

深圳阿尔法商品检验有限公司
SHENZHEN ALPHA PRODUCT TESTING CO.,LTD

深圳阿尔法商品检验有限公司

Shenzhen Alpha Product Testing Co., Ltd

地址: ALPHA 深圳市宝安区福永街道立新路2号i栋

TEL:4008-3008-95

Site LAB 966 Chamber 1 Polarization: **Horizontal** Temperature: 22.5
 Limit: FCC Part 15 Class B Radiation (30-1000) Power: DC 5V From USB Humidity: 55 %
 EUT/Task No : A2503072-C02 Distance: 3m
 M/N/Sample No: A2503072-S0004
 Mode : GFSK 902.75MHz
 Note: ANT2
 Engineer Signature:

Radiated Emission Measurement

File :A2503072-C02

Data :#11

Date: 2025/7/26

Time: 14:05:32



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		42.6148	8.55	14.27	22.82	40.00	-17.18	peak		
2		96.5489	8.26	10.62	18.88	43.50	-24.62	peak		
3		177.2022	14.48	13.07	27.55	43.50	-15.95	peak		
4		265.3233	20.41	13.14	33.55	46.00	-12.45	peak		
5		492.1195	24.39	18.11	42.50	46.00	-3.50	QP		
6	*	903.2173	91.69	24.08	115.77	46.00	69.77	peak		

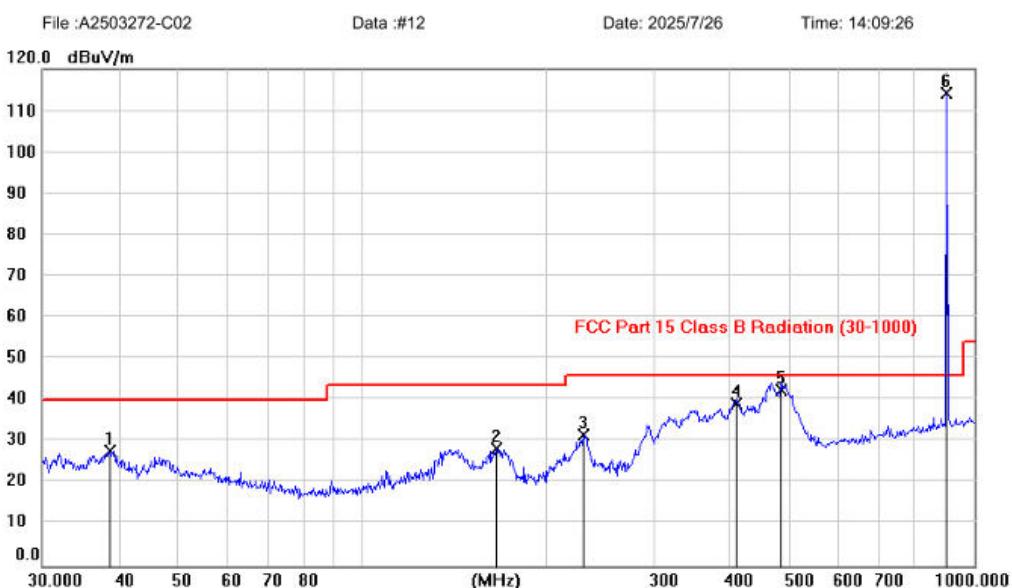
Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		38.6567	13.48	14.34	27.82	40.00	-12.18	peak		
2		165.5060	13.80	14.51	28.31	43.50	-15.19	peak		
3		229.8026	19.33	12.30	31.63	46.00	-14.37	peak		
4		409.8550	22.77	16.49	39.26	46.00	-6.74	QP		
5		485.4956	24.49	18.02	42.51	46.00	-3.49	QP		
6	*	902.7816	90.00	24.08	114.08	46.00	68.08	peak		

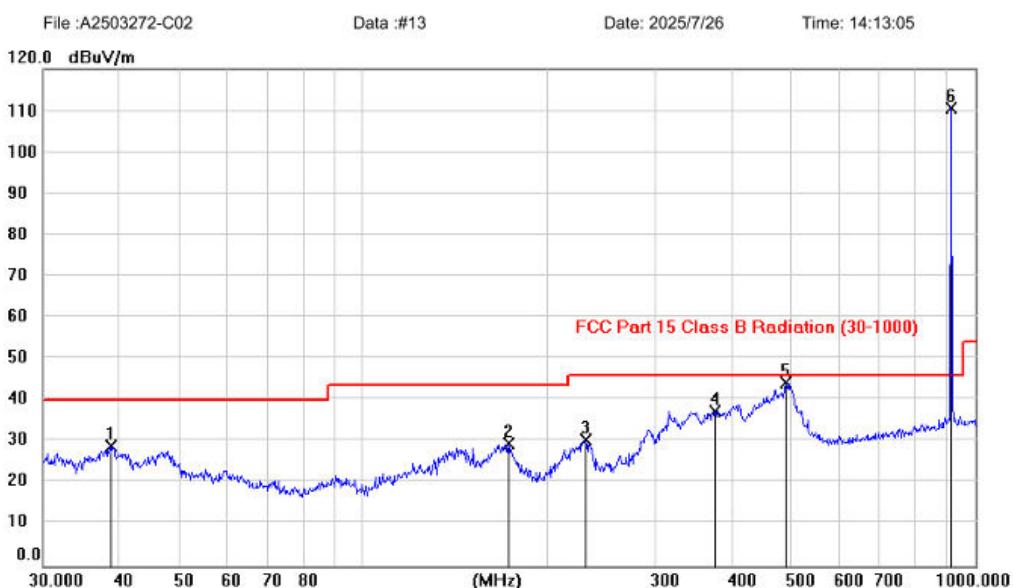
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 EUT/Task No : A2503072-C02 Distance: 3m
 M/N/Sample No: A2503072-S0004
 Mode : GFSK 915.25MHz
 Note: ANT2
 Engineer Signature:

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1	38.7426	14.50	14.37	28.87	40.00	-11.13	peak			
2	173.0834	15.79	13.65	29.44	43.50	-14.06	peak			
3	231.6637	18.02	12.35	30.37	46.00	-15.63	peak			
4	376.8623	21.44	15.83	37.27	46.00	-8.73	peak			
5	490.8020	26.20	18.09	44.29	46.00	-1.71	peak			
6 *	915.3192	86.33	24.25	110.58	46.00	64.58	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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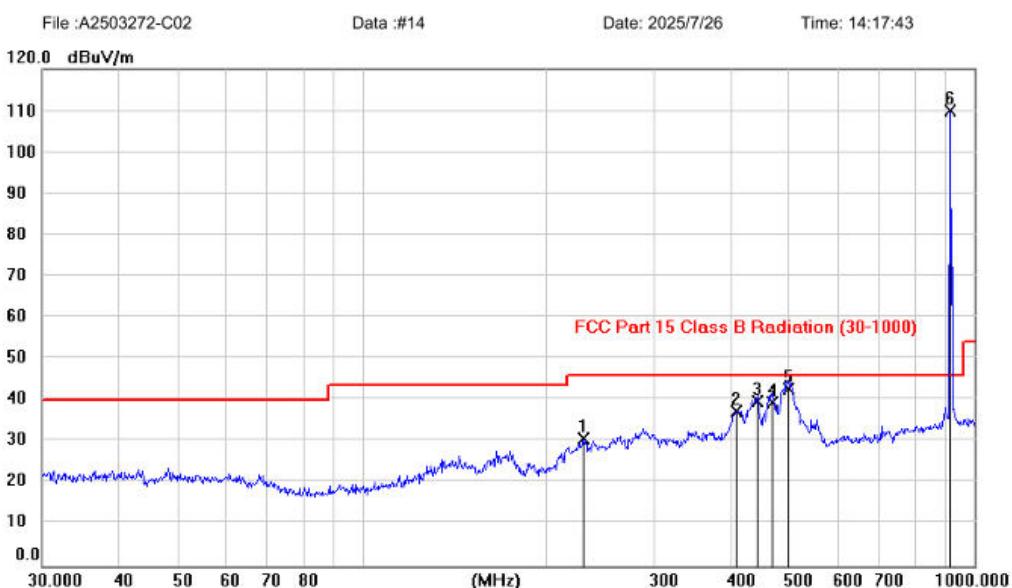
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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree
1		229.3197	18.46	12.27	30.73	46.00	-15.27	peak		
2		408.7547	21.01	16.46	37.47	46.00	-8.53	peak		
3		442.4143	22.38	17.38	39.76	46.00	-6.24	QP		
4		468.0548	21.76	17.73	39.49	46.00	-6.51	QP		
5		498.6080	24.65	18.19	42.84	46.00	-3.16	QP		
6	*	915.3192	85.85	24.25	110.10	46.00	64.10	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.

