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TEST REPORT

Product : Yanshee
Trade mark : UBTECH
Model/Type reference : Yanshee

Serial Number : N/A

Report Number : EED32K00127801 FCC ID : 2AHJX-YANSHEE

Date of Issue : Jul. 19, 2018

Test Standards : 47 CFR Part 15 Subpart C

Test result : PASS

Prepared for:

UBTECH ROBOTICS CORP

16th and 22nd Floor, Block C1, Nanshan I Park, No.1001 Xueyuan Road, Nanshan District, Shenzhen City, P.R.CHINA

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Date: Jul. 19, 2018

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Max Liang (Project Engineer)

Sheek Luo (Lab supervisor)

Check No.:3096333402









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2 Version

Version No.	Date	(6)	Description)	
00	Jul. 19, 2018	ıl. 19, 2018 Original		I	
	125	12	75	/35	
		(65)	(642)	(6.7)	









































































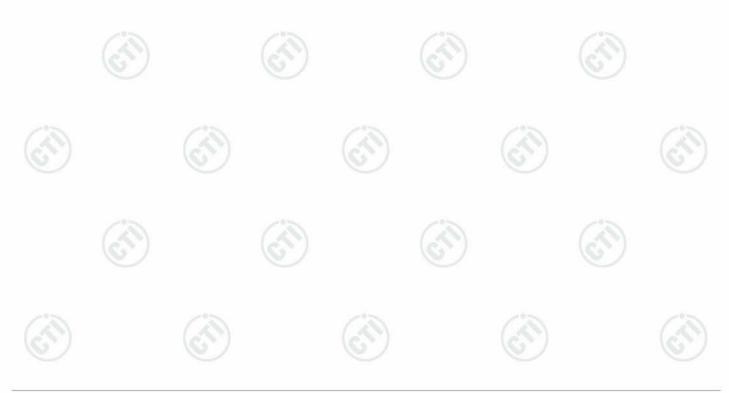


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3 Test Summary

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Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15Subpart C Section 15.207	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013/ KDB 558074 D01v04	PASS
6dB Occupied Bandwidth	47 CFR Part 15Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013/ KDB 558074 D01v04	PASS
Power Spectral Density	47 CFR Part 15Subpart C Section 15.247 (e)	ANSI C63.10-2013/ KDB 558074 D01v04	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013/ KDB 558074 D01v04	PASS
RF Conducted Spurious Emissions	47 CFR Part 15Subpart C Section 15.247(d)	ANSI C63.10-2013/ KDB 558074 D01v04	PASS
Radiated Spurious Emissions	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS

Test according to ANSI C63.4-2014 & ANSI C63.10-2013. The tested sample(s) and the sample information are provided by the client.





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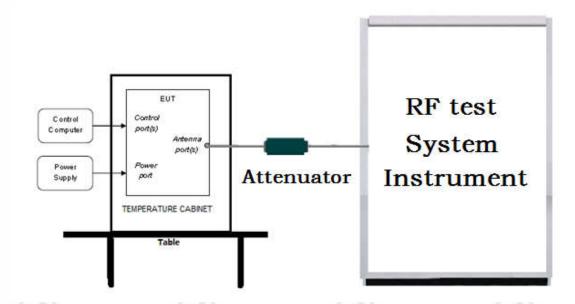


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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

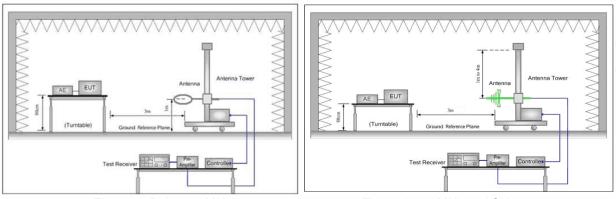


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

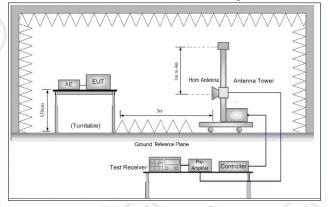
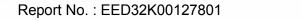


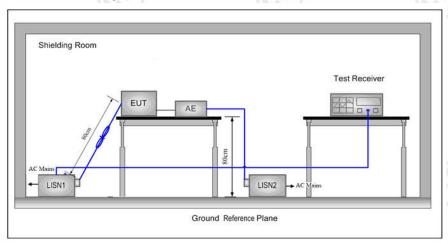
Figure 3. Above 1GHz







5.1.3 For Conducted Emissions test setup Conducted Emissions setup



5.2 Test Environment

Operating Environment:			(6)
Temperature:	24.8 °C		
Humidity:	55 % RH	2002	tain.
Atmospheric Pressure:	1010mbar		

5.3 Test Condition

Test channel:

	Test Mode	Tx/Rx	RF Channel				
N		TX/KX	Low(L)	Middle(M)	High(H)		
Į.	05014	0.4001411 0.400.1411	Channel 1	Channel 20	Channel 40		
	GFSK	2402MHz ~2480 MHz	2402MHz 2440MHz 2480MHz		2480MHz		
	TX mode	The EUT transmitted the continuous signal at the specific channel(s).					
-							















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6 General Information

6.1 Client Information

Applicant:	UBTECH ROBOTICS CORP
Address of Applicant:	16th and 22nd Floor, Block C1, Nanshan I Park, No.1001 Xueyuan Road, Nanshan District, Shenzhen City, P.R.CHINA
Manufacturer:	UBTECH ROBOTICS CORP
Address of Manufacturer:	16th and 22nd Floor, Block C1, Nanshan I Park, No.1001 Xueyuan Road, Nanshan District, Shenzhen City, P.R.CHINA
Factory:	UBTECH ROBOTICS CORP BAOAN BRANCH
Address of Factory:	1-2 Floor, B Block, Huilongda Industry Park, Shilongzai, Shiyan Street, Baoan District, Shenzhen City, P.R.CHINA

6.2 General Description of EUT

Product Name:	Yanshee					
Model No.(EUT):	Yanshee					
Trade mark:	UBTECH	UBTECH				
EUT Supports Radios application:	BT 4.1 BT Dual mode, 2402MHz to 2480MHz WiFi IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz					
Power Supply:	Adapter	Model: HKA03609640-8A Input: 100-240V~50/60Hz, 1.5A Output: 9.6V4.0A				
6.	Battery Rechargable Li-ion Battery 7.24V, 2750mAh, 19.91Wh					
Sample Received Date:	May 24, 2018					
Sample tested Date:	May 24, 2018 to Jul. 19, 2018					

6.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz	
Bluetooth Version:	4.1	
Modulation Technique:	DSSS	
Modulation Type:	GFSK	
Number of Channel:	40	
Firmware version:	Linux 9(manufacturer declare)	
Hardware version:	V1.0(manufacturer declare)	
Antenna Type and Gain:	Type: Ceramic antenna Gain: 1.8dBi	
Test Voltage:	AC 120V, 60Hz	















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	_		_		/ <u>_</u>		/i_
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
3	2406MHz	13	2426MHz	23	2446MHz	33	2466MHz
4	2408MHz	14	2428MHz	24	2448MHz	34	2468MHz
5	2410MHz	15	2430MHz	25	2450MHz	35	2470MHz
6	2412MHz	16	2432MHz	26	2452MHz	36	2472MHz
7	2414MHz	17	2434MHz	27	2454MHz	37	2474MHz
8	2416MHz	18	2436MHz	28	2456MHz	38	2476MHz
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

6.4 Description of Support Units

The EUT has been tested independently.

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.









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6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	ltem	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DE nower conducted	0.31dB (30MHz-1GHz)
2	RF power, conducted	0.57dB (1GHz-18GHz)
3	Dedicted Spurious emission test	4.5dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.8dB (1GHz-12.75GHz)
4	Conduction engineer	3.6dB (9kHz to 150kHz)
4	Conduction emission	3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%

































































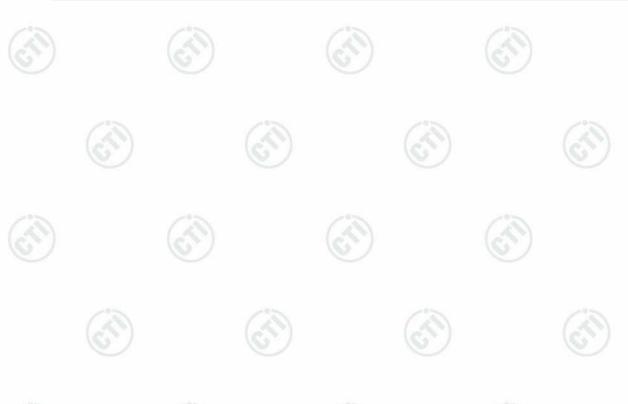


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7 Equipment List

4 4 4 4 4					A 70. Y		
Conducted disturbance Test							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Receiver	R&S	ESCI	100435	05-26-2017 05-25-2018	05-25-2018 05-24-2019		
Temperature/ Humidity Indicator	Belida	TT-512	A19	01-24-2018	01-23-2019		
LISN	R&S	ENV216	100098	05-11-2018	05-10-2019		

RF Conducted test							
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Signal Generator	Keysight	E8257D	MY53401106	03-13-2018	03-12-2019		
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-13-2018	03-12-2019		
Signal Generator	Keysight	N5182B	MY53051549	03-13-2018	03-12-2019		
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002		01-10-2018	01-09-2019		
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002		01-10-2018	01-09-2019		
power meter & power sensor	R&S	OSP120	101374	04-11-2018	04-10-2019		
RF control unit	JS Tonscend	JS0806-2	2015860006	03-13-2018	03-12-2019		





