

FCCRadio Test Report

FCC ID:Q78-ZXV10B760H

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

Project No. : 1501C044
Equipment : RichMedia Box
Model Name : ZXV10 B760H; ZXV10 B760E
Applicant : ZTE Corporation
Address : ZTE Plaza, Hi-Teck Park, Nanshan District, Shenzhen, Guangdong, P.R. China

Date of Receipt : Jan. 06, 2015
Date of Test : Jan. 06, 2015 ~ Jan. 26, 2015
Issued Date : Jan. 27, 2015
Tested by : BTL Inc.

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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 the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1501C044	Original Issue.	Jan. 27, 2015

1. CERTIFICATION

Equipment : RichMedia Box
Brand Name : ZTE 中兴,ZTE
Model Name : ZXV10 B760H; ZXV10 B760E
Applicant : ZTE Corporation
Manufacturer: ZTE Corporation
Address : ZTE Plaza,Hi-Teck Park,Nanshan District,Shenzhen,Guangdong,P.R.China
Factory : ZTE Corporation
Address : ZTE Plaza,Hi-Teck Park,Nanshan District,Shenzhen,Guangdong,P.R.China
Date of Test : Jan. 06, 2015 ~ Jan. 26, 2015
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.4: 2009
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1501C044) 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			
Standard(s) Section	Test Item	Judgment	Remark
FCC			
15.207	AC Power Line Conducted Emissions	PASS	
15.407(a)	26dB Spectrum Bandwidth	PASS	
15.407(a)	Maximum Conducted Output Power	PASS	
15.407(a)	Power Spectral Density	PASS	
15.407(a)	Radiated Emissions	PASS	
15.407(b)	Band Edge Emissions	PASS	
15.407(g)	Frequency Stability	PASS	
15.203	Antenna Requirements	PASS	

NOTE:

(1)" N/A" denotes test is not applicable to this device.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.523792
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	NOTE
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	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	RichMedia Box	
Brand Name	ZTE中兴,ZTE	
Model Name	ZXV10 B760H; ZXV10 B760E	
Mode Different	Only differ in model name.	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	150Mbps
	Output Power (Max.)for UNII-1	802.11a:9.31dBm 802.11n (20M): 9.14dBm 802.11n (40M): 9.43dBm
	Output Power (Max.)for UNII-3	802.11a:9.69dBm 802.11n (20M): 9.60dBm 802.11n (40M): 9.50dBm
Power Source	DC voltage supplied from AC/DC adapter. #1 Brand/Model: DONGGUAN CITY YINGJU ELECTRONICS CO., LTD./YJS012F-1201000U #2 Brand/Model: AOYUAN/AY012A-AF122-US	
Power Rating	#1 I/P: 100-240V~50/60Hz 350mA O/P: 12.0V/1000mA #2 I/P: 100-240V~50/60Hz 0.5A O/P: DC 12V/1A	

Note:

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

2. Channel List:

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

802.11a 802.11n 20MHz		802.11n 40MHz	
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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Maglavers	MSA-3810-25GC 1-A8-EV	Internal	N/A	3.00	

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 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)
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.

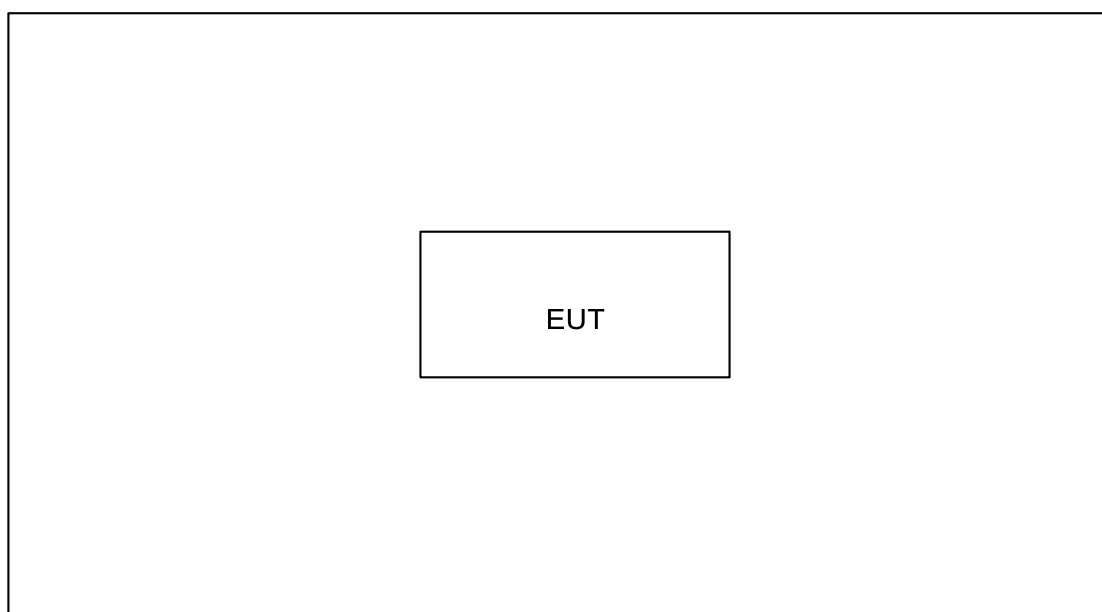
3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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 - 1TX			
Test Software Version	N/A		
Frequency (MHz)	5180	5200	5240
A Mode	12.5	12.5	12.5
Frequency (MHz)	5180	5200	5240
N20 Mode	12.5	12.5	12.5
Frequency (MHz)	5190	5230	
N40 Mode	12.5	12.5	

UNII-3 - 1TX			
Test Software Version	N/A		
Frequency (MHz)	5745	5785	5825
A Mode	11	11	12.5
Frequency (MHz)	5745	5785	5825
N20 Mode	11	11	12.5
Frequency (MHz)	5755	5795	
N40 Mode	11	11.5	

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.	Note
-	-	-	-	-	-	

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.

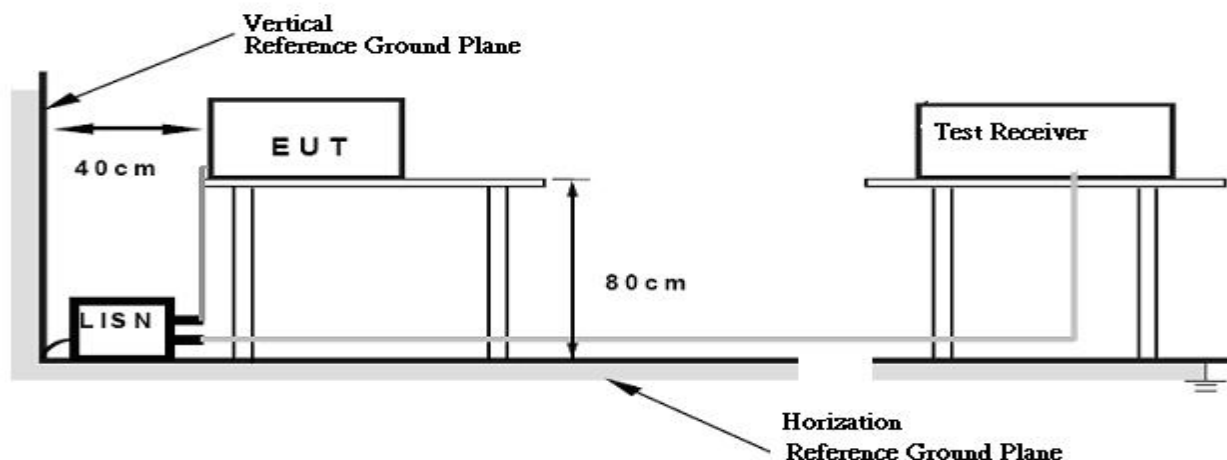
4.1.2 TEST PROCEDURE

- 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 groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TESTSETUP



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: 55% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

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

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

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

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

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

4.2.2 TESTPROCEDURE

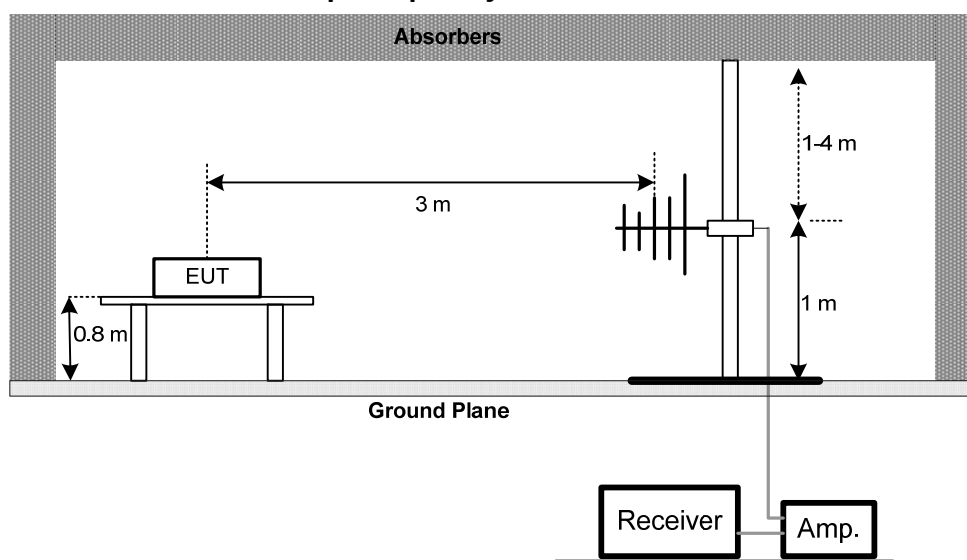
- The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

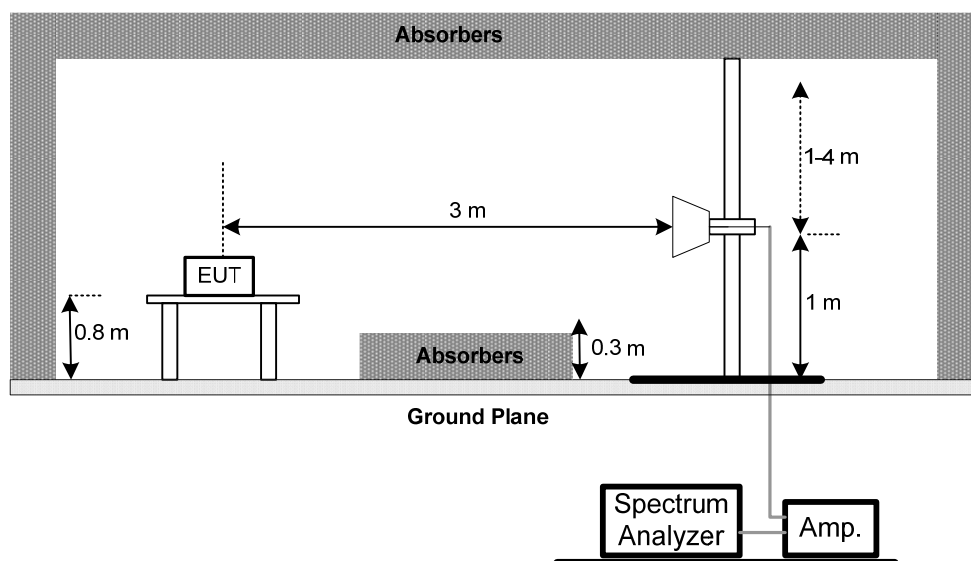
No deviation

4.2.4 TESTSETUP

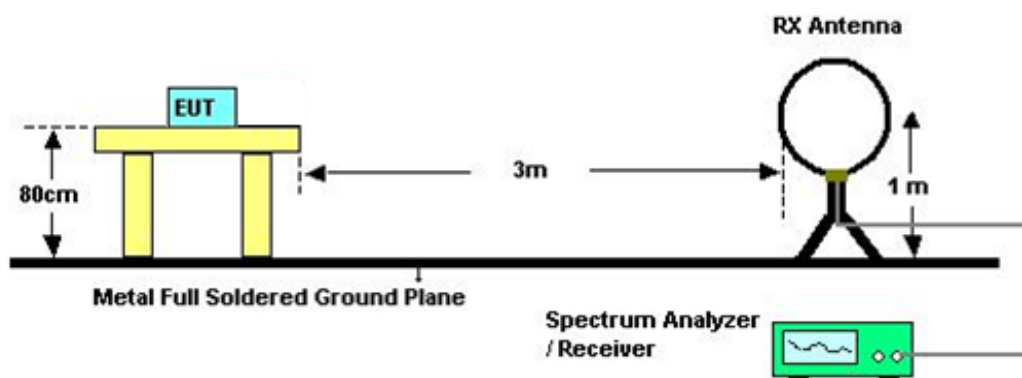
(A) Radiated Emission Test Set-Up Frequency Below 1GHz



(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: 55% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS(BETWEEN30 TO 1000 MHz)

Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Modewith Detector BW=120kHz ; SPA setting in RBW=120kHz, VBW =120kHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦

4.2.9 TEST RESULTS (ABOVE1000 MHz)

Please refer to the Attachment D.

Remark:

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

5.26dB SPECTRUM BANDWIDTH

5.1APPLIED PROCEDURES / LIMIT

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

5.1.1TEST PROCEDURE

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

b.

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

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

5.1.2DEVIATION FROM STANDARD

No deviation.

5.1.3TEST SETUP



5.1.4EUT OPERATION CONDITIONS

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

5.1.5EUT TEST CONDITIONS

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

5.1.6TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 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 any elevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm)			

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the 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	$\geq$ 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

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

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7.ANTENNA CONDUCTED SPURIOUS EMISSION

7.1APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
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

7.1.1TEST PROCEDURE

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

b.

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

7.1.2DEVIATION FROM STANDARD

No deviation.

7.1.3TEST SETUP



7.1.4EUT OPERATION CONDITIONS

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

7.1.5EUT TEST CONDITIONS

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

7.1.6TEST 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

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	Max Hold
Sweep Time	Auto

Note:

1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
2. The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

8.1.1 DEVIATION FROM STANDARD

No deviation.

8.1.2 TEST SETUP



8.1.3 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.

8.1.4 EUT TEST CONDITIONS

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

8.1.5 TEST RESULTS

Please refer to the Attachment H.

9.FREQUENCY STABILITY MEASUREMENT

9.1APPLIED PROCEDURES / LIMIT

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

9.1.1TEST PROCEDURE

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

b.

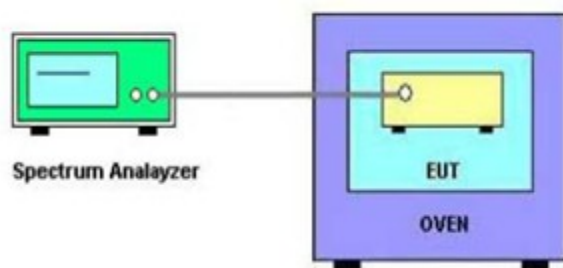
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissionsbandwidth
RBW	10 kHz
VBW	10kHz
Sweep Time	Auto

- c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- d. User manual temperature is 0°C~40°C.

9.1.2DEVIATION 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	00052765	Mar. 29,2015
2	LISN	R&S	ENV216	100087	Mar. 29,2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Mar. 29,2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29,2015
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	Schwarzbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 29, 2015
7	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
8	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 22, 2015
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015
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	Nov. 02, 2015

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015
2	Precision Oven Tester	HOLINK	H-T-1F-D	BA03101701	May. 24, 2015

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

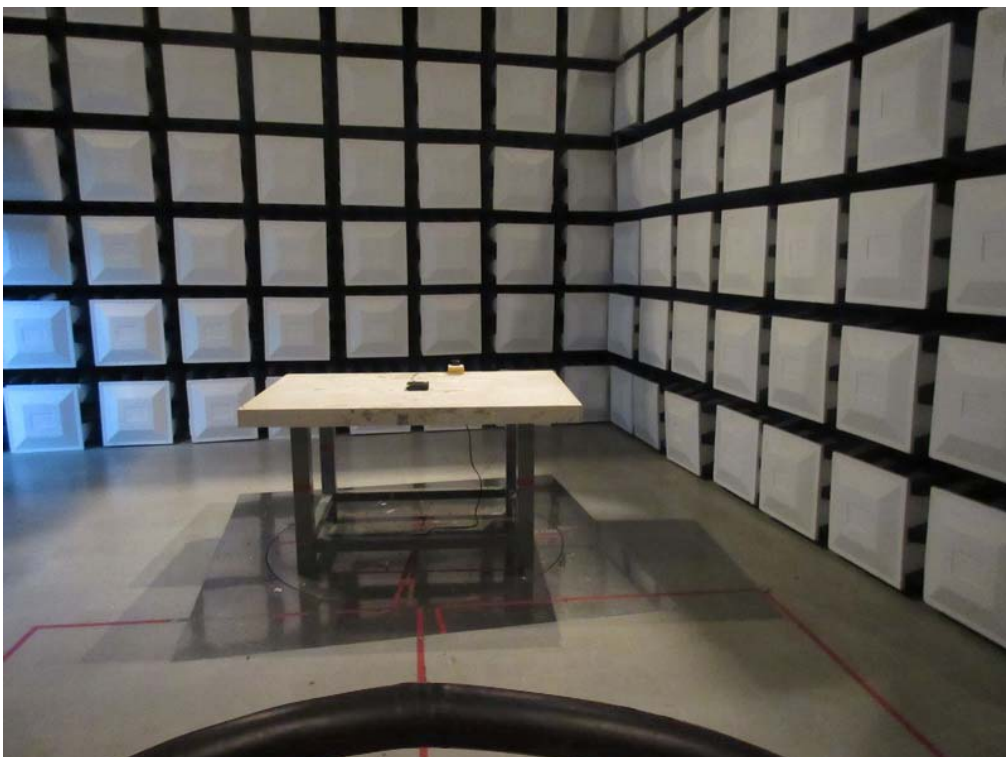
11.EUT TEST PHOTOS

Conducted Measurement Photos



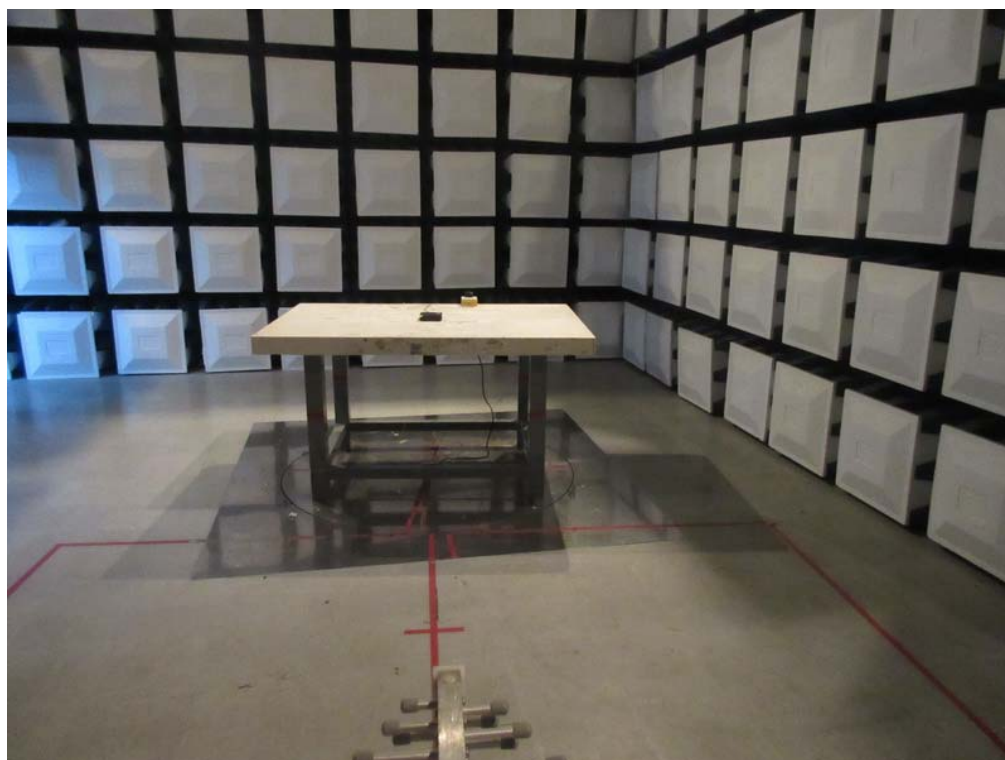
Radiated Measurement Photos

9kHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

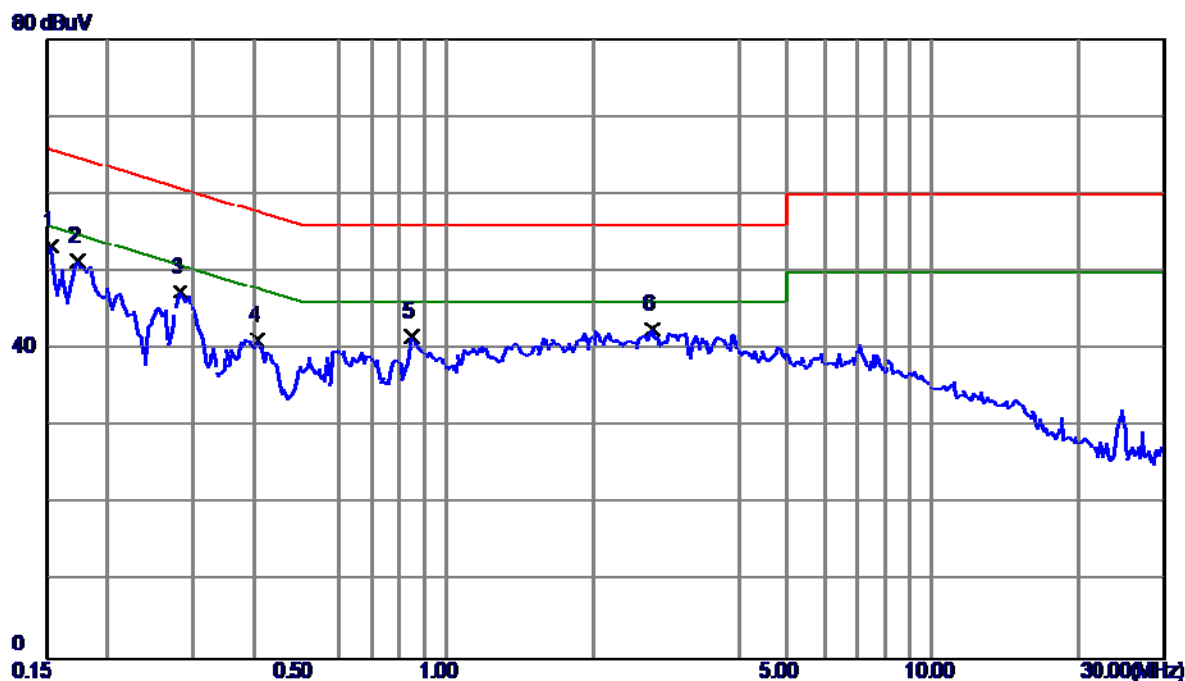
Above 1000MHz



ATTACHMENT A -CONDUCTED EMISSION

Test Mode: TX MODE

Line

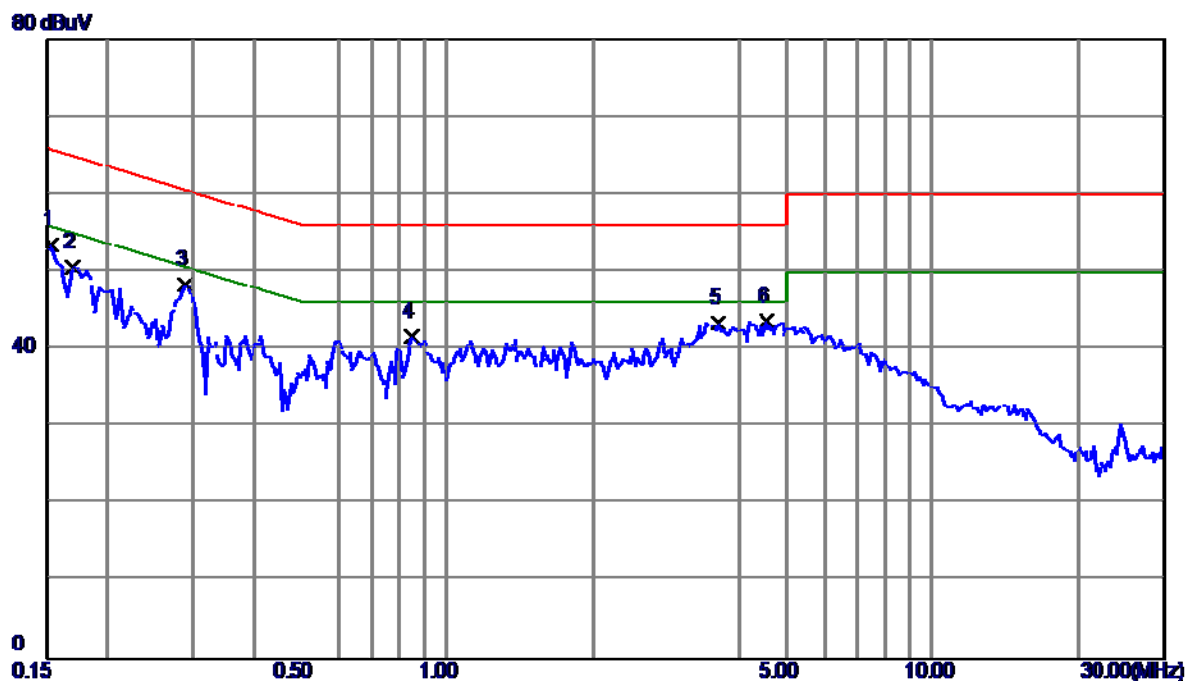


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1539	43.72	9.48	53.20	65.79	-12.59	Peak	
2	0.1734	41.92	9.49	51.41	64.80	-13.39	Peak	
3	0.2828	37.88	9.54	47.42	60.73	-13.31	Peak	
4	0.4078	31.52	9.60	41.12	57.69	-16.57	Peak	
5	0.8492	32.01	9.59	41.60	56.00	-14.40	Peak	
6	2.6500	32.94	9.61	42.55	56.00	-13.45	Peak	

Note : The test result has included the cable loss.

Test Mode: TX MODE

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1539	43.83	9.59	53.42	65.79	-12.37	Peak	
2	0.1695	40.98	9.58	50.56	64.98	-14.42	Peak	
3	0.2906	38.80	9.57	48.37	60.51	-12.14	Peak	
4	0.8453	32.02	9.59	41.61	56.00	-14.39	Peak	
5	3.6172	33.75	9.66	43.41	56.00	-12.59	Peak	
6	4.5586	33.93	9.67	43.60	56.00	-12.40	Peak	

Note : The test result has included the cable loss.

ATTACHMENTB -RADIATED EMISSION (9KHZ TO 30MHZ)

Test Mode:	TX MODE
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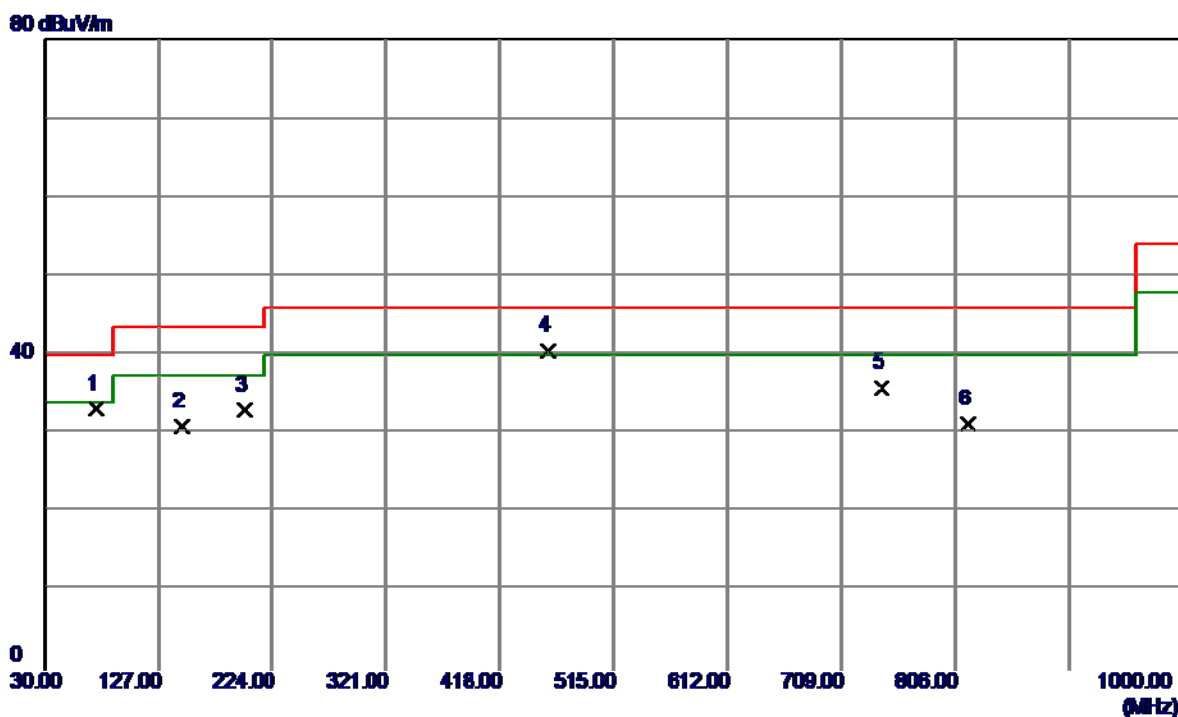
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0176	0°	8.15	24.4520	32.6020	102.6940	-70.0920	AVG
0.0176	0°	9.46	24.4520	33.9120	122.6940	-88.7820	PEAK
0.0257	0°	6.37	23.9390	30.3090	99.4056	-69.0966	AVG
0.0257	0°	7.85	23.9390	31.7890	119.4056	-87.6166	PEAK
0.0368	0°	1.25	23.2360	24.4860	96.2873	-71.8013	AVG
0.0368	0°	3.76	23.2360	26.9960	116.2873	-89.2913	PEAK
0.0792	0°	-2.71	21.8160	19.1060	89.6297	-70.5237	AVG
0.0792	0°	1.42	21.8160	23.2360	109.6297	-86.3937	PEAK
1.0912	0°	16.85	19.5909	36.4409	66.8461	-30.4053	QP
3.4146	0°	21.72	18.9415	40.6615	69.5400	-28.8785	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.02036	90°	8.03	24.2772	32.3072	121.4287	-89.1215	AVG
0.02036	90°	10.52	24.2772	34.7972	141.4287	-106.6315	PEAK
0.0257	90°	5.18	23.9390	29.1190	119.4056	-90.2866	AVG
0.0257	90°	7.49	23.9390	31.4290	139.4056	-107.9766	PEAK
0.0418	90°	1.63	22.9193	24.5493	115.1807	-90.6314	AVG
0.0418	90°	3.18	22.9193	26.0993	135.1807	-109.0814	PEAK
0.0631	90°	-2.17	22.1380	19.9680	111.6036	-91.6356	AVG
0.0631	90°	1.15	22.1380	23.2880	131.6036	-108.3156	PEAK
1.1572	90°	18.25	19.5843	37.8343	66.3361	-28.5018	QP
2.4356	90°	23.72	19.2386	42.9586	69.5400	-26.5814	QP

ATTACHMENTC -RADIATED EMISSION (30MHZ TO 1000MHZ)

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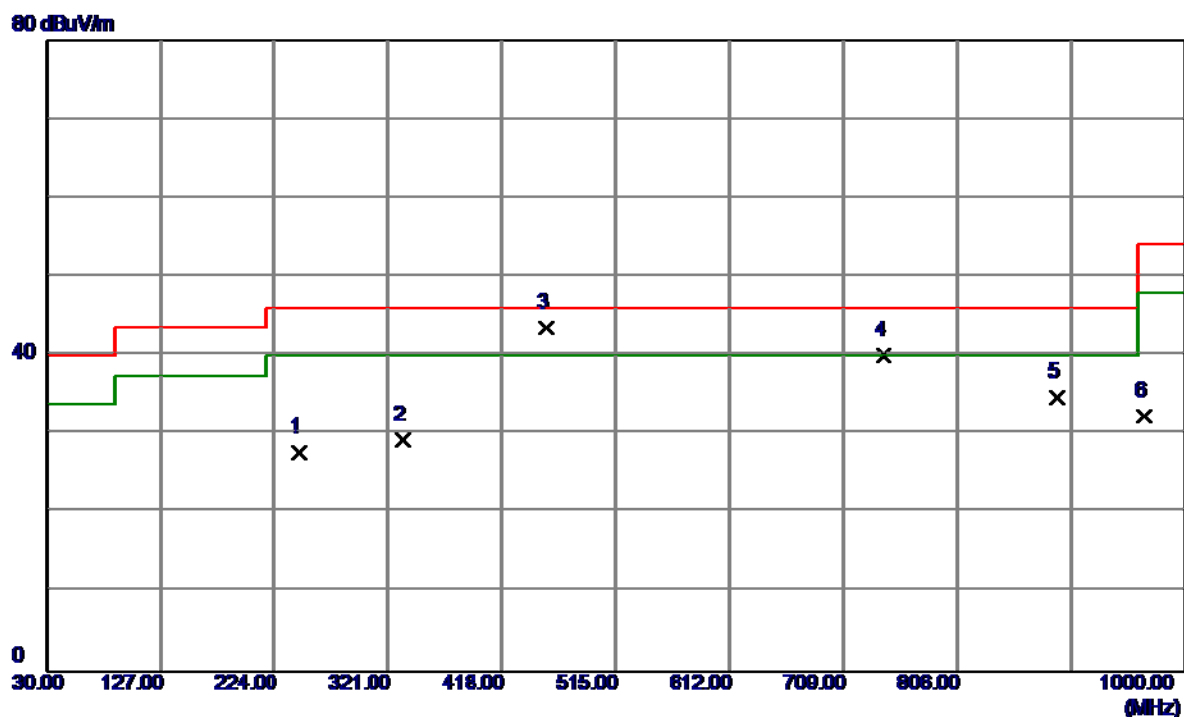
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	73.6500	49.59	-16.51	33.08	40.00	-6.92	Peak	
2	147.3700	44.00	-13.17	30.83	43.50	-12.67	Peak	
3	200.7200	47.93	-15.02	32.91	43.50	-10.59	Peak	
4	458.7400	49.50	-8.95	40.55	46.00	-5.45	Peak	
5	742.9500	40.59	-4.67	35.92	46.00	-10.08	Peak	
6	816.6700	34.20	-2.98	31.22	46.00	-14.78	Peak	

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

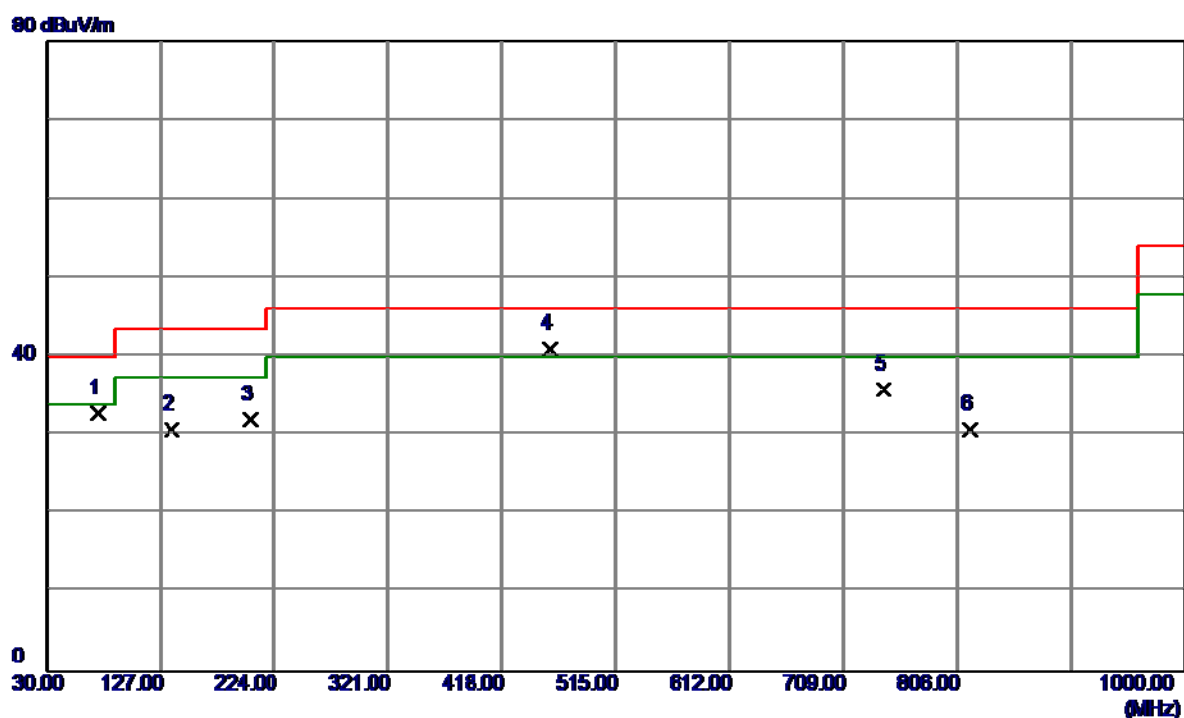
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	245.3400	41.66	-14.03	27.63	46.00	-18.37	Peak	
2	333.6099	40.75	-11.53	29.22	46.00	-16.78	Peak	
3	455.8300	52.37	-8.84	43.53	46.00	-2.47	QP	
4	742.9500	44.63	-4.67	39.96	46.00	-6.04	Peak	
5	891.3600	36.53	-1.81	34.72	46.00	-11.28	Peak	
6	965.0800	32.58	-0.27	32.31	54.00	-21.69	Peak	

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

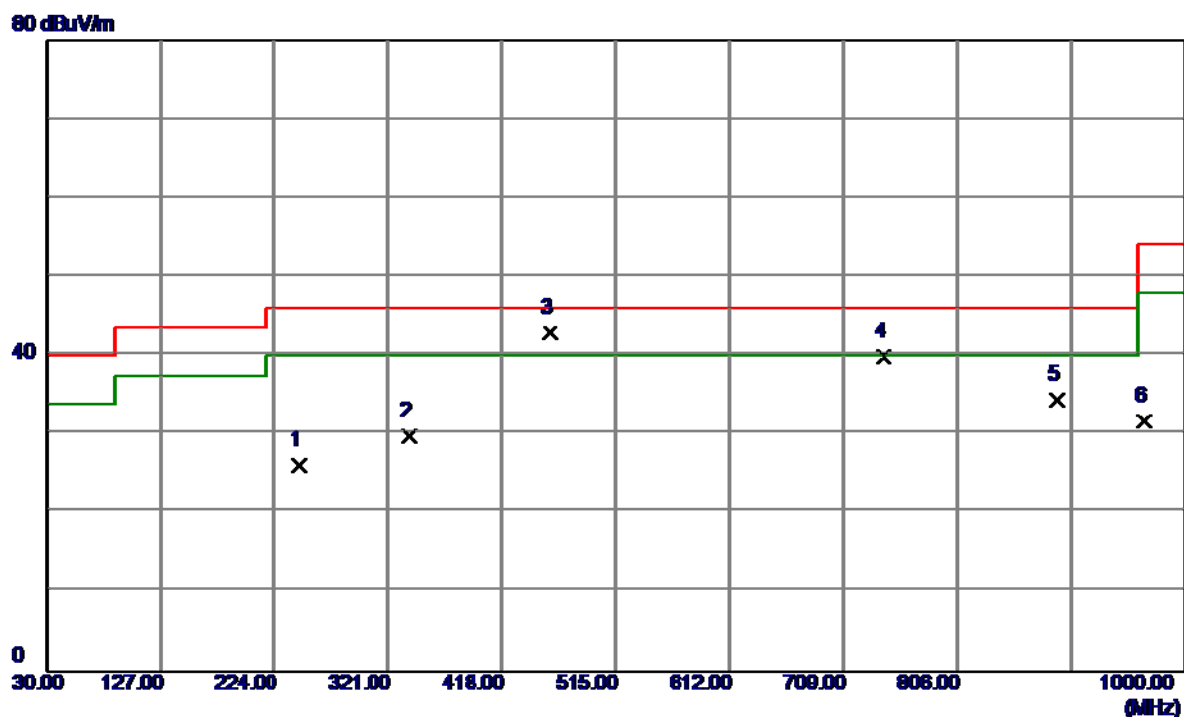
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	73.6500	49.24	-16.51	32.73	40.00	-7.27	Peak	
2	136.7000	43.84	-13.13	30.71	43.50	-12.79	Peak	
3	203.6300	47.17	-15.14	32.03	43.50	-11.47	Peak	
4	458.7400	49.92	-8.95	40.97	46.00	-5.03	Peak	
5	742.9500	40.57	-4.67	35.90	46.00	-10.10	Peak	
6	816.6700	33.66	-2.98	30.68	46.00	-15.32	Peak	

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

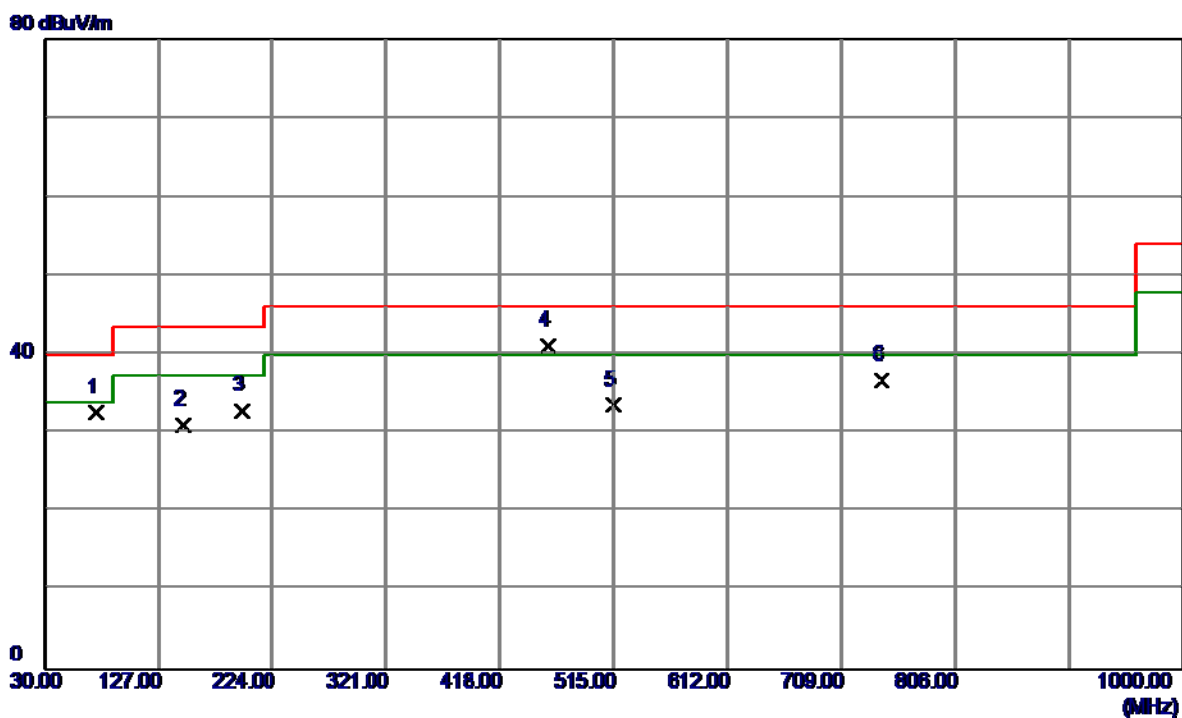
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	245.3400	40.18	-14.03	26.15	46.00	-19.85	Peak	
2	339.4300	41.36	-11.62	29.74	46.00	-16.26	Peak	
3	458.7400	51.83	-8.95	42.88	46.00	-3.12	QP	
4	742.9500	44.56	-4.67	39.89	46.00	-6.11	Peak	
5	891.3600	36.17	-1.81	34.36	46.00	-11.64	Peak	
6	965.0800	31.95	-0.27	31.68	54.00	-22.32	Peak	

