

TEST REPORT

Applicant : Zhongshan Mingzhi Lighting Co.,LTD

Address : Tongmaowei, Tongmao Community, Xiaolan Town, Zhongshan City, Guangdong Province, China

Manufacturer : Zhongshan Mingzhi Lighting Co.,LTD

Address : Tongmaowei, Tongmao Community, Xiaolan Town, Zhongshan City, Guangdong Province, China

Product Name : Motion sensor ceiling light

Model Number : MZ-L5301

Trademark : N/A

FCC ID : 2BT22-MZ-L5301

Test Date : Jan. 06, 2026 - Jan. 21, 2026

Date of Report : Jan. 21, 2026

Test Result : This device described above has been tested by BKC, and the test results show that the equipment under test (EUT) is in compliance with the Standard requirements. And it is applicable only to the tested sample identified in the report.

Test Procedure Used:

Standards : FCC CFR Title 47 Part 15 Subpart C Section 15.249
ANSI C63.10:2020

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Jerry Liao



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Revision History of This Test Report

[illegible]

1. General Information

1.1. Description of Device (EUT)

EUT Name : Motion sensor ceiling light
Model No. : MZ-L5301
Model Difference : N/A
Power supply : Rating(s): 5V=== 2A
Battery: 3.7V=== 10000mAh
Operation frequency : 5743MHz
Max. RF output power: : 101.84 dBuV/m
Modulation : FSK
Antenna Type : PCB antenna, Maximum Gain is 3.95dBi
Hardware Version : V1.0
Software Version : V1.4
Intend use environment : Residential, commercial and light industrial environment

1.2. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	5743MHz	-	-	-	-

1.3.Summary of test result

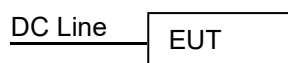
RF PART		
Test Items	Test Requirement	Result
Antenna requirement	FCC part 15.203	PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
Field strength of the fundamental signal	FCC part 15.249 (a)	PASS
Spurious emissions	FCC part 15.249 (a) (d)/15.209	PASS
Band edge	FCC part 15.249 (d)/15.205	PASS
20dB Occupied Bandwidth	FCC part 15.215 (c)	PASS
Remark: N/A is an abbreviation for Not Applicable. Measurement Uncertainty is not taken into account for conformity statement		

1.4.Special Accessories and Auxiliary Equipment

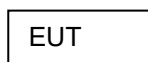
Description	Manufacturer	Model No.	Hardware Version	Software Version
ADAPTER	VOOC	VC54HBCH	-	-
Serial port board	-	USB-TTL-01	-	-

1.5.Block Diagram

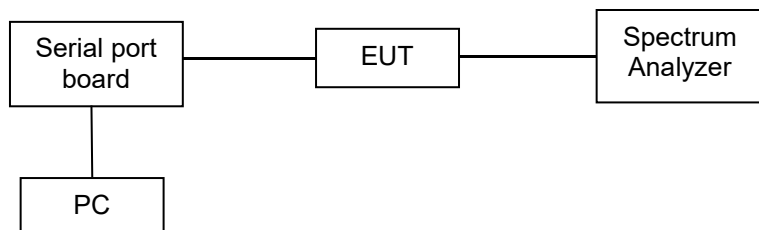
Conducted Emission



Radiated Emission



RF Conducted Test



1.6. Test mode

The special RF test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

Test mode	channel		
FSK	5743MHz		
Note: Only the worst data is shown.			

1.7. Test Conditions

Category	Normal Conditions	Extreme Conditions
Temperature range	15-35°C	N/A
Humidity range	20-75%	N/A
Pressure range	86-106kPa	N/A
Power supply	DC 3.7V	N/A
Note: N/A is an abbreviation for Not Applicable.		

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

Item	MU	Remark
Uncertainty for radio frequency	$\pm 7 \times 10^{-8}$	
Conducted Emissions (150kHz~30MHz)	$\pm 2.54\text{dB}$	
Radiated Emission(9KHz~30MHz)	$\pm 1.6\text{ dB}$	
Radiated Emission(30MHz~1GHz)	Vertical: $\pm 4.14\text{dB}$ Horizontal: $\pm 4.25\text{dB}$	
Radiated Emission(1GHz~6GHz)	$\pm 3.9\text{dB}$	
Radiated Emission(6GHz~18GHz)	$\pm 4.3\text{dB}$	
Radiated Emission(18GHz~40GHz)	$\pm 3.38\text{dB}$	
Uncertainty for conducted RF Power	$\pm 0.20\text{dB}$	
Conducted spurious emissions	$\pm 0.24\text{dB}$	
Uncertainty for temperature	0.6°C	
Uncertainty for humidity	1%	
Bandwidth	$\pm 1.5 \times 10^{-6}$	
Time	$\pm 2\%$	
Duty Cycle	$\pm 2\%$	
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%		

