

Report No. : EED32K00127801 Page 1 of 83

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:

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Report Sea

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Jul. 19, 2018

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Check No.:3096333402









Page 2 of 83

2 Version

Version No.	Date	6	Description)	
00	00 Jul. 19, 2018		Original	Original	
	(*)	4.5	795	/3	
		(4°2)			











































































Report No.: EED32K00127801 Page 3 of 83

3 Test Summary

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 ANSI C63.10-2013/ KDB 558074 D01v04	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15Subpart C Section 15.247(d)		
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.





Report No.: EED32K00127801 Page 4 of 83

4 Content

1 COVER PAGE				······································
2 VERSION			•••••	
3 TEST SUMMARY				
4 CONTENT				4
5.1.1 For Conduct 5.1.2 For Radiate 5.1.3 For Conduct 5.2 TEST ENVIRONMI	eted test setup ed Emissions test seted Emissions tes ENT	setupt setup		
6 GENERAL INFORM	ATION			
6.2 GENERAL DESCR 6.3 PRODUCT SPECII 6.4 DESCRIPTION OF 6.5 TEST LOCATION 6.6 DEVIATION FROM 6.7 ABNORMALITIES I 6.8 OTHER INFORMA	EPTION OF EUT FICATION SUBJECTIV SUPPORT UNITS STANDARDS FROM STANDARD C TION REQUESTED B	/E TO THIS STANDARD ONDITIONS Y THE CUSTOMER CONFIDENCE LEVELS, K=		
7 EQUIPMENT LIST	•••••			10
8 RADIO TECHNICAL	REQUIREMENTS	S SPECIFICATION		
Appendix B): Cor Appendix C): Bar Appendix D): RF Appendix E): Por Appendix F): Ant Appendix G): AC Appendix H): Res	nducted Peak Outp nd-edge for RF Co Conducted Spuric ver Spectral Densi enna Requirement Power Line Cond	vidth		
PHOTOGRAPHS OF	TEST SETUP			38
PHOTOGRAPHS OF	EUT CONSTRUC	TIONAL DETAILS		4











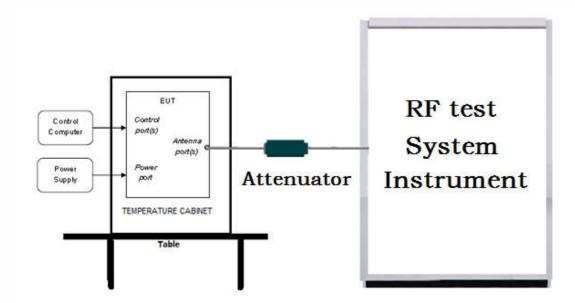


Report No.: EED32K00127801 Page 5 of 83

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:

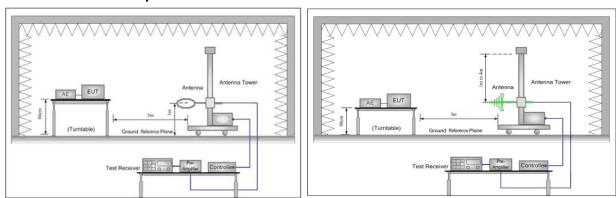


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

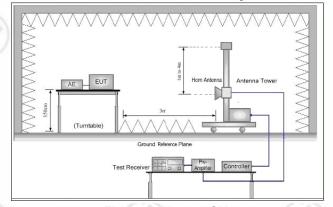


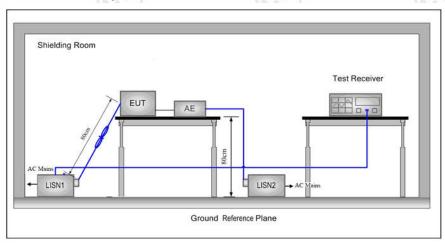
Figure 3. Above 1GHz







5.1.3 For Conducted Emissions test setup Conducted Emissions setup



5.2 Test Environment

Operating Environment:				
Temperature:	24.8 °C			
Humidity:	55 % RH			
Atmospheric Pressure:	1010mbar		1	

5.3 Test Condition

Test channel:

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







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				
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			
(0.)	Battery Rechargable Li-ion Battery 7.24V, 2750mAh, 19.91Wh				
Sample Received Date:	May 24, 2018	3			
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)	1
Antenna Type and Gain:	Type: Ceramic antenna Gain: 1.8dBi	
Test Voltage:	AC 120V, 60Hz	





Report No.: EED32K00127801 Page 8 of 83

				100		705	_
Operation F	requency eac	h of channe	l			(3)	
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.





























Report No. : EED32K00127801 Page 9 of 83

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%























































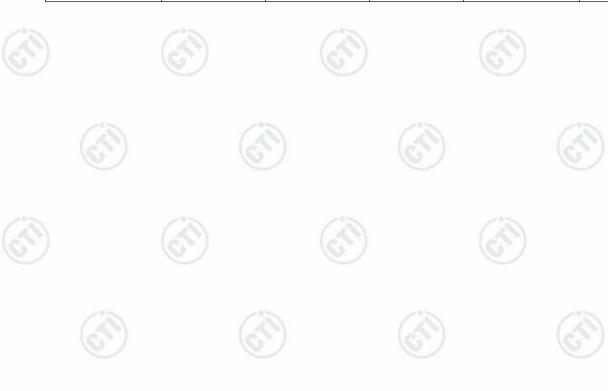


Report No. : EED32K00127801 Page 10 of 83

7 Equipment List

Conducted disturbance Test							
Equipment	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		

		55.0			
		RF Condu	ucted 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





Report No. : EED32K00127801 Page 11 of 83

(, 0)	3M	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	- (E)	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















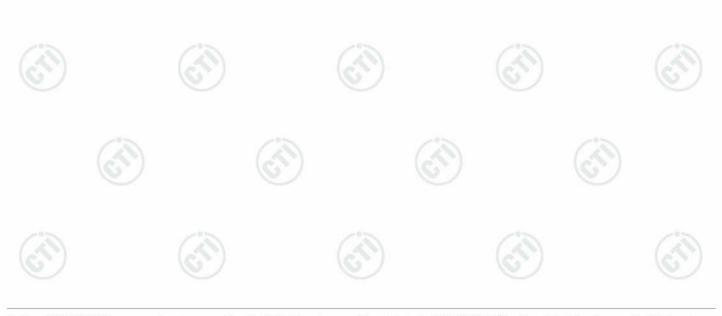
8 Radio Technical Requirements Specification

Reference documents for testing:

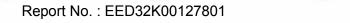
No.	Identity	Document Title
1	FCC Part 15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices

Test Results List:

oot itoouito moti				
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)





