TEST REPORT

Report No.	CISRR250513041
Project No.	CISR250513041
FCC ID	2BPFD-K6
Applicant	Dongguan Xingka Electronic Technology Co., Ltd
Address	Room 801, Building 1, No.56, Zifeng Street, Dalingshan Town, Dongguan City, Guangdong Province
Manufacturer	Dongguan Xingka Electronic Technology Co., Ltd
Address	Room 801, Building 1, No.56, Zifeng Street, Dalingshan Town, Dongguan City, Guangdong Province
Product Name	VIDEO DOORBELL
Trade Mark	N/A
Model/Type reference	K6
Listed Model(s)	N/A
Standard	Part 15 Subpart C Section 15.249
Test date	May 14, 2025 to May 16, 2025
Issue date	May 20, 2025
Test result	**Complied**

Lucas Huang

Prepared by: Lucas Huang

GenryLong

Approved by: Genry Long

The test results relate only to the tested samples.

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Contents

1. REPORT VERSION

Version No.	Issue date	Description
00	May 20, 2025	Original

2. SUMMARY OF TEST RESULT

Report clause	Test Item	Standard Requirement	Result
5.1	Antenna Requirement	15.203	PASS
5.2	AC Conducted Emission	15.207	PASS
5.3	20 dB Bandwidth	15.215 (c)	PASS
5.4	Radiated Band Edge Emission	15.205/15.209/15.249(d)	PASS
5.5	Radiated Spurious Emission	15.249(a)(c)(e)/15.205/15.209	Pass

Note:

– The measurement uncertainty is not included in the test result.

3. SUMMARY

3.1. Product Description

Main unit information:	
Product Name:	VIDEO DOORBELL
Trade Mark:	N/A
Model No.:	K6
Listed Model(s):	N/A
Model difference:	N/A
Power supply:	Input: DC 5V
Hardware version:	NEXTP12A-3292_V2
Software version:	2.4.1
Accessory unit (AU) information:	
Battery information:	DC 3.7V

3.2. Radio Specification Description

Technology:	2.4G
Modulation:	GFSK
Operation frequency:	2412MHz~2469MHz
Channel number:	58
Antenna type:	Metal Antenna
Antenna gain:	3.57dBi

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	16	2427	31	2442	46	2457
2	2413	17	2428	32	2443	47	2458
3	2414	18	2429	33	2444	48	2459
4	2415	19	2430	34	2445	49	2460
5	2416	20	2431	35	2446	50	2461
6	2417z	21	2432	36	2447	51	2462
7	2418	22	2433	37	2448	52	2463

8	2419	23	2434	38	2449	53	2464
9	2420	24	2435	39	2450	54	2465
10	2421	25	2436	40	2451	55	2466
11	2422	26	2437	41	2452	56	2467
12	2423	27	2438	42	2453	57	2468
13	2424	28	2439	43	2454	58	2469
14	2425	29	2440	44	2455		
15	2426	30	2441	45	2456		

3.3. Modification of EUT

No modifications are made to the EUT during all test items.

3.4. Testing Site

Laboratory Name	Shenzhen Bangce Testing Technology Co., Ltd.
Laboratory Location	101, building 10, Yunli Intelligent Park, Shutianpu community, Matian Street, Guangming District, Shenzhen, Guangdong, China
FCC registration number	736346

3.5. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) – AG (dB)

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

4. DISTURBANCE Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

TEST CONFIGURATION
All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

4.1. Test frequency list

Channel	Frequency (MHz)
CH-L	2412
CH-M	2440
CH-H	2469

4.2. Test mode

No	Test mode	Description
TM1	TX mode	Keep the EUT in continuously transmitting mode with GFSK modulation at lowest, middle and highest channel.
TM2	Link mode	Keep the EUT in Bluetooth linking mode with AE.
TM3	Charging mode	Keep the EUT in charging status

4.3. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Item	Equipment name	Trade Name	Model No.
1	Adapter	Guangdong Sangu Technology Co. ltd	SG-0501000AU

4.4. Test sample information

Type	sample no.
Engineer sample	CISR250513041--S01
Normal sample	CISR250513041--S01

4.5. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty

1	AC Conducted Emission	1.63dB
2	20dB Bandwidth	0.002%
3	Radiated Band Edge Emission	3.76dB for 30MHz-1GHz 3.80dB for above 1GHz
4	Radiated Spurious Emission	3.76dB for 30MHz-1GHz 3.80dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

4.7. Equipment Used during the Test

AC Conducted Emission

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Artificial power network	Schwarzbeck	NSLK8127	8127-01096	2025-01-08	2026-01-07
3	8-wire Impedance Stabilization Network	Schwarzbeck	NTFM 8158	8158-00337	2025-01-08	2026-01-07
4	Artificial power network	Schwarzbeck	ENV216	/	2025-01-08	2026-01-07

20 dB Bandwidth

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	MXG RF Signal Generator	Agilent	N5181A	MY50145362	2025-01-08	2026-01-07
2	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
3	Vector Signal Generator	Agilent	N5182A	MY50142364	2025-01-08	2026-01-07

Radiated Band Edge Emission
Radiated Spurious Emission

Item	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	EMI Test Receiver	Rohde&schwarz	ESCI7	100853	2025-01-08	2026-01-07
2	Amplifier	Tonscend	TAP9K3G40	AP23A8060270	2025-01-08	2026-01-07
3	Prime amplifier	Tonscend	TAP01018050	AP23A8060280	2025-01-08	2026-01-07
4	9*6*6 anechoic chamber	SKET	9.3*6.3*6	N/A	2024-09-02	2027-09-01
5	Spectrum analyzer	Agilent	N9020A	MY50530263	2025-01-08	2026-01-07
6	Spectrum analyzer	R&S	FSV-40N	102130	2025-01-08	2026-01-07
7	Bilog Antenna	Schwarzbeck	VULB 9163	1463	2023-01-09	2026-01-08

8	Horn Antenna	SCHWARZBECK	BBHA 9120 D	2487	2023-01-09	2026-01-08
9	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	2023-01-09	2026-01-08
10	RF Cable	Tonscend	Cable 1	/	2025-01-08	2026-01-07
11	RF Cable	Tonscend	Cable 2	/	2025-01-08	2026-01-07
12	RF Cable	SKET	Cable 3	/	2025-01-08	2026-01-07
13	L.I.S.N.#1	Schwarzbeck	NSLK8127	/	2025-01-08	2026-01-07
14	L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	2025-01-08	2026-01-07
15	Horn Antenna	SCHWARZBECK	BBHA9170	1130	2023-01-09	2026-01-08
16	Preamplifier	Tonscend	TAP18040048	AP21C806126	2025-01-08	2026-01-07
17	Variable-frequency power source	Pinhong	PH1110	/	2025-01-08	2026-01-07
18	6dB Attenuator	SKET	DC-6G	/	2025-01-08	2026-01-07
19	Antenna tower	SKT	Bk-4AT-BS	AT2021040101-V1	2025-01-08	2026-01-07

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Standard Applicable	**FCC CFR Title 47 Part 15 Subpart C Section 15.203:** An intentional radiator shall be designed to ensure that no antenna other than that furnished by the response-ble 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.
Description	The EUT antenna is Metal Antenna(3.57dBi), the directional gain of the antenna less than 6dBi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.Antenna structure please refer to the EUT internal photographs antenna photo.

Remark: The antenna gain is provided by the customer , if the data provided by the customer is not accurate, Shenzhen Bangce Testing Technology Co., Ltd. does not assume any responsibility.

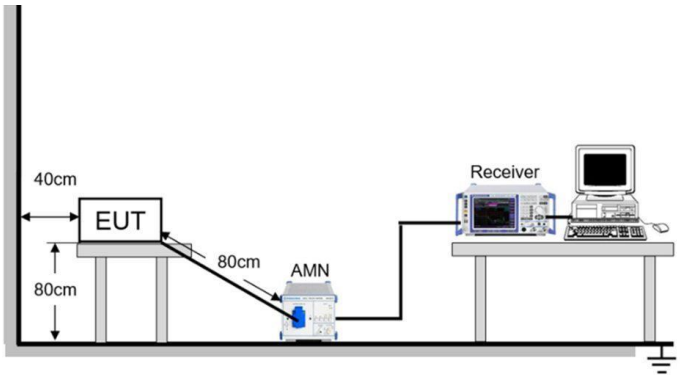
5.2. AC Conducted Emission

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μH/50 ohms line impedance stabilization network (LISN).
Test Limit:	Frequency of emission (MHz) / Conducted limit (dBμV): Quasi-peak / Average 0.15-0.5: 66 to 56* / 56 to 46* 0.5-5: 56 / 46 5-30: 60 / 50 *Decreases with the logarithm of the frequency.
Test Method:	ANSI C63.10-2020 section 6.2
Procedure:	1. The EUT was setup according to ANSI C63.10 requirements. 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. 4. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs) 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz. 8. During the above scans, the emissions were maximized by cable manipulation.

Operating Environment:					
Temperature :	22.5 °C	Humidity:	56.7 %	Atmospheric Pressure:	103 kPa

Pre test mode:	TM1, TM2, TM3
Final test mode:	TM1, TM2, TM3

Test Setup Diagram



Test Result

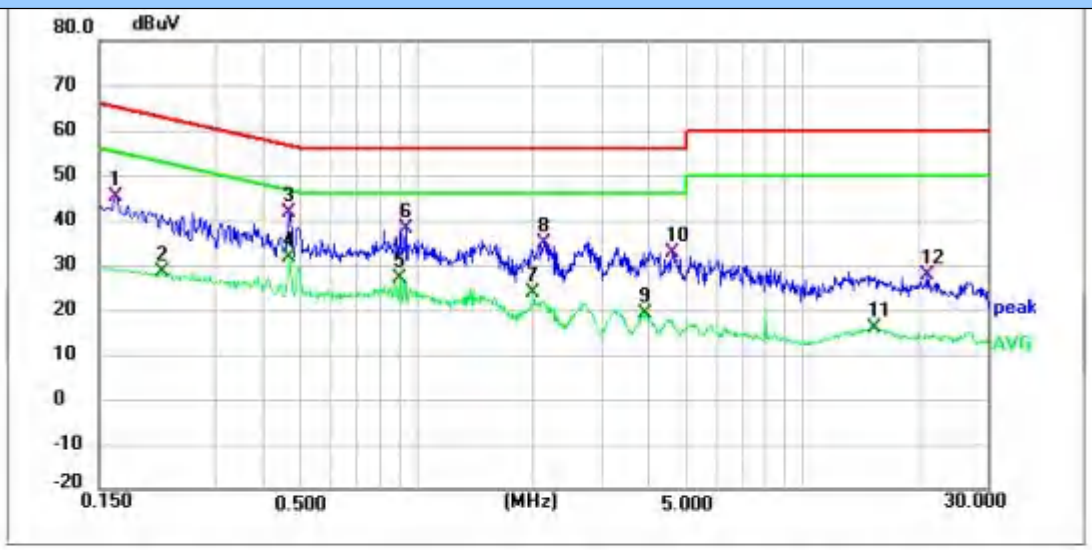
Pass

Test Data

Note:

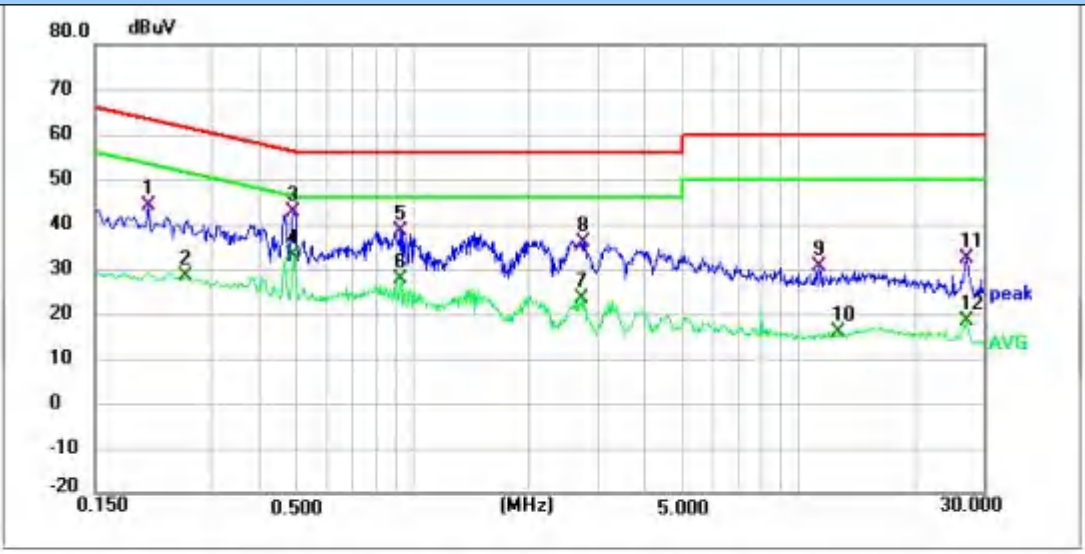
Have pre-scan all test mode, found TM3 mode which it was worst case, so only show the worst case's data on this report.

Mode3 / Line: Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.166	35.01	10.30	45.31	65.16	-19.85	QP
2	0.218	17.98	10.29	28.27	52.89	-24.62	AVG
3 *	0.466	31.28	10.32	41.60	56.58	-14.98	QP
4	0.466	21.22	10.32	31.54	46.58	-15.04	AVG
5	0.906	16.70	10.40	27.10	46.00	-18.90	AVG
6	0.934	27.56	10.40	37.96	56.00	-18.04	QP
7	2.002	13.08	10.67	23.75	46.00	-22.25	AVG
8	2.126	24.10	10.71	34.81	56.00	-21.19	QP
9	3.886	7.85	11.28	19.13	46.00	-26.87	AVG
10	4.606	21.09	11.56	32.65	56.00	-23.35	QP
11	15.374	-0.25	16.19	15.94	50.00	-34.06	AVG
12	20.930	12.16	15.47	27.63	60.00	-32.37	QP

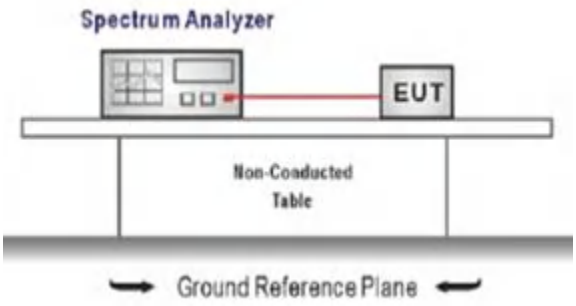
Mode3 / Line: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.206	33.64	10.29	43.93	63.37	-19.44	QP
2	0.258	18.24	10.31	28.55	51.50	-22.95	AVG
3	0.490	32.46	10.35	42.81	56.17	-13.36	QP
4 *	0.490	22.59	10.35	32.94	46.17	-13.23	AVG
5	0.926	28.05	10.40	38.45	56.00	-17.55	QP
6	0.926	17.23	10.40	27.63	46.00	-18.37	AVG
7	2.742	12.39	10.88	23.27	46.00	-22.73	AVG
8	2.770	25.10	10.89	35.99	56.00	-20.01	QP
9	11.302	16.22	14.14	30.36	60.00	-29.64	QP
10	12.714	1.07	14.75	15.82	50.00	-34.18	AVG
11	27.158	17.08	15.11	32.19	60.00	-27.81	QP
12	27.158	3.16	15.11	18.27	50.00	-31.73	AVG

Note:
1). Result = Reading +Correct (Insertion Loss + Cable Loss + Attenuator Factor)
2). Margin = Result - Limit

5.3. 20 dB Bandwidth

Limit:	--
Test configuration:	
Test procedure:	1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously 3. Use the following spectrum analyzer settings: Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW Sweep = auto, Detector function = peak, Trace = max hold 4. Measure and record the results in the test report.

Operating Environment:					
Temperature:	22.2 °C	Humidity:	56.3 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1				
Final test mode:	TM1				

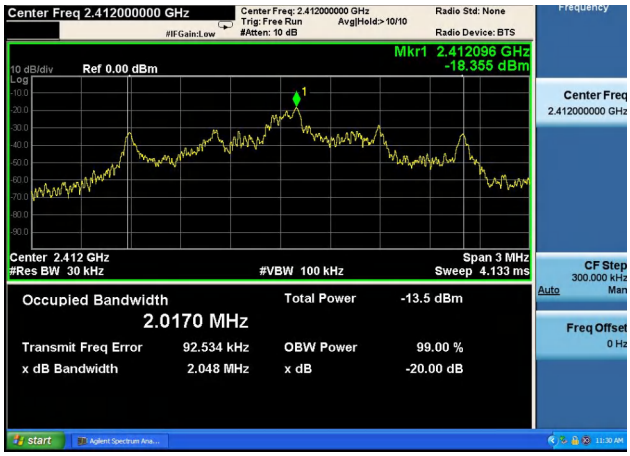
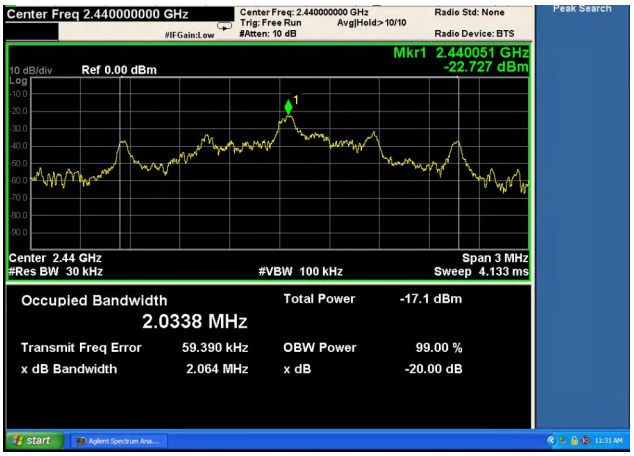
Test Setup Diagram

Test Result

Pass

Test Data

Test Result of 20dB Bandwidth Measurement		
Test Frequency(MHz)	20dB Bandwidth(MHz)	Limit(MHz)
2412	2.048	Non-Specified
2440	2.064	Non-Specified
2469	2.049	Non-Specified

20dB Bandwidth	
	
2412MHz	2440MHz
	
2469MHz	

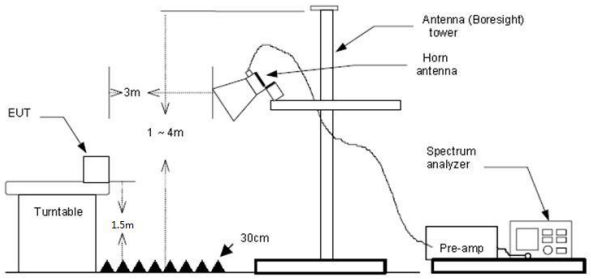
5.4. Radiated Band edge Emission

Limit:

FFCC CFR Title 47 Part 15 Subpart C Section 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.

Test configuration:

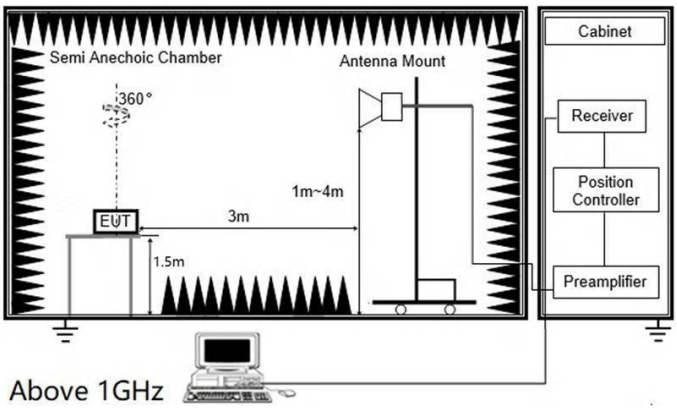


Test procedure:

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
   a) Span shall wide enough to fully capture the emission being measured
   b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
   c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
   d) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=Average, Trace=RMS for Average measurement

Operating Environment:					
Temperature:	22.2 °C	Humidity:	56.5 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

Test Setup Diagram



Test Result

Pass

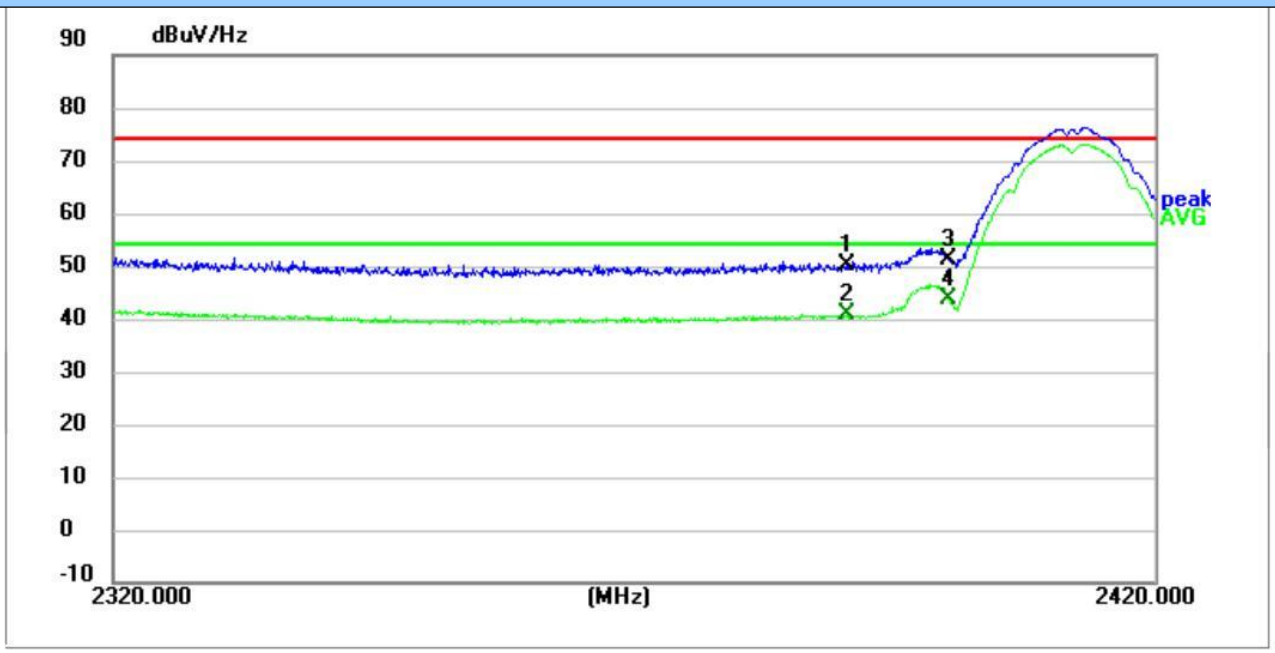
Test Data

Note:

1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
2) Margin = Limit - Level
3) Average measurement was not performed if peak level is lower than average limit
4) Have pre-scan all test mode, found TM1 mode which it was worst case, so only show the worst case’s data on this report.
5) The other emission levels were very low against the limit.

