



TEST REPORT

Applicant : Shenzhen DongShengXuRi Electronics Technology Co., Ltd
Address : No.16 Plant, GangBei Industrial Zone, Xixiang Street,Bao'an District,
Shenzhen China
Manufacturer : Shenzhen DongShengXuRi Electronics Technology Co., Ltd
Address : No.16 Plant, GangBei Industrial Zone, Xixiang Street,Bao'an District,
Shenzhen China
Product Name : Game console
Model Number : S010
Trademark : N/A
FCC ID : 2AYG3-S010-01
Test Date : May 29, 2026 ~ Jun. 12, 2026
Date of Report : Jun. 12, 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 15.247
ANSI C63.10-2020+Cor.1-2023

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TABLE OF CONTENT

1. General Information	4
1.1. Description of Device (EUT)	4
1.2. Channel List	4
1.3. Summary of test result	5
1.4. Special Accessories and Auxiliary Equipment	5
1.5. Test mode	5
1.6. Block Diagram	6
1.7. Test Conditions	7
1.8. Measurement Uncertainty (95% confidence levels, k=2)	7
1.9. Test Facility	7
1.10. Test Equipment	8
2. Conducted emission at the mains terminals test	10
2.1. Limit	10
2.2. Test Setup	10
2.3. Test Procedure	10
2.4. Test Result	11
3. Radiated Spurious Emissions	13
3.1. Limit	13
3.2. Test Setup	14
3.3. Test Procedure	16
3.4. Test Result	17
4. Conducted Spurious Emissions	22
4.1. Limit	22
4.2. Test Setup	22
4.3. Test Procedure	22
4.4. Test Result	23
5. Band Edge Measurement	24
5.1. Limit	24
5.2. Test setup	24
5.3. Test Procedure	24
5.4. Test Result	24
6. -6 dB Bandwidth and 99% Bandwidth Measurement	25
6.1. Limit	25
6.2. Test Setup	25
6.3. Test Procedure	25
6.4. Test Result	25
7. Maximum Peak Output Power& E.I.R.P	26
7.1. Limit	26
7.2. Test Setup	26
7.3. Test Procedure	26
8. Power Spectral density	27
8.1. Limit	27
8.2. Test Setup	27
8.3. Test Procedure	27
8.4. Test Result	27
9. Antenna Requirement	28
9.1. Antenna Requirement	28
9.2. Result	28
10. Test Photographs&Photos of the EUT	29

Revision History of This Test Report

[illegible]

1. General Information

1.1. Description of Device (EUT)

EUT Name : Game console
Model No. : S010
Model Difference : N/A
Power supply : DC 5V From Adapter AC 120V/60Hz
Operation frequency : 2402-2480MHz
Max. RF output power: : -0.14dBm
Modulation : GFSK
Antenna Type : PCB Antenna, Maximum Gain is -6.17dBi
Intend use environment : Residential, commercial and light industrial environment

1.2. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

1.3.Summary of test result

RF PART		
Test Items	Test Requirement	Result
Antenna requirement	FCC part 15.203/15.247(b)(4)	PASS
AC Power Line Conducted Emission	FCC part 15.207	PASS
Conducted Peak Output Power	FCC part 15.247 (b)(3)	PASS
Channel Bandwidth& 99% OCB	FCC part 15.247 (a)(2)	PASS
Power Spectral Density	FCC part 15.247 (e)	PASS
Band Edge	FCC part 15.247(d)	PASS
Spurious Emission	FCC part 15.205/15.209/15. 247(d)	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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Game console	N/A	S010	N/A	EUT
E-2	Power Adapter	N/A	M4-0510CU	N/A	Auxiliary

1.5.Test mode

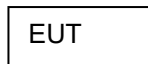
The special RF test software was used to control EUT work in Continuous BLE TX mode, and select test channel, wireless mode.

Test mode	Low channel	Middle channel	High channel
GFSK	2402MHz	2440MHz	2480MHz
Note: Only the worst Data DH5 Record in the report			

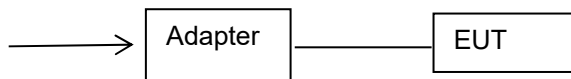
Test Software	WS8xx RF Test_V0.0.4
Power level setup	0 dBm

