



Page 1 of 66

TEST	REPORT

Product

FCC ID

Trade mark

Serial Number

Report Number

Date of Issue

Test result

Test Standards

Model/Type reference

: Audio and Video Equipment for Vehicle

- HYUNDAI/KIA
- : MTXMO420LBR2PE
- : S/N
- : EED32O80607501
- BP9-MO420LBR2PE
- : May 27, 2022
- : 47 CFR Part 15 Subpart C

: PASS

Prepared for:

MOTREX Co., LTD. Seoyoung Bldg. 25, Hwangsaeul-ro 258beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea

Prepared by:

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Approved	2	Aaron Ma	Date:	May 27, 2022	
Report Seal	UP CO.	Aaron Ma		Check No.::3	024290422

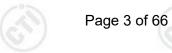




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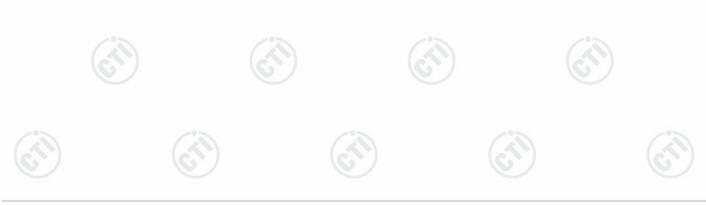




2 Version

Version No.	Date	Description	
00	May 27, 2022	Original	12
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3 Test Summary

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	N/A
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

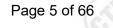
Remark:

N/A:the product is powered by DC12.0V.

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.







4 General Information

4.1 Client Information

Applicant:	MOTREX Co., LTD.
Address of Applicant:	Seoyoung Bldg. 25, Hwangsaeul-ro 258beon-gil, Bundang-gu, Seongnam- si, Gyeonggi-do, South Korea
Manufacturer:	Skypine Electronics (ShenZhen)Co.,Ltd
Address of Manufacturer:	A1,A5 Building, No.6, Xinxing Industrial Park, Xinhe Village, Fuyong Town, Bao'an District, Shenzhen City,Guangdong Province,China
Factory:	Skypine Electronics (ShenZhen)Co.,Ltd
Address of Factory:	A1,A5 Building, No.6, Xinxing Industrial Park, Xinhe Village, Fuyong Town, Bao'an District, Shenzhen City,Guangdong Province,China

4.2 General Description of EUT

Product Na	ne:	Audio and Video E	quipment	for Vehicle		
Model No.:		MTXMO420LBR2F	۶E	~		1
Test Model	No.:	MTXMO420LBR2F	ΡE	(25)		(\sim)
Trade Mark		HYUNDAI/KIA		U		U
Product Typ	e:		ortable	☑ Fix Location		
Operation F	requency:	2402MHz~2480MH	Ηz		~	
Modulation	Technique:	Frequency Hopping	g Spread	Spectrum(FHSS)		
Modulation	Гуре:	GFSK, π/4DQPSK	, 8DPSK	\mathcal{O}	U	
Number of (Channel:	79				
Hopping Ch	annel Type:	Adaptive Frequence	y Hoppin	g systems		
Antenna Ty	be:	PCB Antenna	.)			
Antenna Ga	in:	0dBi		0		(U)
Power Supp	ly:	DC 12.0V				
Test Voltage	9:	DC 12.0V		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	13	
Sample Rec	eived Date:	May. 05, 2022	(<u>5</u>)	(\mathcal{C})	
Sample test	ed Date:	May. 11, 2022 to M	1ay. 18, 2	022	\sim	





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:

~	Channel	Frequency		
6	The Lowest channel	2402MHz	(S ^N	
	The Middle channel	2441MHz		
	The Highest channel	2480MHz		





4.3 Test Configuration

Softwar	e:		RTLBTAPF	P.exe				
EUT Po	wer Grade):	Default					
Use tes transmit	t software tting of the	to set the lov EUT.	vest frequency	y, the middle f	requency and	the highest f	requency keep	63
/	Mode		Channel		Frequency(MHz)		C	
			СН0			2402		
	DH1/DH3/	/DH5	12	CH39	13		2441	
- (S)		(\mathcal{O})	CH78	(\tilde{c}^{n})		2480	
				CH0	\bigcirc		2402	
21	DH1/2DH3	3/2DH5		CH39			2441	
<u> </u>				CH78			2480	(2
				CH0		6	2402	C
31	DH1/3DH3	3/3DH5		CH39			2441	
	- 11			CH78	- 0.15		2480	







4.4 Test Environment

Operating Environme	nt:								
Radiated Spurious En	Radiated Spurious Emissions:								
Temperature:	22~25.0 °C								
Humidity:	50~55 % RH								
Atmospheric Pressure:	1010mbar		100		13				
Conducted Emissions	:								
Temperature:	22~25.0 °C		J		J				
Humidity:	50~55 % RH								
Atmospheric Pressure:	1010mbar	-05		1000					
RF Conducted:									
Temperature:	22~25.0 °C	S		S					
Humidity:	50~55 % RH								
Atmospheric Pressure:	1010mbar								
2°2			~°>>		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				



