FCC&IC Radio Test Report

FCC ID: UXD16001

IC: 21561-16001

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

Project No.	:	1602C119
Equipment	:	Wireless speaker
Model Name	:	LS50 Wireless
Applicant	:	GP Electronics HK Ltd.
Address	:	9/F,Building 12W,12 Science Park West Avenue, Hong Kong Science Park,Pak Shek Kok,New Territories,Hong Kong

Date of Receipt	:	May 11, 2016
Date of Test	:	May 11, 2016 ~ Jun. 08, 2016
Issued Date	:	Jun. 13, 2016
Tested by	:	BTL Inc.

Testing Engineer : Shawn xiao
(Shawn Xiao)

Technical Manager : David Mao
(David Mao)

Authorized Signatory : Steven Lu
(Steven Lu)

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.
TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

Declaration

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

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

BTL's report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL**'s authorized written approval.

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

Limitation

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

Table of Contents Page

Table of Contents Page

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FICP-4-1602C119	Original Issue.	Jun. 13, 2016

1. CERTIFICATION

Equipment	:	Wireless speaker
Brand Name	:	KEF
Model Name	:	LS50 Wireless
Applicant	:	GP Electronics HK Ltd.
Manufacturer	:	GP Electronics (Huizhou) Co., Ltd.
Address	:	No.76,Hui Feng Si Road,Zhong Kai Hi-Tech Ind.Development Zone, Huizhou, Guangdong,516006 China
Factory	:	GP Electronics (Huizhou) Co., Ltd.
Address	:	No.76,Hui Feng Si Road,Zhong Kai Hi-Tech Ind.Development Zone, Huizhou, Guangdong,516006 China
Date of Test	:	Jun. 08, 2016 ~ Jun. 08, 2016
Test Sample	:	Engineering Sample
Standard(s)	:	FCC Part15, Subpart E(15.407) / ANSI C63.10-2013 RSS-247 Issue 1 May 2015 RSS-GEN Issue 4, Nov 2014

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-FICP-4-1602C119) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E RSS-247 Issue 1 May 2015, RSS-GEN Issue 4, Nov 2014				
Standard(s) Section		Test Item	Judgment	Remark
FCC	IC			
15.207	RSS-GEN 8.8	AC Power Line Conducted Emissions	PASS	
15.407(a)	RSS-247 6.2.2 (1)	Spectrum Bandwidth	PASS	
15.407(a)	RSS-247 6.2.2 (1)	Maximum Conducted Output Power	PASS	
15.407(a)	RSS-247 6.2.2 (1)	Power Spectral Density	PASS	
15.407(a)	RSS-247 6.2.2 (2)	Radiated Emissions	PASS	
15.407(b)	RSS-247 6.2.2 (2)	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: 319330
BTL's test firm number for IC: 4428B-1

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	1.94

B. Radiated Measurement:

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

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless speaker	
Brand Name	KEF	
Model Name	LS50 Wireless	
Mode Different	N/A	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	150Mbps
Output Power	Output Power (Max.) for UNII-1 ANT 1	802.11a: 15.30dBm 802.11n (20M): 14.75dBm 802.11n (40M): 15.39dBm
	Output Power (Max.) for UNII-3 ANT 1	802.11a: 11.63dBm 802.11n (20M): 10.26dBm 802.11n (40M): 10.48dBm
	Output Power (Max.) for UNII-1 ANT 2	802.11a: 15.56dBm 802.11n (20M): 14.46dBm 802.11n (40M): 15.13dBm
	Output Power (Max.) for UNII-3 ANT 2	802.11a: 8.18dBm 802.11n (20M): 7.73dBm 802.11n (40M): 7.67dBm
Power Source	AC Mains.	
Power Rating	AC 100~240 50/60Hz 0.5A	

Note:

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

UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220		
48	5240		

UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755
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	N/A	PCB	N/A	-0.6
2	N/A	N/A	PCB	N/A	-0.43

Note: Equipment with 2 diversity antennas operating in switched diversity mode by which at any moment in time only 1 antenna is used.

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 A Mode / CH149,CH157,CH165 (UNII-3)
Mode 5	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 7	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 7	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 A Mode / CH149,CH157,CH165 (UNII-3)
Mode 5	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 6	TX N40 Mode / CH151,CH159 (UNII-3)

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

3.3 Table of Parameters of TeSt Software Setting

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

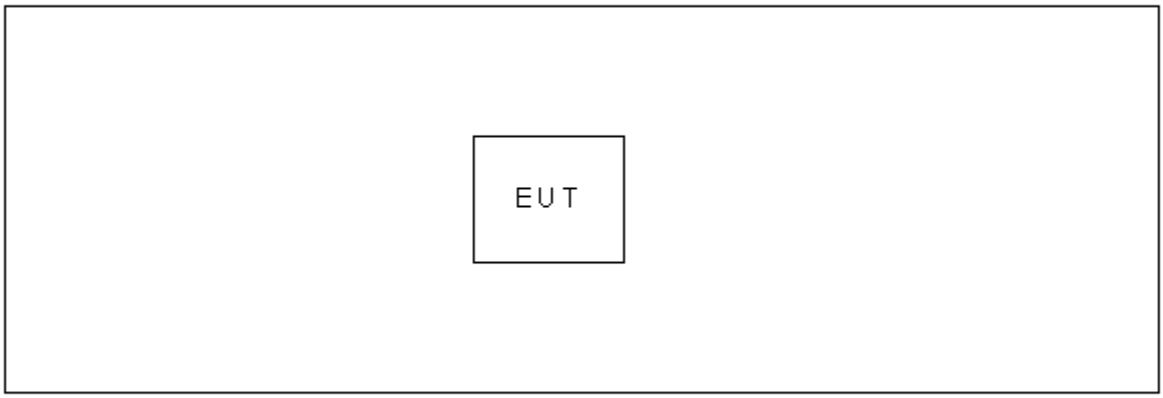
UNII-1 For ANT 1			
Test Software Version	N/A		
Frequency (MHz)	5180	5200	5240
A Mode	41	59	43
N20 Mode	43	57	45
Frequency (MHz)	5190	5230	
N40 Mode	59	57	

UNII-3 For ANT 1			
Test Software Version	N/A		
Frequency (MHz)	5745	5785	5825
A Mode	63	63	63
N20 Mode	63	63	63
Frequency (MHz)	5755	5795	
N40 Mode	63	63	

UNII-1 For ANT 2			
Test Software Version	N/A		
Frequency (MHz)	5180	5200	5240
A Mode	45	57	48
N20 Mode	48	56	50
Frequency (MHz)	5190	5230	
N40 Mode	59	56	

UNII-3 For ANT 2			
Test Software Version	N/A		
Frequency (MHz)	5745	5785	5825
A Mode	63	63	63
N20 Mode	63	63	63
Frequency (MHz)	5755	5795	
N40 Mode	63	63	

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.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

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

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

4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

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

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

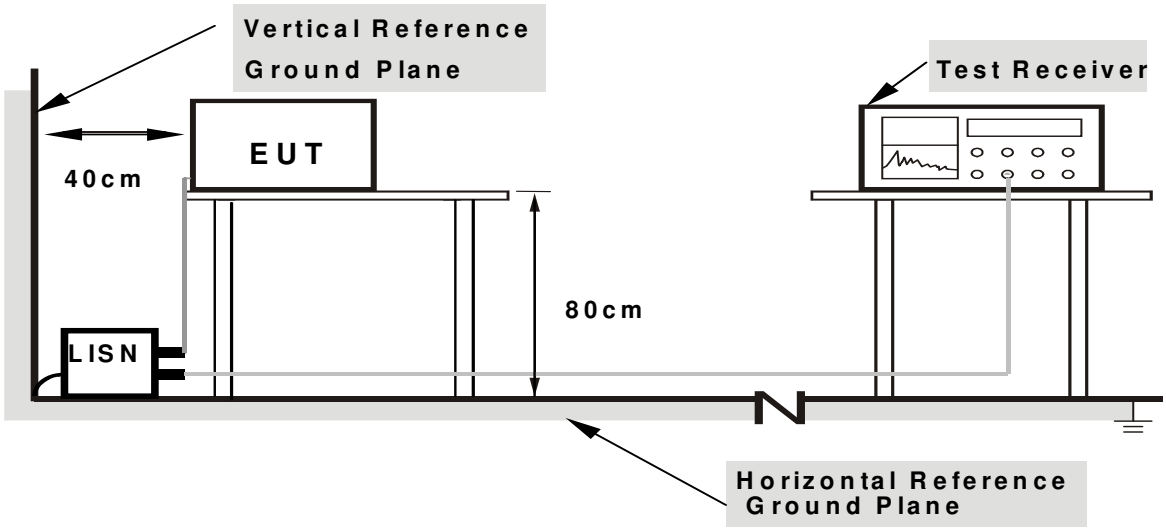
d. LISN at least 80 cm from nearest part of EUT chassis.

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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 Attachment A.

Remark:

(1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn‘t perform.In this case, a “ * ” marked in AVG Mode column of Interference Voltage Measured.
(2) Measuring frequency range from 150kHz to 30MHz.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a) & RSS-247 5.5, then the 15.209(a) & RSS-Gen limit in the table below has to be followed.

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

Note:

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

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

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

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

Note:

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

2. According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below 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

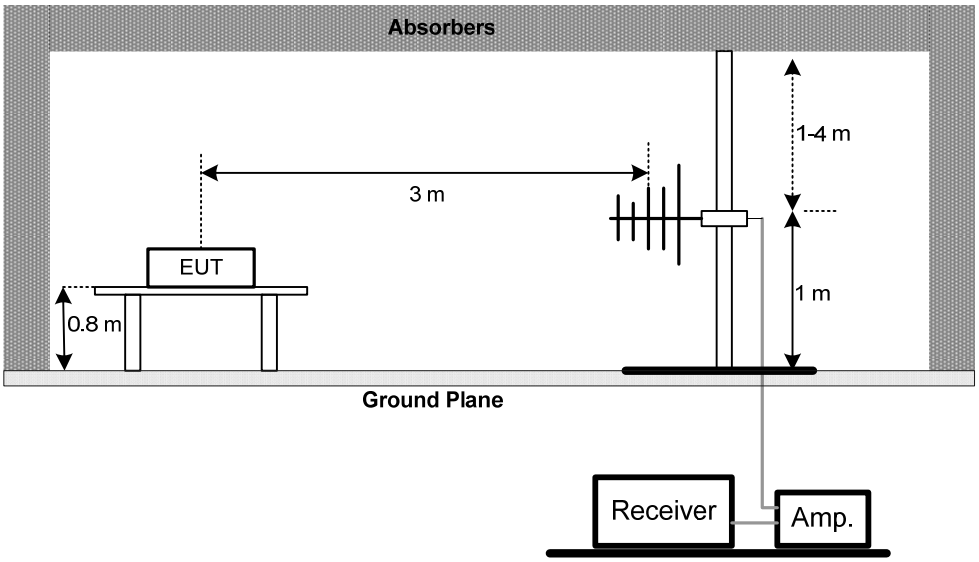
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance 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 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

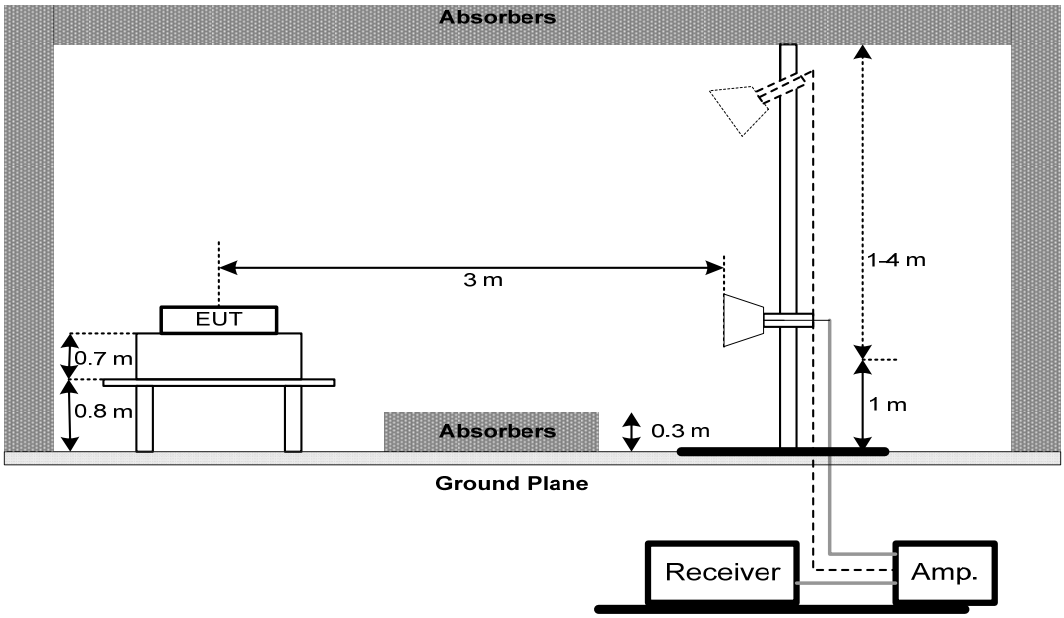
No deviation

4.2.4 TEST SETUP

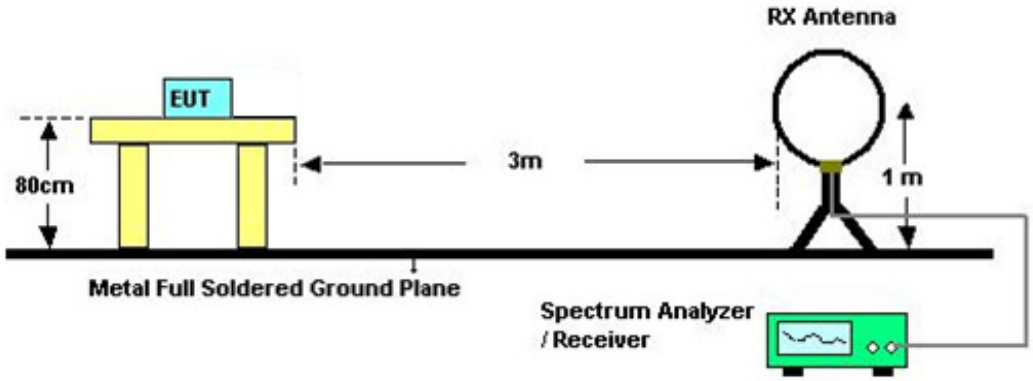
(A)Radiated Emission Test Set-Up Frequency Below 1GHz



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



(C) Radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

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

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (BETWEEN 30 TO 1000 MHz)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Attachment D.

Remark:

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

5. 26dB SPECTRUM BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E / RSS-247			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	26 dB Bandwidth	5150-5250	PASS
	Minimum 500kHz 6dB Bandwidth	5725-5850	PASS

5.1.1 TEST PROCEDURE

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

b.

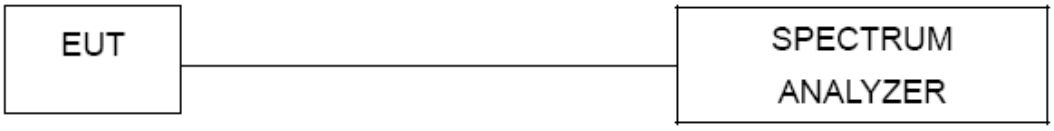
Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	300 kHz
VBW	1000 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

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

RSS-247			
Test Item	Limit	Frequency Range (MHz)	Result
e.i.r.p power	not exceed 200 mW (23dBm)	5150-5250	PASS
	10 + 10 $\log_{10}$ B		
Conducted Output Power	4 Watt (36dBm)	5725-5850	PASS

6.1.1 TEST PROCEDURE

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

b.

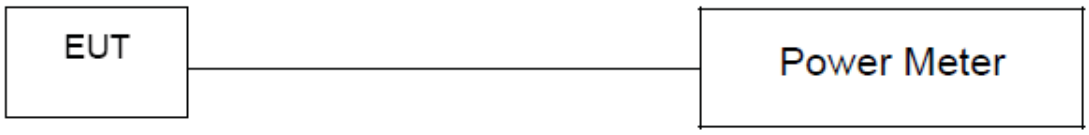
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

c. Test was performed in accordance with method of KDB 789033 D02 v01r02.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E / RSS-247			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	-27dBm/MHz	5150-5250	PASS
	Below -17dBm/MHz within 10MHz of band edge, below -27dBm/MHz beyond 10MHz of the band edge	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,

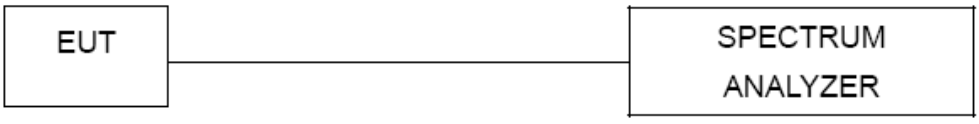
b.

Spectrum Parameter	Setting
Attenuation	Auto
RBW	1000kHz
VBW	1000kHz
Trace	Max Hold
Sweep Time	Auto

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

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

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

RSS-247			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	10dBm/MHz	5150-5250	PASS
	30dBm/500kHz	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	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

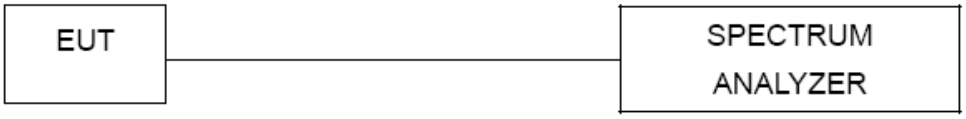
Note:

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

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

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. FREQUENCY STABILITY MEASUREMENT

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E / RSS-247			
Test Item	Limit	Frequency Range (MHz)	Result
Frequency Stability	Specified in the user's manual	5150-5250	PASS
		5725-5850	PASS

9.1.1 TEST PROCEDURE

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

b.

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

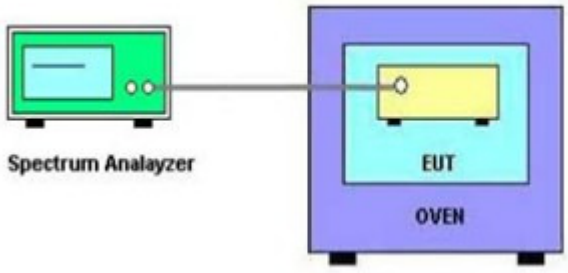
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

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

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 TEST SETUP



9.1.4 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.

9.1.5 EUT TEST CONDITIONS

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

9.1.6 TEST RESULTS

Please refer to the Attachment I.

10. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Antenna	ETS	3115	00075789	Mar. 27, 2017
6	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
7	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
8	Test Cable	emci	EMC104-SM-SM-10000(1GHz－26.5GHz)	C-68	Jun. 28, 2016
9	Controller	CT	SC100	N/A	N/A
10	Position Control	MF	MF-7802	MF780208416	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
14	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	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-SM-9000(0.01GHz－26.5GHz)	C-100	N/A

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 27, 2017
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 27, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-SM-9000(0.01GHz－26.5GHz)	C-100	N/A

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-SM-9000(0.01GHz－26.5GHz)	C-100	N/A

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Feb. 26, 2017
2	Test Cable	N/A	RG316	Cable4-001	Jul. 15, 2016
3	Const Temp. & Humidity Chamber	GIANT FORCE	ITH-225-20-S	IAB0309-001	Dec.04, 2016
4	DC power supply	GW Instek	GPC-3030DN	EK880675	Oct. 13, 2016

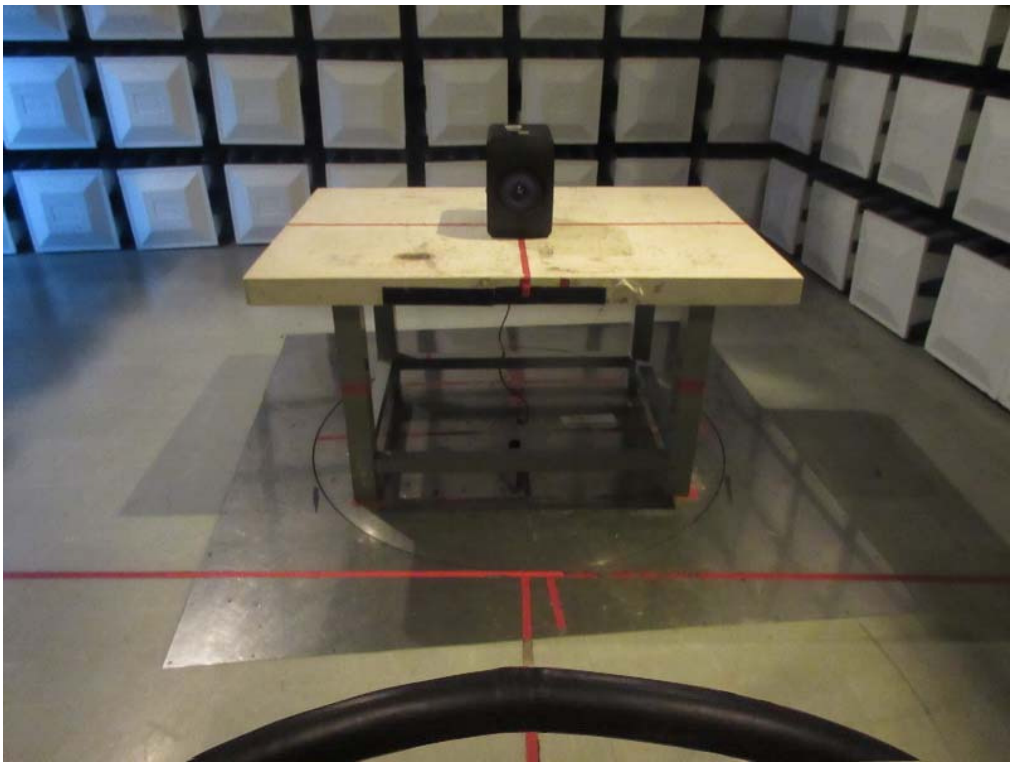
Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

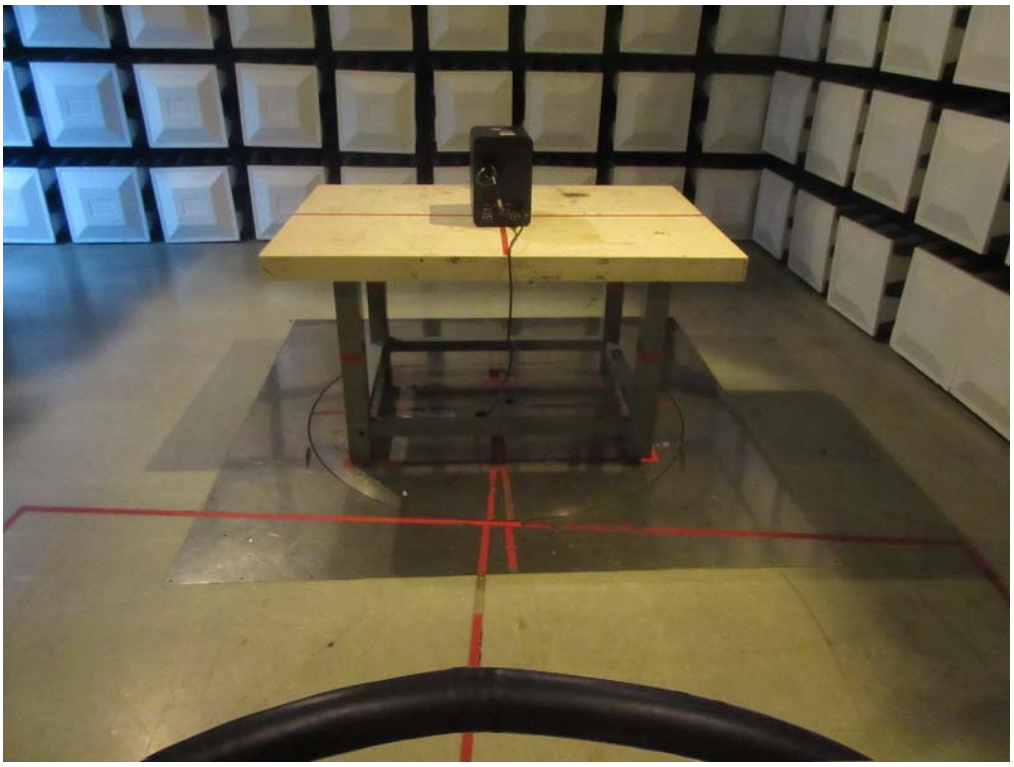
11. EUT TEST PHOTO

Conducted Measurement Photos

Radiated Measurement Photos

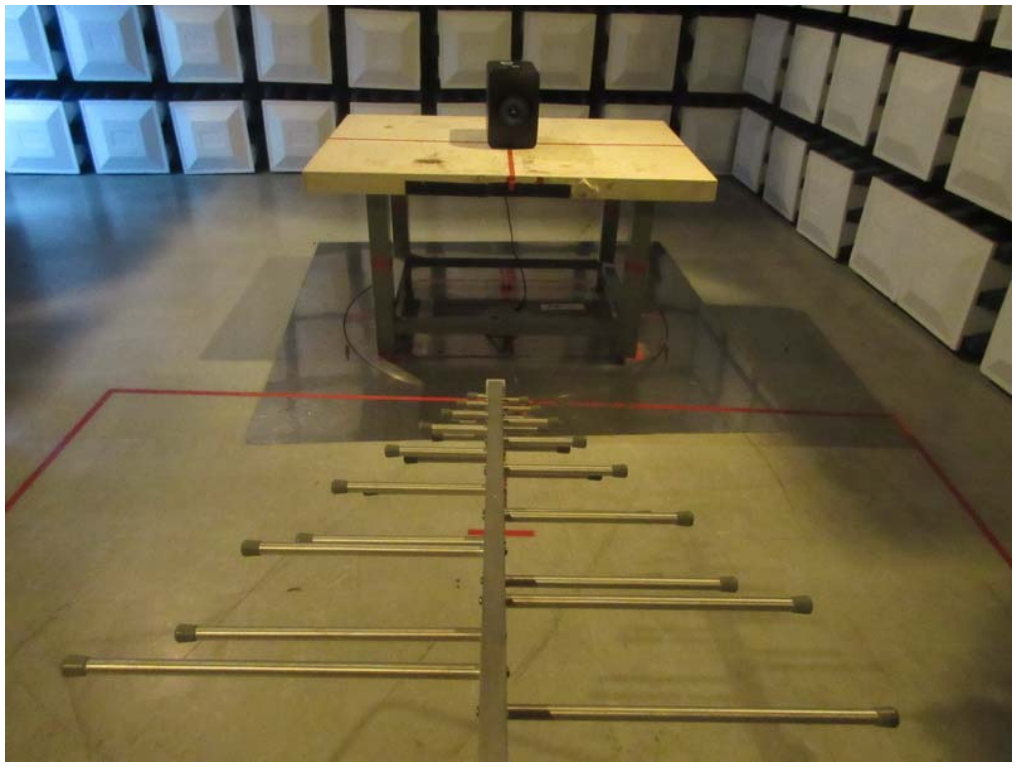
9KHz to 30MHz

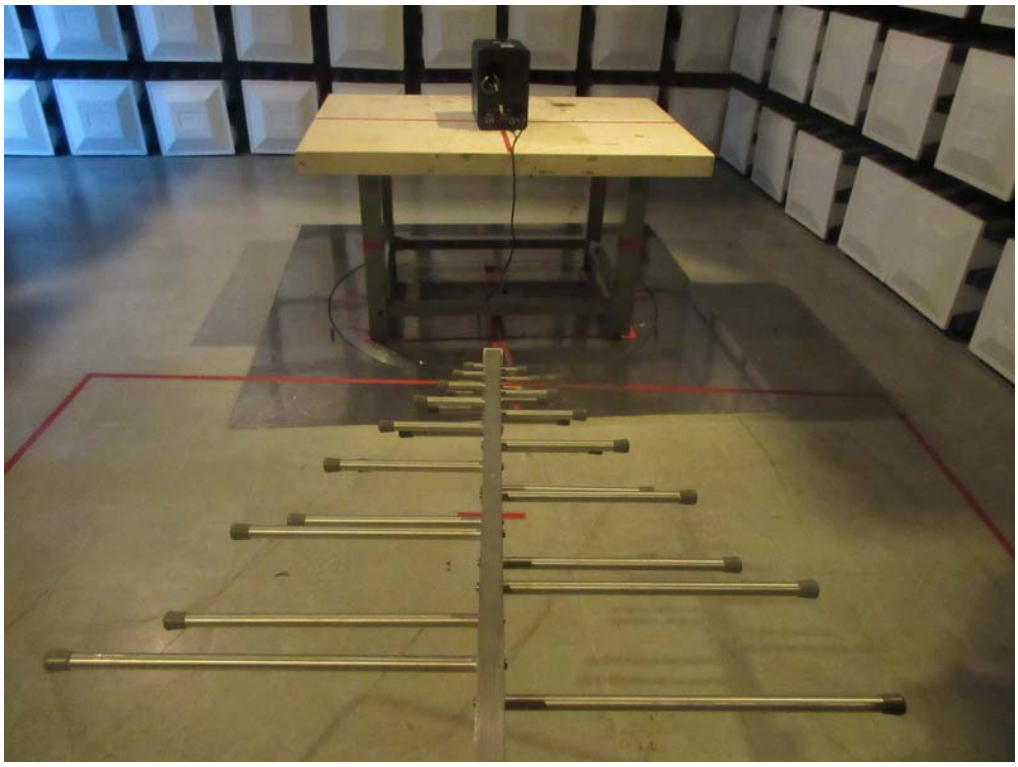




Radiated Measurement Photos

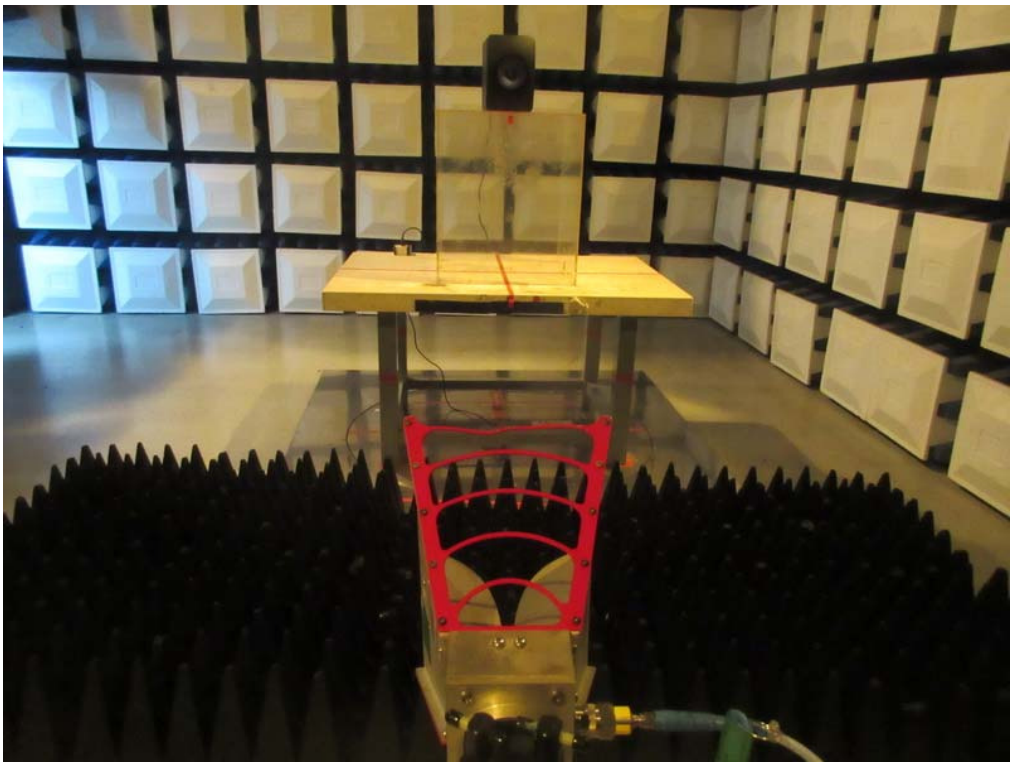
30MHz to 1000MHz

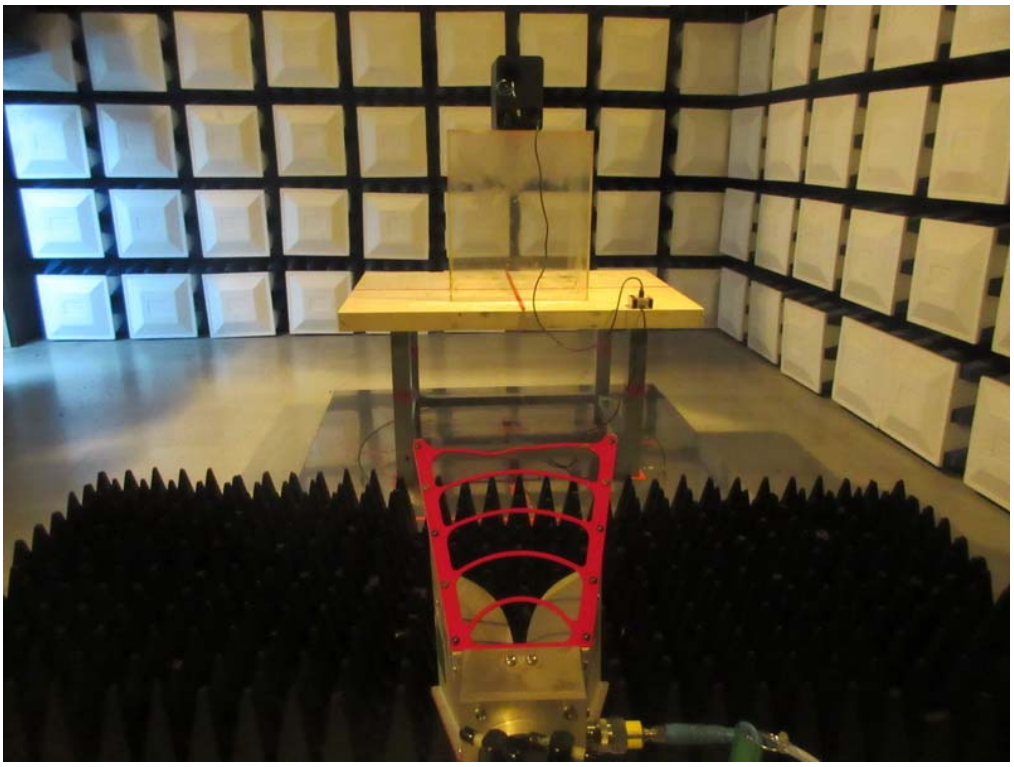




Radiated Measurement Photos

Above 1000MHz



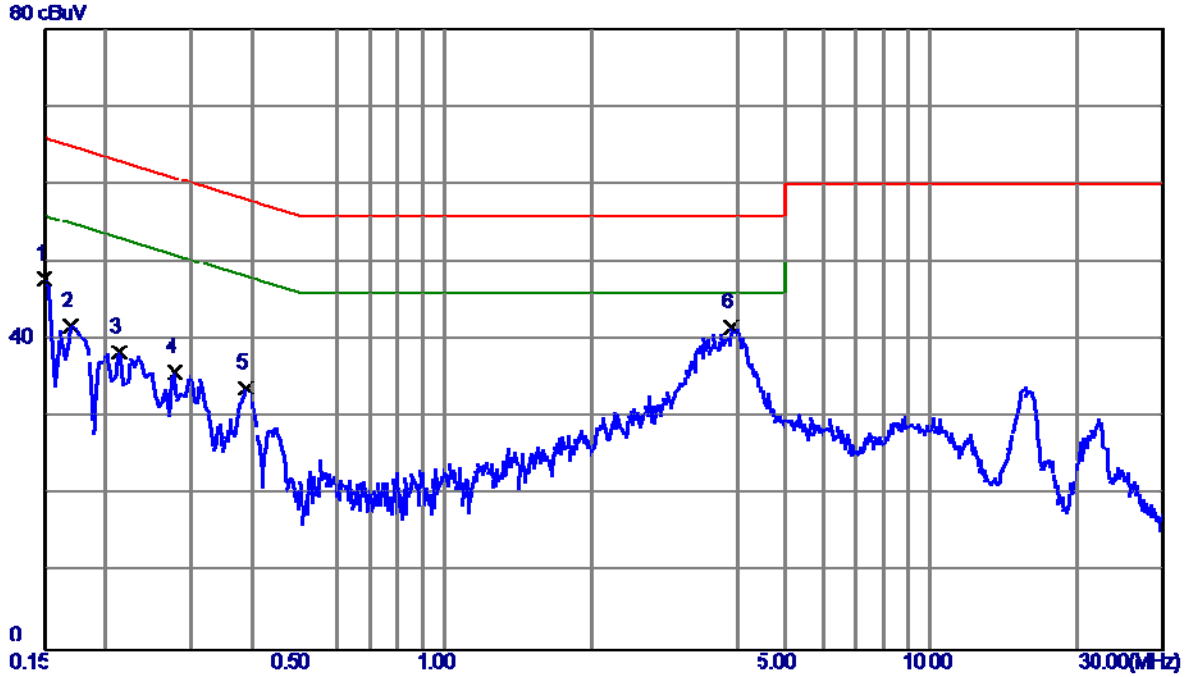


ATTACHMENT A - CONDUCTED EMISSION

For ANT 1

Test Mode:	TX MODE

Line

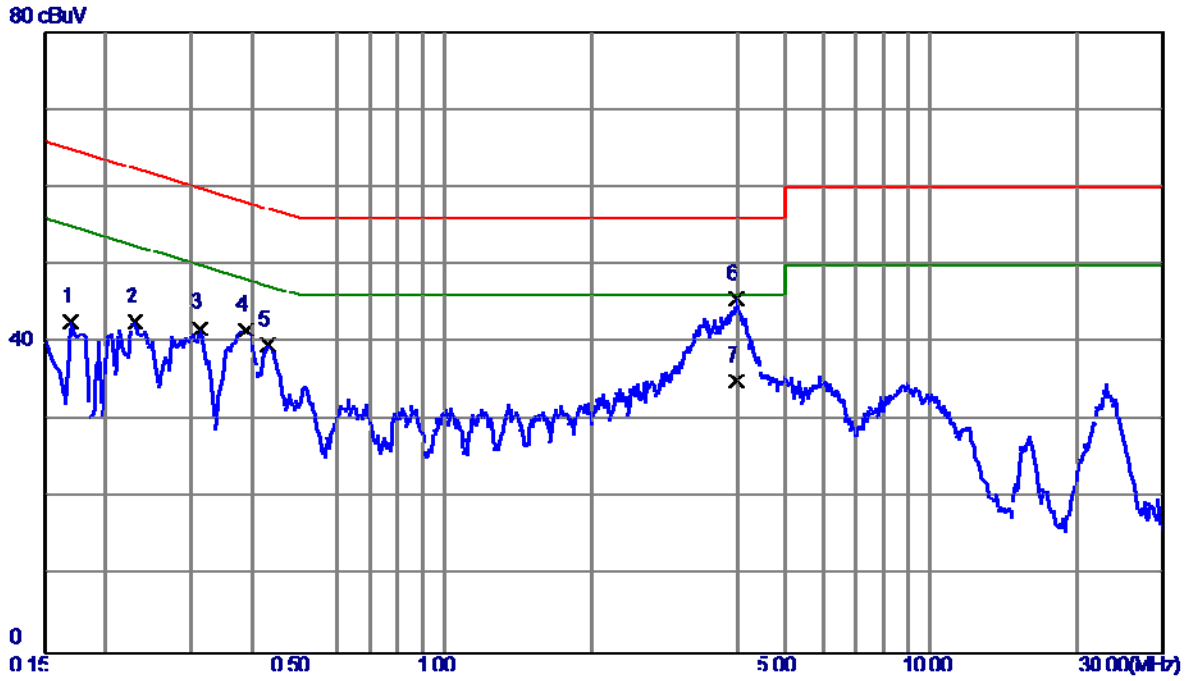


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	38.38	9.52	47.90	66.00	-18.10	Peak	
2	0.1700	32.25	9.52	41.77	64.96	-23.19	Peak	
3	0.2140	28.90	9.53	38.43	63.05	-24.62	Peak	
4	0.2779	26.24	9.53	35.77	60.88	-25.11	Peak	
5	0.3899	24.17	9.54	33.71	58.07	-24.36	Peak	
6 *	3.8980	31.42	10.18	41.60	56.00	-14.40	Peak	

Note：The test result has included the cable loss.

Test Mode:	TX MODE

Neutral



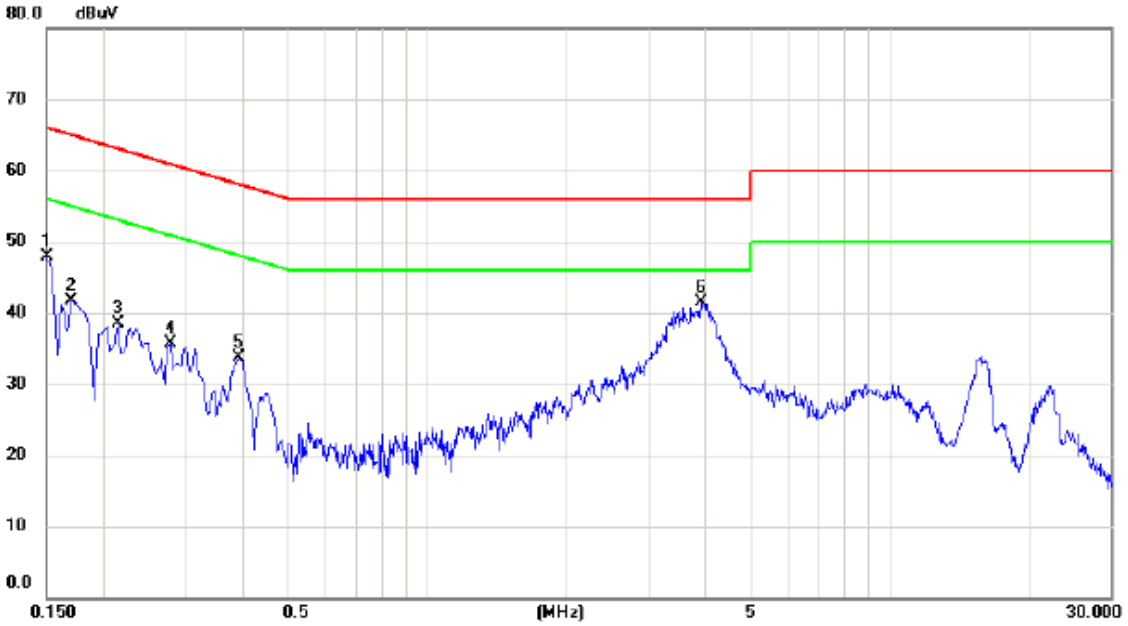
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1700	33.31	9.42	42.73	64.96	-22.23	Peak	
2	0.2300	33.23	9.53	42.76	62.45	-19.69	Peak	
3	0.3140	32.31	9.53	41.84	59.86	-18.02	Peak	
4	0.3899	32.09	9.46	41.55	58.07	-16.52	Peak	
5	0.4340	30.26	9.44	39.70	57.18	17.48	Peak	
6 *	3.9780	35.77	9.89	45.66	56.00	-10.34	Peak	
7	3.9780	25.20	9.89	35.09	46.00	-10.91	AVG	

Note：The test result has included the cable loss.

For ANT 2

Test Mode:	TX MODE

Line

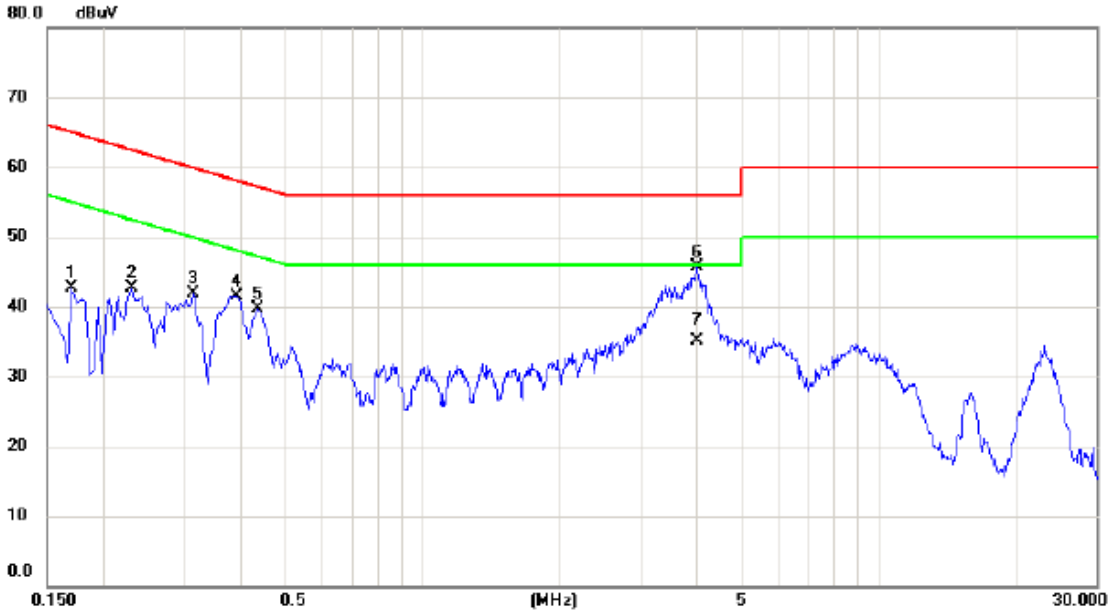


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	38.38	9.52	47.90	66.00	-18.10	peak	
2		0.1700	32.25	9.52	41.77	64.96	-23.19	peak	
3		0.2140	28.90	9.53	38.43	63.05	-24.62	peak	
4		0.2780	26.24	9.53	35.77	60.88	-25.11	peak	
5		0.3900	24.17	9.54	33.71	58.06	-24.35	peak	
6	*	3.8980	31.42	10.18	41.60	56.00	-14.40	peak	

Note：The test result has included the cable loss.

Test Mode:	TX MODE

Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1700	33.31	9.42	42.73	64.96	-22.23	peak	
2		0.2300	33.23	9.53	42.76	62.45	-19.69	peak	
3		0.3140	32.31	9.53	41.84	59.86	-18.02	peak	
4		0.3900	32.09	9.46	41.55	58.06	-16.51	peak	
5		0.4340	30.26	9.44	39.70	57.18	-17.48	peak	
6	*	3.9780	35.77	9.89	45.66	56.00	-10.34	peak	
7		3.9780	25.20	9.89	35.09	46.00	-10.91	AVG	

Note：The test result has included the cable loss.

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

For ANT 1

Test Mode:	TX A Mode 5180MHz

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0096	0°	13.37	24.9587	38.3287	127.9588	-89.6301	AVG
0.0096	0°	14.26	24.9587	39.2187	147.9588	-108.7401	PEAK
0.0281	0°	6.7	23.7870	30.4870	118.6301	-88.1431	AVG
0.0281	0°	8.1	23.7870	31.8870	138.6301	-106.7431	PEAK
0.0365	0°	3.15	23.2550	26.4050	116.3584	-89.9534	AVG
0.0365	0°	5.52	23.2550	28.7750	136.3584	-107.5834	PEAK
0.0583	0°	1.14	22.2340	23.3740	112.2909	-88.9169	AVG
0.0583	0°	2.5	22.2340	24.7340	132.2909	-107.5569	PEAK
0.5094	0°	19.32	19.8301	39.1501	73.4630	-34.3130	QP
1.952	0°	23.67	19.5048	43.1748	69.5400	-26.3652	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0124	90°	13.11	24.3000	37.4100	125.7358	-88.3258	AVG
0.0124	90°	14.81	24.3000	39.1100	145.7358	-106.6258	PEAK
0.0262	90°	7.26	23.9073	31.1673	119.2382	-88.0709	AVG
0.0262	90°	8.9	23.9073	32.8073	139.2382	-106.4309	PEAK
0.0431	90°	5.2	22.8370	28.0370	114.9147	-86.8777	AVG
0.0431	90°	6.16	22.8370	28.9970	134.9147	-105.9177	PEAK
0.0582	90°	1.52	22.2360	23.7560	112.3058	-88.5498	AVG
0.0582	90°	2.83	22.2360	25.0660	132.3058	-107.2398	PEAK
0.6211	90°	22.16	20.1875	42.3475	71.7410	-29.3935	QP
2.054	90°	24.52	19.4676	43.9876	69.5400	-25.5524	QP

For ANT 2

Test Mode:	TX A Mode 5180MHz

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0094	0°	13.30	24.97	38.27	128.14	-89.87	AVG
0.0094	0°	14.24	24.97	39.21	148.14	-108.93	PEAK
0.0280	0°	6.76	23.79	30.55	118.66	-88.11	AVG
0.0280	0°	8.15	23.79	31.94	138.66	-106.72	PEAK
0.0363	0°	3.17	23.27	26.44	116.41	-89.97	AVG
0.0363	0°	5.50	23.27	28.77	136.41	-107.64	PEAK
0.0582	0°	1.18	22.24	23.42	112.31	-88.89	AVG
0.0582	0°	2.57	22.24	24.81	132.31	-107.50	PEAK
0.5091	0°	19.35	19.83	39.18	73.47	-34.29	QP
1.9519	0°	23.60	19.50	43.10	69.54	-26.44	QP

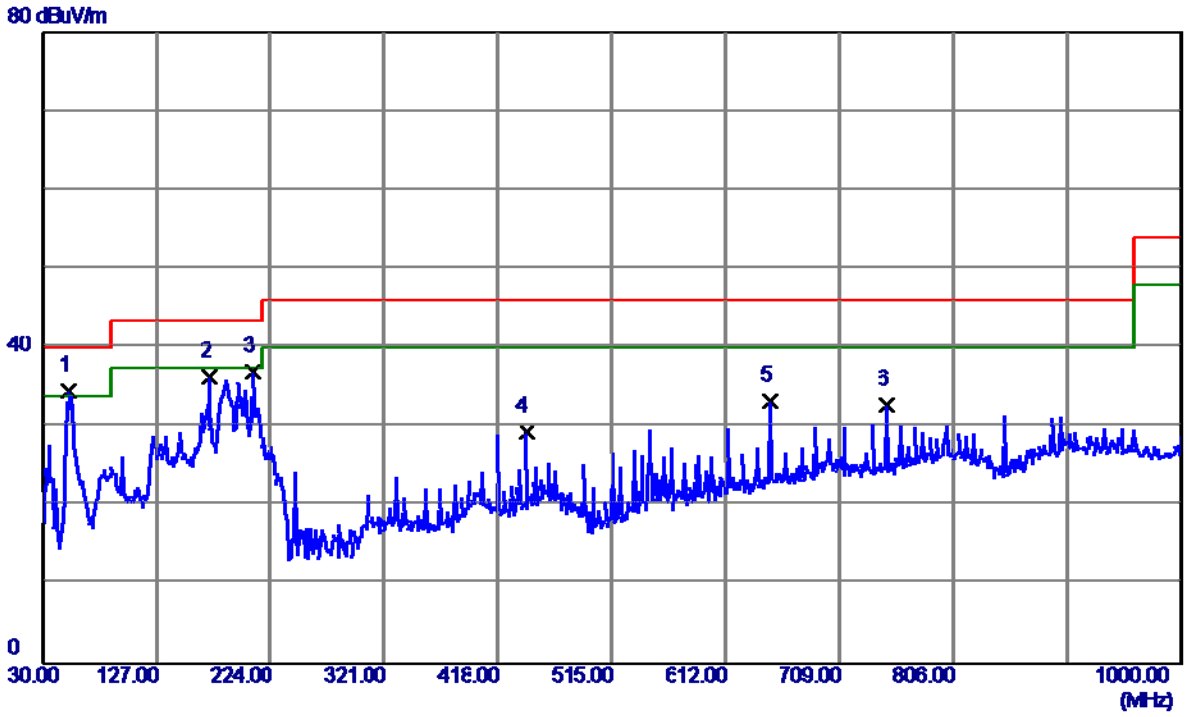
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0122	90°	13.10	24.30	37.40	125.88	-88.48	AVG
0.0122	90°	14.79	24.30	39.09	145.88	-106.79	PEAK
0.0260	90°	7.28	23.92	31.20	119.30	-88.10	AVG
0.0260	90°	8.92	23.92	32.84	139.30	-106.46	PEAK
0.0429	90°	5.24	22.85	28.09	114.96	-86.87	AVG
0.0429	90°	6.18	22.85	29.03	134.96	-105.93	PEAK
0.0580	90°	1.50	22.24	23.74	112.34	-88.60	AVG
0.0580	90°	2.84	22.24	25.08	132.34	-107.26	PEAK
0.6209	90°	22.15	20.19	42.34	71.74	-29.41	QP
2.0537	90°	24.50	19.47	43.97	69.54	-25.57	QP

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

For ANT 1

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

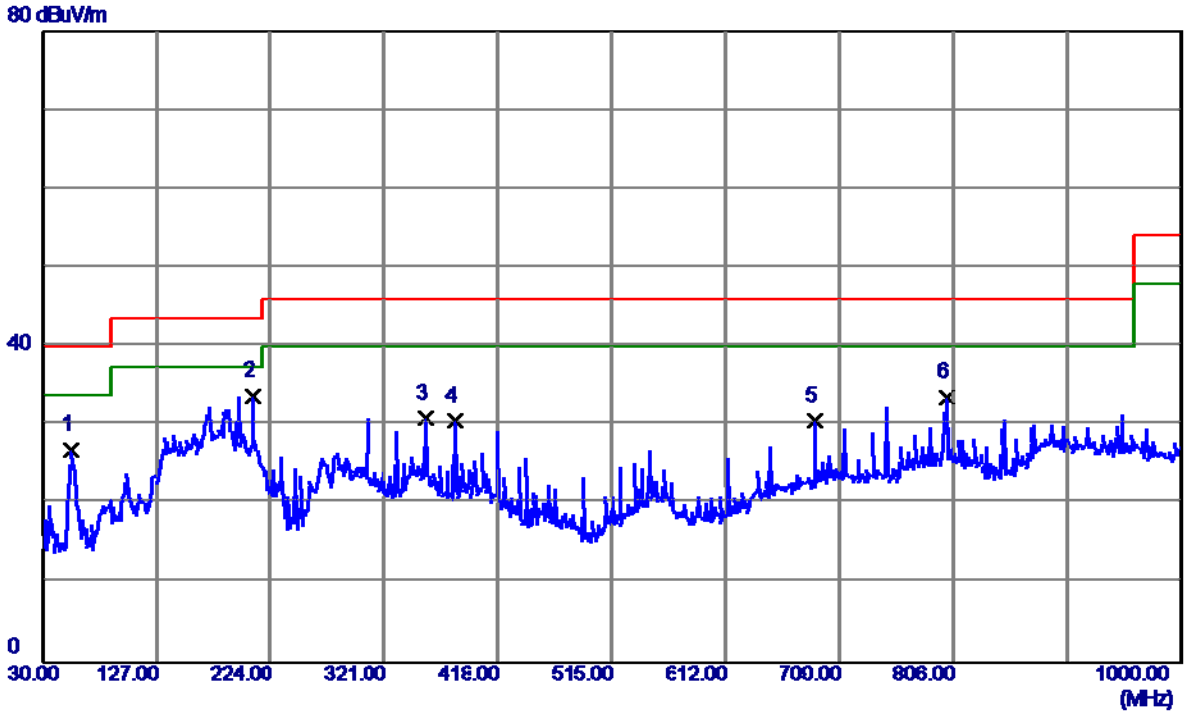
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	52.3100	48.41	-13.80	34.61	40.00	-5.39	Peak	
2	172.1050	48.72	-12.43	36.29	43.50	-7.21	Peak	
3	208.9650	51.77	-14.75	37.02	43.50	-6.48	Peak	
4	442.2500	37.89	-8.53	29.36	46.00	-16.64	Peak	
5	649.8300	38.27	-5.05	33.22	46.00	-12.78	Peak	
6	750.2250	35.69	-2.92	32.77	46.00	-13.23	Peak	

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

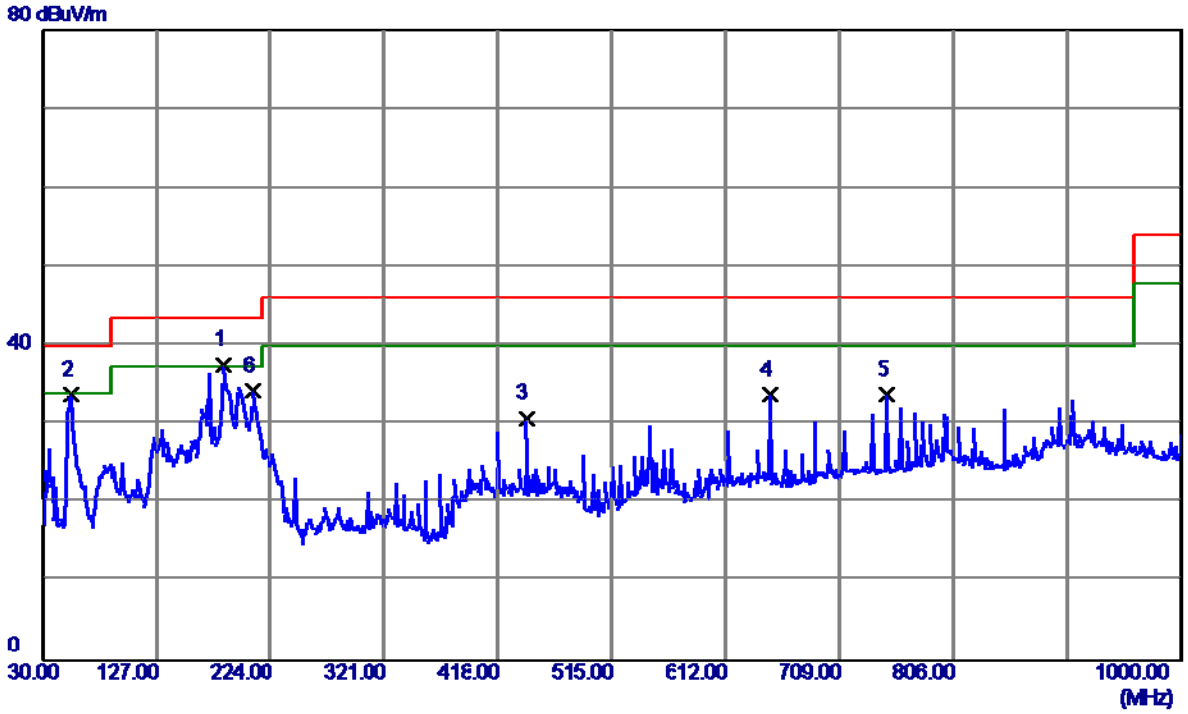
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	54.7350	40.24	-13.41	26.83	40.00	-13.17	Peak	
2 *	208.9650	48.58	-14.75	33.83	43.50	-9.67	Peak	
3	356.4050	42.07	-11.19	30.88	46.00	-15.12	Peak	
4	381.1400	40.12	-9.53	30.59	46.00	-15.41	Peak	
5	688.1450	34.08	-3.49	30.59	46.00	-15.41	Peak	
6	800.1800	34.39	-0.75	33.64	46.00	-12.36	Peak	

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

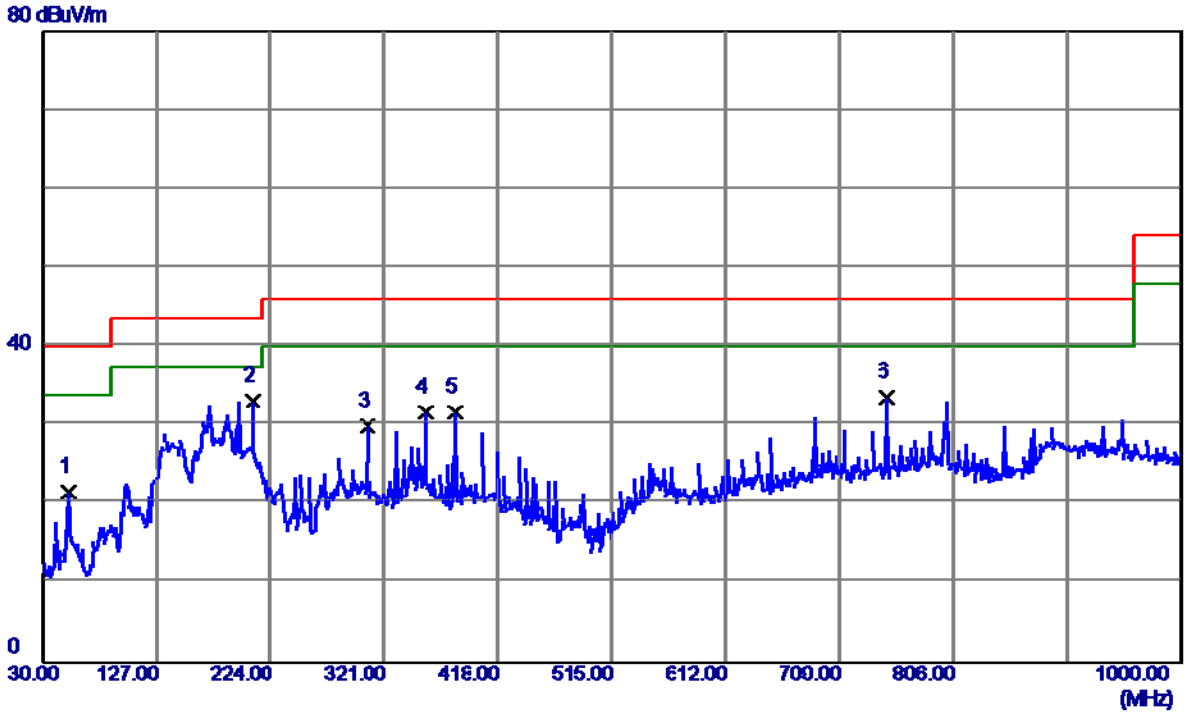
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	184.2300	50.92	-13.39	37.53	43.50	-5.97	Peak	
2	55.2200	47.03	-13.33	33.70	40.00	-6.30	Peak	
3	442.2500	39.29	-8.53	30.76	46.00	-15.24	Peak	
4	649.8300	38.74	-5.05	33.69	46.00	-12.31	Peak	
5	750.2250	36.62	-2.92	33.70	46.00	-12.30	Peak	
6	208.9650	49.04	-14.75	34.29	43.50	-9.21	Peak	

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

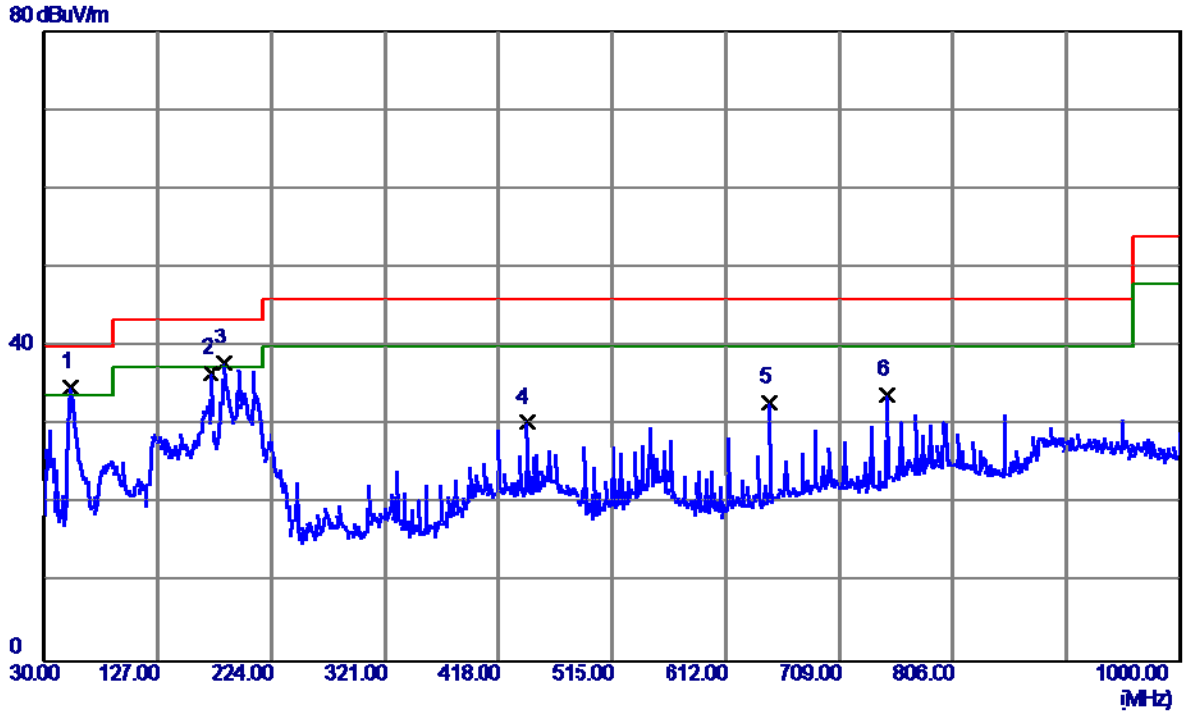
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	52.3100	35.33	-13.80	21.53	40.00	-18.47	Peak	
2 *	208.9650	47.93	-14.75	33.18	43.50	-10.32	Peak	
3	307.4200	40.49	-10.63	29.86	46.00	-16.14	Peak	
4	356.4050	42.83	-11.19	31.64	46.00	-14.36	Peak	
5	381.1400	41.19	-9.53	31.66	46.00	-14.34	Peak	
6	750.2250	36.56	-2.92	33.64	46.00	-12.36	Peak	

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

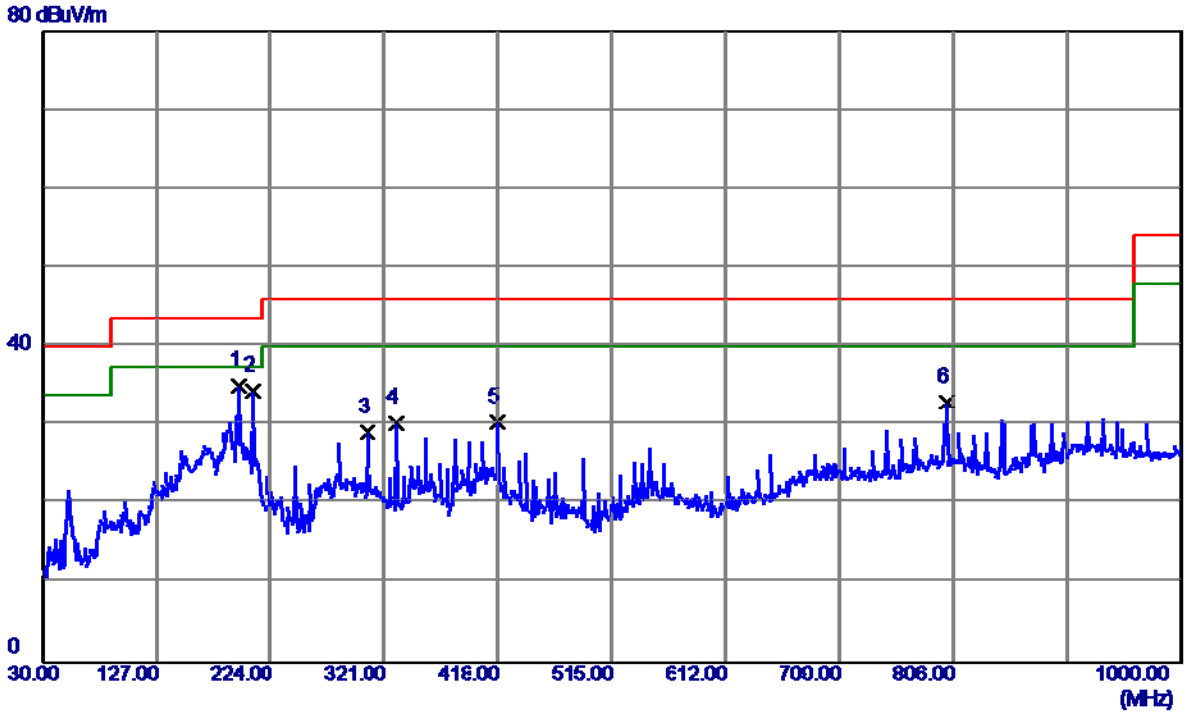
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	52.3100	48.71	-13.80	34.91	40.00	-5.09	Peak	
2	172.1050	49.05	-12.43	36.62	43.50	-6.88	Peak	
3	184.2300	51.32	-13.39	37.93	43.50	-5.57	Peak	
4	442.2500	38.93	-8.53	30.40	46.00	-15.60	Peak	
5	649.8300	38.04	-5.05	32.99	46.00	-13.01	Peak	
6	750.2250	36.90	-2.92	33.98	46.00	-12.02	Peak	

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

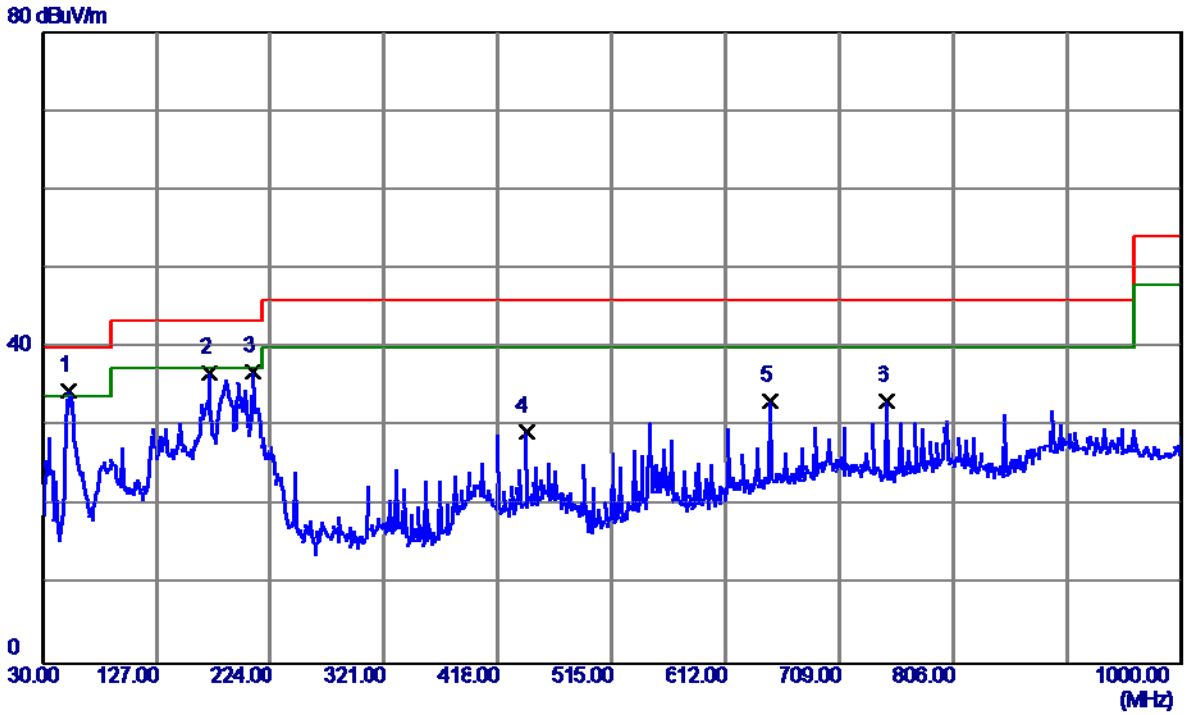
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	196.8400	49.39	-14.38	35.01	43.50	-8.49	Peak	
2	208.9650	49.20	-14.75	34.45	43.50	-9.05	Peak	
3	307.4200	39.81	-10.63	29.18	46.00	-16.82	Peak	
4	331.6700	41.51	-11.19	30.32	46.00	-15.68	Peak	
5	418.0000	38.71	-8.38	30.33	46.00	-15.67	Peak	
6	800.1800	33.71	-0.75	32.96	46.00	-13.04	Peak	

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

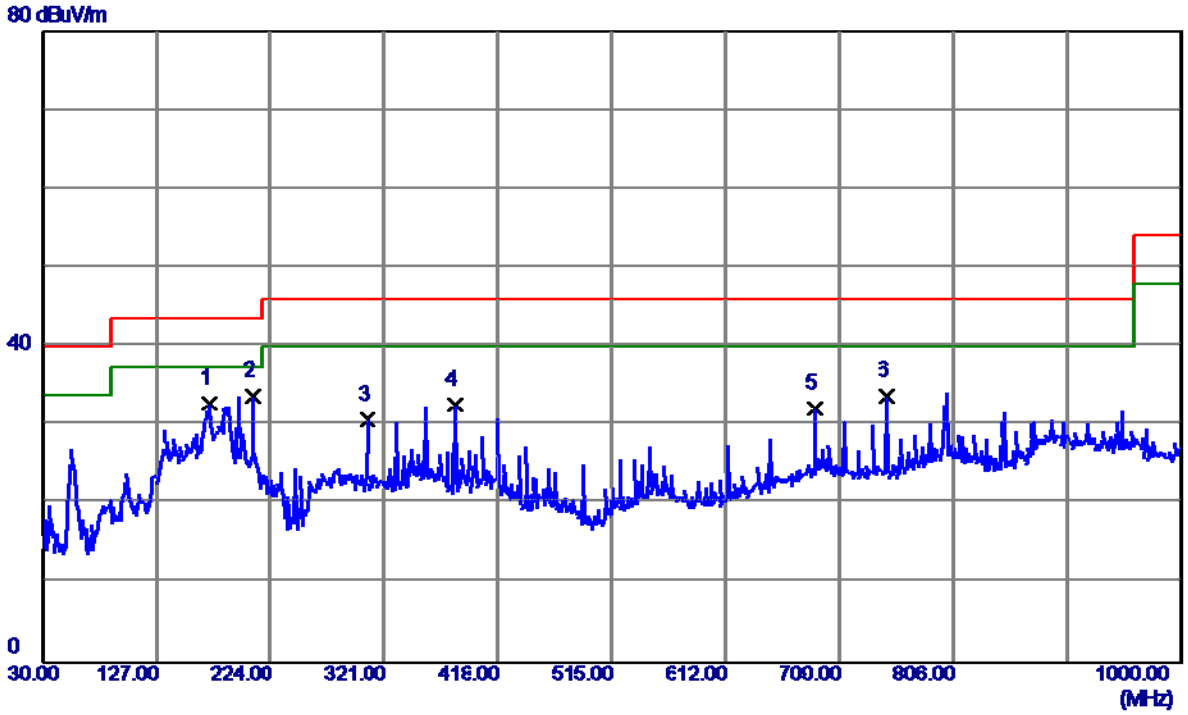
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MIlz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	52.3100	48.41	-13.80	34.61	40.00	-5.39	Peak	
2	172.1050	49.22	-12.43	36.79	43.50	-6.71	Peak	
3	208.9650	51.77	-14.75	37.02	43.50	-6.48	Peak	
4	442.2500	37.89	-8.53	29.36	46.00	-16.64	Peak	
5	649.8300	38.27	-5.05	33.22	46.00	-12.78	Peak	
6	750.2250	36.19	-2.92	33.27	46.00	-12.73	Peak	

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

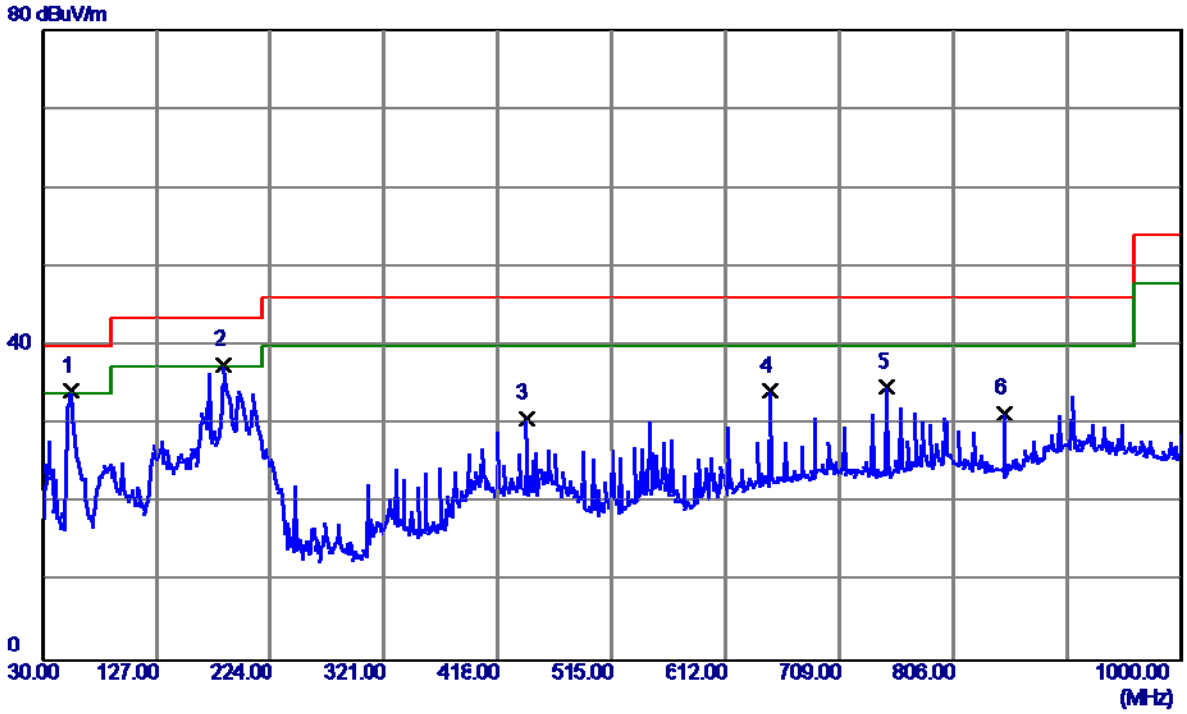
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MIIz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	172.1050	45.21	-12.43	32.78	43.50	-10.72	Peak	
2 *	208.9650	48.58	-14.75	33.83	43.50	-9.67	Peak	
3	307.4200	41.40	-10.63	30.77	46.00	-15.23	Peak	
4	381.1400	42.12	-9.53	32.59	46.00	-13.41	Peak	
5	688.1450	35.58	-3.49	32.09	46.00	-13.91	Peak	
6	750.2250	36.73	-2.92	33.81	46.00	-12.19	Peak	

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

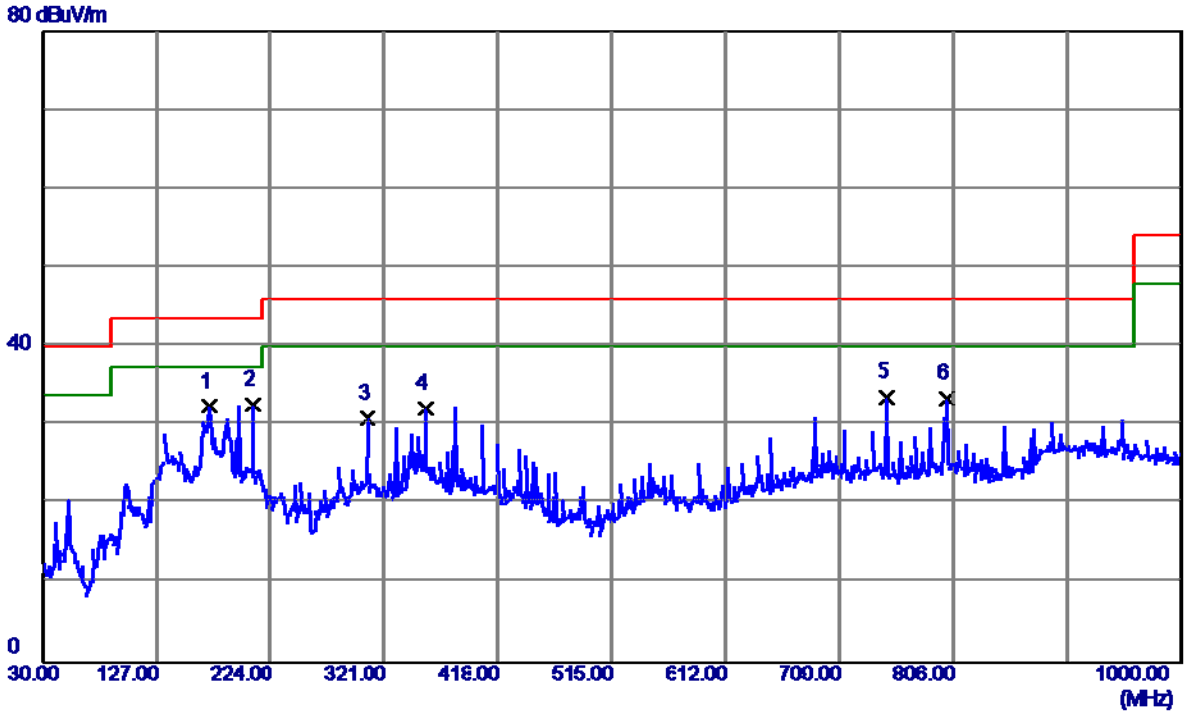
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	55.2200	47.53	-13.33	34.20	40.00	-5.80	Peak	
2	184.2300	50.92	-13.39	37.53	43.50	-5.97	Peak	
3	442.2500	39.29	-8.53	30.76	46.00	-15.24	Peak	
4	649.8300	39.24	-5.05	34.19	46.00	-11.81	Peak	
5	750.2250	37.62	-2.92	34.70	46.00	-11.30	Peak	
6	850.1350	33.65	-2.28	31.37	46.00	-14.63	Peak	

