

Test Report

Verified code: 818329

Report No.: E20240827121501-3EN

Customer: GUANGZHOU RANTION TECHNOLOGY CO., LTD.

Address: Room 7002 and 7003,7th Floor,Digital Entertainment Industrial Park,Greater Bay Area,No. 28 Huangpu Park West Road,Huangpu District,Guangzhou,China.

Sample Name: Donner OURA Piano

Sample Model: R300

Receive Sample Date: Sep.09,2024

Test Date: Sep.14,2024 ~ Nov.18,2024

Reference Document: 47 CFR, FCC Part 15 Subpart C
RADIO FREQUENCY DEVICES:Subpart C—Intentional Radiators

Test Result: Pass

Prepared by: Wen Wenwen
Wen Wenwen

Reviewed by: Jiang Tao
Jiang Tao

Approved by: Xiao Liang
Xiao Liang

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-12-02

GRG METROLOGY & TEST GROUP CO., LTD.

Address: No.163, Pingyun Road, West of Huangpu Avenue, Guangzhou, Guangdong, China
Tel: (+86) 400-602-0999 FAX: (+86) 020-38698685 Web: <http://www.grgtest.com>



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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20240827121501-3EN	Original Issue	2024-11-25

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1. TEST RESULT SUMMARY

Technical Requirements		
47 CFR, FCC Part 15 Subpart C 15.247 ANSI C63.10-2020 KDB 558074 D01 15.247 measurement guidance v05r02		
Limit / Severity	Item	Result
§15.203	Antenna Requirement	Pass
§15.207(a)	Conducted Emission	Pass
§15.247(d)&15.205& 15.209	Radiated Spurious Emission	Pass
§15.247(b)(3)	Maximum Peak Output Power	Pass
§15.247(e)	Power Spectral Density	Pass
§15.247(a)(2)	6dB bandwidth	Pass
§15.247(d)	Conducted band edges and Spurious Emission	Pass
§15.247(d)&15.205& 15.209	Restricted bands of operation	Pass

Note:

- 1) The antenna is PCB printed antenna. The max gain of antenna is 1.9dBi.which accordance 15.203.is considered sufficient to comply with the provisions of this section.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: GUANGZHOU RANTION TECHNOLOGY CO., LTD.
Address: Room 7002 and 7003,7th Floor,Digital Entertainment Industrial Park,Greater Bay Area,No. 28 Huangpu Park West Road,Huangpu District,Guangzhou,China.

2.2 MANUFACTURER

Name: GUANGZHOU RANTION TECHNOLOGY CO., LTD.
Address: Room 7002 and 7003,7th Floor,Digital Entertainment Industrial Park,Greater Bay Area,No. 28 Huangpu Park West Road,Huangpu District,Guangzhou,China.

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: Donner OURA Piano

Product Model: R300

Trade Name: DONNER

Additional Model: S100, R100, S200, R200, S300, S400, R400

Model difference descriptions: The main model no. R300 and the family models no. S100, R100, S200, R200, S300, S400, R400 have the same technical construction-including circuit-diagram, PCB-LAYOUT, hardware version and software version identical, the model names are different, which does not affect electromagnetic compatibility and electrical safety performance.

Power Supply: DC 12V by adapter

Adapter: Model: GQ36-120300-AX
Input: 100-240V~ 50/60Hz 1.0A Max, Output: 12V  3.0A 36.0W

FCC ID: 2AV7N-OURA

Frequency Band: 2402MHz-2480MHz

Transmit Power: GFSK for 1Mbps: -1.31dBm
GFSK for 2Mbps: -1.28dBm

Modulation type: GFSK for 1Mbps
GFSK for 2Mbps

Channel space: 2MHz

Antenna Type: PCB printed antenna with 1.9dBi (Max.)

Temperature Range: 0℃ ~ 38℃

Hardware Version: V1.1

Software Version: V1.1

Sample No: E20240827121501-0001, E20240827121501-0002

Note: The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity

and completeness of the above data and information and the validity of the results and/or conclusions. After evaluated the difference descriptions of the models, the test model is R300.

2.4 CHANNELLIST

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

* is the test frequency

2.5 TEST OPERATION MODE

Mode No.	Description of the modes
1	Bluetooth (BLE) fixed frequency transmitting

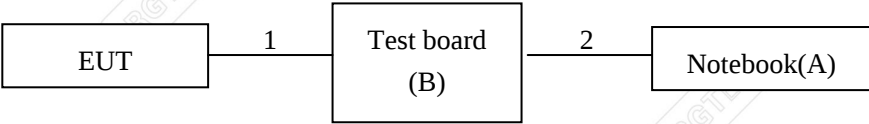
2.6 LOCAL SUPPORTIVE

No.	Name of Equipment	Manufacturer	Model	Serial Number
A	Notebook	DELL	Latitude3300	2C6CFW2
B	Test board	/	/	/

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	Serial cable	1	No	0	0.2m
2	USB cable	1	No	0	1.0m

Note: The notebook is just used to produce fixed frequency transmitting.

2.7 CONFIGURATION OF SYSTEM UNDER TEST



Test software:

Software version	Test level
FCC_V2.24	2402MHz: 0 2440MHz: 0 2480MHz: 0

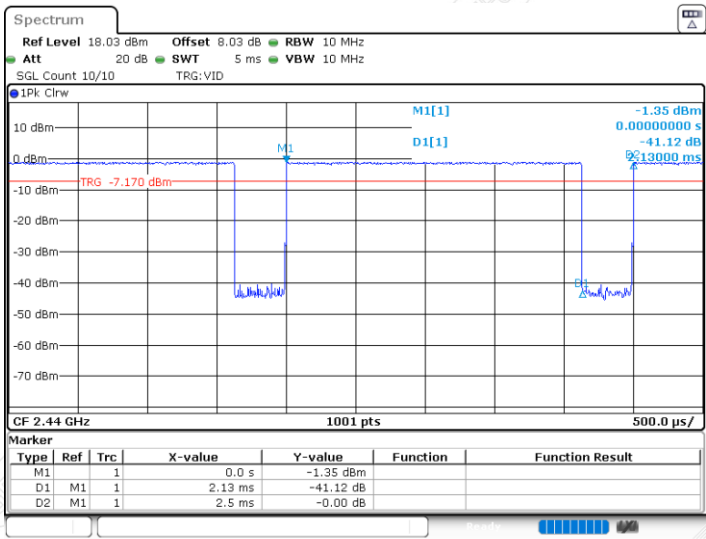
2.8 DUTY CYCLE

Environment: 25.3°C/59%RH/101.0kPa
Tested By: Qin tingting

Voltage:AC 120V/60Hz
Date: 2024-09-14

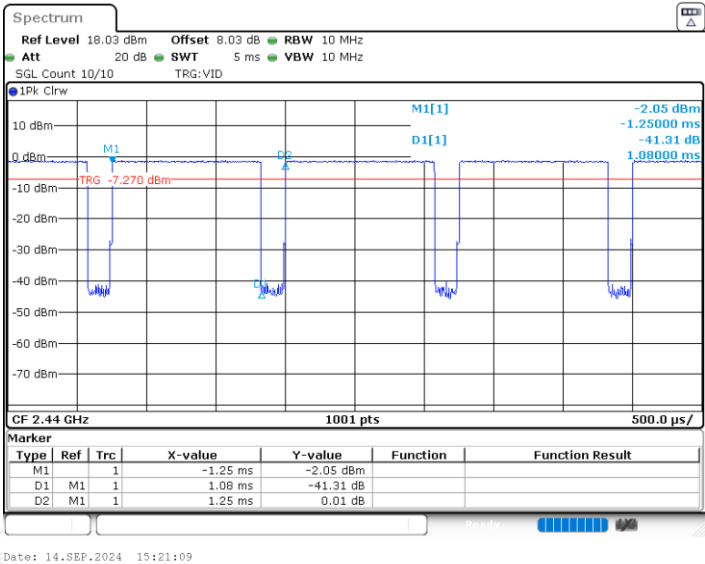
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	DC [%]	T [s]
BLE_1M	Ant1	2402	2.13	2.50	85.20	0.00213
BLE_2M	Ant1	2402	1.08	1.25	86.40	0.00108

BLE_1M_2402MHz



Date: 14.SEP.2024 15:16:15

BLE_2M_2402MHz



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3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add.: No.1301 Guangang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China

P.C.: 518110

Tel : 0755-61180008

Fax: 0755-61180008

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA A2LA(Certificate #2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

USA FCC (Registration Number: 759402, Designation Number:CN1198)

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4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
Radiated Emission	X	9kHz～30MHz	4.4dB ¹⁾
	Y	9kHz～30MHz	4.4dB ¹⁾
	Z	9kHz～30MHz	4.4dB ¹⁾
	Horizontal	30MHz～200MHz	4.6dB ¹⁾
		200MHz～1000MHz	4.8dB ¹⁾
		1GHz～18GHz	5.0dB ¹⁾
		18GHz～26.5GHz	5.2dB ¹⁾
	Vertical	30MHz～200MHz	4.7dB ¹⁾
		200MHz～1000MHz	4.7dB ¹⁾
		1GHz～18GHz	5.1dB ¹⁾
		18GHz～26.5GHz	5.4dB ¹⁾
Conduction Emission		150kHz～30MHz	3.3dB ¹⁾

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.80dB
Power spectral density conducted	0.80dB
Occupied channel bandwidth	0.40dB
Unwanted emission, conducted	0.70dB
Humidity	6.0%
Temperature	2.0°C

Note:

¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95%.

This uncertainty represents an expanded uncertainty factor of $k=2$.

5. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Radiated Spurious Emission & Restricted bands of operation				
Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-56	2025-05-07
Bi-log Antenna	Schwarzbeck	VULB9160	VULB9160-3402	2025-09-11
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2025-06-15
Test Receiver	R&S	ESR26	101758	2025-09-10
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2025-08-24
Amplifier	SHIRONG ELECTRONIC	DLNA-30M1G-G40	20200928001	2025-01-30
Amplifier	Tonscend	TAP01018048	AP20E8060075	2025-03-01
Amplifier	Tonscend	TAP184050	AP20E806071	2025-03-01
Amplifier	SHIRONG ELECTRONIC	DLNA-1G18G-G40	20200928005	2025-07-19
Test S/W	Tonscend	JS32-RE/5.0.0		
6dB Bandwidth & Conducted band edges and Spurious Emission & Power Spectral Density				
Spectrum Analyzer	R&S	FSV30	1321.3008K30-104381-rH	2024-10-13
Automatic control unit	TONSCEND	JS0806-2	21B8060365	2024-12-28
BT/WIFI System	Tonscend	JS1120-3		
Maximum peak output power				
Pulse power sensor	Anristu	MA2411B	1126150	2025-01-11
Power meter	Anristu	ML2495A	1204003	2025-01-11
Conducted Emissions				
EMI TEST RECEIVER	R&S	ESCI	100783	2025-07-19
LISN(EUT)	R&S	ENV216	101543	2025-07-10
Test S/W	EZ	CCS-3A1-CE		

Note: The calibration cycle of the above instruments is 12 months.

6. RADIATED SPURIOUS EMISSIONS

6.1 LIMITS

In any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required.

Frequency (MHz)	Quasi-peak($\mu\text{V/m}$)	Measurement distance(m)	Quasi-peak(dB $\mu\text{V/m}$)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

NOTE:

- (1) The emission limits for the ranges 9-90kHz and 110-490kHz are based on measurements employing a linear average detector.
- (2) The lower limit shall apply at the transition frequencies.
- (3) Above 18GHz test distance is 1m, so the Peak Limit= $74+20*\log(3/1)=83.54$ (dB $\mu\text{V/m}$).
The Avg Limit= $54+20*\log(3/1)=63.54$ (dB $\mu\text{V/m}$).

6.2 TEST PROCEDURES

a) Sequence of testing 9kHz to 30MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate fixed frequency transmitting conditions.
- The EUT is power by battery.
- The measurement distance is 3meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 360 °.
- The antenna height is 1.0 meter.
- The antenna is polarized X, Y and Z.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- Identified emissions during the pre measurement the software maximizes by rotating the turntable

position (0 ° to 360 °) and by rotating the elevation axes (0 ° to 360 °).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QP detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

b) Sequence of testing 30MHz to 1GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate fixed frequency transmitting conditions.

--- The EUT is power by battery.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

--- The turntable rotates from 0 ° to 360 °.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 4 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of pre measurement the software maximize the peaks by changing turntable rotates from 0 ° to 360 ° and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

c) Sequence of testing 1GHz to 18GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate fixed frequency transmitting conditions.

--- The EUT is power by battery.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 °to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 4 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of pre measurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

d) Sequence of testing above 18GHz**Setup:**

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- Auxiliary equipment and cables were positioned to simulate fixed frequency transmitting conditions.
- The EUT is power by battery.
- The measurement distance is 1 meter.
- The EUT was set into operation.

Pre measurement:

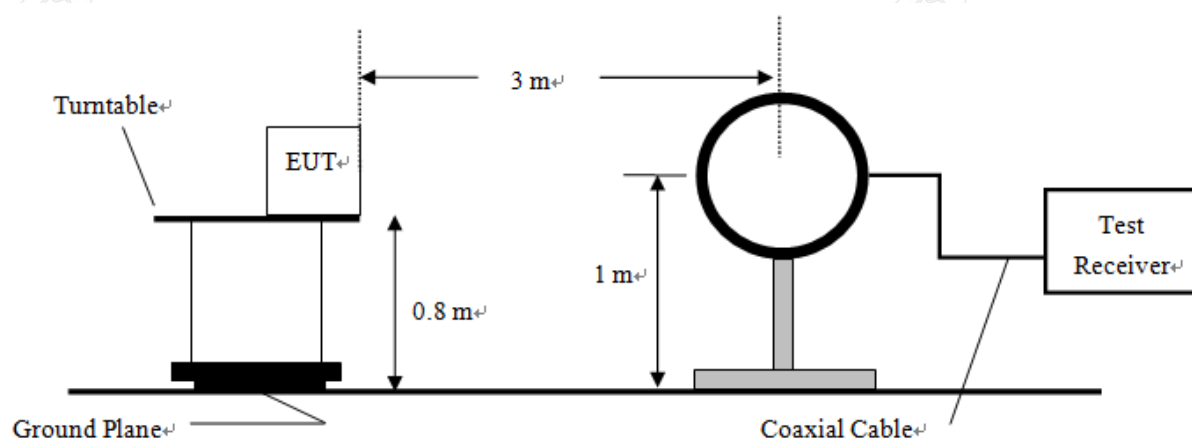
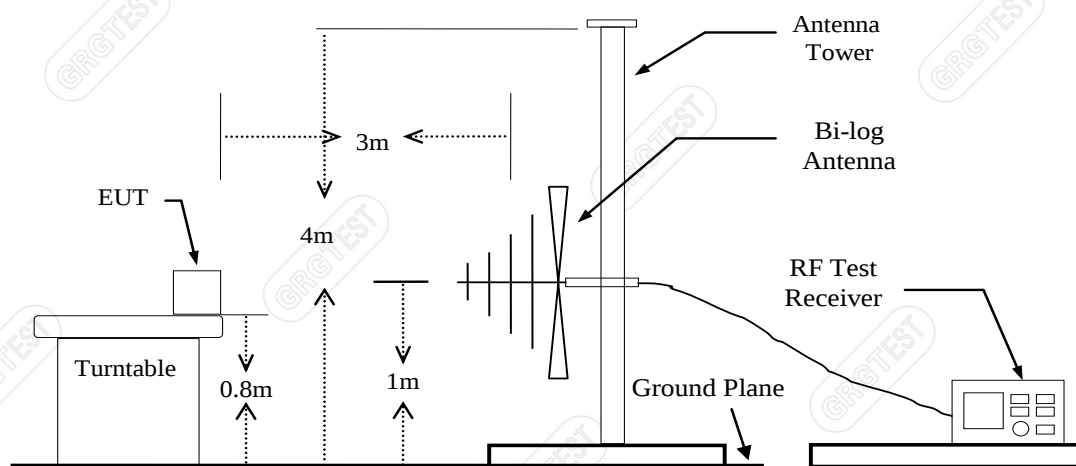
- The turntable rotates from 0 °to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height scan range is 1 meter to 4 meter.
- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of pre measurement the software maximize the peaks by changing turntable rotates from 0 °to 360 °and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

NOTE:

- (1).The frequency from 9kHz to 150kHz, Set RBW=300Hz(for Peak&AVG), VBW=300Hz(for Peak&AVG). The frequency from 150kHz to 30MHz, Set RBW=9kHz, VBW=9kHz, (for QP Detector).
- (2).The frequency from 30MHz to 1GHz, Set RBW=120kHz, VBW=300kHz, (for QP Detector).
- (3).The frequency above 1GHz, for Peak detector: Set RBW=1MHz,VBW=3MHz.
- (4). The frequency above 1GHz, for Avg detector: Set RBW=1MHz,if the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e.,10kHz) but not less than 10 Hz. If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.8.

