



FCC Radio Test Report
FCC ID:OMOS85807

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

: 2809 Losey Blvd. South La Crosse, WI 54601. U.S A.

: Professional Weather Station

: La Crosse Technology Ltd.

: 1607C258

: S85807

Project No. Equipment Model Name Applicant Address

Date of Receipt : Jul. 26, 2016 Date of Test : Jul. 26, 2016 ~ Aug. 25, 2016 : Aug. 26, 2016 Issued Date Tested by : BTL Inc.

Testing Engineer

Technical Manager

(Shawn Xiao) avrid Mao

(David Mao)

Authorized Signatory (Steven Lu)

BTL INC.

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Declaration

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

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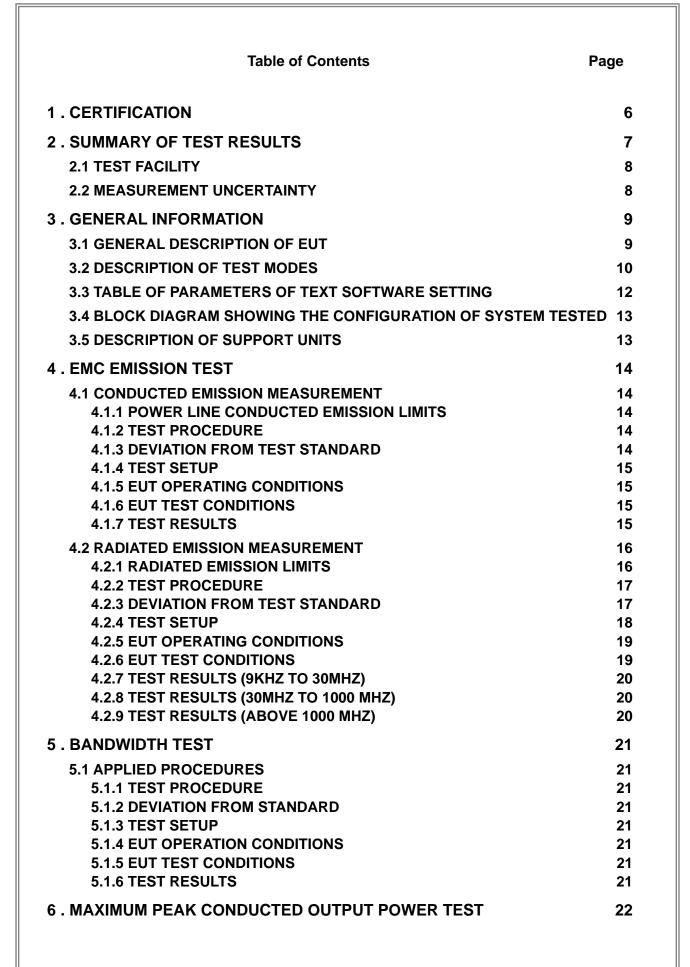
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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

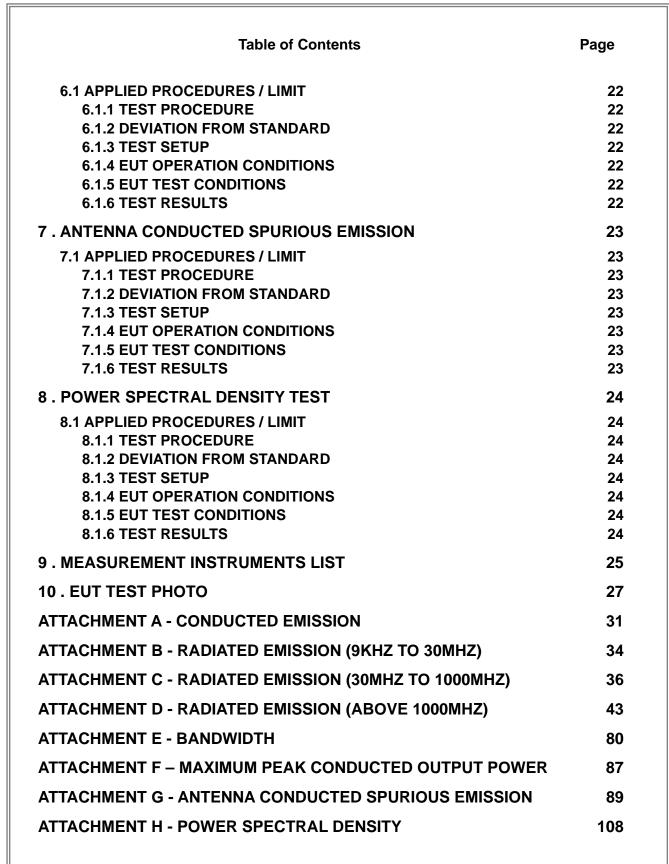
Limitation

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













REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1607C258	Original Issue.	Aug. 26, 2016





1. CERTIFICATION

Brand Name :	Professional Weather Station La Crosse Technology
Model Name:	
Applicant :	La Crosse Technology Ltd.
Manufacturer :	La Crosse Technology Ltd.
Address :	2809 Losey Blvd. South La Crosse, WI 54601. U.S A.
Date of Test :	Aug. 24, 2016 ~ Aug. 24, 2016
Test Sample :	Engineering Sample
	FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1607C258) 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					
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_{cispr} requirement.

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

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	ethod Measurement Frequency Range		U, (dB)				
		9KHz~30MHz	V	3.79				
		9KHz~30MHz	Н	3.57				
		30MHz ~ 200MHz	V	3.82				
		30MHz ~ 200MHz	H	3.78				
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	4.10				
DG-CB03	CIGEN	200MHz ~ 1,000MHz	Н	4.06				
		1GHz~18GHz	V	3.12				
						1GHz~18GHz	Н	3.68
		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	Professional Weather Station		
Brand Name	La Crosse Technology		
Model Name	S85807		
Model Difference	N/A		
	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: 13.38dBm 802.11g: 19.29dBm 802.11n(20MHz): 19.86dBm	
Power Source	 DC voltage supplied from AC/DC adapter. Manufacturer / Model: HUA XU ELECTRONICS FACTORY / HX06-0500500-AU Supplied from 3*AAA battery 		
Power Rating	1) I/P: 100-240V~50/60Hz 0.3A O/P: 5.0V 500mA 2) DC 4.5V		

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)

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)
1	La Crosse	N/A	Internal	N/A	2
	Technology		internal		2

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	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	

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



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

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

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

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)
 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

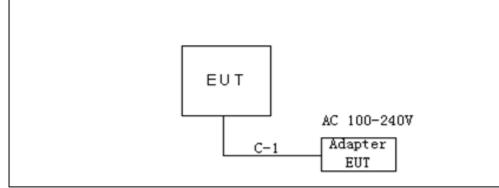
During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test software version		N/A	
Frequency (MHz)	2412	2437	2462
802.11b	8	4	252
802.11g	244	228	244
802.11n (20MHz)	244	224	244





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
C-1	NO	NO	1.8	Power Cable





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Fraguanay 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
- Margin Level = Measurement value Limit v

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

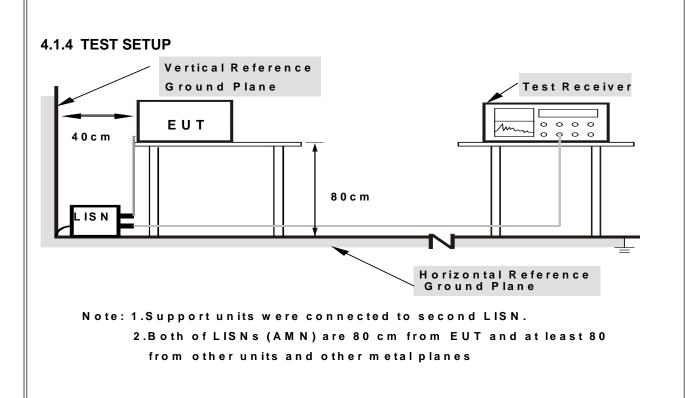
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.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







4.1.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.



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 at 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 at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting conducted emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

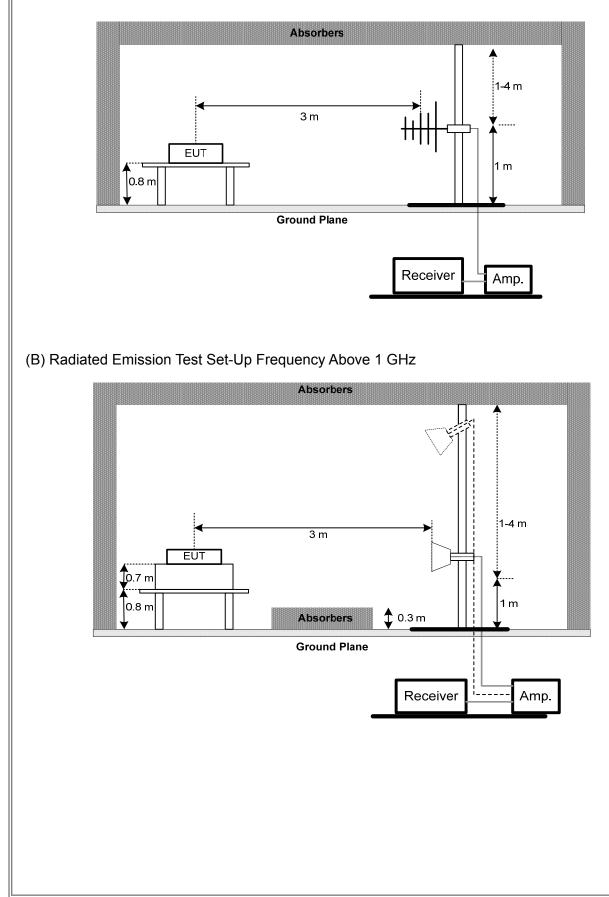
No deviation





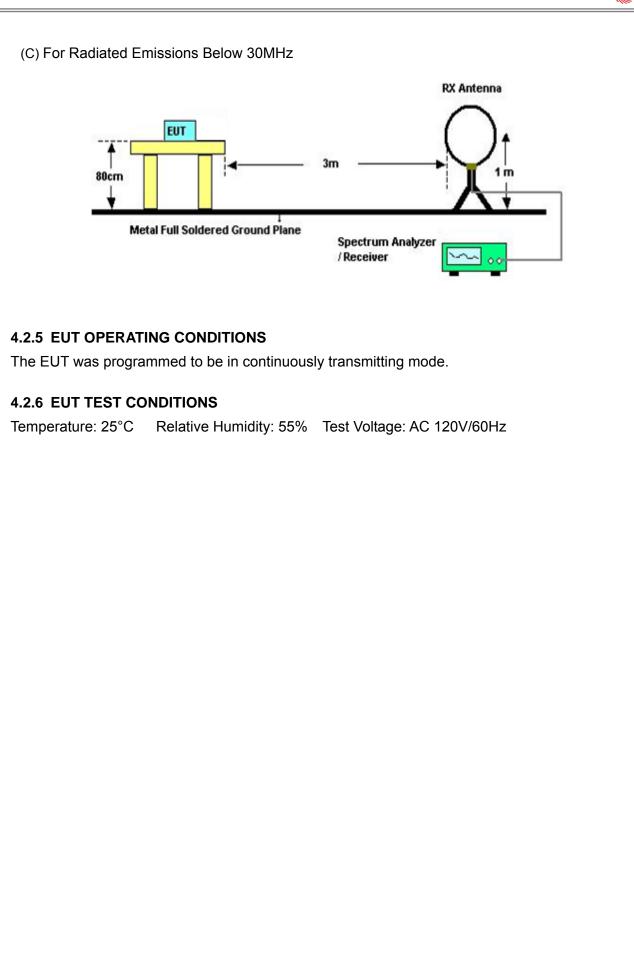
4.2.4 TEST SETUP

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











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	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	2400-2483.5	PASS	

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.



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 v03r05.

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.



7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.



8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section	Test Item	Frequency Range (MHz)	Result			
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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. 27, 2017		
2	LISN	R&S	ENV216	101447	Mar. 27, 2017		
3	Test Cable	emci	RG223(9KHz -30MHz)	C_17	Mar. 10, 2017		
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017		
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A		

	Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 27, 2017	
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016	
3	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016	
4	Test Cable	emci	LMR-400(30MH z-1GHz)	C-01	Jun. 26, 2017	
5	Control	СТ	SC100	N/A	N/A	
6	Position Control	MF	MF-7802	MF78020841 6	N/A	
7	Antenna	ETS	3115	00075789	Mar. 27, 2017	
8	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016	
9	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016	
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz - 26.5GHz)	C-68	Jun. 26, 2017	
11	Controller	СТ	SC100	N/A	N/A	
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017	
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017	
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016	
15	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	





	6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017	

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Oct. 26, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Oct. 26, 2016

Antenna Conducted Spurious Emission Measurement					
ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

Power Spectral Density Measurement					
ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 27, 2017

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

All calibration period of equipment list is one year.





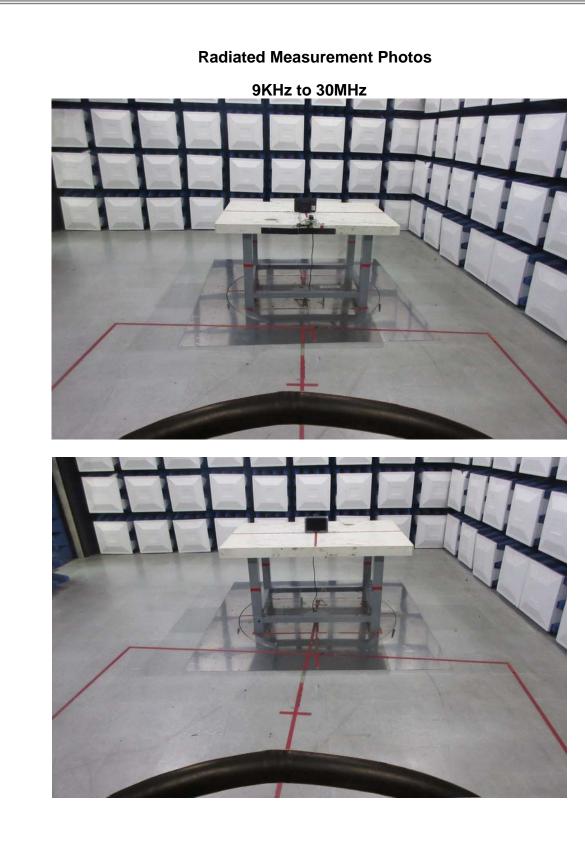
10. EUT TEST PHOTO

Conducted Measurement Photos











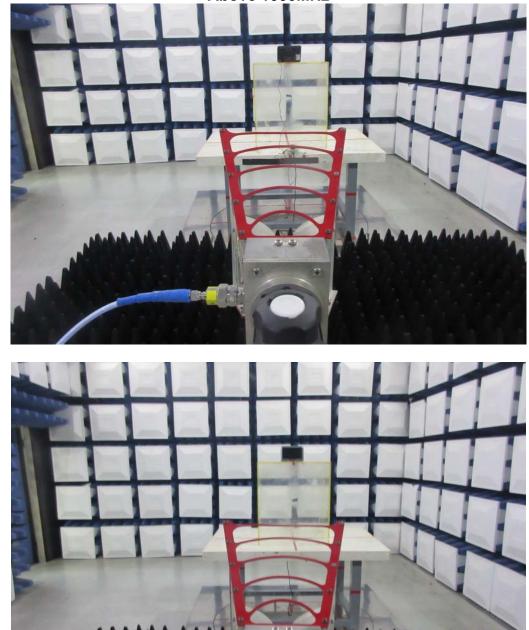






Radiated Measurement Photos



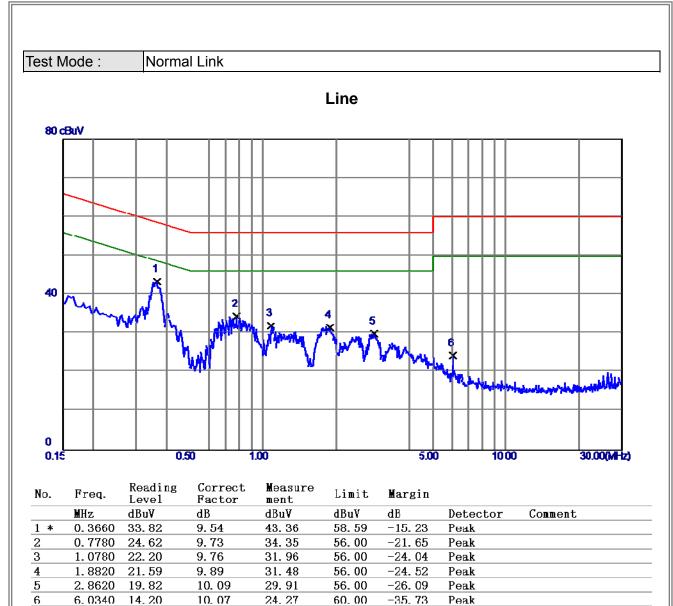




ATTACHMENT A - CONDUCTED EMISSION

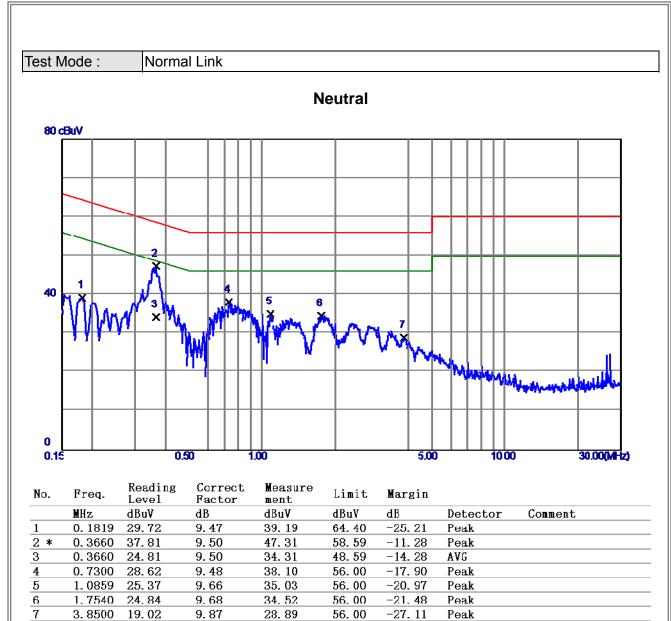
















ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)



