FCC TEST REPORT

FCC ID: 2BGP6-XM183B96US

Report No.	:	SSP24120006-1E
Applicant	:	Shenzhen Lanbaosi Technology Co.,ltd
Product Name	:	Bathroom mirror
Model Name	:	XM183-B172-US
Test Standard	:	FCC Part 15.247
Date of Issue	:	2024-12-31

Shenzhen CCUT Quality Technology Co., Ltd.
1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

Test Report Basic Information

Applicant.....:	Shenzhen Lanbaosi Technology Co.,ltd
Address of Applicant.....:	Room 301, Building 14, Shen'ao Cultural Industrial Park, Bantian Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer.....:	Shenzhen Lanbaosi Technology Co.,ltd
Address of Manufacturer.....:	Room 301, Building 14, Shen'ao Cultural Industrial Park, Bantian Street, Longgang District, Shenzhen, Guangdong, China
Product Name.....:	Bathroom mirror
Brand Name.....:	LUVODI
Main Model.....:	XM183-B172-US
Series Models.....:	See section 1.1 (Page 5)
Test Standard.....:	FCC Part 15 Subpart C ANSI C63.4-2014 ANSI C63.10-2013
Date of Test .....:	2024-12-05 to 2024-12-11
Test Result.....:	PASS

Tested By .....:	Walker Wu	(Walker Wu)
Reviewed By.....:	Lieber Ouyang	(Lieber Ouyang)
Authorized Signatory.....:	Lahm Peng	(Lahm Peng)

Shenzhen CCUT Quality Technology Co., Ltd. APPROVED

Note : This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

CONTENTS

Revision History

Revision	Issue Date	Description	Revised By
V1.0	2024-12-31	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Bathroom mirror
Trade Name:	LUVODI
Main Model:	XM183-B172-US
Series Models:	XM183-B170-US, XM183-B171-US, XM183-B173-US, XM183-B177-US, XM183-B178-US, XM183-B179-US, XM183-B181-US, XM183-B182-US, XM183-B183-US, XM183-B180-US, XM183-B186-US, XM183-B187-US, XM183-B188-US, XM183-B190-US, XM183-B192-US, XM183-B193-US, XM183-B196-US, XM183-B197-US
Rated Voltage:	DC 12V
Power Adapter:	Input: AC 100-240V/50-60Hz, Output: DC 12V
Battery:	-
Test Sample No:	SSP24120006-1
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer. Note 2: Models XM183-B170-US, XM183-B171-US, XM183-B173-US, XM183-B176-US, XM183-B177-US, XM183-B178-US, XM183-B179-US, XM183-B181-US, XM183-B182-US are different from the main model in terms of appearance shape, size, number of lamp strips and model name, but the main board circuit and electronic structure are the same. The appearance color and model name of other models are different from the main model, but the circuit and electronic structure are the same. Declaration by the manufacturer.	

Wireless Specification	
Wireless Standard:	Bluetooth BR/EDR
Operating Frequency:	2402MHz ~ 2480MHz
RF Output Power:	-2.57dBm
Number of Channel:	79
Channel Separation:	1MHz
Modulation:	GFSK, Pi/4 DQPSK
Antenna Gain:	0dBi
Type of Antenna:	PCB Antenna
Type of Device:	☐ Portable Device ☒ Mobile Device ☐ Modular Device

1.2 Test Setup Information

List of Test Modes		
Test Mode	Description	Remark
TM1	Lowest Channel	2402MHz(DH5/2DH5)
TM2	Middle Channel	2441MHz(DH5/2DH5)
TM3	Highest Channel	2480MHz(DH5/2DH5)
TM4	Hopping	2402MHz~2480MHz
TM5	Playing with charging	Bluetooth playing

List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-
-	-	-	-

List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
-	-	-	-
-	-	-	-

List of Channels							
No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)	No. of Channel	Frequency (MHz)
01	2402	21	2422	41	2442	61	2462
02	2403	22	2423	42	2443	62	2463
03	2404	23	2424	43	2444	63	2464
04	2405	24	2425	44	2445	64	2465
05	2406	25	2426	45	2446	65	2466
~	~	~	~	~	~	~	~
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461		

1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

1.4 Test Facilities

Laboratory Name:	**Shenzhen CCUT Quality Technology Co., Ltd.** 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6893.01
FCC Registration No:	583813
ISED Registration No.:	CN0164
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.	

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted Emissions					
AMN	ROHDE&SCHWARZ	ENV216	101097	2024-08-07	2025-08-06
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2024-08-07	2025-08-06
Test Cable	N/A	Cable 5	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
Radiated Emissions					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2024-08-07	2025-08-06
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2024-08-07	2025-08-06
Amplifier	SCHWARZBECK	BBV 9743B	00251	2024-08-07	2025-08-06
Amplifier	HUABO	YXL0518-2.5-45	--	2024-08-07	2025-08-06
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2024-08-07	2025-08-06
Loop Antenna	DAZE	ZN30900C	21104	2024-08-03	2025-08-02
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2024-08-03	2025-08-02
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2024-08-03	2025-08-02
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2024-08-03	2025-08-02
Attenuator	QUANJUDA	6dB	220731	2024-08-07	2025-08-06
Test Cable	N/A	Cable 1	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 2	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 3	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 4	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 8	N/A	2024-08-07	2025-08-06
Test Cable	N/A	Cable 9	N/A	2024-08-07	2025-08-06
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A
Conducted RF Testing					
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2024-08-07	2025-08-06
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2024-08-07	2025-08-06
RF Test Software	MWRFTest	MTS 8310	N/A	N/A	N/A
Laptop	Lenovo	ThlnkPad E15 Gen 3	SPPOZ22485	N/A	N/A
DUT Test Software	ToolKit	BK32xx RF Test_V1.8.2	N/A	N/A	N/A

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
Radiated Emissions	9kHz ~ 30MHz	±2.88 dB
	30MHz ~ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Conducted Output Power	9kHz ~ 26GHz	±0.50 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %
Conducted Spurious Emission	9kHz ~ 26GHz	±1.32 dB

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209, 15.247(d)	Radiated Emissions	Passed
Passed: The EUT complies with the essential requirements in the standard Failed: The EUT does not comply with the essential requirements in the standard N/A: Not applicable		

3. Antenna Requirement

3.1 Standard and Limit

According to FCC Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an PCB antenna, fulfill the requirement of this section.

4. Conducted Emissions

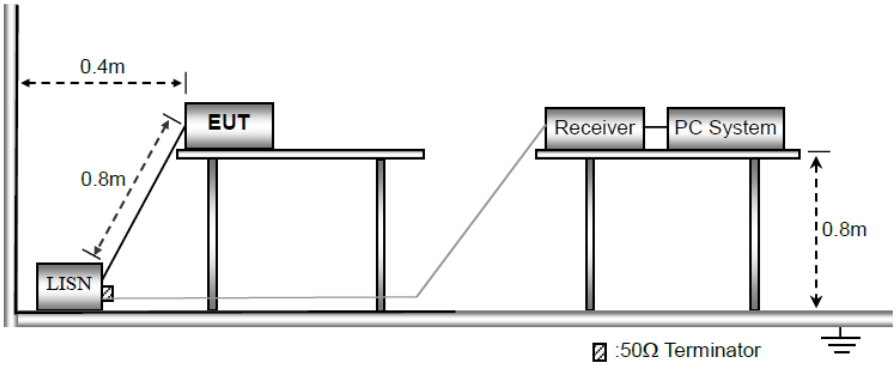
4.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission (MHz)	Conducted emissions (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz Note 2: The lower limit applies at the band edges		

