

	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2410MHz), the middle channel (2441.5MHz), the Highest channel (2473MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Transmitting mode
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Results:	Pass

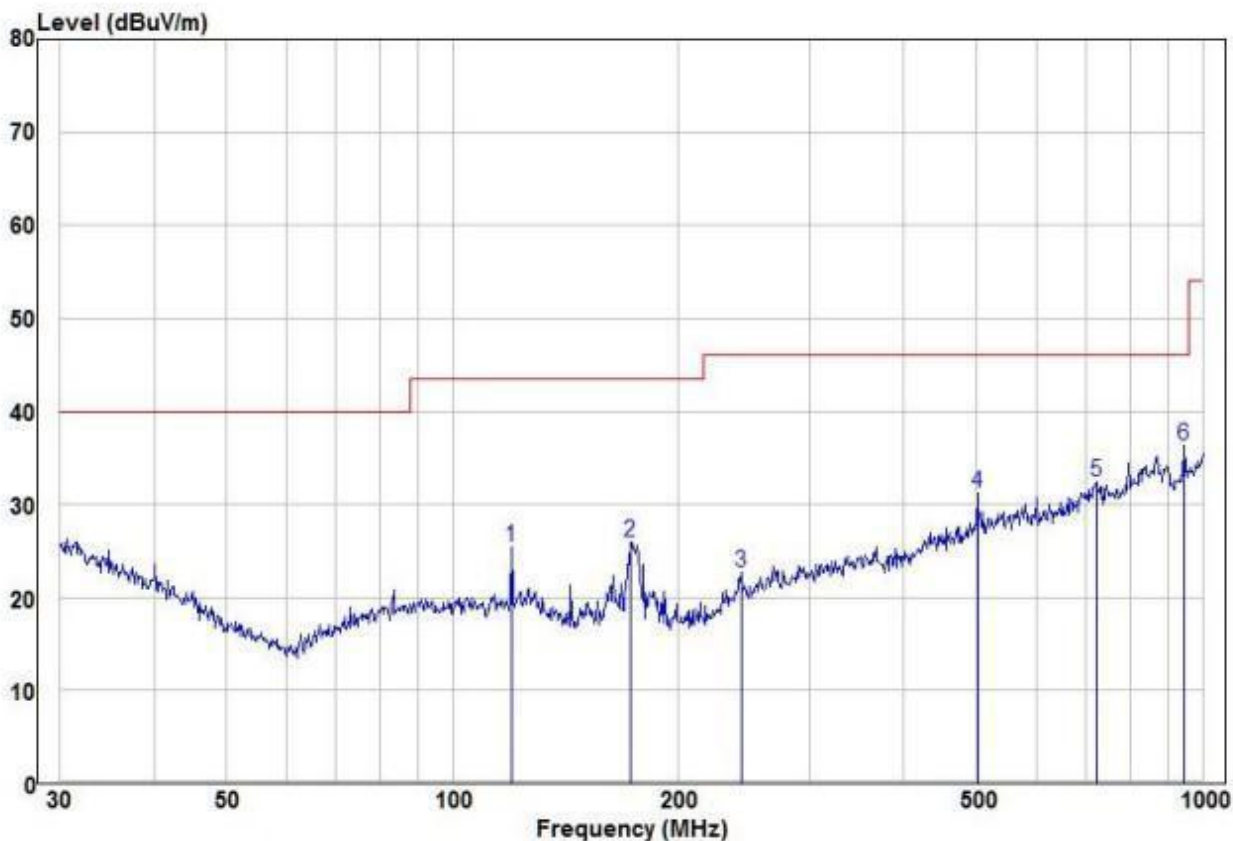
5.10.1 Radiated Emission below 1GHz

30MHz~1GHz

Test mode:

Transmitting

Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	119.86	14.77	10.69	25.46	43.50	-18.04	Peak	VERTICAL
2	172.60	18.20	7.80	26.00	43.50	-17.50	Peak	VERTICAL
3	242.53	10.89	11.74	22.63	46.00	-23.37	Peak	VERTICAL
4	501.18	12.87	18.29	31.16	46.00	-14.84	Peak	VERTICAL
5	721.73	11.26	21.23	32.49	46.00	-13.51	Peak	VERTICAL
6 pp	945.44	12.67	23.62	36.29	46.00	-9.71	Peak	VERTICAL

