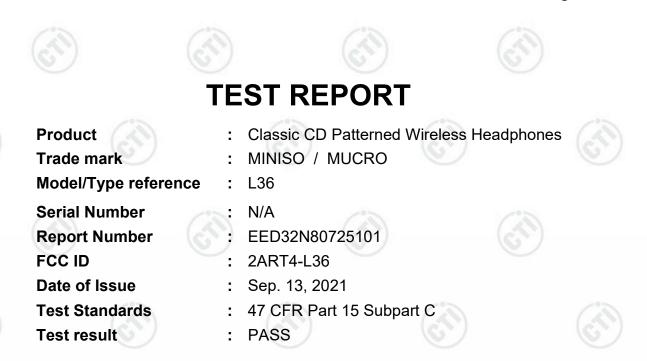


Report No. : EED32N80725101





Prepared for: MINISO CORPORATION ROOM 2501, NO.486HEYE SQUARE, KANGWANG MIDDLE ROAD, LIWAN DISTRICT, **GUANGZHOU, GUANGDONG, CHINA**

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

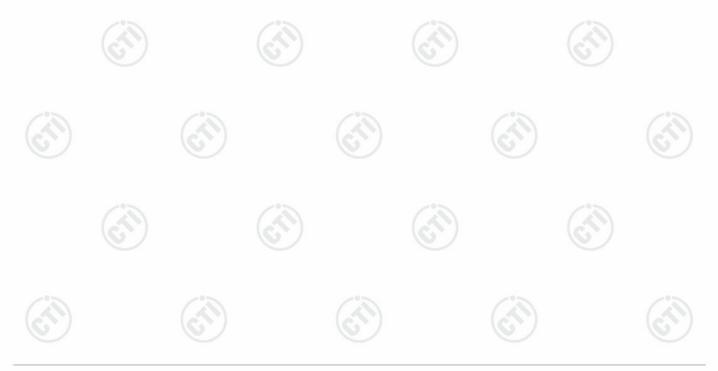
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Approved B Rep	by:	David Wany David Wang	Date:	Sep. 13, 20	21
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(3)	Version No.		Date			Descripti	on	
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3 Test Summary

Test Item	Test Requirement	Result
rest item		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 Output47 CFR Part 15, Subpart C SectionPower15.247 (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		
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 were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.:L36

It comes in three colors,only the black was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the three colors, with difference color.







4 General Information

4.1 Client Information

-		
	Applicant:	MINISO CORPORATION
~	Address of Applicant:	ROOM 2501, NO.486HEYE SQUARE, KANGWANG MIDDLE ROAD, LIWAN DISTRICT, GUANGZHOU, GUANGDONG, CHINA
é	Manufacturer:	Huizhou Willong Zhanye Industrial Co., Ltd.
~	Address of Manufacturer:	1 st Rainbow Rd, Yonghu Town, Huiyang Dist, Huizhou, Guangdong
	Factory:	Huizhou Willong Zhanye Industrial Co., Ltd.
	Address of Factory:	1 st Rainbow Rd, Yonghu Town, Huiyang Dist, Huizhou, Guangdong
	and the second se	1 AD. 70 1

4.2 General Description of EUT

Product Name:	Classic CD Patterned Wireless Headphones
Model No.:	L36
Trade Mark:	MINISO / MUCRO
Product Type:	☐ Mobile
Operation Frequency:	2402MHz~2480MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	PCB antenna
Antenna Gain:	4dBi
Power Supply:	DC 3.7V 300 mAh (Li-on Rechargeable Battery)
Test Voltage:	DC 3.7V
Sample Received Date:	Aug. 13, 2021
Sample tested Date:	Aug. 14, 2021 to Aug. 23, 2021





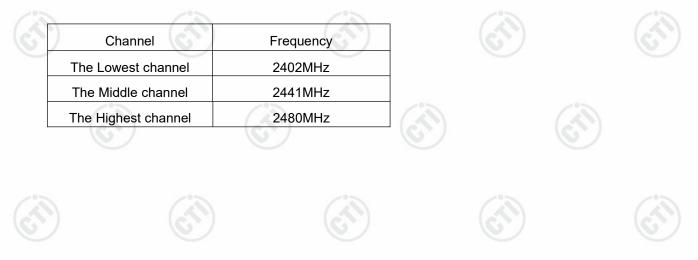




Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:

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







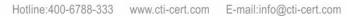


4.3 **Test Configuration**

EUT Test Software Settings	:			
Software:	FCC_assist_1.0.2.2			
EUT Power Grade:	Default	(4		
Use test software to set the lo transmitting of the EUT.	owest frequency, the middle frequ	lency and the hig	hest frequency keep	
Mode	Channel		Frequency(MHz)	
	CH0	1	2402	
DH1/DH3/DH5	CH39	S)	2441	
	CH78		2480	
	CH0		2402	
2DH1/2DH3/2DH5	CH39	(à	2441	
	CH78	G	2480	
	CH0		2402	
3DH1/3DH3/3DH5	CH39		2441	
	CH78	(1)	2480	

Test Environment 4.4

	Operating Environment	:				
2	Radiated Spurious Emi	ssions:				
57	Temperature:	0℃~+45℃		67		67
	Humidity:	50~55 % RH				
	Atmospheric Pressure:	1010mbar				
	Conducted Emissions:					
	Temperature:	0°C~+45°C	(\mathcal{O})		(\mathcal{O})	
	Humidity:	50~55 % RH	\sim		\sim	
	Atmospheric Pressure:	1010mbar				
2	RF Conducted:					
(\mathbf{N})	Temperature:	0°C~+45°C		(\mathcal{C})		(\mathcal{O})
	Humidity:	50~55 % RH				
	Atmospheric Pressure:	1010mbar				









4.5 **Description of Support Units**

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied
Notebook	DELL	D245DX2	CE&FCC	DELL
				1
	()	(e)	(C)	1

4.6 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

4.7 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-18GHz)
		3.3dB (9kHz-30MHz)
3	Dedicted Sourious 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%









