	2AANU-HTL3170BV37 1260A-HTL3170BV37
	s (check one): ⊠Original Grant ⊡Class II Change
Equipment : Model Name : Applicant :	1507C276 SoundBar Speaker HTL3170B/37 GIBSON Innovations Ltd 5/F., Philips Electronics Building,5 Science Park East Avenue, Hong Kong Science Park,Shatin, New Territories, Hong Kong
Date of Test : Issued Date :	Jul. 22, 2015 Jul. 22, 2015 ~ Aug. 07, 2015 Aug. 10, 2015 BTL Inc.
Testing Engineer	: David Mao (David Mao)
Technical Manager	:(Leo Hung)
Authorized Signator	ry : <u>Secon h</u> (Steven Lu)
No.3, Jinshagang	I I NC . 1st Road, Shixia,Dalang Town, Dongguan, Guangdong, China. 9-8318-3000FAX: +86-769-8319-6000
Report No.: BTL-FICP-2-1507C276	Page 1 of 54

BIL



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.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL**'s authorized written approval.

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.

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REPORT ISSUED HISTORY

Description	Issued Date
Original Issue.	Aug. 10, 2015



1. CERTIFICATION

Equipment : Brand Name :	SoundBar Speaker PHILIPS
Model Name :	HTL3170B/37
Applicant :	GIBSON Innovations Ltd
Manufacturer :	GIBSON Innovations Ltd
Address :	5/F., Philips Electronics Building,5 Science Park East Avenue, Hong Kong
	Science Park, Shatin, New Territories, Hong Kong
Date of Test :	Jul. 22, 2015 ~ Aug. 07, 2015
Test Sample :	Engineering Sample
Standard(s) :	FCC Part15, Subpart C :2014 (15.249)/ ANSI C63.4-2013
	Canada RSS-210:2010
	RSS-GEN Issue 4, Nov 2014

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-FICP-2-1507C276) 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) Canada RSS-210:2010, RSS-GEN Issue 4, Nov 2014						
Standa	rdSection	Test Item	Judgment	Remark		
FCC	IC		oudgment	Remark		
15.207(a)	RSS-GEN 8.8	Conducted Emission	PASS			
15.205	RSS-210 Annex 8 (A2.9)	Restricted Band of Operation	PASS			
15.209 15.249(a)	RSS-210 Annex 8 (A8.1(a))	Radiated Emissions	PASS			
15.215(c)	RSS-GEN 8.8	20dB Bandwidth Test	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 BTL's test firm number for IC 4428B-1

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. Conducted Measurement :

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

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	uency Ant. H / V U,(dB) Note		Note									
		9KHz~30MHz	V	3.79										
		9KHz~30MHz	Н	3.57										
		30MHz~200MHz	V	3.82										
		30MHz~200MHz	Н	3.60										
DG-CB03	CISPR	200MHz~ 1,000MHz	V	3.86										
DG-CD03	CIOF IX	200MHz~ 1,000MHz	Н	3.94										
		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	SoundBar Speaker			
Brand Name	PHILIPS	PHILIPS		
Model Name	HTL3170B/37			
Model Difference	N/A			
	Operation Frequency	2405.35~2477.35 MHz		
Broduct Description	Modulation Technology	GFSK		
Product Description	Bit Rate of Transmitter	(2Mbps)		
	Output Power Max.	42.80 dBm		
PowerSource	DC voltage supplied from AC/DC adapter. Brand/ Model: PHILIPS / NU040A320125			
Power Rating	I/P:100-240V~50/60Hz 1.5A O/P: DC 36V 1.25A			
RF Module Model	AVMD6100-SWA15			

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)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	02	2405.35	12	2425.35	22	2445.35	32	2465.35
	03	2407.35	13	2427.35	23	2447.35	33	2467.35
	04	2409.35	14	2429.35	24	2449.35	34	2469.35
	05	2411.35	15	2431.35	25	2451.35	35	2471.35
	06	2413.35	16	2433.35	26	2453.35	36	2473.35
	07	2415.35	17	2435.35	27	2455.35	37	2475.35
	08	2417.35	18	2437.35	28	2457.35	38	2477.35
	09	2419.35	19	2439.35	29	2459.35		
	10	2421.35	20	2441.35	30	2461.35		
	11	2423.35	21	2443.35	31	2463.35		

3. Table for Filed Antenna:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
0	N/A	N/A	Printed	N/A	3.90	TX&RX
1	N/A	N/A	Printed	N/A	3.90	TX&RX

Note: Equipment with 2 diversity antennas operating in switched diversity mode by which at any moment in time only 1 antenna is used.

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 (Note (1))

For Conducted Test		
Final Test Mode Description		
Mode 1	TX Mode	

For Radiated Test			
Final Test Mode Description			
Mode 1 TX Mode (Note (1))			

Note:

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



3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

EUT

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.	Note
-	-	-	-	-	-	-

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-p ak	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 TESTPROCEDURE

- 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

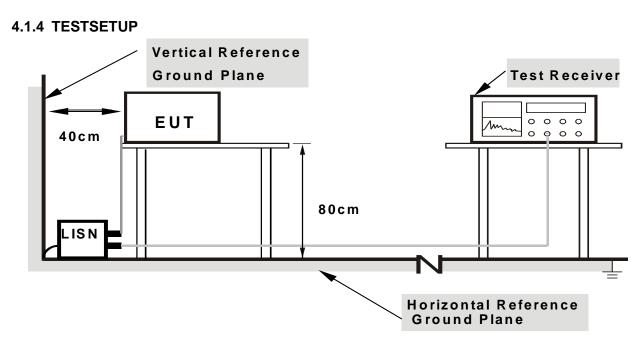
cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

- 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 DEVIATIONFROMTESTSTANDARD

No deviation





Note: 1.Support units were connected to second LISN.

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

from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting mode.

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.

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 (Frequency Range 9KHz -1000MHz)

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) & RSS-247 5.5, then the 15.209(a) & RSS-Gen limit in the table below has to be followed.

