

	Radio Test Report
FCC ID	: YWTWF7601U7MX
This report concerns (check one)	: 🖾 Original Grant 🗌 Class I Change 🗌 Class II Change
Applicant : She Address : 3/F	Mbps WiFi Module /F-7M02 enzhen Ogemray Tech CO.,LTD ~4/F,NO.5 Bldg, Dongwu Industrial Park, nghuan 1st Road, Longhua Town, Shenzhen,
Date of Receipt : Now Date of Test : Now Issued Date : Dec Tested by : BTL	и. 13, 2015 ~ Dec. 01, 2015 с. 02, 2015
Testing Engineer	:
Technical Manager	: David Mao (David Mao)
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### Declaration

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### Limitation

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

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REPORT ISSUED HISTORY						
Issued No.	Description	Issued Date				
BTL-FCCP-1-1511C190	Original Issue.	Dec. 02, 2015				



### **1. CERTIFICATION**

Equipment : Brand Name :	150Mbps WiFi Module N/A
Model Name :	
	Shenzhen Ogemray Tech CO.,LTD
	Shenzhen Ogemray Tech CO.,LTD
Address :	3/F~4/F,NO.5 Bldg, Dongwu Industrial Park, Donghuan 1st Road, Longhua
	Town, Shenzhen, China
Factory :	Shenzhen Ogemray Tech CO.,LTD
Address :	3/F~4/F,NO.5 Bldg, Dongwu Industrial Park, Donghuan 1st Road, Longhua
	Town, Shenzhen, China
Date of Test :	Nov. 13, 2015 ~ Dec. 01, 2015
Test Sample :	Engineering Sample
Standard(s) :	FCC Part15, Subpart C: 2014 (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-1-1511C190) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

### 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247), Subpart C: 2014							
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					
15.209/15.205	Transmitter Radiated Emissions	PASS					

### NOTE:

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

### 2.1 TEST FACILITY

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

### 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  $U_{cisor}$  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)
	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	Н	3.57
DG-CB03		30MHz ~ 200MHz	V	3.82
(3m)		30MHz ~ 200MHz	Н	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	Н	4.06

	Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
			1GHz ~ 18GHz	V	3.12
	DG-CB03	CISPR	1GHz ~ 18GHz	Н	3.68
	(3m)	CISPR	18GHz ~ 40GHz	V	4.15
			18GHz ~ 40GHz	Н	4.14

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

### **3. GENERAL INFORMATION**

### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	150Mbps WiFi Module		
Brand Name	N/A		
Model Name	GWF-7M02		
Model Difference	NA		
	Operation Frequency	2412~2462 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 150 Mbps	
	Output Power (Max.) 802.11b: 20.48 dBm 802.11g: 24.09 dBm 802.11n(20MHz): 23.04 dBm 802.11n(40MHz): 22.55 dBm		
Power Source	Supplied from host system	m	
Power Rating	EUT I/P: DC 5V		

### 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 – CH11 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		

### 3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Printed	N/A	2	TX/RX

### **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	Normal Link

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	Normal Link

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	

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 (6.5Mbps)
  - 802.11n HT40 mode : BPSK (13.5Mbps)
  - 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%.

### 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		RT3x7xQA	
Frequency (MHz)	2412	2437	2462
802.11b	3	5	7
802.11g	0	1	2
802.11n (20MHz)	0	0	1
Frequency	2422	2437	2452
802.11n (40MHz)	1	2	3

# 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.
А	NOTEBOOK	DELL	INSPIRON 1420	DOC	JX193A01SDC2

ltem	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.8m	Fixture Cable

### 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.5	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

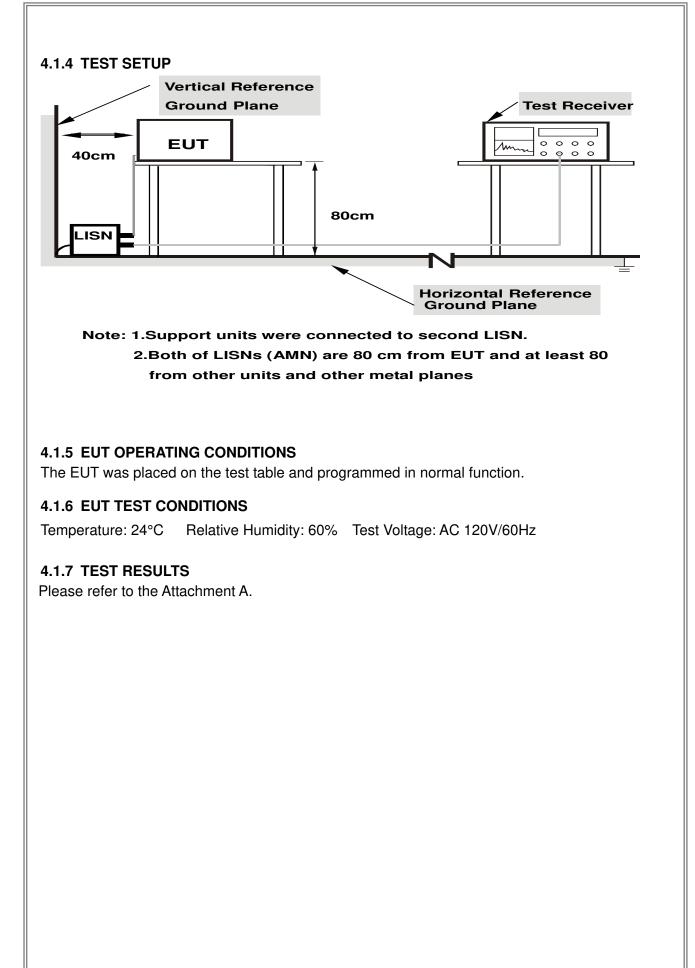
### 4.1.2 TEST PROCEDURE

- 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





### 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)

	(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

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

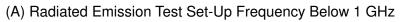
### 4.2.2 TEST PROCEDURE

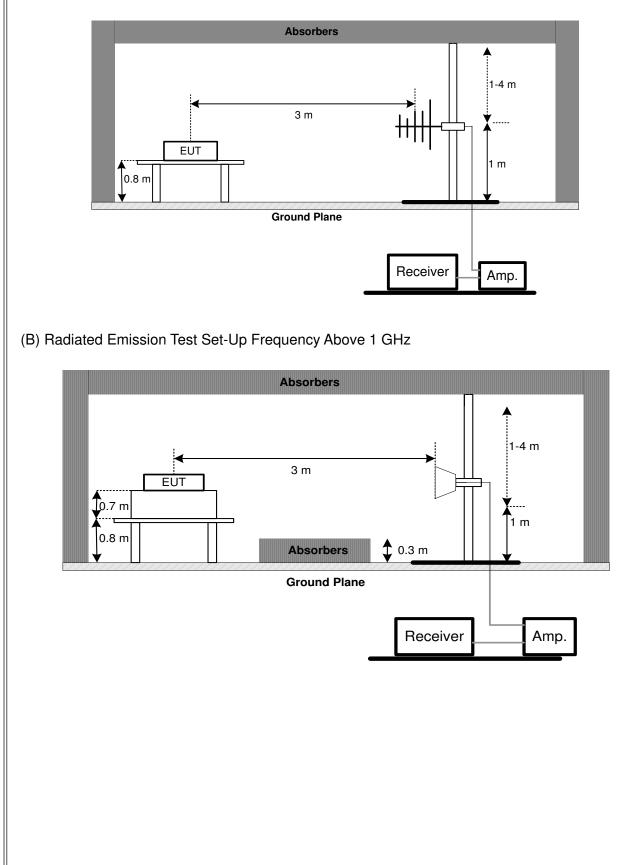
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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.
- e. 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)
- f. 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)
- g. For the actual test configuration, please refer to the related Item -EUT Test Photos.

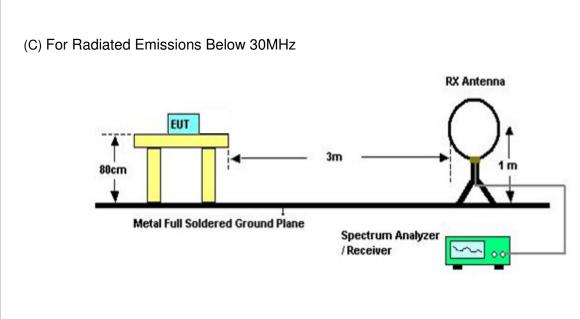
### 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

### 4.2.4 TEST SETUP







### 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### **4.2.6 EUT TEST CONDITIONS**

Temperature: 24°C Relative Humidity: 52% Test Voltage: AC 120V/60Hz

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### 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.

### 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: 24°C Relative Humidity: 50% Test Voltage: AC 120V/60Hz

### 5.1.6 TEST RESULTS

Please refer to the Attachment E.

### 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 v03r03.

### 6.1.2 DEVIATION FROM STANDARD

No deviation.

### 6.1.3 TEST SETUP



### 6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

### 6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 50% Test Voltage: AC 120V/60Hz

### 6.1.6 TEST RESULTS

Please refer to the Attachment F.

### 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

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: 24°C Relative Humidity: 50% Test Voltage: AC 120V/60Hz

### 7.1.6 TEST RESULTS

Please refer to the Attachment G.

### 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (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: 24°C Relative Humidity: 50% Test Voltage: AC 120V/60Hz

### 8.1.6 TEST RESULTS

Please refer to the Attachment H.

### 9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	LISN	EMCO	3816/2	0052765	Mar. 28, 2016		
2	LISN	R&S	ENV216	101447	Mar. 28, 2016		
3	Test Cable	emci	RG223(9KHz -30MHz)	C_17	Mar. 13, 2016		
4	EMI Test Receiver	R&S	ESCS30	826547/022	Mar. 28, 2016		
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 28, 2016		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A		

		Radiated Emi	ssion Measurem	ent	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 28, 2016
5	Controller	СТ	SC100	N/A	N/A
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 28, 2016
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
9	Test Cable	emci	EMC104-SM-S M-10000(1GHz -26.5GHz)	C-68	Jun. 28, 2016
10	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016

	6dB Bandwidth Measurement					
ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016	

	Peak Output Power Measurement						
Item Kind of Equipment Manufacturer Type No. Serial No. Cali					Calibrated until		
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 28, 2016		
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 28, 2016		

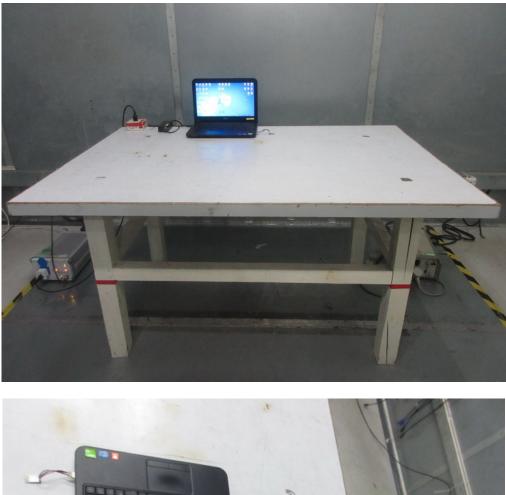
	Antenna Conducted Spurious Emission Measurement					
ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016	

	Power Spectral Density Measurement					
ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016	

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

### **10. EUT TEST PHOTO**

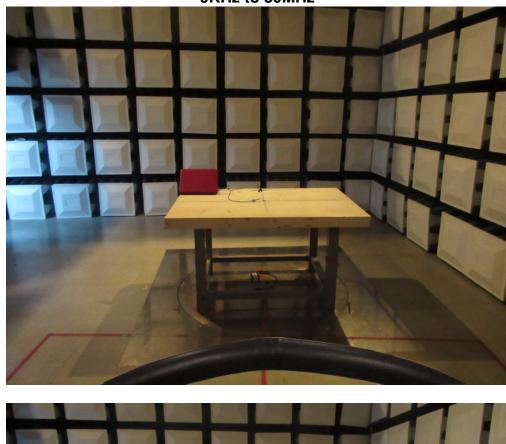
**Conducted Measurement Photos** 





### **Radiated Measurement Photos**

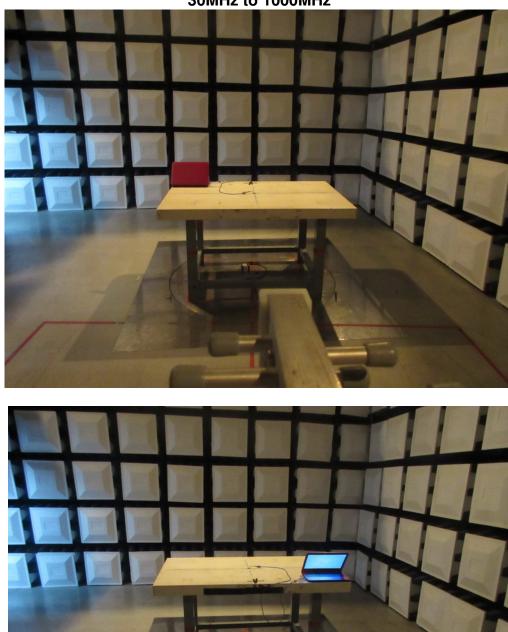
9KHz to 30MHz





### **Radiated Measurement Photos**

30MHz to 1000MHz



### **Radiated Measurement Photos**

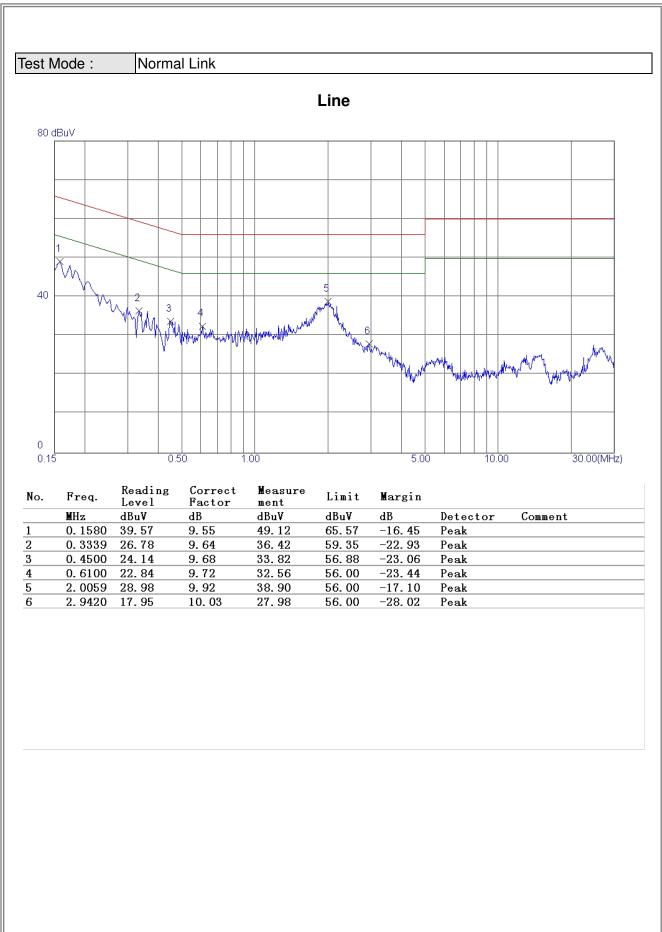
Above 1000MHz



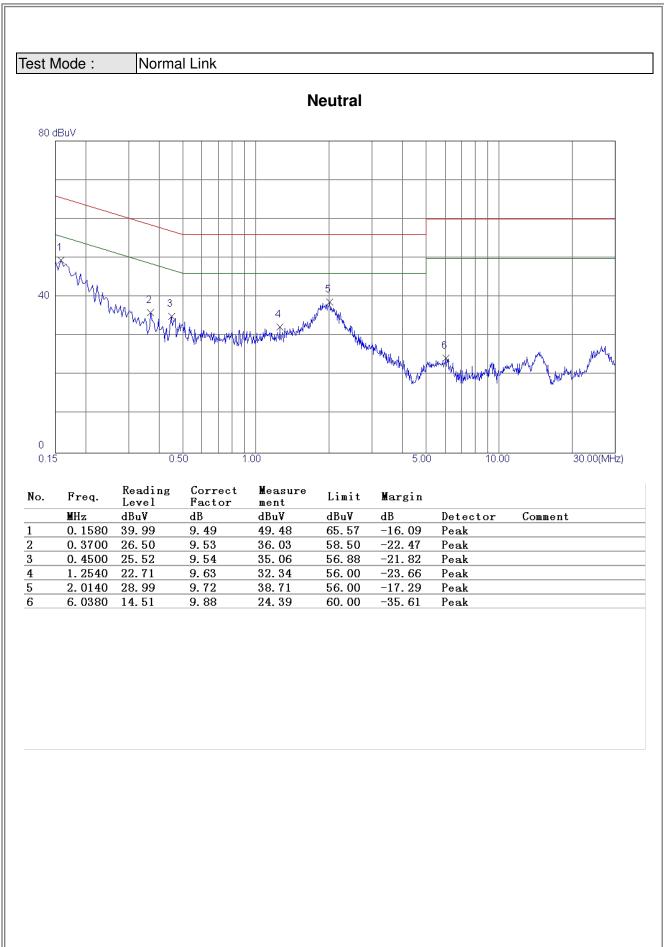


## **ATTACHMENT A - CONDUCTED EMISSION**







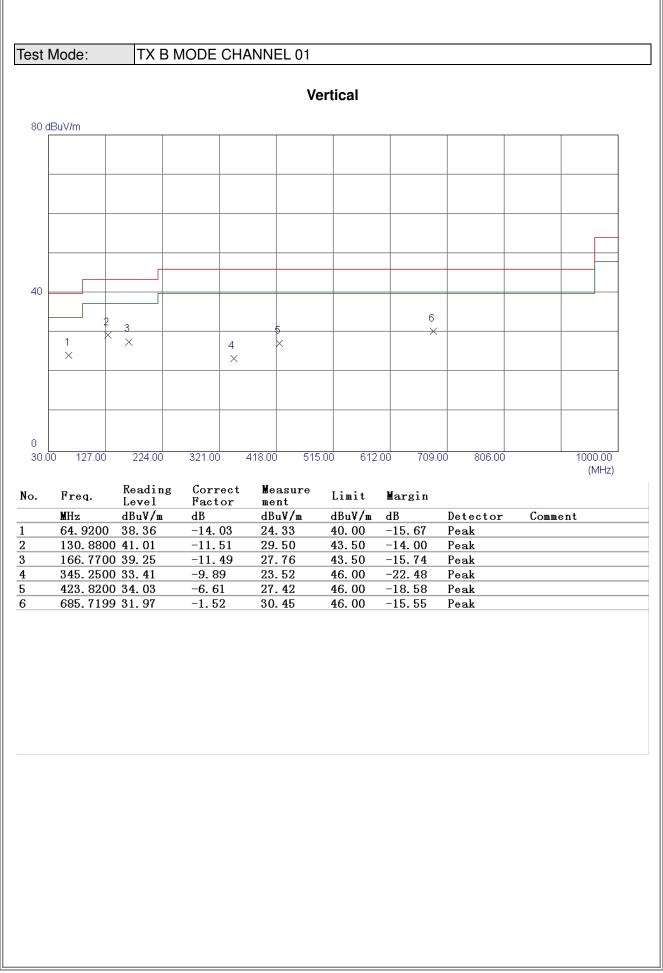


# ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

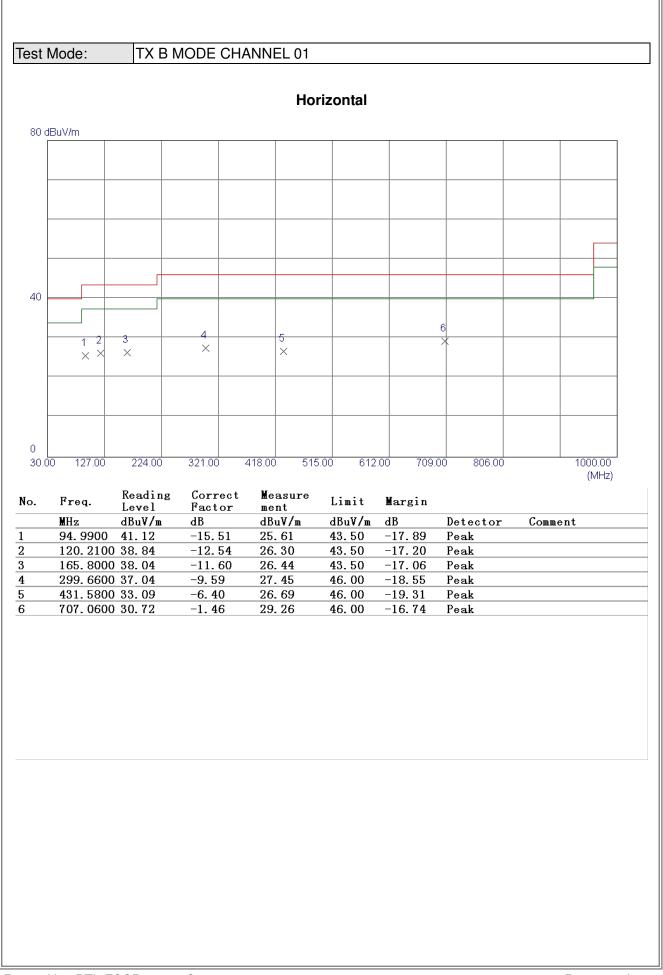
est Mode:	ΤX	B MODE CHA	NNEL 01				
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0116	0°	13.34	24.8320	38.1720	126.3151	-88.1431	AVG
0.0116	0°	14.25	24.8320	39.0820	146.3151	-107.2331	PEAł
0.0257	0°	6.38	23.9390	30.3190	119.4056	-89.0866	AVG
0.0257	0°	8.23	23.9390	32.1690	139.4056	-107.2366	PEAł
0.0379	0°	3.26	23.1663	26.4263	116.0314	-89.6051	AVG
0.0379	0°	5.36	23.1663	28.5263	136.0314	-107.5051	PEA
0.0546	0°	1.42	22.3080	23.7280	112.8604	-89.1324	AVG
0.0546	0°	2.53	22.3080	24.8380	132.8604	-108.0224	PEA
0.5024	0°	19.36	19.8077	39.1677	73.5832	-34.4156	QP
1.9573	0°	23.6	19.5043	43.1043	69.5400	-26.4357	QP
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0137	90°	13.35	24.3000	37.6500	124.8698	-87.2198	AVG
0.0137	90°	14.71	24.3000	39.0100	144.8698	-105.8598	PEAł
0.0253	90°	7.41	23.9643	31.3743	119.5418	-88.1675	AVG
0.0253	90°	8.77	23.9643	32.7343	139.5418	-106.8075	PEAł
0.0416	90°	5.31	22.9320	28.2420	115.2224	-86.9804	AVG
0.0416	90°	6.33	22.9320	29.2620	135.2224	-105.9604	PEAł
0.0564	90°	1.46	22.2720	23.7320	112.5786	-88.8466	AVG
0.0564	90°	2.53	22.2720	24.8020	132.5786	-107.7766	PEAł
0.6217	90°	22.12	20.1894	42.3094	71.7326	-29.4232	QP
2.0522	90°	24.41	19.4687	43.8787	69.5400	-25.6613	QP