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

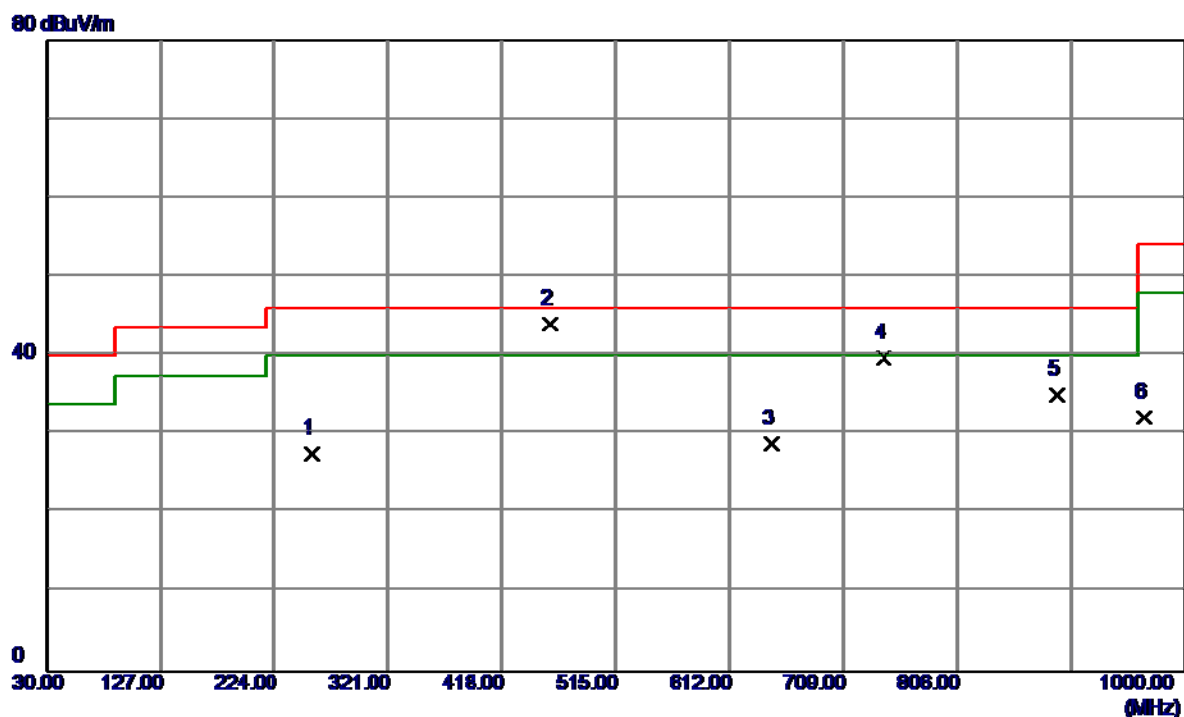
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	73.6500	49.13	-16.51	32.62	40.00	-7.38	Peak	
2	148.3400	44.26	-13.18	31.08	43.50	-12.42	Peak	
3	197.8100	47.73	-14.85	32.88	43.50	-10.62	Peak	
4	458.7400	50.10	-8.95	41.15	46.00	-4.85	Peak	
5	515.0000	43.37	-9.74	33.63	46.00	-12.37	Peak	
6	742.9500	41.46	-4.67	36.79	46.00	-9.21	Peak	

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

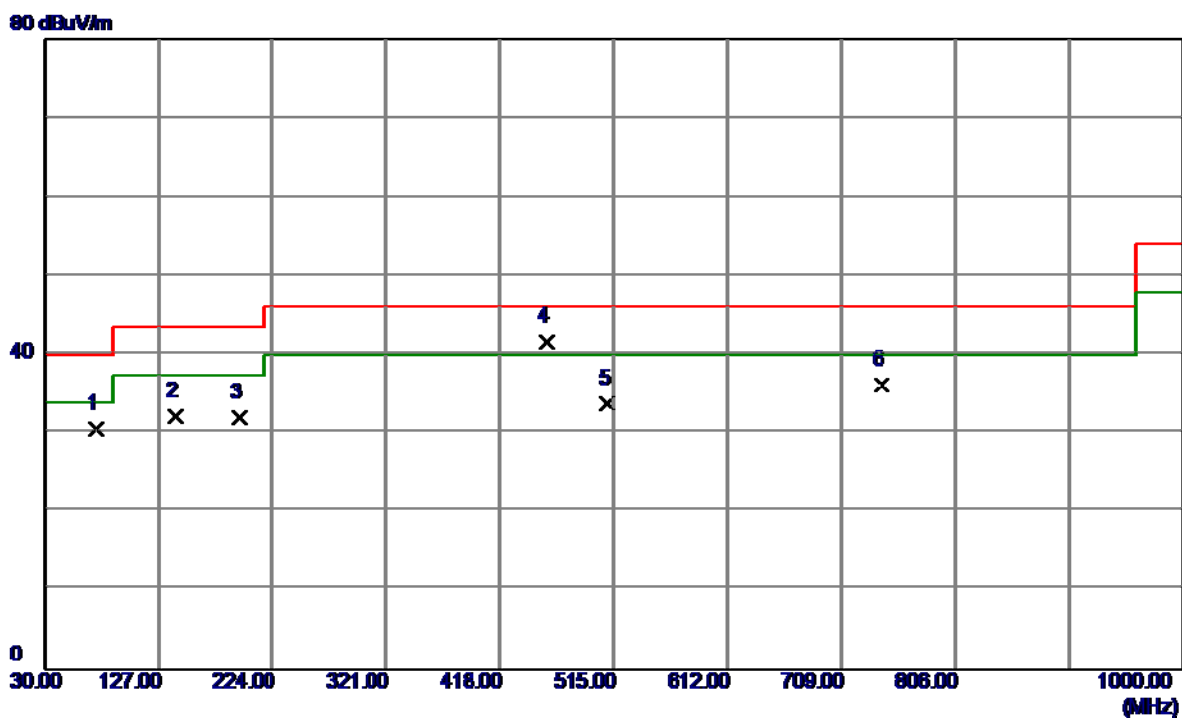
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	256.0100	41.42	-13.88	27.54	46.00	-18.46	Peak	
2	458.7400	52.89	-8.95	43.94	46.00	-2.06	QP	
3	647.8900	34.03	-5.27	28.76	46.00	-17.24	Peak	
4	742.9500	44.28	-4.67	39.61	46.00	-6.39	Peak	
5	891.3600	36.92	-1.81	35.11	46.00	-10.89	Peak	
6	965.0800	32.40	-0.27	32.13	54.00	-21.87	Peak	

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

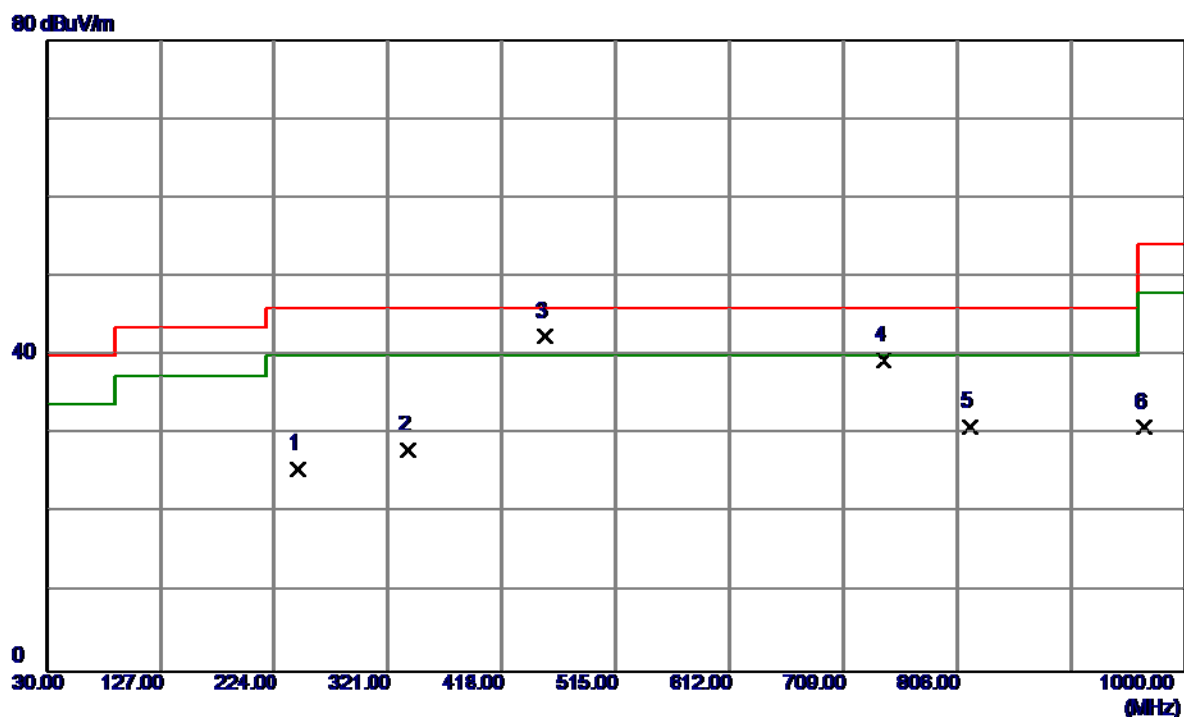
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	73.6500	47.14	-16.51	30.63	40.00	-9.37	Peak	
2	142.5200	45.30	-13.17	32.13	43.50	-11.37	Peak	
3	195.8700	46.77	-14.73	32.04	43.50	-11.46	Peak	
4	457.7700	50.49	-8.92	41.57	46.00	-4.43	Peak	
5	510.1500	43.79	-9.99	33.80	46.00	-12.20	Peak	
6	742.9500	40.90	-4.67	36.23	46.00	-9.77	Peak	

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

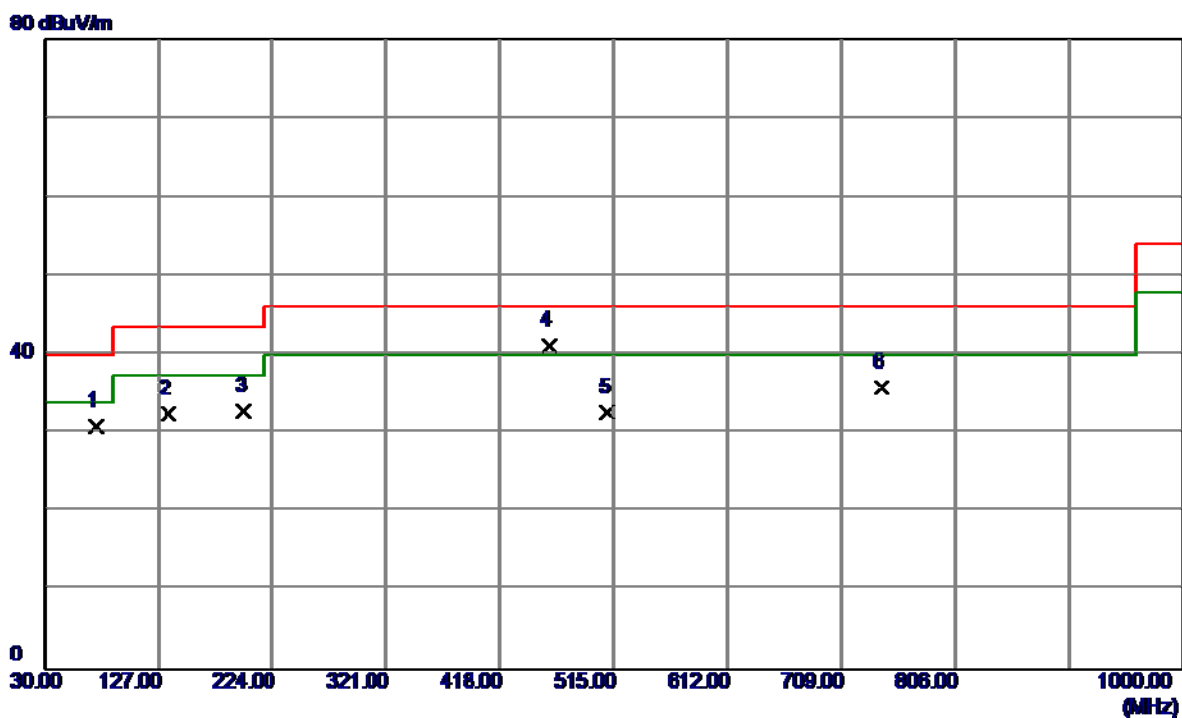
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	244.3700	39.64	-14.03	25.61	46.00	-20.39	Peak	
2	338.4600	39.67	-11.61	28.06	46.00	-17.94	Peak	
3	454.8600	51.24	-8.80	42.44	46.00	-3.56	QP	
4	742.9500	44.08	-4.67	39.41	46.00	-6.59	Peak	
5	816.6700	33.94	-2.98	30.96	46.00	-15.04	Peak	
6	965.0800	31.22	-0.27	30.95	54.00	-23.05	Peak	

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

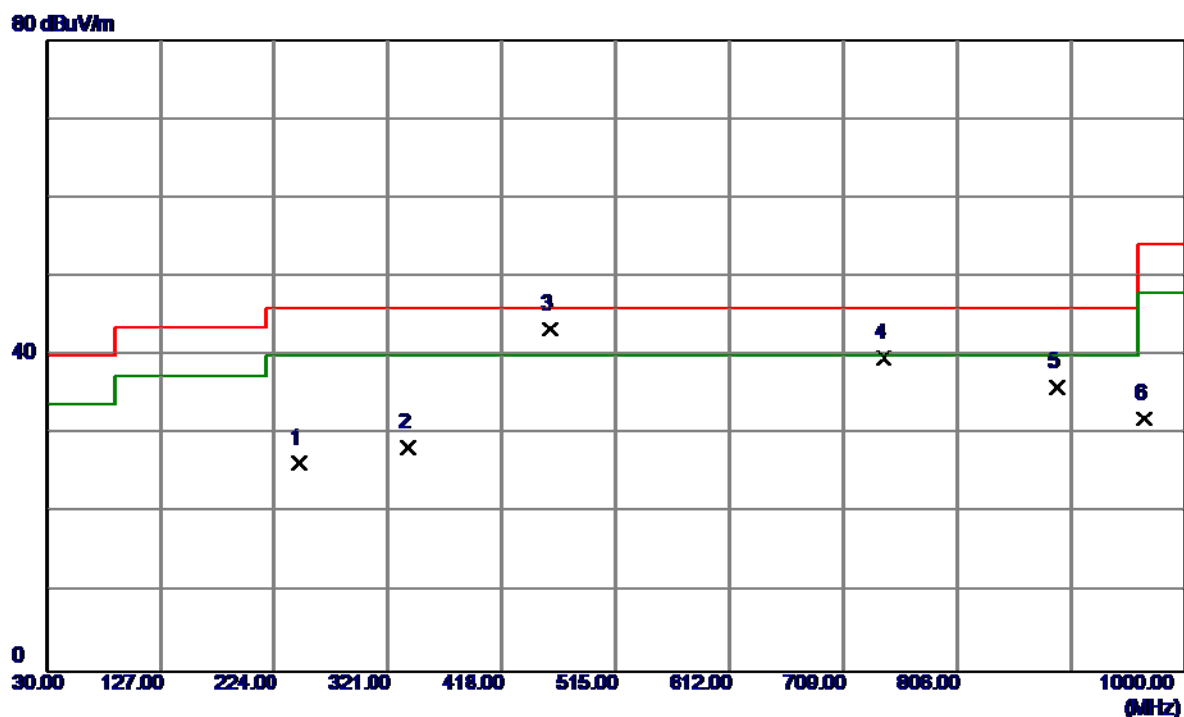
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	73.6500	47.38	-16.51	30.87	40.00	-9.13	Peak	
2	135.7300	45.63	-13.12	32.51	43.50	-10.99	Peak	
3	199.7500	47.72	-14.97	32.75	43.50	-10.75	Peak	
4	459.7100	50.04	-8.99	41.05	46.00	-4.95	Peak	
5	510.1500	42.58	-9.99	32.59	46.00	-13.41	Peak	
6	742.9500	40.58	-4.67	35.91	46.00	-10.09	Peak	

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

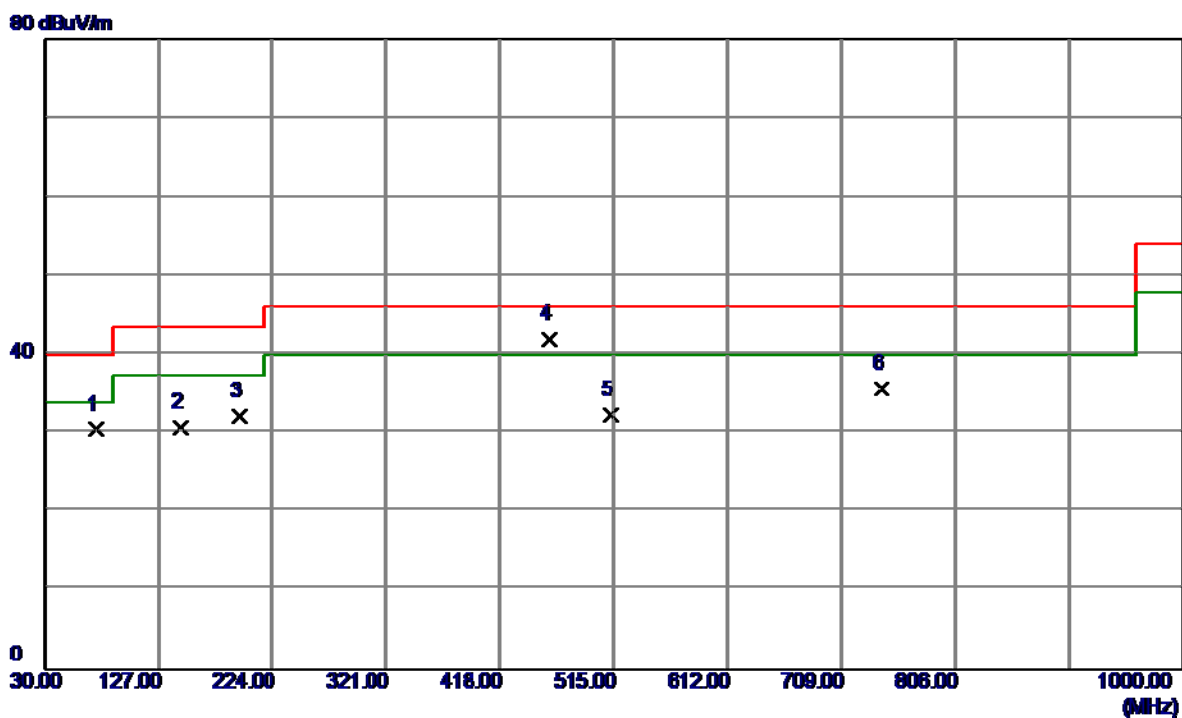
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	245.3400	40.35	-14.03	26.32	46.00	-19.68	Peak	
2	338.4600	39.91	-11.61	28.30	46.00	-17.70	Peak	
3	458.7400	52.26	-8.95	43.31	46.00	-2.69	QP	
4	742.9500	44.30	-4.67	39.63	46.00	-6.37	Peak	
5	891.3600	37.76	-1.81	35.95	46.00	-10.05	Peak	
6	965.0800	32.23	-0.27	31.96	54.00	-22.04	Peak	

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

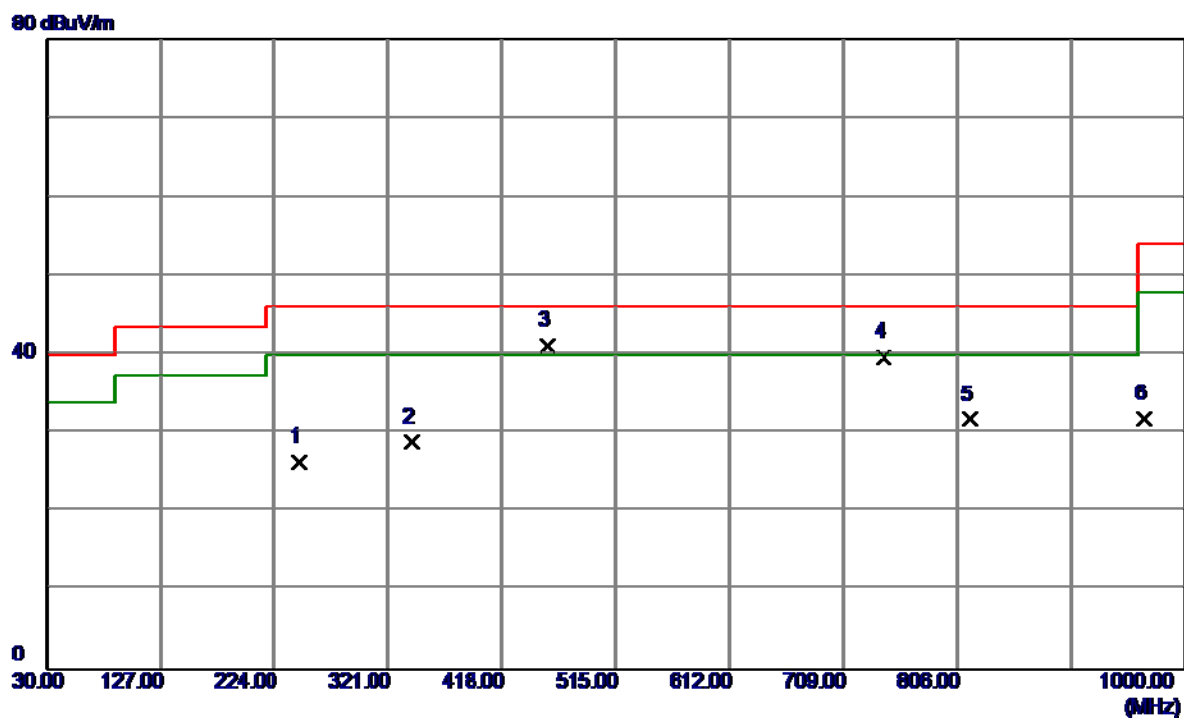
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	73.6500	46.99	-16.51	30.48	40.00	-9.52	Peak	
2	146.4000	43.88	-13.17	30.71	43.50	-12.79	Peak	
3	195.8700	46.82	-14.73	32.09	43.50	-11.41	Peak	
4	459.7100	50.91	-8.99	41.92	46.00	-4.08	Peak	
5	513.0600	42.19	-9.84	32.35	46.00	-13.65	Peak	
6	742.9500	40.36	-4.67	35.69	46.00	-10.31	Peak	

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

Horizontal

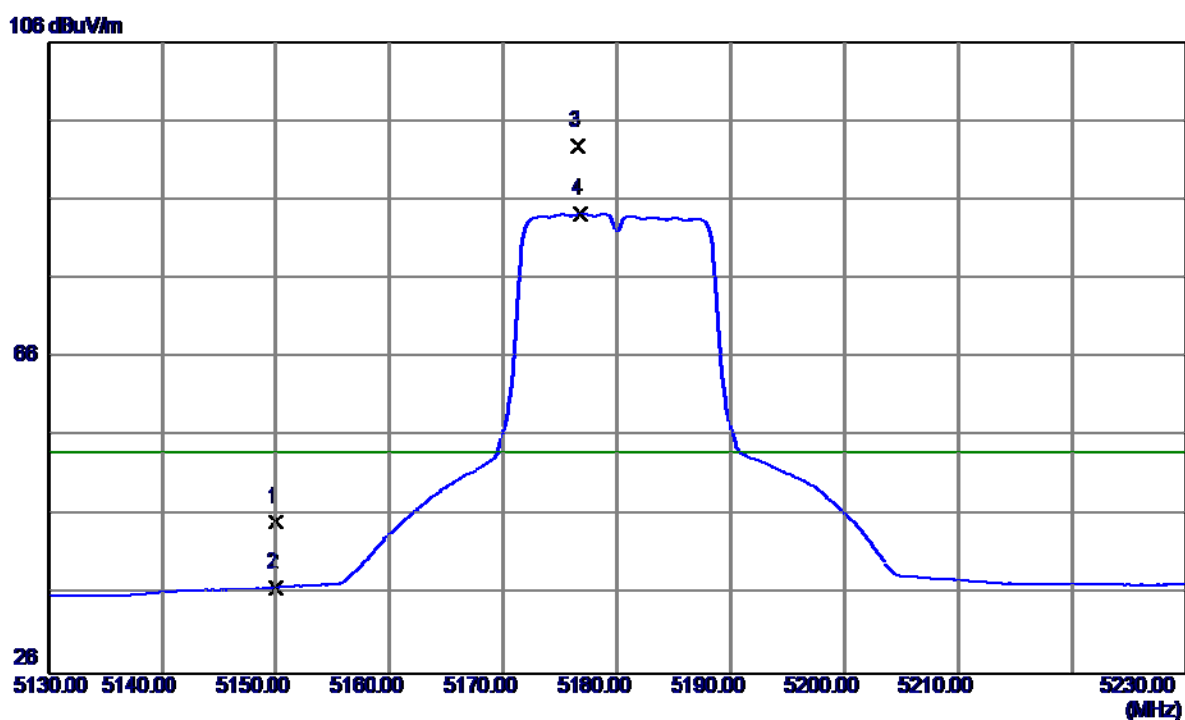


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	245.3400	40.43	-14.03	26.40	46.00	-19.60	Peak	
2	341.3700	40.53	-11.65	28.88	46.00	-17.12	Peak	
3	456.8000	49.98	-8.88	41.10	46.00	-4.90	QP	
4	742.9500	44.39	-4.67	39.72	46.00	-6.28	Peak	
5	816.6700	34.74	-2.98	31.76	46.00	-14.24	Peak	
6	965.0800	32.13	-0.27	31.86	54.00	-22.14	Peak	

ATTACHMENTD -RADIATED EMISSION (ABOVE 1000MHZ)

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

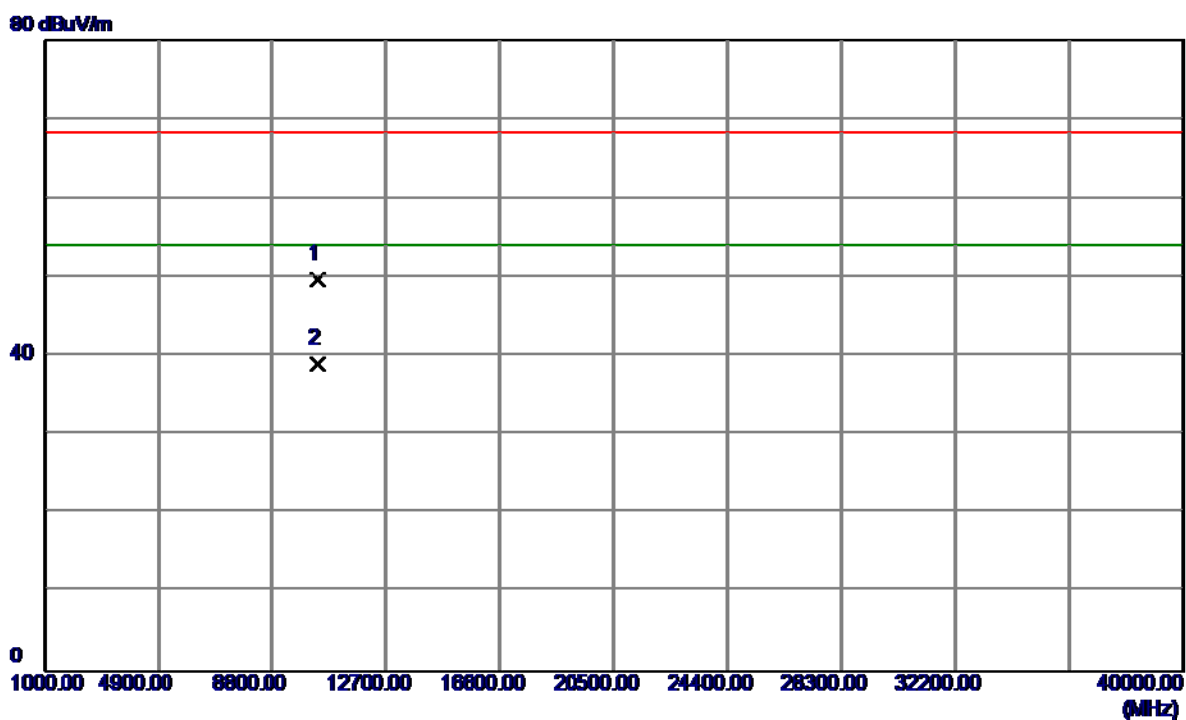
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5150.0000	6.20	39.00	45.20	68.30	-23.10	Peak	
2	5150.0000	-2.06	39.00	36.94	54.00	-17.06	AVG	
3	5176.6000	53.76	39.09	92.85	68.30	24.55	Peak	NO limit
4	5176.8000	45.16	39.09	84.25	54.00	30.25	AVG	NO limit

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

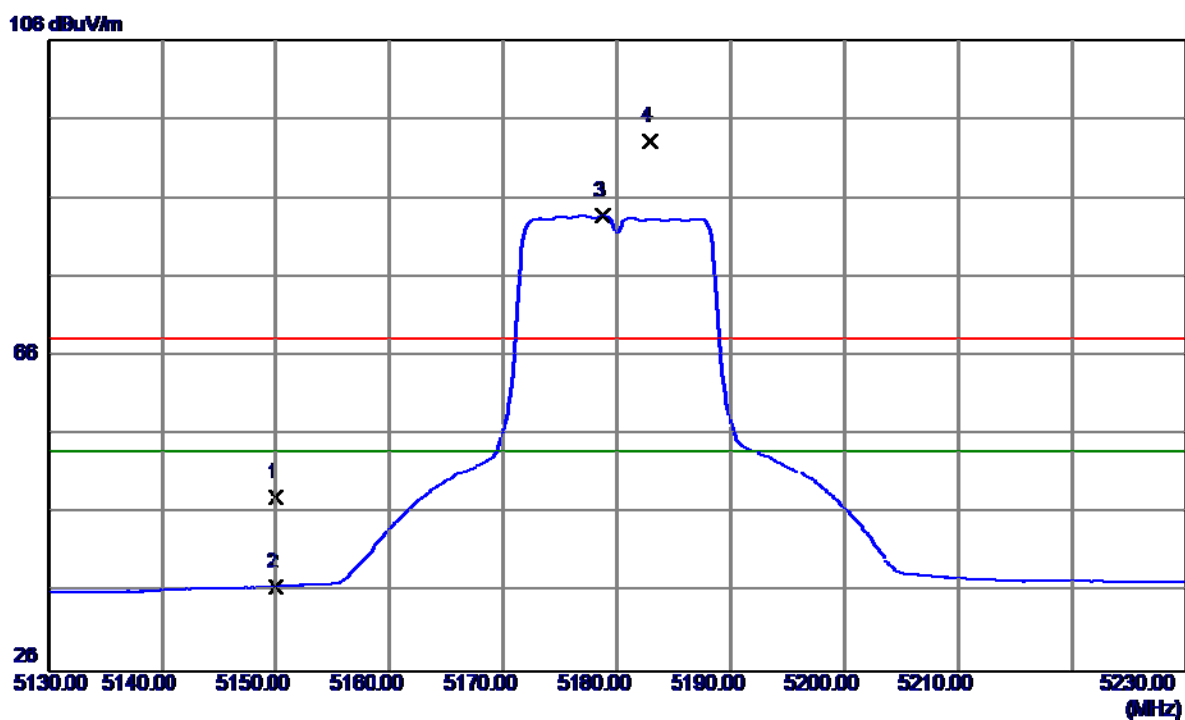
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10360.0599	38.60	11.11	49.71	68.30	-18.59	Peak	
2	10360.1800	27.96	11.11	39.07	54.00	-14.93	AVG	

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

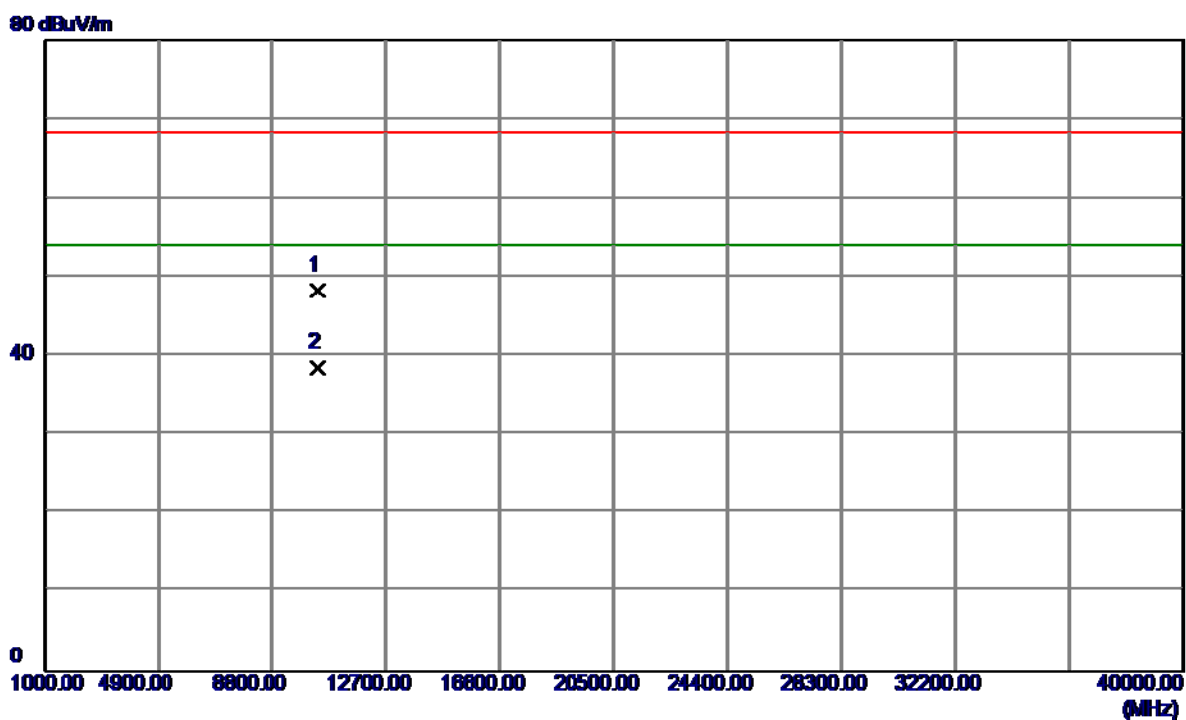
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5150.0000	9.01	39.00	48.01	68.30	-20.29	Peak	
2	5150.0000	-2.21	39.00	36.79	54.00	-17.21	AVG	
3	5178.8000	44.62	39.09	83.71	54.00	29.71	AVG	NO limit
4	5182.9000	54.13	39.11	93.24	68.30	24.94	Peak	NO limit

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

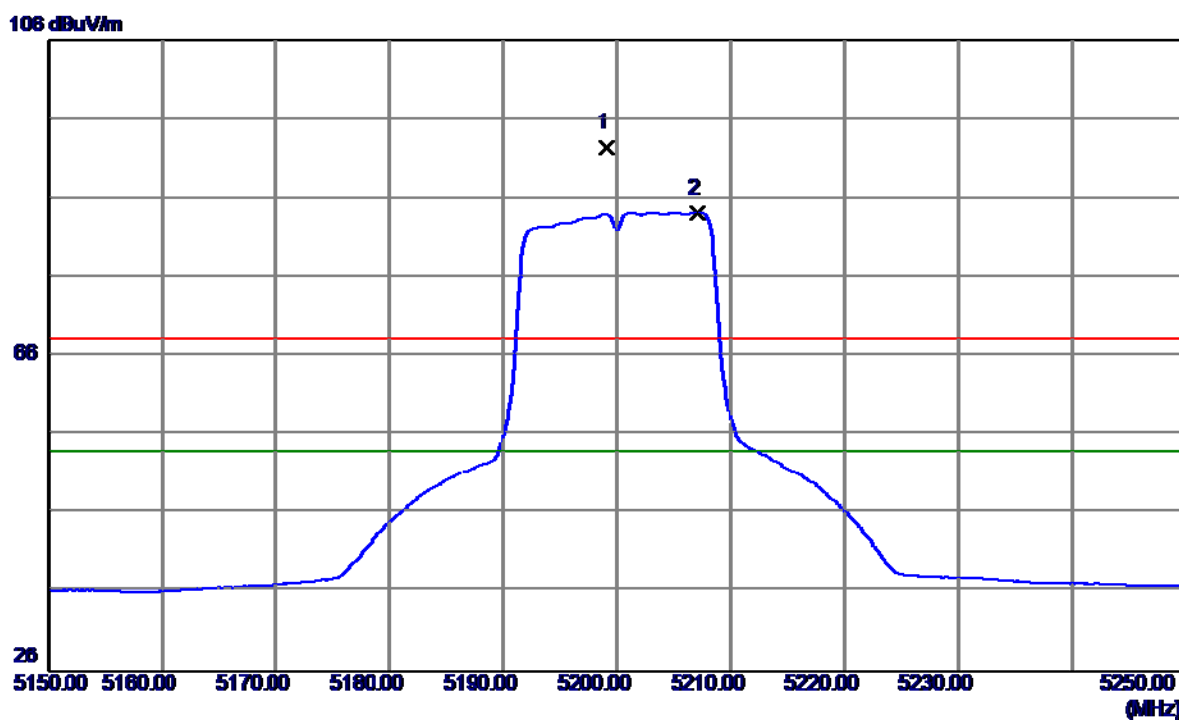
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10359.9800	37.17	11.11	48.28	68.30	-20.02	Peak	
2	10360.1600	27.47	11.11	38.58	54.00	-15.42	AVG	

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

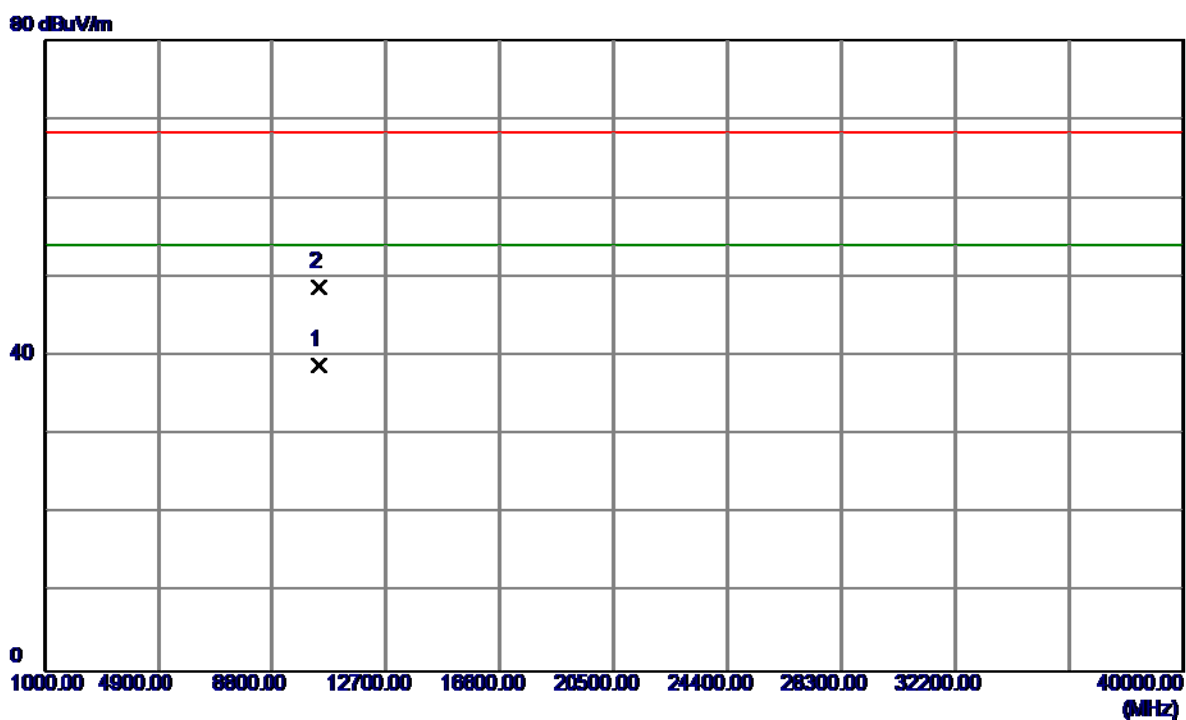
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5199.1000	53.22	39.16	92.38	68.30	24.08	Peak	NO limit
2	5207.1000	44.96	39.19	84.15	54.00	30.15	AVG	NO limit

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

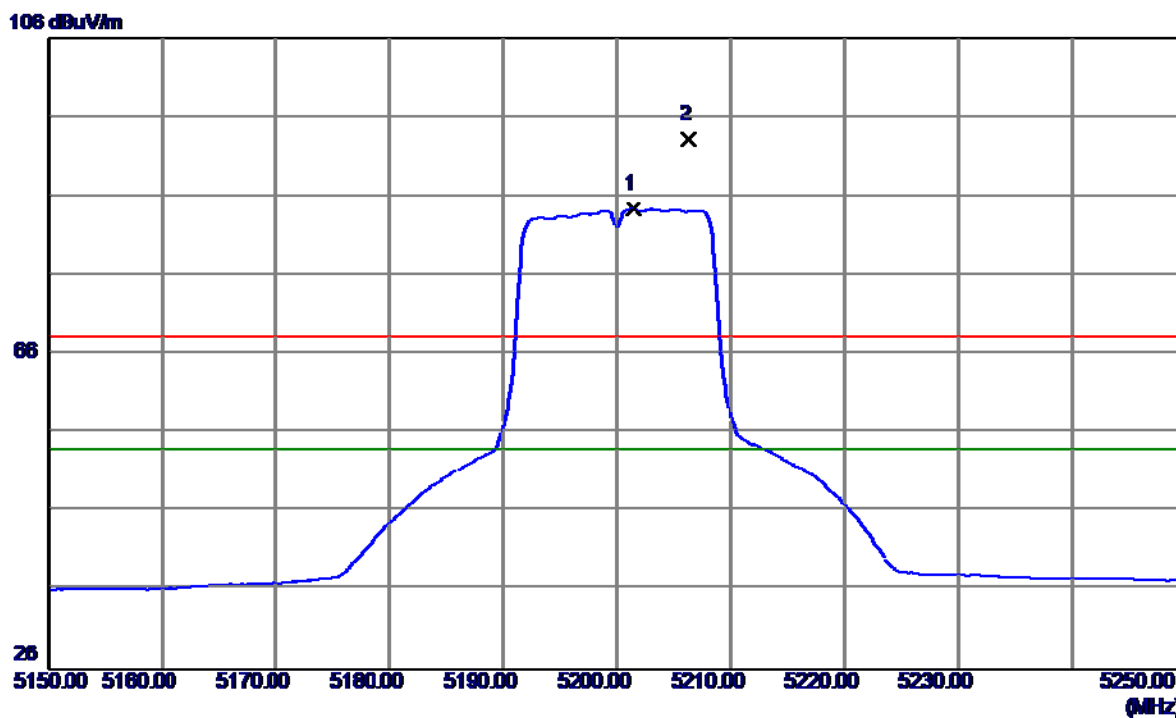
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10399.9800	27.85	11.05	38.90	54.00	-15.10	AVG	
2	10400.2600	37.82	11.05	48.87	68.30	-19.43	Peak	

