
FCC Test Report

Report No.: AGC05465170401FE03

FCC ID : 2AL6Y-TITANX2
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Tablet PC
BRAND NAME : hipstreet
MODEL NAME : TITAN X2
CLIENT : 2048450 Ontario Inc- .dba Datatech
DATE OF ISSUE : May 18, 2017
STANDARD(S) : FCC Part 15 Rules
TEST PROCEDURE(S)
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

CAUTION:

This report shall not be reproduced except in full without the written permission of the test laboratory and shall not be quoted out of context.



Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 18, 2017	Valid	Original Report

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	4
2. GENERAL INFORMATION.....	5
2.1. PRODUCT DESCRIPTION	5
2.2. TABLE OF CARRIER FREQUENCY	6
3. MEASUREMENT UNCERTAINTY.....	7
4. DESCRIPTION OF TEST MODES.....	7
5. SYSTEM TEST CONFIGURATION	8
5.1. CONFIGURATION OF EUT SYSTEM.....	8
5.2. EQUIPMENT USED IN EUT SYSTEM.....	8
5.3. SUMMARY OF TEST RESULTS	8
6. TEST FACILITY.....	9
7. RADIATED EMISSION.....	10
7.1 TEST LIMIT	10
7.2. MEASUREMENT PROCEDURE.....	11
7.3. TEST SETUP	13
7.4. TEST RESULT	14
8. BAND EDGE EMISSION.....	28
8.1. MEASUREMENT PROCEDURE.....	28
8.2 TEST SETUP	28
8.3 RADIATED TEST RESULT	28
9. 20DB BANDWIDTH	37
9.1. MEASUREMENT PROCEDURE.....	37
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	37
9.3. MEASUREMENT RESULTS	38
10. FCC LINE CONDUCTED EMISSION TEST	46
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST	46
10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	46
10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	47
10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	47
10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	48
APPENDIX A: PHOTOGRAPHS OF TEST SETUP.....	50
APPENDIX B: PHOTOGRAPHS OF EUT.....	52

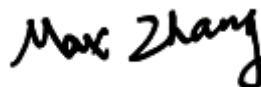
1. VERIFICATION OF CONFORMITY

Applicant	2048450 Ontario Inc- .dba Datatech
Address	17 Regal Court, Markham, ON - L3R 8G1 , Ontario, Canada
Manufacturer	2048450 Ontario Inc- .dba Datatech
Address	17 Regal Court, Markham, ON - L3R 8G1 , Ontario, Canada
Product Designation	Tablet PC
Brand Name	hipstreet
Test Model	TITAN X2
Date of test	May 15, 2017 to May 18, 2017
Deviation	None
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.249.

Tested by



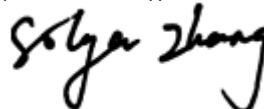
Max Zhang(Zhang Yi) May 18, 2017

Reviewed by



Bart Xie(Xie Xiaobin)) May 18, 2017

Approved by



Solger Zhang(Zhang Hongyi)
Authorized Officer May 18, 2017

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
Maximum field strength	90.25dBuV/m(AV)@3m
Bluetooth Version	V4.0 BLE and BR/EDR
Modulation	GFSK, $\pi/4$ -DQPSK, 8DPSK for BR/EDR GFSK for BLE
Number of channels	79 for BR/EDR, 40 for BLE
Antenna Gain	0dBi
Antenna Designation	Integrated Antenna (Met 15.203 Antenna requirement)
Hardware Version	EM_T8370A_V6.0
Software Version	TitanX2-ANDROID6.0-V01-V1.0.0
Power Supply	DC 5V by adapter or DC 3.7V by battery

2.2. TABLE OF CARRIER FREQUENCY

BR/EDR channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

BLE Channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2404MHZ
	:	:
	38	2478 MHZ
	39	2480 MHZ

3. MEASUREMENT UNCERTAINTY

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 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.18\text{dB}$
2	All emissions, radiated	$\pm 3.91\text{dB}$
3	Temperature	$\pm 0.5^\circ\text{C}$
4	Humidity	$\pm 2\%$

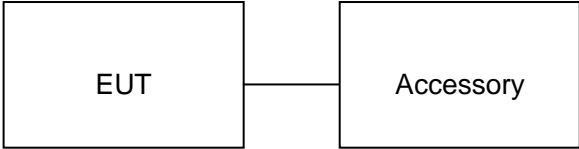
4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel $\pi/4$ -DQPSK
5	Middle channel $\pi/4$ -DQPSK
6	High channel $\pi/4$ -DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link with charging
Note: 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases. 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.	

5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure :



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	TABLET PC	TITAN X2	2AL6Y-TITANX2	EUT
2	Adapter	XCMS03-0510	DC5V/1A	Support

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249&15.209	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.215	20dB bandwidth	Compliant
§15.207	Conducted Emission	Compliant

6. TEST FACILITY

Site	Dongguan Precise Testing Service Co., Ltd.
Location	Building D, Baoding Technology Park, Guangming Road2, Dongcheng District, Dongguan, Guangdong, China.
FCC Registration No.	371540
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014.

ALL TEST EQUIPMENT LIST

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 3, 2016	July 2, 2017
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 3, 2016	July 2, 2017
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 3, 2016	July 2, 2017
RF Cable	SCHWARZBECK	AK9515E	96221	July 3, 2016	July 2, 2017
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 3, 2016	June 2, 2017
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 3, 2016	June 2, 2017
Spectrum analyzer	Agilent	E4407B	MY46185649	June 3, 2016	June 2, 2017
Power Sensor	Agilent	U2021XA	MY55050474	June 3, 2016	June 2, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	June 3, 2016	June 2, 2017
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 3, 2016	June 2, 2017

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 3, 2016	July 2, 2017
Artificial Mains Network	Narda	L2-16B	000WX31025	July 3, 2016	July 2, 2017
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 3, 2016	July 2, 2017
RF Cable	SCHWARZBECK	AK9515E	96222	July 3, 2016	July 2, 2017
Shielded Room	CHENGYU	843	PTS-002	June 3, 2016	June 2, 2017

7. RADIATED EMISSION

7.1 TEST LIMIT

Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		μ V/m	dB(μ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Other: 74.0 dB(μ V)/m (Peak) 54.0 dB(μ V)/m (Average)	

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use minimum resolution bandwidth of 1 MHz. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

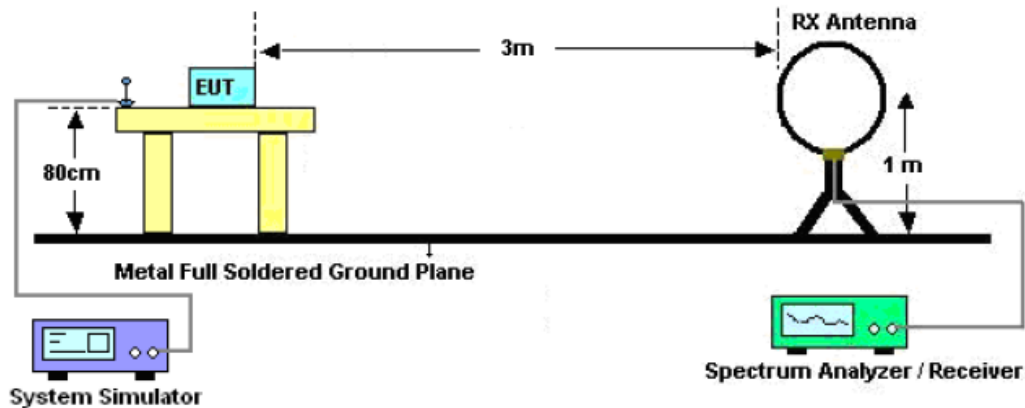
The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz RBW 1.5MHz/ VBW 5MHz for Peak, RBW 1.5MHz/10Hz for Average

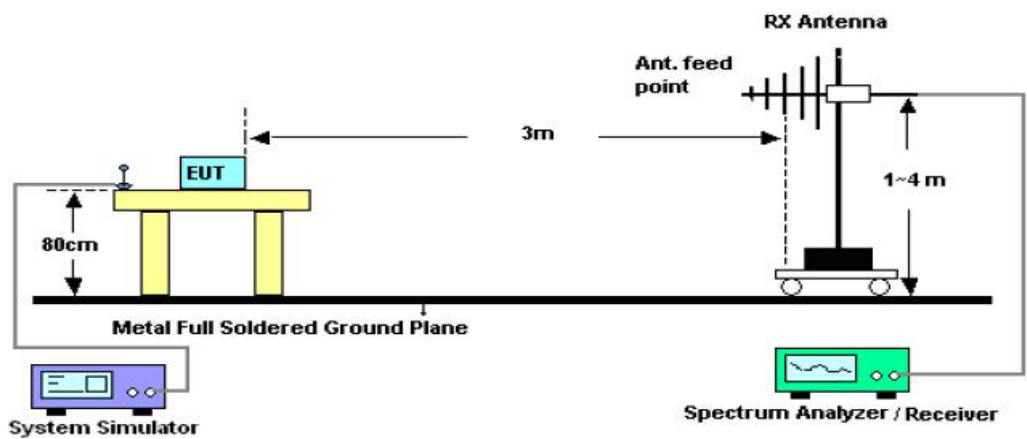
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

7.3. TEST SETUP

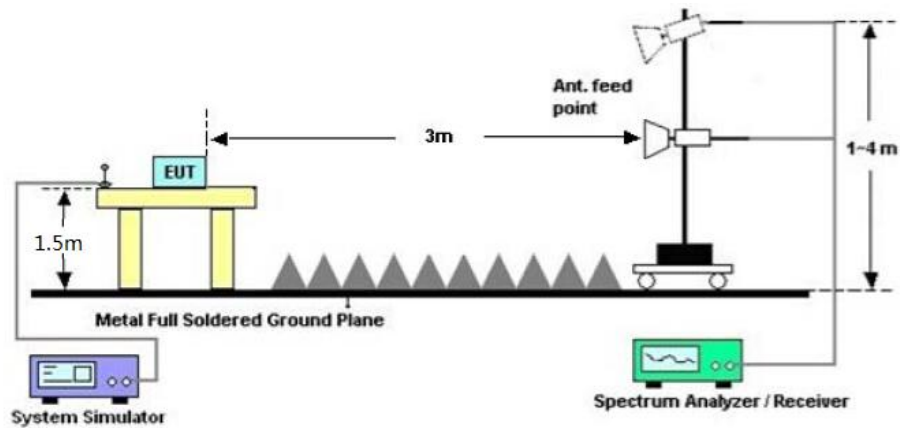
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