6.3 TEST SETUP**Figure 1. 9kHz to 30MHz radiated emissions test configuration****Figure 2. 30MHz to 1GHz radiated emissions test configuration**

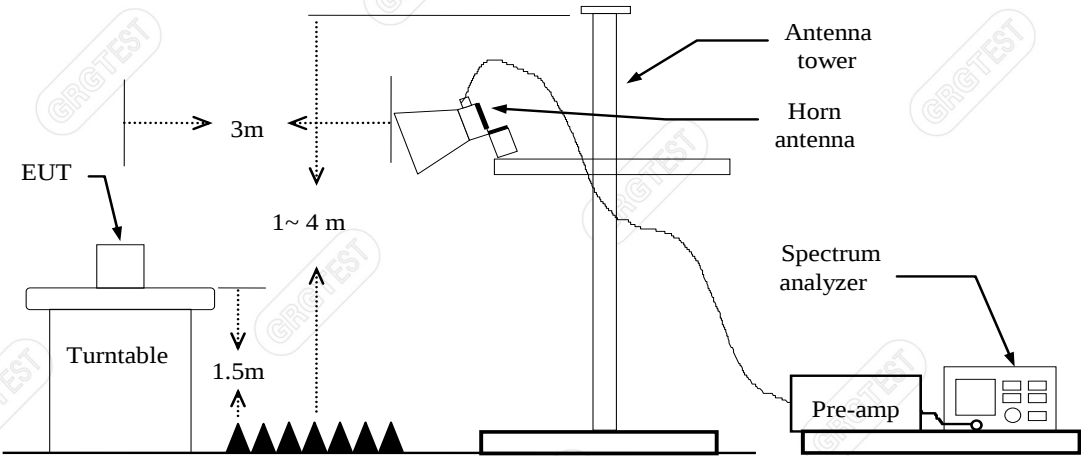


Figure 3. 1GHz to 18GHz radiated emissions test configuration

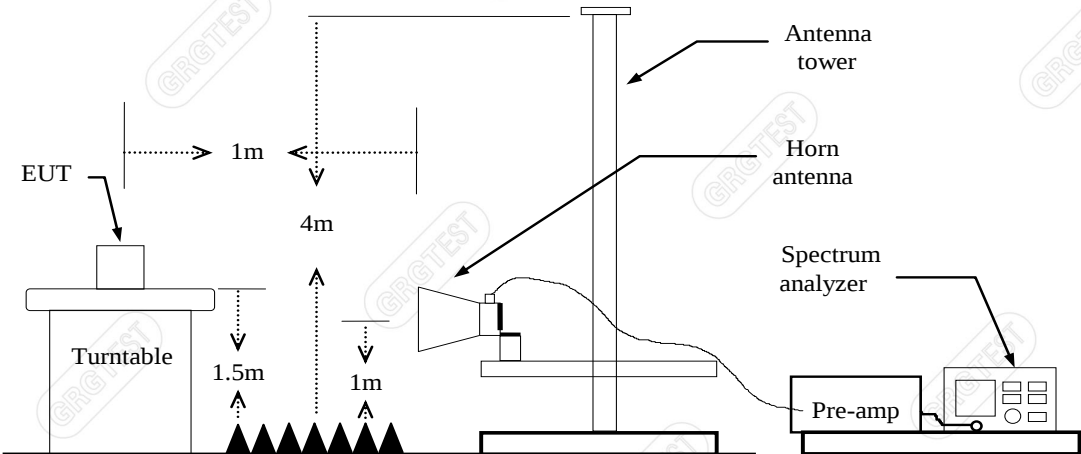


Figure 4. 18GHz to 26.5GHz radiated emissions test configuration

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6.4 DATA SAMPLE**30MHz to 1GHz**

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
xxx	86.5096	67.55	33.83	-33.72	40.00	6.17	QP	200	118	Horizontal	PASS

Frequency (MHz)

= Emission frequency in MHz

Reading (dBuV)

= Uncorrected Analyzer / Receiver reading

Factor (dB)

= Antenna factor + Cable loss – Amplifier gain

Level (dBuV/m)

= Reading (dBuV) + Factor (dB)

Limit (dBuV/m)

= Limit stated in standard

Margin (dB)

= Limit (dBuV/m) - Level (dBuV/m)

QP

= Quasi-peak Reading

1GHz-18GHz

No.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal

Above 18GHz

NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
xxx	xxx	62.46	45.31	35.77	-17.15	74	38.23	100	19	Horizontal

Frequency (MHz)

= Emission frequency in MHz

Reading (dBuV/m)

= Uncorrected Analyzer / Receiver reading

Factor (dB)

= Antenna factor + Cable loss – Amplifier gain

Level for 1m (dBuV/m)

= Reading (dBuV/m) + Factor (dB)

Level for 3m (dBuV/m)

= Level for 1m (dBuV/m) + 20*log(1/3)

Limit (dBuV/m)

= Limit stated in standard

Margin (dB)

= Limit (dBuV/m) – Level (dBuV/m)

Polarity

= Antenna polarization

Peak

= Peak Reading

AVG

= Average Reading

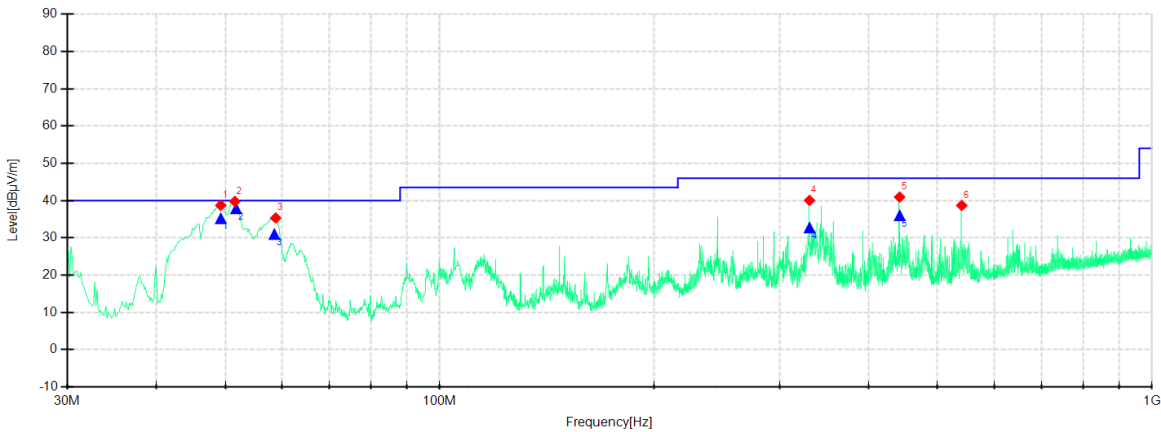
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6.5 TEST RESULTS

Below 1GHz

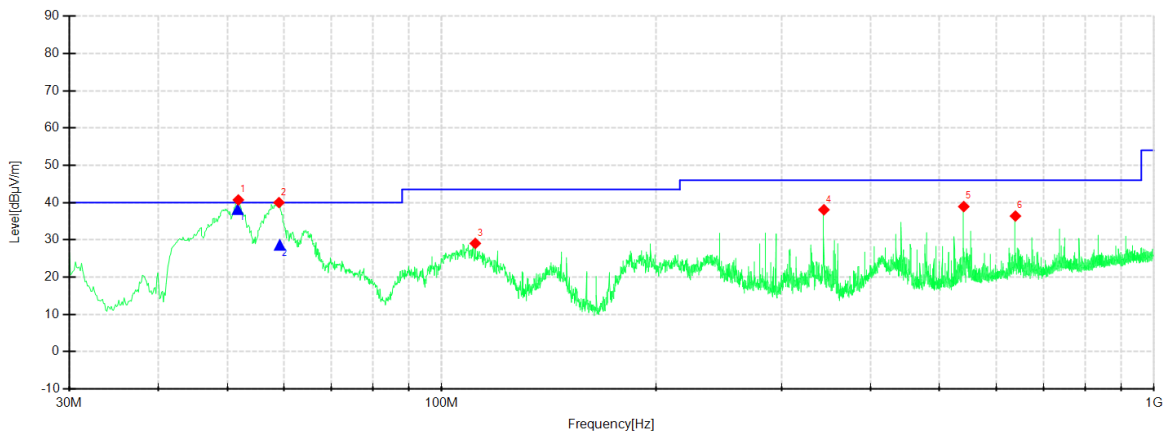
Note: Pre-scan all modes , only the worst case(TX_BLE_2M_2402MHz) is recorded, in this report.

Product	Donner OURA Piano	Model No.	R300
Power supply:	AC 120V/60Hz	Environmental Conditions:	25.5℃/53%RH/101.0kPa
Test Engineer:	Wen wenwen	Test Date:	2024-10-27
Sample No:	E20240827121501-0002	/	/



NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	49.2812	67.57	38.70	-28.87	40.00	1.30	PK	100	360	Horizontal	PASS
2	51.5852	68.70	39.76	-28.94	40.00	0.24	PK	200	0	Horizontal	PASS
3	58.8611	64.76	35.32	-29.44	40.00	4.68	PK	100	360	Horizontal	PASS
4	330.4951	66.45	40.03	-26.42	46.00	5.97	PK	100	19	Horizontal	PASS
5	442.3015	63.56	40.92	-22.64	46.00	5.08	PK	100	261	Horizontal	PASS
6	540.6476	59.27	38.67	-20.60	46.00	7.33	PK	200	60	Horizontal	PASS

Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict	
1	49.2833	-28.87	64.03	35.16	40.00	4.84	140	360	Horizontal	PASS	
2	51.7838	-28.94	66.78	37.84	40.00	2.16	200	336.7	Horizontal	PASS	
3	58.5979	-29.44	60.35	30.91	40.00	9.09	102	226.7	Horizontal	PASS	
4	330.5668	-26.42	59.10	32.68	46.00	13.32	100	336.5	Horizontal	PASS	
5	442.3719	-22.64	58.60	35.96	46.00	10.04	100	337.7	Horizontal	PASS	



NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	51.8277	69.66	40.70	-28.96	40.00	-0.70	PK	200	152	Vertical	PASS
2	59.1036	69.45	39.99	-29.46	40.00	0.01	PK	100	148	Vertical	PASS
3	111.4902	59.52	29.04	-30.48	43.50	14.46	PK	200	20	Vertical	PASS
4	344.0768	64.10	38.06	-26.04	46.00	7.94	PK	100	148	Vertical	PASS
5	540.6476	59.52	38.92	-20.60	46.00	7.08	PK	100	135	Vertical	PASS
6	638.9936	55.31	36.38	-18.93	46.00	9.62	PK	100	233	Vertical	PASS

Final Data List											
NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV/m]	Level [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict	
1	51.7122	-28.96	67.12	38.16	40.00	1.84	199	337.6	Vertical	PASS	
2	59.2482	-29.46	58.05	28.59	40.00	11.41	173	103.4	Vertical	PASS	

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 The IF bandwidth of Receiver between 30MHz to 1GHz was 120kHz.
- 4 If the margin of the pre-test results is greater than 6dB, it meets the requirements of quasi peak or average values, and final testing is no longer required.

1GHz-18GHz:

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Product	Donner OURA Piano	Model No.	R300
Sample No:	E20240827121501-0002	/	/

Mode: TX/ BLE_1M
Lowest Frequency (2402MHz)
Environment: 23.1°C/48%RH/101.0kPa
Tested By: Jiang tao

Voltage:AC 120V/60Hz
Date: 2024-11-18

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1376.4000	48.92	41.05	-7.87	74.00	32.95	100	144	Horizontal
2	2173.6000	50.03	46.11	-3.92	74.00	27.89	200	91	Horizontal
3	2498.4000	47.65	47.46	-0.19	74.00	26.54	100	303	Horizontal
4	5049.0000	48.42	42.37	-6.05	74.00	31.63	100	320	Horizontal
5	8053.5000	42.85	46.35	3.50	74.00	27.65	200	191	Horizontal
6	13113.0000	35.10	50.94	15.84	74.00	23.06	200	110	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13113.0000	15.84	25.38	41.22	54.00	12.78	200	110	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1837.0000	48.39	42.55	-5.84	74.00	31.45	100	1	Vertical
2	2934.6000	47.41	46.92	-0.49	74.00	27.08	100	104	Vertical
3	4366.5000	50.94	41.59	-9.35	74.00	32.41	100	19	Vertical
4	6531.0000	46.18	45.20	-0.98	74.00	28.80	100	19	Vertical
5	9607.5000	46.04	53.35	7.31	74.00	20.65	100	348	Vertical
6	14712.0000	36.59	54.40	17.81	74.00	19.60	100	216	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9608.3325	7.31	41.48	48.79	54.00	5.21	100	0	Vertical
2	14712.0000	17.81	25.61	43.42	54.00	10.58	100	216	Vertical

Mode: TX/ BLE_1M
Middle Frequency (2440MHz)
Environment: 23.1℃/48%RH/101.0kPa
Tested By: Jiang tao

Voltage:AC 120V/60Hz
Date: 2024-11-18

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1431.2000	48.62	40.60	-8.02	74.00	33.40	200	178	Horizontal
2	2210.2000	50.59	47.16	-3.43	74.00	26.84	200	86	Horizontal
3	2847.2000	48.76	46.96	-1.80	74.00	27.04	200	359	Horizontal
4	5062.5000	49.11	43.00	-6.11	74.00	31.00	200	301	Horizontal
5	7336.5000	44.46	45.84	1.38	74.00	28.16	100	220	Horizontal
6	13089.0000	35.30	51.04	15.74	74.00	22.96	100	220	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13089.0000	15.74	26.79	42.53	54.00	11.47	100	220	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1519.8000	48.25	40.75	-7.50	74.00	33.25	200	335	Vertical
2	2306.4000	47.82	44.20	-3.62	74.00	29.80	100	191	Vertical
3	5443.5000	47.84	42.39	-5.45	74.00	31.61	100	207	Vertical
4	7180.5000	45.12	45.80	0.68	74.00	28.20	100	262	Vertical
5	9760.5000	45.87	54.64	8.77	74.00	19.36	100	339	Vertical
6	14707.5000	35.93	53.95	18.02	74.00	20.05	100	207	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9759.9375	8.77	43.82	52.59	54.00	1.41	100	176	Vertical
2	14707.5000	18.02	25.37	43.39	54.00	10.61	100	207	Vertical

Mode: TX/ BLE_1M
Highest Frequency (2480MHz)
Environment: 23.1℃/48%RH/101.0kPa
Tested By: Jiang tao

Voltage:AC 120V/60Hz
Date: 2024-11-18

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1393.4000	48.08	40.17	-7.91	74.00	33.83	100	209	Horizontal
2	2246.6000	49.86	46.32	-3.54	74.00	27.68	100	51	Horizontal
3	2996.2000	48.34	47.89	-0.45	74.00	26.11	200	89	Horizontal
4	4683.0000	49.75	42.03	-7.72	74.00	31.97	200	111	Horizontal
5	6645.0000	46.33	45.45	-0.88	74.00	28.55	100	112	Horizontal
6	13098.0000	35.33	51.47	16.14	74.00	22.53	200	151	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13098.0000	16.14	26.81	42.95	54.00	11.05	200	151	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1514.4000	48.98	41.53	-7.45	74.00	32.47	200	77	Vertical
2	2504.6000	47.56	46.90	-0.66	74.00	27.10	200	341	Vertical
3	3210.0000	52.51	39.62	-12.89	74.00	34.38	100	152	Vertical
4	6558.0000	46.05	44.93	-1.12	74.00	29.07	100	99	Vertical
5	9919.5000	45.26	53.58	8.32	74.00	20.42	100	336	Vertical
6	14712.0000	35.48	53.29	17.81	74.00	20.71	100	22	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9920.0725	8.32	43.42	51.74	54.00	2.26	100	338.2	Vertical
2	14711.5700	17.81	26.01	43.82	54.00	10.18	100	22	Vertical

Mode: TX/ BLE_2M
Lowest Frequency (2402MHz)
Environment: 23.1°C/48%RH/101.0kPa
Tested By: Jiang tao

Voltage:AC 120V/60Hz
Date: 2024-11-18

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1327.0000	48.52	40.52	-8.00	74.00	33.48	200	236	Horizontal
2	1893.8000	49.21	44.96	-4.25	74.00	29.04	200	0	Horizontal
3	2169.8000	51.19	47.20	-3.99	74.00	26.80	200	60	Horizontal
4	4321.5000	50.42	40.92	-9.50	74.00	33.08	200	303	Horizontal
5	7344.0000	45.15	46.63	1.48	74.00	27.37	200	263	Horizontal
6	13099.5000	35.71	51.92	16.21	74.00	22.08	200	86	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13099.5000	16.21	26.31	42.52	54.00	11.48	200	86	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1537.2000	49.33	41.68	-7.65	74.00	32.32	200	340	Vertical
2	2496.6000	47.34	46.79	-0.55	74.00	27.21	100	207	Vertical
3	4798.5000	48.86	41.80	-7.06	74.00	32.20	200	358	Vertical
4	6906.0000	46.43	45.44	-0.99	74.00	28.56	200	223	Vertical
5	9607.5000	46.22	53.53	7.31	74.00	20.47	100	347	Vertical
6	14697.0000	35.43	53.53	18.10	74.00	20.47	200	263	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9608.0525	7.31	42.25	49.56	54.00	4.44	100	0	Vertical
2	14697.0000	18.10	25.39	43.49	54.00	10.51	200	263	Vertical

Mode: TX/ BLE_2M
Middle Frequency (2440MHz)
Environment: 23.1℃/48%RH/101.0kPa
Tested By: Jiang tao

