



FCC TEST REPORT

FCC ID: 2AR8R-M6

Product	:	Thermal Printer
Model Name	:	M6,Pokemon,M66,M19,M5,M20
Brand	:	N/A
Report No.	:	PTC26010517401E-FC02
Prepared for		
Meihengtong Intelligent Electronics(Guangzhou) Co., Ltd.		
2nd Floor,Factory#A,No.140,Taipingyang ind, Zone,Xintang Town,Zengcheng,Guangzhou,Guangdong,CN(China)		
Prepared by		
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Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



1 TEST RESULT CERTIFICATION

Applicant's name : Meihengtong Intelligent Electronics(Guangzhou) Co., Ltd.
Address : 2nd Floor,Factory#A,No.140,Taipingyang ind, Zone,Xintang
Town,Zengcheng,Guangzhou,Guangdong,CN(China)
Manufacture's name : Meihengtong Intelligent Electronics(Guangzhou) Co., Ltd.
Address : 2nd Floor,Factory#A,No.140,Taipingyang ind, Zone,Xintang
Town,Zengcheng,Guangzhou,Guangdong,CN(China)
Product name : Thermal Printer
Model name : M6,Pokemon,M66,M19,M5,M20
Standards : FCC CFR47 Part 15 Section 15.247
Test procedure : ANSI C63.10-2020
Test Date : Jan. 9, 2026 to Feb. 2, 2026
Date of Issue : Feb. 2, 2026
Test Result : Pass

This device described above has been tested by PTC, 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.

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	15.207	PASS
Radiated Spurious Emissions	15.205(a) 15.209 15.247(d)	PASS
Conducted Spurious Emission	15.247(d)	PASS
Band edge	15.247(d) 15.205(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3)	PASS
Power Spectral Density	15.247(e)	PASS
Antenna Requirement	15.203	PASS



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2.1 Test Site

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Thermal Printer
Model Name	:	M6
Additional model	:	Pokemon,M66,M19,M5,M20
Bluetooth Version	:	5.2
Operating frequency	:	2402-2480MHz
Number of Channels	:	40 channels For DTS
Type of Modulation	:	GFSK, For DTS
Antenna installation	:	PCB Antenna
Antenna Gain	:	1.7 dBi
Power supply	:	Input: DC 5V=2A Li-ion Battery: 18650 Rated Voltage: 7.4V Capacity: 1500mAh
Hardware Version	:	N/A
Software Version	:	N/A
Test sample No.	:	PTC26010517401E-1/2, PTC26010517401E-2/2.



3.2 Channel List

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting. Only the worst case data were reported.

The EUT has been associated with peripherals pursuant to ANSI C63.10-2020 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation (9 KHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

The details of test channels and bandwidth were for RF conductive measurement.

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	14	2430	28	2458
01	2404	15	2432	29	2460
02	2406	16	2434	30	2462
03	2408	17	2436	31	2464
04	2410	18	2438	32	2466
05	2412	19	2440	33	2468
06	2414	20	2442	34	2470
07	2416	21	2444	35	2472
08	2418	22	2446	36	2474
09	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454		
13	2428	27	2456		

Note:

1. Test of channel was included the lowest 2402MHz, middle 2440MHz and highest frequency 2480MHz in highest data rate and to perform the test, then record on this report.



4 Equipment During Test

4.1 Equipments List

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
MXG Signal Analyzer	Agilent	N9020A	SER MY5111038	10Hz-26.5GHz	Aug.14, 2025	1 Year
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug.14, 2025	1 Year
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug.14, 2025	1 Year
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug.14, 2025	1 Year
DC power Supply	Agilent	E3642A	MY52420017	0-8V,5A/0-20 ,2.5A	Aug.14, 2025	1 Year
Humidity Chamber	AISRY	ASR-HW2-1000	20230926003	-40℃-150℃	Feb.23 ,2025	1year
Test S/W	Tonscend	JS1120-3	/	/	/	/

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Radiated Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESPI7	101671	9KHz-7GHz	Aug.14, 2025	1 Year
Loop Antenna	Schwarzbeck	FMZB 1519	192	9 KHz -30MHz	Nov.28, 2024	1 Year
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Sep.10, 2025	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	9KHz-1GHz	Mar.21, 2025	1 Year
Cable	IMRO	AK-9515E(9m)	Cable-L	9KHz-3GHz	Aug.14, 2025	1 Year
Spectrum Analyzer	Rohde&Schwarz	FSV40	6625-01-588-5515	9KHz-40GHz	Aug.14, 2025	1 Year



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Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1246	1GHz-18GHz	Dec.12, 2024	1 Year
Power Amplifier	ZHINAN	ZN3380C	15002	1GHz-26.5GHz	Aug.14, 2025	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	9170-1066	15GHz-40GHz	Jul. 24, 2025	1 Year
Amplifier	SCHWARZBECK	BBV 9721	9721-205	18GHz-40GHz	Jul. 25, 2025	1 Year
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug.14, 2025	1 Year
RF Cable	R&S	R204	R21X	1GHz-40GHz	Aug.14, 2025	1 Year
Test S/W	Tonscend	TS+	/	/	/	/

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Date	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESCI3	101417	9KHz-3GHz	Aug.14, 2025	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	9KHz-300MHz	Oct.30, 2025	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	9KHz-300MHz	Oct.30, 2025	1 Year
Limiter	R&S	ESH3-Z2	0357.8810.54-102808-NB	0Hz-30MHz	Aug.14, 2025	1 Year
RF Switch	DIAMOND ANTENNA	CX-210	/	0.09MHz-6GHz	Mar. 21,2025	1 Year
Test S/W	Tonscend	JS32-CE	/	/	/	/



4.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(9kHz~30MHz)	$\pm 3.15\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~25GHz)	$\pm 4.74\text{dB}$
Note: 1. The coverage Factor ($k=2$), and measurement Uncertainty for a level of Confidence of 95%. 2. The U_{lab} is less than U_{cispr}, compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. 3. For conducted emission test of laboratory have a measurement uncertainty greater than that specified in harmonized standard, this equipment can still be used provided that an adjustment is made follows: any additional uncertainty in the test system over and above that specified in harmonized standard should be used to tighten the test.	



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4.3 Description of Support Units

Equipment	Model No.	Series No.	Parameters
Adapter	A0501	/	/

5 Conducted Emission

Test Requirement	:	FCC CFR 47 Part 15 Section 15.207
Test Method	:	ANSI C63.10-2020
Test Result	:	PASS
Frequency Range	:	150kHz to 30MHz
Class/Severity	:	Class B

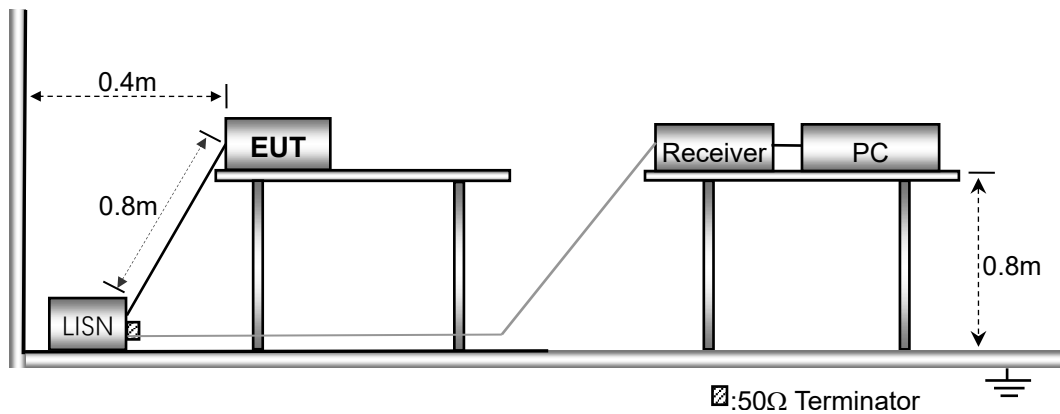
5.1 E.U.T. Operation

Operating Environment :

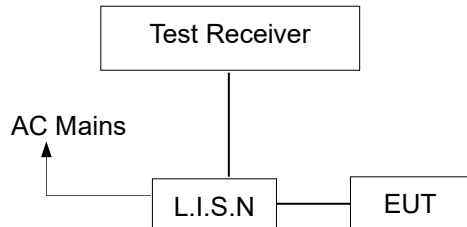
Temperature	:	25.5 °C
Humidity	:	51 % RH
Atmospheric Pressure	:	101.2kPa

5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020.



5.3 Test SET-UP (Block Diagram of Configuration)



5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

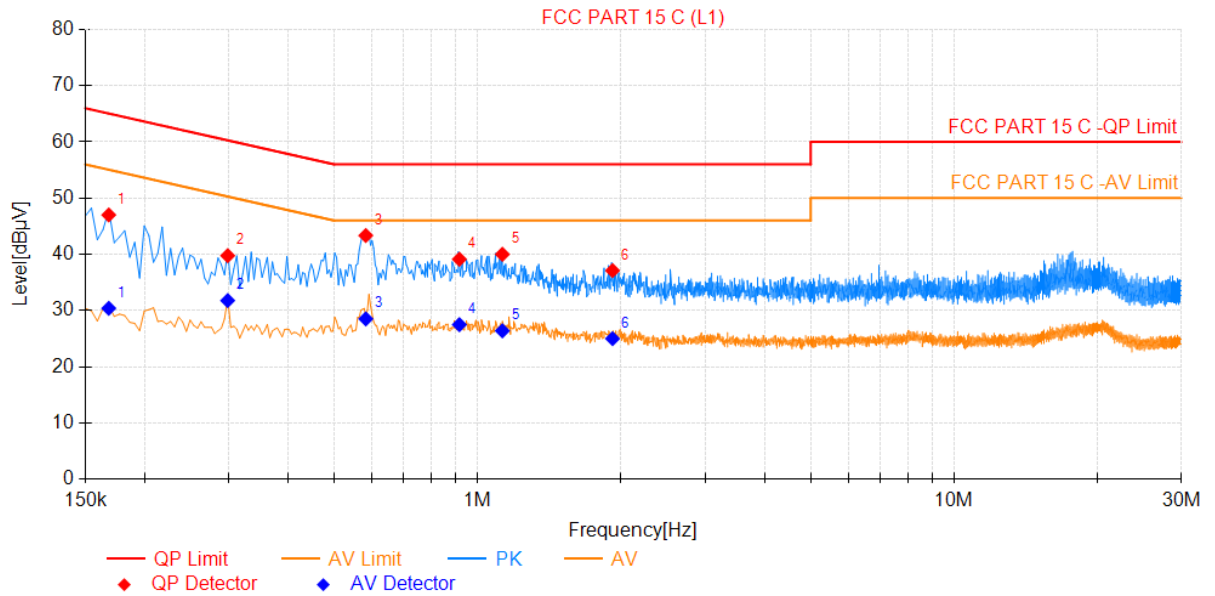
5.7 Conducted Emission Test Result

Pass.

All the modulation modes were tested the data of the worst mode (AC 120V/60Hz, GFSK TX 2402MHz) are recorded in the following pages and the others modulation methods do not exceed the limits.



Line-AC 120V/60Hz

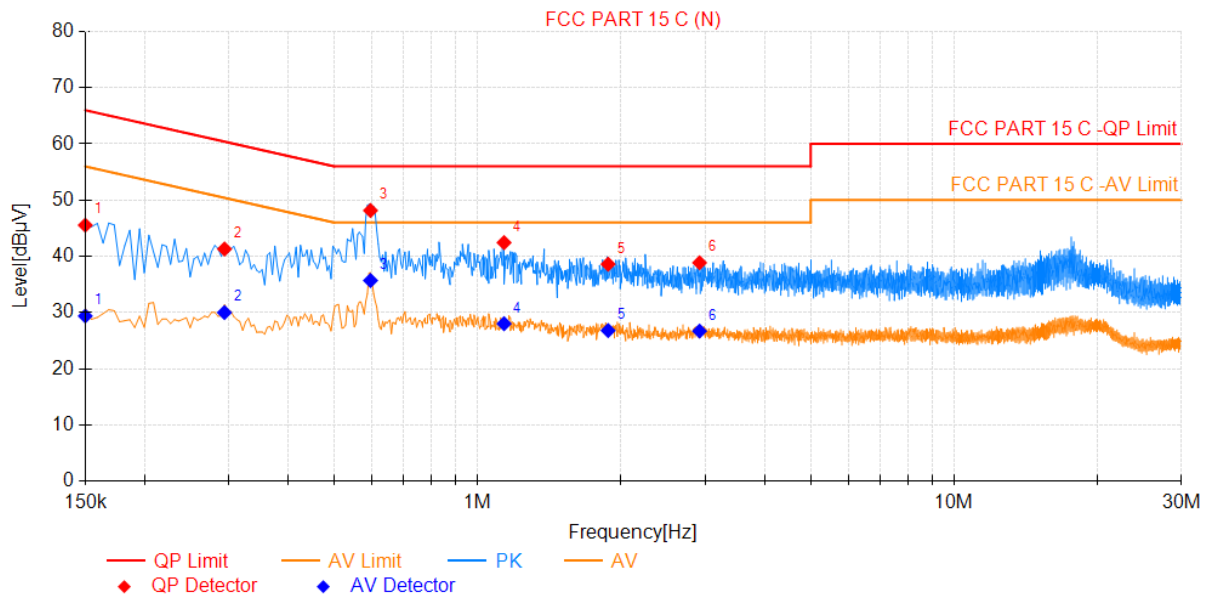


Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.168	27.55	19.46	47.01	65.06	18.05	10.93	30.39	55.06	24.67	PASS
2	0.299	20.33	19.43	39.76	60.28	20.52	12.34	31.77	50.28	18.51	PASS
3	0.582	23.96	19.39	43.35	56.00	12.65	9.12	28.51	46.00	17.49	PASS
4	0.915	19.70	19.42	39.12	56.00	16.88	8.06	27.48	46.00	18.52	PASS
5	1.127	20.51	19.49	40.00	56.00	16.00	6.90	26.39	46.00	19.61	PASS
6	1.919	17.64	19.46	37.10	56.00	18.90	5.53	24.99	46.00	21.01	PASS



Neutral-AC 120V/60Hz



Final Data List

NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.159	25.90	19.56	45.46	65.52	20.06	12.68	32.24	55.52	23.28	PASS
2	0.227	23.93	19.46	43.39	62.58	19.19	14.33	33.79	52.58	18.79	PASS
3	0.470	21.32	19.57	40.89	56.52	15.63	11.21	30.78	46.52	15.74	PASS
4	0.515	20.99	19.56	40.55	56.00	15.45	11.45	31.01	46.00	14.99	PASS
5	1.230	16.95	19.69	36.64	56.00	19.36	6.58	26.27	46.00	19.73	PASS
6	12.039	32.82	19.76	52.58	60.00	7.42	21.62	41.38	50.00	8.62	PASS

Note: QP Margin[dB]= QP Limit[dBμV]- QP Value[dBμV], AV Margin[dB]= AV Limit[dBμV]- AV Value[dBμV].



