

FCC Test Report

Report No. : 1812C50236012501

Applicant : Easy RFID Technologies Ltd

Address : 581, No. 93 Qianjin Second Road, 81st
District, Hexi Community, Xixiang Street,
Bao'an District, Shenzhen, China

Product Name : Integrated Portable Tag tester Instrument

Report Date : 2025-07-02

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : Easy RFID Technologies Ltd
Manufacturer : Easy RFID Technologies Ltd
Product Name : Integrated Portable Tag tester Instrument
Model No. : EZ-TagSwift, EZ-TagSwift mini
Trade Mark : N/A
Rating(s) : Input: 5V=2A

Test Standard(s) : 47 CFR Part 15.247

Test Method(s) : ANSI C63.10: 2020

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the 47 CFR Part 15.247 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt 2025-05-19

Date of Test 2025-05-19 to 2025-07-02

Prepared By



(Cecilia Chen)

Approved & Authorized Signer



(Hugo Chen)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2025-07-02

1. General Information

1.1. Client Information

ApplicantC	:	Easy RFID Technologies Ltd
Address	:	581, No. 93 Qianjin Second Road, 81st District, Hexi Community, Xixiang Street, Bao'an District, Shenzhen, China
Manufacturer	:	Easy RFID Technologies Ltd
Address	:	581, No. 93 Qianjin Second Road, 81st District, Hexi Community, Xixiang Street, Bao'an District, Shenzhen, China
Factory	:	Shenzhen REALID Intelligent Technology Co., Ltd
Address	:	A506, Building A, Mingyou Centre, Yuye Community, Xixiang Street, Bao'an District, Shenzhen, China

1.2. Description of Device (EUT)

Product Name	:	Integrated Portable Tag tester Instrument
Model No.	:	EZ-TagSwift, EZ-TagSwift mini (Note: All samples are the same except the model number, so we prepare "EZ-TagSwift" for test only.)
Trade Mark	:	N/A
Test Power Supply	:	DC 5V from adapter input AC 120V/60Hz
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	Manufacturer: BULL Model: GNV-AUD101 Input: 110-240V~, 50/60Hz, 0.5A Output: 5V=2A

RF Specification

Operation Mode	:	☐ DSSS ☒ FHSS
Operation Frequency	:	902.25~926.75MHz
Number of Channel	:	50 Channels
Modulation Type	:	ASK
Antenna Type	:	External Antenna
Antenna Gain(Peak)	:	2dBi

Remark: 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
/	/	/	/

1.4. Description of Test Modes

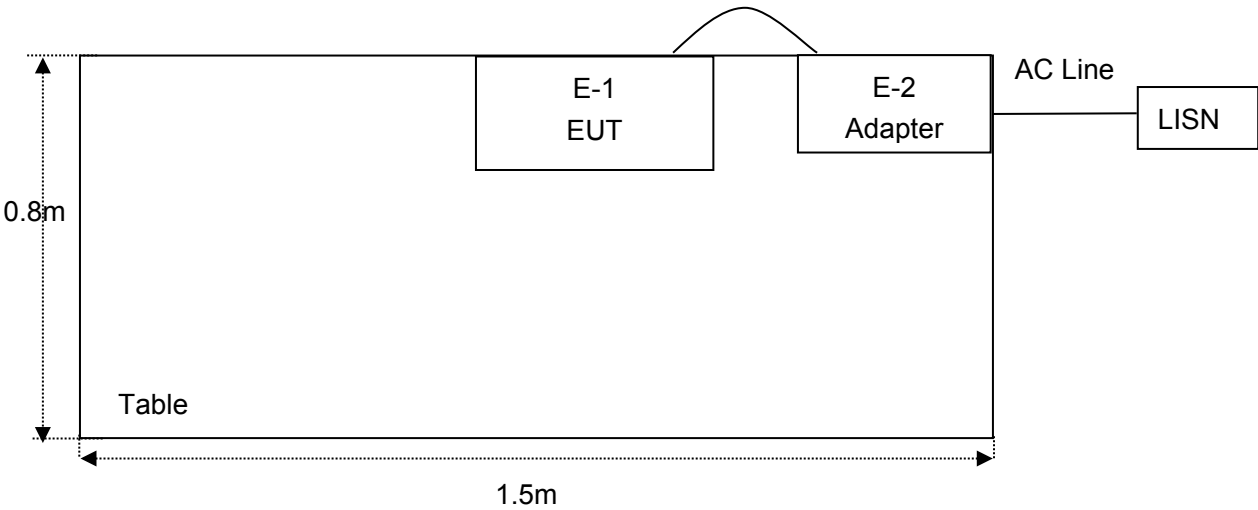
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	902.25	14	908.75	27	915.25	40	921.75
2	902.75	15	909.25	28	915.75	41	922.25
3	903.25	16	909.75	29	916.25	42	922.75
4	903.75	17	910.25	30	916.75	43	923.25
5	904.25	18	910.75	31	917.25	44	923.75
6	904.75	19	911.25	32	917.75	45	924.25
7	905.25	20	911.75	33	918.25	46	924.75
8	905.75	21	912.25	34	918.75	47	925.25
9	906.25	22	912.75	35	919.25	48	925.75
10	906.75	23	913.25	36	919.75	49	926.25
11	907.25	24	913.75	37	920.25	50	926.75
12	907.75	25	914.25	38	920.75		
13	908.25	26	914.75	39	921.25		