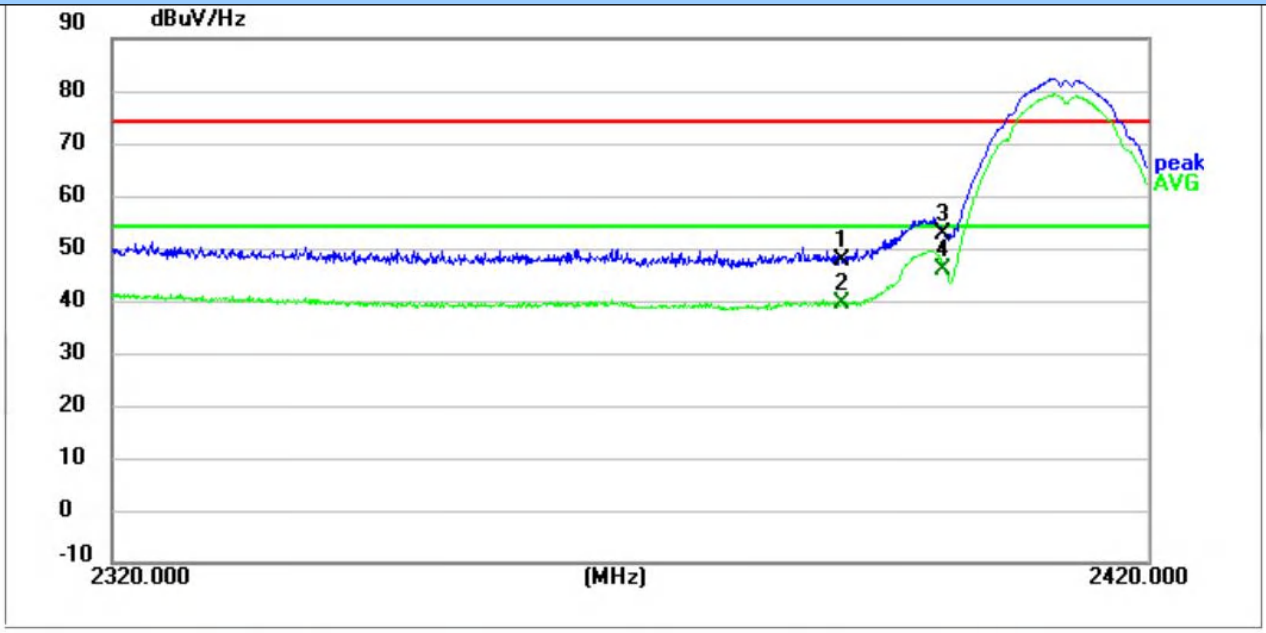
Have pre-scan all test mode, found TM1 mode which it was worst case, so only show the worst case’s data on this report.

Mode1 / Polarization: Horizontal / CH: L



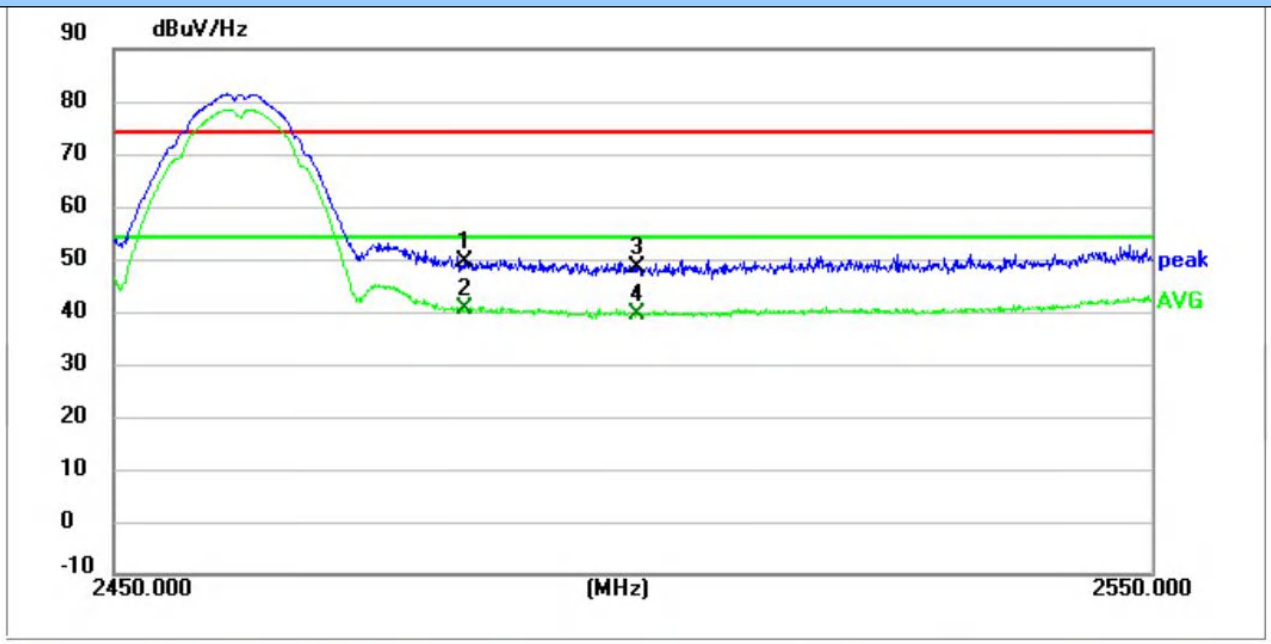
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	47.71	2.34	50.05	74.00	23.95	peak
2	2390.0000	38.40	2.34	40.74	54.00	13.26	AVG
3	2400.0000	48.83	2.38	51.21	74.00	22.79	peak
4 *	2400.0000	41.22	2.38	43.60	54.00	10.40	AVG

Mode1 / Polarization: Vertical / CH: L



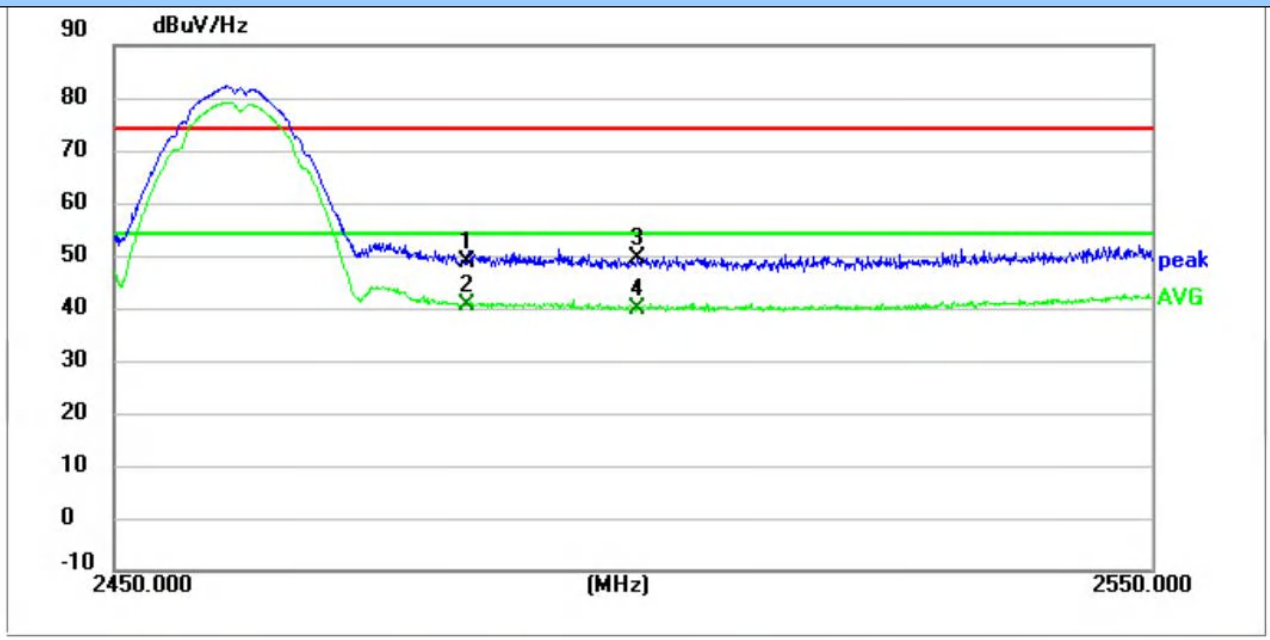
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2390.0000	45.29	2.34	47.63	74.00	26.37	peak
2	2390.0000	37.06	2.34	39.40	54.00	14.60	AVG
3	2400.0000	50.30	2.38	52.68	74.00	21.32	peak
4 *	2400.0000	43.52	2.38	45.90	54.00	8.10	AVG

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.5000	46.72	2.66	49.38	74.00	24.62	peak
2 *	2483.5000	37.82	2.66	40.48	54.00	13.52	AVG
3	2500.0000	45.61	2.80	48.41	74.00	25.59	peak
4	2500.0000	36.52	2.80	39.32	54.00	14.68	AVG

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	2483.5000	46.07	2.66	48.73	74.00	25.27	peak
2 *	2483.5000	38.00	2.66	40.66	54.00	13.34	AVG
3	2500.0000	46.58	2.80	49.38	74.00	24.62	peak
4	2500.0000	37.20	2.80	40.00	54.00	14.00	AVG

5.5. Radiated Spurious Emission

Limit:

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)

FCC CFR Title 47 Part 15 Subpart C Section 15.249

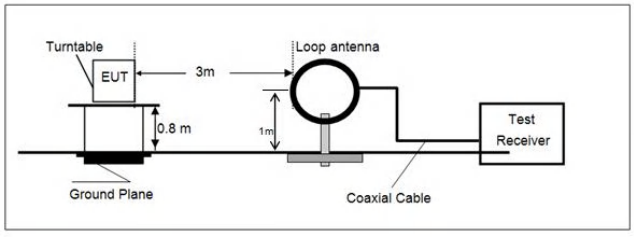
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the Antenna azimuth.

