



Report No.: TWN2507602E

Applicant: Digipal UK Group Limited

Product: DigiFind

Model No.: SNT-FM24

Trademark: DIGIPAL

Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Terry Tang

Manager

Dated: July 25, 2025

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

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Special Statement:

FCC-Registration No.: 744189

The 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.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996

1.2 Applicant Details

Applicant: Digipal UK Group Limited
Address: 4200 Waterside Solihull Parkway, Birmingham Business Park, Birmingham, England

1.3 Description of EUT

Product: DigiFind
Manufacturer: Shenzhen MODSEMI Co., Ltd
Address: 1311 Huafeng International Business Building, 4018 Baoan Avenue, Xixiang Street, Baoan District, Shenzhen
Trademark: DIGIPAL
Additional Trademark: N/A
Model Number: SNT-FM24
Additional Model Number: N/A
Hardware Version: V1.1
Software Version: V2.2.0.0
Serial No.: N/A
Type of Modulation: GFSK
Frequency range: 2402-2480MHz (Bluetooth Low Energy)
Channel Separation: 2MHz
Channel Number: 40MHz
Power Input: DC5V 0.1A
Battery: DC3.7V, 100mAh Li-ion battery
Antenna Designation: PCB antenna with gain 2.97dBi maximum (Get from the antenna specification)

1.4 Submitted Sample: 3 Samples

1.5 Test Duration

2025-07-15 to 2025-07-25

1.6 Test Uncertainty

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Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Andy Xing

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100253	2025-07-11	2026-07-10
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2025-07-11	2026-07-10
Loop Antenna	EMCO	6507	00078608	2022-07-18 2025-07-17	2025-07-17 2028-07-16
Spectrum	R&S	FSIQ26	100292	2025-07-11	2026-07-10
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18 2025-07-17	2025-07-17 2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18 2025-07-17	2025-07-17 2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2025-07-11	2026-07-10
Power sensor	Anritsu	MA2491A	32263	2025-07-11	2026-07-10
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18 2025-07-17	2025-07-17 2028-07-16
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESCS 30	834115/006	2025-07-11	2026-07-10
Spectrum	HP/Agilent	E4407B	MY50441392	2025-07-11	2026-07-10
Spectrum	RS	FSP	1164.4391.38	2025-07-11	2026-07-10
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2025-07-11	2026-07-10
RF Cable	Zhengdi	7m	--	2025-07-11	2026-07-10
Pre-Amplifier	Schwarebeck	BBV9743	#218	2025-07-11	2026-07-10
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2025-07-11	2026-07-10
LISN	SCHAFFNER	NNB42	00012	2025-07-11	2026-07-10
LISN	R&S	EZH3-Z5	100294	2025-07-11	2026-07-10

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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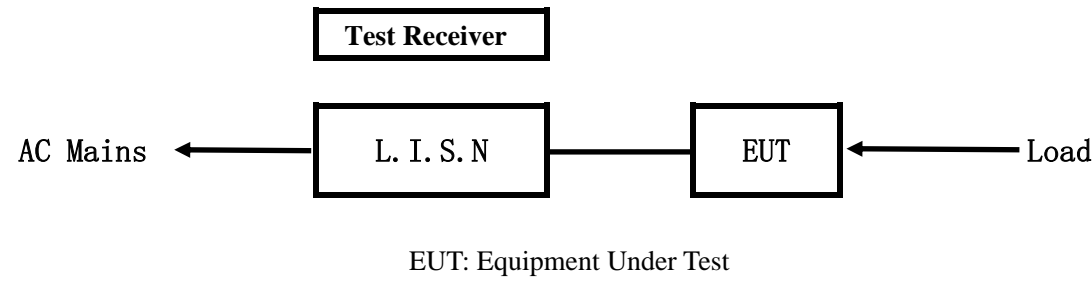
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

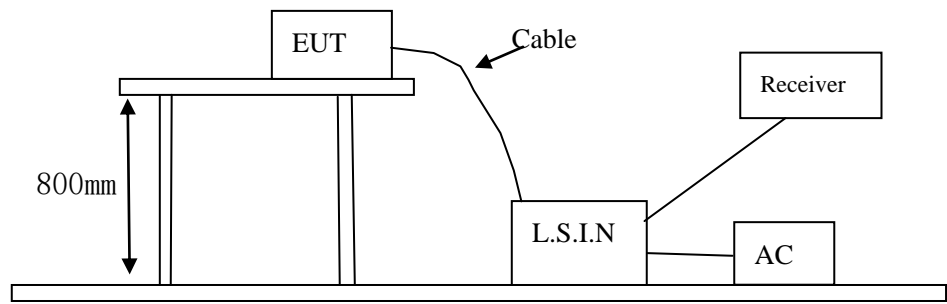


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
DigiFind	Shenzhen MODSEMI Co., Ltd	SNT-FM24	2BQUI-SNTFM24

B. Internal Device

Device	Manufacturer	Model	Rating

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C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: EUT not directly or in-directly connected to the AC power source, so this test item not applicable.



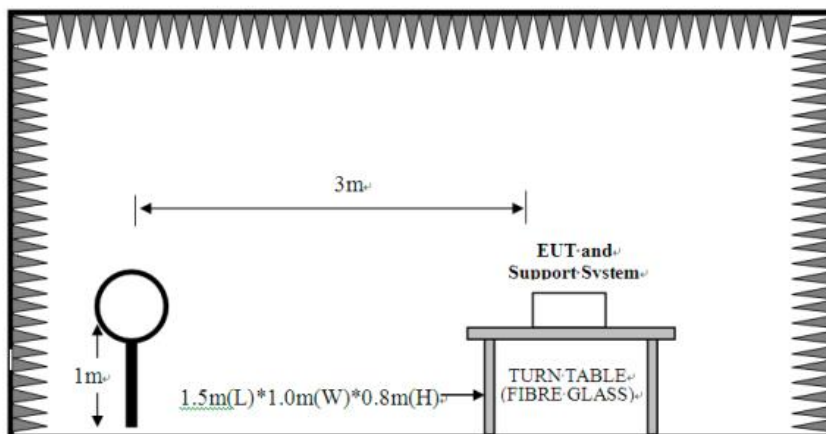
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



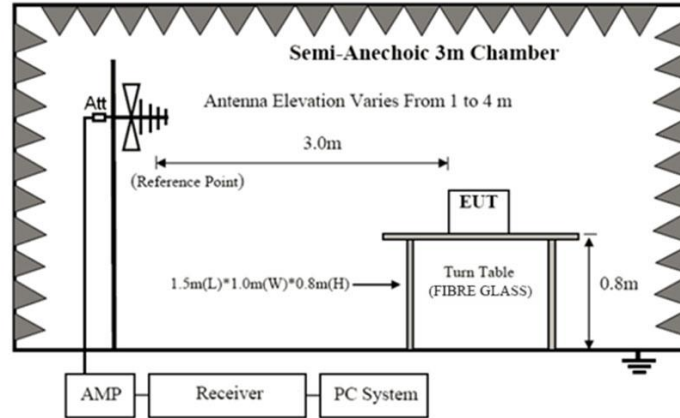
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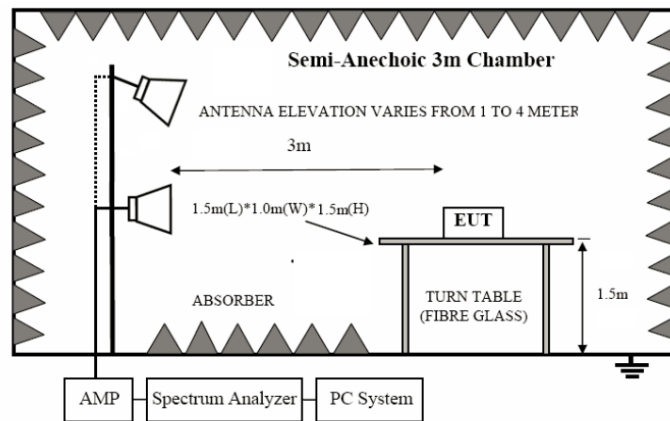
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
 5. Battery fully charged was used during the test.

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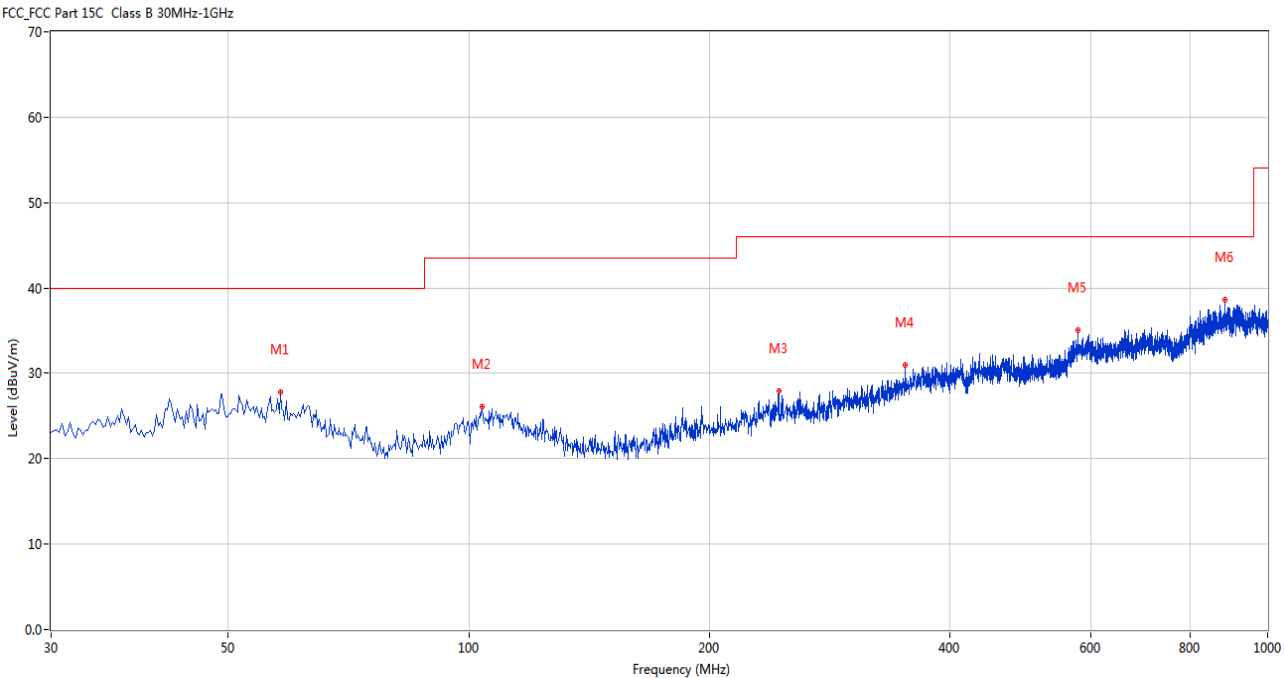
Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	58.123	27.78	-4.94	40.0	12.22	Peak	108.00	100	Horizontal	Pass
2	103.944	26.12	-6.49	43.5	17.38	Peak	100.00	100	Horizontal	Pass
3	244.316	27.97	-5.51	46.0	18.03	Peak	356.00	100	Horizontal	Pass
4	351.717	30.98	-2.44	46.0	15.02	Peak	287.00	100	Horizontal	Pass
5	578.883	35.09	1.78	46.0	10.91	Peak	83.00	100	Horizontal	Pass
6	883.387	38.66	4.95	46.0	7.34	Peak	225.00	100	Horizontal	Pass

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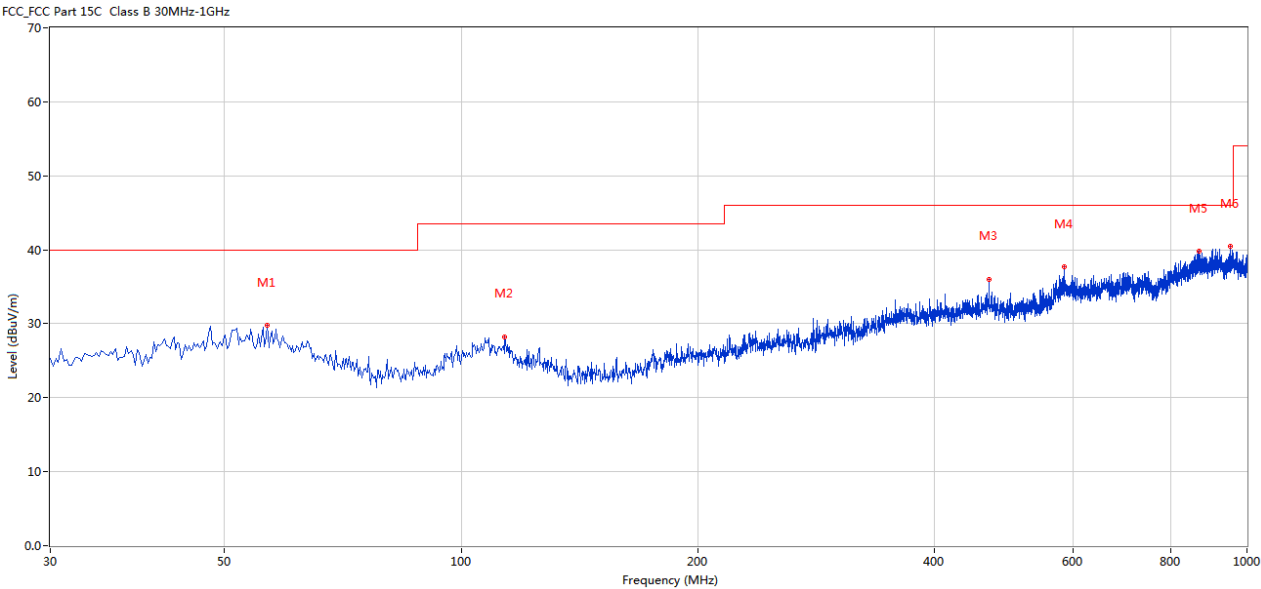
Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: **Pass**

Test Figure:



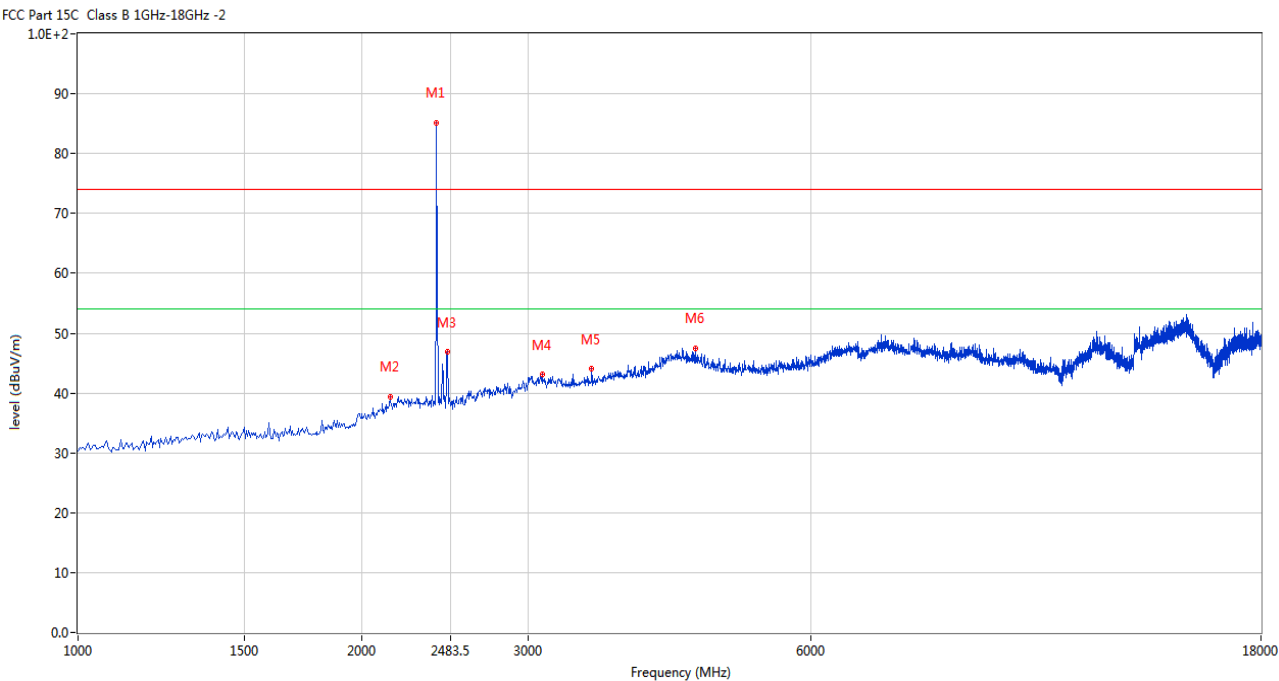
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	56.668	29.81	-4.99	40.0	10.19	Peak	151.00	100	Vertical	Pass
2	113.642	28.26	-6.49	40.0	11.74	Peak	348.00	100	Vertical	Pass
3	469.300	35.97	-0.10	47.0	11.03	Peak	133.00	100	Vertical	Pass
4	585.914	37.65	1.64	47.0	9.35	Peak	353.00	100	Vertical	Pass
5	868.113	39.77	4.91	47.0	7.23	Peak	50.00	100	Vertical	Pass
6	953.209	40.46	4.83	47.0	6.54	Peak	275.00	100	Vertical	Pass

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Test Figures above 1GHz:
LE-1M

