



FCC Radio Test Report

FCC ID: QMPM505PLUS

This report concerns (check o	ne): ⊠Original Grant □Class I Change □Class II Change
Equipment : Model Name : Applicant : Address :	1707C123 ADSL2+/Ethernet WAN,Broadband Gateway M505+ DQ TECHNOLOGY, INC. 1343 Columbia Dr., #415, Richardson, TX 75081, U.S.A
Date of Test : Issued Date :	Jul. 17, 2017 Jul. 17, 2017 ~ Aug. 08, 2017 Aug. 09, 2017 BTL Inc.
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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-1-1707C123	Original Issue.	Aug. 09, 2017

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1. CERTIFICATION

Equipment : ADSL2+/Ethernet WAN, Broadband Gateway

Brand Name: VisionNet

Model Name: M505+

Applicant : DQ TECHNOLOGY, INC. Manufacturer : DQ TECHNOLOGY, INC.

Address : 1343 Columbia Dr., #415, Richardson, TX 75081, U.S.A

Date of Test : Jul. 17, 2017 ~ Aug. 08, 2017

Test Sample: Engineering Sample

Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1707C123) 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).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C				
Standard(s) Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247(d)	Antenna conducted Spurious Emission	PASS		
15.247(a)(2)	6dB Bandwidth	PASS		
15.247(b)(3)	Peak Output Power	PASS		
15.247(e)	Power Spectral Density	PASS		
15.203	Antenna Requirement	PASS		
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS		

NOTE:

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

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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

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9KHz~30MHz	V	3.79
		9KHz~30MHz	Н	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	Η	3.78
DG-CB03	CISPR	200MHz ~ 1,000MHz	H/V V H V	4.10
	CISEN	200MHz ~ 1,000MHz		4.06
		1GHz~18GHz	>	3.12
		1GHz~18GHz	Ι	3.68
		18GHz~40GHz	٧	4.15
		18GHz~40GHz	Ι	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.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	ADSL2+/Ethernet WAN,Broadband Gateway		
Brand Name	© VisionNet [™]		
Model Name	M505+		
Model Difference	N/A		
	Operation Frequency	2412~2462 MHz	
Product Description	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM	
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps	
	Output Power (Max.)	802.11b: 21.62dBm 802.11g: 29.82dBm 802.11n(20MHz): 29.58dBm 802.11n(40MHz): 29.17dBm	
Power Source	DC Voltage supplied from AC/DC adapter. Model: RD1201000-C55-26MG		
Power Rating	I/P: 100~240V ~ 50/60Hz 0.6A MAX O/P: 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:

	CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

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3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	PCB	N/A	3.3	N/A
2	N/A	N/A	PCB	N/A	3.3	N/A

4.

The worst case for 1TX/ 2TX as follow:

Operating Mode	1TX	2TX
TX Mode	IIX	ZIX
802.11b	V (ANT2)	-
802.11g	V (ANT2)	-
802.11n(20MHz)	-	V (ANT1 + ANT2)
802.11n(40MHz)	-	V (ANT1 + ANT2)

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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 B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	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 5	TX MODE	

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

For Band Edge Test		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

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6dB Spectrum Bandwidth		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

Maximum Conducted Output Power		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

Power Spectral Density		
Final Test Mode	Description	
Mode 1	TX B MODE CHANNEL 01/06/11	
Mode 2	TX G MODE CHANNEL 01/06/11	
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11	
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09	

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)

802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (13Mbps) 802.11n HT40 mode : BPSK (27Mbps)

For radiated emission tests, the highest output powers were set for final test.

- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

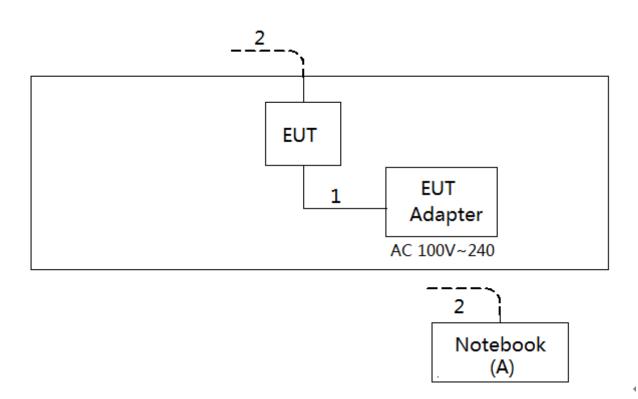
Test software version	MTool_2.0.1.1		
Frequency (MHz)	2412	2437	2462
802.11b	60	62	64
802.11g	60	60	60
802.11n (20MHz)	46	46	46
Frequency	2422	2437	2452
802.11n (40MHz)	41	50	50

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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.
Α	Notebook	Lenovo	INSPIRON 1420	DOC	JX193A01SDC2

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	AC Cable
2	NO	NO	10m	RJ-45 Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Fraguency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average□	
0.15 -0.50	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	60	50	

Note

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

4.1.2 TEST PROCEDURE

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

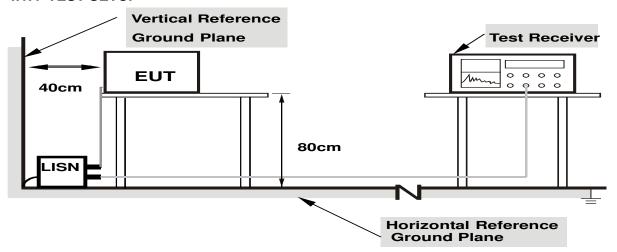
No deviation

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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 placed on the test table and programmed in normal function.

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.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)		
Frequency (MHZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

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Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	1MHz / 3MHz for Peak,	
(Emission in restricted band)	1MHz / 1/T for Average	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. (above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 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

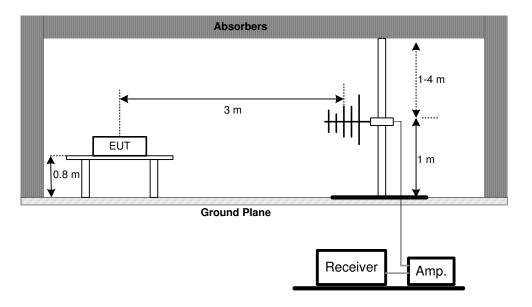
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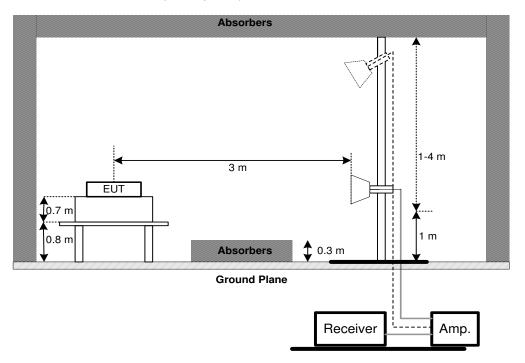


4.2.4 TEST SETUP

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



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

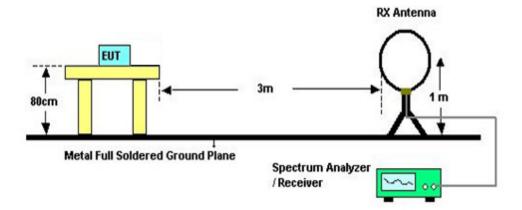


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(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9KHZ 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 (30MHZ 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.

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247), Subpart C				
Section	Test Item	Frequency Range (MHz)	Result	
15.247(a)(2) Bandwidth 2400-2483.5 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 Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	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. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance and FCC KDB 662911 D01 Multiple Transmitter Output.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 OWEL WICKE

6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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.

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

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 Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	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 Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018		
2	LISN	EMCO	3816/2	52765	Mar. 26, 2018		
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 26, 2018		
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018		
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A		
6	Cable		RG223	12m	Oct. 20, 2017		

	Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018	
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017	
3	Receiver	Agilent	N9038A	MY5213003 9	Sep. 04, 2017	
4	Cable	emci	LMR-400(30MH z-1GHz)(8m+5m)	N/A	Jun. 26, 2018	
5	Controller	CT	SC100	N/A	N/A	
6	Controller	MF	MF-7802	MF78020841 6	N/A	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
8	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018	
9	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018	
10	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018	
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018	
12	Antenna	EM	EM-6876-1	230	Jul. 07, 2018	
13	Controller	MF	MF-7802	MF78020841 6	N/A	
14	Cable	emci	EMC104-SM-S M-12000(12m)	N/A	Jun. 26, 2018	
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

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	6dB Bandwidth Measurement					
Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until						
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017	

	Peak Output Power Measurement										
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until						
1	EMI Test Receiver	R&S	ESCI	100895	Mar. 26, 2018						
2	Antenna	EM	EM-6876-1	230	Jul. 07, 2018						

	Antenna Conducted Spurious Emission Measurement									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017					

	Power Spectral Density Measurement								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017				

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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10. EUT TEST PHOTO







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Radiated Measurement Photos

9KHz to 30MHz





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Radiated Measurement Photos







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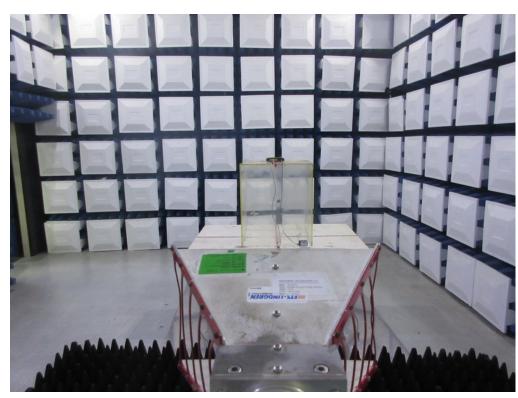




Radiated Measurement Photos

Above 1000MHz





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	160
ATTACHMENT A - CONDUCTED EMISSION	

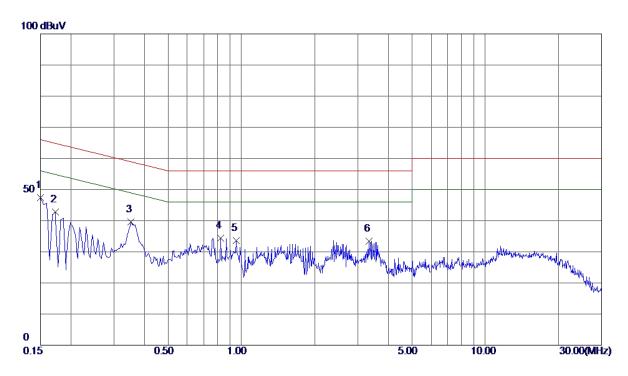
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Test Mode: TX Mode

Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1500	37. 52	9. 79	47.31	66.00	-18. 69	Peak	
2	0. 1725	33. 11	9. 78	42.89	64.84	-21. 95	Peak	
3	0. 3525	29. 90	9. 79	39. 69	58. 90	-19. 21	Peak	
4	0.8205	24. 59	9.83	34.42	56. 00	-21. 58	Peak	
5	0.9510	23.74	9.84	33. 58	56.00	-22.42	Peak	
6	3. 3405	23. 47	10.01	33. 48	56.00	-22. 52	Peak	

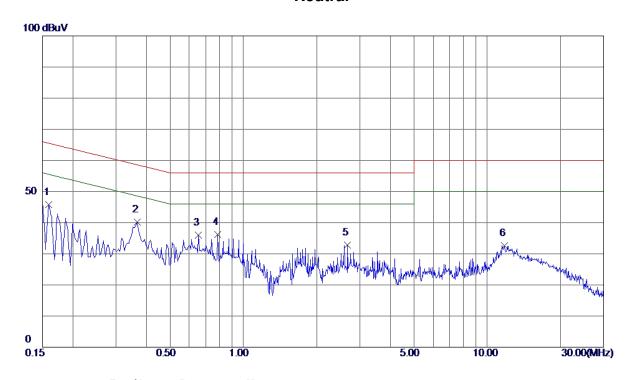
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Test Mode : TX Mode

Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1590	36. 09	9. 68	45.77	65. 52	-19.75	Peak	
2 *	0.3660	30. 58	9. 69	40. 27	58. 59	-18. 32	Peak	
3	0.6540	26. 30	9. 72	36. 02	56.00	-19. 98	Peak	
4	0.7845	26. 44	9.72	36. 16	56.00	-19.84	Peak	
5	2.6700	22.84	9. 88	32.72	56.00	-23. 28	Peak	
6	11.7690	22. 28	10.40	32.68	60.00	-27. 32	Peak	

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

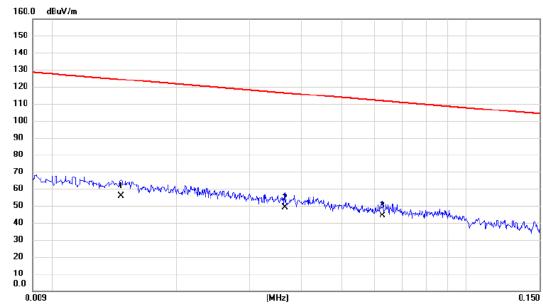
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Test Mode: TX B MODE CHANNEL 01

Ant 0°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0147	35.68	20.31	55.99	124.26	-68.27	AVG	
2	0.0365	29.87	19.13	49.00	116.36	-67.36	AVG	
3 *	0.0627	25.89	18.48	44.37	111.66	-67.29	AVG	

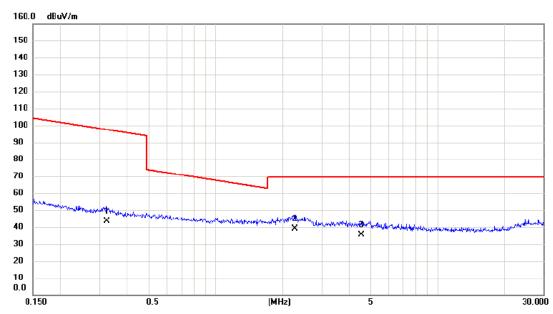
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Test Mode: TX B MODE CHANNEL 01

Ant 0°



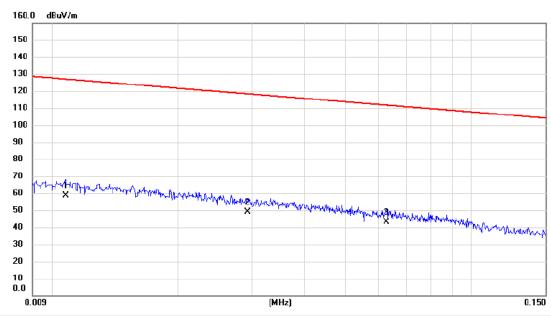
No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3217	26.89	16.60	43.49	97.46	-53.97	AVG	
2 *	2.2726	23.57	15.44	39.01	69.54	-30.53	QP	
3	4.5254	20.64	14.64	35.28	69.54	-34.26	QP	

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Ant 90°



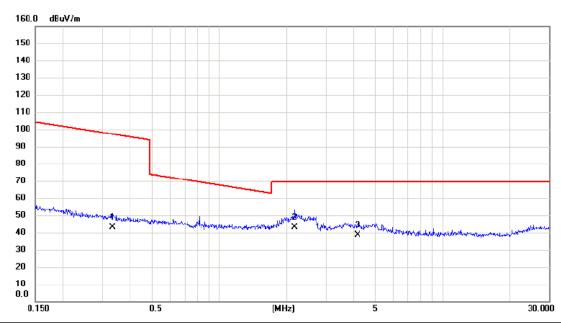
No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0108	37.68	20.82	58.50	126.94	-68.44	AVG	
2	0.0293	29.84	19.34	49.18	118.27	-69.09	AVG	
3	0.0627	24.61	18.48	43.09	111.66	-68.57	AVG	

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Ant 90°



No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3321	26.57	16.59	43.16	97.18	-54.02	AVG	
2 *	2.1783	27.64	15.46	43.10	69.54	-26.44	QP	
3	4.1796	23.94	14.84	38.78	69.54	-30.76	QP	

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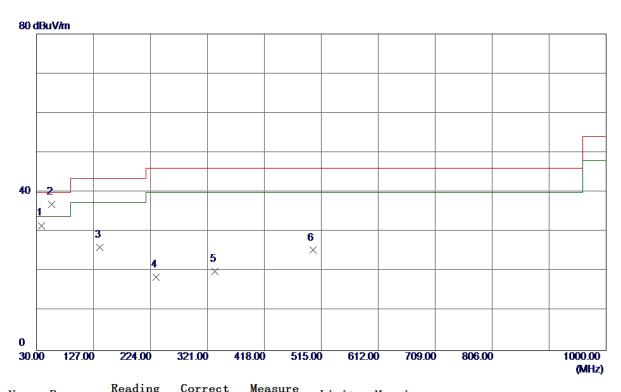
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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Vertical



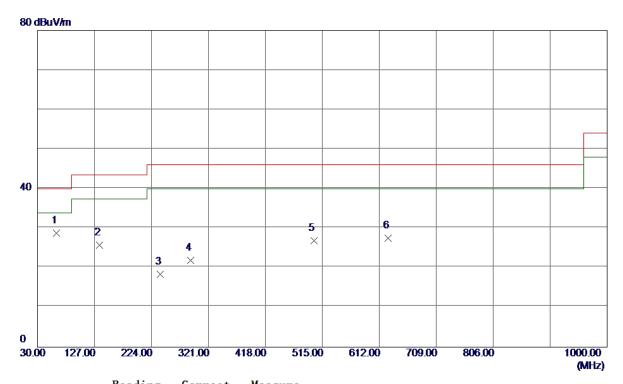
No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	38.7300	44.49	-12.89	31. 60	40.00	-8.40	Peak	
2 *	56. 1900	49.70	-12.71	36. 99	40.00	-3.01	QP	
3	137.6700	39. 38	-13. 31	26. 07	43.50	-17.43	Peak	
4	233.7000	32. 03	-13. 51	18. 52	46.00	-27.48	Peak	
5	333. 6099	31.43	-11.47	19. 96	46.00	-26.04	Peak	
6	500. 4500	32. 19	-6.83	25. 36	46.00	-20.64	Peak	

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Horizontal



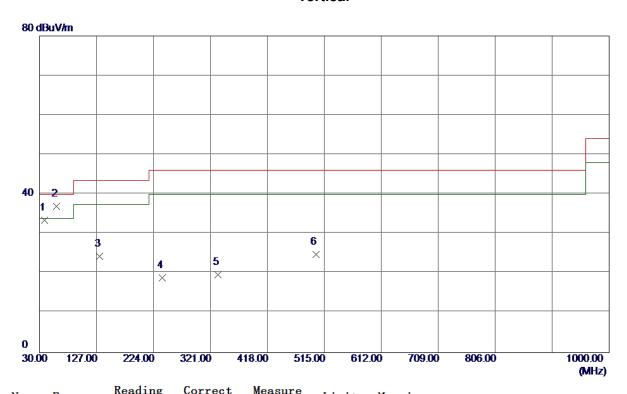
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	62.0100	42. 15	-13.42	28. 73	40.00	-11. 27	Peak	
2	135. 7300	39. 18	-13.40	25. 78	43.50	-17.72	Peak	
3	238. 5500	32. 01	-13.63	18. 38	46.00	-27.62	Peak	
4	290. 9300	35. 48	-13. 50	21. 98	46.00	-24.02	Peak	
5	500. 4500	33. 67	-6. 83	26. 84	46.00	-19. 16	Peak	
6	627. 5200	31. 14	-3. 56	27. 58	46.00	-18.42	Peak	

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Vertical



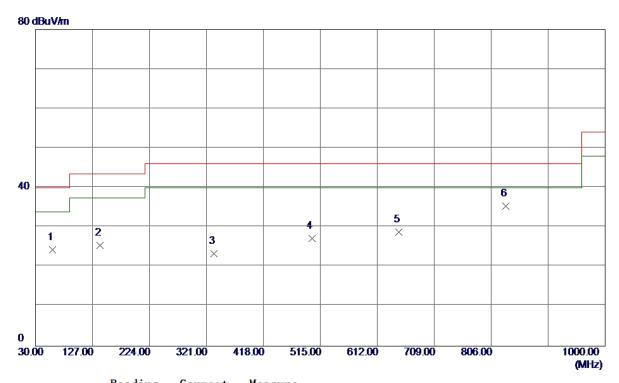
No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	38.7300	46. 26	-12.89	33. 37	40.00	-6. 63	Peak	
2 *	59. 1000	50.00	−12. 98	37.02	40.00	-2. 98	QP	
3	132.8200	37. 78	-13. 53	24. 25	43.50	-19. 25	Peak	
4	238. 5500	32. 57	-13.63	18. 94	46.00	-27.06	Peak	
5	333. 6099	31. 19	-11.47	19.72	46.00	-26. 28	Peak	
6	500. 4500	31. 58	-6. 83	24.75	46.00	-21. 25	Peak	