1.6.Block Diagram

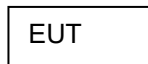
Radiated Emission



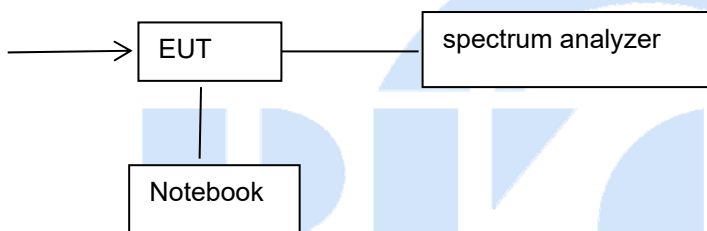
Conducted Emission



Radiated Spurious



Conducted Spurious



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 5V	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. 08. 2026	Mar. 07. 2027
2	EMI Test Receiver	R&S	ESCI	101424	Mar. 08. 2026	Mar. 07. 2027
3	Rf cables	HTEC	HCE 2M-CE	N/A	Mar. 08. 2026	Mar. 07. 2027
4	Coupling/ Decoupling Network	Diamond	CX210	N/A	Mar. 08. 2026	Mar. 07. 2027
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. 09. 2026	Mar. 08. 2027
3	Preamplifier	HP	8447D	2727A05345	Mar. 09. 2026	Mar. 08. 2027
4	Double Ridged Broadband	SCHWARZBEC K	BBHA 9120D	02621	Mar. 09. 2026	Mar. 08. 2027
5	Preamplifier	Schwarzbeck	BBV 9718D	00041	Mar. 09. 2026	Mar. 08. 2027
6	Rf cables	HUBER+SUHNE R	8M-RE	N/A	Mar. 09. 2026	Mar. 08. 2027
7	Rf cables	HUBER+SUHNE R	1.5M-RE	N/A	Mar. 09. 2026	Mar. 08. 2027
8	Rf cables	HUBER+SUHNE R	1.5M-AP-RE	N/A	Mar. 09. 2026	Mar. 08. 2027
9	Loop antenna	ANRF	ANRF-6603	091802	Mar. 16. 2026	Mar. 15. 2027
10	Spectrum analyzer	R&S	FSP40	200061	Mar. 09. 2026	Mar. 10. 2027
11	Double Ridged Broadband Horn Antenna	COM-POWER	AH-1840	10100009	Mar. 10. 2026	Mar. 09. 2027
12	Spectrum	Agilent	N9020A	MY50510311	Mar. 09. 2026	Mar. 08. 2027
13	Band Stop Filter	Bafang	BSF5G	2024052610	Mar. 09. 2026	Mar. 08. 2027
14	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. 2026	Mar. 08. 2027
2	Vector source	Agilent	N5182A	MY47420223	Mar. 09. 2026	Mar. 08. 2027
3	All instrument	Rohde & Schwarz	CMW 500	101131	Mar. 09. 2026	Mar. 08. 2027
4	control unit	MW	MW100-RFCB	MW200411BK -34	/	Mar. 10. 2027
5	RF Testing software	MW	MTS 8310	/	/	/
6	Spectrum analyzer	R&S	FSP40	200061	Mar. 11. 2026	Mar. 10. 2027

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

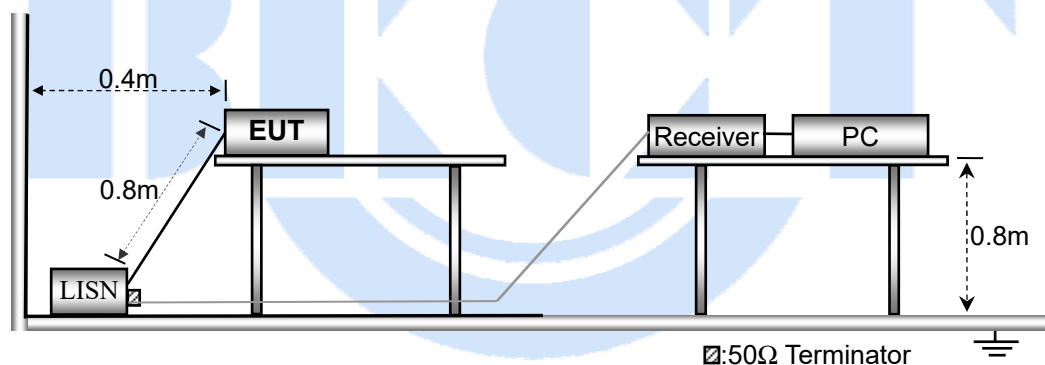
Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020+Cor.1-2023
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

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

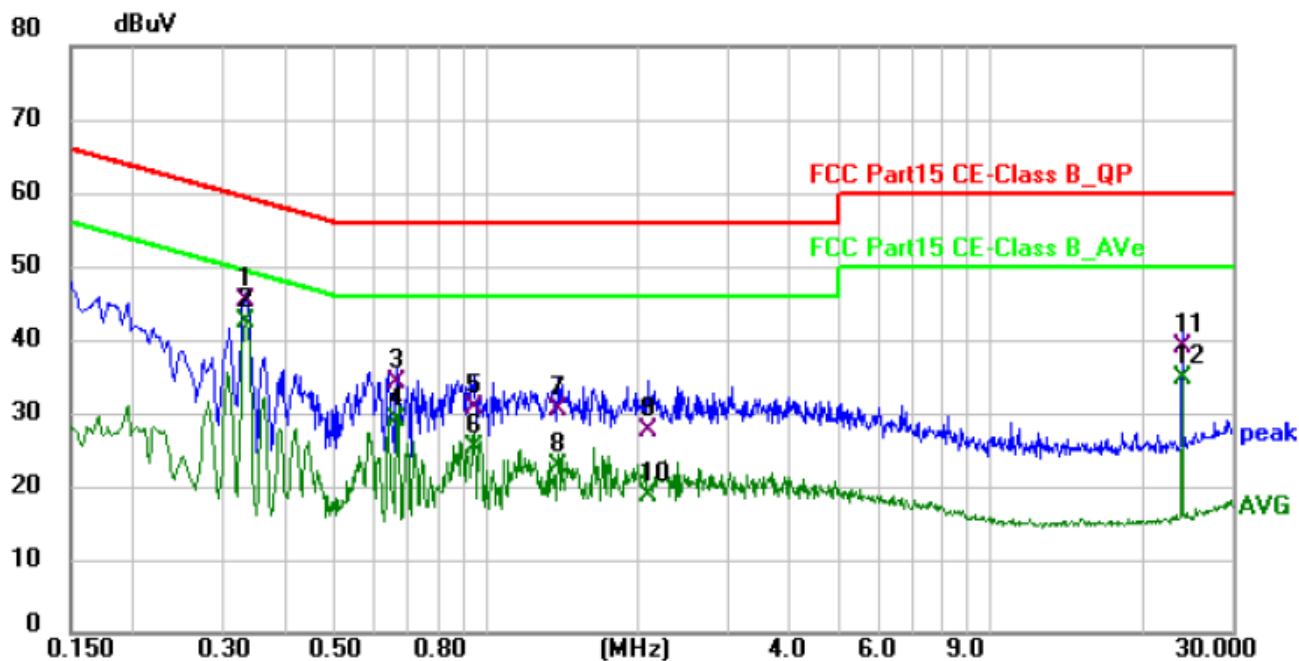


2.3.Test Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane. 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°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase:	Line
Test Voltage:	AC 120V/60Hz	Test Mode:	Working