Voltage:AC 120V/60Hz
Date: 2024-11-18

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1523.8000	48.38	40.28	-8.10	74.00	33.72	100	139	Horizontal
2	2207.2000	49.89	46.47	-3.42	74.00	27.53	100	47	Horizontal
3	4182.0000	50.25	40.54	-9.71	74.00	33.46	100	248	Horizontal
4	5514.0000	48.86	43.34	-5.52	74.00	30.66	200	274	Horizontal
5	10129.5000	40.48	49.67	9.19	74.00	24.33	100	234	Horizontal
6	14701.5000	36.61	51.43	14.82	74.00	22.57	200	77	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10129.3900	9.19	33.68	42.87	54.00	11.13	100	234	Horizontal
2	14701.5000	14.82	26.39	41.21	54.00	12.79	200	77	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1495.6000	48.12	40.77	-7.35	74.00	33.23	200	284	Vertical
2	1890.6000	48.25	43.44	-4.81	74.00	30.56	200	126	Vertical
3	2500.2000	47.35	46.87	-0.48	74.00	27.13	100	139	Vertical
4	6520.5000	47.20	46.28	-0.92	74.00	27.72	100	312	Vertical
5	9760.5000	45.30	54.07	8.77	74.00	19.93	100	337	Vertical
6	14701.5000	35.18	53.46	18.28	74.00	20.54	200	156	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9759.7975	8.77	42.75	51.52	54.00	2.48	100	338.5	Vertical
2	14701.5000	18.28	25.51	43.79	54.00	10.21	200	156	Vertical

Mode: TX/ BLE_2M
Highest Frequency (2480MHz)
Environment: 23.1°C/48%RH/101.0kPa
Tested By: Jiang tao

Voltage:AC 120V/60Hz
Date: 2024-11-18

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1619.4000	49.24	41.80	-7.44	74.00	32.20	200	338	Horizontal
2	2247.6000	50.73	47.19	-3.54	74.00	26.81	100	76	Horizontal
3	2496.6000	47.76	47.55	-0.21	74.00	26.45	100	341	Horizontal
4	5208.0000	48.52	42.09	-6.43	74.00	31.91	200	20	Horizontal
5	6649.5000	46.81	45.97	-0.84	74.00	28.03	200	234	Horizontal
6	13102.5000	35.03	51.19	16.16	74.00	22.81	200	327	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	13102.5000	16.16	26.85	43.01	54.00	10.99	200	327	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1457.2000	48.42	40.88	-7.54	74.00	33.12	200	64	Vertical
2	1889.6000	48.51	43.68	-4.83	74.00	30.32	200	222	Vertical
3	2950.2000	47.63	47.39	-0.24	74.00	26.61	100	286	Vertical
4	5044.5000	48.73	42.76	-5.97	74.00	31.24	200	142	Vertical
5	9919.5000	44.77	53.09	8.32	74.00	20.91	100	336	Vertical
6	14697.0000	36.09	54.19	18.10	74.00	19.81	200	18	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9920.0725	8.32	42.74	51.06	54.00	2.94	100	339.2	Vertical
2	14697.0000	18.10	25.53	43.63	54.00	10.37	200	18	Vertical

- Remark:**
- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
 - 2 Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
 - 3 Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
 - 4 Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

18GHz to 26.5GHz

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Note: Pre-scan all modes, only the worst case(TX/BLE_2M_2402MHz) in the worst power supply is recorded in this report.

Environment: 25.5°C/53%RH/101.0kPa
Tested By: Wen wenwen

Voltage:AC 120V/60Hz
Date: 2024-10-27

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18495.125	48.46	51.15	41.61	2.69	74	32.39	100	254	Horizontal
2	19211.675	49.39	52.5	42.96	3.11	74	31.04	150	77	Horizontal
3	20036.175	48.35	52.08	42.54	3.73	74	31.46	100	338	Horizontal
4	20948.225	48.46	52.52	42.98	4.06	74	31.02	100	310	Horizontal
5	21797.375	48.54	52.35	42.81	3.81	74	31.19	150	77	Horizontal
6	24728.6	45.18	50.69	41.15	5.51	74	32.85	100	77	Horizontal

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level for 1m [dBμV/m]	Level for 3m [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18960.925	48.92	51.93	42.39	3.01	74	31.61	100	222	Vertical
2	20006	48.14	51.85	42.31	3.71	74	31.69	150	339	Vertical
3	21349.85	48.09	52.14	42.6	4.05	74	31.40	100	136	Vertical
4	21632.475	48.47	52.43	42.89	3.96	74	31.11	100	136	Vertical
5	22894.725	46.16	50.47	40.93	4.31	74	33.07	150	106	Vertical
6	24736.675	44.81	50.33	40.79	5.52	74	33.21	100	222	Vertical

Remark:

- 1 Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2 Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Above 18G test distance is 1m, so the Level for 3m= Level for 1m + 20*log(1/3)

7. CONDUCTED EMISSION

7.1 LIMITS

Frequency range	Limits (dB μ V)	
	Quasi-peak	Average
150kHz~0.5MHz	66~56	56~46
0.5MHz~5MHz	56	46
5MHz~30MHz	60	50

7.2 TEST PROCEDURES

Procedure of Preliminary Test

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

– Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

1) Place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

– All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

– The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

– Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

– I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

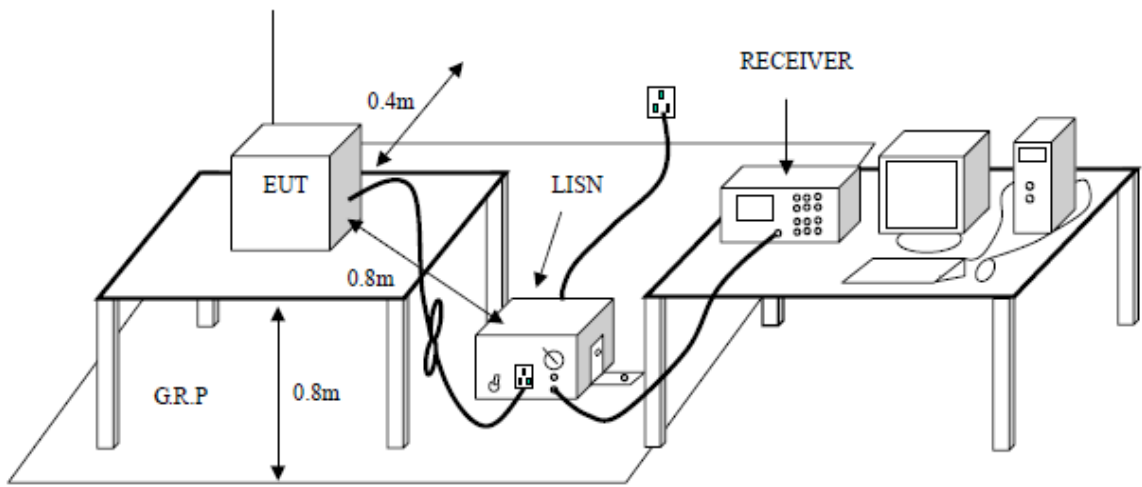
The test mode(s) described in Item 2.5 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.5 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

7.3 TEST SETUP



7.4 DATA SAMPLE

Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

- Factor
- = Insertion loss of LISN + Cable Loss
- Result
- = Quasi-peak Reading/ Average Reading + Factor
- Limit
- = Limit stated in standard
- Margin
- = Result (dBuV) – Limit (dBuV)

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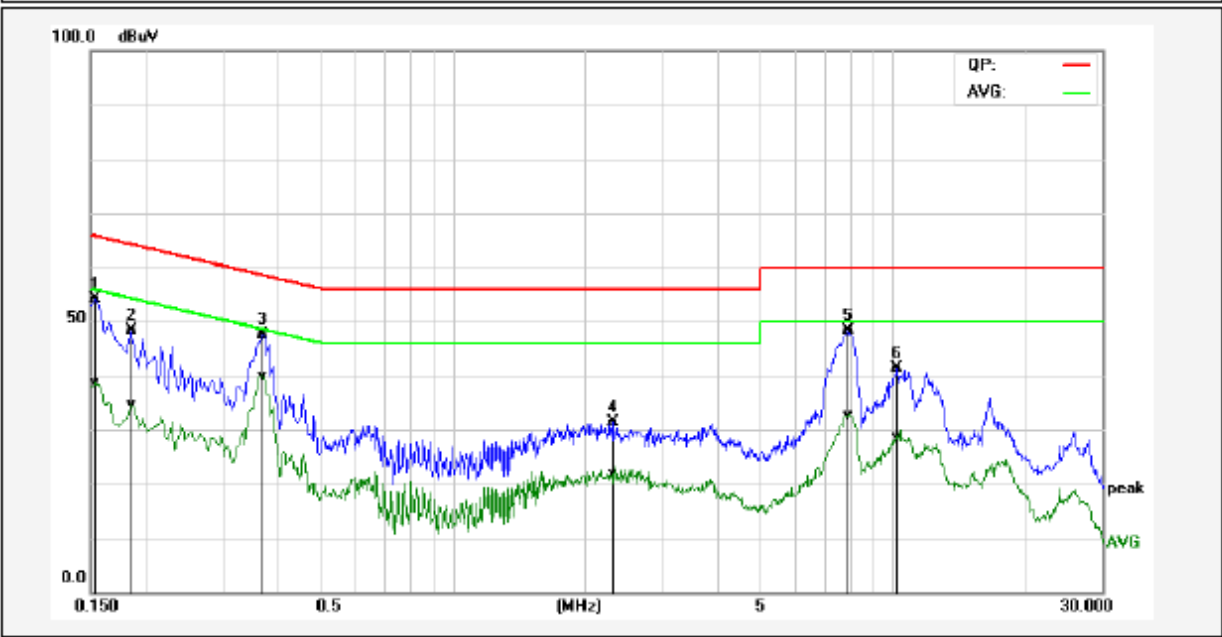
7.5 TEST RESULTS

Note: Pre-scan all test mode, recorded the worst case (TX_BLE_2M_2402MHz) test results in the report.

Product	Donner OURA Piano	Model No.	R300
Environmental Conditions	25.1°C/45%RH/101.0kPa	Test Voltage	AC 120V/60Hz
Tested By	Wen wenwen	Line	L
Tested Date	2024-10-11	Sample No:	E20240827121501-0002

(The chart below shows the highest readings taken from the final data.)

REMARKS: L = Live Line

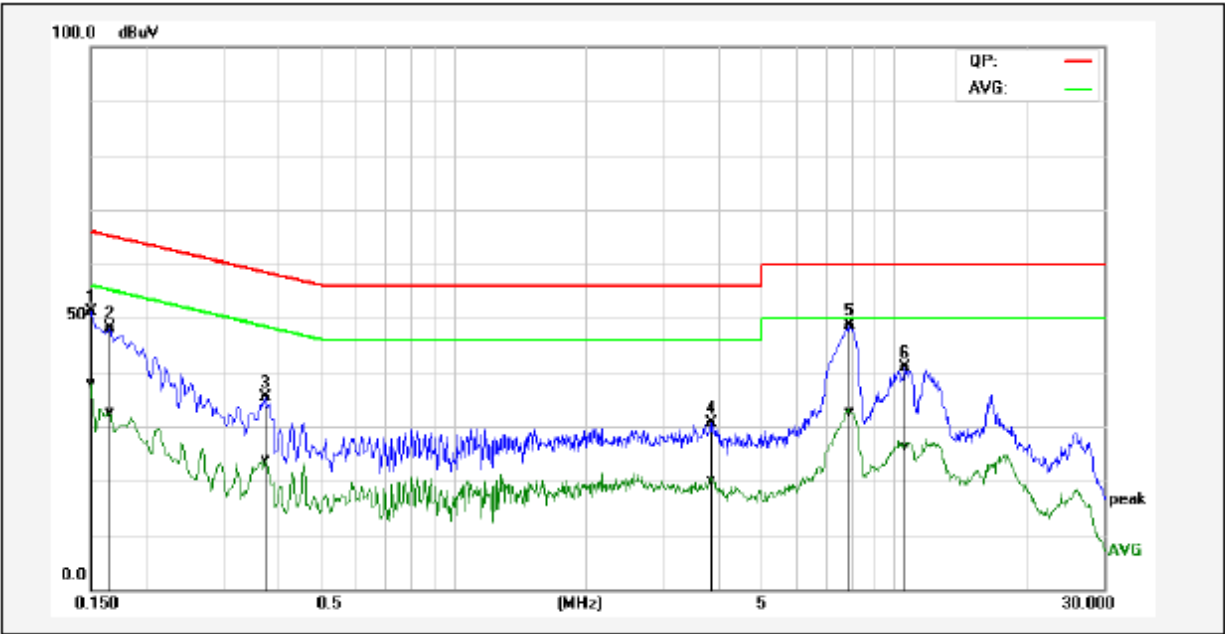


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1539	44.30	28.76	9.79	54.09	38.55	65.78	55.79	-11.69	-17.24	Pass
2	0.1860	38.69	25.00	9.65	48.34	34.65	64.21	54.21	-15.87	-19.56	Pass
3*	0.3700	37.84	30.13	9.73	47.57	39.86	58.50	48.50	-10.93	-8.64	Pass
4	2.3100	21.51	12.12	9.76	31.27	21.88	56.00	46.00	-24.73	-24.12	Pass
5	7.9540	38.59	22.71	9.82	48.41	32.53	60.00	50.00	-11.59	-17.47	Pass
6	10.2420	31.37	18.77	9.90	41.27	28.67	60.00	50.00	-18.73	-21.33	Pass

Product	Donner OURA Piano	Model No.	R300
Environmental Conditions	25.1°C/45%RH/101.0kPa	Test Voltage	AC 120V/60Hz
Tested By	Wen wenwen	Line	N
Tested Date	2024-10-11	Sample No:	E20240827121501-0002

(The chart below shows the highest readings taken from the final data.)

REMARKS: N = Neutral Line.



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1	0.1500	41.36	28.11	9.71	51.07	37.82	65.99	56.00	-14.92	-18.18	Pass
2	0.1660	38.38	22.98	9.63	48.01	32.61	65.15	55.16	-17.14	-22.55	Pass
3	0.3740	25.71	14.14	9.62	35.33	23.76	58.41	48.41	-23.08	-24.65	Pass
4	3.8660	20.85	10.41	9.75	30.60	20.16	56.00	46.00	-25.40	-25.84	Pass
5*	7.9020	38.73	22.87	9.87	48.60	32.74	60.00	50.00	-11.40	-17.26	Pass
6	10.5820	30.97	16.39	9.89	40.86	26.28	60.00	50.00	-19.14	-23.72	Pass

8. 6dB BANDWIDTH

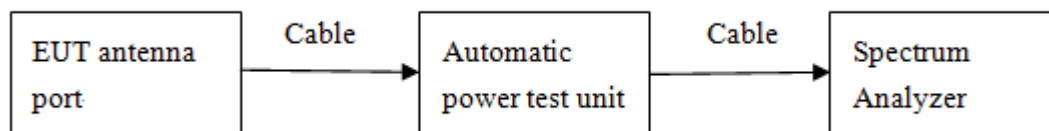
8.1 LIMITS

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

8.2 TEST PROCEDURES

- Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the Automatic power measuring unit.
- Set resolution bandwidth (RBW) = 100kHz. Set the video bandwidth (VBW) $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize, record 6dB bandwidth value.
- Repeat above procedures until all frequencies measured were complete.