Description of Support Units

The EUT has been tested with associated equipment below.

support equipment

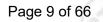
Description	Manufacturer	Model No.	Certification	Supplied by
Notebook	DELL	DELL 3490	FCC ID and DOC	СТІ

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
~	DE nover conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
		3.3dB (9kHz-30MHz)
2	Dedicted Sourieus omission test	4.3dB (30MHz-1GHz)
3	Radiated Spundus emission test	4.5dB (1GHz-18GHz)
	Radiated Spurious emission test	3.4dB (18GHz-40GHz)
	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

		RF test s	system		
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	QZ20150611879	12-24-2021	12-23-2022
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-24-2021	06-23-2022
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518	(d)	6

	3M Semi-anechoic Chamber (2)- Radiated disturbance Test				
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3		05/22/2022	05/21/2025
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/070/10711112			
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Spectrum Analyzer	R&S	FSP40	100416	04/01/2022	03/31/2023
Microwave Preamplifier	Agilent	8449B	3008A02425	06/23/2021	06/22/2022





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3M full-anechoic 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	- (3	- (
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023
Spectrum Analyzer	Keysight	N9020B	MY57111112	02-23-2022	02-22-2023
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023
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	04-01-2022	03-31-2023
Preamplifier	JS Tonscend	980380	EMC051845SE	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	04-11-2022	04-10-2023
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	- 0	- 0
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		2
Cable line	Times	SFT205-NMSM-2.50M	394812-0003		
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	<u> -</u>	-(2
Cable line	Times	EMC104-NMNM-1000	SN160710	<u> </u>	0
Cable line	Times	SFT205-NMSM-3.00M	394813-0001		
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	6	- 0
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)

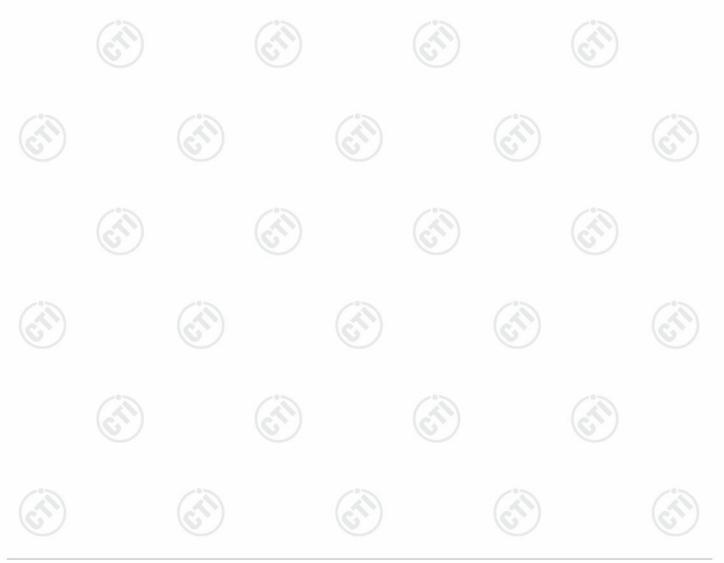
15.203 requirement:

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	6
The antenna is PCB antenna	a. The best case gain of the antenna is 0dBi.	









5.2 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Computer Control Power Suppy TemPERATURE CABNET Table
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	Use the following spectrum analyzer settings: 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















5.3 20dB Emission Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Compute 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. 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
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 GFSI modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSI$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Refer to Appendix A







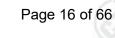
5.4 Carrier Frequency Separation

	Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
	Test Method:	ANSI C63.10:2013
6	Test Setup:	Control Control Control Control Power port Power port Power port Fubre Attenuator Teler 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. 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.
(C	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.
1	Test Results:	Refer to Appendix A
(\mathbf{c})	C.	



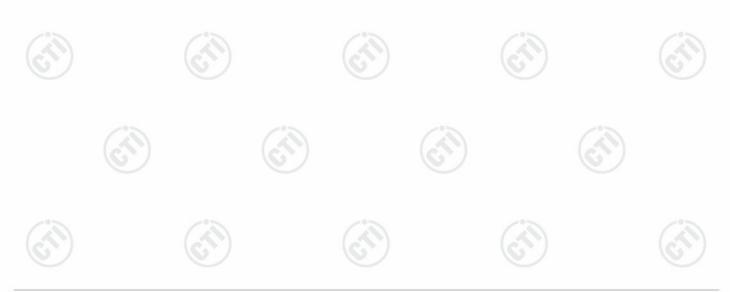






5.5 Number of Hopping Channel

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Control Control Control Power Supply Teber 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.
	 4. 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. 5. The number of hopping frequency used is defined as the number of
-	total channel.6. 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
(2)	









5.6 Time of Occupancy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Control Computer Supply Fourer Supply TemPERATURE CABNET 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. 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