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Horizontal



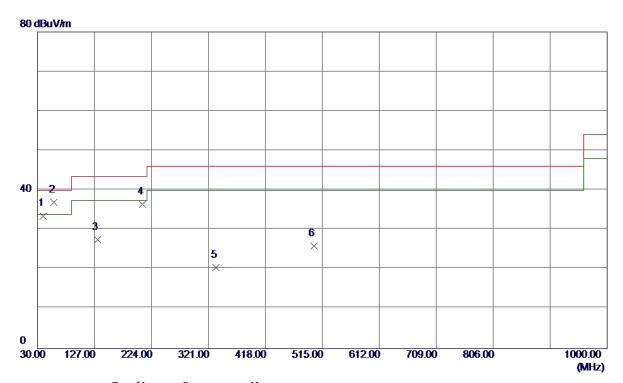
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	59. 1000	37. 31	-12. 98	24. 33	40.00	-15. 67	Peak	
2	139.6100	38.64	-13. 22	25. 42	43.50	−18. 08	Peak	
3	333. 6099	34.85	-11.47	23. 38	46.00	-22.62	Peak	
4	500. 4500	33. 97	-6. 83	27. 14	46.00	-18.86	Peak	
5	648.8600	31.88	-3. 13	28.75	46.00	-17. 25	Peak	
6 *	831. 2199	33. 63	1.72	35. 35	46.00	-10.65	Peak	

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Vertical



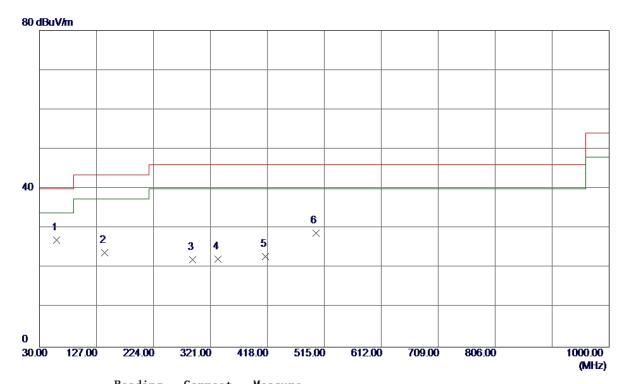
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	39.7000	46. 25	-12.73	33. 52	40.00	-6. 48	Peak	
2 *	58. 1300	49.81	-12.89	36. 92	40.00	-3.08	QP	
3	131.8500	41.09	-13. 57	27. 52	43.50	-15. 98	Peak	
4	208. 4800	49.67	-13. 17	36. 50	43.50	-7.00	Peak	
5	333. 6099	31.91	-11.47	20.44	46.00	-25.56	Peak	
6	500. 4500	32. 72	-6. 83	25. 89	46.00	-20. 11	Peak	

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Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	59. 1000	40.00	-12. 98	27.02	40.00	-12.98	Peak	
2	140. 5800	37.07	-13. 17	23. 90	43.50	-19.60	Peak	
3	290. 9300	35. 54	-13. 50	22. 04	46.00	-23.96	Peak	
4	333. 6099	33.65	-11.47	22. 18	46.00	-23.82	Peak	
5	415. 0900	32.49	-9.62	22. 87	46.00	-23. 13	Peak	
6	500. 4500	35. 60	-6.83	28. 77	46.00	-17. 23	Peak	

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ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

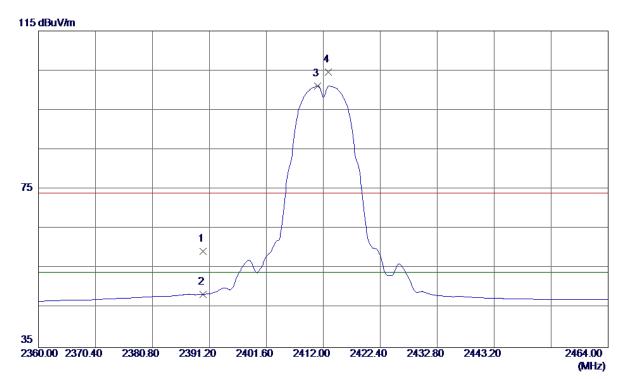
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Orthogonal Axis:	X
Test Mode :	TX B MODE 2412MHz

Vertical



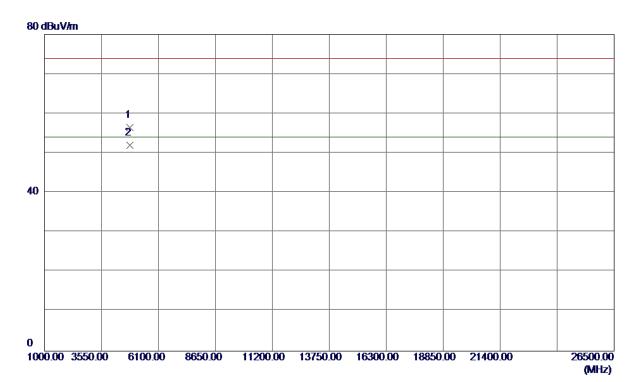
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26. 32	33.06	59. 38	74.00	-14.62	Peak	
2	2390.0000	15. 38	33.06	48.44	54.00	-5. 56	AVG	
3 *	2410.9600	68.00	33. 14	101. 14	54.00	47.14	AVG	No Limit
4	2412. 9360	71. 49	33. 14	104.63	74.00	30.63	Peak	No Limit

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Vertical



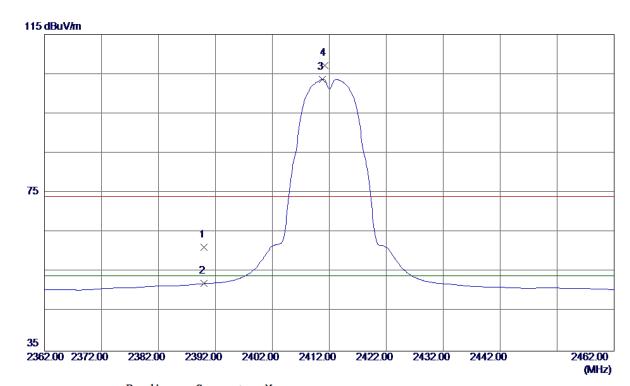
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9680	50. 13	6. 32	56.45	74.00	-17. 55	Peak	
2 *	4823.9740	45. 69	6. 32	52. 01	54.00	-1.99	AVG	

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Horizontal



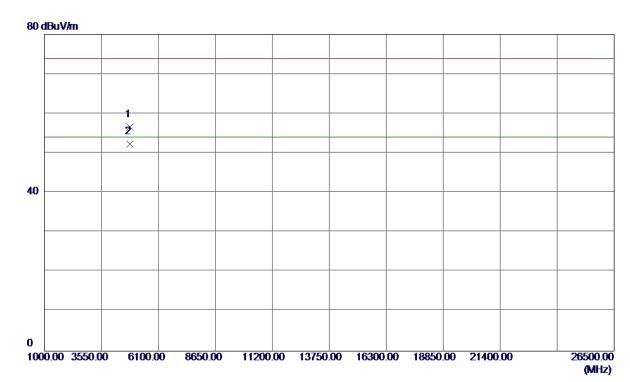
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	28. 15	33.06	61.21	74.00	-12.79	Peak	
2	2390.0000	18. 99	33.06	52.05	54.00	-1.95	AVG	
3 *	2410.8000	70. 50	33. 13	103.63	54.00	49.63	AVG	No Limit
4	2411. 2000	74.00	33. 14	107. 14	74.00	33. 14	Peak	No Limit

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Horizontal



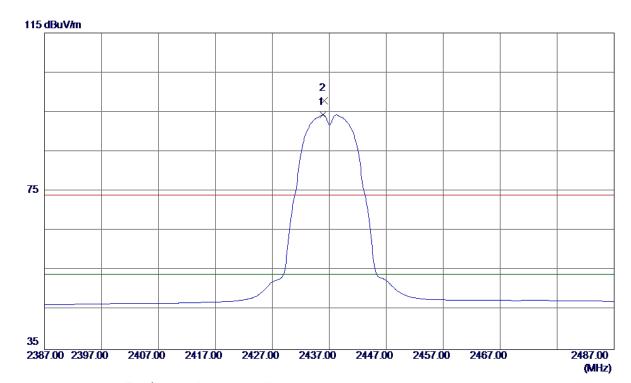
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9660	50. 26	6. 32	56. 58	74.00	-17.42	Peak	
2 *	4823.9700	46. 07	6. 32	52. 39	54.00	-1. 61	AVG	

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Vertical



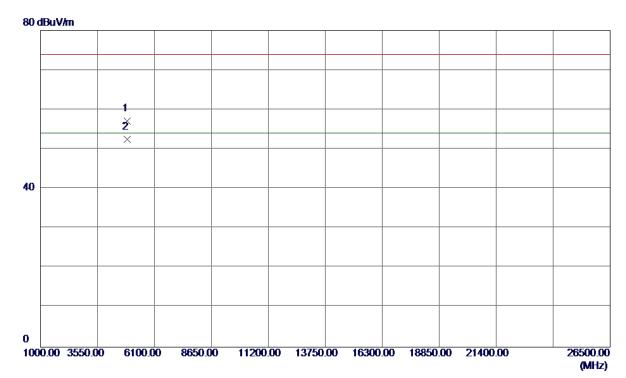
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435.9000	61. 10	33. 23	94. 33	54.00	40.33	AVG	No Limit
2	2436. 1000	64.64	33. 23	97.87	74.00	23.87	Peak	No Limit

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Vertical



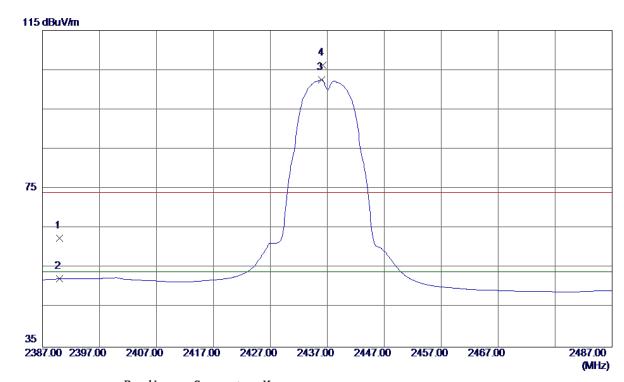
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9100	50.69	6. 44	57. 13	74.00	-16.87	Peak	
2 *	4873. 9840	46. 10	6. 44	52. 54	54.00	-1.46	AVG	

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Horizontal



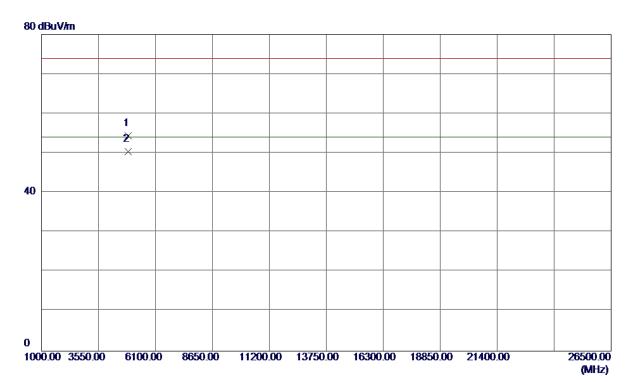
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	29.45	33.06	62. 51	74.00	-11.49	Peak	
2	2390.0000	19. 19	33.06	52. 25	54.00	-1.75	AVG	
3 *	2436.0000	69. 30	33. 23	102. 53	54.00	48. 53	AVG	No Limit
4	2436. 2000	72. 90	33. 23	106. 13	74.00	32. 13	Peak	No Limit