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Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	244.4034	20.38	12.64	33.02	46.00	-12.98	peak			
2	290.1528	19.29	13.88	33.17	46.00	-12.83	peak			
3	412.4019	21.23	16.55	37.78	46.00	-8.22	peak			
4	467.2348	21.86	17.72	39.58	46.00	-6.42	QP			
5	492.6412	24.65	18.11	42.76	46.00	-3.24	QP			
6 *	927.2721	85.98	24.39	110.37	46.00	64.37	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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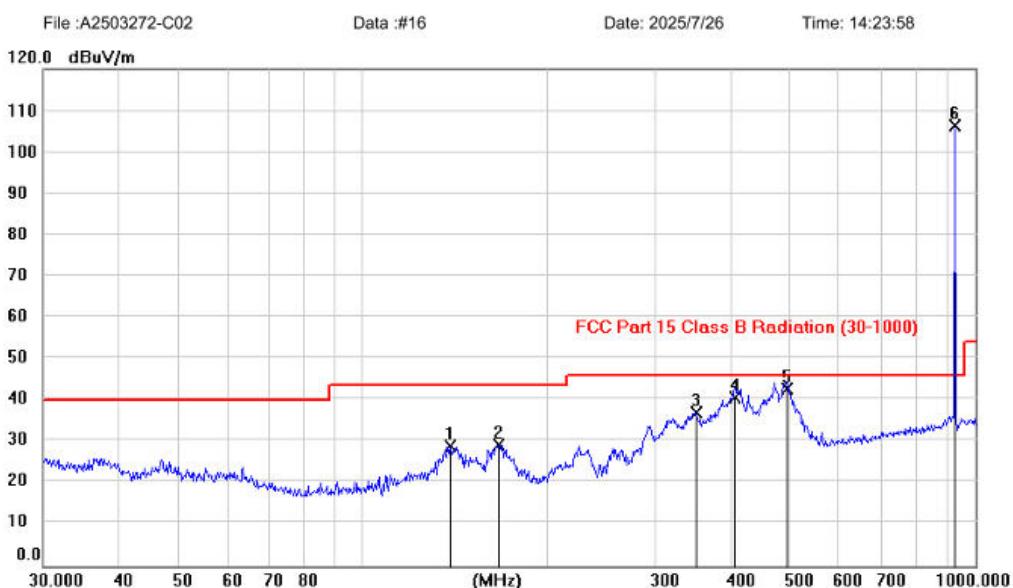
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Site LAB 966 Chamber 1 Polarization: **Vertical** Temperature: 22.5
 Limit: FCC Part 15 Class B Radiation (30-1000) Power: DC 5V From USB Humidity: 55 %
 EUT/Task No : A2503072-C02 Distance: 3m
 M/N/Sample No: A2503072-S0004
 Mode : GFSK 927.25MHz
 Note: ANT2
 Engineer Signature:

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	139.2471	14.71	14.26	28.97	43.50	-14.53	peak			
2	166.8853	14.78	14.38	29.16	43.50	-14.34	peak			
3	350.1082	21.81	15.23	37.04	46.00	-8.96	peak			
4	405.1397	24.28	16.37	40.65	46.00	-5.35	QP			
5	493.6211	24.73	18.13	42.86	46.00	-3.14	QP			
6 *	927.2722	81.99	24.39	106.38	46.00	60.38	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

For ANT1

Frequency range: 1GHz~25GHz

Test Mode : GFSK TX 902.75MHz								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	1805.5	H	69.71	-19.9	49.81	74	-24.19	Peak
2	1805.5	H	--	-19.9	--	54	--	AVG
3	2708.25	H	64.33	-13.88	50.45	74	-23.55	Peak
4	2708.25	H	--	-13.88	--	54	--	AVG
5	1805.5	V	70.48	-19.9	50.58	74	-23.42	Peak
6	1805.5	V	--	-19.9	--	54	--	AVG
7	2708.25	V	63.25	-13.88	49.37	74	-24.63	Peak
8	2708.25	V	--	-13.88	--	54	--	AVG
Test Mode : GFSK TX 915.25MHz								
1	1830.5	H	71.01	-19.9	51.11	74	-22.89	Peak
2	1830.5	H	--	-19.9	--	54	--	AVG
3	2745.75	H	64.50	-13.88	50.62	74	-23.38	Peak
4	2745.75	H	--	-13.88	--	54	--	AVG
5	1830.5	V	71.70	-19.9	51.80	74	-22.2	Peak
6	1830.5	V	--	-19.9	--	54	--	AVG
7	2745.75	V	63.99	-13.88	50.11	74	-23.89	Peak
8	2745.75	V	--	-13.88	--	54	--	AVG
Test Mode : GFSK TX 927.25MHz								
1	1854.5	H	71.10	-19.9	51.20	74	-22.8	Peak
2	1854.5	H	--	-19.9	--	54	--	AVG
3	2781.75	H	64.50	-13.88	50.62	74	-23.38	Peak
4	2781.75	H	--	-13.88	--	54	--	AVG
5	1854.5	V	70.76	-19.9	50.86	74	-23.14	Peak
6	1854.5	V	--	-19.9	--	54	--	AVG
7	2781.75	V	64.18	-13.88	50.30	74	-23.7	Peak
8	2781.75	V	--	-13.88	--	54	--	AVG

Note:

1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.
2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.
Result=Reading + Correct Factor. Margin= Result-Limit.
3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

