



	CC Radio Test Report CC ID: 2APR6-R712W
This report cond	erns (check one): ⊠Original Grant
Project No. Equipment Test Model Series Model Applicant Address	: 1805C012 : 2.4GHz Wireless Receiver : R712 : N/A : Shenzhen Doking Technology Co.,Ltd : 21FJiayu Building Songgang Town Baoan District Shenzhen
Date of Receipt Date of Test Issued Date Tested by	: May 10, 2018 : May 10, 2018 ~ Jun. 11, 2018 : Jun. 28, 2018 : BTL Inc.
Testing Enginee	
Technical Mana	(Vincent Tan) ger : <u>Shawn Xioo</u> (Shawn Xiao)
Authorized Sign	atory : <u>Seeven lu</u> (Steven Lu)
No.3, Jinshagai	TL INC. ng 1st Road, Shixia, Dalang Town, Donggu Guangdong, China. 59-8318-3000 FAX: +86-769-8319-6000 NUMPLAB CODE 200788-0





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).

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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

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.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

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

Limitation

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



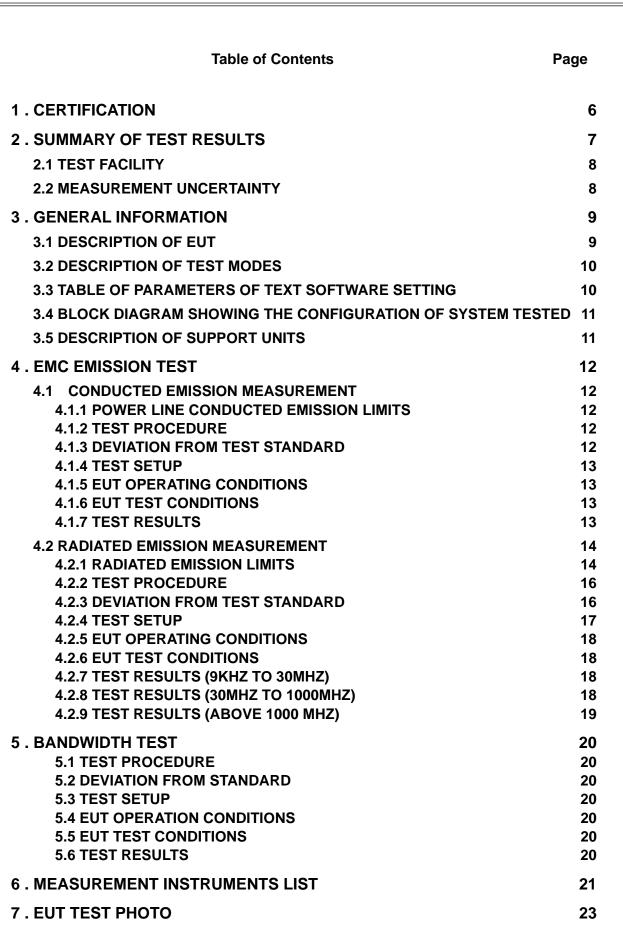






Table of Contents	Page
APPENDIX A - CONDUCTED EMISSION	27
APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)	30
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)	35
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)	42
APPENDIX E - BANDWIDTH	55





REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1805C012	Original Issue.	Jun. 28, 2018





1. CERTIFICATION

Equipment Brand Name Test Model Series Model Applicant Manufacturer Address Factory Address Date of Test	 2.4GHz Wireless Receiver Doking R712 N/A Shenzhen Doking Technology Co.,Ltd Shenzhen Doking Technology Co.,Ltd 21FJiayu Building Songgang Town Baoan District Shenzhen Shenzhen Doking Technology Co.,Ltd 21FJiayu Building Songgang Town Baoan District Shenzhen Shenzhen Doking Technology Co.,Ltd 2/F, 3/F,BulidingA&3/F,BulidingB, Dingfeng Hi-Tech Park,Shapuwei Industrial Zone,Songgang -Town,Baoan District Shenzhen, Guangdong,China May 10, 2018 ~ Jun. 11, 2018
	: May 10, 2018 ~ Jun. 11, 2018
Test Sample Standard(s)	 Engineering Sample NO.: D180503641 FCC Part15, Subpart C (15.249) / 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-1-1805C012) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15, Subpart C (15.249)

Standard(s) Section	Test Item	Judgment	Remark
15.207(a)	Conducted Emission	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: 854385 BTL's designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

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

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

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

B. Radiated Measurement :

medealeme						
Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)		
		9KHz~30MHz	V	3.79		
		9KHz~30MHz	Н	3.57		
		30MHz ~ 200MHz	V	3.82		
	CISPR	CISPR		30MHz ~ 200MHz	Н	3.78
DG-CB03				200MHz ~ 1,000MHz	V	4.10
DG-CB03			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 DESCRIPTION OF EUT

Equipment	2.4GHz Wireless Receiver		
Brand Name	Doking		
Test Model	R712		
Series Model	N/A		
Model Difference	N/A		
Product Description	Operation Frequency	2410 ~ 2473 MHz	
	Modulation Technology	GFSK	
	Bit Rate of Transmitter	1 Mbps	
	Field Strength	92.65 dBuV/m (Peak Max) 79.02 dBuV/m (AVG Max)	
Power Source	Supplied from USB port.		
EUT Power Rating	DC 5V		

Note:

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





2. Channel List:

Channel	Frequency (MHz)	Channel	Frequenc (MHz)	Channel	Frequency (MHz)
00	2410	01	2442	02	2473

3. Table for Filed Antenna

Ant	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	0

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 Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 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 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

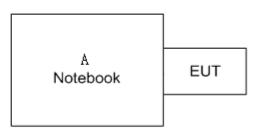
During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final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

Test Software Version	RF Measure Tool		
Frequency (MHz)	2410	2442	2473
Parameters	N/A	N/A	N/A





3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
А	Notebook	Lenovo	E40	DOC	EB22953770

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

Note:

(1) The support equipment was authorized by Declaration of Conformity (DOC).





