

FCC Test Report

Report No.: AGC03709200801FE03

FCC ID	: 2AW6V-M7
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: Tablet PC
BRAND NAME	: GOODTEL, FACETEL , YESTEL
MODEL NAME	: M7, G2, G3, G6, X2, X7, T5, Q3
APPLICANT	: Shenzhenshi Haogemen Technology Co., Ltd.
DATE OF ISSUE	: Sep. 19, 2020
STANDARD(S)	: FCC Part 15.247
REPORT VERSION	: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	. /	Sep. 19, 2020	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhenshi Haogemen Technology Co., Ltd.		
Applicant	201, Building A, No. 5, Minle Road, Pinghu Community, Pinghu Street,		
Address 201, Building A, No. 5, Minie Road, Pinghu Community, Pinghu Longgang District, Shenzhen			
Manufacturer	Shenzhenshi Haogemen Technology Co., Ltd.		
Address	201, Building A, No. 5, Minle Road, Pinghu Community, Pinghu Street, Longgang District, Shenzhen		
Factory	Shenzhenshi Haogemen Technology Co., Ltd.		
Address	201, Building A, No. 5, Minle Road, Pinghu Community, Pinghu Street, Longgang District, Shenzhen		
Product Designation	Tablet PC		
Brand Name	GOODTEL, FACETEL, YESTEL		
Test Model	M7		
Series Model	G2,G3,G6,X2,X7,T5,Q3		
Difference description All the series models are the same as the test model except for the monames and trademark. Trademark "GOODTEL" corresponds to model "M7, G2, G3, G6"; Trademark "YESTEL" corresponds to model "X2, X7, T5"; Trademark "FACETEL " corresponds to model "Q3"			
Date of test	Aug. 05, 2020 to Sep. 18, 2020		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BR/RF		

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

Zurk. Jang

Erik Yang (Project Engineer)

Sep. 18, 2020

Max Zhang

Max Zhang

(Reviewer)

Reviewed By

Sep. 19, 2020

Approved By

former

Forrest Lei (Authorized Officer)

Sep. 19, 2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Tablet PC". 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	4.545dBm (Max)	
Bluetooth Version	V 4.0	
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps	
Number of channels	79	
Hardware Version	M107-MB-V1.1	
Software Version	QP1A.190711.020 release-keys	
Antenna Designation	Integral Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	enna Gain 0.5dBi	
Power Supply	DC 3.8V by battery or DC 5V by adapter	

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402 MHz
	<u> </u>	2403 MHz
0		
	38	2440 MHz
2402~2480MHz	39	2441 MHz
	40	2442 MHz
	77	2479 MHz
	78	2480 MHz

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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: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

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

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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:** 2AW6V-M7filing 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.

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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%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ± 2 %
- Uncertainty of Frequency: $Uc = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π/4-DQPSK
5	Middle channel π/4-DQPSK
6	High channel π/4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Hopping mode GFSK
11	Hopping mode π/4-DQPSK
12	Hopping mode 8DPSK

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.

4. The test software is the Engineering command which can set the EUT into the individual test modes.

5. For battery operated equipment, the battery is full charged during test.

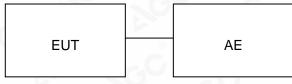
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

	w i	
EUT		AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No.	ID or Specification	Remark
1	Tablet PC	M7	2AW6V-M7	EUT
2	Adapter	TC319U-5200	Input: 100-240V, 50/60Hz, 0.35A Output:5V, 2A	AE
3	Charger line	N/A	0.5m	AE
4	Earphone	N/A	N/A	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

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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	May 15, 2020	May 14, 2021
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2022
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	May 15, 2020	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

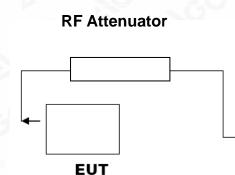
For peak power test:

- 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.