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9560	48. 04	6. 44	54.48	74.00	-19.52	Peak	
2 *	4874.0080	44.04	6. 44	50. 48	54.00	-3. 52	AVG	

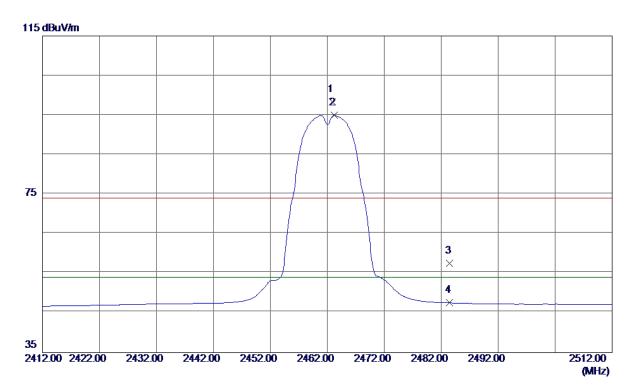
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Orthogonal Axis:	X
Test Mode :	TX B MODE 2462MHz

Vertical



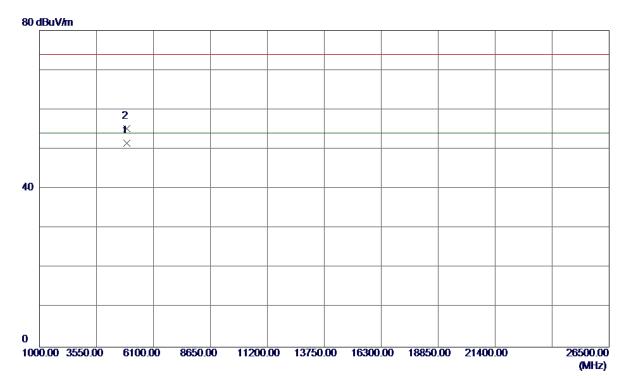
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2462. 9000	64.98	33. 33	98. 31	74.00	24. 31	Peak	No Limit
2 *	2463. 2000	61.64	33. 33	94. 97	54.00	40.97	AVG	No Limit
3	2483. 5000	24. 20	33. 41	57.61	74.00	-16. 39	Peak	
4	2483. 5000	14. 17	33.41	47.58	54.00	-6.42	AVG	

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Vertical



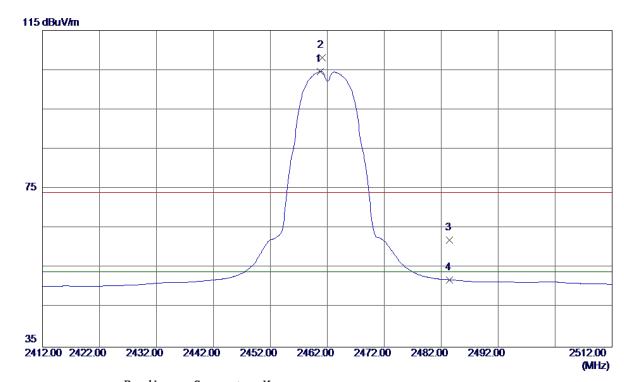
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923.8600	44.97	6. 57	51. 54	54.00	-2.46	AVG	
2	4923.8650	48.64	6. 57	55. 21	74.00	-18.79	Peak	

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Horizontal



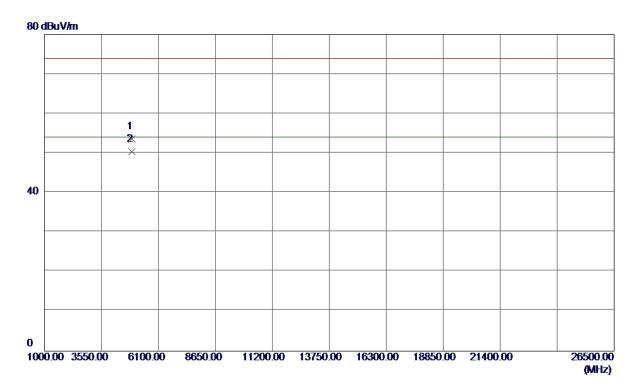
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2460.8000	71.34	33. 32	104.66	54.00	50.66	AVG	No Limit
2	2461.1000	74.72	33. 32	108. 04	74.00	34.04	Peak	No Limit
3	2483. 5000	28. 57	33.41	61.98	74.00	-12.02	Peak	
4	2483. 5000	18. 61	33. 41	52. 02	54.00	-1.98	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 9180	46.99	6. 57	53. 56	74.00	-20.44	Peak	
2 *	4923.9700	43.86	6. 57	50. 43	54.00	-3. 57	AVG	

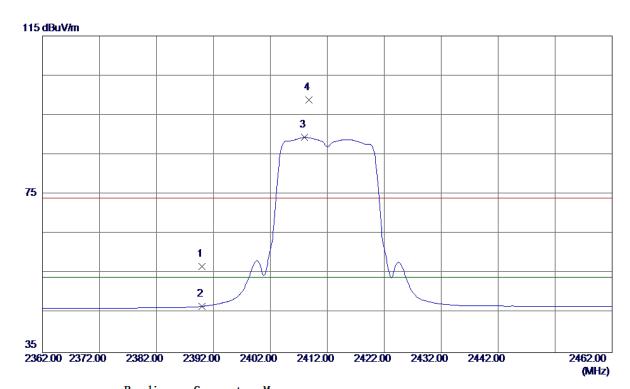
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Orthogonal Axis:	X
Test Mode :	TX G MODE 2412MHz

Vertical



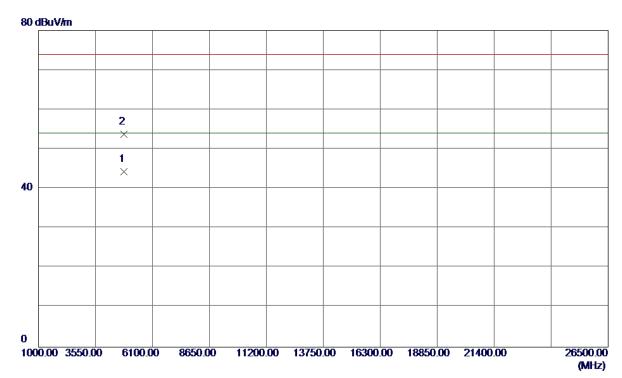
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	23. 69	33.06	56. 75	74.00	-17. 25	Peak	
2	2390.0000	13.62	33.06	46.68	54.00	-7. 32	AVG	
3 *	2408. 0000	56. 25	33. 12	89. 37	54.00	35. 37	AVG	No Limit
4	2408.8000	65. 69	33. 13	98. 82	74.00	24.82	Peak	No Limit

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Vertical



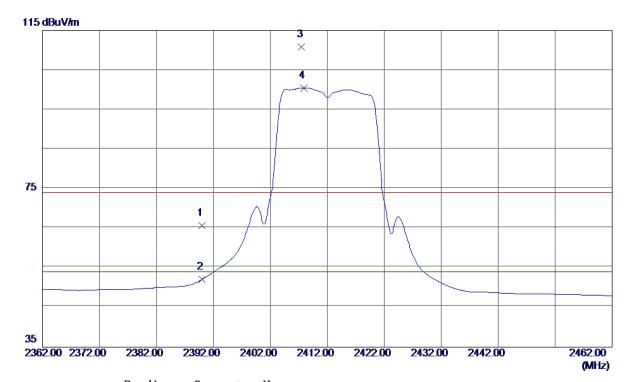
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824. 1400	38. 02	6. 32	44.34	54.00	-9.66	AVG	
2	4824.8000	47.51	6. 32	53. 83	74.00	-20. 17	Peak	

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Horizontal



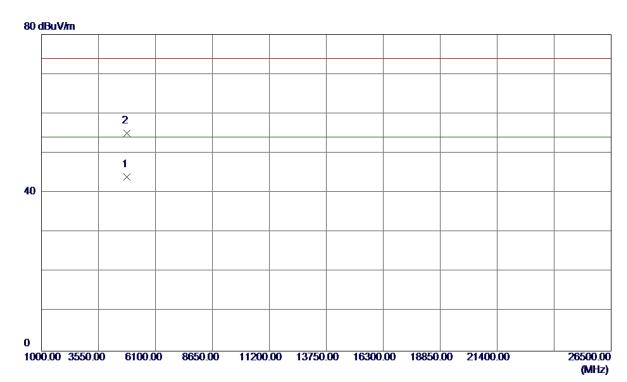
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	32.63	33.06	65. 69	74.00	-8. 31	Peak	
2	2390.0000	19. 03	33. 06	52. 09	54.00	-1.91	AVG	
3	2407.5000	77. 67	33. 12	110.79	74.00	36. 79	Peak	No Limit
4 *	2407.9000	67. 39	33. 12	100. 51	54.00	46. 51	AVG	No Limit

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Horizontal



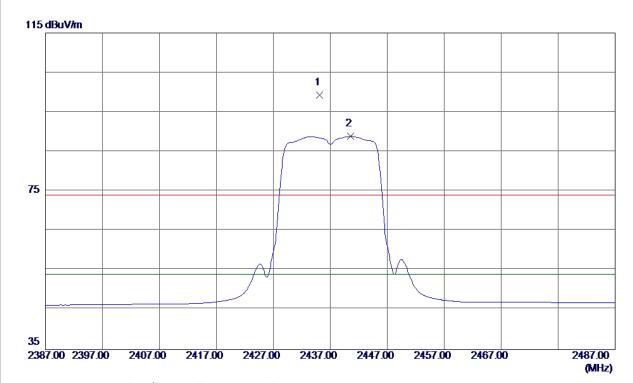
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4823.7599	37.61	6. 32	43.93	54.00	-10.07	AVG	
2	4821.1200	48.76	6. 31	55. 07	74.00	-18.93	Peak	

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Vertical



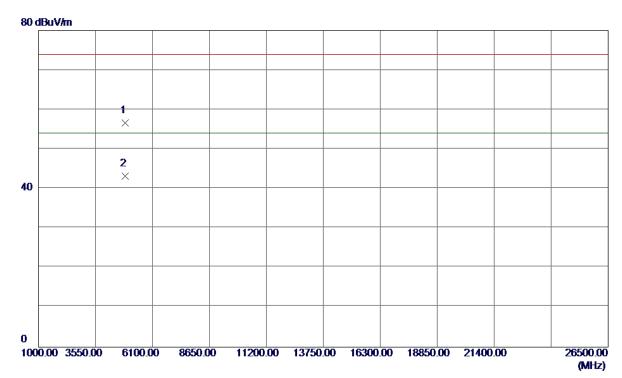
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435. 1000	66. 11	33. 23	99. 34	74.00	25. 34	Peak	No Limit
2 *	2440. 6000	55. 61	33. 25	88. 86	54.00	34.86	AVG	No Limit