1.9. Test Facility

Site Description		
Name of Firm	:	Shenzhen BKC Testing Co., Ltd.
Site Location	:	Room 103, 1/F, Huaya Building, Huaya Industrial Park, Longhua Community, Longhua District, Shenzhen, Guangdong, China.
ISED CAB identifier	:	CN0188
ISED Company Number	:	34333
FCC Designation Number	:	CN1416
FCC Test Firm Registration Number	:	701543

1.10. Test Equipment

Conducted Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	102762	Mar. 10. 2025	Mar. 09. 2026
2	EMI Test Receiver	R&S	ESCI	101424	Mar. 10. 2025	Mar. 09. 2026
3	Rf cables	HTEC	HCE 2M-CE	N/A	Mar. 10. 2025	Mar. 09. 2026
4	Coupling/ Decoupling Network	Diamond	CX210	N/A	Mar. 10. 2025	Mar. 09. 2026
5	CE Testing software	EZ	EZ-EMC	/	/	/

Radiated Test Site(Below 1G and Above 1G)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Antenna	Schwarzbeck	VULB 9168	01321	Mar. 20. 2025	Mar. 19. 2028
2	EMI Test Receiver	R&S	ESRP	101478	Mar. 10. 2025	Mar. 09. 2026
3	Preamplifier	HP	8447D	2727A05345	Mar. 10. 2025	Mar. 09. 2026
4	Double Ridged Broadband	SCHWARZBECK	BBHA 9120D	02621	Mar. 10. 2025	Mar. 19. 2028
5	Preamplifier	Schwarzbeck	BBV 9718D	00041	Mar. 10. 2025	Mar. 09. 2026
6	Rf cables	HUBER+SUHNER	8M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
7	Rf cables	HUBER+SUHNER	1.5M-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
8	Rf cables	HUBER+SUHNER	1.5M-AP-RE	N/A	Mar. 10. 2025	Mar. 09. 2026
9	Loop antenna	TESEQ	HLA6121	58357	Mar. 09. 2025	Mar. 10. 2026
10	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026

11	Double Ridged Broadband Horn Antenna	COM-POWER	AH-1840	10100009	Mar. 10. 2025	Mar. 09. 2026
12	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
13	RE Testing software	EZ	EZ-EMC	/	/	/

RF Test Site

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2025	Mar. 10. 2026
2	Vector source	Agilent	N5182A	MY47420223	Mar. 09. 2025	Mar. 10. 2026
3	All instrument	Rohde & Schwarz	CMW 500	101131	Mar. 09. 2025	Mar. 10. 2026
4	control unit	MW	MW100-RFCB	MW200411BK-34	Mar. 09. 2025	Mar. 10. 2026
5	RF Testing software	MW	MTS 8310	/	Mar. 09. 2025	/
6	Spectrum analyzer	R&S	FSP40	200061	Feb. 13. 2025	Feb. 12. 2026

DUT Test	Manufacturer	Model	version	Test power levels
Software	/	EMI_TEST_	V1.4	Maximum

Test software

Software name	RF Testing software
Software version	2.0.0.0
Software name	RE Testing software
Software version	EMEC-03A2 RE+
Software name	CE Testing software
Software version	EMEC-3A1+

2. Conducted emission at the mains terminals test

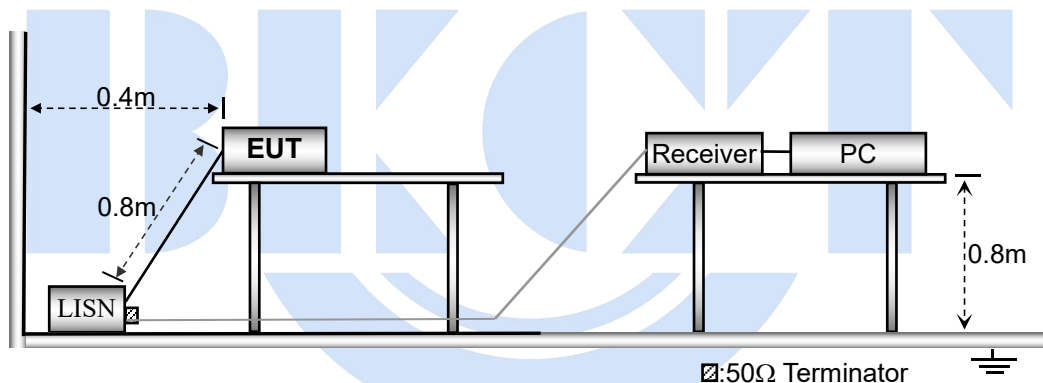
2.1.Limit

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2020
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.2.Test Setup

