



Change

FCC Radio Test Report

FCC ID: RWO-RZ090270

This report concerns (check of	one): ⊠Original Grant
Equipment : Test Model : Series Model : Applicant :	1807C079 Notebook RZ09-0270 N/A Razer Inc. 201 3rd Street, Suite 900, San Francisco, CA 94103,USA
Date of Test : Issued Date :	Jul. 17, 2018 Jul. 19, 2018 ~ Sep. 03, 2018 Sep. 14, 2018 BTL Inc.
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Declaration

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

Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-3-1807C079	Original Issue.	Sep. 14, 2018

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1. CERTIFICATION

Equipment : Notebook Brand Name : RAZER Test Model : RZ09-0270

Series Model: N/A

Applicant : Razer Inc. Manufacturer : Razer Inc.

Address : 201 3rd Street, Suite 900, San Francisco, CA 94103,USA

Date of Test : Jul. 19, 2018 ~ Sep. 03, 2018

Test Sample: Engineering Sample No.: D180705773

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-3-1807C079) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the WIFI 2.4GHz part.

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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)	6 dB Bandwidth	PASS		
15.247(b)(3)	Maximum 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		

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(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: 854385 BTL's designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	Ι	3.57
		30 MHz~200 MHz	V	3.82
DG-CB03 CISF		30 MH~200 MHz	Ι	3.78
	CISPR	200 MHz~1,000 MHz	V	4.10
DG-CB03	CISER	200 MHz~1,000 MHz	Τ	4.06
		1 GHz~18 GHz	V	3.12
		1 GHz~18 GHz	Ι	3.68
		18 GHz~40 GHz	V	4.15
		18 GHz~40 GHz	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	Notebook		
Brand Name	RAZER		
Test Model	RZ09-0270		
Series Model	N/A		
Model Difference(s)	N/A		
Software Version	Windows 10 Pro		
Hardware Version	DANA _MB		
	Operation Frequency	2412 MHz ~2462 MHz	
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM	
Product Description	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: 24.14 dBm 802.11g: 26.40 dBm 802.11n(20 MHz): 26.38 dBm 802.11n(40 MHz): 24.55 dBm	
Power Source	1# DC Voltage supplied from AC/DC adapter. Brand/ Model: DELTA/ ADP-180TB F 2# Supplied from Li-ion battery Brand/Model: RAZER/ RC30-0270		
Power Rating	1# I/P: 100-240V~ 2.34A 50/60Hz O/P: 19.5V 9.23A 2# DC 15.4V, 4221mAh, 65Wh		

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(20 MHz) CH03 - CH09 for 802.11n(40 MHz)						
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)
1	N/A	N/A	Internal	N/A	2.4
2	N/A	N/A	Internal	N/A	3.69

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R),

So Directional gain = $10log[(10^{G1/20}+10^{G2/20}+...10^{GN/20})^2/N]dBi$,

that is Directional gain= $10log[(10^{2.4/20}+10^{3.69/20})^2/2]dBi = 6.08;$

So, the output power limit is 30-6.08+6=29.92,

the power density limit is 8-6.08+6=7.92.

4. The worst case as follow:

Operating Mode TX Mode	2TX
TX WOUC	
802.11b	V (ANT 1+ANT 2)
802.11g	V (ANT 1+ANT 2)
802.11n (20MHz)	V (ANT 1+ANT 2)
802.11n (40MHz)	V (ANT 1+ANT 2)

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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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz 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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz 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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	

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6 dB 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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	

Maximum 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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz 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-20 MHz Mode Channel 01/06/11	
Mode 4	TX N-40 MHz Mode Channel 03/06/09	

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1 Mbps)
 - 802.11g mode: OFDM (6 Mbps)
 - 802.11n HT20 mode : BPSK (13 Mbps) 802.11n HT40 mode : BPSK (27 Mbps)
 - For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated 30 MHz to 1000 MHz 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

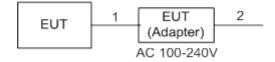
Test software version		DRTU	
Frequency (MHz)	2412	2437	2462
802.11b	15/15	18.5/18.5	17.5/17.5
802.11g	16/16	18.5/18.5	16.5/16.5
802.11n (20 MHz)	15.5/15.5	18.5/18.5	16/16
Frequency (MHz)	2422	2437	2452
802.11n (40 MHz)	13/13	15.5/15.5	14/14

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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.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	2m	DC Cable
2	NO	NO	1m	AC Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

4.1.3 DEVIATION FROM TEST STANDARD

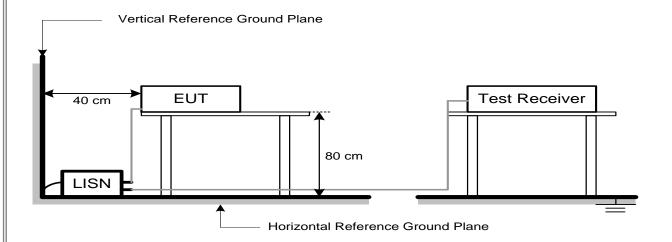
No deviation

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4.1.4 TEST SETUP



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 Appendix 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 (9 kHz-1000 MHz)

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 1000 MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)		
r requericy (Wiriz)	Peak	Average	
Above 1000	74	54	

Note:

- (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	1 MHz / 3 MHz for Peak,
(Emission in restricted band)	1 MHz / 1/T for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz 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 1 GHz)
- 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 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1 GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

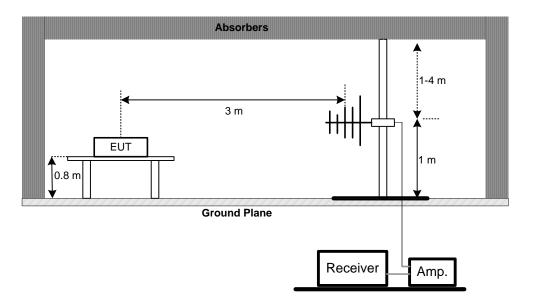
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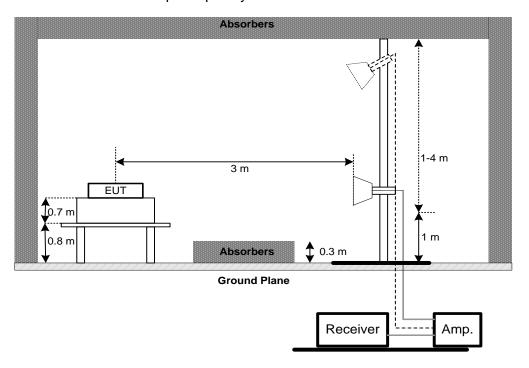


4.2.4 TEST SETUP

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



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

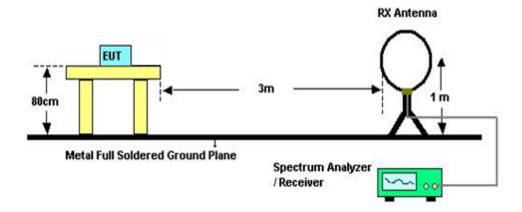


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(C) For Radiated Emissions 9 kHz-30 MHz



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 (9 kHz TO 30 MHz)

Please refer to the Appendix B

Remark:

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

4.2.8 TEST RESULTS (30 MHz TO 1000 MHz)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Appendix D.

Remark:

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

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247), Subpart C			
Section Test Item Frequency Range (MHz)			
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= 100 kHz, VBW=300 kHz, 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 Appendix E.

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6. MAXIMUM 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 30 dBm	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 v04 DTS Meas Guidance and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 OWEI WICKEI

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 Appendix 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 intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

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= 100 kHz, VBW=300 kHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

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 Appendix 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 Ra (MHz)				Result
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)	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=3 kHz, VBW=10 kHz, 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 Appendix 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. 11, 2019	
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019	
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019	
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019	
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
6	Cable	N/A	RG223	12m	Mar. 23, 2019	

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

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

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

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

	Maximum output power										
Item	Kind of Equipment	Manufacturer Type No.		Serial No.	Calibrated until						
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 11, 2019						
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 11, 2019						

	Antenna Conducted Spurious Emission								
Item	m Kind of Equipment Manufactur		Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 11, 2019				

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

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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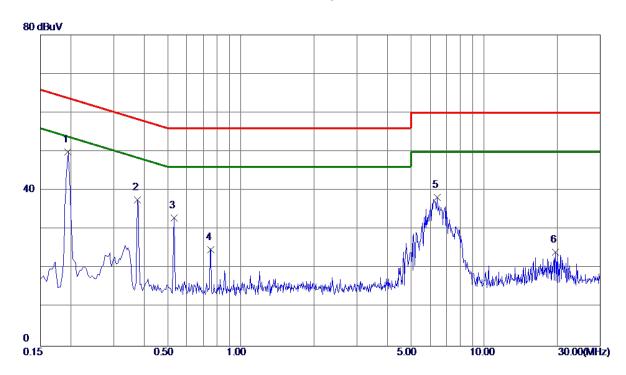
APPENDIX A - CONDUCTED EMISSION

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Line



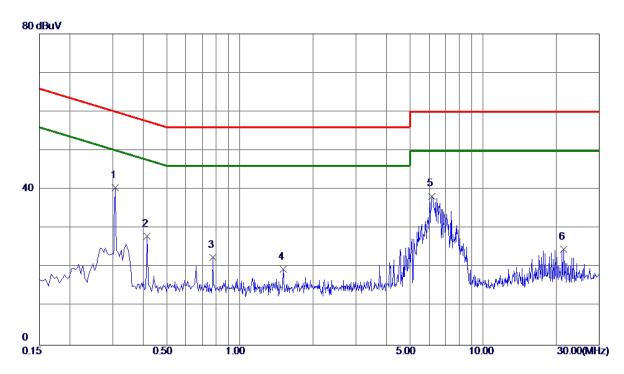
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1949	40.09	9.82	49.91	63.83	-13.92	Peak	
2	0.3750	27.77	9.81	37. 58	58. 39	-20.81	Peak	
3	0. 5325	23. 17	9.80	32. 97	56.00	-23. 03	Peak	
4	0.7530	14.94	9.89	24.83	56.00	-31. 17	Peak	
5	6.4005	27. 93	10. 29	38. 22	60.00	-21.78	Peak	
6	19. 5990	13.02	11. 15	24. 17	60.00	-35.83	Peak	

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Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.3075	30. 58	9. 93	40. 51	60.04	-19. 53	Peak	
2	0.4155	18. 12	9. 95	28. 07	57.54	-29.47	Peak	
3	0.7755	12.47	10.08	22. 55	56.00	-33.45	Peak	
4	1.5090	9. 31	10. 16	19. 47	56.00	-36. 53	Peak	
5	6. 1665	27.81	10. 51	38. 32	60.00	-21.68	Peak	
6	21. 4395	13. 19	11. 48	24. 67	60.00	-35. 33	Peak	

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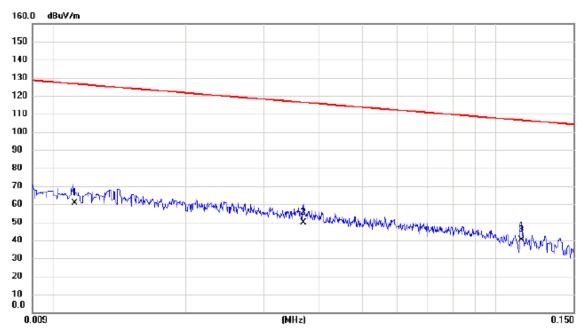
APPENDIX B - RADIATED EMISSION (9 KHZ TO 30 MHZ)

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Ant 0°



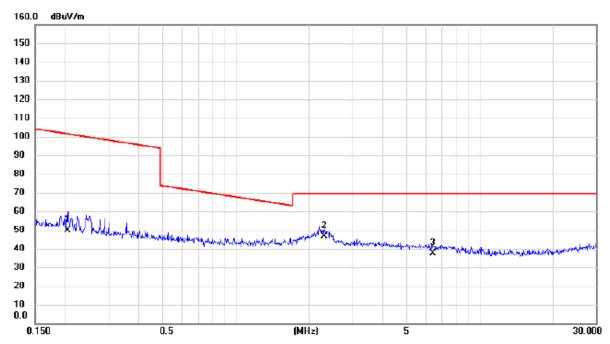
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV/m	dB	dBu\/m	dBu∀/m	dB	Detector	Comment
1 *	0.0112	39.50	21.25	60.75	126.62	-65.87	AVG	
2	0.0368	30.10	19.74	49.84	116.29	-66.45	AVG	
3	0.1142	22.30	18.10	40.40	106.45	-66.05	AVG	

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Ant 0°



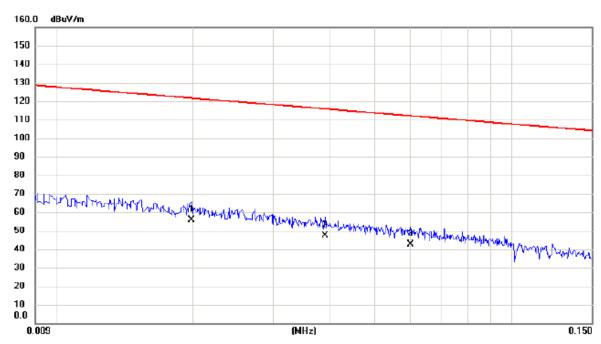
No. Mk.	Freq.			Measure- ment		Margin			
	MHz	dBu∀/m	dB	dBuV/m	dBu∀/m	dB	Detector	Comment	
1	0.2040	32.50	17.14	49.64	101.41	-51.77	AVG		
2 *	2.2968	29.80	16.94	46.74	69.54	-22.80	QP		
3	6.3860	22.50	14.94	37.44	69.54	-32.10	QP		