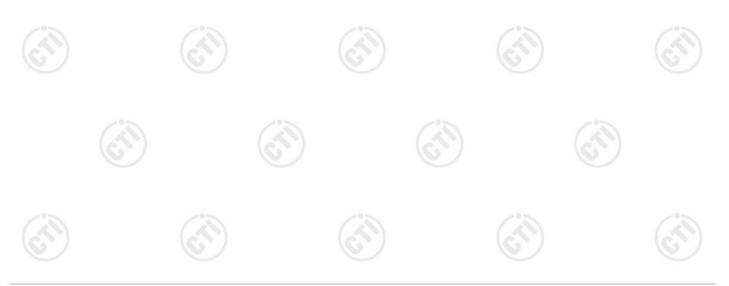






5.7 Band edge Measurements

	Test Requirement:	47 CFR Part 15C Section 15.247 (d)
	Test Method:	ANSI C63.10:2013
(CN)	Test Setup:	Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Power Power Power Control Control Power Power Control Control Control Control Control Power Control Co
		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.
3	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.
2	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, 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







5.8 Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013				
Test Setup:	Control EUT Control RF test Control Advanage Power Power Power Attenuator Table RF test				
	Remark: Offset=Cable loss+ attenuation factor.				
	 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. 				
	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				
	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.				







5.9 Pseudorandom Frequency Hopping Sequence

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 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 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.

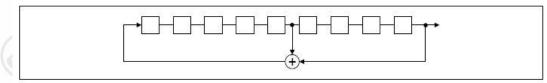
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of 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)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a ninestage shift register whose 5th and 9th stage

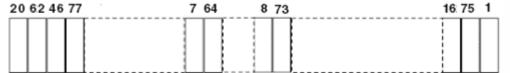
outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- 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:



Each frequency used equally on the average by each transmitter.

According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

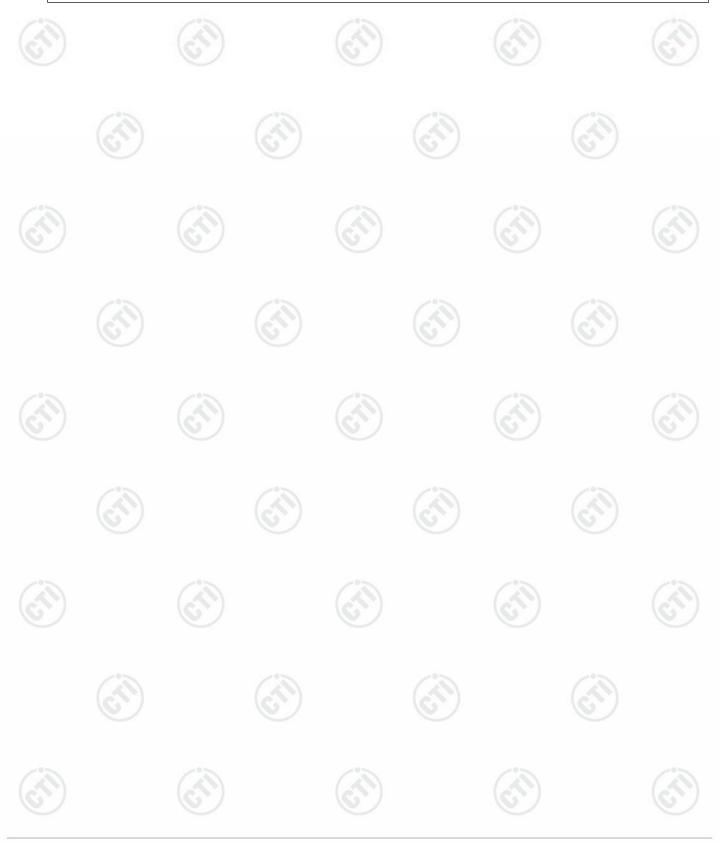




Compliance for section 15.247(h)

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.







5.10 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section	on 15.209 and 15.2	205	13	S
Test Method:	ANSI C63.10: 2013	(3)		6)
Test Site:	Measurement Distance:	3m (Semi-Anech	oic Chaml	per)	
Receiver Setup:	Frequency	Detector	Detector RBW		Remark
	0.009MHz-0.090MHz	z Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	z Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	2 Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	z Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	z Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	30MHz-1GHz Peak		z 300kHz	Peak
		Peak	1MHz	3MHz	Peak
	Above 1GHz	Peak	1MHz	10kHz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-/3	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 of emissions is 20dB applicable to the e	above the maxim	um permi	tted average	emission limit

peak emission level radiated by the device.