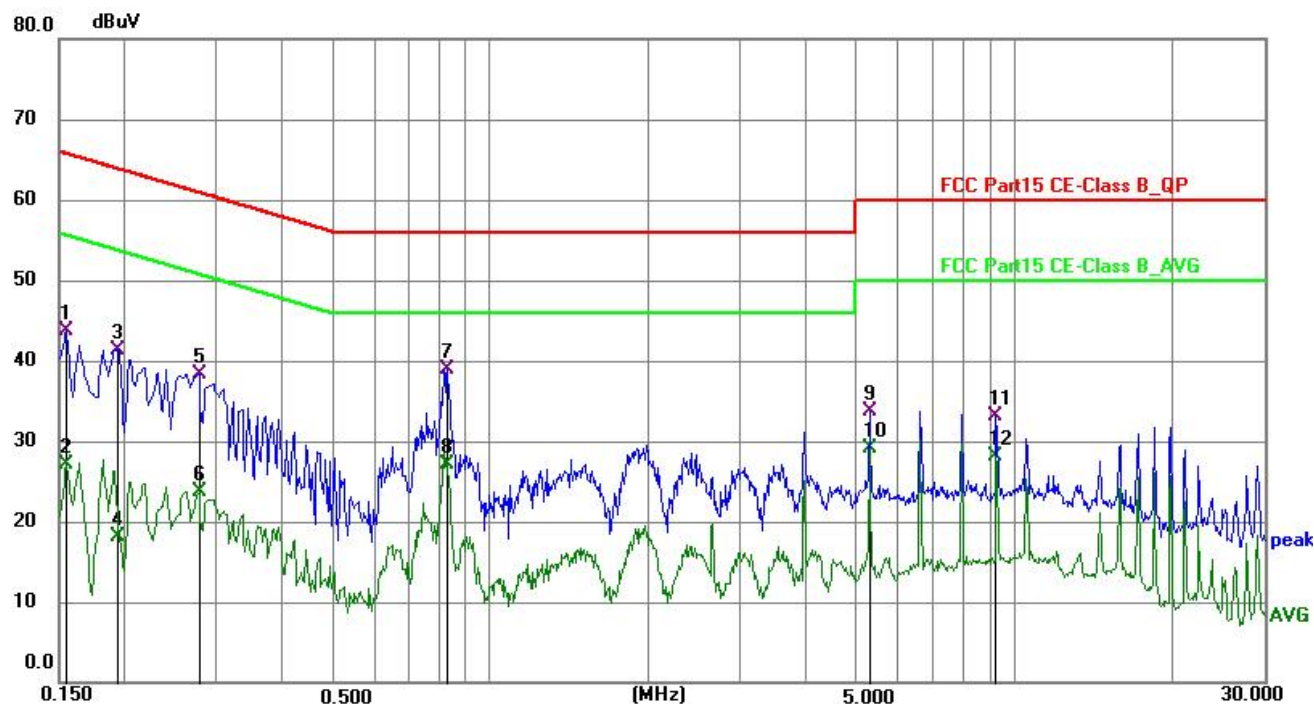


2.3.Test Procedure

1. The EUT was placed 0.1 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
2. 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.
3. 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.
4. LISN at least 80 cm from nearest part of EUT chassis.
5. For the actual test configuration, please refer to the related Item - EUT Test Photos.