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

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 (Above 1000MHz)

	(dBuV/m) (at 3m)		
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

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 μV/m (54 dBμV/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	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

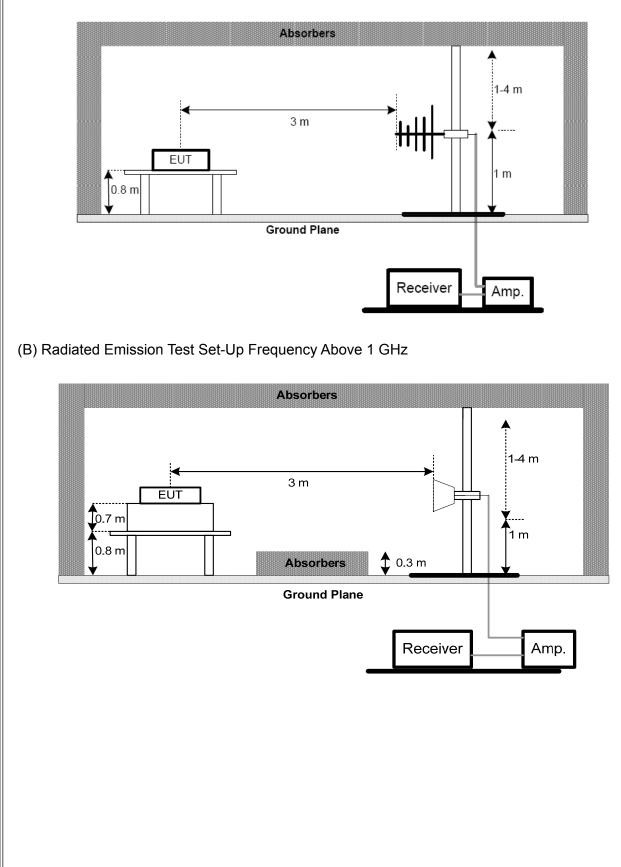
- a. The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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 0.8 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 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.
- 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.

4.2.3DEVIATION FROM TEST STANDARD

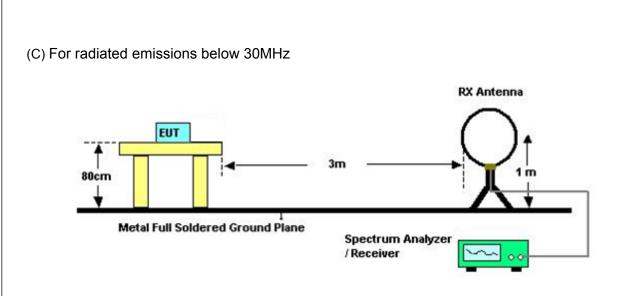
No deviation

4.2.4 TEST SETUP

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







4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (BELOW 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 (30 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 tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.5 EUT TEST CONDITIONS

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

5.6 TEST RESULTS

Please refer to the Attachment E

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	LISN	EMCO	3816/2	00052765	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	833364/017	Mar. 28, 2016		
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-0 1	N/A	N/A		

6. MEASUREMENT INSTRUMENTS LIST AND SETTING

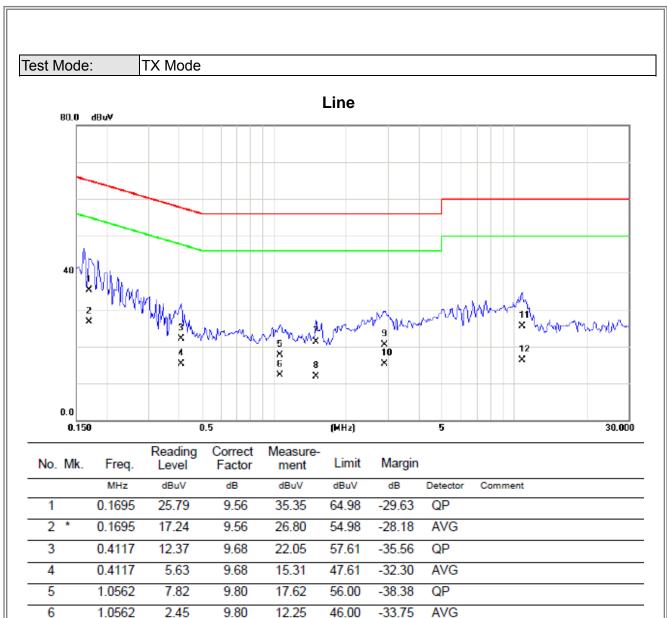
Radiated Emission Measurement								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016			
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015			
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015			
4	Test Cable	emci	LMR-400(30M Hz-1GHz)	C-01	Jul. 01, 2016			
5	Controller	СТ	SC100	N/A	N/A			
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-0 1	N/A	N/A			
7	Antenna	ETS	3115	00075789	Mar. 28, 2016			
8	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015			
9	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015			
10	Test Cable	emci	EMC104-SM-S M-10000(1GH z-26.5GHz)	C-68	Jul. 01, 2016			
11	Controller	СТ	SC100	N/A	N/A			
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016			
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016			
14	Active Loop Antenna			830749/020	Aug. 16, 2015			



	Bandwidth								
em		Manufacturer	Type No.	No. Serial No.	Calibrated unti				
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015				
Re	emark: "N/A" denotes All calibration	s no model name, s period of equipmer							