4.8 Equipment List

Conducted disturbance Test							
			Operation	Cal. date	Cal. Due date		
Equipment	Manufacturer	Model No.	Serial Number	(mm-dd-yyyy)	(mm-dd-yyyy)		
Receiver	R&S	ESCI	100435	04-15-2021	04-14-2022		
Temperature/ Humidity Indicator	Defu	TH128	/				
LISN	R&S	ENV216	100098	03-04-2021	03-03-2022		
Barometer	changchun	DYM3	1188	(

		RF test sy	/stem			
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-28-2020	12-27-2021	
Signal Generator	Keysight	N5182B	MY53051549	12-28-2020	12-27-2021	
Signal Generator	Keysight	E8257D	MY53401106	12-28-2020	12-27-2021	
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-23-2021	06-22-2022	
High-pass filter	Sinoscite	FL3CX03WG18NM12- 0398-002		6	- 0	
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	<u> </u>	- 0	/	
DC Power	Keysight	E3642A	MY56376072	12-28-2020	12-27-2021	
Power unit	R&S	OSP120	101374	12-28-2020	12-27-2021	
RF control unit	JS Tonscend	JS0806-2	158060006	12-28-2020	12-27-2021	
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3		(<u>1</u>)-	-61	
band rejection filter	Sinoscite	FL5CX01CA09CL12- 0395-001				
band rejection filter	Sinoscite	FL5CX01CA08CL12- 0393-001		- 0	o	
band rejection filter	Sinoscite	FL5CX02CA04CL12- 0396-002	<u>()</u>		ン	
band rejection filter	Sinoscite	FL5CX02CA03CL12- 0394-001				
Communication test set	R&S	CMW500	120765	08-04-2021	08-03-2022	
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-28-2020	12-27-2021	

Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com

Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com







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	3M Sem	ni/full-anechoic Cham	ber		
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3		05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2021	05-15-2022
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024
Receiver	R&S	ESCI7	100938-003	10-16-2020	10-15-2021
Multi device Controller	maturo	NCD/070/10711112			
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-24-2021	06-23-2022
Communication test set	Agilent	E5515C	GB47050534	03-01-2019	02-28-2022
Cable line	Fulai(7M)	SF106	5219/6A		
Cable line	Fulai(6M)	SF106	5220/6A)	6
Cable line	Fulai(3M)	SF106	5216/6A		<u> </u>
Cable line	Fulai(3M)	SF106	5217/6A		
band rejection filter	Sinoscite	FL5CX01CA08CL12- 0393-001			









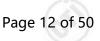
		3M full-anech	oic Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
RSE Automatic test software	IS Longcond IS 1836-BSE		10166			
Receiver	Keysight	N9038A	MY57290136	03-04-2021	03-03-2022	
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021	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	
Communication Antenna	Schwarzbeck	CLSA 0110L	1014	(5)	
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024	
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022	
Communication test set	R&S	CMW500	102898	12-31-2020	12-30-2021	
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022	
Preamplifier	JS Tonscend	980380	EMC051845SE	12-31-2020	12-30-2021	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022	
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0001		9	
Cable line	Times	SFT205-NMSM- 2.50M	394812-0002			
Cable line	Times	SFT205-NMSM- 2.50M	394812-0003		- (2	
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	(5)	
Cable line	Times	SFT205-NMNM- 1.50M	381964-0001			
Cable line	Times	SFT205-NMSM- 7.00M	394815-0001		0	
Cable line	Times	HF160-KMKM- 3.00M	393493-0001	(\bigcirc)	(ć	



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5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement:	
responsible party shall be u antenna that uses a unique so that a broken antenna ca electrical connector is prohi	be designed to ensure that no antenna other than that furnished by the used with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit an be replaced by the user, but the use of a standard antenna jack or bited.
antennas with directional ga section, if transmitting anter	er limit specified in paragraph (b) of this section is based on the use of ains that do not exceed 6 dBi. Except as shown in paragraph (c) of this nnas of directional gain greater than 6 dBi are used, the conducted output radiator shall be reduced below the stated values in paragraphs (b)(1), ction, as appropriate, by the amount in dB that the directional gain of the

EUT Antenna:	Please see Internal photos	\bigcirc
The antenna is PCB antenn	a. The best case gain of the antenna is /dBi	