2.4.Test Result

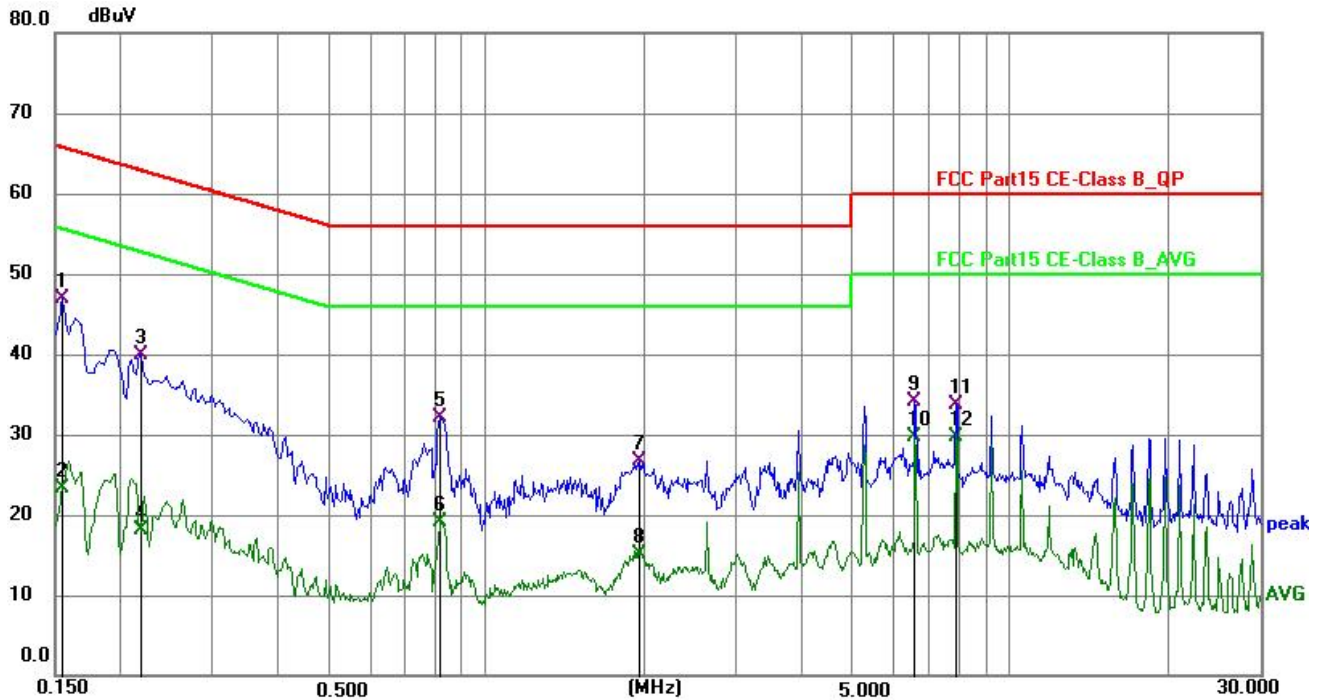
Conducted Emission At The Mains Terminals Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Line
Test Voltage :	AC 120V/60Hz	Test Mode:	Transmitting



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1544	33.91	9.76	43.67	65.76	-22.09	QP	P	
2	0.1544	17.31	9.76	27.07	55.76	-28.69	AVG	P	
3	0.1949	31.59	9.81	41.40	63.83	-22.43	QP	P	
4	0.1949	8.38	9.81	18.19	53.83	-35.64	AVG	P	
5	0.2760	28.47	9.79	38.26	60.94	-22.68	QP	P	
6	0.2760	13.86	9.79	23.65	50.94	-27.29	AVG	P	
7 *	0.8295	29.10	9.76	38.86	56.00	-17.14	QP	P	
8	0.8295	17.27	9.76	27.03	46.00	-18.97	AVG	P	
9	5.2845	23.88	9.80	33.68	60.00	-26.32	QP	P	
10	5.2845	19.29	9.80	29.09	50.00	-20.91	AVG	P	
11	9.2445	23.27	9.75	33.02	60.00	-26.98	QP	P	
12	9.2445	18.31	9.75	28.06	50.00	-21.94	AVG	P	

Conducted Emission At The Mains Terminals Test Data

Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Neutral
Test Voltage :	AC 120V/60Hz	Test Mode:	Transmitting



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1545	37.18	9.68	46.86	65.75	-18.89	QP	P	
2	0.1545	13.63	9.68	23.31	55.75	-32.44	AVG	P	
3	0.2175	30.21	9.71	39.92	62.91	-22.99	QP	P	
4	0.2175	8.39	9.71	18.10	52.91	-34.81	AVG	P	
5	0.8160	22.36	9.69	32.05	56.00	-23.95	QP	P	
6	0.8160	9.33	9.69	19.02	46.00	-26.98	AVG	P	
7	1.9635	17.06	9.69	26.75	56.00	-29.25	QP	P	
8	1.9635	5.38	9.69	15.07	46.00	-30.93	AVG	P	
9	6.5895	24.36	9.72	34.08	60.00	-25.92	QP	P	
10	6.5895	19.91	9.72	29.63	50.00	-20.37	AVG	P	
11	7.8900	24.09	9.71	33.80	60.00	-26.20	QP	P	
12	7.8900	19.93	9.71	29.64	50.00	-20.36	AVG	P	