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Ant 90°



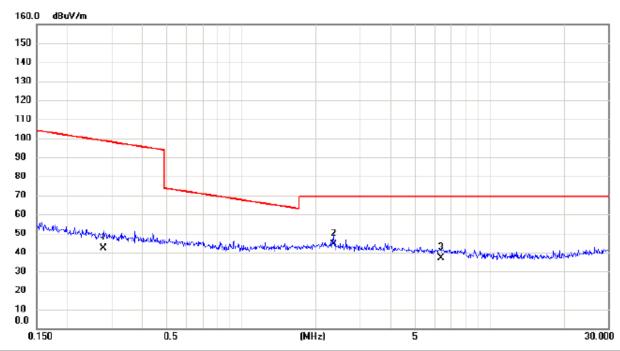
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBu∀/m	dB	Detector	Comment
1	*	0.0198	35.60	20.05	55.65	121.67	-66.02	AVG	
2		0.0390	27.80	19.70	47.50	115.78	-68.28	AVG	
3		0.0600	23.10	19.33	42.43	112.04	-69.61	AVG	

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Ant 90°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	0.2788	25.20	17.05	42.25	98.70	-56.45	AVG		
2 *	2.3460	27.30	16.91	44.21	69.54	-25.33	QP		
3	6.3520	22.10	14.95	37.05	69.54	-32.49	QP		

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

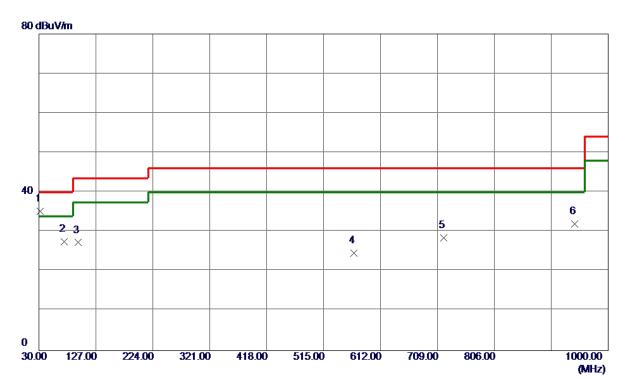
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Test Mode: TX B Mode Channel 01

Vertical



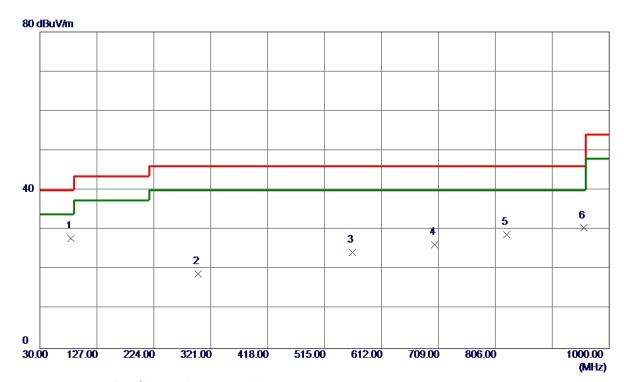
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	31.9400	50. 26	-15. 04	35. 22	40.00	-4.78	Peak	
2	72.6800	45. 49	-17. 93	27. 56	40.00	-12.44	Peak	
3	96. 9300	46. 01	-18.73	27. 28	43.50	-16. 22	Peak	
4	566. 4099	30. 39	-5.74	24.65	46.00	-21. 35	Peak	
5	719.6700	31.71	-3. 26	28.45	46.00	-17.55	Peak	
6	942. 7700	30. 82	1. 12	31. 94	46.00	-14.06	Peak	

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Horizontal



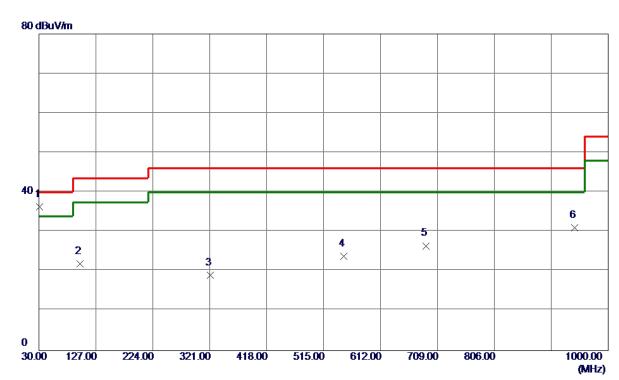
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	82. 3800	46.69	-18.84	27.85	40.00	-12. 15	Peak	
2	299.6600	29. 22	-10. 39	18.83	46.00	-27. 17	Peak	
3	562. 5300	30.03	-5. 67	24. 36	46.00	-21.64	Peak	
4	702. 2100	29.02	-2.80	26. 22	46.00	-19.78	Peak	
5	825. 4000	30. 24	-1.44	28.80	46.00	-17.20	Peak	
6	957. 3200	29. 24	1. 24	30. 48	46.00	-15. 52	Peak	

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Vertical



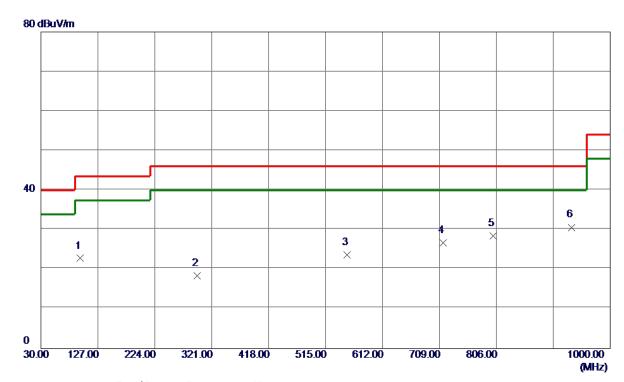
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	30.9700	51. 35	-15. 00	36. 35	40.00	-3.65	Peak	
2	99.8399	40. 15	-18. 30	21.85	43.50	-21.65	Peak	
3	321.9700	29. 73	-10.68	19. 05	46.00	-26. 95	Peak	
4	549. 9200	29. 31	-5. 47	23.84	46.00	-22. 16	Peak	
5	689.6000	29. 73	-3. 25	26. 48	46.00	-19. 52	Peak	
6	942.7700	29.85	1. 12	30. 97	46.00	-15.03	Peak	

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Horizontal



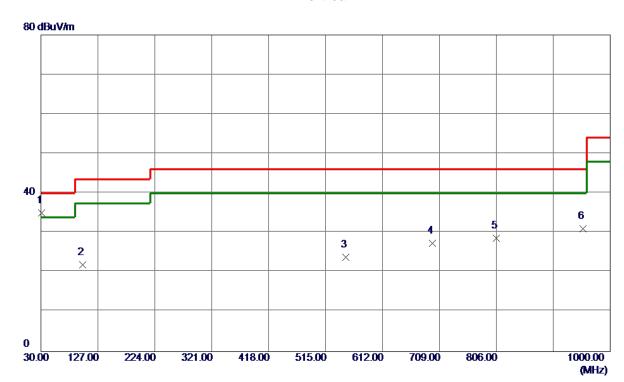
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	96. 9300	41.53	-18. 73	22.80	43.50	-20.70	Peak	
2	295. 7800	29.05	-10.62	18. 43	46.00	-27.57	Peak	
3	551.8600	29. 10	-5.49	23.61	46.00	-22.39	Peak	
4	715. 7900	29. 91	-3. 15	26. 76	46.00	-19.24	Peak	
5	800. 1800	29. 55	-1.04	28. 51	46.00	-17.49	Peak	
6 *	934. 0400	29. 87	0. 77	30. 64	46.00	-15. 36	Peak	

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Vertical



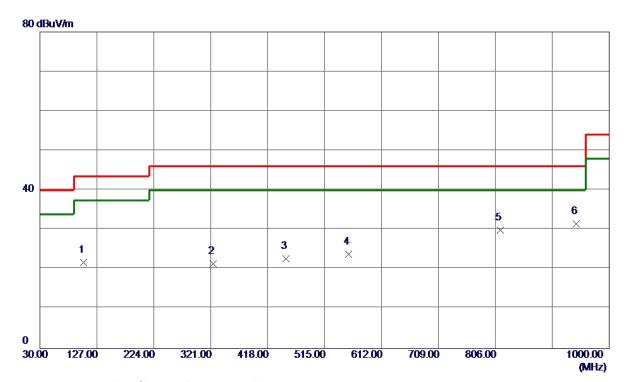
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	30.9700	50. 10	-15. 00	35. 10	40.00	-4.90	Peak	
2	100.8100	40.04	-18. 12	21. 92	43.50	-21.58	Peak	
3	549. 9200	29. 38	-5. 47	23. 91	46.00	-22.09	Peak	
4	697. 3600	30. 28	-2.87	27.41	46.00	-18. 59	Peak	
5	806. 0000	29. 75	-1. 13	28. 62	46.00	-17. 38	Peak	
6	953. 4400	29. 64	1. 33	30. 97	46.00	-15. 03	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	104.6900	39. 14	-17. 34	21.80	43.50	-21.70	Peak	
2	324.8800	32.09	-10.72	21. 37	46.00	-24.63	Peak	
3	449.0400	30. 16	-7.44	22.72	46.00	-23. 28	Peak	
4	555.7400	29. 46	-5. 56	23. 90	46.00	-22. 10	Peak	
5	814.7300	31. 16	-1.27	29.89	46.00	-16. 11	Peak	
6 *	943. 7400	30. 29	1. 16	31. 45	46.00	-14.55	Peak	

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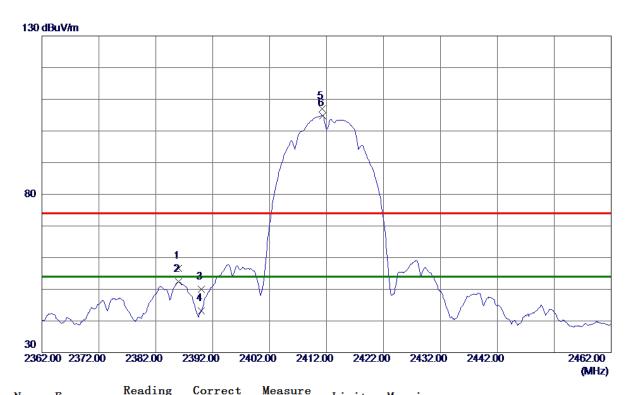
APPENDIX D - RADIATED EMISSION (ABOVE 1000 MHZ)

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Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz



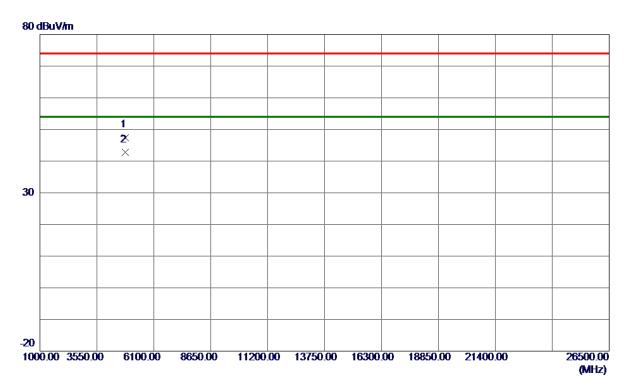
		Level	Factor	ment	Limit	Margin		
MH	[z	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 23	86. 0000	49. 29	7. 39	56. 68	74.00	-17.32	Peak	
2 23	86. 0000	44.96	7. 39	52. 35	54.00	-1.65	AVG	
3 23	90. 0000	42.63	7. 39	50.02	74.00	-23.98	Peak	
4 23	90. 0000	35. 76	7. 39	43. 15	54.00	-10.85	AVG	
5 24	11. 2000	99.63	7. 37	107.00	74.00	33.00	Peak	No Limit
6 * 24	11. 3000	97. 50	7. 37	104.87	54.00	50.87	AVG	No Limit

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Orthogonal Avia	V
Orthogonal Axis	^
Test Mode:	TX B Mode 2412 MHz



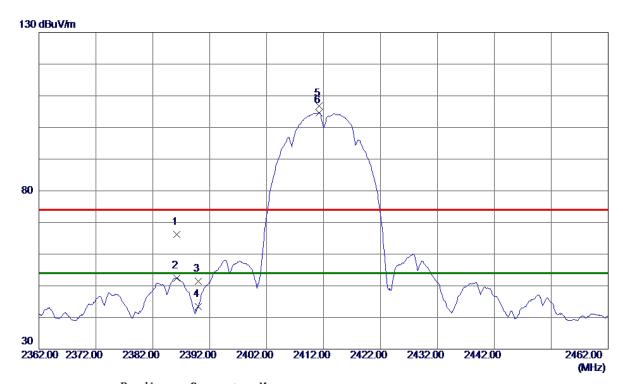
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824. 0219	44.01	3.49	47. 50	74.00	-26. 50	Peak	
2 *	4824, 0980	39, 33	3, 49	42, 82	54. 00	-11. 18	AVG	

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Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz



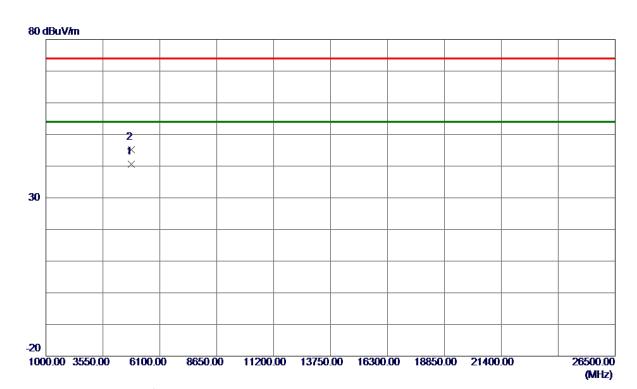
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2386. 2000	58. 84	7. 39	66. 23	74.00	-7.77	Peak	
2	2386. 2000	45.05	7. 39	52. 44	54.00	-1.56	AVG	
3	2390.0000	43.95	7. 39	51. 34	74.00	-22.66	Peak	
4	2390.0000	36. 03	7. 39	43.42	54.00	-10. 58	AVG	
5	2411. 2000	99. 52	7. 37	106.89	74.00	32.89	Peak	No Limit
6 *	2411. 2000	97. 30	7. 37	104. 67	54.00	50. 67	AVG	No Limit

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Orthogonal Axis	X
Test Mode:	TX B Mode 2412 MHz