Remark:

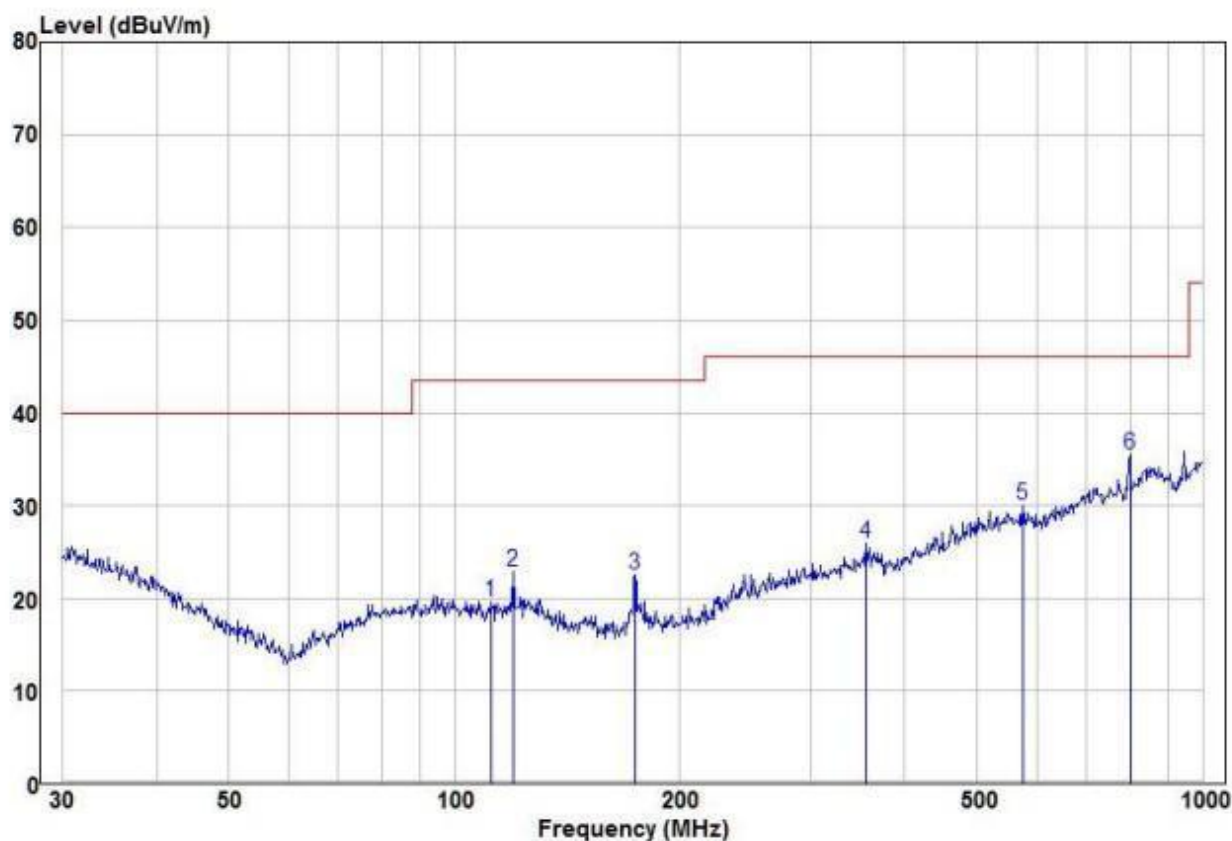
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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	Freq	Read		Limit	Over		
	MHz	Level	Factor	Level	Line	Limit	Remark
		dBuV	dB/m	dBuV/m	dBuV/m	dB	Pol/Phase
1	112.13	9.30	10.29	19.59	43.50	-23.91	Peak
2	119.86	12.10	10.69	22.79	43.50	-20.71	Peak
3	174.42	14.62	7.94	22.56	43.50	-20.94	Peak
4	355.43	10.93	15.08	26.01	46.00	-19.99	Peak
5	574.63	10.96	19.04	30.00	46.00	-16.00	Peak
6 pp	798.98	13.23	22.31	35.54	46.00	-10.46	Peak