Test Mode: TX B MODE CHANNEL 01							
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0155	0°	13.41	24.5850	37.9950	123.7976	-85.8026	AVG
0.0155	0°	14.28	24.5850	38.8650	143.7976	-104.9326	PEAK
0.0279	0°	6.73	23.7997	30.5297	118.6921	-88.1625	AVG
0.0279	0°	8.12	23.7997	31.9197	138.6921	-106.7725	PEAK
0.0371	0°	3.17	23.2170	26.3870	116.2167	-89.8297	AVG
0.0371	0°	5.58	23.2170	28.7970	136.2167	-107.4197	PEAK
0.0569	0°	1.16	22.2620	23.4220	112.5020	-89.0800	AVG
0.0569	0°	2.53	22.2620	24.7920	132.5020	-107.7100	PEAK
0.5087	0°	19.36	19.8278	39.1878	73.4750	-34.2872	QP
1.9533	0°	23.71	19.5047	43.2147	69.5400	-26.3253	QP
Frequency	Ant	Read level	Factor	Measured(FS)	Limit	Margin	Note
(MHz)	0°/90°	dBuV/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
0.0124	90°	13.16	24.3000	37.4600	125.7358	-88.2758	AVG
0.0124	90°	14.89	24.3000	39.1900	145.7358	-106.5458	PEAK
0.0271	90°	7.28	23.8503	31.1303	118.9448	-87.8145	AVG
0.0271	90°	8.94	23.8503	32.7903	138.9448	-106.1545	PEAK
0.0429	90°	5.23	22.8497	28.0797	114.9551	-86.8754	AVG
0.0429	90°	6.19	22.8497	29.0397	134.9551	-105.9154	PEAK
0.0577	90°	1.54	22.2460	23.7860	112.3807	-88.5947	AVG
0.0577	90°	2.86	22.2460	25.1060	132.3807	-107.2747	PEAK
0.6221	90°	22.17	20.1907	42.3607	71.7270	-29.3663	QP
2.0551	90°	24.56	19.4669	44.0269	69.5400	-25.5131	QP