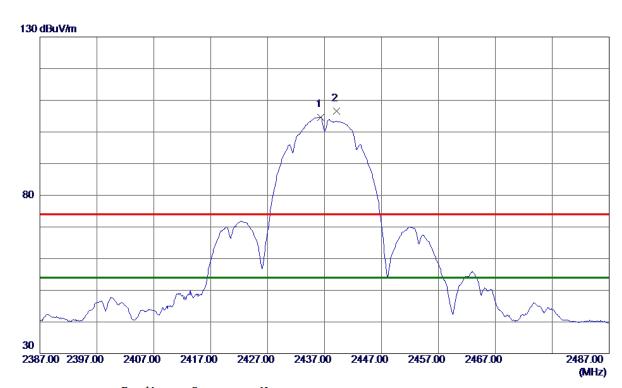
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824.0230	30.66	9. 91	40. 57	54.00	-13.43	AVG	
2	4824. 0960	35. 26	9. 91	45. 17	74.00	-28.83	Peak	

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Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz



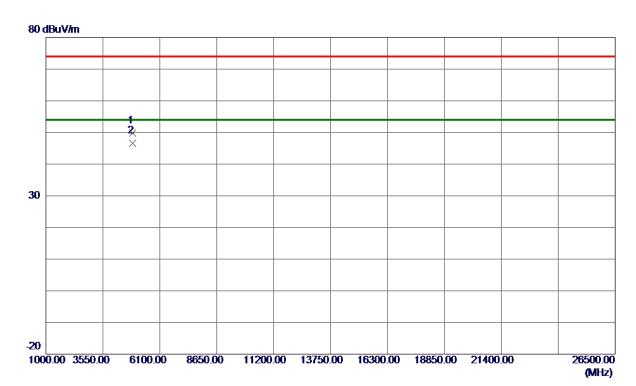
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2436. 3000	93. 39	11. 31	104.70	54.00	50.70	AVG	No Limit
2	2439. 1000	95. 33	11. 31	106.64	74.00	32.64	Peak	No Limit

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Orthogonal Axis	x
Test Mode:	TX B Mode 2437 MHz



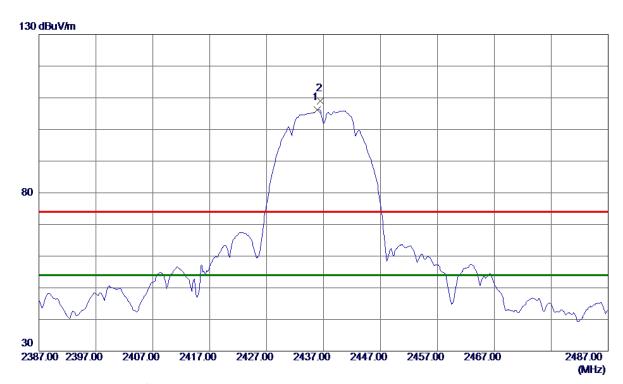
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0019	46. 15	3. 61	49.76	74.00	-24. 24	Peak	
2 *	4874.0520	43. 01	3. 61	46. 62	54.00	-7. 38	AVG	

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Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz



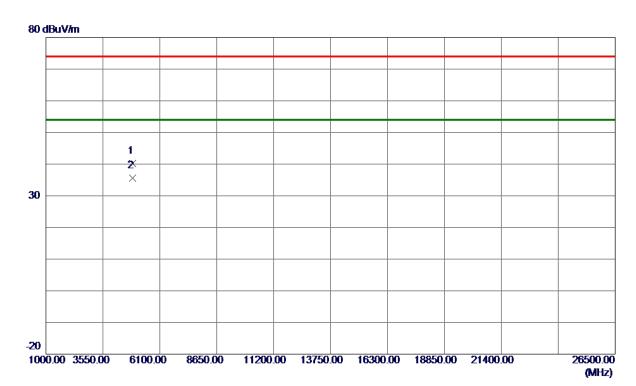
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435. 9000	98. 87	7. 35	106. 22	54.00	52. 22	AVG	No Limit
2	2436. 5000	101.62	7. 35	108. 97	74.00	34. 97	Peak	No Limit

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Orthogonal Axis	X
Test Mode:	TX B Mode 2437 MHz



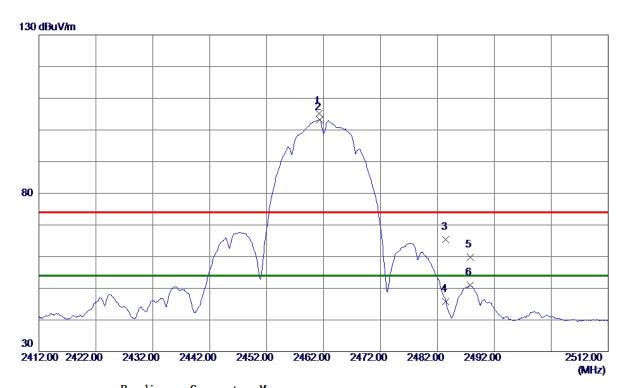
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9900	30. 23	10.05	40. 28	74.00	-33.72	Peak	
2 *	4874. 0230	25. 64	10. 05	35. 69	54.00	-18. 31	AVG	

Report No.: BTL-FCCP-3-1807C079 Page 50 of 174





Orthogonal Axis	X
Test Mode:	TX B Mode 2462 MHz



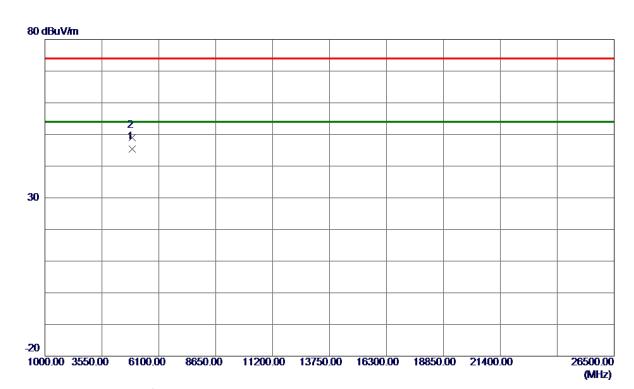
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461. 2000	93.83	11. 32	105. 15	74.00	31. 15	Peak	No Limit
2 *	2461. 3000	91.88	11. 32	103. 20	54.00	49. 20	AVG	No Limit
3	2483. 5000	54.09	11. 32	65.41	74.00	-8. 59	Peak	
4	2483. 5000	34. 39	11. 32	45.71	54.00	-8. 29	AVG	
5	2487.8000	48. 53	11. 32	59.85	74.00	-14. 15	Peak	
6	2487.8000	39. 66	11. 32	50. 98	54.00	-3.02	AVG	

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Orthogonal Axis	x
Test Mode:	TX B Mode 2462 MHz



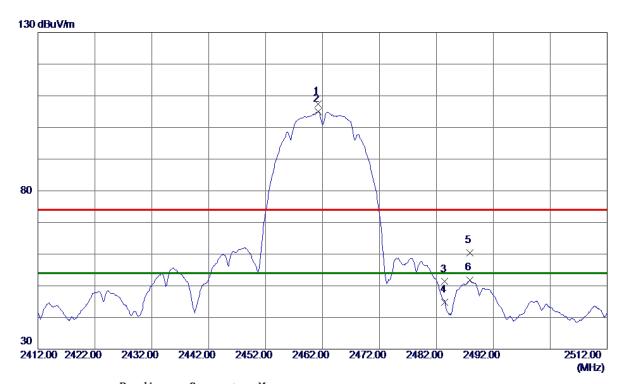
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 9880	41.61	3.73	45. 34	54.00	-8. 66	AVG	
2	4924. 0980	45. 33	3. 73	49.06	74.00	-24.94	Peak	

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Orthogonal Axis	x
Test Mode:	TX B Mode 2462 MHz



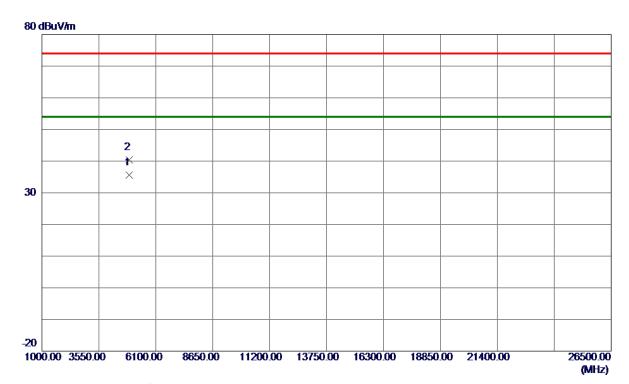
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2461. 2000	100. 09	7. 33	107.42	74.00	33.42	Peak	No Limit
2 *	2461. 2000	97.64	7. 33	104. 97	54.00	50. 97	AVG	No Limit
3	2483. 5000	43.98	7. 32	51. 30	74.00	-22.70	Peak	
4	2483. 5000	37.47	7. 32	44.79	54.00	-9. 21	AVG	
5	2487.9000	53. 09	7. 31	60.40	74.00	-13.60	Peak	
6	2487. 9000	44. 52	7. 31	51.83	54.00	-2. 17	AVG	

Report No.: BTL-FCCP-3-1807C079 Page 53 of 174





Orthogonal Axis	x
Test Mode:	TX B Mode 2462 MHz



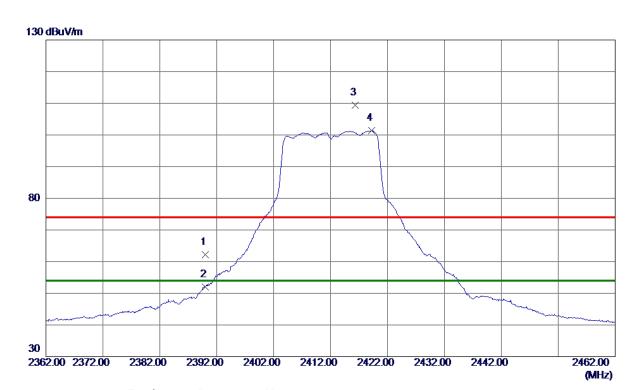
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 9630	25. 50	10. 18	35. 68	54.00	-18.32	AVG	
2	4924. 0150	30. 25	10. 18	40. 43	74.00	-33. 57	Peak	

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Orthogonal Axis	X
Test Mode:	TX G Mode 2412 MHz



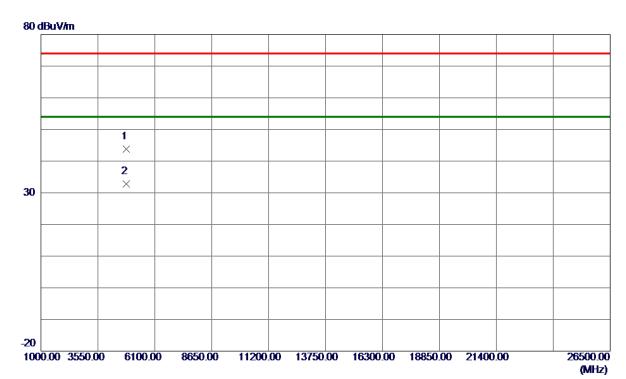
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	50. 97	11. 30	62. 27	74.00	-11.73	Peak	
2	2390.0000	40.79	11. 30	52. 09	54.00	-1.91	AVG	
3	2416. 3000	98. 05	11. 31	109. 36	74.00	35. 36	Peak	No Limit
4 *	2419. 2000	90. 03	11. 31	101. 34	54.00	47.34	AVG	No Limit

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Orthogonal Axis	x
Test Mode:	TX G Mode 2412 MHz



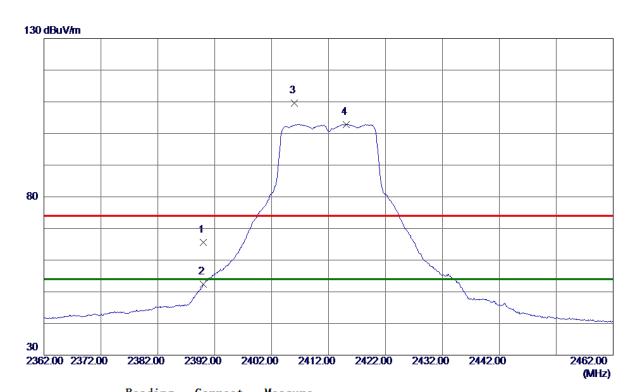
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823. 9020	40. 25	3.49	43.74	74.00	-30. 26	Peak	
2 *	4824, 4400	29. 34	3, 50	32, 84	54.00	-21, 16	AVG	

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Orthogonal Axis	x
Test Mode:	TX G Mode 2412 MHz



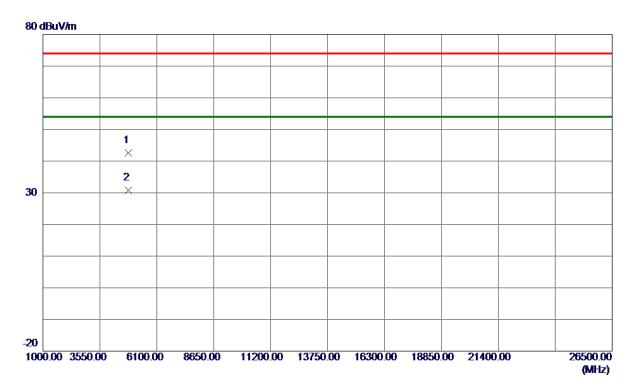
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	58. 16	7. 39	65. 55	74.00	-8. 45	Peak	
2	2390.0000	45. 07	7. 39	52.46	54.00	-1.54	AVG	
3	2406.0000	102. 24	7. 38	109.62	74.00	35. 62	Peak	No Limit
4 *	2415. 1000	95. 50	7. 37	102.87	54.00	48.87	AVG	No Limit

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Orthogonal Axis	x
Test Mode:	TX G Mode 2412 MHz