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

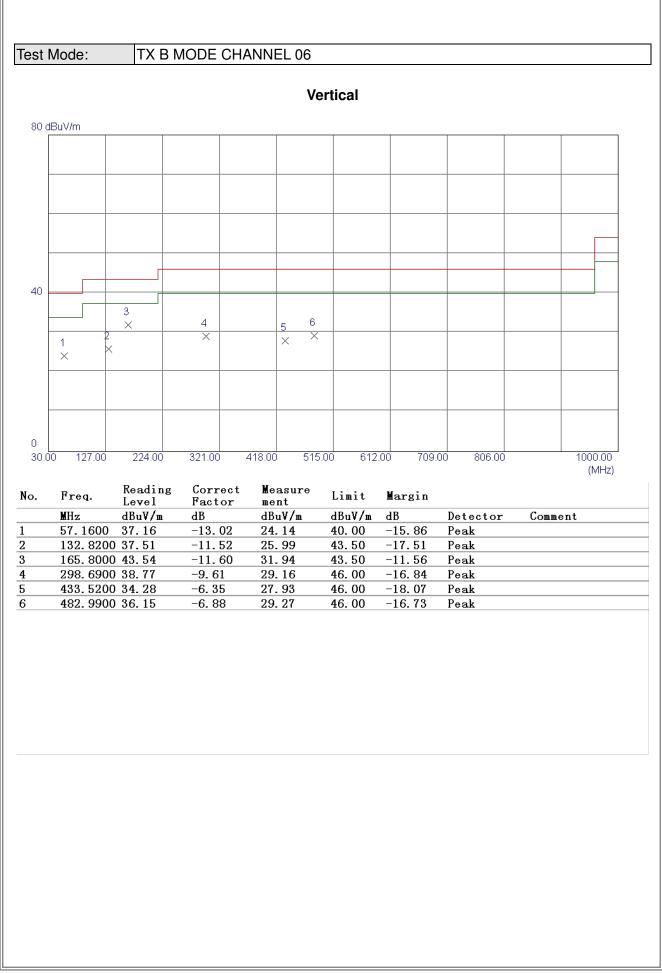




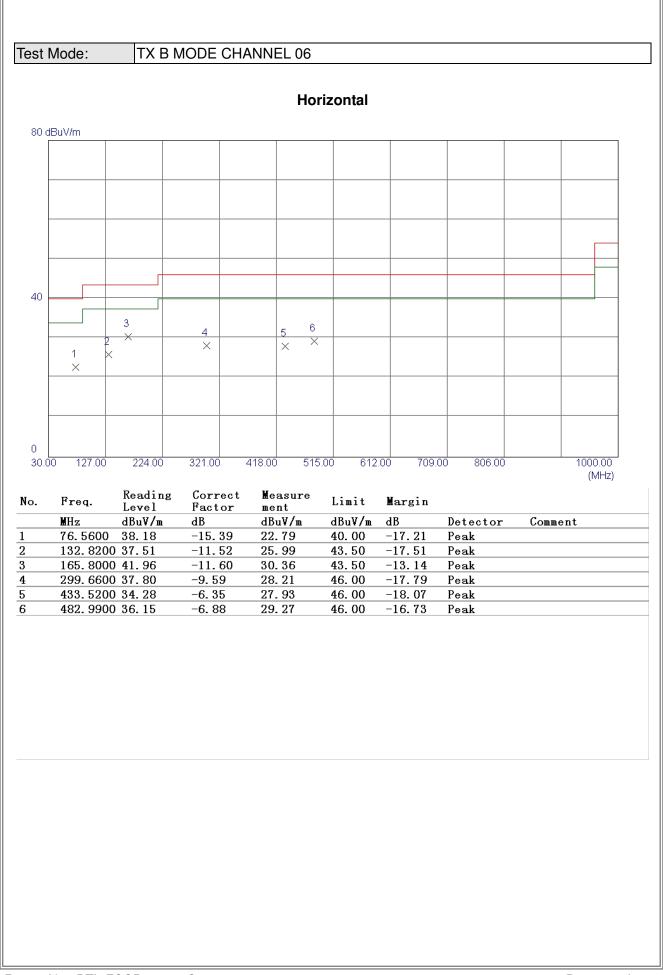




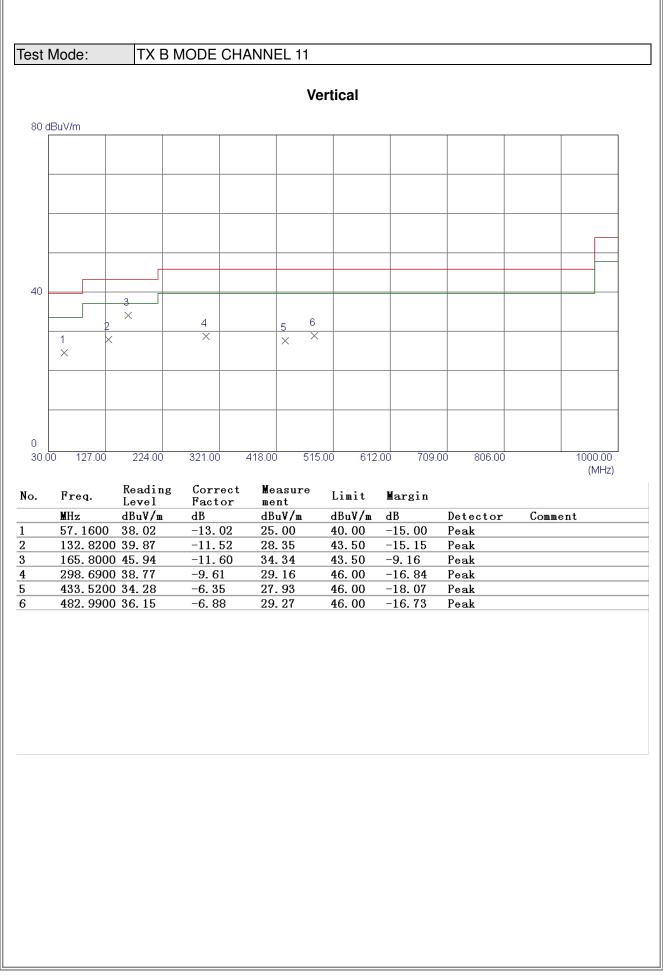




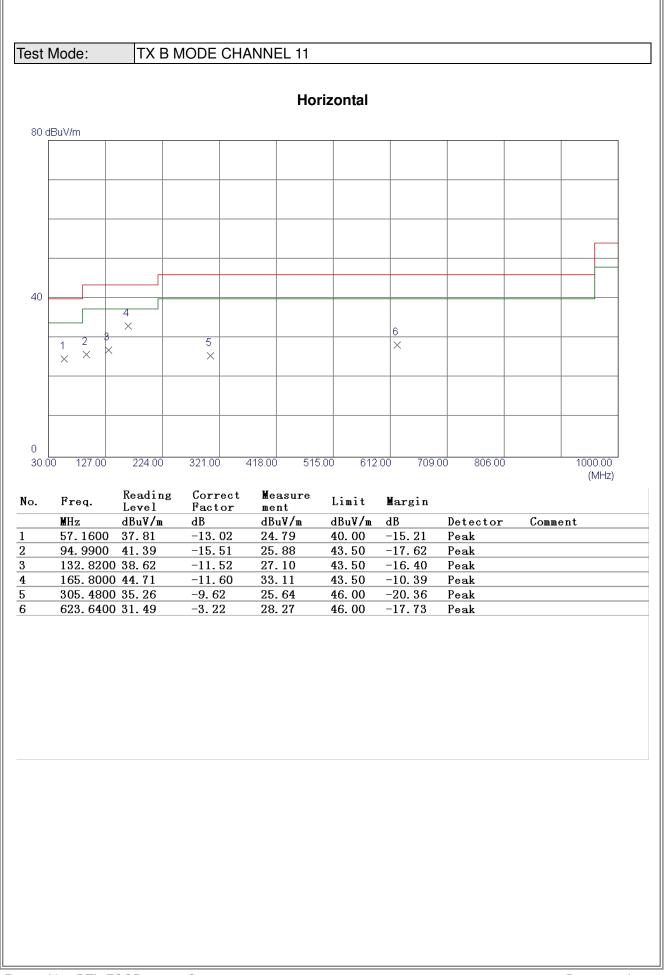






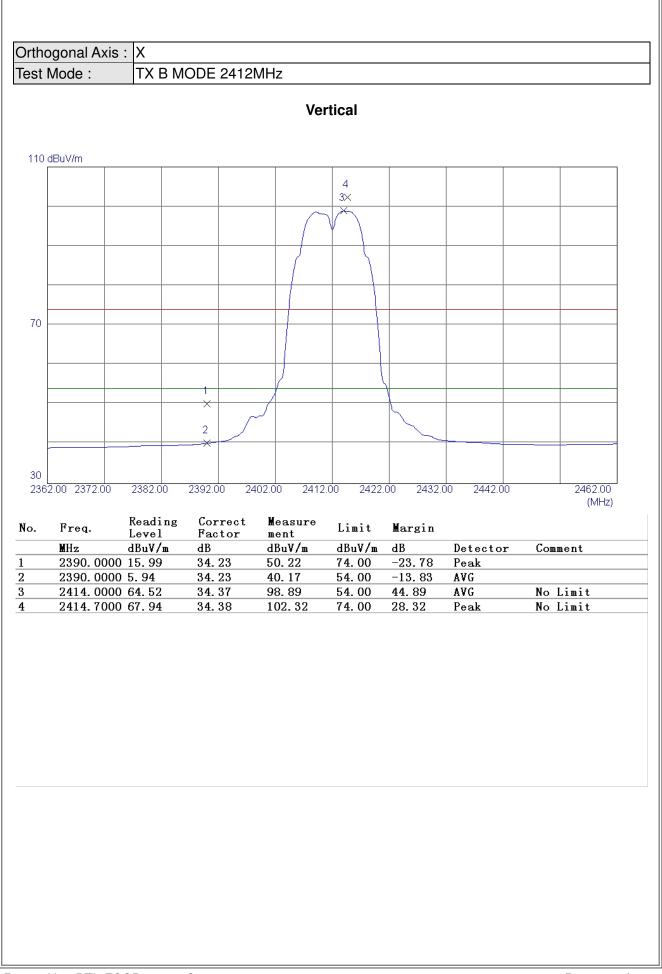




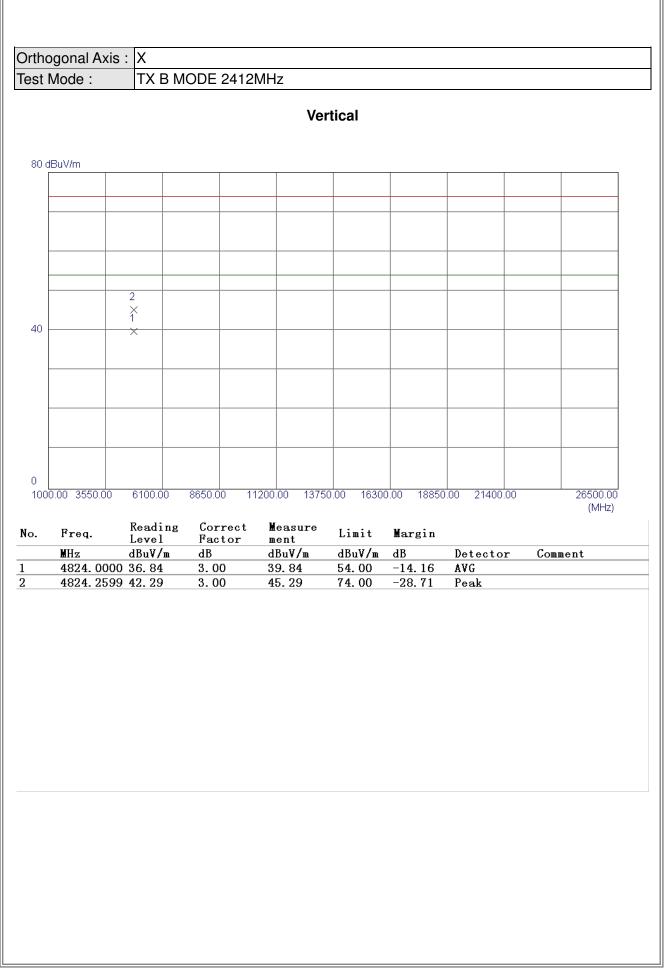


## ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

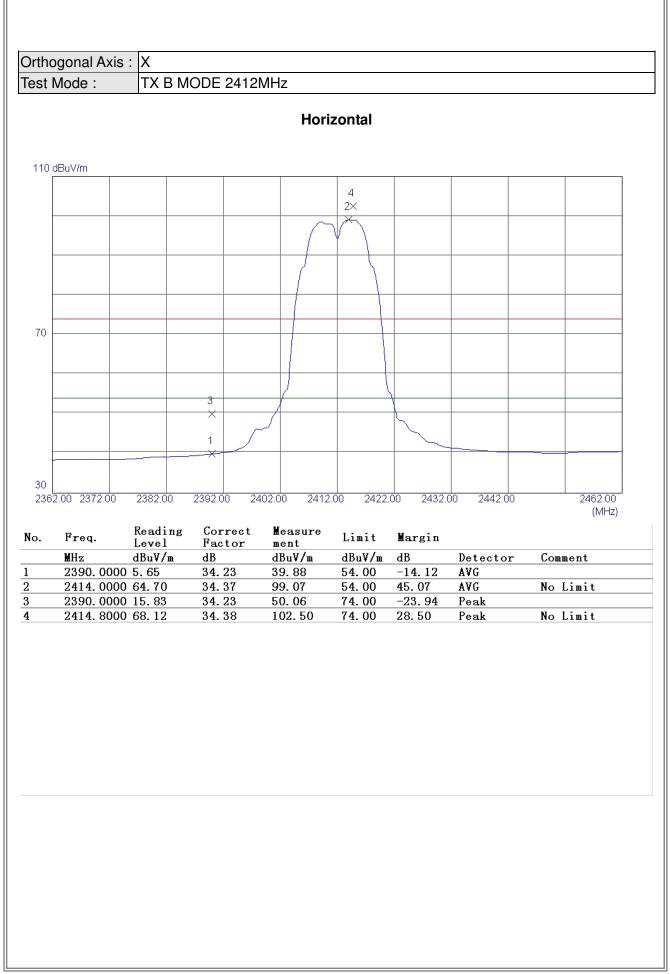




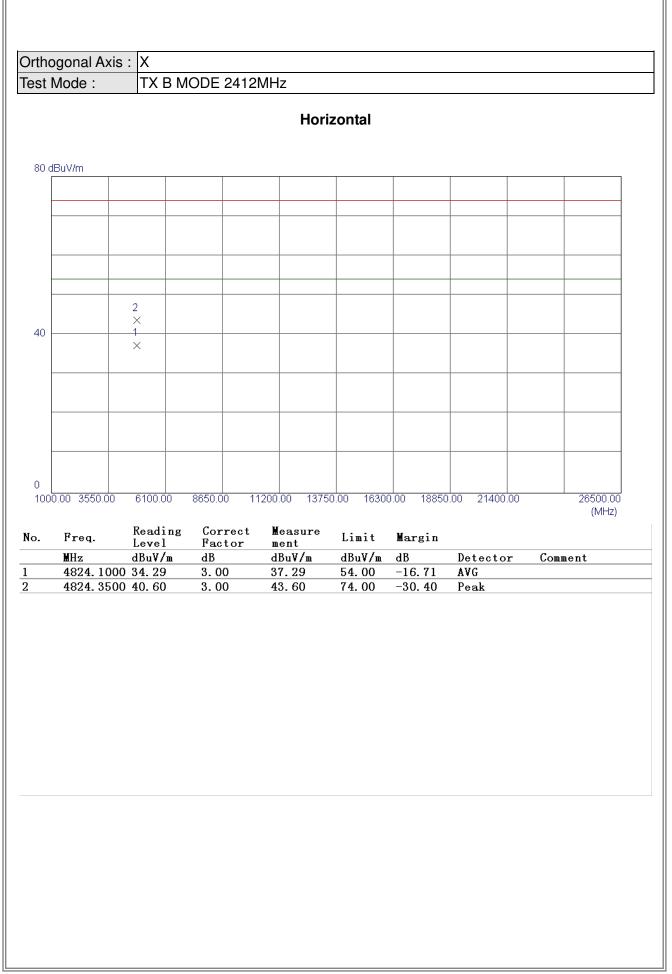




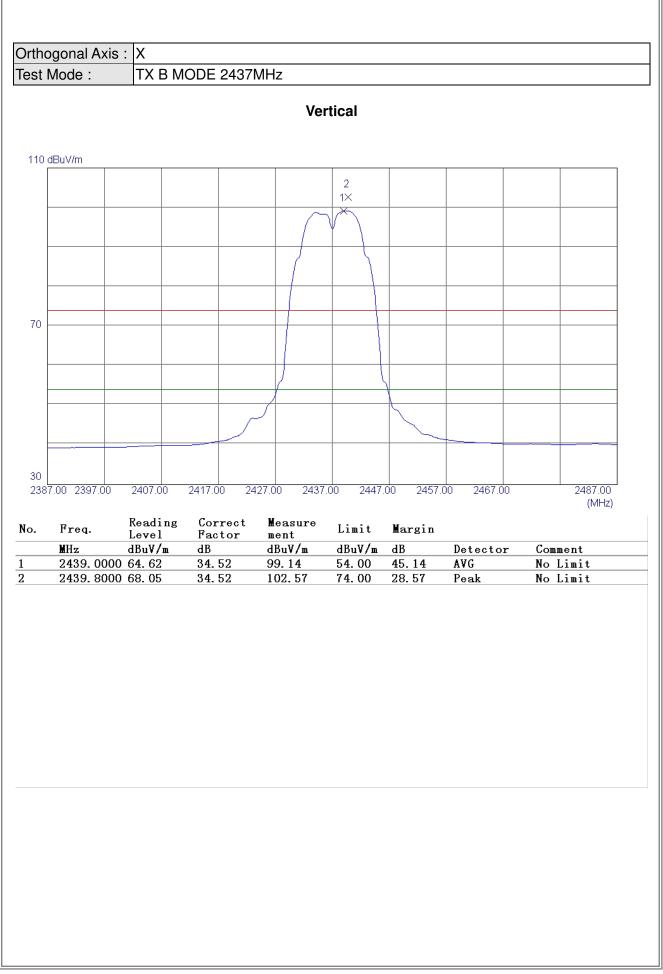








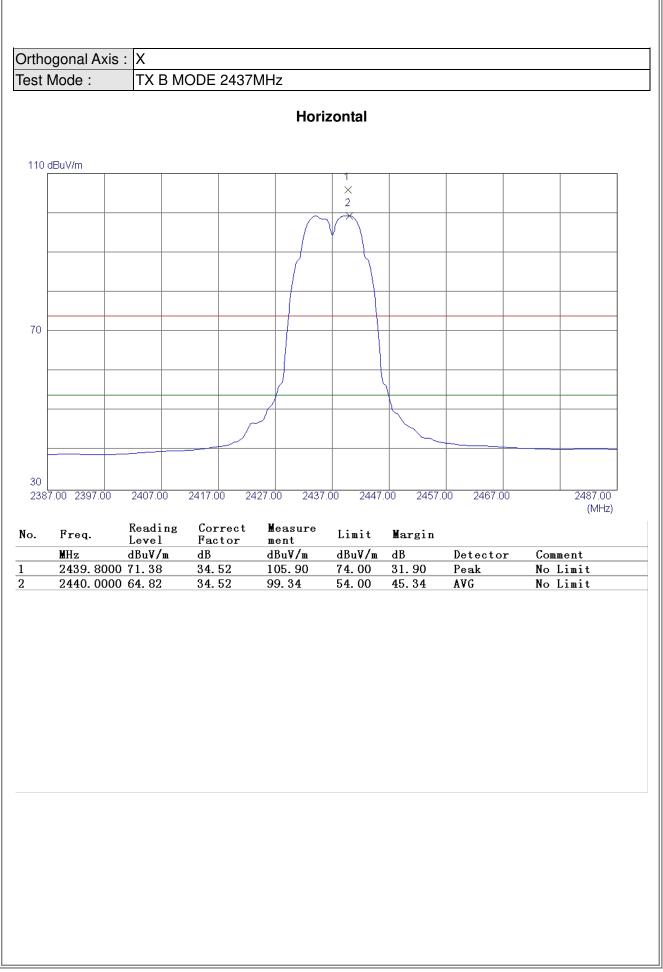




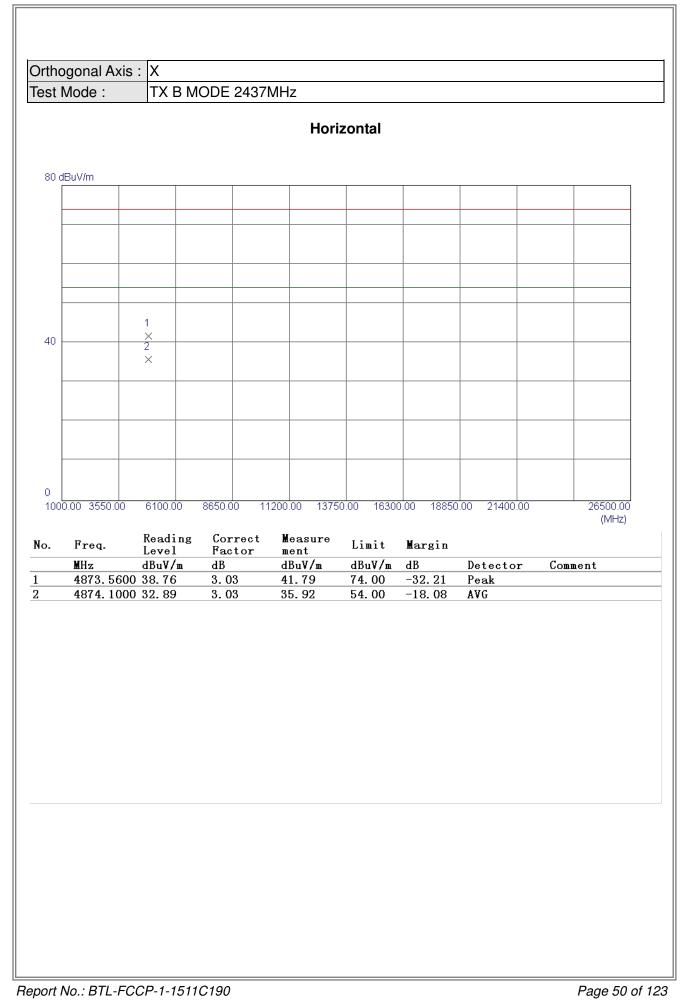


st N	Node :	TX B M	ODE 2437	MHz				
				Ver	tical			
30 dE 	BuV/m							
10		2 ×						
40  -		×						
0	0.00 3550.00	6100.00	8650.00 11	200.00 13750	0.00 1630	0.00 18850	.00 21400.00	26500.00
1000						0.000 100000	.00 21400.00	(MHz)
	Freq. MHz	Reading Level	Correct Factor	Measure ment	Limit	Margin dB	D. 4 4	Comment
		dBuV/m 34.54	dB 3.03	dBuV/m 37.57	dBu¥/m 54.00	-16.43	Detector AVG	Comment
			3.03	43.15	74.00	-30. 85	Peak	
	4874. 2000	40.12						
		40. 12						
		40.12						
		40.12						
		40.12						
		40.12						
		40.12						
		40.12						
		40.12						
		40.12						

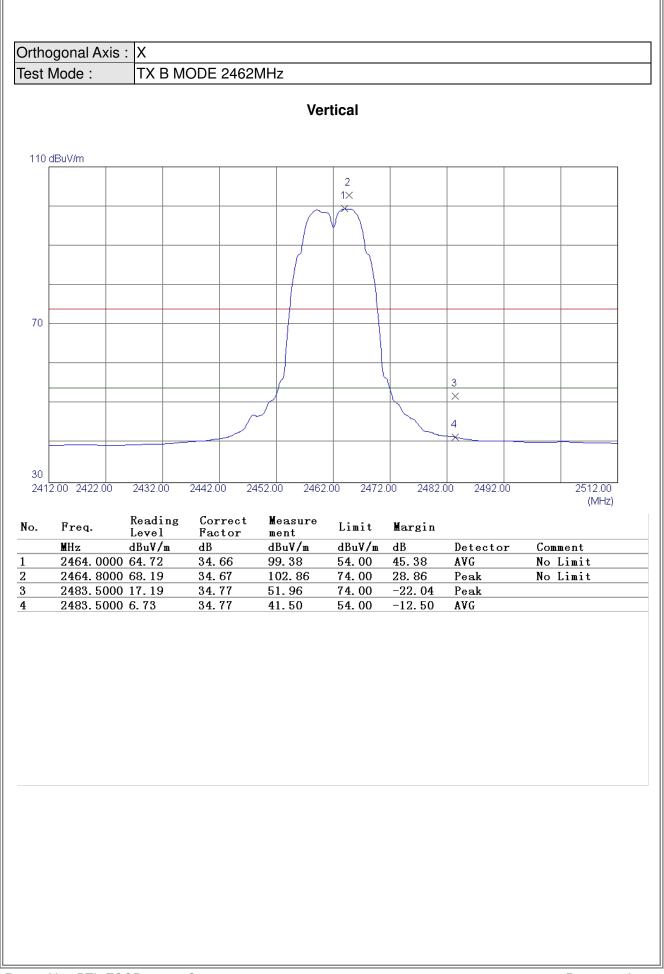








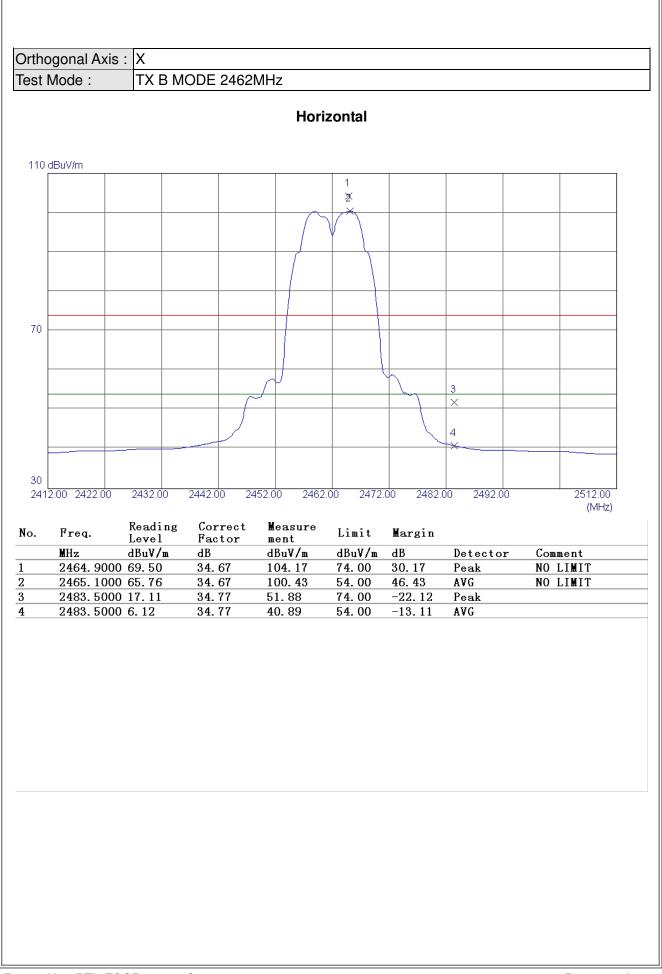






st Mo	onal Axis ode :		B MOD	E 246	62MHz							
						Vei	rtical					
30 dBu\	V/m											
10		2 ×										
10		1 ×										
)	0 3550.00	6100.00	) 865	0.00	11200.00	1375	0.00 1630	0.00 18850	0.00 21400	.00		26500.00 (MHz)
100 <u>0.00</u>		Readi	ng C	orrect	t Mea	.sure			0.00 21400	.00		26500.00 (MHz)
1000.000 • F	<sup>7</sup> req. Hz	Readi Level dBuV/1	ng C Fi n dl	orrect actor B	t Mea men dBu	.sure t V/m	Limit dBuV/m	Margin dB	Detecto		Comme	(MHz)
1000.00 - F <u>M</u>	<sup>7</sup> req.	Readi Level dBuV/1 33.02	ng C F <u>n dl</u> 3.	orrect actor	t Mea men	.sure t V/m 07	Limit	Margin			Comme	(MHz)
1000.00 - F <u>M</u>	<sup>7</sup> req. [Hz 1924. 0000	Readi Level dBuV/1 33.02	ng C F <u>n dl</u> 3.	orrect actor B .05	t Mea men dBu 36.	.sure t V/m 07	Limit dBuV/m 54.00	Margin dB -17.93	Detecto AVG		Comme	(MHz)