6 Radiated Spurious Emissions

Test Requirement : FCC CFR47 Part 15 Section 15.209 & 15.247
Test Method : ANSI C63.10-2020
Test Result : PASS
Measurement Distance : 3m
Limit : See the follow table

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

6.1 EUT Operation

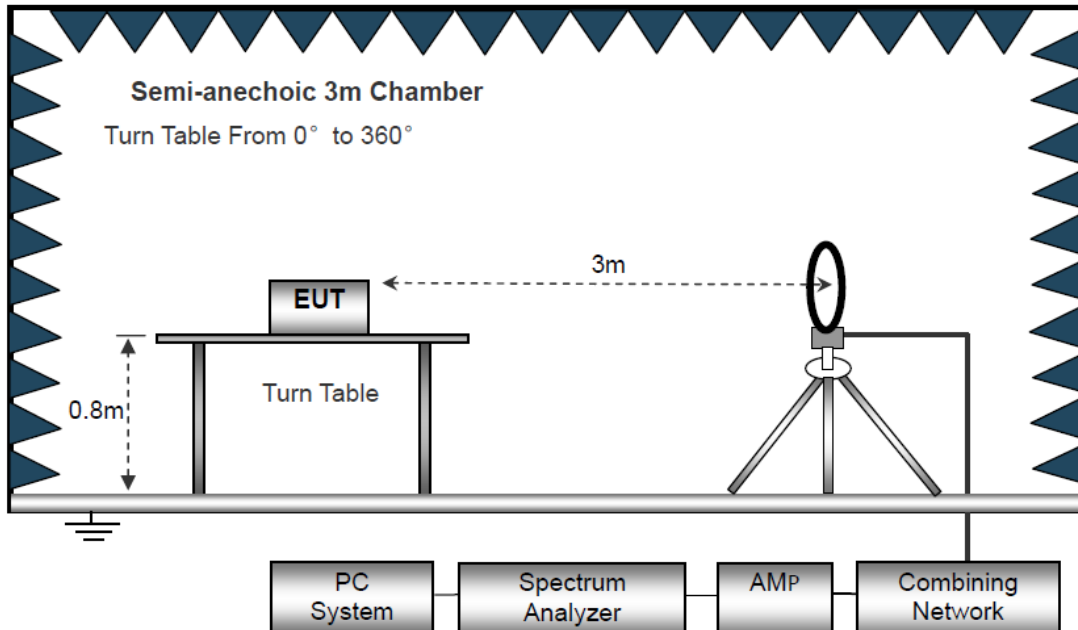
Operating Environment :

Temperature : 23.5 °C
Humidity : 51.1 % RH
Atmospheric Pressure : 101.2kPa

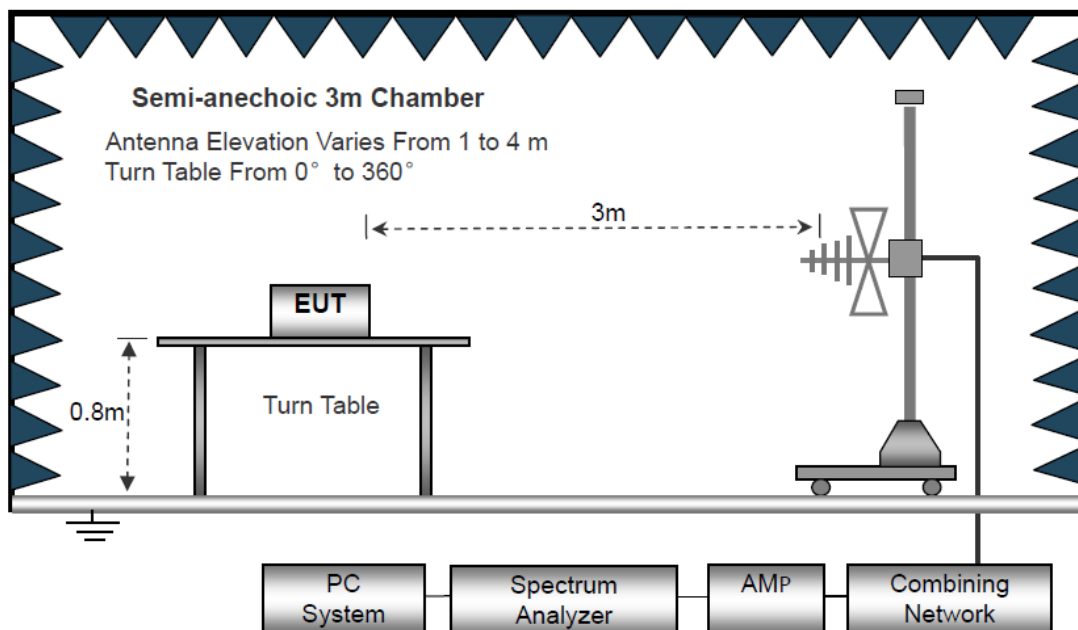
6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

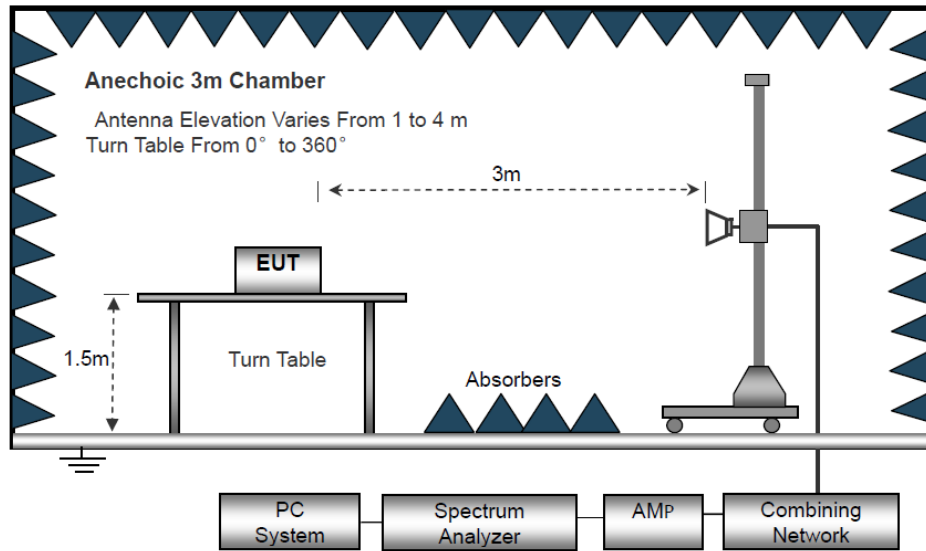
The test setup for emission measurement below 30MHz



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz



6.3 Spectrum Analyzer Setup

Receiver Setup	Frequency	Detector	RBW	VBW	Remark
	Below 30MHz	--	10kHz	10kHz	--
	30MHz ~ 1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value



6.4 Test Procedure

1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10-2020.
2. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane. And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (From 1m to 4m) and turntable (from 0 degree to 360 degree) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Final measurement (Above 1GHz): The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1MHz. The measurement will be performed in horizontal and vertical polarization of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 degree to 360 degree in order to have the antenna inside the cone of radiation.
7. Test Procedure of measurement (For Above 1GHz):
 - 1) Monitor the frequency range at horizontal polarization and move the antenna over all sides of the EUT(if necessary move the EUT to another orthogonal axis).
 - 2) Change the antenna polarization and repeat 1) with vertical polarization.
 - 3) Make a hardcopy of the spectrum.
 - 4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
 - 5) Change the analyser mode to Clear/ Write and found the cone of emission.
 - 6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3m and the antenna will be still inside the cone of emission.
 - 7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarization and azimuth and the peak and average detector, which causes the maximum emission.
 - 8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beamwidth.
8. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.



For Average Measurement:

VBW=10Hz, when duty cycle is no less than 98 percent.

VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Band	Duty Cycle(%)	T(μ s)	1/T(KHz)	Average Correction Factor	VBW Setting
2402-2480	100	-	-	0	10Hz



6.5 Summary of Test Results

Test Frequency: 9KHz-30MHz

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance} / \text{test distance})$ (dB);
Limit line = Specific limits (dBuV) + distance extrapolation factor.



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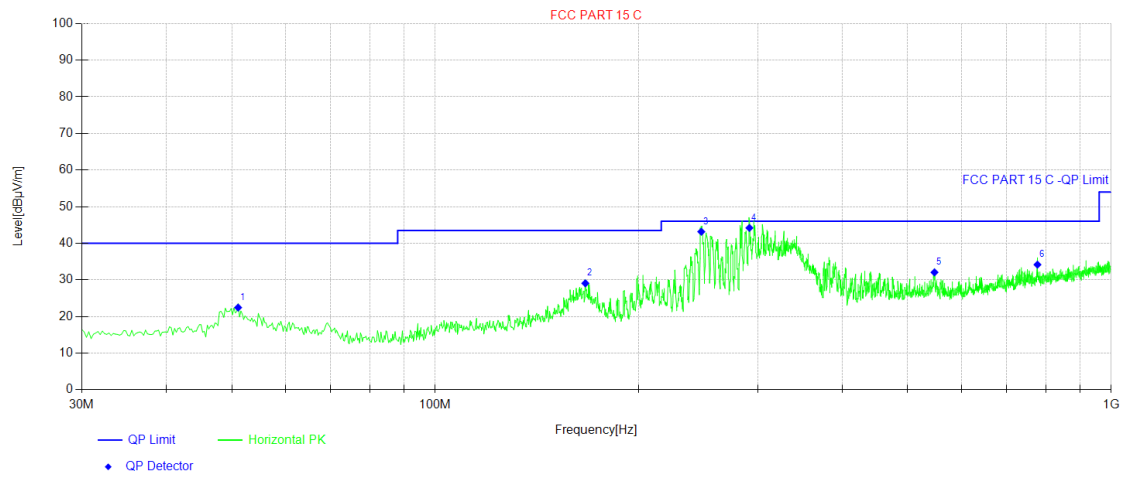
Test Frequency: 30MHz ~ 1GHz

Pass.

Please refer to the following test plots for the worst test mode (BLE_1M_GFSK (CH00: 2402MHz)).



Antenna Polarization: Horizontal GFSK(CH00: 2402MHz)

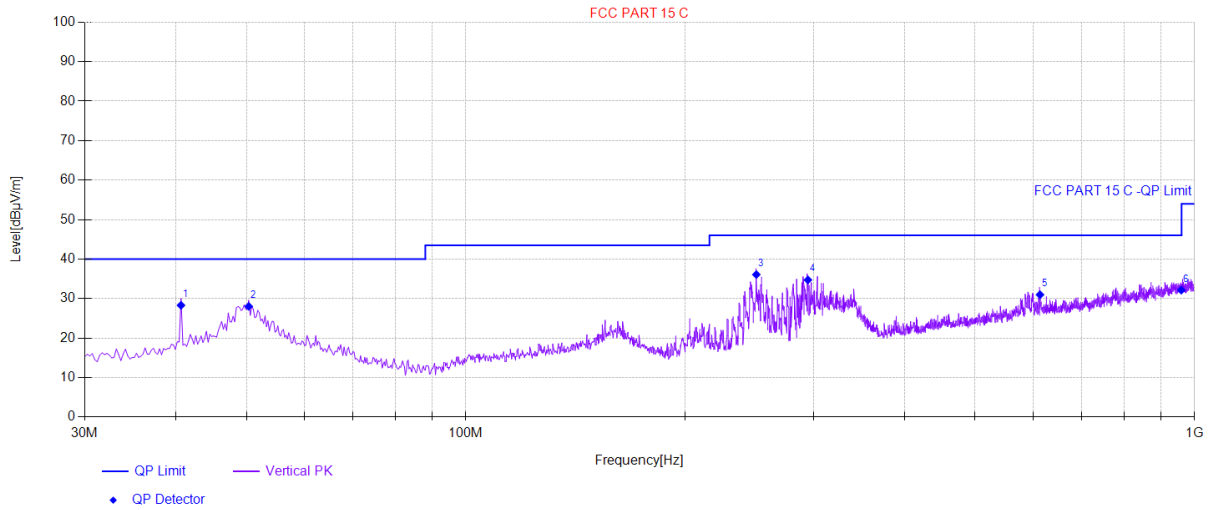


Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	51.10	32.41	-9.96	22.45	40.00	17.55	Horizontal	PASS
2	166.77	37.64	-8.57	29.07	43.50	14.43	Horizontal	PASS
3	247.52	52.23	-9.07	43.16	46.00	2.84	Horizontal	PASS
4	291.58	51.69	-7.49	44.20	46.00	1.80	Horizontal	PASS
5	547.74	33.39	-1.33	32.06	46.00	13.94	Horizontal	PASS
6	777.87	30.62	3.55	34.17	46.00	11.83	Horizontal	PASS

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor



Antenna Polarization: Vertical GFSK(CH00: 2402MHz)



Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	40.67	38.44	-10.13	28.31	40.00	11.69	Vertical	PASS
2	50.37	38	-9.97	28.03	40.00	11.97	Vertical	PASS
3	250.43	45.1	-9.01	36.09	46.00	9.91	Vertical	PASS
4	294.81	42.15	-7.42	34.73	46.00	11.27	Vertical	PASS
5	613.70	30.53	0.46	30.99	46.00	15.01	Vertical	PASS
6	959.02	25.58	6.57	32.15	46.00	13.85	Vertical	PASS

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor



Test Frequency 1GHz-25GHz:

Test Mode: CH00 BLE_1M_GFSK					Test channel:Low Channel (2402MHz)			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804	44.96	34.04	6.58	34.09	51.49	74	-22.51	V
7206	41.99	37.11	7.73	34.5	52.33	74	-21.67	V
9608	38.37	39.31	9.23	34.79	52.12	74	-21.88	V
4804	45.68	34.04	6.58	34.09	52.21	74	-21.79	H
7206	37.35	37.11	7.73	34.5	47.69	74	-26.31	H
9608	39.73	39.31	9.23	34.79	53.48	74	-20.52	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804	33.81	34.04	6.58	34.09	40.34	54	-13.66	V
7206	28.55	37.11	7.73	34.5	38.89	54	-15.11	V
9608	26.20	39.31	9.23	34.79	39.95	54	-14.05	V
4804	31.79	34.04	6.58	34.09	38.32	54	-15.68	H
7206	28.41	37.11	7.73	34.5	38.75	54	-15.25	H
9608	25.64	39.31	9.23	34.79	39.39	54	-14.61	H



Test Mode: CH19 BLE_1M_GFSK					Test channel:Middle Channel (2440MHz)			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880	43.40	34.38	6.69	34.09	50.38	74	-23.62	V
7320	39.76	37.22	7.78	34.53	50.23	74	-23.77	V
9760	34.58	39.46	9.35	34.8	48.59	74	-25.41	V
4880	40.98	34.38	6.69	34.09	47.96	74	-26.04	H
7320	38.00	37.22	7.78	34.53	48.47	74	-25.53	H
9760	36.84	39.46	9.35	34.8	50.85	74	-23.15	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880	34.49	34.38	6.69	34.09	41.47	54	-12.53	V
7320	27.90	37.22	7.78	34.53	38.37	54	-15.63	V
9760	25.08	39.46	9.35	34.8	39.09	54	-14.91	V
4880	32.84	34.38	6.69	34.09	39.82	54	-14.18	H
7320	27.36	37.22	7.78	34.53	37.83	54	-16.17	H
9760	24.62	39.46	9.35	34.8	38.63	54	-15.37	H



Test Mode: CH39 BLE_1M_GFSK					Test channel:High Channel (2480MHz)			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960	41.15	34.72	6.68	34.09	48.46	74	-25.54	V
7440	41.00	37.34	6.73	34.57	50.50	74	-23.50	V
9920	34.78	39.62	6.81	34.81	46.40	74	-27.60	V
4960	42.00	34.72	6.68	34.09	49.31	74	-24.69	H
7440	38.44	37.34	6.73	34.57	47.94	74	-26.06	H
9920	36.51	39.62	6.81	34.81	48.13	74	-25.87	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960	34.05	34.72	6.68	34.09	41.36	54	-12.64	V
7440	26.73	37.34	6.73	34.57	36.23	54	-17.77	V
9920	24.56	39.62	6.81	34.81	36.18	54	-17.82	V
4960	33.87	34.72	6.68	34.09	41.18	54	-12.82	H
7440	28.82	37.34	6.73	34.57	38.32	54	-15.68	H
9920	26.35	39.62	6.81	34.81	37.97	54	-16.03	H



Test Mode: CH00 BLE_2M_GFSK					Test channel:Low Channel (2402MHz)			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804	44.12	34.04	6.58	34.09	50.65	74	-23.35	V
7206	41.36	37.11	7.73	34.5	51.70	74	-22.30	V
9608	38.95	39.31	9.23	34.79	52.70	74	-21.30	V
4804	45.09	34.04	6.58	34.09	51.62	74	-22.38	H
7206	37.10	37.11	7.73	34.5	47.44	74	-26.56	H
9608	40.23	39.31	9.23	34.79	53.98	74	-20.02	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4804	33.17	34.04	6.58	34.09	39.70	54	-14.30	V
7206	27.53	37.11	7.73	34.5	37.87	54	-16.13	V
9608	25.98	39.31	9.23	34.79	39.73	54	-14.27	V
4804	32.91	34.04	6.58	34.09	39.44	54	-14.56	H
7206	26.69	37.11	7.73	34.5	37.03	54	-16.97	H
9608	25.86	39.31	9.23	34.79	39.61	54	-14.39	H



Test Mode: CH19 BLE_2M_GFSK					Test channel:Middle Channel (2440MHz)			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880	42.05	34.38	6.69	34.09	49.03	74	-24.97	V
7320	40.05	37.22	7.78	34.53	50.52	74	-23.48	V
9760	34.84	39.46	9.35	34.8	48.85	74	-25.15	V
4880	40.67	34.38	6.69	34.09	47.65	74	-26.35	H
7320	38.00	37.22	7.78	34.53	48.47	74	-25.53	H
9760	37.31	39.46	9.35	34.8	51.32	74	-22.68	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4880	31.99	34.38	6.69	34.09	38.97	54	-15.03	V
7320	28.91	37.22	7.78	34.53	39.38	54	-14.62	V
9760	24.65	39.46	9.35	34.8	38.66	54	-15.34	V
4880	33.50	34.38	6.69	34.09	40.48	54	-13.52	H
7320	28.07	37.22	7.78	34.53	38.54	54	-15.46	H
9760	24.71	39.46	9.35	34.8	38.72	54	-15.28	H



Test Mode: CH39 BLE_2M_GFSK					Test channel:High Channel (2480MHz)			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960	40.88	34.72	6.68	34.09	48.19	74	-25.81	V
7440	40.28	37.34	6.73	34.57	49.78	74	-24.22	V
9920	33.55	39.62	6.81	34.81	45.17	74	-28.83	V
4960	40.66	34.72	6.68	34.09	47.97	74	-26.03	H
7440	37.00	37.34	6.73	34.57	46.50	74	-27.50	H
9920	37.73	39.62	6.81	34.81	49.35	74	-24.65	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
4960	32.59	34.72	6.68	34.09	39.90	54	-14.10	V
7440	28.27	37.34	6.73	34.57	37.77	54	-16.23	V
9920	23.85	39.62	6.81	34.81	35.47	54	-18.53	V
4960	34.44	34.72	6.68	34.09	41.75	54	-12.25	H
7440	27.27	37.34	6.73	34.57	36.77	54	-17.23	H
9920	23.55	39.62	6.81	34.81	35.17	54	-18.83	H

Note: 1. The testing has been conformed to $10 \times 2480\text{MHz} = 24800\text{MHz}$.

2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
Margin=Emission Level-Limit

**Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz**

Test Mode: BLE 1M Low Channel 2402MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	Test Value
2310.00	55.33	28.67	6.72	37.26	53.46	74	-20.54	H	Peak
2390.00	54.66	28.08	6.81	37.12	52.43	74	-21.57	H	Peak
2310.00	35.03	28.67	6.72	37.26	33.16	54	-20.84	H	Average
2390.00	34.94	28.08	6.81	37.12	32.71	54	-21.29	H	Average
2310.00	55.62	28.67	6.72	37.26	53.75	74	-20.25	V	Peak
2390.00	55.88	28.08	6.81	37.12	53.65	74	-20.35	V	Peak
2310.00	35.44	28.67	6.72	37.26	33.57	54	-20.43	V	Average
2390.00	37.29	28.08	6.81	37.12	35.06	54	-18.94	V	Average

Test Mode: BLE 1M High Channel 2480MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	Test Value
2483.50	54.97	27.38	6.15	36.29	52.21	74	-21.79	H	Peak
2500.00	54.23	27.43	6.68	36.79	51.55	74	-22.45	H	Peak
2483.50	36.03	27.38	6.15	36.29	33.27	54	-20.73	H	Average
2500.00	36.83	27.43	6.68	36.79	34.15	54	-19.85	H	Average
2483.50	53.43	27.38	6.15	36.29	50.67	74	-23.33	V	Peak
2500.00	53.76	27.43	6.68	36.79	51.08	74	-22.92	V	Peak
2483.50	37.36	27.38	6.15	36.29	34.60	54	-19.40	V	Average
2500.00	38.52	27.43	6.68	36.79	35.84	54	-18.16	V	Average



Test Mode: BLE 2M Low Channel 2402MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	Test Value
2310.00	53.75	28.67	6.72	37.26	51.88	74	-22.12	H	Peak
2390.00	53.74	28.08	6.81	37.12	51.51	74	-22.49	H	Peak
2310.00	32.61	28.67	6.72	37.26	30.74	54	-23.26	H	Average
2390.00	34.56	28.08	6.81	37.12	32.33	54	-21.67	H	Average
2310.00	56.77	28.67	6.72	37.26	54.90	74	-19.10	V	Peak
2390.00	57.08	28.08	6.81	37.12	54.85	74	-19.15	V	Peak
2310.00	34.64	28.67	6.72	37.26	32.77	54	-21.23	V	Average
2390.00	34.60	28.08	6.81	37.12	32.37	54	-21.63	V	Average

Test Mode: BLE 2M High Channel 2480MHz									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over (dB)	Polarity H/V	Test Value
2483.50	53.15	27.38	6.15	36.29	50.39	74	-23.61	H	Peak
2500.00	53.95	27.43	6.68	36.79	51.27	74	-22.73	H	Peak
2483.50	36.67	27.38	6.15	36.29	33.91	54	-20.09	H	Average
2500.00	36.81	27.43	6.68	36.79	34.13	54	-19.87	H	Average
2483.50	54.82	27.38	6.15	36.29	52.06	74	-21.94	V	Peak
2500.00	52.73	27.43	6.68	36.79	50.05	74	-23.95	V	Peak
2483.50	35.89	27.38	6.15	36.29	33.13	54	-20.87	V	Average
2500.00	36.57	27.43	6.68	36.79	33.89	54	-20.11	V	Average



7 Conduct Band Edge And Spurious Emissions Measurement

Test Requirement	: Section 15.247(d) In addition, radiated emissions which fall in the restricted bands. as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
Test Method	: ANSI C63.10-2020
Test Limit	: Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.1 Test Procedure

Reference Level:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum; Set to the maximum power setting and enable the EUT transmit continuously.
2. Establish a reference level by using the following procedure:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to ≥ 1.5 times the DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW $\geq [3 \times \text{RBW}]$.
 - e) Detector = peak.
 - f) Sweep time = No faster than coupled (auto) time.
 - g) Trace mode = max-hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level

Spurious Emissions Measurement:

Establish an emission level by using the following procedure:

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution.

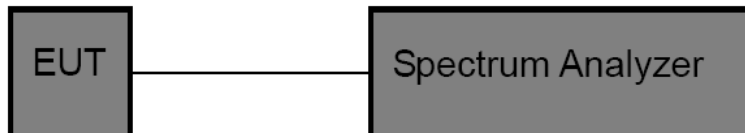
NOTE—the number of points can also be increased for large spans to retain frequency resolution

- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = No faster than coupled (auto) time.



- f) Trace mode = max-hold.
 - g) Allow trace to fully stabilize.
 - h) Use the peak marker function to determine the maximum amplitude level.
- Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