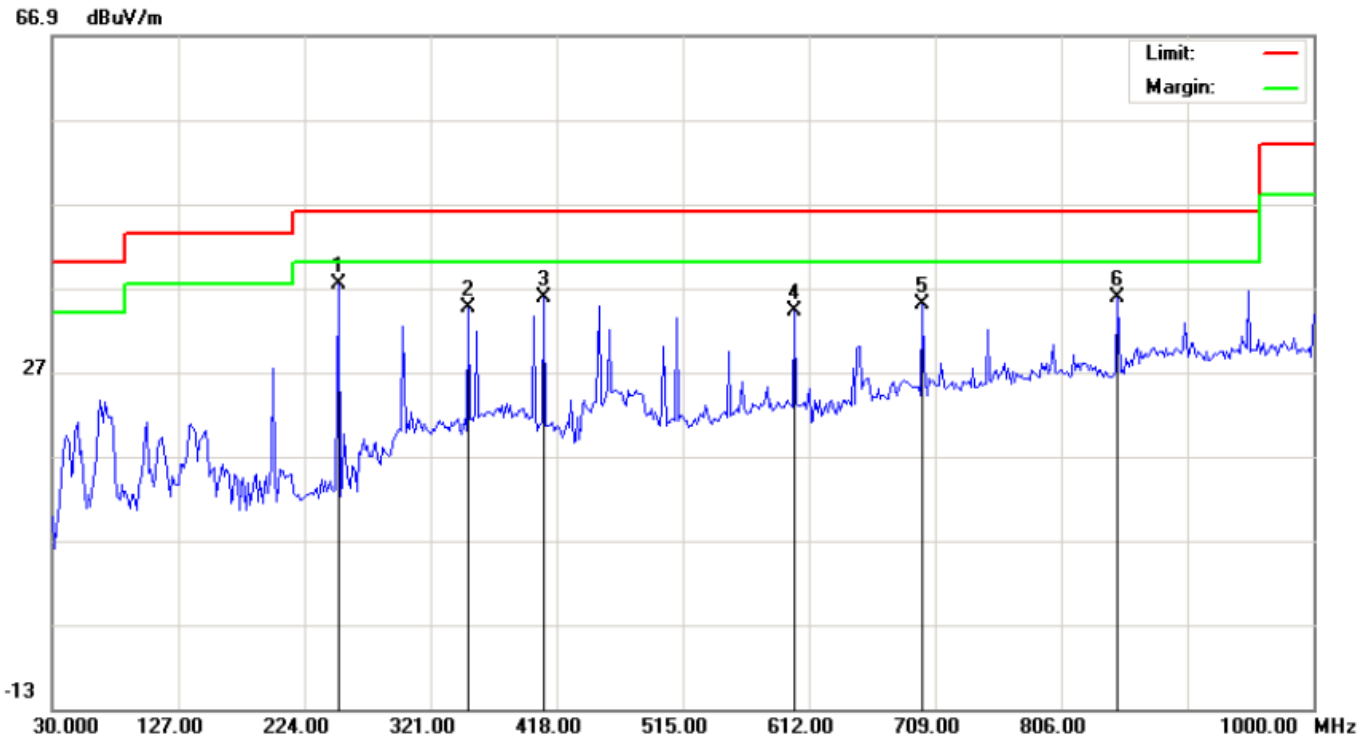
7.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION 30MHz- 1GHZ

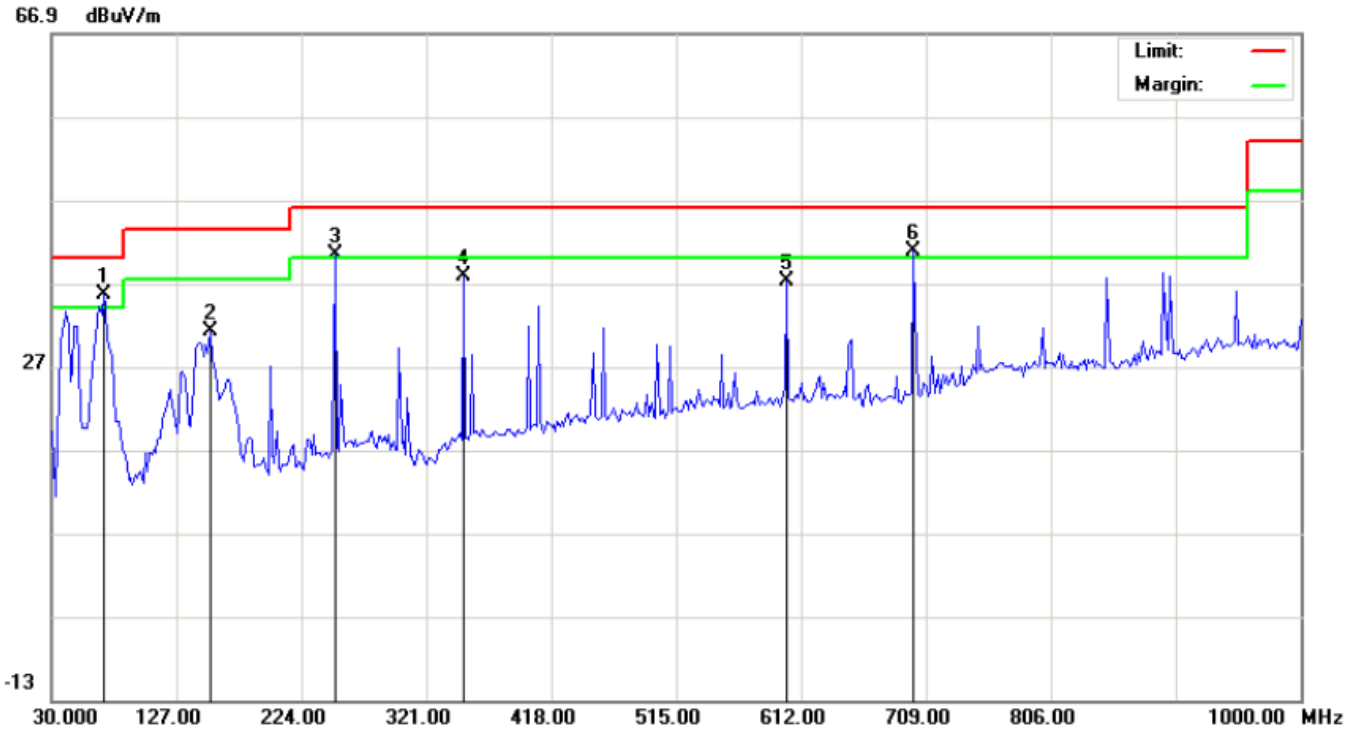
EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	249.8667	30.52	6.91	37.43	46.00	-8.57	peak			
2		350.1000	15.95	18.74	34.69	46.00	-11.31	peak			
3		408.3000	16.47	19.32	35.79	46.00	-10.21	peak			
4		600.6833	10.55	23.73	34.28	46.00	-11.72	peak			
5		699.3000	9.91	25.17	35.08	46.00	-10.92	peak			
6		849.6500	8.49	27.31	35.80	46.00	-10.20	peak			

RESULT: PASS

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	70.4167	31.36	4.16	35.52	40.00	-4.48	peak			
2		152.8667	15.94	15.28	31.22	43.50	-12.28	peak			
3	!	249.8667	26.43	13.89	40.32	46.00	-5.68	peak			
4		350.1000	19.14	18.74	37.88	46.00	-8.12	peak			
5		600.6833	14.37	22.75	37.12	46.00	-8.88	peak			
6	!	699.3000	15.67	25.17	40.84	46.00	-5.16	peak			

RESULT: PASS

Note:

Factor=Antenna Factor + Cable loss, Margin=Result-Limit.

The “Factor” value can be calculated automatically by software of measurement system.

The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

RADIATED EMISSION ABOVE 1GHZ FOR BR/EDR

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402.013	104.62	-9.37	95.25	114	-18.75	peak
2402.013	99.12	-9.37	89.75	94	-4.25	AVG
4804.026	47.25	3.74	50.99	74	-23.01	peak
4804.026	41.85	3.74	45.59	54	-8.41	AVG
7206.039	41.59	8.14	49.73	74	-24.27	peak
7206.039	36.09	8.14	44.23	54	-9.77	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402.013	103.55	-9.37	94.18	114	-19.82	peak
2402.013	98.05	-9.37	88.68	94	-5.32	AVG
4804.026	46.83	3.74	50.57	74	-23.43	peak
4804.026	41.23	3.74	44.97	54	-9.03	AVG
7206.039	41.22	8.14	49.36	74	-24.64	peak
7206.039	35.87	8.14	44.01	54	-9.99	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2441.016	104.42	-9.63	94.79	114	-19.21	peak
2441.016	98.85	-9.63	89.22	94	-4.78	AVG
4882.032	47.74	3.76	51.5	74	-22.5	peak
4882.032	42.12	3.76	45.88	54	-8.12	AVG
7323.048	41.61	8.17	49.78	74	-24.22	peak
7323.048	36.11	8.17	44.28	54	-9.72	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2441.016	103.35	-9.63	93.72	114	-20.28	peak
2441.016	97.69	-9.63	88.06	94	-5.94	AVG
4882.032	45.85	3.76	49.61	74	-24.39	peak
4882.032	40.26	3.76	44.02	54	-9.98	AVG
7323.048	41.35	8.17	49.52	74	-24.48	peak
7323.048	35.81	8.17	43.98	54	-10.02	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2480.021	105.42	-9.61	95.81	114	-18.19	peak
2480.021	99.86	-9.61	90.25	94	-3.75	AVG
4960.042	48.25	3.83	52.08	74	-21.92	peak
4960.042	42.94	3.83	46.77	54	-7.23	AVG
7440.063	41.75	8.21	49.96	74	-24.04	peak
7440.063	36.28	8.21	44.49	54	-9.51	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2480.021	104.33	-9.61	94.72	114	-19.28	peak
2480.021	98.75	-9.61	89.14	94	-4.86	AVG
4960.042	47.15	3.83	50.98	74	-23.02	peak
4960.042	41.69	3.83	45.52	54	-8.48	AVG
7440.063	41.25	8.21	49.46	74	-24.54	peak
7440.063	35.84	8.21	44.05	54	-9.95	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 4	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402.013	102.54	-9.37	93.17	114	-20.83	peak
2402.013	97.33	-9.37	87.96	94	-6.04	AVG
4804.026	44.25	3.74	47.99	74	-26.01	peak
4804.026	39.56	3.74	43.3	54	-10.7	AVG
7206.039	40.83	8.14	48.97	74	-25.03	peak
7206.039	35.24	8.14	43.38	54	-10.62	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 4	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402.013	101.35	-9.37	91.98	114	-22.02	peak
2402.013	96.52	-9.37	87.15	94	-6.85	AVG
4804.026	43.15	3.74	46.89	74	-27.11	peak
4804.026	38.41	3.74	42.15	54	-11.85	AVG
7206.039	40.52	8.14	48.66	74	-25.34	peak
7206.039	34.87	8.14	43.01	54	-10.99	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 5	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2441.016	102.25	-9.63	92.62	114	-21.38	peak
2441.016	97.14	-9.63	87.51	94	-6.49	AVG
4882.032	44.74	3.76	48.5	74	-25.5	peak
4882.032	39.95	3.76	43.71	54	-10.29	AVG
7323.048	40.15	8.17	48.32	74	-25.68	peak
7323.048	34.64	8.17	42.81	54	-11.19	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 5	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2441.016	101.33	-9.63	91.7	114	-22.3	peak
2441.016	96.24	-9.63	86.61	94	-7.39	AVG
4882.032	43.52	3.76	47.28	74	-26.72	peak
4882.032	38.69	3.76	42.45	54	-11.55	AVG
7323.048	40.05	8.17	48.22	74	-25.78	peak
7323.048	34.51	8.17	42.68	54	-11.32	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 6	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2480.021	102.84	-9.61	93.23	114	-20.77	peak
2480.021	97.68	-9.61	88.07	94	-5.93	AVG
4960.042	44.52	3.83	48.35	74	-25.65	peak
4960.042	39.47	3.83	43.3	54	-10.7	AVG
7440.063	40.36	8.21	48.57	74	-25.43	peak
7440.063	34.81	8.21	43.02	54	-10.98	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 6	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2480.021	102.04	-9.61	92.43	114	-21.57	peak
2480.021	96.87	-9.61	87.26	94	-6.74	AVG
4960.042	43.52	3.83	47.35	74	-26.65	peak
4960.042	38.42	3.83	42.25	54	-11.75	AVG
7440.063	40.24	8.21	48.45	74	-25.55	peak
7440.063	34.76	8.21	42.97	54	-11.03	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 7	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2402.013	102.75	-9.37	93.38	114	-20.62	
2402.013	97.64	-9.37	88.27	94	-5.73	AVG
4804.026	44.68	3.74	48.42	74	-25.58	peak
4804.026	39.53	3.74	43.27	54	-10.73	AVG
7206.039	40.75	8.14	48.89	74	-25.11	peak
7206.039	34.42	8.14	42.56	54	-11.44	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 7	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402.013	101.68	-9.37	92.31	114	-21.69	peak
2402.013	96.58	-9.37	87.21	94	-6.79	AVG
4804.026	43.71	3.74	47.45	74	-26.55	peak
4804.026	38.64	3.74	42.38	54	-11.62	AVG
7206.039	39.52	8.14	47.66	74	-26.34	peak
7206.039	33.69	8.14	41.83	54	-12.17	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 8	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2441.016	102.42	-9.63	92.79	114	-21.21	peak
2441.016	97.49	-9.63	87.86	94	-6.14	AVG
4882.032	43.58	3.76	47.34	74	-26.66	peak
4882.032	38.16	3.76	41.92	54	-12.08	AVG
7323.048	40.27	8.17	48.44	74	-25.56	peak
7323.048	34.19	8.17	42.36	54	-11.64	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 8	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2441.016	101.38	-9.63	91.75	114	-22.25	peak
2441.016	96.39	-9.63	86.76	94	-7.24	AVG
4882.032	42.79	3.76	46.55	74	-27.45	peak
4882.032	39.15	3.76	42.91	54	-11.09	AVG
7323.048	39.85	8.17	48.02	74	-25.98	peak
7323.048	34.62	8.17	42.79	54	-11.21	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 9	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2480.021	102.75	-9.61	93.14	114	-20.86	peak
2480.021	97.69	-9.61	88.08	94	-5.92	AVG
4960.042	43.74	3.83	47.57	74	-26.43	peak
4960.042	38.36	3.83	42.19	54	-11.81	AVG
7440.063	40.69	8.21	48.9	74	-25.1	peak
7440.063	34.51	8.21	42.72	54	-11.28	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 9	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2480.021	101.58	-9.61	91.97	114	-22.03	peak
2480.021	96.42	-9.61	86.81	94	-7.19	AVG
4960.042	42.71	3.83	46.54	74	-27.46	peak
4960.042	37.29	3.83	41.12	54	-12.88	AVG
7440.063	39.52	8.21	47.73	74	-26.27	peak
7440.063	33.86	8.21	42.07	54	-11.93	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note: Other emission from 8G to 25 GHz are considered as ambient noise. No recording in the test report.
Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.
The “Factor” value can be calculated automatically by software of measurement system.