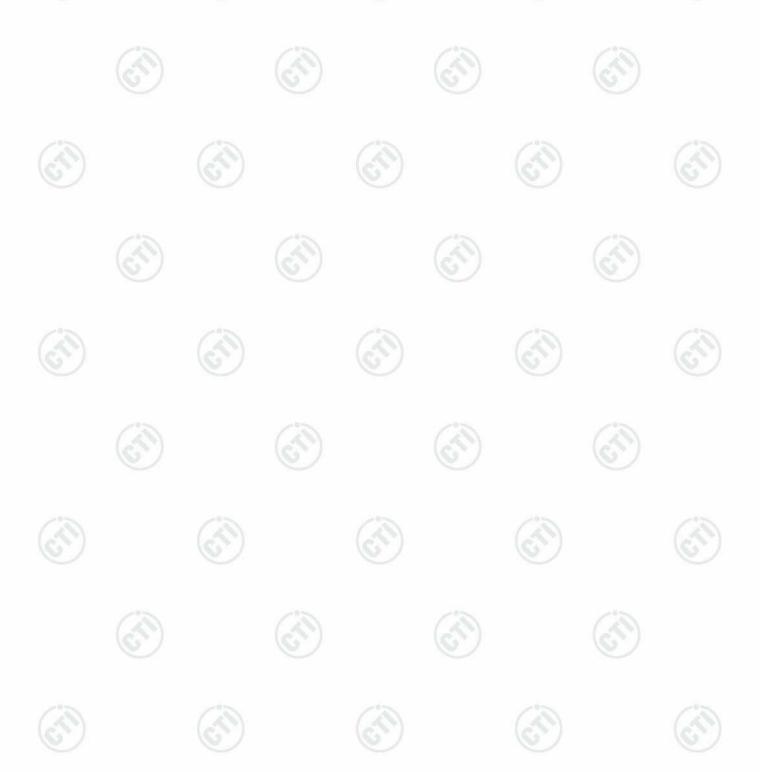


Page 13 of 83

Appendix A): 6dB Occupied Bandwidth

Test Result

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









Test Graphs



















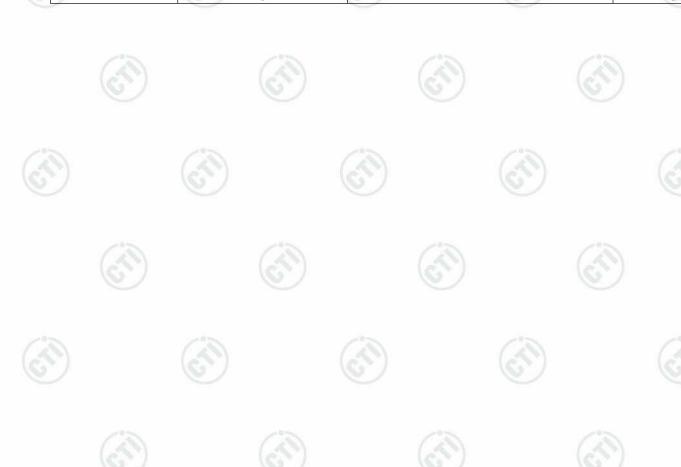


Page 15 of 83

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



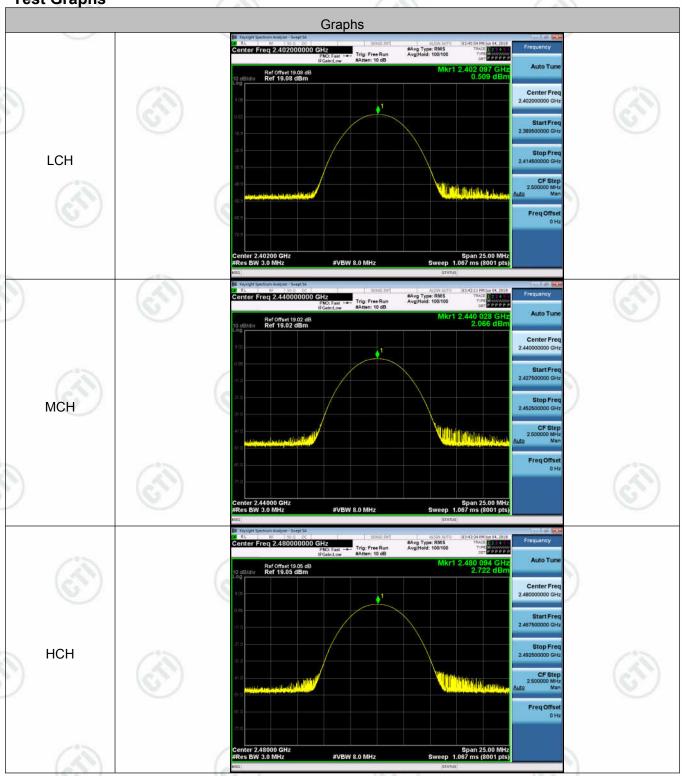








Test Graphs













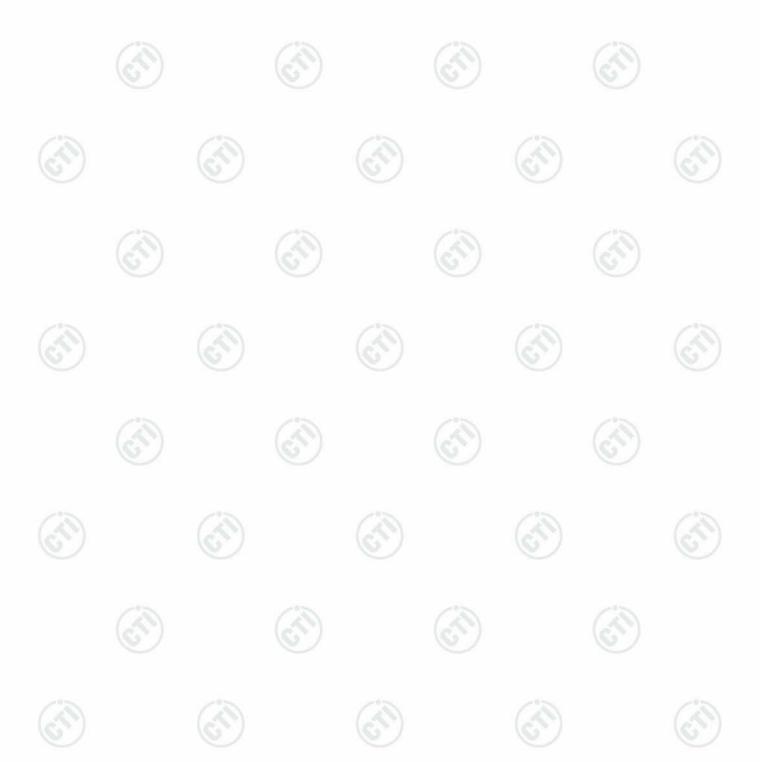


Report No.: EED32K00127801 Page 17 of 83

Appendix C): Band-edge for RF Conducted Emissions

Result Table

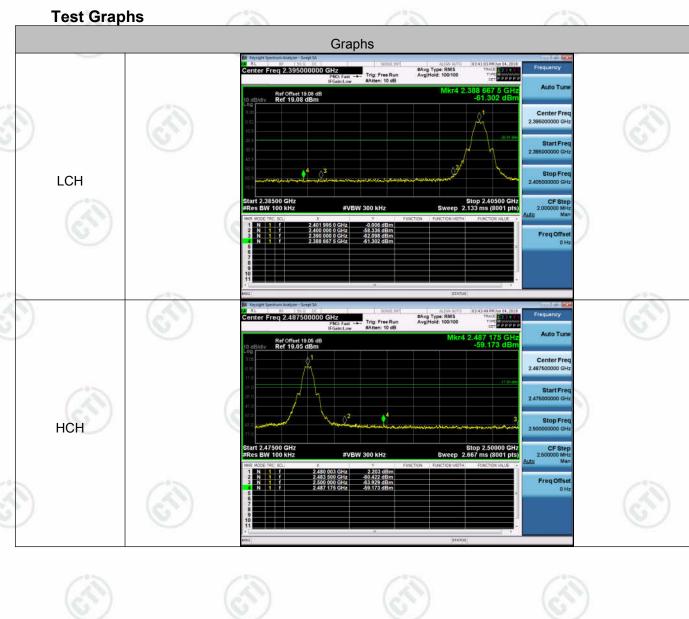
Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	-0.006	-61.302	-20.01	PASS
BLE	нсн	2.203	-59.173	-17.8	PASS





