For ANT2

Frequency range: 1GHz~25GHz

Test Mode : GFSK TX 902.75MHz								
No.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	1805.5	H	69.75	-18.73	51.02	74	-22.98	Peak
2	1805.5	H	--	-18.73	--	54	--	AVG
3	2708.25	H	64.30	-14.33	49.97	74	-24.03	Peak
4	2708.25	H	--	-14.33	--	54	--	AVG
5	1805.5	V	70.47	-18.73	51.74	74	-22.26	Peak
6	1805.5	V	--	-18.73	--	54	--	AVG
7	2708.25	V	63.23	-14.33	48.90	74	-25.10	Peak
8	2708.25	V	--	-14.33	--	54	--	AVG
Test Mode : GFSK TX 915.25MHz								
1	1830.5	H	70.16	-18.60	51.56	74	-22.44	Peak
2	1830.5	H	--	-18.60	--	54	--	AVG
3	2745.75	H	64.75	-14.28	50.47	74	-23.53	Peak
4	2745.75	H	--	-14.28	--	54	--	AVG
5	1830.5	V	71.46	-18.60	52.86	74	-21.14	Peak
6	1830.5	V	--	-18.60	--	54	--	AVG
7	2745.75	V	63.66	-14.28	49.38	74	-24.62	Peak
8	2745.75	V	--	-14.28	--	54	--	AVG
Test Mode : GFSK TX 927.25MHz								
1	1854.5	H	71.34	-18.49	52.85	74	-21.15	Peak
2	1854.5	H	--	-18.49	--	54	--	AVG
3	2781.75	H	65.89	-14.23	51.66	74	-22.34	Peak
4	2781.75	H	--	-14.23	--	54	--	AVG
5	1854.5	V	70.53	-18.49	52.04	74	-21.96	Peak
6	1854.5	V	--	-18.49	--	54	--	AVG
7	2781.75	V	64.19	-14.23	49.96	74	-24.04	Peak
8	2781.75	V	--	-14.23	--	54	--	AVG

Note:

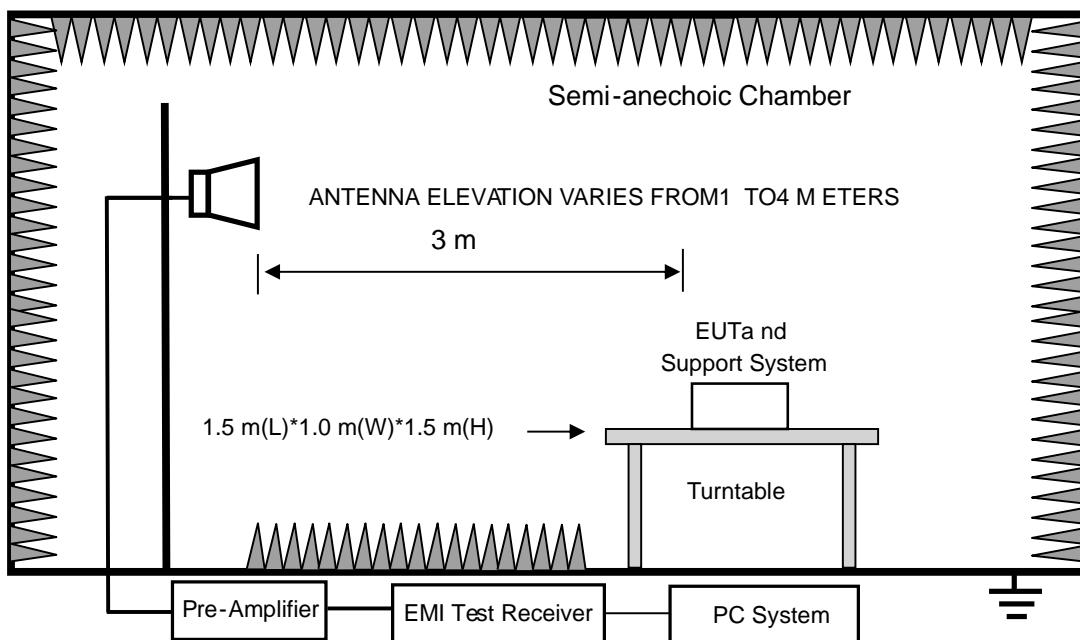
1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.
2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.
Result=Reading + Correct Factor. Margin= Result-Limit.
3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

14. Band Edge(Radiated)

14.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal Due To
Spectrum analyzer	ROHDE&SCHWARZ	FSU	Aa-EE075	2024/08/08	2025/08/07
Horn Antenna	SCHWARZBEC	BBHA 9120 D	Aa-EE076	2023/08/19	2025/08/18
Test Receiver	ROHDE&SCHWARZ	ESR	Aa-EE048	2024/08/08	2025/08/07
Bilog Antenna	SCHWARZBEC	VULB 9168	Aa-EE001	2023/08/28	2025/08/27
Amplifier	SKET	LNPA_0118G-45	Aa-EE087	2024/08/08	2025/08/07
Horn Antenna	SCHWARZBEC	BBHA 9170	Aa-EE077	2023/08/19	2025/08/18
Loop Antenna	SCHWARZBEC	FMZB 1519B	Aa-EE074	2023/08/19	2025/08/18

14.2. Block diagram of test setup



14.3. Limits

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 [§ 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\(c\)](#)).

14.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Portable laptop	Lenovo	ThinkPad L14 Gan 1	/	/
Adapter	OLEAD	OLD050300AC N2U	Input: 100-240V~50/60Hz 0.5A max;5.0V=3.0A	/

14.5. Test procedure

Details see the KDB 558074 D01 15.247 Meas Guidance v05r02

- § Put the EUT on a 0.8m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission
- § Check the spurious emissions out of band.
- § RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 3MHz, RMS detector for AV value.

All restriction band and non- restriction band have been tested, only worse case is reported.

14.6. Test result

Test Site: Chamber 1#(RSE)	Test Date: 2025/06/27--2025/07/26
Condition: 22.5°C,55%RH,101kPa	Test Engineer: Yannis Wen
Memo: Only show the test data of the worst case.	

EUT Name: Lumatas RFID US kit	EUT Model: CM710-4-NA
Sample No.: A2503072-S0004	Test Mode: GFSK Mode-L/H & GFSK hopping Mode
Power supply: DC 5V from adapter	Memo: /

/

14.7. Test data



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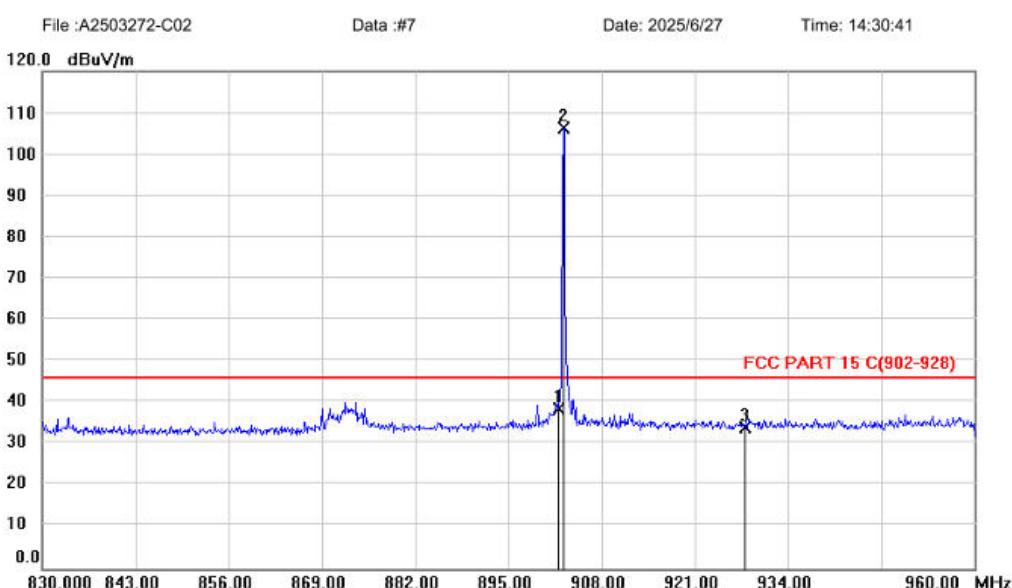
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TEL:4008-3008-95