3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.249

Test Result: PASS

Measurement Distance: 3m

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit 1:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log(2400/F(\text{kHz})) + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log(24000/F(\text{kHz})) + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log(30) + 40$
30 ~ 88	100	3	100	$20\log(100)$
88 ~ 216	150	3	150	$20\log(150)$
216 ~ 960	200	3	200	$20\log(200)$
Above 960	500	3	500	$20\log(500)$

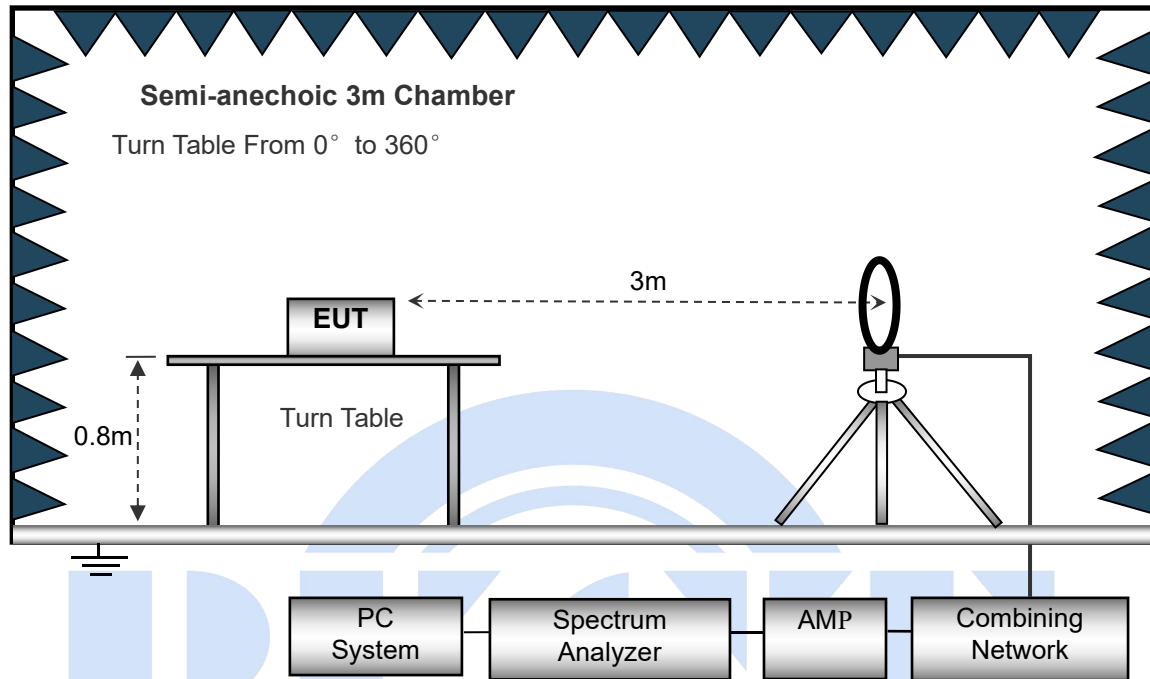
Limit 2:

§ 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

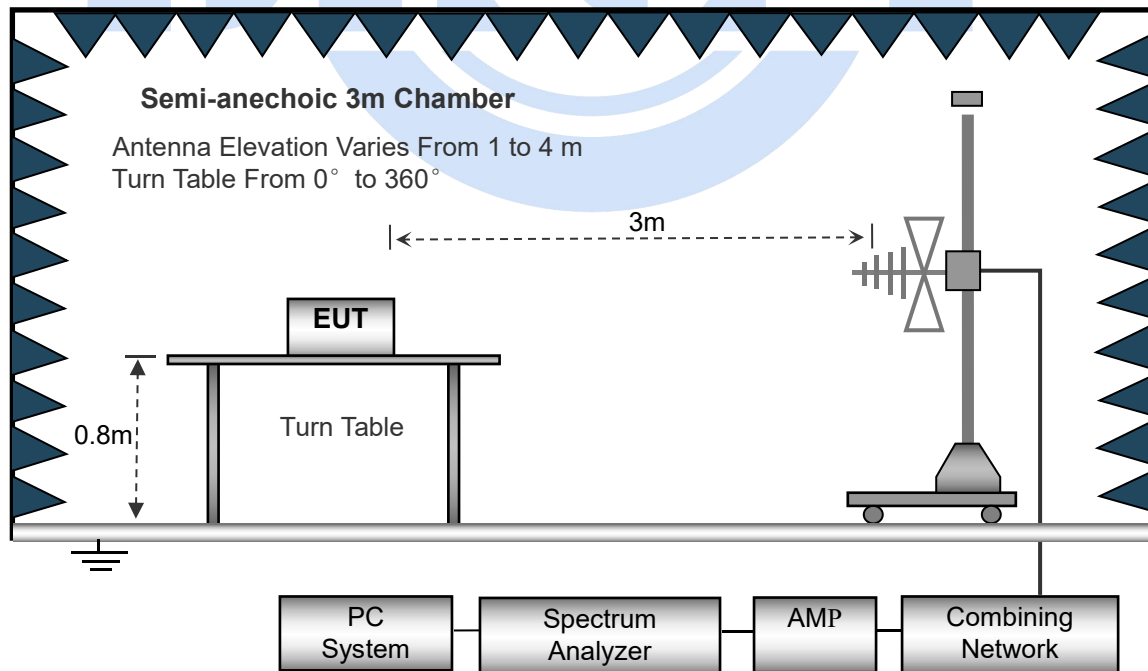
3.2. Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