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following is the setting of the receiver
Attenuation: 10dB
Start Frequency: 0.15MHz
Stop Frequency: 30MHz
IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

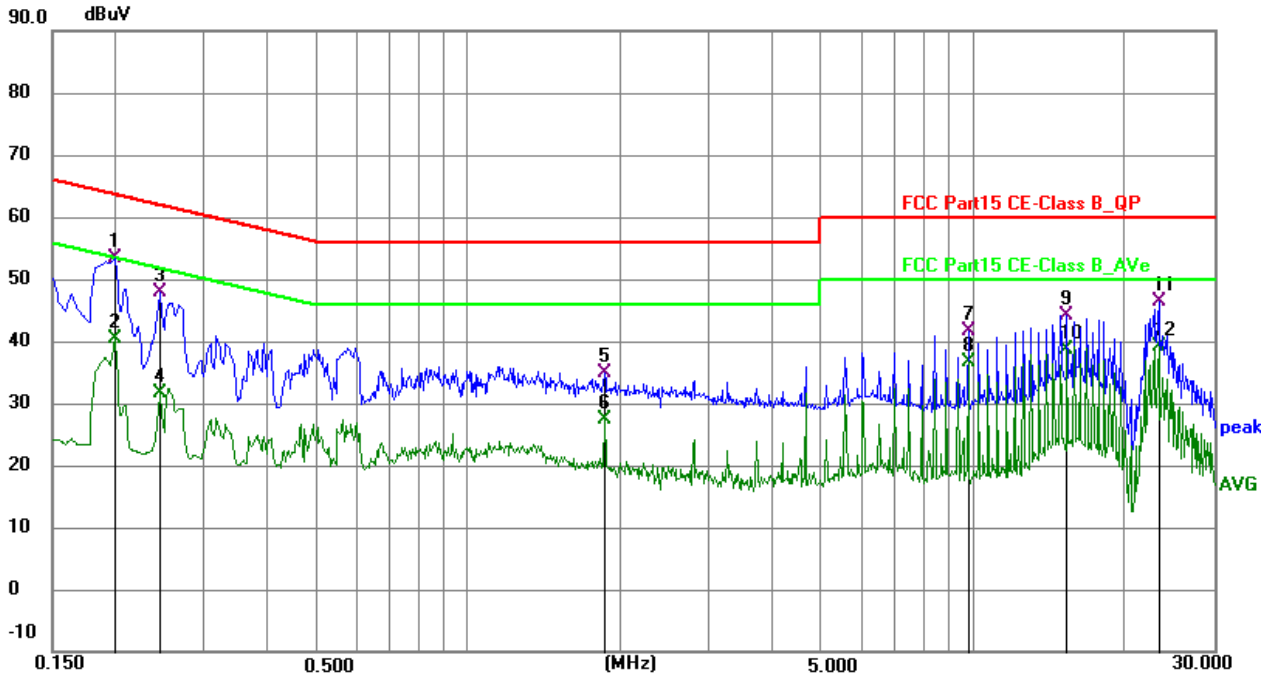
f) LISN is at least 80 cm from nearest part of EUT chassis.

g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

4.3 Test Data and Results

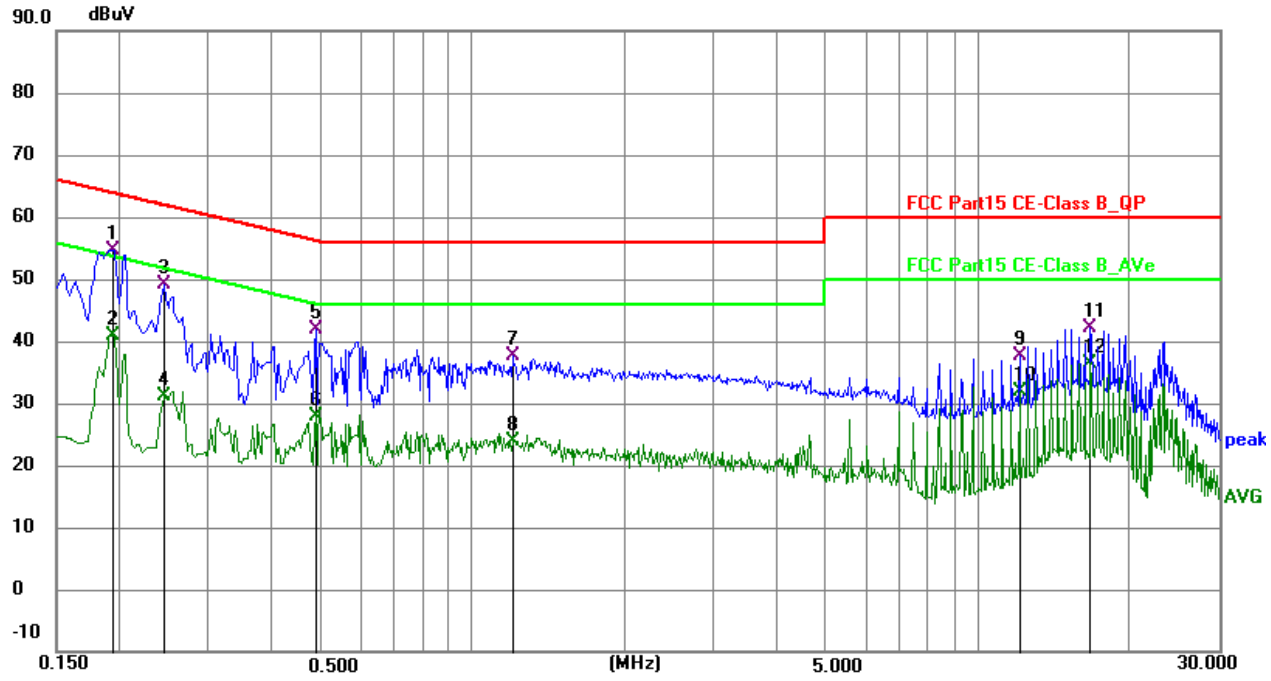
Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case as below:
Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Conducted Emissions	
Tested Model:	XM183-B172-US
Tested Mode:	TM5
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	Runway profile



