

FCC Test Report

Report No.: 2405T74421EA
Applicant: FEIT ELECTRIC COMPANY
Address: 4901 GREGG ROAD PICO RIERA,CA
Product Name: Tape Light
Product Model: FETAPECOBREM1
Multiple Models: N/A
Trade Mark: Commercial Electric
FCC ID: SYW-TAPECOBREM1
Standards: FCC CFR Title 47 Part 15C (§15.249)
Test Date: 2024-05-22 to 2024-06-21

Test Result: Complied
Report Date: 2024-06-24
Reviewed by:

Approved by:

Abel chen

Abel Chen
Project Engineer

Jacob Kong

Jacob Kong
Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

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Guangdong, People's Republic of China



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Revision History

Version No.	Issued Date	Description
00	2024-06-24	Original

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1 General Information

1.1 Client Information

Applicant:	FEIT ELECTRIC COMPANY
Address:	4901 GREGG ROAD PICO RIERA,CA
Manufacturer:	FEIT ELECTRIC COMPANY
Address:	4901 GREGG ROAD PICO RIERA,CA

1.2 Product Description of EUT

The EUT is Tape Light that contains a 2.4G SRD radio, this report covers the full testing of the 2.4G SRD radio.

Sample Serial Number	2KZR-1&2KZR-2 (assigned by WATC)
Sample Received Date	2024-05-22
Sample Status	Good Condition
Frequency Range	2413-2471MHz
Maximum E-field Strength:	95.04dBuV/m@3m
Modulation Technology	GFSK
Antenna Gain [#]	1dBi
Spatial Streams [#]	SI (1TX)
Power Supply	DC 3V from battery
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement: 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. 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.	
Device Antenna information:	
The antenna is an internal antenna which cannot replace by end-user. Please see product internal photos for details.	

1.4 Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s)

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Bandwidth		0.34%
Note 1: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. Note 2: The Decision Rule is based on simple acceptance with ISO Guide 98-4:2012 Clause 8.2 (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)		

1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

ANSI C63.10-2020

2 Description of Measurement

2.1 Test Configuration

Operating channels:					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2413	2	2441	3	2471
According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest/middle/highest frequency in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	2413	2	2441	3	2471

Test Mode:			
Transmitting mode:	Keep the EUT in continuous transmitting with modulation		
Exercise software [#] :	N/A, EUT was set to test mode by applicant		
Mode	Power Level Setting [#]		
	Low Channel	Middle Channel	High Channel
SRD	Default	Default	Default
The exercise software and the maximum power setting that provided by manufacturer.			

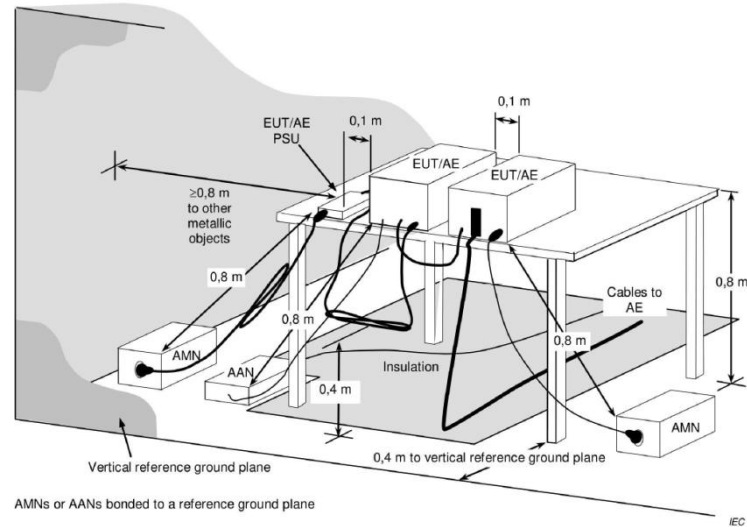
Worst-Case Configuration:
For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report
For radiated emission 9kHz-30MHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
/	/	/	/

2.3 Test Setup

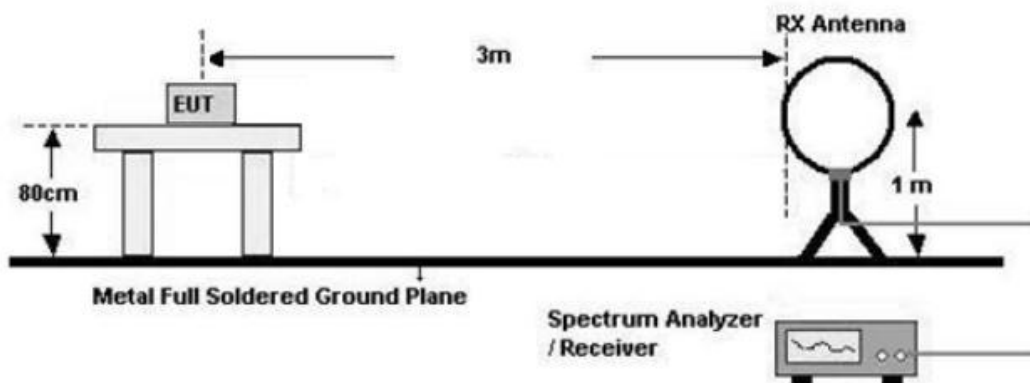
1) Conducted emission measurement:



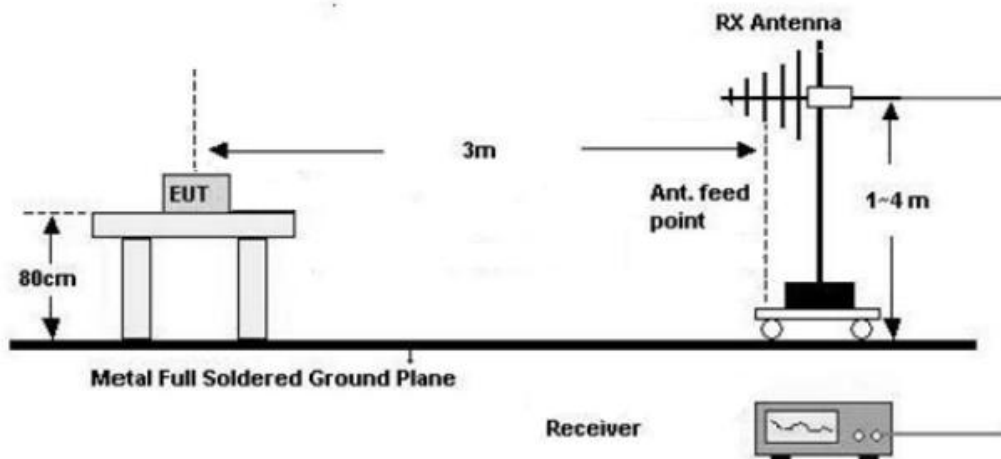
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