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

5.10.2 Transmitter Emission above 1GHz

Worse case mode:		GFSK		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2390	53.29	-9.2	44.09	74	-29.91	Peak	H
2400	55.46	-9.39	46.07	74	-27.93	Peak	H
4820	51.94	-4.33	47.61	74	-26.39	Peak	H
7230	50.29	1.01	51.30	74	-22.70	Peak	H
2390	55.23	-9.2	46.03	74	-27.97	Peak	V
2400	55.18	-9.39	45.79	74	-28.21	Peak	V
4820	53.84	-4.33	49.51	74	-24.49	Peak	V
7230	50.03	1.01	51.04	74	-22.96	Peak	V

Worse case mode:		GFSK		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
4883	52.55	-4.11	48.44	74	-25.56	peak	H
7324.5	49.68	1.51	51.19	74	-22.81	peak	H
4883	51.43	-4.11	47.32	74	-26.68	peak	V
7324.5	49.19	1.51	50.70	74	-23.30	peak	V

Worse case mode:		GFSK		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2483.5	56.34	-9.29	47.05	74	-26.95	Peak	H
4946	50.41	-4.04	46.37	74	-27.63	Peak	H
7419	51.00	1.57	52.57	74	-21.43	Peak	H
2483.5	55.35	-9.29	46.06	74	-27.94	Peak	V
4946	48.66	-4.04	44.62	74	-29.38	Peak	V
7419	48.50	1.57	50.07	74	-23.93	Peak	V

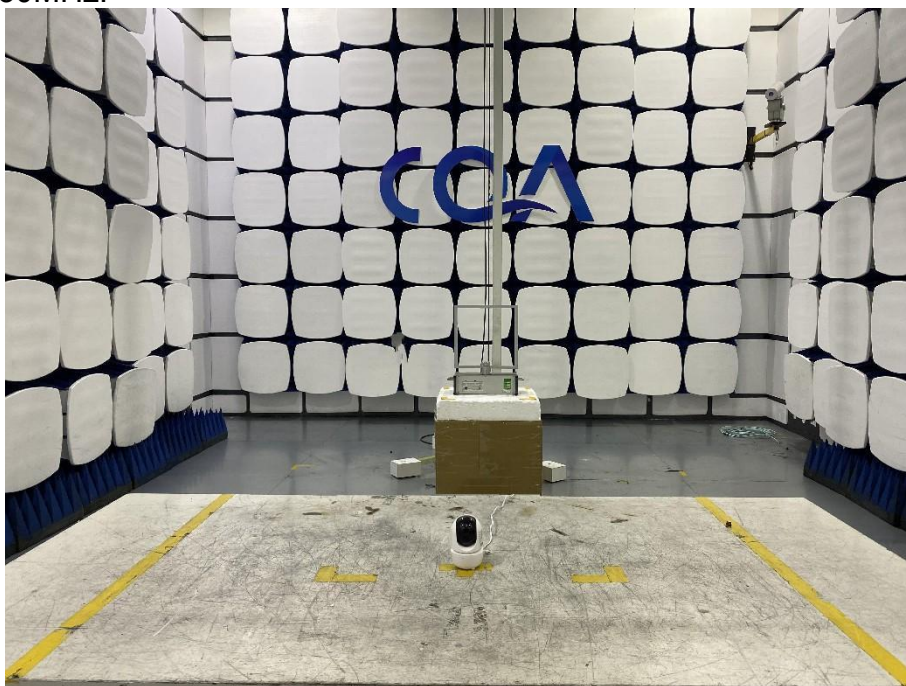
Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