7.2 Test Setup



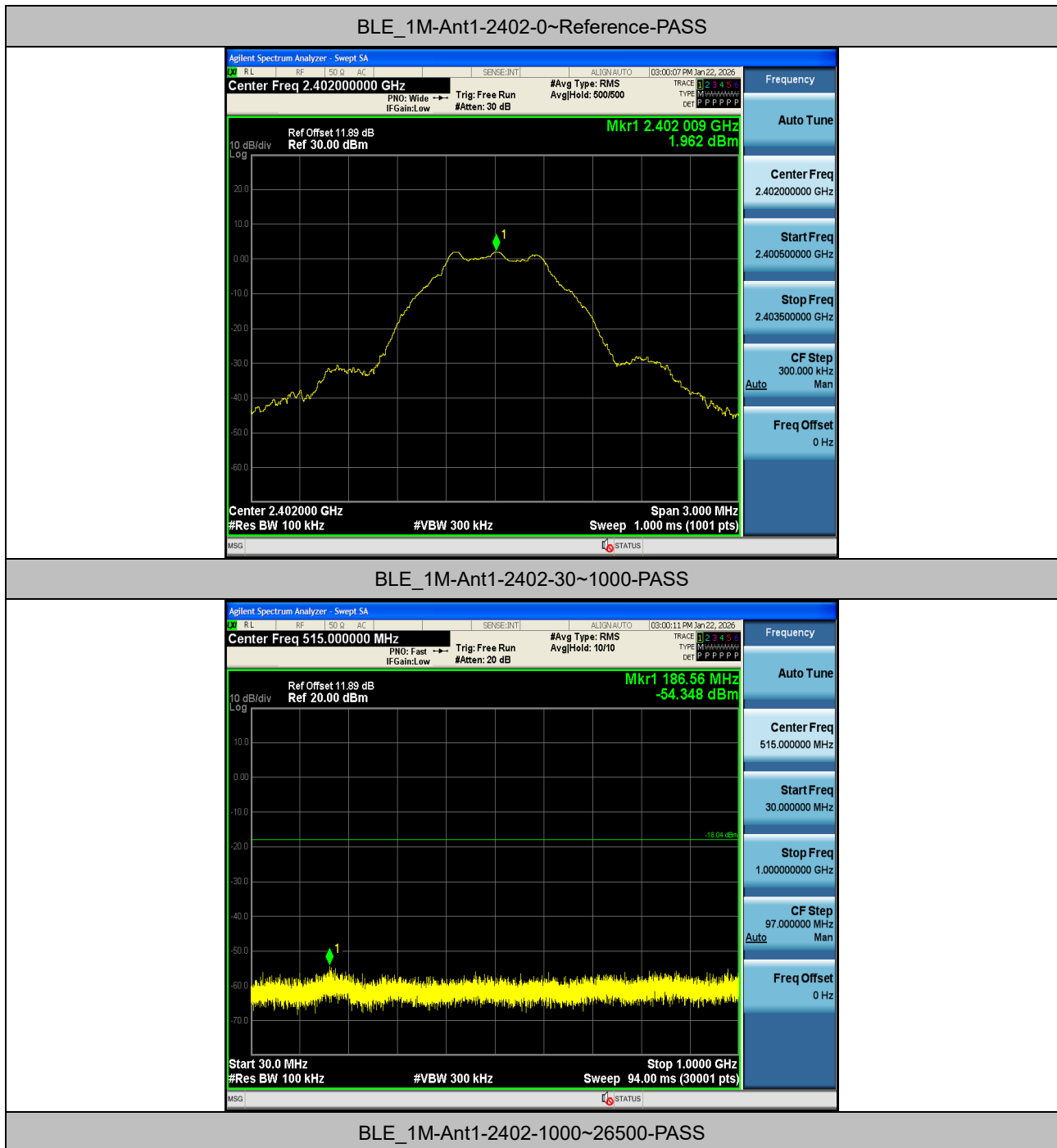


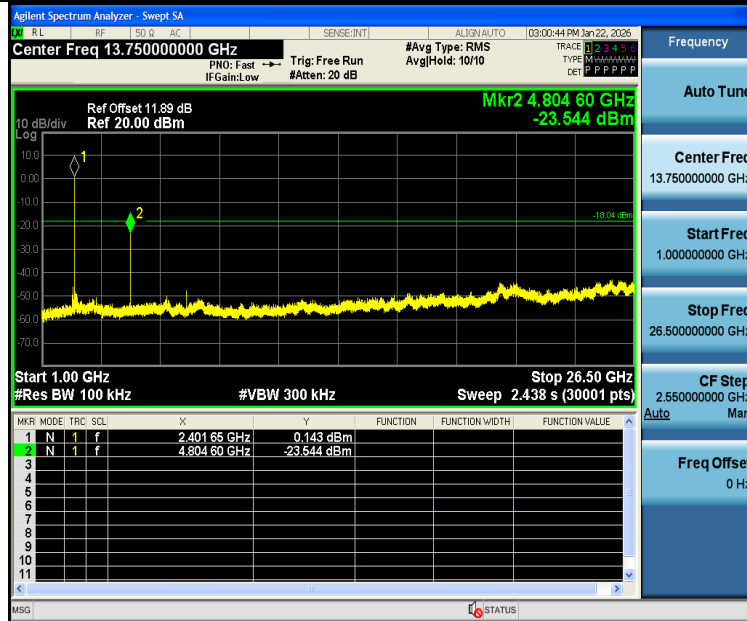
7.3 Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	1.96	1.96	---	PASS
BLE_1M	Ant1	2402	30~1000	1.96	-54.35	≤-18.04	PASS
BLE_1M	Ant1	2402	1000~26500	1.96	-23.54	≤-18.04	PASS
BLE_1M	Ant1	2440	0~Reference	0.50	0.50	---	PASS
BLE_1M	Ant1	2440	30~1000	0.50	-55.08	≤-19.5	PASS
BLE_1M	Ant1	2440	1000~26500	0.50	-24.91	≤-19.5	PASS
BLE_1M	Ant1	2480	0~Reference	-3.29	-3.29	---	PASS
BLE_1M	Ant1	2480	30~1000	-3.29	-55.21	≤-23.29	PASS
BLE_1M	Ant1	2480	1000~26500	-3.29	-30.94	≤-23.29	PASS
BLE_2M	Ant1	2402	0~Reference	1.99	1.99	---	PASS
BLE_2M	Ant1	2402	30~1000	1.99	-55.19	≤-18.01	PASS
BLE_2M	Ant1	2402	1000~26500	1.99	-28.79	≤-18.01	PASS
BLE_2M	Ant1	2440	0~Reference	0.51	0.51	---	PASS
BLE_2M	Ant1	2440	30~1000	0.51	-54.97	≤-19.49	PASS
BLE_2M	Ant1	2440	1000~26500	0.51	-26.41	≤-19.49	PASS
BLE_2M	Ant1	2480	0~Reference	-3.28	-3.28	---	PASS
BLE_2M	Ant1	2480	30~1000	-3.28	-54.76	≤-23.28	PASS
BLE_2M	Ant1	2480	1000~26500	-3.28	-30.7	≤-23.28	PASS



Test Graphs:

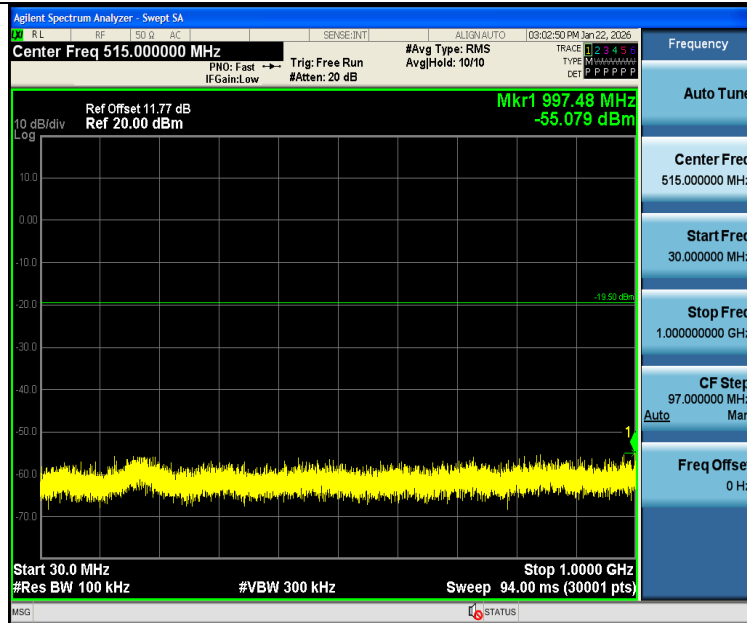




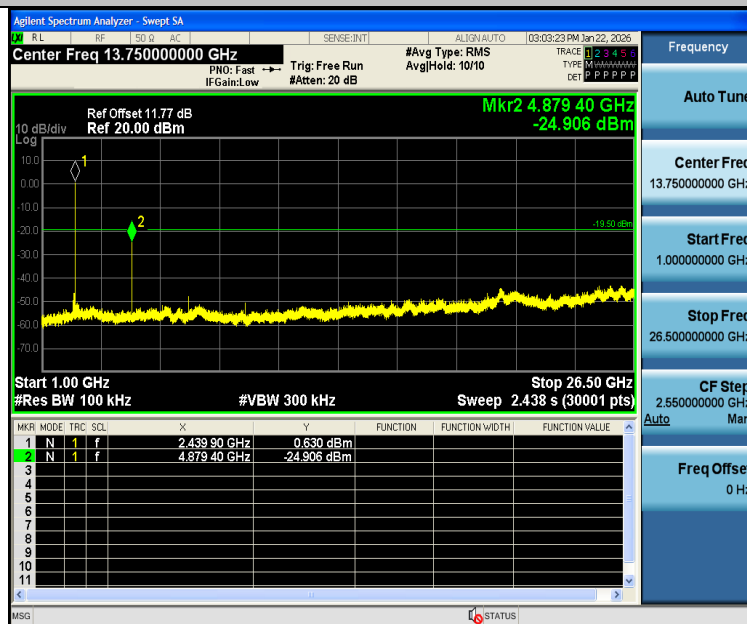
BLE_1M-Ant1-2440-0~Reference-PASS



BLE_1M-Ant1-2440-30~1000-PASS



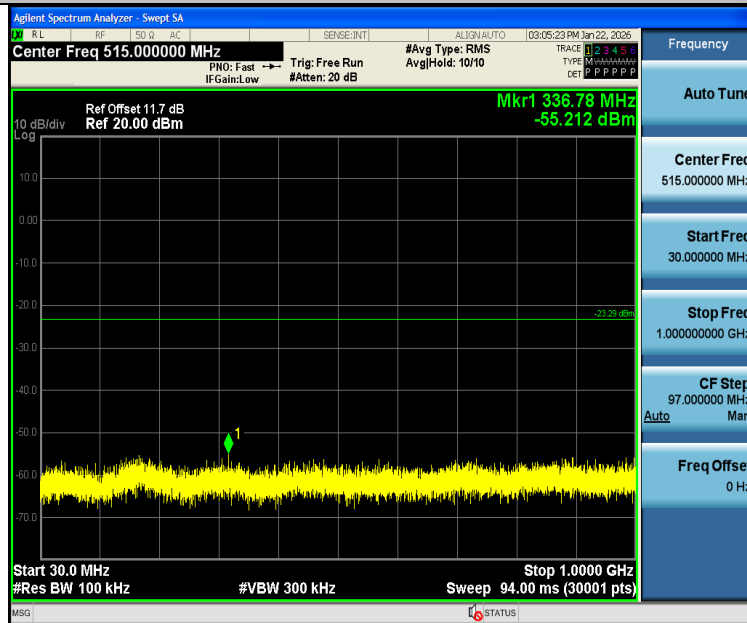
BLE_1M-Ant1-2440-1000~26500-PASS



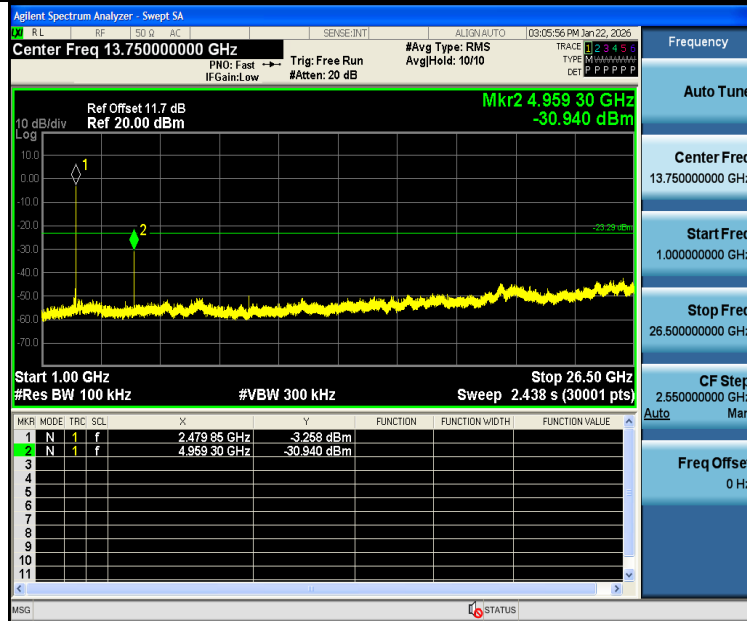
BLE_1M-Ant1-2480-0~Reference-PASS



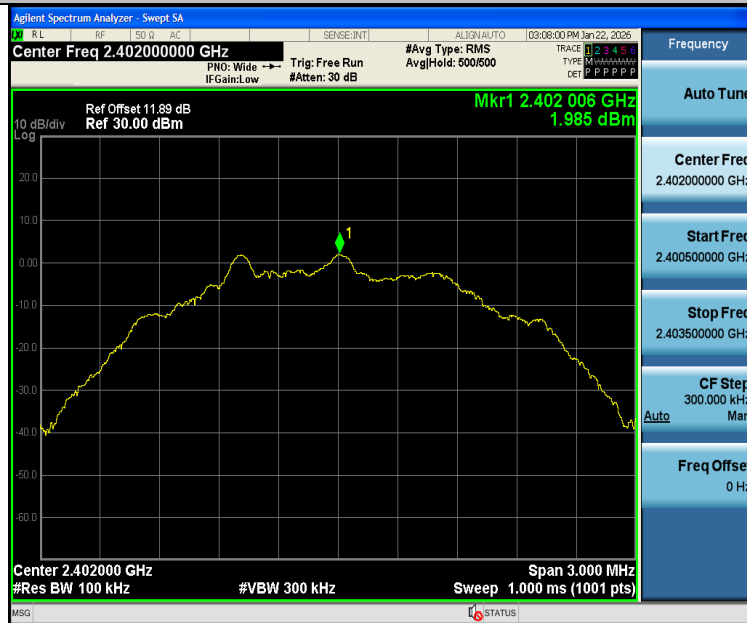
BLE_1M-Ant1-2480-30~1000-PASS



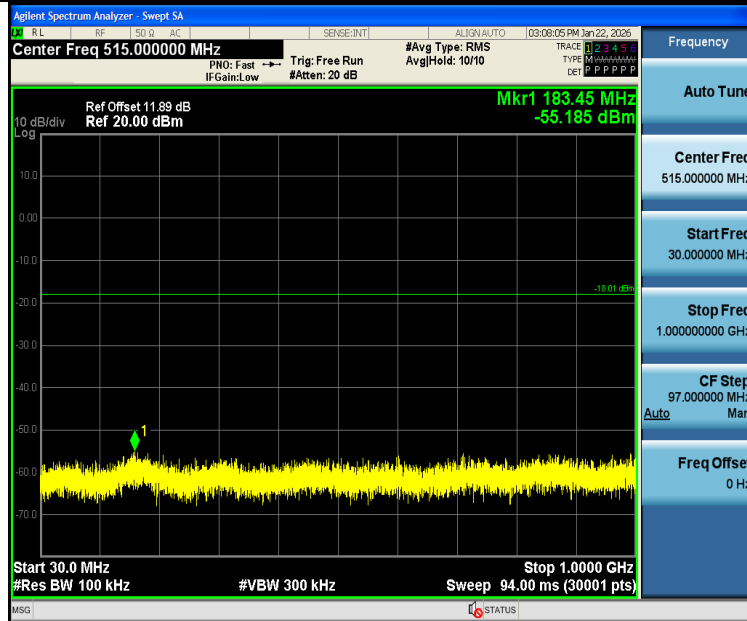
BLE_1M-Ant1-2480-1000~26500-PASS



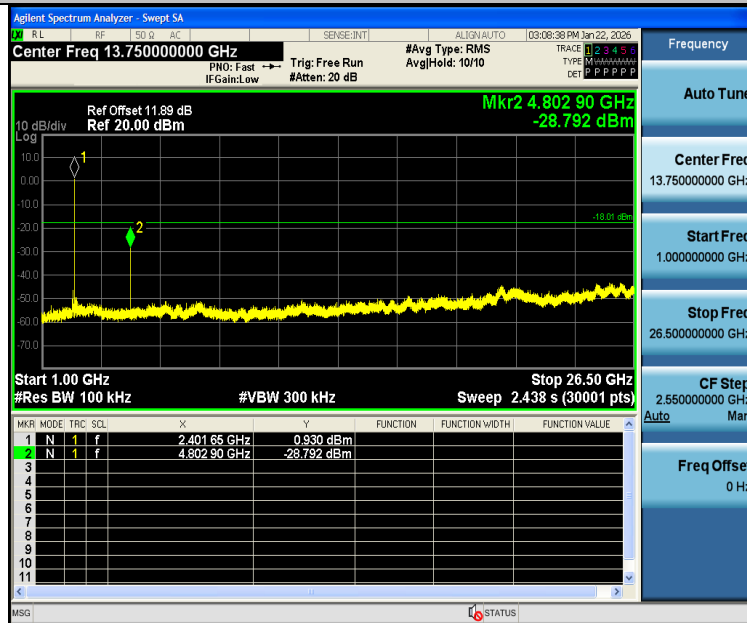
BLE_2M-Ant1-2402-0~Reference-PASS



BLE_2M-Ant1-2402-30~1000-PASS



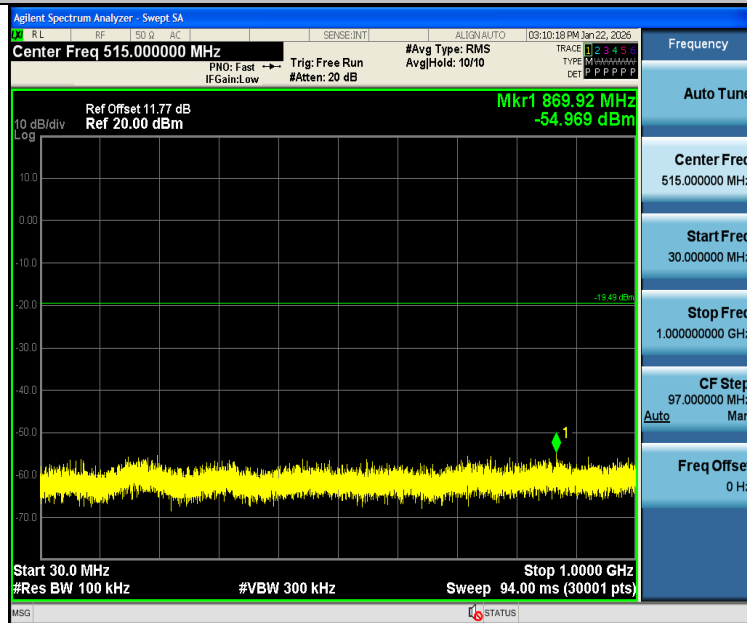
BLE_2M-Ant1-2402-1000~26500-PASS



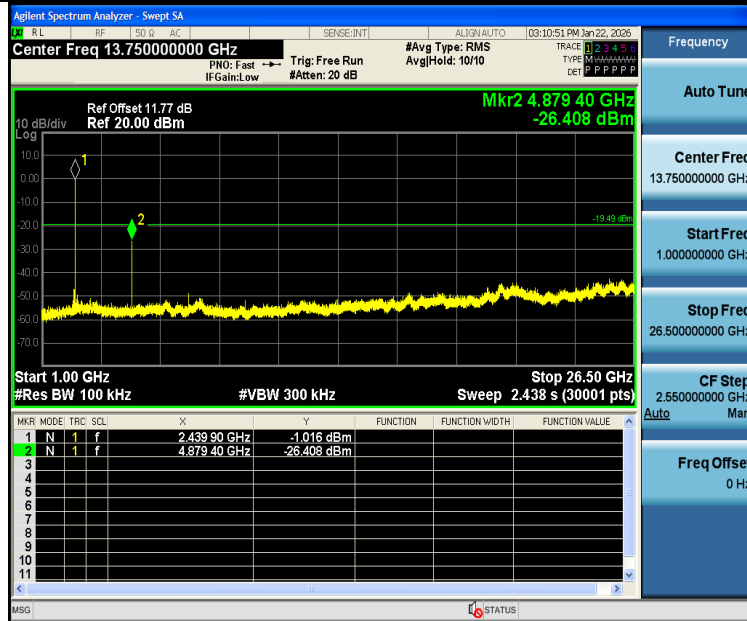
BLE_2M-Ant1-2440-0~Reference-PASS



BLE_2M-Ant1-2440-30~1000-PASS



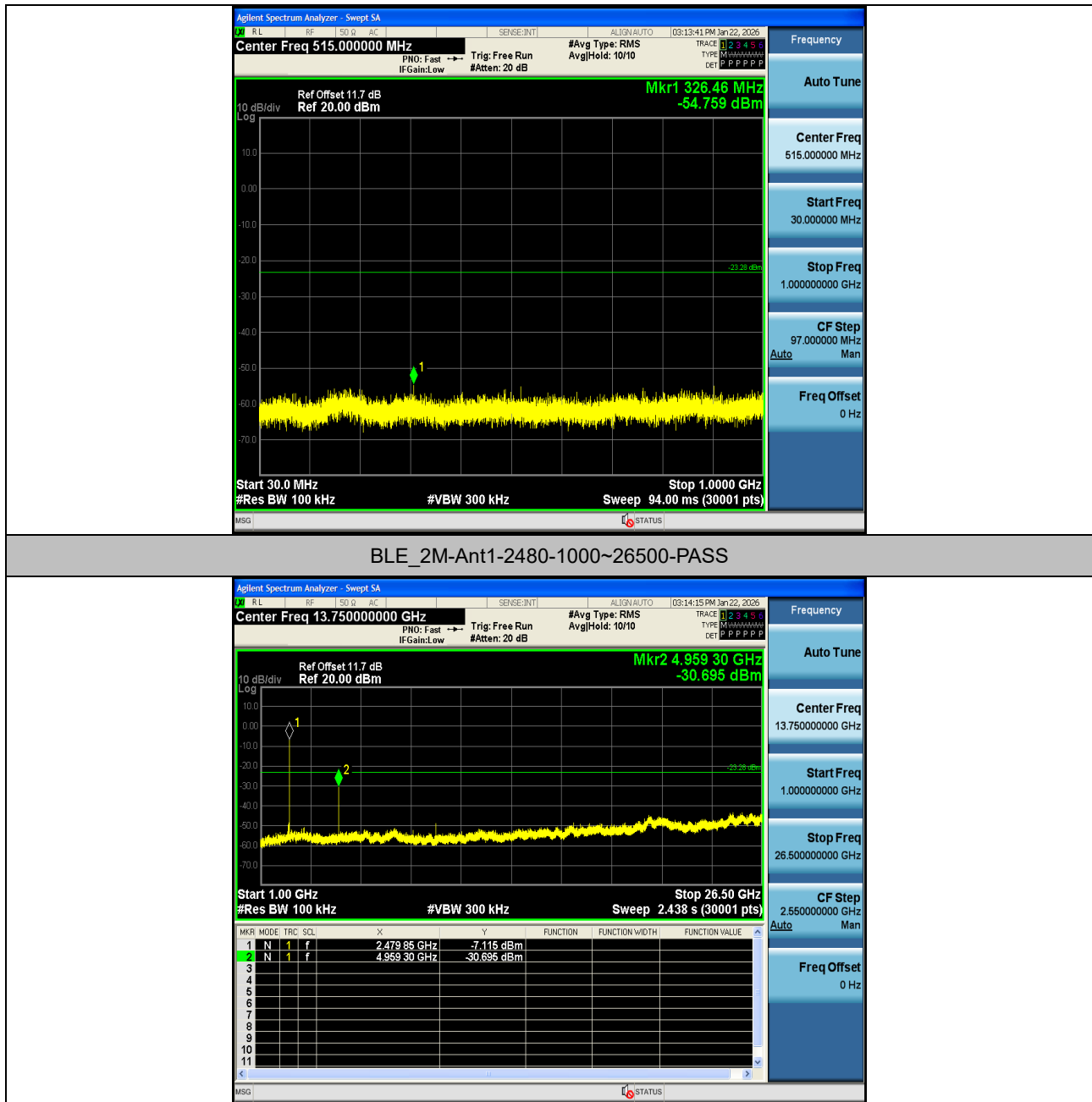
BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



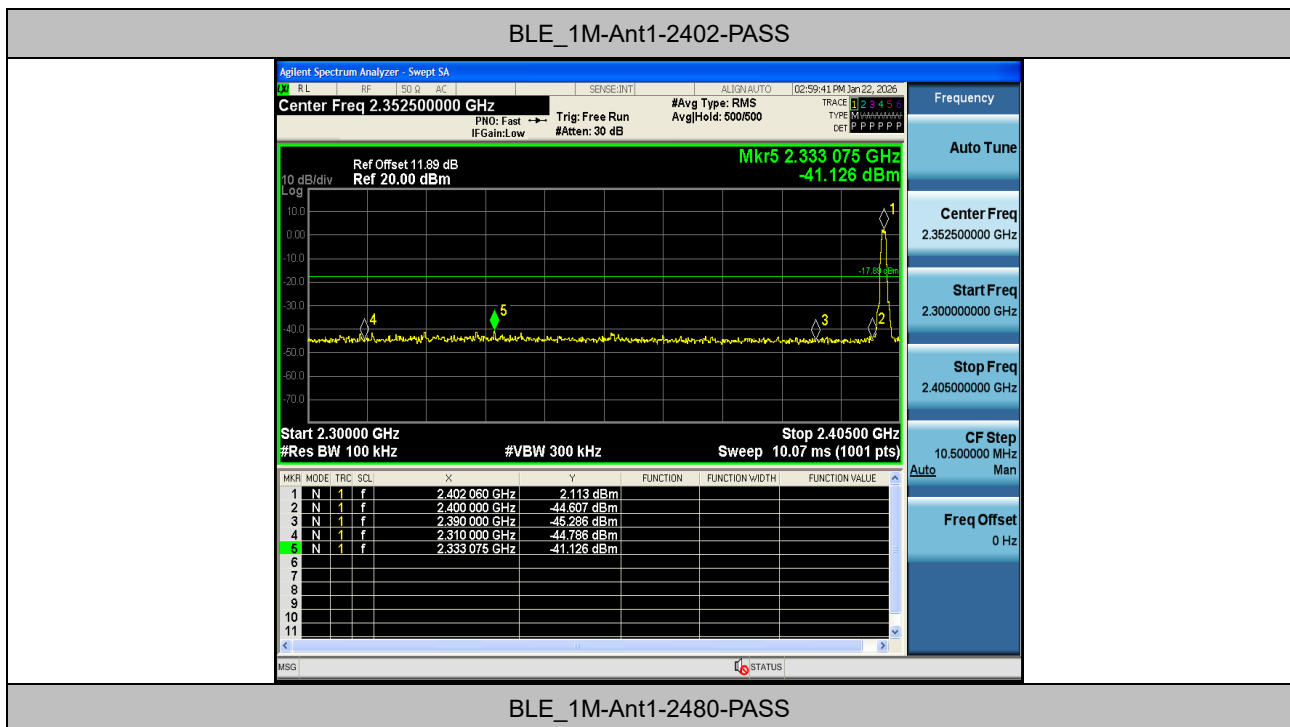
BLE_2M-Ant1-2480-30~1000-PASS

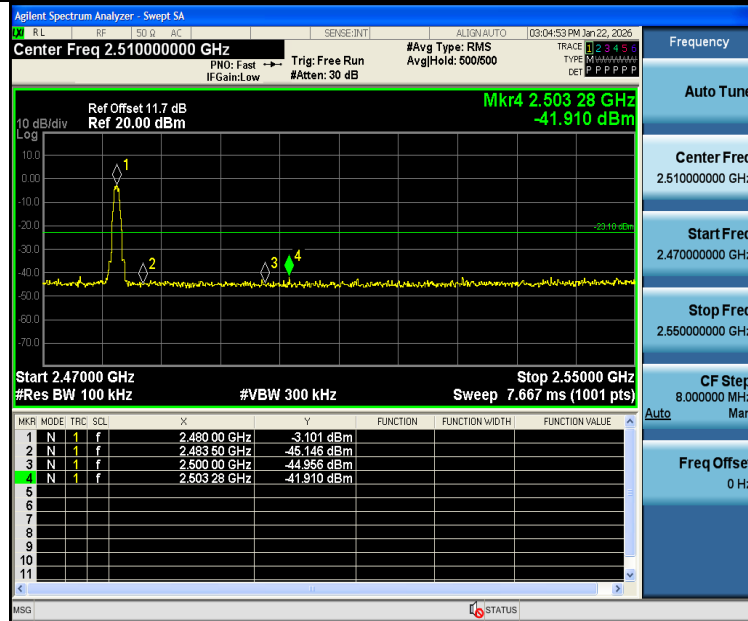




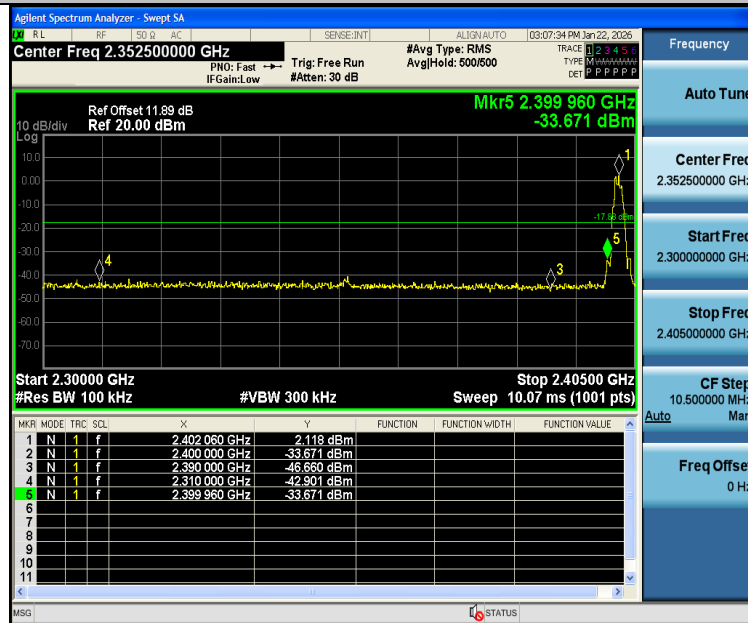
Band edge:

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	2.11	-41.13	≤-17.89	PASS
BLE_1M	Ant1	High	2480	-3.10	-41.91	≤-23.1	PASS
BLE_2M	Ant1	Low	2402	2.12	-33.67	≤-17.88	PASS
BLE_2M	Ant1	High	2480	-3.04	-40.83	≤-23.04	PASS