Page 19 of 83

Appendix D): RF Conducted Spurious Emissions

Result Table

5.307 /		1 to 2		-
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	нсн	1.998	<limit< td=""><td>PASS</td></limit<>	PASS





































































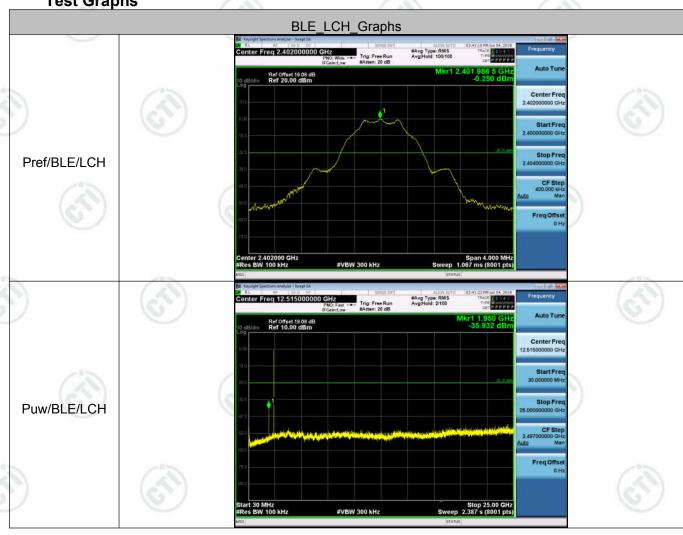


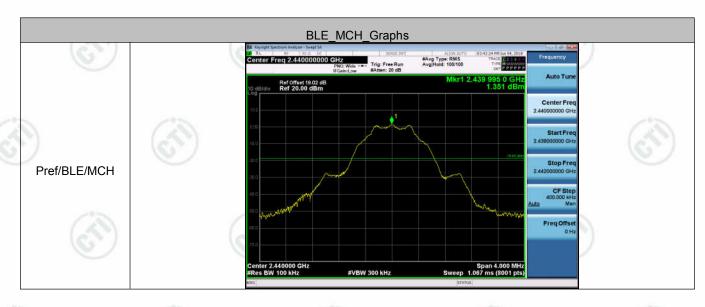




Page 20 of 83 Report No.: EED32K00127801

Test Graphs



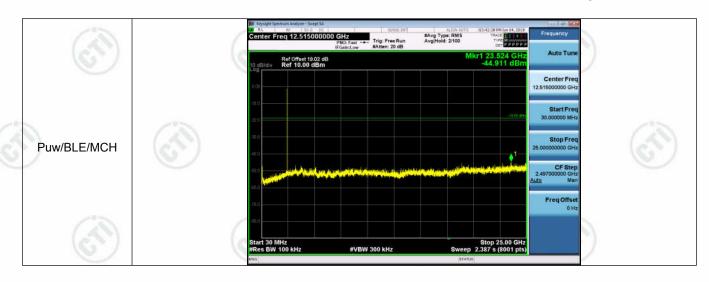


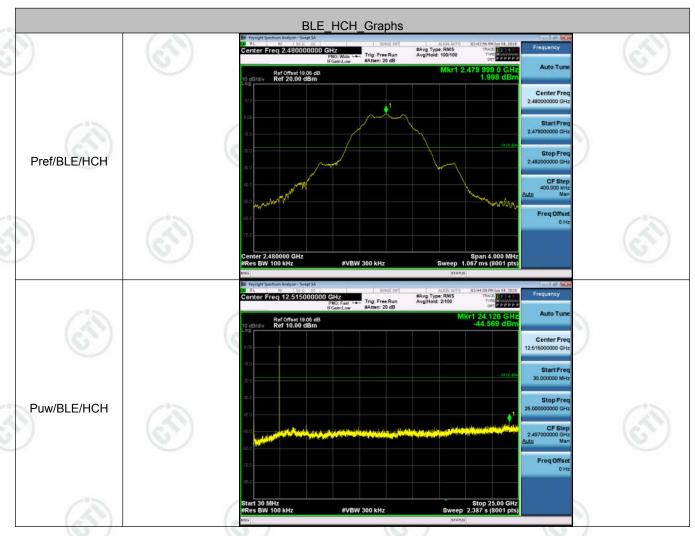






























Appendix E): Power Spectral Density

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































































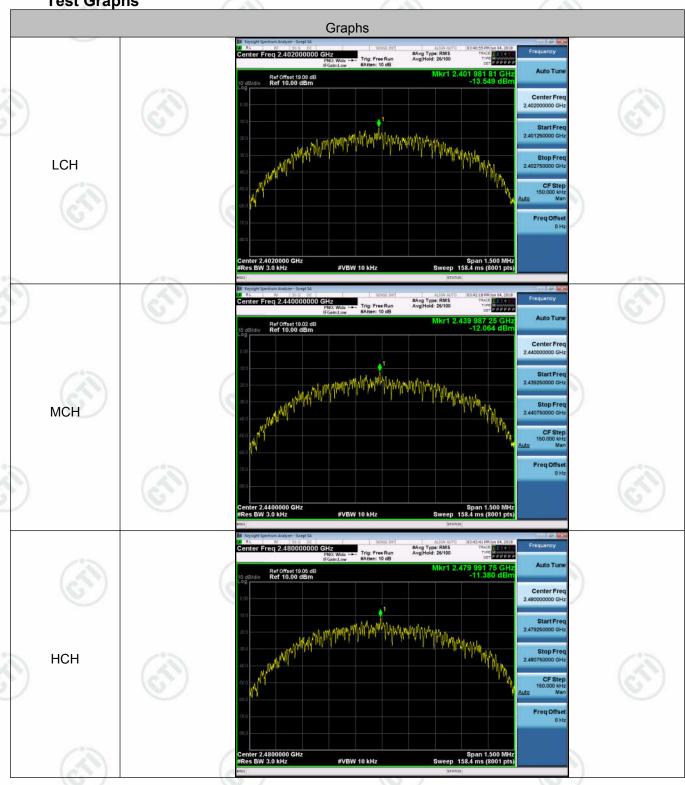








Test Graphs

















Appendix F): Antenna Requirement

15.203 requirement:

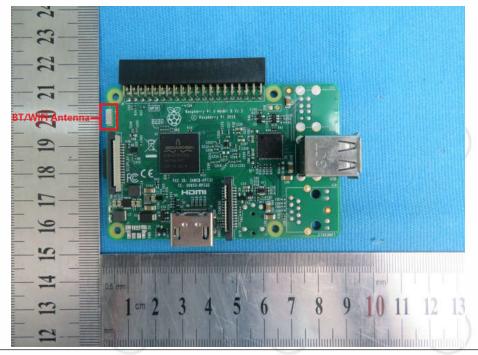
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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.













Page 25 of 83

Appendix G): AC Power Line Conducted Emission

exceeded.

Test Procedure: 1) 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 50Ω/50μH + 5Ω 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

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,

multiple power cables to a single LISN provided the rating of the LISN was not

- 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:

Fragues et range (MIII-)	Limit (c	lΒμV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
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.