RADIATED EMISSION ABOVE 1GHZ FOR BLE

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402.013	101.12	-9.37	91.75	114	-22.25	peak
2402.013	96.25	-9.37	86.88	94	-7.12	AVG
4804.026	41.78	3.74	45.52	74	-28.48	peak
4804.026	37.68	3.74	41.42	54	-12.58	AVG
7206.039	40.85	8.14	48.99	74	-25.01	peak
7206.039	36.24	8.14	44.38	54	-9.62	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2402.013	100.09	-9.37	90.72	114	-23.28	peak
2402.013	95.33	-9.37	85.96	94	-8.04	AVG
4804.026	41.52	3.74	45.26	74	-28.74	peak
4804.026	37.62	3.74	41.36	54	-12.64	AVG
7206.039	40.52	8.14	48.66	74	-25.34	peak
7206.039	35.19	8.14	43.33	54	-10.67	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 2	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2440.016	101.35	-9.63	91.72	114	-22.28	peak
2440.016	96.74	-9.63	87.11	94	-6.89	AVG
4880.032	41.52	3.76	45.28	74	-28.72	peak
4880.032	37.41	3.76	41.17	54	-12.83	AVG
7320.048	41.05	8.17	49.22	74	-24.78	peak
7320.048	36.84	8.17	45.01	54	-8.99	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 2	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2440.016	99.52	-9.63	89.89	114	-24.11	peak
2440.016	93.95	-9.63	84.32	94	-9.68	AVG
4880.032	41.23	3.76	44.99	74	-29.01	peak
4880.032	37.08	3.76	40.84	54	-13.16	AVG
7320.048	40.85	8.17	49.02	74	-24.98	peak
7320.048	36.19	8.17	44.36	54	-9.64	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 3	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2480.021	102.09	-9.61	92.48	114	-21.52	peak
2480.021	96.85	-9.61	87.24	94	-6.76	AVG
4960.042	42.54	3.83	46.37	74	-27.63	peak
4960.042	39.15	3.83	42.98	54	-11.02	AVG
7440.063	41.03	8.21	49.24	74	-24.76	peak
7440.063	37.84	8.21	46.05	54	-7.95	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 3	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2480.021	100.89	-9.61	91.28	114	-22.72	peak
2480.021	95.63	-9.61	86.02	94	-7.98	AVG
4960.042	41.69	3.83	45.52	74	-28.48	peak
4960.042	38.24	3.83	42.07	54	-11.93	AVG
7440.063	40.85	8.21	49.06	74	-24.94	peak
7440.063	37.59	8.21	45.8	54	-8.2	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note: Other emission from 8G to 25 GHz are considered as ambient noise. No recording in the test report.
Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.
The “Factor” value can be calculated automatically by software of measurement system.

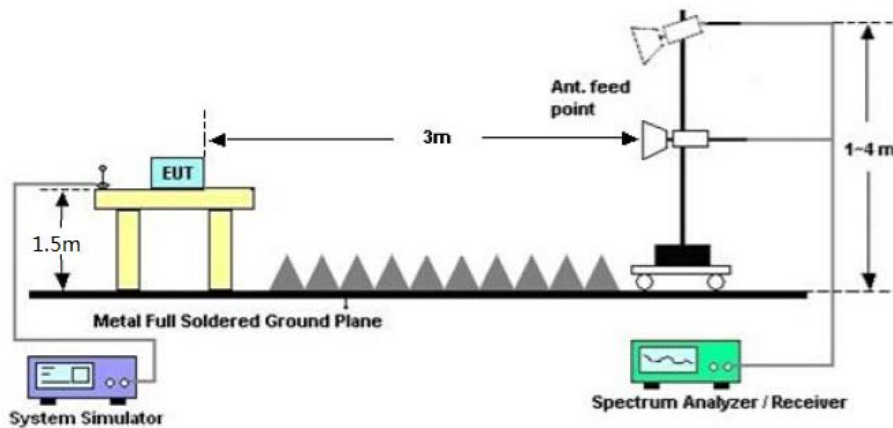
8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO
3. Other procedures refer to clause 7.2.

8.2 TEST SETUP

RADIATED EMISSION TEST SETUP



8.3 RADIATED TEST RESULT

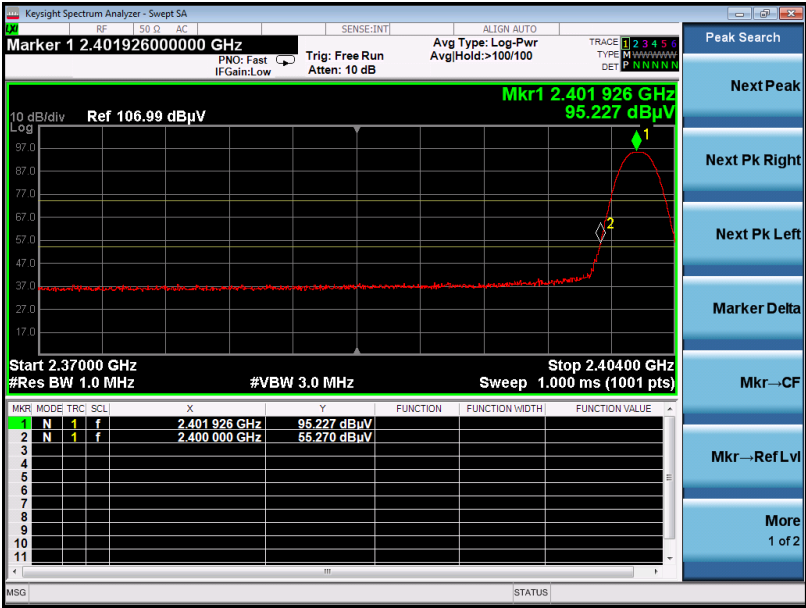
Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

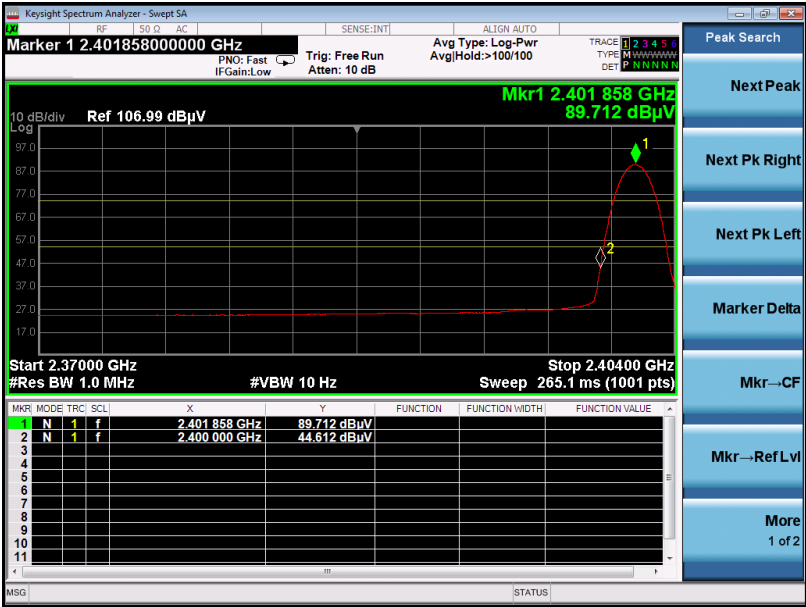
FOR BR/EDR:

