

Report No.: EED32N81477101 Page 1 of 43

TEST REPORT

Product DREO BABY MONITOR

Trade mark **DREO**

DR-BBM001, WDR-BM001 Model/Type reference

Serial Number N/A

Report Number EED32N81477101 FCC ID 2A3SY-BBM001

Mar. 04. 2022 Date of Issue

47 CFR Part 15 Subpart C **Test Standards**

Test result **PASS**

Prepared for:

Hesung Innovation Limited Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon

Prepared by:

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

> TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Compiled by:

Report Seal

Reviewed by:

Mark Chen David Wang

Date:

Aaron Ma Mar. 04, 2022

David Wang

Check No.:4425311221

















Contents

							Page
1 CONTENTS							
2 VERSION							
3 TEST SUMMA	RY	••••••	•••••	•••••	•••••		4
4 GENERAL INF	ORMATION	•••••	•••••	••••••	•••••		5
4.1 CLIENT INF							
4.2 GENERAL I 4.3 TEST ENVI							
4.4 DESCRIPTI							
5 TEST RESULT	S AND MEAS	SUREMENT	DATA	•••••	•••••	•••••	10
5.1 ANTENNA F	REQUIREMENT.				-0		10
5.2 AC POWER							
5.3 MAXIMUM (5.4 20DB EMIS							
5.5 CARRIER F							
5.6 NUMBER O							
5.7 TIME OF O 5.8 BAND EDG							
5.9 CONDUCTE	D Spurious E	MISSIONS					20
5.10 PSEUDOR 5.11 RADIATED							
_							
6 APPENDIX A							
7 PHOTOGRAP							
8 PHOTOGRAP	HS OF EUT C	ONSTRUCT	IONAL DETA	LS	•••••	•••••	36



Report No.: EED32N81477101



Version

Version No.	Date	Description	-05
00	Mar. 04, 2022	Original	(21)















Report No. : EED32N81477101 Page 4 of 43



Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	PASS
Maximum Conducted Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	PASS
20dB Emission Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Carrier Frequency Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Number of Hopping Channels	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Time of Occupancy	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)	PASS
Band Edge Measurements	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS
Restricted bands around fundamental frequency	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: DR-BBM001, WDR-BM001

Only the model DR-BBM001 was tested, The difference between each model is only for the product name is different, the color is different, the rest circuit principle, the internal structure, the PCB Layout and the safety key parts are the same, does not affect the EMC and safety test.







General Information

Client Information

Applicant:	Hesung Innovation Limited		
Address of Applicant:	Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui, Kowloon		
Manufacturer:	Shenzhen Hesung Innovation Technology Co., LTD		
Address of Manufacturer:	26th Floor, Building A7, Chuangzhiyuncheng, Liuxian Avenue, Nanshan District, Shenzhen		
Factory:	Power7 Technology (Dong Guan) Co., Ltd.		
Address of Factory:	No.28 Binjiang Street.Shishuikou Village, Qiaotou Town, Dongguan City, GuangDong Province P.R.China		

4.2 **General Description of EUT**

Product Name:	DREO BABY MON	NITOR	
Model No.(EUT):	DR-BBM001, WDF	R-BM001	(6)
Test Model No:	DR-BBM001		
Trade Mark:	DREO	823	
Power Supply:	Adapter:(Camera)	Model: TPA211F-06050-US Input:100-240V~50/60Hz 0.2A Output: 5V == 1.2A	
Operation Frequency:	2410MHz - 2477M	lHz	
Modulation Technique:	Frequency Hoppin	g Spread Spectrum(FHSS)	/ 05
Test Power Grade:	Default		
Test Software of EUT:	N/A(manufacturer	declare)	
Modulation Type:	GFSK		
Number of Channel:	20	C:D	
Hopping Channel Type:	Adaptive Frequenc	cy Hopping systems	(0,)
Antenna Type and Gain:	Dipole Antenna, 2d	dBi	
Test Voltage:	AC 120V,60Hz		
Sample Received Date:	Dec. 31, 2021		
Sample tested Date:	Dec. 31, 2021 to J	an. 27, 2022	

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1 /	2410MHz	6	2427.5MHz	11	2445MHz	16	2462.5MHz
2	2413.5MHz	7	2431MHz	12	2448.5MHz	17	2466MHz
3	2417MHz	8	2434.5MHz	13	2452MHz	18	2469.5MHz
4	2420.5MHz	9	2438MHz	14	2455.5MHz	19	2473MHz
5	2424MHz	10	2441.5MHz	15	2459MHz	20	2477MHz

Test Environment



Report No.: EED32N81477101 Page 6 of 43

Operating Environment	:				
Radiated Spurious Emi	ssions:				
Temperature:	22~25.0 °C				
Humidity:	50~55 % RH		- 0.70		-57
Atmospheric Pressure:	1010mbar				(41)
Conducted Emissions:					
Temperature:	22~25.0 °C				
Humidity:	50~55 % RH				
Atmospheric Pressure:	1010mbar	(3)		(3)	
RF Conducted:					
Temperature:	22~25.0 °C				
Humidity:	50~55 % RH				
Atmospheric Pressure:	1010mbar		_°>		(*)

