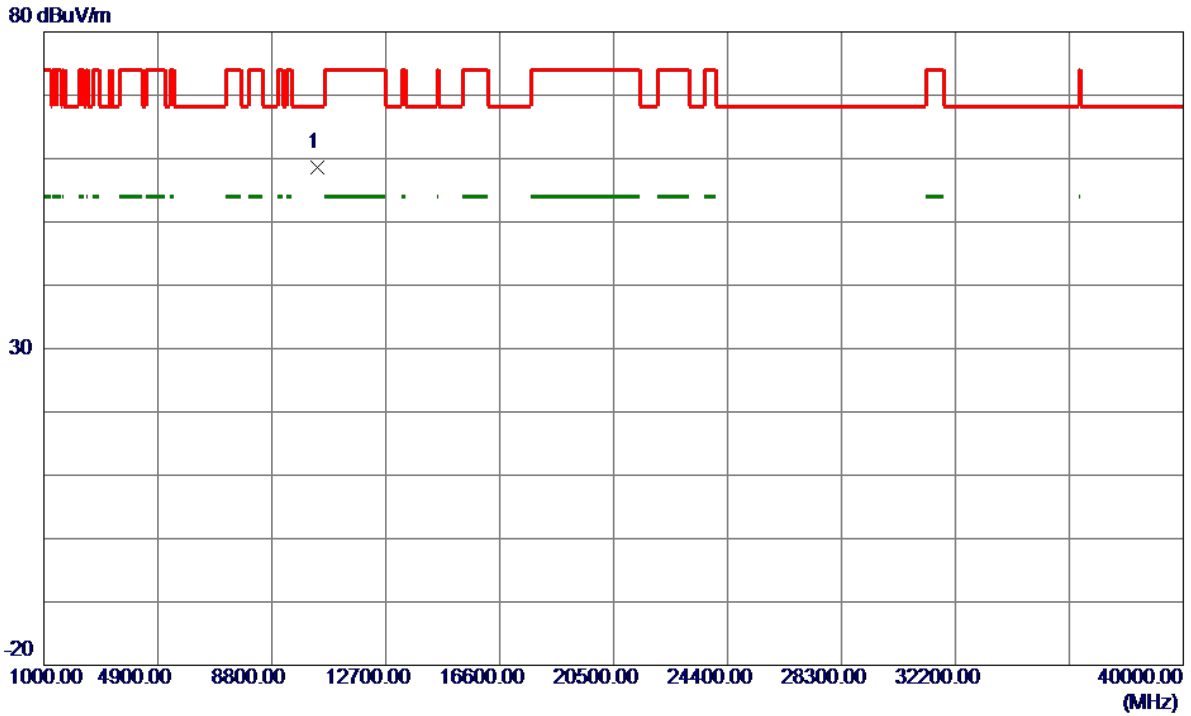
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	45.21	16.65	61.86	74.00	-12.14	Peak	
2	5150.0000	34.94	16.65	51.59	54.00	-2.41	AVG	
3 *	5183.7000	94.31	16.74	111.05	68.30	42.75	Peak	No Limit
4	5187.7000	86.63	16.75	103.38	999.00	-895.62	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180 MHz

Horizontal

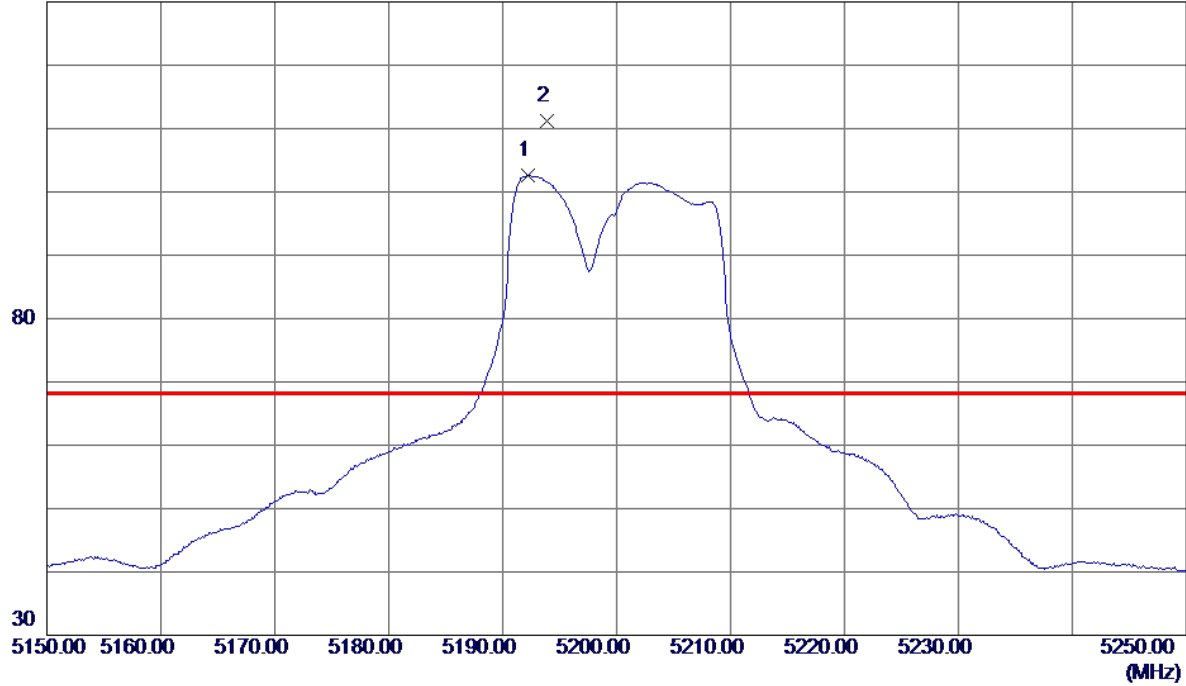


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10363.4500	38.25	20.28	58.53	68.30	-9.77	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200 MHz

Vertical

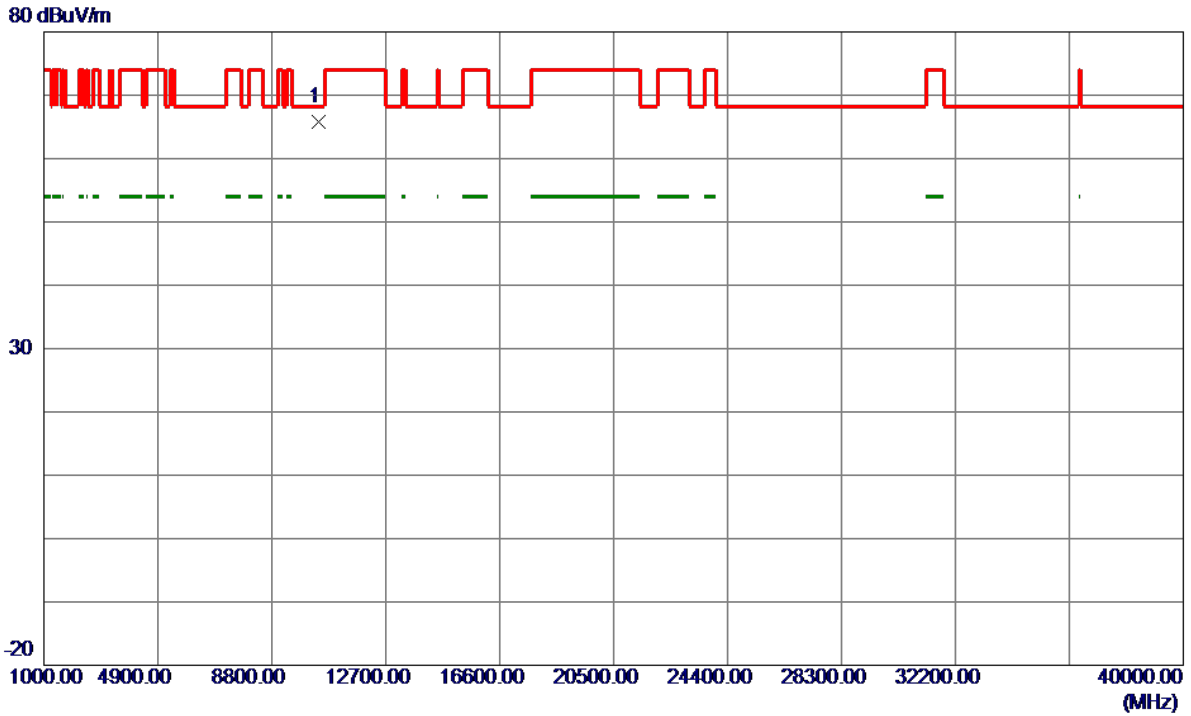
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5192.2000	85.88	16.77	102.65	999.00	-896.35	AVG	No Limit
2 *	5193.9000	94.44	16.77	111.21	68.30	42.91	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200 MHz

Vertical

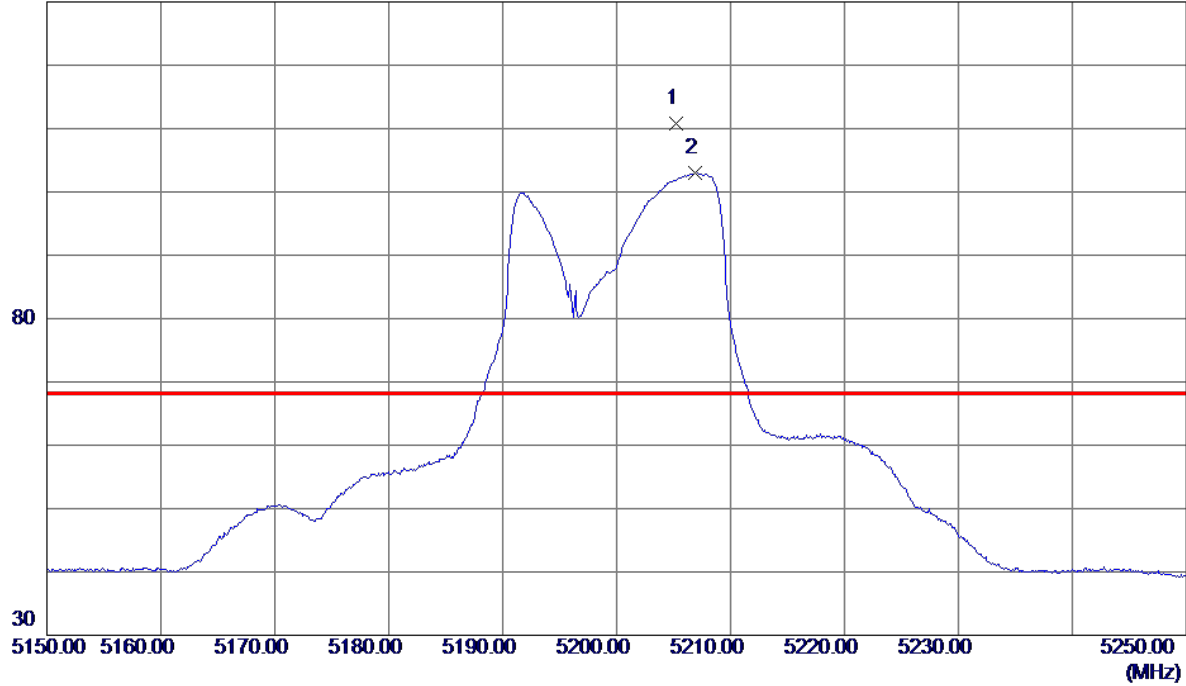


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10403.8500	45.54	20.34	65.88	68.30	-2.42	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200 MHz

Horizontal

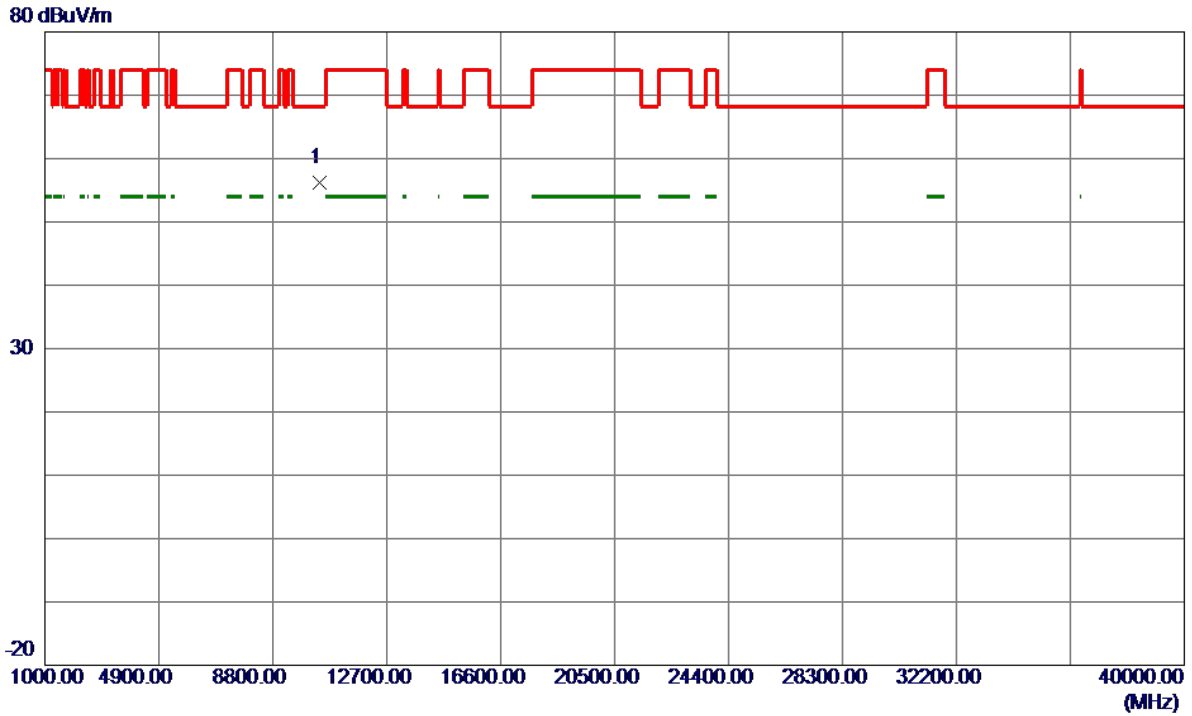
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5205.2000	93.97	16.80	110.77	68.30	42.47	Peak	No Limit
2	5206.9000	86.24	16.81	103.05	999.00	-895.95	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200 MHz

Horizontal

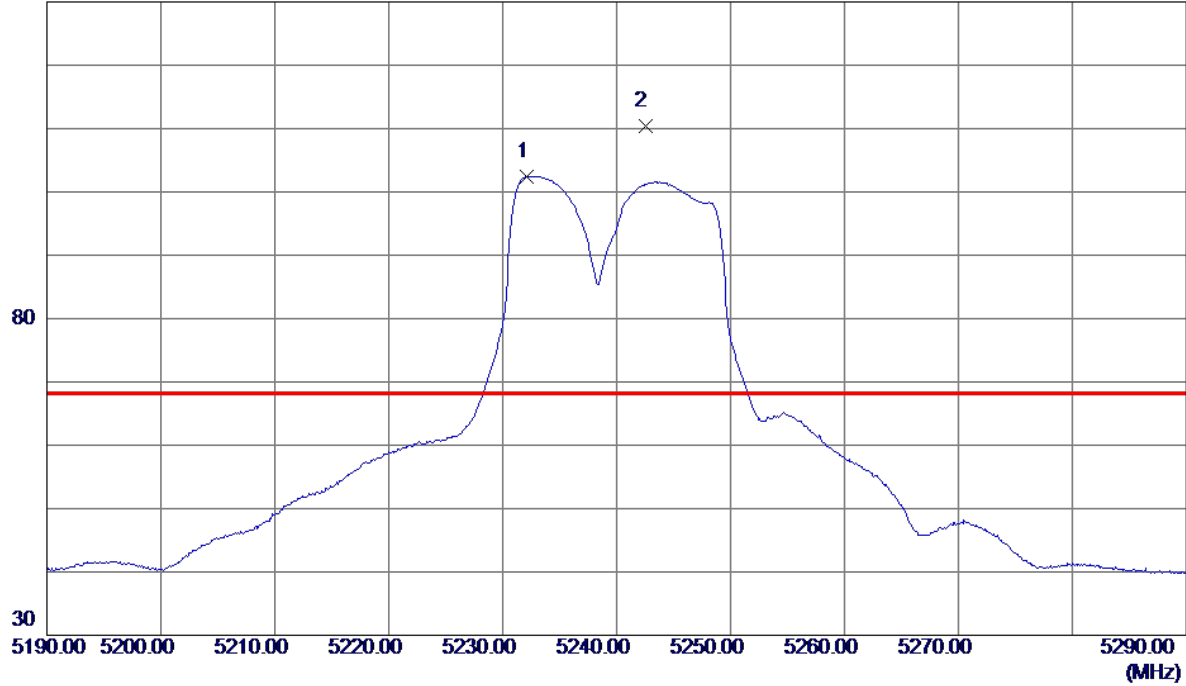


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10402.6000	35.83	20.34	56.17	68.30	-12.13	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240 MHz

Vertical

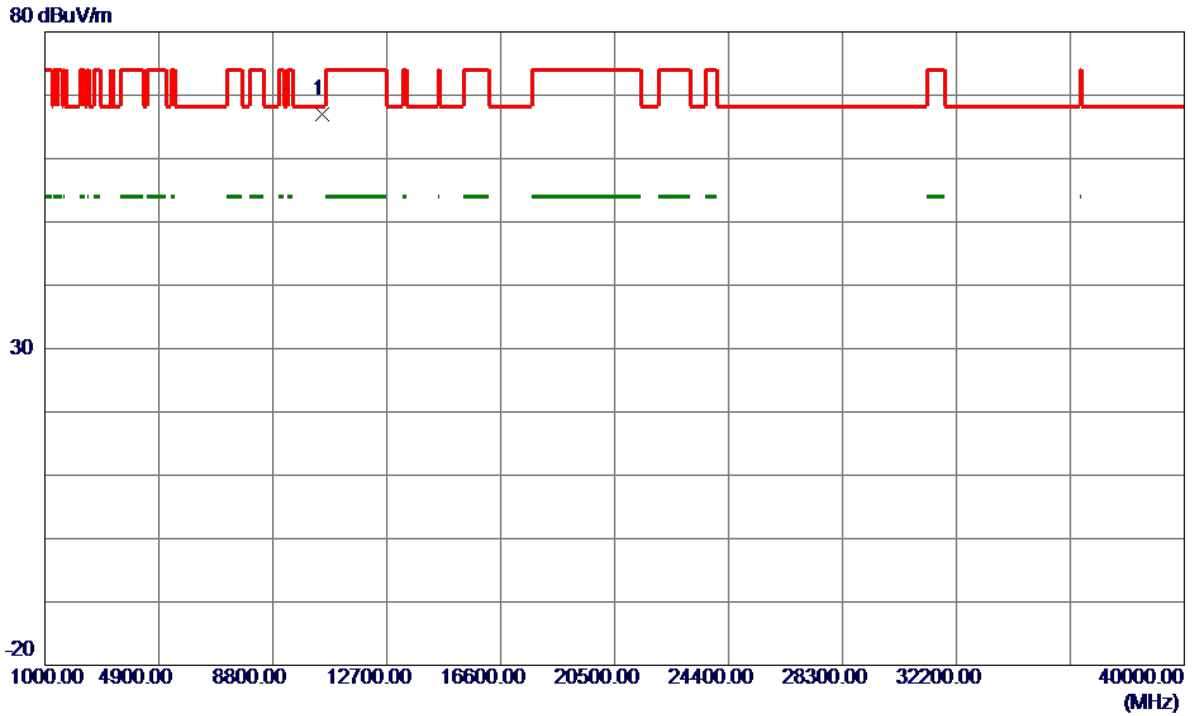
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5232.1000	85.60	16.88	102.48	999.00	-896.52	AVG	No Limit
2 *	5242.5000	93.47	16.91	110.38	68.30	42.08	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240 MHz