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	3M	l Semi/full-anechoid	Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	/	06-04-2016	06-03-2019
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-617	03-29-2018	03-28-2019
Preamplifier	JS Tonscend	EMC051845SE	980380	01-19-2018	01-18-2019
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-08-2021
Double Ridge Horn Antenna	A.H.SYSTEMS	SAS-574	374	06-07-2015 06-05-2018	06-05-2018 06-03-2021
Loop Antenna	ETS	6502	00071730	06-22-2017	06-21-2019
Spectrum Analyzer	R&S	FSP40	100416	05-11-2018	05-10-2019
Receiver	R&S	ESCI	100435	05-26-2017 05-25-2018	05-25-2018 05-24-2019
LISN	schwarzbeck	NNBM8125	81251547	05-11-2018	05-10-2019
LISN	schwarzbeck	NNBM8125	81251548	05-11-2018	05-10-2019
Signal Generator	Agilent	E4438C	MY45095744	03-13-2018	03-12-2019
Signal Generator	Keysight	E8257D	MY53401106	03-13-2018	03-12-2019
Temperature/ Humidity Indicator	TAYLOR	1451	1905	05-02-2018	05-01-2019
Communication test set	Agilent	E5515C	GB47050534	03-16-2018	03-15-2019
Cable line	Fulai(7M)	SF106	5219/6A	01-10-2018	01-09-2019
Cable line	Fulai(6M)	SF106	5220/6A	01-10-2018	01-09-2019
Cable line	Fulai(3M)	SF106	5216/6A	01-10-2018	01-09-2019
Cable line	Fulai(3M)	SF106	5217/6A	01-10-2018	01-09-2019
Communication test set	R&S	CMW500	152394	03-16-2018	03-15-2019
High-pass filter	Sinoscite	FL3CX03WG18NM1 2-0398-002	- (ES)	01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX01CA09CL12 -0395-001	(i)_	01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX01CA08CL12 -0393-001		01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX02CA04CL12 -0396-002	- (01-10-2018	01-09-2019
band rejection filter	Sinoscite	FL5CX02CA03CL12 -0394-001	"	01-10-2018	01-09-2019















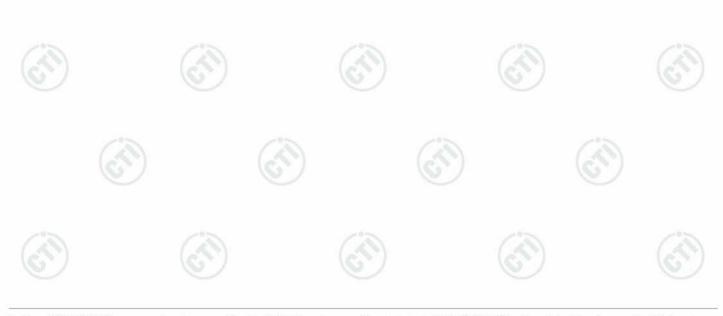
8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part 15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix A)
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)



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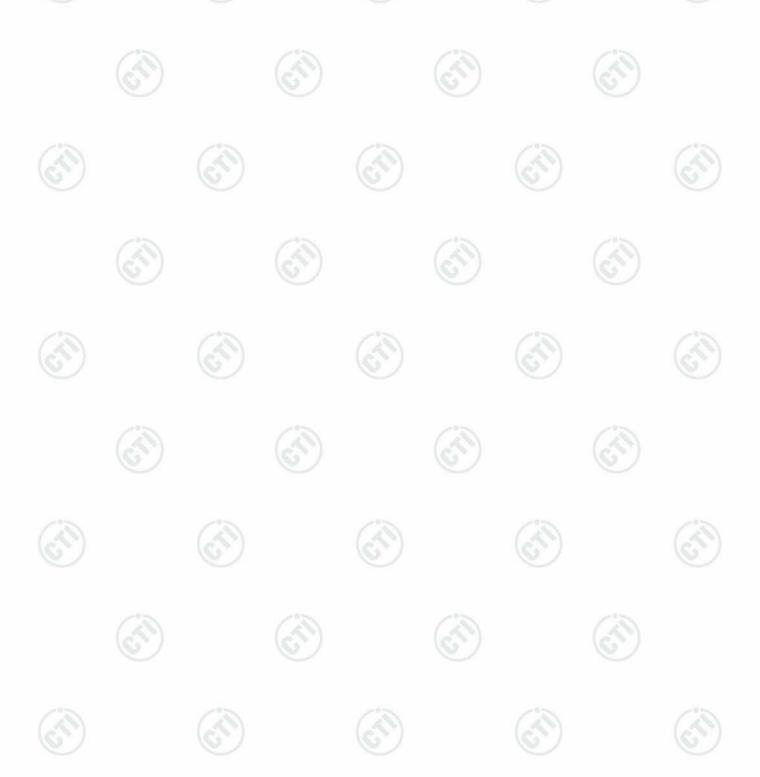




Appendix A): 6dB Occupied Bandwidth

Test Result

Mode	Channel	6dB Bandwidth [MHz]	99% OBW[MHz]	Verdict	Remark
BLE	LCH	0.6970	1.0844	PASS	
BLE	MCH	0.6883	1.0854	PASS	Peak
BLE	нсн	0.6828	1.0863	PASS	detector





























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Appendix B): Conducted Peak Output Power

Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	0.509	PASS
BLE	MCH	2.066	PASS
BLE	НСН	2.722	PASS





































































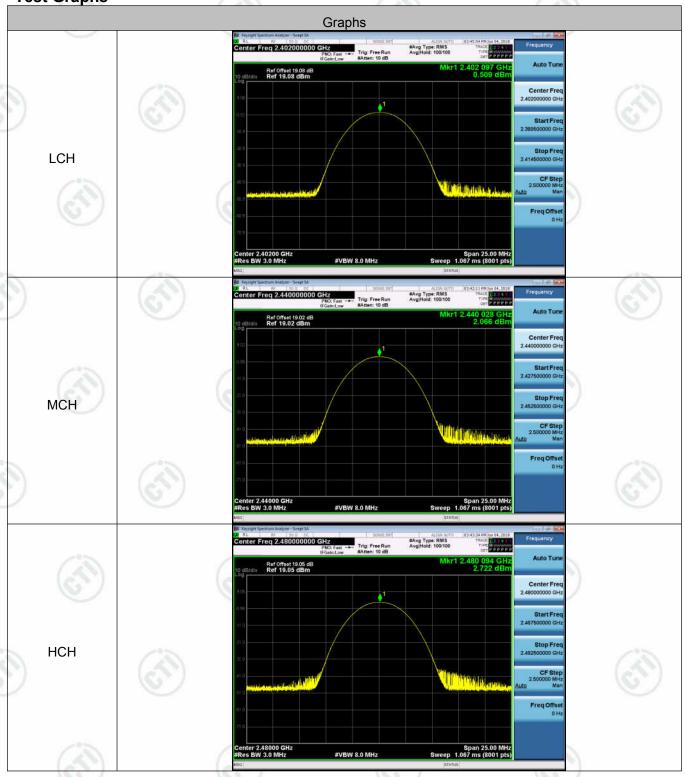








Test Graphs













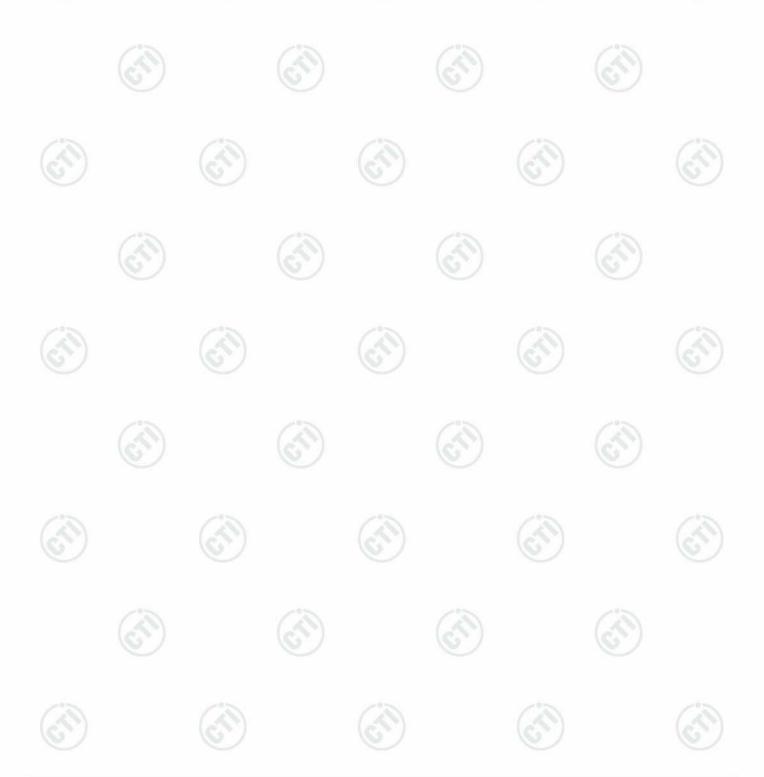


Appendix C): Band-edge for RF Conducted Emissions

Result Table

	Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
-	BLE	LCH	-0.006	-61.302	-20.01	PASS
	BLE	нсн	2.203	-59.173	-17.8	PASS

