Test Report

Verified code: 617798

Report No.: E202409184352-5

Customer:	Huizhou Foryou General Electronics Co., Ltd.
Address:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)
Sample Name:	Intelligent cabin controller
Sample Model:	HS7024
Receive Sample Date:	Sep.18,2024
Test Date:	Sep.26,2024 ~ Oct.02,2024
Reference Document:	47 CFR, FCC Part 15 Subpart C RADIO FREQUENCY DEVICES:Subpart C—Intentional Radiators
Test Result:	Pass

Prepared by: Wen Wenwen Reviewed by: Peng Huarui Approved by: Zhao Zetian

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2024-10-21

GRG METROLOGY & TEST GROUP CO., LTD.
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Statement

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5. This testing report is only for scientific research, teaching, internal quality control, etc.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E202409184352-5	Original Issue	2024-10-15

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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	N/A
§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 Internal antenna. The max gain of antenna is 4.98dBi.which accordance 15.203.is considered sufficient to comply with the provisions of this section.
2) N/A is not applied. The EUT is DC battery powered.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name:	Huizhou Foryou General Electronics Co., Ltd.
Address:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)

2.2 MANUFACTURER

Name:	Huizhou Foryou General Electronics Co., Ltd.
Address:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)

2.3 FACTORY

Name :	Huizhou Foryou General Electronics Co., Ltd.
Address :	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China(PROC)

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment:	Intelligent cabin controller
Model No.:	HS7024
Trade Mark:	ADAYO
FCC ID:	2AEIN-HS7024
Power Supply:	DC 12V
Battery:	Ni-MH BATTERY AA1000mAh, LTT-HS7012A, LTT-AAP1000X3 3.6V
Frequency Band:	2402MHz-2480MHz
Transmit Power:	GFSK for 1Mbps: 2.33dBm
Modulation type:	GFSK
Channel space:	2MHz
Antenna Specification:	Internal Antenna with 4.98dBi gain (Max)
Temperature Range:	-40℃~75℃
Voltage Range	9V~16V
Hardware Version:	B.0.1
Software Version:	SWC.0007
Sample submitting way:	■Provided by customer □Sampling

Sample No: E202409184352-0001, E202409184352-0002

Note:

1.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.

2. This EUT (Intelligent cabin controller) the model name HS7024 with High, Low two configuration. The two configuration have the same technical construction including circuit diagram, PCB LAYOUT, hardware version, software, except the High configuration with full function but the Low configuration without some functions as below table. These difference which are not affect the RF performance. So only tested the high configuration of HS7024.

HS7024 Function	Configuration	
	High	Low
4MIC port	Y	N
DMS port	Y	N
Ethernet port	Y	N
Support PTZ camera port	Y	N
Integrated projection headlights port	Y	N

2.5 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.

2.6 TEST OPERATION MODE

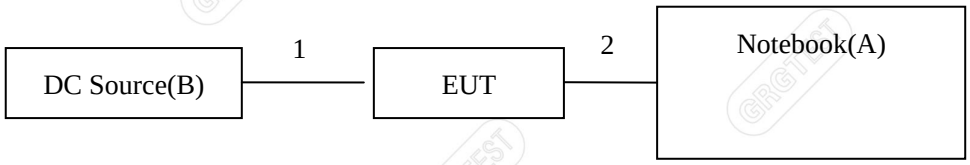
Mode No.	Description of the modes
1	Bluetooth (BLE) fixed frequency transmitting

2.7 LOCAL SUPPORTIVEINSTRUMENTS

No.	Name of Equipment	Manufacturer	Model	Serial Number
A	Notebook	DELL	Latitude3400	8RZFJW2
B	DC source	KEYSIGHT	E36131A	MY59001135

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	DC cable	1	No	0	0.8m
2	Serial cable	1	No	0	2.0m

2.8 CONFIGURATION OF SYSTEM UNDER TEST



Test software:

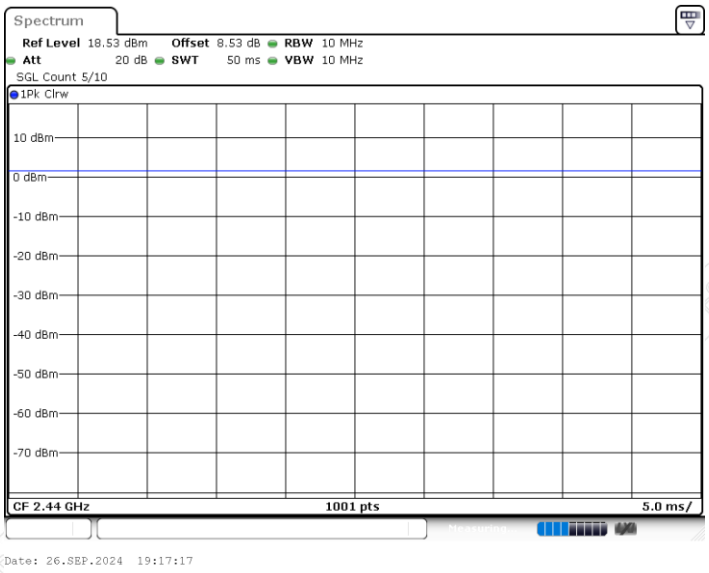
Software version	Test level
adb	default

2.9 DUTY CYCLE

Environment: 25.6℃/65%RH/101.0kPa Voltage: DC 12V
Tested By:Zhu rongting Date: 2024-09-26

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	DC [%]	T [s]
BLE_1M	Ant1	2440	50	50	100.00	/

BLE_1M _2440MHz



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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 Guanguang 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)

Copies of granted accreditation certificates are available for downloading from our web site, http://www.grgtest.com

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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)]

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℃

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
Preamplifier	SHIRONG ELECTRONIC	DLNA-30M1G-G40	20200928001	2025-01-30
Bi-log Antenna	Schwarzbeck	VULB9160	VULB9160-3402	2025-09-24
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2025-06-15
Test Receiver	R&S	ESR26	101758	2025-09-10
Spectrum Analyzer	Agilent	N9010A	MY52221469	2025-04-19
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2025-08-24
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	JS36-RE/2.5.1.5		
6dB Bandwidth &Conducted band edges and Spurious Emission &Power Spectral Density				
Spectrum Analyzer	R&S	FSV30	1321.3008K30 -104381-rH	2025-09-22
Automatic power test 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

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(μV/m)	Measurement distance(m)	Quasi-peak(dBμV/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 (dBμV/m). The Avg Limit=54+20*log(3/1)=63.54 (dBμV/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 ≥98%，set VBW≤RBW/100 (i.e.,10kHz) but not less than 10 Hz. If the EUT duty cycle is ＜98%，set VBW≥1/T, Where T is defined in section 2.9.