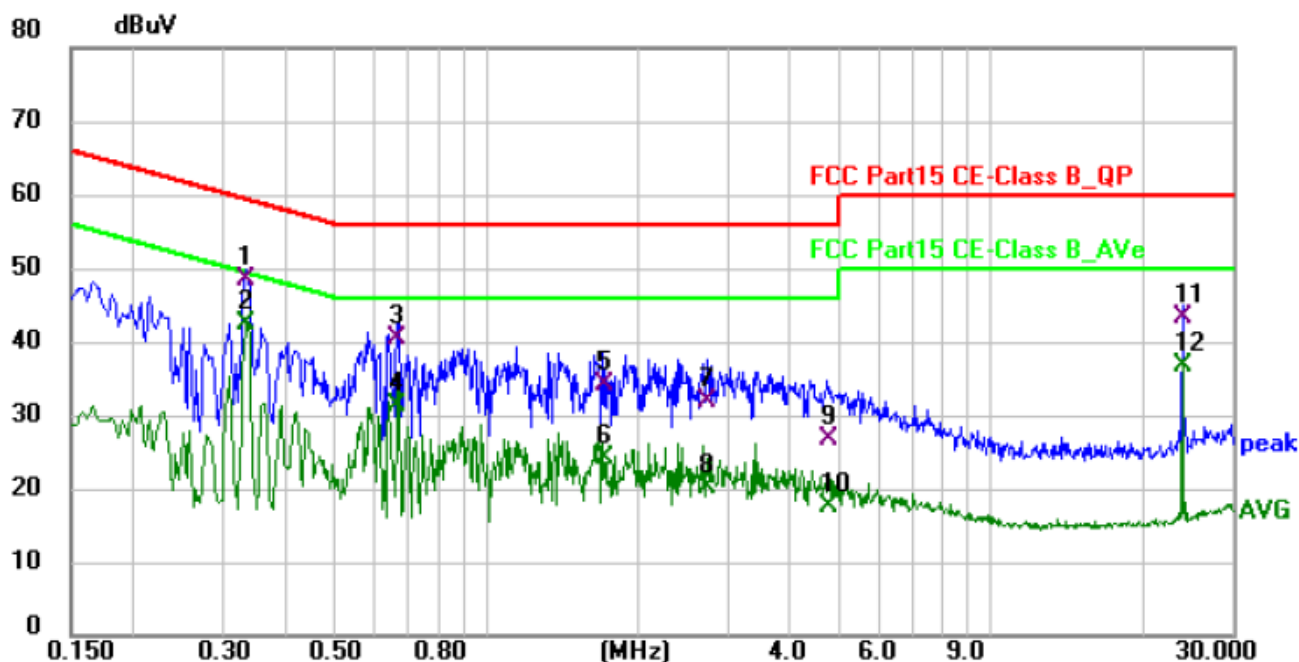
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3325	25.82	19.44	45.26	59.39	-14.13	QP
2 *	0.3325	23.00	19.44	42.44	49.39	-6.95	AVG
3	0.6638	14.60	19.46	34.06	56.00	-21.94	QP
4	0.6638	9.45	19.46	28.91	46.00	-17.09	AVG
5	0.9497	11.32	19.52	30.84	56.00	-25.16	QP
6	0.9497	5.69	19.52	25.21	46.00	-20.79	AVG
7	1.3831	11.01	19.44	30.45	56.00	-25.55	QP
8	1.3831	3.26	19.44	22.70	46.00	-23.30	AVG
9	2.0958	8.20	19.37	27.57	56.00	-28.43	QP
10	2.0958	-0.68	19.37	18.69	46.00	-27.31	AVG
11	24.0024	18.98	20.02	39.00	60.00	-21.00	QP
12	24.0024	14.59	20.02	34.61	50.00	-15.39	AVG

Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

Conducted Emission at The Mains Terminals Test Data

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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3328	28.85	19.52	48.37	59.38	-11.01	QP
2 *	0.3328	22.77	19.52	42.29	49.38	-7.09	AVG
3	0.6669	21.02	19.49	40.51	56.00	-15.49	QP
4	0.6669	11.74	19.49	31.23	46.00	-14.77	AVG
5	1.6987	14.62	19.55	34.17	56.00	-21.83	QP
6	1.6987	4.68	19.55	24.23	46.00	-21.77	AVG
7	2.7301	12.22	19.53	31.75	56.00	-24.25	QP
8	2.7301	0.64	19.53	20.17	46.00	-25.83	AVG
9	4.7322	7.27	19.53	26.80	56.00	-29.20	QP
10	4.7322	-1.83	19.53	17.70	46.00	-28.30	AVG
11	24.0006	23.23	20.13	43.36	60.00	-16.64	QP
12	24.0006	16.61	20.13	36.74	50.00	-13.26	AVG

Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

3. Radiated Spurious Emissions

3.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10-2020+Cor.1-2023

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

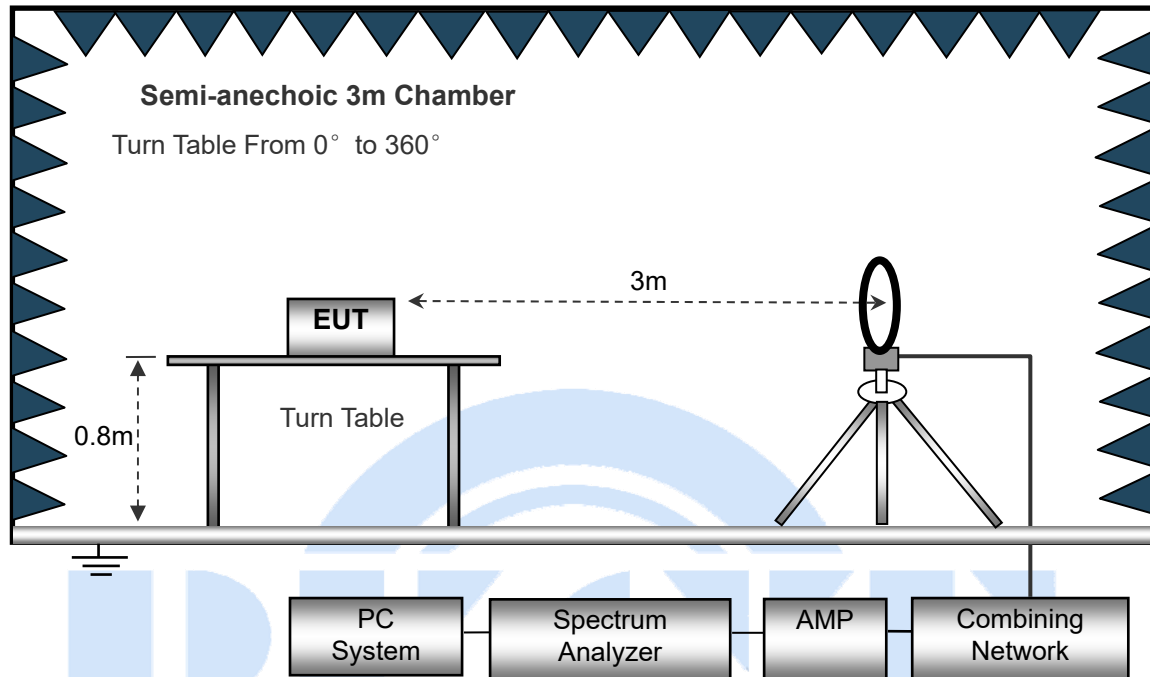
Limit:

