FCC ID: 2AGUS-PW-2-12001
This report concerns (check one): ⊠Original Grant ⊡Class II Change
Project No.: 1512C072Equipment: Prowise ProWrite PenModel Name: PW.2.12001.0001,PW.2.12001.****(*=0-9)Applicant: Prowise BVAddress: Luchthavenweg 1b, 6021 PX Budel, The Netherlands
Date of Receipt : Dec. 09, 2015   Date of Test : Dec. 09, 2015 ~ Jan. 18, 2016   Issued Date : Jan. 19, 2016   Tested by : BTL Inc.
Testing Engineer : <u>Shawn Xion</u> (Shawn Xiao)
Technical Manager :
Authorized Signatory :
<b>BTL INC.</b> No.3,Jinshagang 1st Road, Shixia,Dalang Town, Dongguan, Guangdong, China. TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

FCC Radio Test Report

#### Declaration

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

**BTL**'s report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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**BTL**'s laboratory quality assurance procedures are in compliance with the **ISO Guide17025** 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.

# **3**TL

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# **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-1-1512C072	Original Issue.	Jan. 19, 2016

# **1. CERTIFICATION**

|--|

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-1-1512C072) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart C (15.249)				
Standard Section	Test Item	Judgment	Remark	
FCC		ouuginont	Remark	
15.207(a)	Conducted Emission	N/A	NOTE (1)	
15.205	Restricted Band of Operation	PASS		
15.209 15.249(a)	Radiated Emissions	PASS		
15.215(c)	20dB Bandwidth Test	PASS		

NOTE:

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

#### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is 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 astandard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
		9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	Н	3.57
DG-CB03		30MHz ~ 200MHz	V	3.82
(3m)	CISPR	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)	CISER	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	Prowise ProWrite Pen			
Brand Name	Prowise			
Model Name	PW.2.12001.0001,PW.2.1200	1.****(*=0-9)		
Model Difference	The market distribution is diffe	The market distribution is different.		
	Operation Frequency	2402 ~ 2480 MHz		
	Modulation Technology	GFSK		
Product Description	Data rate	2Mbps		
	Field Strength	94.65dBuV/m(Peak Max) 73.67dBuV/m(AVG Max)		
Power Source	Supplied from battery			
Power Rating	DC 3.7V 1.11Wh			

Note:

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

2. Channel List:

Channel	Frequency (MHz)
01	2402
02	2441
03	2480

#### 3 Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	0.72

#### 3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based 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 Mode

For Conducted Test				
Final Test Mode Description				
Mode 1	TX Mode			

For Radiated Test				
Final Test Mode Description				
Mode 1	TX Mode			

Note:

(1) The measurements are performed at the high, middle, low available channels.

# 3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



#### 3.4 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
-	-	-	-	-

# 4. EMC EMISSION TEST

# 4.1 CONDUCTED EMISSION MEASUREMENT

# 4.1.1 POWER LINE CONDUCTED EMISSION (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

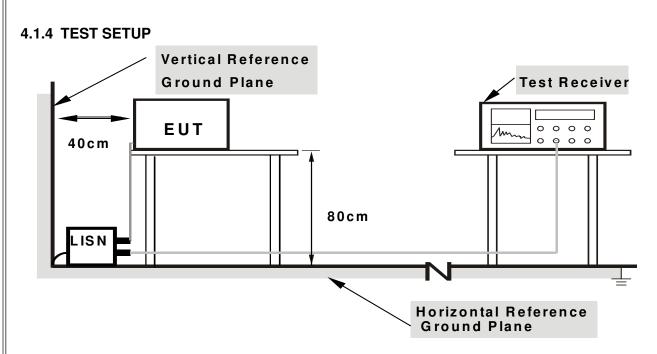
#### 4.1.2 TEST PROCEDURE

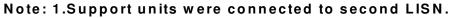
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipmentspowered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the groundplane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation







2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

## 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it).

## 4.1.6 EUT TEST CONDITIONS

Temperature: N/A Relative Humidity: N/A Test Voltage: N/A

## 4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

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

## 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 RADIATED EMISSION LIMITS (FCC 15.209)

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section15.209(a) limit in the table below has to be followed.

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

FREQUENCY (MHz)	(dBuV/m) (at 3m)		
FREQUENCT (MILZ)	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).

#### LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

FCC Part15 (15.249) , Subpart C				
Limit Frequency Range(MHz)				
Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m	2400-2483.5			
Field strength of harmonics 500 $\mu$ V/m (54 dB $\mu$ V/m) @ 3 m	Above 2483.5			

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	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 TESTPROCEDURE

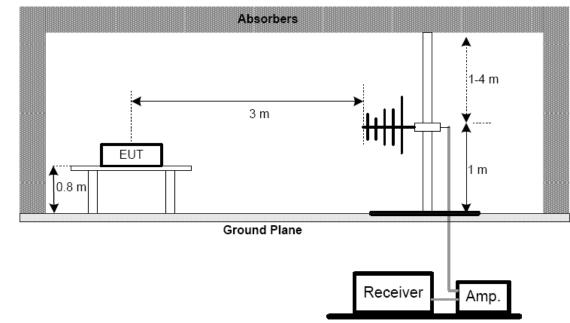
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

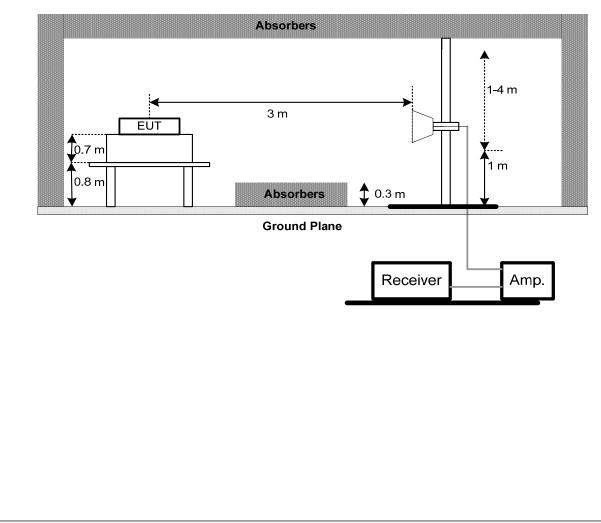
No deviation

# 4.2.4 TESTSETUP

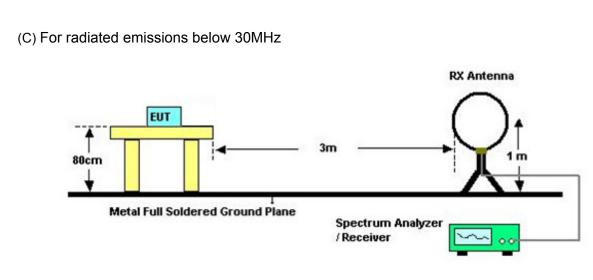
#### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



# **J**TL



# 4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 4.2.6 EUT TEST CONDITIONS

Temperature: 26°C Relative Humidity: 58% Test Voltage: DC 3.7V

#### 4.2.7 TEST RESULTS (9KHZ 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

Remark:

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .

#### 4.2.9 TEST RESULTS (ABOVE1000 MHZ)

Please refer to the Attachment D

Remark:

- (1) 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.
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (3) Data of measurement within this frequency range shown " \* " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (5) EUT Orthogonal Axis:
  - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (6) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (7) 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 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=100KHz, Sweep time = Auto.

#### 5.2 DEVIATION FROM STANDARD

No deviation.

