

Test Report

Verified code: 751267

Report No.: E202211303743-2

Customer: CHANGSHA SUNVOTE LIMITED

Address: Room1024, Building A, Biaozi Business Center No. 198 Xiang Fu Road, Changsha, China

Sample Name: Base Station

Sample Model: E100

Receive Sample Date: Dec.02,2022

Test Date: Dec.14,2022 ~ Dec.30,2022

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

Test Result: Pass

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Approved by: Xiao Liang

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Issued Date: 2023-01-17

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E202211303743-2	Original Issue	2022-12-30

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1. TEST RESULT SUMMARY

CFR 47, FCC Part 15 Subpart C ANSI C63.10:2013		
Standard	Test Item	Result
§15.249(a), §15.249(c)	Spurious Emissions	Pass
§15.215(c)	20dB bandwidth	Pass
§15.249(d)	Restricted bands	Pass
§15.203	Antenna Requirement	Pass
§15.207(a)	Conducted Emission	Pass

Note : The antenna type is an integrated antenna, which meets the requirements according to 15.203.

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2. GENERAL DESCRIPTION OF DUT

2.1 APPLICANT

Name: CHANGSHA SUNVOTE LIMITED
Address: Room1024, Building A, Biaozi Business Center No. 198 Xiang Fu Road,
Changsha, China

2.2 MANUFACTURER

Name: CHANGSHA SUNVOTE LIMITED
Address: Room1024, Building A, Biaozi Business Center No. 198 Xiang Fu Road,
Changsha, China

2.3 FACTORY

Name: CHANGSHA SUNVOTE LIMITED
Address: Room1024, Building A, Biaozi Business Center No. 198 Xiang Fu Road,
Changsha, China

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Base Station
Model No.: E100
Adding Model: IRSRF-25B, RPI-1200 ,RF-25B
Models Difference: The EUT E100,serial model IRSRF-25B,RPI-1200 and RF-25B are the same products.They have the same software and hardware constructions including circuit diagram,PCB layout,and even electrical parts,except model names exclusively,as they would distribute in different regions to satisfy subdividing market demands.
Trade Name: SunVote
FCC ID: 2AMJJSUNVOTEBASEE1
Power Supply: DC 5V
Frequency Range: 2403MHz~2482MHz
Transmit Power: ANT1:
Peak: 84.43dBuV/m (Max.)
Average: 63.05dBuV/m (Max.)
ANT2:
Peak: 83.84dBuV/m (Max.)
Average: 51.11dBuV/m (Max.)
Type of Modulation: GFSK
Antenna Specification: ANT1:
PCB antenna with -3.4dBi gain (Max.)
ANT2:
PCB antenna with -3.4dBi gain (Max.)
Temperature Range: -20 ℃ ~ +70 ℃
Hardware Version: H10
Software Version: 1.3.0
Sample No: E202211303743-0001, E202211303743-0002
Note: The smart antenna of EUT can not transmit simultaneously.

2.5 TEST OPERATION MODE

Mode No.	Description of the modes
1	Continuously Transmitting

2.6 FREQUENCY BAND AND THE TEST FREQUENCY

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404	2	2406	3	2408	4	2410
5	2412	6	2414	7	2416	8	2418
9	2420	10	2422	11	2424	12	2426
13	2428	14	2430	15	2432	16	2434
17	2436	18	2438	19	2440	20*	2442
21	2444	22	2446	23	2448	24	2450
25	2452	26	2454	27	2456	28	2458
29	2460	30	2462	31	2464	32	2466
33	2468	34	2470	35	2472	36	2474
37	2476	38	2478	39	2480	40*	2482
41*	2403	42	2405	43	2407	44	2409
45	2411	46	2413	47	2415	48	2417
49	2419	50	2421	51	2423	52	2425
53	2427	54	2429	55	2431	56	2433
57	2435	58	2437	59	2439	60	2441
61	2443	62	2445	63	2447	64	2449
65	2451	66	2453	67	2455	68	2457
69	2459	70	2461	71	2463	72	2465
73	2467	74	2469	75	2471	76	2473
77	2475	78	2477	79	2479	80	2481

Note: 20* & 40* & 41* is the test channel.

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3. LABORATORY AND MEASUREMENT UNCERTAINTY

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test 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 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	Horizontal	9kHz~30MHz	5.1dB
		30MHz~200MHz	4.5dB
		200MHz~1000MHz	4.4dB
		1GHz~18GHz	5.6dB
		18GHz~26.5GHz	3.65dB
	Vertical	9kHz~30MHz	5.1dB
		30MHz~200MHz	4.4dB
		200MHz~1000MHz	4.5dB
		1GHz~18GHz	5.6dB
		18GHz~26.5GHz	3.65dB
Conduction Emission		150kHz~30MHz	3.4 dB

Measurement	Uncertainty
Occupied channel bandwidth	0.4 dB

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

4. EQUIPMENT AND TOOLS USED DURING TEST

4.1 LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Radiated Spurious Emission & Restricted bands of operation				
Test S/W	EZ	CCS-03A1		
Loop Antenna	TESEQ	HLA6121	52599	2023-04-02
Test Receiver	R&S	ESR7	102444	2023-09-02
Preamplifier	EMEC	EM330	I00426	2023-03-05
Bi-log Antenna	TESEQ	CBL6143A	26039	2024-10-23
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2023-10-15
Test Receiver	R&S	ESR26	101758	2023-10-27
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2023-10-14
Amplifier	Tonscend	TAP01018048	AP20E8060075	2023-05-05
Amplifier	Tonscend	TAP184050	AP20E806071	2023-05-05
Amplifier	SHIRONG ELECTRONIC	DLNA-1G18G-G 40	20200928005	2023-05-08
Test S/W	Tonscend	JS32-RE/2.5.2.4		
20 dB Bandwidth				
Spectrum Analyzer	Agilent	N9020A	MY50510140	2023-10-19
Conduction Emission				
EZ-EMC	EZ	CCS-3A1-CE	/	/
EMI Receiver	R&S	ESCI	100783	2023-08-28
LISN(EUT)	R&S	ENV216	101543	2023-09-13

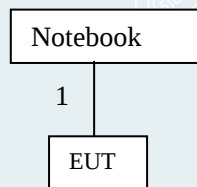
Note: The calibration interval of the above test instruments is 12 months except Bi-log Antenna, The calibration interval of the Bi-log Antenna is 24 months.

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4.2 LOCAL SUPPORTIVE

Name of Equipment		Manufacturer	Model	Serial Number	Note
Notebook		DELL	Latitude3490	2095LR2	/
Cable					
No.	Name of Equipment	Manufacturer	Model	Serial Number	Note
1	USB extension cable	/	/	/	Unshielded, 1.50m

4.3 CONFIGURATION OF SYSTEM UNDER TEST



4.4 TEST SOFTWARE

Software version	Test level
SDK SunVote ARSTT	Default

5. RADIATED SPURIOUS EMISSIONS

5.1 LIMITS

The field strength of fundamental and harmonic emissions, measured at 3 m, shall not exceed 50 mV/m and 0.5 mV/m respectively.

Fundamental Frequency	Field Strength of Fundamental Field Strength (mV/m)	Field Strength of Harmonics (μ V/m)
902-928 MHz	50	500
2400 - 2483.5 MHz	50	500
5725 - 5875 MHz	50	500

Except where otherwise indicated in the applicable FCC, radiated emissions shall comply with the field strength limits shown in table 5 and table 6. Additionally, the level of any transmitter unwanted emission shall not exceed the level of the transmitter's fundamental emission.

Table 5

Frequency (MHz)	Magnetic field strength (H Field) (μ A/m)	Measurement Distance (m)
0.009-0.490	6.37/F (F in kHz)	300
0.490-1.705	63.7/F (F in kHz)	30
1.705-30.0	0.08	30

Table 6

Frequency (MHz)	Field Strength (μ V/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Restricted band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	1435 - 1626.5	4.5 – 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	1645.5 - 1646.5	5.35 – 5.46
2.1735 - 2.1905	16.80425 - 16.80475	1660 - 1710	7.25 -7.75
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	8.025 -8.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	2483.5 - 2500	10.6 - 12.7
6.26775 - 6.26825	108 – 121.94	2690 - 2900	13.25 - 13.4
6.31175 - 6.31225	123 – 138	3260 - 3267	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	3332 - 3339	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	3345.8 - 3358	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	3600 - 4400	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17		23.6 - 24.0
12.29 - 12.293	167.72 - 173.2		31.2 - 31.8
12.51975 - 12.52025	240 - 285		36.43 - 36.5
12.57675 - 12.57725	322 - 335.4		Above 38.6
13.36 - 13.41	399.9 – 410		
	608 – 614		
	960 - 1240		
	1300 - 1427		

5.2 TEST PROCEDURES

1) Sequence of testing 9 kHz to 30 MHz

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 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables are placed on the table and operate in fixed-frequency mode for continuous transmission.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates continuously from 0 to 360 °.
- The antenna height is 1 meter.
- 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 QPK 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.

2) Sequence of testing 30 MHz to 1 GHz**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 0.8 m 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 are placed on the table and operate in fixed-frequency mode for continuous transmission.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates continuously 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 premeasurement the software maximize the peaks by changing turntable position (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 premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 18 GHz**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 are placed on the table and operate in fixed-frequency mode for continuous transmission.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates continuously 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 premeasurement the software maximize the peaks by changing turntable position (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.

**4) Sequence of testing above 18 GHz
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 are placed on the table and operate in fixed-frequency mode for continuous transmission.
- The measurement distance is 1 meter.
- The EUT was set into operation.

Pre measurement:

- The antenna is moved spherical over the EUT in different polarisations of the antenna.

Final measurement:

- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the Scan the test chart with Peak and Average detector.
- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the Scan the test chart and the limit will be stored.

NOTE:

- (a).The frequency from 9kHz to 150kHz, Set RBW=300Hz(for Peak&AVG), RBW=300Hz(for Peak&AVG).
the frequency from 150kHz to 30MHz, Set RBW=9kHz, RBW=9kHz, (for QP Detector).
- (b).The frequency from 30MHz to 1GHz, Set RBW=120kHz, RBW=300kHz, (for QP Detector).
- (c).The frequency above 1GHz, for Peak detector: Set RBW=1MHz, RBW=3MHz.
- (d).The frequency above 1GHz, for AVG Level value=Peak Level value + Duty Cycle Factor.
- (e). Duty Cycle Factor= $20 \cdot \log(\text{Duty Cycle})$.