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902-928 MHz	50	500
2400-2483.5 MHz	50	500
5725-5875 MHz	50	500
24.0-24.25 GHz	250	2500

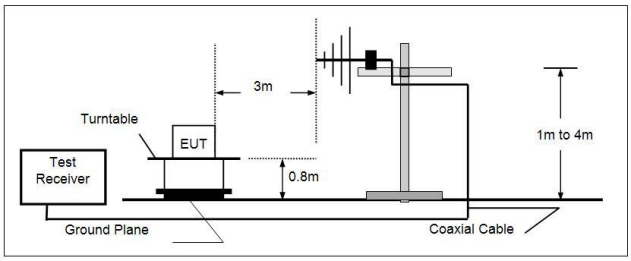
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz(Field strength of fundamental)	94.00	Average
	114.00	Peak
Above 1GHz(Field strength of harmonics)	54.00	Average
	74.00	Peak

Test configuration:

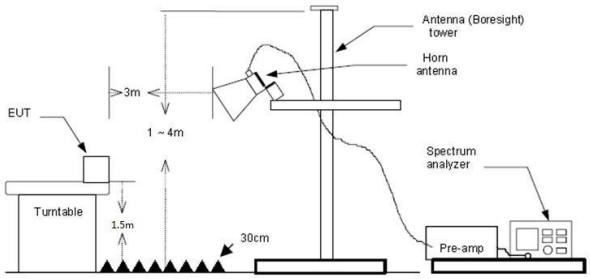
9kHz~30MHz



30 MHz ~ 1 GHz



Above 1 GHz



Test procedure:

1. The EUT was setup and tested according to ANSI C63.10.
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
   a) Span shall wide enough to fully capture the emission being measured;
   b) Below 1 GHz:
      RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
      If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
   c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
   d) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=Average, Trace=RMS for Average measurement

Operating Environment:					
Temperature :	22.2 °C	Humidity:	56.5 %	Atmospheric Pressure:	103 kPa
Pre test mode:	TM1, TM2, TM3				
Final test mode:	TM1, TM2, TM3				

Test Result

Pass

Test Data

For 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

For 30 MHz ~ 1000 MHz

Have pre-scan all test mode, found TM1 mode CH00 which it was worst case, so only show the worst case's data on this report.

Mode1 / Polarization: Horizontal / CH: L

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	53.6931	60.92	-29.97	30.95	40.00	9.05	QP
2	80.0805	60.46	-34.98	25.48	40.00	14.52	QP
3	141.3296	68.00	-34.10	33.90	43.50	9.60	QP
4	271.3245	61.80	-28.23	33.57	46.00	12.43	QP
5 *	374.6225	62.64	-25.51	37.13	46.00	8.87	QP
6	869.1300	51.97	-15.25	36.72	46.00	9.28	QP

Mode1 / Polarization: Vertical / CH: L

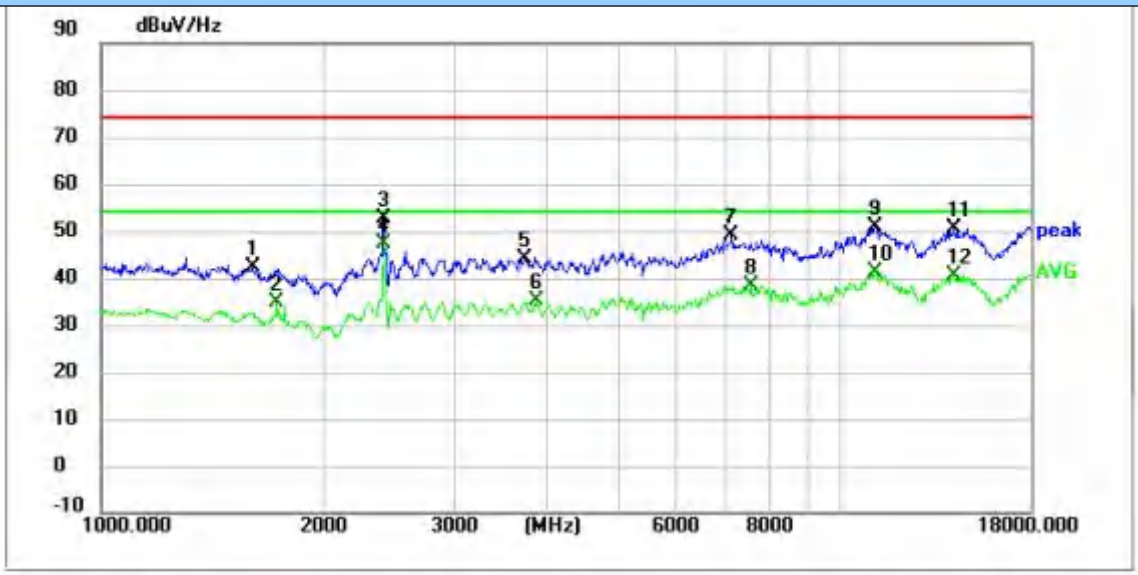
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	58.8185	61.11	-30.63	30.48	40.00	9.52	QP
2	106.7587	61.66	-30.69	30.97	43.50	12.53	QP
3	200.6880	63.40	-29.83	33.57	43.50	9.93	QP
4	312.1792	58.09	-26.84	31.25	46.00	14.75	QP
5 *	422.0577	60.87	-24.23	36.64	46.00	9.36	QP
6	574.6258	52.47	-20.03	32.44	46.00	13.56	QP

Note:
1) For 9 kHz ~ 30 MHz Measurement
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.
2) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
3) Margin = Limit – Level

For 1 GHz ~ 25 GHz

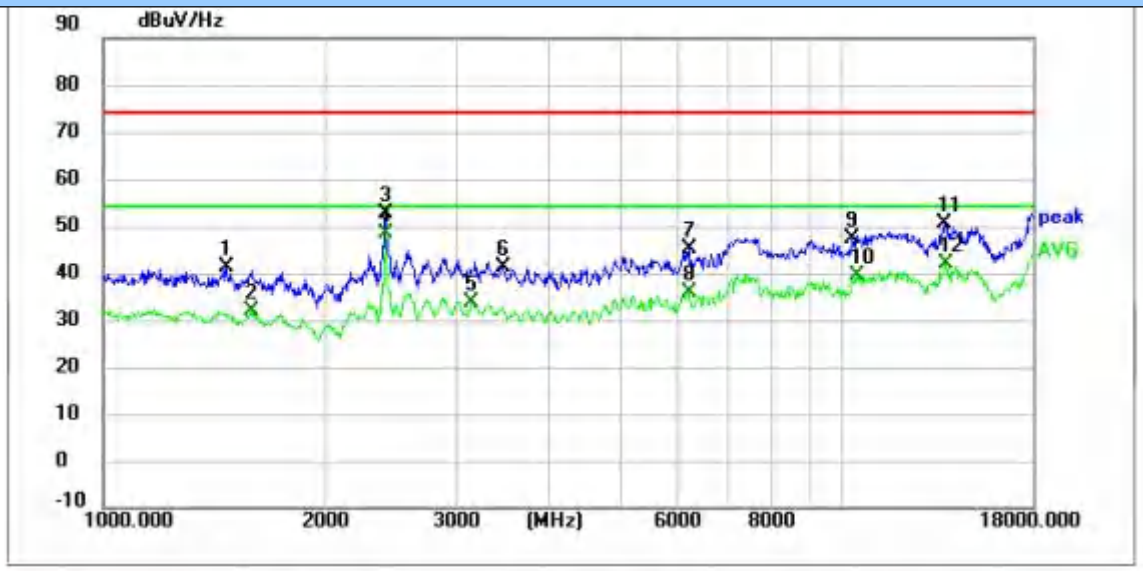
Have pre-scan all test mode, found TM1 mode which it was worst case, so only show the worst case's data on this report.

Mode1 / Polarization: Horizontal / CH: L



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1603.5000	43.68	-1.21	42.47	74.00	31.53	peak
2	1731.0000	35.63	-0.67	34.96	54.00	19.04	AVG
3	2412.7000	50.41	2.38	52.79	74.00	21.21	peak
4 *	2412.7000	45.09	2.38	47.47	54.00	6.53	AVG
5	3743.8000	37.36	6.80	44.16	74.00	29.84	peak
6	3869.6000	28.09	7.05	35.14	54.00	18.86	AVG
7	7099.6000	27.57	21.58	49.15	74.00	24.85	peak
8	7548.4000	15.64	22.67	38.31	54.00	15.69	AVG
9	11137.1000	22.84	28.11	50.95	74.00	23.05	peak
10	11137.1000	13.30	28.11	41.41	54.00	12.59	AVG
11	14220.9000	61.21	-10.54	50.67	74.00	23.33	peak
12	14220.9000	51.19	-10.54	40.65	54.00	13.35	AVG

Mode1 / Polarization: Vertical / CH: L

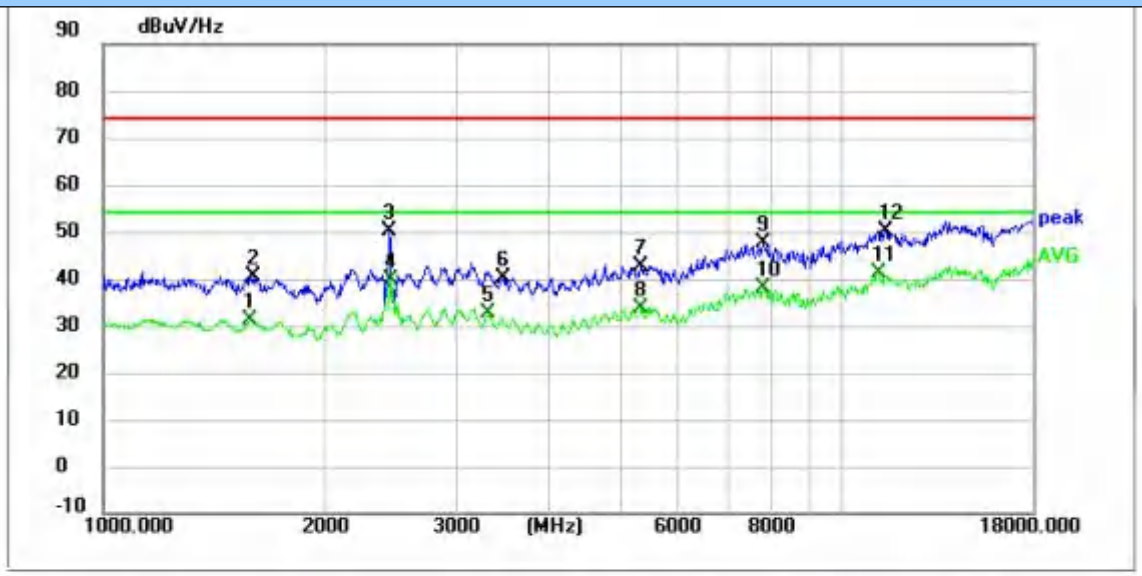


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1467.5000	42.59	-1.33	41.26	74.00	32.74	peak
2	1586.5000	33.06	-1.27	31.79	54.00	22.21	AVG
3	2412.7000	50.14	2.38	52.52	74.00	21.48	peak
4 *	2412.7000	45.98	2.38	48.36	54.00	5.64	AVG
5	3159.0000	27.18	6.40	33.58	54.00	20.42	AVG
6	3482.0000	35.00	6.17	41.17	74.00	32.83	peak
7	6195.2000	28.69	16.50	45.19	74.00	28.81	peak
8	6195.2000	19.48	16.50	35.98	54.00	18.02	AVG
9	10297.3000	21.41	26.01	47.42	74.00	26.58	peak
10	10446.9000	13.38	26.21	39.59	54.00	14.41	AVG
11	13755.1000	61.59	-11.19	50.40	74.00	23.60	peak
12	13777.2000	53.27	-11.18	42.09	54.00	11.91	AVG