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Frequency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHZ)	Quasi-peak	Average	
0.15 -0.50	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 - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.2 TEST PROCEDURE

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

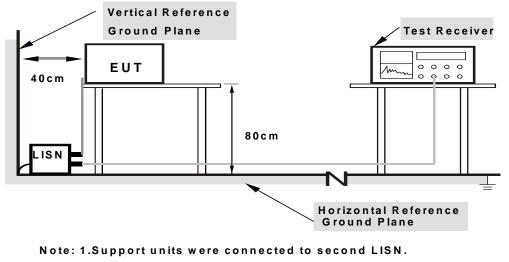
4.1.3 DEVIATION FROM TEST STANDARD

No deviation





4.1.4 TEST SETUP



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 function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 53% Test Voltage: 120V

4.1.7 TEST RESULTS

Please refer to the Appendix 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.
- (3) " N/A" denotes test is not applicable to this device.



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 μ V/m (54 dB μ 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	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 detecto	

DWELL TIME OF PERIODIC OPERATION MEASUREMENT

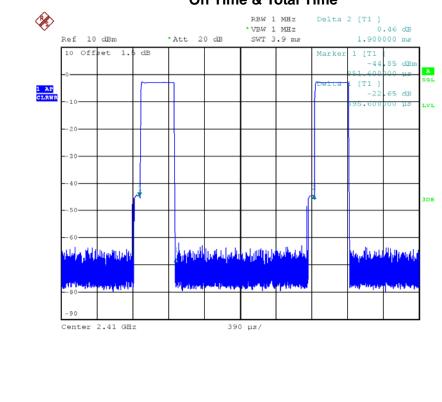
Duty Cycle = On Time/Total Time

T_{ON}: 0.3956 ms

T_{TOTAL}: 1.9 ms

Duty Cycle = 0.2082/100%=20.82%

Average Reading = Peak value + 20log (Duty cycle), AV=Peak-13.63



On Time & Total Time





4.2.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. 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 radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 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

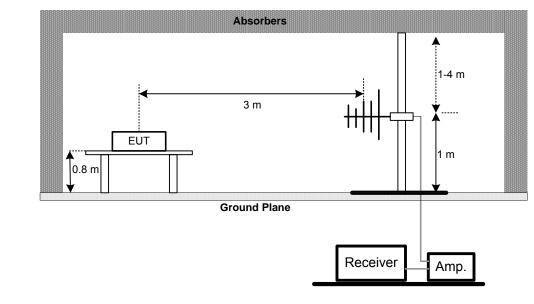
No deviation



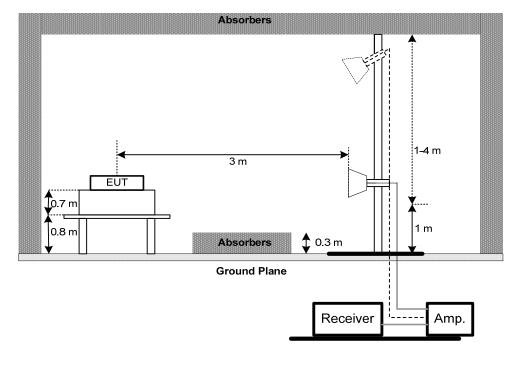


4.2.4 TEST SETUP

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



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







(C) For radiated emissions below 30MHz RX Antenna Bocm Bocm Metal Full Soldered Ground Plane Spectrum Analyzer /Receiver

4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5** 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: 60% Test Voltage: DC 5V

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix B

Remark:

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

4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

Remark:

- (1) Measuring frequency range from 30MHz to 1000MHz.
- (2) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.



4.2.9TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Appendix D.

Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (2) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (3) EUT Orthogonal Axis:
 - "X" denotes Laid on Table, "Y" denotes Vertical Stand, "Z" denotes Side Stand
- (4) 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
- (5) 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: 25°C Relative Humidity: 60% Test Voltage: DC 5V

5.6 TEST RESULTS

Please refer to the Appendix E.



6. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019		
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019		
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019		
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019		
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
6	Cable	N/A	RG223	12m	Oct. 19, 2018		

	Radiated Emission Below 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019		
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018		
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018		
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018		
5	Controller	СТ	SC100	N/A	N/A		
6	Controller	MF	MF-7802	MF780208416	N/A		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
8	Antenna	EM	EM-6876-1	230	Mar. 05, 2019		





	Radiated Emission Above 1GHz							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019			
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 11, 2019			
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019			
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019			
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018			
6	Antenna	EM	EM-6876-1	230	Mar. 11, 2019			
7	Controller	СТ	SC100	N/A	N/A			
8	Controller	MF	MF-7802	MF780208416	N/A			
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018			
10	Measurement Software Farad		EZ-EMC Ver.NB-03A1-01	N/A	N/A			

			Bandwidth Measurement						
Ite	em	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
	1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018			

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

All calibration period of equipment list is one year.