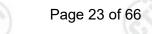


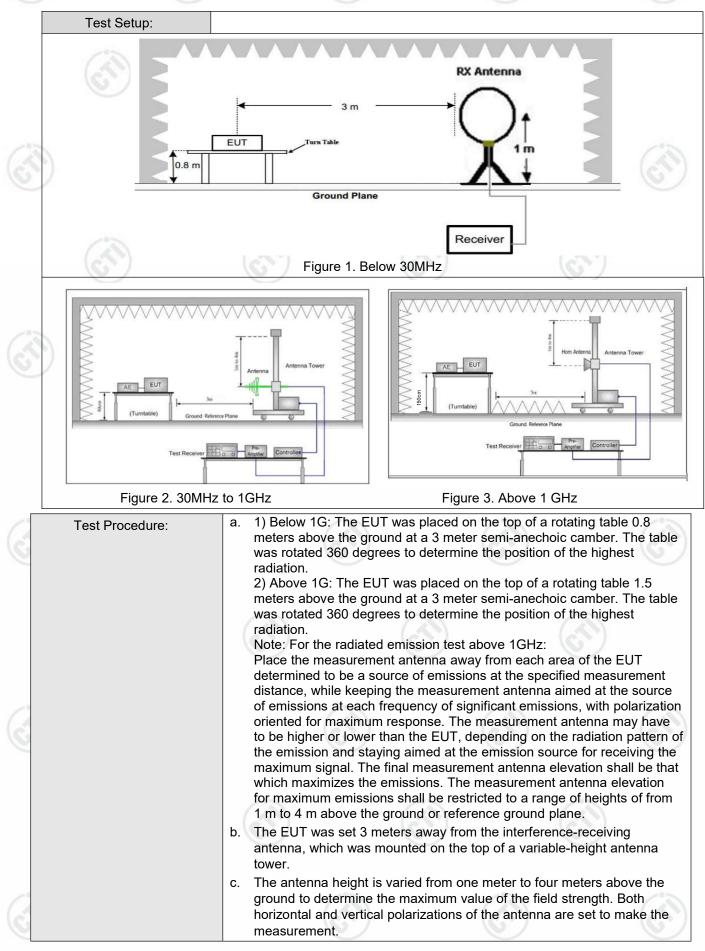












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		 For each suspected emission, the and then the antenna was tuned the test frequency of below 30M meter) and the rotatable table we degrees to find the maximum results. 	l to heights from 1 meter to Hz, the antenna was tuned as turned from 0 degrees to ading.	4 meters (for I to heights 1 o 360
		e. The test-receiver system was se Bandwidth with Maximum Hold I		and Specified
Ċ		f. If the emission level of the EUT limit specified, then testing could EUT would be reported. Otherwi margin would be re-tested one be average method as specified an	d be stopped and the peak ise the emissions that did n by one using peak, quasi-pe	values of the not have 10dB eak or
		g. Test the EUT in the lowest chan (2441MHz),the Highest channel		channel
		 The radiation measurements are for Transmitting mode, and foun worst case. 		
		i. Repeat above procedures until a	all frequencies measured w	as complete.
0	Exploratory Test Mode:	Non-hopping transmitting mode with data type	all kind of modulation and	all kind of
Ğ	Final Test Mode:	Through Pre-scan, find the DH5 of worst case.	data type and GFSK mo	dulation is the
		Pretest the EUT at Transmitting me scan, the worst case is the lowest ch	•	, through pre-
		Only the worst case is recorded in the	ne report.	
	Test Results:	Pass) (67)

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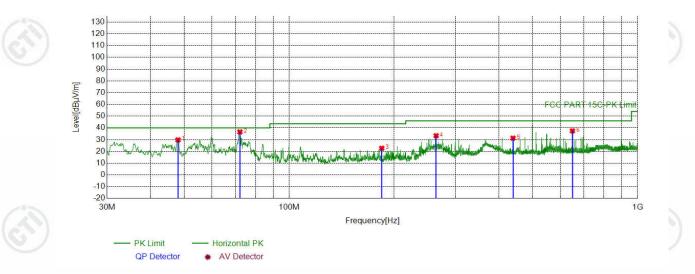




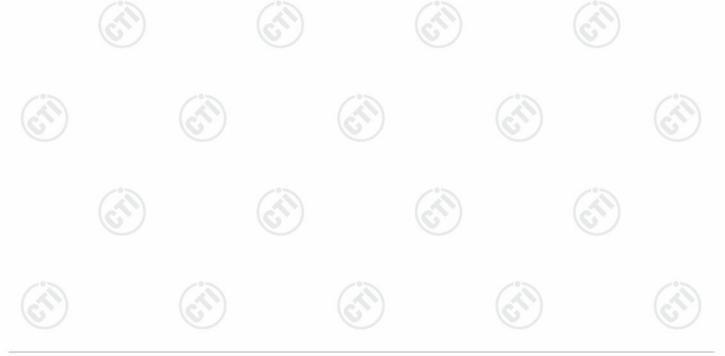
Radiated Spurious Emission below 1GHz:

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.

