



FCC TEST REPORT

FCC ID:2BMSO-N101

Report Number..... : ZKT-260313L2585E-1

Date of Test..... Apr.08, 2026 to Jun.24, 2026

Date of issue : Jun.24, 2026

Total number of pages 60

Test Result : PASS

Testing Laboratory..... : Shenzhen ZKT Technology Co., Ltd.

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : Shenzhen Yuanjing intelligent Technology Co., LTD

Address : 18th Floor, Tower C, Coolpad Building, Keyuan Ave & Baoshen Rd, Shenzhen, Guangdong, China

Manufacturer's name : Shenzhen Yuanjing intelligent Technology Co., LTD

Address : 18th Floor, Tower C, Coolpad Building, Keyuan Ave & Baoshen Rd, Shenzhen, Guangdong, China

Test specification:

Standard..... : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10-2020+Cor. 1-2023

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No. : TRF-EL-112_V0

Test Report Form(s) Originator : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : Wireless Gateway

Trademark : LOPKIN

Model/Type reference..... : N101

Ratings..... : AC Input 100-240VAC, 50/60Hz



Testing procedure and testing location:

Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Tested by (name + signature): Jim Liu

Reviewer (name + signature).....: Tom Zou

Approved (name + signature): Lake Xie





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1.VERSION

Report No.	Version	Description	Approved
ZKT-260313L2585E-1	Rev.01	Initial issue of report	Jun.24, 2026



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Judgment	Remark
FCC part 15.203/15.247 (c)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report



2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add.: 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street,
Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 927491

Designation Number: CN1431

IC Registered No.: 27033

CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$ · where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ · providing a level of confidence of approximately 95 % ·

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8dB
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59°C



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Wireless Gateway
Model No.:	N101
Model Different.:	No series model
Serial No.:	N/A
Sample ID	ZKT-260313L2585
Sample(s) Status:	Engineer sample
Operation Frequency:	903MHz~927MHz
Channel Numbers:	13
Channel Separation:	2MHz,4 MHz
Modulation Type:	OFDM
Antenna Type:	Dipole ANT
Antenna gain:	2.27 dBi
Power supply:	100-240VAC, 50/60Hz
SWITCHING POWER ADAPTER:	Input: 100-240VAC, 50/60Hz, 0.3A Output: 5V, 1A Model: TPA-418G050100UU01 Manufacturer: Shenzhen Tianyin Electronics Co., Ltd. 1st-6th Floor, Building 13, Tangtou Nangang third industrial zone, Tangtou community, Shiyan Town, Bao'an District, Shengzhen, Guangdong, P.R.China



Operation Frequency each of channel

Channel List	OFDM 1M		OFDM 2M		OFDM 4M		OFDM 8M	
	CH	Freq.(MHz)	CH	Freq.(MHz)	CH	Freq.(MHz)	CH	Freq.(MHz)
	1	/	1	903	1	906	1	/
	2	/	2	905	2	910	2	/
	3	/	3	907	3	914	3	/
	4	/	4	909	4	918		
	5	/	5	911	5	922		
	6	/	6	913	6	926		
	7	/	7	915				
	8	/	8	917				
	9	/	9	919				
	10	/	10	921				
	11	/	11	923				
	12	/	12	925				
	13	/	13	927				
	14	/						
	15	/						
	16	/						
	17	/						
	18	/						
	19	/						
	20	/						
	21	/						
	22	/						
	23	/						
	24	/						
	25	/						
	26	/						

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Mode	Available Frequency (MHz)	Tested Frequency (MHz)
802.11 ah 2M	903 to 927	903,915,927
802.11 ah 4M	906 to 926	906,914,926



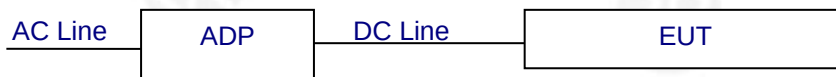
3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Charging mode	Keep the EUT in Charging mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Test Software	MobaXterm.exe
Power level setup	Default.

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission



Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	ADP	Tianyin	TPA-418G050100U U01	No	/

Item	Shielded Type	Ferrite Core	Length	Note
1	USB	NO	0.8m	/
/	/	/	/	/
/	/	/	/	/

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS Conduction Emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 23, 2025	Sep. 22, 2026
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 19, 2025	Sep. 18, 2026
3	Test Cable	JunCoax	C-01	ZKT-001	N/A	May. 22, 2025	May. 22, 2026
4	Test Cable	JunCoax	C-01	ZKT-001	N/A	May. 22, 2026	May. 21, 2027
5	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 24, 2025	Oct. 23, 2026
6	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation Emissions & Radiation Spurious Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Oct. 24, 2025	Oct. 23, 2026
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	00877	N/A	Sep. 20, 2025	Sep. 19, 2026
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 20, 2025	Sep. 19, 2026
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2025	Sep. 29, 2026
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Sep. 20, 2025	Sep. 19, 2026
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 19, 2025	Sep. 18, 2026
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 19, 2025	Sep. 18, 2026
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Oct. 24, 2025	Oct. 23, 2026
11	Test Cable	JunCoax	R-01	ZKT-002	N/A	May. 22, 2025	May. 22, 2026
12	Test Cable	JunCoax	R-01	ZKT-002	N/A	May. 22, 2026	May. 21, 2027
13	Test Cable	JunCoax	R-02	ZKT-003	N/A	May. 22, 2025	May. 22, 2026
14	Test Cable	JunCoax	R-02	ZKT-003	N/A	May. 22, 2026	May. 21, 2027
15	Test Cable	JunCoax	R-03	ZKT-004	N/A	May. 22, 2025	May. 22, 2026
16	Test Cable	JunCoax	R-03	ZKT-004	N/A	May. 22, 2026	May. 21, 2027
17	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
18	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
19	Turntable	MF	MF-7802BS	N/A	N/A	\	\
20	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



RF Conducted Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	Test Cable	JunCoax	RF-01	ZKT-005	N/A	May. 22, 2025	May. 22, 2026
4	Test Cable	JunCoax	RF-01	ZKT-005	N/A	May. 22, 2026	May. 21, 2027
5	Test Cable	JunCoax	RF-02	ZKT-006	N/A	May. 22, 2025	May. 22, 2026
6	Test Cable	JunCoax	RF-02	ZKT-006	N/A	May. 22, 2026	May. 21, 2027
7	Test Cable	JunCoax	RF-03	ZKT-007	N/A	May. 22, 2025	May. 22, 2026
8	Test Cable	JunCoax	RF-03	ZKT-007	N/A	May. 22, 2026	May. 21, 2027
9	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Sep. 19, 2025	Sep. 18, 2026
10	Signal Generator	Agilent	N5182A	N/A	A.01.87	Sep. 20, 2025	Sep. 19, 2026
11	Magnetic Field Probe Tester	Narda	ELT-400	0-0344/M-1752	N/A	Sep. 25, 2025	Sep. 24, 2026
12	SHIELD BOX	TESCOM	TC-5970C	5970C015553	N/A	Dec. 18, 2025	Dec. 17, 2026
13	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 28, 2025	Sep. 27, 2026
14	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Sep. 19, 2025	Sep. 18, 2026
15	D.C. Power Supply	LongWei	TPR-6405 D	N/A	N/A	\	\
16	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10-2020+Cor. 1-2023
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quas -peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

4.1.2 TEST PROCEDURE

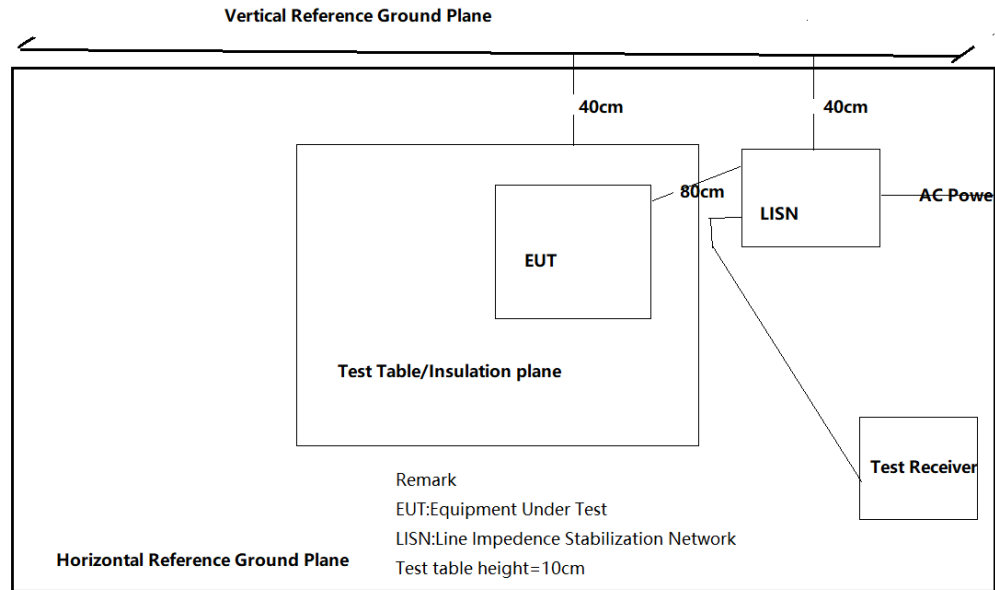
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

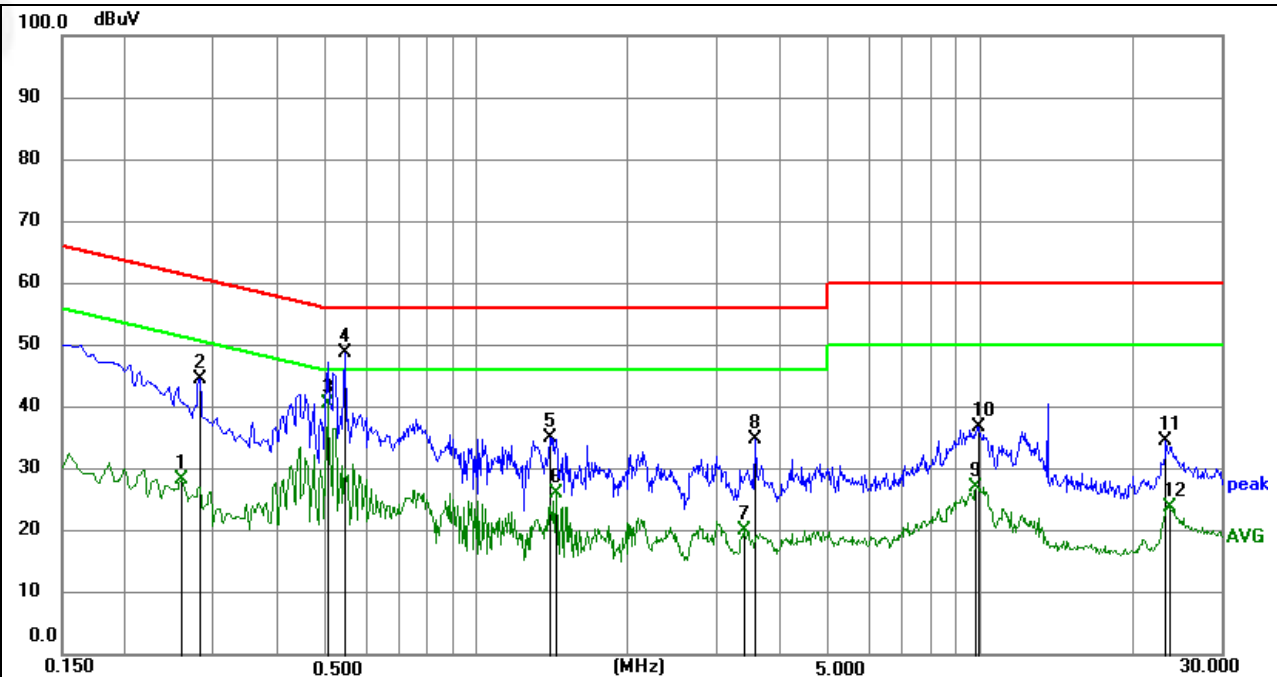
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to Charging during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.



4.1.6 TEST RESULT

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Phase:	L
Test Voltage :	AC 120V/60Hz		



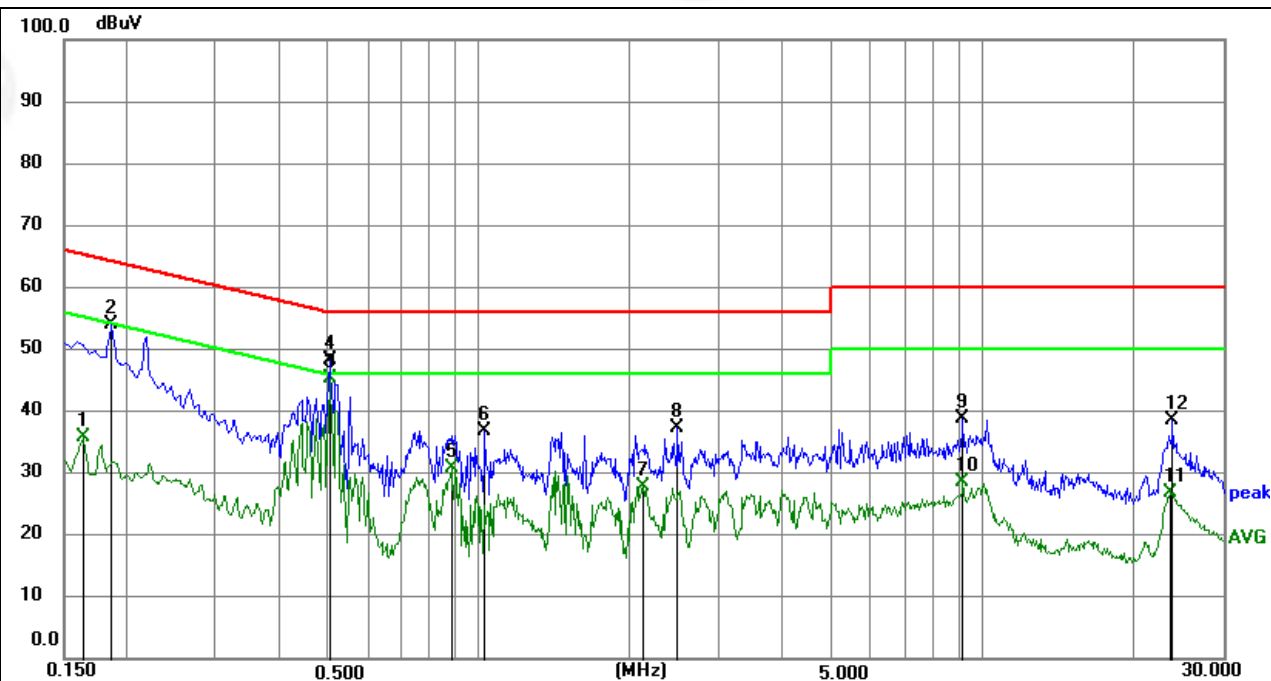
No.↵	Frequency↵	Reading↵	Correct↵	Result↵	Limit↵	Margin↵	Remark↵
↵	(MHz)↵	(dBuV)↵	(dB)↵	(dBuV)↵	(dBuV)↵	(dB)↵	↵
1↵	0.2580↵	7.84↵	20.34↵	28.18↵	51.50↵	-23.32↵	AVG↵
2↵	0.2805↵	24.19↵	20.40↵	44.59↵	60.80↵	-16.21↵	peak↵
3↵	0.5055↵	19.98↵	20.60↵	40.58↵	46.00↵	-5.42↵	AVG↵
4↵	0.5460↵	28.18↵	20.60↵	48.78↵	56.00↵	-7.22↵	peak↵
5↵	1.4010↵	14.75↵	20.37↵	35.12↵	56.00↵	-20.88↵	peak↵
6↵	1.4370↵	5.69↵	20.35↵	26.04↵	46.00↵	-19.96↵	AVG↵
7↵	3.3900↵	-0.38↵	20.43↵	20.05↵	46.00↵	-25.95↵	AVG↵
8↵	3.5745↵	14.34↵	20.39↵	34.73↵	56.00↵	-21.27↵	peak↵
9↵	9.8159↵	6.62↵	20.47↵	27.09↵	50.00↵	-22.91↵	AVG↵
10↵	9.8880↵	16.37↵	20.47↵	36.84↵	60.00↵	-23.16↵	peak↵
11↵	23.2755↵	13.94↵	20.56↵	34.50↵	60.00↵	-25.50↵	peak↵
12↵	23.6715↵	3.33↵	20.51↵	23.84↵	50.00↵	-26.16↵	AVG↵