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

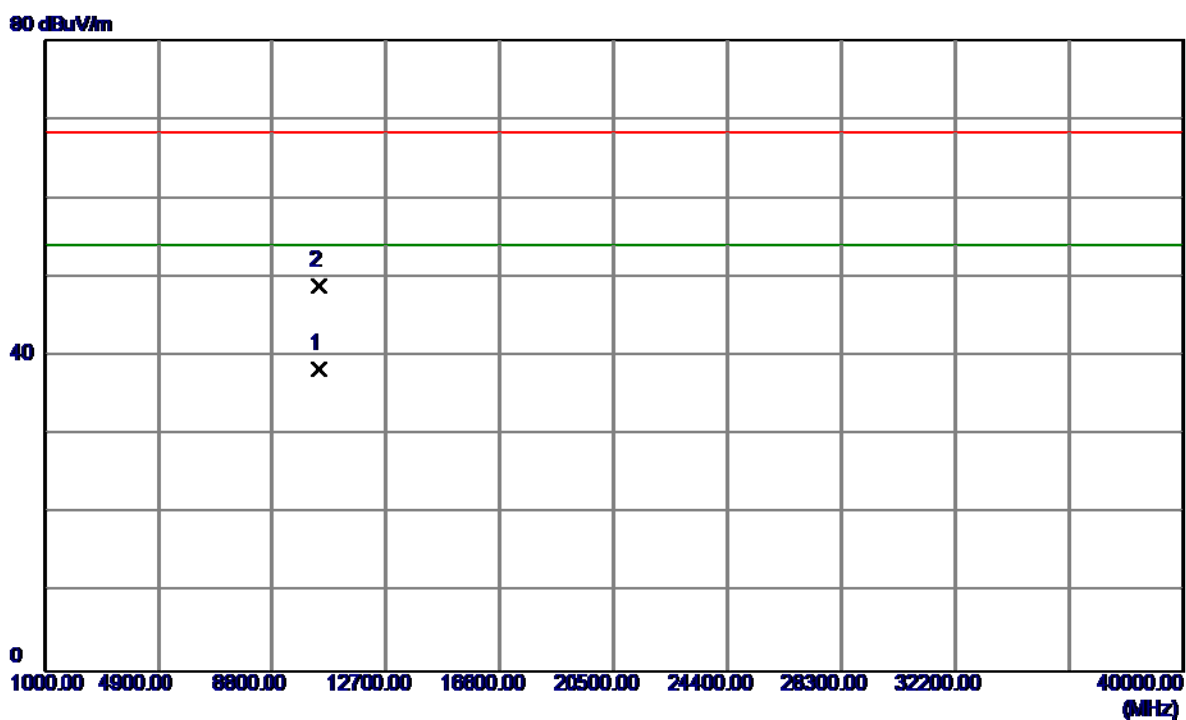
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5201.4000	45.17	39.17	84.34	54.00	30.34	AVG	NO limit
2	5206.3000	54.06	39.18	93.24	68.30	24.94	Peak	NO limit

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

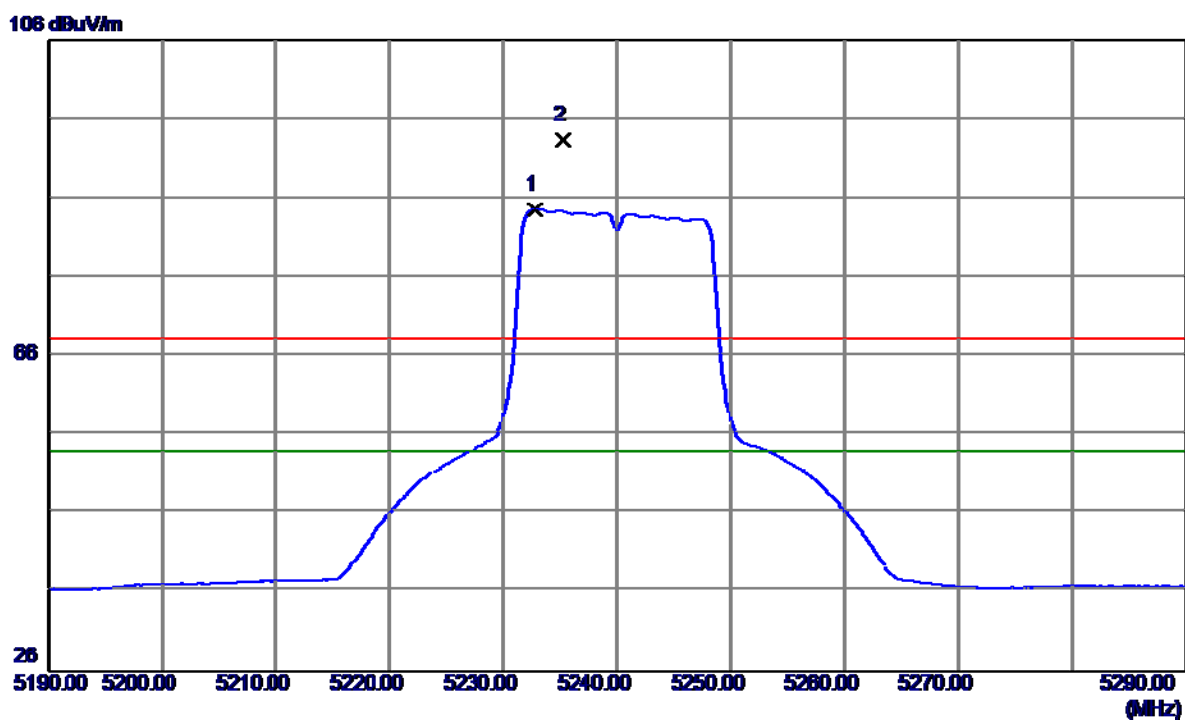
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10400.2400	27.36	11.05	38.41	54.00	-15.59	AVG	
2	10400.3800	37.83	11.05	48.88	68.30	-19.42	Peak	

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

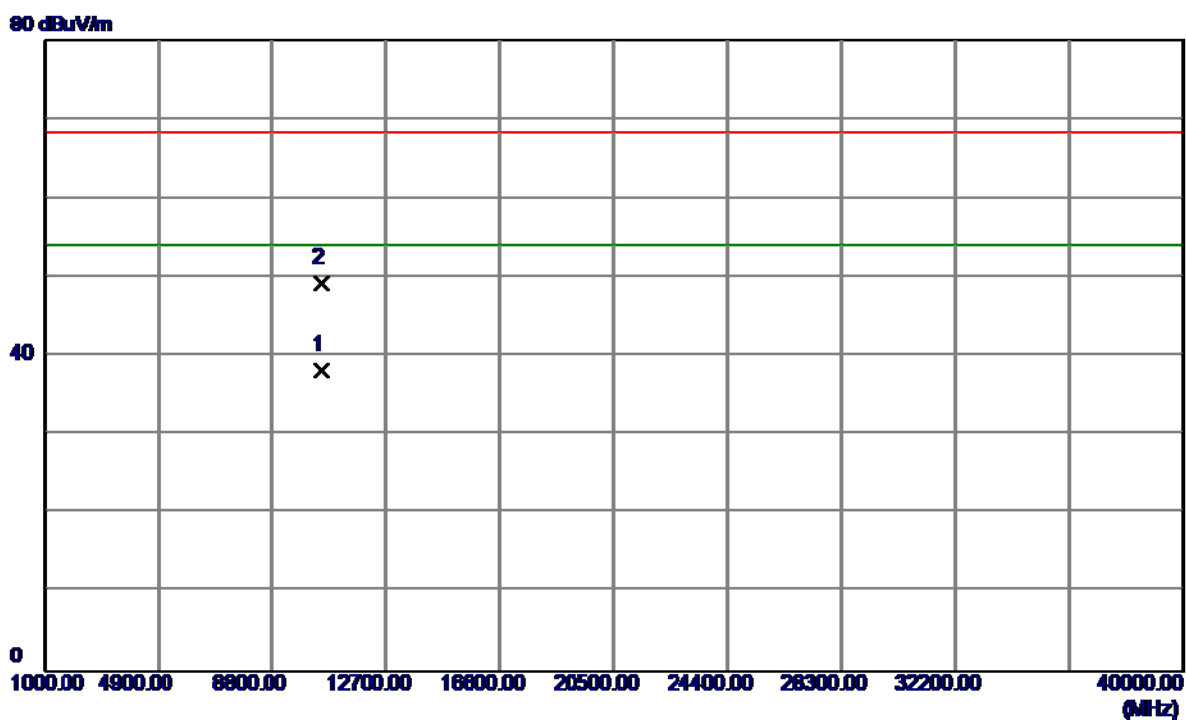
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5232.8000	45.35	39.27	84.62	54.00	30.62	AVG	NO limit
2	5235.2000	54.02	39.28	93.30	68.30	25.00	Peak	NO limit

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

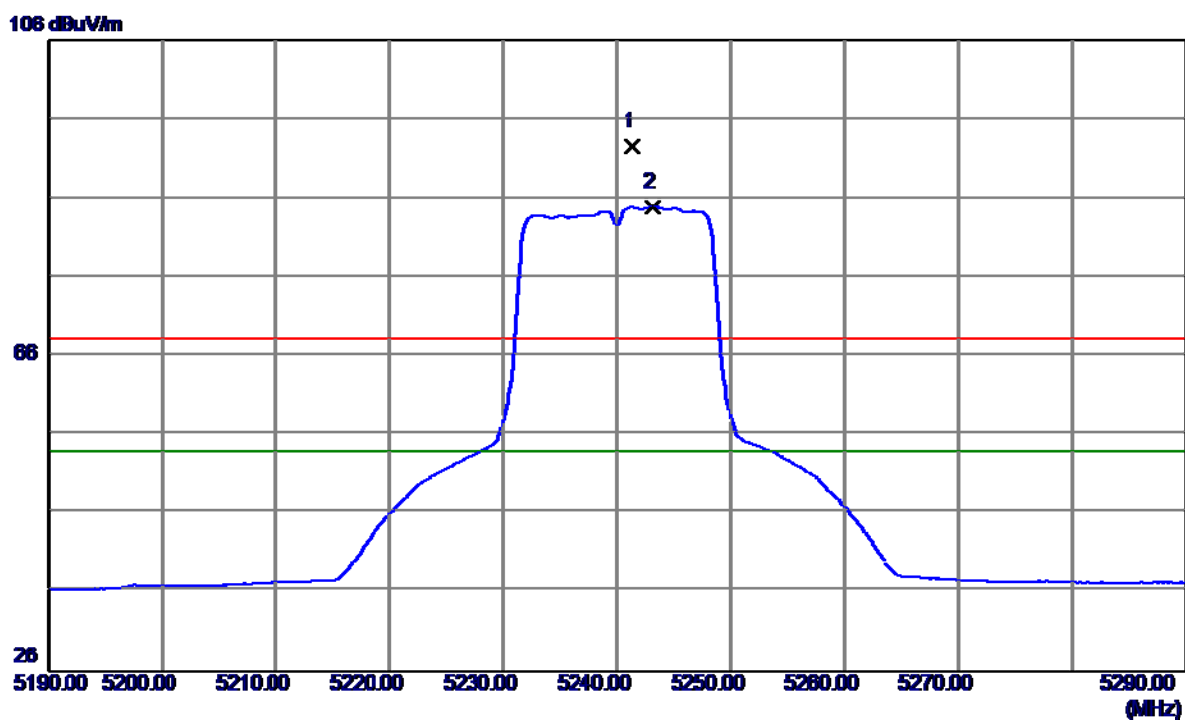
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10480.0599	27.37	10.94	38.31	54.00	-15.69	AVG	
2	10480.2000	38.38	10.94	49.32	68.30	-18.98	Peak	

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

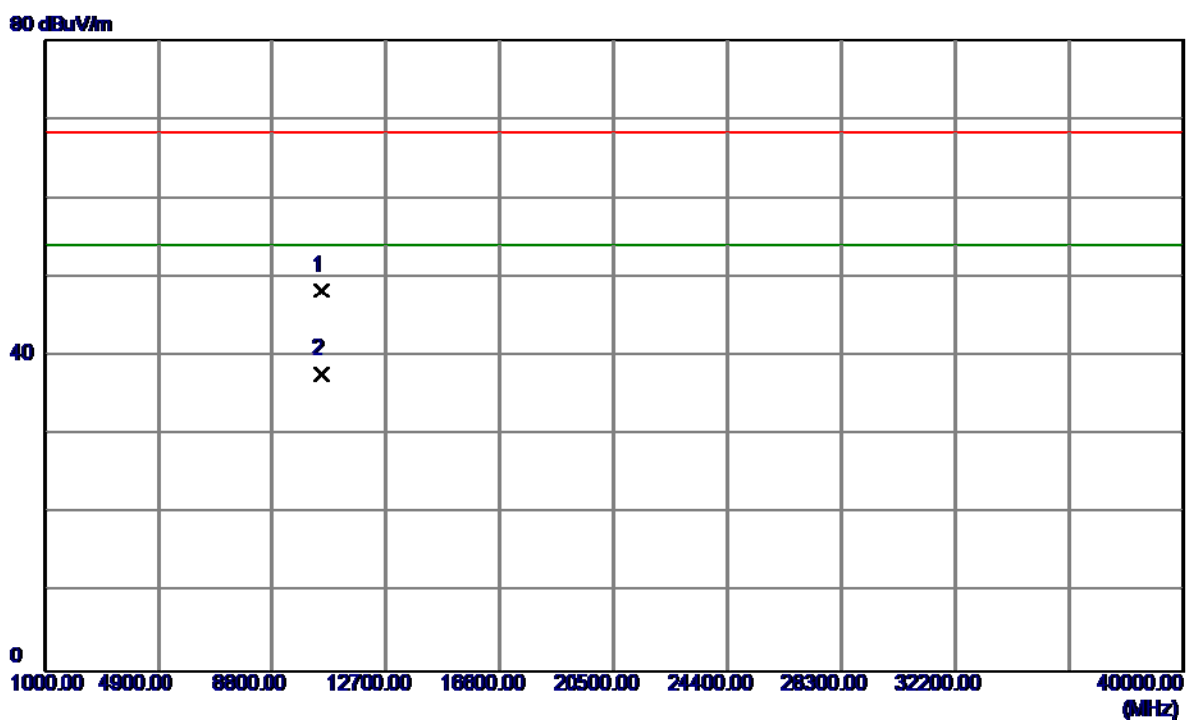
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5241.3000	53.31	39.30	92.61	68.30	24.31	Peak	NO limit
2	5243.1000	45.54	39.31	84.85	54.00	30.85	AVG	NO limit

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

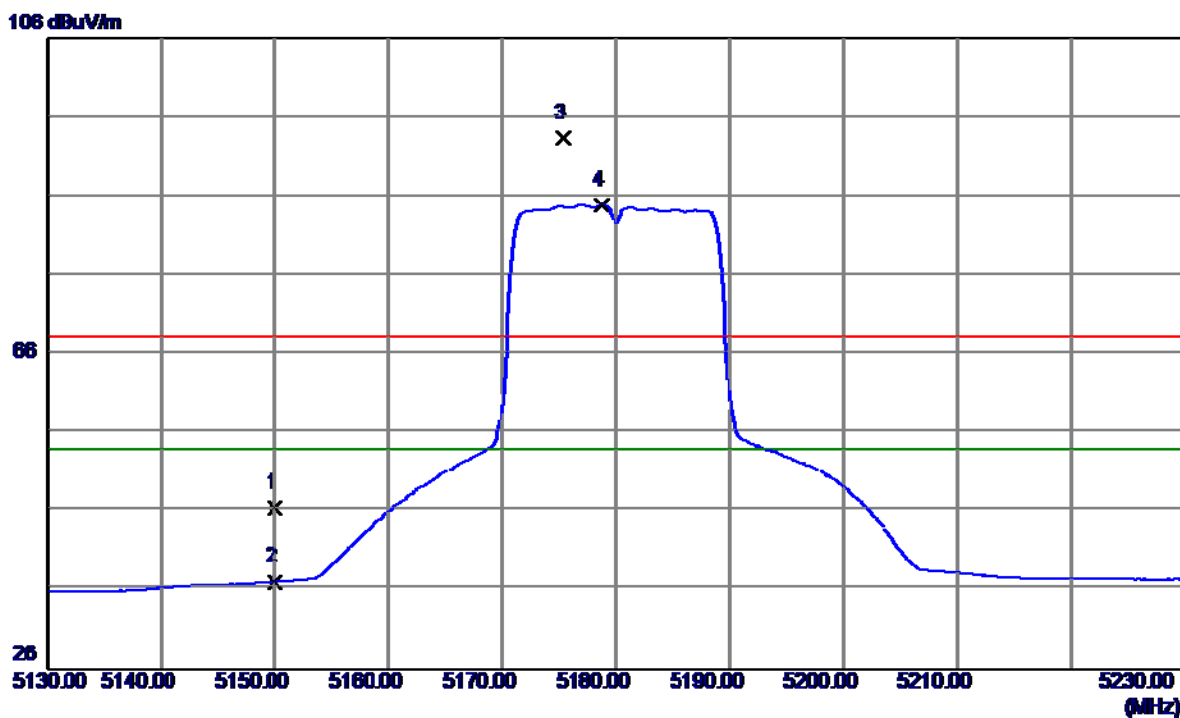
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10479.9000	37.36	10.94	48.30	68.30	-20.00	Peak	
2	10480.0199	26.81	10.94	37.75	54.00	-16.25	AVG	

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

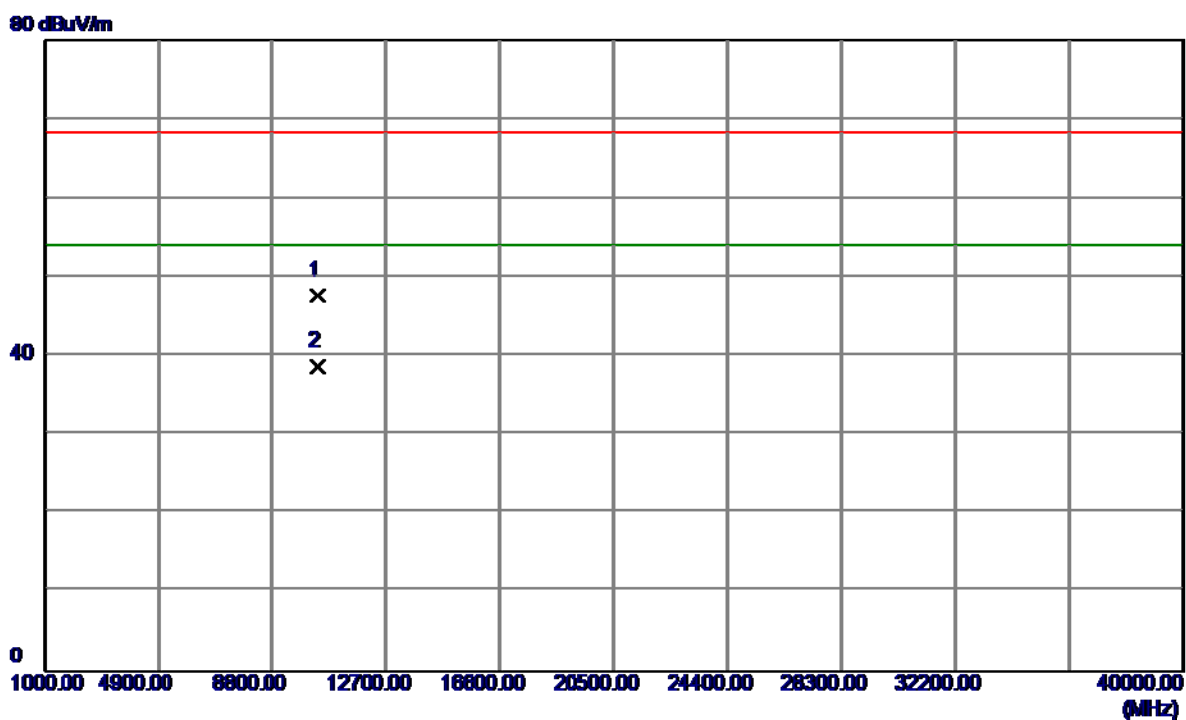
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5150.0000	7.49	39.00	46.49	68.30	-21.81	Peak	
2	5150.0000	-1.88	39.00	37.12	54.00	-16.88	AVG	
3	5175.3000	54.30	39.08	93.38	68.30	25.08	Peak	NO limit
4	5178.8000	45.75	39.09	84.84	54.00	30.84	AVG	NO limit

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

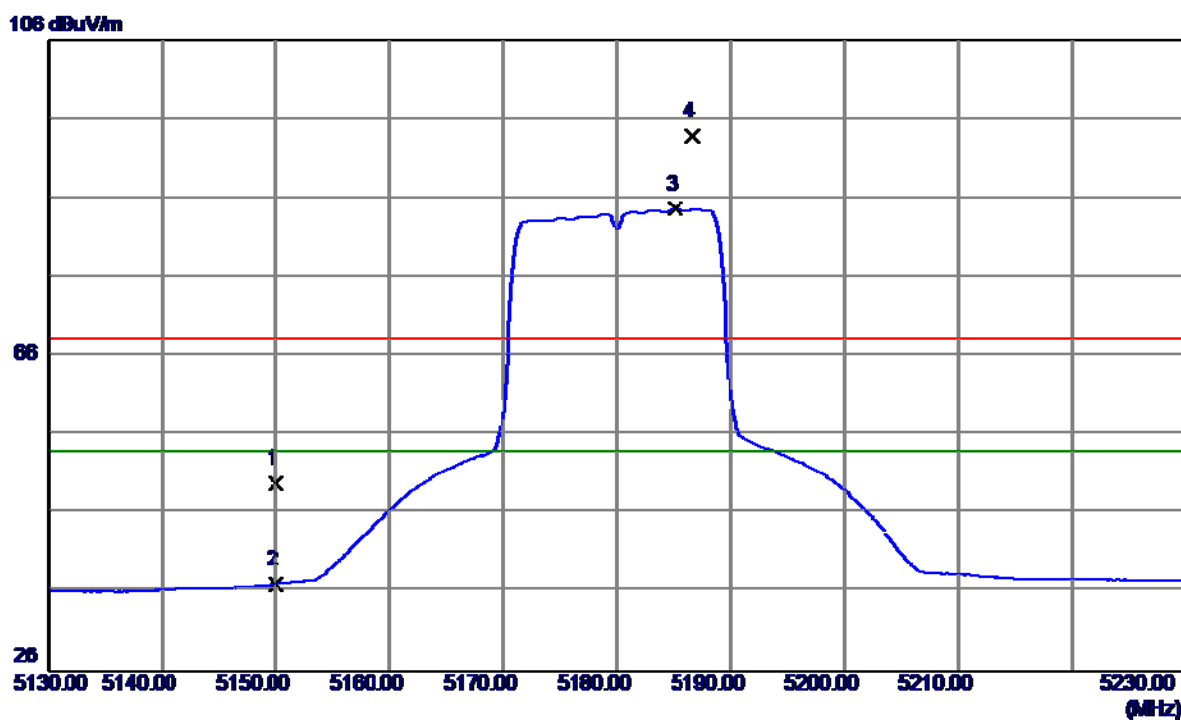
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10359.9800	36.65	11.11	47.76	68.30	-20.54	Peak	
2	10360.1000	27.61	11.11	38.72	54.00	-15.28	AVG	

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

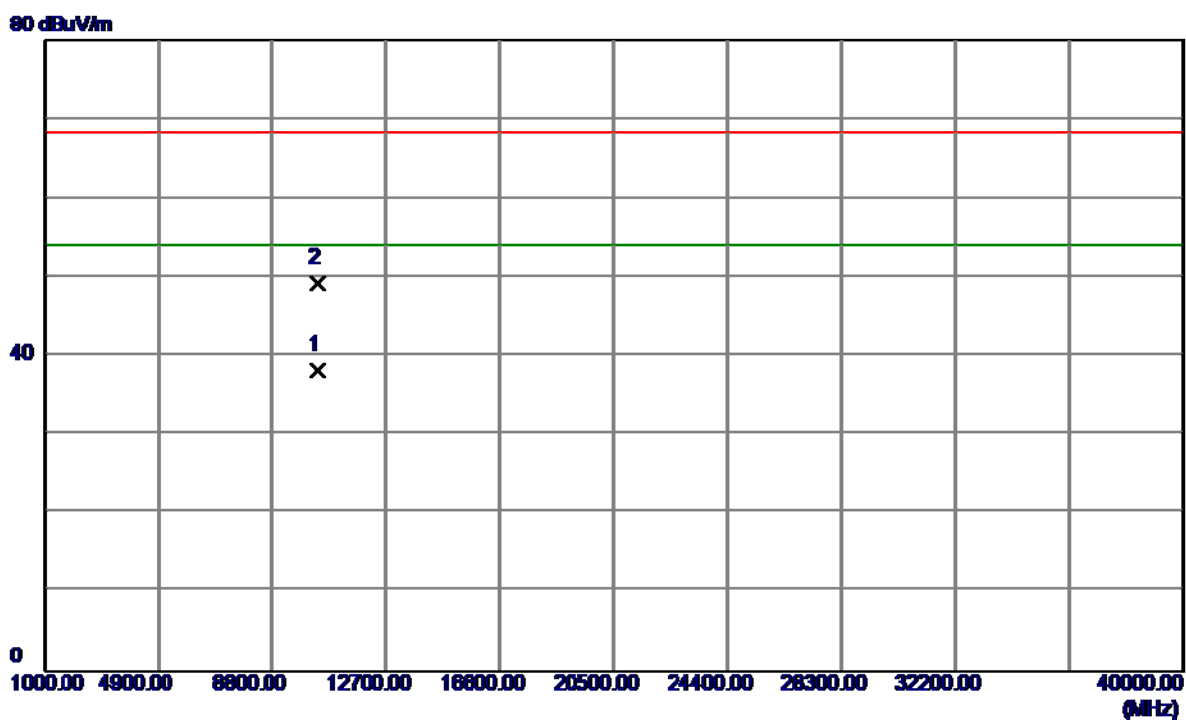
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5150.0000	10.79	39.00	49.79	68.30	-18.51	Peak	
2	5150.0000	-1.91	39.00	37.09	54.00	-16.91	AVG	
3	5185.1000	45.53	39.11	84.64	54.00	30.64	AVG	NO limit
4	5186.7000	54.67	39.12	93.79	68.30	25.49	Peak	NO limit

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

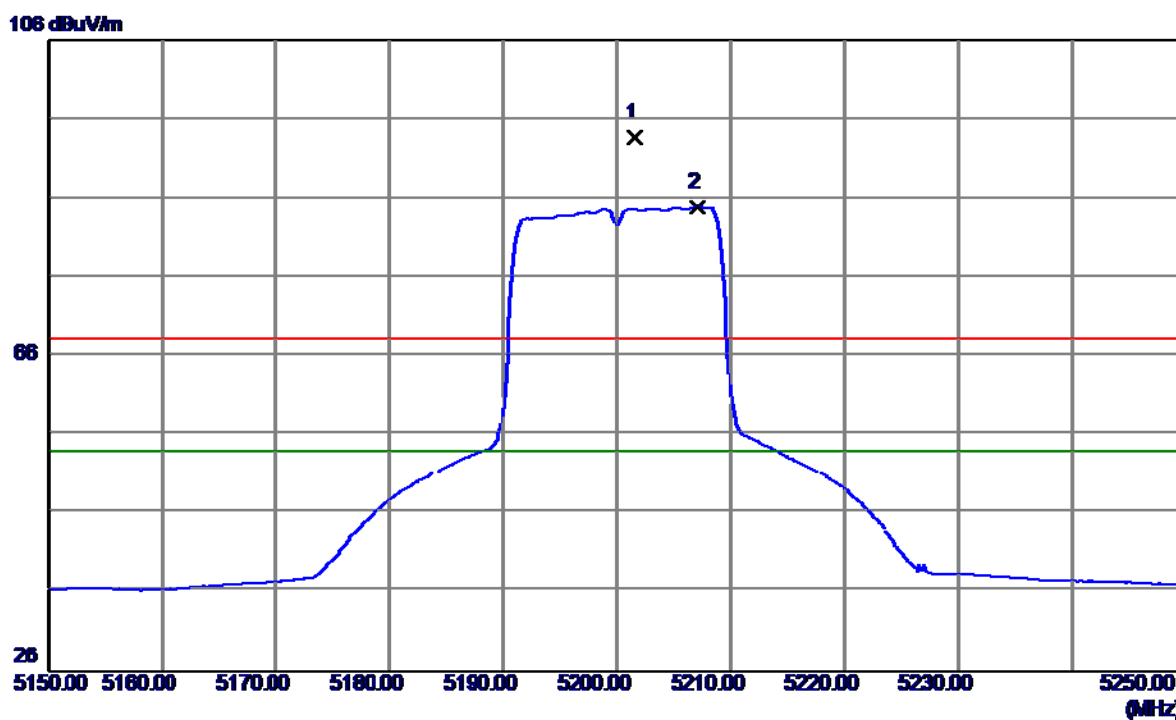
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10359.9600	27.15	11.11	38.26	54.00	-15.74	AVG	
2	10360.0800	38.11	11.11	49.22	68.30	-19.08	Peak	

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

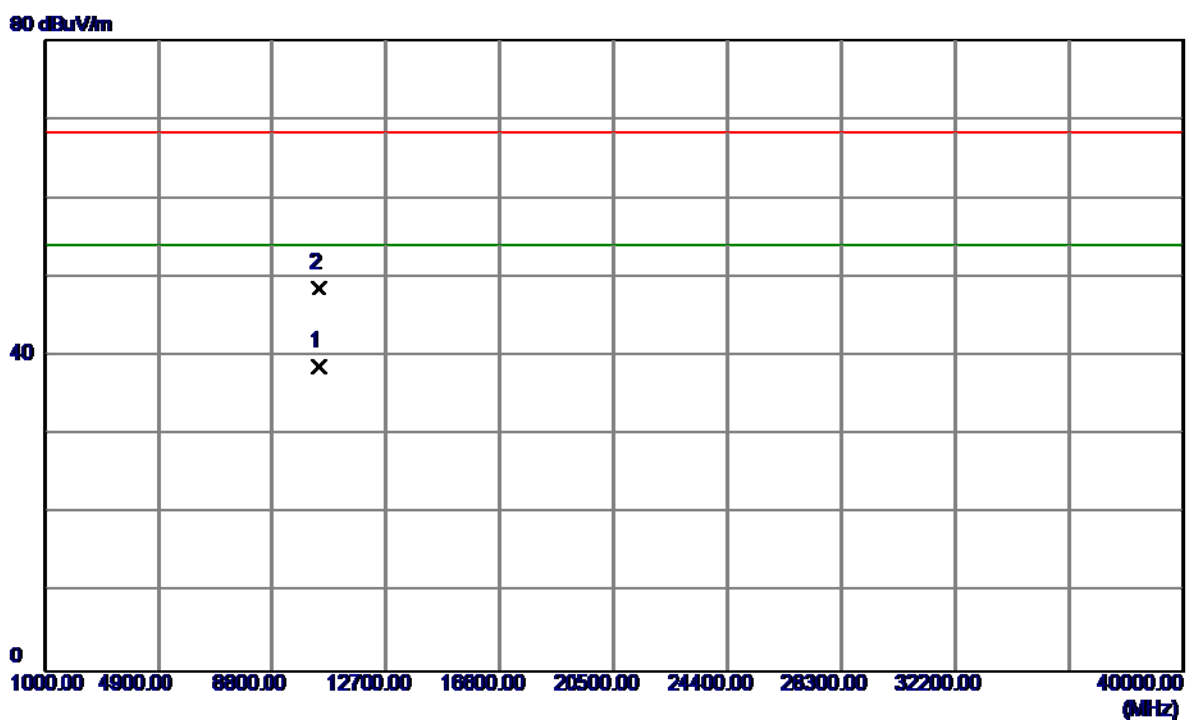
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5201.6000	54.58	39.17	93.75	68.30	25.45	Peak	NO limit
2	5207.1000	45.68	39.19	84.87	54.00	30.87	AVG	NO limit

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

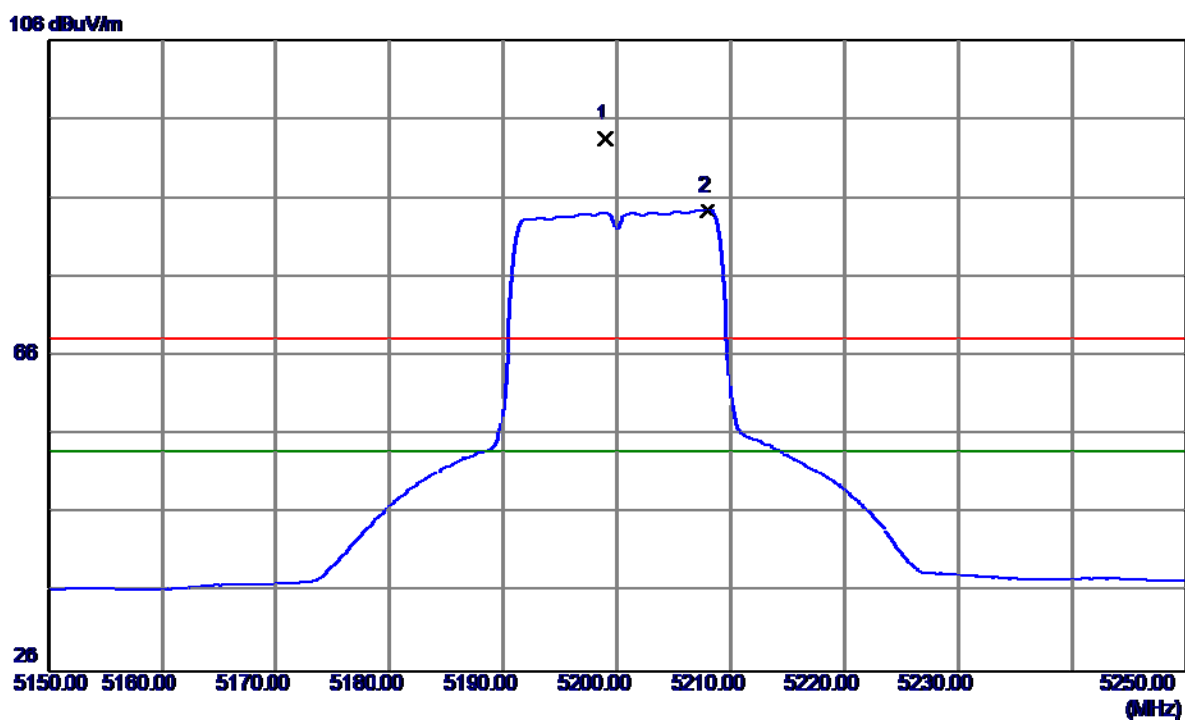
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10399.8400	27.65	11.05	38.70	54.00	-15.30	AVG	
2	10399.9400	37.61	11.05	48.66	68.30	-19.64	Peak	

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

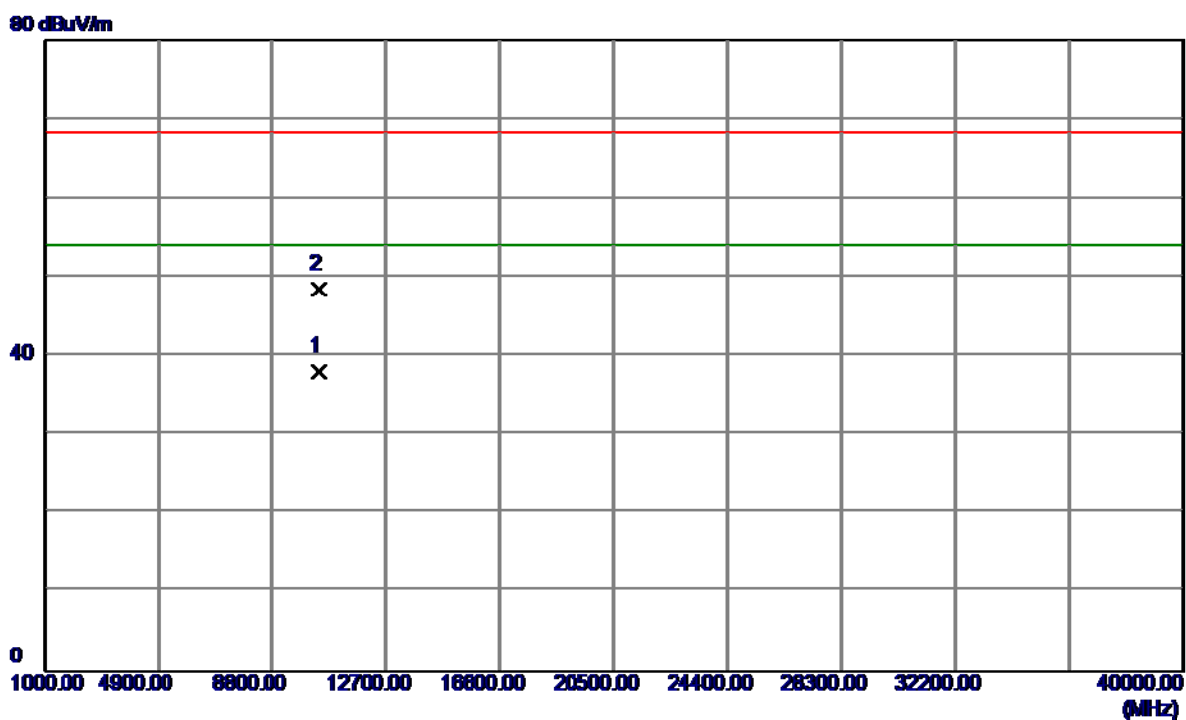
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5199.0000	54.36	39.16	93.52	68.30	25.22	Peak	NO limit
2	5208.0000	45.25	39.19	84.44	54.00	30.44	AVG	NO limit

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

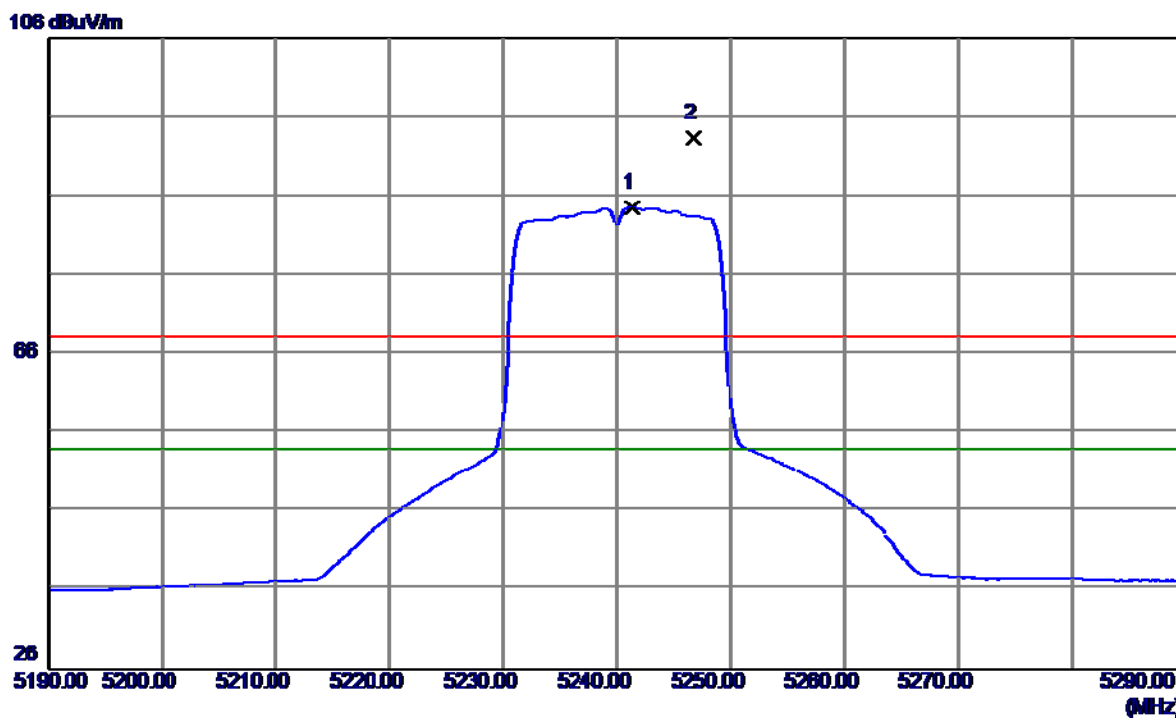
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10400.0199	27.09	11.05	38.14	54.00	-15.86	AVG	
2	10400.0800	37.42	11.05	48.47	68.30	-19.83	Peak	

