

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200711703V01

FCC REPORT

(Bluetooth)

Applicant: ROSA MARCELA CRUZ ESTRADA

Address of Applicant: 8A CALLE PONIENTE NÚMERO 5 ENTRE 2A AVENIDA SUR

Y 4A AVENIDA SUR, COLONIA CENTRO, TAPACHULA -

CHIAPAS MÉXICOCP 30700

Equipment Under Test (EUT)

Product Name: 3G MOBILE PHONE

Model No.: GENESIS 126

Trade mark: MOBILE KINGDOM

FCC ID: 2AW5V-G126

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 29 Jul., 2020

Date of Test: 29 Jul., to 15 Sep., 2020

Date of report issued: 29 Sep., 2020

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	16 Sep., 2020	Original
01	29 Sep., 2020	Update the 20dB Bandwidth limit on page 45

Tested by: Date: 29 Sep., 2020

Test Engineer

Reviewed by: Date: 29 Sep., 2020

Project Engineer



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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna Requirement	15.203 & 15.247 (b)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1)	Pass
Dwell Time	15.247 (a)(1)	Pass
Spurious Emission	15.205 & 15.209	Pass
Band Edge	15.247(d)	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02





5 General Information

5.1 Client Information

Applicant:	ROSA MARCELA CRUZ ESTRADA
Address:	8A CALLE PONIENTE NÚMERO 5 ENTRE 2A AVENIDA SUR Y 4A AVENIDA SUR, COLONIA CENTRO, TAPACHULA - CHIAPAS MÉXICOCP 30700
Manufacturer:	HUAWO TECHNOLOGY LIMITED
Address:	2A-07, Block AB, Tianjing Building, Tian'an Digital City, Futian District, Shenzhen, China

5.2 General Description of E.U.T.

	511511511 61 216111
Product Name:	3G MOBILE PHONE
Model No.:	GENESIS 126
Operation Frequency:	2402MHz~2480MHz
Transfer rate:	1/2/3 Mbits/s
Number of channel:	79
Modulation type:	GFSK, π/4-DQPSK, 8DPSK
Modulation technology:	FHSS
Antenna Type:	Internal Antenna
Antenna gain:	-0.12 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-2500mAh
AC adapter:	Input: AC110-240V, 50/60Hz, 0.2A
	Output: DC 5.0V, 1000mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel for GFSK, π/4-DQPSK, 8DPSK							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		
Remark: Channel 0, 39 &78 selected for GFSK, π/4-DQPSK and 8DPSK.							



5.3 Test environment and mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Modes:	
Non-hopping mode:	Keep the EUT in continuous transmitting mode with worst case data rate.
Hopping mode:	Keep the EUT in hopping mode.
Remark	GFSK (1 Mbps) is the worst case mode.

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Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.20 dB (k=2)

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-21-2020	07-20-2021
Loop Antenna	SCHWARZBECK	FMZB1519B	044	03-07-2020	03-06-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-20-2020	06-19-2021
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-18-2019	11-17-2020
EMI Test Software	AUDIX	E3	Version: 6.110919b)
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-18-2019	11-17-2020
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021
RF Switch Unit	MWRFTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTEST	MTS8200	Version: 2.0.0.0		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	06-18-2020	07-17-2021
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	\	/ersion: 6.110919l	0



6 Test results and measurement data

6.1 Antenna Requirement

Standard requirement: FCC Part 15 C Section 15.203 & 247(b)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The Bluetooth antenna is an Internal antenna which permanently attached, and the best case gain of the antenna is -0.12 dBi.



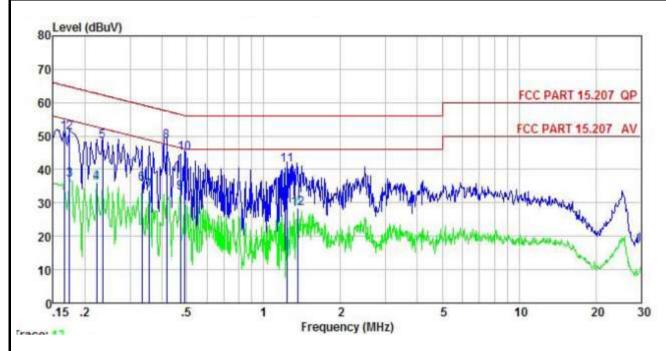
6.2 Conducted Emissions

Test Requirement:	FCC Part 15 C Section 15.	207	
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	Frequency range (MHz) Limit (dBuV)		
Littit.	· · · · · · · · · · · · · · · · · · ·	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logari	thm of the frequency.	
Test setup:	Reference PI	ane	
Tool management	AUX Equipment E.U.T Test table/Insulation plane Remark EUT Equipment Under Test LISN Line Impedence Stabilization Networtest table height=0.8m		
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement. 		
Test Instruments:	Refer to section 5.9 for det	ails	
Test mode:	Hopping mode		
Test results:	Pass		



Measurement Data:

Product name:	3G MOBILE PHONE	Product model:	GENESIS 126
Test by:	YT	Test mode:	BT Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



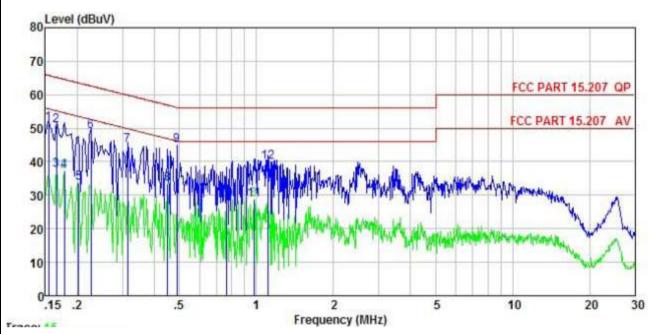
	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
-	MHz	₫BuV	dB	₫₿	<u>dB</u>	dBu∀	dBu√	dB	
1	0.166	41.00	-0.58	10.77	-0.09	51.10	65.16	-14.06	QP
2	0.174	40.91	-0.58	10.77	-0.11	50.99	64.77	-13.78	QP
3	0.174	26.79	-0.58	10.77	-0.11	36.87	54.77	-17.90	Average
4	0.222	26.07	-0.58	10.76	-0.19	36.06	52.74	-16.68	Average
2 3 4 5 6 7	0.234	38.57	-0.57	10.75	-0.20	48.55	62.30	-13.75	QP
6	0.334	25.56	-0.52	10.73	-0.01	35.76	49.35	-13.59	Average
7	0.358	23.40	-0.51	10.73	0.16	33.78	48.78	-15.00	Average
8	0.417	37.99	-0.47	10.73	0.28	48.53	57.51		
8	0.471	22.86	-0.44	10.75	-0.15	33.02	46.49		Average
10	0.489	34.72	-0.44	10.76	-0.26	44.78		-11.41	QP
11	1.229	30.73	-0.59	10.90	0.23	41.27	56.00	-14.73	QP
12	1.367	17.77	-0.57	10.91	0.11	28.22			Average

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



Product name:	3G MOBILE PHONE	Product model:	GENESIS 126		
Test by:	YT	Test mode:			
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral		
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%		



	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBu∇	₫B	dB	₫₿	dBu∜	dBu√	dB	
1	0.154	41.41	-0.69	10.78	0.01	51.51	65.78	-14.27	QP
2	0.166	40.55	-0.68	10.77	0.01	50.65	65.16	-14.51	QP
3	0.166	27.38	-0.68	10.77	0.01	37.48	55.16	-17.68	Average
4	0.178	27.19	-0.68	10.77	0.00	37.28	54.59	-17.31	Average
1 2 3 4 5 6 7 8 9	0.202	23.45	-0.67	10.76	0.00	33.54	53.54	-20.00	Average
6	0.226	38.94	-0.67	10.75	0.00	49.02	62.61	-13.59	QP
7	0.313	34.71	-0.66	10.74	0.00	44.79	59.88	-15.09	QP
8	0.449	23.15	-0.64	10.74	-0.01	33.24	46.89	-13.65	Average
9	0.489	34.61	-0.65	10.76	0.02	44.74		-11.45	
10	0.763	18.45	-0.65	10.80	0.05	28.65	46.00	-17.35	Average
11	0.979	18.34	-0.68	10.86	0.08	28.60	46.00	-17.40	Average
12	1.111	29.68	-0.68	10.88	0.09	39.97		-16.03	

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.