6.3 TEST SETUP

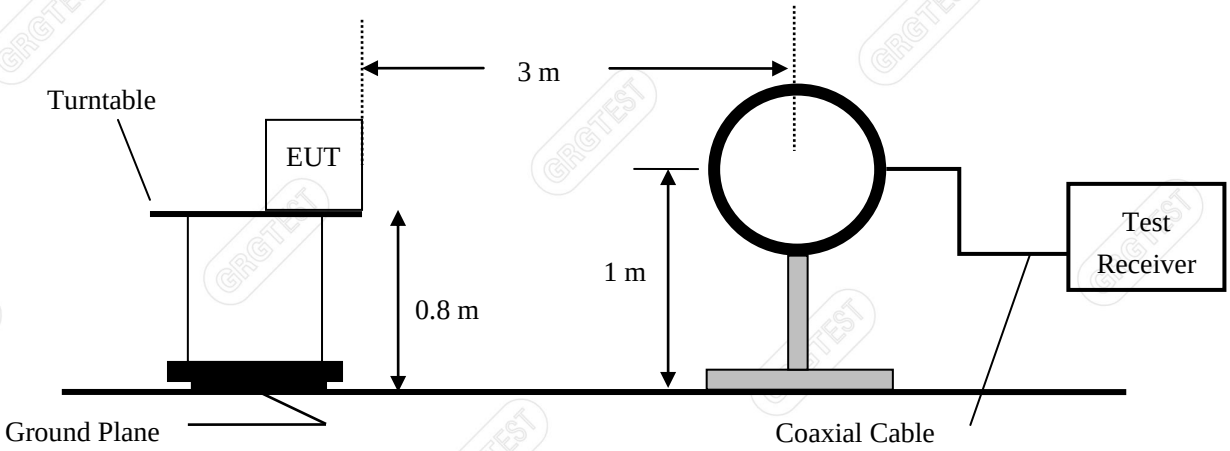

Figure 1. 9kHz to 30MHz radiated emissions test configuration

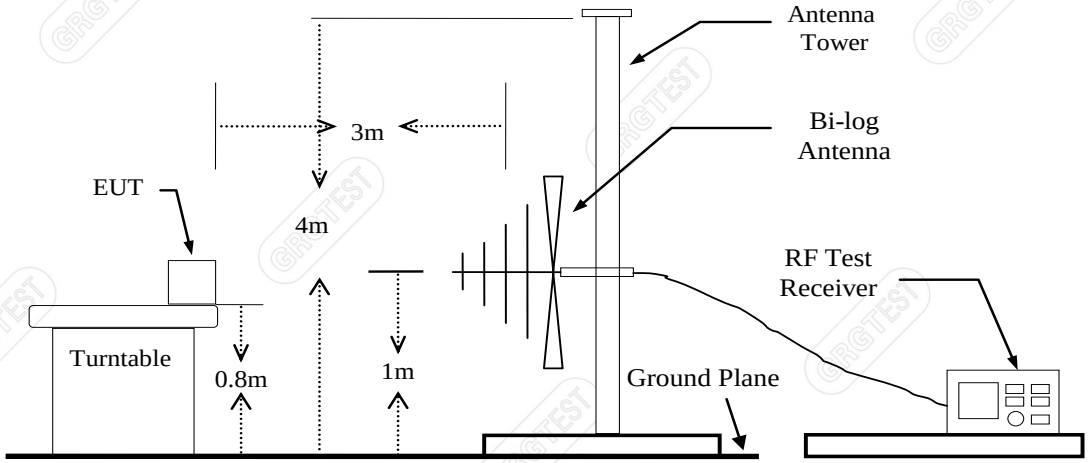

Figure 2. 30MHz to 1GHz radiated emissions test configuration

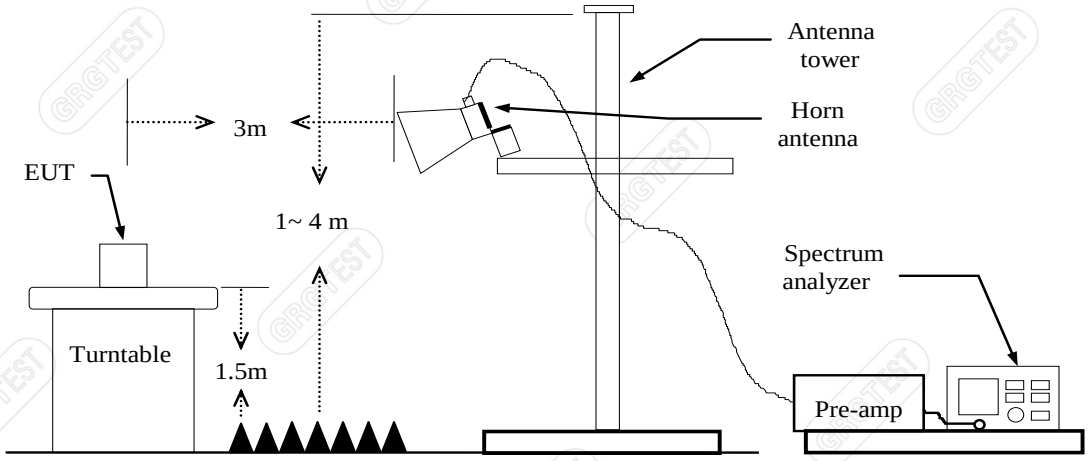

Figure 3. 1GHz to 18GHz radiated emissions test configuration

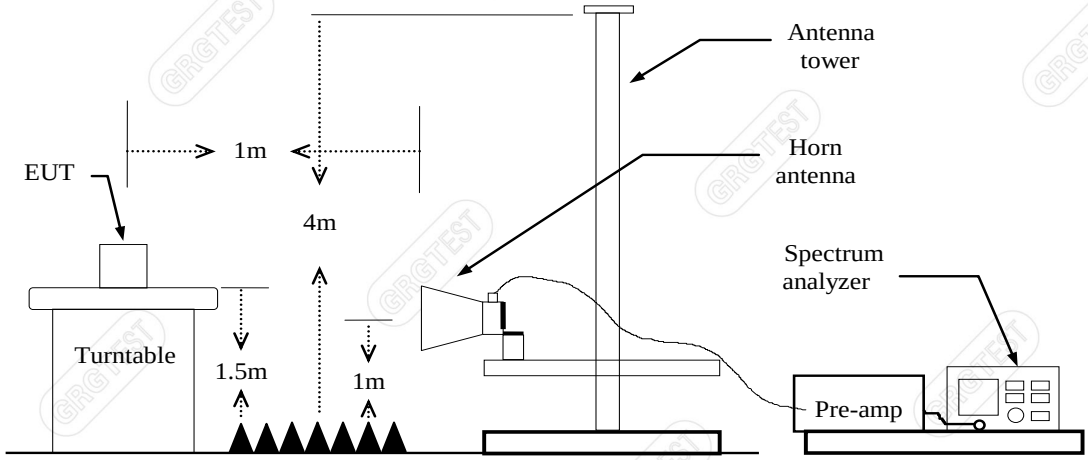

Figure 4. 18GHz to 26.5GHz radiated emissions test configuration

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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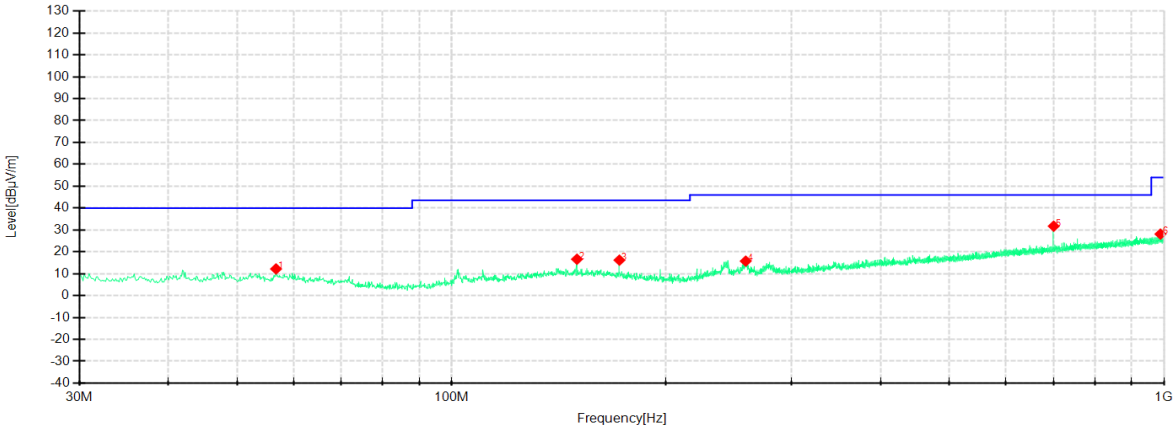
6.5 TEST RESULTS

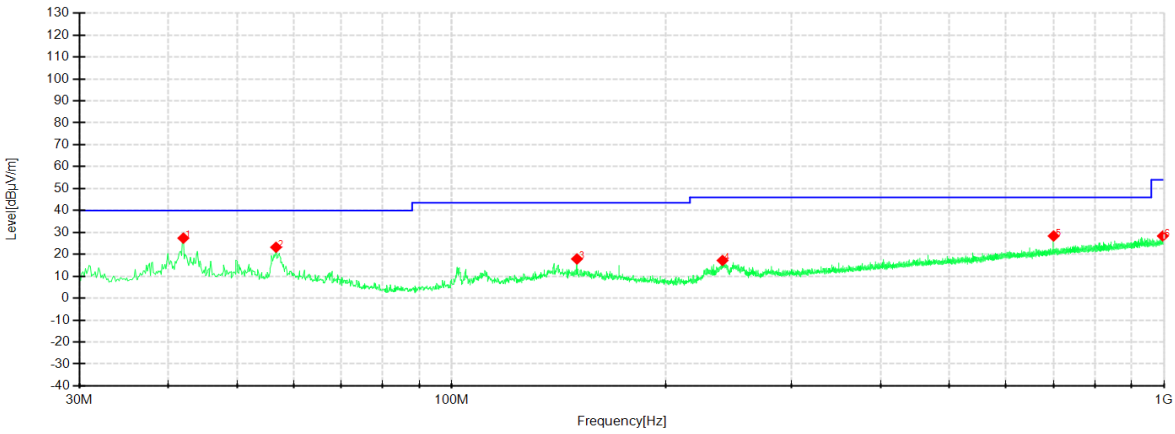
Below 1GHz

Note: Pre-scan all modes , only the worst case(TX_BLE_1M_2440MHz) is recorded, in this report.

Test Engineer:	Zhao yaru	Test Date:	2024-09-29
Power supply:	DC 12V	Environmental Conditions:	24.8℃/62%RH/101.0kPa



NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Trace	Height [cm]	Angle [°]	Polarity	Verdict
1	56.6783	41.48	12.19	-29.29	40.00	27.81	QP	100	313	Horizontal	PASS
2	149.9312	44.79	16.63	-28.16	43.50	26.87	QP	100	160	Horizontal	PASS
3	172.0015	45.37	16.20	-29.17	43.50	27.30	QP	200	138	Horizontal	PASS
4	258.7061	45.01	15.76	-29.25	46.00	30.24	QP	200	70	Horizontal	PASS
5	700.1113	49.65	31.72	-17.93	46.00	14.28	QP	100	173	Horizontal	PASS
6	988.6011	42.37	28.11	-14.26	54.00	25.89	QP	200	289	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	42.0053	56.61	27.40	-29.21	40.00	12.60	QP	100	214	Vertical	PASS
2	56.6783	52.52	23.23	-29.29	40.00	16.77	QP	100	72	Vertical	PASS
3	149.9312	46.06	17.90	-28.16	43.50	25.60	QP	100	46	Vertical	PASS
4	240.0313	46.85	17.21	-29.64	46.00	28.79	QP	100	20	Vertical	PASS
5	699.9900	46.30	28.37	-17.93	46.00	17.63	QP	200	45	Vertical	PASS
6	996.3620	42.48	28.38	-14.10	54.00	25.62	QP	100	20	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.