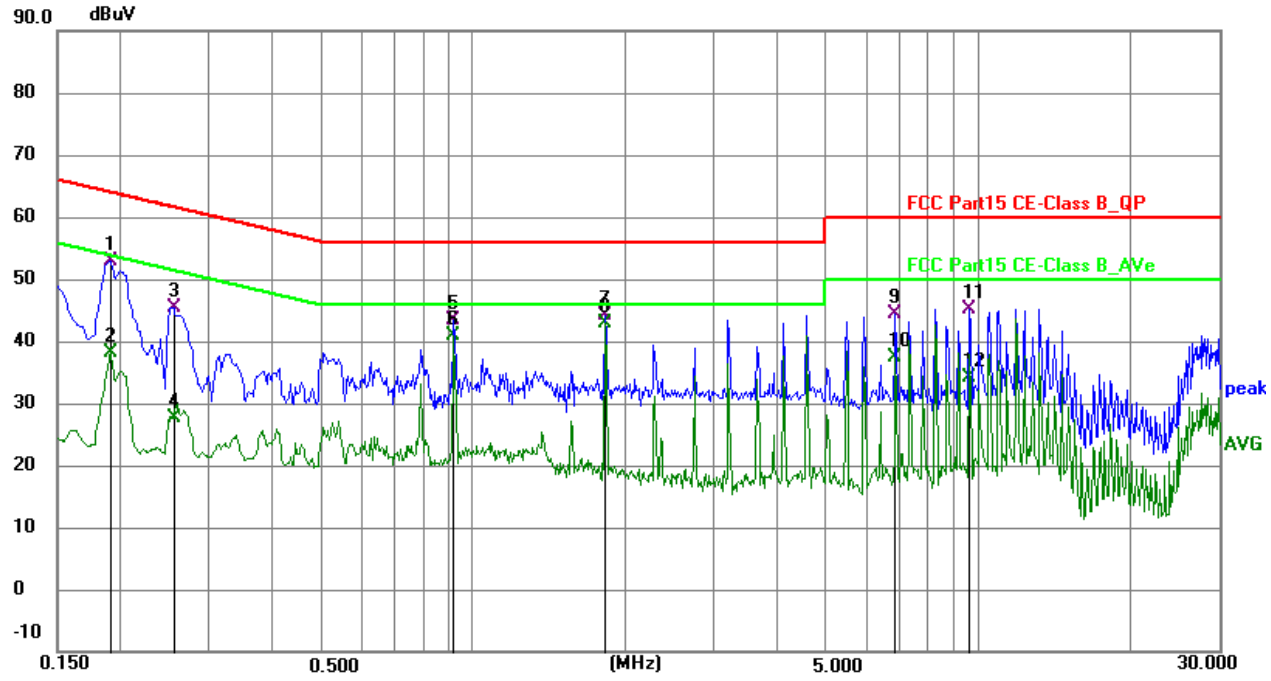
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1995	44.16	9.21	53.37	63.63	-10.26	QP	P	
2	0.1995	31.23	9.21	40.44	53.63	-13.19	AVG	P	
3	0.2445	38.54	9.29	47.83	61.94	-14.11	QP	P	
4	0.2445	22.31	9.29	31.60	51.94	-20.34	AVG	P	
5	1.8645	25.35	9.46	34.81	56.00	-21.19	QP	P	
6	1.8645	17.97	9.46	27.43	46.00	-18.57	AVG	P	
7	9.7800	32.18	9.56	41.74	60.00	-18.26	QP	P	
8	9.7800	27.17	9.56	36.73	50.00	-13.27	AVG	P	
9	15.3690	34.68	9.57	44.25	60.00	-15.75	QP	P	
10	15.3690	29.13	9.57	38.70	50.00	-11.30	AVG	P	
11	23.2845	36.26	10.03	46.29	60.00	-13.71	QP	P	
12	23.2845	29.05	10.03	39.08	50.00	-10.92	AVG	P	

Test Plots and Data of Conducted Emissions	
Tested Model:	XM183-B172-US
Tested Mode:	TM5
Test Voltage:	AC 120V/60Hz
Test Power Line:	Live
Remark:	Runway profile



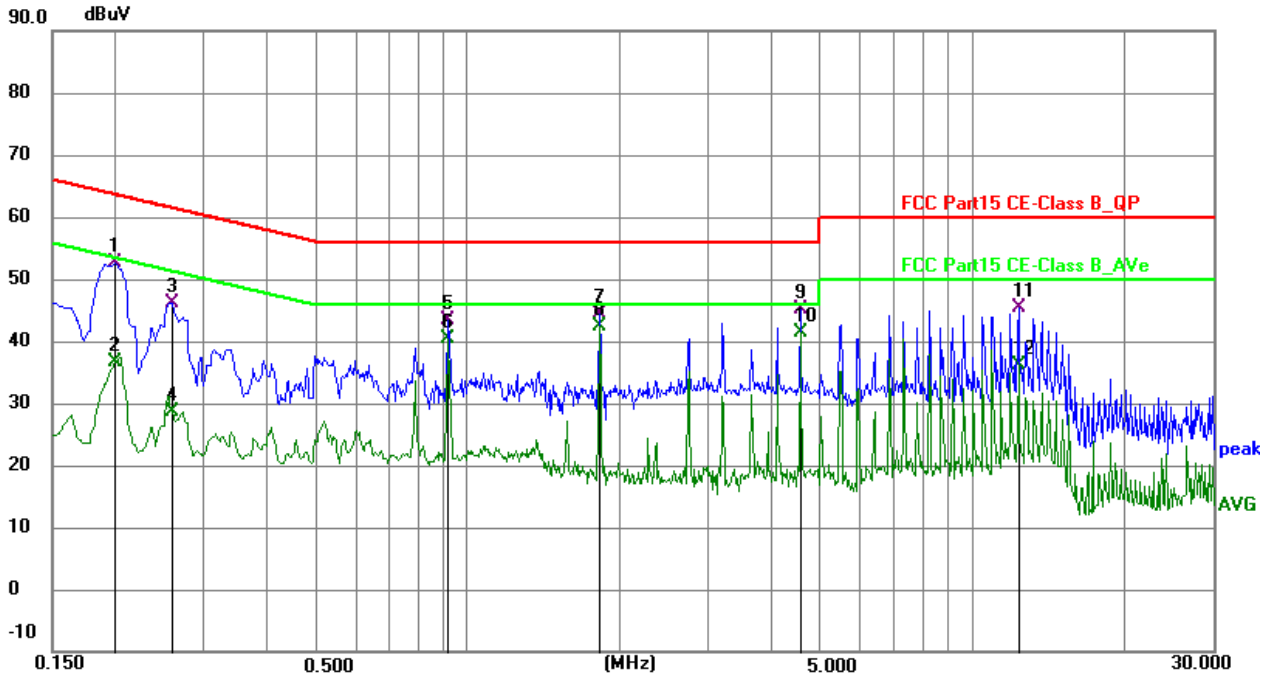
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1949	45.16	9.39	54.55	63.83	-9.28	QP	P	
2	0.1949	31.59	9.39	40.98	53.83	-12.85	AVG	P	
3	0.2445	39.69	9.48	49.17	61.94	-12.77	QP	P	
4	0.2445	21.57	9.48	31.05	51.94	-20.89	AVG	P	
5	0.4875	32.36	9.58	41.94	56.21	-14.27	QP	P	
6	0.4875	18.21	9.58	27.79	46.21	-18.42	AVG	P	
7	1.1985	28.09	9.62	37.71	56.00	-18.29	QP	P	
8	1.1985	14.30	9.62	23.92	46.00	-22.08	AVG	P	
9	12.0930	27.96	9.74	37.70	60.00	-22.30	QP	P	
10	12.0930	22.14	9.74	31.88	50.00	-18.12	AVG	P	
11	16.7460	32.36	9.83	42.19	60.00	-17.81	QP	P	
12	16.7460	26.61	9.83	36.44	50.00	-13.56	AVG	P	

Test Plots and Data of Conducted Emissions	
Tested Model:	XM183-B173-US
Tested Mode:	TM5
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	Door type