Notes:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Phase:	N
Test Voltage :	AC 120V/60Hz		



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1635	15.41	20.35	35.76	55.28	-19.52	AVG
2	0.1860	33.66	20.38	54.04	64.21	-10.17	peak
3	0.5053	24.89	20.27	45.16	46.00	-0.84	AVG
4	0.5054	27.93	20.27	48.20	56.00	-7.80	peak
5	0.8833	10.45	20.43	30.88	46.00	-15.12	AVG
6	1.0275	16.50	20.40	36.90	56.00	-19.10	peak
7	2.1164	7.52	20.23	27.75	46.00	-18.25	AVG
8	2.4810	16.85	20.32	37.17	56.00	-18.83	peak
9	9.1183	18.03	20.64	38.67	60.00	-21.33	peak
10	9.1183	7.81	20.64	28.45	50.00	-21.55	AVG
11	23.5680	6.11	20.82	26.93	50.00	-23.07	AVG
12	23.8064	17.70	20.85	38.55	60.00	-21.45	peak

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor



4.2 RADIATED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10-2020+Cor. 1-2023				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

4.2.1 RADIATED EMISSION LIMITS

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m) =20log Emission level (uV/m).



4.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

Note:

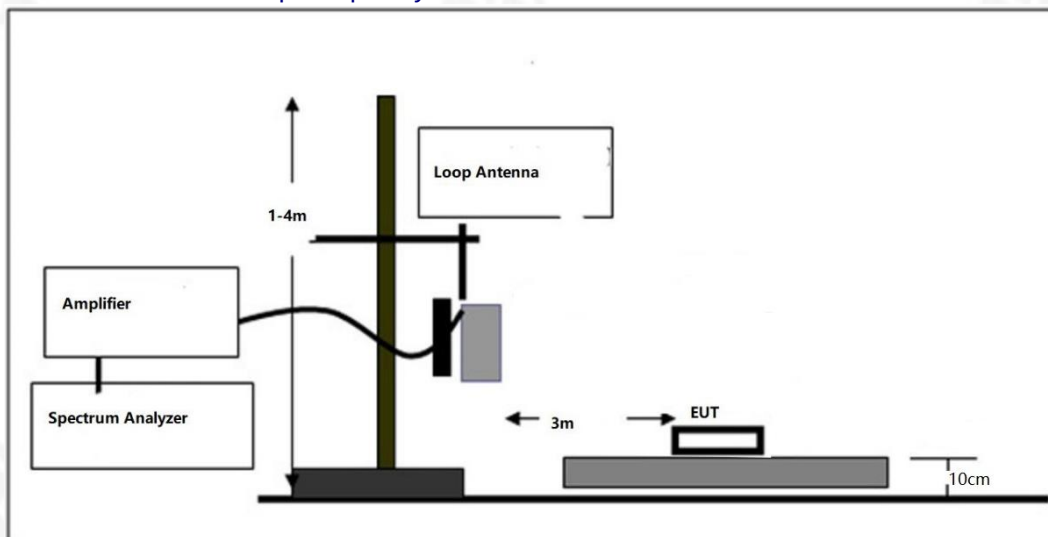
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

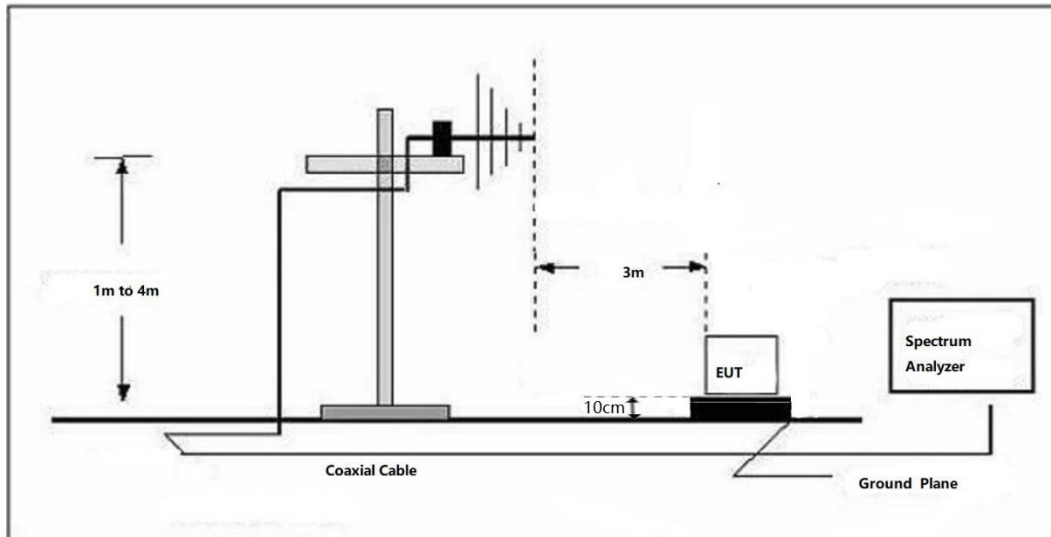
4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

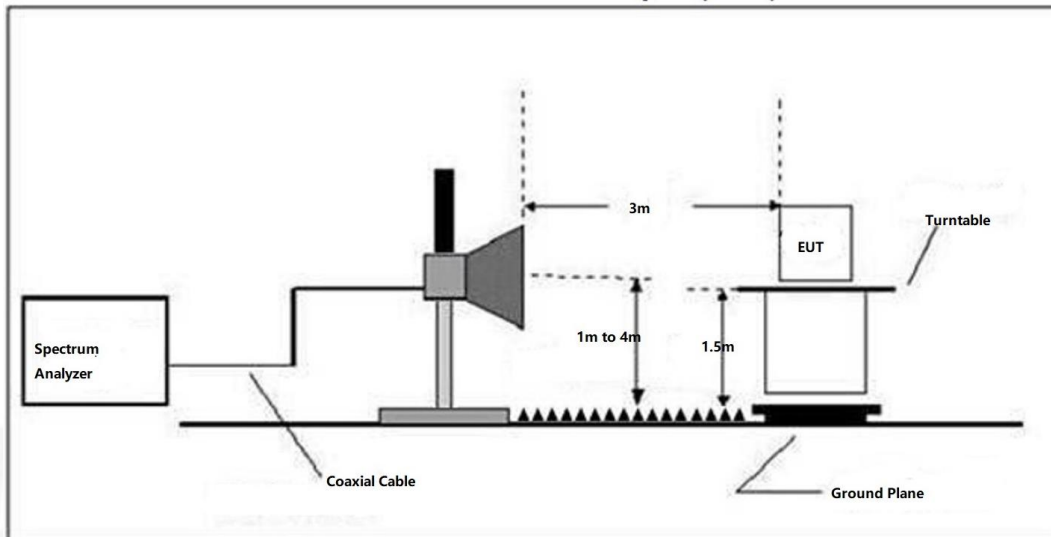




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

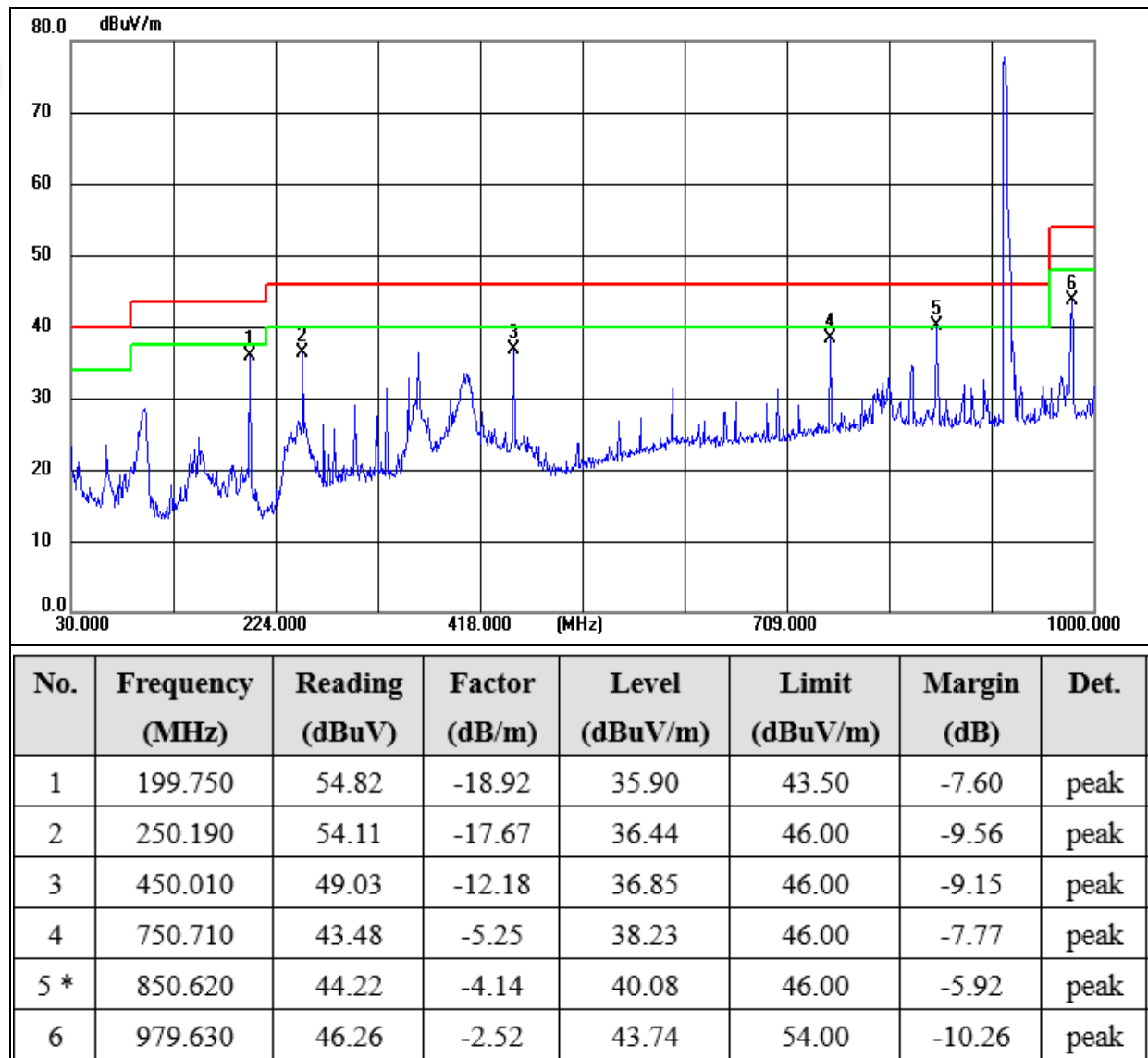
4.2.6 TEST RESULTS (Between 9KHz – 30 MHz)

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) , the test result no need to reported.



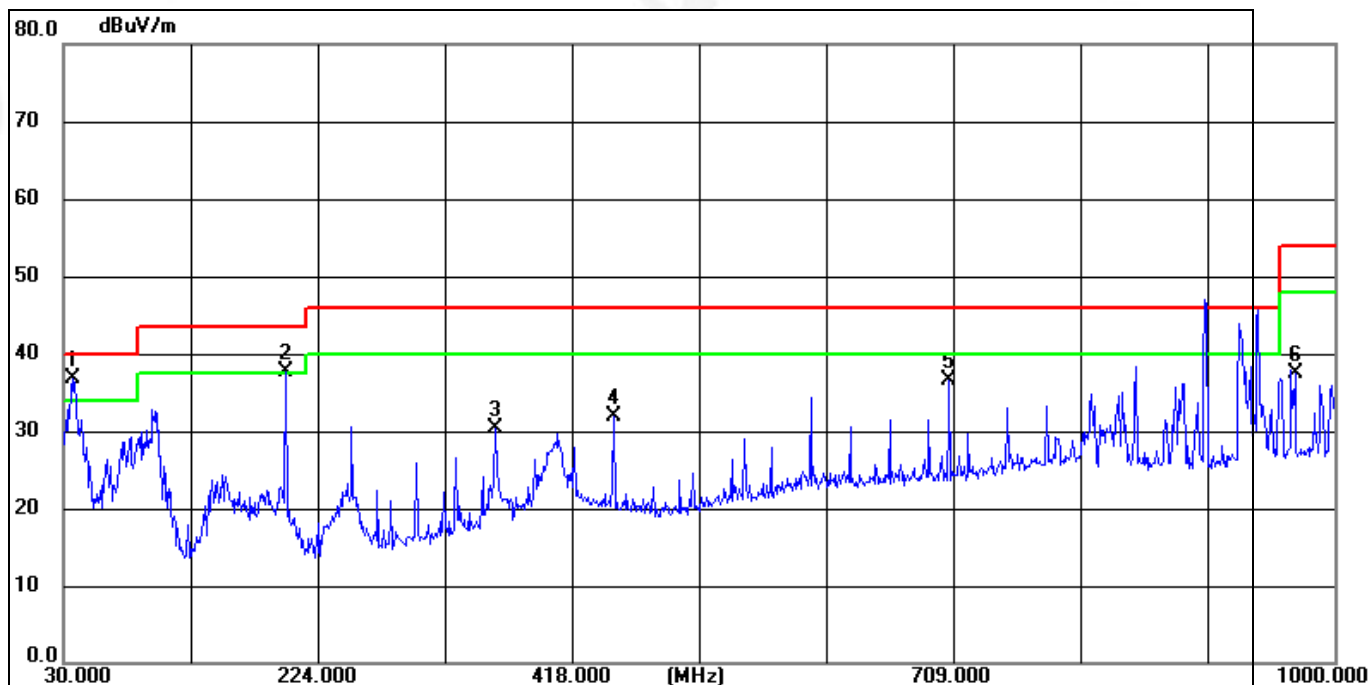
All modes have been tested, 802.11 ah-4M the worst result as bellow:

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		





Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	36.790	53.81	-16.94	36.87	40.00	-3.13	peak
2 !	199.750	56.58	-18.92	37.66	43.50	-5.84	peak
3	359.800	45.08	-14.76	30.32	46.00	-15.68	peak
4	450.010	44.09	-12.18	31.91	46.00	-14.09	peak
5	706.090	42.84	-6.38	36.46	46.00	-9.54	peak
6	969.930	40.20	-2.65	37.55	54.00	-16.45	peak

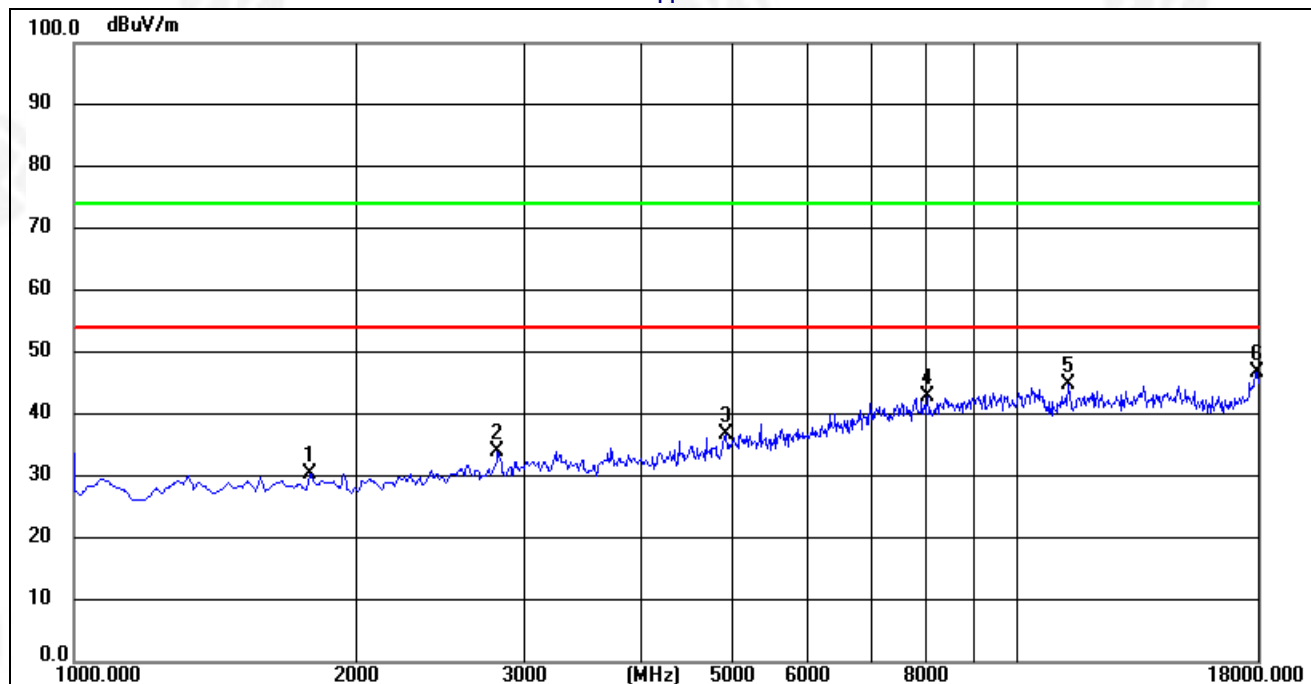
Remarks:

- 1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2.The emission levels of other frequencies are very lower than the limit and not show in test report.



all modes were tested, but only the worst case 802.11ah-4M test data were shown below:

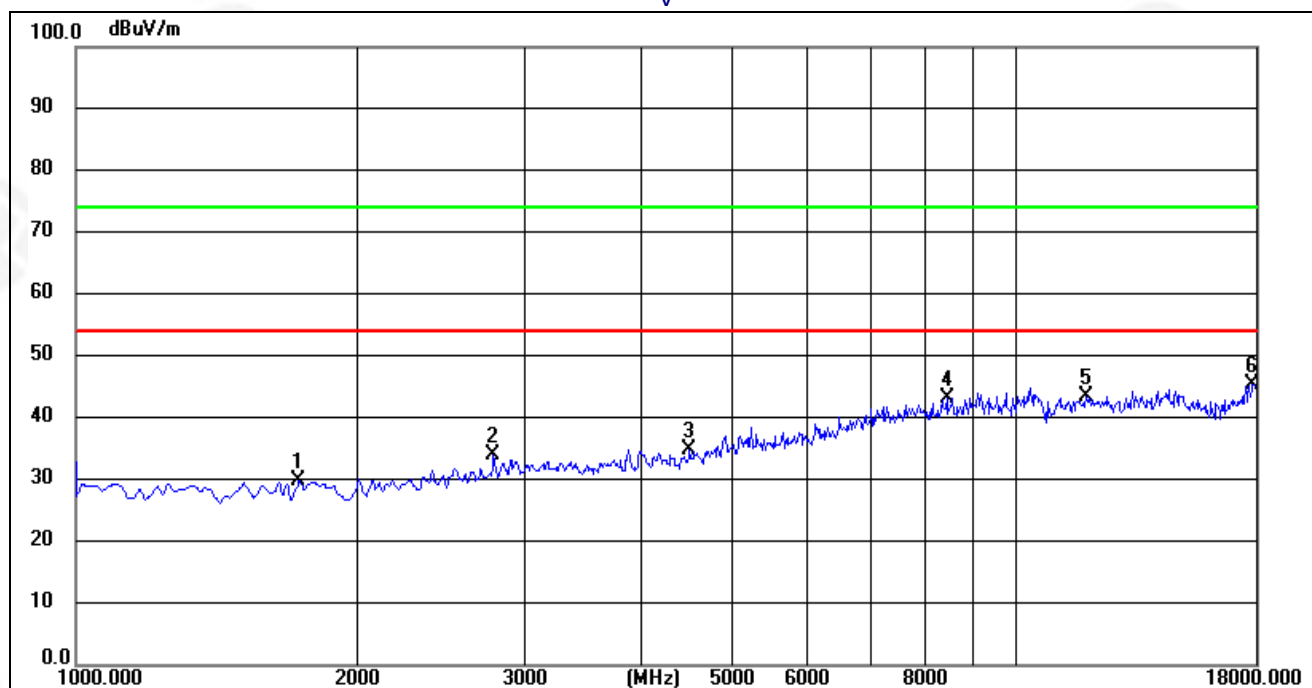
802.11ah -4M: 906M
H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1782.000	56.74	-26.22	30.52	74.00	-43.48	peak
2	2819.000	56.26	-22.22	34.04	74.00	-39.96	peak
3	4910.000	54.49	-17.66	36.83	74.00	-37.17	peak
4	8038.000	53.00	-10.14	42.86	74.00	-31.14	peak
5	11336.000	50.72	-5.76	44.96	74.00	-29.04	peak
6 *	17966.000	47.90	-1.04	46.86	74.00	-27.14	peak



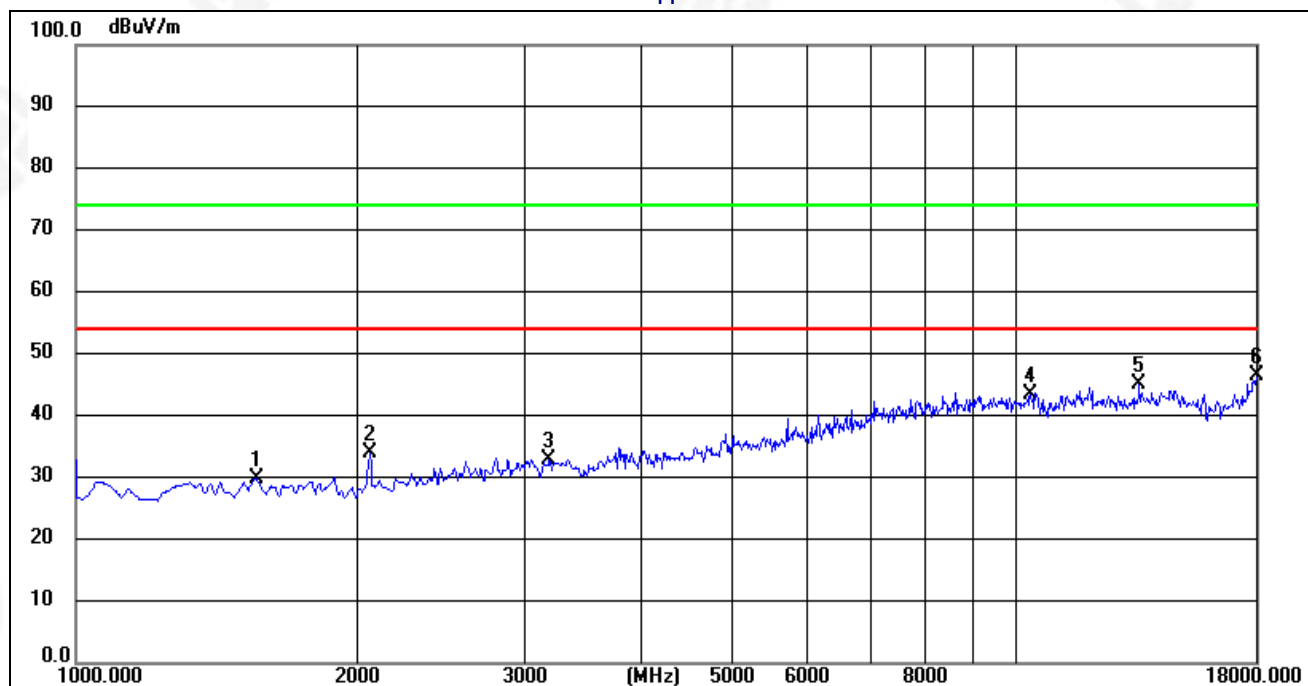
V



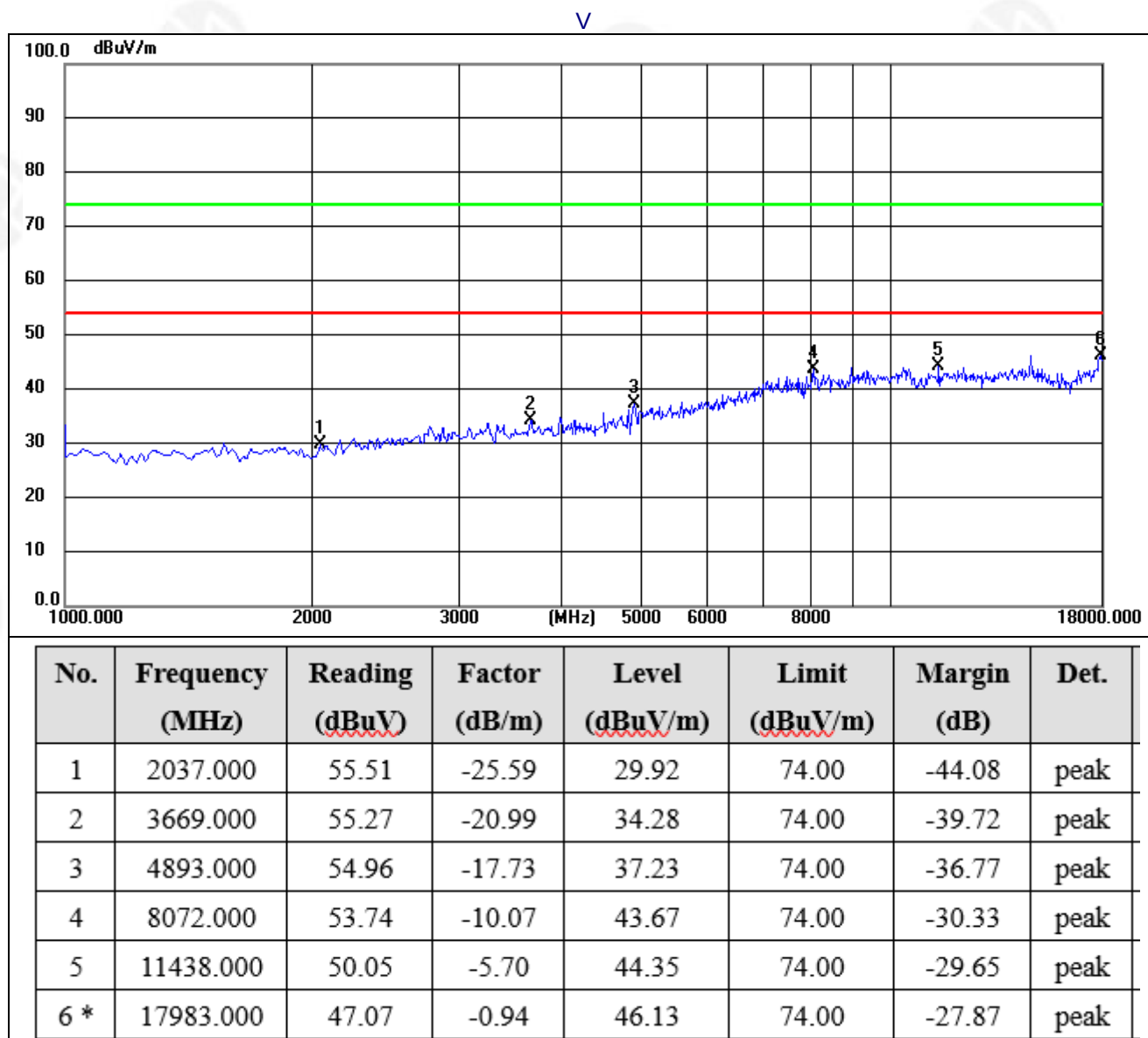
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1731.000	56.20	-26.33	29.87	74.00	-44.13	peak
2	2785.000	56.38	-22.36	34.02	74.00	-39.98	peak
3	4502.000	53.98	-19.03	34.95	74.00	-39.05	peak
4	8446.000	52.39	-9.20	43.19	74.00	-30.81	peak
5	11880.000	48.86	-5.27	43.59	74.00	-30.41	peak
6 *	17864.000	47.20	-1.69	45.51	74.00	-28.49	peak