Note:

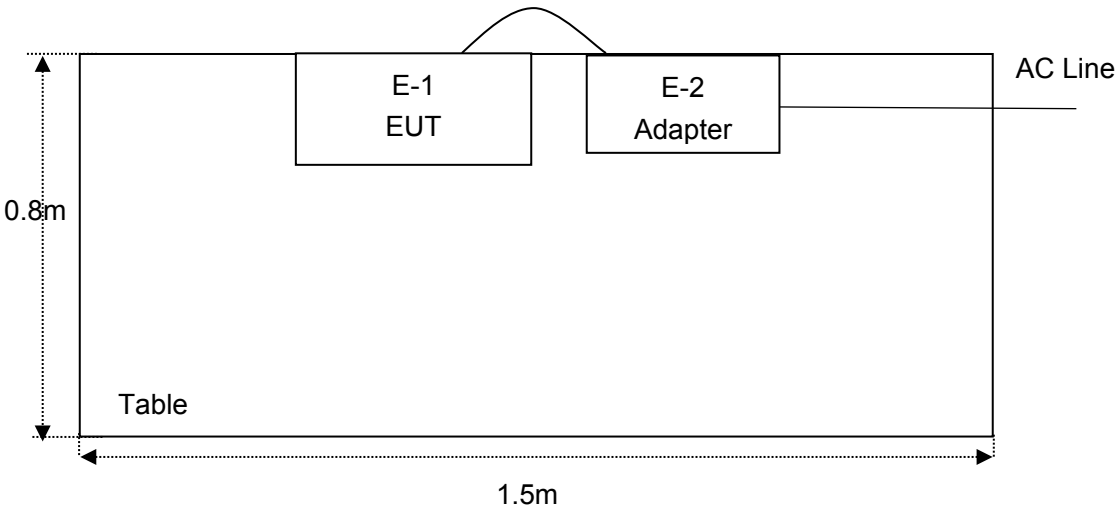
1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
2. EUT was tested with Channel 1, 26 and 50.

1.5. Description Of Test Setup

CE



RE



1.6. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	100055	2024-09-09	1 Year
2.	Three Phase V-type Artificial Power Network	CYBERTEK	EM5040DT	E215040DT00 1	2025-01-13	1 Year
3.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	2025-01-13	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR26	101481	2025-01-14	1 Year
5.	MXA Spectrum Analysis	Agilent	N9020A	MY51170037	2024-09-09	1 Year
6.	EMI Preamplifier	SKET Electronic	LNPA-0118G- 45	SKET-PA-002	2025-01-13	1 Year
7.	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	02555	2022-10-16	3 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	345	2022-10-23	3 Year
9.	Loop Antenna(9K-30M)	Schwarzbeck	FMZB1519B	00053	2024-09-12	1 Year
10.	Horn Antenna	A-INFO	LB-180400-KF	J211060628	2024-01-22	3 Year
11.	Pre-amplifier	SONOMA	310N	186860	2025-01-14	1 Year
12.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
13.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	2024-09-09	1 Year
14.	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	2025-01-14	1 Year
15.	Signal Generator	Agilent	E4421B	MY41000743	2025-02-21	1 Year
16.	DC Power Supply	IVYTECH	IV3605	1804D360510	2024-09-09	1 Year
17.	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-KHWS80B	N/A	2024-10-14	1 Year
18.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102150	2025-04-25	1 Year

1.7. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	3.2dB
Dwell Time	2%
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Radiated spurious emissions (Below 30MHz)	3.26dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 3.70dB; Vertical: 4.42dB
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.9.Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2. Summary of Test Results

Standard Section	Test Item	Result
15.203/15.247(c)	Antenna Requirement	PASS
15.207	Conducted Emission	PASS
15.205/15.209	Spurious Emission	PASS
15.247(b)(2)	Conducted Peak Output Power	PASS
15.247(a)(1)(i)	20dB Occupied Bandwidth	PASS
15.247(a)(1)	Carrier Frequencies Separation	PASS
15.247(a)(1)(i)	Hopping Channel Number	PASS
15.247(a)(1)(i), 15.247(f)	Dwell Time	PASS
15.247(d)	Band Edge	PASS
Remark: "N/A" is an abbreviation for Not Applicable.		