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

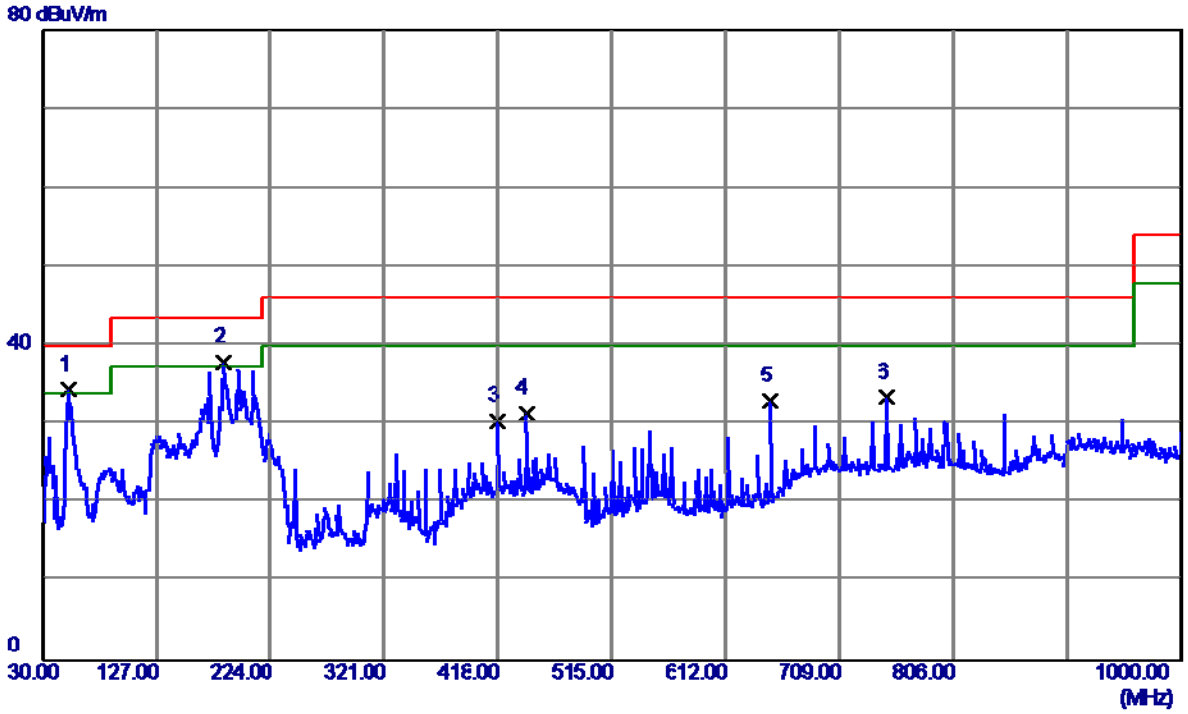
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	172.1050	44.83	-12.43	32.40	43.50	-11.10	Peak	
2 *	208.9650	47.43	-14.75	32.68	43.50	-10.82	Peak	
3	307.4200	41.49	-10.63	30.86	46.00	-15.14	Peak	
4	356.4050	43.33	-11.19	32.14	46.00	-13.86	Peak	
5	750.2250	36.56	-2.92	33.64	46.00	-12.36	Peak	
6	800.1800	34.23	-0.75	33.48	46.00	-12.52	Peak	

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

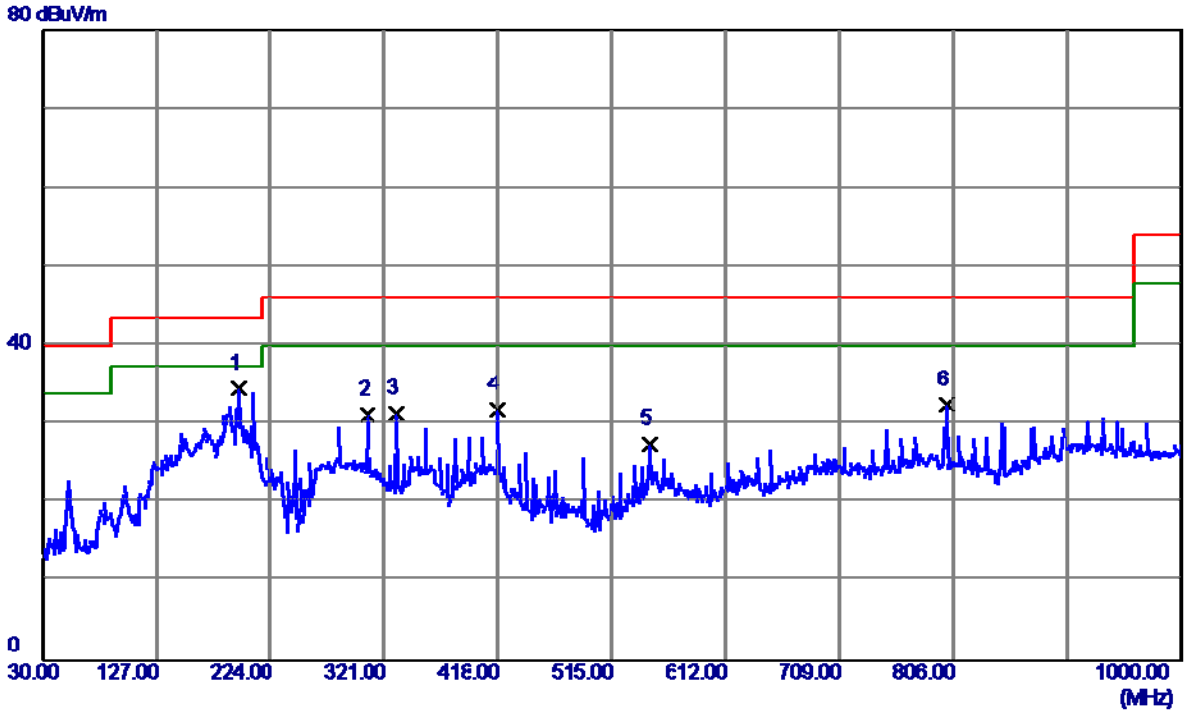
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	52.3100	48.21	-13.80	34.41	40.00	-5.59	Peak	
2 *	184.2300	51.32	-13.39	37.93	43.50	-5.57	Peak	
3	418.0000	38.72	-8.38	30.34	46.00	-15.66	Peak	
4	442.2500	39.93	-8.53	31.40	46.00	-14.60	Peak	
5	649.8300	38.04	-5.05	32.99	46.00	-13.01	Peak	
6	750.2250	36.40	-2.92	33.48	46.00	-12.52	Peak	

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

Horizontal

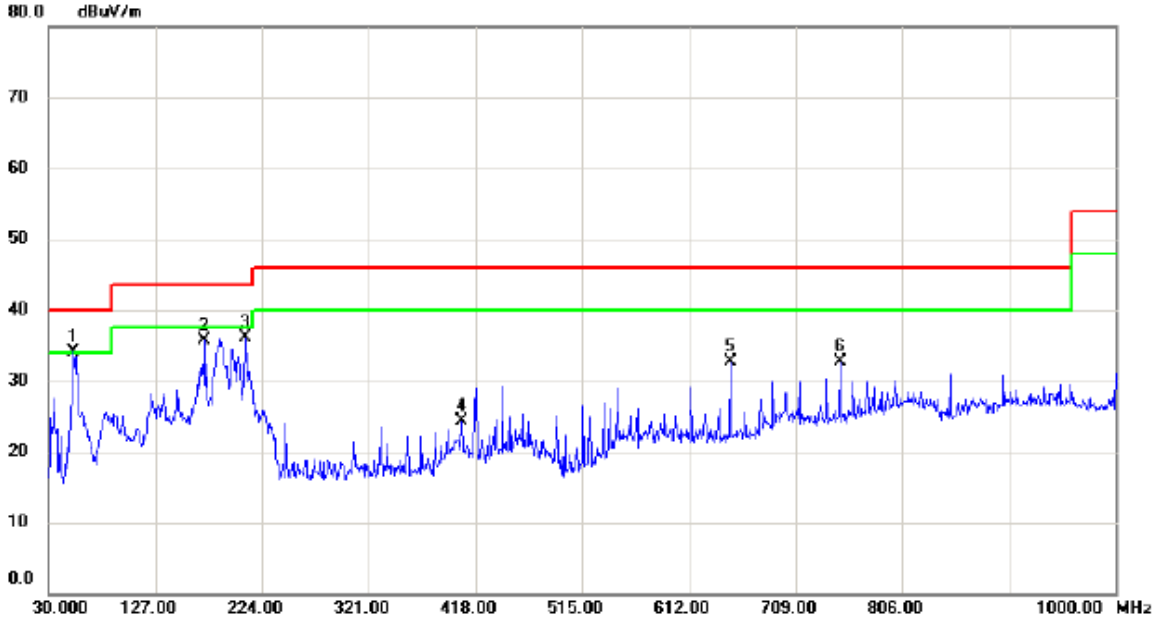


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	196.8400	48.89	-14.38	34.51	43.50	-8.99	Peak	
2	307.4200	41.81	-10.63	31.18	46.00	-14.82	Peak	
3	331.6700	42.51	-11.19	31.32	46.00	-14.68	Peak	
4	418.0000	40.21	-8.38	31.83	46.00	-14.17	Peak	
5	547.0100	33.14	-5.58	27.56	46.00	-18.44	Peak	
6	800.1800	33.21	-0.75	32.46	46.00	-13.54	Peak	

For ANT 2

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

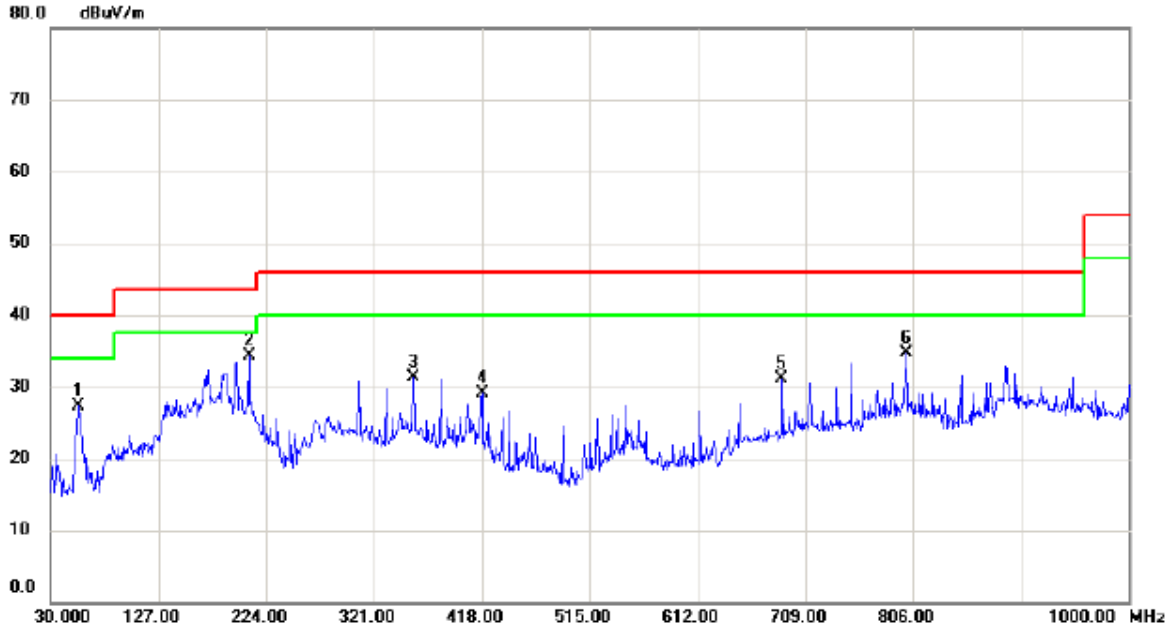
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	52.3100	47.90	-13.79	34.11	40.00	-5.89	peak	
2		172.1050	48.22	-12.43	35.79	43.50	-7.71	peak	
3		208.9650	50.77	-14.75	36.02	43.50	-7.48	peak	
4		405.3900	32.53	-8.30	24.23	46.00	-21.77	peak	
5		649.8300	37.77	-5.05	32.72	46.00	-13.28	peak	
6		750.2250	35.68	-2.91	32.77	46.00	-13.23	peak	

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

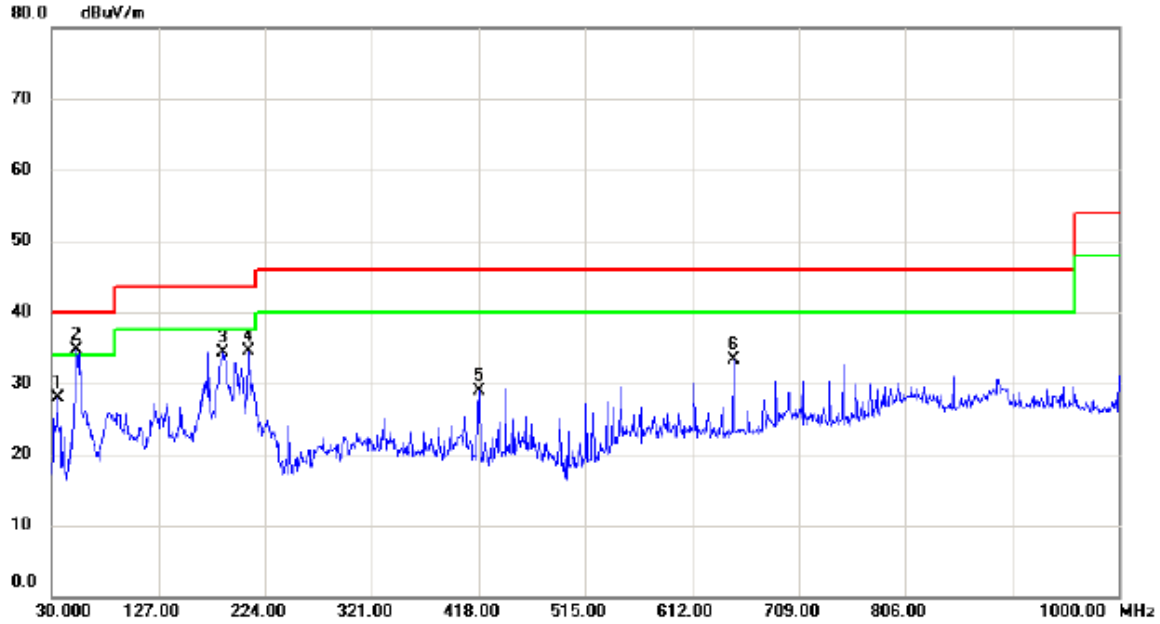
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		54.7350	40.74	-13.41	27.33	40.00	-12.67	peak	
2	*	208.9650	49.08	-14.75	34.33	43.50	-9.17	peak	
3		356.4050	42.56	-11.18	31.38	46.00	-14.62	peak	
4		418.0000	37.52	-8.37	29.15	46.00	-16.85	peak	
5		688.1450	34.58	-3.49	31.09	46.00	-14.91	peak	
6		800.1800	35.39	-0.75	34.64	46.00	-11.36	peak	

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

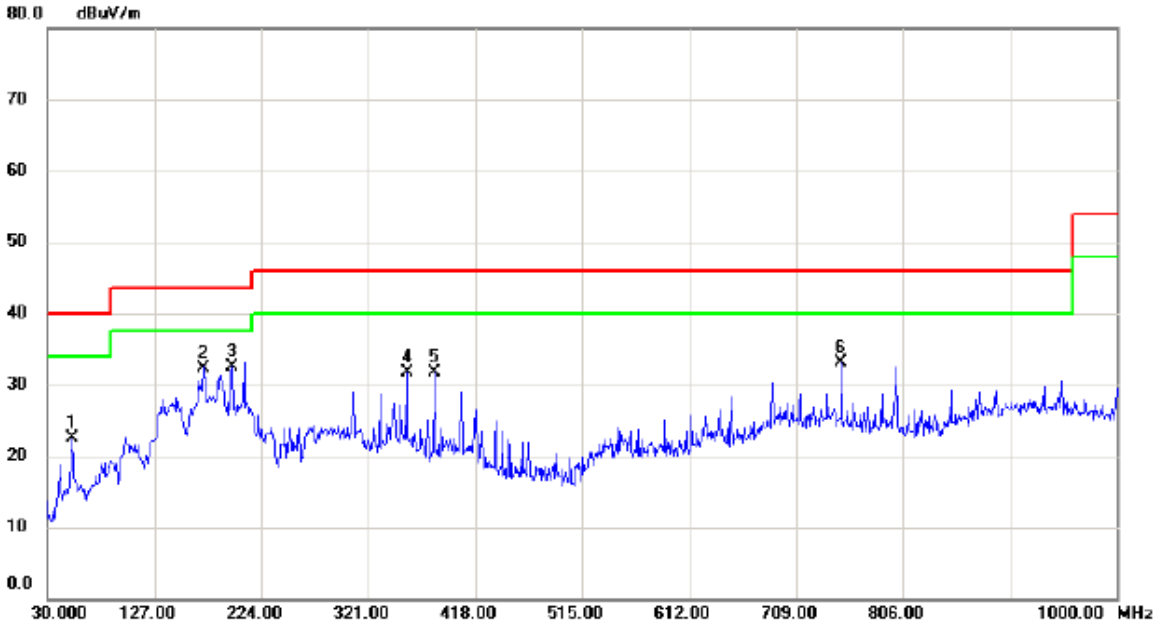
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		35.3350	41.75	-13.81	27.94	40.00	-12.06	peak	
2	*	52.3100	48.40	-13.79	34.61	40.00	-5.39	peak	
3		186.1700	47.91	-13.61	34.30	43.50	-9.20	peak	
4		208.9650	49.27	-14.75	34.52	43.50	-8.98	peak	
5		418.0000	37.24	-8.37	28.87	46.00	-17.13	peak	
6		649.8300	38.27	-5.05	33.22	46.00	-12.78	peak	

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

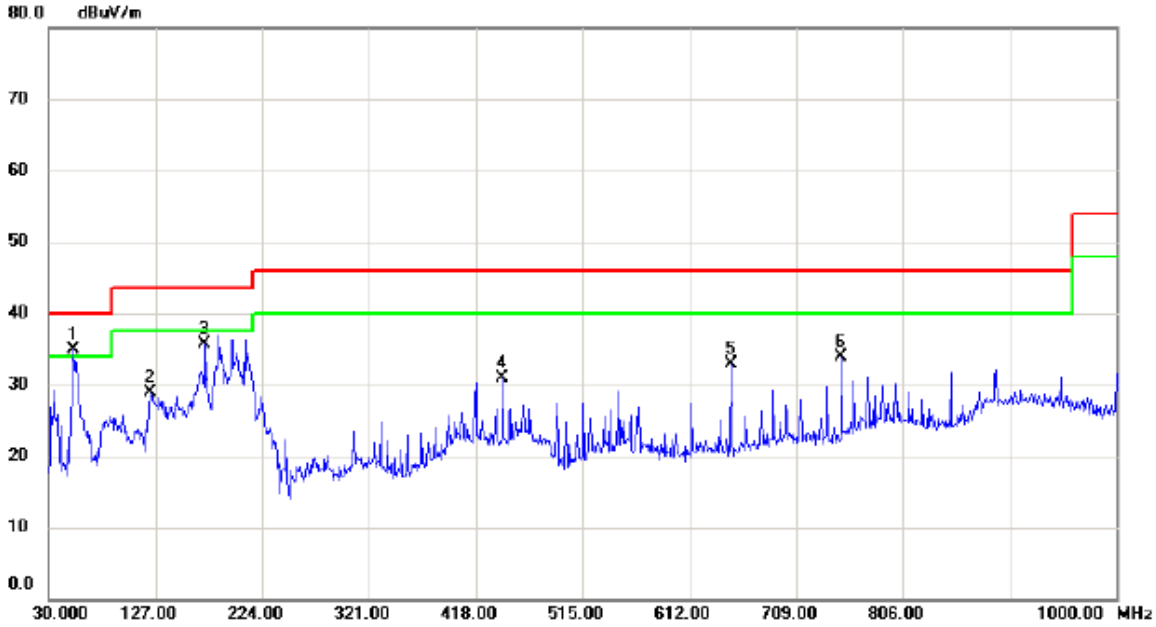
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		52.3100	36.32	-13.79	22.53	40.00	-17.47	peak	
2		172.1050	44.83	-12.43	32.40	43.50	-11.10	peak	
3	*	196.8400	46.84	-14.38	32.46	43.50	-11.04	peak	
4		356.4050	42.82	-11.18	31.64	46.00	-14.36	peak	
5		381.1400	41.19	-9.53	31.66	46.00	-14.34	peak	
6		750.2250	36.05	-2.91	33.14	46.00	-12.86	peak	

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

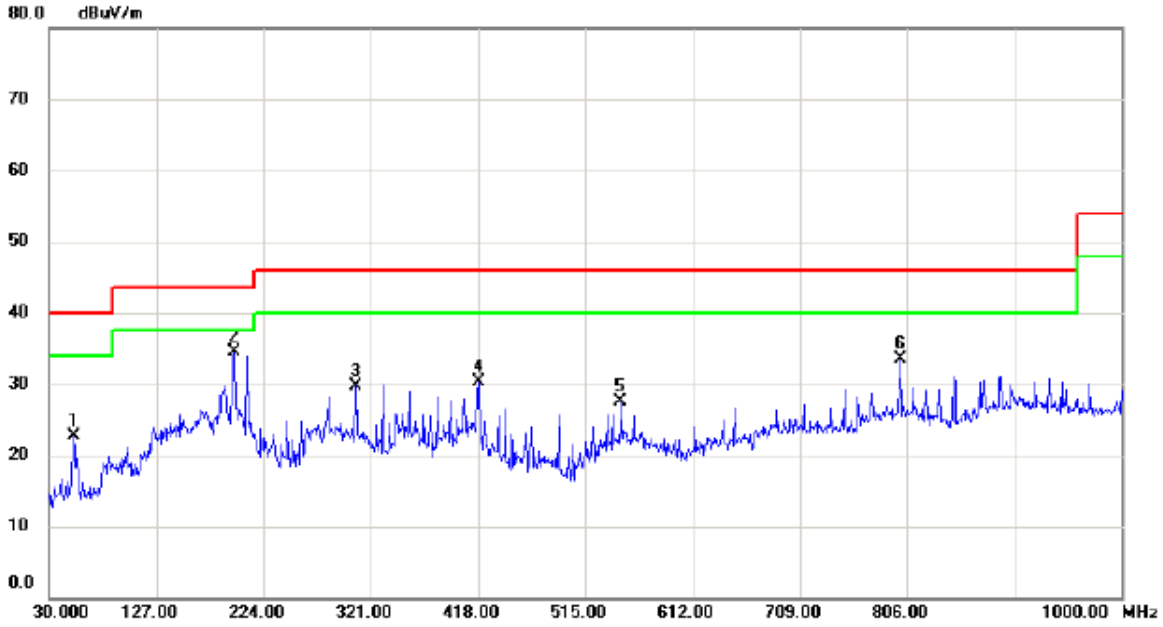
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	52.3100	48.70	-13.79	34.91	40.00	-5.09	peak	
2		122.1500	42.20	-13.21	28.99	43.50	-14.51	peak	
3		172.1050	48.05	-12.43	35.62	43.50	-7.88	peak	
4		442.2500	39.43	-8.53	30.90	46.00	-15.10	peak	
5		649.8300	38.04	-5.05	32.99	46.00	-13.01	peak	
6		750.2250	36.89	-2.91	33.98	46.00	-12.02	peak	

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

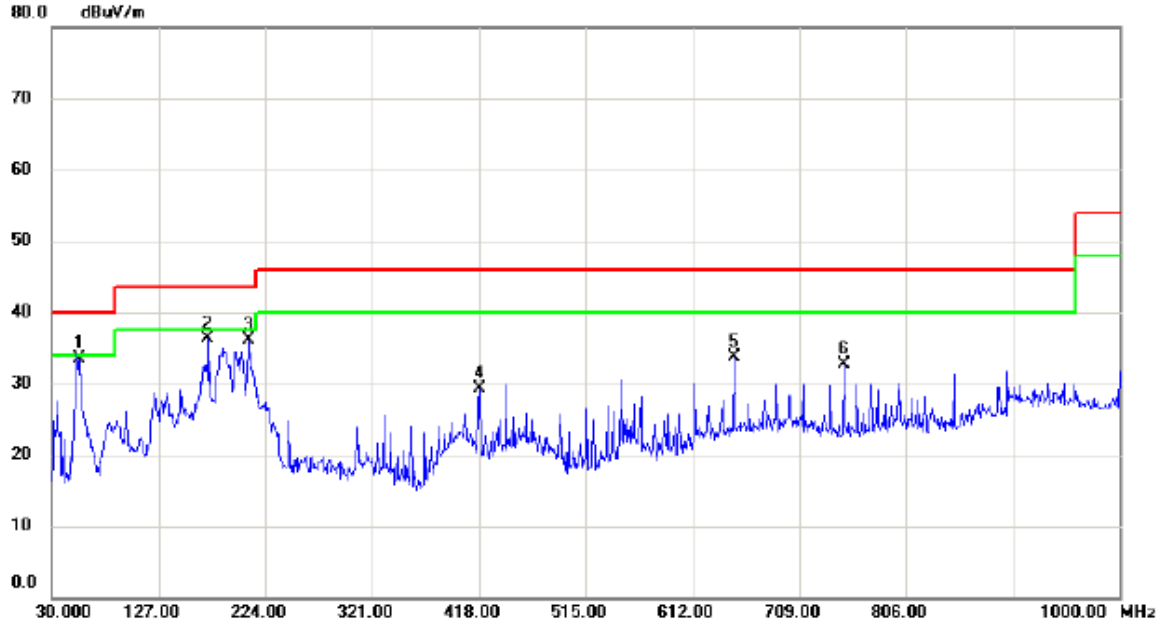
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		52.3100	36.53	-13.79	22.74	40.00	-17.26	peak	
2	*	196.8400	48.89	-14.38	34.51	43.50	-8.99	peak	
3		307.4200	40.32	-10.64	29.68	46.00	-16.32	peak	
4		418.0000	38.70	-8.37	30.33	46.00	-15.67	peak	
5		547.0100	33.14	-5.58	27.56	46.00	-18.44	peak	
6		800.1800	34.21	-0.75	33.46	46.00	-12.54	peak	

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

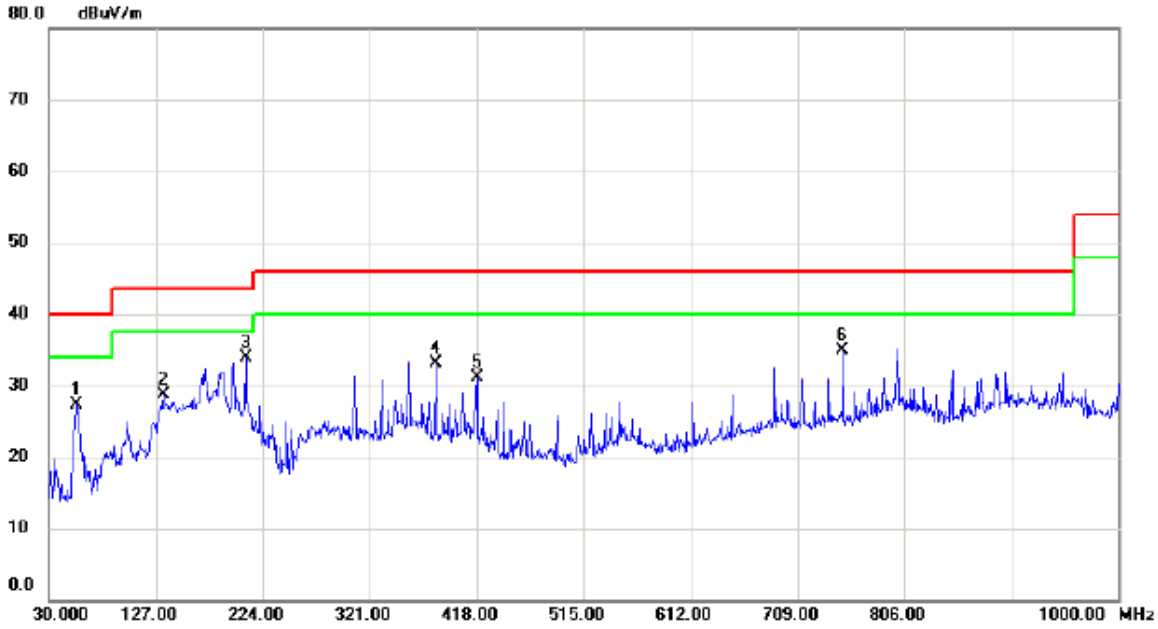
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	55.2200	46.92	-13.34	33.58	40.00	-6.42	peak	
2		172.1050	48.72	-12.43	36.29	43.50	-7.21	peak	
3		208.9650	50.77	-14.75	36.02	43.50	-7.48	peak	
4		418.0000	37.74	-8.37	29.37	46.00	-16.63	peak	
5		649.8300	38.77	-5.05	33.72	46.00	-12.28	peak	
6		750.2250	35.68	-2.91	32.77	46.00	-13.23	peak	

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

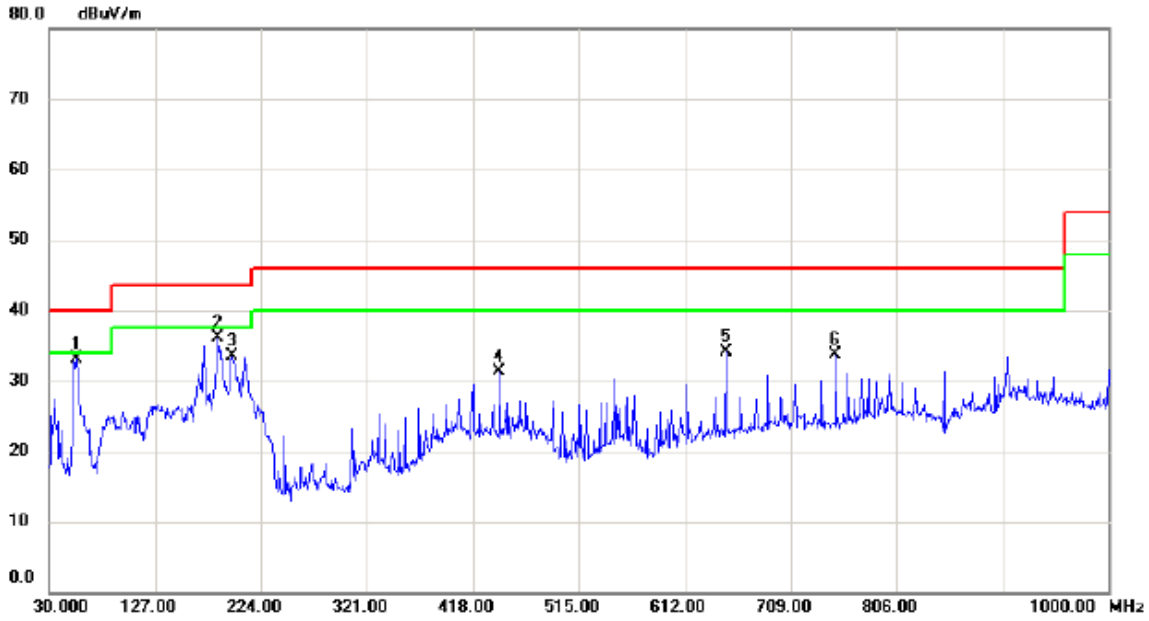
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		54.7350	40.74	-13.41	27.33	40.00	-12.67	peak	
2		134.2750	41.76	-12.96	28.80	43.50	-14.70	peak	
3	*	208.9650	48.58	-14.75	33.83	43.50	-9.67	peak	
4		381.1400	42.62	-9.53	33.09	46.00	-12.91	peak	
5		418.0000	39.52	-8.37	31.15	46.00	-14.85	peak	
6		750.2250	37.72	-2.91	34.81	46.00	-11.19	peak	

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

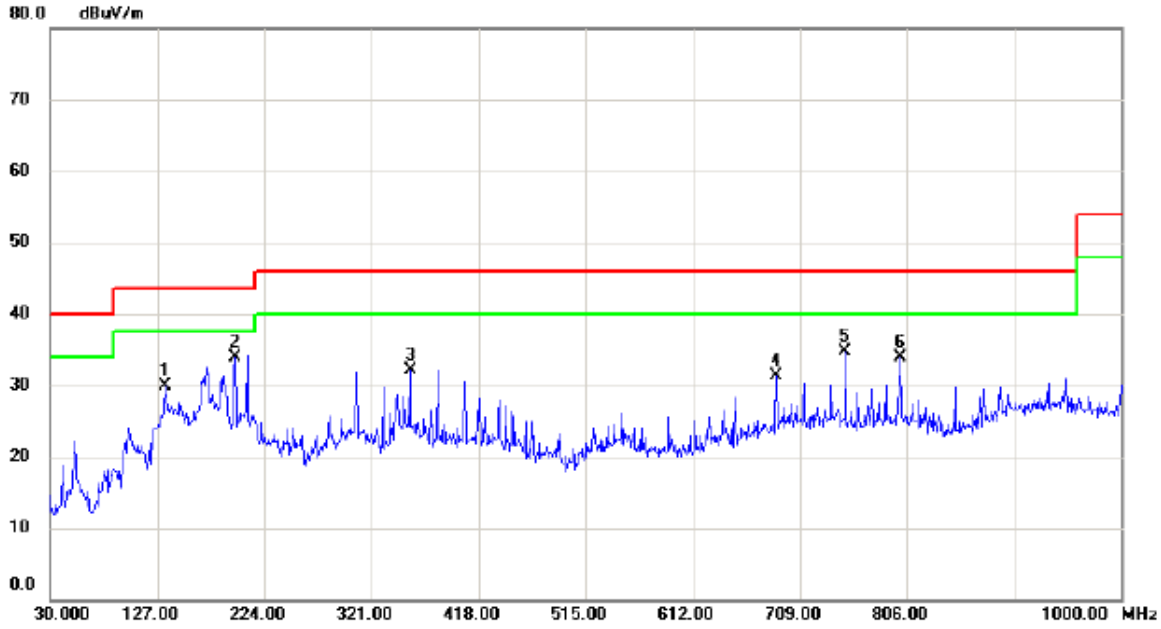
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	55.2200	46.54	-13.34	33.20	40.00	-6.80	peak	
2		184.2300	49.42	-13.39	36.03	43.50	-7.47	peak	
3		196.8400	47.90	-14.38	33.52	43.50	-9.98	peak	
4		442.2500	39.79	-8.53	31.26	46.00	-14.74	peak	
5		649.8300	39.24	-5.05	34.19	46.00	-11.81	peak	
6		750.2250	36.61	-2.91	33.70	46.00	-12.30	peak	

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

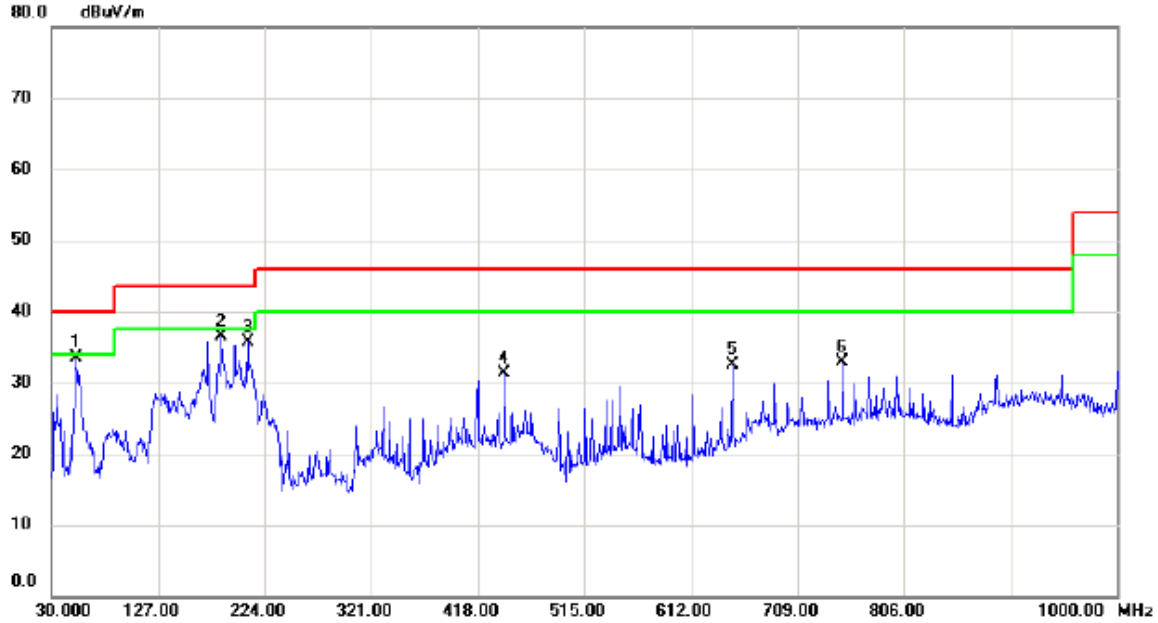
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		134.2750	42.79	-12.96	29.83	43.50	-13.67	peak	
2	*	196.8400	48.34	-14.38	33.96	43.50	-9.54	peak	
3		356.4050	43.32	-11.18	32.14	46.00	-13.86	peak	
4		688.1450	34.87	-3.49	31.38	46.00	-14.62	peak	
5		750.2250	37.55	-2.91	34.64	46.00	-11.36	peak	
6		800.1800	34.73	-0.75	33.98	46.00	-12.02	peak	

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

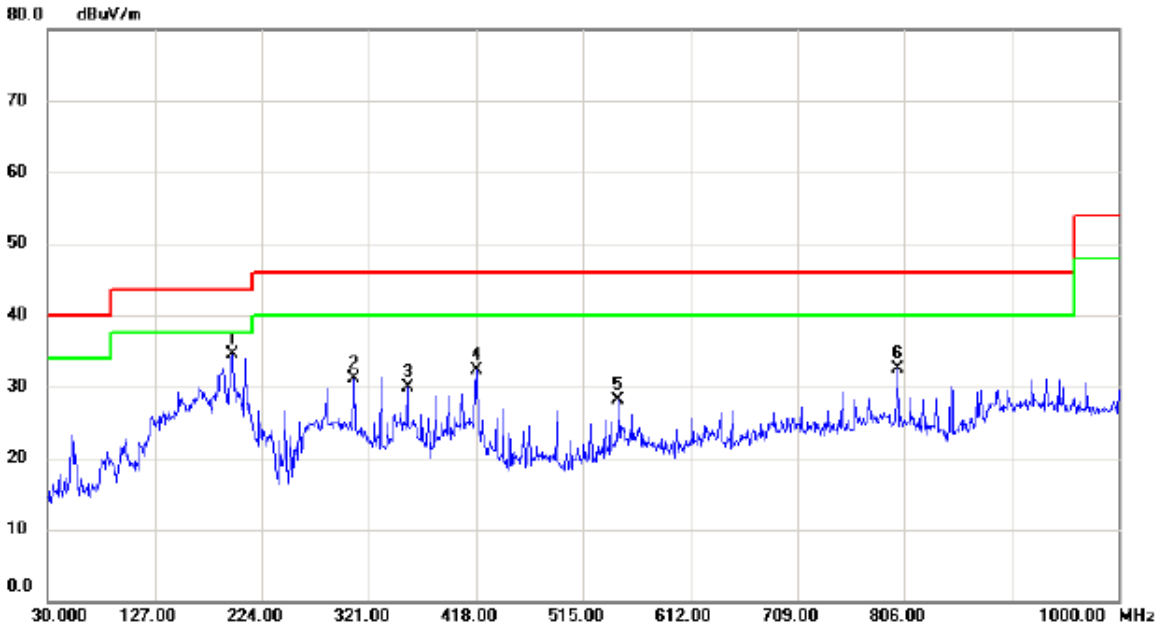
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	52.3100	47.20	-13.79	33.41	40.00	-6.59	peak	
2		184.2300	49.82	-13.39	36.43	43.50	-7.07	peak	
3		208.9650	50.49	-14.75	35.74	43.50	-7.76	peak	
4		442.2500	39.93	-8.53	31.40	46.00	-14.60	peak	
5		649.8300	37.54	-5.05	32.49	46.00	-13.51	peak	
6		750.2250	35.89	-2.91	32.98	46.00	-13.02	peak	

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

Horizontal



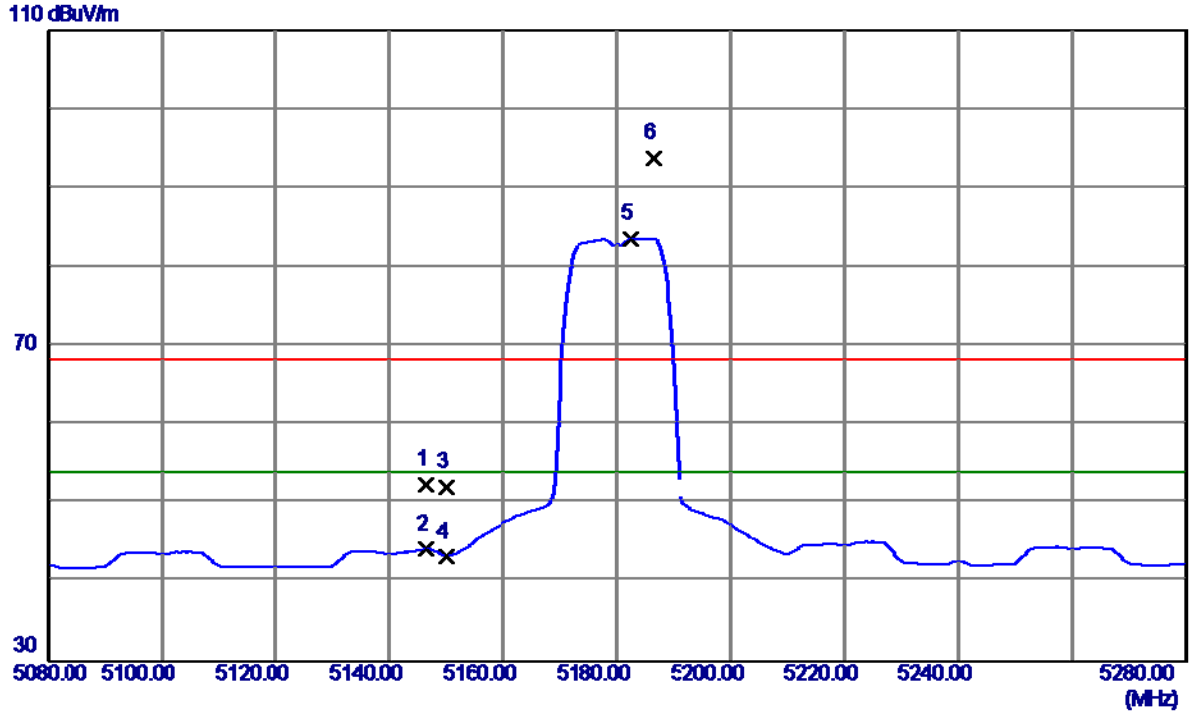
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	196.8400	48.89	-14.38	34.51	43.50	-8.99	peak	
2		307.4200	41.82	-10.64	31.18	46.00	-14.82	peak	
3		356.4050	41.07	-11.18	29.89	46.00	-16.11	peak	
4		418.0000	40.70	-8.37	32.33	46.00	-13.67	peak	
5		547.0100	33.64	-5.58	28.06	46.00	-17.94	peak	
6		800.1800	33.21	-0.75	32.46	46.00	-13.54	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

For ANT 1

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

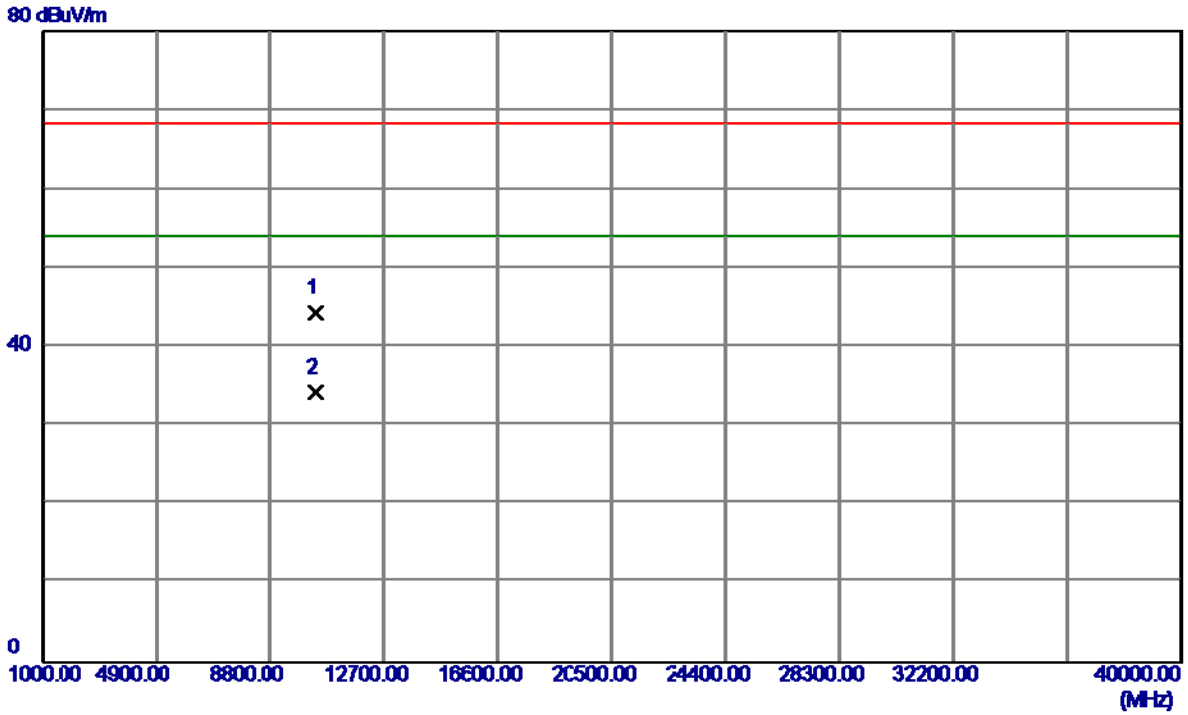
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5146.4000	12.77	39.57	52.34	68.30	-15.96	Peak	
2	5146.4000	4.63	39.57	44.20	54.00	-9.80	AVG	
3	5150.0000	12.57	39.58	52.15	68.30	-16.15	Peak	
4	5150.0000	3.77	39.58	43.35	54.00	-10.65	AVG	
5 *	5182.5000	43.99	39.68	83.67	54.00	29.67	AVG	No Limit
6	5186.4000	54.17	39.69	93.86	68.30	25.56	Peak	No Limit

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

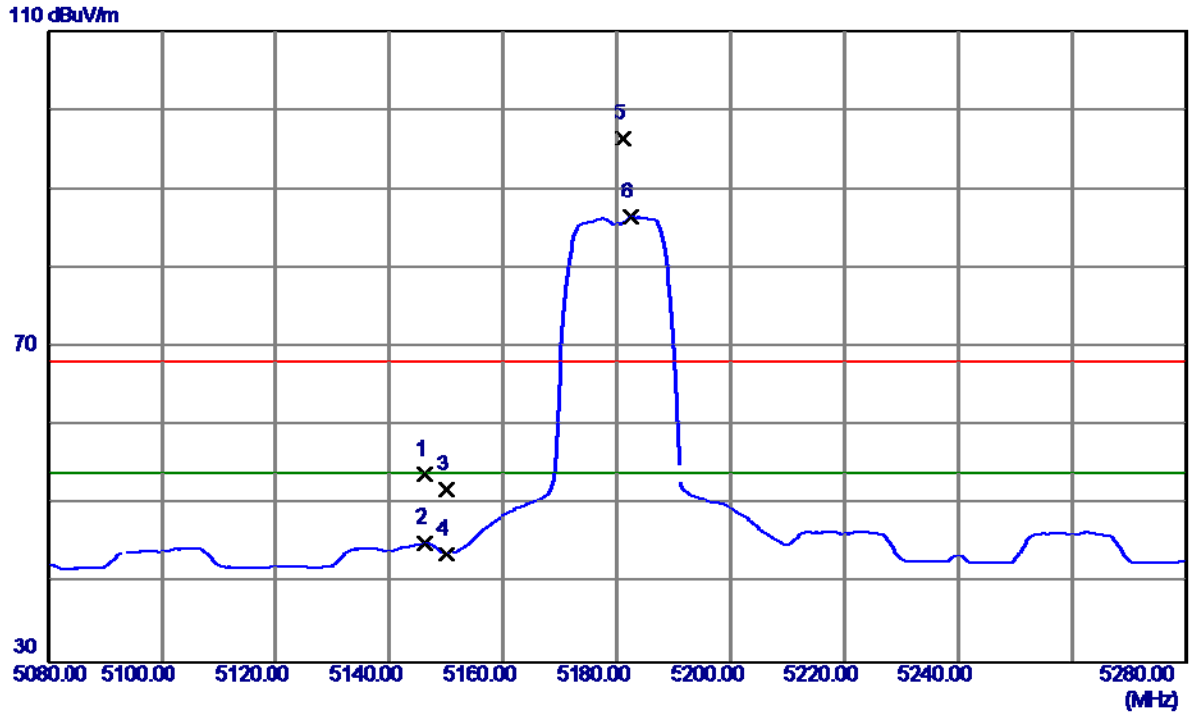
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10359.5500	30.57	13.72	44.29	68.30	-24.01	Peak	
2 *	10359.9250	20.52	13.72	34.24	54.00	-19.76	AVG	

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

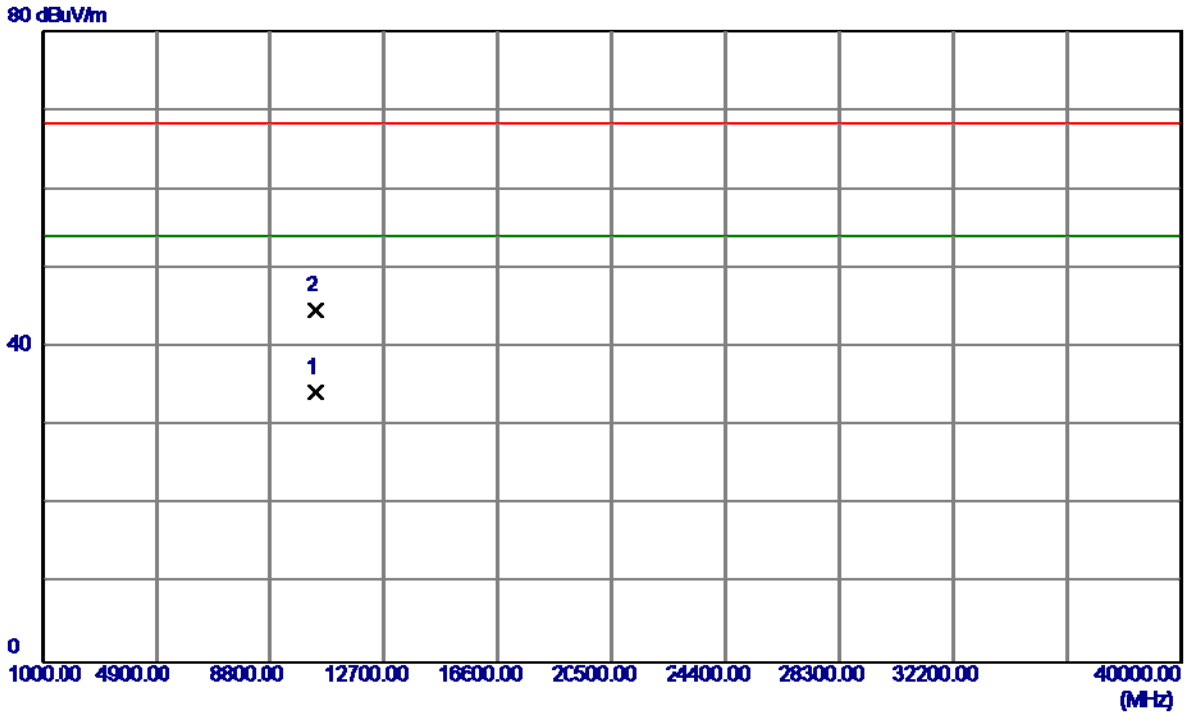
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5146.3000	14.29	39.57	53.86	68.30	-14.44	Peak	
2	5146.3000	5.60	39.57	45.17	54.00	-8.83	AVG	
3	5150.0000	12.35	39.58	51.93	68.30	-16.37	Peak	
4	5150.0000	4.25	39.58	43.83	54.00	-10.17	AVG	
5	5181.1000	56.71	39.68	96.39	68.30	28.09	Peak	No Limit
6 *	5182.5000	46.79	39.68	86.47	54.00	32.47	AVG	No Limit

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

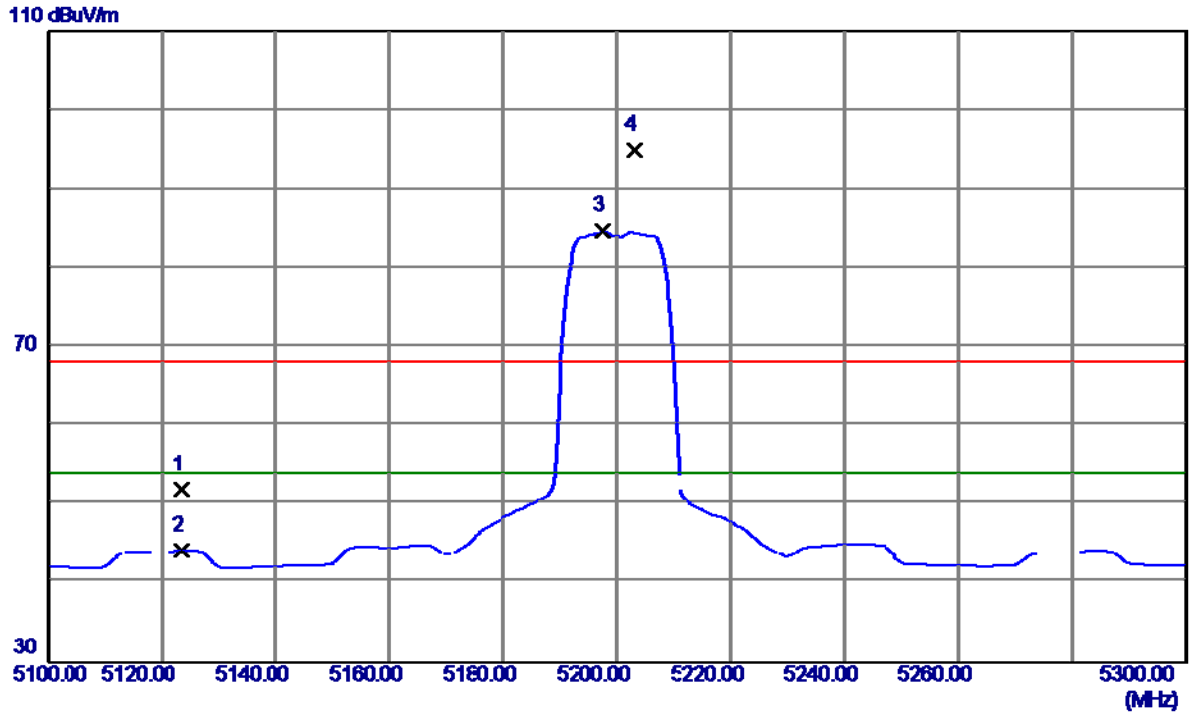
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10359.7500	20.59	13.72	34.31	54.00	-19.69	AVG	
2	10360.1500	30.94	13.72	44.66	68.30	-23.64	Peak	

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

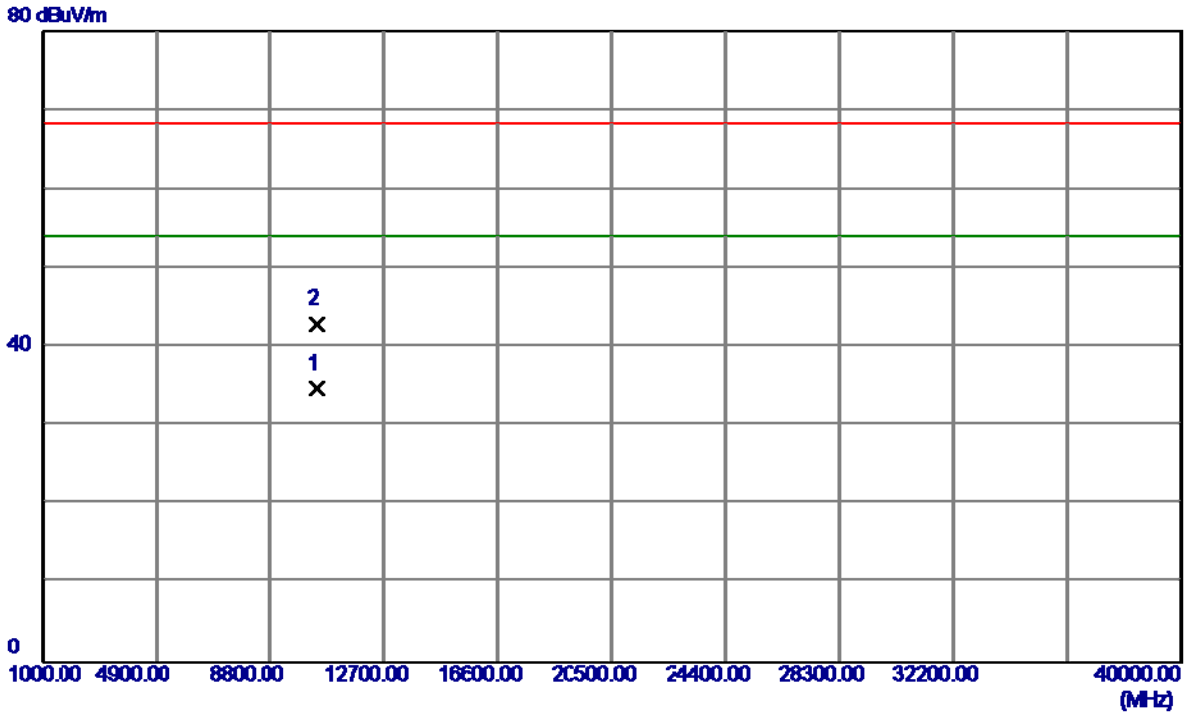
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5123.6000	12.46	39.50	51.96	68.30	-16.34	Peak	
2	5123.6000	4.75	39.50	44.25	54.00	-9.75	AVG	
3 *	5197.5000	44.93	39.73	84.66	54.00	30.66	AVG	No Limit
4	5203.2000	55.26	39.74	95.00	68.30	26.70	Peak	No Limit

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

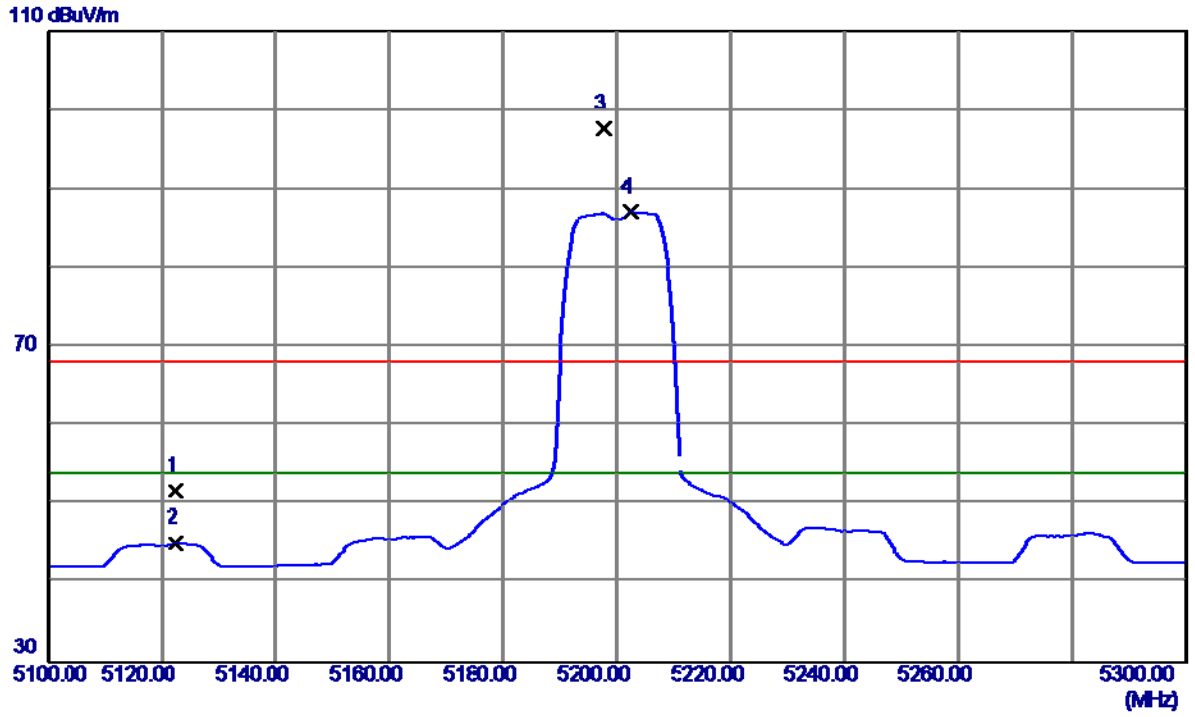
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400.2250	20.85	13.80	34.65	54.00	-19.35	AVG	
2	10400.3250	29.06	13.80	42.86	68.30	-25.44	Peak	

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

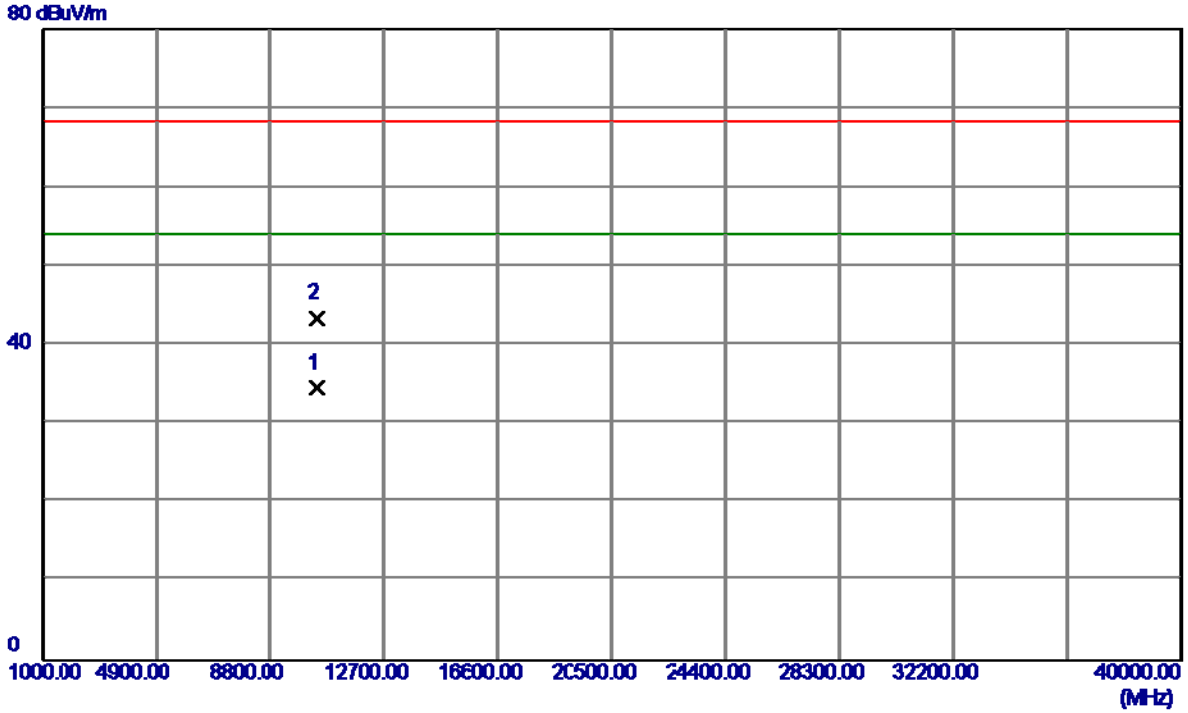
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5122.5000	12.24	39.50	51.74	68.30	-16.56	Peak	
2	5122.5000	5.72	39.50	45.22	54.00	-8.78	AVG	
3	5197.7000	58.01	39.73	97.74	68.30	29.44	Peak	No Limit
4 *	5202.5000	47.32	39.74	87.06	54.00	33.06	AVG	No Limit

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

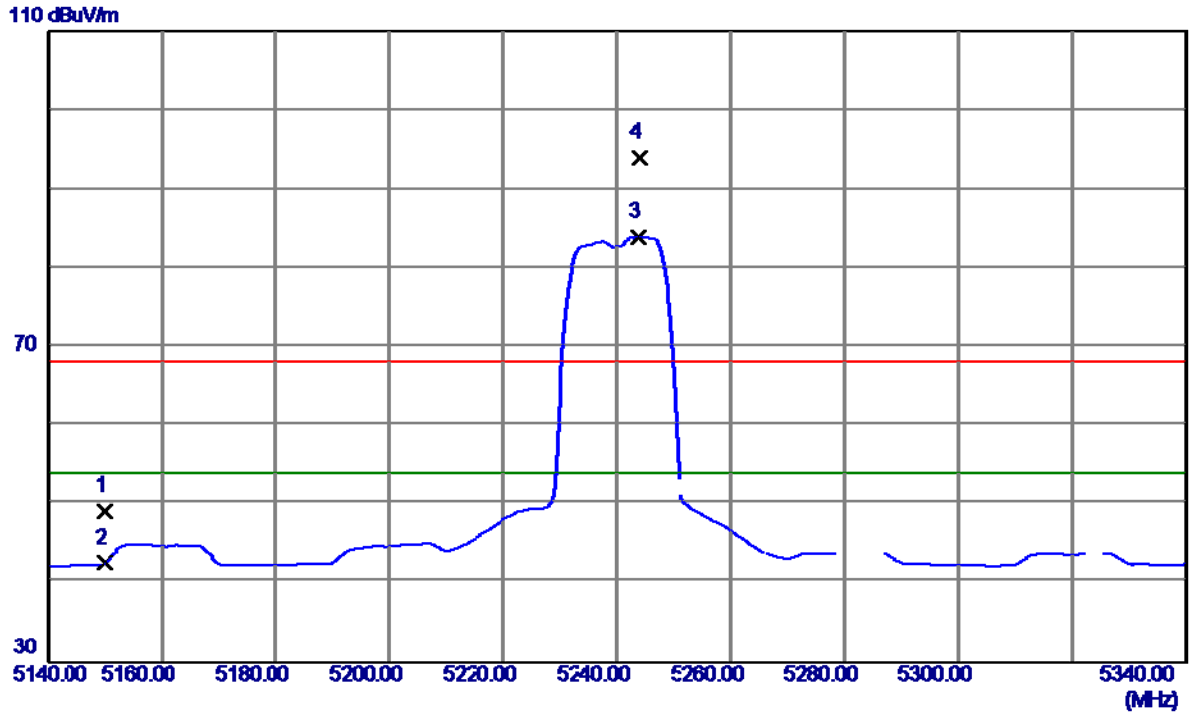
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399.8500	20.83	13.80	34.63	54.00	-19.37	AVG	
2	10400.3750	29.51	13.80	43.31	68.30	-24.99	Peak	

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

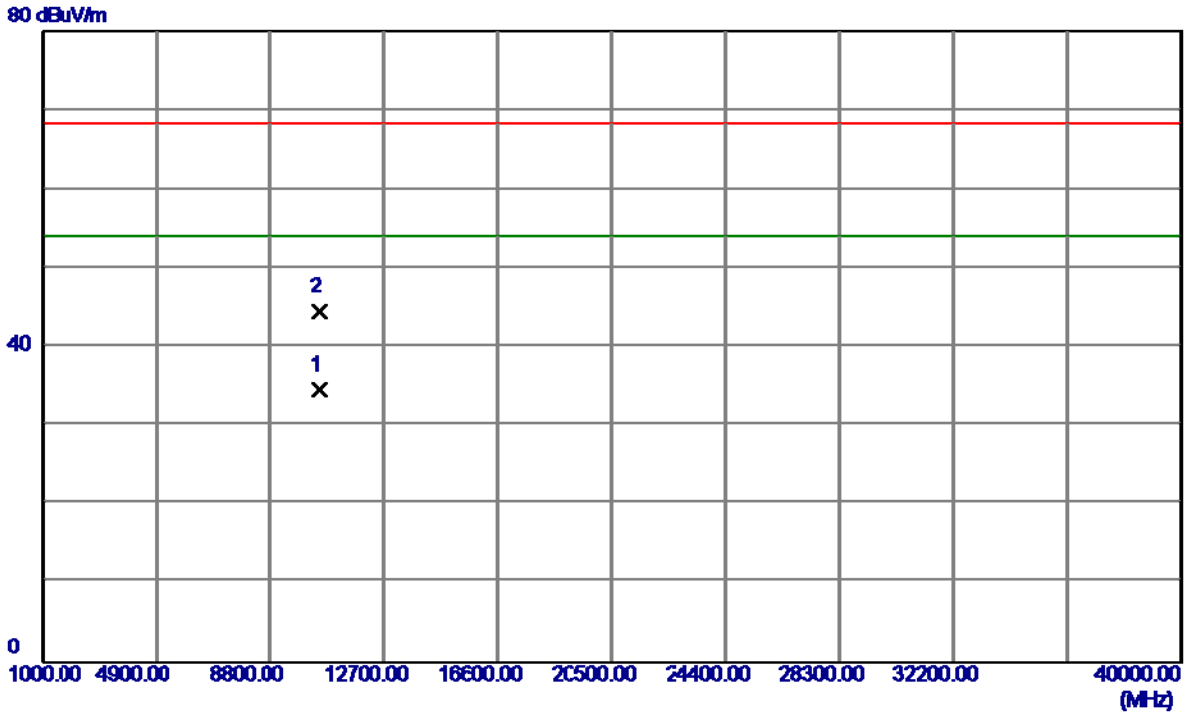
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	9.58	39.58	49.16	68.30	-19.14	Peak	
2	5150.0000	3.01	39.58	42.59	54.00	-11.41	AVG	
3 *	5243.8000	44.08	39.87	83.95	54.00	29.95	AVG	No Limit
4	5243.9000	54.13	39.87	94.00	68.30	25.70	Peak	No Limit

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

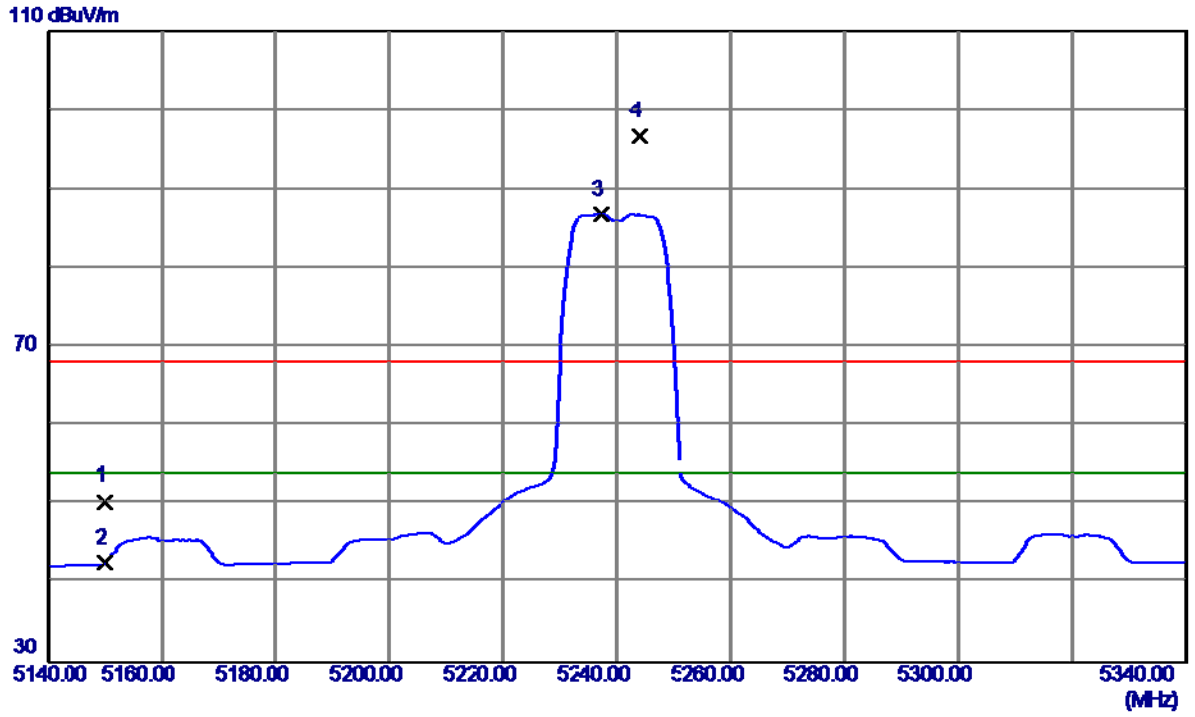
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10479.6250	20.57	13.95	34.52	54.00	-19.48	AVG	
2	10480.2500	30.51	13.95	44.46	68.30	-23.84	Peak	

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

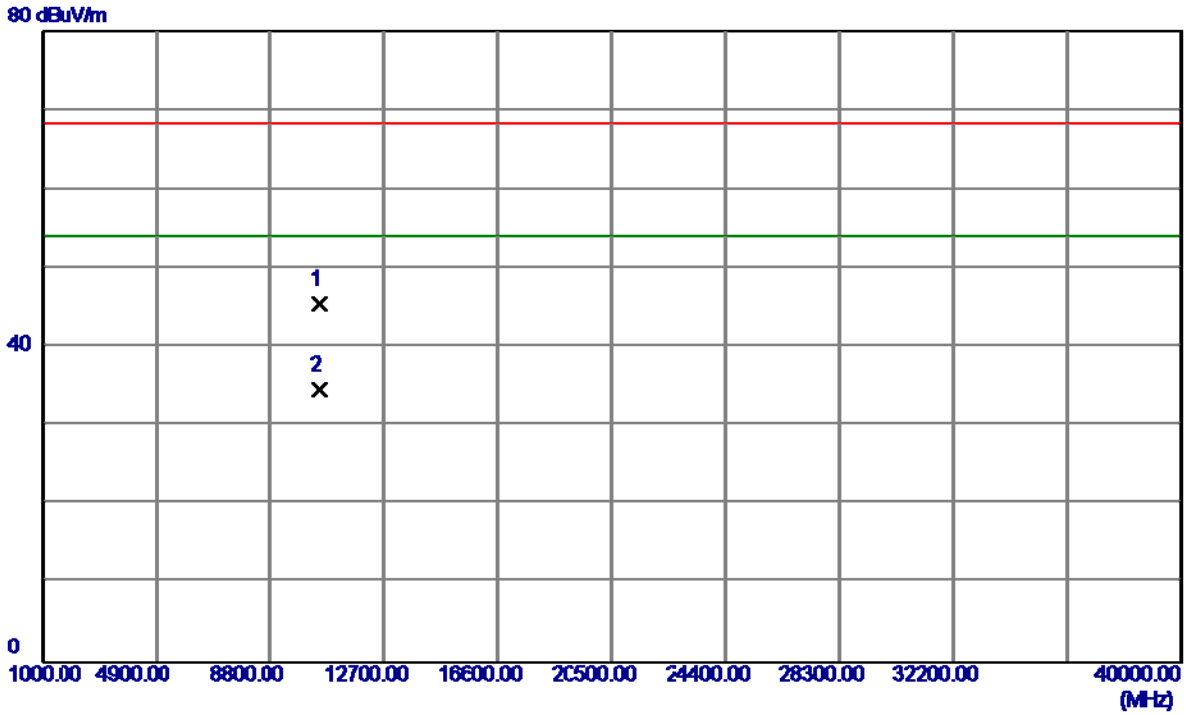
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	10.82	39.58	50.40	68.30	-17.90	Peak	
2	5150.0000	3.04	39.58	42.62	54.00	-11.38	AVG	
3 *	5237.4000	46.99	39.85	86.84	54.00	32.84	AVG	No Limit
4	5244.1000	56.90	39.87	96.77	68.30	28.47	Peak	No Limit

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

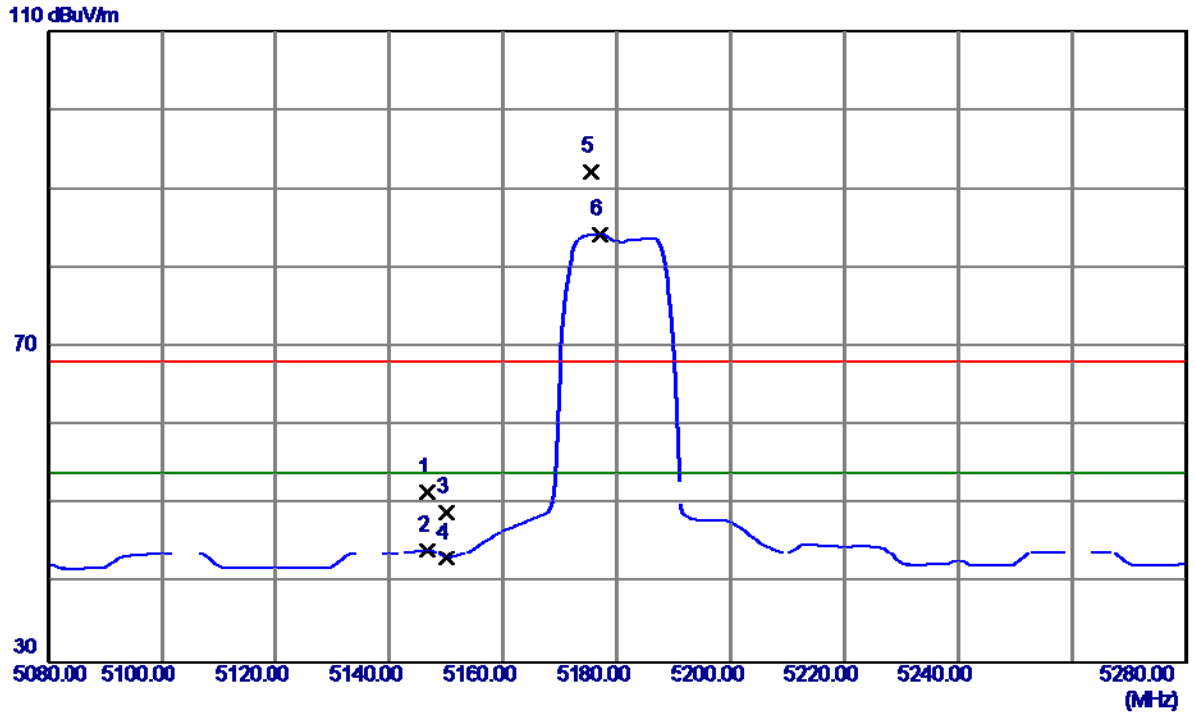
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10479.9750	31.48	13.95	45.43	68.30	-22.87	Peak	
2 *	10480.0750	20.61	13.95	34.56	54.00	-19.44	AVG	

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

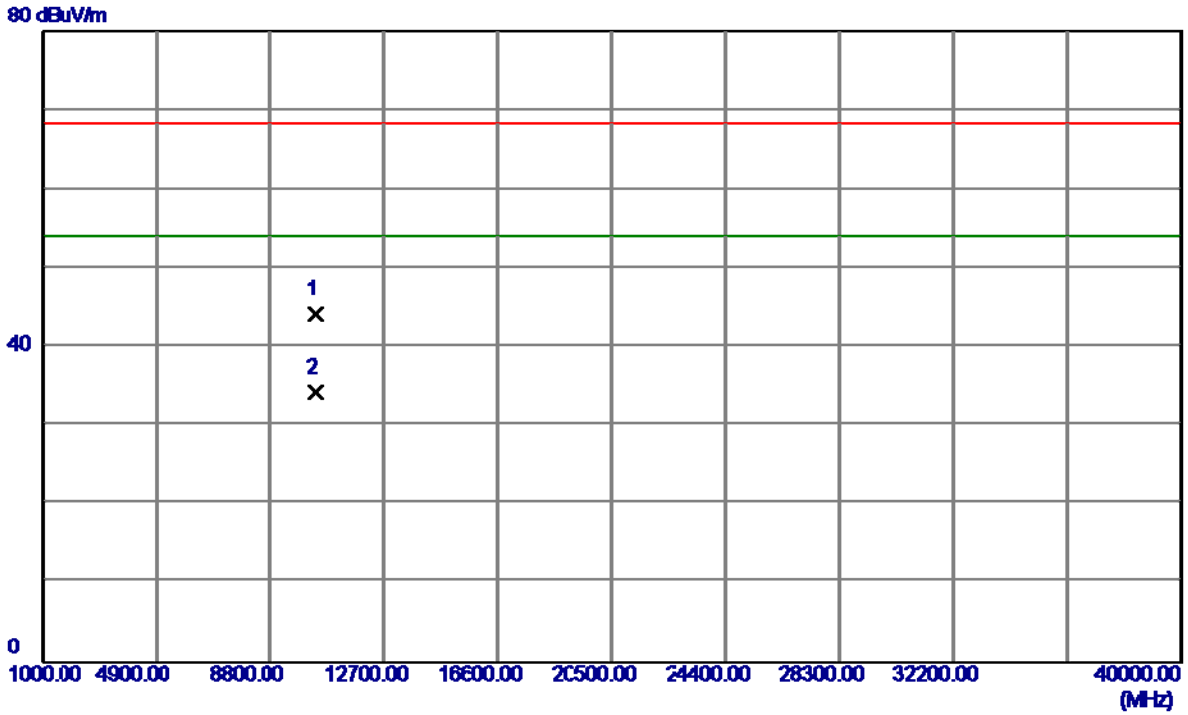
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5146.6000	11.96	39.57	51.53	68.30	-16.77	Peak	
2	5146.6000	4.73	39.57	44.30	54.00	-9.70	AVG	
3	5150.0000	9.43	39.58	49.01	68.30	-19.29	Peak	
4	5150.0000	3.76	39.58	43.34	54.00	-10.66	AVG	
5	5175.5000	52.58	39.66	92.24	68.30	23.94	Peak	No Limit
6 *	5177.2000	44.59	39.67	84.26	54.00	30.26	AVG	No Limit