Site LAB 966 Chamber 1	Polarization: Vertical	Temperature: 22.5
Limit: FCC PART 15 C(902-928)	Power: DC 5V From USB	Humidity: 55 %
EUT/Task No : A2503072-C02	Distance: 3m	
M/N/Sample No: A2503072-S0004		
Mode : GFSK 902.75MHz		
Note: ANT1		
Engineer Signature:		

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment		Margin	Antenna Height	Table Degree				
					MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		902.0000	14.52	24.07	38.59	46.00	-7.41	peak					
2	*	902.7480	82.42	24.08	106.50	46.00	60.50	peak					
3		928.0000	9.75	24.39	34.14	46.00	-11.86	peak					

Note:1. *:Maximum data; x:Over limit; !:over margin.

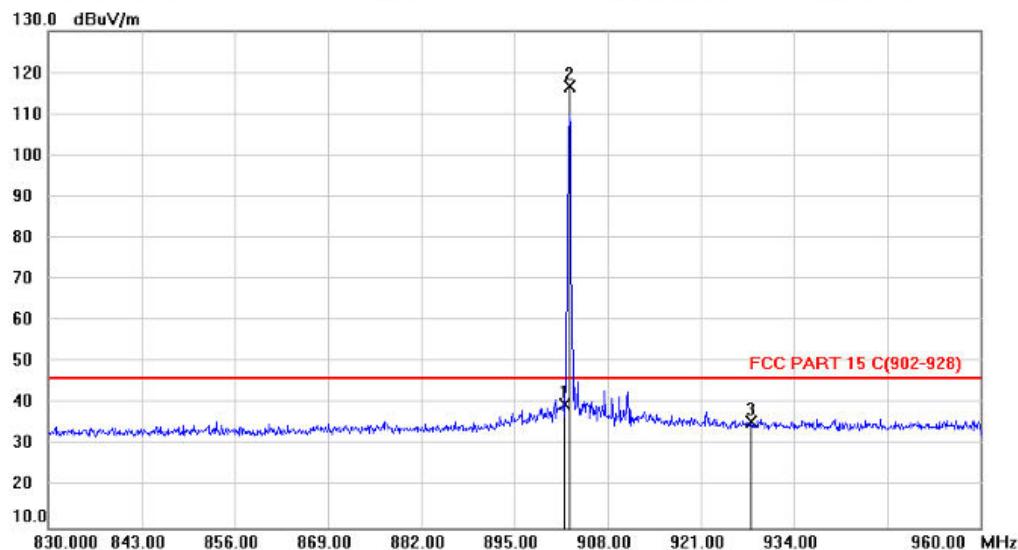
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 M/N/Sample No: A2503072-S0004
 Mode : GFSK 902.75MHz
 Note: ANT1
 Engineer Signature:

Radiated Emission Measurement

File :A2503072-C02 Data #:8 Date: 2025/6/27 Time: 14:35:07



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	902.0000	15.85	24.07	39.92	46.00	-6.08	peak			
2 *	902.7500	92.69	24.08	116.77	46.00	70.77	peak			
3	928.0000	11.25	24.39	35.64	46.00	-10.36	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.

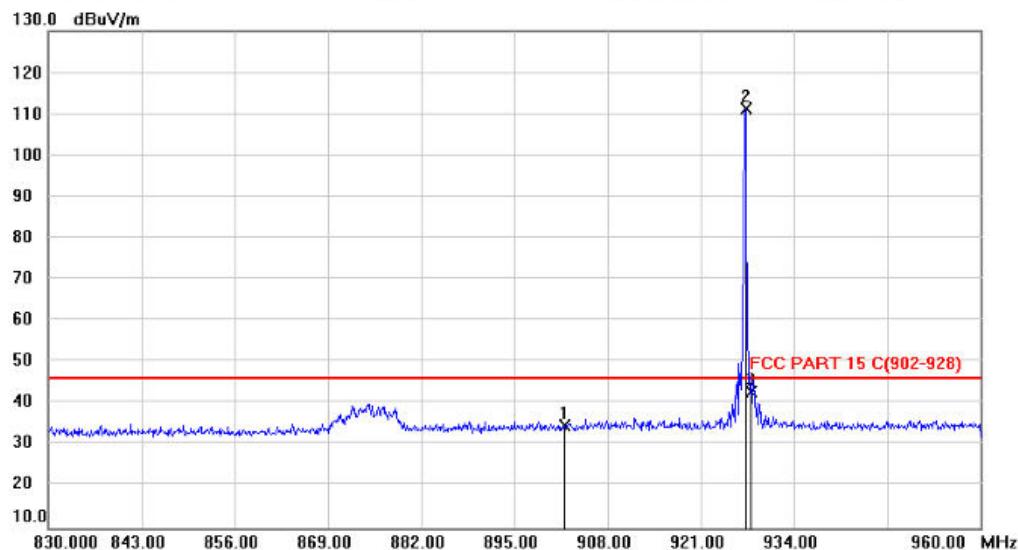
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 Limit: FCC PART 15 C(902-928) Power: DC 5V From USB Humidity: 55 %
 EUT/Task No : A2503072-C02 Distance: 3m
 M/N/Sample No: A2503072-S0004
 Mode : GFSK 927.25MHz
 Note: ANT1
 Engineer Signature:

Radiated Emission Measurement

File :A2503072-C02 Data #:9 Date: 2025/6/27 Time: 14:42:06



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1	*	902.0000	10.79	24.07	34.86	46.00	-11.14	peak		
2	*	927.2530	86.99	24.39	111.38	46.00	65.38	peak		
3		928.0000	18.47	24.39	42.86	46.00	-3.14	peak		

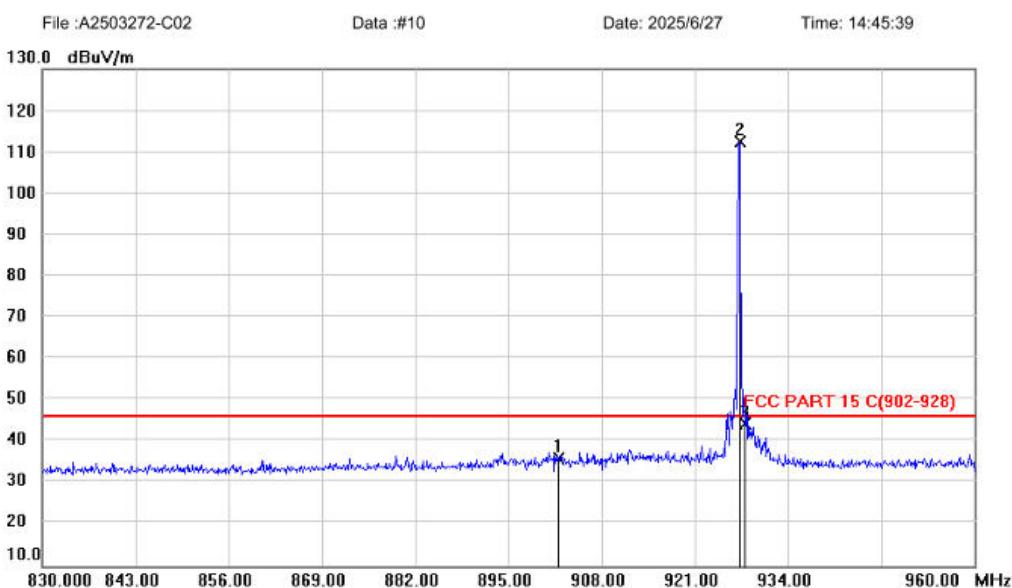
Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