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	$20\log(500)$

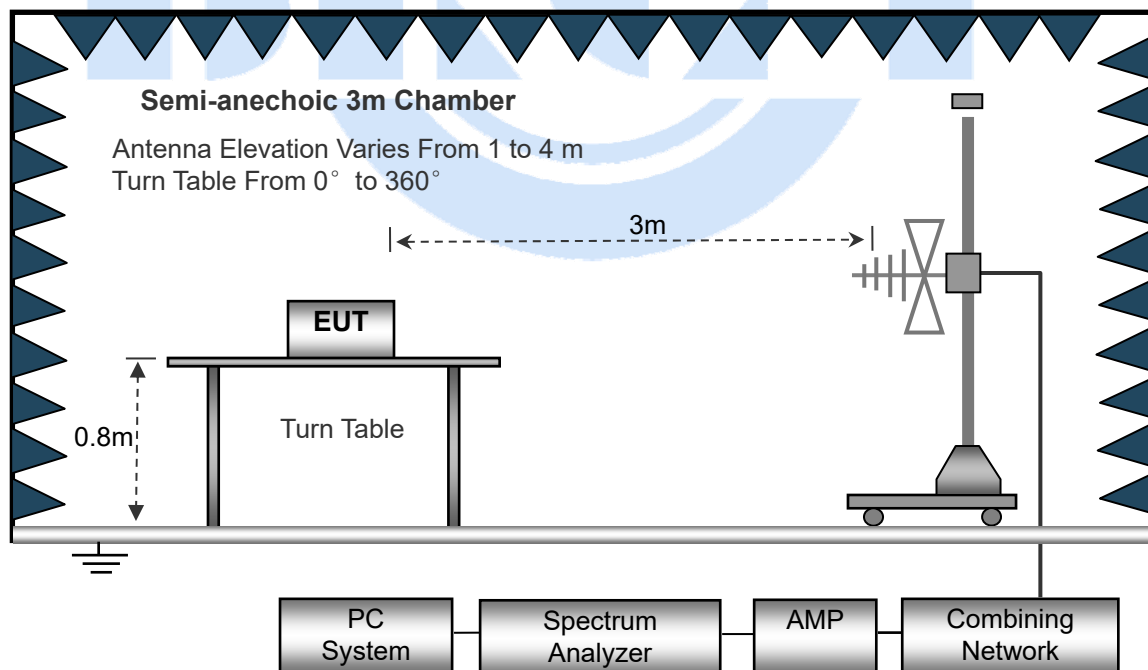
3.2.Test Setup

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

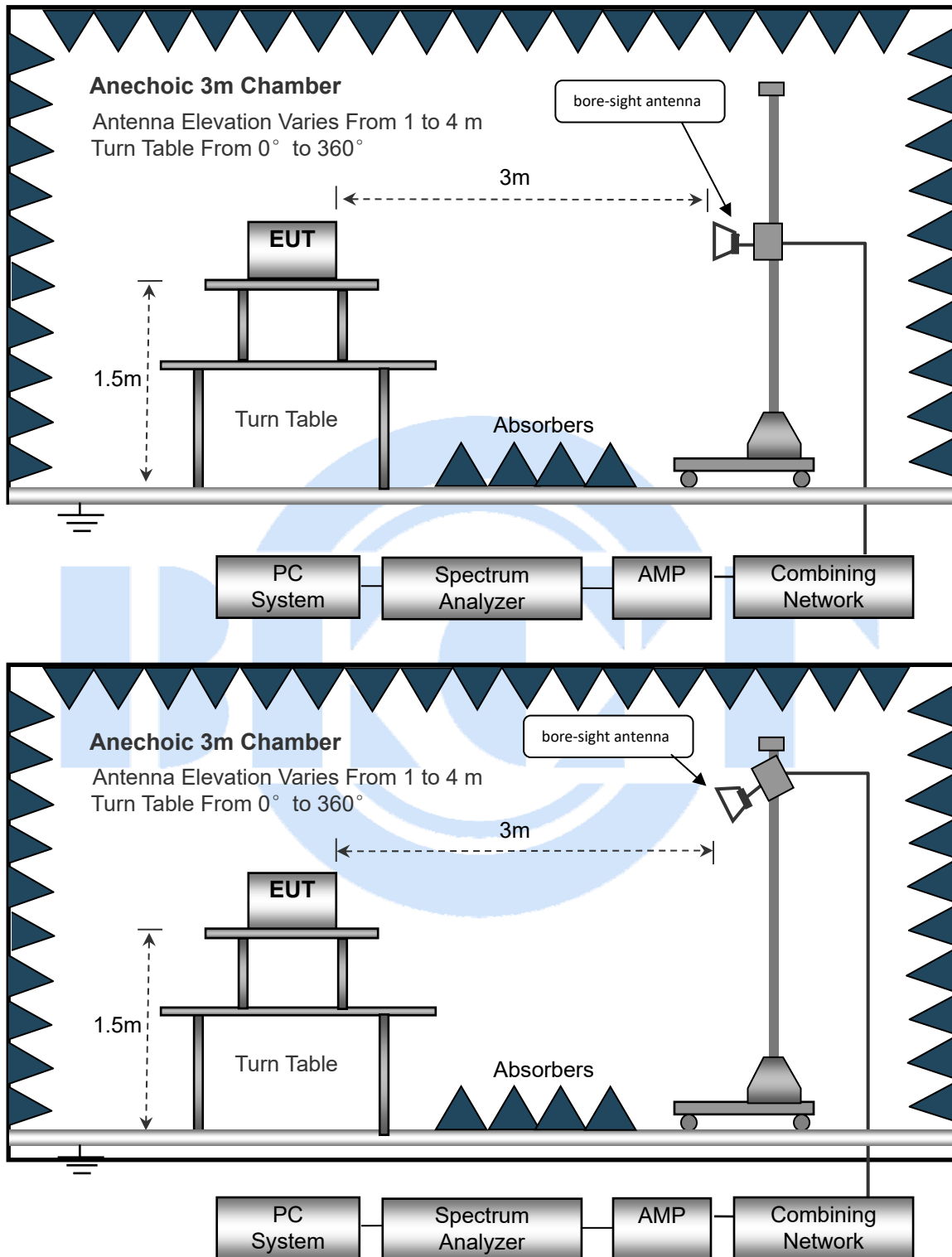
The test setup for emission measurement below 30MHz.



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. A 2.4GHz high - pass filter is used during radiated emissions above 1GHz measurement.