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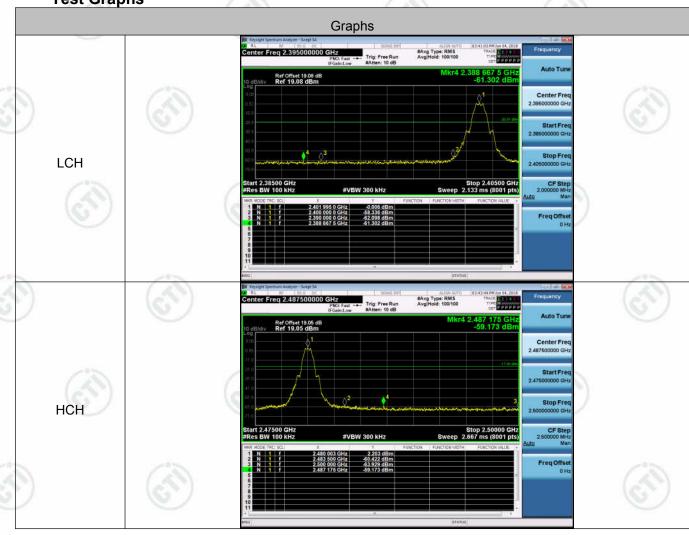






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Test Graphs















































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Appendix D): RF Conducted Spurious Emissions

Result Table

3, 3007		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	-0.25	<limit< td=""><td>PASS</td></limit<>	PASS
BLE	MCH	1.351	<limit< td=""><td>PASS</td></limit<>	PASS
BLE	HCH	1.998	<limit< td=""><td>PASS</td></limit<>	PASS





































































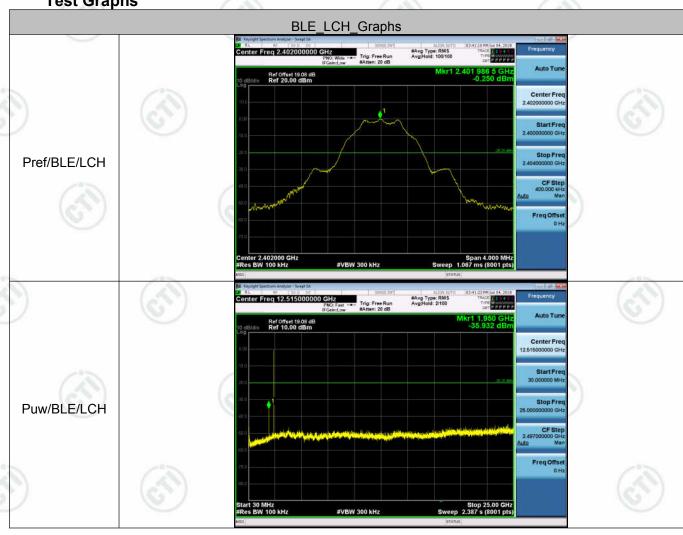


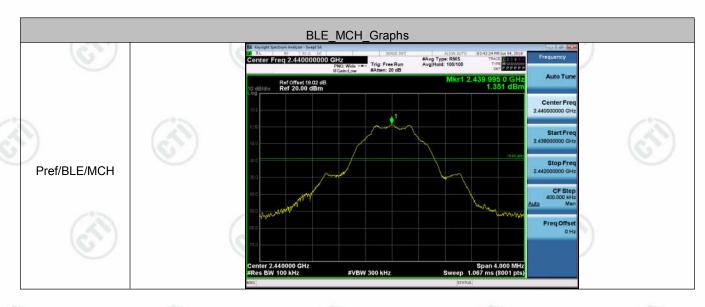




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Test Graphs



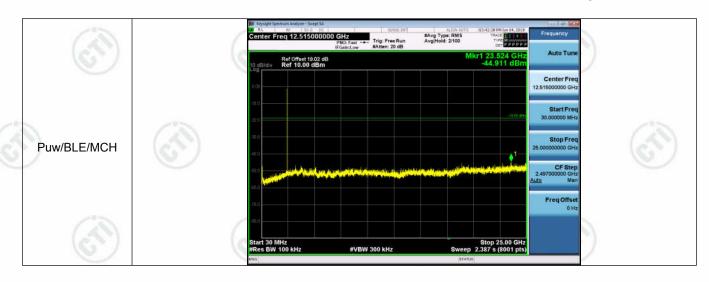


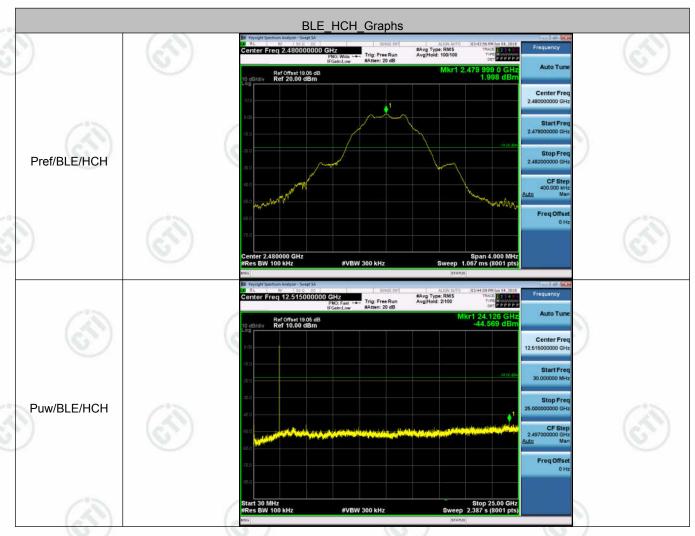






























Appendix E): Power Spectral Density

Result Table

Mode	Channel	PSD[dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE	LCH	-13.549	8	PASS
BLE	MCH	-12.064	8	PASS
BLE	НСН	-11.380	8	PASS



































































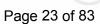






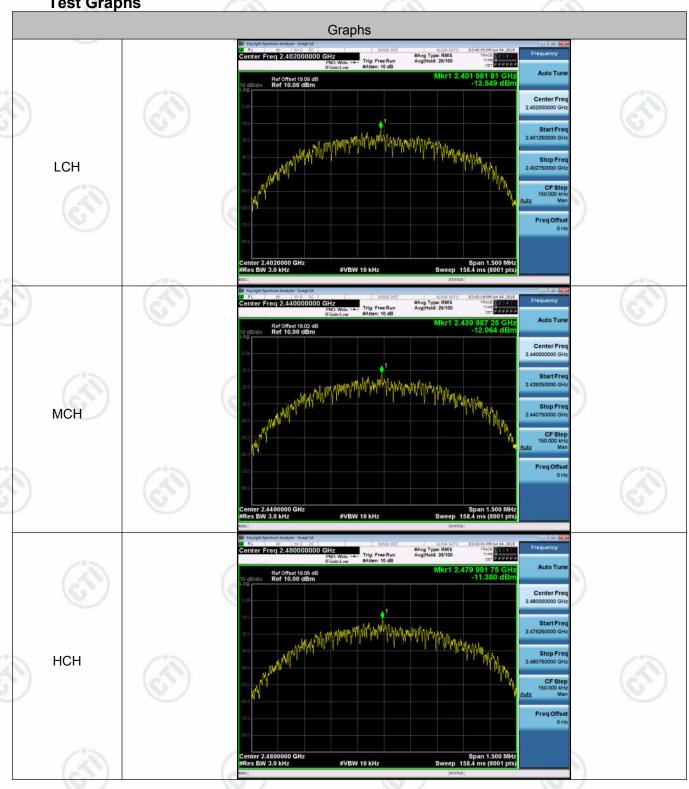






Test Graphs

Report No.: EED32K00127801

















Appendix F): Antenna Requirement

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 car be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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.

EUT Antenna:

The antenna is ceramic antenna and no consideration of replacement. The best case gain of the antenna is 1.8dBi.













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Appendix G): AC Power Line Conducted Emission

Test Procedure: Test frequency range: 150KHz-30MHz The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

- 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) 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 on conducted measurement.

Limit:

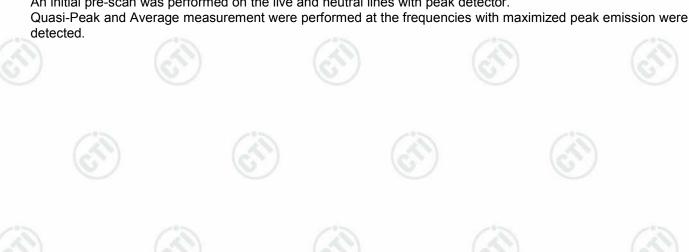
	Fraguency range (MHz)	Limit (c	lΒμV)
Ļ	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
L	0.5-5	56	46
	5-30	60	50

^{*} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

NOTE: The lower limit is applicable at the transition frequency

Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.