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

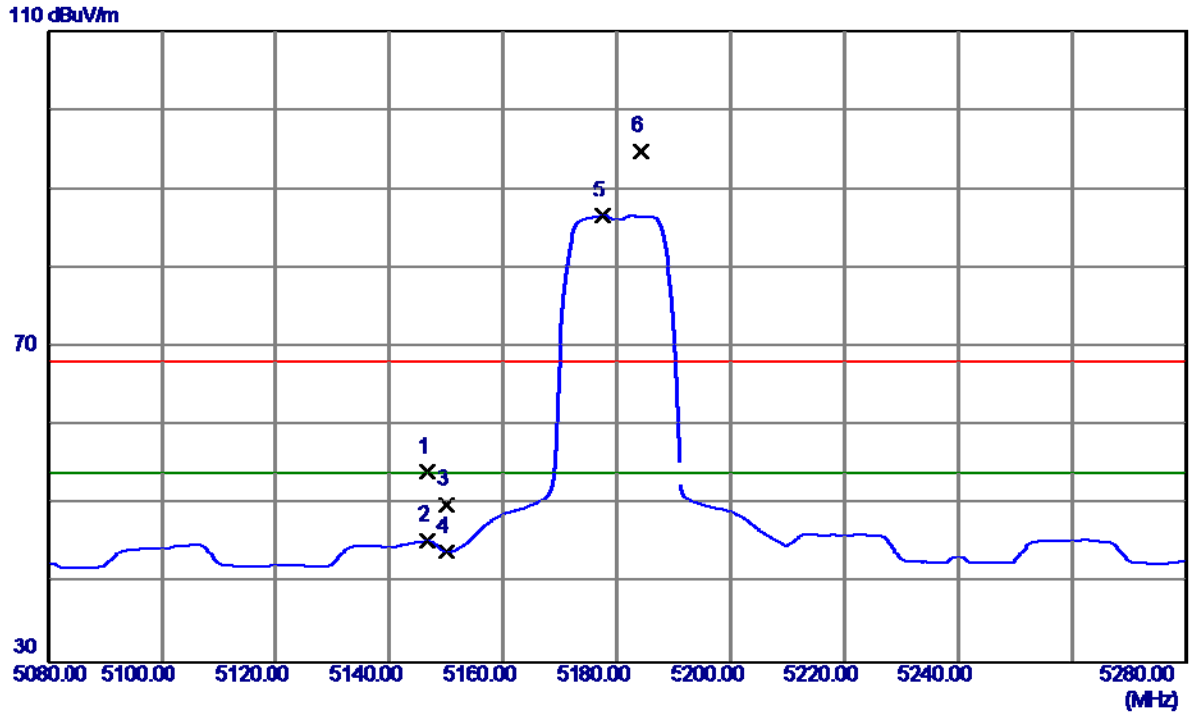
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10359.6500	30.51	13.72	44.23	68.30	-24.07	Peak	
2 *	10359.6500	20.52	13.72	34.24	54.00	-19.76	AVG	

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

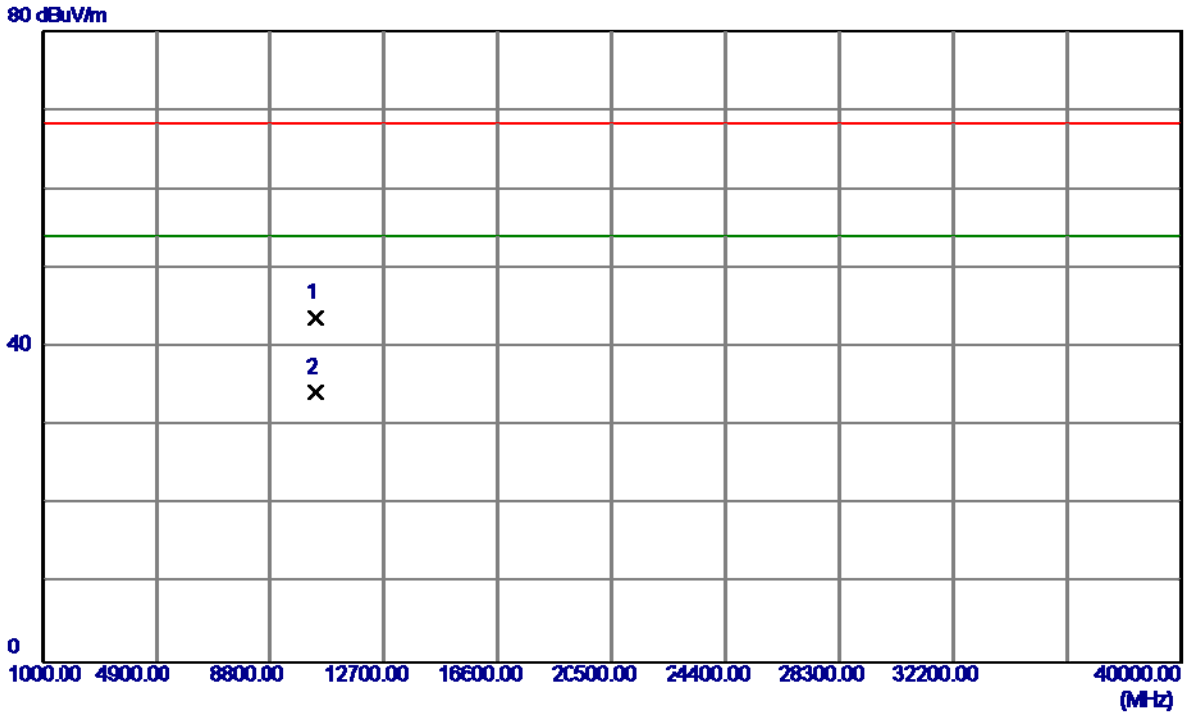
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5146.6000	14.55	39.57	54.12	68.30	-14.18	Peak	
2	5146.6000	5.88	39.57	45.45	54.00	-8.55	AVG	
3	5150.0000	10.49	39.58	50.07	68.30	-18.23	Peak	
4	5150.0000	4.51	39.58	44.09	54.00	-9.91	AVG	
5 *	5177.6000	46.96	39.67	86.63	54.00	32.63	AVG	No Limit
6	5184.3000	55.10	39.69	94.79	68.30	26.49	Peak	No Limit

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

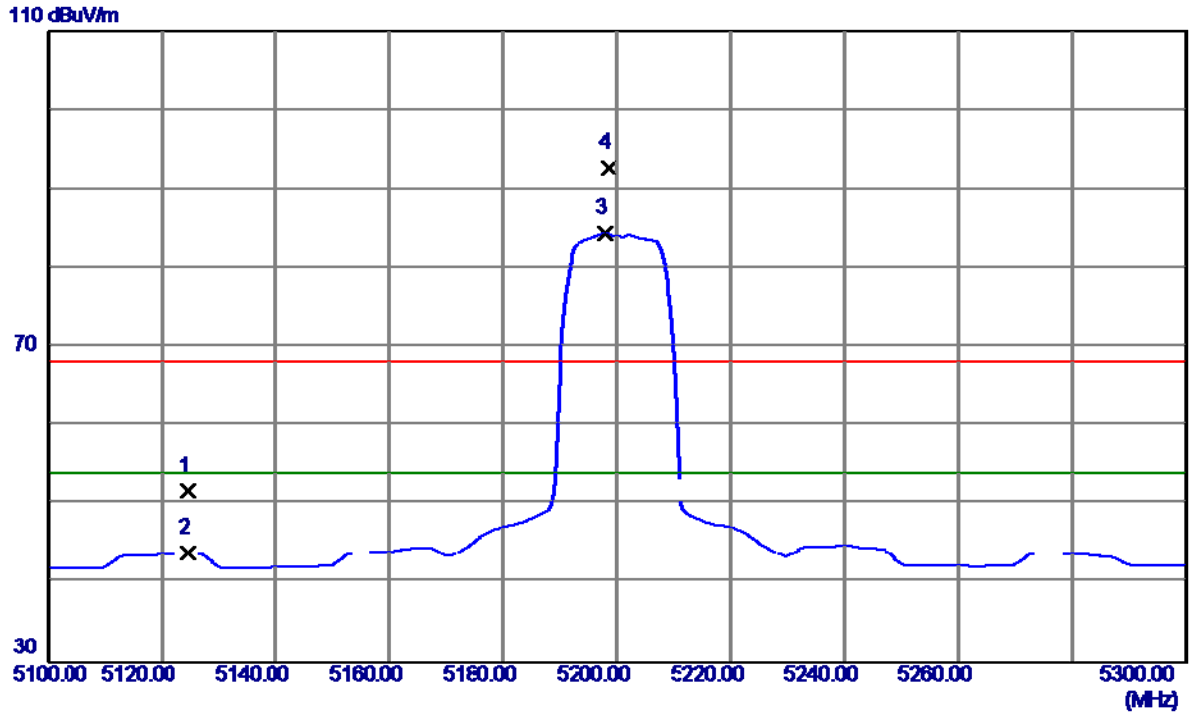
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10359.3000	29.97	13.72	43.69	68.30	-24.61	Peak	
2 *	10359.6500	20.56	13.72	34.28	54.00	-19.72	AVG	

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

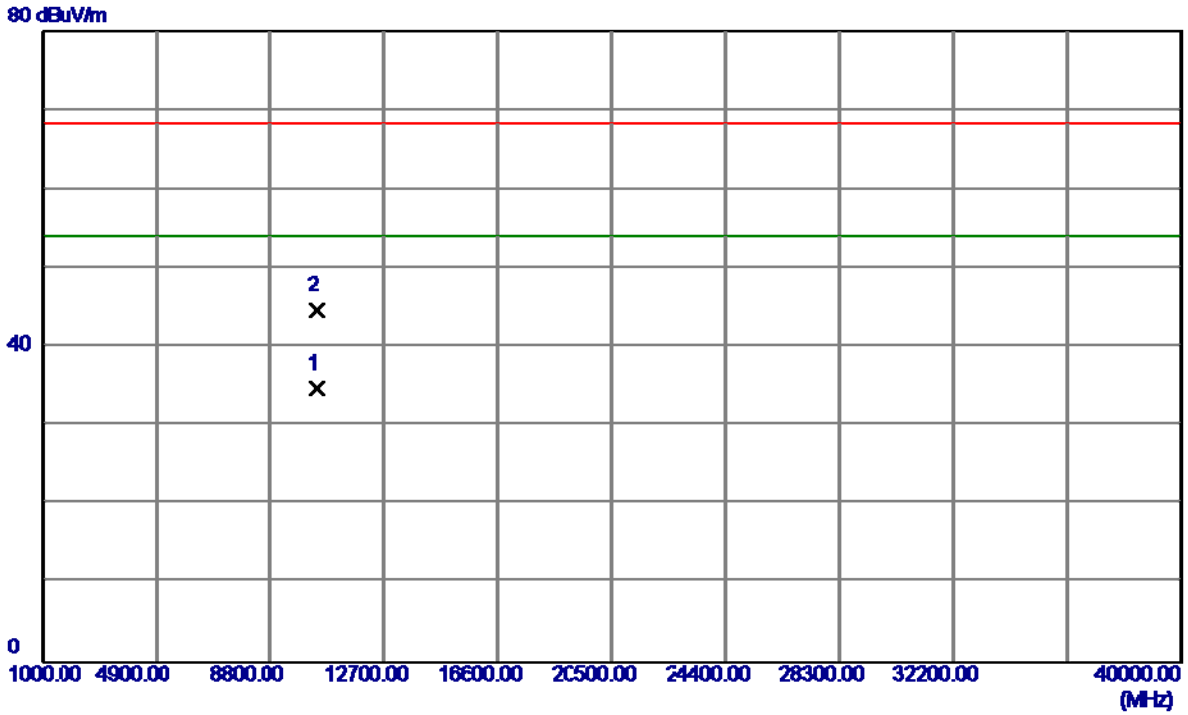
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5124.7000	12.29	39.51	51.80	68.30	-16.50	Peak	
2	5124.7000	4.42	39.51	43.93	54.00	-10.07	AVG	
3 *	5198.0000	44.72	39.73	84.45	54.00	30.45	AVG	No Limit
4	5198.6000	52.96	39.73	92.69	68.30	24.39	Peak	No Limit

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

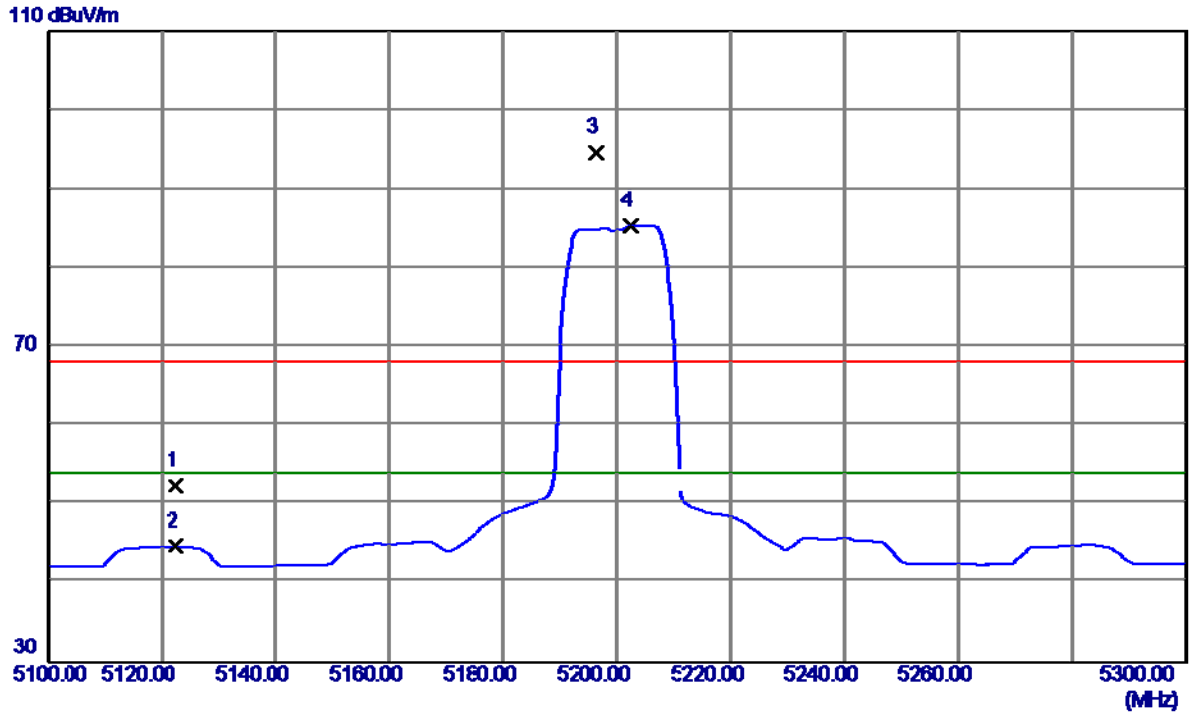
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399.4250	20.85	13.80	34.65	54.00	-19.35	AVG	
2	10400.3500	30.91	13.80	44.71	68.30	-23.59	Peak	

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

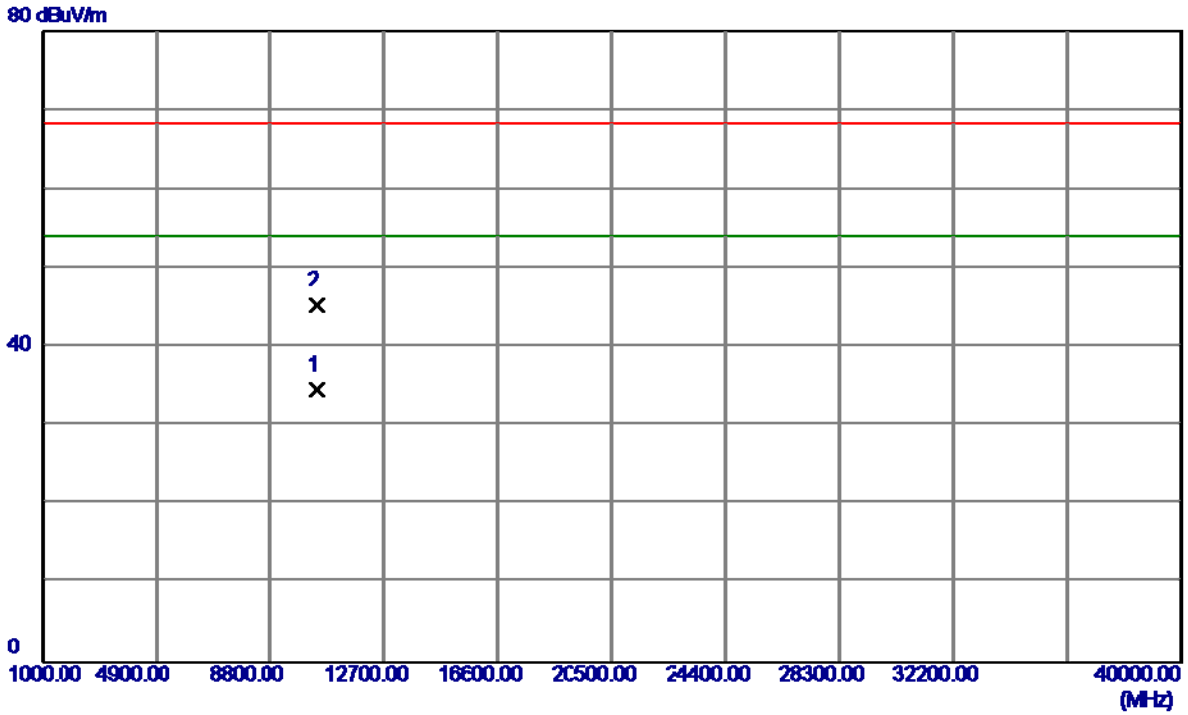
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5122.4000	12.90	39.50	52.40	68.30	-15.90	Peak	
2	5122.4000	5.30	39.50	44.80	54.00	-9.20	AVG	
3	5196.5000	54.87	39.72	94.59	68.30	26.29	Peak	No Limit
4 *	5202.5000	45.67	39.74	85.41	54.00	31.41	AVG	No Limit

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

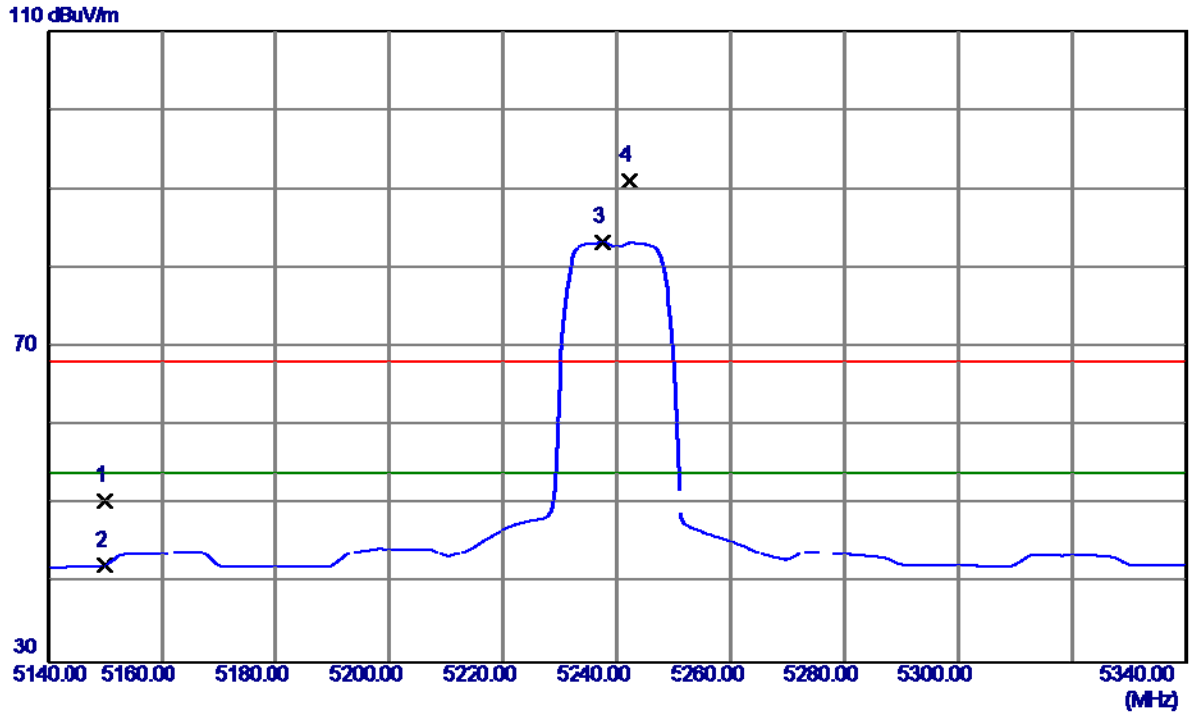
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400.2500	20.77	13.80	34.57	54.00	-19.43	AVG	
2	10400.6500	31.41	13.80	45.21	68.30	-23.09	Peak	

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

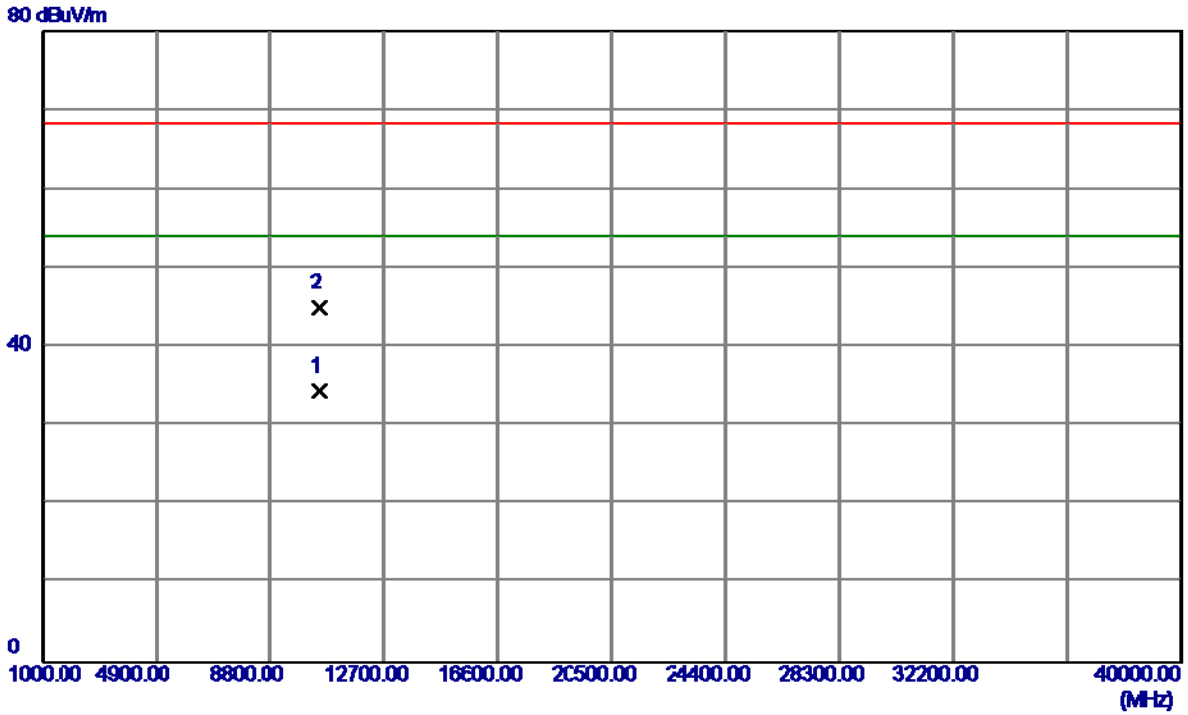
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	10.85	39.58	50.43	68.30	-17.87	Peak	
2	5150.0000	2.71	39.58	42.29	54.00	-11.71	AVG	
3 *	5237.5000	43.41	39.85	83.26	54.00	29.26	AVG	No Limit
4	5242.3000	51.30	39.86	91.16	68.30	22.86	Peak	No Limit

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

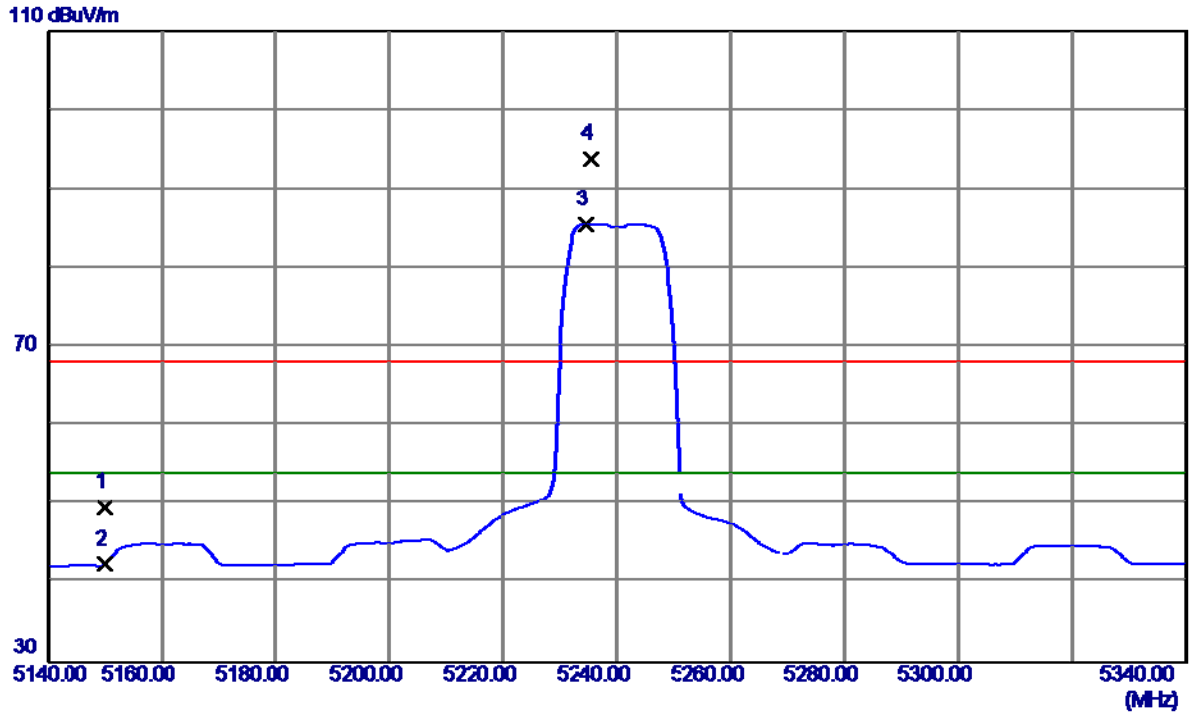
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480.1000	20.47	13.95	34.42	54.00	-19.58	AVG	
2	10480.3000	30.98	13.95	44.93	68.30	-23.37	Peak	

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

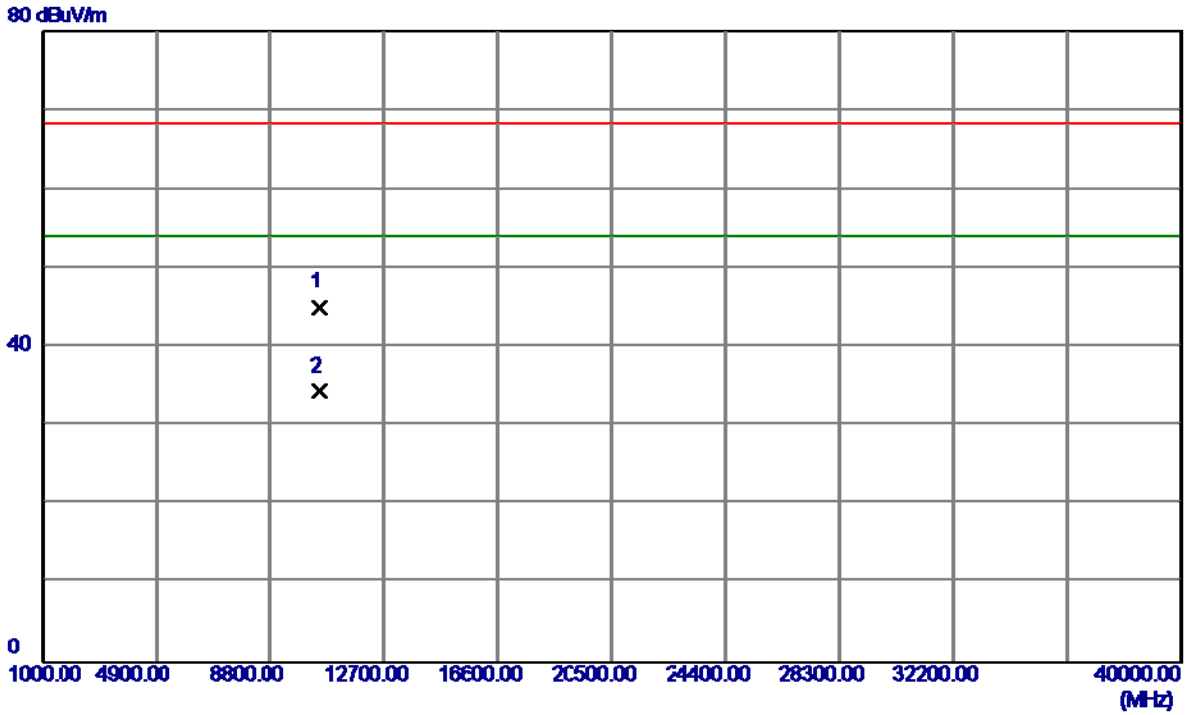
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	10.15	39.58	49.73	68.30	-18.57	Peak	
2	5150.0000	2.95	39.58	42.53	54.00	-11.47	AVG	
3 *	5234.7000	45.75	39.84	85.59	54.00	31.59	AVG	No Limit
4	5235.6000	54.01	39.84	93.85	68.30	25.55	Peak	No Limit

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

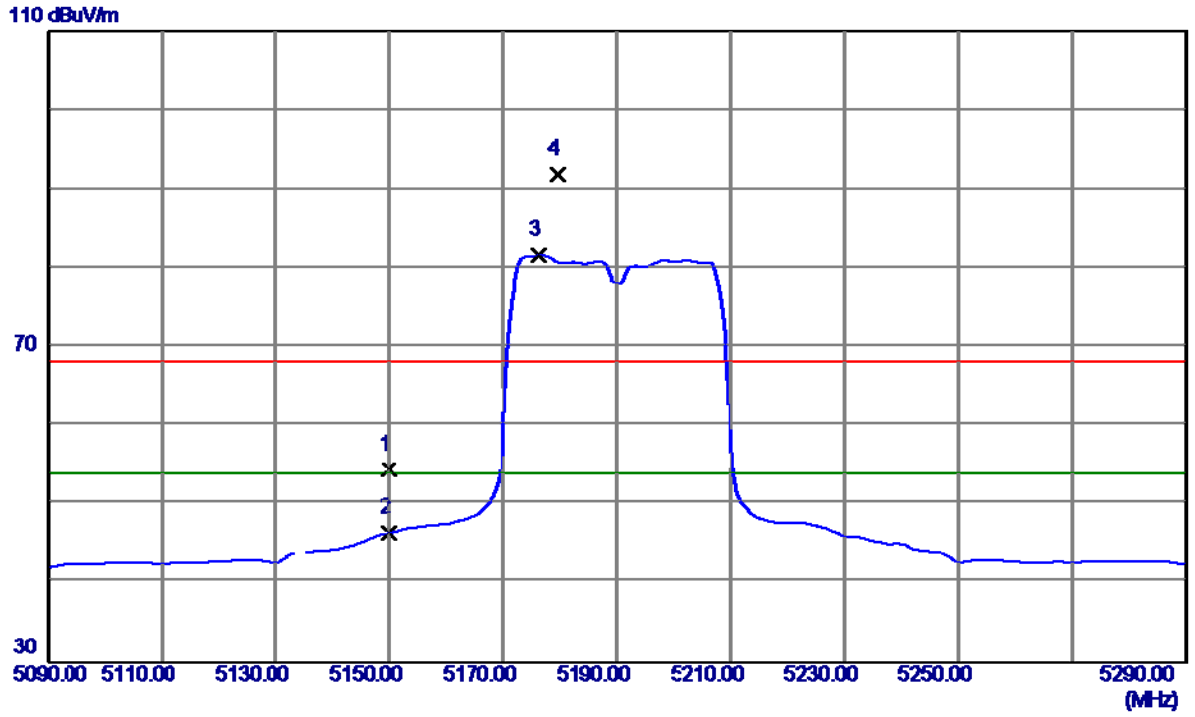
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10480.2250	31.09	13.95	45.04	68.30	-23.26	Peak	
2 *	10480.3750	20.50	13.95	34.45	54.00	-19.55	AVG	

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

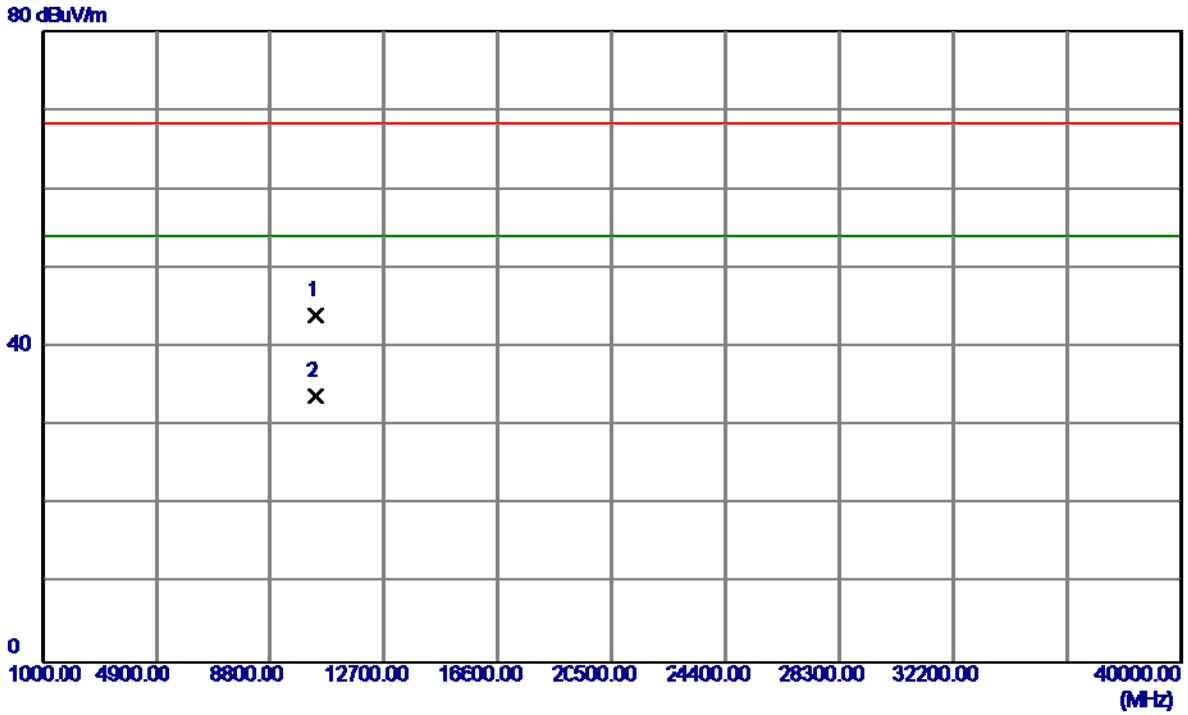
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	14.88	39.58	54.46	68.30	-13.84	Peak	
2	5150.0000	6.91	39.58	46.49	54.00	-7.51	AVG	
3 *	5176.3000	41.97	39.66	81.63	54.00	27.63	AVG	No Limit
4	5179.6000	52.31	39.67	91.98	68.30	23.68	Peak	No Limit

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

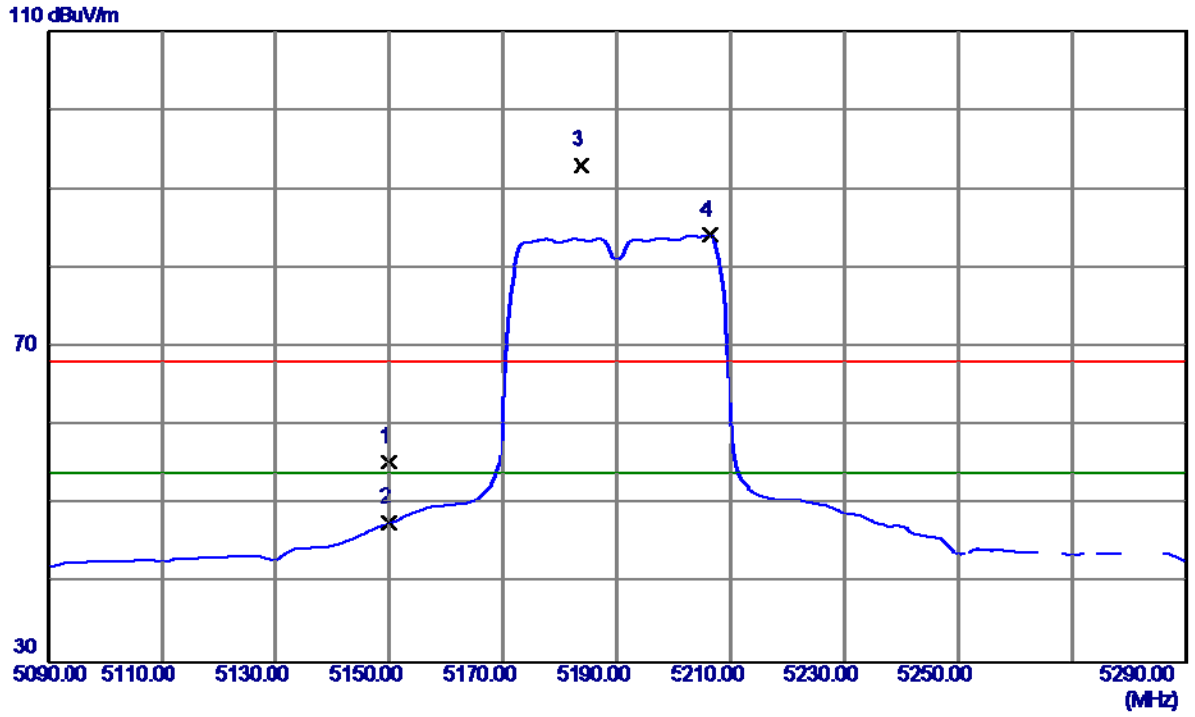
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10381.2000	30.24	13.76	44.00	68.30	-24.30	Peak	
2 *	10381.3000	19.96	13.76	33.72	54.00	-20.28	AVG	

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

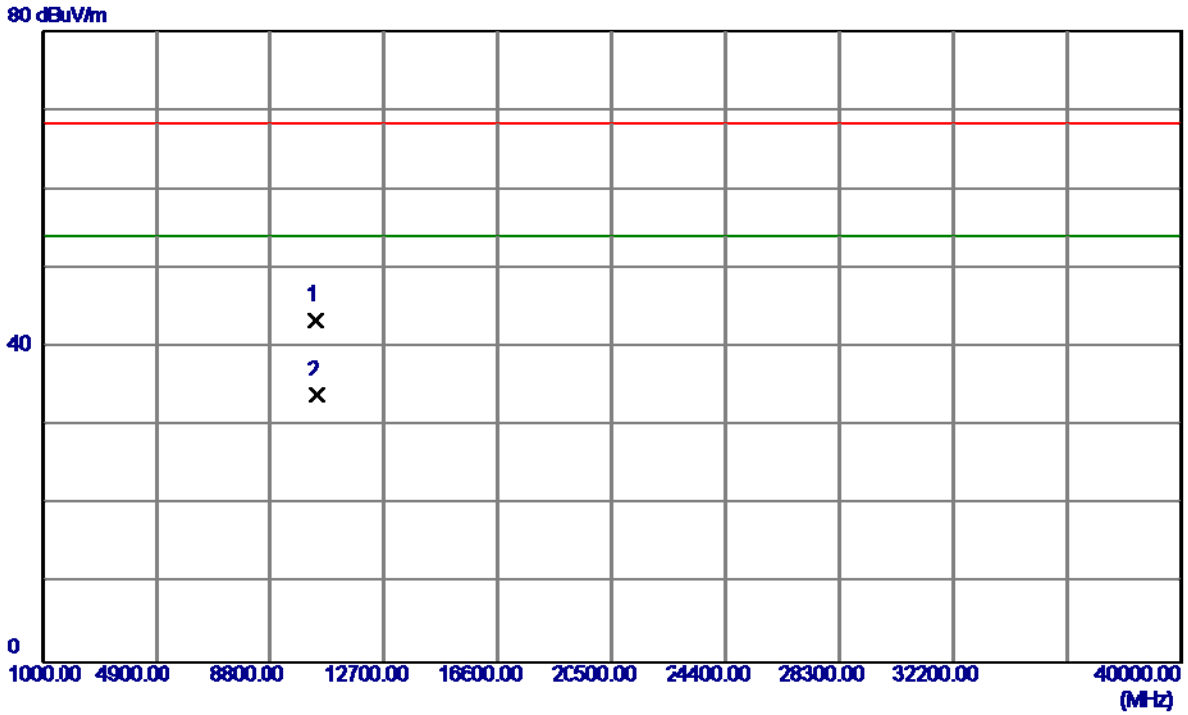
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	15.89	39.58	55.47	68.30	-12.83	Peak	
2	5150.0000	8.11	39.58	47.69	54.00	-6.31	AVG	
3	5183.8000	53.42	39.69	93.11	68.30	24.81	Peak	No Limit
4 *	5206.4000	44.41	39.75	84.16	54.00	30.16	AVG	No Limit

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

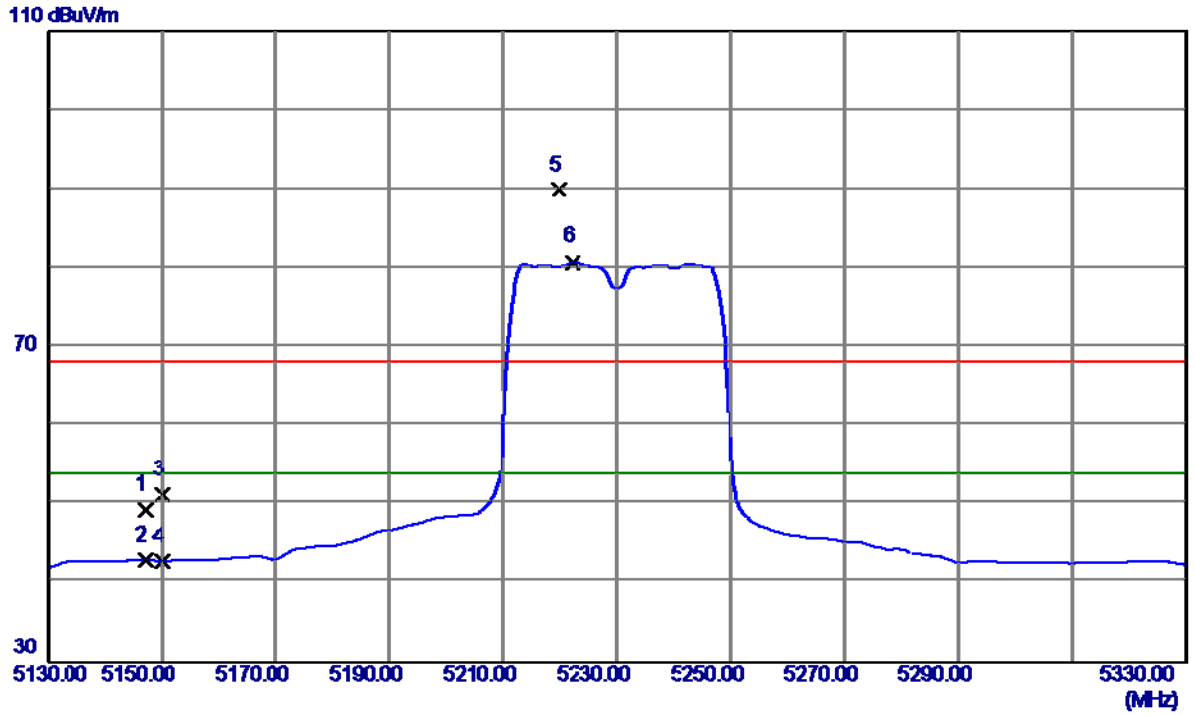
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10380.8000	29.66	13.76	43.42	68.30	-24.88	Peak	
2 *	10381.9000	20.12	13.76	33.88	54.00	-20.12	AVG	

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

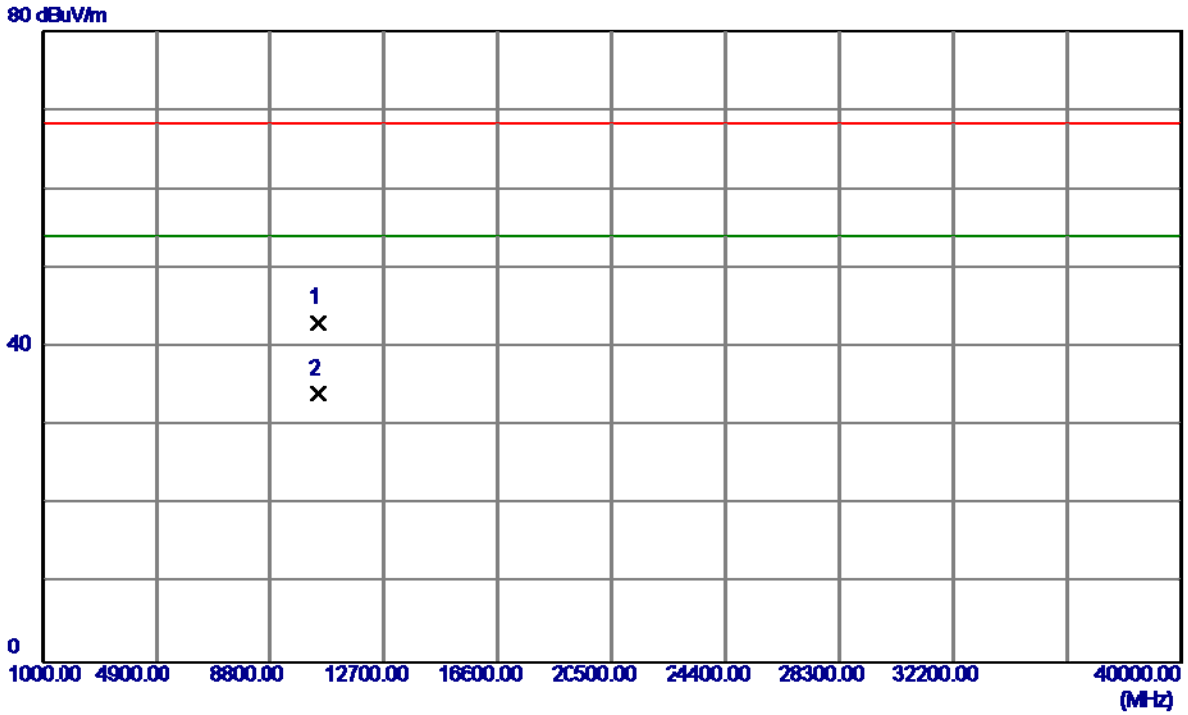
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5147.0000	9.81	39.57	49.38	68.30	-18.92	Peak	
2	5147.0000	3.41	39.57	42.98	54.00	-11.02	AVG	
3	5150.0000	11.70	39.58	51.28	68.30	-17.02	Peak	
4	5150.0000	3.16	39.58	42.74	54.00	-11.26	AVG	
5	5219.7000	50.13	39.79	89.92	68.30	21.62	Peak	No Limit
6 *	5222.3000	41.00	39.80	80.80	54.00	26.80	AVG	No Limit

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

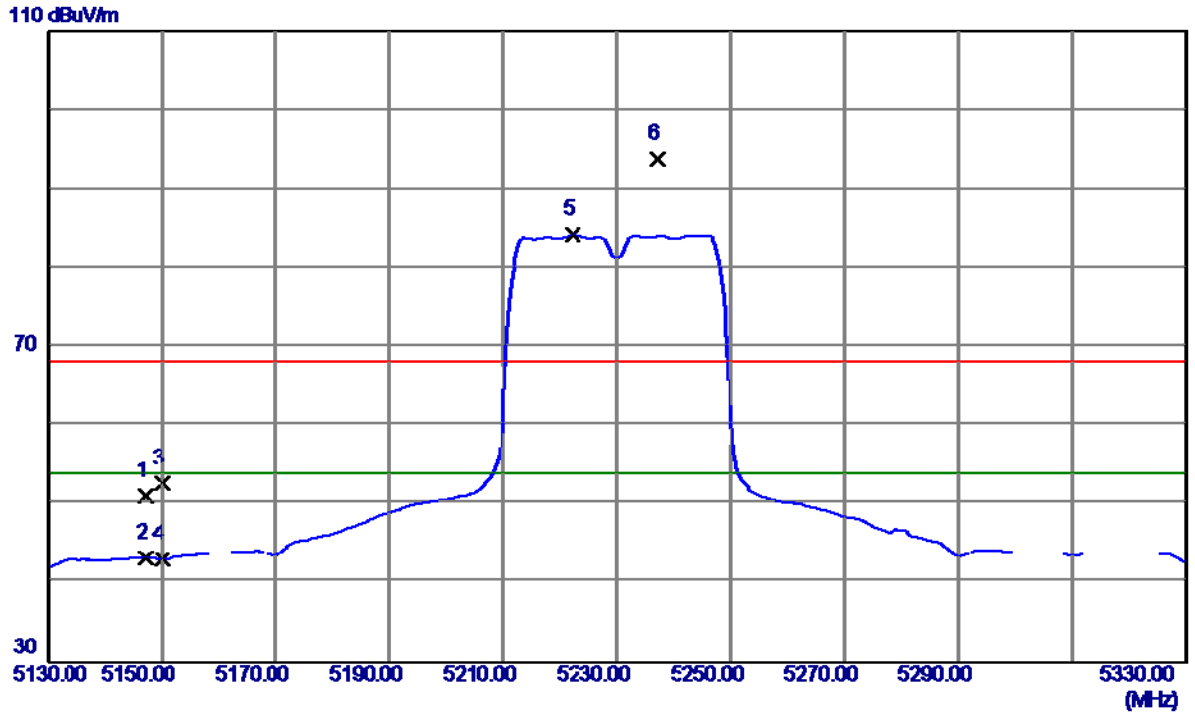
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	10460.2000	29.09	13.91	43.00	68.30	-25.30	Peak	
2 *	10460.9000	20.16	13.91	34.07	54.00	-19.93	AVG	

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

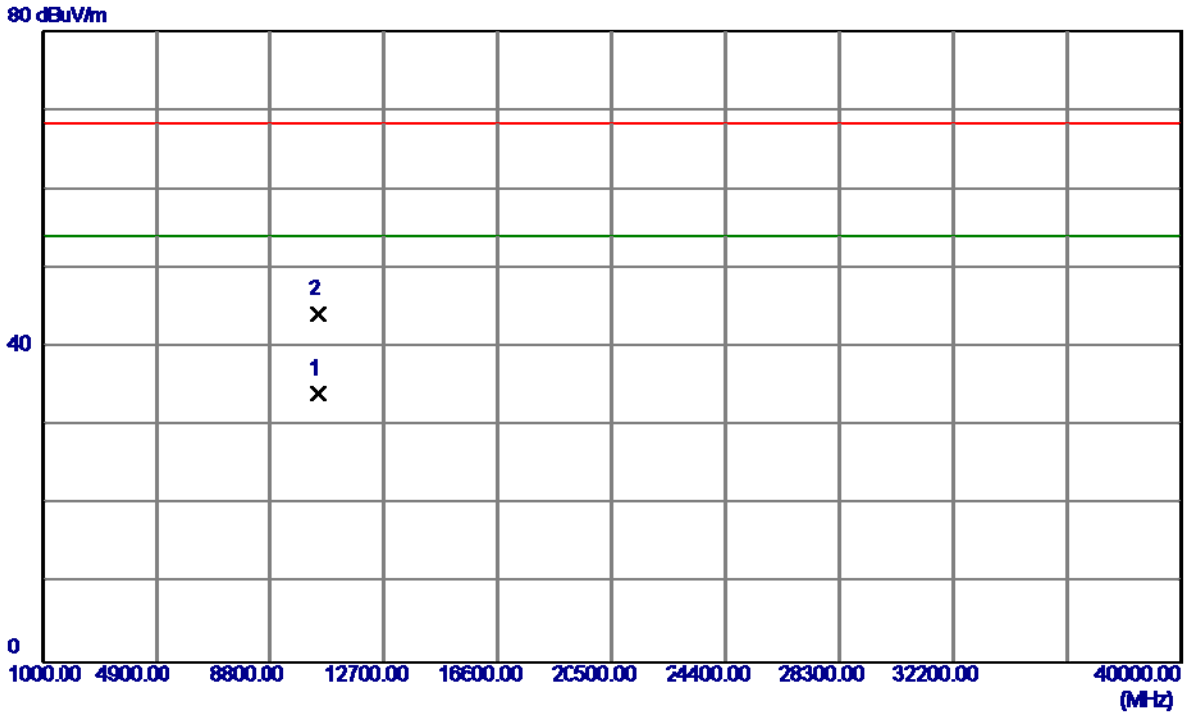
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5147.2000	11.54	39.57	51.11	68.30	-17.19	Peak	
2	5147.2000	3.78	39.57	43.35	54.00	-10.65	AVG	
3	5150.0000	13.14	39.58	52.72	68.30	-15.58	Peak	
4	5150.0000	3.48	39.58	43.06	54.00	-10.94	AVG	
5 *	5222.2000	44.39	39.80	84.19	54.00	30.19	AVG	No Limit
6	5237.2000	53.91	39.85	93.76	68.30	25.46	Peak	No Limit

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

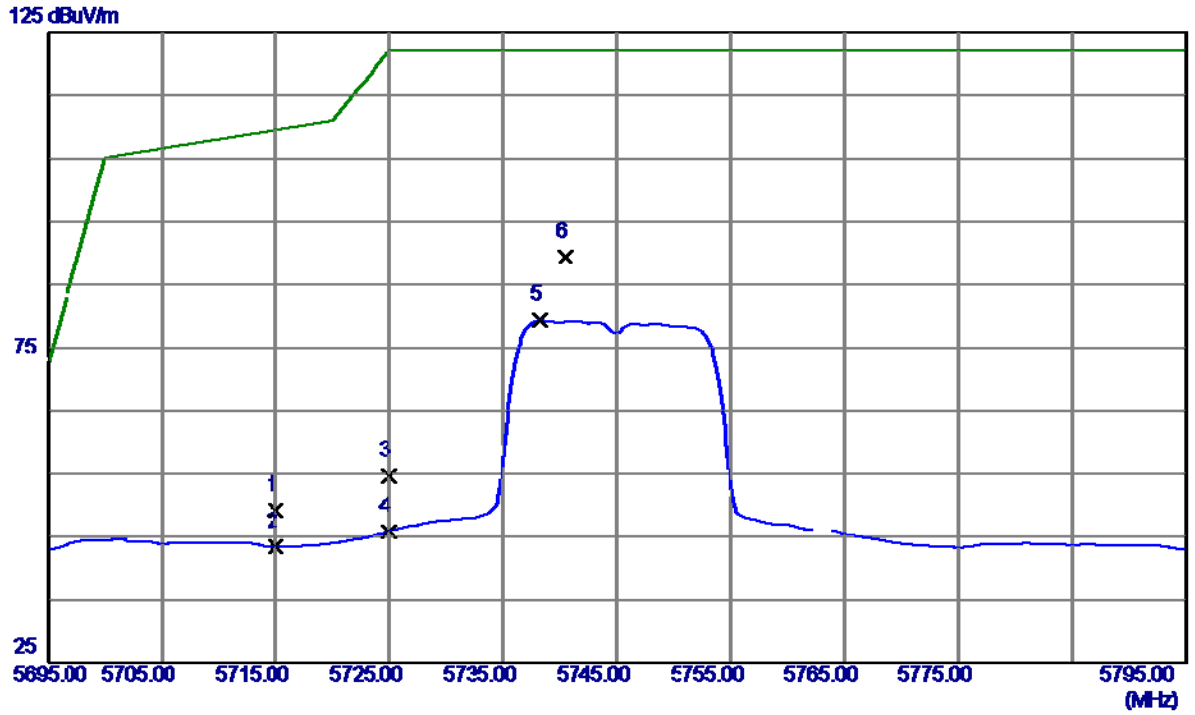
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10458.7000	20.18	13.91	34.09	54.00	-19.91	AVG	
2	10462.4000	30.21	13.92	44.13	68.30	-24.17	Peak	

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

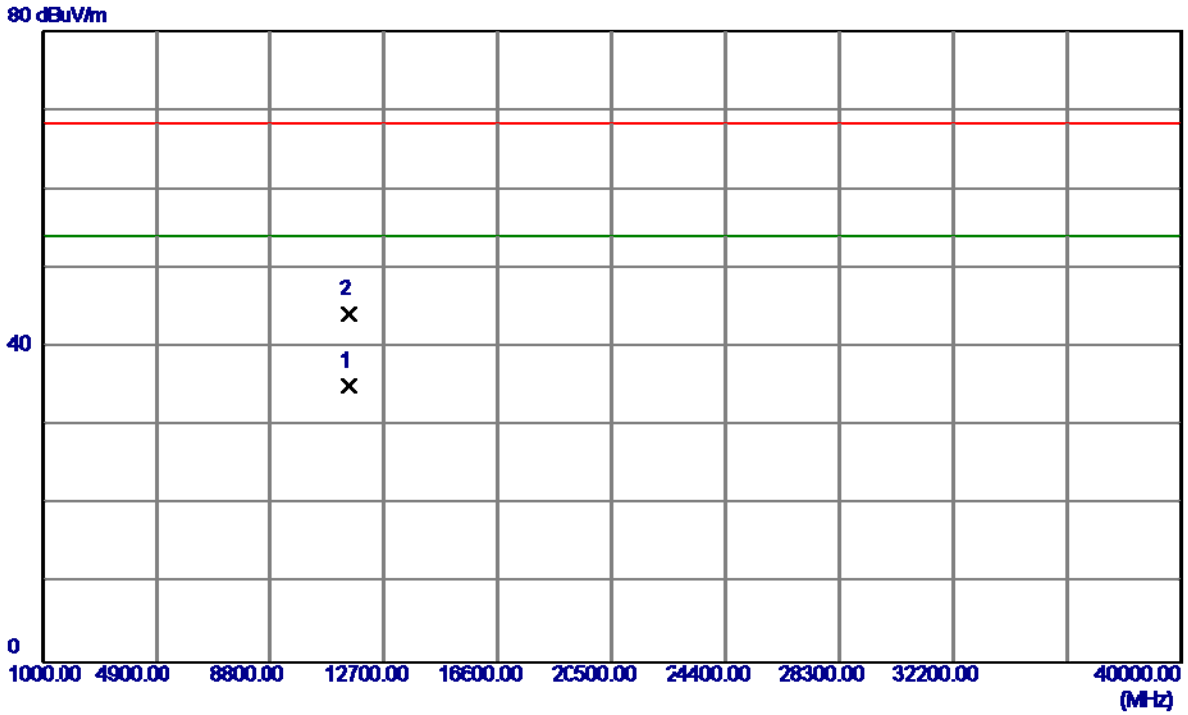
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	8.47	40.79	49.26	109.50	-60.24	Peak	
2	5715.0000	2.52	40.79	43.31	109.50	-66.19	AVG	
3	5725.0000	13.75	40.80	54.55	122.30	-67.75	Peak	
4	5725.0000	4.98	40.80	45.78	122.30	-76.52	AVG	
5	5738.2000	38.54	40.81	79.35	122.30	-42.95	AVG	
6 *	5740.4500	48.57	40.81	89.38	122.30	-32.92	Peak	

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

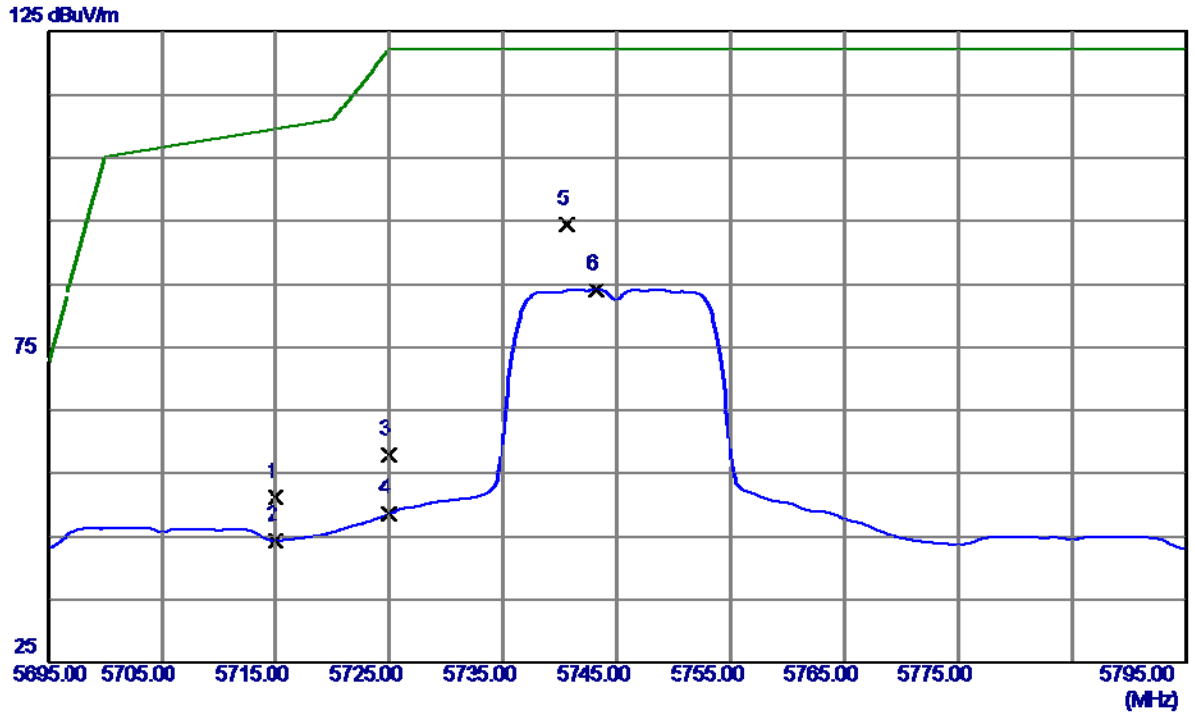
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11491.4000	19.56	15.53	35.09	54.00	-18.91	AVG	
2	11489.9000	28.68	15.53	44.21	68.30	-24.09	Peak	

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

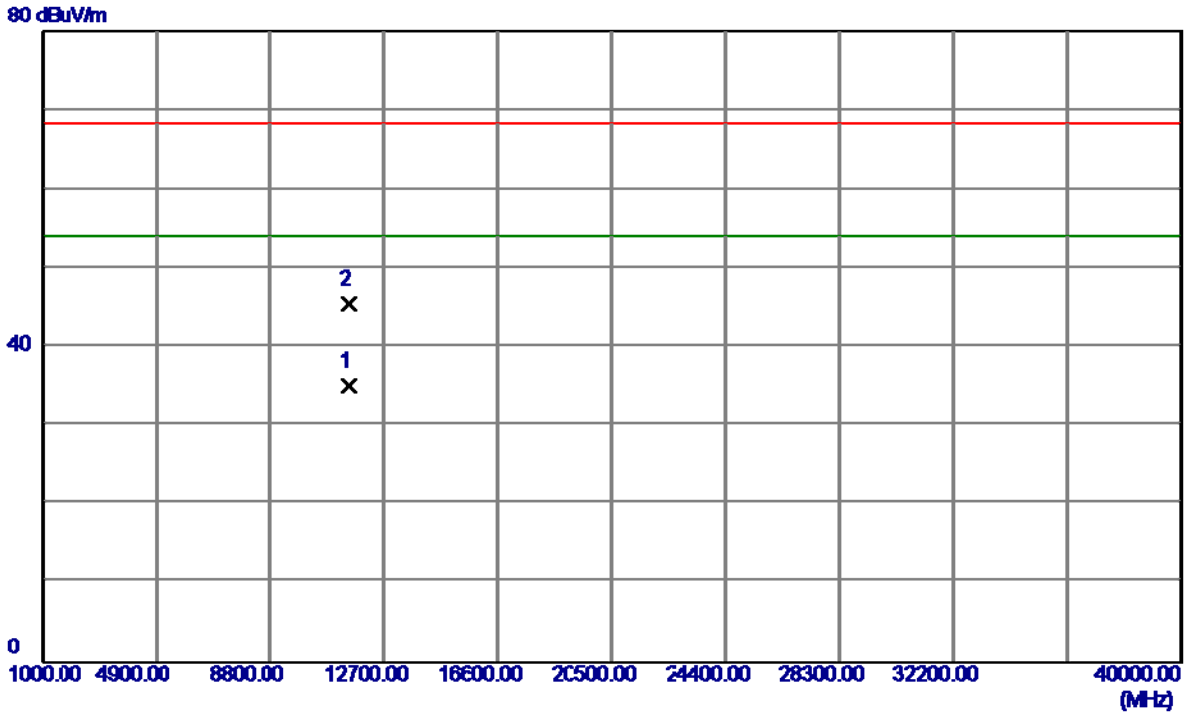
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	10.42	40.79	51.21	109.50	-58.29	Peak	
2	5715.0000	3.59	40.79	44.38	109.50	-65.12	AVG	
3	5725.0000	17.14	40.80	57.94	122.30	-64.36	Peak	
4	5725.0000	7.73	40.80	48.53	122.30	-73.77	AVG	
5 *	5740.5500	53.52	40.81	94.33	122.30	-27.97	Peak	
6	5743.2000	43.28	40.82	84.10	122.30	-38.20	AVG	

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

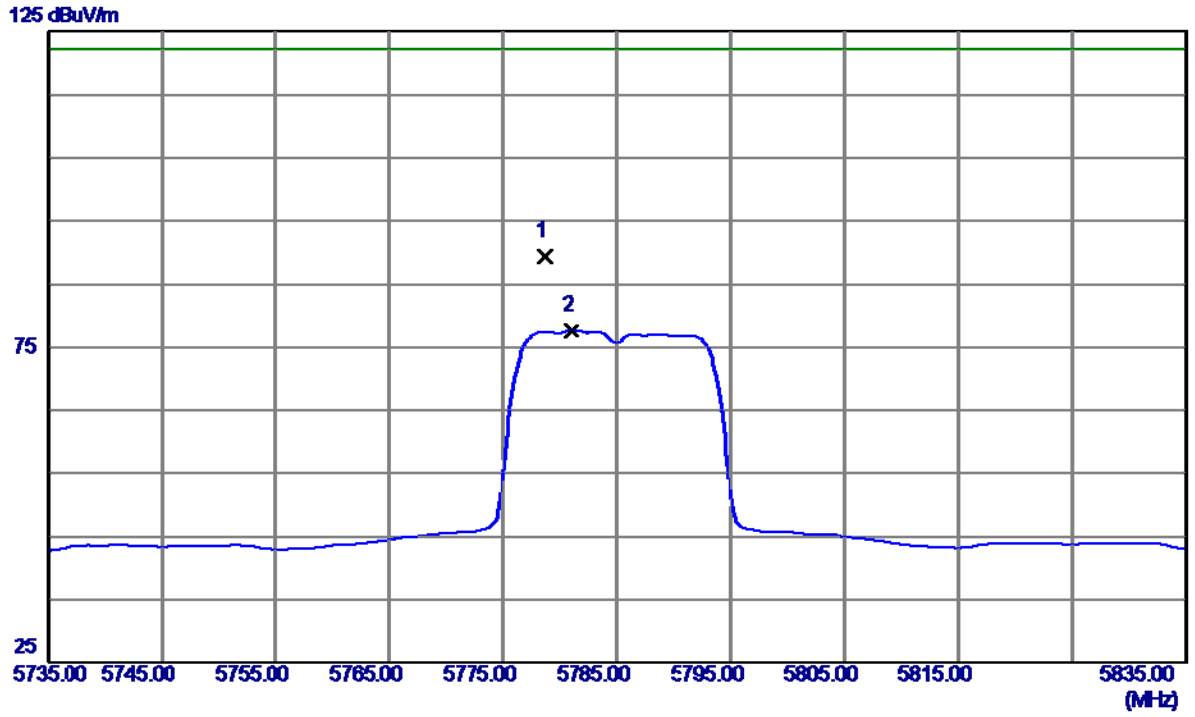
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11489.1000	19.51	15.53	35.04	54.00	-18.96	AVG	
2	11490.2000	29.84	15.53	45.37	68.30	-22.93	Peak	

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

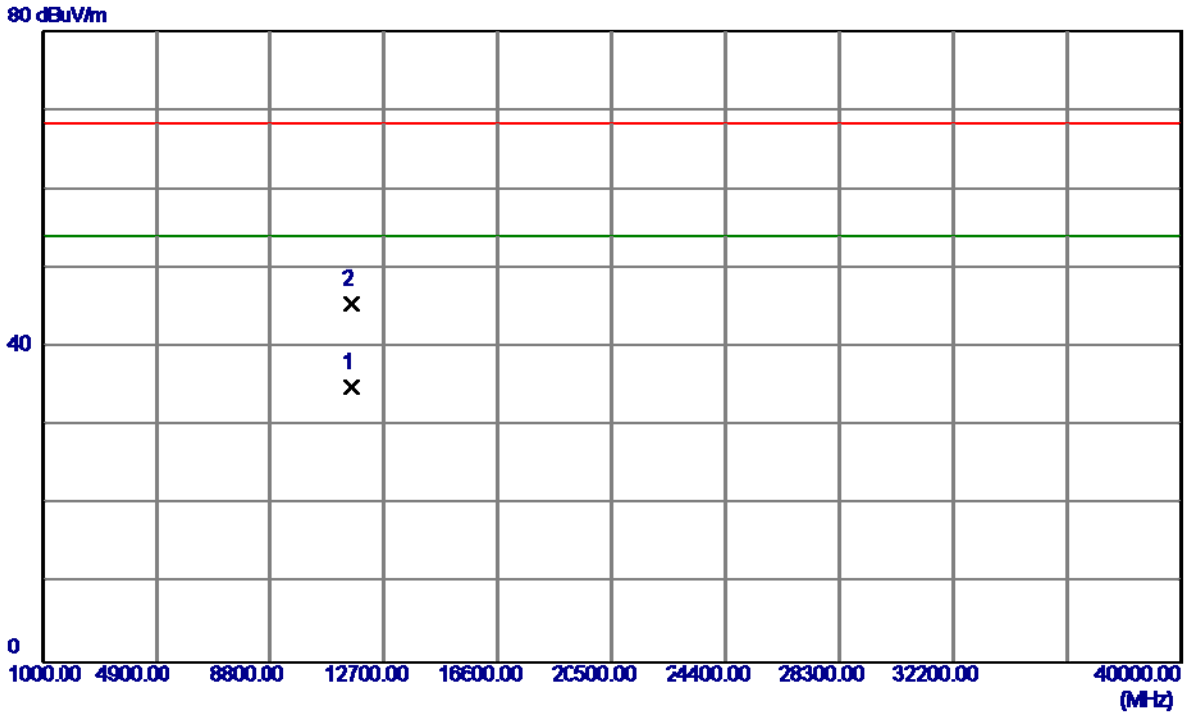
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5778.6500	48.47	40.84	89.31	122.30	-32.99	Peak	
2	5780.9500	36.79	40.84	77.63	122.30	-44.67	AVG	

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

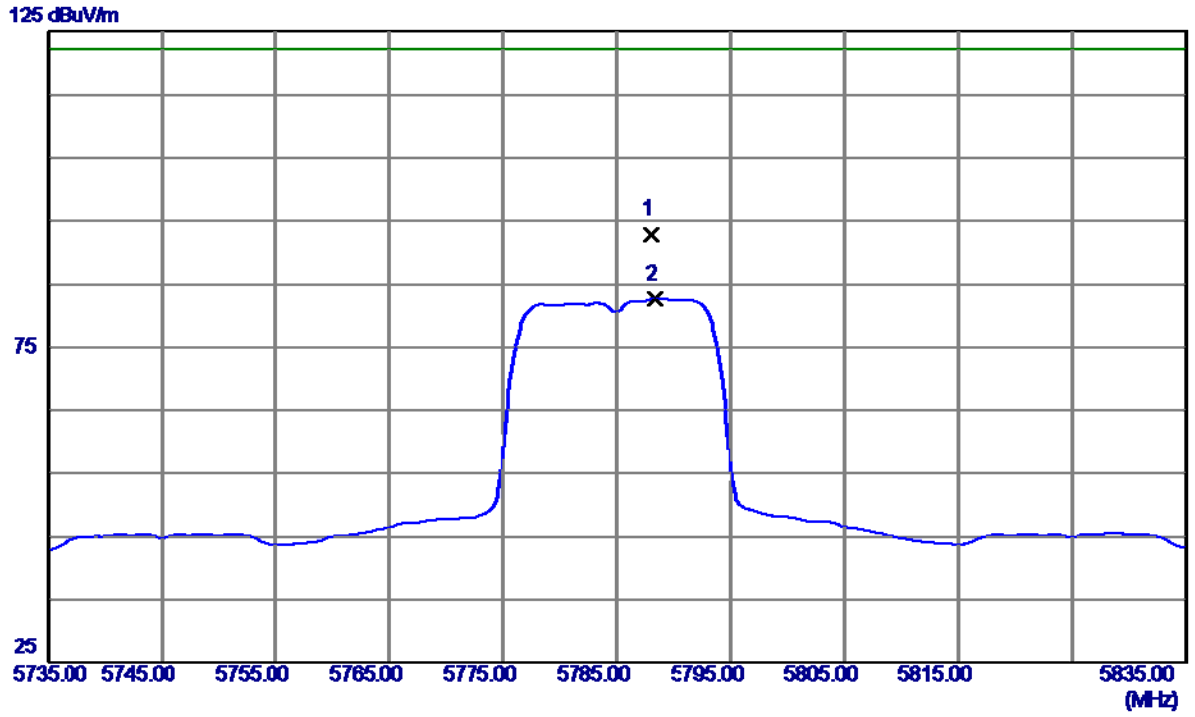
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11568.7000	19.41	15.50	34.91	54.00	-19.09	AVG	
2	11571.2000	29.96	15.49	45.45	68.30	-22.85	Peak	

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

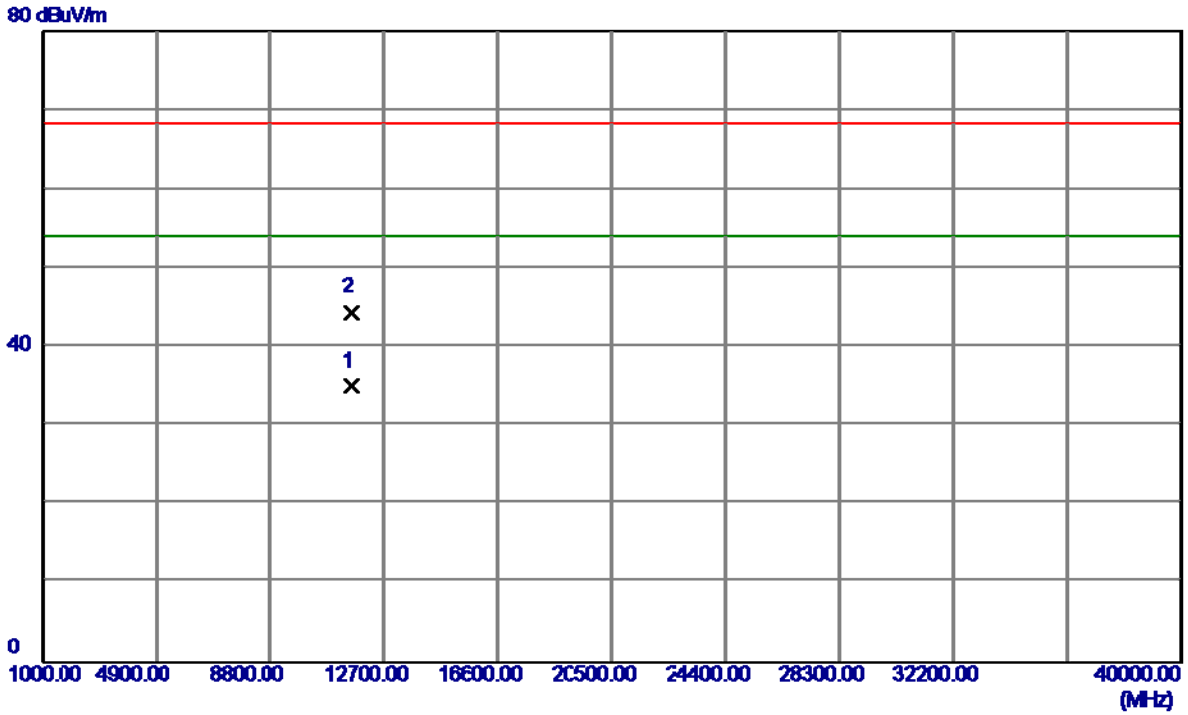
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5788.0000	51.90	40.85	92.75	122.30	-29.55	Peak	
2	5788.3500	41.77	40.85	82.62	122.30	-39.68	AVG	

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

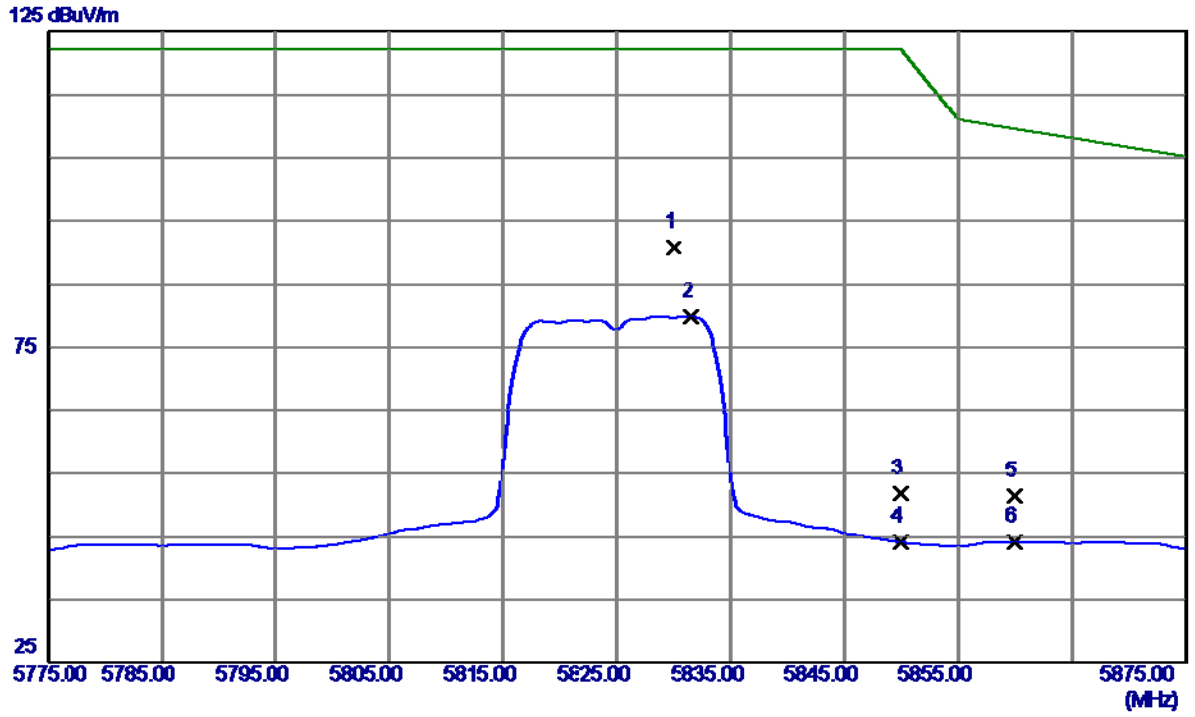
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11569.4000	19.51	15.50	35.01	54.00	-18.99	AVG	
2	11570.0000	28.90	15.50	44.40	68.30	-23.90	Peak	

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

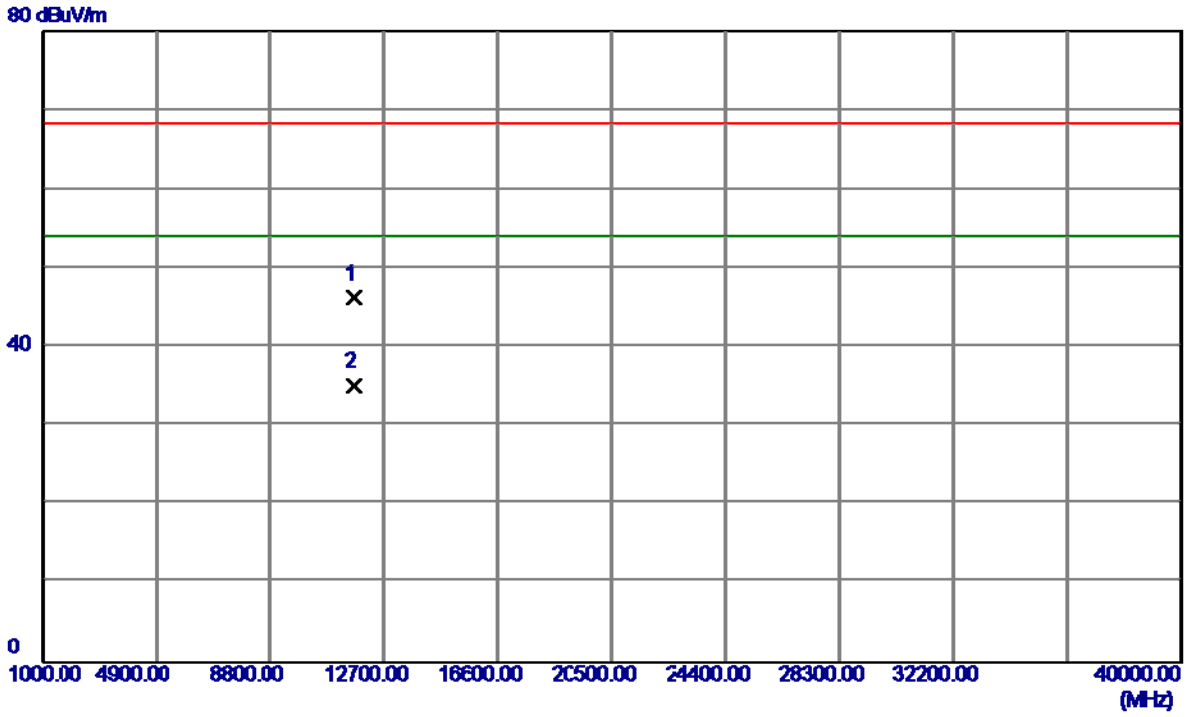
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5830.0000	49.97	40.88	90.85	122.30	-31.45	Peak	
2	5831.5500	38.96	40.88	79.84	122.30	-42.46	AVG	
3	5850.0000	10.88	40.89	51.77	122.30	-70.53	Peak	
4	5850.0000	3.30	40.89	44.19	122.30	-78.11	AVG	
5	5860.0000	10.47	40.90	51.37	109.50	-58.13	Peak	
6	5860.0000	3.32	40.90	44.22	109.50	-65.28	AVG	