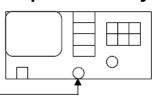
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

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

PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable

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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT						
FOR GFSK MOUDULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.402	4.301	21	Pass			
2.441	3.555	21	Pass			
2.480	1.479	21	Pass			

CH0

gilent Spectrum Analyzer - Swept SA				
RL RF 50 Ω AC Center Freq 2.402000000	CORREC SENSE:PULSE	ALIGN AUTO Avg Type: Log-Pwr	08:34:40 PM Aug 31, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 20.00 dBm	PNO: Fast + Trig: Free Run IFGain:Low Atten: 30 dB	Avg Hold: 100/100 Mkr1	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET PNNNNN 2.402 070 GHz 4.301 dBm	Auto Tune
				Center Freq 2.402000000 GHz
0.00				Start Freq 2.399500000 GHz
30.0				Stop Freq 2.404500000 GHz
40.0				CF Step 500.000 kH Auto Mar
60.0				Freq Offse 0 H:
70.0 Center 2.402000 GHz Res BW 1.5 MHz	#VBW 5.0 MHz	Sween 1	Span 5.000 MHz .000 ms (1001 pts)	
	**IDW 5.0 WI12	SWIGEP		

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PEAK OUTPUT POWER MEASUREMENT RESULT					
FOR Π/4-DQPSK MODULATION Frequency (GHz) Peak Power (dBm) Applicable Limits (dBm) Pass or Fail					
2.402	4.311	21	Pass		
2.441	3.113	21	Pass		
2.480	1.535	21	Pass		

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Agilent Spectrum Analyzer - Swept SA	CORREC	SENSE:PULSE	ALIGN AUTO	08:38:03 PM Aug 31, 2020	
Center Freq 2.48000000	0 GHz		Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 123456 TYPE MWWWWW	Frequency
	PNO: Fast 🔸	Atten: 30 dB		DET P NNNNN 2.479 885 GHz	Auto Tun
10 dB/div Ref 20.00 dBm				1.535 dBm	
10.0		.1			Center Fre 2.480000000 GH
0.00					Start Fre
-10.0					2.477500000 GH
-30.0					Stop Fre 2.482500000 GH
40.0					CF Ste 500.000 kl <u>Auto</u> M
60.0					Freq Offs
70.0					
Center 2.480000 GHz Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep	Span 5.000 MHz 1.000 ms (1001 pts)	
ISG			STATU	s	

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Bedicated Pesting/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 15day Safer the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

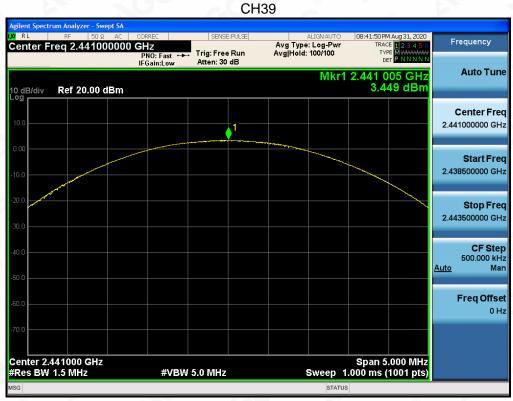
PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION				
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail	
2.402	4.545	21	Pass	
2.441	3.449	21	Pass	
2.480	1.732	21	Pass	

CH0



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CH78

LXI RL	um Analyzer - Swept S/ RF 50 ג AC req 2.4800000	CORREC	SENSE:PULSE	ALIGN AUT		Frequency
10 dB/div	Ref 20.00 dBm	PNO: Fast 🔸 IFGain:Low	- Trig: Free Run Atten: 30 dB	Avg Hold: 100/100	r1 2.480 000 GHz 1.732 dBm	Auto Tun
10.0			1			Center Fre 2.480000000 G⊦
-10.0						Start Fre 2.477500000 G⊦
-20.0						Stop Fre 2.482500000 G⊦
-40.0						CF Ste 500.000 kł <u>Auto</u> Ma
-60.0						Freq Offs 0 H
-70.0 Center 2.4 #Res BW	480000 GHz 1.5 MHz	#VBM	5.0 MHz	Sweed	Span 5.000 MHz 1.000 ms (1001 pts)	
MSG				STA		

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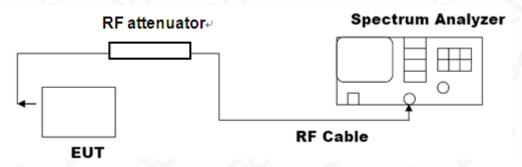


8. 20DB BANDWIDTH

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)



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8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION					
Annicable Limite		Measurement Result			
Applicable Limits	Test Data	Test Data (MHz)			
N/A	Low Channel	0.929	PASS		
	Middle Channel	0.931	PASS		
	High Channel	0.928	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