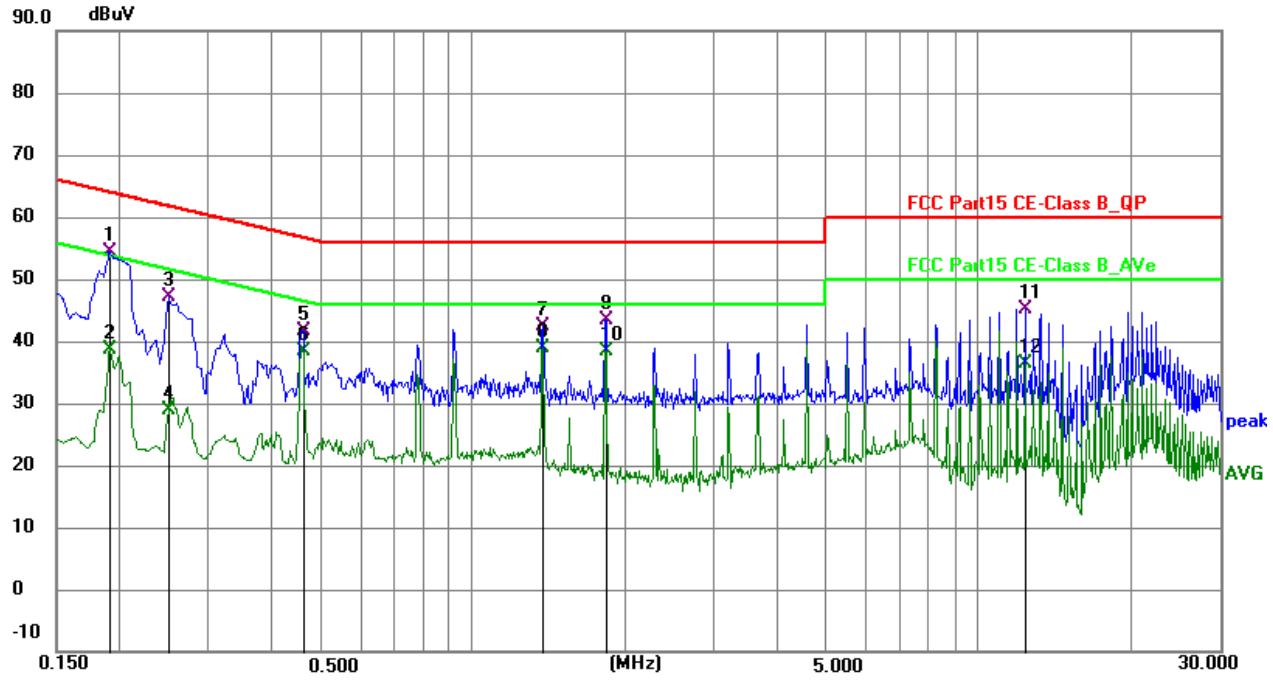
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1905	43.79	9.21	53.00	64.01	-11.01	QP	P	
2	0.1905	28.87	9.21	38.08	54.01	-15.93	AVG	P	
3	0.2535	36.01	9.31	45.32	61.64	-16.32	QP	P	
4	0.2535	18.23	9.31	27.54	51.64	-24.10	AVG	P	
5	0.9150	34.06	9.38	43.44	56.00	-12.56	QP	P	
6	0.9150	31.49	9.38	40.87	46.00	-5.13	AVG	P	
7	1.8285	34.71	9.46	44.17	56.00	-11.83	QP	P	
8 *	1.8285	33.36	9.46	42.82	46.00	-3.18	AVG	P	
9	6.8550	34.86	9.57	44.43	60.00	-15.57	QP	P	
10	6.8550	27.92	9.57	37.49	50.00	-12.51	AVG	P	
11	9.6045	35.55	9.57	45.12	60.00	-14.88	QP	P	
12	9.6045	24.59	9.57	34.16	50.00	-15.84	AVG	P	

Test Plots and Data of Conducted Emissions	
Tested Model:	XM183-B173-US
Tested Mode:	TM5
Test Voltage:	AC 120V/60Hz
Test Power Line:	Live
Remark:	Door type



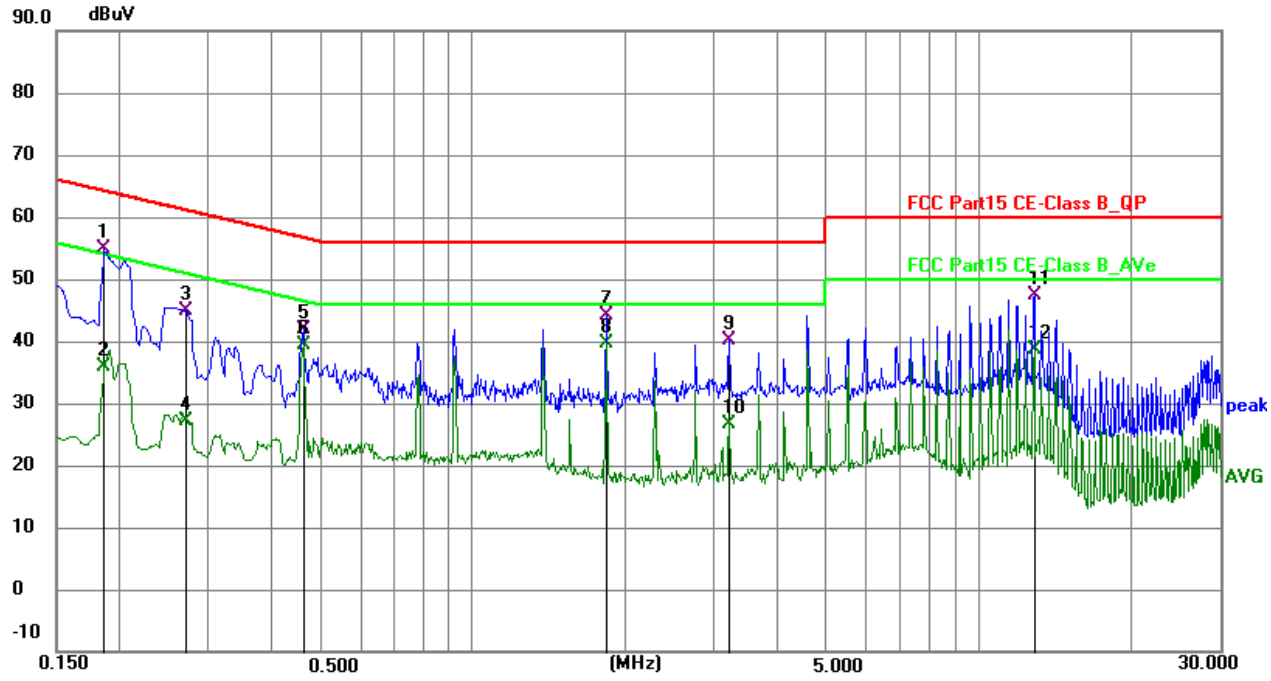
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1995	43.16	9.39	52.55	63.63	-11.08	QP	P	
2	0.1995	27.16	9.39	36.55	53.63	-17.08	AVG	P	
3	0.2580	36.54	9.51	46.05	61.50	-15.45	QP	P	
4	0.2580	19.07	9.51	28.58	51.50	-22.92	AVG	P	
5	0.9150	33.79	9.57	43.36	56.00	-12.64	QP	P	
6	0.9150	30.87	9.57	40.44	46.00	-5.56	AVG	P	
7	1.8240	34.70	9.65	44.35	56.00	-11.65	QP	P	
8 *	1.8240	32.75	9.65	42.40	46.00	-3.60	AVG	P	
9	4.5600	35.32	9.75	45.07	56.00	-10.93	QP	P	
10	4.5600	31.51	9.75	41.26	46.00	-4.74	AVG	P	
11	12.3315	35.54	9.74	45.28	60.00	-14.72	QP	P	
12	12.3315	26.48	9.74	36.22	50.00	-13.78	AVG	P	

Test Plots and Data of Conducted Emissions	
Tested Model:	XM183-B182-US
Tested Mode:	TM5
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	Square