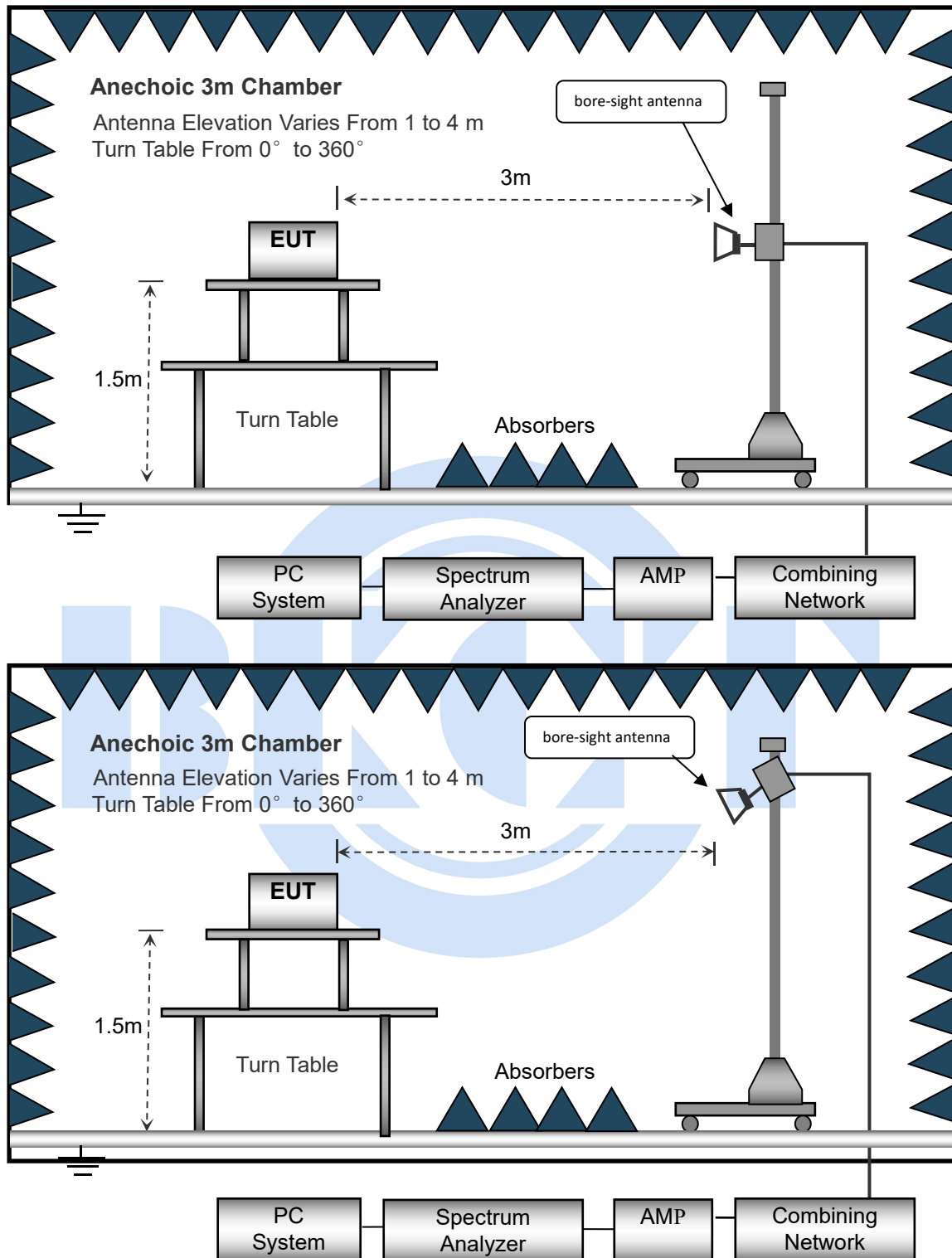
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



3.3. Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. 5.8GHz high - pass filter is used during radiated emissions above 1GHz measurement.