Test channel:2412MHz

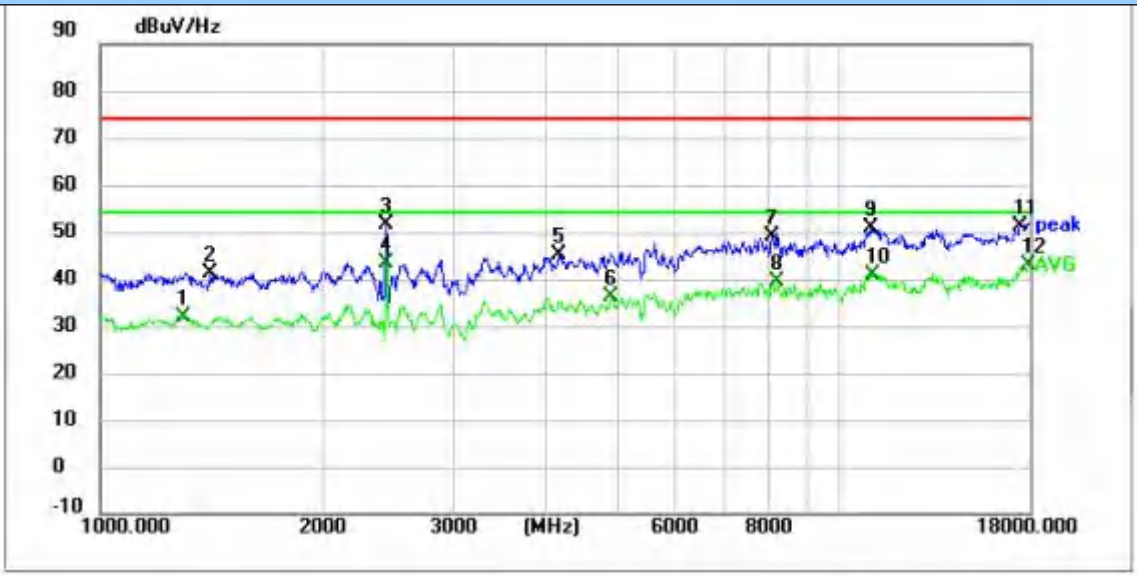
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)	Level (dBuv)	Limit (dBuV/m)	Margin (dB)	Remark	Polarity
2412.00	92.40	29.18	4.02	38.35	-5.15	87.25	114	26.75	Peak	Horizontal
2412.00	80.17	29.18	4.02	38.35	-5.15	75.02	94	18.98	Average	Horizontal
2412.00	81.56	29.18	4.02	38.35	-5.15	76.41	114	37.59	Peak	Vertical
2412.00	67.05	29.18	4.02	38.35	-5.15	61.90	94	32.10	Average	Vertical

Mode1 / Polarization: Horizontal / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1583.1000	32.54	-1.27	31.27	54.00	22.73	AVG
2	1595.0000	41.92	-1.24	40.68	74.00	33.32	peak
3	2439.9000	47.70	2.39	50.09	74.00	23.91	peak
4	2443.3000	37.43	2.39	39.82	54.00	14.18	AVG
5	3320.5000	26.11	6.43	32.54	54.00	21.46	AVG
6	3470.1000	34.11	6.21	40.32	74.00	33.68	peak
7	5333.3000	29.16	13.63	42.79	74.00	31.21	peak
8	5333.3000	20.16	13.63	33.79	54.00	20.21	AVG
9	7806.8000	25.43	22.10	47.53	74.00	26.47	peak
10	7806.8000	16.10	22.10	38.20	54.00	15.80	AVG
11 *	11143.9000	13.05	28.11	41.16	54.00	12.84	AVG
12	11429.5000	21.88	28.29	50.17	74.00	23.83	peak

Mode1 / Polarization: Vertical / CH: M

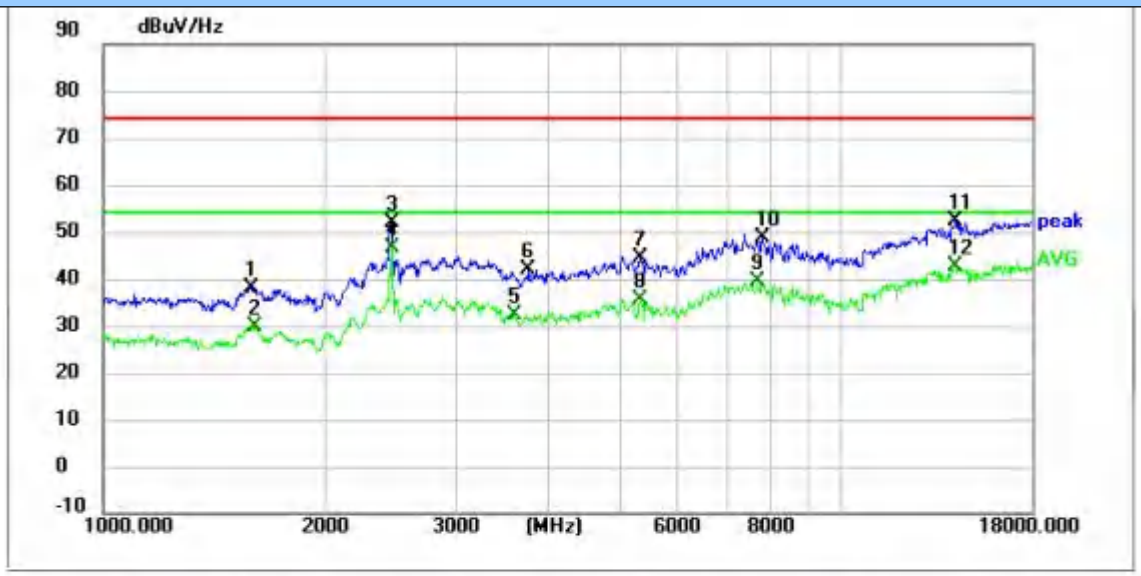


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1297.5000	33.57	-1.61	31.96	54.00	22.04	AVG
2	1411.4000	42.67	-1.59	41.08	74.00	32.92	peak
3	2434.8000	49.15	2.39	51.54	74.00	22.46	peak
4 *	2439.9000	40.95	2.39	43.34	54.00	10.66	AVG
5	4179.0000	37.49	7.84	45.33	74.00	28.67	peak
6	4903.2000	24.68	11.41	36.09	54.00	17.91	AVG
7	8099.2000	26.47	22.81	49.28	74.00	24.72	peak
8	8233.5000	16.55	22.76	39.31	54.00	14.69	AVG
9	10999.4000	22.63	28.10	50.73	74.00	23.27	peak
10	11106.5000	12.90	28.07	40.97	54.00	13.03	AVG
11	17529.1000	62.64	-11.38	51.26	74.00	22.74	peak
12	17996.6000	51.91	-8.92	42.99	54.00	11.01	AVG

Test channel:2440MHz

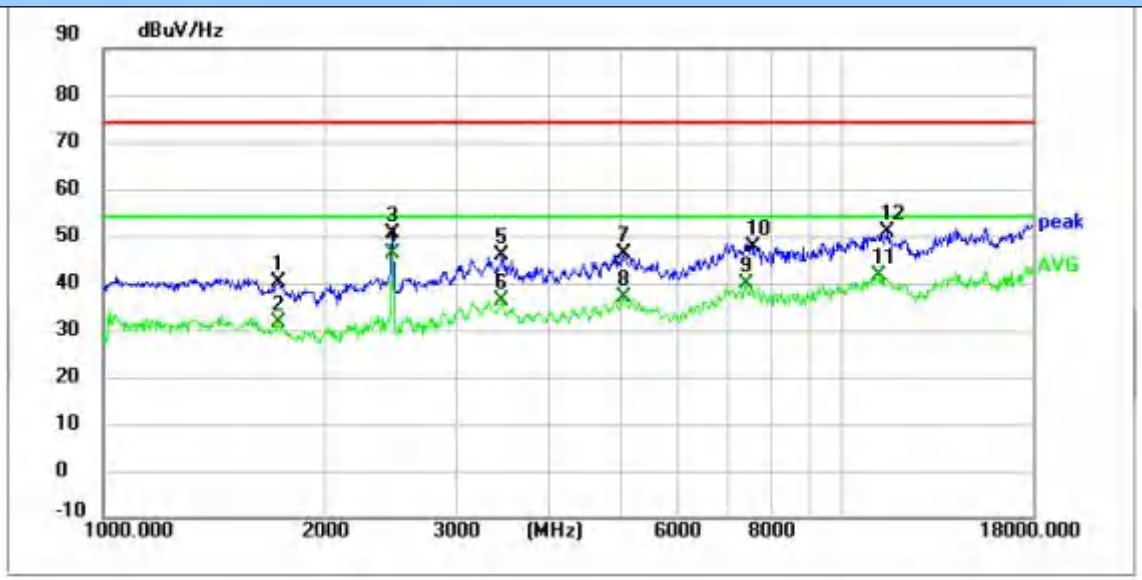
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)	Level (dBuv)	Limit (dBuV/m)	Margin (dB)	Remark	Polarity
2440.00	90.70	29.23	4.02	38.2	-4.95	85.75	114	28.25	Peak	Horizontal
2440.00	80.43	29.23	4.02	38.2	-4.95	75.48	94	18.52	Average	Horizontal
2440.00	82.92	29.23	4.02	38.2	-4.95	77.97	114	36.03	Peak	Vertical
2440.00	68.24	29.23	4.02	38.2	-4.95	63.29	94	30.71	Average	Vertical

Mode1 / Polarization: Horizontal / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1589.9000	39.37	-1.25	38.12	74.00	35.88	peak
2	1606.9000	31.08	-1.21	29.87	54.00	24.13	AVG
3	2462.0000	49.62	2.49	52.11	74.00	21.89	peak
4 *	2462.0000	44.25	2.49	46.74	54.00	7.26	AVG
5	3599.3000	26.05	6.34	32.39	54.00	21.61	AVG
6	3759.1000	35.12	6.80	41.92	74.00	32.08	peak
7	5329.9000	30.67	13.65	44.32	74.00	29.68	peak
8	5329.9000	21.98	13.65	35.63	54.00	18.37	AVG
9	7679.3000	16.71	22.66	39.37	54.00	14.63	AVG
10	7801.7000	26.62	22.06	48.68	74.00	25.32	peak
11	14229.4000	62.87	-10.55	52.32	74.00	21.68	peak
12	14229.4000	53.39	-10.55	42.84	54.00	11.16	AVG