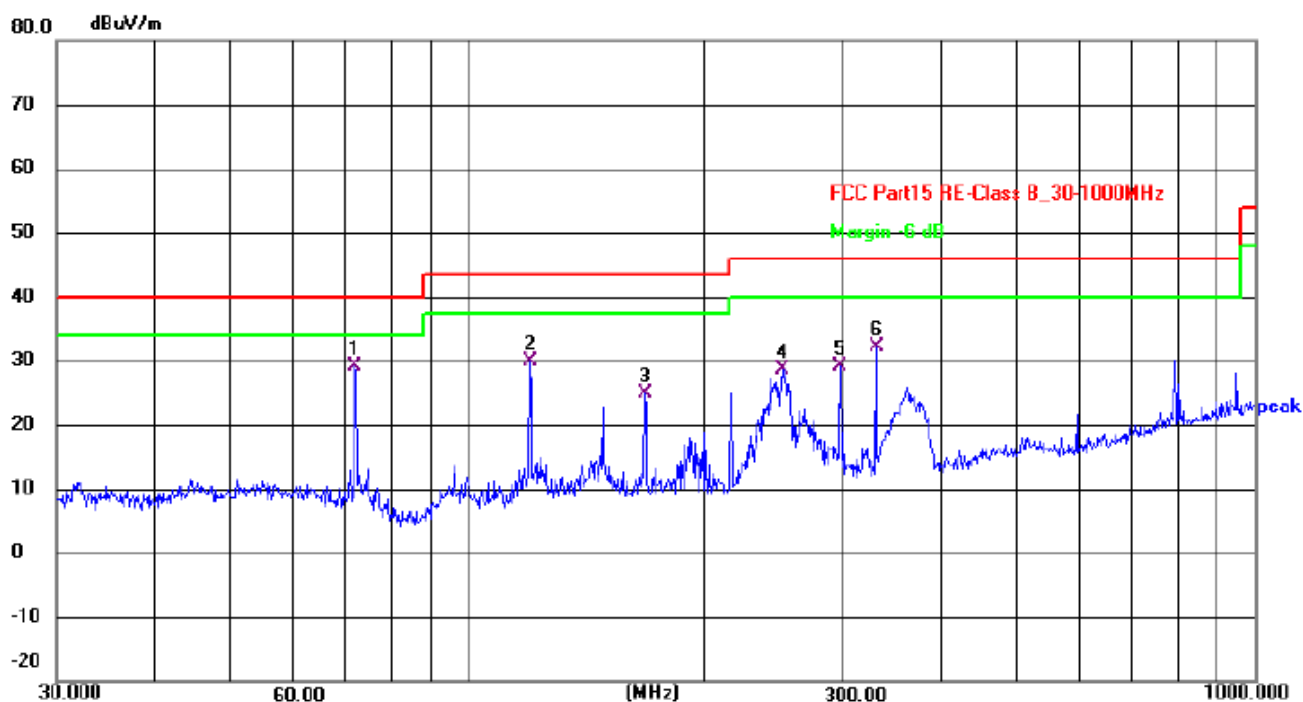
3.4.Test Result

Test Frequency: 9KHz~30MHz

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

Test Frequency : 30MHz ~ 1GHz

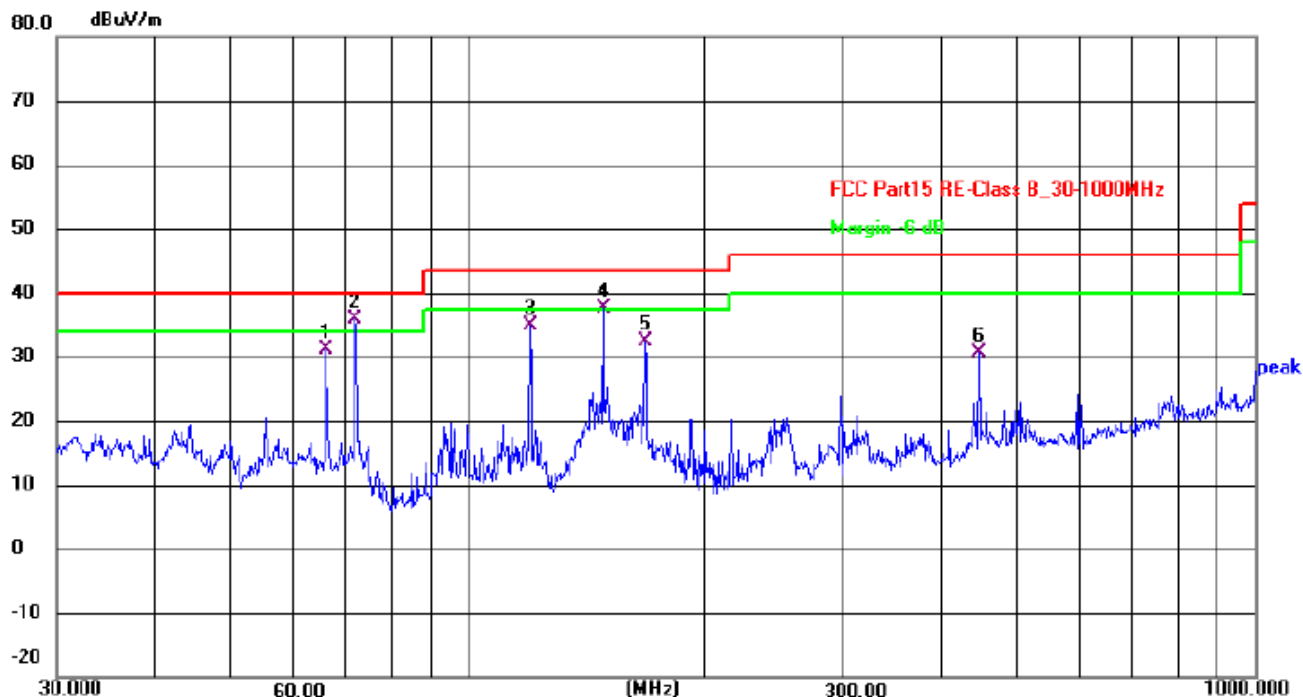
Radiation Emission Test Data			
Temperature:	25.1℃	Relative Humidity:	56%
Pressure:	1008hPa	Phase:	Horizontal
Test Voltage:	AC 120V/60Hz	Test Mode	GFSK 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	71.8320	47.62	-18.46	29.16	40.00	-10.84	QP
2	119.8556	47.18	-17.34	29.84	43.50	-13.66	QP
3	167.8242	43.64	-18.67	24.97	43.50	-18.53	QP
4	251.1804	43.68	-14.96	28.72	46.00	-17.28	QP
5	297.2240	42.63	-13.48	29.15	46.00	-16.85	QP
6	330.1948	45.26	-13.20	32.06	46.00	-13.94	QP

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

Radiation Emission Test Data			
Temperature:	25.1°C	Relative Humidity:	56%
Pressure:	1008hPa	Phase:	Vertical
Test Voltage:	AC 120V/60Hz	Test Mode	GFSK 2402MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	66.0342	48.10	-16.88	31.22	40.00	-8.78	QP
2	71.8320	54.42	-18.46	35.96	40.00	-4.04	QP
3	119.8556	52.32	-17.34	34.98	43.50	-8.52	QP
4	148.4410	56.90	-19.34	37.56	43.50	-5.94	QP
5	167.8243	51.14	-18.67	32.47	43.50	-11.03	QP
6	446.4141	41.02	-10.45	30.57	46.00	-15.43	QP