7. EUT TEST PHOTO

Conducted Measurement Photos









Radiated Measurement Photos

9KHz to 30MHz



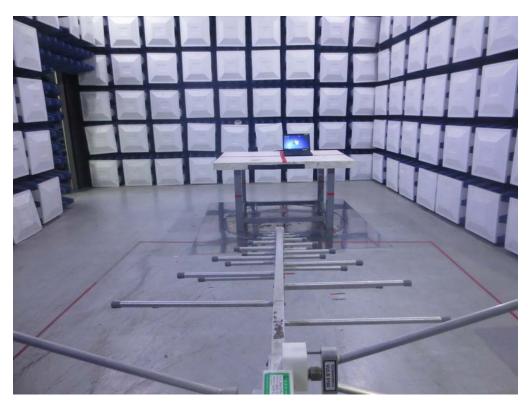






Radiated Measurement Photos

30MHz to 1000MHz



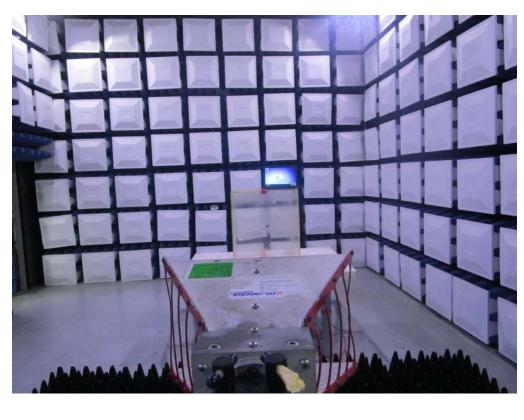






Radiated Measurement Photos

Above 1000MHz





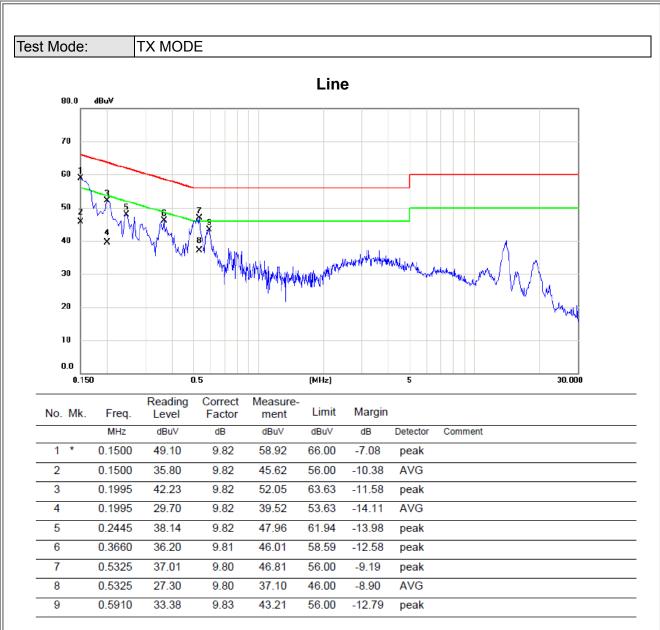




APPENDIX A - CONDUCTED EMISSION

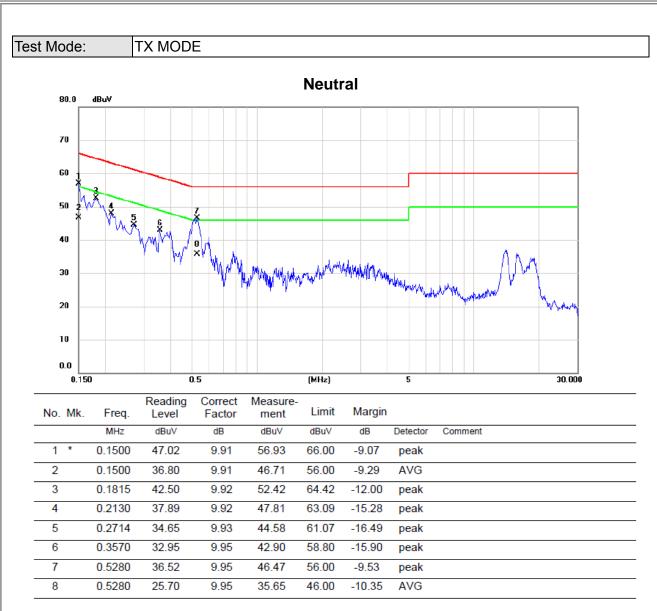












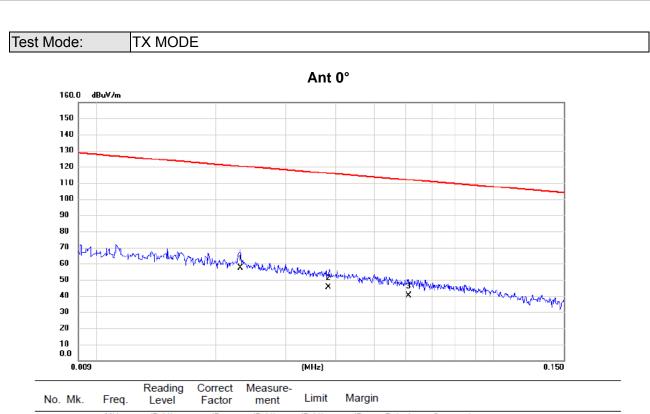




APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)



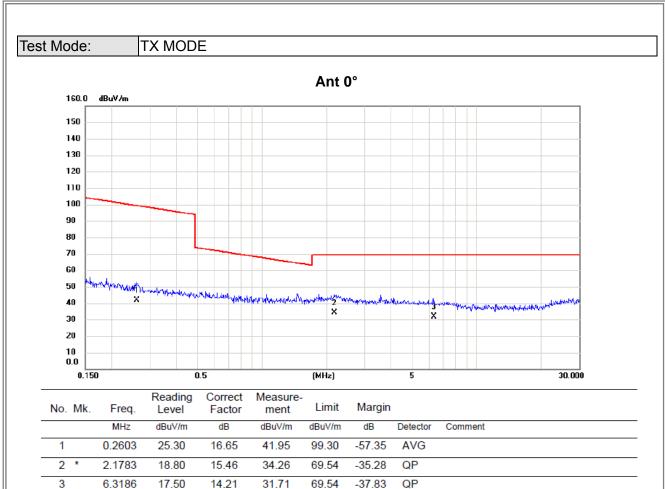




No. Mk.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0230	37.80	19.53	57.33	120.37	-63.04	AVG	
2	0.0384	26.50	19.07	45.57	115.92	-70.35	AVG	
3	0.0610	21.80	18.51	40.31	111.90	-71.59	AVG	