4.4 **Description of Support Units**

The EUT has been tested independently

4.5 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

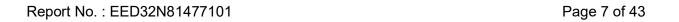
No tests were sub-contracted. FCC Designation No.: CN1164



Hotline:400-6788-333







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

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 ⁻⁸	
2	DE nower conducted	0.46dB (30MHz-1GHz)	
2	RF power, conducted	0.55dB (1GHz-40GHz)	
		3.3dB (9kHz-30MHz)	
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)	
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)	
		3.4dB (18GHz-40GHz)	
4	Conduction emission	3.5dB (9kHz to 150kHz)	
4	Conduction emission	3.1dB (150kHz to 30MHz)	
5	Temperature test	0.64°C	
6	Humidity test	3.8%	
7	DC power voltages	0.026%	





Report No. : EED32N81477101 Page 8 of 43

4.7 Equipment List

RF test system						
		RF test s	ystem	I	1	
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022	
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022	
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022	
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022	
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022	
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022	
Communication test set	R&S	CMW500	120765	08-04-2021	08-03-2022	
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611 879	12-24-2021	12-23-2022	
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-23-2021	06-22-2022	
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518	(C.)	@	

	3M Semi/full-anechoic Chamber						
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
3M Chamber &	TDI	0.00		05.04.0040	05.00.000		
Accessory Equipment	TDK	SAC-3		05-24-2019	05-23-2022		
Receiver	R&S	ESCI7	100938-003	10-14-2021	10-13-2022		
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05-23-2019	05-22-2022		
Multi device Controller	maturo	NCD/070/10711 112					
Horn Antenna	ETS- LINGREN	BBHA 9120D	9120D-1869	04-15-2021	04-14-2024		
Spectrum Analyzer	R&S	FSP40	100416	04-29-2021	04-28-2022		
Microwave Preamplifier	Agilent	8449B	3008A02425	06/23/2021	06/22/2022		





Page 9 of 43 Report No.: EED32N81477101

	1,00	3M full-anechoi	ic Chamber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166		
Receiver	Keysight	N9038A	MY57290136	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	03-03-2022
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021	03-03-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024
Horn Antenna	ETS- LINDGREN	3117	57407	07-04-2021	07-03-2024
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022
Preamplifier	EMCI	EMC001330	980563	04-21-2021	04-20-2022
Preamplifier	JS Tonscend	980380	EMC051845 SE	12-24-2021	12-23-2022
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022
Fully Anechoic Chamber	TDK	FAC-3	(a)	01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001		
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002		/
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003	(C))	(6
Cable line	Times	SFT205-NMSM- 2.50M	393495-0001		
Cable line	Times	EMC104-NMNM- 1000	SN160710		
Cable line	Times	SFT205-NMSM- 3.00M	394813-0001		(1))
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001		
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		
Cable line	Times	HF160-KMKM- 3.00M	393493-0001		- (















5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

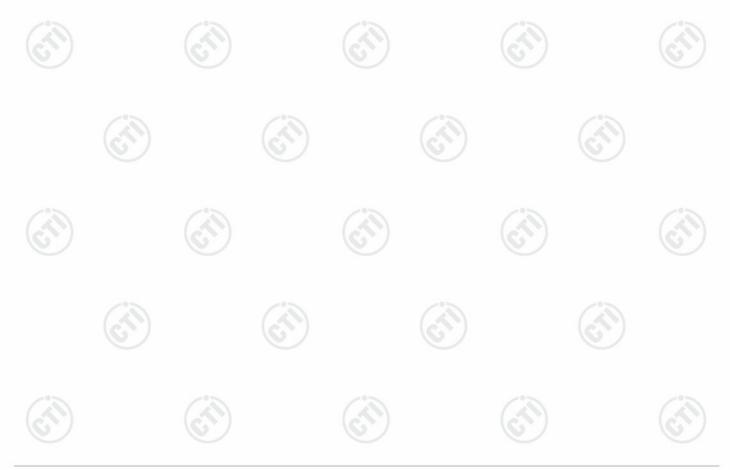
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

15.247(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: Please see Internal photos

The antenna is Dipole antenna. The best case gain of the antenna is 2dBi.