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Vertical



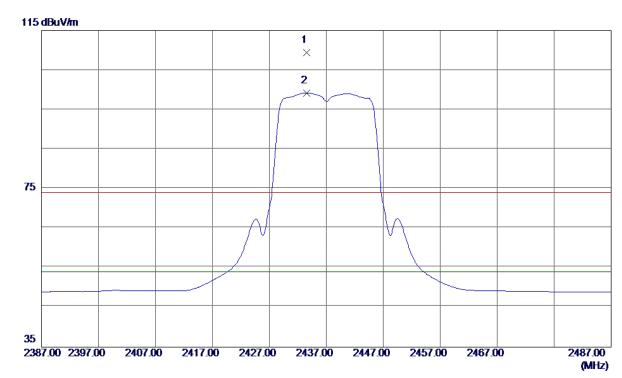
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0000	50. 27	6. 44	56.71	74.00	-17. 29	Peak	
2 *	4874.0000	36.77	6. 44	43. 21	54.00	-10.79	AVG	

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Horizontal



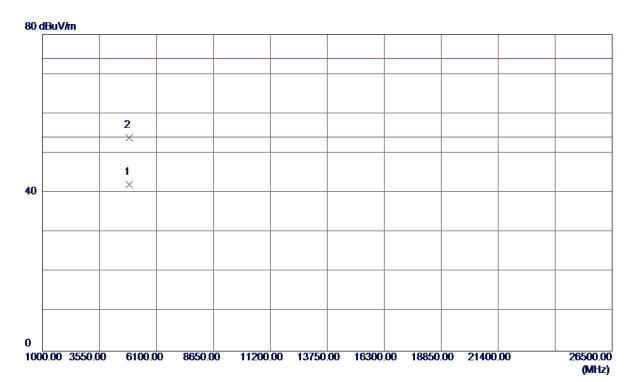
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2433. 5000	76. 20	33. 22	109.42	74.00	35. 42	Peak	No Limit
2 *	2433. 5000	66. 01	33. 22	99. 23	54.00	45. 23	AVG	No Limit

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Horizontal



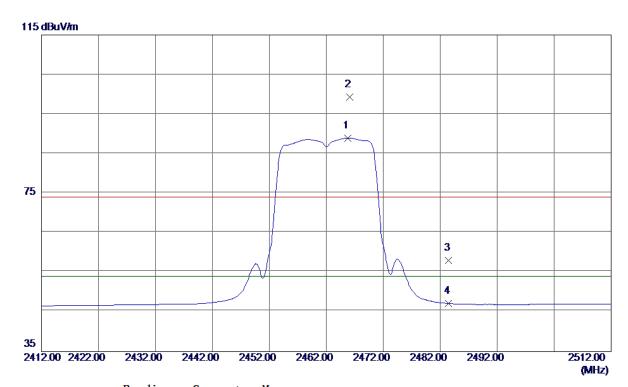
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4873.8500	35. 68	6. 44	42. 12	54.00	-11.88	AVG	
2	4875. 9800	47. 50	6. 45	53. 95	74.00	-20.05	Peak	

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Vertical



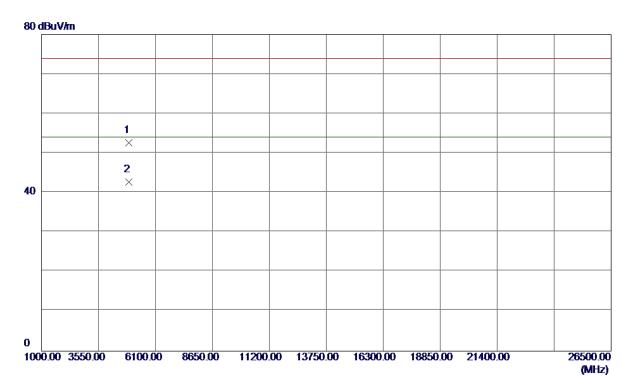
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2465.8000	55. 61	33. 34	88. 95	54.00	34.95	AVG	No Limit
2	2466. 1000	65. 99	33. 34	99. 33	74.00	25. 33	Peak	No Limit
3	2483. 5000	24.70	33.41	58. 11	74.00	-15.89	Peak	
4	2483. 5000	13. 75	33. 41	47. 16	54.00	-6.84	AVG	

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Vertical



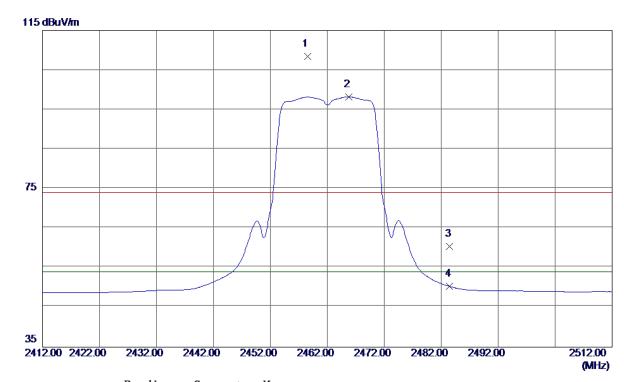
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	46.09	6. 57	52.66	74.00	-21. 34	Peak	
2 *	4924.0000	36. 13	6. 57	42.70	54.00	-11. 30	AVG	

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Horizontal



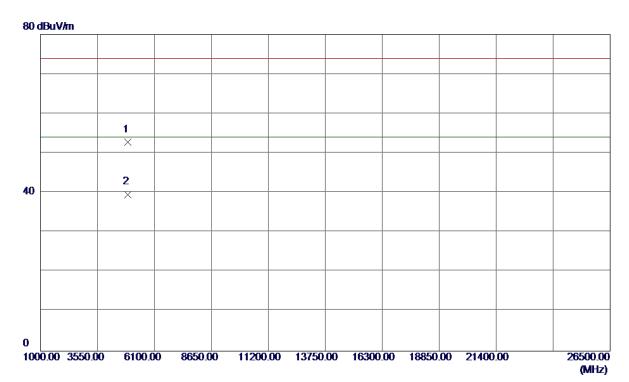
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2458.5000	75. 18	33. 31	108.49	74.00	34.49	Peak	No Limit
2 *	2465.8000	64.86	33. 34	98. 20	54.00	44.20	AVG	No Limit
3	2483. 5000	27.05	33.41	60.46	74.00	-13.54	Peak	
4	2483. 5000	16. 92	33. 41	50. 33	54.00	-3. 67	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 2200	46. 29	6. 57	52.86	74.00	-21.14	Peak	
2 *	4923. 2200	33. 03	6. 57	39. 60	54.00	-14.40	AVG	

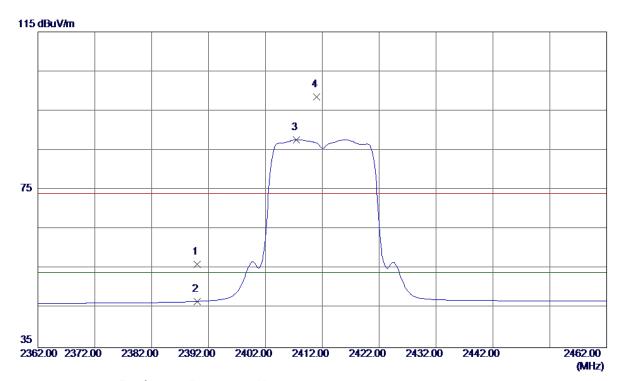
Report No.: BTL-FCCP-1-1707C123 Page 70 of 159





Orthogonal Axis:	X
Test Mode :	TX N-20M MODE 2412MHz

Vertical



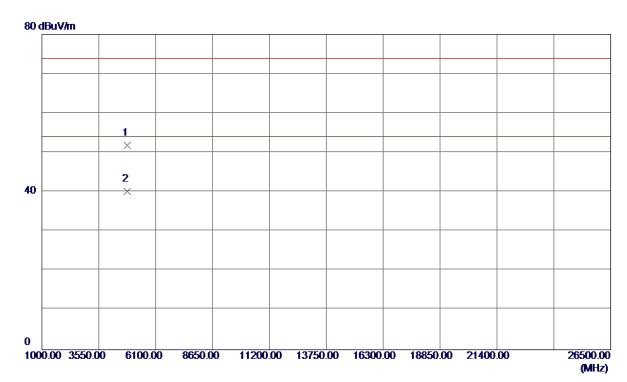
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23.00	33.06	56.06	74.00	-17.94	Peak	
2	2390.0000	13. 67	33. 06	46.73	54.00	-7. 27	AVG	
3 *	2407.4000	54. 57	33. 12	87. 69	54.00	33. 69	AVG	No Limit
4	2411.0000	65. 41	33. 14	98. 55	74.00	24. 55	Peak	No Limit

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Vertical



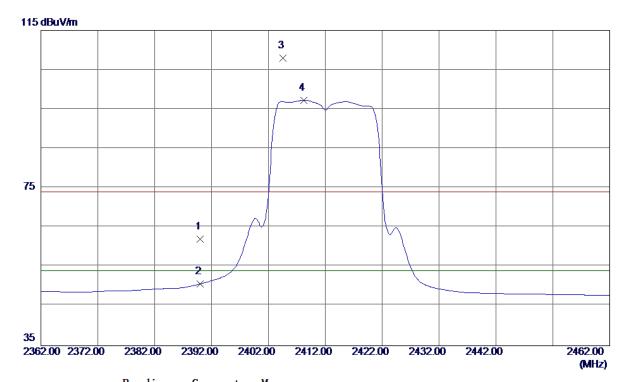
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4821.4600	45.46	6. 31	51.77	74.00	-22.23	Peak	
2 *	4823.8400	33.84	6. 32	40. 16	54.00	-13.84	AVG	