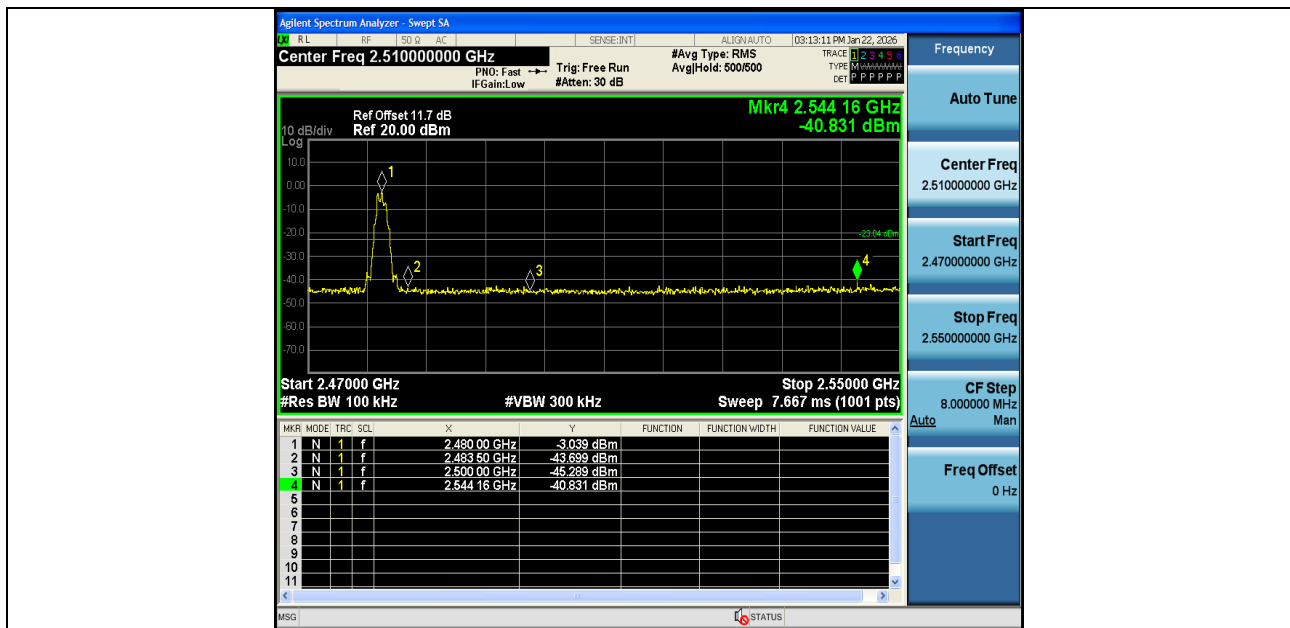




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2480-PASS





8 6dB Bandwidth Measurement

Test Requirement : FCC CFR47 Part 15 Section 15.247

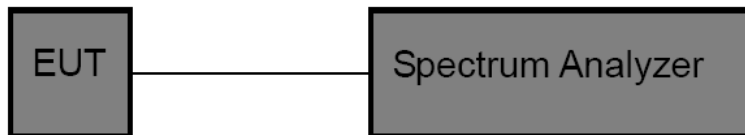
Test Method : ANSI C63.10-2020

Test Limit : Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2.steps for the first option are as follows:
 - a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
 - b) Set the VBW $\geq [3 \times \text{RBW}]$.
 - c) Detector = peak.
 - d) Trace mode = max-hold.
 - e) Sweep = No faster than coupled (auto) time.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

Test Setup



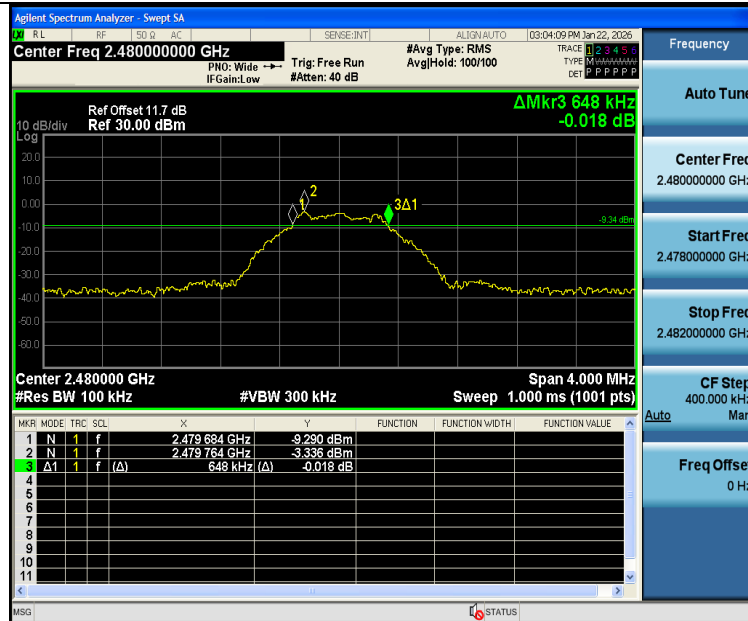
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.664	2401.668	2402.332	0.5	PASS
BLE_1M	Ant1	2440	0.660	2439.676	2440.336	0.5	PASS
BLE_1M	Ant1	2480	0.648	2479.684	2480.332	0.5	PASS
BLE_2M	Ant1	2402	1.100	2401.460	2402.560	0.5	PASS
BLE_2M	Ant1	2440	1.128	2439.440	2440.568	0.5	PASS
BLE_2M	Ant1	2480	1.112	2479.448	2480.560	0.5	PASS



Test Graphs:





BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS



BLE_2M-Ant1-2480-PASS





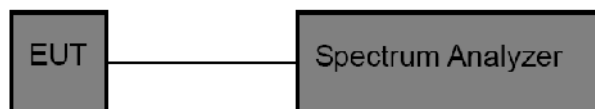
9 Maximum Peak Output Power

Test Requirement	:	FCC CFR47 Part 15 Section 15.247
Test Method	:	ANSI C63.10-2020
Test Limit	:	Regulation 15.247 (b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.

9.1 Test Procedure

1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Measure the conducted output power and record the results in the test report.

9.2 Test Setup

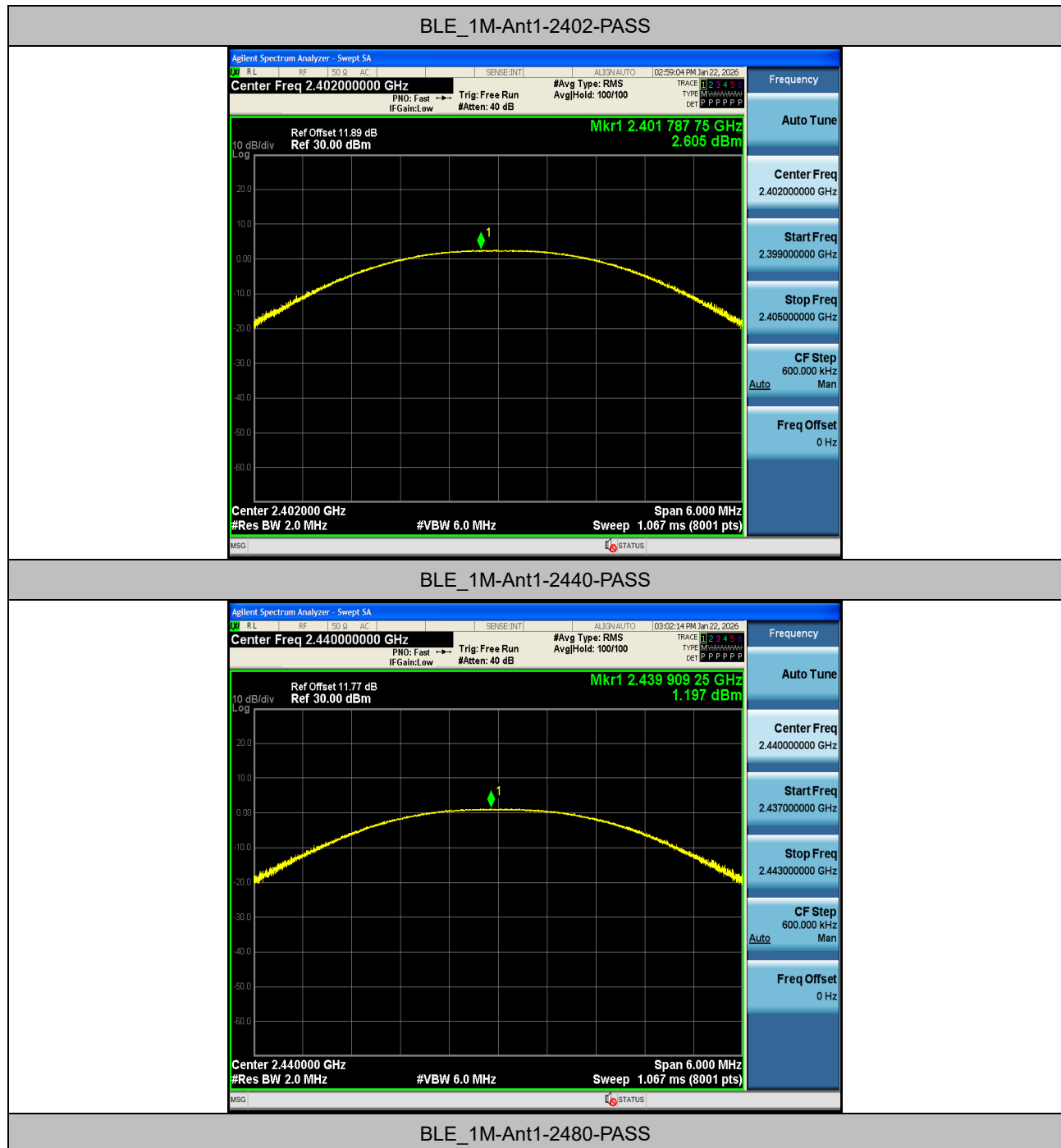


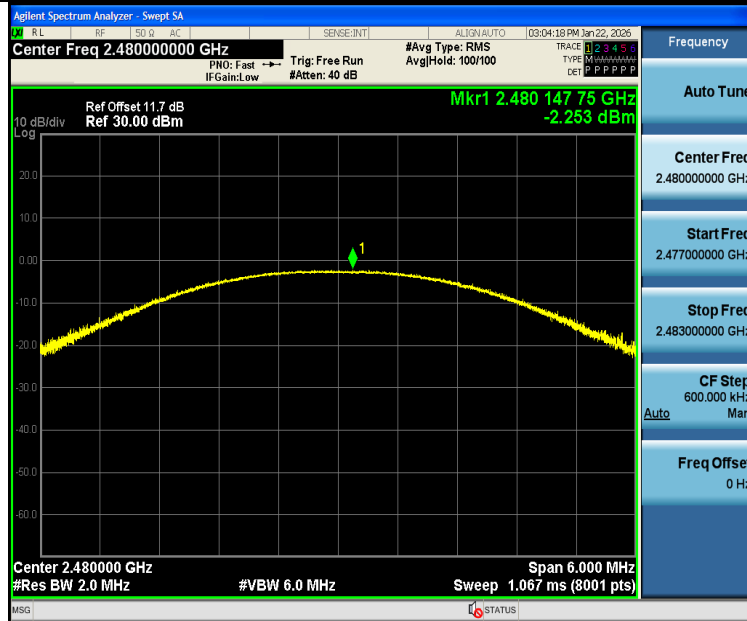
9.3 Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.61	≤30	PASS
BLE_1M	Ant1	2440	1.2	≤30	PASS
BLE_1M	Ant1	2480	-2.25	≤30	PASS
BLE_2M	Ant1	2402	2.53	≤30	PASS
BLE_2M	Ant1	2440	1.2	≤30	PASS
BLE_2M	Ant1	2480	-2.39	≤30	PASS

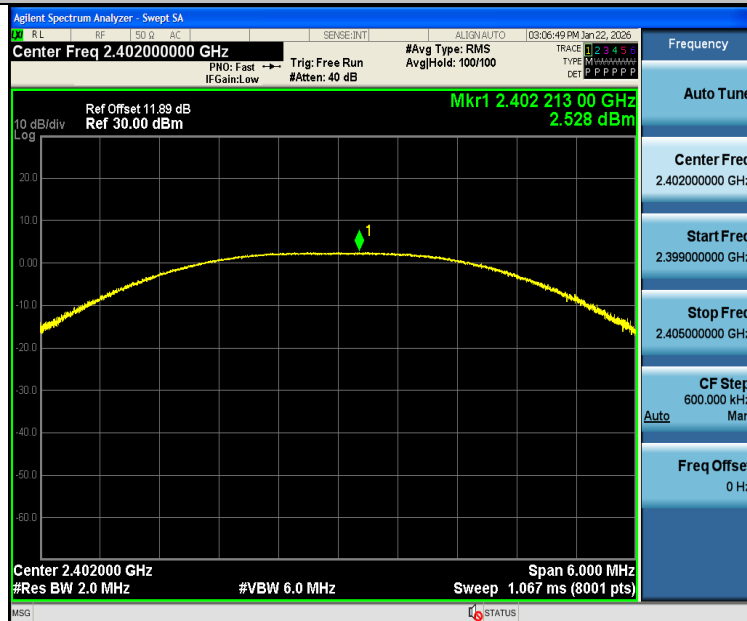


Test Graphs:

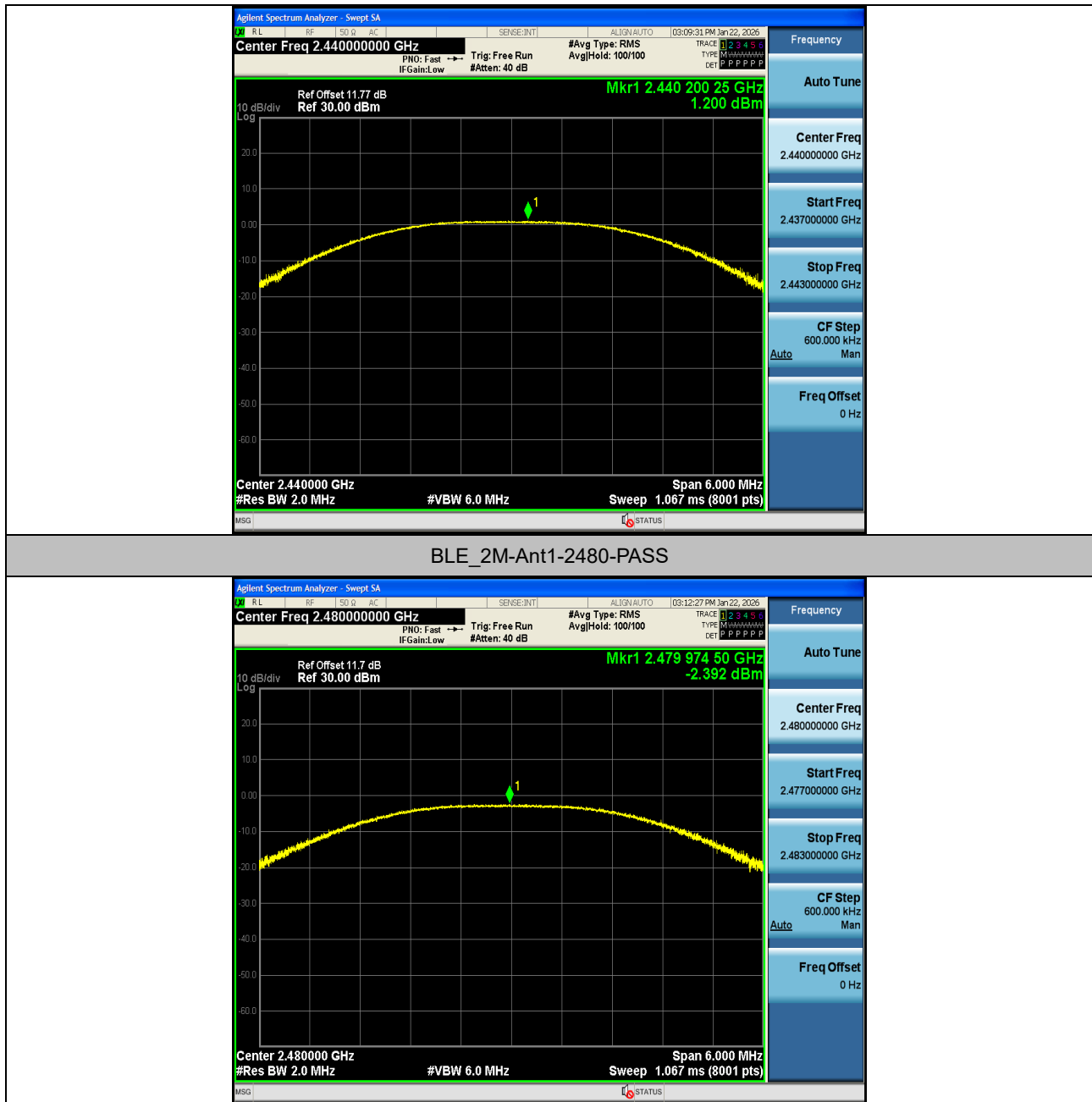




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS





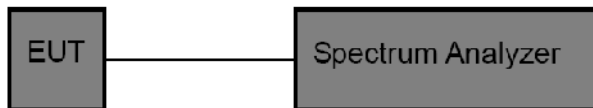
10 Power Spectral density

Test Requirement	: FCC CFR47 Part 15 Section 15.247
Test Method	: ANSI C63.10-2020
Test Limit	: Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

10.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

10.2 Test Setup

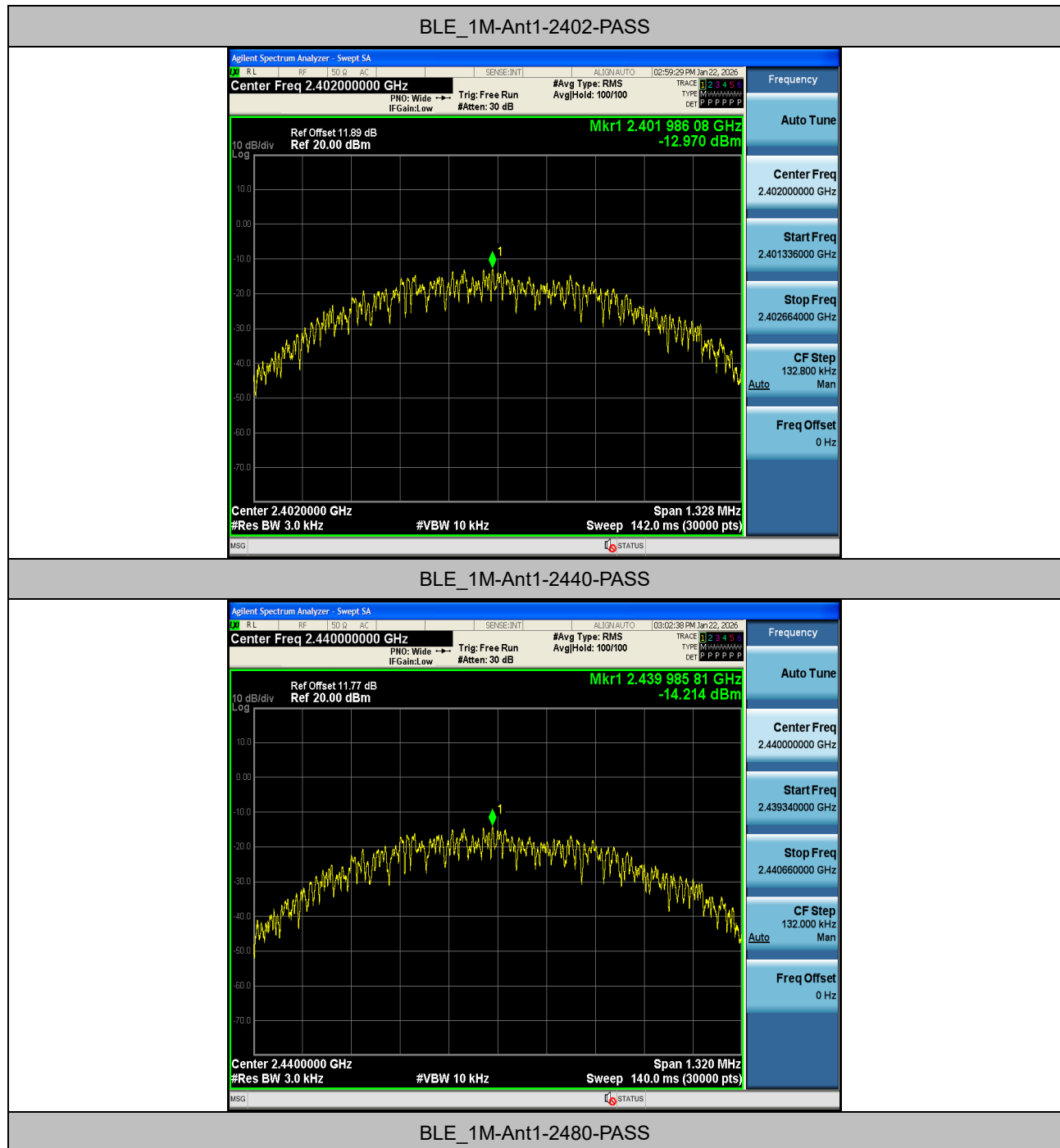


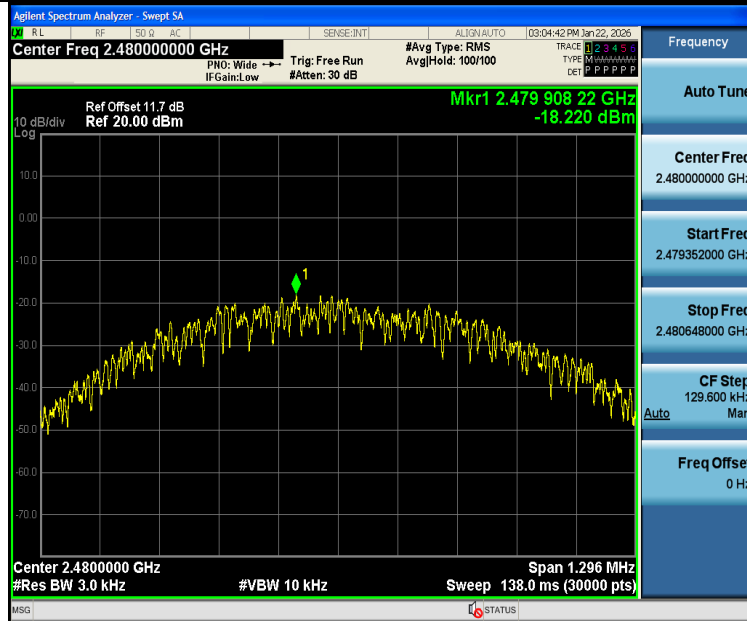
10.3 Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.97	≤8.00	PASS
BLE_1M	Ant1	2440	-14.21	≤8.00	PASS
BLE_1M	Ant1	2480	-18.22	≤8.00	PASS
BLE_2M	Ant1	2402	-15.66	≤8.00	PASS
BLE_2M	Ant1	2440	-17.04	≤8.00	PASS
BLE_2M	Ant1	2480	-20.6	≤8.00	PASS

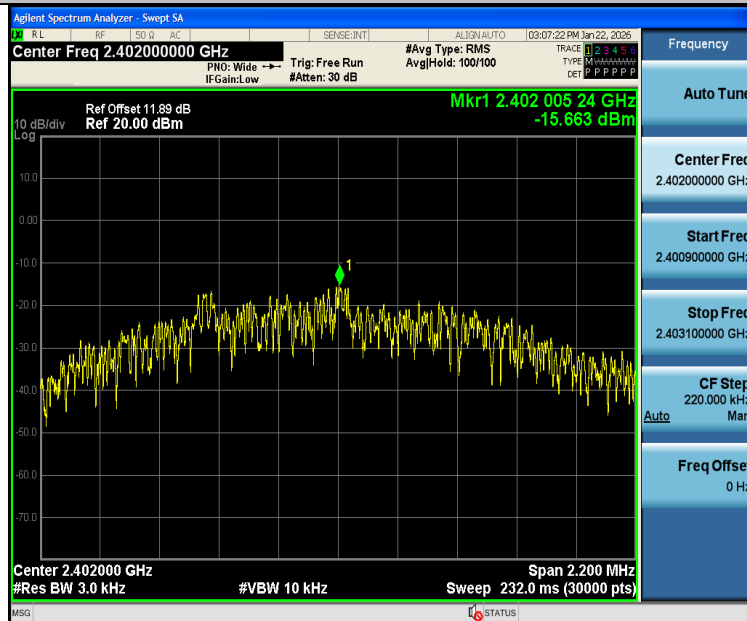


Test Graphs:

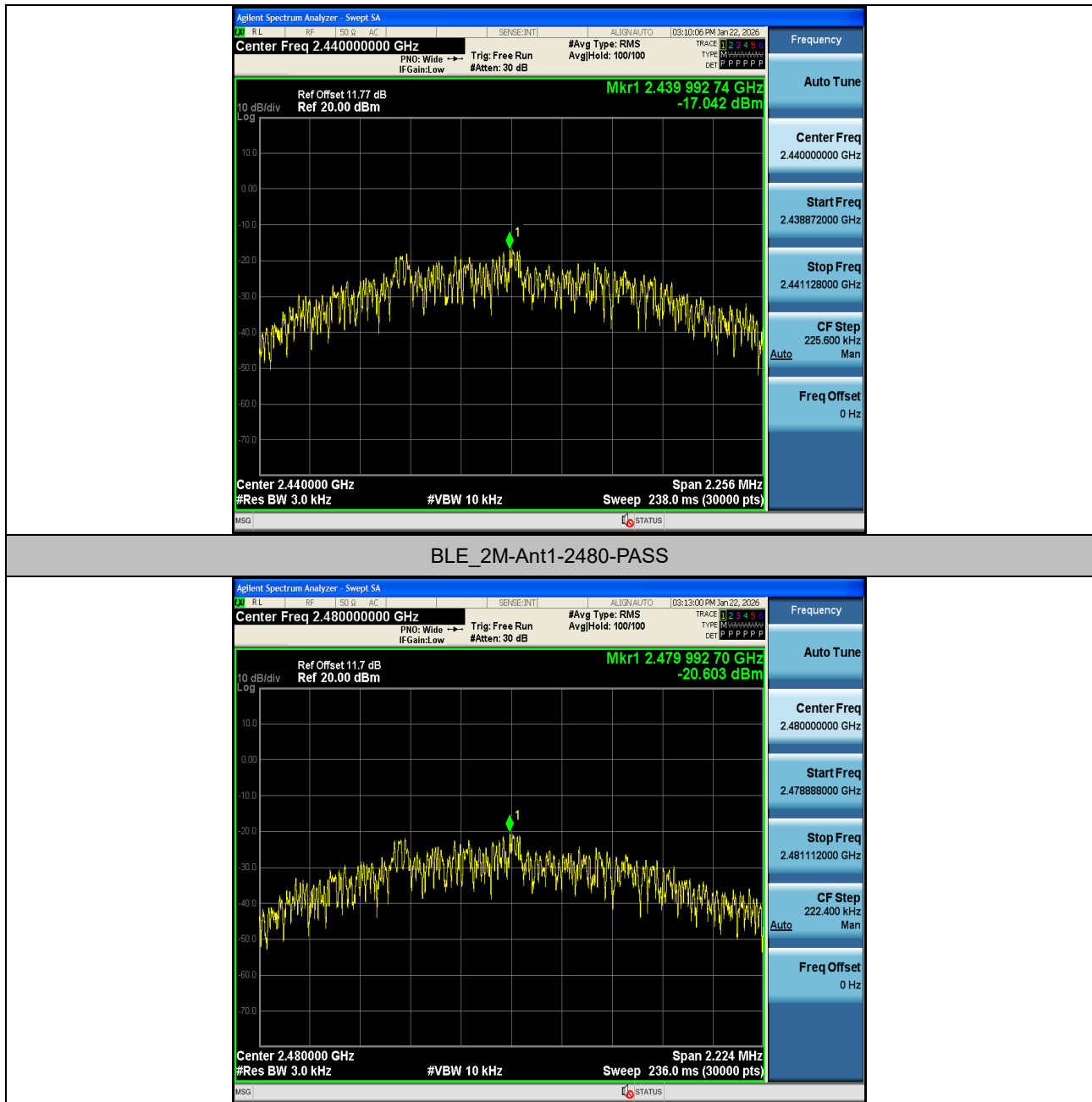




BLE_2M-Ant1-2402-PASS



BLE_2M-Ant1-2440-PASS





11 Antenna Application

11.1 Antenna Requirement

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 transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2 Result

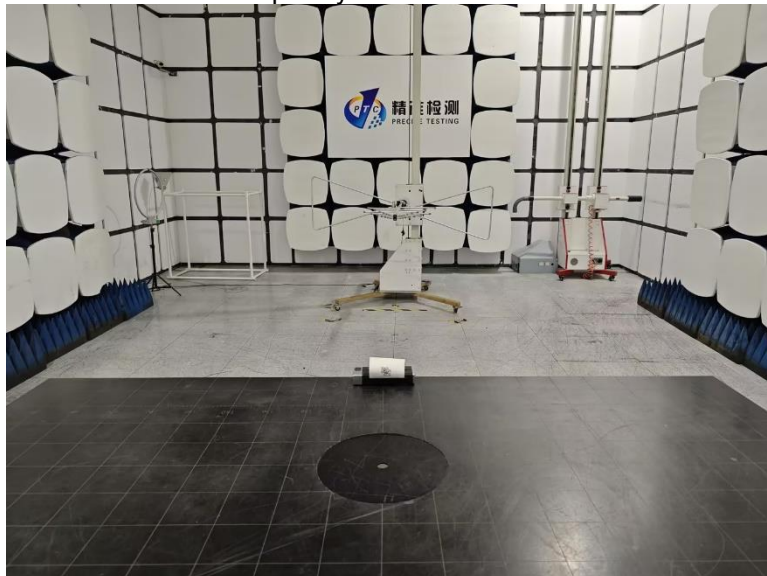
The EUT'S antenna, permanent attached antenna, is internal PCB antenna. The antenna's gain is 1.7 dBi and meets the requirement.

