

FCC Test Report

Report No.: AGC14499230608FE03

FCC ID	:	2APPZ-AP6256
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	IP Phone
BRAND NAME	:	Fanvil
MODEL NAME	:	X305
APPLICANT	:	Fanvil Technology Co., Ltd.
DATE OF ISSUE	:	Jul. 17, 2023
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0







REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 17, 2023	Valid	Initial Release



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1. VERIFICATION OF CONFORMITY

Applicant	Fanvil Technology Co., Ltd.	
Address	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China	
Manufacturer	Fanvil Technology Co., Ltd.	
Address	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China	
Factory	Fanvil Technology Co., Ltd.	
Address	10/F Block A, Dualshine Global Science Innovation , Honglang North 2nd Road, Bao'an District, Shenzhen, China	
Product Designation	IP Phone	
Brand Name	Fanvil	
Test Model	X305	
Date of receipt of test item	Jun. 30, 2023	
Date of Test	Jun. 30, 2023~Jul. 17, 2023	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) 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 PART 15.247.

Prepared By

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Jul. 17, 2023

Reviewed By

Calvin Liu (Reviewer)

Jul. 17, 2023

Approved By

Max Zhang

Authorized Officer

Jul. 17, 2023



2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "IP Phone". It is designed by way of utilizing the GFSK, Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480 GHz
RF Output Power	5.462dBm (Max)
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE ⊡GFSK 1Mbps ⊡GFSK 2Mbps
Number of channels	79
Hardware Version	V2.0
Software Version	2.12.0.7.3
Antenna Designation	PIFA Antenna (Comply with requirements of the FCC part 15.203)
Antenna Gain	4.2dBi
Power Supply	DC 5V by adapter or DC 48V by PoE

2.2. TABLE OF CARRIER FREQUENCYS

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



2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz, in every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally, the type of connection (e.g. single of multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a hopping sequence in data mode: 40, 21, 44, 23, 04, 15, 66, 56, 19, 78, 07, 28, 69, 55, 36, 45, 05, 13, 43, 74, 57, 35, 67, 76, 02, 34, 54, 63, 42, 11, 30, 06, 64, 25, 75, 48, 17, 33, 58, 01, 29, 14, 51, 72, 03, 31, 50, 61, 77, 18, 10, 47, 12, 68, 08, 49, 20, 00, 73, 09, 16, 60, 71, 41, 24, 53, 38, 26, 46, 37, 65, 32, 70, 52, 27, 59, 22, 62, 39

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

1. LAP/UAP of the master of the connection.

2. Internal master clock.

The LAP (lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24MSB's of the 48BD_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For behavior action with other units only offset is used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bits counter. For the deriving of the hopping sequence the entire. LAP (24 bits),4LSB's(4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For

Transmitting the wanted data the complete hopping sequence was not used. The connection ended.



The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer (and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always differ from the first one.

2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2APPZ-AP6256** filing to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.10. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.



3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2.7 dB$
Uncertainty of Occupied Channel Bandwidth	U _c = ±2 %



4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK by DC 5V adapter
2	Middle channel GFSK by DC 5V adapter
3	High channel GFSK by DC 5V adapter
4	Low channel $\pi/4$ -DQPSK by DC 5V adapter
5	Middle channel $\pi/4$ -DQPSK by DC 5V adapter
6	High channel π /4-DQPSK by DC 5V adapter
7	Low channel 8DPSK by DC 5V adapter
8	Middle channel 8DPSK by DC 5V adapter
9	High channel 8DPSK by DC 5V adapter
10	Hopping mode GFSK by DC 5V adapter
11	Hopping mode $\pi/4$ -DQPSK by DC 5V adapter
12	Hopping mode 8DPSK by DC 5V adapter
13	Low channel GFSK by DC 48V PoE
14	Middle channel GFSK by DC 48V PoE
15	High channel GFSK by DC 48V PoE
16	Low channel π/4-DQPSK by DC 48V PoE
17	Middle channel π/4-DQPSK by DC 48V PoE
18	High channel π/4-DQPSK by DC 48V PoE
19	Low channel 8DPSK by DC 48V PoE
20	Middle channel 8DPSK by DC 48V PoE
21	High channel 8DPSK by DC 48V PoE
22	Hopping mode GFSK by DC 48V PoE
23	Hopping mode π/4-DQPSK by DC 48V PoE
24	Hopping mode 8DPSK by DC 48V PoE



Note:

- 1. 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.
- 3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

Software Setting

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

EUT		AE
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5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	IP Phone	X305	FCC ID: 2APPZ-AP6256	EUT
2	Adapter	GQ12-050200-AU	Input: AC 100-240V 50/60Hz, 0.4A Output: DC 5.0V 2A	AE
3	Ethernet Cable	N/A	N/A	AE
4	Handset Wire	N/A	1.5m Unshielded	AE
5	Handset	N/A	N/A	AE
6	Wall Stand	N/A	N/A	AE
7	Stand	N/A	N/A	AE
8	PoE	ADS-120HK-48-1 520120E	DC 12V 1A (IEEE 802.3af)	AE



5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	Compliant



6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China		
Designation Number	CN1259		
FCC Test Firm Registration Number	975832		
A2LA Cert. No.	5054.02		
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA		

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 03, 2023	Jun. 02, 2024
LISN	R&S	ESH2-Z5	100086	Jun. 03, 2023	Jun. 02, 2024
Test software	R&S	ES-K1 (Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Feb. 18, 2023	Feb. 17, 2024
EXA Signal Analyzer	Aglient	N9010A	MY534705 04	Jun. 01, 2023	May 31, 2024
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	N/A	N/A
Attenuator	ZHINAN	E-002	N/A	Sep. 01, 2022	Aug. 31, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Oct. 31, 2021	Oct. 30, 2023
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Mar. 03, 2023	Mar. 02, 2024
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	N/A	N/A
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 05, 2023	Jan. 04, 2025
Test software	FARA	EZ-EMC (Ver.AGC-CON03A1)	N/A	N/A	N/A



7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

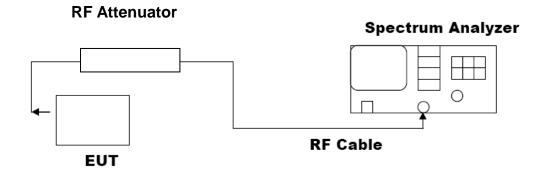
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK POWER TEST SETUP