ATTACHMENT A - CONDUCTED EMISSION





46.00

56.00

46.00

56.00

46.00

60.00

50.00

-34.78

-34.01

-35.44

-30.61

-34.52

-33.70

AVG QP

AVG

QP

AVG

QP

AVG

6

7

8

9

10

11

12

1.0562

1.5015

1.5015

2.8921

2.8921

10.8320

10.8320

11.38

2.15

10.54

5.37

15.61

6.43

9.80

9.84

9.84

10.02

10.02

9.87

9.87

21.22

11.99

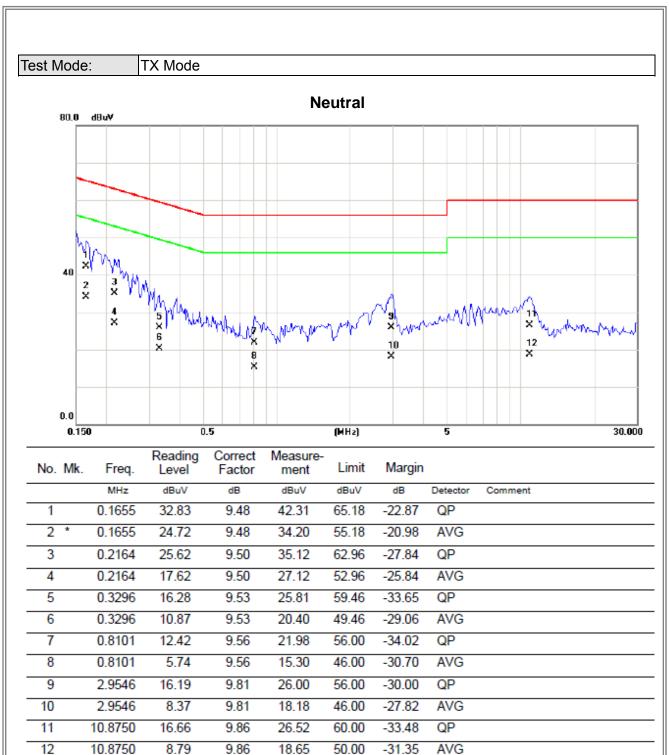
20.56

15.39

25.48

16.30





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



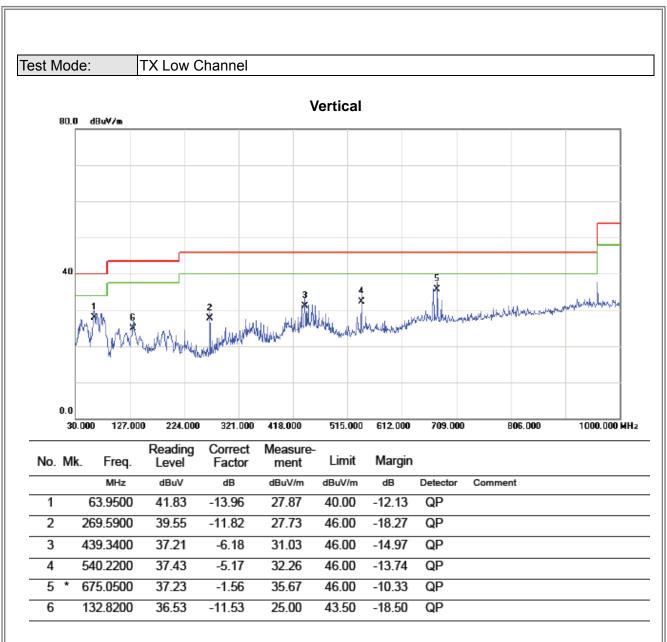
TX Mode

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00963	0°	13.45	24.9568	38.4068	127.9317	-89.5249	AVG
0.00963	0°	14.21	24.9568	39.1668	147.9317	-108.7649	PEAK
0.0235	0°	6.75	24.0783	30.8283	120.1829	-89.3545	AVG
0.0235	0°	8.11	24.0783	32.1883	140.1829	-107.9945	PEAK
0.0348	0°	3.13	23.3627	26.4927	116.7726	-90.2800	AVG
0.0348	0°	5.53	23.3627	28.8927	136.7726	-107.8800	PEAK
0.0429	0°	1.16	22.8497	24.0097	114.9551	-90.9454	AVG
0.0429	0°	2.5	22.8497	25.3497	134.9551	-109.6054	PEAK
0.4987	0°	19.38	19.8031	39.1831	73.6474	-34.4643	QP
1.7171	0°	23.72	19.5283	43.2483	69.5400	-26.2917	QP

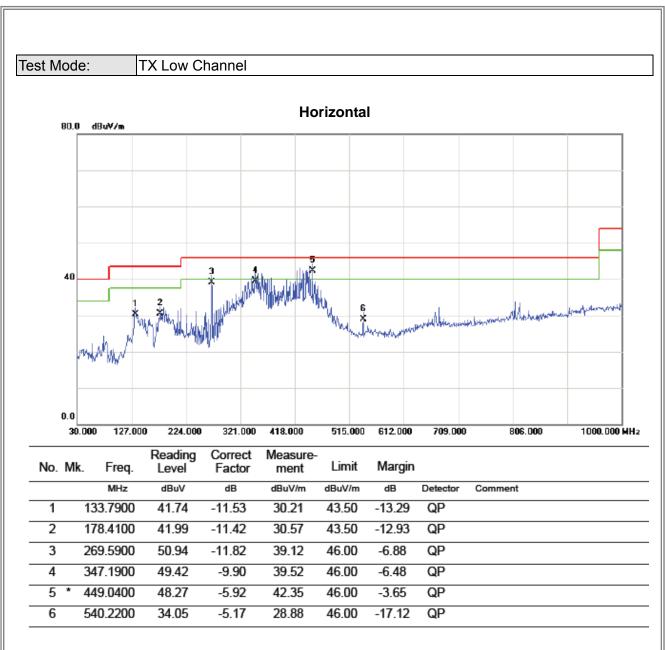
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00948	90°	11.16	24.3000	35.4600	128.0681	-92.6081	AVG
0.00948	90°	15.89	24.3000	40.1900	148.0681	-107.8781	PEAK
0.0232	90°	5.94	24.0973	30.0373	120.2945	-90.2571	AVG
0.0232	90°	6.28	24.0973	30.3773	140.2945	-109.9171	PEAK
0.0317	90°	4.23	23.5590	27.7890	117.5830	-89.7940	AVG
0.0317	90°	7.19	23.5590	30.7490	137.5830	-106.8340	PEAK
0.0436	90°	3.54	22.8053	26.3453	114.8145	-88.4692	AVG
0.0436	90°	3.86	22.8053	26.6653	134.8145	-108.1492	PEAK
0.4952	90°	20.17	19.8115	39.9815	73.7086	-33.7271	QP
1.7179	90°	25.56	19.5282	45.0882	69.5400	-24.4518	QP