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

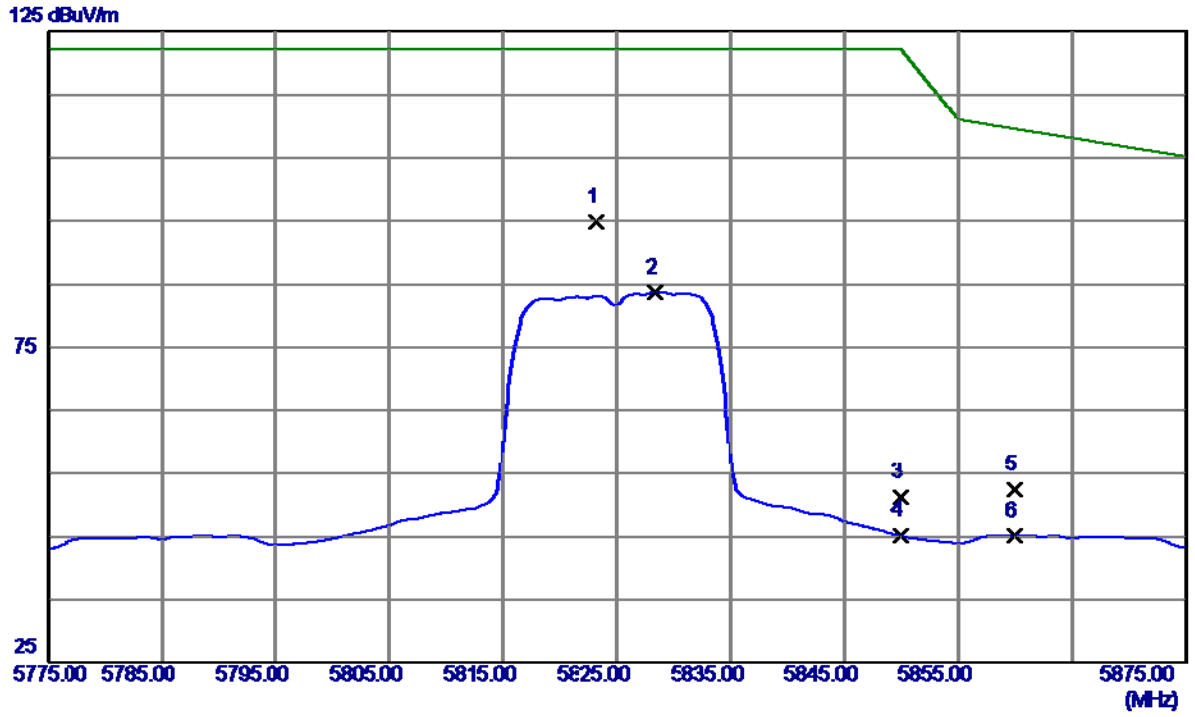
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11649.4750	30.72	15.44	46.16	68.30	-22.14	Peak	
2 *	11650.2000	19.57	15.44	35.01	54.00	-18.99	AVG	

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

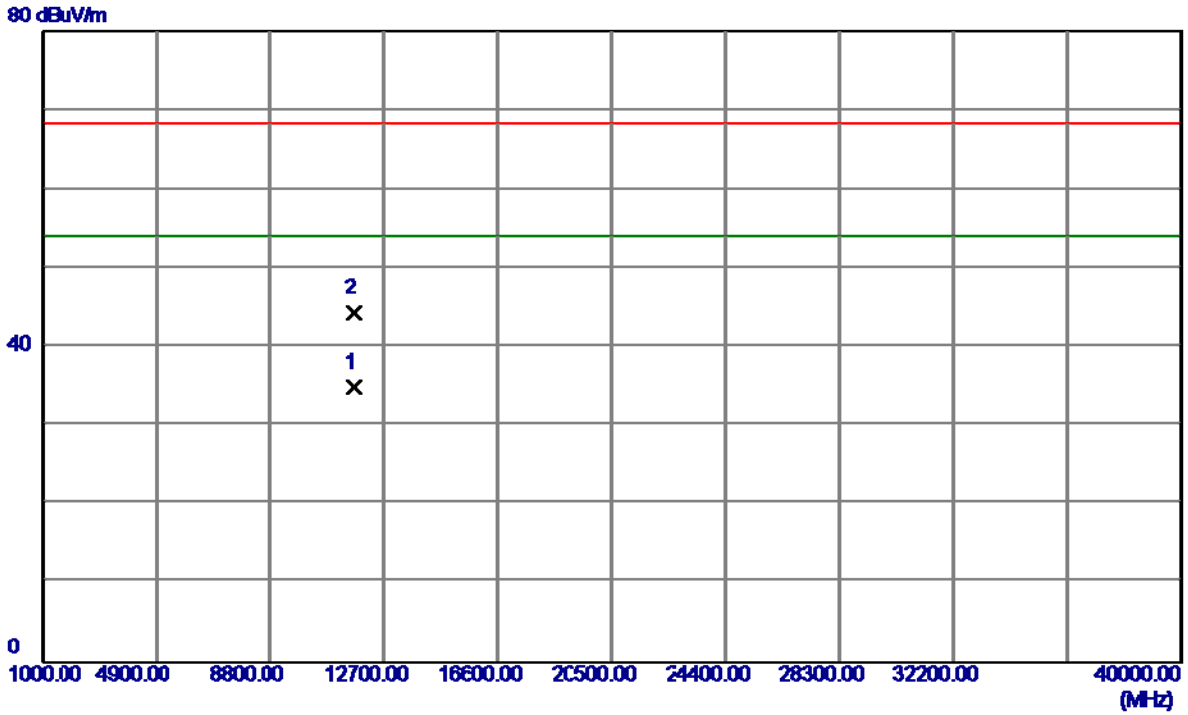
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5823.2000	53.85	40.87	94.72	122.30	-27.58	Peak	
2	5828.3000	42.73	40.88	83.61	122.30	-38.69	AVG	
3	5850.0000	10.40	40.89	51.29	122.30	-71.01	Peak	
4	5850.0000	4.27	40.89	45.16	122.30	-77.14	AVG	
5	5860.0000	11.48	40.90	52.38	109.50	-57.12	Peak	
6	5860.0000	4.20	40.90	45.10	109.50	-64.40	AVG	

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

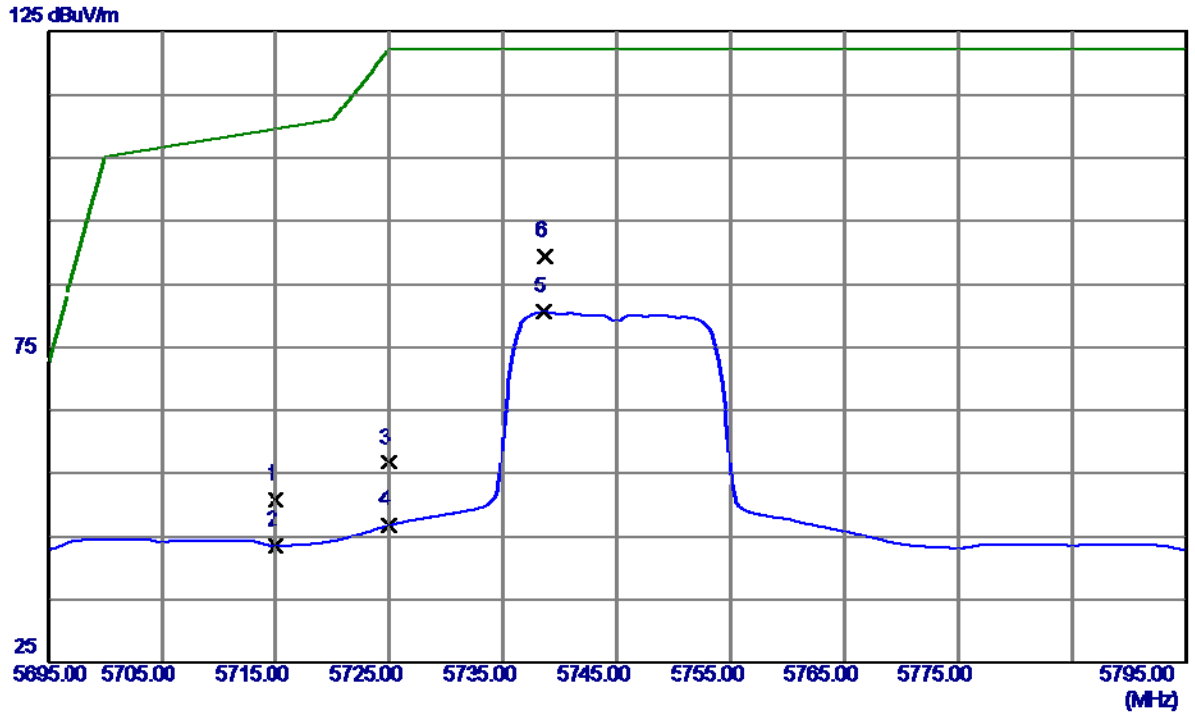
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11649.7250	19.50	15.44	34.94	54.00	-19.06	AVG	
2	11649.8500	28.82	15.44	44.26	68.30	-24.04	Peak	

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

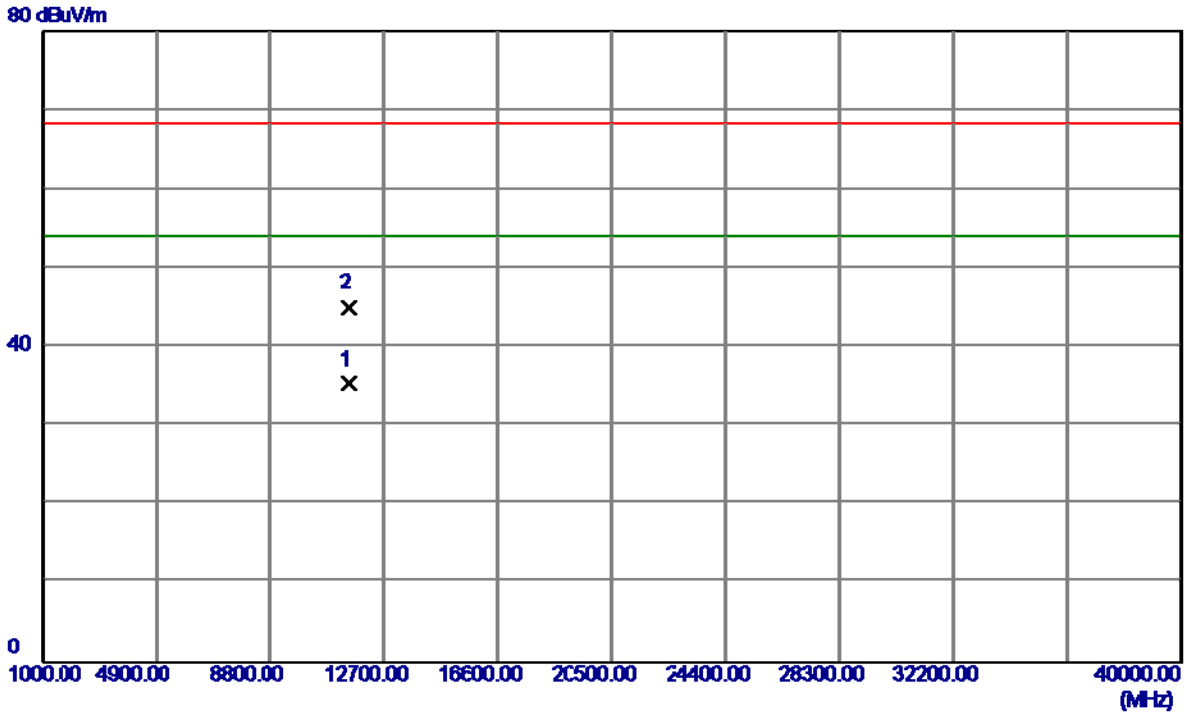
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	9.94	40.79	50.73	109.50	-58.77	Peak	
2	5715.0000	2.77	40.79	43.56	109.50	-65.94	AVG	
3	5725.0000	15.90	40.80	56.70	122.30	-65.60	Peak	
4	5725.0000	5.97	40.80	46.77	122.30	-75.53	AVG	
5	5738.5500	39.72	40.81	80.53	122.30	-41.77	AVG	
6 *	5738.7000	48.51	40.81	89.32	122.30	-32.98	Peak	

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

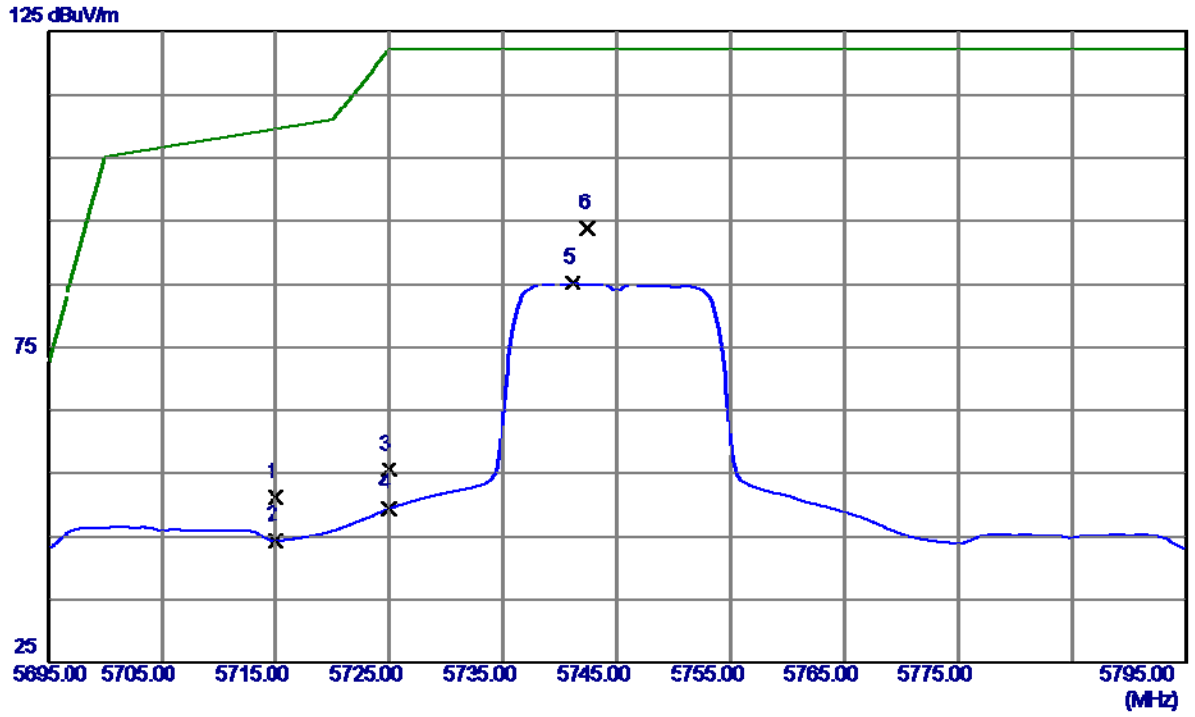
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11490.3000	19.75	15.53	35.28	54.00	-18.72	AVG	
2	11490.5750	29.38	15.53	44.91	68.30	-23.39	Peak	

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

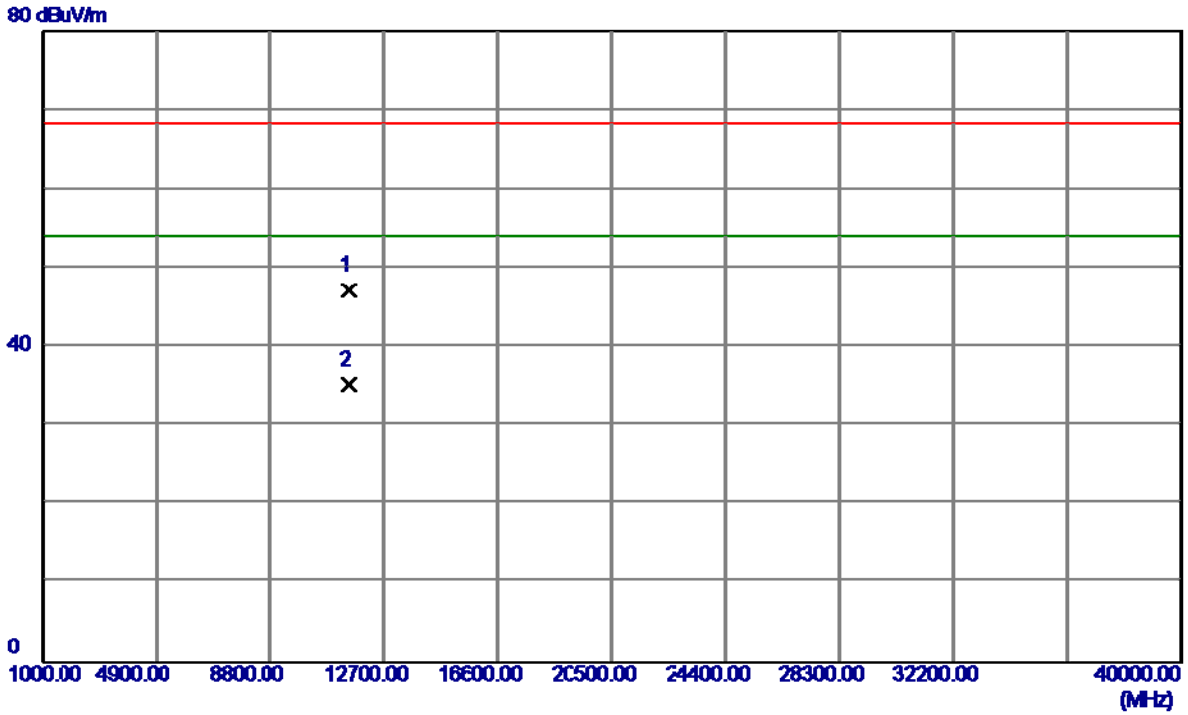
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	10.39	40.79	51.18	109.50	-58.32	Peak	
2	5715.0000	3.54	40.79	44.33	109.50	-65.17	AVG	
3	5725.0000	14.85	40.80	55.65	122.30	-66.65	Peak	
4	5725.0000	8.57	40.80	49.37	122.30	-72.93	AVG	
5	5741.1000	44.32	40.81	85.13	122.30	-37.17	AVG	
6 *	5742.5000	52.95	40.81	93.76	122.30	-28.54	Peak	

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

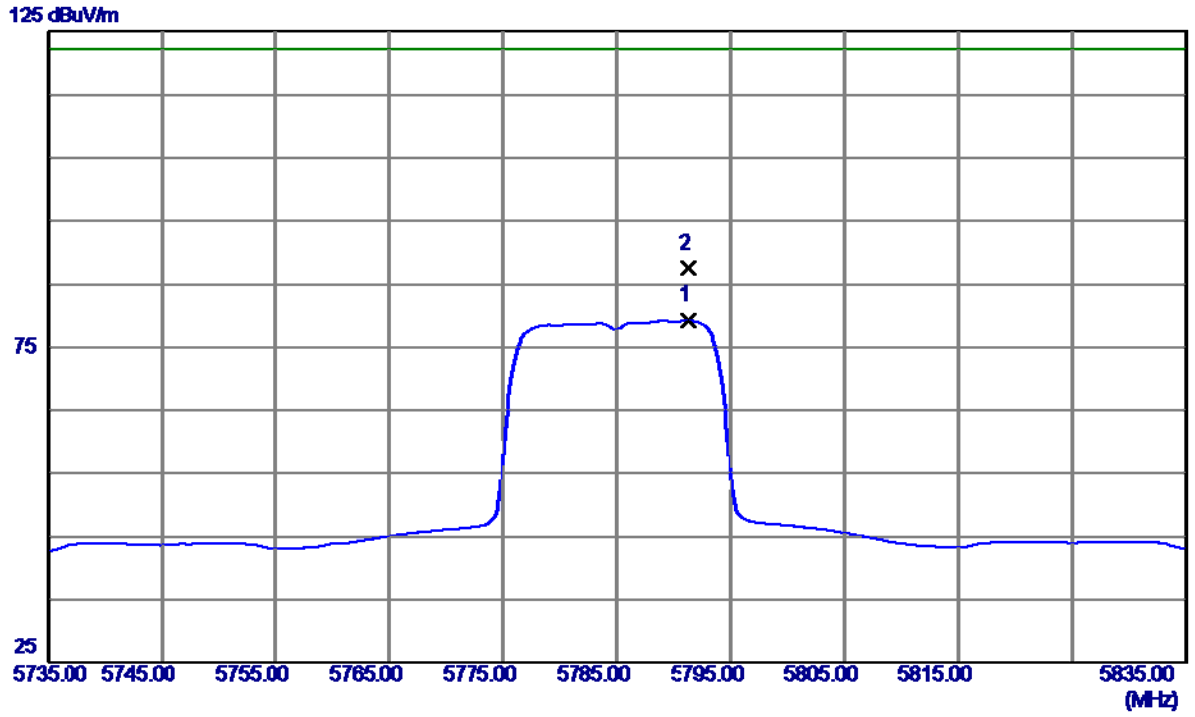
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11489.2500	31.60	15.53	47.13	68.30	-21.17	Peak	
2 *	11489.6500	19.74	15.53	35.27	54.00	-18.73	AVG	

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

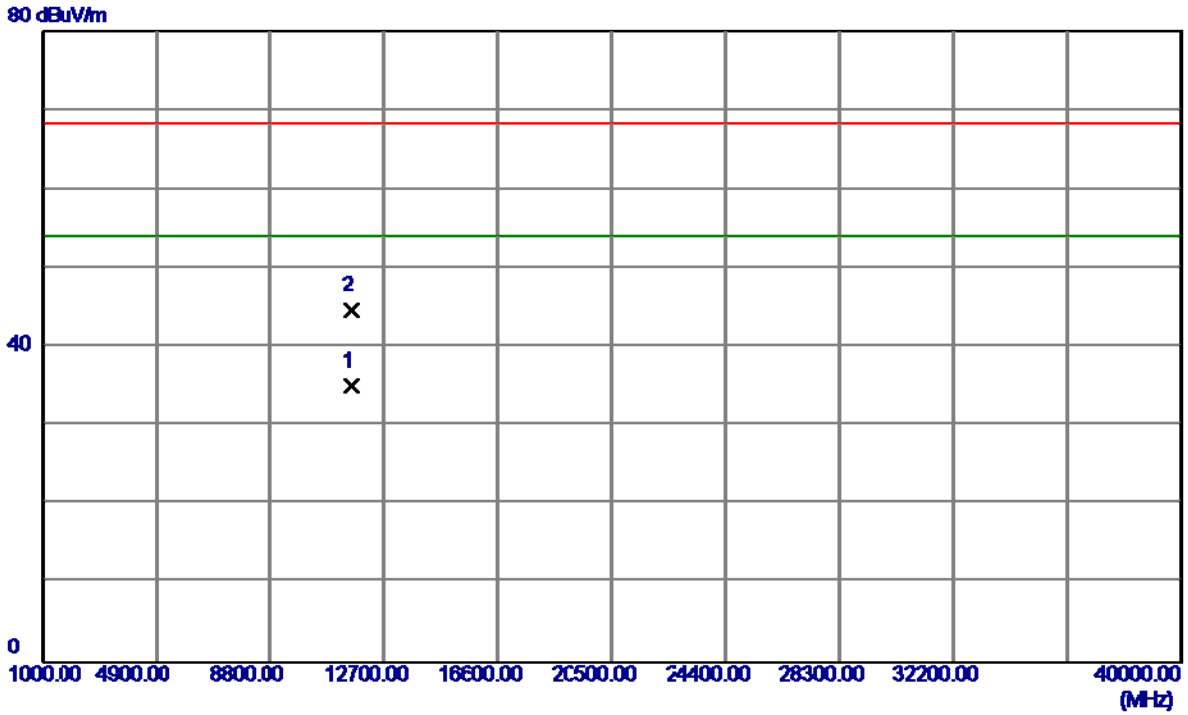
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5791.3000	38.34	40.85	79.19	122.30	-43.11	AVG	
2 *	5791.3500	46.65	40.85	87.50	122.30	-34.80	Peak	

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

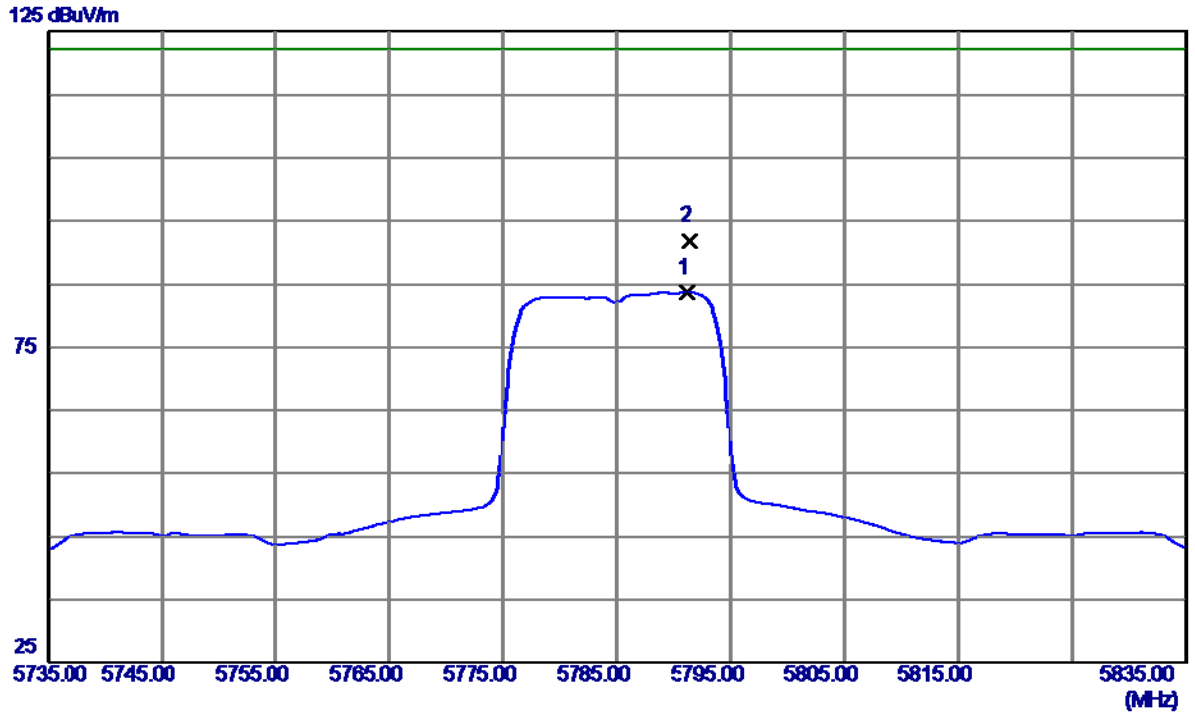
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11569.8250	19.49	15.50	34.99	54.00	-19.01	AVG	
2	11569.8750	29.14	15.50	44.64	68.30	-23.66	Peak	

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

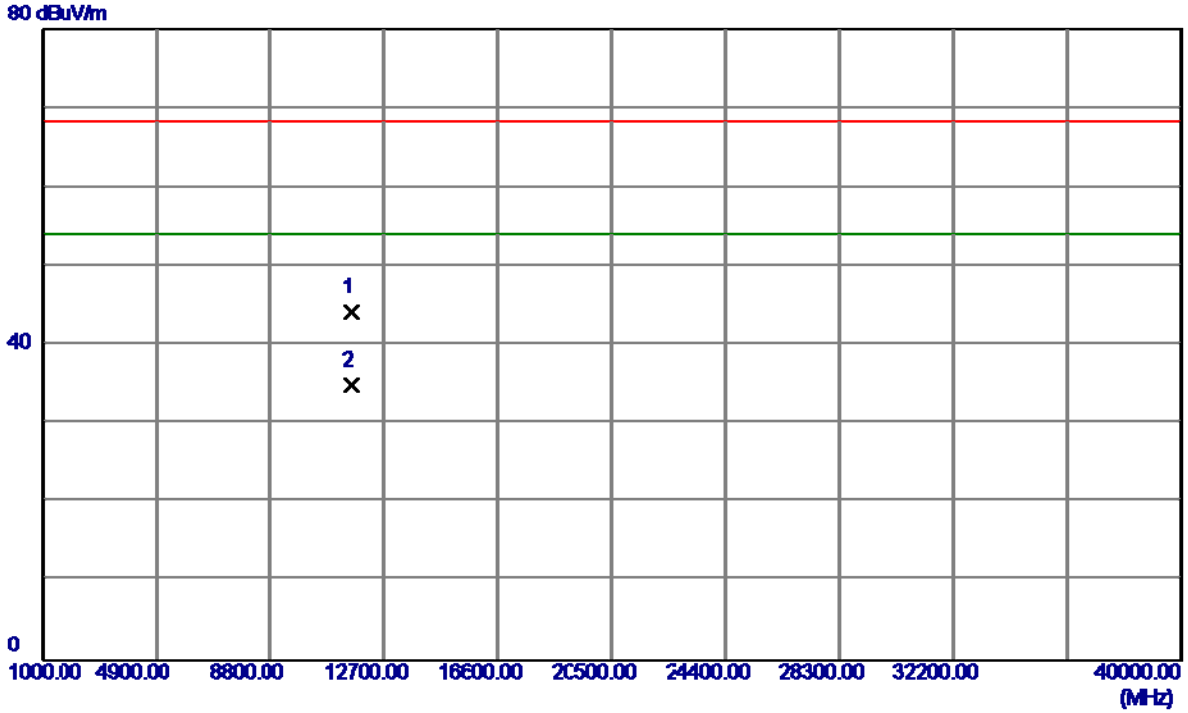
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5791.2000	42.78	40.85	83.63	122.30	-38.67	AVG	
2 *	5791.4000	51.00	40.85	91.85	122.30	-30.45	Peak	

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

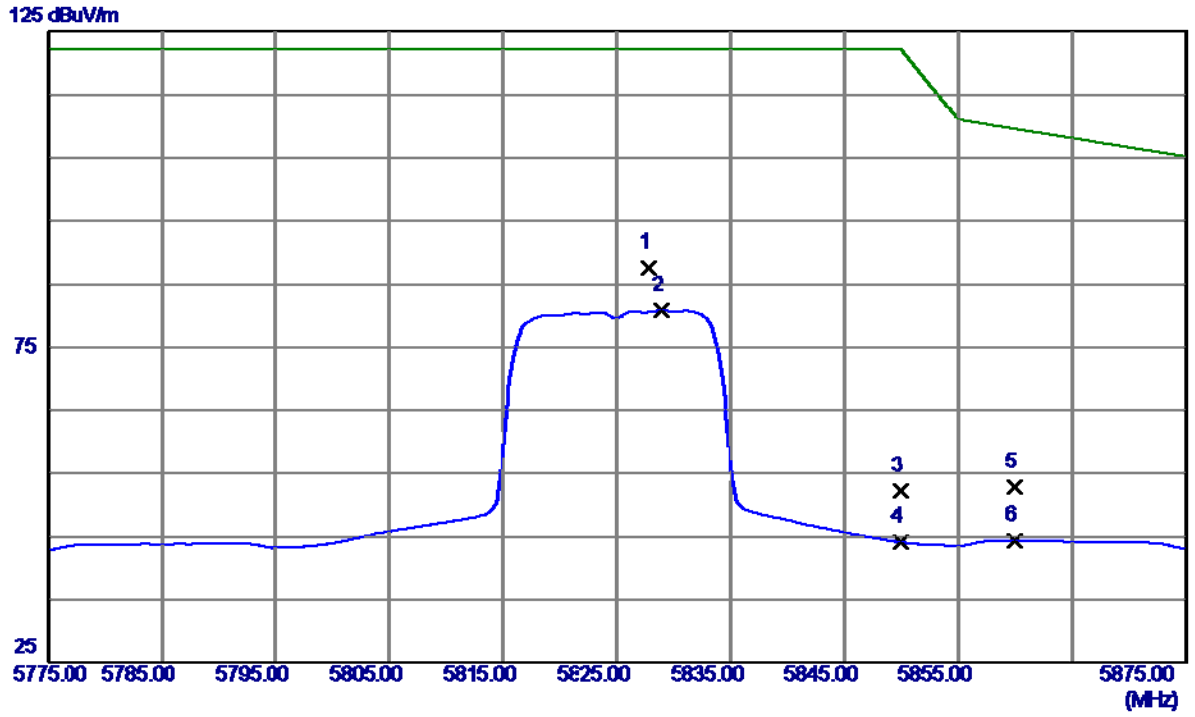
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11569.8250	28.71	15.50	44.21	68.30	-24.09	Peak	
2 *	11570.2750	19.45	15.50	34.95	54.00	-19.05	AVG	

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

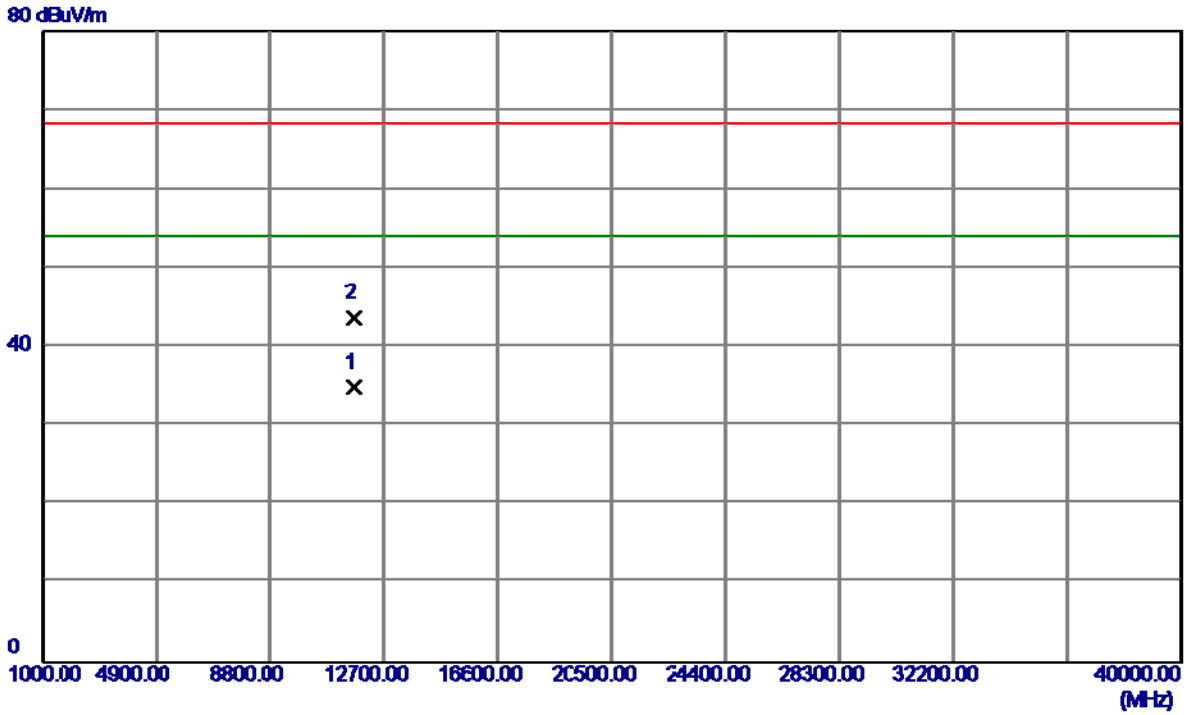
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5827.7500	46.81	40.88	87.69	122.30	-34.61	Peak	
2	5828.9000	39.87	40.88	80.75	122.30	-41.55	AVG	
3	5850.0000	11.38	40.89	52.27	122.30	-70.03	Peak	
4	5850.0000	3.28	40.89	44.17	122.30	-78.13	AVG	
5	5860.0000	11.84	40.90	52.74	109.50	-56.76	Peak	
6	5860.0000	3.48	40.90	44.38	109.50	-65.12	AVG	

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

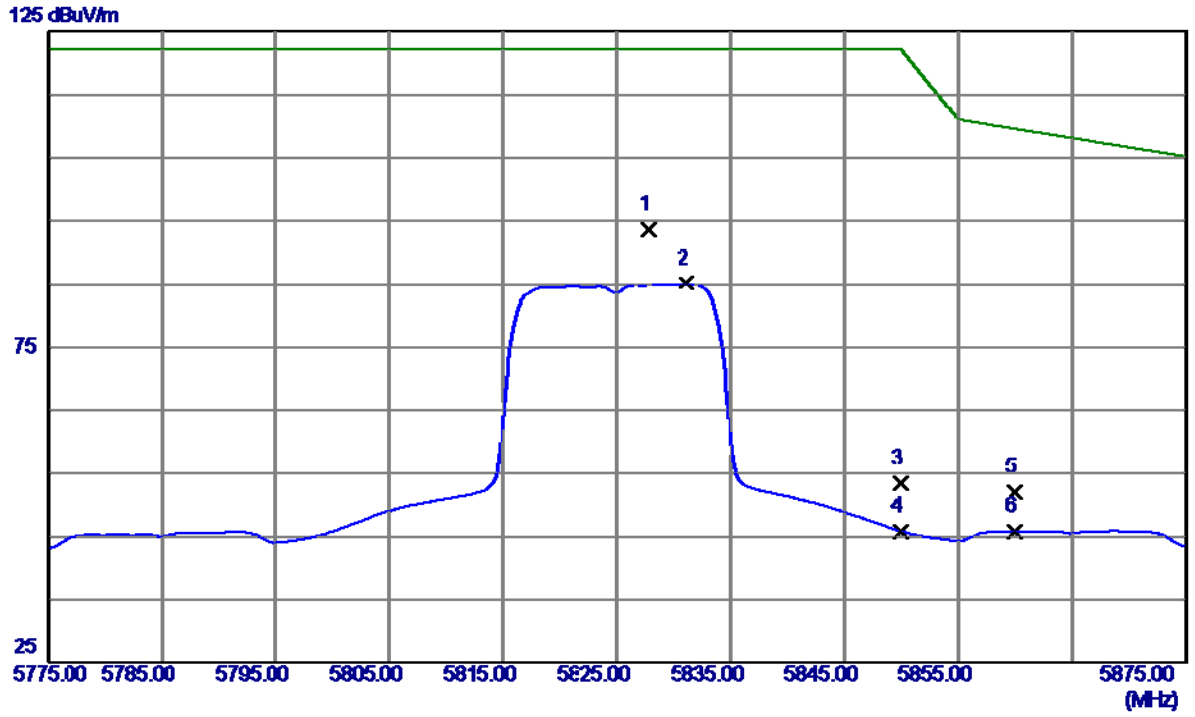
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11649.7000	19.39	15.44	34.83	54.00	-19.17	AVG	
2	11650.1250	28.22	15.44	43.66	68.30	-24.64	Peak	

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

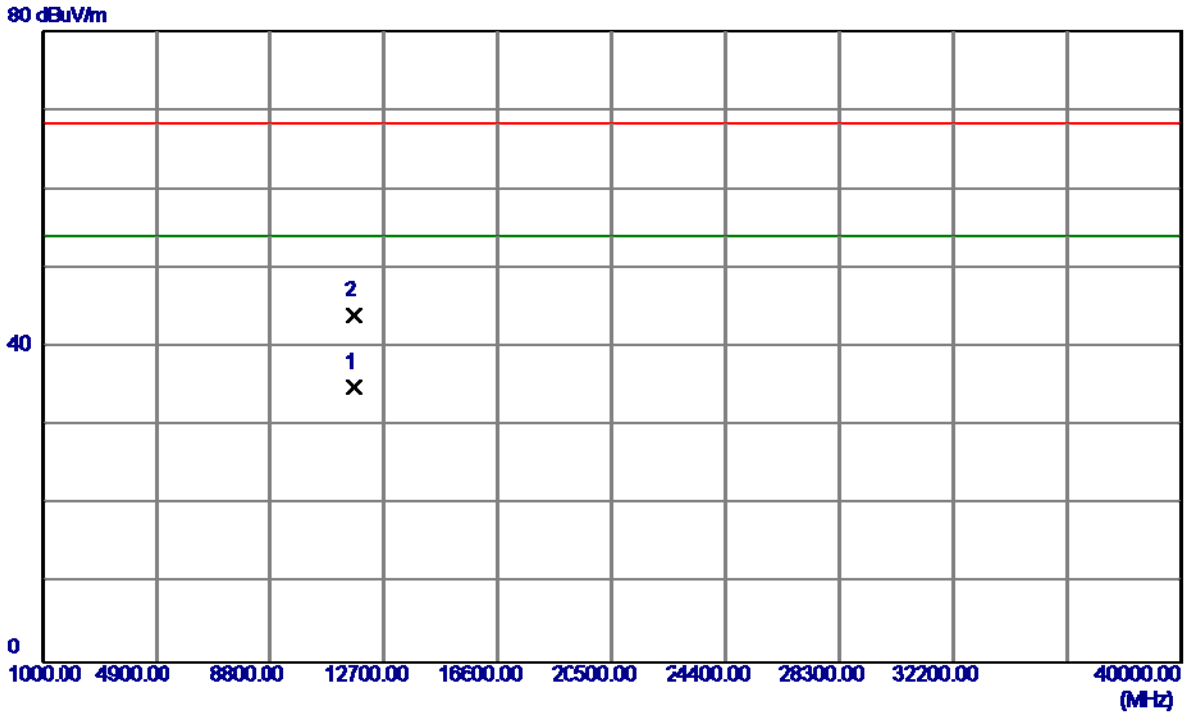
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5827.7500	52.71	40.88	93.59	122.30	-28.71	Peak	
2	5831.1500	44.22	40.88	85.10	122.30	-37.20	AVG	
3	5850.0000	12.52	40.89	53.41	122.30	-68.89	Peak	
4	5850.0000	4.97	40.89	45.86	122.30	-76.44	AVG	
5	5860.0000	11.09	40.90	51.99	109.50	-57.51	Peak	
6	5860.0000	4.83	40.90	45.73	109.50	-63.77	AVG	

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

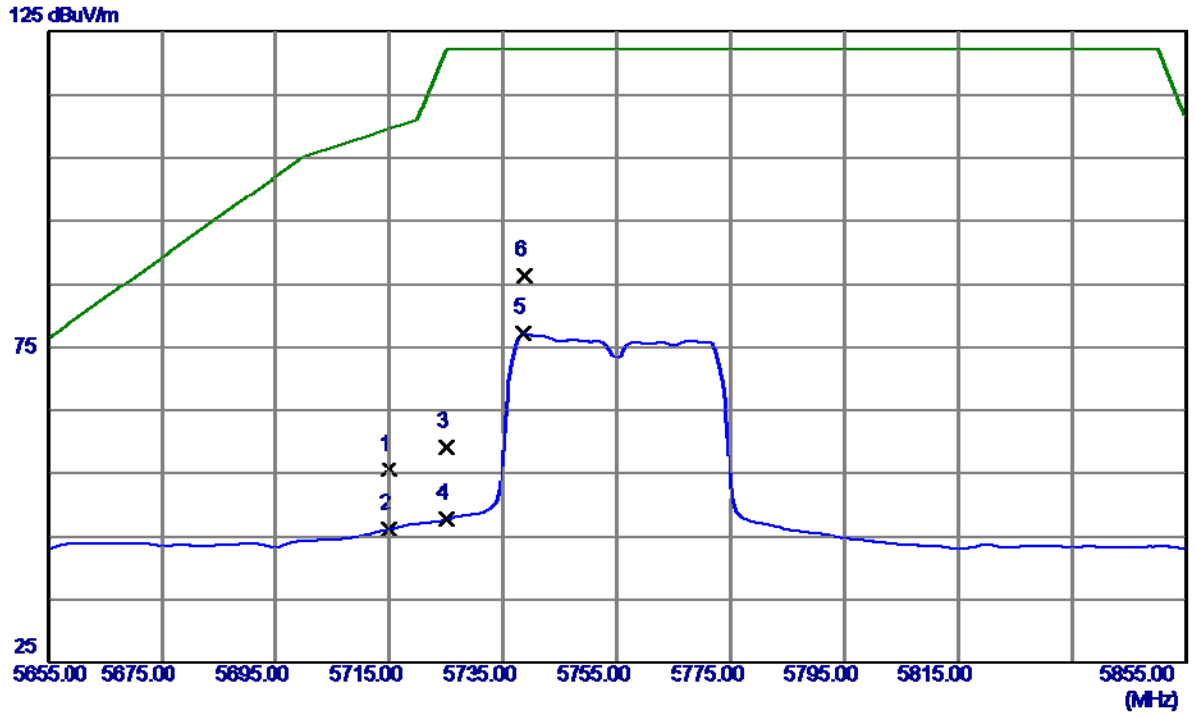
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11650.2750	19.49	15.44	34.93	54.00	-19.07	AVG	
2	11649.9500	28.55	15.44	43.99	68.30	-24.31	Peak	

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

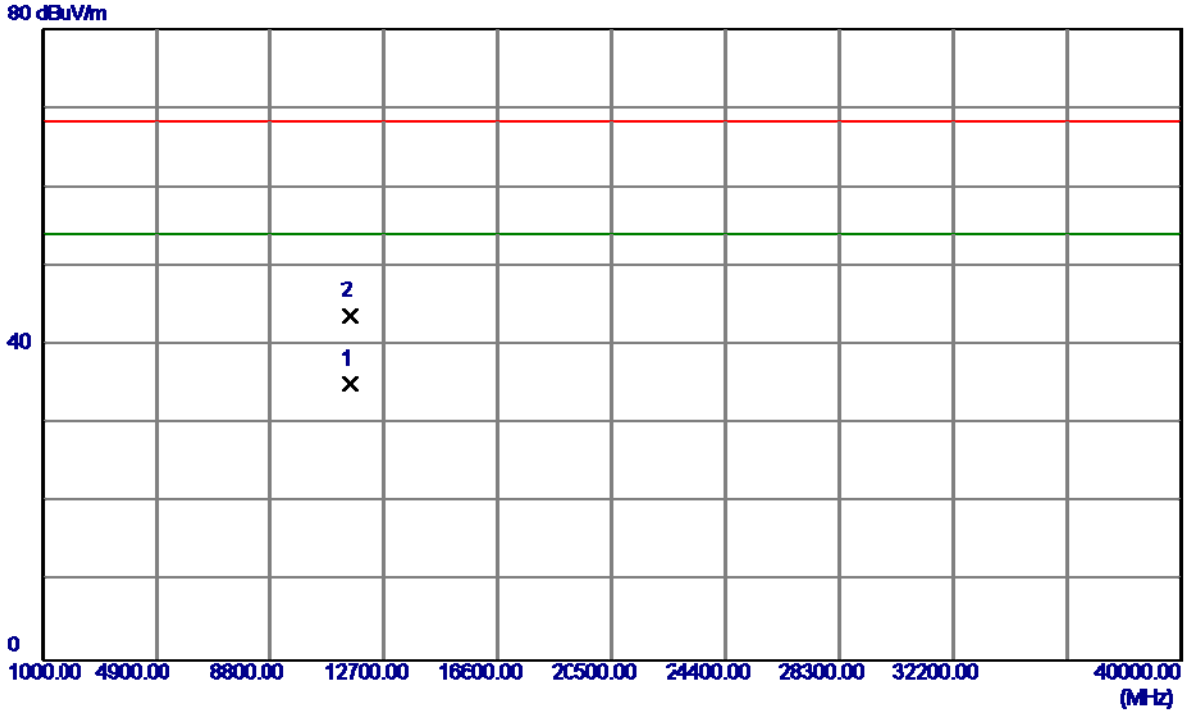
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	14.86	40.79	55.65	109.50	-53.85	Peak	
2	5715.0000	5.38	40.79	46.17	109.50	-63.33	AVG	
3	5725.0000	18.40	40.80	59.20	122.30	-63.10	Peak	
4	5725.0000	6.93	40.80	47.73	122.30	-74.57	AVG	
5	5738.6000	36.34	40.81	77.15	122.30	-45.15	AVG	
6 *	5738.7000	45.52	40.81	86.33	122.30	-35.97	Peak	

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

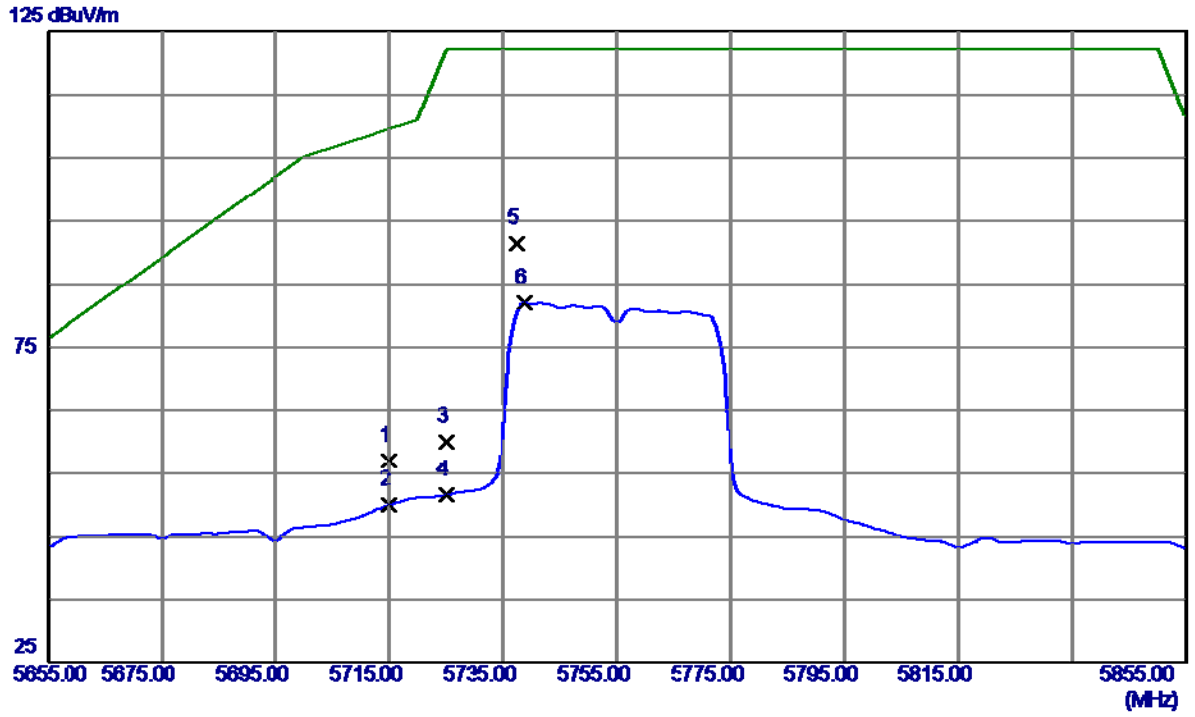
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11509.8000	19.50	15.54	35.04	54.00	-18.96	AVG	
2	11510.3250	28.07	15.54	43.61	68.30	-24.69	Peak	

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

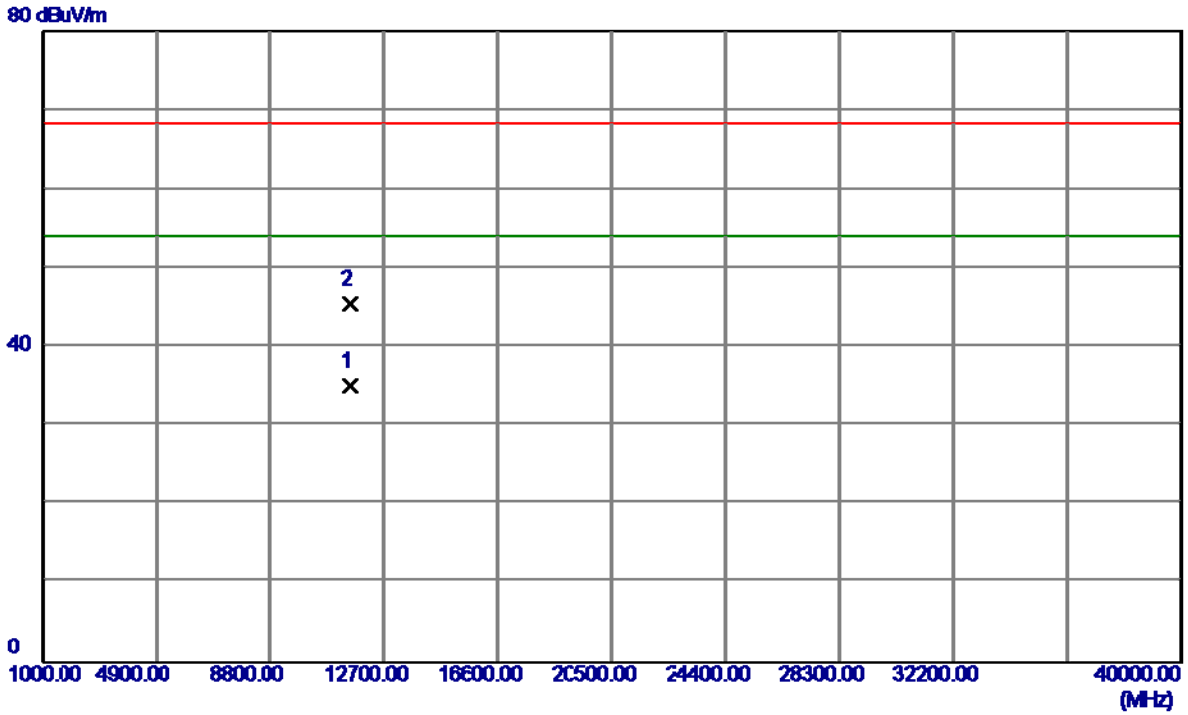
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	16.29	40.79	57.08	109.50	-52.42	Peak	
2	5715.0000	9.16	40.79	49.95	109.50	-59.55	AVG	
3	5725.0000	19.23	40.80	60.03	122.30	-62.27	Peak	
4	5725.0000	10.77	40.80	51.57	122.30	-70.73	AVG	
5 *	5737.5000	50.56	40.81	91.37	122.30	-30.93	Peak	
6	5738.7000	41.14	40.81	81.95	122.30	-40.35	AVG	

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

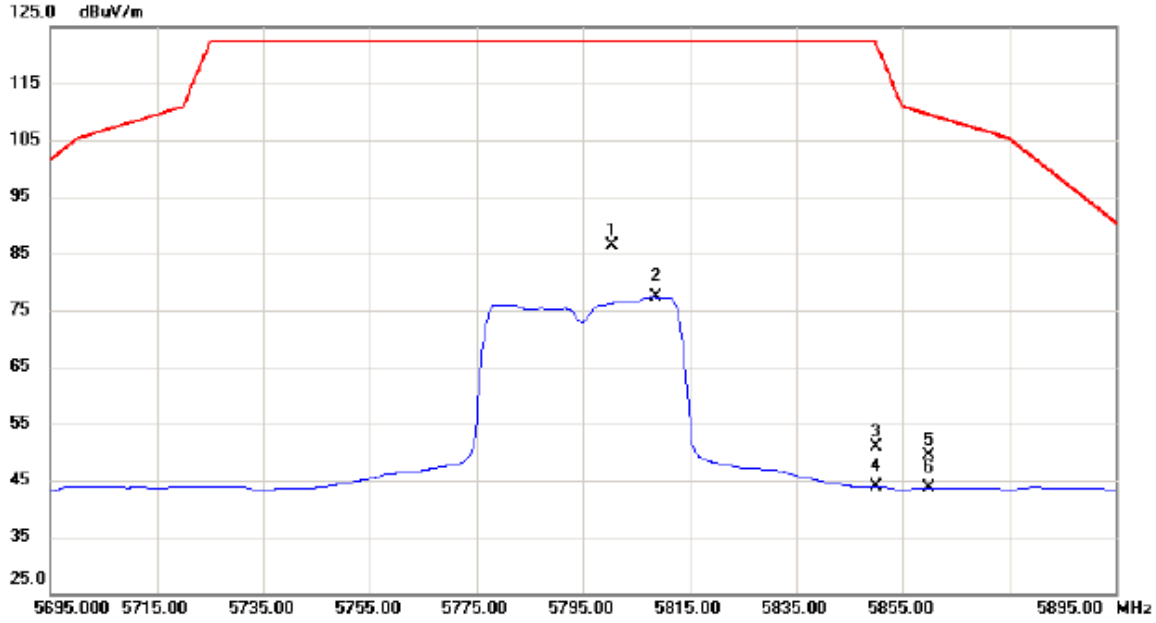
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11509.7250	19.55	15.54	35.09	54.00	-18.91	AVG	
2	11510.9000	29.94	15.54	45.48	68.30	-22.82	Peak	

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

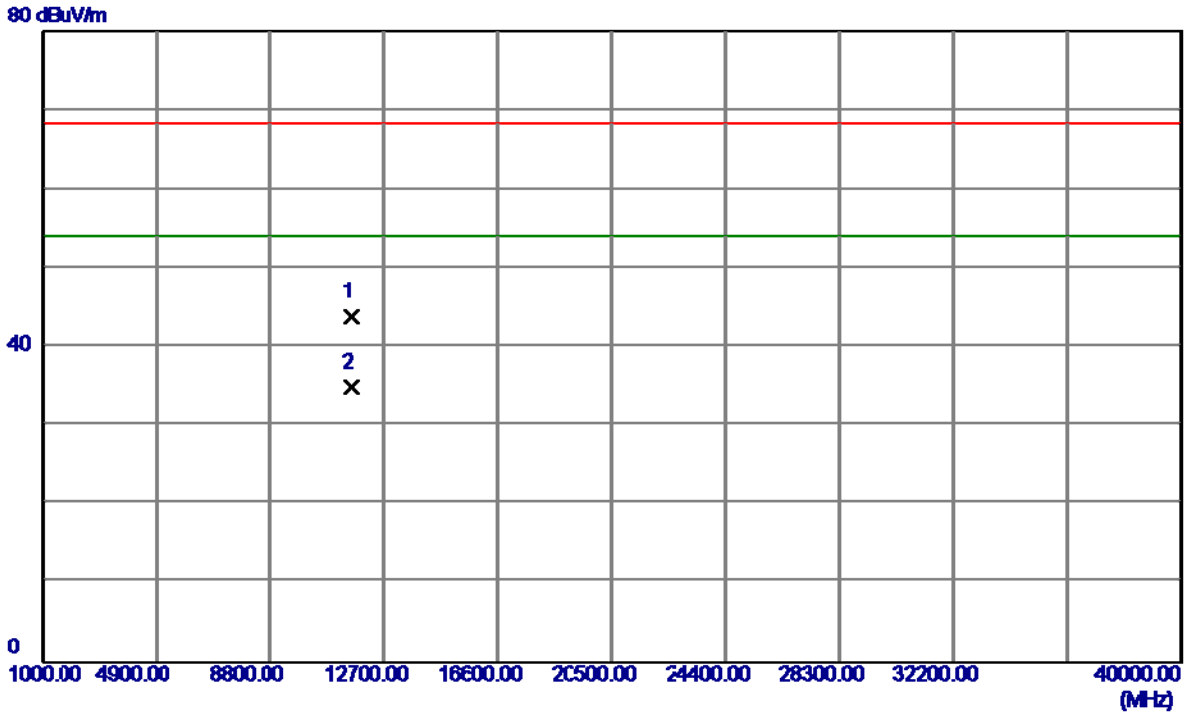
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5800.500	45.40	40.86	86.26	122.30	-36.04	peak	
2		5808.600	36.40	40.86	77.26	122.30	-45.04	AVG	
3		5850.000	9.88	40.89	50.77	122.30	-71.53	peak	
4		5850.000	2.92	40.89	43.81	122.30	-78.49	AVG	
5		5860.000	8.41	40.90	49.31	109.50	-60.19	peak	
6		5860.000	2.76	40.90	43.66	109.50	-65.84	AVG	

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

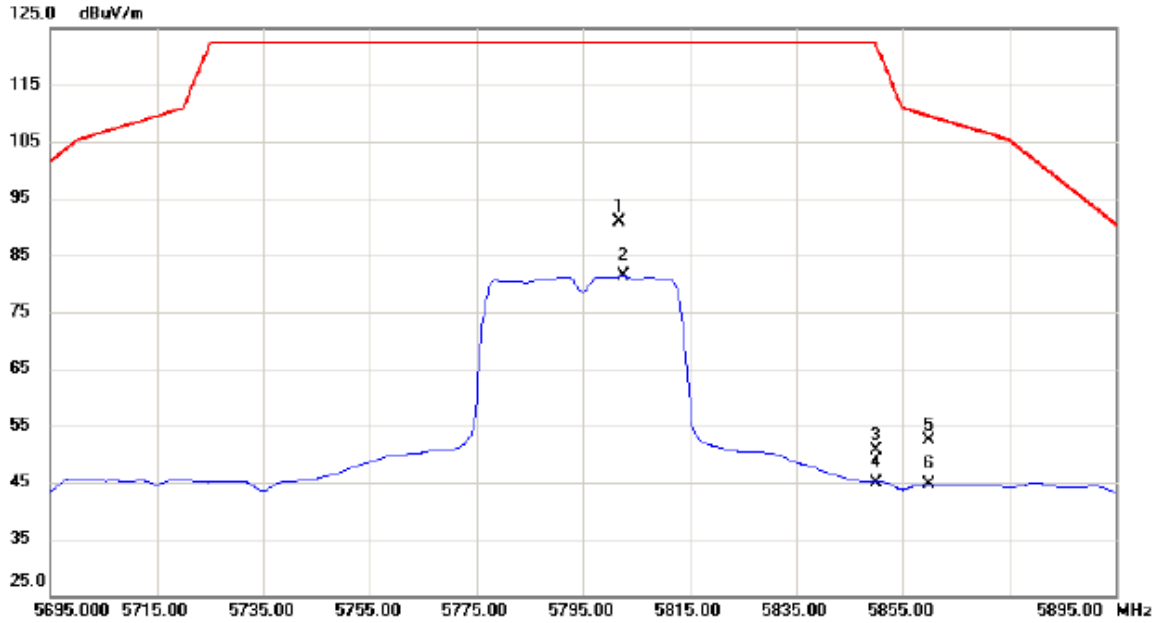
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11589.8750	28.36	15.48	43.84	68.30	-24.46	Peak	
2 *	11590.2000	19.42	15.48	34.90	54.00	-19.10	AVG	

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

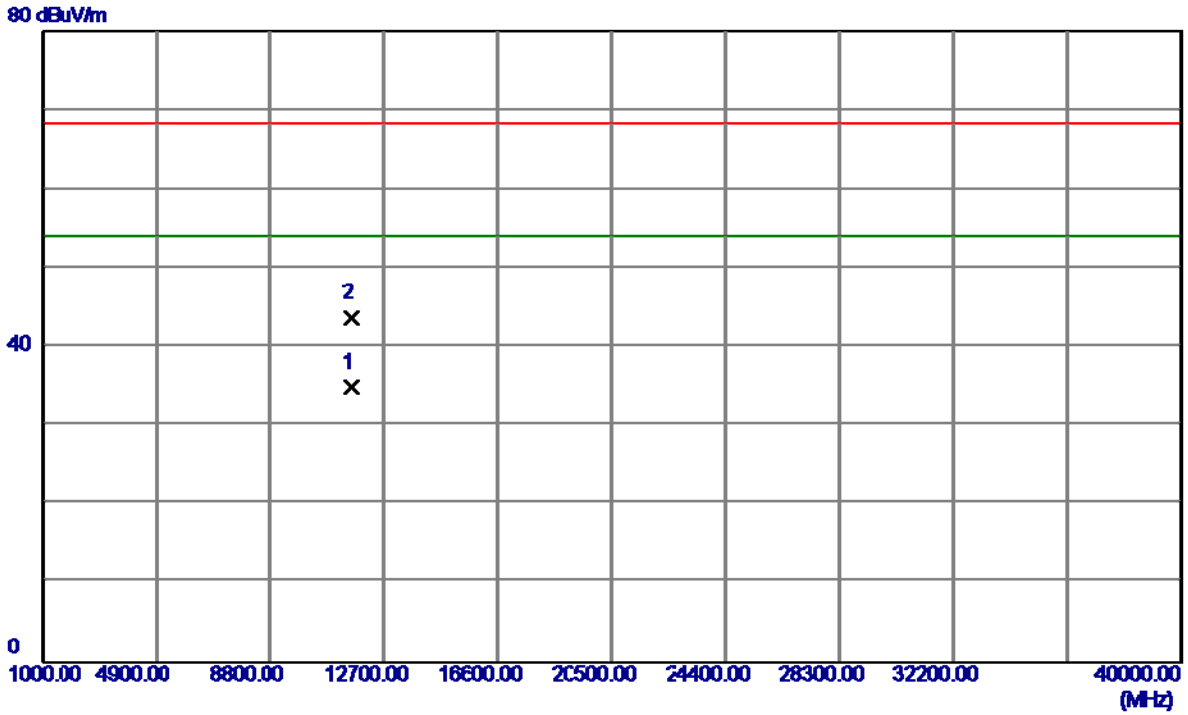
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5801.700	49.94	40.86	90.80	122.30	-31.50	peak	
2		5802.500	40.48	40.86	81.34	122.30	-40.96	AVG	
3		5850.000	9.81	40.89	50.70	122.30	-71.60	peak	
4		5850.000	4.11	40.89	45.00	122.30	-77.30	AVG	
5		5860.000	11.44	40.90	52.34	109.50	-57.16	peak	
6		5860.000	3.71	40.90	44.61	109.50	-64.89	AVG	

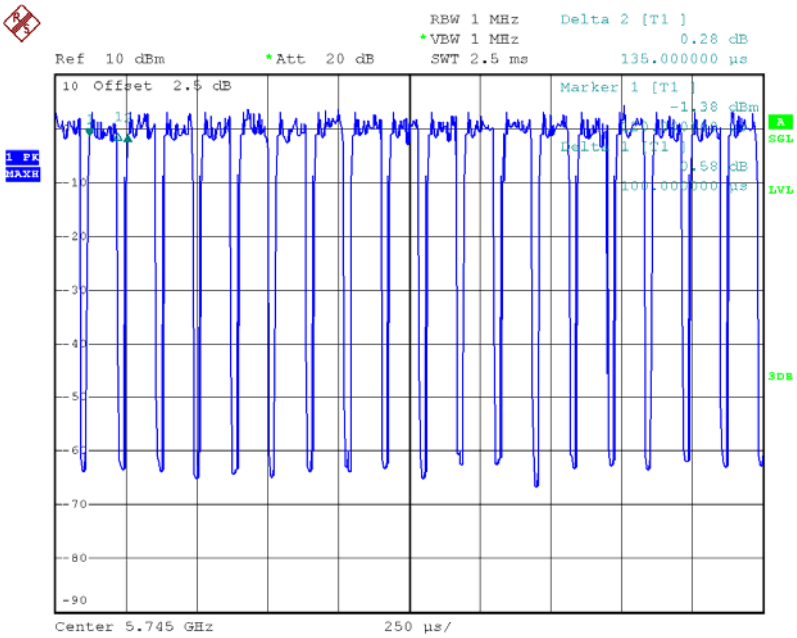
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11589.7500	19.36	15.48	34.84	54.00	-19.16	AVG	
2	11589.5000	28.22	15.48	43.70	68.30	-24.60	Peak	

TX A Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

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

T_{ON}: 0.10 msec

T_{Total}: 0.14 msec

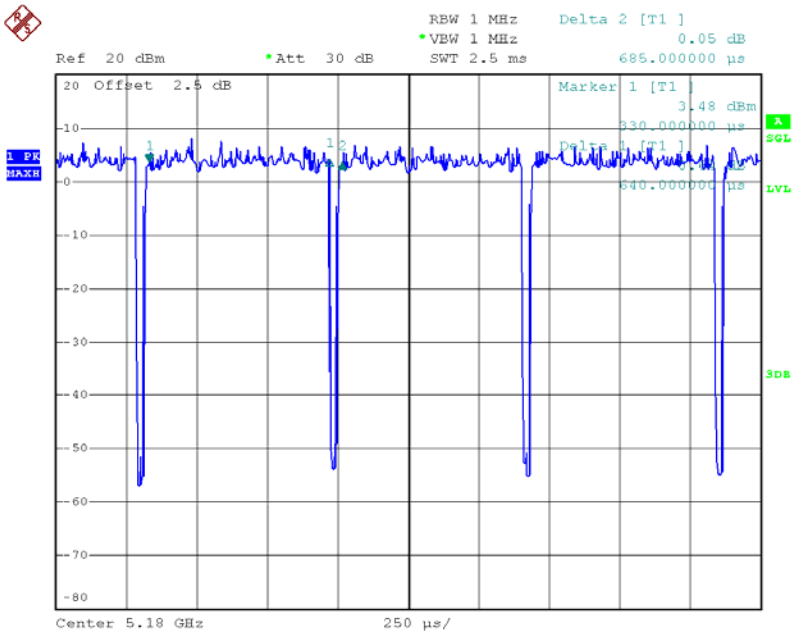
Duty cycle: 71.43%

Duty Factor = 10 log(1/Duty cycle)

Duty Factor = 1.46

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

TX N20 Mode_DUTY CYCLE



Date: 30.MAY.2016 16:36:12

Duty cycle: TX DUTYMHz

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

T_{ON}: 0.64 msec

T_{Total}: 0.68 msec

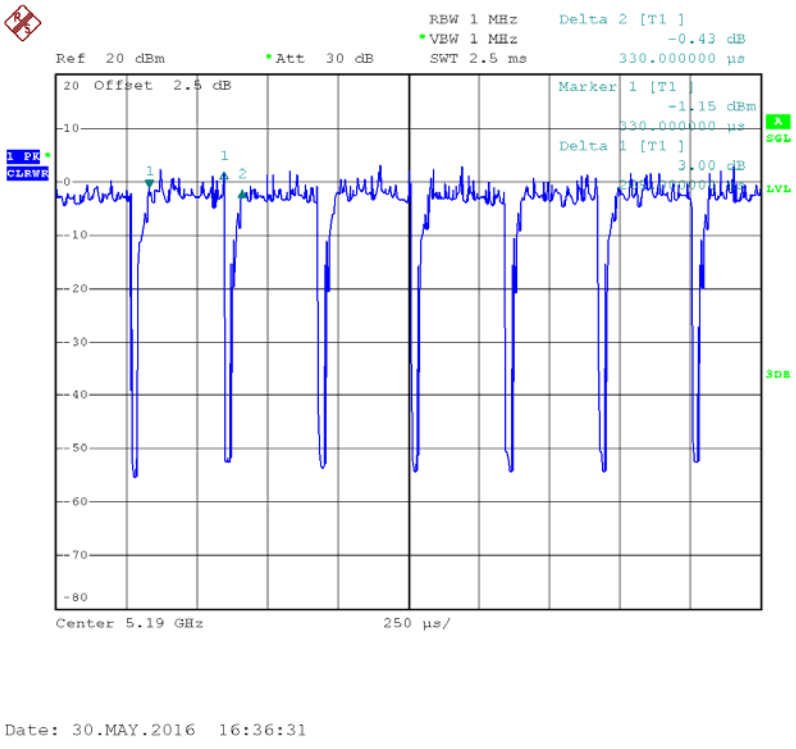
Duty cycle: 94.12%

Duty Factor = 10 log(1/Duty cycle)

Duty Factor = 0.26

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

TX N40 Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

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

T_{ON}: 0.26 msec

T_{Total}: 0.33 msec

Duty cycle: 78.79%

Duty Factor = 10 log(1/Duty cycle)

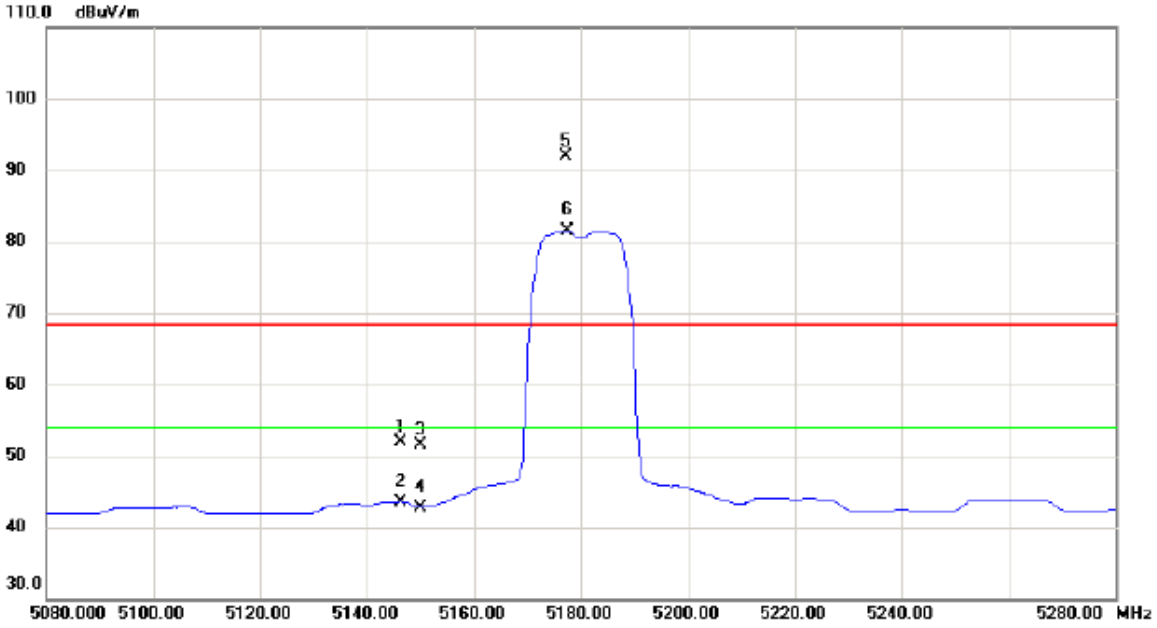
Duty Factor = 1.04

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

For ANT 2

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

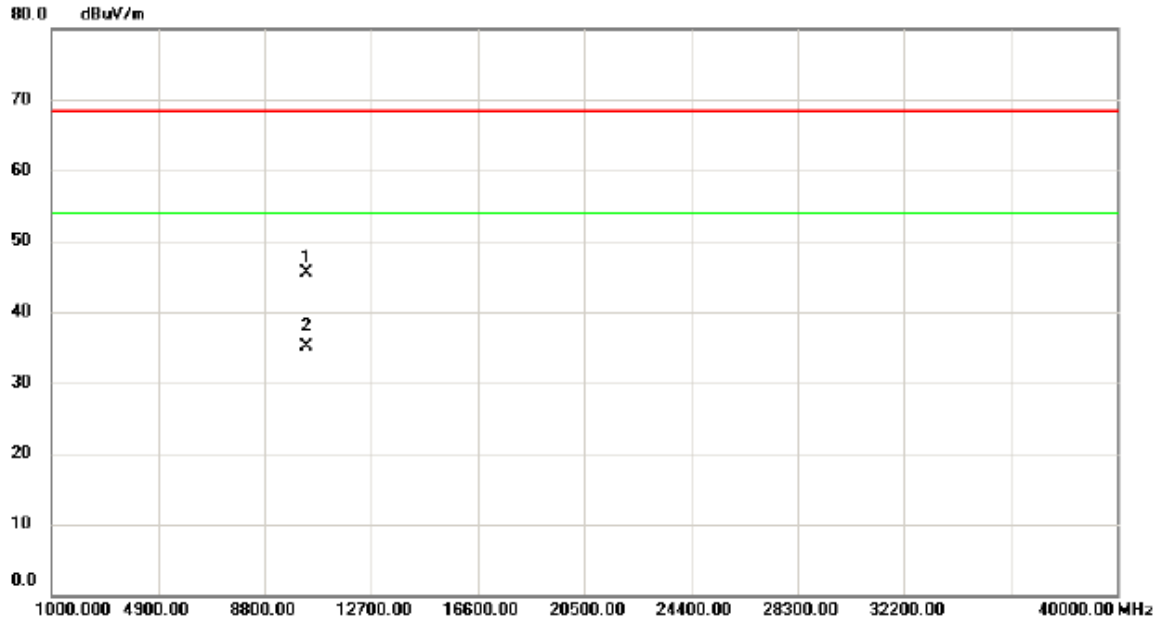
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5146.200	12.29	39.57	51.86	68.30	-16.44	peak	
2		5146.200	4.03	39.57	43.60	54.00	-10.40	AVG	
3		5150.000	11.92	39.58	51.50	68.30	-16.80	peak	
4		5150.000	3.22	39.58	42.80	54.00	-11.20	AVG	
5	X	5177.200	52.23	39.67	91.90	68.30	23.60	peak	No Limit
6	*	5177.400	41.87	39.67	81.54	54.00	27.54	AVG	No Limit

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

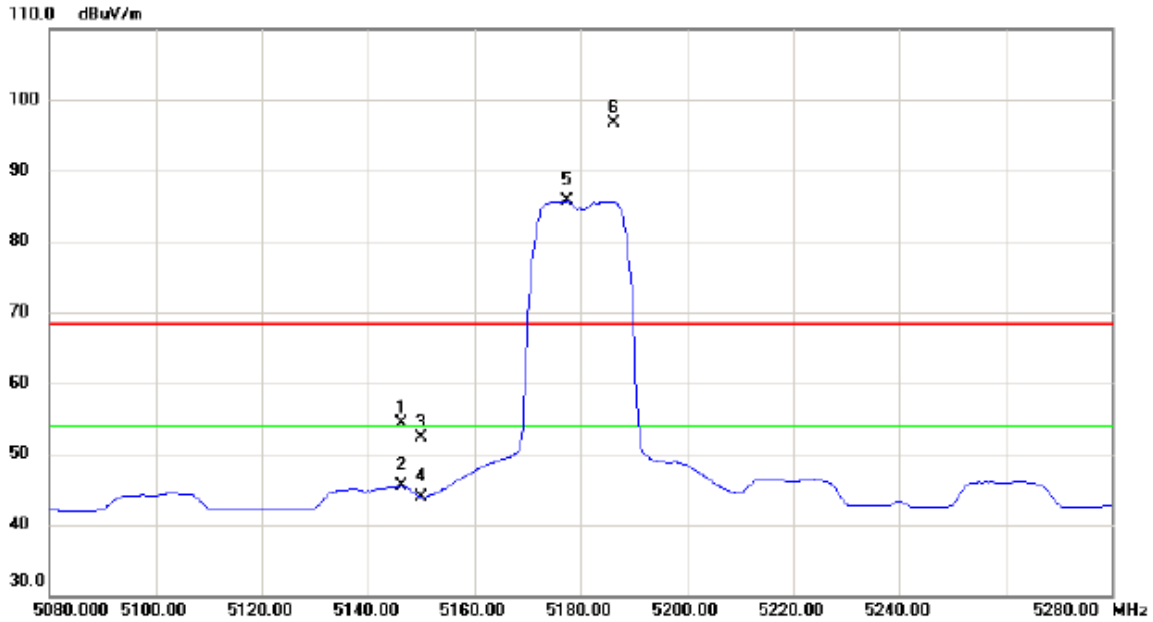
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10359.50	31.87	13.72	45.59	68.30	-22.71	peak	
2	*	10359.91	21.42	13.72	35.14	54.00	-18.86	AVG	

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

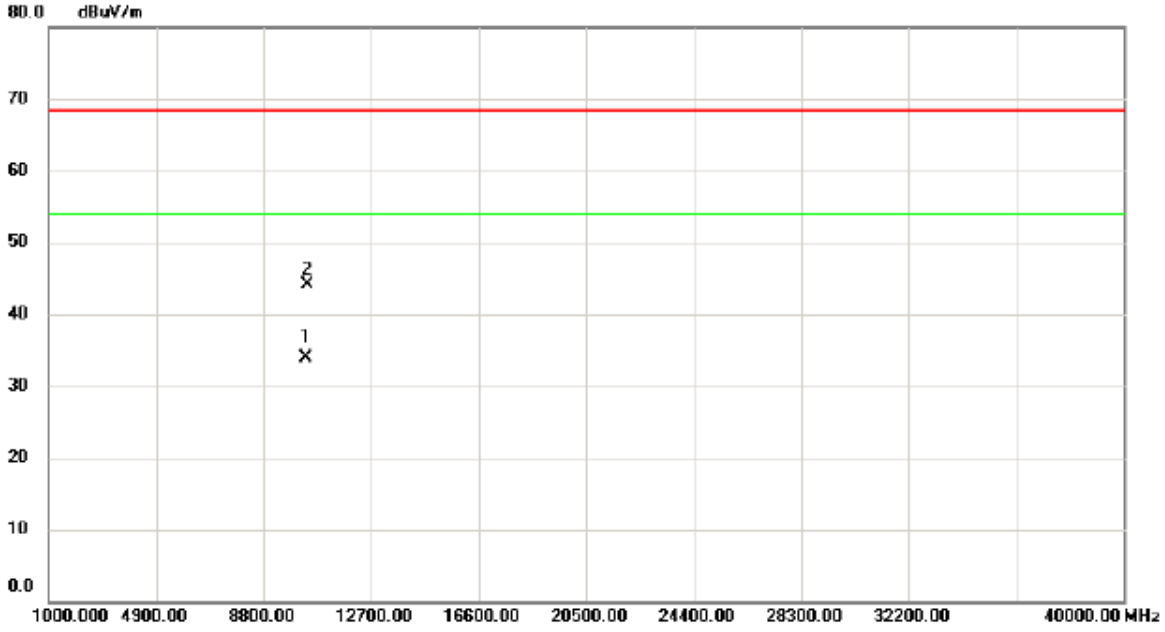
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5146.200	14.66	39.57	54.23	68.30	-14.07	peak	
2		5146.200	5.84	39.57	45.41	54.00	-8.59	AVG	
3		5150.000	12.73	39.58	52.31	68.30	-15.99	peak	
4		5150.000	4.34	39.58	43.92	54.00	-10.08	AVG	
5	*	5177.400	45.97	39.67	85.64	54.00	31.64	AVG	No Limit
6	X	5186.400	56.93	39.70	96.63	68.30	28.33	peak	No Limit