#### 5.3 TEST SETUP



#### 5.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

#### 5.5 EUT TEST CONDITIONS

Temperature: 26°C Relative Humidity: 58% Test Voltage: DC 3.7V

#### 5.6 TEST RESULTS

Please refer to the Attachment E

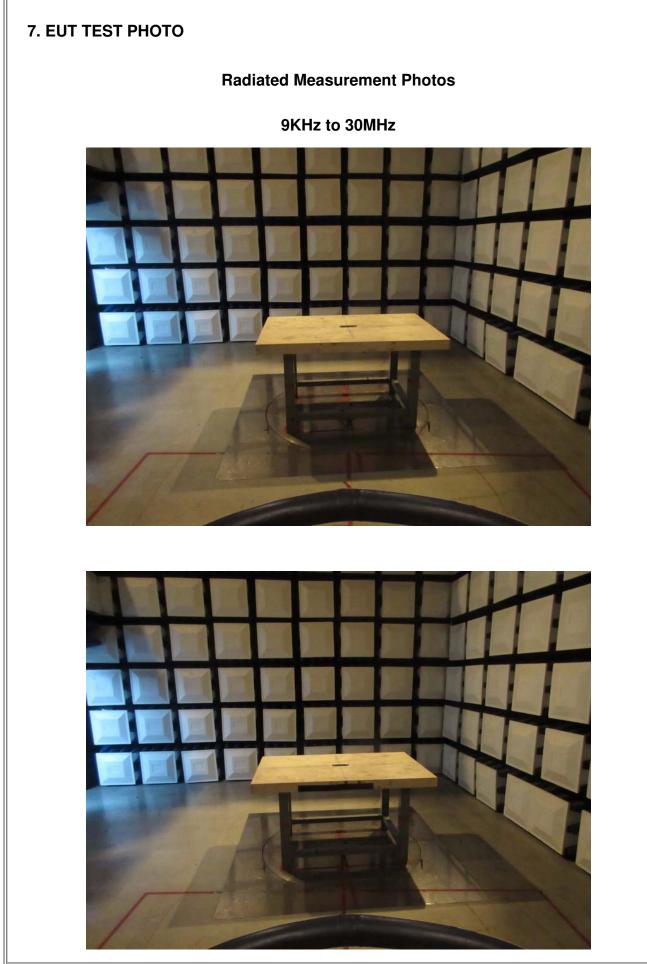
# 6. MEASUREMENT INSTRUMENTS LIST AND SETTING

	Radiated Emission Measurement							
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. 16, 2016			
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016			
4	Test Cable	emci	LMR-400(30MHz- 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	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016			
10	Test Cable	emci	EMC104-SM-SM- 10000(1GHz-26.5 GHz)	C-68	Jun. 28, 2016			
11	Controller	СТ	SC100	N/A	N/A			
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016			
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016			

#### Bandwidth

Item	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.



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# **Radiated Measurement Photos**

30MHz to 1000MHz





# **Radiated Measurement Photos**

Above 1000MHz





Report No.: BTL-FCCP-1-1512C072

# **ATTACHMENT A - CONDUCTED EMISSION**

Test Mode: N/A

Note: "N/A" denotes test is not applicable to this device.

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

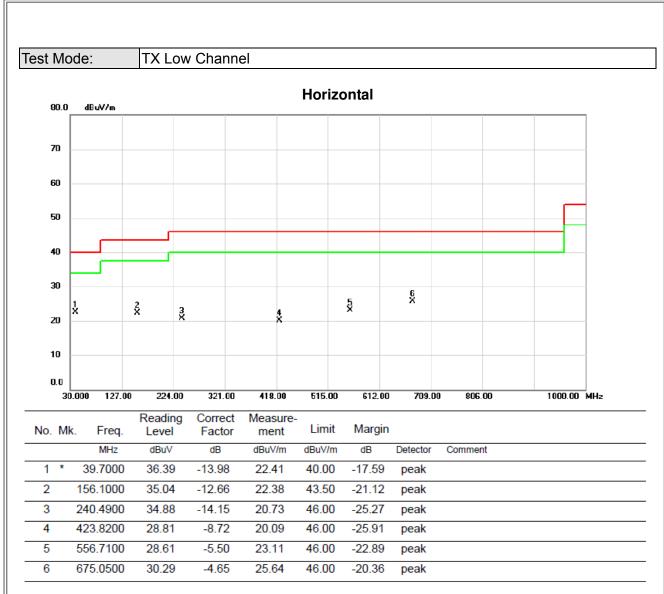
est Mode:	TX N	Node					
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0112	0°	12.12	24.86	36.98	126.62	-89.64	AVG
0.0112 0° 14.55 24.80		24.86	39.41	146.62	-107.21	PEAK	
0.0247 0° 6.03 24.		24.00	30.03	119.75	-89.72	AVG	
0.0247 0° 8.17		24.00	32.17	139.75	-107.58	PEAK	
0.0350 0°		3.11	23.35	26.46	116.72	-90.26	AVG
0.0350 0°		5.38 23.35		28.73	136.72	-107.99	PEAK
0.0527 0°		1.64 22.35		23.99	113.17	-89.18	AVG
0.0527 0°		2.78	22.35	25.13	133.17	-108.04	PEAK
0.5063 0°		18.16	19.82	37.98	73.52	-35.54	QP
1.9579	0°	22.47	19.50	41.97	69.54	-27.57	QP
Frequency (MHz)	Ant 0°/90°			Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0126	0126 90° 13.32 24.30		37.62	125.60	-87.98	AVG	
0.0126	90°	14.74	24.30 39.04		145.60	-106.56	PEA
0.0251	0.0251 90° 7.18 23.98		31.16	119.61	-88.45	AVG	
0.0251	0.0251 90° 8.66 2		23.98	32.64	139.61	-106.97	PEA
0.0437	0.0437 90° 5.33		22.80	28.13	114.79	-86.67	AVG
0.0437	0.0437 90° 6.39 2		22.80	29.19	134.79	-105.61	PEA
0.0521	0.0521 90° 1.59 22.36		22.36	23.95	113.27	-89.32	AVG
0.0521	0521 90° 2.37 22.36		22.36	24.73	133.27	-108.54	PEA
0.6265	0.6265 90° 22.24 20		20.20	42.44	71.67	-29.22	QP
2.0552	90°	24.83	19.47	44.30	69.54	-25.24	QP