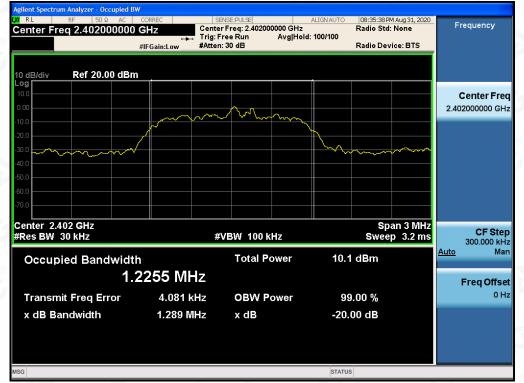


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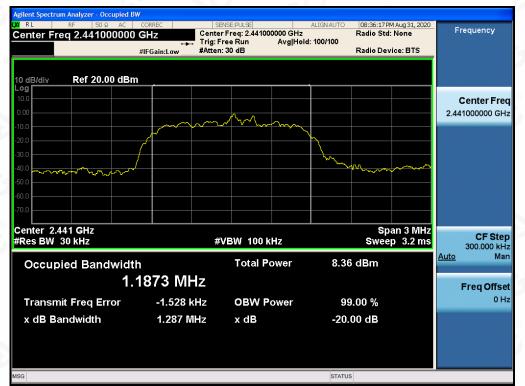


MEASURE		OQPSK MODULATIO	N	
Applicable Limita		Measurement Resu	lt	
Applicable Limits	Test Data	Test Data (MHz)		
N/A	Low Channel	1.289	PASS	
	Middle Channel	1.287	PASS	
	High Channel	1.288	PASS	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

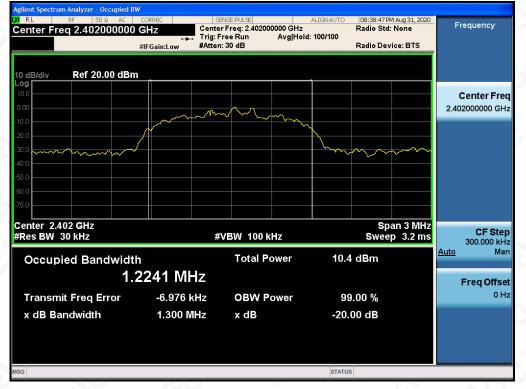


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MEASUREMENT RESULT FOR 8-DPSK MODULATION					
Measurement Result					
Applicable Limits	Test Da	Test Data (MHz)			
	Low Channel	1.300	PASS		
N/A	Middle Channel	1.294	PASS		
-C	High Channel	1.297	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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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

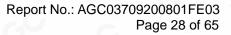
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEAS	SUREMENT RESULT			
Annlinghig Limite	Measurement Result			
Applicable Limits	Test Data	Criteria		
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS		
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		

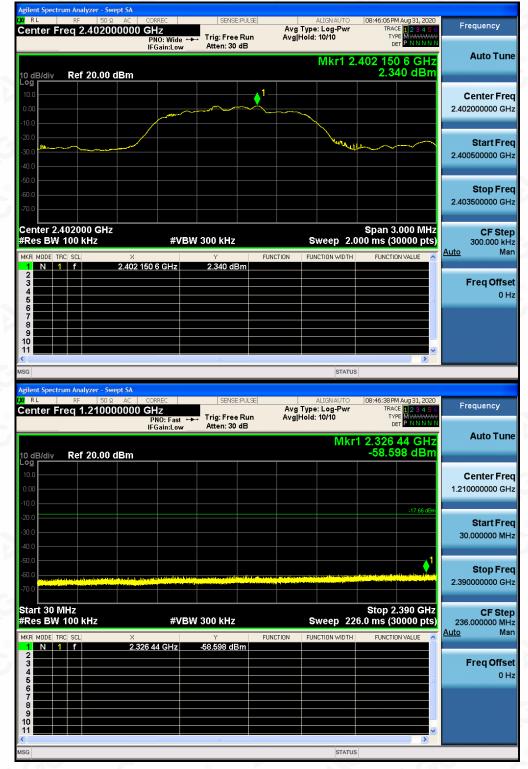
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TEST RESULT FOR ENTIRE FREQUENCY RANGE

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL



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Report No.: AGC03709200801FE03 Page 29 of 65