Mode1 / Polarization: Vertical / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV/Hz)	Limit (dBuV/Hz)	Margin (dB)	Detector
1	1722.5000	41.02	-0.73	40.29	74.00	33.71	peak
2	1731.0000	32.44	-0.67	31.77	54.00	22.23	AVG
3	2462.0000	48.11	2.49	50.60	74.00	23.40	peak
4 *	2462.0000	43.84	2.49	46.33	54.00	7.67	AVG
5	3458.2000	39.68	6.24	45.92	74.00	28.08	peak
6	3458.2000	30.07	6.24	36.31	54.00	17.69	AVG
7	5064.7000	33.28	13.03	46.31	74.00	27.69	peak
8	5064.7000	23.90	13.03	36.93	54.00	17.07	AVG
9	7400.5000	17.60	22.12	39.72	54.00	14.28	AVG
10	7548.4000	25.14	22.67	47.81	74.00	26.19	peak
11	11142.2000	13.35	28.11	41.46	54.00	12.54	AVG
12	11444.8000	22.54	28.28	50.82	74.00	23.18	peak

Test channel:2469MHz

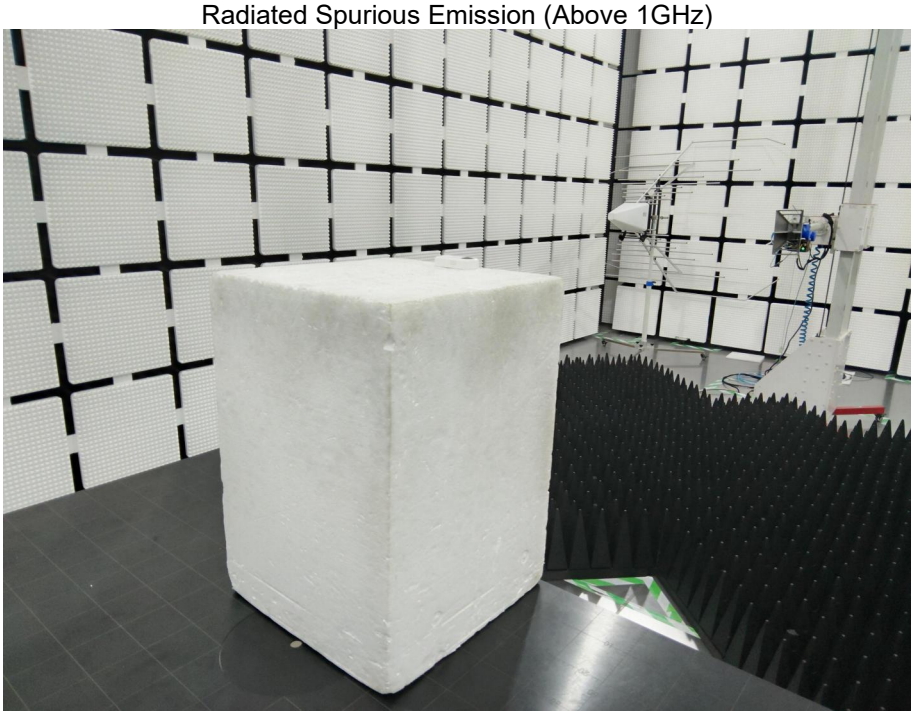
Freq. (MHz)	Reading (dBuv)	Ant. Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)	Level (dBuv)	Limit (dBuV/m)	Margin (dB)	Remark	Polarity
2469.00	94.52	29.2	4.02	38.3	-5.08	89.47	114	24.53	Peak	Horizontal
2469.00	80.30	29.2	4.02	38.3	-5.08	75.27	94	18.73	Average	Horizontal
2469.00	83.10	29.2	4.02	38.3	-5.08	78.02	114	35.98	Peak	Vertical
2469.00	67.45	29.2	4.02	38.3	-5.08	62.37	94	31.63	Average	Vertical

Note:
1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
2) Margin = Limit – Level
3) Average measurement was not performed if peak level is lower than average limit (54dBuV/m) for above 1GHz.
4) Because the test data for the 18-25G frequency band was too low, it failed to be reflected.

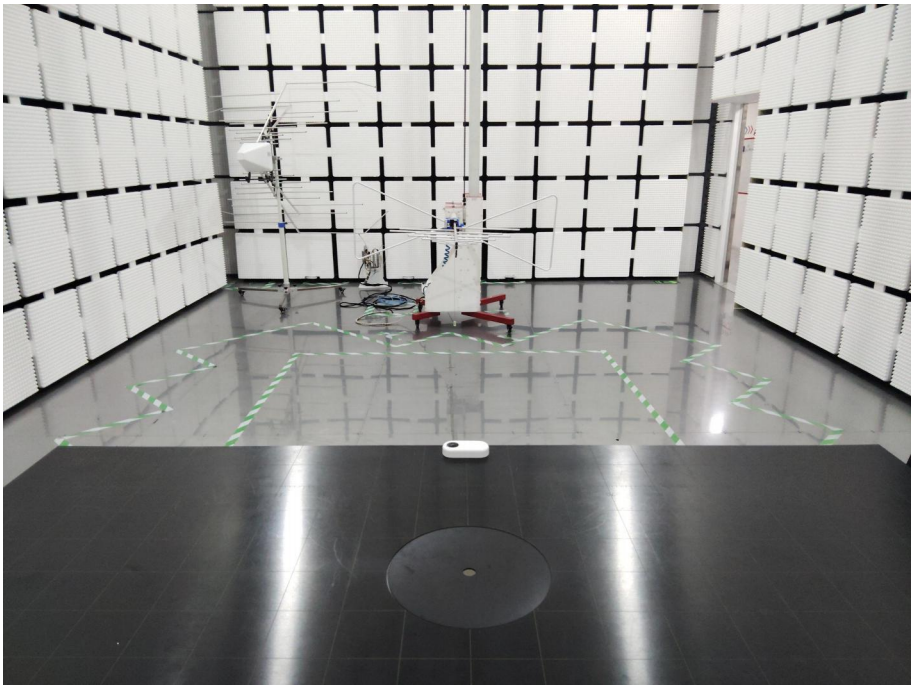
6. TEST SETUP PHOTOS

Conducted Emission at AC power line

Radiated band edge emission
Radiated Spurious Emission (Above 1GHz)

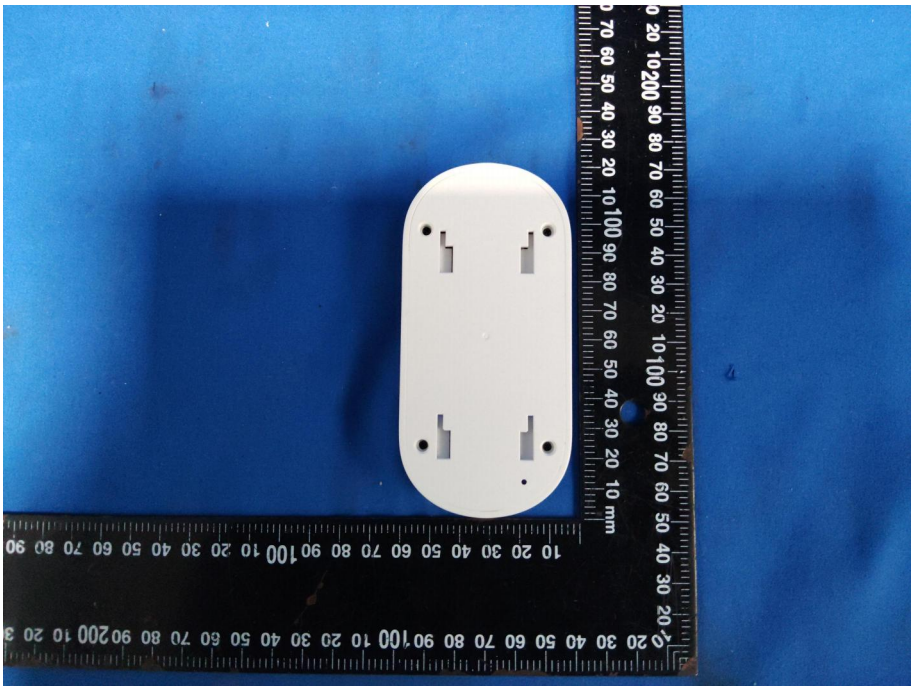


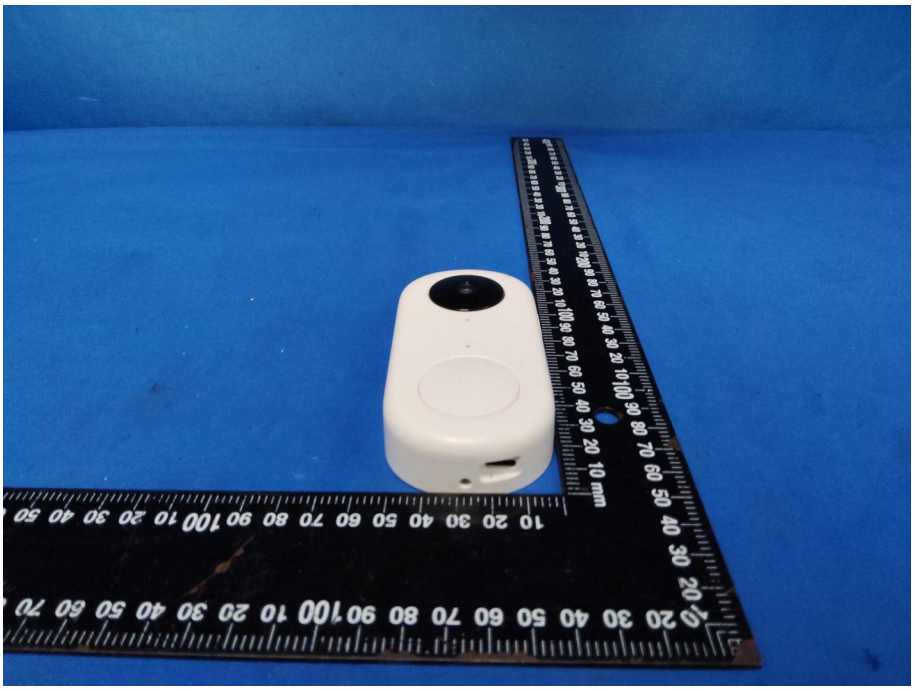
Radiated Spurious Emission (below 1GHz)