802.11ah -4M:914 M
H

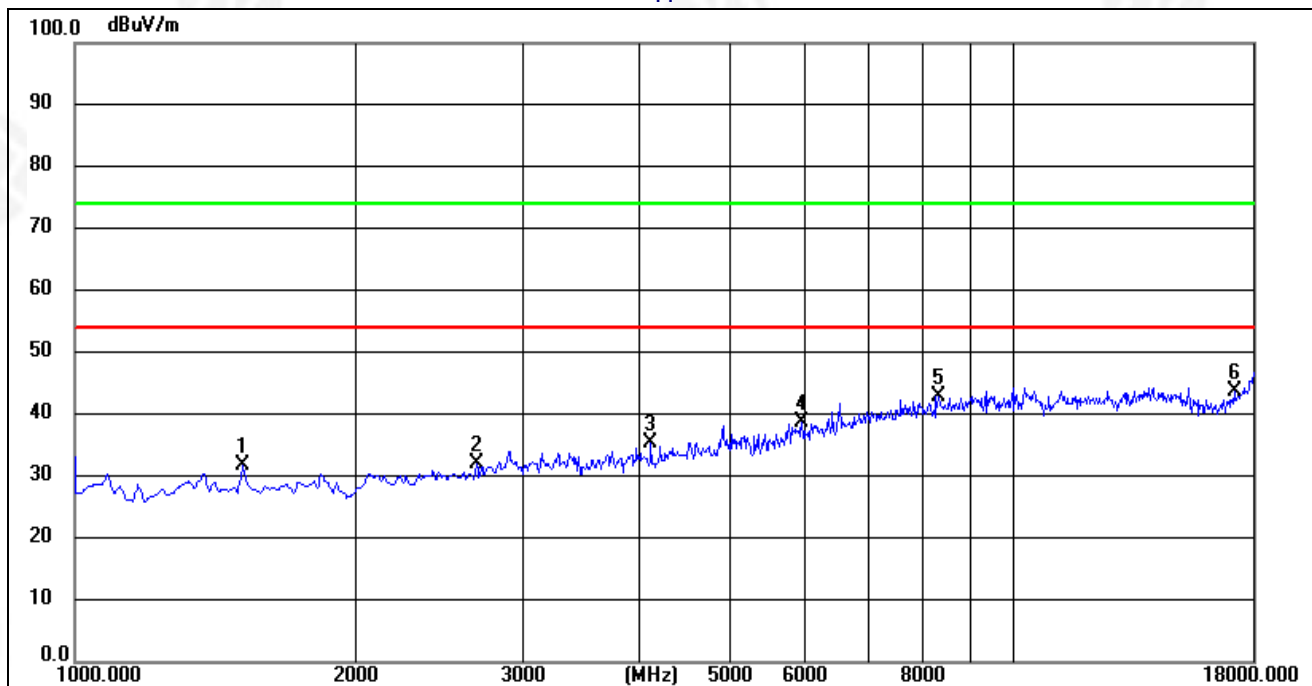


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1561.000	56.54	-26.68	29.86	74.00	-44.14	peak
2	2054.000	59.51	-25.52	33.99	74.00	-40.01	peak
3	3193.000	54.47	-21.44	33.03	74.00	-40.97	peak
4	10367.000	49.92	-6.48	43.44	74.00	-30.56	peak
5	13546.000	50.66	-5.50	45.16	74.00	-28.84	peak
6 *	18000.000	47.37	-0.82	46.55	74.00	-27.45	peak

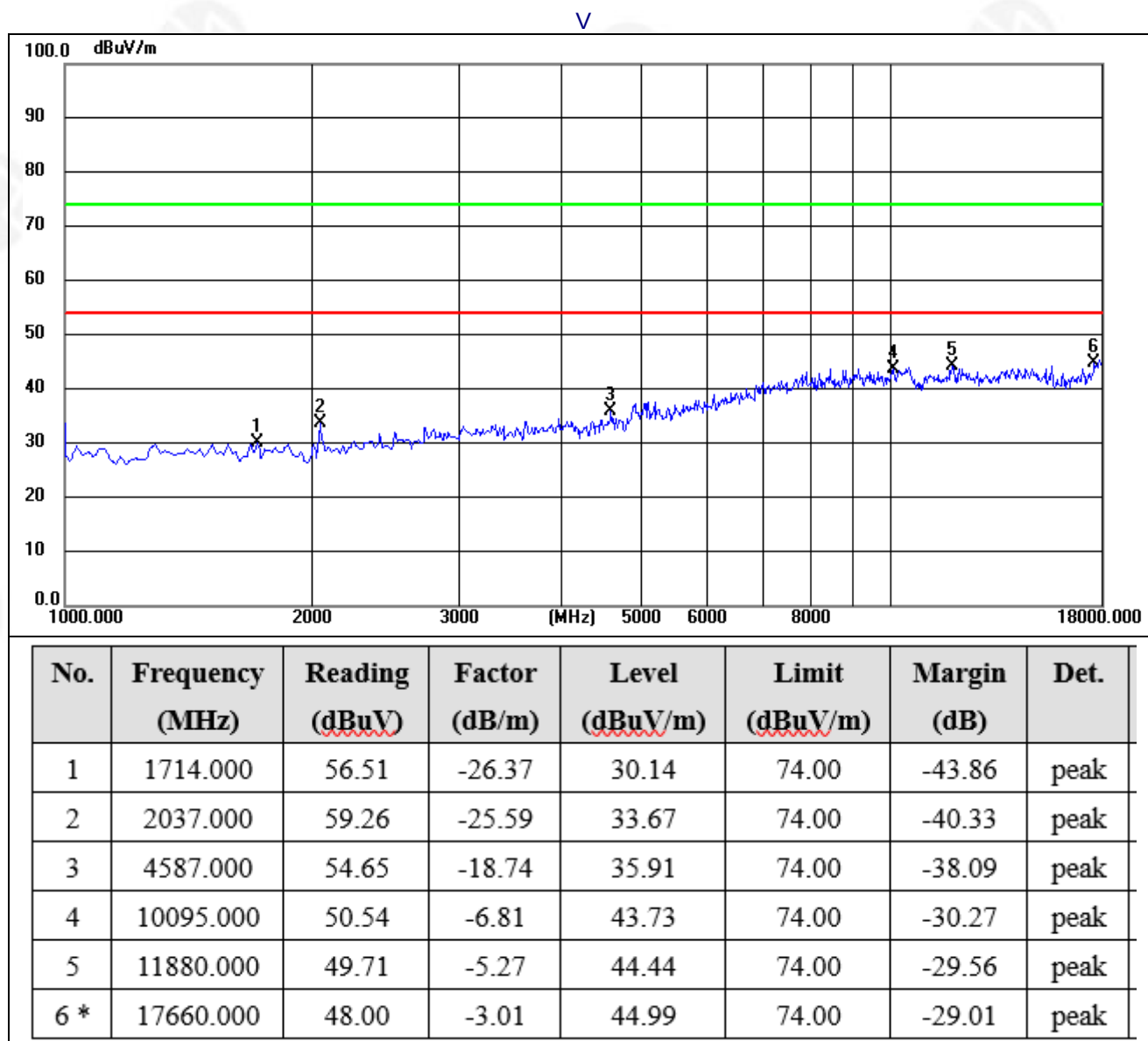




802.11ah -4M:926M
H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	1510.000	58.48	-26.80	31.68	74.00	-42.32	peak
2	2683.000	54.93	-22.79	32.14	74.00	-41.86	peak
3	4111.000	55.32	-19.94	35.38	74.00	-38.62	peak
4	5964.000	54.94	-16.18	38.76	74.00	-35.24	peak
5	8327.000	52.32	-9.48	42.84	74.00	-31.16	peak
6 *	17201.000	48.27	-4.58	43.69	74.00	-30.31	peak



Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5. RADIATED BAND EMISSION MEASUREMENT

5.1 TEST REQUIREMENT:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020+Cor. 1-2023				
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (820MHz to 1000MHz) data was showed.				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	MX5Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

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

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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 and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the Highest channel

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

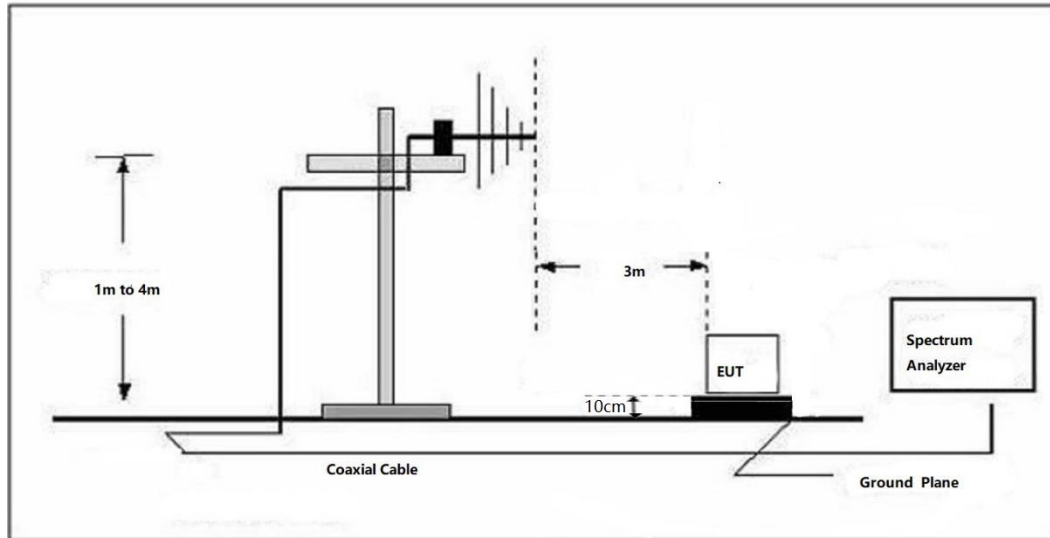
5.3 DEVIATION FROM TEST STANDARD

No deviation



5.4 TEST SETUP

Radiated Emission Test-Up



5.5 EUT OPERATING CONDITIONS

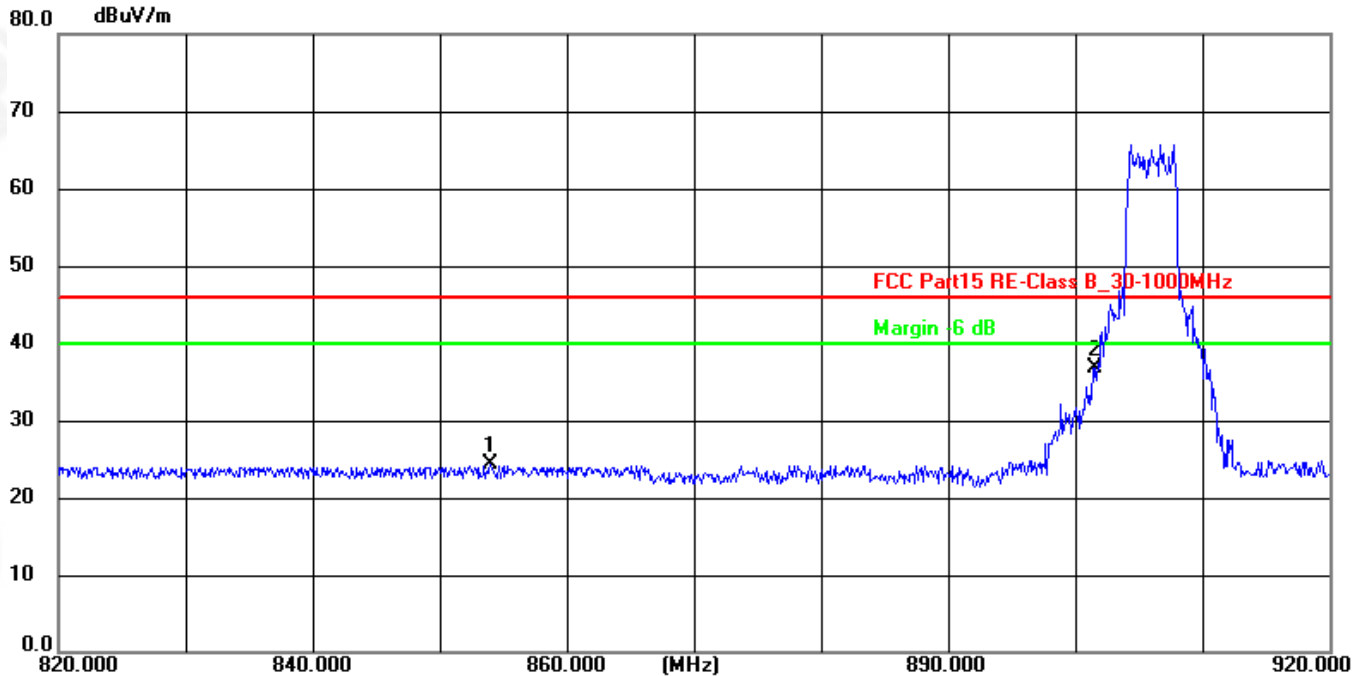
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULT

All modes have been tested, 802.11 ah-4M the worst result as bellow:

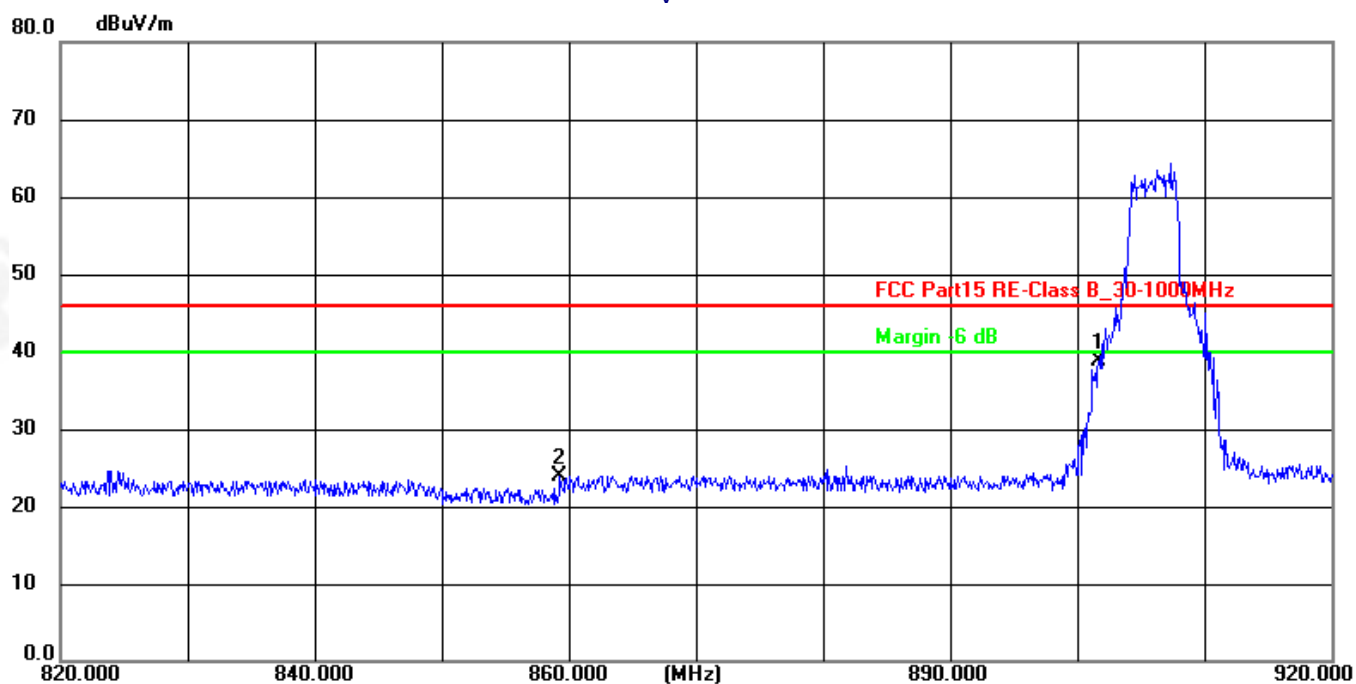
802.11 ah-4M 906
H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	854.000	34.38	-10.13	24.25	46.00	-21.75	peak
2 *	901.500	46.65	-9.96	36.69	46.00	-9.31	peak