6.3 Conducted Output Power

Test Requirement:	FCC Part 15 C Section 15.247 (b)(1)					
Receiver setup:	RBW=1MHz, VBW=3MHz, Detector=Peak (If 20dB BW ≤1 MHz) RBW=2MHz, VBW=6MHz, Detector=Peak (If 20dB BW > 1 MHz and < 3MHz)					
Limit:	For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Non-hopping mode					
Test results:	Pass					

Measurement Data: Refer to Appendix A - BT





6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)						
Receiver setup:	DH1: RBW=15 kHz, VBW=47 kHz, detector=Peak 2DH1&3DH: RBW=20 kHz, VBW=62 kHz, detector=Peak						
Limit:	N/A						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.9 for details						
Test mode:	Non-hopping mode						
Test results:	Pass						

Measurement Data: Refer to Appendix A - BT





6.5 Carrier Frequencies Separation

-							
Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)						
Receiver setup:	RBW=300 kHz, VBW=1 MHz, detector=Peak						
Limit:	a) 0.025MHz or the 20dB bandwidth (whichever is greater) b) 0.025MHz or two-thirds of the 20dB bandwidth (whichever is greater)						
Test setup:	Spectrum Analyzer Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.9 for details						
Test mode:	Hopping mode						
Test results:	Pass						

Measurement Data: Refer to Appendix A - BT





6.6 Hopping Channel Number

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1) RBW=100 kHz, VBW=300 kHz, Center Frequency=2441MHz,						
Receiver setup:							
	Span= 100MHz, Detector=Peak						
Limit:	15 channels						
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 5.9 for details						
Test mode:	Hopping mode						
Test results:	Pass						

Measurement Data: Refer to Appendix A - BT





6.7 Dwell Time

Test Requirement:	FCC Part 15 C Section 15.247 (a)(1)					
Receiver setup:	RBW=1 MHz, VBW=1 MHz, Span=0 Hz, Detector=Peak					
Limit:	0.4 Second					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Hopping mode					
Test results:	Pass					

Measurement Data: Refer to Appendix A - BT



6.8 Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part 15 C Section 15.247 (a)(1) requirement:

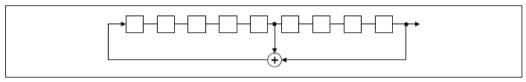
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

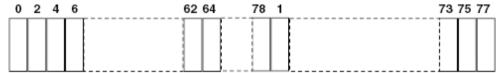
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 29-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.





6.9 Band Edge

6.9.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
Receiver setup:	RBW=100 kHz, VBW=300 kHz, Detector=Peak					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.9 for details					
Test mode:	Non-hopping mode and hopping mode					
Test results:	Pass					

Measurement Data: Refer to Appendix A - BT



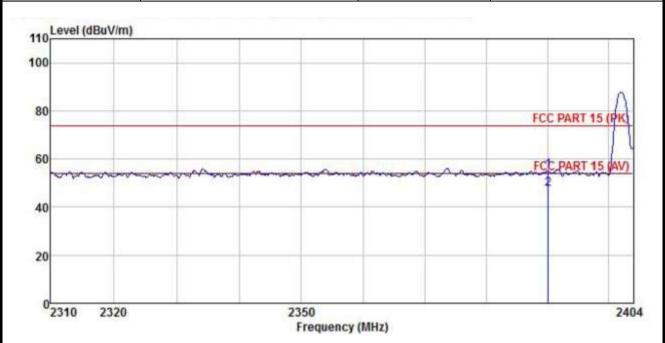
6.9.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 15.20	09 a	and 15.205			
Test Frequency Range:	2310 MHz to 23	90 MHz and	248	83.5 MHz to 25	500 N	lHz	
Test Distance:	3m						
Receiver setup:	Frequency	Detector		RBW	V	BW	Remark
	Above 1GHz	Peak		1MHz	31	ИНz	Peak Value
	Above 1G112	RMS		1MHz	3MHz		Average Value
Limit:	Frequenc	cy I	Lim	it (dBuV/m @3	3m)		Remark
	Above 1G	Hz —		54.00		Av	rerage Value
				74.00		F	Peak Value
Test setup:	Horn Antenna Tower Artenna Tower						
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or 						
Test Instruments:	Refer to section	5.9 for detai	ils	·			
Test mode:	Non-hopping me	ode					
Test results:	Passed						



GFSK Mode:

Product Name:	roduct Name: 3G MOBILE PHONE Product Model:			
Test By:	YT	Test mode:	DH1 Tx mode	
Test Channel:	Lowest channel	Polarization:	Vertical	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%	



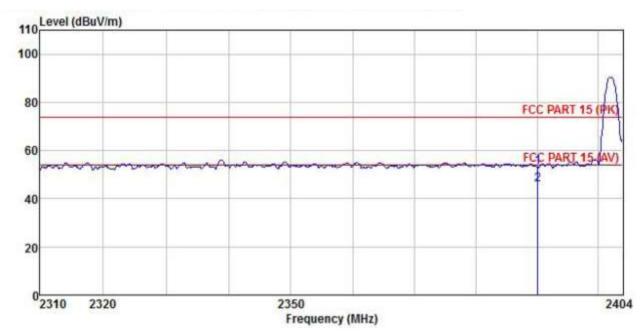
		ReadAntenna		Cable	Aux	Preamp		Limit Over			
	Freq	Level	Factor	Loss	Factor	Factor	Level	Line	Limit	Remark	
	MHz	dBu∜	$\overline{dB/m}$	<u>dB</u>	₫B	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>		
1 2	2390.000 2390.000										

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126
Test By:	YT	Test mode:	DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

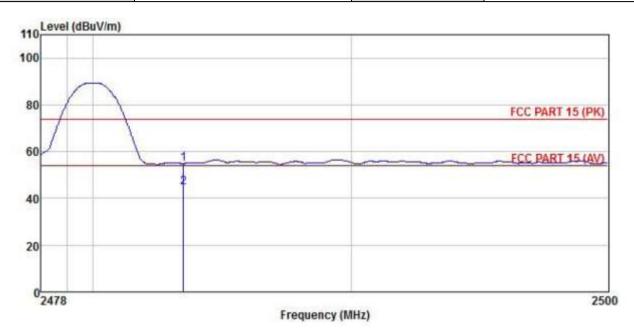


	Freq	Read Level	Antenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	dB/m	₫B	₫₿	₫₿	dBuV/m	dBu∜/m	₫B	
1 2	2390.000 2390.000									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126
Test By:	YT	Test mode:	DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%

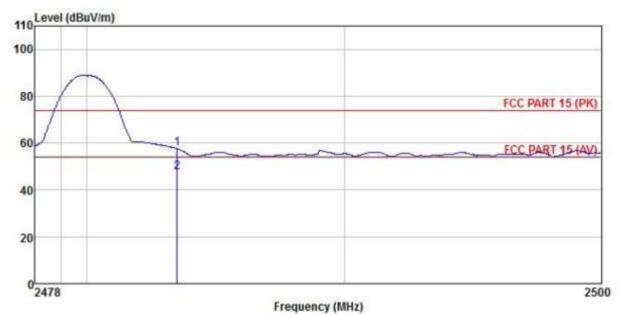


	Freq			eadAntenna Cable Aux Preamp vel Factor Loss Factor Factor							
	MHz	dBuV	dB/m	₫B	₫B	dB	dBuV/m	dBuV/m dB			
1 2	2483.500 2483.500										

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126
Test By:	YT	Test mode:	DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



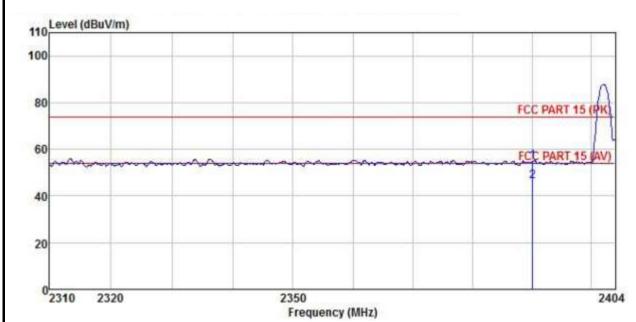
	R Freq Le		Antenna Factor					Limit Line		
	MHz	dBu₹	<u>dB</u> /π	₫B	<u>dB</u>	dB	dBuV/m	dBuV/m	<u>dB</u>	
2	2483.500 2483.500					0.00 0.00				

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



π/4-DQPSK mode

Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126
Test By:	YT	Test mode:	2DH1 Tx mode
Test Channel:	Lowest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	ReadAntenna Freq Level Factor					Level	Limit Line	Over Limit		
	MHz	dBu∜	dB/m	₫B	dB	₫B	dBuV/m	dBuV/m	₫B	
2	2390,000 2390,000						54.68 46.21			

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.