Report No. : EED32N81477101 Page 11 of 43

5.2 AC Power Line Conducted Emissions

Test Requirement: 47 CFR Part 15C Section 15.207 Test Method: ANSI C63.10: 2013 Test Frequency Range: 150kHz to 30MHz Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto Limit: Frequency range (MHz) 0.15-0.5 66 to 55° 56 to 46° 0.5-5 56 46 5-3-30 60 50 * Decreases with the logarithm of the frequency. Test Setup: 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 500/50μH + 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 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. The vertical ground reference plane. The twent on top of the ground reference plane for LISN monthly of the unit under test and bonded to a ground reference plane. The vertical ground reference plane. The twent on the boundary of the unit under test and bonded to a ground reference plane. The twent the closest points of the LISN 1 and the EUT. All tother units of the EUT and associated equipment was at least 0.5 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface caclese must be changed according to AnSI C63.10: 2013 on conducted measurement. E		(A) (A)	0.74			
Test Procedure: Procedure RBW=9 kHz, VBW=30 kHz, Sweep time=auto Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56" 55 to 46" 0.5-5 56 46 6 530 60 50 50 6 6 56" 2.5 5 6 6 6 56" 2.5 6 6 6 56" 6 6 56" 6 6 5 6 6 6 5 6 6 6	Test Requirement:	47 CFR Part 15C Section 15.2	07			
Receiver setup: RBW=9 kHz, VBM=30 kHz, Sweep time=auto Limit (dBuV) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 6 5-30 60 50	Test Method:	ANSI C63.10: 2013				
Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 55 to 46* 0.5-5 56 46 6 5-30 60 50 50 60 50 Decreases with the logarithm of the frequency. Test Setup: Test Setup: Test Setup	Test Frequency Range:	150kHz to 30MHz				
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 500/50/50/H + 50 linear impedance. The power cables of all other units of the EUT was under the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables of the return of the turn was placed on the horizontal 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 of 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. The vertical ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The vertical ground reference plane in from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points 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 CGS.10: 2013 an conducted measurement. Exploratory Test Mode: Through Pre-scan, find the GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sv	veep time=auto	-5-7		
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 500/50µH + 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 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 upon a ron-metallic table 0.8m above the ground reference plane was bonded to the horizontal 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 test was performed with a vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The stable 0.0 fm from the boundary of the unit under test and bonded to a 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 CG3.10: 2013 on conducted measurement. Exploratory Test Mode: Through Pre-scan, find the GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.	Limit:	Frequency range (MHz)				
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. The power cables of all other units of the EUT was placed upon a non-metallic table 0.8m above 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 in the same way as the LISN and for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The vertical ground reference plane. The test was performed with a vertical ground reference plane. The vertical 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: 2013 on conducted measurement. Exploratory Test Mode: Through Pre-scan, find the GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.		0.15-0.5				
Test Setup: 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. 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 tabletope 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. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The vertical ground reference plane. The test was performed with a vertical ground reference plane. The vertical ground reference plane as bonded to the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The test was performed with a vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The test was bestooked 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 all 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: 2013 on conducted measurement. Exploratory Test Mode: Through Pre-scan, find the GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.						
Test Setup: Test Procedure: 1) The mains terminal disturbance voltage test was conducted in a shielded room.						
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 + 50 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. The vertical ground reference plane as bonded to the horizontal ground reference plane. The vertical ground reference plane. The vertical ground reference plane. The second 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. The LISN 1 was placed to 8 m from the boundary of the unit under test and bonded to a ground reference plane. 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: 2013 on conducted measurement. Exploratory Test Mode: Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Final Test Mode: Only the worst case is recorded in the report.						
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 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. 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: 2013 on conducted measurement. Exploratory Test Mode: Through Pre-scan, find the GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.	Test Setup:	Shielding Room EUT	AE LISN2 - ACM			
Exploratory Test Mode: Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel. Final Test Mode: Through Pre-scan, find the GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.		room. 2) The EUT was connected to Impedance Stabilization Ne impedance. The power cab connected to a second LISI reference plane in the same measured. A multiple socke power cables to a single LIS exceeded. 3) The tabletop EUT was place ground reference plane. An placed on the horizontal ground reference plane with of the EUT shall be 0.4 m from the EUT shall be 0.4 m from the EUT shall be 0.4 m from the EUT and associated equipment and all of the interest and bonded and the EUT and associated equipment and all of the interest and bonder the EUT and associated equipment and all of the interest and bonder the EUT and associated equipment and all of the interest and bonder the control of the maximum equipment and all of the interest and bonder the control of the interest and all of the interest and bonder the control of the interest and all of the interest and bonder the control of the interest and bon	AC power source throughwork) which provides les of all other units of N 2, which was bonded to way as the LISN 1 for the toutlet strip was used SN provided the rating are sound reference plane, the a vertical ground reference of the vertical ground reference plane. The strip was placed 0.8 m frought to a ground reference plane. The of the LISN 1 and the Euipment was at least 0 m emission, the relative erface cables must be efference cables must be	ugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were to the ground the unit being to connect multiple of the LISN was not table 0.8m above the angement, the EUT was reference plane. The horizontal ground m the boundary of the plane for LISNs is distance was EUT. All other units of 8 m from the LISN 2.		
worst case. Only the worst case is recorded in the report.	Exploratory Test Mode:	Non-hopping transmitting mode	e with all kind of modul	ation and all kind of		
	Final Test Mode:	Through Pre-scan, find the GFSK modulation at the lowest channel is the worst case.				
lest Results: Pass	T / D "		u iii uie iepolt.			
	l est Results:	rass				