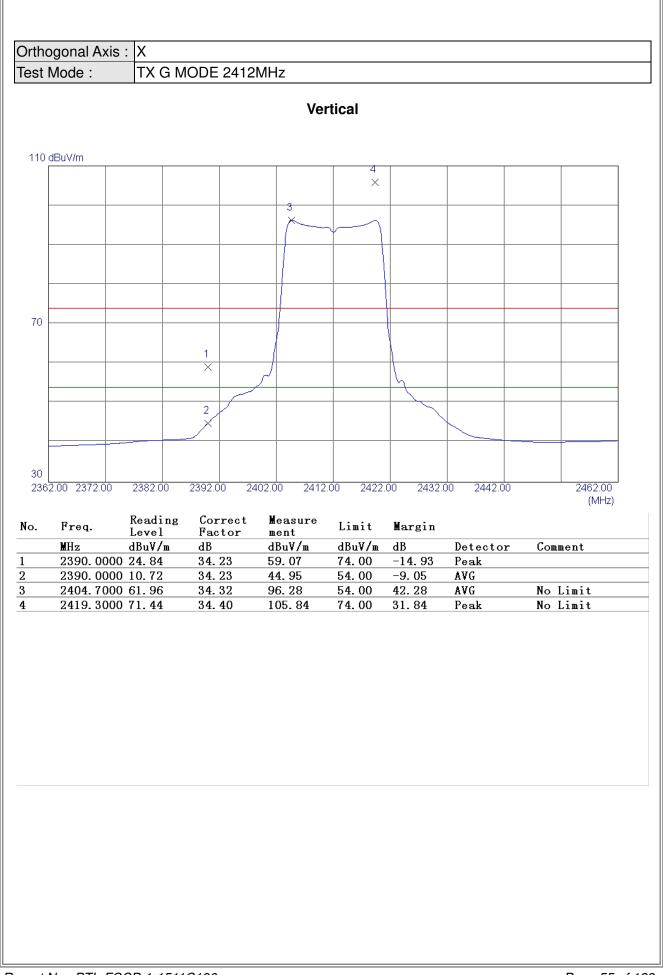






st N	Mode :	IXBI	MODE 2462	MHz				
				Hori	zontal			
80 dI	BuV/m							
ŀ		1						
40		× 2						
		×						
+								
0 1000	0.00 3550.00	6100.00	8650.00 1	1200.00 1375	0.00 1630	0.00 18850	0.00 21400.00	26500.00
-	Freq.	Reading	Correct	Measure	Limit	Margin		(MHz)
_	MHz	Level dBuV/m	Factor dB	ment dBuV/m	dBuV/m	dB	Detector	Comment
			3.05	42.66	74.00	-31.34	Peak	
	4923.9800 4924.1400	39.61	3. 05	35.88	54.00	-18.12	AVG	
	4923.9800	39.61		35.88	54.00	-18. 12	AVG	
	4923.9800	39.61		35.88	54.00	-18. 12	AVG	
	4923.9800	39.61		35.88	54.00	-18. 12	AVG	
- 	4923.9800	39.61		35.88	54.00	-18. 12	AVG	
- 	4923.9800	39.61		35.88	54.00	-18. 12	AVG	
	4923.9800	39.61		35.88	54.00	-18. 12	AVG	

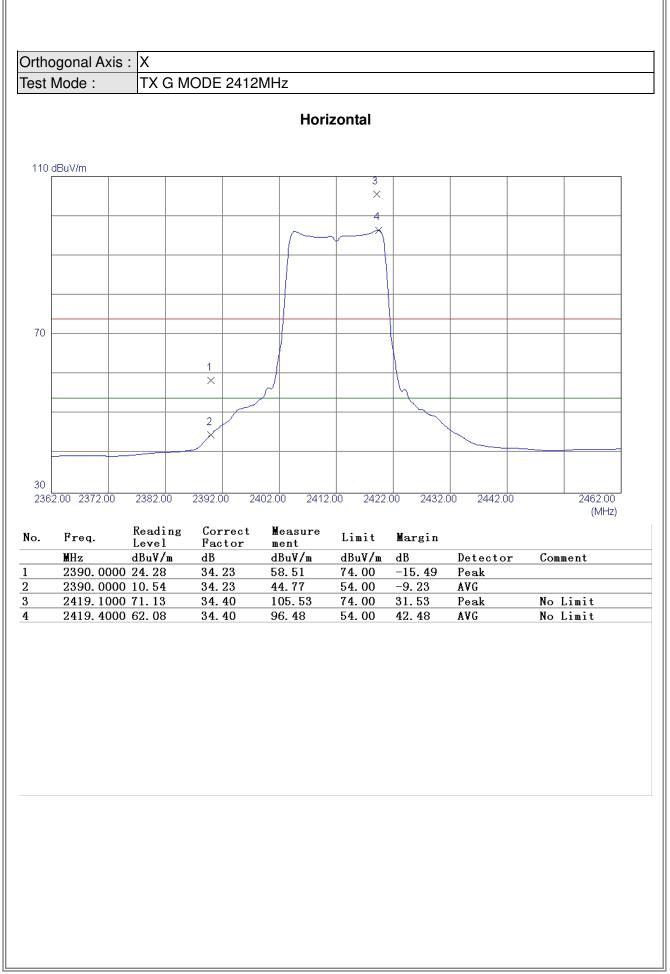




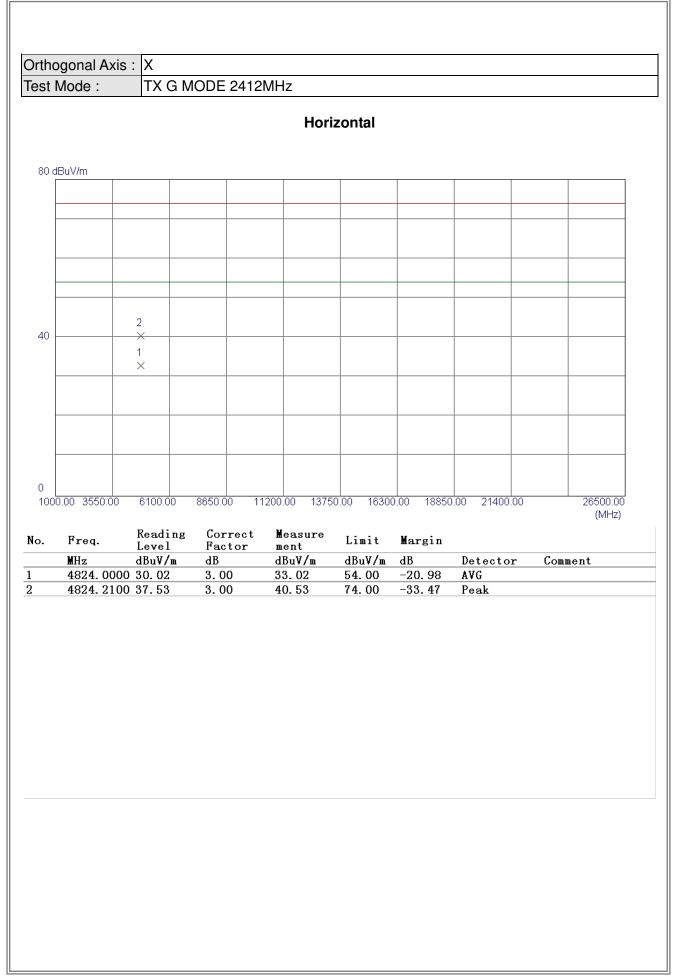


	Mode :		MODE 2412						
				Ve	rtical				
80 dl	BuV/m								
╞									-
40 -		2 ×					ļ		
		1 ×							
-							<u> </u>		
F									
								1	
	00 3550.00	6100.00	8650.00 1	1200.00 1375	0.00 1630		00 21400 0	0 26500	00
	0.00 3550.00	6100.00		1200.00 1375	0.00 1630	0.00 18850	0.00 21400.00	0 26500. (MH	
1000	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		(MH	
1000	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	
000	Freq.	Reading Level dBuV/m 0 31.57	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin	Detector	(MH	
000	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	
1000	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	
1000	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	
1000	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	
1000	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	
1000	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	
1000	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	
0 1000 	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	
1000	Freq. MHz 4824.2000	Reading Level dBuV/m 0 31.57	Correct Factor dB 3.00	Measure ment dBuV/m 34.57	Limit dBuV/m 54.00	Margin dB -19.43	Detector AVG	(MH	