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1GHz-18GHz:

Mode: TX/ BLE_1M
Lowest Frequency (2402MHz) /
Environment: 24.8℃/62%RH/101.0kPa Voltage: DC 12V
Tested By: Zhao yaru Date: 2024-09-29

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2494.4000	47.14	46.72	-0.42	74.00	27.28	200	353	Horizontal
2	3157.5000	59.55	46.53	-13.02	74.00	27.47	100	122	Horizontal
3	5701.5000	55.94	50.66	-5.28	74.00	23.34	200	200	Horizontal
4	6750.0000	48.48	48.03	-0.45	74.00	25.97	200	170	Horizontal
5	7357.5000	45.98	47.72	1.74	74.00	26.28	200	155	Horizontal
6	9951.0000	40.18	49.10	8.92	74.00	24.90	200	139	Horizontal
7	2494.6000	36.69	36.26	-0.43	54.00	17.74	200	271	Horizontal
8	3157.5000	53.15	40.13	-13.02	54.00	13.87	100	122	Horizontal
9	5730.0000	46.87	41.87	-5.00	54.00	12.13	200	200	Horizontal
10	6750.0000	42.43	41.98	-0.45	54.00	12.02	200	170	Horizontal
11	7305.0000	37.55	38.96	1.41	54.00	15.04	200	155	Horizontal
12	9934.5000	30.63	39.42	8.79	54.00	14.58	200	155	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	1985.6000	48.60	44.66	-3.94	74.00	29.34	200	177	Vertical
2	2506.8000	47.57	46.92	-0.65	74.00	27.08	200	209	Vertical
3	3355.5000	55.43	42.33	-13.10	74.00	31.67	200	200	Vertical
4	5718.0000	53.80	48.92	-4.88	74.00	25.08	200	152	Vertical
5	6750.0000	46.49	46.24	-0.25	74.00	27.76	100	232	Vertical
6	9664.5000	39.34	47.48	8.14	74.00	26.52	100	167	Vertical
7	1995.0000	38.02	34.12	-3.90	54.00	19.88	100	160	Vertical
8	2502.2000	37.05	36.59	-0.46	54.00	17.41	200	209	Vertical
9	3358.5000	45.26	32.18	-13.08	54.00	21.82	200	184	Vertical
10	5734.5000	44.65	39.97	-4.68	54.00	14.03	200	152	Vertical
11	6750.0000	39.58	39.33	-0.25	54.00	14.67	100	232	Vertical
12	9687.0000	29.99	38.04	8.05	54.00	15.96	100	167	Vertical

Mode: TX/ BLE_1M
Middle Frequency (2440MHz)
Environment: 24.8℃/62%RH/101.0kPa Voltage: DC 12V
Tested By: Zhao yaru Date: 2024-09-29

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2472.2000	47.77	47.14	-0.63	74.00	26.86	100	146	Horizontal
2	3157.5000	61.50	48.48	-13.02	74.00	25.52	100	118	Horizontal
3	5766.0000	55.97	51.31	-4.66	74.00	22.69	200	196	Horizontal
4	6750.0000	48.35	47.90	-0.45	74.00	26.10	200	181	Horizontal
5	7332.0000	47.09	48.71	1.62	74.00	25.29	200	149	Horizontal
6	9844.5000	40.41	48.88	8.47	74.00	25.12	200	149	Horizontal
7	2494.8000	36.61	36.19	-0.42	54.00	17.81	200	21	Horizontal
8	3157.5000	52.38	39.36	-13.02	54.00	14.64	100	118	Horizontal
9	5737.5000	46.85	41.93	-4.92	54.00	12.07	200	212	Horizontal
10	6750.0000	40.85	40.40	-0.45	54.00	13.60	200	102	Horizontal
11	7308.0000	36.54	37.97	1.43	54.00	16.03	200	166	Horizontal
12	9940.5000	31.13	39.97	8.84	54.00	14.03	200	149	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	1885.4000	48.83	44.80	-4.03	74.00	29.20	100	179	Vertical
2	2503.4000	47.71	47.19	-0.52	74.00	26.81	200	196	Vertical
3	3157.5000	55.14	41.78	-13.36	74.00	32.22	100	324	Vertical
4	5695.5000	54.52	49.46	-5.06	74.00	24.54	200	149	Vertical
5	6750.0000	47.11	46.86	-0.25	74.00	27.14	100	211	Vertical
6	9894.0000	39.38	47.94	8.56	74.00	26.06	200	166	Vertical
7	1891.4000	37.58	33.69	-3.89	54.00	20.31	100	148	Vertical
8	2496.6000	37.07	36.62	-0.45	54.00	17.38	200	360	Vertical
9	3157.5000	46.40	33.04	-13.36	54.00	20.96	100	34	Vertical
10	5700.0000	44.69	39.60	-5.09	54.00	14.40	100	226	Vertical
11	6750.0000	39.00	38.75	-0.25	54.00	15.25	100	211	Vertical
12	9666.0000	29.72	37.86	8.14	54.00	16.14	100	162	Vertical

Mode: TX/ BLE_1M
Highest Frequency (2480MHz)
Environment: 24.8℃/62%RH/101.0kPa Voltage: DC 12V
Tested By: Zhao yaru Date: 2024-09-29

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2471.2000	47.48	46.84	-0.64	74.00	27.16	100	193	Horizontal
2	3157.5000	59.38	46.36	-13.02	74.00	27.64	100	106	Horizontal
3	5731.5000	56.49	51.51	-4.98	74.00	22.49	200	200	Horizontal
4	6750.0000	48.40	47.95	-0.45	74.00	26.05	200	169	Horizontal
5	7306.5000	46.40	47.82	1.42	74.00	26.18	200	154	Horizontal
6	9943.5000	40.43	49.30	8.87	74.00	24.70	200	138	Horizontal
7	2480.2000	40.43	39.87	-0.56	54.00	14.13	100	307	Horizontal
8	3157.5000	52.24	39.22	-13.02	54.00	14.78	100	122	Horizontal
9	5730.0000	47.22	42.22	-5.00	54.00	11.78	200	200	Horizontal
10	6750.0000	41.48	41.03	-0.45	54.00	12.97	200	107	Horizontal
11	7306.5000	36.89	38.31	1.42	54.00	15.69	200	154	Horizontal
12	9903.0000	31.36	39.87	8.51	54.00	14.13	200	154	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	2480.2000	48.08	47.24	-0.84	74.00	26.76	200	314	Vertical
2	3148.5000	55.16	41.78	-13.38	74.00	32.22	100	40	Vertical
3	5734.5000	54.30	49.62	-4.68	74.00	24.38	100	168	Vertical
4	6748.5000	45.12	44.87	-0.25	74.00	29.13	100	214	Vertical
5	9640.5000	39.67	47.71	8.04	74.00	26.29	100	168	Vertical
6	11775.0000	37.23	48.53	11.30	74.00	25.47	100	340	Vertical
7	2480.0000	41.14	40.30	-0.84	54.00	13.70	200	314	Vertical
8	3157.5000	47.34	33.98	-13.36	54.00	20.02	100	40	Vertical
9	5695.5000	44.79	39.73	-5.06	54.00	14.27	200	154	Vertical
10	6750.0000	38.92	38.67	-0.25	54.00	15.33	100	231	Vertical
11	9691.5000	30.01	38.05	8.04	54.00	15.95	200	169	Vertical
12	11827.5000	27.43	38.55	11.12	54.00	15.45	200	340	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_1M_2440MHz) in the worst power supply is recorded in this report.

Environment: 26.5℃/57%RH/101.0kPa Voltage: DC 12V
Tested By: Zhao yaru Date: 2024-10-02

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	19304.75	49.01	33.01	23.47	-16.00	74	50.53	100	200	Horizontal
2	20249.525	51.13	35.65	26.11	-15.48	74	47.89	100	160	Horizontal
3	20872.575	47.96	32.83	23.29	-15.13	74	50.71	200	19	Horizontal
4	22147.575	48	32.9	23.36	-15.10	74	50.64	100	301	Horizontal
5	22894.3	46.79	32.49	22.95	-14.30	74	51.05	100	301	Horizontal
6	24675.9	45.31	31.75	22.21	-13.56	74	51.79	200	118	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	19304.75	49.46	33.96	24.42	-15.50	74	49.58	100	1	Vertical
2	20249.525	50.11	35.03	25.49	-15.08	74	48.51	100	138	Vertical
3	21327.75	47.92	33.38	23.84	-14.54	74	50.16	200	97	Vertical
4	22675.425	46.67	32.73	23.19	-13.94	74	50.81	100	318	Vertical
5	24459.575	44.71	31.64	22.1	-13.07	74	51.90	100	178	Vertical
6	25369.075	44.72	31.66	22.12	-13.06	74	51.88	200	300	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. 6dB BANDWIDTH

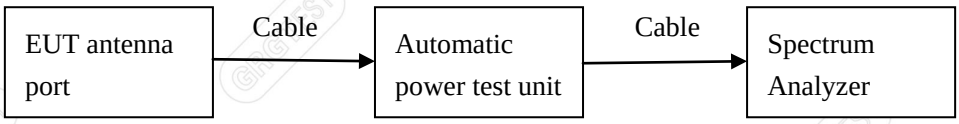
7.1 LIMITS

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.