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5.3 TEST SETUP

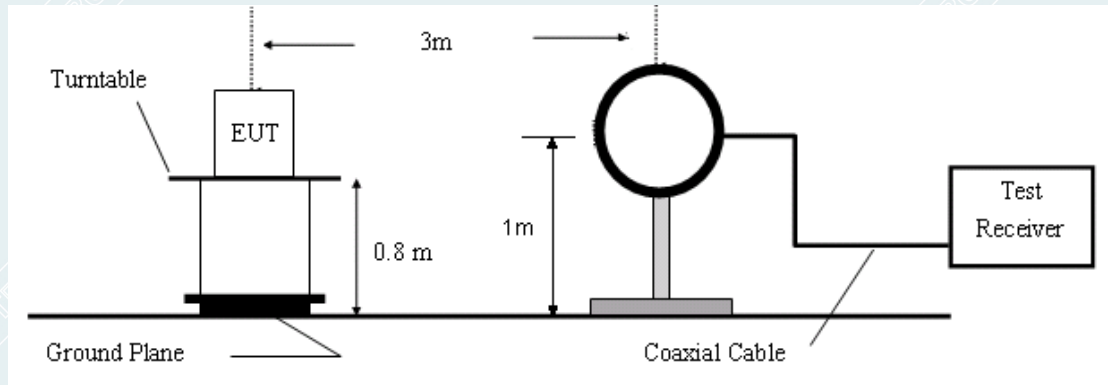


Figure 1. 9kHz to 30MHz radiated emissions test configuration

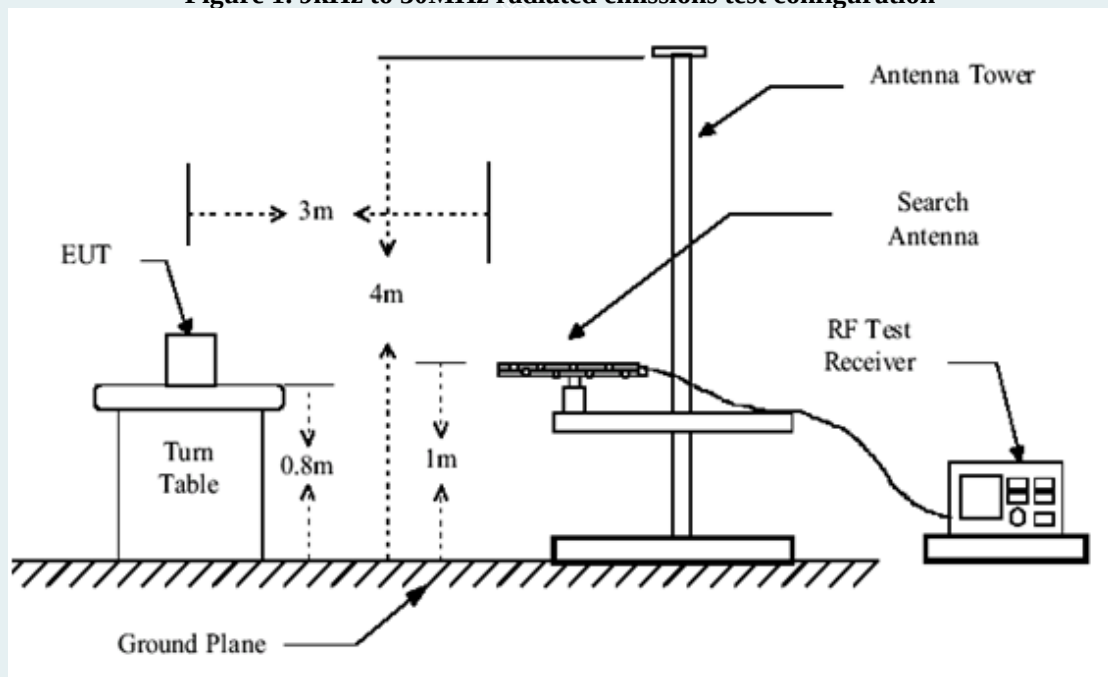


Figure 2. 30MHz to 1GHz radiated emissions test configuration

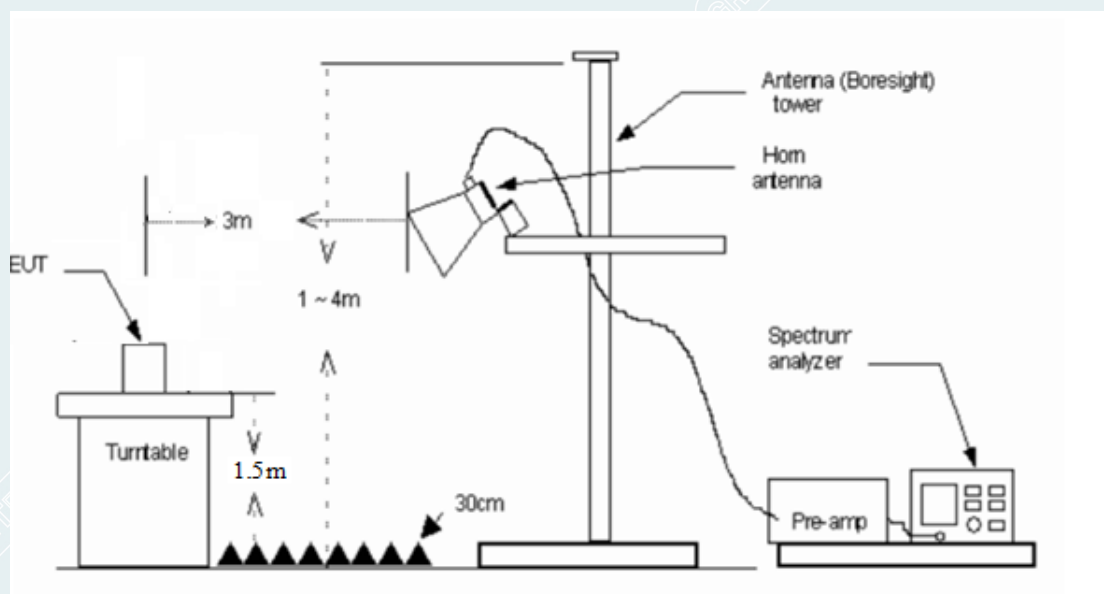


Figure 3. 1GHz-18GHz radiated emissions test configuration

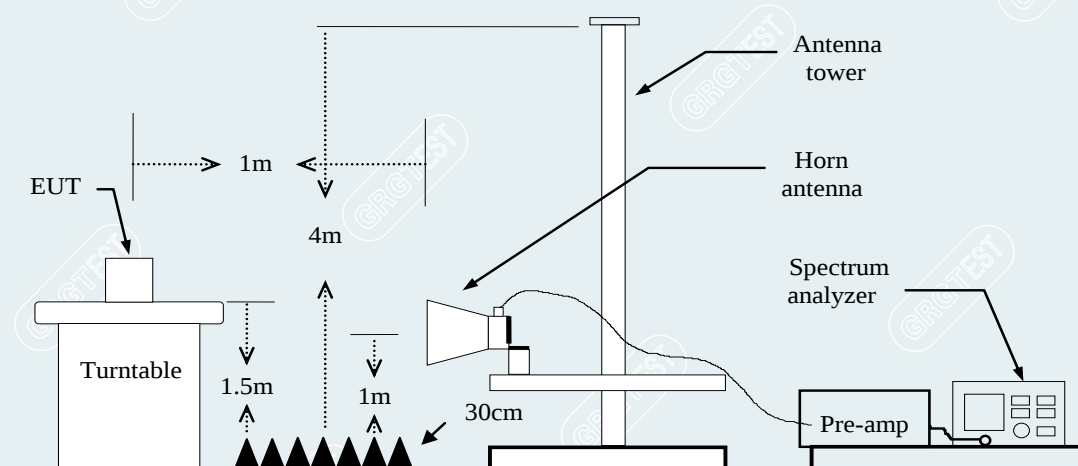


Figure 4. 18GHz-26.5GHz radiated emissions test configuration

5.4 TEST RESULT

Antenna 1:

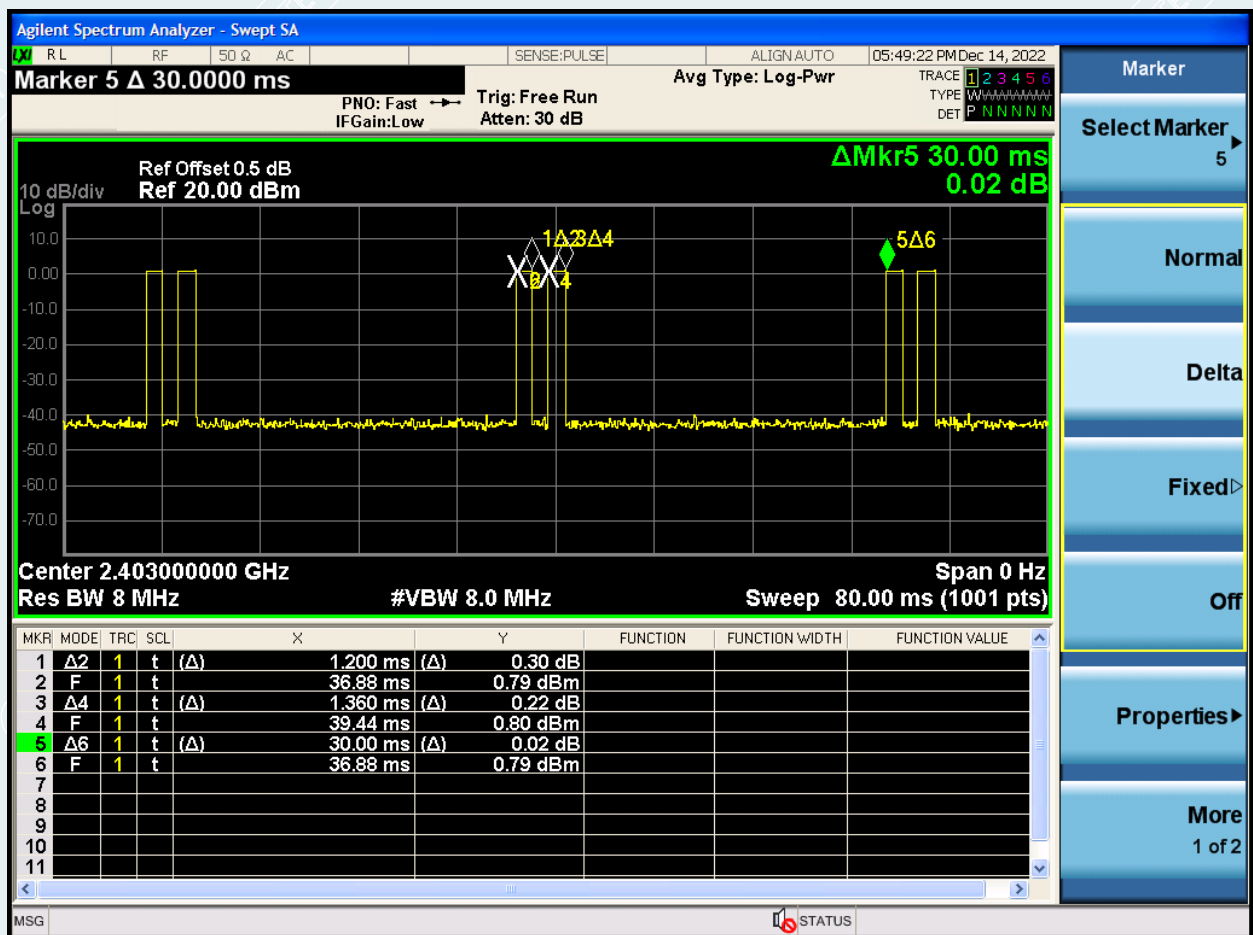
EUT Name	Base Station	Model	E100
Environmental Conditions	21.8°C/52%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Qin tingting
Test Date	2022-12-14	Sample No.	E202211303743-0002
Frequency	2403 MHz	/	/

On Time (ms)	Total time (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
2.56	30	8.53	-21.38

Note 1: Duty Cycle = On time/Total time = 2.56ms/30ms = 8.53%.

Note 2: Duty Cycle Factor = 20*Log(Duty Cycle).

Note 3: Duty Cycle Correction Factor: 20Log (0.0853) = -21.38dB.



Antenna 2:

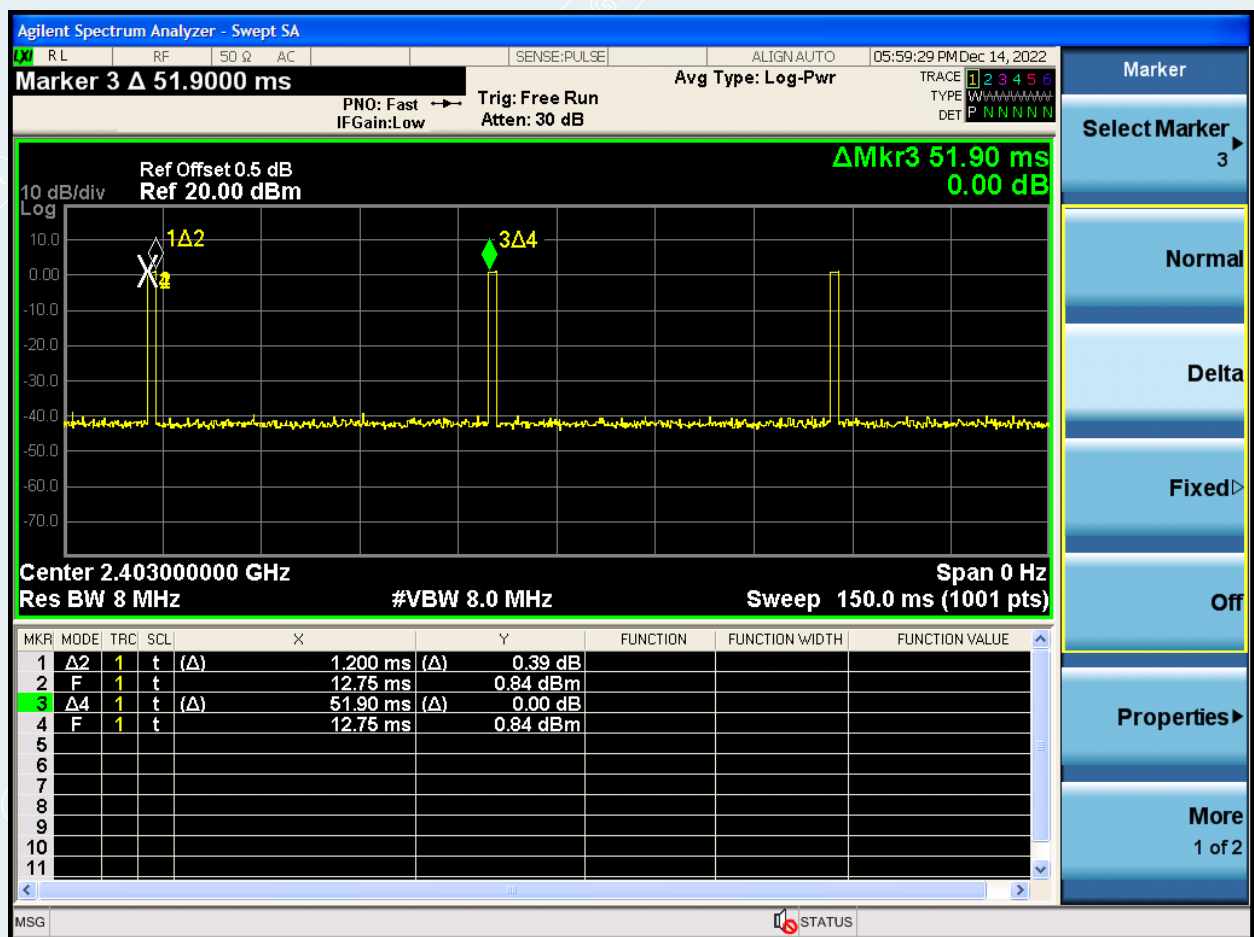
EUT Name	Base Station	Model	E100
Environmental Conditions	21.8°C/52%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Qin tingting
Test Date	2022-12-14	Sample No.	E202211303743-0002
Frequency	2403 MHz	/	/

On Time (ms)	Total time (ms)	Duty Cycle (%)	Duty Cycle Factor (dB)
1.2	51.9	2.31	-32.73

Note 1: Duty Cycle = On time/Total time = 1.2ms/51.9ms = 2.31%.