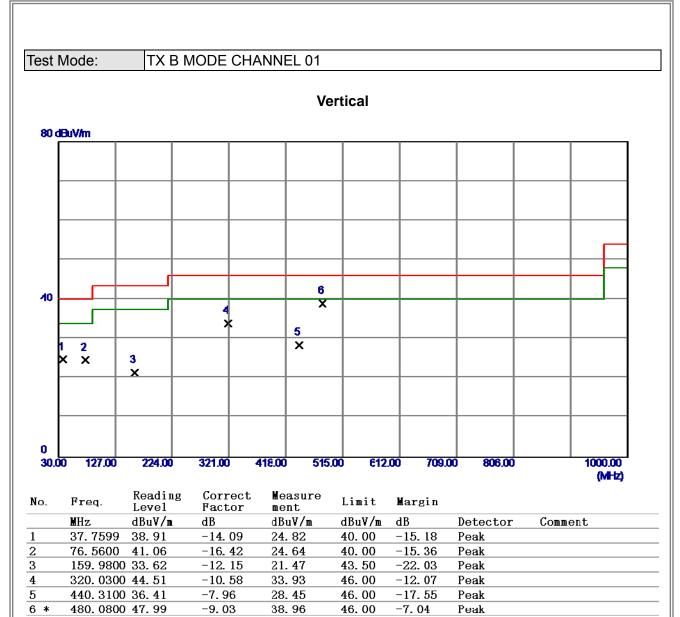




ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

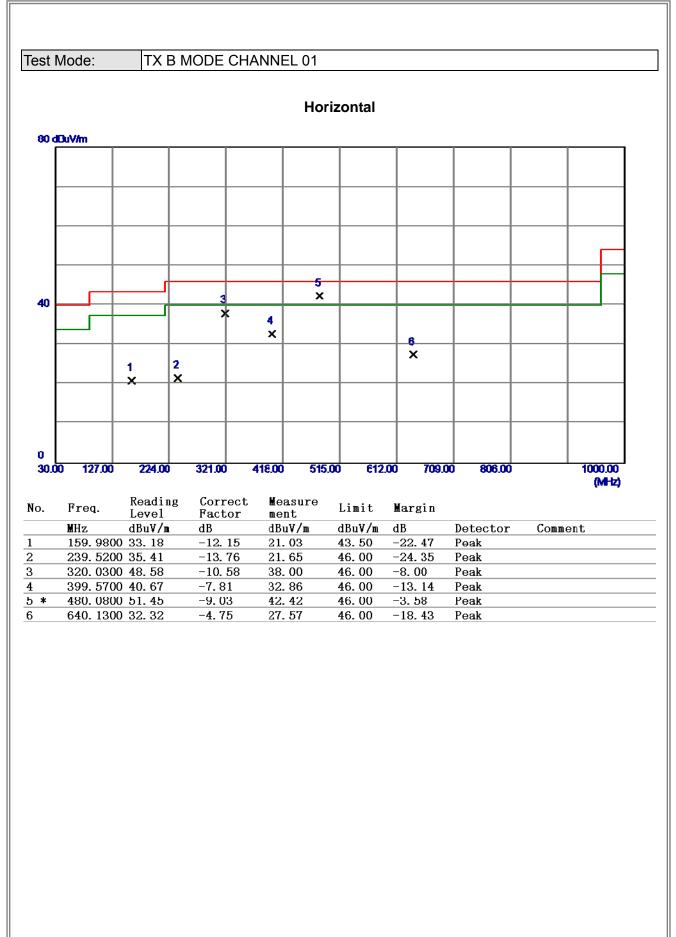






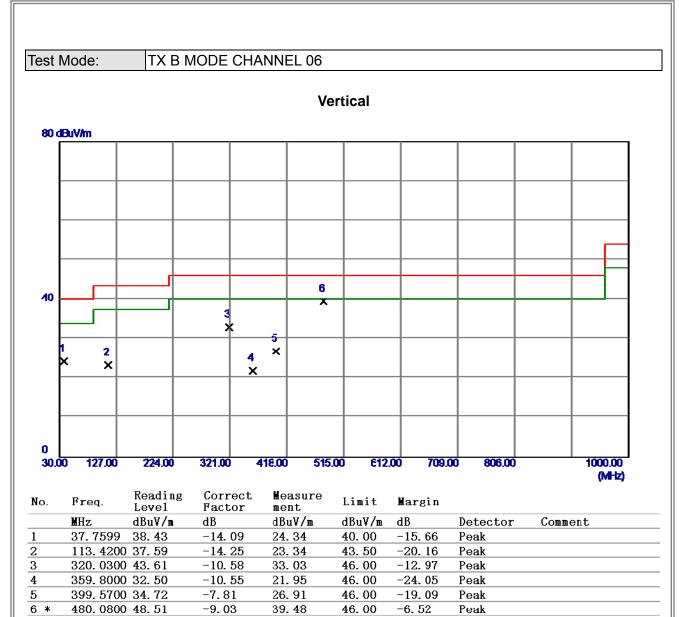






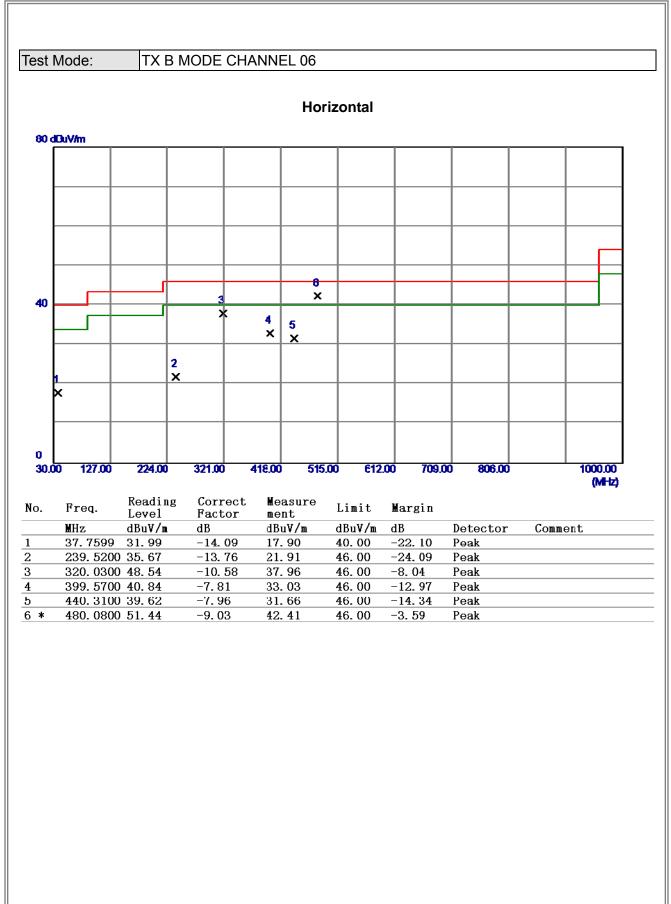






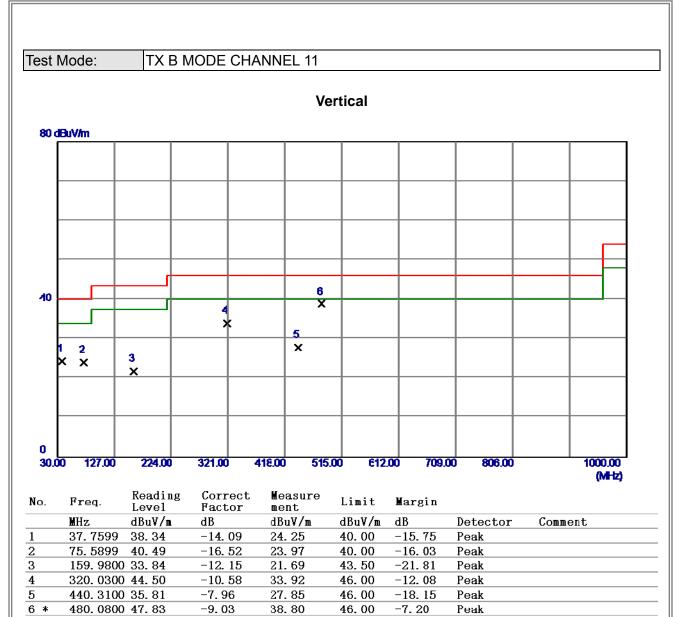






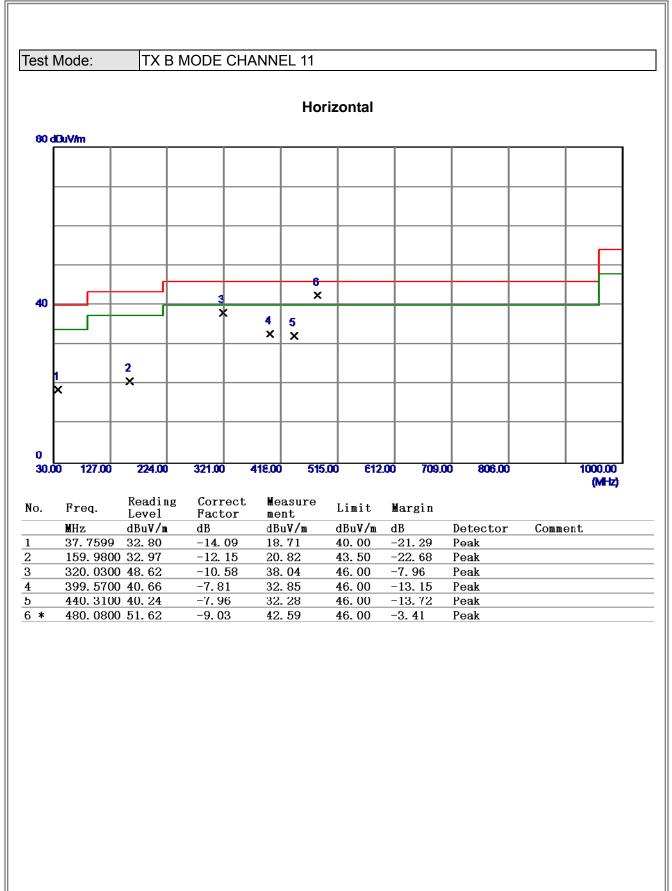










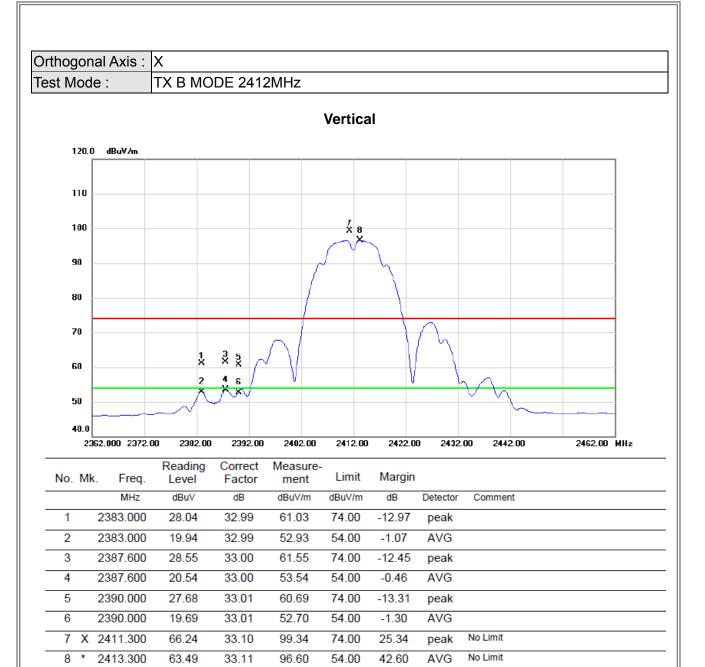




ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

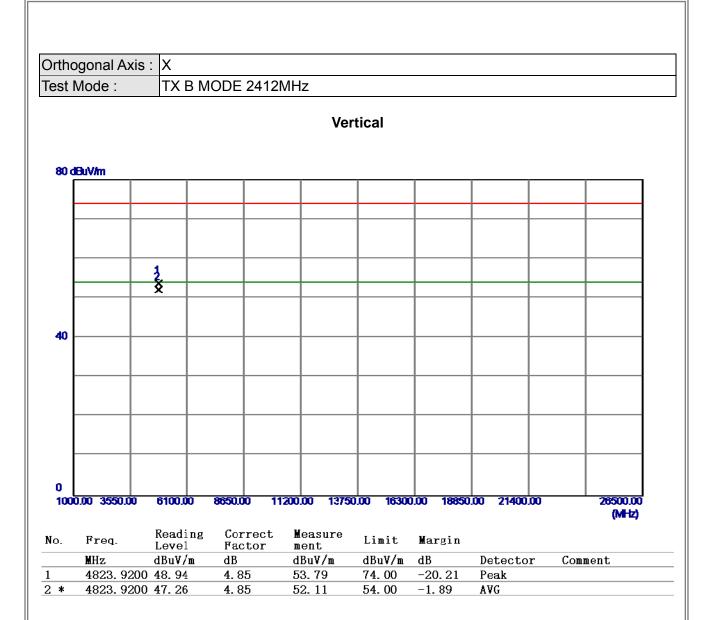






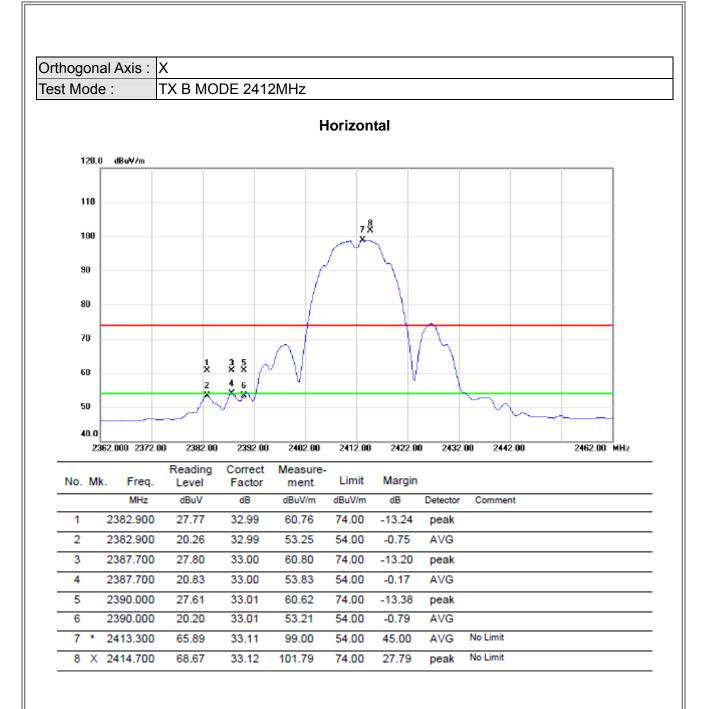






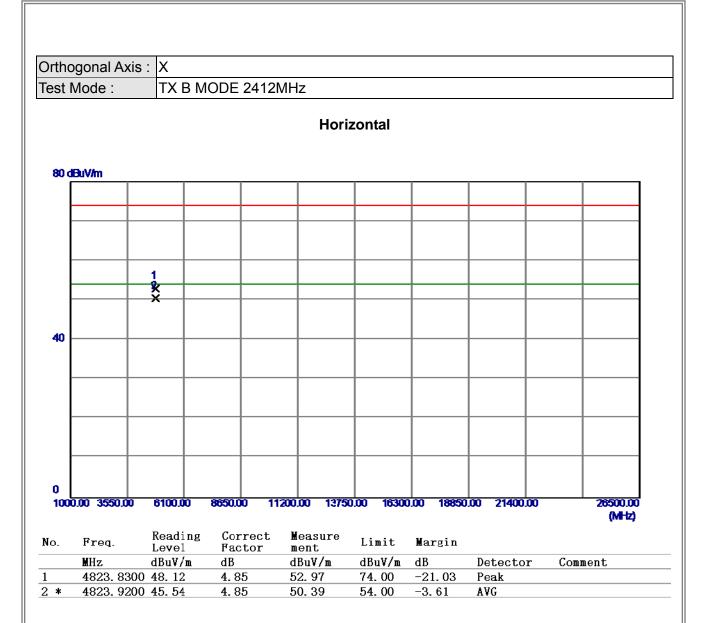






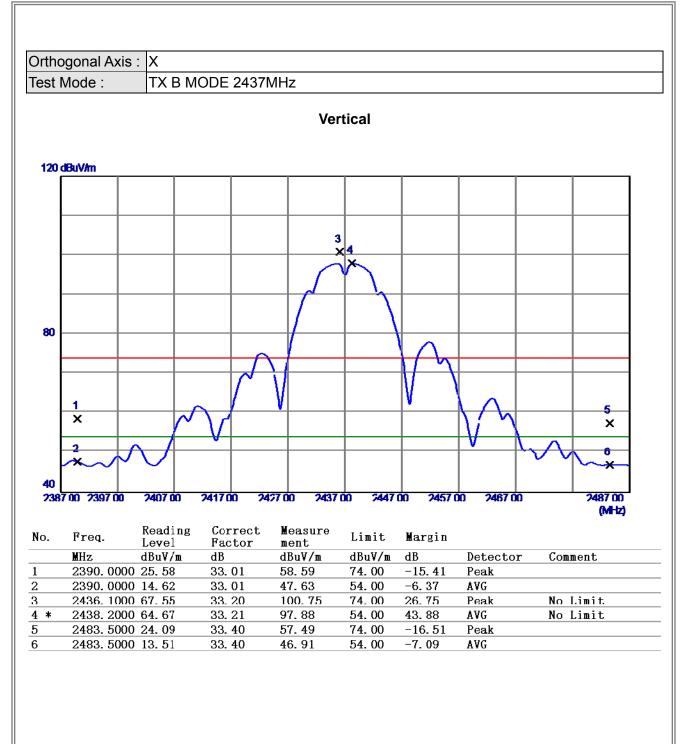






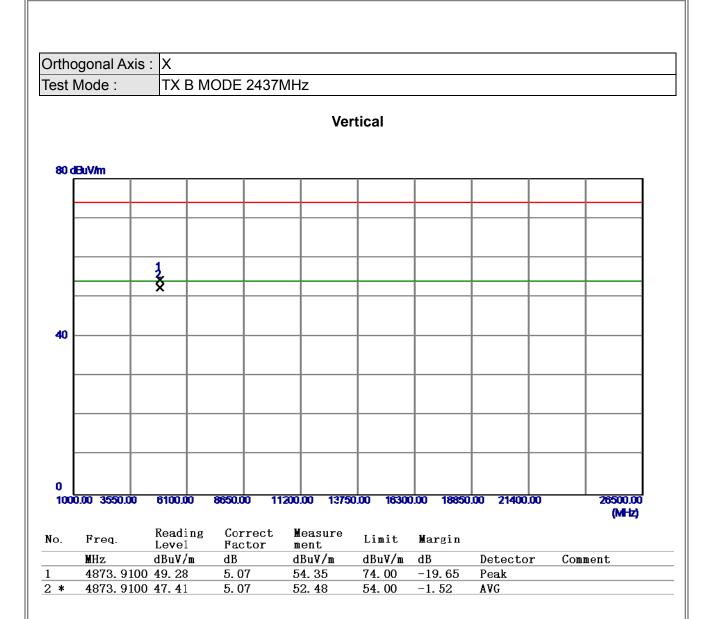






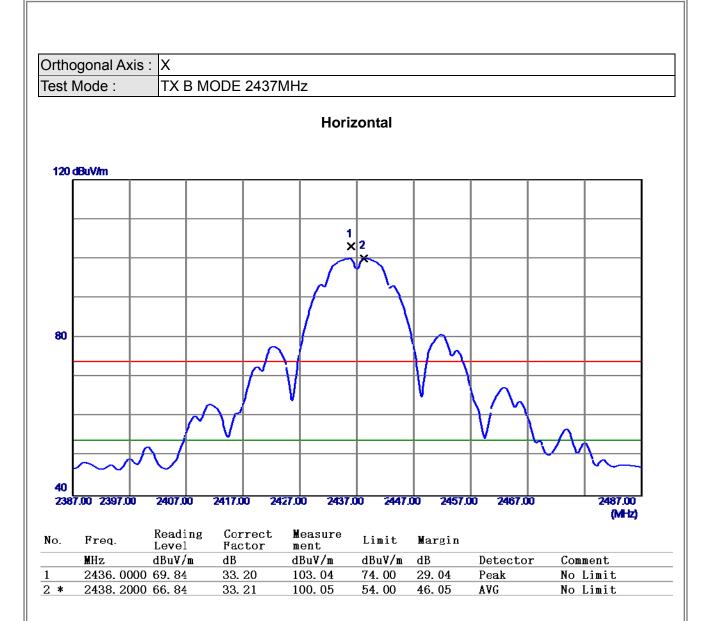






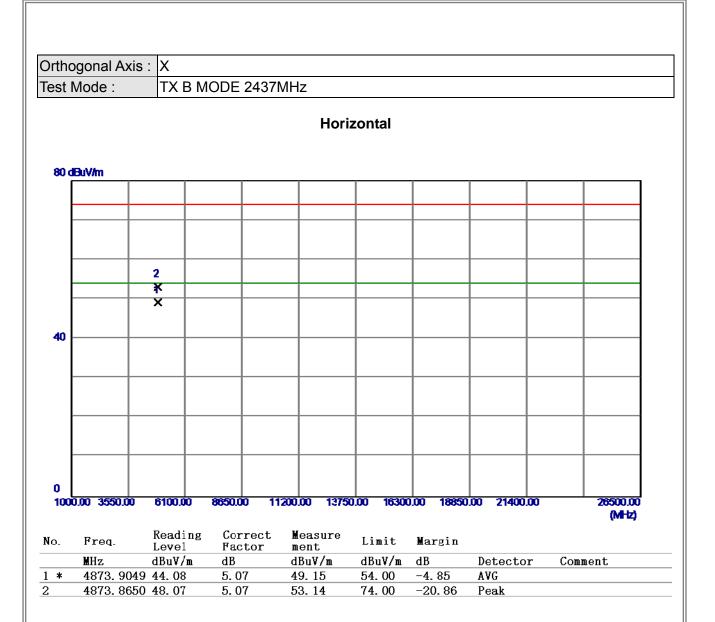






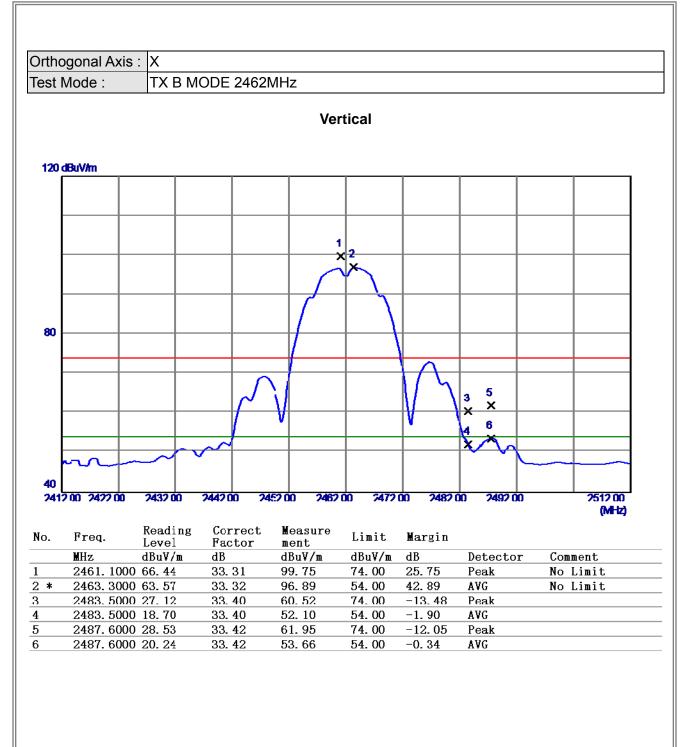






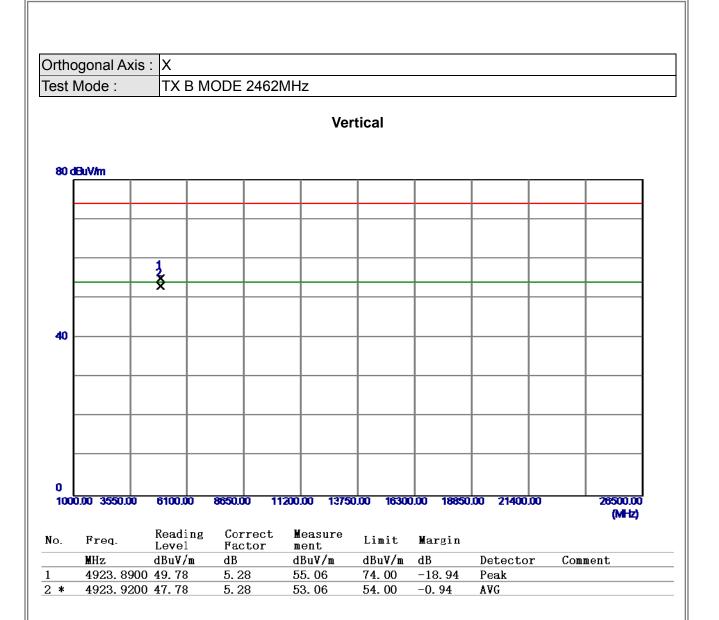






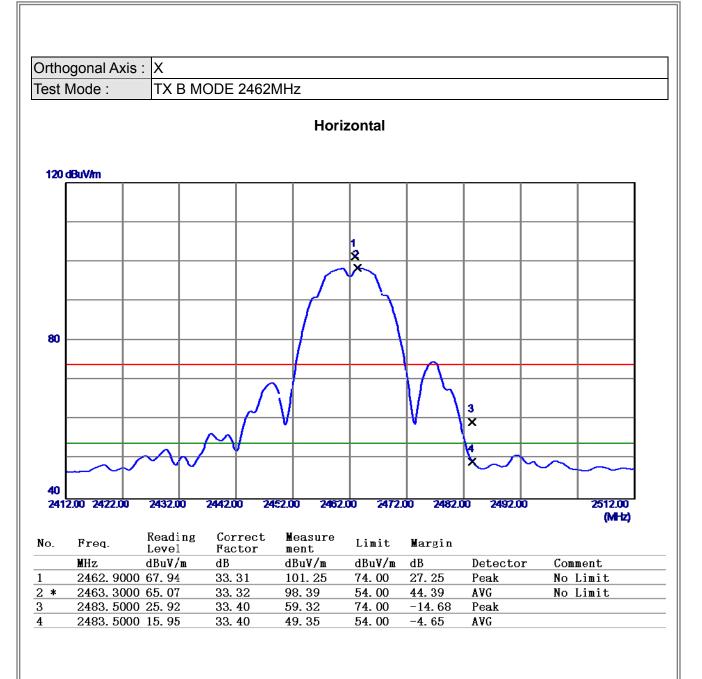






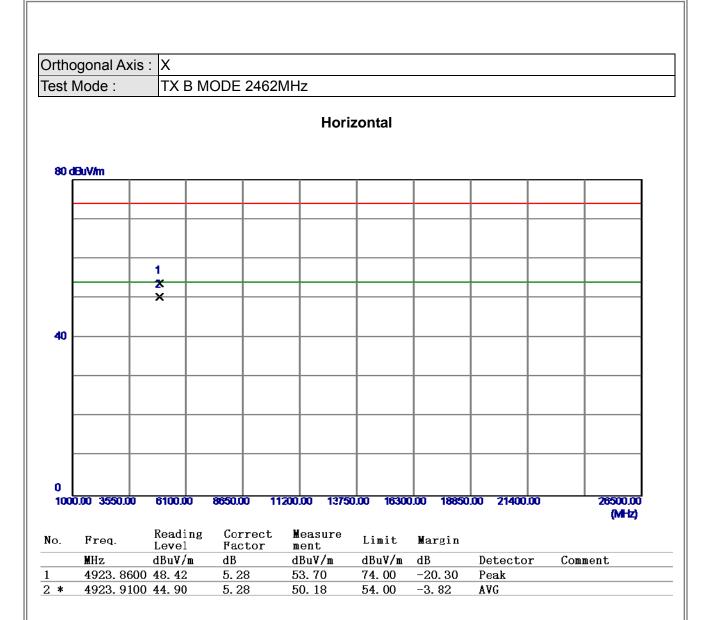






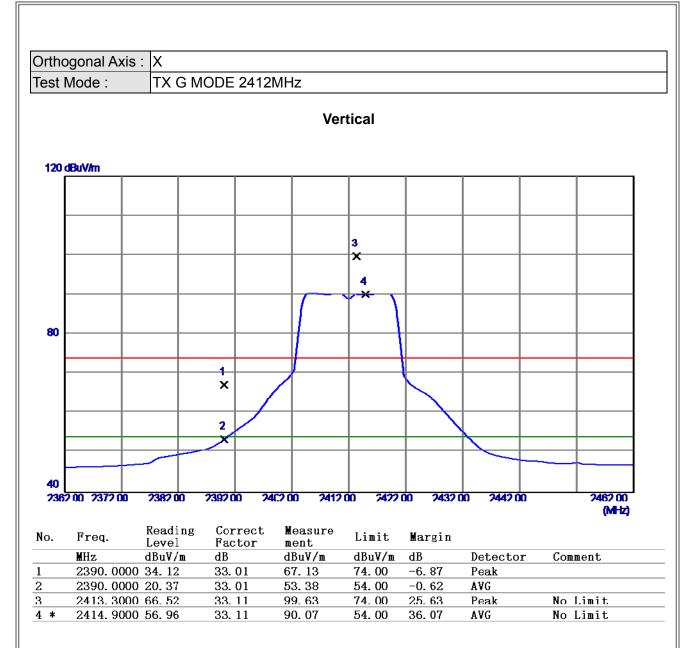






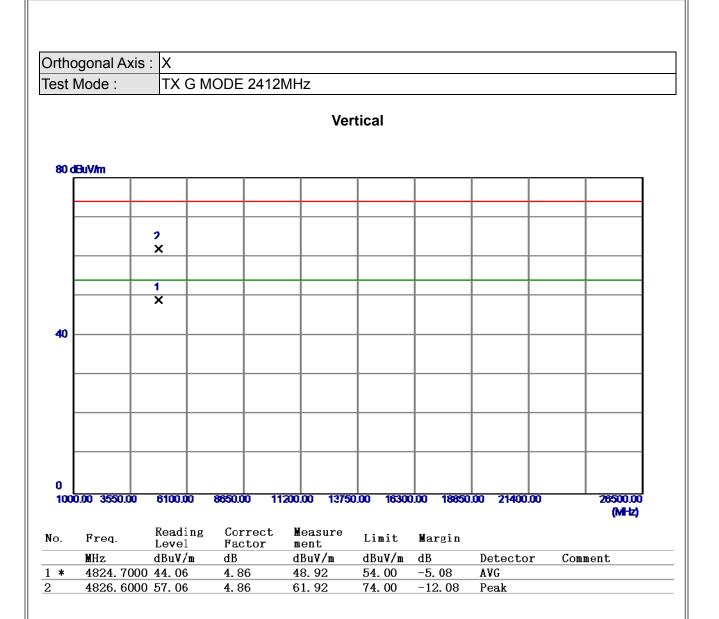






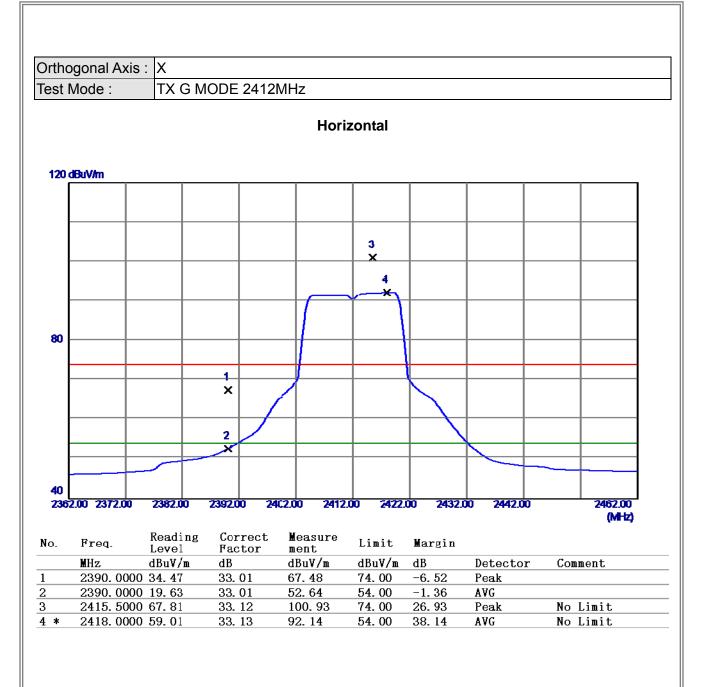






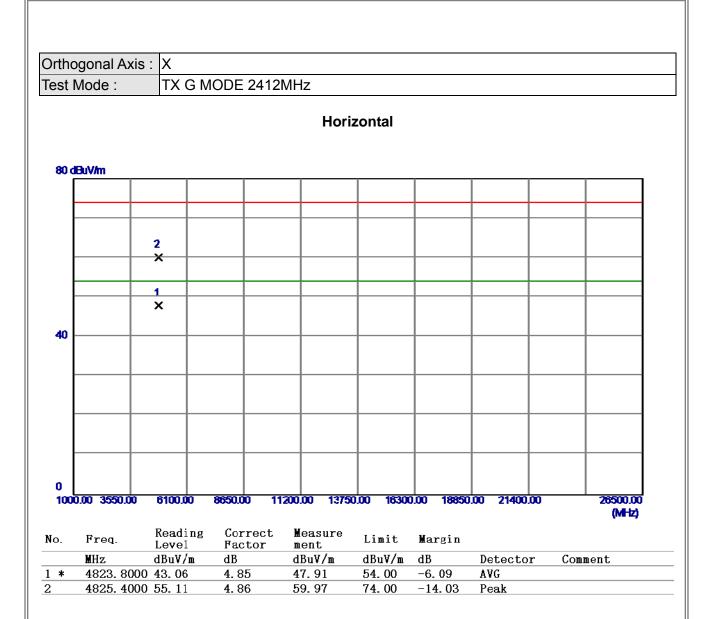






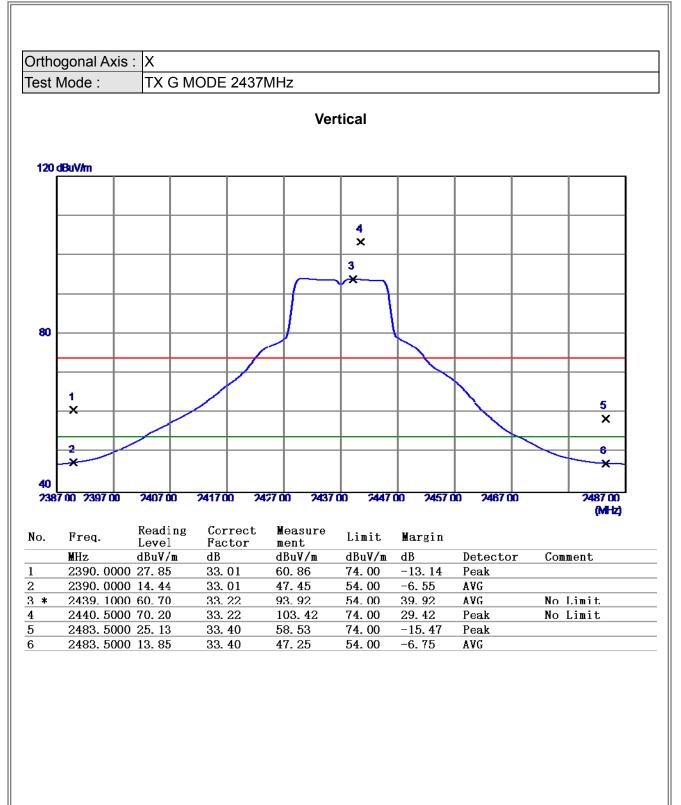






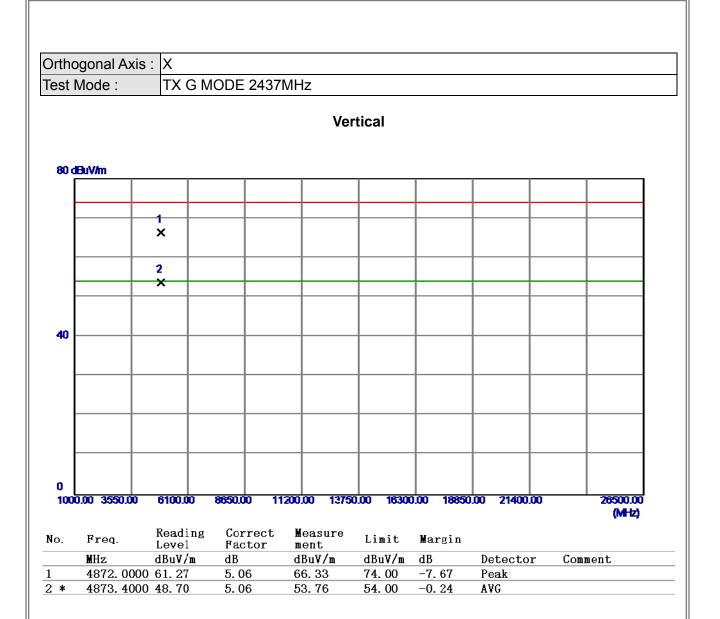






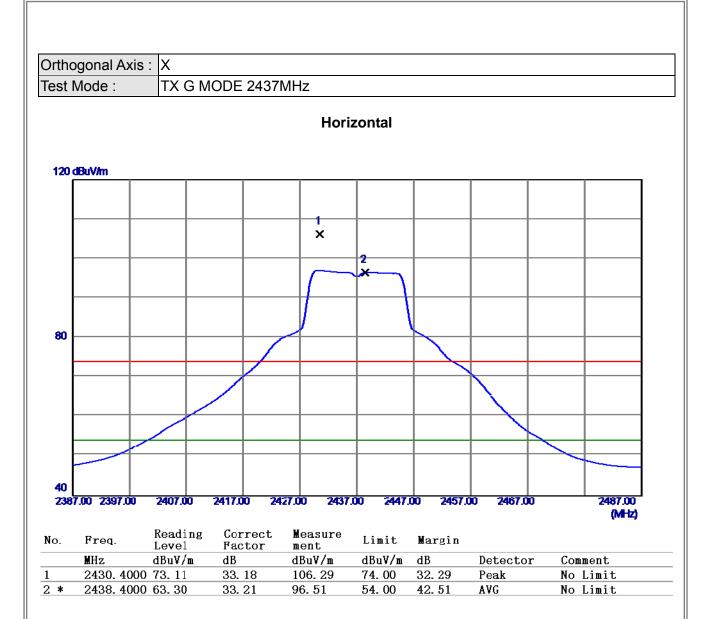






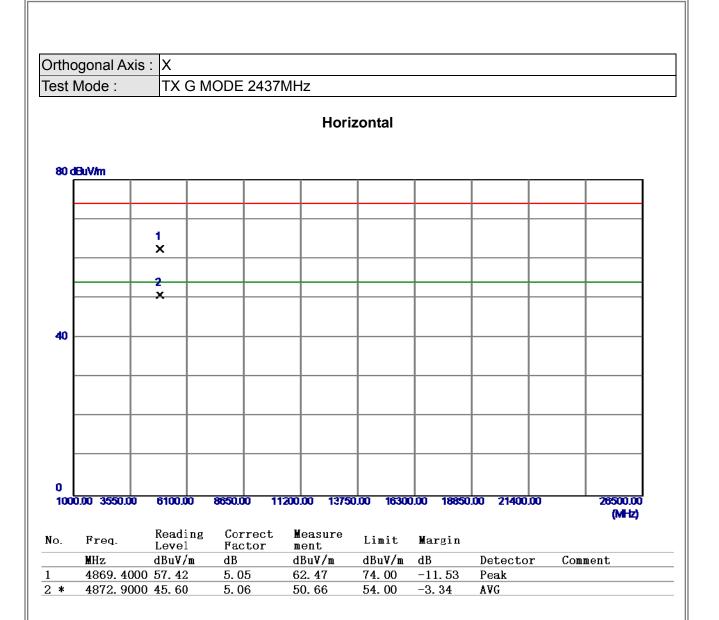