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Horizontal

PK Value

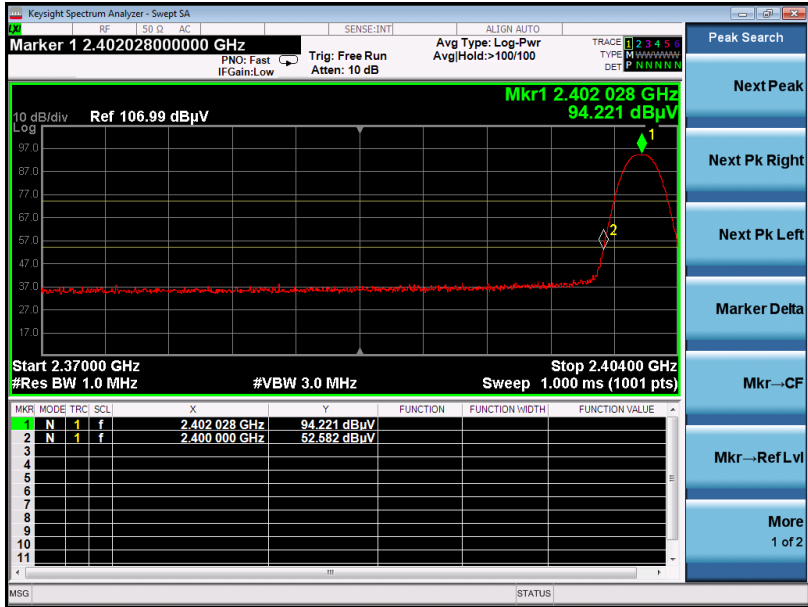


AV Value

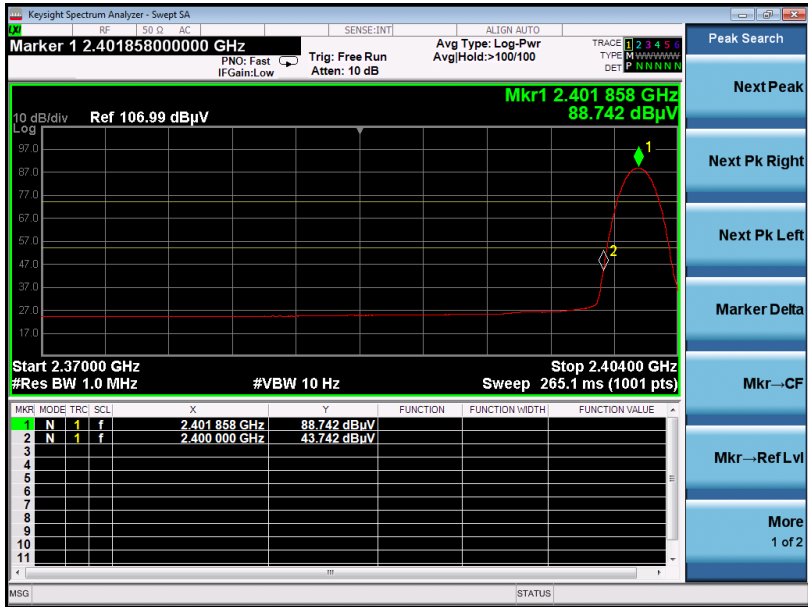


EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Vertical

PK Value



AV Value

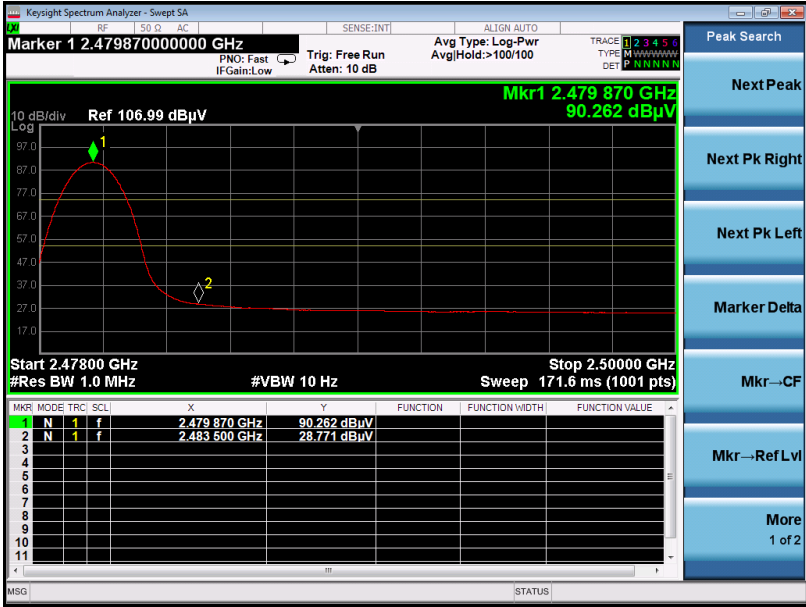


EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 3	Polarization :	Horizontal

PK Value

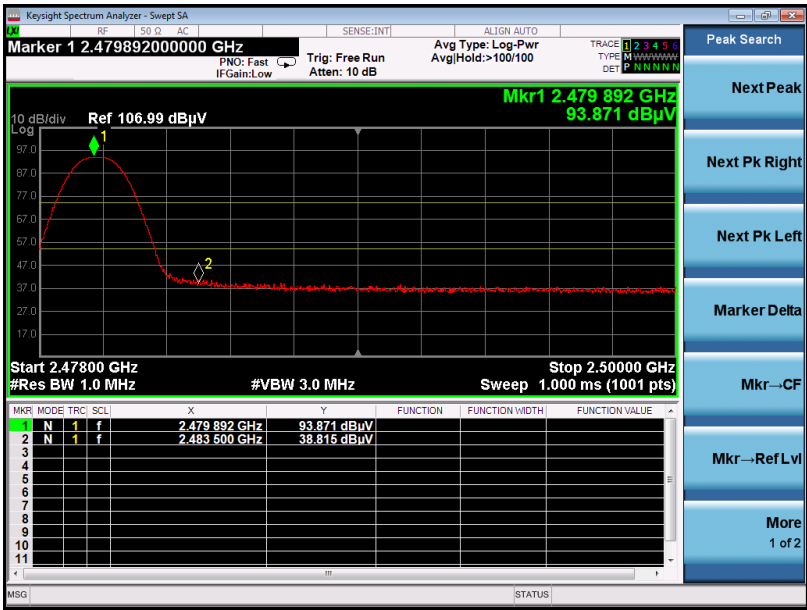


AV Value

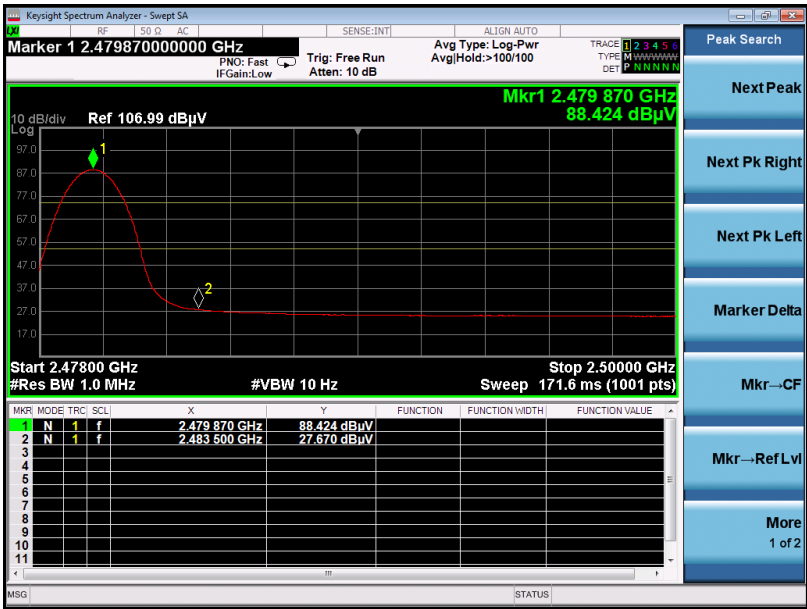


EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 3	Polarization :	Vertical

PK Value



AV Value

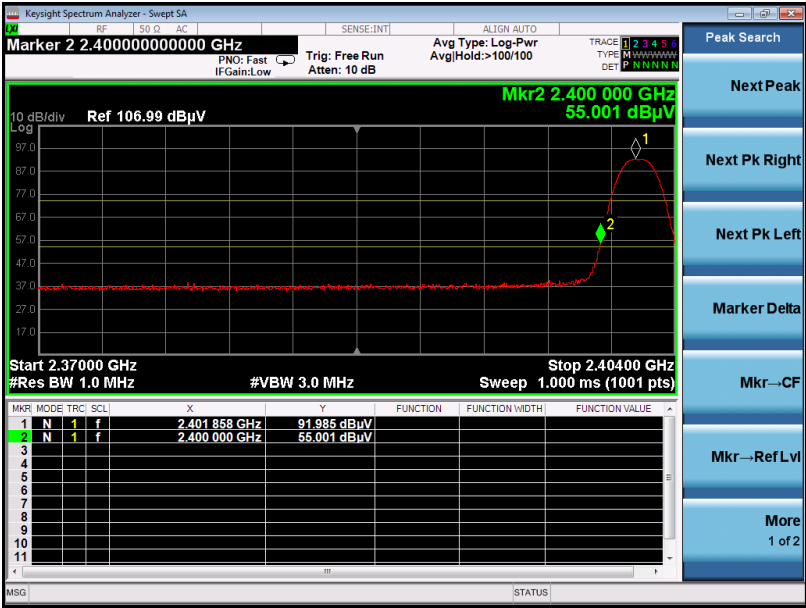


Note: The GFSK modulation was the worst case and only the data of worst recorded in this report.

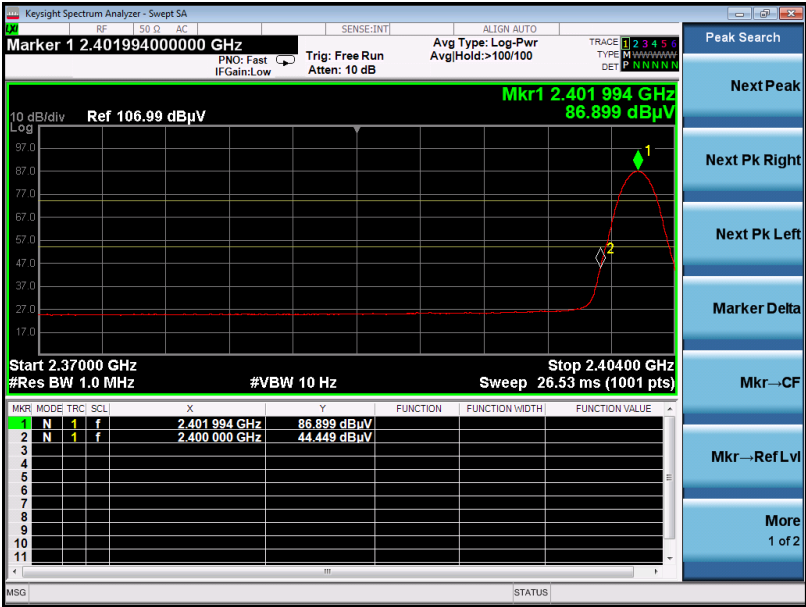
FOR BLE

EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humiditytity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Horizontal