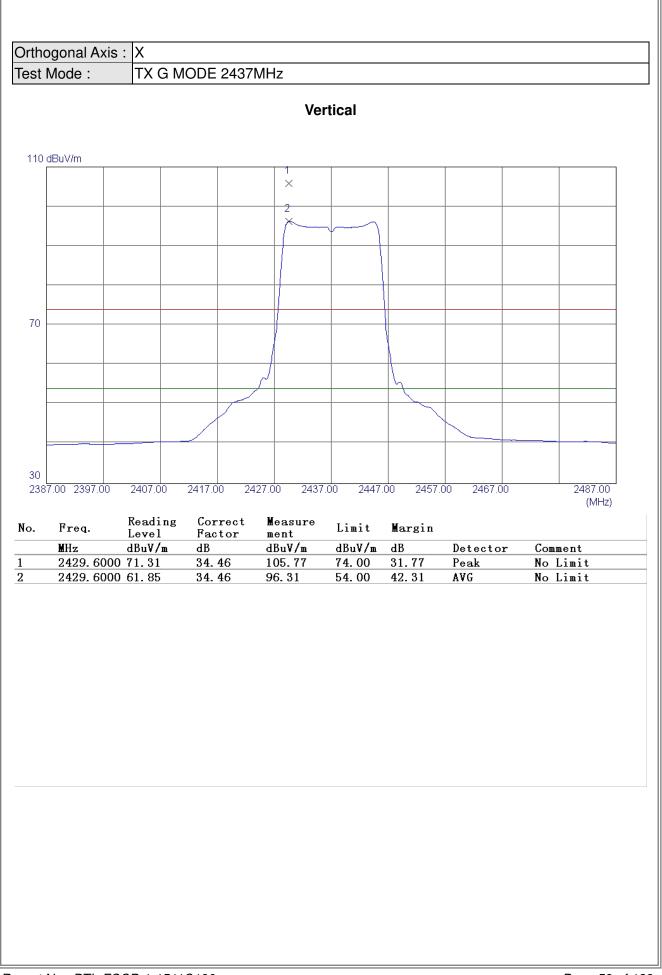








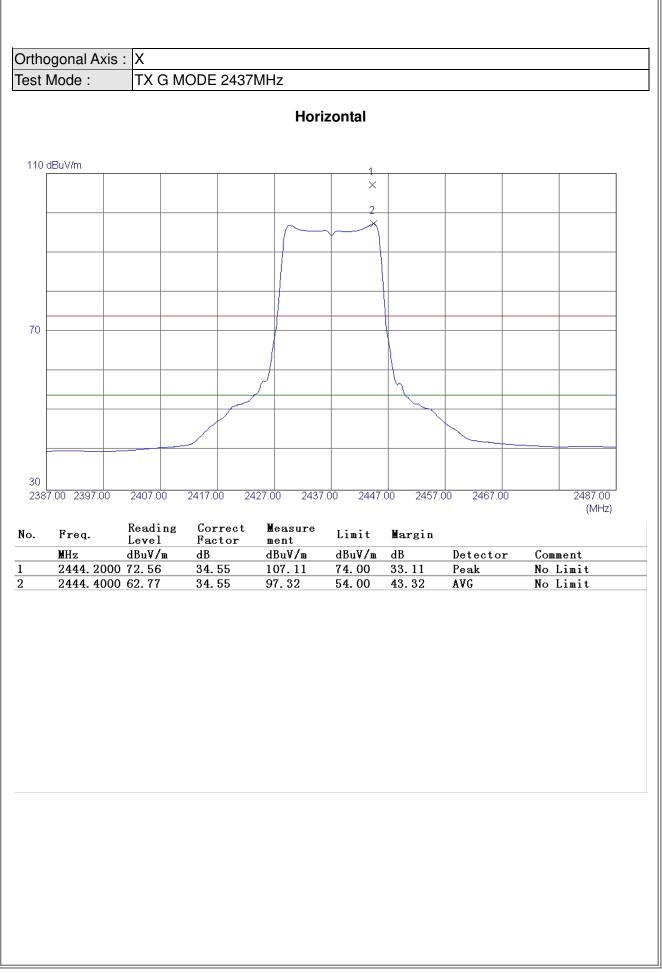




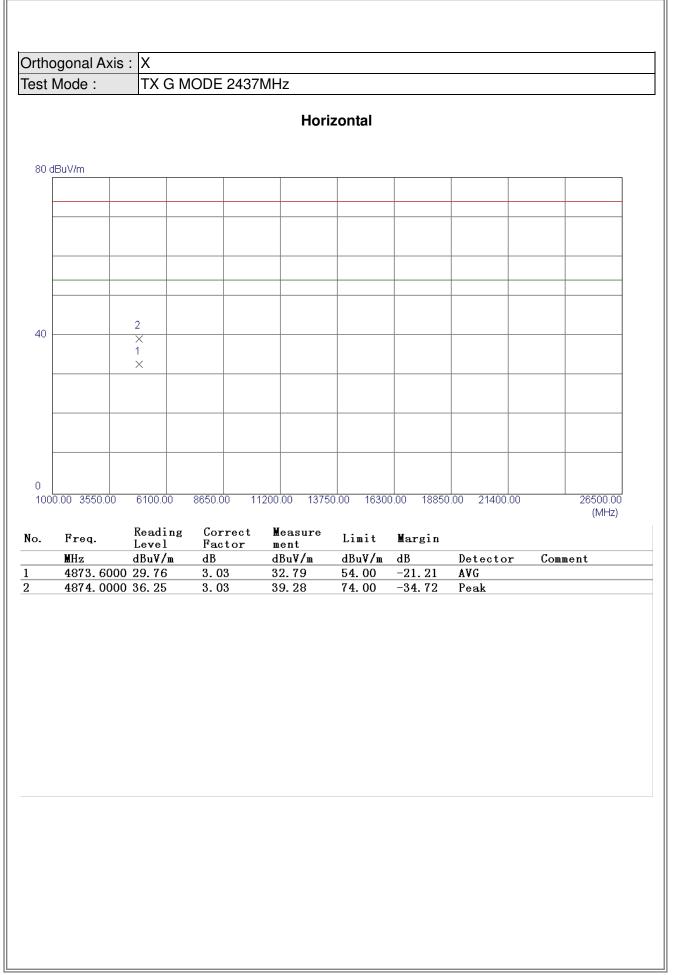


οι IV	/lode :			437MHz					
				Ve	ertical				
30 dE	3uV/m								
_									
40 -		2 ×							
		1 ×							
-									
							1 1		
_									
	00 3550.00	6100.00	8650.00	11200.00 137	50.00 1630	0.00 18850	00 21400 00	26500	
	.00 3550.00	6100.00	8650.00		50.00 1630	0.00 18850	0.00 21400.00	) 26500. (MH	
1000	Freq.	Reading Level	g Corre Facto	ect Measure or ment	Limit	Margin		(MH	
	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG		
000	Freq. MHz	Reading Level dBuV/m 31.08	g Corre Facto dB	ect Measure or ment dBuV/m	Limit dBuV/m	Margin dB	Detector	(MH	
1000	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG	(MH	
1000	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG	(MH	
1000	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG	(MH	
1000	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG	(MH	
1000	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG	(MH	
1000	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG	(MH	
1000	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG	(MH	
1000	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG	(MH	
1000	Freq. MHz 4873.1500	Reading Level dBuV/m 31.08	g Corre Facto dB 3.03	ect Measure pr ment dBuV/m 34.11	Limit dBuV/m 54.00	Margin dB -19.89	Detector AVG	(MH	

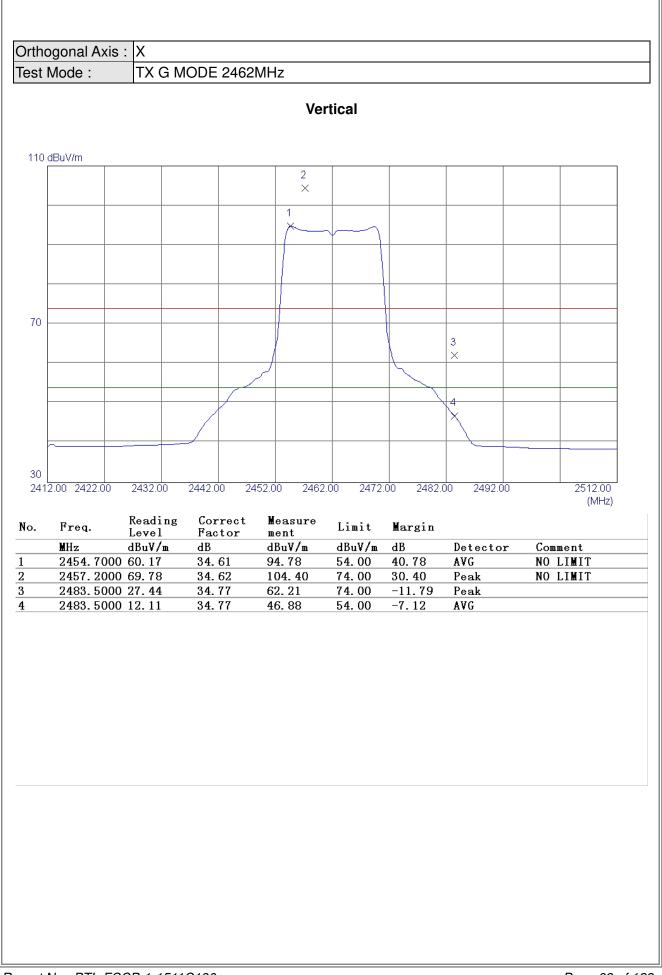








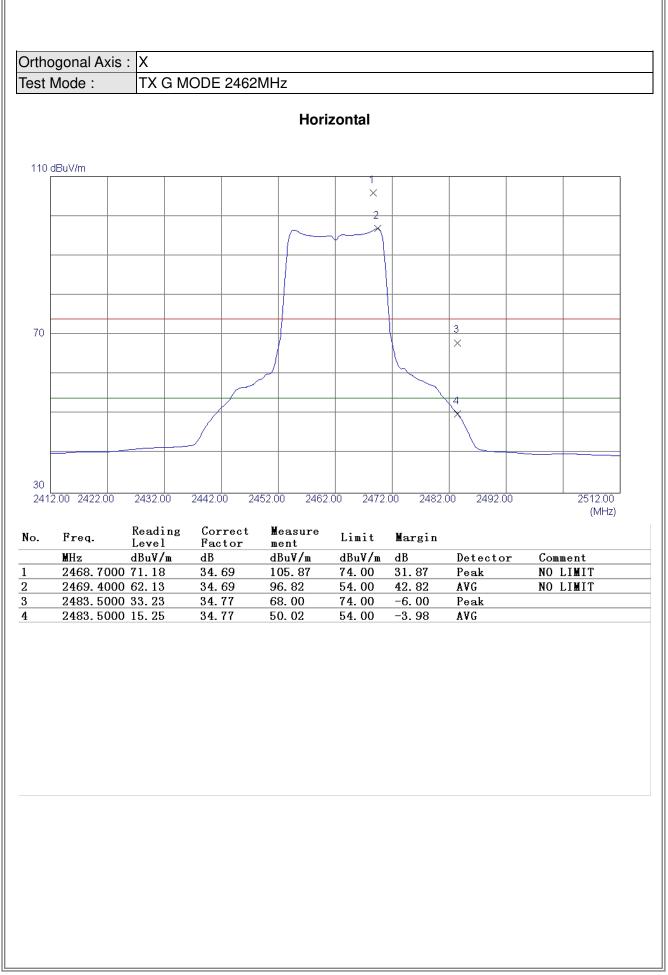




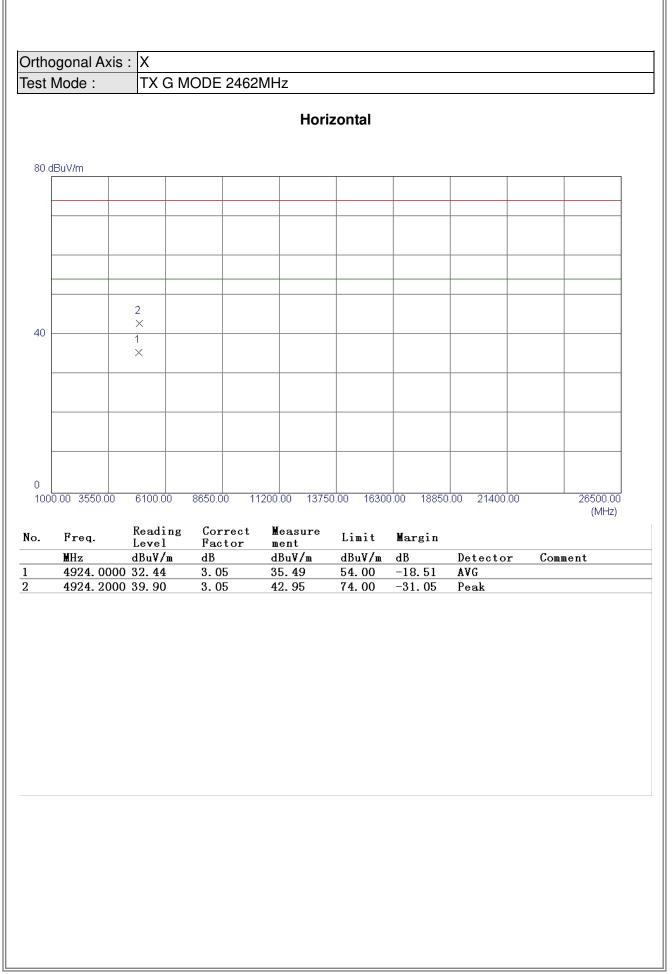


st N	Mode :	TX G	MODE 2462	2MHz				
				Ve	rtical			
80 A	BuV/m							
	Duvin							
40 -		2						
40 -		1						
-		×						
0								
1000	0.00 3550.00	6100.00	8650.00 1	1200.00 1375	0.00 1630	0.00 18850	0.00 21400.00	26500.00 (MHz)
<b>).</b>	Freq.	Reading Level	Factor	Measure ment	Limit	Margin		
<b>).</b>	MHz	Level dBuV/m	Factor dB	ment dBuV/m	dBuV/m	dB	Detector AVG	Comment
). 		Level dBuV/m 30.13	Factor	ment			Detector AVG Peak	Comment
). 	MHz 4923.0000	Level dBuV/m 30.13	Factor dB 3.05	ment dBuV/m 33.18	dBuV/m 54.00	dB -20. 82	AVG	Comment
). 	MHz 4923.0000	Level dBuV/m 30.13	Factor dB 3.05	ment dBuV/m 33.18	dBuV/m 54.00	dB -20. 82	AVG	Comment
	MHz 4923.0000	Level dBuV/m 30.13	Factor dB 3.05	ment dBuV/m 33.18	dBuV/m 54.00	dB -20. 82	AVG	Comment
	MHz 4923.0000	Level dBuV/m 30.13	Factor dB 3.05	ment dBuV/m 33.18	dBuV/m 54.00	dB -20. 82	AVG	Comment
	MHz 4923.0000	Level dBuV/m 30.13	Factor dB 3.05	ment dBuV/m 33.18	dBuV/m 54.00	dB -20. 82	AVG	Comment
	MHz 4923.0000	Level dBuV/m 30.13	Factor dB 3.05	ment dBuV/m 33.18	dBuV/m 54.00	dB -20. 82	AVG	Comment
D	MHz 4923.0000	Level dBuV/m 30.13	Factor dB 3.05	ment dBuV/m 33.18	dBuV/m 54.00	dB -20. 82	AVG	Comment
	MHz 4923.0000	Level dBuV/m 30.13	Factor dB 3.05	ment dBuV/m 33.18	dBuV/m 54.00	dB -20. 82	AVG	Comment
<b>.</b>	MHz 4923.0000	Level dBuV/m 30.13	Factor dB 3.05	ment dBuV/m 33.18	dBuV/m 54.00	dB -20. 82	AVG	Comment