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

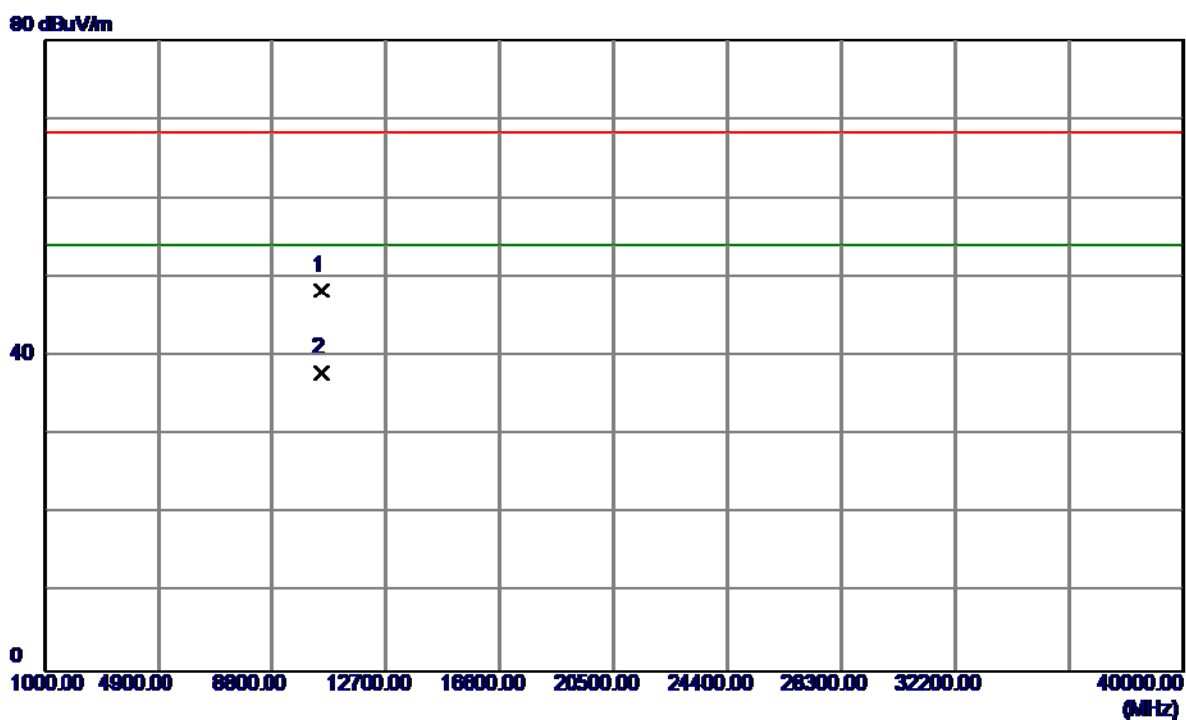
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5241.3000	45.33	39.30	84.63	54.00	30.63	AVG	NO limit
2	5246.8000	53.99	39.32	93.31	68.30	25.01	Peak	NO limit

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

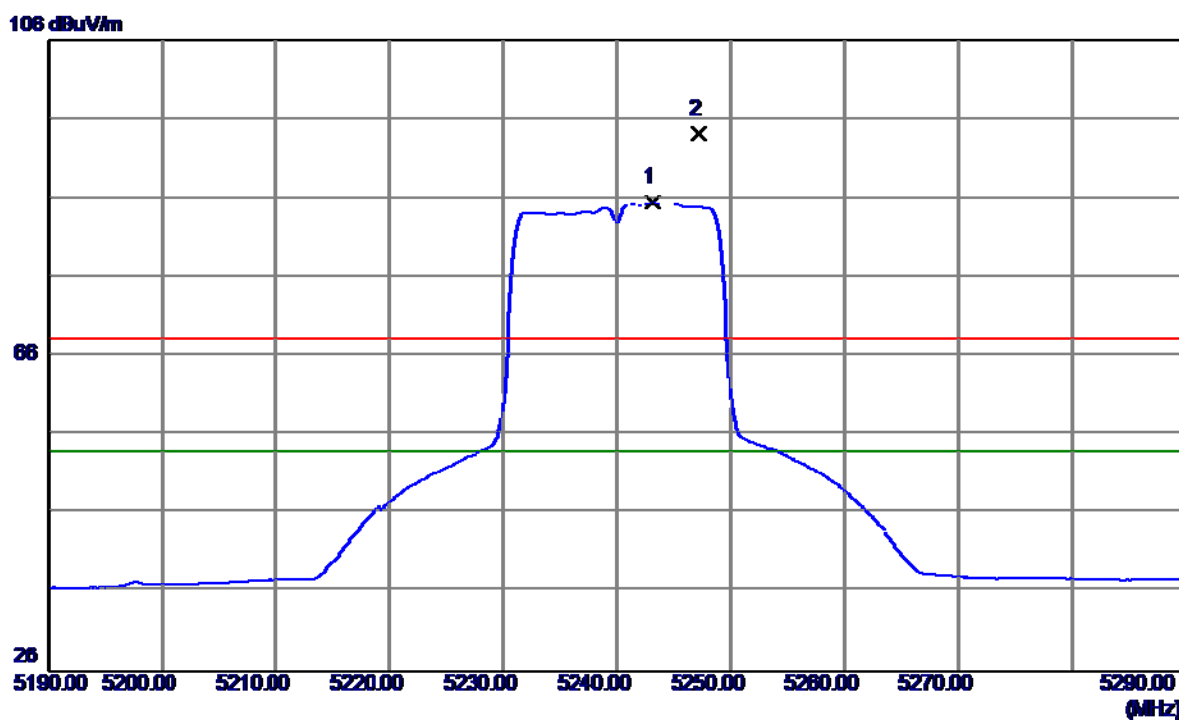
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10480.0800	37.40	10.94	48.34	68.30	-19.96	Peak	
2	10480.1400	26.96	10.94	37.90	54.00	-16.10	AVG	

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

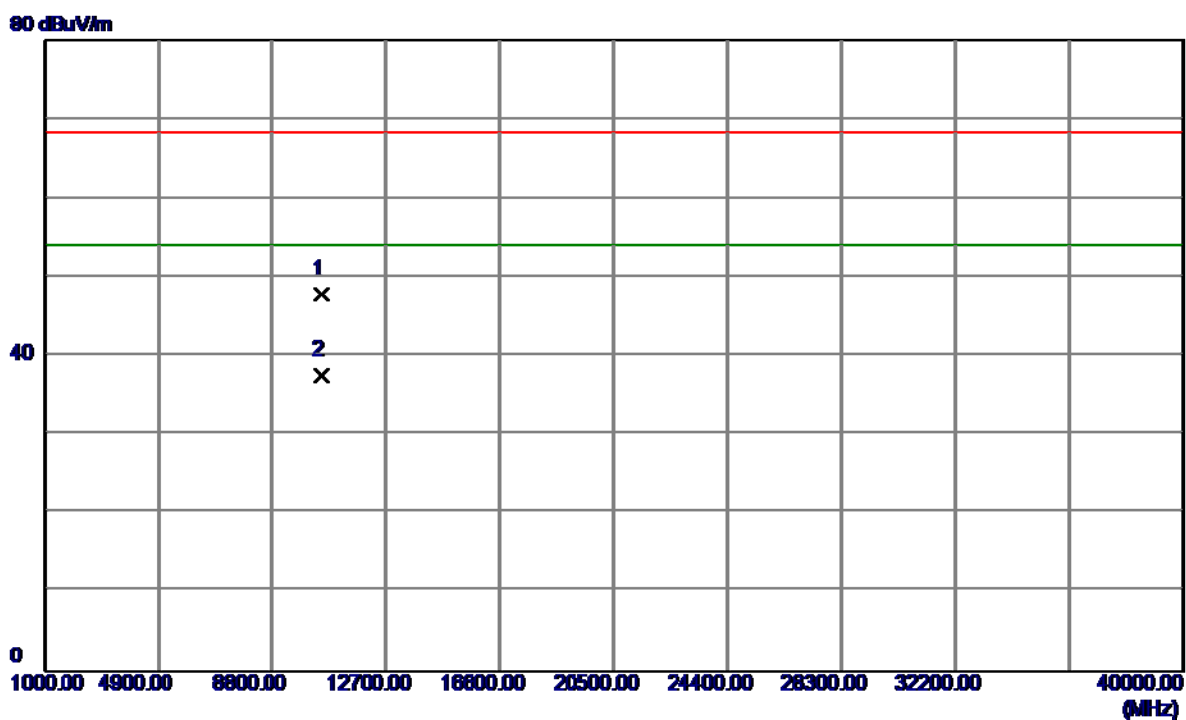
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5243.1000	46.15	39.31	85.46	54.00	31.46	AVG	NO limit
2	5247.2000	54.79	39.32	94.11	68.30	25.81	Peak	NO limit

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

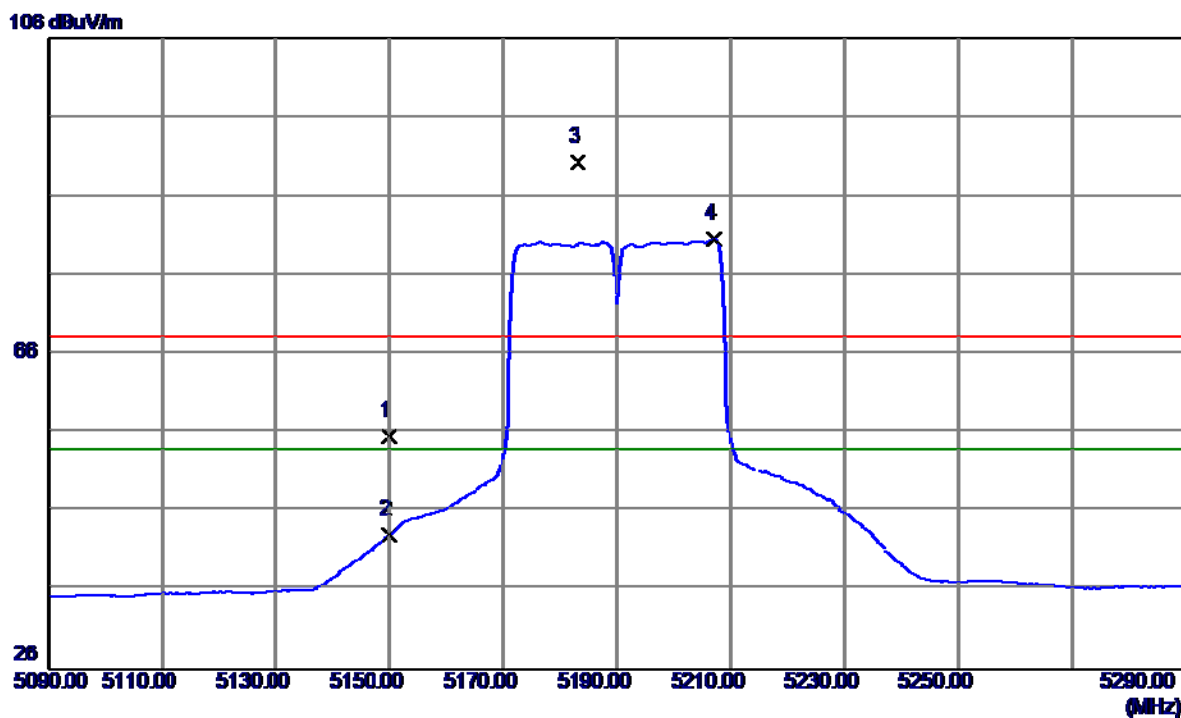
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10479.8800	36.96	10.94	47.90	68.30	-20.40	Peak	
2	10480.0199	26.67	10.94	37.61	54.00	-16.39	AVG	

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

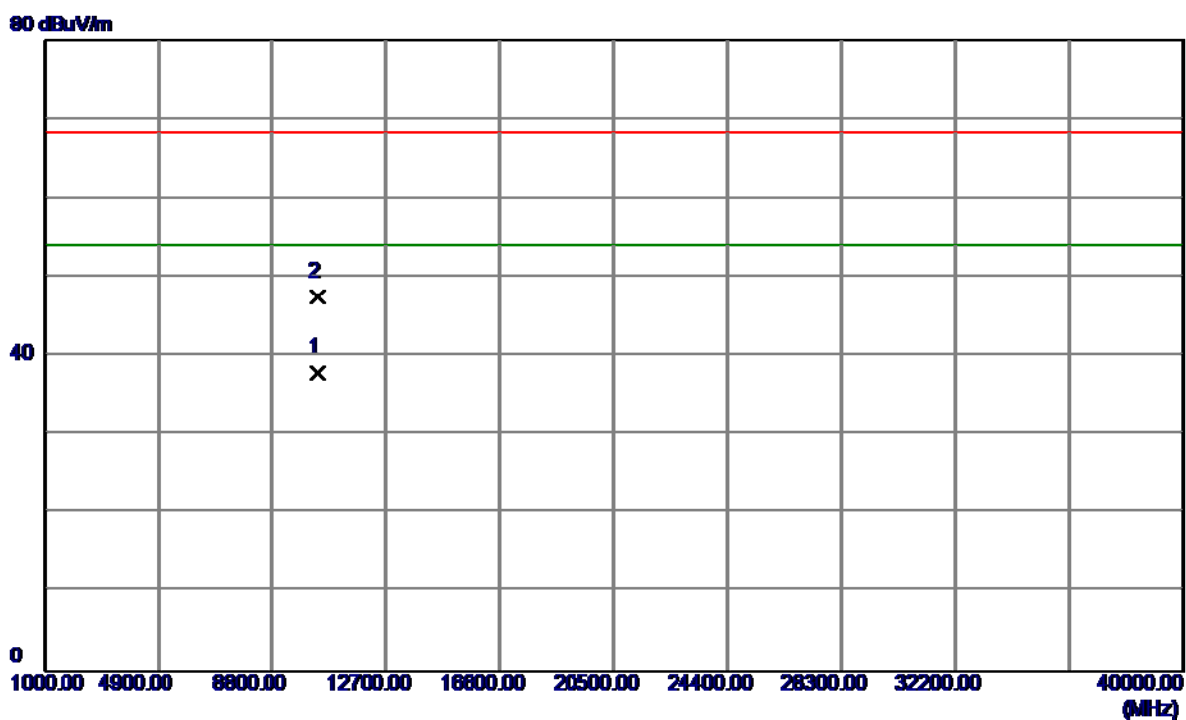
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5150.0000	16.62	39.00	55.62	68.30	-12.68	Peak	
2	5150.0000	4.11	39.00	43.11	54.00	-10.89	AVG	
3	5183.2000	51.28	39.11	90.39	68.30	22.09	Peak	NO limit
4	5207.2000	41.33	39.19	80.52	54.00	26.52	AVG	NO limit

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

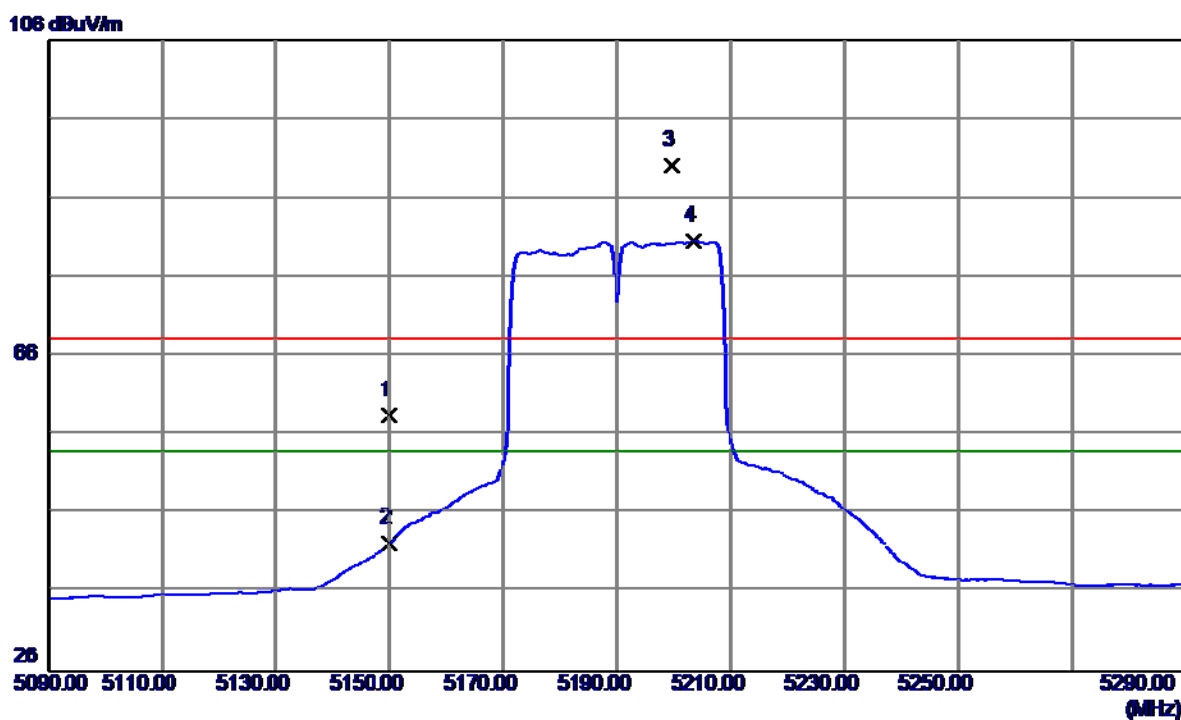
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10380.0000	26.79	11.08	37.87	54.00	-16.13	AVG	
2	10380.0599	36.44	11.08	47.52	68.30	-20.78	Peak	

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

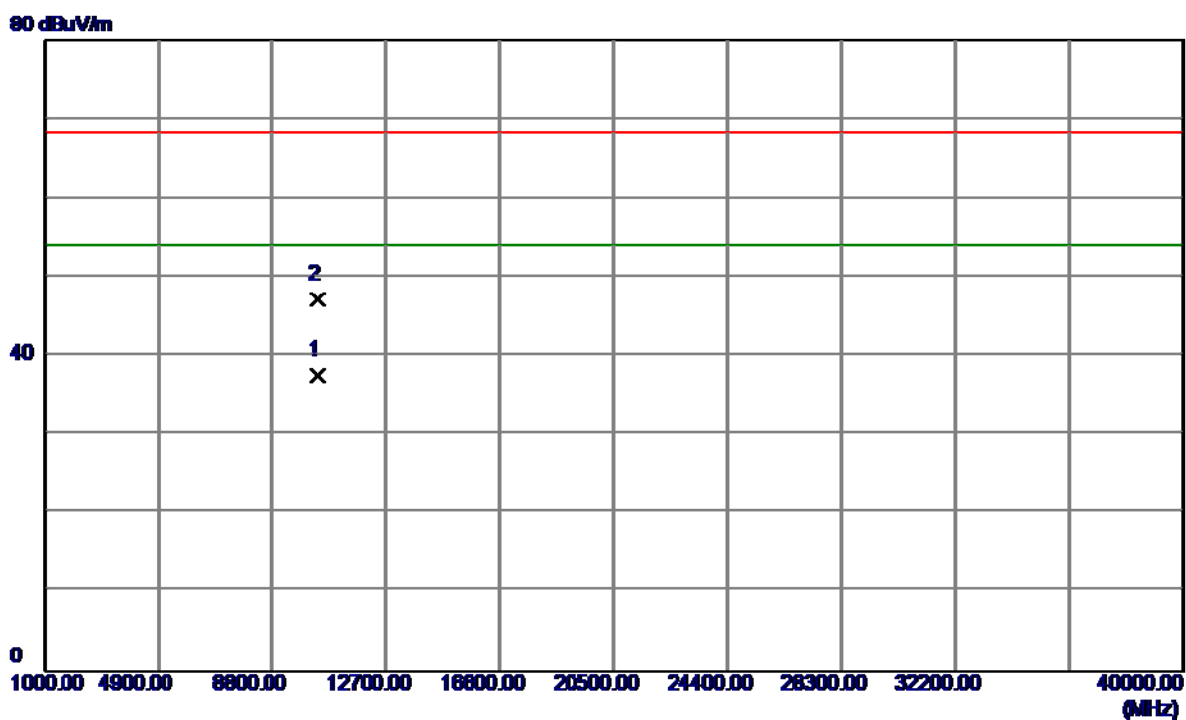
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5150.0000	19.46	39.00	58.46	68.30	-9.84	Peak	
2	5150.0000	3.26	39.00	42.26	54.00	-11.74	AVG	
3	5199.6000	51.02	39.16	90.18	68.30	21.88	Peak	NO limit
4	5203.6000	41.40	39.18	80.58	54.00	26.58	AVG	NO limit

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

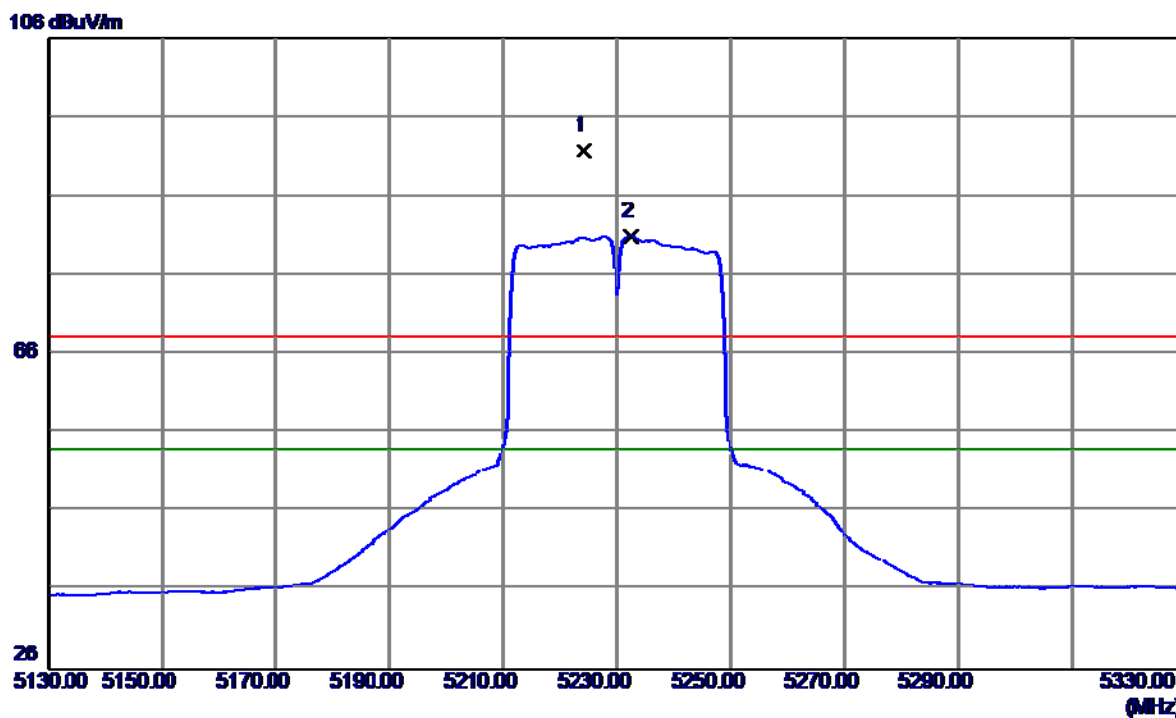
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10379.9400	26.53	11.08	37.61	54.00	-16.39	AVG	
2	10380.0000	36.07	11.08	47.15	68.30	-21.15	Peak	

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

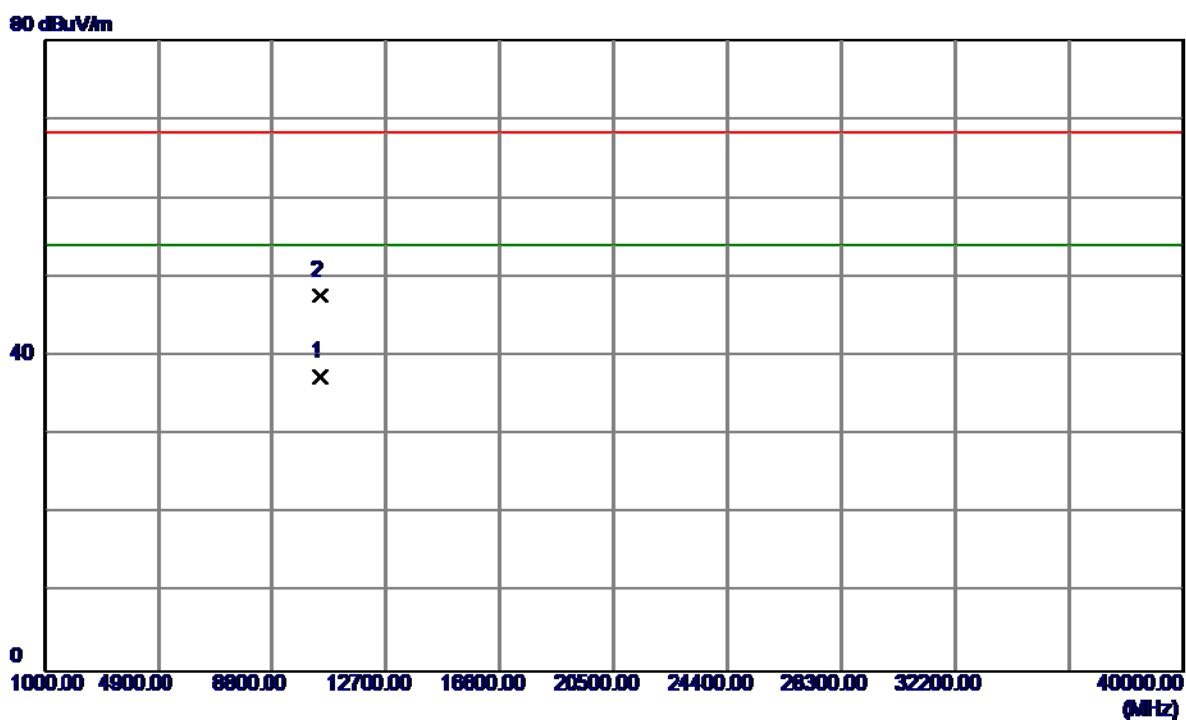
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5224.2000	52.45	39.24	91.69	68.30	23.39	Peak	NO limit
2	5232.4000	41.66	39.27	80.93	54.00	26.93	AVG	NO limit

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

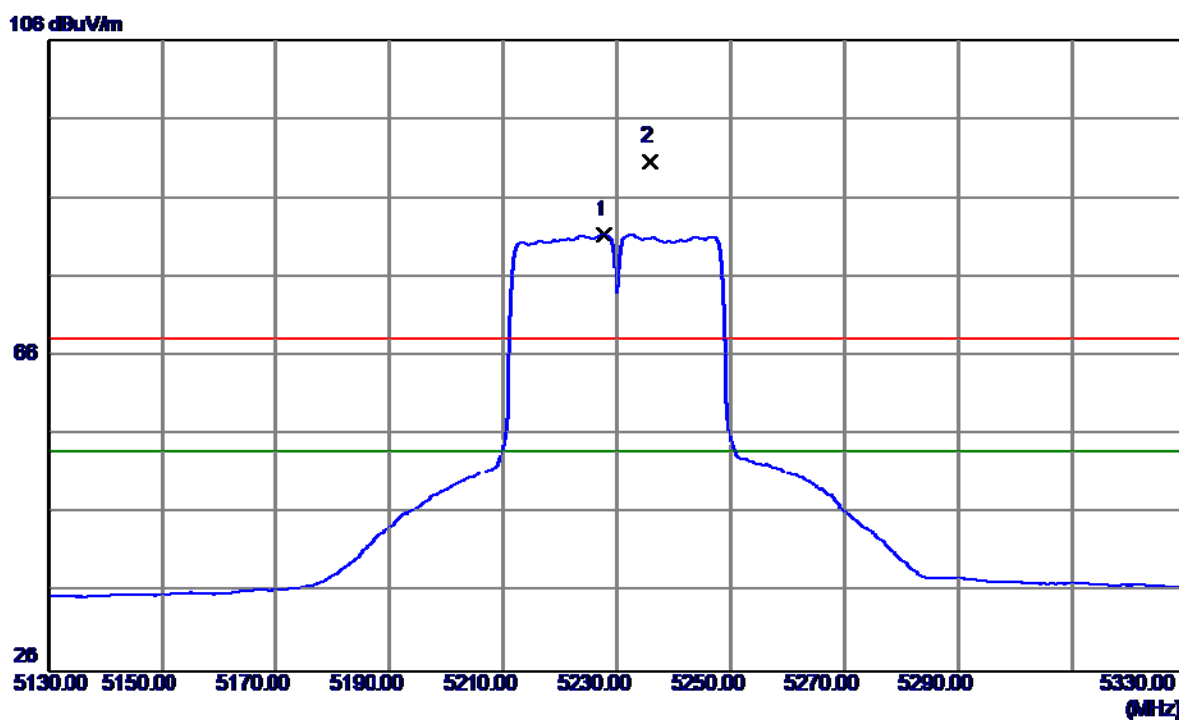
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10460.0199	26.50	10.97	37.47	54.00	-16.53	AVG	
2	10460.1000	36.65	10.97	47.62	68.30	-20.68	Peak	

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

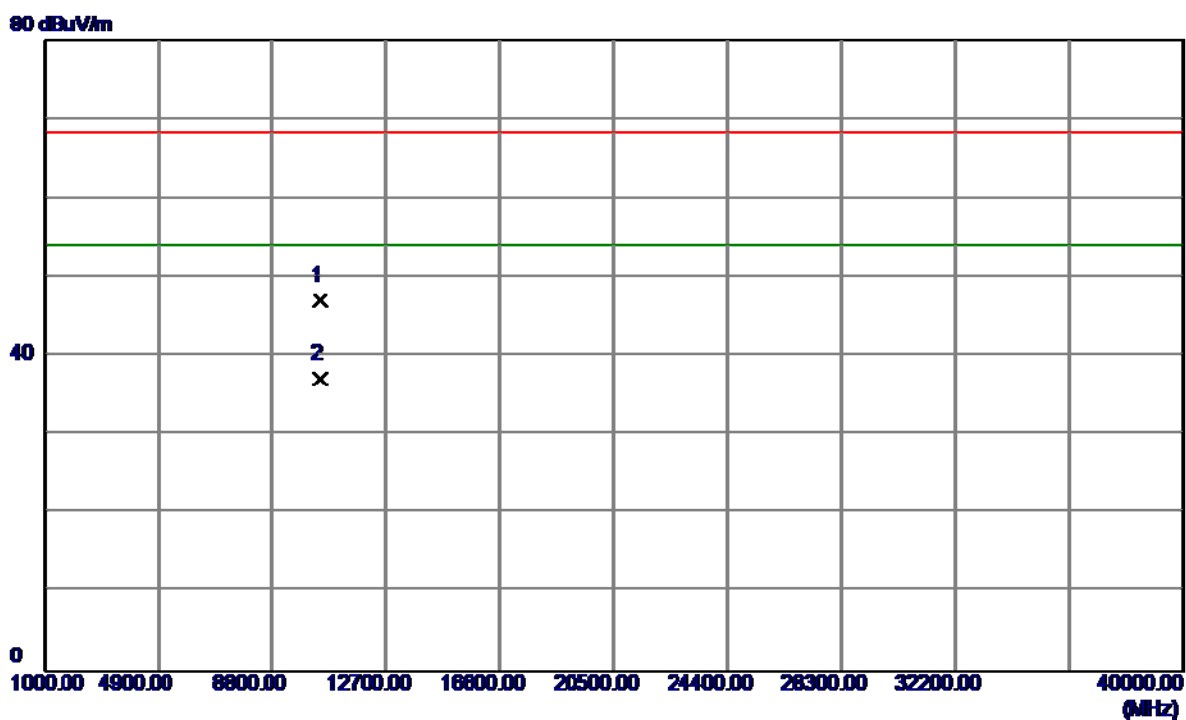
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5227.8000	42.15	39.26	81.41	54.00	27.41	AVG	NO limit
2	5235.8000	51.40	39.28	90.68	68.30	22.38	Peak	NO limit

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

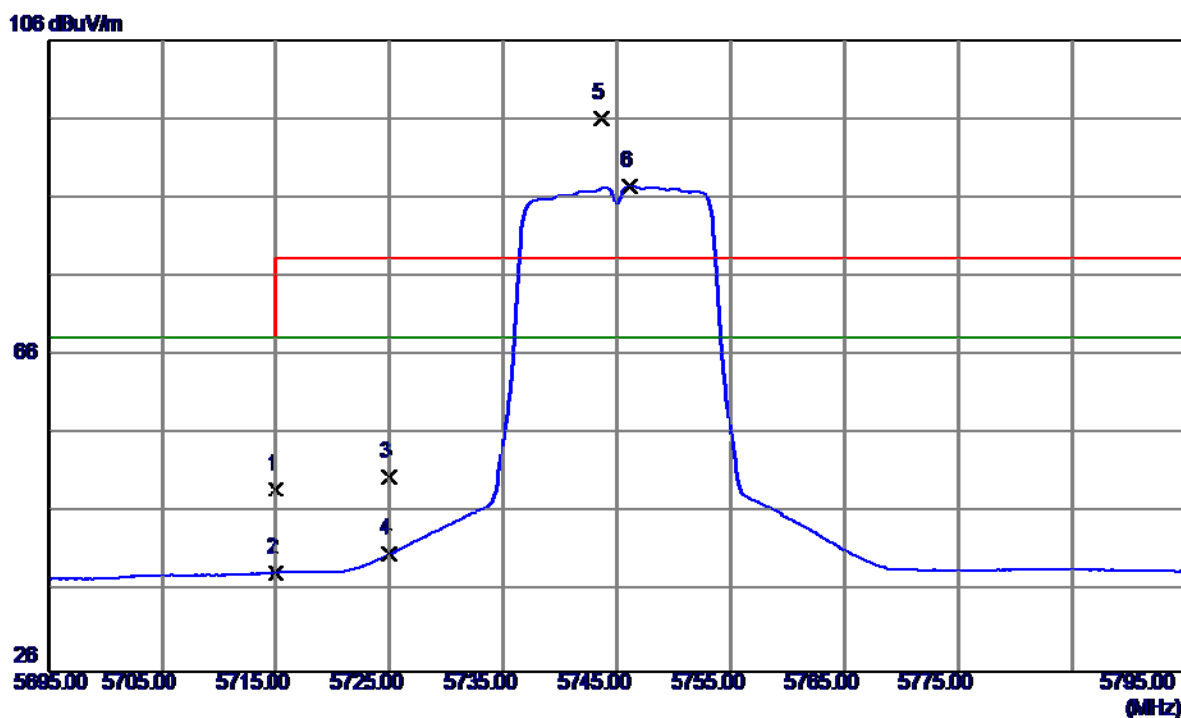
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	10459.9600	36.02	10.97	46.99	68.30	-21.31	Peak	
2	10460.0599	26.19	10.97	37.16	54.00	-16.84	AVG	

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

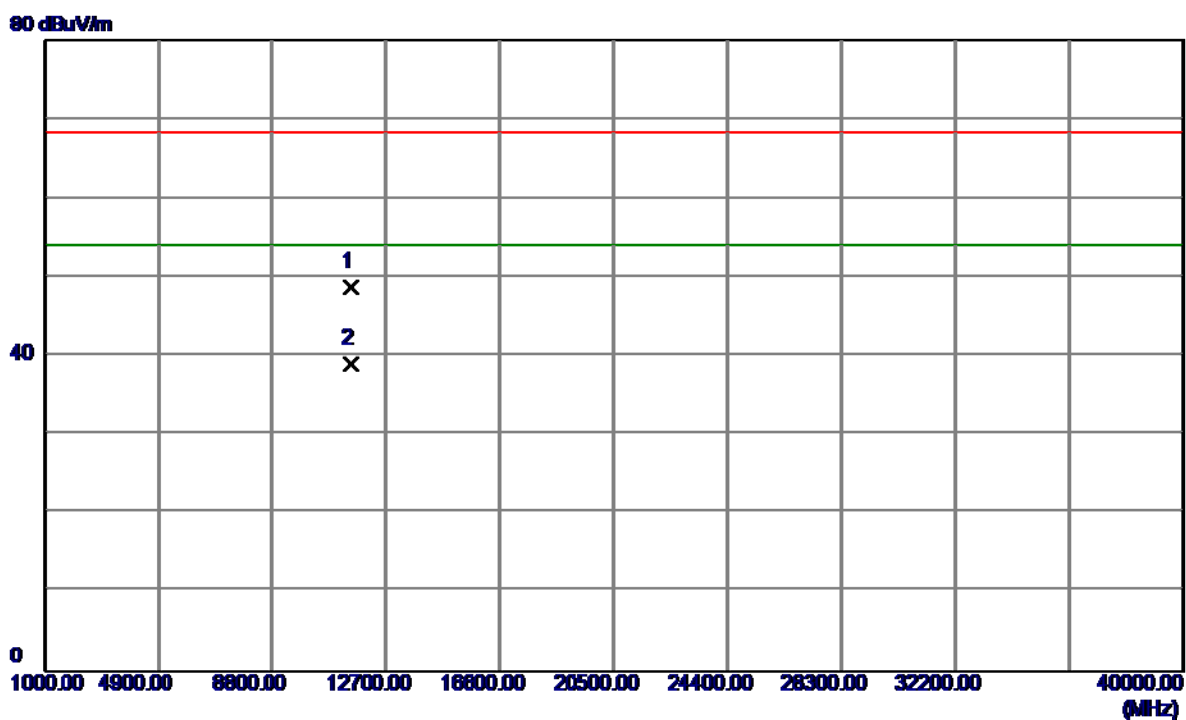
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5715.0000	8.05	41.05	49.10	68.30	-19.20	Peak	
2	5715.0000	-2.50	41.05	38.55	68.30	-29.75	AVG	
3	5725.0000	9.59	41.10	50.69	78.30	-27.61	Peak	
4	5725.0000	-0.29	41.10	40.81	68.30	-27.49	AVG	
5	5743.7000	54.95	41.17	96.12	78.30	17.82	Peak	NO limit
6	5746.1000	46.30	41.18	87.48	68.30	19.18	AVG	NO limit

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

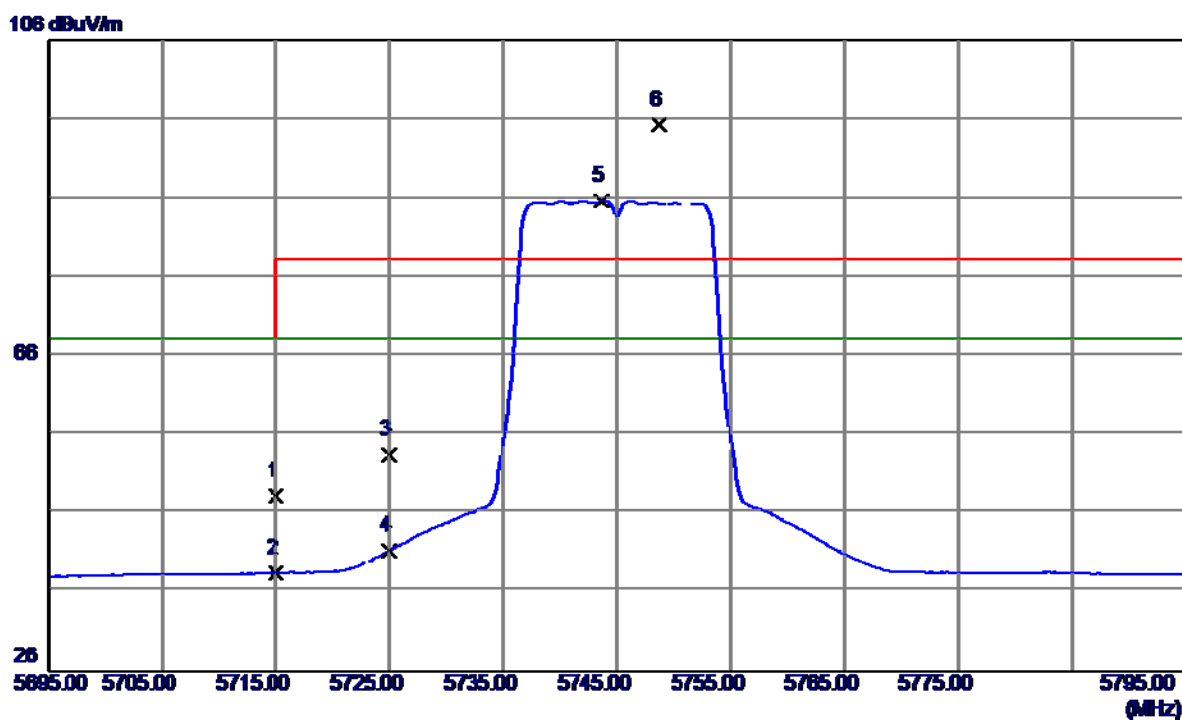
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11490.0000	35.96	12.91	48.87	68.30	-19.43	Peak	
2	11490.0400	26.20	12.91	39.11	54.00	-14.89	AVG	

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

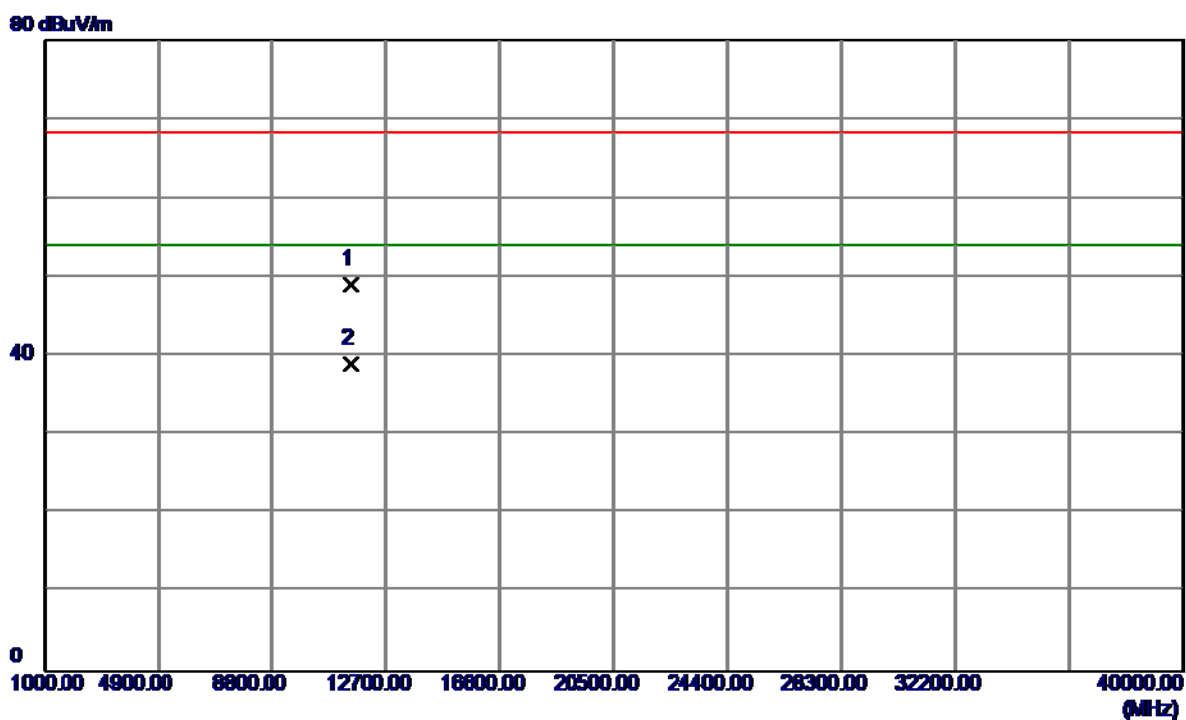
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5715.0000	7.12	41.05	48.17	68.30	-20.13	Peak	
2	5715.0000	-2.57	41.05	38.48	68.30	-29.82	AVG	
3	5725.0000	12.47	41.10	53.57	78.30	-24.73	Peak	
4	5725.0000	0.31	41.10	41.41	68.30	-26.89	AVG	
5	5743.7000	44.56	41.17	85.73	68.30	17.43	AVG	NO limit
6	5748.7000	54.16	41.19	95.35	78.30	17.05	Peak	NO limit