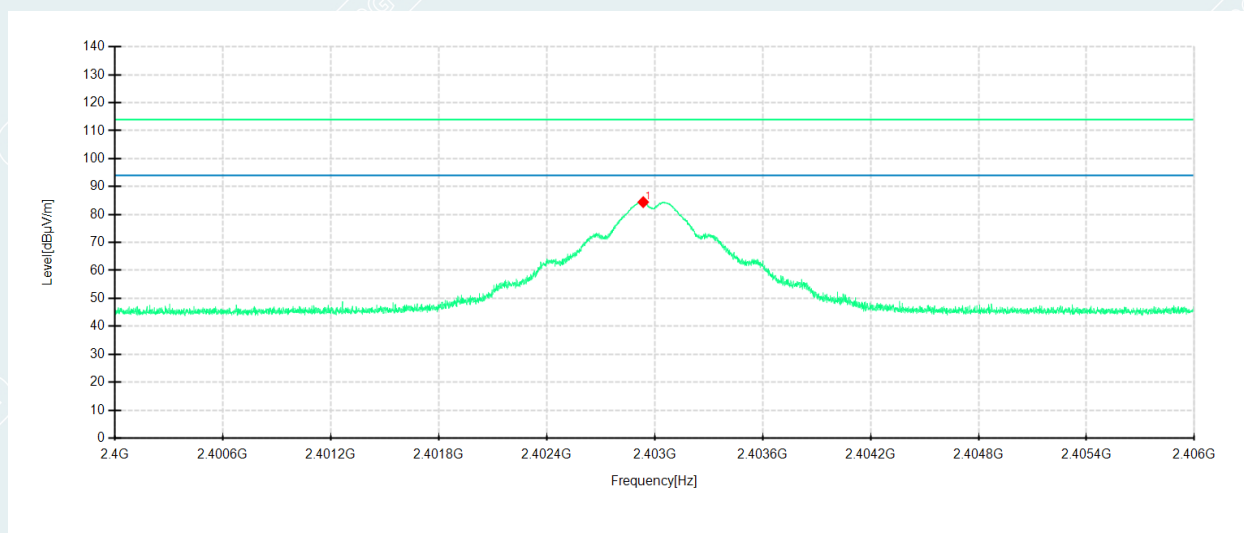
Note 2: Duty Cycle Factor = $20 \times \log(\text{Duty Cycle})$.

Note 3: Duty Cycle Correction Factor: $20 \log(0.0231) = -32.73 \text{ dB}$.



The field strength of fundamental Antenna 1:

EUT Name	Base Station	Model	E100
Environmental Conditions	23.6°C/50%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2403 MHz	/	/



PEAK

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2402.9355	85.18	84.43	-0.75	114.00	29.57	100	54	Horizontal	Peak

AVG

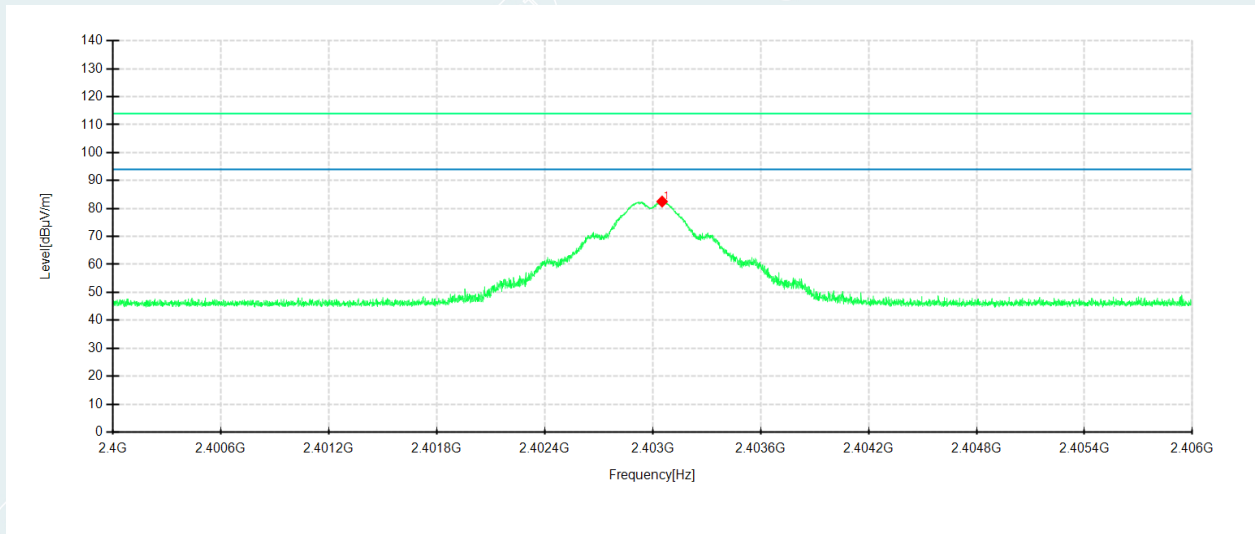
Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2402.9355	63.05	94.00	30.95	AV

Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \times \log(0.0853) = -21.38\text{dB}$

Note 3: AVG Level value=84.43(dBμV/m) – 21.38(dB) = 63.05(dBμV/m).

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**PEAK**

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2403.0515	82.30	82.49	0.19	114.00	31.51	200	253	Vertical	Peak

AVG

Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2403.0515	61.11	94.00	32.89	AV

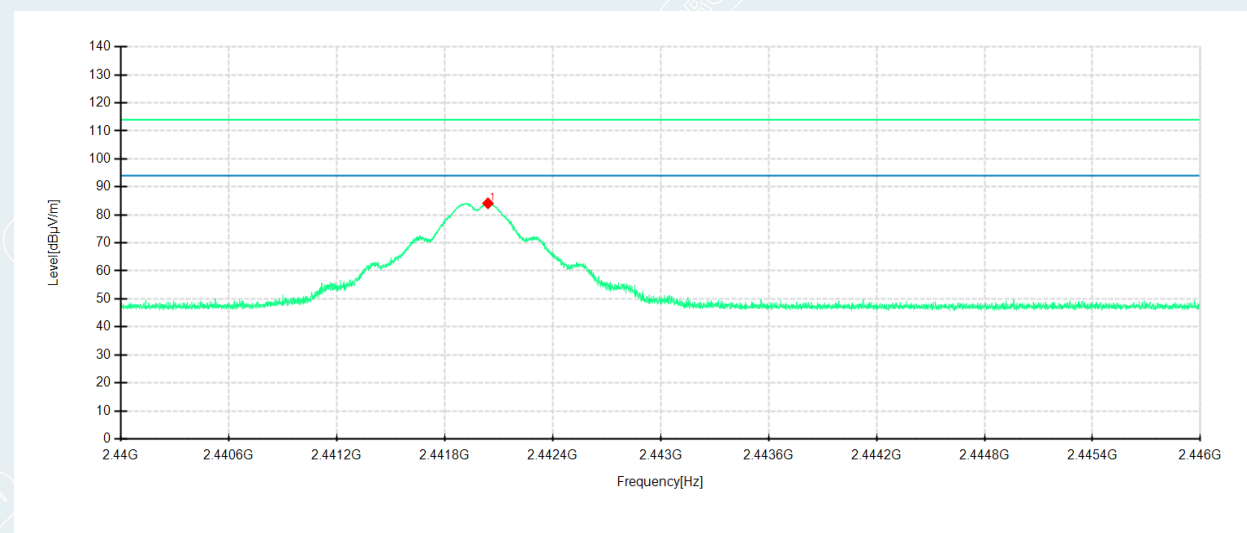
Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \times \log(0.0853) = -21.38\text{dB}$

Note 3: AVG Level value= $82.49(\text{dB}\mu\text{V/m}) - 21.38(\text{dB}) = 61.11(\text{dB}\mu\text{V/m})$.

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EUT Name	Base Station	Model	E100
Environmental Conditions	23.6°C/50%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2442 MHz	/	/



PEAK

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2442.0393	84.58	84.13	-0.45	114.00	29.87	100	52	Horizontal	Peak

AVG

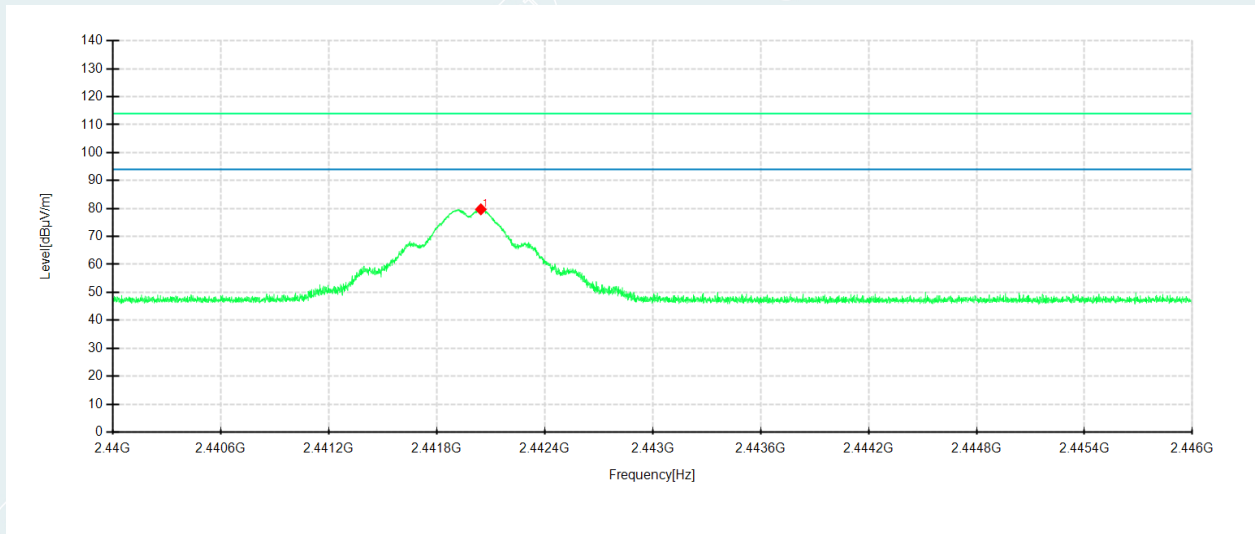
Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2442.0393	62.75	94.00	31.25	AV

Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \times \log(0.0853) = -21.38\text{dB}$

Note 3: AVG Level value= $84.13(\text{dB}\mu\text{V/m}) - 21.38(\text{dB}) = 62.75(\text{dB}\mu\text{V/m})$.

----- The following blanks -----

**PEAK**

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2442.0443	80.08	79.70	-0.38	114.00	34.30	200	251	Vertical	Peak

AVG

Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2442.0443	58.32	94.00	35.68	AV

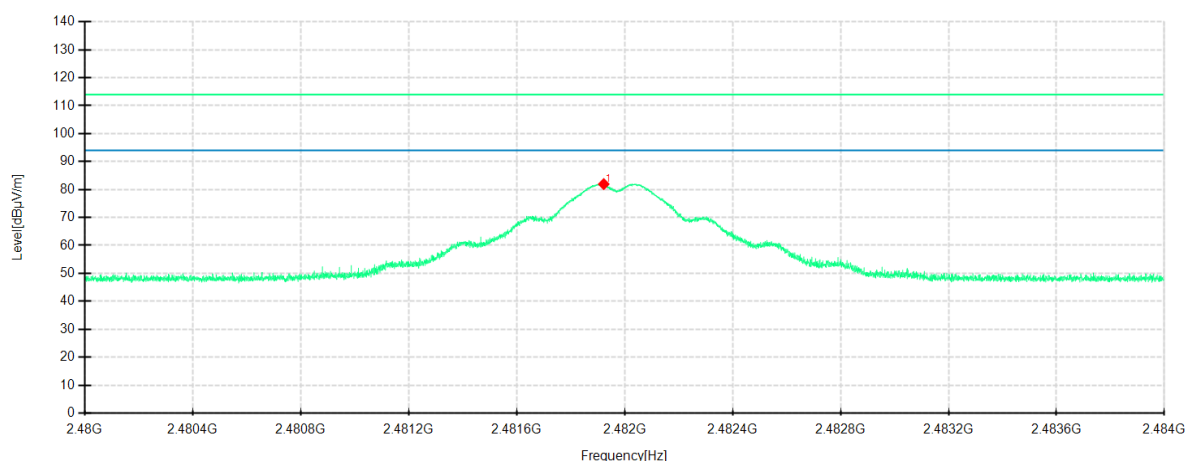
Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \times \log(0.0853) = -21.38\text{dB}$

Note 3: AVG Level value=79.70(dBμV/m) – 21.38(dB) =58.32(dBμV/m).