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

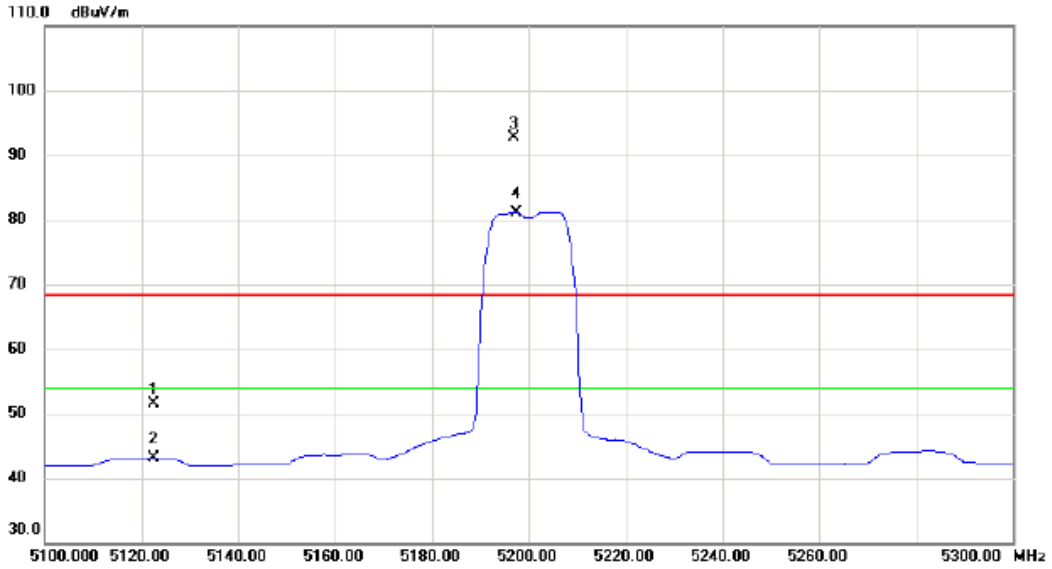
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10359.72 0	20.21	13.72	33.93	54.00	-20.07	AVG	
2		10360.11 0	30.35	13.72	44.07	68.30	-24.23	peak	

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

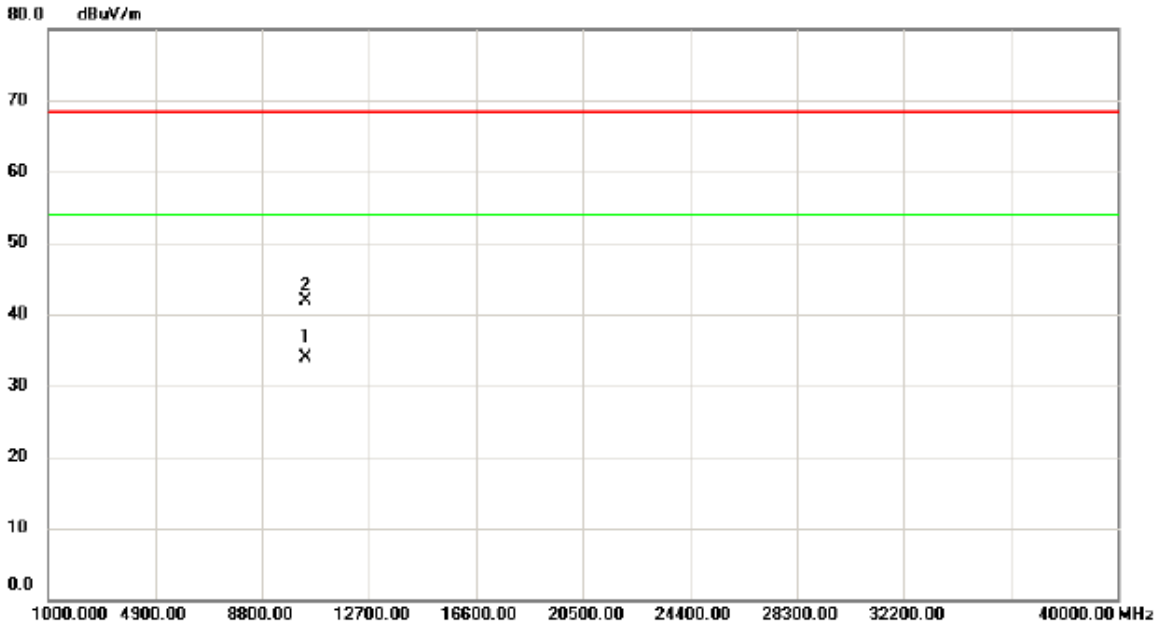
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5122.500	12.00	39.50	51.50	68.30	-16.80	peak	
2		5122.500	3.59	39.50	43.09	54.00	-10.91	AVG	
3	X	5196.900	53.06	39.72	92.78	68.30	24.48	peak	No Limit
4	*	5197.400	41.47	39.72	81.19	54.00	27.19	AVG	No Limit

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

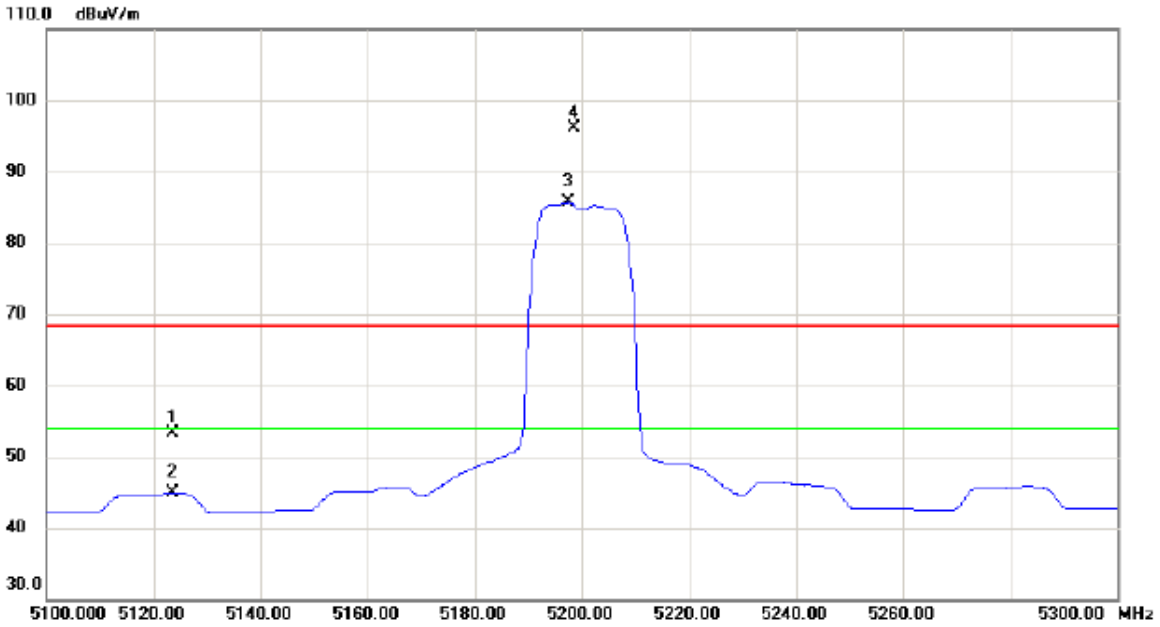
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.21	20.14	13.79	33.93	54.00	-20.07	AVG	
2		10400.30	28.17	13.79	41.96	68.30	-26.34	peak	

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

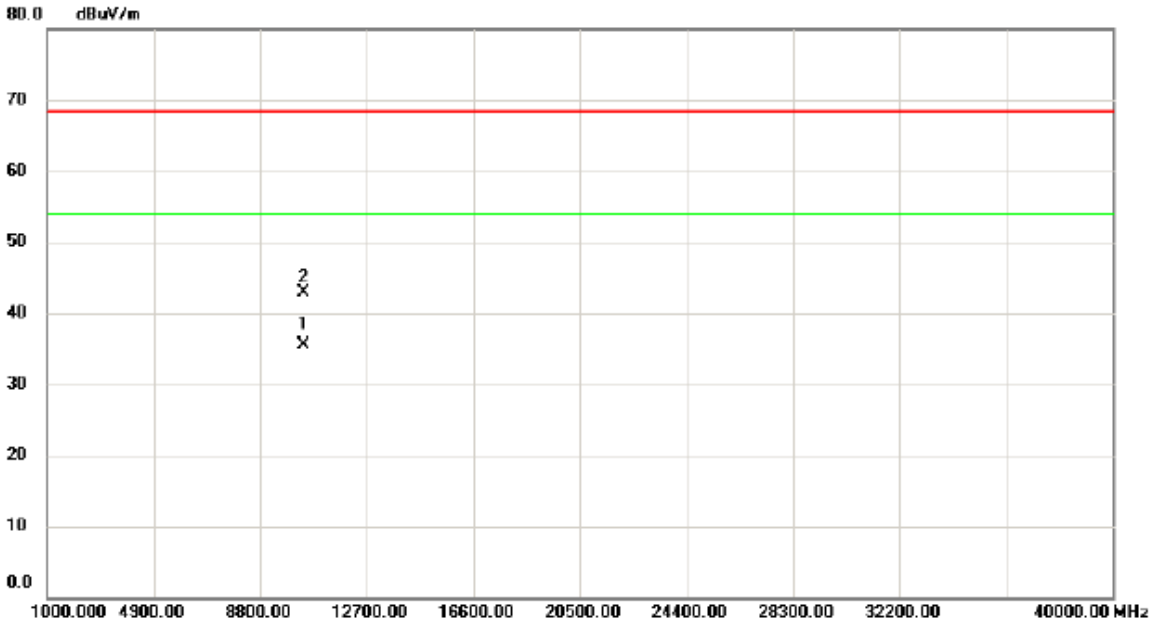
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5123.700	13.84	39.51	53.35	68.30	-14.95	peak	
2		5123.700	5.42	39.51	44.93	54.00	-9.07	AVG	
3	*	5197.500	45.92	39.72	85.64	54.00	31.64	AVG	No Limit
4	X	5198.600	56.33	39.73	96.06	68.30	27.76	peak	No Limit

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

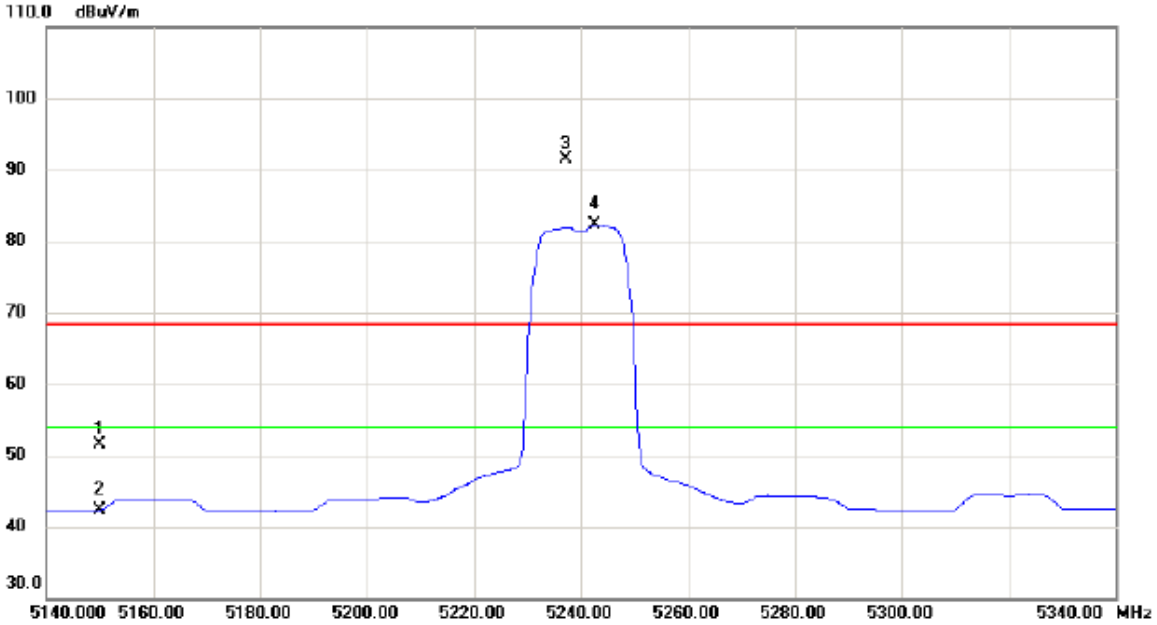
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10399.75	21.74	13.79	35.53	54.00	-18.47	AVG	
2		10400.32	29.16	13.79	42.95	68.30	-25.35	peak	

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

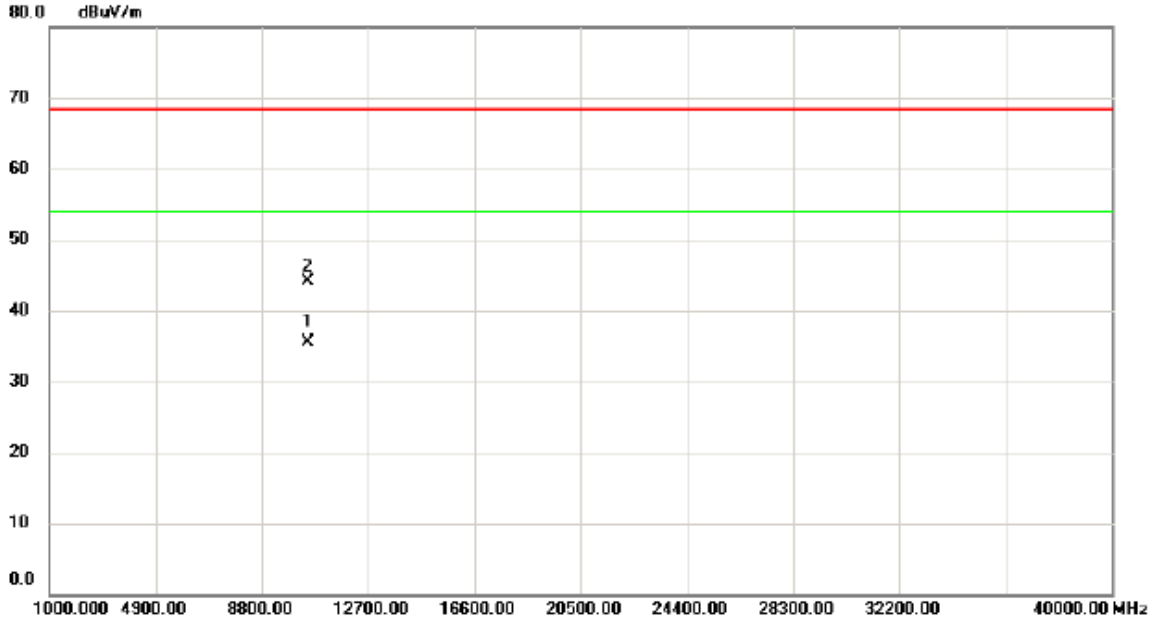
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	11.91	39.58	51.49	68.30	-16.81	peak	
2		5150.000	2.68	39.58	42.26	54.00	-11.74	AVG	
3	X	5237.100	51.64	39.85	91.49	68.30	23.19	peak	No Limit
4	*	5242.500	42.47	39.86	82.33	54.00	28.33	AVG	No Limit

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

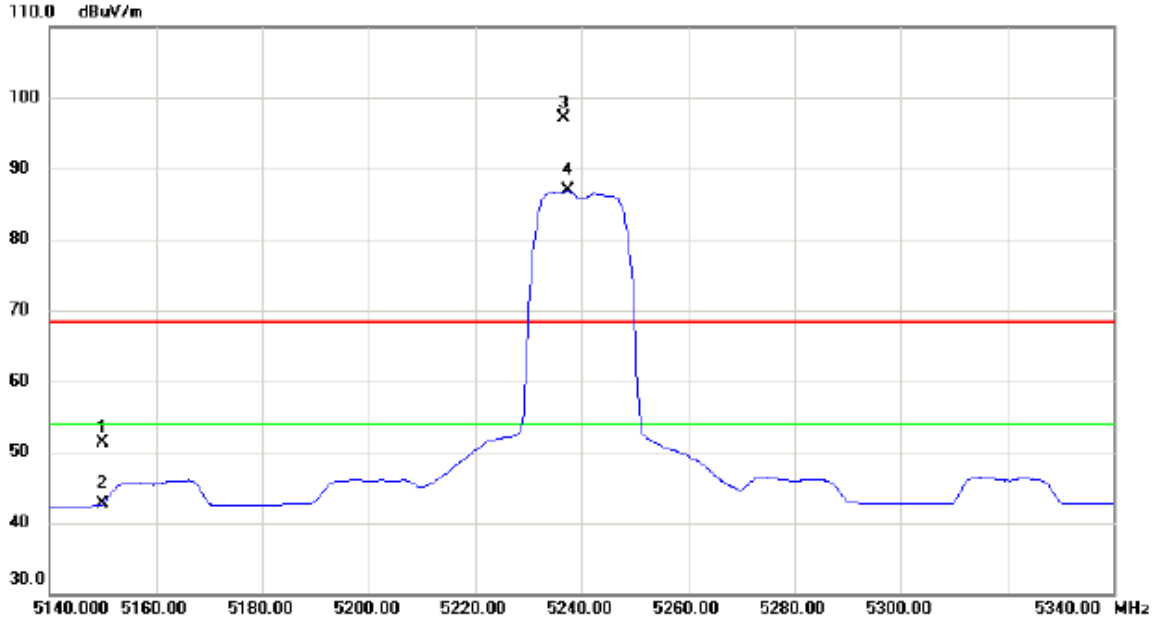
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10479.60	21.47	13.95	35.42	54.00	-18.58	AVG	
2		10480.23	30.23	13.95	44.18	68.30	-24.12	peak	

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

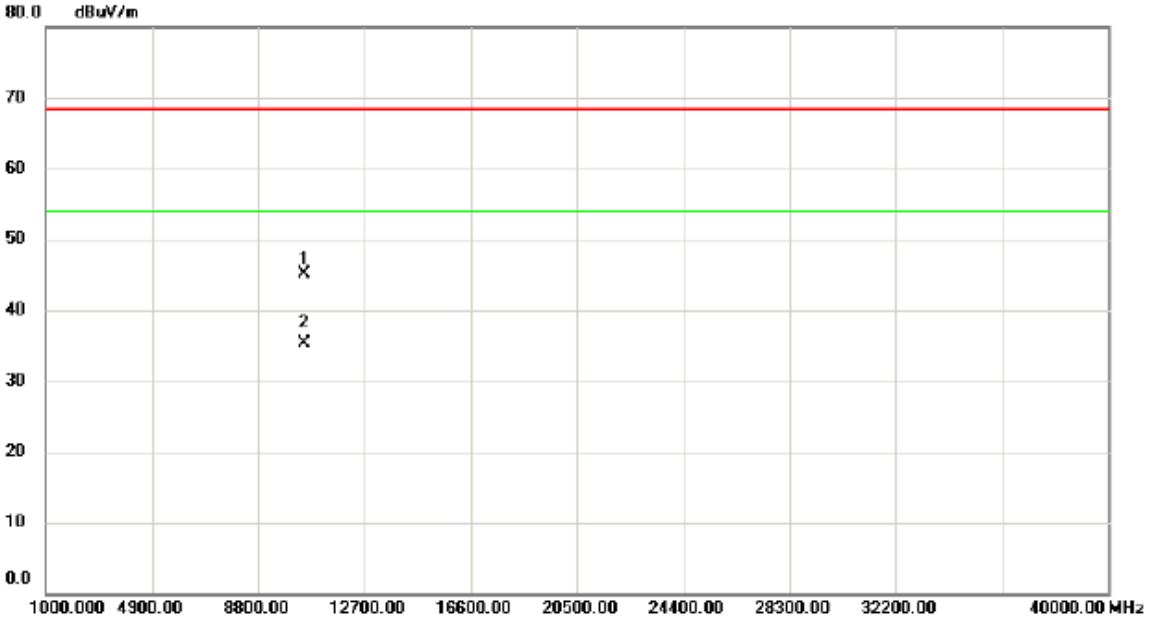
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	11.66	39.58	51.24	68.30	-17.06	peak	
2		5150.000	3.14	39.58	42.72	54.00	-11.28	AVG	
3	X	5236.600	57.27	39.85	97.12	68.30	28.82	peak	No Limit
4	*	5237.400	47.03	39.85	86.88	54.00	32.88	AVG	No Limit

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

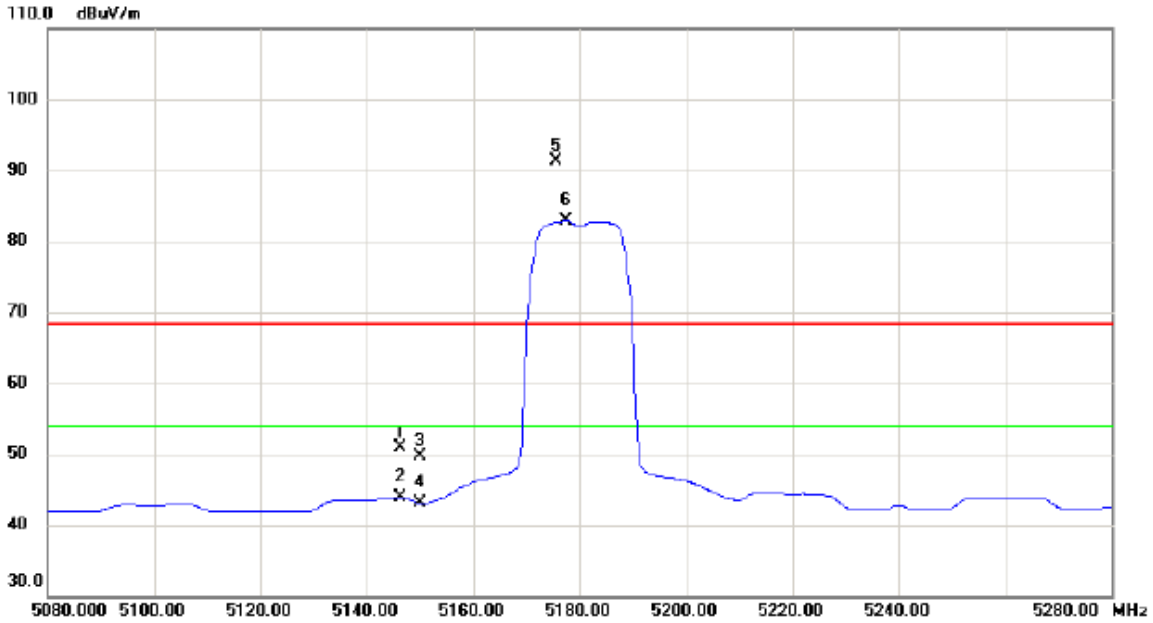
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10479.96	31.14	13.95	45.09	68.30	-23.21	peak	
2	*	10480.23	21.31	13.95	35.26	54.00	-18.74	AVG	

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

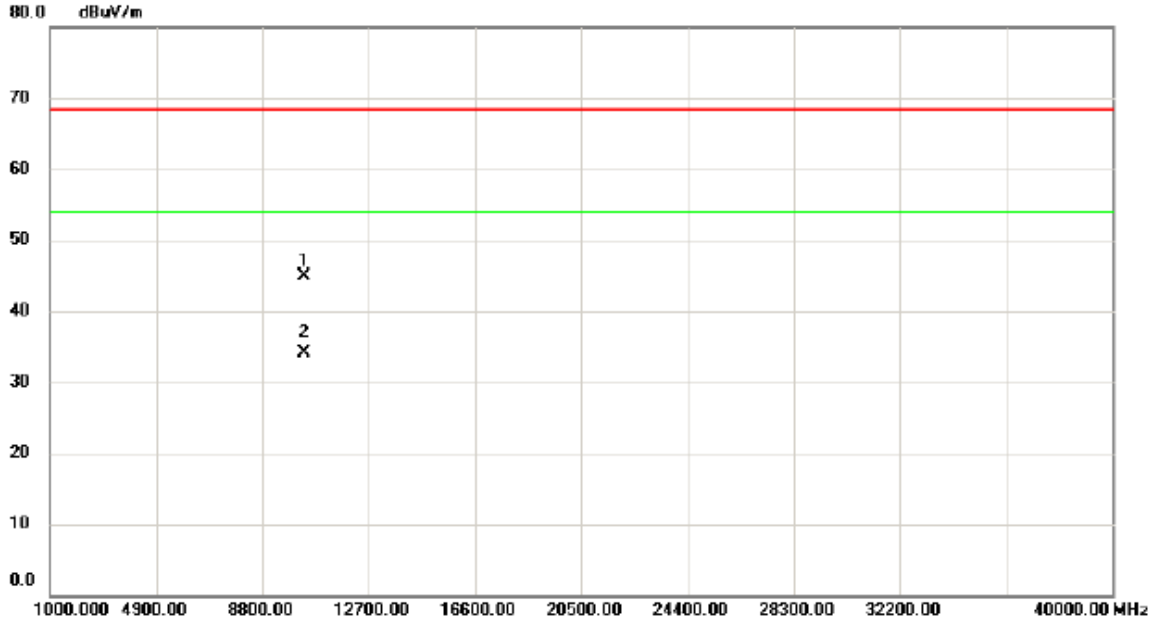
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5146.300	11.42	39.57	50.99	68.30	-17.31	peak	
2		5146.300	4.37	39.57	43.94	54.00	-10.06	AVG	
3		5150.000	10.18	39.58	49.76	68.30	-18.54	peak	
4		5150.000	3.44	39.58	43.02	54.00	-10.98	AVG	
5	X	5175.600	51.71	39.66	91.37	68.30	23.07	peak	No Limit
6	*	5177.500	43.20	39.67	82.87	54.00	28.87	AVG	No Limit

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

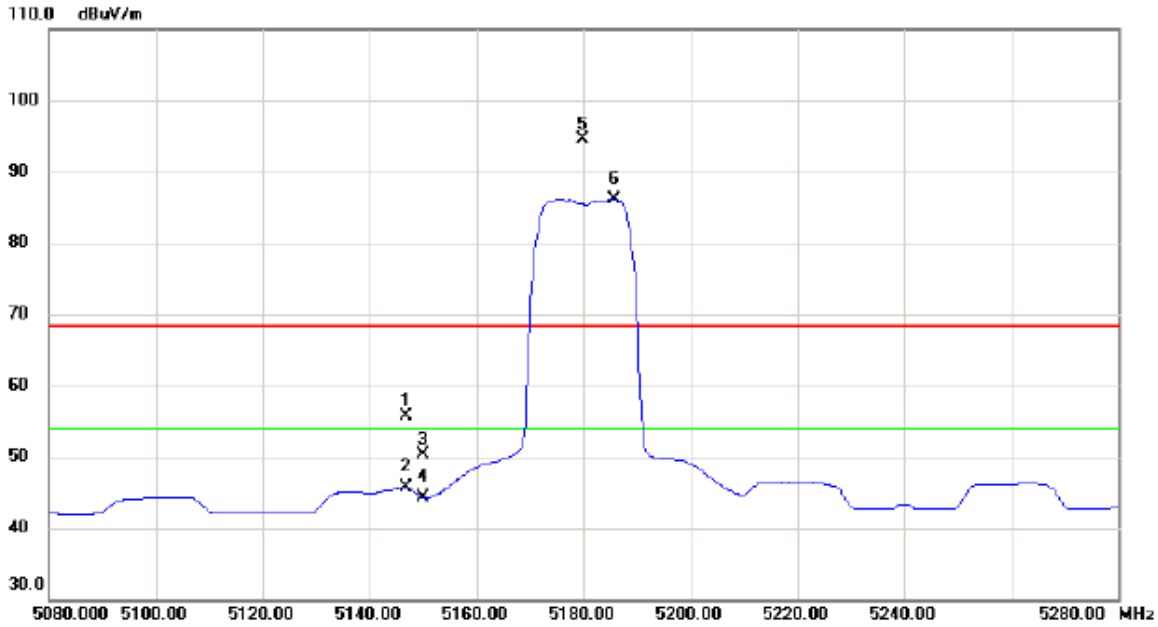
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10359.65	31.21	13.72	44.93	68.30	-23.37	peak	
2	*	10359.65	20.36	13.72	34.08	54.00	-19.92	AVG	

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

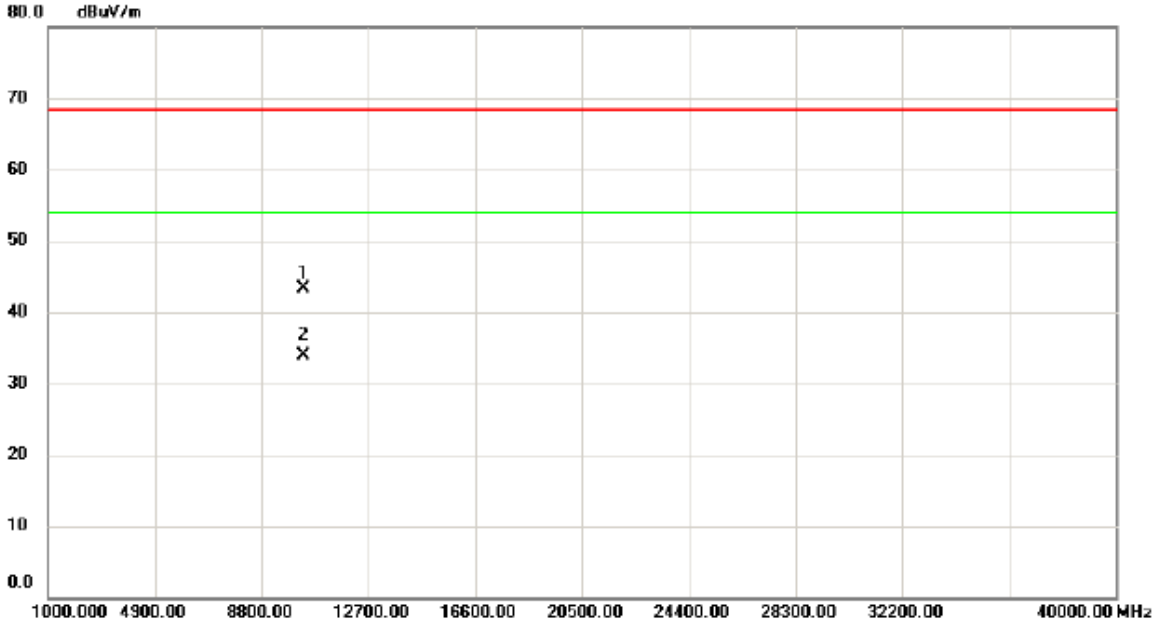
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5146.700	16.09	39.57	55.66	68.30	-12.64	peak	
2		5146.700	6.18	39.57	45.75	54.00	-8.25	AVG	
3		5150.000	10.78	39.58	50.36	68.30	-17.94	peak	
4		5150.000	4.64	39.58	44.22	54.00	-9.78	AVG	
5	X	5179.800	54.76	39.67	94.43	68.30	26.13	peak	No Limit
6	*	5185.600	46.37	39.70	86.07	54.00	32.07	AVG	No Limit

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

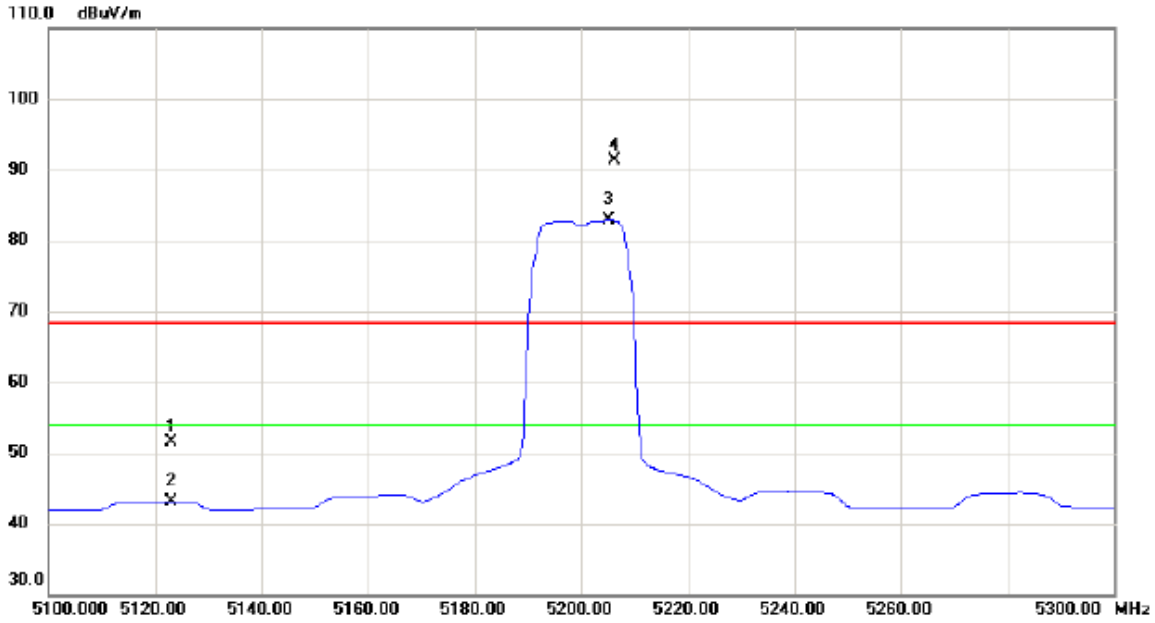
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10359.27	29.57	13.72	43.29	68.30	-25.01	peak	
2	*	10359.61	20.21	13.72	33.93	54.00	-20.07	AVG	

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

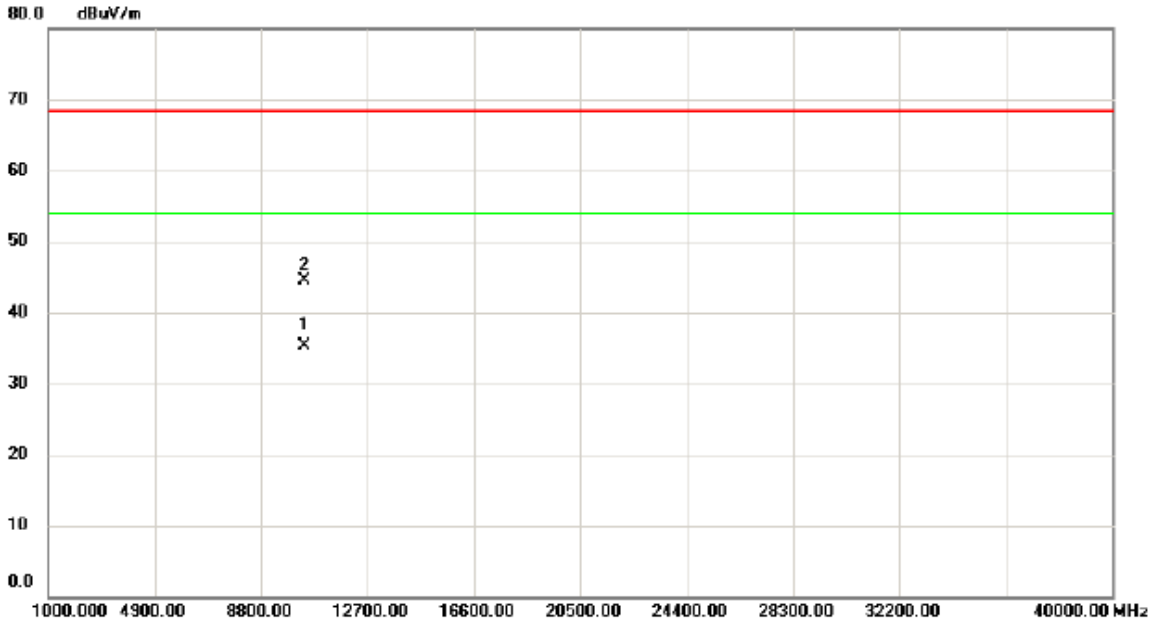
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5123.000	11.93	39.51	51.44	68.30	-16.86	peak	
2		5123.000	3.66	39.51	43.17	54.00	-10.83	AVG	
3	*	5205.100	43.08	39.75	82.83	54.00	28.83	AVG	No Limit
4	X	5206.300	51.50	39.76	91.26	68.30	22.96	peak	No Limit

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

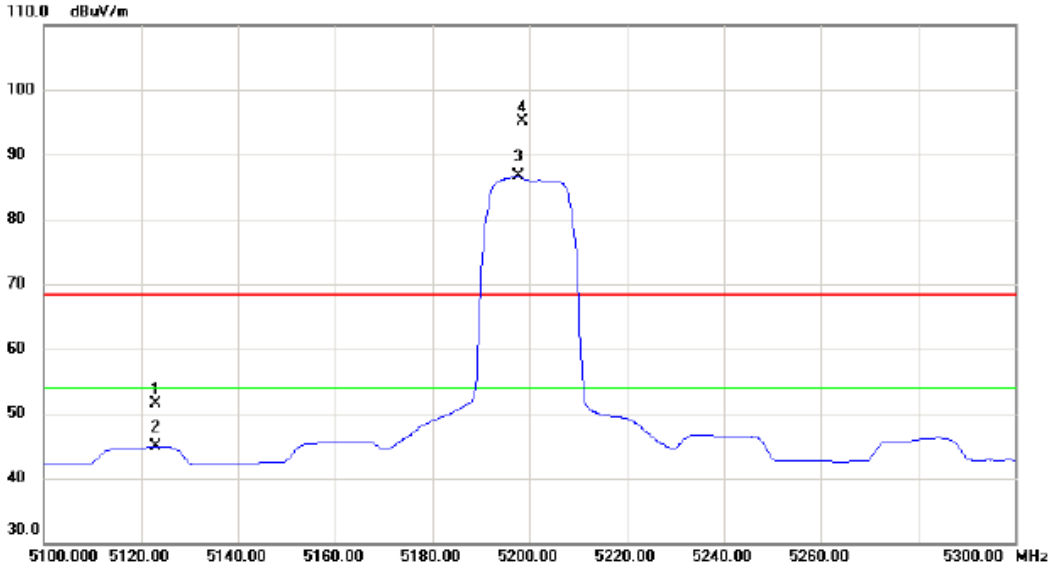
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10399.34	21.46	13.79	35.25	54.00	-18.75	AVG	
2		10400.32	30.63	13.79	44.42	68.30	-23.88	peak	

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

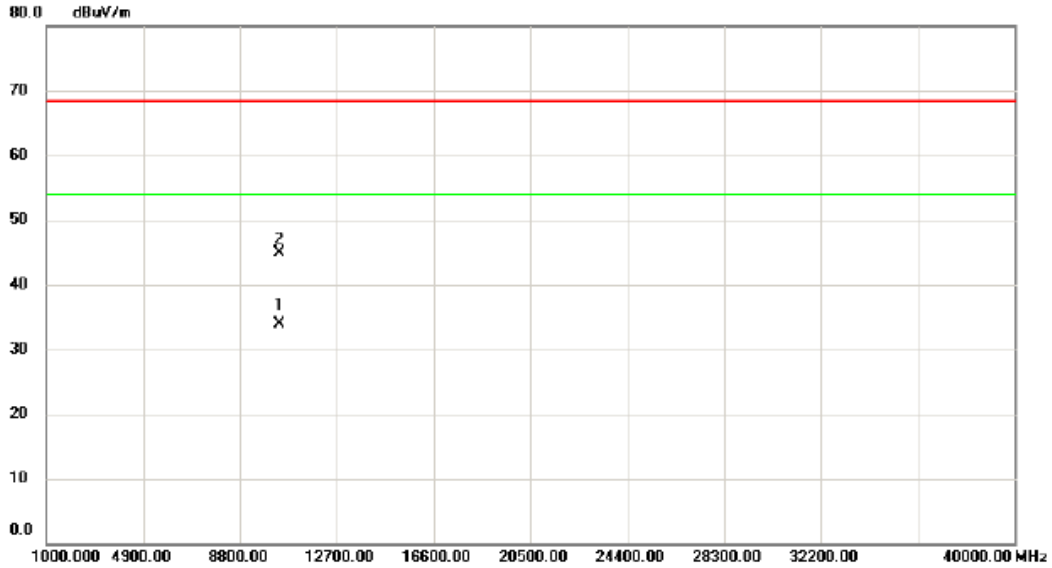
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5123.000	12.01	39.51	51.52	68.30	-16.78	peak	
2		5123.000	5.48	39.51	44.99	54.00	-9.01	AVG	
3	*	5197.600	46.90	39.72	86.62	54.00	32.62	AVG	No Limit
4	X	5198.500	55.33	39.73	95.06	68.30	26.76	peak	No Limit

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

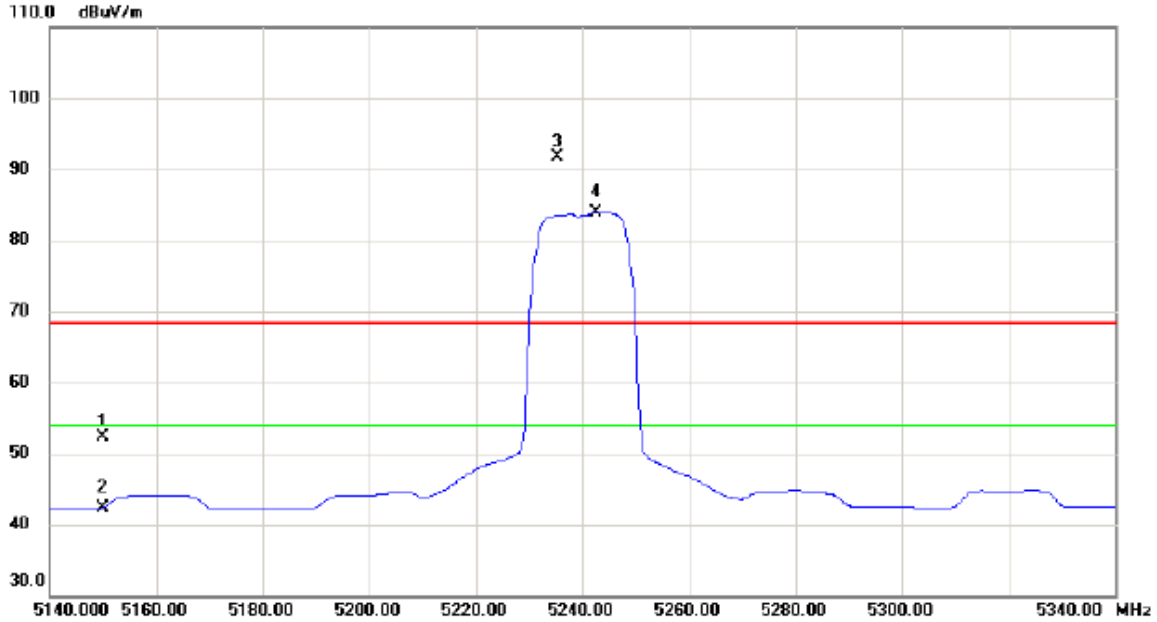
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10400.240	20.16	13.79	33.95	54.00	-20.05	AVG	
2		10400.580	31.05	13.79	44.84	68.30	-23.46	peak	

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

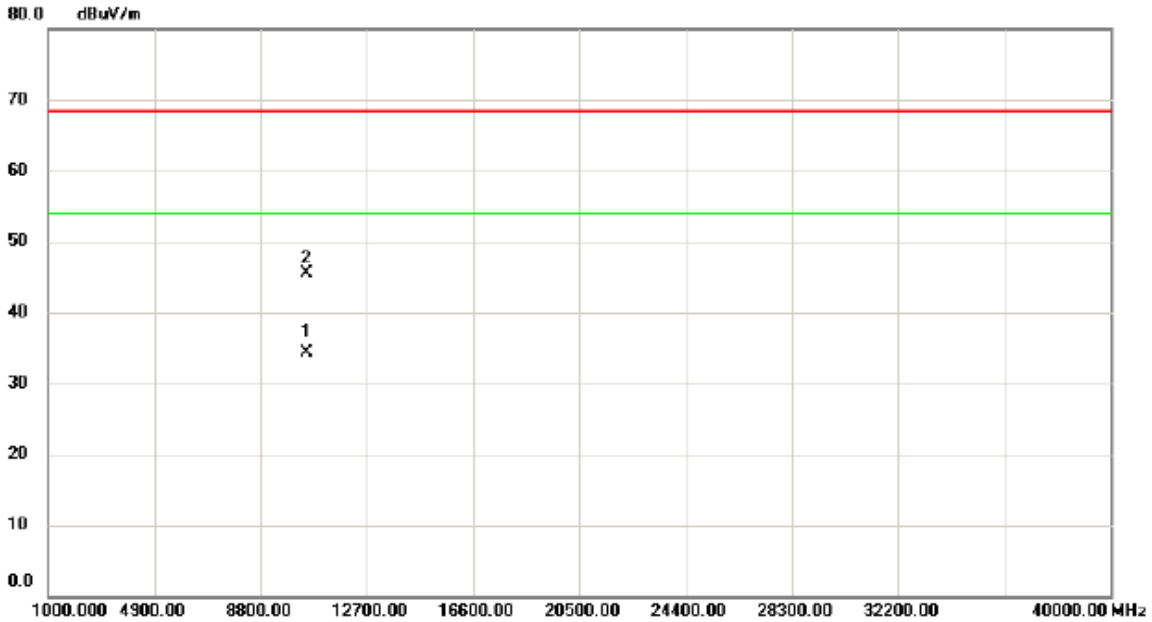
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	12.73	39.58	52.31	68.30	-15.99	peak	
2		5150.000	2.78	39.58	42.36	54.00	-11.64	AVG	
3	X	5235.400	51.84	39.84	91.68	68.30	23.38	peak	No Limit
4	*	5242.600	44.13	39.86	83.99	54.00	29.99	AVG	No Limit

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

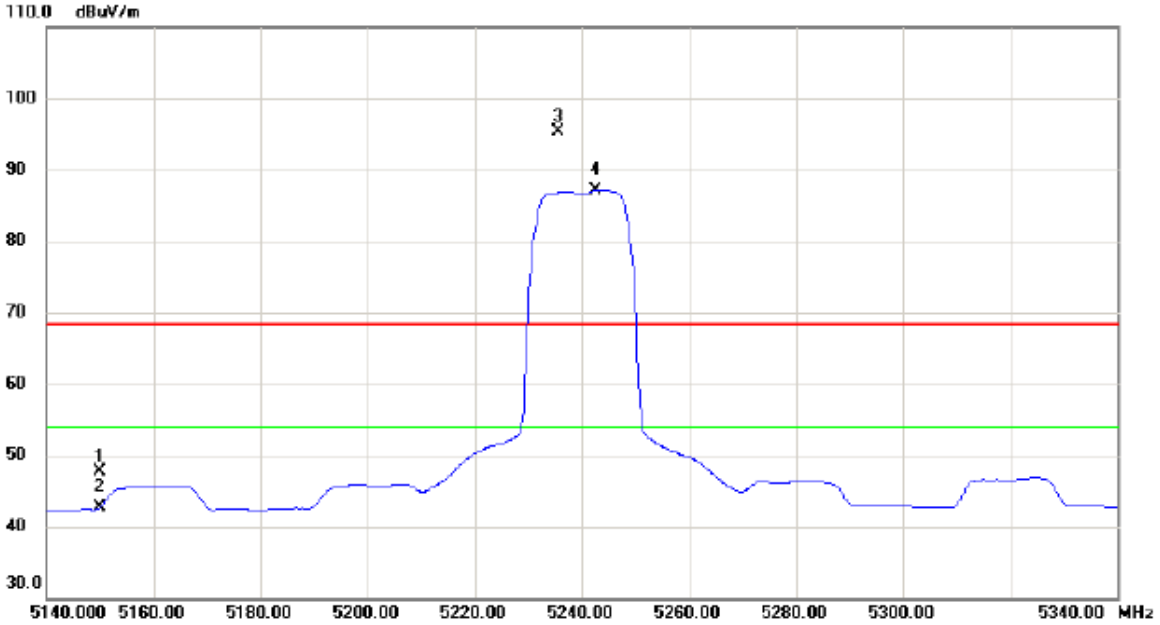
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10480.11	20.36	13.95	34.31	54.00	-19.69	AVG	
2		10480.28	31.58	13.95	45.53	68.30	-22.77	peak	

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

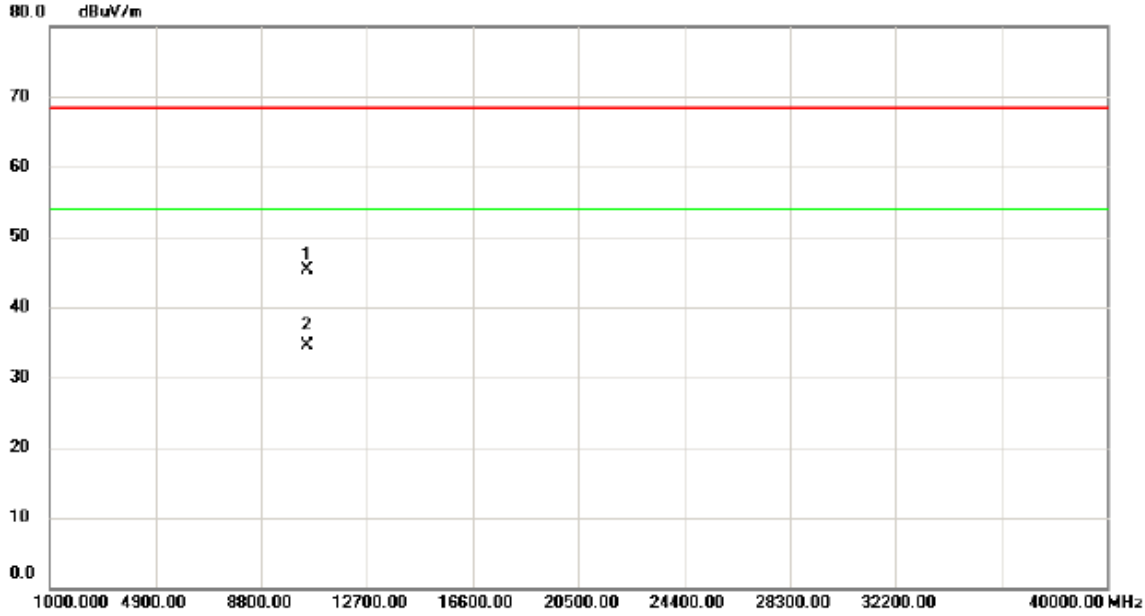
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	8.14	39.58	47.72	68.30	-20.58	peak	
2		5150.000	3.20	39.58	42.78	54.00	-11.22	AVG	
3	X	5235.700	55.48	39.85	95.33	68.30	27.03	peak	No Limit
4	*	5242.600	47.22	39.86	87.08	54.00	33.08	AVG	No Limit

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

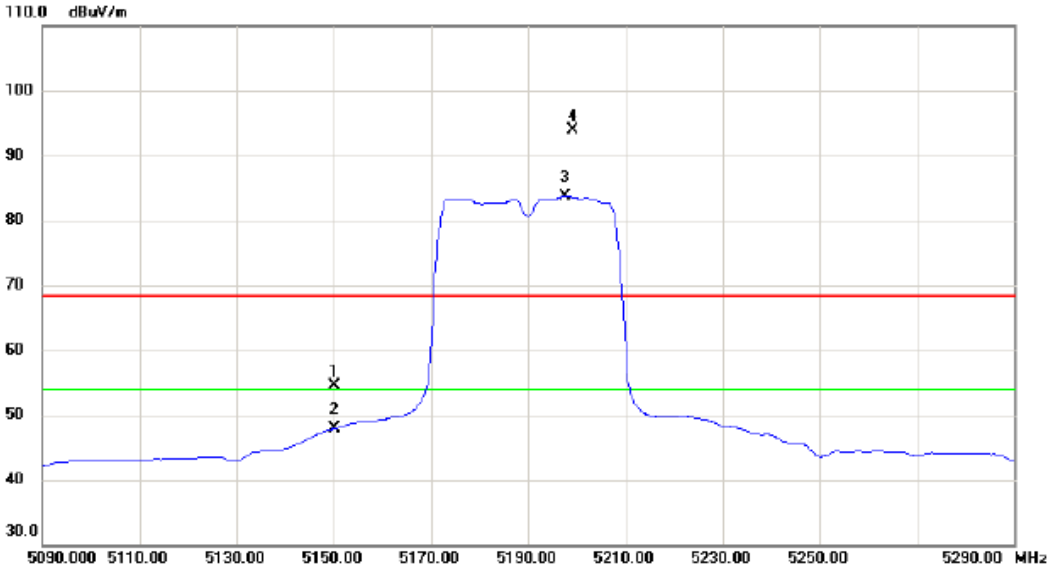
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10480.21	31.29	13.95	45.24	68.30	-23.06	peak	
2	*	10480.32	20.48	13.95	34.43	54.00	-19.57	AVG	

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

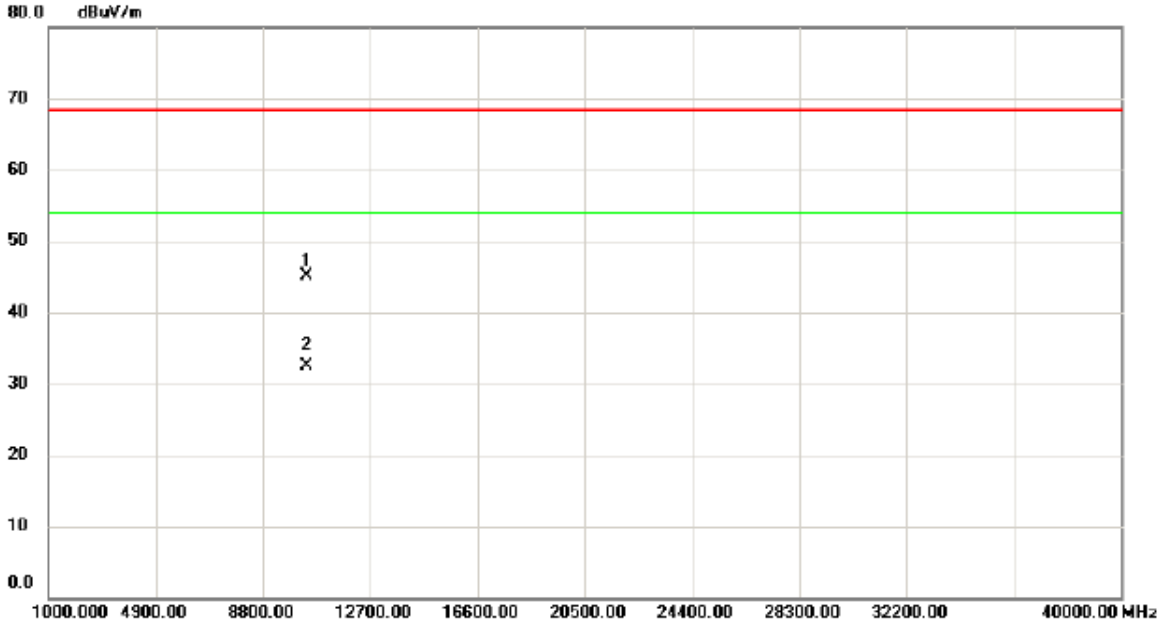
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	14.93	39.58	54.51	68.30	-13.79	peak	
2		5150.000	8.30	39.58	47.88	54.00	-6.12	AVG	
3	*	5197.700	44.06	39.72	83.78	54.00	29.78	AVG	No Limit
4	X	5199.300	54.16	39.73	93.89	68.30	25.59	peak	No Limit

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

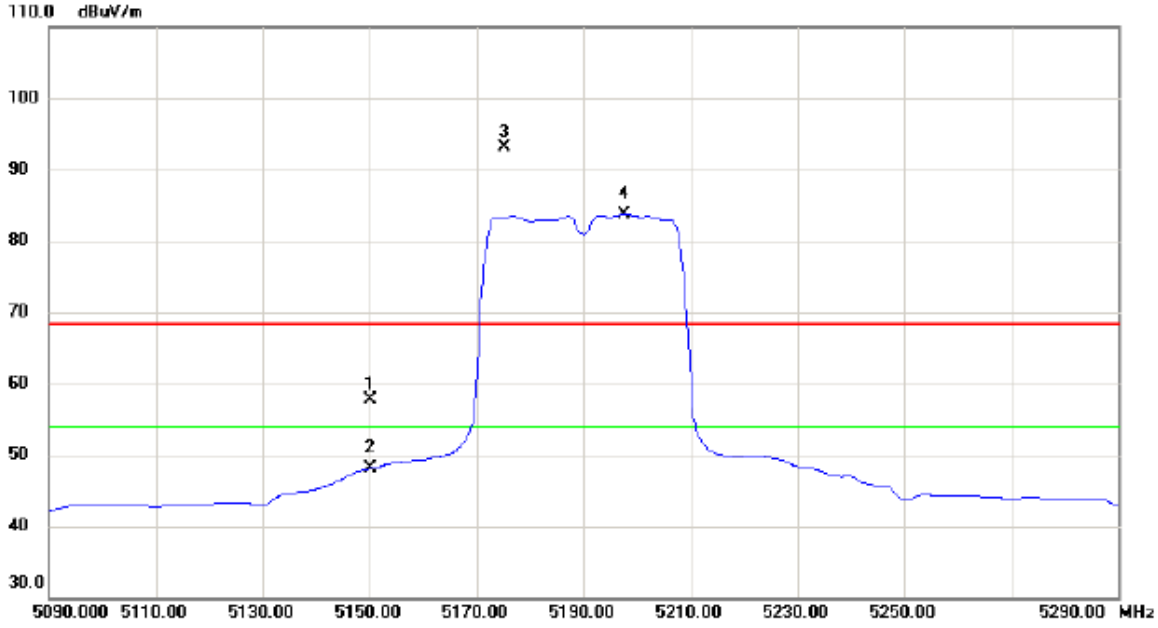
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10381.24	31.44	13.76	45.20	68.30	-23.10	peak	
2	*	10381.35	18.76	13.76	32.52	54.00	-21.48	AVG	

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

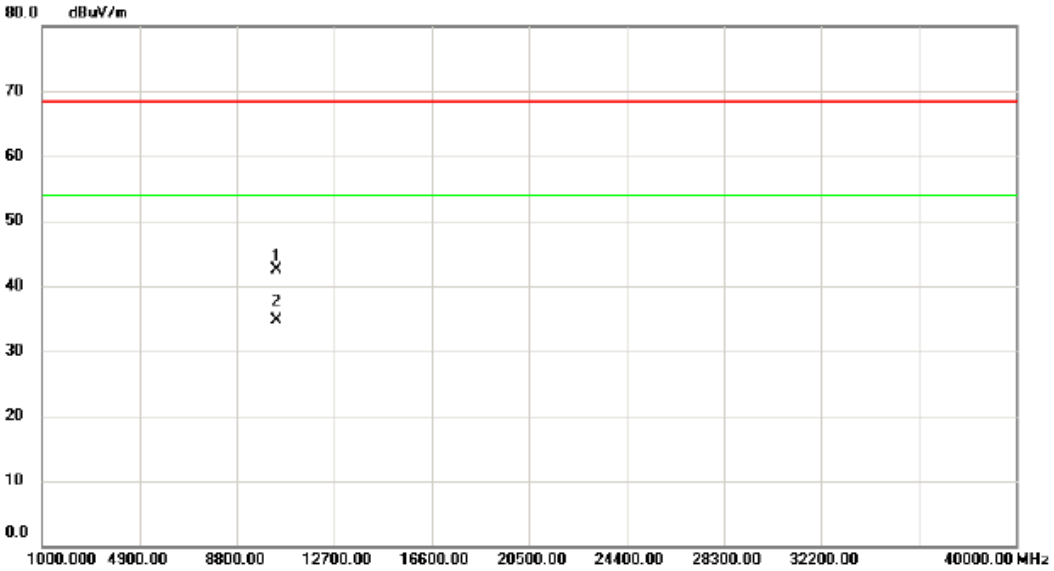
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	18.09	39.58	57.67	68.30	-10.63	peak	
2		5150.000	8.47	39.58	48.05	54.00	-5.95	AVG	
3	X	5175.200	53.45	39.66	93.11	68.30	24.81	peak	No Limit
4	*	5197.700	44.08	39.72	83.80	54.00	29.80	AVG	No Limit

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

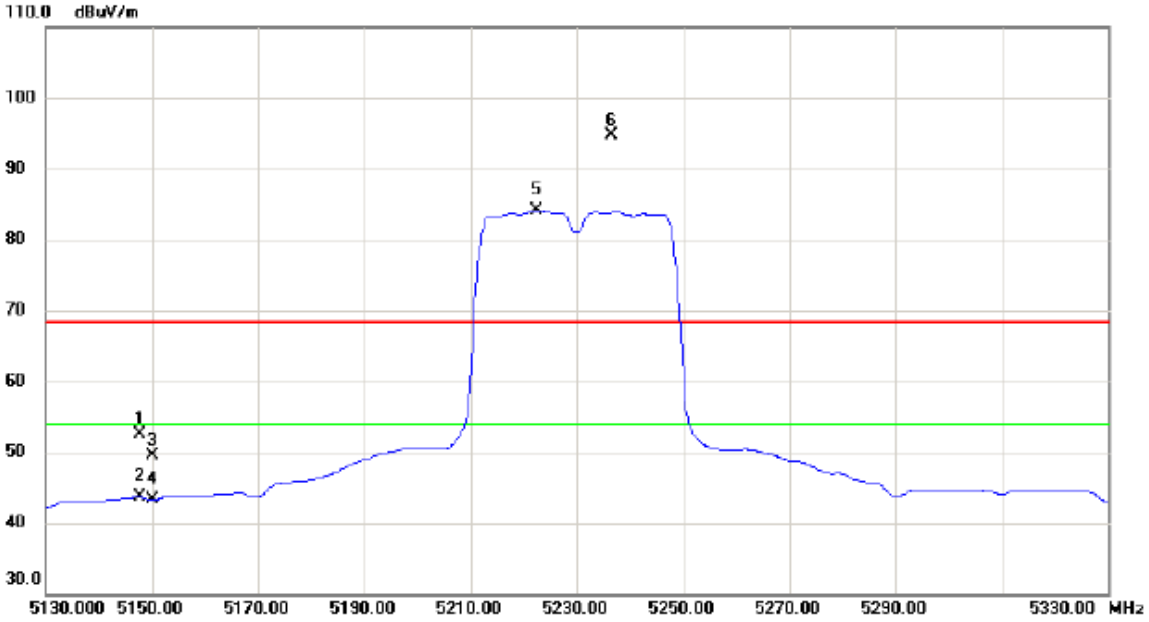
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10380.830	28.76	13.76	42.52	68.30	-25.78	peak	
2	*	10381.900	21.02	13.76	34.78	54.00	-19.22	AVG	

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

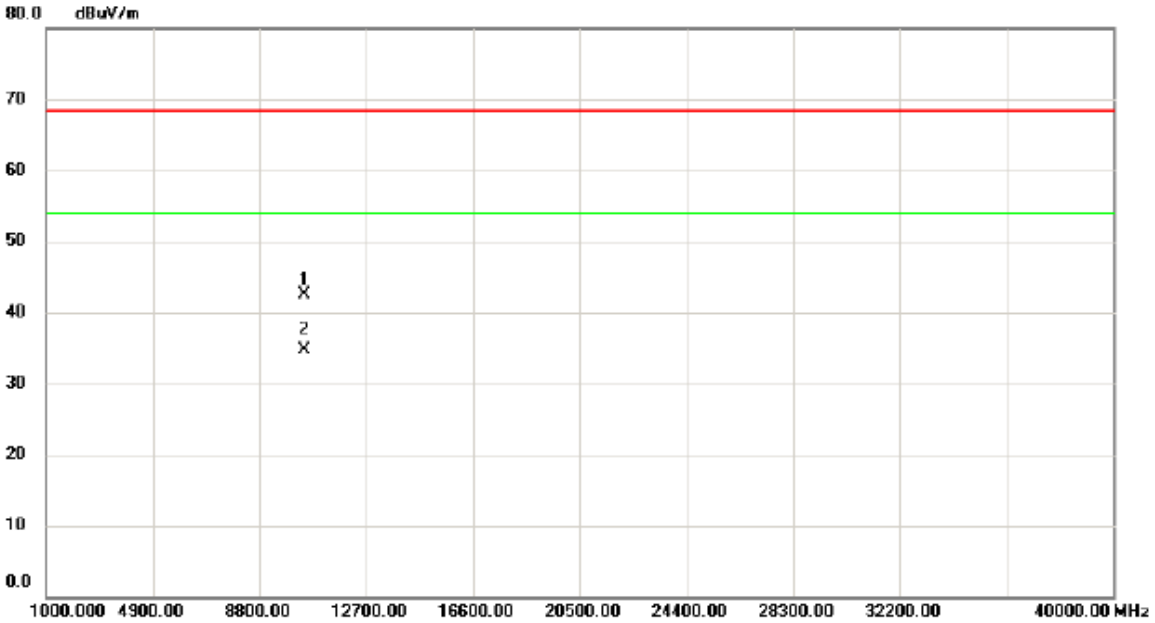
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5147.600	13.00	39.57	52.57	68.30	-15.73	peak	
2		5147.600	4.09	39.57	43.66	54.00	-10.34	AVG	
3		5150.000	9.91	39.58	49.49	68.30	-18.81	peak	
4		5150.000	3.72	39.58	43.30	54.00	-10.70	AVG	
5	*	5222.300	44.39	39.80	84.19	54.00	30.19	AVG	No Limit
6	X	5236.500	54.85	39.85	94.70	68.30	26.40	peak	No Limit

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

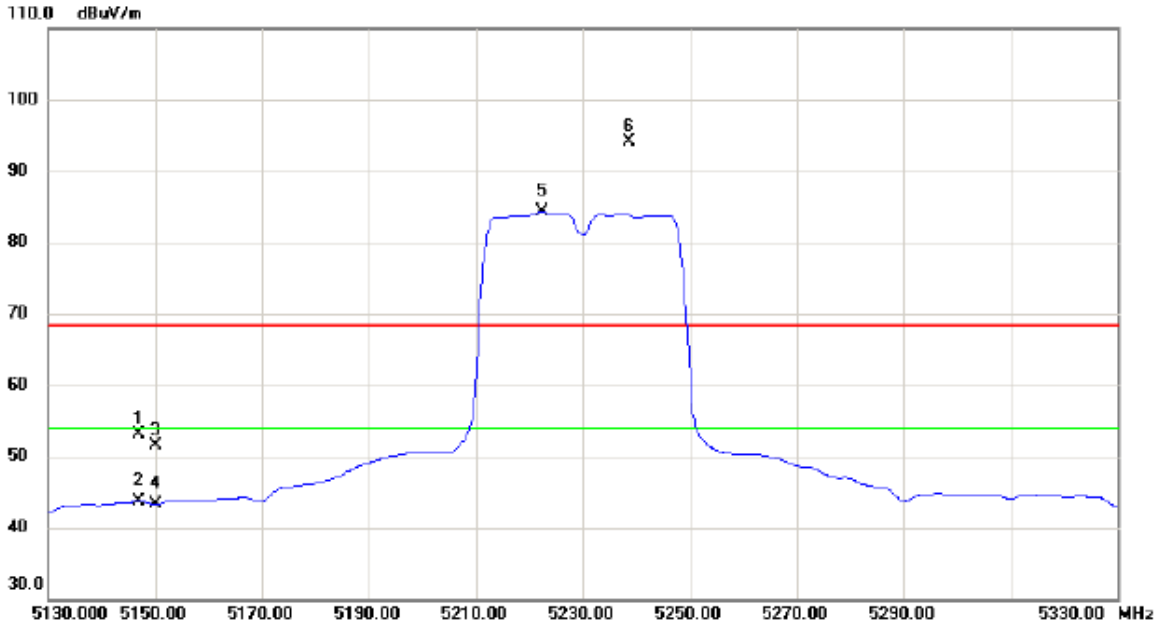
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10460.20 0	28.58	13.92	42.50	68.30	-25.80	peak	
2	*	10460.88 0	20.85	13.92	34.77	54.00	-19.23	AVG	

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

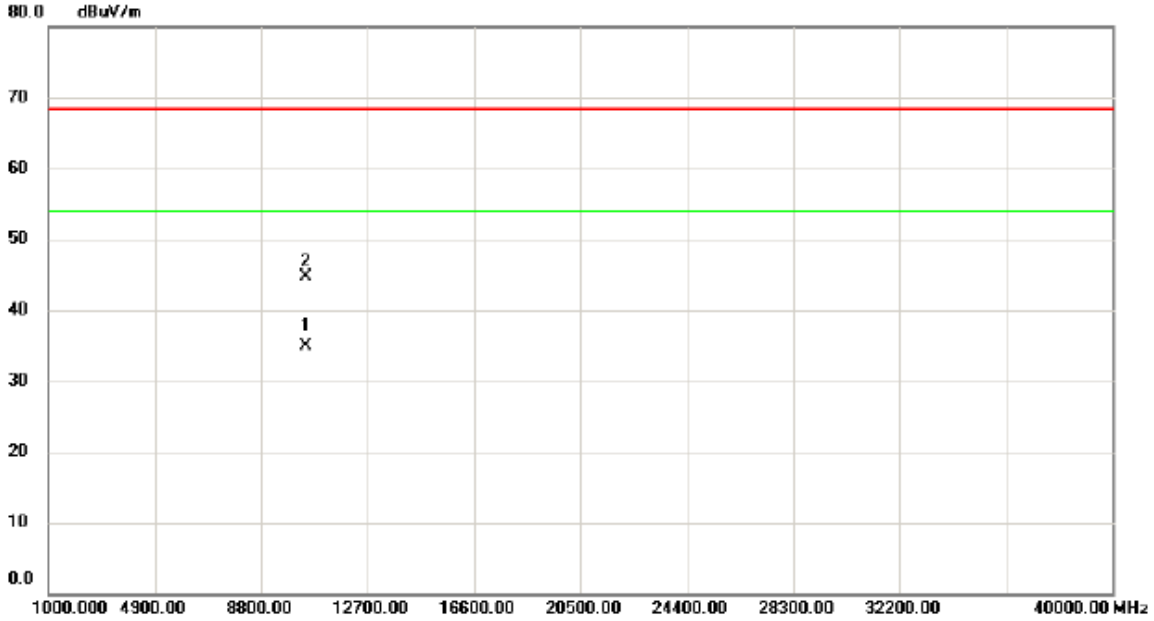
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5147.000	13.51	39.57	53.08	68.30	-15.22	peak	
2		5147.000	4.13	39.57	43.70	54.00	-10.30	AVG	
3		5150.000	11.89	39.58	51.47	68.30	-16.83	peak	
4		5150.000	3.75	39.58	43.33	54.00	-10.67	AVG	
5	*	5222.300	44.49	39.80	84.29	54.00	30.29	AVG	No Limit
6	X	5238.600	54.19	39.85	94.04	68.30	25.74	peak	No Limit

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

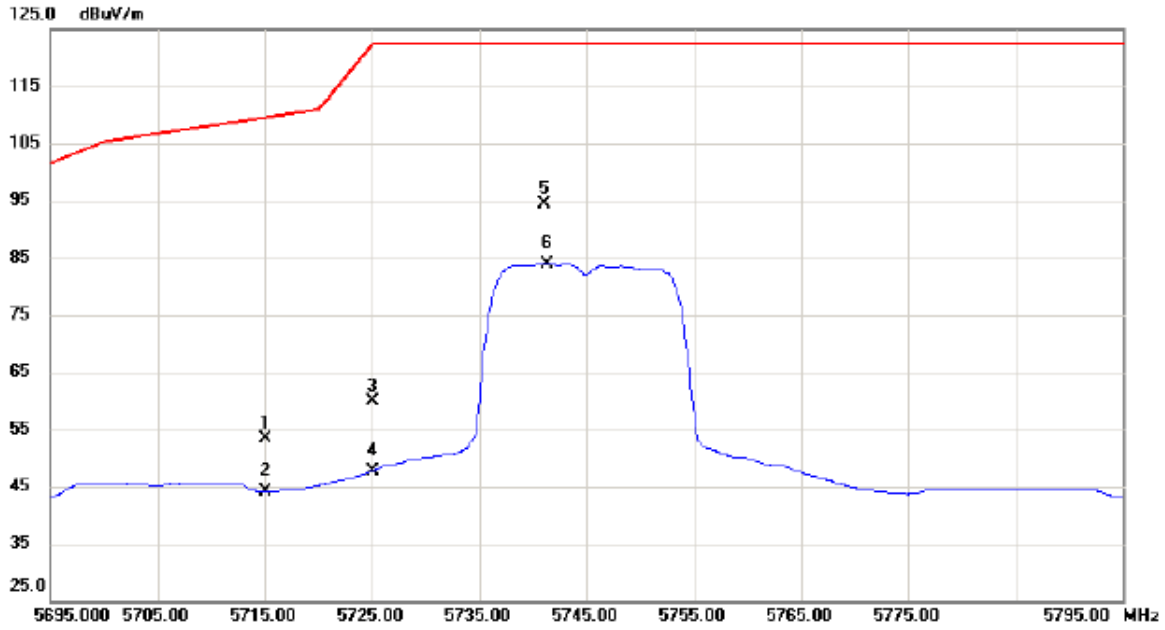
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	10458.68	20.98	13.91	34.89	54.00	-19.11	AVG	
2		10462.35	30.71	13.92	44.63	68.30	-23.67	peak	

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

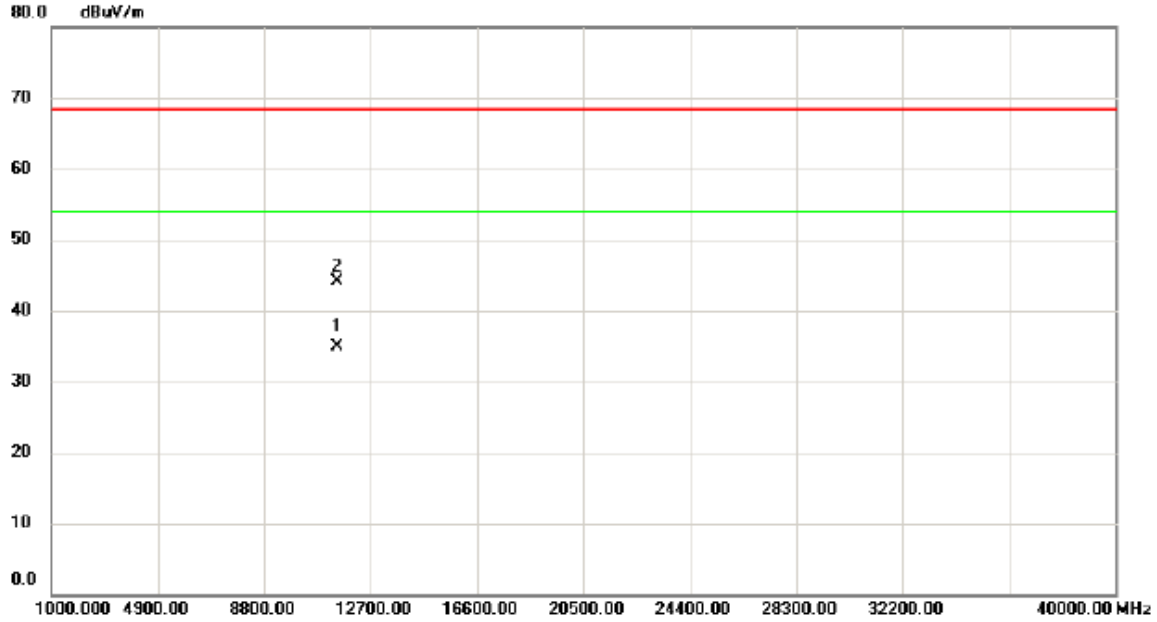
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	12.50	40.79	53.29	109.50	-56.21	peak	
2		5715.000	3.26	40.79	44.05	109.50	-65.45	AVG	
3		5725.000	19.16	40.81	59.97	122.30	-62.33	peak	
4		5725.000	6.86	40.81	47.67	122.30	-74.63	AVG	
5	*	5741.000	53.58	40.82	94.40	122.30	-27.90	peak	
6		5741.400	43.16	40.82	83.98	122.30	-38.32	AVG	

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

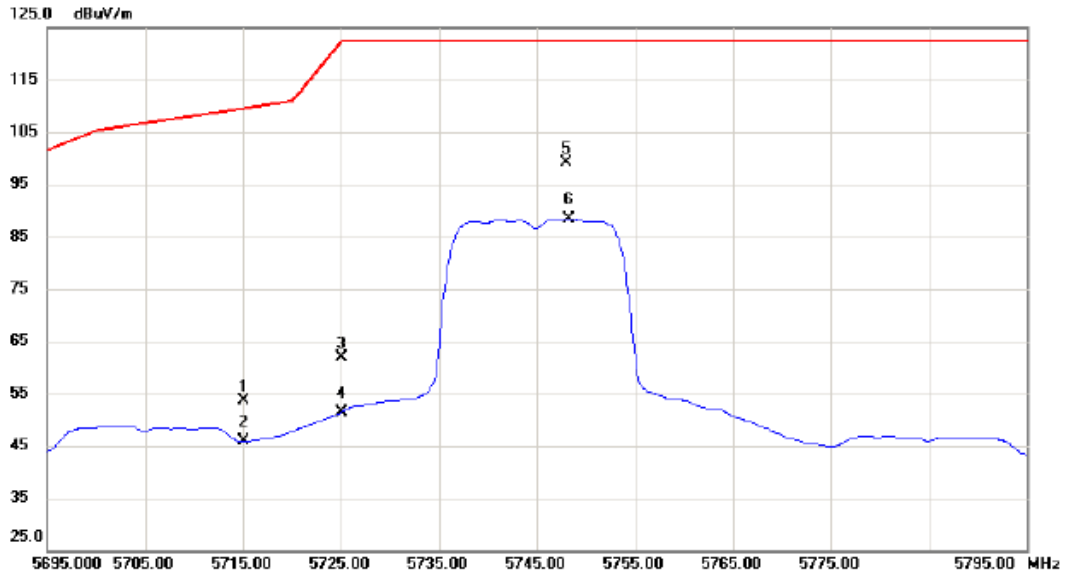
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11491.40	19.45	15.54	34.99	54.00	-19.01	AVG	
2		11489.90	28.47	15.54	44.01	68.30	-24.29	peak	

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

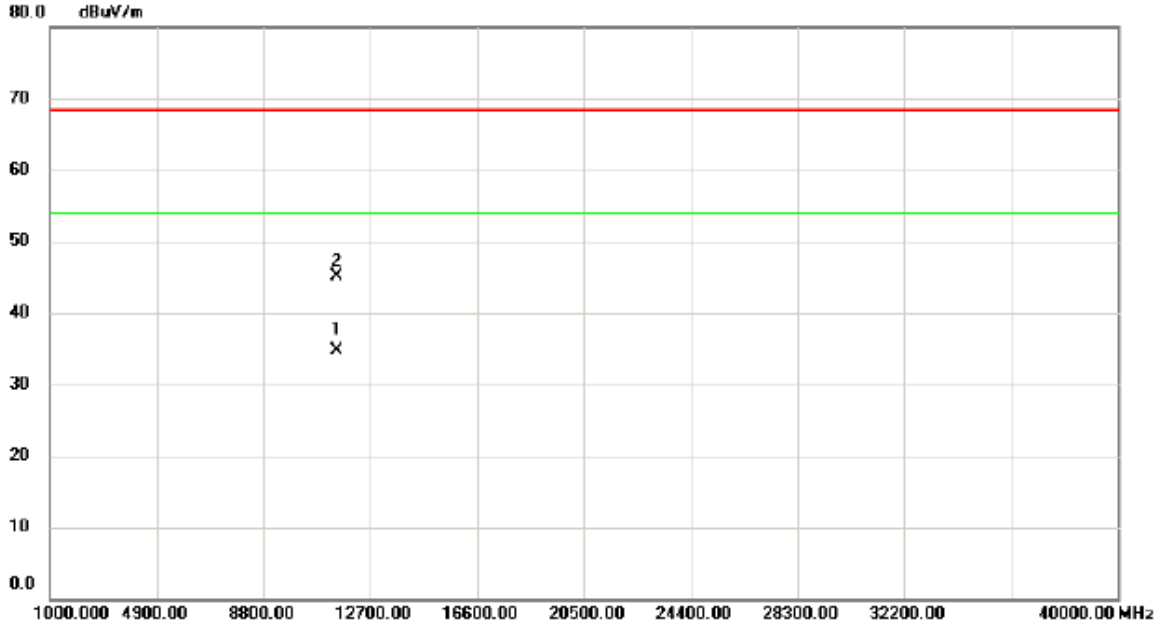
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	12.76	40.79	53.55	109.50	-55.95	peak	
2		5715.000	5.04	40.79	45.83	109.50	-63.67	AVG	
3		5725.000	21.17	40.81	61.98	122.30	-60.32	peak	
4		5725.000	10.53	40.81	51.34	122.30	-70.96	AVG	
5	*	5748.050	58.28	40.82	99.10	122.30	-23.20	peak	
6		5748.300	47.55	40.82	88.37	122.30	-33.93	AVG	