12 Test Setup

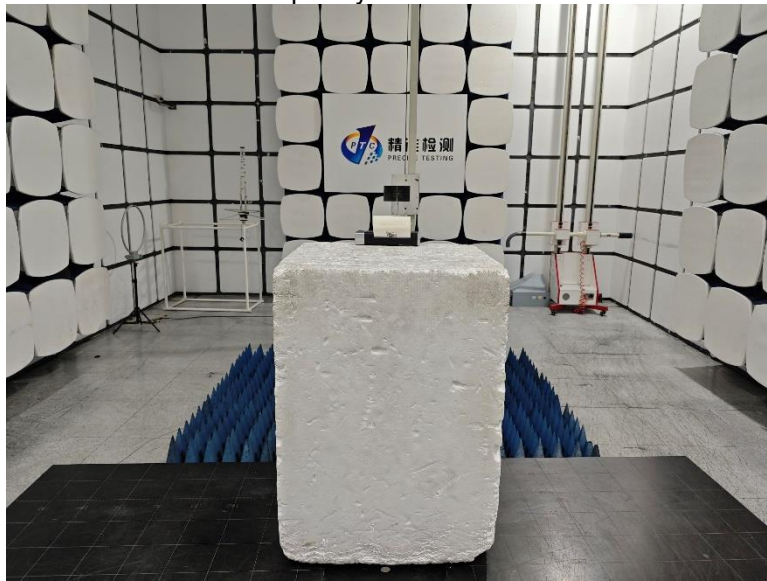
Conducted Emissions



Radiated Spurious Emissions
Test Frequency From 30MHz to 1GHz



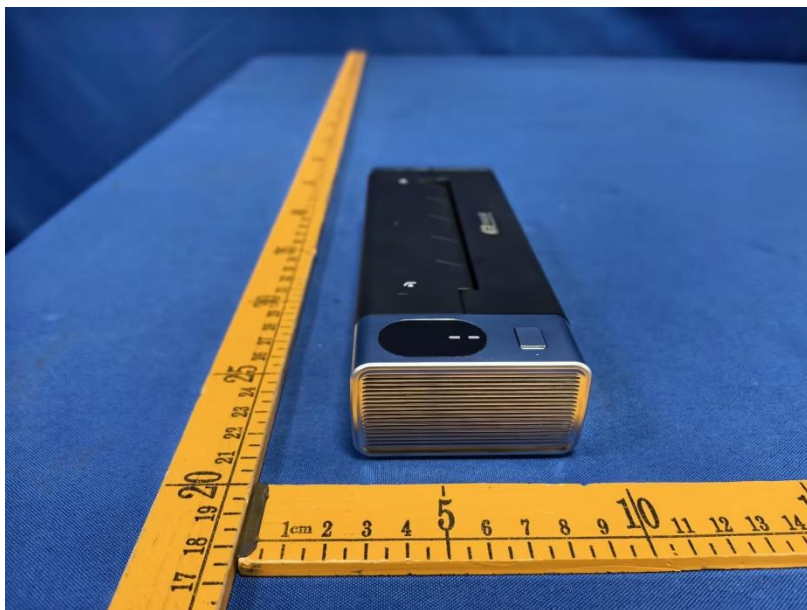
Test frequency from Above 1GHz





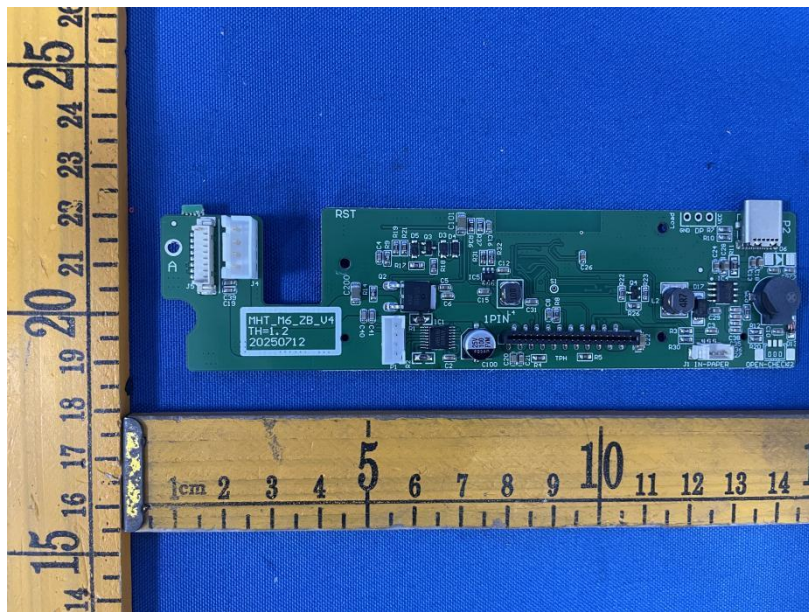
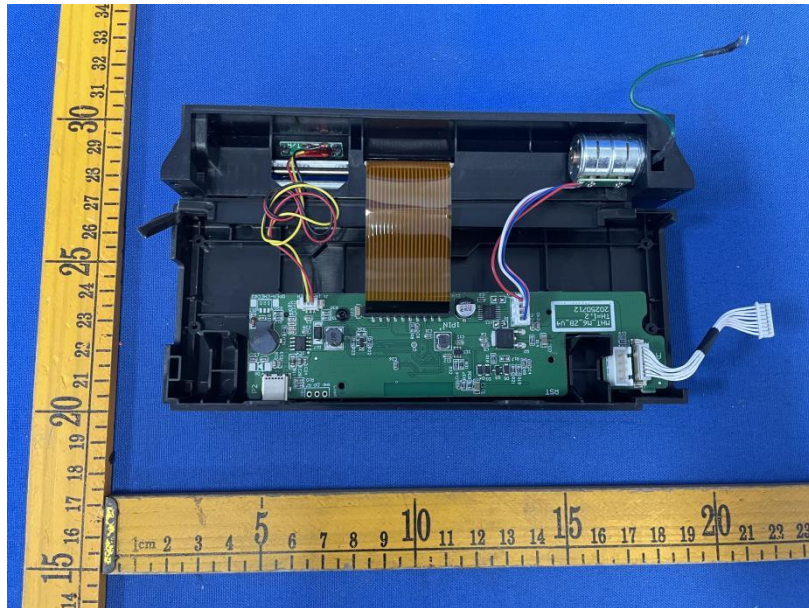
13 EUT Photos

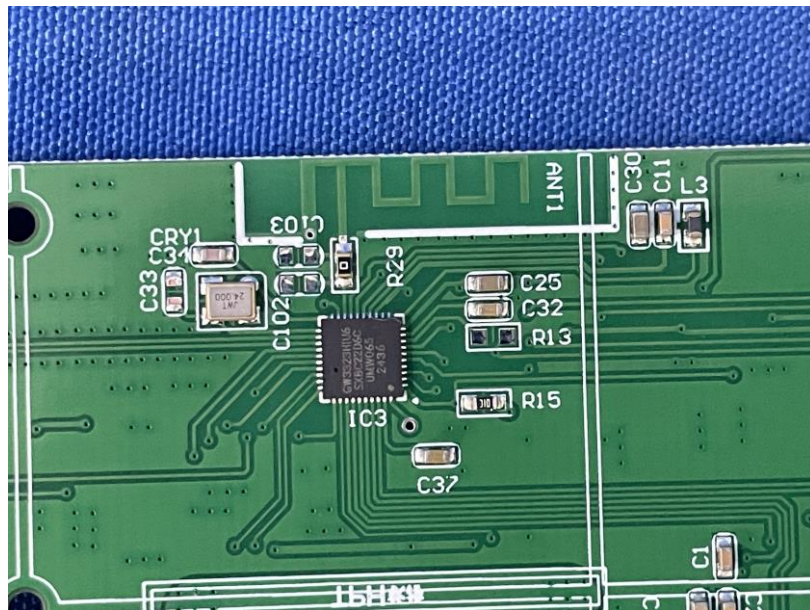
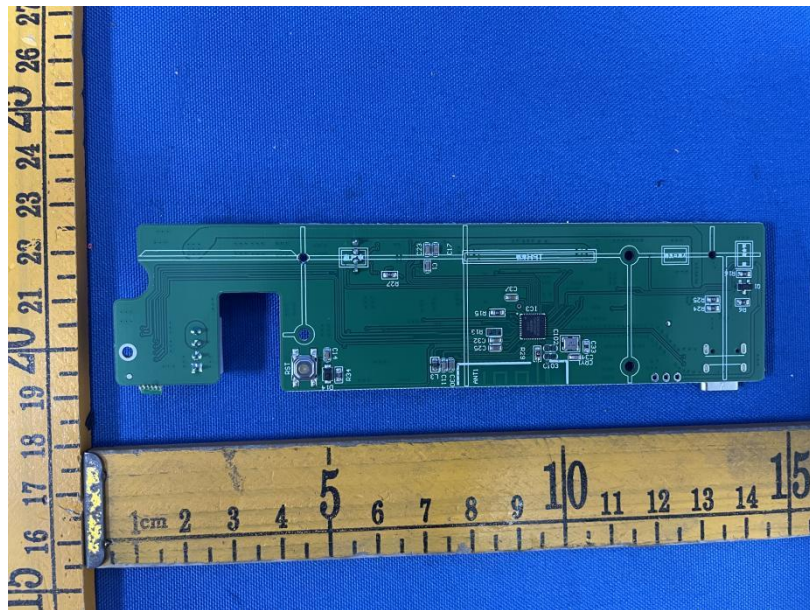


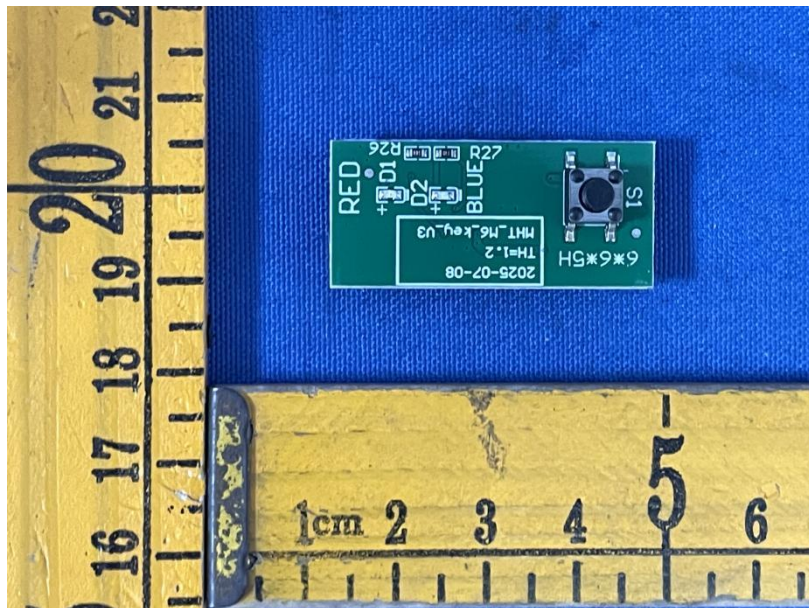
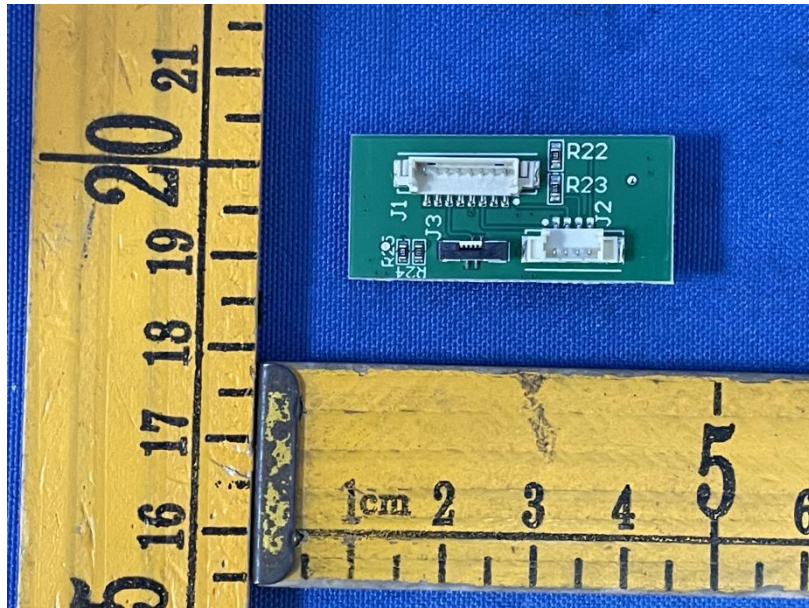














*****THE END REPORT*****



Report No.: PTC26010517401E-FC01