Please refer to the following test plots for details:
Low Channel: Horizontal

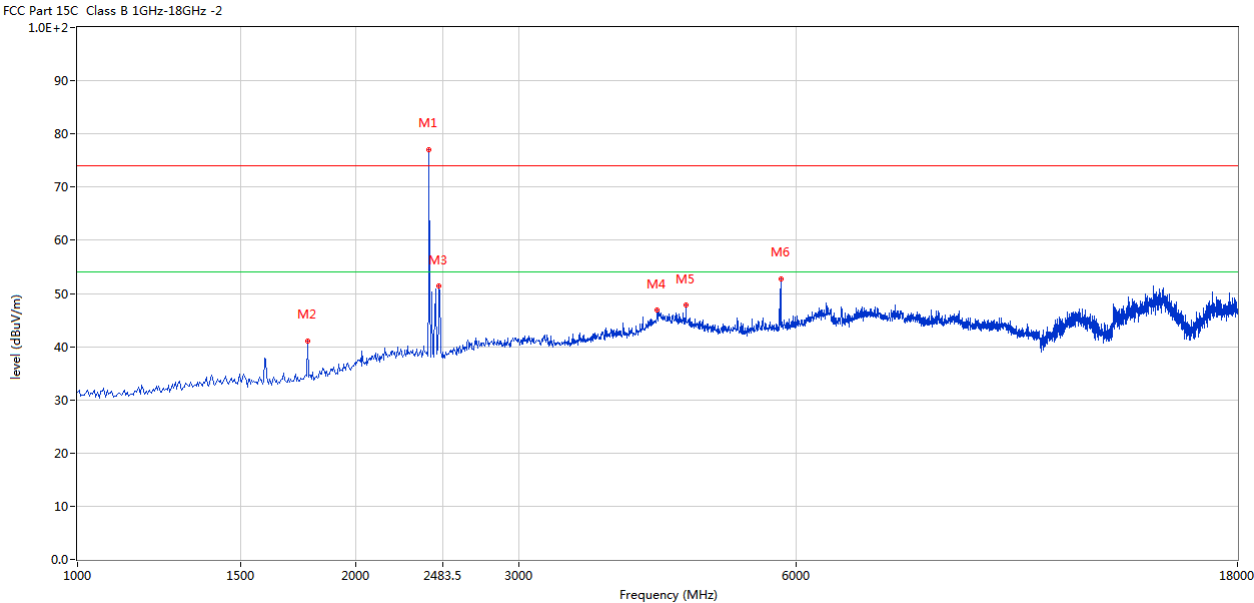


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	85.16	-3.57	74.0	11.16	Peak	287.00	100	Horizontal	N/A
2	2142.964	39.30	-3.82	74.0	-34.70	Peak	69.00	100	Horizontal	Pass
3	2465.884	46.92	-3.57	74.0	-27.08	Peak	349.00	100	Horizontal	Pass
4	3107.473	43.17	-2.18	74.0	-30.83	Peak	245.00	100	Horizontal	Pass
5	3506.873	43.99	-1.05	74.0	-30.01	Peak	11.00	100	Horizontal	Pass
6	4518.120	47.48	2.27	74.0	-26.52	Peak	106.00	100	Horizontal	Pass

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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	77.09	-3.57	74.0	3.09	Peak	120.00	100	Vertical	N/A
2	1773.307	41.13	-7.02	74.0	-32.87	Peak	115.00	100	Vertical	Pass
3	2461.635	51.37	-3.57	74.0	-22.63	Peak	222.00	100	Vertical	Pass
4	4241.940	46.83	1.70	74.0	-27.17	Peak	21.00	100	Vertical	Pass
5	4556.361	47.77	2.41	74.0	-26.23	Peak	84.00	100	Vertical	Pass
6	5775.806	52.78	3.83	74.0	-21.22	Peak	340.00	100	Vertical	Pass

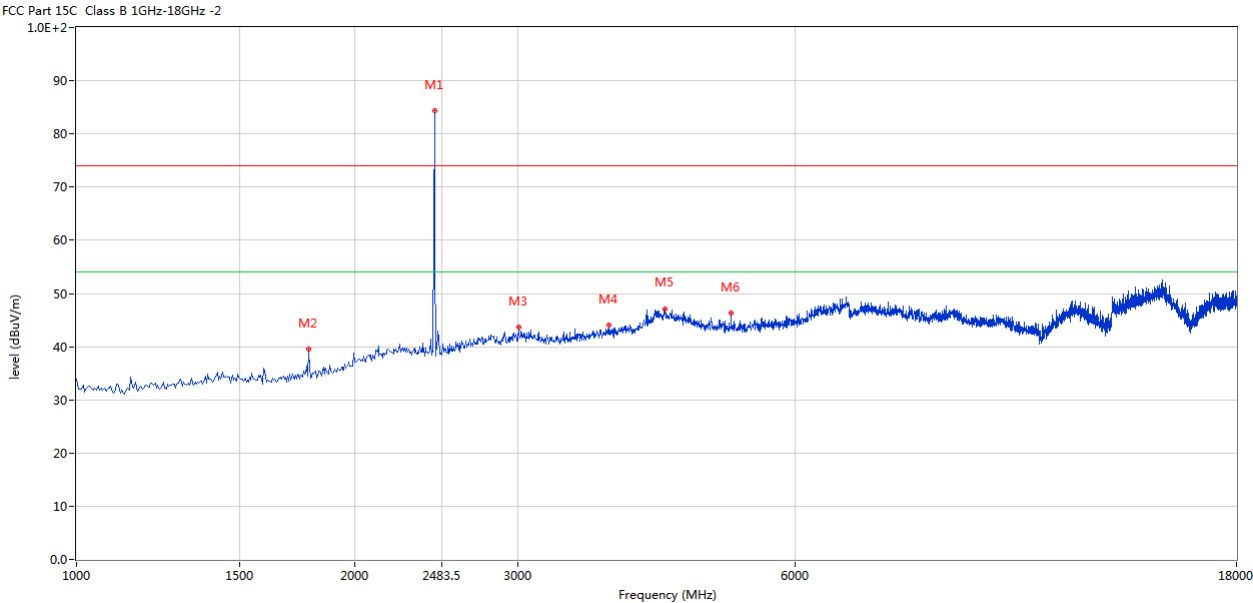
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	84.35	-3.57	74.0	10.35	Peak	303.00	100	Horizontal	N/A
2	1781.805	39.61	-6.95	74.0	-34.39	Peak	59.00	100	Horizontal	Pass
3	3009.748	43.68	-2.60	74.0	-30.32	Peak	308.00	100	Horizontal	Pass
4	3770.307	44.07	0.15	74.0	-29.93	Peak	214.00	100	Horizontal	Pass
5	4335.416	47.14	1.90	74.0	-26.86	Peak	282.00	100	Horizontal	Pass
6	5108.723	46.26	3.80	74.0	-27.74	Peak	345.00	100	Horizontal	Pass

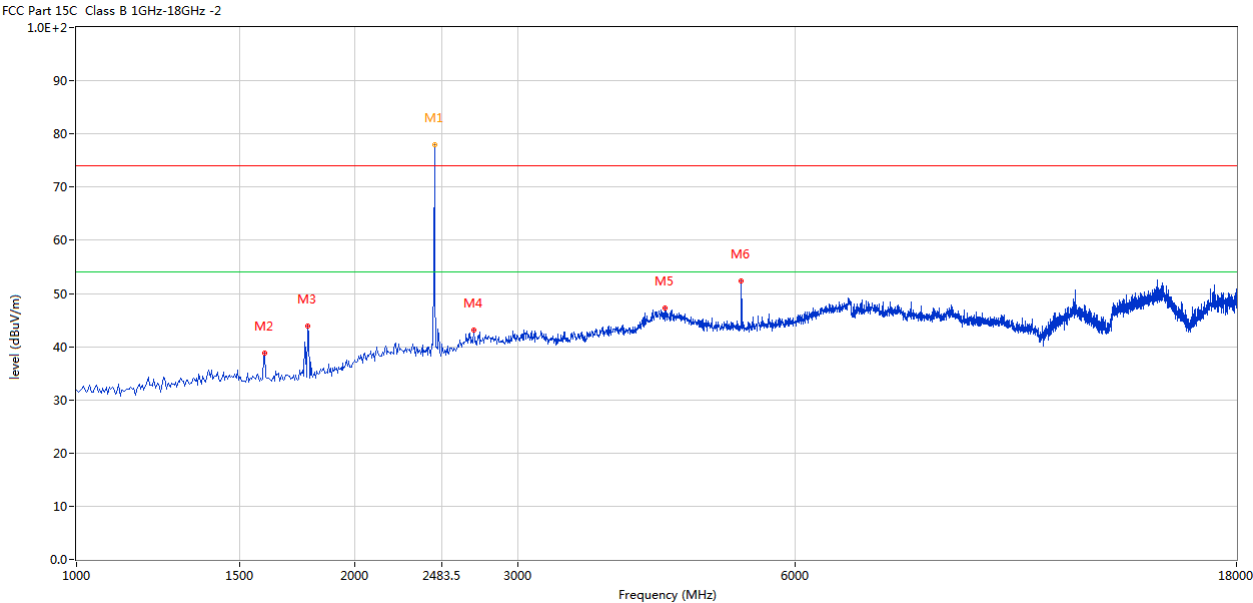
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	77.96	-3.57	74.0	3.96	Peak	141.00	100	Vertical	N/A
2	1599.100	38.81	-7.97	74.0	-35.19	Peak	203.00	100	Vertical	Pass
3	1777.556	43.89	-6.98	74.0	-30.11	Peak	291.00	100	Vertical	Pass
4	2691.077	43.16	-2.99	74.0	-30.84	Peak	131.00	100	Vertical	Pass
5	4331.167	47.33	1.89	74.0	-26.67	Peak	360.00	100	Vertical	Pass
6	5240.440	52.37	3.58	74.0	-21.63	Peak	271.00	100	Vertical	Pass

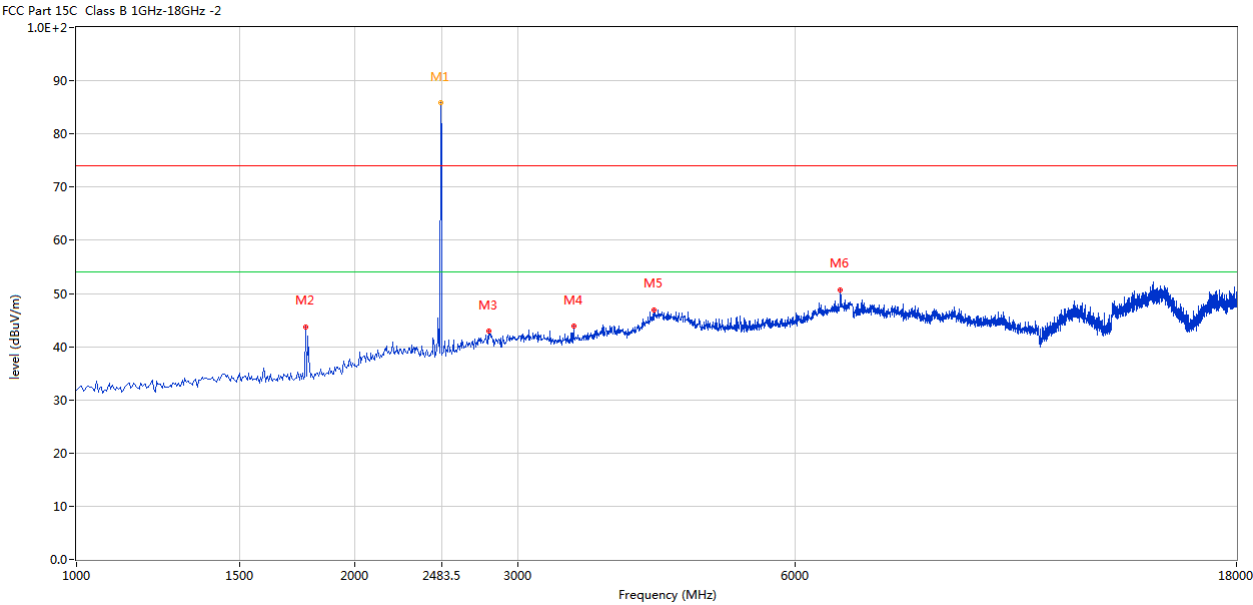
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	85.79	-3.57	74.0	11.79	Peak	47.00	100	Horizontal	N/A
2	1769.058	43.73	-7.05	74.0	-30.27	Peak	25.00	100	Horizontal	Pass
3	2797.301	42.89	-2.70	74.0	-31.11	Peak	360.00	100	Horizontal	Pass
4	3451.637	43.84	-1.43	74.0	-30.16	Peak	225.00	100	Horizontal	Pass
5	4212.197	46.88	1.63	74.0	-27.12	Peak	41.00	100	Horizontal	Pass
6	6702.074	50.72	6.67	74.0	-23.28	Peak	341.00	100	Horizontal	Pass

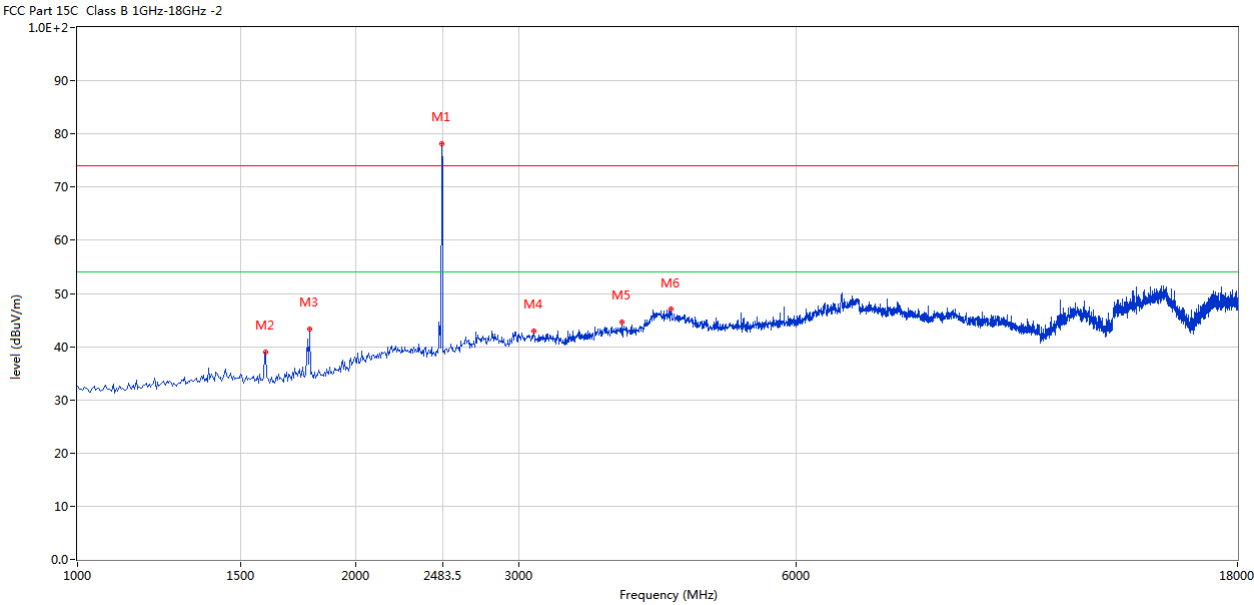
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	78.16	-3.57	74.0	4.16	Peak	125.00	100	Vertical	N/A
2	1599.100	38.93	-7.97	74.0	-35.07	Peak	198.00	100	Vertical	Pass
3	1781.805	43.40	-6.95	74.0	-30.60	Peak	151.00	100	Vertical	Pass
4	3120.220	43.01	-2.15	74.0	-30.99	Peak	204.00	100	Vertical	Pass
5	3880.780	44.65	0.72	74.0	-29.35	Peak	188.00	100	Vertical	Pass
6	4390.652	47.03	1.99	74.0	-26.97	Peak	47.00	100	Vertical	Pass

- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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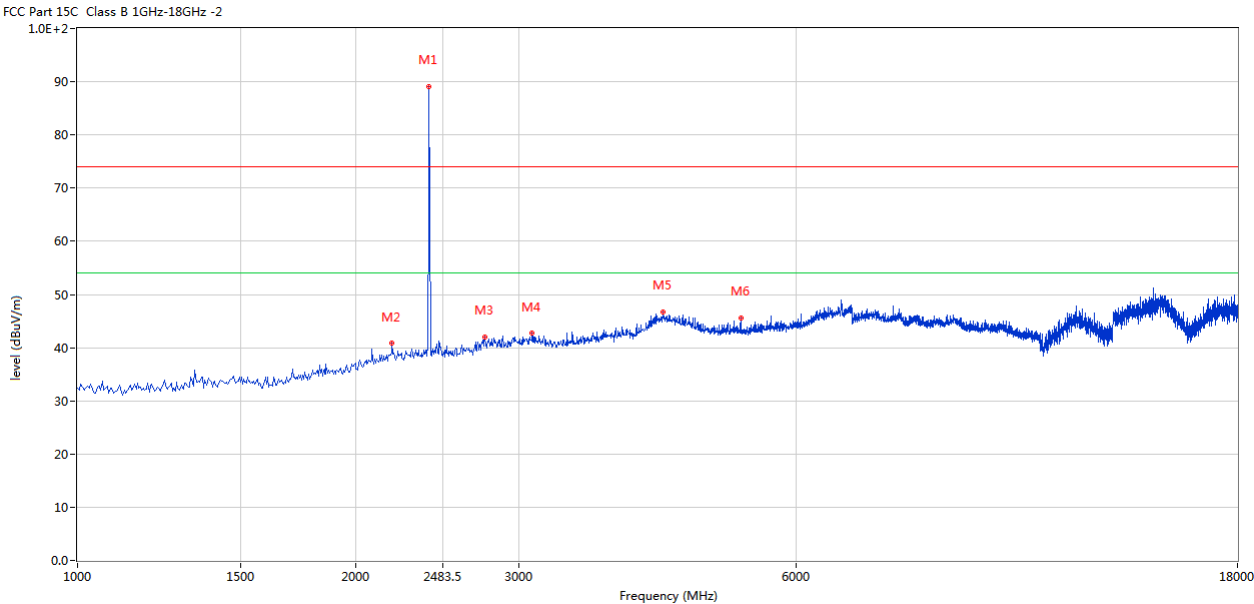
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LE-2M

Please refer to the following test plots for details:

Low Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	89.15	-3.57	74.0	15.15	Peak	190.00	100	Horizontal	N/A
2	2189.703	40.86	-3.35	74.0	-33.14	Peak	32.00	100	Horizontal	Pass
3	2759.060	42.03	-2.80	74.0	-31.97	Peak	312.00	100	Horizontal	Pass
4	3103.224	42.81	-2.19	74.0	-31.19	Peak	360.00	100	Horizontal	Pass
5	4301.425	46.78	1.84	74.0	-27.22	Peak	0.00	100	Horizontal	Pass
6	5219.195	45.58	3.61	74.0	-28.42	Peak	0.00	100	Horizontal	Pass