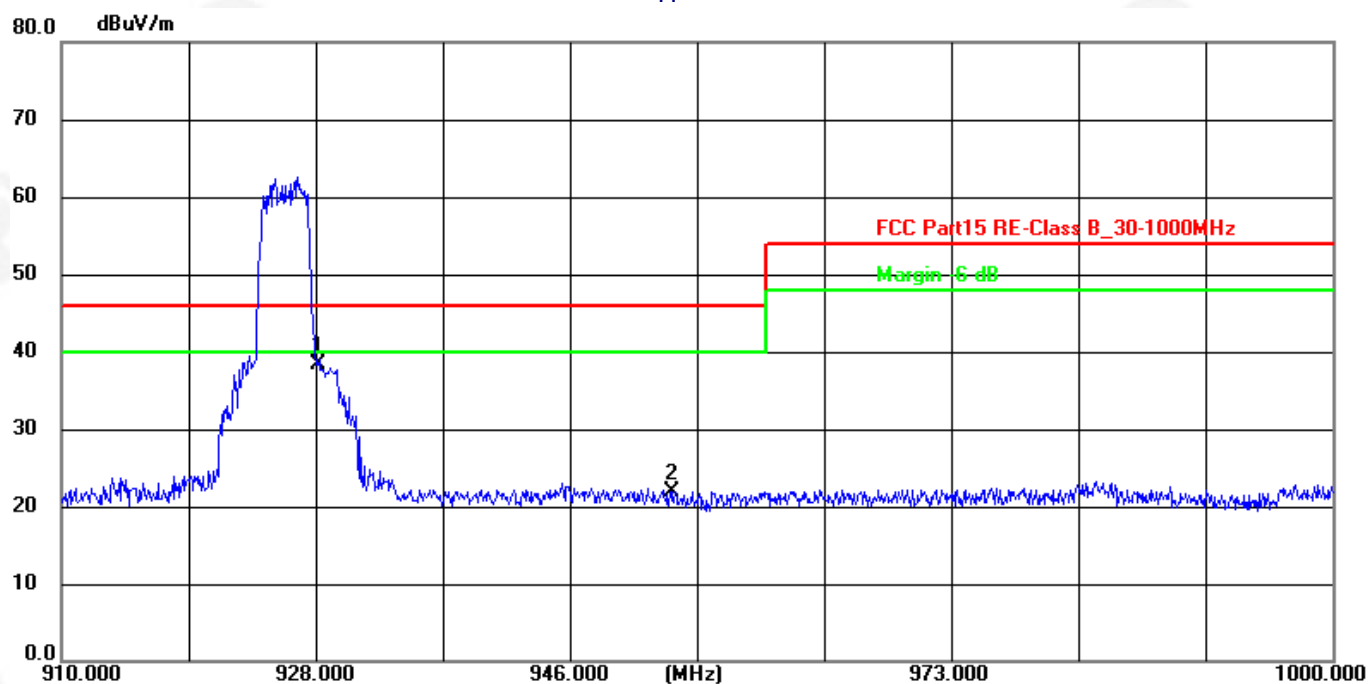
V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	901.700	48.62	-9.95	38.67	46.00	-7.33	peak
2	859.300	34.06	-10.12	23.94	46.00	-22.06	peak



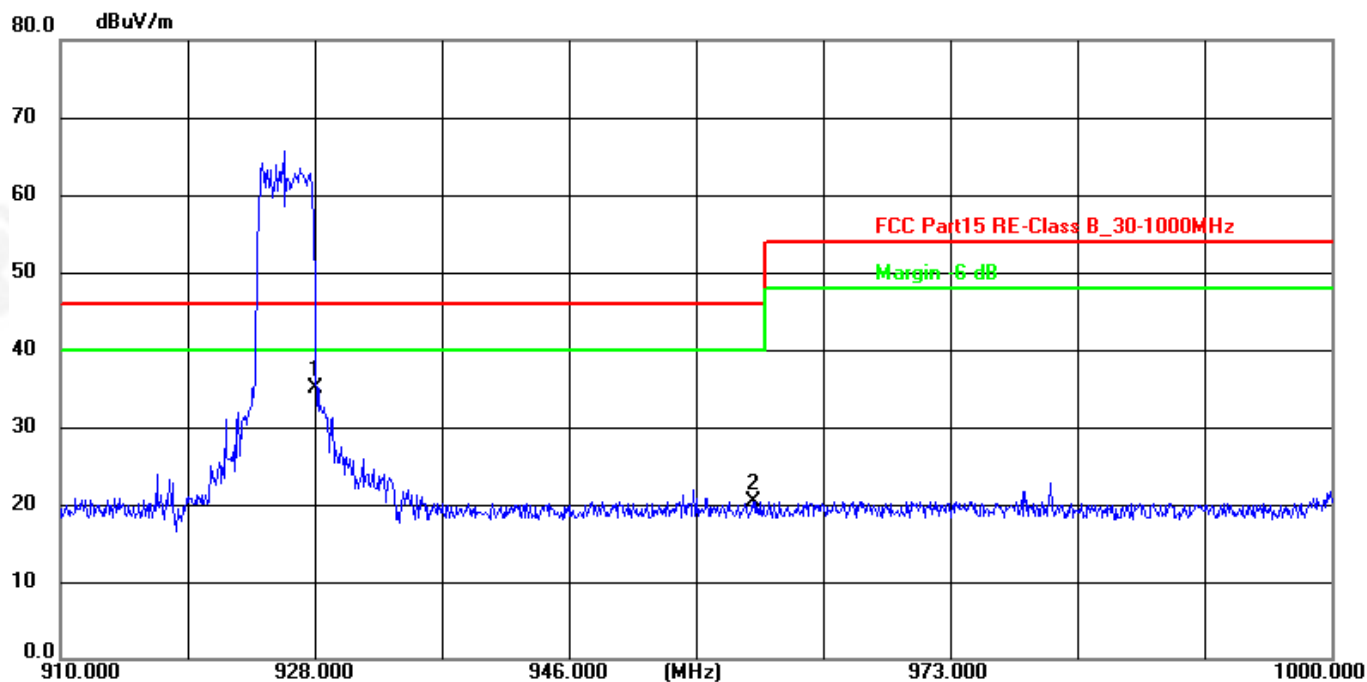
802.11 ah-4M 926
H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	928.180	47.76	-9.39	38.37	46.00	-7.63	peak
2	953.200	30.81	-8.88	21.93	46.00	-24.07	peak



V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1 *	928.000	44.30	-9.39	34.91	46.00	-11.09	peak
2	959.050	29.10	-8.80	20.30	46.00	-25.70	peak

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit



6. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	902-928	PASS

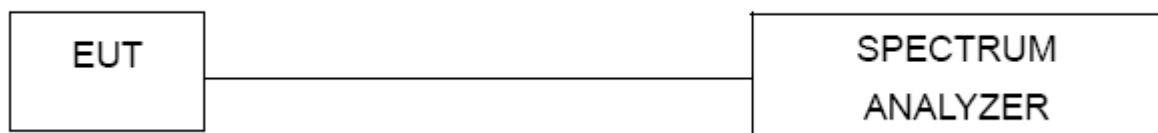
6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

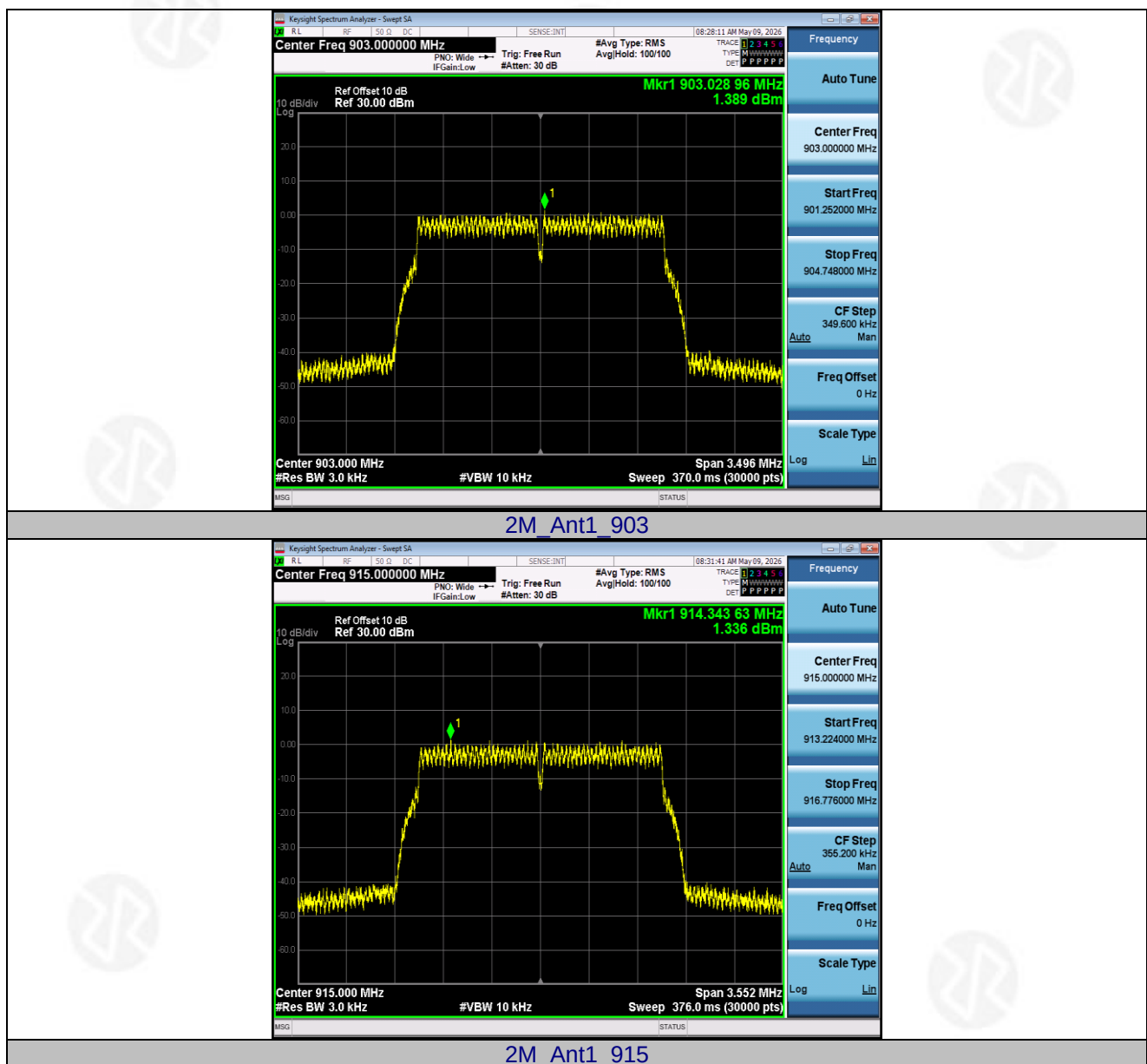
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

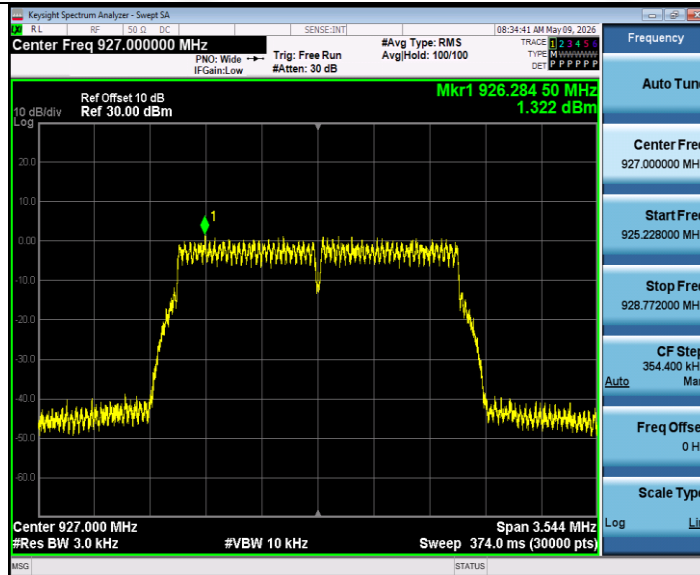


6.6 TEST RESULT

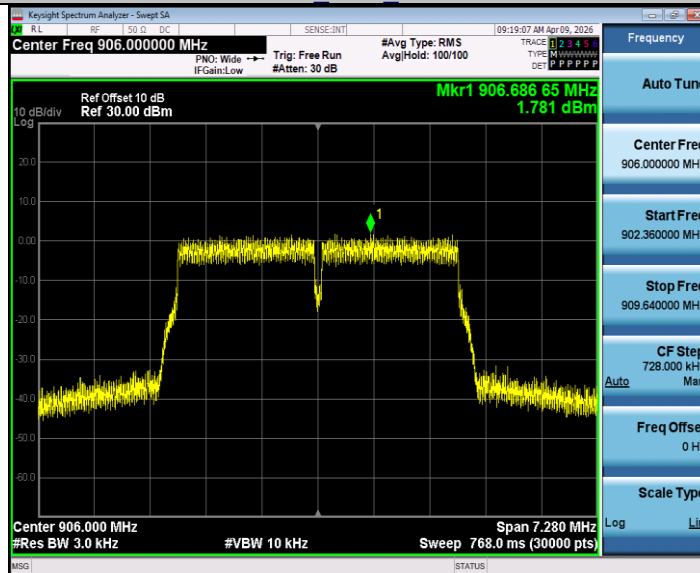
Temperature :	26°C	Relative Humidity :	54%
Test Mode :	OFDM	Test Voltage :	AC 120V/60Hz

Test Mode	Antenna	Freq (MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
2M	Ant1	903	1.39	≤8.00	PASS
		915	1.34	≤8.00	PASS
		927	1.32	≤8.00	PASS
4M	Ant1	906	1.78	≤8.00	PASS
		914	2.69	≤8.00	PASS
		926	2.35	≤8.00	PASS





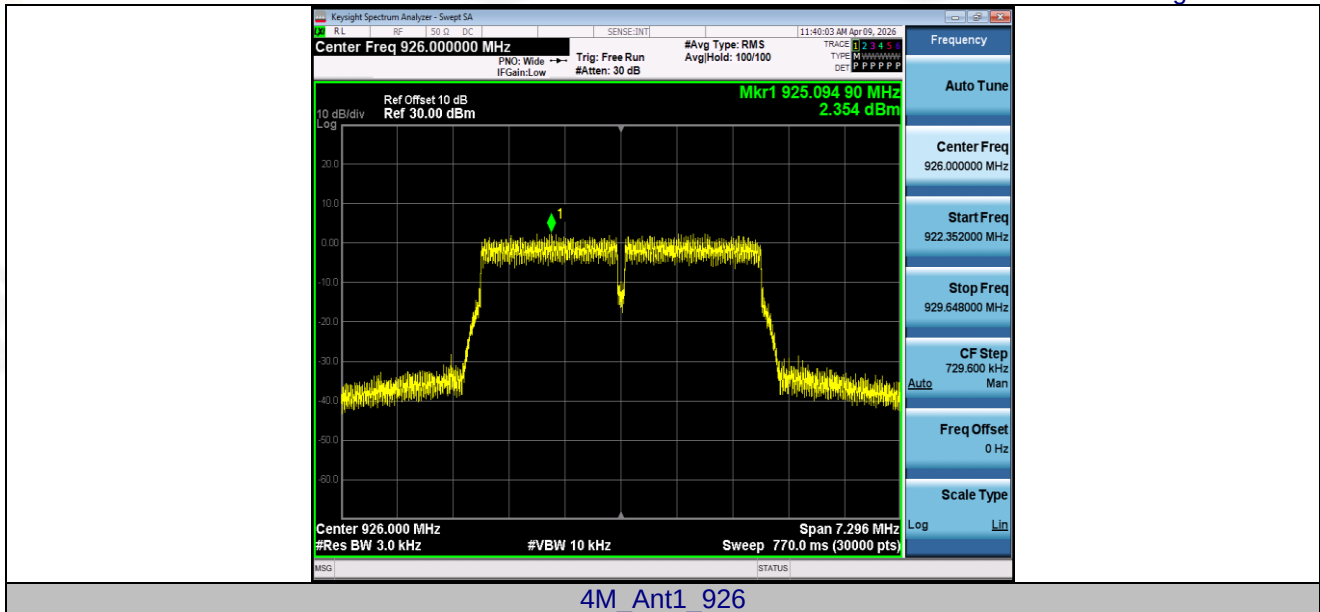
2M_Ant1_927



4M_Ant1_906



4M_Ant1_914





7. CHANNEL BANDWIDTH & 99% OCCUPY BANWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	902-928	PASS

7.2 TEST PROCEDURE

According “99% emission bandwidth” and “6 dB bandwidth”:

1.The “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable .