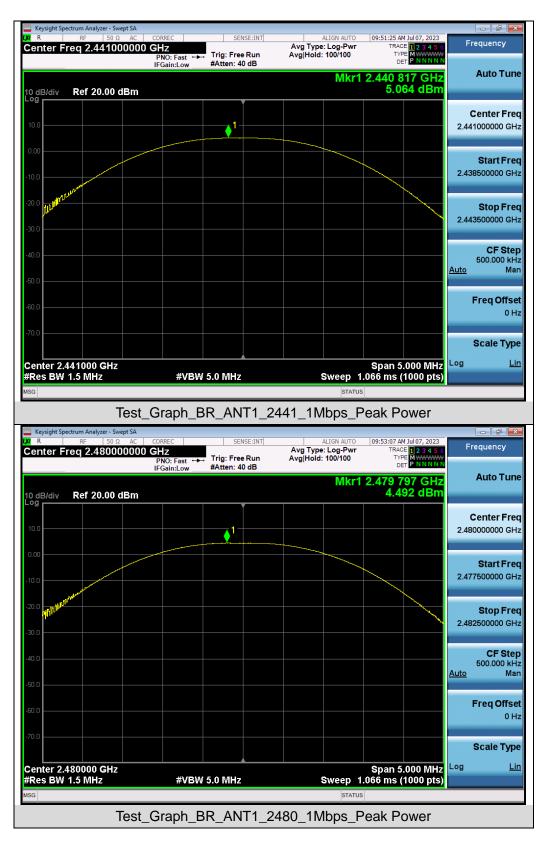
7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power					
Test Mode	Test Channel (MHz)	Peak Power (dBm)	Limits (dBm)	Pass or Fail	
	2402	5.462	≤21	Pass	
GFSK	2441	5.064	≤21	Pass	
	2480	4.492	≤21	Pass	
	2402	4.353	≤21	Pass	
π /4-DQPSK	2441	3.996	≤21	Pass	
	2480	3.534	≤21	Pass	
	2402	4.884	≤21	Pass	
8DPSK	2441	4.484	≤21	Pass	
	2480	4.032	≤21	Pass	

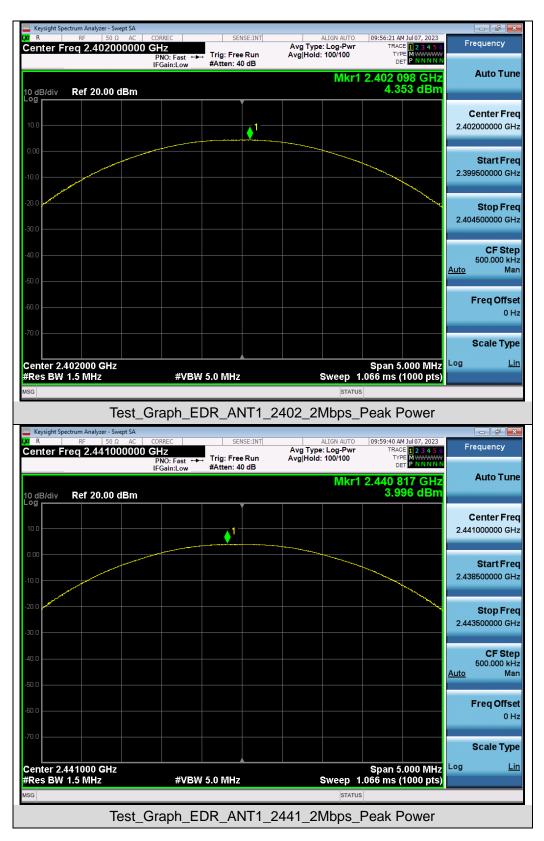
Test Graphs of Conducted Output Power



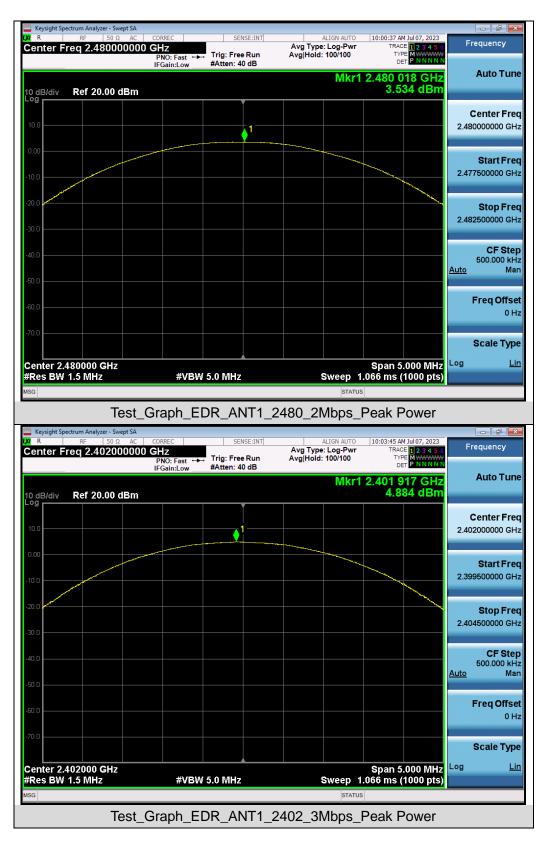




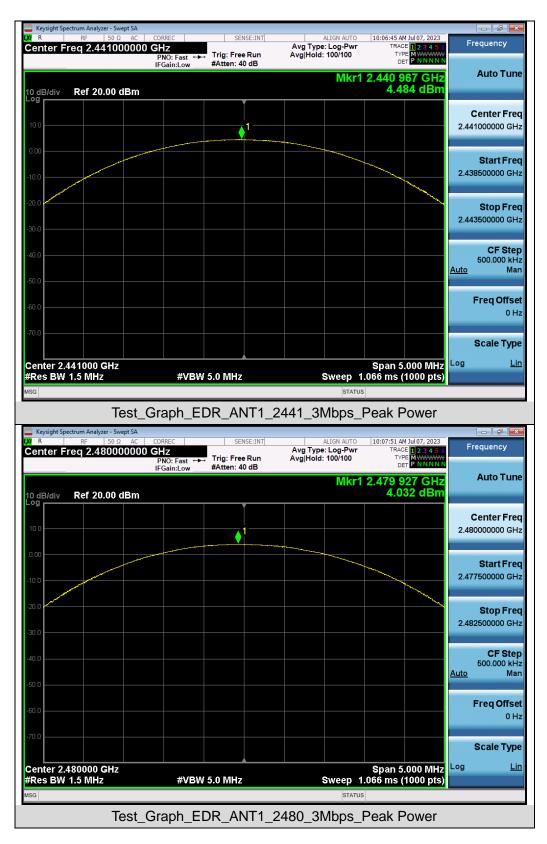












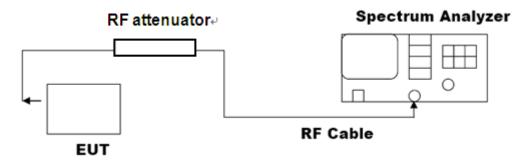


8. 20DB BANDWIDTH

8.1. 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 Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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

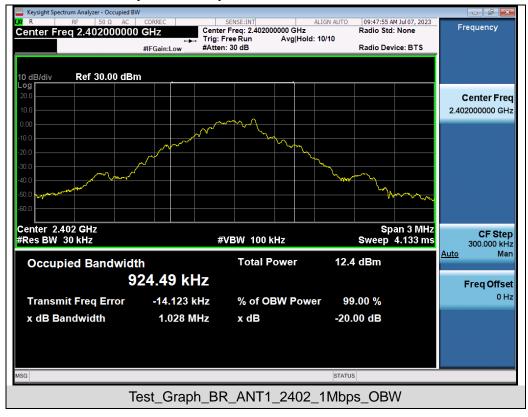


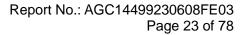


Test Data of Occupied Bandwidth and -20dB Bandwidth					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-20dB Bandwidth (MHz)	Limits	Pass or Fail
	2402	0.924	1.028	N/A	Pass
GFSK	2441	0.926	1.022	N/A	Pass
	2480	0.927	1.017	N/A	Pass
	2402	1.211	1.352	N/A	Pass
π /4-DQPSK	2441	1.216	1.354	N/A	Pass
	2480	1.222	1.352	N/A	Pass
8DPSK	2402	1.217	1.311	N/A	Pass
	2441	1.221	1.311	N/A	Pass
	2480	1.226	1.310	N/A	Pass