Agilent Spectrum Analyzer						
Center Freq 13.7	50 Ω AC CORP 41750000 GH	17		ALIGNAUTO	08:46:59 PM Aug 31, 2020 TRACE 1 2 3 4 5 (Frequency
10 dB/div Ref 20.		0:Fast ↔ Trig:Fi ain:Low Atten:		gjHold: 10/10 Mkt	1 24.056 5 GHz -49.234 dBm	Auto Tune
Log 10.0 0.00						Center Freq 13.741750000 GHz
-20.0 -30.0 -40.0					-17.66 dBm	Start Freq 2.483500000 GHz
-50.0 -60.0 m. (Ny <u>mana amin'</u> dia k a						Stop Freq 25.000000000 GHz
Start 2.48 GHz #Res BW 100 kHz	X	#VBW 300 kH	FUNCTION		Stop 25.00 GHz 2.152 s (30000 pts FUNCTION VALUE	CF Step 2.251650000 GHz <u>Auto</u> Man
1 N 1 f 2 3 4 4 5 5 6 7 8 9 9 10 11 5 5 5 8 7 8 7 8 7 8 7 9 7 10 7 11 7 5 7 8 7 11 7 1 7 1 7 1 7 1 7 1 7 1 7	24.056 5	GHz 49.234	dBm			Freq Offset 0 Hz

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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com





TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL

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Report No.: AGC03709200801FE03 Page 31 of 65



Center Freq 13.741750000 GHz PN0: Fast IFGsin:Low Trig: Free Run Atten: 30 dB Avg Type: Log-Pwr Avg Hold: 10/10 Trig: Frequency Frequency 10 dB/div Ref 20.00 dBm		um Analyzer - Sw									
PRO: Fast Production Perf PNNNNN IFGaint.ow Atten: 30 dB Mkr1 24,554 9 GHz 10 dB/div Ref 20.00 dBm -49,535 dBm 100 -49,535 dBm -49,535 dBm 2,48350000 G -40,0 -49,535 dBm -40,0 -49,535 dBm -49,535 dBm -50,0 -40,0 -49,535 dBm -60,0 -40,0 -49,535 dBm -50,0 -40,0 -49,535 dBm -70,0 -40,0 -49,535 dBm Start 2,48 GHz WBW 300 kHz Sweep 2,152 s (30000 pts) X Y FUNCTION FUNCTION WIDTH 2,3 -49,535 dBm -49,535 dBm 2,3 -49,535 dBm -49,535 dBm 2,3 -49,535 dBm -49,535 dBm 2,400 -49,535 dBm -49,535 dBm 2,5165000 G -40,535 dBm -49,535 dBm 1,1 <t< th=""><th>Center F</th><th></th><th></th><th></th><th></th><th>A</th><th>/g Type</th><th>: Log-Pwr</th><th>TRA</th><th>CE 123456</th><th>Frequency</th></t<>	Center F					A	/g Type	: Log-Pwr	TRA	CE 123456	Frequency
Log	10 dB/div	Ref 20.00	IFG				g Hold:		1 24.55	et <mark>P NNNNN</mark> 4 9 GHz	Auto Tun
-20.0 -19.24 dtm 30.0 -24.00 40.0 -24.00 50.0 -25.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 50.0 -24.00 6 -24.00 6 -24.00 6 -24.00 6 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0 -24.00 70.0	10.0 0.00										Center Fre 13.741750000 G⊦
C0.0 Links C1.0 Stop Fr Stop F	-20.0 -30.0									-19.24 dBm	Start Fre 2.483500000 G⊦
#Res BW 100 kHz #VBW 300 kHz Sweep 2.152 s (30000 pts) 2.251650000 G MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE Auto 1 N 1 f 24.554 9 GHz -49.535 dBm Freq Offse Auto M 2 3 - <	-60.0 <mark>dente</mark>			ni and an internal da _n Alaman ang d							Stop Fre 25.000000000 G⊦
2 3 5 5 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	#Res BW	100 kHz			Y			· ·	2.152 s (3	0000 pts)	CF Ste 2.251650000 G⊢ <u>Auto</u> Ma
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 3 4 5 6 7 8 9 10	f i	24.554 9	GHz	-49.535 dBm						Freq Offs(0 ⊦

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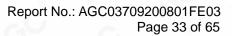
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/