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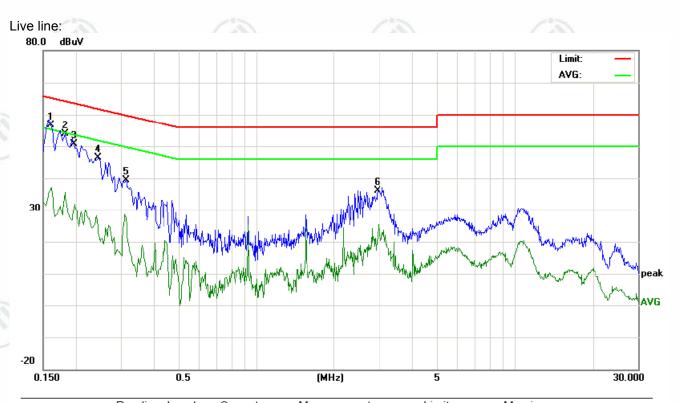








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MHz Peak QP AVG dB peak QP AVG QP AVG QP AVG QP AVG QP AVG QP AVG PF Comment 1 0.1620 45.99 42.17 27.23 9.78 55.77 51.95 37.01 65.36 55.36 -13.41 -18.35 P 2 0.1819 44.05 40.58 25.87 9.76 53.81 50.34 35.63 64.39 54.39 -14.05 -18.76 P 3 0.1980 39.81 36.25 22.06 9.74 49.55 45.99 31.80 63.69 53.69 -17.70 -21.89 P 4 0.2420 36.06 33.71 18.38 9.68 45.74 43.39 28.06 62.02 52.02 -18.63 -23.96 P 5 0.3100 28.94 25.84 18.93 9.60 38.54 35.44 28.53 59.97 49.97 <t< th=""><th>No.</th><th>Freq.</th><th></th><th>ding_Le dBuV)</th><th>vel</th><th>Correct Factor</th><th>N</th><th>leasuren (dBuV)</th><th></th><th>Lir (dB</th><th>nit u∀)</th><th></th><th>rgin dB)</th><th></th><th></th></t<>	No.	Freq.		ding_Le dBuV)	vel	Correct Factor	N	leasuren (dBuV)		Lir (dB	nit u∀)		rgin dB)		
2 0.1819 44.05 40.58 25.87 9.76 53.81 50.34 35.63 64.39 54.39 -14.05 -18.76 P 3 0.1980 39.81 36.25 22.06 9.74 49.55 45.99 31.80 63.69 53.69 -17.70 -21.89 P 4 0.2420 36.06 33.71 18.38 9.68 45.74 43.39 28.06 62.02 52.02 -18.63 -23.96 P 5 0.3100 28.94 25.84 18.93 9.60 38.54 35.44 28.53 59.97 49.97 -24.53 -21.44 P		MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
3 0.1980 39.81 36.25 22.06 9.74 49.55 45.99 31.80 63.69 53.69 -17.70 -21.89 P 4 0.2420 36.06 33.71 18.38 9.68 45.74 43.39 28.06 62.02 52.02 -18.63 -23.96 P 5 0.3100 28.94 25.84 18.93 9.60 38.54 35.44 28.53 59.97 49.97 -24.53 -21.44 P	1	0.1620	45.99	42.17	27.23	9.78	55.77	51.95	37.01	65.36	55.36	-13.41	-18.35	Р	
4 0.2420 36.06 33.71 18.38 9.68 45.74 43.39 28.06 62.02 52.02 -18.63 -23.96 P 5 0.3100 28.94 25.84 18.93 9.60 38.54 35.44 28.53 59.97 49.97 -24.53 -21.44 P	2	0.1819	44.05	40.58	25.87	9.76	53.81	50.34	35.63	64.39	54.39	-14.05	-18.76	Р	
5 0.3100 28.94 25.84 18.93 9.60 38.54 35.44 28.53 59.97 49.97 -24.53 -21.44 P	3	0.1980	39.81	36.25	22.06	9.74	49.55	45.99	31.80	63.69	53.69	-17.70	-21.89	Р	
	4	0.2420	36.06	33.71	18.38	9.68	45.74	43.39	28.06	62.02	52.02	-18.63	-23.96	Р	
6 2.9700 26.06 23.21 15.59 9.80 35.86 33.01 25.39 56.00 46.00 -22.99 -20.61 P	5	0.3100	28.94	25.84	18.93	9.60	38.54	35.44	28.53	59.97	49.97	-24.53	-21.44	Р	
	6	2.9700	26.06	23.21	15.59	9.80	35.86	33.01	25.39	56.00	46.00	-22.99	-20.61	Р	

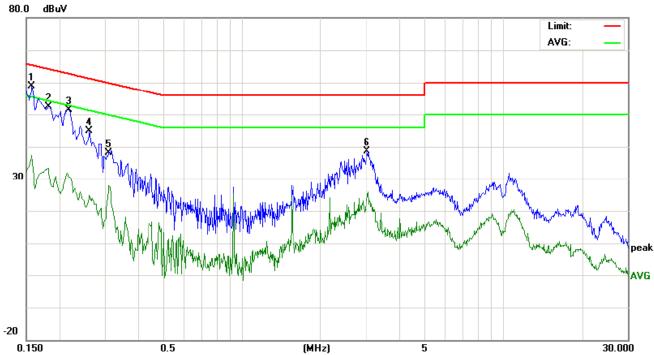






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No.	Freq.		ding_Le dBuV)	vel	Correct Factor	M	leasurem (dBuV)		Lin (dBı			rgin dB)		
	MHz	Peak	QP	AVG	dB	peak	QP	AVG	QP	AVG	QP	AVG	P/F	Comment
1	0.1580	49.01	46.53	27.58	9.79	58.80	56.32	37.37	65.56	55.56	-9.24	-18.19	Р	
2	0.1819	42.58	40.22	23.63	9.76	52.34	49.98	33.39	64.39	54.39	-14.41	-21.00	Р	
3	0.2140	41.59	39.75	22.27	9.71	51.30	49.46	31.98	63.04	53.04	-13.58	-21.06	Р	
4	0.2620	35.16	32.46	15.28	9.65	44.81	42.11	24.93	61.36	51.36	-19.25	-26.43	Р	
5	0.3100	28.55	26.34	18.34	9.60	38.15	35.94	27.94	59.97	49.97	-24.03	-22.03	Р	
6	3.0140	28.76	26.12	13.42	9.80	38.56	35.92	23.22	56.00	46.00	-20.08	-22.78	Р	

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.







Appendix H): Restricted bands around fundamental frequency (Radiated)

(Radiated)	(6)	(6,7)		1	GT.	
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peal	<
	Ab 4011-	Peak	1MHz	3MHz	Peak	100
	Above 1GHz	Peak	1MHz	10Hz	Average	(8
Test Procedure:	Below 1GHz test procedu a. The EUT was placed of at a 3 meter semi-aned determine the position b. The EUT was set 3 meters was mounted on the total control of the antenna height is a determine the maximum polarizations of the antenna was tuned was turned from 0 degree. The test-receiver systems	n the top of a rota choic camber. The of the highest race ters away from the p of a variable-head varied from one not m value of the fielenna are set to maission, the EUT to heights from the rees to 360 degree m was set to Pea	ating table e table was diation. The interfere eight anter meter to foold strength hake the mwas arrang meter to ees to find	0.8 meters rotated 3 ence-receing tower. ur meters a. Both horneasurement ged to its value of the maxim	rs above the 360 degrees ving antenna above the grizontal and vent. worst case along the rotation of the rota	to a, which cound to yertica nd the able
	f. Place a marker at the effrequency to show combands. Save the spectr	end of the restrict opliance. Also me rum analyzer plot	asure any	emissions	s in the restri	
	f. Place a marker at the e	end of the restrict apliance. Also me rum analyzer plot channel Ire as below: Ire is the test site, aber change form 1 meter and table owest channel, the ments are perforred found the X axis	change from table 0.8 is 1.5 met med in X, \(\) s positioning	emissions or each po om Semi- meter to 1 er). channel Y, Z axis p ng which i	Anechoic Ch.5 meter(Ab	nambe ove
imit:	f. Place a marker at the efrequency to show combands. Save the spectror lowest and highest Above 1GHz test procedure. G. Different between above to fully Anechoic Chamman 18GHz the distance is h. Test the EUT in the lower in the radiation measure. Transmitting mode, and	end of the restrict apliance. Also me rum analyzer plot channel Ire as below: Ire is the test site, aber change form 1 meter and table owest channel, the ments are perforred found the X axis	change from table 0.8 is 1.5 met med in X, is positionic encies me	emissions or each poor each poor semi-meter to 1 er). channel Y, Z axis poor gwhich it asured wa	Anechoic Ch.5 meter(Ab	nambe ove
imit:	f. Place a marker at the efrequency to show combands. Save the spectror lowest and highest Above 1GHz test procedure. G. Different between above to fully Anechoic Chamman 18GHz the distance is horizontal to the lowest test. The radiation measure that Transmitting mode, and the lowest test. Repeat above procedure.	end of the restrict apliance. Also me rum analyzer plot channel were as below: we is the test site, aber change form 1 meter and table towest channel, the ments are performed found the X axistres until all frequents	change from table 0.8 is 1.5 met med in X, is positionic encies me	om Semi- meter to 1 er). channel Y, Z axis p ng which it asured wa	Anechoic Ch.5 meter(Ab	nambe ove
imit:	f. Place a marker at the efrequency to show combands. Save the spectror lowest and highest Above 1GHz test procedure. G. Different between above to fully Anechoic Chamman 18GHz the distance is h. Test the EUT in the lower in the radiation measure. Transmitting mode, and j. Repeat above procedure. Frequency	end of the restrict apliance. Also me rum analyzer plot channel are as below: The re is the test site, aber change form 1 meter and table towest channel, the ments are performed found the X axis res until all frequential (dBµV/r).	change from table 0.8 is 1.5 met med in X, is positionic encies me	om Semi- meter to 1 er). channel Y, Z axis p ng which is asured wa Rer Quasi-pe	Anechoic Cr.5 meter(Ab	dulation nambe ove
imit:	f. Place a marker at the efrequency to show combands. Save the spectror for lowest and highest Above 1GHz test procedured. g. Different between above to fully Anechoic Chamman 18GHz the distance is how the companient of the co	end of the restrict apliance. Also me rum analyzer plot channel Ire as below: Ire is the test site, aber change form 1 meter and table owest channel, the ments are performed found the X axis res until all frequences. Limit (dBµV/r 40.0	change from table 0.8 is 1.5 met med in X, is positionic encies me	om Semi- meter to 1 er). channel Y, Z axis p ng which it asured wa Rer Quasi-pe	Anechoic Ch.5 meter(Abecositioning for tis worse cast complete.	dulation nambe ove
Limit:	f. Place a marker at the efrequency to show combands. Save the spect for lowest and highest Above 1GHz test procedure. G. Different between above to fully Anechoic Chamal 18GHz the distance is how to fully Anechoic Chamal 18GHz the EUT in the low in the radiation measure. Transmitting mode, and in the procedure. Frequency 30MHz-88MHz 88MHz-216MHz	end of the restrict apliance. Also me rum analyzer plot channel Ire as below: Ire is the test site, aber change form 1 meter and table lowest channel, the ments are perform 1 found the X axis res until all frequences until all frequences. Limit (dBµV/r 40.0 43.5	change from table 0.8 is 1.5 met he Highest med in X, 's positioning encies mem @3m)	om Semi- meter to 1 er). channel Y, Z axis p ng which it asured wa Rer Quasi-pe Quasi-pe	Anechoic Ch.5 meter(Abecositioning for tis worse cast complete. mark eak Value	nambe ove
Limit:	f. Place a marker at the efrequency to show combands. Save the spectror for lowest and highest Above 1GHz test procedured. g. Different between above to fully Anechoic Chammand 18GHz the distance is how in the low in the result of the res	end of the restrict apliance. Also me rum analyzer plot channel Ire as below: Ire is the test site, aber change form 1 meter and table lowest channel, the ments are perform 1 found the X axis res until all frequences. Limit (dBµV/r 40.0 43.5 46.0	change from table 0.8 is 1.5 met med in X, 's positioning encies med m @3m)	om Semi- meter to 1 er). channel Y, Z axis p ng which if asured wa Rer Quasi-pe Quasi-pe Quasi-pe	Anechoic Ch.5 meter(Abecositioning for tis worse cast complete. mark eak Value eak Value	nambe ove