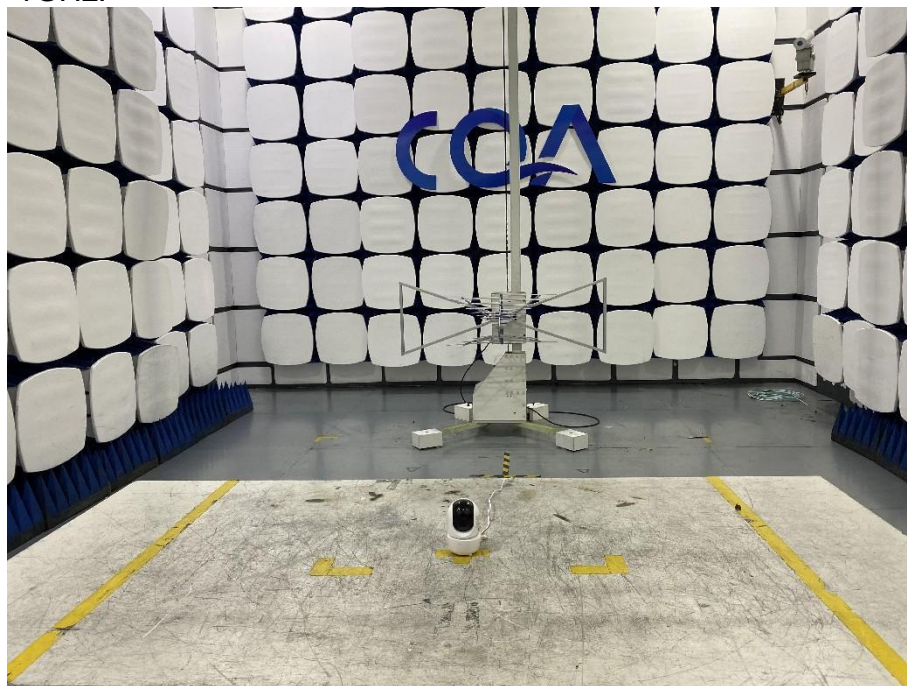
6 Photographs - EUT Test Setup

6.1 Radiated Emission

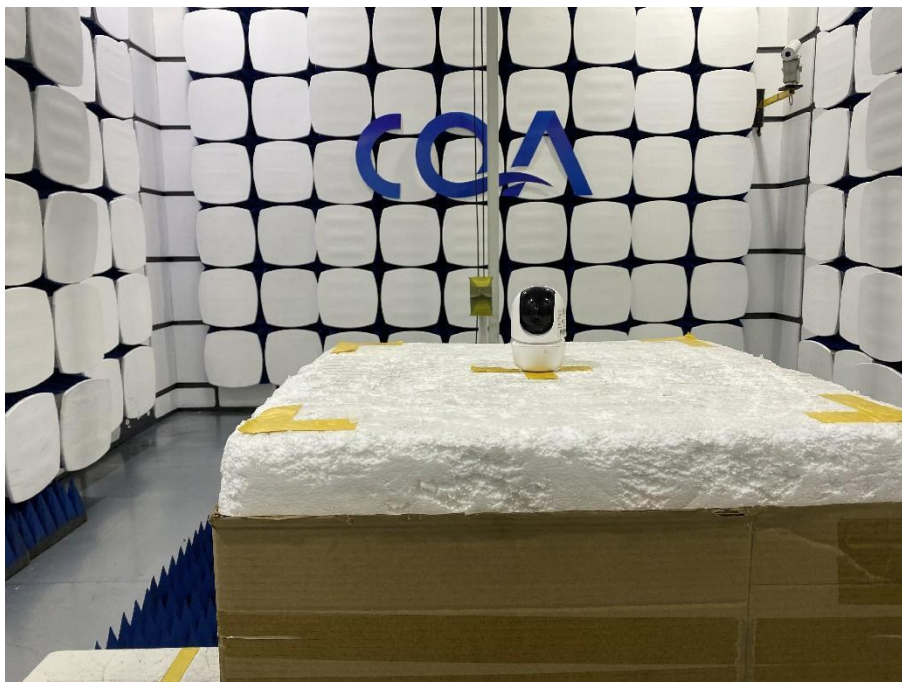
9KHz~30MHz:



30MHz~1GHz:



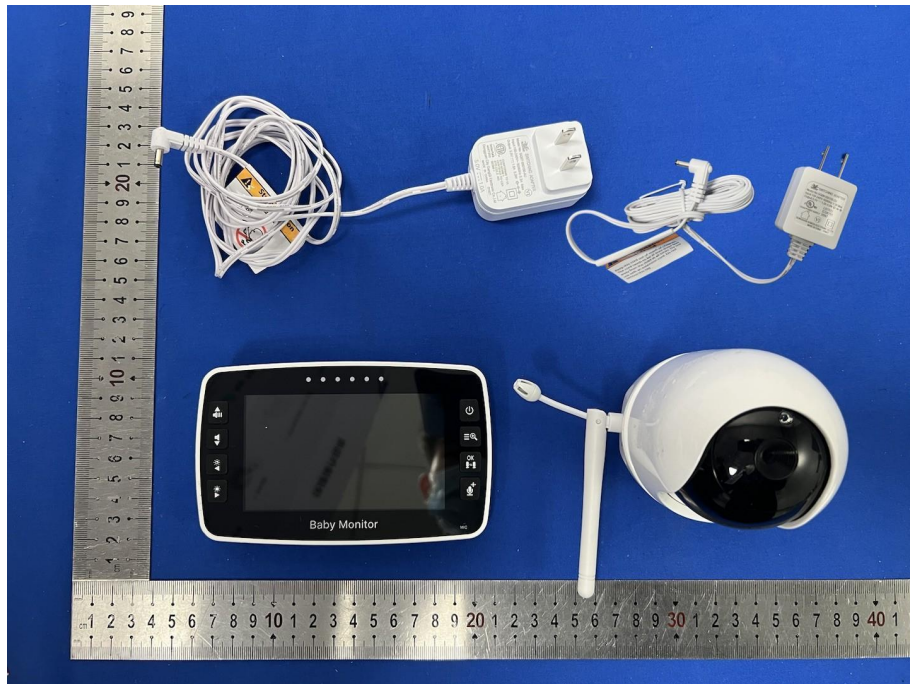
Above 1GHz:

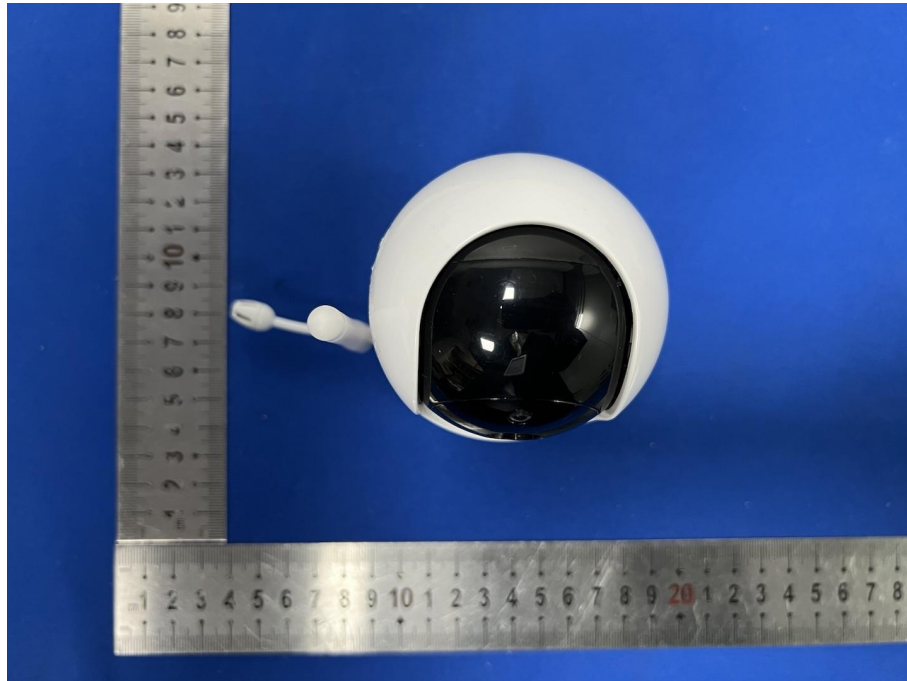


6.2 Conducted Emission



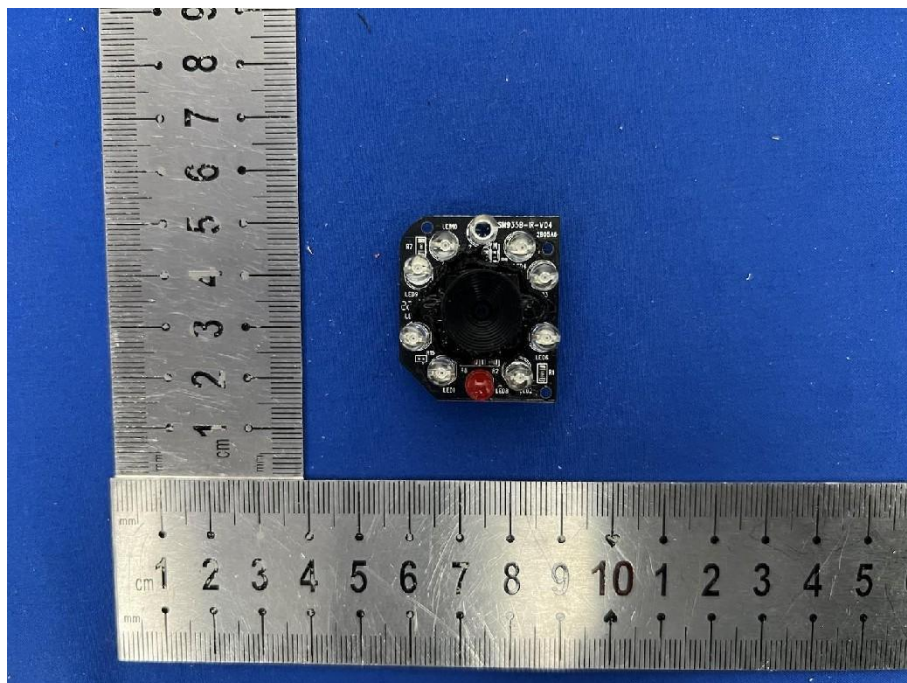
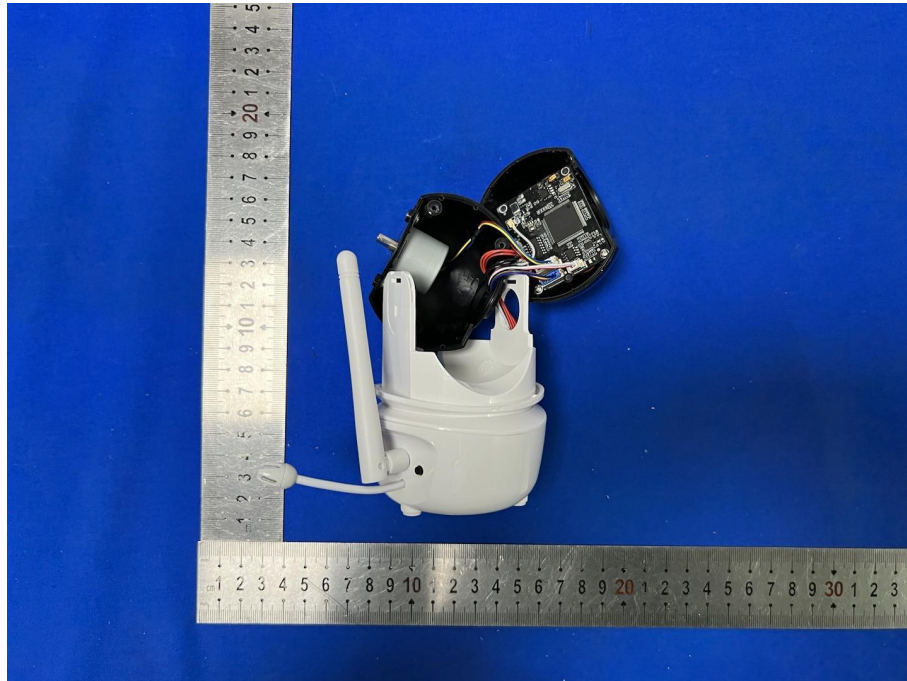
7 Photographs - EUT Constructional Details