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Horizontal



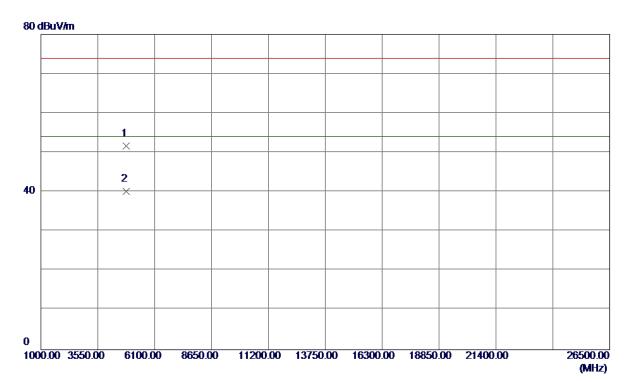
MHz	dBuV/m	dB	1D 17/				
		u_	dBuV/m	dBuV/m	dB	Detector	Comment
2390.0000	28. 94	33. 06	62.00	74.00	-12.00	Peak	
2390.0000	17.60	33. 06	50.66	54.00	-3.34	AVG	
2404.6000	74.83	33. 11	107. 94	74.00	33.94	Peak	No Limit
2408. 2000	64. 19	33. 12	97. 31	54.00	43. 31	AVG	No Limit
	2390. 0000 2404. 6000	2390. 0000 28. 94 2390. 0000 17. 60 2404. 6000 74. 83 2408. 2000 64. 19	2390. 0000 17. 60 33. 06 2404. 6000 74. 83 33. 11	2390. 0000 17. 60 33. 06 50. 66 2404. 6000 74. 83 33. 11 107. 94	2390. 0000 17. 60 33. 06 50. 66 54. 00 2404. 6000 74. 83 33. 11 107. 94 74. 00	2390. 0000 17. 60 33. 06 50. 66 54. 00 -3. 34 2404. 6000 74. 83 33. 11 107. 94 74. 00 33. 94	2390. 0000 17. 60 33. 06 50. 66 54. 00 -3. 34 AVG 2404. 6000 74. 83 33. 11 107. 94 74. 00 33. 94 Peak

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4822.9000	45. 35	6. 31	51.66	74.00	-22. 34	Peak	
2 *	4824. 2000	33. 82	6. 32	40. 14	54.00	-13.86	AVG	

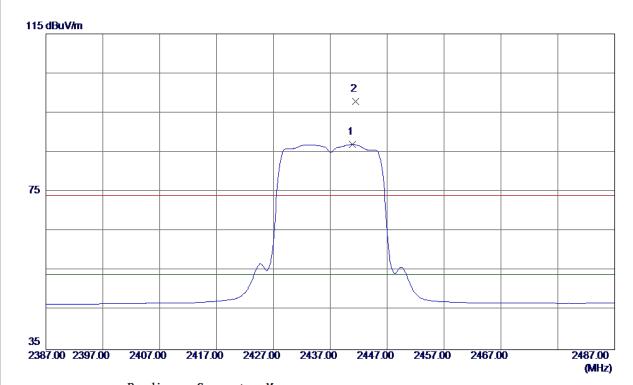
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Orthogonal Axis:	X
Test Mode :	TX N-20M MODE 2437MHz

Vertical



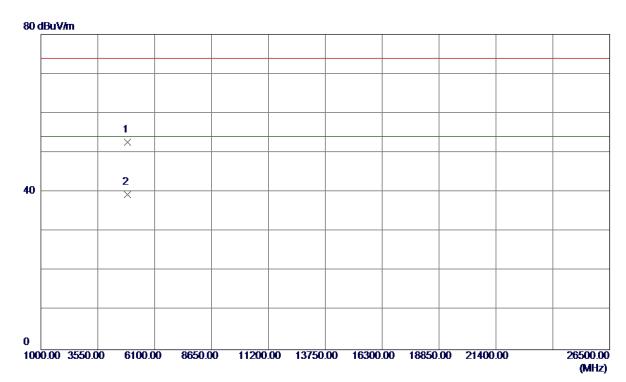
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2440. 9000	53. 75	33. 25	87.00	54.00	33.00	AVG	No Limit
2	2441. 4000	64.71	33. 25	97. 96	74.00	23.96	Peak	No Limit

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Vertical



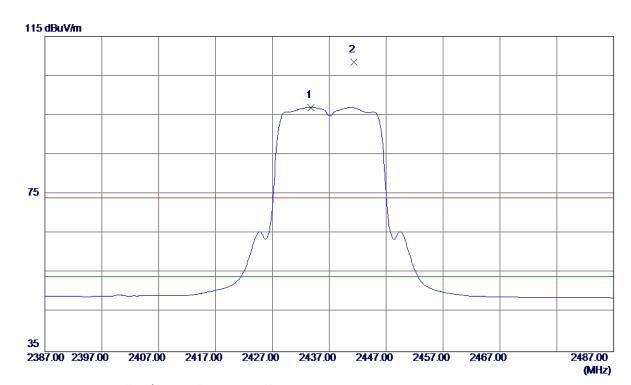
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0000	46. 27	6. 44	52.71	74.00	-21. 29	Peak	
2 *	4874.0000	32. 89	6. 44	39. 33	54.00	-14.67	AVG	

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Horizontal



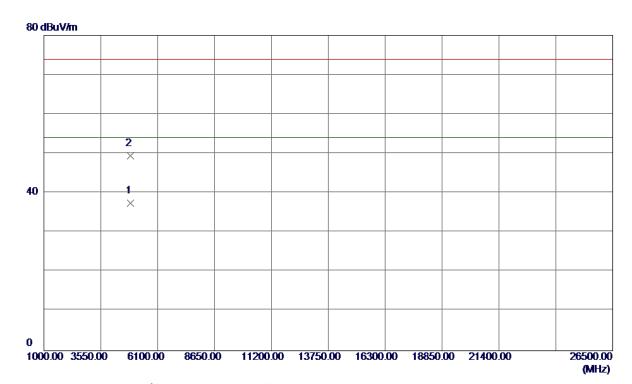
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2433.8000	63.74	33. 22	96. 96	54.00	42.96	AVG	No Limit
2	2441. 3000	75. 16	33. 25	108.41	74.00	34.41	Peak	No Limit

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.3500	31. 03	6. 44	37.47	54.00	-16. 53	AVG	
2	4875.7500	42.95	6.45	49.40	74.00	-24.60	Peak	

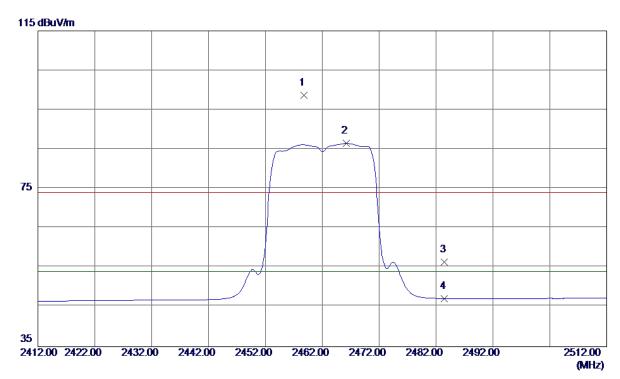
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Orthogonal Axis:	X
Test Mode:	TX N-20M MODE 2462MHz

Vertical



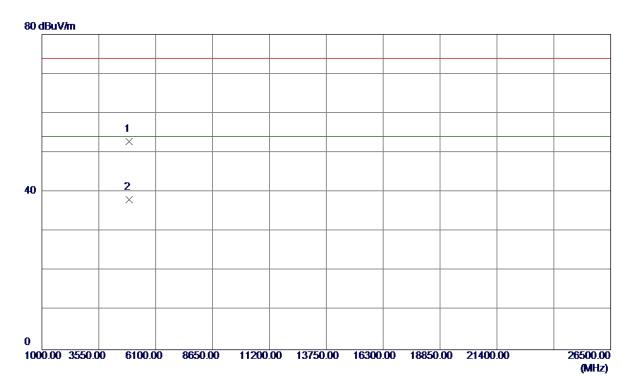
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2458.8000	65. 34	33. 31	98. 65	74.00	24.65	Peak	No Limit
2 *	2466. 2000	53. 13	33. 34	86. 47	54.00	32.47	AVG	No Limit
3	2483. 5000	23. 07	33. 41	56. 48	74.00	-17.52	Peak	
4	2483. 5000	13. 78	33. 41	47. 19	54.00	-6.81	AVG	

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Vertical



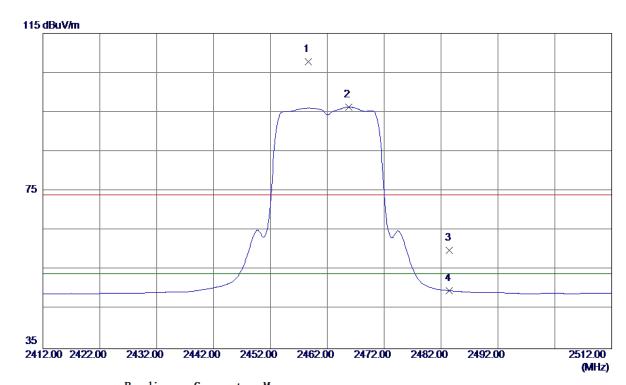
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	46. 21	6. 57	52. 78	74.00	-21. 22	Peak	
2 *	4924.0000	31. 58	6. 57	38. 15	54.00	-15.85	AVG	

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Horizontal



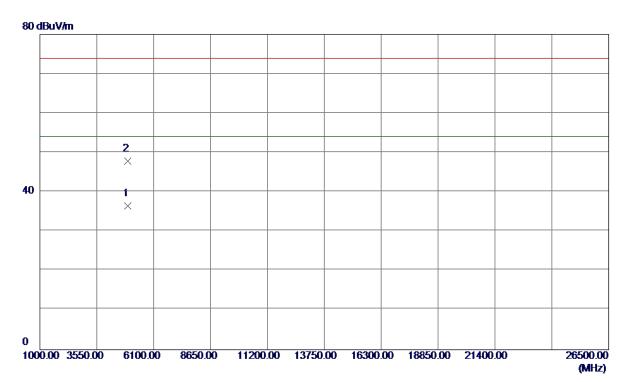
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2458.7000	74. 53	33. 31	107.84	74.00	33.84	Peak	No Limit
2 *	2465.8000	62. 98	33. 34	96. 32	54.00	42. 32	AVG	No Limit
3	2483. 5000	26. 48	33.41	59.89	74.00	-14. 11	Peak	
4	2483. 5000	16. 31	33. 41	49.72	54.00	-4. 28	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924.7500	29.87	6. 57	36. 44	54.00	-17.56	AVG	
2	4925. 0500	41. 22	6. 57	47.79	74.00	-26. 21	Peak	

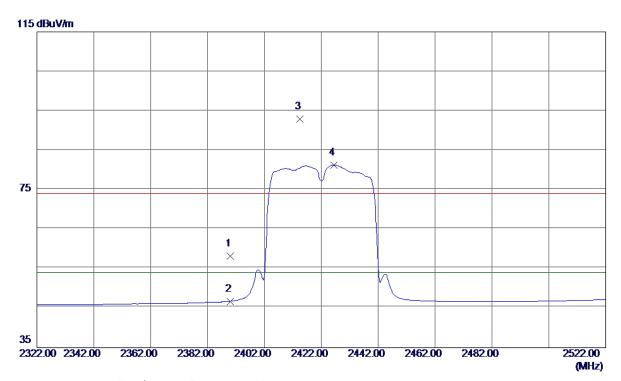
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Orthogonal Axis:	X
Test Mode :	TX N-40M MODE 2422MHz