深圳阿尔法商品检验有限公司
SHENZHEN ALPHA PRODUCT TESTING CO.,LTD深圳阿尔法商品检验有限公司
Shenzhen Alpha Product Testing Co., Ltd
地址: ALPHA 深圳市宝安区福永街道立新路2号i栋
TEL:4008-3008-95

Site LAB 966 Chamber 1 Polarization: **Horizontal** Temperature: 22.5
 Limit: FCC PART 15 C(902-928) Power: DC 5V From USB Humidity: 55 %
 EUT/Task No : A2503072-C02 Distance: 3m
 M/N/Sample No: A2503072-S0004
 Mode : GFSK 927.25MHz
 Note: ANT1
 Engineer Signature:

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	
1		902.0000	11.96	24.07	36.03	46.00	-9.97	peak		
2	*	927.2486	88.11	24.39	112.50	46.00	66.50	peak		
3		928.0000	19.81	24.39	44.20	46.00	-1.80	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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深圳阿尔法商品检验有限公司

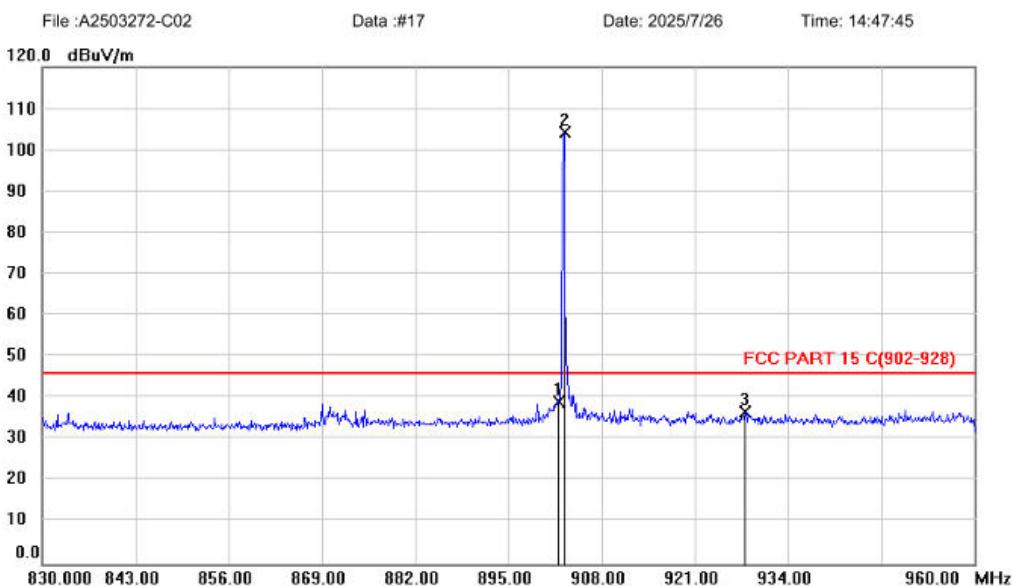
Shenzhen Alpha Product Testing Co., Ltd

地址: ALPHA 深圳市宝安区福永街道立新路2号i栋

TEL:4008-3008-95

Site LAB 966 Chamber 1 Polarization: **Vertical** Temperature: 22.5
 Limit: FCC PART 15 C(902-928) Power: DC 5V From USB Humidity: 55 %
 EUT/Task No : A2503072-C02 Distance: 3m
 M/N/Sample No: A2503072-S0004
 Mode : GFSK 902.75MHz
 Note: ANT2
 Engineer Signature:

Radiated Emission Measurement



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	
1	902.0000	15.02	24.07	39.09	46.00	-6.91	peak			
2	*	902.8000	80.10	24.08	104.18	46.00	58.18	peak		
3		928.0000	12.25	24.39	36.64	46.00	-9.36	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.

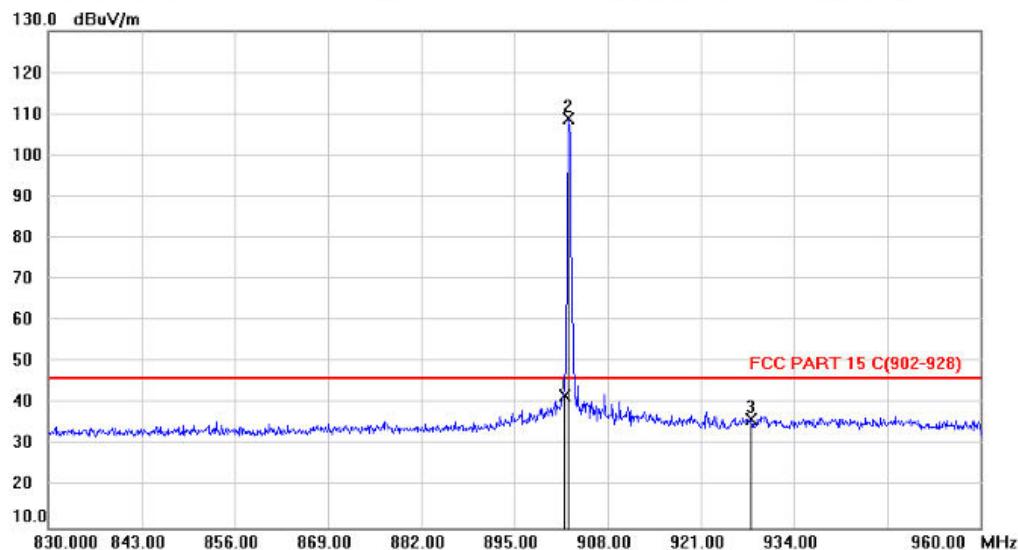
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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Shenzhen Alpha Product Testing Co., Ltd
地址: ALPHA 深圳市宝安区福永街道立新路2号i栋
TEL:4008-3008-95

Site LAB 966 Chamber 1 Polarization: **Horizontal** Temperature: 22.5
 Limit: FCC PART 15 C(902-928) Power: DC 5V From USB Humidity: 55 %
 EUT/Task No : A2503072-C02 Distance: 3m
 M/N/Sample No: A2503072-S0004
 Mode : GFSK 902.75MHz
 Note: ANT2
 Engineer Signature:

Radiated Emission Measurement

File :A2503072-C02 Data #:18 Date: 2025/7/26 Time: 14:52:05



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	
1		902.0000	17.85	24.07	41.92	46.00	-4.08	peak		
2	*	902.6656	84.67	24.07	108.74	46.00	62.74	peak		
3		928.0000	11.75	24.39	36.14	46.00	-9.86	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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Shenzhen Alpha Product Testing Co., Ltd
地址: ALPHA 深圳市宝安区福永街道立新路2号i栋
TEL:4008-3008-95