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

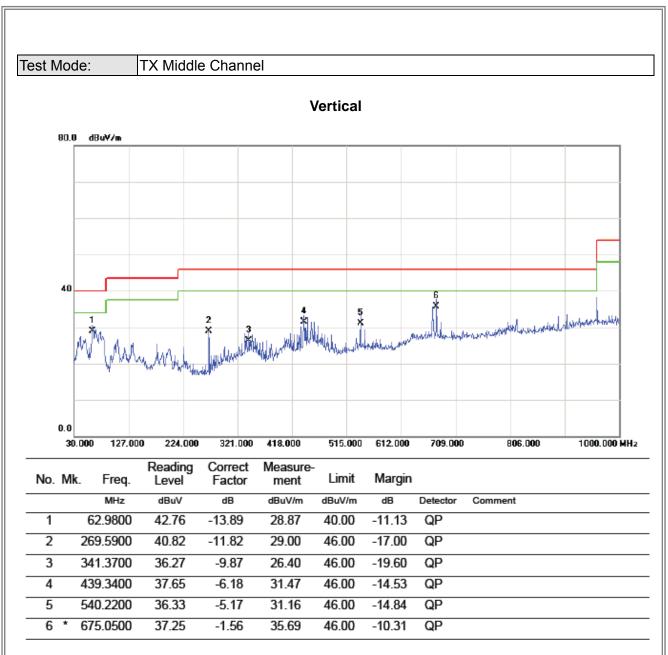




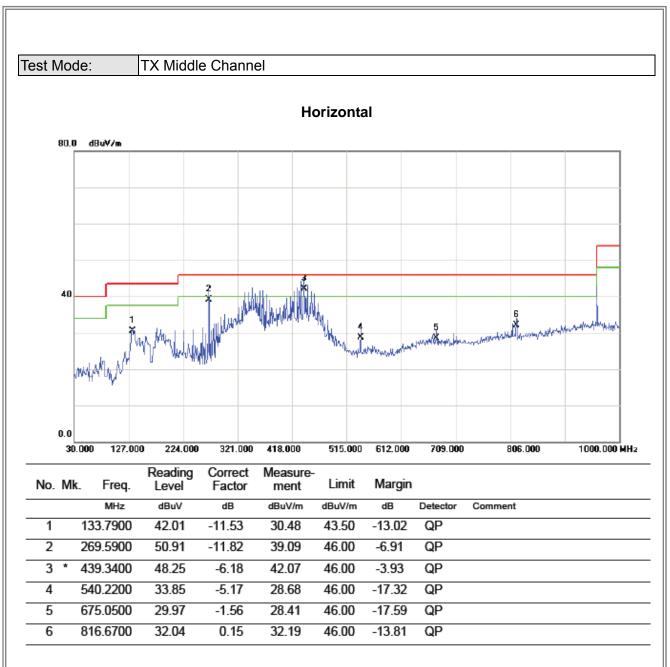




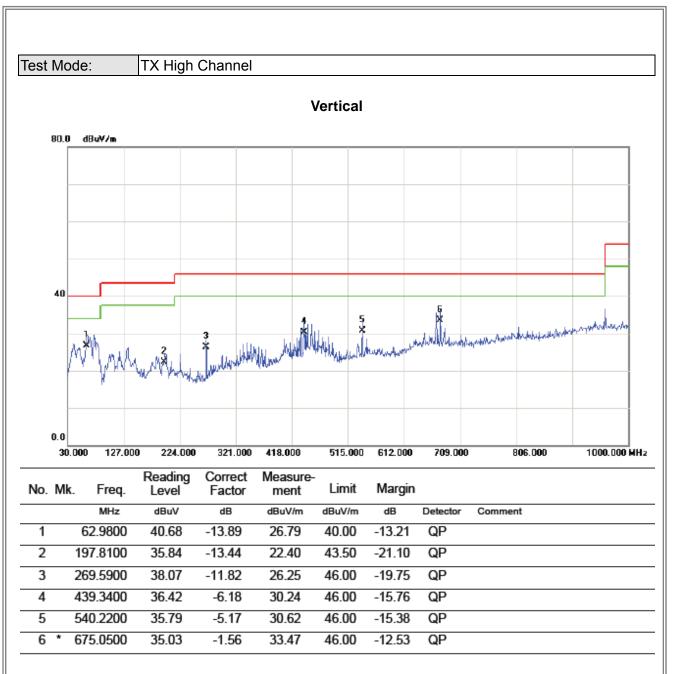




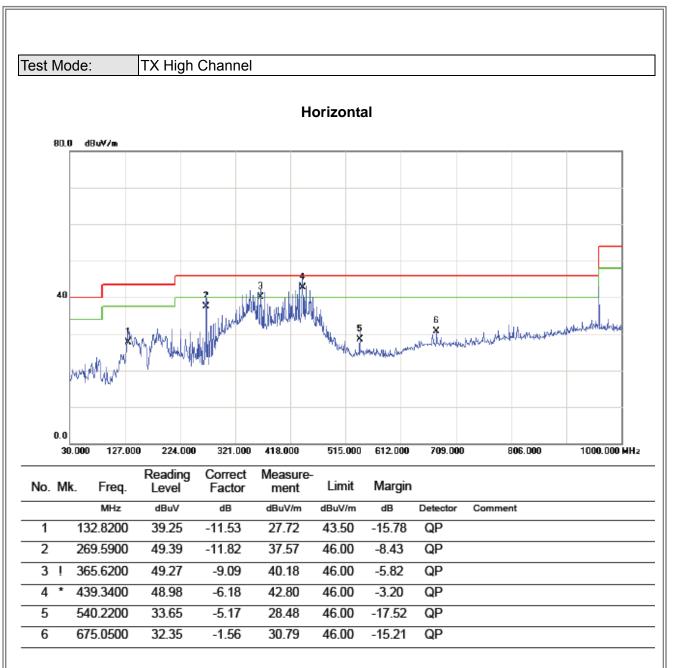