Vertical

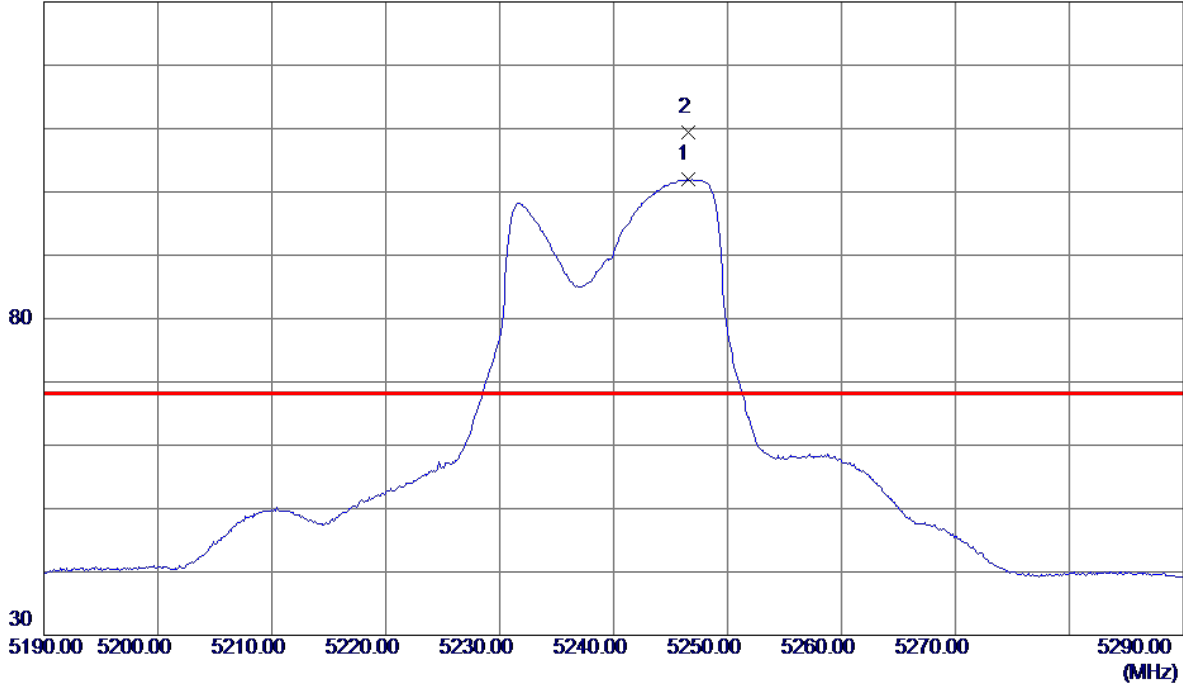


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10482.9000	46.60	20.44	67.04	68.30	-1.26	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240 MHz

Horizontal

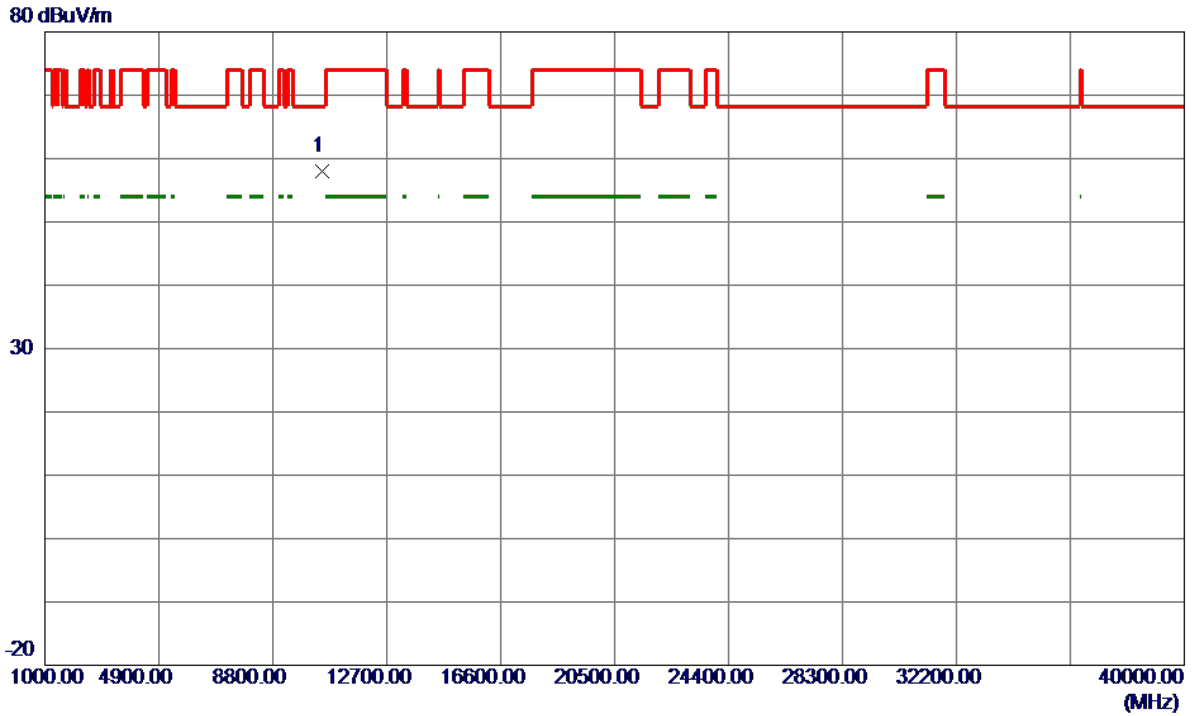
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5246.5000	85.01	16.92	101.93	999.00	-897.07	AVG	No Limit
2 *	5246.6000	92.48	16.92	109.40	68.30	41.10	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240 MHz

Horizontal

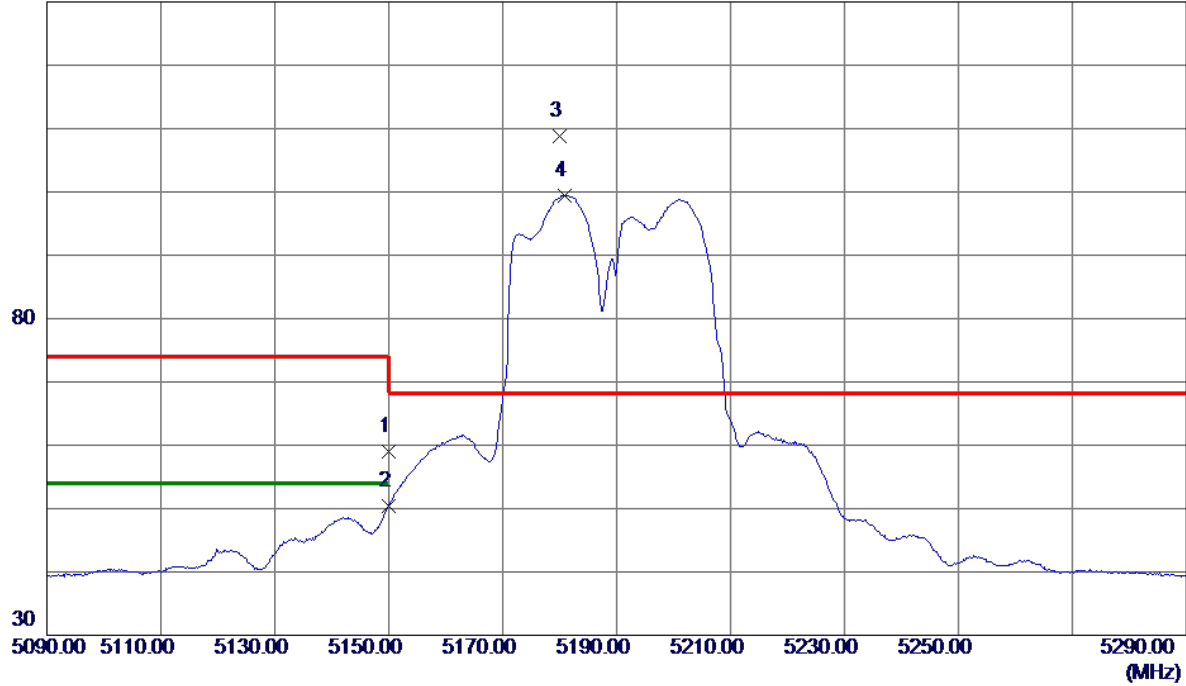


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10479.1000	37.56	20.44	58.00	68.30	-10.30	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

Vertical

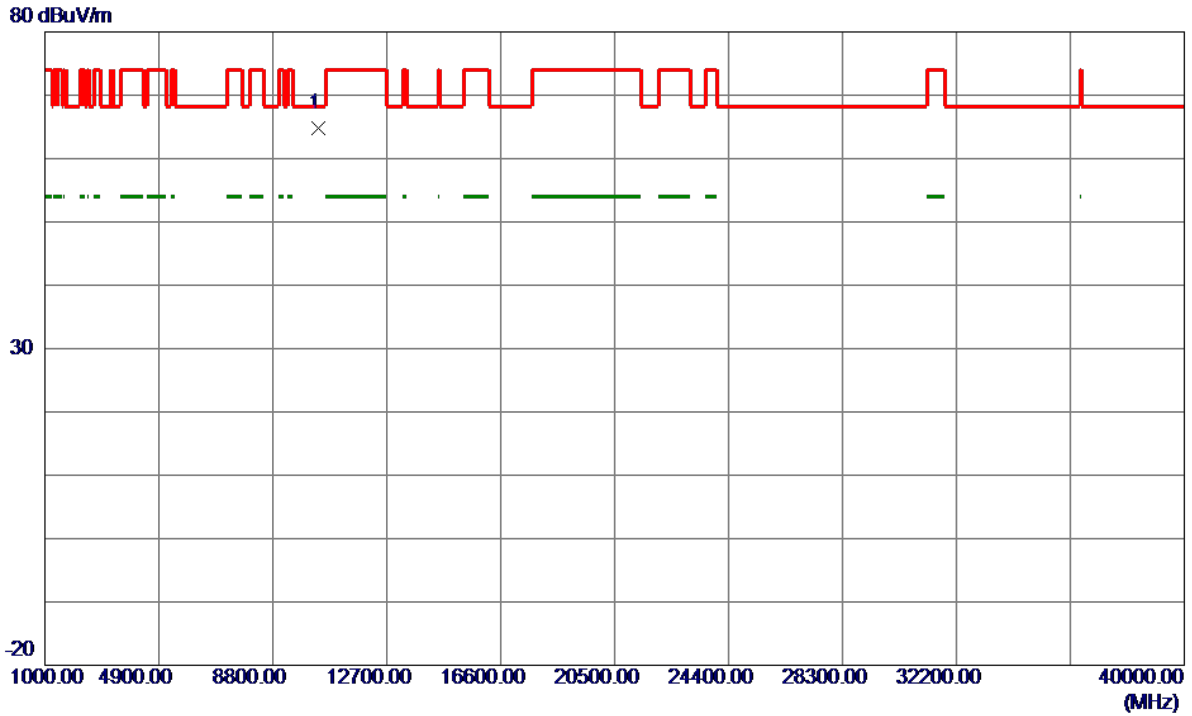
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	42.41	16.65	59.06	74.00	-14.94	Peak	
2	5150.0000	33.82	16.65	50.47	54.00	-3.53	AVG	
3 *	5180.0000	92.10	16.73	108.83	68.30	40.53	Peak	No Limit
4	5180.8000	82.73	16.73	99.46	999.00	-899.54	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

Vertical

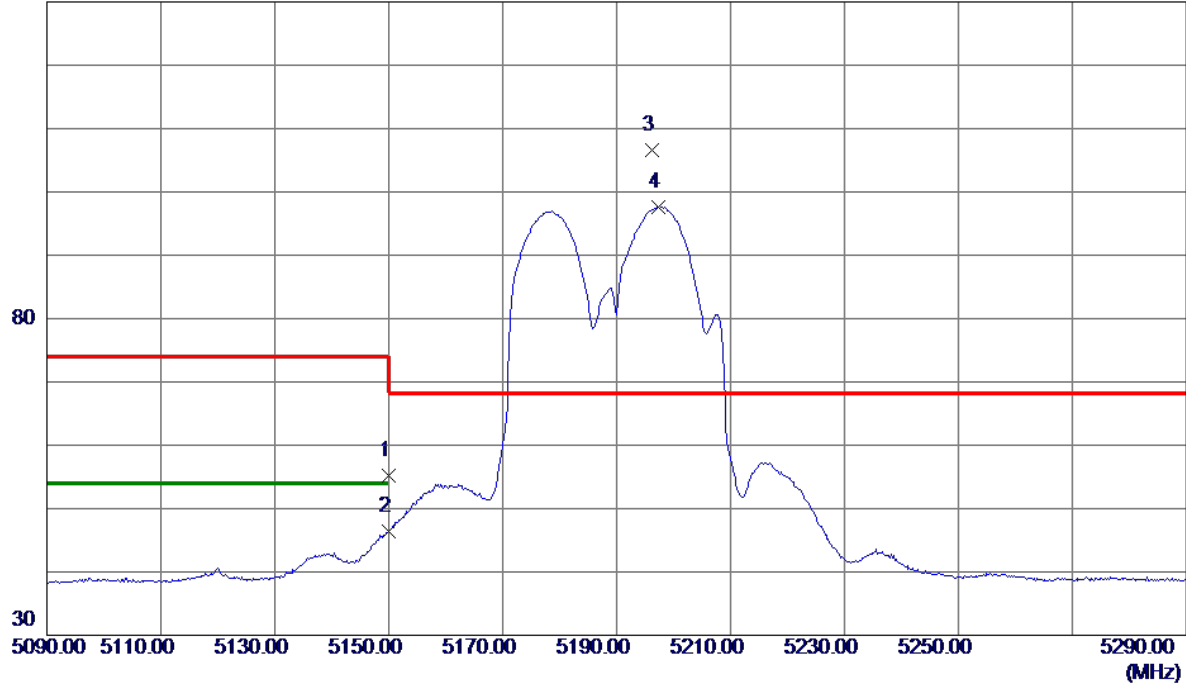


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10380.0599	44.49	20.31	64.80	68.30	-3.50	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

Horizontal

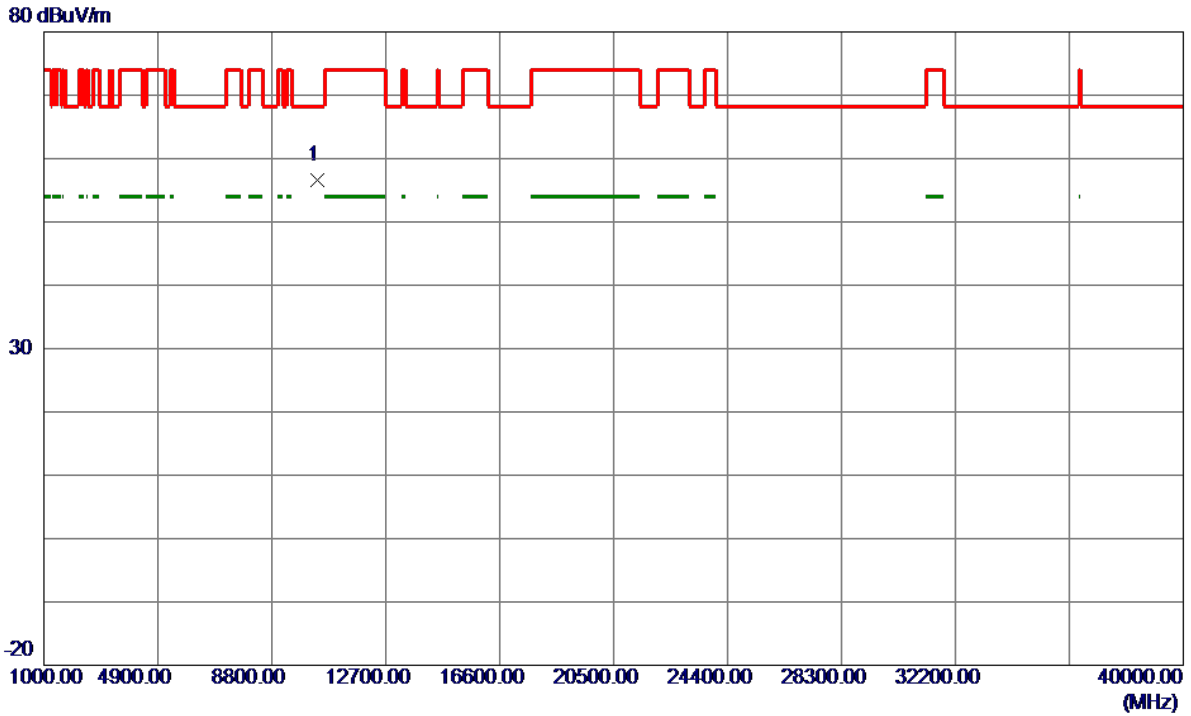
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	38.56	16.65	55.21	74.00	-18.79	Peak	
2	5150.0000	29.69	16.65	46.34	54.00	-7.66	AVG	
3 *	5196.2000	89.86	16.78	106.64	68.30	38.34	Peak	No Limit
4	5197.4000	80.75	16.78	97.53	999.00	-901.47	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