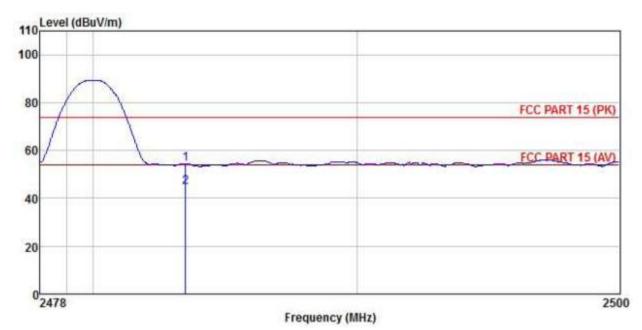


Product Name:		3G	3G MOBILE PHONE					Model:	G	GENESIS 126			
st B	y:	YT					Test mo	de:	2[DH1 Tx mod	le		
st C	hannel:	Lo	west chan	nel			Polarization:			orizontal			
st V	oltage:	AC	120/60Hz	Z			Environ	ment:	Temp: 24°C		Huni:	Huni: 57%	
- 1	Level (dBuV/r	n)											
	Level (abavii												
100													
12.97												Λ	
80										FCC PA	RT 15	(PK)	
04240												11	
60		acres acres	-		·			~~~		FCC PA	ART 15	(AV)	
0.005								1000000		7			
40												П	
330													
20													
122													
0	2310 2320	0		-	2350					- 1.		2404	
					Fre	quency (MHZ)						
	Freq		Antenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark			
	MHz	dBu∜	dB/m	₫B	₫₿	₫₿	dBuV/m	dBuV/m	₫₿				
1 2	2390.000 2390.000	21.44 13.43	27.03 27.03	4.28 4.28	1.68 1.68	0.00 0.00	54.43 46.42	74.00 54.00	-19.57 -7.58	Peak Average			

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126
Test By:	YT	Test mode:	2DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%

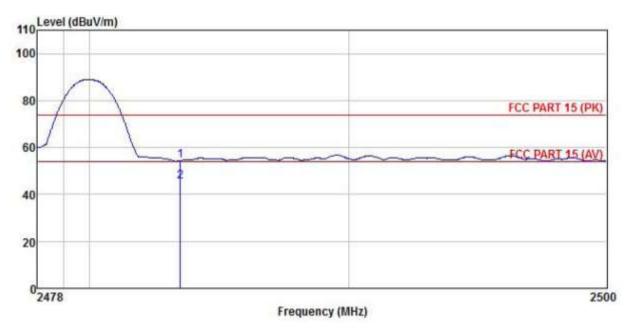


	Freq			ReadAntenna Cable Aux Preamp Freq Level Factor Loss Factor Factor						Limit Line		
	MHz	dBu∜	dB/m	dB	dB	<u>dB</u>	dBuV/m	dBuV/m	−−−dB			
1 2	2483.500 2483.500							74.00 54.00				

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126
Test By:	YT	Test mode:	2DH1 Tx mode
Test Channel:	Highest channel	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



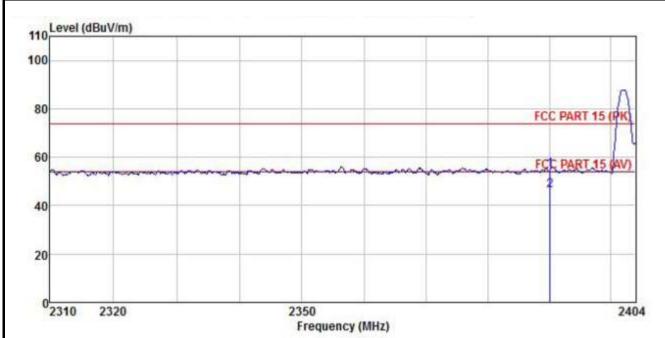
	Freq		Antenna Factor							
	MHz	dBu₹	$\overline{dB/m}$	₫B	₫₿	₫B	dBu√/m	dBuV/m	dB	
1 2	2483.500 2483.500							74.00 54.00		

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



8DPSK mode

Product Name: 3G MOBILE PHONE		Product Model:	GENESIS 126		
Test By:	YT Test mode: 3DH1 Tx mode		3DH1 Tx mode		
Test Channel:	Lowest channel	Polarization: Vertical			
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



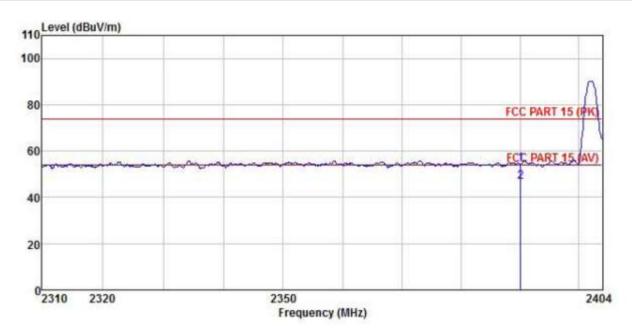
	Freq	Read Level	Antenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	$\overline{dB/m}$	₫₿	₫B	dB	$\overline{dBuV/n}$	dBuV/m	<u>d</u> B	
1 2	2390.000 2390.000									

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126	
Test By:	YT	Test mode:	3DH1 Tx mode	
Test Channel:	Lowest channel	Polarization:	Horizontal	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%	

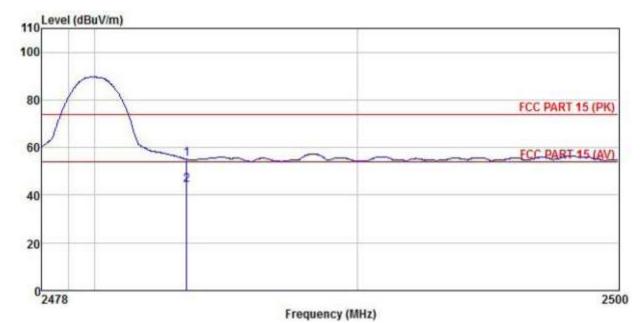


	Freq		Antenna Factor							
	MHz	MHz dBuV dB	$\overline{}\overline{dB}/\overline{m}$	dB	dB	dB dBuV/ı		dBuV/m	dB	
1 2	2390.000 2390.000									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126	
Test By:	YT	Test mode:	3DH1 Tx mode	
Test Channel:	Highest channel	Polarization:	Vertical	
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%	

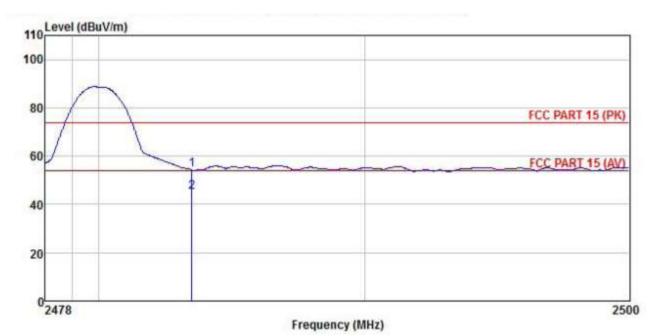


	Freq		Antenna Factor					Limit Line		Remark
	MHz	dBu∜	dB/m	<u>dB</u>	dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
1 2	2483,500 2483,500									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Product Name: 3G MOBILE PHONE		Product Model:	GENESIS 126		
Test By:	YT	Test mode:	3DH1 Tx mode		
Test Channel:	Highest channel	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%		



	Freq	Read Level	Antenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	dB/m	₫B	₫B	−−−dB	dBuV/m	dBuV/m	−−−dB	
2	2483.500 2483.500									

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.