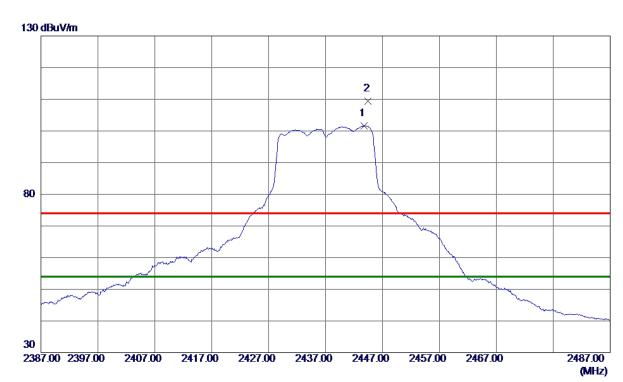
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.8550	32.65	9. 91	42.56	74.00	-31.44	Peak	
2 *	4825. 2550	20. 96	9. 92	30.88	54.00	-23. 12	AVG	

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Orthogonal Axis	X
Test Mode:	TX G Mode 2437 MHz



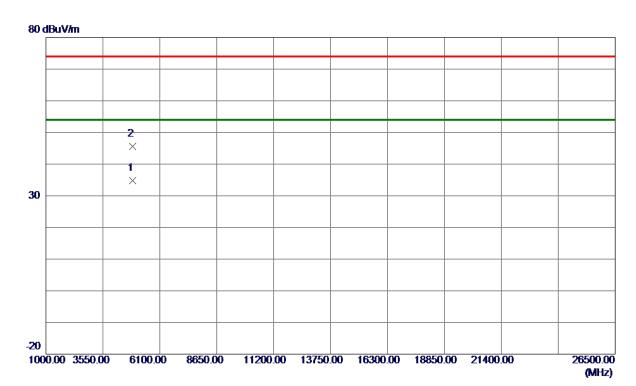
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2443. 8000	90. 34	11. 31	101.65	54.00	47.65	AVG	No Limit
2	2444. 5000	98. 03	11. 31	109. 34	74.00	35. 34	Peak	No Limit

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Orthogonal Axis	x
Test Mode:	TX G Mode 2437 MHz



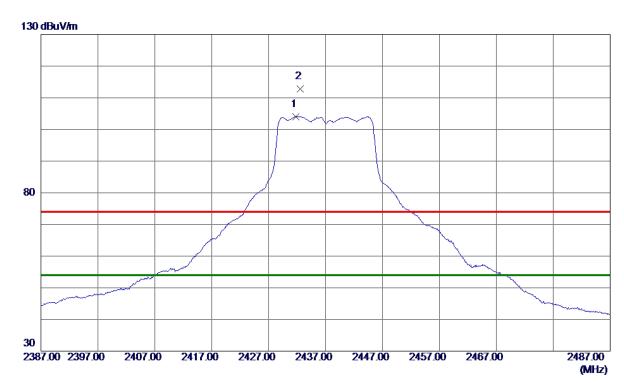
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874. 1640	31. 25	3. 61	34.86	54.00	-19. 14	AVG	
2	4874. 9480	41. 98	3. 61	45. 59	74.00	-28.41	Peak	

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Orthogonal Axis	x
Test Mode:	TX G Mode 2437 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2431.8000	96.71	7. 36	104.07	54.00	50.07	AVG	No Limit
2	2432.6000	105. 46	7. 36	112.82	74.00	38. 82	Peak	No Limit

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Orthogonal Axis	x
Test Mode:	TX G Mode 2437 MHz



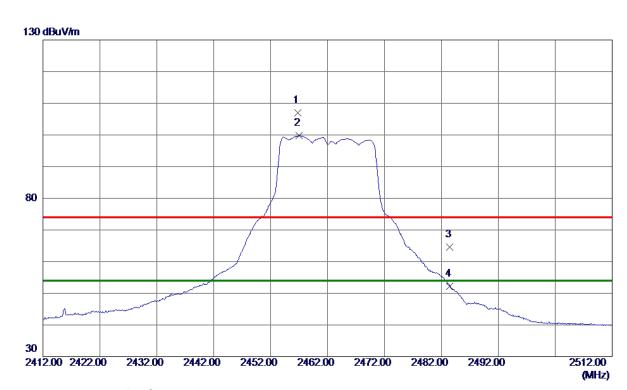
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.7400	32. 14	10.05	42. 19	74.00	-31.81	Peak	
2 *	4875. 8650	20. 93	10.05	30. 98	54.00	-23. 02	AVG	

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Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz



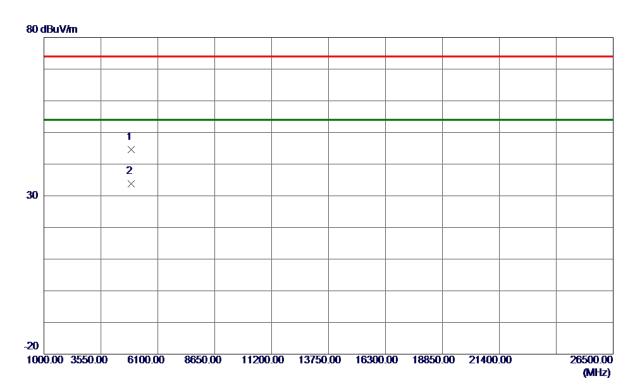
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2456. 8000	95. 68	11. 31	106. 99	74.00	32. 99	Peak	No Limit
2 *	2457.0000	88. 47	11. 32	99. 79	54.00	45. 79	AVG	No Limit
3	2483. 5000	53. 28	11. 32	64.60	74.00	-9.40	Peak	
4	2483. 5000	40. 97	11. 32	52. 29	54.00	-1.71	AVG	

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Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz



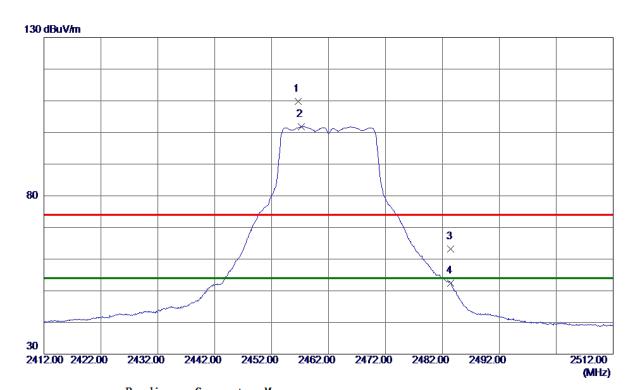
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 5040	40.87	3.73	44.60	74.00	-29.40	Peak	
2 *	4923. 9360	30.00	3. 73	33. 73	54.00	-20. 27	AVG	

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Orthogonal Axis	x
Test Mode:	TX G Mode 2462 MHz



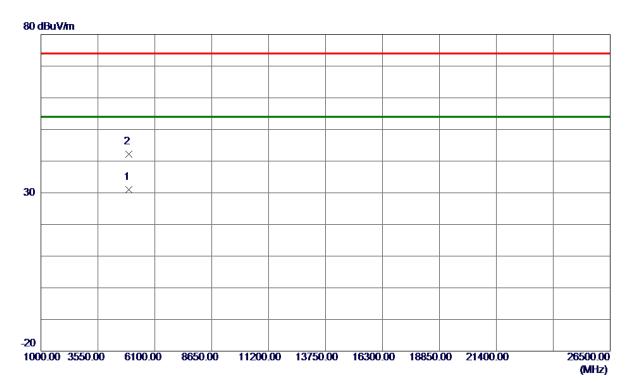
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2456.7000	102. 53	7.34	109.87	74.00	35. 87	Peak	No Limit
2 *	2457. 2000	94. 51	7.34	101.85	54.00	47.85	AVG	No Limit
3	2483. 5000	55. 95	7. 32	63. 27	74.00	-10.73	Peak	
4	2483. 5000	45. 10	7. 32	52. 42	54.00	-1.58	AVG	

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Orthogonal Axis	X
Test Mode:	TX G Mode 2462 MHz



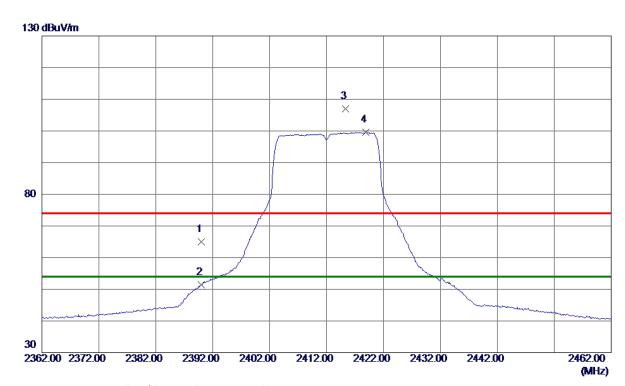
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4925. 8950	20.87	10. 19	31.06	54.00	-22.94	AVG	
2	4925. 9400	31.95	10. 19	42. 14	74.00	-31.86	Peak	

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



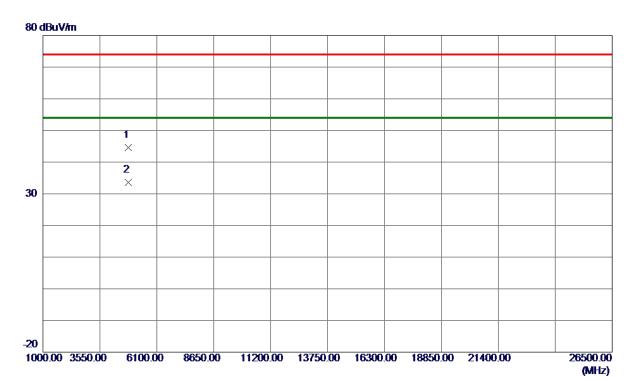
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	53. 67	11. 30	64.97	74.00	-9. 03	Peak	
2	2390.0000	40. 12	11. 30	51.42	54.00	-2. 58	AVG	
3	2415. 3000	95. 70	11. 31	107.01	74.00	33. 01	Peak	No Limit
4 *	2418. 9000	88. 23	11. 31	99. 54	54.00	45. 54	AVG	No Limit

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



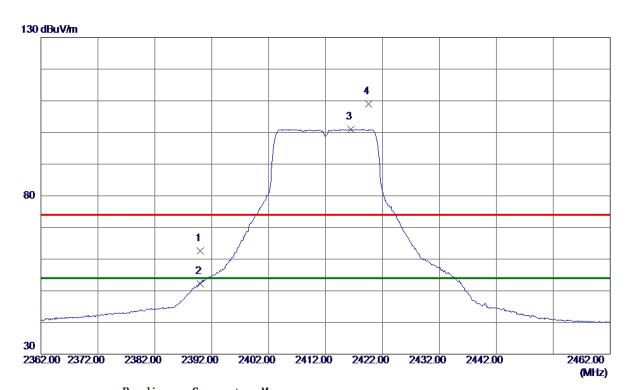
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824. 1600	41.09	3.49	44. 58	74.00	-29.42	Peak	
2 *	4824 8740	30 02	3 50	33 52	54 00	-20 48	AVG	

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



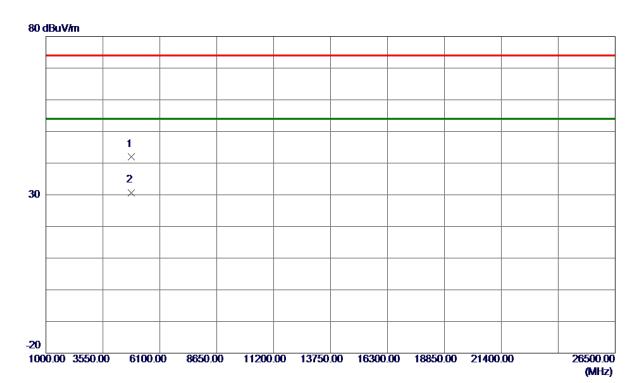
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	55. 18	7. 39	62. 57	74.00	-11.43	Peak	
2	2390.0000	44.81	7. 39	52. 20	54.00	-1.80	AVG	
3 *	2416. 4000	93. 61	7. 37	100. 98	54.00	46. 98	AVG	No Limit
4	2419. 6000	101. 55	7. 37	108. 92	74.00	34.92	Peak	No Limit

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



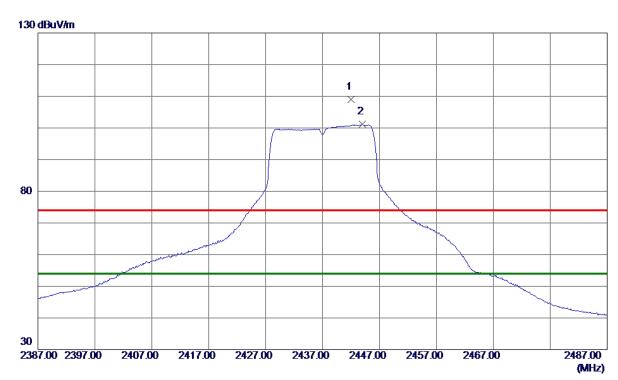
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4821.9150	32. 18	9. 91	42.09	74.00	-31.91	Peak	
2 *	4824. 9450	20. 78	9. 92	30. 70	54.00	-23. 30	AVG	

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



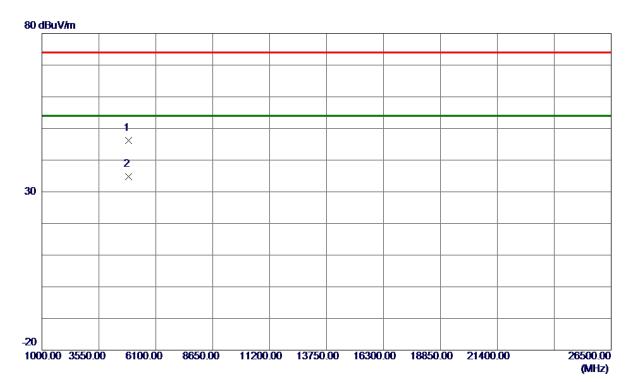
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2442. 0000	97.72	11. 31	109. 03	74.00	35. 03	Peak	No Limit
2 *	2444. 0000	89. 81	11. 31	101. 12	54.00	47. 12	AVG	No Limit