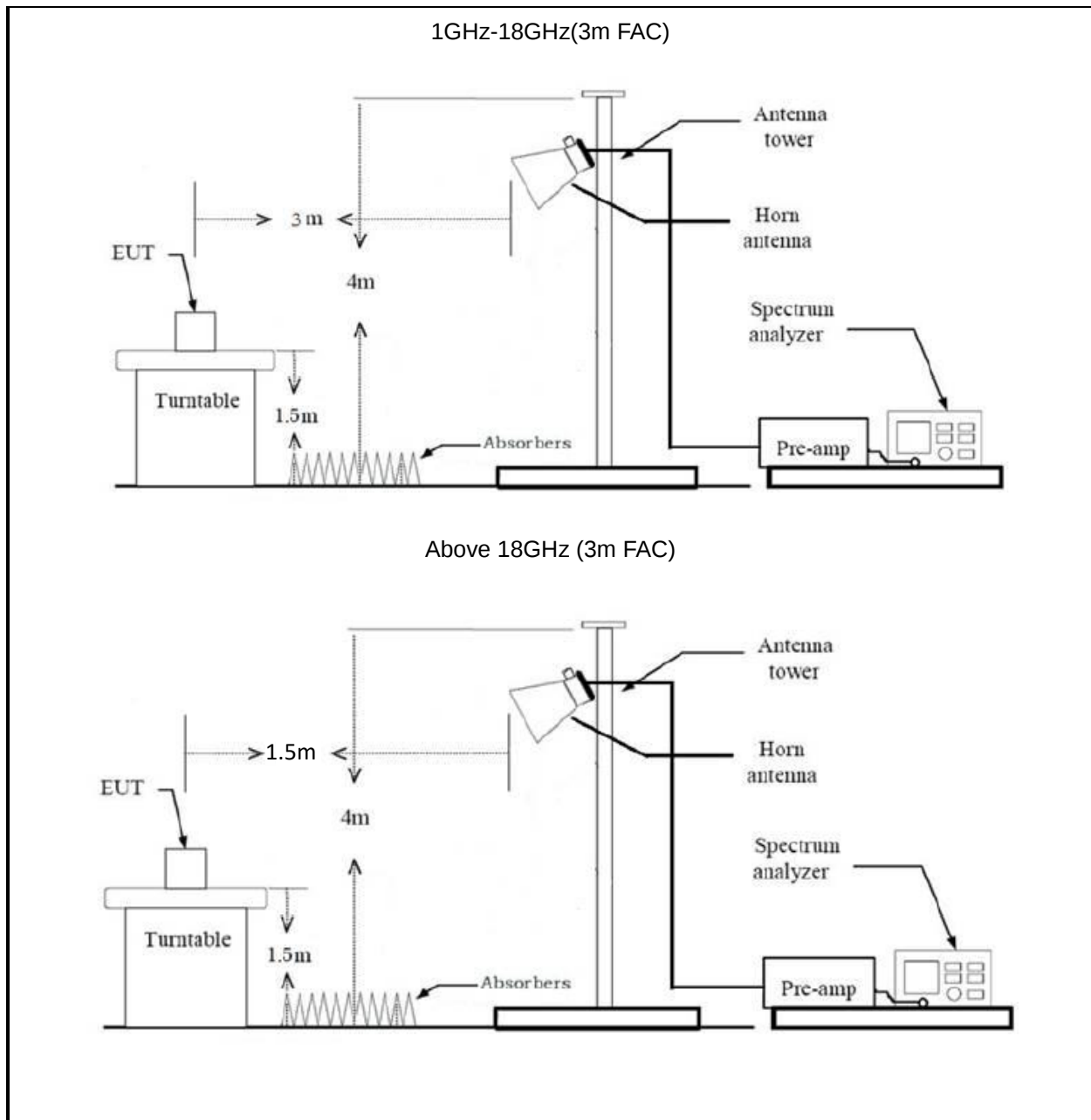
2) Radiated emission measurement:

Below 30MHz (3m SAC)



30MHz-1GHz (3m SAC)





2.4 Test Procedure

Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the

test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \log(\text{test distance} / \text{specification distance})$.

2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, ground-parallel)

b) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

c) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
4. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

Bandwidth Test:

1. Use the same setup for radiated above 1GHz, found the maximum fundamental level.
2. Change the spectrum analyzer setting for bandwidth testing
3. Test the bandwidth and record the result

2.5 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2
20dB Emission Bandwidth	ANSI C63.10-2020 Section 6.9.2
Field strength of fundamental and Radiated emission	ANSI C63.10-2020 Section 6.3&6.4&6.5&6.6&7.6

2.6 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2023/7/3	2024/7/2
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2023/7/3	2024/7/2
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2023/7/12	2024/7/11
COM-POWER	preamplifier	PAM-118A	18040152	2023/8/21	2024/8/20
COM-POWER	Amplifier	PAM-840A	461306	2023/8/8	2024/8/7
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2024/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2024/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2024/7/9
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	2023/9/15	2024/9/14
N/A	Coaxial Cable	N/A	NO.9	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.10	2023/8/8	2024/8/7
N/A	Coaxial Cable	N/A	NO.11	2023/8/8	2024/8/7
Audix	Test Software	E3	191218 V9	/	/

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliance
FCC §15.207(a)	AC Line Conducted Emissions	N/A
FCC §15.215(c)	20dB Emission Bandwidth	Report only
FCC §15.205, §15.209, §15.249	Field strength of fundamental and Radiated emission	Compliance

3.2 Limit

Test items	Limit															
AC Line Conducted Emissions	See details §15.207 (a)															
Field strength of fundamental and Radiated emission	The field strength of fundamental and harmonic emissions measured at 3 m shall not exceed the limits as below:															
	<table><tr><th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr><tr><td>902–928 MHz</td><td>50</td><td>500</td></tr><tr><td>2400–2483.5 MHz</td><td>50</td><td>500</td></tr><tr><td>5725–5875 MHz</td><td>50</td><td>500</td></tr><tr><td>24.0–24.25 GHz</td><td>250</td><td>2500</td></tr></table>	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
	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														
The field strength shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using an International Special Committee on Radio Interference (CISPR) quasi-peak detector.																
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.																
For frequencies above 1000 MHz, the field strength limits in above table 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.																

