

Report No:CCISE160904602

FCC REPORT

(BLE)

Applicant: Binatone Electronics International Limited

Address of Applicant: Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong

Equipment Under Test (EUT)

Product Name: DECT Phone

Model No.: IVO, Smart75

FCC ID: VLJ-IVO

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

Date of sample receipt: 29 Sep., 2016

Date of Test: 29 Sep., 2016 to 13 Oct., 2016

Date of report issued: 13 Oct., 2016

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	13 Oct., 2016	Original

Reviewed by: Over the Date: 13 Oct., 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:	Binatone Electronics International Limited
Address of Applicant:	Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong
Manufacturer:	ShenZhen Concox Information Technology Co., Ltd
Address of Manufacturer:	4F, Building B, Gaoxinqi Industrial Park, Liuxian 1st Road, District 67, Bao'an, Shenzhen
Factory:	Huizhou Goldenchip Electronics Co., Ltd
Address of Factory:	No. 12 Factory, Songyang Road, Zhongkai Hi-tech Development Zone, Huizhou City, Guangdong Province, China

5.2 General Description of E.U.T.

Product Name:	DECT Phone
Model No.:	IVO, Smart75
Operation Frequency:	2402-2480 MHz
Channel numbers:	40
Channel separation:	2 MHz
Modulation technology:	GFSK
Data speed :	1Mbps
Antenna Type:	Internal Antenna
Antenna gain:	1.0dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-1600mAh
AC adapter:	Model: S006AKU0500100 Input: AC100-240V 50/60Hz 0.2A Output: DC 5.0V, 1A
Remark:	The No.:IVO, Smart75 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name.

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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



5.3 Test environment andmode

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

Report No: CCISE160904602



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 Part15 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 forfixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBiprovided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The BLE antennais aninternal antennawhich cannot replace by end-user, the best case gain of the antennais 1.0dBi.



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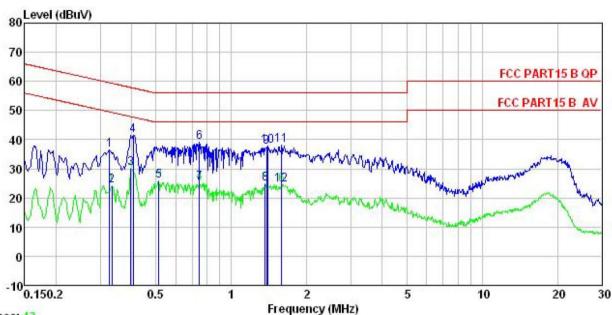
6.2 Conducted Emission