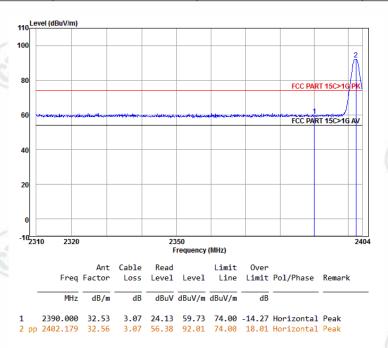




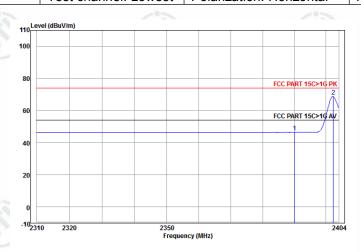
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Test plot as follows:

Worse case mode:	GFSK		(67)
Frequency: 2402MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



Worse case mode:	GFSK			
Frequency: 2402MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Average	



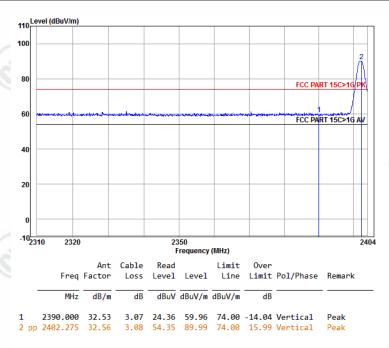
	Freq					Limit Line		Pol/Phase	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 2 pp								Horizontal Horizontal	



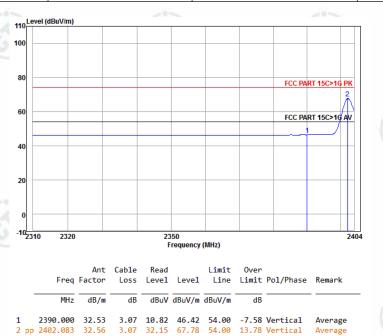


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Worse case mode:	GFSK			
Frequency: 2402MHz	Test channel: Lowest	Polarization: Vertical	Remark: Peak	



Worse case mode:	GFSK		
Frequency: 2402MHz	Test channel: Lowest	Polarization: Vertical	Remark: Average



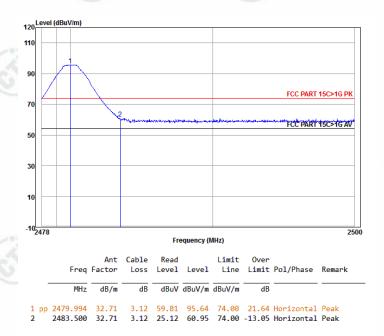




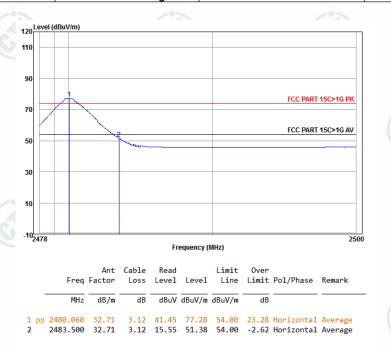


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Worse case mode:	GFSK	(241)		
Frequency: 2480MHz	Test channel: Highest	Polarization: Horizontal	Remark: Peak	



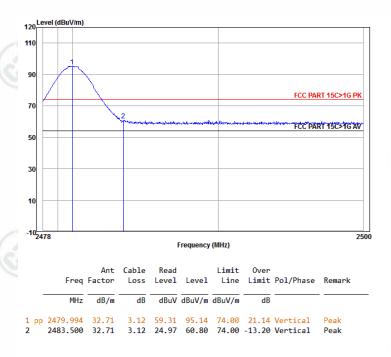
Worse case mode:	GFSK		
Frequency: 2480MHz	Test channel: Highest	Polarization: Horizontal	Remark: Average



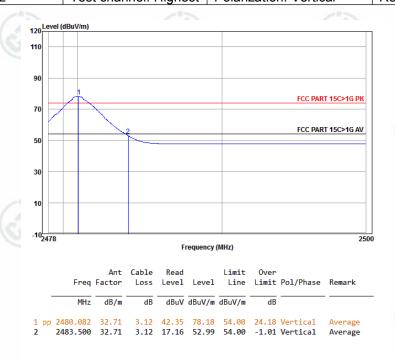


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Worse case mode:	GFSK			
Frequency: 2480MHz	Test channel: Highest	Polarization: Vertical	Remark: Peak	



Worse case mode:	GFSK		
Frequency: 2480MHz	Test channel: Highest	Polarization: Vertical	Remark: Average



Note:

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor





Appendix I): Radiated Spurious Emissions

Frequency	Detector	RBW	VBW	Remark	
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak	
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average	
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak	
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average	
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak	
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	
Abovo 1CHz	Peak	1MHz	3MHz	Peak	
Above IGHZ	Peak	1MHz	10Hz	Average	
	0.009MHz-0.090MHz 0.009MHz-0.090MHz 0.090MHz-0.110MHz 0.110MHz-0.490MHz 0.110MHz-0.490MHz 0.490MHz -30MHz	0.009MHz-0.090MHz Peak 0.009MHz-0.090MHz Average 0.090MHz-0.110MHz Quasi-peak 0.110MHz-0.490MHz Peak 0.110MHz-0.490MHz Average 0.490MHz -30MHz Quasi-peak 30MHz-1GHz Quasi-peak Above 1GHz	0.009MHz-0.090MHz Peak 10kHz 0.009MHz-0.090MHz Average 10kHz 0.090MHz-0.110MHz Quasi-peak 10kHz 0.110MHz-0.490MHz Peak 10kHz 0.110MHz-0.490MHz Average 10kHz 0.490MHz -30MHz Quasi-peak 10kHz 30MHz-1GHz Quasi-peak 120kHz Above 1GHz Peak 1MHz	0.009MHz-0.090MHz Peak 10kHz 30kHz 0.009MHz-0.090MHz Average 10kHz 30kHz 0.090MHz-0.110MHz Quasi-peak 10kHz 30kHz 0.110MHz-0.490MHz Peak 10kHz 30kHz 0.110MHz-0.490MHz Average 10kHz 30kHz 0.490MHz -30MHz Quasi-peak 10kHz 30kHz 30MHz-1GHz Quasi-peak 120kHz 300kHz Above 1GHz Peak 1MHz 3MHz	0.009MHz-0.090MHzPeak10kHz30kHzPeak0.009MHz-0.090MHzAverage10kHz30kHzAverage0.090MHz-0.110MHzQuasi-peak10kHz30kHzQuasi-peak0.110MHz-0.490MHzPeak10kHz30kHzPeak0.110MHz-0.490MHzAverage10kHz30kHzAverage0.490MHz -30MHzQuasi-peak10kHz30kHzQuasi-peak30MHz-1GHzQuasi-peak120kHz300kHzQuasi-peakAbove 1GHzPeak1MHz3MHzPeak

Test Procedure:

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- j. Repeat above procedures until all frequencies measured was complete.

Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	305	300
	0.490MHz-1.705MHz	24000/F(kHz)	-		30
/	1.705MHz-30MHz	30	-	(0-)	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.