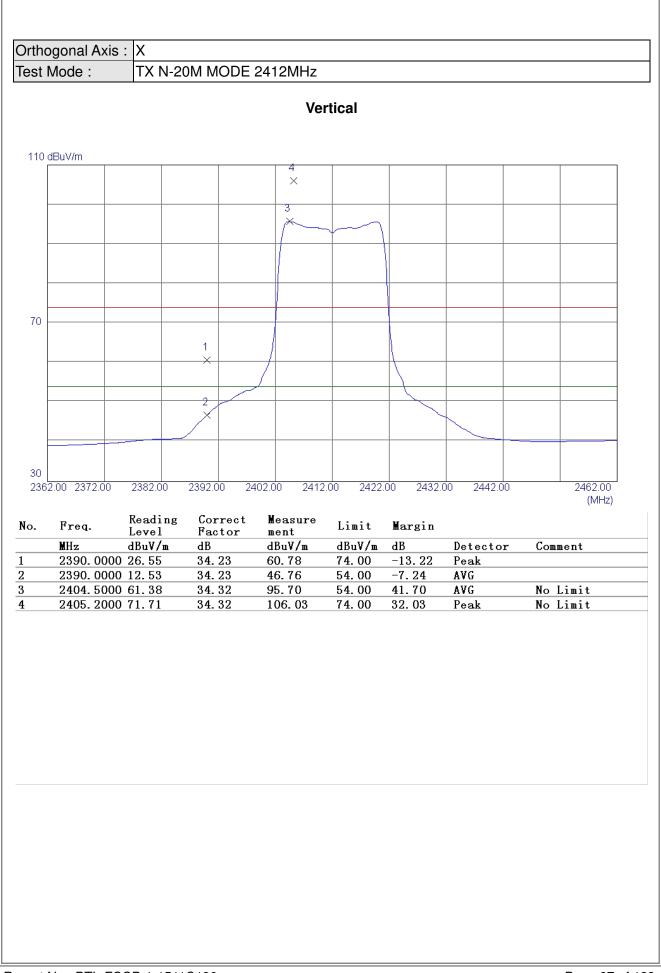




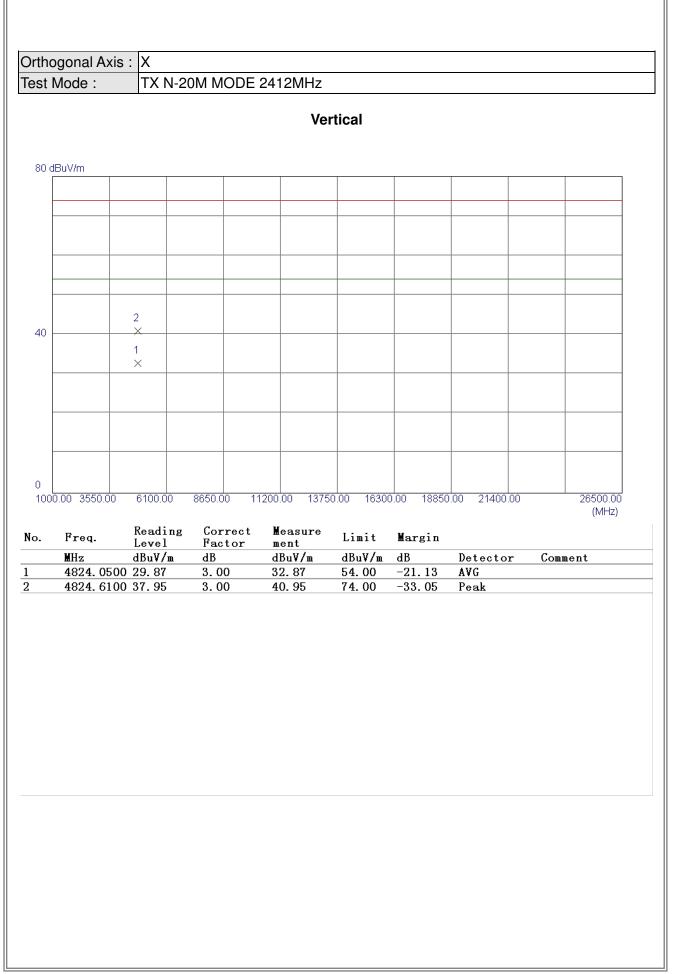




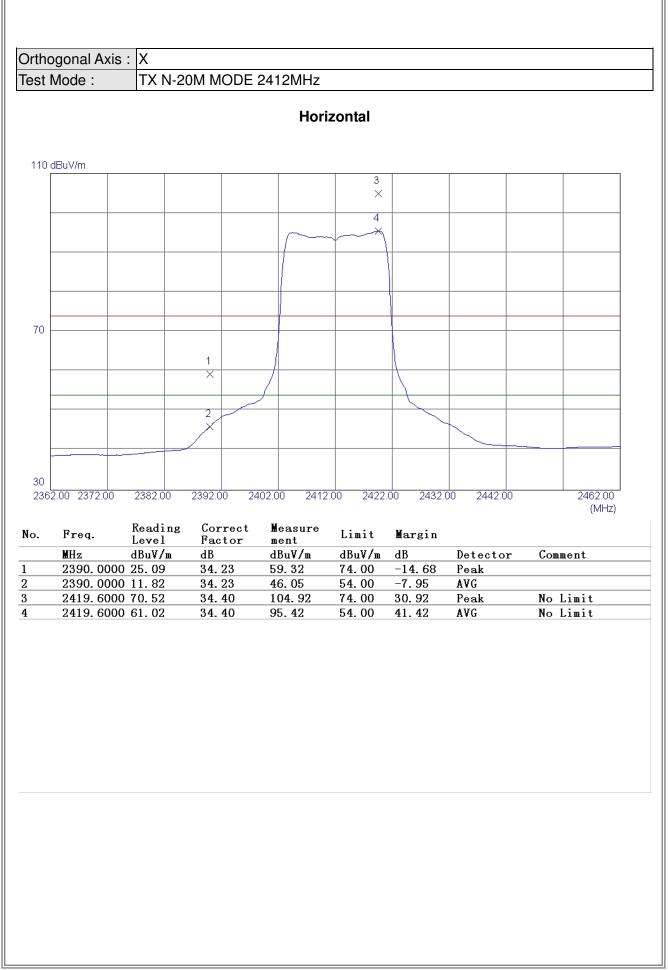




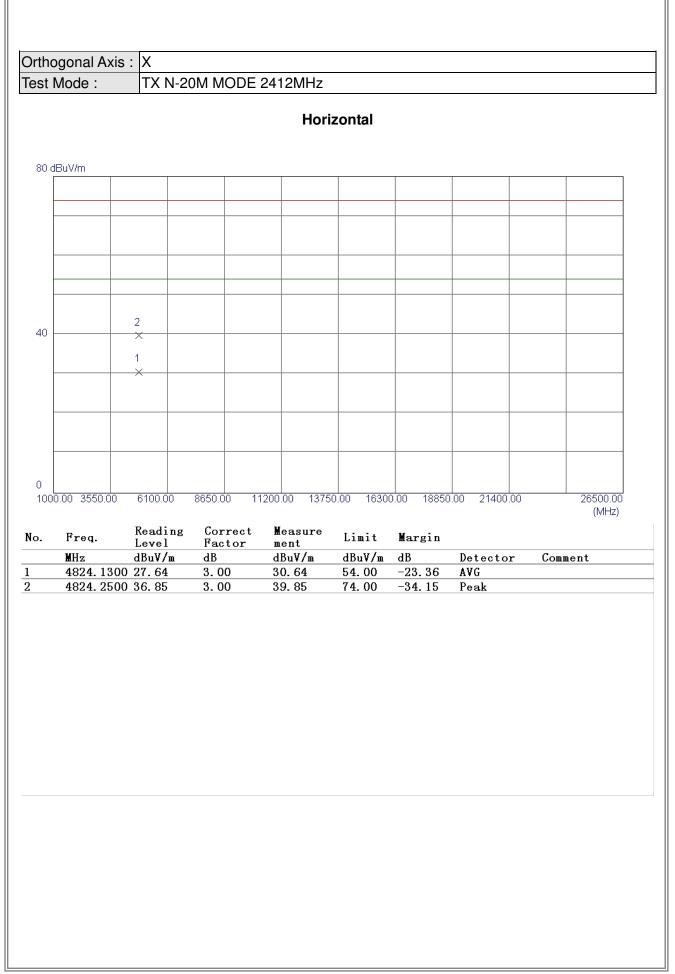




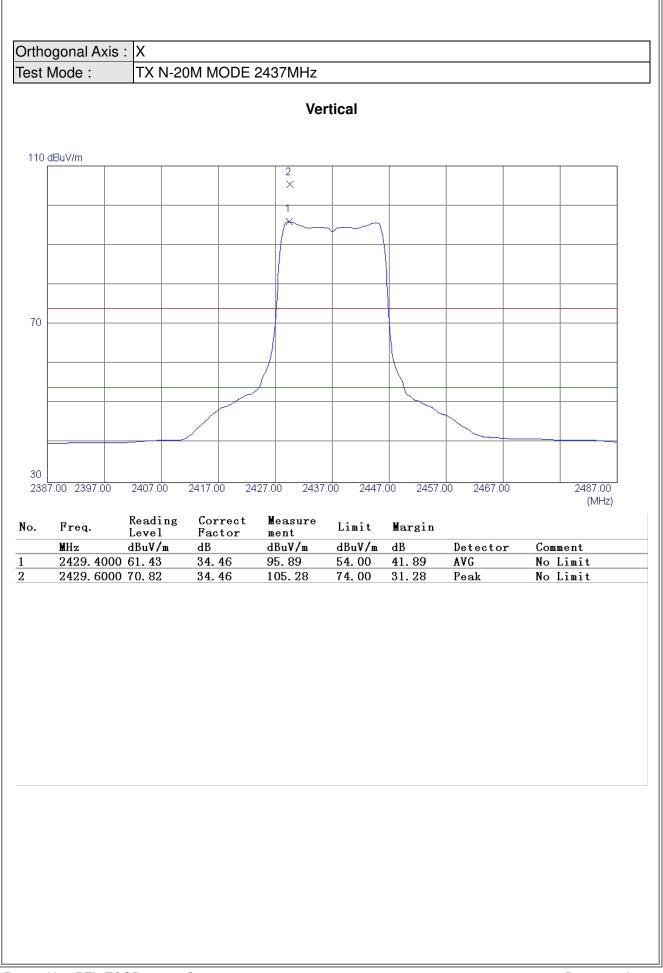




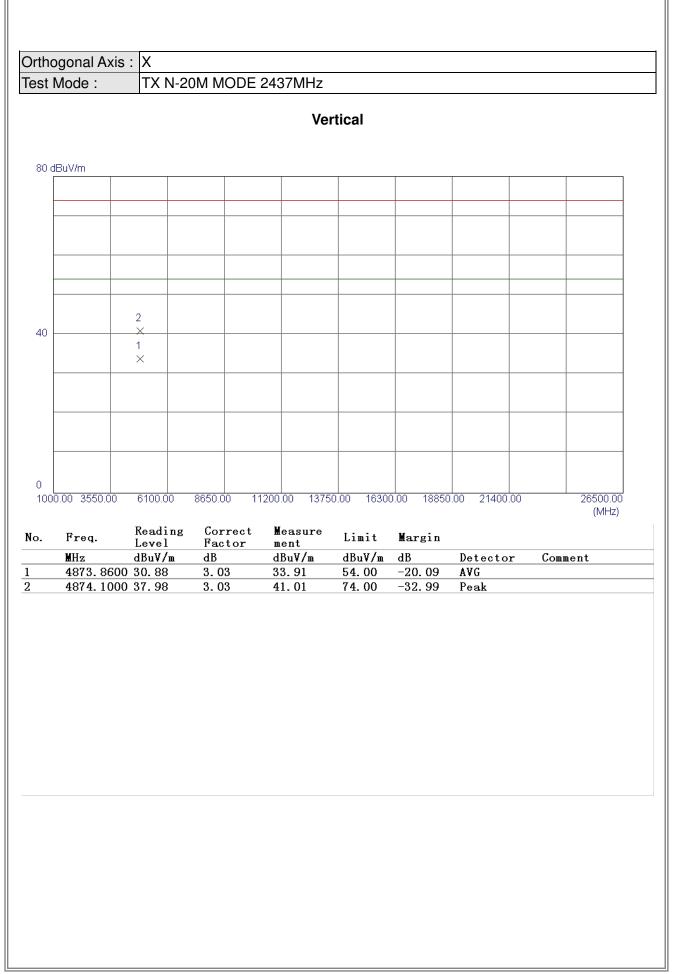




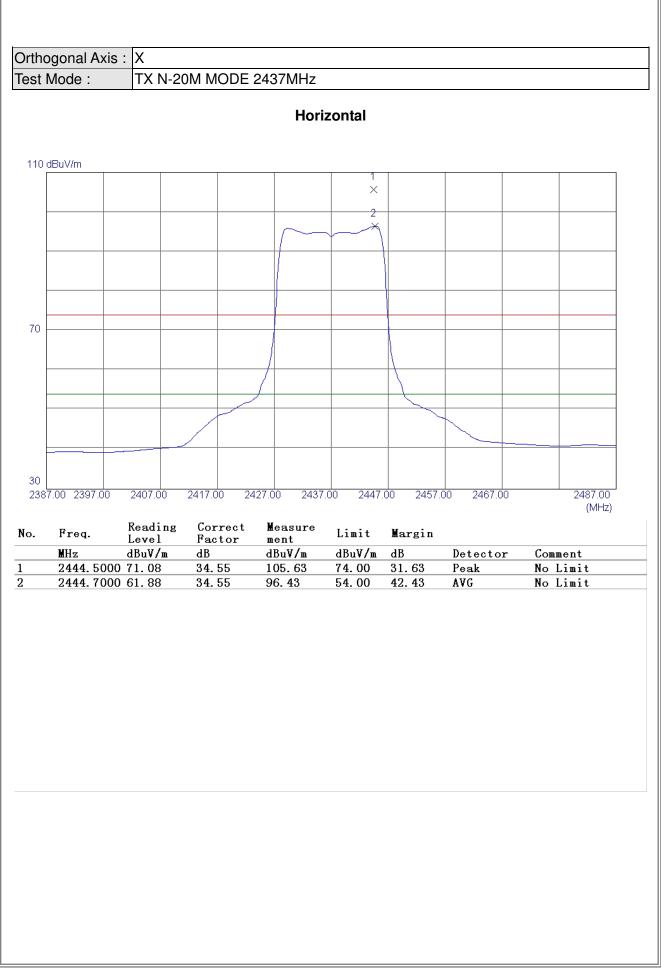




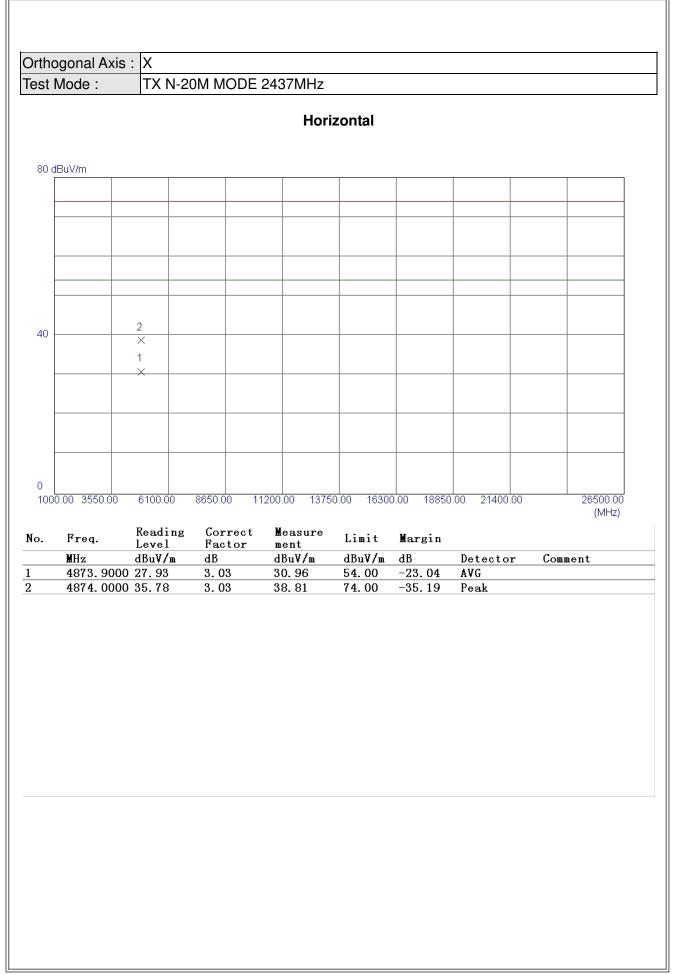




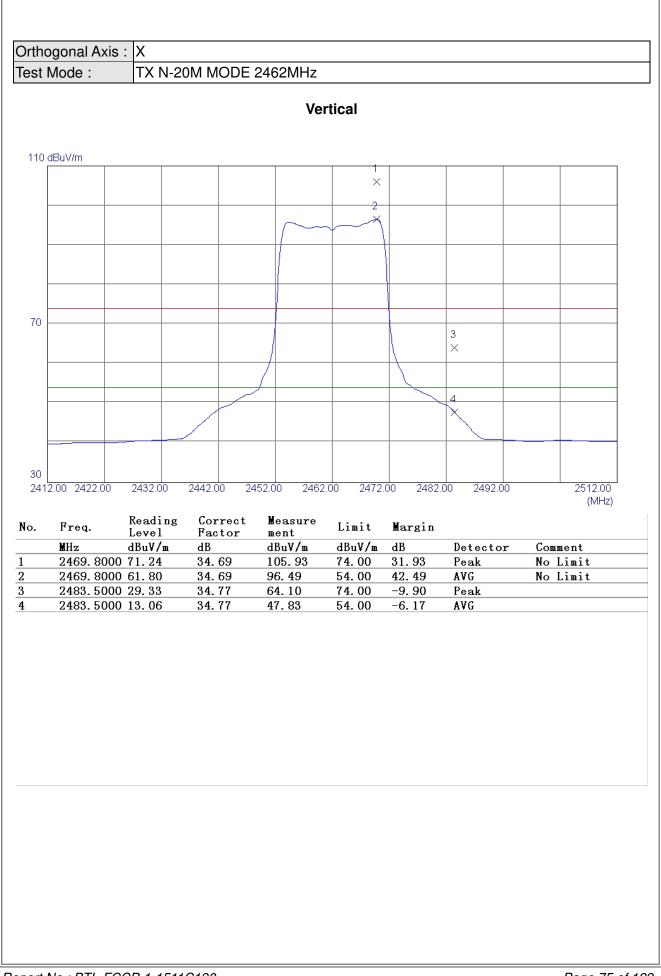




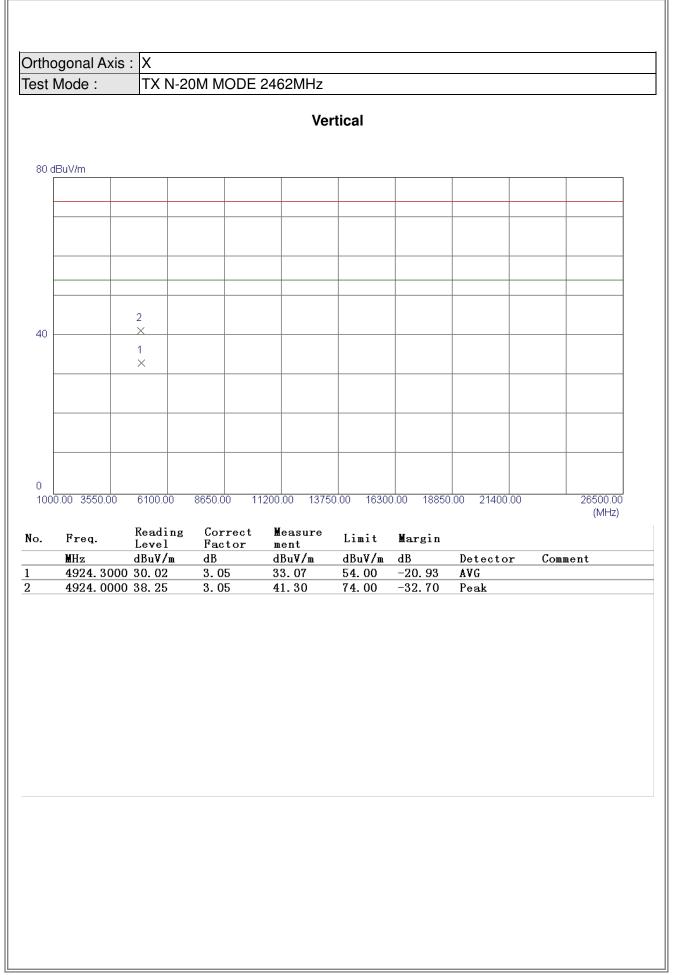




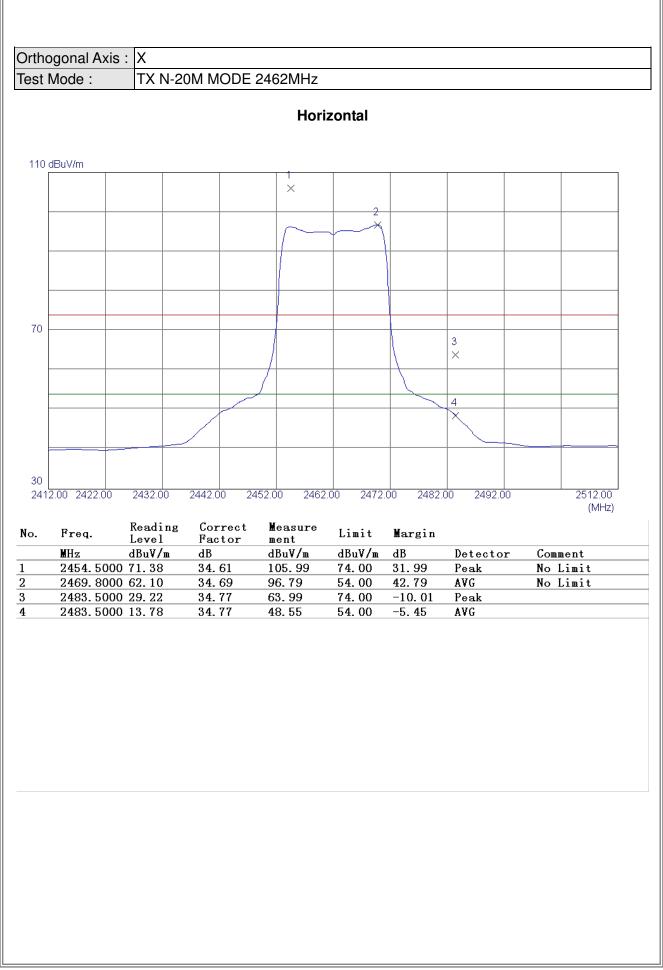




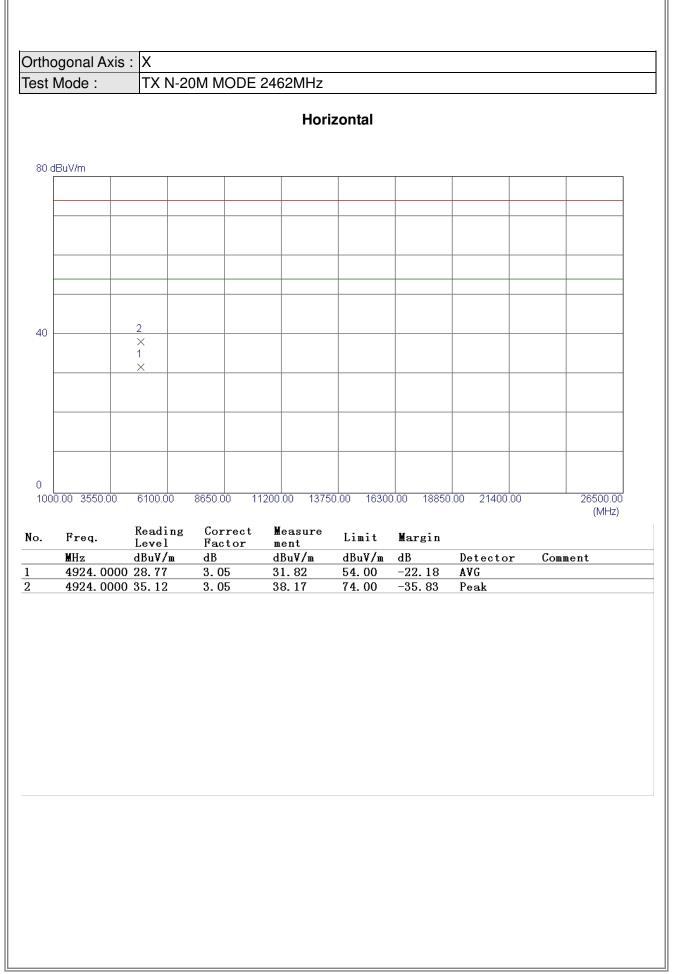




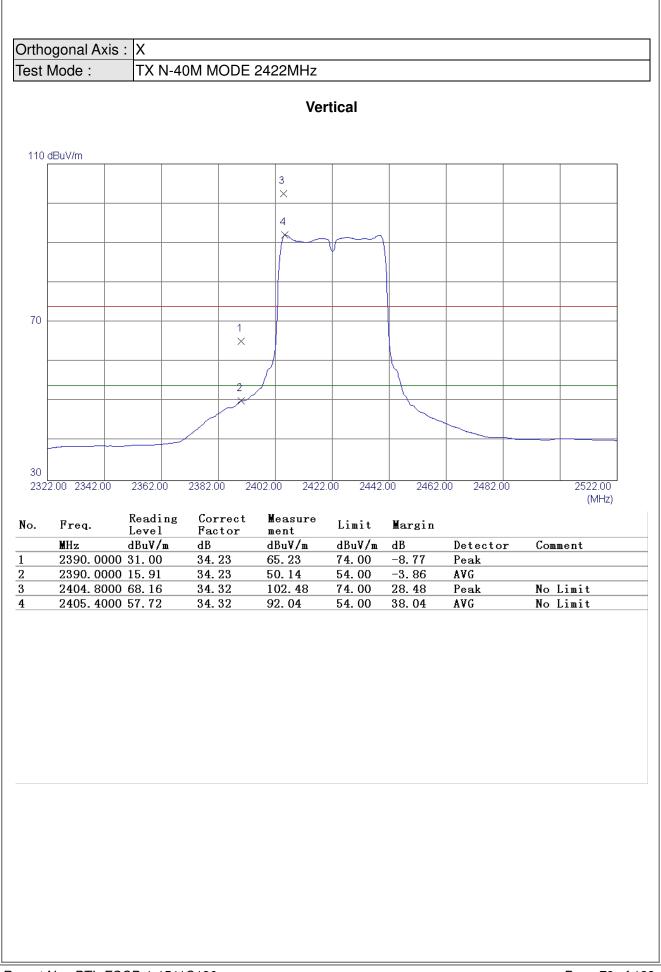




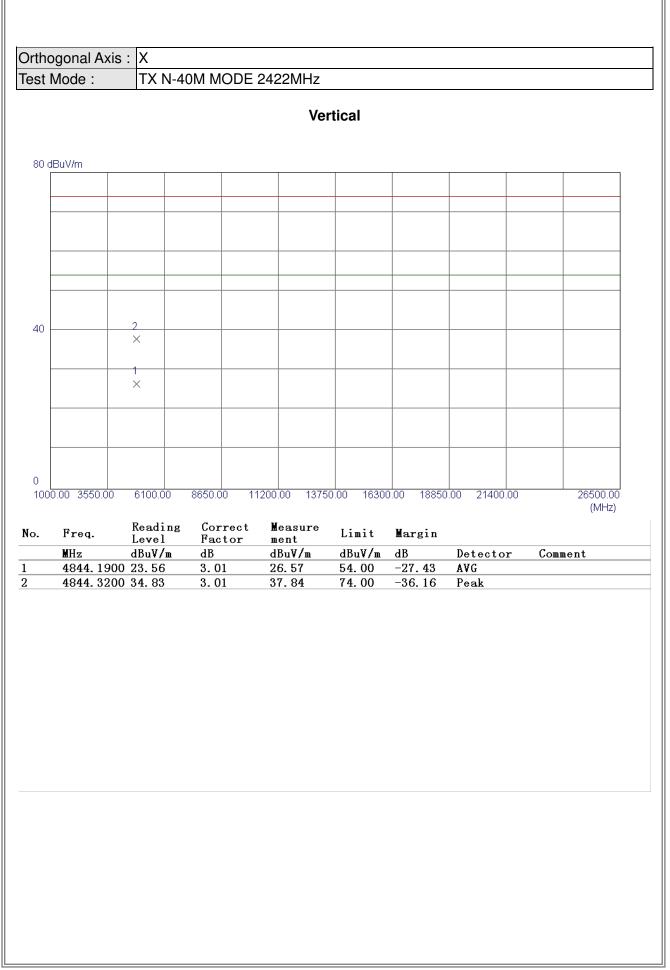




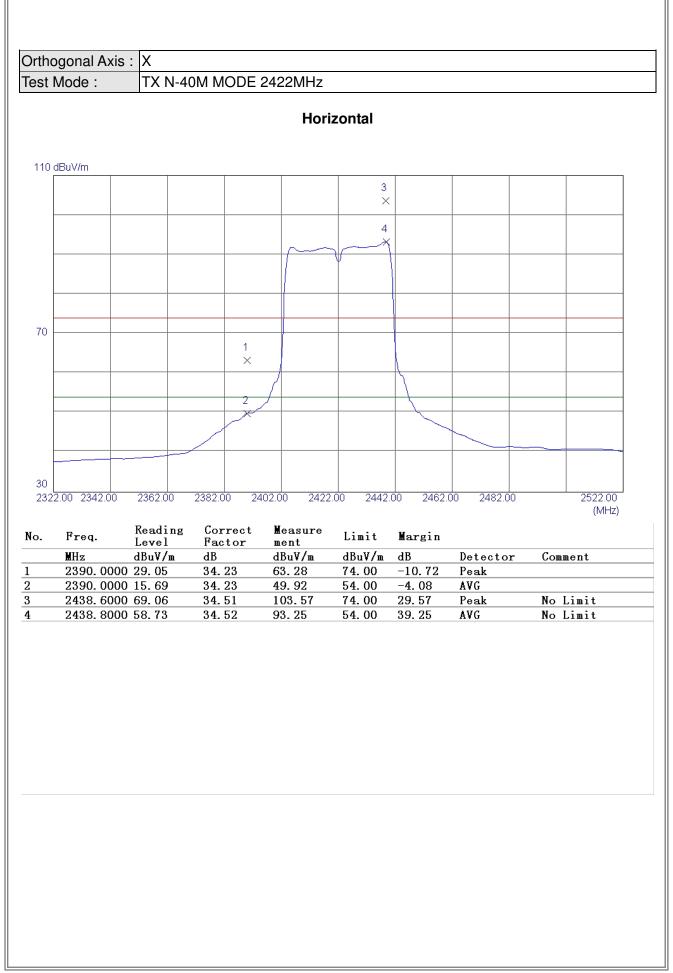




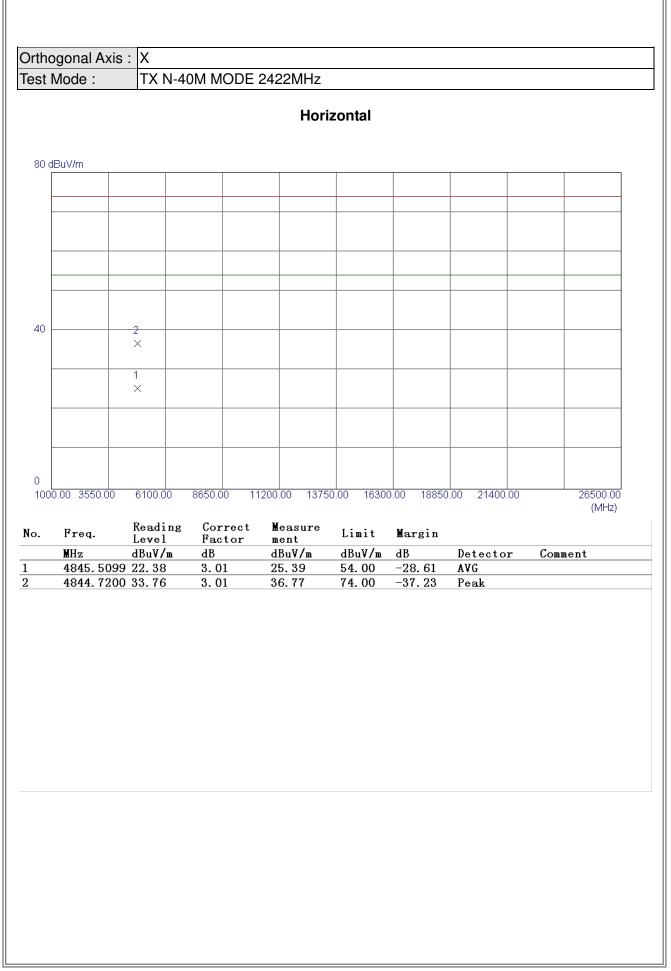