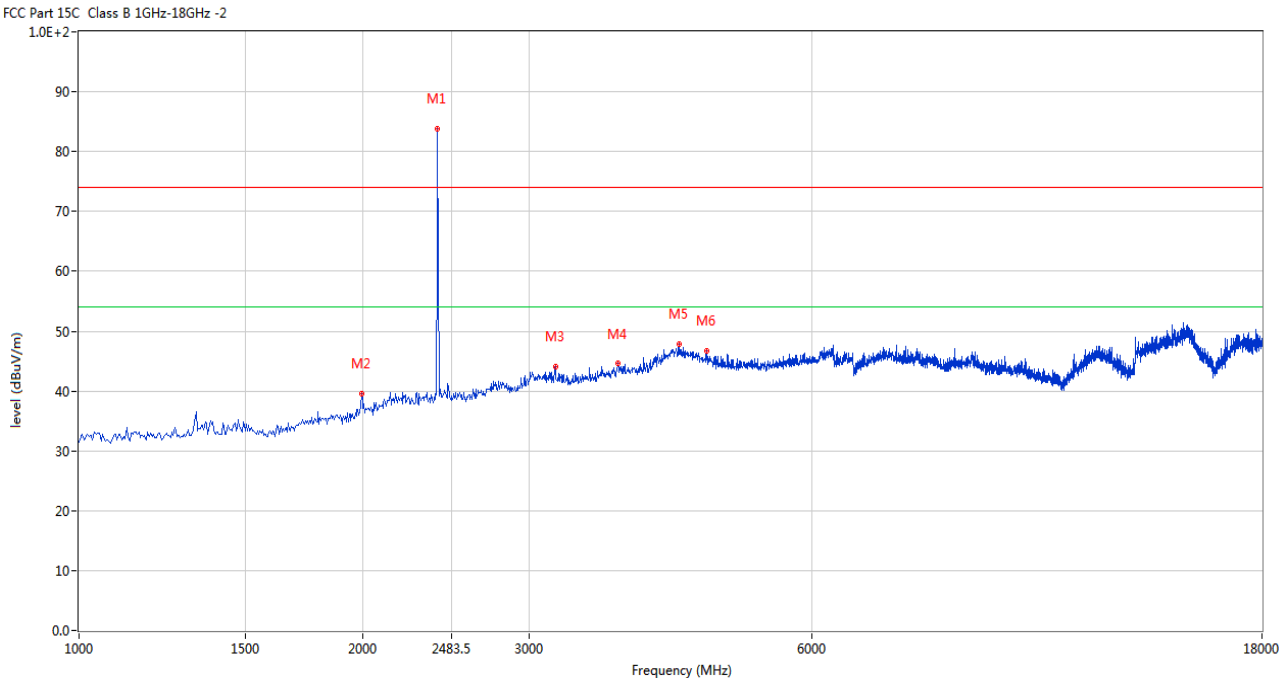
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Low Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402	83.86	-3.57	74.0	9.86	Peak	300.00	100	Vertical	N/A
2	1994.251	39.51	-5.16	74.0	-34.49	Peak	150.00	100	Vertical	Pass
3	3200.950	44.09	-1.97	74.0	-29.91	Peak	116.00	100	Vertical	Pass
4	3732.067	44.56	-0.05	74.0	-29.44	Peak	0.00	100	Vertical	Pass
5	4331.167	47.90	1.89	74.0	-26.10	Peak	360.00	100	Vertical	Pass
6	4637.091	46.78	2.68	74.0	-27.22	Peak	275.00	100	Vertical	Pass

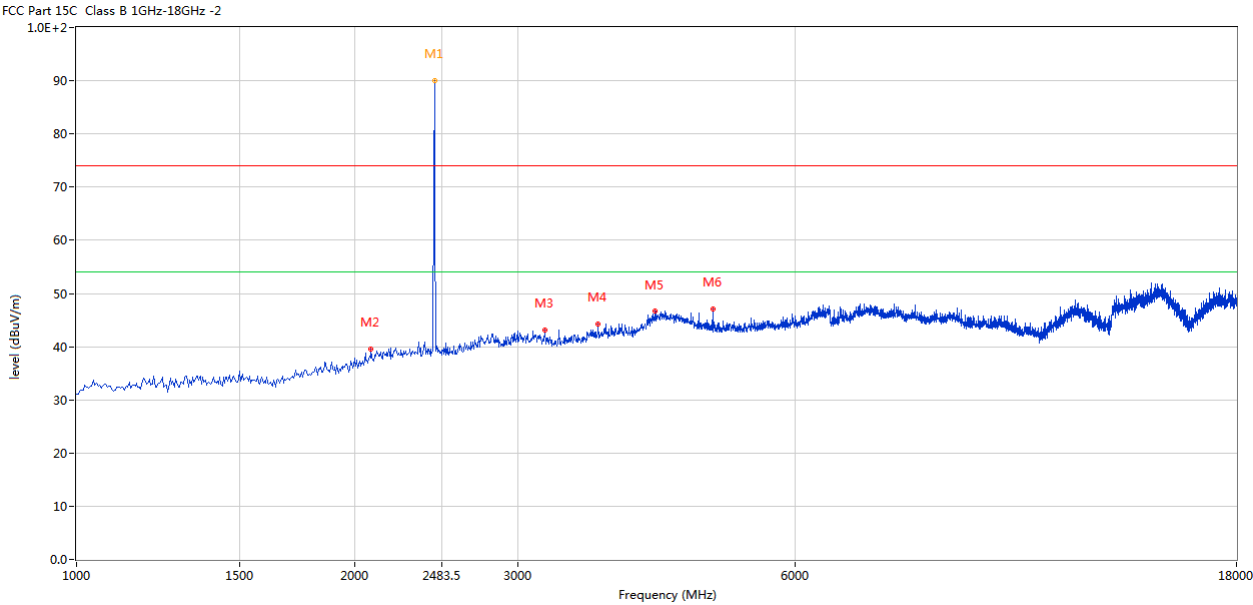
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Middle Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	89.98	-3.57	74.0	15.98	Peak	188.00	100	Horizontal	N/A
2	2083.479	39.54	-4.39	74.0	-34.46	Peak	228.00	100	Horizontal	Pass
3	3209.448	43.21	-1.98	74.0	-30.79	Peak	223.00	100	Horizontal	Pass
4	3668.333	44.33	-0.34	74.0	-29.67	Peak	86.00	100	Horizontal	Pass
5	4229.193	46.65	1.67	74.0	-27.35	Peak	223.00	100	Horizontal	Pass
6	4879.280	47.16	3.20	74.0	-26.84	Peak	188.00	100	Horizontal	Pass

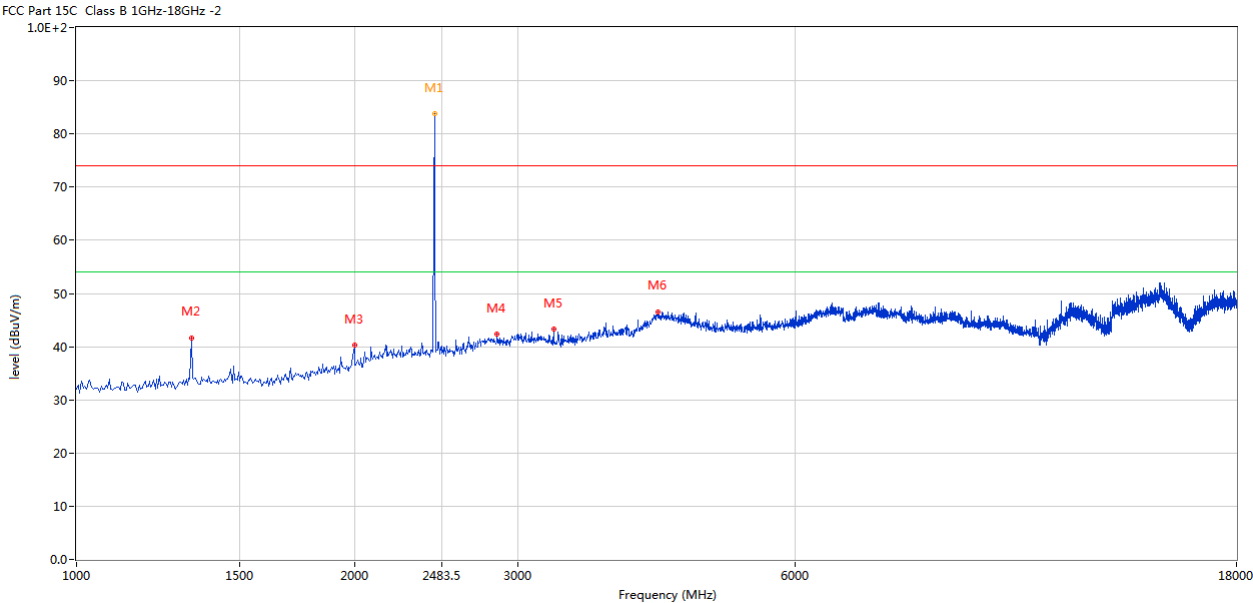
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Middle Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2440	83.74	-3.57	74.0	9.74	Peak	316.00	100	Vertical	N/A
2	1331.417	41.70	-8.21	74.0	-32.30	Peak	166.00	100	Vertical	Pass
3	1998.500	40.33	-5.12	74.0	-33.67	Peak	336.00	100	Vertical	Pass
4	2852.537	42.32	-2.68	74.0	-31.68	Peak	250.00	100	Vertical	Pass
5	3281.680	43.24	-2.09	74.0	-30.76	Peak	206.00	100	Vertical	Pass
6	4263.184	46.51	1.75	74.0	-27.49	Peak	216.00	100	Vertical	Pass

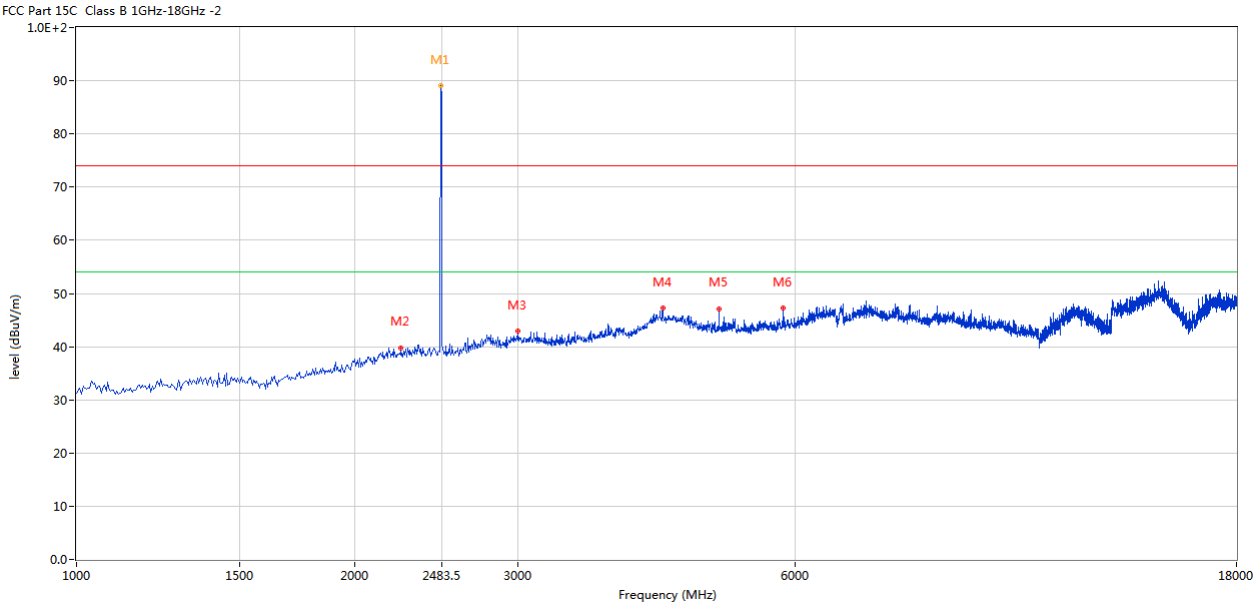
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High Channel: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	89.11	-3.57	74.0	15.11	Peak	190.00	100	Horizontal	N/A
2	2244.939	39.78	-3.22	74.0	-34.22	Peak	231.00	100	Horizontal	Pass
3	3005.499	42.90	-2.62	74.0	-31.10	Peak	323.00	100	Horizontal	Pass
4	4309.923	47.23	1.86	74.0	-26.77	Peak	254.00	100	Horizontal	Pass
5	4960.010	47.13	3.36	74.0	-26.87	Peak	190.00	100	Horizontal	Pass
6	5814.046	47.18	3.83	74.0	-26.82	Peak	190.00	100	Horizontal	Pass

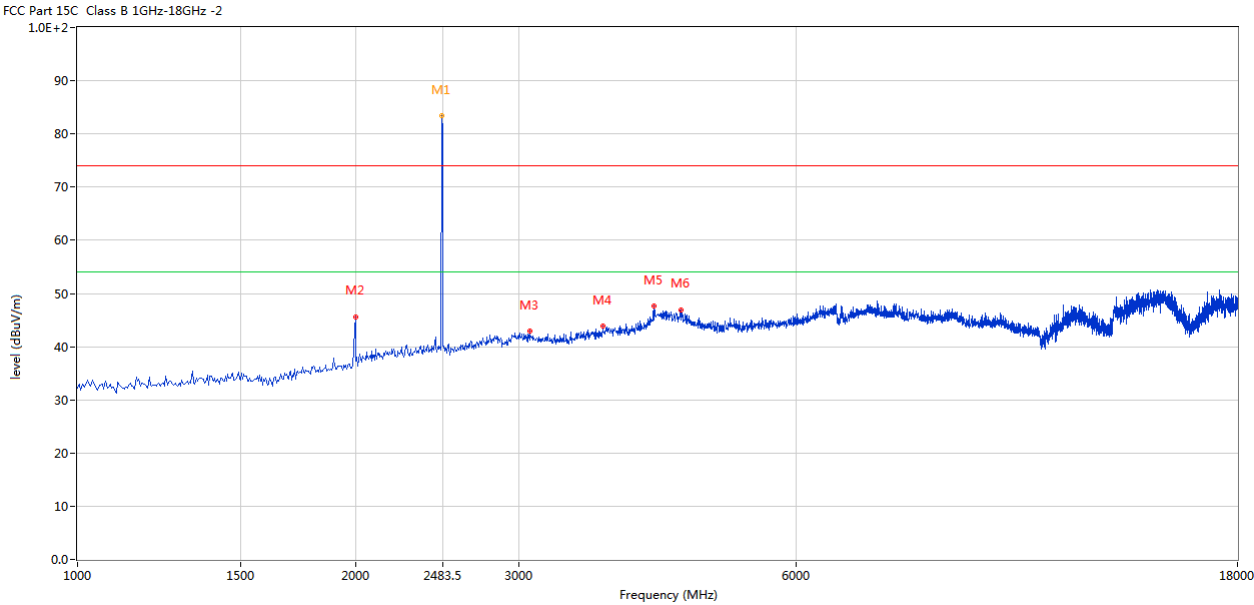
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High Channel: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2480	83.51	-3.57	74.0	9.51	Peak	69.00	100	Vertical	N/A
2	1998.500	45.57	-5.12	74.0	-28.43	Peak	162.00	100	Vertical	Pass
3	3086.228	42.96	-2.26	74.0	-31.04	Peak	5.00	100	Vertical	Pass
4	3702.324	43.84	-0.21	74.0	-30.16	Peak	177.00	100	Vertical	Pass
5	4203.699	47.55	1.61	74.0	-26.45	Peak	194.00	100	Vertical	Pass
6	4501.125	46.98	2.21	74.0	-27.02	Peak	360.00	100	Vertical	Pass

- Note: 1. Level = Reading + AF + Cable - Preamp
2. For the radiated emissions above 18G and below 30MHz, it is the floor noise.
3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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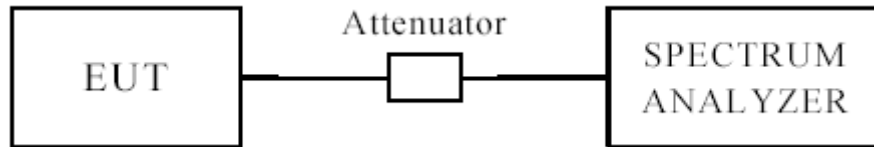
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 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) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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LE-1M