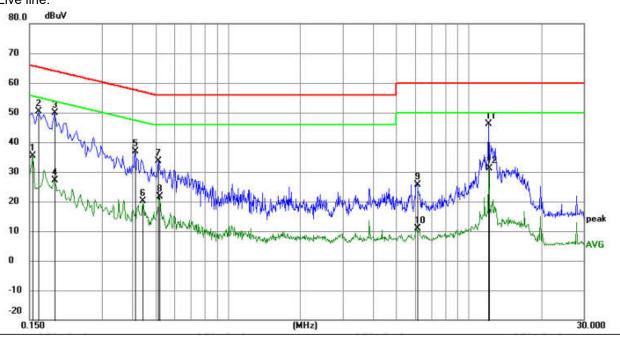




Adapter:(Camera)

Measurement Data

Live line:



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1545	25.51	9.87	35.38	55.75	-20.37	AVG	
2	0.1635	40.58	9.87	50.45	65.28	-14.83	QP	
3	0.1905	40.04	9.87	49.91	64.01	-14.10	QP	
4	0.1905	17.32	9.87	27.19	54.01	-26.82	AVG	
5	0.4110	26.80	9.97	36.77	57.63	-20.86	QP	
6	0.4425	10.15	9.96	20.11	47.01	-26.90	AVG	
7	0.5144	23.68	9.97	33.65	56.00	-22.35	QP	
8	0.5190	11.64	9.97	21.61	46.00	-24.39	AVG	
9	6.1125	15.91	9.79	25.70	60.00	-34.30	QP	
10	6.1440	1.20	9.79	10.99	50.00	-39.01	AVG	
11 *	12.1200	36.25	9.84	46.09	60.00	-13.91	QP	
12	12.1245	21.27	9.84	31.11	50.00	-18.89	AVG	

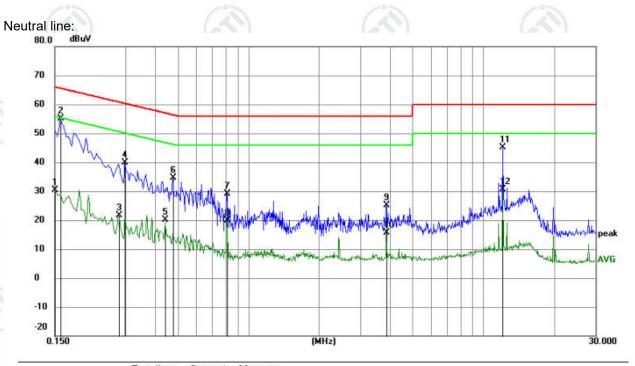
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.











No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	20.61	9.87	30.48	56.00	-25.52	AVG	
2	*	0.1590	45.21	9.87	55.08	65.52	-10.44	QP	
3		0.2805	11.54	10.03	21.57	50.80	-29.23	AVG	
4		0.2985	29.93	10.07	40.00	60.28	-20.28	QP	
5		0.4425	10.22	9.96	20.18	47.01	-26.83	AVG	
6		0.4785	24.57	9.95	34.52	56.37	-21.85	QP	
7		0.8115	19.40	9.85	29.25	56.00	-26.75	QP	
8		0.8115	10.15	9.85	20.00	46.00	-26.00	AVG	
9		3.8805	15.43	9.78	25.21	56.00	-30.79	QP	
10		3.8805	5.93	9.78	15.71	46.00	-30.29	AVG	
11		12.1200	35.26	9.84	45.10	60.00	-14.90	QP	
12		12.1200	20.71	9.84	30.55	50.00	-19.45	AVG	

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.















5.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.2	247 (b)(1)	
Test Method:	ANSI C63.10:2013		
Test Setup:	Control Computer Power Supply Temperature Cabnet Table	RF test System Lator Instrument	
	Remark: Offset=Cable loss+ a	attenuation factor.	
Test Procedure:	Use the following spectrum ar Span = approximately 5 times centered on a hopping channed RBW > the 20 dB bandwidth of measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function peak of the emission.	the 20 dB bandwidth, el of the emission being	
Limit:	21dBm	(0,	(0,
Exploratory Test Mode	: Non-hopping transmitting with	all kind of modulation and all	kind of data type
Final Test Mode:	Through Pre-scan, find the I modulation type	DH5 of data type is the wor	st case of GFSK
Test Results:	Refer to Appendix A		(1)





Report No. : EED32N81477101 Page 15 of 43

5.4 20dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)						
Test Method:	ANSI C63.10:2013						
Test Setup:	Control Control Power Power Pool Table RF test System Instrument Table						
	Remark: Offset=Cable loss+ attenuation factor.						
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW ≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 						
Limit:	NA NA						
Exploratory Test Mode	Non-hopping transmitting with all kind of modulation and all kind of data type						
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type						
Test Results:	Refer to Appendix A						