D.15-0.5 66 to 56* 56 to 46 0.5-5 56 46 5-30 60 50 * Decreases with the logarithm of the frequency. 1. The E.U.T and simulators are connected to the main power the line impedance stabilization network (L.I.S.N.), which prospond to the measuring equipment and all of the block diagram of the test sephotographs). 3. Both sides of A.C. line are checked for maximum content interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane				
TestFrequencyRange: Class / Severity: Class B Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Ouasi-peak Average (MHz) Oussi-peak (Average (MHz) Oussi-peak (Average (MHz) Oussi-peak (Average (MHz) Oussi-peak (MHz) Oussi-peak (Average (MHz) Oussi-peak (Average (MHz) Oussi-peak (MHz) Oussi-peak (MHz) Oussi-peak (Average (MHz) Oussi-peak (Test Requirement:	FCC Part15 C Section 15.207		
Class / Severity: Receiver setup: RBW=9kHz, VBW=30kHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 5-30 60 50 * Decreases with the logarithm of the frequency. 1. The E.U.T and simulators are connected to the main power the line impedance stabilization network (L.I.S.N.), which prospond some a LISN that provides a 500hm/50uH coupling impedance of the measuring equipment at LISN that provides a 500hm/50uH coupling impedance with termination. (Please refer to the block diagram of the test set photographs). 3. Both sides of A.C. line are checked for maximum content interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN Filter AC po	Test Method:	ANSI C63.4: 2014		
Receiver setup: RBW=9kHz, VBW=30kHz	TestFrequencyRange:	150 kHz to 30MHz		
Limit: Frequency range (MHz)	Class / Severity:	Class B		
Test procedure Test procedure	Receiver setup:	RBW=9kHz, VBW=30kHz		
O.15-0.5 66 to 56* 56 to 46 O.5-5 56 46 Decreases with the logarithm of the frequency. 1. The E.U.T and simulators are connected to the main power the line impedance stabilization network (L.I.S.N.), which prospectively south the properties of the measuring equipment at LISN that provides a 500hm/50uH coupling impedance with termination. (Please refer to the block diagram of the test see photographs). 3. Both sides of A.C. line are checked for maximum continuer of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN Reference Plane LISN Reference Plane	Limit:	Limit (dBuV)		
Test procedure 1. The E.U.T and simulators are connected to the main power the line impedance stabilization network (L.I.S.N.), which prospond to the main power and LISN that provides a 500hm/50uH coupling impedance with termination. (Please refer to the block diagram of the test see photographs). 3. Both sides of A.C. line are checked for maximum content interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN		Quasi-peak Average		
Test procedure 1. The E.U.T and simulators are connected to the main power the line impedance stabilization network (L.I.S.N.), which prospond to the measuring equipment a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refer to the block diagram of the test see photographs). 3. Both sides of A.C. line are checked for maximum continterference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane Comparison				
* Decreases with the logarithm of the frequency. 1. The E.U.T and simulators are connected to the main power the line impedance stabilization network (L.I.S.N.), which pro 500hm/50uH coupling impedance for the measuring equipment a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refer to the block diagram of the test see photographs). 3. Both sides of A.C. line are checked for maximum continuer interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN AUX Equipment E.U.T Filter AC po				
Test procedure 1. The E.U.T and simulators are connected to the main power the line impedance stabilization network (L.I.S.N.), which pro 500hm/50uH coupling impedance for the measuring equipment a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refer to the block diagram of the test set photographs). 3. Both sides of A.C. line are checked for maximum of interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane LISN AUX Equipment E.U.T Filter AC po	-			
line impedance stabilization network (L.I.S.N.), which pro 500hm/50uH coupling impedance for the measuring equipment 2. The peripheral devices are also connected to the main power a LISN that provides a 500hm/50uH coupling impedance with termination. (Please refer to the block diagram of the test see photographs). 3. Both sides of A.C. line are checked for maximum continuer interference. In order to find the maximum emission, the positions of equipment and all of the interface cables must be according to ANSI C63.4: 2014 on conducted measurement. Test setup: Reference Plane Reference Plane LISN AUX Equipment E.U.T EMI Receiver				
LISN 40cm 80cm Filter AC po	rest procedure	 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 		
AUX Equipment E.U.T EMI Receiver	Test setup:	Reference Plane		
Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m		AUX Equipment Test table/Insulation plane Remark E.U.T EMI Receiver Receiver LISN: Line Impedence Stabilization Network		
Test Instruments: Refer to section 5.7 for details	Test Instruments:	Refer to section 5.7 for details		
Test mode: Refer to section 5.3 for details	Test mode:	Refer to section 5.3 for details		
Test results: Passed	Test results:	Passed		



Measurement Data:

Neutral:



Trace: 43

Site

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

: DECT Phone EUT

: IVO Model : BLE mode Test Mode Power Rating : AC 120V/50Hz

Environment : Temp: 23 °C Huni: 56% Atmos: 101KPa

Test Engineer: Mike Remark :