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1905	45.24	9.21	54.45	64.01	-9.56	QP	P	
2	0.1905	29.47	9.21	38.68	54.01	-15.33	AVG	P	
3	0.2490	37.90	9.30	47.20	61.79	-14.59	QP	P	
4	0.2490	19.58	9.30	28.88	51.79	-22.91	AVG	P	
5	0.4605	32.30	9.39	41.69	56.68	-14.99	QP	P	
6	0.4605	28.89	9.39	38.28	46.68	-8.40	AVG	P	
7	1.3740	32.97	9.44	42.41	56.00	-13.59	QP	P	
8 *	1.3740	29.34	9.44	38.78	46.00	-7.22	AVG	P	
9	1.8375	33.95	9.46	43.41	56.00	-12.59	QP	P	
10	1.8375	28.88	9.46	38.34	46.00	-7.66	AVG	P	
11	12.3585	35.63	9.54	45.17	60.00	-14.83	QP	P	
12	12.3585	26.90	9.54	36.44	50.00	-13.56	AVG	P	

Test Plots and Data of Conducted Emissions	
Tested Model:	XM183-B182-US
Tested Mode:	TM5
Test Voltage:	AC 120V/60Hz
Test Power Line:	Live
Remark:	Square



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1860	45.40	9.40	54.80	64.21	-9.41	QP	P	
2	0.1860	26.46	9.40	35.86	54.21	-18.35	AVG	P	
3	0.2714	35.35	9.53	44.88	61.07	-16.19	QP	P	
4	0.2714	17.50	9.53	27.03	51.07	-24.04	AVG	P	
5	0.4605	32.36	9.58	41.94	56.68	-14.74	QP	P	
6	0.4605	29.76	9.58	39.34	46.68	-7.34	AVG	P	
7	1.8375	34.40	9.65	44.05	56.00	-11.95	QP	P	
8 *	1.8375	29.87	9.65	39.52	46.00	-6.48	AVG	P	
9	3.2100	30.41	9.70	40.11	56.00	-15.89	QP	P	
10	3.2100	16.92	9.70	26.62	46.00	-19.38	AVG	P	
11	12.8535	37.59	9.74	47.33	60.00	-12.67	QP	P	
12	12.8535	28.94	9.74	38.68	50.00	-11.32	AVG	P	

5. Radiated Emissions

5.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

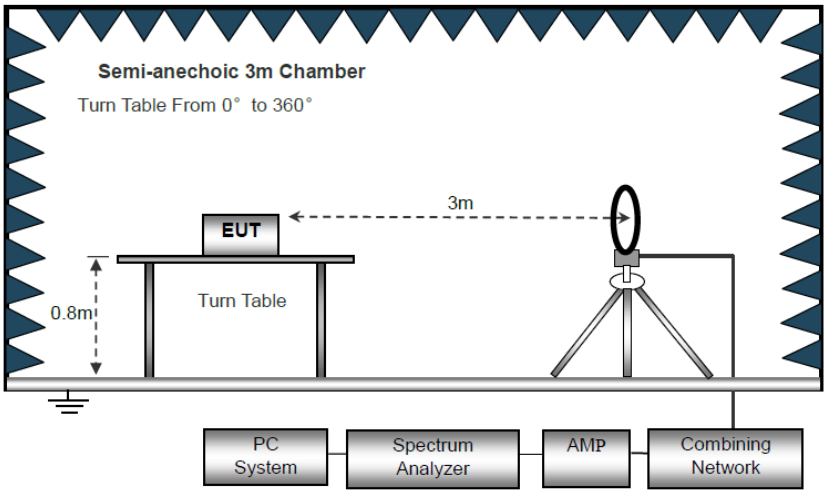
Frequency of emission (MHz)	Radiated emissions (3m)
	Quasi-peak (dBuV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54
Note: The more stringent limit applies at transition frequencies.	

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

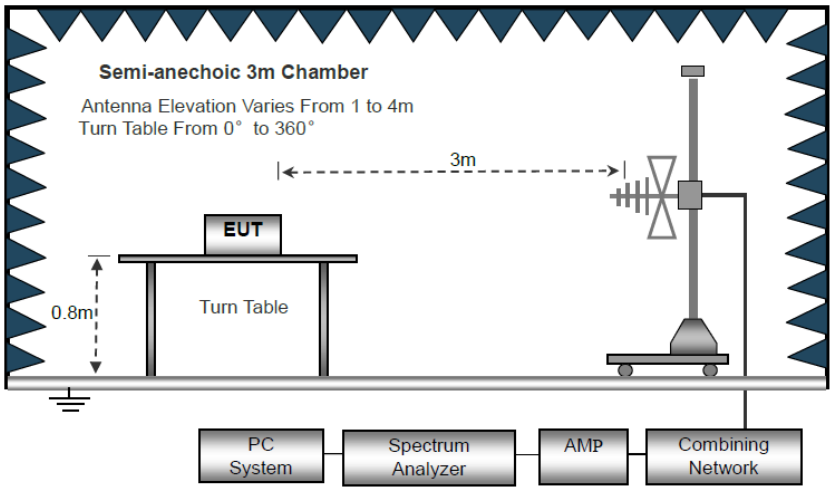
Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

5.2 Test Procedure

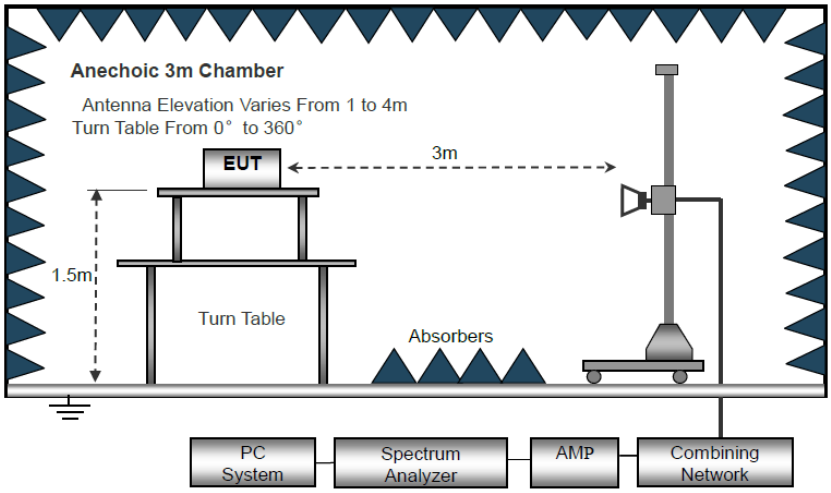
Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range blew 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

c) Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz
VBW ≥ RBW, Sweep = auto
Detector function = peak
Trace = max hold