7.2 TEST PROCEDURES

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

7.3 TEST SETUP

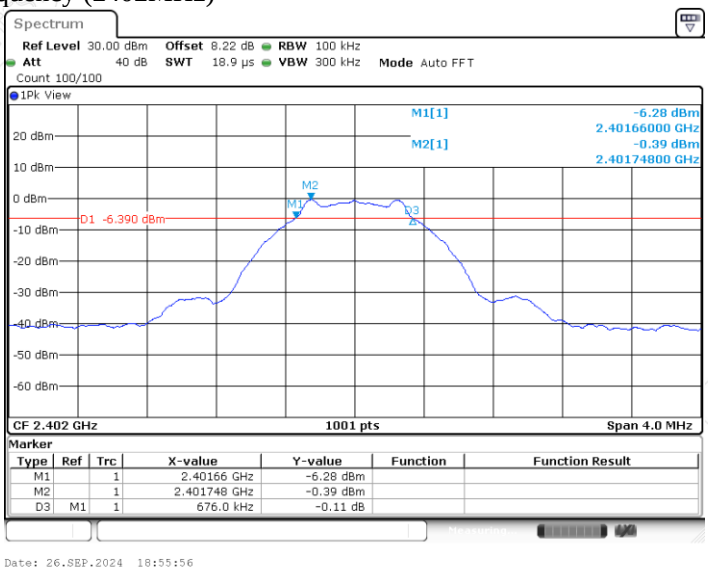


7.4 TEST RESULTS

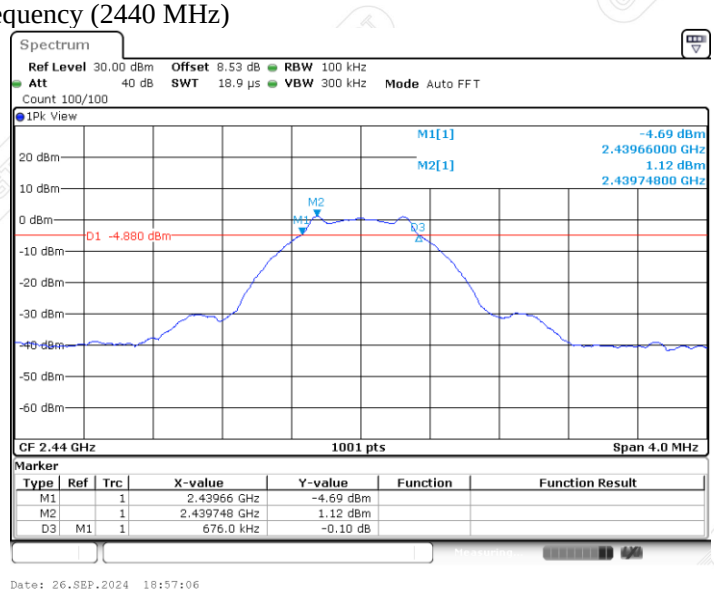
Environment: 25.6℃/65%RH/101.0kPa Voltage: DC 12V
Tested By:Zhu rongting Date: 2024-09-26

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Test Result
Lowest	2402	676	≥500	PASS
Middle	2440	676		PASS
Highest	2480	672		PASS

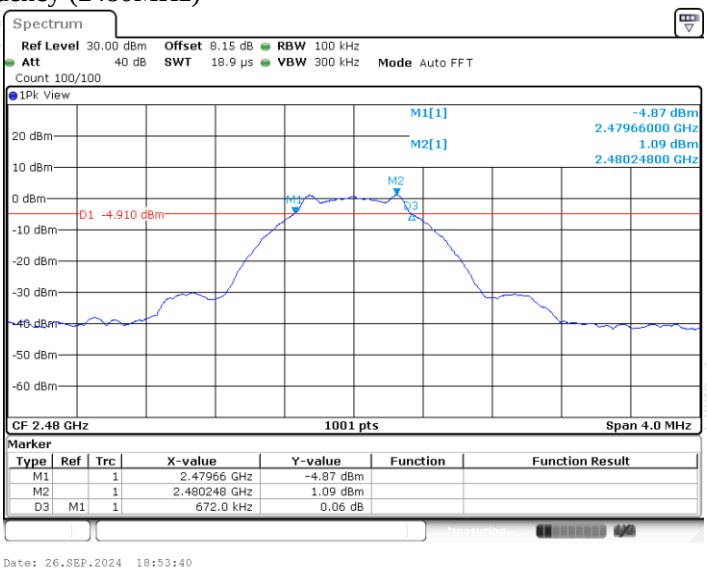
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)



Highest Frequency (2480MHz)



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8. MAXIMUM PEAK OUTPUT POWER

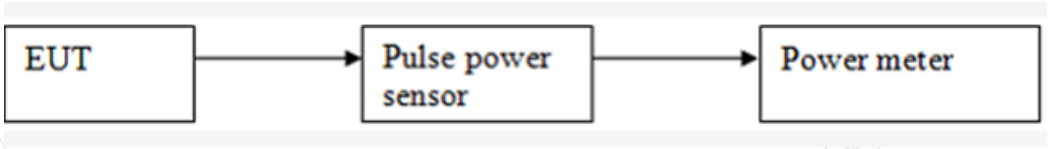
8.1 LIMITS

The maximum Peak output power measurement is 1W

8.2 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.

8.3 TEST SETUP



8.4 TEST RESULTS

Environment: 25.6℃/65%RH/101.0kPa Voltage: DC 12V
Tested By:Zhu rongting Date: 2024-09-26

Channel	Frequency (MHz)	Maximum Power (dBm)	Limit	Peak/ Average	Result
Lowest	2402	1.22	1W (30dBm)	Peak	Pass
Middle	2440	2.33			Pass
Highest	2480	2.27			Pass

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9. POWER SPECTRAL DENSITY

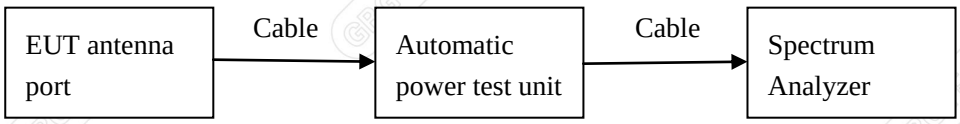
9.1 LIMITS

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.

9.2 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 kHz ≤ RBW ≤ 100 kHz.
   d) Set the VBW ≥ [3 × 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.

9.3 TEST SETUP

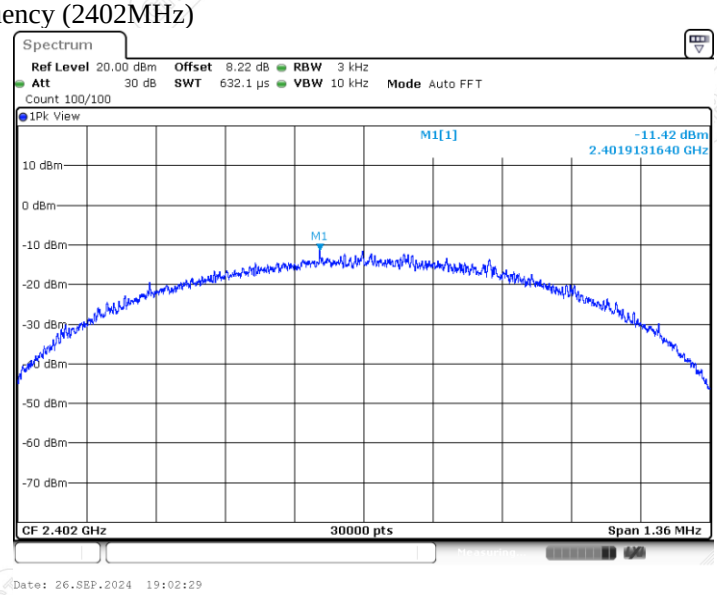


9.4 TEST RESULTS

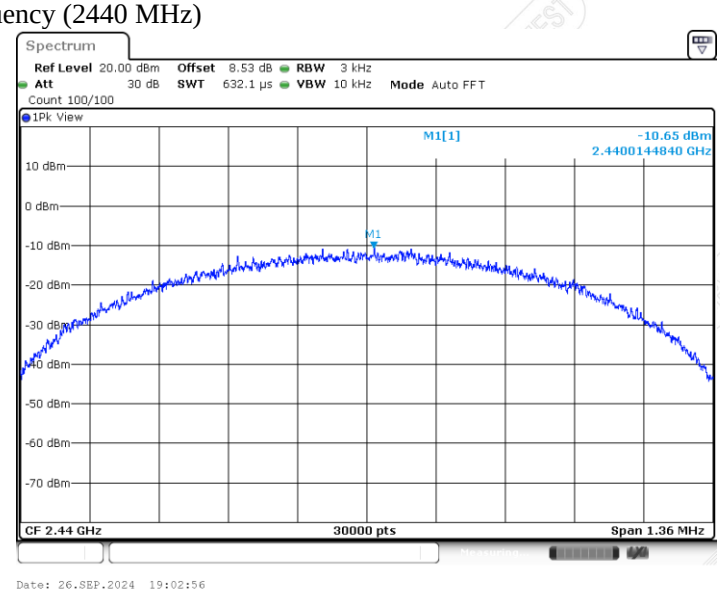
Environment: 25.6℃/65%RH/101.0kPa Voltage: DC 12V
Tested By:Zhu rongting Date: 2024-09-26

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Test Result
Lowest	2402	-11.42	8.00	PASS
Middle	2440	-10.65		PASS
Highest	2480	-11.08		PASS