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

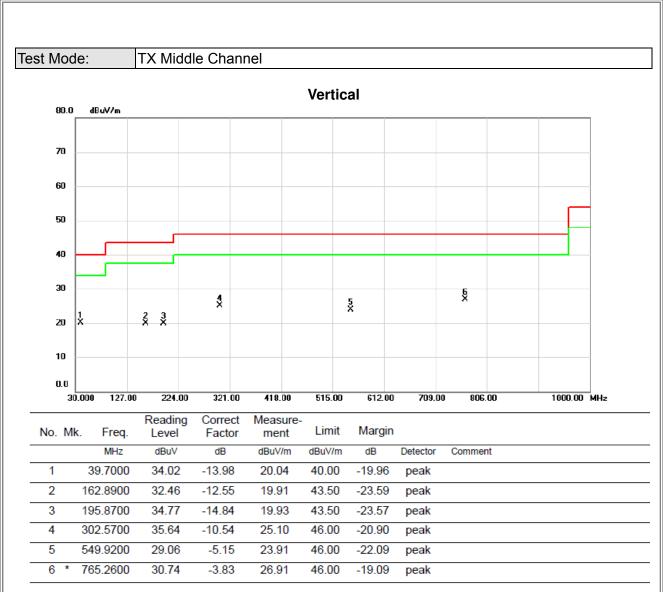


st Mo	ode:	TX Low	Channe	el					
					Vei	rtical			
80.0	dBuV/m								
70									
60									
50									
40									
30							6		
20	×	2 X		3 X	*	5 X	6 X		
10									
0.0	000 127 00	224.00	321.00	418.00	515.0	00 010 0	700.0	000 00	1000.00 MIL
31	0.000 127.00	Reading	Correct	Measur		00 612.00	0 709.0	0 806.00	1000.00 MHz
No. M	k. Freq.	Level	Factor	ment	Limi	it Margir	ı		
	MHz	dBuV	dB	dBuV/m	dBuV/		Detector	Comment	
1 *	39.7000	36.95	-13.98	22.97	40.0		peak		
2	170.6500	35.03	-12.89	22.14	43.5		peak		
3	386.9600	30.67	-9.85	20.82	46.0		peak		
4	480.0800	30.68	-9.21	21.47	46.0		peak		
5	548.9500	29.15	-5.24	23.91	46.0	0 -22.09	peak		