2.The “6dB bandwidth” is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated 6dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

3.The following conditions shall be observed for measuring the occupied bandwidth and 6dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / 6dB bandwidth if the device is not transmitting continuously.
- The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / 6dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).



The following procedure shall be used for measuring 6dB bandwidth:

1. Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

The following procedure shall be used for measuring (99 %) power bandwidth:

- a) Set center frequency to the nominal EUT channel center frequency.
- b) Set span = 1.5 times to 5.0 times the OBW.
- c) Set RBW = 1 % to 5 % of the OBW
- d) Set VBW $\geq 3 \times$ RBW
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

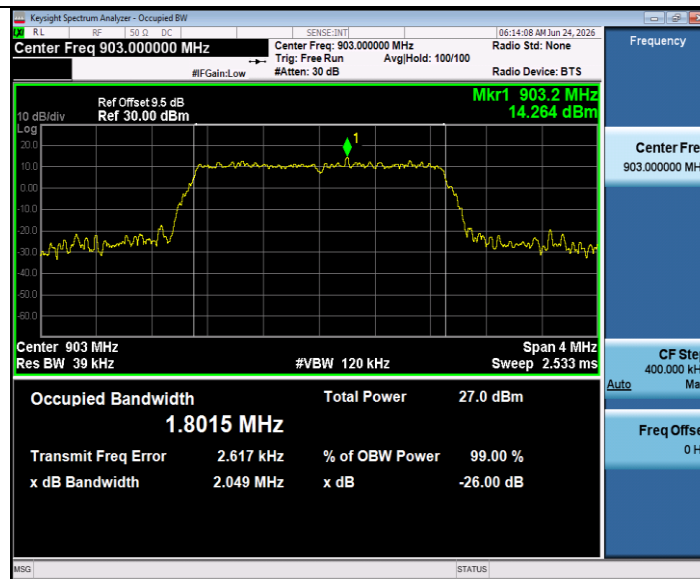


7.6 TEST RESULT

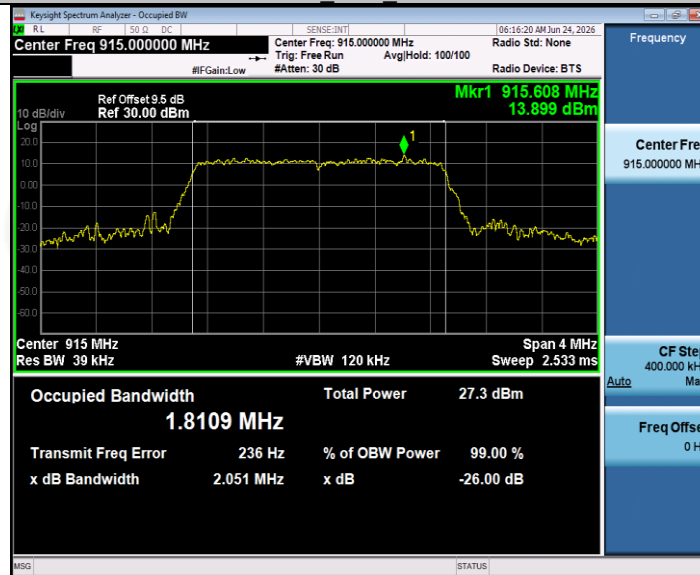
Temperature :	26°C	Relative Humidity :	54%
Test Mode :	OFDM	Test Voltage :	AC 120V/60Hz

99%

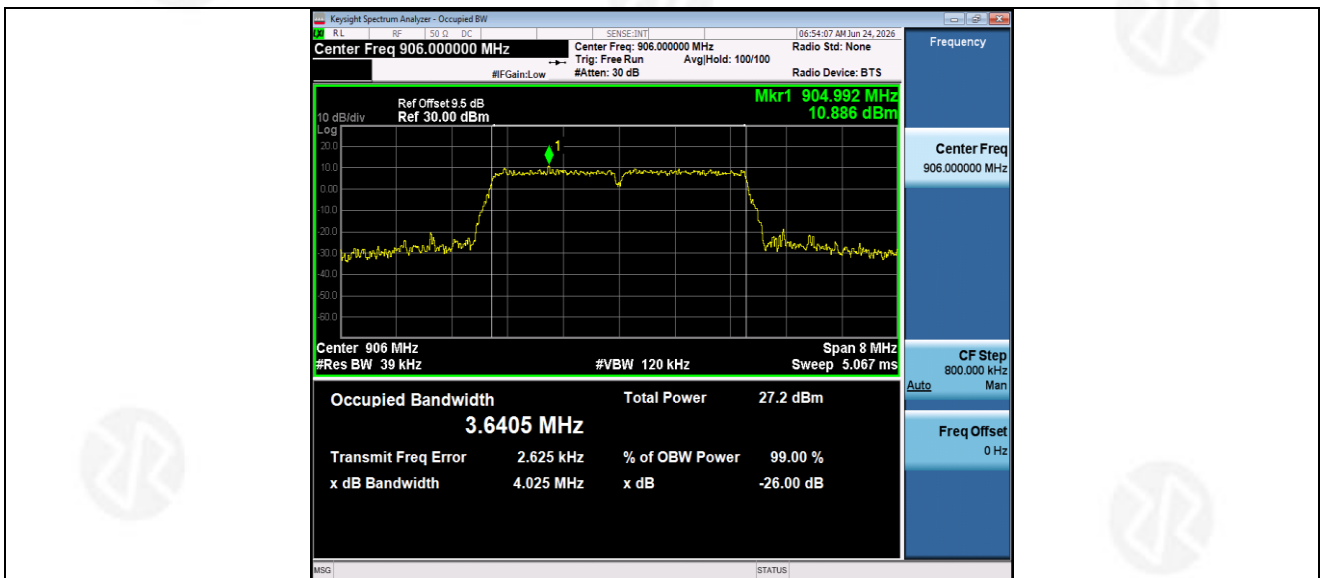
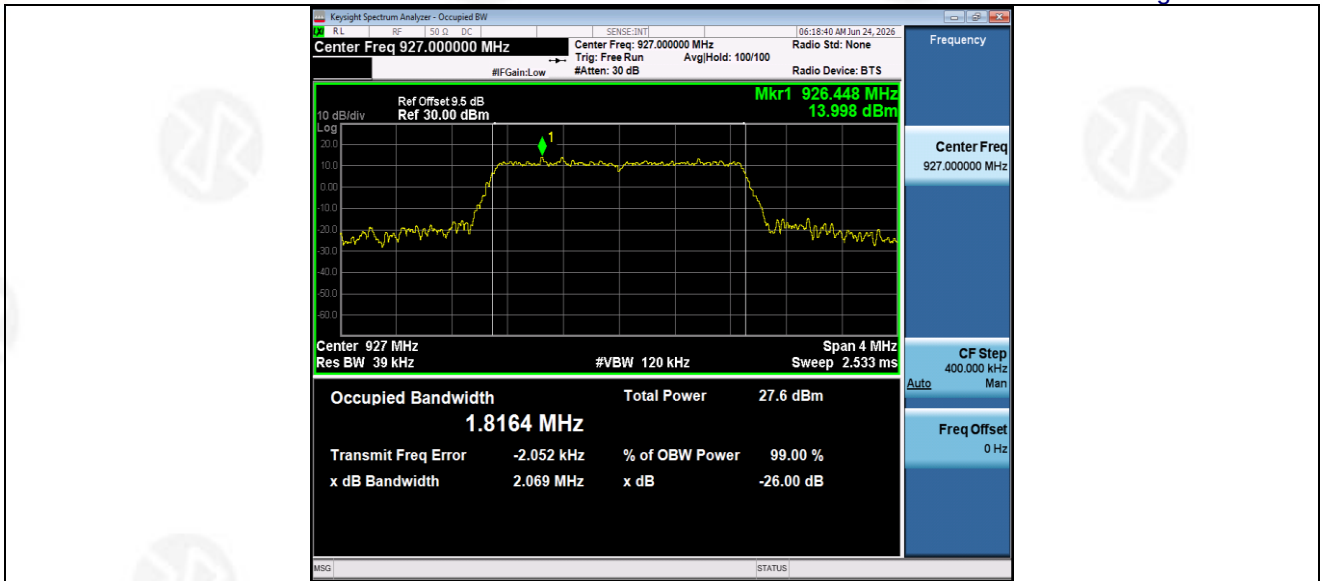
Test Mode	Antenna	Freq (MHz)	OCB BW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
2M	Ant1	903	1.8015	902.1019	903.9034	---	---
		915	1.8109	914.0948	915.9057	---	---
		927	1.8164	926.0898	927.9062	---	---
4M	Ant1	906	3.6405	904.1824	907.8229	---	---
		914	3.6470	912.1746	915.8216	---	---
		926	3.6376	924.1814	927.8190	---	---



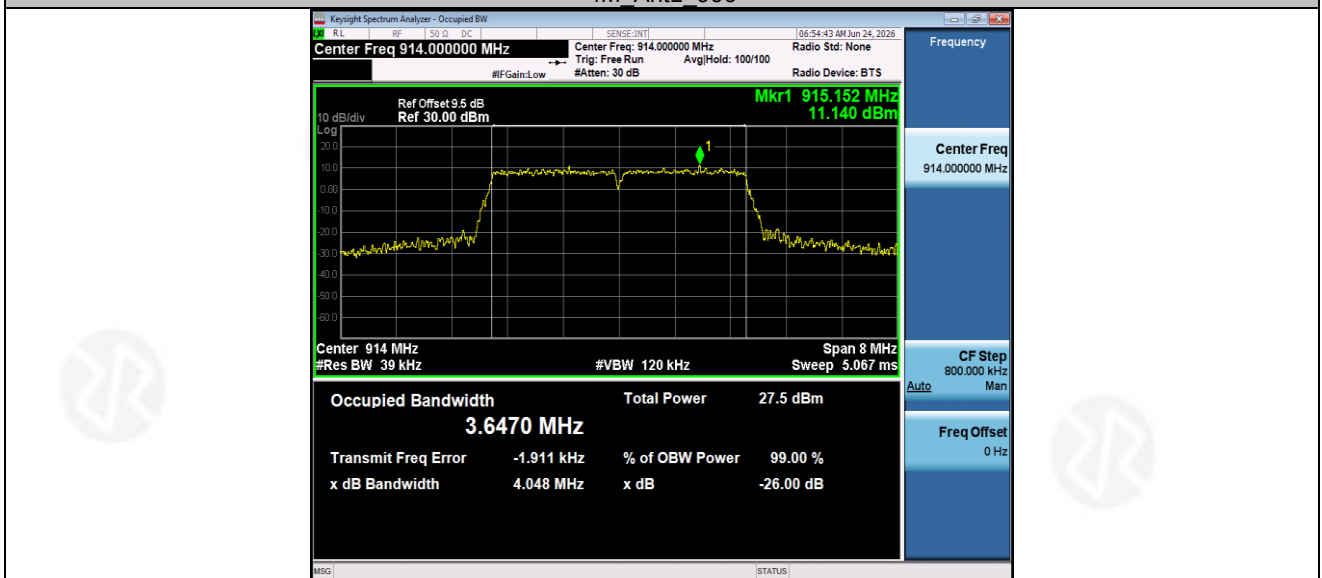
2M_Ant1_903



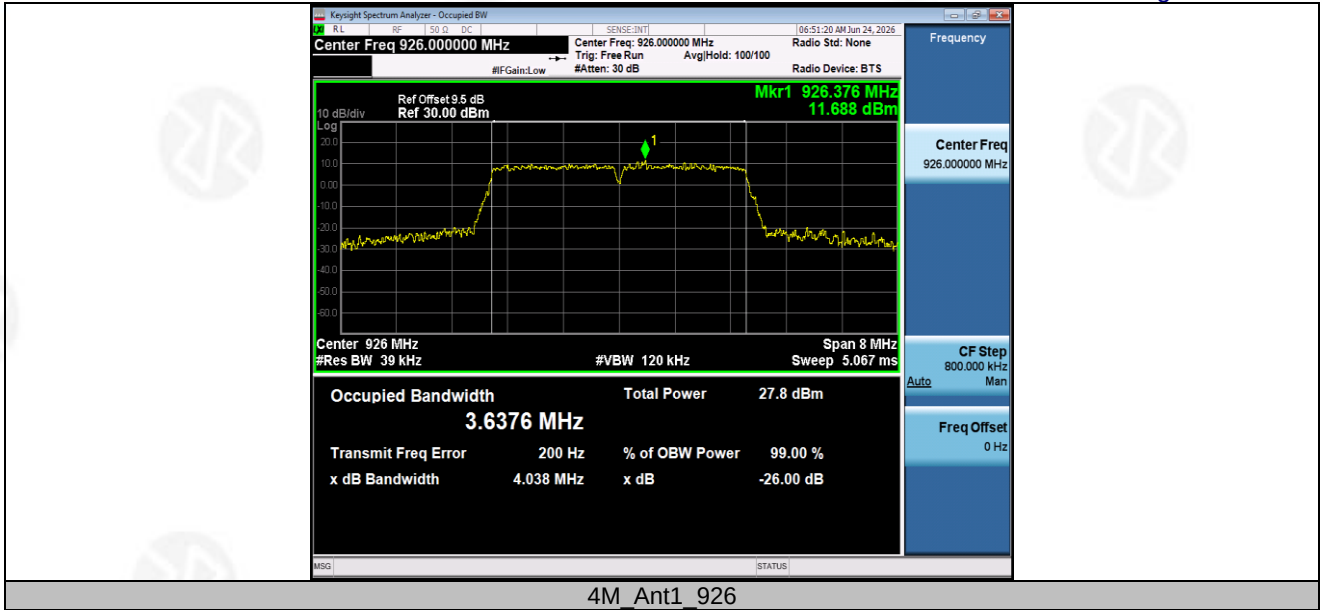
2M_Ant1_915



4M_Ant1_906

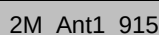
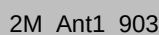