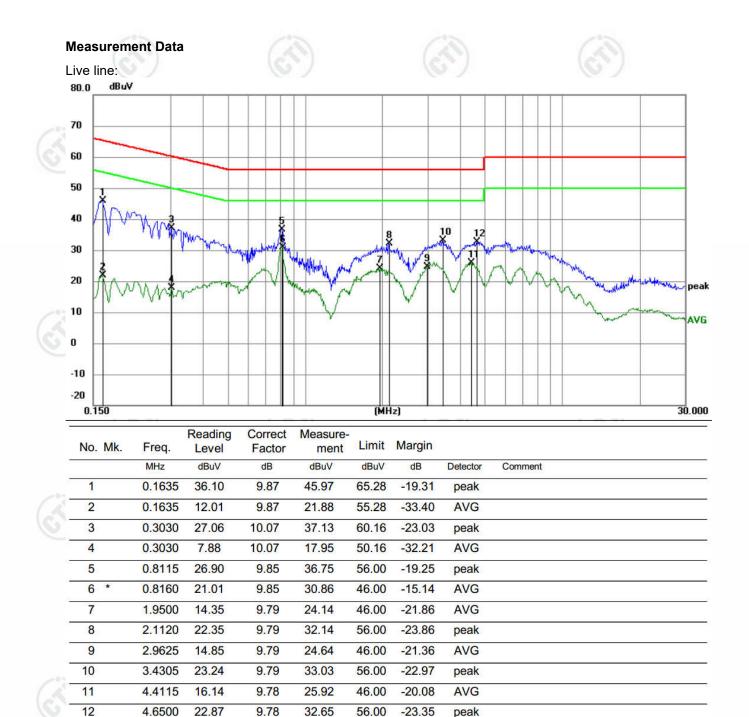
5.2 AC Power Line Conducted Emissions

5.2	AC Power Line Cor	nducted Emissions		
	Test Requirement:	47 CFR Part 15C Section 15.2	.07	
	Test Method:	ANSI C63.10: 2013	S.	6
	Test Frequency Range:	150kHz to 30MHz		
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sy		
	Limit:	Frequency range (MHz)	Limit (d	,
			Quasi-peak	Average
8		0.15-0.5	66 to 56*	56 to 46*
2		0.5-5	56	46
		5-30	60	50
		* Decreases with the logarithm	of the frequency.	
	Test Setup:			
(22)		Shielding Room	AE USN2 AC Ground Reference Plane	Test Receiver
(Cos) (Cos)		 room. 2) The EUT was connected to Impedance Stabilization Neimpedance. The power cable connected to a second LISI reference plane in the same measured. A multiple socker power cables to a single Lisexceeded. 3) The tabletop EUT was place ground reference plane. An placed on the horizontal ground reference plane. An placed on the horizontal ground reference plane. The LISN unit under test and bonded mounted on top of the groun between the closest points the EUT and associated eq 5) In order to find the maximum 	etwork) which provides bles of all other units of N 2, which was bonded e way as the LISN 1 fo et outlet strip was used SN provided the rating and for floor-standing arr ound reference plane, th a vertical ground reference allane was bonded to the 1 was placed 0.8 m from to a ground reference and reference plane. The of the LISN 1 and the puppment was at least 0	a $50\Omega/50\mu$ H + 5Ω linear the EUT were d to the ground r the unit being to connect multiple of the LISN was not table 0.8m above the angement, the EUT was erence plane. The rear reference plane. The be horizontal ground om the boundary of the plane for LISNs is distance was EUT. All other units of 0.8 m from the LISN 2.
	Exploratory Test Mode:	data type at the lowest, middle	ducted measurement. e with all kind of modul e, high channel.	ation and all kind of
	Final Test Mode:	Through Pre-scan, find the D lowest channel is the worst cas		GFSK modulation at th
3		Only the worst case is recorde		









Remark:

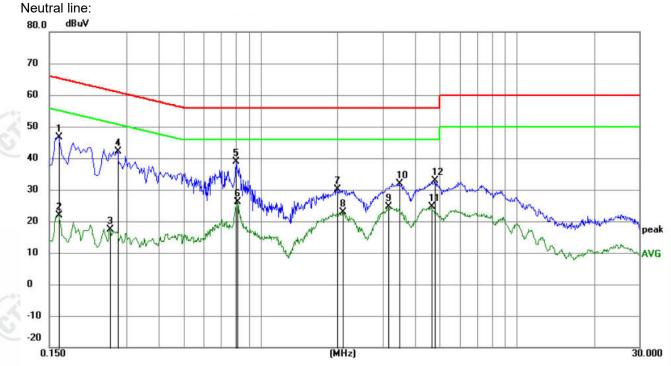
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.











No. N	۷k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1635	36.85	9.87	46.72	65.28	-18.56	peak	
2		0.1635	12.13	9.87	22.00	55.28	-33.28	AVG	
3		0.2580	7.30	9.99	17.29	51.50	-34.21	AVG	
4		0.2760	32.13	10.02	42.15	60.94	-18.79	peak	
5 *	*	0.8025	28.92	9.85	38.77	56.00	-17.23	peak	
6		0.8115	16.24	9.85	26.09	46.00	-19.91	AVG	
7		1.9815	20.29	9.79	30.08	56.00	-25.92	peak	
8		2.0895	13.16	9.79	22.95	46.00	-23.05	AVG	
9		3.1425	14.72	9.79	24.51	46.00	-21.49	AVG	
10		3.4890	22.21	9.78	31.99	56.00	-24.01	peak	
11		4.6500	14.73	9.78	24.51	46.00	-21.49	AVG	
12		4.7760	22.98	9.78	32.76	56.00	-23.24	peak	

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 15.247 (b)(1) Test Method: ANSI C63.10:2013 Test Setup: **RF** test Control Compute System Power Supply port Attenuator Instrument EMPERATURE CABINET Remark: Offset=Cable loss+ attenuation factor. Use the following spectrum analyzer settings: Test Procedure: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Limit: 21dBm 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, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Test Results: Refer to Appendix A









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 Congular Power Suppy TelmPERATURE CABNET Table				
2		Remark: Offset=Cable loss+ attenuation factor.				
3	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. 				
2	Limit:	NA				
2	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, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK 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 Control Computer Power Supph Table 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. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Limit:	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.
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, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Refer to Appendix A









5.6 Number of Hopping Channel

Test Requirement:	47 CFR Part 1	5C Section 15.24	7 (a)(1)	(C)	
Test Method:	ANSI C63.10:2	013			
est Setup:	Control Computer Domy Supply TEMPERA	Artenna port(s)	RF to Syst tor Instru	em	(Th
	Remark: Offset	=Cable loss+ atte	enuation factor		
Test Procedure:	 cable and attereach measurer 2. Set to the continuously. 3. Enable the E 4. Use the foll band of operation or the 20 dB b Detector function 5. The number total channel. 	out of EUT was conuator. The path ment. maximum powe EUT hopping func owing spectrum ion; set the RBW andwidth, whiche on = peak; Trace r of hopping freq measurement data	loss was com er setting and tion. analyzer settin to less than 3 ever is smaller; = max hold. uency used is	npensated to enable the ngs: Span = 30% of the o VBW≥RBW	EUT transmit the frequency hannel spacing ; Sweep= auto;
Limit:	Frequency hop least 15 chann	oping systems in els.	the 2400-2483	3.5 MHz ba	nd shall use at
Test Mode:	Hopping transr	nitting with all kine	d of modulatior		
Test Results:	Refer to Appen	idix A)	(\sim)	
		I I I I I I I I I I I I I I I I I I I			





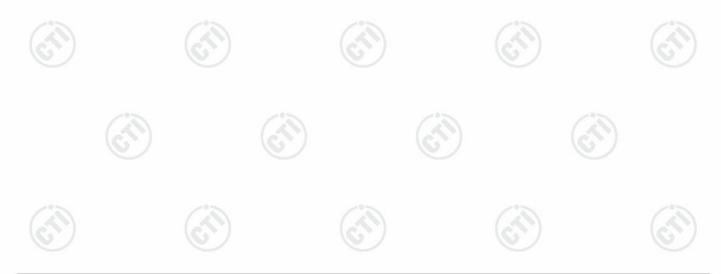






5.7 Time of Occupancy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Congular Power Suppr Table RF test System Instrument
Test Procedure:	Remark: Offset=Cable loss+ attenuation factor.
Test Plocedule.	 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. 5. 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.
	Hopping transmitting with all kind of modulation and all kind of data type.
Test Mode:	riepping automaing mar an and of modulation and an and of data type.