Vertical



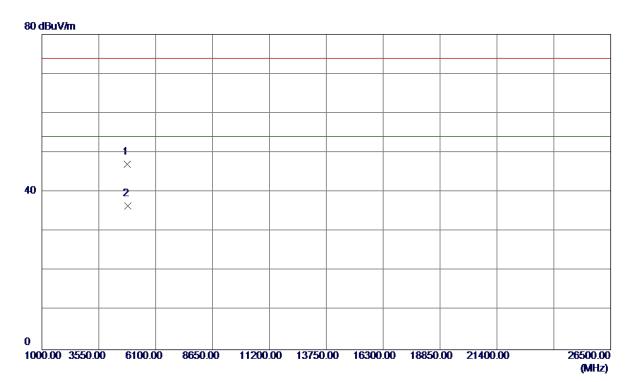
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25. 15	33.06	58. 21	74.00	-15. 79	Peak	
2	2390.0000	13.70	33. 06	46. 76	54.00	-7.24	AVG	
3	2414.4000	59.81	33. 15	92.96	74.00	18.96	Peak	No Limit
4 *	2426. 4000	48. 08	33. 19	81. 27	54.00	27. 27	AVG	No Limit

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Vertical



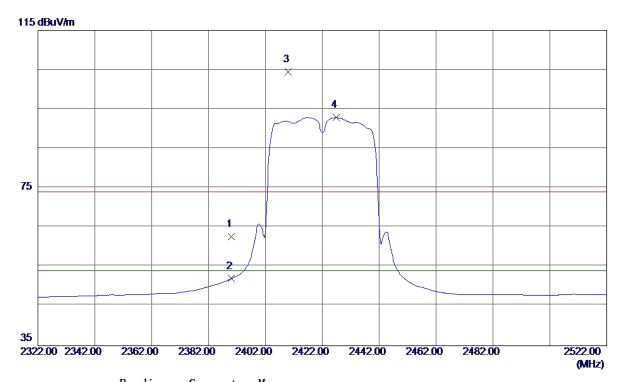
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4839. 1000	40.71	6. 35	47.06	74.00	-26.94	Peak	
2 *	4842. 0000	30. 07	6. 36	36. 43	54.00	-17.57	AVG	

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Horizontal



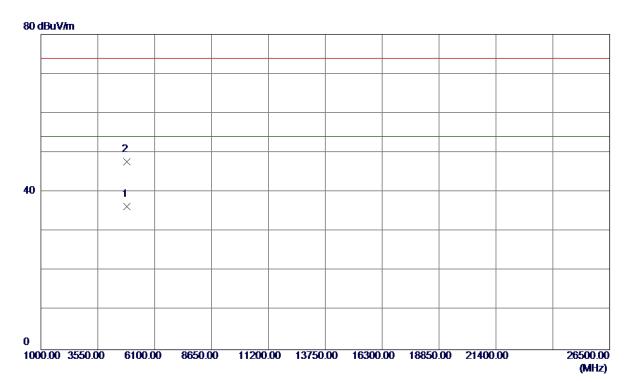
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	29.63	33. 06	62. 69	74.00	-11. 31	Peak	
2	2390.0000	18. 98	33.06	52. 04	54.00	-1.96	AVG	
3	2410.0000	71. 31	33. 13	104.44	74.00	30.44	Peak	No Limit
4 *	2426. 8000	59. 67	33. 19	92.86	54.00	38. 86	AVG	No Limit

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Horizontal



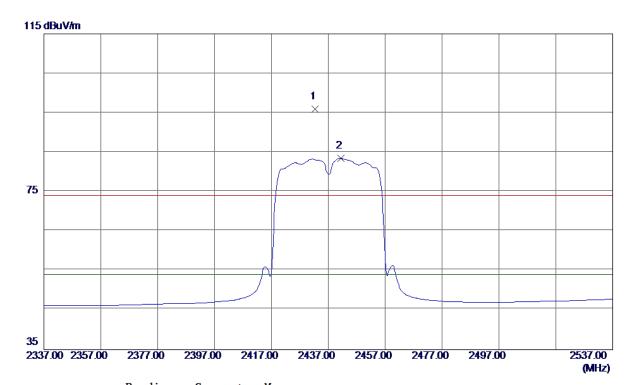
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4843.0500	29. 95	6. 36	36. 31	54.00	-17.69	AVG	
2	4842. 9500	41. 26	6. 36	47.62	74.00	-26. 38	Peak	

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Vertical



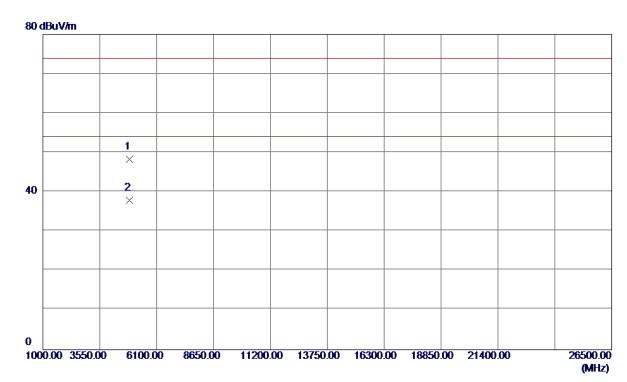
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2432. 4000	62.70	33. 22	95. 92	74.00	21.92	Peak	No Limit
2 *	2441. 4000	50. 24	33. 25	83. 49	54.00	29. 49	AVG	No Limit

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Vertical



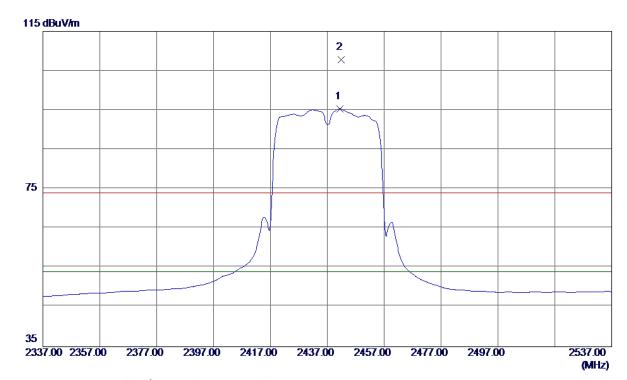
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4875. 1000	41.80	6.45	48. 25	74.00	-25. 75	Peak	
2 *	4875. 3000	31. 51	6. 45	37. 96	54.00	-16. 04	AVG	

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Horizontal



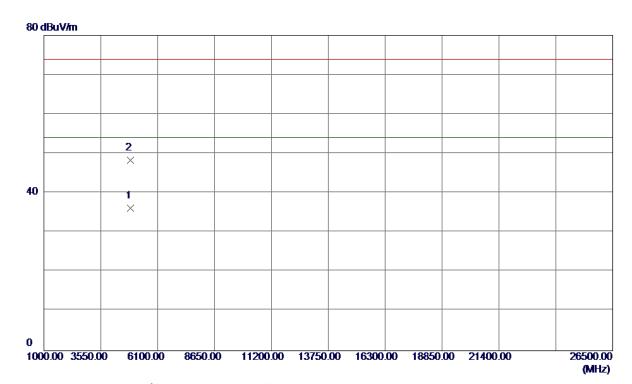
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2441.4000	62.06	33. 25	95. 31	54.00	41.31	AVG	No Limit
2	2441.8000	74. 57	33. 25	107.82	74.00	33.82	Peak	No Limit

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874.4000	29.70	6.44	36. 14	54.00	-17.86	AVG	
2	4874. 3000	41.85	6. 44	48. 29	74.00	-25. 71	Peak	

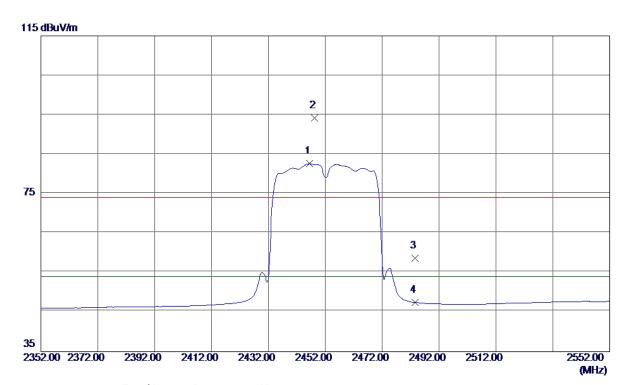
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Orthogonal Axis:	X
Test Mode :	TX N-40M MODE 2452MHz

Vertical



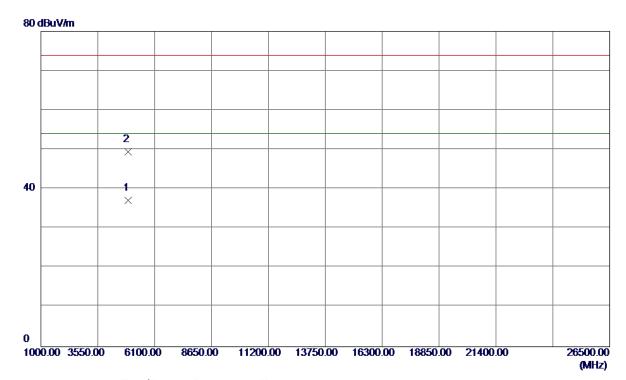
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2446. 4000	49. 34	33. 27	82.61	54.00	28.61	AVG	No Limit
2	2448. 2000	60. 92	33. 28	94. 20	74.00	20. 20	Peak	No Limit
3	2483. 5000	25. 32	33.41	58.73	74.00	-15. 27	Peak	
4	2483. 5000	14.06	33. 41	47.47	54.00	-6. 53	AVG	

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Vertical



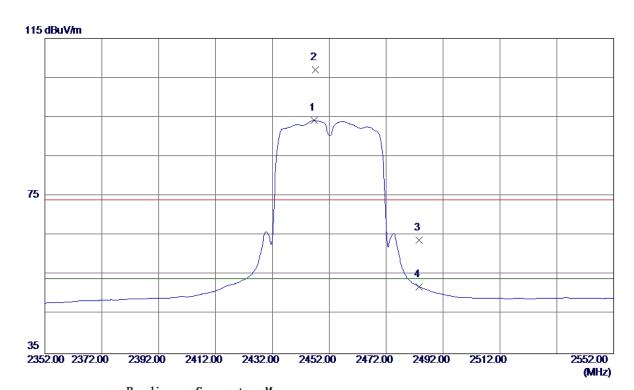
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4902.0000	30.63	6. 51	37. 14	54.00	-16.86	AVG	
2	4905. 2000	42. 96	6. 52	49. 48	74.00	-24. 52	Peak	