3.4. Test Result

Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 1GHz

Radiation Emission Test Data			
Temperature:	25.1 °C	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Horizontal
Test Voltage :	DC 3.7V	Test Mode	Transmitting



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.6802	37.84	-16.88	20.96	40.00	-19.04	QP
2	122.4040	39.11	-17.78	21.33	43.50	-22.17	QP
3	184.4898	45.32	-18.72	26.60	43.50	-16.90	QP
4	246.8150	44.82	-17.95	26.87	46.00	-19.13	QP
5 *	318.8170	48.58	-16.08	32.50	46.00	-13.50	QP
6	900.1473	32.22	-7.60	24.62	46.00	-21.38	QP

Radiation Emission Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase :	Vertical
Test Voltage :	DC 3.7V	Test Mode	Transmitting



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	33.5623	48.89	-16.89	32.00	40.00	-8.00	QP
2	40.2754	43.39	-16.26	27.13	40.00	-12.87	QP
3	123.2651	37.71	-17.74	19.97	43.50	-23.53	QP
4	185.7880	39.63	-18.87	20.76	43.50	-22.74	QP
5	315.4806	44.20	-16.13	28.07	46.00	-17.93	QP
6	663.4728	36.38	-10.58	25.80	46.00	-20.20	QP

Test Frequency 1GHz-40GHz:

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Channel:5743MHz									
V	11486.00	54.11	30.55	5.77	24.66	53.99	74.00	-20.01	Pk
V	11486.00	43.32	30.55	5.77	24.66	43.20	54.00	-10.80	AV
V	17229.00	51.90	30.33	6.32	24.55	52.44	74.00	-21.56	Pk
V	17229.00	43.90	30.33	6.32	24.55	44.44	54.00	-9.56	AV
V	22972.00	52.55	30.85	7.45	24.69	53.84	74.00	-20.16	Pk
V	22972.00	43.79	30.85	7.45	24.69	45.08	54.00	-8.92	AV
V	28715.00	53.71	31.02	8.99	25.57	57.25	74.00	-16.75	Pk
V	28715.00	43.88	31.02	8.99	25.57	47.42	54.00	-6.58	AV
V	34458.00	52.95	31.25	9.38	25.71	67.87	74.00	-6.13	Pk
V	34458.00	36.98	31.25	9.38	25.71	58.9	54.00	-2.1	AV
V	40000.00	50.78	31.65	9.88	25.93	66.38	74.00	-7.62	Pk
V	40000.00	36.19	31.65	9.88	25.93	58.79	54.00	-2.21	AV
H	11486.00	51.24	30.55	5.77	24.66	51.12	74.00	-22.88	Pk
H	11486.00	43.78	30.55	5.77	24.66	43.66	54.00	-10.34	AV
H	17229.00	51.38	30.33	6.32	24.55	51.92	74.00	-22.08	Pk
H	17229.00	43.23	30.33	6.32	24.55	43.77	54.00	-10.23	AV
H	22972.00	53.14	30.85	7.45	24.69	54.43	74.00	-19.57	Pk
H	22972.00	43.15	30.85	7.45	24.69	44.44	54.00	-9.56	AV
H	28715.00	51.89	31.02	8.99	25.57	55.43	74.00	-18.57	Pk
H	28715.00	43.11	31.02	8.99	25.57	46.65	54.00	-7.35	AV
H	34458.00	52.79	31.25	9.38	25.71	67.71	74.00	-6.29	Pk
H	34458.00	35.54	31.25	9.38	25.71	50.46	54.00	-3.54	AV
H	40000.00	53.66	31.65	9.88	25.93	69.26	74.00	-4.74	Pk
H	40000.00	36.18	31.65	9.88	25.93	51.78	54.00	-2.22	AV