2

3

0.0393

0.0640

25.30

20.10

19.04

18.45

44.34

38.55

115.72

111.48

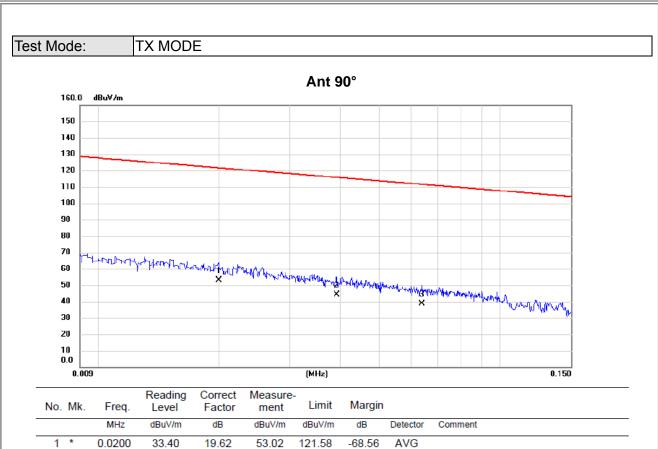
-71.38

-72.93

AVG

AVG









Test Mode: TX MODE Ant 90° 160.0 dBuV/m 150 140 130 120 110 100 90 80 70 60 50 Month 2 X 40 Ř 30 20 10 0.0 30.000 0.150 0.5 (MHz) 5 Reading Correct Measure-Limit Margin No. Mk. Freq. Level Factor ment MHz dBuV/m dB dBuV/m dBuV/m dB Detector Comment 1 0.3100 22.80 16.61 39.41 97.78 -58.37 AVG 2 * 2.1898 21.30 15.45 36.75 69.54 -32.79 QP 3 6.1860 17.70 14.22 31.92 69.54 -37.62 QP