d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

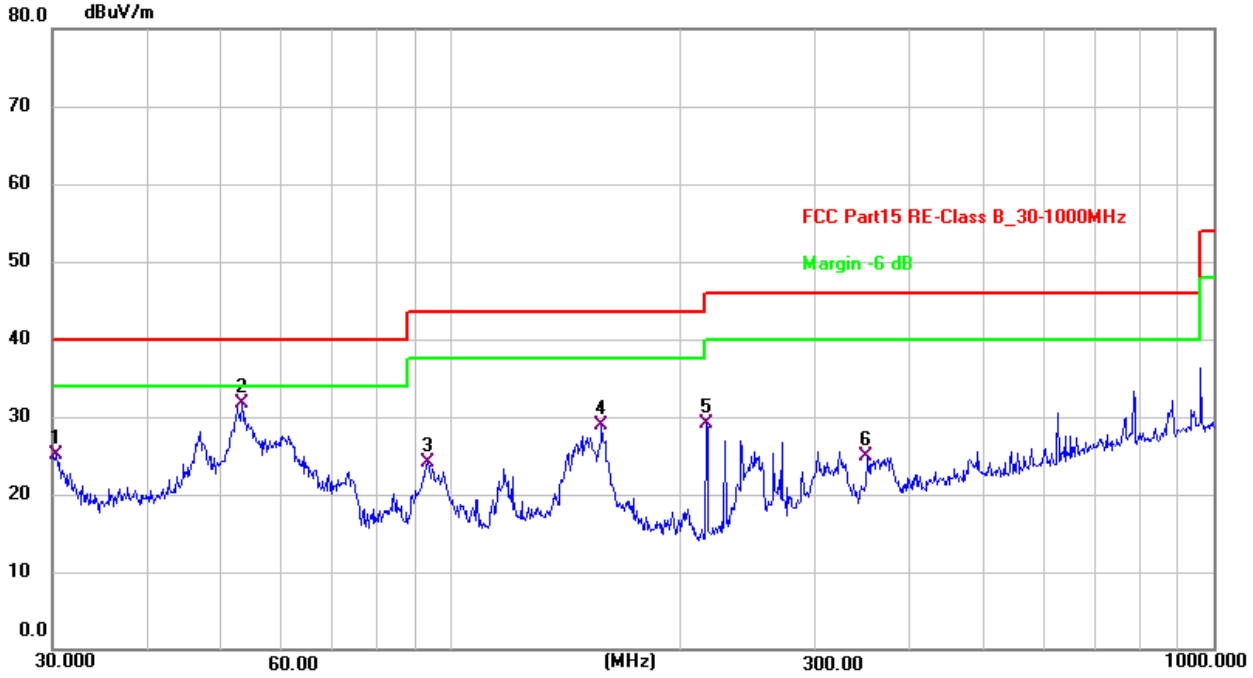
f) For the actual test configuration, please refer to the related item - EUT test photos.

5.3 Test Data and Results

All of the GFSK and π/4 DQPSK modes have been tested, the EUT complied with the FCC Part 15.247 standard limit for a wireless device, and with the worst case GFSK_2402MHz as below:

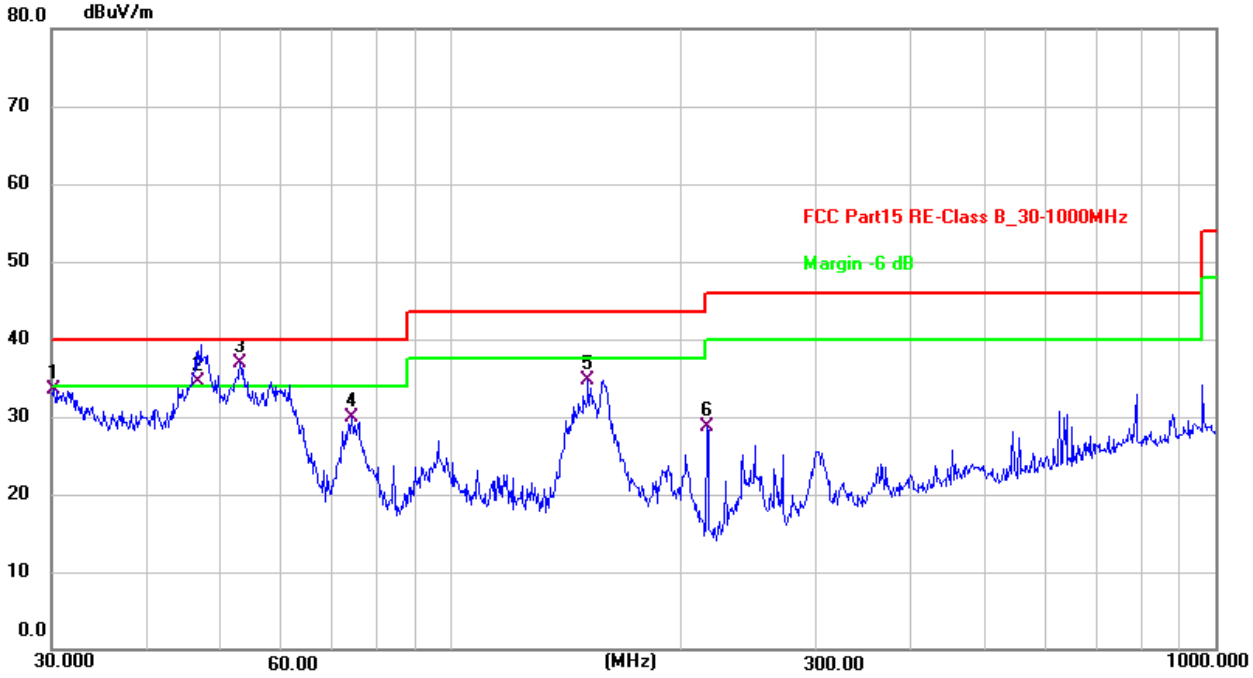
Remark: Level = Reading + Factor, Margin = Level - Limit

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Model:	XM183-B172-US
Tested Mode:	TM1
Test Antenna Polarization:	Horizontal
Remark:	Runway profile



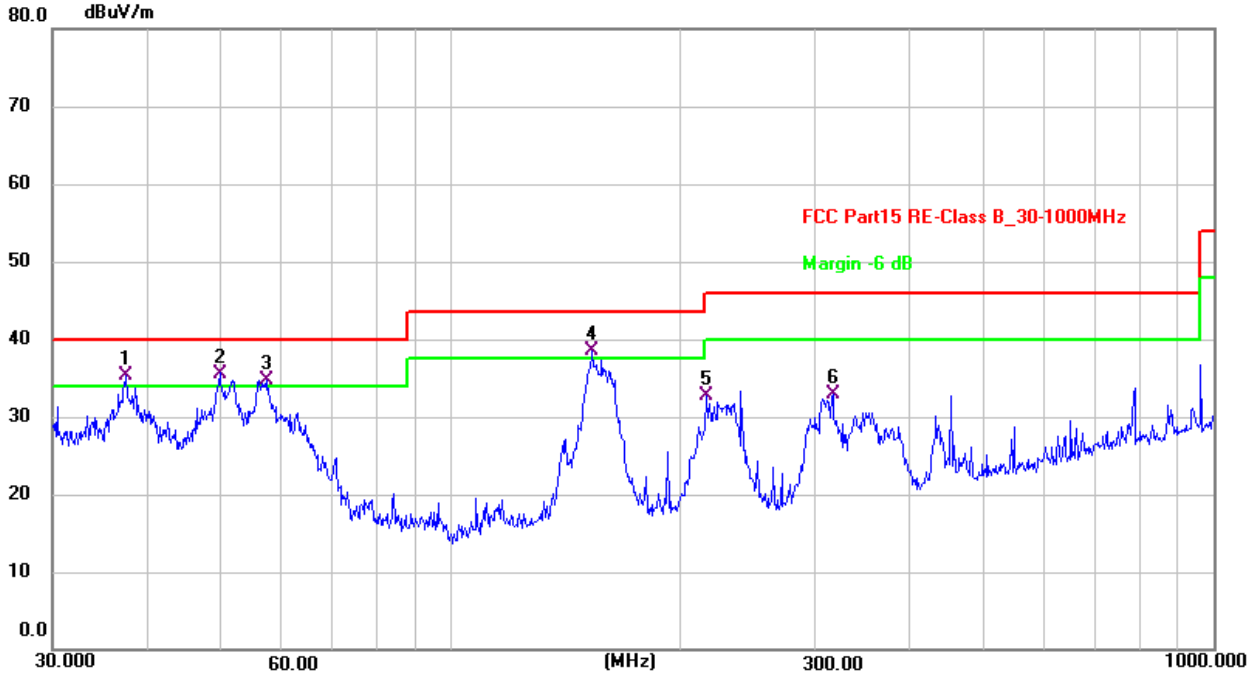
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.3173	34.06	-8.91	25.15	40.00	-14.85	QP	100	266	P	
2 *	53.1313	40.63	-8.90	31.73	40.00	-8.27	QP	100	347	P	
3	93.1132	37.01	-12.81	24.20	43.50	-19.30	QP	100	159	P	
4	157.5588	36.65	-7.84	28.81	43.50	-14.69	QP	100	45	P	
5	216.0240	40.98	-11.85	29.13	46.00	-16.87	QP	100	108	P	
6	351.7079	32.18	-7.34	24.84	46.00	-21.16	QP	100	102	P	