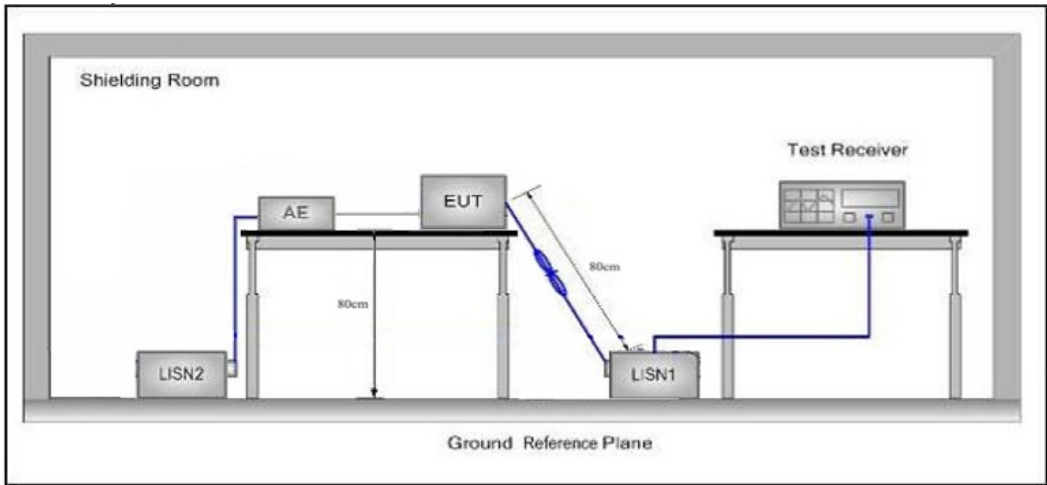
3. Conducted Emission Test

3.1. Test Standard and Limit

Test Standard	FCC Part15 Section 15.207		
Test Limit	Frequency	Maximum RF Line Voltage (dBuV)	
		Quasi-peak Level	Average Level
	150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
	500kHz~5MHz	56	46
	5MHz~30MHz	60	50

Remark: (1) *Decreasing linearly with logarithm of the frequency.
(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10: 2020 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

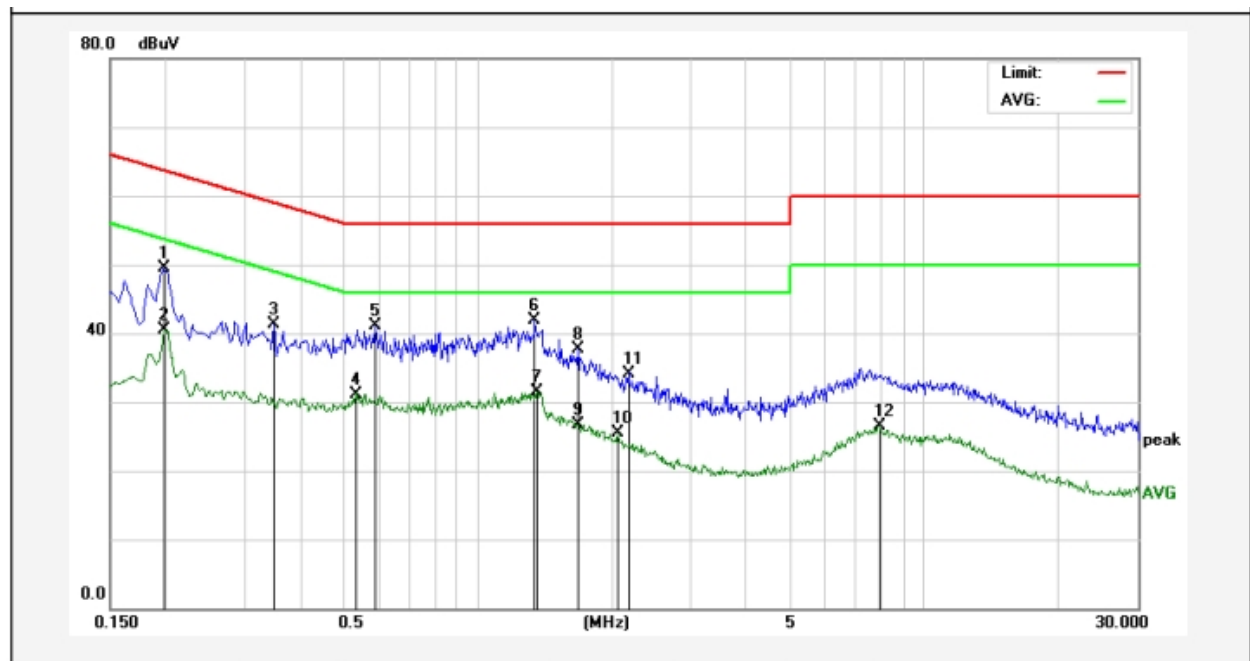
3.4. Test Data

During the test, pre-scan all modes, only the worst case is recorded in the report.

Please to see the following pages.

Conducted Emission Test Data

Test Site: 1# Shielded Room
Operating Condition: 926.75MHz
Test Specification: DC 5V from adapter input AC 120V/60Hz
Comment: Live Line
Temp.(°C)/Hum.(%RH): 24.6°C/59%RH