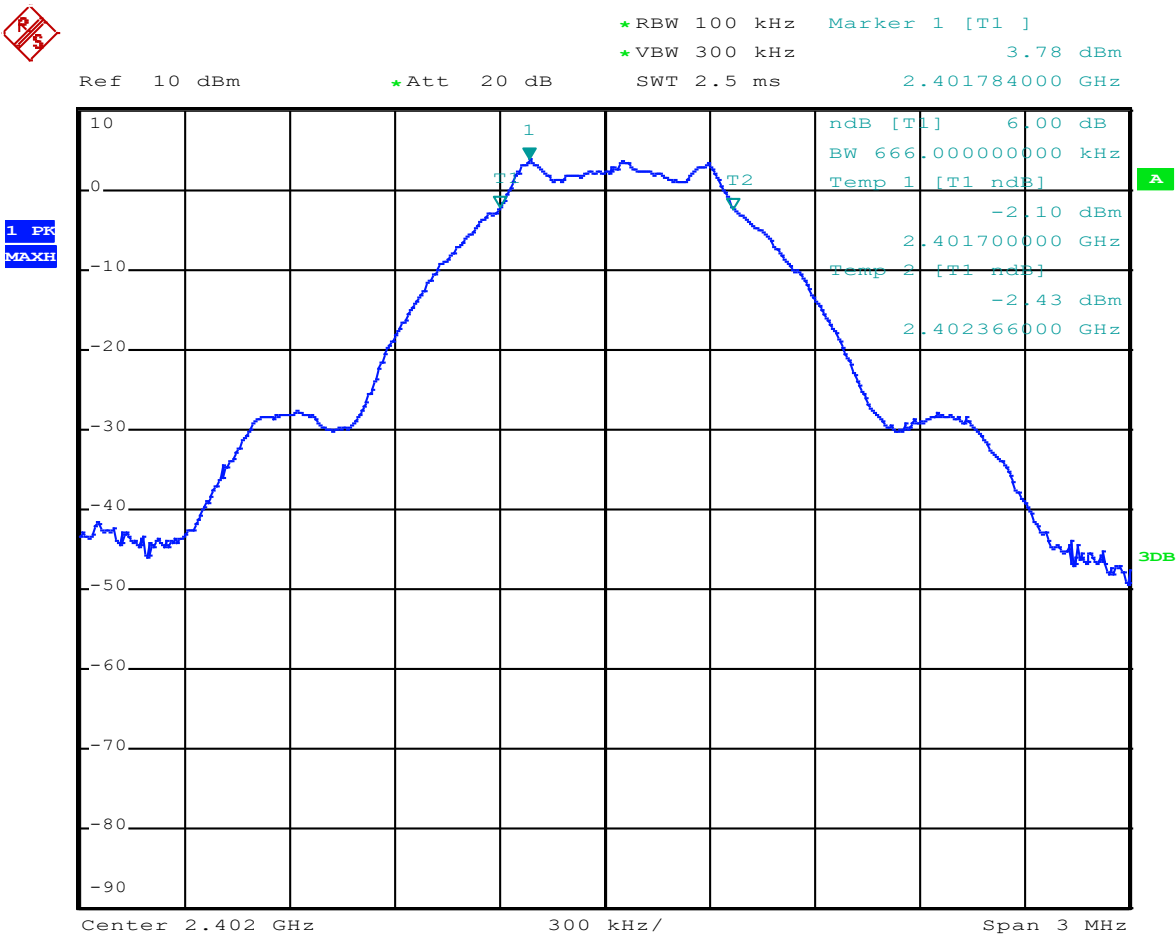
EUT	DigiFind		Model	SNT-FM24
Mode	Keep Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	666	500	Pass
Middle	2440	666	500	Pass
High	2480	672	500	Pass

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Test Figure:

1. Condition: Low Channel

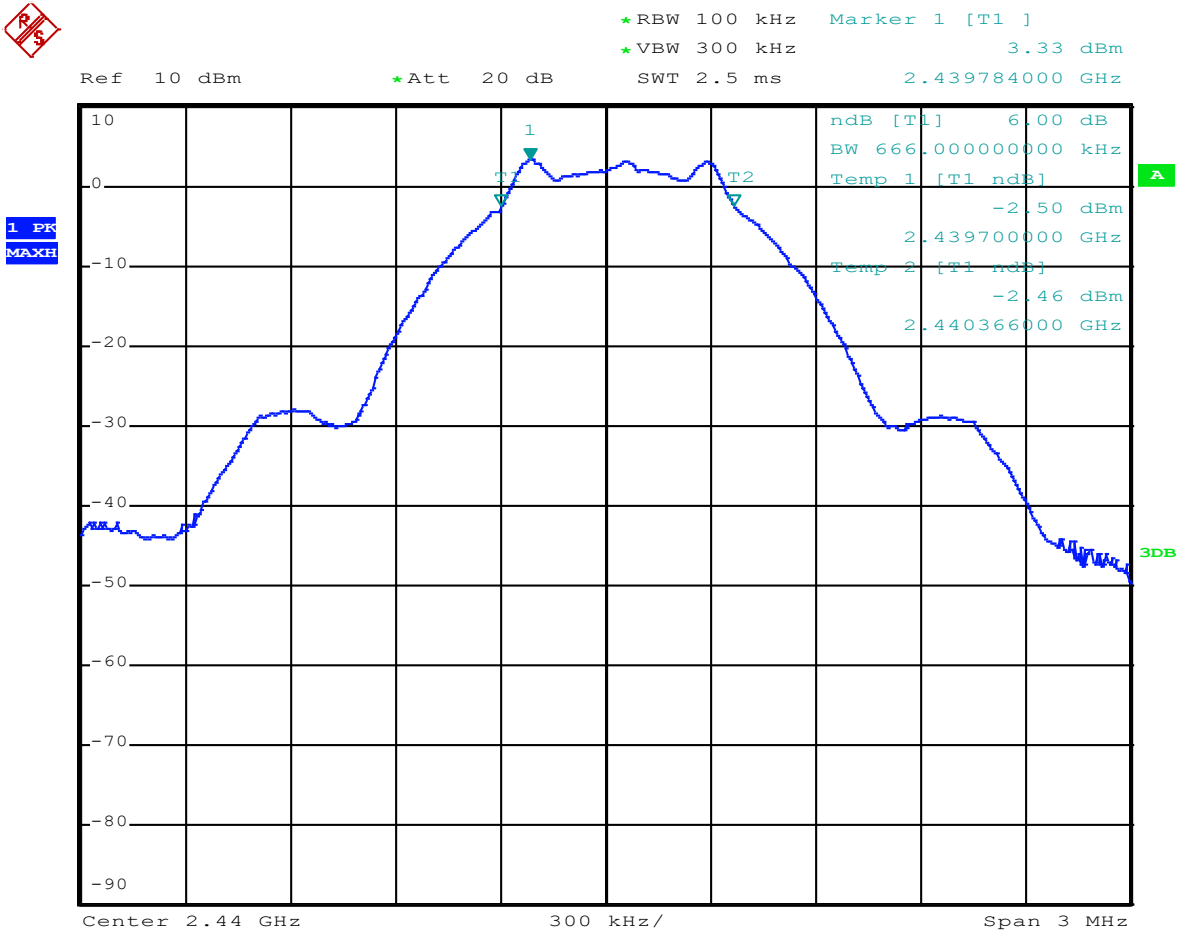


Date: 24.JUL.2025 11:08:07

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2. Condition: Middle Channel

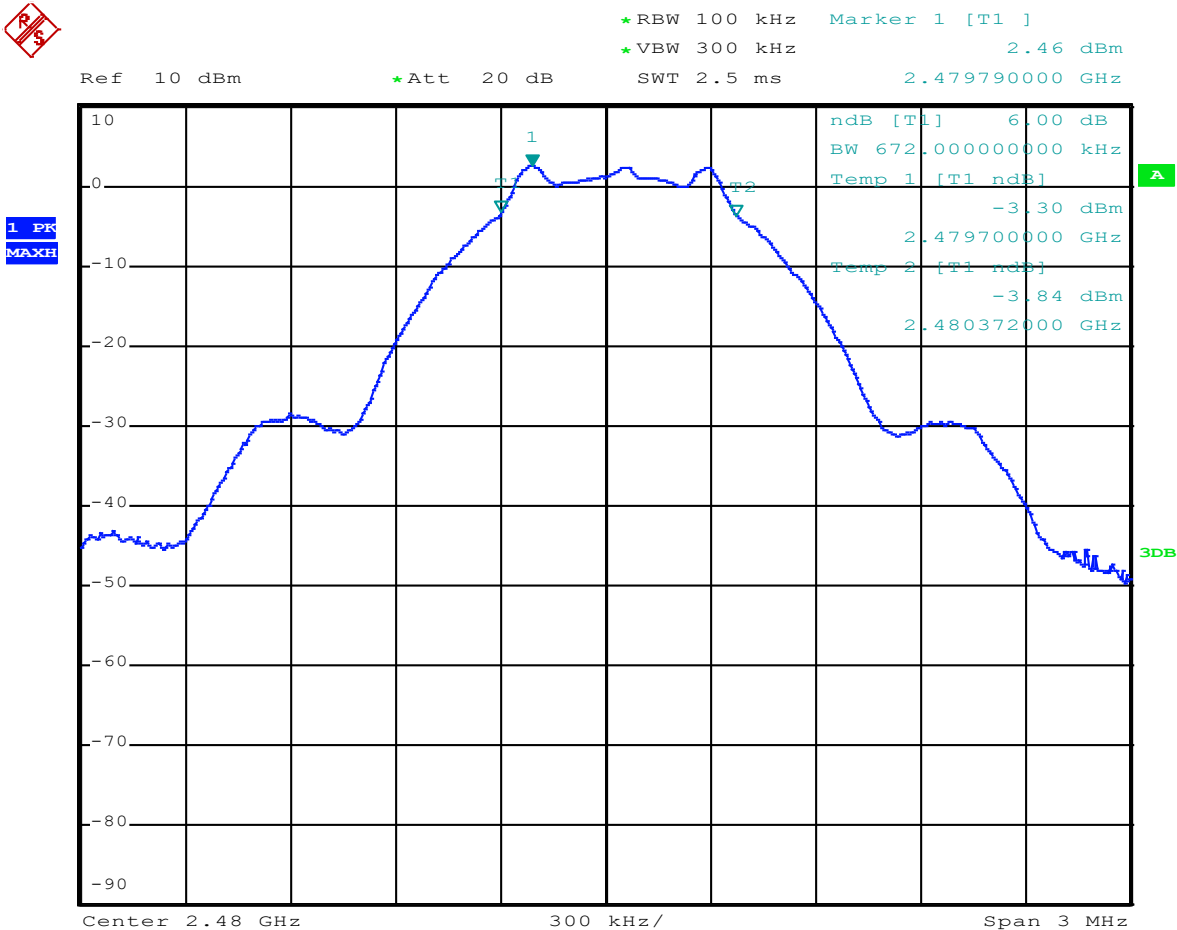


Date: 24.JUL.2025 11:09:58

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3. High Channel



Date: 24.JUL.2025 11:11:19

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LE-2M

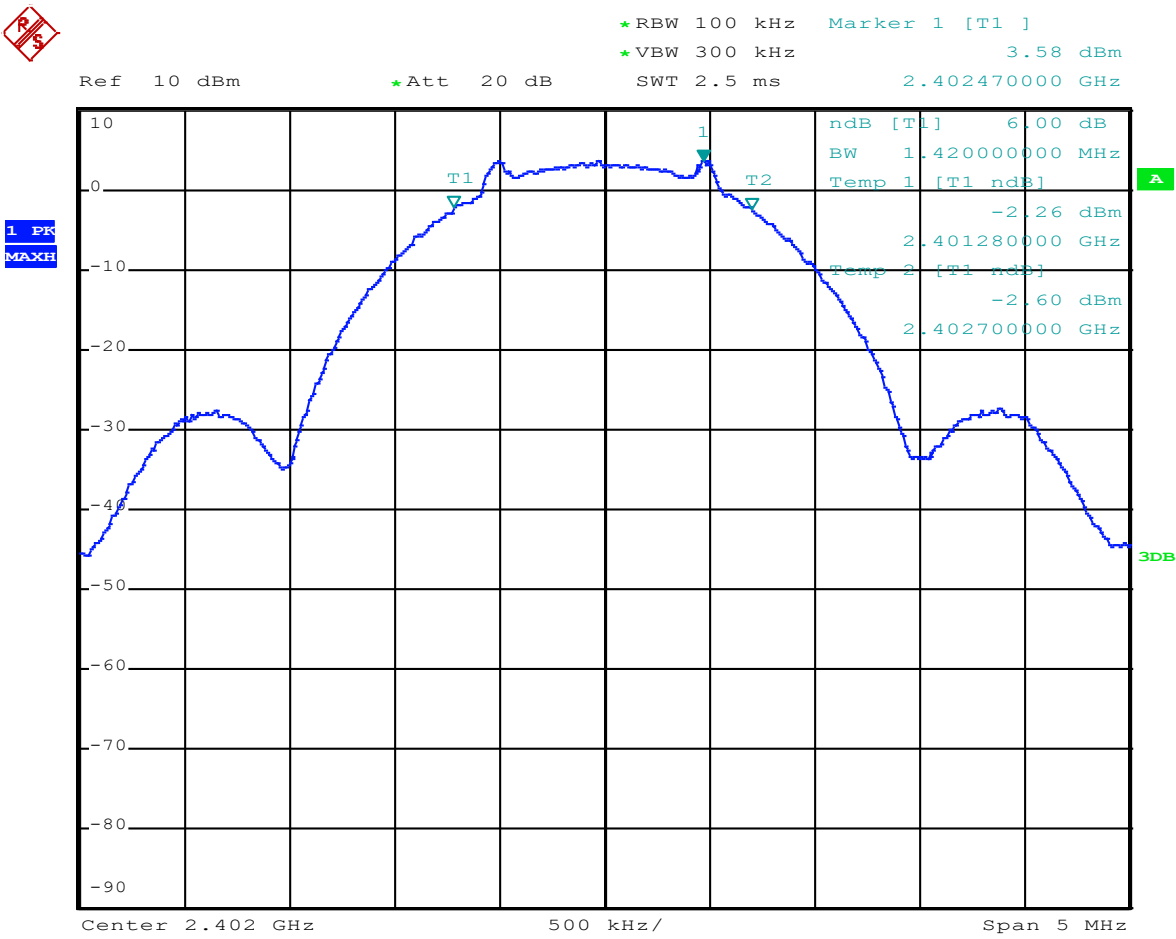
EUT	DigiFind		Model	SNT-FM24	
Mode	Keep Transmitting		Input Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail	
Low	2402	1420	500	Pass	
Middle	2440	1330	500	Pass	
High	2480	1380	500	Pass	

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Test Figure:

1. Condition: Low Channel

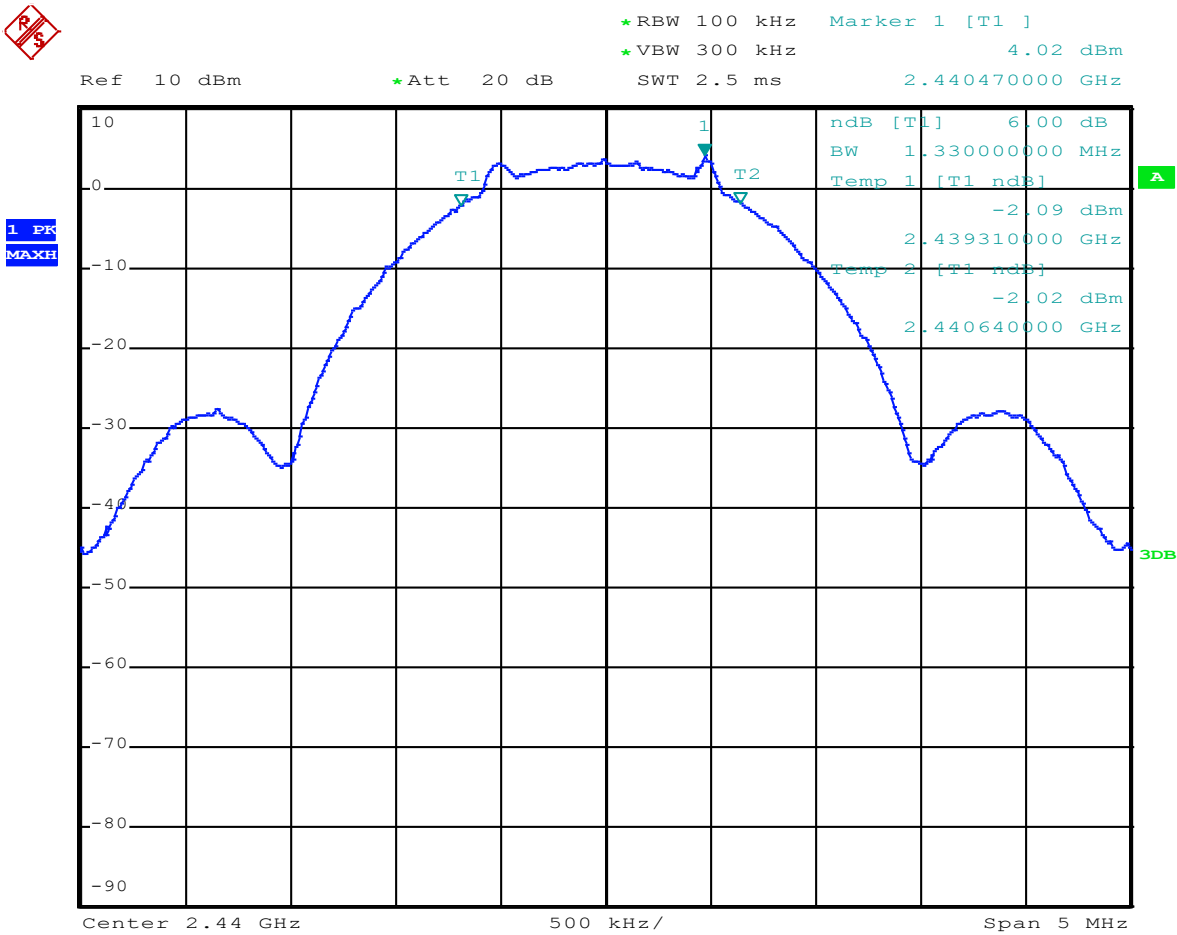


Date: 25.JUL.2025 15:29:42

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2. Condition: Middle Channel

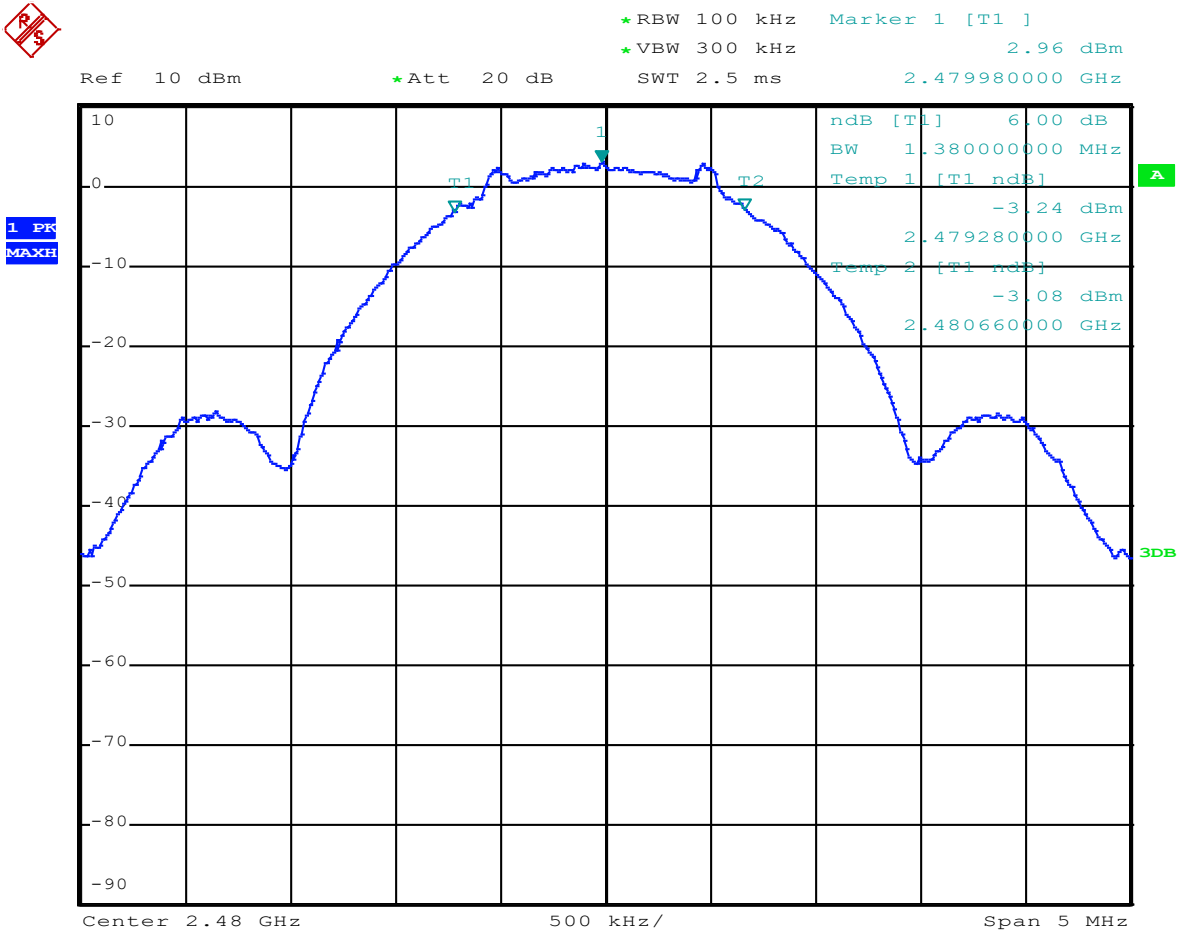


Date: 25.JUL.2025 15:39:18

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3. High Channel



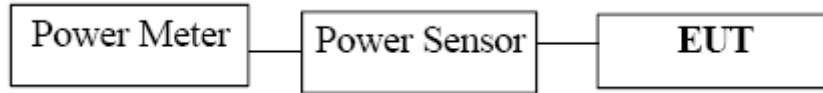
Date: 25.JUL.2025 15:40:57

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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the Peak power were measured.