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Model:	XM183-B172-US
Tested Mode:	TM1
Test Antenna Polarization:	Vertical
Remark:	Runway profile



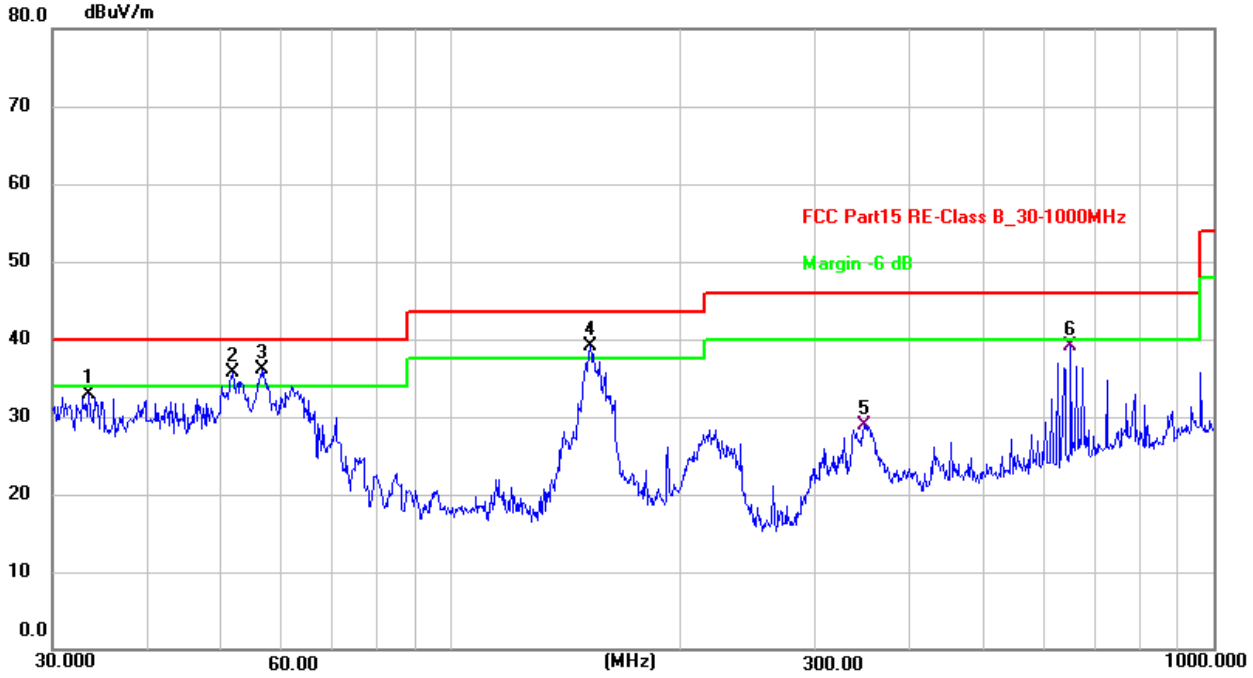
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.2111	42.34	-8.90	33.44	40.00	-6.56	QP	100	40	P	
2 !	46.7948	42.80	-8.31	34.49	40.00	-5.51	QP	100	21	P	
3 *	52.9453	45.86	-8.87	36.99	40.00	-3.01	QP	100	122	P	
4	74.1351	42.09	-12.19	29.90	40.00	-10.10	QP	100	265	P	
5	151.0666	42.53	-7.73	34.80	43.50	-8.70	QP	100	296	P	
6	216.0240	40.47	-11.85	28.62	46.00	-17.38	QP	100	122	P	

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Model:	XM183-B173-US
Tested Mode:	TM1
Test Antenna Polarization:	Horizontal
Remark:	Door type



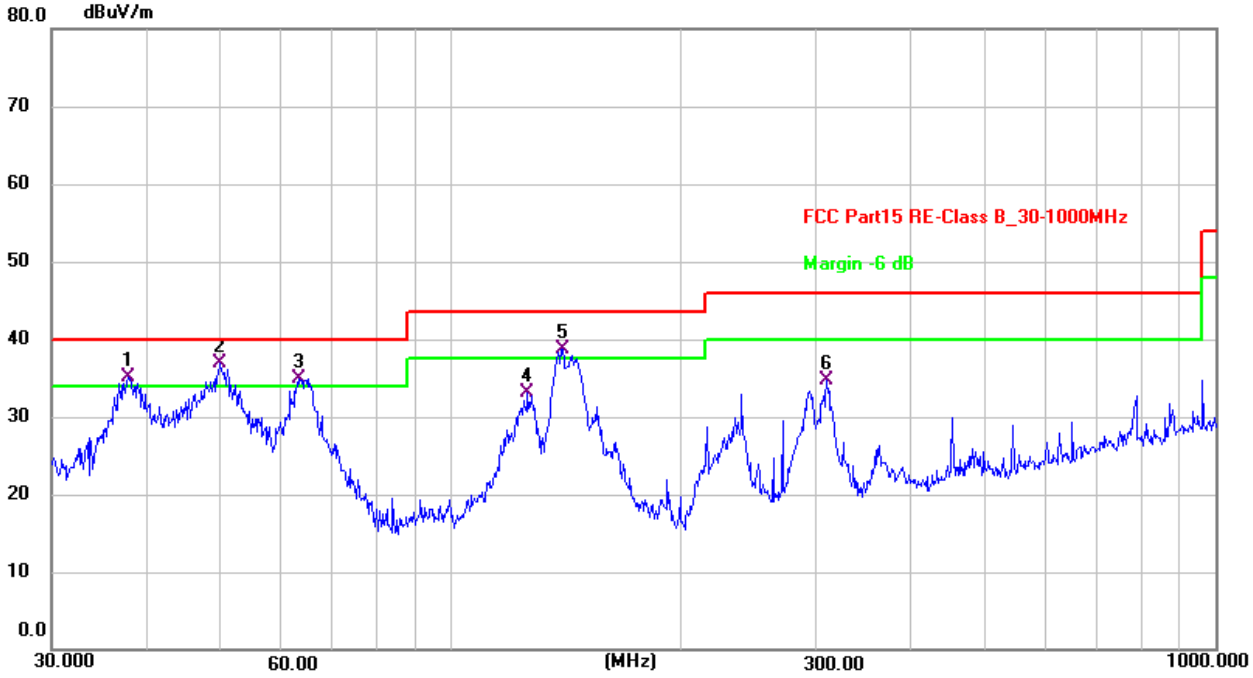
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 !	37.4164	43.95	-8.72	35.23	40.00	-4.77	QP	100	359	P	
2 *	49.7066	43.99	-8.39	35.60	40.00	-4.40	QP	100	200	P	
3 !	57.3923	44.25	-9.53	34.72	40.00	-5.28	QP	100	287	P	
4 !	153.2004	46.25	-7.77	38.48	43.50	-5.02	QP	199	32	P	
5	216.0240	44.56	-11.85	32.71	46.00	-13.29	QP	100	51	P	
6	316.5890	40.24	-7.39	32.85	46.00	-13.15	QP	100	21	P	