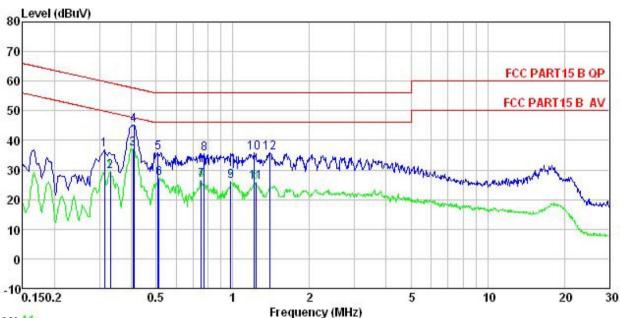
:							
Freq							Remark
MHz	dBu₹	<u>d</u> B	dB	dBu₹	dBu₹	<u>dB</u>	
0.327	25.57	0.20	10.73	36.50	59.53	-23.03	QP
0.334	13.38	0.20	10.73	24.31	49.35	-25.04	Average
0.398	19.16	0.23	10.72	30.11	47.90	-17.79	Average
0.406	30.66	0.23	10.72	41.61	57.73	-16.12	QP
0.513	14.74	0.25	10.76	25.75	46.00	-20.25	Average
0.747	27.89	0.32	10.79	39.00	56.00	-17.00	QP
0.747	14.09	0.32	10.79	25.20	46.00	-20.80	Average
1.367	13.56	0.26	10.91	24.73	46.00	-21.27	Average
1.381	26.26	0.26	10.91	37.43	56.00	-18.57	QP
1.396	26.58	0.26	10.91	37.75	56.00	-18.25	QP
1.585	26.98	0.26	10.93	38.17	56.00	-17.83	QP
1.585	13.46	0.26	10.93	24.65	46.00	-21.35	Average
	0.327 0.334 0.398 0.406 0.513 0.747 1.367 1.381 1.396 1.585	Freq Level MHz dBuV 0.327 25.57 0.334 13.38 0.398 19.16 0.406 30.66 0.513 14.74 0.747 27.89 0.747 14.09 1.367 13.56 1.381 26.26 1.396 26.58 1.585 26.98	MHz dBuV dB 0.327 25.57 0.20 0.334 13.38 0.20 0.398 19.16 0.23 0.406 30.66 0.23 0.513 14.74 0.25 0.747 27.89 0.32 0.747 14.09 0.32 1.367 13.56 0.26 1.381 26.26 0.26 1.396 26.58 0.26 1.585 26.98 0.26	Freq Level Factor Loss MHz dBuV dB dB	MHz dBuV dB dB dBuV 0.327 25.57 0.20 10.73 36.50 0.334 13.38 0.20 10.73 24.31 0.398 19.16 0.23 10.72 30.11 0.406 30.66 0.23 10.72 41.61 0.513 14.74 0.25 10.76 25.75 0.747 27.89 0.32 10.79 39.00 0.747 14.09 0.32 10.79 25.20 1.367 13.56 0.26 10.91 37.43 1.381 26.26 0.26 10.91 37.43 1.396 26.58 0.26 10.93 38.17	Freq Level Factor Loss Level Line MHz dBuV dB dB dBuV dBuV	Freq Level Factor Loss Level Line Limit MHz dBuV dB dB dBuV dBuV dB

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 peakemission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss.



Line:



Trace: 41

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

Condition

EUT : DECT Phone

: IVO Model Test Mode : BLE mode

Power Rating: AC 120V/50Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Mike

Re

Remark	:		120020000	20.2020		2.7	120	
		Read	LISN	Cable		Limit	Over	
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBu∜	<u>dB</u>		dBu₹	dBu∇	<u>d</u> B	
1	0.313	25.79	0.17	10.74	36.70	59.88	-23.18	QP
2	0.330	18.47	0.19	10.73	29.39	49.44	-20.05	Average
3	0.406	26.27	0.24	10.72	37.23	47.73	-10.50	Average
4	0.410	34.19	0.24	10.72	45.15	57.64	-12.49	QP
5	0.510	24.90	0.25	10.76	35.91	56.00	-20.09	QP
6	0.513	16.23	0.25	10.76	27.24	46.00	-18.76	Average
2 3 4 5 6 7 8 9	0.751	15.47	0.31	10.79	26.57	46.00	-19.43	Average
8	0.771	24.35	0.30	10.80	35.45	56.00	-20.55	QP
9	0.984	15.08	0.26	10.87	26.21	46.00	-19.79	Average
10	1.216	24.70	0.28	10.90	35.88	56.00	-20.12	QP
11	1.229	14.53	0.28	10.90	25.71	46.00	-20.29	Average
12	1.403	24.76	0.29	10.91	35.96	56.00	-20.04	QP

- 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 peakemission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.3 Conducted Output Power

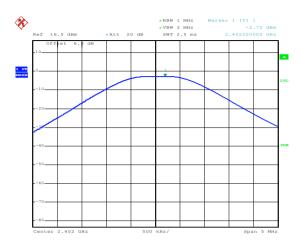
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 9.1.1				
Limit:	30dBm				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data:

Test CH	Maximum Conducted Output Power (dBm)	Limit(dBm)	Result
Lowest	-2.72		
Middle	-2.23	30.00	Pass
Highest	-2.40		

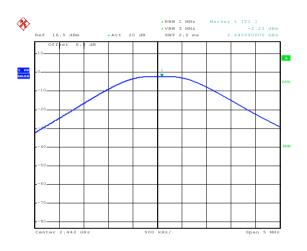


Test plot as follows:



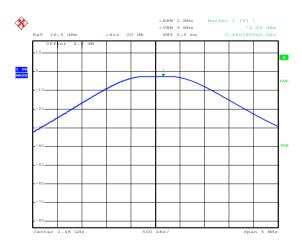
Date: 30.SEP.2016 17:48:39

Lowest channel



Date: 30.SEP.2016 17:49:10

Middle channel



Date: 30.SEP.2016 17:49:30

Highest channel



6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 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	0.720	>500	Pass	
Highest	0.726			
Test CH	99% Occupy Bandwidth (MHz)	Limit(kHz)	Result	
Lowest	1.044			
Middle 1.044		N/A	N/A	
Highest	1.044			

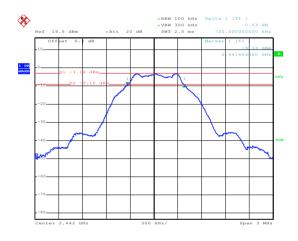


Test plot as follows:



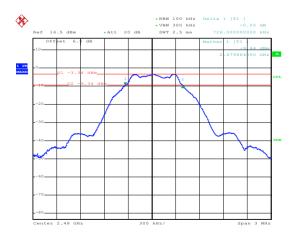
Date: 30.SEP.2016 17:51:14

Lowest channel



Date: 30.SEP.2016 17:52:11

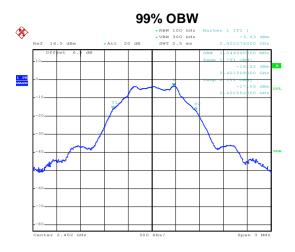
Middle channel



Date: 30.SEP.2016 17:54:10

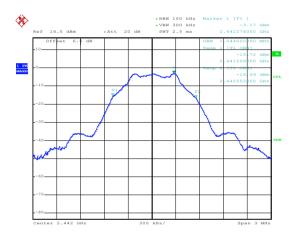
Highest channel





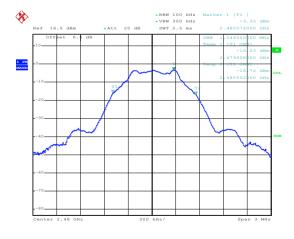
Date: 30.SEP.2016 17:55:51

Lowest channel



Date: 30.SEP.2016 17:55:21

Middle channel



Date: 30.SEP.2016 17:54:53

Highest channel



6.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)				
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 10.2				
Limit:	8dBm				
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:

MCasarcincin Data.				
Test CH	Power Spectral Density (dBm)	Limit(dBm)	Result	
Lowest	-3.63			
Middle	-3.14	8.00	Pass	
Highest	-3.33			

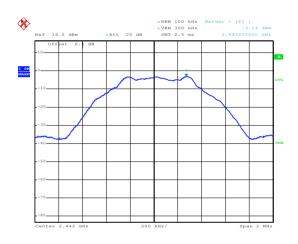


Test plots as follow:



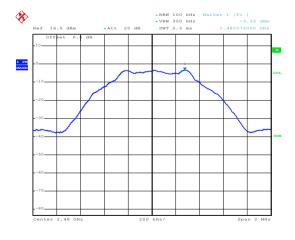
Date: 30.SEP.2016 17:56:28

Lowest channel



Date: 30.SEP.2016 17:56:54

Middle channel



Date: 30.SEP.2016 17:57:20

Highest channel



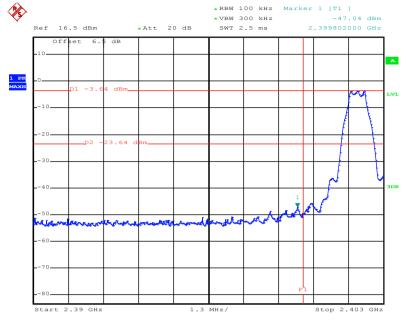
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074v03r05 section 13					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spreadspectrum 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					
	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					

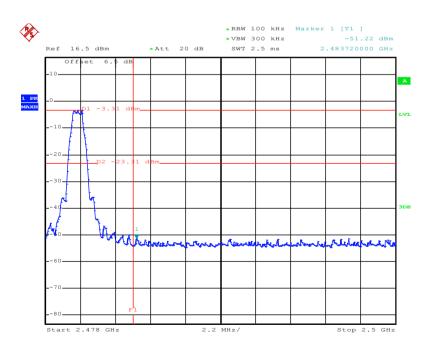


Test plots as follow:



Date: 30.SEP.2016 17:59:52

Lowest channel



Date: 30.SEP.2016 18:01:29

Highest channel



6.6.2 Radiated Emission Method

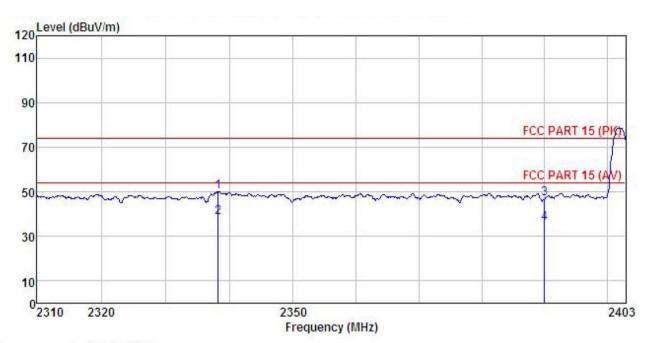
Test Method: TestFrequencyRange: 2.3GHz to 2.5GHz Test site: Measurement Distance: 3m Receiver setup: Frequency Above 1GHz Above 1GHz Frequency Limit (dBuV/m @3m) Average Value Frequency Limit (dBuV/m @3m) Average Value Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height amenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would be ret-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet. Test setup: Test setup: Refer to section 5.7 for details Test mode: Refer to section 5.3 for details	Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Remark Above 1GHz Peak 1MHz 3MHz Peak Value RMS 1MHz 3MHz Average Value Frequency Limit (dBuV/m @3m) Remark Above 1GHz 54.00 Average Value Above 1GHz 74.00 Peak Value Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one usipeak, quasipeak or average method as specified andthen reported in a data sheet. Test setup: Refer to section 5.7 for details Refer to section 5.3 for details	Test Method:	ANSI C63.10: 2013and KDB 558074v03r05 section 12.1						
Receiver setup: Frequency	TestFrequencyRange:	2.3GHz to 2.5GHz						
Above 1GHz RMS 1MHz 3MHz Peak Value RMS 1MHz 3MHz Peak Value RMS 1MHz 3MHz Average Value Frequency Limit (dBuV/m @3m) Remark Above 1GHz 74.00 Peak Value Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data sheet. Test setup: Test Instruments: Refer to section 5.7 for details Refer to section 5.3 for details	Test site:	Measurement Distance: 3m						
Above 1GHz RMS 1MHz 3MHz Average Value RMS 1MHz 3MHz Average Value Frequency Limit (dBuV/m @3m) Remark Above 1GHz 74,00 Average Value 74,00 Peak Value Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to 1find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data sheet. Test setup: Test Instruments: Refer to section 5.7 for details Refer to section 5.3 for details	Receiver setup:	Frequency	Detector	RBW	V	BW	Remark	
Limit: Frequency Limit (dBuV/m@3m) Remark Above 1GHz 74.00 Average Value 74.00 Peak Value Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data sheet. Test setup: Refer to section 5.7 for details Refer to section 5.3 for details	·	Above 1GHz	Peak	1MHz	31	ИНz	Peak Value	
Above 1GHz Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data sheet. Test setup: Test Instruments: Refer to section 5.7 for details Refer to section 5.3 for details					-	ИНz	Average Value	
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was uned to heights from 1 meter to 4 meters and then rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data sheet. Test setup: Refer to section 5.7 for details Refer to section 5.3 for details	Limit:	Frequen	icy I		Bm)			
Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 3. 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. 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasipeak or average method as specified andthen reported in a data sheet. Test setup: Refer to section 5.7 for details Refer to section 5.3 for details		Above 10	GHz -					
Test Instruments: Refer to section 5.7 for details Test mode: Refer to section 5.3 for details	Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the groundat a 3 meter camber. The table was rotated 360 degrees todetermine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, whichwas 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 thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi- 						
Test mode: Refer to section 5.3 for details	Test setup:	STIOUL STATE OF THE STATE OF TH	(Turntable)	Ground Reference Plane			wer	
	Test Instruments:	Refer to section 5.7 for details						
Test results: Passed	Test mode:	Refer to section 5.3 for details						
	Test results:	Passed						





Test channel: Lowest

Horizontal:



Site

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

EUT

Model : IVO

Test mode : BLE-L Mode Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55% Test Engineer: Mike REMARK :