Measurement Data

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

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.























NOTE: The lower limit is applicable at the transition frequency

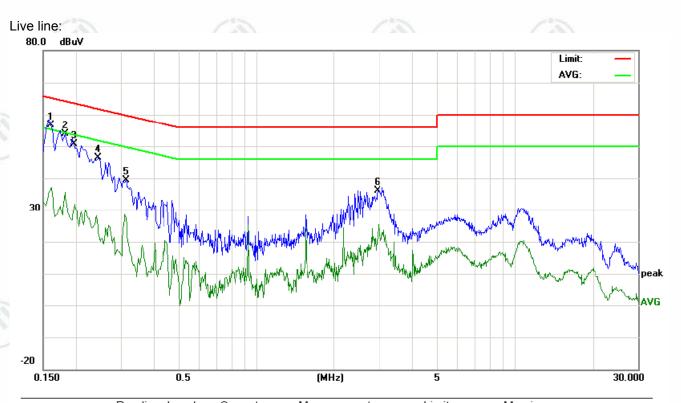








Page 26 of 83



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	

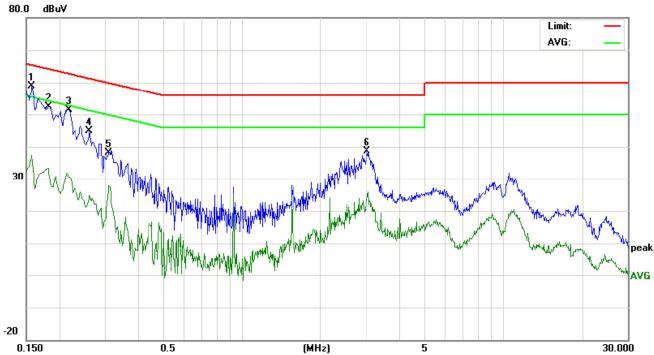






Page 27 of 83





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	G 7 /	
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	<
	AL 40H	Peak	1MHz	3MHz	Peak	100
	Above 1GHz	Peak	1MHz	10Hz	Average	(65)
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 turned from 0 degular entermine them.	re as below: In the top of a rotal choic camber. The of the highest racters away from the pof a variable-heavaried from one non value of the fielenna are set to mission, the EUT to heights from the rees to 360 degreem was set to Pears	ating table e table was diation. The interfere eight antenneter to found strength hake the mass arrang meter to ees to find	0.8 meters rotated 3 ence-receing tower. Use the meters at the maxim	rs above the 360 degrees ving antenna above the grizontal and vent. worst case along the rotation of the rotat	to a, whice round to retrica nd the able
	f. Place a marker at the e frequency to show combands. Save the spect	end of the restrictentiance. Also me	asure any	emissions	s in the restri	
	f. Place a marker at the	end of the restricted pliance. Also me turn analyzer plot channel Ire as below: Ire is the test site, ber change form 1 meter and table lewest channel, the ments are perforred found the X axis	change from table 0.8 resis 1.5 metone Highest med in X, Ns positionir	emissions or each po om Semi- meter to 1 er). channel Y, Z axis p ng which i	Anechoic Ch .5 meter(Ab	dulation nambe ove
Limit:	f. Place a marker at the efrequency to show combands. Save the spectror for lowest and highest Above 1GHz test procedures. Different between above to fully Anechoic Chamman 18GHz the distance is h. Test the EUT in the lowest in the radiation measure Transmitting mode, and	end of the restricted pliance. Also me turn analyzer plot channel Ire as below: Ire is the test site, ber change form 1 meter and table lewest channel, the ments are perforred found the X axis	change from table 0.8 resis 1.5 metonic in X, is positionir encies mea	emissions or each poor each poor semi-meter to 1 er). channel Y, Z axis pong which it asured wa	Anechoic Ch .5 meter(Ab	dulation nambe ove
imit:	f. Place a marker at the effrequency to show combands. Save the spectror for 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.	end of the restricted pliance. Also me trum analyzer plot channel Ire as below: Ire is the test site, ber change form 1 meter and table owest channel, the ments are perforred found the X axis tres until all frequents.	change from table 0.8 resis 1.5 metonic in X, is positionir encies mea	emissions or each poor each poor semi-meter to 1 er). channel Y, Z axis pong which it asured wa	Anechoic Ch.5 meter(Ab	dulation nambe ove
imit:	f. Place a marker at the end frequency to show combands. Save the spectra for lowest and highest. Above 1GHz test procedure. G. Different between above to fully Anechoic Chamman 18GHz the distance is how to fully Anechoic Chamman 18GHz the EUT in the low in the radiation measure. Transmitting mode, and in the procedure. Frequency	end of the restricted pliance. Also me rum analyzer plot channel are as below: The rest is the test site, and table to be the change form the rest channel, the rest are performed found the X axis rest until all frequents (dBµV/n).	change from table 0.8 resis 1.5 metonic in X, is positionir encies mea	om Semi- meter to 1 er). channel Y, Z axis p ng which it asured wa Rer Quasi-pe	Anechoic Ch.5 meter(Ab	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 Chammand 18GHz the distance is how to fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the distance is how the fully Anechoic Chammand 18GHz the fully Anechoic Chamman	end of the restricted pliance. Also me turn analyzer plot channel The as below: The is the test site, ber change form 1 meter and table towest channel, the ments are performed found the X axis tes until all frequences. Limit (dBµV/m 40.0)	change from table 0.8 resis 1.5 metonic in X, is positionir encies mea	emissions or each poor eac	Anechoic Cr.5 meter(Abecositioning for tis worse cast complete. mark eak Value	nambe ove
Limit:	f. Place a marker at the end frequency to show combands. Save the spectron for lowest and highest. Above 1GHz test procedured g. Different between above to fully Anechoic Chamman 18GHz the distance is how to fully Anechoic Chamman 18GHz the EUT in the low in the radiation measure Transmitting mode, and journal procedured in the procedure in th	end of the restricted pliance. Also me rum analyzer plot channel Ire as below: Ire is the test site, ber change form 1 meter and table lowest channel, the ments are performed found the X axis res until all frequences. Limit (dBµV/n 40.0 43.5	change from table 0.8 resis 1.5 metonic in X, is positionir encies mea	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 horizontal to the fully Anechoic Chammand 18GHz the distance is horizontal to the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the distance is horizontal the fully Anechoic Chammand 18GHz the fully Anecho	end of the restricted pliance. Also me trum analyzer plot channel Ire as below: The is the test site, ber change form 1 meter and table towest channel, the ments are performed found the X axis res until all frequency Limit (dBµV/n 40.0 43.5 46.0	change from table 0.8 resis 1.5 metonic in X, is positionir encies mea	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

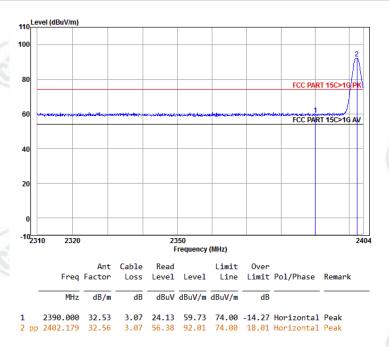




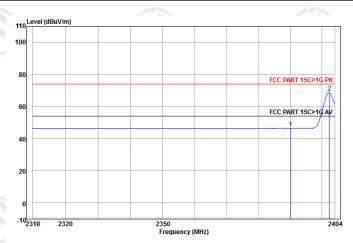
Page 29 of 83

Test plot as follows:

Worse case mode:	GFSK		(6,5)
Frequency: 2402MHz	Test channel: Lowest	Polarization: Horizontal	Remark: Peak



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



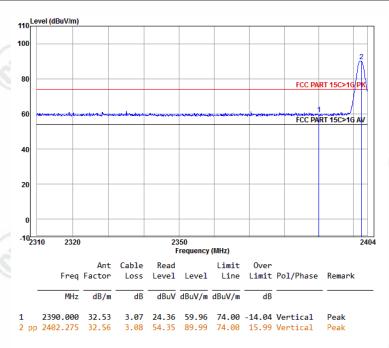
	Freq		Cable Loss			Limit Line		Pol/Phase	Remark
	MHz	dB/m	dB	dBuV	dBu V/m	dBuV/m	dB		
1 2 pp								Horizontal Horizontal	



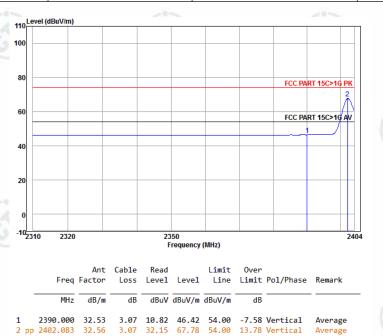


Page 30 of 83

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



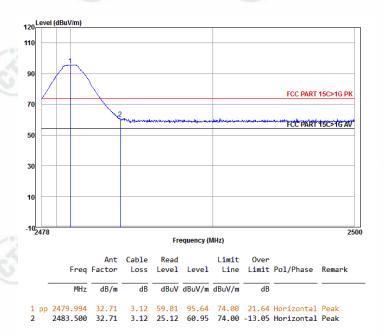




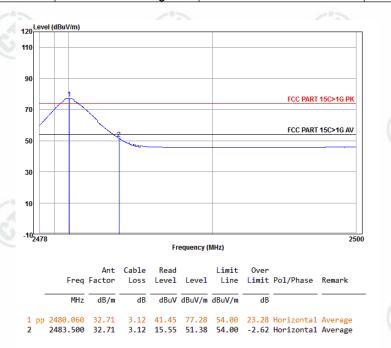


Page 31 of 83

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



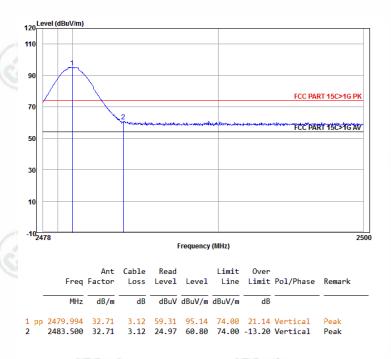
Worse case mode:	GFSK		
Frequency: 2480MHz	Test channel: Highest	Polarization: Horizontal	Remark: Average



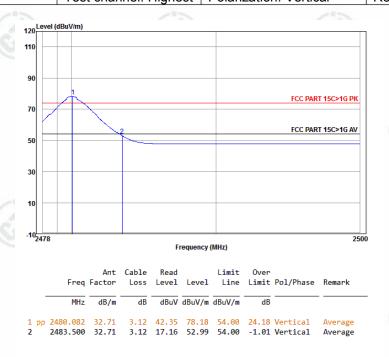


Page 32 of 83

Worse case mode:	GFSK	(25)	(85)	
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,
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	
Al 4011-	Peak	1MHz	3MHz	Peak	
Above 1GHz	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:

Limit:

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.

Field strength Limit

Measurement

3

3

Repeat above procedures until all frequencies measured was complete.

960MHz-1GHz

Above 1GHz

	Frequency	(microvolt/meter)	(dBµV/m)	Remark	distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-		300
	0.490MHz-1.705MHz	24000/F(kHz)	-		30
/	1.705MHz-30MHz	30	-		30
	30MHz-88MHz	100	40.0	Quasi-peak	3
1000	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Ouasi-neak	3

500

500

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.

54.0

54.0

Quasi-peak

Average



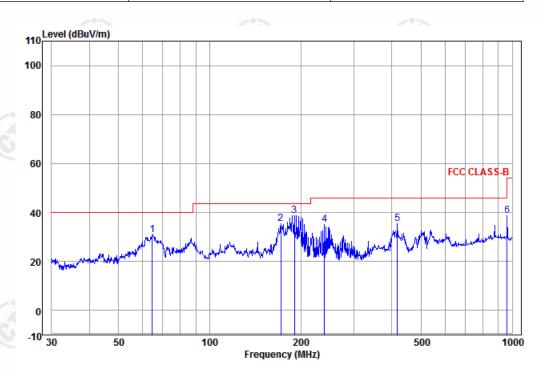






Radiated Spurious Emissions test Data: Radiated Emission below 1GHz

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
6	962.162	21.95	2.14	14.69	38.78	54.00	-15.22	Vertical	QP

























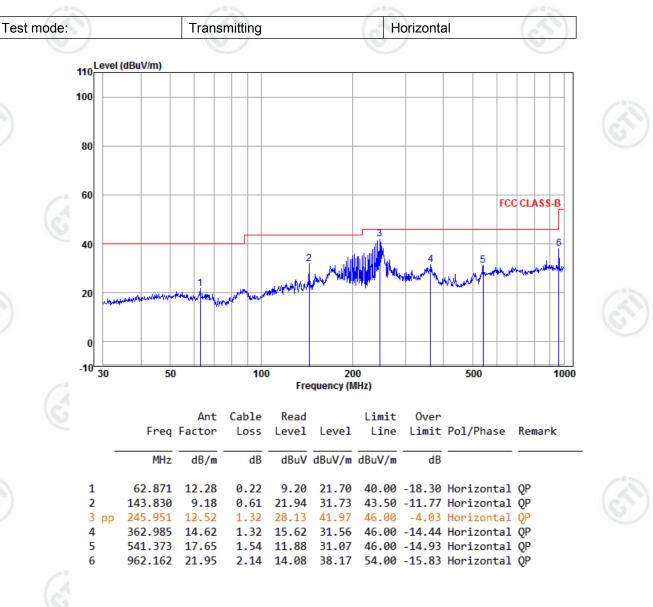
















































Page 36 of 83

Transmitter Emission above 1GHz

Worse case mode:		GFSK	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	C 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		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	Н
1565.200	30.99	2.37	43.92	47.48	36.92	74.00	-37.08	Pass	H
4880.000	34.85	6.13	44.60	47.78	44.16	74.00	-29.84	Pass	Н
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



























200									
nark: Peak									
over it (dB)	Result	Antenna Polaxis							

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.