5.5 Carrier Frequency Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)						
Test Method:	ANSI C63.10:2013						
Test Setup:	Control Compruter Power Supply Temperature Cabillet Table	RF test System Instrument					
	Remark: Offset=Cable loss+ attenua	ition factor.					
Test Procedure:	 Test Procedure: 1. The RF output of EUT was connected to the spectrum analyzer by R cable and attenuator. The path loss was compensated to the results for measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Enable the EUT hopping function. 4. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RE set to approximately 30% of the channel spacing, adjust as necessary the best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 5. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report. 						
Limit:	have hopping channel carrier frequen	ing in the 2400-2483.5 MHz band may ncies that are separated by 25 kHz or of the hopping channel, whichever is					
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type						
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type						
Test Results:	Refer to Appendix A						







5.6 Number of Hopping Channel

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013					
Test Setup:	Control Control Control Power Power Poot Power Poot Power Poot Table RF test System System Instrument					
	Remark: Offset=Cable loss+ attenuation factor.					
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep= auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data in report. 					
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.					
Test Mode:	Hopping transmitting with all kind of modulation					
Test Results:	Refer to Appendix A					







5.7 Time of Occupancy

	Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)						
	Test Method:	ANSI C63.10:2013						
37000	Test Setup:	Control Control Control port(s) Power poot Table RF test System Instrument Instrument						
		Remark: Offset=Cable loss+ attenuation factor.						
	Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report. 						
	Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.						
	Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.						
	Test Results:	Refer to Appendix A						







5.8 Band edge Measurements

	Test Requirement:	47 CFR Part 15C Section 15.247 (d)
	Test Method:	ANSI C63.10:2013
	Test Setup:	Control Control Power Supply Power Supply Table RF test System System Instrument Table
23		Remark: Offset=Cable loss+ attenuation factor.
	Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report.
	Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
	Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
	Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type
	Test Results:	Refer to Appendix A







5.9 Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Computer Power Bod Power Bod Table EUT RF test System System Instrument RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK
	modulation type









5.10 Pseudorandom Frequency Hopping Sequence

Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) requirement:

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

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

hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in

EUT Pseudorandom Frequency Hopping Sequence

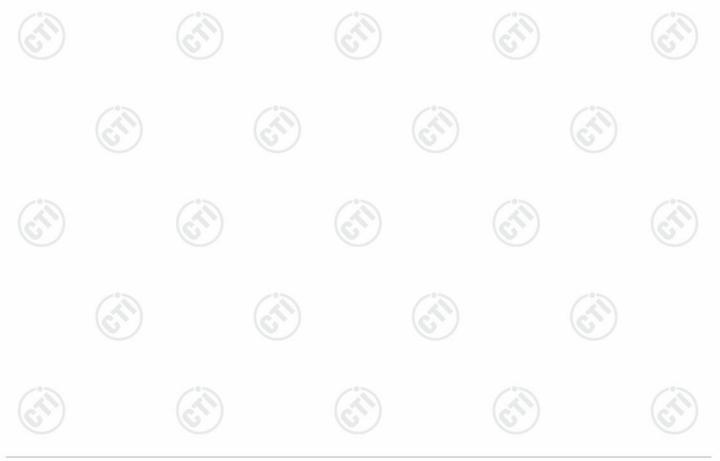
synchronization with the transmitted signals.

Hopping Mechanism

DR-BBM001 family use adaptive frequency hopping. There are at 20 radio non-overlap channels (above 20dBc) in the 2.4GHz ISM band. The channel transmission bandwidth is about 3.5MHz. We can allocate 20 non-overlap channels between 2410MHz to 2477MHz. Like AFH of Bluetooth, DR-BBM001 provide smart channel selection algorithm to avoid radio interference from other 2.4GHz devices.

The system will generate a pseudorandom ordered list base on:

- 1) A 8 bit factory ID(8 bit)
- 2) A 6 bit set number ID(6 bit)





Report No. : EED32N81477101 Page 22 of 43

5.11 Radiated Spurious Emission & Restricted bands

Test Requiremen	nt: 47 CFR Part 15C Secti	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013								
Test Site:	Measurement Distance	: 3m (Semi-Anec	hoic Chaml	ber)	(25)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark				
	0.009MHz-0.090MH	z Peak	10kHz	30kHz	Peak				
	0.009MHz-0.090MH	z Average	10kHz	30kHz	Average				
	0.090MHz-0.110MH	z Quasi-peak	10kHz	30kHz	Quasi-peak				
	0.110MHz-0.490MH	z Peak	10kHz	30kHz	Peak				
	0.110MHz-0.490MH	z Average	10kHz	30kHz	Average				
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak				
	30MHz-1GHz	Peak	100 kH	z 300kHz	Peak				
	Above 4015	Peak	1MHz	3MHz	Peak				
	Above 1GHz	Peak	Peak 1MHz		Average				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2400/F(kHz)	-	(6)	300				
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30				
	1.705MHz-30MHz	30	-	-	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 emissions is 20dE applicable to the peak emission lev	3 above the maxinequipment under	mum permi test. This p	tted average	emission limit				