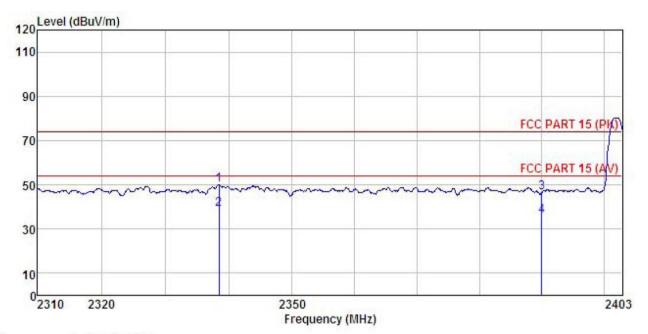
1234

ML.	r :									
	Freq		Antenna Factor				Limit Line	Over Limit	Remark	
	MHz	−dBuV			<u>ab</u>	$\overline{dBuV/m}$	$\overline{\mathtt{dBuV/m}}$	<u>d</u> B		-
	2338. 254	21.78	23.67	4.64	0.00	50.09	74.00	-23.91	Peak	
	2338.254	10.24	23.67	4.64	0.00	38.55	54.00	-15.45	Average	
	2390.000	18.60	23.68	4.69	0.00	46.97	74.00	-27.03	Peak	
	2390.000	7.34	23.68	4.69	0.00	35.71			Average	





Vertical:



Site

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

: DECT Phone EUT

: IVO Model

Test mode : BLE-L Mode Power Rating : AC 120V/60Hz

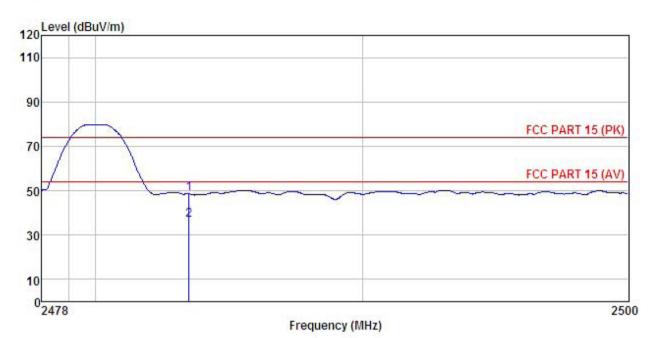
Environment : Temp: 25.5°C Huni: 55% Test Engineer: Mike REMARK :

			Antenna Factor						Remark
-	MHz	dBu₹	<u>dB</u> /m	dB	dB	dBuV/m	dBuV/m	<u>dB</u>	
2	2338.438 2338.438 2390.000 2390.000	10.64 18.34	23.67 23.68	4.69	0.00 0.00	38.95 46.71	54.00 74.00	-27.29	Average



Test channel: Highest

Horizontal:



Site : 3m chamber

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

EUT : DECT Phone Model : IVO

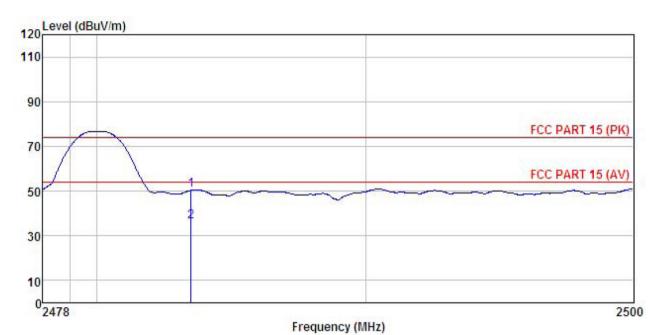
Test mode : BLE-H Mode Power Rating: AC 120V/60Hz Environment: Temp:25.5°C Huni:55%

Test Engineer: Mike REMARK :

הייטונים	a .	Read	Antenna	Cable	Preamo		Limit	Over	
	Freq		Factor						Remark
-	MHz	—dBu∇	<u>dB</u> /m	dB	<u>ab</u>	dBuV/m	$\overline{dBuV/m}$	<u>dB</u>	
1 2	2483.500 2483.500		77.7.2 (4)17.0	(1777) (T) (T)	. TITLETT				



Vertical:



Site

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

EUT

: IVO Model Test mode : BLE-H Mode

Power Rating: AC 120V/60Hz Environment: Temp: 25.5°C Huni: 55% Test Engineer: Mike

REMARK

LINUIU			Antenna Factor						
2	MHz	dBu∜	<u>dB</u> /m	d <u>B</u>	dB	dBuV/m	dBuV/m	<u>dB</u>	
	2483.500 2483.500								