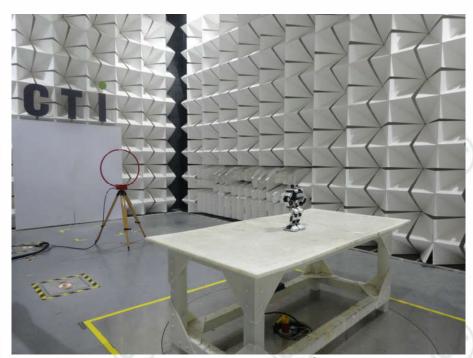






PHOTOGRAPHS OF TEST SETUP

Test model No.: Yanshee



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



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







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



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



















Page 40 of 83





































































PHOTOGRAPHS OF EUT Constructional Details

Test model No.: Yanshee



View of Product-1



View of Product-2











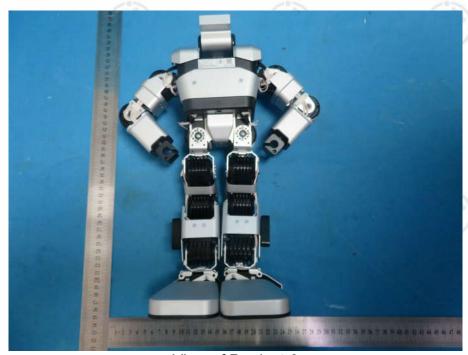












View of Product-3



View of Product-4













Report No.: EED32K00127801 Page 43 of 83



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

















Page 46 of 83



View of Product-11



View of Product-12











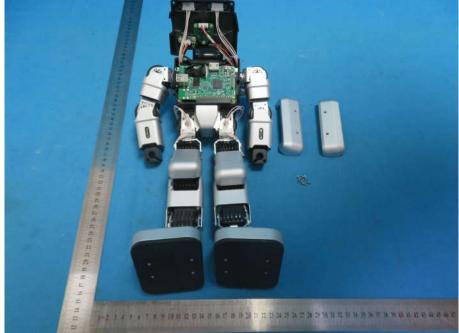












View of Product-13



View of Product-14













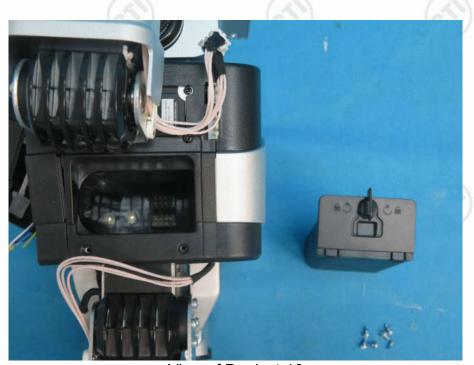








View of Product-15



View of Product-16

















View of Product-17



View of Product-18











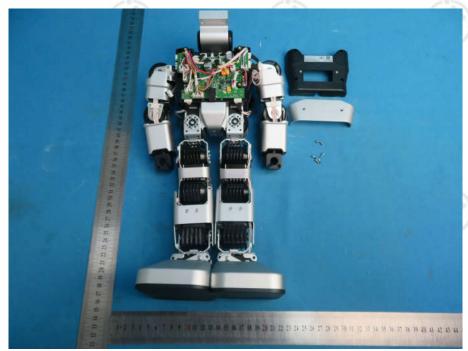




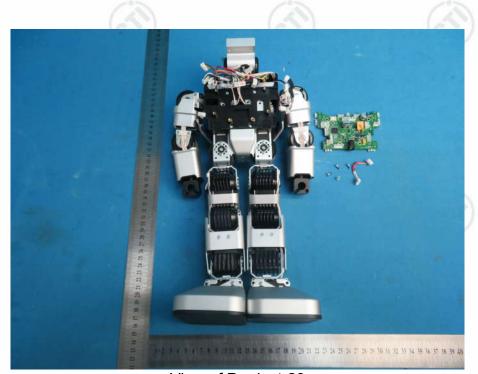








View of Product-19



View of Product-20













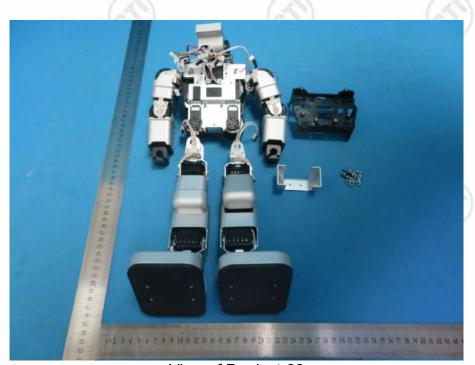








View of Product-21



View of Product-22













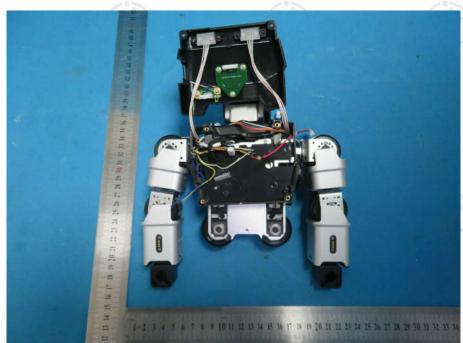


















View of Product-24

















View of Product-25







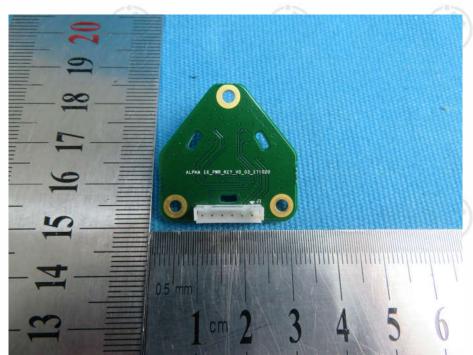




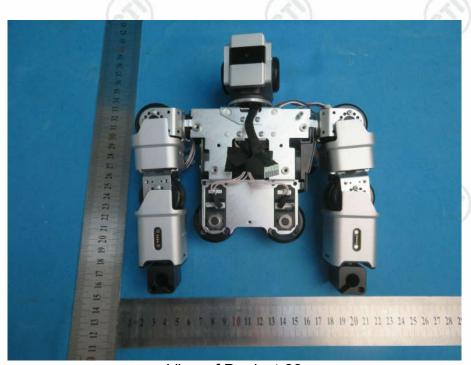








View of Product-27



View of Product-28