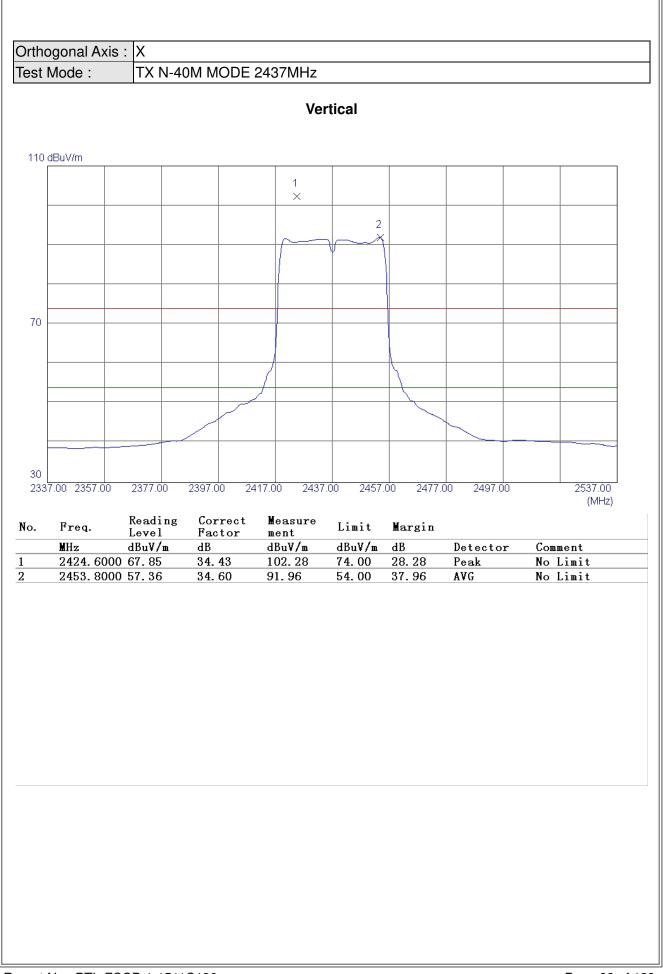




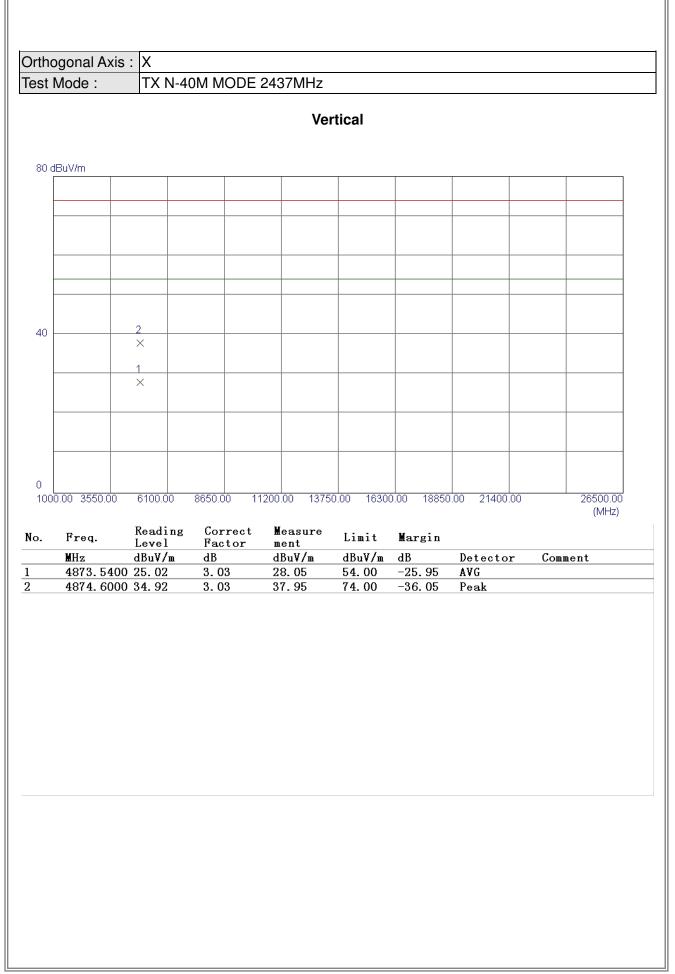




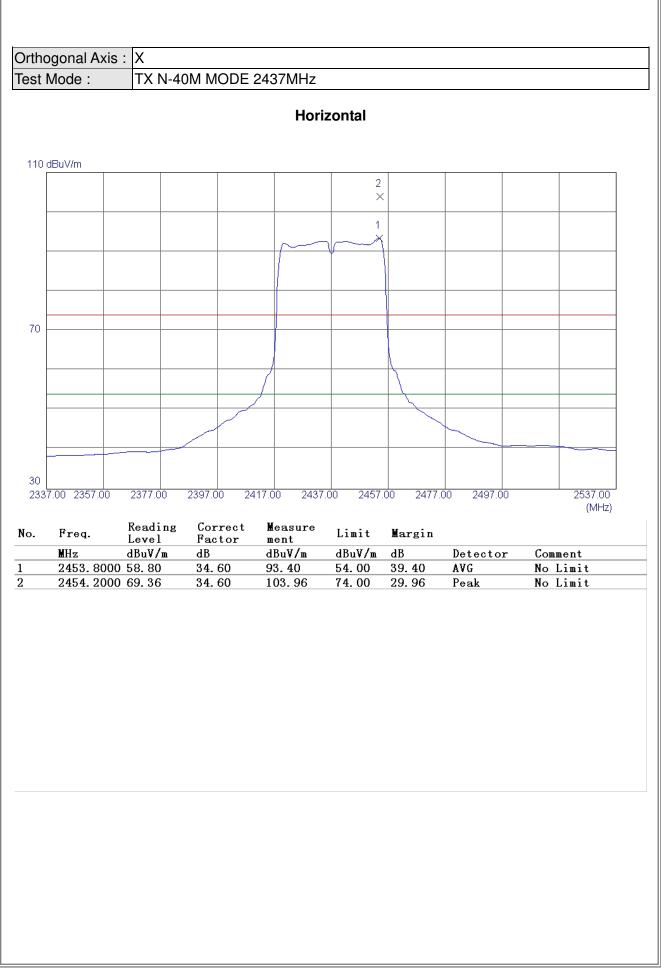




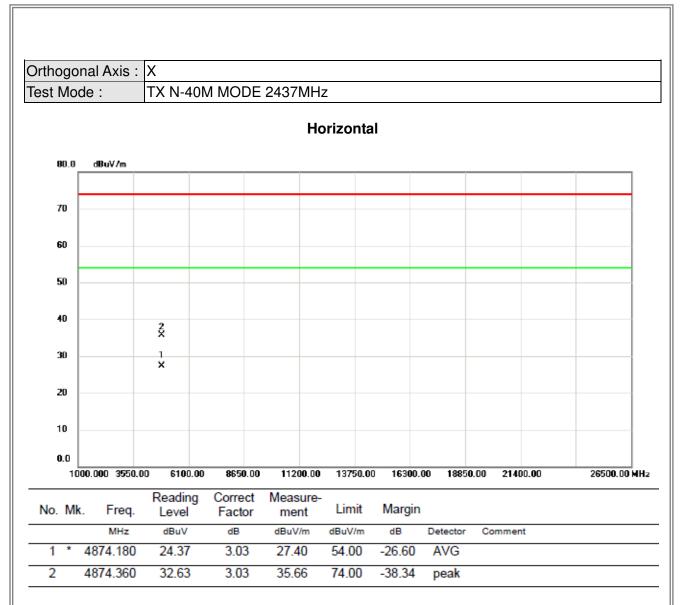




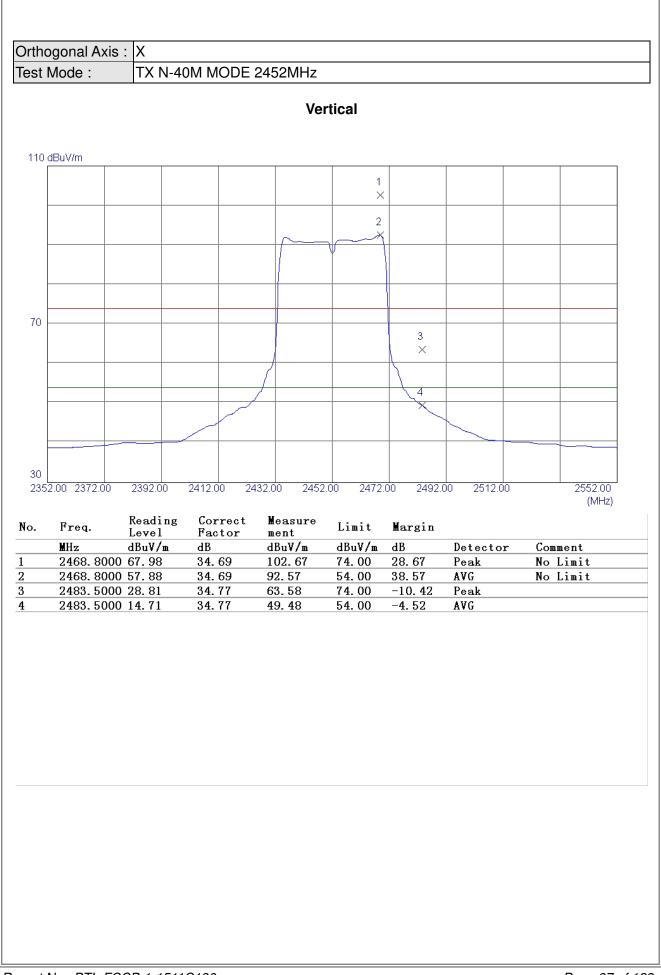




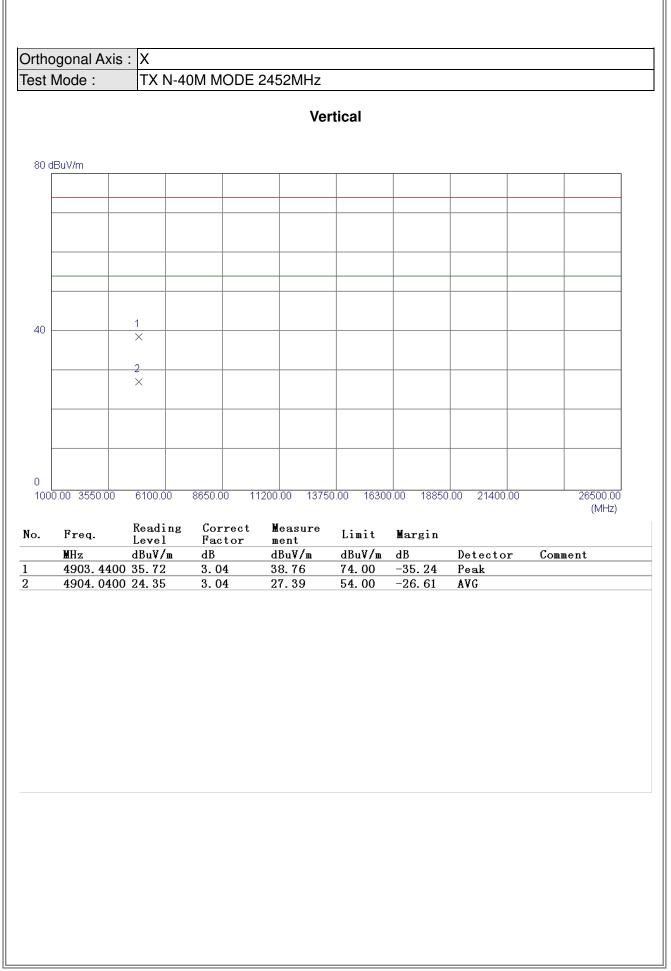




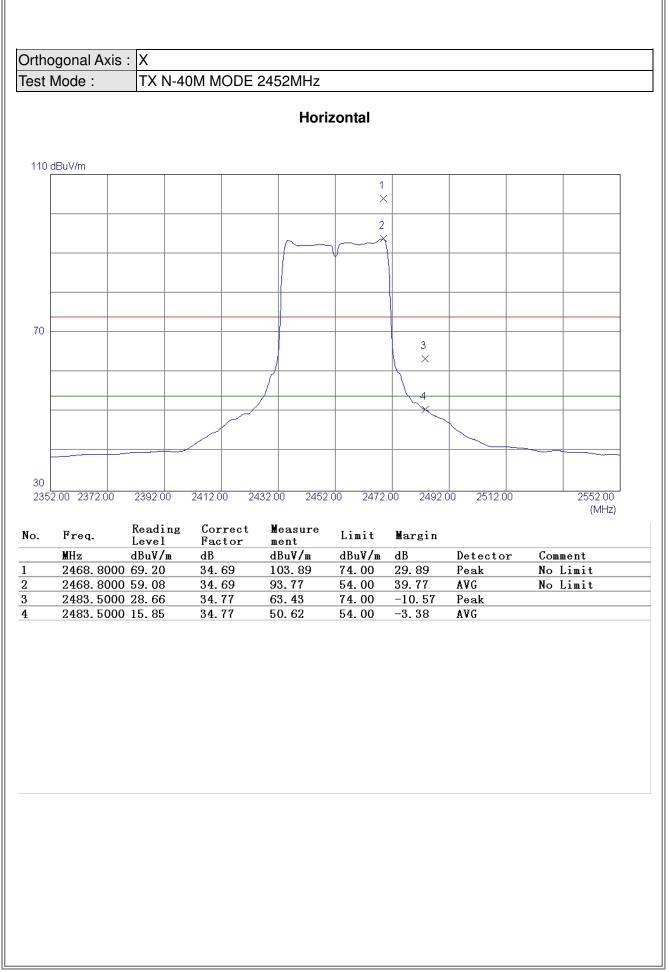




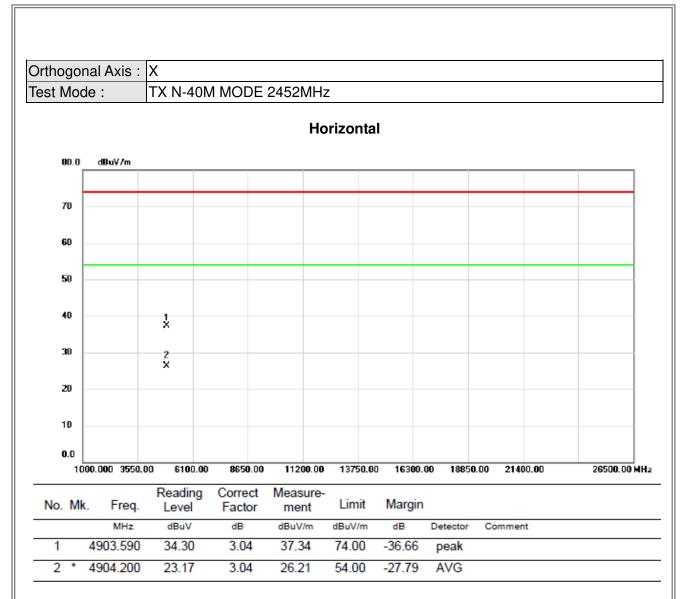








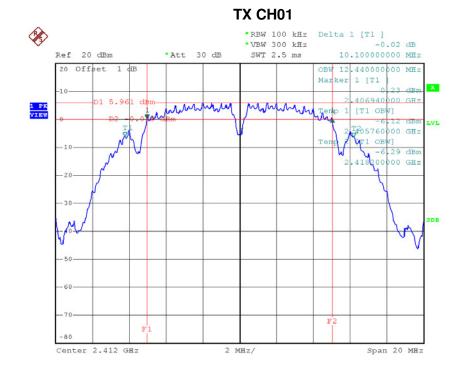




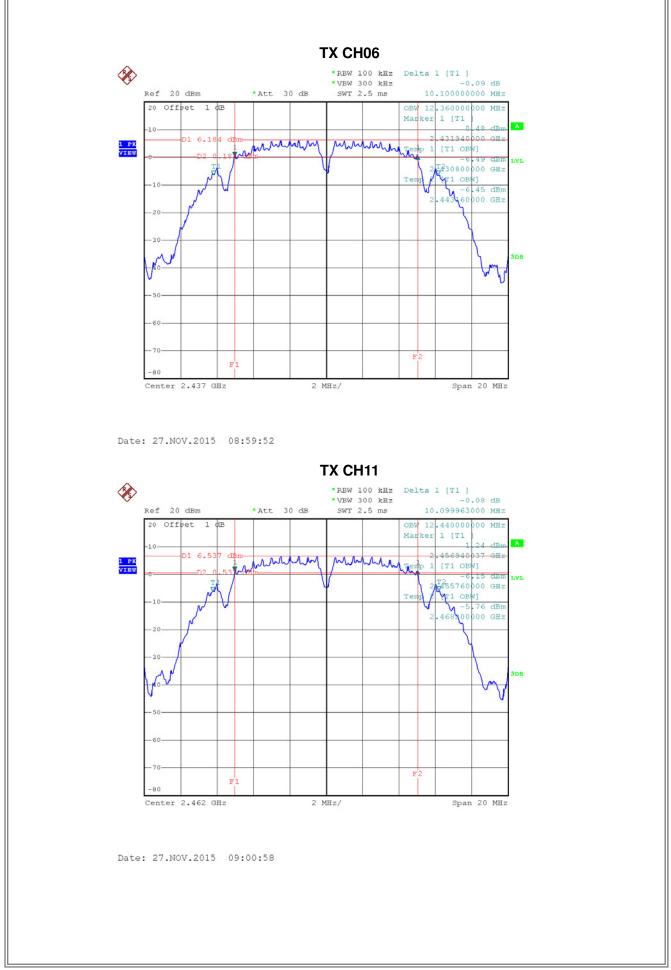
## ATTACHMENT E - BANDWIDTH

#### Test Mode : TX B Mode\_CH01/06/11

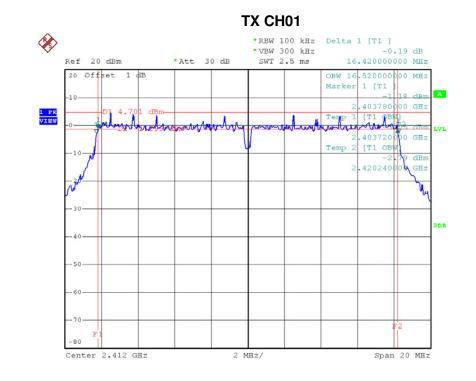
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.10	12.44	500	Complies
2437	10.10	12.36	500	Complies
2462	10.10	12.44	500	Complies