PK Value

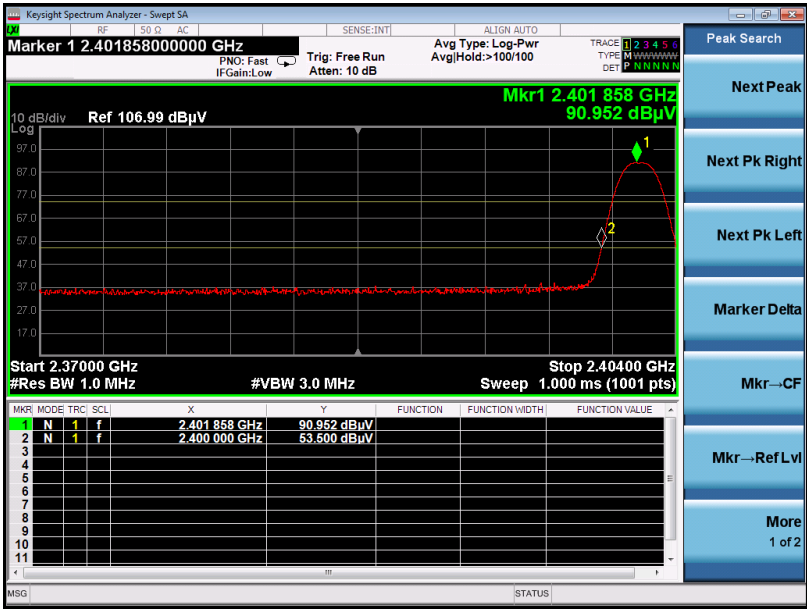


AV Value

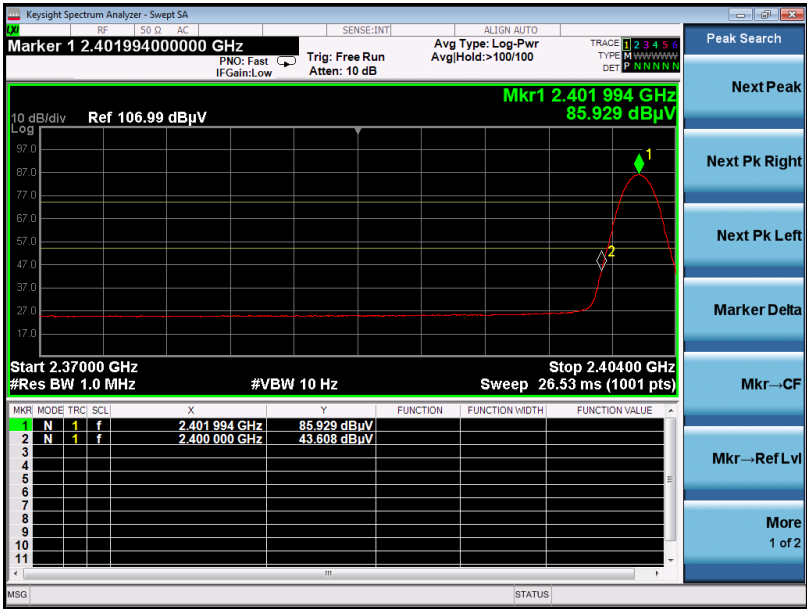


EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 1	Polarization :	Vertical

PK Value

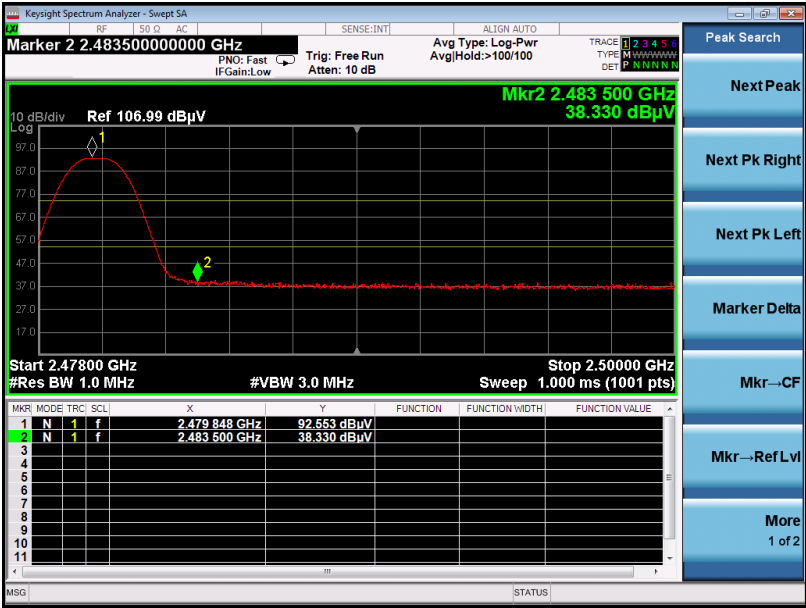


AV Value

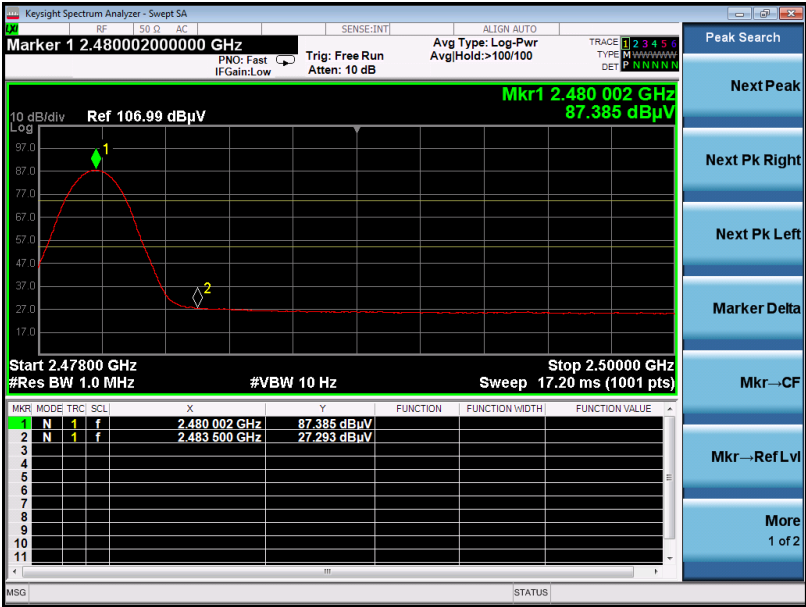


EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 3	Polarization :	Horizontal

PK Value

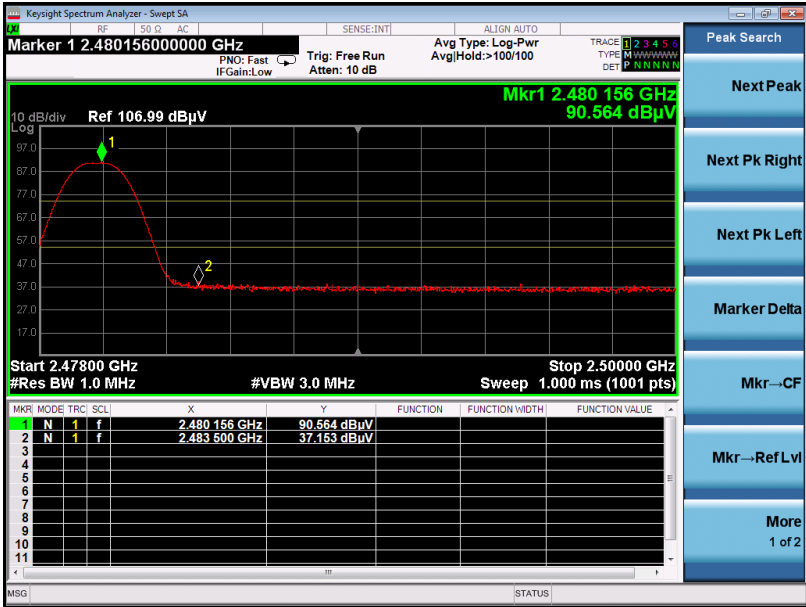


AV Value

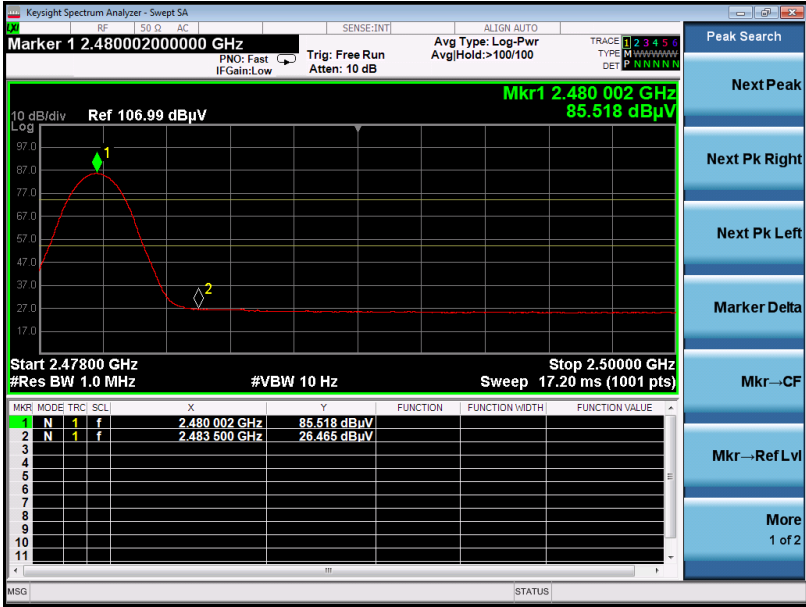


EUT :	TITAN X2	Model Name. :	TITAN X2
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC3.7V
Test Mode :	Mode 3	Polarization :	Vertical

PK Value



AV Value

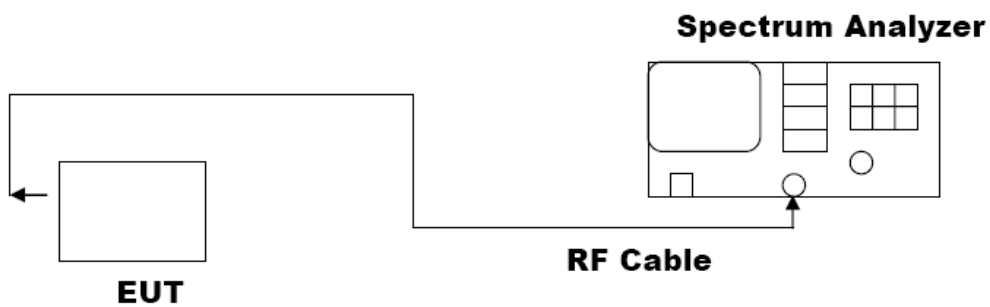


9. 20DB BANDWIDTH

9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq 3 \times$ RBW.
4. Set SPA Trace 1 Max hold, then View.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

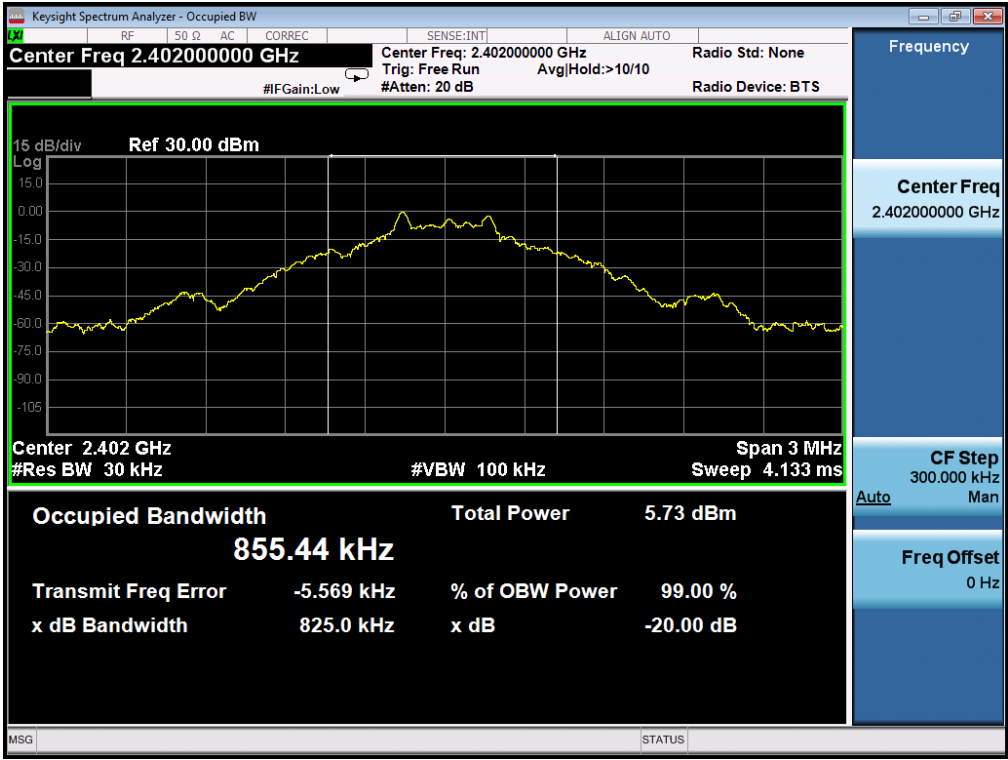


9.3. MEASUREMENT RESULTS

TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK for BR/EDR

Test Data (MHz)		Criteria
Low Channel	0.8250	PASS
Middle Channel	0.8220	PASS
High Channel	0.8281	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