8.3 TEST SETUP



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8.4 TEST RESULTS

Environment: 25.3°C/59%RH/101.0kPa
Tested By: Qin tingting

Voltage:AC 120V/60Hz
Date: 2024-09-14

BLE_1M

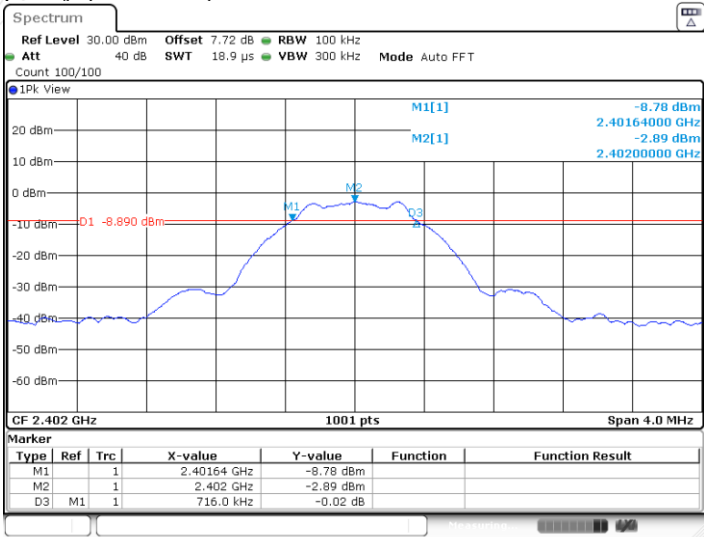
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Lowest	2402	716.0	≥500	PASS
Middle	2440	720.0		PASS
Highest	2480	716.0		PASS

BLE_2M

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Lowest	2402	1248.0	≥500	PASS
Middle	2440	1256.0		PASS
Highest	2480	1240.0		PASS

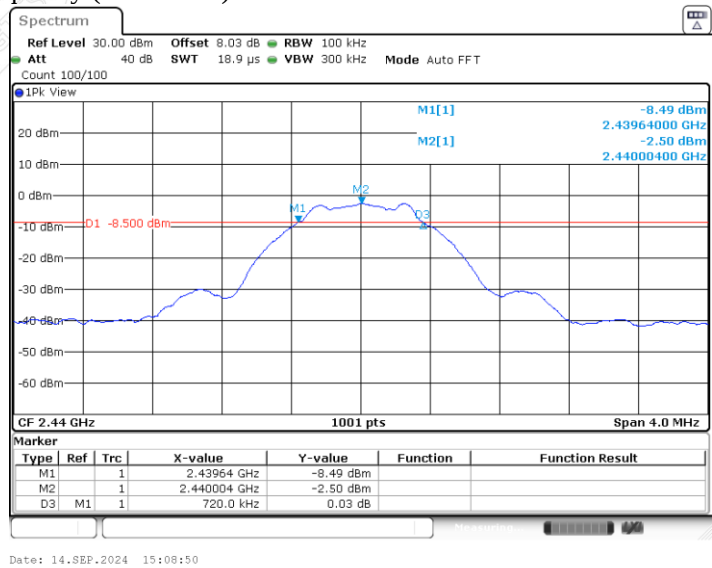
BLE_1M

Lowest Frequency (2402MHz)

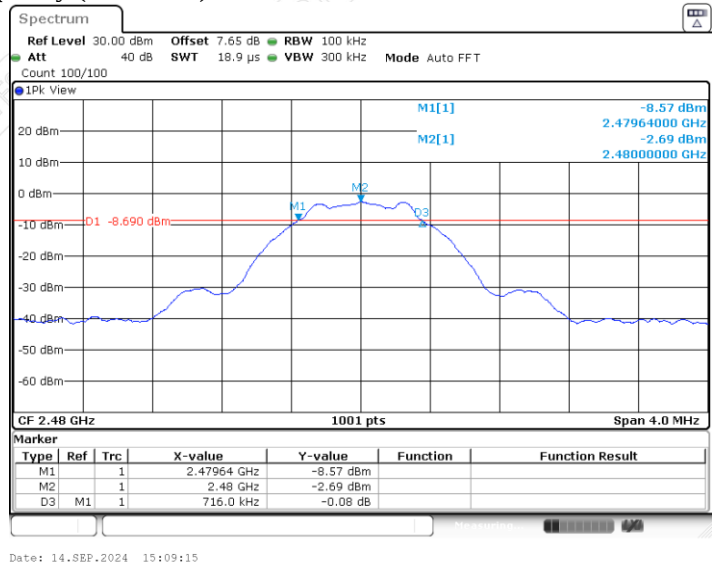


Date: 14.SEP.2024 15:08:01

Middle Frequency (2440 MHz)

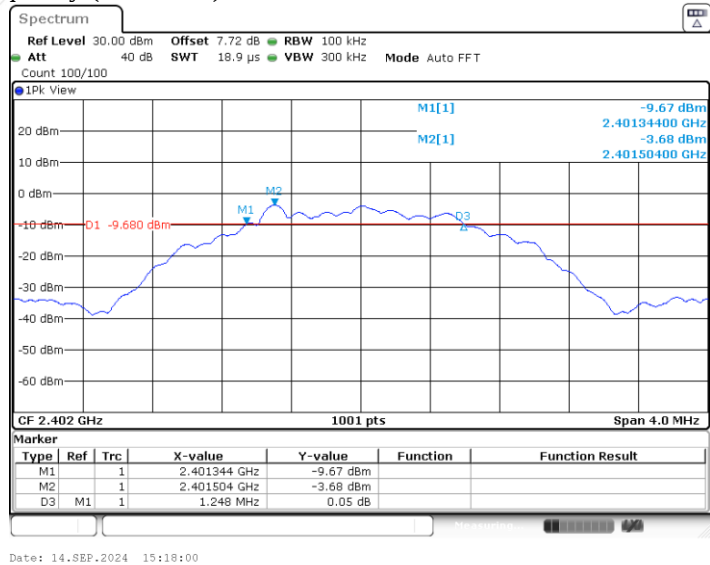


Highest Frequency (2480MHz)

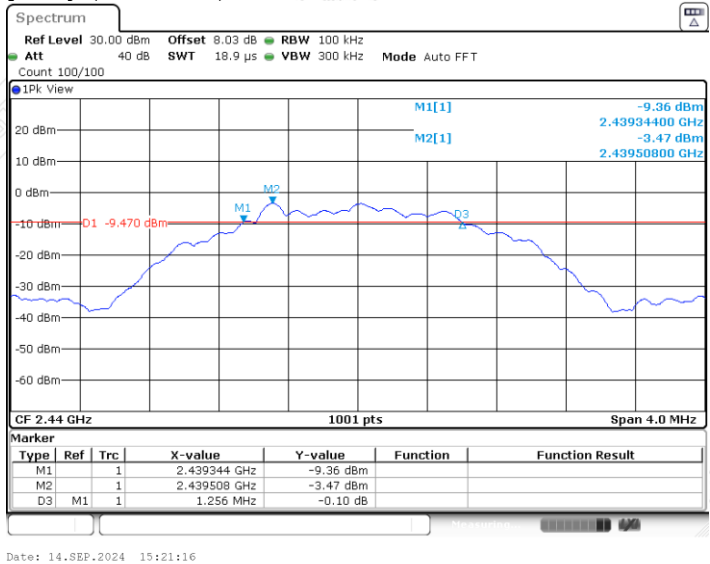


BLE_2M

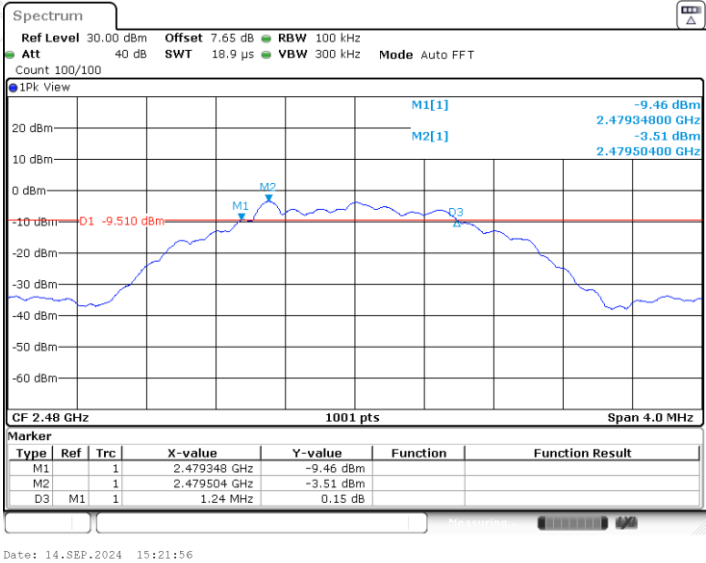
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)



Highest Frequency (2480MHz)



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9. MAXIMUM PEAK OUTPUT POWER

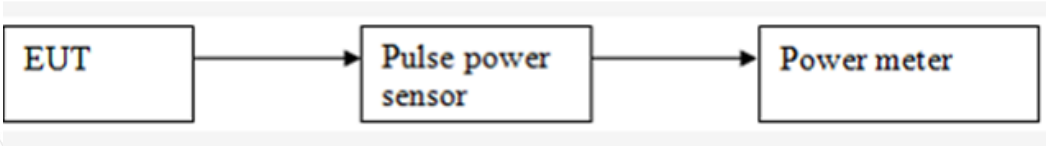
9.1 LIMITS

The maximum Peak output power measurement is 1W

9.2 TEST PROCEDURES

- a) RF output of EUT was connected to the broadband peak RF power meter by RF cable. The path loss was compensated to the results for each measurement.
- b) Set to the maximum power setting and enable the EUT transmit continuously.
- c) Measure the conducted output power and record the results in the test report.

9.3 TEST SETUP



9.4 TEST RESULTS

Environment: 25.3°C/59%RH/101.0kPa
Tested By: Qin tingting

Voltage:AC 120V/60Hz
Date: 2024-09-14

BLE_1M

Channel	Frequency (MHz)	Maximum Power (dBm)	Limit	Peak/ Average	Result
Lowest	2402	-1.31	1W (30dBm)	Peak	Pass
Middle	2440	-1.53			Pass
Highest	2480	-1.88			Pass

BLE_2M

Channel	Frequency (MHz)	Maximum Power (dBm)	Limit	Peak/ Average	Result
Lowest	2402	-1.28	1W (30dBm)	Peak	Pass
Middle	2440	-1.61			Pass
Highest	2480	-1.84			Pass

10. POWER SPECTRAL DENSITY

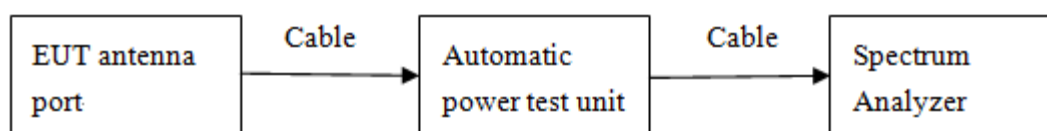
10.1 LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

10.2 TEST PROCEDURES

- a) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- b) Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:
 - a) Set analyzer center frequency to DTS channel center frequency.
 - b) Set the span to at least 1.5 times the DTS bandwidth.
 - c) Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d) Set the VBW $\geq [3 \times \text{RBW}]$.
 - e) Detector = peak
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum amplitude level within the RBW.
 - j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.
- d) Repeat above procedures until all frequencies measured were complete.

10.3 TEST SETUP



10.4 TEST RESULTS

Environment: 25.8°C/58%RH/101.0kPa
Tested By: Qin tingting

Voltage:AC 120V/60Hz
Date: 2024-09-23

BLE_1M

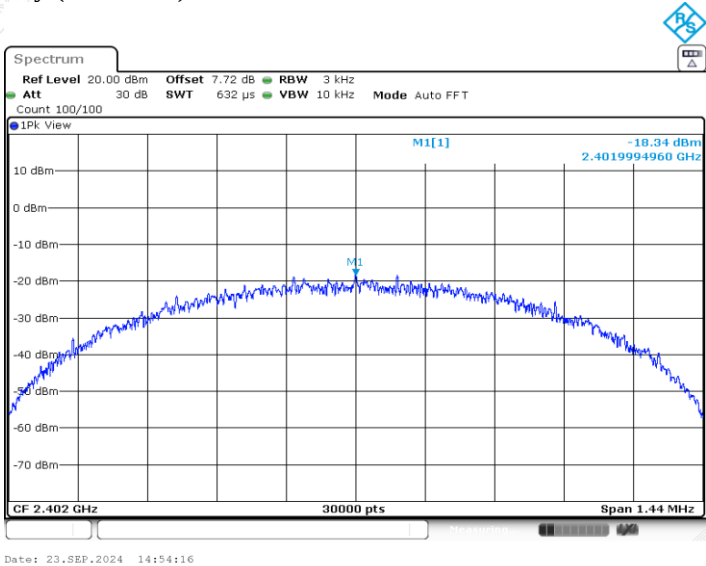
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Test Result
Lowest	2402	-18.34	8.00	PASS
Middle	2440	-18.04		PASS
Highest	2480	-18.34		PASS

BLE_2M

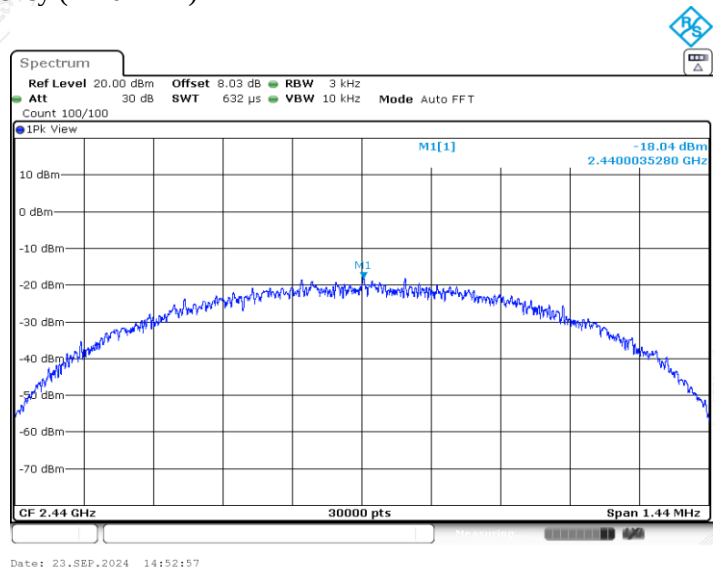
Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Test Result
Lowest	2402	-21.81	8.00	PASS
Middle	2440	-21.45		PASS
Highest	2480	-21.82		PASS

BLE_1M

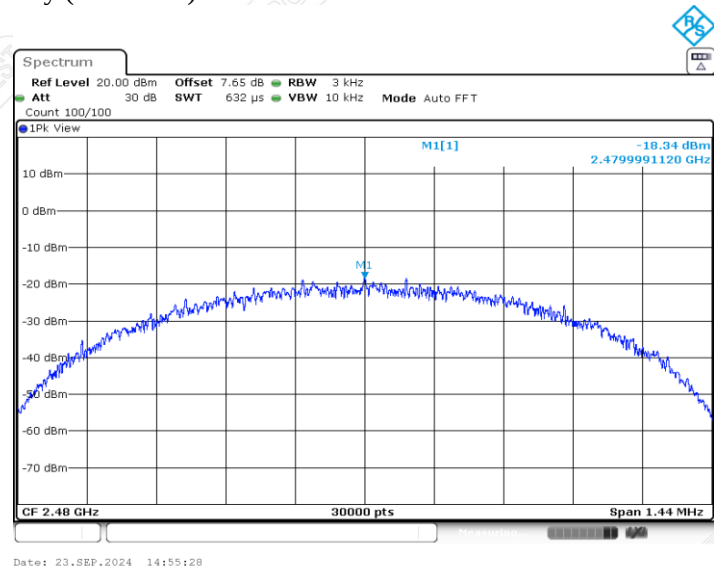
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)

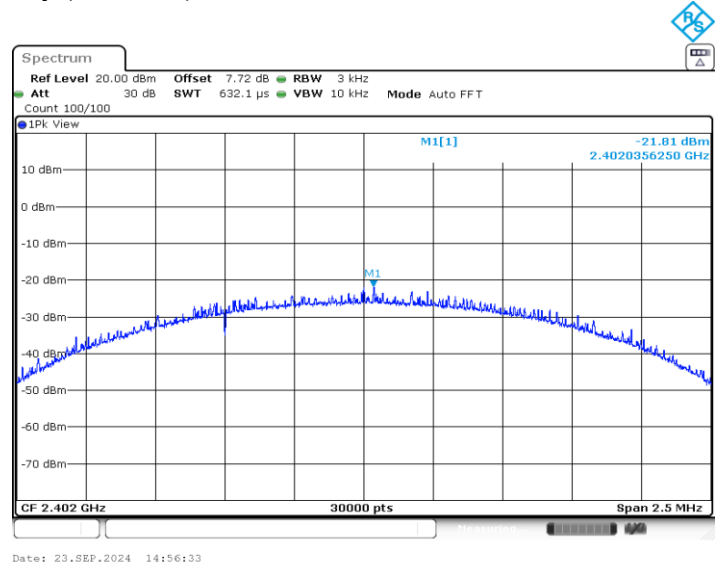


Highest Frequency (2480MHz)

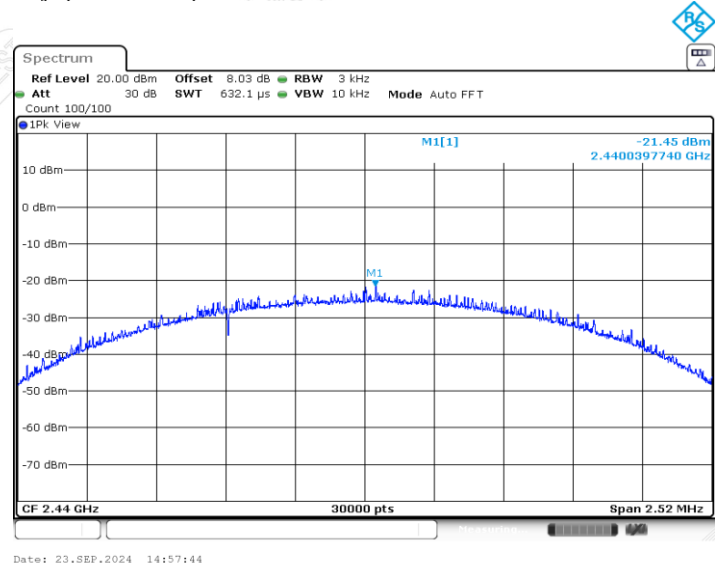


BLE_2M

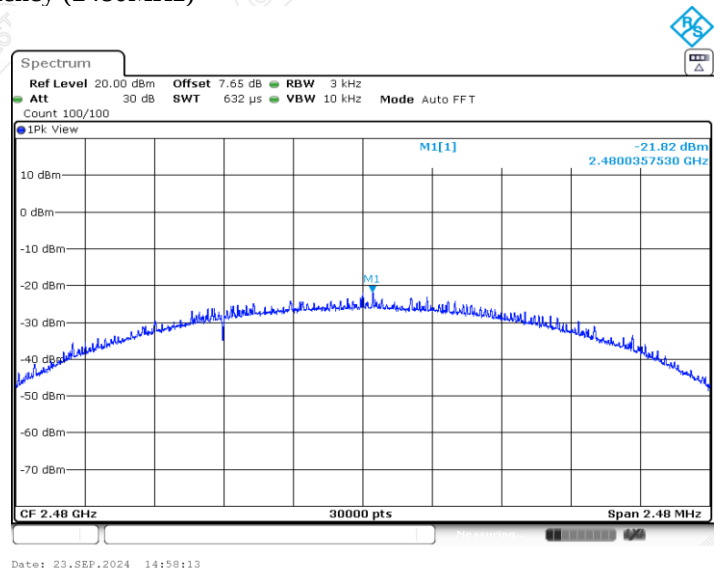
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)



Highest Frequency (2480MHz)



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11. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

11.1 LIMITS

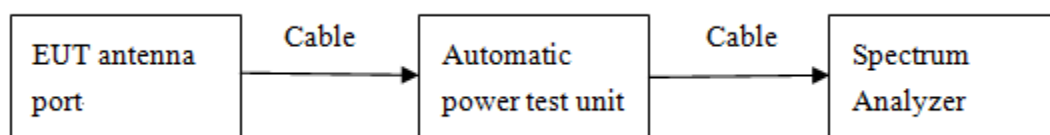
In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the 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 30dB instead of 20dB.