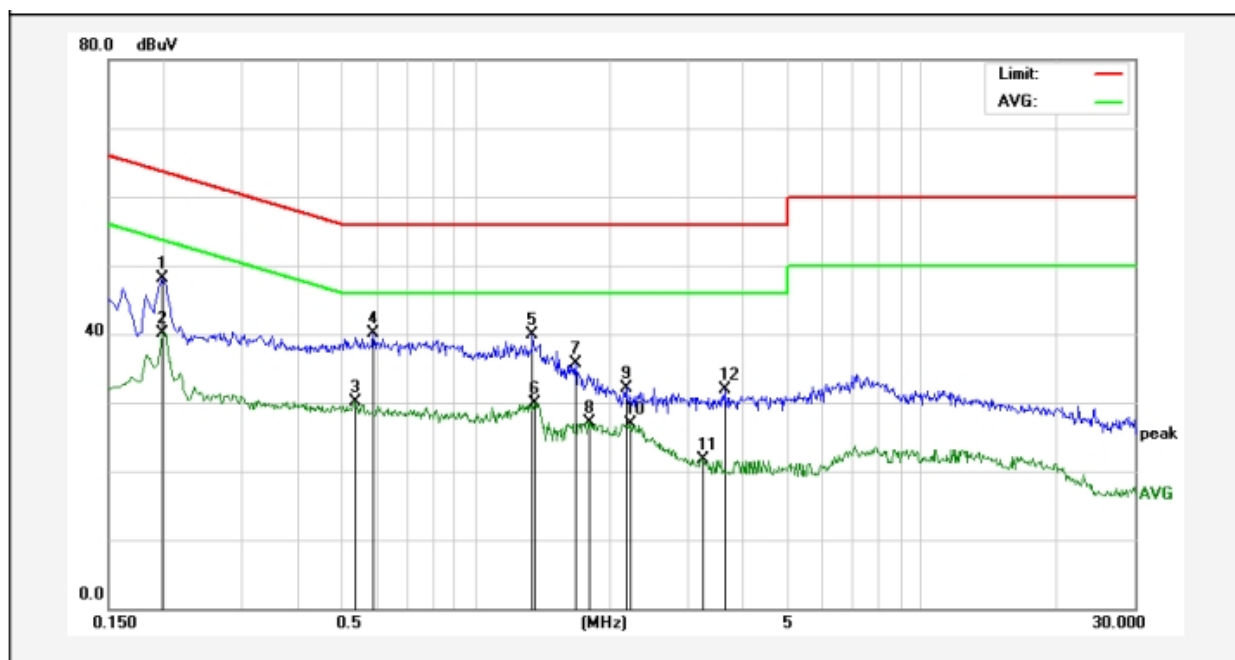


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1980	31.77	17.82	49.59	63.69	-14.10	QP	
2	0.1980	22.71	17.82	40.53	53.69	-13.16	AVG	
3	0.3500	23.39	17.82	41.21	58.96	-17.75	QP	
4	0.5340	13.34	17.86	31.20	46.00	-14.80	AVG	
5	0.5899	23.22	17.86	41.08	56.00	-14.92	QP	
6	1.3420	24.14	17.86	42.00	56.00	-14.00	QP	
7	1.3580	13.61	17.86	31.47	46.00	-14.53	AVG	
8	1.6780	19.79	17.85	37.64	56.00	-18.36	QP	
9	1.6780	8.92	17.85	26.77	46.00	-19.23	AVG	
10	2.0579	7.69	17.85	25.54	46.00	-20.46	AVG	
11	2.1700	16.35	17.85	34.20	56.00	-21.80	QP	
12	7.8540	8.59	17.93	26.52	50.00	-23.48	AVG	

Note: Result = Reading + Factor Over Limit = Result - Limit

Conducted Emission Test Data

Test Site: 1# Shielded Room
 Operating Condition: 926.75MHz
 Test Specification: DC 5V from adapter input AC 120V/60Hz
 Comment: Neutral Line
 Temp.(°C)/Hum.(%RH): 22.1°C/52%RH



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1980	30.27	17.82	48.09	63.69	-15.60	QP	
2	0.1980	22.21	17.82	40.03	53.69	-13.66	AVG	
3	0.5350	12.19	17.86	30.05	46.00	-15.95	AVG	
4	0.5899	22.22	17.86	40.08	56.00	-15.92	QP	
5	1.3420	22.14	17.86	40.00	56.00	-16.00	QP	
6	1.3580	12.11	17.86	29.97	46.00	-16.03	AVG	
7	1.6780	17.79	17.85	35.64	56.00	-20.36	QP	
8	1.8020	9.21	17.86	27.07	46.00	-18.93	AVG	
9	2.1700	14.35	17.85	32.20	56.00	-23.80	QP	
10	2.2260	9.02	17.85	26.87	46.00	-19.13	AVG	
11	3.2380	3.93	17.85	21.78	46.00	-24.22	AVG	
12	3.6180	14.01	17.86	31.87	56.00	-24.13	QP	

Note: Result = Reading + Factor Over Limit = Result - Limit



4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.209 and 15.205				
Test Limit	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz~88MHz	100	40.0	Quasi-peak	3
	88MHz~216MHz	150	43.5	Quasi-peak	3
	216MHz~960MHz	200	46.0	Quasi-peak	3
	960MHz~1000MHz	500	54.0	Quasi-peak	3
	Above 1000MHz	500	54.0	Average	3
		-	74.0	Peak	3

Remark:
 (1)The lower limit shall apply at the transition frequency.
 (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