Page 54 of 83











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





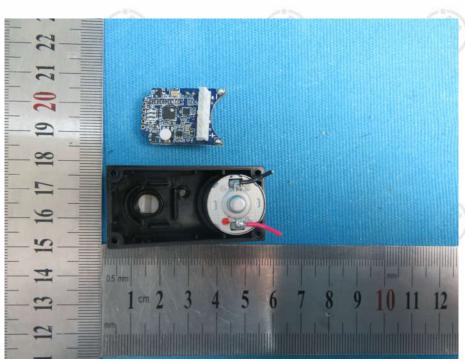




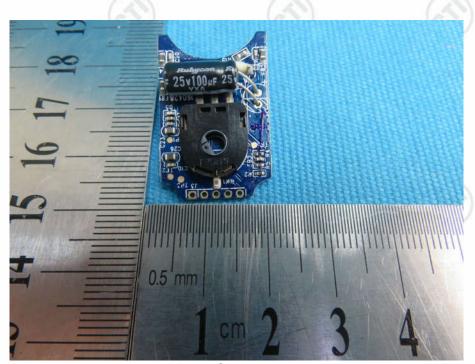








View of Product-33



View of Product-34









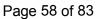














View of Product-35



View of Product-36















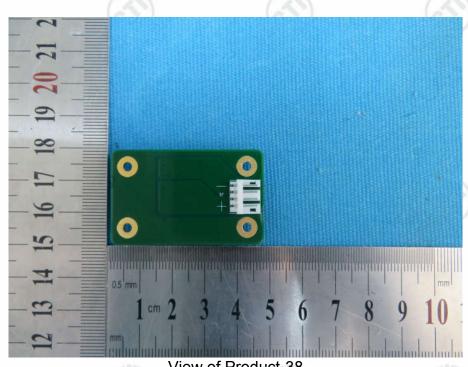




Page 59 of 83



View of Product-37



View of Product-38











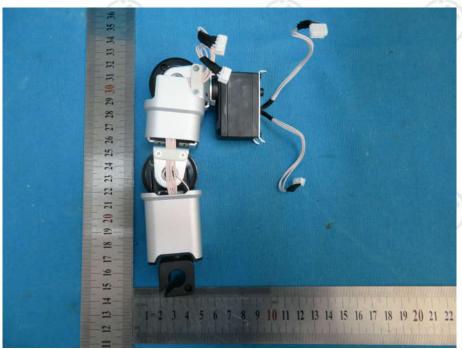








Page 60 of 83



View of Product-39



View of Product-40











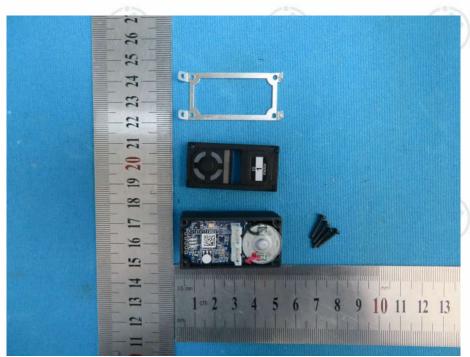




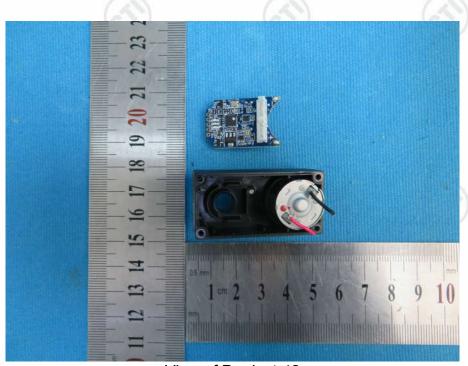




Page 61 of 83



View of Product-41



View of Product-42





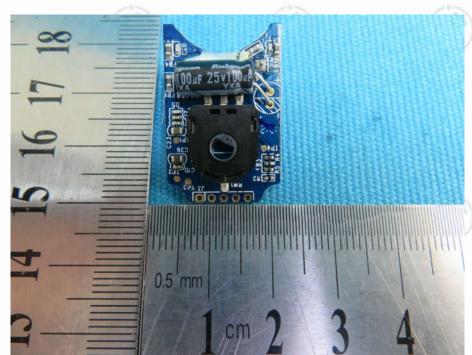








Report No. : EED32K00127801 Page 62 of 83



View of Product-43



View of Product-44











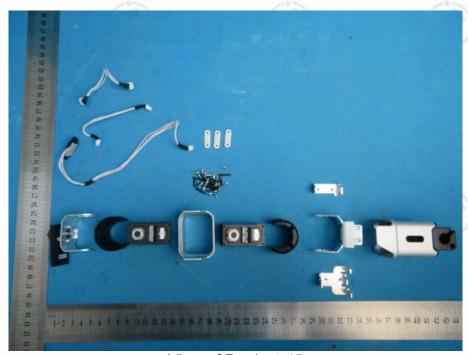




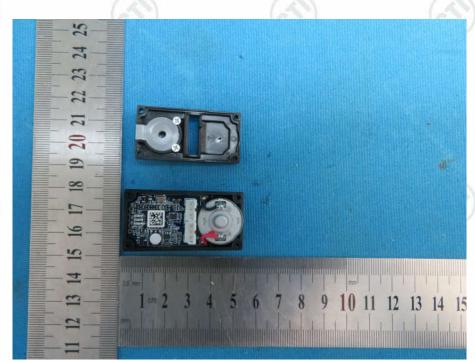








View of Product-45



View of Product-46





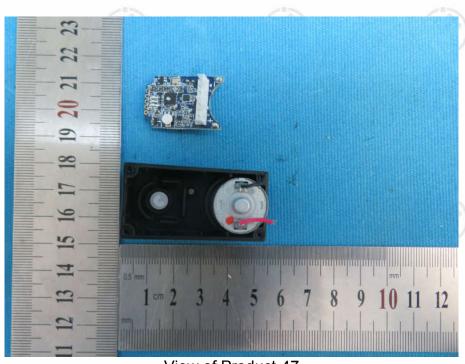




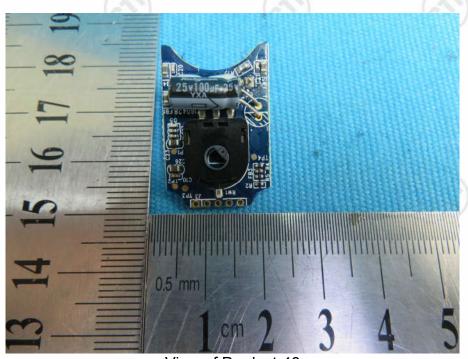








View of Product-47



View of Product-48











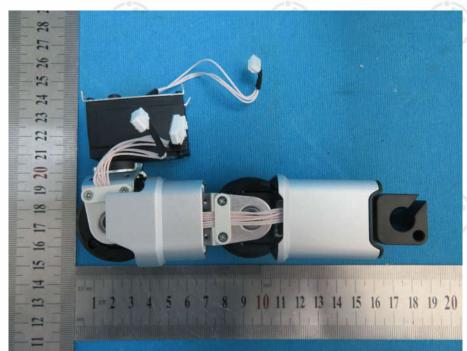








Page 65 of 83



View of Product-49



View of Product-50













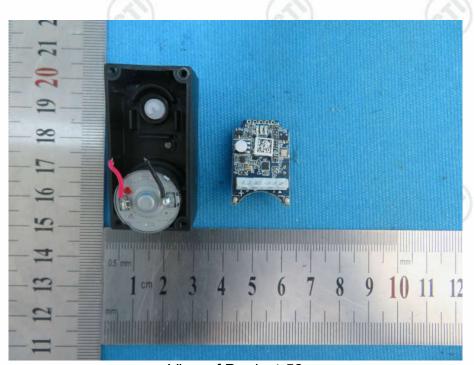








View of Product-51



View of Product-52









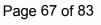


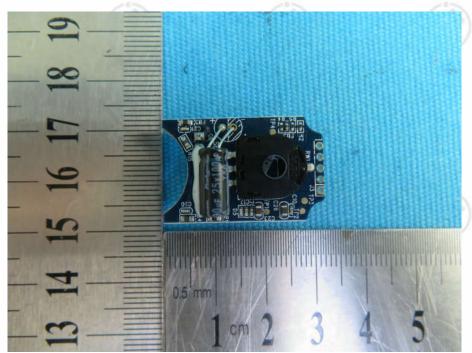




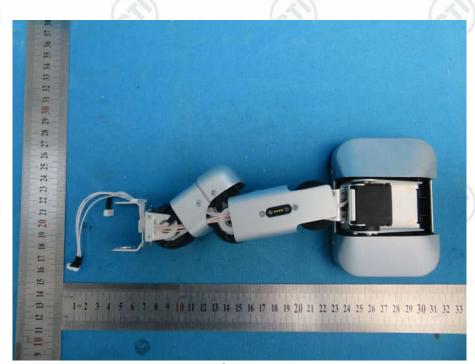








View of Product-53



View of Product-54





















View of Product-55



View of Product-56

