3.3 AC Line Conducted Emissions Test Data

Not applicable, the device only powered by battery

3.4 Radiated emission Test Data

9 kHz-30MHz:

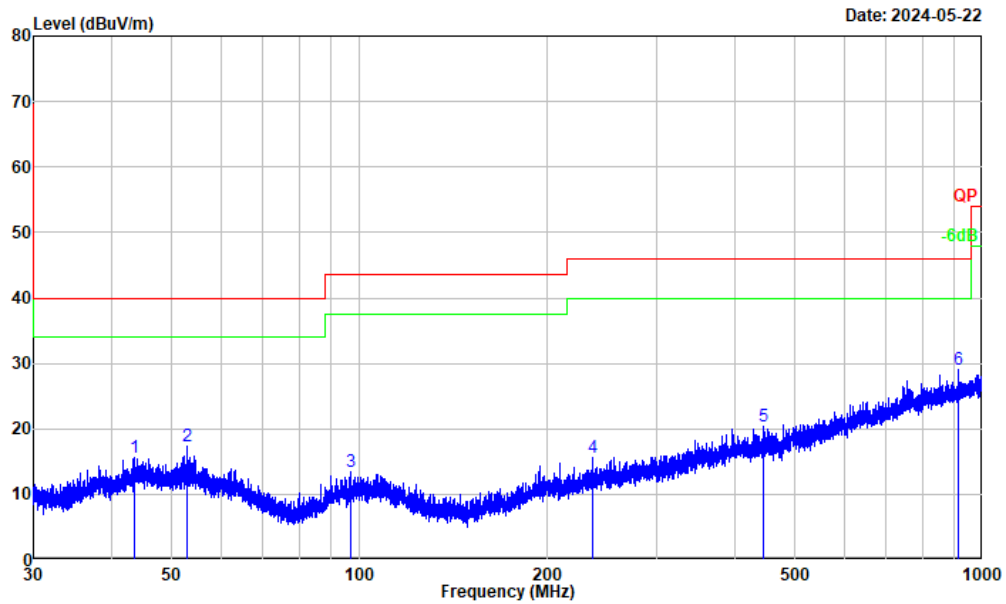
Test Date:	2024-05-22	Test By:	Bard Huang
Environment condition:	Temperature: 24.1°C; Relative Humidity:62%; ATM Pressure: 100.2kPa		

For radiated emissions below 30MHz, there were no emissions found within 20dB of limit.

30MHz-1GHz:

Test Date:	2024-05-22	Test By:	Bard Huang
Environment condition:	Temperature: 24.1°C; Relative Humidity:62%; ATM Pressure: 100.2kPa		

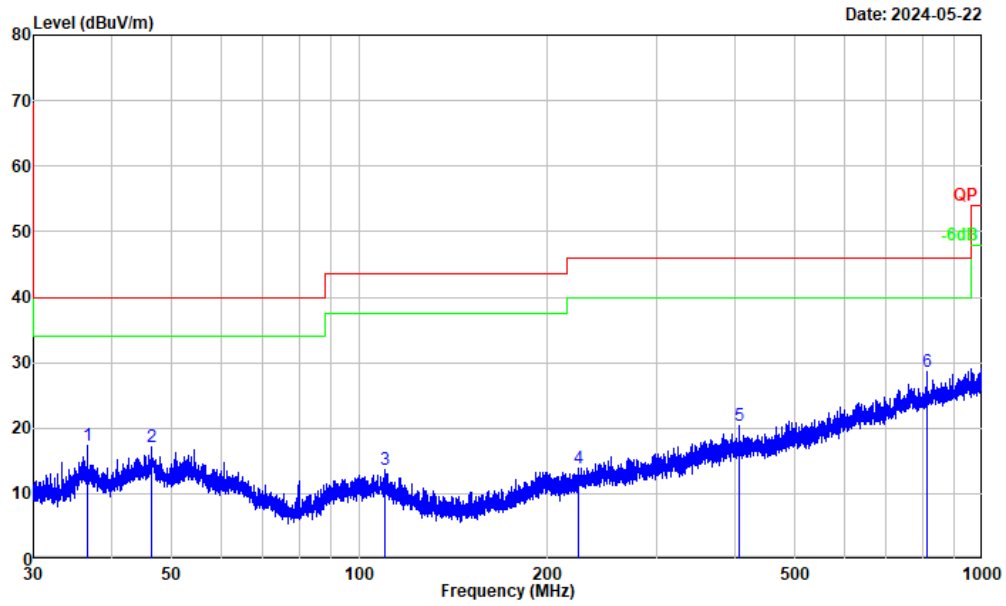
Low Channel:



Project No. : 2405T74421E
Test Mode : Transmitting
Test Voltage : Power by battery
Environment : 24.1°C/62%R.H./100.2kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : 2413MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	43.680	27.90	-12.33	15.57	40.00	-24.43	Peak
2	52.856	29.62	-12.29	17.33	40.00	-22.67	Peak
3	97.044	28.01	-14.59	13.42	43.50	-30.08	Peak
4	236.498	28.40	-12.79	15.61	46.00	-30.39	Peak
5	445.782	28.49	-8.21	20.28	46.00	-25.72	Peak
6	916.862	29.51	-0.46	29.05	46.00	-16.95	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