Horizontal

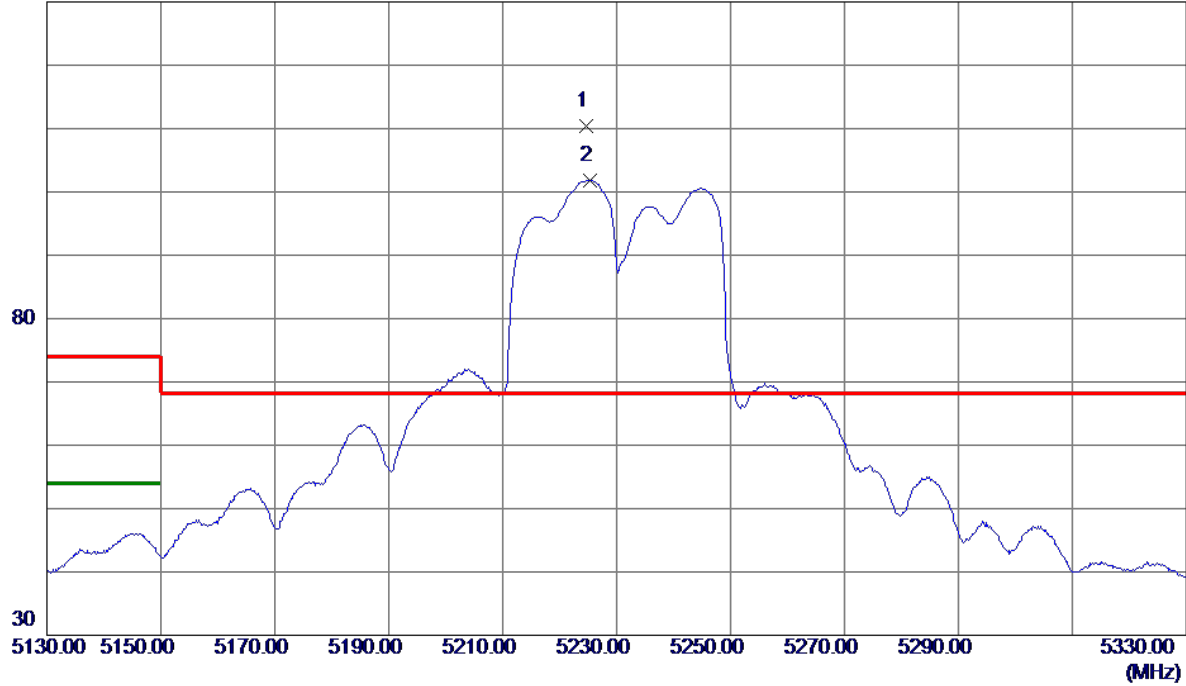


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10363.5599	36.25	20.28	56.53	68.30	-11.77	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

Vertical

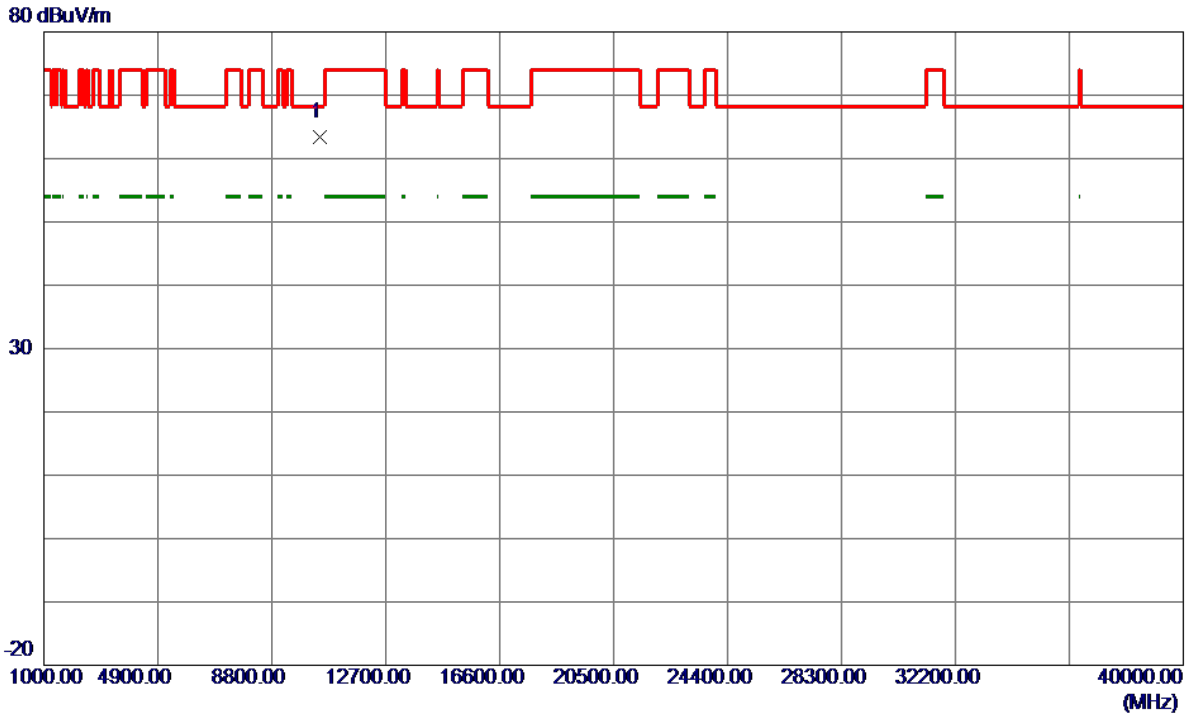
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5224.6000	93.60	16.86	110.46	68.30	42.16	Peak	No Limit
2	5225.4000	85.00	16.86	101.86	999.00	-897.14	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

Vertical

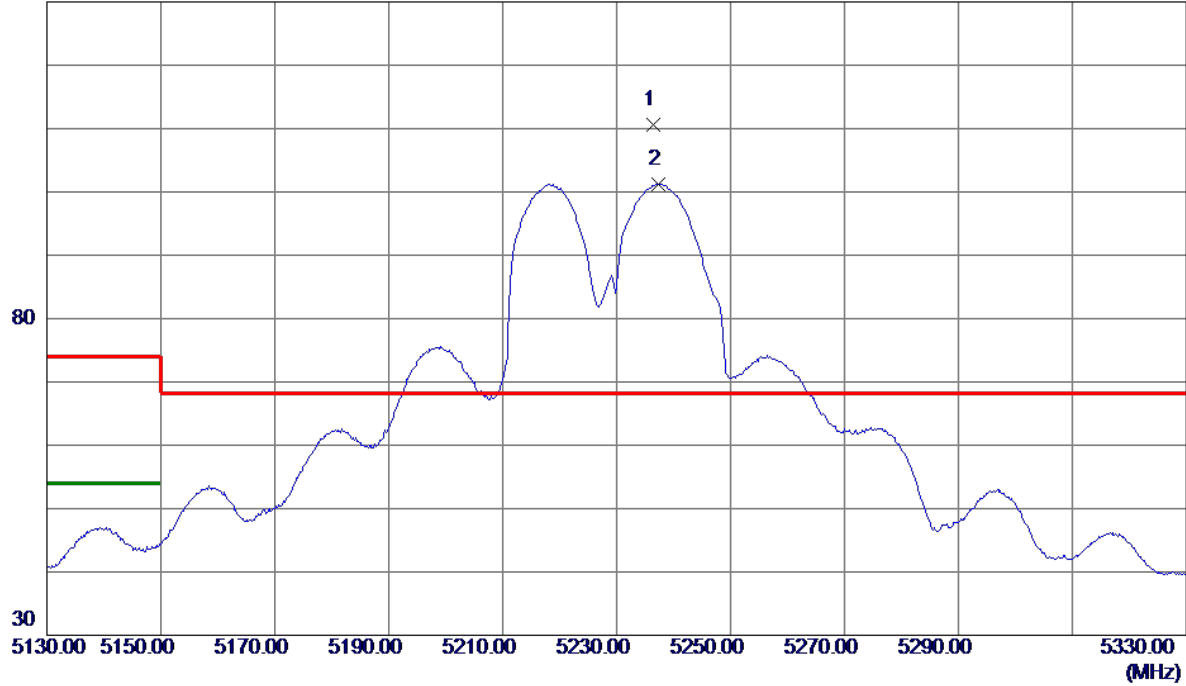


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10453.7000	42.96	20.40	63.36	68.30	-4.94	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

Horizontal

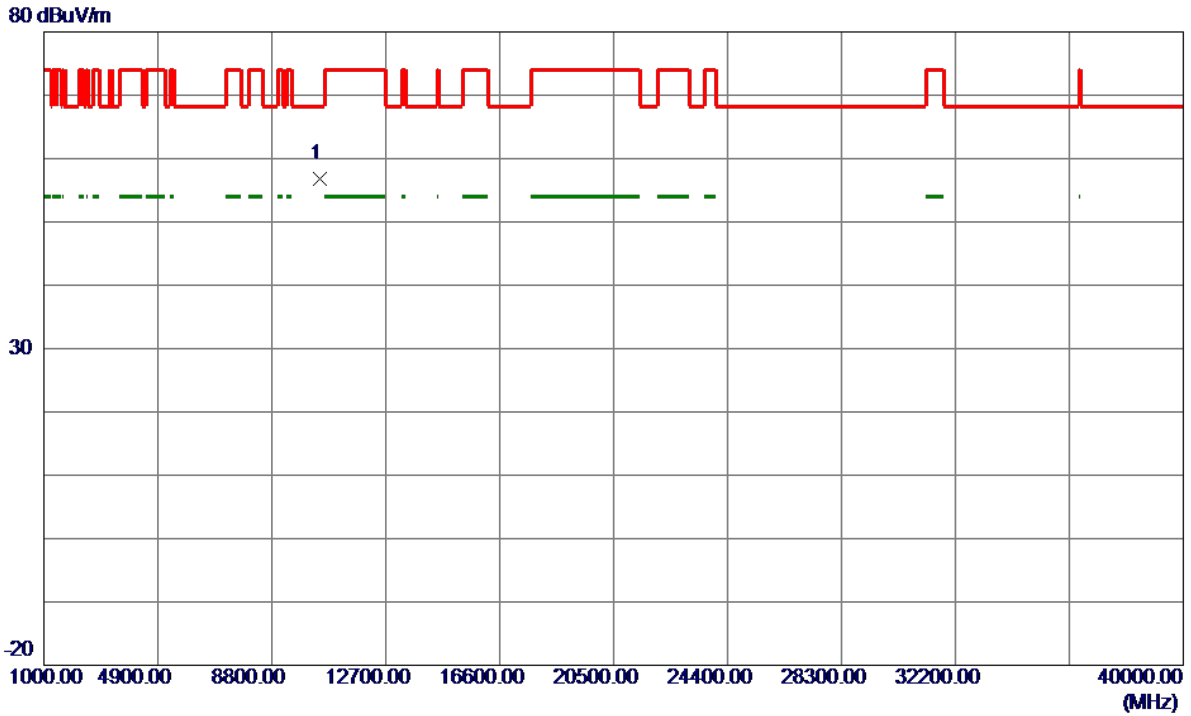
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5236.4000	93.66	16.89	110.55	68.30	42.25	Peak	No Limit
2	5237.4000	84.35	16.89	101.24	999.00	-897.76	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10461.2600	36.48	20.41	56.89	68.30	-11.41	Peak	

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

Vertical

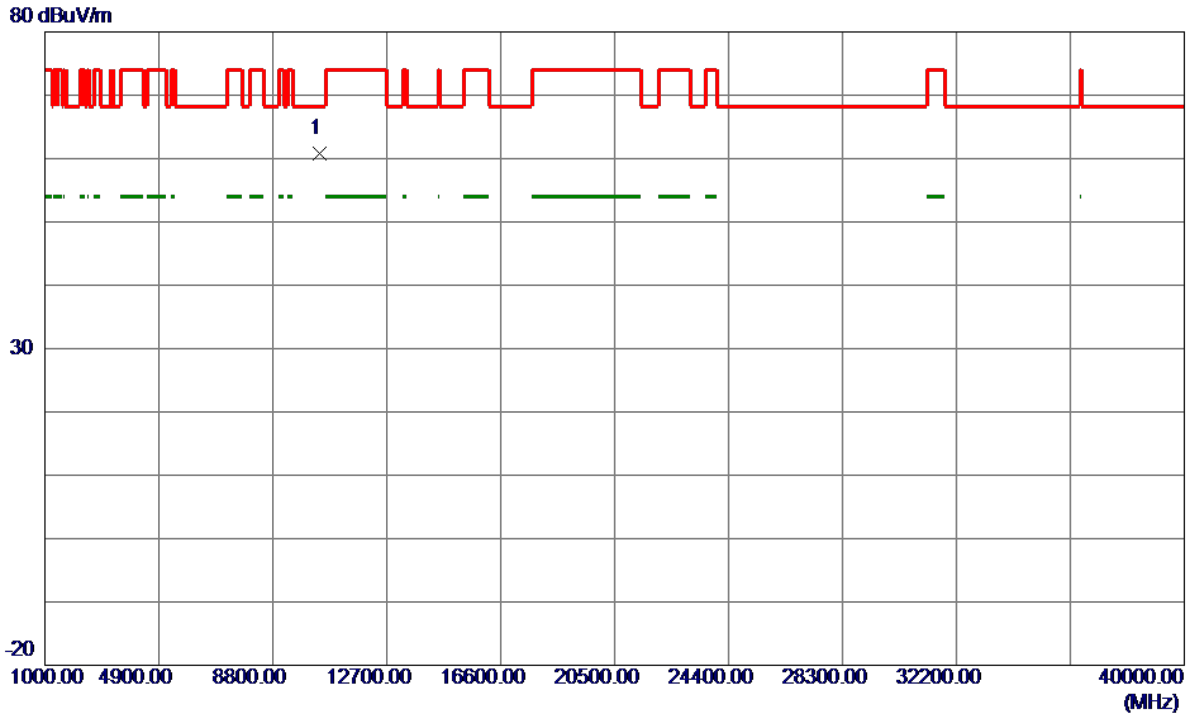
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5142.8000	46.91	16.63	63.54	74.00	-10.46	Peak	
2	5142.8000	36.85	16.63	53.48	54.00	-0.52	AVG	
3	5150.0000	40.46	16.65	57.11	74.00	-16.89	Peak	
4	5150.0000	33.20	16.65	49.85	54.00	-4.15	AVG	
5 *	5221.6000	85.04	16.85	101.89	68.30	33.59	Peak	No Limit
6	5222.4000	77.88	16.85	94.73	999.00	-904.27	AVG	No Limit

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

Vertical

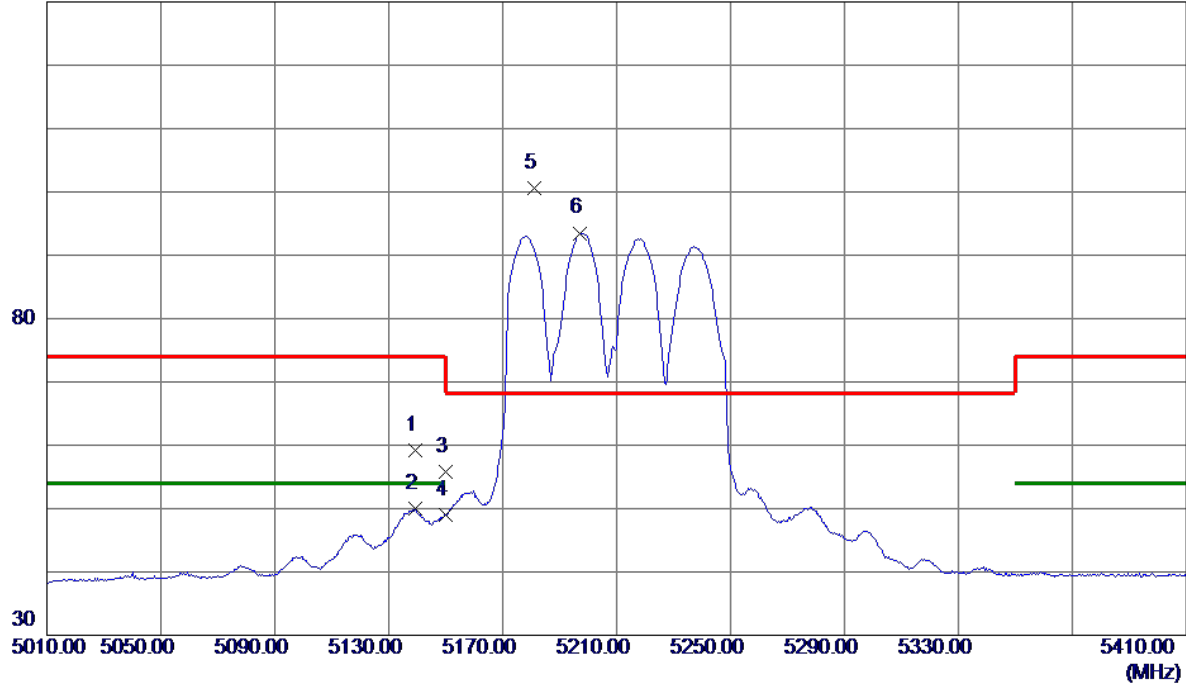


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10407.6000	40.38	20.34	60.72	68.30	-7.58	Peak	

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

Horizontal

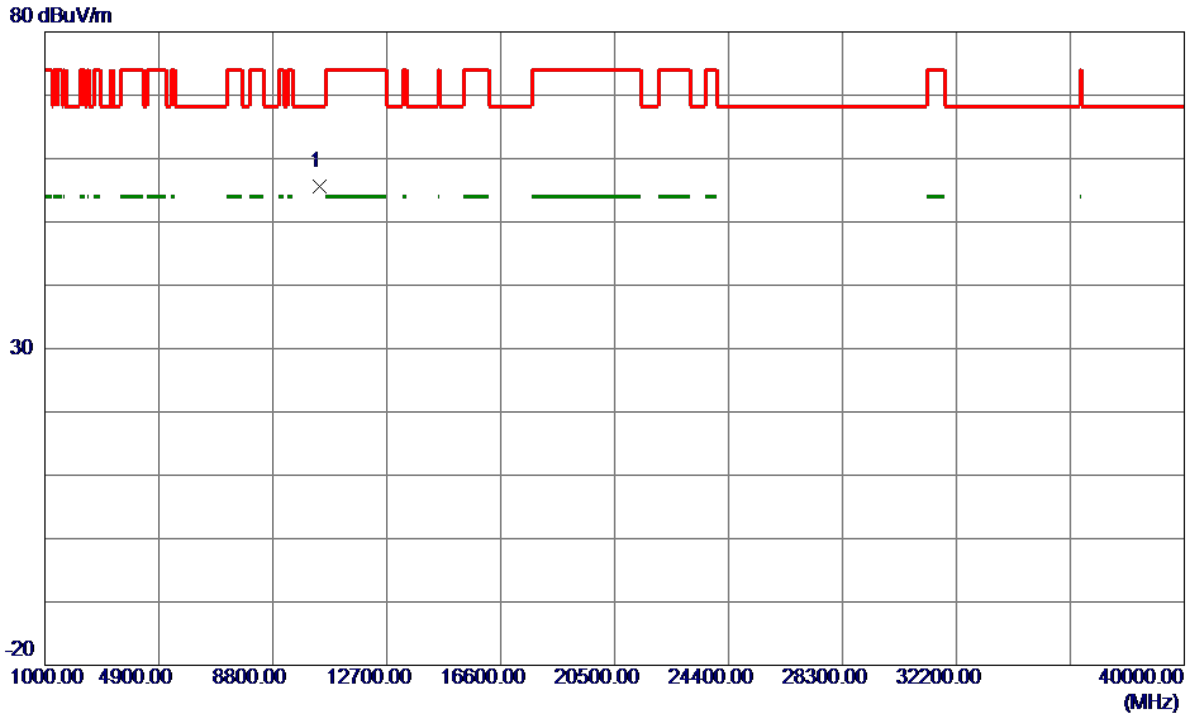
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5139.2000	42.50	16.62	59.12	74.00	-14.88	Peak	
2	5139.2000	33.30	16.62	49.92	54.00	-4.08	AVG	
3	5150.0000	39.14	16.65	55.79	74.00	-18.21	Peak	
4	5150.0000	32.27	16.65	48.92	54.00	-5.08	AVG	
5 *	5181.2000	83.87	16.73	100.60	68.30	32.30	Peak	No Limit
6	5197.2000	76.72	16.78	93.50	999.00	-905.50	AVG	No Limit