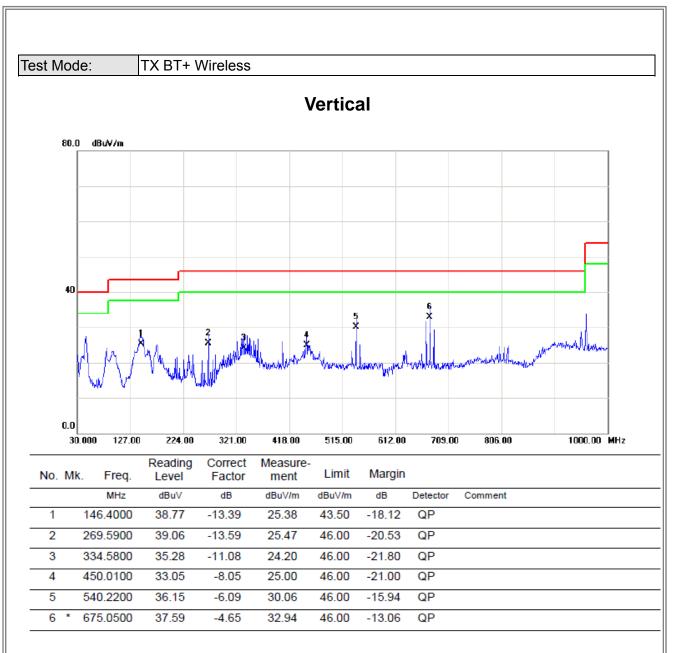




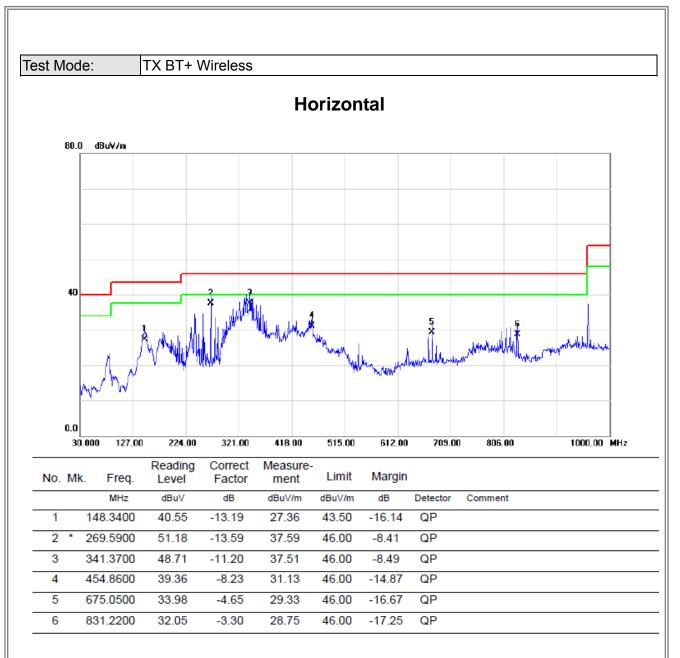






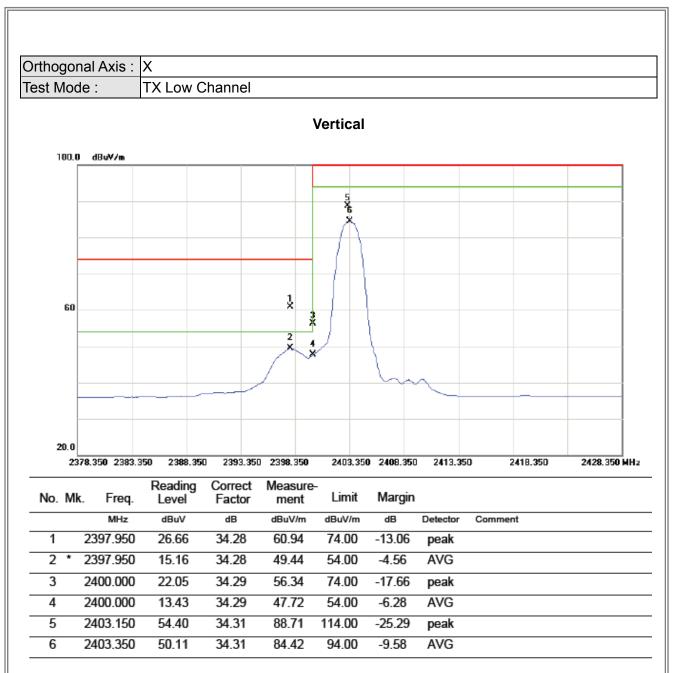




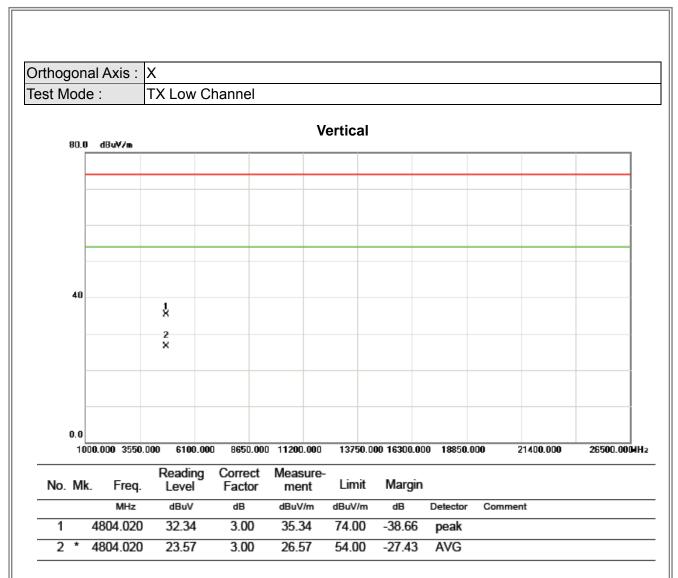


ATTACHMENT D -RADIATED EMISSION (ABOVE 1000MHZ)