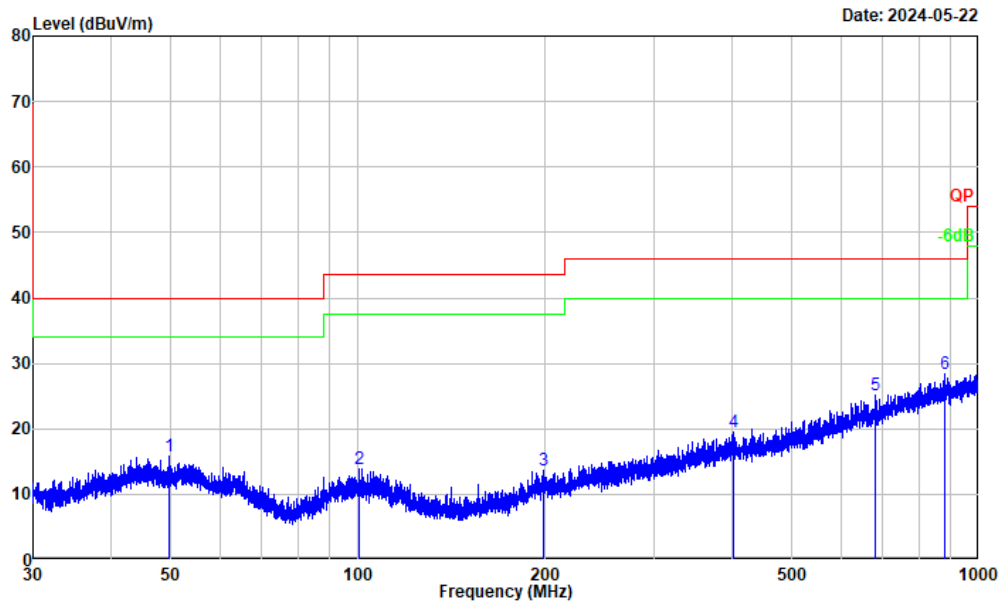


Project No. : 2405T74421E
Test Mode : Transmitting
Test Voltage : Power by battery
Environment : 24.1°C/62%R.H./100.2kPa
Tested by : Bard Huang
Polarization : vertical
Remark : 2413MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	36.654	31.61	-14.19	17.42	40.00	-22.58	Peak
2	46.383	29.30	-12.19	17.11	40.00	-22.89	Peak
3	110.055	28.00	-14.24	13.76	43.50	-29.74	Peak
4	225.167	27.27	-13.33	13.94	46.00	-32.06	Peak
5	406.755	28.81	-8.48	20.33	46.00	-25.67	Peak
6	815.232	30.47	-1.80	28.67	46.00	-17.33	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

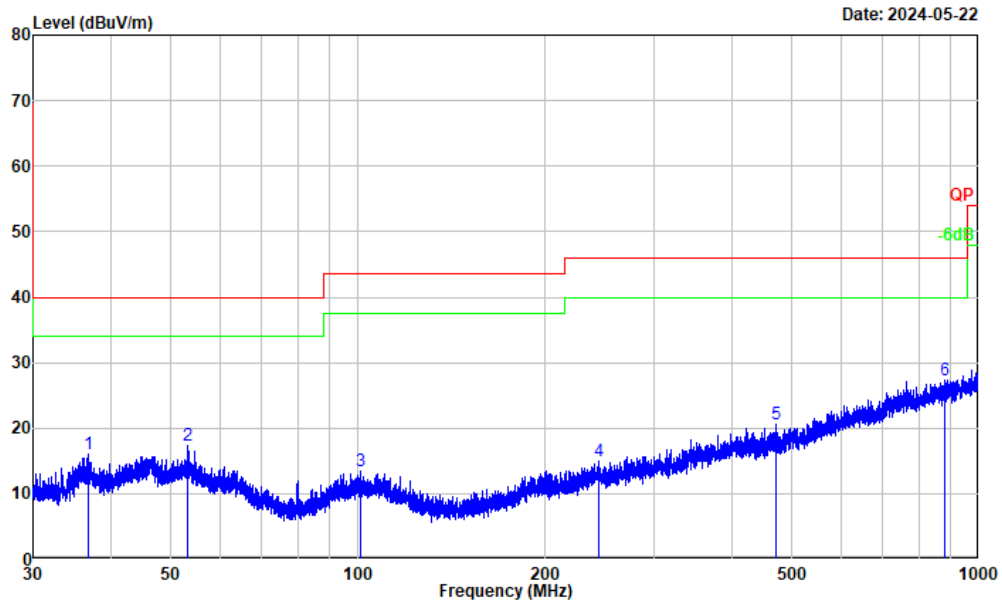
Middle Channel:



Project No. : 2405T74421E
Test Mode : Transmitting
Test Voltage : Power by battery
Environment : 24.1°C/62%R.H./100.2kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : 2441MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	49.601	28.04	-12.16	15.88	40.00	-24.12	Peak
2	100.596	28.08	-14.19	13.89	43.50	-29.61	Peak
3	198.722	27.57	-13.84	13.73	43.50	-29.77	Peak
4	403.204	28.04	-8.51	19.53	46.00	-26.47	Peak
5	680.822	29.15	-3.96	25.19	46.00	-20.81	Peak
6	881.779	29.31	-0.88	28.43	46.00	-17.57	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

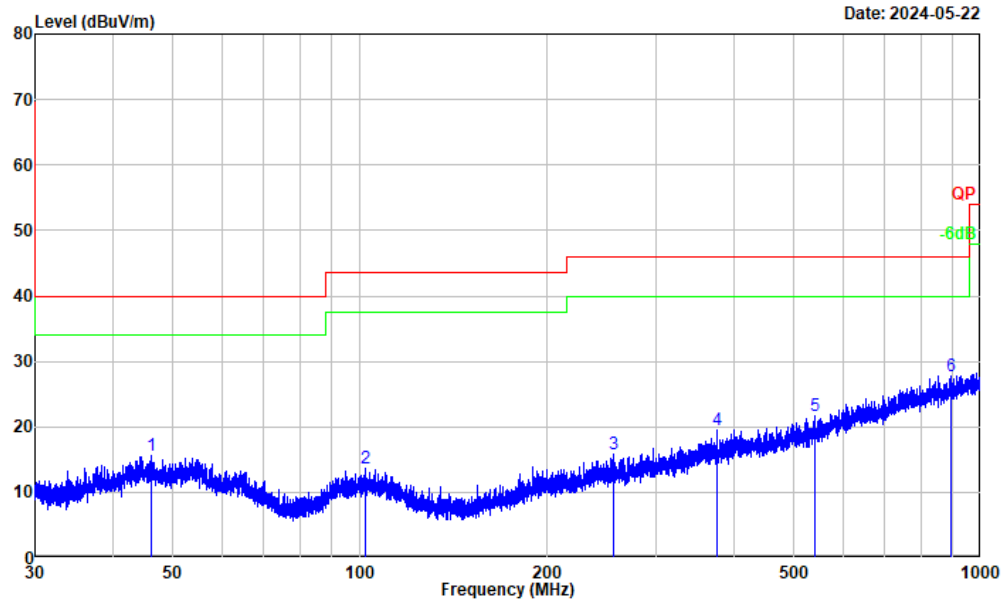


Project No. : 2405T74421E
Test Mode : Transmitting
Test Voltage : Power by battery
Environment : 24.1°C/62%R.H./100.2kPa
Tested by : Bard Huang
Polarization : vertical
Remark : 2441MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	36.767	30.10	-14.14	15.96	40.00	-24.04	Peak
2	53.252	29.59	-12.34	17.25	40.00	-22.75	Peak
3	101.038	27.59	-14.19	13.40	43.50	-30.10	Peak
4	244.189	27.41	-12.55	14.86	46.00	-31.14	Peak
5	470.892	28.65	-8.00	20.65	46.00	-25.35	Peak
6	883.714	28.07	-0.85	27.22	46.00	-18.78	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