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

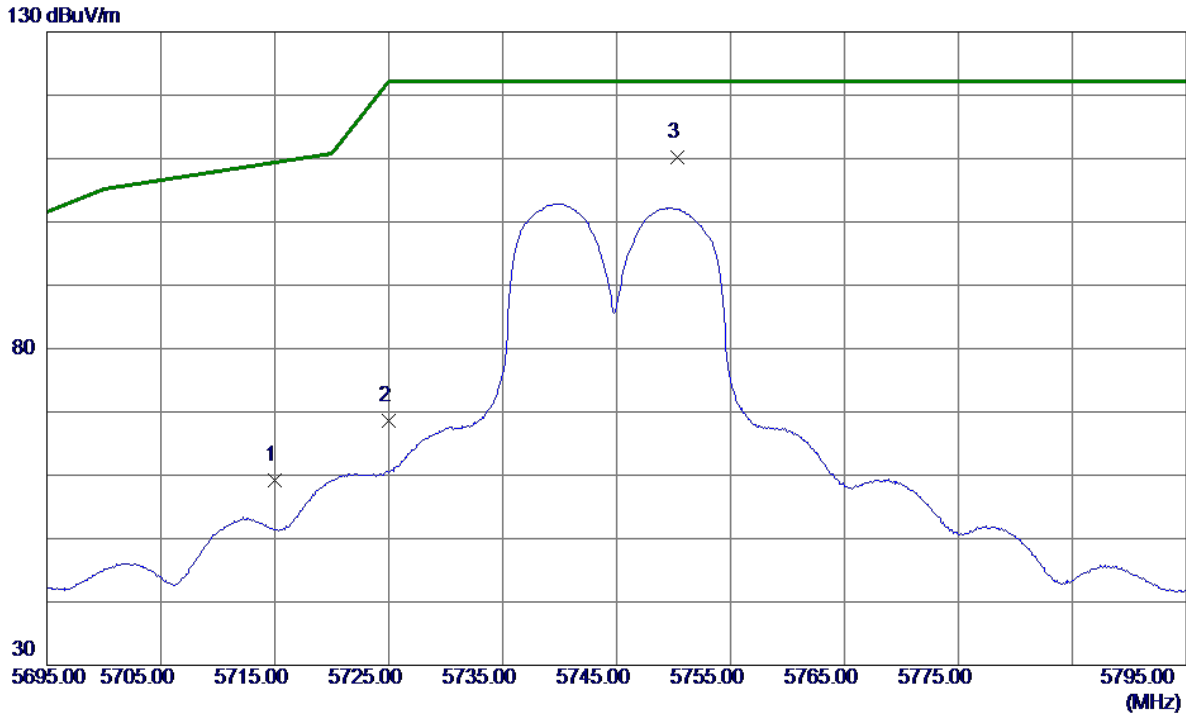
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.7000	35.36	20.33	55.69	68.30	-12.61	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745 MHz

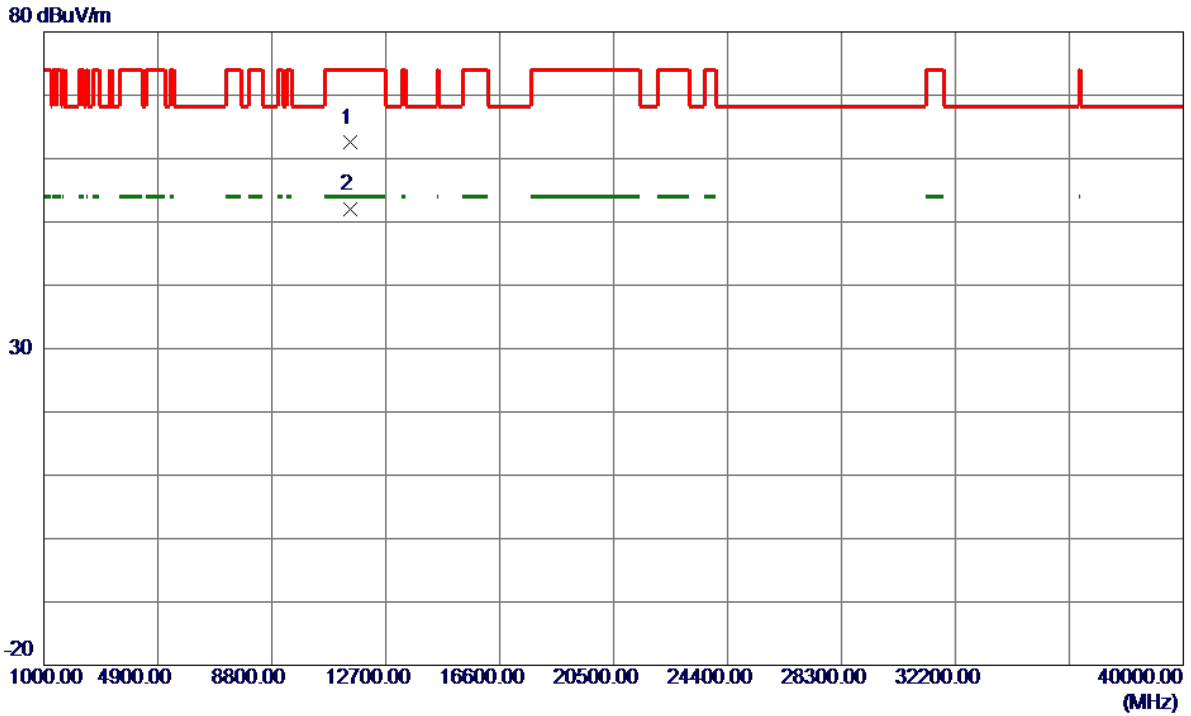
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	40.71	18.40	59.11	109.40	-50.29	Peak	
2	5725.0000	50.19	18.44	68.63	122.20	-53.57	Peak	
3 *	5750.3000	91.64	18.53	110.17	122.20	-12.03	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745 MHz

Vertical

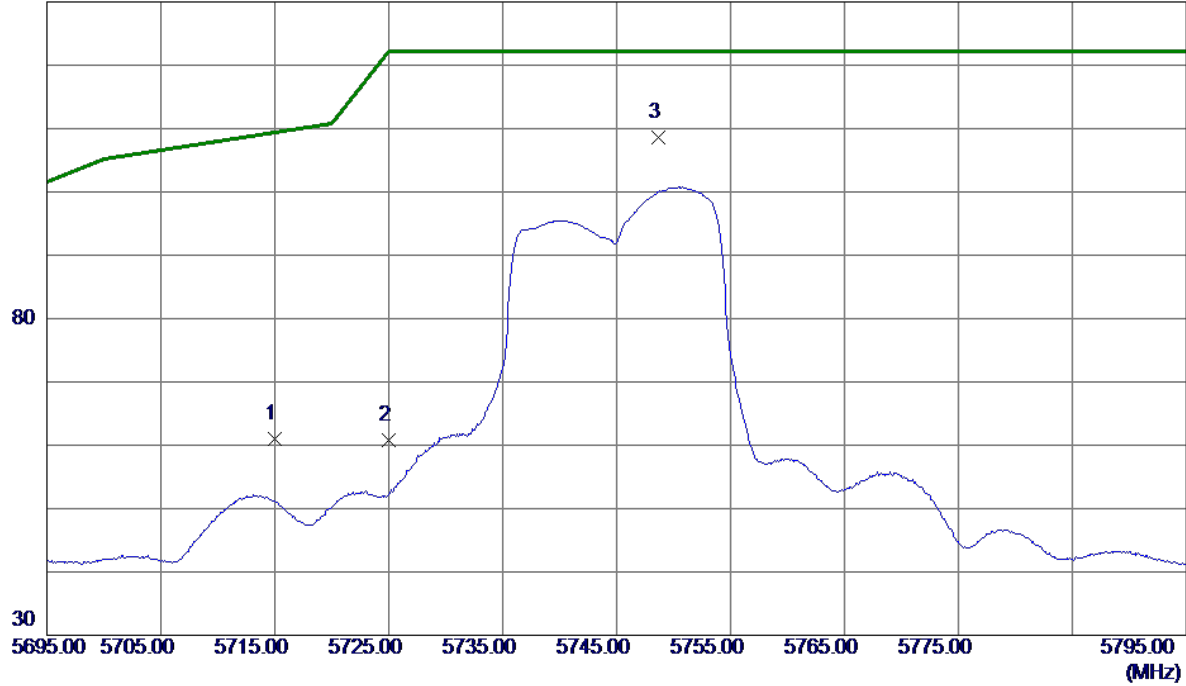


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11483.6400	41.32	21.18	62.50	74.00	-11.50	Peak	
2 *	11483.8400	30.82	21.18	52.00	54.00	-2.00	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745 MHz

Horizontal

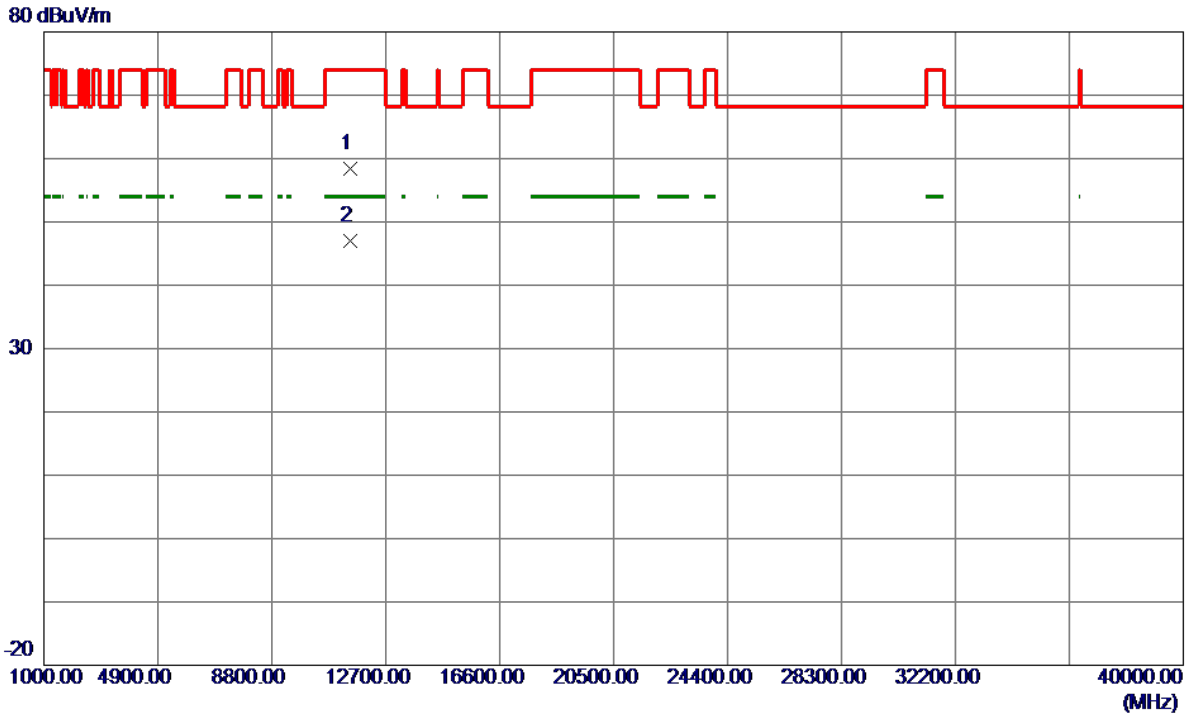
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	42.55	18.40	60.95	109.40	-48.45	Peak	
2	5725.0000	42.34	18.44	60.78	122.20	-61.42	Peak	
3 *	5748.7000	90.14	18.52	108.66	122.20	-13.54	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745 MHz

Horizontal

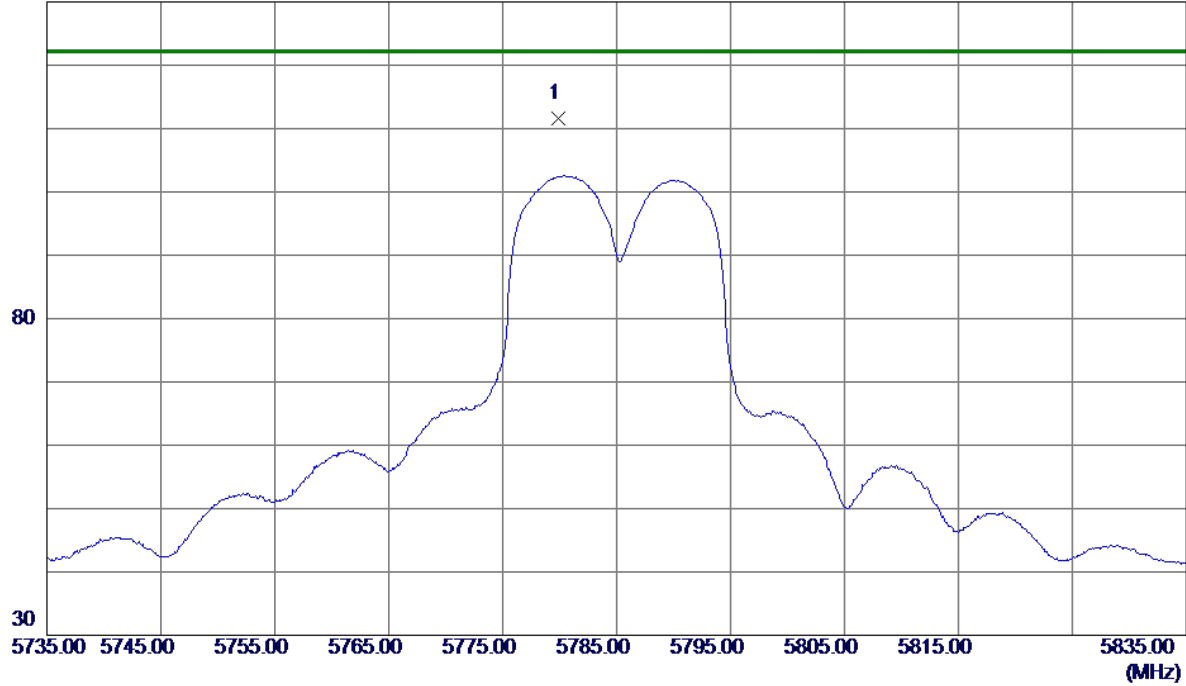


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11481.3600	37.17	21.17	58.34	74.00	-15.66	Peak	
2 *	11482.2400	25.77	21.17	46.94	54.00	-7.06	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785 MHz

Vertical

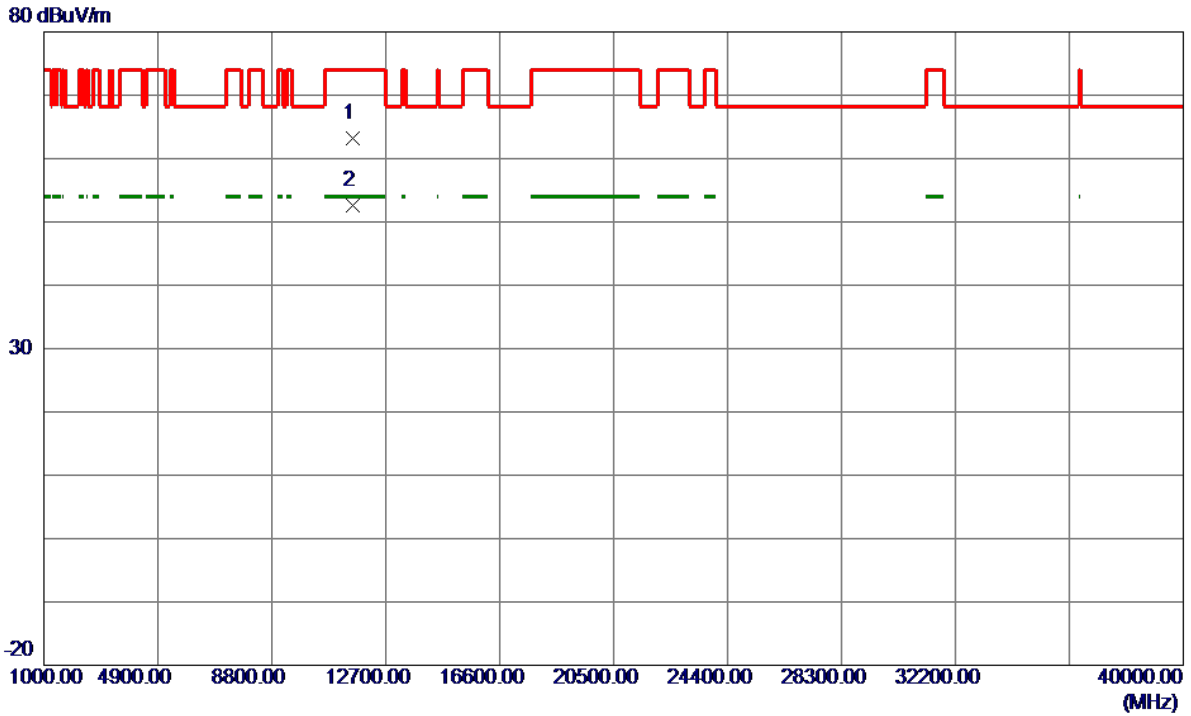
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5779.9000	92.92	18.63	111.55	122.20	-10.65	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785 MHz