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



1GHz~26.5GHz

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:2402MHz									
V	4804.00	49.37	34.12	5.03	32.39	52.67	74.00	-21.33	Pk
V	4804.00	40.63	34.12	5.03	32.39	43.93	54.00	-10.07	AV
V	7206.00	48.70	32.54	6.29	35.86	58.31	74.00	-15.69	Pk
V	7206.00	33.12	32.54	6.29	35.86	42.73	54.00	-11.27	AV
V	9608.00	47.12	32.98	7.55	38.40	60.09	74.00	-13.91	Pk
V	9608.00	32.33	32.98	7.55	38.40	45.30	54.00	-8.70	AV
V	12010.00	45.33	32.09	8.93	39.00	61.17	74.00	-12.83	Pk
V	12010.00	27.01	32.09	8.93	39.00	42.85	54.00	-11.15	AV
H	4804.00	50.38	34.12	5.03	32.39	53.68	74.00	-20.32	Pk
H	4804.00	37.70	34.12	5.03	32.39	41.00	54.00	-13.00	AV
H	7206.00	45.39	32.54	6.29	35.86	55.00	74.00	-19.00	Pk
H	7206.00	31.28	32.54	6.29	35.86	40.89	54.00	-13.11	AV
H	9608.00	45.68	32.98	7.55	38.40	58.65	74.00	-15.35	Pk
H	9608.00	27.19	32.98	7.55	38.40	40.16	54.00	-13.84	AV
H	12010.00	38.97	32.09	8.93	39.00	54.81	74.00	-19.19	Pk
H	12010.00	25.78	32.09	8.93	39.00	41.62	54.00	-12.38	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Middle Channel:2440MHz									
V	4880.00	47.84	34.07	5.09	32.59	51.45	74.00	-22.55	Pk
V	4880.00	38.21	34.07	5.09	32.59	41.82	54.00	-12.18	AV
V	7320.00	46.43	32.63	6.34	35.96	56.10	74.00	-17.90	Pk
V	7320.00	33.58	32.63	6.34	35.96	43.25	54.00	-10.75	AV
V	9760.00	42.40	32.92	7.59	38.40	55.47	74.00	-18.53	Pk
V	9760.00	30.22	32.92	7.59	38.40	43.29	54.00	-10.71	AV
V	12200.00	40.26	31.96	8.88	39.04	56.22	74.00	-17.78	Pk
V	12200.00	27.41	31.96	8.88	39.04	43.37	54.00	-10.63	AV
H	4880.00	49.53	34.07	5.09	32.59	53.14	74.00	-20.86	Pk
H	4880.00	39.65	34.07	5.09	32.59	43.26	54.00	-10.74	AV
H	7320.00	46.07	32.63	6.34	35.96	55.74	74.00	-18.26	Pk
H	7320.00	33.92	32.63	6.34	35.96	43.59	54.00	-10.41	AV
H	9760.00	40.73	32.92	7.59	38.40	53.80	74.00	-20.20	Pk
H	9760.00	29.43	32.92	7.59	38.40	42.50	54.00	-11.50	AV
H	12200.00	38.81	31.96	8.88	39.04	54.77	74.00	-19.23	Pk
H	12200.00	28.38	31.96	8.88	39.04	44.34	54.00	-9.66	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
High Channel:2480MHz									
V	4960.00	47.39	34.02	5.15	32.80	51.32	74.00	-22.68	Pk
V	4960.00	36.13	34.02	5.15	32.80	40.06	54.00	-13.94	AV
V	7440.00	44.26	32.71	6.40	36.05	54.00	74.00	-20.00	Pk
V	7440.00	34.84	32.71	6.40	36.05	44.58	54.00	-9.42	AV
V	9920.00	39.99	32.86	7.62	38.40	53.15	74.00	-20.85	Pk
V	9920.00	27.04	32.86	7.62	38.40	40.20	54.00	-13.80	AV
V	12400.00	38.32	31.82	8.84	39.08	54.42	74.00	-19.58	Pk
V	12400.00	27.30	31.82	8.84	39.08	43.40	54.00	-10.60	AV
H	4960.00	46.27	34.02	5.15	32.80	50.20	74.00	-23.80	Pk
H	4960.00	38.46	34.02	5.15	32.80	42.39	54.00	-11.61	AV
H	7440.00	44.31	32.71	6.40	36.05	54.05	74.00	-19.95	Pk
H	7440.00	32.12	32.71	6.40	36.05	41.86	54.00	-12.14	AV
H	9920.00	40.46	32.86	7.62	38.40	53.62	74.00	-20.38	Pk
H	9920.00	27.66	32.86	7.62	38.40	40.82	54.00	-13.18	AV
H	12400.00	39.77	31.82	8.84	39.08	55.87	74.00	-18.13	Pk
H	12400.00	28.20	31.82	8.84	39.08	44.30	54.00	-9.70	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.



Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

	Polar (H/V)	Frequenc y (MHz)	Meter Reading (dBuV)	Pre- amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV /m)	Margi n(dB)	Detec tor Type	Result	
GFSK	Low Channel: 2402MHz											
	H	2390.00	57.59	35.17	3.48	27.49	53.39	74.00	-20.61	PK	PASS	
	H	2390.00	49.47	35.17	3.48	27.49	45.27	54.00	-8.73	AV	PASS	
	H	2400.00	59.00	35.16	3.49	27.52	54.85	74.00	-19.15	PK	PASS	
	H	2400.00	49.46	35.16	3.49	27.52	45.31	54.00	-8.69	AV	PASS	
	V	2390.00	57.28	35.17	3.48	27.49	53.08	74.00	-20.92	PK	PASS	
	V	2390.00	48.64	35.17	3.48	27.49	44.44	54.00	-9.56	AV	PASS	
	V	2400.00	58.33	35.16	3.49	27.52	54.18	74.00	-19.82	PK	PASS	
	V	2400.00	48.67	35.16	3.49	27.52	44.52	54.00	-9.48	AV	PASS	
	High Channel: 2480MHz											
	H	2483.50	56.79	35.11	3.56	27.75	52.99	74.00	-21.01	PK	PASS	
	H	2483.50	48.27	35.11	3.56	27.75	44.47	54.00	-9.53	AV	PASS	
	H	2500.00	58.82	35.10	3.57	27.80	55.09	74.00	-18.91	PK	PASS	
	H	2500.00	48.84	35.10	3.57	27.80	45.11	54.00	-8.89	AV	PASS	
	V	2483.50	57.22	35.11	3.56	27.75	53.42	74.00	-20.58	PK	PASS	
	V	2483.50	49.93	35.11	3.56	27.75	46.13	54.00	-7.87	AV	PASS	
	V	2500.00	58.31	35.10	3.57	27.80	54.58	74.00	-19.42	PK	PASS	
	V	2500.00	49.10	35.10	3.57	27.80	45.37	54.00	-8.63	AV	PASS	
Remark:												
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit												

4. Conducted Spurious Emissions

4.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: ANSI C63.10-2020+Cor.1-2023
Test Result: PASS

Limit:

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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

4.2.Test Setup



4.3.Test Procedure

Reference level measurement

Establish a reference level by using the following procedure:

- Set instrument center frequency to DTS channel center frequency.
- Set the span to ≥ 1.5 times the DTS bandwidth.
- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level

Emission level measurement

Establish an emission level by using the following procedure:

- Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

NOTE—the number of points can also be increased for large spans to retain frequency resolution

- Set the RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report

4.4.Test Result

Please see the attachment for data.