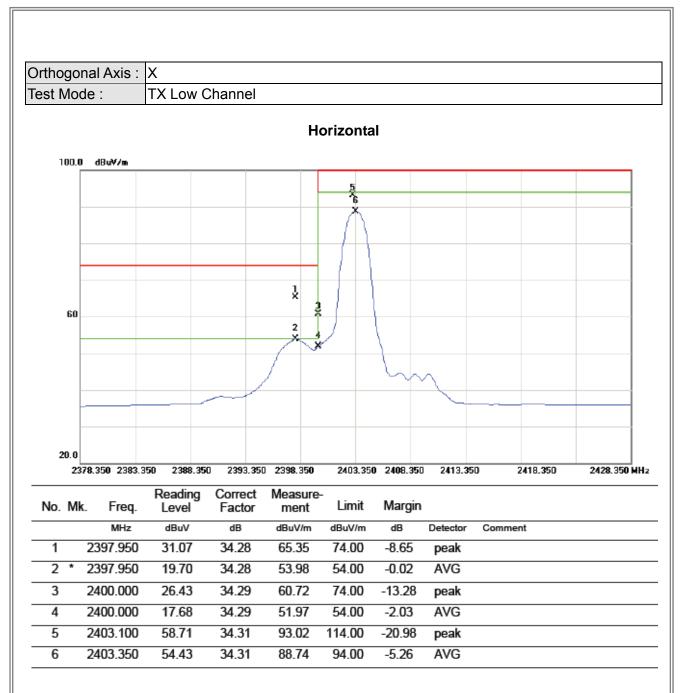




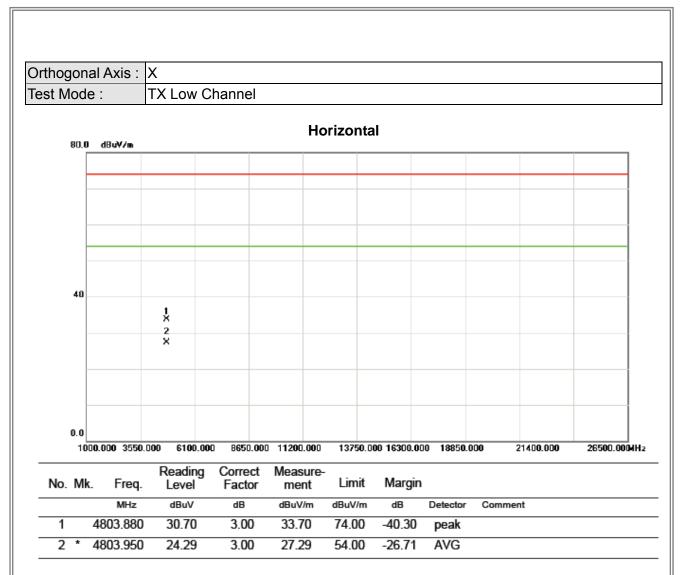




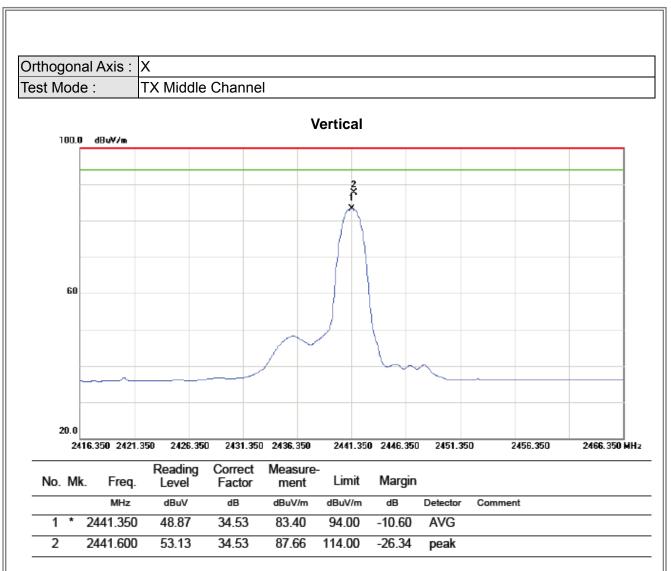




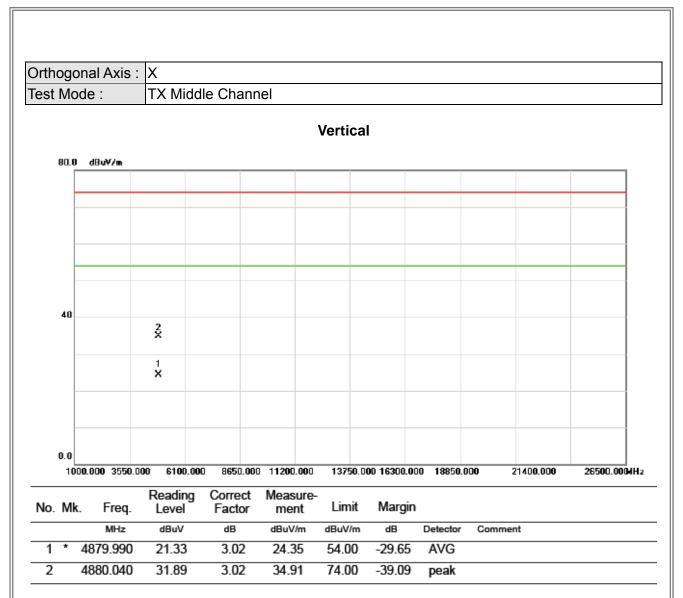