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8.4 Test Results

LE-1M

EUT		DigiFind		Model		SNT-FM24	
Mode		Keep Transmitting		Input Voltage		DC3.7V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)			Peak Power Limit (dBm)	Pass/ Fail	
		Peak					
Low	2402	3.80			30	Pass	
Middle	2440	3.52			30	Pass	
High	2480	2.64			30	Pass	

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

LE-2M

EUT		DigiFind		Model	SNT-FM24	
Mode		Keep Transmitting		Input Voltage	DC3.7V	
Temperature		24 deg. C,		Humidity	56% RH	
Channel	Channel Frequency (MHz)	Max. Power Output (dBm)		Peak Power Limit (dBm)	Pass/ Fail	
		Peak				
Low	2402	3.90		30	Pass	
Middle	2440	4.17		30	Pass	
High	2480	3.66		30	Pass	

Note: 1. the result basic equation calculation as follow:

$$\text{Max. Power Output} = \text{Power Reading} + \text{Cable loss} + \text{Attenuator}$$

The report refers only to the sample tested and does not apply to the bulk.

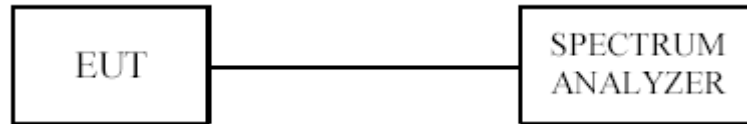
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW \geq 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be \leq 8 dBm/3kHz.

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9.4 Test Result

LE-1M

EUT	DigiFind			Model	SNT-FM24
Mode	Keep Transmitting			Input Voltage	DC3.7V
Temperature	24 deg. C,			Humidity	56% RH
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail
Low	-5.88	0.2	-5.68	8	Pass
Middle	-6.24	0.2	-6.04	8	Pass
High	-7.13	0.2	-6.93	8	Pass

Note: The result basic equation calculation as follow:

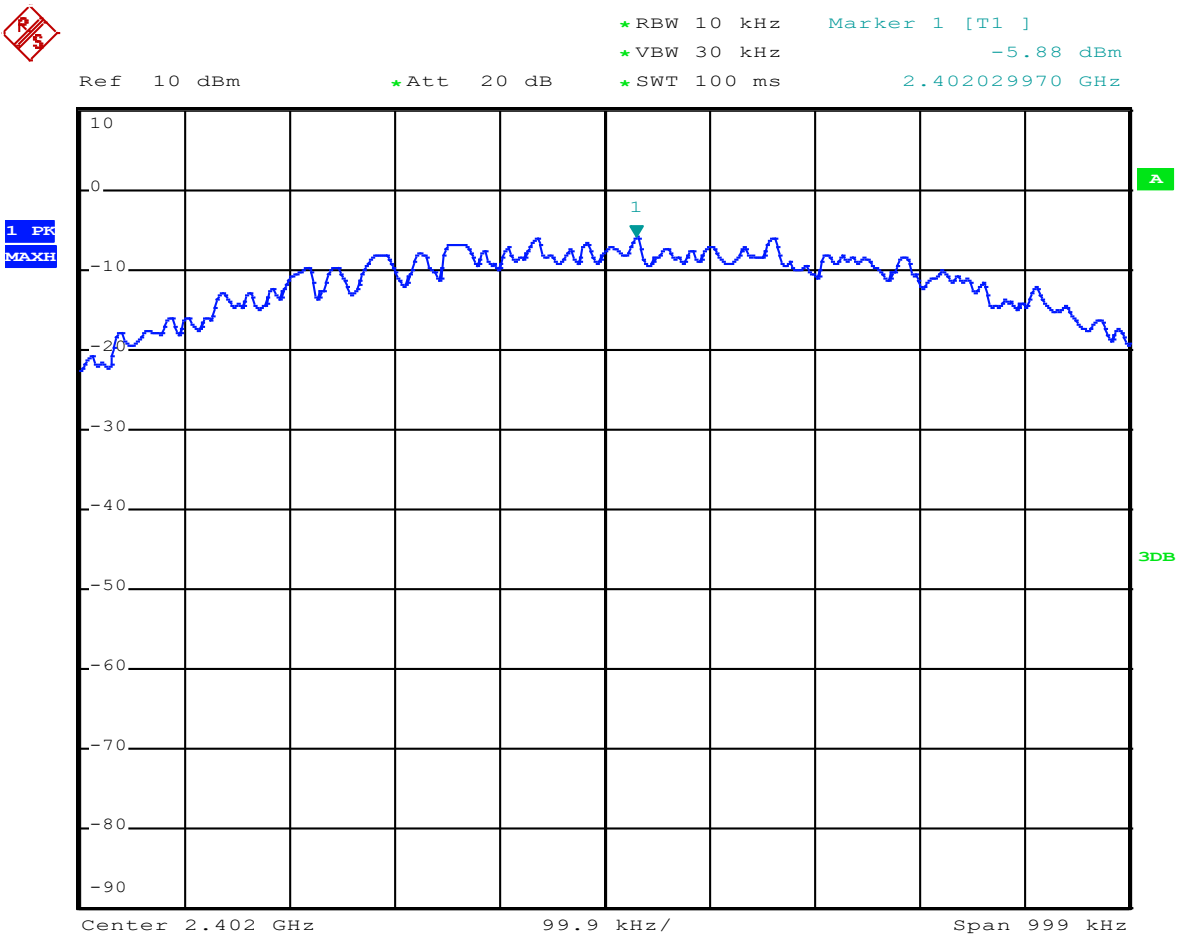
$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$

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Test Figure:

1. Condition: Low Channel

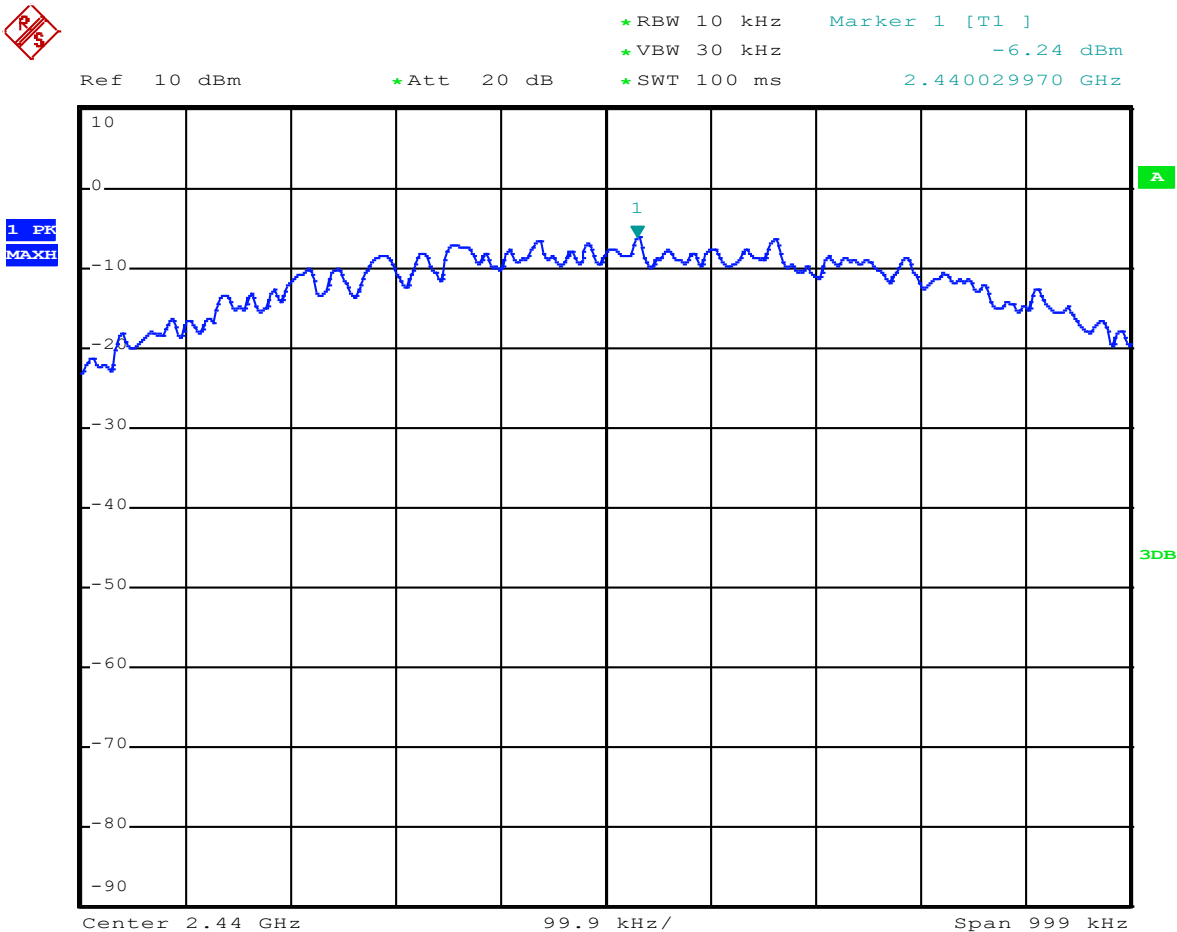


Date: 24.JUL.2025 11:20:52

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2. Condition: Middle Channel

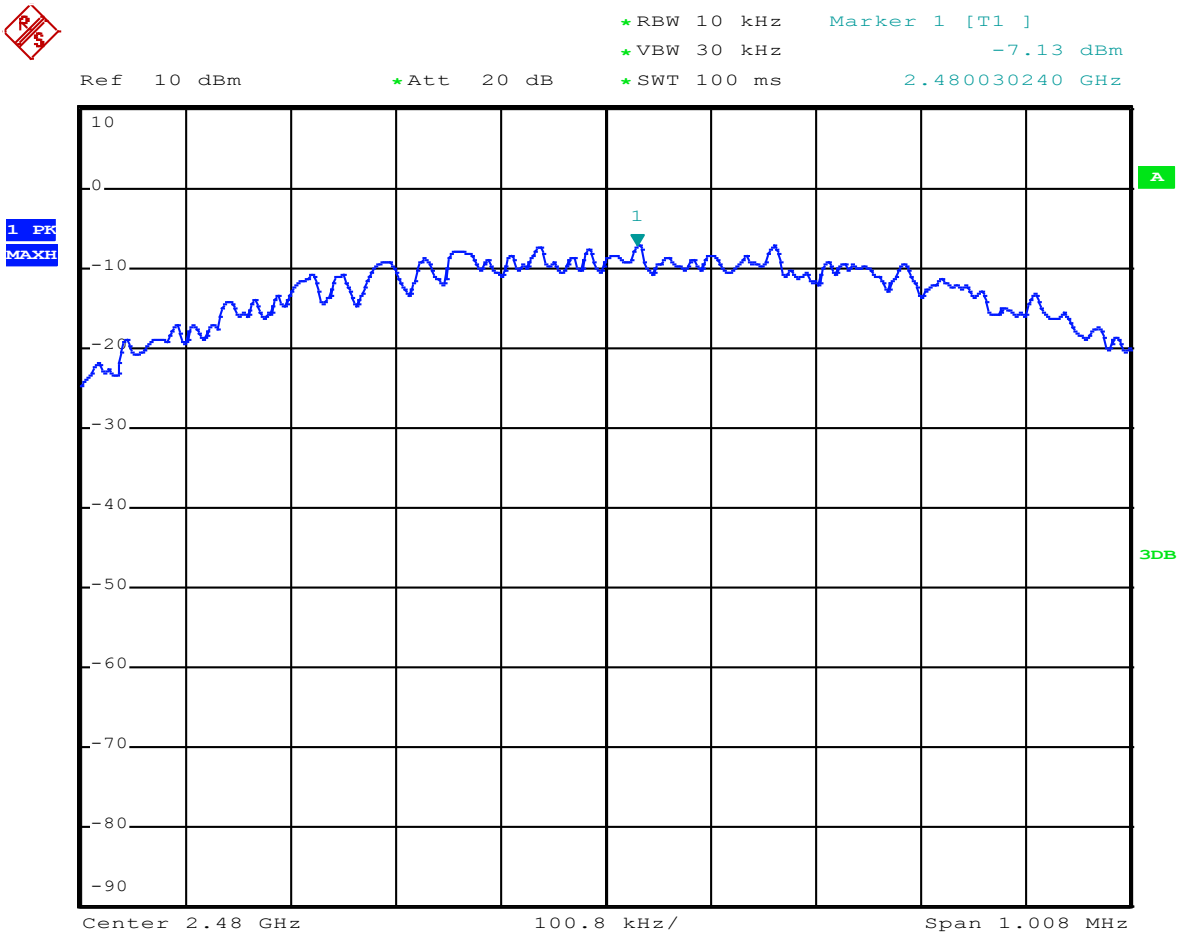


Date: 24.JUL.2025 11:21:34

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3. High Channel



Date: 24.JUL.2025 11:22:21

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LE-2M

EUT		DigiFind		Model		SNT-FM24
Mode		Keep Transmitting		Input Voltage		DC3.7V
Temperature		24 deg. C,		Humidity		56% RH
Channel	Peak Power Reading (dBm)	Cable Loss (dB)	Final Power Spectral Density (dBm/10kHz)	Maximum Limit (dBm/3kHz)	Pass/ Fail	
Low		-2.78	0.2	-2.58	8	Pass
Middle		-3.50	0.2	-3.30	8	Pass
High		-3.33	0.2	-3.13	8	Pass

Note: The result basic equation calculation as follow:

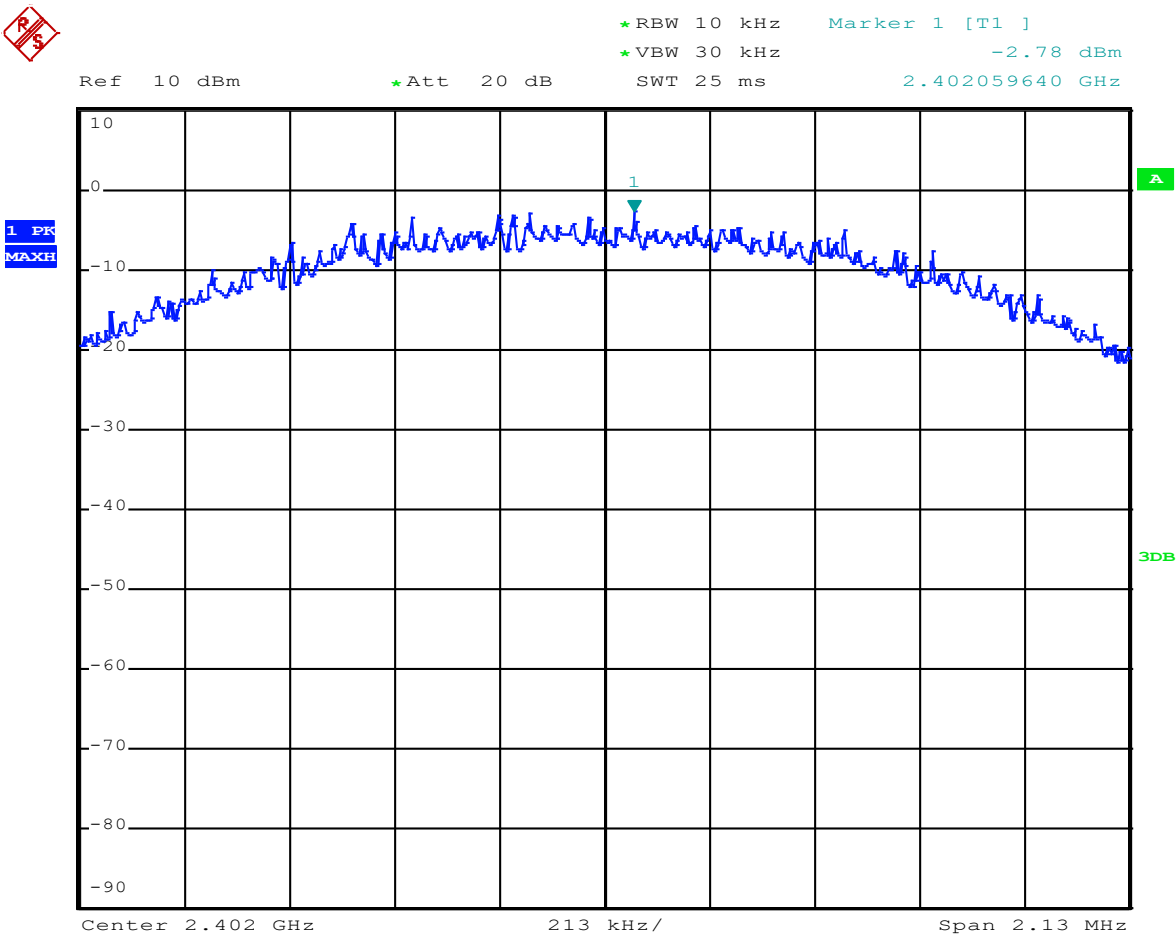
$$\text{Peak Power Output} = \text{Peak Power Reading} + \text{Cable loss}$$

