

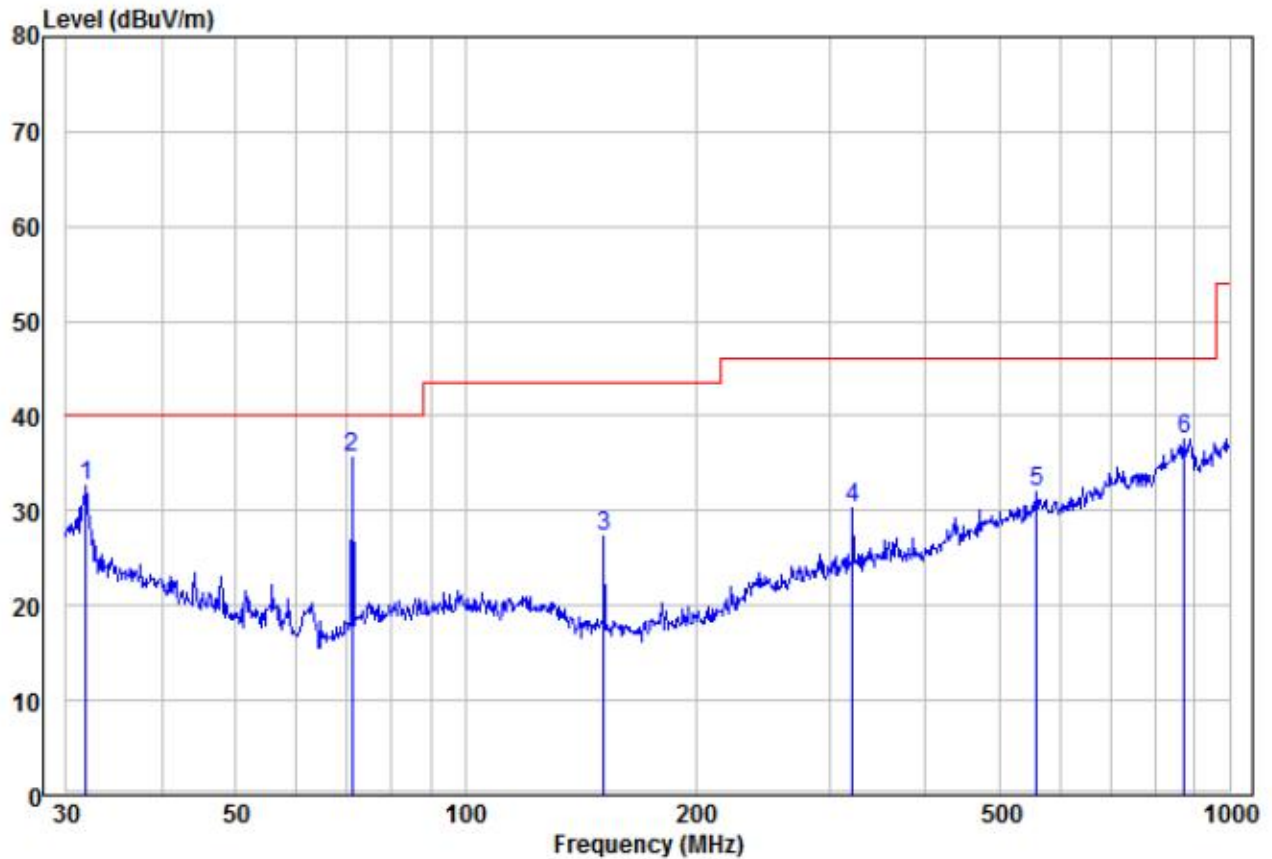
5.11.1 Radiated Emission below 1GHz

30MHz~1GHz

Test mode:

Transmitting

Vertical



	Read			Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	31.84	16.93	15.69	32.62	40.00	-7.38 Peak	VERTICAL
2 pp	71.08	26.45	9.23	35.68	40.00	-4.32 Peak	VERTICAL
3	151.60	17.56	9.69	27.25	43.50	-16.25 Peak	VERTICAL
4	321.06	14.49	15.86	30.35	46.00	-15.65 Peak	VERTICAL
5	558.73	10.98	21.06	32.04	46.00	-13.96 Peak	VERTICAL
6	872.18	10.84	26.77	37.61	46.00	-8.39 Peak	VERTICAL

Remark:

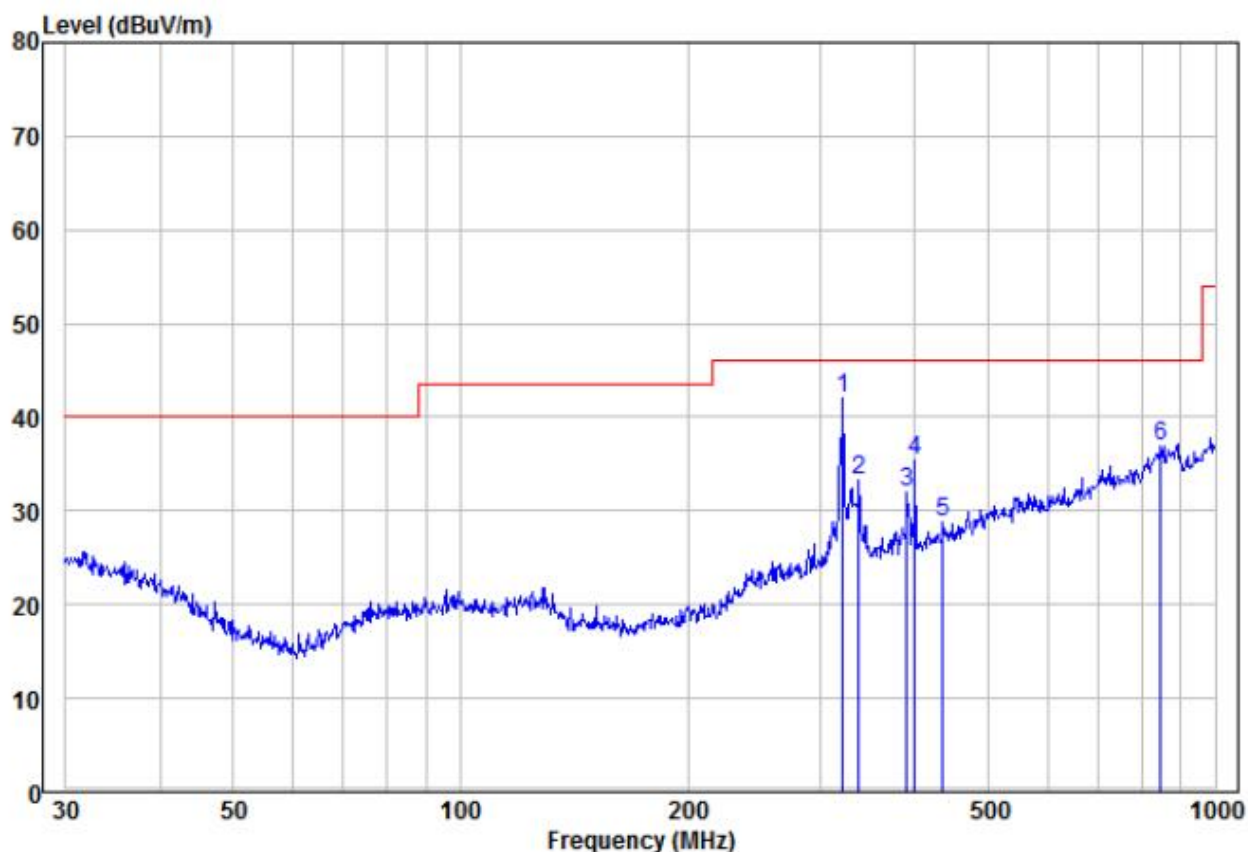
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.