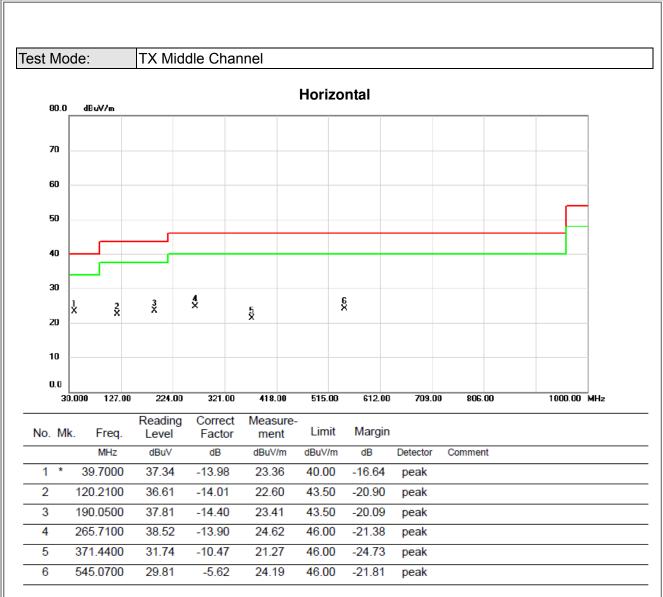




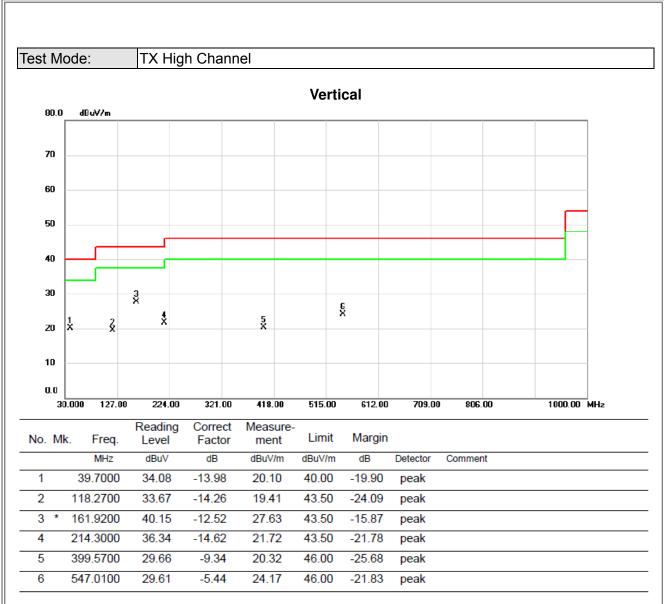




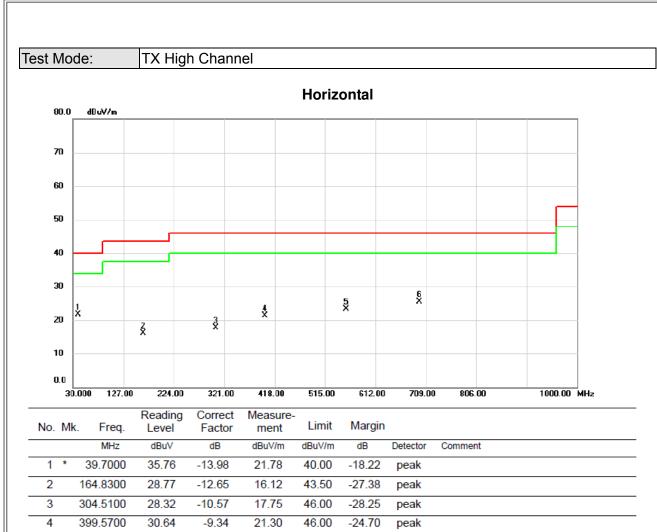












5

6

555.7400

696.3900

28.75

29.75

-5.46

-4.26

23.29

25.49

46.00

46.00

-22.71

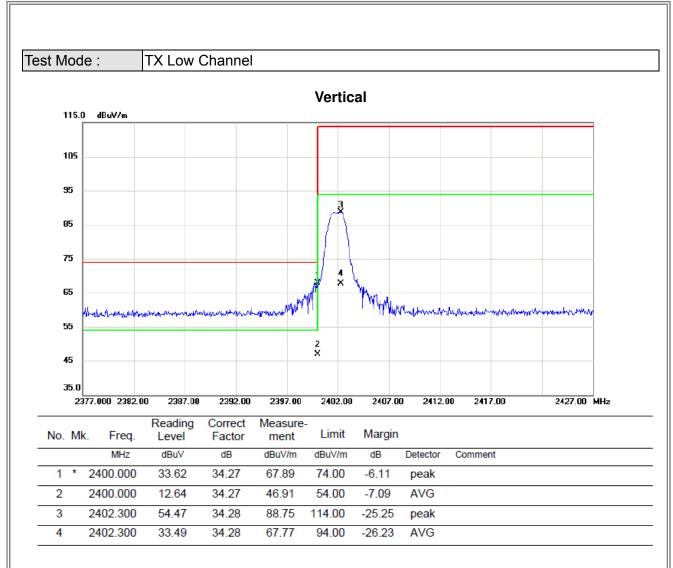
-20.51

peak