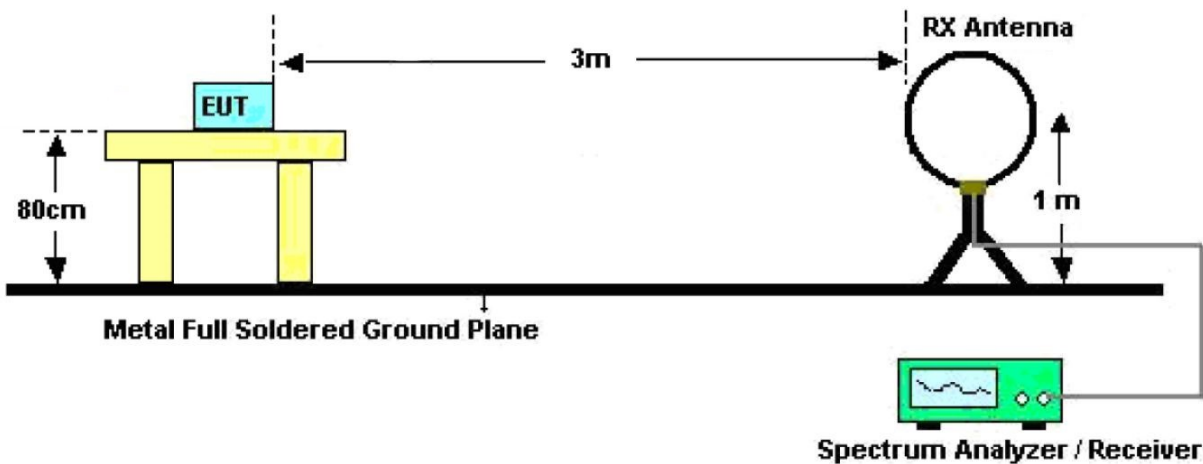


Figure 1. Below 30MHz

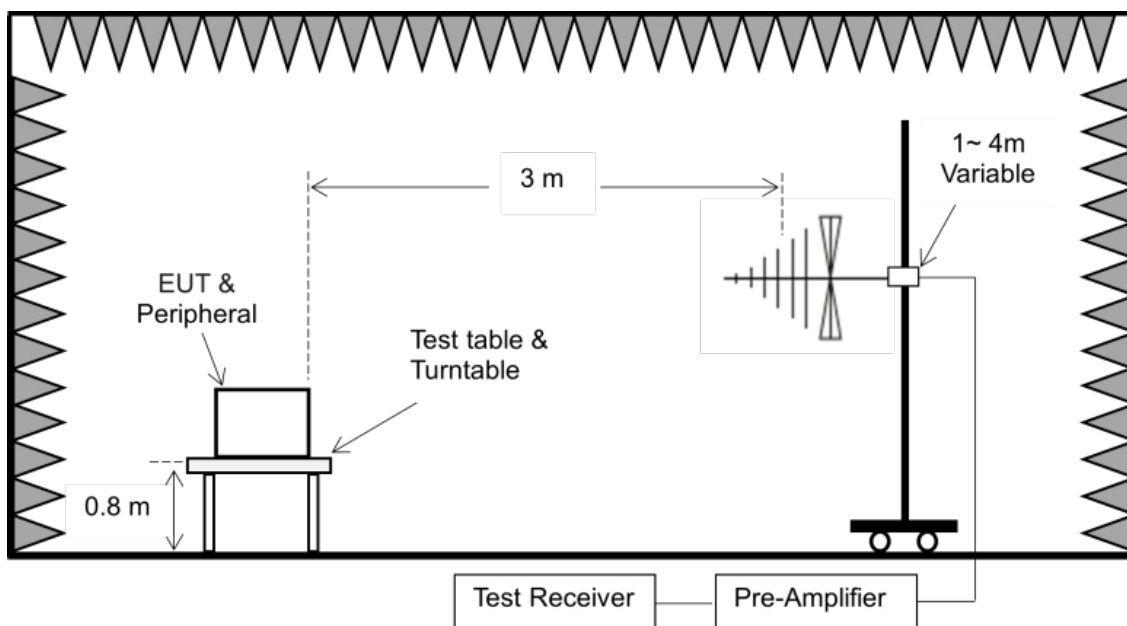


Figure 2. 30MHz to 1GHz

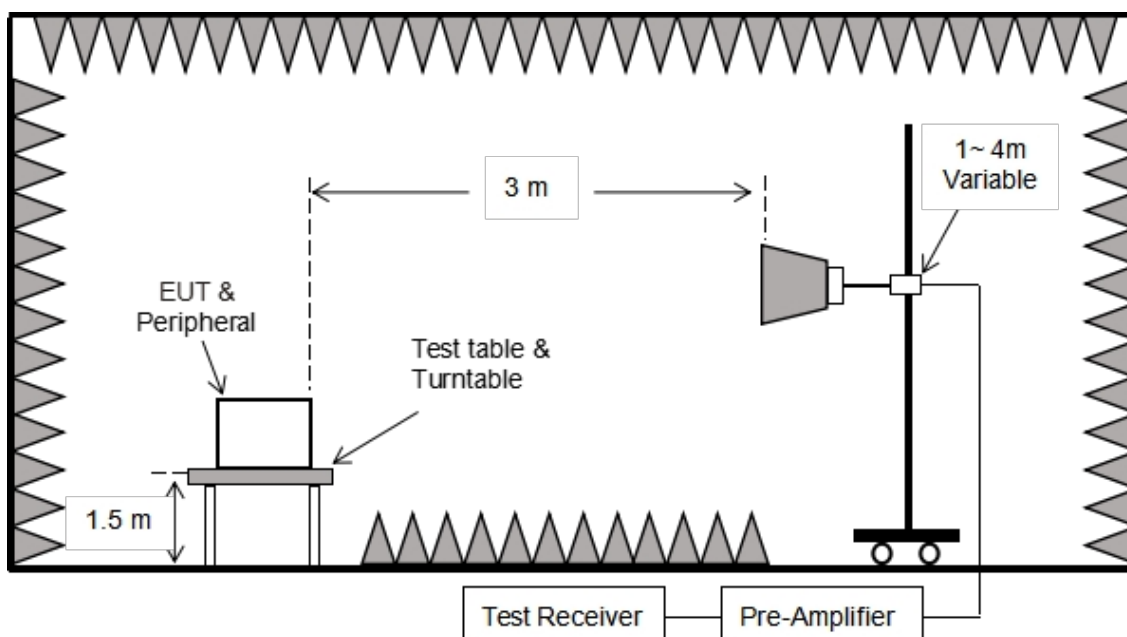


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

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.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