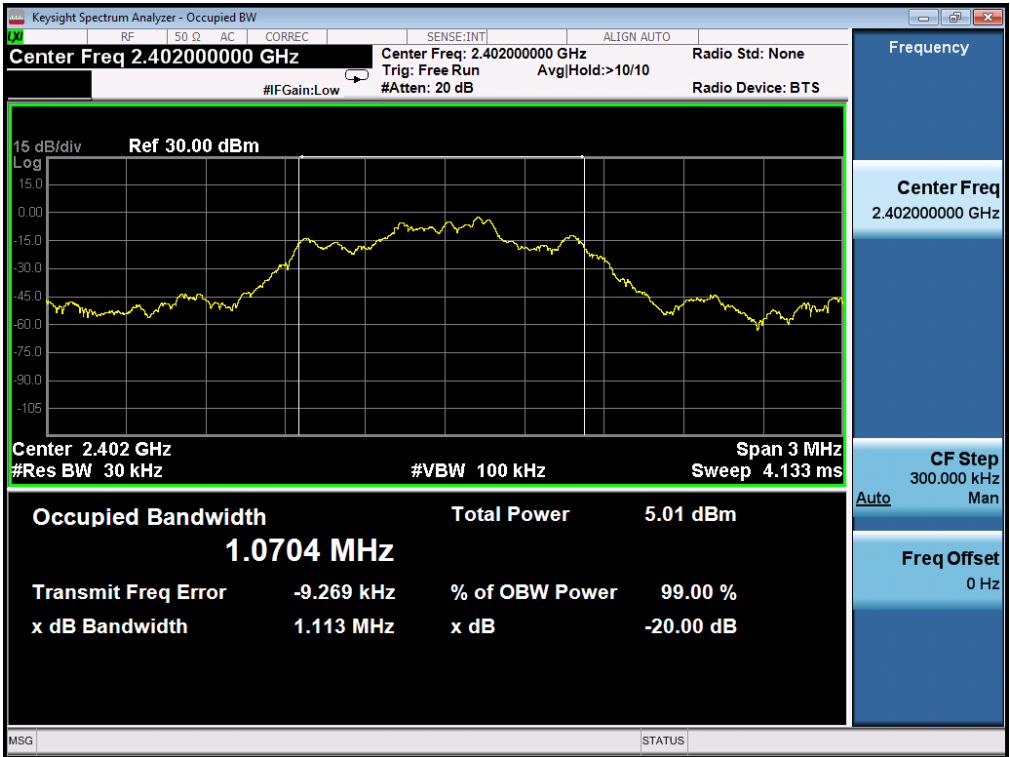
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



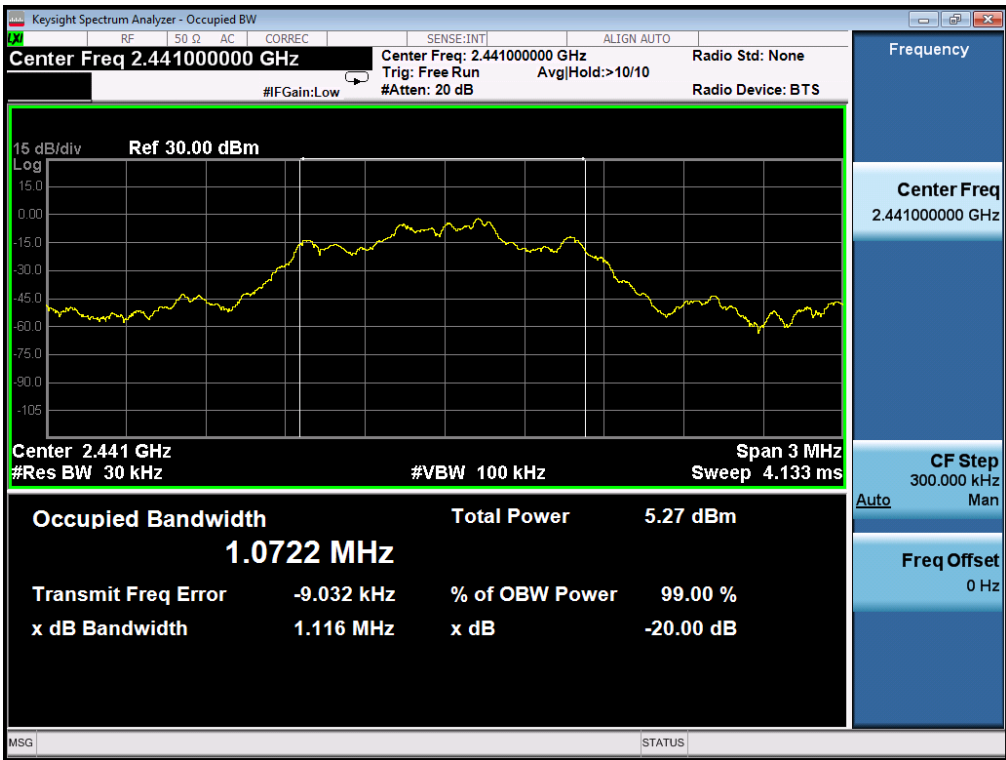
TEST ITEM	20DB BANDWIDTH
TEST MODULATION	π /4-DQPSK for BR/EDR

Test Data (MHz)		Criteria
Low Channel	1.113	PASS
Middle Channel	1.116	PASS
High Channel	1.118	PASS

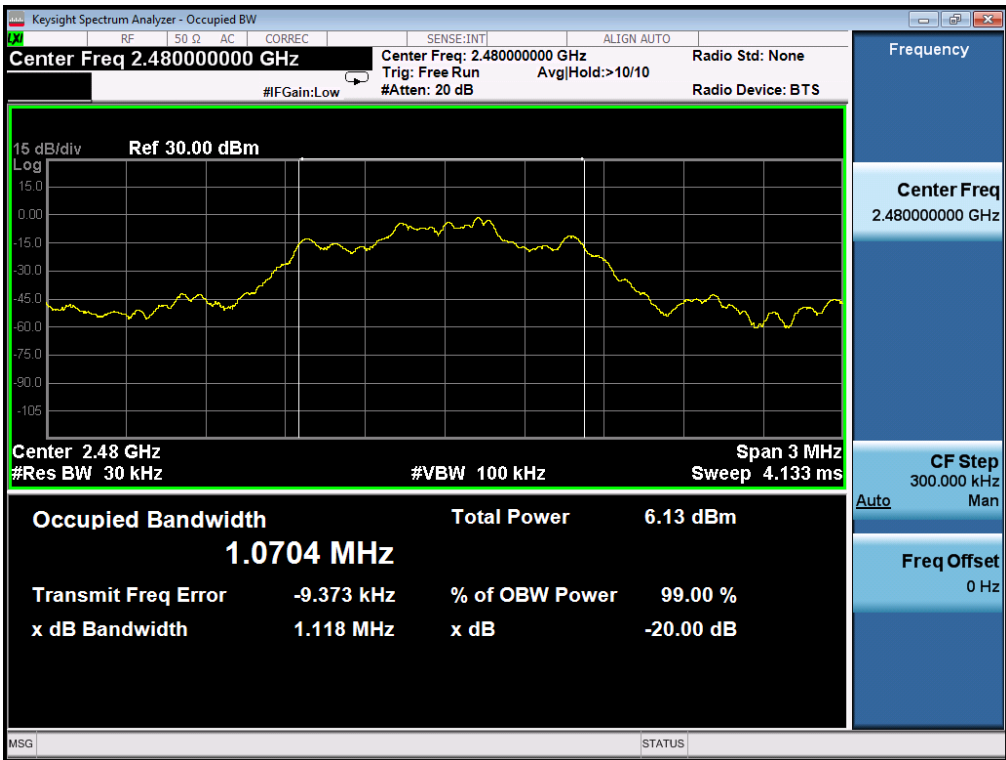
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



TEST ITEM	20DB BANDWIDTH
TEST MODULATION	8DPSK for BR/EDR

Test Data (MHz)		Criteria
Low Channel	1.110	PASS
Middle Channel	1.111	PASS
High Channel	1.110	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



TEST ITEM	20DB BANDWIDTH
TEST MODULATION	GFSK for BLE

Test Data (MHz)		Criteria
Low Channel	1.117	PASS
Middle Channel	1.118	PASS
High Channel	1.120	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



10. FCC LINE CONDUCTED EMISSION TEST

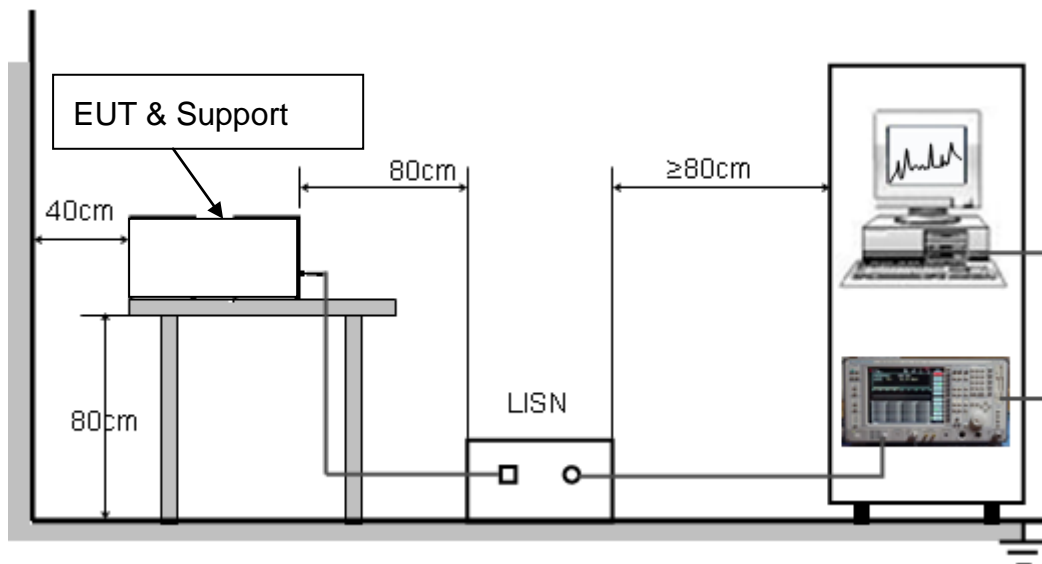
10.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

10.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



10.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN..
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

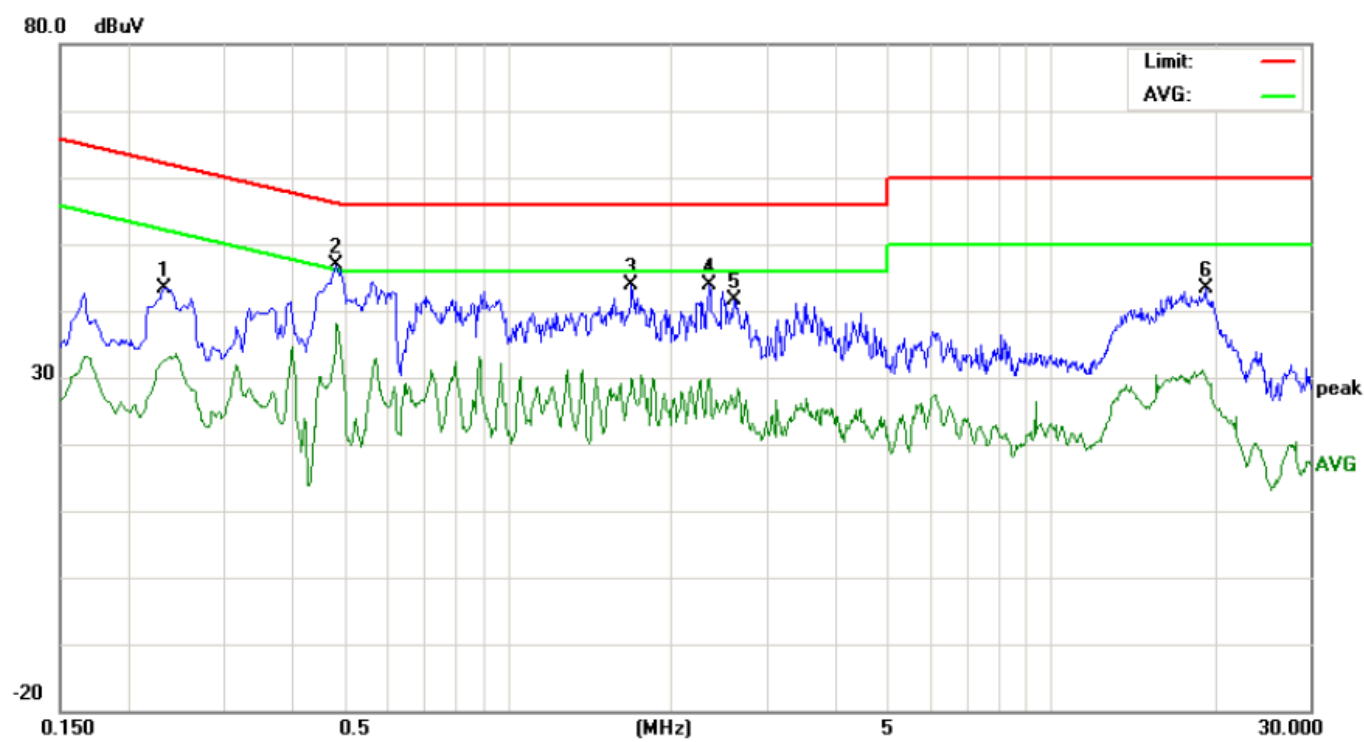
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