11.2 TEST PROCEDURES

Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.

- Remove the antenna from the EUT and then connect a low attenuation cable from the antenna port to the spectrum.
- Set the spectrum analyzer: RBW =100kHz; VBW =300kHz, Frequency range = 30MHz to 26.5GHz; Sweep = auto; Detector Function = Peak. Trace = Max, hold.
- Measure and record the results in the test report.
- The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

11.3 TEST SETUP



11.4 TEST RESULTS

Environment: 25.8°C/58%RH/101.0kPa
Tested By: Qin tingting

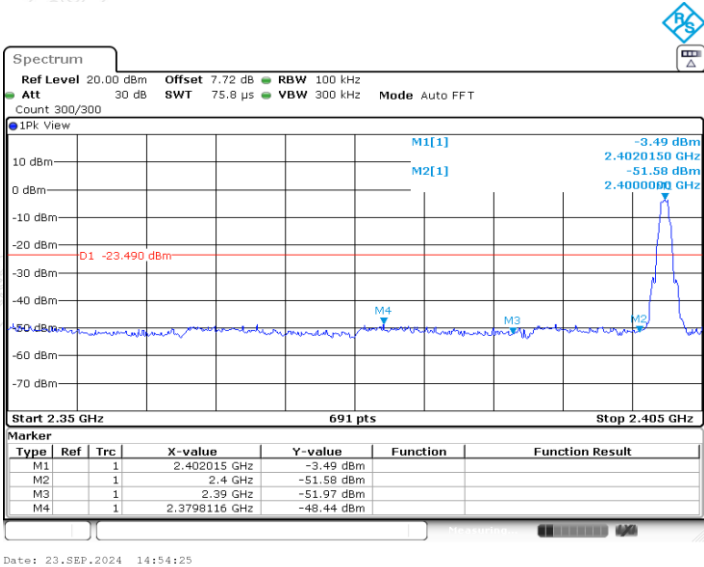
Voltage:AC 120V/60Hz
Date: 2024-09-23

Band edge measurements

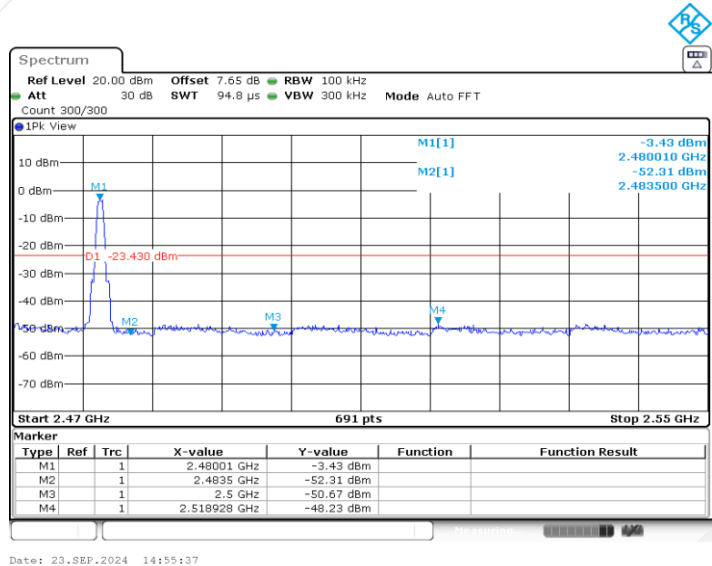
TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-3.49	-48.44	≤-23.49	PASS
		High	2480	-3.43	-48.23	≤-23.43	PASS
BLE_2M	Ant1	Low	2402	-4.74	-35.95	≤-24.74	PASS
		High	2480	-4.45	-47.69	≤-24.45	PASS

BLE_1M

Lowest Frequency (2402MHz)
2.35GHz-2.405GHz

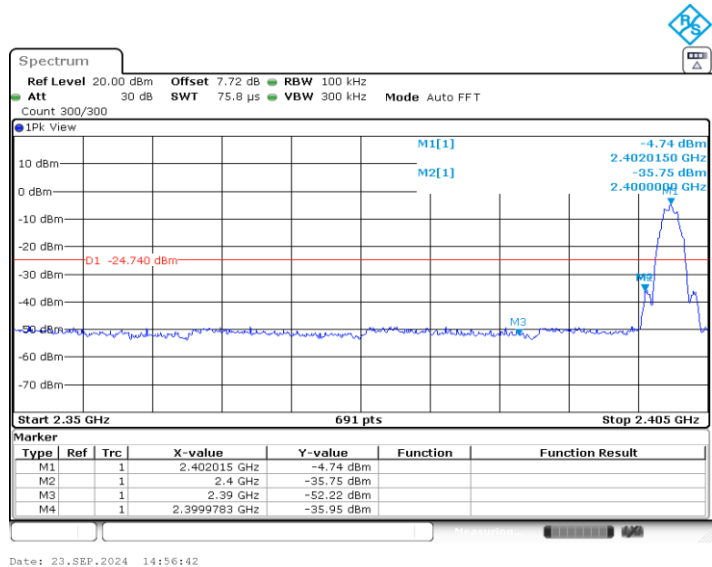


Highest Frequency (2480MHz)
2.47GHz-2.55GHz

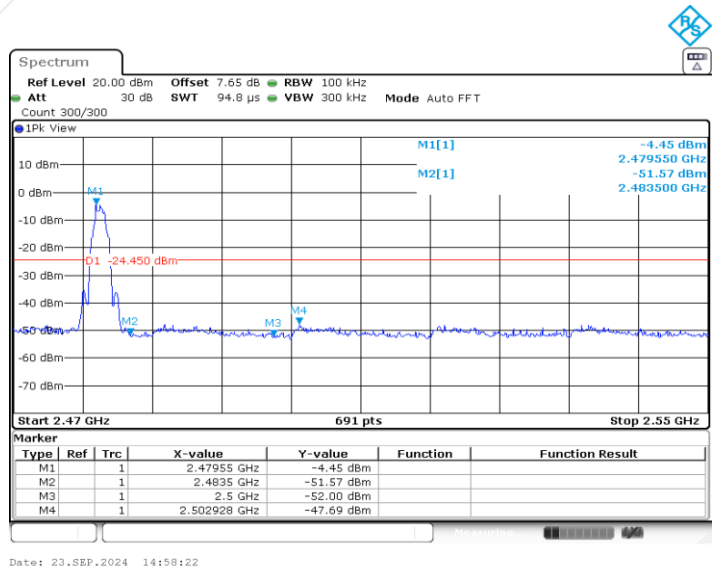


BLE_2M

Lowest Frequency (2402MHz)
2.35GHz-2.405GHz



Highest Frequency (2480MHz)
2.47GHz-2.55GHz

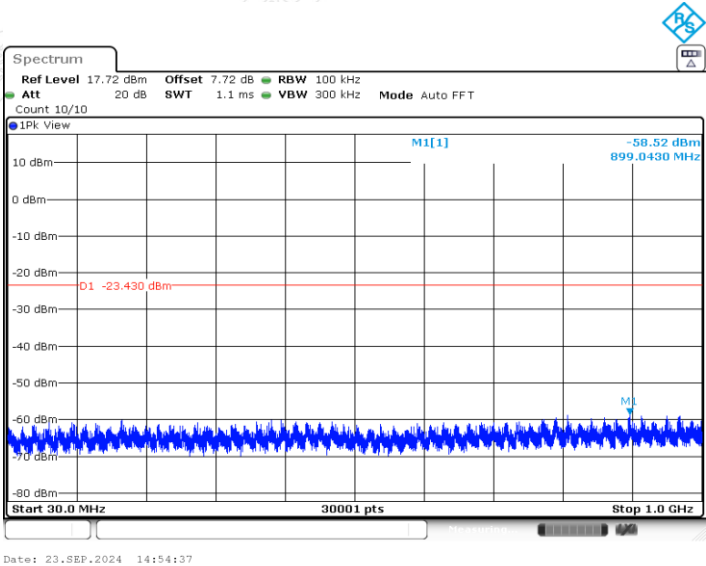
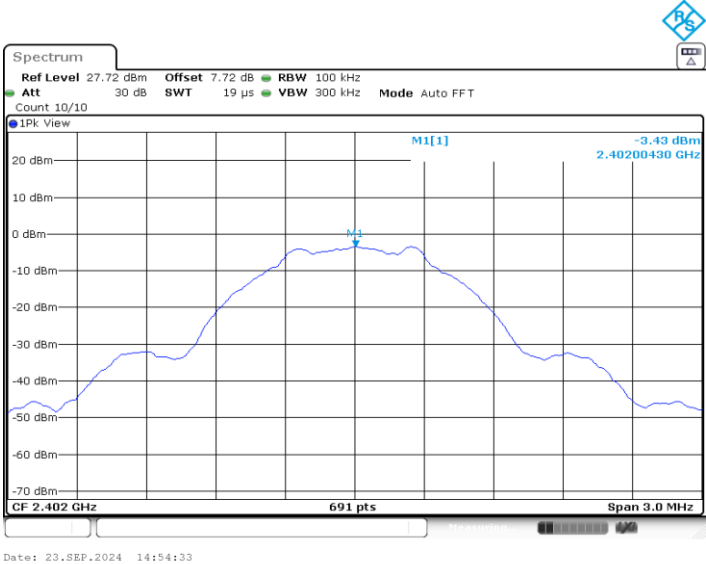


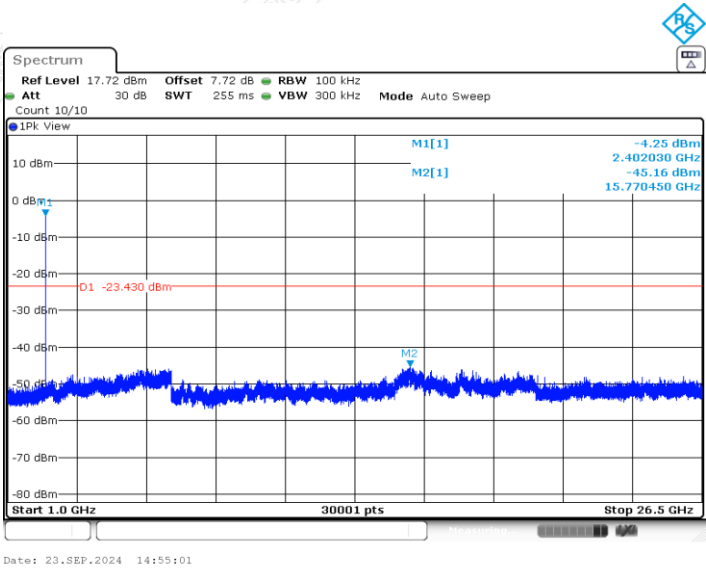
Conducted Spurious Emission

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-3.43	-3.43	---	PASS
			30~1000	-3.43	-58.52	$\leq$ -23.43	PASS
			1000~26500	-3.43	-45.16	$\leq$ -23.43	PASS
		2440	Reference	-3.15	-3.15	---	PASS
			30~1000	-3.15	-58.79	$\leq$ -23.15	PASS
			1000~26500	-3.15	-43.74	$\leq$ -23.15	PASS
		2480	Reference	-3.41	-3.41	---	PASS
			30~1000	-3.41	-57.62	$\leq$ -23.41	PASS
			1000~26500	-3.41	-45.23	$\leq$ -23.41	PASS
BLE_2M	Ant1	2402	Reference	-4.32	-4.32	---	PASS
			30~1000	-4.32	-58.92	$\leq$ -24.32	PASS
			1000~26500	-4.32	-45.39	$\leq$ -24.32	PASS
		2440	Reference	-4.04	-4.04	---	PASS
			30~1000	-4.04	-58.93	$\leq$ -24.04	PASS
			1000~26500	-4.04	-44.25	$\leq$ -24.04	PASS
		2480	Reference	-4.30	-4.30	---	PASS
			30~1000	-4.30	-58.27	$\leq$ -24.3	PASS
			1000~26500	-4.30	-44.52	$\leq$ -24.3	PASS

BLE_1M

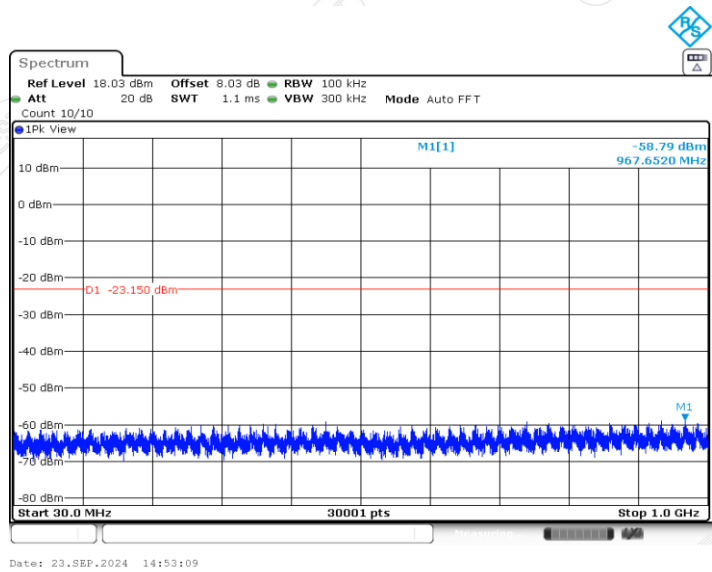
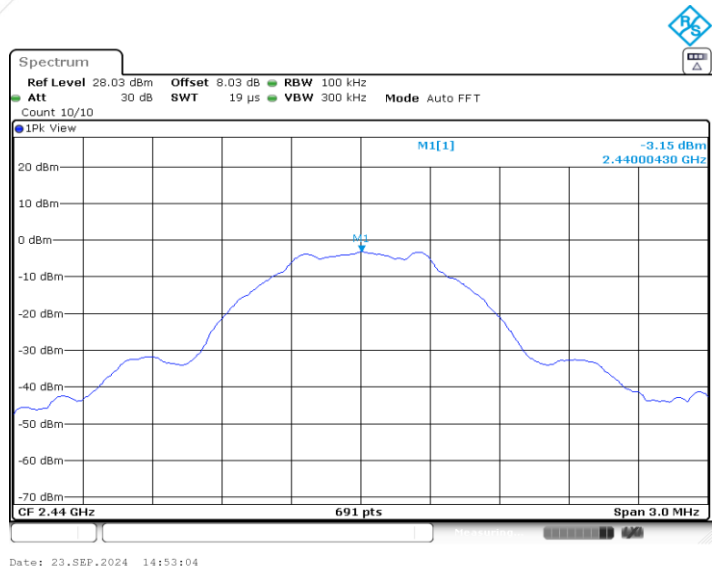
Lowest Frequency (2402MHz)