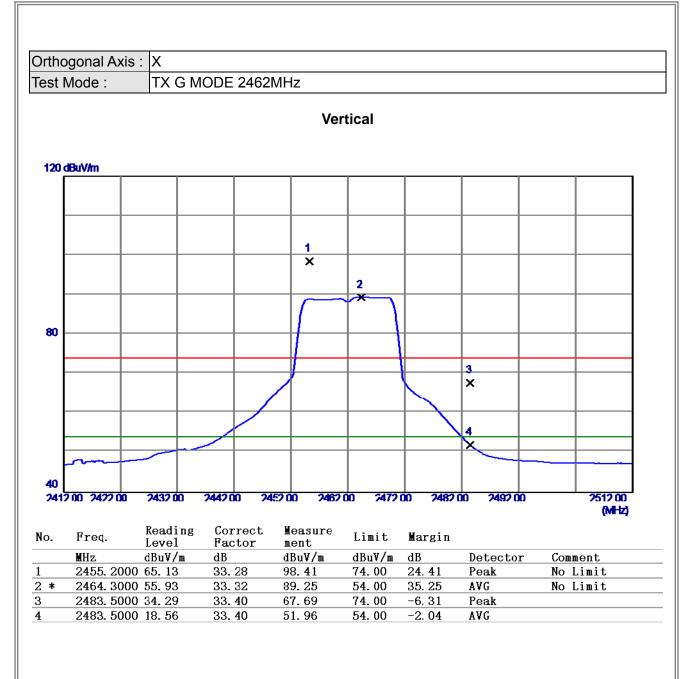






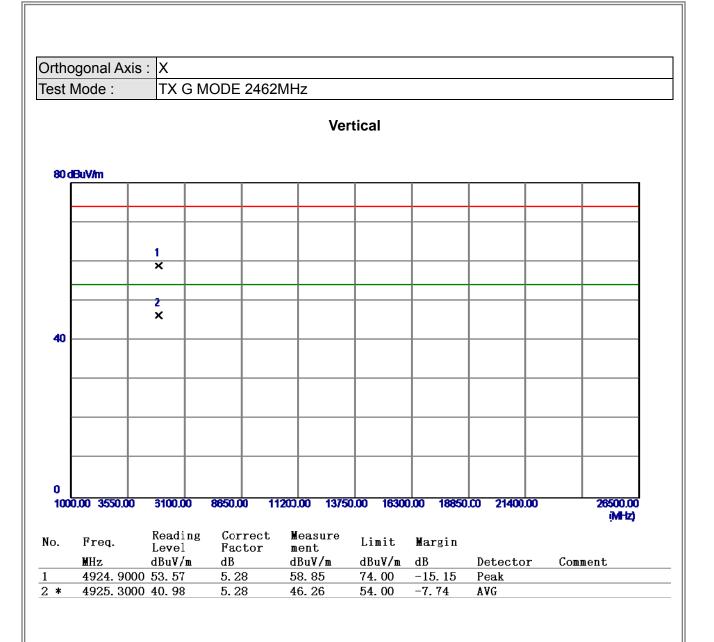






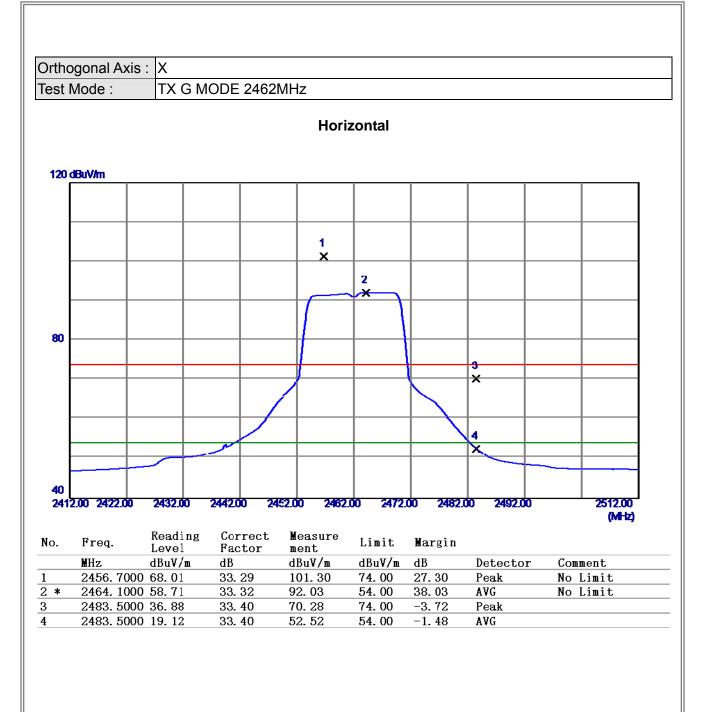






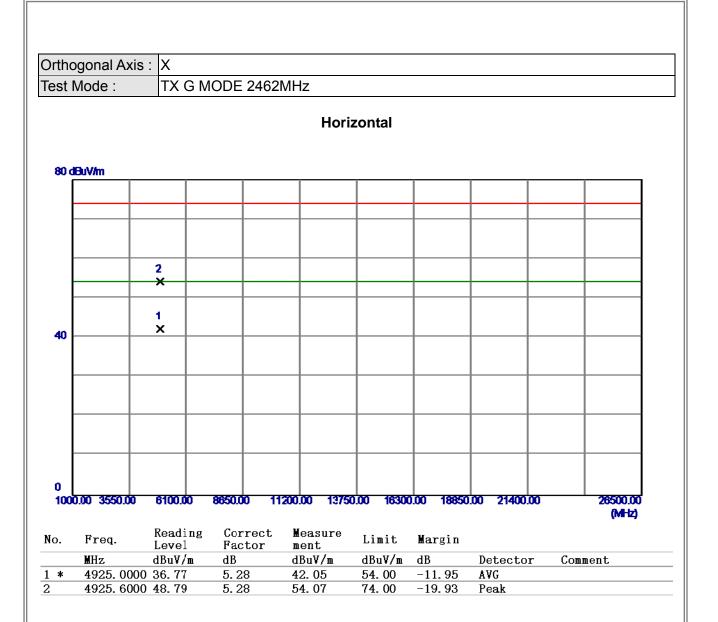






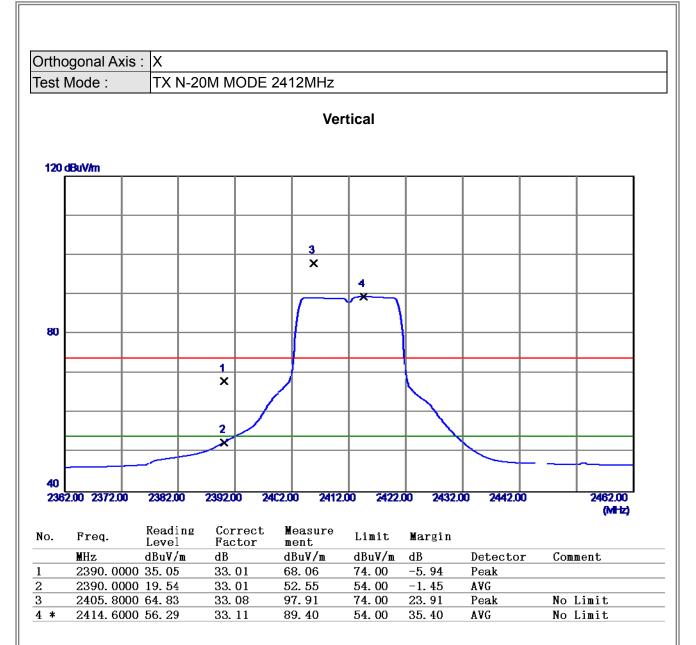






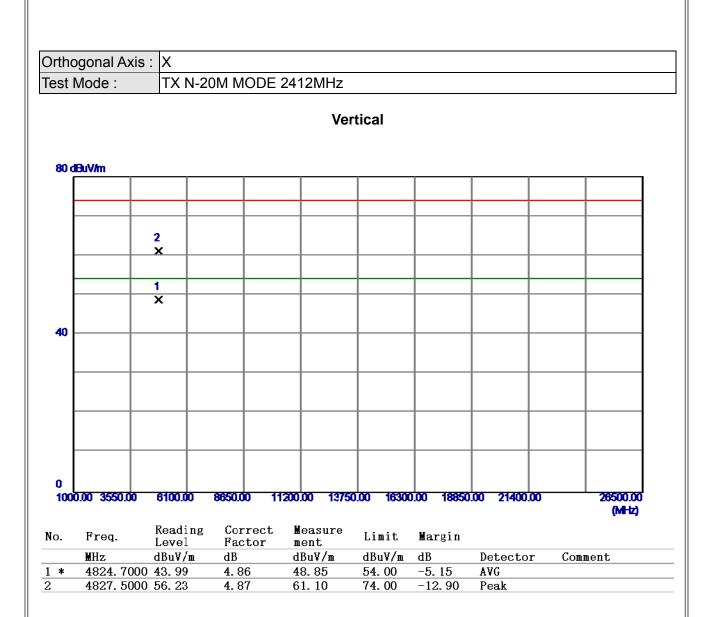






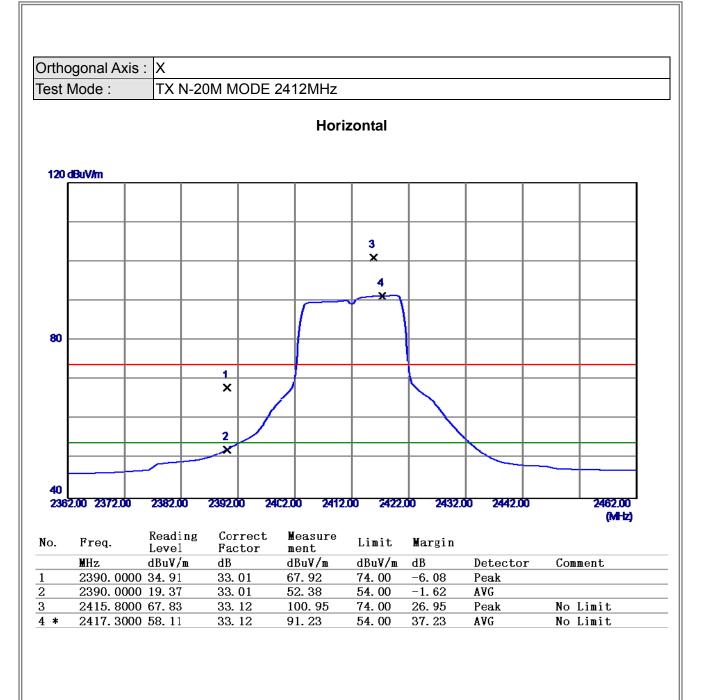






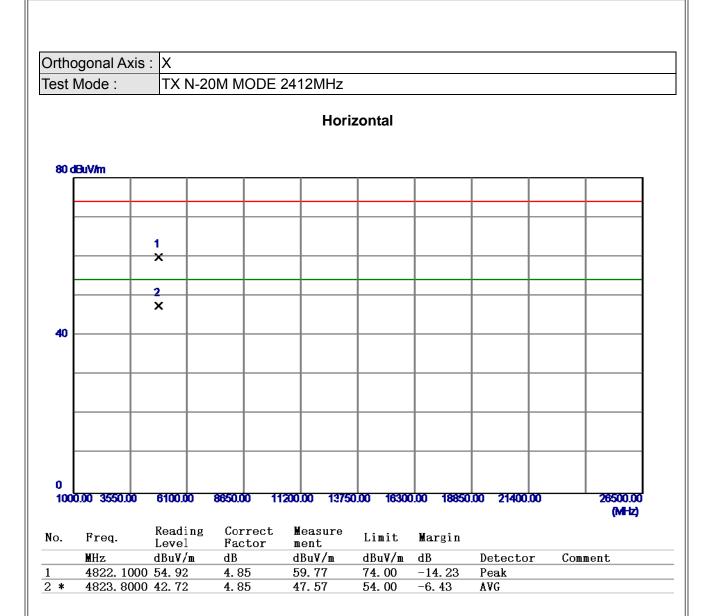






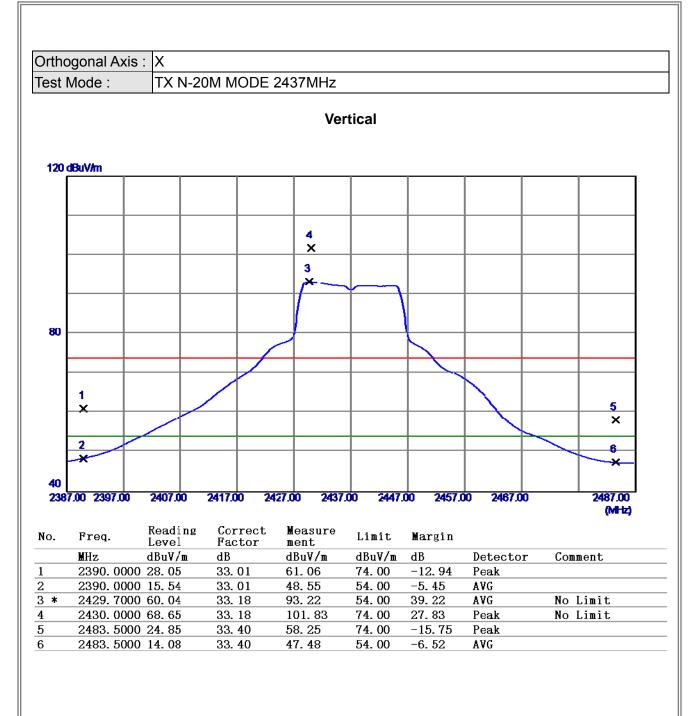






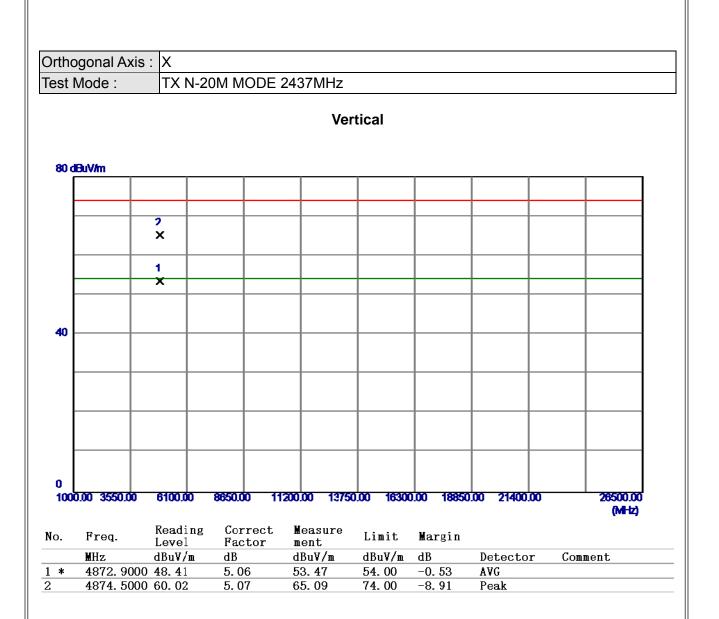






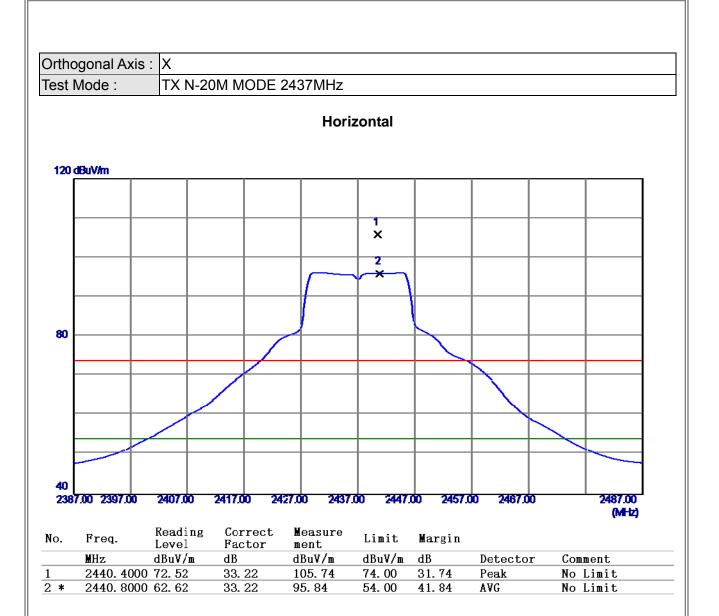






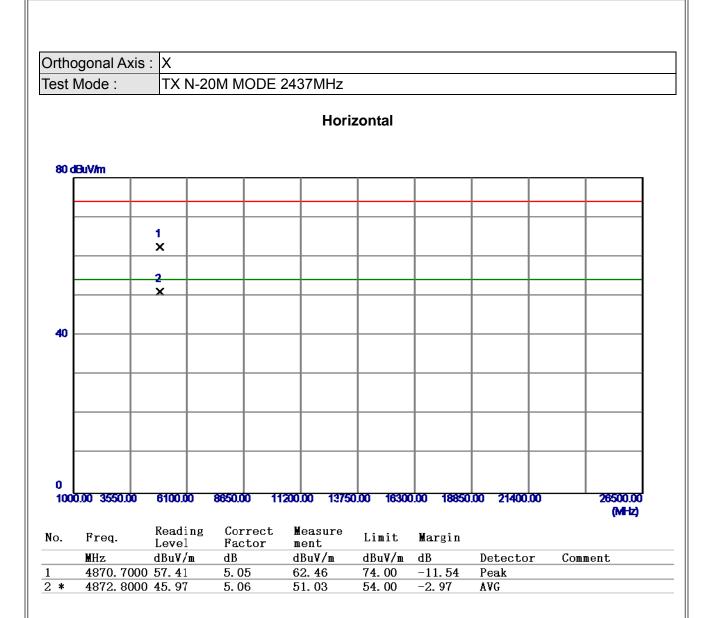






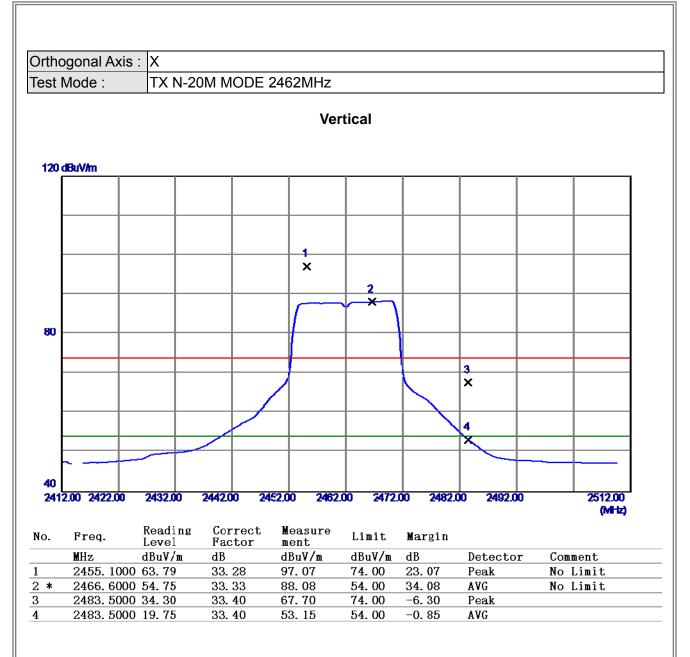






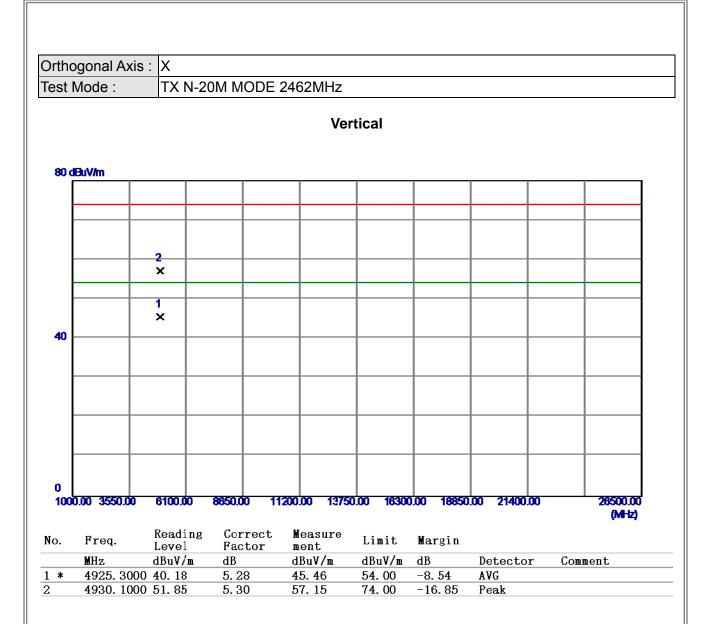






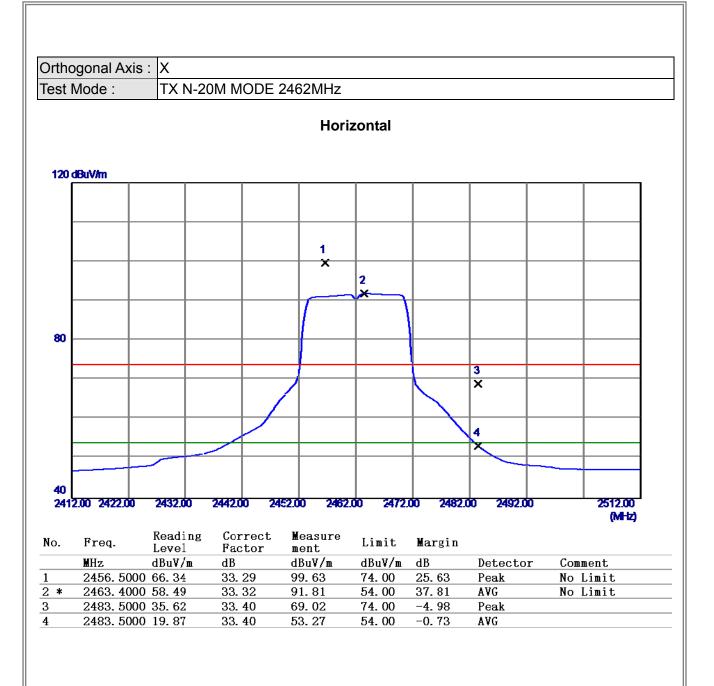






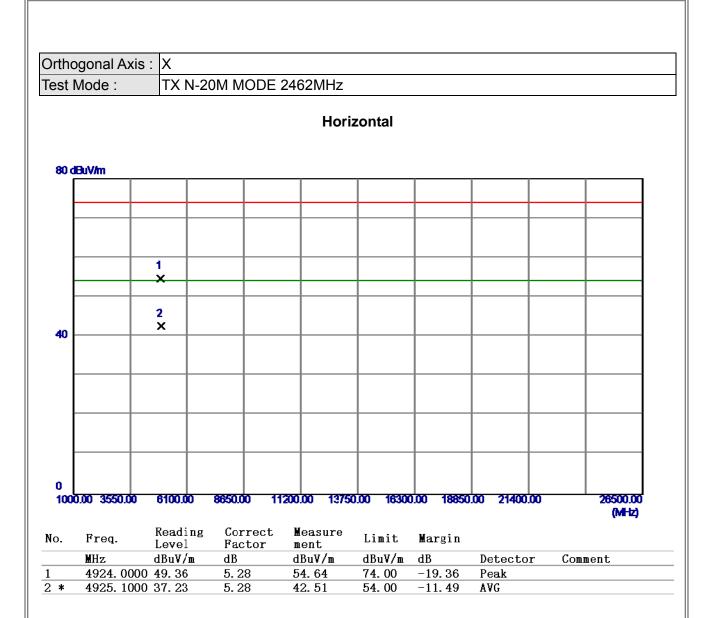














ATTACHMENT E - BANDWIDTH

Report No.: BTL-FCCP-1-1607C258



Test Mode : TX B Mode_CH01/06/11

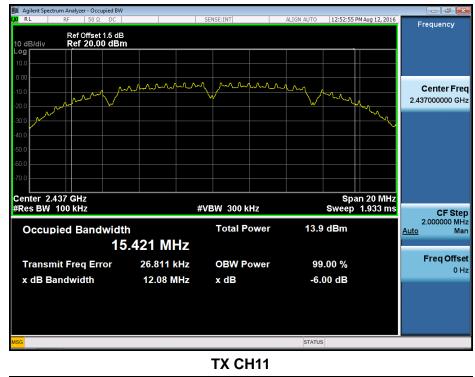
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	12.06	15.44	500	Complies
2437	12.08	15.42	500	Complies
2462	12.06	15.44	500	Complies











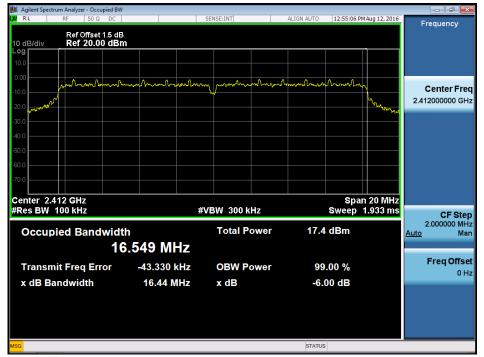




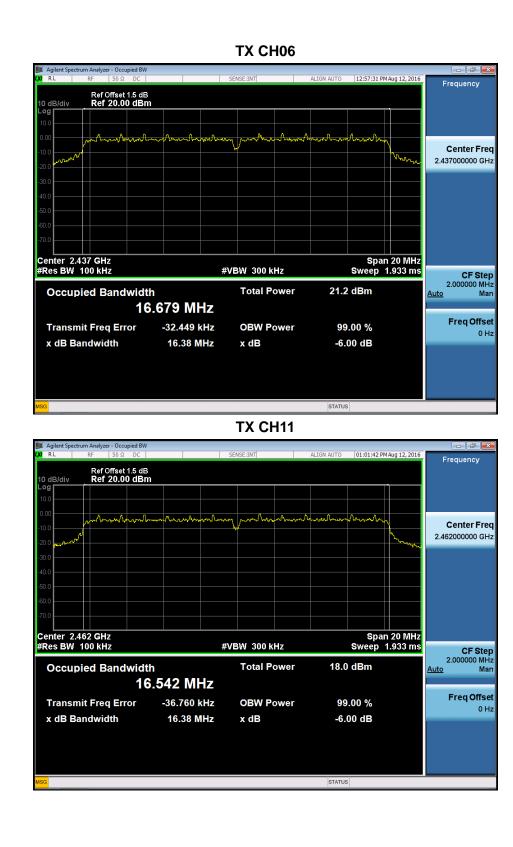
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.44	16.55	500	Complies
2437	16.38	16.68	500	Complies
2462	16.38	16.54	500	Complies

TX CH01



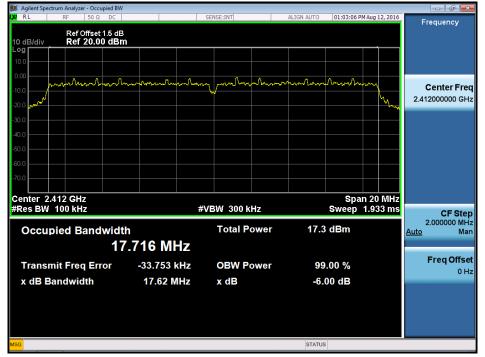






	Test Mode : T	X N-20MHz Mode_CH01	/06/11	