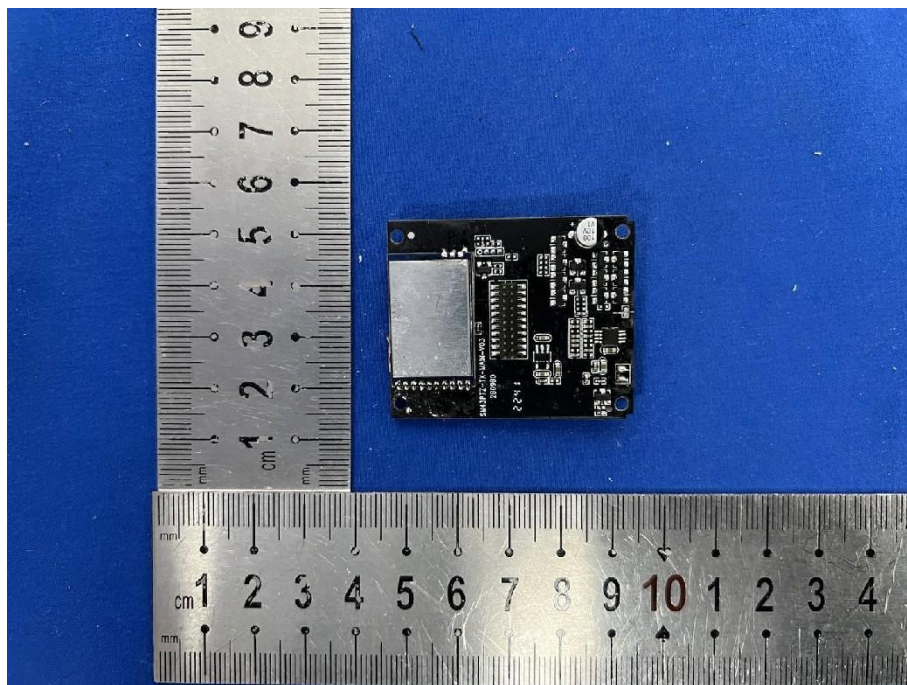
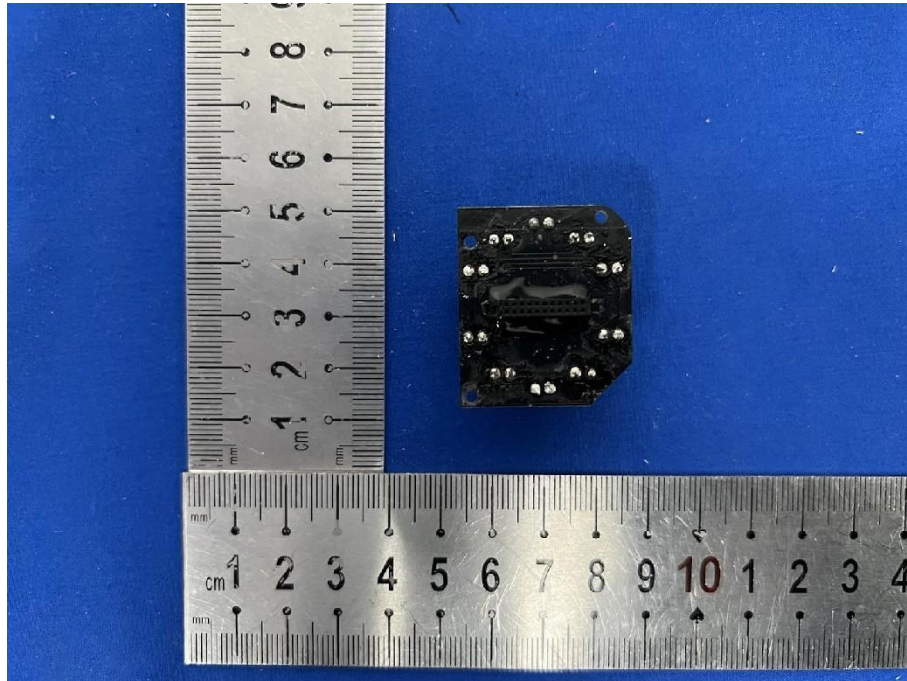