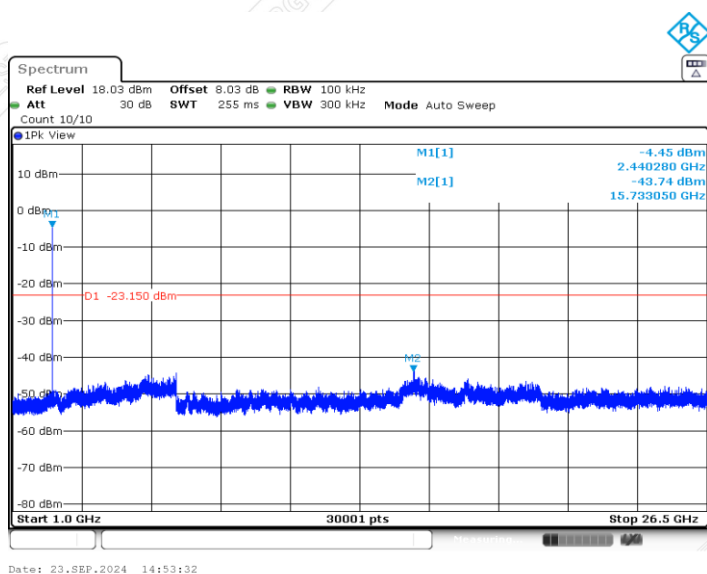




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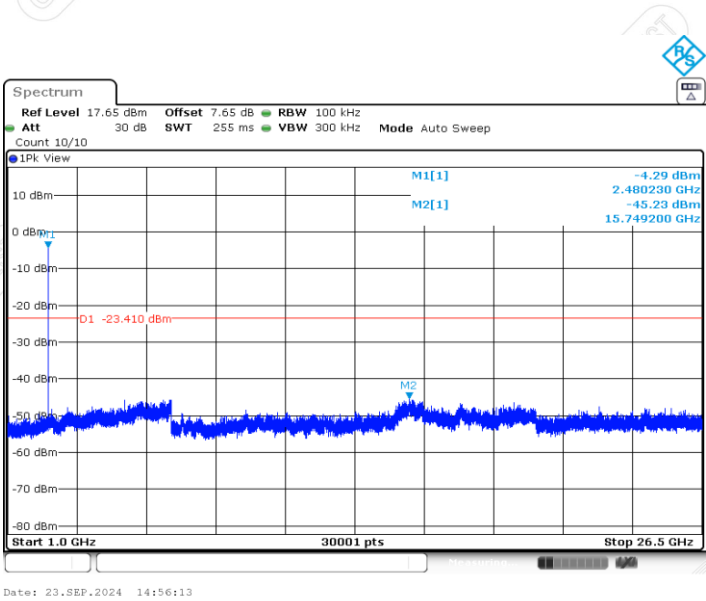
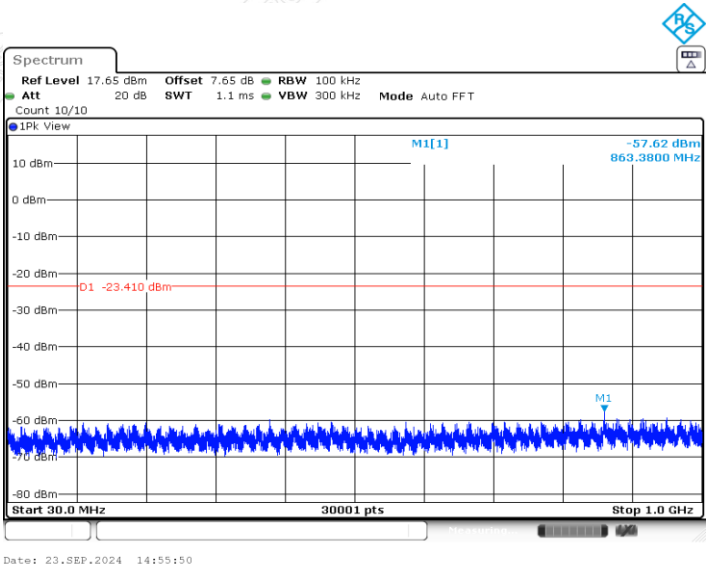
Middle Frequency (2440MHz)





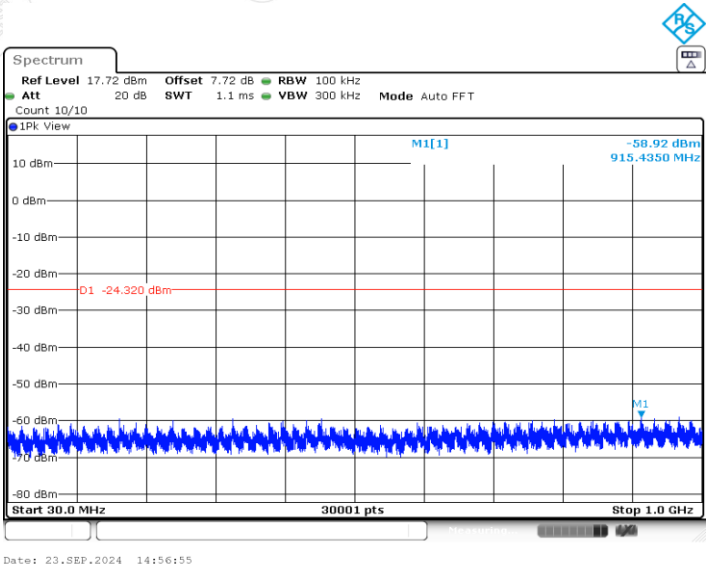
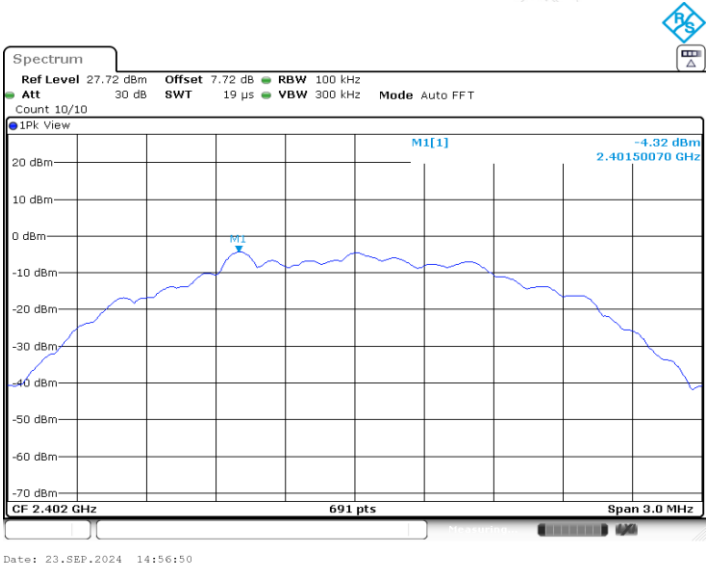
Highest Frequency (2480MHz)

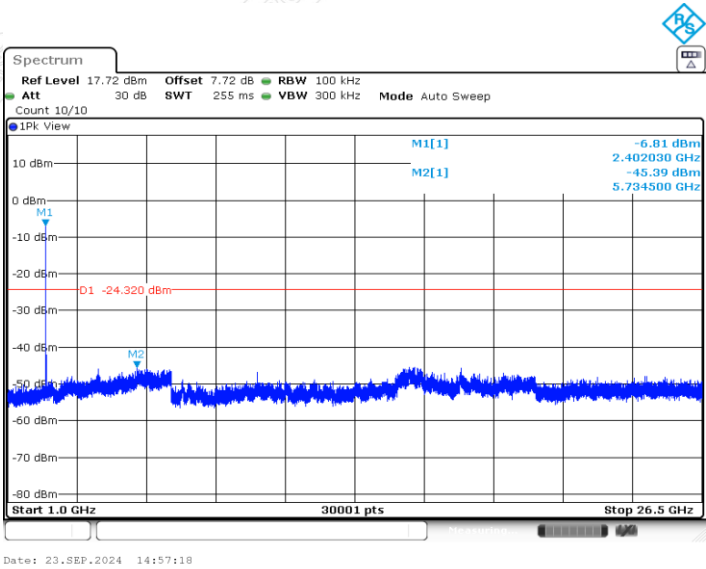




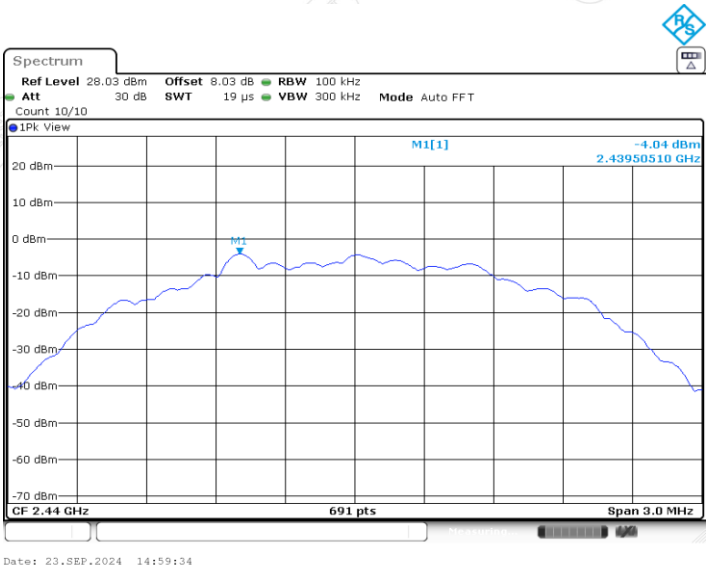
BLE_2M

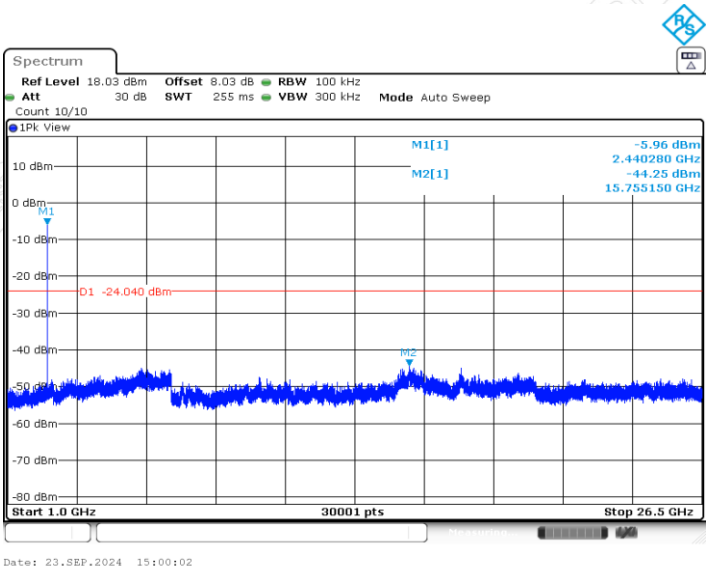
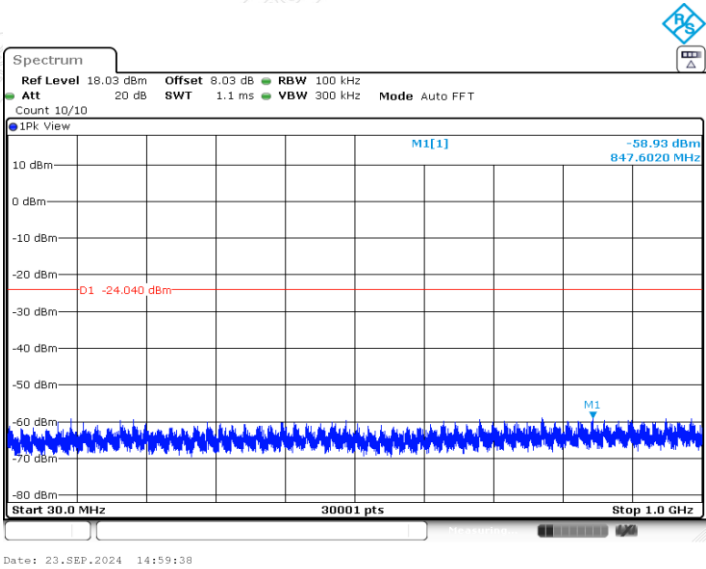
Lowest Frequency (2402MHz)



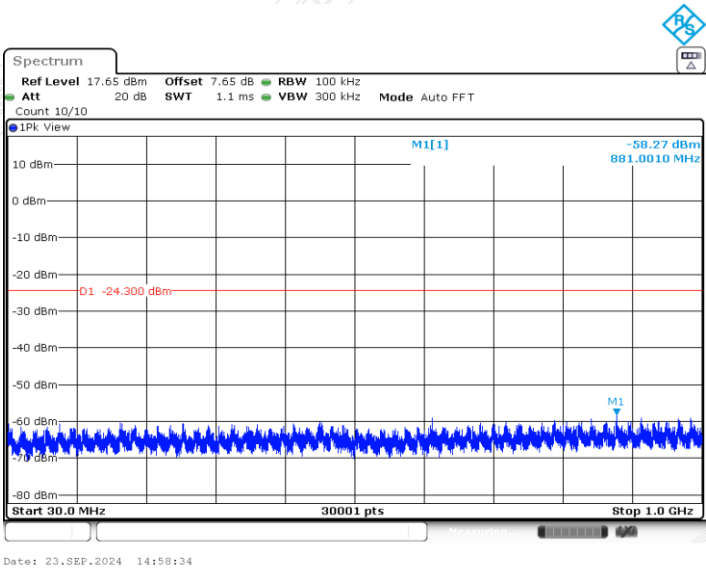
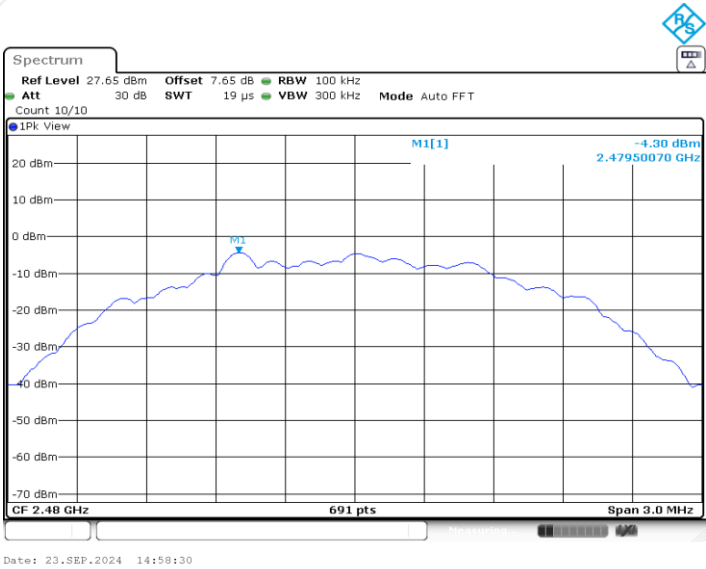


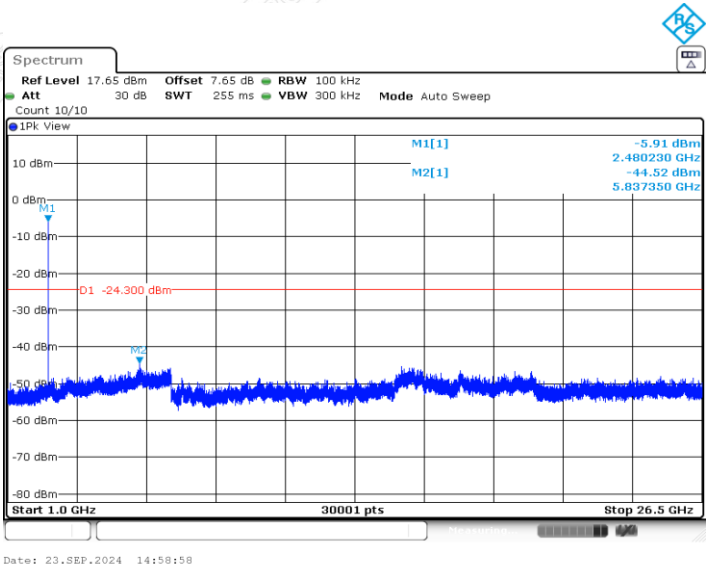
Middle Frequency (2440MHz)





Highest Frequency (2480MHz)





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12. RESTRICTED BANDS OF OPERATION

12.1 LIMITS

Section 15.247(d) 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)).

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

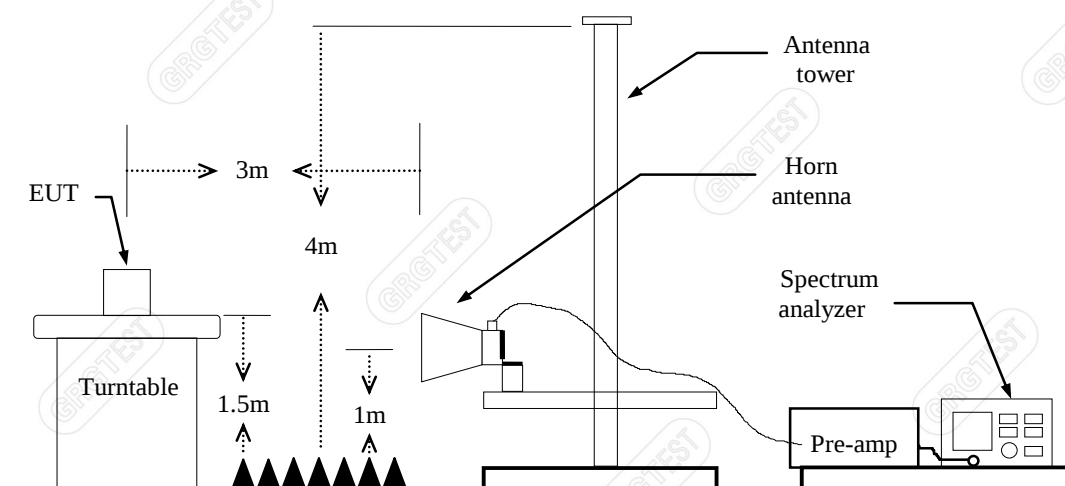
Frequency (MHz)	Quasi-peak($\mu\text{V}/\text{m}$)	Measurement distance(m)	Quasi-peak(dB $\mu\text{V}/\text{m}$)@distance 3m
0.009-0.490	2400/F(kHz)	300	128.5~93.8
0.490-1.705	24000/F(kHz)	30	73.8~63
1.705-30.0	30	30	69.5
30 ~ 88	100	3	40
88~216	150	3	43.5
216 ~ 960	200	3	46
Above 960	500	3	54

12.2 TEST PROCEDURES

- The EUT is placed on a turntable, which is 1.5m above the ground plane.
- The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO.
 - AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO.