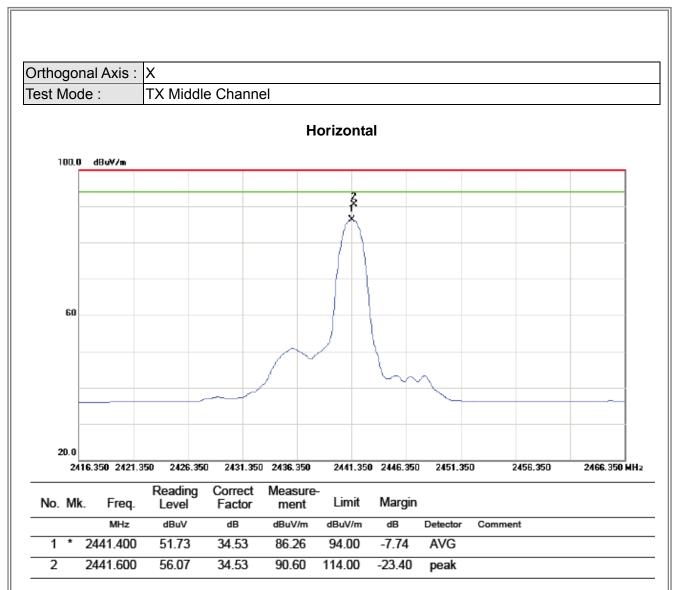




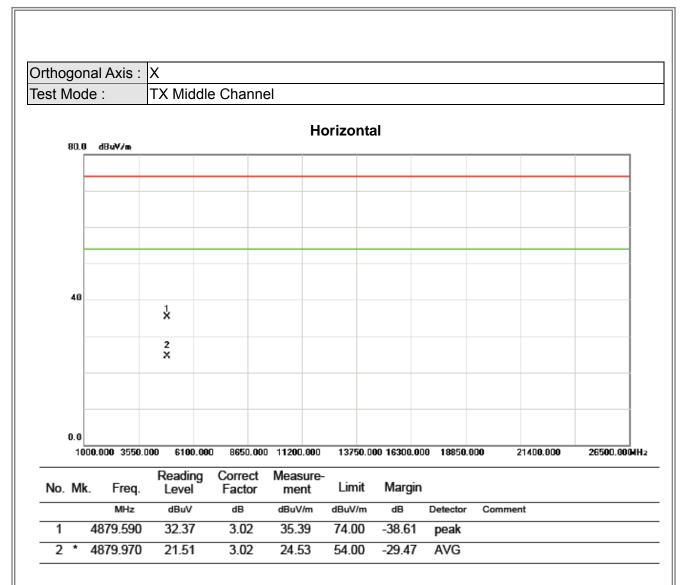




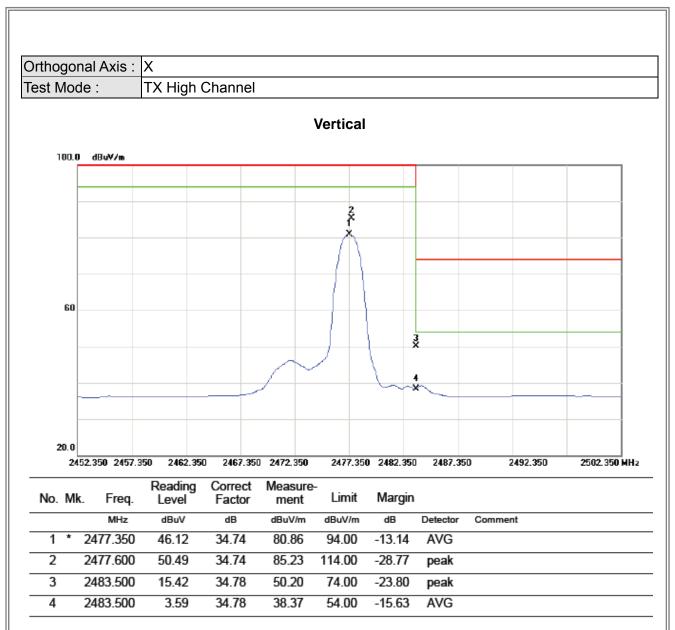




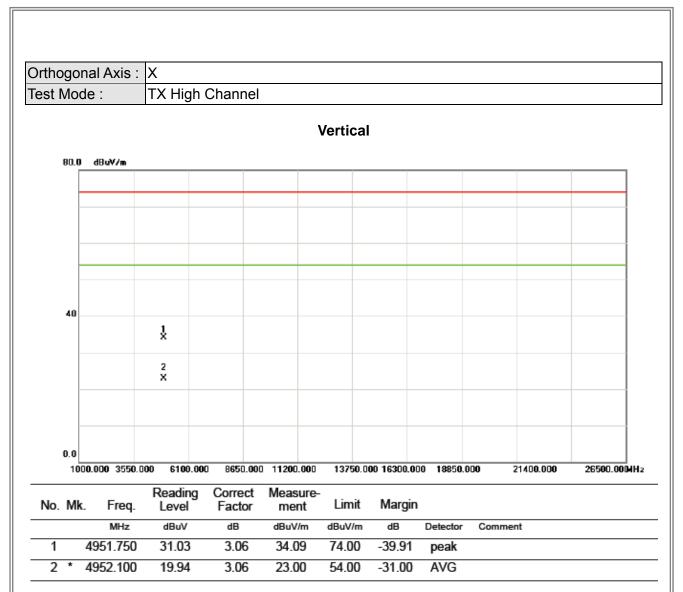




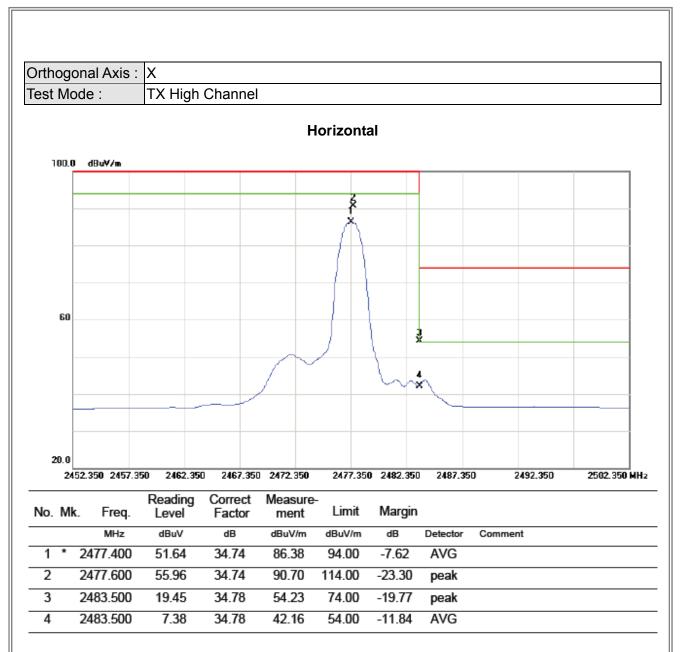