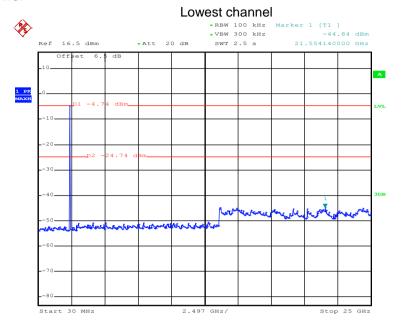
6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 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 spreadspectrum 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									

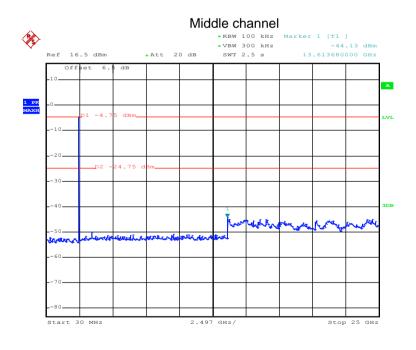


Test plot as follows:



Date: 30.SEP.2016 18:03:26

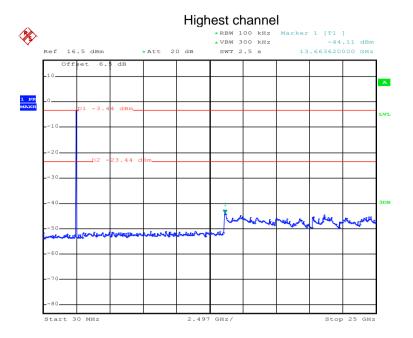
30MHz~25GHz



Date: 30.SEP.2016 18:04:31

30MHz~25GHz





Date: 30.SEP.2016 18:05:46

30MHz~25GHz



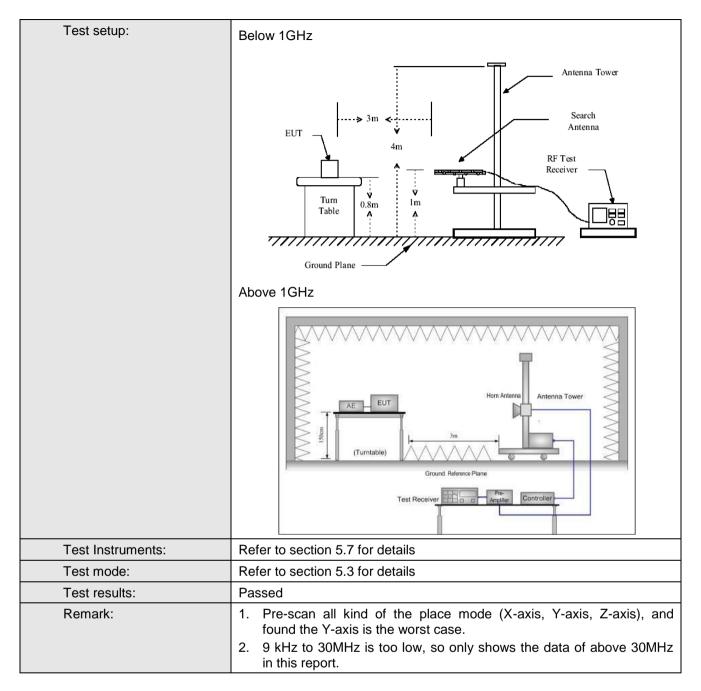
6.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15	5.209	and 15.205					
Test Method:	ANSI C63.10:2013								
TestFrequencyRange:	9KHz to 25GHz								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detecto	or	RBW	VB	W	Remark		
	30MHz-1GHz	Quasi-pe	eak	120KHz	300	KHz	Quasi-peak Value		
	Above 1GHz	Peak		1MHz	3M	Hz	Peak Value		
	Above TOTIZ	RMS		1MHz	3M	Hz	Average Value		
Limit:	Frequency		Lin	nit (dBuV/m @	:3m)		Remark		
	30MHz-88M			40.0			uasi-peak Value		
	88MHz-216N			43.5			uasi-peak Value		
	960MHz-1G	Hz							
	Above 1GF	lz -		54.0			<u> </u>		
						- ("			
Test Procedure:	216MHz-960MHz								