10.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

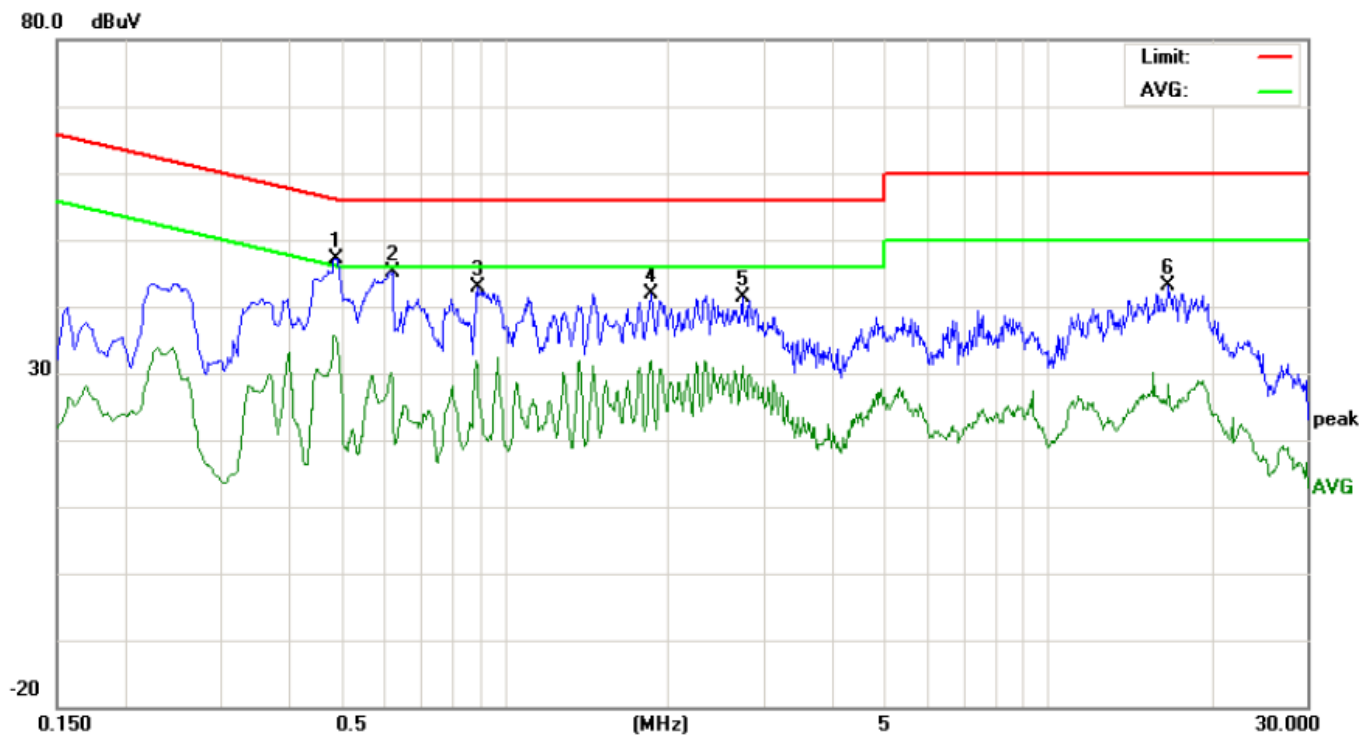
10.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor (dB)	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2340	33.23		22.28	10.25	43.48		32.53	62.30	52.30	-18.82	-19.77	P	
2	0.4860	36.50		27.71	10.39	46.89		38.10	56.24	46.24	-9.35	-8.14	P	
3	1.6940	33.54		19.62	10.32	43.86		29.94	56.00	46.00	-12.14	-16.06	P	
4	2.3540	33.48		19.60	10.37	43.85		29.97	56.00	46.00	-12.15	-16.03	P	
5	2.6099	31.20		14.84	10.46	41.66		25.30	56.00	46.00	-14.34	-20.70	P	
6	19.2299	33.14		19.97	10.12	43.26		30.09	60.00	50.00	-16.74	-19.91	P	

LINE CONDUCTED EMISSION TEST-N



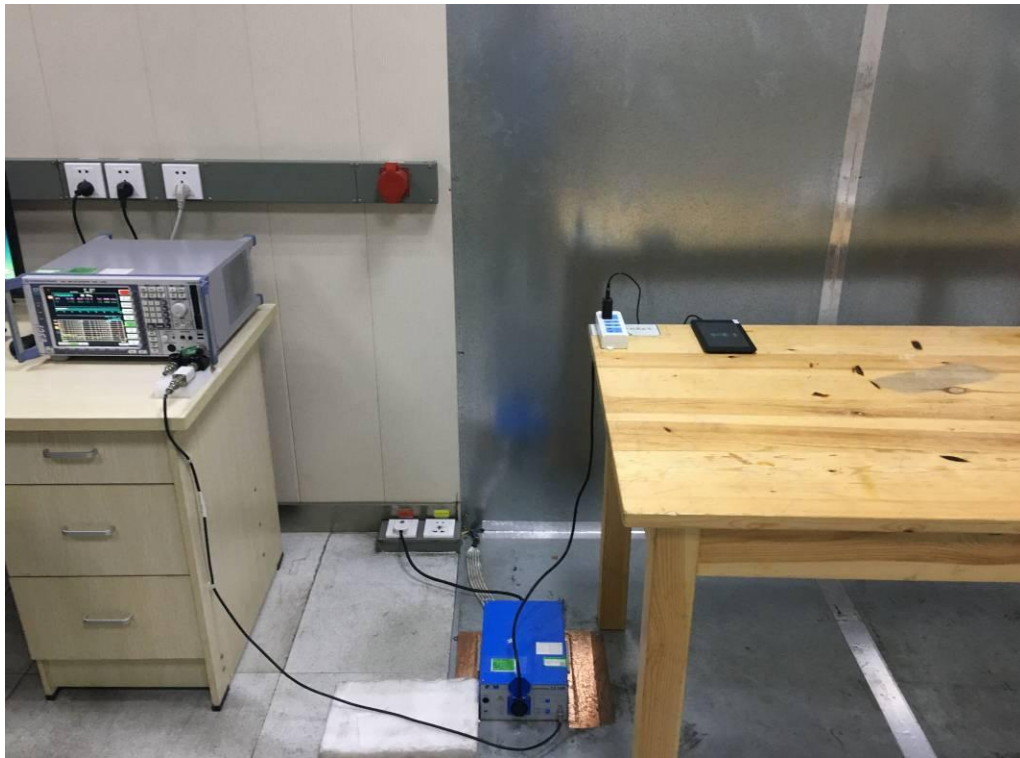
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.4900	36.79		24.86	10.39	47.18		35.25	56.17	46.17	-8.99	-10.92	P	
2	0.6220	34.91		18.69	10.32	45.23		29.01	56.00	46.00	-10.77	-16.99	P	
3	0.8900	32.57		20.65	10.40	42.97		31.05	56.00	46.00	-13.03	-14.95	P	
4	1.8620	31.58		21.50	10.26	41.84		31.76	56.00	46.00	-14.16	-14.24	P	
5	2.7460	31.00		20.56	10.49	41.49		31.05	56.00	46.00	-14.51	-14.95	P	
6	16.6699	33.12		18.31	10.12	43.24		28.43	60.00	50.00	-16.76	-21.57	P	

RESULT: PASS

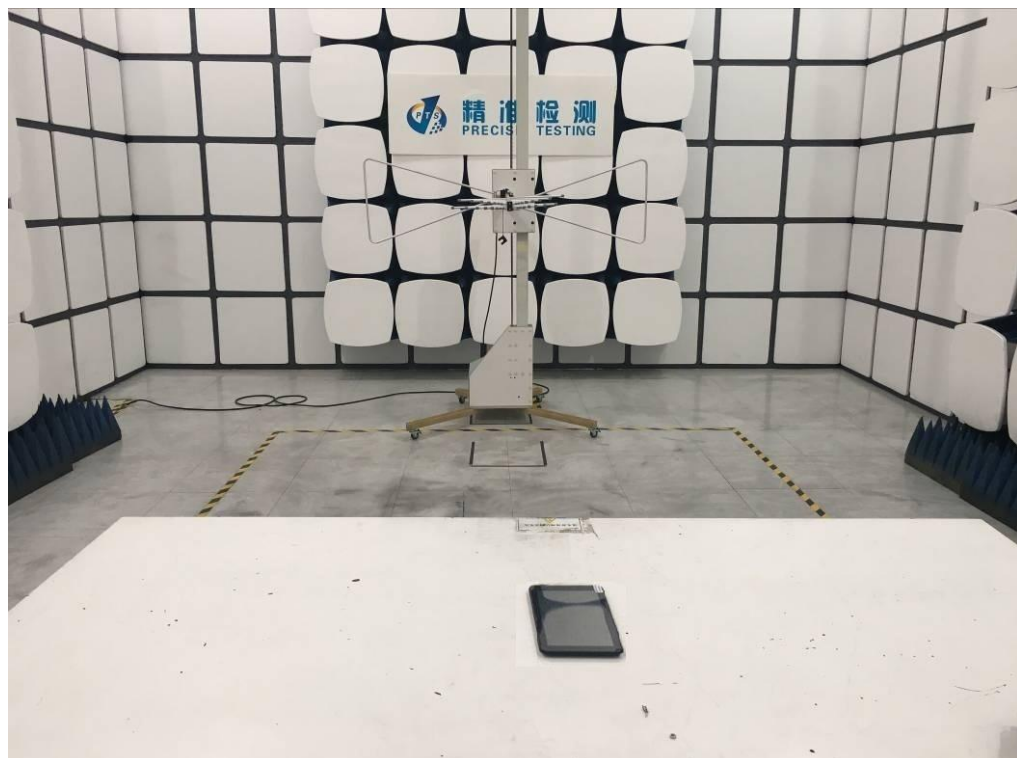
Note: The mode 1 is the worst case, and only the data of the worst case recorded in this test report.