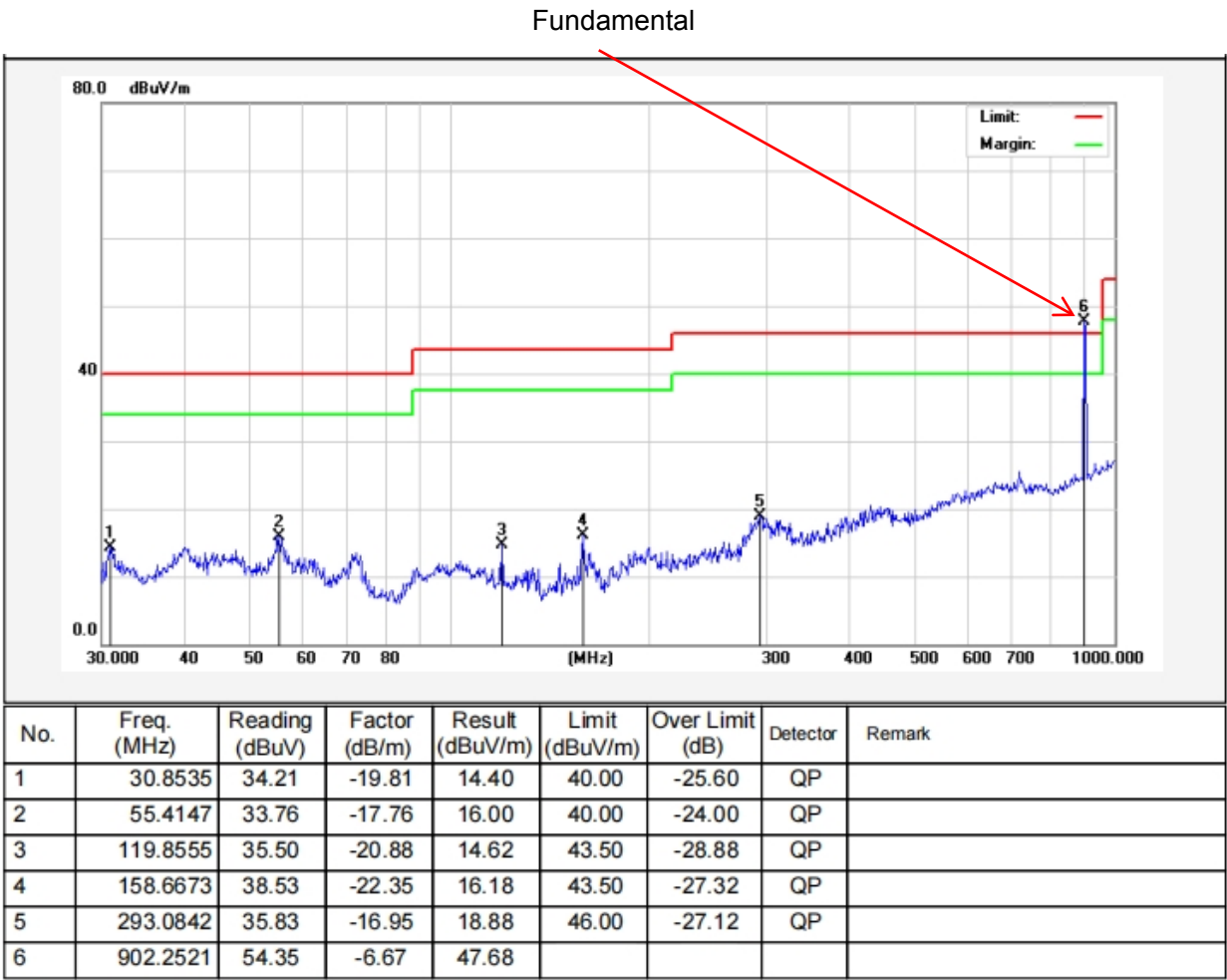
During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, only the worst case is recorded in the report.

Test Results (30~1000MHz)

