

🧲 Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE160605502

FCC REPORT

(BLE)

Applicant: NEXUS TELECOM SERVICES (HK) LIMITED

Address of Applicant: R112, 11/F Hollywood Plaza, Mangkok, Kowloon Hong Kong

Equipment Under Test (EUT)

Product Name: MOBILE PHONE

Model No.: GO1402

Trade mark: GOMOBILE

FCC ID: 2AHDFGO1402

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

Date of sample receipt: 23 Jun., 2016

Date of Test: 23 Jun., to 27 Jul., 2016

Date of report issued: 27 Jul., 2016

Test Result: PASS *

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





2 Version

Version No.	Date	Description
00	27 Jul., 2016	Original

Tested by: Date: 27 Jul., 2016

Test Engineer

Reviewed by: Date: 27 Jul., 2016

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.



5 General Information

5.1 Client Information

Applicant:	NEXUS TELECOM SERVICES (HK) LIMITED
Address of Applicant:	R112, 11/F Hollywood Plaza, Mangkok, Kowloon Hong Kong
Manufacturer	United Creation Technology Co., Ltd
Address of Manufacturer:	Room 201, Block A, Science & Technology Building Phase-II, Nanhai Av. 1057, Nanshan, Shenzhen, China
Factory:	HuiZhou YouLianXing Electronic Science & Technology Co., Ltd
Address of Factory:	F2, Standard Fctory Building, No 3, Qunle Road, Ma an Town, Huicheng District, Huizhou City 516057, China

5.2 General Description of E.U.T.

Product Name:	MOBILE PHONE
Model No.:	GO1402
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	2.3 dBi
Power supply:	Rechargeable Li-ion Battery DC3.8V-1400mAh
AC adapter:	Model: GO1402
	Input: AC100-240V 50/60Hz 0.12A
	Output: DC 5.0V, 0.5A



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz



Report No: CCISE160605502

5.3 Test environment and mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	54 % RH			
Atmospheric Pressure:	1010 mbar			
Test mode:				
Operation mode Keep the EUT in continuous transmitting with modulation				

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. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Measurement Uncertainty

Items	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.5 Laboratory Facility

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

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

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.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



5.7 Test Instruments list

Rad	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017	
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-25-2016	03-25-2017	
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-25-2016	03-25-2017	
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2016	03-31-2017	
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2016	03-31-2017	
6	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	04-01-2016	03-31-2017	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	04-01-2016	03-31-2017	
8	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2016	03-28-2017	
9	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2016	03-28-2017	
10	Loop antenna	Laplace instrument	RF300	EMC0701	04-01-2016	03-31-2017	
11	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

Con	Conducted Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-24-2016	03-24-2017
3	LISN	CHASE	MN2050D	CCIS0074	03-26-2016	03-26-2017
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2016	03-31-2017
5	EMI Test Software	AUDIX	E3	N/A	N/A	N/A



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Part 15 C Section 15.203 /247(c)

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(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The BLE antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 2.3 dBi.







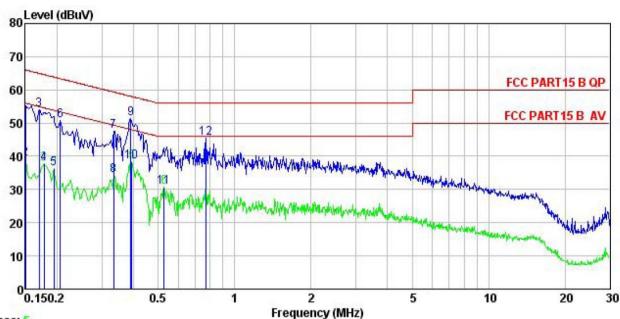
6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.4: 2014		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit	(dBuV)
	, , ,	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 logar		
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm 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 C63.4: 2014 on conducted measurement. 		
Test setup:	Reference Plane		
	AUX Equipment Test table/Insulation Remark E.U.T: Equipment Under Te LISN: Line Impedence Stab. Test table height=0.8m	E.U.T EMI Receiver	ilter — AC power
Test Instruments:	Refer to section 5.7 for det	tails	
Test mode:	Refer to section 5.3 for det	tails	
Test results:	Passed		



Measurement Data:

Neutral:



Trace: 5

Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

: MOBILE PHONE EUT Model : GO1402

Test Mode : BLE mode

Power Rating: AC120/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Peter

Remark

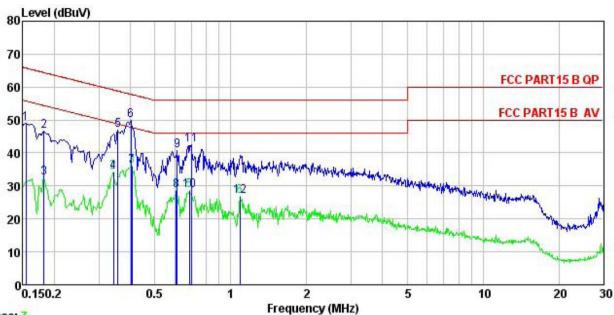
emark	: Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line		Remark
	MHz	dBu₹	<u>dB</u>	₫B	dBu₹	dBu₹	<u>dB</u>	
1	0.150	44.40	0.12	10.78	55.30	66.00	-10.70	QP
2	0.150	28.35	0.12	10.78	39.25	56.00	-16.75	Average
3	0.170	43.16	0.13	10.77	54.06	64.94	-10.88	QP
2 3 4 5 6 7 8 9	0.178	26.83	0.14	10.77	37.74	54.59	-16.85	Average
5	0.194	25.43	0.15	10.76	36.34	53.84	-17.50	Average
6	0.206	39.82	0.15	10.76	50.73	63.36	-12.63	QP
7	0.334	36.69	0.20	10.73	47.62	59.35	-11.73	QP
8	0.334	23.17	0.20	10.73	34.10	49.35	-15.25	Average
9	0.389	40.27	0.23	10.72	51.22	58.08	-6.86	QP
10	0.393	27.49	0.23	10.72	38.44			Average
11	0.527	19.76	0.25	10.76	30.77	46.00	-15.23	Average
12	0.771	34.23	0.31	10.80	45.34	56.00	-10.66	QP

Notes:

- 1. An initial pre-scan was performed on the live 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 + Cable Loss.



Line:



Trace: 7

Site : CCIS Shielding Room Condition : FCC PART15 B QP LISN LINE

EUT : MOBILE PHONE
Model : G01402
Test Mode : BLE mode

Power Rating: AC120/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Peter

Remark

	100000000000000000000000000000000000000		722.02.02.02.00		U20020-02010	522000 7700	
Frea						Over Limit	Remark
MHz	dBu₹	dB	dB	dBu₹	dBu₹		
0.154	38.09	0.14	10.78	49.01	65.78	-16.77	QP
0.182	35.74	0.15	10.77	46.66	64.42	-17.76	QP
0.182	21.55	0.15	10.77	32.47	54.42	-21.95	Average
0.343	23.37	0.20	10.73	34.30	49.13	-14.83	Average
0.358	35.91	0.21	10.73	46.85	58.78	-11.93	QP
0.402	38.99	0.24	10.72	49.95			
0.406	24.98	0.24	10.72	35.94	47.73	-11.79	Average
0.608	17.64	0.29	10.77	28.70	46.00	-17.30	Average
0.614	29.66	0.29	10.77	40.72	56.00	-15.28	QP
0.686	17.58	0.31	10.77	28.66			Post Court March
	NAME OF TAXABLE PARTY.					-13.37	QP
1.088	15.77	0.27	10.88	26.92	46.00	-19.08	Average
	MHz 0.154 0.182 0.182 0.343 0.358 0.402 0.406 0.608 0.614	Freq Level MHz dBuV 0.154 38.09 0.182 35.74 0.182 21.55 0.343 23.37 0.358 35.91 0.402 38.99 0.406 24.98 0.608 17.64 0.614 29.66 0.686 17.58 0.697 31.54	0.154 38.09 0.14 0.182 35.74 0.15 0.182 21.55 0.15 0.343 23.37 0.20 0.358 35.91 0.21 0.402 38.99 0.24 0.406 24.98 0.24 0.608 17.64 0.29 0.614 29.66 0.29 0.686 17.58 0.31 0.697 31.54 0.32	Freq Level Factor Loss MHz dBuV dB dB	MHz dBuV dB dB dBuV 0.154 38.09 0.14 10.78 49.01 0.182 35.74 0.15 10.77 46.66 0.182 21.55 0.15 10.77 32.47 0.343 23.37 0.20 10.73 34.30 0.358 35.91 0.21 10.73 46.85 0.402 38.99 0.24 10.72 49.95 0.406 24.98 0.24 10.72 35.94 0.608 17.64 0.29 10.77 28.70 0.614 29.66 0.29 10.77 40.72 0.686 17.58 0.31 10.77 28.66 0.697 31.54 0.32 10.77 42.63	Freq Level Factor Loss Level Line MHz dBuV dB dB dBuV dBuV 0.154 38.09 0.14 10.78 49.01 65.78 0.182 35.74 0.15 10.77 46.66 64.42 0.182 21.55 0.15 10.77 32.47 54.42 0.343 23.37 0.20 10.73 34.30 49.13 0.358 35.91 0.21 10.73 46.85 58.78 0.402 38.99 0.24 10.72 49.95 57.81 0.406 24.98 0.24 10.72 35.94 47.73 0.608 17.64 0.29 10.77 28.70 46.00 0.614 29.66 0.29 10.77 40.72 56.00 0.686 17.58 0.31 10.77 28.66 46.00 0.697 31.54 0.32 10.77 42.63 56.00	MHz dBuV dB dB dBuV dBuV dB 0.154 38.09 0.14 10.78 49.01 65.78 -16.77 0.182 35.74 0.15 10.77 46.66 64.42 -17.76 0.182 21.55 0.15 10.77 32.47 54.42 -21.95 0.343 23.37 0.20 10.73 34.30 49.13 -14.83 0.358 35.91 0.21 10.73 46.85 58.78 -11.93 0.402 38.99 0.24 10.72 49.95 57.81 -7.86 0.406 24.98 0.24 10.72 35.94 47.73 -11.79 0.608 17.64 0.29 10.77 28.70 46.00 -17.30 0.614 29.66 0.29 10.77 40.72 56.00 -15.28 0.686 17.58 0.31 10.77 28.66 46.00 -17.34 0.697 31.54 0.32