Vertical

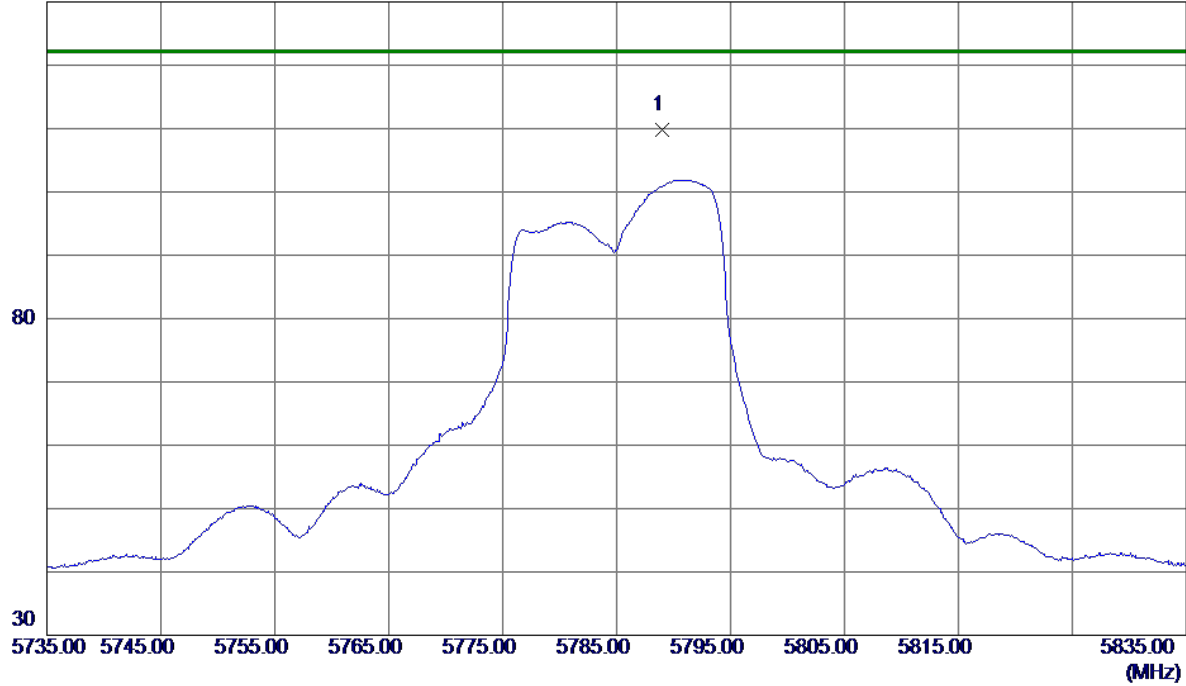


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11562.3600	41.97	21.22	63.19	74.00	-10.81	Peak	
2 *	11576.0800	31.30	21.23	52.53	54.00	-1.47	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785 MHz

Horizontal

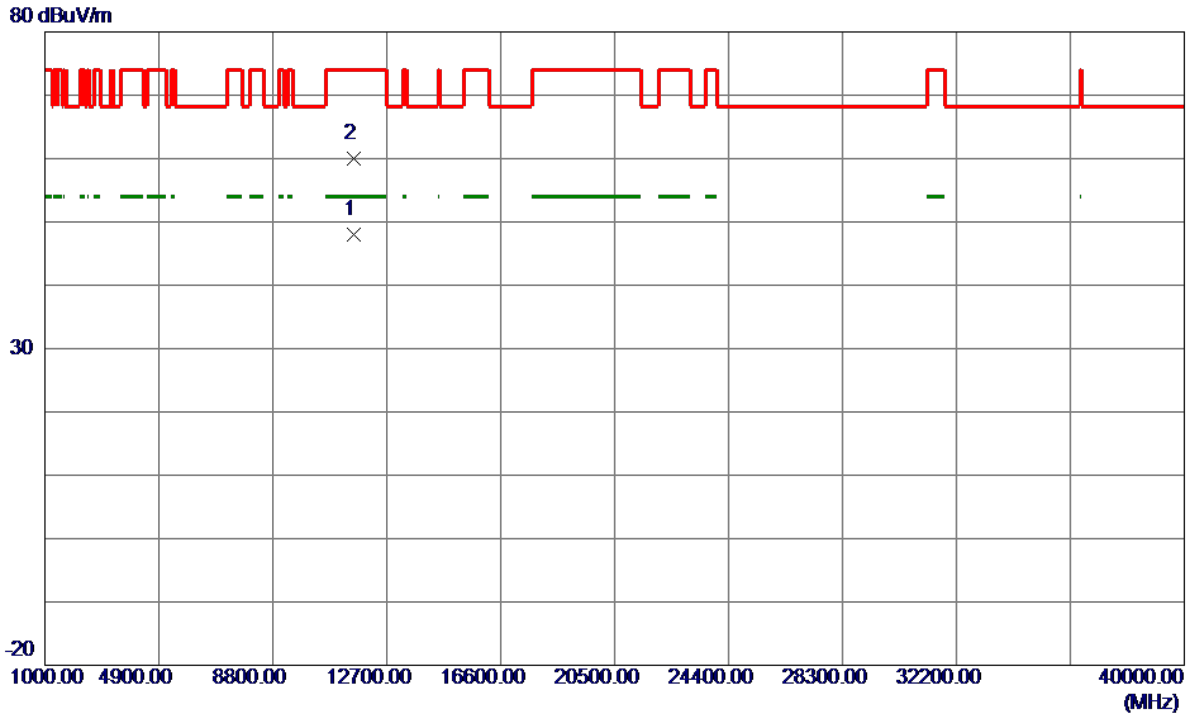
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5789.0000	91.14	18.66	109.80	122.20	-12.40	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785 MHz

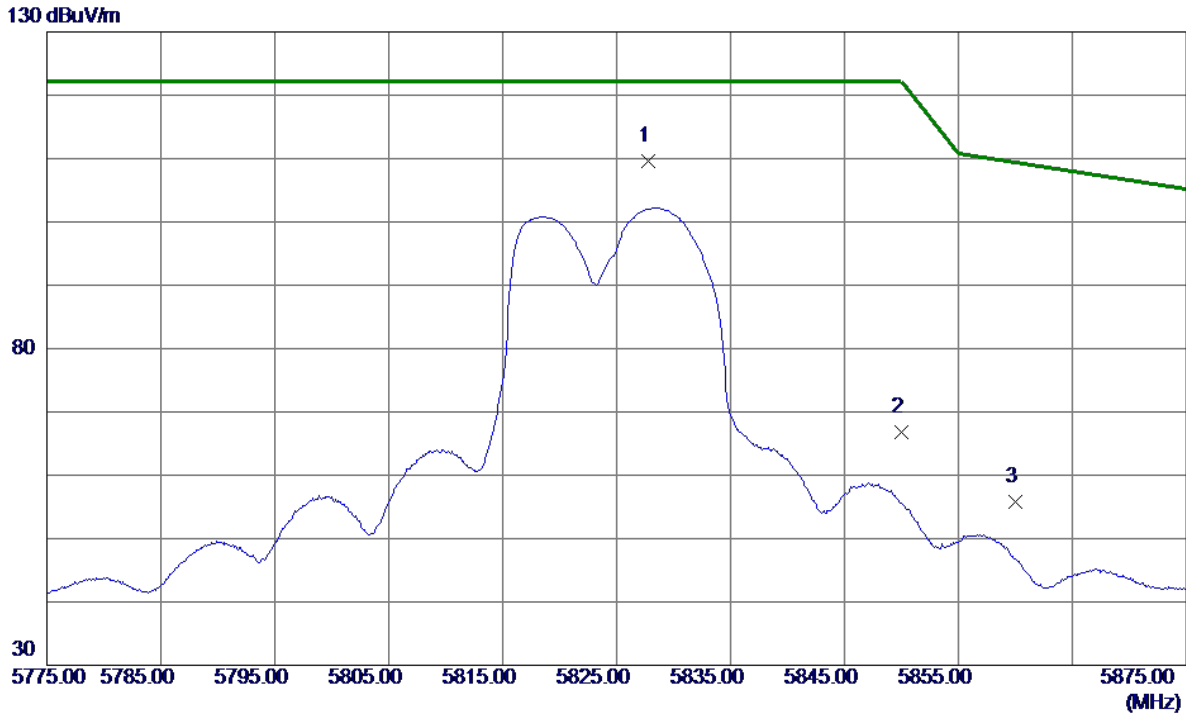
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11563.4000	26.74	21.22	47.96	54.00	-6.04	AVG	
2	11566.7200	38.79	21.22	60.01	74.00	-13.99	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825 MHz

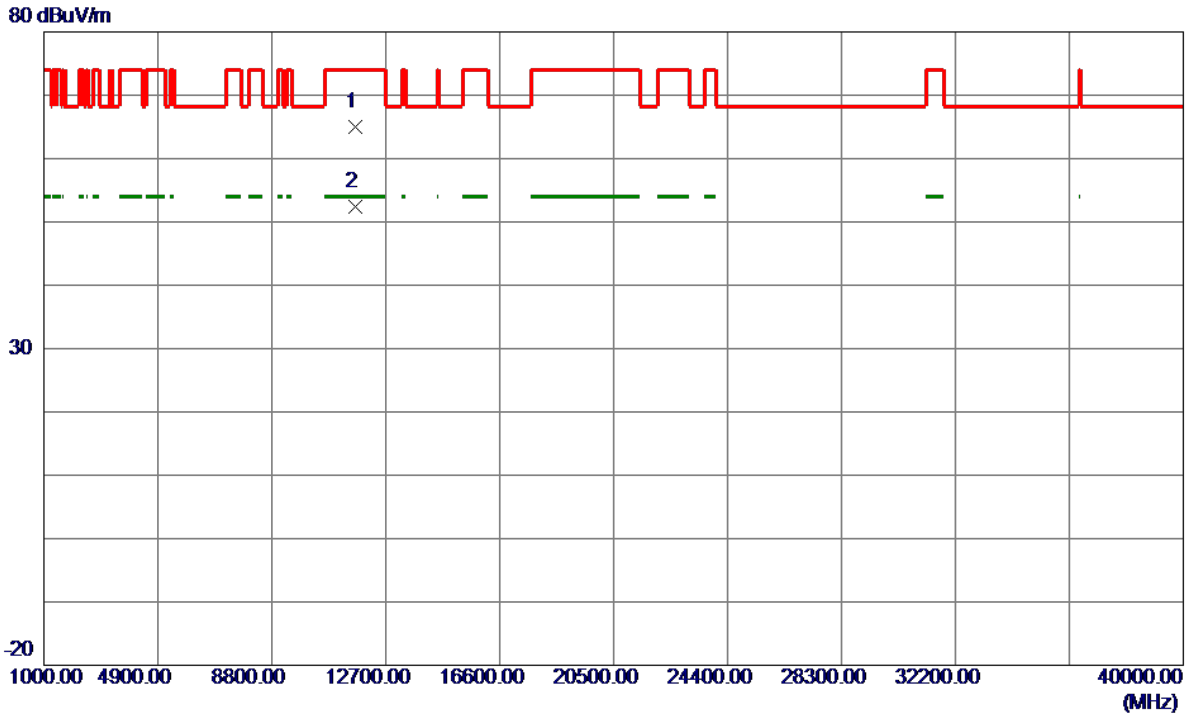
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5827.8000	90.80	18.80	109.60	122.20	-12.60	Peak	
2	5850.0000	47.97	18.88	66.85	122.20	-55.35	Peak	
3	5860.0000	36.93	18.91	55.84	109.40	-53.56	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825 MHz

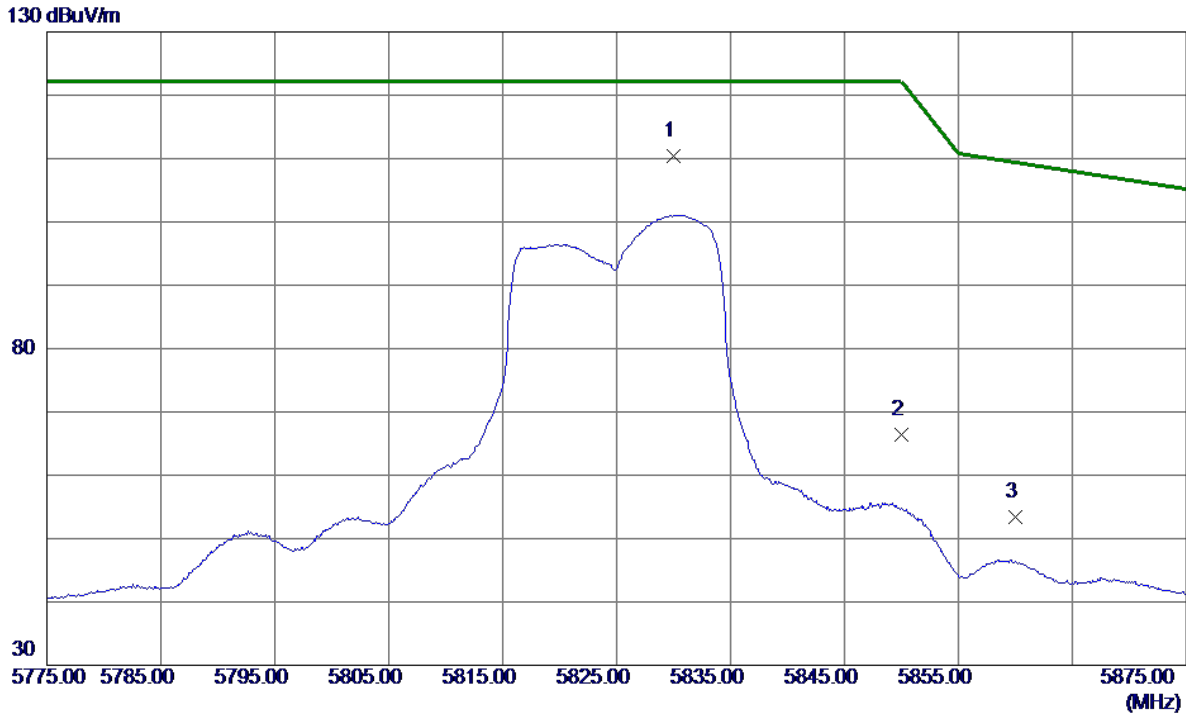
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11640.0800	43.77	21.26	65.03	74.00	-8.97	Peak	
2 *	11657.0800	31.05	21.27	52.32	54.00	-1.68	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825 MHz

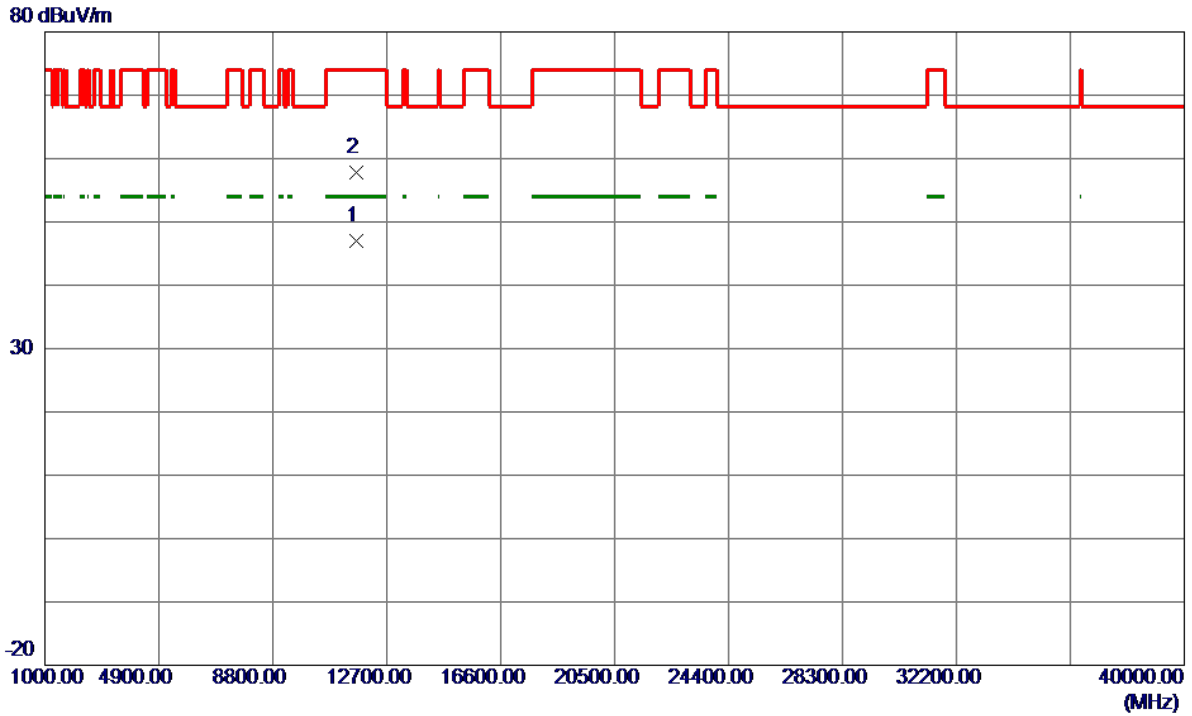
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5830.0000	91.60	18.81	110.41	122.20	-11.79	Peak	
2	5850.0000	47.53	18.88	66.41	122.20	-55.79	Peak	
3	5860.0000	34.57	18.91	53.48	109.40	-55.92	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825 MHz

Horizontal

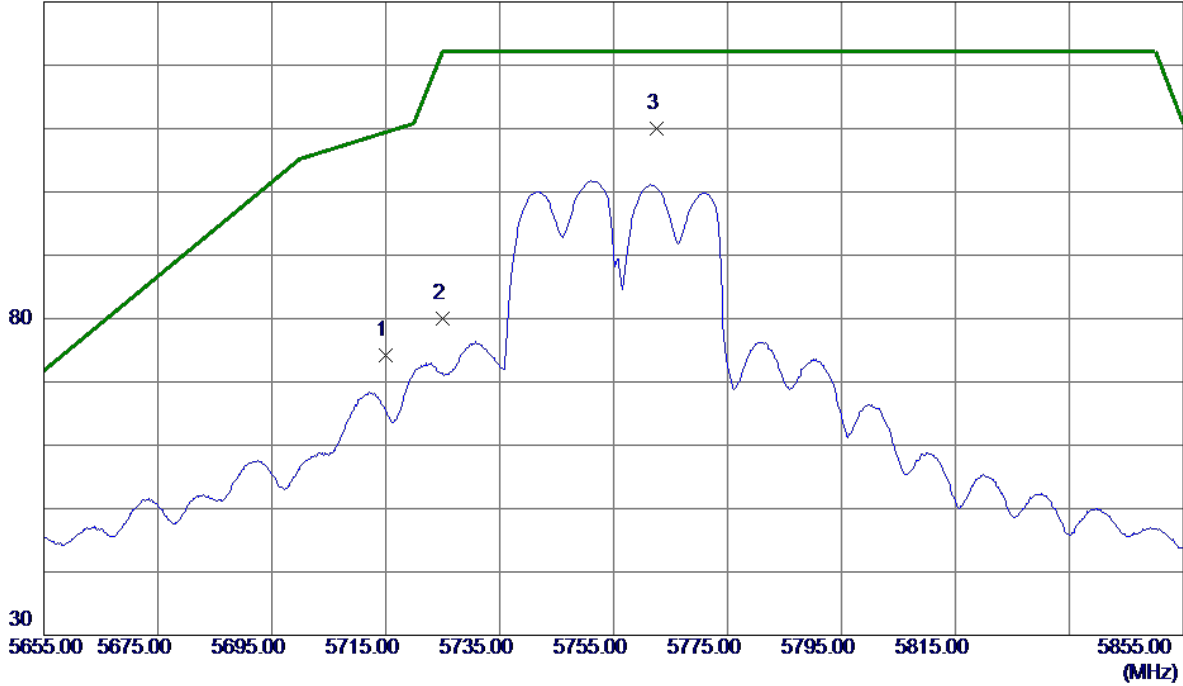


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11656.3200	25.76	21.27	47.03	54.00	-6.97	AVG	
2	11658.6000	36.48	21.27	57.75	74.00	-16.25	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