----- The following blanks -----

EUT Name	Base Station	Model	E100
Environmental Conditions	23.6°C/50%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2482 MHz	/	/



PEAK

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2481.9223	81.70	81.93	0.23	114.00	32.07	100	53	Horizontal	Peak

AVG

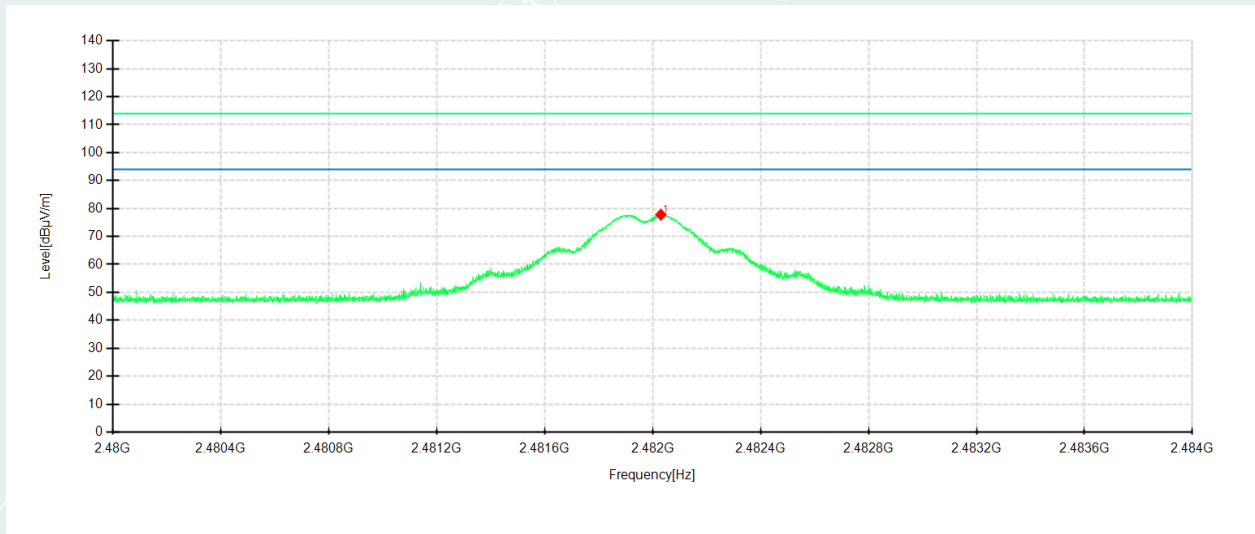
Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2481.9223	60.55	94.00	33.45	AV

Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \times \log(0.0853) = -21.38\text{dB}$

Note 3: AVG Level value=81.93(dBμV/m) – 21.38(dB) =60.55 (dBμV/m).

----- The following blanks -----

**PEAK**

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2482.0303	78.18	77.80	-0.38	114.00	36.20	200	250	Vertical	Peak

AVG

Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2482.0303	56.42	94.00	37.58	AV

Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

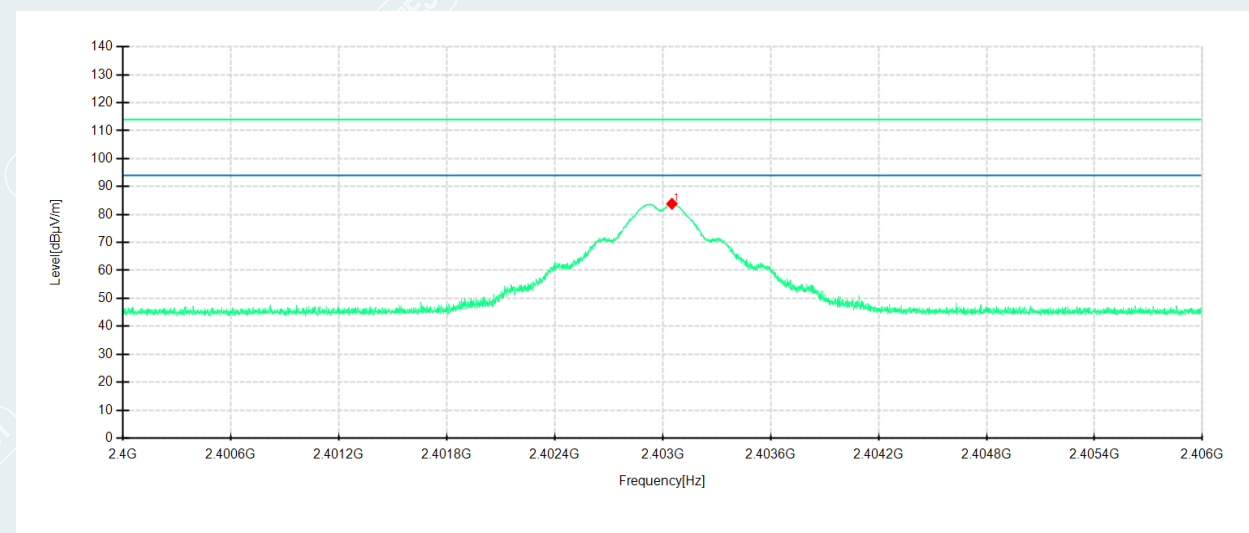
Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \times \log(0.0853) = -21.38\text{dB}$

Note 3: AVG Level value=77.80(dBμV/m) – 21.38(dB) =56.42(dBμV/m).

----- The following blanks -----

Antenna 2:

EUT Name	Base Station	Model	E100
Environmental Conditions	23.6°C/50%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2403 MHz	/	/

**PEAK**

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2403.0505	84.59	83.84	-0.75	114.00	30.16	100	54	Horizontal	Peak

AVG

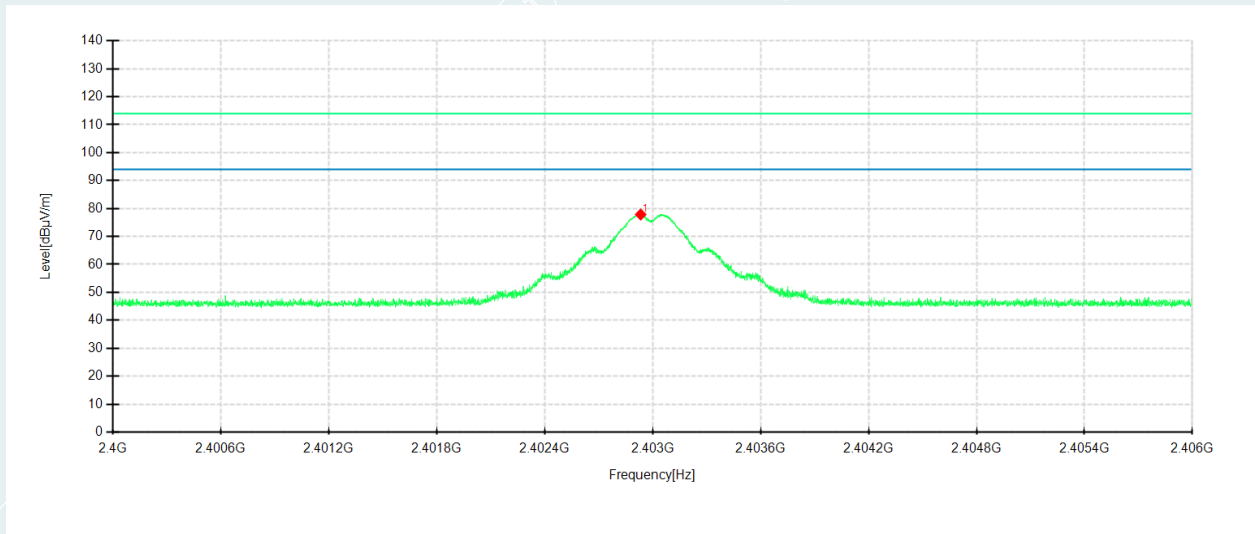
Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2403.0505	51.11	94.00	42.89	AV

Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \log(0.0231) = -32.73 \text{ dB}$

Note 3: AVG Level value= $83.84 \text{ (dBμV/m)} - 32.73 \text{ (dB)} = 51.11 \text{ (dBμV/m)}$.

----- The following blanks -----

**PEAK**

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2402.9325	77.67	77.86	0.19	114.00	36.14	200	251	Vertical	Peak

AVG

Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2402.9325	45.13	94.00	48.87	AV

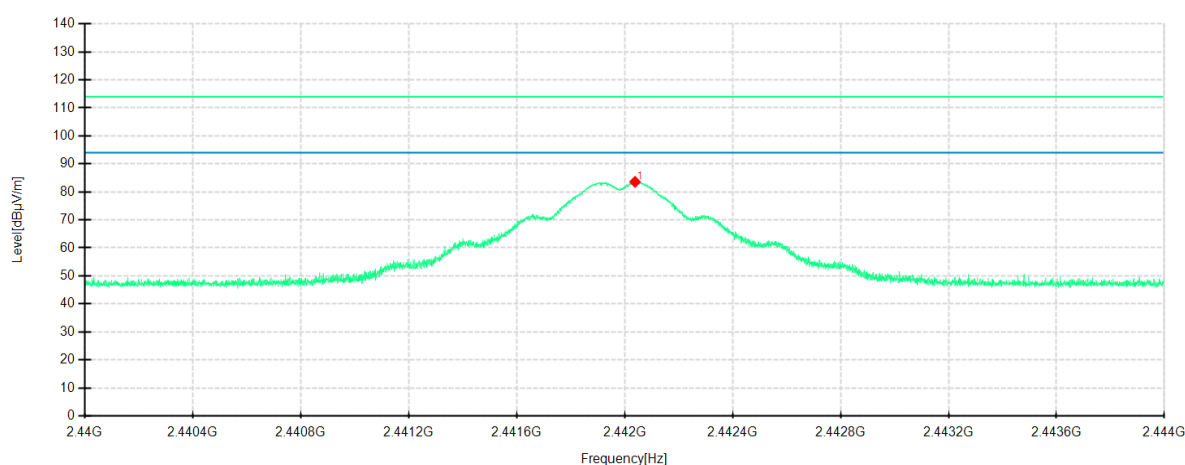
Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \log(0.0231) = -32.73 \text{ dB}$

Note 3: AVG Level value= $77.86 \text{ (dBμV/m)} - 32.73 \text{ (dB)} = 45.13 \text{ (dBμV/m)}$.

----- The following blanks -----

EUT Name	Base Station	Model	E100
Environmental Conditions	23.6°C/50%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2442 MHz	/	/



PEAK

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2442.0383	84.03	83.58	-0.45	114.00	30.42	100	53	Horizontal	Peak

AVG

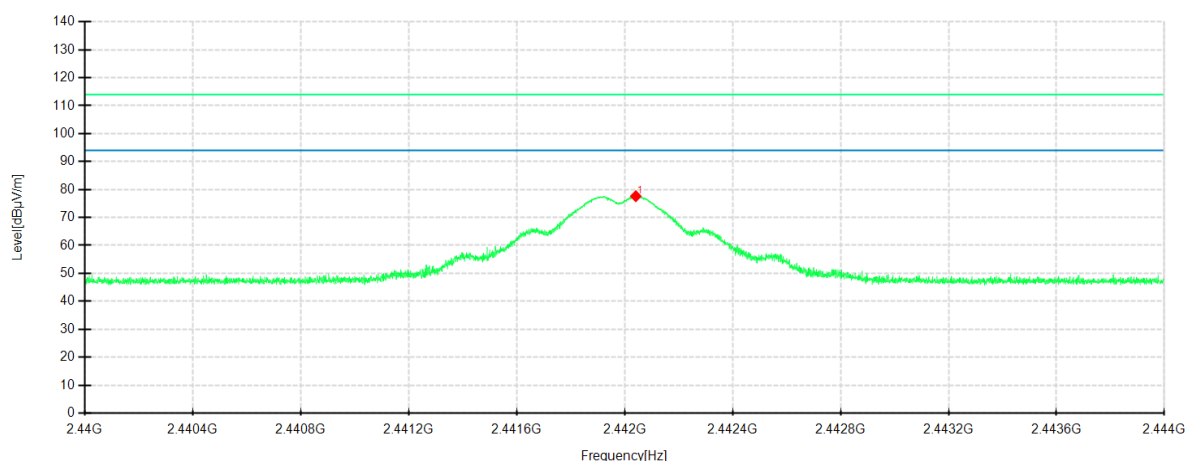
Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2442.0383	50.85	94.00	43.15	AV

Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \log(0.0231) = -32.73 \text{ dB}$

Note 3: AVG Level value= $83.58 \text{ (dBμV/m)} - 32.73 \text{ (dB)} = 50.85 \text{ (dBμV/m)}$.

----- The following blanks -----



PEAK

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2442.041	77.98	77.60	-0.38	114.00	36.40	200	251	Vertical	Peak

AVG

Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2442.041	44.87	94.00	49.13	AV

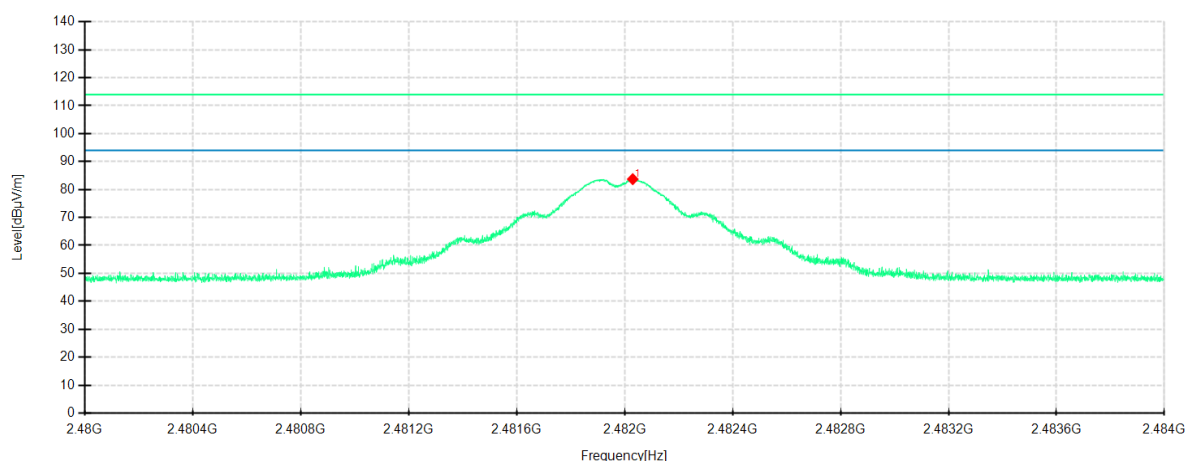
Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \cdot \log(\text{Duty Cycle}) = 20 \log(0.0231) = -32.73 \text{ dB}$

Note 3: AVG Level value= $77.60 \text{ (dBμV/m)} - 32.73 \text{ (dB)} = 44.87 \text{ (dBμV/m)}$.