Test Graph

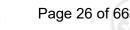


	Suspe	cted List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Tolanty	
	1	47.9468	-17.17	46.97	29.80	40.00	10.20	PASS	Horizontal	PK
	2	72.1992	-21.19	57.79	36.60	40.00	3.40	PASS	Horizontal	PK
×.	3	184.3424	-19.36	42.07	22.71	43.50	20.79	PASS	Horizontal	PK
5	4	264.0844	-16.27	49.64	33.37	46.00	12.63	PASS	Horizontal	PK
	5	438.8959	-12.04	43.35	31.31	46.00	14.69	PASS	Horizontal	PK
	6	649.9890	-8.25	45.73	37.48	46.00	8.52	PASS	Horizontal	PK

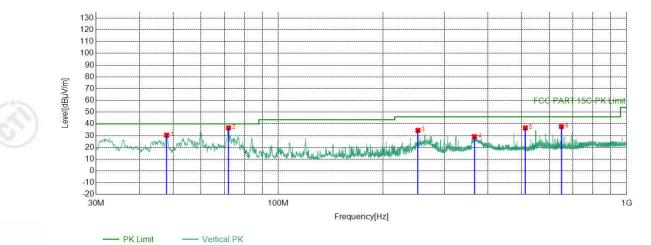








Test Graph



QP Detector * AV Detector

Suspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Desuit	Delevite	Demend
NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
1	47.8498	-17.17	47.63	30.46	40.00	9.54	PASS	Vertical	PK
2	72.0052	-21.15	57.82	36.67	40.00	3.33	PASS	Vertical	PK
3	251.8612	-16.52	51.07	34.55	46.00	11.45	PASS	Vertical	PK
4	365.7506	-13.65	42.84	29.19	46.00	16.81	PASS	Vertical	PK
5	512.0412	-10.61	47.21	36.60	46.00	9.40	PASS	Vertical	PK
6	649.9890	-8.25	46.01	37.76	46.00	8.24	PASS	Vertical	PK
	•			-0-			0		100 March 100 Ma

























Radiated Spurious Emission above 1GHz:

Mode	:		GFSK Transmitting			Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1190.4190	0.80	40.93	41.73	74.00	32.27	PASS	Horizontal	PK
2	1987.2987	4.48	39.62	44.10	74.00	29.90	PASS	Horizontal	PK
3	5600.1733	-14.27	57.90	43.63	74.00	30.37	PASS	Horizontal	PK
4	7457.2972	-11.27	52.66	41.39	74.00	32.61	PASS	Horizontal	PK
5	10334.4890	-6.40	50.98	44.58	74.00	29.42	PASS	Horizontal	PK
6	14368.7579	0.70	48.33	49.03	74.00	24.97	PASS	Horizontal	PK
7	1062.0062	0.89	42.48	43.37	74.00	30.63	PASS	Vertical	PK
8	1600.0600	2.29	42.82	45.11	74.00	28.89	PASS	Vertical	PK
9	4800.1200	-16.23	60.62	44.39	74.00	29.61	PASS	Vertical	PK
10	8530.3687	-10.49	57.32	46.83	74.00	27.17	PASS	Vertical	PK
11	10825.5217	-6.27	51.46	45.19	74.00	28.81	PASS	Vertical	PK
12	14402.7602	1.18	47.73	48.91	74.00	25.09	PASS	Vertical	PK
\sim)		(6))	6)	6	°)		(c^{γ})

Mode	e:		GFSK Transmit	FSK Transmitting				2441 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1193.2193	0.80	43.14	43.94	74.00	30.06	PASS	Horizontal	PK
2	2014.1014	4.60	40.18	44.78	74.00	29.22	PASS	Horizontal	PK
3	5441.1627	-14.53	53.89	39.36	74.00	34.64	PASS	Horizontal	PK
4	8314.3543	-10.97	52.59	41.62	74.00	32.38	PASS	Horizontal	PK
5	11184.5456	-6.39	51.96	45.57	74.00	28.43	PASS	Horizontal	PK
6	15391.8261	0.43	48.88	49.31	74.00	24.69	PASS	Horizontal	PK
7	1064.4064	0.89	43.13	44.02	74.00	29.98	PASS	Vertical	PK
8	2015.5016	4.60	40.75	45.35	74.00	28.65	PASS	Vertical	PK
9	4800.1200	-16.23	61.19	44.96	74.00	29.04	PASS	Vertical	PK
10	8529.3686	-10.49	55.22	44.73	74.00	29.27	PASS	Vertical	PK
11	10782.5188	-6.27	51.72	45.45	74.00	28.55	PASS	Vertical	PK
12	14395.7597	1.15	47.43	48.58	74.00	25.42	PASS	Vertical	PK







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Mode	:		GFSK Transmit	tting		Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1150.2150	0.82	47.48	48.30	74.00	25.70	PASS	Horizontal	PK
2	1981.4982	4.45	40.12	44.57	74.00	29.43	PASS	Horizontal	PK
3	4264.0843	-17.51	60.89	43.38	74.00	30.62	PASS	Horizontal	PK
4	6399.2266	-12.86	56.21	43.35	74.00	30.65	PASS	Horizontal	PK
5	9205.4137	-7.88	51.77	43.89	74.00	30.11	PASS	Horizontal	PK
6	14391.7595	1.08	47.58	48.66	74.00	25.34	PASS	Horizontal	PK
7	1118.4118	0.84	42.86	43.70	74.00	30.30	PASS	Vertical	PK
8	1926.2926	4.17	39.61	43.78	74.00	30.22	PASS	Vertical	PK
9	4800.1200	-16.23	60.72	44.49	74.00	29.51	PASS	Vertical	PK
10	8509.3673	-10.53	55.38	44.85	74.00	29.15	PASS	Vertical	PK
11	11290.5527	-6.61	51.73	45.12	74.00	28.88	PASS	Vertical	PK
12	13755.7170	-1.69	50.10	48.41	74.00	25.59	PASS	Vertical	PK