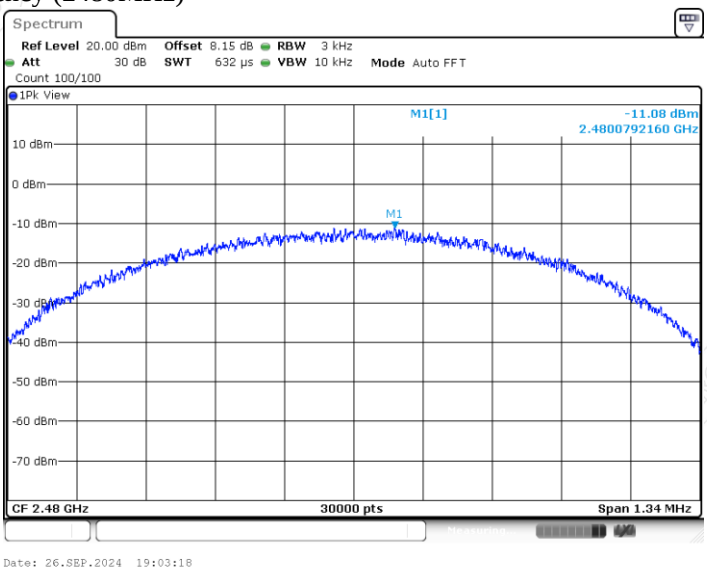
Lowest Frequency (2402MHz)



Middle Frequency (2440 MHz)



Highest Frequency (2480MHz)



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10. CONDUCTED BAND EDGES AND SPURIOUS EMISSIONS

10.1 LIMITS

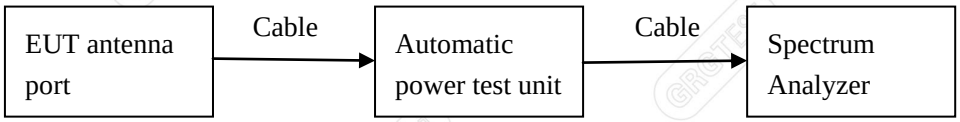
In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the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

10.2 TEST PROCEDURES

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

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

10.3 TEST SETUP



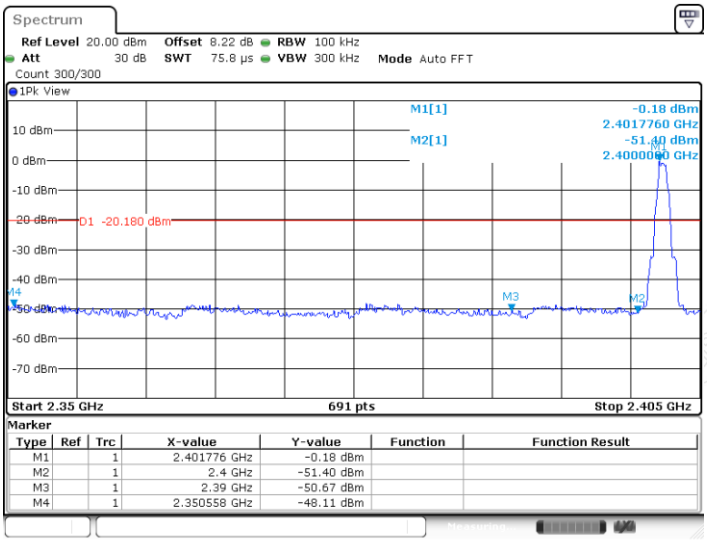
10.4 TEST RESULTS

Environment: 25.6℃/65%RH/101.0kPa Voltage: DC 12V
Tested By:Zhu rongting Date: 2024-09-26

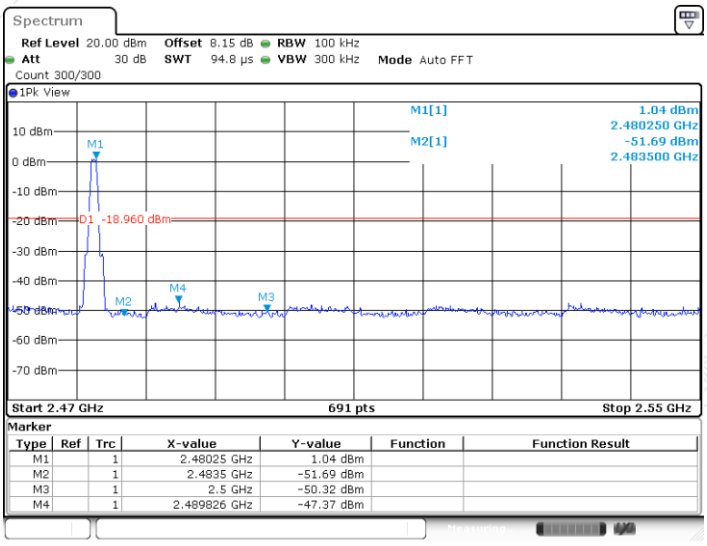
Band edge measurements

TestMode	Antenna	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.18	-48.11	≤-20.18	PASS
		High	2480	1.04	-47.37	≤-18.96	PASS

Lowest Frequency (2402MHz)
2.35GHz-2.405GHz



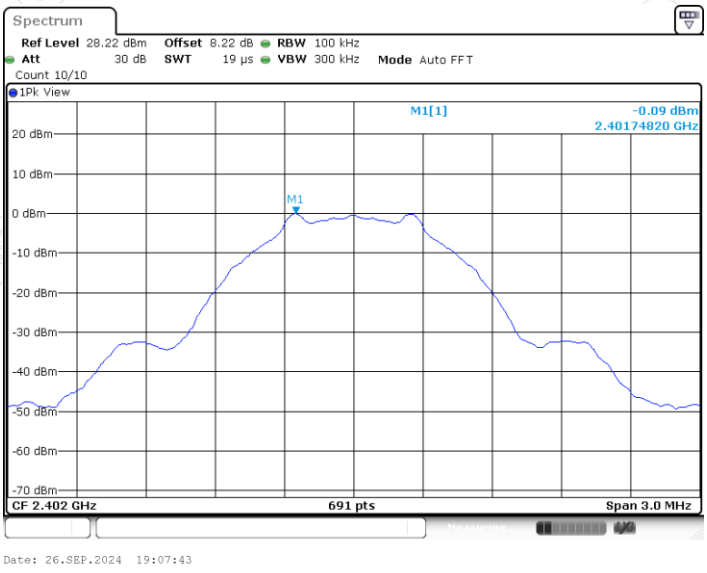
Highest Frequency (2480MHz)
2.47GHz-2.55GHz

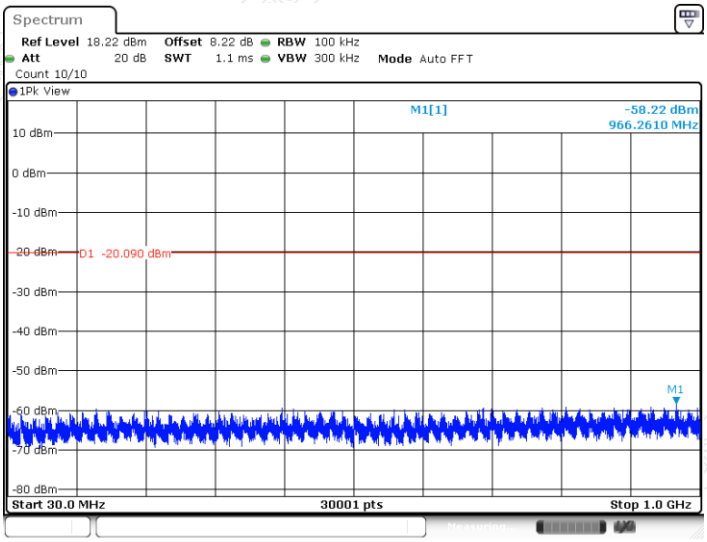


Conducted Spurious Emission

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.09	-0.09	---	PASS
			30~1000	-0.09	-58.22	≤-20.09	PASS
			1000~26500	-0.09	-44.66	≤-20.09	PASS
		2440	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-58.07	≤-18.61	PASS
			1000~26500	1.39	-44.36	≤-18.61	PASS
		2480	Reference	1.26	1.26	---	PASS
			30~1000	1.26	-57.95	≤-18.74	PASS
			1000~26500	1.26	-44.16	≤-18.74	PASS

Lowest Frequency (2402MHz)