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Model:	XM183-B173-US
Tested Mode:	TM1
Test Antenna Polarization:	Vertical
Remark:	Door type



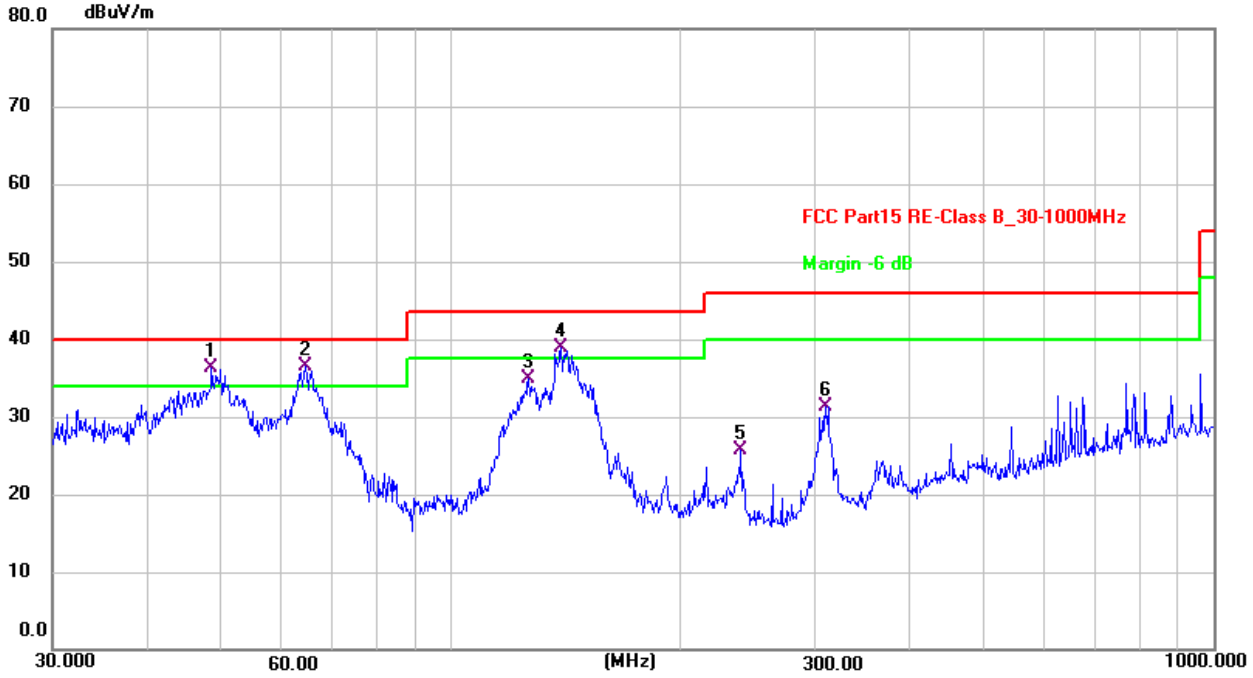
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	33.4450	42.02	-9.03	32.99	40.00	-7.01	QP	100	318	P	
2 !	51.6615	44.27	-8.65	35.62	40.00	-4.38	QP	100	308	P	
3 *	56.5930	45.59	-9.41	36.18	40.00	-3.82	QP	100	348	P	
4 !	152.1297	46.88	-7.75	39.13	43.50	-4.37	QP	100	318	P	
5	348.0274	36.38	-7.38	29.00	46.00	-17.00	QP	100	20	P	
6	649.6597	40.03	-0.85	39.18	46.00	-6.82	QP	100	348	P	

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Model:	XM183-B182-US
Tested Mode:	TM1
Test Antenna Polarization:	Horizontal
Remark:	Square



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 !	37.8121	43.72	-8.66	35.06	40.00	-4.94	QP	100	227	P	
2 *	49.8813	45.39	-8.40	36.99	40.00	-3.01	QP	100	360	P	
3 !	63.3132	45.41	-10.54	34.87	40.00	-5.13	QP	100	206	P	
4	125.8864	42.26	-9.22	33.04	43.50	-10.46	QP	100	155	P	
5 !	139.8508	46.86	-8.23	38.63	43.50	-4.87	QP	100	354	P	
6	309.9977	42.26	-7.65	34.61	46.00	-11.39	QP	100	319	P	

Radiated Emission Test Data (30MHz to 1GHz)	
Tested Model:	XM183-B182-US
Tested Mode:	TM1
Test Antenna Polarization:	Vertical
Remark:	Square



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 !	48.5015	44.59	-8.36	36.23	40.00	-3.77	QP	100	348	P	
2 *	64.4330	47.20	-10.74	36.46	40.00	-3.54	QP	100	71	P	
3	126.3285	44.07	-9.17	34.90	43.50	-8.60	QP	100	81	P	
4 !	139.3611	47.13	-8.26	38.87	43.50	-4.63	QP	100	286	P	
5	239.9874	36.23	-10.44	25.79	46.00	-20.21	QP	100	12	P	
6	309.9977	39.05	-7.65	31.40	46.00	-14.60	QP	100	297	P	

Radiated Emission Test Data (Above 1GHz)							
Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
MHz	dBuV/m	dB/m	dBuV/m	dBuV/m	dB	H/V	PK/AV
Lowest Channel (GFSK_2402MHz)							
4804	76.93	-14.72	62.21	74	-11.79	H	PK
4804	59.92	-14.72	45.2	54	-8.8	H	AV
7206	64.1	-8.41	55.69	74	-18.31	H	PK
7206	48.73	-8.41	40.32	54	-13.68	H	AV
4804	75.14	-14.72	60.42	74	-13.58	V	PK
4804	57.01	-14.72	42.29	54	-11.71	V	AV
7206	62.35	-8.41	53.94	74	-20.06	V	PK
7206	49.38	-8.41	40.97	54	-13.03	V	AV
Middle Channel (GFSK_2441MHz)							
4882	76.89	-14.64	62.25	74	-11.75	H	PK
4882	59.46	-14.64	44.82	54	-9.18	H	AV
7323	63.77	-8.28	55.49	74	-18.51	H	PK
7323	45.96	-8.28	37.68	54	-16.32	H	AV
4882	77.15	-14.64	62.51	74	-11.49	V	PK
4882	58.39	-14.64	43.75	54	-10.25	V	AV
7323	64.48	-8.28	56.2	74	-17.8	V	PK
7323	47.53	-8.28	39.25	54	-14.75	V	AV
Highest Channel (GFSK_2480MHz)							
4960	74.11	-14.53	59.58	74	-14.42	H	PK
4960	62.87	-14.53	48.34	54	-5.66	H	AV
7440	65.71	-8.13	57.58	74	-16.42	H	PK
7440	50.1	-8.13	41.97	54	-12.03	H	AV
4960	74.13	-14.53	59.6	74	-14.4	V	PK
4960	57.92	-14.53	43.39	54	-10.61	V	AV
7440	65.5	-8.13	57.37	74	-16.63	V	PK
7440	50.78	-8.13	42.65	54	-11.35	V	AV

Note 1: All models have been tested, and the above data only reflects the worst-case scenario of the main test model XM183-B172-US

Note 2: All of the GFSK, π/4 DQPSK modes have been tested. This EUT was tested in 3 orthogonal positions and the worst case position data of GFSK was reported.

Note 3: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 4: Other emissions are attenuated 20dB below the limits from 9kHz to 30MHz, so it does not recorded report, 18GHz-26GHz not recorded for no spurious point have a margin of less than 6 dB with respect to the limits.

******* END OF REPORT *******