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

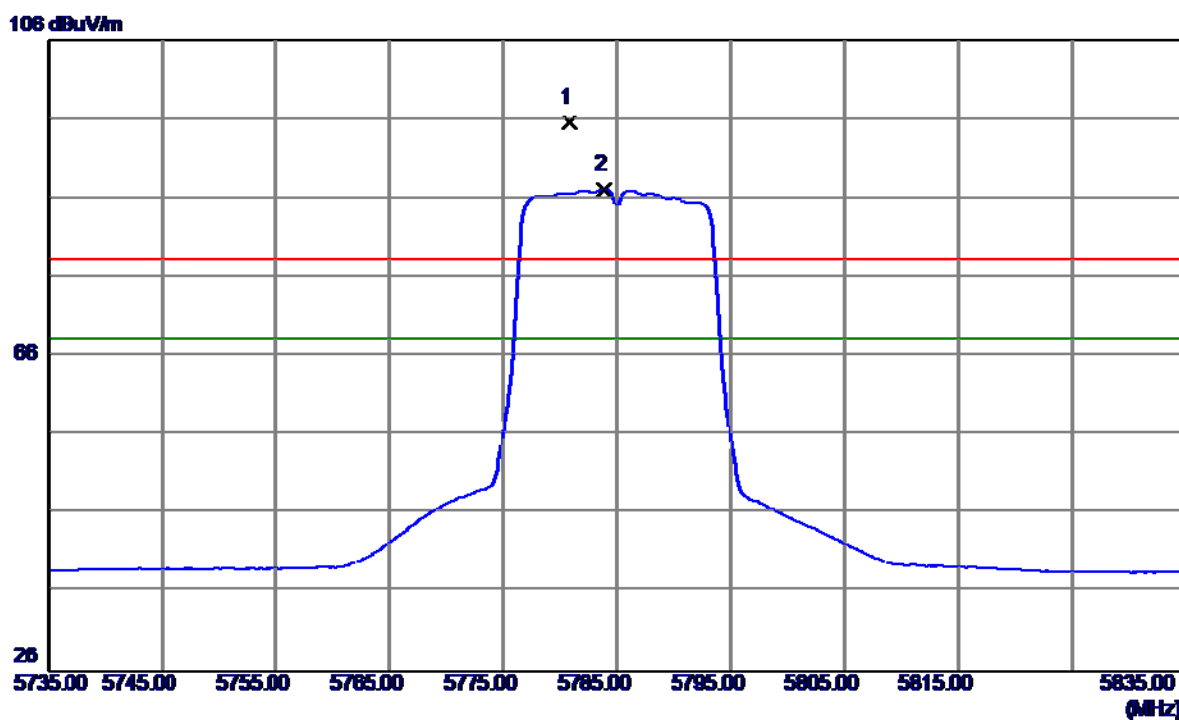
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11489.9600	36.15	12.91	49.06	68.30	-19.24	Peak	
2	11490.0599	26.21	12.91	39.12	54.00	-14.88	AVG	

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

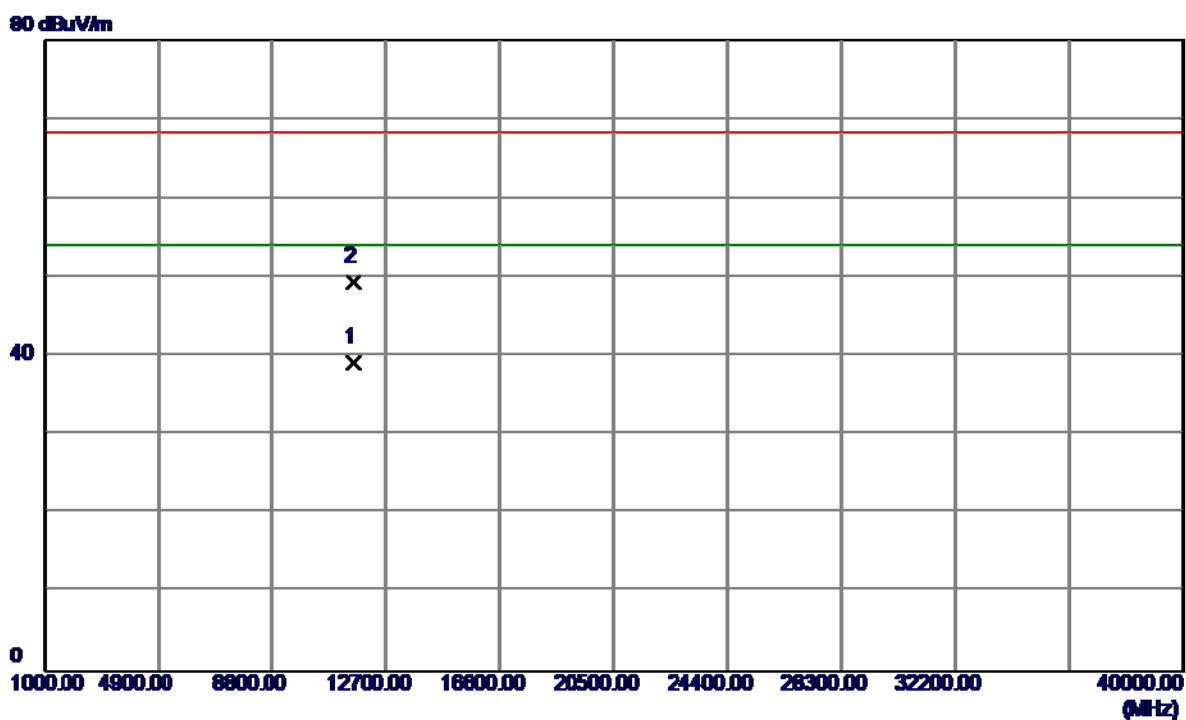
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5780.8000	54.24	41.33	95.57	78.30	17.27	Peak	NO limit
2	5783.9000	45.83	41.34	87.17	68.30	18.87	AVG	NO limit

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

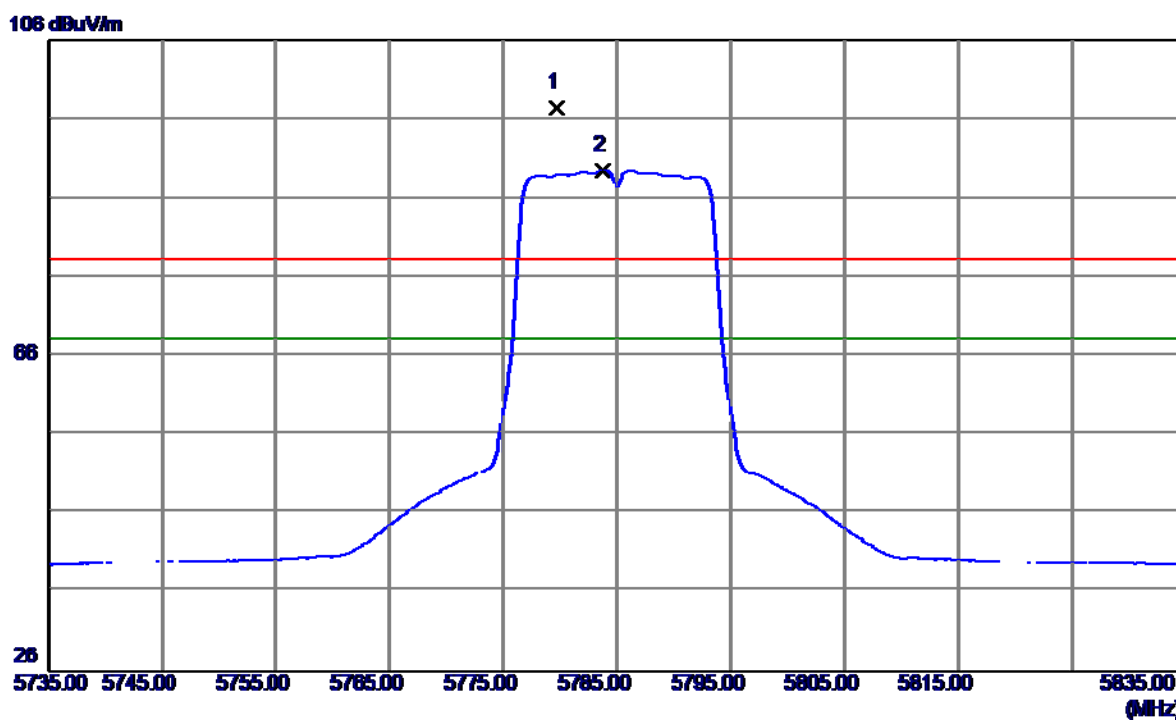
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11569.9400	26.27	12.89	39.16	54.00	-14.84	AVG	
2	11569.9800	36.48	12.89	49.37	68.30	-18.93	Peak	

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

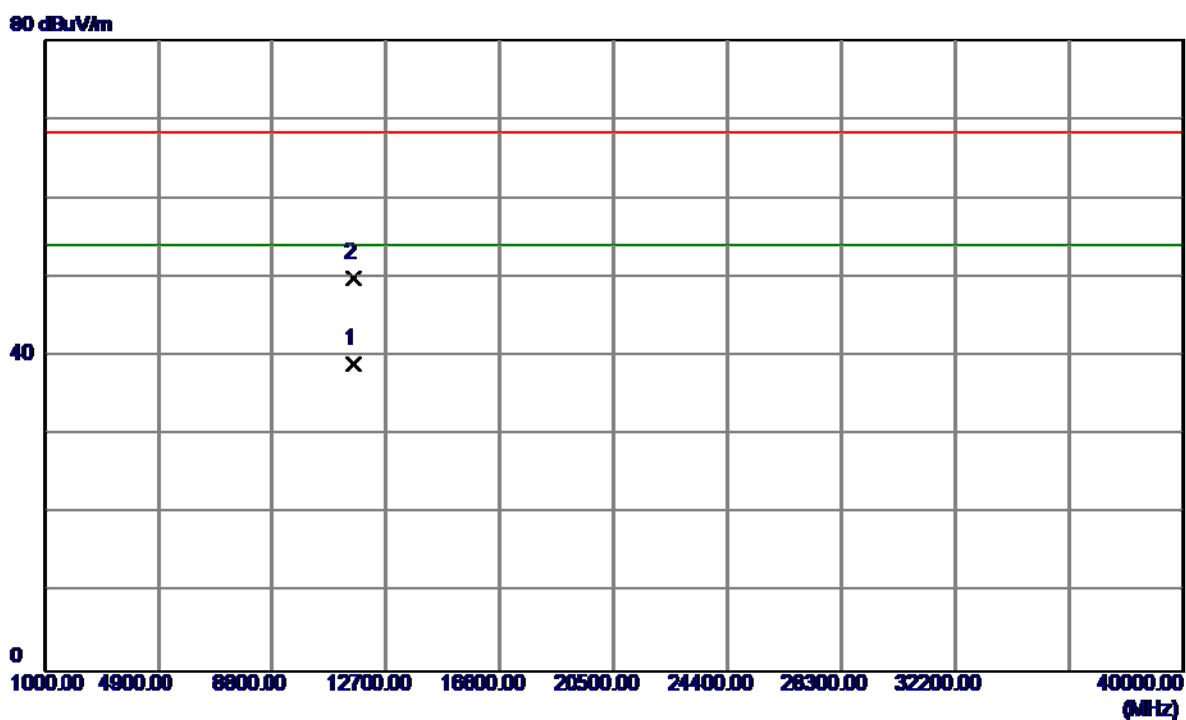
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5779.7000	56.14	41.32	97.46	78.30	19.16	Peak	NO limit
2	5783.8000	48.23	41.34	89.57	68.30	21.27	AVG	NO limit

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

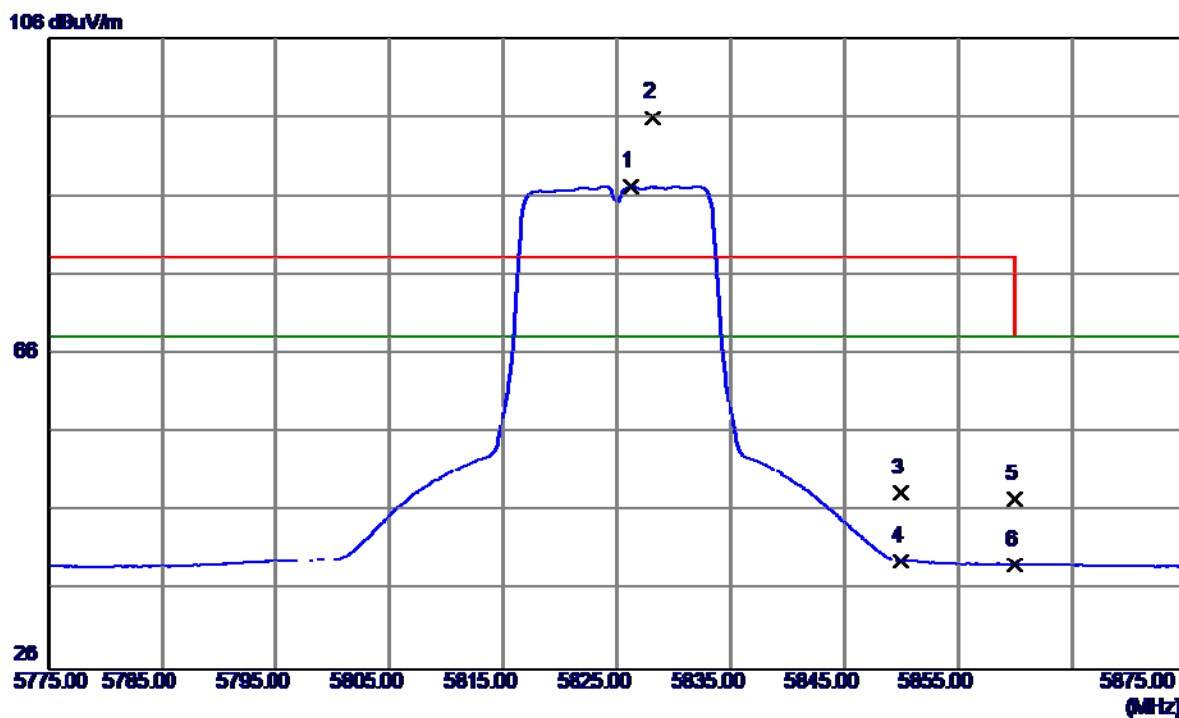
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11570.0000	26.09	12.89	38.98	54.00	-15.02	AVG	
2	11570.3200	37.07	12.89	49.96	68.30	-18.34	Peak	

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

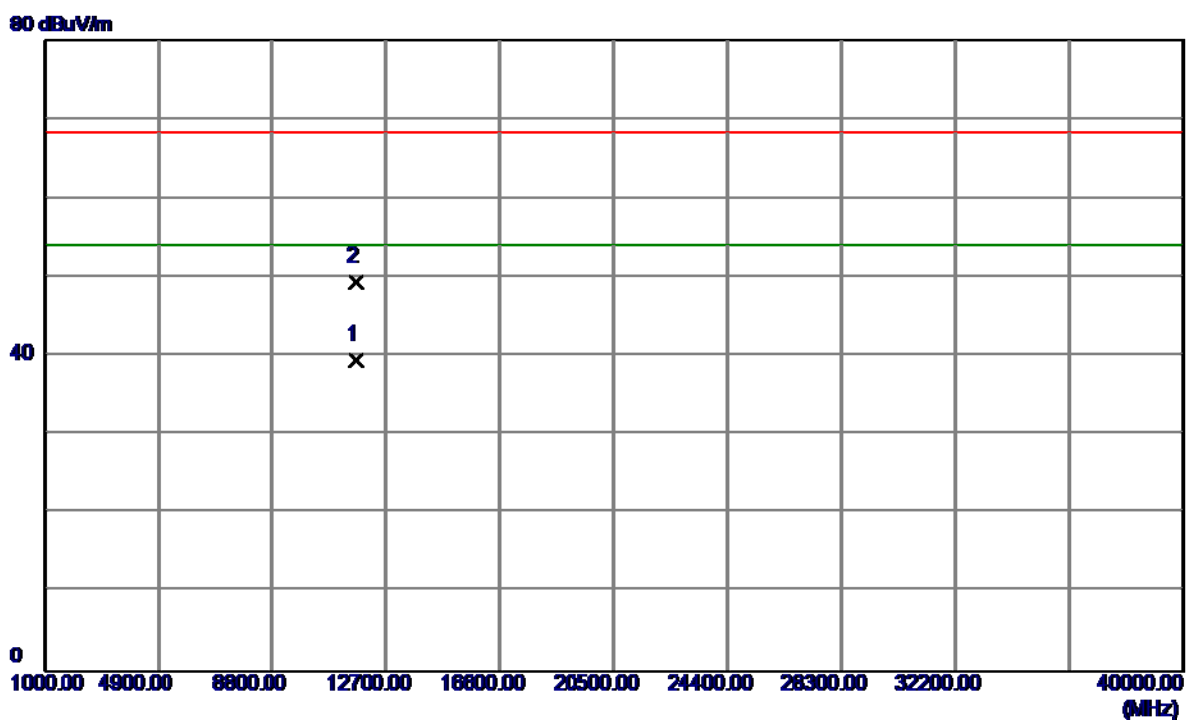
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5826.2000	45.79	41.52	87.31	68.30	19.01	AVG	NO limit
2	5828.1000	54.48	41.52	96.00	78.30	17.70	Peak	NO limit
3	5850.0000	6.71	41.62	48.33	78.30	-29.97	Peak	
4	5850.0000	-1.89	41.62	39.73	68.30	-28.57	AVG	
5	5860.0000	5.88	41.66	47.54	78.30	-30.76	Peak	
6	5860.0000	-2.39	41.66	39.27	68.30	-29.03	AVG	

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

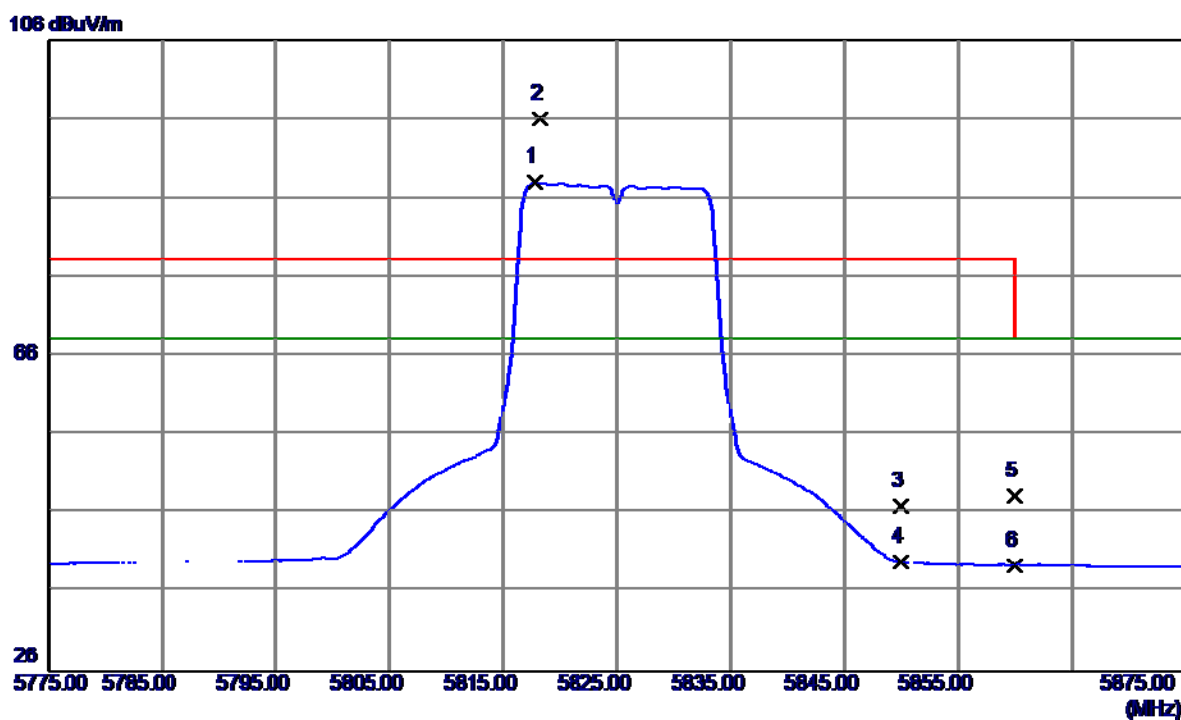
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11649.9200	26.66	12.84	39.50	54.00	-14.50	AVG	
2	11650.1000	36.66	12.84	49.50	68.30	-18.80	Peak	

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

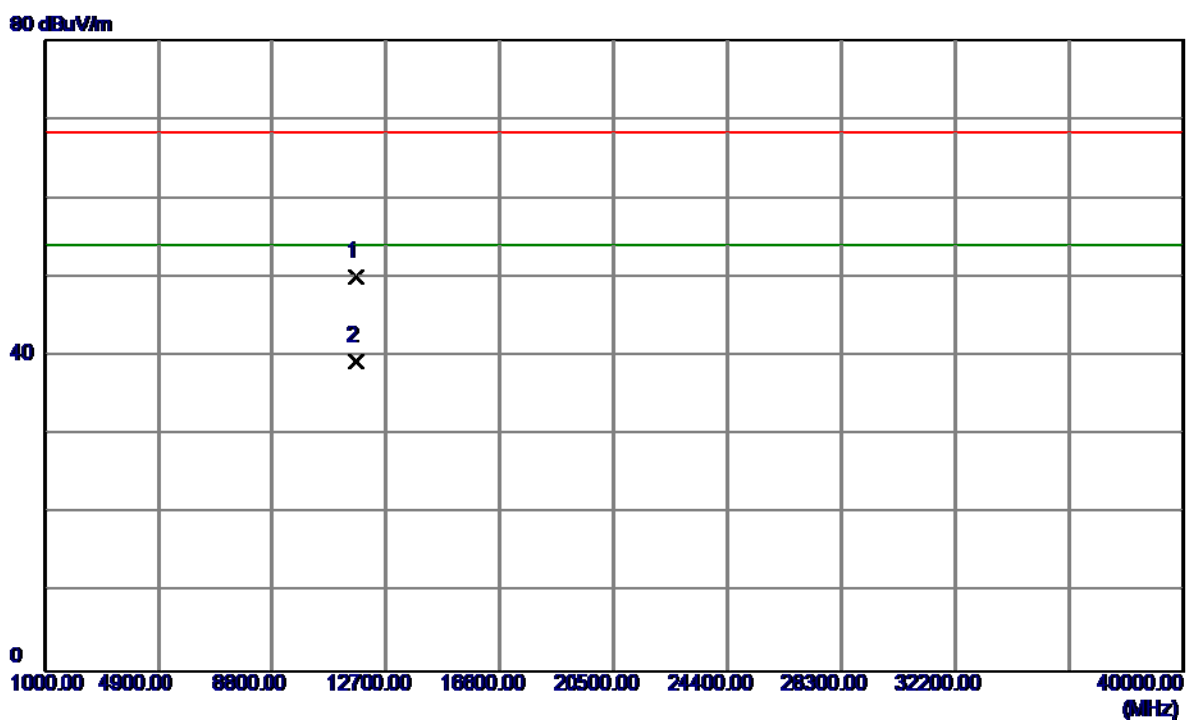
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5817.8000	46.53	41.48	88.01	68.30	19.71	AVG	NO limit
2	5818.2000	54.64	41.48	96.12	78.30	17.82	Peak	NO limit
3	5850.0000	5.38	41.62	47.00	78.30	-31.30	Peak	
4	5850.0000	-1.76	41.62	39.86	68.30	-28.44	AVG	
5	5860.0000	6.64	41.66	48.30	78.30	-30.00	Peak	
6	5860.0000	-2.15	41.66	39.51	68.30	-28.79	AVG	

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

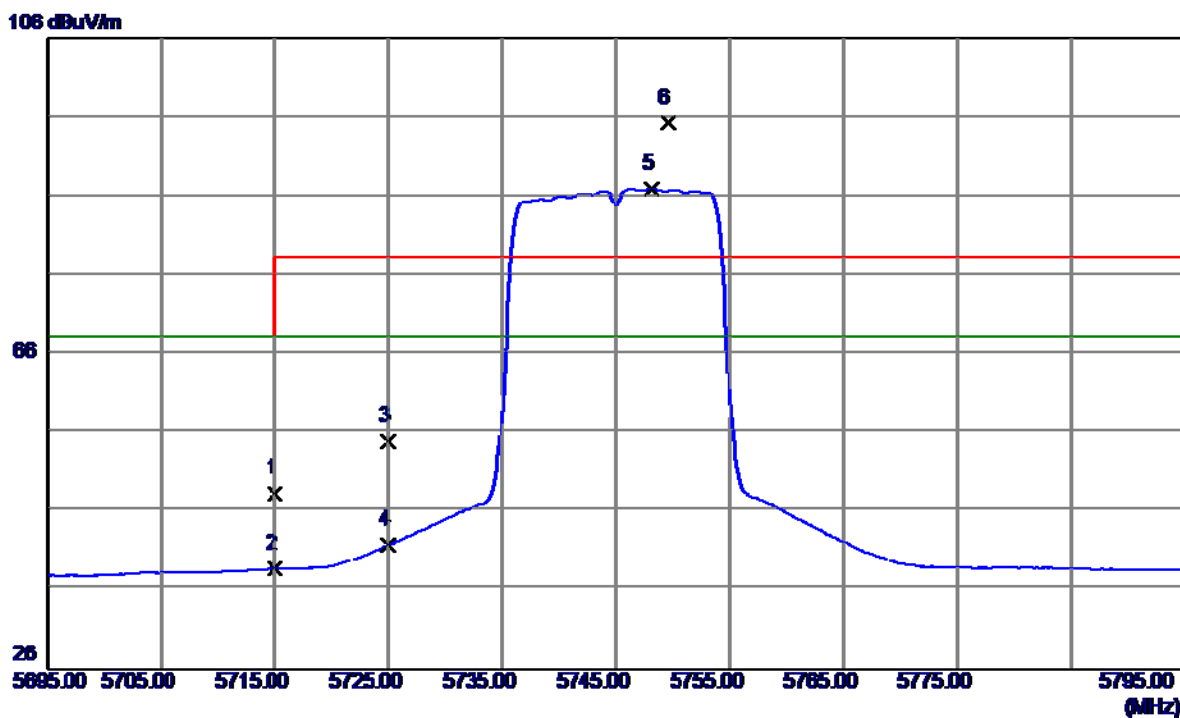
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11649.9800	37.25	12.84	50.09	68.30	-18.21	Peak	
2	11649.9800	26.59	12.84	39.43	54.00	-14.57	AVG	

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

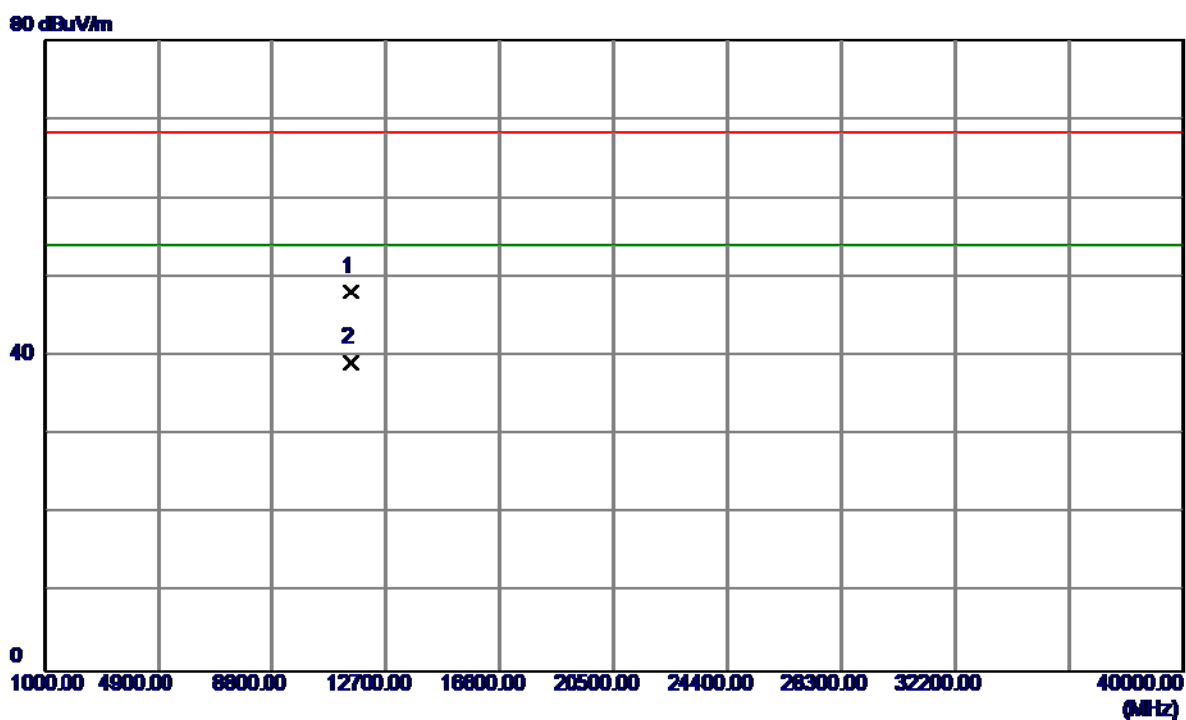
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5715.0000	7.27	41.05	48.32	68.30	-19.98	Peak	
2	5715.0000	-2.28	41.05	38.77	68.30	-29.53	AVG	
3	5725.0000	13.92	41.10	55.02	78.30	-23.28	Peak	
4	5725.0000	0.74	41.10	41.84	68.30	-26.46	AVG	
5	5748.1000	45.79	41.19	86.98	68.30	18.68	AVG	NO limit
6	5749.5000	54.05	41.20	95.25	78.30	16.95	Peak	NO limit

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

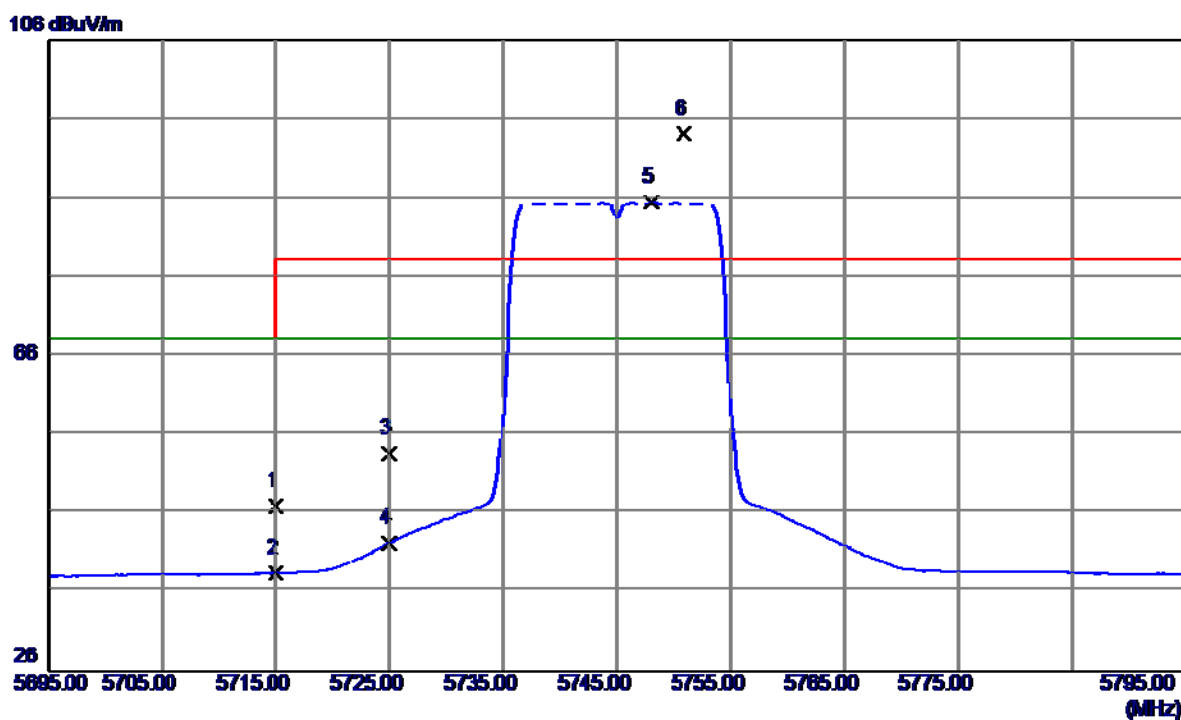
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11490.0000	35.19	12.91	48.10	68.30	-20.20	Peak	
2	11490.0000	26.29	12.91	39.20	54.00	-14.80	AVG	

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

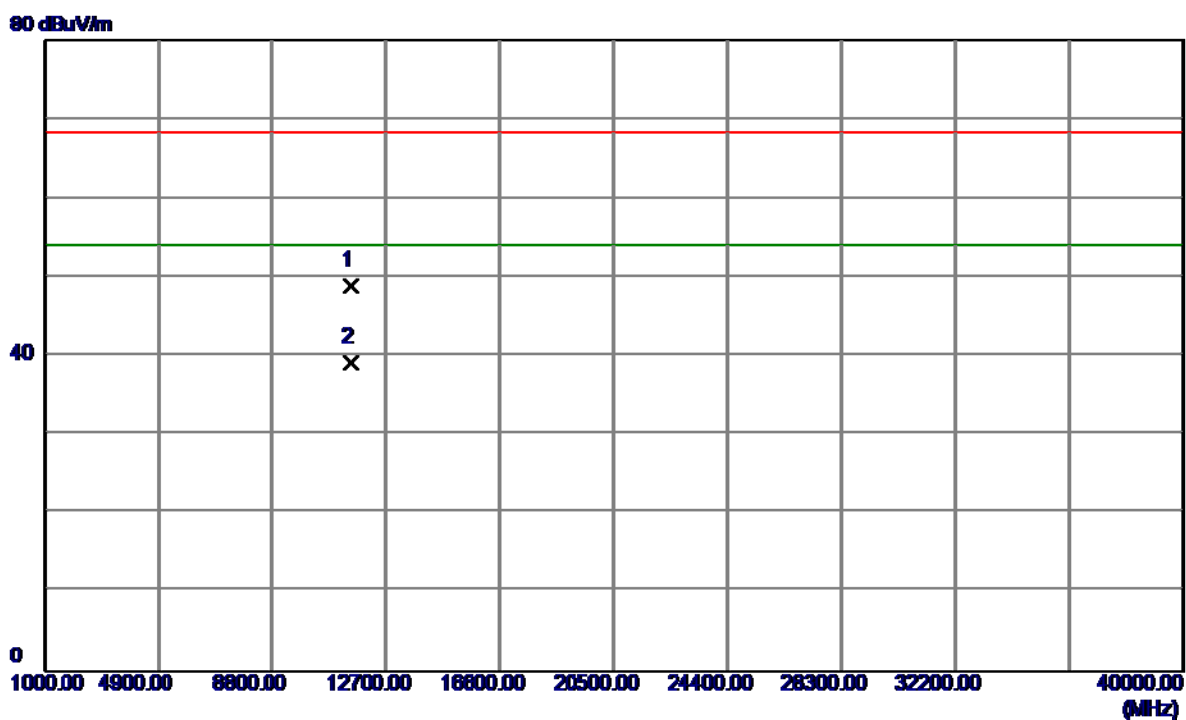
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5715.0000	5.84	41.05	46.89	68.30	-21.41	Peak	
2	5715.0000	-2.56	41.05	38.49	68.30	-29.81	AVG	
3	5725.0000	12.63	41.10	53.73	78.30	-24.57	Peak	
4	5725.0000	1.24	41.10	42.34	68.30	-25.96	AVG	
5	5748.0000	44.32	41.19	85.51	68.30	17.21	AVG	NO limit
6	5750.9000	52.98	41.20	94.18	78.30	15.88	Peak	NO limit

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

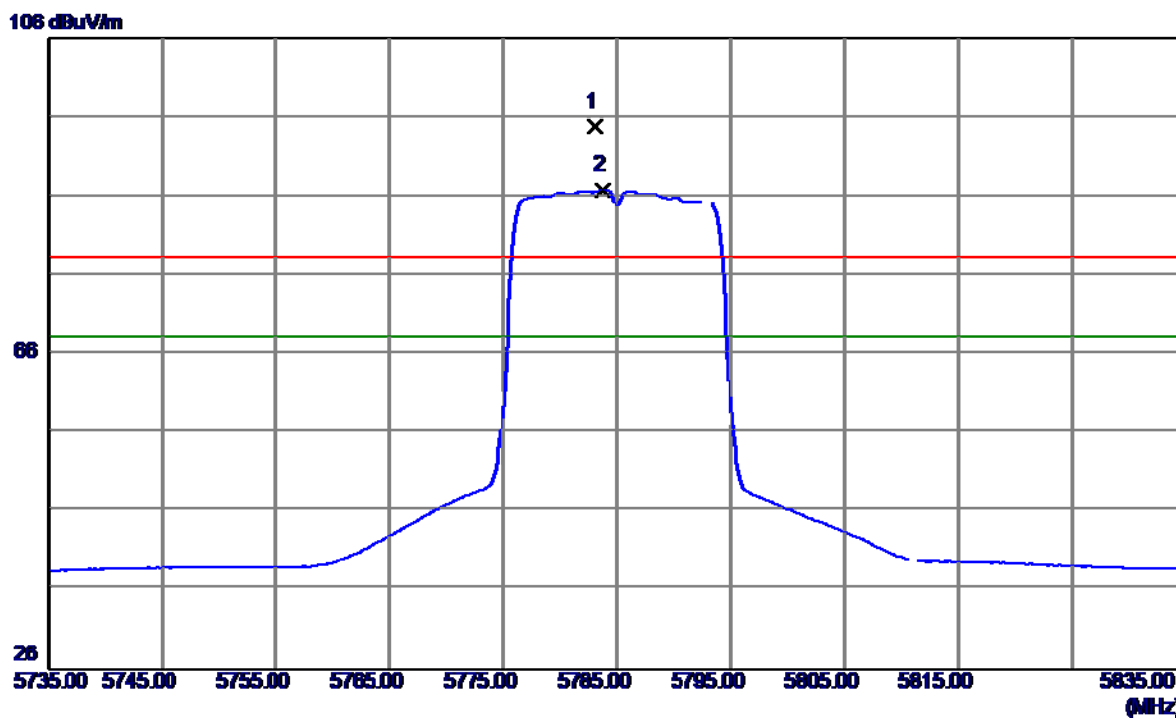
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11489.9800	36.04	12.91	48.95	68.30	-19.35	Peak	
2	11490.0400	26.22	12.91	39.13	54.00	-14.87	AVG	

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

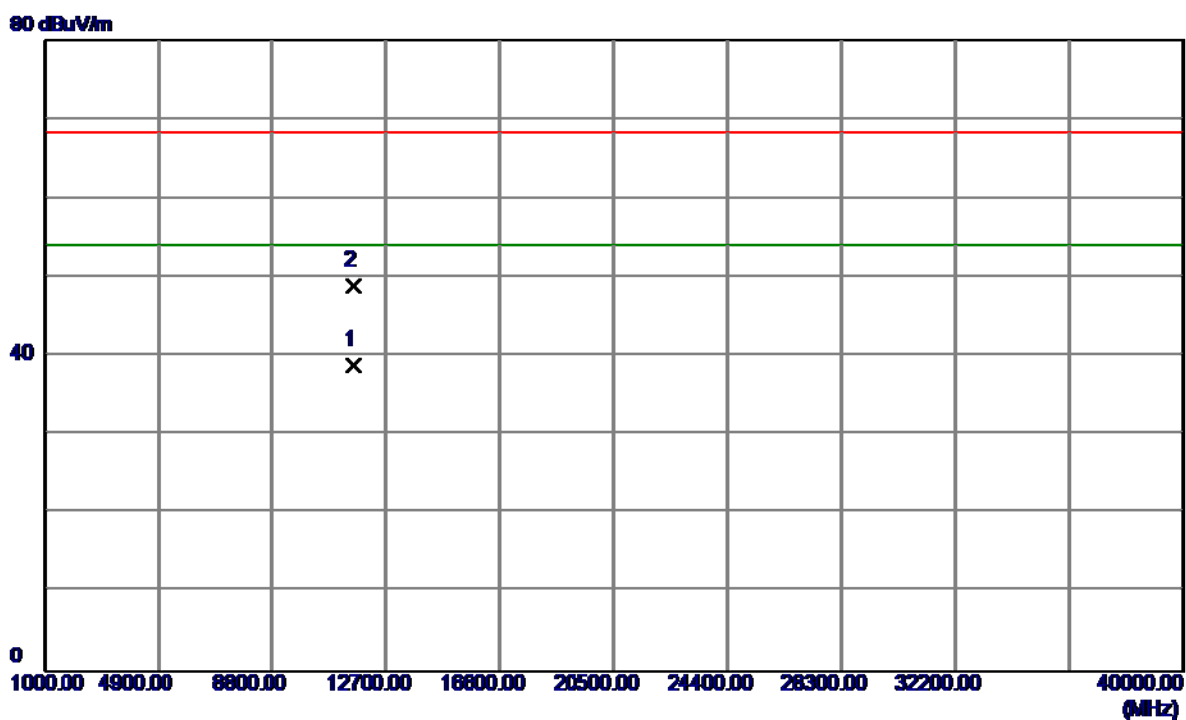
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5783.1000	53.43	41.34	94.77	78.30	16.47	Peak	NO limit
2	5783.8000	45.53	41.34	86.87	68.30	18.57	AVG	NO limit

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

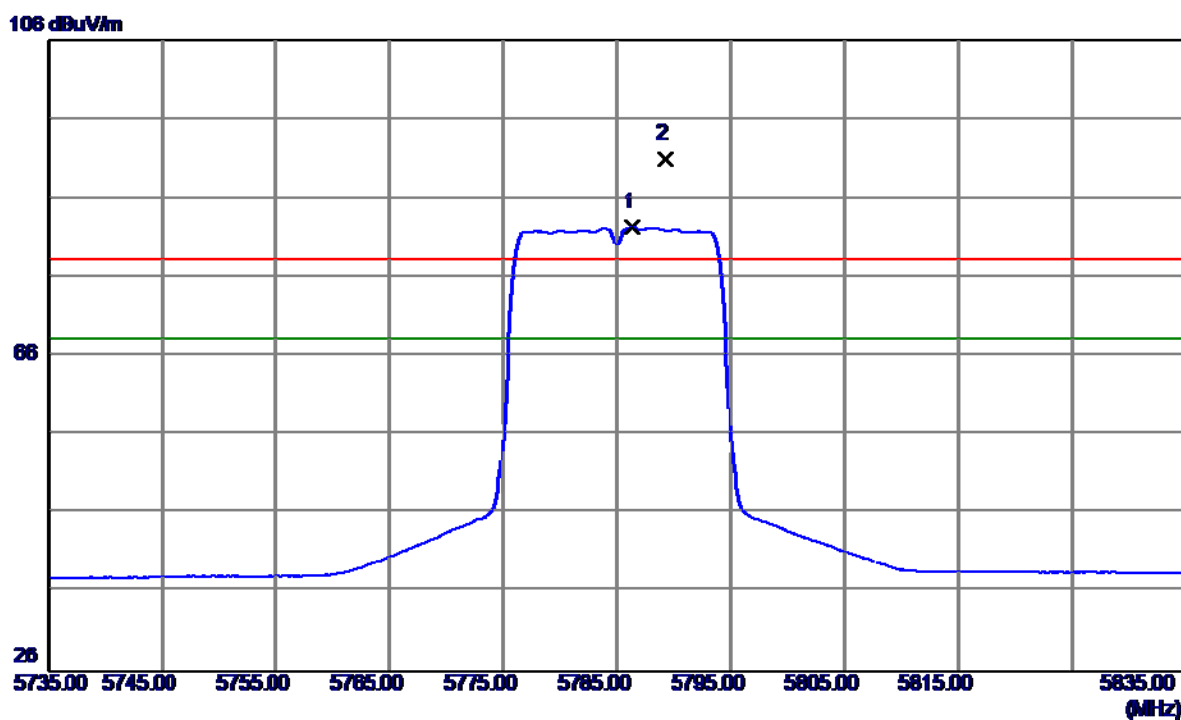
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11570.0199	26.06	12.89	38.95	54.00	-15.05	AVG	
2	11570.1200	36.12	12.89	49.01	68.30	-19.29	Peak	