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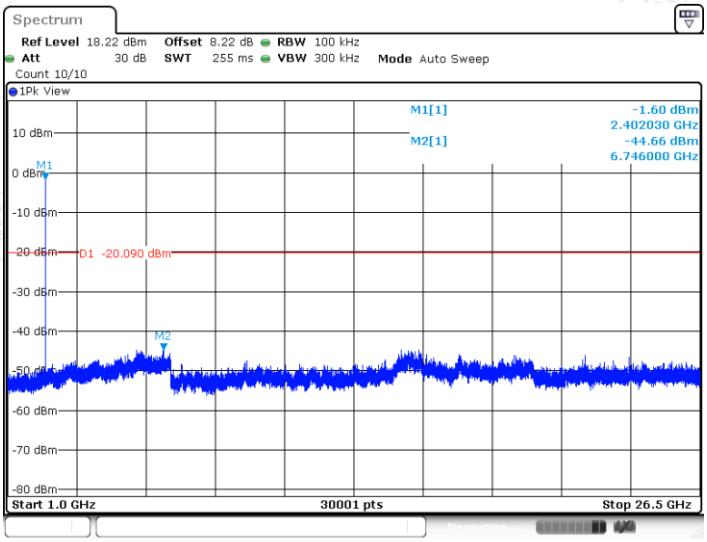
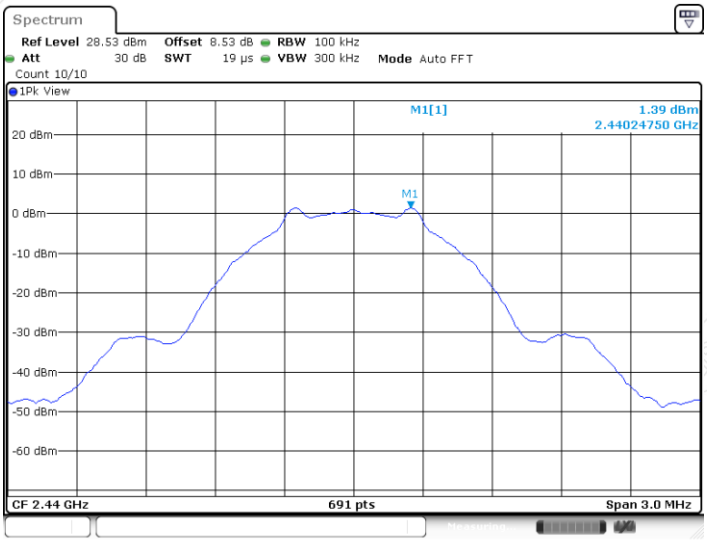
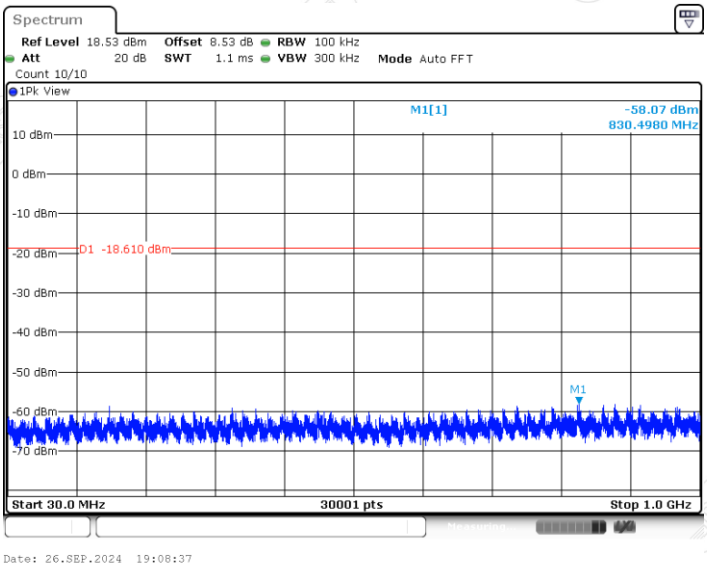
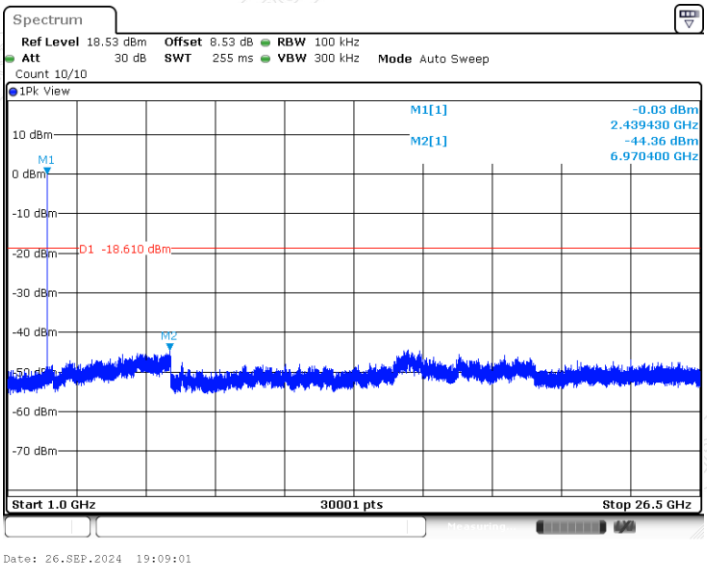


Date: 26.SEP.2024 19:08:11

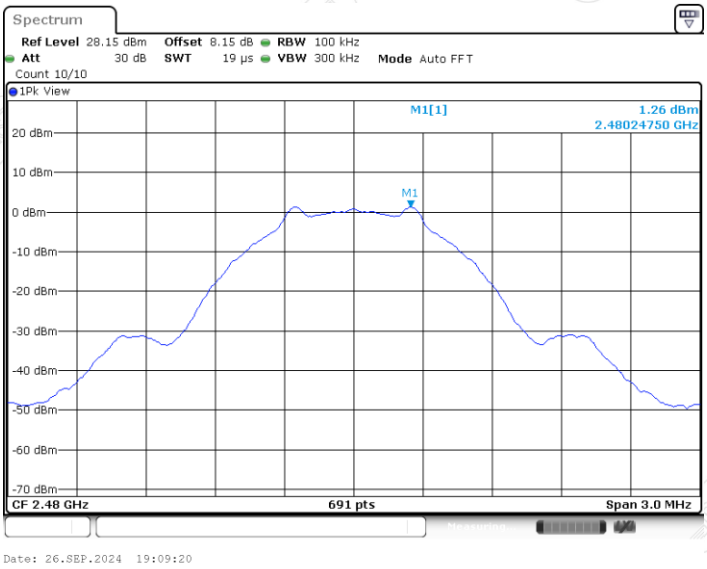
Middle Frequency (2440MHz)

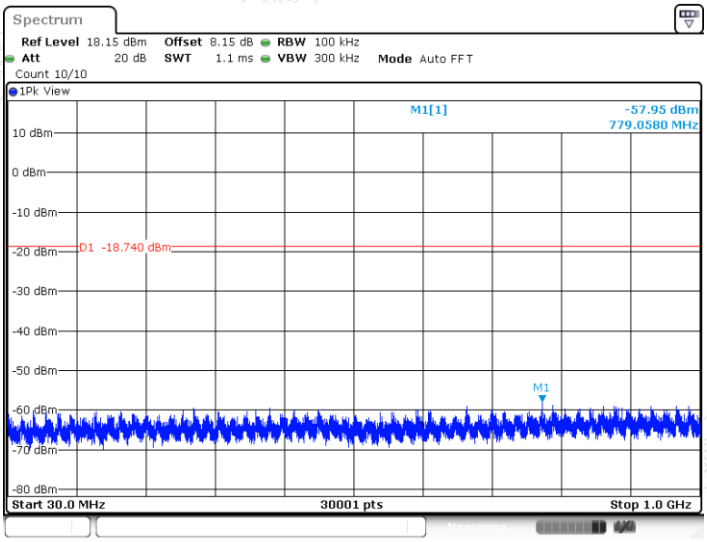




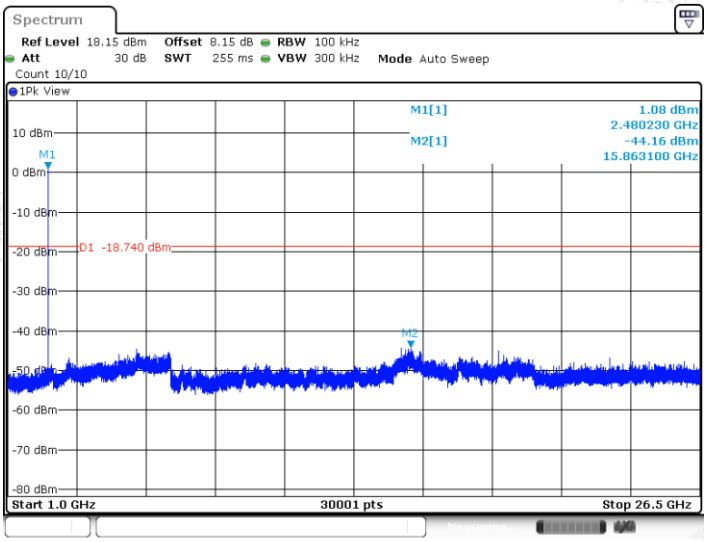


Highest Frequency (2480MHz)





Date: 26.SEP.2024 19:09:24



Date: 26.SEP.2024 19:09:48

11. RESTRICTED BANDS OF OPERATION

11.1 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)).

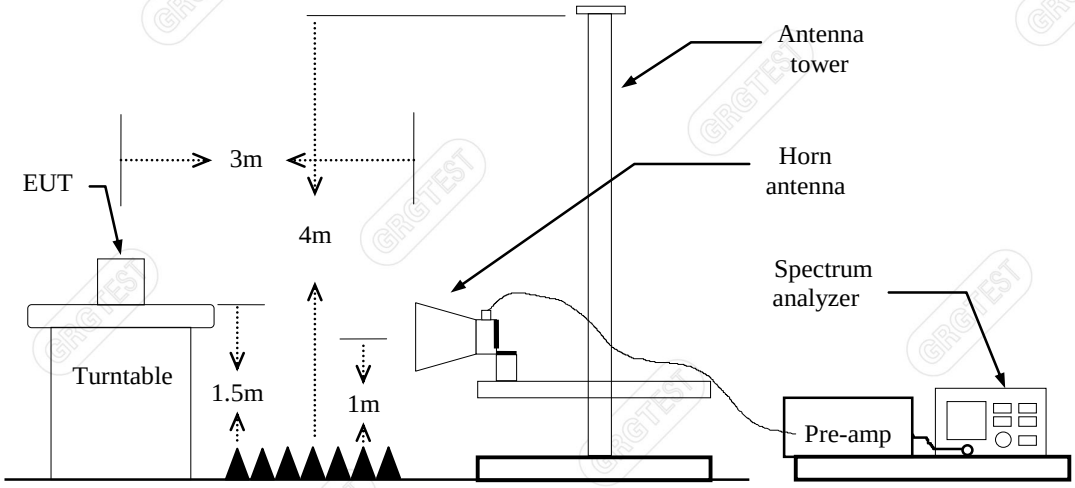
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 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(μV/m)	Measurement distance(m)	Quasi-peak(dBμV/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

11.2 TEST PROCEDURES

a) The EUT is placed on a turntable, which is 1.5m above the ground plane.
b) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
c) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
d) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
   a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO.
   b) AVERAGE: RBW=1MHz / VBW=1/T / Sweep=AUTO.
   If the EUT is configured to transmit with duty cycle ≥98%，set VBW≤RBW/100 (i.e.,10kHz) but not less than 10 Hz. If the EUT duty cycle is ＜98%，set VBW≥1/T, Where T is defined in section 2.9.
e) Repeat the procedures until all the PEAK and AVERAGE versus polarization are measured.