6.10 Spurious Emission

6.10.1 Conducted Emission Method

Test Requirement: FCC Part 15 C Section 15.247 (d)				
Limit: In any 100 kHz bandwidth outside the frequency band in which the spectrum intentional radiator is operating, the radio frequency por produced by the intentional radiator shall be at least 20 dB below 100 kHz bandwidth within the band that contains the highest lever desired power, based on either an RF conducted or a radiated meaning the statement of the				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.9 for details			
Test mode:	Non-hopping mode			
Test results:	Pass			

Measurement Data: Refer to Appendix A - BT



6.10.2 Radiated Emission Method

6.10.2 Radiated Emission Test Requirement:	FCC Part 15 C S	Section 15 200	1				
Test Frequency Range:	9 kHz to 25 GHz						
Test Distance:		-					
	3m	Detector	RBW	VBW	/ Remark		
Receiver setup:	Frequency	Detector					
	30MHz-1GHz	Quasi-peak	120kHz 1MHz	300kH			
	Above 1GHz	Peak		3MHz			
Limit:	Frequenc						
LIIIIIL.	30MHz-88N	·	40.0	@ 3111)	Remark Quasi-peak Value		
	88MHz-216		43.5		Quasi-peak Value		
	216MHz-960		46.0		Quasi-peak Value		
	960MHz-10		54.0		Quasi-peak Value		
	3001411 12 10	J1 12	54.0		Average Value		
	Above 1G	Hz —	74.0		Peak Value		
Test setup:	Below 1GHz		74.0		1 can value		
	7777777	ble	Sm Sground. Reference Plane	Horn Antenna	RF Test Receiver Antenna Tower		
	Test Receiver Amplifier Controller						
				1/IL			
Test Procedure:	The EUT was placed on the top of a rotating table 0.8m(below 1GHz) /1.5m(above 1GHz) above the ground at a 3 meter chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving						
					able-height antenna		





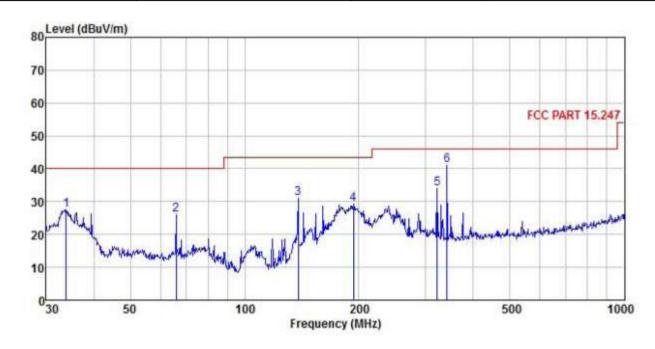
	 tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the
	 maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Non-hopping mode
Test results:	Pass
Remark:	 Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case. 9 kHz to 30 MHz is noise floor and lower than the limit 20dB, so only shows the data of above 30MHz in this report.



Measurement Data (worst case):

Below 1GHz:

Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126		
Test By:	YT	Test mode:	BT Tx mode		
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



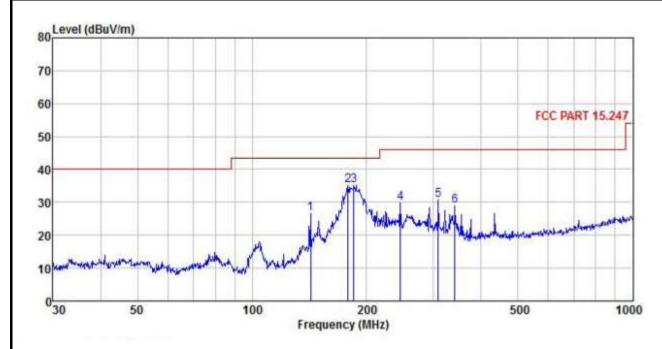
	Freq		ReadAntenna evel Factor					Limit Line		
	MHz	dBu∀	dB/m	₫₿	dB	<u>dB</u>	dBuV/m	dBuV/m	dB	
1	33.917	44.59	12.44	0.35	0.00	29.96	27.42	40.00	-12.58	QP
2	66.034	45.35		0.43		29.75	25.90	40.00	-14.10	QP
3	138.387	45.83	13.71	0.60	0.00	29.28	30.86	43.50	-12.64	QP
4	193.095	39.65	17.65	0.71	0.00	28.88	29.13	43.50	-14.37	QP
5	321.061	42.91	18.74	0.89	0.00	28.50	34.04	46.00	-11.96	QP
6	340.782	49.73	18.78	0.92	0.00	28.54	40.89	46.00	-5.11	QP

Remark

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Product Name:	3G MOBILE PHONE	Product Model:	GENESIS 126		
Test By:	YT	Test mode:	BT Tx mode		
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal		
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%		



	Freq	Readântenna Cabl Level Factor Los						Limit Line		Remark
	MHz	dBuV	dBuV dB/m	₫B	B dB	₫B	dBuV/m	dBuV/m	₫B	
1	142.324	41.27	13.85	0.60	0.00	29.26	26.46	43.50	-17.04	QP
2	178.758	46.56	16.88	0.68	0.00	28.98	35.14	43.50	-8.36	QP
3	185.138	46.11	17.20	0.69	0.00	28.93	35.07	43.50	-8.43	QP
4	245.090	39.03	18.48	0.77	0.00	28.57	29.71	46.00	-16.29	QP
5	308.913	39.60	18.72	0.87	0.00	28.47	30.72	46.00	-15.28	QP
6	340.782	37.74	18.78	0.92	0.00	28.54	28.90	46.00	-17.10	QP

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.
- 3. The Aux Factor is a notch filter switch box loss, this item is not used.



Above 1GHz (GFSK is worst case):

RDOVE TOTIZ (OF SK IS WOTST Case).										
			Te	est channe	el: Lowest cl	hannel				
				Detecto	r: Peak Valu	ue				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	49.62	30.78	6.80	2.44	41.81	47.83	74.00	-26.17	Vertical	
4804.00	48.51	30.78	6.80	2.44	41.81	46.72	74.00	-27.28	Horizontal	
				Detector:	Average Va	alue				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4804.00	40.19	30.78	6.80	2.44	41.81	38.40	54.00	-15.60	Vertical	
4804.00	39.78	30.78	6.80	2.44	41.81	37.99	54.00	-16.01	Horizontal	
Total and Artifle I										
Test channel: Middle channel										
		l <u>.</u>			r: Peak Valı	ue	I	T _		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4882.00	50.33	30.96	6.86	2.47	41.84	48.78	74.00	-25.22	Vertical	
4882.00	49.73	30.96	6.86	2.47	41.84	48.18	74.00	-25.82	Horizontal	
				Detector:	Average Va	alue				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4882.00	40.15	30.96	6.86	2.47	41.84	38.60	54.00	-15.40	Vertical	
4882.00	41.16	30.96	6.86	2.47	41.84	39.61	54.00	-14.39	Horizontal	
			Te	est channe	el: Highest c	hannel				
				Detecto	r: Peak Val	ue				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
4960.00	50.73	31.11	6.91	2.49	41.87	49.37	74.00	-24.63	Vertical	
1000				l		l	l	l		

	Detector: Peak Value										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	50.73	31.11	6.91	2.49	41.87	49.37	74.00	-24.63	Vertical		
4960.00	49.92	31.11	6.91	2.49	41.87	48.56	74.00	-25.44	Horizontal		
				Detector:	Average Va	alue					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
4960.00	40.15	31.11	6.91	2.49	41.87	38.79	54.00	-15.21	Vertical		
4960.00	41.18	31.11	6.91	2.49	41.87	39.82	54.00	-14.18	Horizontal		

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss + Aux Factor - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Appendix A - BT

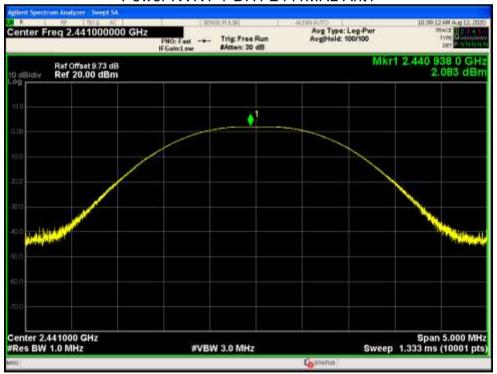
Maximum C	onducted	d Output Power	•					
Condition	Mode	Frequency	Antenna	Conducted	Duty	Total	Limit	Verdict
		(MHz)		Power	Factor	Power	(dBm)	
				(dBm)	(dB)	(dBm)		
NVNT	1-	2402	Ant1	1.121	0	1.121	21	Pass
	DH1							
NVNT	1-	2441	Ant1	2.083	0	2.083	21	Pass
	DH1							
NVNT	1-	2480	Ant1	2.932	0	2.932	21	Pass
	DH1							
NVNT	2-	2402	Ant1	1.004	0	1.004	21	Pass
	DH1							
NVNT	2-	2441	Ant1	1.97	0	1.97	21	Pass
	DH1							
NVNT	2-	2480	Ant1	2.78	0	2.78	21	Pass
	DH1							
NVNT	3-	2402	Ant1	1.416	0	1.416	21	Pass
	DH1							
NVNT	3-	2441	Ant1	2.432	0	2.432	21	Pass
	DH1							
NVNT	3-	2480	Ant1	3.202	0	3.202	21	Pass
	DH1							



Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1





Power NVNT 1-DH1 2480MHz Ant1



Power NVNT 2-DH1 2402MHz Ant1





Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1

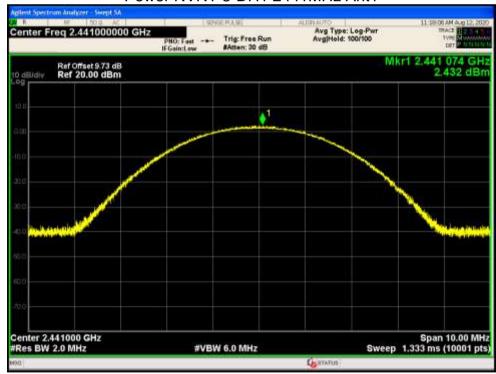




Power NVNT 3-DH1 2402MHz Ant1



Power NVNT 3-DH1 2441MHz Ant1









-20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1- DH1	2402	Ant1	(MHz) 0.87	N/A	Pass
NVNT	1- DH1	2441	Ant1	0.867	N/A	Pass
NVNT	1- DH1	2480	Ant1	0.869	N/A	Pass
NVNT	2- DH1	2402	Ant1	1.253	N/A	Pass
NVNT	2- DH1	2441	Ant1	1.202	N/A	Pass
NVNT	2- DH1	2480	Ant1	1.248	N/A	Pass
NVNT	3- DH1	2402	Ant1	1.206	N/A	Pass
NVNT	3- DH1	2441	Ant1	1.204	N/A	Pass
NVNT	3- DH1	2480	Ant1	1.214	N/A	Pass



-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1





-20dB Bandwidth NVNT 3-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH1 2441MHz Ant1







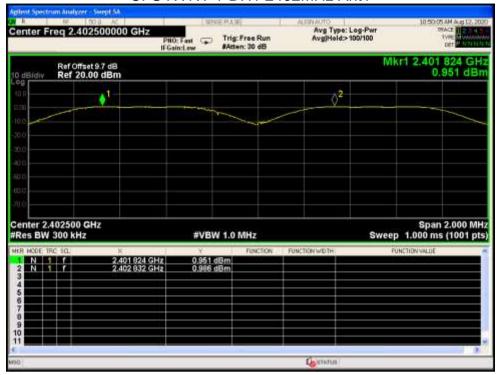


Carrier Frequencies Separation

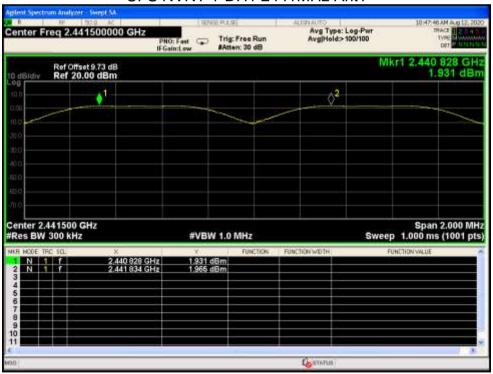
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1- DH1	Ant1	2401.824	2402.832	1.008	0.87	Pass
NVNT	1- DH1	Ant1	2440.828	2441.834	1.006	0.867	Pass
NVNT	1- DH1	Ant1	2478.83	2479.834	1.004	0.869	Pass
NVNT	2- DH1	Ant1	2402.14	2403.156	1.016	0.835	Pass
NVNT	2- DH1	Ant1	2441.144	2442.146	1.002	0.801	Pass
NVNT	2- DH1	Ant1	2478.828	2479.828	1	0.832	Pass
NVNT	3- DH1	Ant1	2401.83	2402.83	1	0.804	Pass
NVNT	3- DH1	Ant1	2440.822	2441.828	1.006	0.803	Pass
NVNT	3- DH1	Ant1	2478.826	2479.836	1.01	0.809	Pass



CFS NVNT 1-DH1 2402MHz Ant1

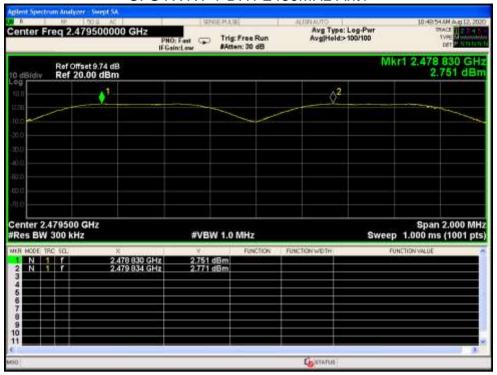


CFS NVNT 1-DH1 2441MHz Ant1





CFS NVNT 1-DH1 2480MHz Ant1



CFS NVNT 2-DH1 2402MHz Ant1





CFS NVNT 2-DH1 2441MHz Ant1



CFS NVNT 2-DH1 2480MHz Ant1





CFS NVNT 3-DH1 2402MHz Ant1

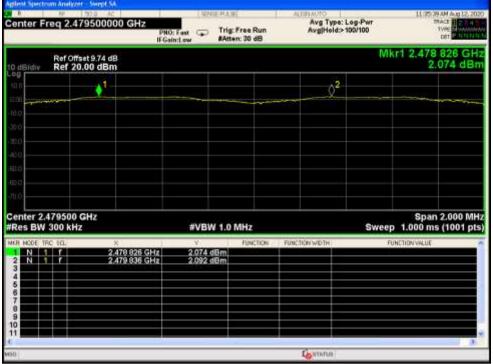


CFS NVNT 3-DH1 2441MHz Ant1







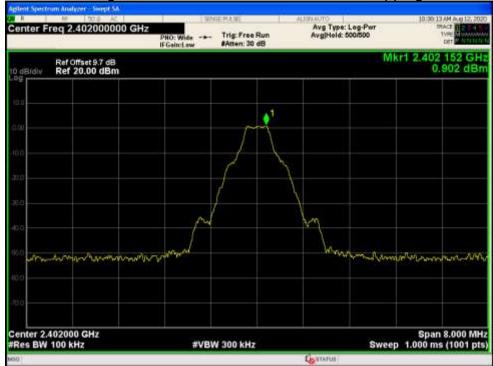


Band Edge

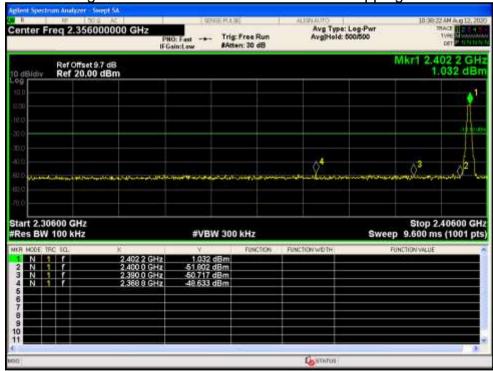
Band Edge							
Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-	2402	Ant1	No-Hopping -49.53		-20	Pass
	DH1						
NVNT	1-	2480	Ant1	No-Hopping	-51.64	-20	Pass
	DH1						
NVNT	2-	2402	Ant1	No-Hopping	-48.91	-20	Pass
	DH1						
NVNT	2-	2480	Ant1	No-Hopping	-50.43	-20	Pass
	DH1						
NVNT	3-	2402	Ant1	No-Hopping	-49.51	-20	Pass
	DH1						
NVNT	3-	2480	Ant1	No-Hopping	-50.32	-20	Pass
	DH1						







Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

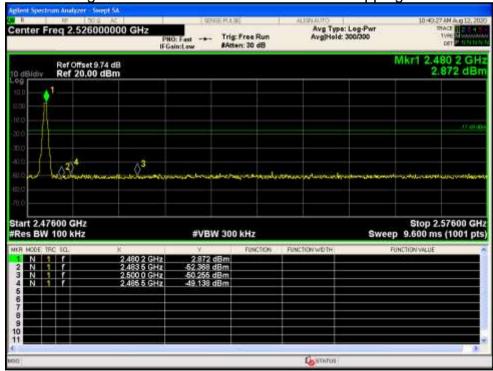








Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission

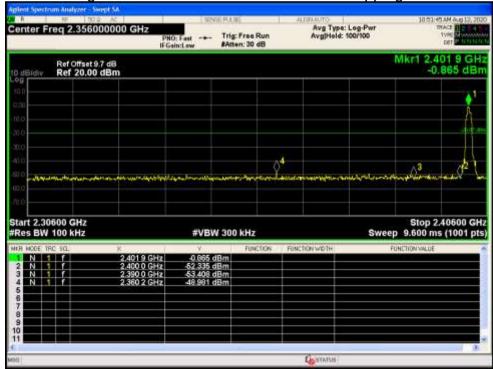








Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission

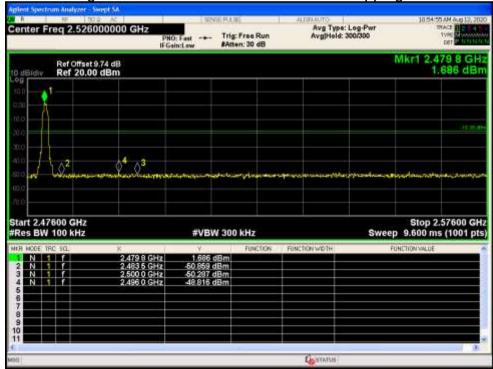








Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission

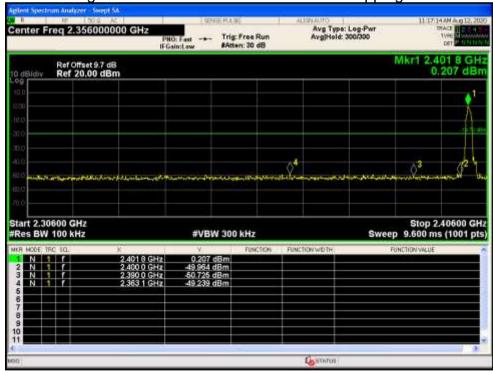








Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission

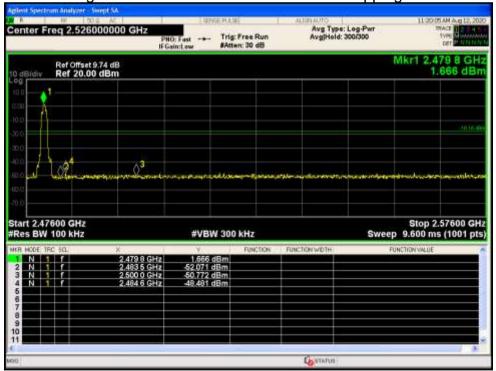








Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission



Band Edge(Hopping)

- aa a.g. (
Condition	Mode	Frequency	Antenna	Hopping	Max Value	Limit	Verdict
		(MHz)		Mode	(dBc)	(dBc)	
NVNT	1-	2402	Ant1	Hopping	-48.11	-20	Pass
	DH1						
NVNT	1-	2480	Ant1	Hopping	-51.24	-20	Pass



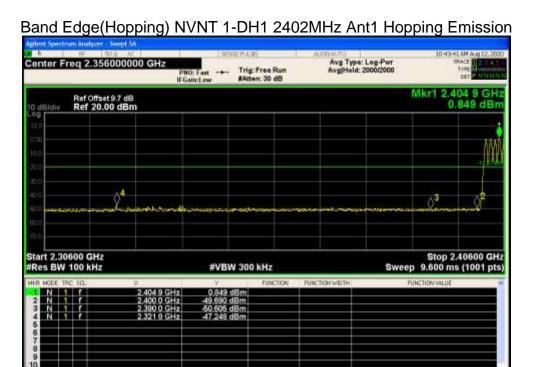


	DH1						
NVNT	2-	2402	Ant1	Hopping	-48.69	-20	Pass
	DH1						
NVNT	2-	2480	Ant1	Hopping	-49.29	-20	Pass
	DH1						
NVNT	3-	2402	Ant1	Hopping	-48.19	-20	Pass
	DH1						
NVNT	3-	2480	Ant1	Hopping	-49.94	-20	Pass
	DH1						





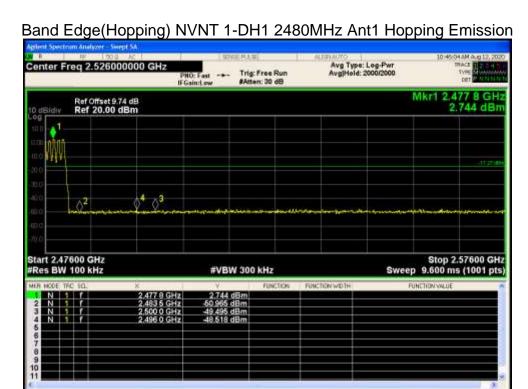








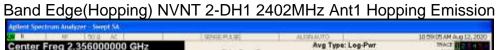


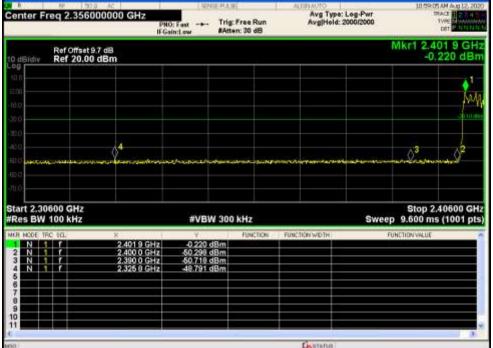








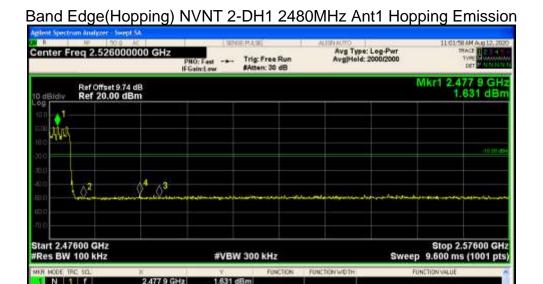




Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



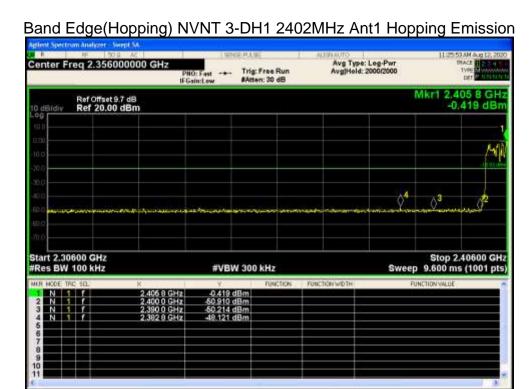








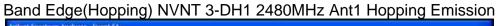


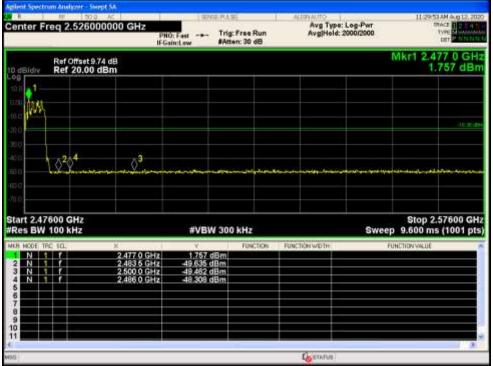










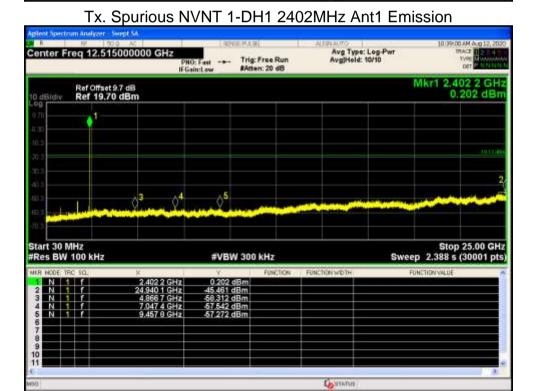


Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-46.33	-20	Pass
NVNT	1-DH1	2441	Ant1	-48.1	-20	Pass
NVNT	1-DH1	2480	Ant1	-48.85	-20	Pass
NVNT	2-DH1	2402	Ant1	-46.58	-20	Pass
NVNT	2-DH1	2441	Ant1	-47.09	-20	Pass
NVNT	2-DH1	2480	Ant1	-47.83	-20	Pass
NVNT	3-DH1	2402	Ant1	-44.55	-20	Pass
NVNT	3-DH1	2441	Ant1	-47.58	-20	Pass
NVNT	3-DH1	2480	Ant1	-47.13	-20	Pass