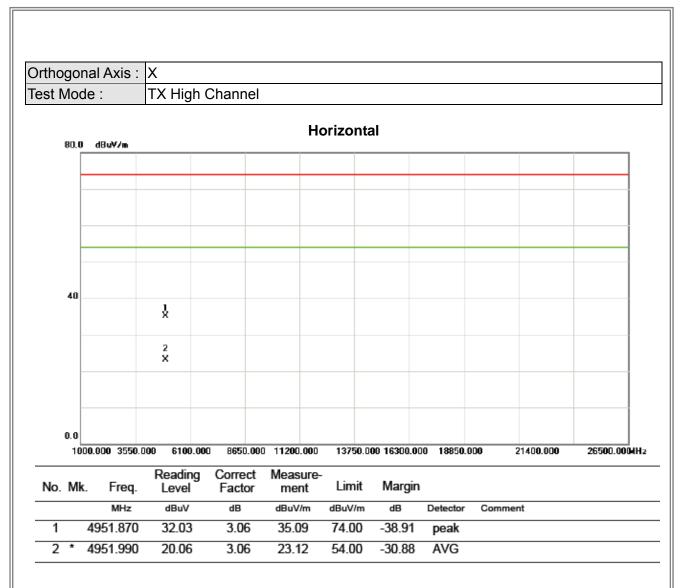




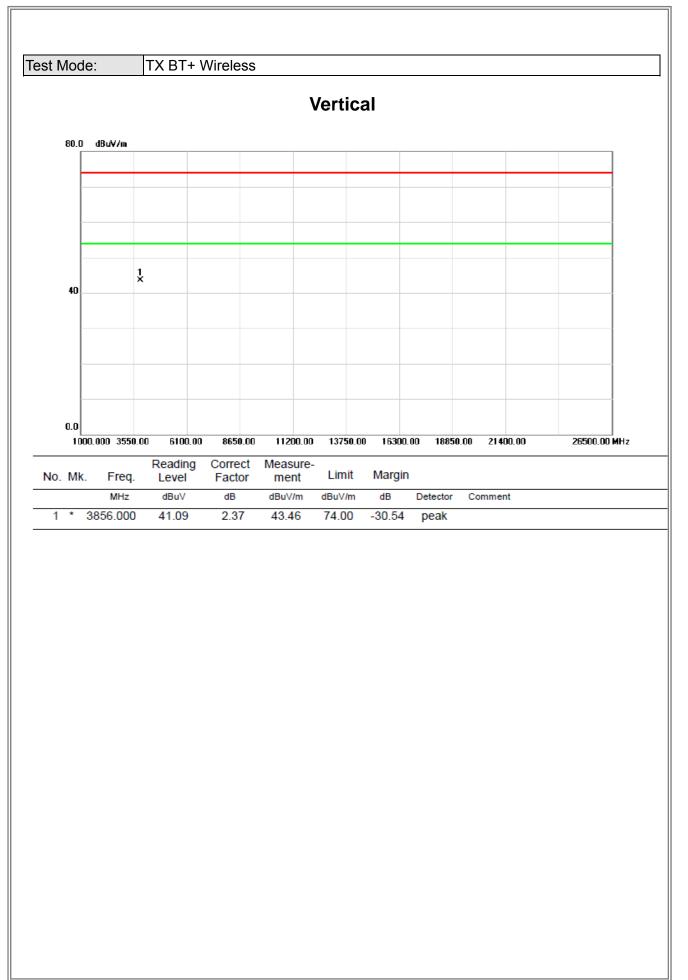




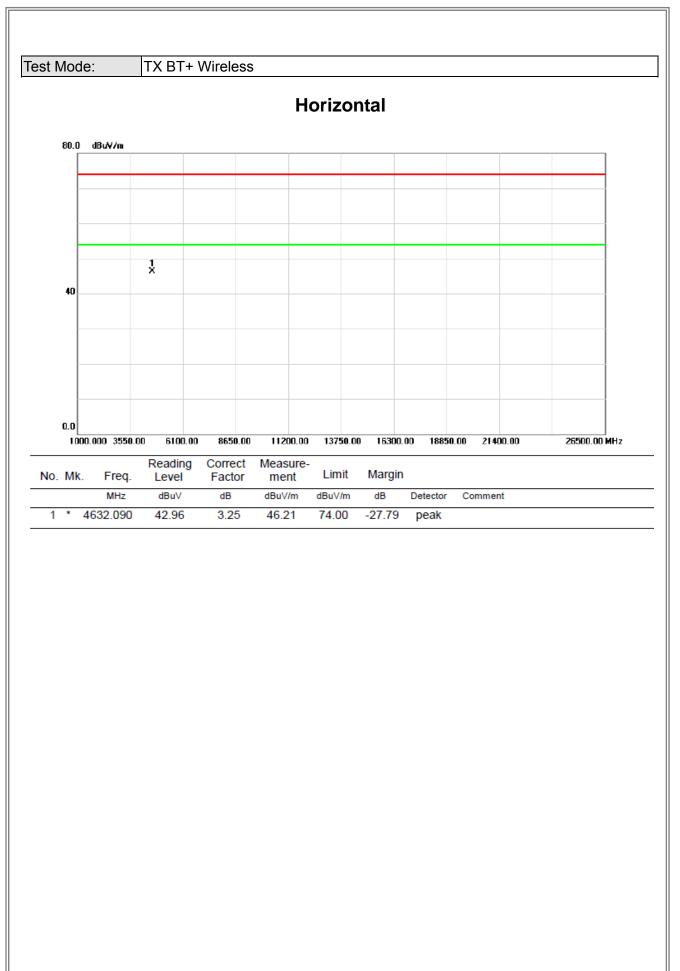












ATTACHMENT E - BANDWIDTH