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

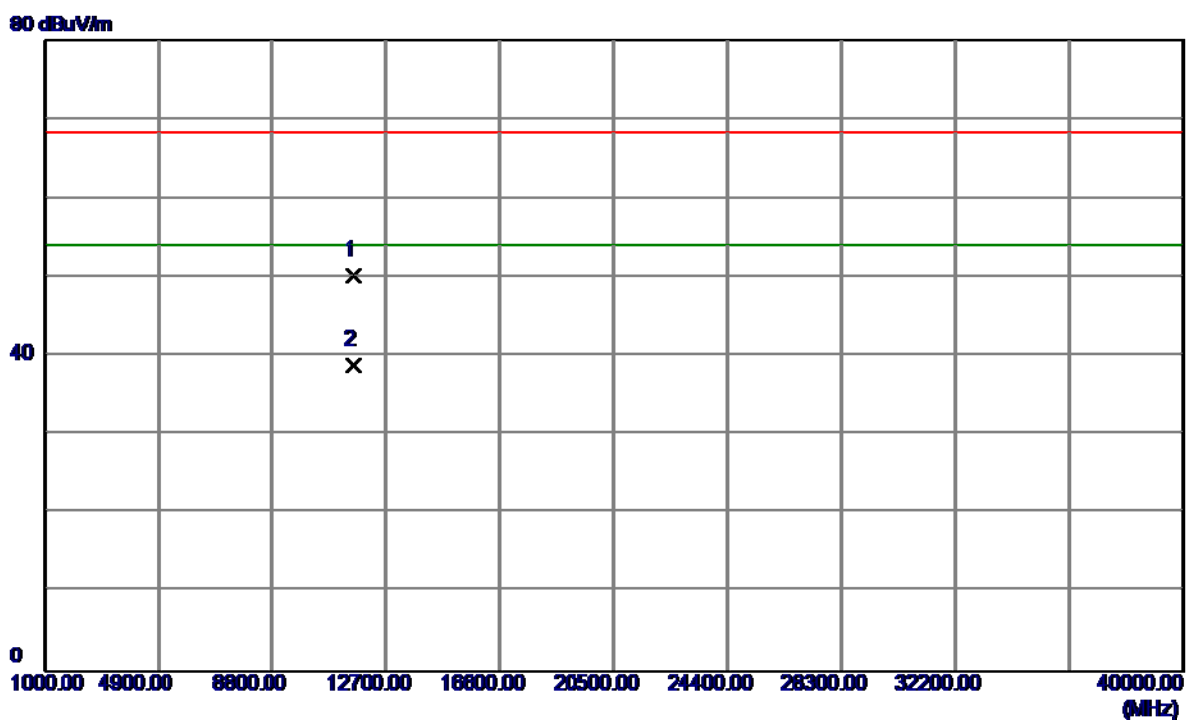
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5786.3000	40.95	41.35	82.30	68.30	14.00	AVG	NO limit
2	5789.2000	49.62	41.36	90.98	78.30	12.68	Peak	NO limit

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

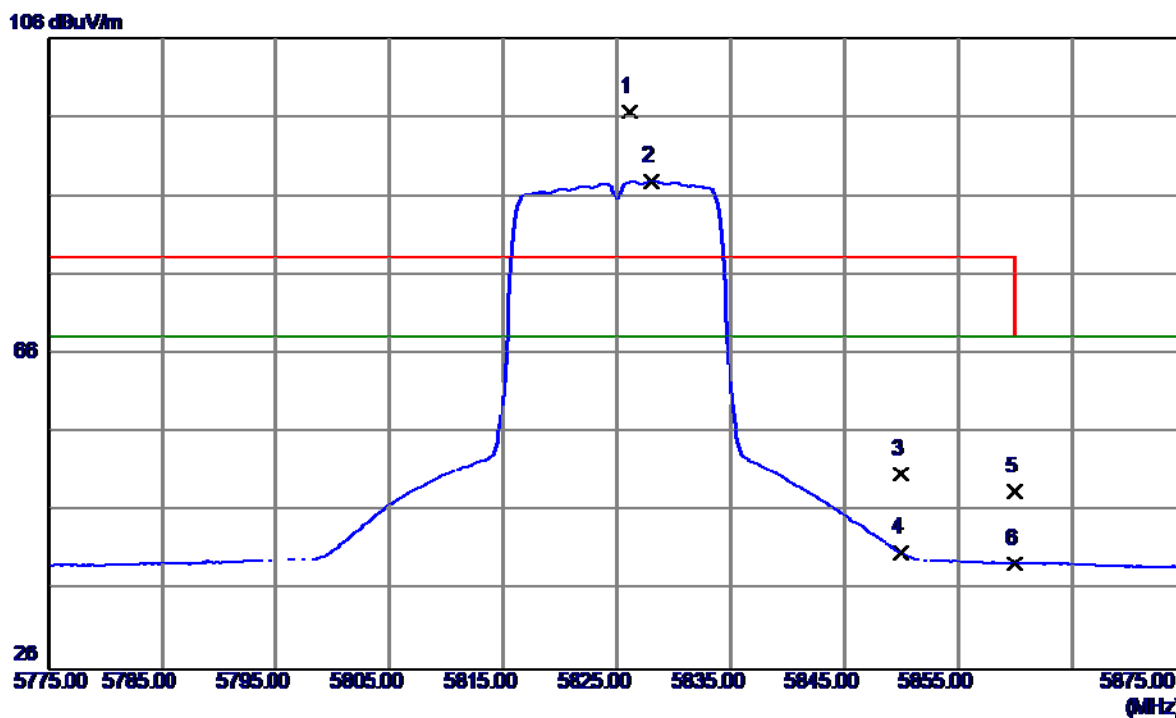
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11569.8600	37.29	12.89	50.18	68.30	-18.12	Peak	
2	11569.9800	26.05	12.89	38.94	54.00	-15.06	AVG	

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

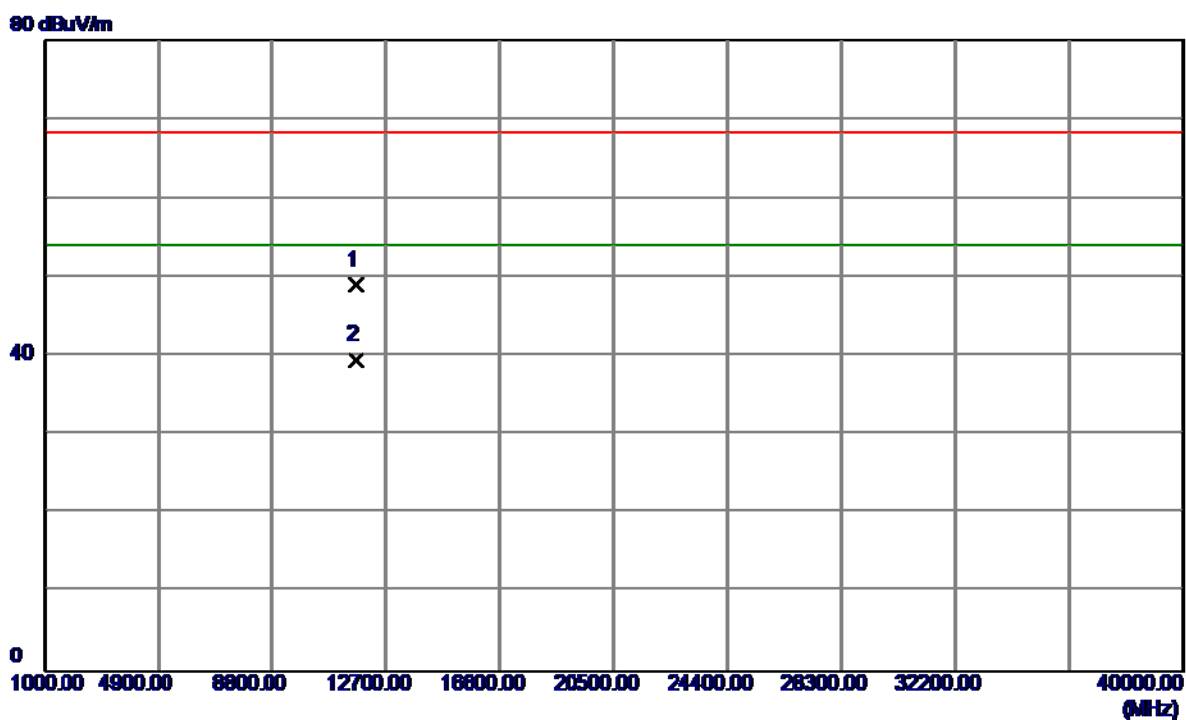
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5826.1000	55.13	41.52	96.65	78.30	18.35	Peak	NO limit
2	5828.0000	46.42	41.52	87.94	68.30	19.64	AVG	NO limit
3	5850.0000	9.19	41.62	50.81	78.30	-27.49	Peak	
4	5850.0000	-0.76	41.62	40.86	68.30	-27.44	AVG	
5	5860.0000	6.96	41.66	48.62	78.30	-29.68	Peak	
6	5860.0000	-2.18	41.66	39.48	68.30	-28.82	AVG	

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

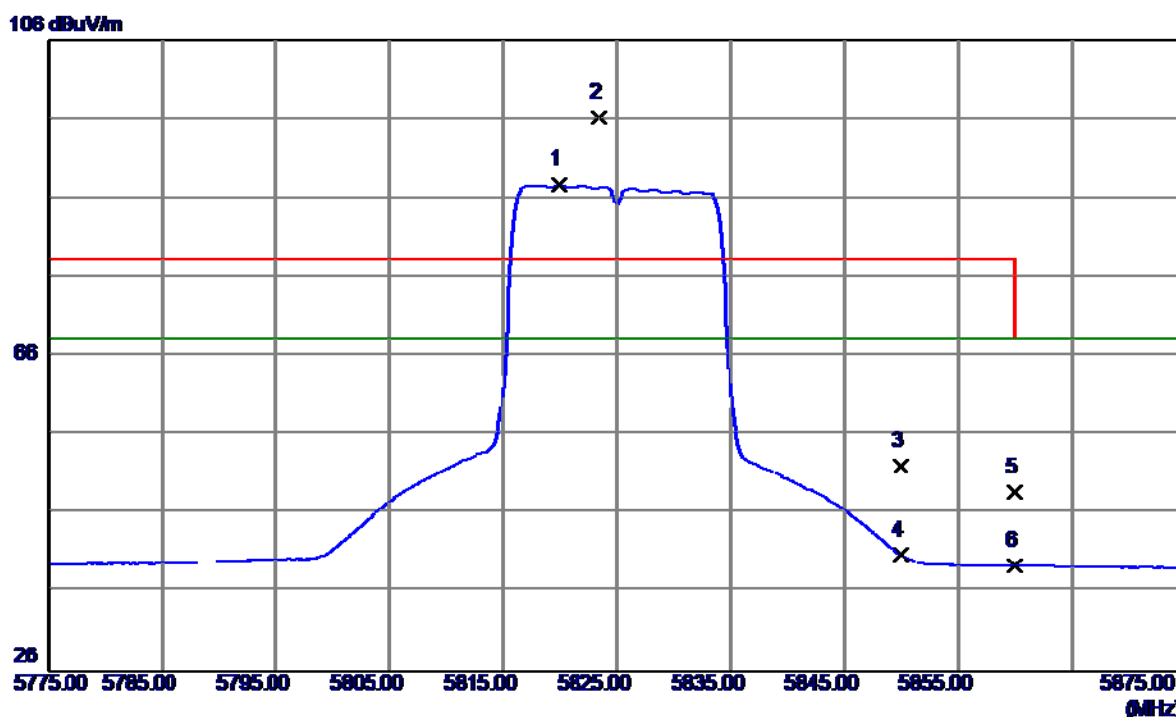
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11649.9800	36.20	12.84	49.04	68.30	-19.26	Peak	
2	11650.1600	26.67	12.84	39.51	54.00	-14.49	AVG	

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

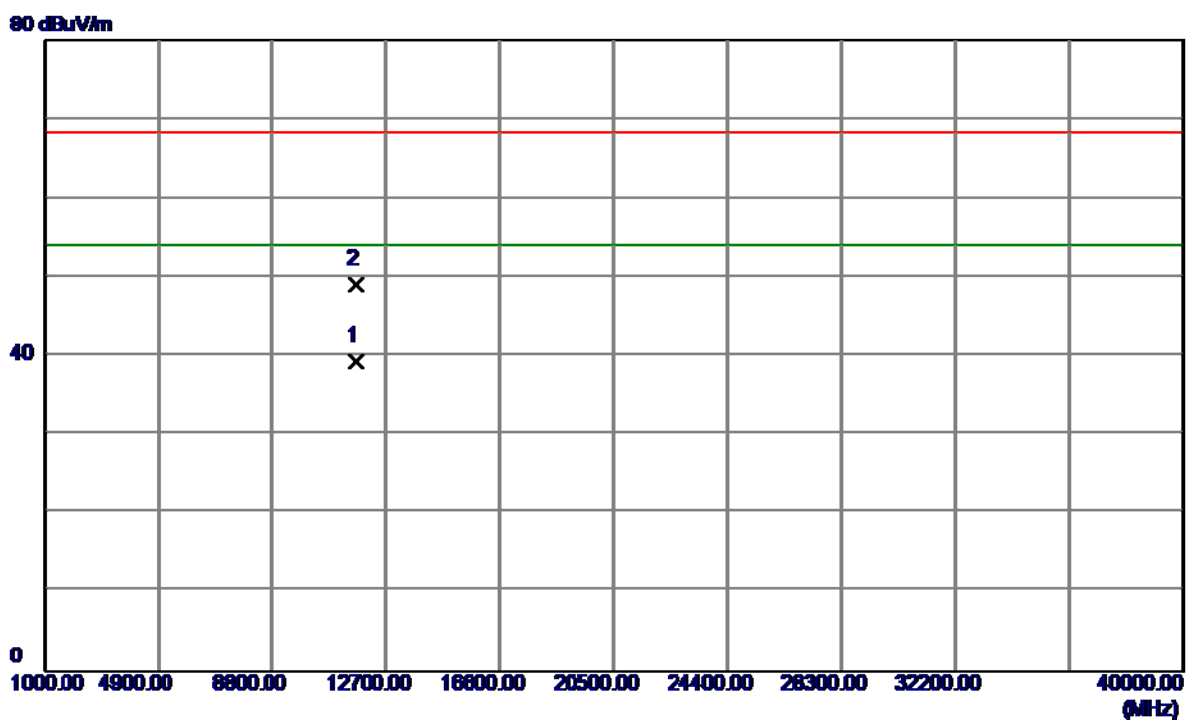
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5819.9000	46.20	41.49	87.69	68.30	19.39	AVG	NO limit
2	5823.4000	54.78	41.51	96.29	78.30	17.99	Peak	NO limit
3	5850.0000	10.45	41.62	52.07	78.30	-26.23	Peak	
4	5850.0000	-0.82	41.62	40.80	68.30	-27.50	AVG	
5	5860.0000	7.08	41.66	48.74	78.30	-29.56	Peak	
6	5860.0000	-2.25	41.66	39.41	68.30	-28.89	AVG	

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

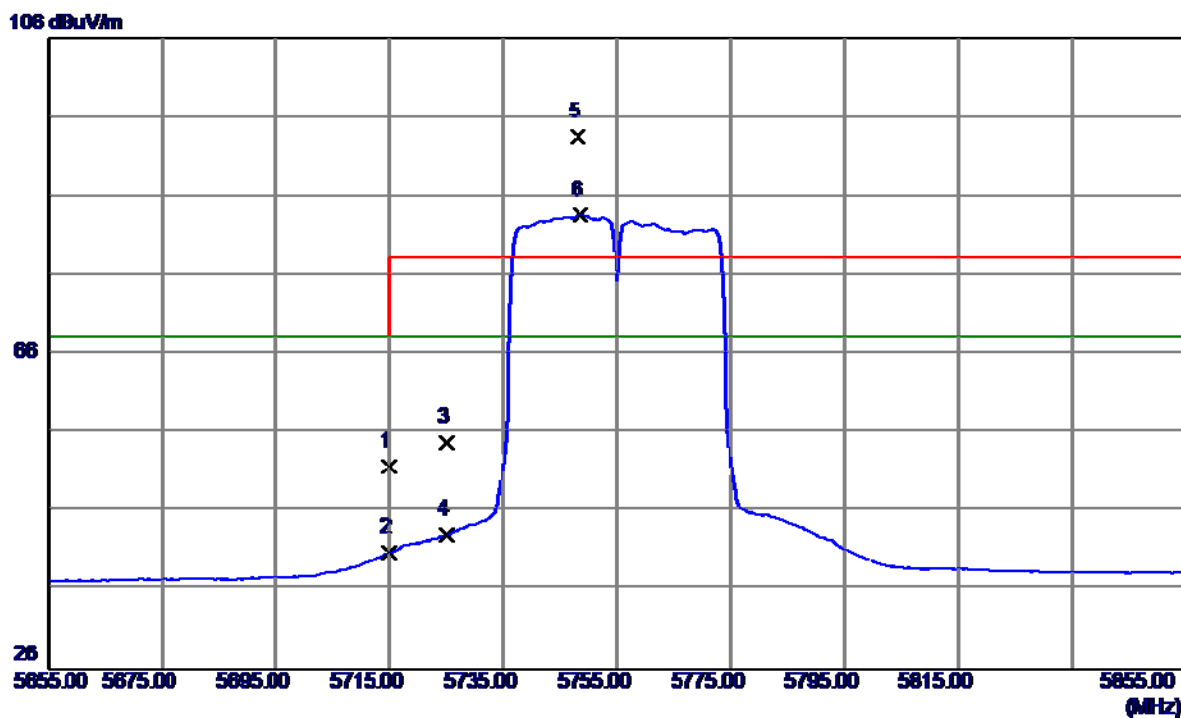
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11649.9000	26.57	12.84	39.41	54.00	-14.59	AVG	
2	11650.0599	36.22	12.84	49.06	68.30	-19.24	Peak	

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

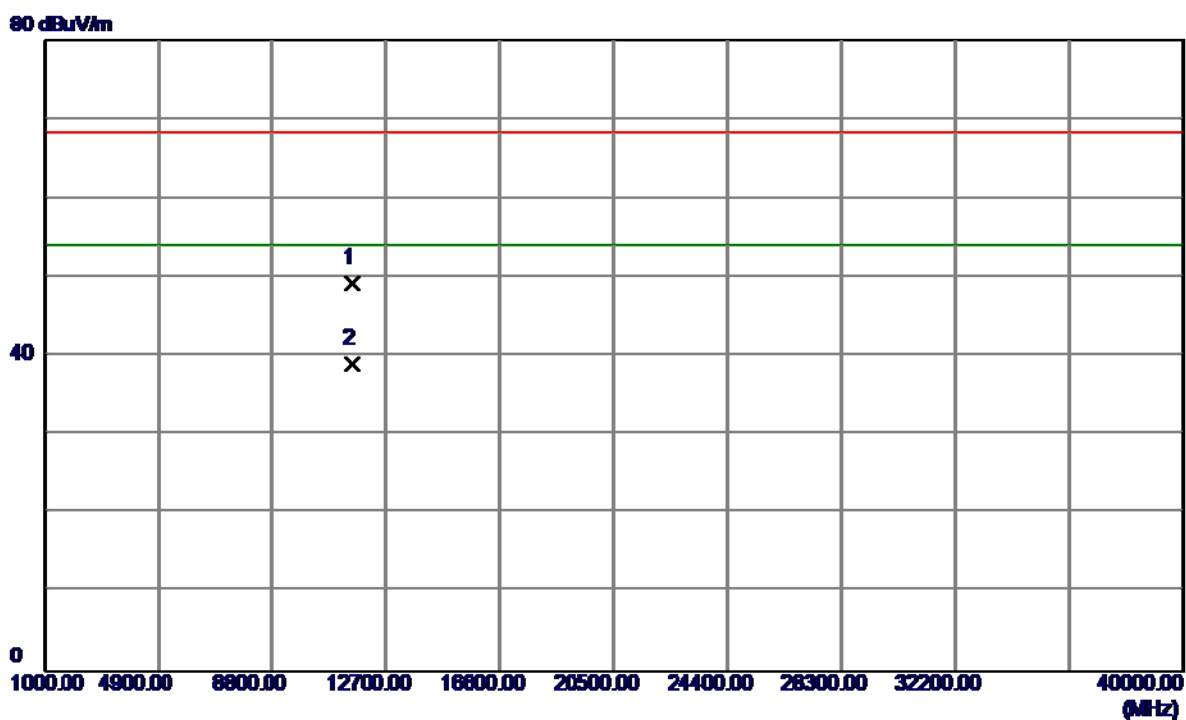
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5715.0000	10.65	41.05	51.70	68.30	-16.60	Peak	
2	5715.0000	-0.18	41.05	40.87	68.30	-27.43	AVG	
3	5725.0000	13.65	41.10	54.75	78.30	-23.55	Peak	
4	5725.0000	1.97	41.10	43.07	68.30	-25.23	AVG	
5	5748.2000	52.41	41.19	93.60	78.30	15.30	Peak	NO limit
6	5748.6000	42.40	41.19	83.59	68.30	15.29	AVG	NO limit

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

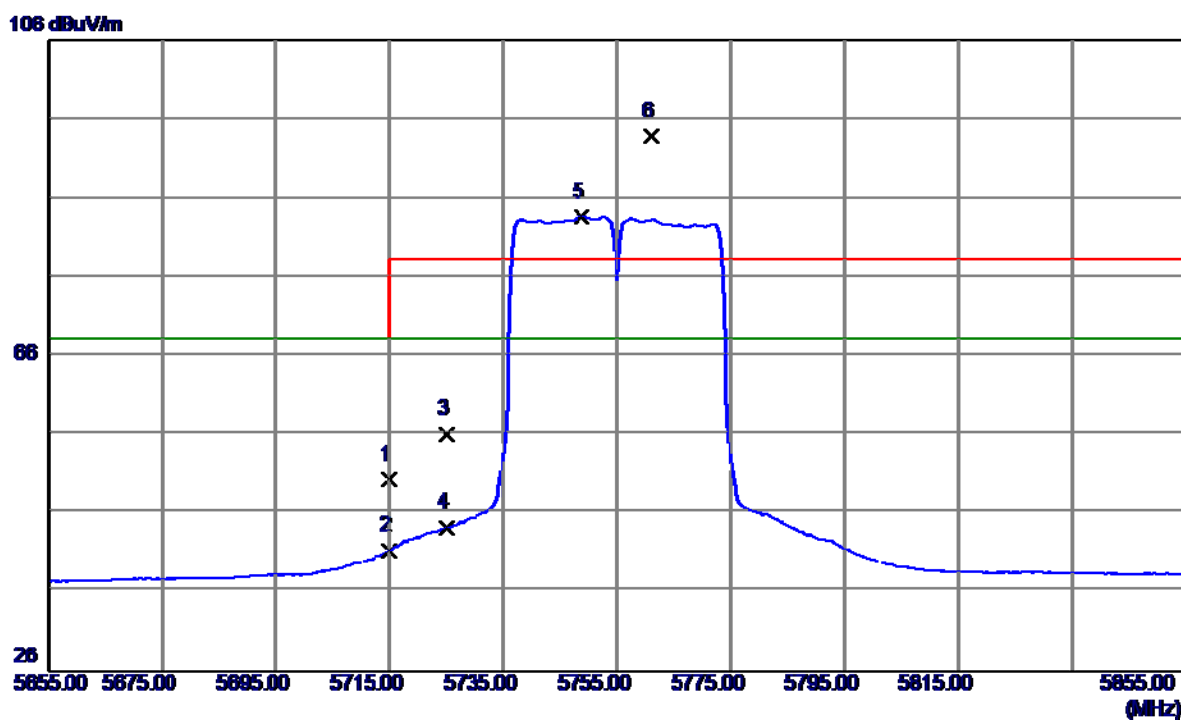
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11509.9400	36.30	12.93	49.23	68.30	-19.07	Peak	
2	11510.0000	26.16	12.93	39.09	54.00	-14.91	AVG	

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

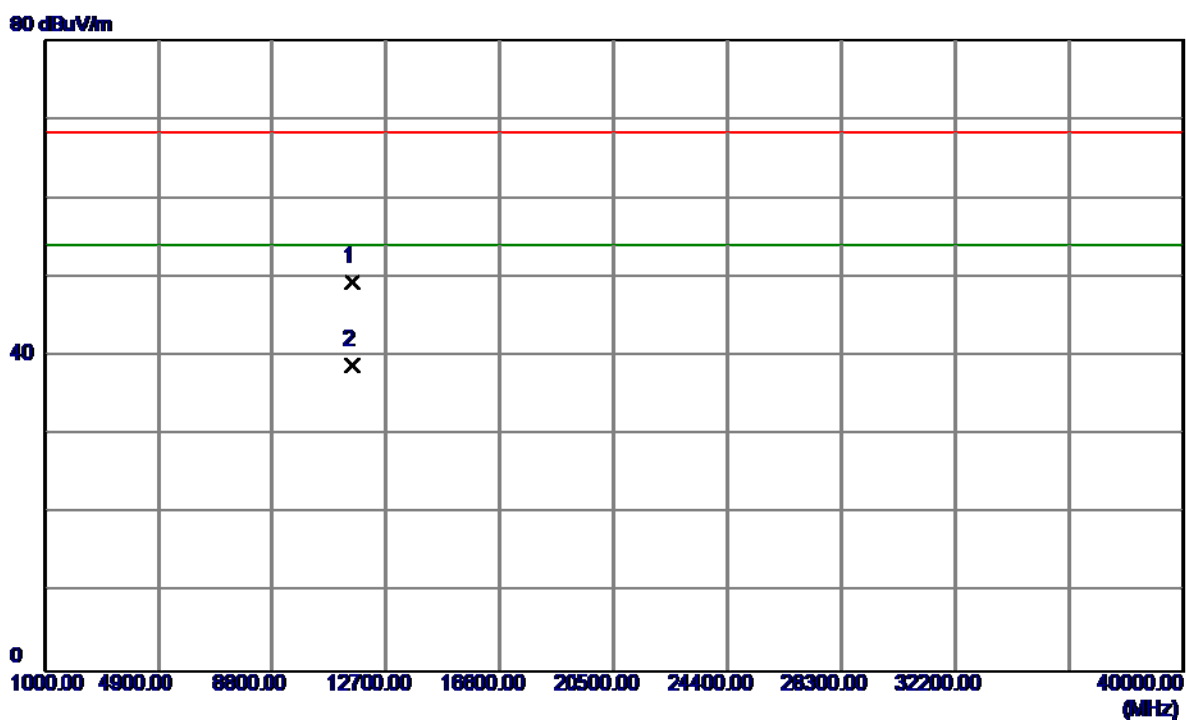
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5715.0000	9.32	41.05	50.37	68.30	-17.93	Peak	
2	5715.0000	0.36	41.05	41.41	68.30	-26.89	AVG	
3	5725.0000	14.94	41.10	56.04	78.30	-22.26	Peak	
4	5725.0000	3.14	41.10	44.24	68.30	-24.06	AVG	
5	5748.8000	42.45	41.19	83.64	68.30	15.34	AVG	NO limit
6	5761.0000	52.63	41.25	93.88	78.30	15.58	Peak	NO limit

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

Horizontal

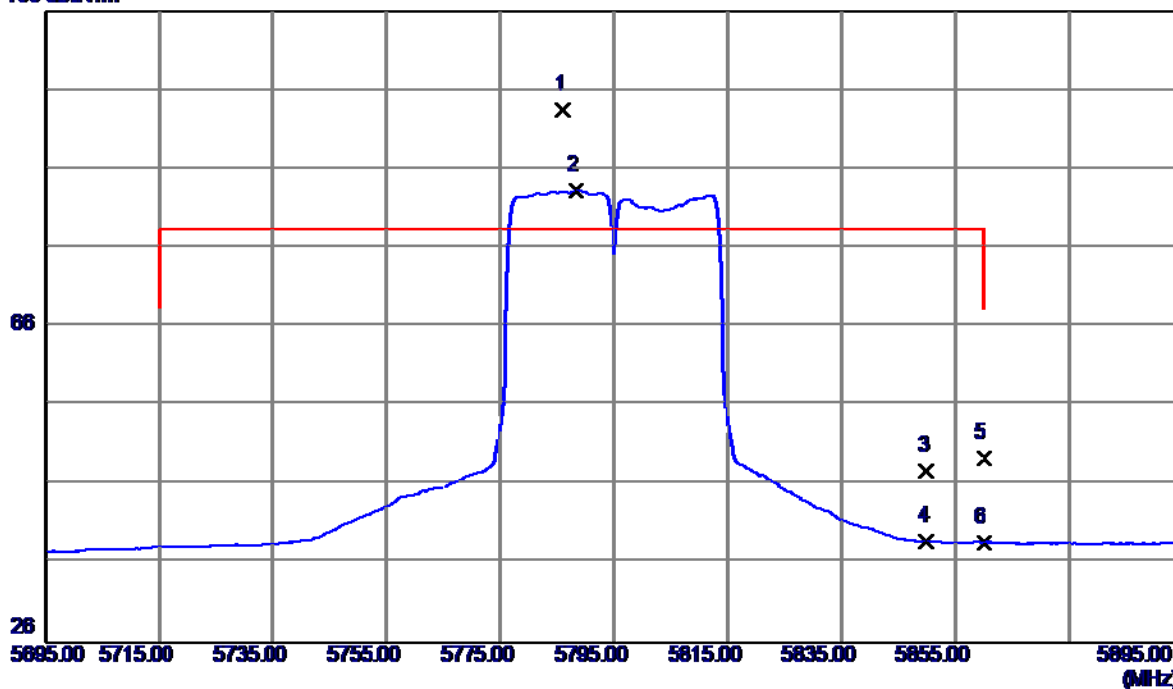


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11509.9200	36.55	12.93	49.48	68.30	-18.82	Peak	
2	11509.9200	25.99	12.93	38.92	54.00	-15.08	AVG	

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

Vertical

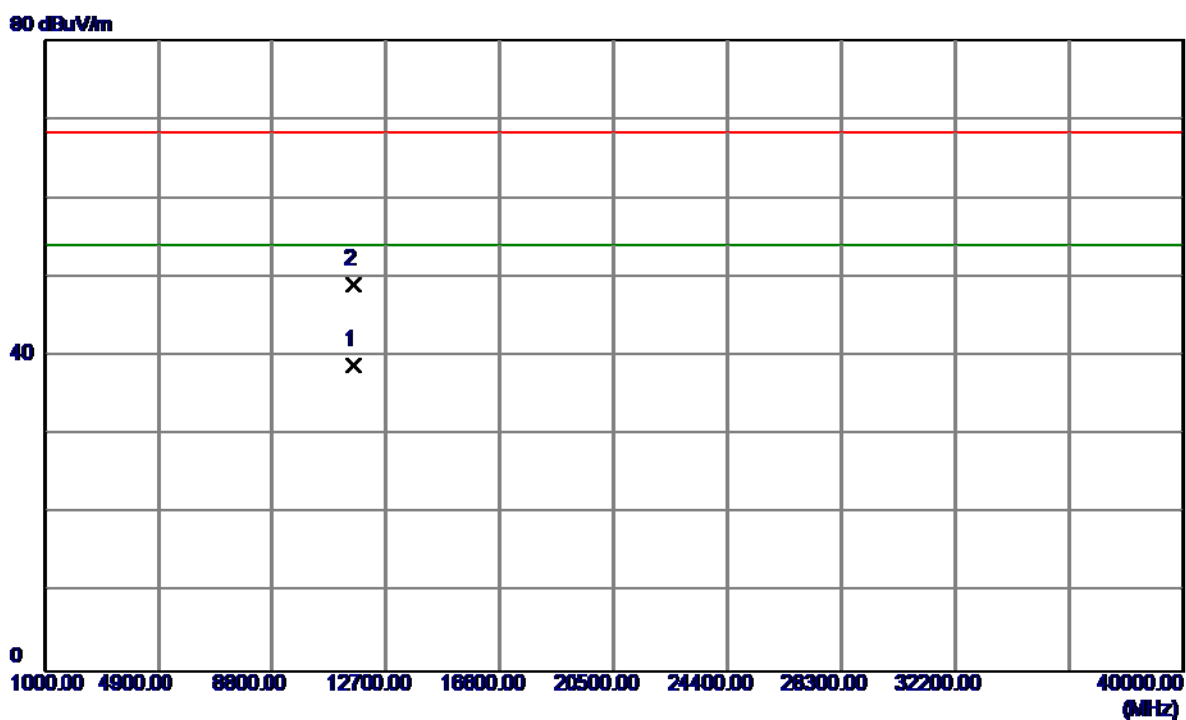
108 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5786.0000	52.16	41.35	93.51	78.30	15.21	Peak	NO limit
2	5788.4000	41.97	41.36	83.33	68.30	15.03	AVG	NO limit
3	5850.0000	6.20	41.62	47.82	78.30	-30.48	Peak	
4	5850.0000	-2.81	41.62	38.81	68.30	-29.49	AVG	
5	5860.0000	7.73	41.66	49.39	78.30	-28.91	Peak	
6	5860.0000	-2.99	41.66	38.67	68.30	-29.63	AVG	

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

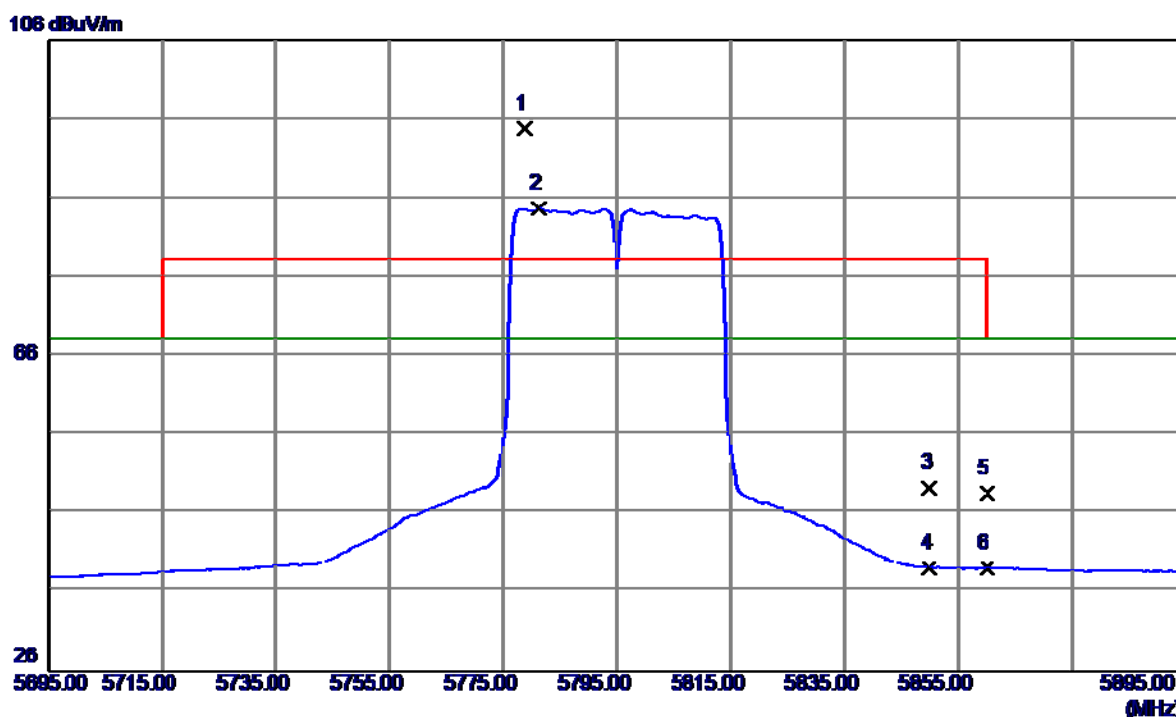
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11589.8800	26.06	12.88	38.94	54.00	-15.06	AVG	
2	11590.1400	36.27	12.88	49.15	68.30	-19.15	Peak	

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

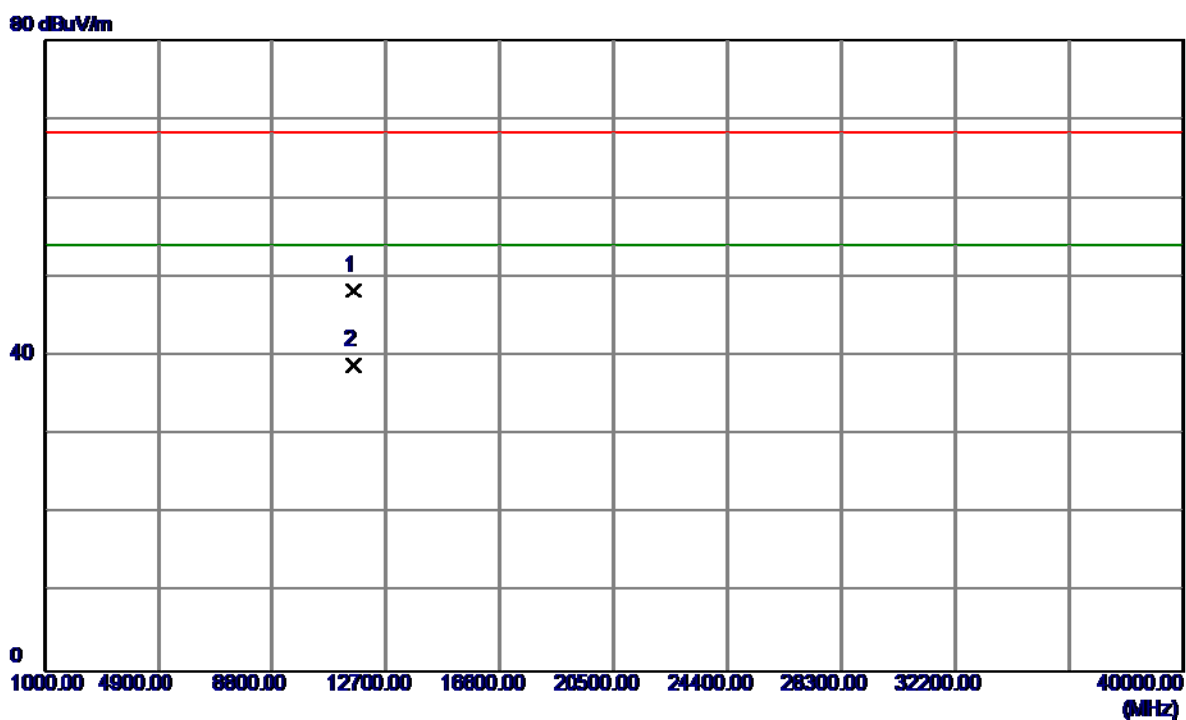
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	5778.8000	53.48	41.32	94.80	78.30	16.50	Peak	NO limit
2	5781.2000	43.35	41.33	84.68	68.30	16.38	AVG	NO limit
3	5850.0000	7.66	41.62	49.28	78.30	-29.02	Peak	
4	5850.0000	-2.44	41.62	39.18	68.30	-29.12	AVG	
5	5860.0000	6.92	41.66	48.58	78.30	-29.72	Peak	
6	5860.0000	-2.59	41.66	39.07	68.30	-29.23	AVG	

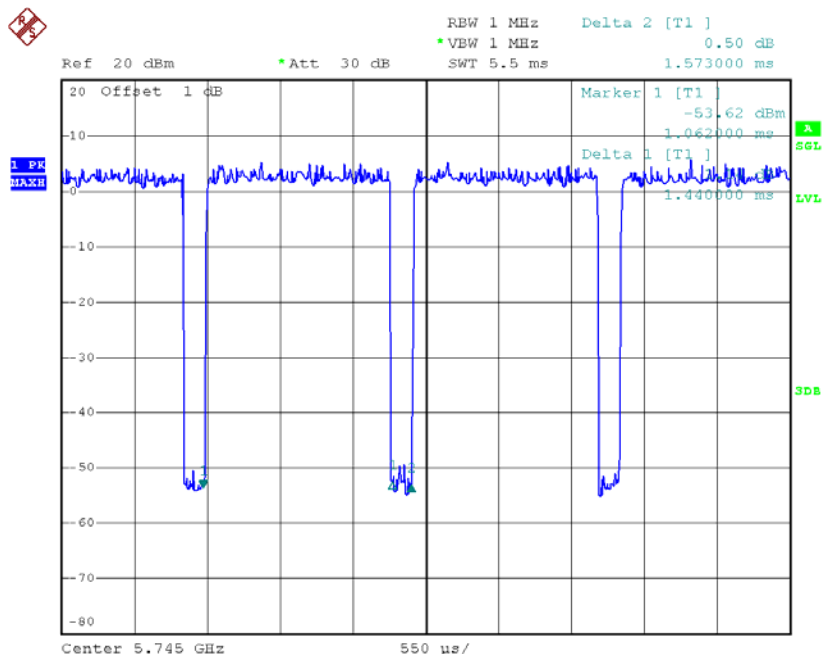
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	11589.9800	35.37	12.88	48.25	68.30	-20.05	Peak	
2	11589.9800	25.97	12.88	38.85	54.00	-15.15	AVG	