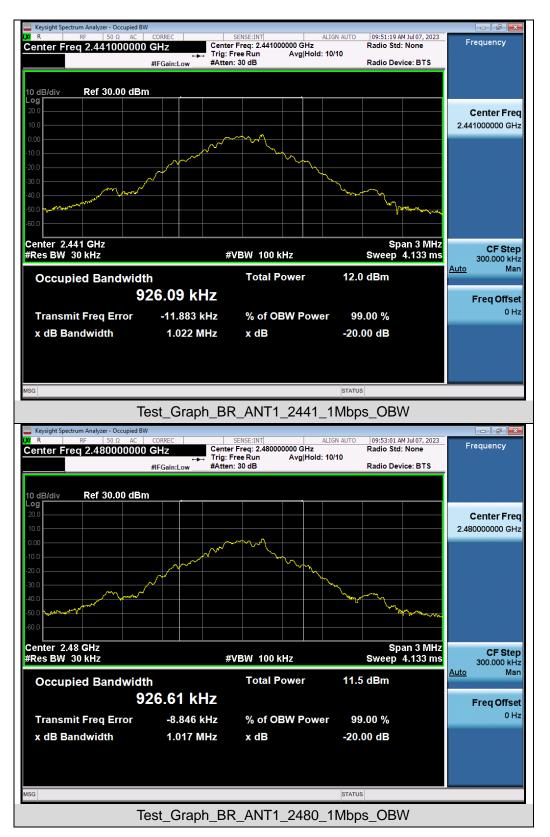
8.3. LIMITS AND MEASUREMENT RESULTS

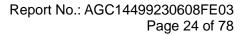
Test Graphs of Occupied Bandwidth and -20 Bandwidth



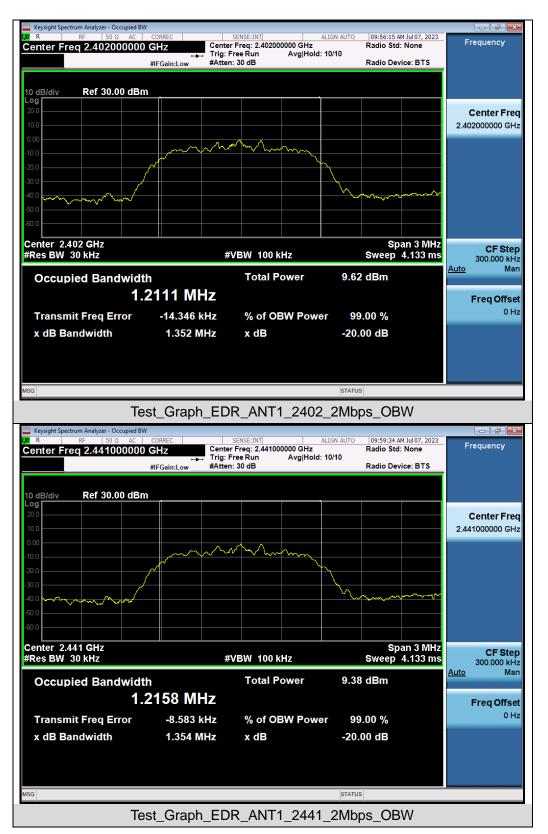


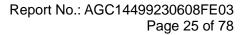




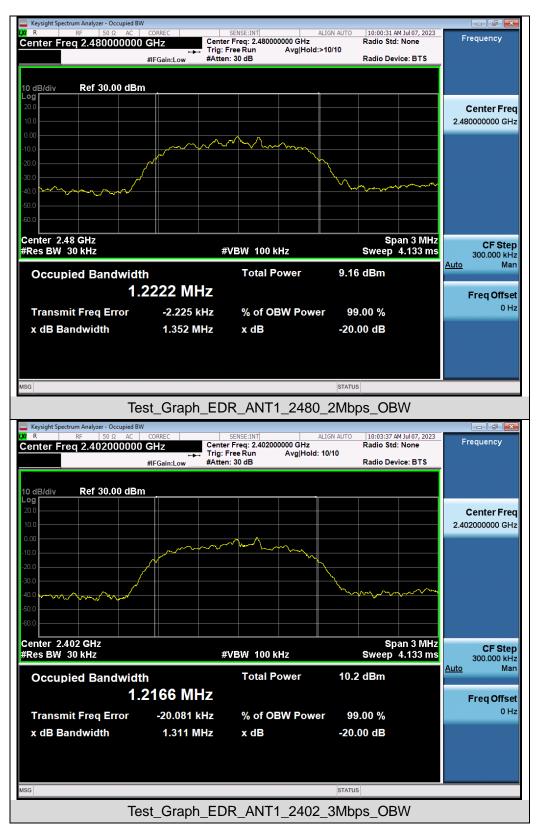




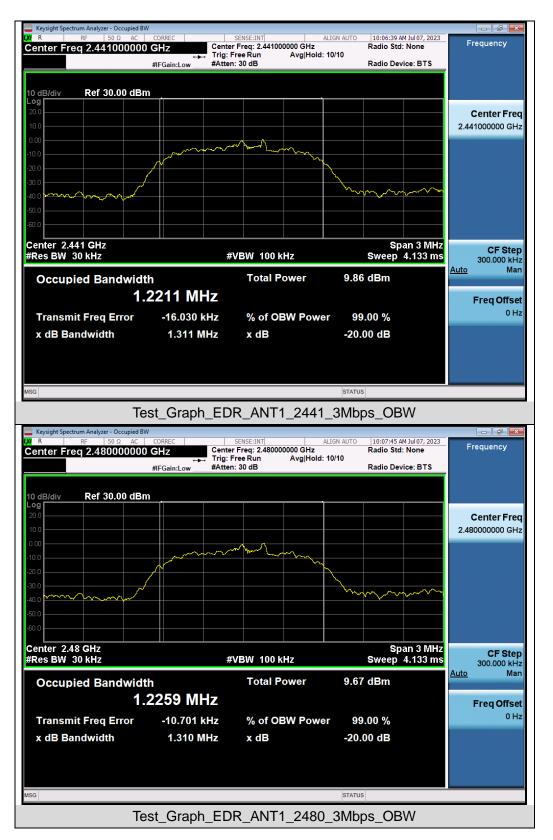














9. CONDUCTED SPURIOUS EMISSION

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.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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

The same as described in section 8.2

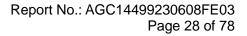
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT				
Applieghte Limite	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 kHz Bandwidth Outside the	At least -20dBc than the limit			
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS		
intentional radiator is operating, the radio frequency	Channel			
power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS		