6	Mode	:	-	π/4DQPSK Tra	nsmitting		Channel:		2402 MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1158.2158	0.82	47.70	48.52	74.00	25.48	PASS	Horizontal	PK
	2	1946.8947	4.27	40.07	44.34	74.00	29.66	PASS	Horizontal	PK
	3	4252.0835	-17.61	58.07	40.46	74.00	33.54	PASS	Horizontal	PK
	4	7114.2743	-11.62	52.80	41.18	74.00	32.82	PASS	Horizontal	PK
- 61	5	11885.5924	-5.87	51.68	45.81	74.00	28.19	PASS	Horizontal	PK
4	6	14398.7599	1.20	49.07	50.27	74.00	23.73	PASS	Horizontal	PK
6	7	1176.0176	0.81	42.00	42.81	74.00	31.19	PASS	Vertical	PK
	8	1882.2882	3.90	39.80	43.70	74.00	30.30	PASS	Vertical	PK
	9	4800.1200	-16.23	60.25	44.02	74.00	29.98	PASS	Vertical	PK
	10	6642.2428	-12.68	55.70	43.02	74.00	30.98	PASS	Vertical	PK
	11	9264.4176	-7.93	51.09	43.16	74.00	30.84	PASS	Vertical	PK
	12	13120.6747	-3.56	50.46	46.90	74.00	27.10	PASS	Vertical	PK



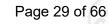








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Mode	:		π/4DQPSK Tra	nsmitting		Channel:		2441 MHz	
NO	Freq. [MHz]	Factor [dB]	r Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1152.6153	0.82	47.87	48.69	74.00	25.31	PASS	Horizontal	PK
2	1928.4928	4.18	39.68	43.86	74.00	30.14	PASS	Horizontal	PK
3	4800.1200	-16.23	56.49	40.26	74.00	33.74	PASS	Horizontal	PK
4	7227.2818	-11.80	53.02	41.22	74.00	32.78	PASS	Horizontal	PK
5	9286.4191	-7.94	51.56	43.62	74.00	30.38	PASS	Horizontal	PK
6	13283.6856	-3.40	50.42	47.02	74.00	26.98	PASS	Horizontal	PK
7	1220.4220	0.85	41.68	42.53	74.00	31.47	PASS	Vertical	PK
8	2043.3043	4.69	39.91	44.60	74.00	29.40	PASS	Vertical	PK
9	4800.1200	-16.23	61.17	44.94	74.00	29.06	PASS	Vertical	PK
10	7110.2740	-11.61	52.49	40.88	74.00	33.12	PASS	Vertical	PK
11	10360.4907	-6.35	50.91	44.56	74.00	29.44	PASS	Vertical	PK
12	13836.7224	-1.75	49.16	47.41	74.00	26.59	PASS	Vertical	PK

3	Mode	:		π/4DQPSK Tra	insmitting		Channel:		2480 MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1138.0138	0.83	47.98	48.81	74.00	25.19	PASS	Horizontal	PK
	2	2012.1012	4.59	40.49	45.08	74.00	28.92	PASS	Horizontal	PK
	3	4256.0837	-17.58	60.04	42.46	74.00	31.54	PASS	Horizontal	PK
	4	6888.2592	-11.90	52.73	40.83	74.00	33.17	PASS	Horizontal	PK
-6	5	10326.4884	-6.41	50.81	44.40	74.00	29.60	PASS	Horizontal	PK
4	6	13746.7164	-1.70	49.44	47.74	74.00	26.26	PASS	Horizontal	PK
6	7	1253.6254	0.94	41.83	42.77	74.00	31.23	PASS	Vertical	PK
	8	1986.2986	4.48	40.01	44.49	74.00	29.51	PASS	Vertical	PK
	9	4800.1200	-16.23	60.57	44.34	74.00	29.66	PASS	Vertical	PK
	10	7041.2694	-11.72	52.66	40.94	74.00	33.06	PASS	Vertical	PK
	11	8518.3679	-10.51	54.47	43.96	74.00	30.04	PASS	Vertical	PK
	12	12675.6450	-4.71	51.37	46.66	74.00	27.34	PASS	Vertical	PK

















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UIR	住 Eport No. : E	ED3208060	07501