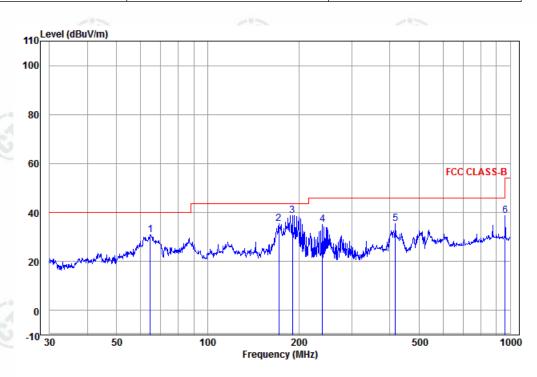






Radiated Spurious Emissions test Data: Radiated Emission below 1GHz

30MHz~1GHz (QP)			
Test mode:	Transmitting	Vertical	



		Ant	Cable	Read		Limit	0ver			
	Freq	Factor	Loss	Level	Level	Line	Limit	Pol/Phase	Remark	
-	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	64.659	11.79	0.23	18.71	30.73	40.00	-9.27	Vertical	QP	
2	171.995	10.08	0.84	24.61	35.53	43.50	-7.97	Vertical	QP	
3 рр	190.405	11.04	1.02	26.74	38.80	43.50	-4.70	Vertical	QP	
4	239.987	12.40	1.30	21.31	35.01	46.00	-10.99	Vertical	QP	
5	417.641	15.57	1.37	18.42	35.36	46.00	-10.64	Vertical	QP	
5	962.162	21.95	2.14	14.69	38.78	54.00	-15.22	Vertical	QP	

























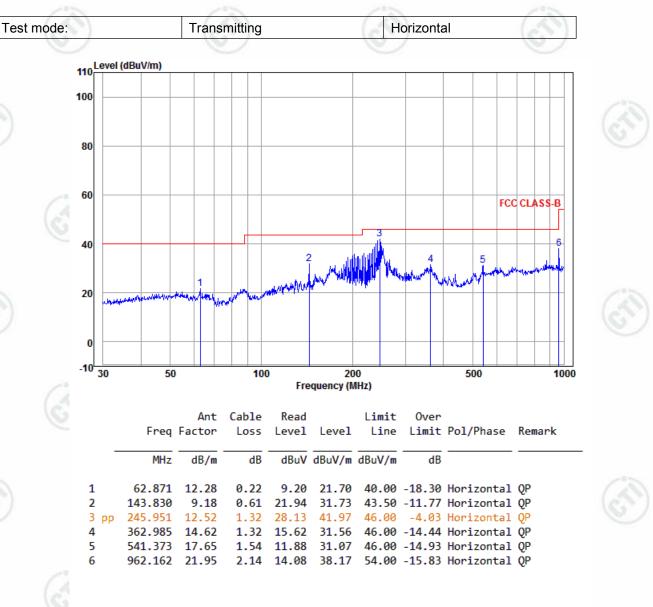
















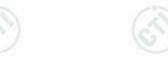
































Transmitter Emission above 1GHz

Worse case mode:		GFSK	(N)	Test channel:		Lowest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1170.959	30.16	1.81	44.43	48.54	36.08	74.00	-37.92	Pass	Н
1286.606	30.43	1.99	44.26	47.79	35.95	74.00	-38.05	Pass	S H
4804.000	34.69	5.98	44.60	48.98	45.05	74.00	-28.95	Pass	Н
6678.987	36.25	7.27	44.57	48.09	47.04	74.00	-26.96	Pass	Н
7206.000	36.42	6.97	44.77	46.30	44.92	74.00	-29.08	Pass	Н
9608.000	37.88	6.98	45.58	46.12	45.40	74.00	-28.60	Pass	Н
1374.639	30.62	2.12	44.15	48.12	36.71	74.00	-37.29	Pass	V
1777.646	31.36	2.61	43.70	47.14	37.41	74.00	-36.59	Pass	V
4804.000	34.69	5.98	44.60	47.30	43.37	74.00	-30.63	Pass	V
5925.863	35.85	7.37	44.51	48.83	47.54	74.00	-26.46	Pass	V
7206.000	36.42	6.97	44.77	47.20	45.82	74.00	-28.18	Pass	V
9608.000	37.88	6.98	45.58	46.07	45.35	74.00	-28.65	Pass	V

Worse case mode:		GFSK	24/11	Test channel:		Middle	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1241.562	30.32	1.93	44.33	48.08	36.00	74.00	-38.00	Pass	/° ∄
1565.200	30.99	2.37	43.92	47.48	36.92	74.00	-37.08	Pass	(NH)
4880.000	34.85	6.13	44.60	47.78	44.16	74.00	-29.84	Pass	H
6063.190	35.93	7.42	44.51	48.68	47.52	74.00	-26.48	Pass	Н
7320.000	36.43	6.85	44.87	47.57	45.98	74.00	-28.02	Pass	Н
9760.000	38.05	7.12	45.55	45.77	45.39	74.00	-28.61	Pass	Н
1267.104	30.38	1.96	44.29	47.83	35.88	74.00	-38.12	Pass	V
1809.605	31.41	2.65	43.67	47.55	37.94	74.00	-36.06	Pass	V
4880.000	34.85	6.13	44.60	47.64	44.02	74.00	-29.98	Pass	V
5631.725	35.62	7.07	44.53	48.70	46.86	74.00	-27.14	Pass	V
7320.000	36.43	6.85	44.87	47.39	45.80	74.00	-28.20	Pass	V
9760.000	38.05	7.12	45.55	46.30	45.92	74.00	-28.08	Pass	V





























Worse case mode:		GFSK		Test channel:		Highest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1313.075	30.49	2.03	44.23	47.78	36.07	74.00	-37.93	Pass	→ H
1533.648	30.93	2.33	43.96	47.56	36.86	74.00	-37.14	Pass	H)
4960.000	35.02	6.29	44.60	47.77	44.48	74.00	-29.52	Pass	H
5865.832	35.80	7.31	44.51	48.23	46.83	74.00	-27.17	Pass	Н
7440.000	36.45	6.73	44.97	47.00	45.21	74.00	-28.79	Pass	Н
9920.000	38.22	7.26	45.52	46.54	46.50	74.00	-27.50	Pass	Н
1289.885	30.43	2.00	44.26	48.08	36.25	74.00	-37.75	Pass	V
1809.605	31.41	2.65	43.67	47.24	37.63	74.00	-36.37	Pass	V
4960.000	35.02	6.29	44.60	49.13	45.84	74.00	-28.16	Pass	V
5910.798	35.83	7.35	44.51	48.98	47.65	74.00	-26.35	Pass	V
7440.000	36.45	6.73	44.97	46.49	44.70	74.00	-29.30	Pass	V
9920.000	38.22	7.26	45.52	46.76	46.72	74.00	-27.28	Pass	V

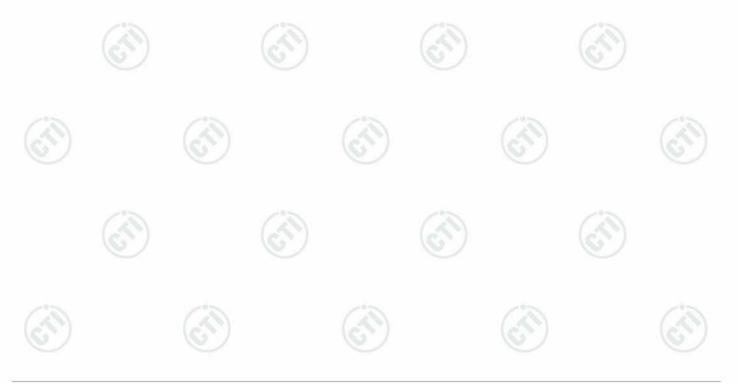
Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading -Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

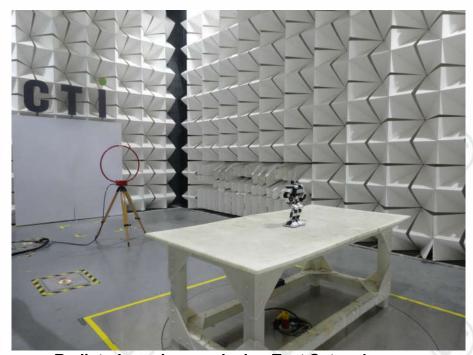






PHOTOGRAPHS OF TEST SETUP

Test model No.: Yanshee



Radiated spurious emission Test Setup-1(9K-30M)



Radiated spurious emission Test Setup-2(30M-1G)



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Radiated spurious emission Test Setup-3(1G-18G)



Radiated spurious emission Test Setup-4(18G-40G)



















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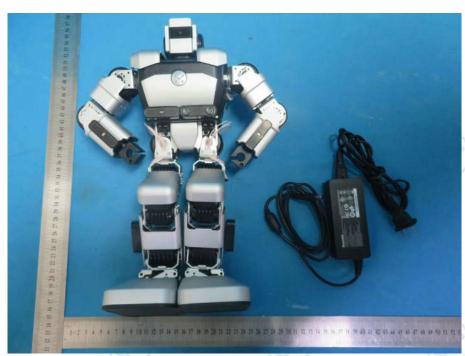