View of Product-57



View of Product-58









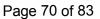


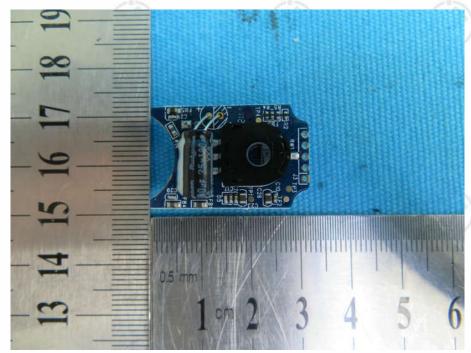












View of Product-59



View of Product-60























View of Product-61



View of Product-62







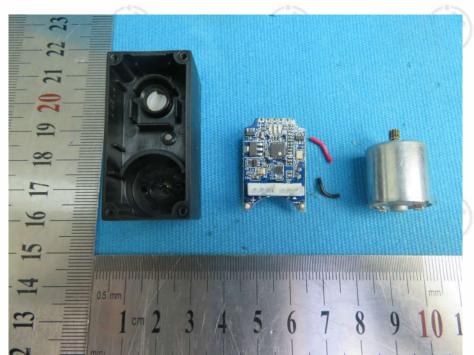




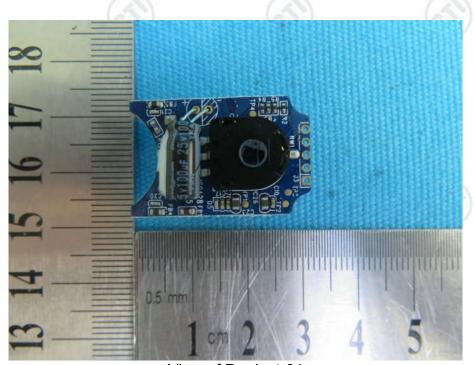












View of Product-64













Page 73 of 83



View of Product-65



View of Product-66











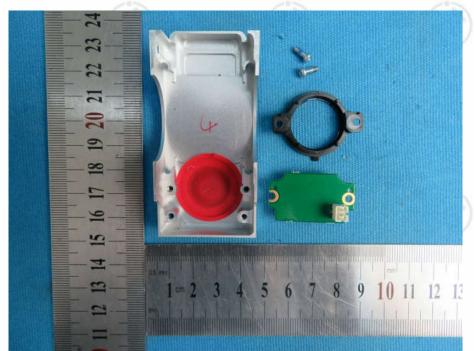


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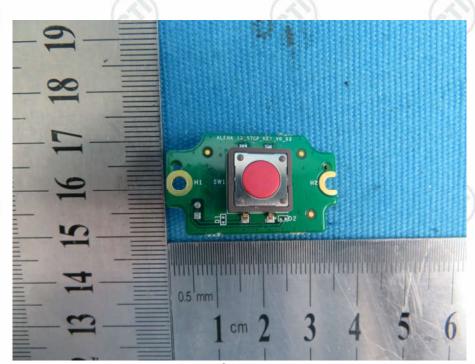








View of Product-67



View of Product-68

















View of Product-69



View of Product-70





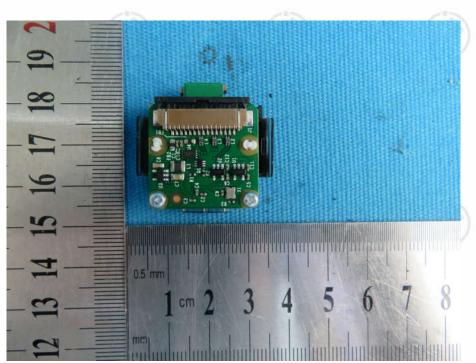




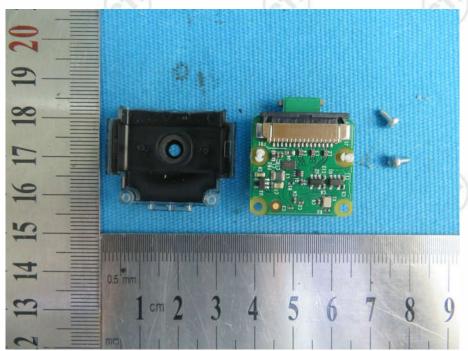








View of Product-71



View of Product-72









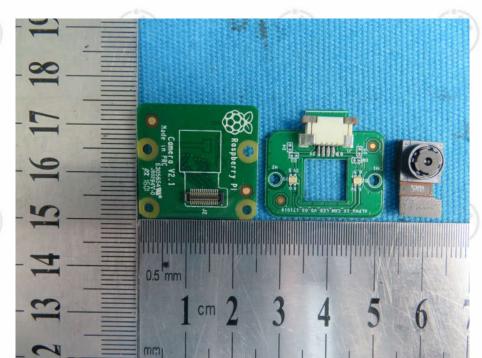




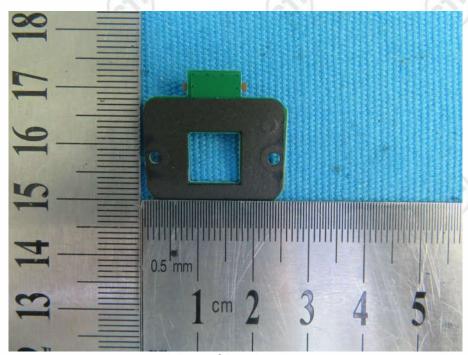












View of Product-74

















View of Product-75



View of Product-76









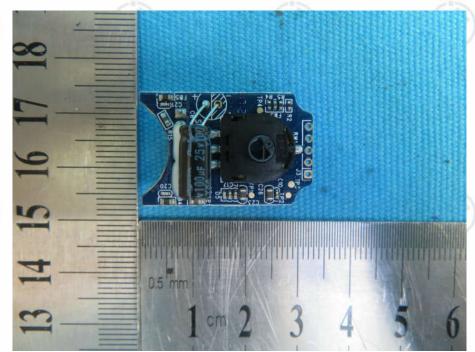












View of Product-77



View of Product-78















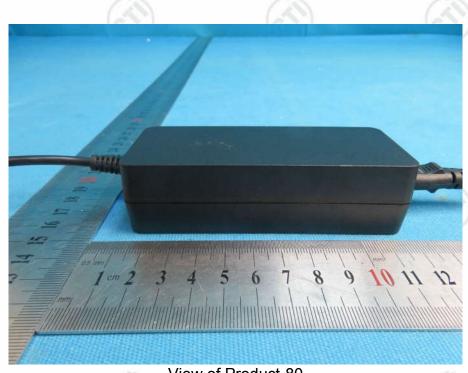




Page 80 of 83



View of Product-79



View of Product-80



















Page 81 of 83



View of Product-81



View of Product-82



















Page 82 of 83



View of Product-83



View of Product-84









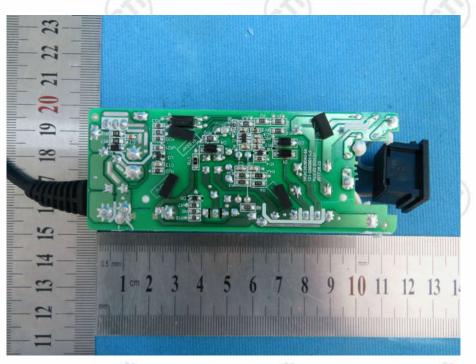




Report No.: EED32K00127801 Page 83 of 83



View of Product-85



View of Product-86

*** End of Report ***

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