Mode	:		8DPSK Transm	nitting		Channel:		2402 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1178.4178	0.81	47.58	48.39	74.00	25.61	PASS	Horizontal	PK
2	2024.3024	4.63	40.26	44.89	74.00	29.11	PASS	Horizontal	PK
3	4800.1200	-16.23	57.04	40.81	74.00	33.19	PASS	Horizontal	PK
4	7643.3096	-11.14	52.57	41.43	74.00	32.57	PASS	Horizontal	PK
5	10230.4820	-6.93	50.58	43.65	74.00	30.35	PASS	Horizontal	PK
6	13330.6887	-3.25	50.01	46.76	74.00	27.24	PASS	Horizontal	PK
7	1152.2152	0.82	41.91	42.73	74.00	31.27	PASS	Vertical	PK
8	1924.0924	4.16	39.38	43.54	74.00	30.46	PASS	Vertical	PK
9	5606.1737	-14.25	62.81	48.56	74.00	25.44	PASS	Vertical	PK
10	8522.3682	-10.51	54.89	44.38	74.00	29.62	PASS	Vertical	PK
11	11191.5461	-6.41	51.30	44.89	74.00	29.11	PASS	Vertical	PK
12	14260.7507	-0.66	47.39	46.73	74.00	27.27	PASS	Vertical	PK

2			(2)	<u></u>		N		8		
5	Mode	:		8DPSK Transm	itting		Channel:		2441 MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remar k
	1	1157.4157	0.82	47.40	48.22	74.00	25.78	PASS	Horizontal	PK
	2	1954.0954	4.31	40.09	44.40	74.00	29.60	PASS	Horizontal	PK
	3	4800.1200	-16.23	56.53	40.30	74.00	33.70	PASS	Horizontal	PK
	4	8578.3719	-10.39	51.51	41.12	74.00	32.88	PASS	Horizontal	PK
	5	11284.5523	-6.60	52.56	45.96	74.00	28.04	PASS	Horizontal	PK
Z	6	15259.8173	0.53	48.52	49.05	74.00	24.95	PASS	Horizontal	PK
5	7	1208.4208	0.82	41.83	42.65	74.00	31.35	PASS	Vertical	PK
-	8	1794.4794	3.26	40.09	43.35	74.00	30.65	PASS	Vertical	PK
	9	4800.1200	-16.23	59.99	43.76	74.00	30.24	PASS	Vertical	PK
	10	8517.3678	-10.52	55.49	44.97	74.00	29.03	PASS	Vertical	PK
	11	11401.5601	-6.13	51.50	45.37	74.00	28.63	PASS	Vertical	PK
	12	14792.7862	1.13	46.34	47.47	74.00	26.53	PASS	Vertical	PK











СТ	'i 1't		t A	
6	Report No	D. : EED	32080	607501





Mode	:		8DPSK Transm	itting		Channel:		2480 MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remar k
1	1176.0176	0.81	47.36	48.17	74.00	25.83	PASS	Horizontal	PK
2	2039.5040	4.68	40.04	44.72	74.00	29.28	PASS	Horizontal	PK
3	4800.1200	-16.23	56.76	40.53	74.00	33.47	PASS	Horizontal	PK
4	7139.2760	-11.68	53.11	41.43	74.00	32.57	PASS	Horizontal	PK
5	9747.4498	-7.55	50.48	42.93	74.00	31.07	PASS	Horizontal	PK
6	13723.7149	-1.74	49.88	48.14	74.00	25.86	PASS	Horizontal	PK
7	1177.8178	0.81	41.29	42.10	74.00	31.90	PASS	Vertical	PK
8	1938.0938	4.23	39.87	44.10	74.00	29.90	PASS	Vertical	PK
9	5599.1733	-14.27	59.13	44.86	74.00	29.14	PASS	Vertical	PK
10	8500.3667	-10.55	58.89	48.34	74.00	25.66	PASS	Vertical	PK
11	11277.5518	-6.59	51.72	45.13	74.00	28.87	PASS	Vertical	PK
12	15343.8229	-0.13	48.64	48.51	74.00	25.49	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

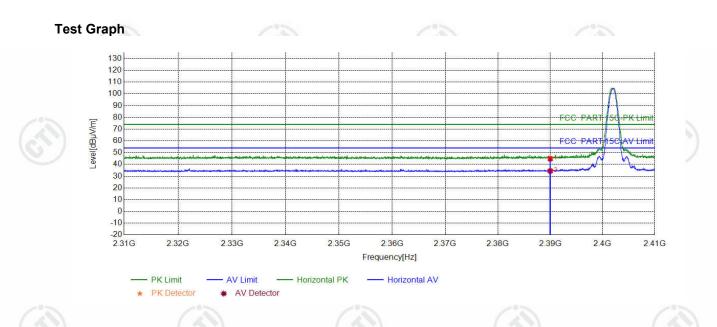
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified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





Test plot as follows:

Mode:	GFSK Transmitting	Channel:	2402	
Remark:		\odot		

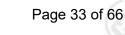


હ	Suspec	cted List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Delerity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
	1	2390.0000	5.77	39.00	44.77	74.00	29.23	PASS	Horizontal	PK
	2	2390.0000	5.77	28.64	34.41	54.00	19.59	PASS	Horizontal	AV