Project No.:CCISE1609046



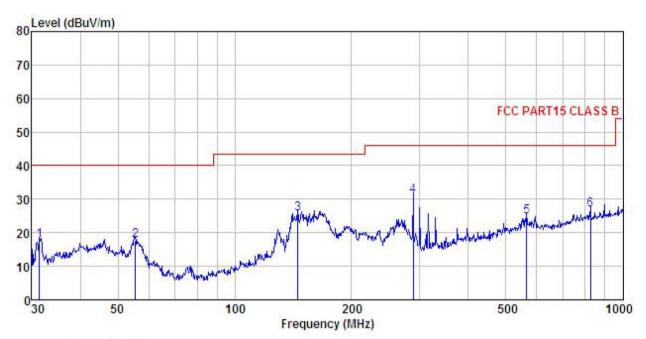






Below 1GHz:

Horizontal:



Site

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

EUT

: IVO Model Test mode : BLE Mode Power Rating : AC 120V/60Hz

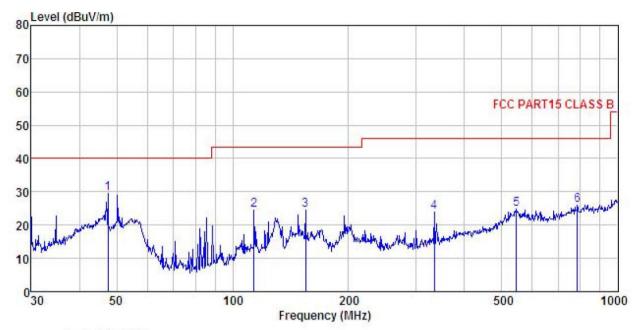
Environment: Temp: 25.5°C Huni: 55%

Test Engineer: Mike REMARK

LMAKK									
	Freq		Antenna Factor				Limit Line		Remark
_	MHz	dBu₹	<u>dB</u> /m	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1	31.399	33.76	12.94	0.85	29.97	17.58	40.00	-22.42	QP
2	55.415	33.72	12.51	1.36	29.80	17.79	40.00	-22.21	QP
3	145.351	41.32	11.13	2.46	29.24	25.67	43.50	-17.83	QP
4	287.990	44.18	12.27	2.91	28.47	30.89	46.00	-15.11	QP
2 3 4 5	564.639	31.59	18.21	3.90	29.05	24.65	46.00	-21.35	QP
6	824.597	30.01	20.82	4.27	28.10	27.00	46.00	-19.00	QP



Vertical:



Site

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

: DECT Phone EUT : IVO Model Test mode : BLE Mode Power Rating : AC 120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Mike REMARK :

Linunai	•	D1	A	C-11-	D		Timin	0	
	Freq		Antenna Factor						Remark
_	MHz	dBu₹	$\overline{dB/m}$	dB	<u>dB</u>	$\overline{dBuV/m}$	dBuV/m	<u>dB</u>	
1	47.492	41.68	16.34	1.27	29.84	29.45	40.00	-10.55	QP
2	113.714	40.93	10.85	2.10	29.43	24.45	43.50	-19.05	QP
3	154.821	40.71	10.30	2.55	29.18	24.38	43.50	-19.12	QP
3	333.687	35.74	13.68	3.05	28.52	23.95	46.00	-22.05	QP
5	545.183	32.03	17.98	3.86	29.08	24.79	46.00	-21.21	QP
6	785.093	29.29	20.54	4.35	28.28	25.90	46.00	-20.10	QP



Above 1GHz

Т	est channel	:	Lo	Lowest		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	48.08	35.99	6.80	41.81	49.06	74.00	-24.94	Vertical
4804.00	47.69	35.99	6.80	41.81	48.67	74.00	-25.33	Horizontal
Т	est channel	•	Lowest		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
4804.00	38.02	35.99	6.80	41.81	39.00	54.00	-15.00	Vertical
4804.00	37.74	35.99	6.80	41.81	38.72	54.00	-15.28	Horizontal

Т	est channel	:	Middle		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	46.88	36.38	6.86	41.84	48.28	74.00	-25.72	Vertical	
4884.00	48.60	36.38	6.86	41.84	50.00	74.00	-24.00	Horizontal	
Т	est channel	:	Middle		Le	vel:	Average		
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	36.74	36.38	6.86	41.84	38.14	54.00	-15.86	Vertical	
4884.00	38.56	36.38	6.86	41.84	39.96	54.00	-14.04	Horizontal	

Т	est channel	•	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	47.23	36.71	6.91	41.87	48.98	74.00	-25.02	Vertical
4960.00	48.29	36.71	6.91	41.87	50.04	74.00	-23.96	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	37.24	36.71	6.91	41.87	38.99	54.00	-15.01	Vertical
4960.00	38.32	36.71	6.91	41.87	40.07	54.00	-13.93	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.