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Test Figure:

1. Condition: Low Channel

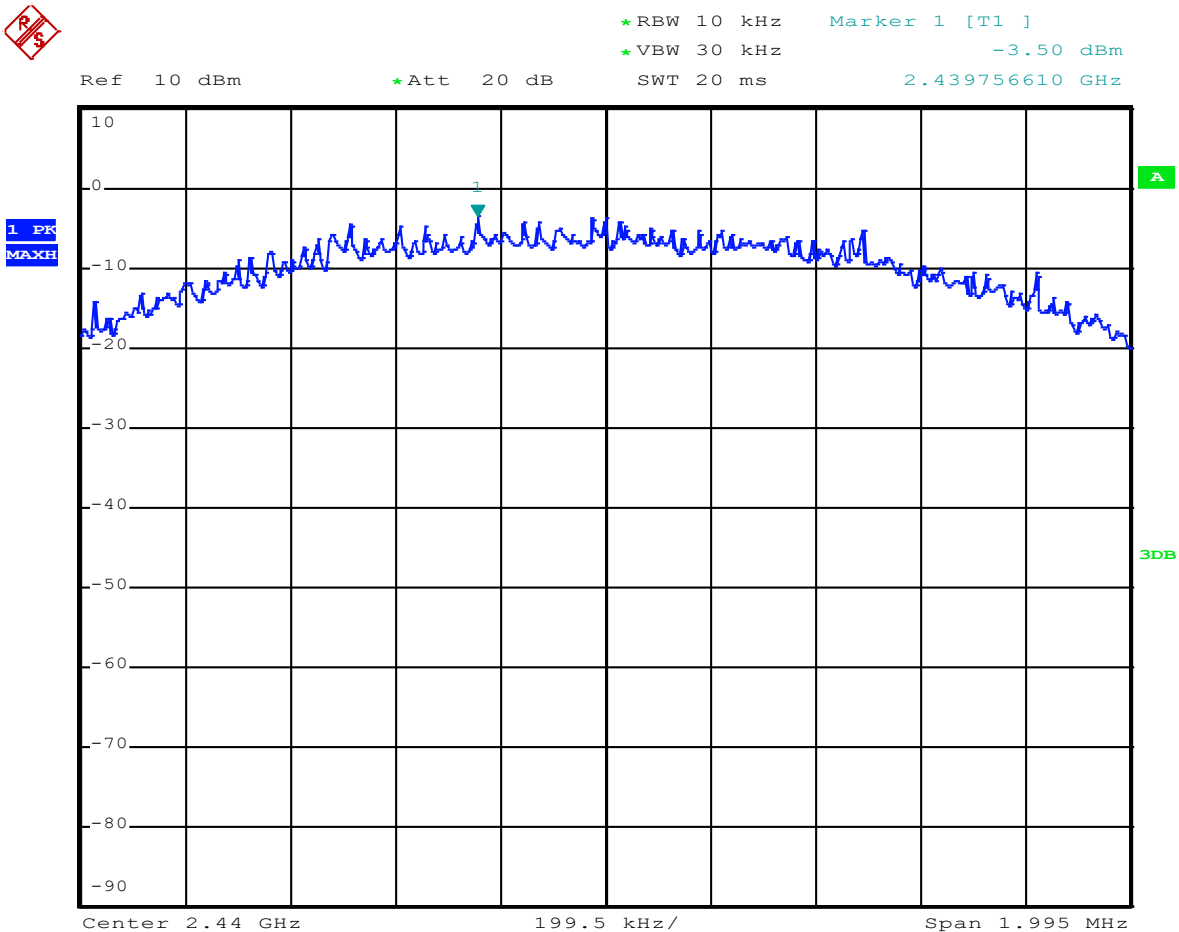


Date: 25.JUL.2025 15:45:25

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2. Condition: Middle Channel

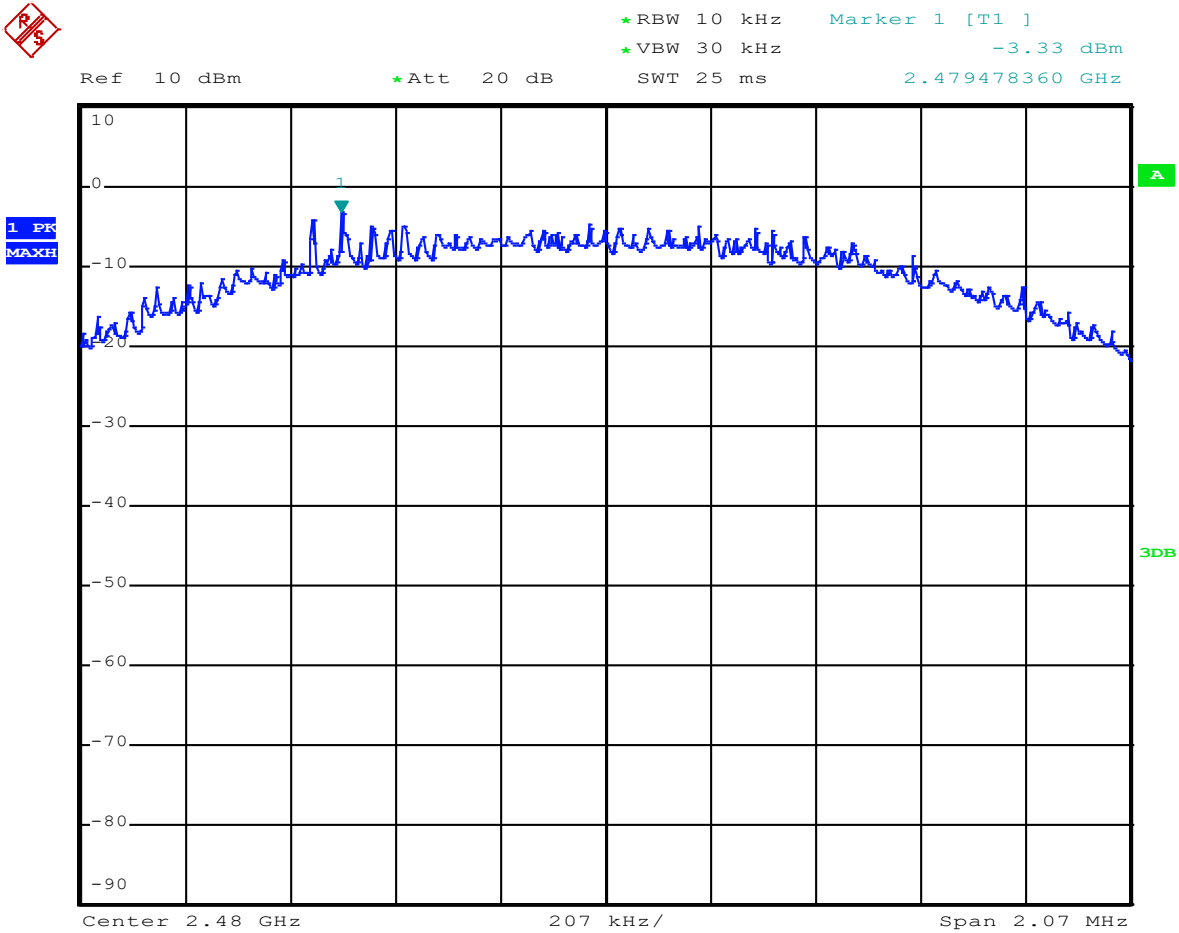


Date: 25.JUL.2025 15:46:28

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3. High Channel



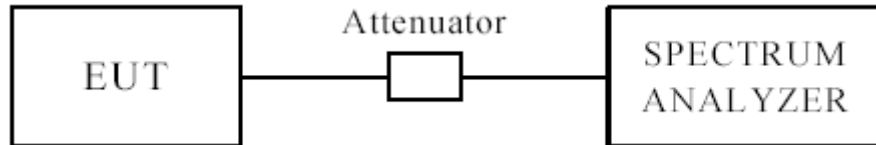
Date: 25.JUL.2025 15:47:13

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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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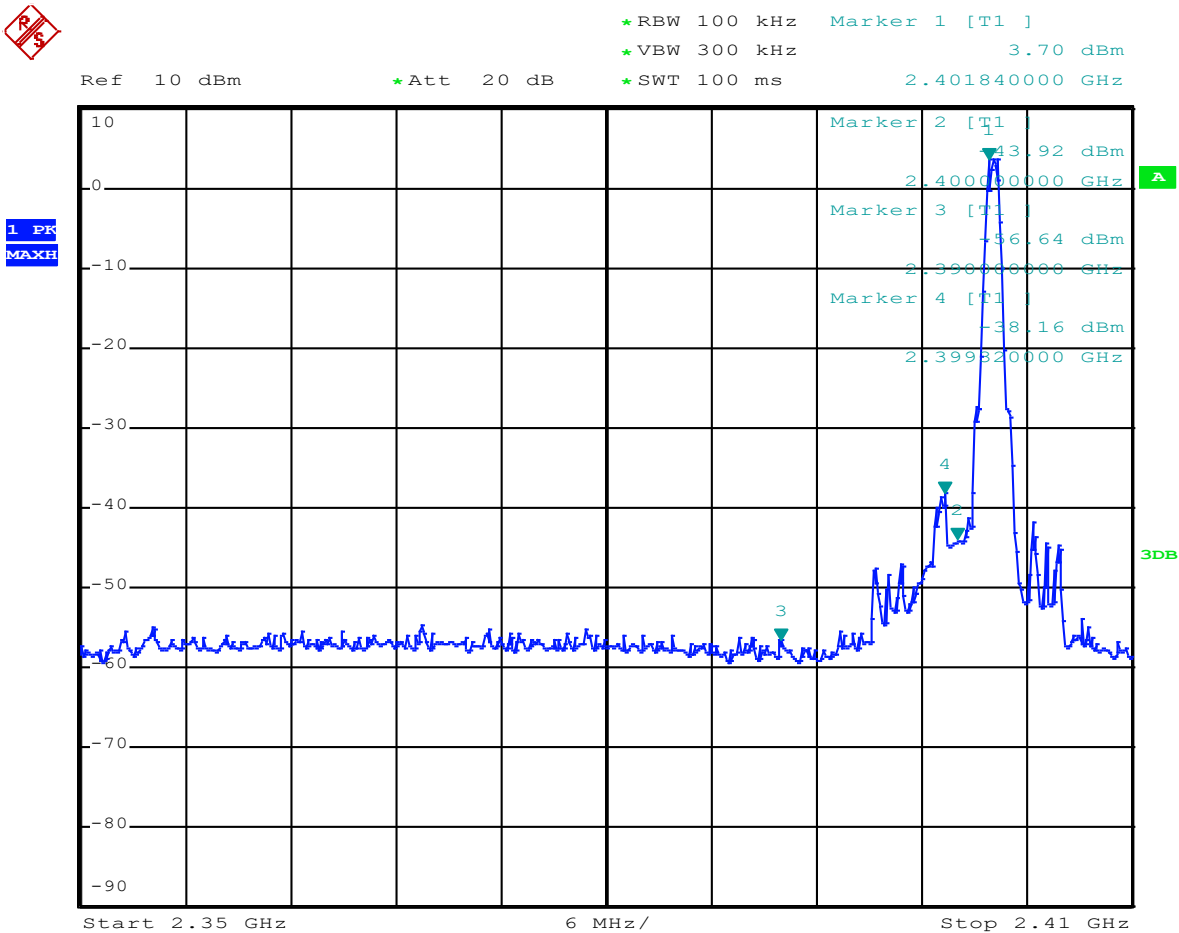


LE-1M

10.4 Band-edge Measurement

EUT	DigiFind	Model	SNT-FM24
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 24.JUL.2025 11:25:19

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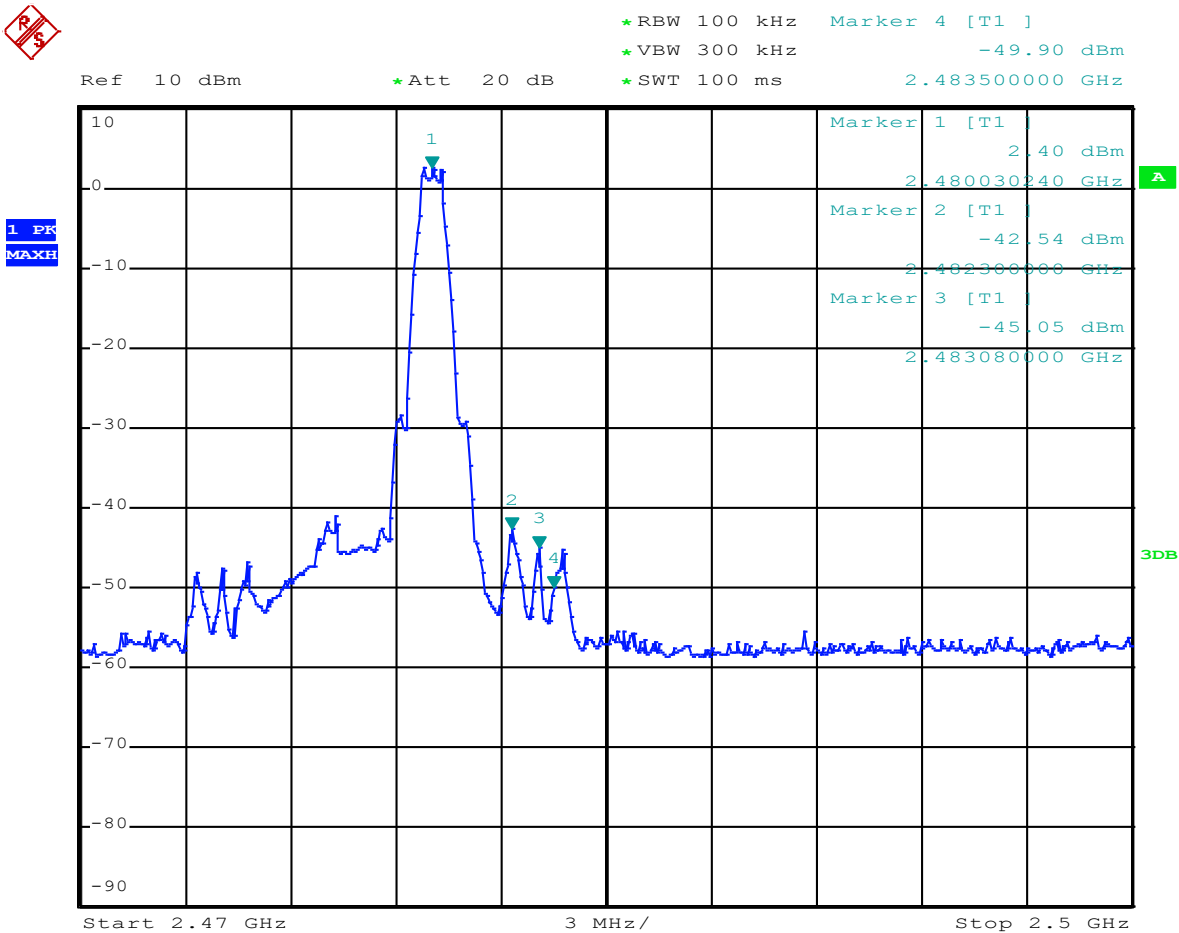


LE-1M

10.4 Band-edge Measurement

EUT	DigiFind	Model	SNT-FM24
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 24.JUL.2025 11:23:38