Site LAB 966 Chamber 1 Polarization: **Vertical** Temperature: 22.5
 Limit: FCC PART 15 C(902-928) Power: DC 5V From USB Humidity: 55 %
 EUT/Task No : A2503072-C02 Distance: 3m
 M/N/Sample No: A2503072-S0004
 Mode : GFSK 927.25MHz
 Note: ANT2
 Engineer Signature:

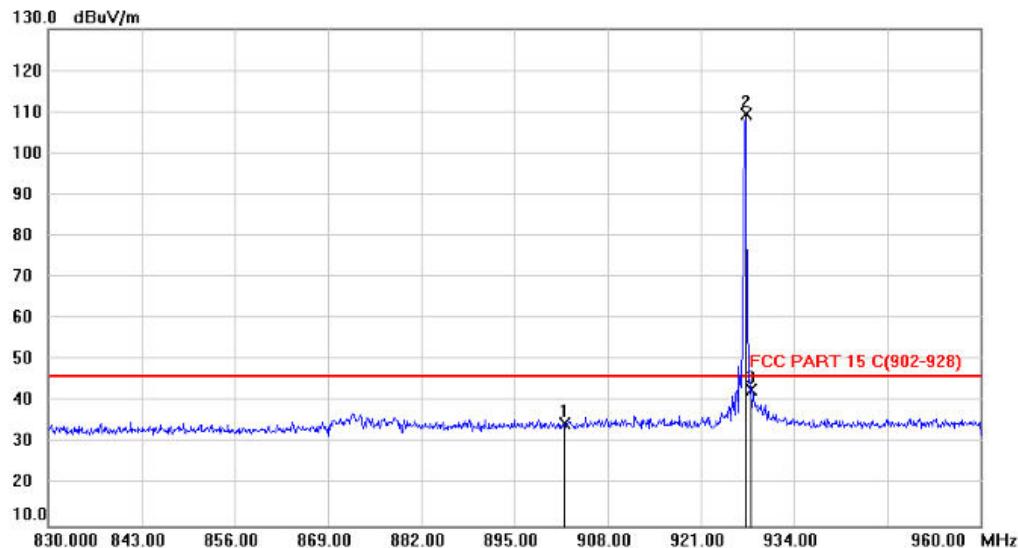
Radiated Emission Measurement

File :A2503072-C02

Data #:19

Date: 2025/7/26

Time: 14:56:42



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		902.0000	10.79	24.07	34.86	46.00	-11.14	peak		
2	*	927.2530	84.99	24.39	109.38	46.00	63.38	peak		
3		928.0000	18.47	24.39	42.86	46.00	-3.14	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.

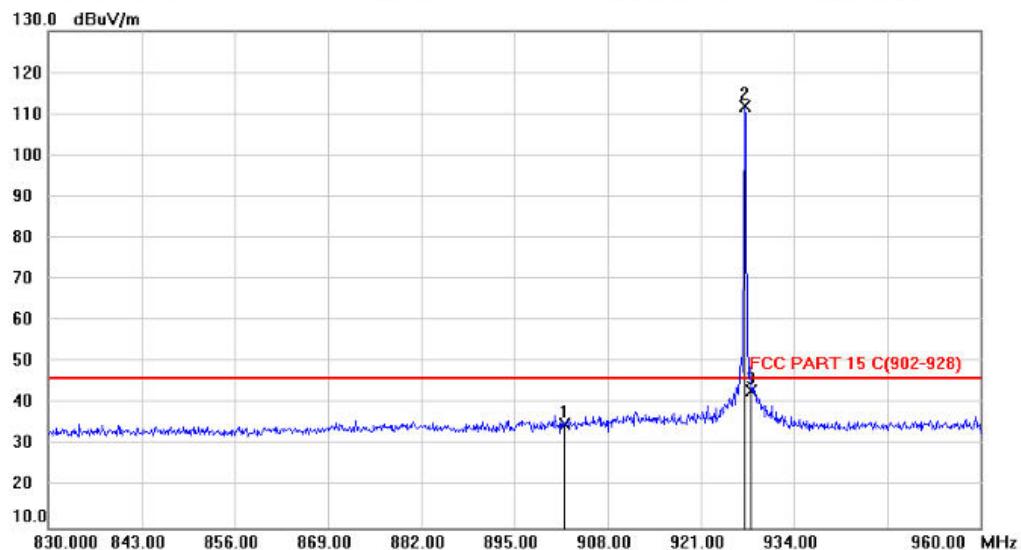
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

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Shenzhen Alpha Product Testing Co., Ltd
地址: ALPHA 深圳市宝安区福永街道立新路2号i栋
TEL:4008-3008-95

Site LAB 966 Chamber 1 Polarization: **Horizontal** Temperature: 22.5
 Limit: FCC PART 15 C(902-928) Power: DC 5V From USB Humidity: 55 %
 EUT/Task No : A2503072-C02 Distance: 3m
 M/N/Sample No: A2503072-S0004
 Mode : GFSK 927.25MHz
 Note: ANT2
 Engineer Signature:

Radiated Emission Measurement

File :A2503072-C02 Data #:20 Date: 2025/7/26 Time: 15:01:01

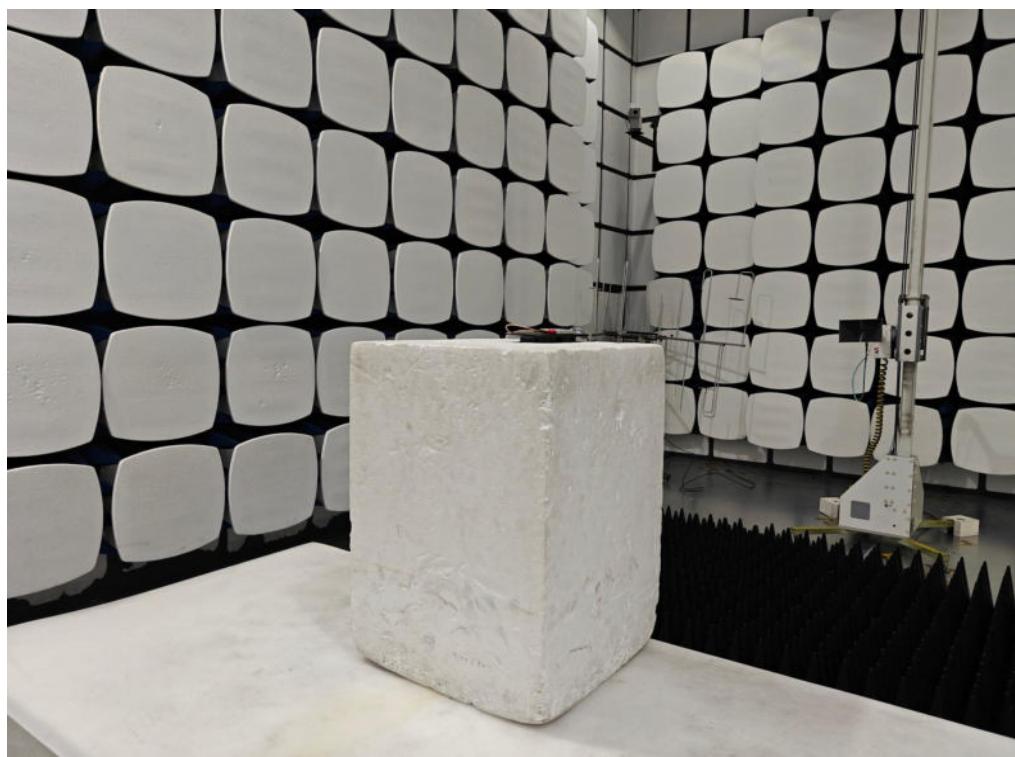
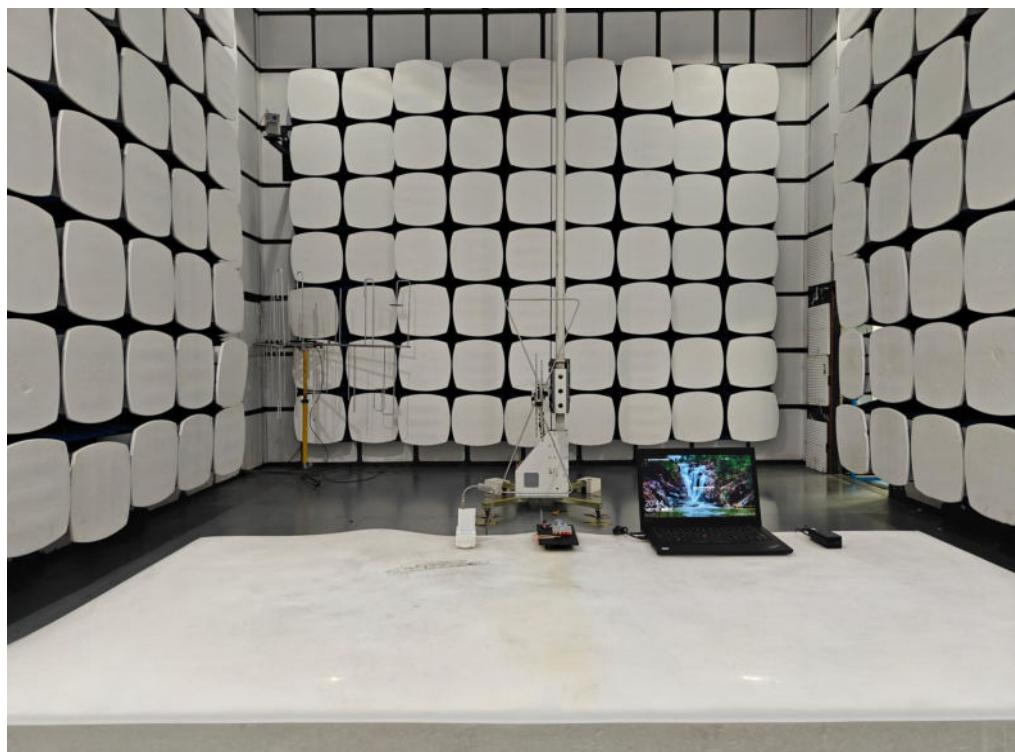


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	Comment
1		902.0000	10.96	24.07	35.03	46.00	-10.97	peak		
2	*	927.2355	87.35	24.39	111.74	46.00	65.74	peak		
3		928.0000	18.81	24.39	43.20	46.00	-2.80	peak		

Note:1. *:Maximum data; x:Over limit; !:over margin.

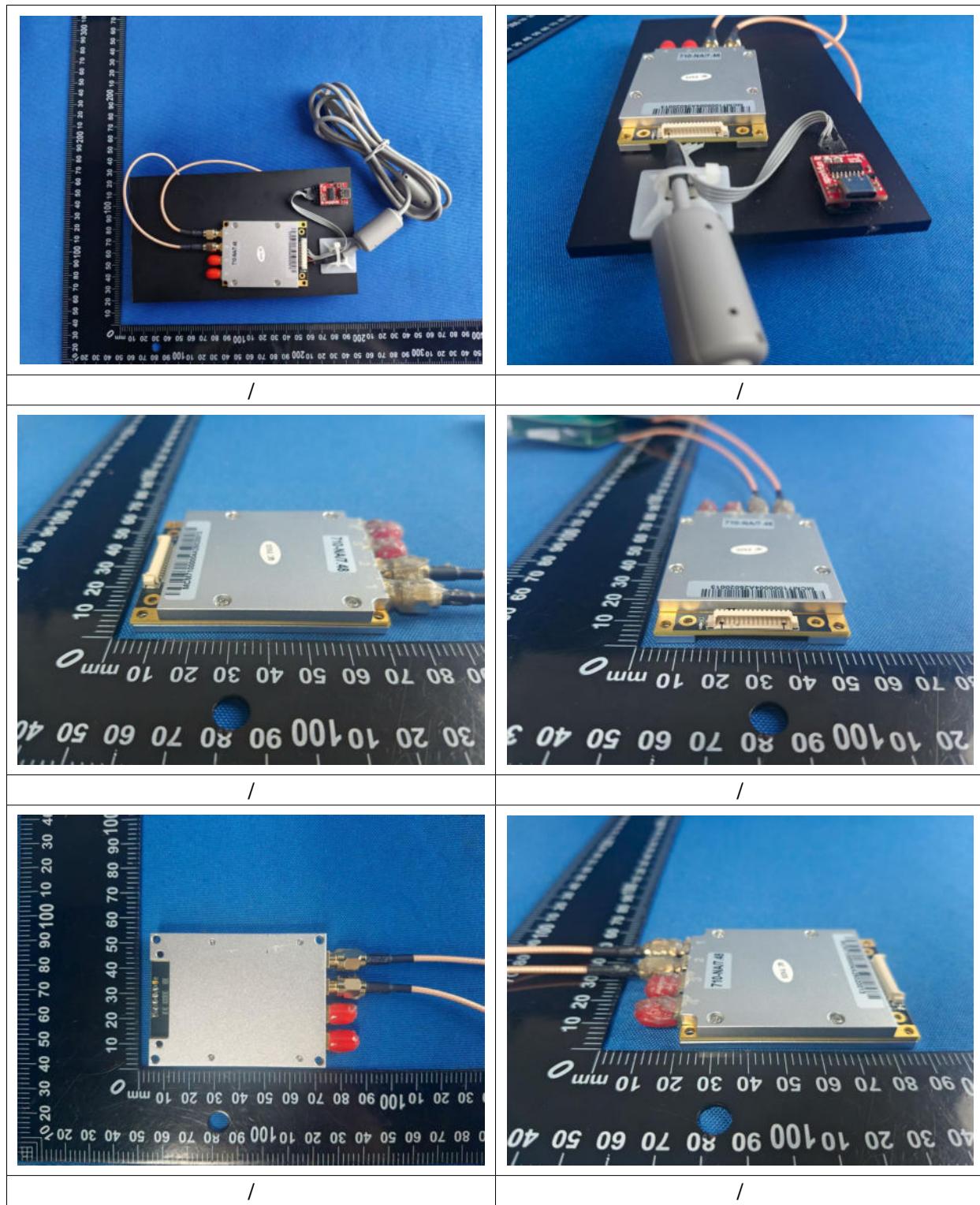
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