If the EUT is configured to transmit with duty cycle $\geq 98\%$, set $VBW \leq RBW/100$ (i.e., 10kHz) but not less than 10 Hz. If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$, Where T is defined in section 2.8.
- Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

12.3 TEST SETUP

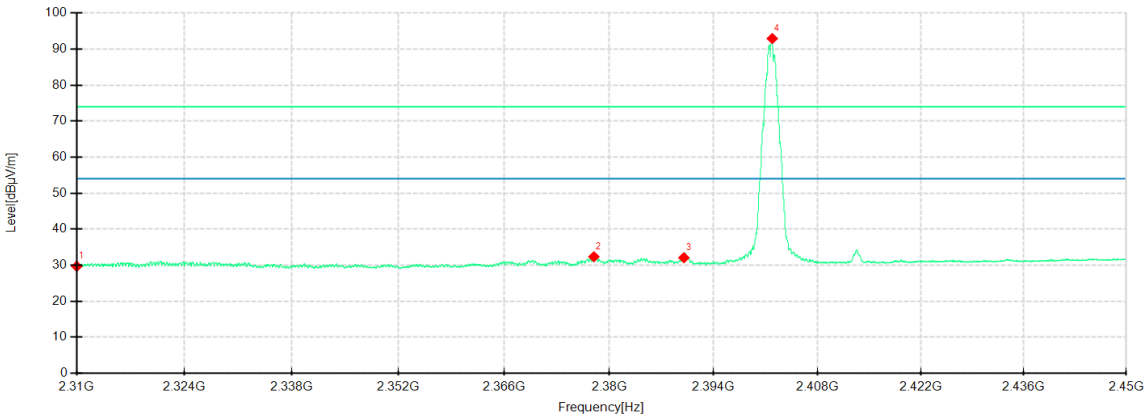


12.4 TEST RESULTS

Product	Donner OURA Piano	Model No.	R300
Test Voltage:	AC 120V/60Hz	Test Engineer:	Jiang tao
Test Date	2024-10-26	Environmental Conditions	25.3°C/54%RH/101.0kPa
Sample No:	E20240827121501-0002	/	/

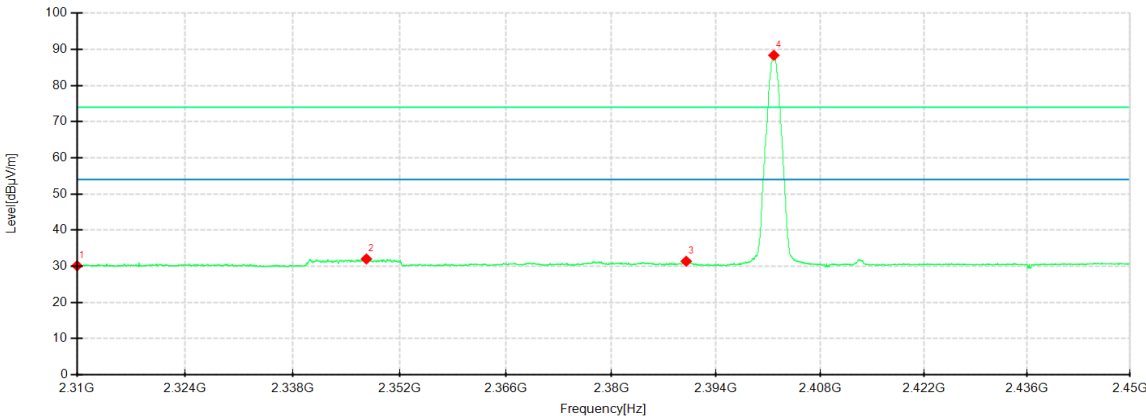
BLE 1M
Lowest Frequency
Frequency 2402MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

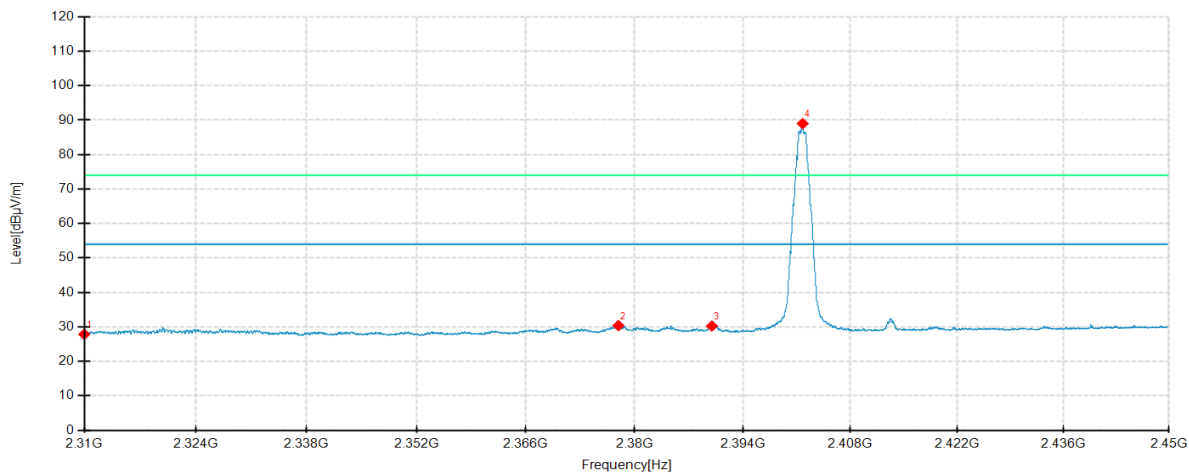
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	35.57	29.67	-5.90	74.00	44.33	100	250	Horizontal	/
2	2377.9700	38.26	32.34	-5.92	74.00	41.66	200	198	Horizontal	/
3	2390.0000	37.80	32.07	-5.73	74.00	41.93	200	198	Horizontal	/
4	2401.8750	98.44	92.92	-5.52	74.00	-18.92	200	210	Horizontal	No limit
1	2310.0000	35.43	30.13	-5.30	74.00	43.87	100	20	Vertical	/
2	2347.6600	37.39	32.02	-5.37	74.00	41.98	100	133	Vertical	/
3	2390.0000	36.83	31.38	-5.45	74.00	42.62	100	258	Vertical	/
4	2401.7350	93.81	88.34	-5.47	74.00	-14.34	200	138	Vertical	No limit

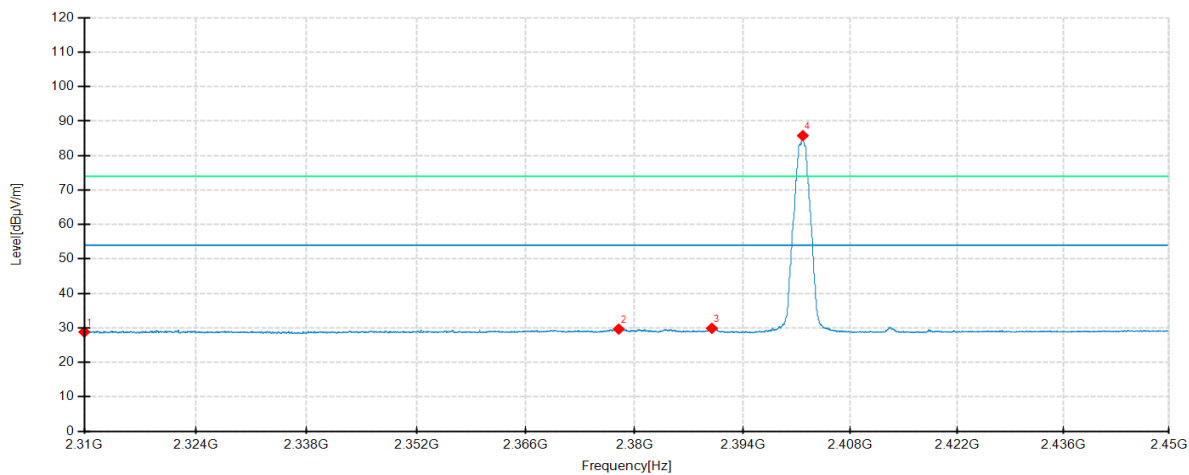
Lowest Frequency
Frequency 2402MHz
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

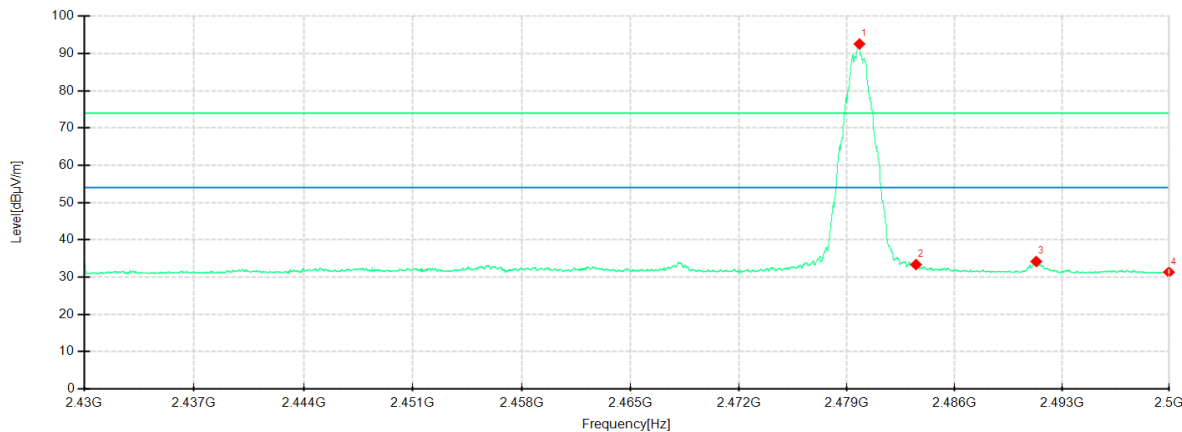
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	33.74	27.84	-5.90	54.00	26.16	200	246	Horizontal	/
2	2377.9175	36.29	30.37	-5.92	54.00	23.63	200	209	Horizontal	/
3	2390.0000	35.97	30.24	-5.73	54.00	23.76	200	197	Horizontal	/
4	2401.8050	94.53	89.01	-5.52	54.00	-35.01	200	209	Horizontal	No limit
1	2310.0000	34.10	28.80	-5.30	54.00	25.20	200	15	Vertical	/
2	2377.9525	35.08	29.65	-5.43	54.00	24.35	100	146	Vertical	/
3	2390.0000	35.32	29.87	-5.45	54.00	24.13	100	146	Vertical	/
4	2401.8225	91.26	85.80	-5.46	54.00	-31.80	100	258	Vertical	No limit

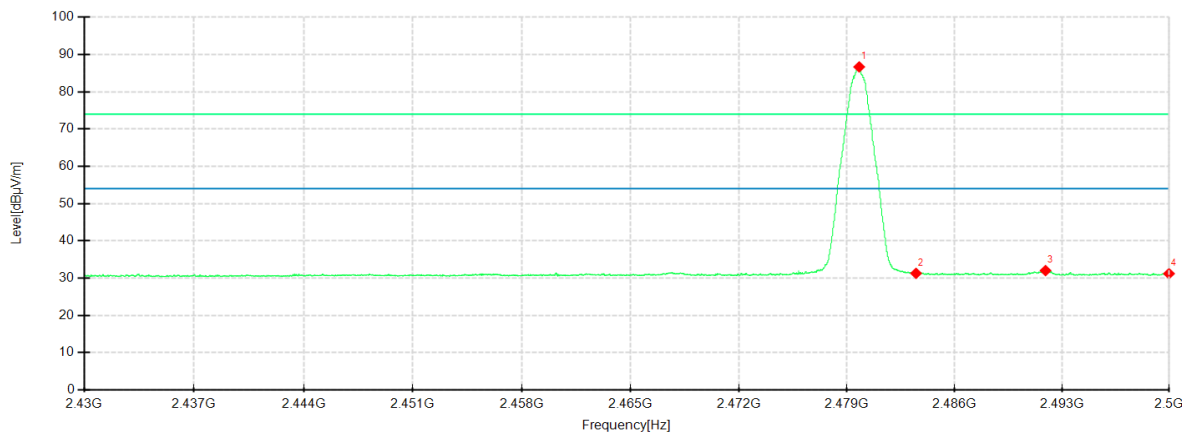
Highest Frequency
Frequency 2480MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

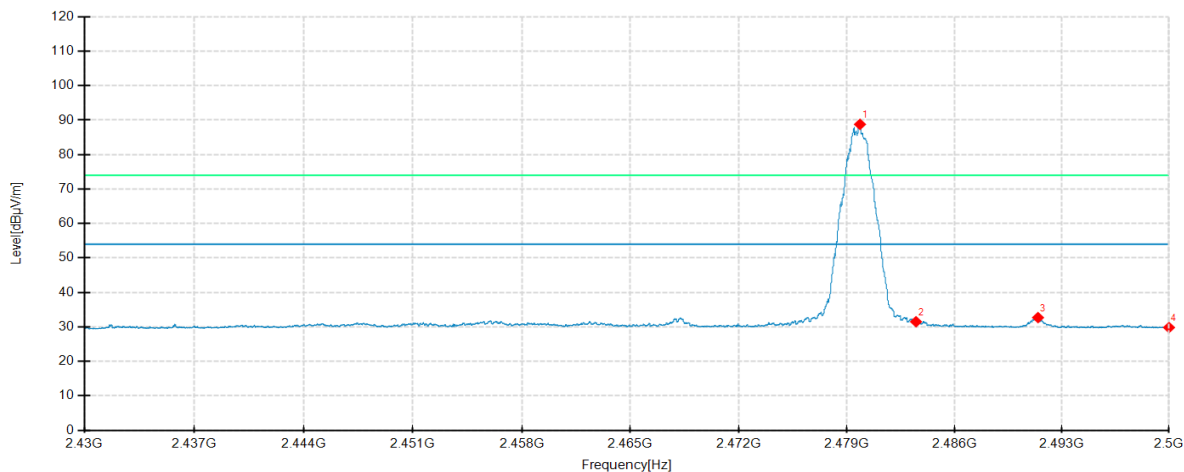
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.8225	97.18	92.53	-4.65	74.00	-18.53	200	210	Horizontal	No limit
2	2483.5000	38.02	33.35	-4.67	74.00	40.65	200	210	Horizontal	/
3	2491.3288	38.91	34.18	-4.73	74.00	39.82	200	210	Horizontal	/
4	2500.0000	36.11	31.32	-4.79	74.00	42.68	100	240	Horizontal	/
1	2479.8050	91.81	86.66	-5.15	74.00	-12.66	100	233	Vertical	No limit
2	2483.5000	36.41	31.28	-5.13	74.00	42.72	100	233	Vertical	/
3	2491.9325	37.13	32.01	-5.12	74.00	41.99	200	225	Vertical	/
4	2500.0000	36.28	31.19	-5.09	74.00	42.81	200	86	Vertical	/

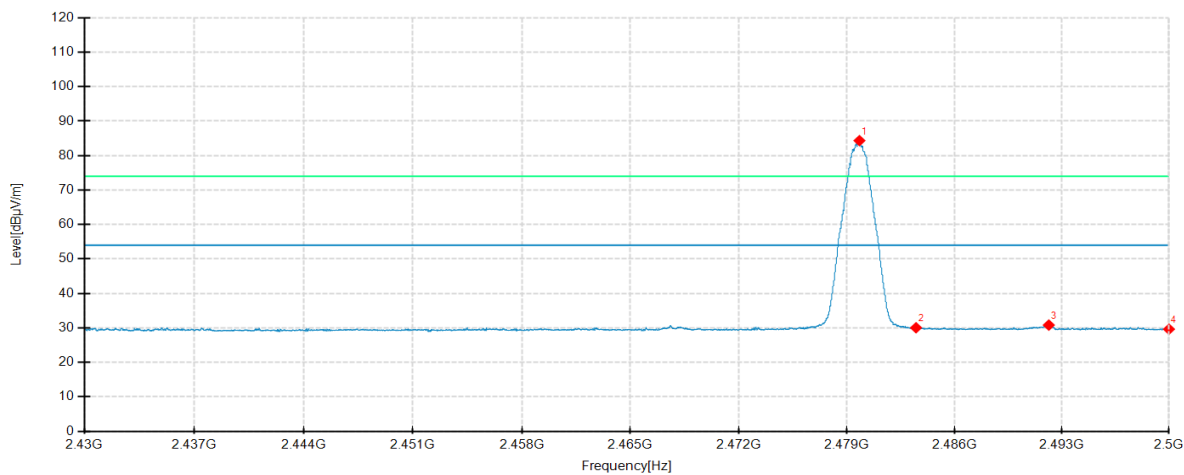
Highest Frequency
Frequency 2480MHz
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