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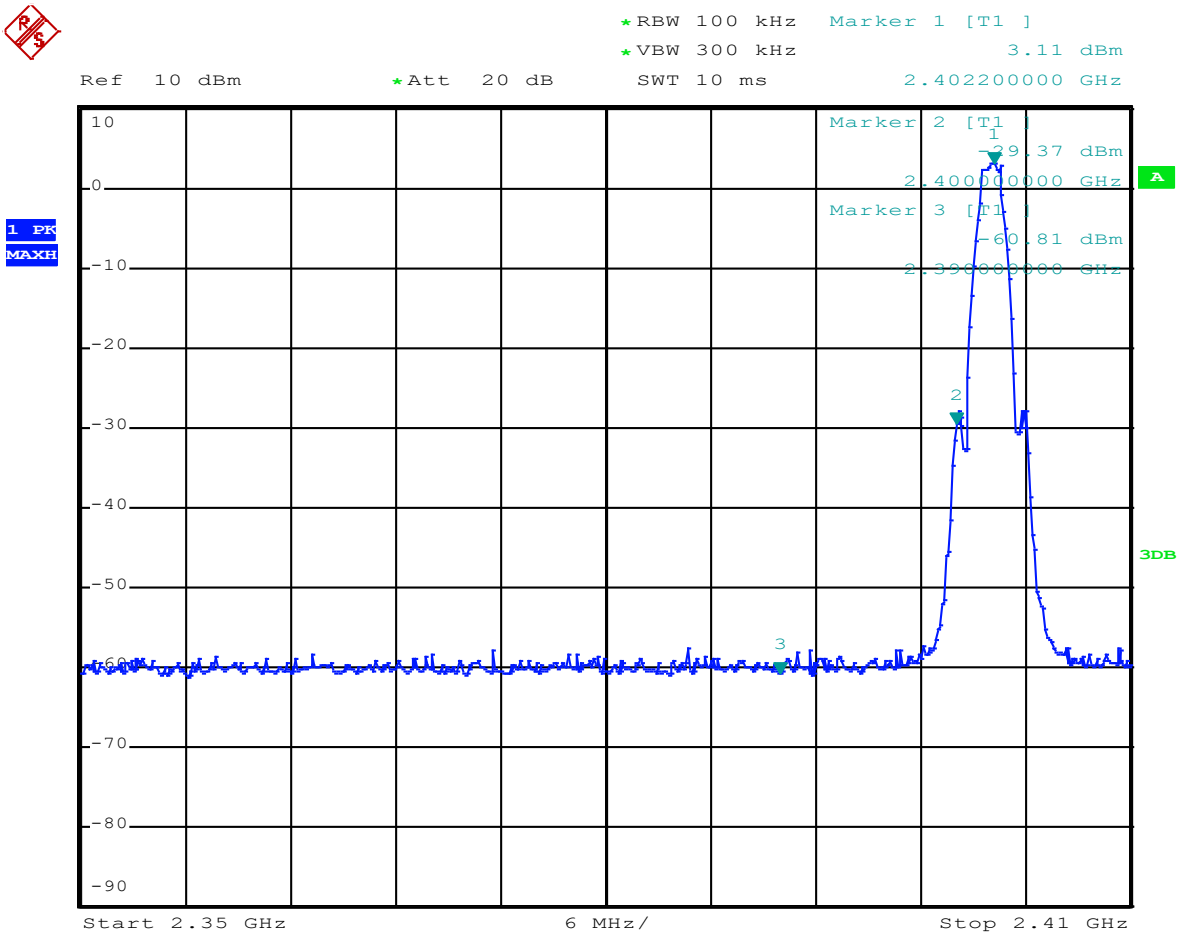


LE-2M

10.4 Band-edge Measurement Mode: 2M

EUT	DigiFind	Model	SNT-FM24
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 25.JUL.2025 15:52:56

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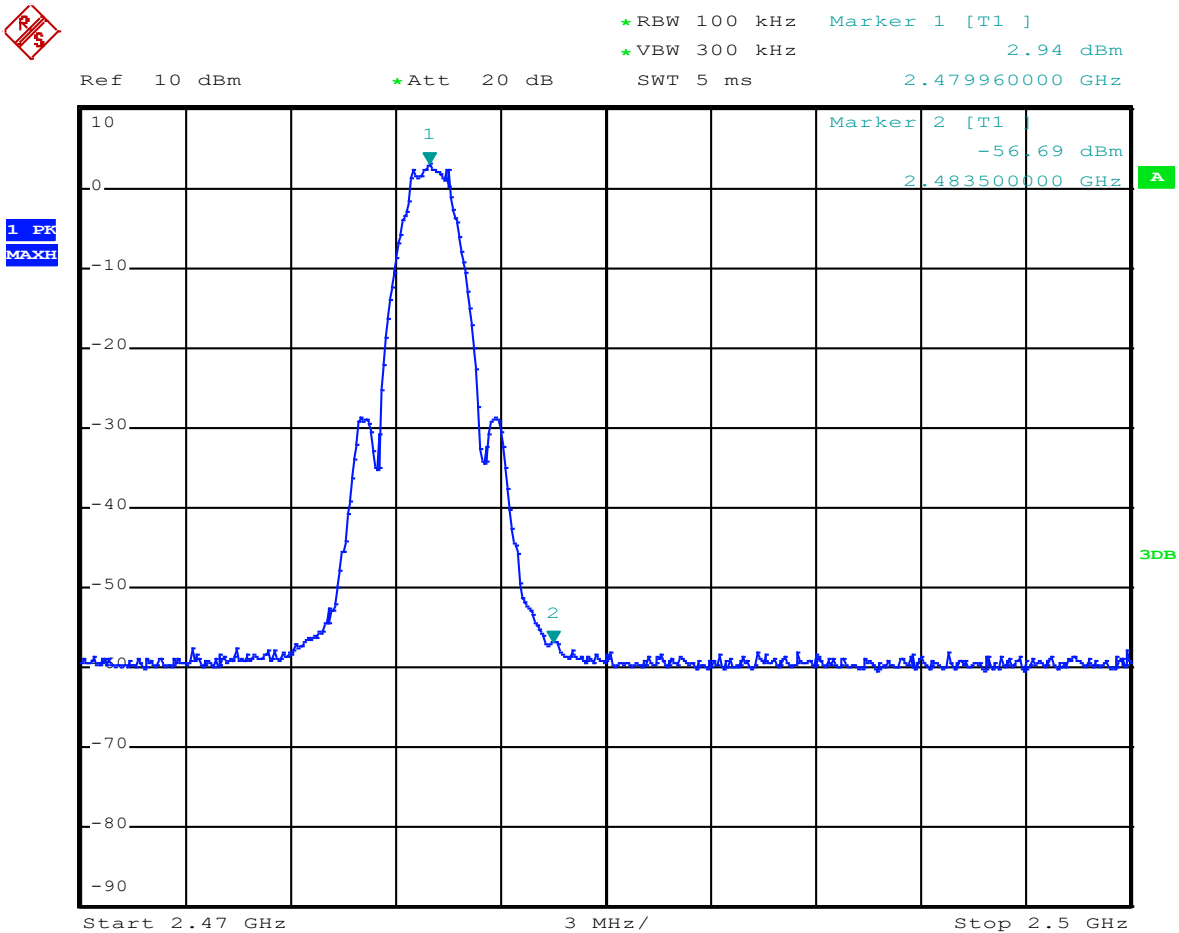


LE-2M

10.4 Band-edge Measurement Mode: 2M

EUT	DigiFind	Model	SNT-FM24
Mode	Keeping Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



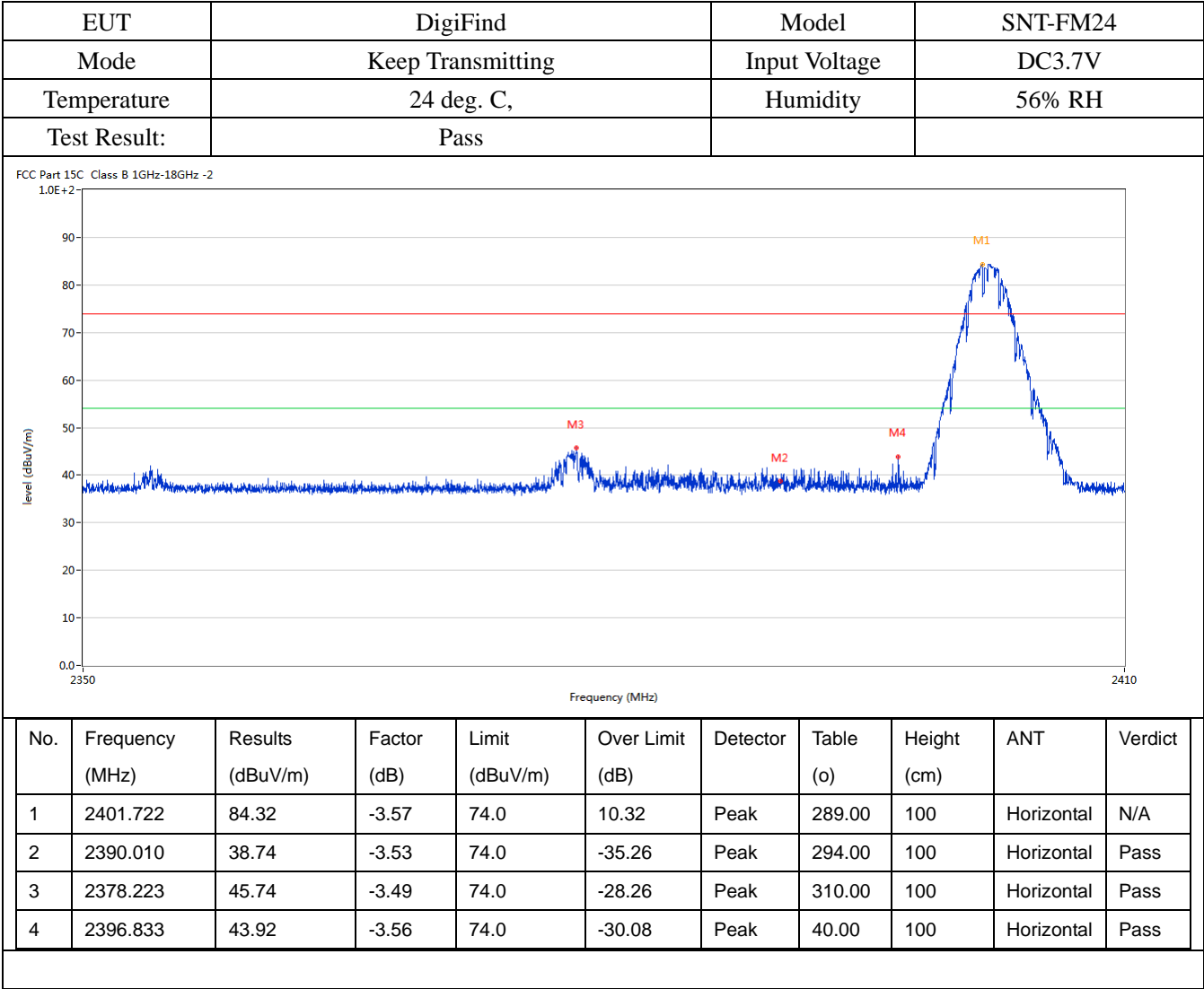
Date: 25.JUL.2025 15:52:09

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LE-1M

10.4 Restrict Band Measurement



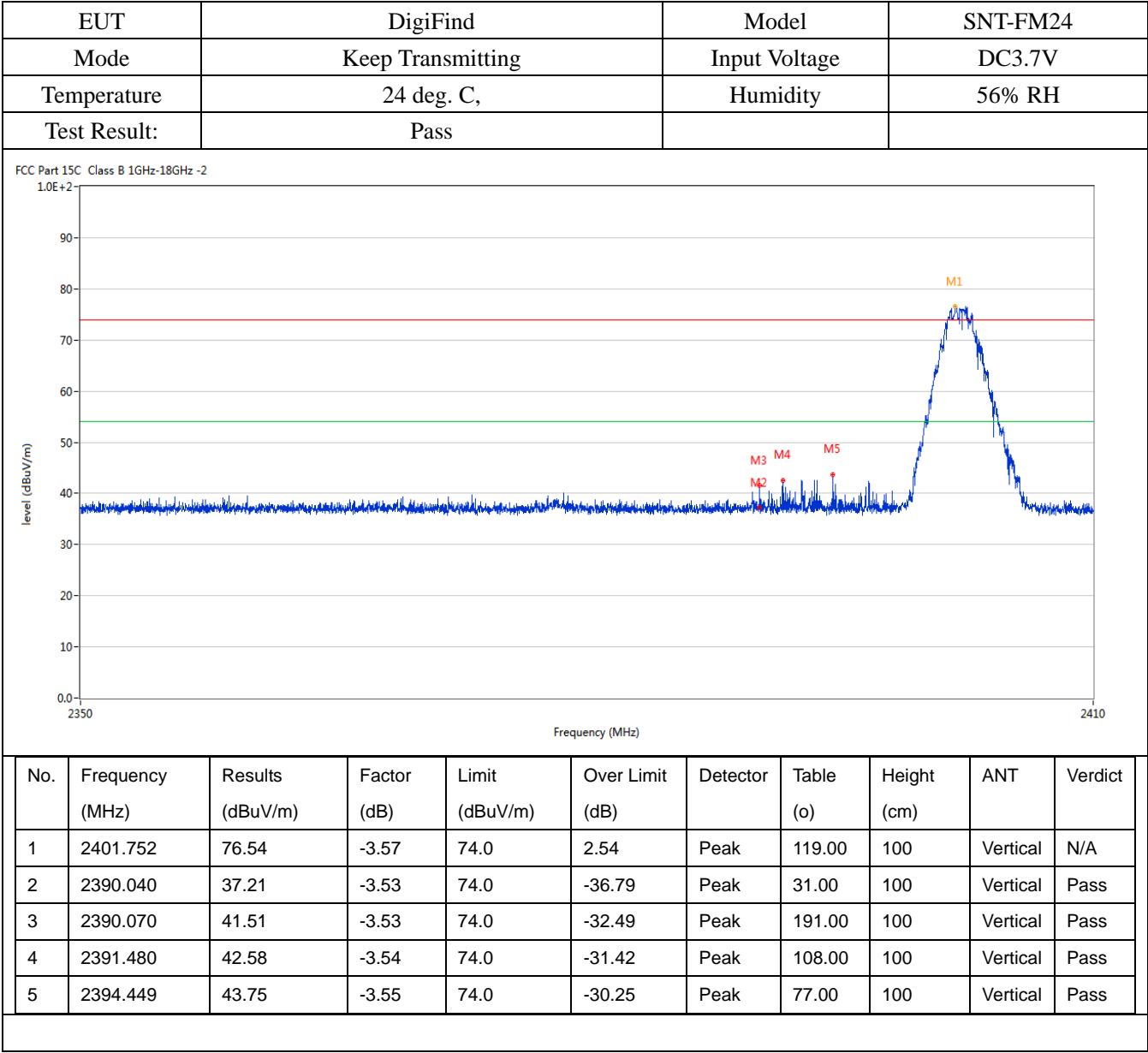
Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

The report refers only to the sample tested and does not apply to the bulk.
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LE-1M

10.4 Restrict Band Measurement



Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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LE-1M

10.4 Restrict Band Measurement

EUT	DigiFind		Model	SNT-FM24	
Mode	Keep Transmitting		Input Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass				

FCC Part 15C Class B 1GHz-18GHz -2

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.883	85.48	-3.57	74.0	11.48	Peak	240.00	100	Horizontal	N/A
2	2483.500	51.10	-3.57	74.0	-22.90	Peak	248.43	100	Horizontal	Pass

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LE-1M

10.4 Restrict Band Measurement

EUT	DigiFind			Model	SNT-FM24		
Mode	Keep Transmitting			Input Voltage	DC3.7V		
Temperature	24 deg. C,			Humidity	56% RH		
Test Result:	Pass						

FCC Part 15C Class B 1GHz-18GHz -2

1.0E+2

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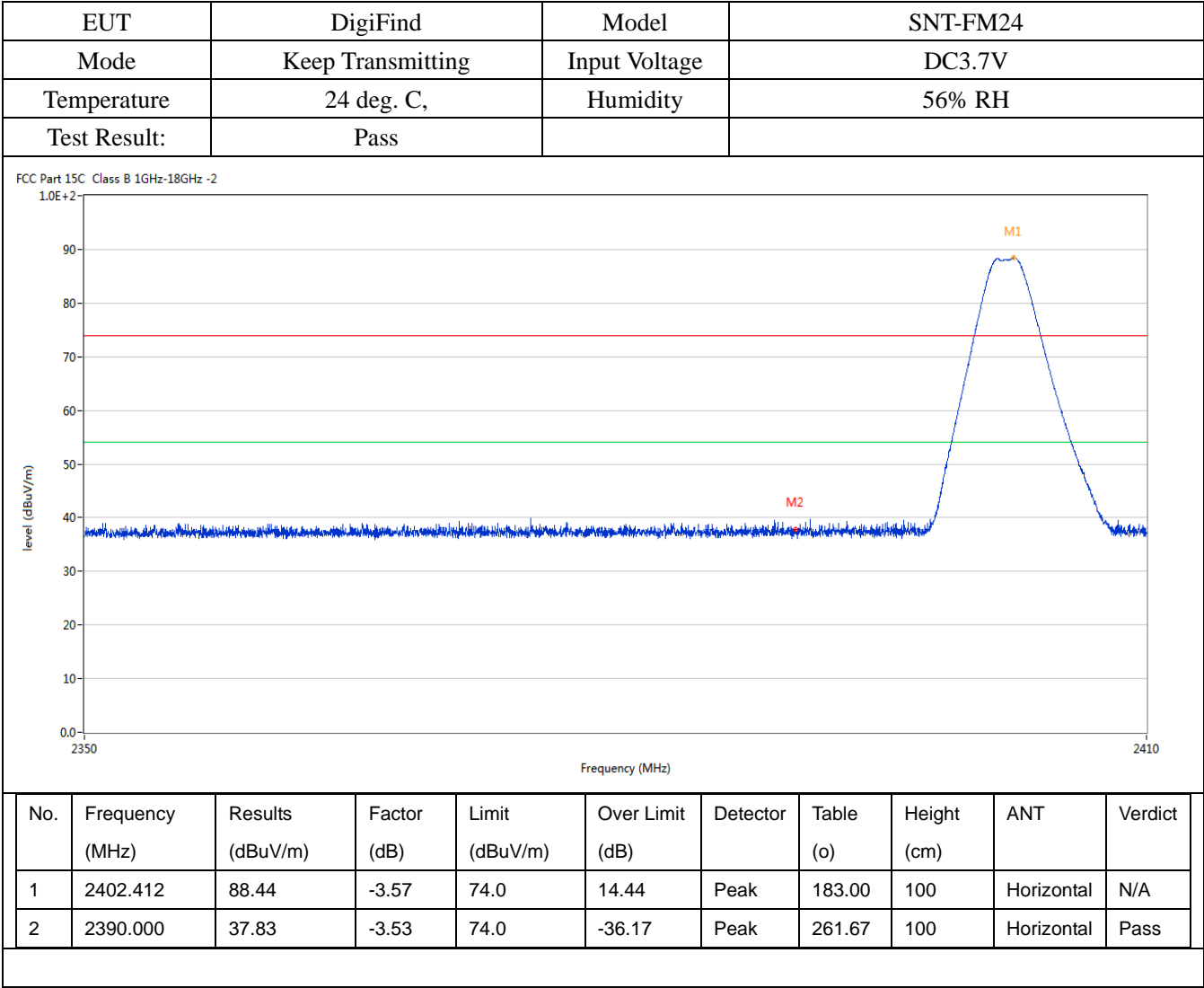
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LE-2M

10.4 Restrict Band Measurement



Note: The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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LE-2M

10.4 Restrict Band Measurement

EUT	DigiFind	Model	SNT-FM24							
Mode	Keep Transmitting	Input Voltage	DC3.7V							
Temperature	24 deg. C,	Humidity	56% RH							
Test Result:	Pass									
FCC Part 15C Class B 1GHz-18GHz -2										
<p>The spectrum plot displays the radio frequency emissions of the device. The x-axis represents Frequency in MHz, ranging from 2350 to 2410. The y-axis represents the signal level in dBuV/m, ranging from 0.0 to 1.0E+2. A blue line shows the measured signal, which is mostly flat at a noise floor level of approximately 37 dBuV/m, with a significant peak at 2402.487 MHz reaching 83.52 dBuV/m. Two horizontal reference lines are present: a red line at approximately 74 dBuV/m and a green line at approximately 55 dBuV/m. The peak is labeled 'M1' and a point on the noise floor is labeled 'M2'.</p>										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2402.487	83.52	-3.57	74.0	9.52	Peak	305.00	100	Vertical	N/A
2	2390.040	37.09	-3.53	74.0	-36.91	Peak	98.00	100	Vertical	Pass

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LE-2M

10.4 Restrict Band Measurement

EUT	DigiFind	Model	SNT-FM24
Mode	Keep Transmitting	Input Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass		

FCC Part 15C Class B 1GHz-18GHz -2

The spectrum plot displays the signal level in dBuV/m across a frequency range from 2470 MHz to 2500 MHz. A prominent peak is observed at 2483.5 MHz, reaching a level of approximately 88 dBuV/m. A horizontal red line indicates the limit at 74.0 dBuV/m, and a horizontal green line indicates the measurement point at 54.0 dBuV/m. The signal level is relatively flat at approximately 38 dBuV/m outside the peak region.