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

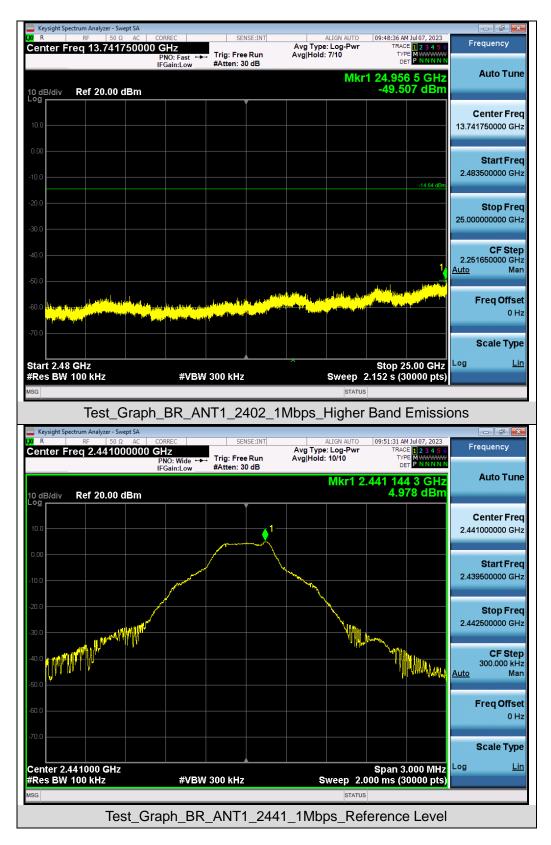




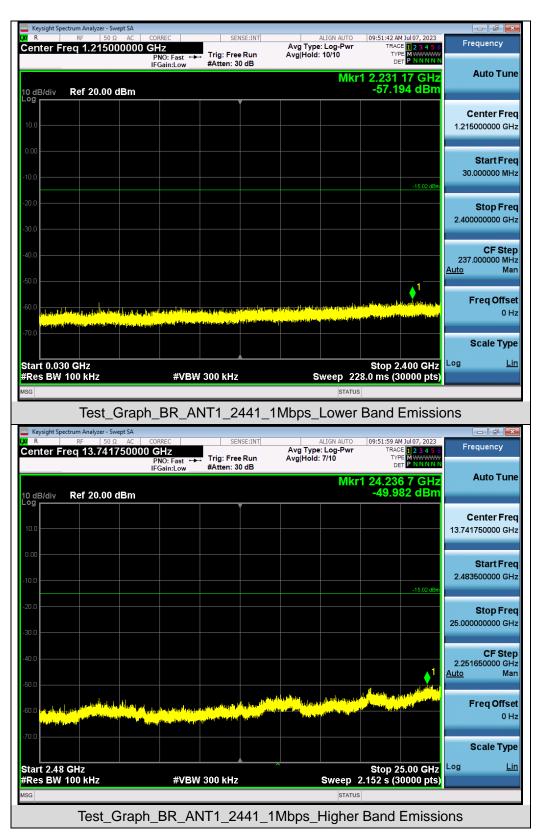


Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands

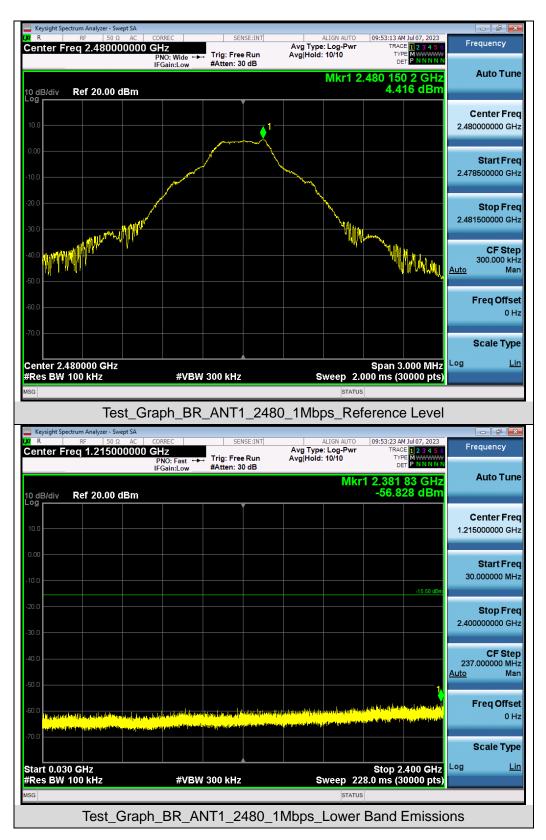




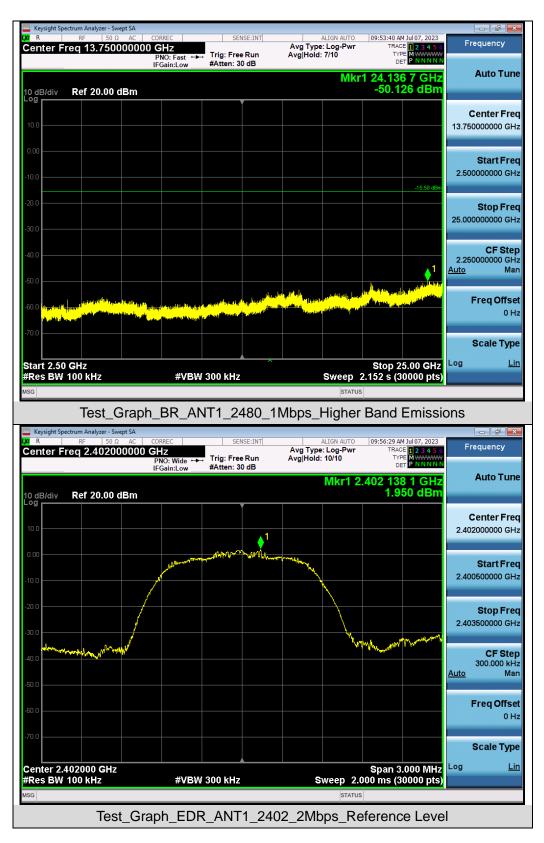




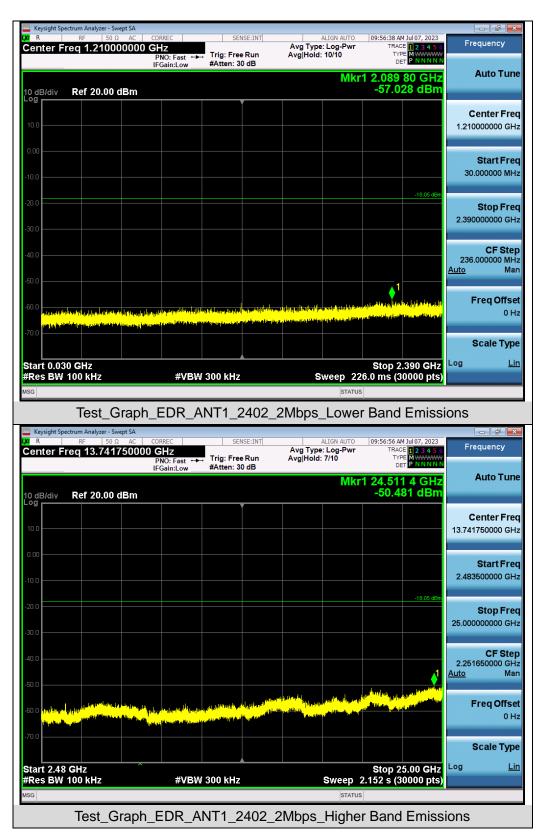




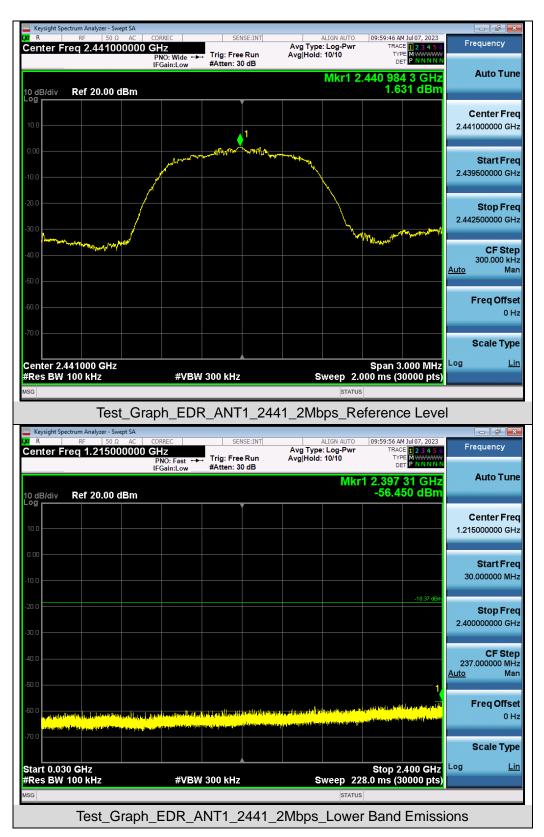