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.72	500	Complies
2437	17.58	17.78	500	Complies
2462	17.63	17.72	500	Complies











ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER



	Те	st Mode :TX B Mo	de_CH01/06/11		
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result
2412	9.59	0.00910	30.00	1.00	Complies
2437	10.63	0.01156	30.00	1.00	Complies
2462	13.38	0.02178	30.00	1.00	Complies

	Те	st Mode :TX G Mo	de_CH01/06/11		
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result
2412	19.29	0.08492	30.00	1.00	Complies
2437	19.18	0.08279	30.00	1.00	Complies
2462	19.25	0.08414	30.00	1.00	Complies

	Tes	t Mode :TX N20 M	ode_CH01/06/11		
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result
2412	19.57	0.09057	30.00	1.00	Complies
2437	19.39	0.08690	30.00	1.00	Complies
2462	19.86	0.09683	30.00	1.00	Complies

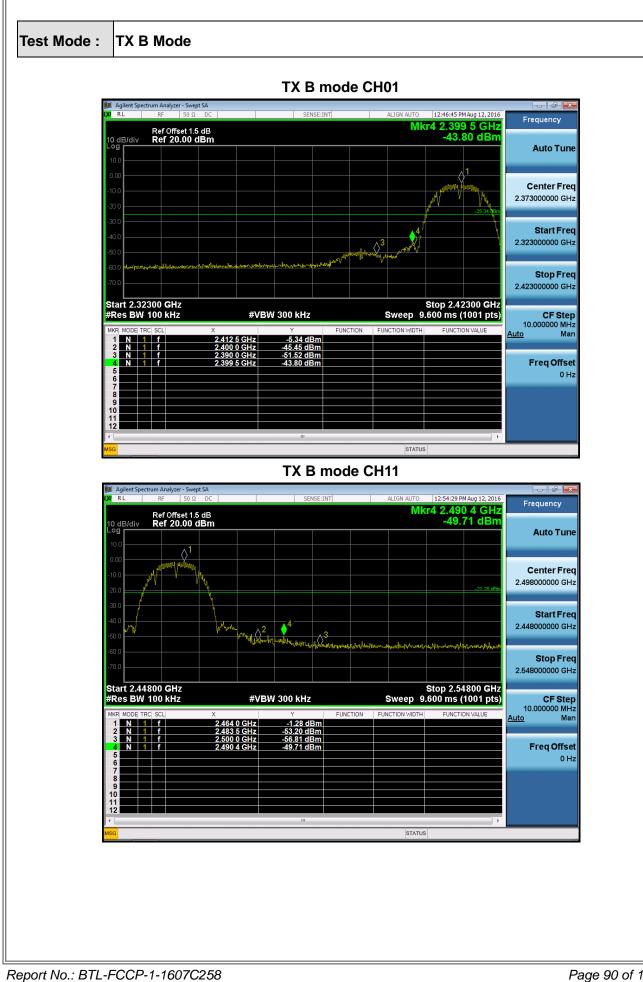


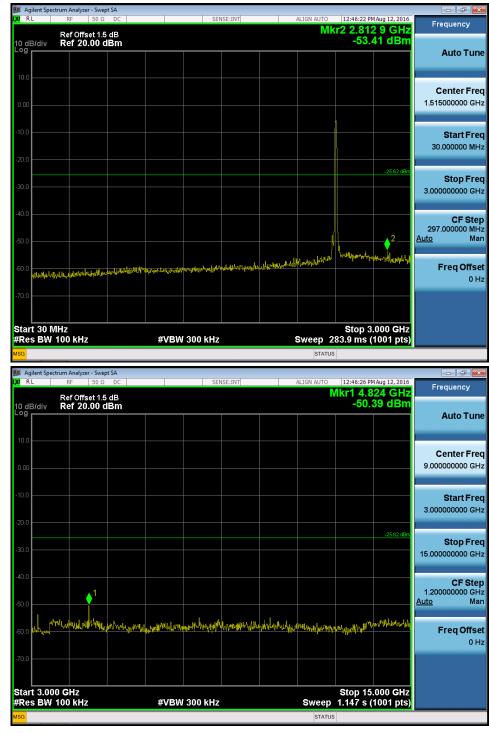


ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION









TX B mode CH01 (10 Harmonic of the frequency)



專業檢測 輝煌30平

	ctrum Analyzer - Swe									
RL	RF 50 Ω			SEN	ISE:INT	1	ALIGN AUTO		MAug 12, 2016	Frequency
) dB/div	Ref Offset 1.5 Ref 20.00 (5 dB dBm						-51.	30 dBm	
										Auto Tu
0.0										
										Center Fr
.00										20.75000000 G
0.0										Start Fi