Vertical

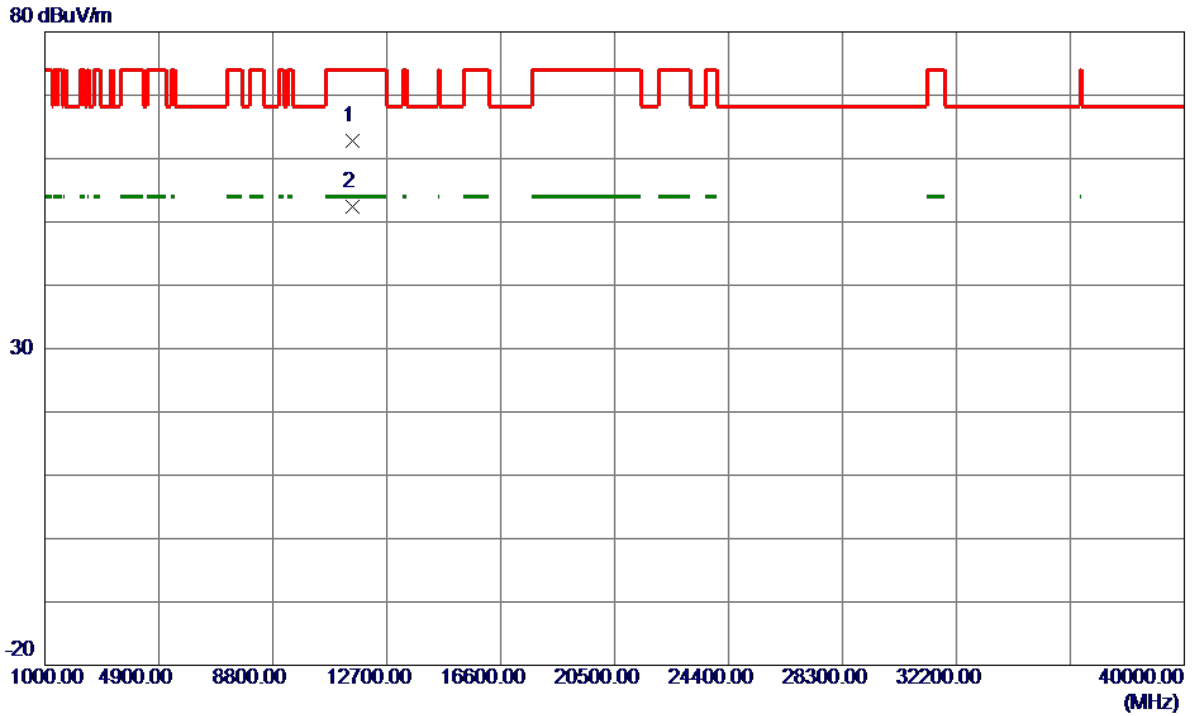
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	55.80	18.40	74.20	109.40	-35.20	Peak	
2	5725.0000	61.50	18.44	79.94	122.20	-42.26	Peak	
3 *	5762.6000	91.39	18.57	109.96	122.20	-12.24	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

Vertical

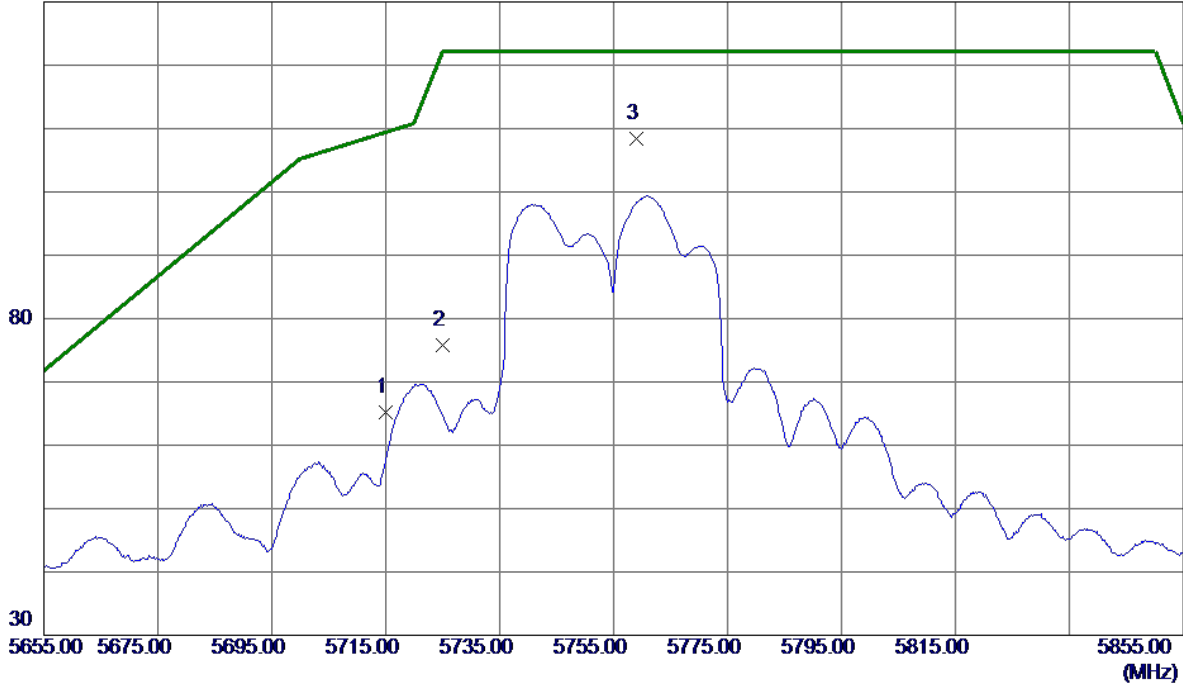


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11518.4800	41.51	21.20	62.71	74.00	-11.29	Peak	
2 *	11519.8400	31.25	21.20	52.45	54.00	-1.55	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

Horizontal

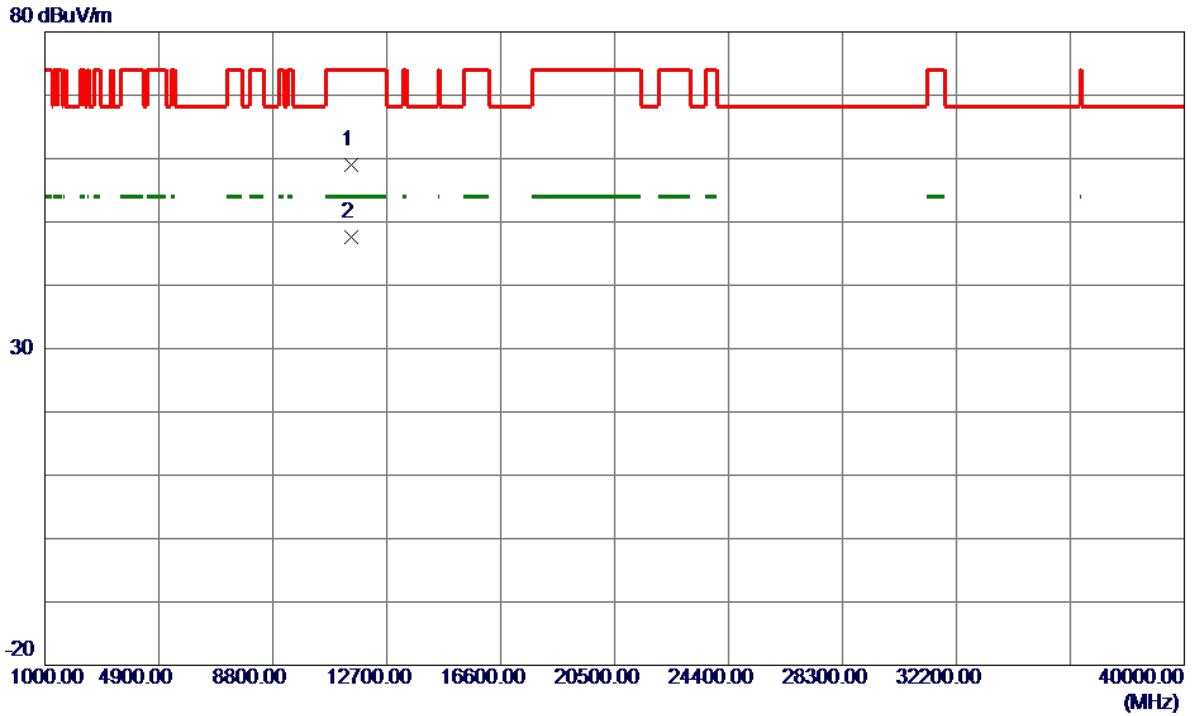
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	46.79	18.40	65.19	109.40	-44.21	Peak	
2	5725.0000	57.31	18.44	75.75	122.20	-46.45	Peak	
3 *	5759.0000	89.87	18.56	108.43	122.20	-13.77	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

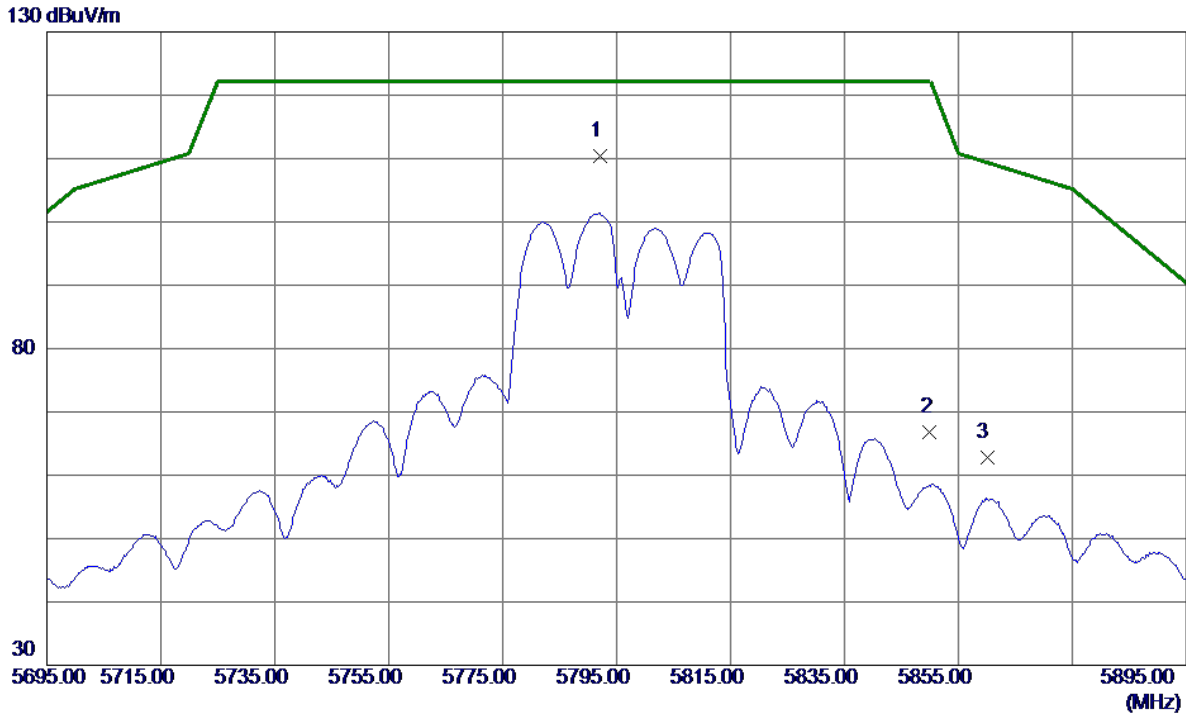
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11506.4000	37.83	21.19	59.02	74.00	-14.98	Peak	
2 *	11507.5199	26.42	21.19	47.61	54.00	-6.39	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

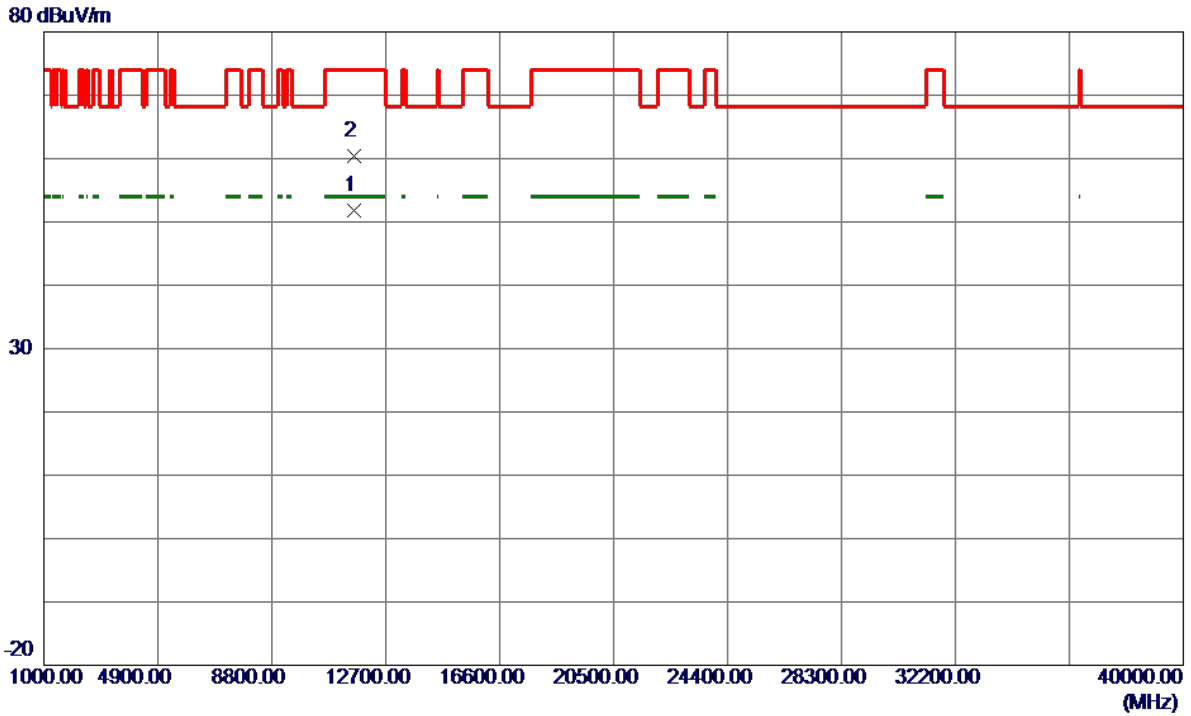
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5792.2000	91.76	18.67	110.43	122.20	-11.77	Peak	
2	5850.0000	47.92	18.88	66.80	122.20	-55.40	Peak	
3	5860.0000	43.97	18.91	62.88	109.40	-46.52	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

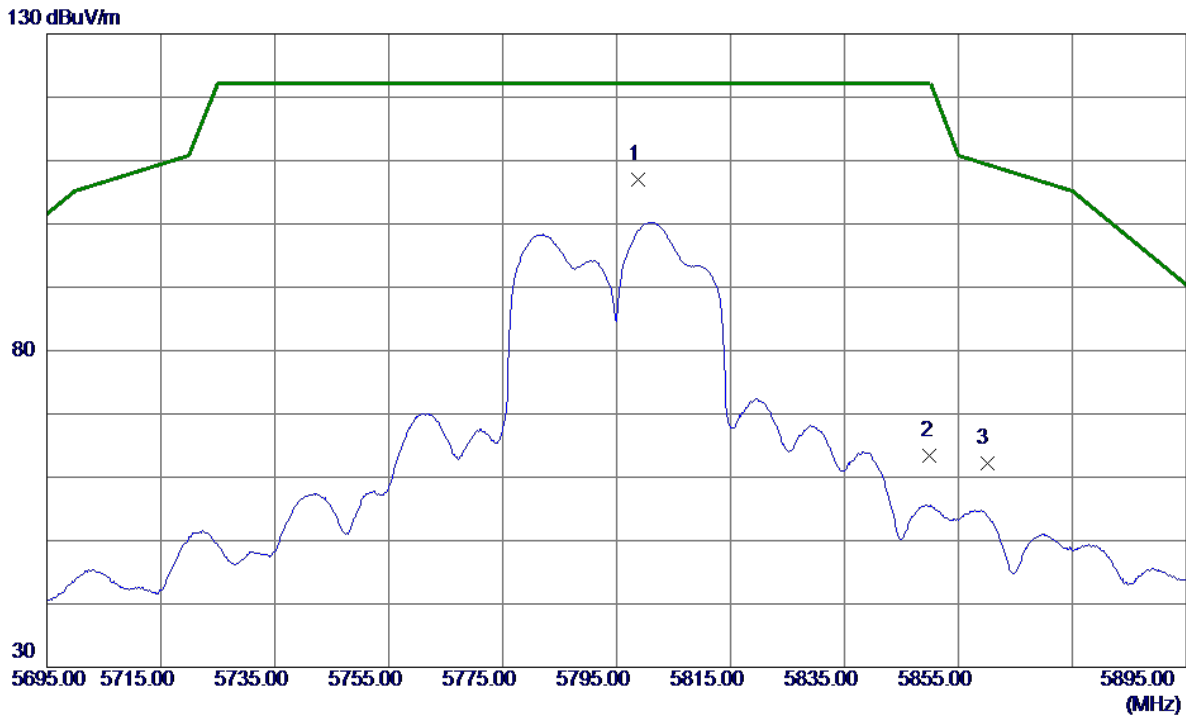
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11600.2400	30.50	21.24	51.74	54.00	-2.26	AVG	
2	11602.4000	39.24	21.24	60.48	74.00	-13.52	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