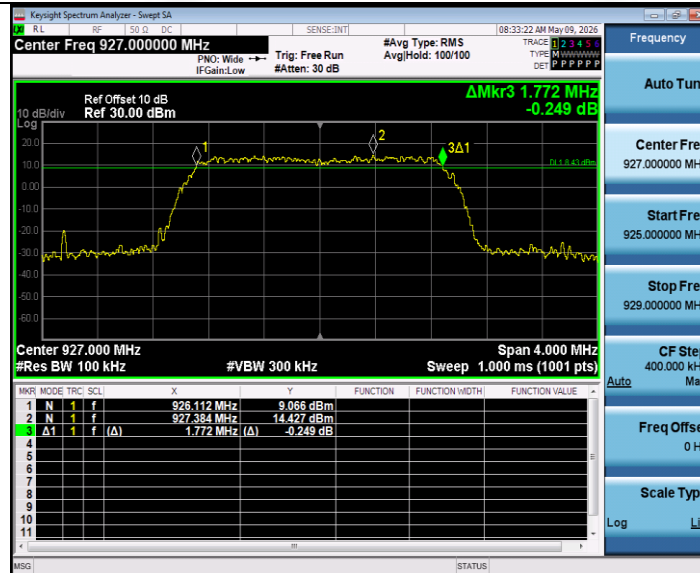
4M_Ant1_914



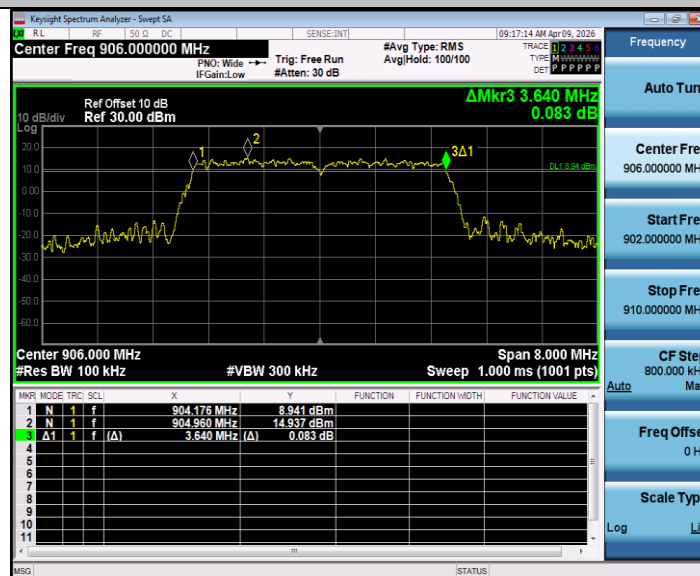


TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2M	Ant1	903	1.748	902.116	903.864	0.5	PASS
		915	1.776	914.124	915.900	0.5	PASS
		927	1.772	926.112	927.884	0.5	PASS
4M	Ant1	906	3.640	904.176	907.816	0.5	PASS
		914	3.616	912.200	915.816	0.5	PASS
		926	3.648	924.184	927.832	0.5	PASS

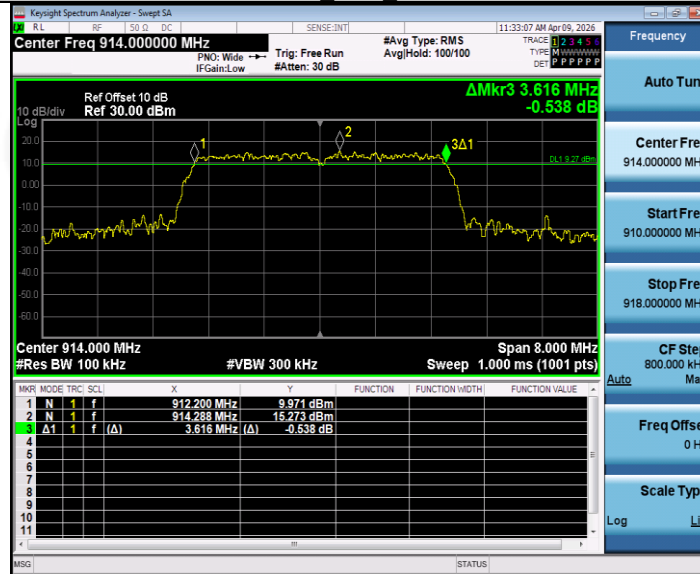




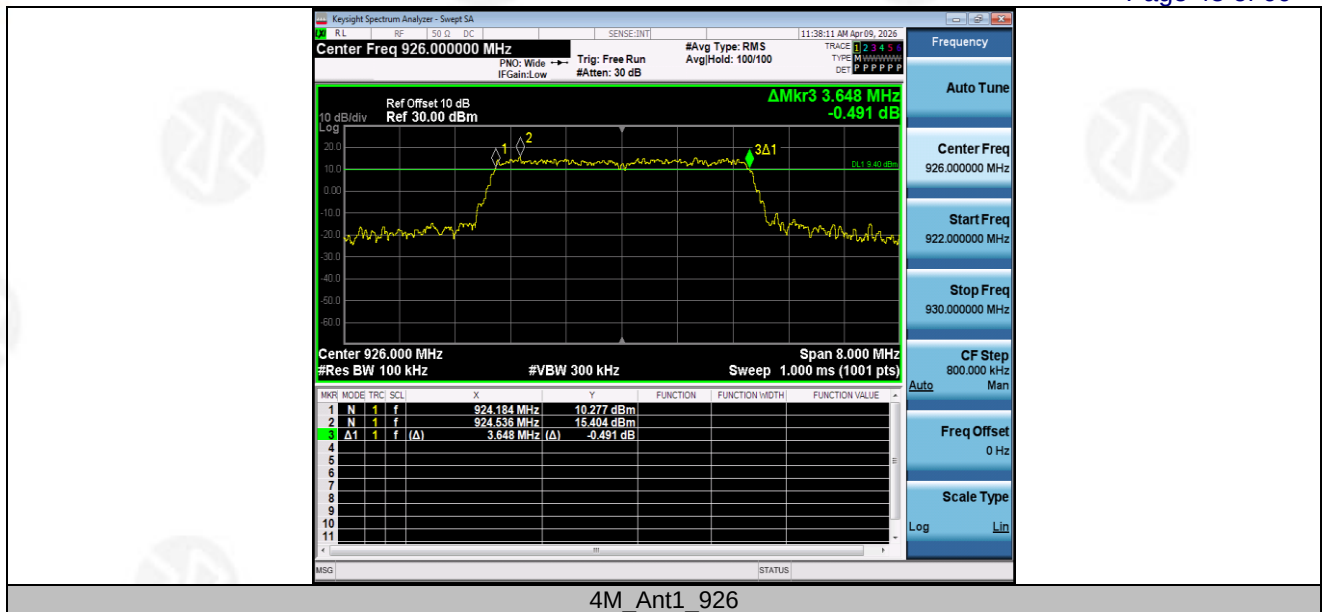
2M_Ant1_927



4M_Ant1_906



4M_Ant1_914





8. PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	902-928	PASS

8.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



8.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Test Mode :	OFDM	Test Voltage :	AC 120V/60Hz

Test Mode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2M	Ant1	903	25.16	≤30	PASS
		915	25.03	≤30	PASS
		927	24.88	≤30	PASS
4M	Ant1	906	26.88	≤30	PASS
		914	26.19	≤30	PASS
		926	26.95	≤30	PASS



9. Conducted band edge and Spurious Emission

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

9.1 APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

9.2 TEST PROCEDURE

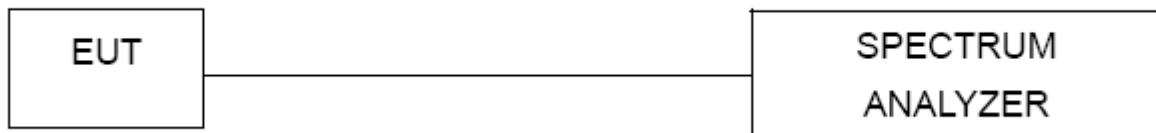
Using the following spectrum analyzer setting:

- A) Set the RBW = 100KHz.
- B) Set the VBW = 300KHz.
- C) Sweep time = auto couple.
- D) Detector function = peak.
- E) Trace mode = max hold.
- F) Allow trace to fully stabilize.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.6 TEST RESULTS