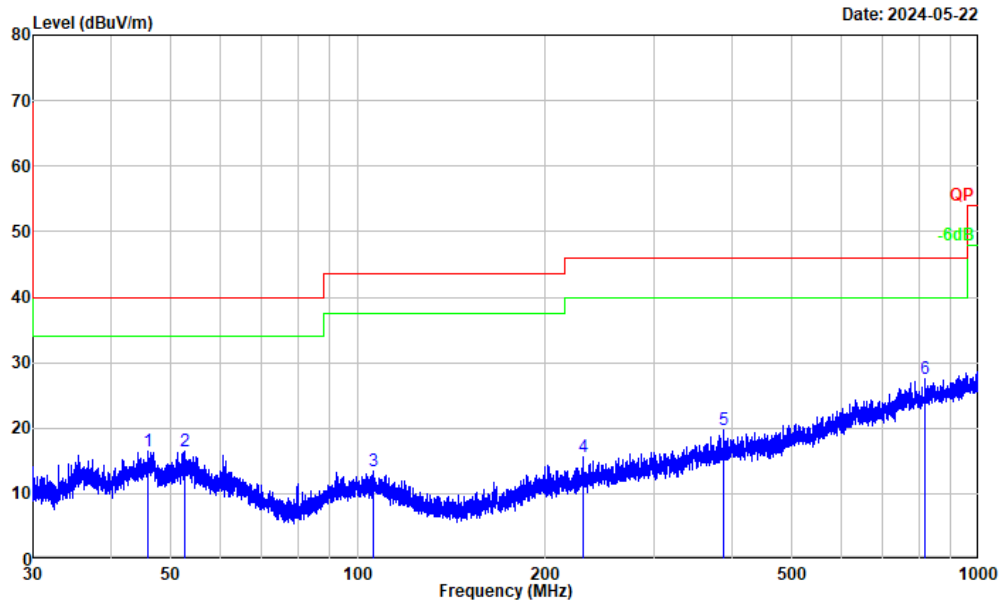
High Channel:



Project No. : 2405T74421E
Test Mode : Transmitting
Test Voltage : Power by battery
Environment : 24.1°C/62%R.H./100.2kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : 2471MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	46.079	27.71	-12.19	15.52	40.00	-24.48	Peak
2	102.017	27.63	-14.07	13.56	43.50	-29.94	Peak
3	255.804	28.07	-12.31	15.76	46.00	-30.24	Peak
4	376.387	28.64	-9.22	19.42	46.00	-26.58	Peak
5	540.383	28.24	-6.56	21.68	46.00	-24.32	Peak
6	896.198	28.58	-0.74	27.84	46.00	-18.16	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain



Project No. : 2405T74421E
Test Mode : Transmitting
Test Voltage : Power by battery
Environment : 24.1°C/62%R.H./100.2kPa
Tested by : Bard Huang
Polarization : vertical
Remark : 2471MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	45.938	28.58	-12.19	16.39	40.00	-23.61	Peak
2	52.648	28.67	-12.28	16.39	40.00	-23.61	Peak
3	106.029	27.47	-13.95	13.52	43.50	-29.98	Peak
4	230.763	28.55	-13.00	15.55	46.00	-30.45	Peak
5	387.606	28.53	-8.90	19.63	46.00	-26.37	Peak
6	817.738	29.22	-1.79	27.43	46.00	-18.57	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Remark:

Result = Reading + Factor

Factor = Antenna factor + Cable loss – Amplifier gain

Over Limit = Result – Limit

Above 1GHz:

Test Date:	2024-06-20	Test By:	Luke Li
Environment condition:	Temperature: 23.5°C; Relative Humidity:63%; ATM Pressure:99.9kPa		

Field strength of Peak:

Frequency (MHz)	Reading level (dBμV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
Low Channel							
2400.000	56.46	horizontal	-2.83	53.63	74.00	-20.37	Band edge
2400.000	48.98	vertical	-2.83	46.15	74.00	-27.85	Band edge
2413.000	97.87	horizontal	-2.83	95.04	114.00	-18.96	Fundamental
4826.000	66.78	horizontal	-0.15	66.63	74.00	-7.37	Harmonic
2413.000	85.60	vertical	-2.83	82.77	114.00	-31.23	Fundamental
4826.000	53.70	vertical	-0.15	53.55	74.00	-20.45	Harmonic
Middle Channel							
2441.000	97.69	horizontal	-2.82	94.87	114.00	-19.13	Fundamental
4882.000	60.11	horizontal	0.10	60.21	74.00	-13.79	Harmonic
2441.000	85.14	vertical	-2.82	82.32	114.00	-31.68	Fundamental
4882.000	58.48	vertical	0.10	58.58	74.00	-15.42	Harmonic
High Channel							
2483.500	53.32	horizontal	-2.75	50.57	74.00	-23.43	Band edge
2483.500	48.39	vertical	-2.75	45.64	74.00	-28.36	Band edge
2471.000	96.79	horizontal	-2.78	94.01	114.00	-19.99	Fundamental
4942.000	65.67	horizontal	0.24	65.91	74.00	-8.09	Harmonic
2471.000	80.87	vertical	-2.78	78.09	114.00	-35.91	Fundamental
4942.000	56.15	vertical	0.24	56.39	74.00	-17.61	Harmonic

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude – Limit

The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

Field strength of average:

Frequency (MHz)	Peak level (dBμV/m)	Polar (H/V)	Duty Cycle Factor (dB)	Average Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
Low Channel							
2400.000	53.63	horizontal	-19.72	33.91	54.00	-20.09	Band edge
2400.000	46.15	vertical	-19.72	26.43	54.00	-27.57	Band edge
2413.000	95.04	horizontal	-19.72	75.32	94.00	-18.68	Fundamental
4826.000	66.63	horizontal	-19.72	46.91	54.00	-7.09	Harmonic
2413.000	82.77	vertical	-19.72	63.05	94.00	-30.95	Fundamental
4826.000	53.55	vertical	-19.72	33.83	54.00	-20.17	Harmonic
Middle Channel							
2441.000	94.87	horizontal	-19.72	75.15	94.00	-18.85	Fundamental
4882.000	60.21	horizontal	-19.72	40.49	54.00	-13.51	Harmonic
2441.000	82.32	vertical	-19.72	62.60	94.00	-31.4	Fundamental
4882.000	58.58	vertical	-19.72	38.86	54.00	-15.14	Harmonic
High Channel							
2483.500	50.57	horizontal	-19.72	30.85	54.00	-23.15	Band edge
2483.500	45.64	vertical	-19.72	25.92	54.00	-28.08	Band edge
2471.000	94.01	horizontal	-19.72	74.29	94.00	-19.71	Fundamental
4942.000	65.91	horizontal	-19.72	46.19	54.00	-7.81	Harmonic
2471.000	78.09	vertical	-19.72	58.37	94.00	-35.63	Fundamental
4942.000	56.39	vertical	-19.72	36.67	54.00	-17.33	Harmonic