Notes:

- 1. An initial pre-scan was performed on the live 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 + Cable Loss.



6.3 Conducted Output Power

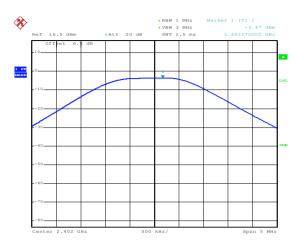
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 9.1.1				
Limit:	30dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	-3.47		
Middle	-1.47	30.00	Pass
Highest	-4.60		

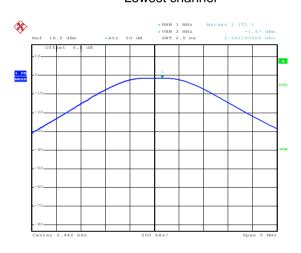


Test plot as follows:



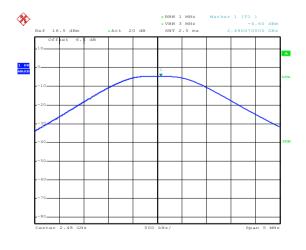
Date: 28.JUN.2016 17:40:44

Lowest channel



Date: 28.JUN.2016 17:41:19

Middle channel



Date: 28.JUN.2016 17:41:42

Highest channel



6.4 Occupy Bandwidth

Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 8.1					
Limit:	>500kHz					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

Test CH	6dB Emission Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	0.726			
Middle	0.726	>500	Pass	
Highest	0.720			
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	1.212			
Middle	Middle 1.032		N/A	
Highest	1.026			

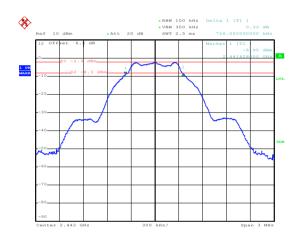


Test plot as follows:



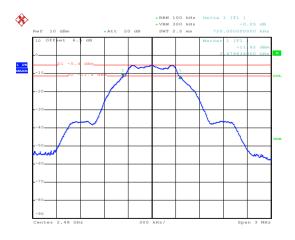
Date: 28.JUN.2016 17:47:10

Lowest channel



Date: 28.JUN.2016 17:45:22

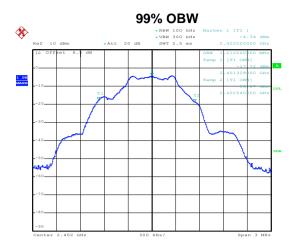
Middle channel



Date: 28.JUN.2016 17:44:09

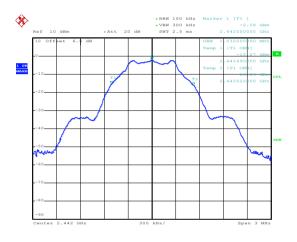
Highest channel





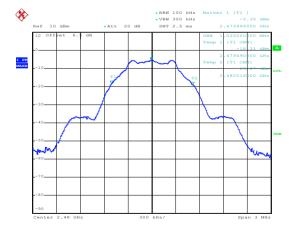
Date: 28.JUN.2016 17:48:12

Lowest channel



Date: 28.JUN.2016 17:48:37

Middle channel



Date: 28.JUN.2016 17:48:57

Highest channel



6.5 Power Spectral Density

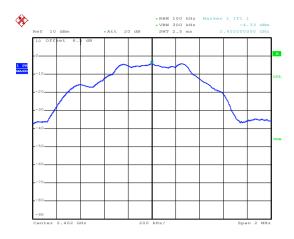
Test Requirement:	FCC Part 15 C Section 15.247 (e)					
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 10.2					
Limit:	8 dBm					
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane					
Test Instruments:	Refer to section 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

Measurement Data:

model of fort Butt.							
Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result				
Lowest	-4.33						
Middle	-2.25	8.00	Pass				
Highest	-5.32						



Test plots as follow:



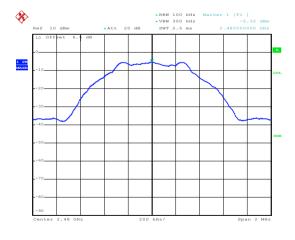
Date: 28.JUN.2016 17:51:04

Lowest channel



Date: 28.JUN.2016 17:50:35

Middle channel



Date: 28.JUN.2016 17:50:03

Highest channel



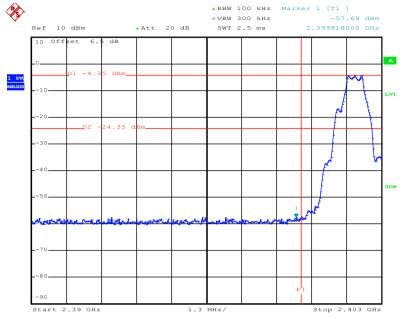
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)					
	ANSI C63.10:2013 and KDB558074v03r05 section 13					
Test Method:						
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 5.7 for details					
Test mode:	Refer to section 5.3 for details					
Test results:	Passed					

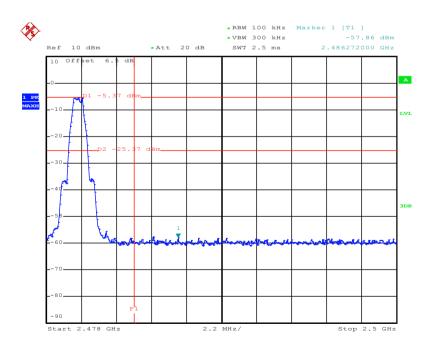


Test plots as follow:



Date: 28.JUN.2016 17:53:10

Lowest channel



Date: 28.JUN.2016 17:54:34

Highest channel



6.6.2 Radiated Emission Method

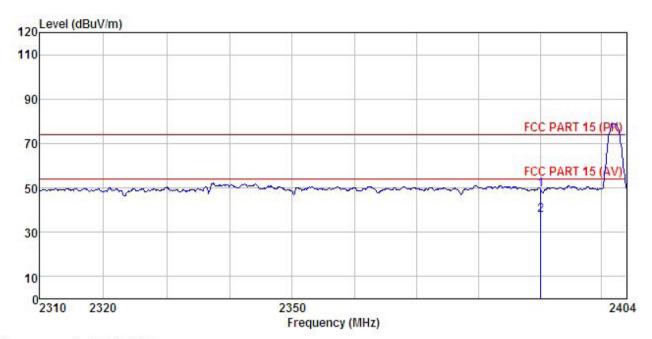
			FCC Part 15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.10: 2013 and KDB 558074v03r05 section 12.1								
Test Frequency Range:	2.3GHz to 2.50	GHz							
Test site:	Measurement	Distance: 3n	n						
Receiver setup:	Frequency	Detector	RBW	VBV	V Remark				
· ·	Above 1GHz	Peak	1MHz	3MH	Iz Peak Value				
		RMS	1MHz	3MH					
Limit:	Frequen	ncy I	Limit (dBuV/m @:	3m)	Remark				
	Above 10	GHz —	54.00 74.00		Average Value				
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters about the ground at a 3 meter camber. The table was rotated 360 degree 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 ante 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 meters and the rota table was turned from 0 degrees to 360 degree 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 10 dB lower that the limit specified, then testing could be stopped and the peak vas of the EUT would be reported. Otherwise the emissions that did repeak or average method as specified and then reported in a data 								
Test setup:	sheet.	AE EUT (Turntable)	Ground Reference Plane Test Receiver	n Antenna Ante	denna Tower				
Test Instruments:	Refer to section	n 5.7 for det	ails						
	Refer to section 5.3 for details								
Test mode:	Refer to section 5.3 for details Passed								





Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: Mobile Phone EUT Model : G01402 Test mode : BLE-L mode Power Rating : AC120V/60Hz

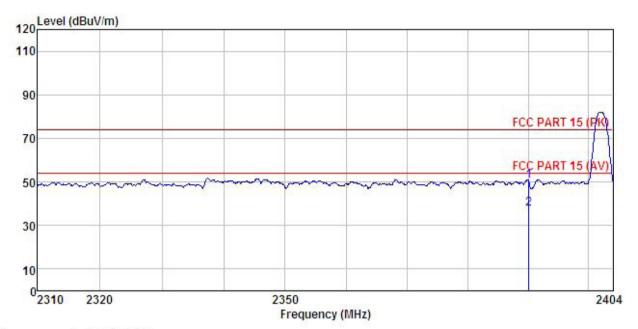
Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Peter Remark :

smar.	к :								
	Freq		Antenna Factor						Remark
	MHz	——dBu∇	dB/m	<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m	<u>dB</u>	
	2390.000 2390.000	200000000000000000000000000000000000000							OEUPEOPER ON
1	7.1911. 111111	1.0	7.3. no.	n n n n	11. 1111	311.44	04.1111	Tin. on	Average



Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : Mobile Phone : G01402 Model

Test mode : BLE-L mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Peter

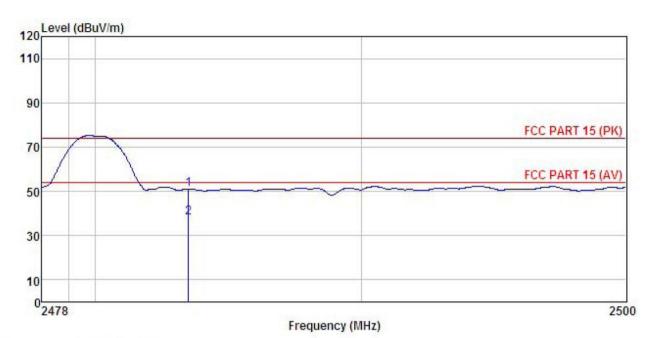
Remark

	Freq		Antenna Factor						
	MHz	——dBuV	$-\frac{dB}{m}$	dB	<u>d</u> B	dBuV/m	dBuV/m	<u>d</u> B	
1	2390.000			F 535 F 1		50.42			OED TOTAL TOTAL
2	2390.000	7.12	23.68	6.63	0.00	37.43	54.00	-16.57	Average



Test channel: Highest

Horizontal:



3m chamber Site

: FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

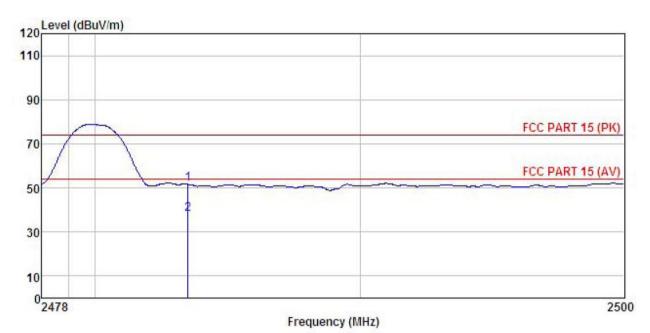
EUT : Mobile Phone Model : GO1402 Test mode : BLE-H mode