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



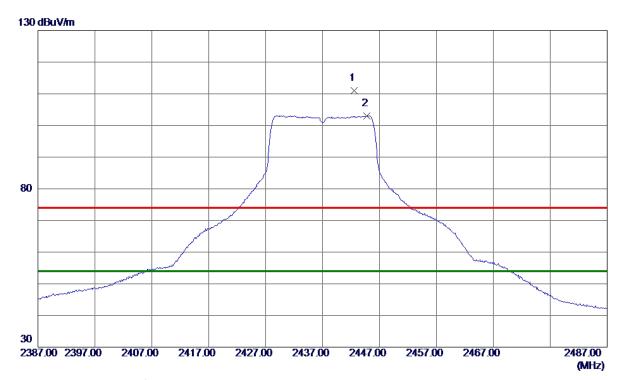
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.6060	42.65	3. 61	46. 26	74.00	-27.74	Peak	
2 *	4873.6540	31. 25	3. 61	34.86	54.00	-19. 14	AVG	

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



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2442.6000	103.70	7. 35	111. 0 5	74.00	37.05	Peak	No Limit
2 *	2444. 8000	95. 70	7. 35	103.05	54.00	49.05	AVG	No Limit

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



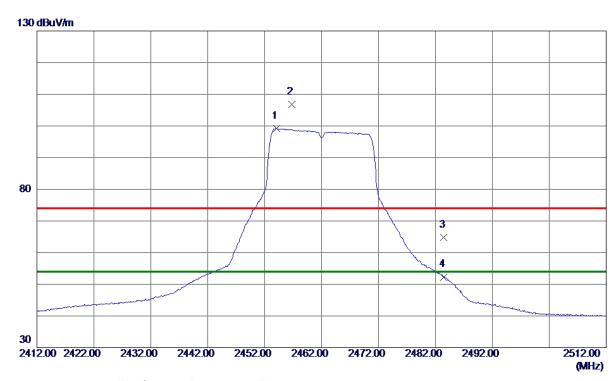
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4871.7550	32.86	10.04	42.90	74.00	-31. 10	Peak	
2 *	4874. 9100	20.82	10.05	30. 87	54.00	-23. 13	AVG	

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



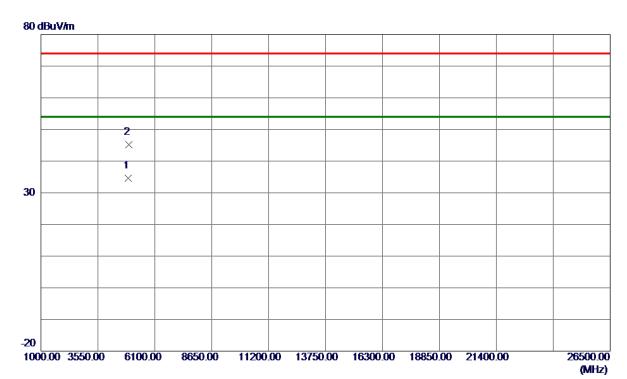
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2454. 1000	87.84	11. 31	99. 15	54.00	45. 15	AVG	No Limit
2	2456.8000	95. 50	11. 31	106.81	74.00	32.81	Peak	No Limit
3	2483. 5000	53. 53	11. 32	64.85	74.00	-9. 15	Peak	
4	2483. 5000	40. 98	11. 32	52. 30	54.00	-1.70	AVG	

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



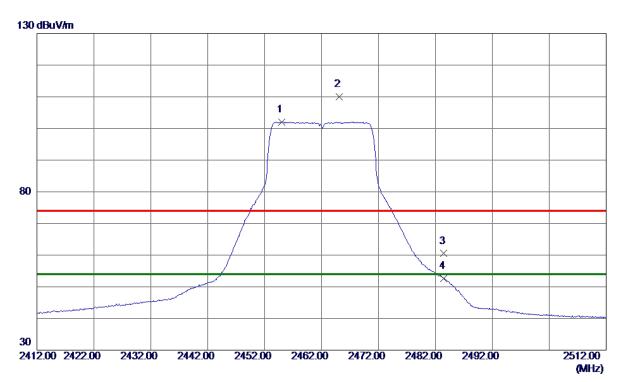
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4923. 5680	30. 96	3. 73	34. 69	54.00	-19. 31	AVG	
2	4924, 8280	41.56	3. 73	45, 29	74. 00	-28, 71	Peak	

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



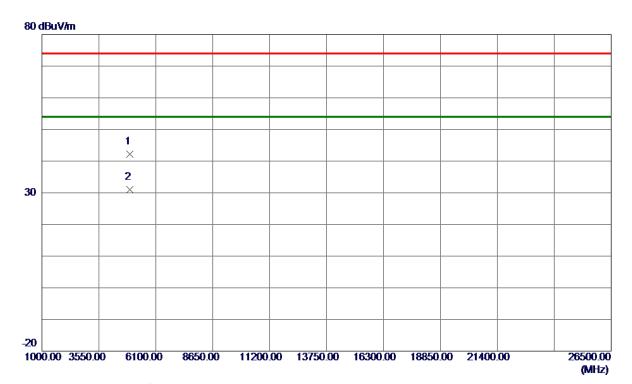
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2455.0000	94.69	7. 34	102.03	54.00	48. 03	AVG	No Limit
2	2465. 1000	102.69	7. 33	110.02	74.00	36. 02	Peak	No Limit
3	2483. 5000	53. 18	7. 32	60. 50	74.00	-13. 50	Peak	
4	2483. 5000	45. 23	7. 32	52. 55	54.00	-1.45	AVG	

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



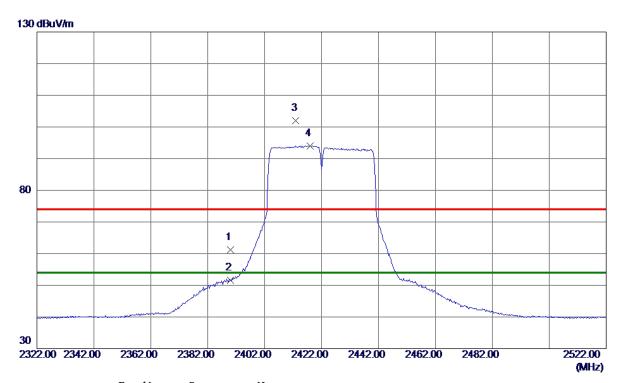
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4925. 5600	31. 99	10. 19	42. 18	74.00	-31.82	Peak	
2 *	4925. 5800	20. 73	10. 19	30. 92	54.00	-23 . 0 8	AVG	

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



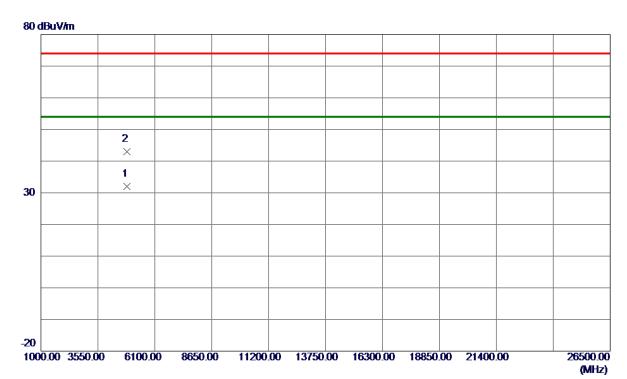
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	49.85	11. 30	61. 15	74.00	-12.85	Peak	
2	2390.0000	40. 35	11. 30	51.65	54.00	-2.35	AVG	
3	2413.0000	90. 61	11. 30	101. 91	74.00	27.91	Peak	No Limit
4 *	2418.0000	82.75	11. 31	94.06	54.00	40.06	AVG	No Limit

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



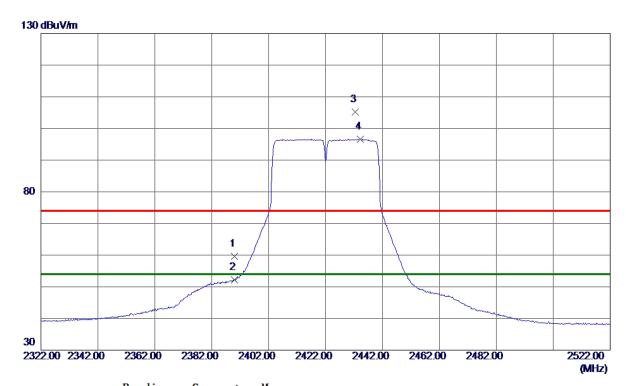
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4844. 0019	28. 54	3. 54	32. 08	54.00	-21.92	AVG	
2	4844, 7220	39. 40	3, 54	42, 94	74. 00	-31, 06	Peak	

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



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	52. 26	7. 39	59.65	74.00	-14.35	Peak	
2	2390.0000	44.80	7. 39	52. 19	54.00	-1.81	AVG	
3	2432. 4000	97.86	7. 36	105. 22	74.00	31. 22	Peak	No Limit
4 *	2434. 2000	89. 28	7. 35	96. 63	54.00	42.63	AVG	No Limit

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



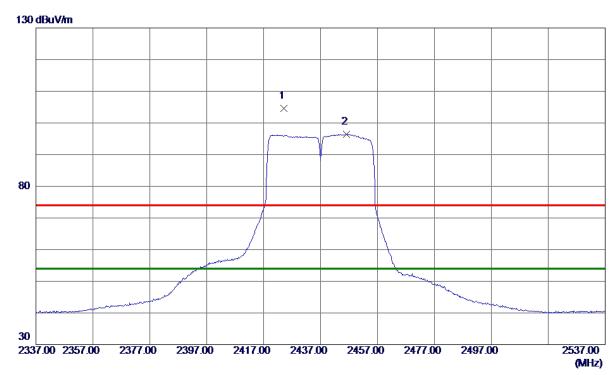
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4842. 4300	32. 70	9. 96	42.66	74.00	-31. 34	Peak	
2 *	4844.8200	21. 04	9. 97	31.01	54.00	-22. 99	AVG	

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Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2437 MHz



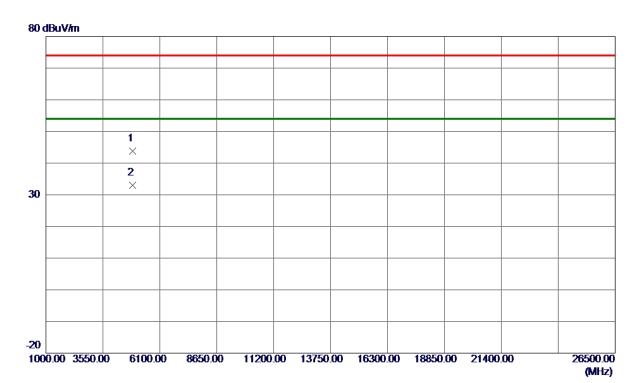
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2424. 2000	93. 33	11. 31	104.64	74.00	30. 64	Peak	No Limit
2 *	2446. 2000	85. 13	11. 31	96. 44	54.00	42.44	AVG	No Limit

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Orthogonal Axis	X
Test Mode:	TX N-40M Mode 2437 MHz



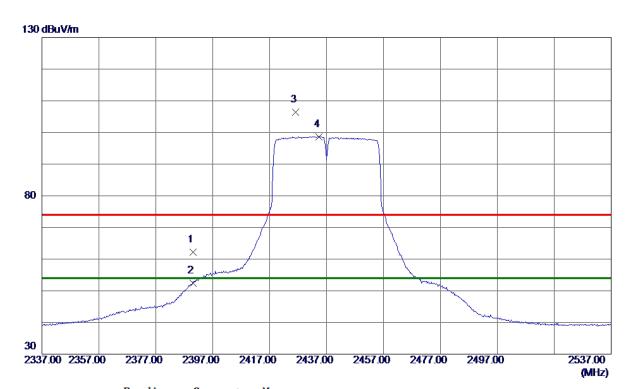
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873. 2540	40. 25	3. 61	43.86	74.00	-30. 14	Peak	
2 *	4873. 3640	29. 32	3. 61	32. 93	54.00	-21.07	AVG	

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Orthogonal Axis	x
Test Mode:	TX N-40M Mode 2437 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	54.90	7. 39	62. 29	74.00	-11.71	Peak	
2	2390.0000	44.97	7. 39	52. 36	54.00	-1.64	AVG	
3	2426. 2000	99. 13	7. 36	106. 49	74.00	32.49	Peak	No Limit
4 *	2434. 4000	91. 30	7. 35	98. 65	54.00	44.65	AVG	No Limit

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Orthogonal Axis	x
Test Mode:	TX N-40M Mode 2437 MHz



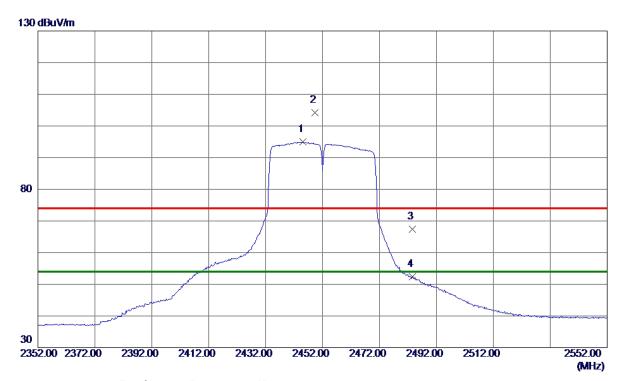
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4872.6000	32.85	10.05	42.90	74.00	-31. 10	Peak	
2 *	4874. 2300	20. 64	10. 05	30. 69	54.00	-23. 31	AVG	