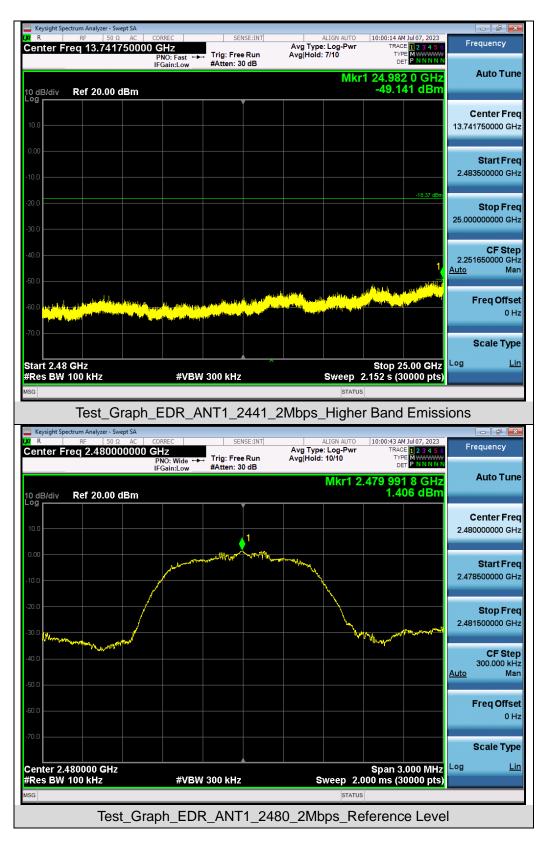




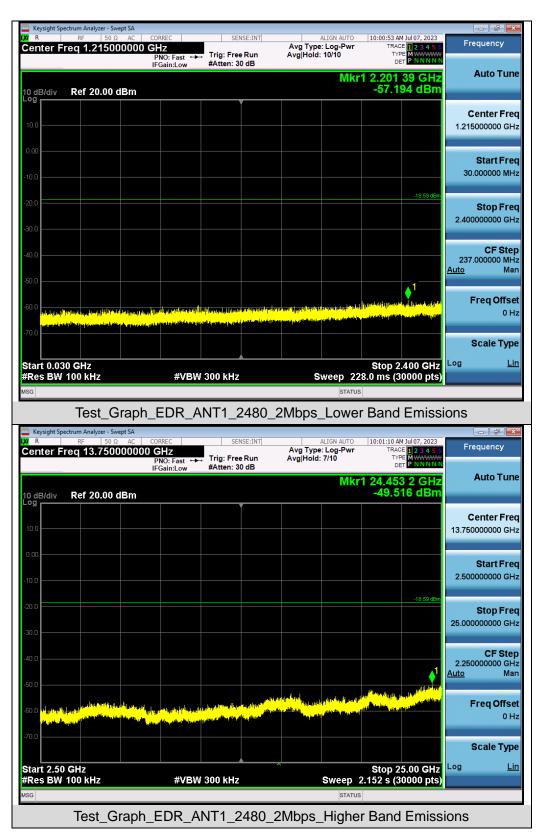




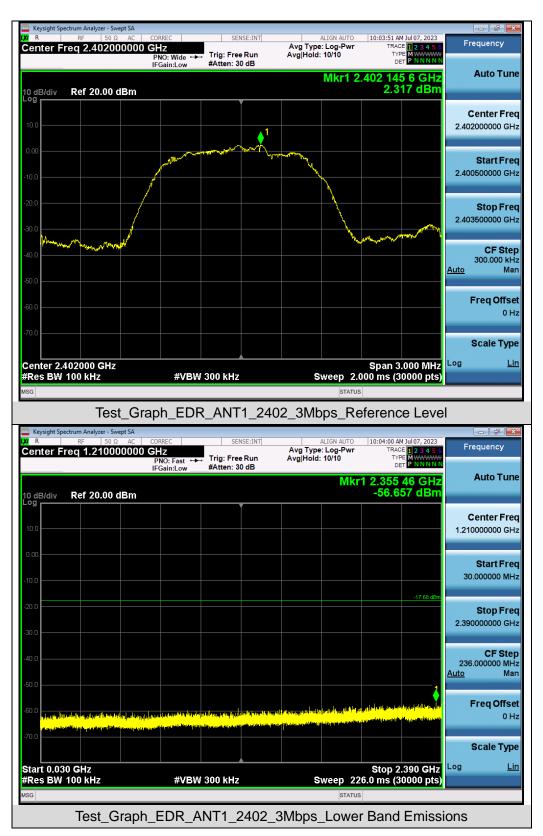




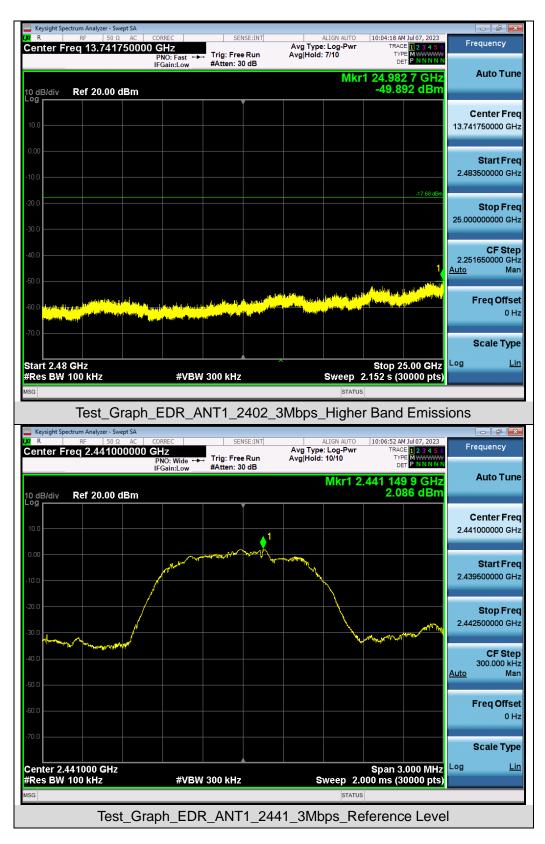




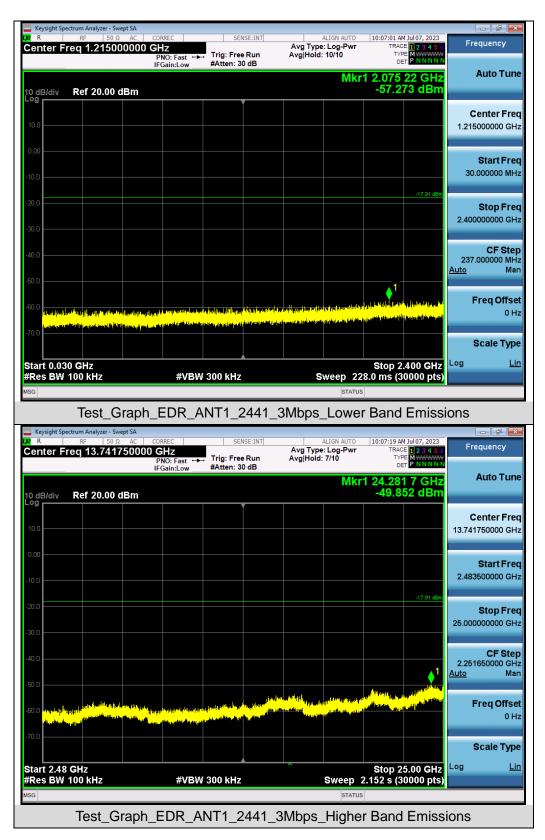




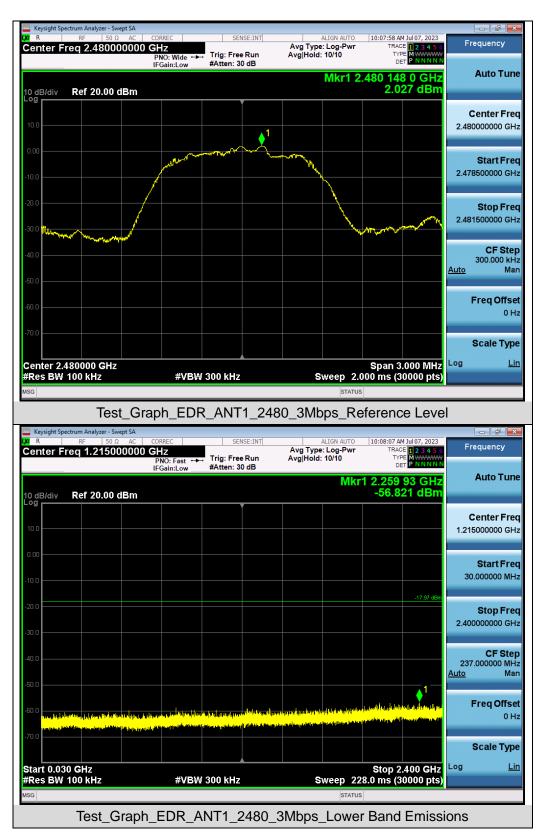




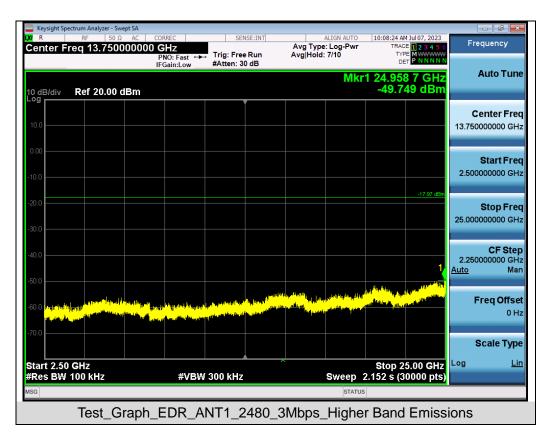


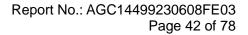




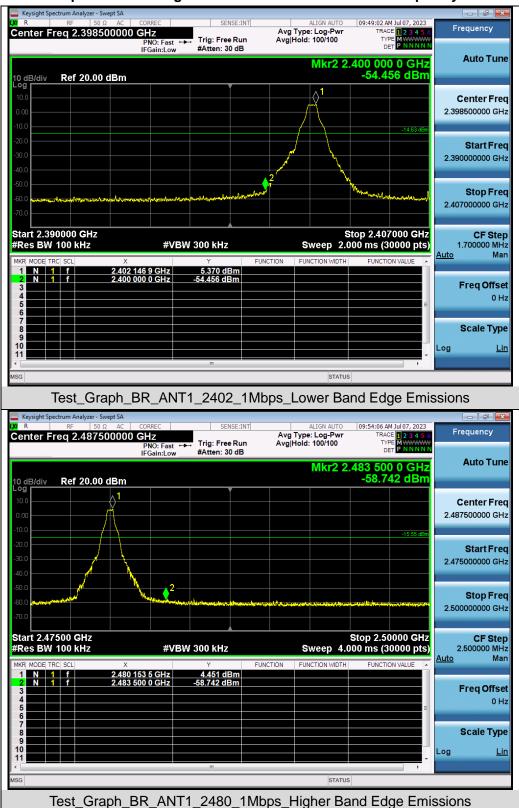