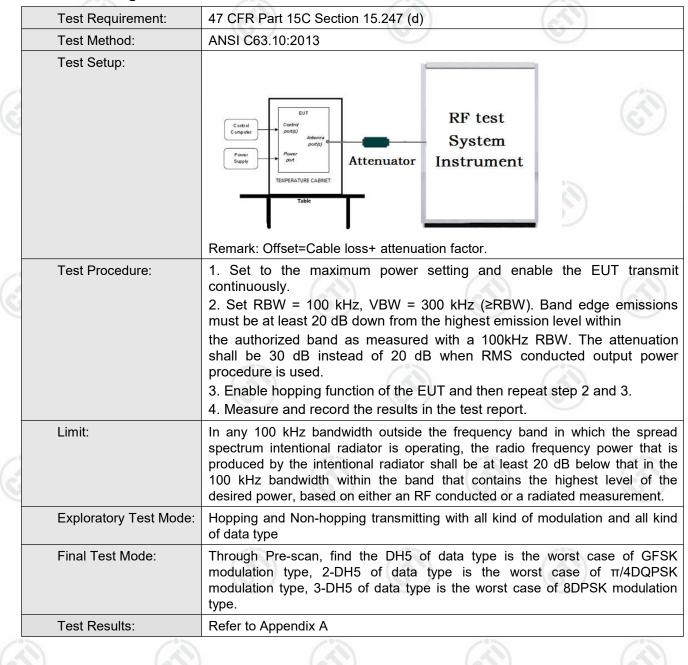








5.8 Band edge Measurements













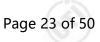
5.9 Conducted Spurious Emissions

	Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
	Test Method:	ANSI C63.10:2013				
	Test Setup:	Control Computer Computer Computer Power Power Supply Table 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. 				
Ś	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, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
1.01	Test Results:	Refer to Appendix A				









Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1), (h) requirement:
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 equall 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 synchronization with the transmitted signals.
Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.
Compliance for section 15.247(a)(1)
 outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initiality with nine ones. Number of shift register stages: 9 Length of pseudo-random sequence: 2⁹ -1 = 511 bits Longest sequence of zeros: 8 (non-inverted signal)
Linear Feedback Shift Register for Generation of the PRBS sequence
An example of Pseudorandom Frequency Hopping Sequence as follow: 20 62 46 77 7 64 8 73 16 75 1
Each frequency used equally on the average by each transmitter. According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and sh
frequencies in synchronization with the transmitted signals.



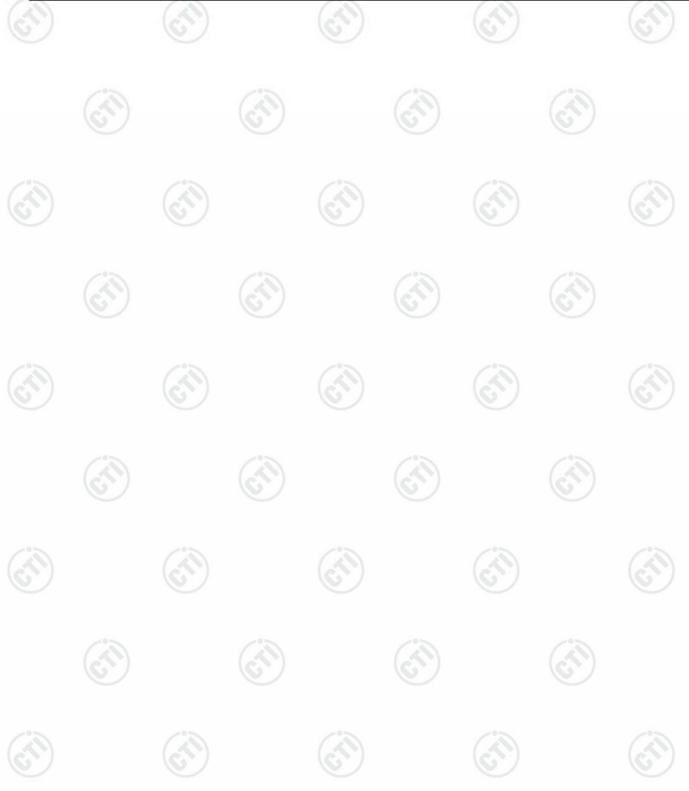




Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.



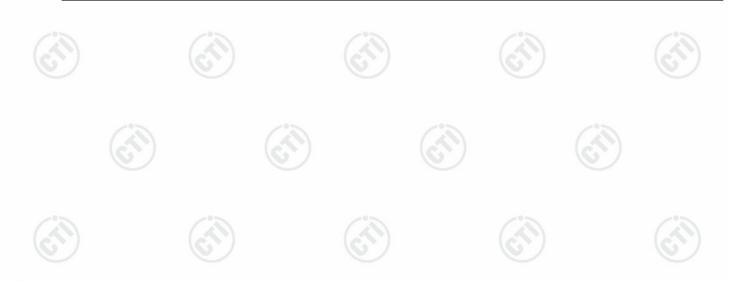






5.11 Radiated Spurious Emission & Restricted bands

	1.20 5 1.	10.2	6.2			1
	Test Requirement:	47 CFR Part 15C Section	on 15.209 and 15	.205	V	(°
	Test Method:	ANSI C63.10: 2013				
	Test Site:	Measurement Distance	: 3m (Semi-Anech	noic Cham	ber)	
8		Frequency	Detector	RBW	VBW	Remark
		0.009MHz-0.090MHz	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-0.490MHz	z Peak	10kHz	30kHz	Peak
	Receiver Setup:	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
			Peak	1MHz	3MHz	Peak
		Above 1GHz	Peak	1MHz	10kHz	Average
		Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)
		0.009MHz-0.490MHz	2400/F(kHz)	-		300
		0.490MHz-1.705MHz	24000/F(kHz)	-	6	30
		1.705MHz-30MHz	30	-		30
		30MHz-88MHz	100	40.0	Quasi-peak	3
	Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3
	Linne.	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 e peak emission lev	above the maxin equipment under t	num permi test. This p	tted average	emission limit