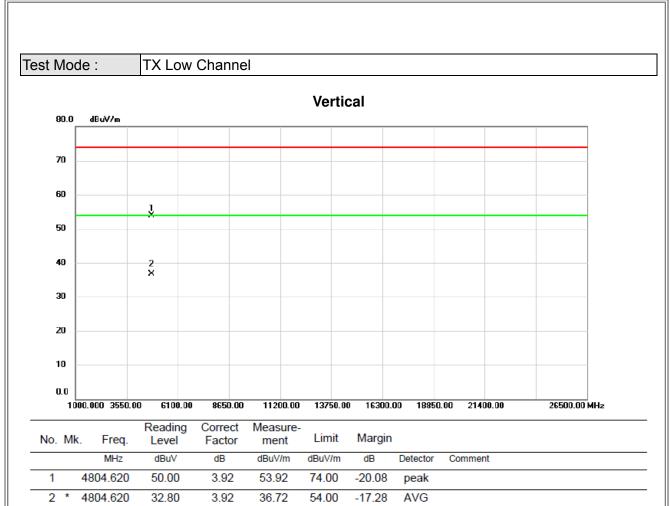
peak

# ATTACHMENT D -RADIATED EMISSION (ABOVE 1000MHZ)

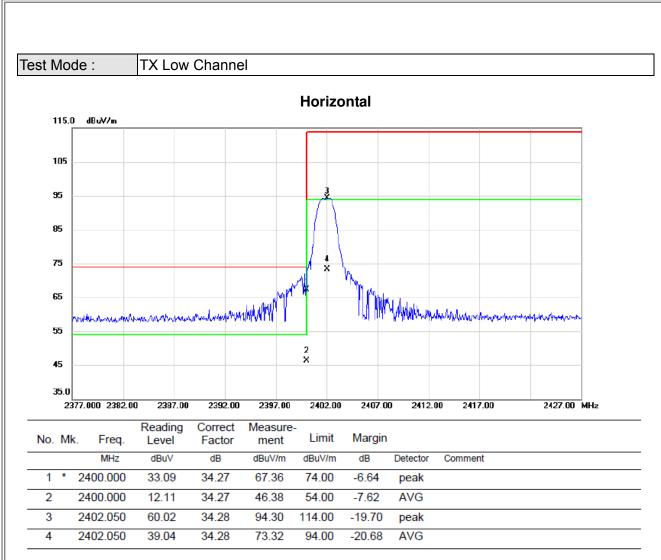
# **B**TL



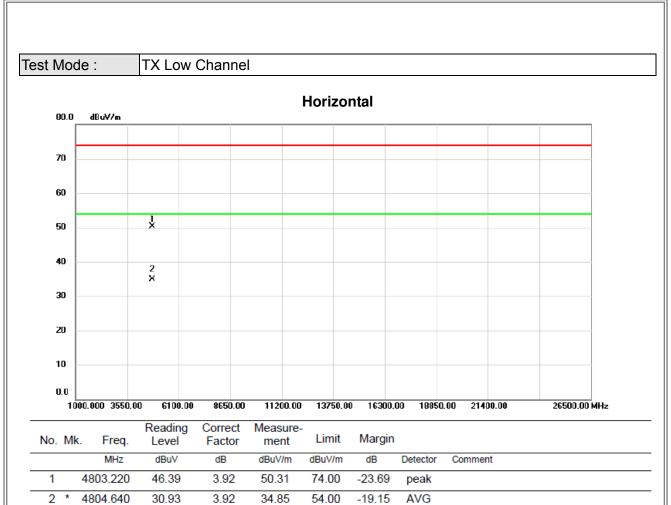




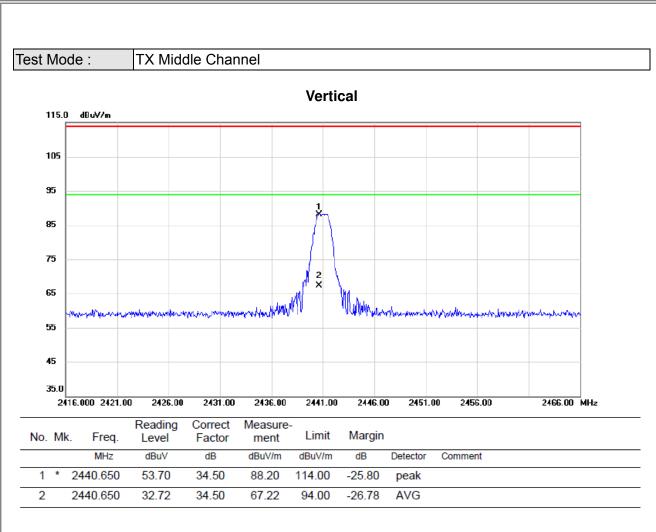




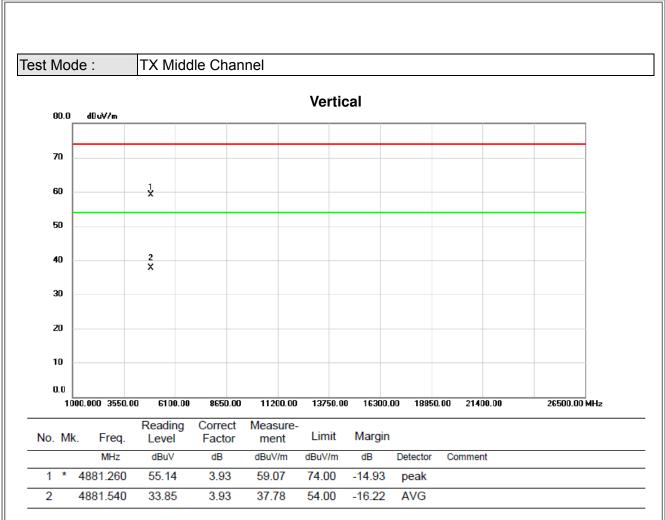