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

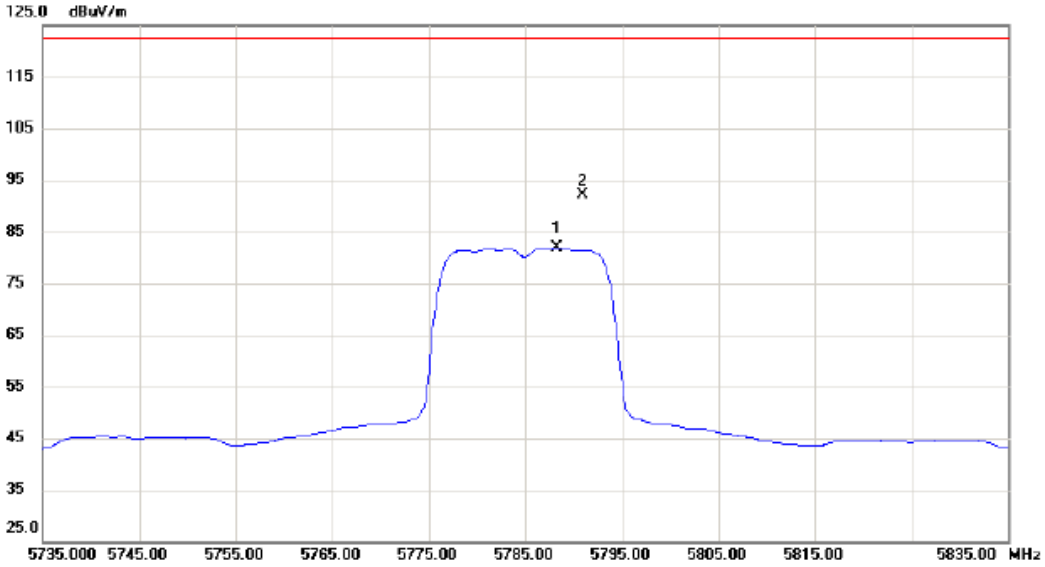
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11489.102	19.11	15.53	34.64	54.00	-19.36	AVG	
2		11490.222	29.63	15.54	45.17	68.30	-23.13	peak	

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

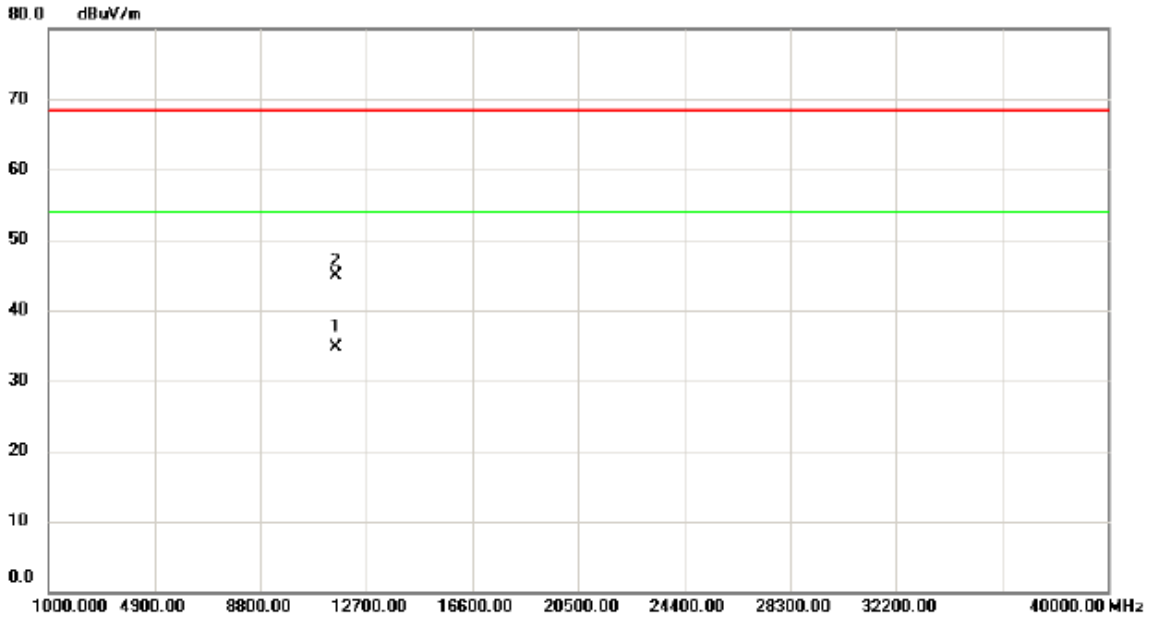
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5788.300	41.00	40.85	81.85	122.30	-40.45	AVG	
2	*	5790.900	51.37	40.85	92.22	122.30	-30.08	peak	

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

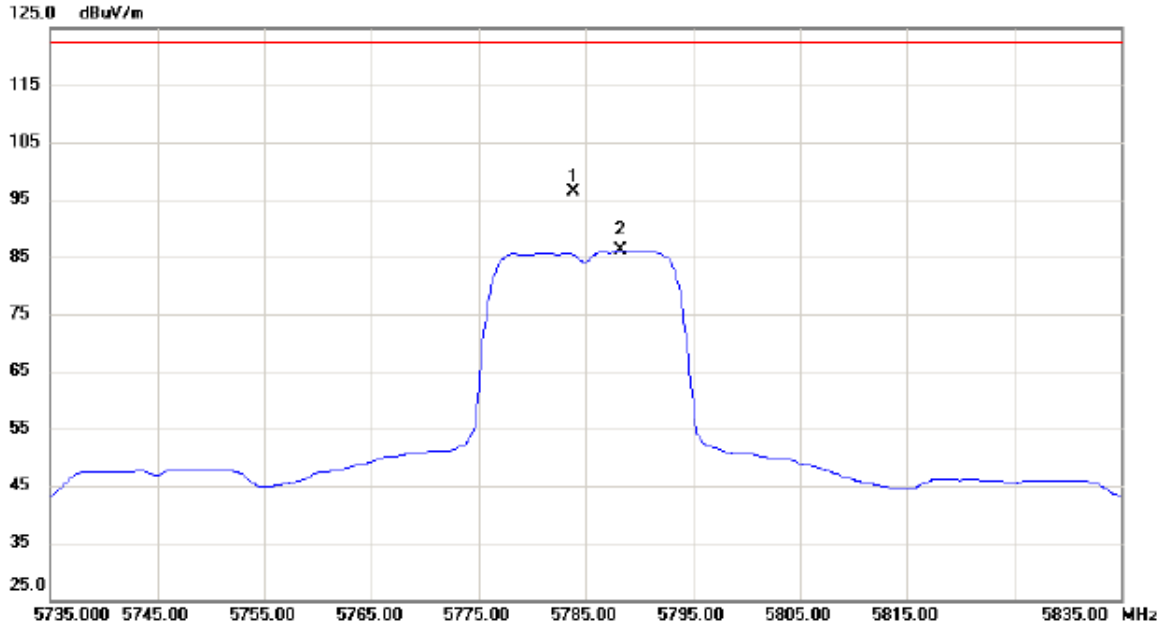
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11568.71	19.15	15.50	34.65	54.00	-19.35	AVG	
2		11571.20	29.46	15.49	44.95	68.30	-23.35	peak	

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

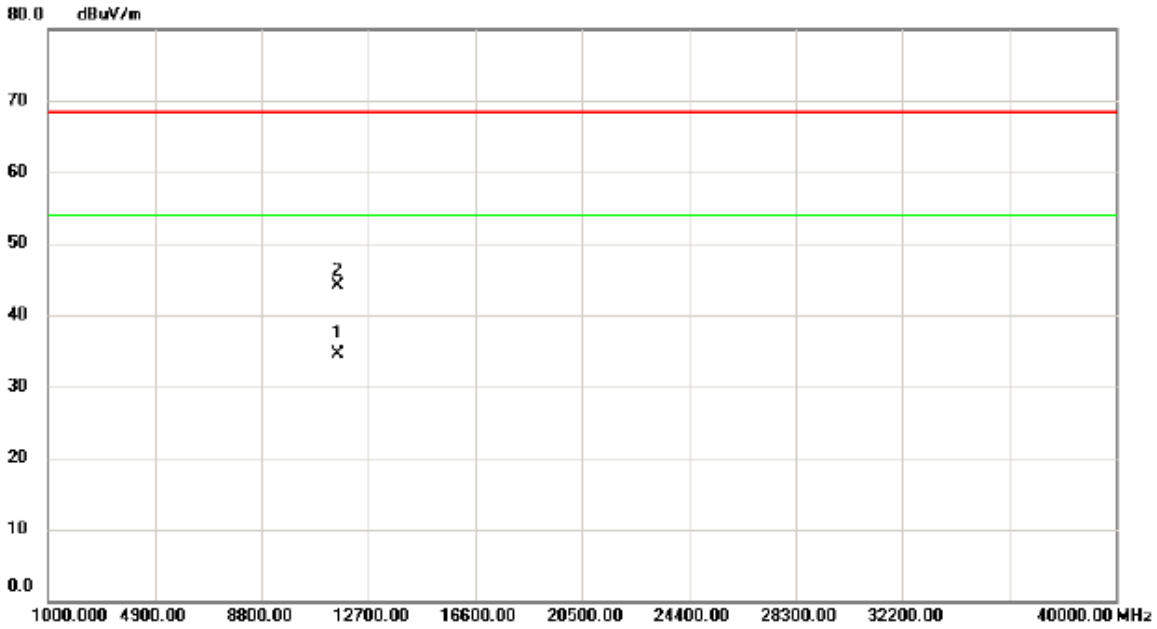
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5783.850	55.51	40.85	96.36	122.30	-25.94	peak	
2		5788.300	45.25	40.85	86.10	122.30	-36.20	AVG	

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

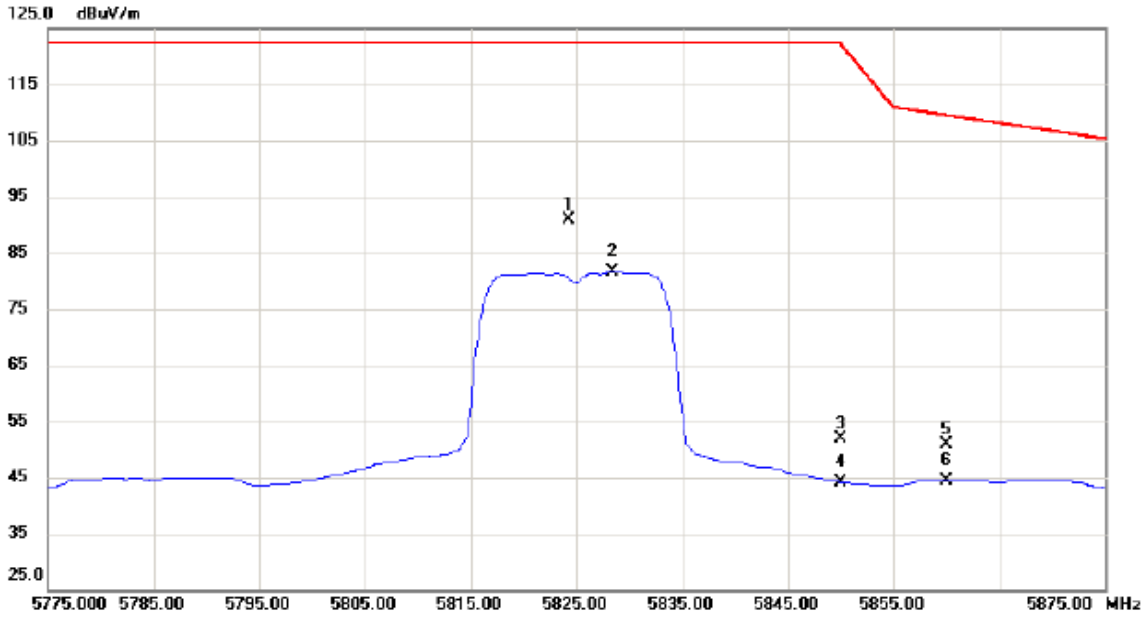
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11569.382	19.10	15.49	34.59	54.00	-19.41	AVG	
2		11570.102	28.71	15.49	44.20	68.30	-24.10	peak	

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

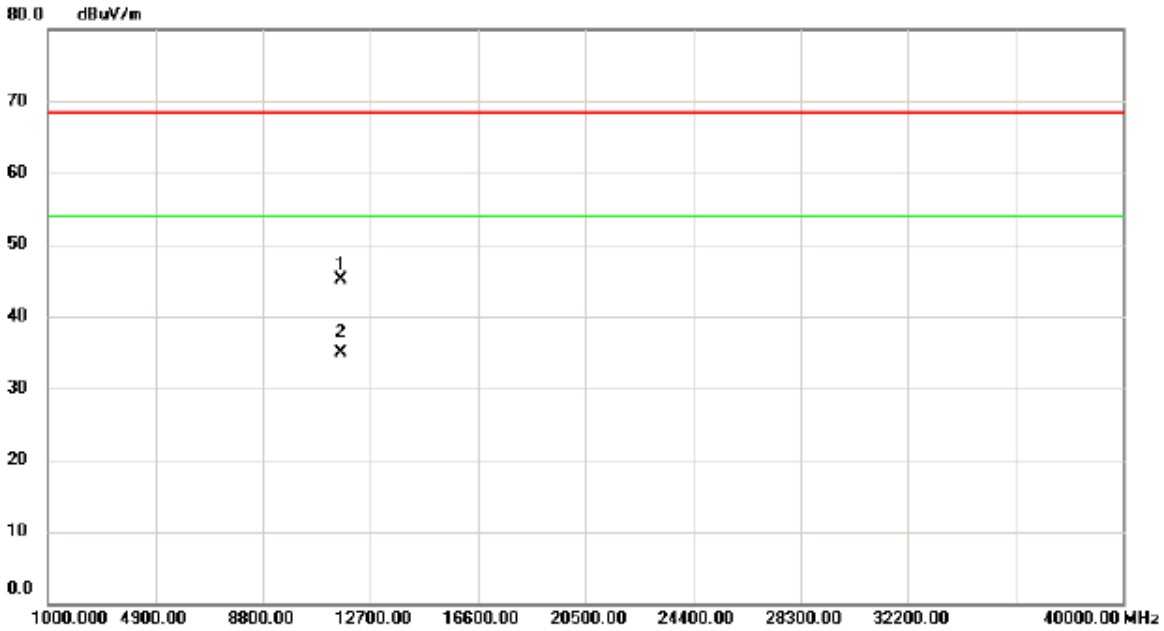
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5824.300	50.02	40.87	90.89	122.30	-31.41	peak	
2		5828.350	40.74	40.88	81.62	122.30	-40.68	AVG	
3		5850.000	11.07	40.89	51.96	122.30	-70.34	peak	
4		5850.000	3.31	40.89	44.20	122.30	-78.10	AVG	
5		5860.000	10.09	40.90	50.99	109.50	-58.51	peak	
6		5860.000	3.44	40.90	44.34	109.50	-65.16	AVG	

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

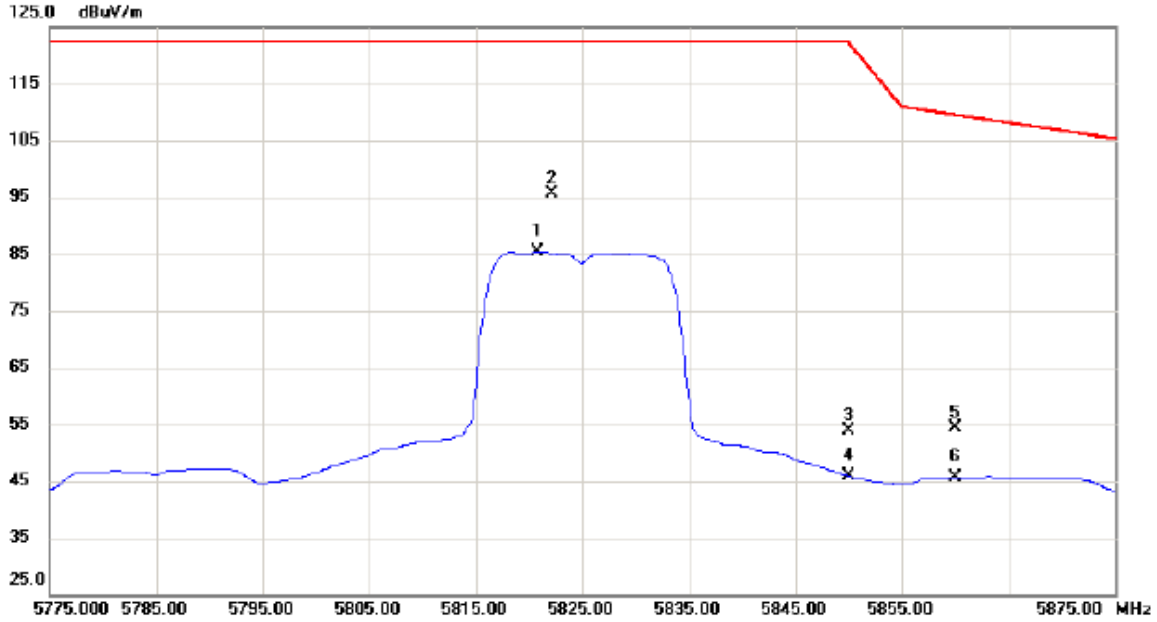
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11649.42	29.62	15.44	45.06	68.30	-23.24	peak	
2	*	11650.20	19.47	15.44	34.91	54.00	-19.09	AVG	

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

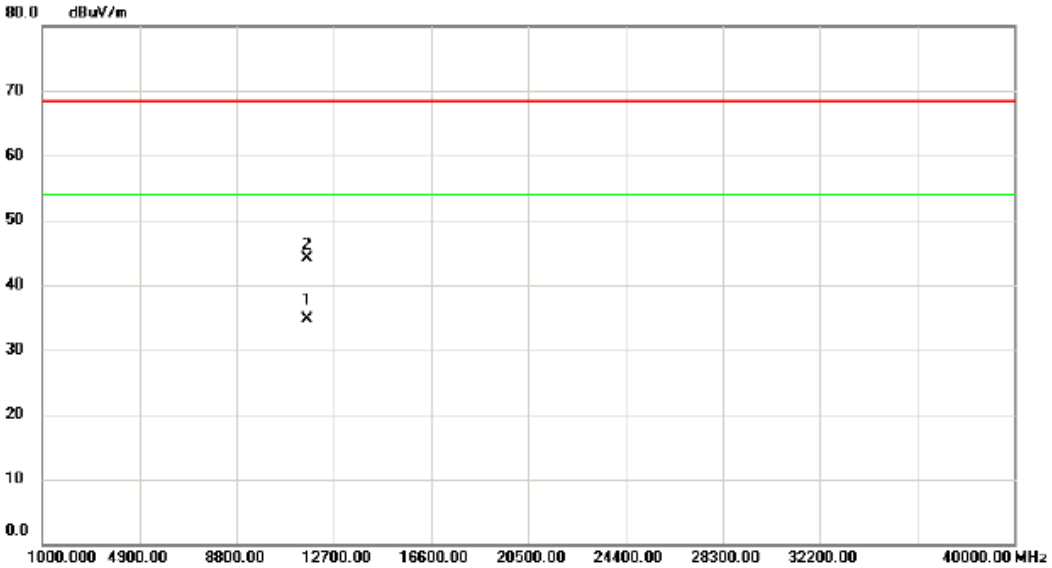
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5820.850	44.47	40.87	85.34	122.30	-36.96	AVG	
2	*	5822.200	54.71	40.87	95.58	122.30	-26.72	peak	
3		5850.000	13.10	40.89	53.99	122.30	-68.31	peak	
4		5850.000	5.01	40.89	45.90	122.30	-76.40	AVG	
5		5860.000	13.51	40.90	54.41	109.50	-55.09	peak	
6		5860.000	4.66	40.90	45.56	109.50	-63.94	AVG	

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

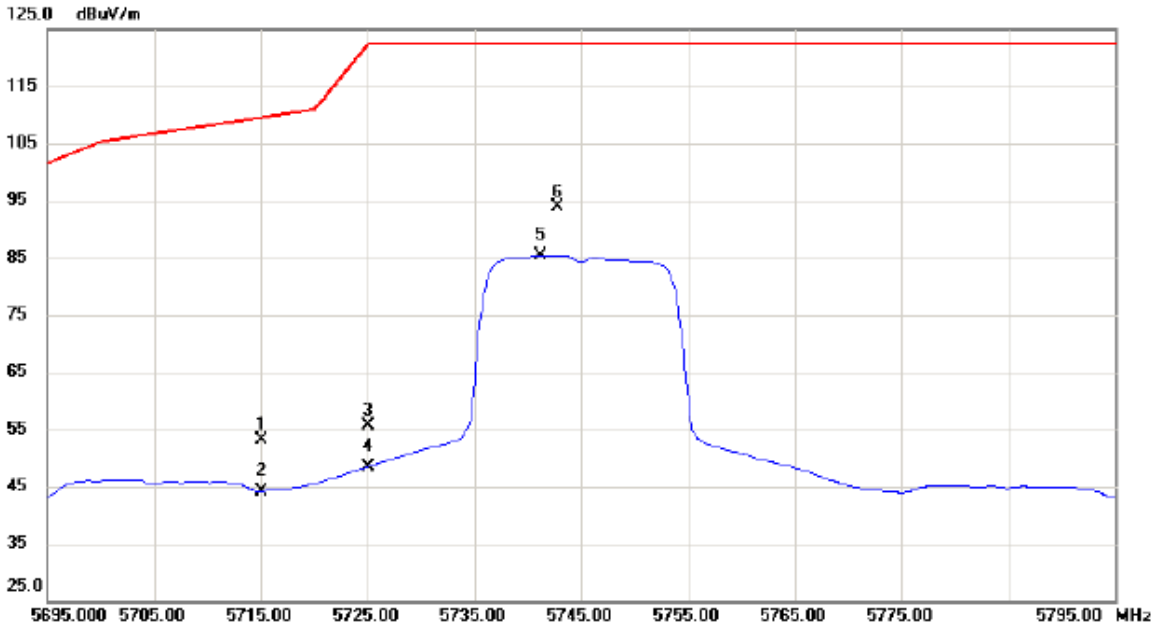
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11649.70	19.25	15.44	34.69	54.00	-19.31	AVG	
2		11649.82	28.74	15.44	44.18	68.30	-24.12	peak	

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

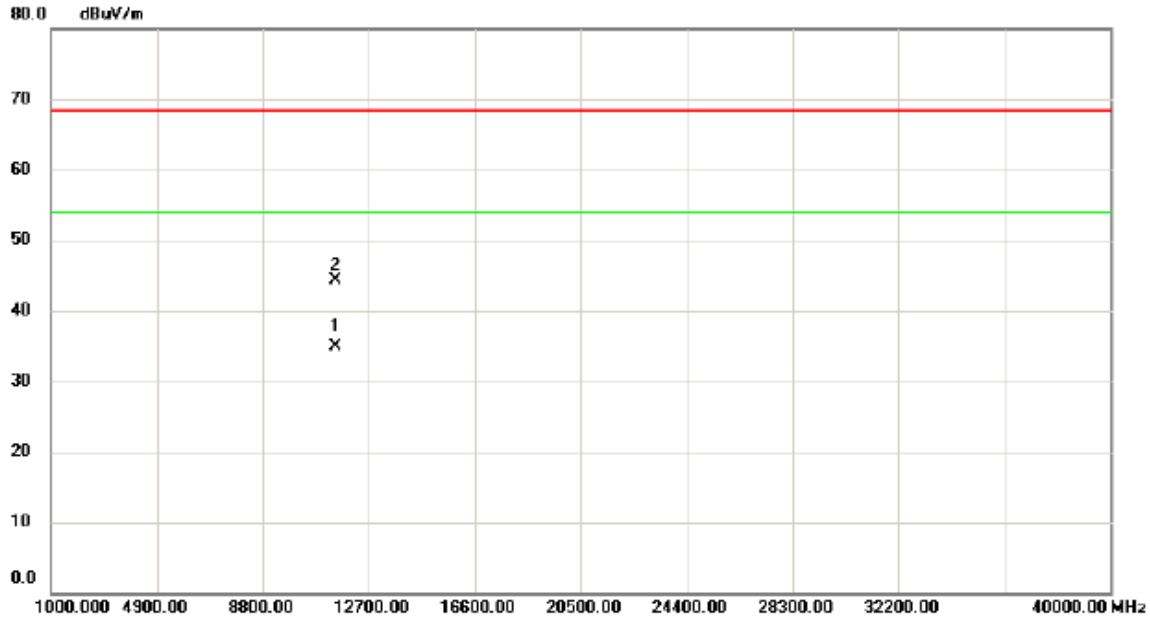
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	12.28	40.79	53.07	109.50	-56.43	peak	
2		5715.000	3.39	40.79	44.18	109.50	-65.32	AVG	
3		5725.000	14.88	40.81	55.69	122.30	-66.61	peak	
4		5725.000	7.61	40.81	48.42	122.30	-73.88	AVG	
5		5741.200	44.63	40.82	85.45	122.30	-36.85	AVG	
6	*	5742.850	52.96	40.82	93.78	122.30	-28.52	peak	

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

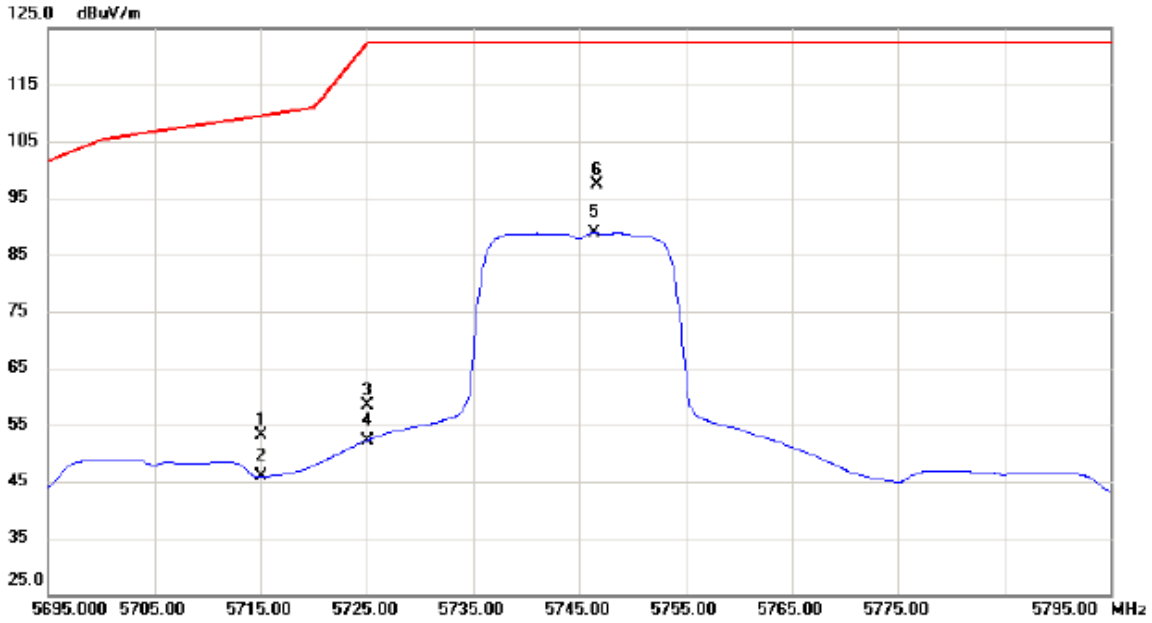
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11490.31	19.42	15.54	34.96	54.00	-19.04	AVG	
2		11490.51	28.67	15.54	44.21	68.30	-24.09	peak	

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

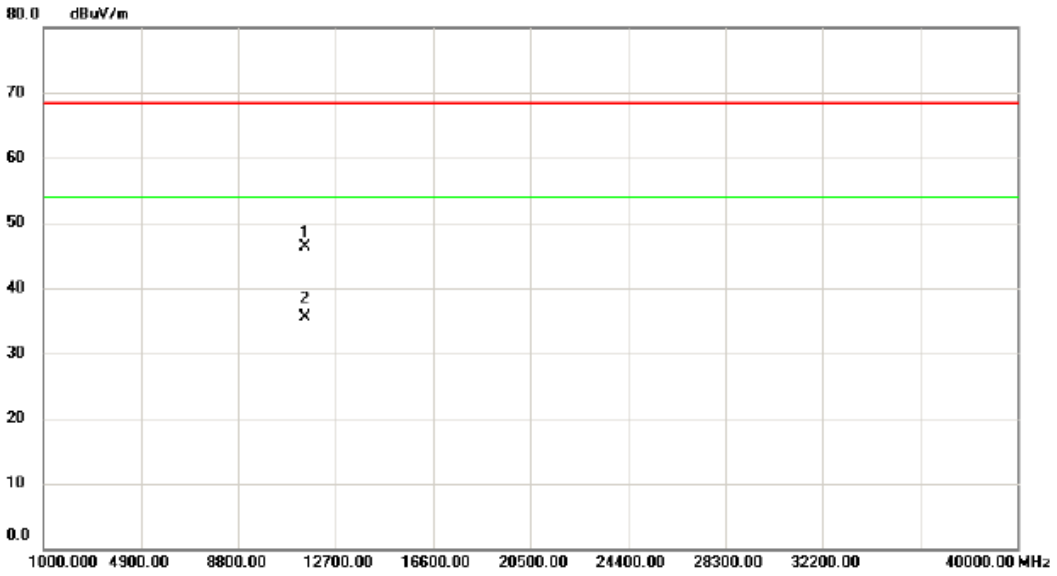
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	12.37	40.79	53.16	109.50	-56.34	peak	
2		5715.000	4.98	40.79	45.77	109.50	-63.73	AVG	
3		5725.000	17.65	40.81	58.46	122.30	-63.84	peak	
4		5725.000	11.41	40.81	52.22	122.30	-70.08	AVG	
5		5746.400	48.00	40.82	88.82	122.30	-33.48	AVG	
6	*	5746.700	56.52	40.82	97.34	122.30	-24.96	peak	

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

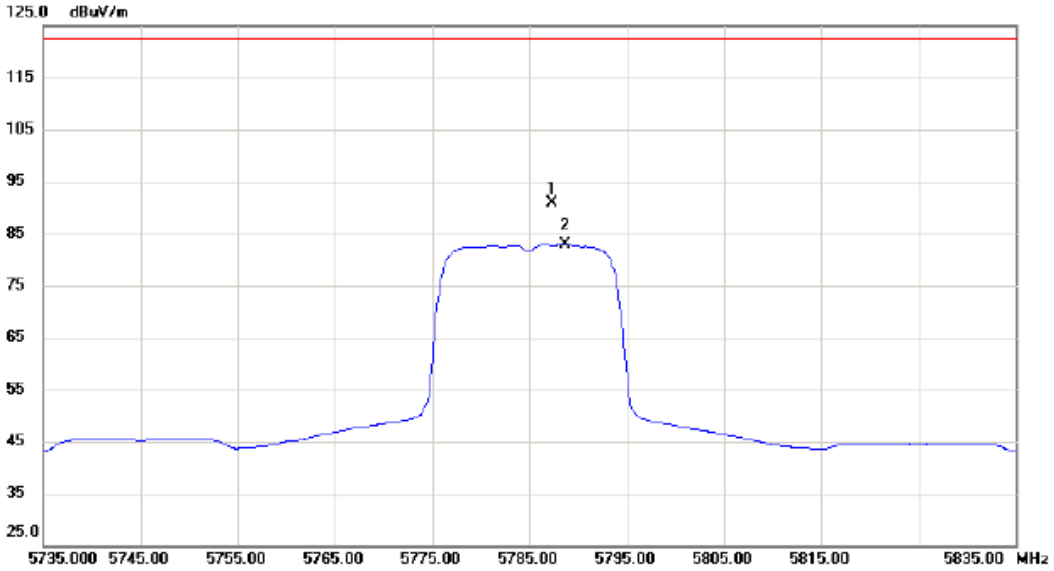
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11489.22	30.70	15.53	46.23	68.30	-22.07	peak	
2	*	11489.61	20.03	15.54	35.57	54.00	-18.43	AVG	

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

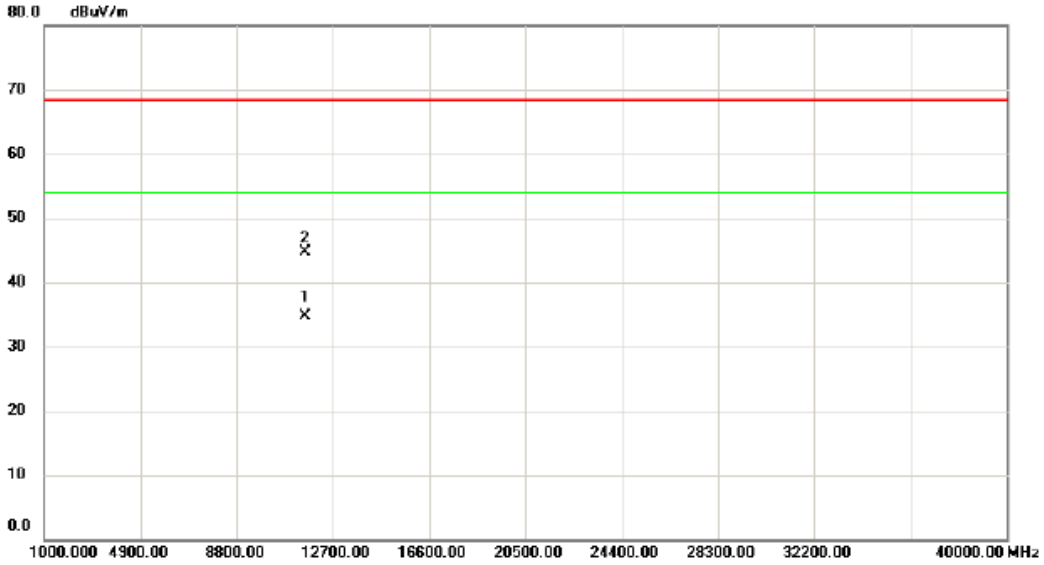
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5787.350	50.13	40.85	90.98	122.30	-31.32	peak	
2		5788.600	42.00	40.85	82.85	122.30	-39.45	AVG	

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

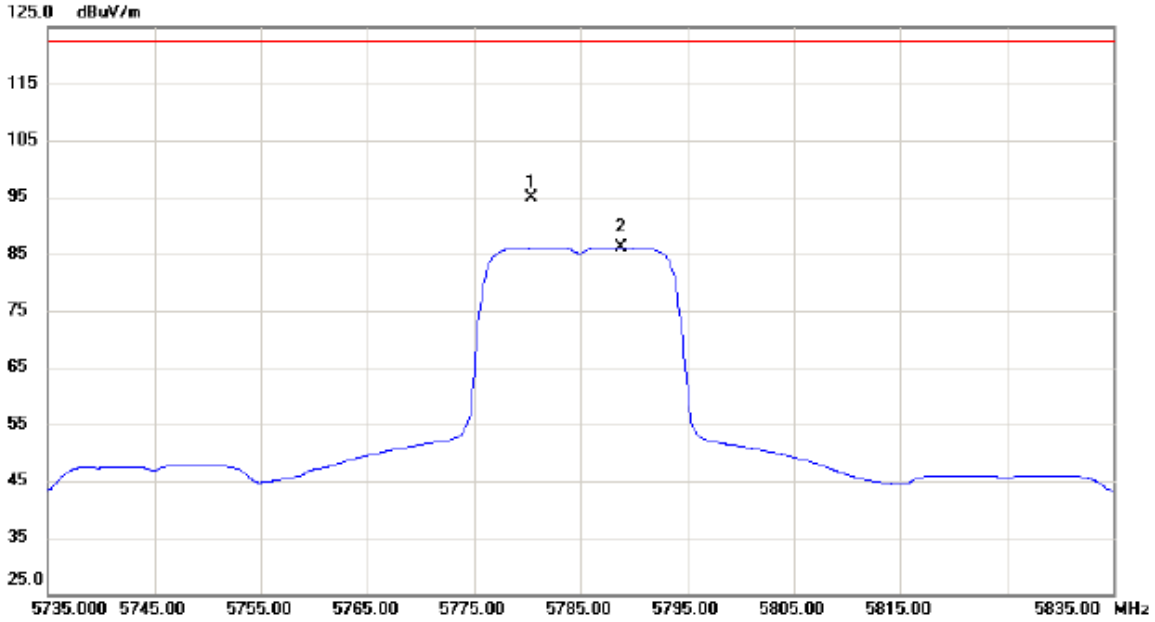
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11569.80	19.31	15.49	34.80	54.00	-19.20	AVG	
2		11569.84	29.25	15.49	44.74	68.30	-23.56	peak	

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

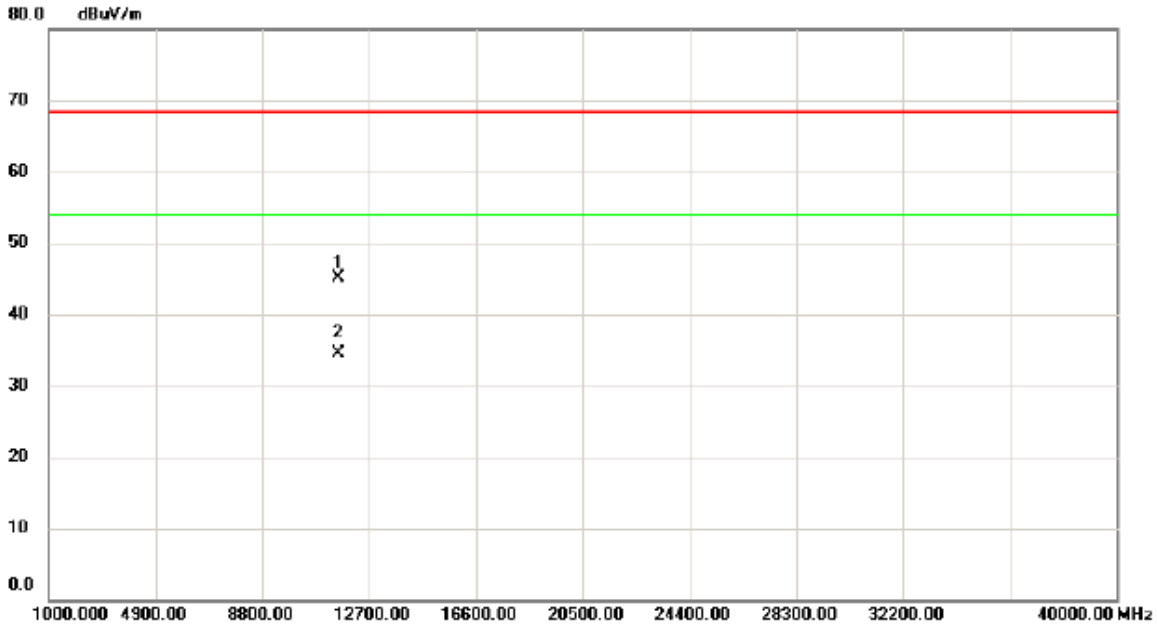
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5780.400	53.91	40.85	94.76	122.30	-27.54	peak	
2		5788.750	45.39	40.85	86.24	122.30	-36.06	AVG	

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

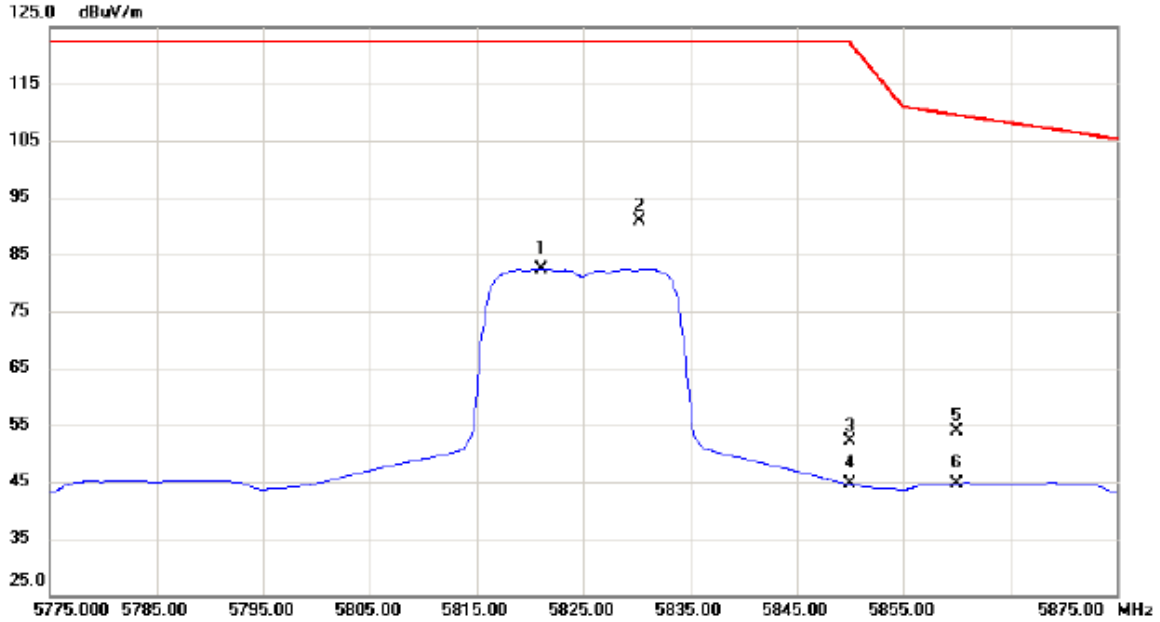
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11569.80	29.70	15.49	45.19	68.30	-23.11	peak	
2	*	11570.24	19.01	15.49	34.50	54.00	-19.50	AVG	

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

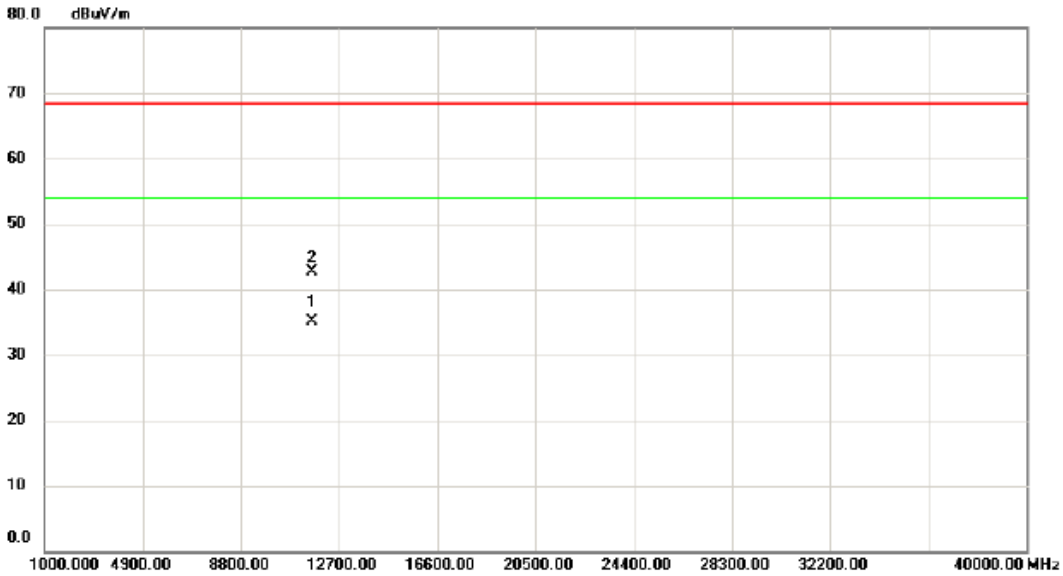
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5821.100	41.57	40.87	82.44	122.30	-39.86	AVG	
2	*	5830.300	50.09	40.88	90.97	122.30	-31.33	peak	
3		5850.000	11.13	40.89	52.02	122.30	-70.28	peak	
4		5850.000	3.65	40.89	44.54	122.30	-77.76	AVG	
5		5860.000	12.93	40.90	53.83	109.50	-55.67	peak	
6		5860.000	3.81	40.90	44.71	109.50	-64.79	AVG	

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

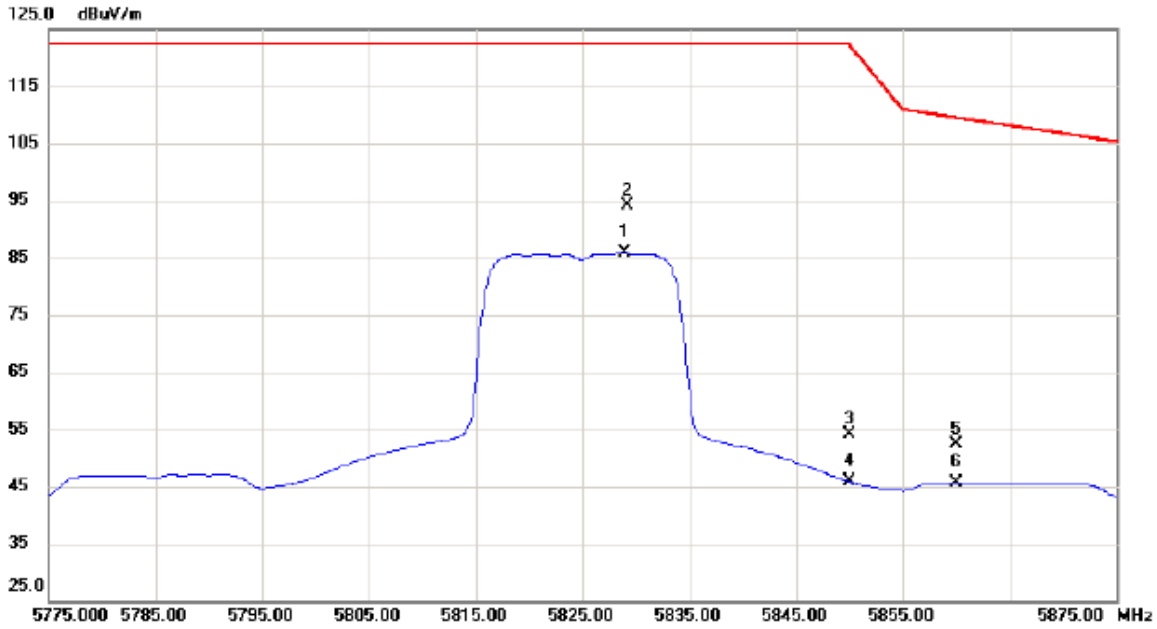
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11649.68	19.75	15.44	35.19	54.00	-18.81	AVG	
2		11650.12	27.22	15.44	42.66	68.30	-25.64	peak	

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

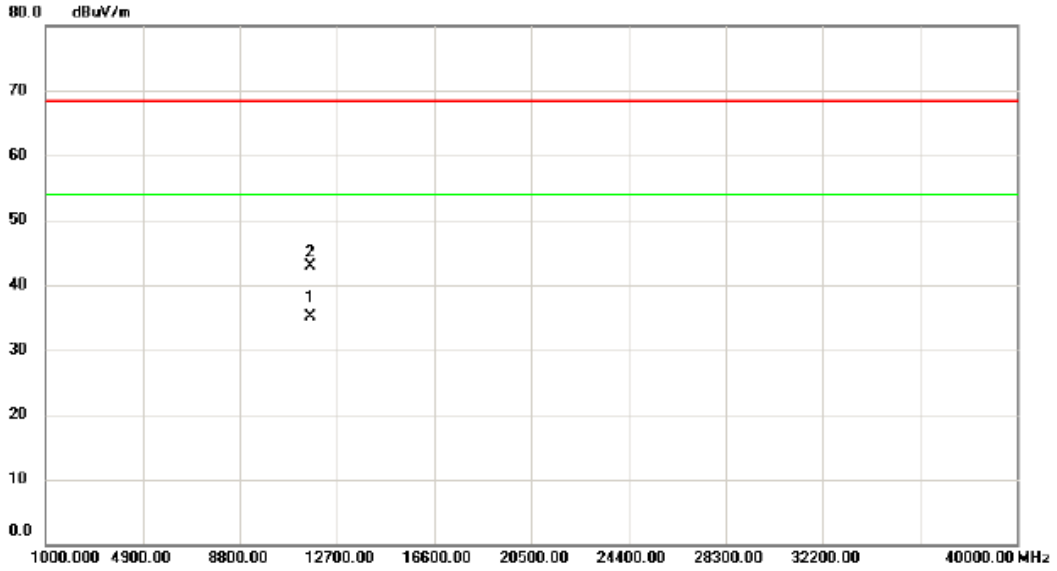
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5828.900	44.97	40.88	85.85	122.30	-36.45	AVG	
2	*	5829.200	53.15	40.88	94.03	122.30	-28.27	peak	
3		5850.000	13.28	40.89	54.17	122.30	-68.13	peak	
4		5850.000	4.96	40.89	45.85	122.30	-76.45	AVG	
5		5860.000	11.53	40.90	52.43	109.50	-57.07	peak	
6		5860.000	4.64	40.90	45.54	109.50	-63.96	AVG	

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

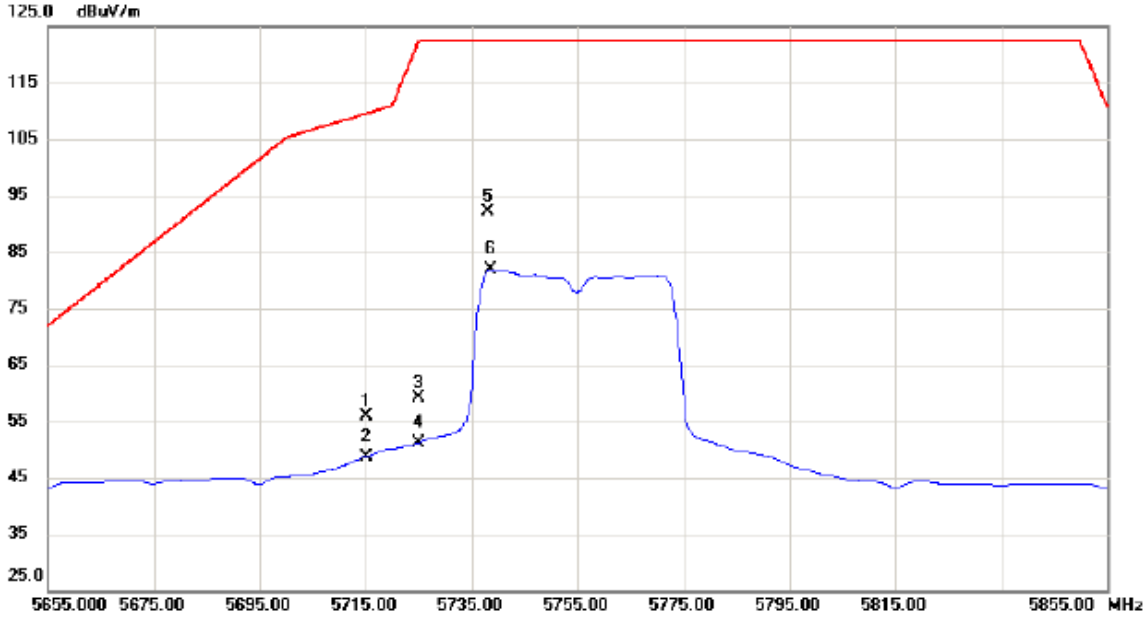
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11650.27	19.75	15.44	35.19	54.00	-18.81	AVG	
2		11649.85	27.55	15.44	42.99	68.30	-25.31	peak	

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

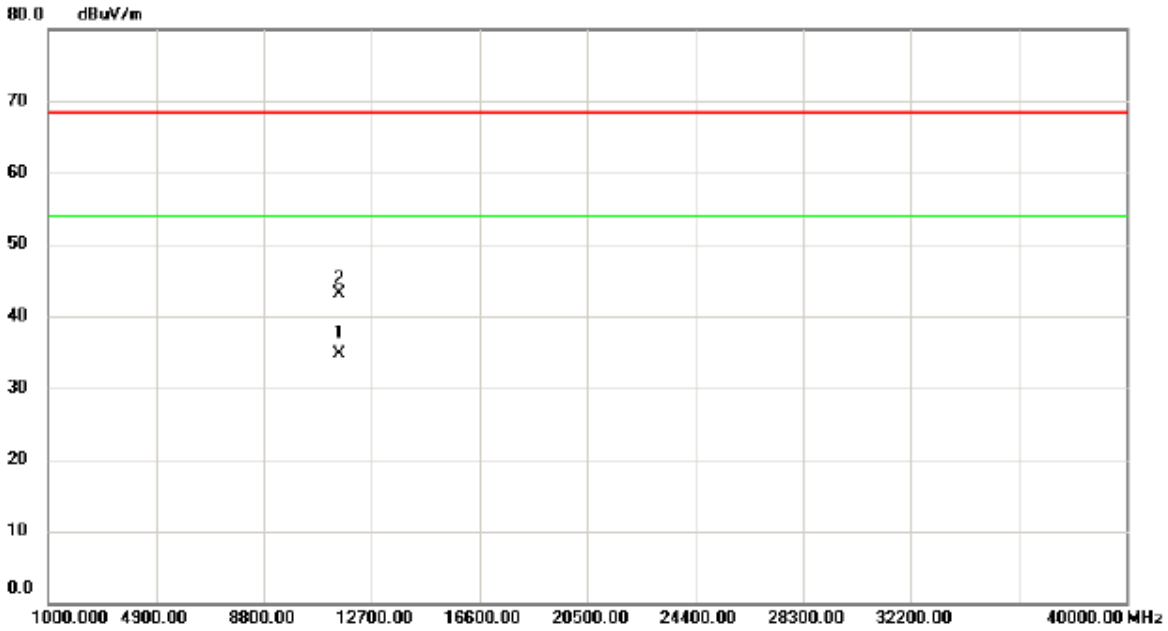
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	15.18	40.79	55.97	109.50	-53.53	peak	
2		5715.000	7.91	40.79	48.70	109.50	-60.80	AVG	
3		5725.000	18.34	40.81	59.15	122.30	-63.15	peak	
4		5725.000	10.42	40.81	51.23	122.30	-71.07	AVG	
5	*	5738.100	51.38	40.81	92.19	122.30	-30.11	peak	
6		5738.600	41.03	40.81	81.84	122.30	-40.46	AVG	

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

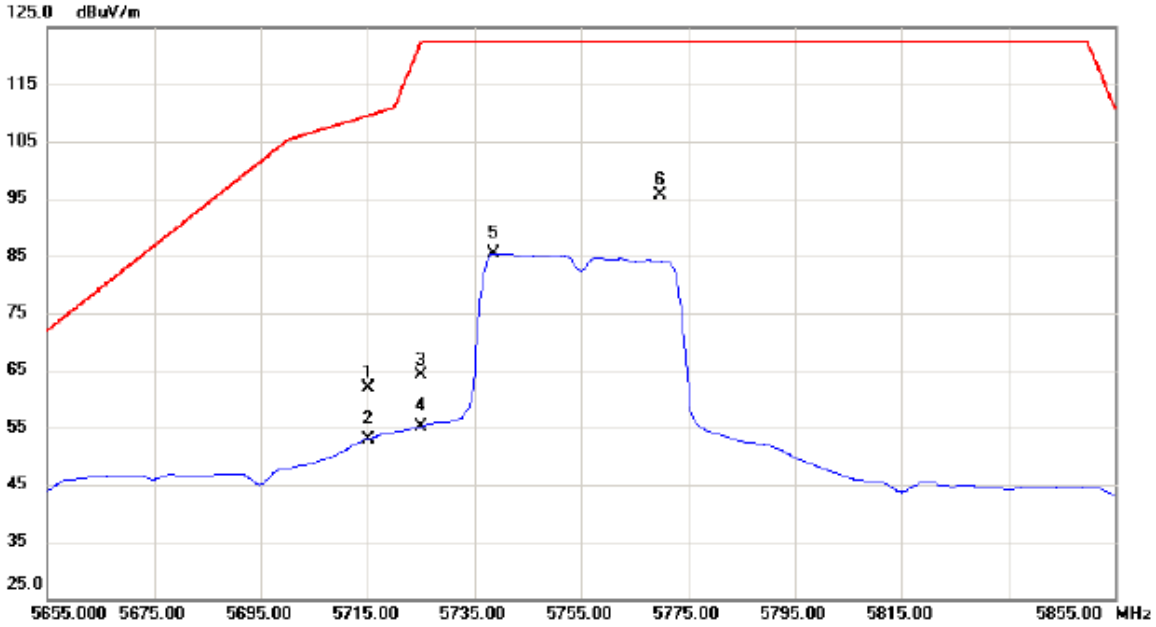
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11509.79	19.10	15.53	34.63	54.00	-19.37	AVG	
2		11510.32	27.48	15.53	43.01	68.30	-25.29	peak	

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

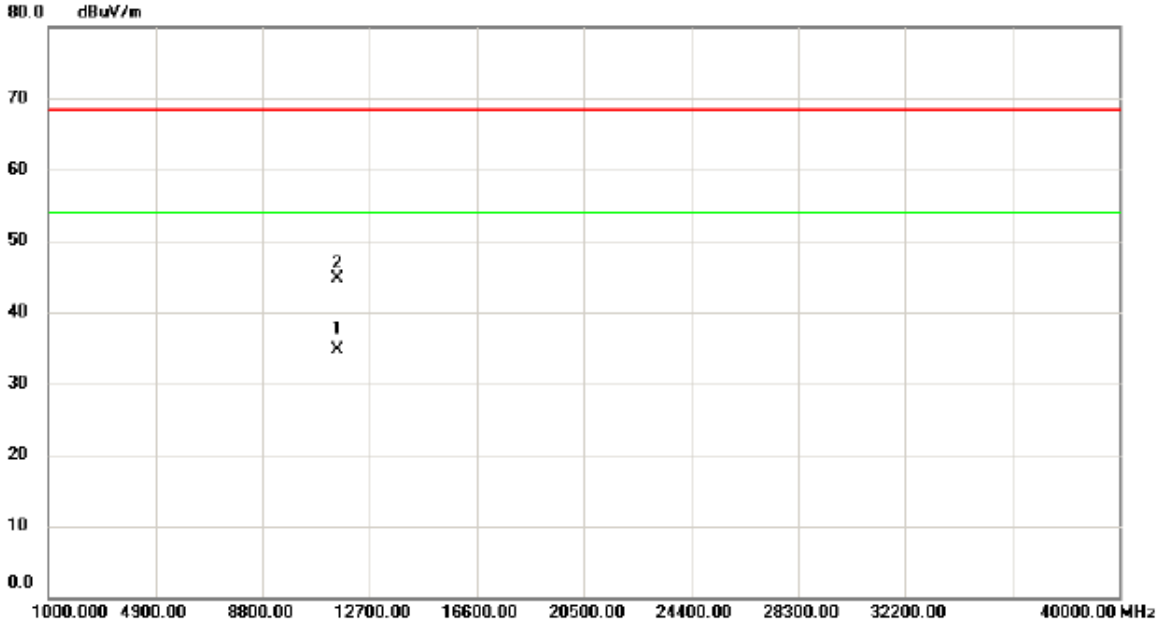
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	21.11	40.79	61.90	109.50	-47.60	peak	
2		5715.000	12.16	40.79	52.95	109.50	-56.55	AVG	
3		5725.000	23.25	40.81	64.06	122.30	-58.24	peak	
4		5725.000	14.38	40.81	55.19	122.30	-67.11	AVG	
5		5738.700	44.59	40.81	85.40	122.30	-36.90	AVG	
6	*	5769.800	54.89	40.83	95.72	122.30	-26.58	peak	

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

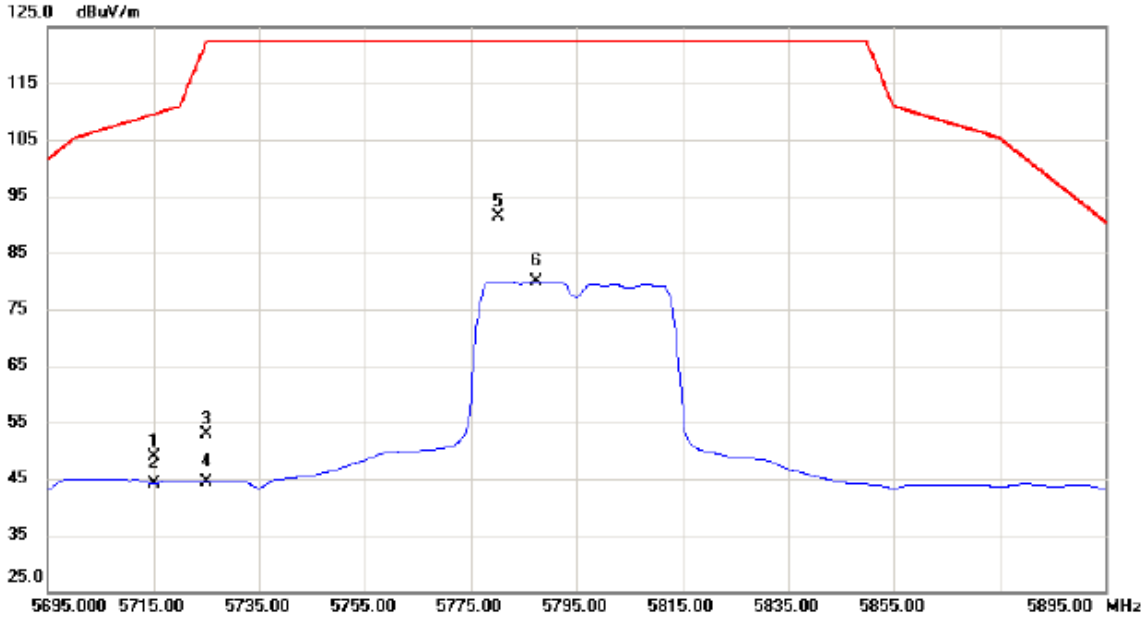
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11509.702	19.12	15.53	34.65	54.00	-19.35	AVG	
2		11510.822	29.24	15.53	44.77	68.30	-23.53	peak	

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

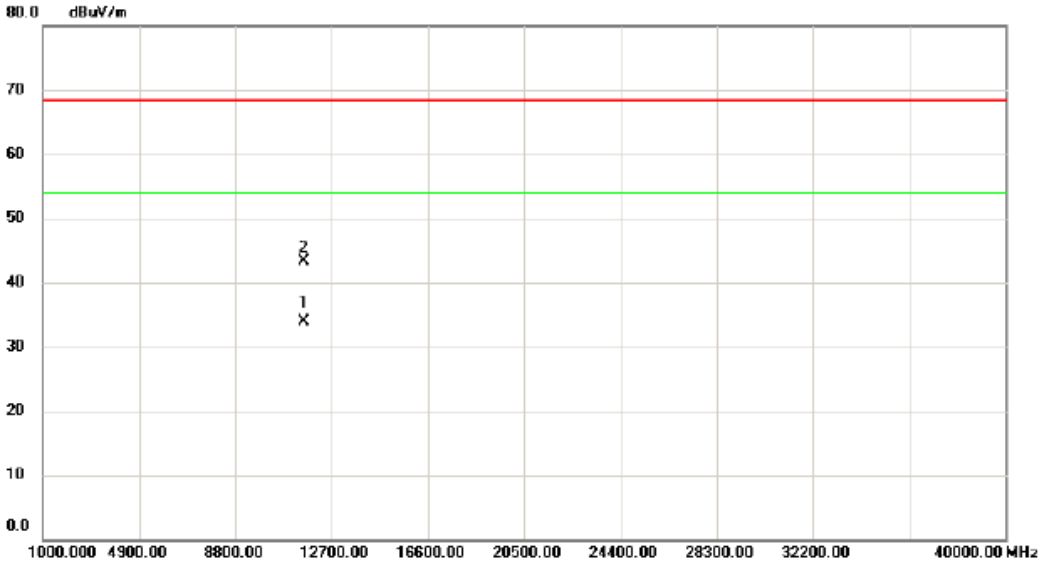
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	8.17	40.79	48.96	109.50	-60.54	peak	
2		5715.000	3.39	40.79	44.18	109.50	-65.32	AVG	
3		5725.000	12.06	40.81	52.87	122.30	-69.43	peak	
4		5725.000	3.65	40.81	44.46	122.30	-77.84	AVG	
5	*	5780.200	50.50	40.85	91.35	122.30	-30.95	peak	
6		5787.300	39.08	40.85	79.93	122.30	-42.37	AVG	

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

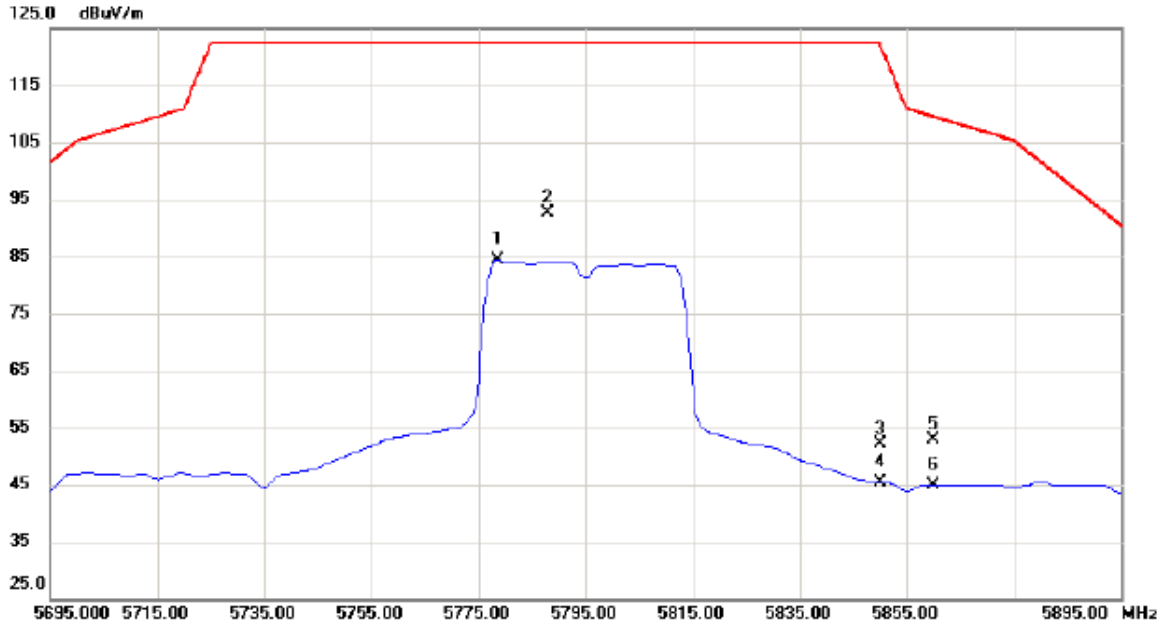
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	11589.69	18.35	15.49	33.84	54.00	-20.16	AVG	
2		11589.51	27.89	15.49	43.38	68.30	-24.92	peak	

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

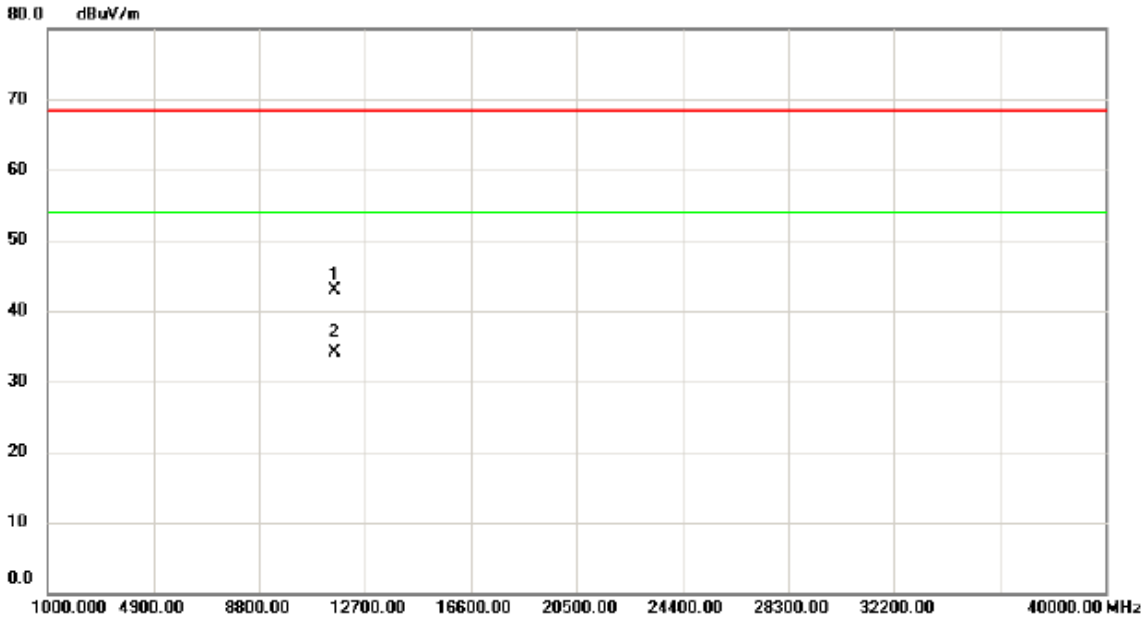
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5778.600	43.50	40.84	84.34	122.30	-37.96	AVG	
2	*	5788.000	51.80	40.85	92.65	122.30	-29.65	peak	
3		5850.000	11.16	40.89	52.05	122.30	-70.25	peak	
4		5850.000	4.53	40.89	45.42	122.30	-76.88	AVG	
5		5860.000	12.06	40.90	52.96	109.50	-56.54	peak	
6		5860.000	4.01	40.90	44.91	109.50	-64.59	AVG	

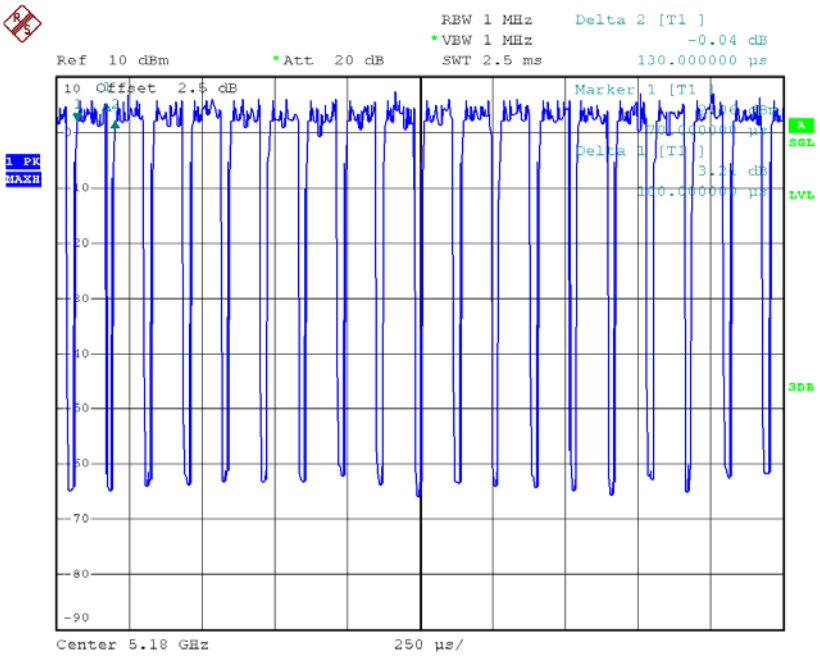
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11589.87	27.35	15.49	42.84	68.30	-25.46	peak	
2	*	11590.21	18.71	15.49	34.20	54.00	-19.80	AVG	

TX A Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

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

T_{ON}: 0.10 msec

T_{Total}: 0.13 msec

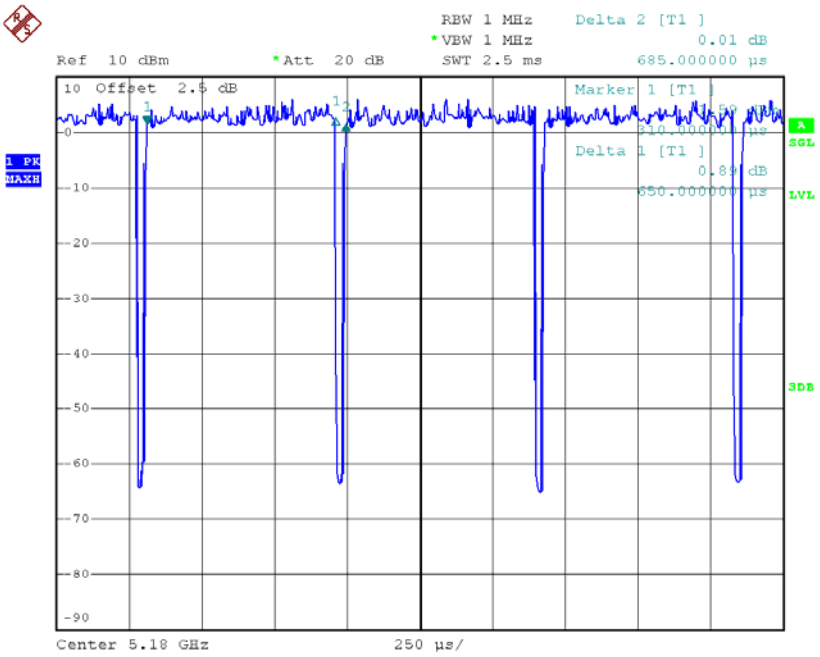
Duty cycle: 76.92%

Duty Factor = 10 log(1/Duty cycle)

Duty Factor = 1.14

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

TX N20 Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

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

T_{ON}: 0.65 msec

T_{Total}: 0.685 msec

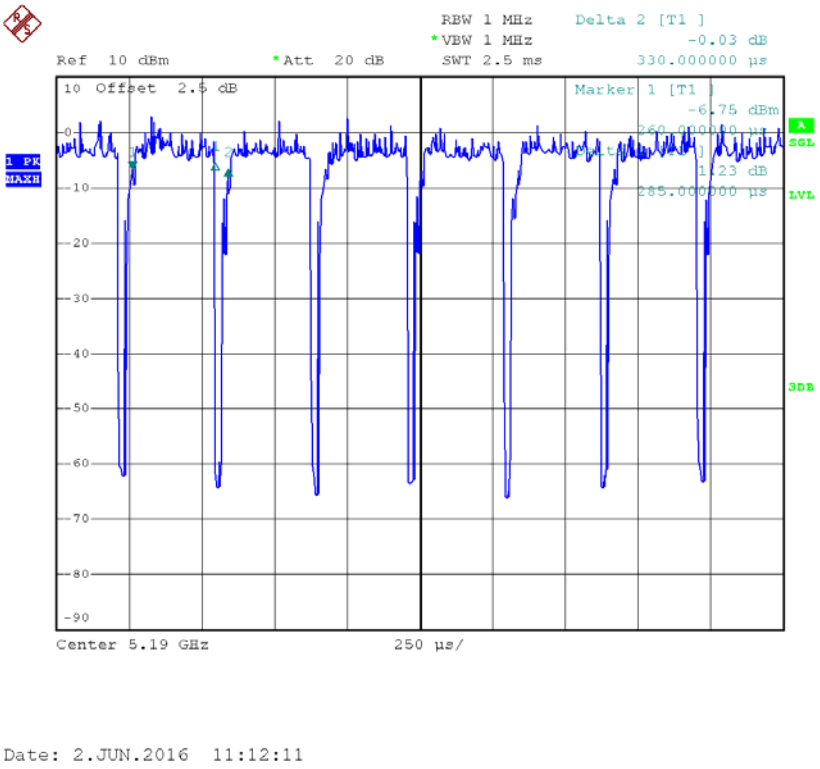
Duty cycle: 94.89%

Duty Factor = 10 log(1/Duty cycle)

Duty Factor = 0.23

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

TX N40 Mode_DUTY CYCLE



Duty cycle: TX DUTYMHz

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

T_{ON}: 0.285 msec

T_{Total}: 0.33 msec

Duty cycle: 86.36%

Duty Factor = 10 log(1/Duty cycle)

Duty Factor = 0.64

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

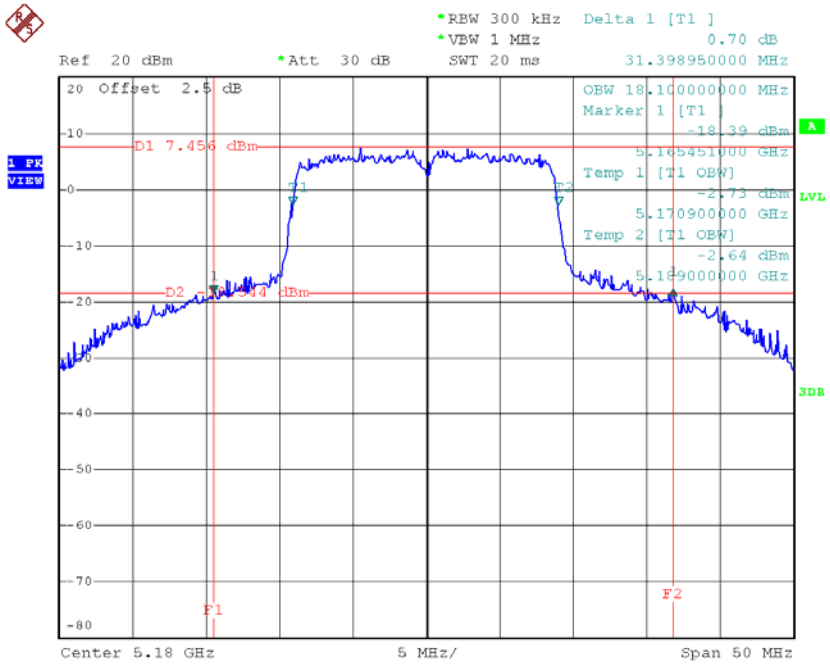
ATTACHMENT E - BANDWIDTH

For ANT 1

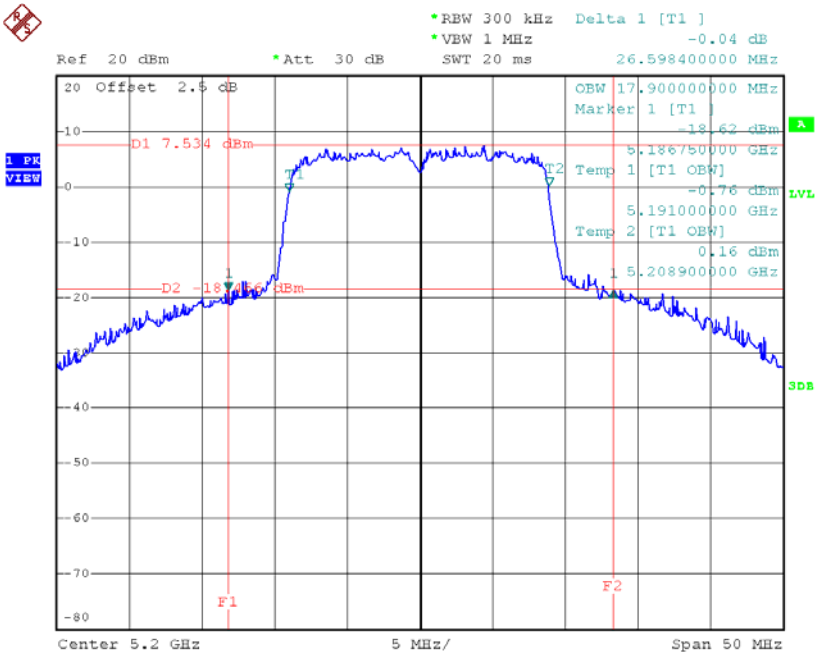
Test Mode: UNII-1/TX A Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	31.40	18.10
CH40	5200	26.60	17.90
CH48	5240	27.45	17.90