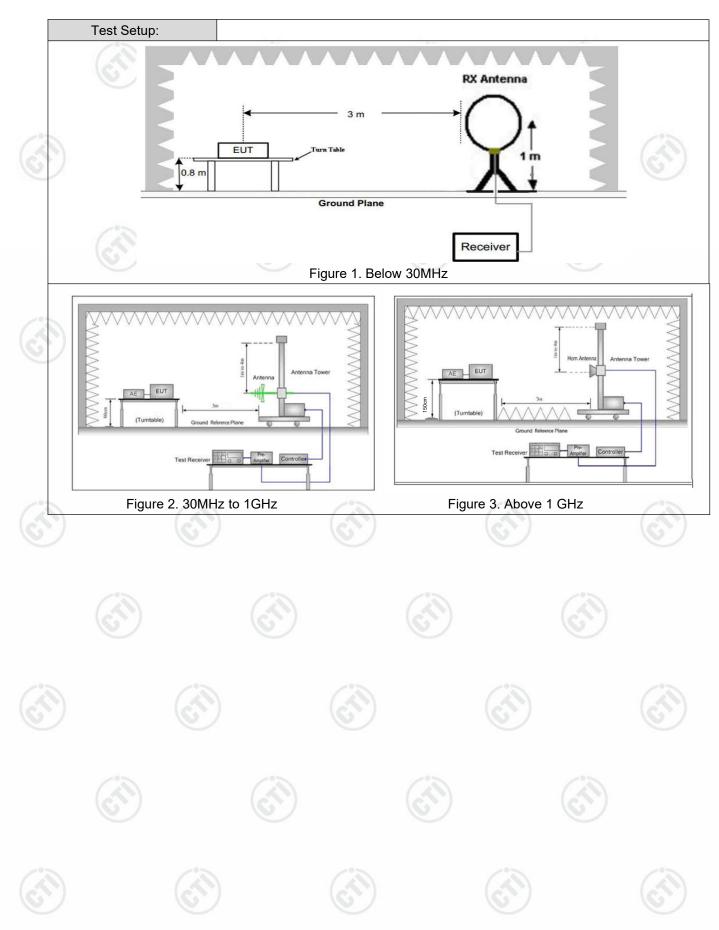


















	Test Procedure:	 a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters 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 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. b. The EUT was set 3 meters away from one meter to four meters above the ground to determine 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 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
	Exploratory Test Meda	 Repeat above procedures until all frequencies measured was complete. Non-hopping transmitting mode with all kind of modulation and all kind of
	Exploratory Test Mode:	data type
	Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Transmitting mode, For below 1GHz part, through pre- scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
8	Test Results:	Pass



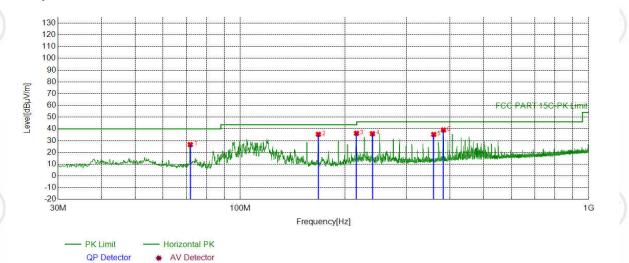




Radiated Spurious Emission below 1GHz:

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.





	Suspect	ed List								
	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	1	71.9082	-21.14	47.81	26.67	40.00	13.33	PASS	Horizontal	PK
1	2	167.656	-20.62	56.02	35.40	43.50	8.10	PASS	Horizontal	PK
Ľ	3	215.676	-17.43	53.70	36.27	43.50	7.23	PASS	Horizontal	PK
	4	239.638	-16.78	52.72	35.94	46.00	10.06	PASS	Horizontal	PK
	5	359.250	-13.82	49.11	35.29	46.00	10.71	PASS	Horizontal	PK
	6	383.212	-13.32	52.40	39.08	46.00	6.92	PASS	Horizontal	PK

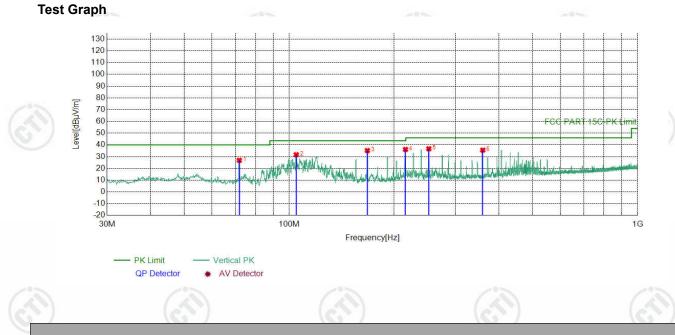




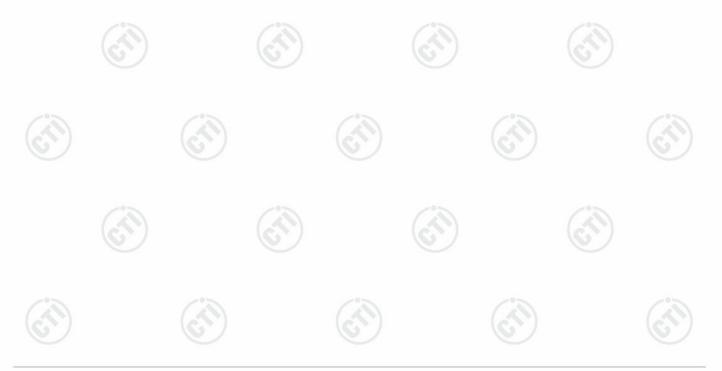




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	Suspecte	d List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	rolanty	Kemark
	1	71.9082	-21.14	48.07	26.93	40.00	13.07	PASS	Vertical	PK
	2	104.794	-18.39	50.04	31.65	43.50	11.85	PASS	Vertical	PK
	3	167.656	-20.62	55.83	35.21	43.50	8.29	PASS	Vertical	PK
1	4	215.676	-17.43	53.59	36.16	43.50	7.34	PASS	Vertical	PK
1	5	251.570	-16.53	53.27	36.74	46.00	9.26	PASS	Vertical	PK
9	6	359.347	-13.82	49.40	35.58	46.00	10.42	PASS	Vertical	PK