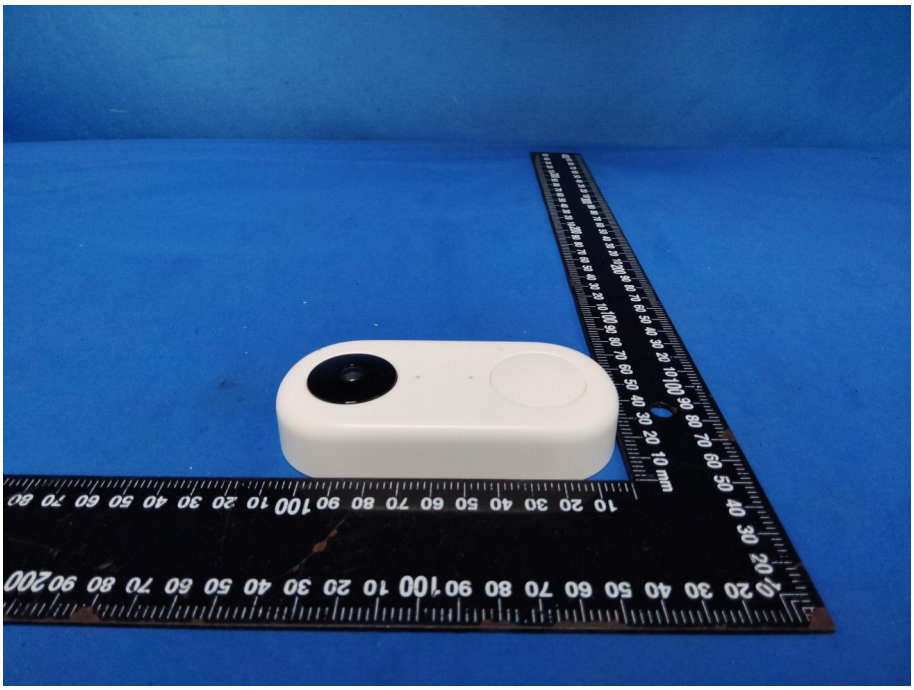


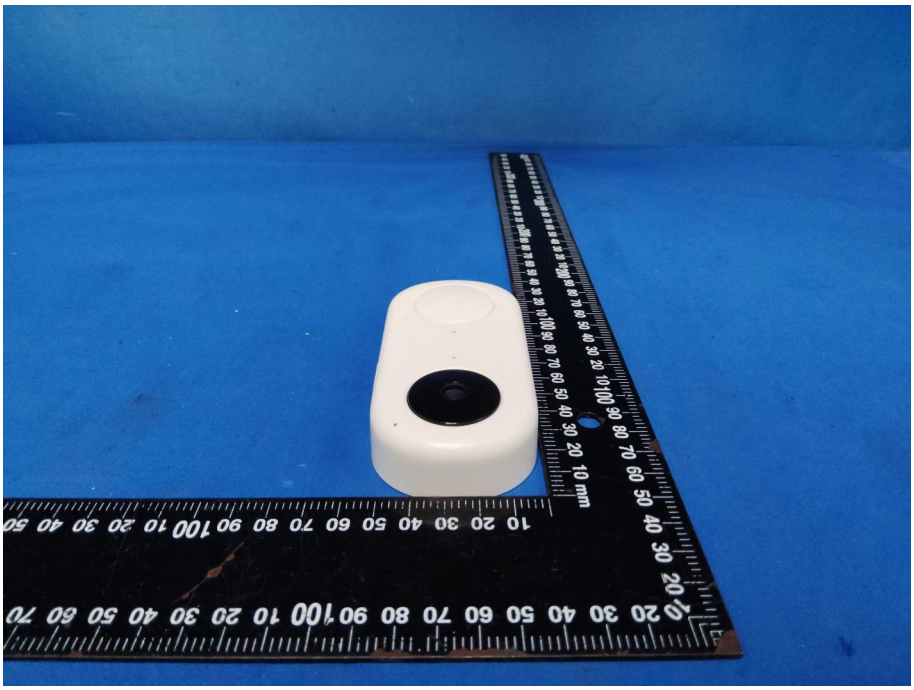
7. EXTERNAL AND INTERNAL PHOTOS

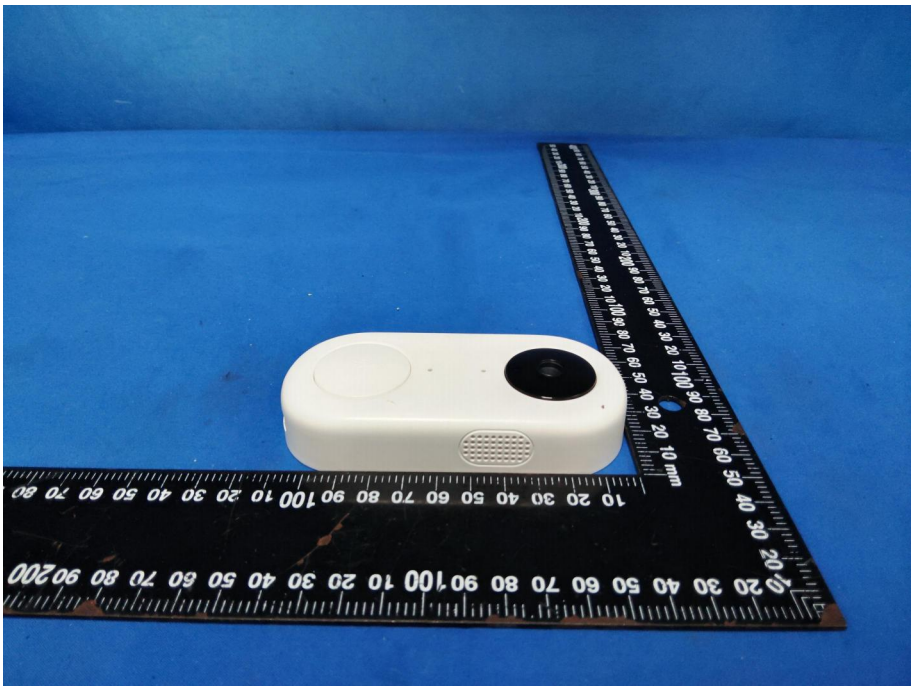
6.1 External photos



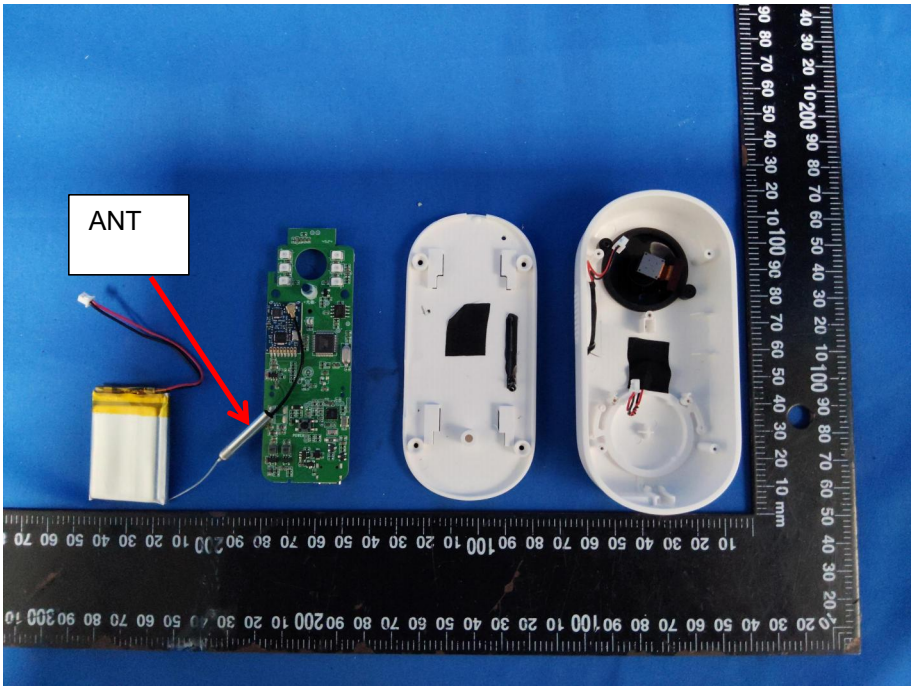


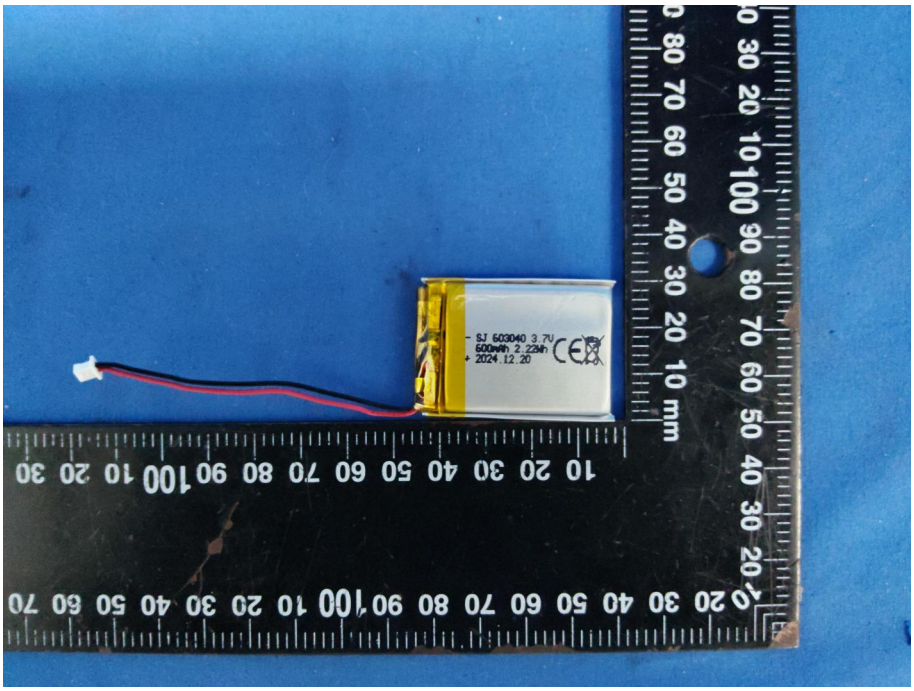


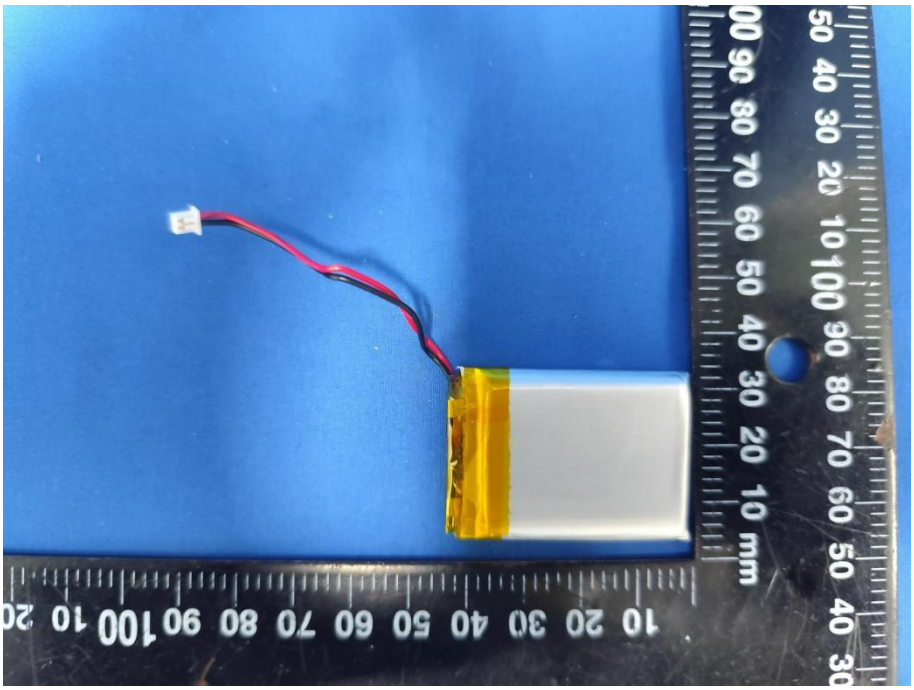