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

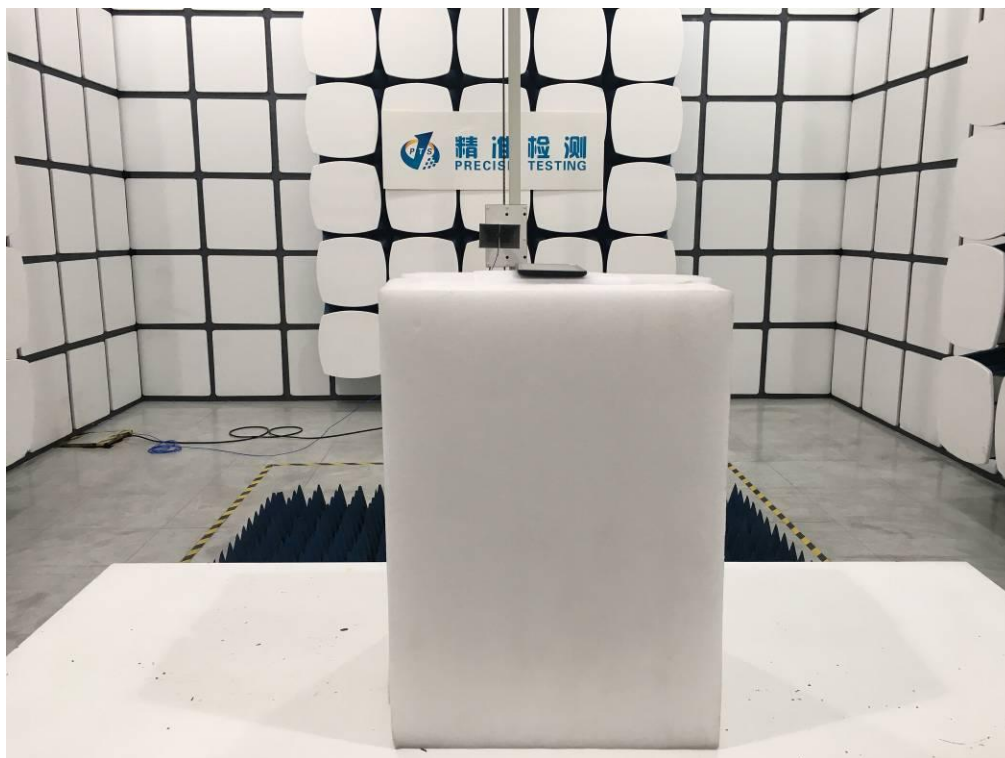
FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



BACK VIEW OF EUT



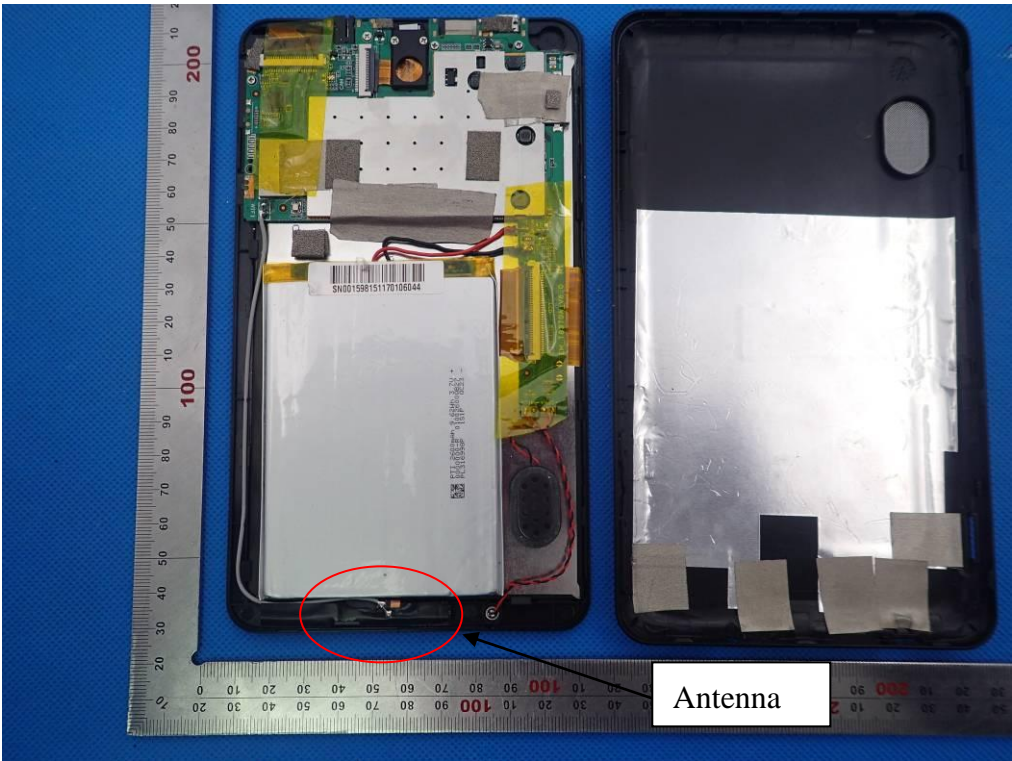
LEFT VIEW OF EUT



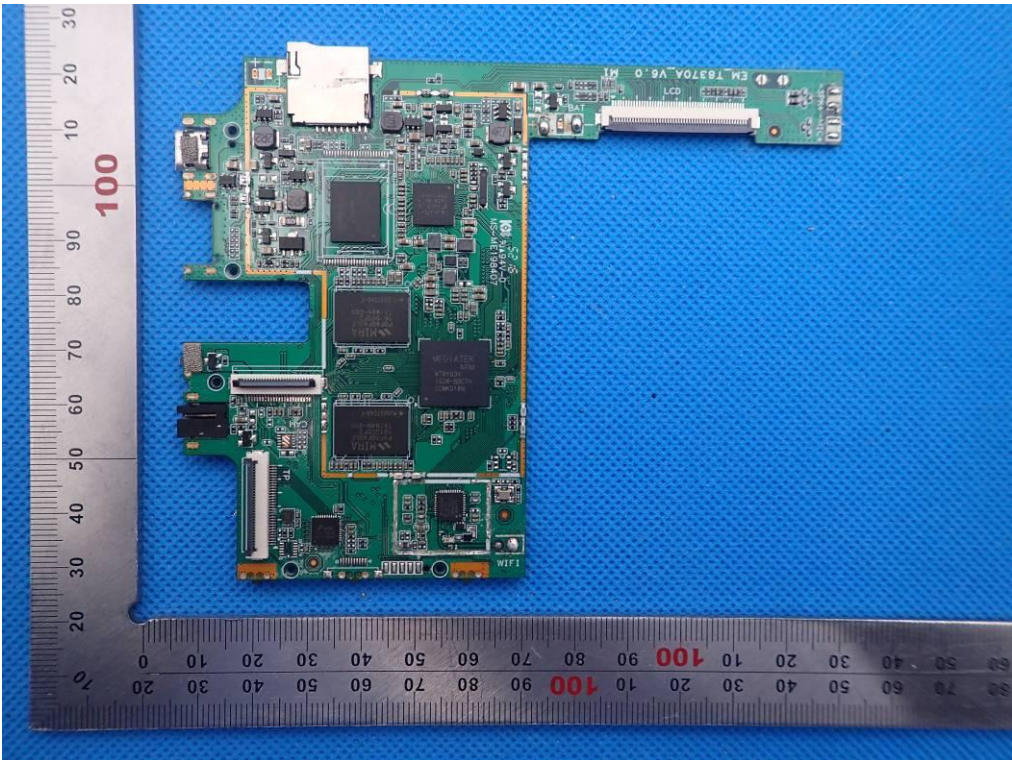
RIGHT VIEW OF EUT



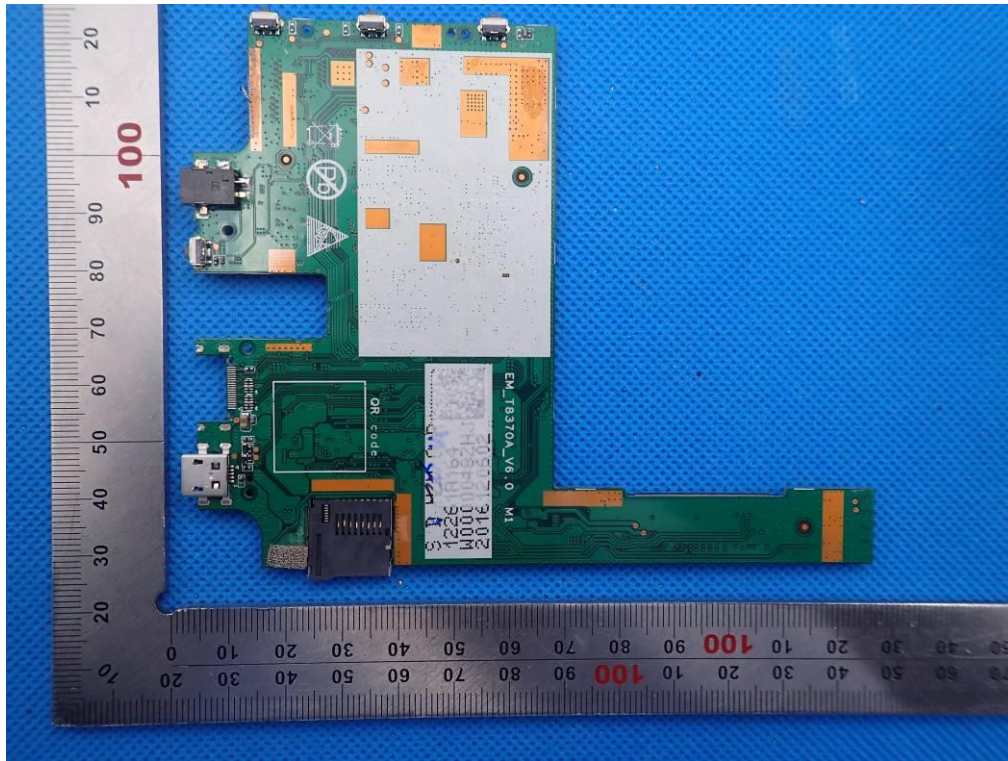
OPEN VIEW OF EUT



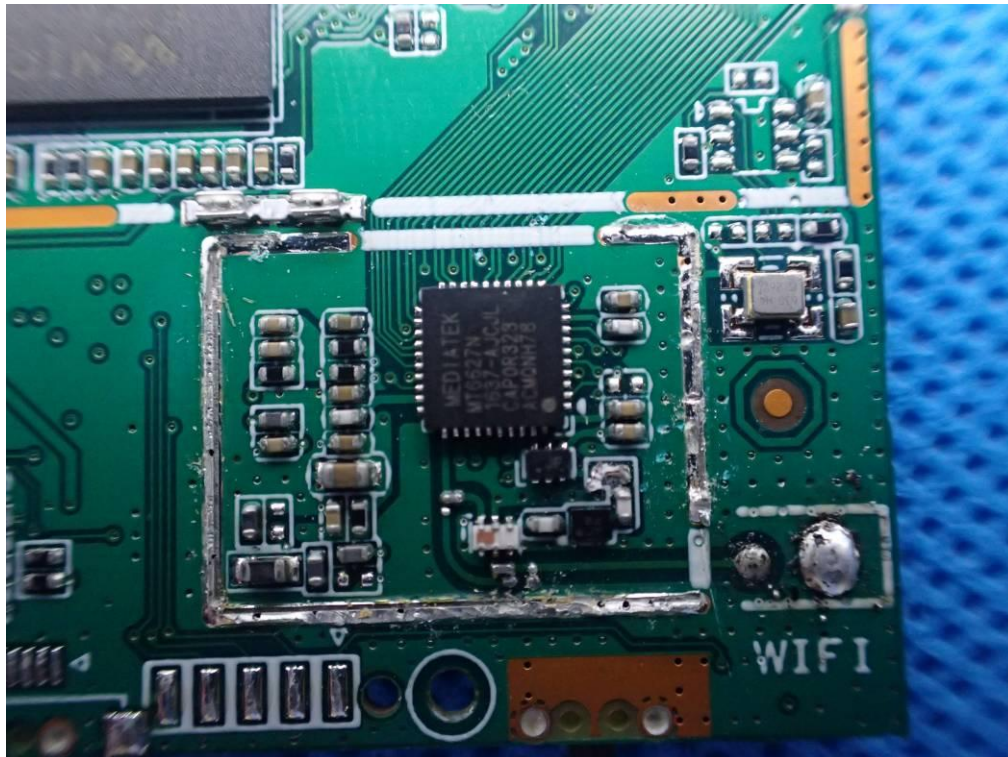
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



---END OF REPORT---