										15.00000000 0
0.0										
									-25.62 dBm	Oton E
0.0										Stop Fi
										26.500000000
0.0										
										CF S 1.150000000 (
0.0									1	1.15000000 0 Auto
			- lines		t bilde	uta hakatu	- Marthalash	hermon that h	and for a strange	
o.o WWWWW	Numerical	And the part of the set	and the second	AMANYAHAMA	hali and an	Poster, Marian and	Han AL	a providence and a second		Freq Off
										riegon
0.0										
tart 15.0	000 GHz							Stop 26	.500 GHz	
	100 kHz		#VBW	300 kHz			Sweep	1.099 s (1001 pts)	
G							STATUS			

TX B mode CH06 (10 Harmonic of the frequency)

🎉 Agilent Spe	trum Analyzer - Swep	it SA								
LXU RL	RF 50 Ω			SEN	NSE:INT		ALIGN AUTO		M Aug 12, 2016 7 1 GHz	Frequency
10 dB/div Log	Ref Offset 1.5 Ref 20.00 d	dB I Bm						-52.	72 dBm	Auto Tune
10.0										
										Center Freq 1.515000000 GHz
0.00										
-10.0										Start Freq 30.000000 MHz
-20.0									-23.76 dBm	Oton Eron
-30.0										Stop Freq 3.000000000 GHz
-40.0									2	CF Step 297.000000 MHz Auto Man
	nnnaluterman		A	- nd all in the second shift	han Reiterster	anguntula	(meeting) Production	uninharyon	man hunder	Freq Offset
	ninponthelder/hoursel	n al an	Aurolinia, Lillia, 🧸	aliandan I dhana.						0 Hz
-70.0										
Start 30 M #Res BW			#VBW	300 kHz			Sweep 2	Stop 3 83.9 ms (.000 GHz 1001 pts)	
MSG							STATUS			