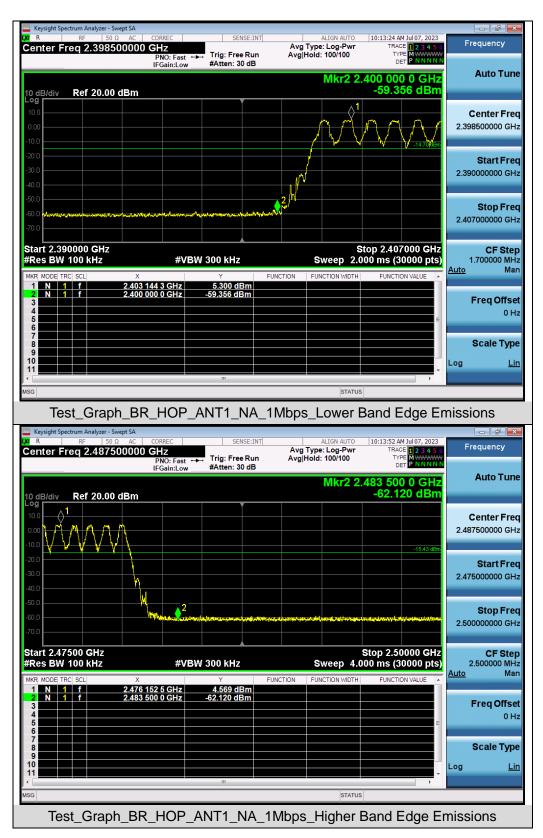






Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands























10. RADIATED EMISSION

10.1. 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 emission, 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 1MHz RBW and 3MHz VBW for peak reading. 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.