----- The following blanks -----

EUT Name	Base Station	Model	E100
Environmental Conditions	23.6°C/50%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2482 MHz	/	/



PEAK

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2482.0297	83.48	83.71	0.23	114.00	30.29	100	53	Horizontal	Peak

AVG

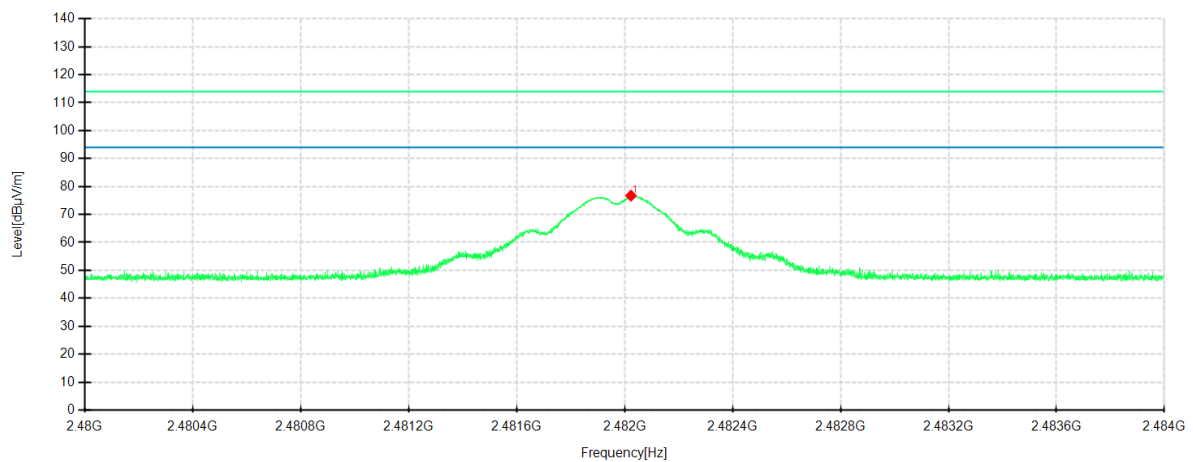
Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2482.0297	50.98	94.00	43.02	AV

Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

Note 2: Duty Cycle Factor= $20 \times \log(\text{Duty Cycle}) = 20 \log(0.0231) = -32.73 \text{ dB}$

Note 3: AVG Level value= $83.71 \text{ (dBμV/m)} - 32.73 \text{ (dB)} = 50.98 \text{ (dBμV/m)}$.

----- The following blanks -----



PEAK

Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
2482.023	77.11	76.73	-0.38	114.00	37.27	200	250	Vertical	Peak

AVG

Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Remark
2482.023	44.00	94.00	50.00	AV

Note 1: AVG Level value=Peak Level value + Duty Cycle Factor

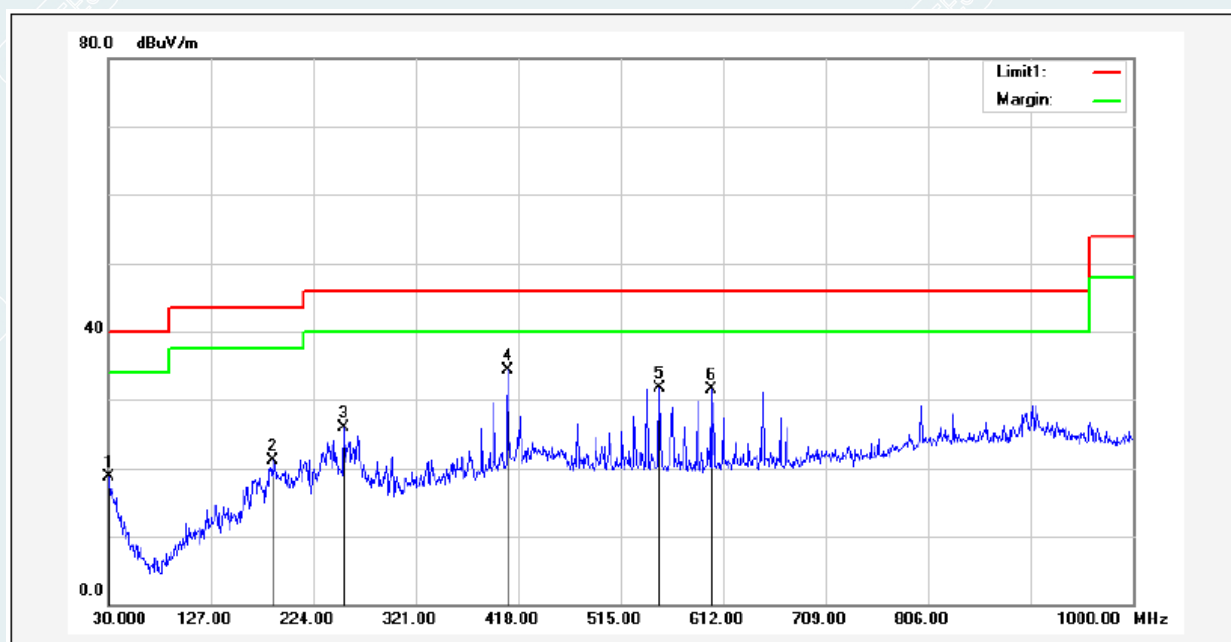
Note 2: Duty Cycle Factor= $20 \cdot \log(\text{Duty Cycle}) = 20 \log(0.0231) = -32.73 \text{ dB}$

Note 3: AVG Level value= $76.73 \text{ (dBμV/m)} - 32.73 \text{ (dB)} = 44.00 \text{ (dBμV/m)}$.

----- The following blanks -----

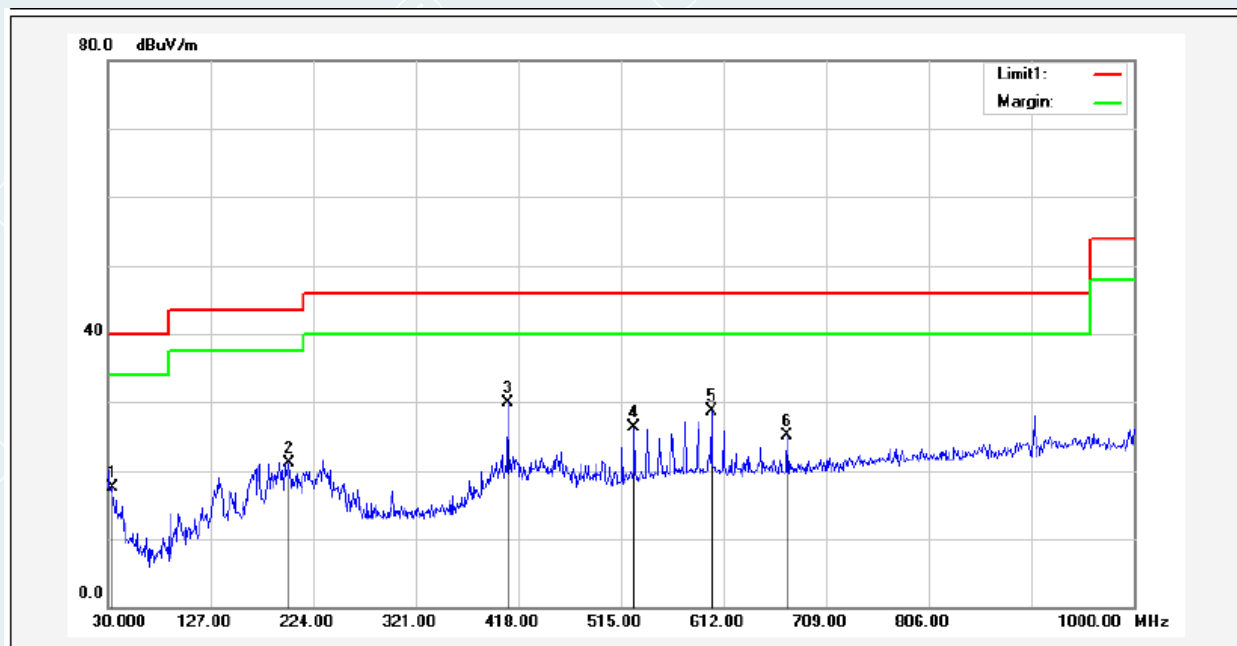
Radiated Spurious Emission**Test Frequency 30MHz – 1GHz****Antenna 1:**

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2403 MHz	Polarity:	Horizontal



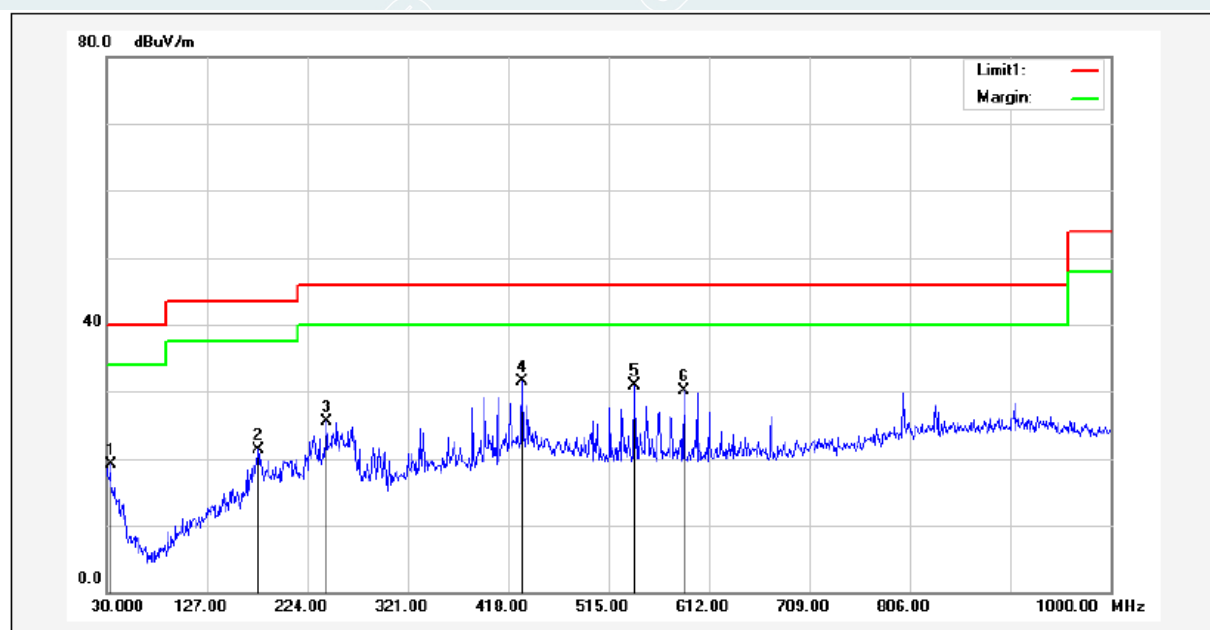
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	30.0000	35.41	-16.65	18.76	40.00	-21.24	107	100	QP
2	185.2000	48.40	-27.32	21.08	43.50	-22.42	90	200	QP
3	253.1000	50.56	-24.60	25.96	46.00	-20.04	234	100	QP
4*	408.3000	54.16	-19.87	34.29	46.00	-11.71	0	301	QP
5	551.8600	48.40	-16.61	31.79	46.00	-14.21	36	200	QP
6	600.3600	47.74	-16.25	31.49	46.00	-14.51	196	400	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2403 MHz	Polarity:	Vertical



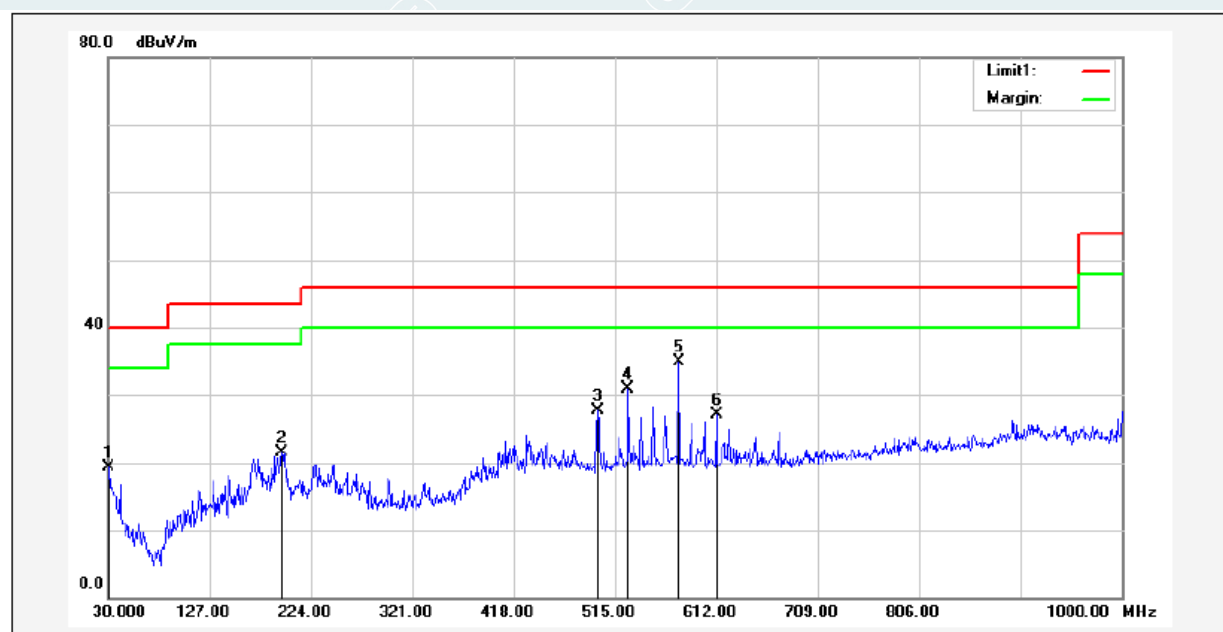
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	33.8800	36.12	-18.52	17.60	40.00	-22.40	91	300	QP
2	200.7200	47.63	-26.61	21.02	43.50	-22.48	8	100	QP
3*	408.3000	49.85	-19.87	29.98	46.00	-16.02	86	200	QP
4	527.6100	43.73	-17.38	26.35	46.00	-19.65	360	200	QP
5	600.3600	44.98	-16.25	28.73	46.00	-17.27	138	100	QP
6	672.1400	40.85	-15.82	25.03	46.00	-20.97	102	100	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2442 MHz	Polarity:	Horizontal