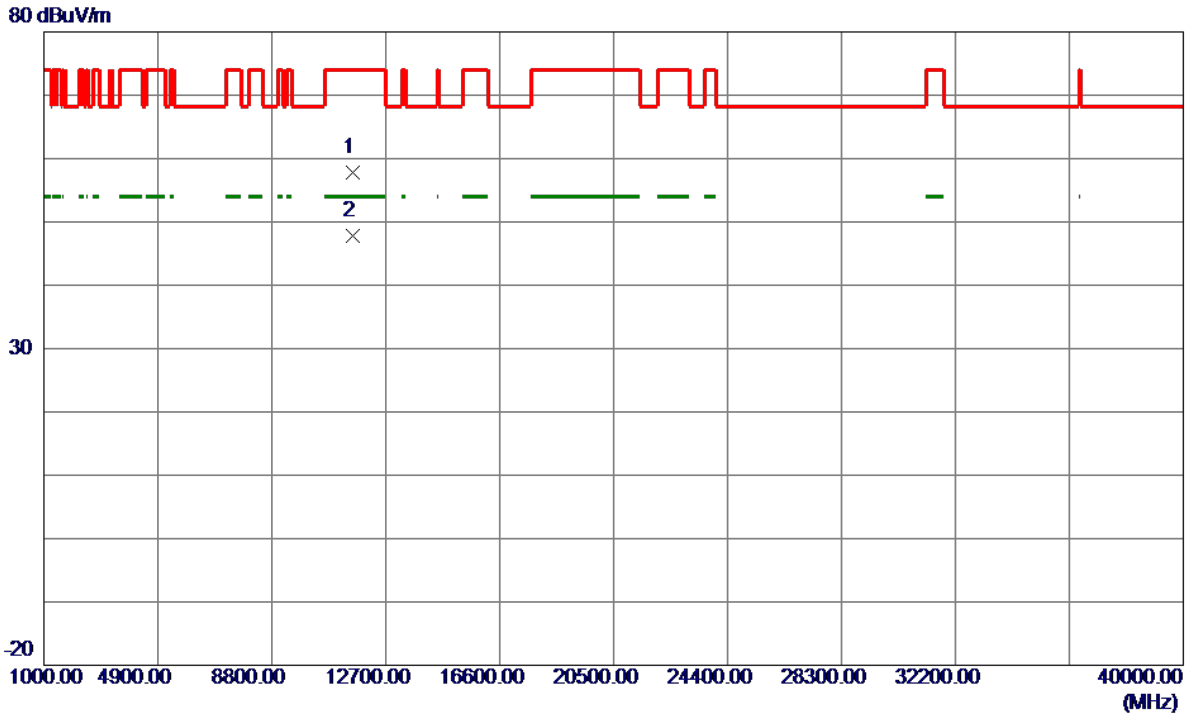
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5798.8000	88.31	18.70	107.01	122.20	-15.19	Peak	
2	5850.0000	44.52	18.88	63.40	122.20	-58.80	Peak	
3	5860.0000	43.28	18.91	62.19	109.40	-47.21	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

Horizontal

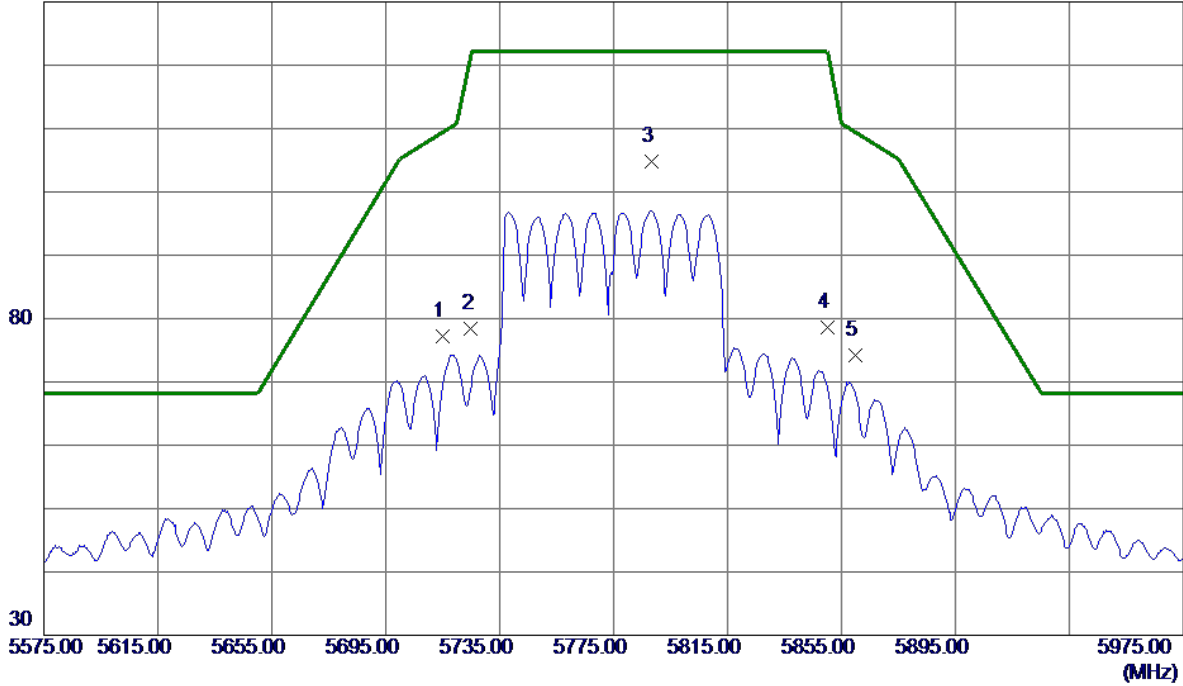


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11589.3600	36.55	21.23	57.78	74.00	-16.22	Peak	
2 *	11593.9200	26.62	21.24	47.86	54.00	-6.14	AVG	

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

Vertical

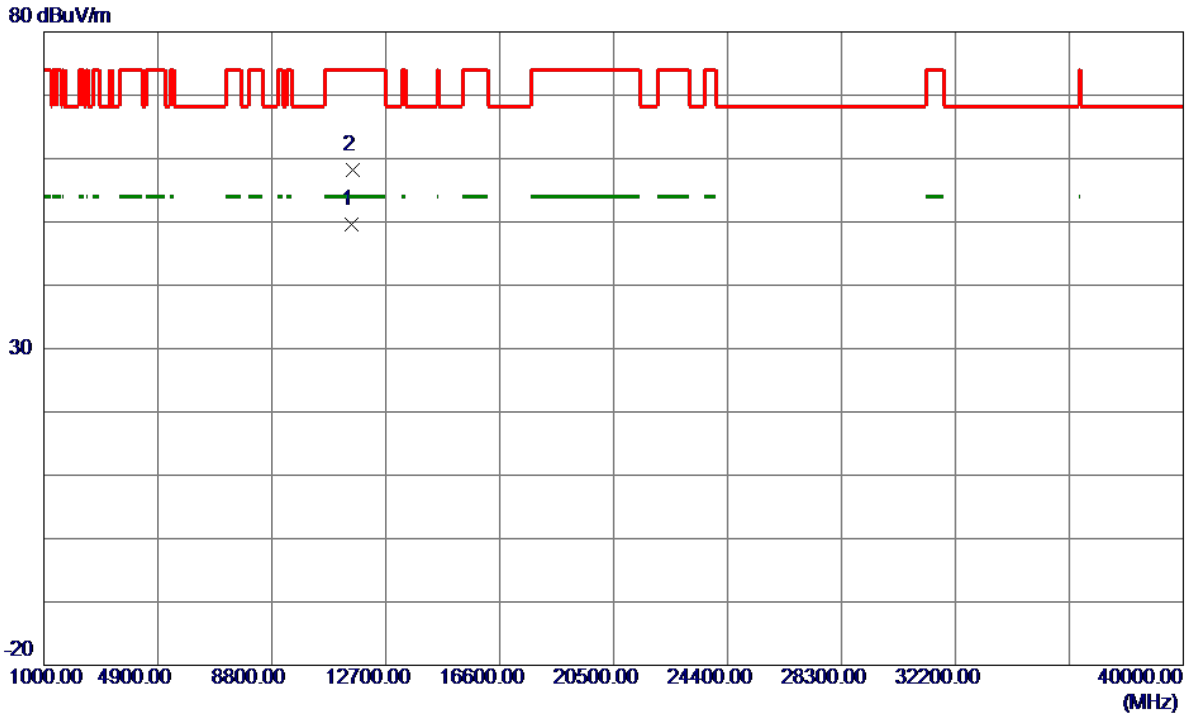
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	58.84	18.40	77.24	109.40	-32.16	Peak	
2	5725.0000	59.96	18.44	78.40	122.20	-43.80	Peak	
3 *	5788.2000	86.22	18.66	104.88	122.20	-17.32	Peak	
4	5850.0000	59.63	18.88	78.51	122.20	-43.69	Peak	
5	5860.0000	55.34	18.91	74.25	109.40	-35.15	Peak	

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

Vertical

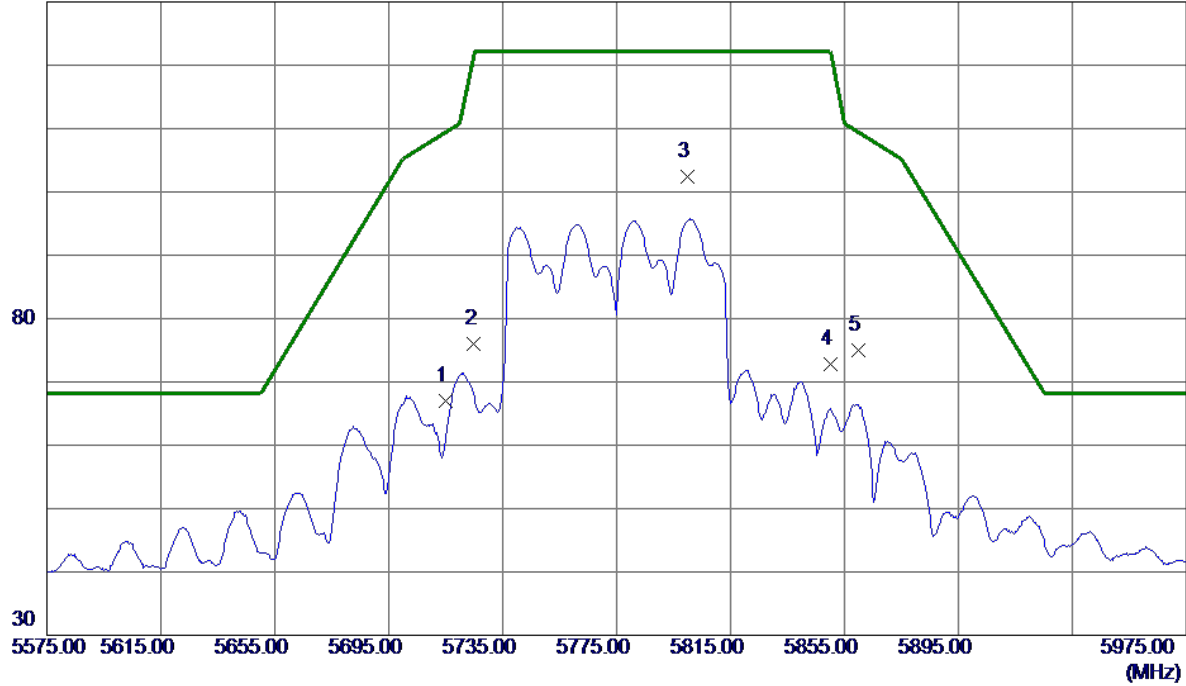


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11542.5000	28.42	21.21	49.63	54.00	-4.37	AVG	
2	11577.3000	36.97	21.23	58.20	74.00	-15.80	Peak	

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

Horizontal

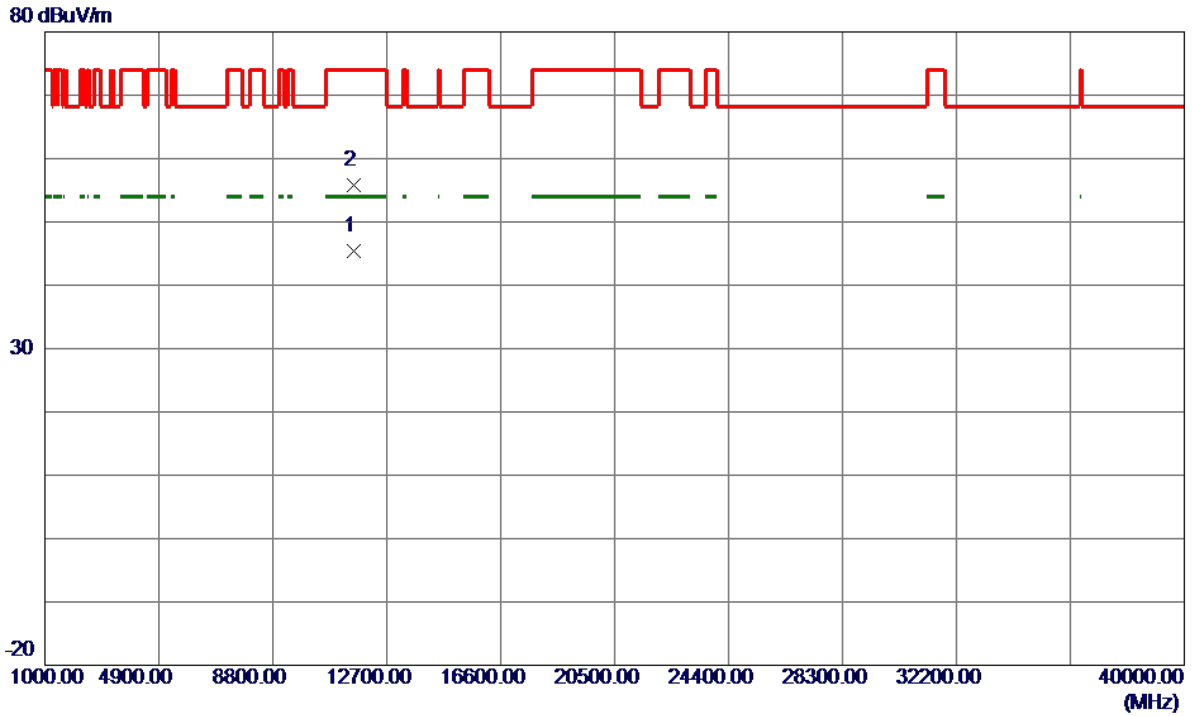
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	48.60	18.40	67.00	109.40	-42.40	Peak	
2	5725.0000	57.48	18.44	75.92	122.20	-46.28	Peak	
3 *	5799.8000	83.79	18.70	102.49	122.20	-19.71	Peak	
4	5850.0000	53.83	18.88	72.71	122.20	-49.49	Peak	
5	5860.0000	56.10	18.91	75.01	109.40	-34.39	Peak	

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

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11552.3000	24.27	21.21	45.48	54.00	-8.52	AVG	
2	11552.4000	34.63	21.21	55.84	74.00	-18.16	Peak	

TX A Mode_DUTY CYCLE

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

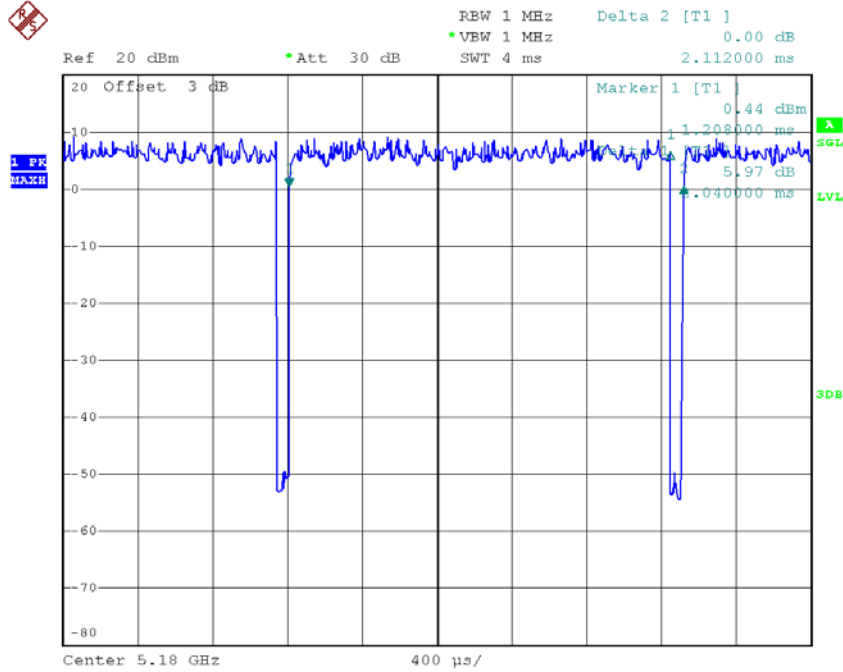
T_{ON} : 2.040 msec

T_{Total} : 2.112 msec

Duty cycle: 96.59%

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

Duty Factor = 0.15



Date: 25.JUN.2018 16:14:21

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle < 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducus factor
 Power Spectral Density = Measured density + Duty factor

TX N20 Mode_DUTY CYCLE

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

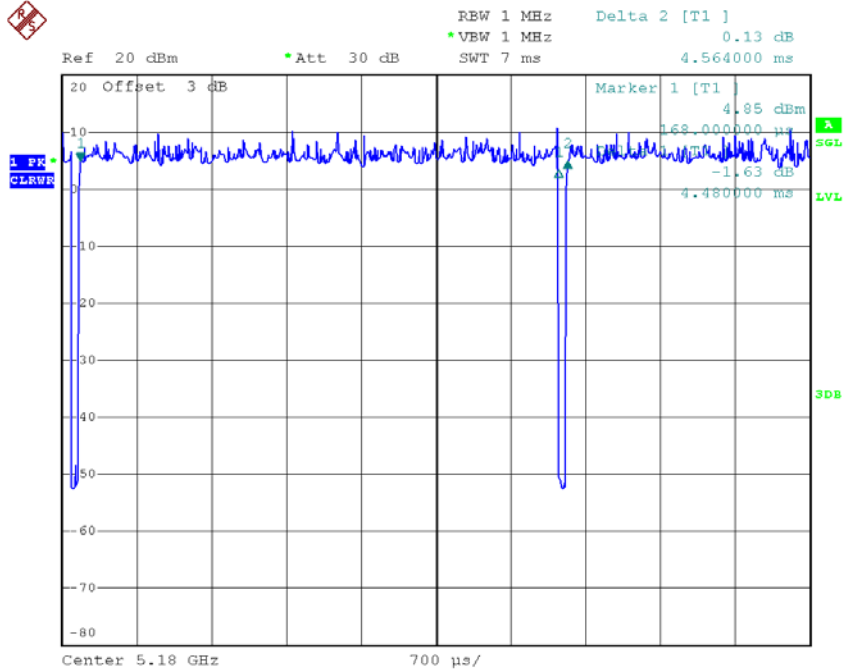
T_{ON} : 4.480 msec

T_{Total} : 4.564 msec

Duty cycle: 98.16%

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

Duty Factor = 0.00



Date: 25.JUN.2018 16:15:19

Note: The duty cycle is $\geq 98\%$ no need to cacluated as Duty Factor.