Test mode:	Transmitting	Horizontal
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		Read		Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Pol/Phase
1	pp	321.06	26.26	15.86	42.12	46.00	-3.88 Peak
2		337.22	16.95	16.28	33.23	46.00	-12.77 Peak
3		390.72	15.45	16.64	32.09	46.00	-13.91 Peak
4		400.43	18.50	16.88	35.38	46.00	-10.62 Peak
5		435.59	10.67	18.09	28.76	46.00	-17.24 Peak
6		848.06	10.14	26.82	36.96	46.00	-9.04 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.

5.11.2 Transmitter Emission above 1GHz

Worse case mode:		GFSK(DH5)		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	54.37	-9.2	45.17	74	-28.83	Peak	H
2400	56.79	-9.39	47.40	74	-26.60	Peak	H
4804	51.60	-4.33	47.27	74	-26.73	Peak	H
7206	48.51	1.01	49.52	74	-24.48	Peak	H
2390	53.24	-9.2	44.04	74	-29.96	Peak	V
2400	55.47	-9.39	46.08	74	-27.92	Peak	V
4804	53.51	-4.33	49.18	74	-24.82	Peak	V
7206	50.03	1.01	51.04	74	-22.96	Peak	V

Worse case mode:		GFSK(DH5)		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
4882	51.75	-4.11	47.64	74	-26.36	peak	H
7323	48.58	1.51	50.09	74	-23.91	peak	H
4882	51.96	-4.11	47.85	74	-26.15	peak	V
7323	50.48	1.51	51.99	74	-22.01	peak	V

Worse case mode:		GFSK(DH5)		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	55.66	-9.29	46.37	74	-27.63	Peak	H
4960	51.44	-4.04	47.40	74	-26.60	Peak	H
7440	49.52	1.57	51.09	74	-22.91	Peak	H
2483.5	53.38	-9.29	44.09	74	-29.91	Peak	V
4960	48.74	-4.04	44.70	74	-29.30	Peak	V
7440	49.26	1.57	50.83	74	-23.17	Peak	V

Worse case mode:		π /4DQPSK (2DH5)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2390	56.20	-9.2	47.00	74	-27.00	Peak	H
2400	54.93	-9.39	45.54	74	-28.46	Peak	H
4804	52.72	-4.33	48.39	74	-25.61	Peak	H
7206	49.24	1.01	50.25	74	-23.75	Peak	H
2390	55.19	-9.2	45.99	74	-28.01	Peak	V
2400	56.93	-9.39	47.54	74	-26.46	Peak	V
4804	52.35	-4.33	48.02	74	-25.98	Peak	V
7206	50.04	1.01	51.05	74	-22.95	Peak	V

Worse case mode:		π /4DQPSK (2DH5)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
4882	50.28	-4.11	46.17	74	-27.83	peak	H
7323	51.23	1.51	52.74	74	-21.26	peak	H
4882	52.33	-4.11	48.22	74	-25.78	peak	V
7323	50.76	1.51	52.27	74	-21.73	peak	V

Worse case mode:		π /4DQPSK (2DH5)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2483.5	54.35	-9.29	45.06	74	-28.94	Peak	H
4960	51.09	-4.04	47.05	74	-26.95	Peak	H
7440	48.78	1.57	50.35	74	-23.65	Peak	H
2483.5	54.03	-9.29	44.74	74	-29.26	Peak	V
4960	48.85	-4.04	44.81	74	-29.19	Peak	V
7440	50.57	1.57	52.14	74	-21.86	Peak	V

Remark:

- 1) 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
- 2) 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:



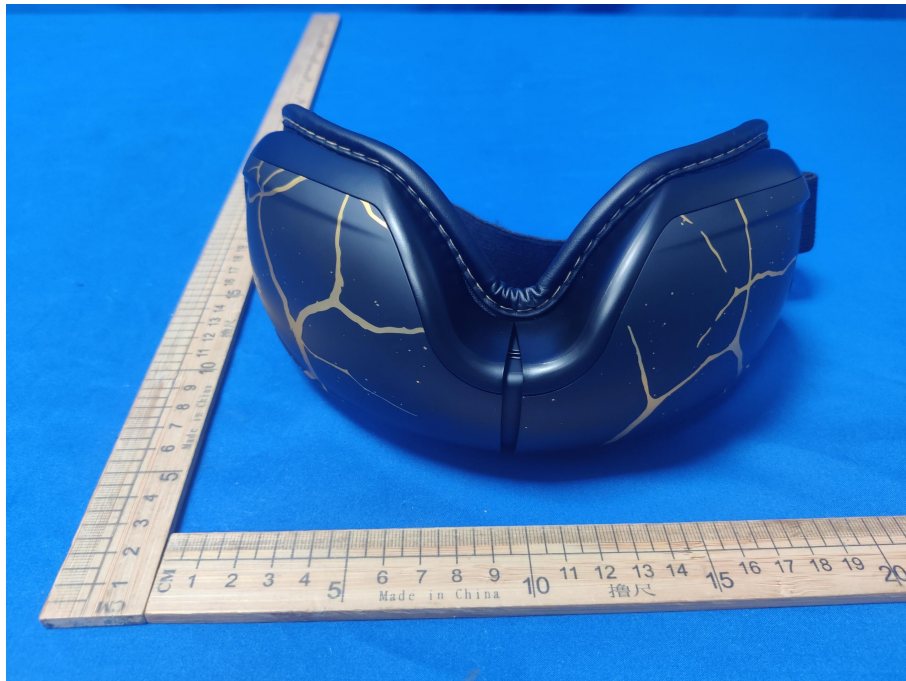
Above 1GHz:



6.2 Conducted Emission



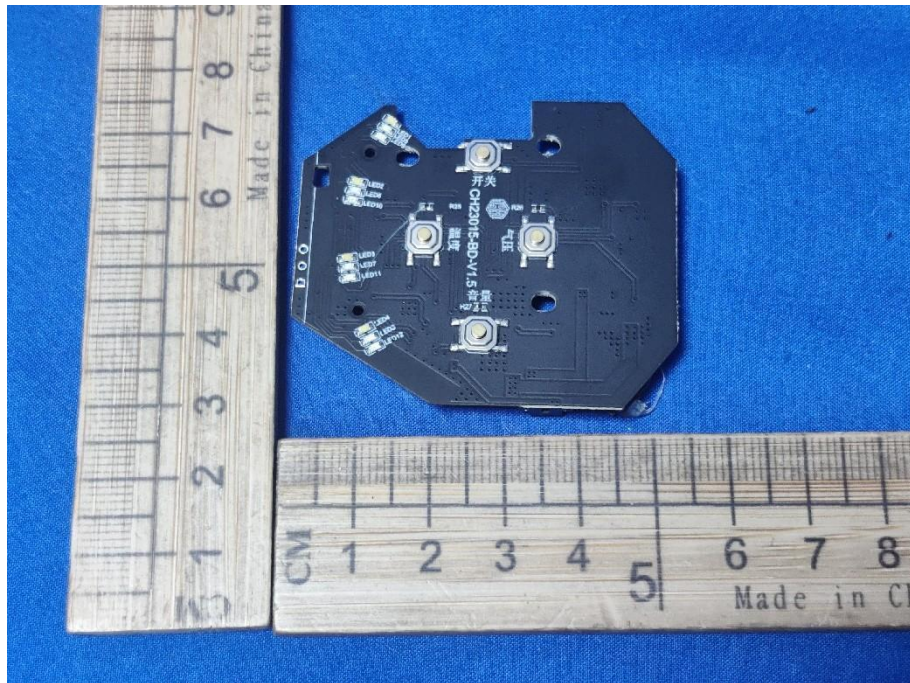
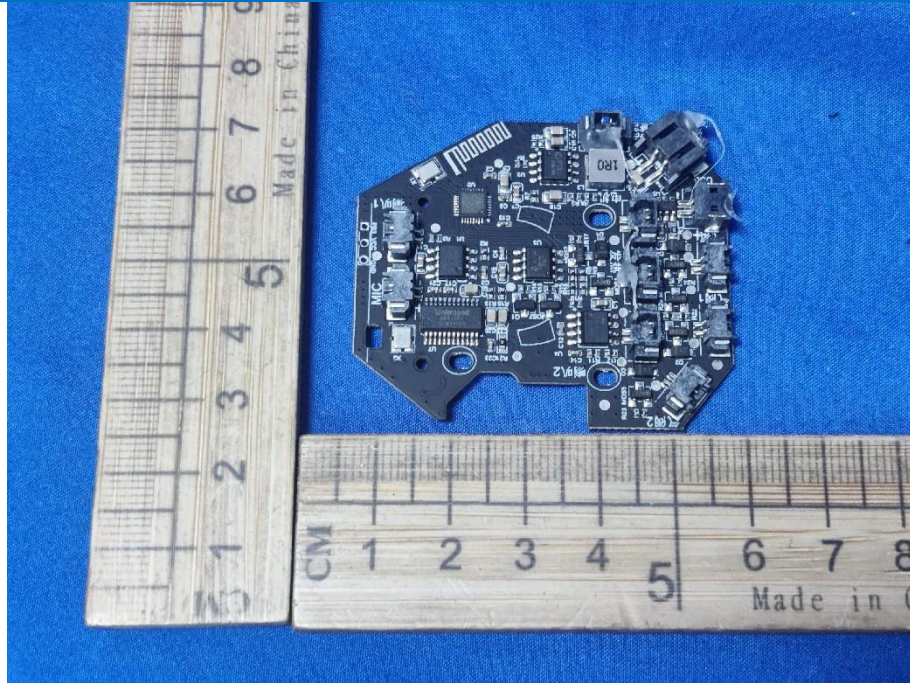
7 Photographs - EUT Constructional Details