Agilent Spectrum Analyzer - S X RL RF 50 Center Freq 2.4800	Ω AC CORREC	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	09:00:42 PM Aug 31, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
10 dB/div Ref 20.00		Hach of us	Mkr1 2.	479 841 7 GHz -0.404 dBm	Auto Tu
10 dB/div Ref 20.00					Center Fr
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20.0					Start Fr
-30.0				Mun	2.478500000 G
-50.0					Stop Fr
70.0					2.481500000 G
Center 2.480000 GH #Res BW 100 kHz		V 300 kHz	Sweep 2.0	Span 3.000 MHz 00 ms (30000 pts)	CF St 300.000 k
MKR MODE TRC SCL	× 2.479 841 7 GHz	Y FI -0.404 dBm	JNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto M
2 3 4 5	2.4/3 0417 GHZ	-0.404 (IBIII			Freq Offs 0
6 7 8					
9 10 11				×	
sg			STATUS	>	
Agilent Spectrum Analyzer - S	Sugart CA				
X/RL RF 50	Ω AC CORREC	SENSE:PULSE	ALIGNAUTO	09:01:13PM Aug 31, 2020	Frequency
Center Freq 1.2150	000000 GHz PNO: Fast ↔ IFGain:Low	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456	ricquericy
		Atten: 30 dB	Argineta, terte	TYPE MWWWWW DET PNNNNN	
0 dB/div Ref 20.00		Atten: 30 dB		2.393 92 GHz -57.199 dBm	Auto Tu
10 dB/div Ref 20.00		Atten: 30 dB		2.393 92 GHz	
-og 10.0 0.00		Atten: 30 dB		2.393 92 GHz	Center Fr
• • • • • • • • • • • • • • • • • • •		Atten: 30 dB		2.393 92 GHz	Center Fr 1.215000000 G
• 9 10.0 0.00 10.0 20.0 30.0		Atten: 30 dB		2.393 92 GHz -57.199 dBm	Center Fr 1.21500000 G Start Fr
og 10.0 0.00 10.0 20.0 30.0 40.0 50.0		Atten: 30 dB		2.393 92 GHz -57.199 dBm	Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr
- og 10.0 0.00				2.393 92 GHz -57.199 dBm	Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr
-og 10.0 000 10.0 20.0 40.0 50		Atten: 30 dB		2.393 92 GHz -57.199 dBm	Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G
• 09		V 300 kHz		2.393 92 GHz -57.199 dBm -20.40 dBm -20.40 dBm -1 -20.40 dBm -1 Stop 2.400 GHz	Center Fr 1.21500000 G Start Fr 30.00000 M Stop Fr 2.40000000 G CF St 237.00000 M
• 09) dBm	V 300 KHz	Mkr Mkr Sweep 228	2.393 92 GHz -57.199 dBm -2040 dBm -	Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G CF St 237.00000 M <u>Auto</u> M
• 09		V 300 kHz	Mkr Mkr Sweep 228	2.393 92 GHz -57.199 dBm -2040 dBm -	Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G CF St 237.00000 M Auto M
• 09		V 300 kHz	Mkr Mkr Sweep 228	2.393 92 GHz -57.199 dBm -2040 dBm -	Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G CF St 237.00000 M Auto M
• • • • • • • • • • • • • • • • • • •		V 300 kHz	Mkr Mkr Sweep 228	2.393 92 GHz -57.199 dBm -2040 dBm -	Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr 2.40000000 G CF St 237.00000 M Auto M
• og		V 300 kHz	Mkr Mkr Sweep 228	2.393 92 GHz -57.199 dBm -2040 dBm -	Auto Tu Center Fr 1.215000000 G Start Fr 30.00000 M Stop Fr 2.400000000 G CF Sto 237.00000 M Auto M Freq Offs 0

TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL

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		trum		ilyzer - S																		
(X) RI Cen		Fre	RF	50 3.750						SENS	E:PULS	3E	Avg		LIGNAUTO			I Aug 31, : E <mark>1 2 3</mark> -			Freque	ency
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-20.0																		-20.40	, abri		Sta	nt Freq
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Star	t 2.5	50 G	Hz							^					1	Sto	p 2:	5.00 G	Hz		C	F Step
#Re:	s BV	V 11	00	kHz				#V	BW	300 kHz	2				Sweep	2.152 9	i (3	0000	ots)		250000	000 GHz
MKR						Х				Y		FUN	CTION	FUN	ICTION WIDTH	FU	NCTIO	N VALUE	^	Auto	<u>1</u>	Man
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MSG															STATU	S						

Note: The 8DPSK modulation is the worst case and only those data recorded in the report.