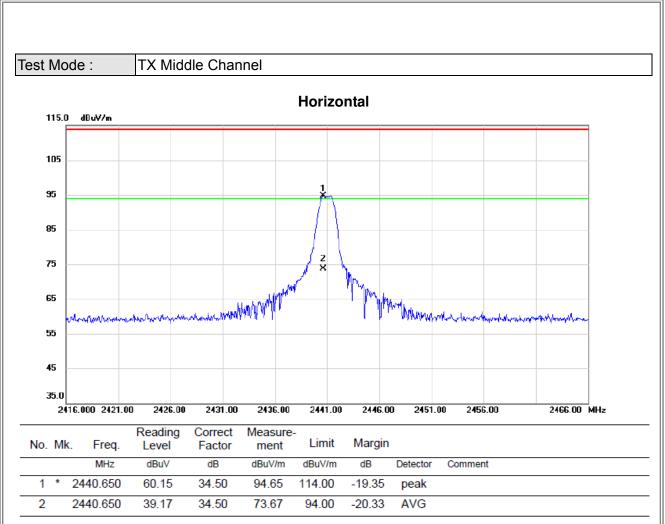




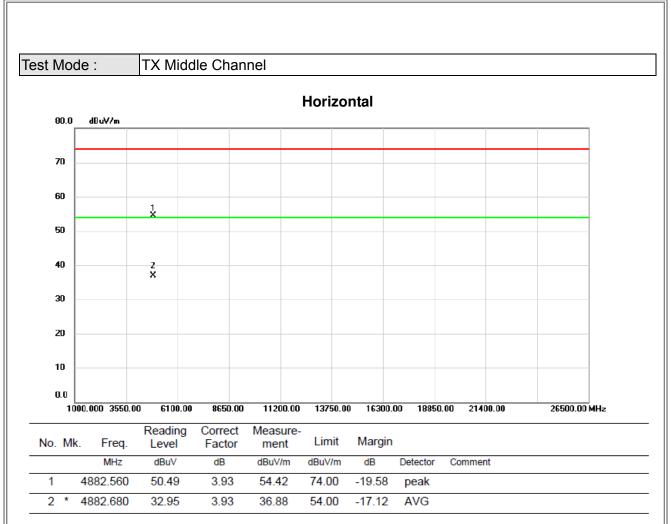




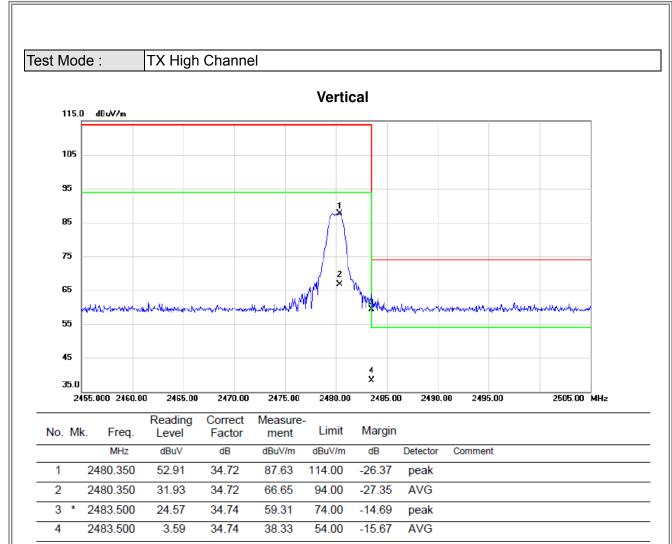




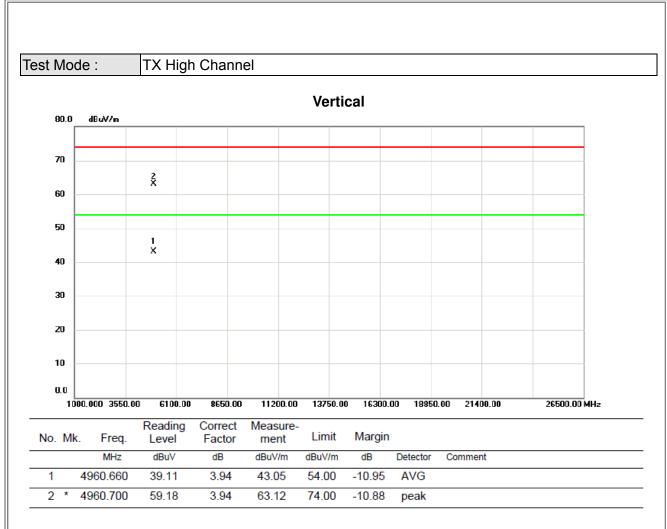




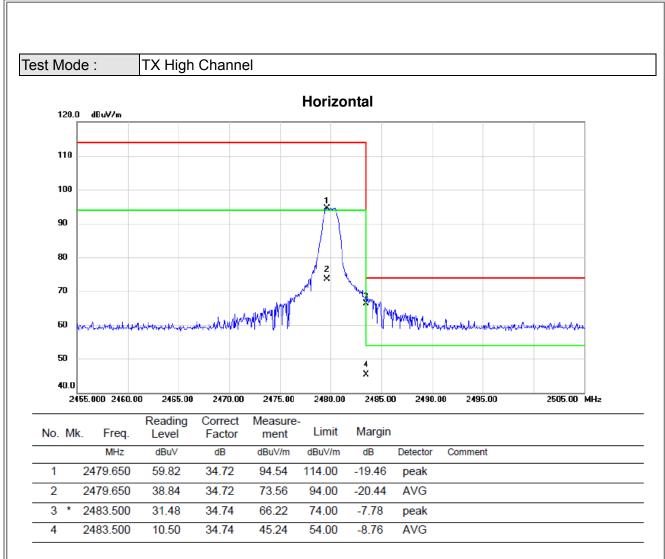
## **B**TL



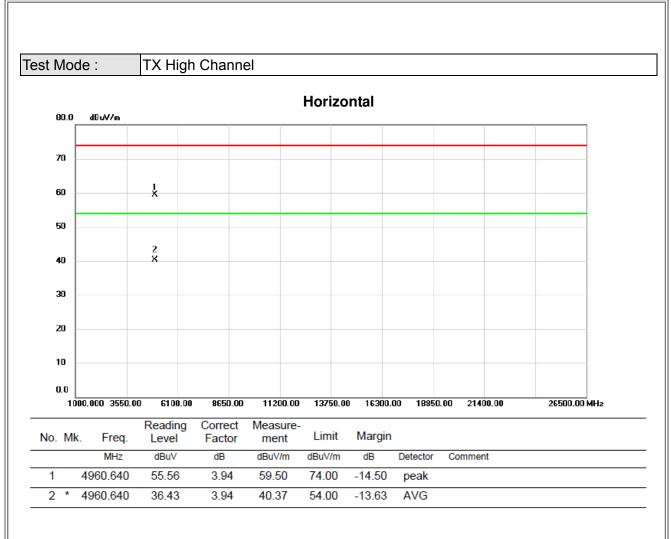












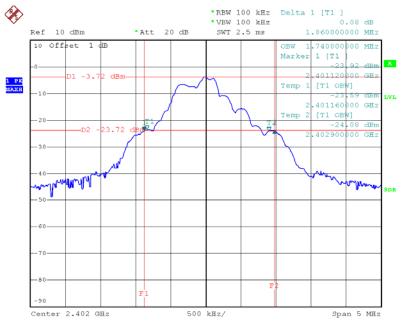
## ATTACHMENT E - BANDWIDTH

Report No.: BTL-FCCP-1-1512C072



Test Mode: TX Mode		
Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)
Low Channel	1.86	1.74
Middle Channel	1.83	1.76
High Channel	1.62	1.60

## TX Low Channel



Date: 15.JAN.2016 16:01:47