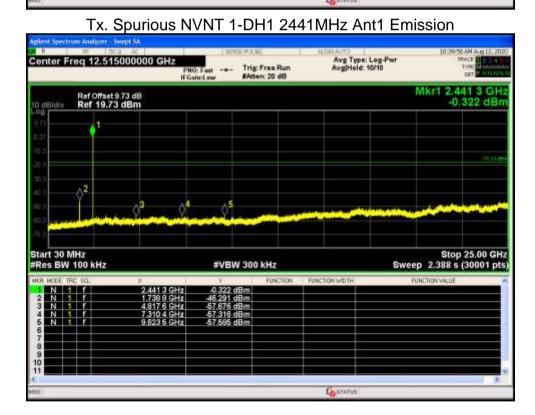








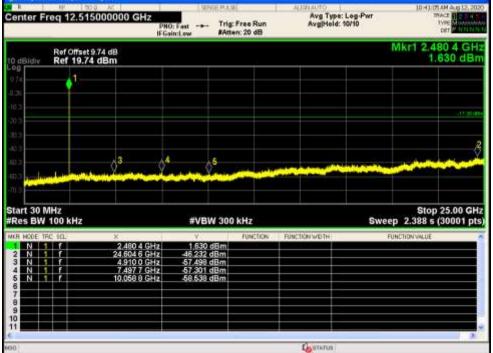








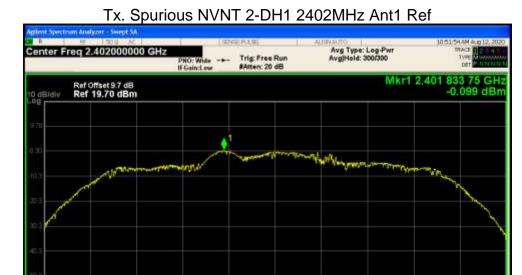




Span 1.500 MHz Sweep 2.000 ms (30001 pts)

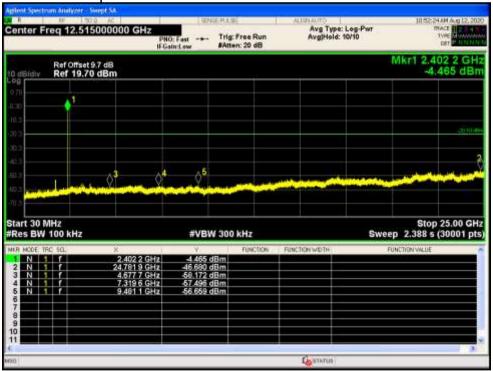


Center 2.4020000 GHz #Res BW 100 kHz



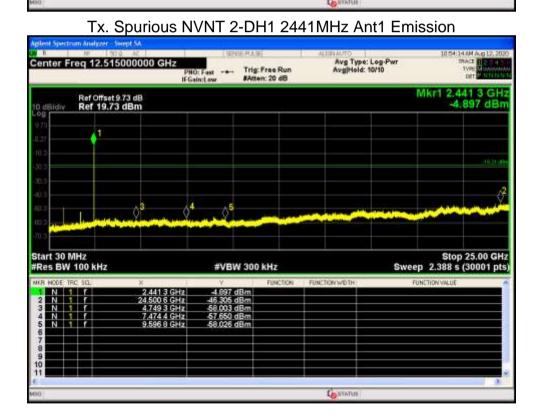


#VBW 300 kHz





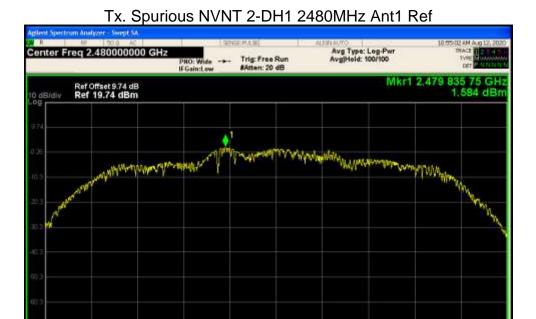




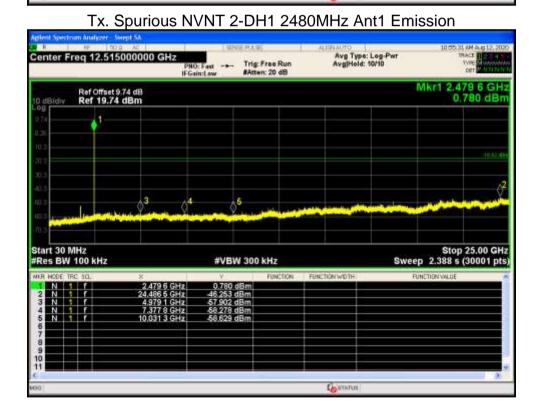
Span 1.500 MHz Sweep 2.000 ms (30001 pts)



Center 2.4800000 GHz #Res BW 100 kHz



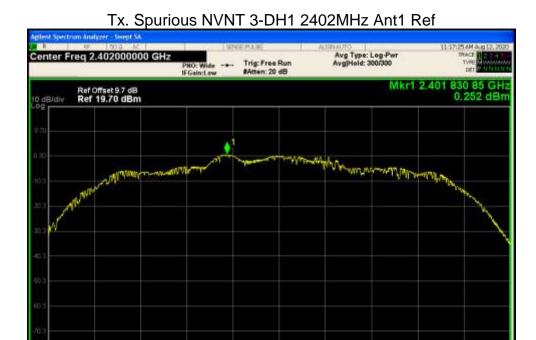
#VBW 300 kHz



Span 1.500 MHz Sweep 2.000 ms (30001 pts)