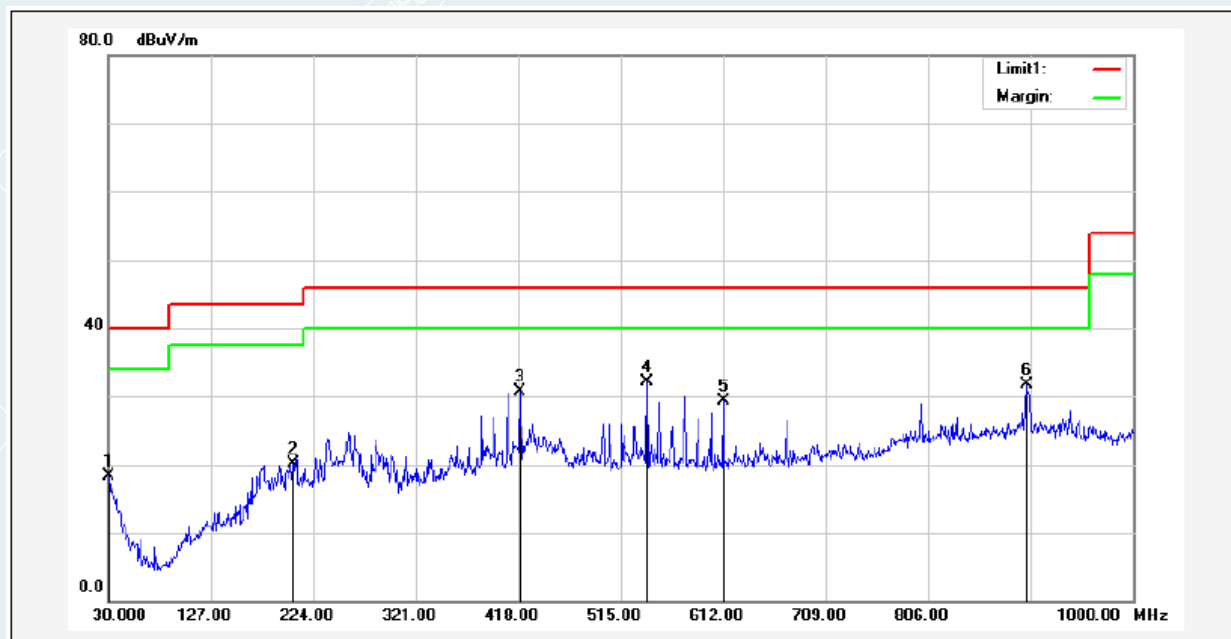
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	33.8800	37.72	-18.52	19.20	40.00	-20.80	310	300	QP
2	176.4700	48.92	-27.55	21.37	43.50	-22.13	360	171	QP
3	242.4300	50.55	-24.97	25.58	46.00	-20.42	233	100	QP
4*	431.5800	51.01	-19.53	31.48	46.00	-14.52	176	300	QP
5	540.2200	47.82	-16.95	30.87	46.00	-15.13	32	200	QP
6	587.7500	46.45	-16.34	30.11	46.00	-15.89	144	200	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2442 MHz	Polarity:	Vertical



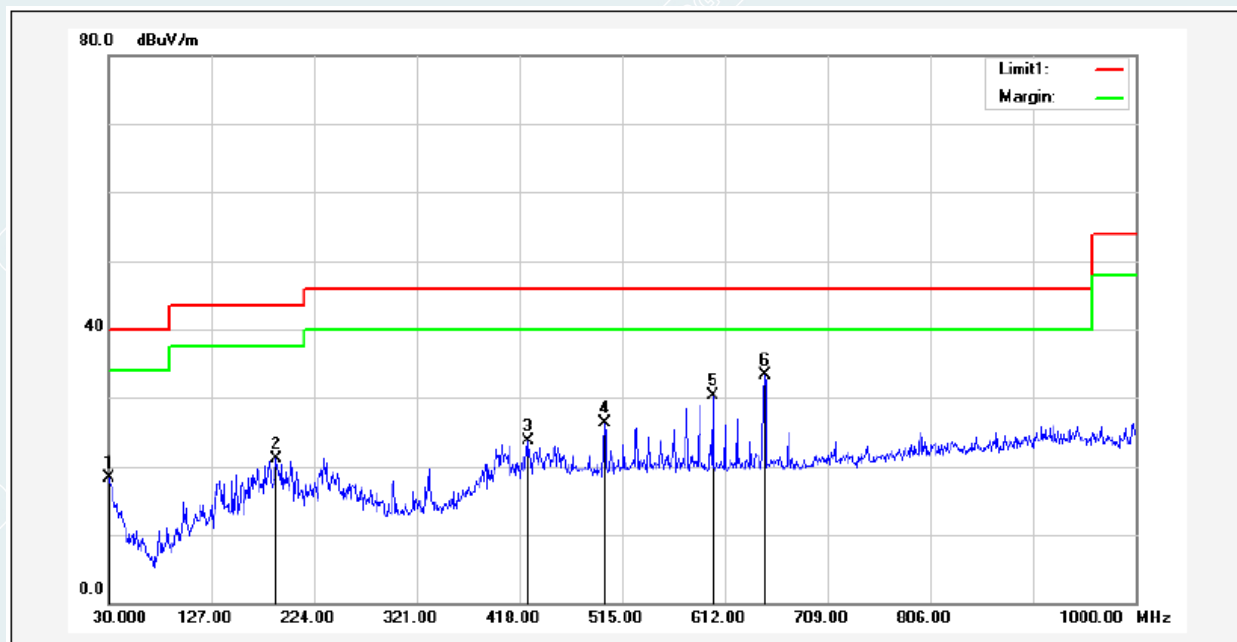
No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	30.9700	36.33	-17.11	19.22	40.00	-20.78	133	200	QP
2	195.8700	48.30	-26.85	21.45	43.50	-22.05	54	100	QP
3	498.5100	46.04	-18.34	27.70	46.00	-18.30	151	100	QP
4	527.6100	48.24	-17.38	30.86	46.00	-15.14	181	100	QP
5*	576.1100	51.30	-16.43	34.87	46.00	-11.13	175	100	QP
6	612.0000	43.31	-16.19	27.12	46.00	-18.88	136	100	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2482 MHz	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	30.9700	35.50	-17.11	18.39	40.00	-21.61	360	103	QP
2	204.6000	46.48	-26.46	20.02	43.50	-23.48	55	200	QP
3	419.9400	50.47	-19.69	30.78	46.00	-15.22	360	102	QP
4*	540.2200	48.98	-16.95	32.03	46.00	-13.97	31	200	QP
5	612.0000	45.47	-16.19	29.28	46.00	-16.72	295	200	QP
6	899.1200	44.90	-13.11	31.79	46.00	-14.21	285	100	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2482 MHz	Polarity:	Vertical



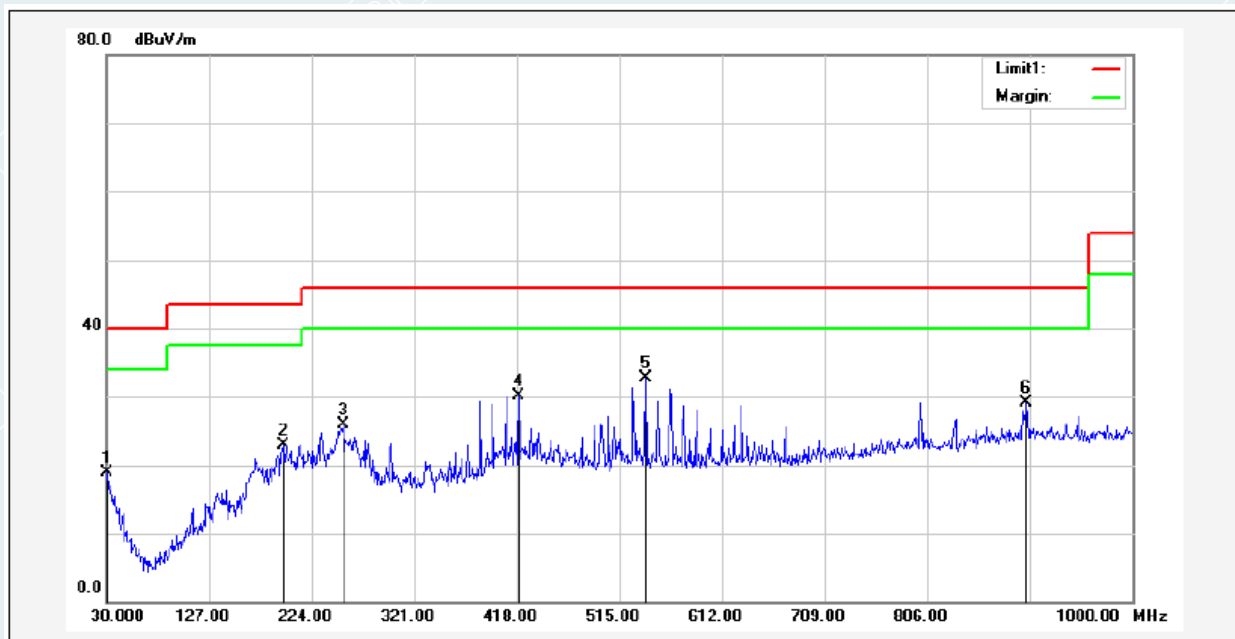
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	30.0000	34.86	-16.65	18.21	40.00	-21.79	235	100	QP
2	188.1100	48.35	-27.21	21.14	43.50	-22.36	190	100	QP
3	426.7300	43.30	-19.60	23.70	46.00	-22.30	29	100	QP
4	498.5100	44.57	-18.34	26.23	46.00	-19.77	168	100	QP
5	600.3600	46.57	-16.25	30.32	46.00	-15.68	105	100	QP
6*	649.8300	49.31	-15.98	33.33	46.00	-12.67	360	198	QP

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 30MHz 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. After the X/Y/Z axis test, it is found that the X axis result is the worst, so only the X axis test results were recorded in the report.

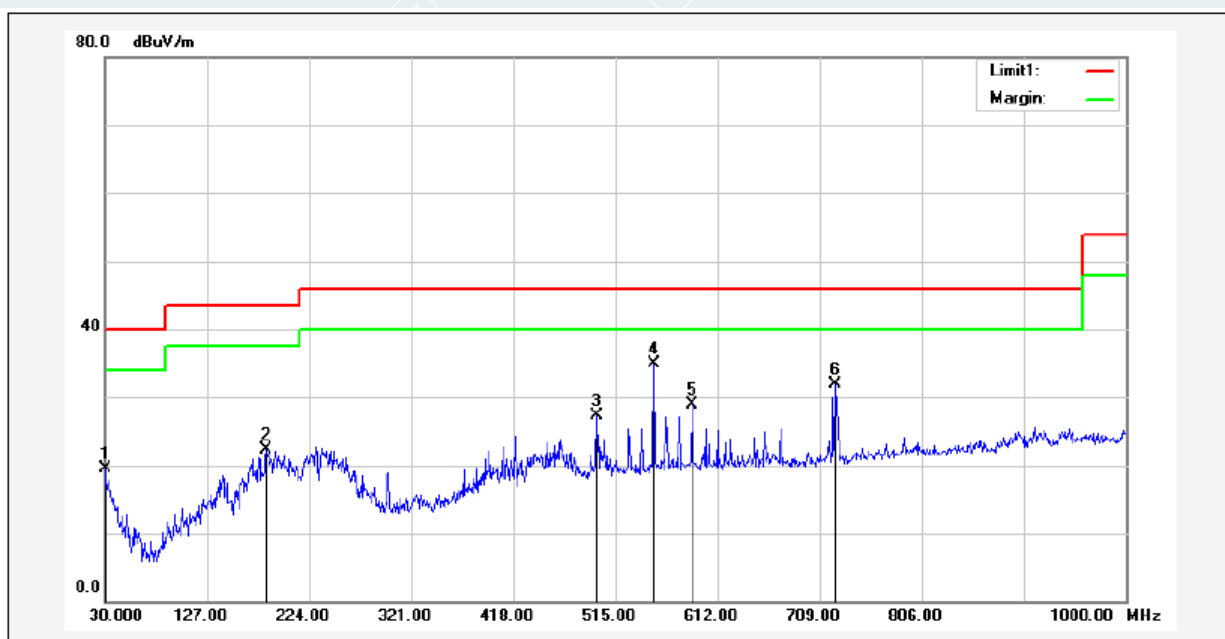
Antenna 2:

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2403 MHz	Polarity:	Horizontal



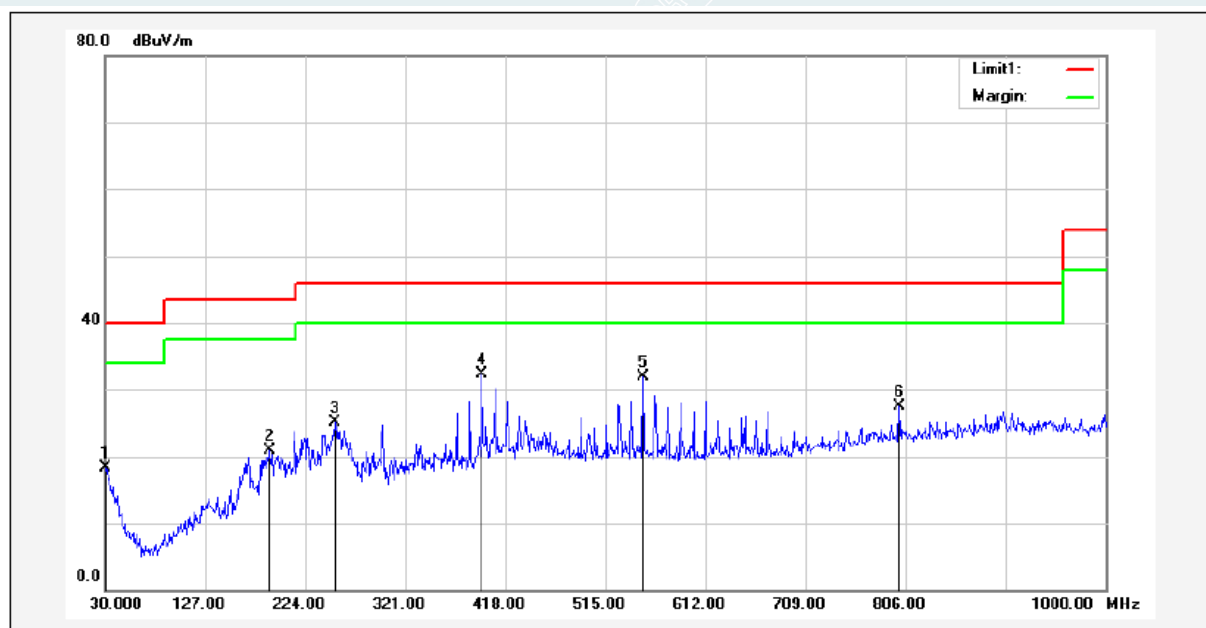
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	30.0000	35.63	-16.65	18.98	40.00	-21.02	315	100	QP
2	196.8400	49.76	-26.80	22.96	43.50	-20.54	0	162	QP
3	254.0700	50.39	-24.58	25.81	46.00	-20.19	262	100	QP
4	419.9400	49.88	-19.69	30.19	46.00	-15.81	2	100	QP
5*	540.2200	49.60	-16.95	32.65	46.00	-13.35	150	200	QP
6	900.0900	42.21	-13.10	29.11	46.00	-16.89	284	100	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2403 MHz	Polarity:	Vertical



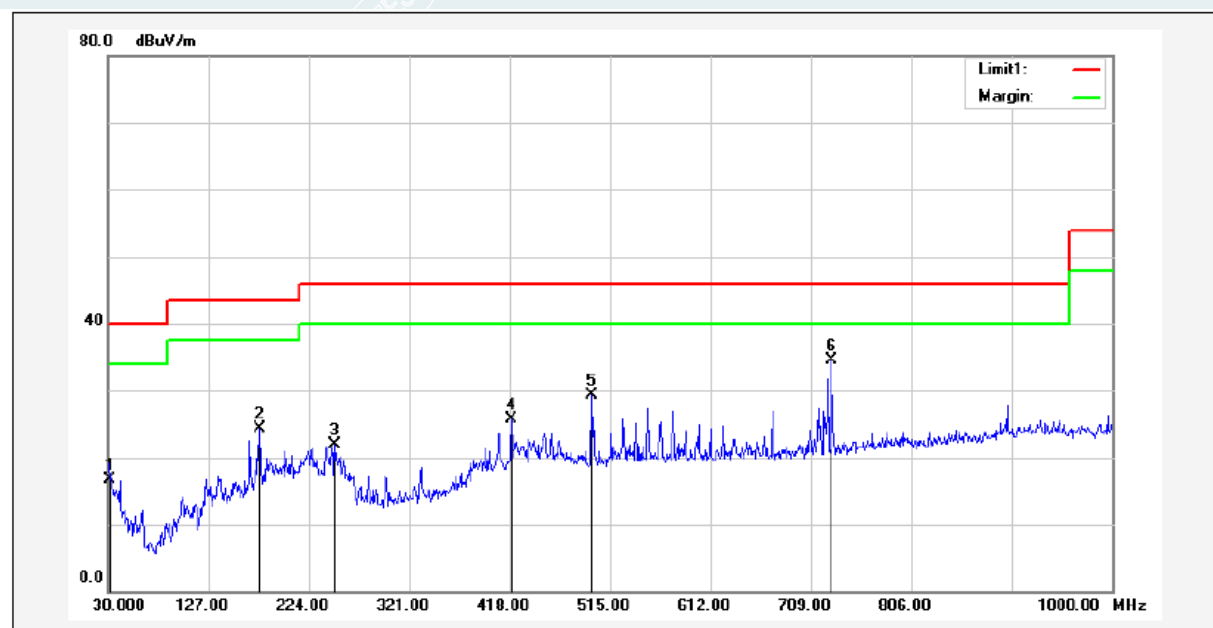
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	30.0000	36.11	-16.65	19.46	40.00	-20.54	154	100	QP
2	183.2600	49.61	-27.40	22.21	43.50	-21.29	199	100	QP
3	497.5400	45.62	-18.35	27.27	46.00	-18.73	65	200	QP
4*	551.8600	51.57	-16.61	34.96	46.00	-11.04	277	100	QP
5	587.7500	45.28	-16.34	28.94	46.00	-17.06	85	100	QP
6	723.5500	47.07	-15.12	31.95	46.00	-14.05	88	400	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2442 MHz	Polarity:	Horizontal



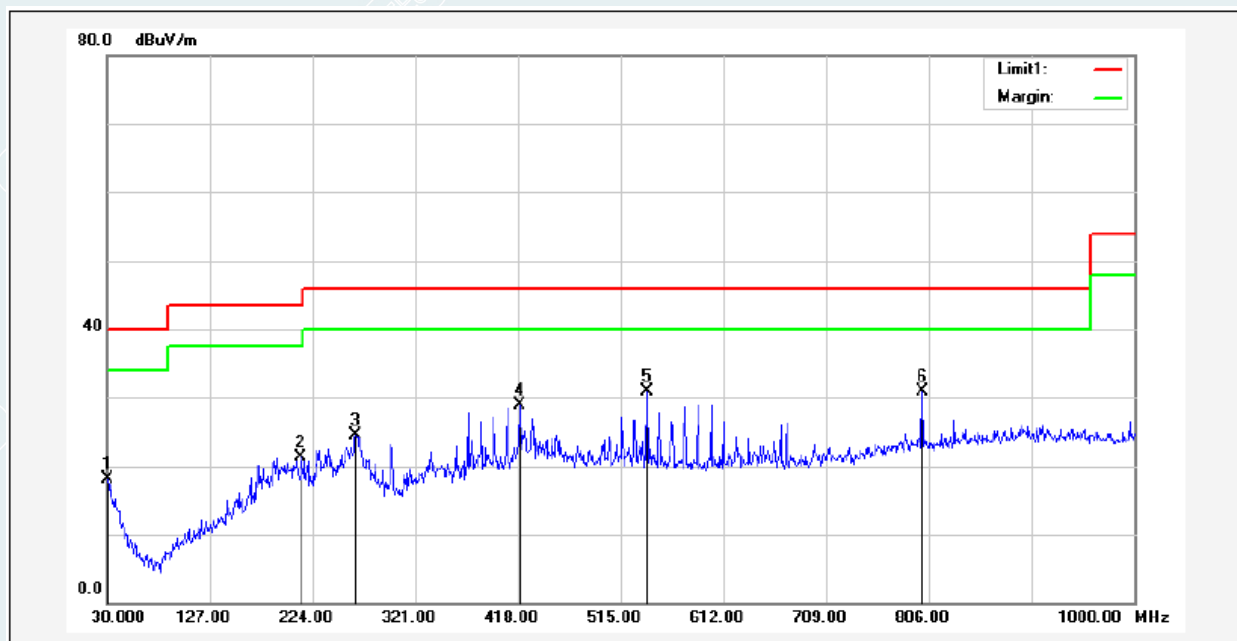
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	30.0000	35.01	-16.65	18.36	40.00	-21.64	222	100	QP
2	190.0500	48.02	-27.13	20.89	43.50	-22.61	49	100	QP
3	253.1000	49.76	-24.60	25.16	46.00	-20.84	224	100	QP
4*	395.6900	52.56	-20.21	32.35	46.00	-13.65	124	100	QP
5	551.8600	48.56	-16.61	31.95	46.00	-14.05	33	200	QP
6	800.1800	41.47	-13.92	27.55	46.00	-18.45	118	100	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2442 MHz	Polarity:	Vertical



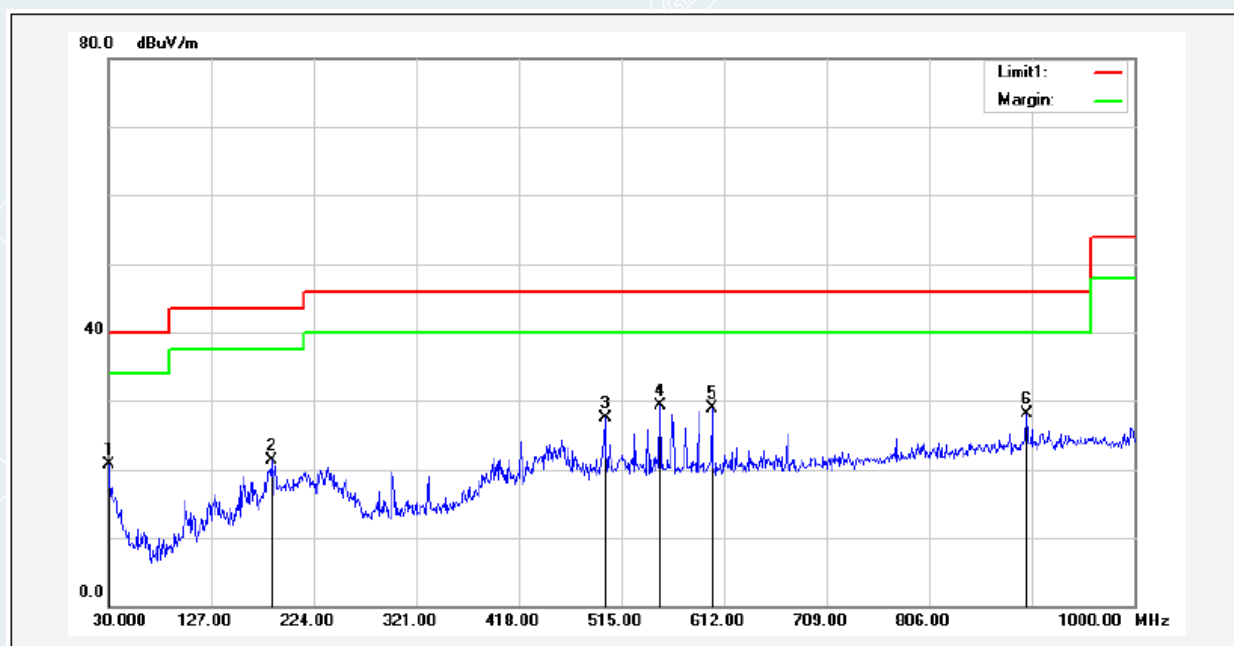
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	31.9400	34.34	-17.59	16.75	40.00	-23.25	360	250	QP
2	176.4700	51.94	-27.55	24.39	43.50	-19.11	0	157	QP
3	249.2200	46.54	-24.70	21.84	46.00	-24.16	0	169	QP
4	419.9400	45.40	-19.69	25.71	46.00	-20.29	66	200	QP
5	497.5400	47.69	-18.35	29.34	46.00	-16.66	171	100	QP
6*	729.3700	49.44	-15.00	34.44	46.00	-11.56	19	100	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2482 MHz	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	30.9700	35.26	-17.11	18.15	40.00	-21.85	356	100	QP
2	213.3300	47.39	-26.11	21.28	43.50	-22.22	61	100	QP
3	264.7400	48.80	-24.37	24.43	46.00	-21.57	288	100	QP
4	419.9400	48.61	-19.69	28.92	46.00	-17.08	0	196	QP
5	540.2200	47.85	-16.95	30.90	46.00	-15.10	157	200	QP
6*	800.1800	44.87	-13.92	30.95	46.00	-15.05	0	100	QP

EUT Name	Base Station	Model	E100
Environmental Conditions	21.3°C/49%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Huang Xinlong
Test Date	2022-12-28	Sample No.	E202211303743-0001
Frequency	2482 MHz	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	30.0000	37.30	-16.65	20.65	40.00	-19.35	0	114	QP
2	184.2300	48.68	-27.36	21.32	43.50	-22.18	184	100	QP
3	499.4800	45.73	-18.32	27.41	46.00	-18.59	64	100	QP
4*	551.8600	45.87	-16.61	29.26	46.00	-16.74	100	100	QP
5	600.3600	45.11	-16.25	28.86	46.00	-17.14	100	100	QP
6	898.1500	41.26	-13.13	28.13	46.00	-17.87	234	100	QP

Remark:

1. No emission found between lowest internal used/generated frequency to 30MHz.
2. Radiated emissions measured in frequency range from 30MHz 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. After the X/Y/Z axis test, it is found that the X axis result is the worst, so only the X axis test results were recorded in the report.