Page 23 of 43 Report No.: EED32N81477101

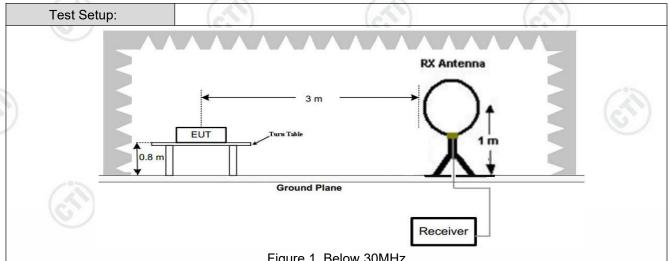


Figure 1. Below 30MHz

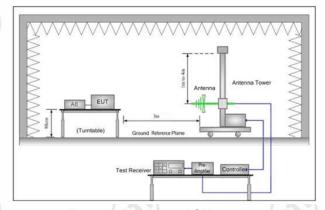


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 1) Below 1G: 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.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

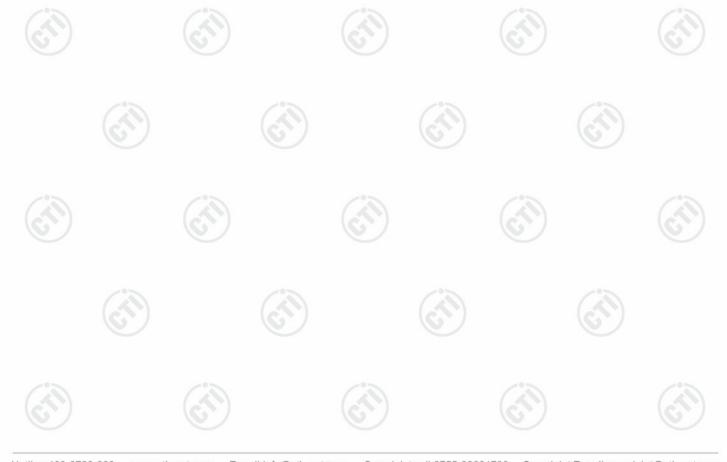
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both



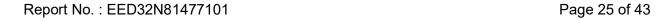
Report No.: EED32N81477101



	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 table 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. g. Test the EUT in the lowest channel (2402MHz), the middle channel (2441MHz), the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation with adapter VSD0500120VU was the worst case. Pretest the EUT at Transmitting mode, For below 1GHz part, through prescan, the worst case was the lowest channel. Only the worst case was recorded in the report.
Test Results:	Pass

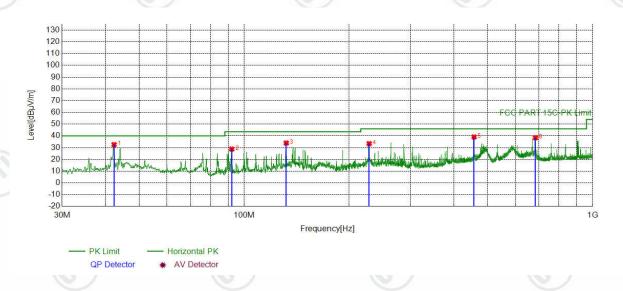




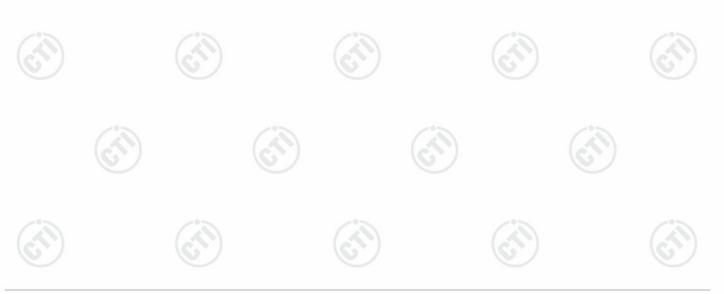


Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of DH5 for GFSK was recorded in the report.



	Suspec	uspected List								
27.0	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	42.3202	-17.66	50.26	32.60	40.00	7.40	PASS	Horizontal	PK
	2	92.0862	-19.79	48.62	28.83	43.50	14.67	PASS	Horizontal	PK
	3	132.0542	-21.69	55.64	33.95	43.50	9.55	PASS	Horizontal	PK
	4	228.3848	-17.06	50.48	33.42	46.00	12.58	PASS	Horizontal	PK
	5	456.8427	-11.59	50.71	39.12	46.00	6.88	PASS	Horizontal	PK
	6	685.3005	-7.82	46.26	38.44	46.00	7.56	PASS	Horizontal	PK