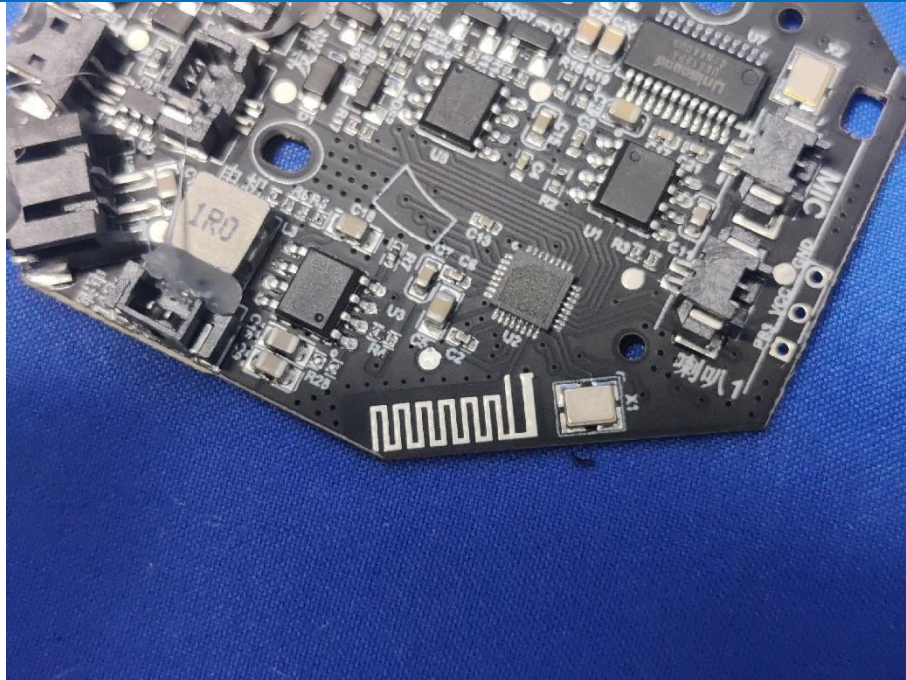












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