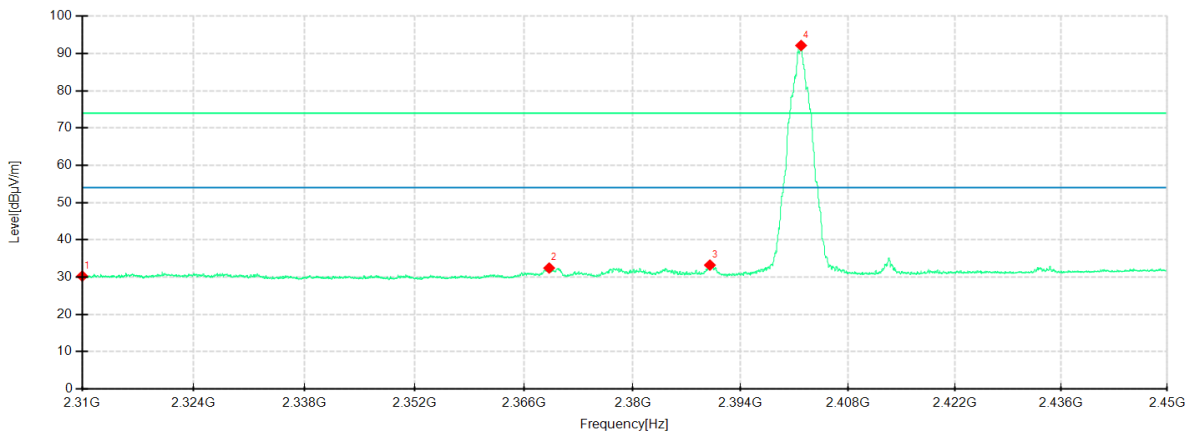
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.8575	93.44	88.79	-4.65	54.00	-34.79	200	207	Horizontal	No limit
2	2483.5000	36.16	31.49	-4.67	54.00	22.51	200	207	Horizontal	/
3	2491.4425	37.43	32.70	-4.73	54.00	21.30	200	207	Horizontal	/
4	2500.0000	34.60	29.81	-4.79	54.00	24.19	100	187	Horizontal	/
1	2479.8225	89.51	84.36	-5.15	54.00	-30.36	100	234	Vertical	No limit
2	2483.5000	35.17	30.04	-5.13	54.00	23.96	100	259	Vertical	/
3	2492.1513	35.93	30.81	-5.12	54.00	23.19	200	215	Vertical	/
4	2500.0000	34.71	29.62	-5.09	54.00	24.38	200	289	Vertical	/

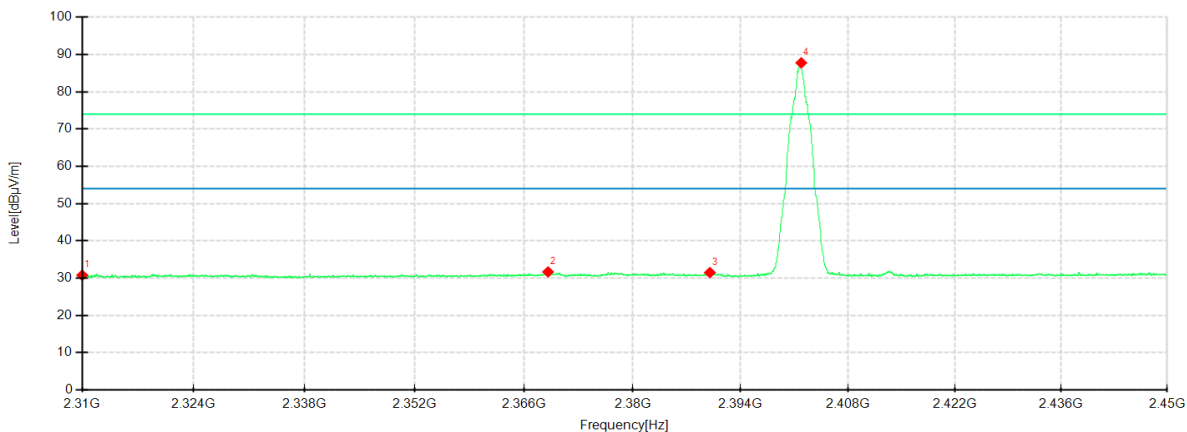
BLE 2M
Lowest Frequency
Frequency 2402MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

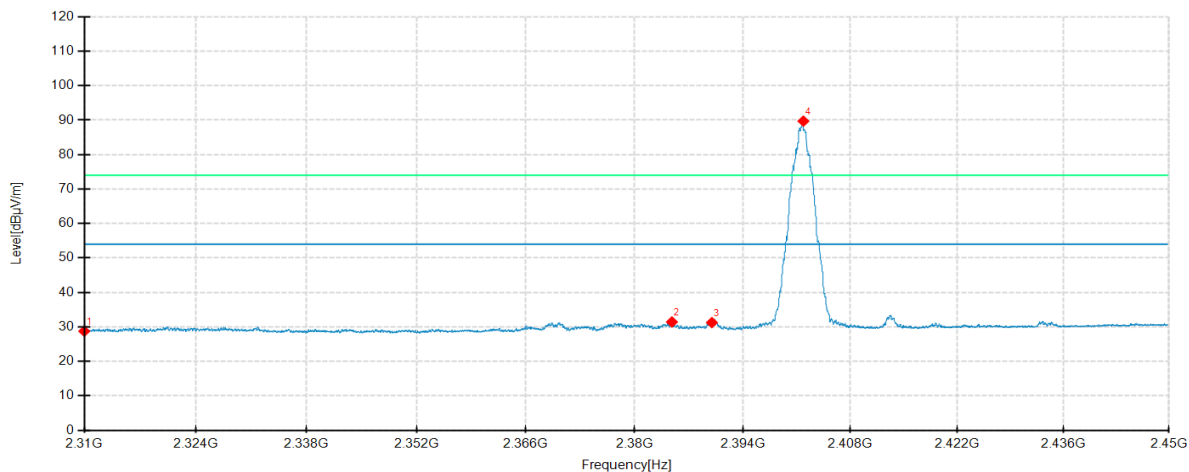
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	36.17	30.27	-5.90	74.00	43.73	200	284	Horizontal	/
2	2369.2550	38.49	32.43	-6.06	74.00	41.57	100	240	Horizontal	/
3	2390.0000	38.94	33.21	-5.73	74.00	40.79	200	209	Horizontal	/
4	2401.8575	97.65	92.13	-5.52	74.00	-18.13	200	209	Horizontal	No limit
1	2310.0000	36.06	30.76	-5.30	74.00	43.24	200	340	Vertical	/
2	2369.1150	37.06	31.65	-5.41	74.00	42.35	100	248	Vertical	/
3	2390.0000	36.93	31.48	-5.45	74.00	42.52	100	235	Vertical	/
4	2401.8750	93.21	87.75	-5.46	74.00	-13.75	200	124	Vertical	No limit

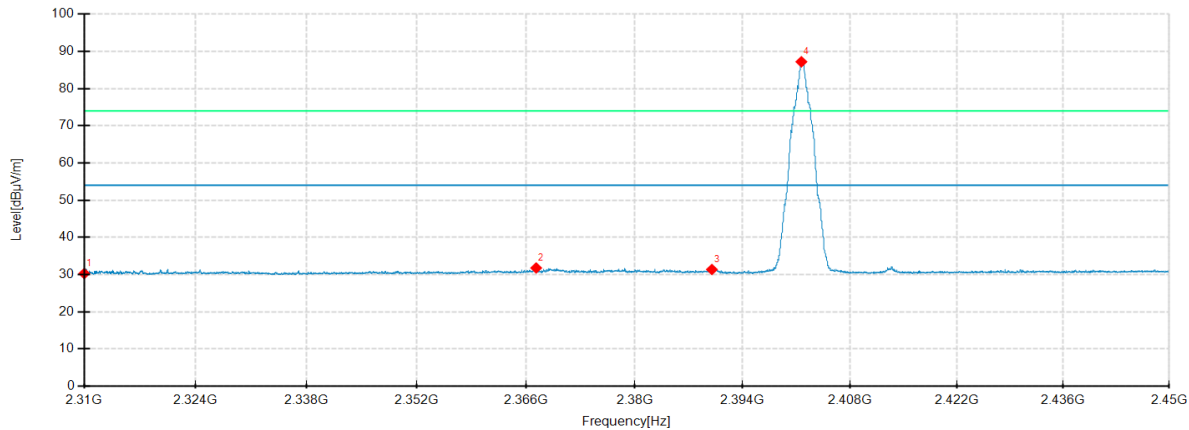
Lowest Frequency
Frequency 2402MHz
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

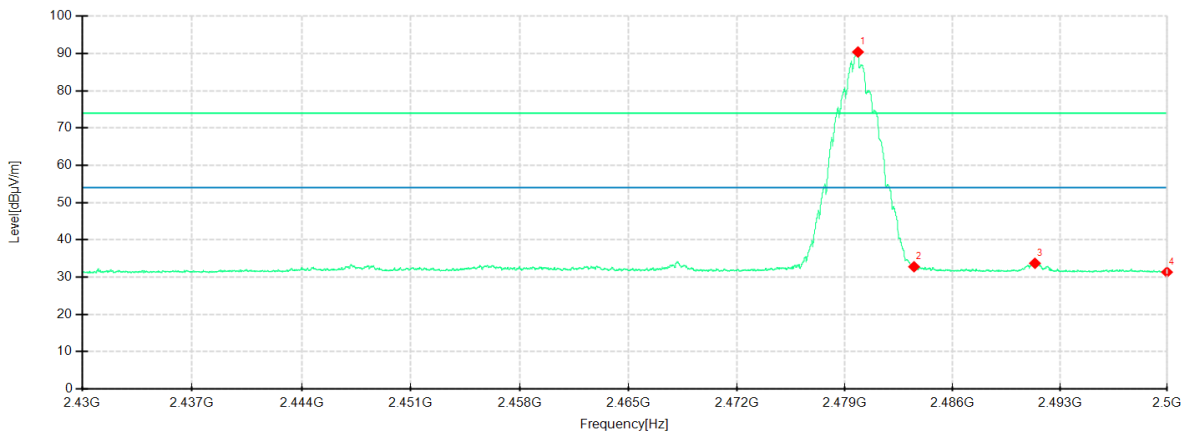
Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	34.63	28.73	-5.90	54.00	25.27	200	206	Horizontal	/
2	2384.8300	37.24	31.43	-5.81	54.00	22.57	200	206	Horizontal	/
3	2390.0000	36.98	31.25	-5.73	54.00	22.75	200	206	Horizontal	/
4	2401.8925	95.25	89.73	-5.52	54.00	-35.73	200	206	Horizontal	No limit
1	2310.0000	35.57	30.27	-5.30	54.00	23.73	100	194	Vertical	/
2	2367.3300	37.17	31.77	-5.40	54.00	22.23	100	144	Vertical	/
3	2390.0000	36.80	31.35	-5.45	54.00	22.65	100	257	Vertical	/
4	2401.6300	92.65	87.18	-5.47	54.00	-33.18	200	125	Vertical	No limit

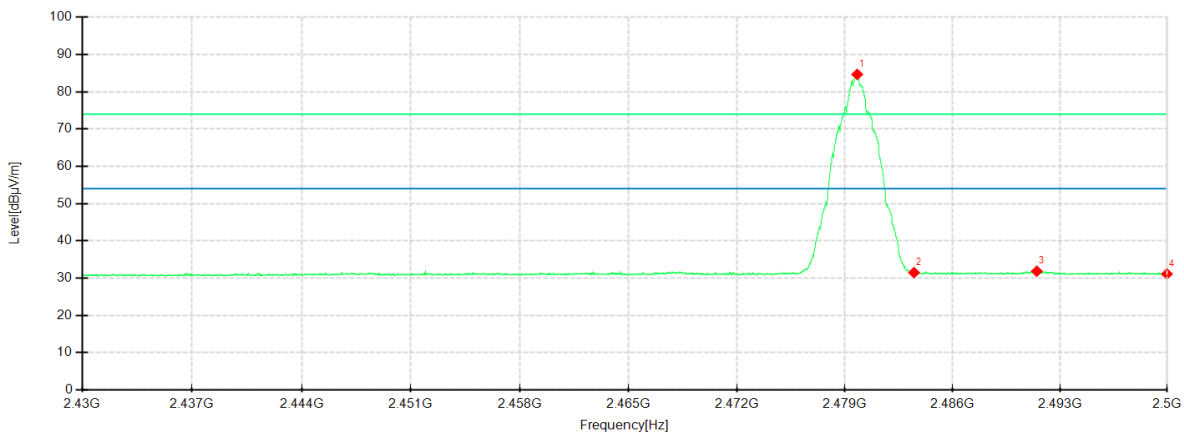
Highest Frequency
Frequency 2480MHz
Detector mode: Peak

Polarity: Horizontal



Detector mode: Peak

Polarity: Vertical



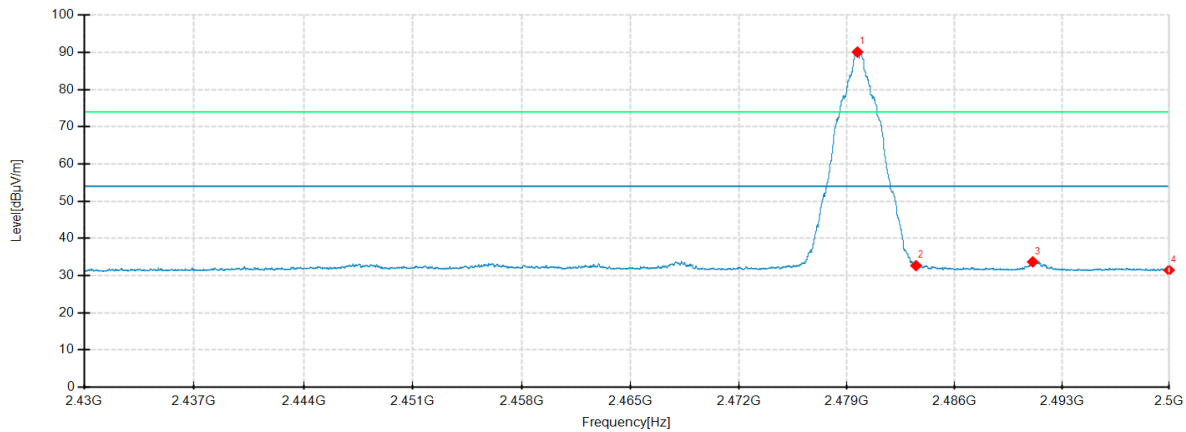
No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.8575	95.03	90.38	-4.65	74.00	-16.38	200	210	Horizontal	No limit
2	2483.5000	37.44	32.77	-4.67	74.00	41.23	200	210	Horizontal	/
3	2491.3725	38.43	33.70	-4.73	74.00	40.30	200	210	Horizontal	/
4	2500.0000	36.12	31.33	-4.79	74.00	42.67	100	212	Horizontal	/
1	2479.8050	89.79	84.64	-5.15	74.00	-10.64	100	259	Vertical	No limit
2	2483.5000	36.60	31.47	-5.13	74.00	42.53	100	348	Vertical	/
3	2491.4950	36.96	31.84	-5.12	74.00	42.16	100	234	Vertical	/
4	2500.0000	36.19	31.10	-5.09	74.00	42.90	100	171	Vertical	/

Highest Frequency

Frequency 2480MHz

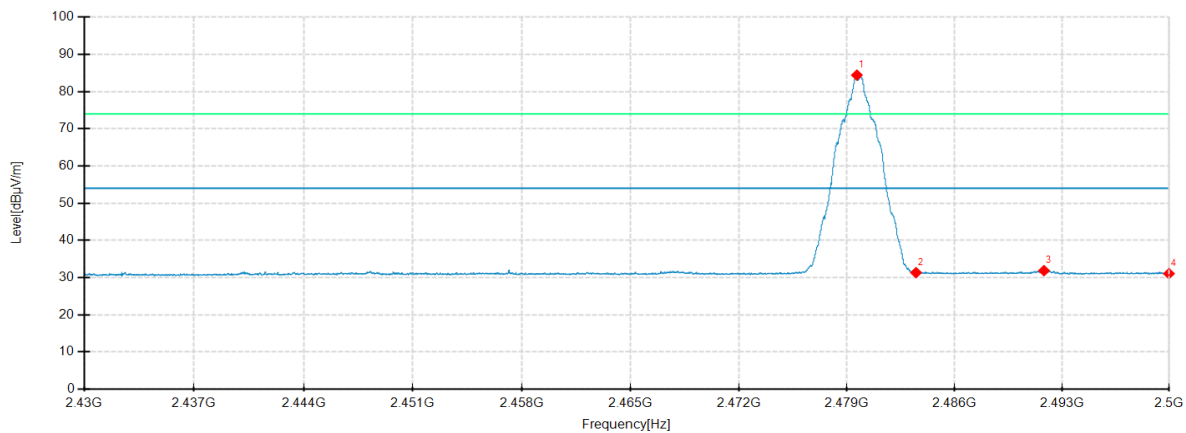
Detector mode: Average

Polarity: Horizontal



Detector mode: Average

Polarity: Vertical



No.	Frequency MHz	Reading dBμV/m	Level dBμV/m	Factor dB	Limit dBμV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2479.6913	94.73	90.08	-4.65	54.00	-36.08	200	207	Horizontal	No limit
2	2483.5000	37.32	32.65	-4.67	54.00	21.35	200	207	Horizontal	/
3	2491.1013	38.41	33.68	-4.73	54.00	20.32	200	207	Horizontal	/
4	2500.0000	36.22	31.43	-4.79	54.00	22.57	200	360	Horizontal	/
1	2479.6563	89.56	84.41	-5.15	54.00	-30.41	100	232	Vertical	No limit
2	2483.5000	36.45	31.32	-5.13	54.00	22.68	100	258	Vertical	/
3	2491.8363	36.97	31.85	-5.12	54.00	22.15	200	227	Vertical	/
4	2500.0000	36.13	31.04	-5.09	54.00	22.96	100	20	Vertical	/

Remark: Max field strength in 3m distance. No any other emission which falls in restricted bands can be detected and be reported.

APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E20240827121501-Test Photo-FCC&IC.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E20240827121501-EUT photo.

----- End of Report -----