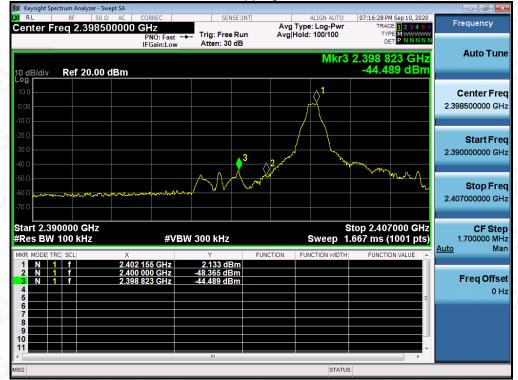
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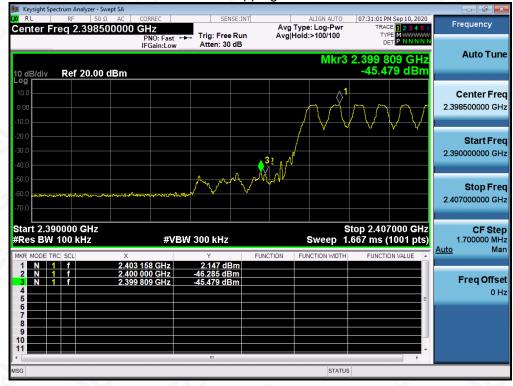
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

Hopping off

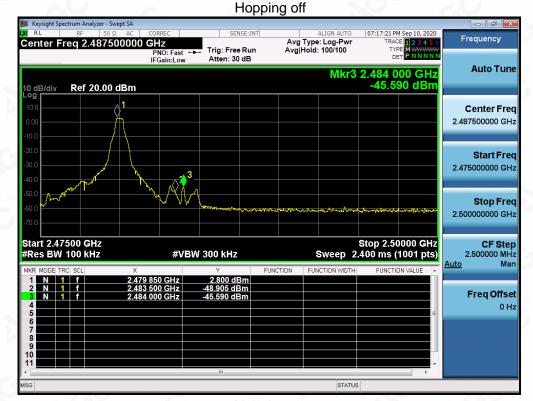


Hopping on



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GFSK MODULATION IN HIGH CHANNEL

Hopping on



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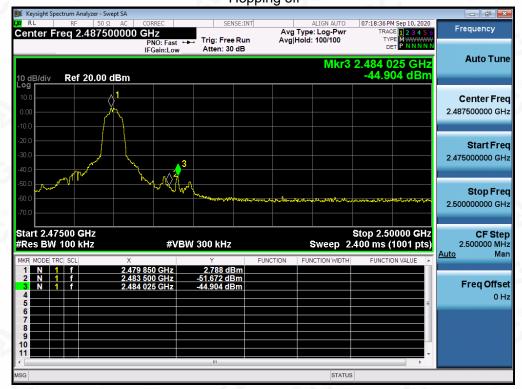
π /4-DQPSK MODULATION IN LOW CHANNEL10 Hopping off

Hopping on



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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



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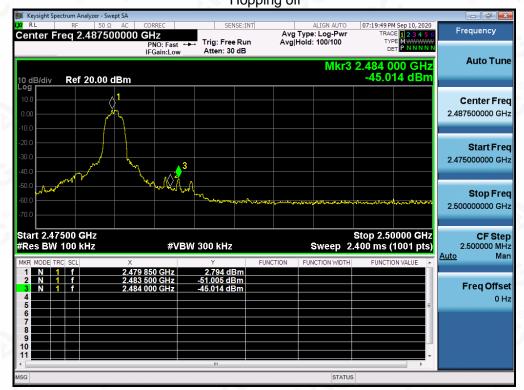
8-DPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



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8-DPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



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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.

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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

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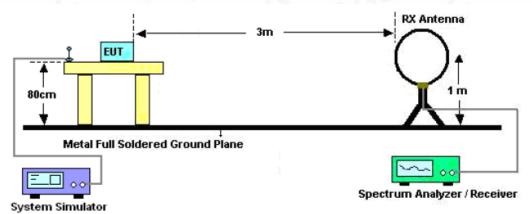
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 E-mail: agc@agc-cert.com

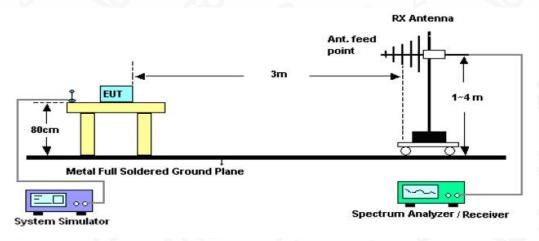


10.2. TEST SETUP

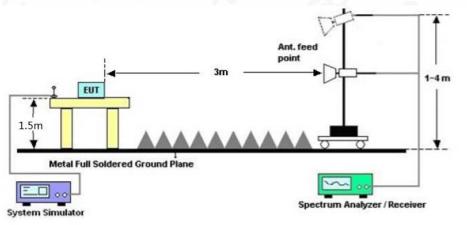
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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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.