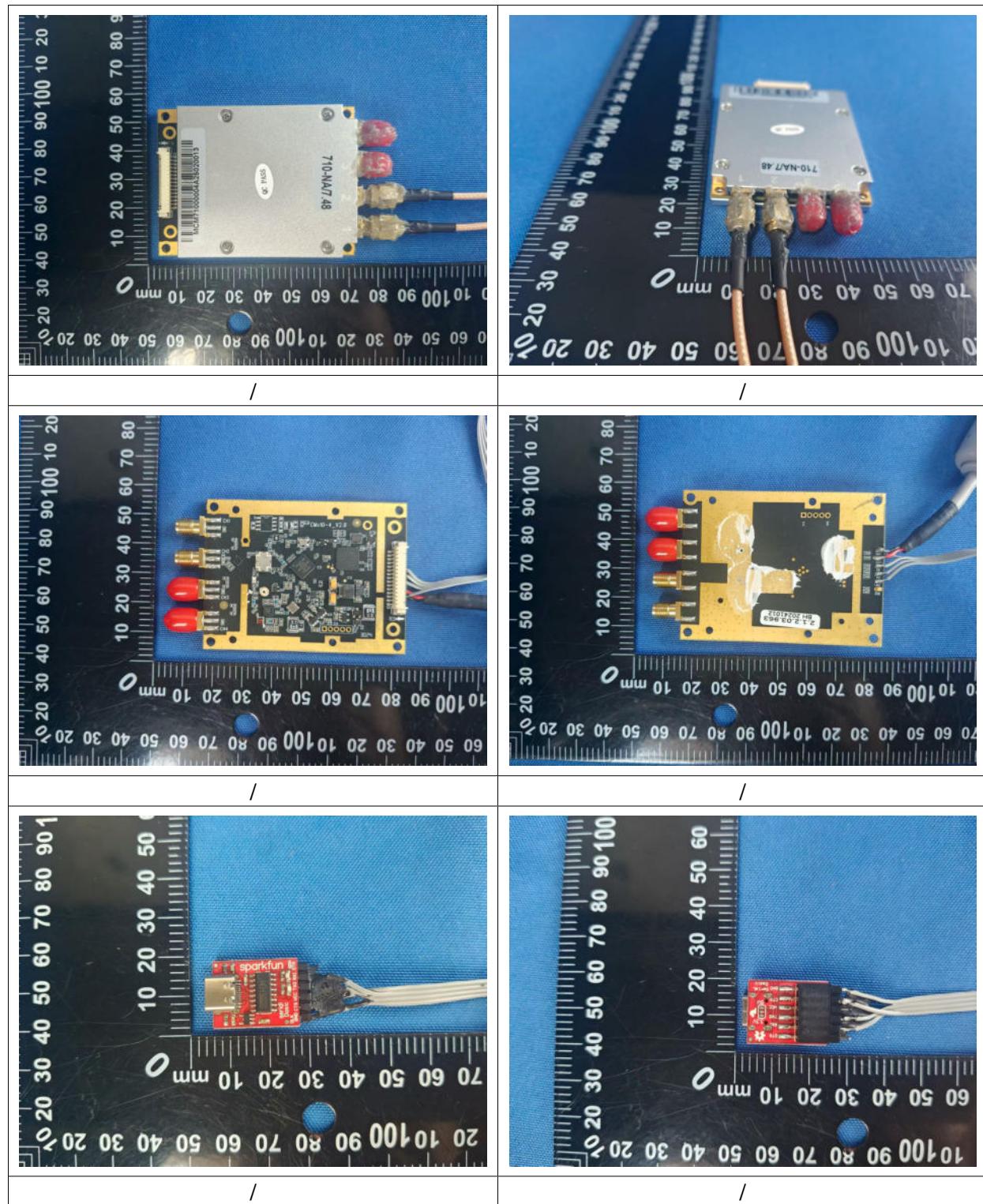
15. Test Setup Photograph

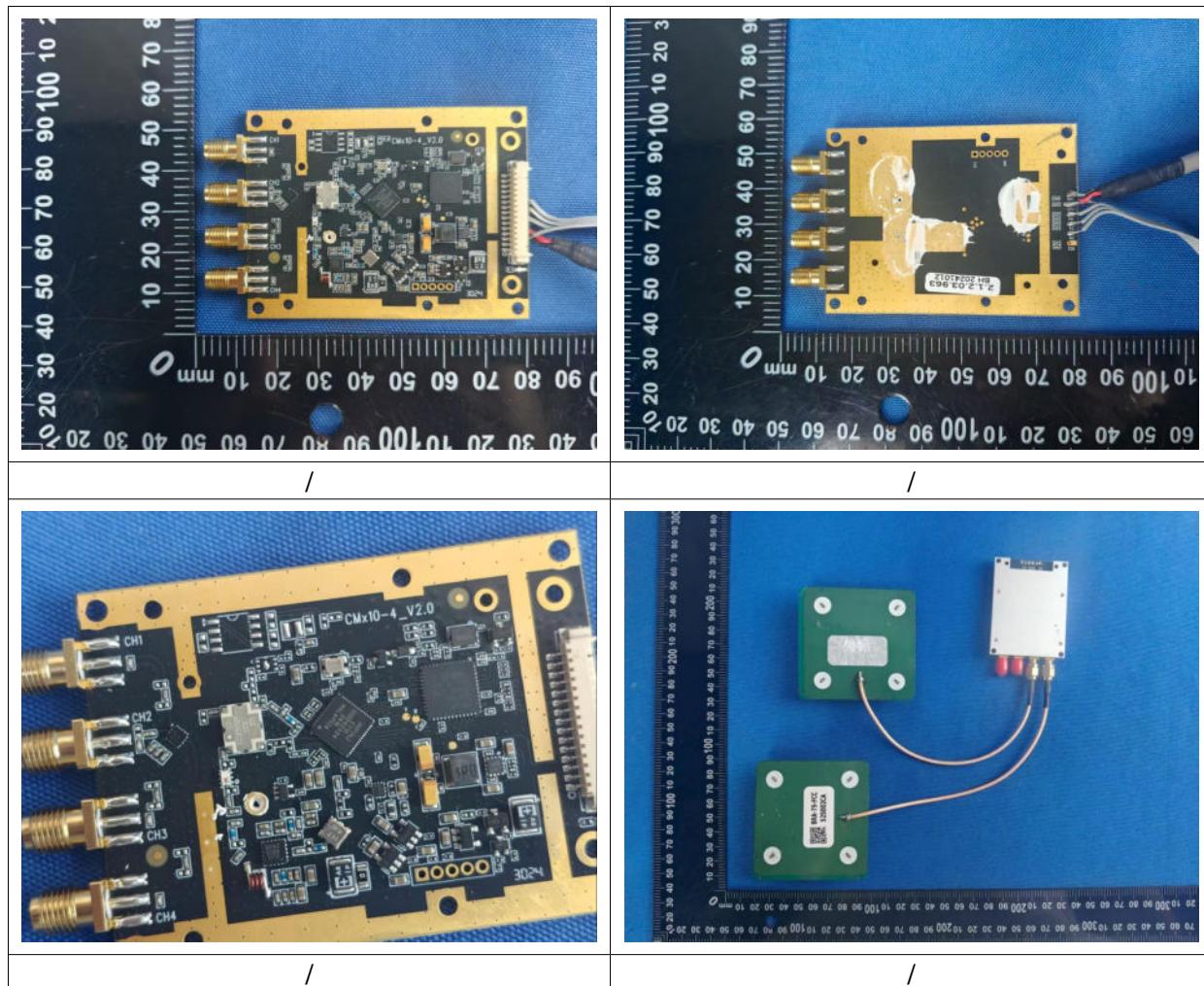




16. Photos of the EUT







-----End Report-----