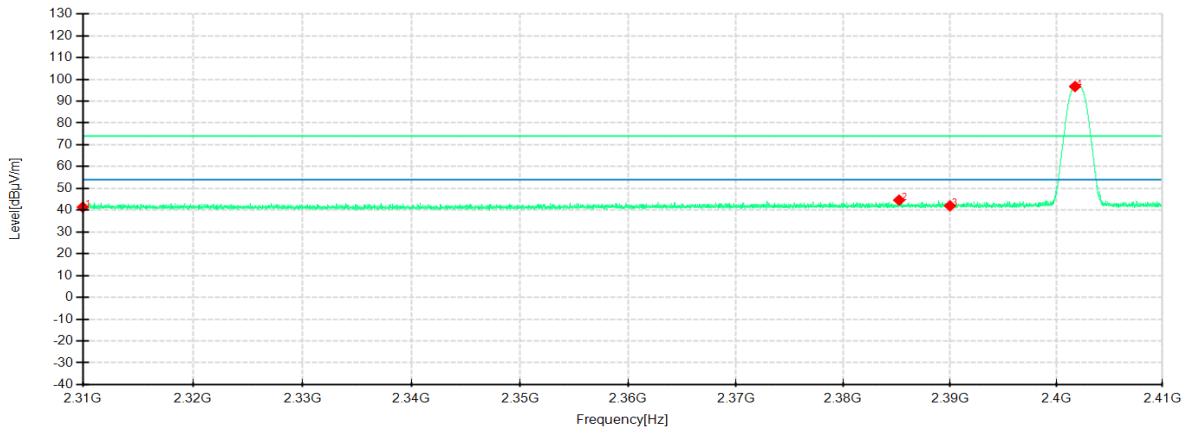
11.3 TEST SETUP



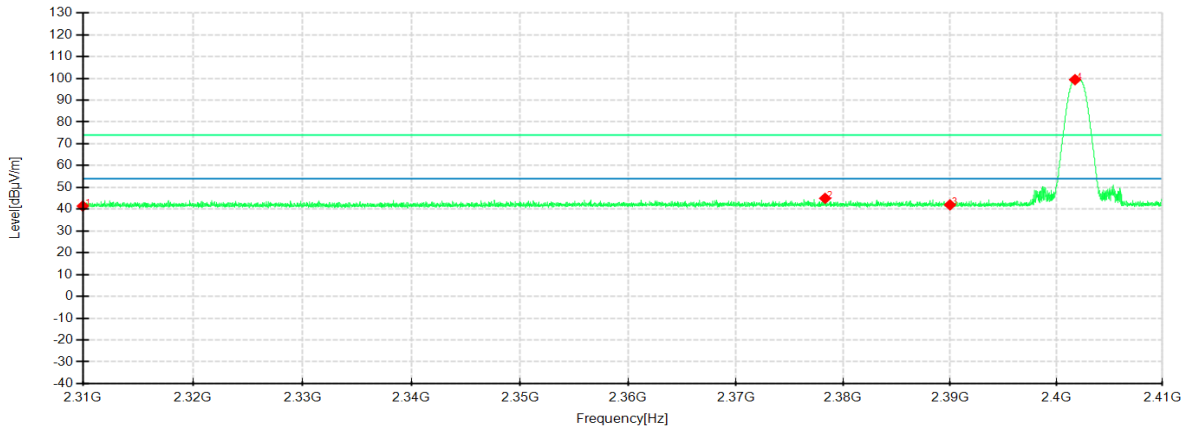
11.4 TEST RESULTS

Test Voltage:	DC 12V	Test Engineer:	Zhao yaru
Test Date	2024-10-01	Environmental Conditions	25.7℃/59%RH/101.0kPa

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

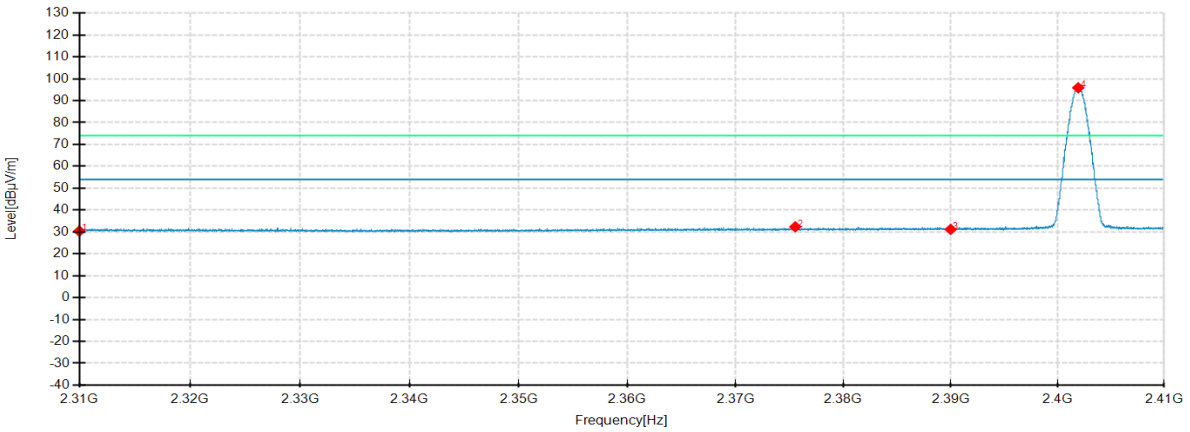


Detector mode: Peak Polarity: Vertical

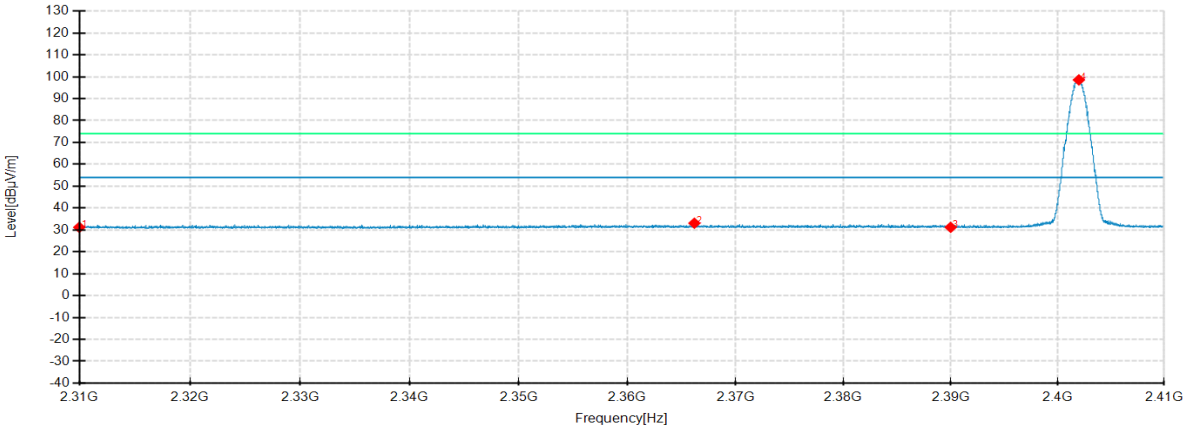


No.	Frequency MHz	Reading dBµV/m	Level dBµV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	46.88	41.40	-5.48	74.00	32.60	100	31	Horizontal	/
2	2385.2375	50.07	44.62	-5.45	74.00	29.38	100	237	Horizontal	/
3	2390.0000	47.40	42.01	-5.39	74.00	31.99	100	44	Horizontal	/
4	2401.7625	101.97	96.72	-5.25	74.00	-22.72	100	301	Horizontal	No limit
1	2310.0000	46.75	41.43	-5.32	74.00	32.57	100	226	Vertical	/
2	2378.3125	50.44	44.97	-5.47	74.00	29.03	100	111	Vertical	/
3	2390.0000	47.46	41.99	-5.47	74.00	32.01	200	120	Vertical	/
4	2401.7625	104.87	99.40	-5.47	74.00	-25.40	200	314	Vertical	No limit