TX A Mode_DUTY CYCLE



Date: 19.JAN.2015 09:59:26

Duty cycle: TX DUTYMHz

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

T_{ON} :1.44msec

T_{Total} :1.57msec

Duty cycle: 91.72%

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

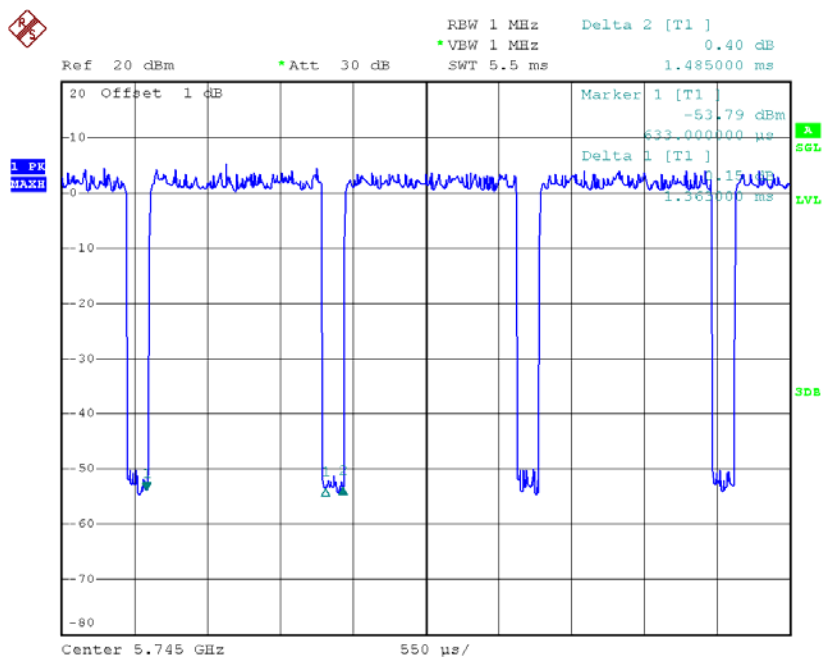
Duty Factor =0.38

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

Output Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

TX N20 Mode_DUTY CYCLE



Date: 19.JAN.2015 10:14:34

Duty cycle: TX DUTYMHz

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

T_{ON} :1.36msec

T_{Total} :1.48msec

Duty cycle:91.89%

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

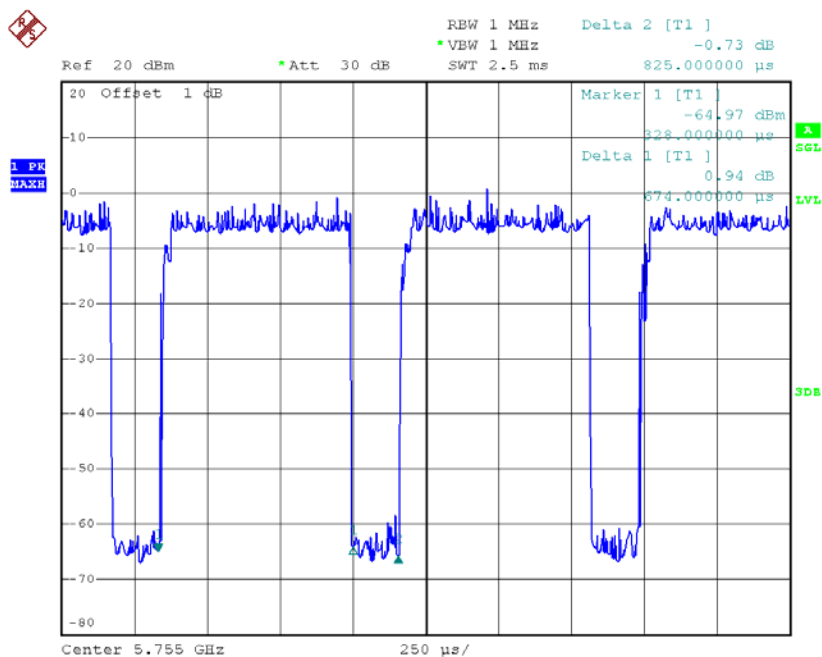
Duty Factor =0.37

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

Output Power = Measured power + Ducus factor

Power Spectral Density = Measured density + Duty factor

TX N40 Mode_DUTY CYCLE



Date: 19.JAN.2015 10:25:01

Duty cycle: TX DUTYMHz

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

T_{ON} :0.67msec

T_{Total} :0.82msec

Duty cycle: 81.71%

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

Duty Factor =0.88

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

Output Power = Measured power + Ducus factor

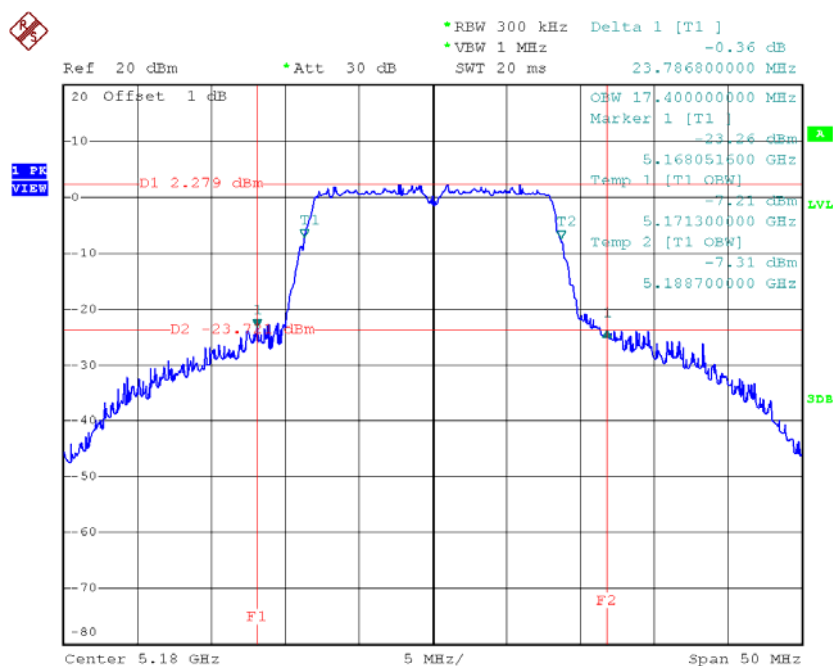
Power Spectral Density = Measured density + Duty factor

ATTACHMENTE -BANDWIDTH

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

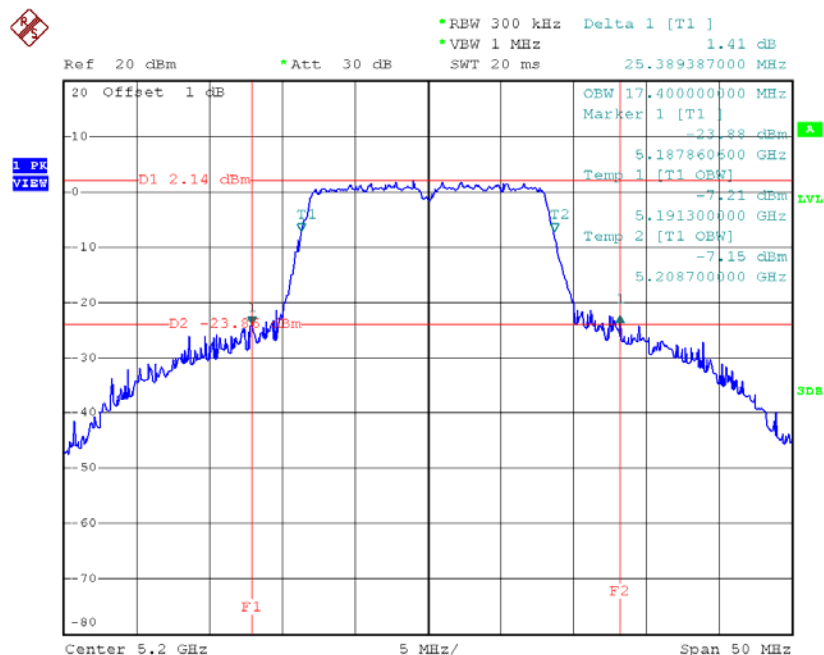
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	23.79	17.40
CH40	5200	25.39	17.40
CH48	5240	24.95	17.30

TX CH36



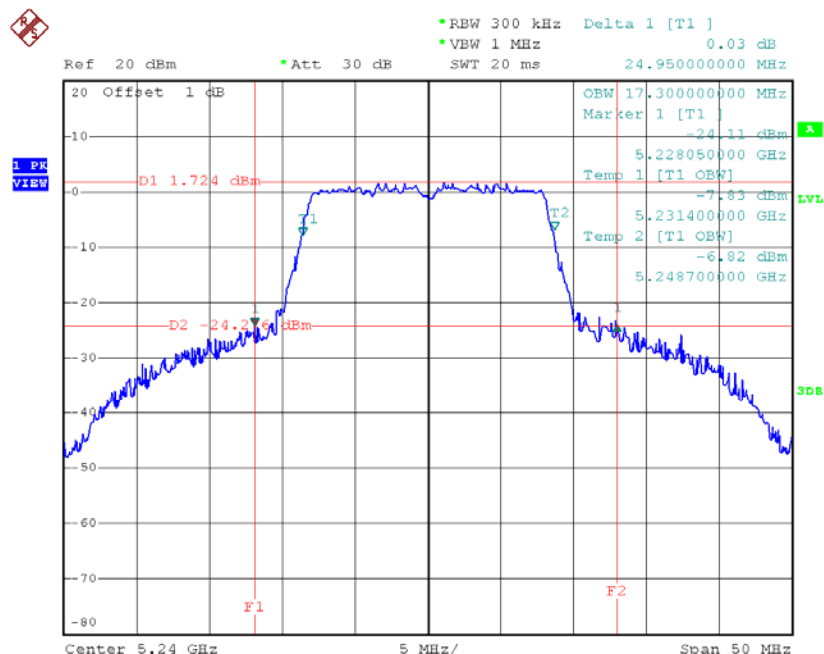
Date: 19.JAN.2015 09:49:00

TX CH40



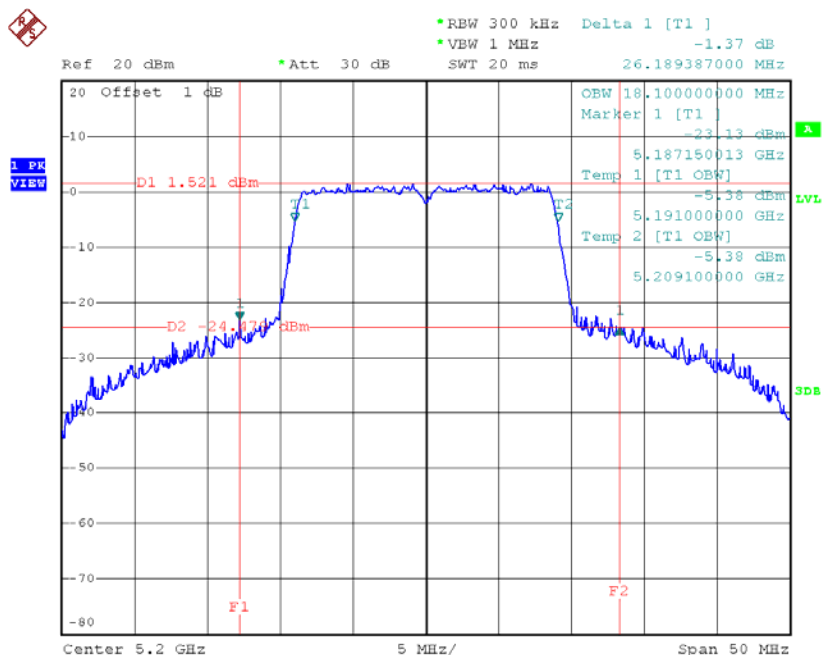
Date: 19.JAN.2015 09:51:03

TX CH48



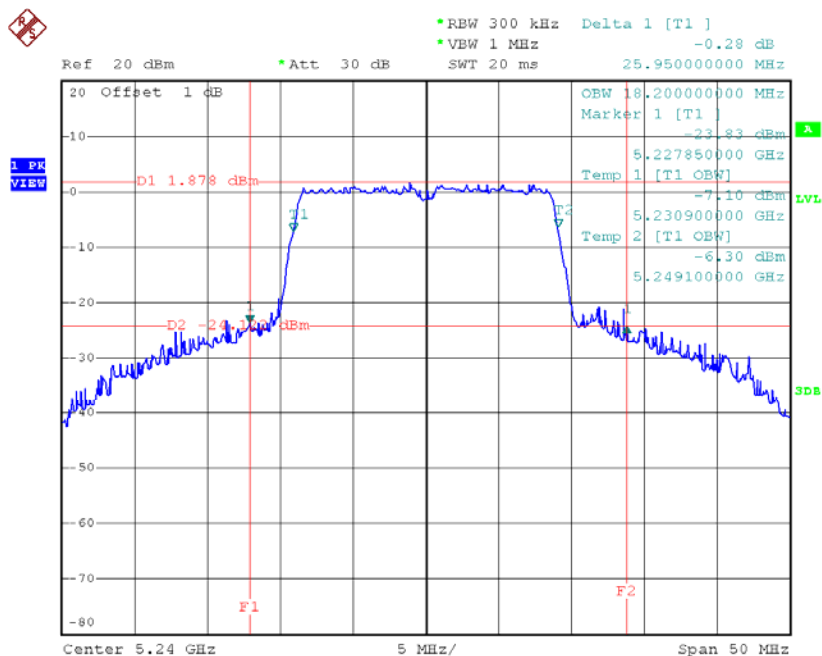
Date: 19.JAN.2015 09:52:58

TX CH40



Date: 19.JAN.2015 10:06:38

TX CH48

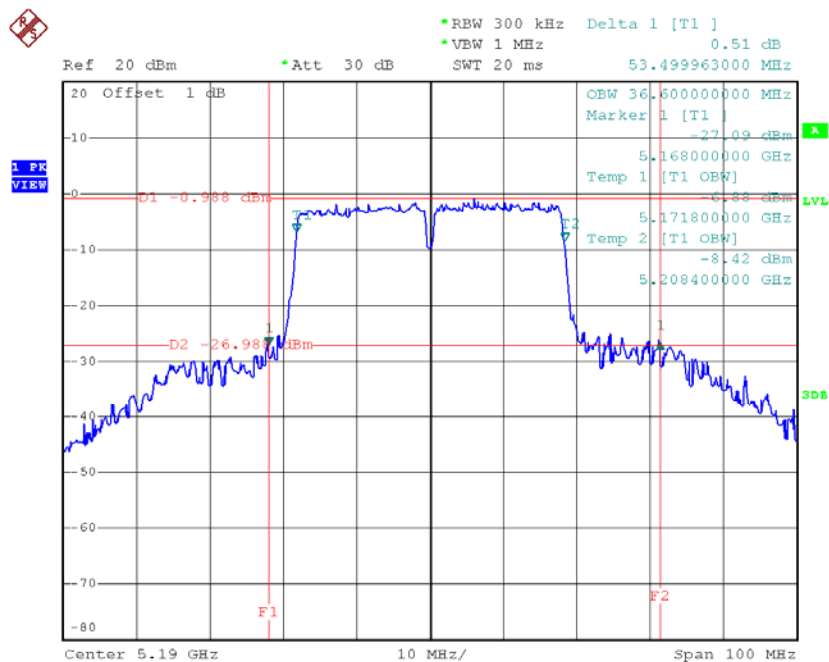


Date: 19.JAN.2015 10:08:02

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

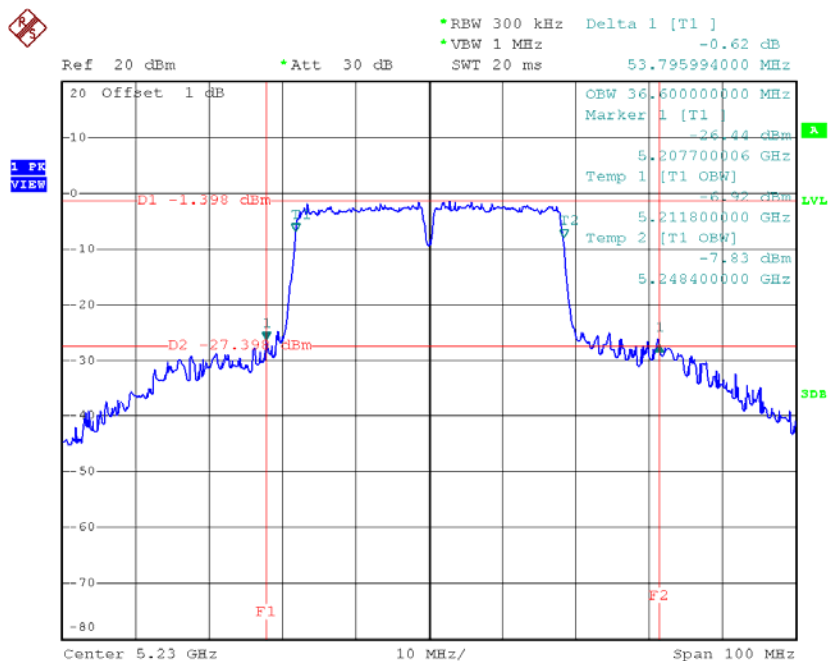
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH38	5190	53.50	36.60
CH46	5230	53.80	36.60

TX CH38



Date: 19.JAN.2015 10:20:01

TX CH46

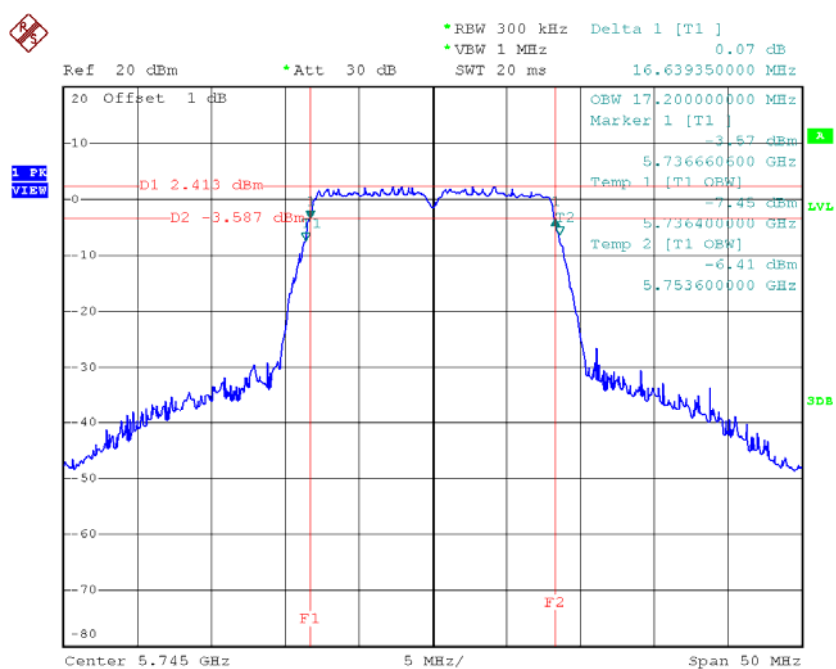


Date: 19.JAN.2015 10:22:30

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

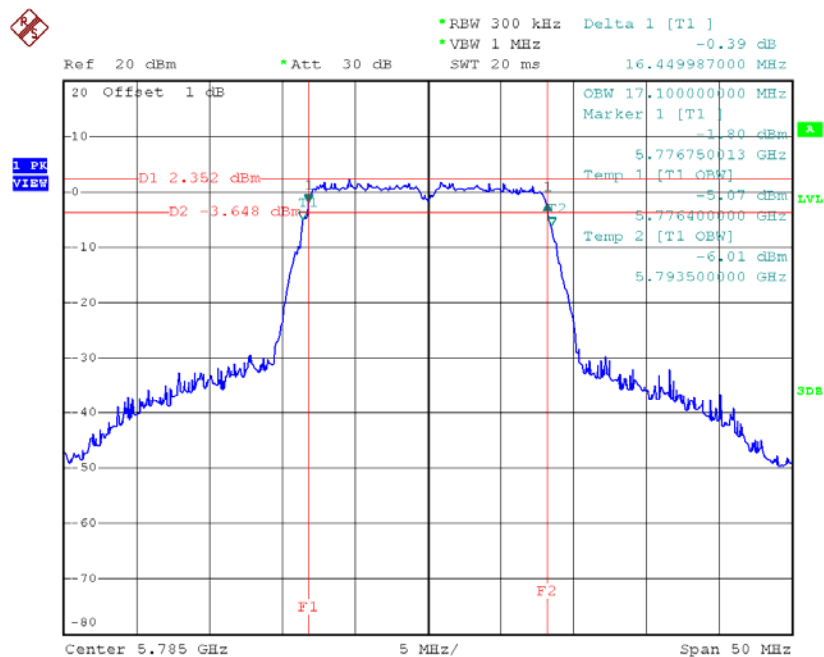
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	16.64	17.20	>=500
CH157	5785	16.45	17.10	>=500
CH165	5825	16.69	17.20	>=500

TX CH 149



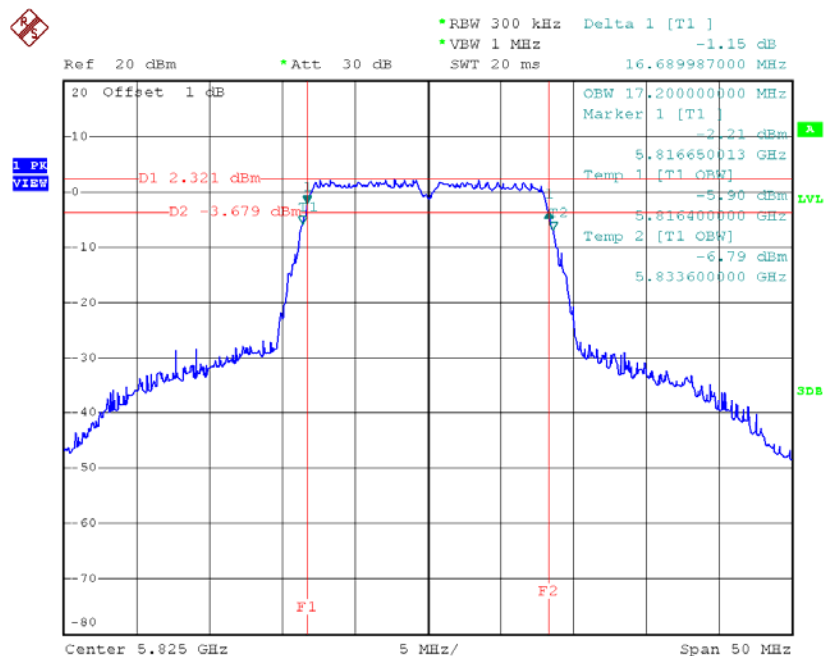
Date: 19.JAN.2015 09:58:47

TX CH 157



Date: 19.JAN.2015 10:00:44

TX CH 165

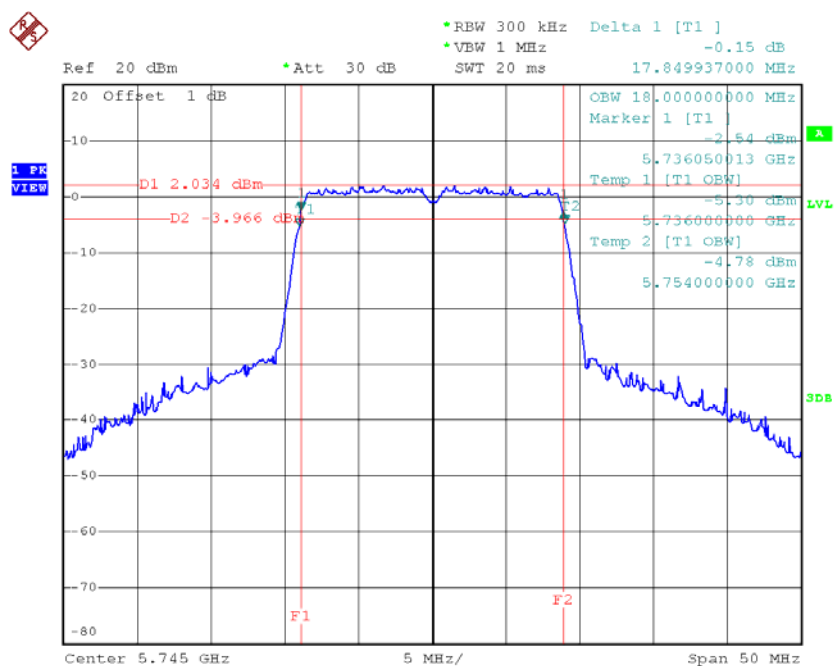


Date: 19.JAN.2015 10:02:06

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

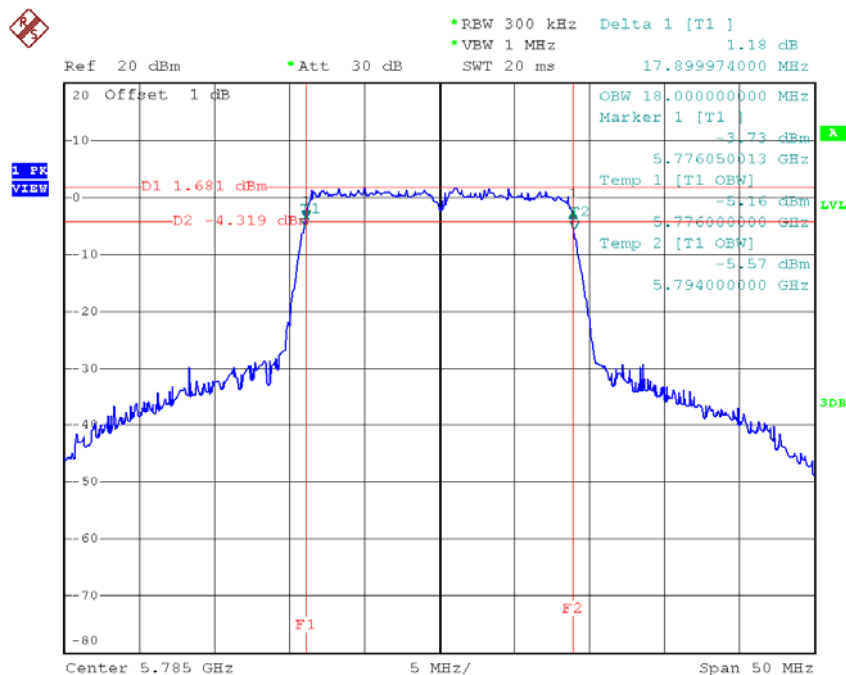
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH149	5745	17.85	18.00	>=500
CH157	5785	17.90	18.00	>=500
CH165	5825	17.85	18.00	>=500

TX CH 149



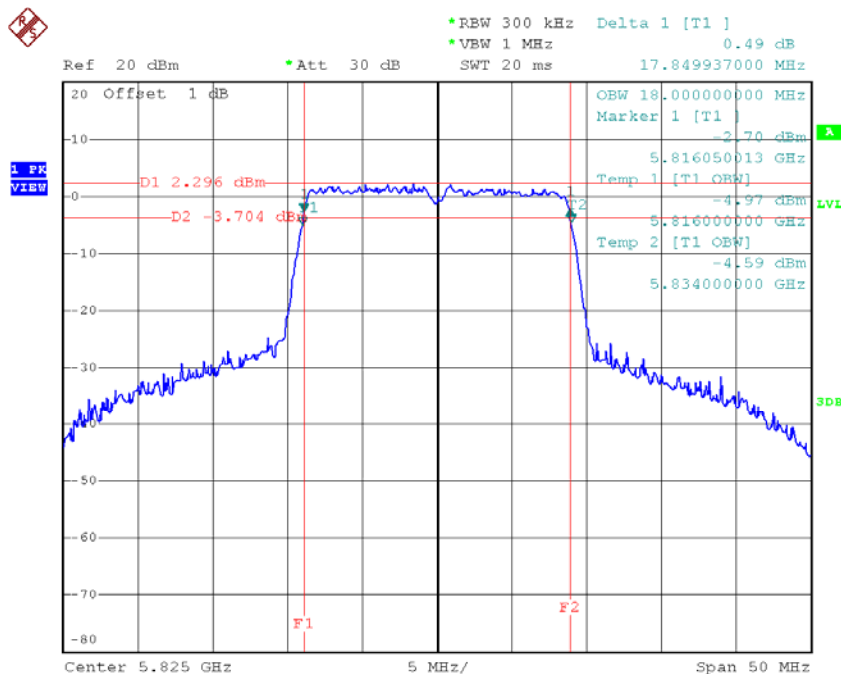
Date: 19.JAN.2015 10:13:55

TX CH 157



Date: 19.JAN.2015 10:15:17

TX CH 165

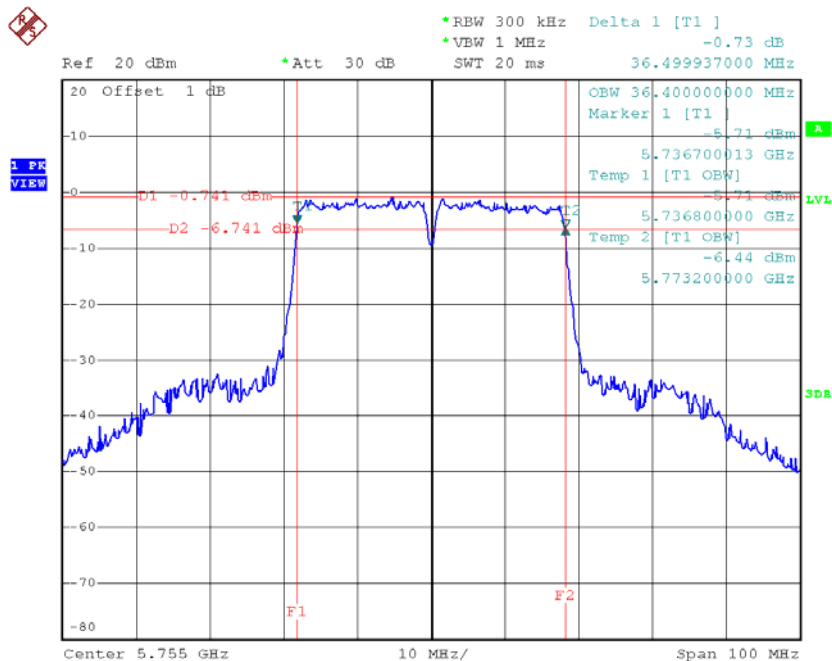


Date: 19.JAN.2015 10:16:14

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

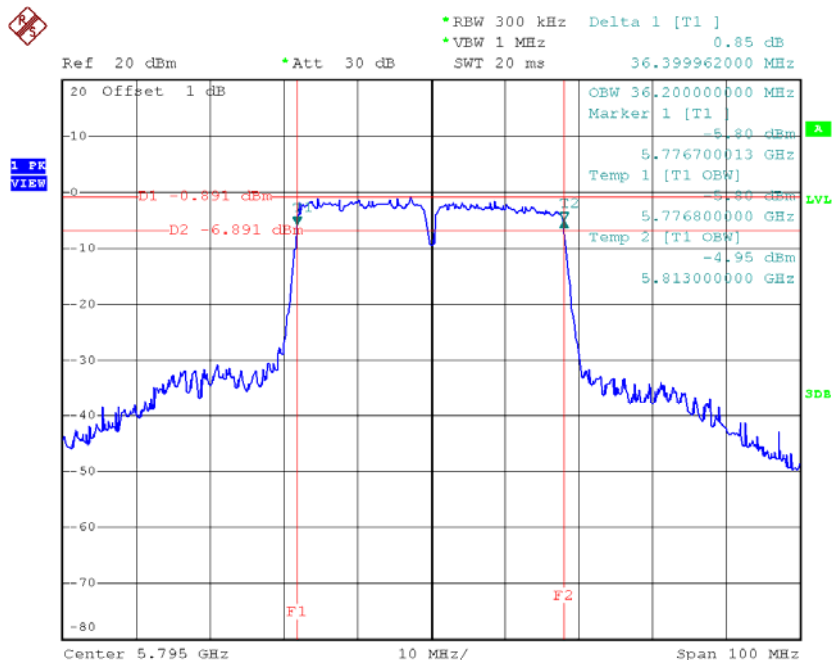
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit (kHz)
CH151	5755	36.50	36.40	>=500
CH159	5795	36.40	36.20	>=500

TX CH 151



Date: 19.JAN.2015 10:24:35

TX CH 159



Date: 19.JAN.2015 10:25:43

ATTACHMENTF - MAXIMUM OUTPUT POWER

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	8.93	0.38	9.31	24.00	0.25
CH40	5200	8.91	0.38	9.29	24.00	0.25
CH48	5240	8.60	0.38	8.98	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	8.77	0.37	9.14	24.00	0.25
CH40	5200	8.76	0.37	9.13	24.00	0.25
CH48	5240	8.68	0.37	9.05	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	8.55	0.88	9.43	24.00	0.25
CH46	5230	8.43	0.88	9.31	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	9.11	0.38	9.49	30.00	1.00
CH157	5785	8.81	0.38	9.19	30.00	1.00
CH165	5825	9.31	0.38	9.69	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	9.12	0.37	9.49	30.00	1.00
CH157	5785	8.74	0.37	9.11	30.00	1.00
CH165	5825	9.23	0.37	9.60	30.00	1.00

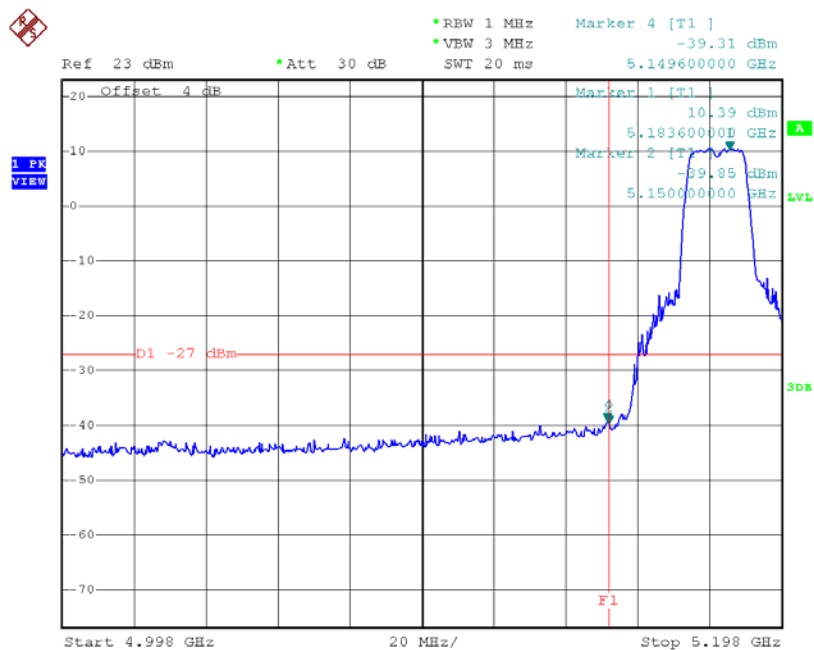
Test Mode: UNII-3/ TX N40 Mode

Channel	Frequency (MHz)	Output Power (dBm)	Duty Factor (dBm)	Output Power+Duty Factor (dBm)	Limit (dBm)	Limit (Watt)
CH151	5755	8.60	0.88	9.48	30.00	1.00
CH159	5795	8.62	0.88	9.50	30.00	1.00

ATTACHMENTG - ANTENNA CONDUCTED SPURIOUS EMISSION

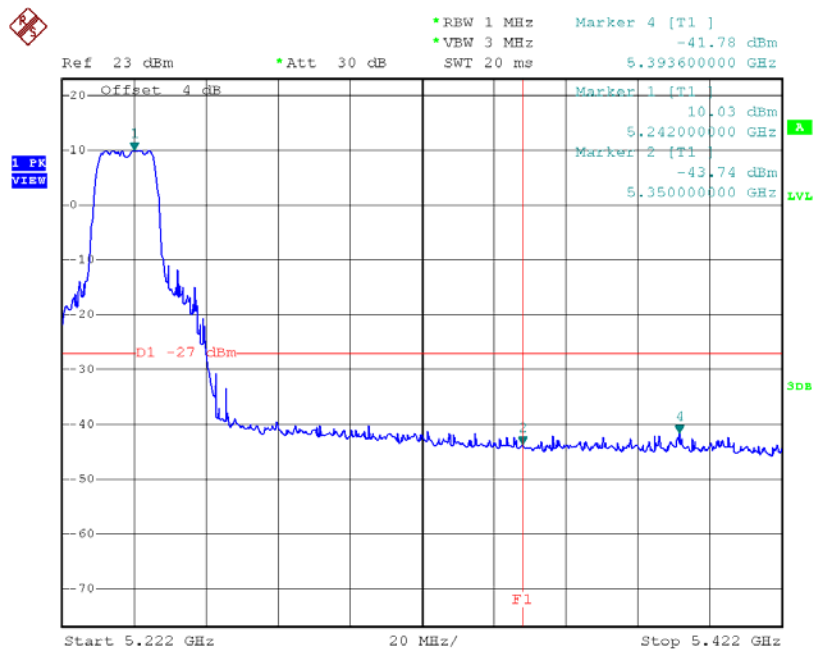
Test Mode: UNII-1/TX A Mode

TX mode CH36



Date: 19.JAN.2015 09:49:16

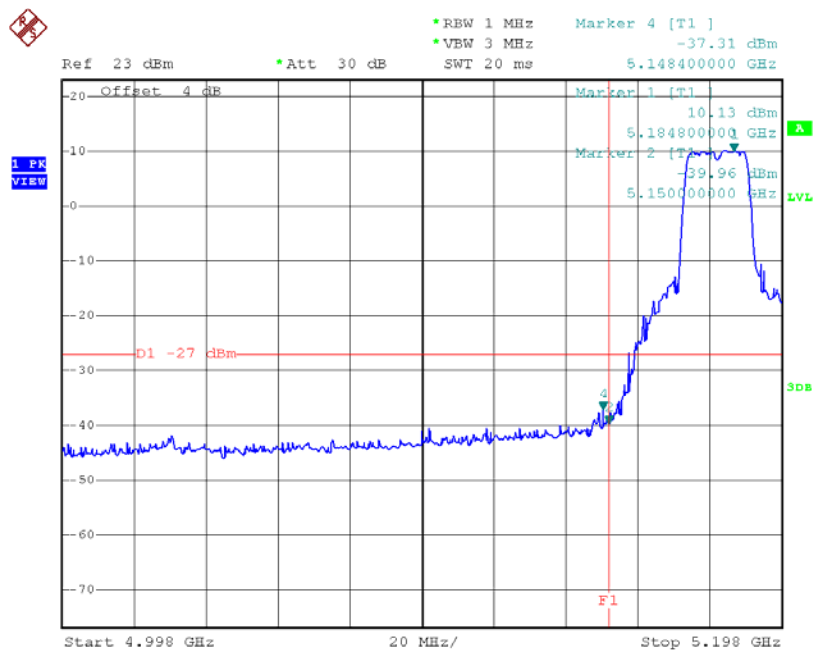
TX mode CH48



Date: 19.JAN.2015 09:53:15

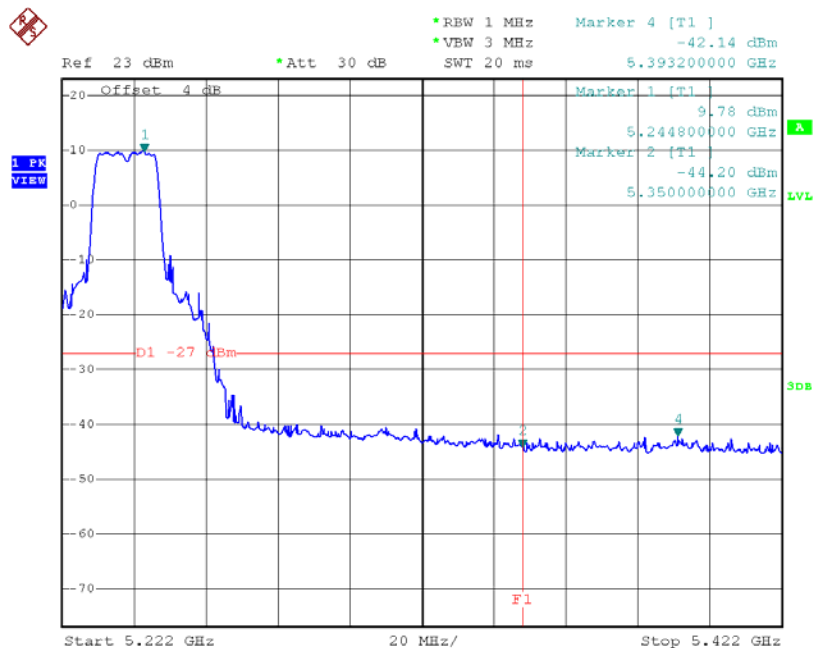
Test Mode:	UNII-1/TX N20 Mode
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TX mode CH36



Date: 19.JAN.2015 10:05:34

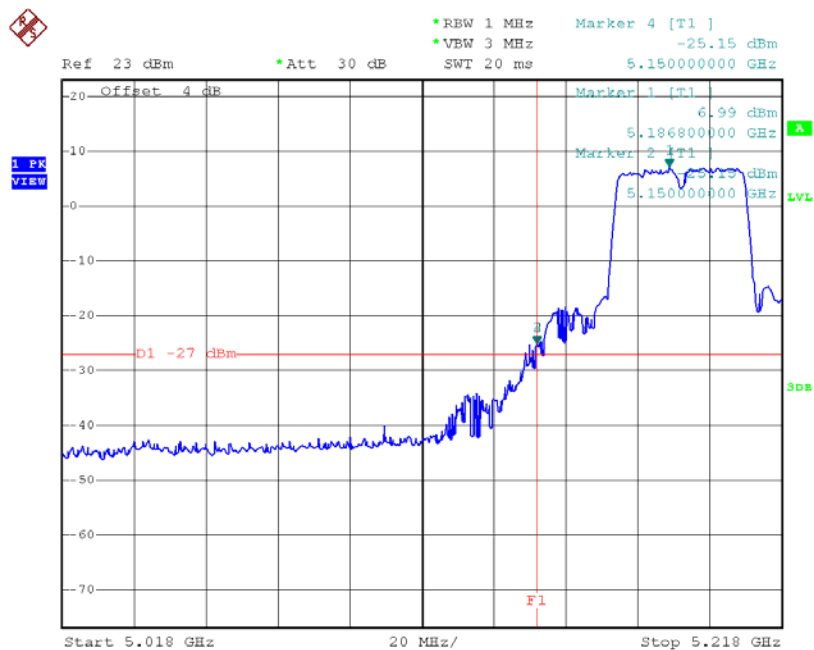
TX mode CH48



Date: 19.JAN.2015 10:08:19

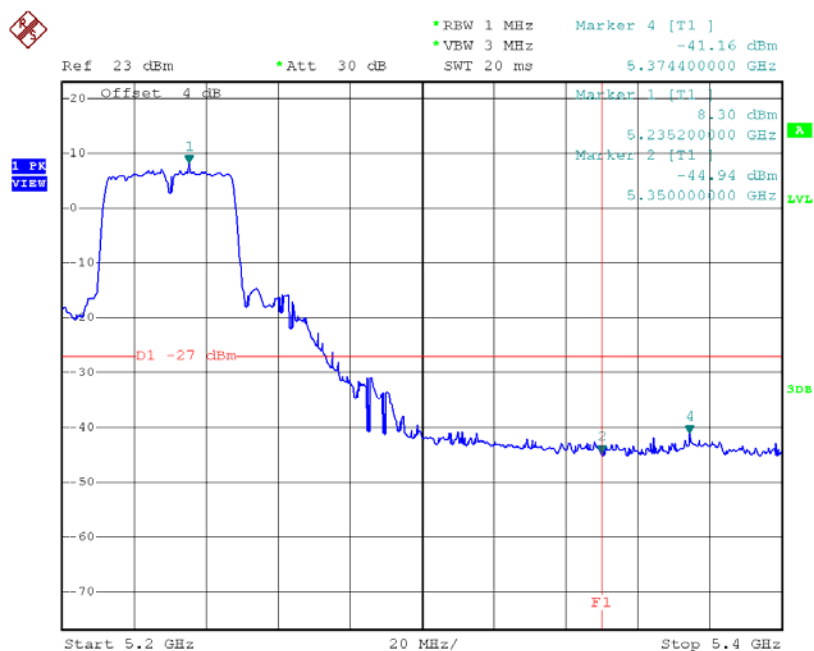
Test Mode:	UNII-1/TX N40 Mode
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TX mode CH38