Power Rating: AC120V/60Hz
Environment: Temp:25.5°C
Test Engineer: Peter
Remark:

maı		Read.	Ant enna	Cable	Preamn		Limit	Over	
	Freq		Factor						
	MHz	dBu∇	<u>dB</u> /m	d <u>B</u>	<u>dB</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	2483,500 2483,500								



Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL Condition

EUT : Mobile Phone : G01402 Model Test mode : BLE-H mode

Power Rating: AC120V/60Hz Environment: Temp:25.5°C Huni:55% Test Engineer: Peter

Remark

.comarı	•	Read	Antenna	Cable	Preamn		Limit	Over	
	Freq		Factor						Remark
-	MHz	dBu₹	<u>dB</u> /m	<u>d</u> B	dB	dBuV/m	dBuV/m	dB	
1	2483.500	21.06	23.70	6.85	0.00	51.61	74.00	-22.39	Peak
2	2483.500	7.69	23.70	6.85	0.00	38.24	54.00	-15.76	Average



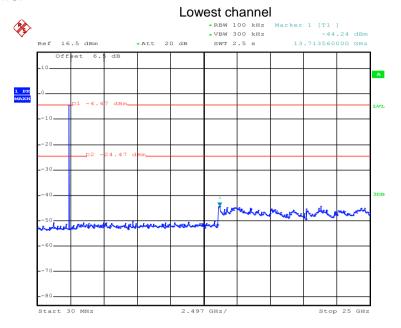
6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)							
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 11							
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 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							

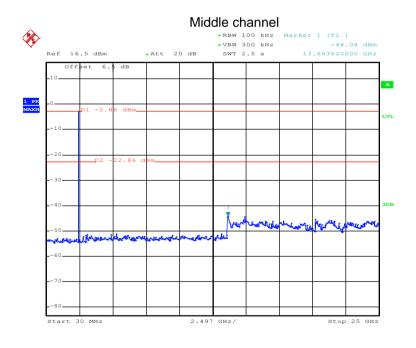


Test plot as follows:



Date: 28.JUN.2016 17:37:28

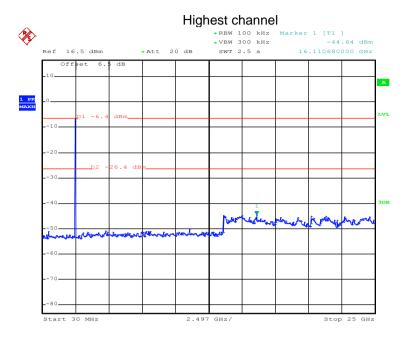
30MHz~25GHz



Date: 28.JUN.2016 17:37:59

30MHz~25GHz





Date: 28.JUN.2016 17:39:27

30MHz~25GHz



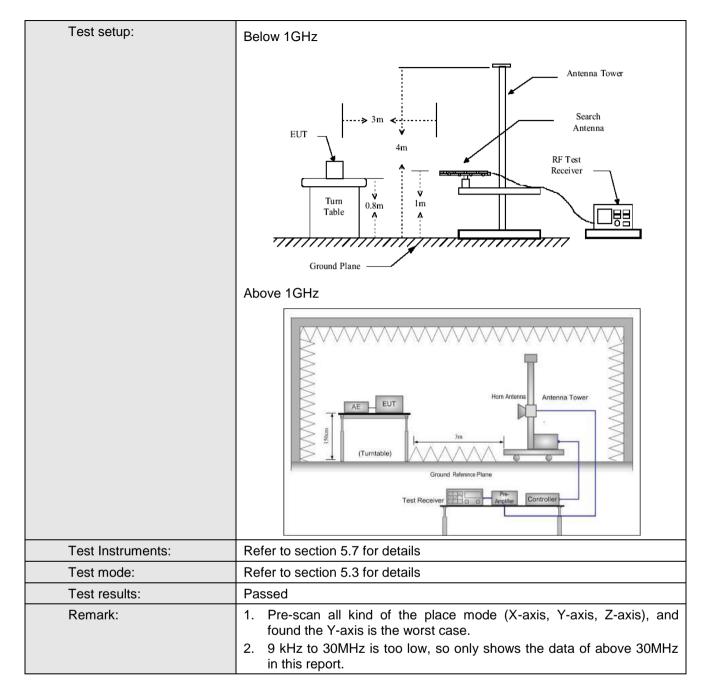


6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C	Section 1	5.209	9 and 15.205					
Test Method:	FCC Part 15 C Section 15.209 and 15.205 ANSI C63.10:2013								
Test Frequency Range:	9KHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency Detector RBW VBW Remark								
·	30MHz-1GHz	Quasi-pe	eak	120KHz	300k	KHz	Quasi-peak Value		
	A h a v a 4 C l l =	Peak		1MHz	3M	Hz	Peak Value		
	Above 1GHz	RMS		1MHz	3M	Hz	Average Value		
Limit:	Frequency	/	Lin	nit (dBuV/m @	23m)		Remark		
	30MHz-88M	Hz		40.0		Q	tuasi-peak Value		
	88MHz-216N	1Hz		43.5		Q	uasi-peak Value		
	216MHz-960	ИНz		46.0		Q	luasi-peak Value		
	960MHz-1G	Hz		54.0		Q	luasi-peak Value		
	Above 1GF	17		54.0			Average Value		
				74.0		Peak Value			
Test Procedure:	1GHz)/1.5r The table we highest rad antenna, we tower. 3. The antenna Both horizon make the nate of the ease and the meters and to find the nate of the limit spoof the EUT have 10 dE	m(above was rotate iation. was set thich was ha height to deter ontal and neasurement the rota maximum eceiver sandwidth sion level ecified, the would be margin v	1GHz ed 36 3 me mou is varine vertinent. d emi anten table read yster with of th nen te e rep would	z) above the 50 degrees to eters away for the maximulation in the Edition of the maximulation in the Edition of the maximum to extend the edition of the Edition of the Edition of the Edition of the esting could be orted. Otherwall be re-tested.	ground of determination of a me metrom valuitions of a control of the control of	d at a mine to e intervariable er to for the a series degree by the end of th	table 0.8m(below 3 meter camber. the position of the rference-receiving ble-height antenna our meters above the field strength. Intenna are set to anged to its worst from 1 meter to 4 es to 360 degrees ect Function and a 10 dB lower than and the peak values assions that did not using peak, quasi-reported in a data		



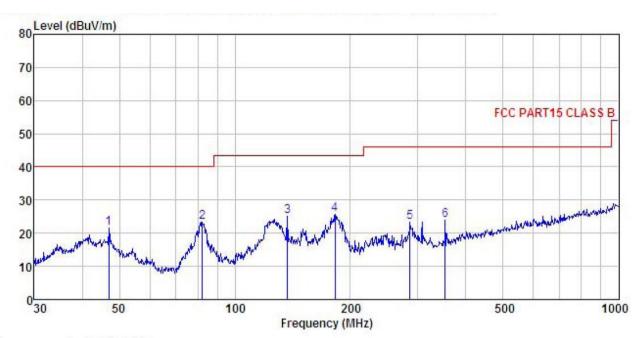






Below 1GHz:

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) HORIZONTAL Condition

EUT MOBILE PHONE Model : G01402

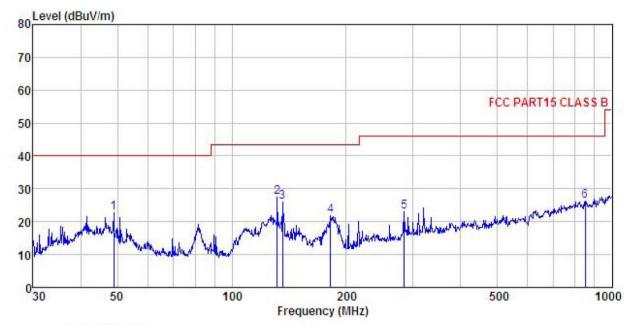
Test mode : BLE mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55% 101KPa Test Engineer: MT REMARK :