TX CH36

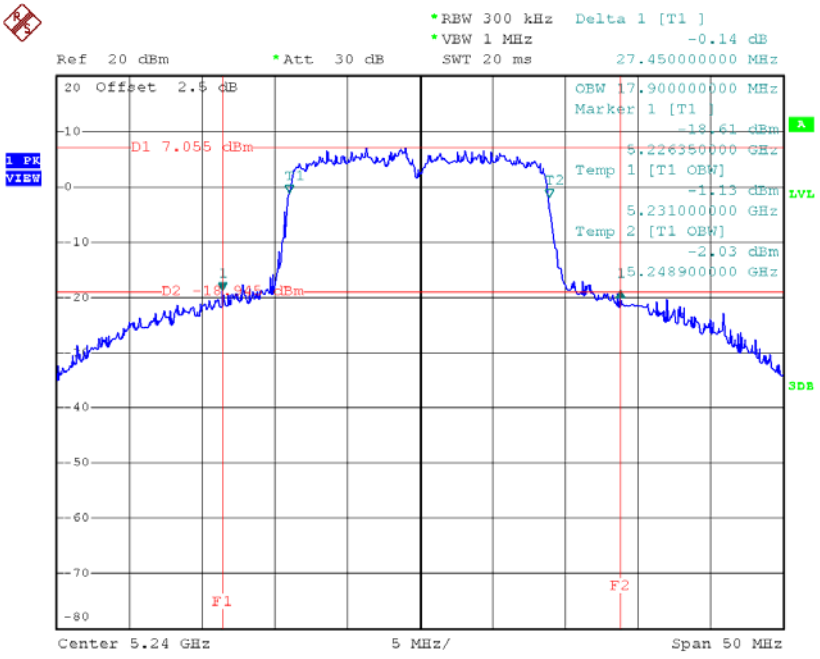


TX CH40



Date: 30.MAY.2016 15:50:29

TX CH48

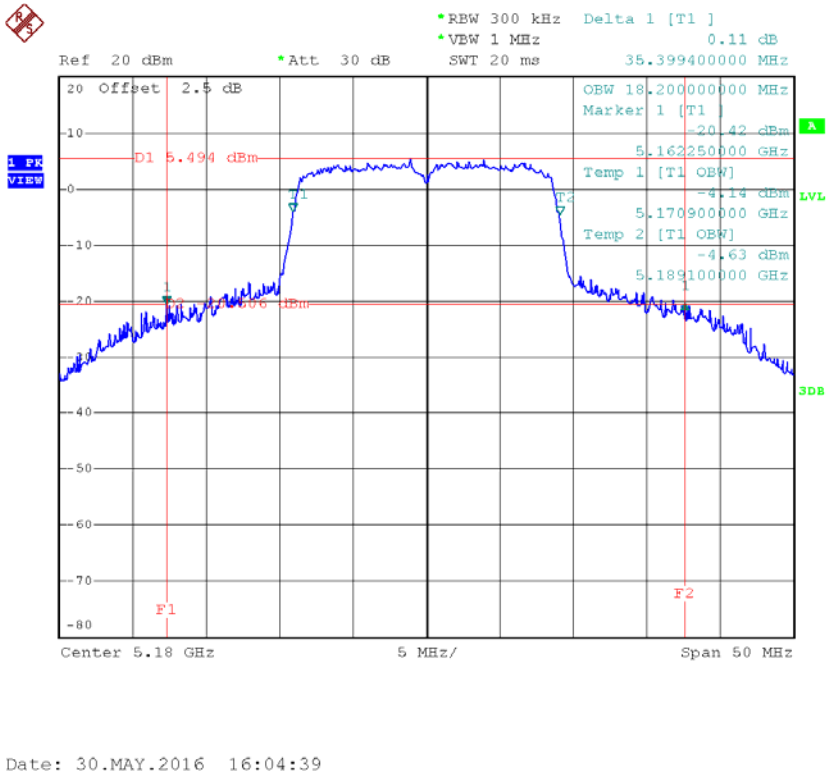


Date: 30.MAY.2016 15:52:03

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

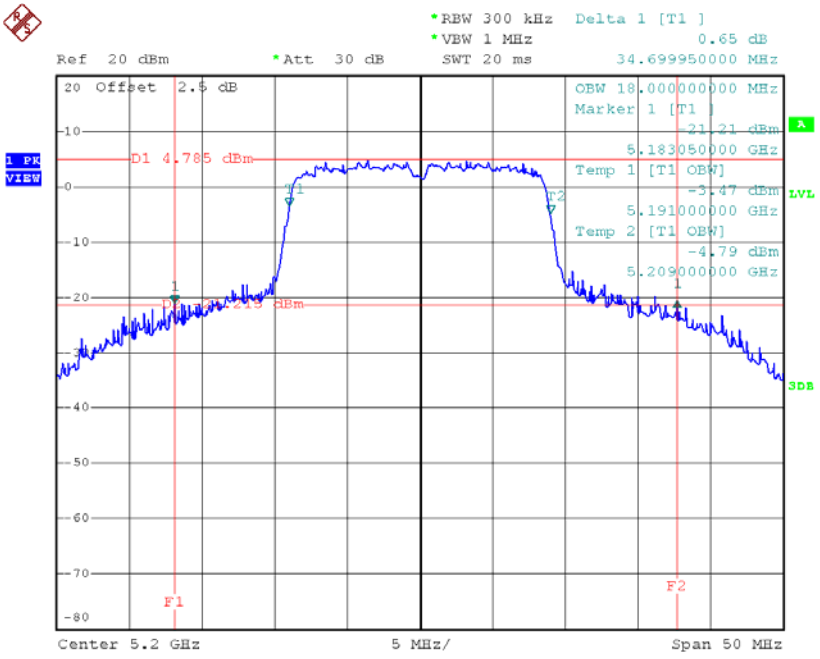
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	35.40	18.20
CH40	5200	34.70	18.00
CH48	5240	28.60	17.90

TX CH36



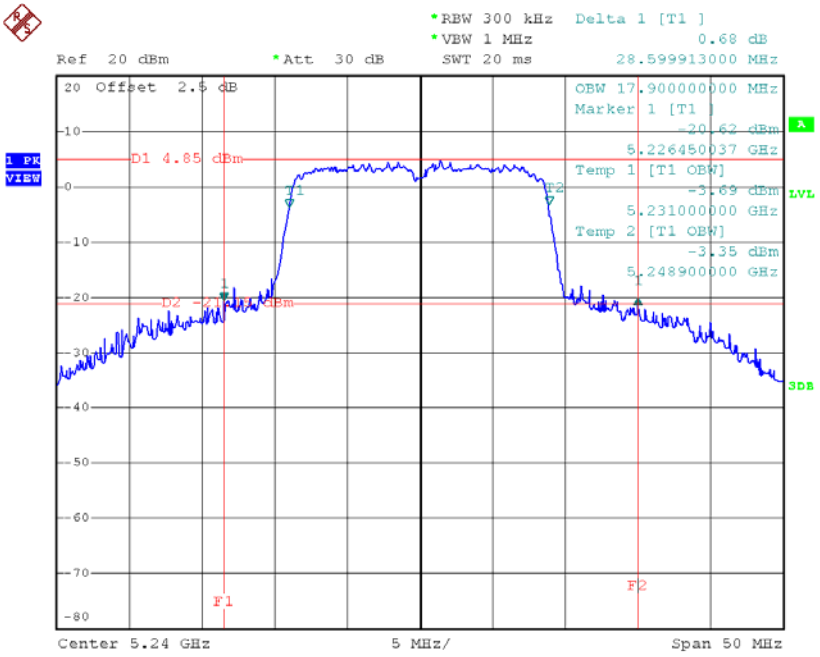
Date: 30.MAY.2016 16:04:39

TX CH40



Date: 30.MAY.2016 16:05:39

TX CH48

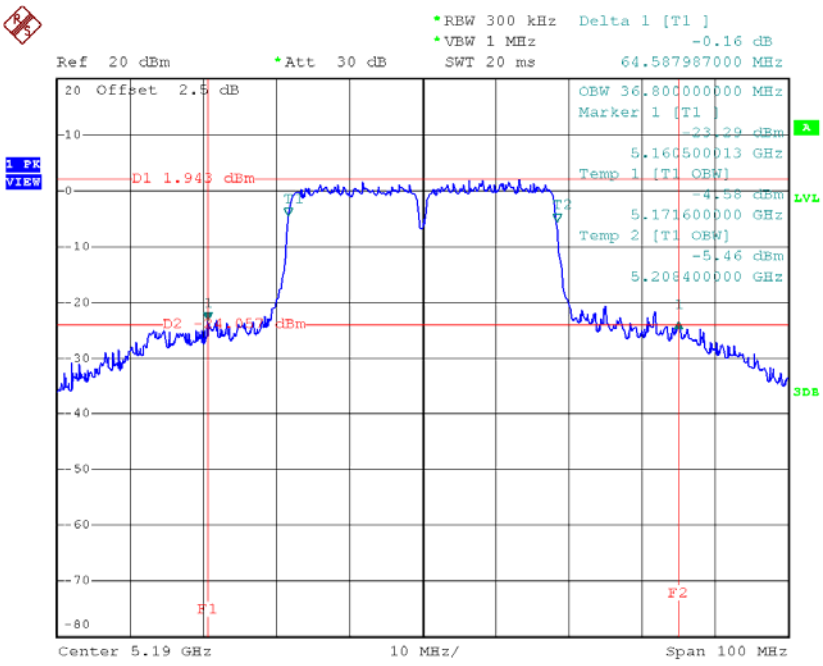


Date: 30.MAY.2016 16:06:41

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

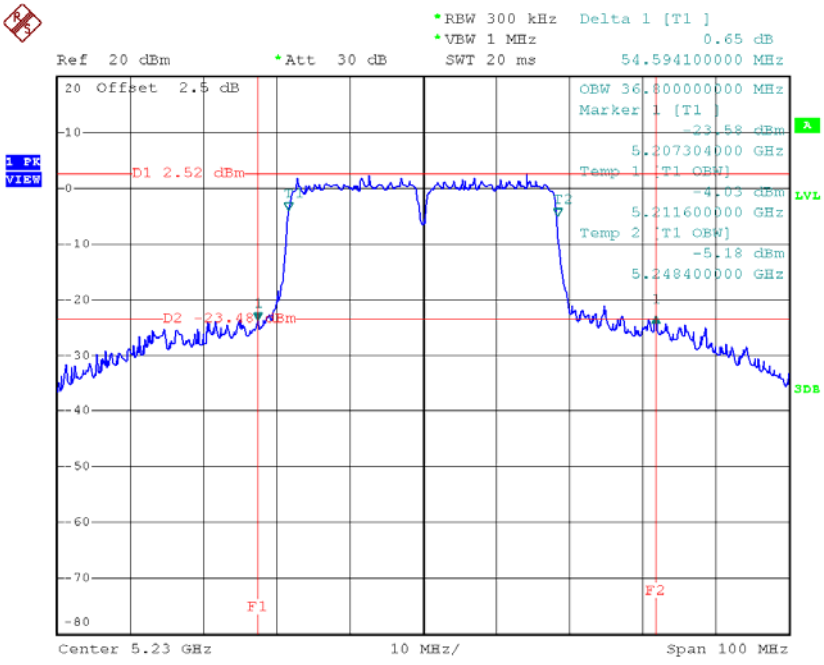
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH38	5190	64.59	36.80
CH46	5230	54.59	36.80

TX CH38



Date: 30.MAY.2016 16:08:15

TX CH46

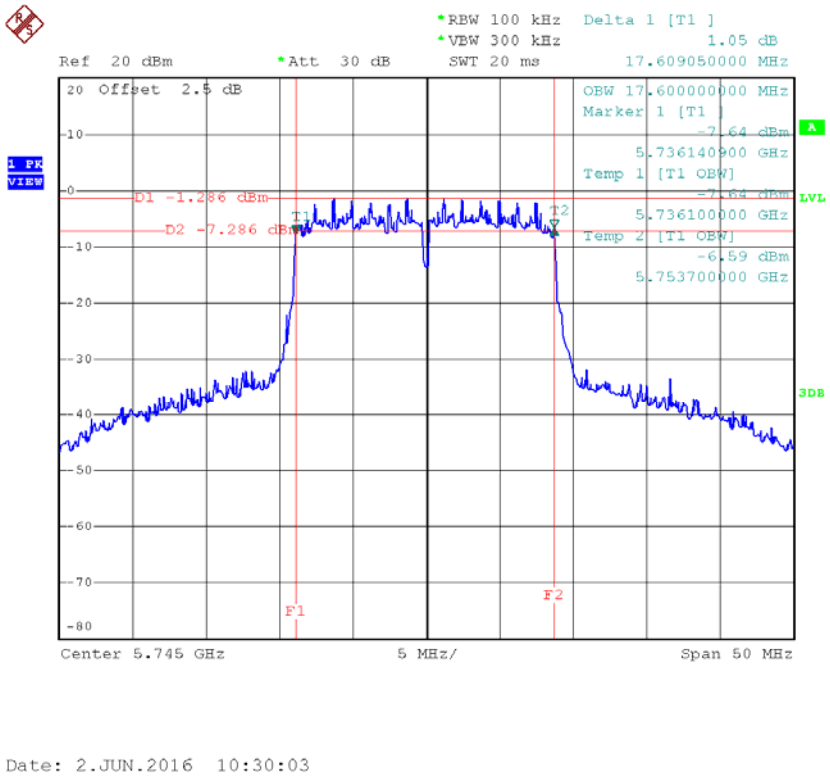


Date: 30.MAY.2016 16:12:11

Test Mode: UNII-3/ TX A Mode_CH149/CH157/CH165

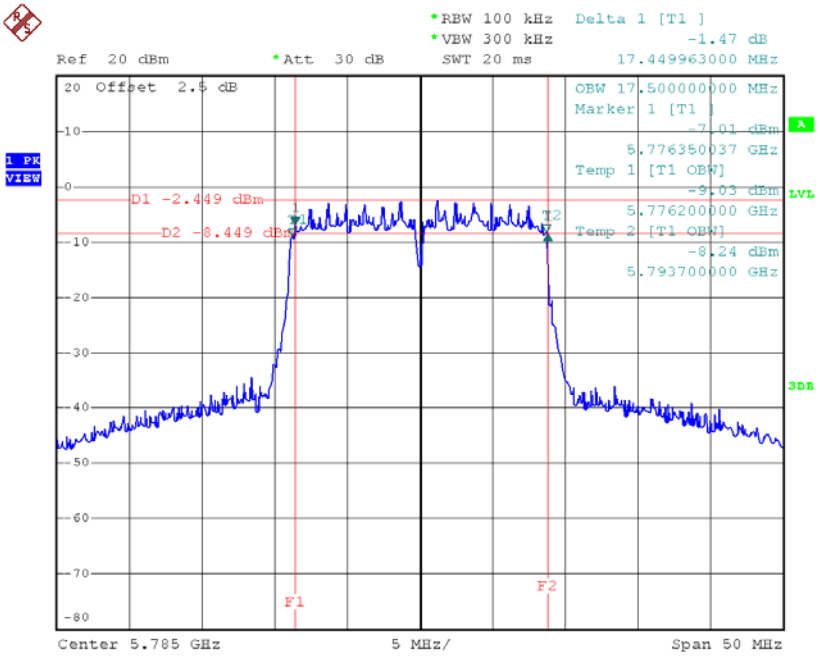
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	17.61	17.60	>=500
CH157	5785	17.45	17.50	>=500
CH165	5825	17.75	17.70	>=500

TX CH 149



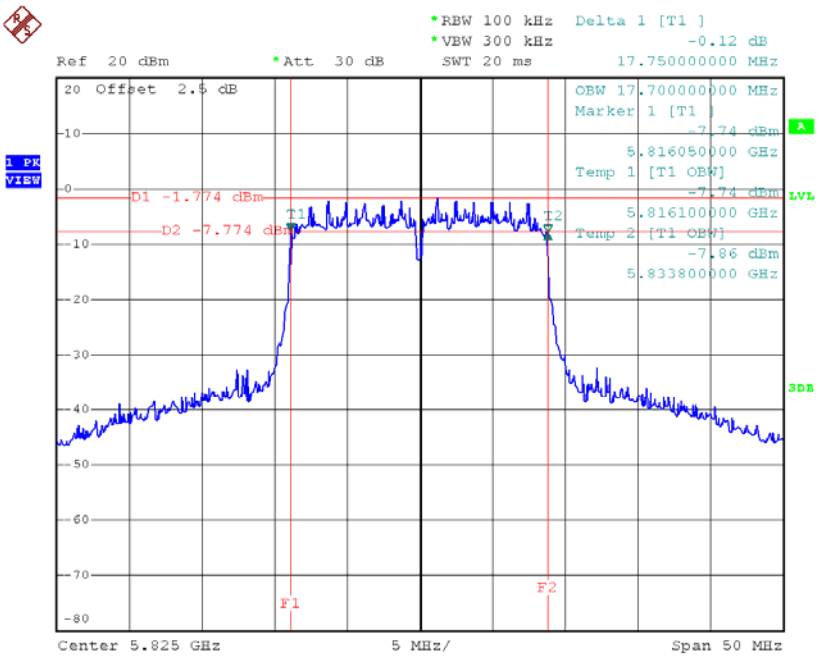
Date: 2.JUN.2016 10:30:03

TX CH 157



Date: 2.JUN.2016 10:31:55

TX CH 165

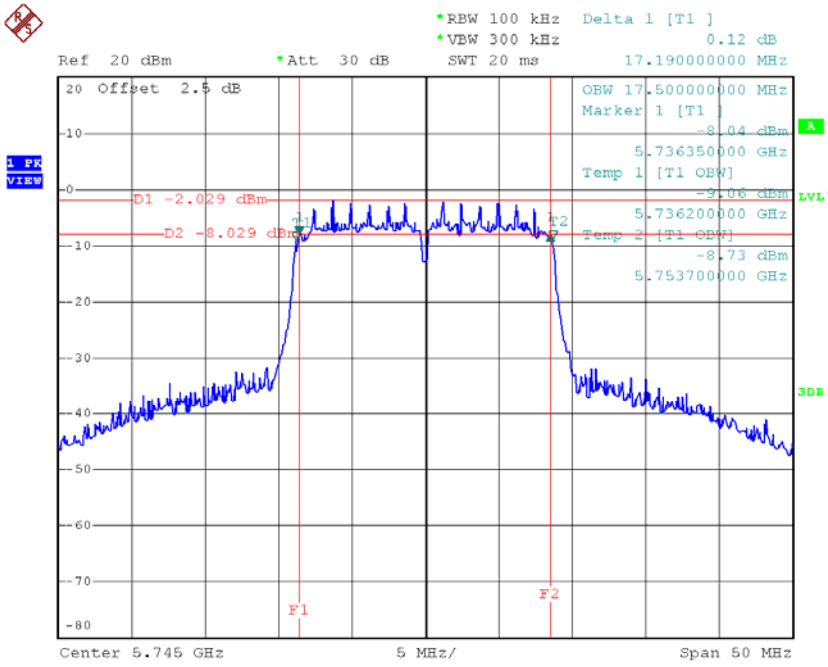


Date: 2.JUN.2016 10:32:51

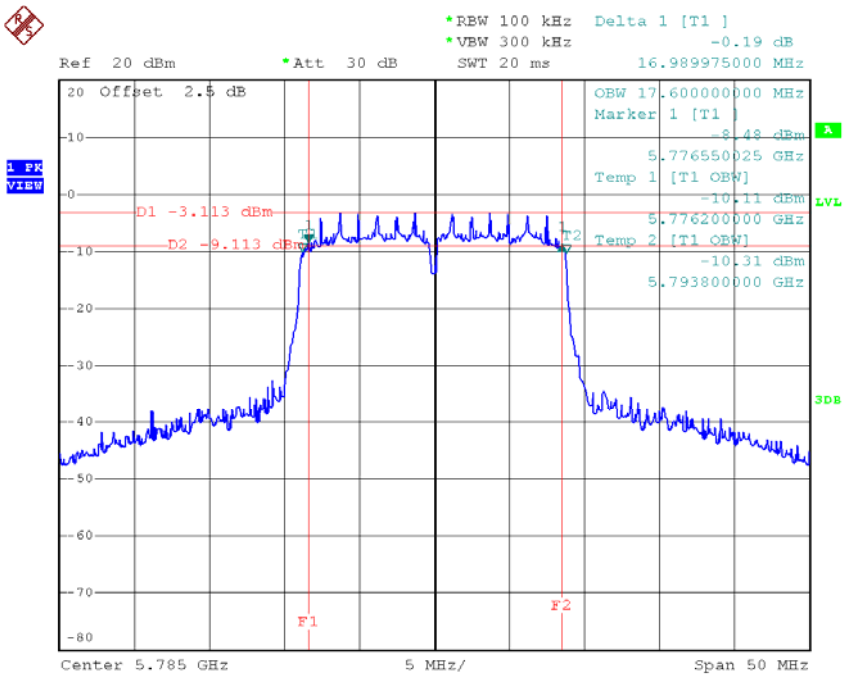
Test Mode: UNII-3/ TX N20 Mode_CH149/CH157/CH165				

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	17.19	17.50	>=500
CH157	5785	16.99	17.60	>=500
CH165	5825	16.89	17.50	>=500

TX CH 149

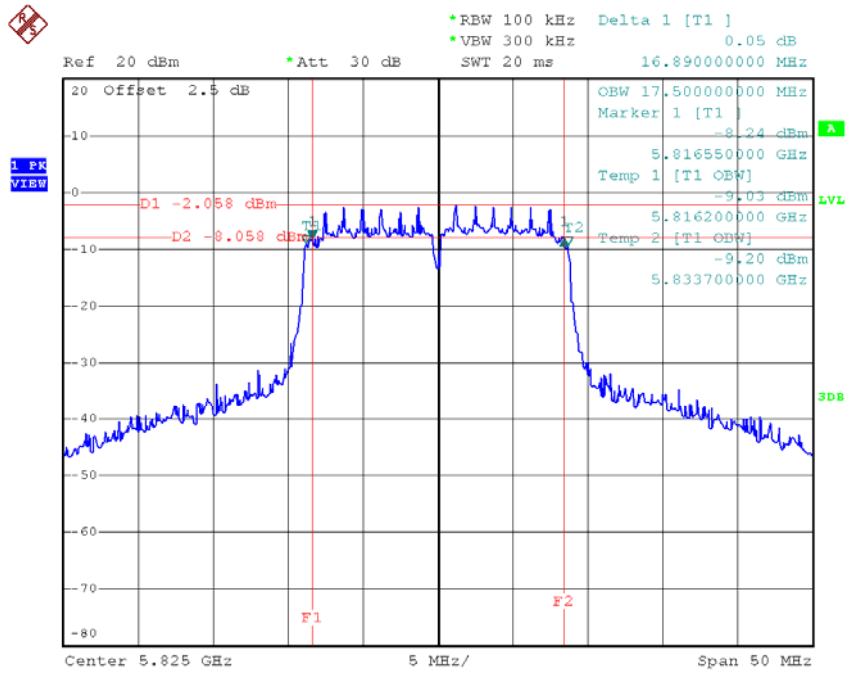


TX CH 157



Date: 2.JUN.2016 10:35:53

TX CH 165

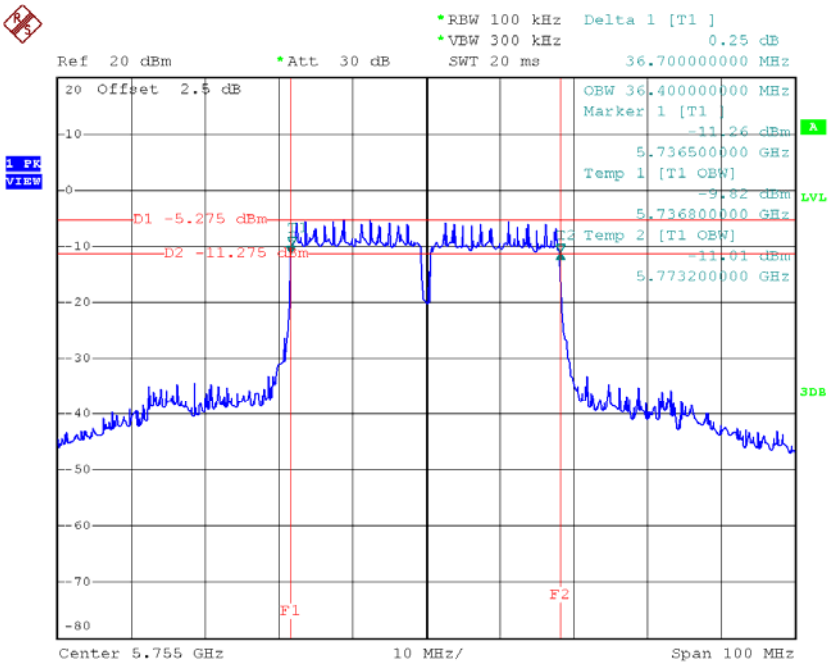


Date: 2.JUN.2016 10:36:58

Test Mode: UNII-3/ TX N40 Mode_CH151/CH159

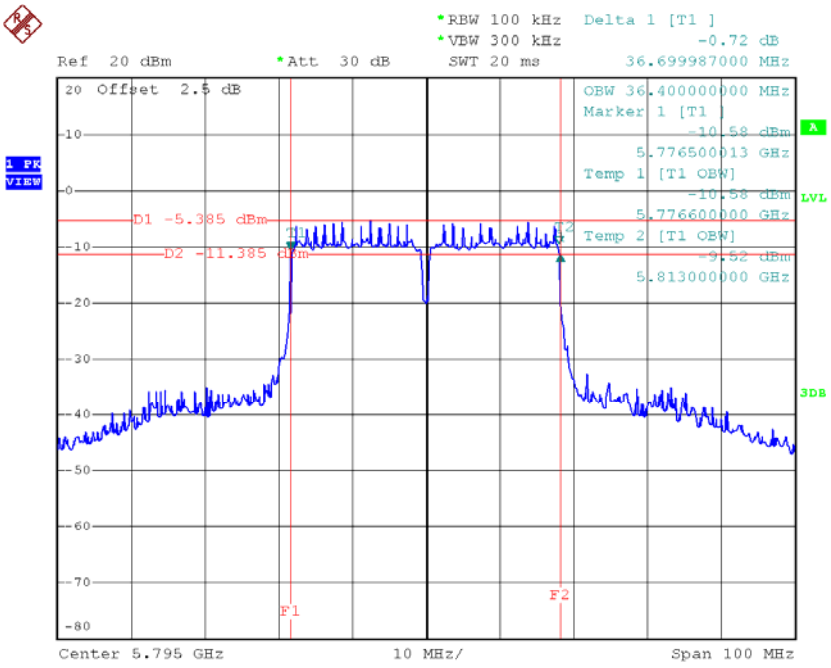
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH151	5755	36.70	36.40	>=500
CH159	5795	36.70	36.40	>=500

TX CH 151



Date: 2.JUN.2016 10:38:23

TX CH 159



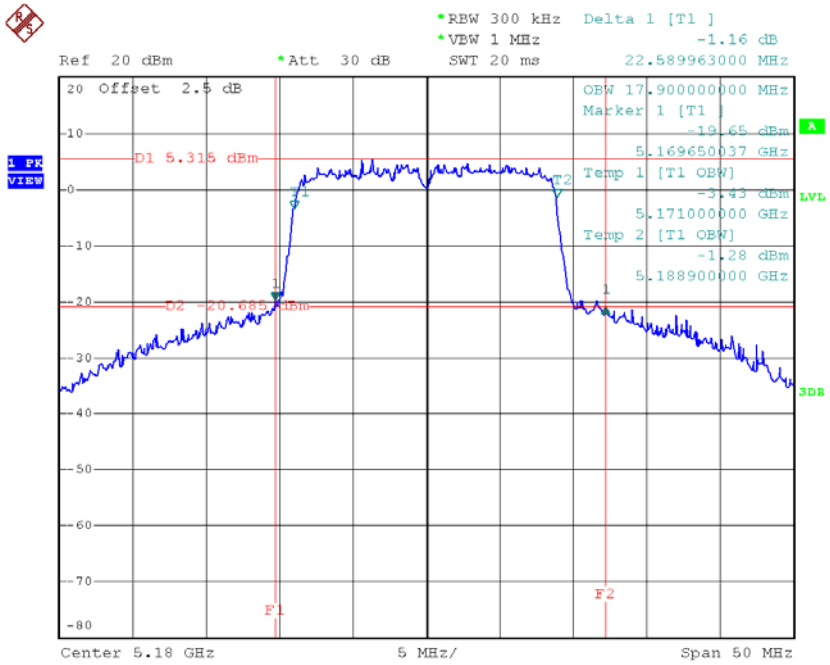
Date: 2.JUN.2016 10:39:22

For ANT 2

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

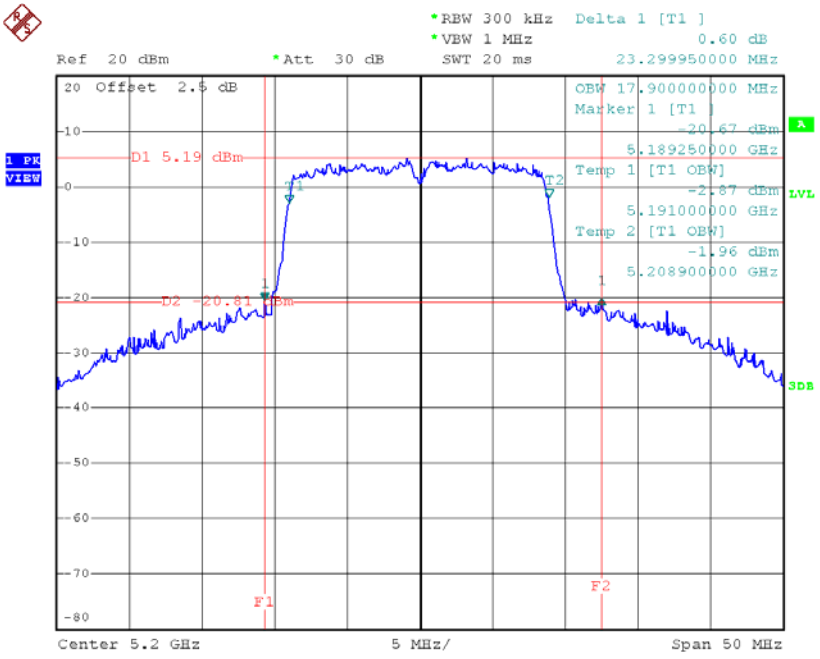
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	22.59	17.90
CH40	5200	23.30	17.90
CH48	5240	23.30	17.90

TX CH36



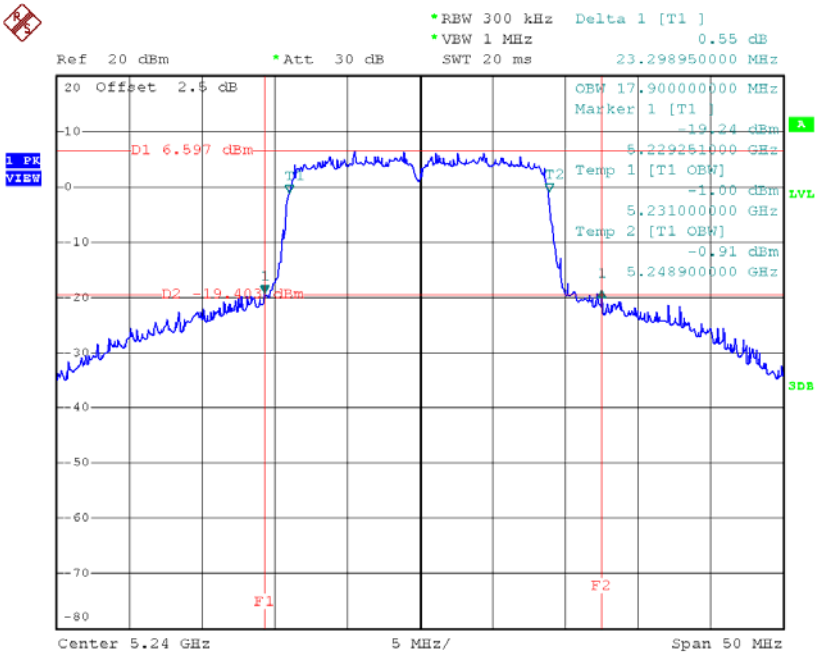
Date: 2.JUN.2016 10:46:56

TX CH40



Date: 2.JUN.2016 10:51:39

TX CH48

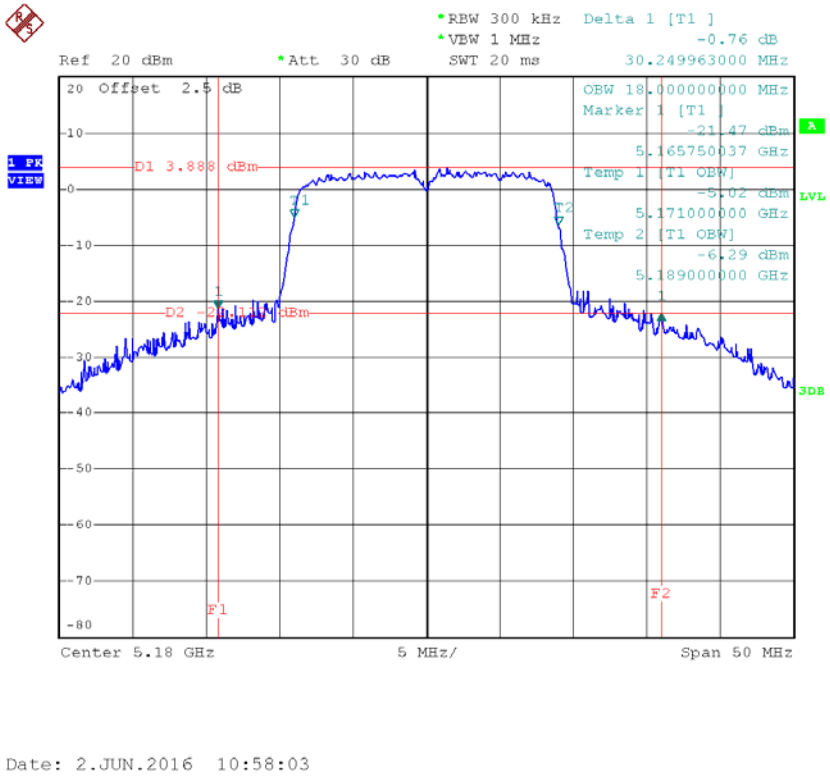


Date: 2.JUN.2016 10:52:35

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

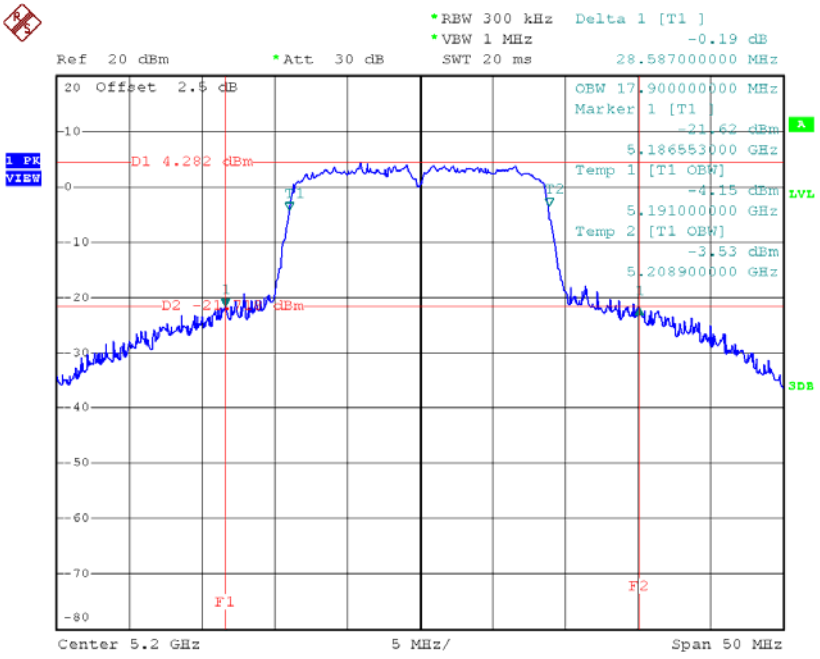
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	32.25	18.00
CH40	5200	28.59	17.90
CH48	5240	29.99	17.90

TX CH36



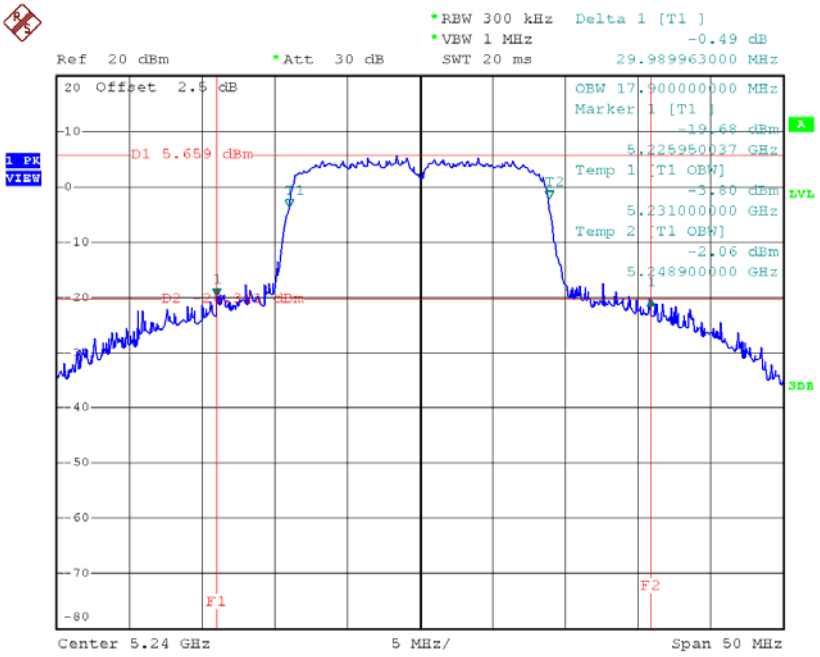
Date: 2.JUN.2016 10:58:03

TX CH40



Date: 2.JUN.2016 10:59:07

TX CH48

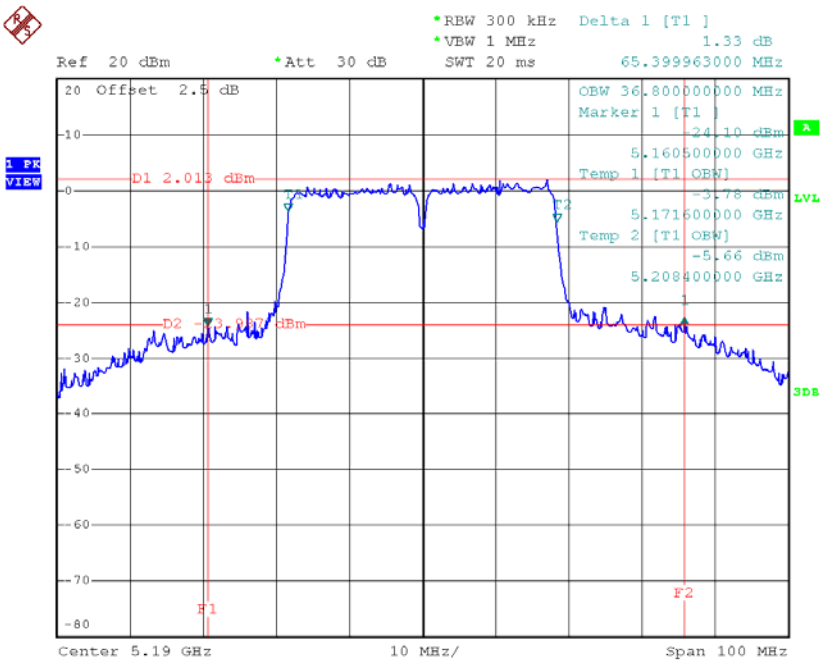


Date: 2.JUN.2016 11:01:36

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

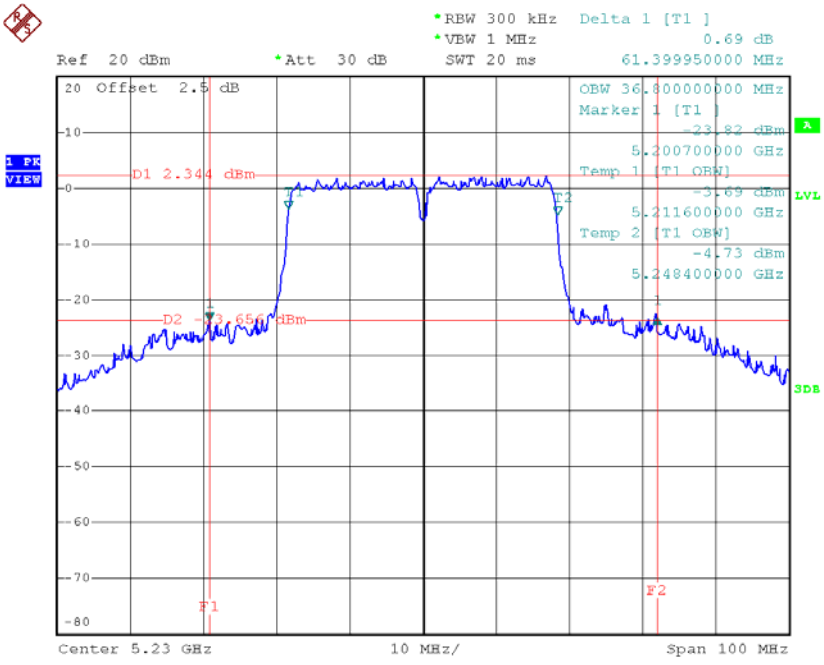
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH38	5190	65.40	36.80
CH46	5230	61.40	36.80

TX CH38



Date: 2.JUN.2016 11:11:48

TX CH46

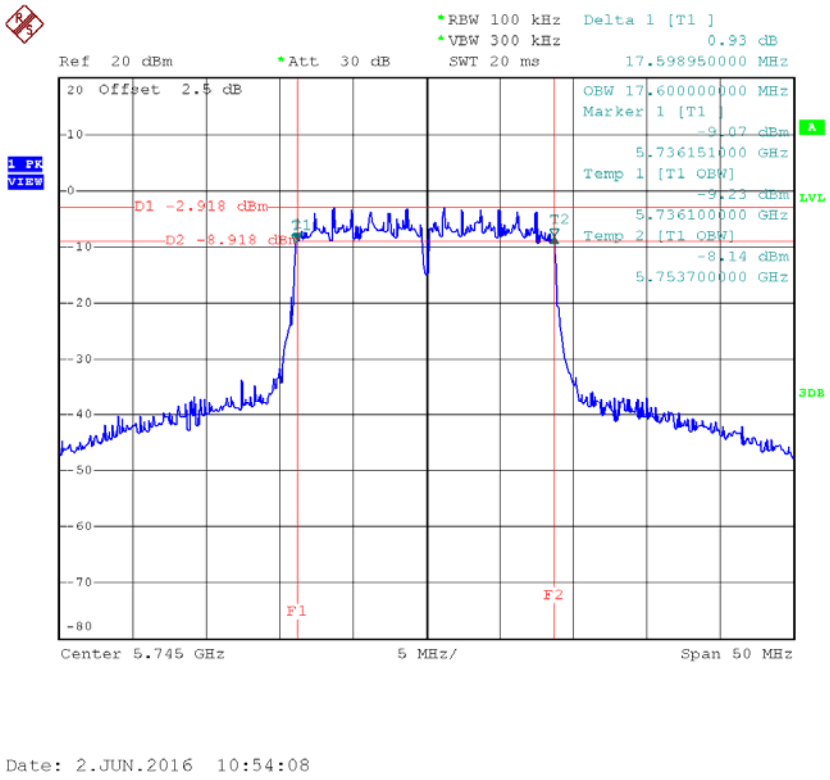


Date: 2.JUN.2016 11:13:02

Test Mode: UNII-3/ TX A Mode_CH149/CH157/CH165

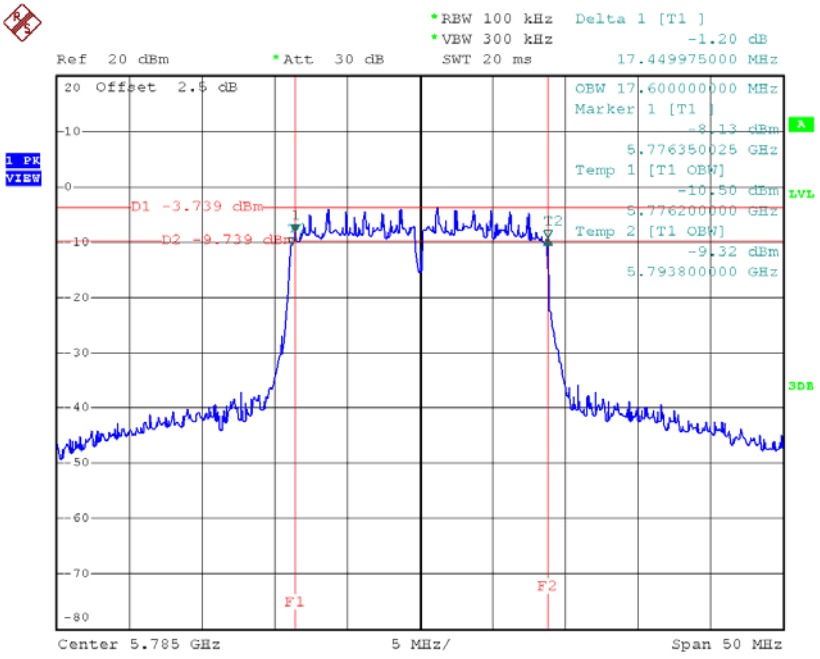
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	17.60	17.60	>=500
CH157	5785	17.45	17.60	>=500
CH165	5825	17.40	17.60	>=500

TX CH 149



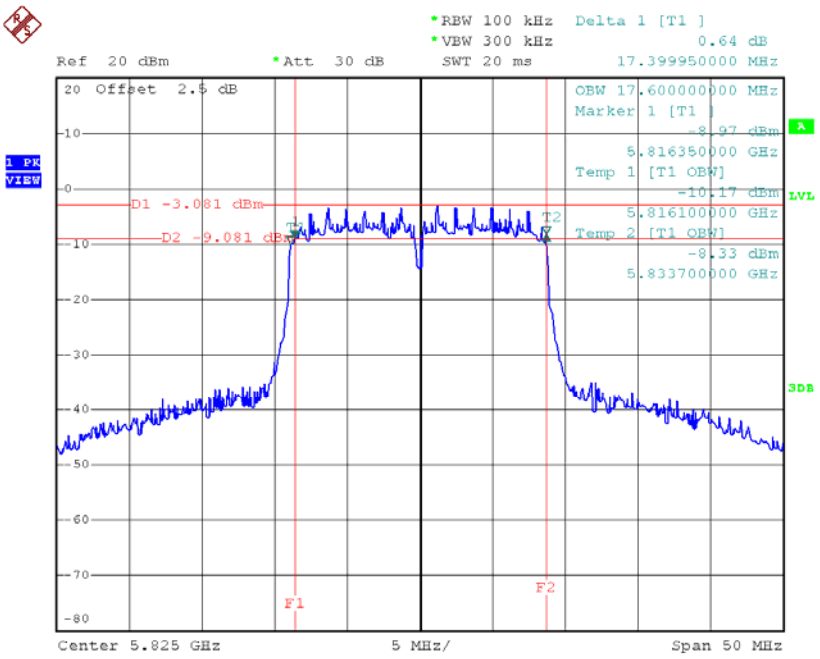
Date: 2.JUN.2016 10:54:08

TX CH 157



Date: 2.JUN.2016 10:55:51

TX CH 165

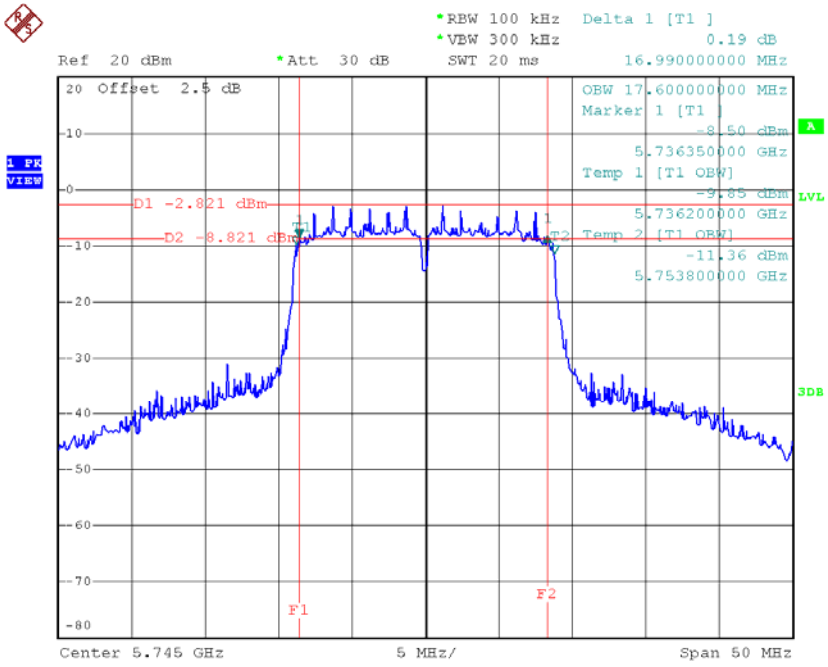


Date: 2.JUN.2016 10:56:47

Test Mode: UNII-3/ TX N20 Mode_CH149/CH157/CH165

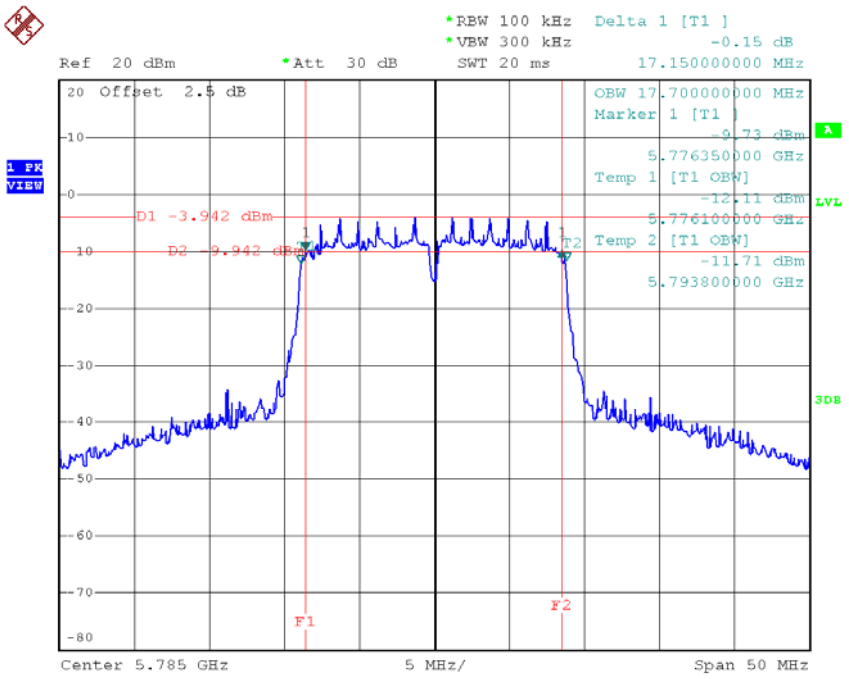
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	16.99	17.60	>=500
CH157	5785	17.15	17.70	>=500
CH165	5825	16.99	17.60	>=500

TX CH 149



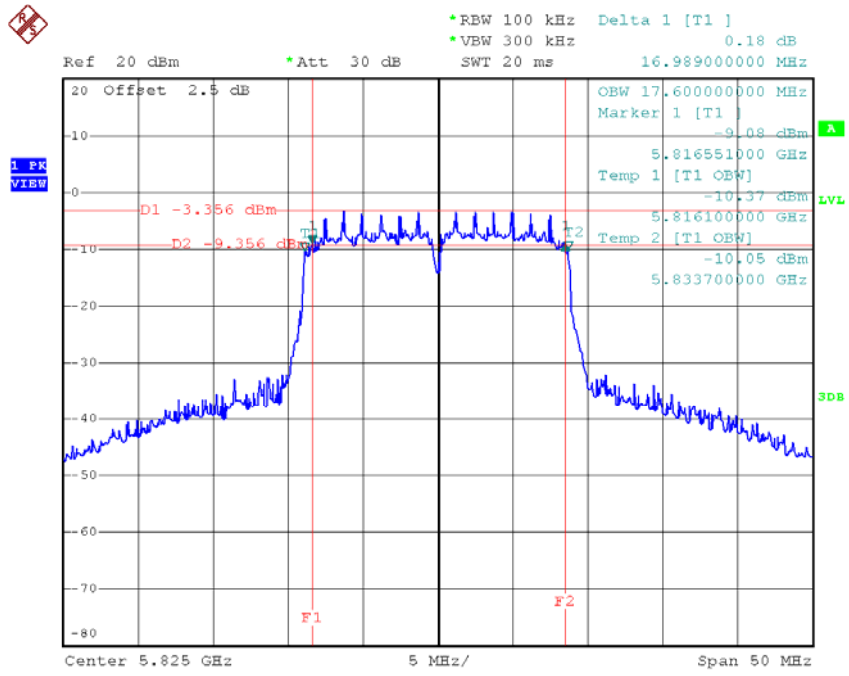
Date: 2.JUN.2016 11:02:47

TX CH 157



Date: 2.JUN.2016 11:03:50

TX CH 165

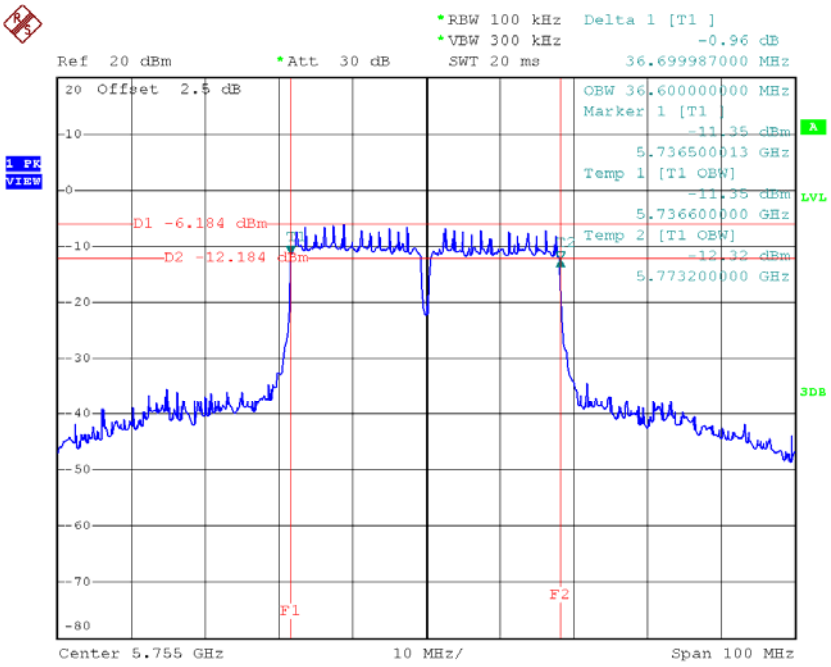


Date: 2.JUN.2016 11:10:32

Test Mode: UNII-3/ TX N40 Mode_CH151/CH159

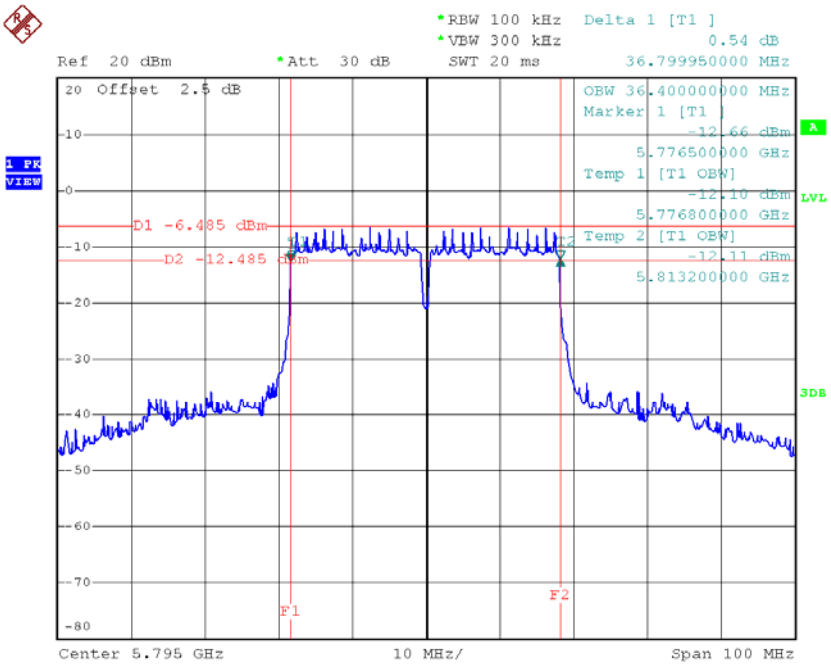
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH151	5755	36.70	36.60	>=500
CH159	5795	36.80	36.40	>=500

TX CH 151



Date: 2.JUN.2016 11:14:08

TX CH 159



Date: 2.JUN.2016 11:15:04

ATTACHMENT F - MAXIMUM OUTPUT POWER

For ANT 1

Test Mode: UNII-1/TX A Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	10.56	1.46	12.02	24.00	0.25
CH40	5200	13.84	1.46	15.30	24.00	0.25
CH48	5240	11.24	1.46	12.70	24.00	0.25

Test Mode: UNII-1/TX N20 Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	11.42	0.26	11.68	24.00	0.25
CH40	5200	14.49	0.26	14.75	24.00	0.25
CH48	5240	12.26	0.26	12.52	24.00	0.25

Test Mode: UNII-1/TX N40 Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	14.27	1.04	15.31	24.00	0.25
CH46	5230	14.35	1.04	15.39	24.00	0.25

Test Mode: UNII-3/ TX A Mode						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	9.84	1.46	11.30	30.00	1.00
CH157	5785	9.10	1.46	10.56	30.00	1.00
CH165	5825	10.17	1.46	11.63	30.00	1.00

Test Mode: UNII-3/TX N20 Mode						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	10.00	0.26	10.26	30.00	1.00
CH157	5785	8.20	0.26	8.46	30.00	1.00
CH165	5825	8.02	0.26	8.28	30.00	1.00

Test Mode: UNII-3/ TX N40 Mode						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	9.44	1.04	10.48	30.00	1.00
CH159	5795	8.54	1.04	9.58	30.00	1.00

Test Mode: UNII-1/TX A Mode

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	12.02	-0.6	11.42	23.00	0.20
CH40	5200	15.30	-0.6	14.70	23.00	0.20
CH48	5240	12.70	-0.6	12.10	23.00	0.20

Test Mode: UNII-1/TX N20 Mode

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	11.68	-0.6	11.08	23.00	0.20
CH40	5200	14.75	-0.6	14.15	23.00	0.20
CH48	5240	12.52	-0.6	11.92	23.00	0.20

Test Mode: UNII-1/TX N40 Mode

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	15.31	-0.6	14.71	23.00	0.20
CH46	5230	15.39	-0.6	14.79	23.00	0.20

Test Mode: UNII-3/ TX A Mode						
Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	11.30	-0.6	10.70	36.00	4.00
CH157	5785	10.56	-0.6	9.96	36.00	4.00
CH165	5825	11.63	-0.6	11.03	36.00	4.00

Test Mode: UNII-3/TX N20 Mode						
Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	10.26	-0.6	9.66	36.00	4.00
CH157	5785	8.46	-0.6	7.86	36.00	4.00
CH165	5825	8.28	-0.6	7.68	36.00	4.00

Test Mode: UNII-3/ TX N40 Mode						
Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	10.48	-0.6	9.88	36.00	4.00
CH159	5795	9.58	-0.6	8.98	36.00	4.00

For ANT 2

Test Mode: UNII-1/TX A Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	12.39	1.14	13.53	24.00	0.25
CH40	5200	14.42	1.14	15.56	24.00	0.25
CH48	5240	13.17	1.14	14.31	24.00	0.25

Test Mode: UNII-1/TX N20 Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	13.19	0.23	13.42	24.00	0.25
CH40	5200	14.23	0.23	14.46	24.00	0.25
CH48	5240	13.98	0.23	14.21	24.00	0.25

Test Mode: UNII-1/TX N40 Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	14.49	0.64	15.13	24.00	0.25
CH46	5230	14.44	0.64	15.08	24.00	0.25

Test Mode: UNII-3/ TX A Mode						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	7.04	1.14	8.18	30.00	1.00
CH157	5785	6.01	1.14	7.15	30.00	1.00
CH165	5825	6.59	1.14	7.73	30.00	1.00

Test Mode: UNII-3/TX N20 Mode						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	7.50	0.23	7.73	30.00	1.00
CH157	5785	6.37	0.23	6.60	30.00	1.00
CH165	5825	6.91	0.23	7.14	30.00	1.00

Test Mode: UNII-3/ TX N40 Mode						
Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power + Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	7.03	0.64	7.67	30.00	1.00
CH159	5795	6.80	0.64	7.44	30.00	1.00

Test Mode: UNII-1/TX A Mode						
Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	13.53	-0.43	13.10	23.00	0.20
CH40	5200	15.56	-0.43	15.13	23.00	0.20
CH48	5240	14.31	-0.43	13.88	23.00	0.20

Test Mode: UNII-1/TX N20 Mode						
Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH36	5180	13.42	-0.43	12.99	23.00	0.20
CH40	5200	14.46	-0.43	14.03	23.00	0.20
CH48	5240	14.21	-0.43	13.78	23.00	0.20

Test Mode: UNII-1/TX N40 Mode						
Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH38	5190	15.13	-0.43	14.70	23.00	0.20
CH46	5230	15.08	-0.43	14.65	23.00	0.20

Test Mode: UNII-3/ TX A Mode

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	8.18	-0.43	7.75	36.00	4.00
CH157	5785	7.15	-0.43	6.72	36.00	4.00
CH165	5825	7.73	-0.43	7.30	36.00	4.00

Test Mode: UNII-3/TX N20 Mode

Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH149	5745	7.73	-0.43	7.30	36.00	4.00
CH157	5785	6.60	-0.43	6.17	36.00	4.00
CH165	5825	7.14	-0.43	6.71	36.00	4.00

Test Mode: UNII-3/ TX N40 Mode

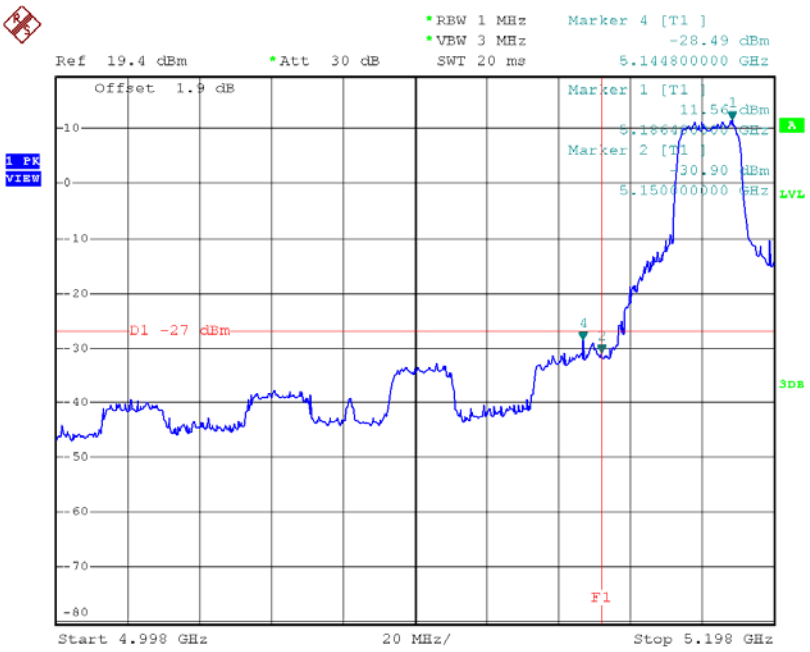
Channel	Frequency (MHz)	Output Power + Duty Factor (dBm)	Antenna Gain (dBi)	RSS-247 EIRP Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	7.67	-0.43	7.24	36.00	4.00
CH159	5795	7.44	-0.43	7.01	36.00	4.00