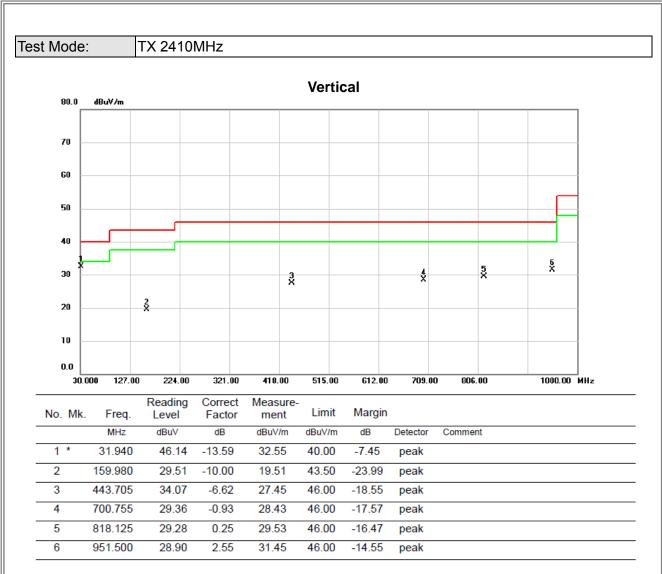




APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

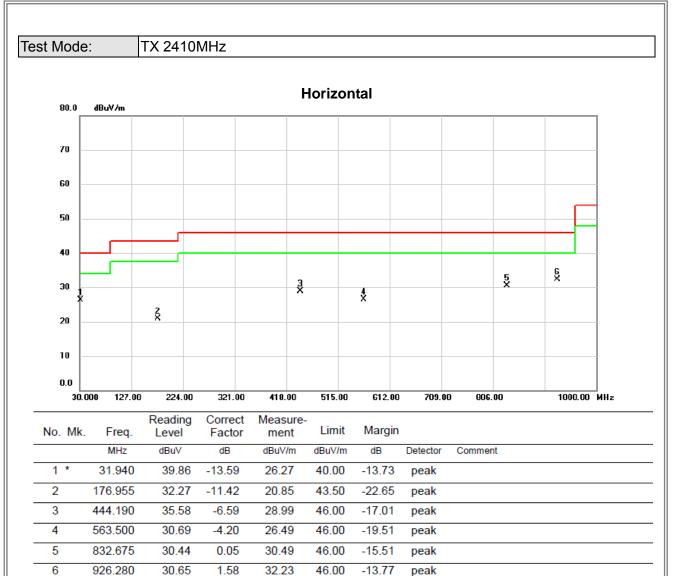






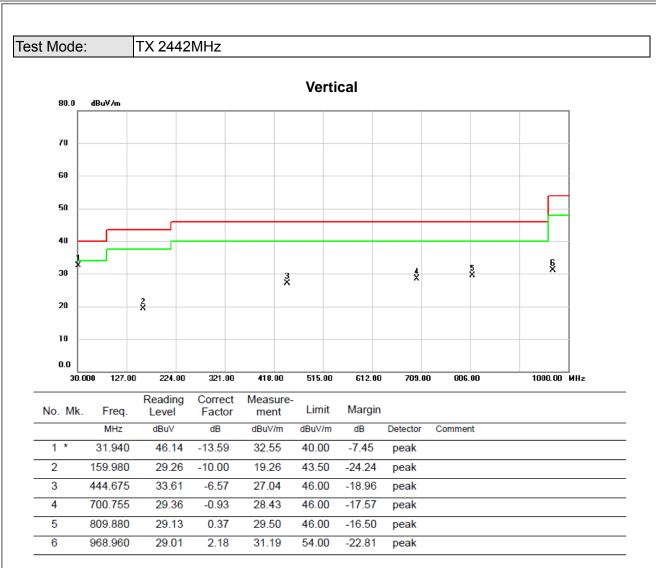






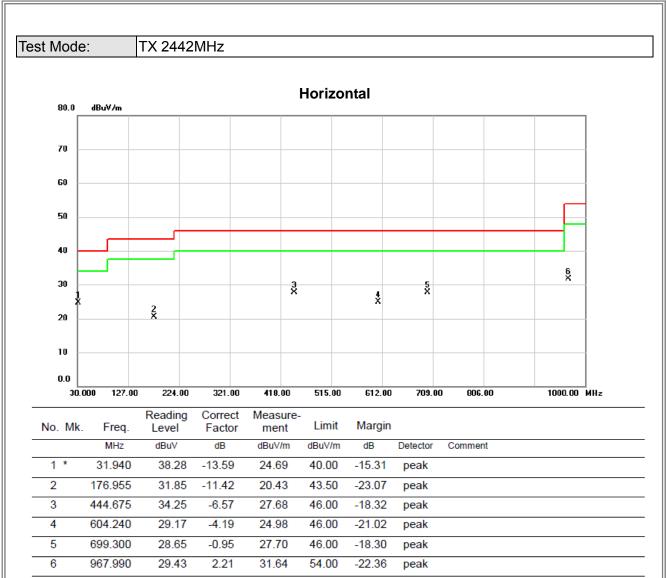






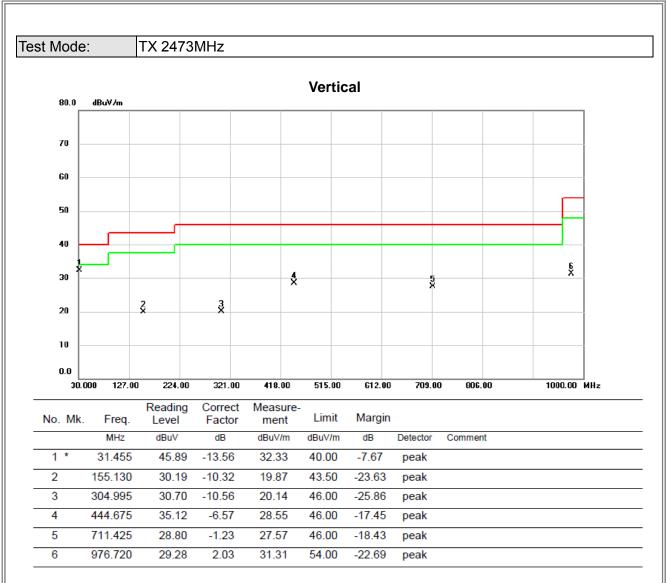






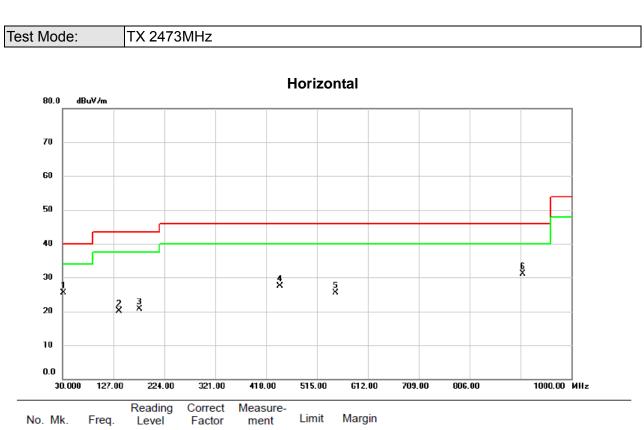












No. Mk.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	31.940	39.11	-13.59	25.52	40.00	-14.48	peak	
2	137.670	31.81	-11.65	20.16	43.50	-23.34	peak	
3	176.955	32.18	-11.42	20.76	43.50	-22.74	peak	
4	444.675	34.16	-6.57	27.59	46.00	-18.41	peak	
5	550.405	29.72	-4.18	25.54	46.00	-20.46	peak	
6	906.880	30.34	0.78	31.12	46.00	-14.88	peak	

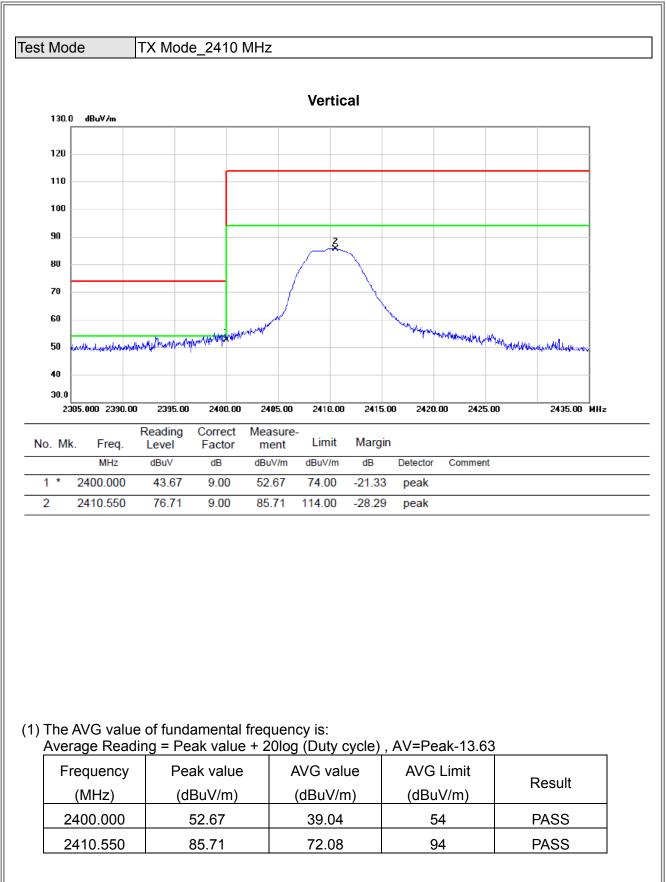




APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)