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Horizontal



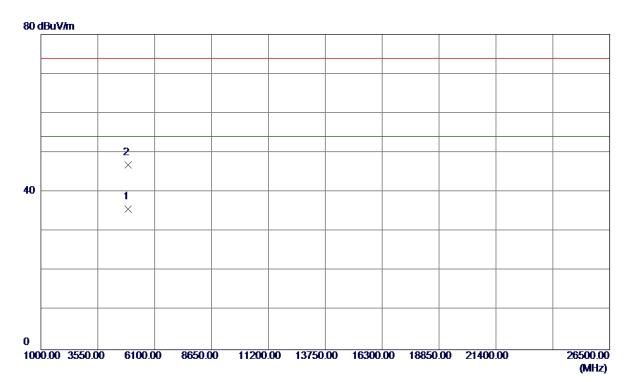
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2446.6000	60. 91	33. 27	94. 18	54.00	40. 18	AVG	No Limit
2	2447. 2000	73. 73	33. 27	107.00	74.00	33.00	Peak	No Limit
3	2483. 5000	30.41	33.41	63.82	74.00	-10. 18	Peak	
4	2483. 5000	18. 58	33. 41	51. 99	54.00	-2.01	AVG	

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Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4902.4500	29. 22	6. 51	35. 73	54.00	-18. 27	AVG	
2	4902.8000	40. 30	6. 51	46.81	74.00	-27. 19	Peak	

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ATTACHMENT E - BANDWIDTH							

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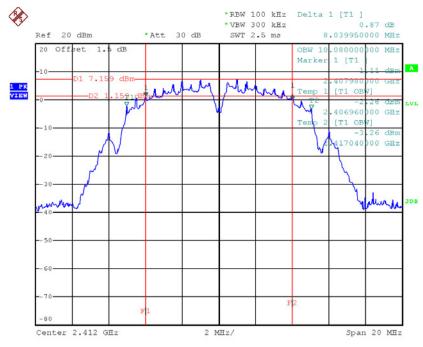




Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.04	10.08	500	Complies
2437	8.12	10.08	500	Complies
2462	8.56	10.08	500	Complies

TX CH01



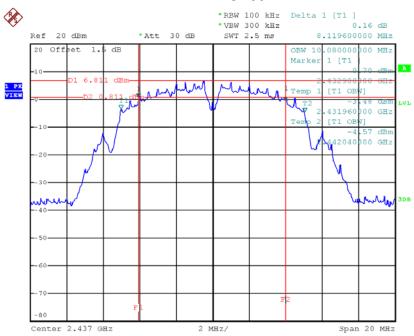
Date: 1.JAN.2003 09:05:43

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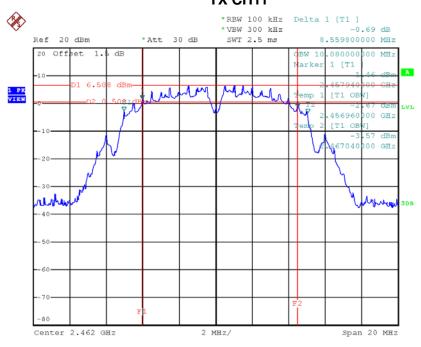






Date: 1.JAN.2003 09:17:30

TX CH11



Date: 1.JAN.2003 09:19:02

Report No.: BTL-FCCP-1-1707C123

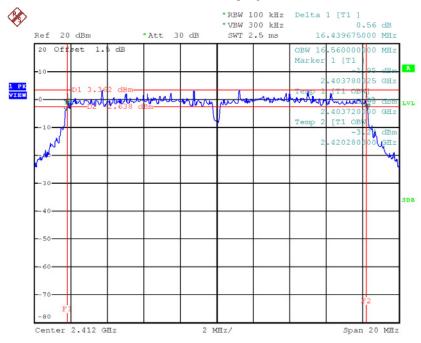




Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.44	16.56	500	Complies
2437	16.44	16.56	500	Complies
2462	16.43	16.56	500	Complies

TX CH01

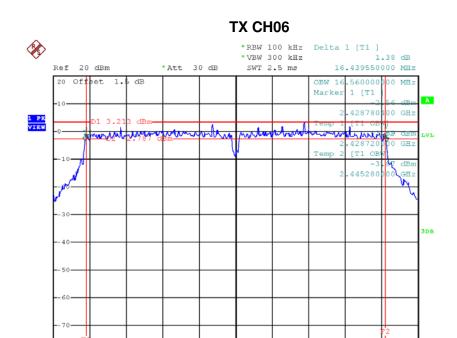


Date: 1.JAN.2003 09:20:23

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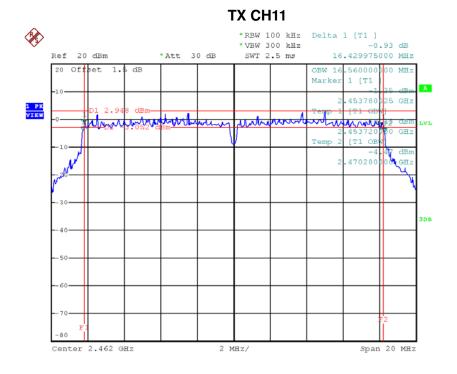


2 MHz/

Span 20 MHz

Date: 1.JAN.2003 09:21:34

Center 2.437 GHz



Date: 1.JAN.2003 09:24:49

Report No.: BTL-FCCP-1-1707C123

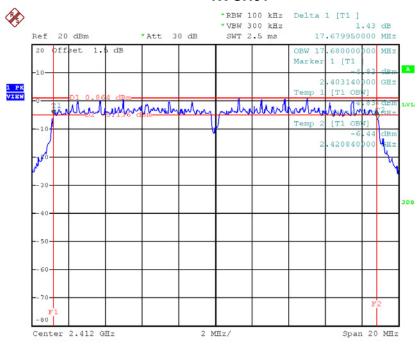




Test Mode: TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.68	17.68	500	Complies
2437	17.62	17.68	500	Complies
2462	17.68	17.68	500	Complies

TX CH01

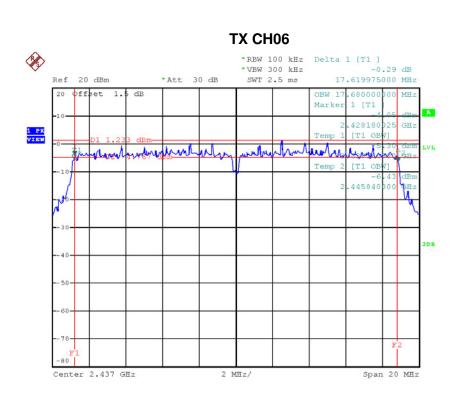


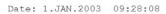
Date: 1.JAN.2003 09:27:01

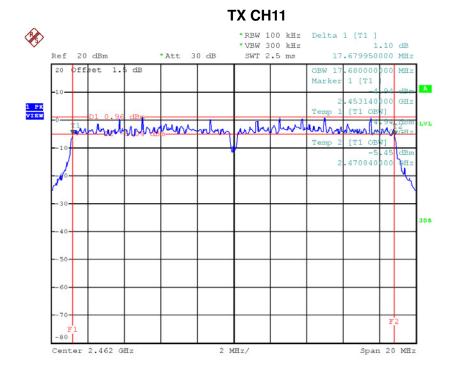
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Date: 1.JAN.2003 09:29:11

Report No.: BTL-FCCP-1-1707C123

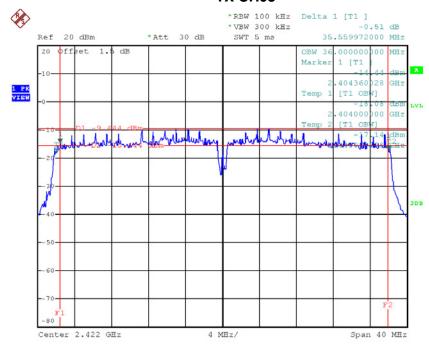




Test Mode: TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.56	36	500	Complies
2437	35.91	36	500	Complies
2452	35.44	36.08	500	Complies

TX CH03



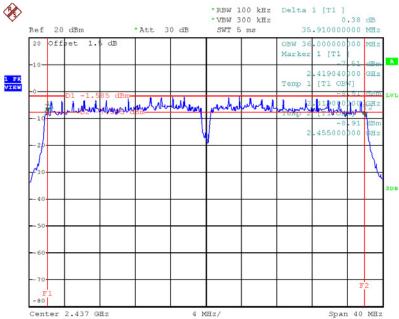
Date: 1.JAN.2003 09:47:09

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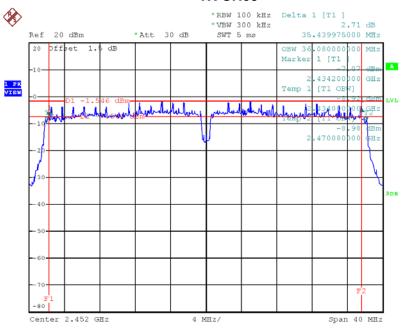






Date: 1.JAN.2003 09:37:15

TX CH09



Date: 1.JAN.2003 09:38:28

Report No.: BTL-FCCP-1-1707C123





ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

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Test Mode :TX B Mode_CH01/06/11									
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Pocult				
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result				
2412	21.42	0.14	30.00	1.00	Complies				
2437	21.62	0.15	30.00	1.00	Complies				
2462	21.56	0.14	30.00	1.00	Complies				

Test Mode :TX G Mode_CH01/06/11								
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Pocult			
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result			
2412	29.82	0.96	30.00	1.00	Complies			
2437	29.37	0.86	30.00	1.00	Complies			
2462	29.39	0.87	30.00	1.00	Complies			

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	Test Mode :TX N20 Mode_CH01/06/11_ANT 1									
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Dogult					
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result					
2412	25.05	0.32	30.00	1.00	Complies					
2437	24.87	0.31	30.00	1.00	Complies					
2462	24.55	0.29	30.00	1.00	Complies					

Test Mode :TX N20 Mode_CH01/06/11_ANT 2									
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Popult				
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result				
2412	27.69	0.59	30.00	1.00	Complies				
2437	27.24	0.53	30.00	1.00	Complies				
2462	27.53	0.57	30.00	1.00	Complies				

Test Mode :TX N20 Mode_CH01/06/11_Total									
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Dogult				
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result				
2412	29.58	0.91	30.00	1.00	Complies				
2437	29.23	0.84	30.00	1.00	Complies				
2462	29.30	0.85	30.00	1.00	Complies				

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