Remark:

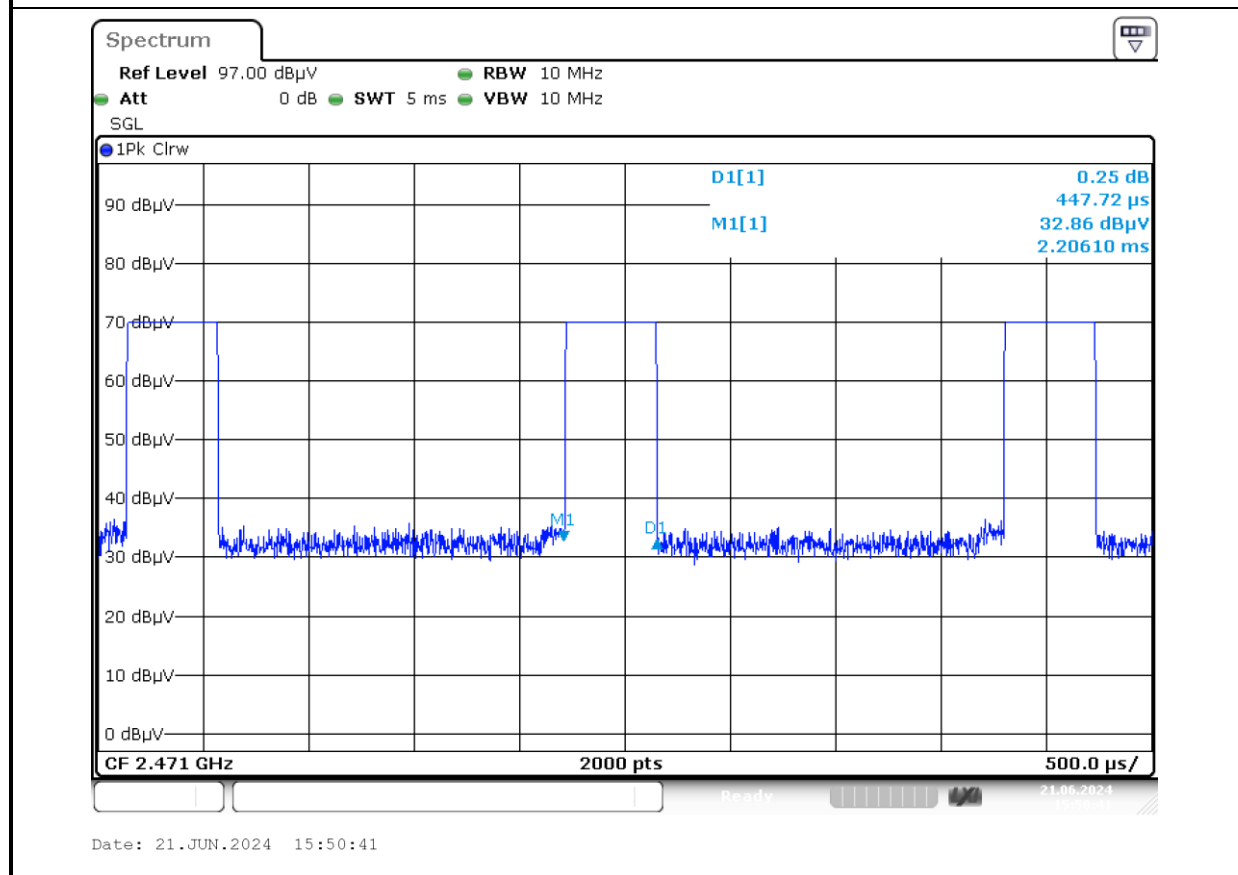
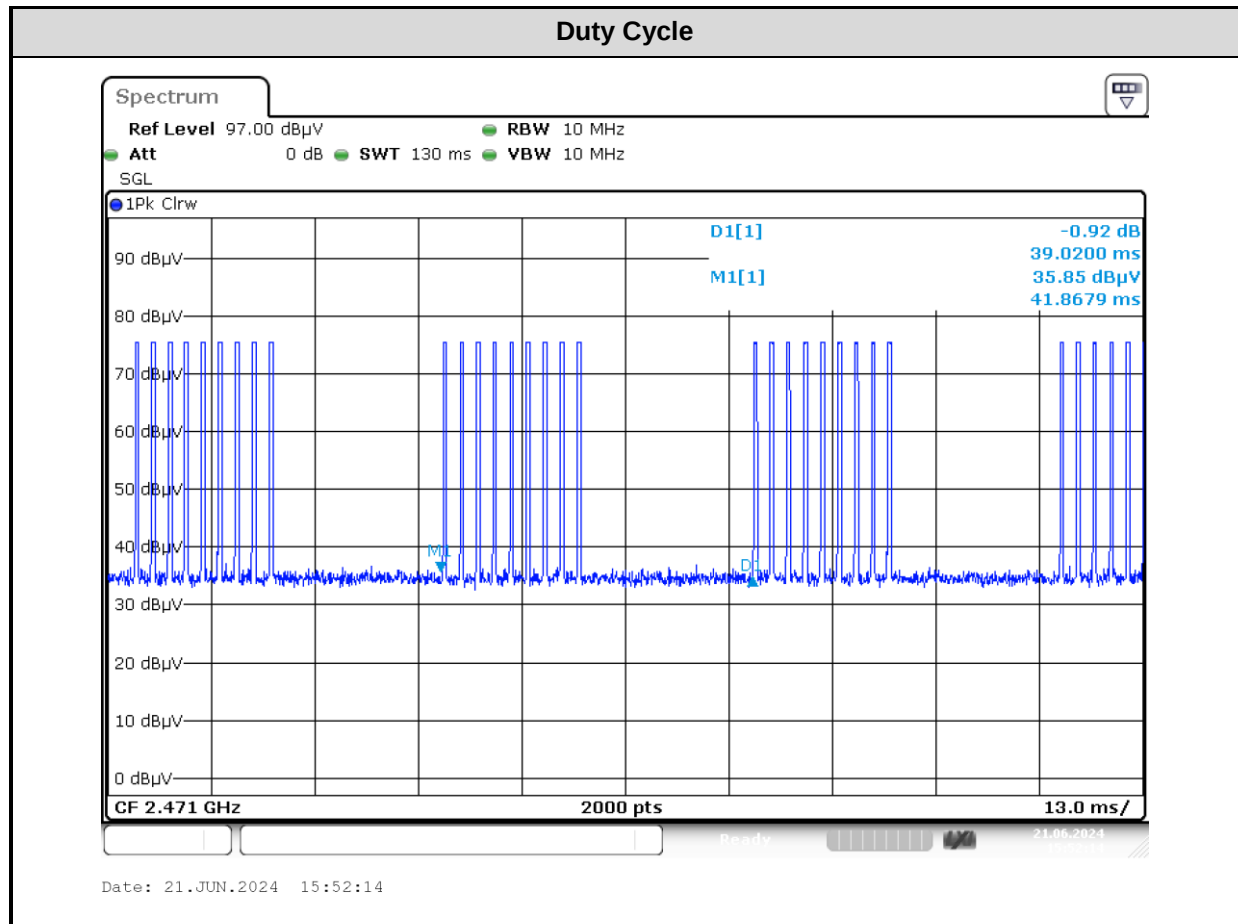
Average Amplitude= Peak level + Duty Cycle Factor