Radiated Spurious Emission above 1GHz:

Mode:		_	GF	SK Transmi	tting	Channel:		2402 MH	z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dΒ μV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1249.8250	0.93	42.68	43.61	74.00	30.39	PASS	Н	PK
2	1924.4924	4.16	41.61	45.77	74.00	28.23	PASS	н	PK
3	4801.1201	-16.23	62.20	45.97	74.00	28.03	PASS	Н	PK
4	7586.3058	-11.20	53.75	42.55	74.00	31.45	PASS	Н	PK
5	9602.4402	-7.35	57.39	50.04	74.00	23.96	PASS	н	PK
6	14368.7579	0.70	49.55	50.25	74.00	23.75	PASS	н	PK
7	1398.0398	1.38	44.32	45.70	74.00	28.30	Pass	V	PK
8	1998.6999	4.54	41.37	45.91	74.00	28.09	Pass	V	PK
9	4190.0793	-18.04	60.33	42.29	74.00	31.71	Pass	V	PK
10	5760.1840	-13.71	58.66	44.95	74.00	29.05	Pass	V	PK
11	7857.3238	-11.11	53.72	42.61	74.00	31.39	Pass	V	PK
12	12553.6369	-4.44	53.47	49.03	74.00	24.97	Pass	V	PK

6		1							
Mode:	Mode:		GF	GFSK Transmitting				2441 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dB µV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1258.4258	0.95	42.24	43.19	74.00	30.81	PASS	Н	PK
2	2017.1017	4.61	41.46	46.07	74.00	27.93	PASS	н	PK
3	4879.1253	-16.21	61.13	44.92	74.00	29.08	PASS	н	PK
4	7080.2720	-11.63	54.03	42.40	74.00	31.60	PASS	н	PK
5	9758.4506	-7.52	56.88	49.36	74.00	24.64	PASS	н	PK
6	13721.7148	-1.74	51.67	49.93	74.00	24.07	PASS	н	PK
7	1193.2193	0.80	42.44	43.24	74.00	30.76	Pass	V	PK
8	1839.8840	3.58	42.13	45.71	74.00	28.29	Pass	V	PK
9	3844.0563	-19.18	57.23	38.05	74.00	35.95	Pass	V	PK
10	4879.1253	-16.21	59.80	43.59	74.00	30.41	Pass	V	PK
11	9758.4506	-7.52	56.85	49.33	74.00	24.67	Pass	V	PK
12	14309.7540	-0.28	51.58	51.30	74.00	22.70	Pass	V	PK





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Mode:			GF	SK Transmi	tting	Channel:	l: 2480 MHz		
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dB µV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1147.8148	0.83	43.07	43.90	74.00	30.10	PASS	Н	PK
2	1964.0964	4.36	41.60	45.96	74.00	28.04	PASS	н	PK
3	3864.0576	-19.15	57.71	38.56	74.00	35.44	PASS	Н	PK
4	4957.1305	-15.98	59.07	43.09	74.00	30.91	PASS	Н	PK
5	7112.2742	-11.61	55.42	43.81	74.00	30.19	PASS	Н	PK
6	9914.4610	-7.09	56.45	49.36	74.00	24.64	PASS	н	PK
7	1151.0151	0.82	42.66	43.48	74.00	30.52	Pass	V	PK
8	1990.8991	4.50	43.47	47.97	74.00	26.03	Pass	V	PK
9	3190.0127	-20.38	60.98	40.60	74.00	33.40	Pass	V	PK
10	4957.1305	-15.98	59.59	43.61	74.00	30.39	Pass	V	PK
11	5759.1839	-13.71	58.39	44.68	74.00	29.32	Pass	V	PK
12	9914.4610	-7.09	57.23	50.14	74.00	23.86	Pass	V	PK

M	ode:			π/4D	QPSK Trans	mitting	Channel:		2402 MH	z
N	10	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dB µV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1175.6176	0.81	42.86	43.67	74.00	30.33	PASS	Н	PK
	2	1867.2867	3.78	41.12	44.90	74.00	29.10	PASS	н	PK
	3	4801.1201	-16.23	60.97	44.74	74.00	29.26	PASS	н	PK
	4	7638.3092	-11.15	53.71	42.56	74.00	31.44	PASS	Н	PK
	5	9602.4402	-7.35	56.59	49.24	74.00	24.76	PASS	Н	PK
	6	14349.7567	0.39	50.38	50.77	74.00	23.23	PASS	н	PK
	7	1398.4398	1.38	43.97	45.35	74.00	28.65	Pass	V	PK
	8	1990.4991	4.50	41.87	46.37	74.00	27.63	Pass	V	PK
	9	4192.0795	-18.03	58.20	40.17	74.00	33.83	Pass	V	PK
1	10	4801.1201	-16.23	58.55	42.32	74.00	31.68	Pass	V	PK
1	11	9602.4402	-7.35	56.04	48.69	74.00	25.31	Pass	V	PK
1	12	14343.7563	0.29	49.64	49.93	74.00	24.07	Pass	V	PK









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Mode:	Mode:			QPSK Trans	mitting	Channel:		2441 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dB µV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1252.8253	0.94	42.48	43.42	74.00	30.58	PASS	Н	PK
2	1899.2899	4.02	41.76	45.78	74.00	28.22	PASS	н	PK
3	4879.1253	-16.21	60.84	44.63	74.00	29.37	PASS	Н	PK
4	6945.2630	-11.83	54.00	42.17	74.00	31.83	PASS	н	PK
5	9758.4506	-7.52	56.55	49.03	74.00	24.97	PASS	н	PK
6	14358.7573	0.54	49.73	50.27	74.00	23.73	PASS	н	PK
7	1394.2394	1.37	43.76	45.13	74.00	28.87	Pass	V	PK
8	1763.2763	3.16	42.17	45.33	74.00	28.67	Pass	V	PK
9	4879.1253	-16.21	59.29	43.08	74.00	30.92	Pass	V	PK
10	5759.1839	-13.71	59.98	46.27	74.00	27.73	Pass	V	PK
11	9758.4506	-7.52	57.56	50.04	74.00	23.96	Pass	V	PK
12	14337.7559	0.19	49.92	50.11	74.00	23.89	Pass	V	PK
	0	/		07		(U)			0