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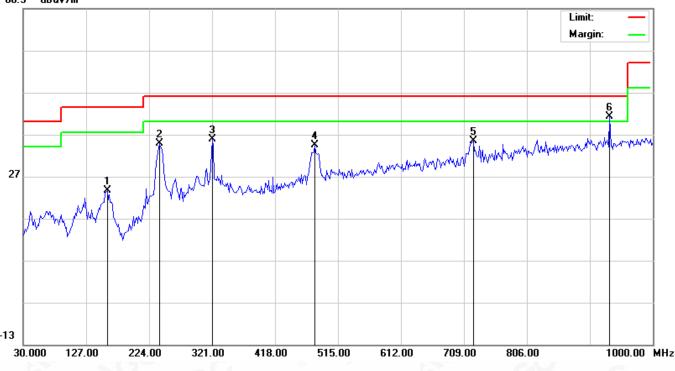


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RADIATED EMISSION BELOW 1GHz

EUT	Tablet PC	Model Name	M7
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Horizontal

66.9 dBuV/m



No. Mk. Freq. Reading Level Correct Factor Measure- ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector 1 159.3333 4.52 19.02 23.54 43.50 -19.96 peak 2 240.1667 16.15 18.66 34.81 46.00 -11.19 peak 3 321.0000 14.34 21.37 35.71 46.00 -10.29 peak 4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak 6 * 933.7167 9.31 31.99 41.30 46.00 -4.70 peak									
1 159.3333 4.52 19.02 23.54 43.50 -19.96 peak 2 240.1667 16.15 18.66 34.81 46.00 -11.19 peak 3 321.0000 14.34 21.37 35.71 46.00 -10.29 peak 4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak	No.	Mk	. Freq.	-			Limit	Over	
2 240.1667 16.15 18.66 34.81 46.00 -11.19 peak 3 321.0000 14.34 21.37 35.71 46.00 -10.29 peak 4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
3 321.0000 14.34 21.37 35.71 46.00 -10.29 peak 4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak	1		159.3333	4.52	19.02	23.54	43.50	-19.96	peak
4 479.4333 10.27 24.17 34.44 46.00 -11.56 peak 5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak	2		240.1667	16.15	18.66	34.81	46.00	-11.19	peak
5 723.5500 6.78 28.68 35.46 46.00 -10.54 peak	3		321.0000	14.34	21.37	35.71	46.00	-10.29	peak
	4		479.4333	10.27	24.17	34.44	46.00	-11.56	peak
6 * 933.7167 9.31 31.99 41.30 46.00 -4.70 peak	5		723.5500	6.78	28.68	35.46	46.00	-10.54	peak
	6	*	933.7167	9.31	31.99	41.30	46.00	-4.70	peak

RESULT: PASS

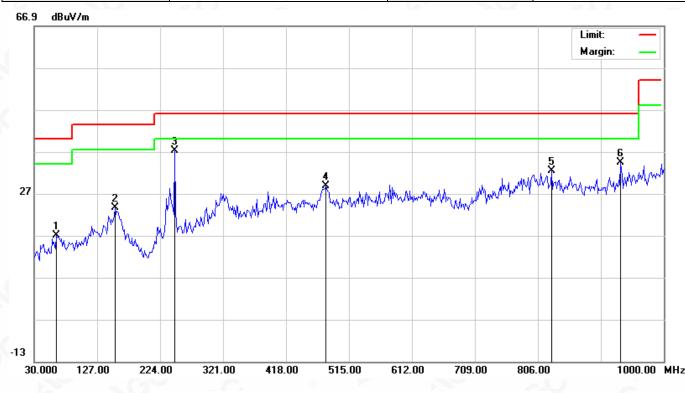
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Report No.: AGC03709200801FE03 Page 45 of 65

EUT	Tablet PC	Model Name	M7
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 4	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		63.9500	0.60	16.36	16.96	40.00	-23.04	peak
2		154.4832	4.40	19.20	23.60	43.50	-19.90	peak
3	*	246.6333	18.75	18.54	37.29	46.00	-8.71	peak
4		479.4333	4.25	24.58	28.83	46.00	-17.17	peak
5		827.0167	2.80	29.68	32.48	46.00	-13.52	peak
6		933.7167	5.11	29.34	34.45	46.00	-11.55	peak