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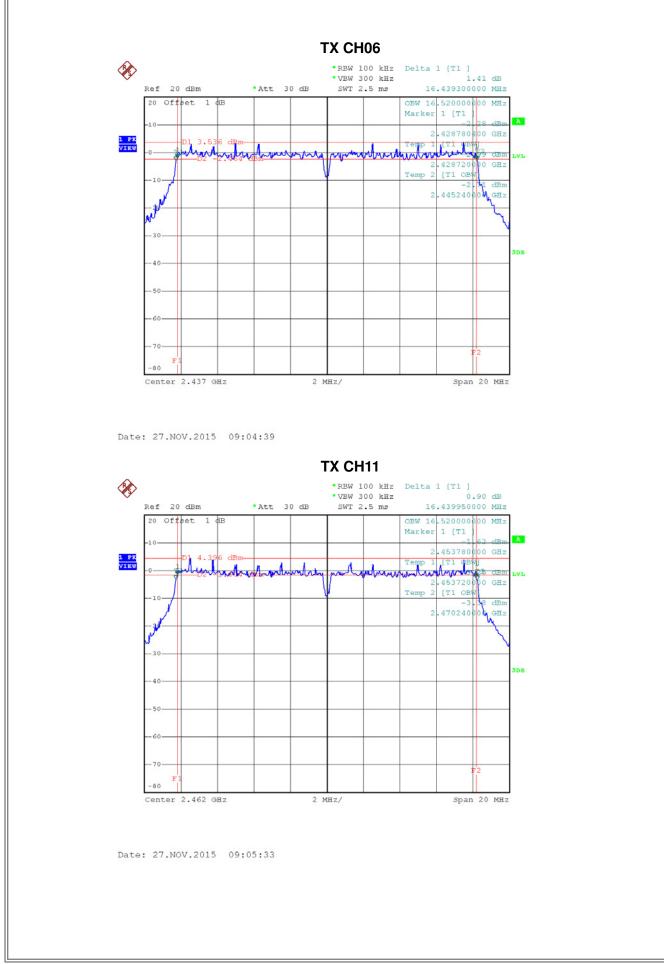


Test Mode: TX G Mode_CH01/06/11						
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result		
2412	16.42	16.52	500	Complies		
2437	16.44	16.52	500	Complies		
2462	16.44	16.52	500	Complies		



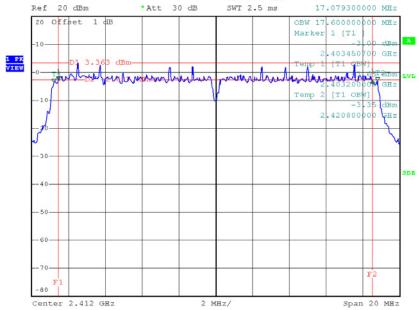
Date: 27.NOV.2015 09:03:27

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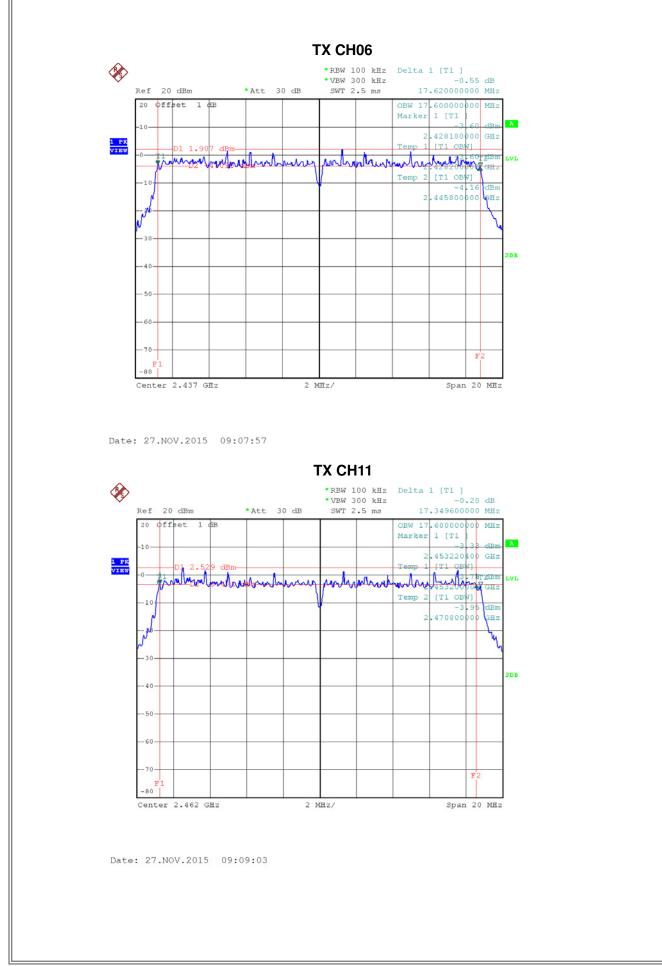
Test Mode : TX N-20MHz Mode_CH01/06/11						
Frequency (MHz)6dB Bandwidth (MHz)99% Occupied BWMin. Limit (kHz)Test Result						
2412	17.08	17.60	500	Complies		
2437	17.62	17.60	500	Complies		
2462	17.35	17.60	500	Complies		





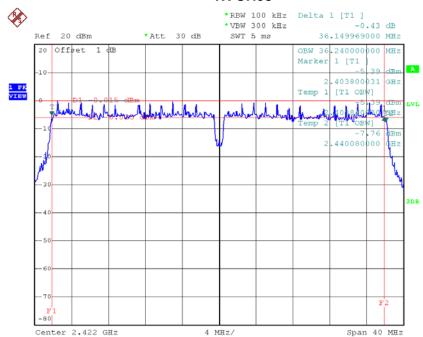
Date: 27.NOV.2015 09:06:54

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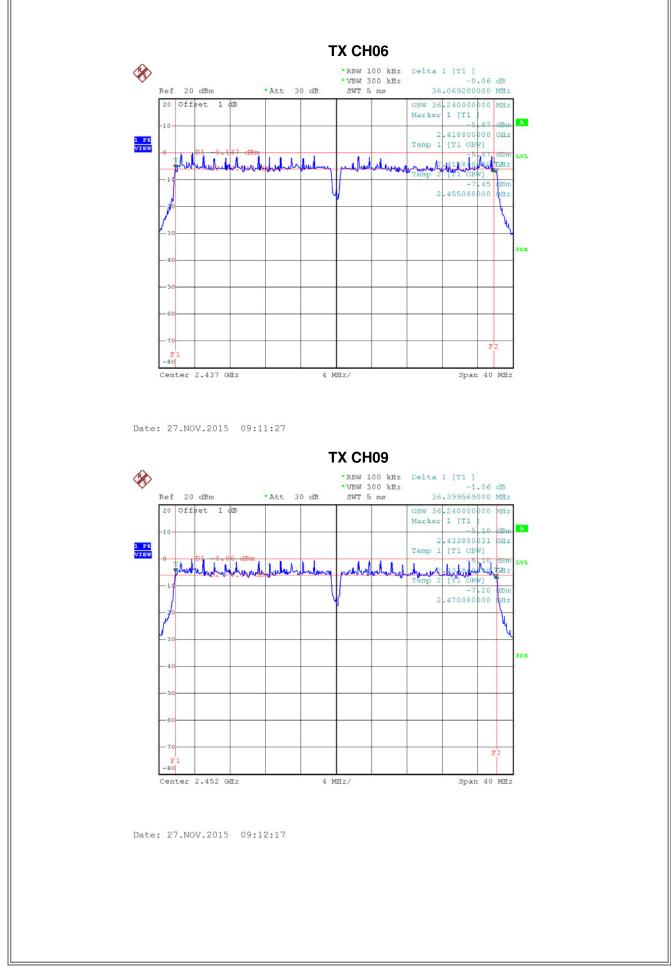


Test Mode : TX N-40MHz Mode_CH03/06/09						
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result		
2422	36.15	36.24	500	Complies		
2437	36.07	36.24	500	Complies		
2452	36.40	36.24	500	Complies		





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# ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2412	20.36	0.11	30.00	1.00	Complies	
2437	20.34	0.11	30.00	1.00	Complies	
2462	20.48	0.11	30.00	1.00	Complies	

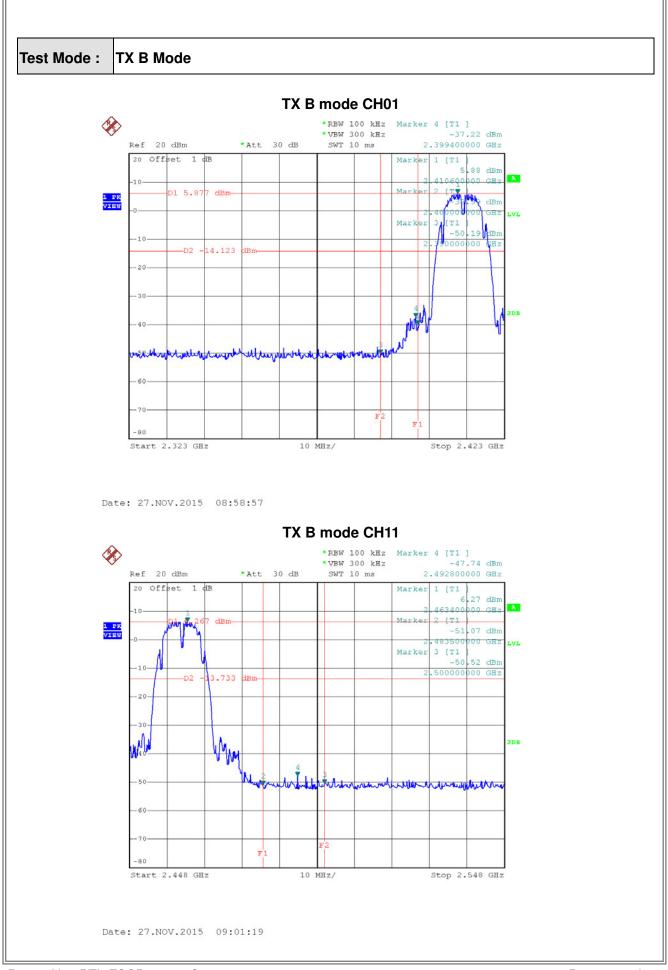
Test Mode :TX G Mode_CH01/06/11						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	24.06	0.25	30.00	1.00	Complies	
2437	24.09	0.26	30.00	1.00	Complies	
2462	24.04	0.25	30.00	1.00	Complies	

Test Mode :TX N20 Mode_CH01/06/11						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	23.04	0.20	30.00	1.00	Complies	
2437	22.82	0.19	30.00	1.00	Complies	
2462	22.63	0.18	30.00	1.00	Complies	

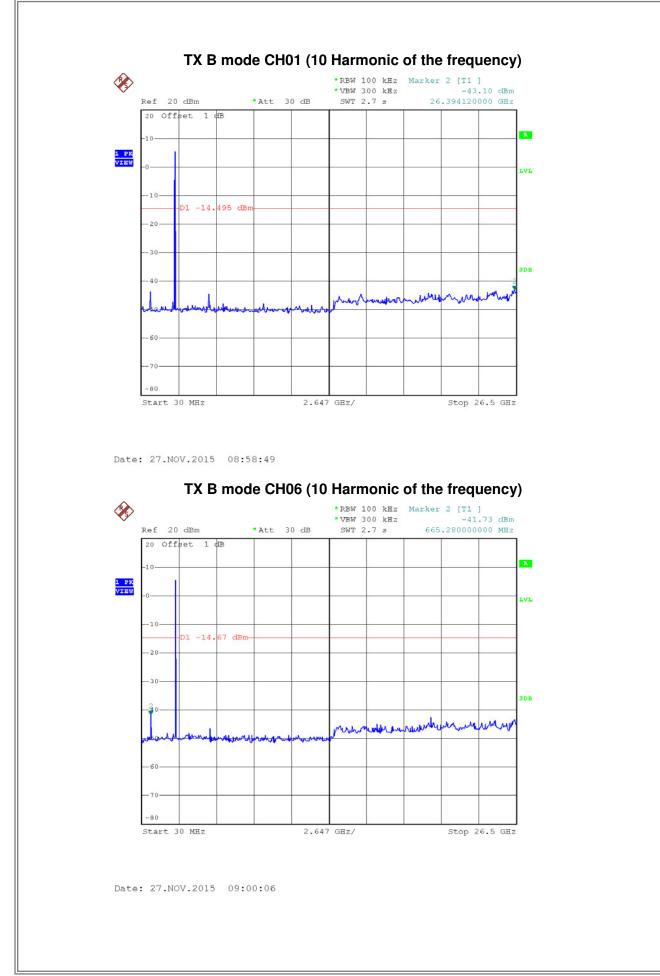
Test Mode :TX N40 Mode_CH03/06/09						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Popult	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2422	22.31	0.17	30.00	1.00	Complies	
2437	22.42	0.17	30.00	1.00	Complies	
2452	22.55	0.18	30.00	1.00	Complies	

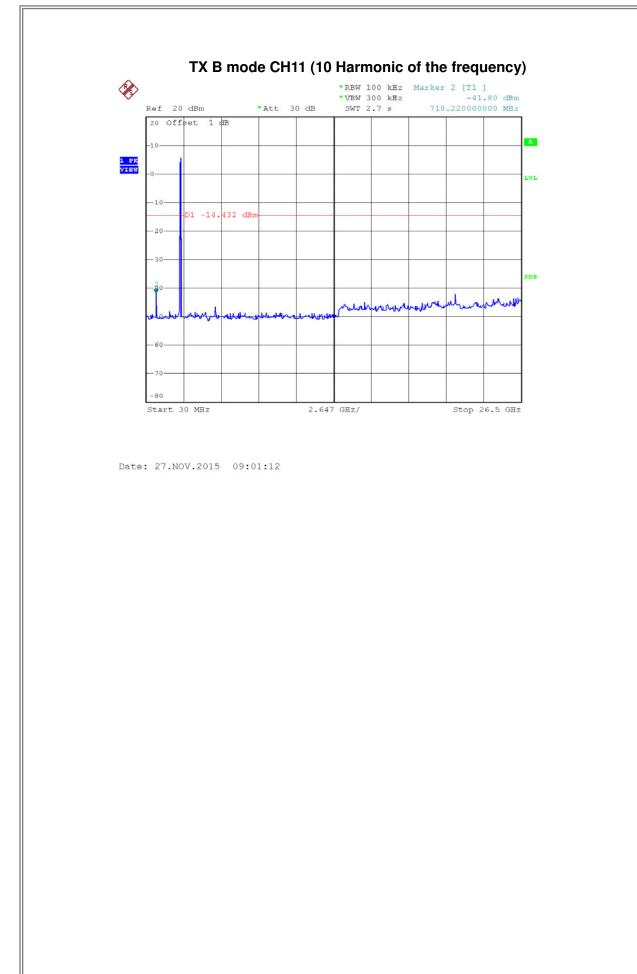
### ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION



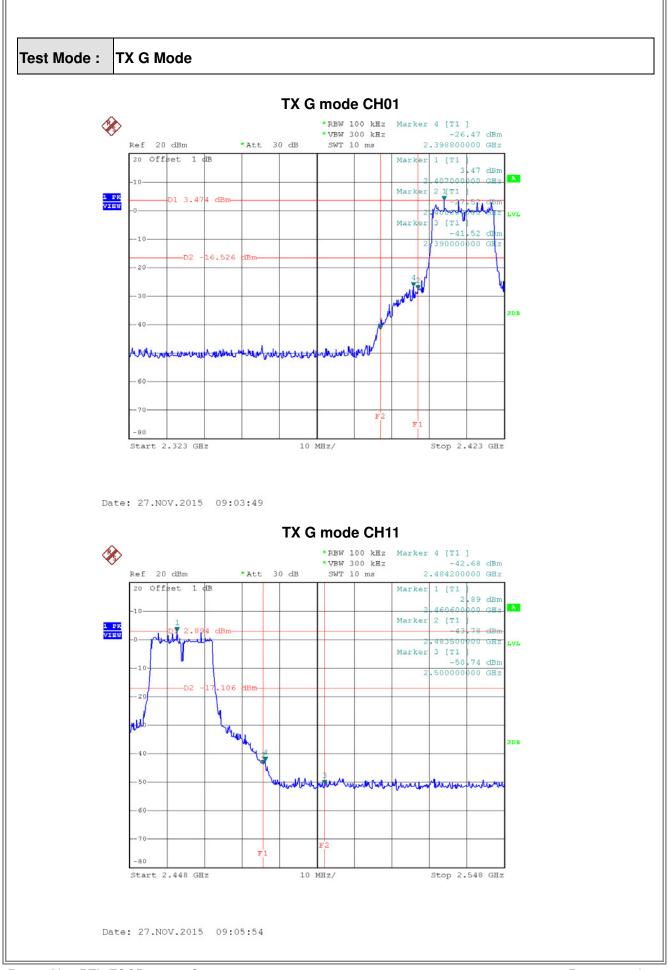


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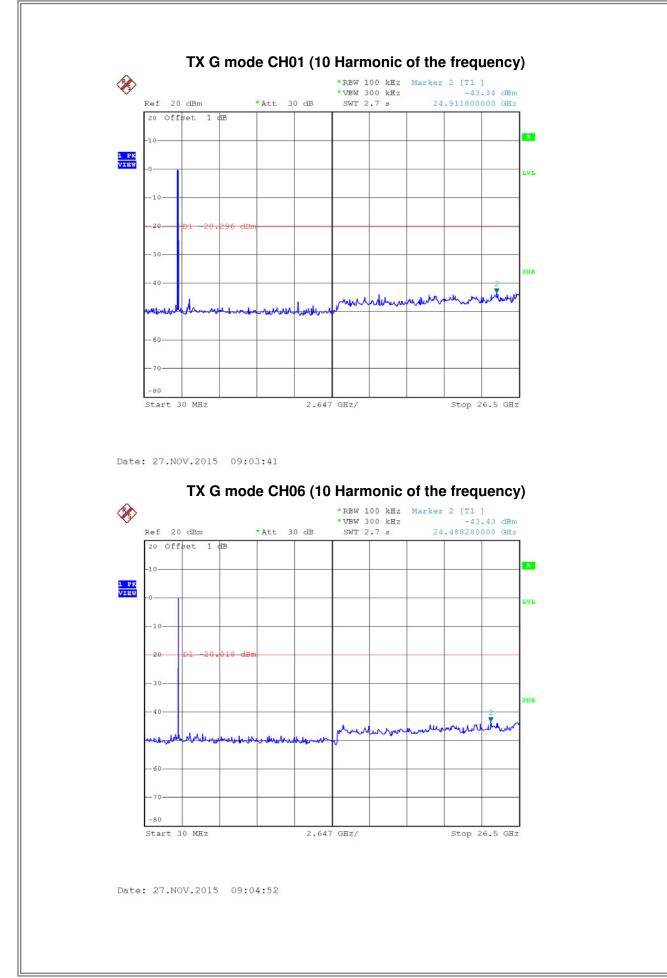