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



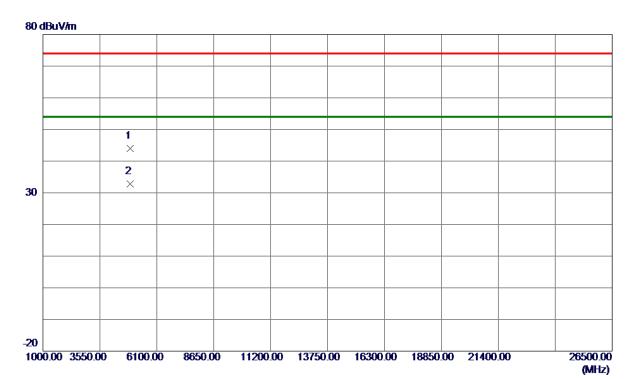
No.	. Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	k 2445. 2000	83. 67	11. 31	94. 98	54.00	40.98	AVG	No Limit
2	2449. 4000	92. 98	11. 31	104. 29	74.00	30. 29	Peak	No Limit
3	2483. 5000	56. 14	11. 32	67.46	74.00	-6. 54	Peak	
4	2483. 5000	41. 12	11. 32	52. 44	54.00	-1.56	AVG	

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



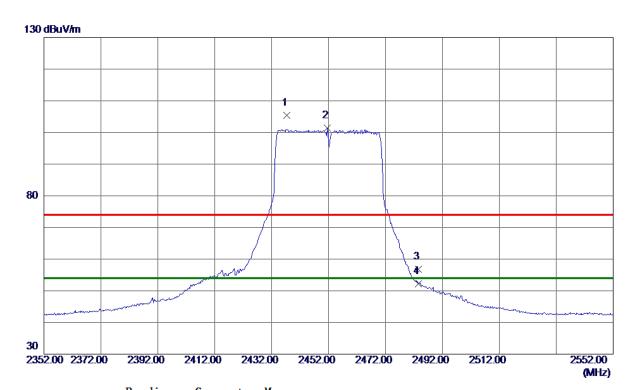
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4904. 6820	40. 25	3. 68	43. 93	74.00	-30. 07	Peak	
2 *	4904, 8900	29. 11	3, 69	32, 80	54, 00	-21, 20	AVG	

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



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2437.4000	97. 97	7. 35	105. 32	74.00	31. 32	Peak	No Limit
2 *	2451.6000	94. 13	7.34	101.47	54.00	47.47	AVG	No Limit
3	2483. 5000	49. 47	7. 32	56. 79	74.00	-17.21	Peak	
4	2483. 5000	44. 97	7. 32	52. 29	54.00	-1.71	AVG	

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



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4902.4100	32. 98	10. 13	43.11	74.00	-30.89	Peak	
2 *	4902. 9300	20. 93	10. 13	31. 06	54.00	-22. 94	AVG	

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APPENDIX E - BANDWIDTH	

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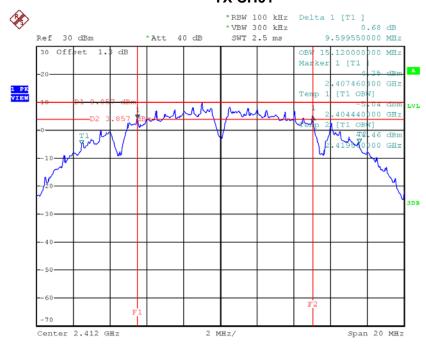




Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	9.60	15.12	500	Complies
2437	9.57	14.92	500	Complies
2462	9.66	14.76	500	Complies

TX CH01

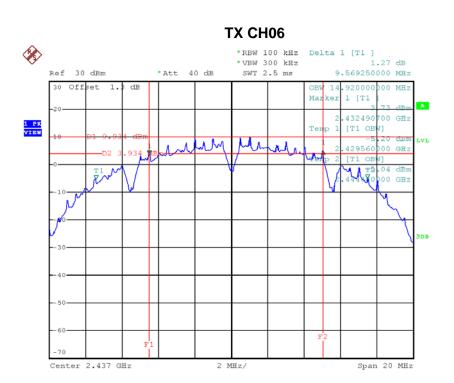


Date: 19.JUL.2018 15:03:09

Report No.: BTL-FCCP-3-1807C079







Date: 19.JUL.2018 15:20:29

TX CH11 *REW 100 kHz Delta 1 [T1] *VDW 300 kHz -0.12 dB SWT 2.5 ms 9.660000000 MHz Ref 30 dBm * Att 40 dB Off dB 760001 1 [T1 .457420000 GHz [T1 OBW] 1 PK VIEW Manhy 454680 000 GHz Center 2.462 GHz 2 MHz/ Span 20 MHz

Date: 19.JUL.2018 15:22:18

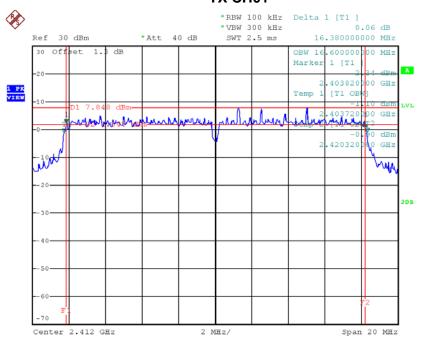




Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.38	16.60	500	Complies
2437	16.40	16.60	500	Complies
2462	16.40	16.56	500	Complies

TX CH01

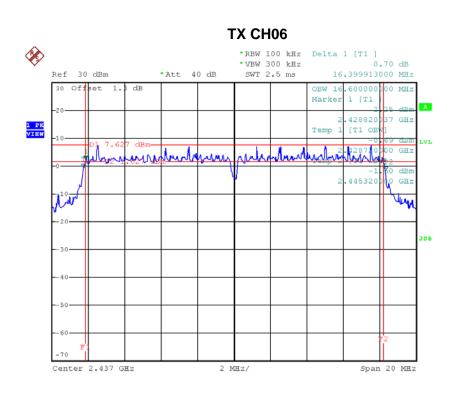


Date: 19.JUL.2018 15:37:00

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Date: 19.JUL.2018 15:38:46

*RBW 100 kHz Delta 1 [T1] *VBW 300 kHz 0.80 dB Ref 30 dBm *Att 40 dB SWT 2.5 ms 16.399950000 MHz 30 Off bet 1.3 dB OBW 16.560000 00 MHz Marker 1 [T1 DEM] 10 D1 7.872 dBm 10 LT CBM] 10 D1 7.872 dBm 2.45370 00 GHz 10 Center 2.462 GHz 2 MHz/ Span 20 MHz Center 2.462 GHz 2 MHz/ Span 20 MHz

Date: 19.JUL.2018 15:40:55

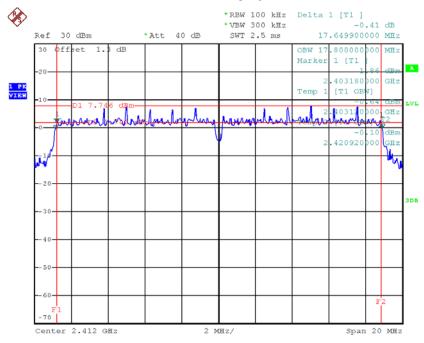




Test Mode: TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.65	17.80	500	Complies
2437	17.64	17.72	500	Complies
2462	17.66	17.72	500	Complies

TX CH01

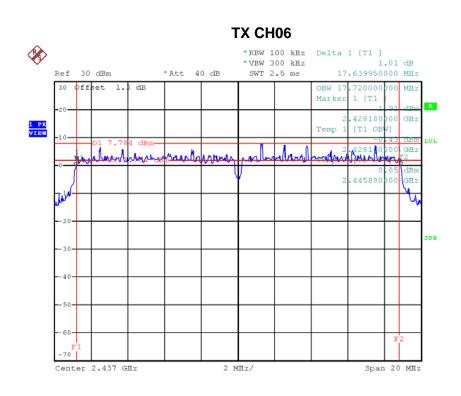


Date: 19.JUL.2018 15:42:48

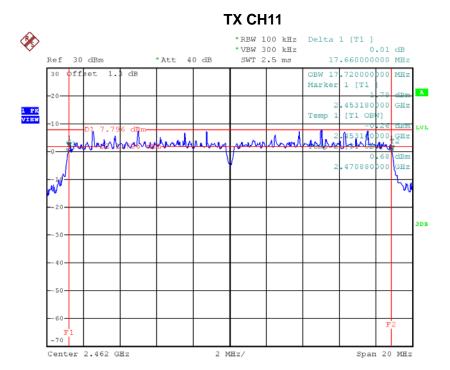
Report No.: BTL-FCCP-3-1807C079







Date: 19.JUL.2018 15:44:45



Date: 19.JUL.2018 15:46:03

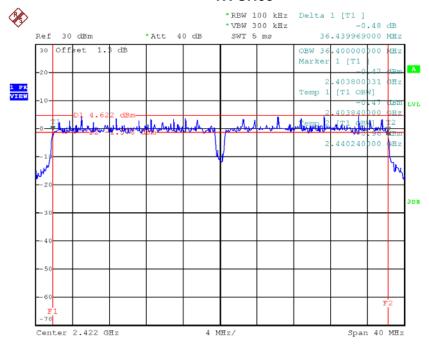




Test Mode: TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6 dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.44	36.40	500	Complies
2437	36.44	36.24	500	Complies
2452	35.77	36.24	500	Complies

TX CH03

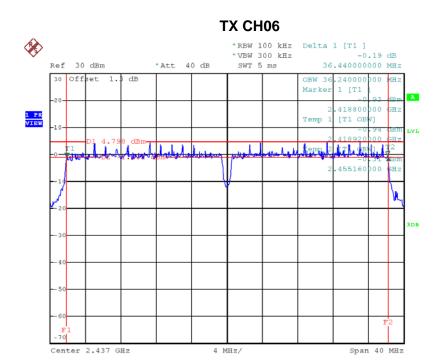


Date: 19.JUL.2018 16:01:48

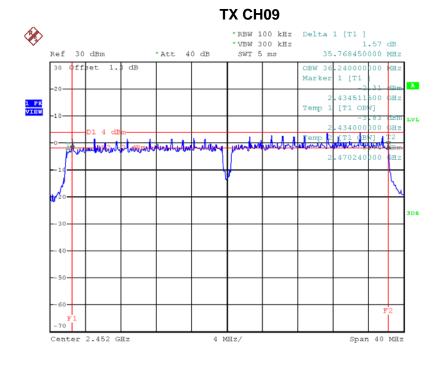
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Date: 19.JUL.2018 16:03:31



Date: 19.JUL.2018 15:59:53





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APPENDIX F - MAXIMUM OUTPUT POWER

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Test Mode: TX B Mode_CH01/06/11_ANT 1						
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Popult	
(MHz)	(dBm)	(W)	(dBm)	(W)	Result	
2412	17.63	0.06	29.92	0.98	Complies	
2437	21.11	0.13	29.92	0.98	Complies	
2462	20.09	0.10	29.92	0.98	Complies	

Test Mode: TX B Mode_CH01/06/11_ANT 2					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2412	17.68	0.06	29.92	0.98	Complies
2437	21.15	0.13	29.92	0.98	Complies
2462	20.06	0.10	29.92	0.98	Complies

Test Mode: TX B Mode_CH01/06/11_Total					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2412	20.67	0.12	29.92	0.98	Complies
2437	24.14	0.26	29.92	0.98	Complies
2462	23.09	0.20	29.92	0.98	Complies

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Test Mode: TX G Mode_CH01/06/11_ANT 1					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Result
2412	21.47	0.14	29.92	0.98	Complies
2437	23.41	0.22	29.92	0.98	Complies
2462	22.01	0.16	29.92	0.98	Complies

Test Mode: TX G Mode_CH01/06/11_ANT 2					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Resuit
2412	21.59	0.14	29.92	0.98	Complies
2437	23.36	0.22	29.92	0.98	Complies
2462	21.98	0.16	29.92	0.98	Complies

Test Mode: TX G Mode_CH01/06/11_Total					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	Resuit
2412	24.54	0.28	29.92	0.98	Complies
2437	26.40	0.44	29.92	0.98	Complies
2462	25.01	0.32	29.92	0.98	Complies

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Test Mode: TX N20 Mode_CH01/06/11_ANT 1					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	
2412	20.91	0.12	29.92	0.98	Complies
2437	23.14	0.21	29.92	0.98	Complies
2462	21.79	0.15	29.92	0.98	Complies

Test Mode: TX N20 Mode_CH01/06/11_ANT 2					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	
2412	21.28	0.13	29.92	0.98	Complies
2437	23.59	0.23	29.92	0.98	Complies
2462	21.51	0.14	29.92	0.98	Complies

Test Mode: TX N20 Mode_CH01/06/11_Total					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	
2412	24.11	0.26	29.92	0.98	Complies
2437	26.38	0.43	29.92	0.98	Complies
2462	24.66	0.29	29.92	0.98	Complies

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Test Mode: TX N40 Mode_CH03/06/09_ANT 1					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	
2422	18.92	0.08	29.92	0.98	Complies
2437	21.44	0.14	29.92	0.98	Complies
2452	19.72	0.09	29.92	0.98	Complies

Test Mode: TX N40 Mode_CH03/06/09_ANT 2					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	
2422	19.53	0.09	29.92	0.98	Complies
2437	21.63	0.15	29.92	0.98	Complies
2452	20.11	0.10	29.92	0.98	Complies

Test Mode: TX N40 Mode_CH03/06/09_Total					
Frequency	Output Power	Output Power	Max. Limit	Max. Limit	Result
(MHz)	(dBm)	(W)	(dBm)	(W)	
2422	22.25	0.17	29.92	0.98	Complies
2437	24.55	0.28	29.92	0.98	Complies
2452	22.93	0.20	29.92	0.98	Complies

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APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

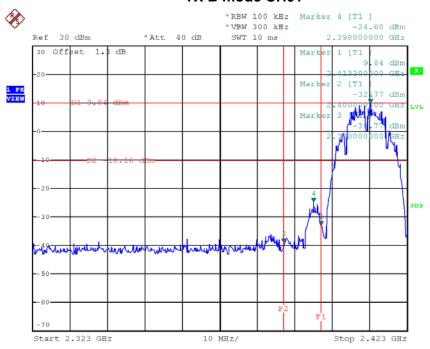
Report No.: BTL-FCCP-3-1807C079 Page 105 of 174