Frequency (MHz)	Level (dBuV/m)
2470	38
2479.448	88.15
2483.5	56.12
2483.5	45.98
2500	38

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.448	88.15	-3.57	74.0	14.15	Peak	189.00	100	Horizontal	N/A
2	2483.500	56.12	-3.57	74.0	-17.88	Peak	189.00	100	Horizontal	Pass
2**	2483.500	45.98	-3.57	54.0	-8.02	AV	189.00	100	Horizontal	Pass

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LE-2M

10.4 Restrict Band Measurement

EUT	DigiFind		Model	SNT-FM24	
Mode	Keep Transmitting		Input Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass				

FCC Part 15C Class B 1GHz-18GHz -2

level (dBuV/m)

Frequency (MHz)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2479.478	82.63	-3.57	74.0	8.63	Peak	65.00	100	Vertical	N/A
2	2483.500	50.35	-3.57	74.0	-23.65	Peak	62.86	100	Vertical	Pass

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

PCB antenna used. The gain of the antennas is 2.97dBi (Get from the antenna test report)

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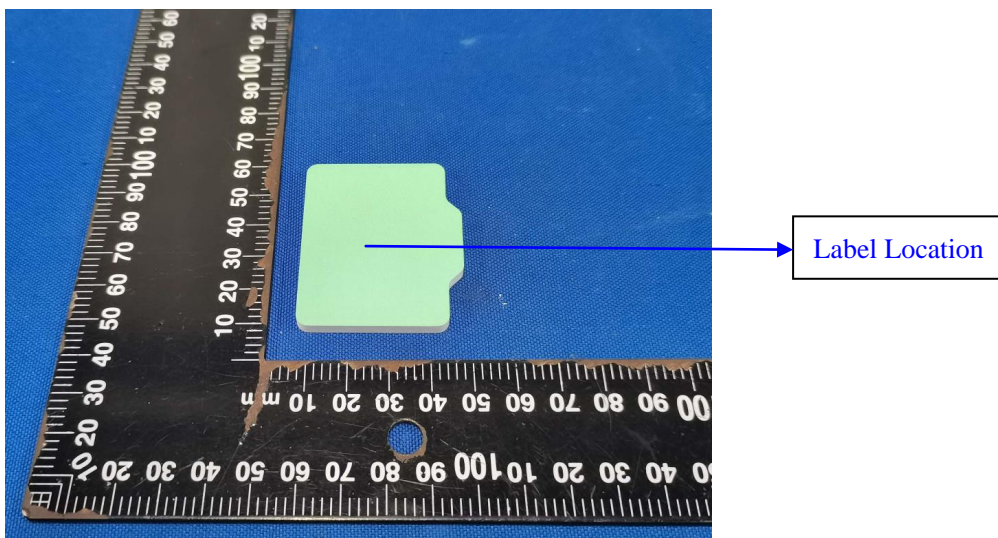


12.0 FCC ID Label

FCC ID: 2BQUI-SNTFM24

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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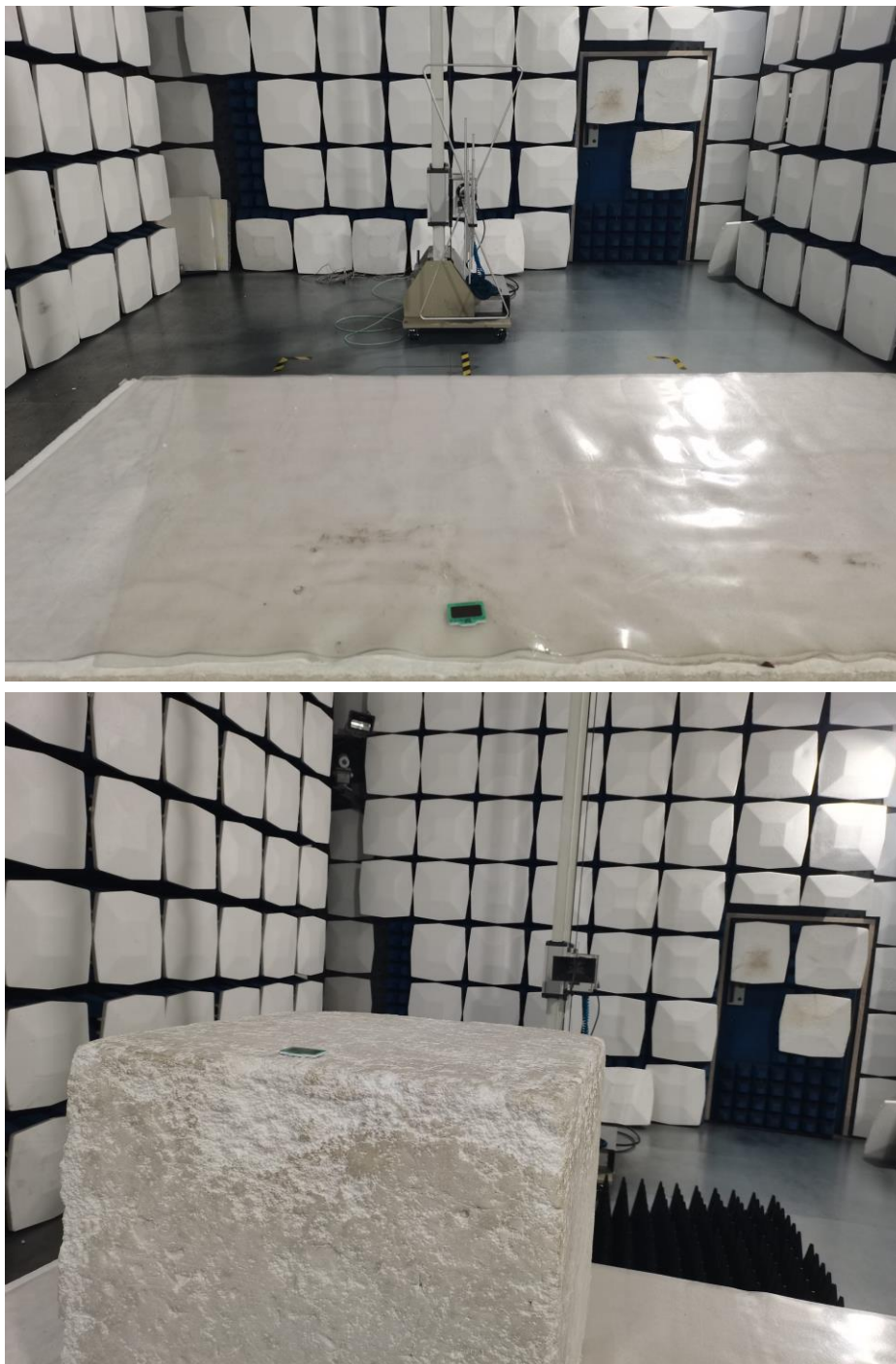
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13.0 Photo of testing

Conducted Emission Test Setup: N/A

Radiated Emission Test Setup:



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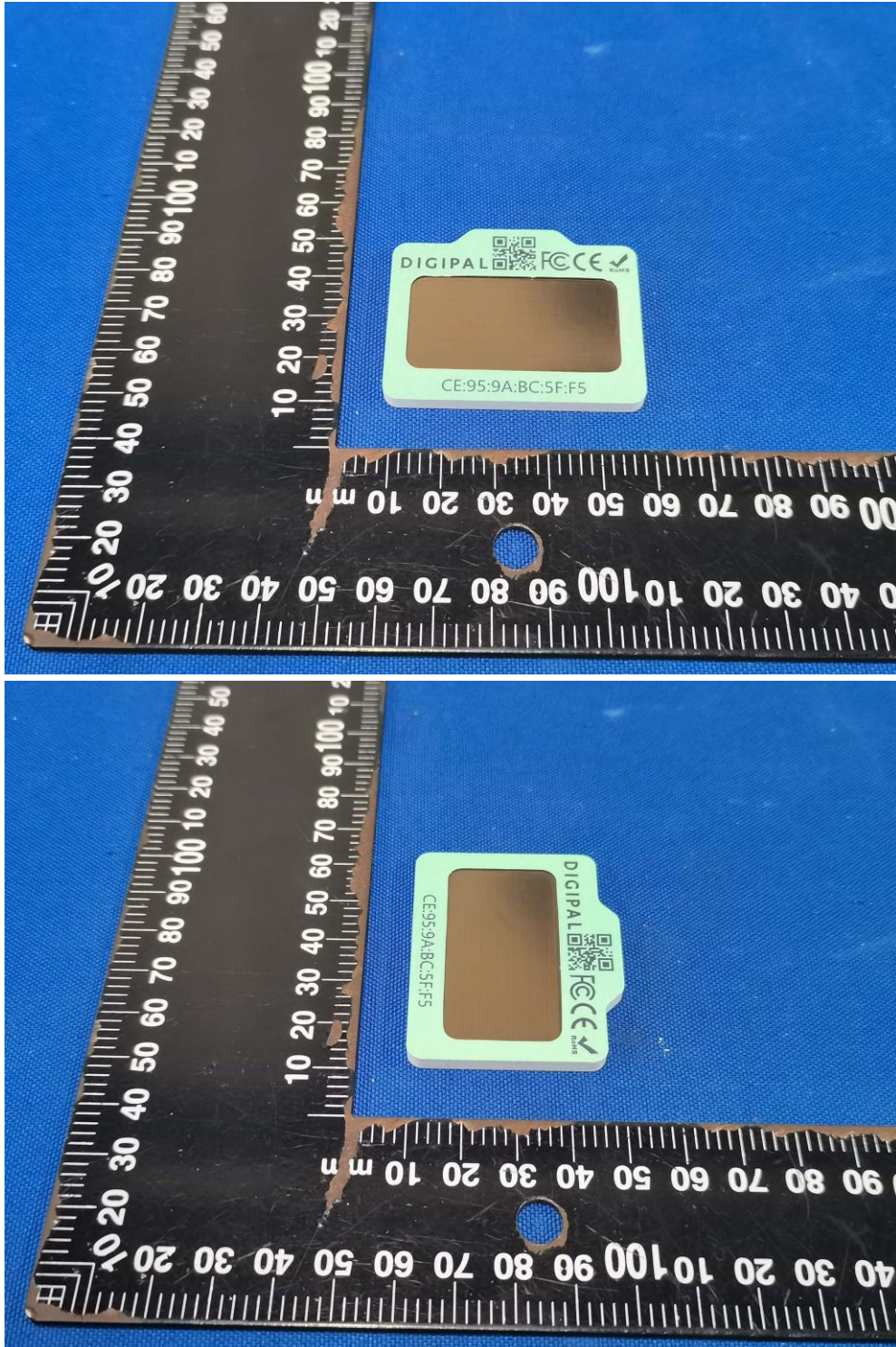
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Photographs – EUT

Outside View



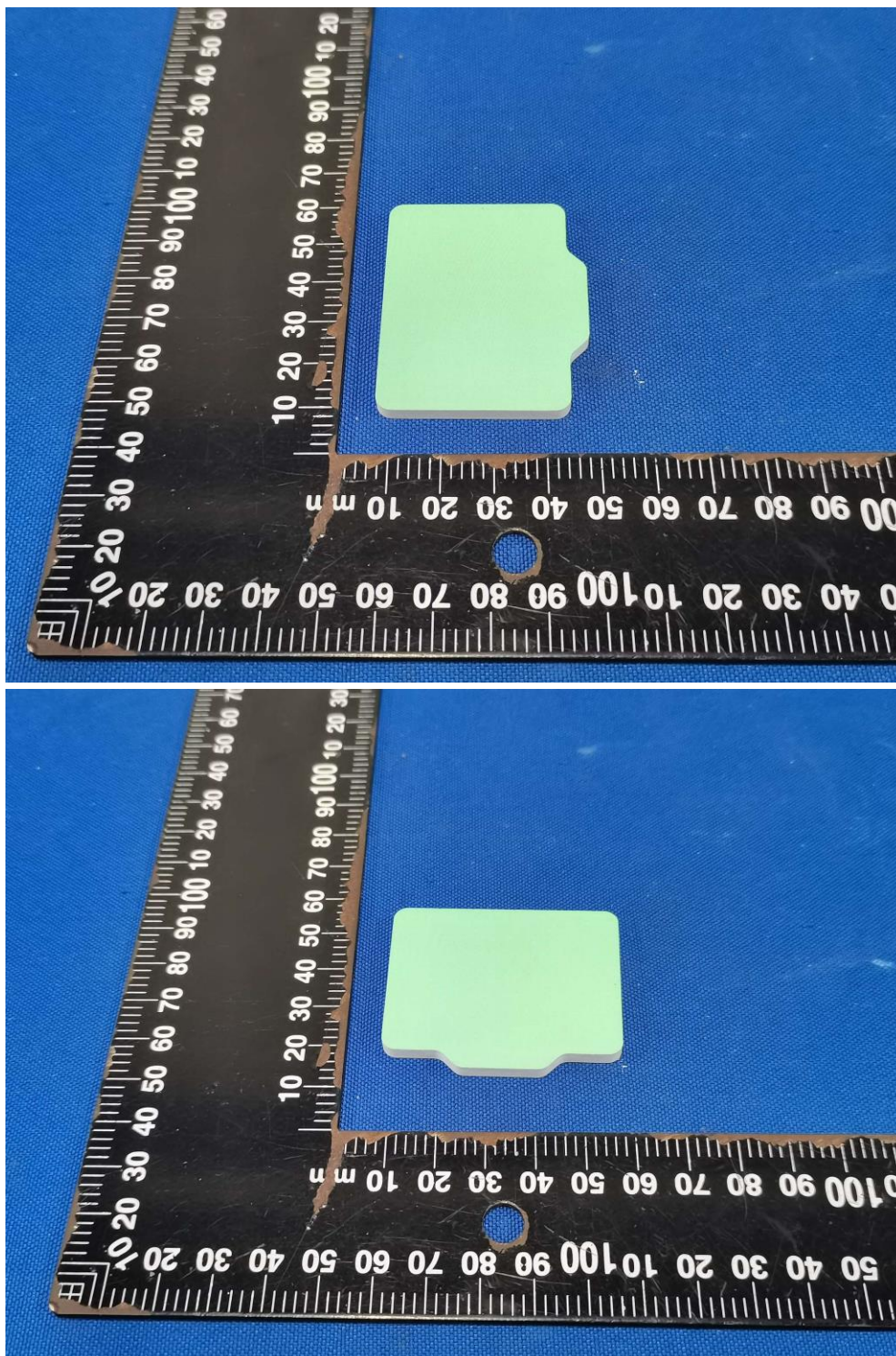
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Outside View



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Inside View



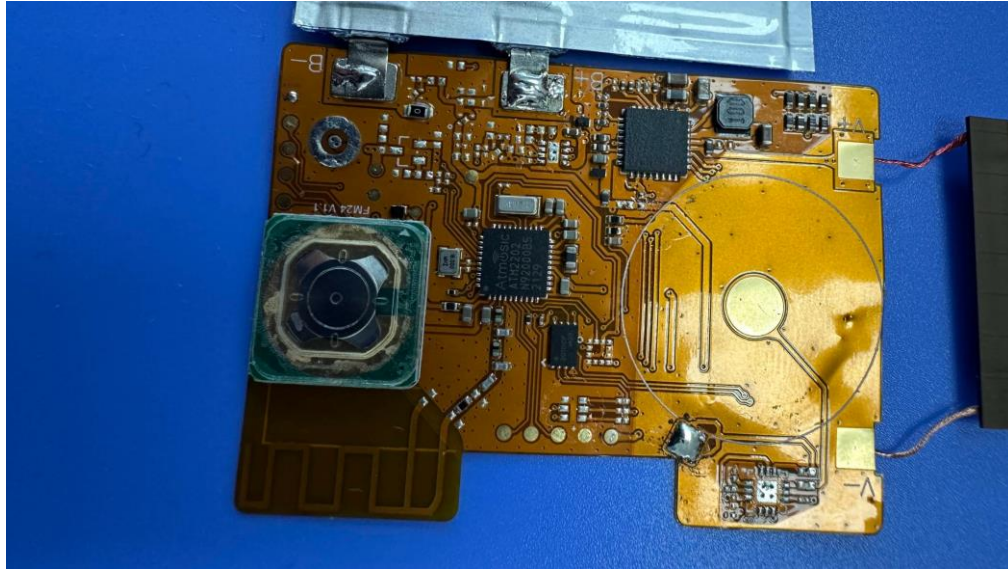
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Inside View



End of the report

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