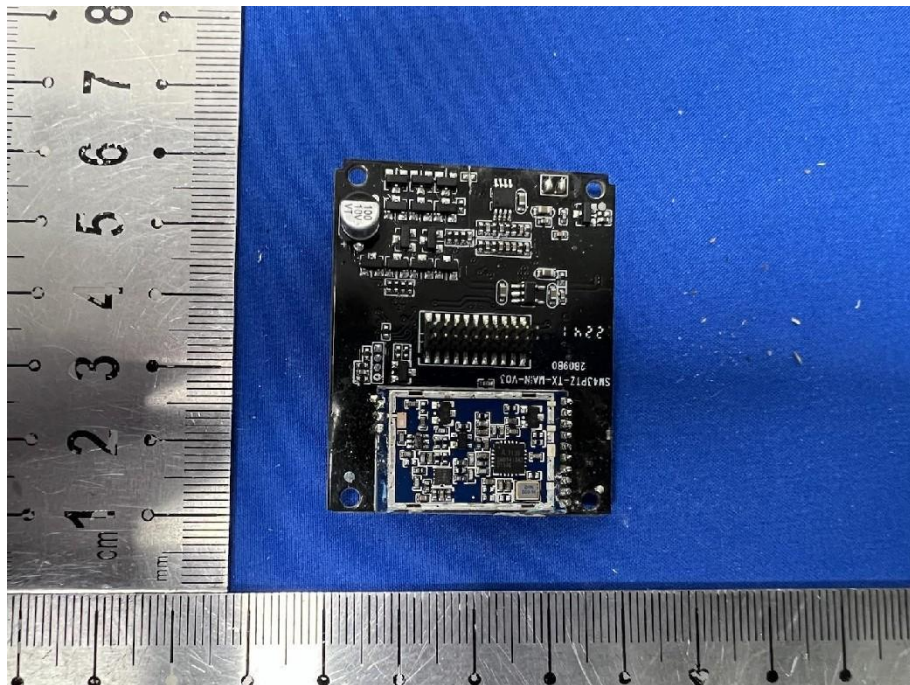
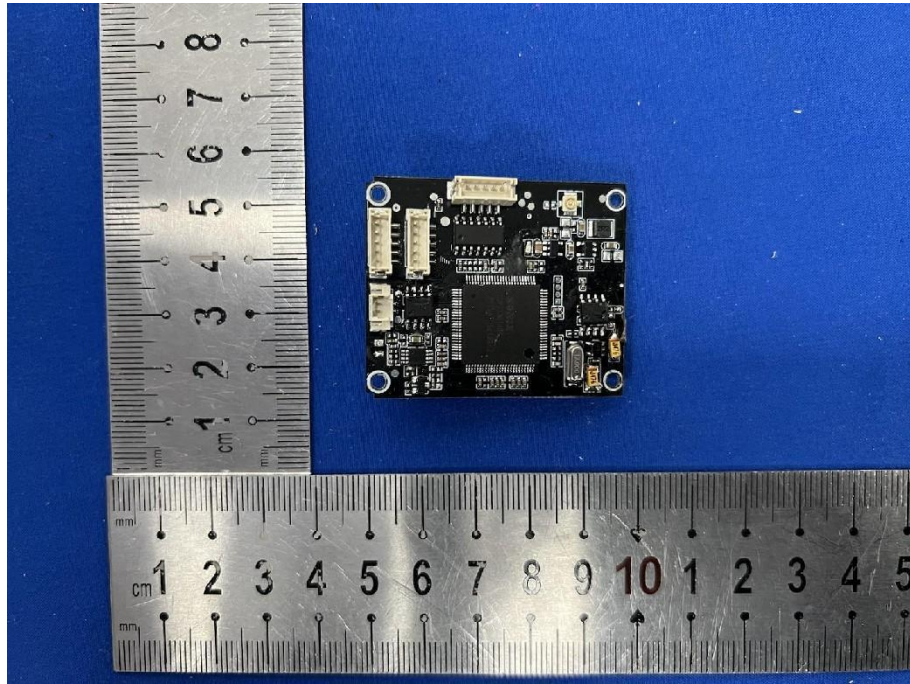














*** END OF REPORT ***