TX N40 Mode_DUTY CYCLE

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

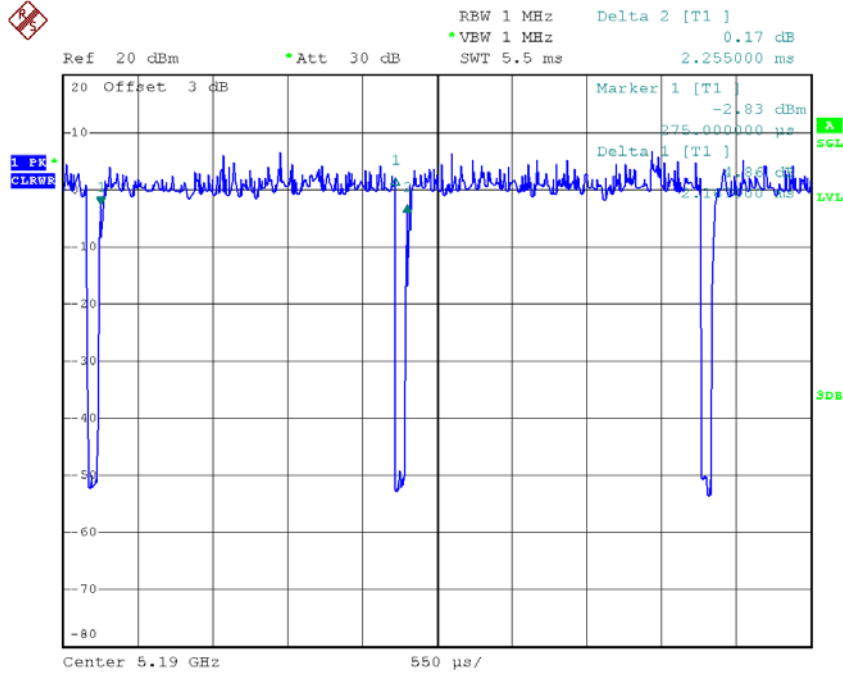
T_{ON} : 2.167 msec

T_{Total} : 2.255 msec

Duty cycle: 96.10%

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

Duty Factor = 0.17



Date: 25.JUN.2018 16:16:58

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle < 98 %, so, the output power and power density should be cacluated as Output

Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

TX AC20 Mode_DUTY CYCLE

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

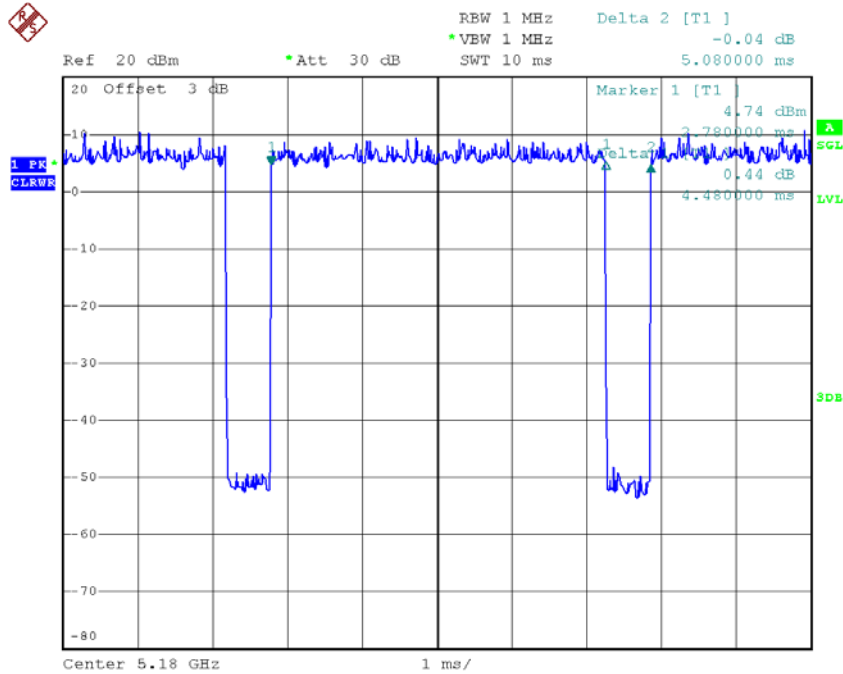
T_{ON} : 4.480 msec

T_{Total} : 5.080 msec

Duty cycle: 88.19%

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

$$\text{Duty Factor} = 0.55$$



Date: 25.JUN.2018 16:16:18

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle < 98 %, so, the output power and power density should be cacluated as Output

$$\text{Power} = \text{Measured power} + \text{Ducy factor}$$

$$\text{Power Spectral Density} = \text{Measured density} + \text{Duty factor}$$

TX AC40 Mode_DUTY CYCLE

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

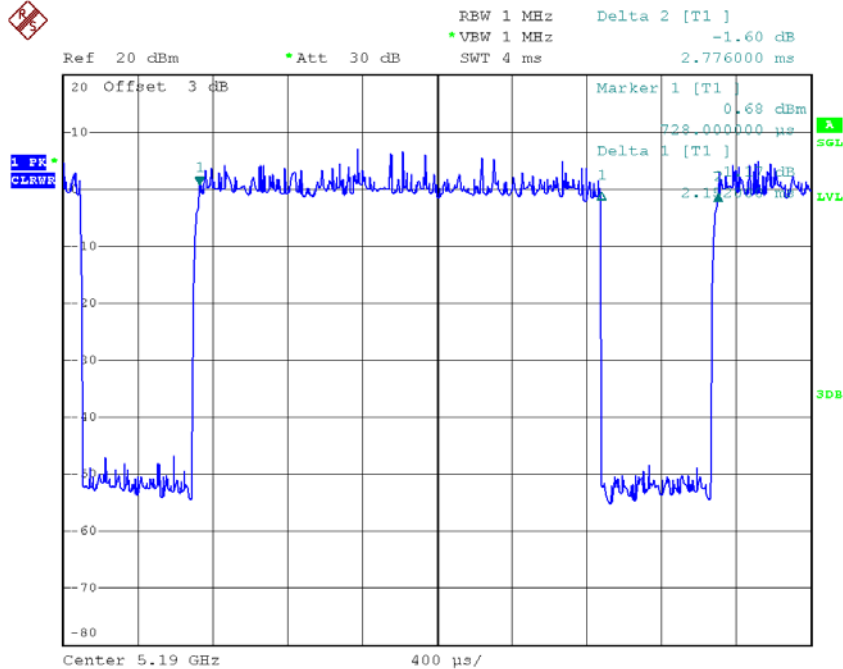
T_{ON} : 2.152 msec

T_{Total} : 2.776 msec

Duty cycle: 77.52%

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

Duty Factor = 1.11



Date: 25.JUN.2018 16:17:39

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

Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

TX AC80 Mode_DUTY CYCLE

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

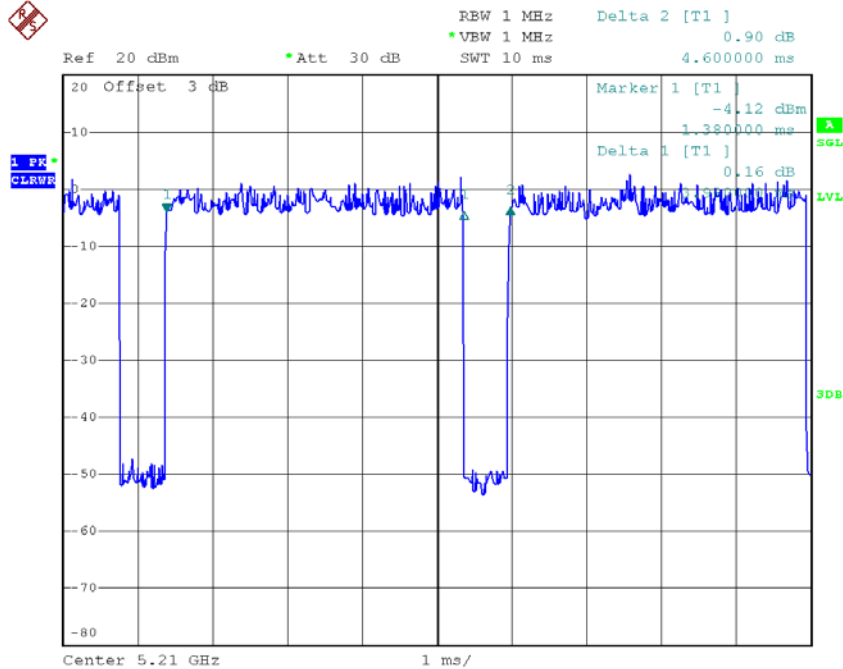
T_{ON} : 3.980 msec

T_{Total} : 4.600 msec

Duty cycle: 86.52%

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

Duty Factor = 0.63



Date: 25.JUN.2018 16:18:04

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

Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

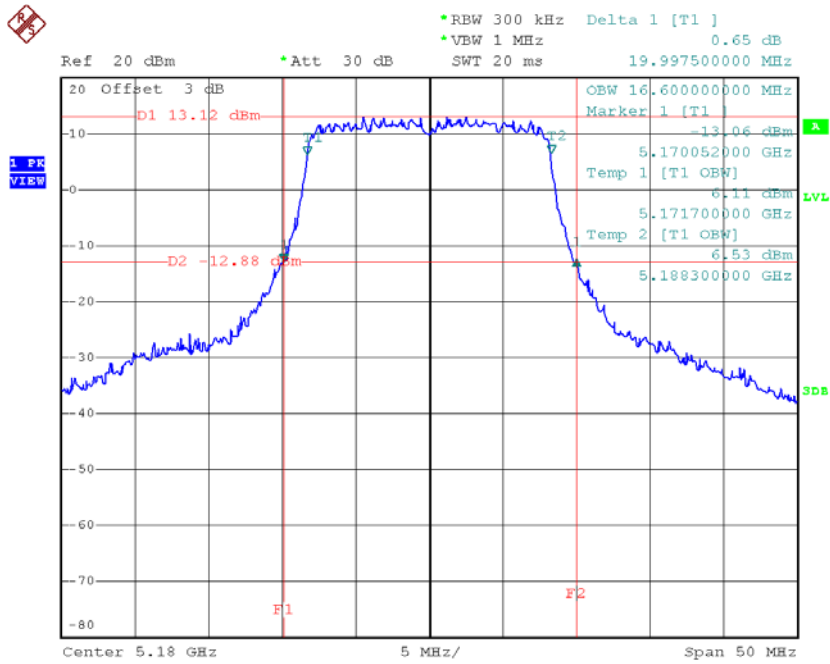
APPENDIX E - BANDWIDTH

Non-Beamforming

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

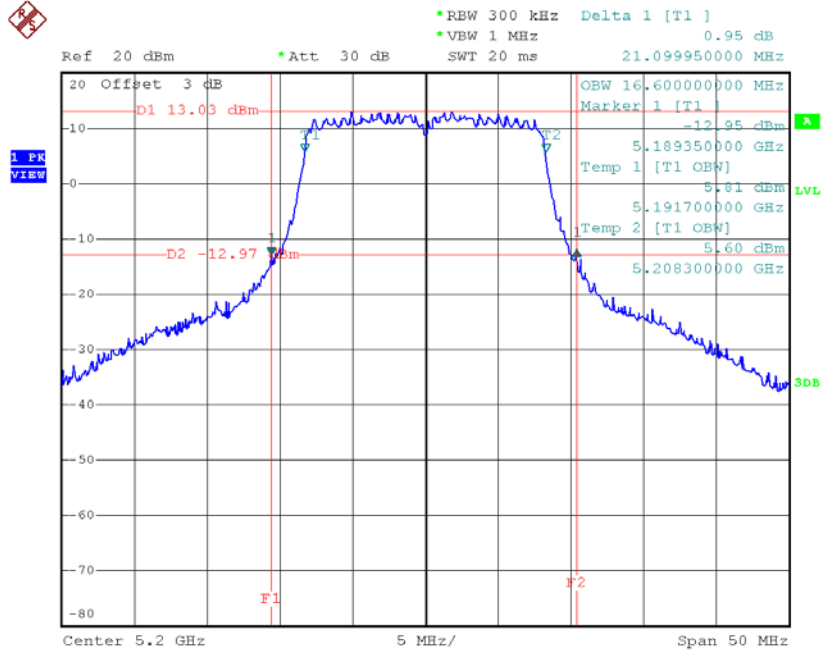
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	20.00	16.60
CH40	5200	21.10	16.60
CH48	5240	20.55	16.60

TX CH36



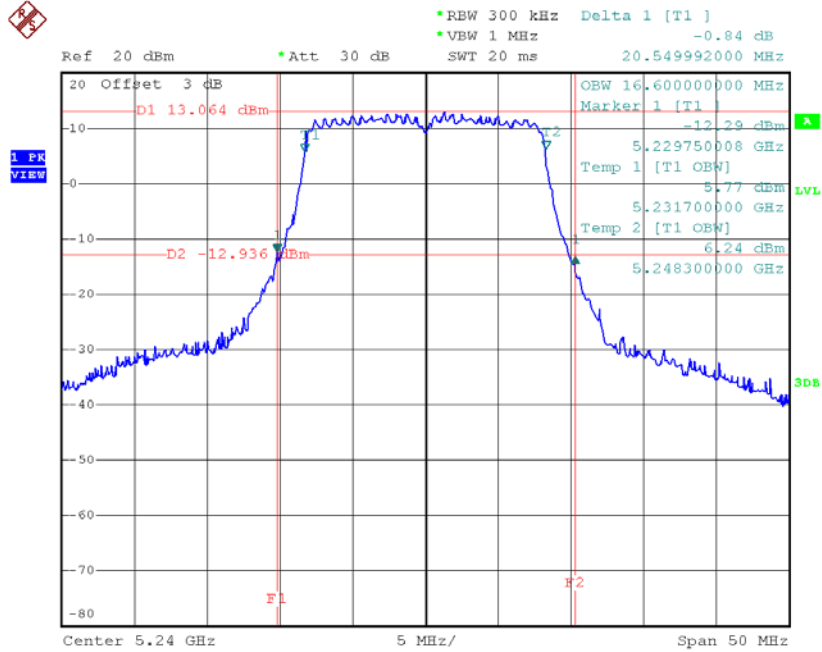
Date: 28.JUN.2018 15:44:30

TX CH40



Date: 28.JUN.2018 15:46:46

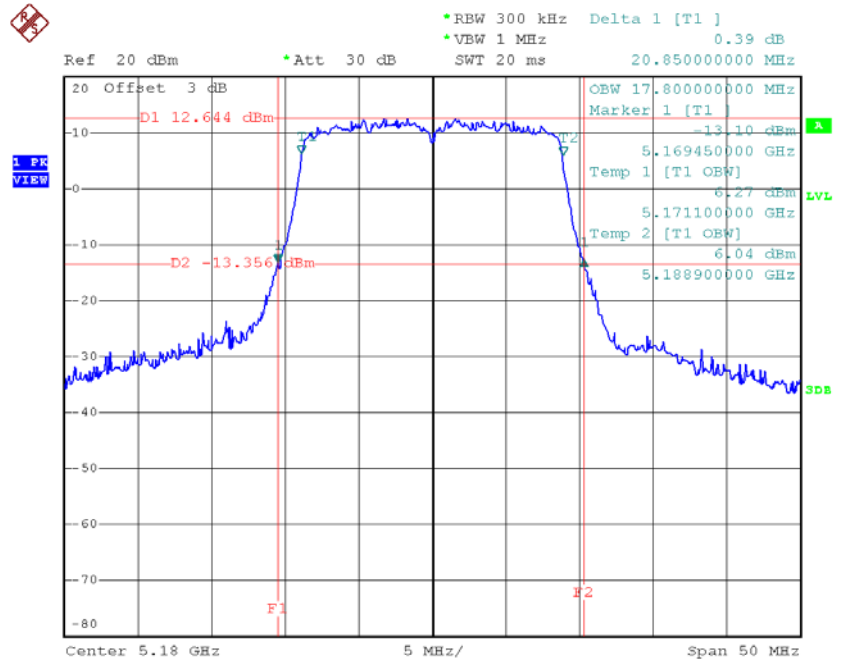
TX CH48



Date: 28.JUN.2018 15:47:40

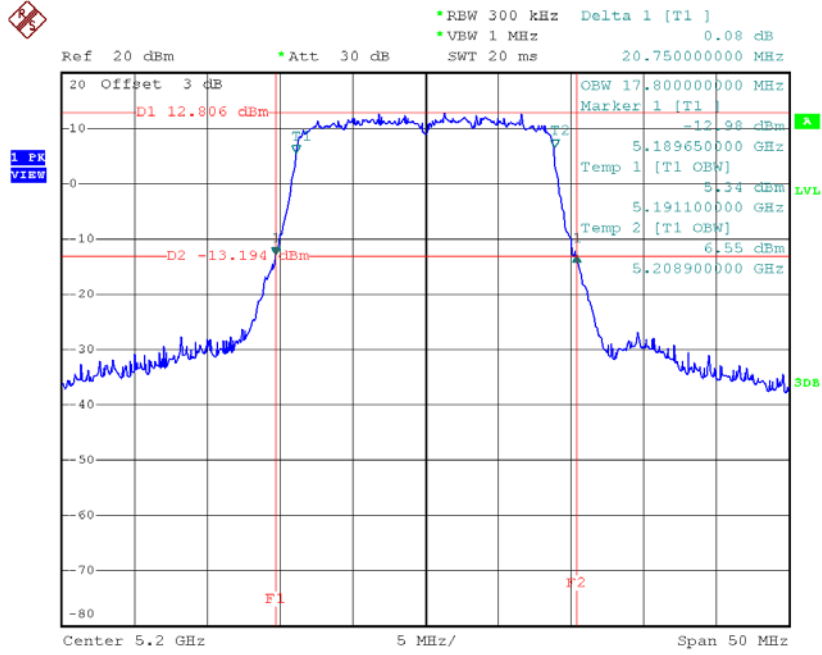
Test Mode: UNII-1/TX N20 Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	20.85	17.80
CH40	5200	20.75	17.80
CH48	5240	20.79	17.80

TX CH36


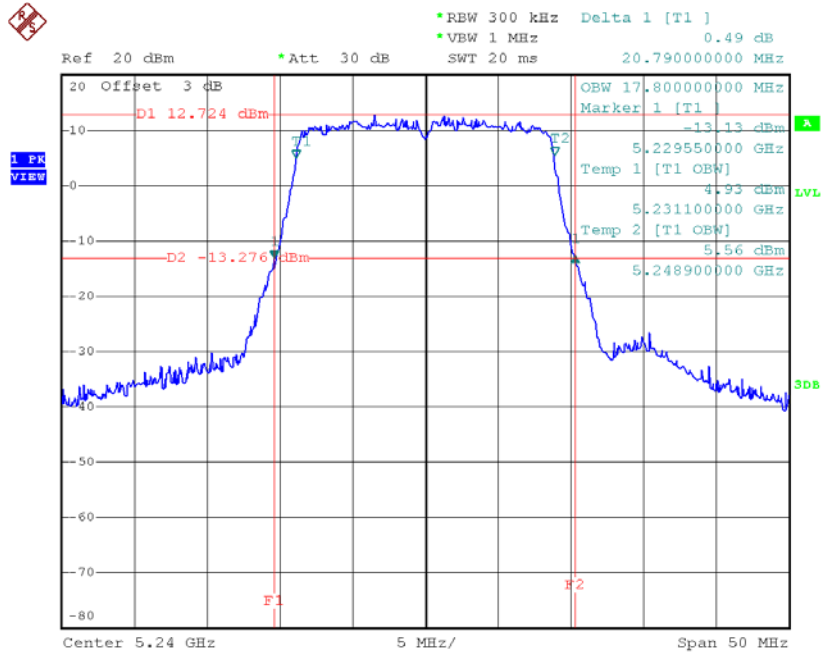
Date: 28.JUN.2018 16:34:23

TX CH40



Date: 28.JUN.2018 16:36:02

TX CH48



Date: 28.JUN.2018 16:37:36

Test Mode: UNII-1/TX N40 Mode_CH38/CH46

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH38	5190	40.61	36.00
CH46	5230	40.99	36.20