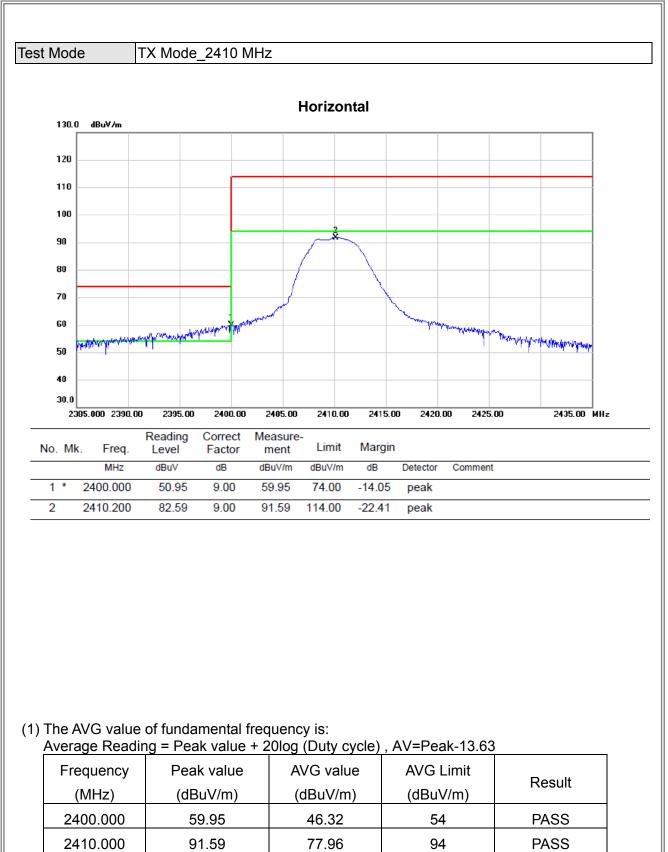












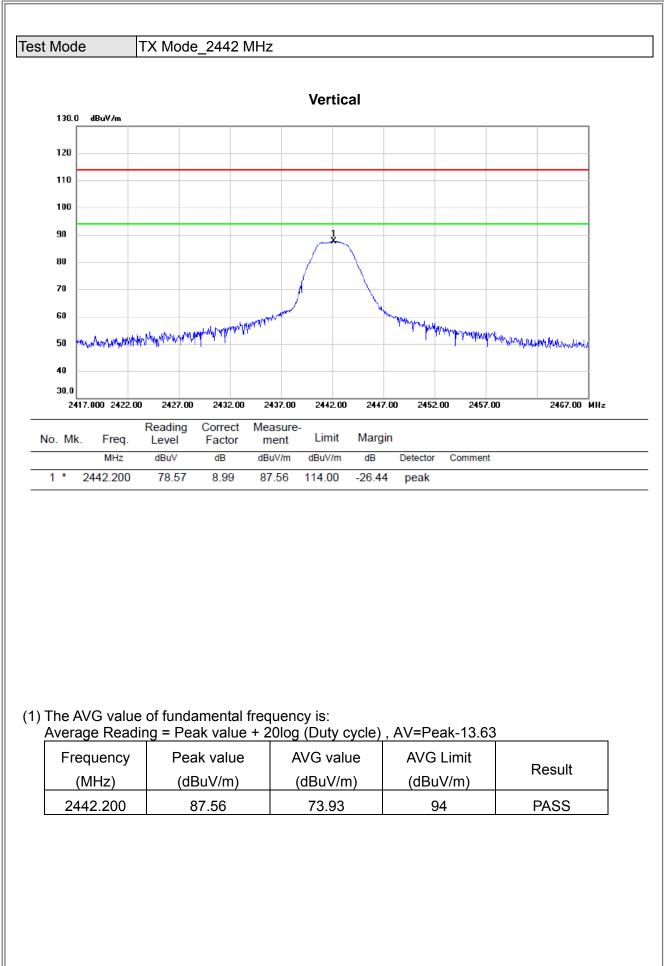






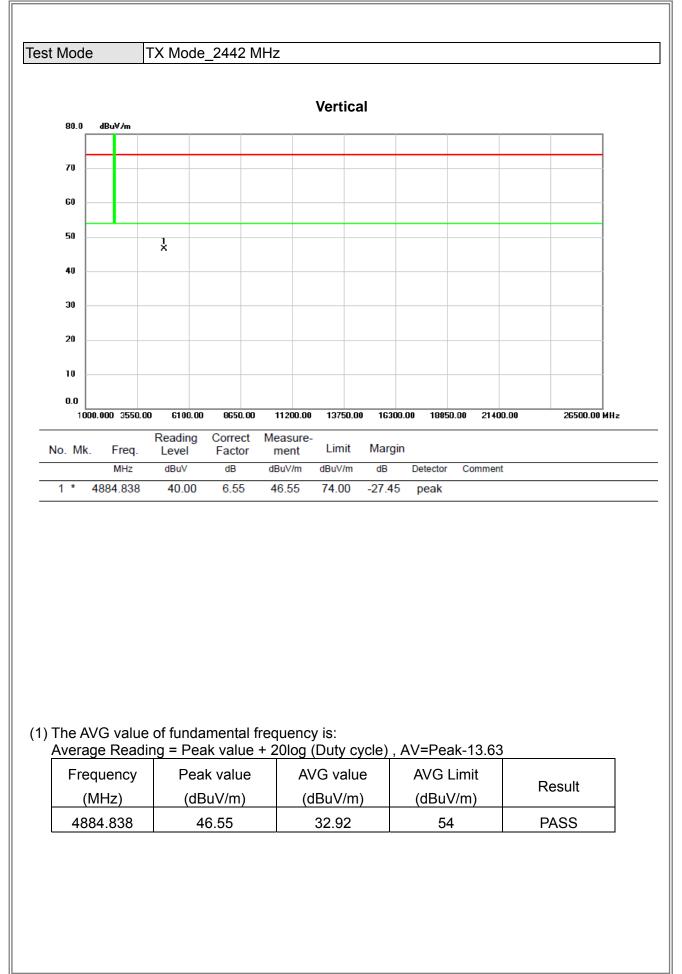






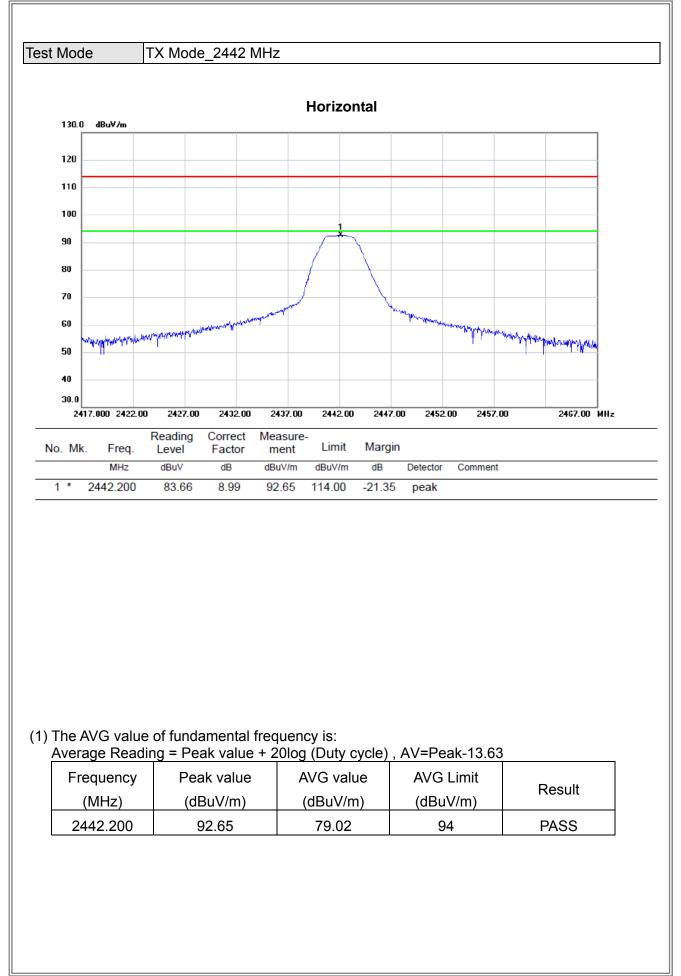






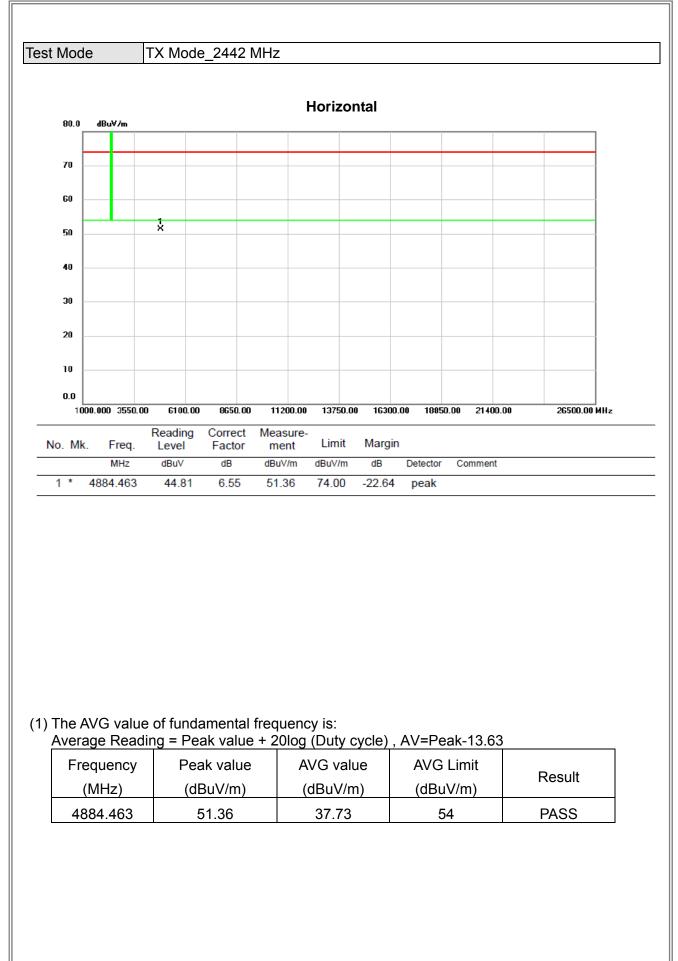






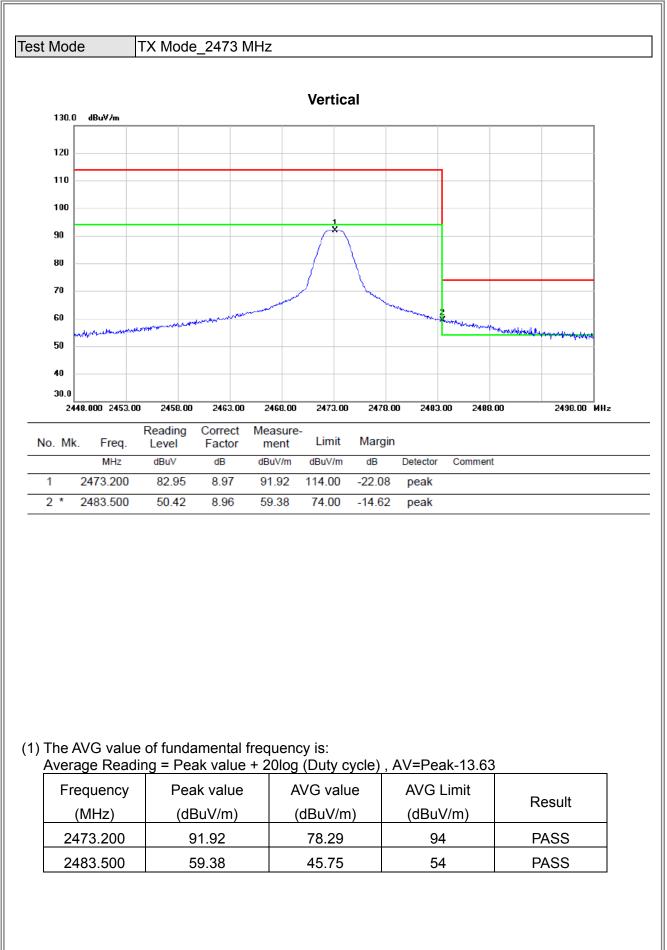






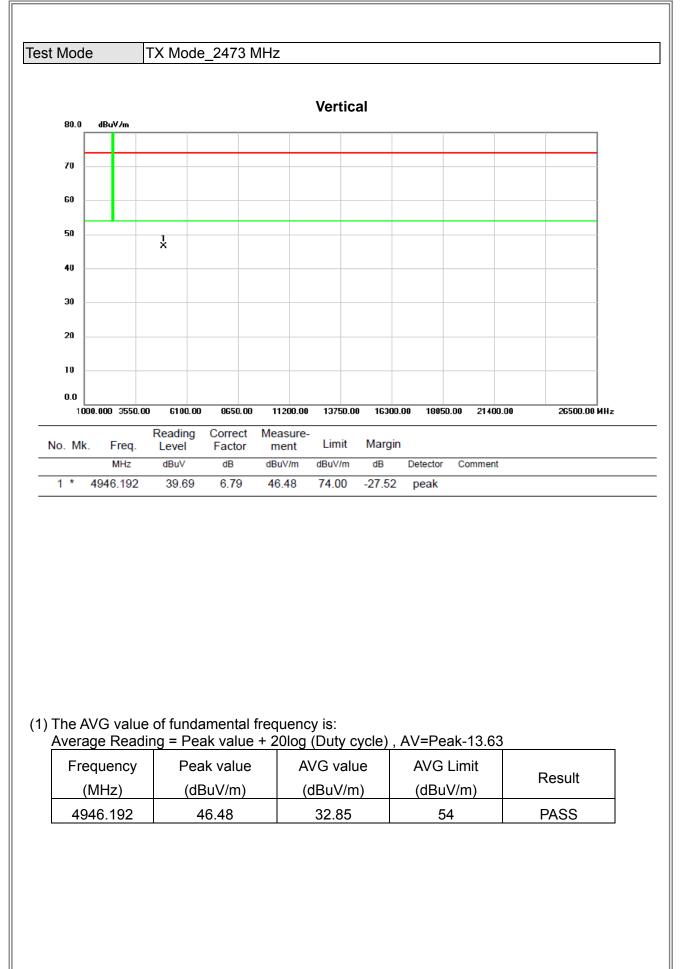






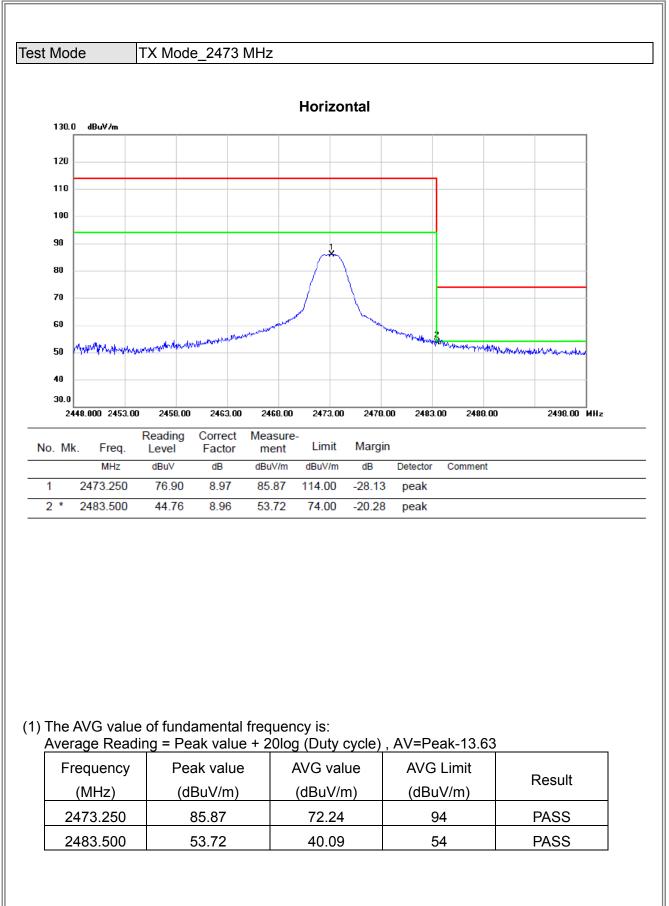