PHOTOGRAPHS OF EUT Constructional Details

Test model No.: Yanshee



View of Product-1



View of Product-2











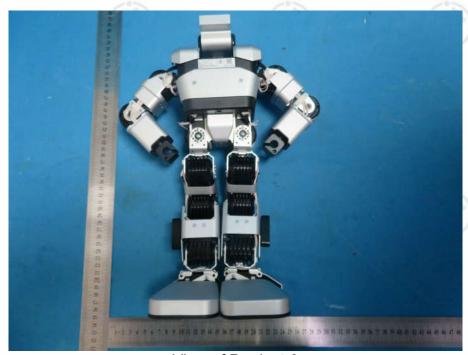












View of Product-3



View of Product-4













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View of Product-5



View of Product-6





















View of Product-7

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 30 30 32 32 34 35



View of Product-8

















View of Product-9



View of Product-10

















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View of Product-11



View of Product-12











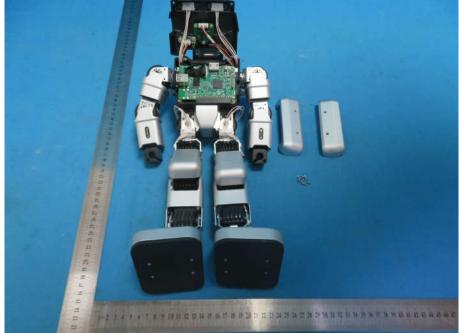












View of Product-13



View of Product-14













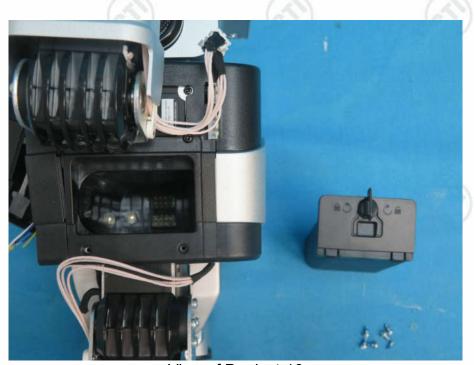








View of Product-15



View of Product-16

















View of Product-17



View of Product-18











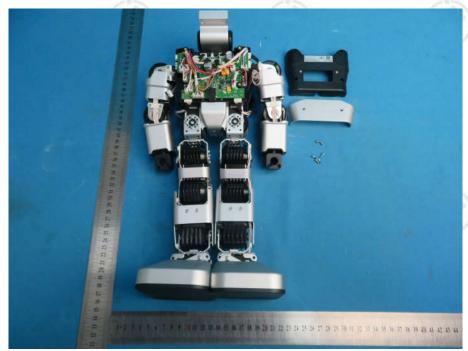




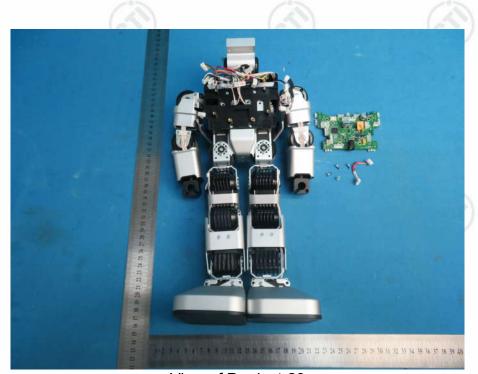








View of Product-19



View of Product-20













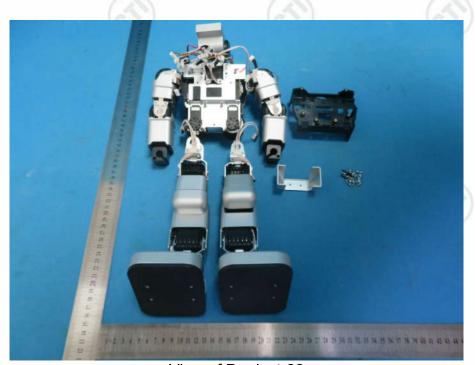








View of Product-21



View of Product-22













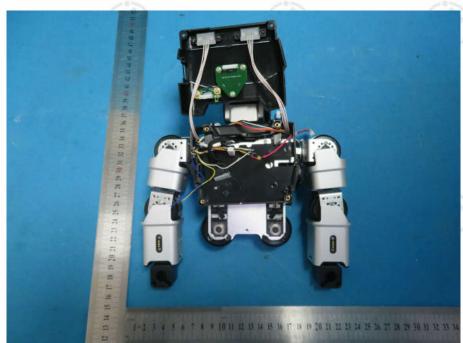


















View of Product-24

















View of Product-25







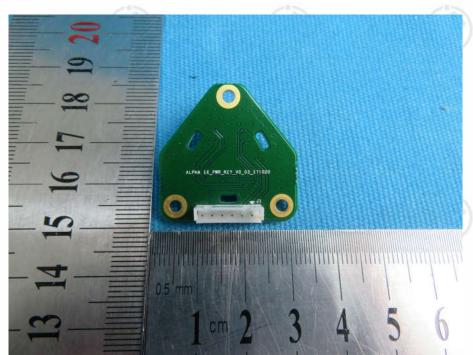












View of Product-27



View of Product-28











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View of Product-29

1-2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32



View of Product-30

























View of Product-31





View of Product-32





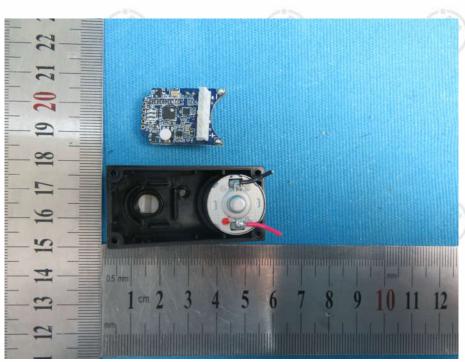




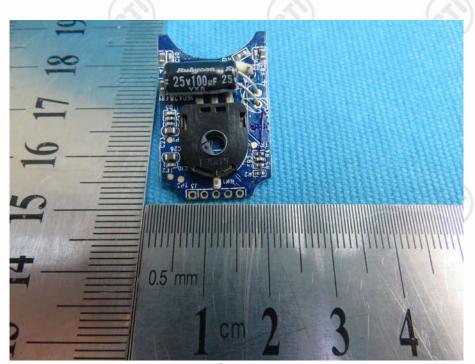








View of Product-33



View of Product-34









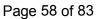














View of Product-35



View of Product-36











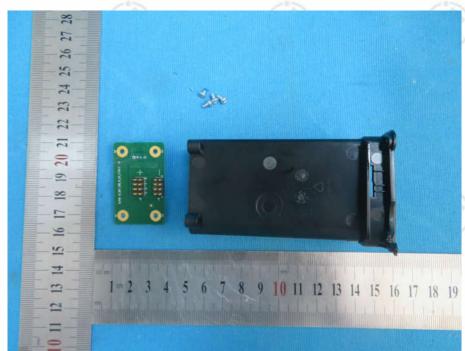




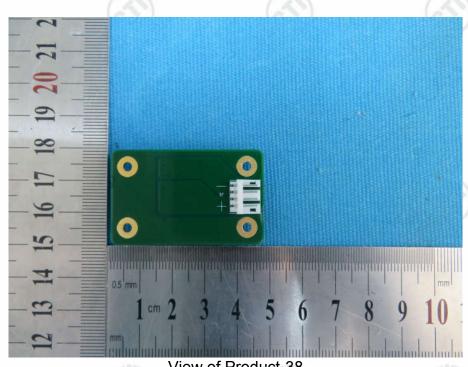




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View of Product-37



View of Product-38











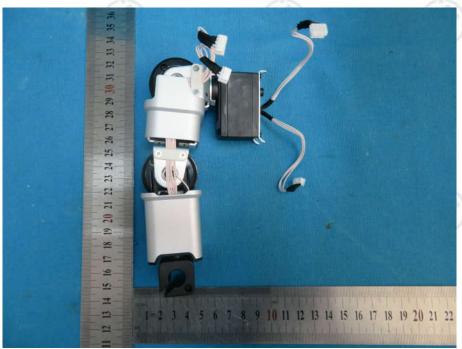








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View of Product-39



View of Product-40















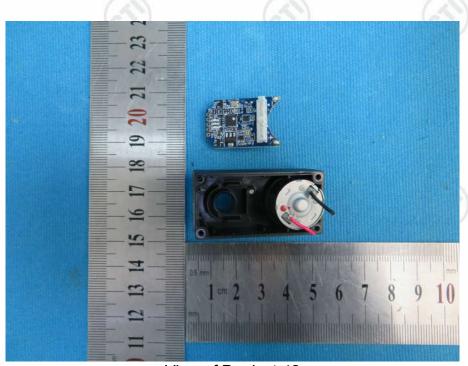




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View of Product-41



View of Product-42





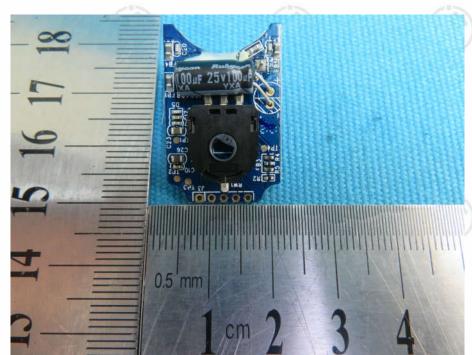








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View of Product-43



View of Product-44