Margin= Average Amplitude - Limit

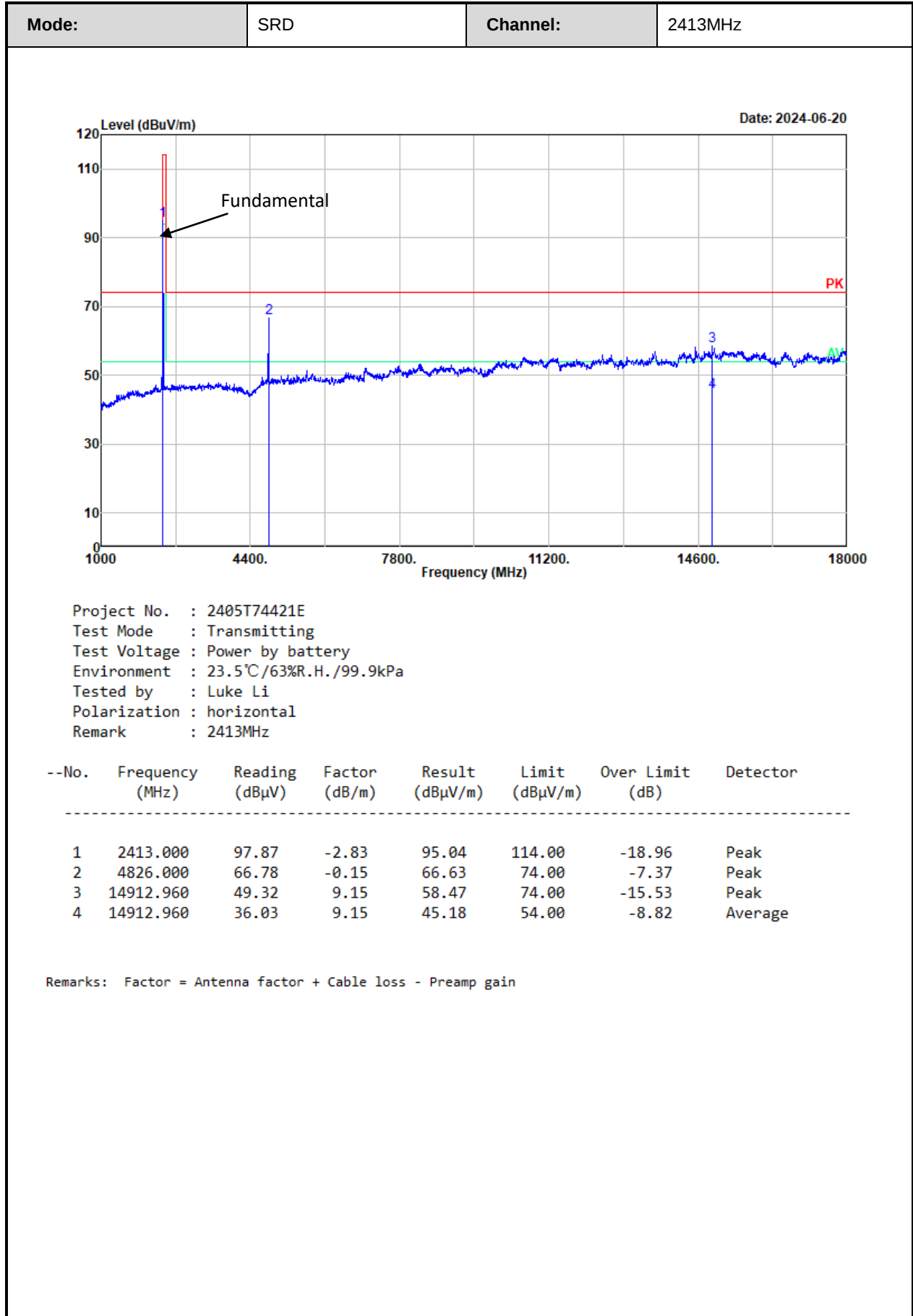
Duty Cycle=Ton/Tp=0.448*9/39.020=10.33%

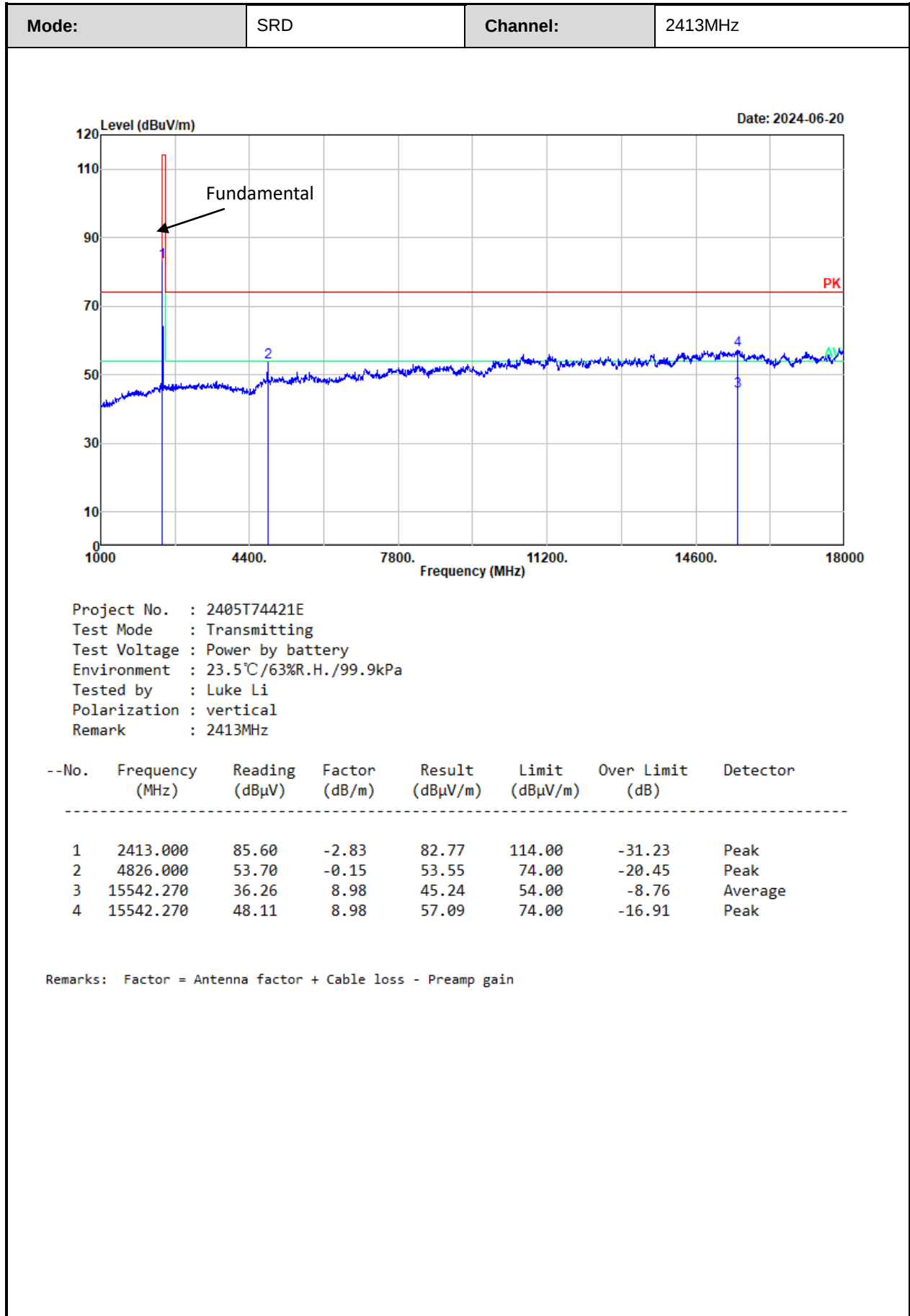
Duty Cycle Factor=20*log(Duty Cycle)=-19.72

Test Date:	2024-06-21	Test By:	Luke Li
Environment condition:	Temperature: 22.9°C; Relative Humidity:67%; ATM Pressure: 100.0kPa		



Test plot for example as below:



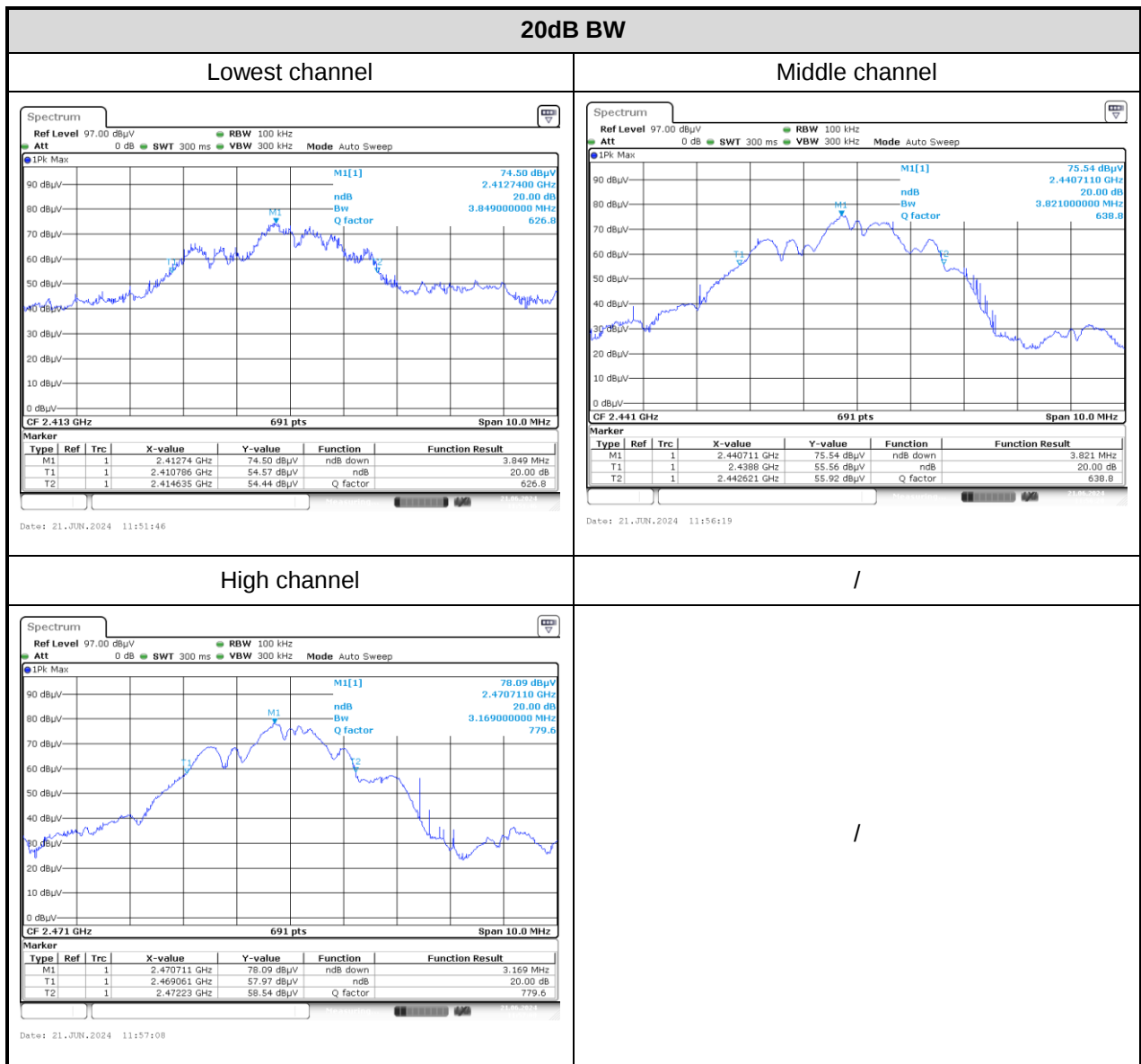


3.5 Bandwidth Test Data

Test Date:	2024-06-21	Test By:	Luke Li
Environment condition:	Temperature: 22.9°C; Relative Humidity:67%; ATM Pressure: 100.0kPa		

Channel	20dB BW [MHz]
Low	3.849
Middle	3.821
High	3.169

Test Plots:



4 Test Setup Photo

Please refer to the attachment 2405T74421E Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2405T74421E External photo and 2405T74421E Internal photo.

---End of Report---