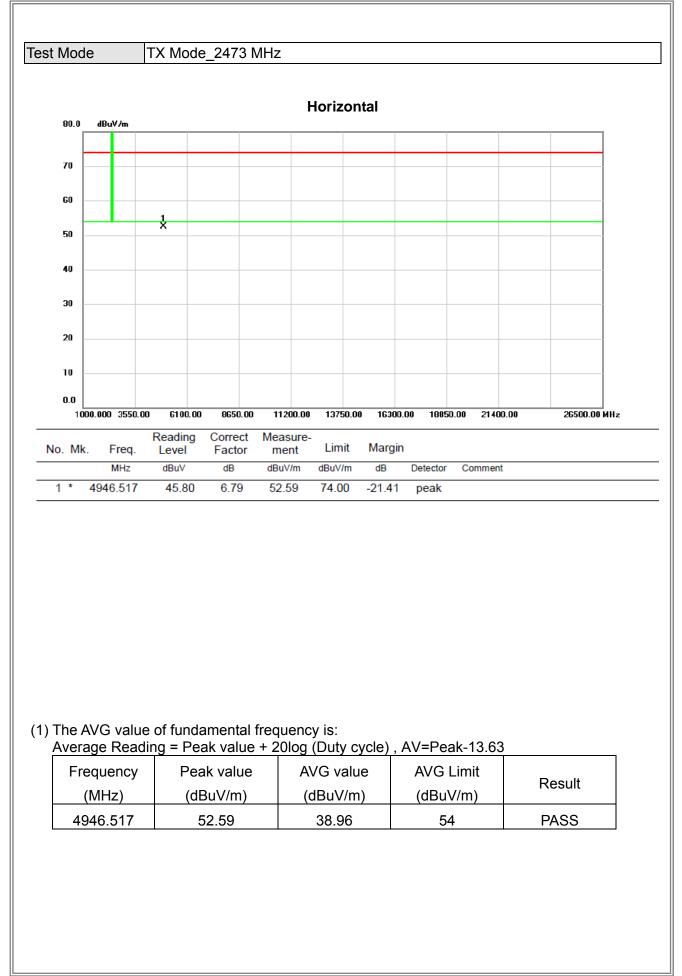
















APPENDIX E - BANDWIDTH





Mode: TX Mode_	2410 MHz/2442 M	Hz/2473 MHz		
Frequency (MHz)	20dB Ba (MF		99% Occupied BW (MHz)	
2410	1.2	22		1.09
2442	1.3	33		1.21
2473	1.4	4	1.39	
	TX Mode	_2410 MHz		
Ref 10 dBm	* R * V	BW 100 kHz Delta BW 100 kHz	a 1 [T1] -0.45 dB 1.220000000 MHz	
10 Offset 1.5 du		OBW	1.090000000 MHz er 1 [T1]	
-0	Bm		-22 59 dBm 2.409560000 GHz	λ .
1 PK VIEW 10	т	Temp	1 [T1 OBW] -17.74 dBm 2.409620000 GHz	LVL
D2 -22.	93 dBm	Temp	-17.65 dBm	
30			2.410710000 GHz	
-40	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- and	mon theme	
50			•]m	3DE
60				
70				
- 9 0	F1	F2		
Center 2.41 GHz	500 kHz	/	Span 5 MHz]

3TL