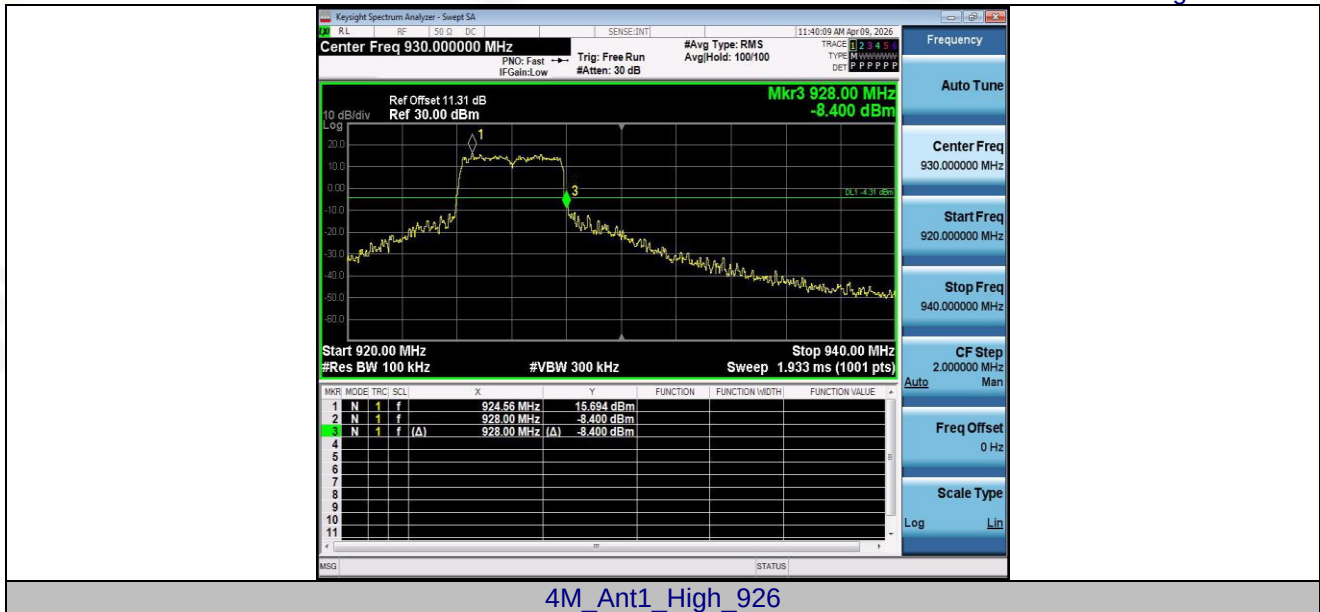
2M_Ant1_Low_903



2M_Ant1_High_927

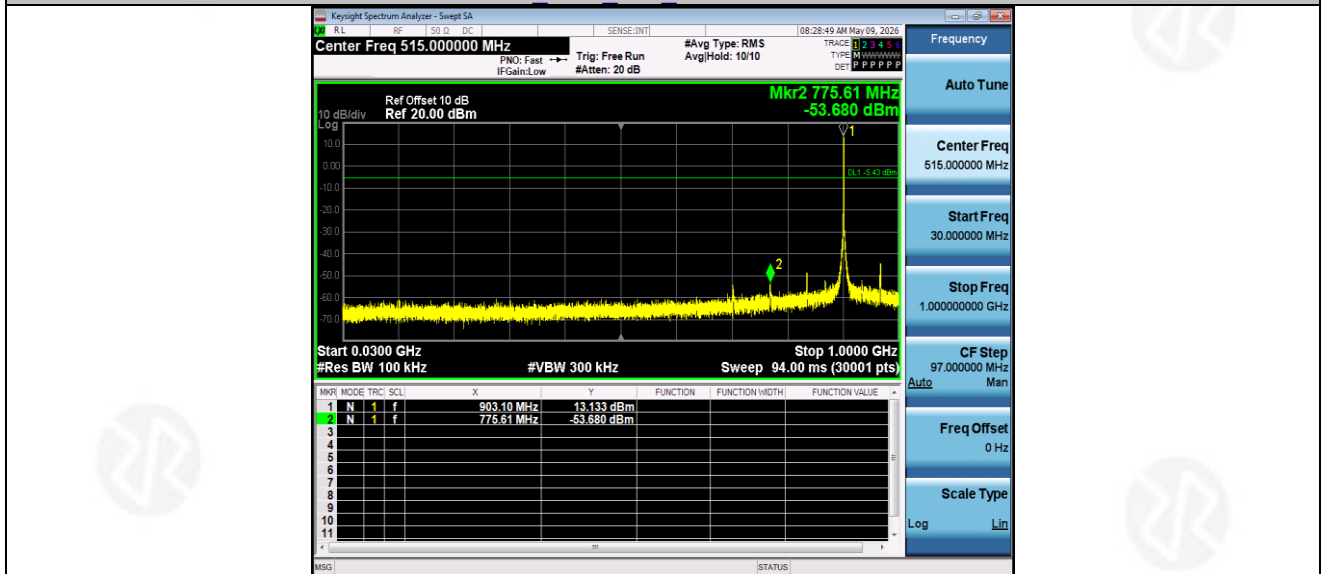


4M_Ant1_Low_906





2M_Ant1_903_0~Reference



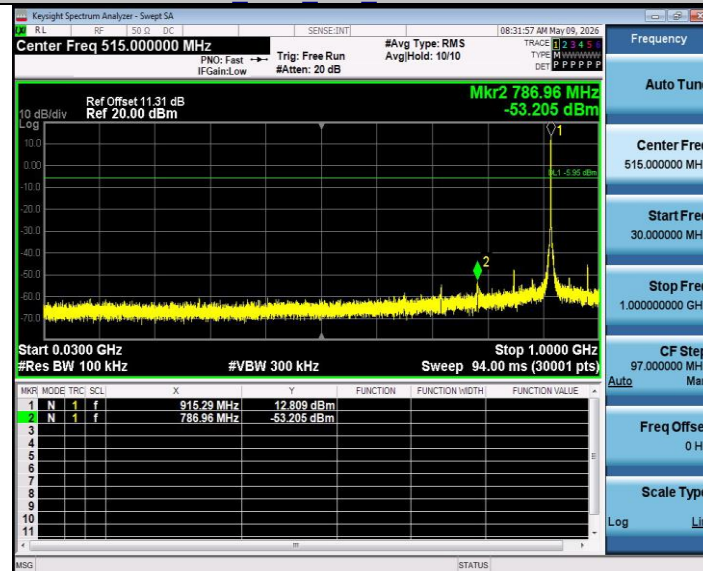
2M_Ant1_903_30~1000



2M_Ant1_903_1000~26500



2M_Ant1_915_0~Reference



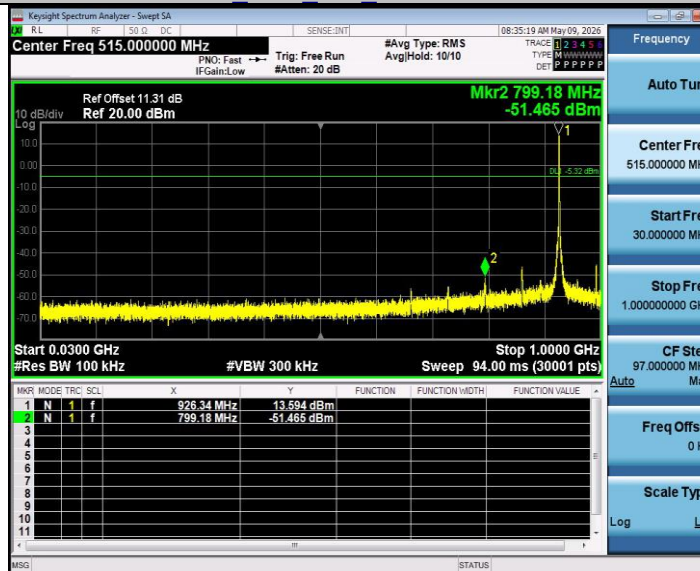
2M_Ant1_915_30~1000



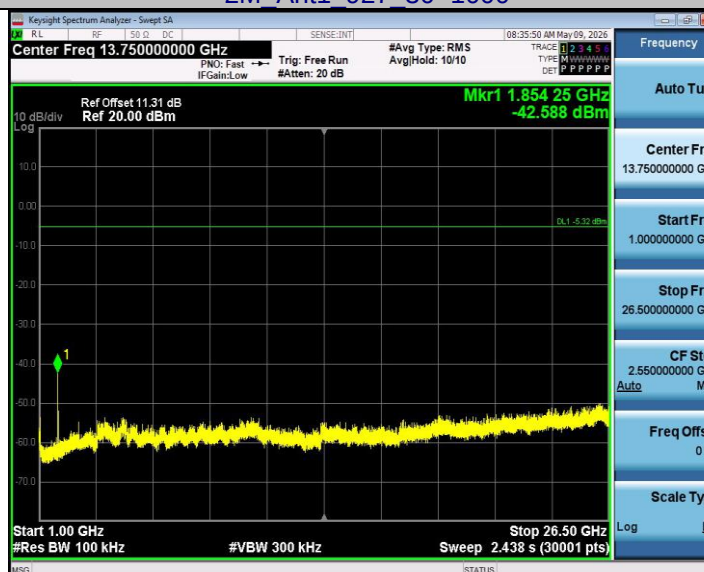
2M_Ant1_915_1000~26500



2M_Ant1_927_0~Reference



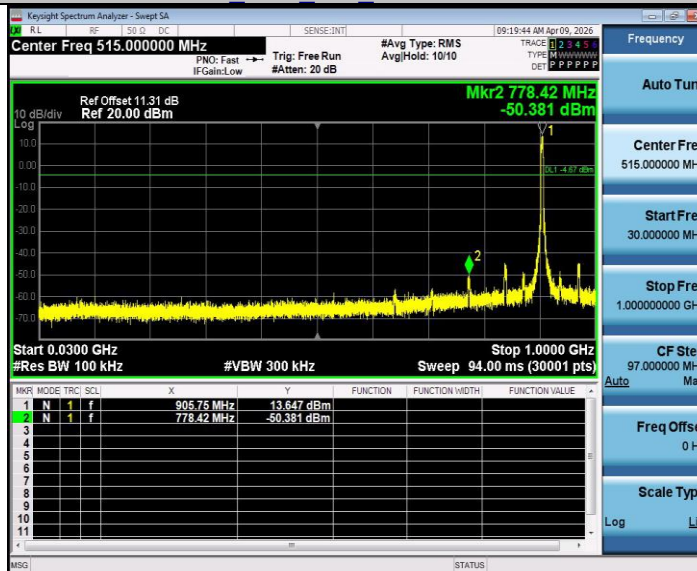
2M_Ant1_927_30~1000



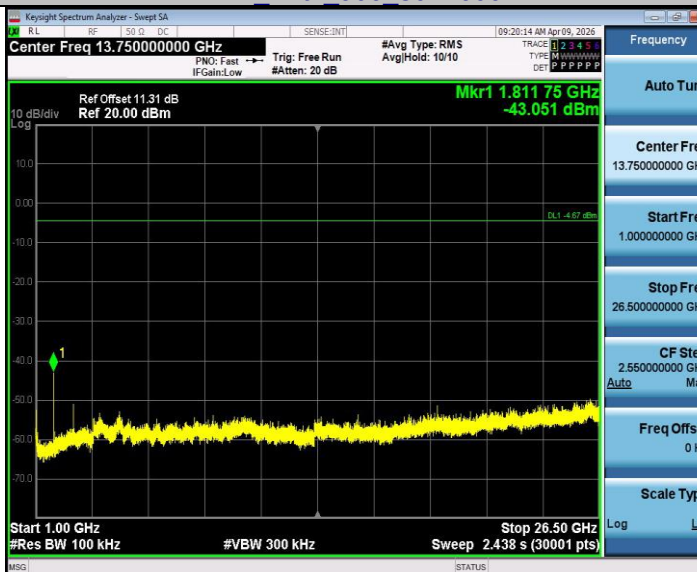
2M_Ant1_927_1000~26500



4M_Ant1_906_0~Reference



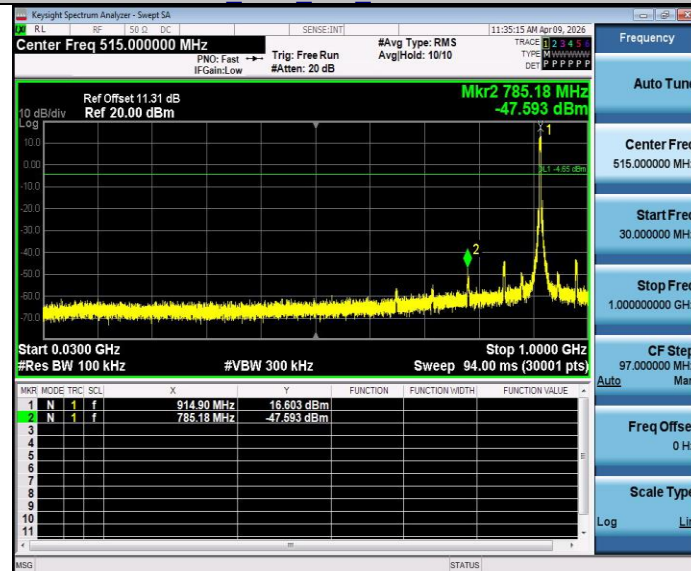
4M_Ant1_906_30~1000



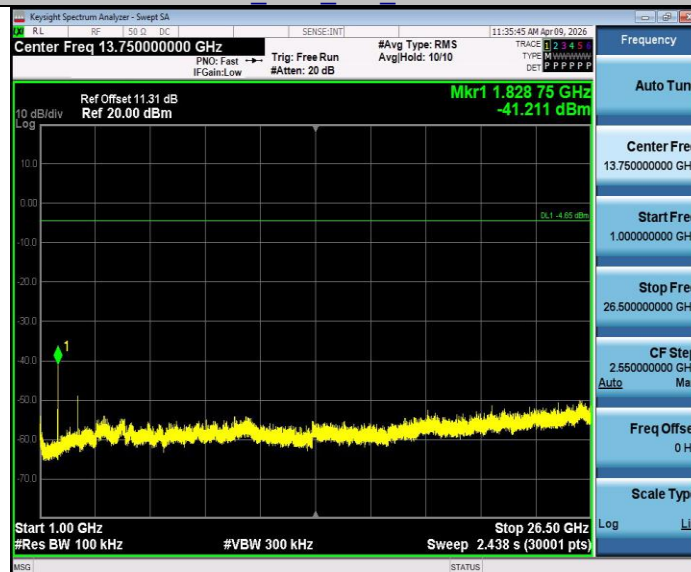
4M_Ant1_906_1000~26500



4M_Ant1_914_0~Reference



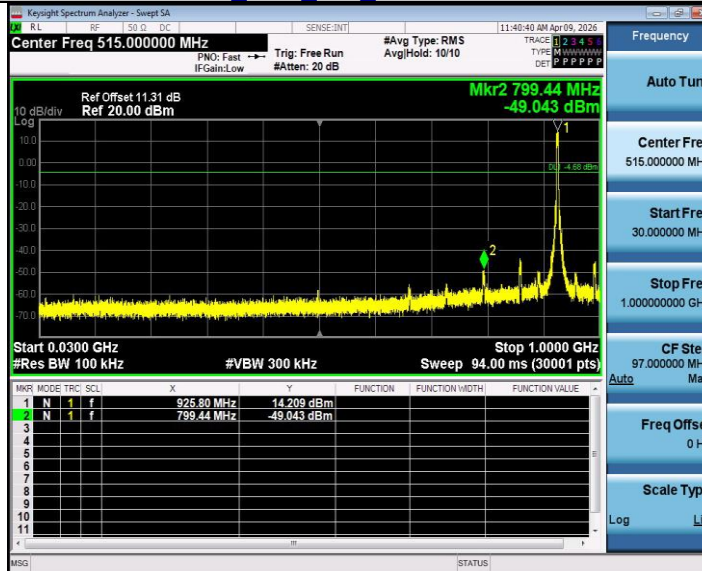
4M_Ant1_914_30~1000



4M_Ant1_914_1000~26500



4M_Ant1_926_0~Reference



4M_Ant1_926_30~1000



4M_Ant1_926_1000~26500

Note: The conducted spurious emissions test has compensated for the maximum line loss measurement, and the recorded data represents the worst-case scenario.



10. Duty Cycle

Test Method:	ANSI C63.10-2020+Cor. 1-2023
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10.1 APPLIED PROCEDURES / LIMIT

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - 1) Set the center frequency of the instrument to the center frequency of the transmission.
 - 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
 - 3) Set $VBW \geq RBW$. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

10.2 DEVIATION FROM STANDARD

No deviation.

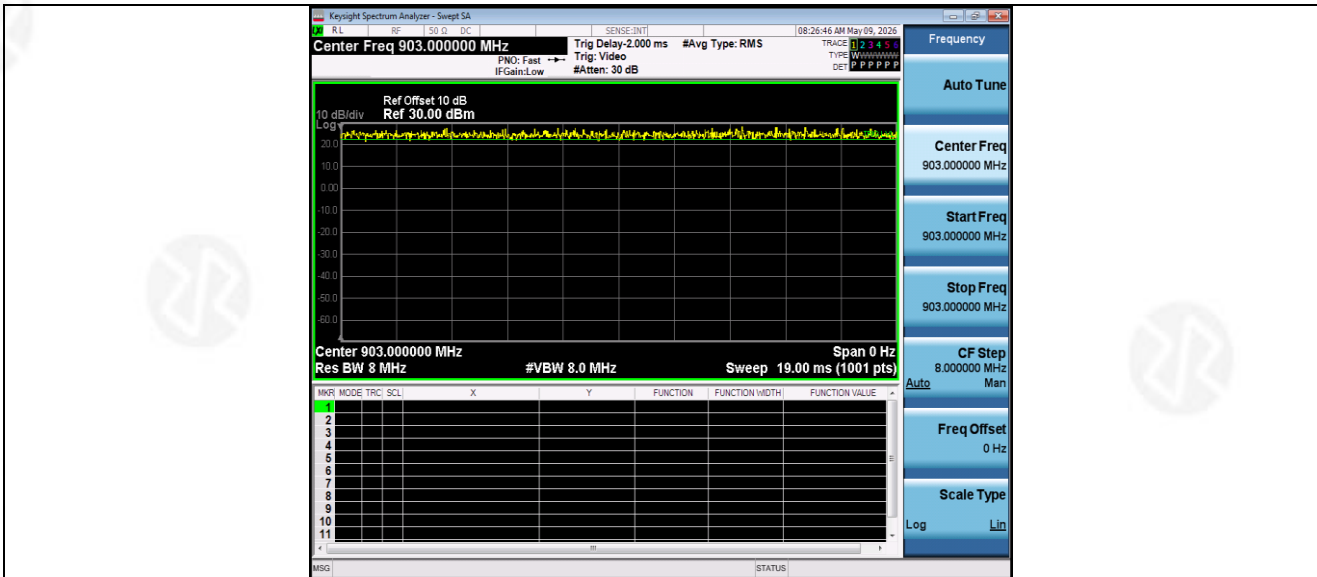
10.3 TEST SETUP



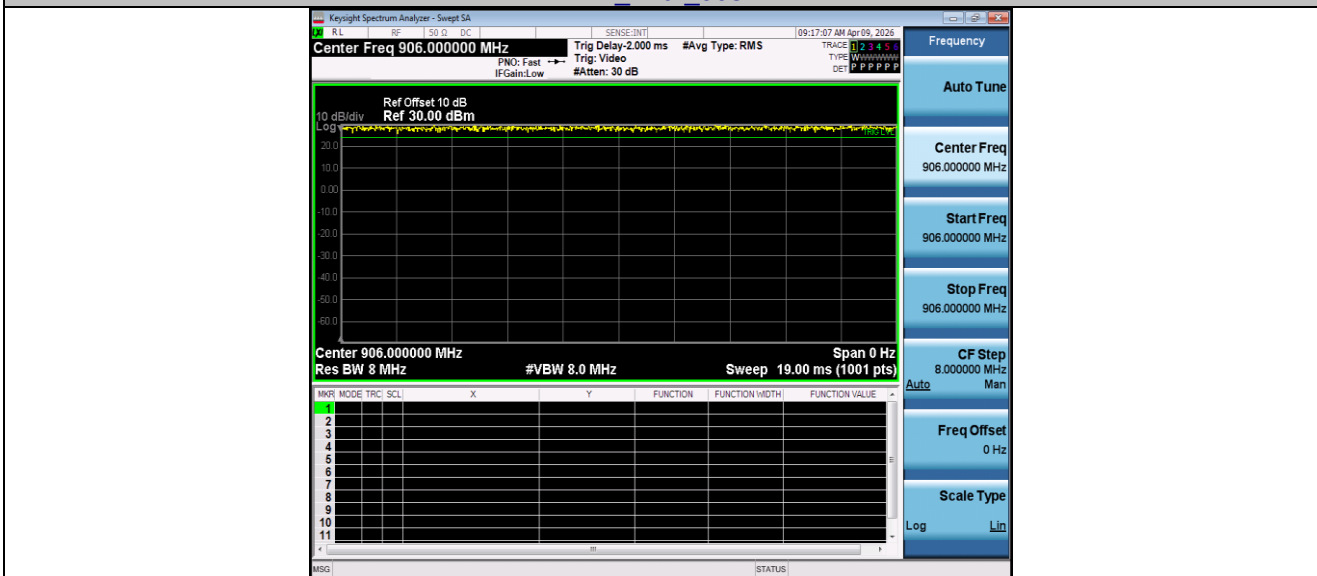


10.4 TEST RESULTS

Test Mode	Antenna	Freq (MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
2M	Ant1	903	19.00	19.00	1.0000	100.00	0.00	---	---
4M	Ant1	906	19.00	19.00	1.0000	100.00	0.00	---	---



2M_Ant1_903



4M_Ant1_906

Note: All channel and ant have been tested, and the report only reflects the worst case data.
Duty Cycle= Ton /Total*100%
Duty Cycle Correction Factor = 10log (1/Duty Cycle)



11. ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. A transmitter can only be sold or operated with antennas with which it was approved.	
EUT Antenna:	
The antenna is Dipole Antenna, the best case gain of the antenna is 2.27 dBi, reference to the appendix II for details	



12. TEST SETUP PHOTO

Reference to the appendix I for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

***** END OF REPORT *****