Mode:			π/4D	QPSK Trans	mitting	Channel:		2480 MH	z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dB µV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1293.4293	1.04	42.29	43.33	74.00	30.67	PASS	Н	PK
2	2027.9028	4.64	41.40	46.04	74.00	27.96	PASS	Н	PK
3	4957.1305	-15.98	59.40	43.42	74.00	30.58	PASS	Н	PK
4	7654.3103	-11.12	53.88	42.76	74.00	31.24	PASS	н	PK
5	9914.4610	-7.09	56.20	49.11	74.00	24.89	PASS	н	PK
6	14239.7493	-0.78	50.73	49.95	74.00	24.05	PASS	н	PK
7	1265.4265	0.97	42.77	43.74	74.00	30.26	Pass	V	PK
8	1766.4766	3.17	42.11	45.28	74.00	28.72	Pass	V	PK
9	4957.1305	-15.98	59.09	43.11	74.00	30.89	Pass	V	PK
10	5760.1840	-13.71	58.40	44.69	74.00	29.31	Pass	V	PK
11	9914.4610	-7.09	58.24	51.15	74.00	22.85	Pass	V	PK
12	14335.7557	0.15	50.02	50.17	74.00	23.83	Pass	V	PK
		/					1		













Mode:			8DI	PSK Transm	itting	Channel:		2402 MH	z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dB µV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1206.6207	0.82	42.59	43.41	74.00	30.59	PASS	Н	PK
2	1836.4836	3.55	41.53	45.08	74.00	28.92	PASS	н	PK
3	4801.1201	-16.23	61.49	45.26	74.00	28.74	PASS	Н	PK
4	7044.2696	-11.71	54.85	43.14	74.00	30.86	PASS	н	PK
5	9601.4401	-7.35	56.29	48.94	74.00	25.06	PASS	Н	PK
6	14314.7543	-0.20	50.23	50.03	74.00	23.97	PASS	Н	PK
7	1398.2398	1.38	43.69	45.07	74.00	28.93	Pass	V	PK
8	2027.1027	4.64	41.40	46.04	74.00	27.96	Pass	V	PK
9	4801.1201	-16.23	58.44	42.21	74.00	31.79	Pass	V	PK
10	5759.1839	-13.71	58.67	44.96	74.00	29.04	Pass	V	PK
11	9602.4402	-7.35	55.93	48.58	74.00	25.42	Pass	V	PK
12	13687.7125	-1.75	52.00	50.25	74.00	23.75	Pass	V	PK

Mode	:		8DI	PSK Transm	itting	Channel:		2441 MH	z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dB µV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1159.6160	0.82	43.03	43.85	74.00	30.15	PASS	Н	PK
2	1775.6776	3.20	42.07	45.27	74.00	28.73	PASS	н	PK
3	3706.0471	-19.88	57.69	37.81	74.00	36.19	PASS	Н	PK
4	4882.1255	-16.21	62.23	46.02	74.00	27.98	PASS	н	PK
5	9758.4506	-7.52	57.25	49.73	74.00	24.27	PASS	н	PK
6	14253.7503	-0.70	51.73	51.03	74.00	22.97	PASS	Н	PK
7	1238.0238	0.90	42.57	43.47	74.00	30.53	Pass	V	PK
8	1855.6856	3.70	41.24	44.94	74.00	29.06	Pass	V	PK
9	4879.1253	-16.21	59.58	43.37	74.00	30.63	Pass	V	PK
10	7323.2882	-11.65	55.95	44.30	74.00	29.70	Pass	V	PK
11	9758.4506	-7.52	60.06	52.54	74.00	21.46	Pass	V	PK
12	13718.7146	-1.74	52.01	50.27	74.00	23.73	Pass	V	PK









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Mode:			8D	PSK Transm	itting	Channel:		2480 MH	z
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dB µV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1149.2149	0.83	42.53	43.36	74.00	30.64	PASS	Н	PK
2	2062.9063	4.76	40.79	45.55	74.00	28.45	PASS	н	PK
3	3734.0489	-19.69	57.59	37.90	74.00	36.10	PASS	Н	PK
4	4960.1307	-15.97	62.85	46.88	74.00	27.12	PASS	н	PK
5	9914.4610	-7.09	57.79	50.70	74.00	23.30	PASS	н	PK
6	14303.7536	-0.38	50.27	49.89	74.00	24.11	PASS	н	PK
7	1267.8268	0.98	42.60	43.58	74.00	30.42	Pass	V	PK
8	2105.9106	4.82	41.62	46.44	74.00	27.56	Pass	V	PK
9	3795.0530	-19.27	56.98	37.71	74.00	36.29	Pass	V	PK
10	4957.1305	-15.98	59.69	43.71	74.00	30.29	Pass	V	PK
11	7812.3208	-11.32	53.96	42.64	74.00	31.36	Pass	V	PK
12	9914.4610	-7.09	59.90	52.81	74.00	21.19	Pass	V	PK
		/							0

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:



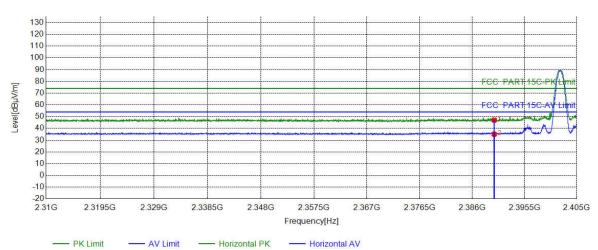




Test plot as follows:

Mode:	GFSK Transmitting	Channel:	2402 MHz
Remark:		0	1

Test Graph



 ----- Horizontal AV

6	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	41.26	47.03	74.00	26.97	PASS	Horizontal	PK
	2	2390.0000	5.77	29.30	35.07	54.00	18.93	PASS	Horizontal	AV

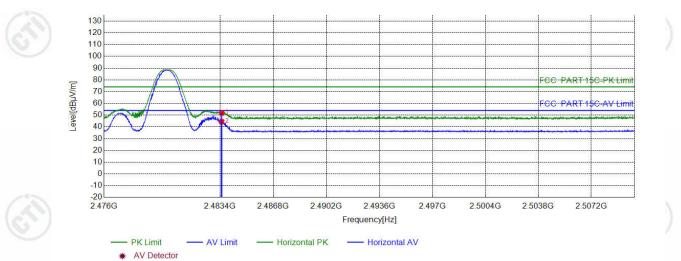






Mode:	GFSK Transmitting	Channel:	2480 MHz
Remark:		S A A	S

Test Graph



NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	45.14	51.71	74.00	22.29	PASS	Horizontal	PK
2	2483.5000	6.57	37.91	44.48	54.00	9.52	PASS	Horizontal	AV







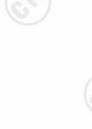




















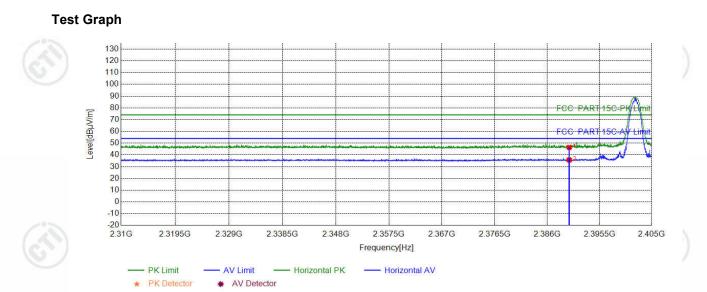
Hotline:400-6788-333 www.cti-cert.com E-mail:info@cti-cert.com Complaint call:0755-33681700 Complaint E-mail:complaint@cti-cert.com







Mode:	π/4DQPSK Transmitting	Channel:	2402 MHz
Remark:		U	V



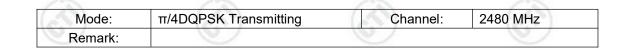
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.61	46.38	74.00	27.62	PASS	Horizontal	PK
2	2390.0000	5.77	29.95	35.72	54.00	18.28	PASS	Horizontal	AV

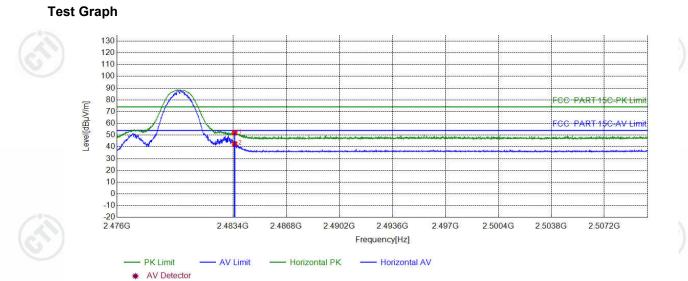




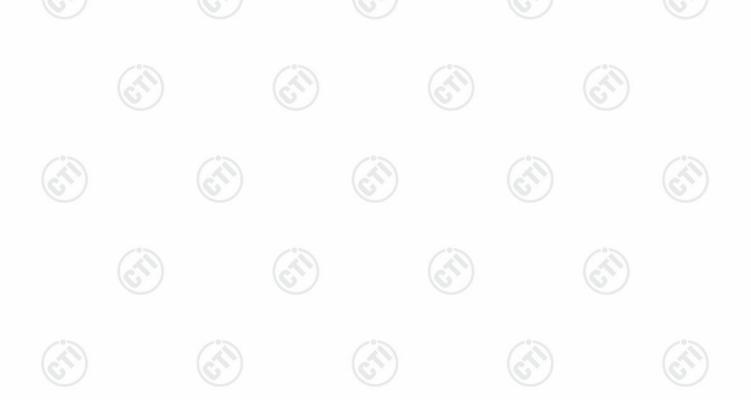






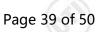


NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	45.34	51.91	74.00	22.09	PASS	Horizontal	PK
2	2483.5000	6.57	36.07	42.64	54.00	11.36	PASS	Horizontal	AV



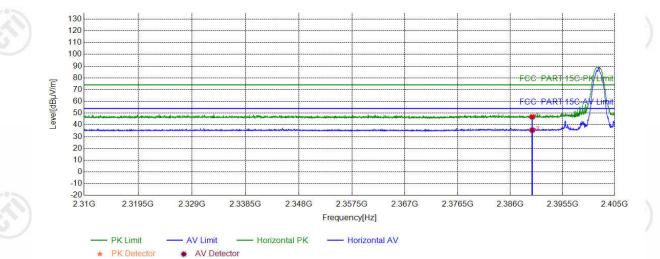






Mode:	8DPSK Transmitting	Channel:	2402 MHz
Remark:		I A A A A A A A A A A A A A A A A A A A	e





NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	41.11	46.88	74.00	27.12	PASS	Horizontal	PK
2	2390.0000	5.77	29.83	35.60	54.00	18.40	PASS	Horizontal	AV















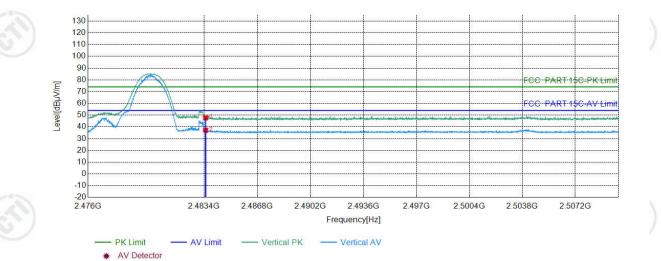












NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	41.11	47.68	74.00	26.32	PASS	Horizontal	PK
2	2483.5000	6.57	30.51	37.08	54.00	16.92	PASS	Horizontal	AV

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