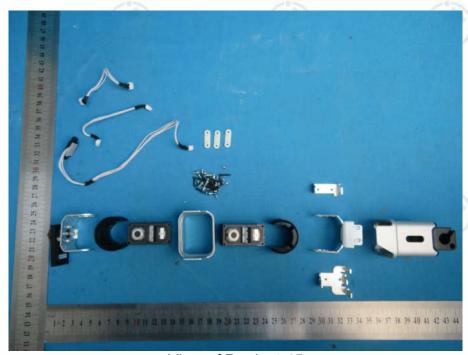




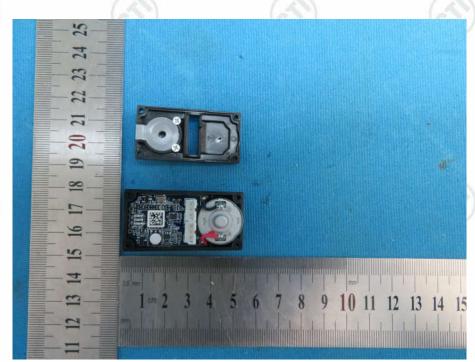








View of Product-45



View of Product-46





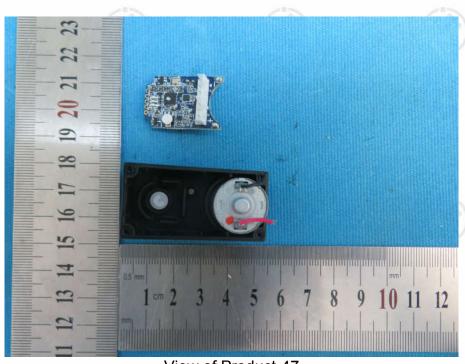




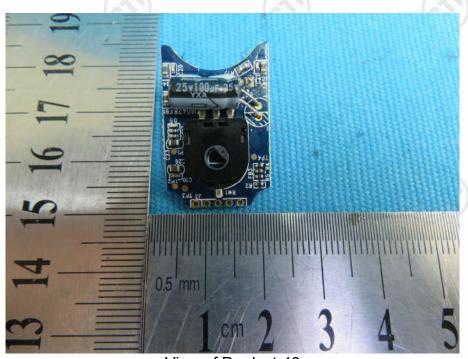








View of Product-47



View of Product-48











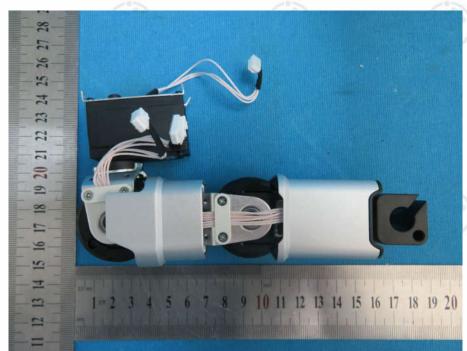








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View of Product-49



View of Product-50





















View of Product-51



View of Product-52









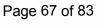


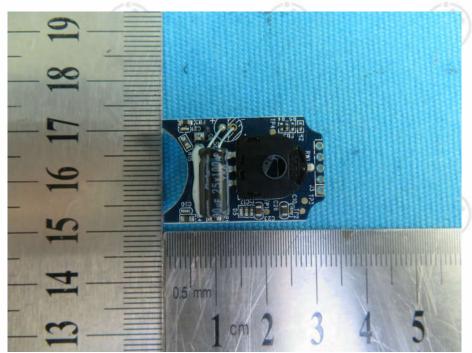




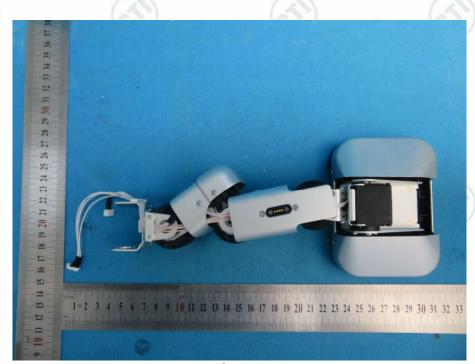








View of Product-53



View of Product-54





















View of Product-55



View of Product-56

















View of Product-57



View of Product-58









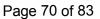


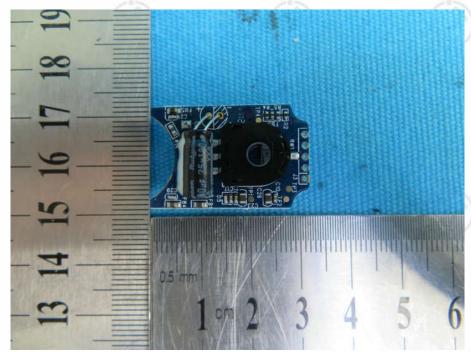












View of Product-59



View of Product-60























View of Product-61



View of Product-62







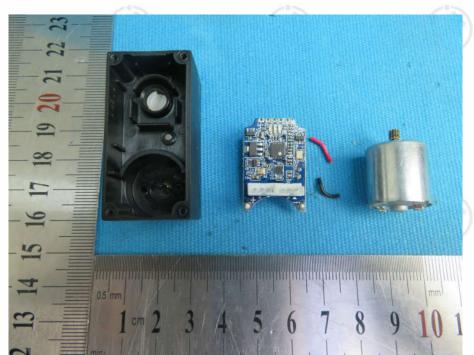




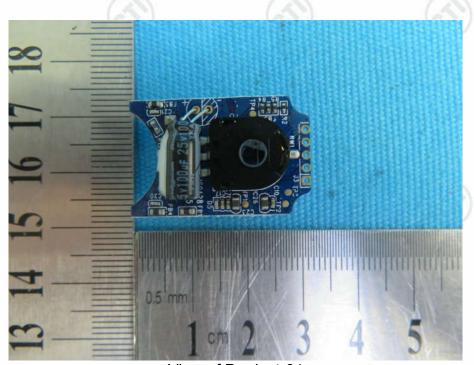












View of Product-64













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View of Product-65



View of Product-66











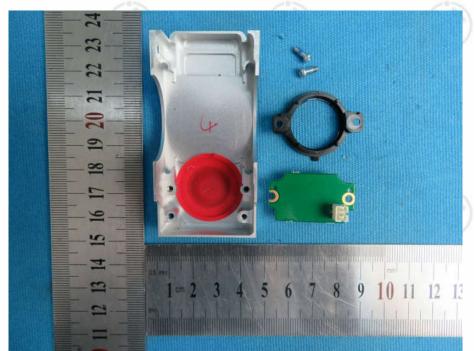


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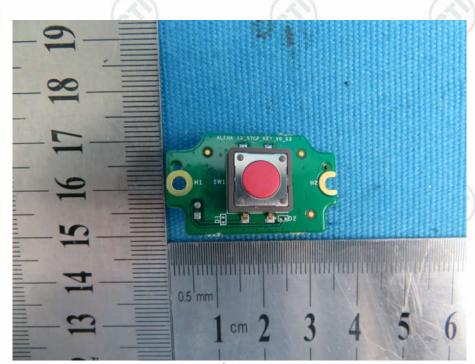








View of Product-67



View of Product-68

















View of Product-69



View of Product-70





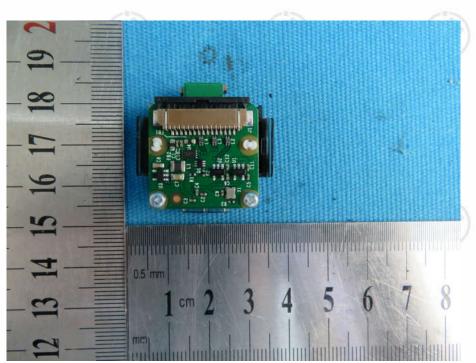




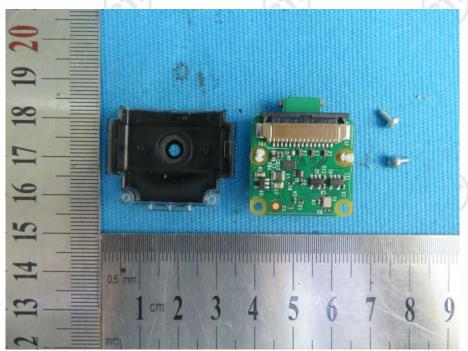








View of Product-71



View of Product-72









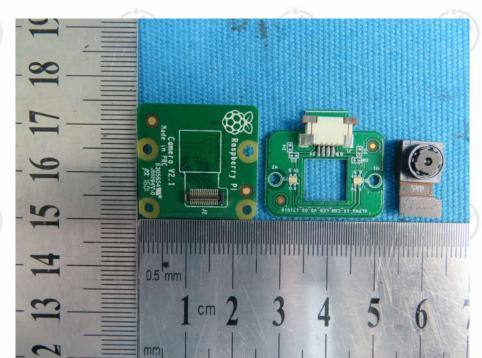




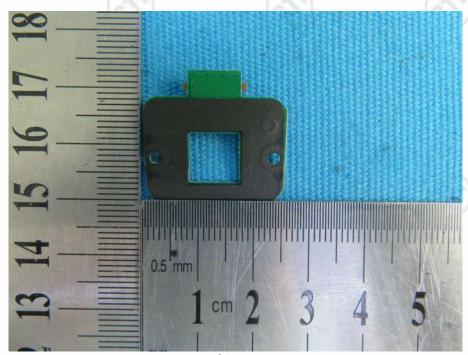












View of Product-74









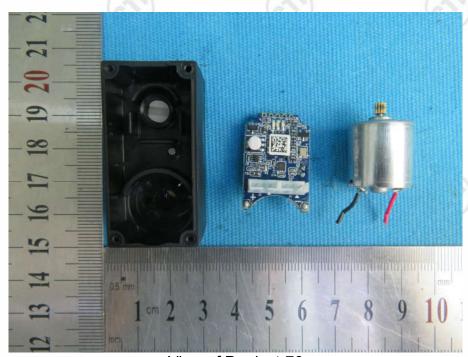








View of Product-75



View of Product-76









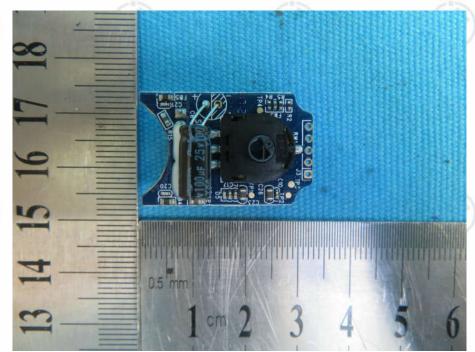












View of Product-77



View of Product-78



















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View of Product-79



View of Product-80



















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View of Product-81



View of Product-82



















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View of Product-83



View of Product-84









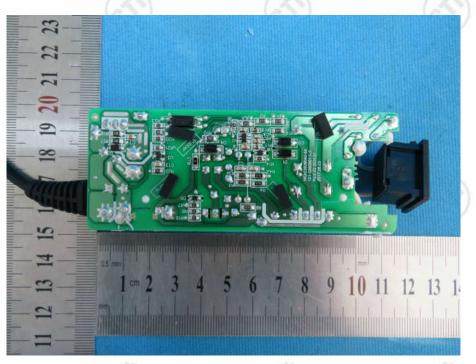




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View of Product-85



View of Product-86

*** End of Report ***

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