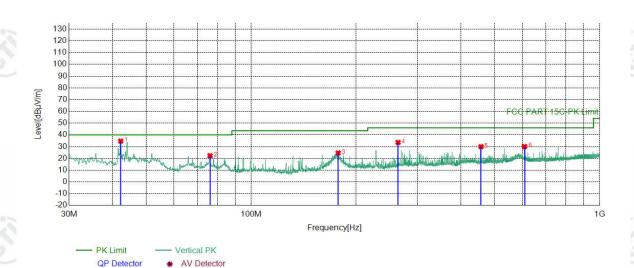








Page 26 of 43 Report No.: EED32N81477101



Suspec	Suspected List												
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark				
1	42.2232	-17.68	52.45	34.77	40.00	5.23	PASS	Vertical	PK				
2	76.1766	-21.92	44.23	22.31	40.00	17.69	PASS	Vertical	PK				
3	177.6488	-19.98	44.62	24.64	43.50	18.86	PASS	Vertical	PK				
4	263.9874	-16.28	49.91	33.63	46.00	12.37	PASS	Vertical	PK				
5	456.8427	-11.59	41.59	30.00	46.00	16.00	PASS	Vertical	PK				
6	609.1479	-8.51	38.60	30.09	46.00	15.91	PASS	Vertical	PK				







Radiated Spurious Emission above 1GHz:

					1.0.4	_	16.7			
Mod	e:	GFSK T	ransmitting		Channel:	2410				
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	1276.6277	1.00	42.31	43.31	74.00	30.69	PASS	Horizontal	PK	
2	1850.0850	3.66	43.53	47.19	74.00	26.81	PASS	Horizontal	PK	
3	4818.1212	-16.22	56.63	40.41	74.00	33.59	PASS	Horizontal	PK	
4	6966.2644	-11.82	53.42	41.60	74.00	32.40	PASS	Horizontal	PK	
5	9209.4140	-7.89	51.93	44.04	74.00	29.96	PASS	Horizontal	PK	
6	13746.7164	-1.70	49.89	48.19	74.00	25.81	PASS	Horizontal	PK	
7	1235.2235	0.89	42.17	43.06	74.00	30.94	PASS	Vertical	PK	
8	1969.2969	4.39	40.99	45.38	74.00	28.62	PASS	Vertical	PK	
9	4818.1212	-16.22	59.90	43.68	74.00	30.32	PASS	Vertical	AV	
10	6336.2224	-12.90	53.43	40.53	74.00	33.47	PASS	Vertical	PK	
11	9288.4192	-7.94	51.44	43.50	74.00	30.50	PASS	Vertical	PK	
12	13701.7134	-1.77	48.68	46.91	74.00	27.09	PASS	Vertical	PK	

Mode	e:	GFSK T	ransmitting		Channel:	2441.5		~ ~	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1325.0325	1.14	41.68	42.82	74.00	31.18	PASS	Horizontal	PK
2	1849.8850	3.65	42.41	46.06	74.00	27.94	PASS	Horizontal	PK
3	4885.1257	-16.20	56.61	40.41	74.00	33.59	PASS	Horizontal	PK
4	7086.2724	-11.61	52.64	41.03	74.00	32.97	PASS	Horizontal	PK
5	9302.4202	-7.95	50.89	42.94	74.00	31.06	PASS	Horizontal	PK
6	12445.6297	-4.75	51.45	46.70	74.00	27.30	PASS	Horizontal	PK
7	1295.2295	1.05	41.50	42.55	74.00	31.45	PASS	Vertical	PK
8	1849.8850	3.65	40.83	44.48	74.00	29.52	PASS	Vertical	PK
9	4885.1257	-16.20	60.86	44.66	74.00	29.34	PASS	Vertical	PK
10	7681.3121	-11.07	52.41	41.34	74.00	32.66	PASS	Vertical	AV
11	9271.4181	-7.93	52.57	44.64	74.00	29.36	PASS	Vertical	PK
12	13203.6802	-3.12	50.34	47.22	74.00	26.78	PASS	Vertical	PK