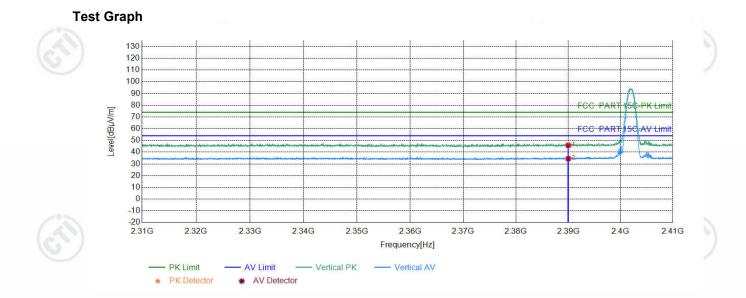




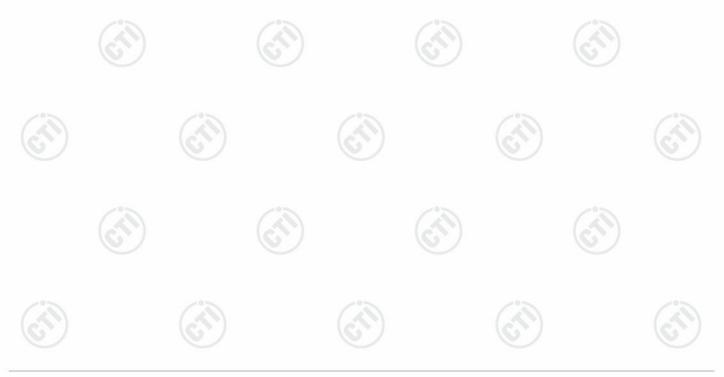




Mode:	GFSK Transmitting	Channel:	2402
Remark:		G	G



Suspec	cted List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	Decult	Delerity	Domork
NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.04	45.81	74.00	28.19	PASS	Vertical	PK
2	2390.0000	5.77	28.69	34.46	54.00	19.54	PASS	Vertical	AV
7						0	2		



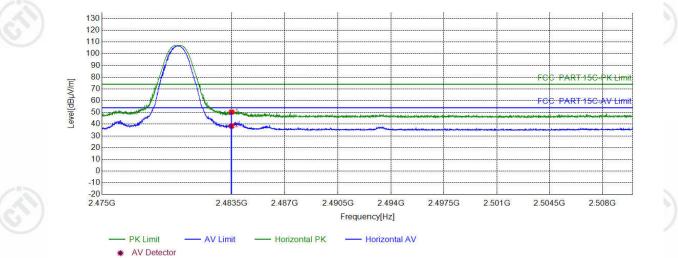




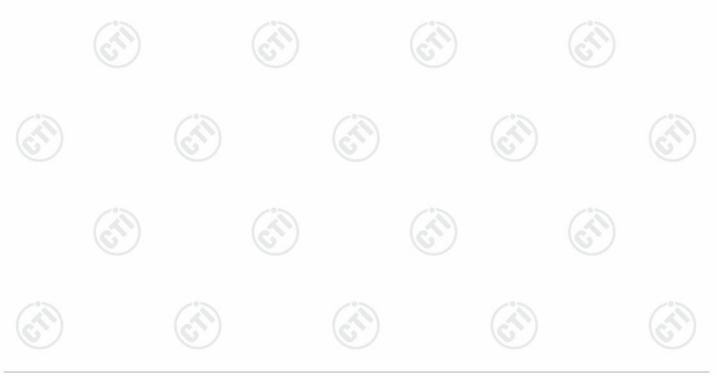


Mode:	GFSK Transmitting	Channel:	2480
Remark:	(CT)	6	(C)





	cted List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
1	2483.5000	6.57	43.74	50.31	74.00	23.69	PASS	Horizontal	PK
2	2483.5000	6.57	31.78	38.35	54.00	15.65	PASS	Horizontal	AV



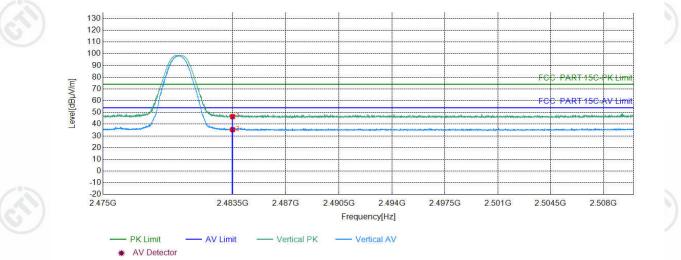






Mode:	GFSK Transmitting	Channel:	2480
Remark:	G	(6)	6)





	Suspected List									
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Result	Polarity	Remark
	NO	[MHz]	[dB]	[dBµV]	[dBµV/m]	[dBµV/m]	[dB]			
10	1	2483.5000	6.57	39.86	46.43	74.00	27.57	PASS	Vertical	PK
	2	2483.5000	6.57	28.79	35.36	54.00	18.64	PASS	Vertical	AV
9)						0	> /		