KEMARK		DJ	A	Cabla	D		Timir	0	
	Freq		Antenna Factor				Limit Line	Over Limit	Remark
-	MHz	—dBu∇	dB/m		<u>ab</u>	$\overline{dBuV/m}$	dBu√/m	<u>dB</u>	
1	46.995	33.49	16.71	1.27	29.84	21.63	40.00	-18.37	QP
2 3 4 5	82.359	44.20	6.96	1.76	29.62	23.30	40.00	-16.70	QP
3	136.939	40.17	11.88	2.36	29.29	25.12	43.50	-18.38	QP
4	182.559	42.60	9.32	2.75	28.95	25.72	43.50	-17.78	QP
5	285.978	36.66	12.26	2.90	28.47	23.35	46.00	-22.65	QP
6	352.943	35.29	14.22	3.10	28.57	24.04	46.00	-21.96	QP



Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M3G) VERTICAL Condition

EUT : MOBILE PHONE : G01402 Model Test mode : BLE mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55% 101KPa

Test Engineer: MT

REMARK

Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBu∇			<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
48.843	35.71	15.70	1.27	29.83	22.85	40.00	-17.15	QP
131.758	42.20	12.19	2.30	29.32	27.37	43.50	-16.13	QP
135.982	41.06	11.95	2.35	29.29	26.07	43.50	-17.43	QP
181.920	38.87	9.28	2.74	28.96	21.93	43.50	-21.57	QP
283.979	36.38	12.24	2.90	28.48	23.04	46.00	-22.96	QP
851.035	29.09	21.00	4.18	28.00	26.27	46.00	-19.73	QP
	MHz 48.843 131.758 135.982 181.920 283.979	Freq Level MHz dBuV 48.843 35.71 131.758 42.20 135.982 41.06 181.920 38.87 283.979 36.38	Freq Level Factor MHz dBuV dB/m 48.843 35.71 15.70 131.758 42.20 12.19 135.982 41.06 11.95 181.920 38.87 9.28 283.979 36.38 12.24	Freq Level Factor Loss MHz dBuV dB/m dB 48.843 35.71 15.70 1.27 131.758 42.20 12.19 2.30 135.982 41.06 11.95 2.35 181.920 38.87 9.28 2.74 283.979 36.38 12.24 2.90	Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 48.843 35.71 15.70 1.27 29.83 131.758 42.20 12.19 2.30 29.32 135.982 41.06 11.95 2.35 29.29 181.920 38.87 9.28 2.74 28.96 283.979 36.38 12.24 2.90 28.48	Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dB dBuV/m 48.843 35.71 15.70 1.27 29.83 22.85 131.758 42.20 12.19 2.30 29.32 27.37 135.982 41.06 11.95 2.35 29.29 26.07 181.920 38.87 9.28 2.74 28.96 21.93 283.979 36.38 12.24 2.90 28.48 23.04	Freq Level Factor Loss Factor Level Line MHz dBuV dB/m dB dB dBuV/m dBuV/m	MHz dBuV dB/m dB dB dBuV/m dBuV/m <t< td=""></t<>



Above 1GHz

Test channel:			Lo	west	Le	vel:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	43.49	35.99	10.57	40.24	49.81	74.00	-24.19	Vertical
4804.00	43.83	35.99	10.57	40.24	50.15	74.00	-23.85	Horizontal
Т	est channel	•	Lowest		Le	vel:	A	verage
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	33.56	35.99	10.57	40.24	39.88	54.00	-14.12	Vertical
4804.00	33.54	35.99	10.57	40.24	39.86	54.00	-14.14	Horizontal

Т	est channel	•	Mi	iddle	Le	vel:	Peak	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	43.68	36.38	10.66	40.15	50.57	74.00	-23.43	Vertical
4884.00	44.35	36.38	10.66	40.15	51.24	74.00	-22.76	Horizontal
Т	est channel		Middle		Le	vel:	A۱	verage
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4884.00	33.26	36.38	10.66	40.15	40.15	54.00	-13.85	Vertical
4884.00	34.01	36.38	10.66	40.15	40.90	54.00	-13.10	Horizontal

Т	:	Hiç	ghest	Le	vel:	Peak		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	44.66	36.71	10.73	40.03	52.07	74.00	-21.93	Vertical
4960.00	43.00	36.71	10.73	40.03	50.41	74.00	-23.59	Horizontal
Т	est channel	•	Highest		Le	vel:	A۱	verage
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	33.54	36.71	10.73	40.03	40.95	54.00	-13.05	Vertical
4960.00	33.21	36.71	10.73	40.03	40.62	54.00	-13.38	Horizontal

Remark:

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