RESULT: PASS

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

2. All test modes had been pre-tested. The mode 4 is the worst case and recorded in the report.

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RADIATED EMISSION ABOVE 1GHz

EUT	Tablet PC	Model Name	M7
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
46.59	0.08	46.67	74	-27.33	peak
37.48	0.08	37.56	54	-16.44	AVG
41.23	2.21	43.44	74	-30.56	peak
32.12	2.21	34.33	54	-19.67	AVG
					0
	-			- CV	-
	(dBµV) 46.59 37.48 41.23	(dBµV) (dB) 46.59 0.08 37.48 0.08 41.23 2.21	(dBµV) (dB) (dBµV/m) 46.59 0.08 46.67 37.48 0.08 37.56 41.23 2.21 43.44	(dBµV) (dB) (dBµV/m) (dBµV/m) 46.59 0.08 46.67 74 37.48 0.08 37.56 54 41.23 2.21 43.44 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 46.59 0.08 46.67 74 -27.33 37.48 0.08 37.56 54 -16.44 41.23 2.21 43.44 74 -30.56

EUT	Tablet PC	Model Name	M7
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
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	46.28	0.08	46.36	74	-27.64	peak
4804.000	35.47	0.08	35.55	54	-18.45	AVG
7206.000	39.94	2.21	42.15	74	-31.85	peak
7206.000	30.03	2.21	32.24	54	-21.76	AVG
	®		6	G	9	

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EUT	Tablet PC	Model Name	M7
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	45.68	0.14	45.82	74	-28.18	peak
4882.000	36.42	0.14	36.56	54	-17.44	AVG
7323.000	40.18	2.36	42.54	74	-31.46	peak
7323.000	30.44	2.36	32.8	54	-21.2	AVG
3				8		
	8				0	

EUT	Tablet PC	Model Name	M7
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	46.17	0.14	46.31	74	-27.69	peak
4882.000	37.23	0.14	37.37	54	-16.63	AVG
7323.000	40.47	2.36	42.83	74	-31.17	peak
7323.000	31.07	2.36	33.43	54	-20.57	AVG
6	8		C I	0		
emark:	G	8		7 . 6		
ctor = Anter	nna Factor + Cable	e Loss – Pre-a	amplifier.			

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EUT	Tablet PC	Model Name	M7
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	48.23	0.22	48.45	74	-25.55	peak
4960.000	38.47	0.22	38.69	54	-15.31	AVG
7440.000	42.38	2.64	45.02	74	-28.98	peak
7440.000	31.96	2.64	34.6	54	-19.4	AVG
®		(C		
C	3			<u> </u>	8	
emark:	- 6	8		~G~	- 6	8
actor = Anter	na Factor + Cable	Loss - Pre-	amplifier.			- C

EUT Tablet PC **Model Name** M7 21.8°C Temperature **Relative Humidity** 58% Pressure 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 3 Vertical Antenna

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.29	0.22	46.51	74	-27.49	peak
4960.000	34.13	0.22	34.35	54	-19.65	AVG
7440.000	41.27	2.64	43.91	74	-30.09	peak
7440.000	30.54	2.64	33.18	54	-20.82	AVG
		-00-	3			GU
emark:			100	.C	0	
ictor = Anter	nna Factor + Cable	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.

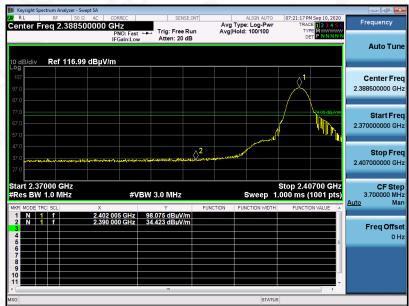
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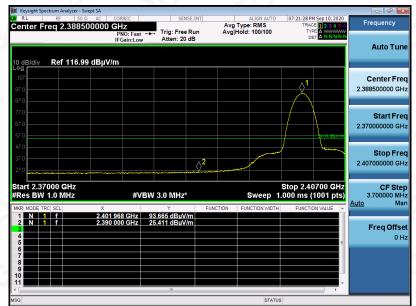
0	TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS					
	TILLER			N 4-7		

EUT	Tablet PC	Model Name	M7
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

PK



AV



RESULT: PASS

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