5. Band Edge Measurement

5.1.Limit

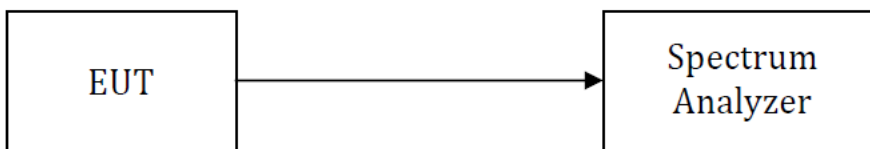
Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method:ANSI C63.10-2020+Cor.1-2023

Test Limit: Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band 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)).

Test Mode: Transmitting

5.2.Test setup



5.3.Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

5.4.Test Result

Please see the attachment for data.

6. -6 dB Bandwidth and 99% Bandwidth Measurement

6.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: ANSI C63.10-2020+Cor.1-2023

6.2.Test Setup



6.3.Test Procedure

For 6dB Bandwidth Measurement

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2.The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1(i.e, RBW= 100 kHz VBW>3 x RBW,and peak detector with maximum hold) is implemented by the instrumentation function.When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.
- 3.The steps for the first option are as follows:
 - a.Set RBW= shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
 - b.Set the VBW[3 x RBW].
 - c.Detector = peak
 - d.Trace mode = max-hold.
 - e.Sweep = No faster than coupled (auto) time.
 - f.Allow the trace to stabilize.
 - g.Measure the maximum width of the emission by placing two markers, one at the lowest frequencyand the other at the highest frequency of the envelope of the spectral display, such that each markeris at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude?" value, then it shall be as close as possible to this value.

For 99% Bandwidth Measurement

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1%-5% OBW, VBW ≥ 3 RBW

6.4.Test Result

Please see the attachment for data.

7. Maximum Peak Output Power& E.I.R.P

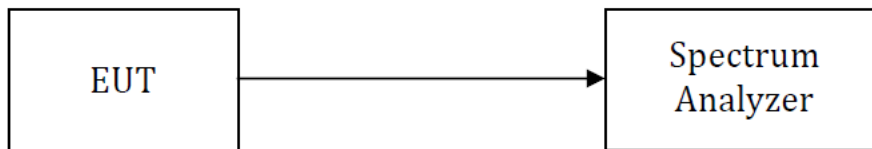
7.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: ANSI C63.10-2020+Cor.1-2023

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2.Test Setup



7.3.Test Procedure

ANSI C63.10-2020+Cor.1-2023

section 8.3.1.1 (For BLE)

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- Set the RBW $\geq$ DTS bandwidth.
- Set VBW $\geq 3 \times$ RBW.
- Set span $\geq 3 \times$ RBW
- Sweep time = auto couple.
- Detector = peak.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use peak marker function to determine the peak amplitude level.

8. Power Spectral density

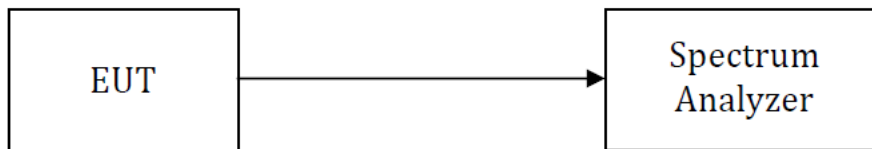
8.1.Limit

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: ANSI C63.10-2020+Cor.1-2023

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

8.2.Test Setup



8.3.Test Procedure

ANSI C63.10-2020+Cor.1-2023

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

8.4.Test Result

Please see the attachment for data.

9. Antenna Requirement

9.1. Antenna Requirement

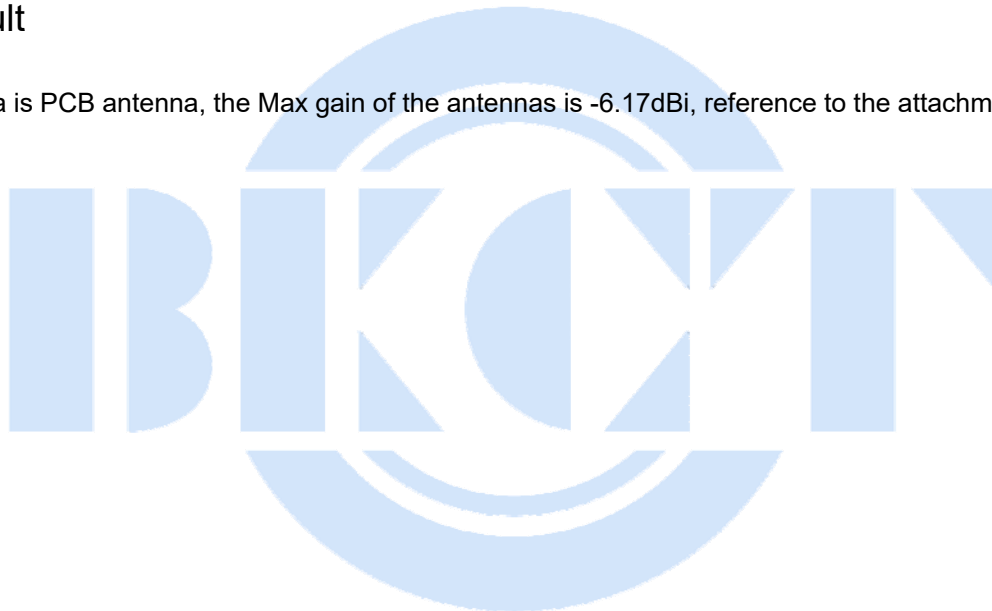
According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has an integrated antenna fulfill the requirement of this section.

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.

9.2. Result

The antenna is PCB antenna, the Max gain of the antennas is -6.17dBi, reference to the attachment for details.



10. Test Photographs&Photos of the EUT

Please see the attachment for details.

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