	ectrum Analyzer - Swep		1		ICC-INT	1		10.52.11.5	MAue 12, 201 5	
XI RL	RF 50 Ω			SEI	NSE:INT		ALIGN AUTO		MAug 12, 2016	Frequency
10 dB/div	Ref Offset 1.5 Ref 20.00 c								96 dBm	
										Auto Tune
10.0										
										Center Fred
0.00										9.000000000 GHz
-10.0										Start Free
										3.00000000 GH:
-20.0									-23.76 dBm	
-30.0										Stop Free
										15.00000000 GH
-40.0										CE Stor
	▲1									CF Step 1.20000000 GH:
-50.0										<u>Auto</u> Mar
	with work and strong	Manula was		which	n.a ethretultet of	Station and Stationary Stationary Stationary Stationary Stationary Stationary Stationary Stationary Stationary S	Anderstand	Mar university	www.	FO <i>f</i>
-60.0		a	NAME OF BRIT	And a subject	and the ride.	- Maria - Maria		an the second		Freq Offset 0 Hz
-70.0										
-10.0										
								8 4 4 F		
Start 3.0 #Res BW	00 GHZ / 100 kHz		#VBW	300 kHz			Sweep		.000 GHz (1001 pts)	
450										
							STATUS			
M Agilent Sp	ectrum Analyzer - Swep	pt SA					STATUS			
📕 Agilent Spi 🗶 R L	ectrum Analyzer - Swep RF 50 Ω			SEI	NSE:INT		ALIGN AUTO	12:53:17 P	M Aug 12, 2016	Frequency
<mark>X/</mark> RL 10 dB/div	RF 50 Ω Ref Offset 1.5	DC		SEI	NSE:INT		ALIGN AUTO	12:53:17 PI)52 GHz	
XIRL	RF 50 Ω	DC		SEI	NSE:INT		ALIGN AUTO	12:53:17 PI		Frequency
0 dB/div	RF 50 Ω Ref Offset 1.5	DC		SET	VSE:INT		ALIGN AUTO	12:53:17 PI)52 GHz	Frequency
(<mark>/</mark> RL	RF 50 Ω Ref Offset 1.5	DC		SET	VSE:INT		ALIGN AUTO	12:53:17 PI)52 GHz	Frequency Auto Tune
0 dB/div -0 g 10.0	RF 50 Ω Ref Offset 1.5	DC		SE	VSE:INT		ALIGN AUTO	12:53:17 PI)52 GHz	Frequency Auto Tune Center Freq
0 dB/div - ^{Og} 10.0	RF 50 Ω Ref Offset 1.5	DC		SE	NSE:INT		ALIGN AUTO	12:53:17 PI)52 GHz	Frequency Auto Tune Center Free
0 dB/div - 0 g 10.0	RF 50 Ω Ref Offset 1.5	DC		SE	VSE:INT		ALIGN AUTO	12:53:17 PI)52 GHz	Frequency Auto Tune Center Free 20.750000000 GH2
KI RL 10 dB/div -og	RF 50 Ω Ref Offset 1.5	DC		SEF	NSE:INT		ALIGN AUTO	12:53:17 PI)52 GHz	Frequency Auto Tune Center Frec 20.75000000 GH2 Start Frec
10 dB/div - og 10.0 - 10.0	RF 50 Ω Ref Offset 1.5	DC		SEP	NSE:INT		ALIGN AUTO	12:53:17 PI)52 GHz	Frequency Auto Tune Center Frec 20.75000000 GH2 Start Frec
10 dB/div 0 dB/div 10.0 .000 .10.0 .20.0	RF 50 Ω Ref Offset 1.5	DC		SET	NSE:INT		ALIGN AUTO	12:53:17 PI	952 GHz 80 dBm	Frequency Auto Tune Center Free 20.75000000 GHz Start Free 15.00000000 GHz
10 dB/div ->9 10.0 .000	RF 50 Ω Ref Offset 1.5	DC		SEP	VSE:INT		ALIGN AUTO	12:53:17 PI	952 GHz 80 dBm	Frequency Auto Tune Center Free 20.75000000 GHz Start Free 15.00000000 GHz
10.0 B/div 10.0 10.0 10.0 	RF 50 Ω Ref Offset 1.5	DC		SET	NSE:INT		ALIGN AUTO	12:53:17 PI	952 GHz 80 dBm	Frequency Auto Tune Center Frec 20.750000000 GHz Start Frec 15.000000000 GHz Stop Frec 26.50000000 GHz
20 RL 0 dB/div 10.0 10.0 -10.0 -20.0 -30.0	RF 50 Ω Ref Offset 1.5	DC		SEF	NSE:INT		ALIGN AUTO	12:53:17 PI	952 GHz 80 dBm	Frequency Auto Tune Center Frec 20.750000000 GH2 Start Frec 15.000000000 GH2 Stop Frec 26.500000000 GH2
20 RL 0 dB/div 10.0 10.0 -10.0 -20.0 -30.0	RF 50 Ω Ref Offset 1.5						ALIGN AUTO MI	12:53:17 P (r1 26.C -50.	952 GHz 80 dBm	Frequency Auto Tune Center Freq 20.750000000 GHz Start Freq 15.00000000 GHz Stop Freq 26.50000000 GHz CF Step 1.150000000 GHz
X RL 10 dE/div 10.0 .0.000 .0.000 .0.0000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.000000 .0.00000000	RF 50 Ω Ref Offset 1.5 Ref 20.00 c						ALIGN AUTO MI	12:53:17 PI	952 GHz 80 dBm	Start Frequency Auto Tune Center Frequency 20.750000000 GH2 Start Frequency 15.00000000 GH2 Stop Frequency 26.50000000 GH2 CF Step 1.150000000 GH2 Auto Auto
X RL 10 dE/div 10.0 .0.000 .0.000 .0.0000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.000000 .0.00000000	RF 50 Ω Ref Offset 1.5		ary and from the second				ALIGN AUTO MI	12:53:17 P (r1 26.C -50.	952 GHz 80 dBm	Start Frequency Auto Tune Center Freq 20.750000000 GHz Start Freq 15.000000000 GHz 26.500000000 GHz CF Step 1.150000000 GHz Auto Auto Mar Freq Offset
X RL 10 dE/div 10.0 10.0 -10.0 -20.0 -20.0 -30.0 -50.0 -60.0	RF 50 Ω Ref Offset 1.5 Ref 20.00 c		aspati-liverold				ALIGN AUTO MI	12:53:17 P (r1 26.C -50.	952 GHz 80 dBm	Start Frequency Auto Tune Center Freq 20.750000000 GHz Start Freq 15.000000000 GHz 26.500000000 GHz CF Step 1.150000000 GHz Auto Auto Mar Freq Offset
X RL 10 dE/div 10.0 .0.000 .0.000 .0.0000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.00000 .0.000000 .0.00000000	RF 50 Ω Ref Offset 1.5 Ref 20.00 c		estrutu-Hritorolda				ALIGN AUTO MI	12:53:17 P (r1 26.C -50.	952 GHz 80 dBm	Start Frequency Auto Tune Center Freq 20.750000000 GHz Start Freq 15.000000000 GHz 26.500000000 GHz CF Step 1.150000000 GHz Auto Auto Mar Freq Offset
X RL 10 dE/div 10 0 10 0 -10 0 -20 0 -20 0 -30 0 -40 0 -60 0 -70 0 -70 0	RF 50 Ω Ref Offset 1.5 Ref 20.00 c		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				ALIGN AUTO MI	12:53:17 P kr1 26.C -50.	-2376 dbm	Start Frequency Auto Tune Center Freq 20.750000000 GHz Start Freq 15.000000000 GHz 26.500000000 GHz CF Step 1.150000000 GHz Auto Auto Mar Freq Offset
X RL 10 dB/div 10 dB	RF 50 Ω Ref Offset 1.5 Ref 20.00 c Ref 20.00 c Ref 20.00 c			Nipplianiland	af a strategy and		ALIGN AUTO	12:53:17 P kr1 26.C -50.	.500 GHz	Auto Tune Center Frec 20.75000000 GHz Start Frec 15.00000000 GHz 26.50000000 GHz CF Step 1.15000000 GHz
X RL 10 dB/div 10 dB	RF 50 Ω Ref Offset 1.5 Ref 20.00 c				af a strategy and		ALIGN AUTO	12:53:17 P (r1 26.C -50.	-2376 dbm	Frequency Auto Tune Center Frec 20.750000000 GHz Start Frec 15.000000000 GHz 26.500000000 GHz 1.150000000 GHz Auto Mar



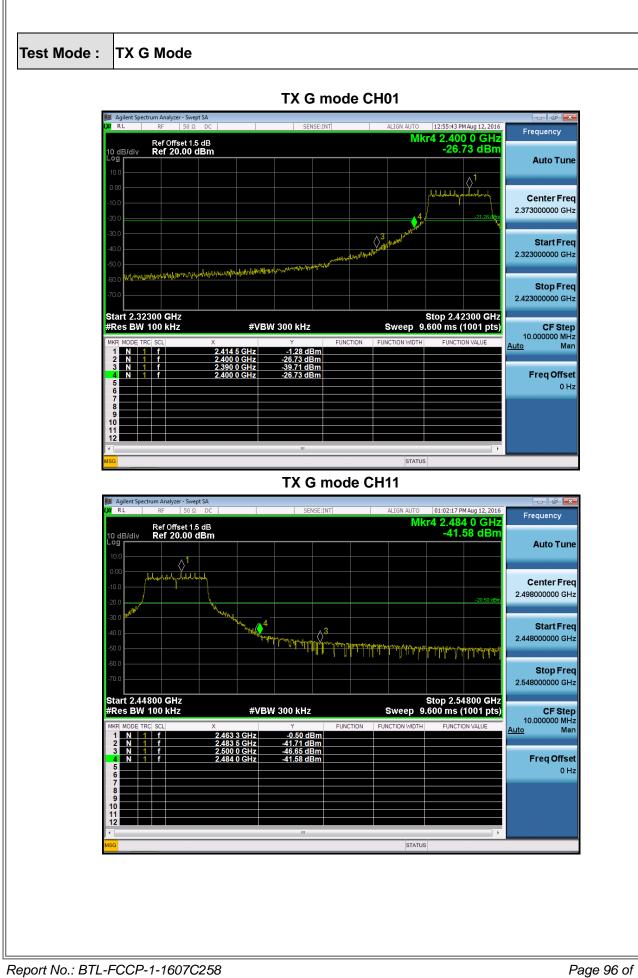
TX B mode CH11 (10 Harmonic of the frequency)



Agilent Spe	ctrum Analyzer - Sw RF 50			CEN	NSE:INT		ALIGN AUTO	10-54-15.0	M Aug 12, 2016	
	Ref Offset 1 Ref 20.00	.5 dB		SE	NSE:INT			kr1 25.6	03 GHz 23 dBm	Frequency
o dB/div	Rel 20.00									Auto Tu
10.0										Center Fr 20.750000000 G
D.0									-22.10 dBm	Start Fr 15.000000000 G
0.0										Stop Fr 26.50000000 G
).0								a ka sa kuluki	1	CF St 1.150000000 G <u>Auto</u> M
	li, hoyayaya ka	lapapellaphicathoge	n yayan yang kan dalayan yang kan yang Kan yang kan y	kelteroppyllisere	unpphenfordiereit	untrum antaly	and the second	nlang yang kanang ka	doda, Lanita, Lanita,	Freq Off 0
	000 GHz								.500 GHz	
kes BW	100 kHz		#VBW	300 kHz			Sweep	1.099 s (1001 pts)	









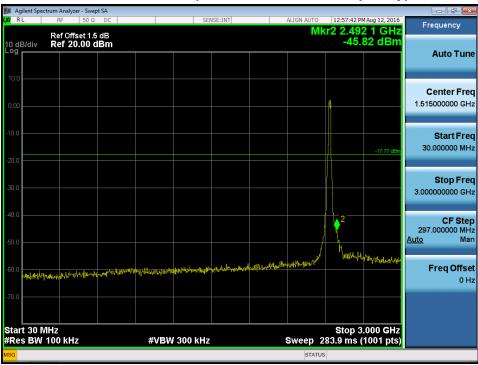
TX G mode CH01 (10 Harmonic of the frequency)





🎉 Agilent Spec											- F ×
LXI RL	RF	50 Ω			SEI	NSE:INT		ALIGN AUTO		MAug 12, 2016	Frequency
10 dB/div Log	Ref (Ref	Offset 1.5 20.00 c	dB IBm						-51.	13 dBm	Auto Tune
10.0 0.00											Center Free 20.750000000 GHz
-10.0											Start Fred 15.000000000 GHz
-30.0										-22.06 dBm	Stop Fred 26.500000000 GH
-40.0										1	CF Step 1.150000000 GHz <u>Auto</u> Mar
-60.0 <mark>4741/144</mark>	neril Herry	ulm/here/here	Udhupilitaan	pape to definite the second	Amphontanana	non franklind	yhonddanaadara	hldrod ale	phillippine	blerdet en de la serie de l La serie de la s	Freq Offset 0 Ha
-70.0		1-							04		
Start 15.0 #Res BW				#VBW	/ 300 kHz			Sweep	Stop 26 1.099 s	i.500 GHz (1001 pts)	
MSG								STATUS			

TX G mode CH06 (10 Harmonic of the frequency)





	ectrum Analyzer - Swe		т							
X/RL	RF 50 Ω			SE	NSE:INT		ALIGN AUTO		MAug 12, 2016	Frequency
10 dB/div Log	Ref Offset 1.5 Ref 20.00 (5 dB dBm							08 dBm	
										Auto Tune
10.0										
0.00										Center Free 9.000000000 GH:
-10.0										Start Fred
-20.0									-17.77 dBm	3.000000000 GH;
										Stop Free
-30.0										15.00000000 GH
-40.0	1 -									CF Step
-50.0										1.20000000 GH Auto Mar
-30.0	ann a sha	and the second							o metala di sa sala a	
-60.0 444, 14 4	armyllynenetteren laren y	United and a state of the state	youry/Uprill Yoully's	an a	the state of the second se	NUTWINH	Mulyebookhing	withing	W.W.KUMI, ANA INA	Freq Offse
-70.0										0 H:
-70.0										
Start 3.0								Stop 15	.000 GHz	
#Res BW	/ 100 kHz		#VBW	/ 300 kHz					1001 pts)	
							STATUS			
N										
	ectrum Analyzer - Swej			SE	NSE:INT		ALIGN AUTO	12:57:52 P	M Aug 12, 2016	
R L	RF 50 Ω	DC DC		SE	NSE:INT		ALIGN AUTO	kr1 26.2	13 GHz	Frequency
X/ RL		DC 5 dB		SE	NSE:INT			kr1 26.2		Frequency
X/RL	RF 50Ω Ref Offset 1.5	DC 5 dB		SE	NSE:INT			kr1 26.2	13 GHz	Frequency
X/RL	RF 50Ω Ref Offset 1.5	DC 5 dB		SE	NSE:INT			kr1 26.2	13 GHz	Frequency Auto Tune
KU RL	RF 50Ω Ref Offset 1.5	DC 5 dB		SE	NSE:INT			kr1 26.2	13 GHz	Frequency Auto Tune Center Free
XI RL 10 dB/div 10.0 0.00	RF 50Ω Ref Offset 1.5	DC 5 dB		SE	NSE:INT			kr1 26.2	13 GHz	Frequency Auto Tune Center Free
X/ RL 10 dB/div -99 10.0	RF 50Ω Ref Offset 1.5	DC 5 dB		SE	NSE:INT			kr1 26.2	213 GHz 44 dBm	Frequency Auto Tune Center Freq 20.750000000 GH: Start Freq
20 dB/div Log 10.0 0.00	RF 50Ω Ref Offset 1.5	DC 5 dB		SE	NSE:INT			kr1 26.2	13 GHz	Frequency Auto Tune Center Freq 20.750000000 GH: Start Freq
10.0	RF 50Ω Ref Offset 1.5	DC 5 dB		SE	NSE:INT			kr1 26.2	213 GHz 44 dBm	Frequency Auto Tune Center Free 20.750000000 GH: Start Free 15.000000000 GH:
10 dB/div 10.0 0.00 -10.0	RF 50Ω Ref Offset 1.5	DC 5 dB		SE	NSE:INT			kr1 26.2	213 GHz 44 dBm	Frequency Auto Tune Center Free 20.750000000 GH: Start Free 15.000000000 GH:
10.0	RF 50Ω Ref Offset 1.5	DC 5 dB		SE				kr1 26.2	213 GHz 44 dBm	Frequency Auto Tune Center Frec 20.750000000 GH2 Start Frec 15.000000000 GH2 Stop Frec 26.500000000 GH2
10 dB/div 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RF 50Ω Ref Offset 1.5	DC 5 dB		SE	NSE:INT			<pre>kr1 26.2 -50.</pre>	13 GHz 44 dBm 	Frequency Auto Tune Center Freq 20.750000000 GH: Start Freq 15.00000000 GH: 26.50000000 GH: CF Step 1.150000000 GH:
XXI RL 10.g Horizontal 10.0 Horizontal 10.0 Horizontal -10.0 Horizontal -20.0 Horizontal -30.0 Horizontal -40.0 Horizontal	RE 50 Ω Ref Offset 1.8 Ref 20.00 0	2 DC 5 dB dB m						<pre>kr1 26.2 -50.</pre>	213 GHz 44 dBm	Frequency Auto Tune Center Freq 20.750000000 GHz Start Freq 15.00000000 GHz Stop Freq 26.50000000 GHz CF Step 1.150000000 GHz
XXI RL 10.g Horizontal 10.0 Horizontal 10.0 Horizontal -10.0 Horizontal -20.0 Horizontal -30.0 Horizontal -40.0 Horizontal	RF 50Ω Ref Offset 1.5	2 DC 5 dB dB m	aldradio rela	SE		لمار الم		<pre>kr1 26.2 -50.</pre>	13 GHz 44 dBm 	Start Frequency Auto Tune Center Freq 20.750000000 GHz Start Freq 15.000000000 GHz 26.500000000 GHz CF Step 1.150000000 GHz Auto Auto Mar Freq Offset
XY RL 10 dB/div	RE 50 Ω Ref Offset 1.8 Ref 20.00 0	2 DC 5 dB dB m	all-onlored					<pre>kr1 26.2 -50.</pre>	13 GHz 44 dBm 	Start Frequency Auto Tune Center Freq 20.750000000 GHz Start Freq 15.000000000 GHz 26.500000000 GHz CF Step 1.150000000 GHz Auto Auto Mar Freq Offset
XY RL 10.0	RE 50 Ω Ref Offset 1.8 Ref 20.00 0	2 DC 5 dB dB m	allowed look of the					<pre>kr1 26.2 -50.</pre>	13 GHz 44 dBm 	Auto Tune Center Frec 20.75000000 GHz Start Frec 15.00000000 GHz 26.50000000 GHz CF Step 1.15000000 GHz
XI RL 10 dB/div	Ref 50 Q Ref Offset 1.8 Ref 20.00 d Avgente 1.0 Ref 20.00 d Ref 20.00 d Ref 20.00 d	2 DC 5 dB dB m			and the second sec		MI	ארד 26.2 -50. אליקאניילא Stop 26	13 GHz 44 dBm 	Frequency Auto Tune Center Frec 20.750000000 GHz Start Frec 15.000000000 GHz 26.500000000 GHz 1.150000000 GHz Auto Mar
XI RL 10 dB/div	Ref 50 Ω Ref Offset 1.8 Ref 1.0 1.0	2 DC 5 dB dB m			and the second sec		MI	(պետերան) (պետերան)) (պետերան) (պետերան) (պետերան)) (պետերան) (պետերան))	213 GHz 44 dBm 	Frequency Auto Tune Center Frec 20.750000000 GHz Start Frec 15.000000000 GHz 26.500000000 GHz 1.150000000 GHz Auto Mar