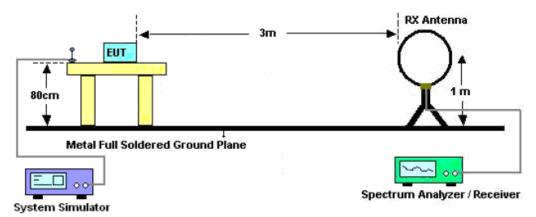
Spectrum Parameter	Setting	
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP	
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP	
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP	
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average	

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

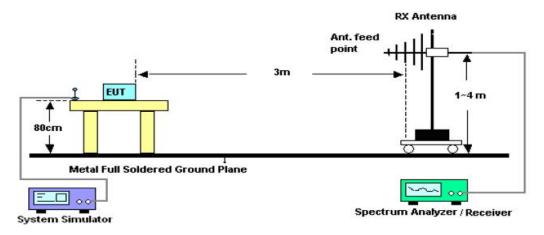


10.2. TEST SETUP

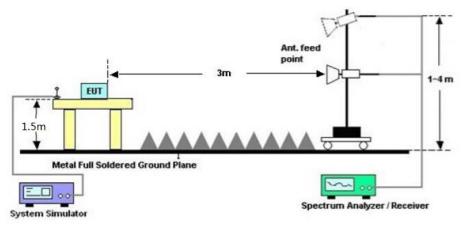
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz





10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/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
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

10.4. TEST RESULT

Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Horizontal

Radiated emission from 30MHz to 1000MHz

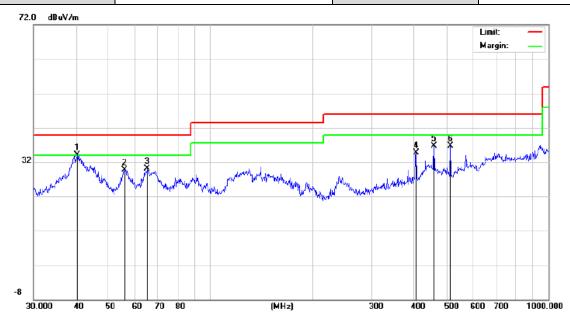


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	1	42.8243	11.24	14.78	26.02	43.50	-17.48	peak
2	2	43.3772	10.30	15.30	25.60	46.00	-20.40	peak
3	* 4	06.0880	18.21	20.52	38.73	46.00	-7.27	peak
4	4	32.5457	10.38	23.50	33.88	46.00	-12.12	peak
5	7	09.1823	8.06	24.42	32.48	46.00	-13.52	peak
6	9	00.1473	4.42	31.78	36.20	46.00	-9.80	peak

RESULT: PASS



EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	40.4172	17.15	16.90	34.05	40.00	-5.95	peak
2		55.6094	12.71	17.06	29.77	40.00	-10.23	peak
3		65.1145	12.99	17.05	30.04	40.00	-9.96	peak
4	4	406.0880	12.35	22.41	34.76	46.00	-11.24	peak
5	4	459.1144	11.51	25.24	36.75	46.00	-9.25	peak
6		513.6331	13.25	23.49	36.74	46.00	-9.26	peak

RESULT: PASS

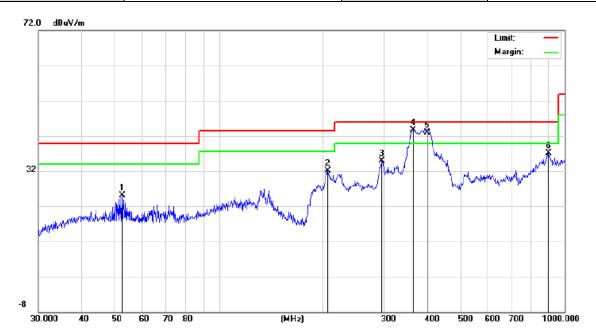
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 3 is the worst case and recorded in the report.



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EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 48V
Test Mode	Mode 15	Antenna	Horizontal

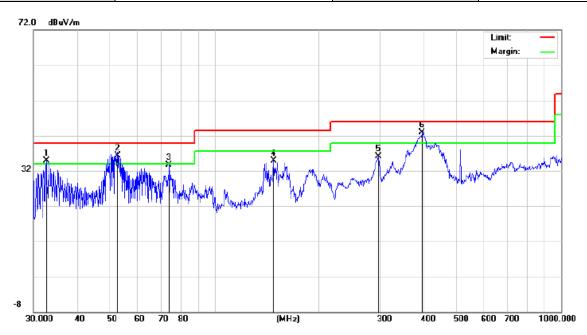


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		52.3912	12.15	13.03	25.18	40.00	-14.82	peak
2		206.3976	17.67	14.47	32.14	43.50	-11.36	peak
3		296.1836	19.76	15.19	34.95	46.00	-11.05	peak
4	*	365.5391	25.01	17.77	42.78	46.00	-3.22	QP
5	İ	400.4319	21.54	20.41	41.95	46.00	-4.05	QP
6		900.1474	5.35	31.78	37.13	46.00	-8.87	peak

RESULT: PASS



EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 48V
Test Mode	Mode 15	Antenna	Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	İ	32.6340	20.48	14.47	34.95	40.00	-5.05	peak
2	İ	52.3912	19.32	17.02	36.34	40.00	-3.66	QP
3		73.8756	16.66	16.96	33.62	40.00	-6.38	peak
4		147.9214	16.79	18.20	34.99	43.50	-8.51	peak
5		297.2241	17.19	18.83	36.02	46.00	-9.98	peak
6	*	397.6334	20.90	22.10	43.00	46.00	-3.00	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been pre-tested. The mode 15 is the worst case and recorded in the report.



Radiated emission above 1GHz

EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	52.36	0.08	52.44	74.00	-21.56	peak
4804.000	43.52	0.08	43.60	54.00	-10.40	AVG
7206.000	49.52	2.21	51.73	74.00	-22.27	peak
7206.000	40.31	2.21	42.52	54.00	-11.48	AVG
<u> </u>	ļ					
Remark:						
Factor = Anter	na Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	49.78	0.08	49.86	74.00	-24.14	peak
4804.000	41.12	0.08	41.20	54.00	-12.80	AVG
7206.000	50.13	2.21	52.34	74.00	-21.66	peak
7206.000	42.34	2.21	44.55	54.00	-9.45	AVG
Remark:						
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			



EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4882.000	52.34	0.14	52.48	74.00	-21.52	peak	
4882.000	38.23	0.14	38.37	54.00	-15.63	AVG	
7323.000	51.28	2.36	53.64	74.00	-20.36	peak	
7323.000	35.78	2.36	38.14	54.00	-15.86	AVG	
Remark:	• •		1			1	
Factor = Anter	nna Factor + Cabl	e Loss – Pre-a	amplifier.				

EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	48.74	0.14	48.88	74.00	-25.12	peak
4882.000	38.99	0.14	39.13	54.00	-14.87	AVG
7323.000	48.51	2.36	50.87	74.00	-23.13	peak
7323.000	38.74	2.36	41.10	54.00	-12.90	AVG
Remark:						
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			



EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	53.18	0.22	53.40	74.00	-20.60	peak
4960.000	42.55	0.22	42.77	54.00	-11.23	AVG
7440.000	48.39	2.64	51.03	74.00	-22.97	peak
7440.000	39.74	2.64	42.38	54.00	-11.62	AVG
Remark:	• •		•			•
Factor = Anter	na Factor + Cabl	e Loss – Pre-a	amplifier.			

EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	52.28	0.22	52.50	74.00	-21.50	peak
4960.000	42.33	0.22	42.55	54.00	-11.45	AVG
7440.000	48.91	2.64	51.55	74.00	-22.45	peak
7440.000	39.41	2.64	42.05	54.00	-11.95	AVG
Remark:						
actor = Anter	nna Factor + Cabl	e Loss – Pre-a	amplifier.			



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EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 48V
Test Mode	Mode 13	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	49.74	0.08	49.82	74.00	-24.18	peak
4804.000	41.78	0.08	41.86	54.00	-12.14	AVG
7206.000	48.22	2.21	50.43	74.00	-23.57	peak
7206.000	41.36	2.21	43.57	54.00	-10.43	AVG
Remark:	ļ		-1		ļ	ļ
Factor = Anter	nna Factor + Cabl	e Loss – Pre-a	amplifier.			

EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 48V
Test Mode	Mode 13	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	50.23	0.08	50.31	74.00	-23.69	peak
4804.000	42.15	0.08	42.23	54.00	-11.77	AVG
7206.000	47.36	2.21	49.57	74.00	-24.43	peak
7206.000	41.63	2.21	43.84	54.00	-10.16	AVG
Remark:						
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			



EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 48V
Test Mode	Mode 14	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	51.41	0.14	51.55	74.00	-22.45	peak
4882.000	38.56	0.14	38.70	54.00	-15.30	AVG
7323.000	49.34	2.36	51.70	74.00	-22.30	peak
7323.000	37.12	2.36	39.48	54.00	-14.52	AVG
Remark:	•				•	•
Factor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 48V
Test Mode	Mode 14	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	50.26	0.14	50.40	74.00	-23.60	peak
4882.000	39.41	0.14	39.55	54.00	-14.45	AVG
7323.000	48.36	2.36	50.72	74.00	-23.28	peak
7323.000	38.22	2.36	40.58	54.00	-13.42	AVG
Remark:	1		1			
Factor = Anter	na Factor + Cabl	e Loss – Pre-a	amplifier.			



EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 48V
Test Mode	Mode 15	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	52.36	0.22	52.58	74.00	-21.42	peak
4960.000	42.27	0.22	42.49	54.00	-11.52	AVG
7440.000	45.61	2.64	48.25	74.00	-25.75	peak
7440.000	39.41	2.64	42.05	54.00	-11.95	AVG
Remark:	· · · · ·		1			
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 48V
Test Mode	Mode 15	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	53.26	0.22	53.48	74.00	-20.52	peak
4960.000	41.28	0.22	41.50	54.00	-12.50	AVG
7440.000	47.36	2.64	50.00	74.00	-24.00	peak
7440.000	38.25	2.64	40.89	54.00	-13.11	AVG
Remark:						
Factor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

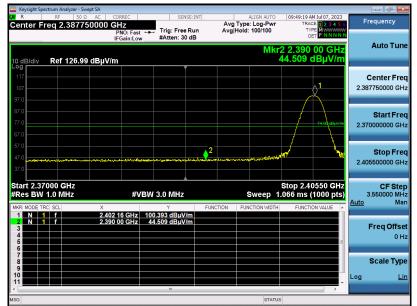
All test modes had been tested. The GFSK modulation is the worst case and recorded in the report.



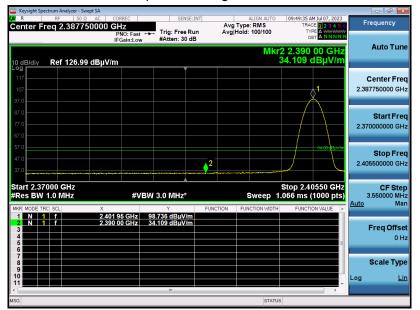
Test result for band edge emission at restricted bands

EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 1	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



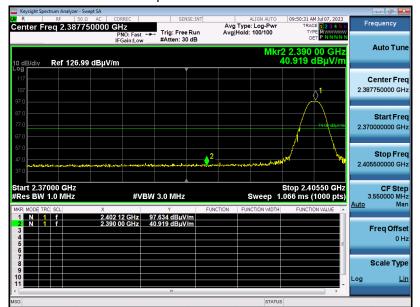
RESULT: PASS



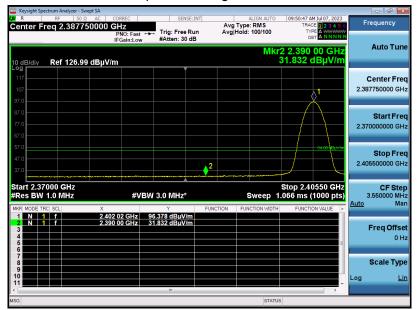
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EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 1	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



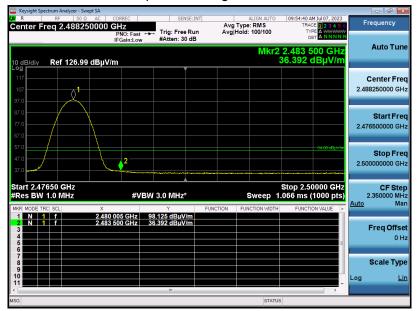
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EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



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EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	Mode 3	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Note:

- 1. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The GFSK modulation is the worst case and recorded in the report.
- 2. All voltages are tested. The test data of the worst case (DC 5V) was reported on the Summary Data page.



11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

3. VBW \geq RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.

4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

Test Data of Number of Hopping Frequency			
Test Mode	Number of Hopping Frequency	Limits	Pass or Fail
GFSK Hopping	79	>=15	Pass

10:14:53 AM Jul 07, 2023 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN Frequency Avg Type: Log-Pwr Avg|Hold: 100/100 eq 2.441750000 GHz Center Fr Trig: Free Run #Atten: 40 dB PNO: Fast +++ IFGain:Low Auto Tune Ref 30.00 dBm 0 dB/dis **Center Frea** 2.441750000 GHz Start Freq 2.40000000 GHz Stop Freq 2.483500000 GHz **CF** Step 8.350000 MHz Mar Auto **Freq Offset** 0 Hz Scale Type Log Start 2.40000 GHz #Res BW 200 kHz Lin Stop 2.48350 GHz #VBW 620 kHz Sweep 1.998 ms (1000 pts) Test_Graph_BR_HOP_ANT1_NA_1Mbps_Number of Hopping

Test Graphs of Number of Hopping Frequency

Note: The GFSK modulation is the worst case and recorded in the report.



12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.

2. RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4. Detector function: Peak. Trace: Max hold.

5. Use the marker-delta function to determine the transmit time per hop.

6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

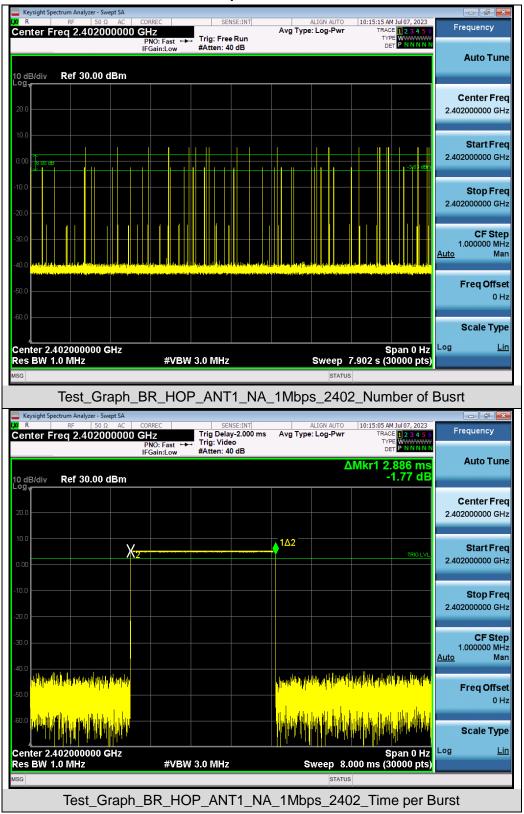
The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

Test Data of Dwell Time					
Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)	Pass or Fail
2402	2.886	22.0*4	253.968	400	Pass
2441	2.886	30.0*4	346.320	400	Pass
2480	2.886	34.0*4	392.496	400	Pass

Note: The GFSK modulation is the worst case and recorded in the report.





Test Graphs of Dwell Time