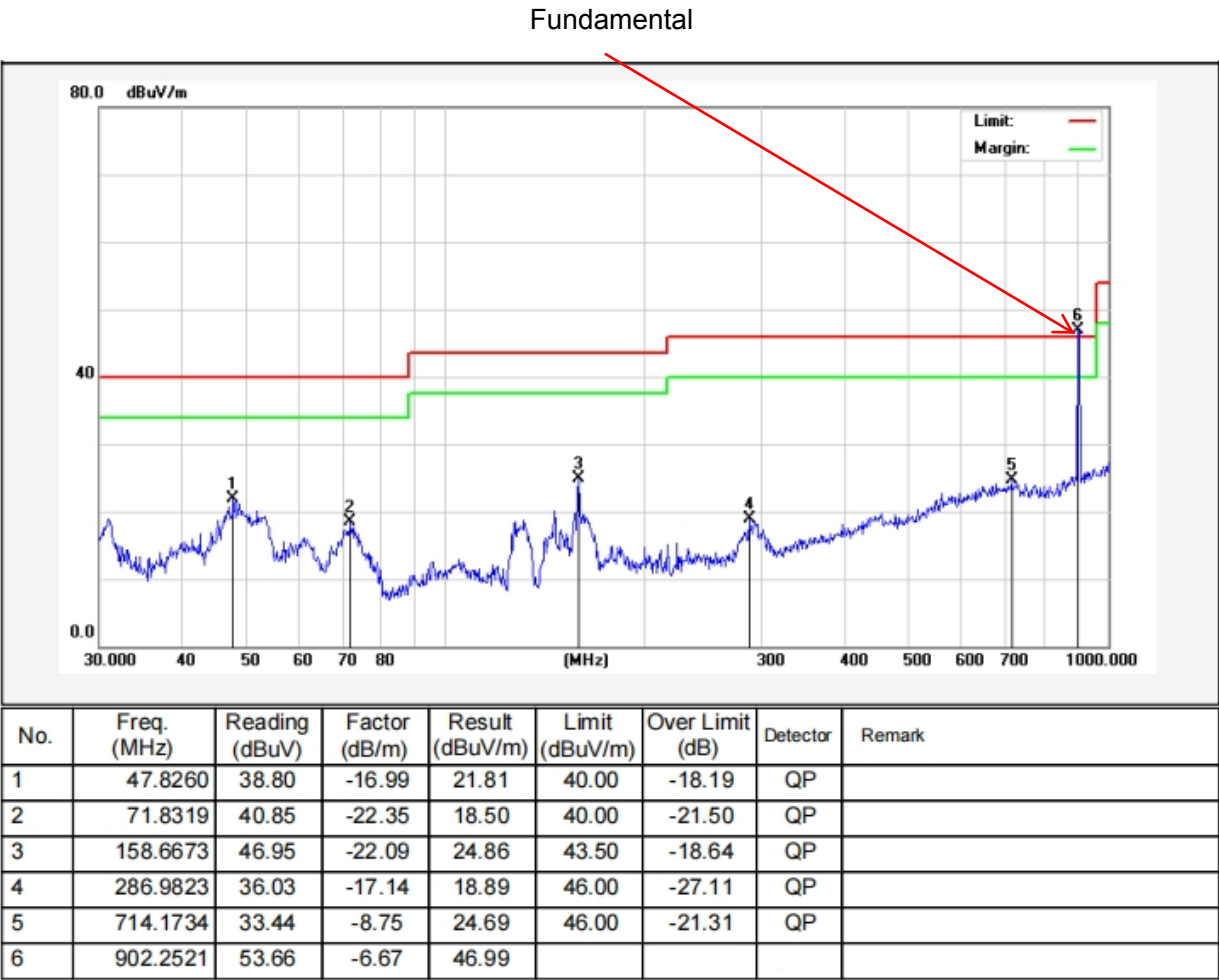
Test Mode: 902.25MHz
Power Source: DC 5V from adapter input AC 120V/60Hz
Polarization: Horizontal
Temp.(°C)/Hum.(%RH): 22.5°C/55%RH



Note: Result = Reading + Factor Over Limit = Result - Limit

Test Results (30~1000MHz)

Test Mode: 902.25MHz
Power Source: DC 5V from adapter input AC 120V/60Hz
Polarization: Vertical
Temp.(°C)/Hum.(%RH): 22.5°C/55%RH



Note: Result = Reading + Factor Over Limit = Result - Limit

Test Results (1GHz-25GHz)

Test channel: Lowest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1804.50	29.44	15.27	44.71	74.00	-29.29	Vertical
2706.75	30.57	18.09	48.66	74.00	-25.34	Vertical
3609.00	31.87	23.76	55.63	74.00	-18.37	Vertical
4511.25	*			74.00		Vertical
5413.50	*			74.00		Vertical
1804.50	29.80	15.27	45.07	74.00	-28.93	Horizontal
2706.75	30.44	18.09	48.53	74.00	-25.47	Horizontal
3609.00	29.48	23.76	53.24	74.00	-20.76	Horizontal
4511.25	*			74.00		Horizontal
5413.50	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
1804.50	18.82	15.27	34.09	54.00	-19.91	Vertical
2706.75	19.60	18.09	37.69	54.00	-16.31	Vertical
3609.00	20.89	23.76	44.65	54.00	-9.35	Vertical
4511.25	*			54.00		Vertical
5413.50	*			54.00		Vertical
1804.50	18.15	15.27	33.42	54.00	-20.58	Horizontal
2706.75	19.50	18.09	37.59	54.00	-16.41	Horizontal
3609.00	18.79	23.76	42.55	54.00	-11.45	Horizontal
4511.25	*			54.00		Horizontal
5413.50	*			54.00		Horizontal

Test Results (1GHz-25GHz)