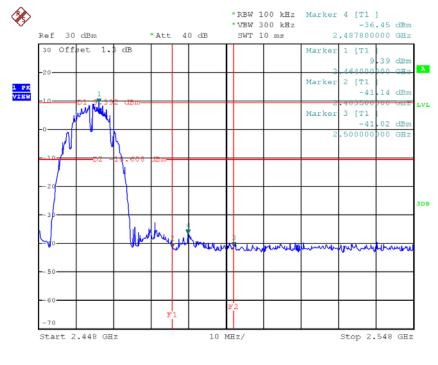
Test Mode: TX B Mode_ANT 1

TX B mode CH01



Date: 19.JUL.2018 15:03:18

TX B mode CH11

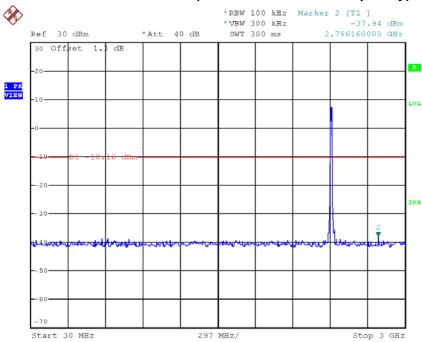


Date: 19.JUL.2018 15:22:26

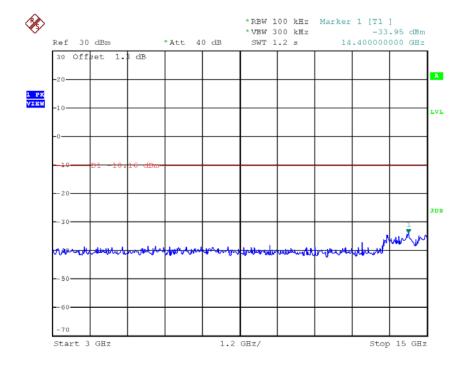








Date: 19.JUL.2018 15:03:32

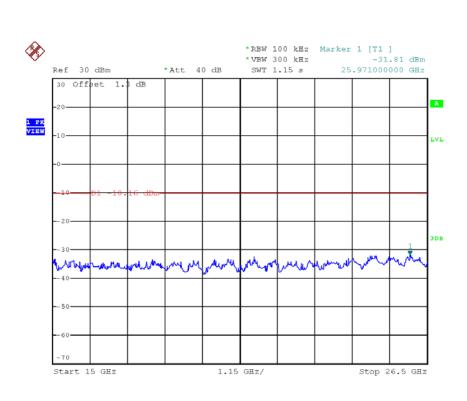


Date: 19.JUL.2018 15:03:40

Report No.: BTL-FCCP-3-1807C079

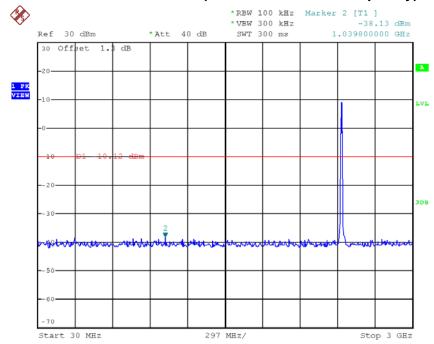






Date: 19.JUL.2018 15:03:47

TX B mode CH06 (10 Harmonic of the frequency)

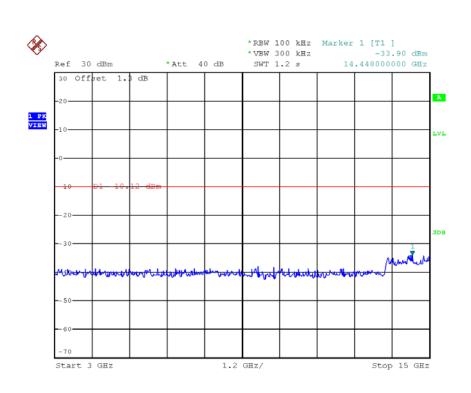


Date: 19.JUL.2018 15:20:51

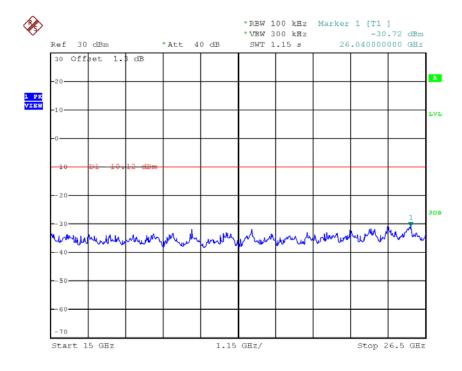
Report No.: BTL-FCCP-3-1807C079







Date: 19.JUL.2018 15:20:59

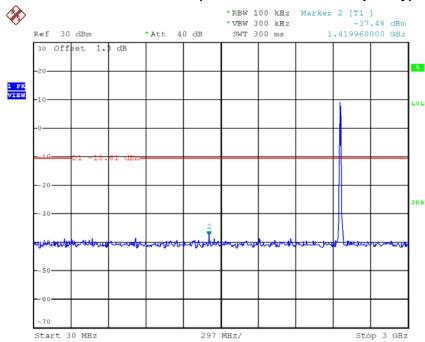


Date: 19.JUL.2018 15:21:07

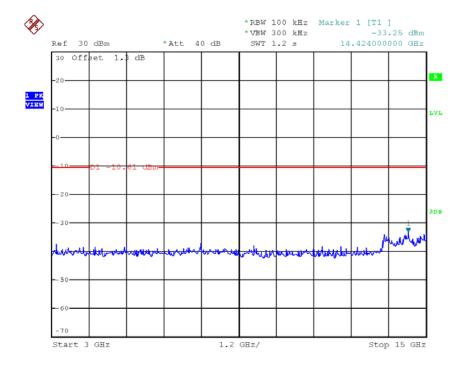








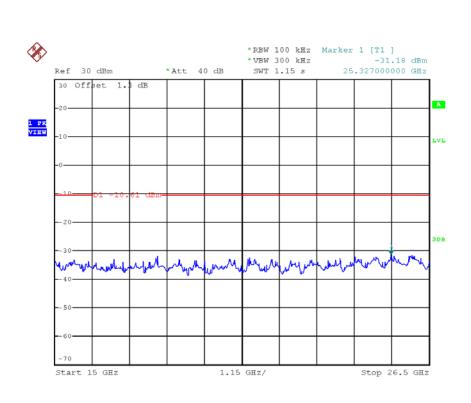
Date: 19.JUL.2018 15:22:40



Date: 19.JUL.2018 15:22:48







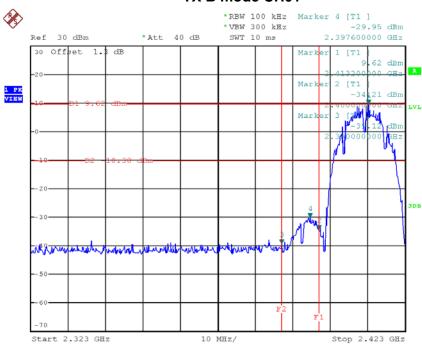
Date: 19.JUL.2018 15:22:56





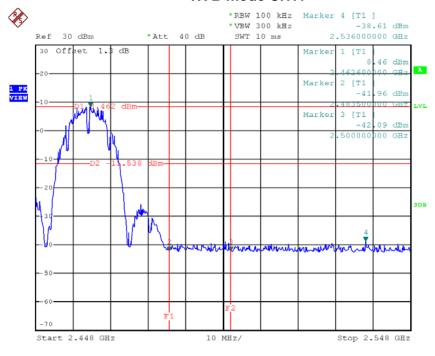
Test Mode: TX B Mode_ANT 2





Date: 19.JUL.2018 15:25:06

TX B mode CH11

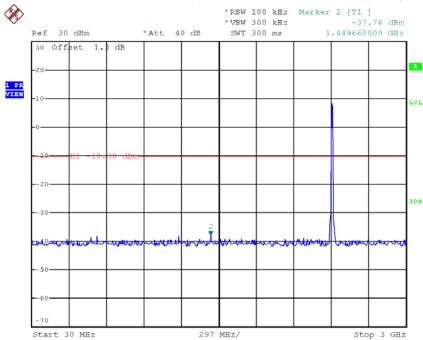


Date: 19.JUL.2018 15:29:07

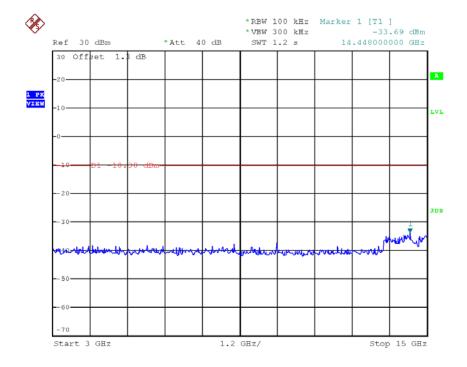








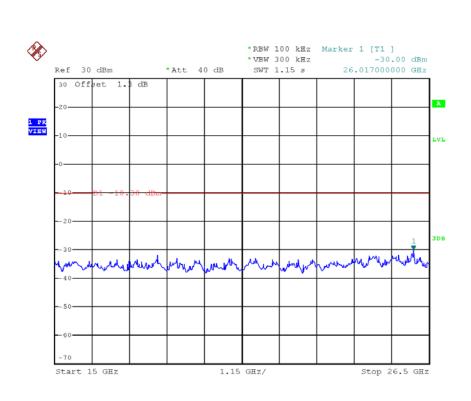
Date: 19.JUL.2018 15:25:20



Date: 19.JUL.2018 15:25:28

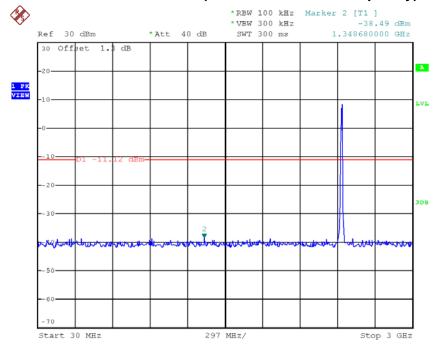






Date: 19.JUL.2018 15:25:36

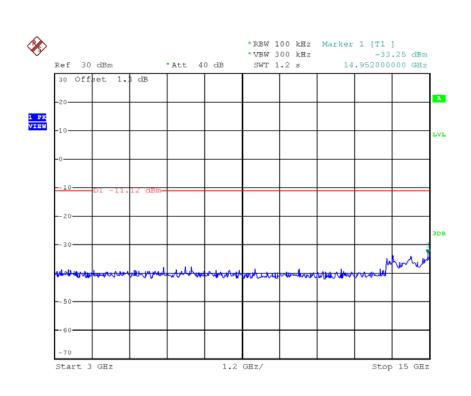
TX B mode CH06 (10 Harmonic of the frequency)