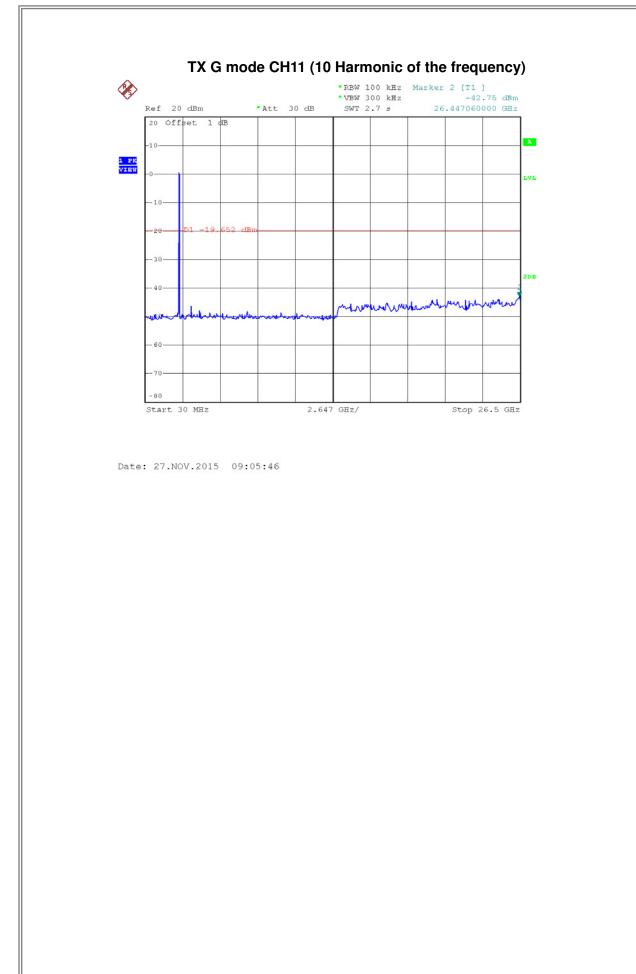




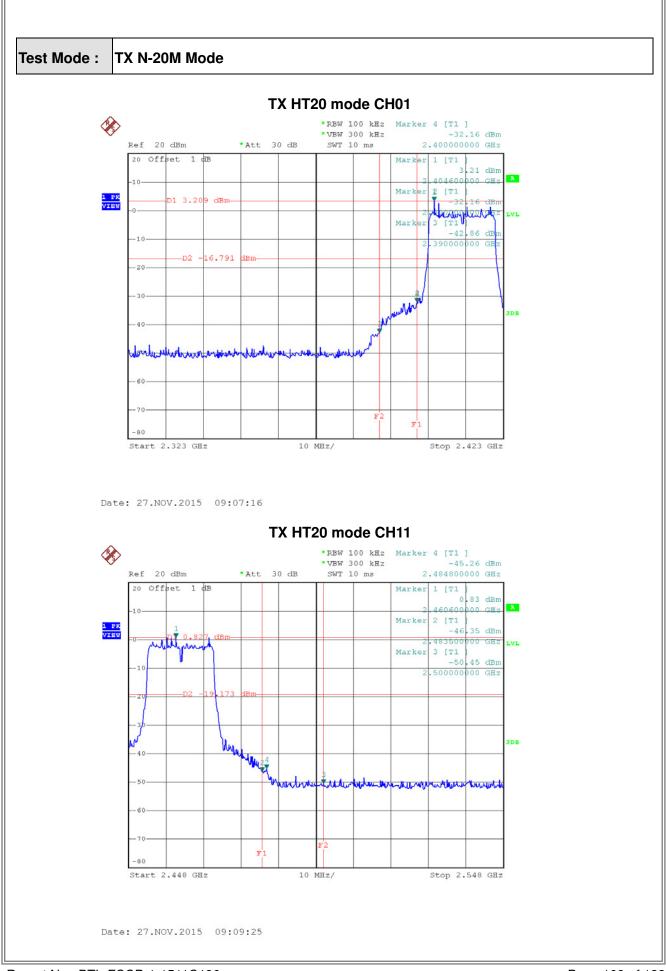


Report No.: BTL-FCCP-1-1511C190

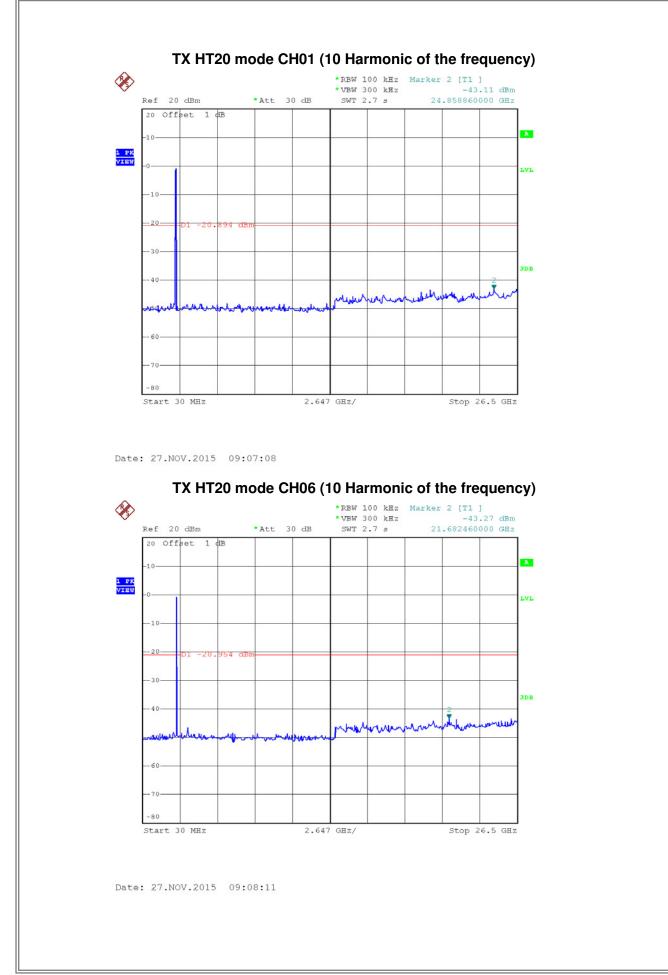


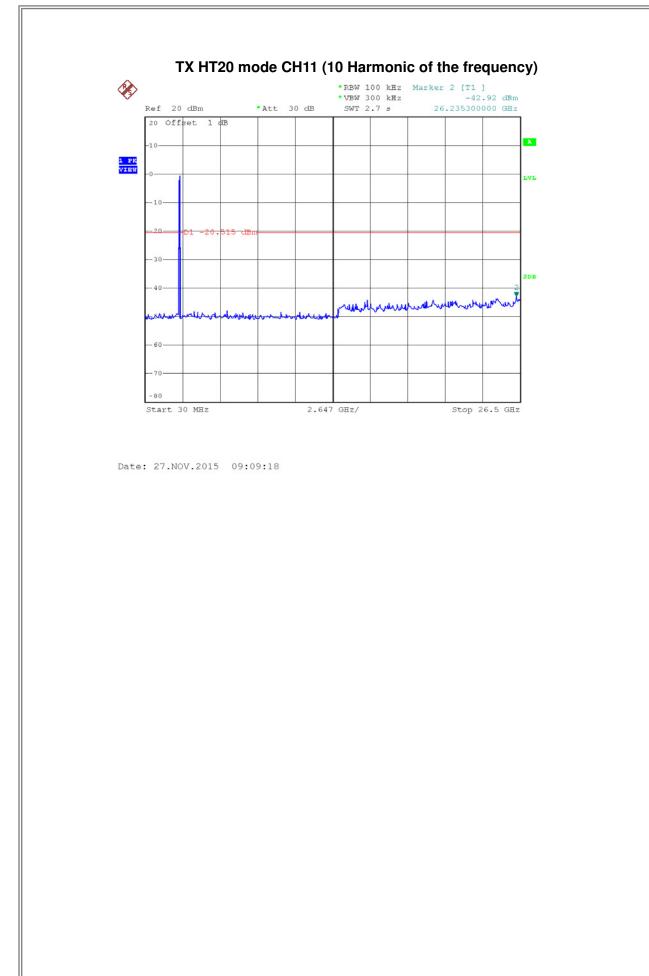




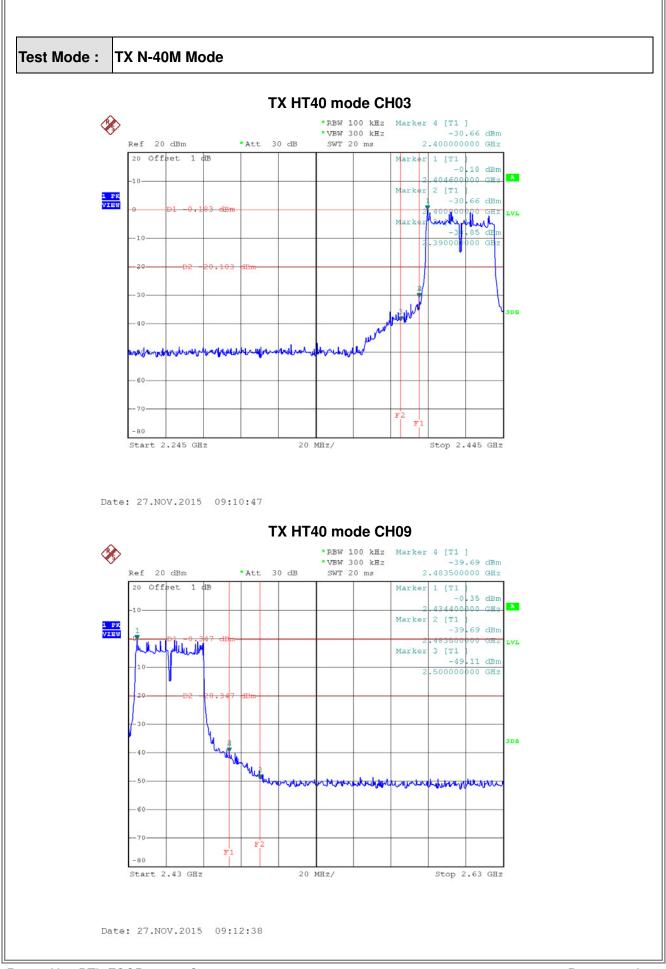


Report No.: BTL-FCCP-1-1511C190

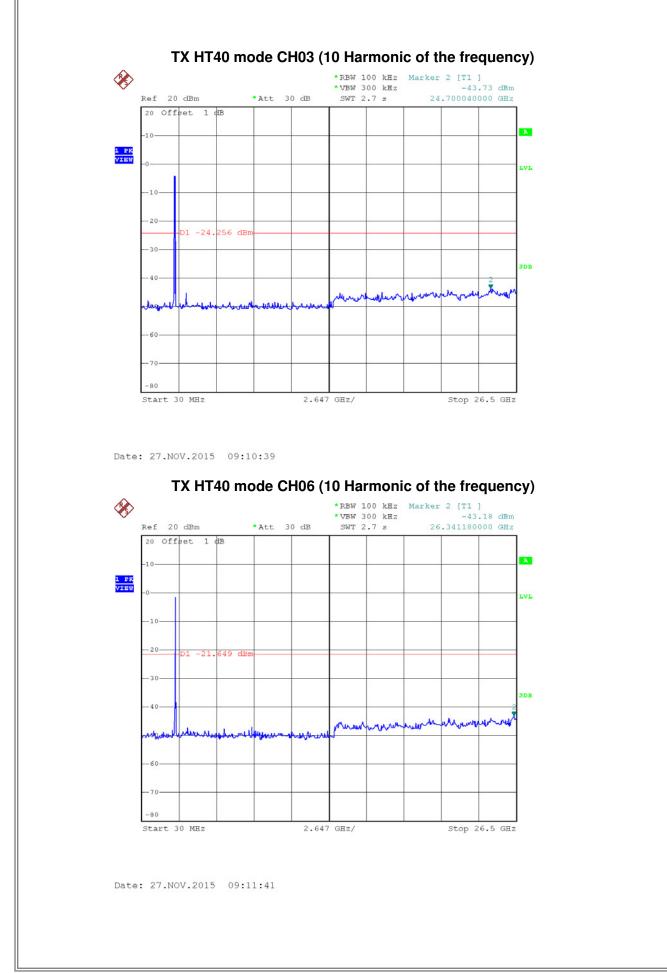


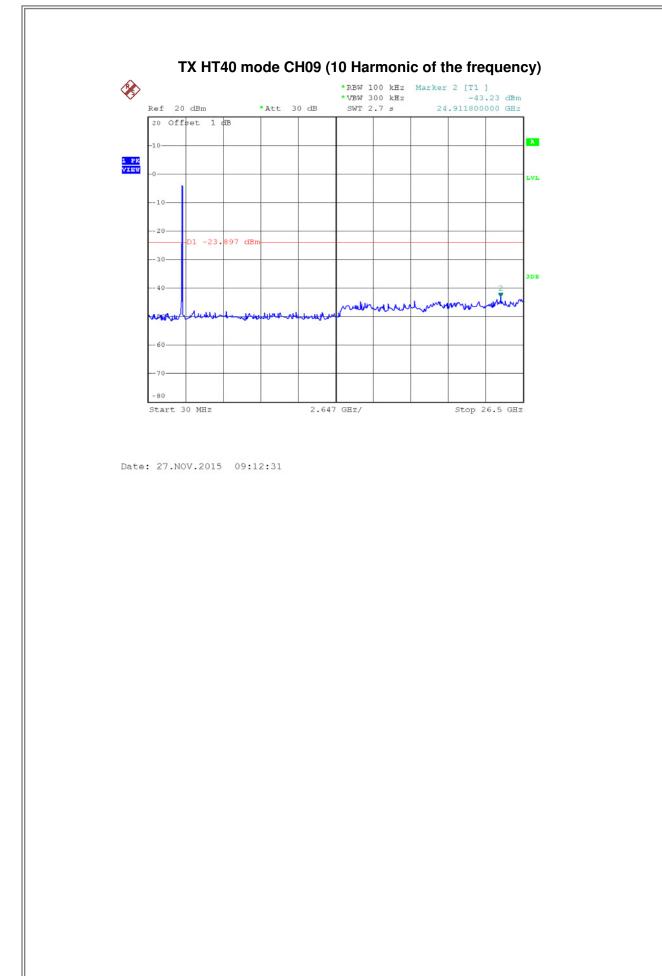






Report No.: BTL-FCCP-1-1511C190

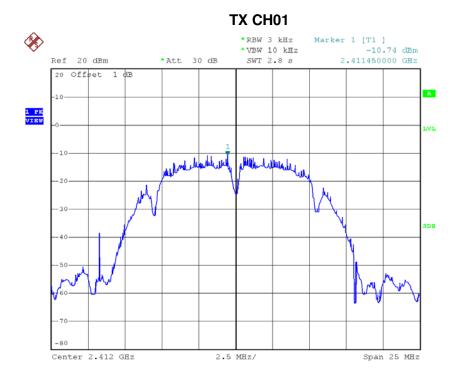




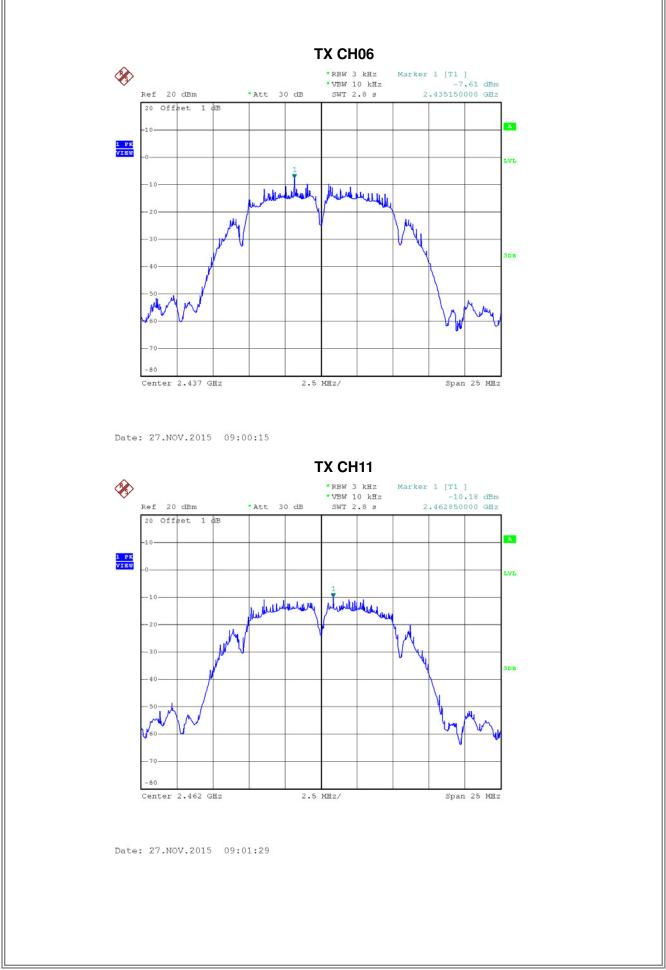
# **ATTACHMENT H - POWER SPECTRAL DENSITY**

# Test Mode :TX B Mode\_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.74	0.08	8.00	Complies
2437	-7.61	0.17	8.00	Complies
2462	-10.18	0.10	8.00	Complies

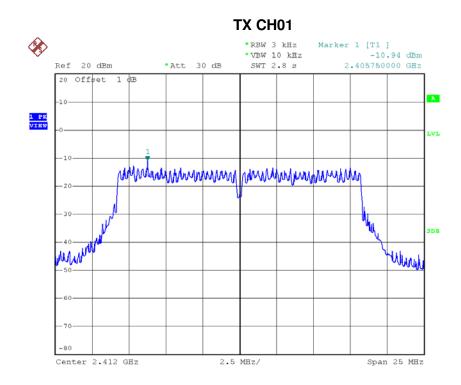


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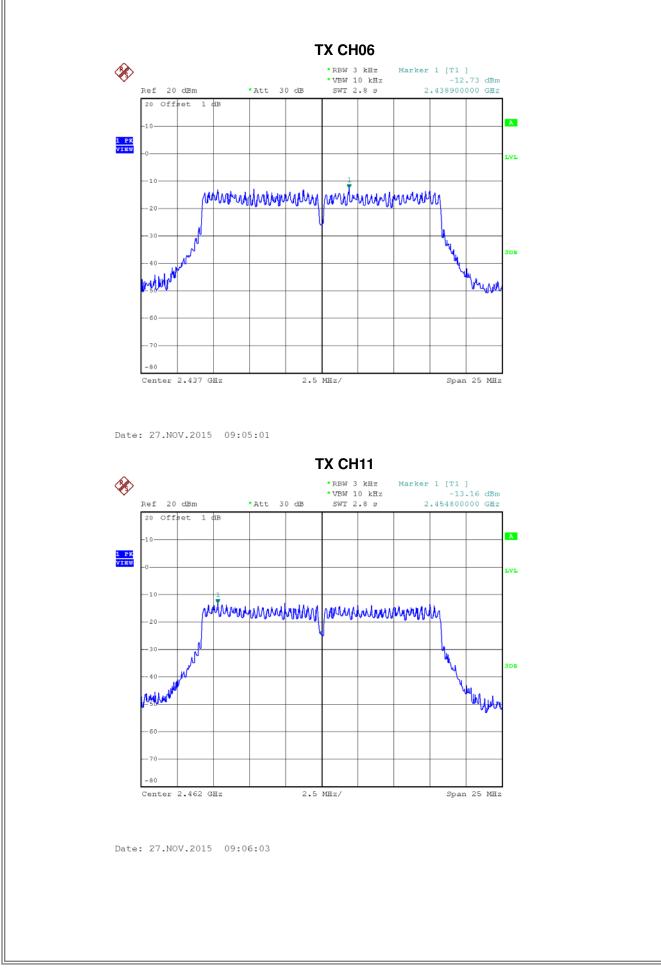


### Test Mode :TX G Mode\_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.94	0.08	8.00	Complies
2437	-12.73	0.05	8.00	Complies
2462	-13.16	0.05	8.00	Complies

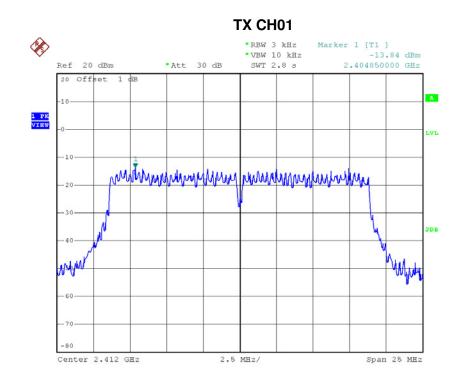


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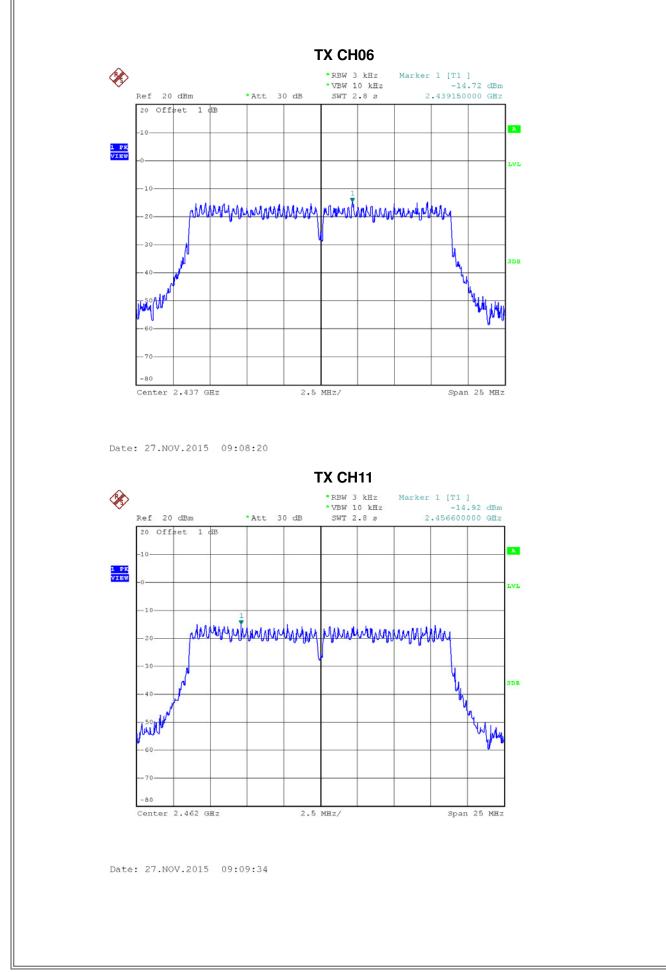


#### Test Mode : TX N-20M Mode\_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.84	0.04	8.00	Complies
2437	-14.72	0.03	8.00	Complies
2462	-14.92	0.03	8.00	Complies

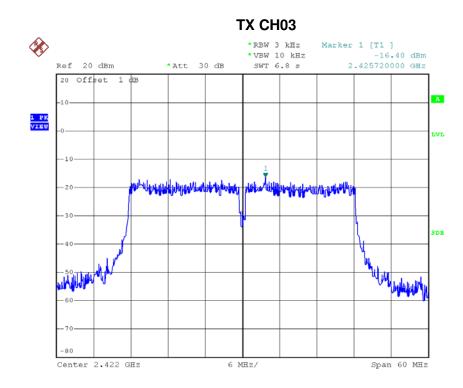


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# Test Mode : TX N-40M Mode\_CH03/06/09

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.40	0.02	8.00	Complies
2437	-17.21	0.02	8.00	Complies
2452	-15.16	0.03	8.00	Complies



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