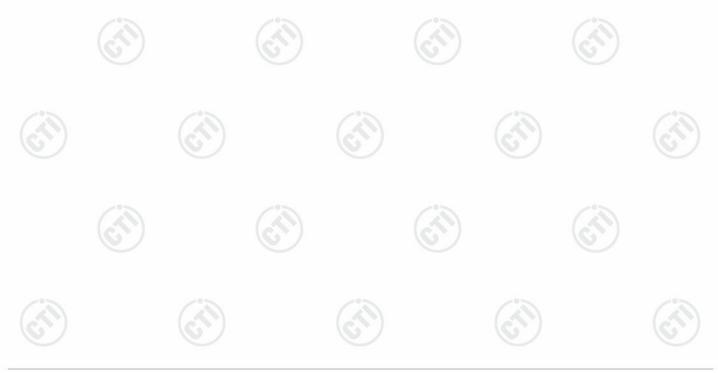
Report No.: EED32N81477101



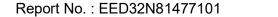
Mode:	(6,)	GFSK T	ransmitting		Channel:	2477		(0,1)	
NO	Freq. [MHz]	Factor [dB]	Reading [dB µ V]	Level [dB μ V/m]	Limit [dB µ V/m]	Margin [dB]	Result	Polarity	Remark
1	1161.8162	0.82	41.89	42.71	74.00	31.29	PASS	Horizontal	PK
2	1850.2850	3.66	42.95	46.61	74.00	27.39	PASS	Horizontal	PK
3	4952.1301	-16.00	55.98	39.98	74.00	34.02	PASS	Horizontal	PK
4	6813.2542	-12.33	54.09	41.76	74.00	32.24	PASS	Horizontal	PK
5	9769.4513	-7.48	50.61	43.13	74.00	30.87	PASS	Horizontal	PK
6	13200.6800	-3.11	49.96	46.85	74.00	27.15	PASS	Horizontal	PK
7	1296.8297	1.05	41.89	42.94	74.00	31.06	PASS	Vertical	PK
8	1666.0666	2.72	41.12	43.84	74.00	30.16	PASS	Vertical	PK
9	4956.1304	-15.99	60.03	44.04	74.00	29.96	PASS	Vertical	PK
10	6771.2514	-12.43	53.28	40.85	74.00	33.15	PASS	Vertical	PK
11	10287.4858	-6.54	51.03	44.49	74.00	29.51	PASS	Vertical	PK
12	13753.7169	-1.69	49.49	47.80	74.00	26.20	PASS	Vertical	PK

Remark:

- 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 + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



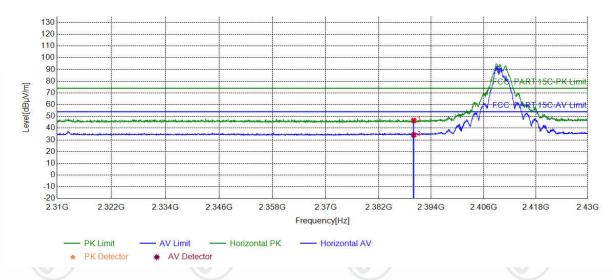






Restricted bands:

Mode:	GFSK	Channel:	2410
Remark:			



Suspe	cted List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.77	46.54	74.00	27.46	PASS	Horizontal	PK
2	2390.0000	5.77	28.50	34.27	54.00	19.73	PASS	Horizontal	AV

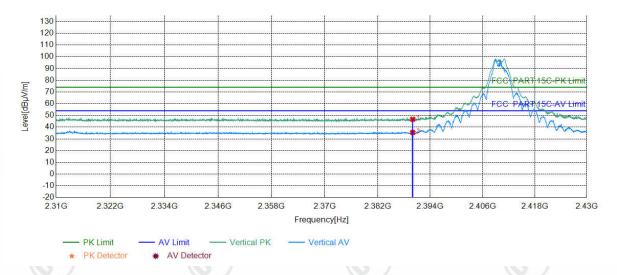






Page 30 of 43

Mode:	GFSK	Channel:	2410
Remark:			



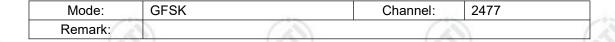
	Suspec	uspected List												
2.5	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark				
	1	2390.0000	5.77	40.95	46.72	74.00	27.28	PASS	Vertical	PK				
	2	2390.0000	5.77	29.73	35.50	54.00	18.50	PASS	Vertical	AV				

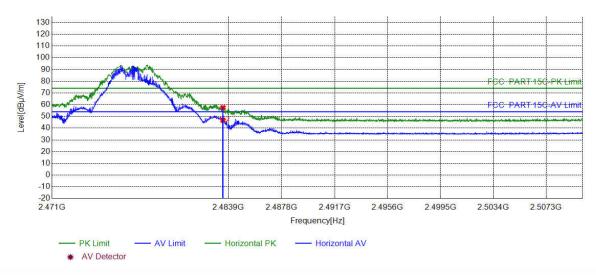










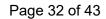


Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2483.5000	6.57	50.90	57.47	74.00	16.53	PASS	Horizontal	PK
	2	2483.5000	6.57	40.17	46.74	54.00	7.26	PASS	Horizontal	AV
		20%		700		701			100	



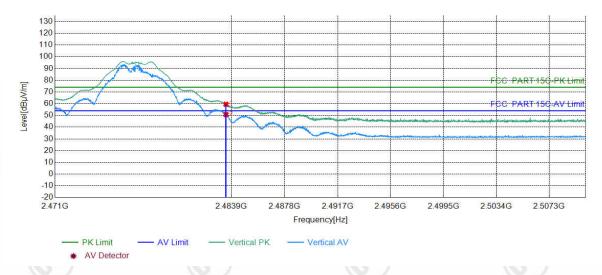






Mode:	GFSK	Channel:	2477
Remark:			

Test Graph



	Suspec	Suspected List											
2.0	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark			
	1	2483.5000	6.57	52.98	59.55	74.00	14.45	PASS	Vertical	PK			
	2	2483.5000	6.57	44.19	50.76	54.00	3.24	PASS	Vertical	AV			

Note:

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





















Page 33 of 43

6 Appendix A