Test channel: Middle						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1829.50	29.46	15.42	44.88	74.00	-29.12	Vertical
2744.25	30.42	18.02	48.44	74.00	-25.56	Vertical
3659.00	30.88	23.80	54.68	74.00	-19.32	Vertical
4573.75	*			74.00		Vertical
5488.50	*			74.00		Vertical
1829.50	29.50	15.42	44.92	74.00	-29.08	Horizontal
2744.25	30.43	18.02	48.45	74.00	-25.55	Horizontal
3659.00	29.18	23.80	52.98	74.00	-21.02	Horizontal
4573.75	*			74.00		Horizontal
5488.50	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	
1829.50	18.55	15.42	33.97	54.00	-20.03	polarization
2744.25	19.70	18.02	37.72	54.00	-16.28	Vertical
3659.00	20.75	23.80	44.55	54.00	-9.45	Vertical
4573.75	*			54.00		Vertical
5488.50	*			54.00		Vertical
1829.50	18.06	15.42	33.48	54.00	-20.52	Vertical
2744.25	19.06	18.02	37.08	54.00	-16.92	Horizontal
3659.00	19.30	23.80	43.10	54.00	-10.90	Horizontal
4573.75	*			54.00		Horizontal
5488.50	*			54.00		Horizontal



Test Results (1GHz-25GHz)

Test channel: Highest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
1853.50	27.82	15.58	43.40	74.00	-30.60	Vertical
2780.25	28.61	17.93	46.54	74.00	-27.46	Vertical
3707.00	29.16	23.83	52.99	74.00	-21.02	Vertical
4633.75	*			74.00		Vertical
5560.50	*			74.00		Vertical
1853.50	27.71	15.58	43.29	74.00	-30.71	Horizontal
2780.25	28.69	17.93	46.62	74.00	-27.38	Horizontal
3707.00	28.86	23.83	52.69	74.00	-21.31	Horizontal
4633.75	*			74.00		Horizontal
5560.50	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
1853.50	17.76	15.58	33.34	54.00	-20.66	Vertical
2780.25	18.89	17.93	36.82	54.00	-17.18	Vertical
3707.00	19.03	23.83	42.86	54.00	-11.15	Vertical
4633.75	*			54.00		Vertical
5560.50	*			54.00		Vertical
1853.50	17.64	15.58	33.22	54.00	-20.78	Horizontal
2780.25	18.66	17.93	36.59	54.00	-17.41	Horizontal
3707.00	18.20	23.83	42.03	54.00	-11.97	Horizontal
4633.75	*			54.00		Horizontal
5560.50	*			54.00		Horizontal

Remark:

1.Result =Reading + Factor

2. Test frequency are from 1GHz to 25GHz, "*"means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

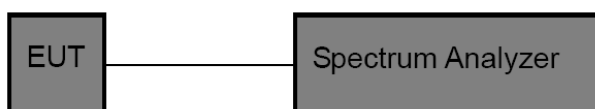


5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (b)(2)
Test Limit	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

5.2. Test Setup



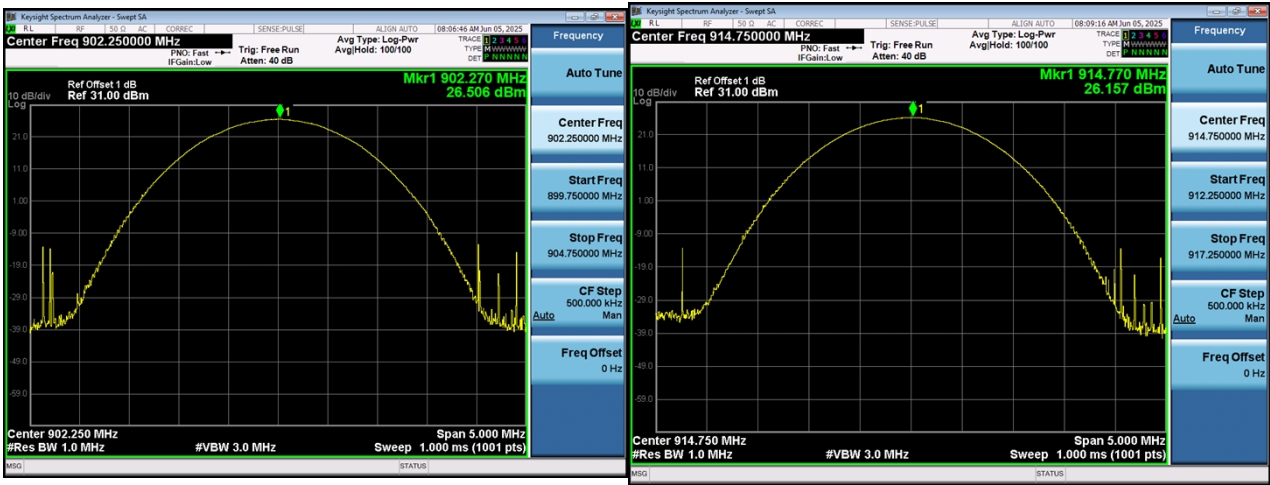
5.3. Test Procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above,
- Spectrum Setting:
 - RBW > the 20 dB bandwidth of the emission being measured
 - Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
 - VBW ≥ RBW
 - Sweep = auto
 - Detector function = peak
 - Trace = max hold

5.4. Test Data

Temperature:	25.3 °C	Humidity:	48 %	Atmospheric Pressure:	101 kPa
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Test Channel	Peak Power output (dBm)	Limit (dBm)	Results
Low	26.506	30.00	PASS
Middle	26.157	30.00	PASS
High	28.843	30.00	PASS



Low Channel

Mid Channel



High Channel