Lowest Frequency
Frequency 2402MHz
Detector mode: Average Polarity: Horizontal

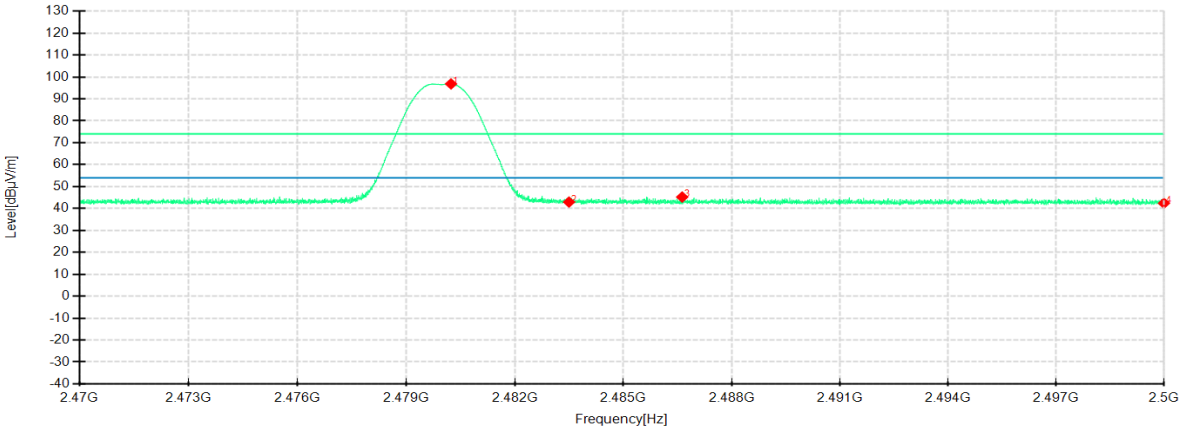


Detector mode: Average Polarity: Vertical

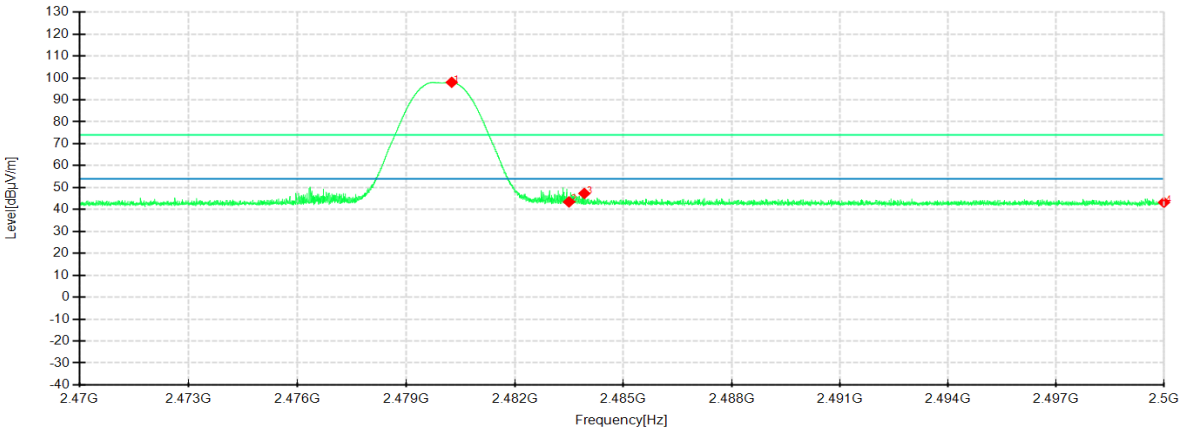


No.	Frequency MHz	Reading dBµV/m	Level dBµV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2310.0000	35.85	30.37	-5.48	54.00	23.63	100	58	Horizontal	/
2	2375.5375	37.92	32.36	-5.56	54.00	21.64	100	72	Horizontal	/
3	2390.0000	36.56	31.17	-5.39	54.00	22.83	200	71	Horizontal	/
4	2401.9375	101.10	95.86	-5.24	54.00	-41.86	100	313	Horizontal	No limit
1	2310.0000	36.52	31.20	-5.32	54.00	22.80	200	314	Vertical	/
2	2366.1875	38.54	33.07	-5.47	54.00	20.93	200	164	Vertical	/
3	2390.0000	36.67	31.20	-5.47	54.00	22.80	200	62	Vertical	/
4	2402.0000	104.03	98.57	-5.46	54.00	-44.57	200	314	Vertical	No limit

Highest Frequency
Frequency 2480MHz
Detector mode: Peak Polarity: Horizontal

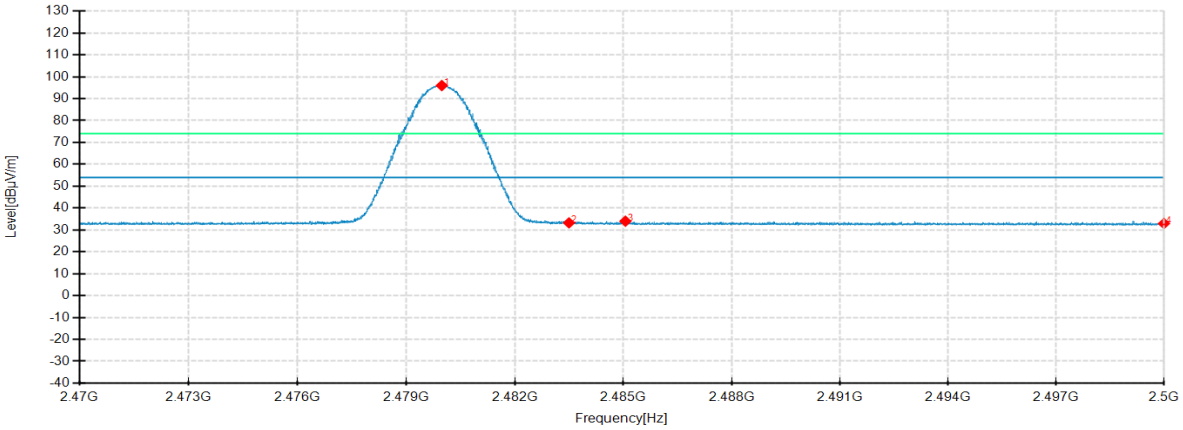


Detector mode: Peak Polarity: Vertical

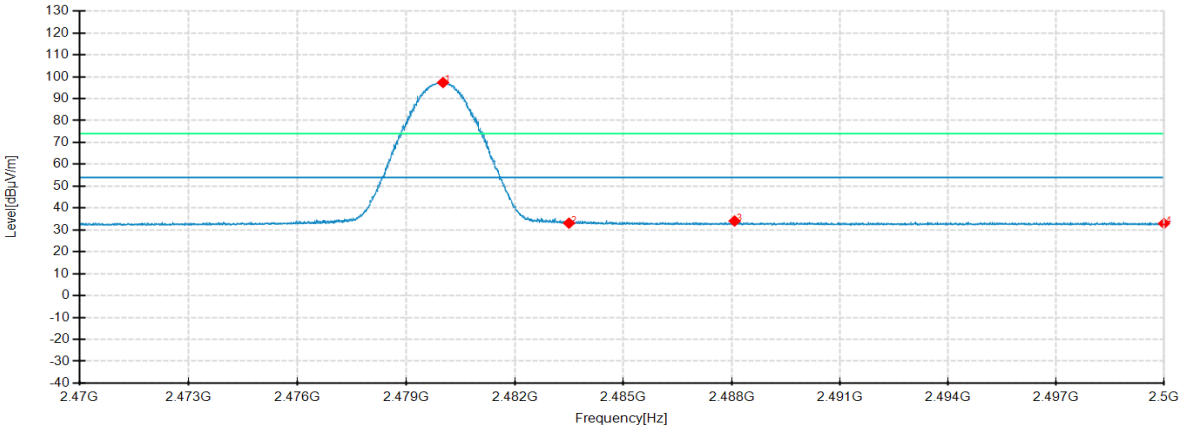


No.	Frequency MHz	Reading dBµV/m	Level dBµV/m	Factor dB	Limit dBuV/m	Margin dB	Height cm	Angle °	Pole	Remark
1	2480.2413	101.63	96.82	-4.81	74.00	-22.82	100	310	Horizontal	No limit
2	2483.5000	47.76	42.93	-4.83	74.00	31.07	100	126	Horizontal	/
3	2486.6313	50.08	45.21	-4.87	74.00	28.79	100	61	Horizontal	/
4	2500.0000	47.38	42.39	-4.99	74.00	31.61	100	113	Horizontal	/
1	2480.2600	103.09	98.00	-5.09	74.00	-24.00	200	314	Vertical	No limit
2	2483.5000	48.52	43.45	-5.07	74.00	30.55	100	360	Vertical	/
3	2483.9238	52.37	47.31	-5.06	74.00	26.69	200	301	Vertical	/
4	2500.0000	48.22	43.23	-4.99	74.00	30.77	100	19	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	2479.9863	100.78	95.97	-4.81	54.00	-41.97	100	314	Horizontal	No limit
2	2483.5000	38.06	33.23	-4.83	54.00	20.77	100	24	Horizontal	/
3	2485.0600	38.86	34.01	-4.85	54.00	19.99	200	47	Horizontal	/
4	2500.0000	37.91	32.92	-4.99	54.00	21.08	200	224	Horizontal	/
1	2480.0200	102.43	97.34	-5.09	54.00	-43.34	200	313	Vertical	No limit
2	2483.5000	38.18	33.11	-5.07	54.00	20.89	200	313	Vertical	/
3	2488.0825	39.13	34.08	-5.05	54.00	19.92	100	198	Vertical	/
4	2500.0000	37.90	32.91	-4.99	54.00	21.09	200	149	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 E202409184352-test setup photo.

APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E202409184352-EUT photo.

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