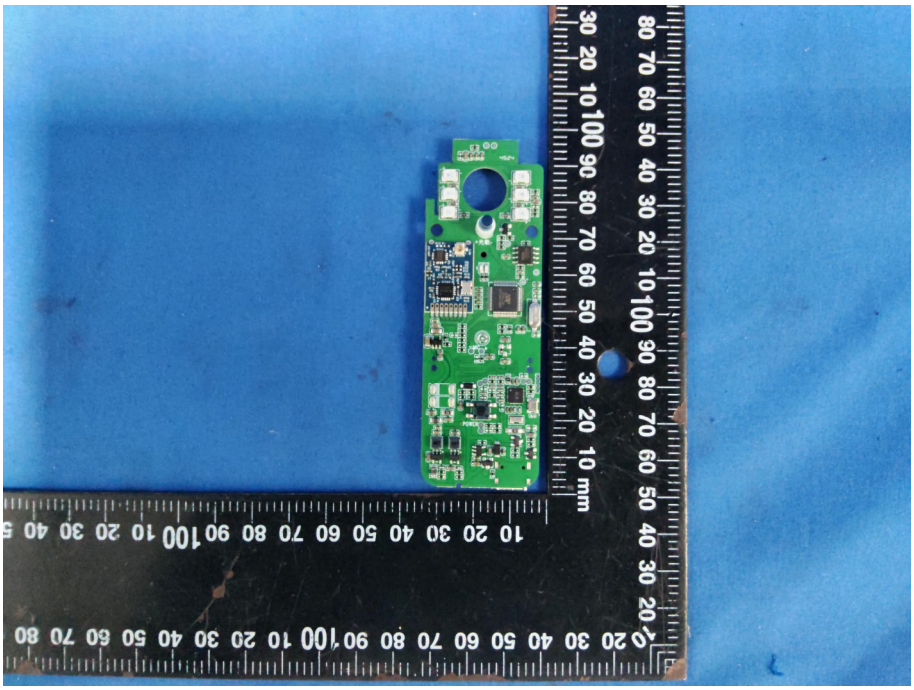


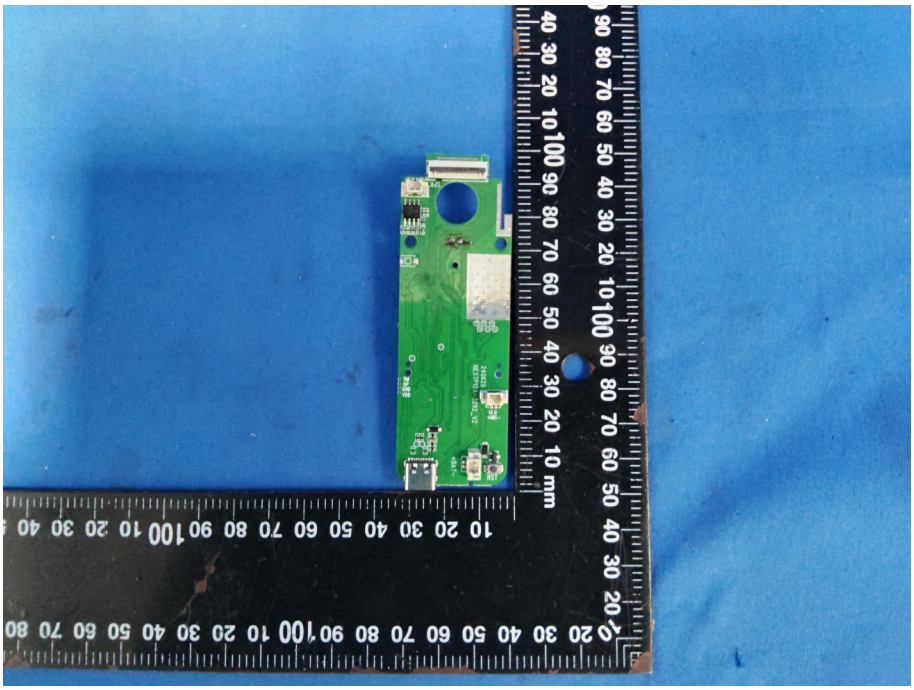
6.2 Internal photos

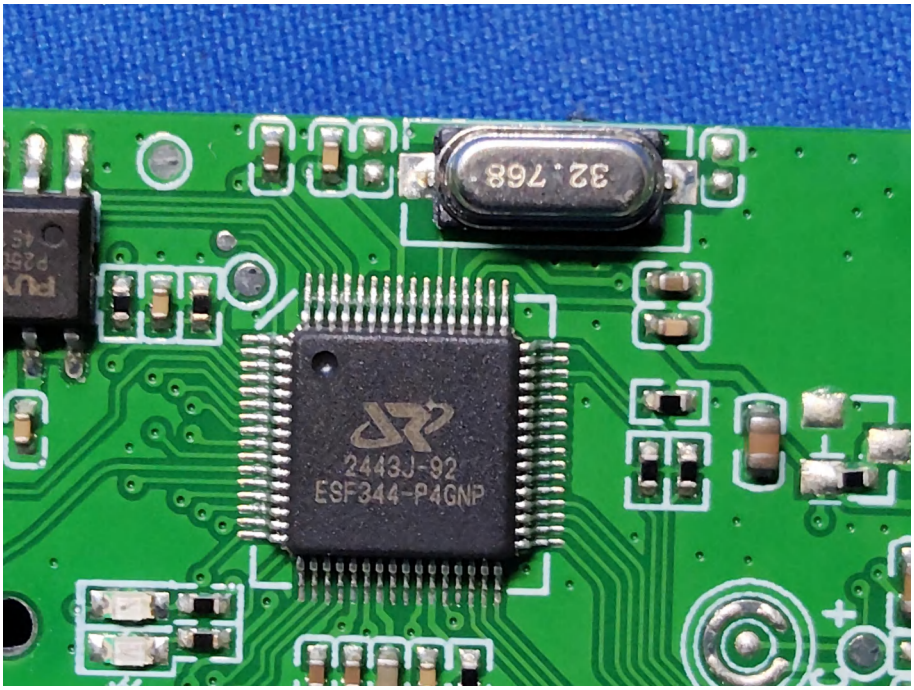


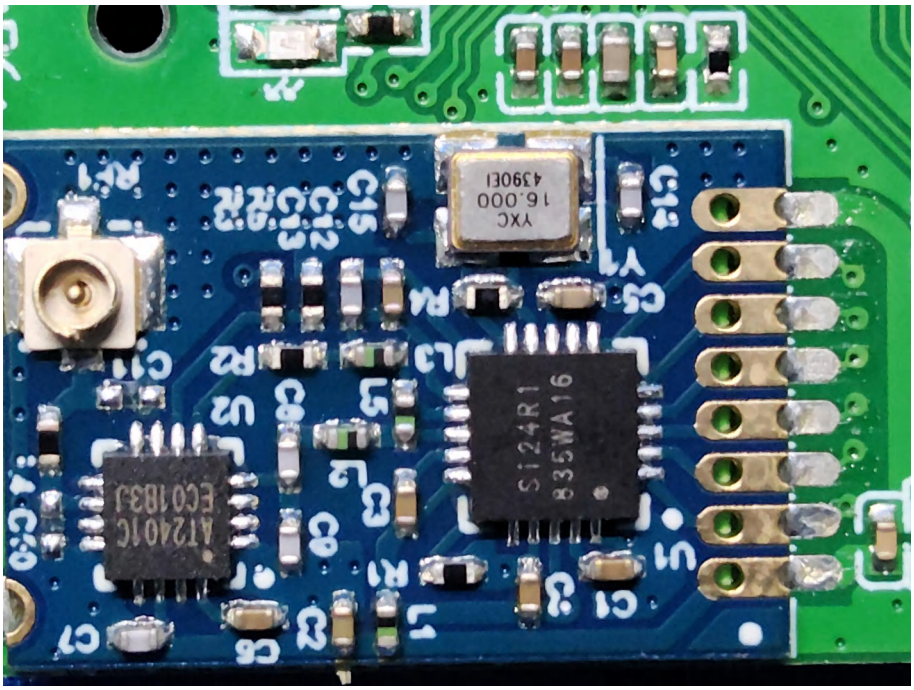


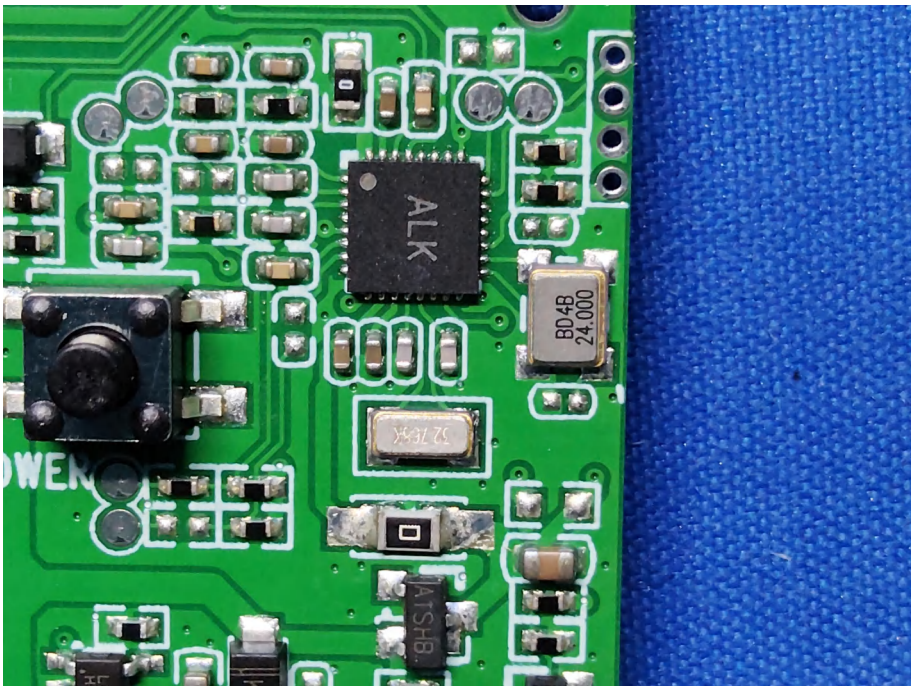







32.768
2443J-92
ESF344-P4GNP





------End of the report------