Band edge MEASUREMENT

	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
FSK	Channel: 5743MHz									
	H	5725	53.89	30.22	4.85	23.98	52.50	74.00	-21.50	PK
	H	5725	44.02	30.22	4.85	23.98	42.63	54.00	-11.37	AV
	H	5720	53.98	30.22	4.85	23.98	52.59	74.00	-21.41	PK
	H	5720	44.21	30.22	4.85	23.98	42.82	54.00	-11.18	AV
	V	5725	53.53	30.22	4.85	23.98	52.14	74.00	-21.86	PK
	V	5725	44.89	30.22	4.85	23.98	43.50	54.00	-10.50	AV
	V	5720	54.39	30.22	4.85	23.98	53.00	74.00	-21.00	PK
	V	5720	44.10	30.22	4.85	23.98	42.71	54.00	-11.29	AV
	Channel: 5743MHz									
	H	5875	54.01	30.22	4.85	23.98	52.62	74.00	-21.38	PK
	H	5875	44.11	30.22	4.85	23.98	42.72	54.00	-11.28	AV
	H	5880	53.59	30.22	4.85	23.98	52.20	74.00	-21.80	PK
	H	5880	44.26	30.22	4.85	23.98	42.87	54.00	-11.13	AV
	V	5875	53.87	30.22	4.85	23.98	52.48	74.00	-21.52	PK
	V	5875	44.70	30.22	4.85	23.98	43.31	54.00	-10.69	AV

V	5880	54.13	30.22	4.85	23.98	52.74	74.00	-21.26	PK
V	5880	44.42	30.22	4.85	23.98	43.03	54.00	-10.97	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit
2. . The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Field Strength of The Fundamental Signal Data

FSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Channel:5743MHz									
V	5743	93.11	30.55	5.77	33.51	101.84	114.00	-12.16	Pk
V	5743	72.07	30.55	5.77	33.51	80.80	94.00	-13.20	AV
H	5743	92.86	30.55	5.77	33.51	101.59	114.00	-12.41	Pk
H	5743	72.46	30.55	5.77	33.51	81.19	94.00	-12.81	AV

Note: 1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

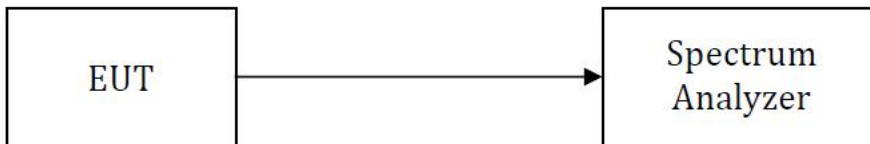
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

-20 dB Bandwidth Measurement

3.5.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.215

3.6.Test Setup

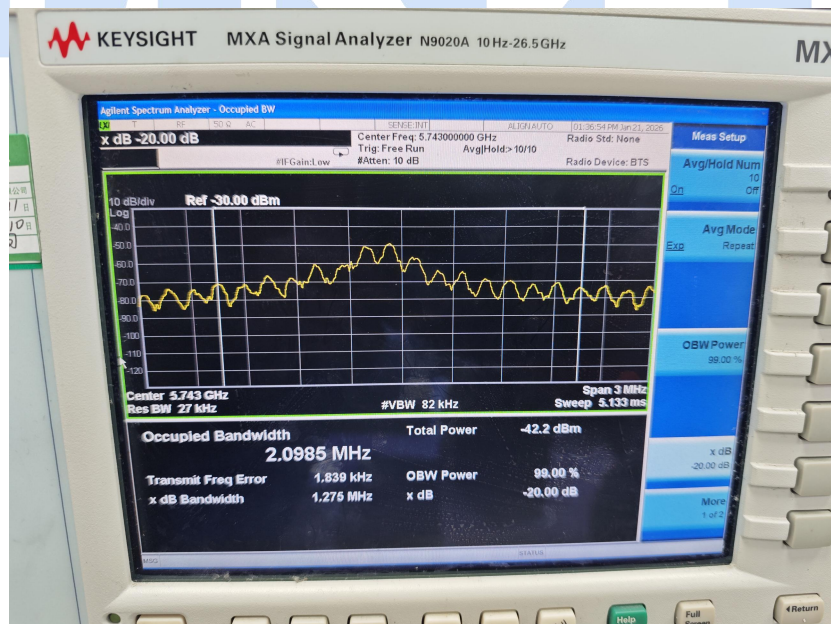


3.7.Test Procedure

1. Set the spectrum analyzer: RBW = 1%-5% OBW
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by -20 dB relative to the maximum level measured in the fundamental emission

3.8.Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-20dB OBW (MHz)
FSK	5743	Ant1	2.0985	1.275



4. Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an PCB antenna fulfill the requirement of this section.



5. Test Photographs

Please see Attachment BKC25125425ME-3.

6. Appendix I: Photos of the EUT

Please see Attachment BKC25125425ME-4 and BKC25125425ME-5.