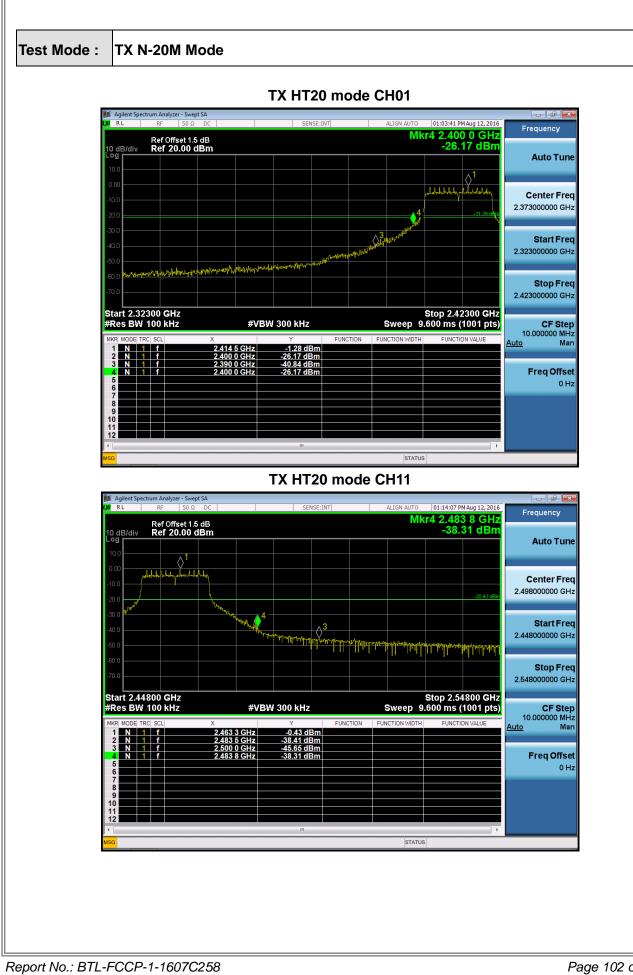
TX G mode CH11 (10 Harmonic of the frequency)



Agilent Spe	ctrum Analyzer - Swep RF 50 Ω			SEA	SE:INT		ALIGN AUTO	01:02:02.0	M Aug 12, 2016	
0 dB/div	Ref Offset 1.5 Ref 20.00 c	dB		SEI	N3E.1111			kr1 26.1	60 dBm	Frequency
og	Kei 20.00 C									Auto Tun
0.00										Center Fre 20.750000000 GH
									-20.78 dBits	Start Fre 15.00000000 GH
10.0										Stop Fr 26.500000000 G
i0.0							, ta bla		1 	CF Ste 1.150000000 GI <u>Auto</u> M
	howman have been a sub-	htshihanhar	erethilthethet	, fylyddy fallogyfya	hulululu	hlipping and an	A AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	Lochelosserapise	Mood as Man a start	Freq Offs
	000 GHz 100 kHz			300 kHz			0	Stop 26	.500 GHz	
	100 KH2		#VDV	300 KHZ			sweep		(1001 pts)	







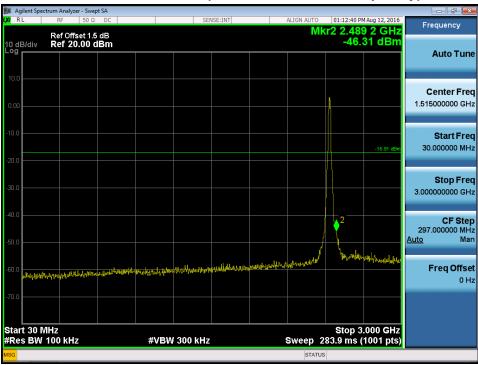


TX HT20 mode CH01 (10 Harmonic of the frequency)



	trum Analyzer - Swe									
RL	RF 50 Ω	DC		SEN	ISE:INT		ALIGN AUTO		4 Aug 12, 2016	Frequency
0 dB/div	Ref Offset 1.5 Ref 20.00 c	dB IBm					M	kr1 26.0 -50.	75 GHz 28 dBm	
										Auto Tu
0.0										Center Fr 20.750000000 G
D.O									-21.96 dBm	Start Fr 15.00000000 G
0.0										Stop Fi 26.500000000 0
0.0									1	CF Si 1.150000000 (<u>Auto</u>
0.0 1110-144 4	nalhanananananananananananananananananan	daminalinal/filoar	no maka iko fa	rdprathel.ondpatch	konner von Marine	willian open of	kla, Provalj v Harl a Myr	hderryshyddield	yatur analar a an	Freq Off
D.0										
tart 15.0 Res BW	00 GHz 100 kHz		#VBW	300 kHz			Sweep	Stop 26	.500 GHz 1001 pts)	
G							STATUS			

TX HT20 mode CH06 (10 Harmonic of the frequency)





SENSE:INT	ALIGN AUTO 01:12:45 PM AU Mkr1 4.884	
	-44.35	i dBm
		Auto Tun
		Center Fre
		9.000000000 GH
		Start Fre
		-16.91 dBm 3.000000000 GH
		Oton Ero
		Stop Fre 15.000000000 GH
		CF Ste
		1.200000000 GH Auto Ma
way and phone was a strain the stand and the	mental work and a second and a second second	Freq Offse
		0 Н
	Stop 15.00	
#VBW 300 KHZ		ut pts)
SENSE:INT	ALIGN AUTO 01:12:50 PM Au	g 12, 2016 Erequency
SENSE:INT	Mkr1 26.17	g 12, 2016 Frequency
SENSE:INT		g 12, 2016 B GHz dBm
SENSE:INT	Mkr1 26.17	g 12, 2016 B GHz dBm
SENSE:INT	Mkr1 26.17	1212,2016 Frequency GBM Auto Tun
SENSE:INT	Mkr1 26.17	1912,2016 Frequency GBM Auto Tun Center Fre
SENSE:INT	Mkr1 26.17	1912,2016 Frequency GBM Auto Tun Center Fre
SENSE:INT	Mkr1 26.17	1912,2016 B GH2 GH2 Auto Tun Center Fre 20.750000000 GH
SENSE:INT	Mkr1 26.17	1912,2016 Frequency Auto Tun Center Fre 20.750000000 GH Start Fre
SENSE:INT	Mkr1 26.17	1912,2016 Frequency Auto Tun Center Fre 20.750000000 GH Start Fre
SENSE:INT	Mkr1 26.17	12,2016 Frequency Auto Tun Auto Tun Center Fre 20.750000000 GH Start Fre 15.00000000 GH
SENSE:INT	Mkr1 26.17	g 12,2016 B GHZ I dBm Auto Tun Center Fre 20.75000000 GH Start Fre 15.00000000 GH Stop Fre
SENSE:INT	Mkr1 26.17	9 12,2016 B GHZ J dBm Auto Tun Auto Tun Center Fre 20.750000000 GH Start Fre 15.000000000 GH Stop Fre 26.500000000 GH
SENSE:INT	Mkr1 26.17	g 12,2016 Frequency B GHZ Frequency Auto Tun Auto Tun Center Fre 20.75000000 GH Start Fre 15.00000000 GH Stop Fre 26.50000000 GH CF Ste CF Ste
	Mkr1 26.17 -50.34	12,2016 Frequency B GH2 Frequency dBm Auto Tun Center Fre 20.75000000 GH 15.00000000 GH Start Fre 15.00000000 GH Stop Fre 26.50000000 GH 1.150000000 GH
	Mkr1 26.17 -50.34	10:21,2016 Frequency Frequency Auto Tun Center Fre 20.750000000 GH 15:51 dem Start Fre 15:51 dem Stop Fre 26.500000000 GH CF Step 1.150000000 GH Lito Ma
	Mkr1 26.17	16:51 d0m Center Frequency 16:51 d0m Start Frequency 16:51 d0m Frequency 16:51 d0m Frequency 16:51 d0m Frequency
	Mkr1 26.17 -50.34	16:51 d0m Center Frequency 16:51 d0m Start Frequency 16:51 d0m Frequency 16:51 d0m Frequency 16:51 d0m Frequency
	Mkr1 26.17 -50.34	10:31:40m Frequency 10:31:40m Frequency 10:31:40m Center Frequency 10:31:40m Center Frequency 10:31:40m Start Frequency 10:31:40m Start Frequency 11:500000000 GH Stop Frequency 11:1500000000 GH Stop Frequency 11:150000000 GH Freq Offset 11:150000000 GH Freq Offset
	Mkr1 26.17 -50.34	9 12,2016 Frequency B GHZ Frequency Auto Tun Auto Tun Center Frequency Start Frequency 20.750000000 GH Start Frequency 15.91 dBm Start Frequency 15.00000000 GH Start Frequency 15.000000000 GH Stop Frequency 15.000000000 GH Stop Frequency 15.000000000 GH Stop Frequency 11.150000000 GH Stop Frequency 11.150000000 GH Freq Offseq 0 H Freq Offseq 0 H Stop Frequency
	Mkr1 26.17 -50.34	3 GHz Frequency 4 dBm Auto Tune 4 dBm Auto Tune 20.750000000 GHz Start Freq 10.91 dm Start Freq 15.91 dm Stop Freq 26.50000000 GHz CF Step 1.15000000 GHz CF Step 1.15000000 GHz Freq Offse 0 GHz D0 GHz
	SENSE:INT	Mkr1 4.88 -44.35



TX HT20 mode CH11 (10 Harmonic of the frequency)



Ref Offset 1.5 dB Mkr1 26.144 GHz Frequency 0 dB/div Ref 20.00 dBm -50.09 dBm Auto Ti 0 d -50.09 dBm -50.09 dBm Auto Ti 0 d -50.09 dBm -50.09 dBm -50.09 dBm 0 dB/div -50.09 dBm -50.09 dBm -50.09 dBm	Agilent Spe	ectrum Analyzer - Swe RF 50 Ω			SEA	SE:INT		ALIGN AUTO	01:12:52.0	MAug 12, 2016	
og Auto Tu 00 Center F 000 Center F 115.0000000 Center F 20.50000000 Cente		Ref Offset 1.	5 dB		SEI	N3E.1111			kr1 26.1	44 GHz	Frequency
Center F 000 Center F <tr< th=""><th></th><th>Rel 20.00</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Auto Tur</th></tr<>		Rel 20.00									Auto Tur
0.0 3.111 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 0.0 3.120 1.0 3.120 1.000000000 3.120 1.000000000 3.120 1.000000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.1500000000 3.120 1.15000000000 3.120											Center Fre 20.750000000 GH
26.50000000 26.50000000 26.50000000 26.50000000 26.50000000 26.50000000 26.50000000 26.50000000 26.50000000 1.15000000 1.15000000 1.15000000 1.15000000 1.15000000 1.1500000000 1.150000000 1.150000000 1.150000000 1.150000000 1.15000000 1.15000000 1.15000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.150000000 1.150000000 1.15000000 1.15000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.150000000 1.150000000 1.15000000 1.150000000 1.15000000 1.15000000 1.15000000 1.150000000 1.15000000 1.150000000 1.15000000 1.150000000 1.150000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.15000000 1.15000000 1.15000000 1.150000000 1.15000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.15000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.15000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.15000000 1.150000000 1.15000000 1.150000000 1.15000000 1.15000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.15000000 1.15000000 1.15000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.15000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.150000000 1.15000000 1.150000000 1.150000000 1.150000000 1.15000000000000000000 1.1500000000000000000000000000000000000											Start Fre 15.000000000 GI
0.0 1.50000000 1// 1// 1// 1// 1// 1// 1// 1// 1// 1//	0.0										Stop Fr 26.50000000 G
Image: Stop 26.500 GHz Stop 26.500 GHz										↓ ¹	CF St 1.150000000 G <u>Auto</u> M
tart 15.000 GHz Stop 26.500 GHz	0.0 <mark>1/1^{1/1}1144</mark>	hayoneedlaterateritationerati	http://www.lookaped	Manufacture	wiftstyldraf4pafys	where	henahurtu-sinyahut	ndiellen offenten fille	hlunnumin	itintladda ^{an} irth	Freq Offs 0
		000 GHz							Stop <u>26</u>	.500 GHz	
				#VBW	300 kHz			Sweep			

Page 107 of 114



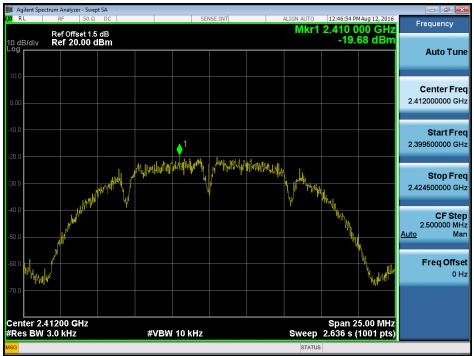
ATTACHMENT H - POWER SPECTRAL DENSITY





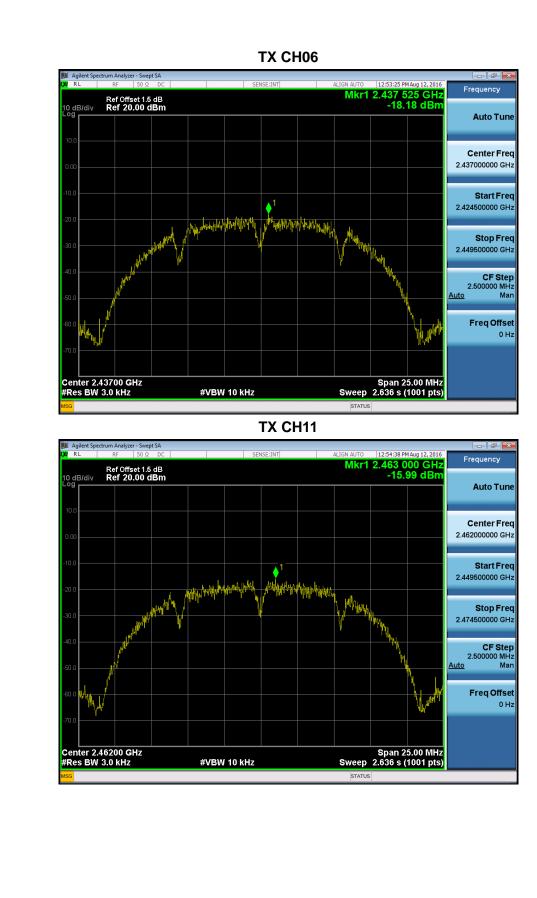
	Test Mode :TX B Mode_CH01/06/11										
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result							
2412	-19.68	0.0108	8.00	Complies							
2437	-18.18	0.0152	8.00	Complies							
2462	-15.99	0.0252	8.00	Complies							

TX CH01









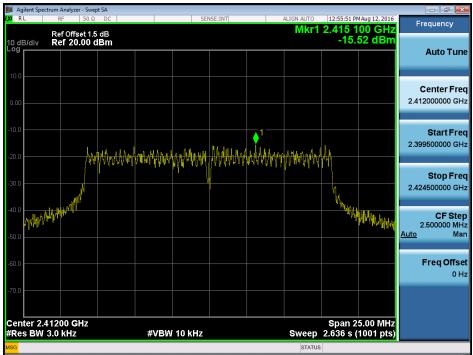




Test Mode :TX G Mode_CH01/06/11

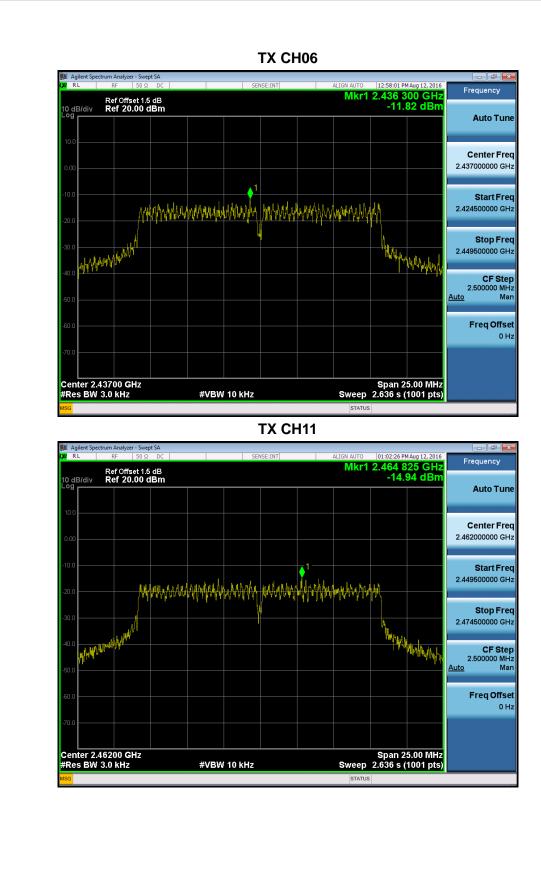
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.52	0.0281	8.00	Complies
2437	-11.82	0.0658	8.00	Complies
2462	-14.94	0.0321	8.00	Complies

TX CH01













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	-15.40	0.0288	8.00	Complies						
2437	-11.27	0.0746	8.00	Complies						
2462	-14.66	0.0342	8.00	Complies						