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

For ANT 1

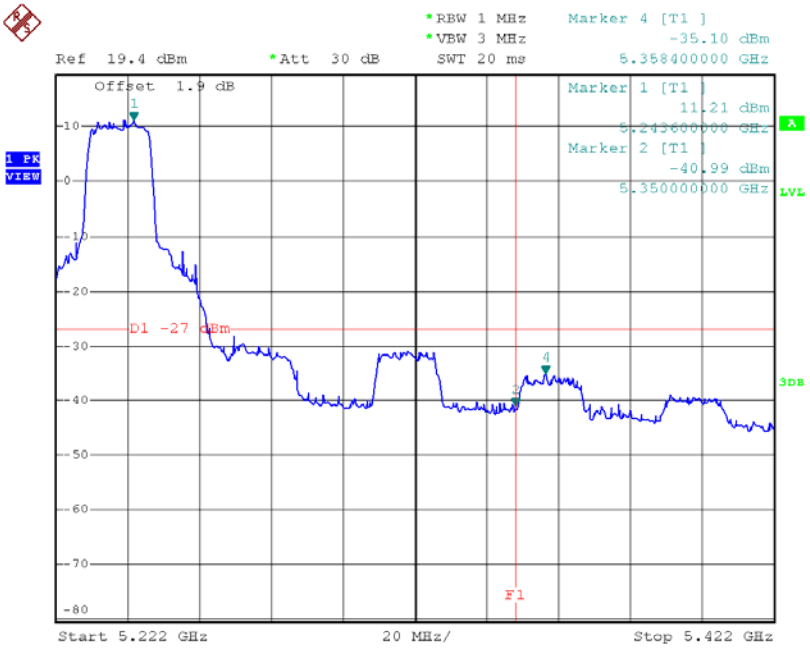
Test Mode:	UNII-1/TX A Mode

TX mode CH36



Date: 30.MAY.2016 15:48:41

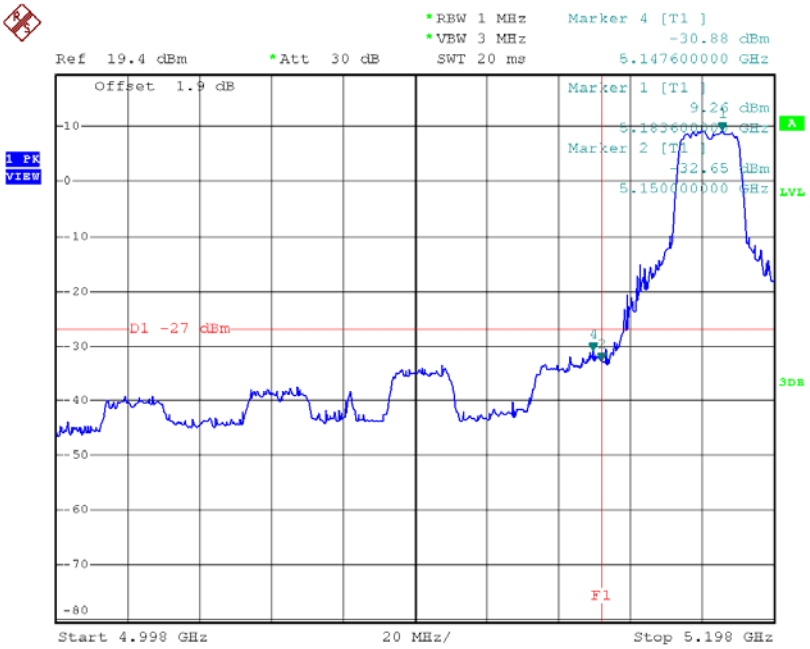
TX mode CH48



Date: 30.MAY.2016 15:52:21

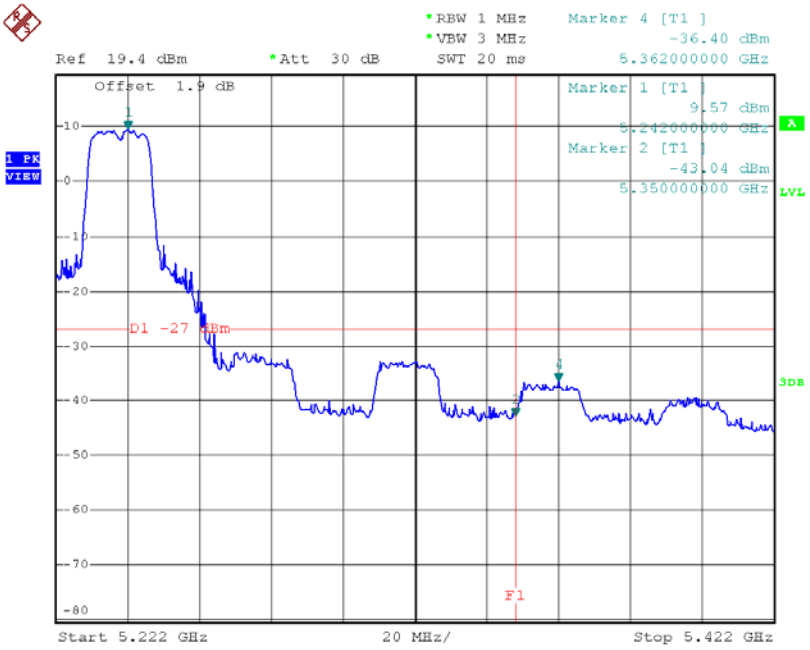
Test Mode:	UNII-1/TX N20 Mode

TX mode CH36



Date: 30.MAY.2016 16:04:57

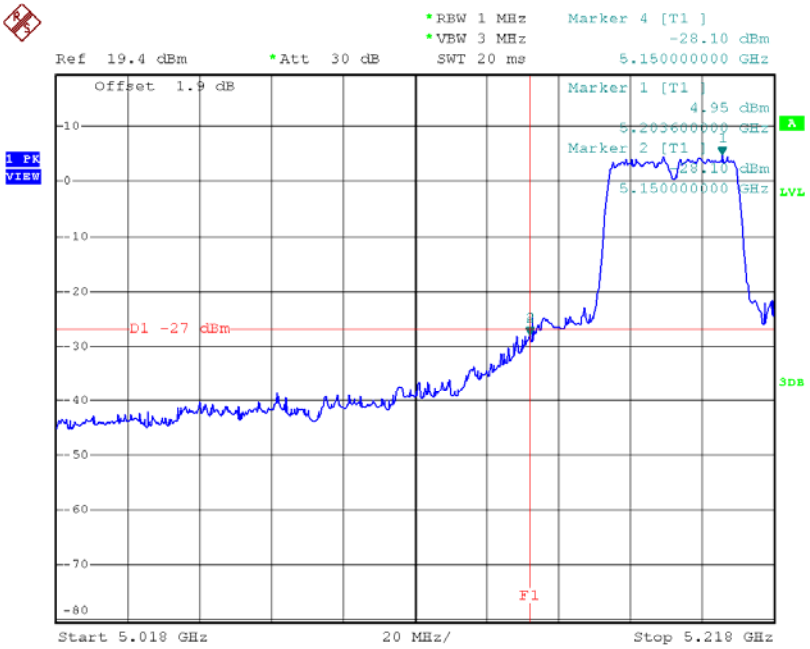
TX mode CH48



Date: 30.MAY.2016 16:06:58

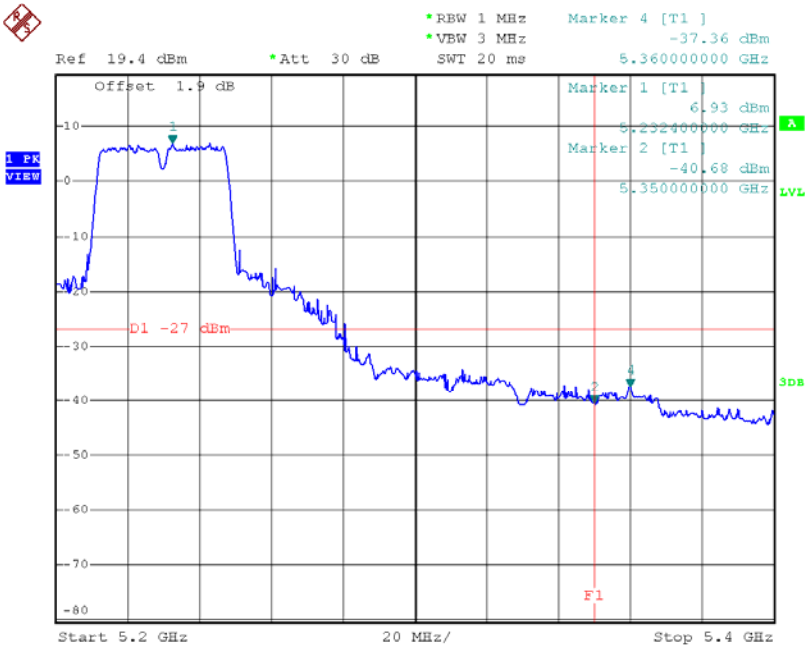
Test Mode:	UNII-1/TX N40 Mode

TX mode CH38



Date: 30.MAY.2016 16:10:34

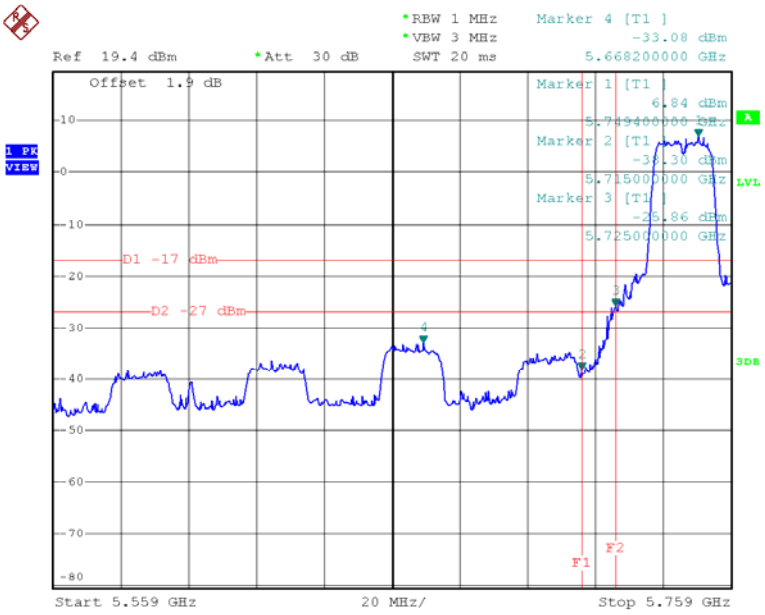
TX mode CH46



Date: 30.MAY.2016 16:12:28

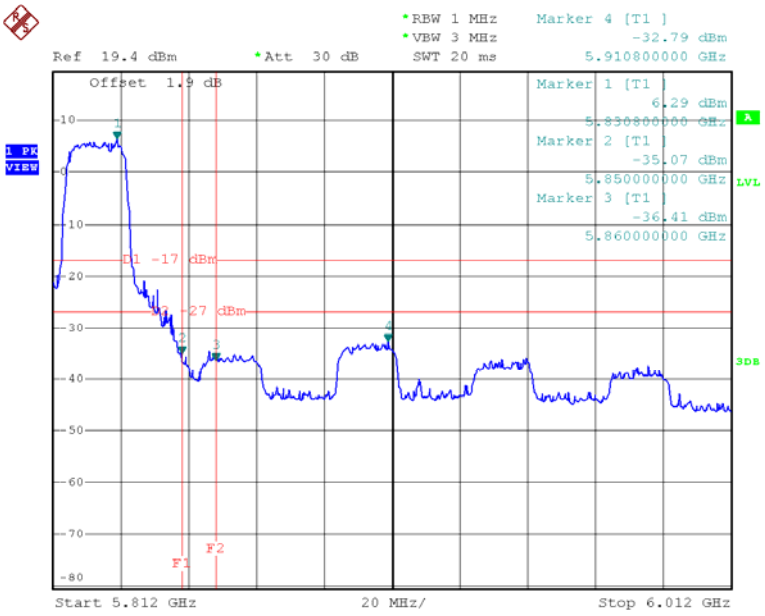
Test Mode:	UNII-3/TX A Mode

TX A Mode CH149



Date: 2.JUN.2016 10:30:11

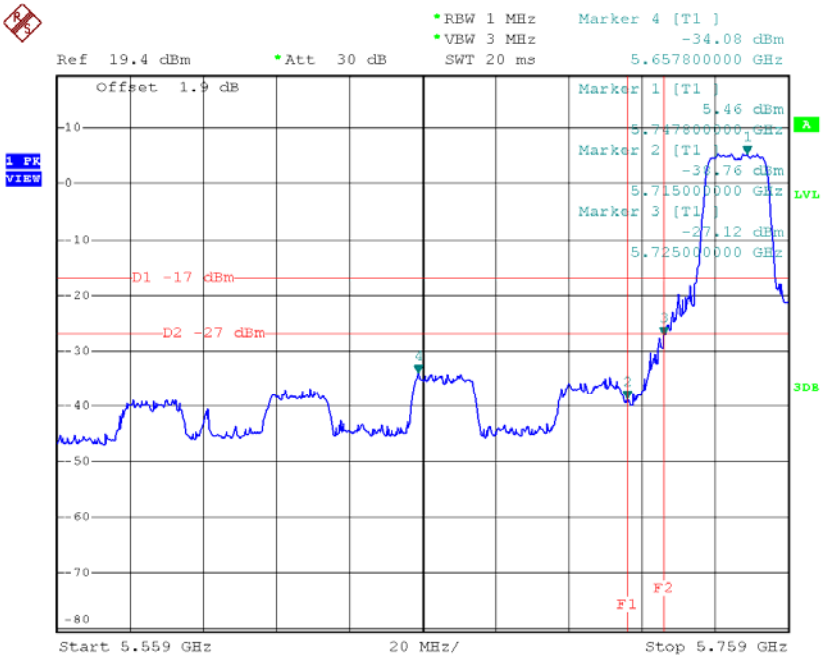
TX A Mode CH165



Date: 2.JUN.2016 10:33:08

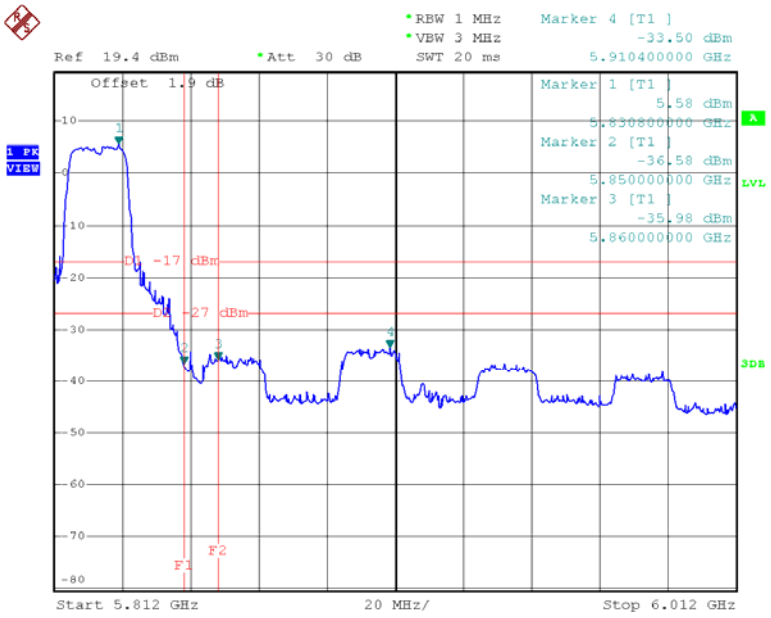
Test Mode:	UNII-3/TX N20 Mode

TX HT20 mode CH149



Date: 2.JUN.2016 10:34:32

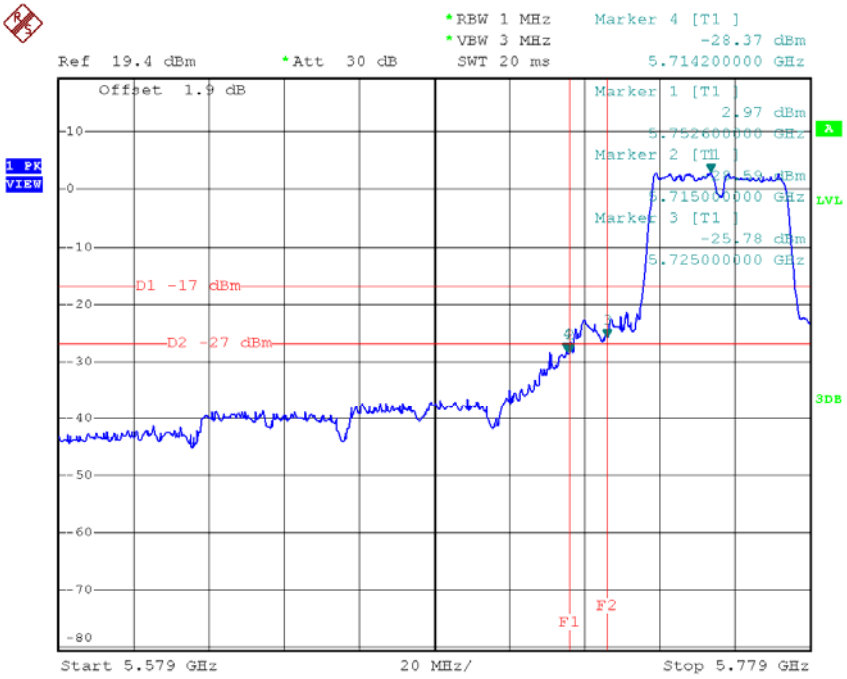
TX HT20 mode CH165



Date: 2.JUN.2016 10:37:16

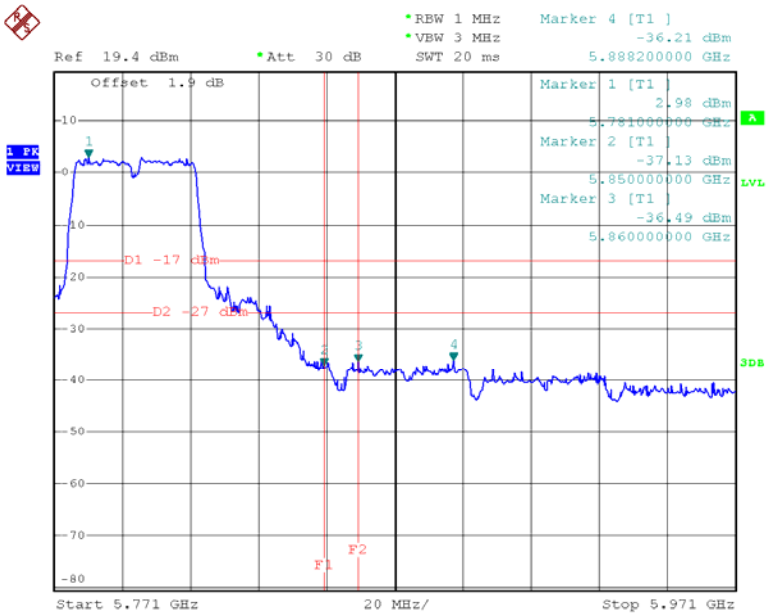
Test Mode:	UNII-3/TX N40 Mode

UNII-3/TX HT40 mode CH151



Date: 2.JUN.2016 10:38:40

UNII-3/TX HT40 mode CH159

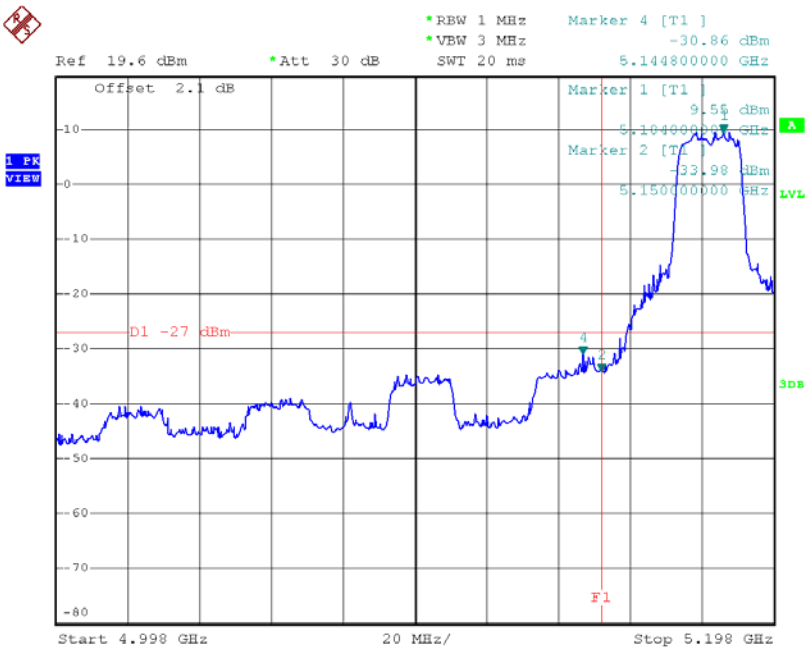


Date: 2.JUN.2016 10:39:39

For ANT 2

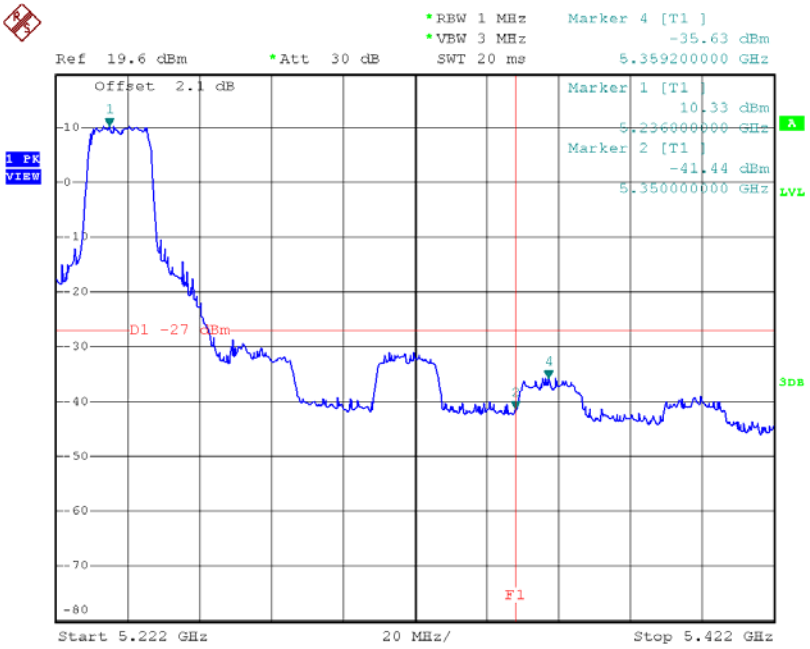
Test Mode:	UNII-1/TX A Mode

TX mode CH36



Date: 2.JUN.2016 10:47:14

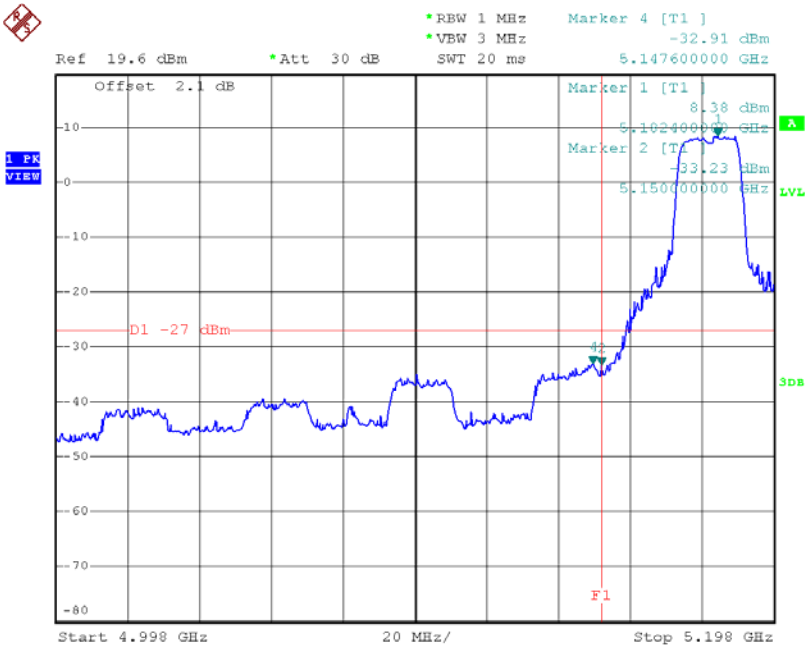
TX mode CH48



Date: 2.JUN.2016 10:52:52

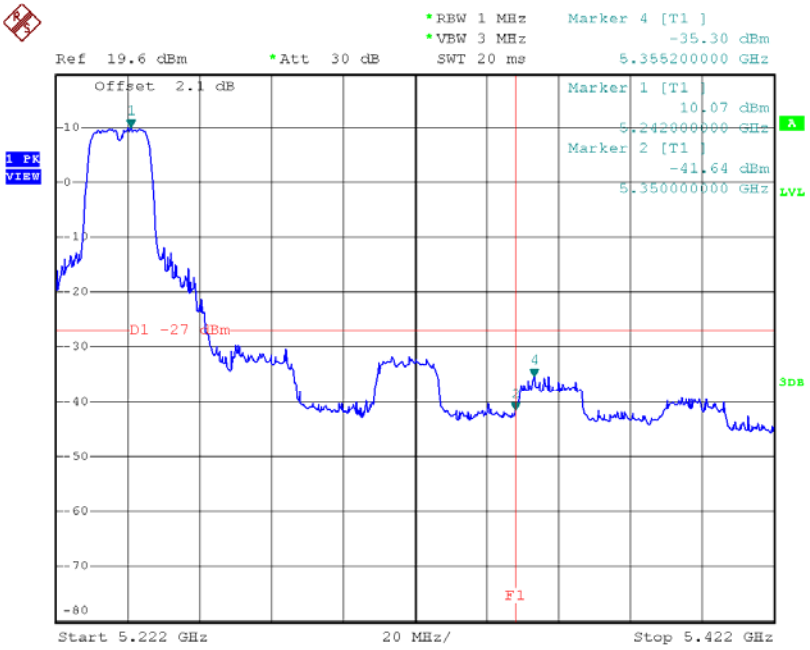
Test Mode:	UNII-1/TX N20 Mode

TX mode CH36



Date: 2.JUN.2016 10:58:21

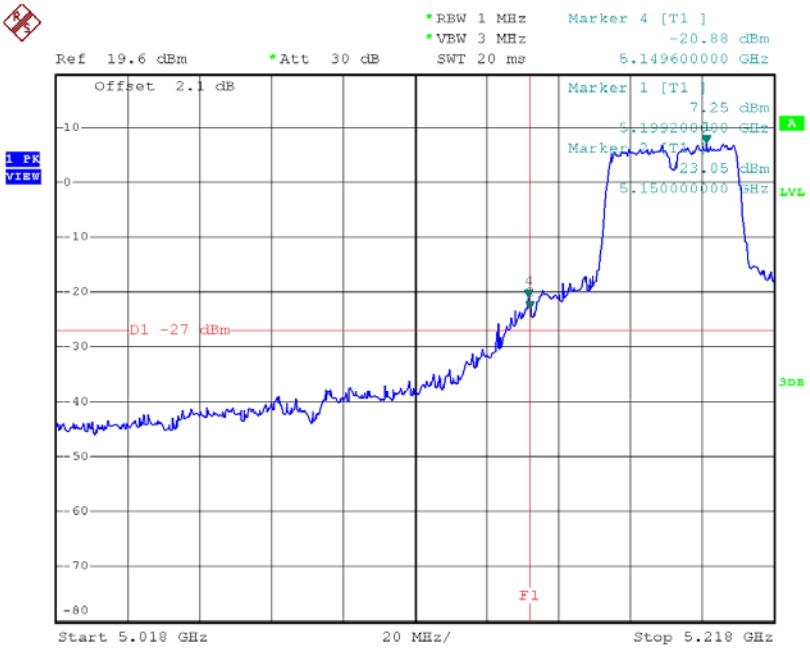
TX mode CH48



Date: 2.JUN.2016 11:01:53

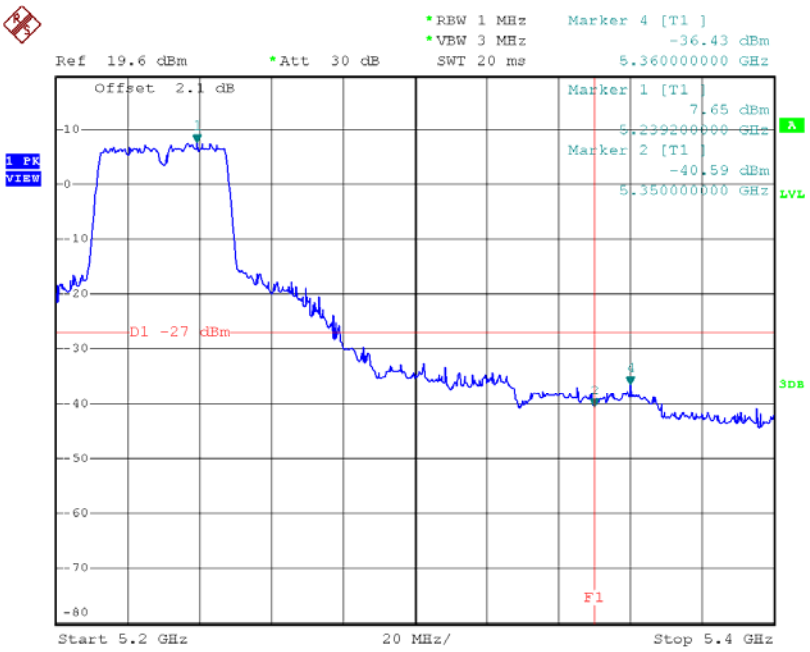
Test Mode:	UNII-1/TX N40 Mode

TX mode CH38



Date: 2.JUN.2016 11:12:05

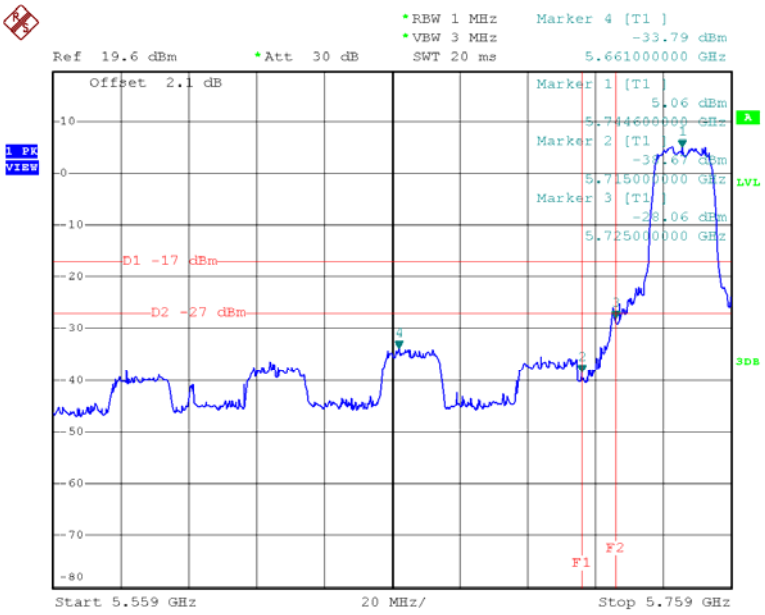
TX mode CH46



Date: 2.JUN.2016 11:13:19

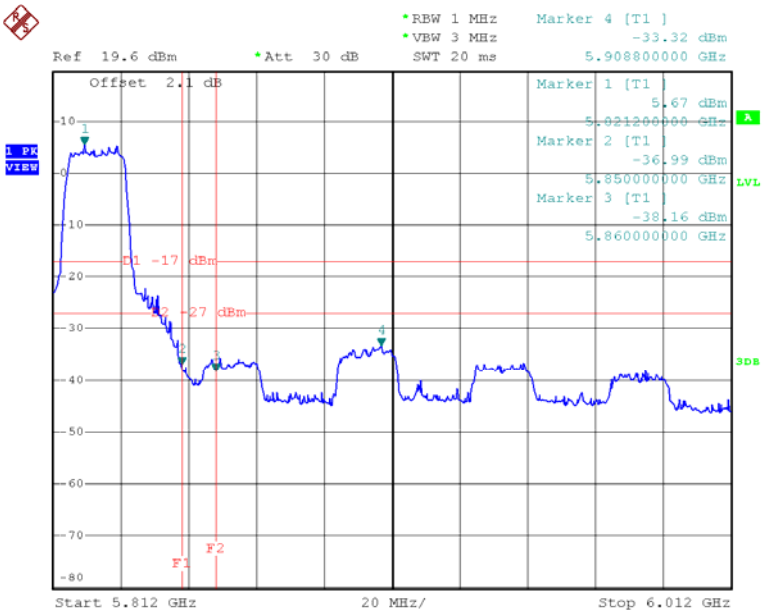
Test Mode:	UNII-3/TX A Mode

TX A Mode CH149



Date: 2.JUN.2016 10:54:16

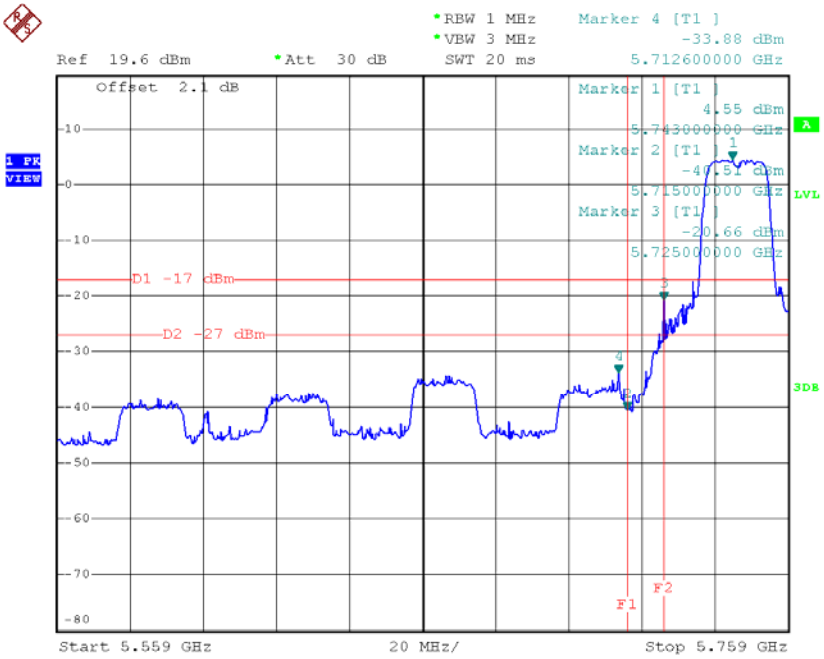
TX A Mode CH165



Date: 2.JUN.2016 10:57:05

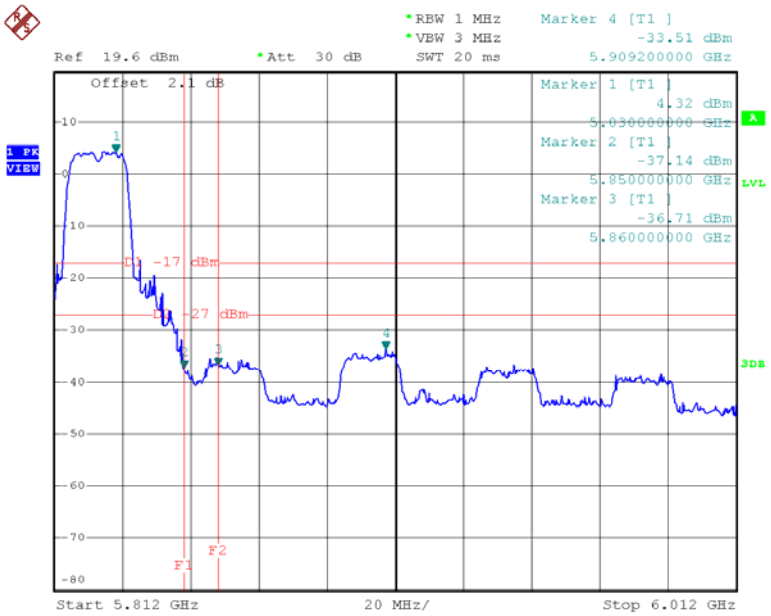
Test Mode:	UNII-3/TX N20 Mode

TX HT20 mode CH149



Date: 2.JUN.2016 11:03:05

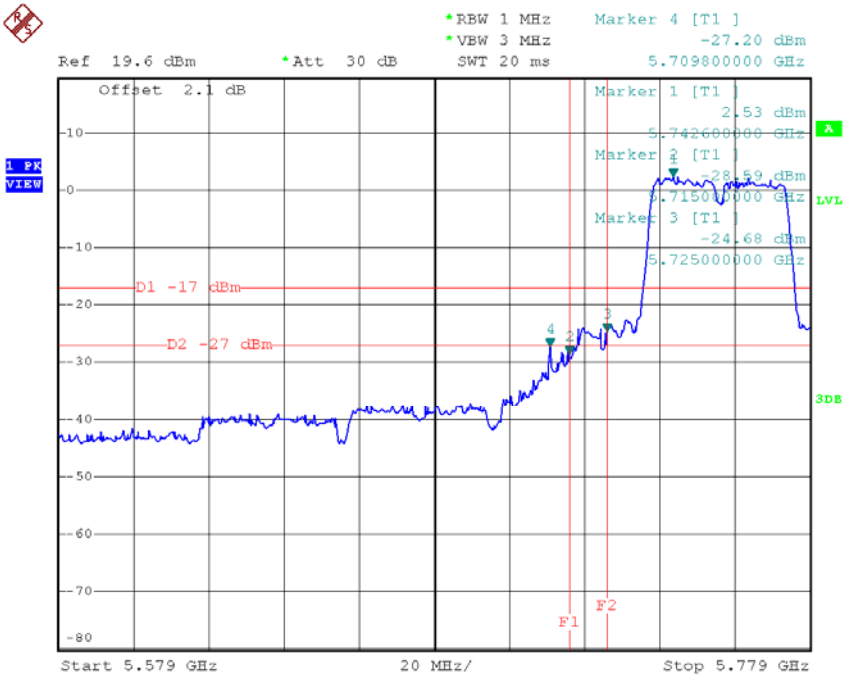
TX HT20 mode CH165



Date: 2.JUN.2016 11:10:50

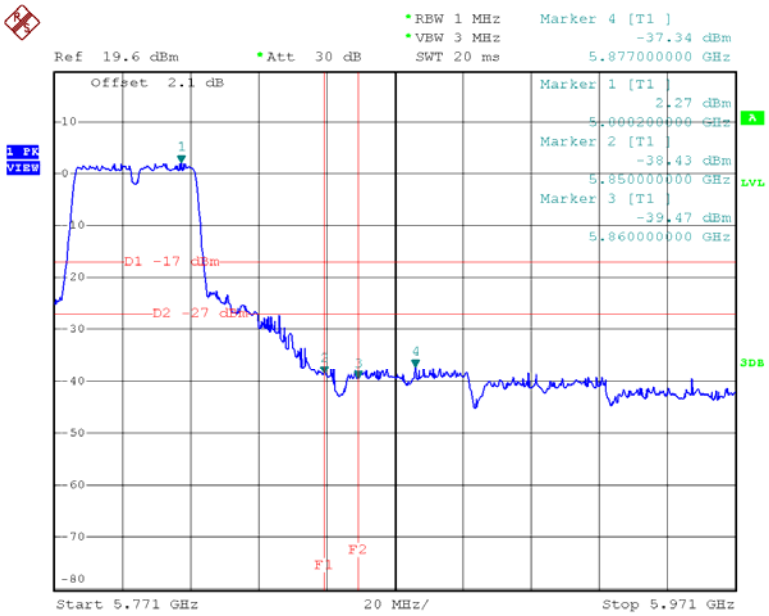
Test Mode:	UNII-3/TX N40 Mode

UNII-3/TX HT40 mode CH151



Date: 2.JUN.2016 11:14:25

UNII-3/TX HT40 mode CH159



Date: 2.JUN.2016 11:15:22

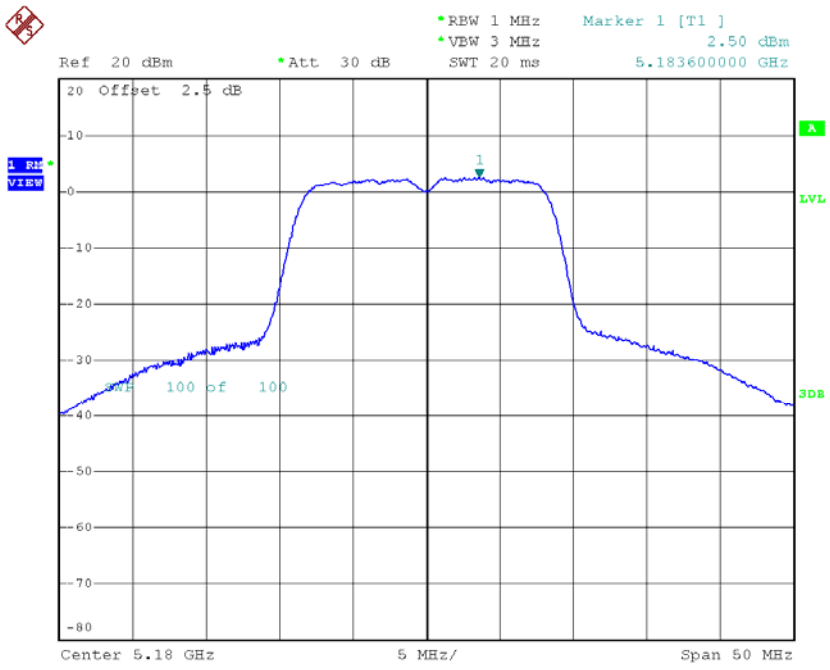
ATTACHMENT H - POWER SPECTRAL DENSITY

For ANT 1

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

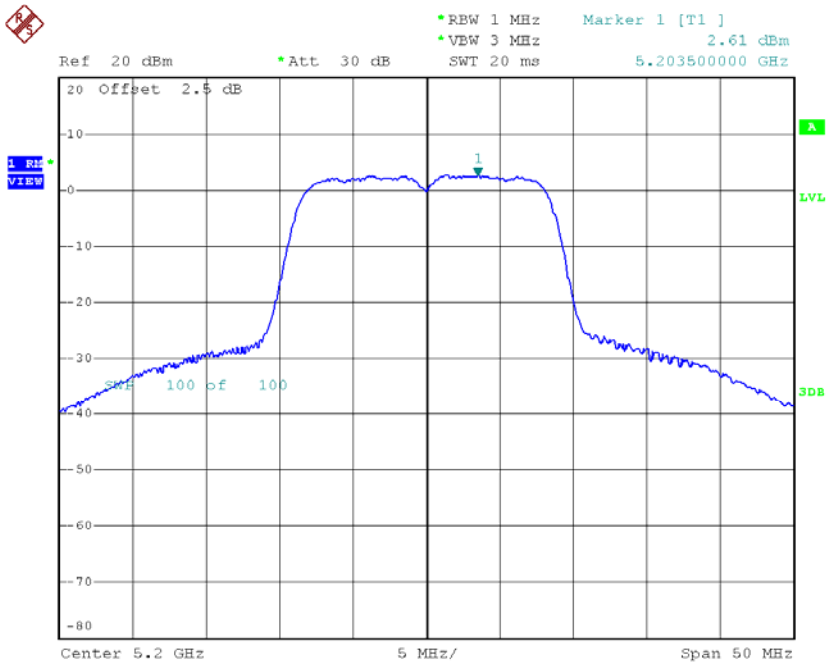
Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	2.50	1.46	3.96	11.00
CH40	5200	2.61	1.46	4.07	11.00
CH48	5240	2.05	1.46	3.51	11.00

CH36



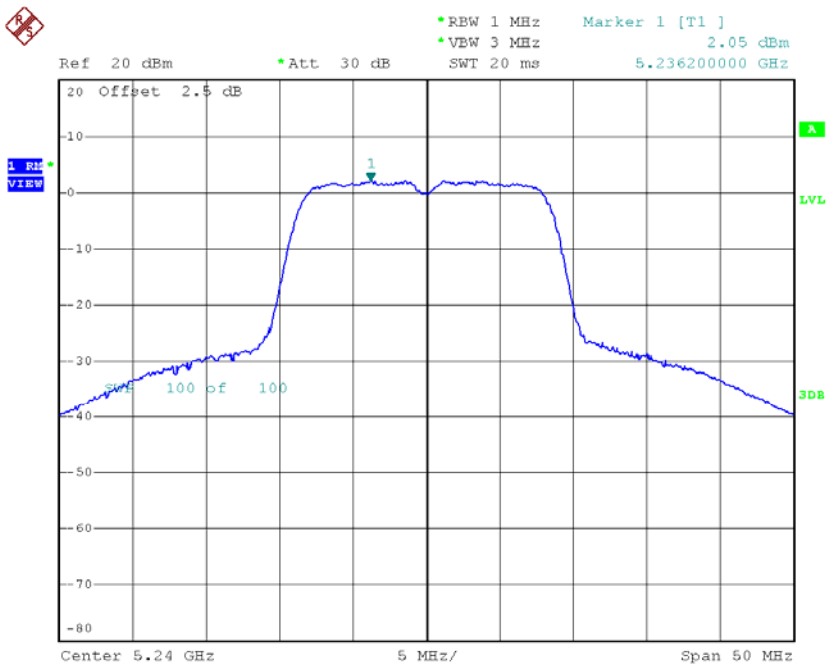
Date: 30.MAY.2016 15:48:32

CH40



Date: 30.MAY.2016 15:50:39

CH48

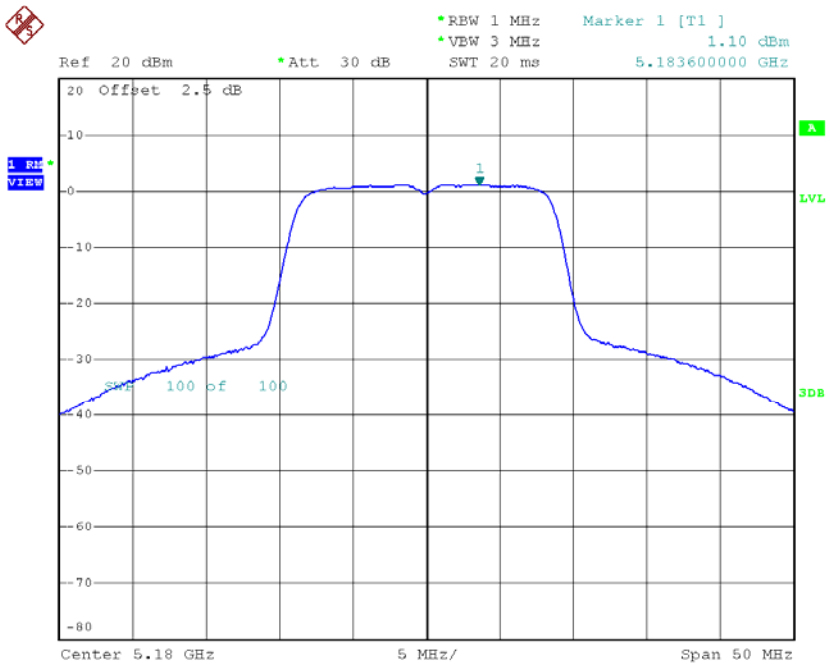


Date: 30.MAY.2016 15:52:13

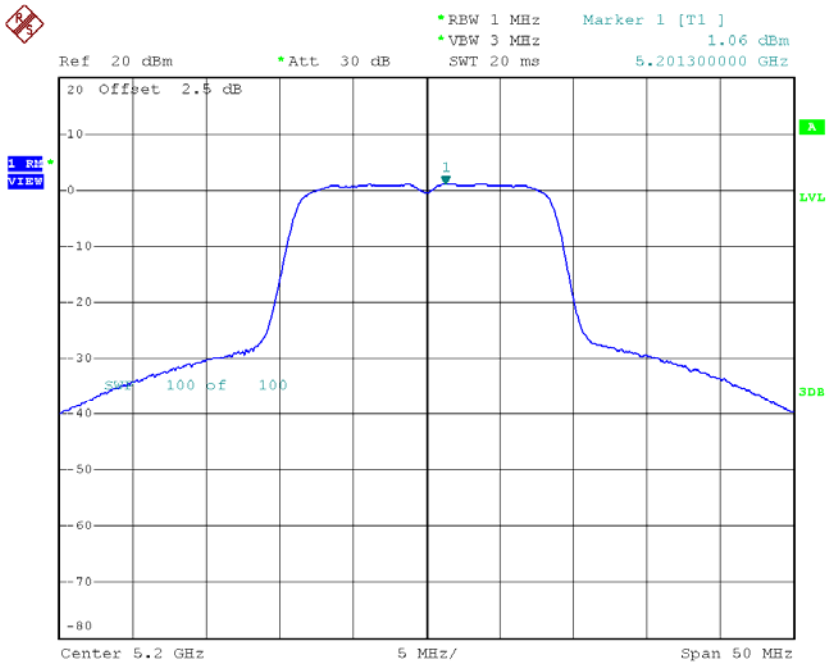
Test Mode: UNII-1/TX N20 Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	1.10	0.26	1.36	11.00
CH40	5200	1.06	0.26	1.32	11.00
CH48	5240	1.15	0.26	1.41	11.00

CH36

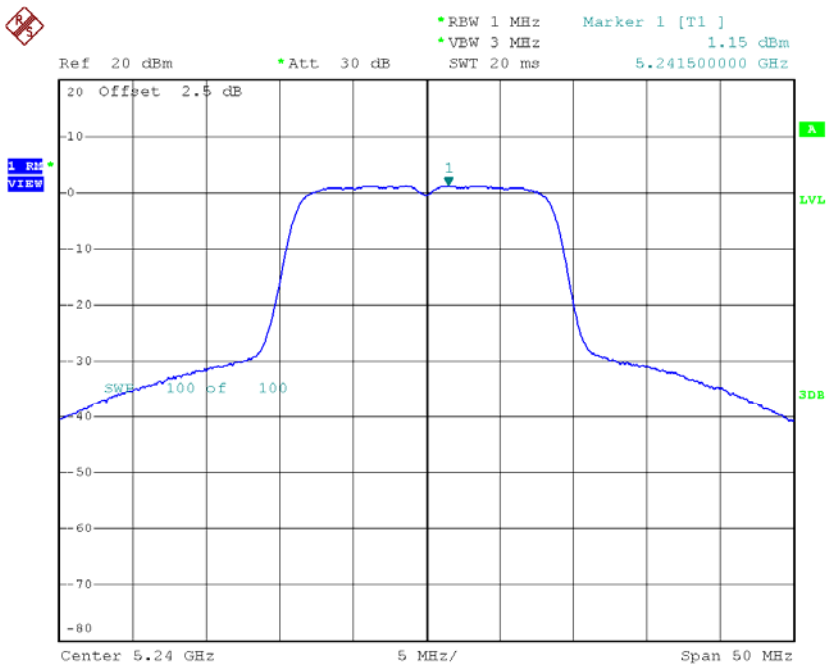


CH40



Date: 30.MAY.2016 16:05:49

CH48

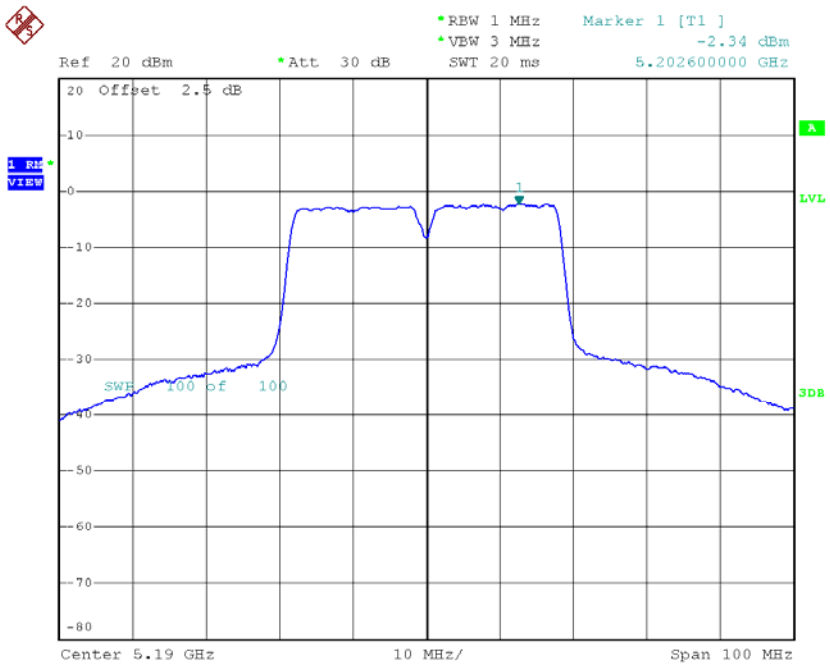


Date: 30.MAY.2016 16:06:51

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

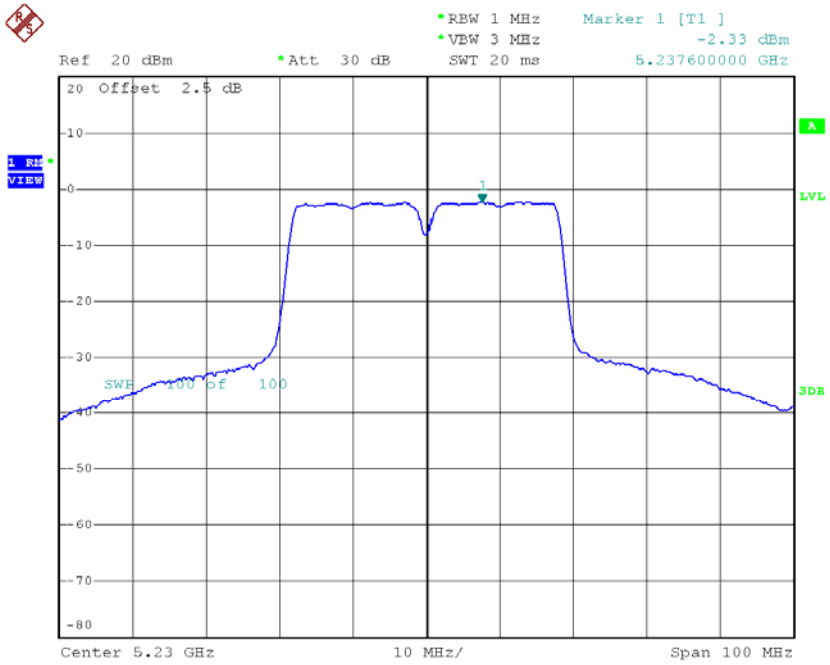
Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH38	5190	-2.34	1.04	-1.30	11.00
CH46	5230	-2.33	1.04	-1.29	11.00

CH38



Date: 30.MAY.2016 16:08:24

CH46

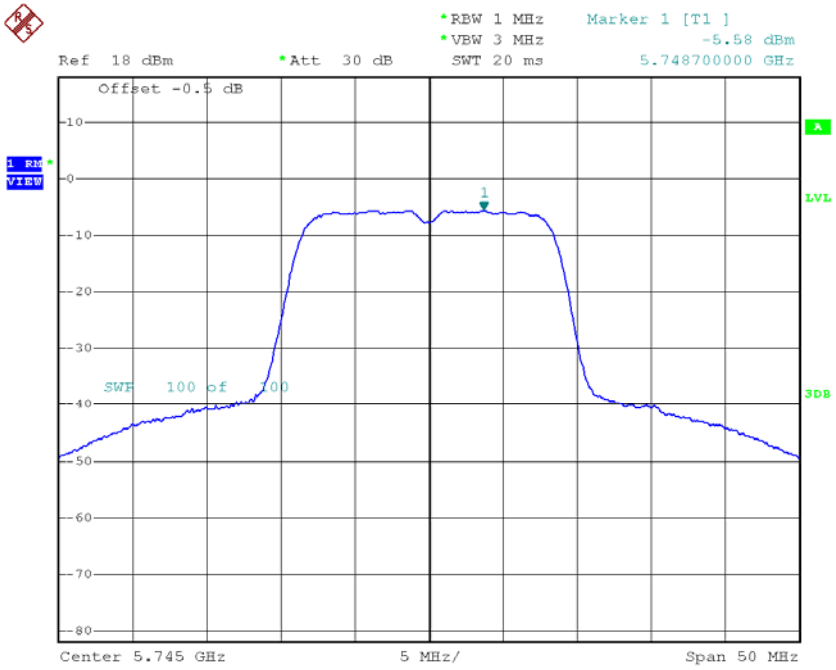


Date: 30.MAY.2016 16:12:21

Test Mode: UNII-3/TX A Mode_CH149/CH157/CH165

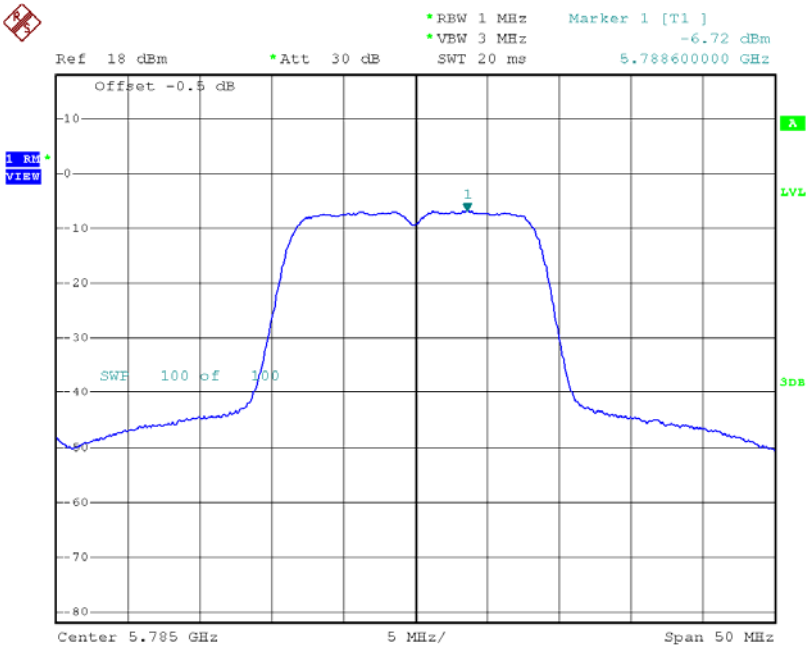
Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	-5.58	1.46	-4.12	30.00
CH157	5785	-6.72	1.46	-5.26	30.00
CH165	5825	-6.17	1.46	-4.71	30.00

TX CH149



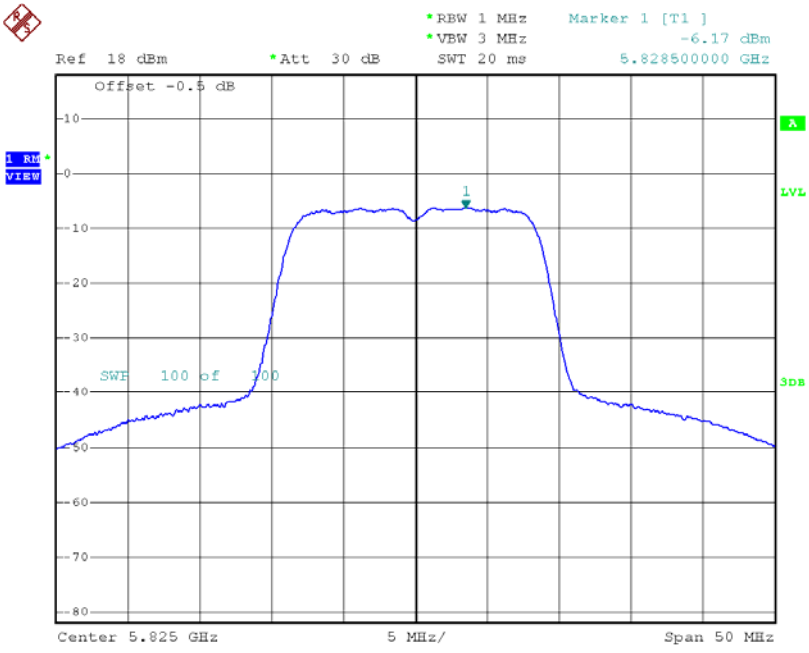
Date: 2.JUN.2016 10:29:32

TX CH157



Date: 2.JUN.2016 10:32:05

TX CH165

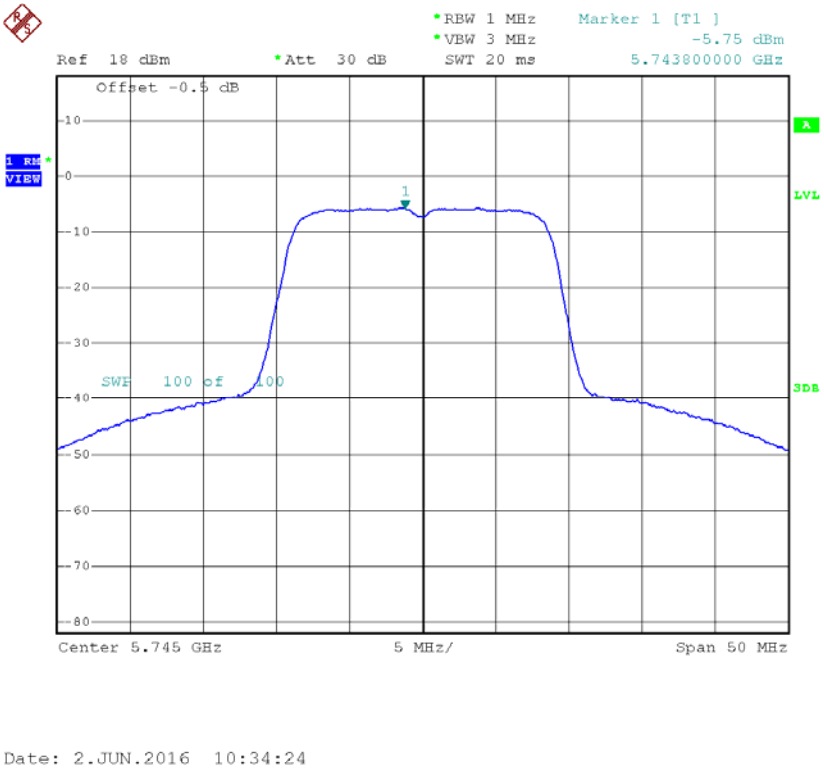


Date: 2.JUN.2016 10:33:00

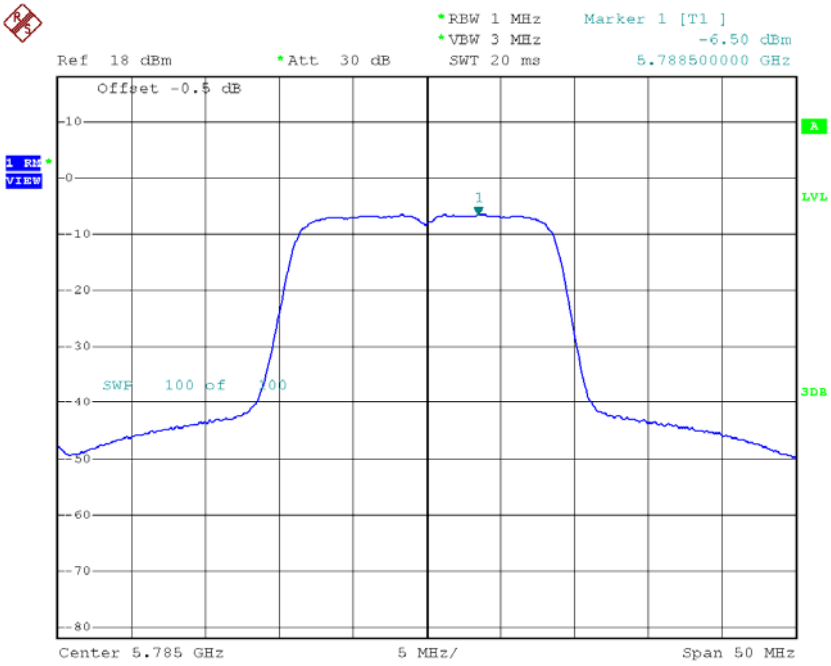
Test Mode: UNII-3/ TX N20 Mode_CH149/CH157/CH165

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	-5.75	0.26	-5.49	30.00
CH157	5785	-6.50	0.26	-6.24	30.00
CH165	5825	-5.93	0.26	-5.67	30.00

TX CH149

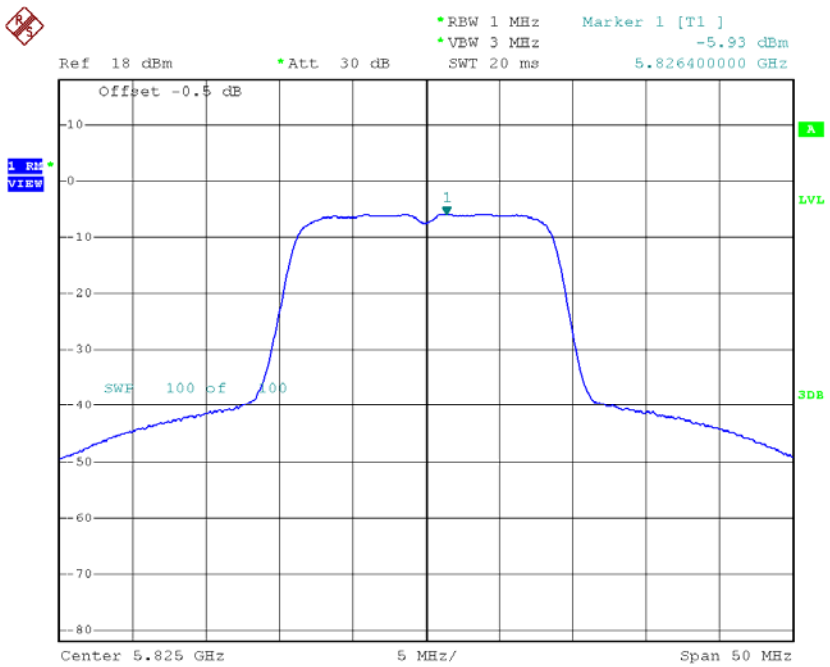


TX CH157



Date: 2.JUN.2016 10:36:03

TX CH165

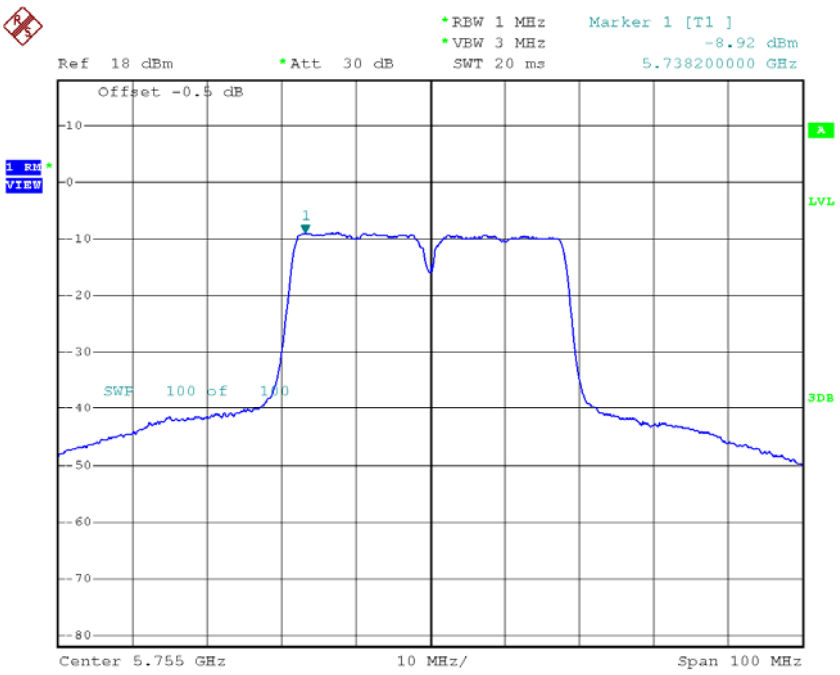


Date: 2.JUN.2016 10:37:08

Test Mode: UNII-3/ TX N40 Mode_CH151/CH159

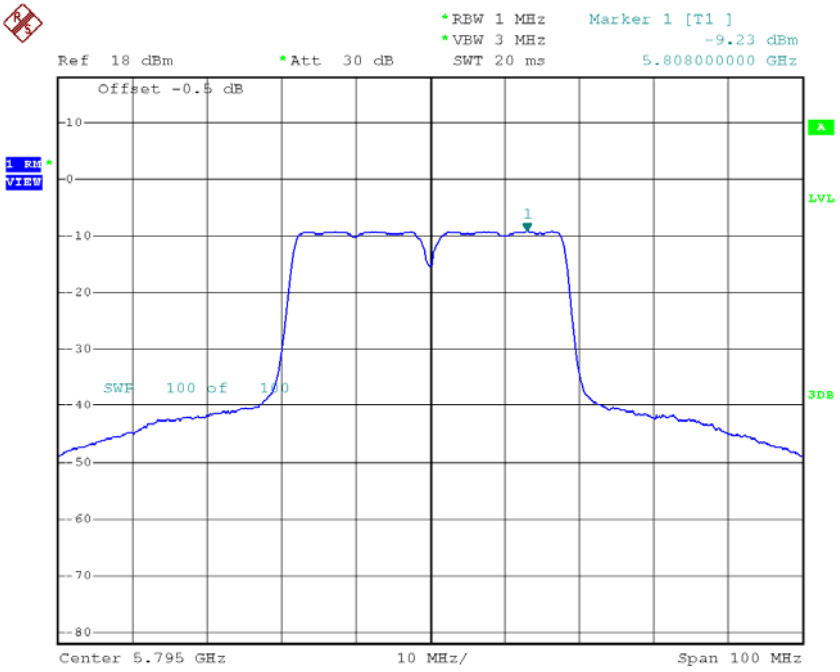
Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH151	5755	-8.92	1.04	-7.88	30.00
CH159	5795	-9.23	1.04	-8.19	30.00

TX CH151



Date: 2.JUN.2016 10:38:32

TX CH159



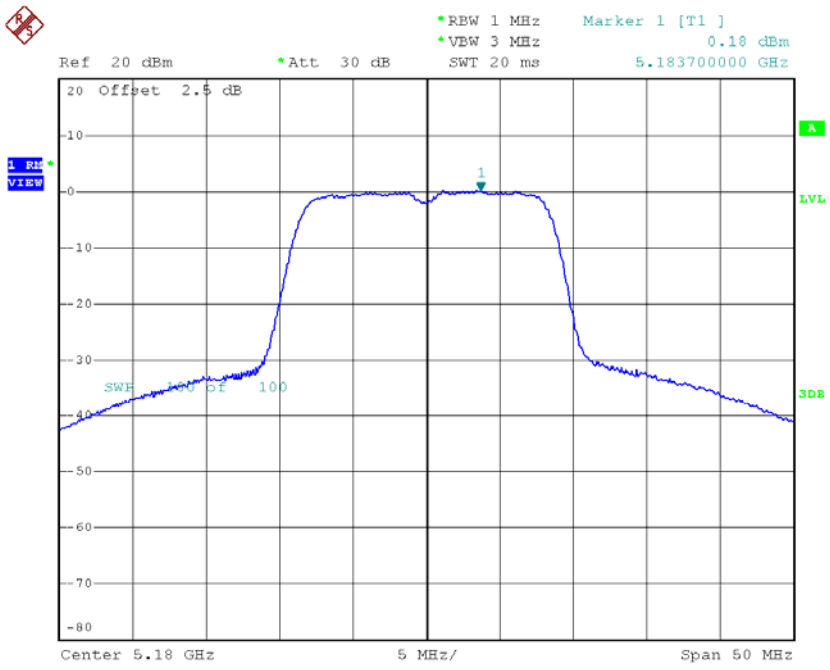
Date: 2.JUN.2016 10:39:31

For ANT 2

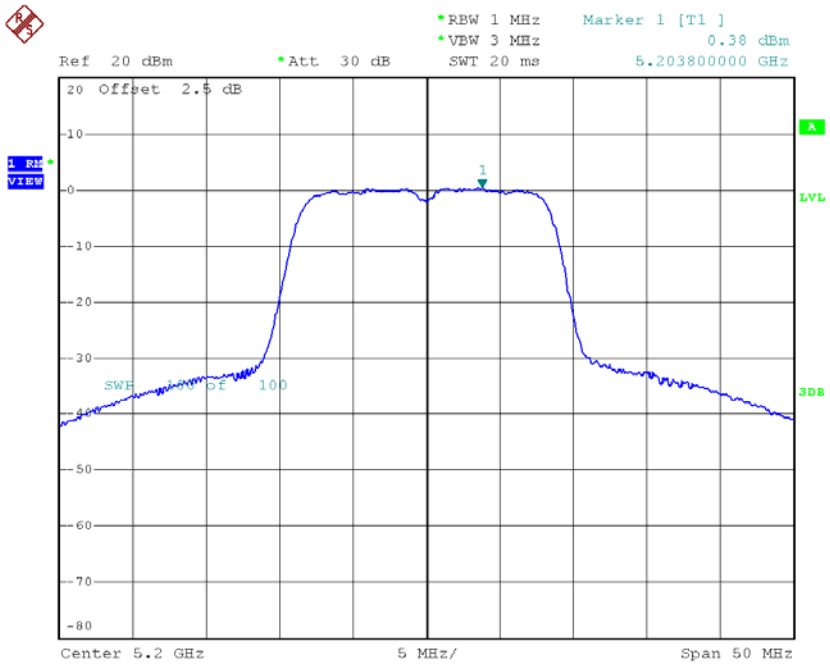
Test Mode: UNII-1/ TX A Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	0.18	1.14	1.32	11.00
CH40	5200	0.38	1.14	1.52	11.00
CH48	5240	1.56	1.14	2.70	11.00

CH36

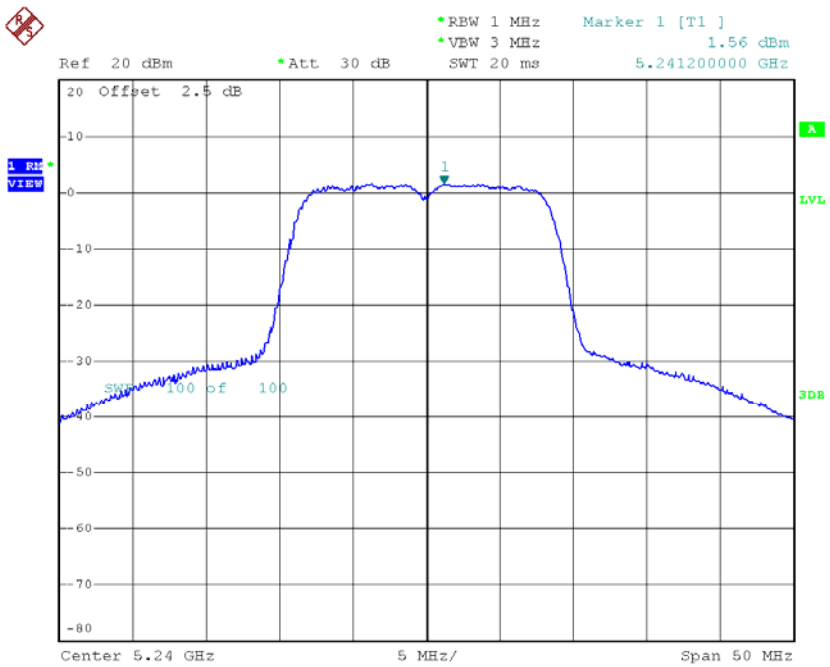


CH40



Date: 2.JUN.2016 10:51:48

CH48

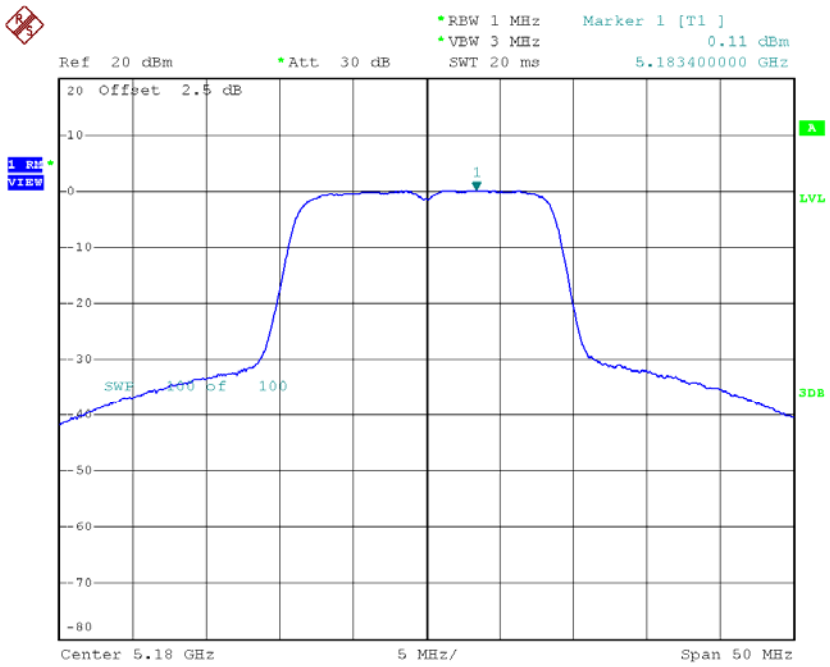


Date: 2.JUN.2016 10:52:44

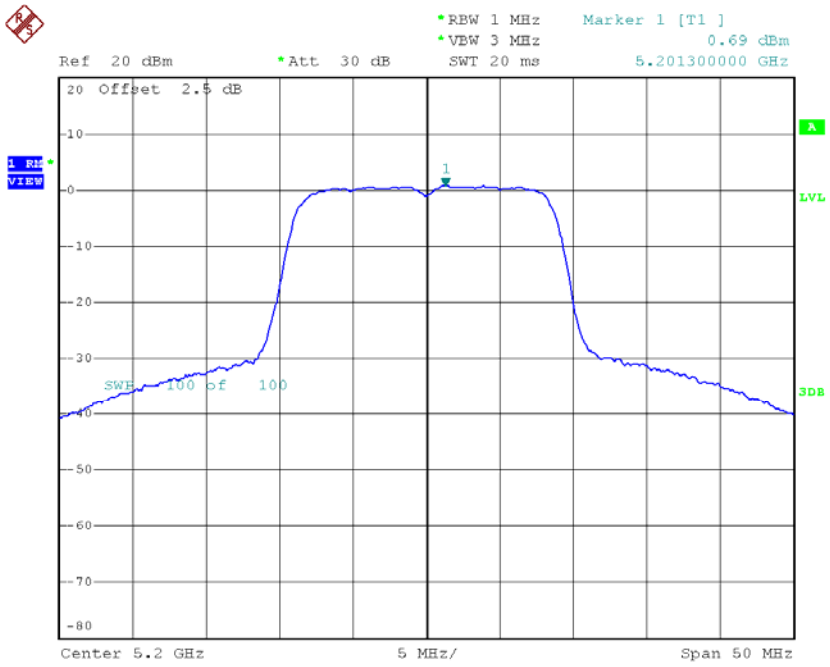
Test Mode: UNII-1/TX N20 Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	0.11	0.23	0.34	11.00
CH40	5200	0.69	0.23	0.92	11.00
CH48	5240	1.61	0.23	1.84	11.00

CH36

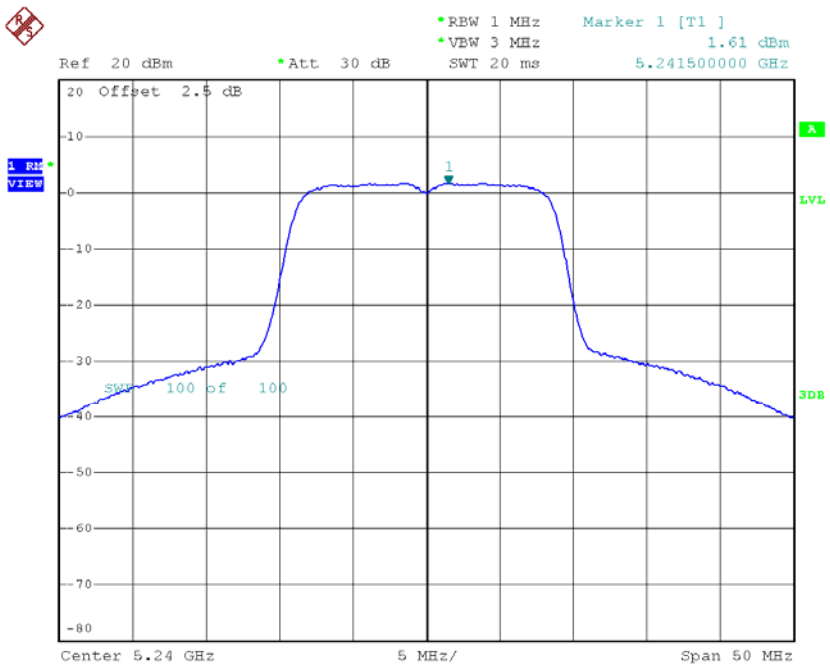


CH40



Date: 2.JUN.2016 10:59:16

CH48

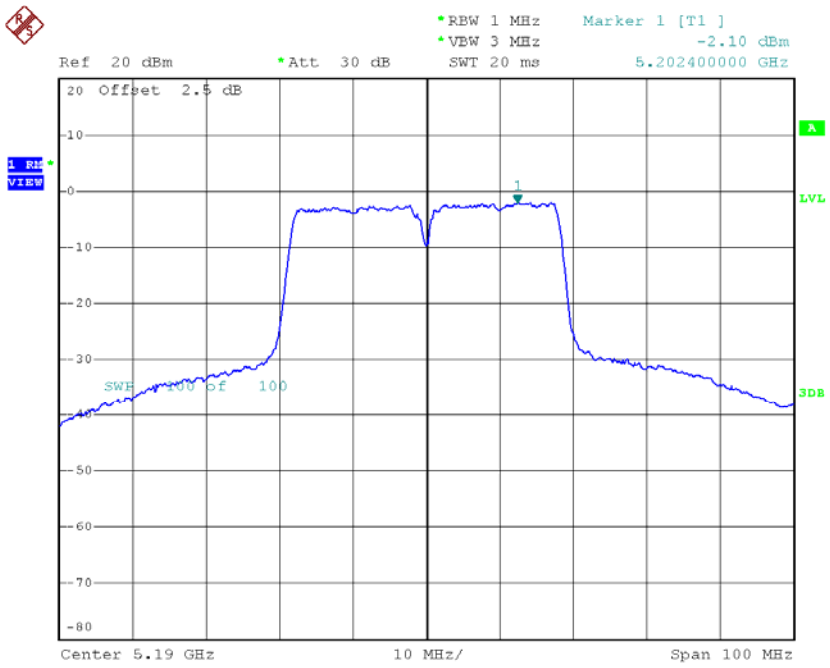


Date: 2.JUN.2016 11:01:45

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

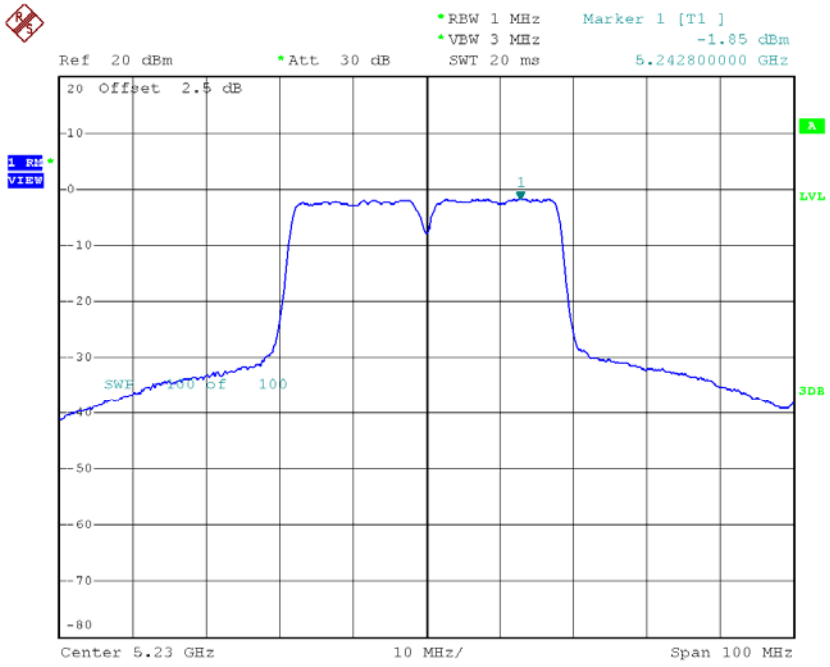
Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH38	5190	-2.10	0.64	-1.46	11.00
CH46	5230	-1.85	0.64	-1.21	11.00

CH38



Date: 2.JUN.2016 11:11:58

CH46

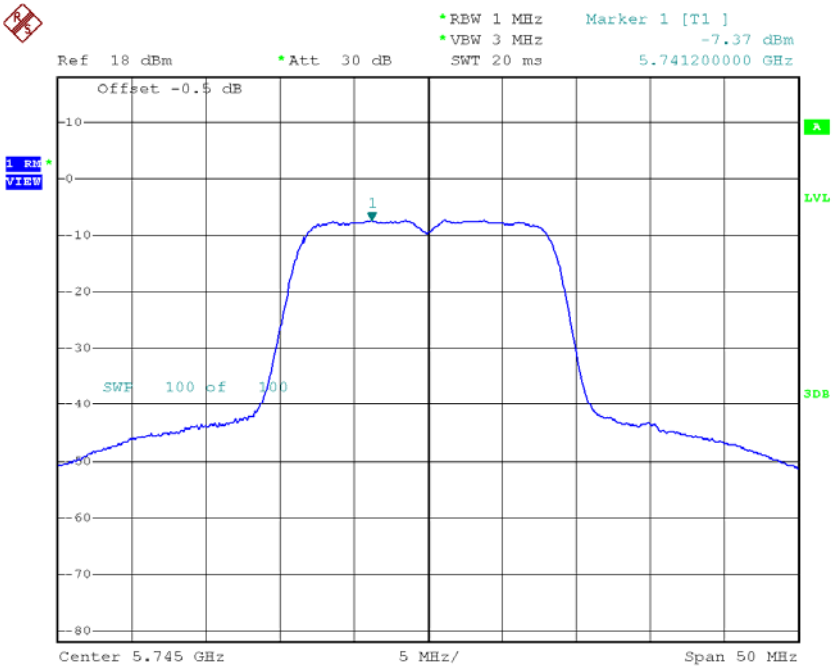


Date: 2.JUN.2016 11:13:12

Test Mode: UNII-3/TX A Mode_CH149/CH157/CH165

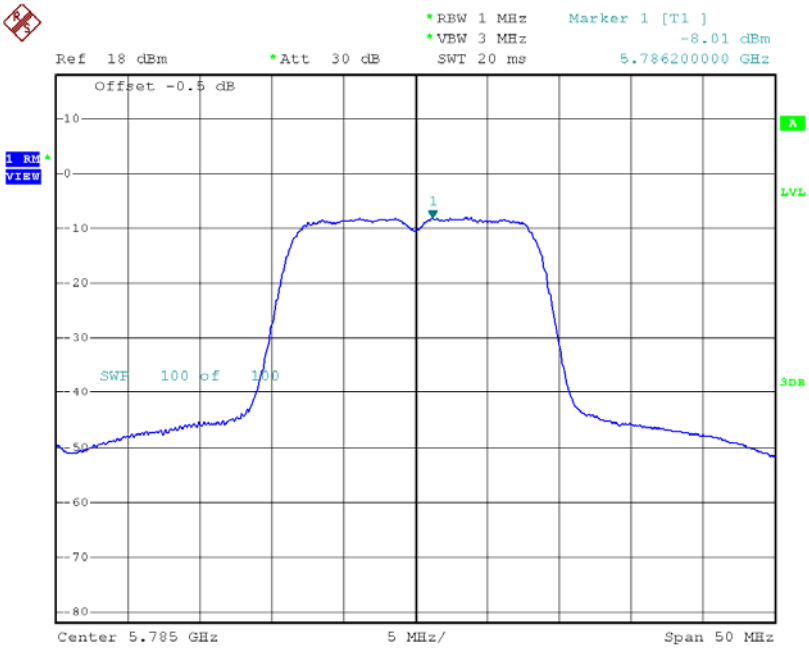
Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	-7.37	1.14	-6.23	30.00
CH157	5785	-8.01	1.14	-6.87	30.00
CH165	5825	-7.42	1.14	-6.28	30.00

TX CH149



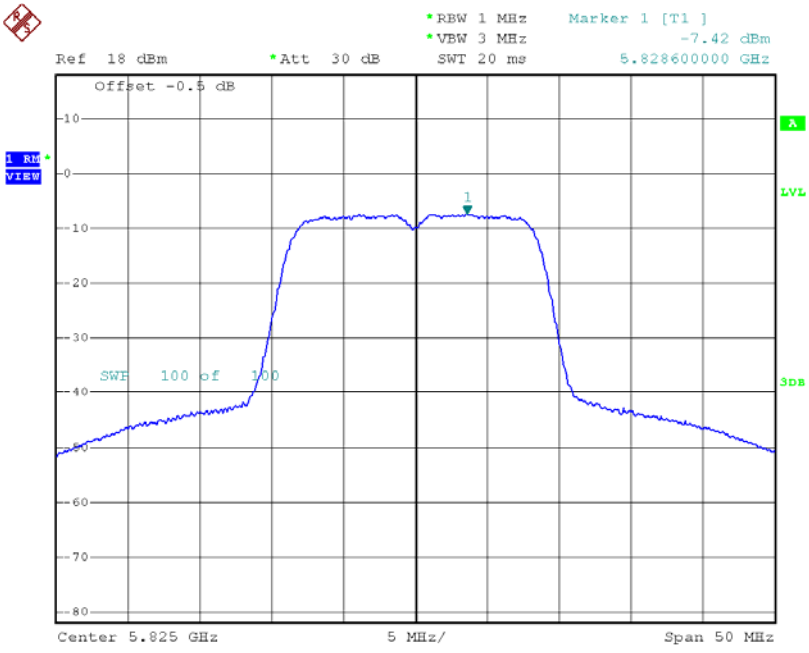
Date: 2.JUN.2016 10:53:37

TX CH157



Date: 2.JUN.2016 10:56:01

TX CH165

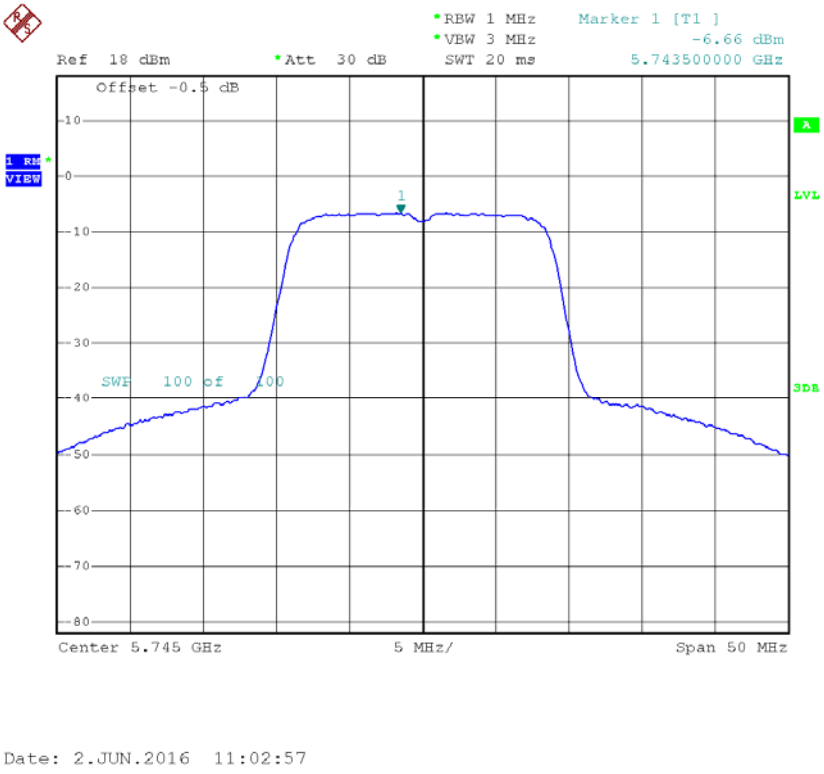


Date: 2.JUN.2016 10:56:57

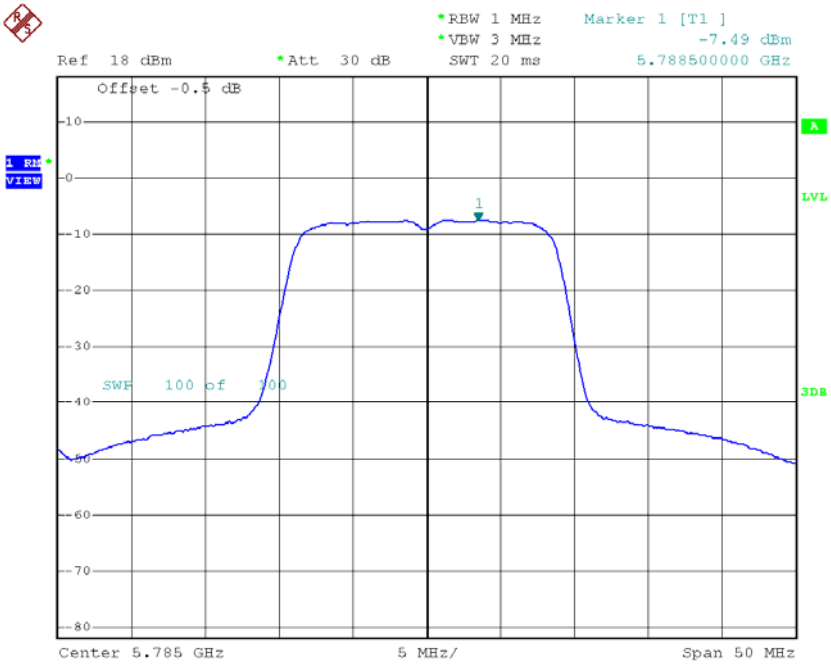
Test Mode: UNII-3/ TX N20 Mode_CH149/CH157/CH165

Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH149	5745	-6.66	0.23	-6.43	30.00
CH157	5785	-7.49	0.23	-7.26	30.00
CH165	5825	-6.93	0.23	-6.70	30.00

TX CH149

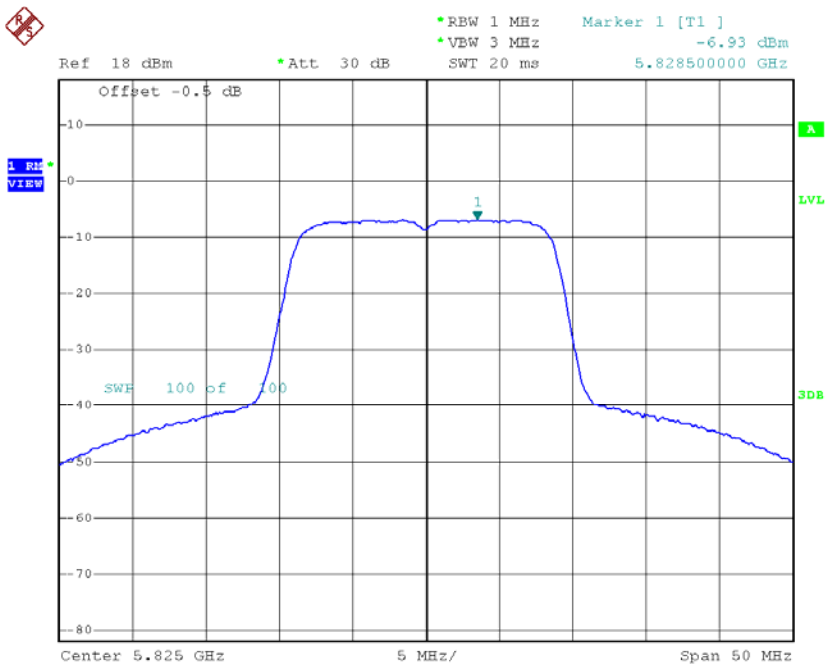


TX CH157



Date: 2.JUN.2016 11:04:00

TX CH165

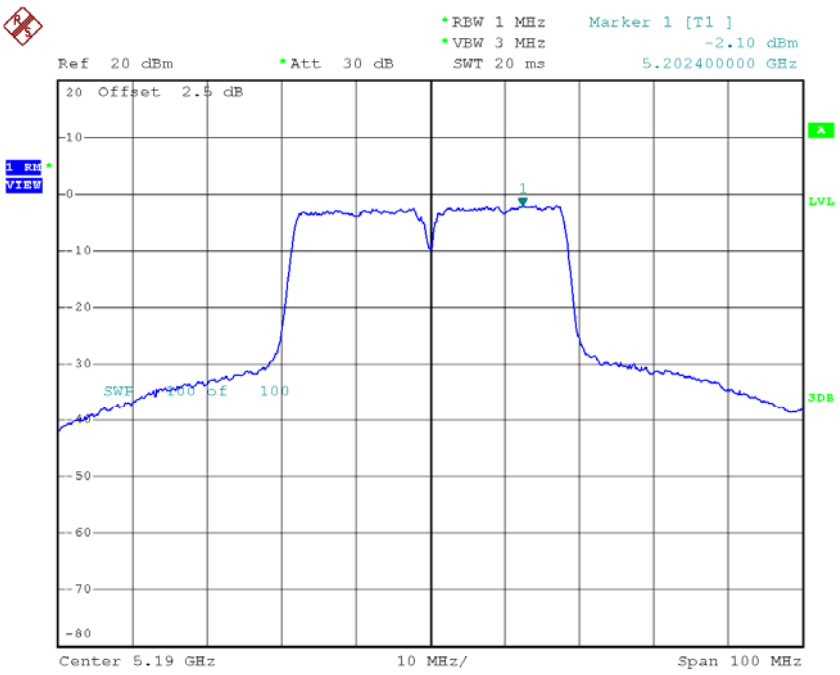


Date: 2.JUN.2016 11:10:42

Test Mode: UNII-3/ TX N40 Mode_CH151/CH159

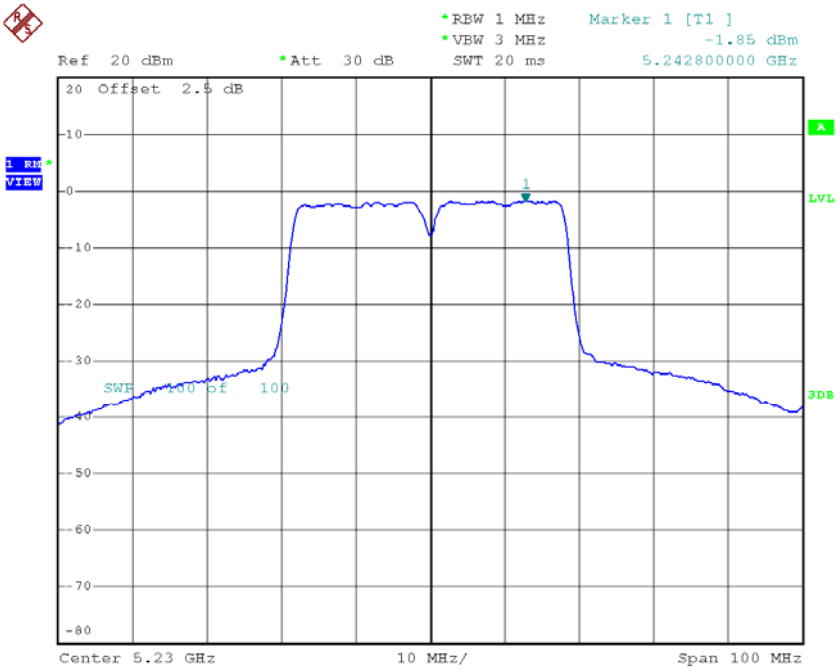
Channel	Frequency (MHz)	Power Density (dBm/500kHz)	Duty Factor (dBm/MHz)	Power Density + Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)
CH151	5755	-2.10	0.64	-1.46	30.00
CH159	5795	-1.85	0.64	-1.21	30.00

TX CH151



Date: 2.JUN.2016 11:11:58

TX CH159



Date: 2.JUN.2016 11:13:12

ATTACHMENT I - FREQUENCY STABILITY

Test Mode:	UNII-1

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180.0000
132	5179.933200
120	5179.933600
108	5179.933600
Max. Deviation (MHz)	0.0668
Max. Deviation (ppm)	12.8958

Temperature vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(℃)	5180.0000
-20	5179.933700
5	5179.934000
15	5179.934200
25	5179.934800
35	5179.935200
45	5179.935400
70	5179.935800
Max. Deviation (MHz)	0.0663
Max. Deviation (ppm)	12.7992

Test Mode:	UNII-3

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5745.0000
132	5742.9258
120	5744.9256
108	5744.9252
Max. Deviation (MHz)	2.0742
Max. Deviation (ppm)	361.0444

Temperature vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(℃)	5745.0000
-20	5744.9247
5	5744.9248
15	5744.9249
25	5744.9244
35	5744.9251
45	5744.9256
70	5744.9255
Max. Deviation (MHz)	0.0756
Max. Deviation (ppm)	13.1593