Date: 19.JAN.2015 10:20:18

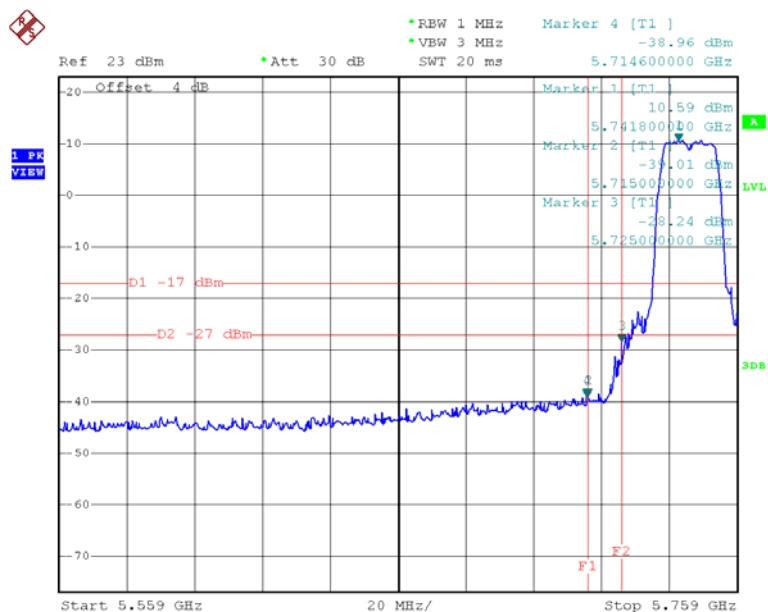
TX mode CH46



Date: 19.JAN.2015 10:22:46

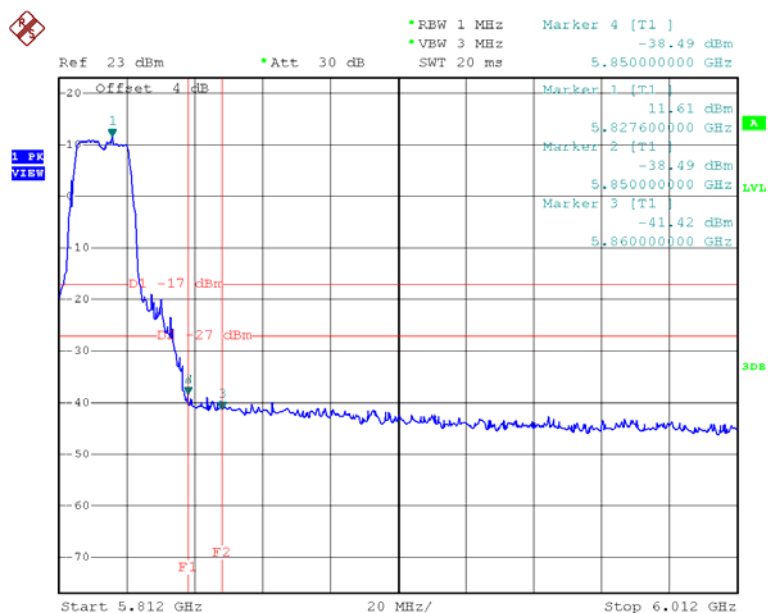
Test Mode: UNII-3/TX A Mode

TX A Mode CH149



Date: 19.JAN.2015 09:59:03

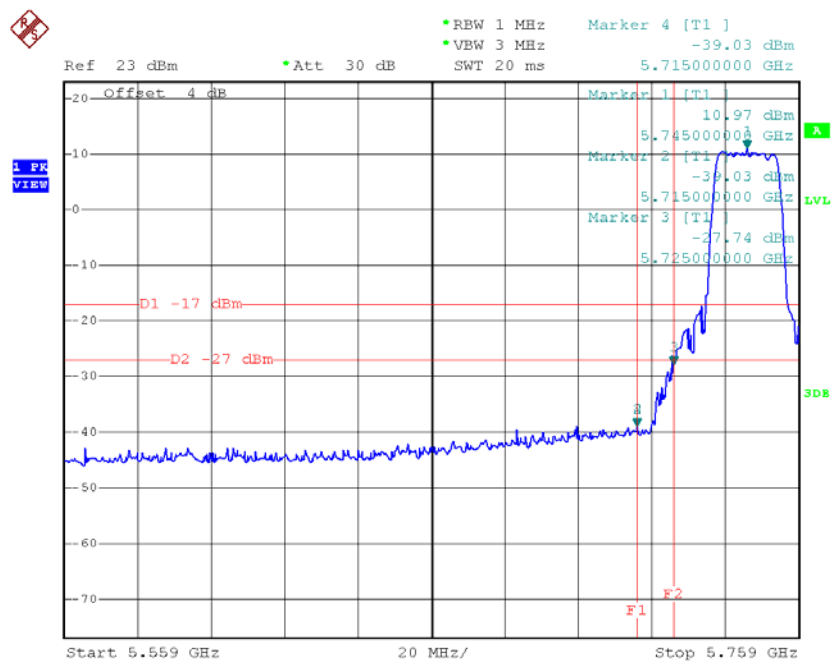
TX A Mode CH165



Date: 19.JAN.2015 10:02:23

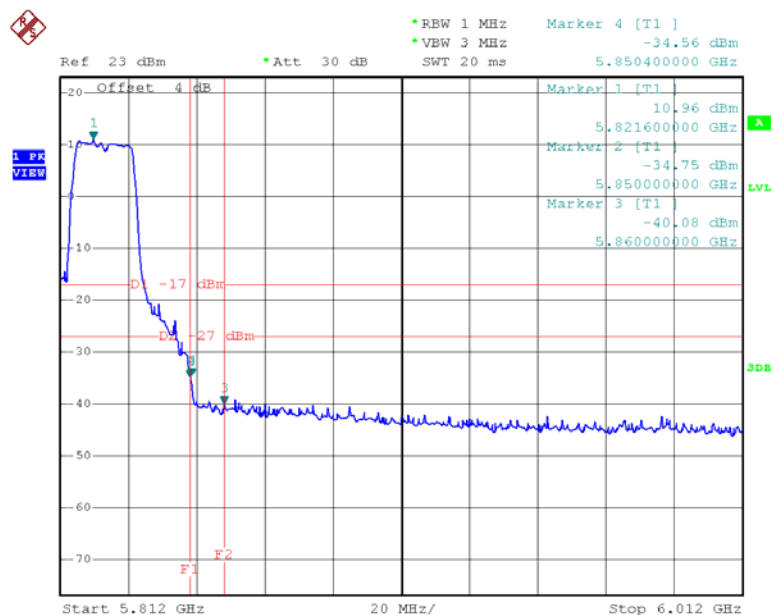
Test Mode: UNII-3/TX N20 Mode

TX HT20 mode CH149



Date: 19.JAN.2015 10:14:12

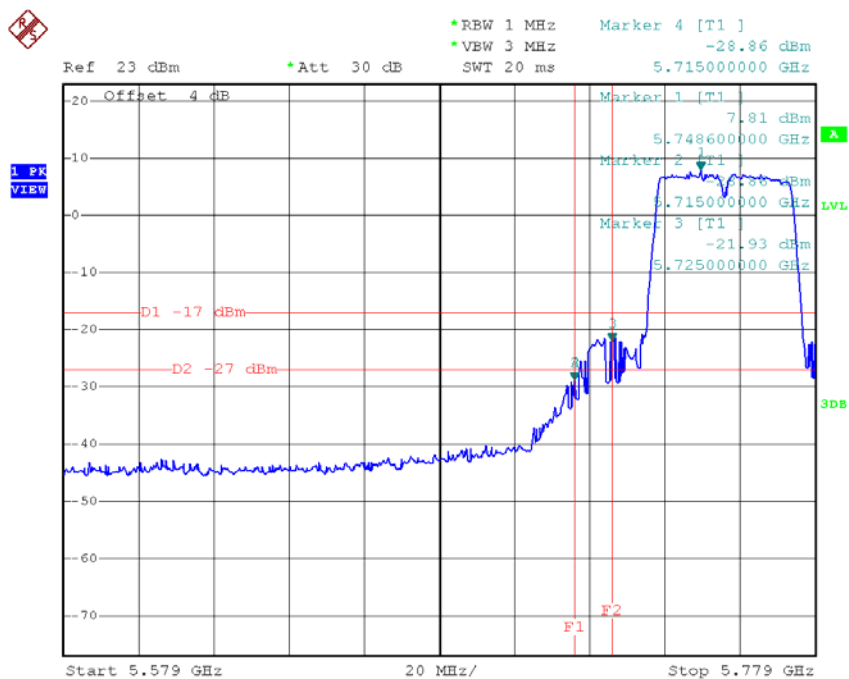
TX HT20 mode CH165



Date: 19.JAN.2015 10:16:31

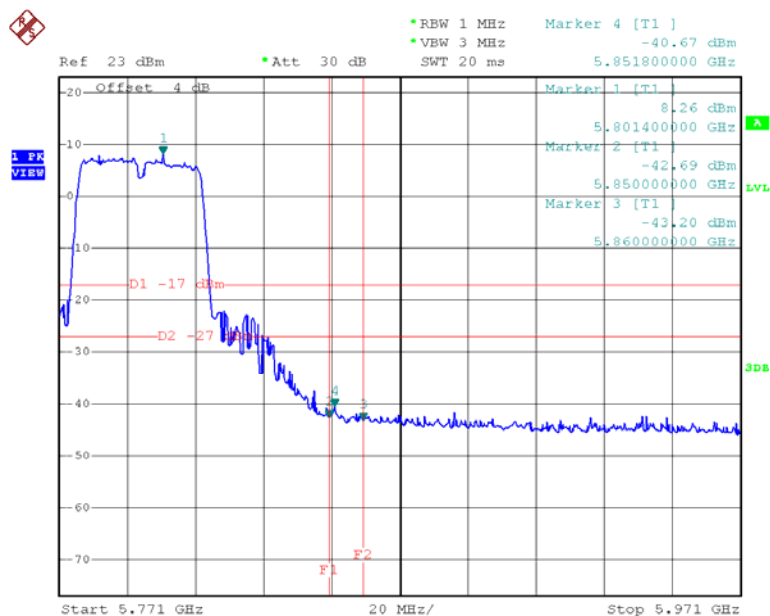
Test Mode: UNII-3/TX N40 Mode

UNII-3/TX HT40 mode CH151



Date: 19.JAN.2015 10:24:51

UNII-3/TX HT40 mode CH159

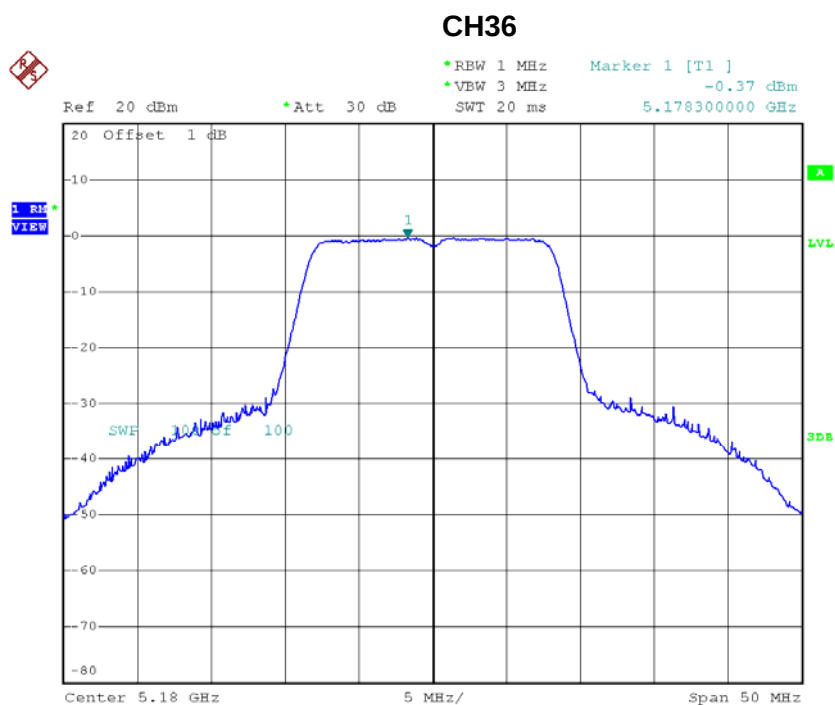


Date: 19.JAN.2015 10:26:00

ATTACHMENTH - POWER SPECTRAL DENSITY

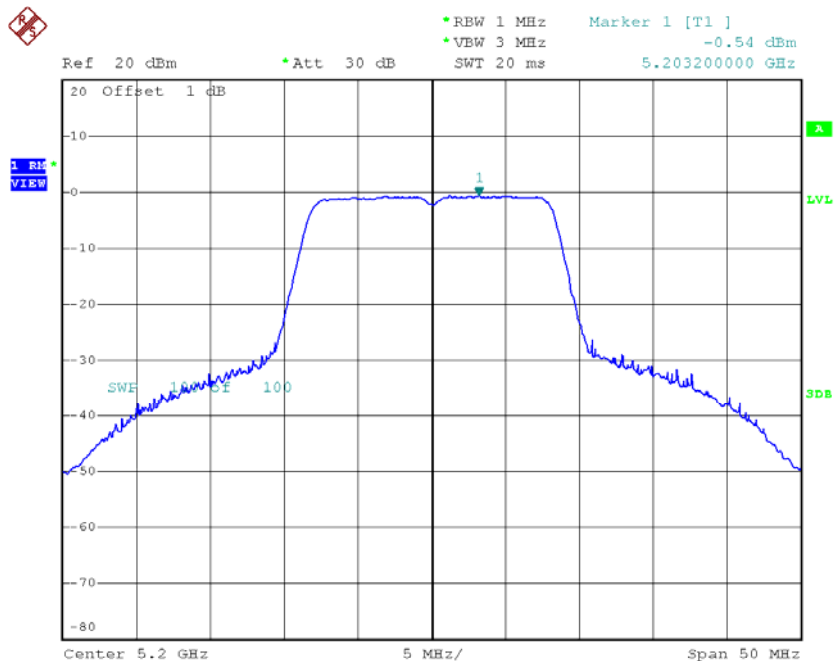
Test Mode: UNII-1/ TX A Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density+Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	-0.37	0.38	0.01	11.00
CH40	5200	-0.54	0.38	-0.16	11.00
CH48	5240	-0.67	0.38	-0.29	11.00



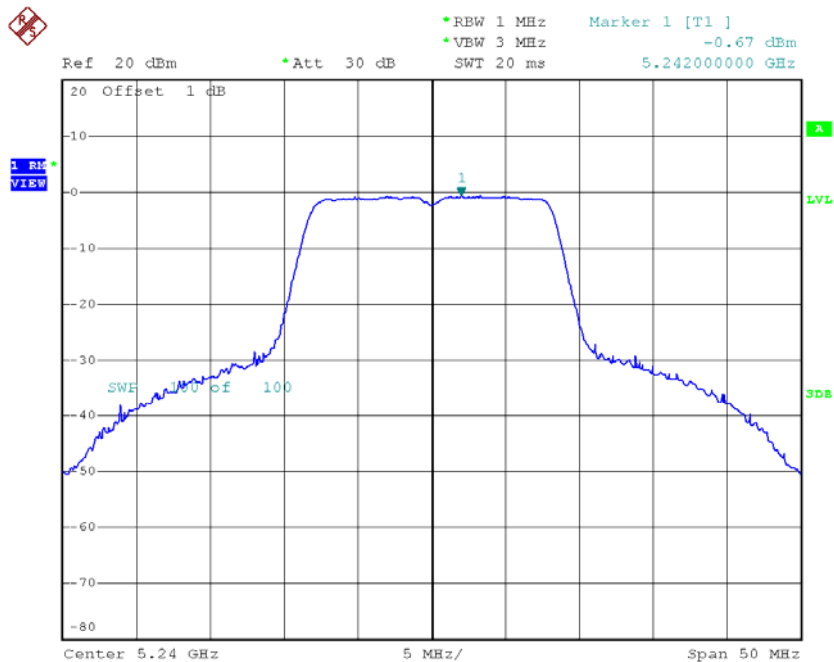
Date: 19.JAN.2015 09:49:09

CH40



Date: 19.JAN.2015 09:51:12

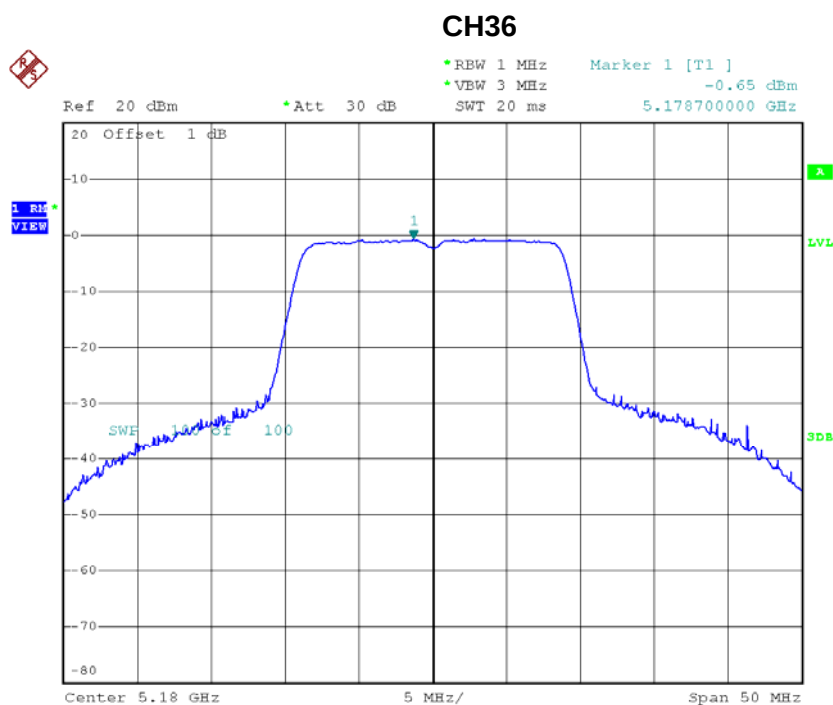
CH48



Date: 19.JAN.2015 09:53:07

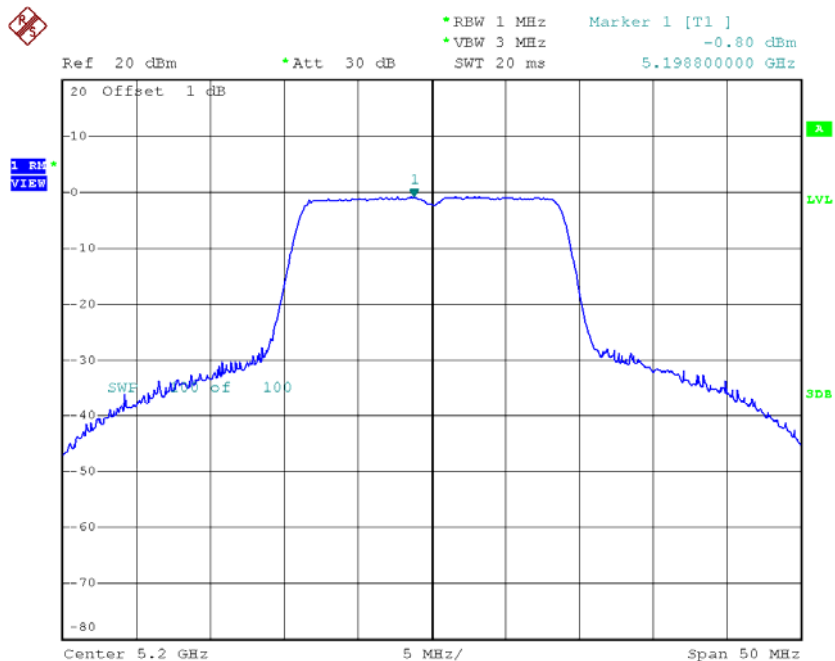
Test Mode: UNII-1/TX N20 Mode_CH36/CH40/CH48

Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density+Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH36	5180	-0.65	0.37	-0.28	11.00
CH40	5200	-0.80	0.37	-0.43	11.00
CH48	5240	-1.09	0.37	-0.72	11.00



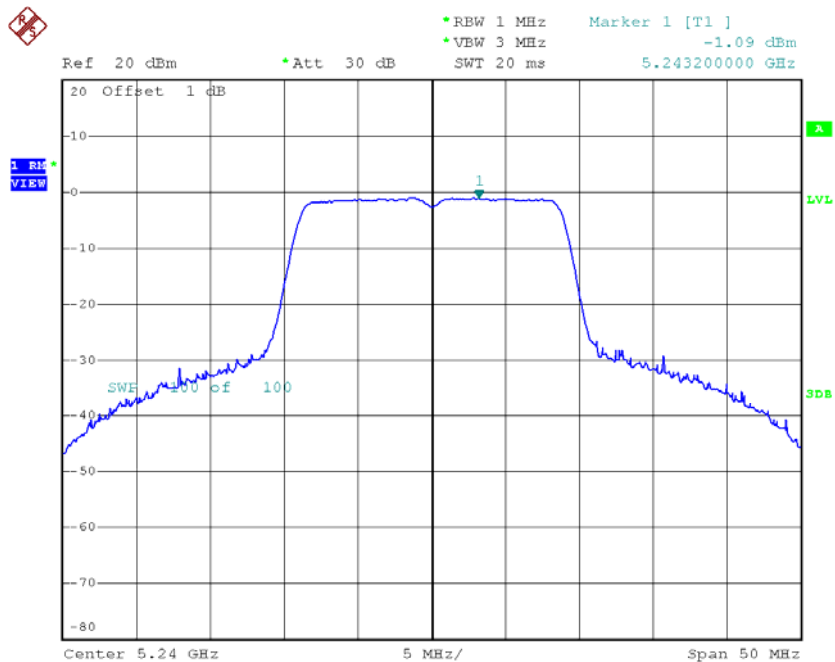
Date: 19.JAN.2015 10:05:27

CH40



Date: 19.JAN.2015 10:06:47

CH48

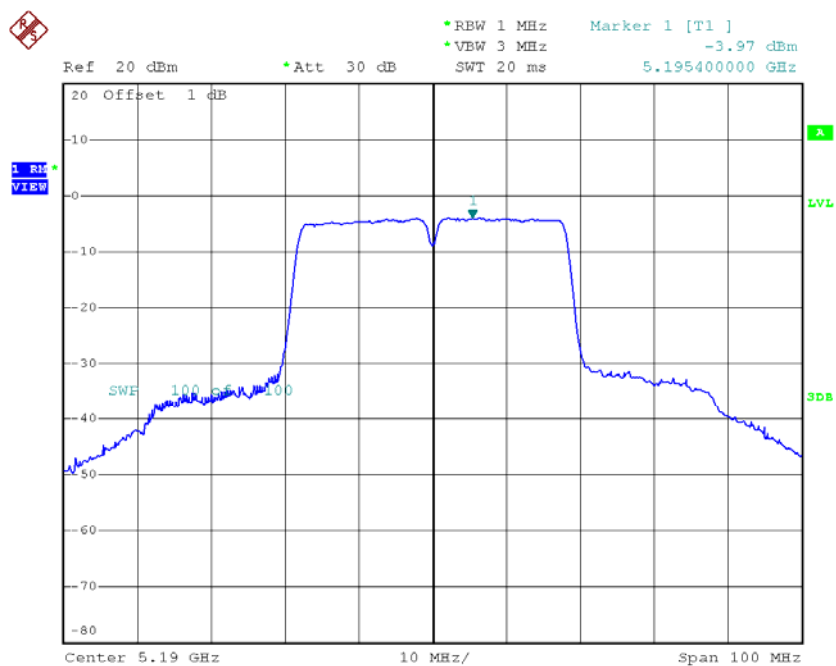


Date: 19.JAN.2015 10:08:11

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

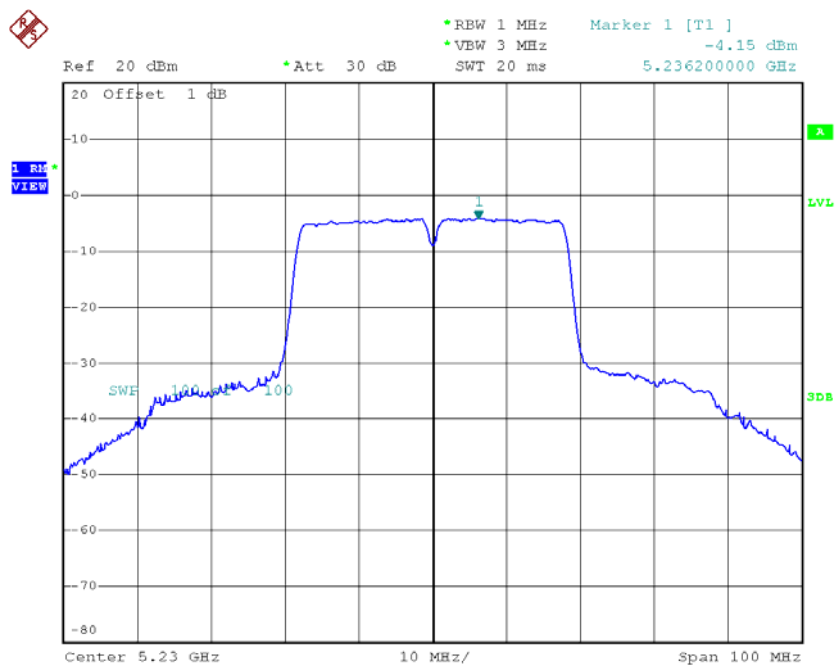
Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density+Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH38	5190	-3.97	0.88	-3.09	11.00
CH46	5230	-4.15	0.88	-3.27	11.00

CH38



Date: 19.JAN.2015 10:20:11

CH46

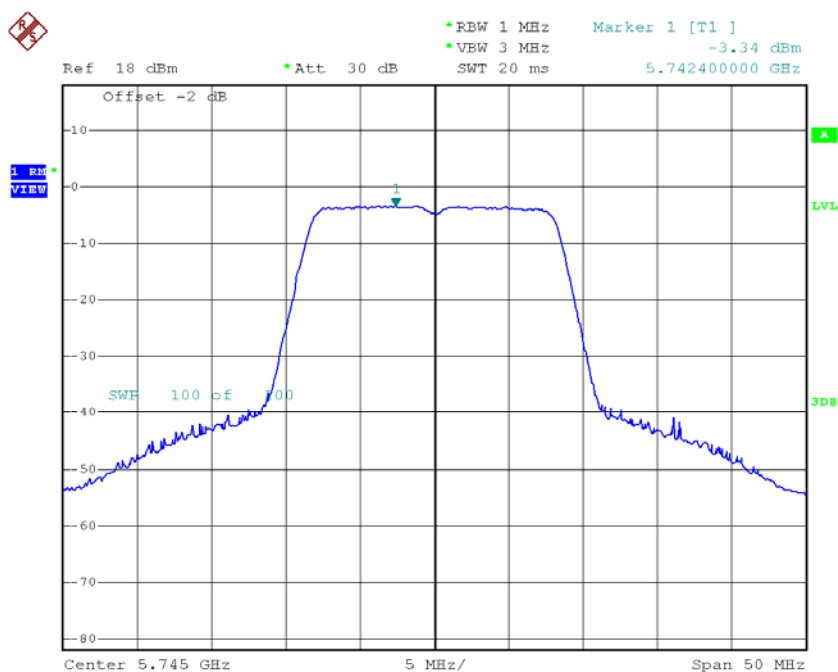


Date: 19.JAN.2015 10:22:39

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

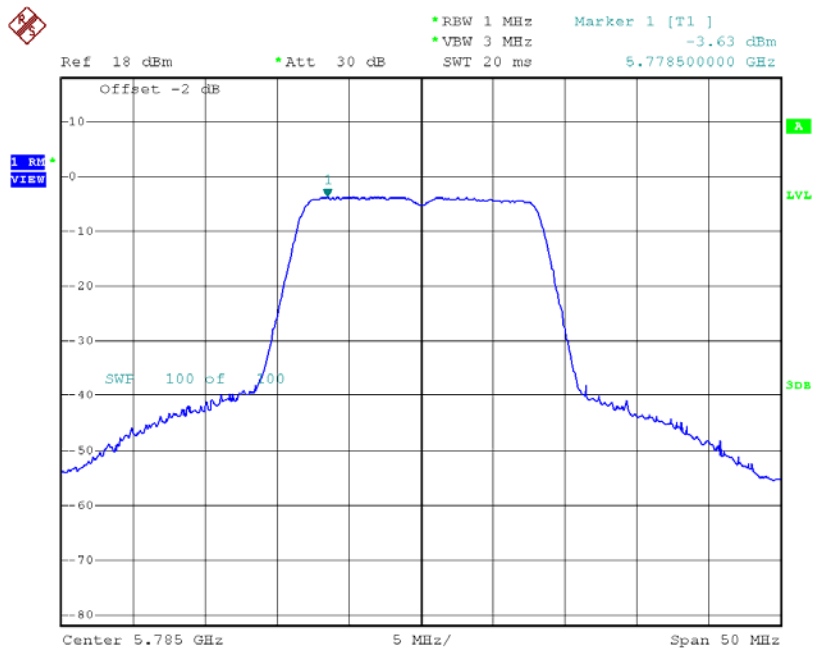
Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density+Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH149	5745	-3.34	0.38	-2.96	30.00
CH157	5785	-3.63	0.38	-3.25	30.00
CH165	5825	-3.11	0.38	-2.73	30.00

TX CH149



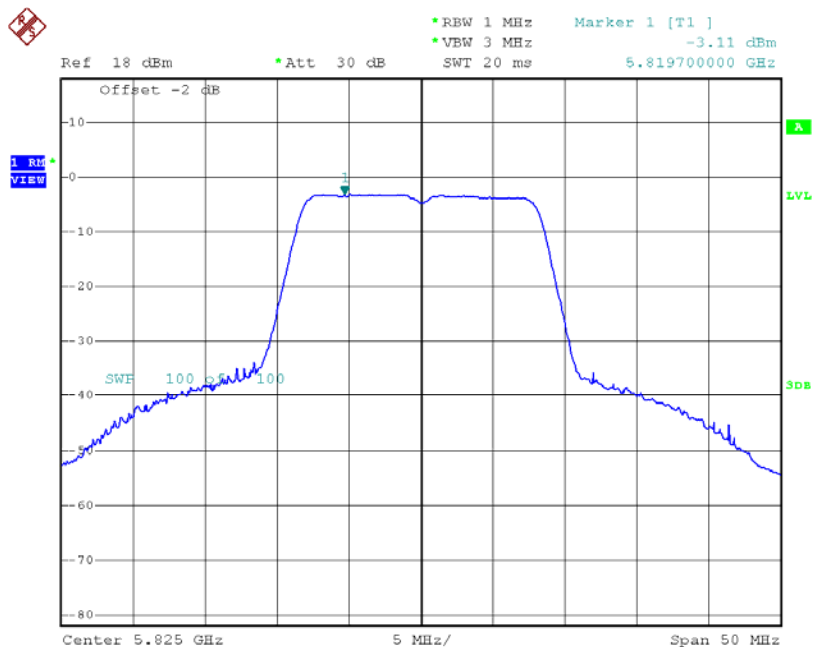
Date: 19.JAN.2015 09:58:56

TX CH157



Date: 19.JAN.2015 10:00:53

TX CH165

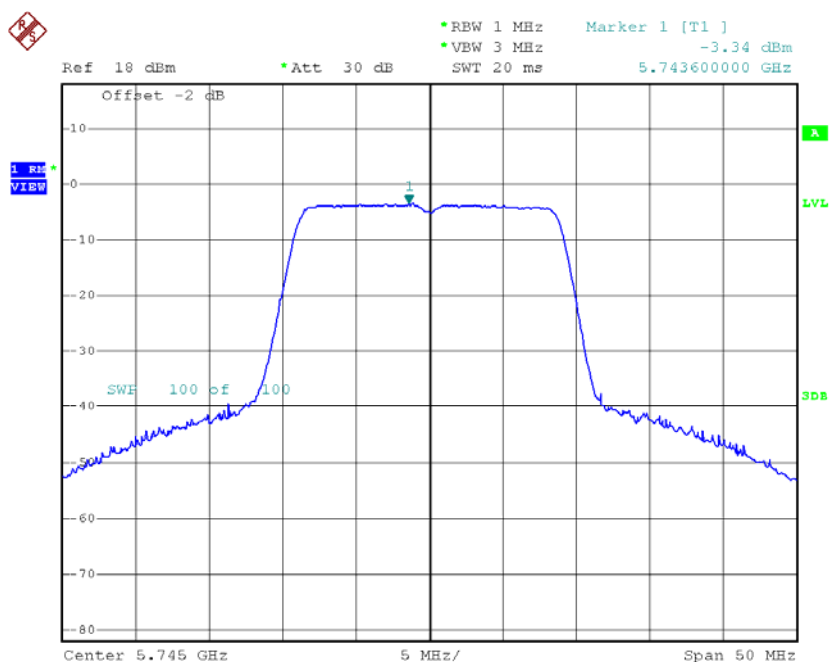


Date: 19.JAN.2015 10:02:15

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

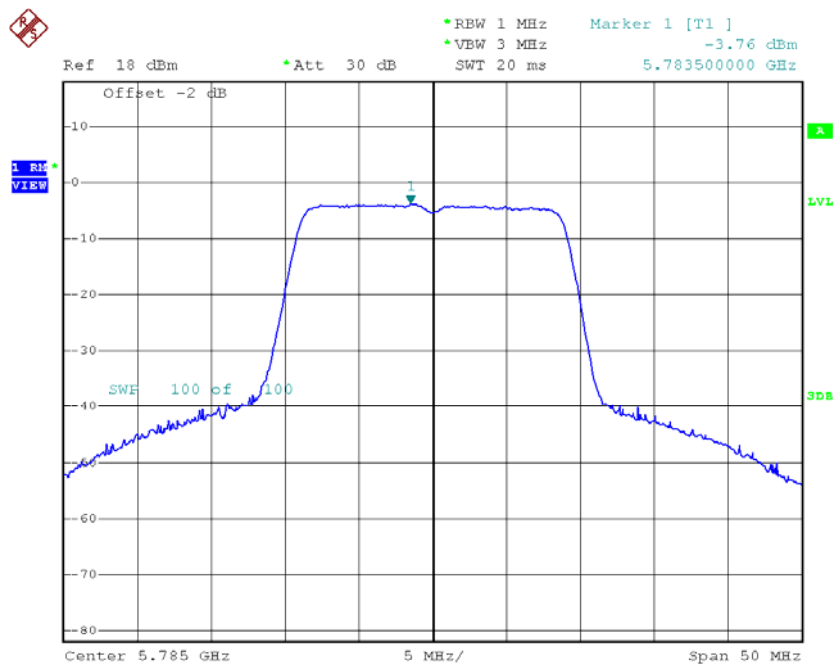
Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density+Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH149	5745	-3.34	0.37	-2.97	30.00
CH157	5785	-3.76	0.37	-3.39	30.00
CH165	5825	-2.88	0.37	-2.51	30.00

TX CH149



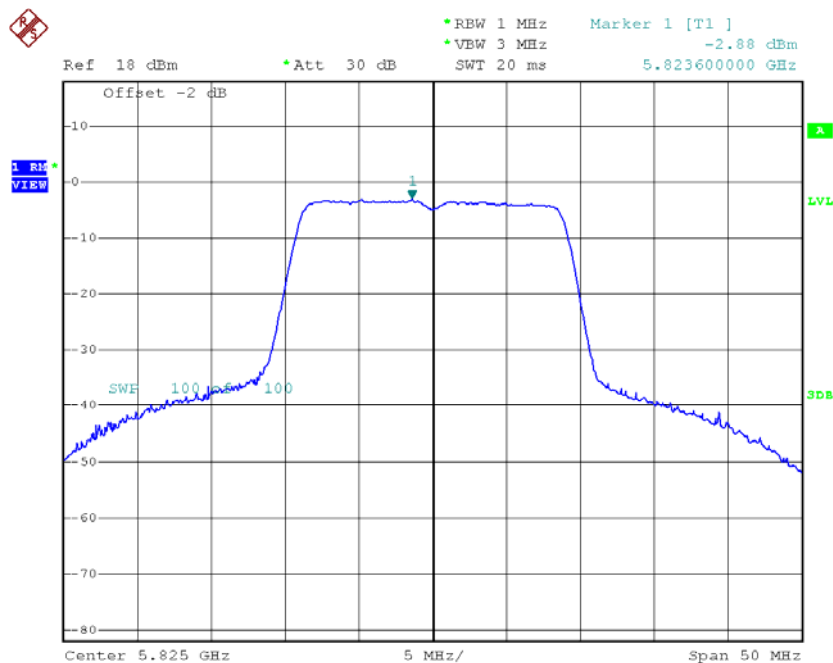
Date: 19.JAN.2015 10:14:05

TX CH157



Date: 19.JAN.2015 10:15:26

TX CH165

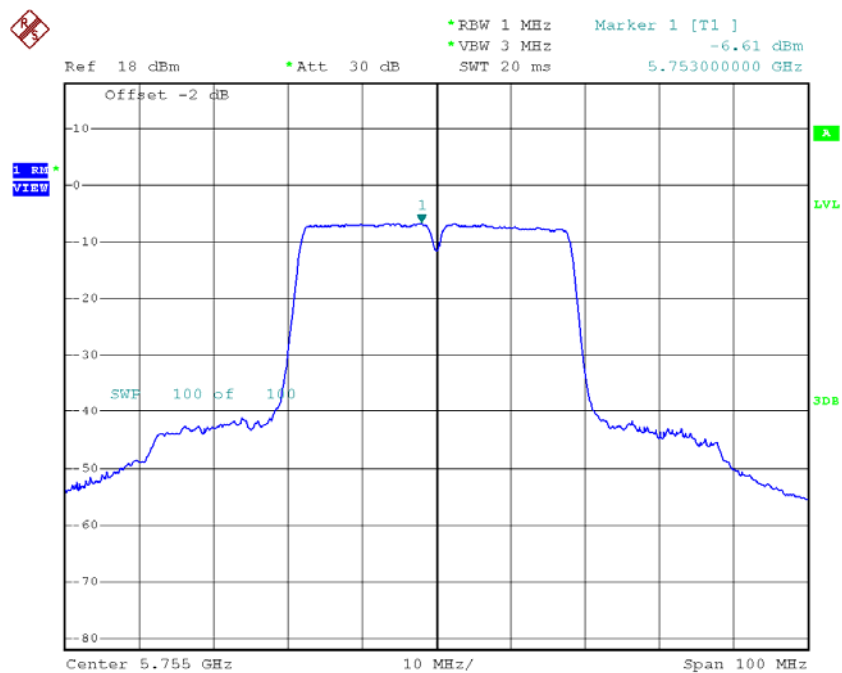


Date: 19.JAN.2015 10:16:23

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

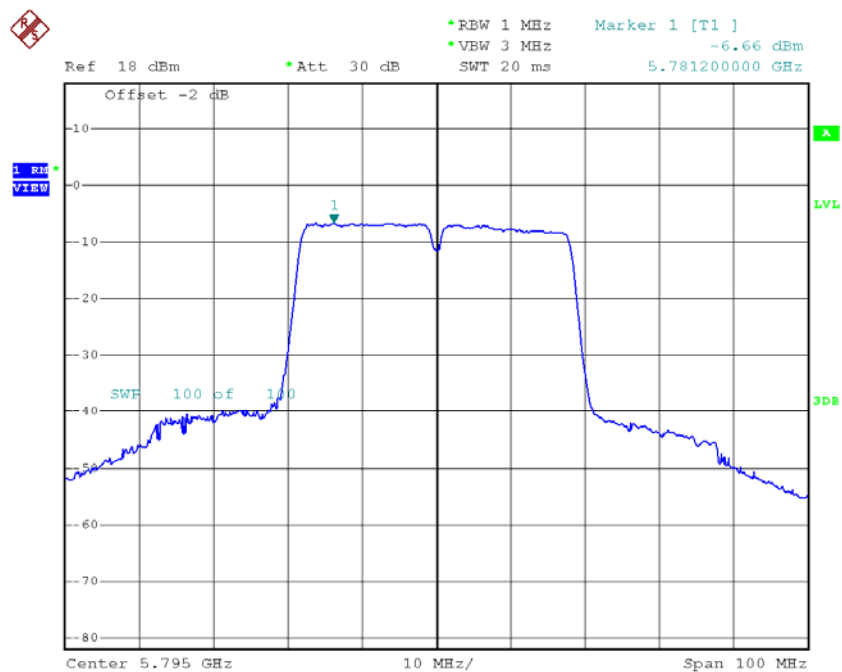
Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Factor (dBm/MHz)	Power Density+Duty Factor (dBm/MHz)	Limit (dBm/MHz)
CH151	5755	-6.61	0.88	-5.73	30.00
CH159	5795	-6.66	0.88	-5.78	30.00

TX CH151



Date: 19.JAN.2015 10:24:44

TX CH159



Date: 19.JAN.2015 10:25:52

ATTACHMENTI-FREQUENCY STABILITY

Test Mode:	UNII-1
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Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5180.0000
132	5179.9978
120	5179.9990
108	5179.9989
Max. Deviation (MHz)	0.0022
Max. Deviation (ppm)	0.4247

Temperature vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(°C)	5180.0000
0	5179.9965
10	5179.9987
20	5179.9992
25	5179.9990
30	5179.9996
40	5180.0032
Max. Deviation (MHz)	5180.0000
Max. Deviation (ppm)	1000000.0000

Test Mode:	UNII-3
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Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5745.0000
132	5745.0148
120	5745.0150
108	5745.0312
Max. Deviation (MHz)	0.0312
Max. Deviation (ppm)	5.4308

Temperature vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(°C)	5745.0000
0	5745.0085
10	5745.0189
20	5745.0136
25	5745.0150
35	5745.0132
40	5745.0210
Max. Deviation (MHz)	5745.0000
Max. Deviation (ppm)	1000000.0000