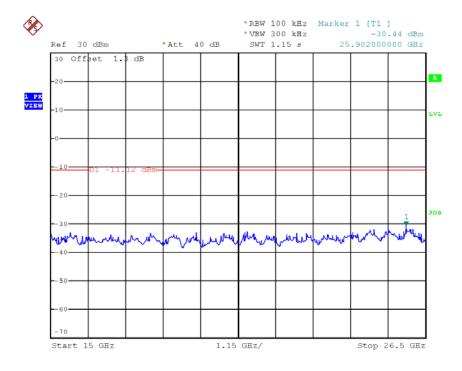
Date: 19.JUL.2018 15:27:34







Date: 19.JUL.2018 15:27:42

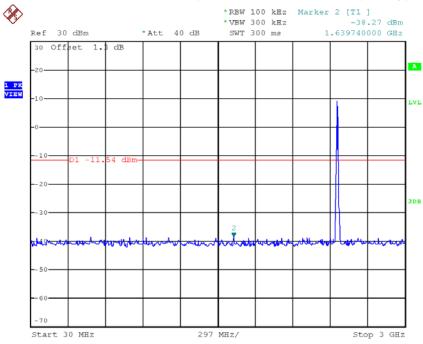


Date: 19.JUL.2018 15:27:50

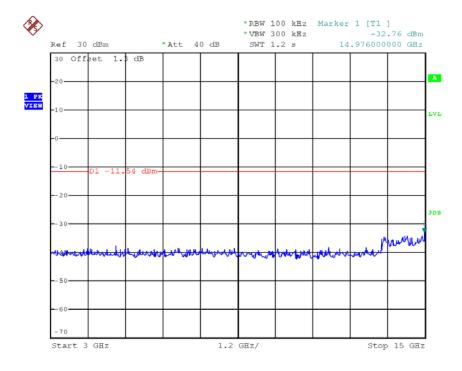








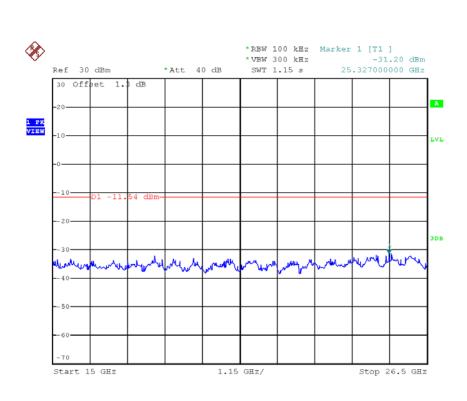
Date: 19.JUL.2018 15:29:20



Date: 19.JUL.2018 15:29:28







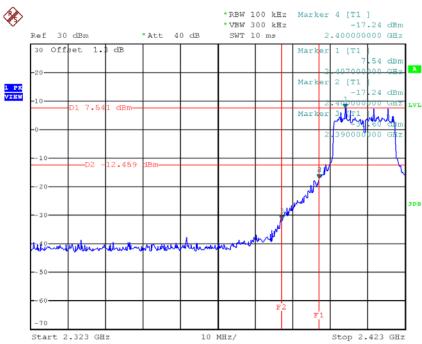
Date: 19.JUL.2018 15:29:36





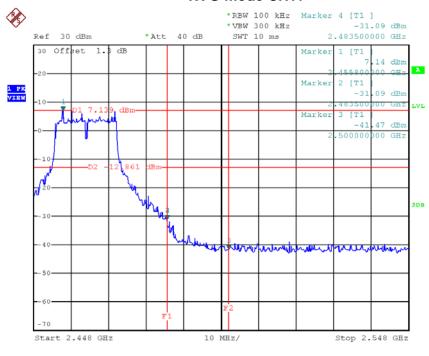
Test Mode: TX G Mode_ANT 1





Date: 19.JUL.2018 15:37:25

TX G mode CH11

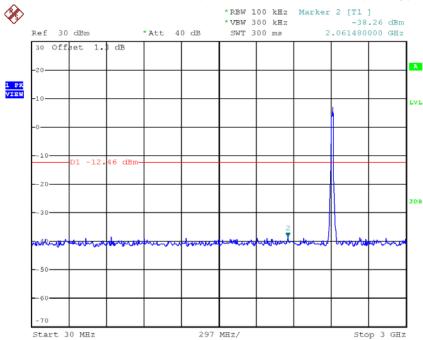


Date: 19.JUL.2018 15:41:03

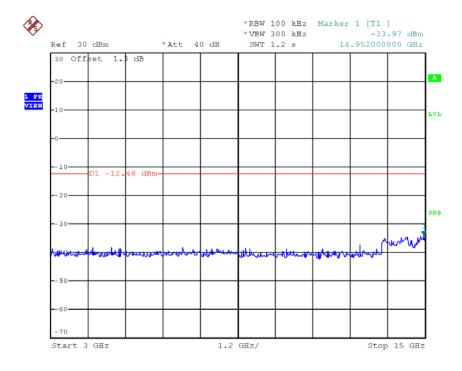








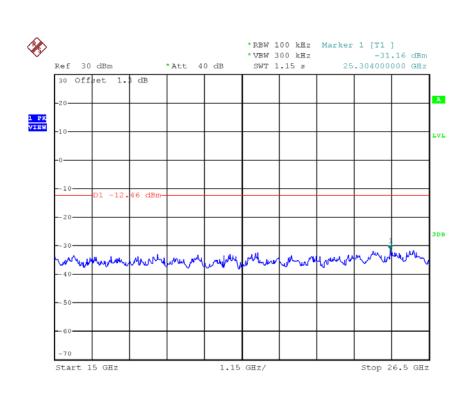
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Date: 19.JUL.2018 15:37:46

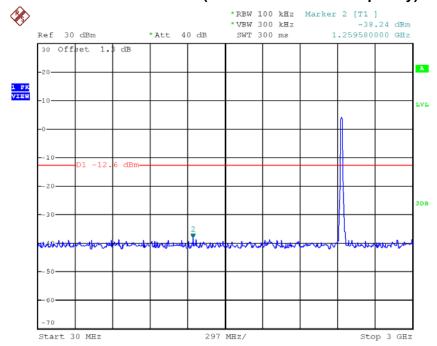






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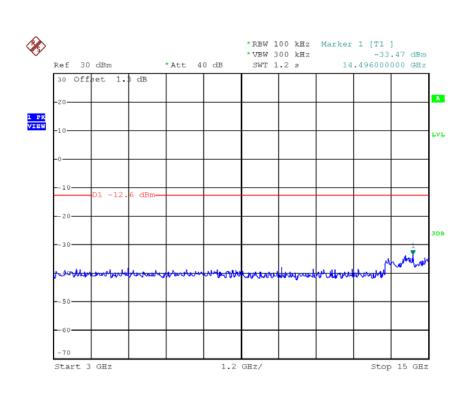
TX G mode CH06 (10 Harmonic of the frequency)



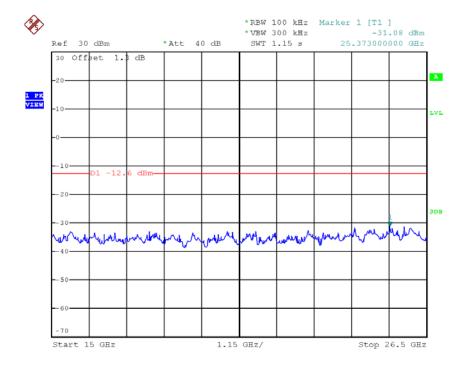
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Date: 19.JUL.2018 15:39:16

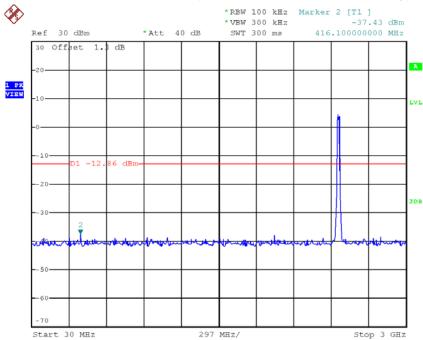


Date: 19.JUL.2018 15:39:24

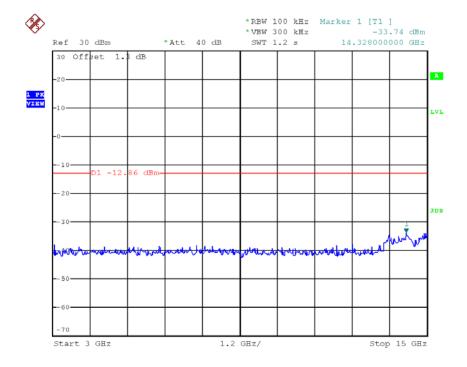








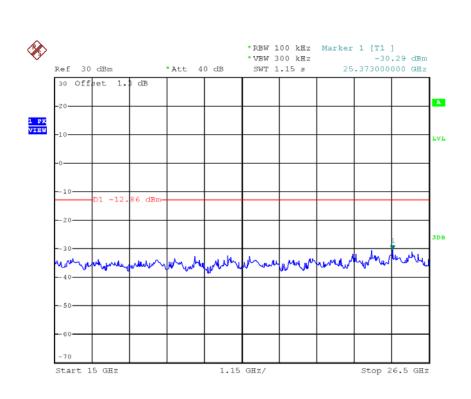
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Date: 19.JUL.2018 15:41:25







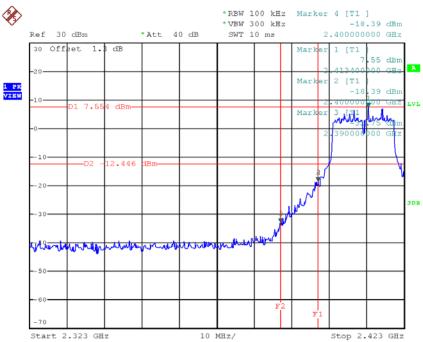
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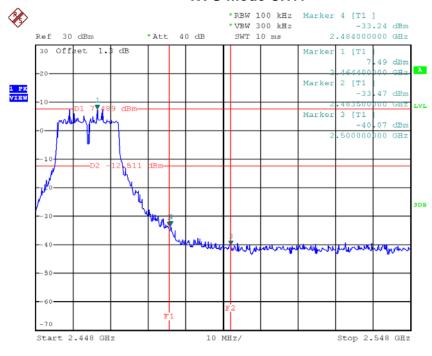
Test Mode: TX G Mode_ANT 2





Date: 19.JUL.2018 15:31:49

TX G mode CH11

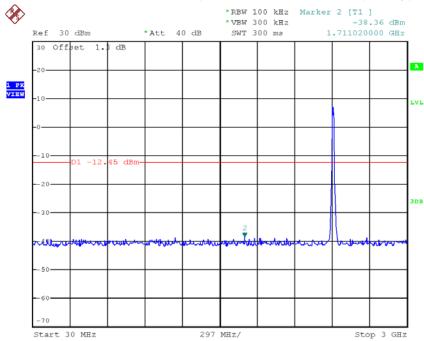


Date: 19.JUL.2018 15:35:03

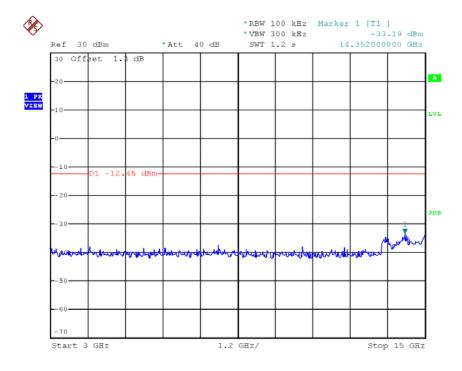




TX G mode CH01 (10 Harmonic of the frequency)



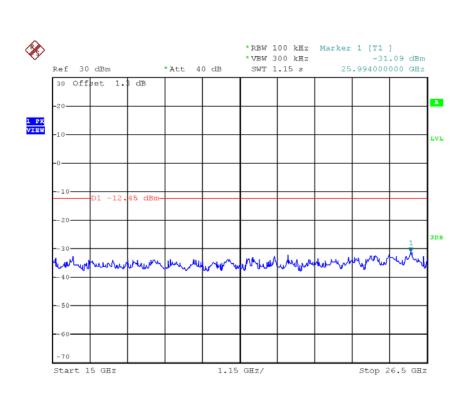
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Date: 19.JUL.2018 15:32:11

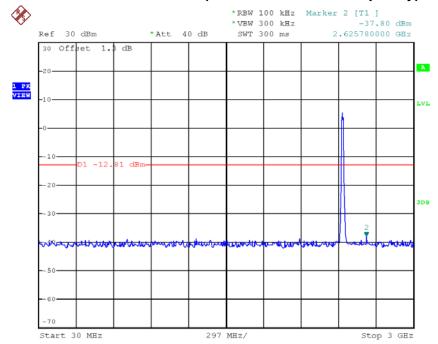






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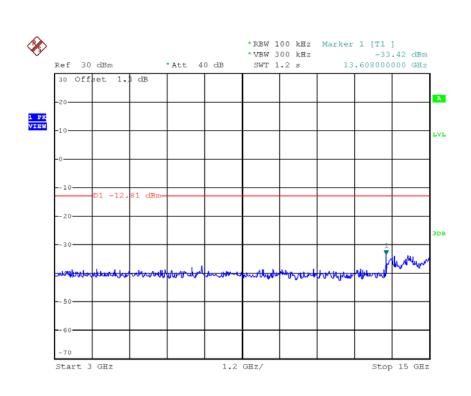
TX G mode CH06 (10 Harmonic of the frequency)



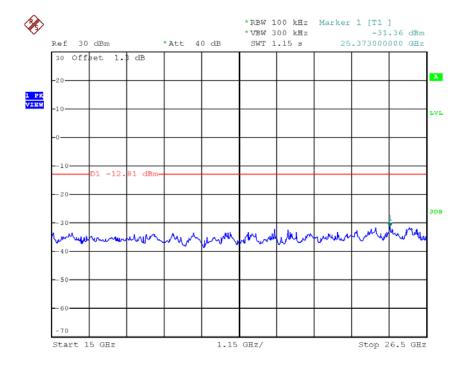
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Date: 19.JUL.2018 15:33:42

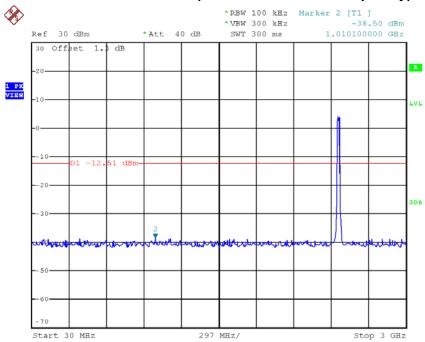


Date: 19.JUL.2018 15:33:49

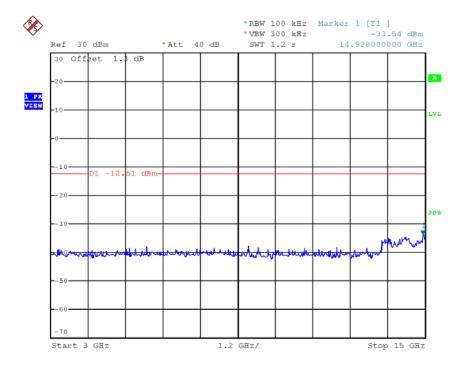








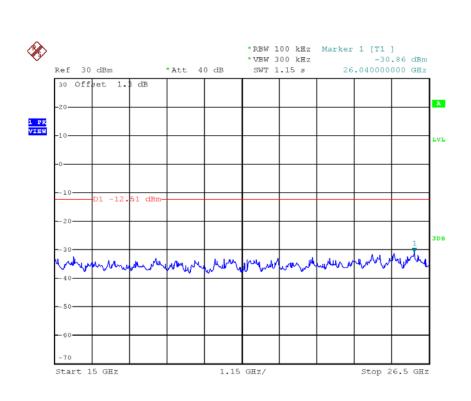
Date: 19.JUL.2018 15:35:17



Date: 19.JUL.2018 15:35:24







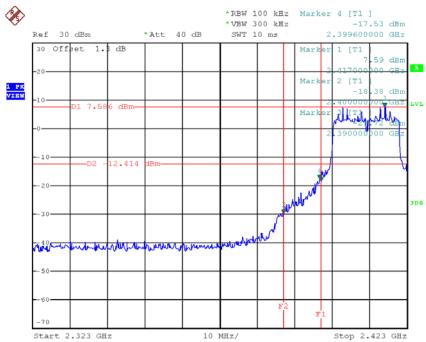
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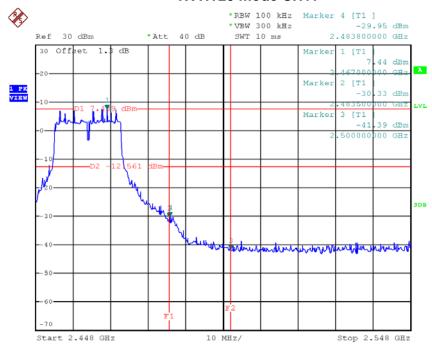
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Date: 19.JUL.2018 15:43:13

TX HT20 mode CH11



Date: 19.JUL.2018 15:46:28