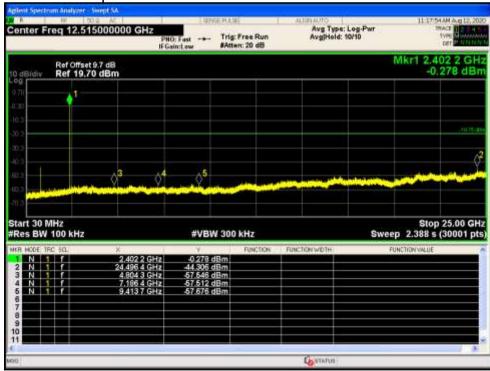


Center 2.4020000 GHz #Res BW 100 kHz



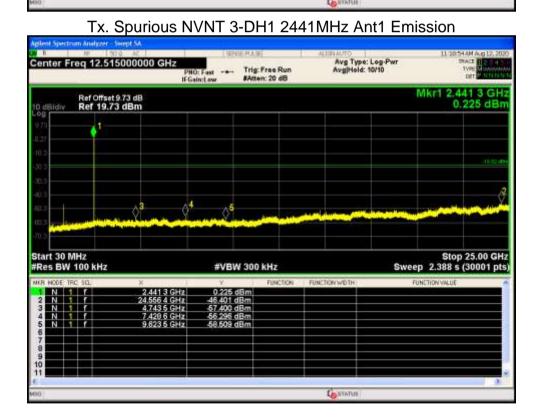


#VBW 300 kHz





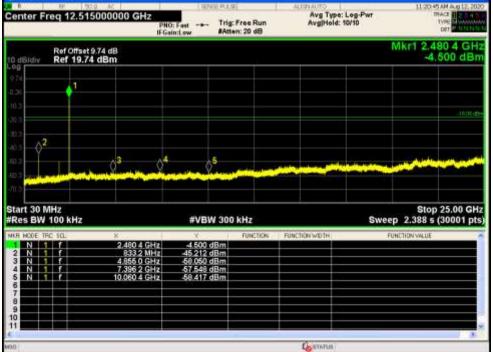








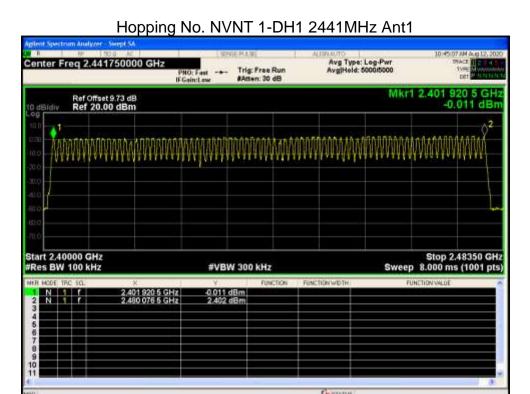


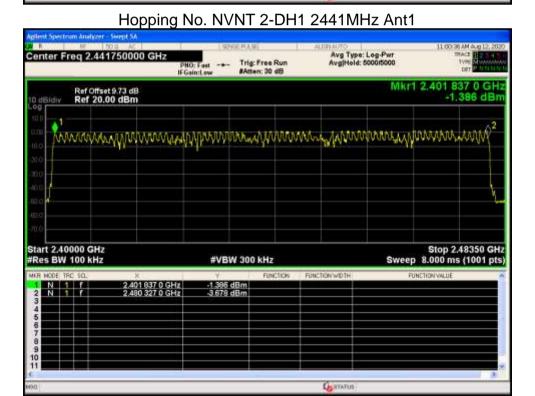


Number of Hopping Channel

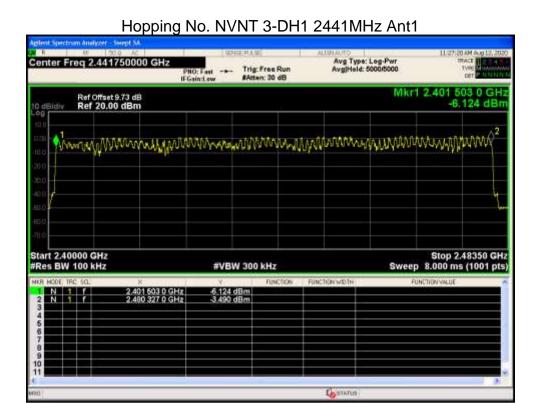
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass
NVNT	3-DH1	Ant1	79	15	Pass









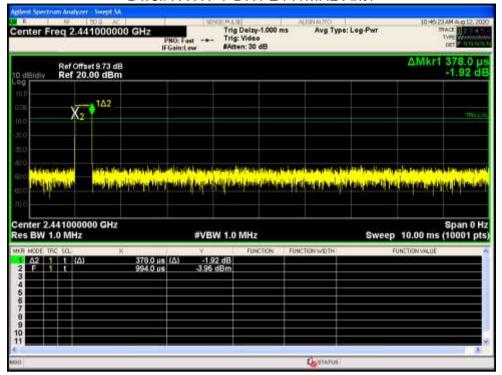


Dwell Time

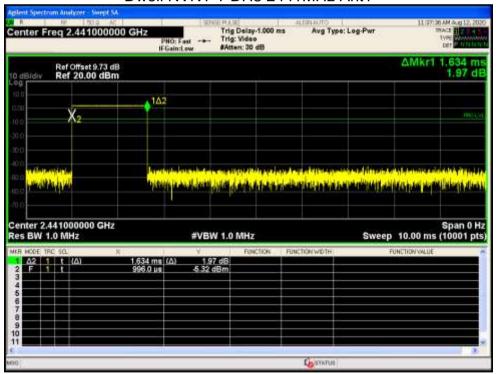
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Period Time (ms)	Limit (ms)	Verdict
NVNT	1- DH1	2441	Ant1	0.378	120.96	31600	400	Pass
NVNT	1- DH3	2441	Ant1	1.634	261.44	31600	400	Pass
NVNT	1- DH5	2441	Ant1	2.882	307.413	31600	400	Pass
NVNT	2- DH1	2441	Ant1	0.384	122.88	31600	400	Pass
NVNT	2- DH3	2441	Ant1	1.637	261.92	31600	400	Pass
NVNT	2- DH5	2441	Ant1	2.885	307.733	31600	400	Pass
NVNT	3- DH1	2441	Ant1	0.386	123.52	31600	400	Pass
NVNT	3- DH3	2441	Ant1	1.636	261.76	31600	400	Pass
NVNT	3- DH5	2441	Ant1	2.887	307.947	31600	400	Pass



Dwell NVNT 1-DH1 2441MHz Ant1

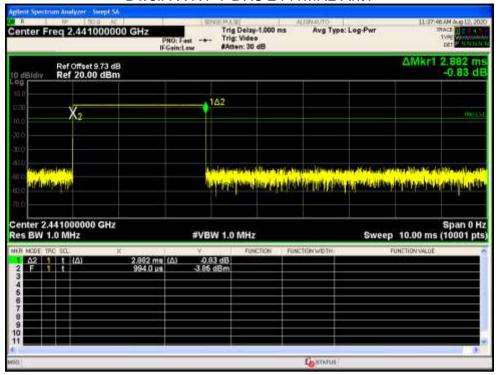


Dwell NVNT 1-DH3 2441MHz Ant1

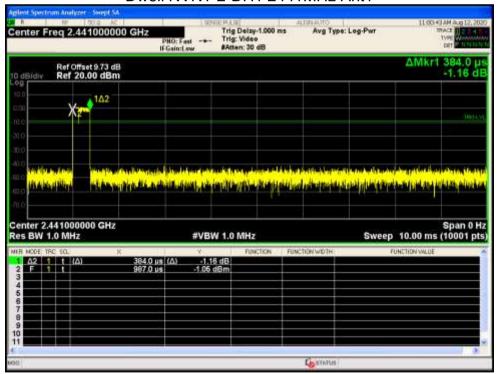




Dwell NVNT 1-DH5 2441MHz Ant1

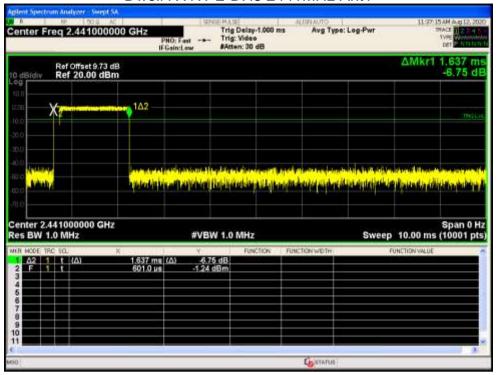


Dwell NVNT 2-DH1 2441MHz Ant1

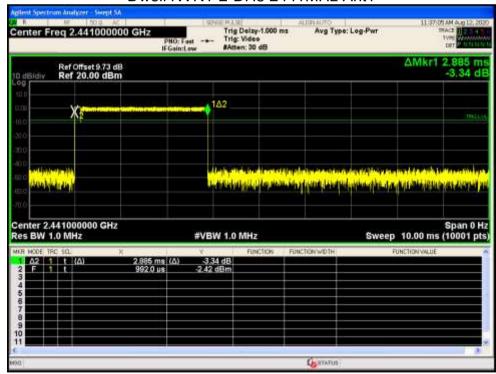




Dwell NVNT 2-DH3 2441MHz Ant1

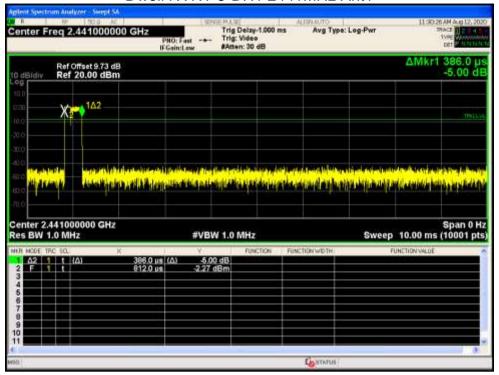


Dwell NVNT 2-DH5 2441MHz Ant1

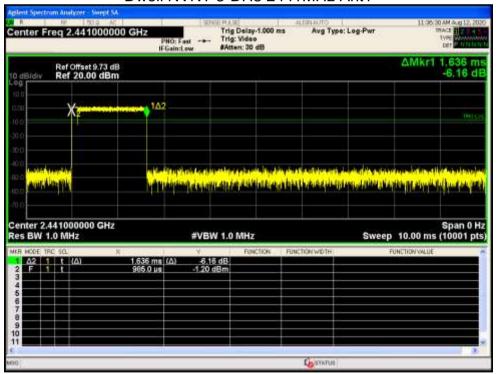




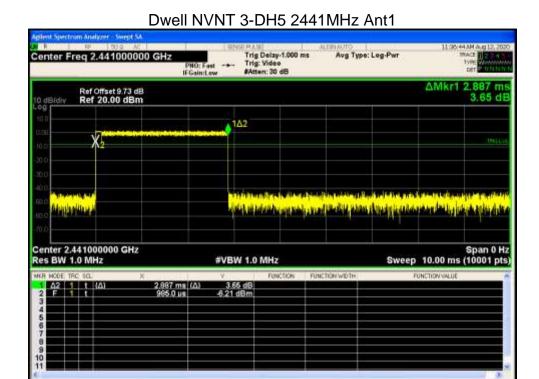
Dwell NVNT 3-DH1 2441MHz Ant1



Dwell NVNT 3-DH3 2441MHz Ant1







-----End of report-----