Above 1 GHz (1-18G)**Antenna 1:**

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2403 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1123.0154	65.26	40.00	-25.26	74.00	34.00	200	65	Horizontal
2	1496.312	62.00	39.29	-22.71	74.00	34.71	100	272	Horizontal
3	3196.8996	59.75	44.04	-15.71	74.00	29.96	100	207	Horizontal
4	4843.3554	56.45	43.90	-12.55	74.00	30.10	200	345	Horizontal
5	5925.3657	53.64	44.62	-9.02	74.00	29.38	100	275	Horizontal
6	17879.985	49.38	59.05	9.67	74.00	14.95	100	100	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	17879.985	37.67	54.00	16.33	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	1120.015	69.25	46.33	-22.92	74.00	27.67	100	123	Vertical
2	1245.7807	68.41	43.40	-25.01	74.00	30.60	100	299	Vertical
3	2374.1718	65.85	47.07	-18.78	74.00	26.93	200	220	Vertical
4	3198.7748	61.97	45.58	-16.39	74.00	28.42	100	305	Vertical
5	6394.1743	57.23	50.11	-7.12	74.00	23.89	100	0	Vertical
6	17887.4859	49.90	61.48	11.58	74.00	12.52	200	22	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	6394.1743	28.73	54.00	25.27	Vertical
2	17887.4859	40.10	54.00	13.90	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2442 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1244.7806	63.13	41.02	-22.11	74.00	32.98	100	73	Horizontal
2	1684.3355	62.66	39.76	-22.90	74.00	34.24	100	221	Horizontal
3	2358.1698	65.06	44.82	-20.24	74.00	29.18	100	269	Horizontal
4	4260.1575	58.07	43.61	-14.46	74.00	30.39	100	227	Horizontal
5	4882.7353	58.00	46.48	-11.52	74.00	27.52	100	12	Horizontal
6	17988.7486	48.93	59.24	10.31	74.00	14.76	100	305	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	17988.7486	37.86	54.00	16.14	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	1119.2649	66.52	43.62	-22.90	74.00	30.38	200	103	Vertical
2	1669.3337	63.93	41.66	-22.27	74.00	32.34	100	261	Vertical
3	2660.9576	68.79	51.07	-17.72	74.00	22.93	100	309	Vertical
4	4329.5412	56.41	42.72	-13.69	74.00	31.28	100	188	Vertical
5	6377.2972	58.47	51.36	-7.11	74.00	22.64	100	160	Vertical
6	17883.7355	49.30	60.91	11.61	74.00	13.09	100	168	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2660.9576	29.69	54.00	24.31	Vertical
2	6377.2972	29.98	54.00	24.02	Vertical
3	17883.7355	39.53	54.00	14.47	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2482 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1120.7651	65.91	40.62	-25.29	74.00	33.38	200	113	Horizontal
2	1900.6126	65.97	44.96	-21.01	74.00	29.04	100	201	Horizontal
3	2496.6871	67.60	48.89	-18.71	74.00	25.11	200	181	Horizontal
4	3187.5234	60.16	44.37	-15.79	74.00	29.63	100	59	Horizontal
5	4963.3704	59.30	47.77	-11.53	74.00	26.23	200	109	Horizontal
6	17808.7261	50.01	60.10	10.09	74.00	13.90	100	118	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2496.6871	27.51	54.00	26.49	Horizontal
2	17808.7261	38.72	54.00	15.28	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	1121.2652	67.66	44.69	-22.97	74.00	29.31	100	112	Vertical
2	2659.2074	65.69	47.95	-17.74	74.00	26.05	200	297	Vertical
3	3189.3987	62.76	46.26	-16.50	74.00	27.74	100	21	Vertical
4	4963.3704	58.39	47.19	-11.20	74.00	26.81	100	237	Vertical
5	6377.2972	60.96	53.85	-7.11	74.00	20.15	100	149	Vertical
6	18000	48.27	61.66	13.39	74.00	12.34	100	286	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	6377.2972	32.47	54.00	21.53	Vertical
2	18000	40.28	54.00	13.72	Vertical

Note:

1. Radiated emissions measured in frequency range from 1GHz – 18GHz were made with an instrument using Peak/AV detector mode.
2. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it's unnecessary to perform an average measurement.
3. The IF bandwidth of Receiver between above was 1MHz.

Antenna 2:

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2403 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1108.7636	68.68	43.24	-25.44	74.00	30.76	200	226	Horizontal
2	1667.3334	69.81	46.73	-23.08	74.00	27.27	100	83	Horizontal
3	3191.2739	59.09	43.33	-15.76	74.00	30.67	100	141	Horizontal
4	4805.8507	59.16	46.56	-12.60	74.00	27.44	100	337	Horizontal
5	5929.1161	54.18	45.21	-8.97	74.00	28.79	200	16	Horizontal
6	17812.4766	45.54	55.62	10.08	74.00	18.38	200	195	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	17812.4766	22.89	54.00	31.11	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	1116.5146	70.15	47.34	-22.81	74.00	26.66	200	119	Vertical
2	1680.335	66.40	44.46	-21.94	74.00	29.54	100	73	Vertical
3	3196.8996	62.08	45.66	-16.42	74.00	28.34	100	210	Vertical
4	4807.726	60.29	47.41	-12.88	74.00	26.59	100	210	Vertical
5	6366.0458	57.56	50.45	-7.11	74.00	23.55	100	328	Vertical
6	17939.9925	46.88	58.57	11.69	74.00	15.43	100	15	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	6366.0458	17.72	54.00	36.28	Vertical
2	17939.9925	25.84	54.00	28.16	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2442 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1110.7638	65.47	40.05	-25.42	74.00	33.95	200	319	Horizontal
2	1671.5839	64.96	41.93	-23.03	74.00	32.07	100	64	Horizontal
3	2325.6657	64.26	44.71	-19.55	74.00	29.29	200	319	Horizontal
4	3618.8274	56.81	40.68	-16.13	74.00	33.32	100	71	Horizontal
5	4807.726	59.47	46.88	-12.59	74.00	27.12	100	150	Horizontal
6	17756.2195	46.04	55.18	9.14	74.00	18.82	200	4	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	17756.2195	22.45	54.00	31.55	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	1120.265	68.37	45.44	-22.93	74.00	28.56	100	104	Vertical
2	1670.3338	67.40	45.16	-22.24	74.00	28.84	100	75	Vertical
3	2375.922	64.70	45.90	-18.80	74.00	28.10	100	202	Vertical
4	3116.2645	58.60	42.00	-16.60	74.00	32.00	100	0	Vertical
5	6377.2972	55.72	48.61	-7.11	74.00	25.39	100	169	Vertical
6	17981.2477	45.10	57.87	12.77	74.00	16.13	200	197	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	6377.2972	15.88	54.00	38.12	Vertical
2	17981.2477	25.14	54.00	28.86	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2482 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1122.5153	68.11	42.84	-25.27	74.00	31.16	100	218	Horizontal
2	1597.5747	63.91	41.18	-22.73	74.00	32.82	100	92	Horizontal
3	2499.9375	66.48	47.83	-18.65	74.00	26.17	100	179	Horizontal
4	3195.0244	62.67	46.95	-15.72	74.00	27.05	100	250	Horizontal
5	5522.1903	55.40	44.75	-10.65	74.00	29.25	200	336	Horizontal
6	17868.7336	45.71	55.49	9.78	74.00	18.51	200	93	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	17868.7336	22.76	54.00	31.24	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	1109.7637	68.87	46.29	-22.58	74.00	27.71	200	286	Vertical
2	2665.4582	62.38	44.71	-17.67	74.00	29.29	200	71	Vertical
3	3742.5928	61.56	45.62	-15.94	74.00	28.38	100	201	Vertical
4	5548.4436	55.96	45.17	-10.79	74.00	28.83	100	270	Vertical
5	6379.1724	59.13	52.02	-7.11	74.00	21.98	100	308	Vertical
6	17988.7486	45.19	58.21	13.02	74.00	15.79	100	318	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	6379.1724	19.29	54.00	34.71	Vertical
2	17988.7486	25.48	54.00	28.52	Vertical

Note:

1. Radiated emissions measured in frequency range from 1GHz – 18GHz were made with an instrument using Peak/AV detector mode.
2. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it's unnecessary to perform an average measurement.
3. The IF bandwidth of Receiver between above was 1MHz.

18-26.5GHz:**Antenna 1:**

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2403 MHz	/	/

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18382.5	52.34	40.04	-12.30	83.54	43.50	150	268	Horizontal
2	19717.85	52.54	41.30	-11.24	83.54	42.24	150	61	Horizontal
3	21419.125	50.71	40.80	-9.91	83.54	42.74	150	78	Horizontal
4	22565.35	49.19	40.12	-9.07	83.54	43.42	150	333	Horizontal
5	23190.525	49.41	40.71	-8.70	83.54	42.83	150	173	Horizontal
6	25387.775	47.40	40.13	-7.27	83.54	43.41	150	268	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	18388.45	53.67	41.43	-12.24	83.54	42.11	150	281	Vertical
2	19999.625	53.18	42.22	-10.96	83.54	41.32	150	158	Vertical
3	22748.95	49.79	41.02	-8.77	83.54	42.52	150	298	Vertical
4	24685.25	48.52	41.01	-7.51	83.54	42.53	150	14	Vertical
5	25197.375	48.39	41.40	-6.99	83.54	42.14	150	46	Vertical
6	26364.85	48.13	41.05	-7.08	83.54	42.49	150	345	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2442 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18334.9	53.84	41.52	-12.32	83.54	42.02	150	302	Horizontal
2	20010.675	51.80	40.75	-11.05	83.54	42.79	150	146	Horizontal
3	20632.875	53.66	43.28	-10.38	83.54	40.26	150	302	Horizontal
4	22145.025	49.62	40.00	-9.62	83.54	43.54	150	97	Horizontal
5	24142.525	48.55	40.25	-8.30	83.54	43.29	150	113	Horizontal
6	25295.55	48.09	40.91	-7.18	83.54	42.63	150	270	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	18470.9	52.79	40.64	-12.15	83.54	42.90	150	328	Vertical
2	19999.2	52.45	41.49	-10.96	83.54	42.05	150	218	Vertical
3	20614.175	51.72	41.47	-10.25	83.54	42.07	150	250	Vertical
4	21713.225	50.13	40.47	-9.66	83.54	43.07	150	171	Vertical
5	22735.35	50.30	41.50	-8.80	83.54	42.04	150	312	Vertical
6	25194.4	47.44	40.44	-7.00	83.54	43.10	150	156	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2482 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18905.675	53.33	41.47	-11.86	83.54	42.07	150	269	Horizontal
2	19999.625	52.31	41.25	-11.06	83.54	42.29	150	348	Horizontal
3	20603.55	51.83	41.42	-10.41	83.54	42.12	150	32	Horizontal
4	21708.55	50.16	40.40	-9.76	83.54	43.14	150	254	Horizontal
5	23919.825	48.52	40.01	-8.51	83.54	43.53	150	15	Horizontal
6	26026.975	47.90	39.89	-8.01	83.54	43.65	150	254	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	18488.325	53.17	41.04	-12.13	83.54	42.50	150	345	Vertical
2	18948.175	53.04	41.21	-11.83	83.54	42.33	150	314	Vertical
3	19999.625	53.21	42.25	-10.96	83.54	41.29	150	33	Vertical
4	20523.225	52.15	41.79	-10.36	83.54	41.75	150	237	Vertical
5	23853.525	49.32	40.87	-8.45	83.54	42.67	150	314	Vertical
6	25141.275	48.41	41.36	-7.05	83.54	42.18	150	2	Vertical

Note:

1. Radiated emissions measured in frequency range from 18GHz – 26.5GHz were made with an instrument using Peak/AV detector mode.
2. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it's unnecessary to perform an average measurement.
3. Above 18G test distance is 1m, so the Peak Limit= $74+20*\log(3/1)=83.54$ (dBμV/m), The limits are relaxed.
4. The IF bandwidth of Receiver between above was 1MHz.

Antenna 2:

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2403 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18855.525	53.33	41.44	-11.89	83.54	42.10	150	32	Horizontal
2	19999.625	54.40	43.34	-11.06	83.54	40.20	150	193	Horizontal
3	20424.625	52.64	42.06	-10.58	83.54	41.48	150	238	Horizontal
4	20645.625	53.44	43.07	-10.37	83.54	40.47	150	32	Horizontal
5	21876.85	49.76	39.99	-9.77	83.54	43.55	150	305	Horizontal
6	23934.275	48.44	39.94	-8.50	83.54	43.60	150	335	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	18872.525	53.20	41.32	-11.88	83.54	42.22	150	185	Vertical
2	20066.35	51.76	40.86	-10.90	83.54	42.68	150	106	Vertical
3	21100.375	51.20	41.22	-9.98	83.54	42.32	150	106	Vertical
4	21746.375	50.66	41.00	-9.66	83.54	42.54	150	344	Vertical
5	22582.775	49.48	40.44	-9.04	83.54	43.10	150	44	Vertical
6	25154.875	48.19	41.15	-7.04	83.54	42.39	150	13	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2442 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18617.525	52.25	40.16	-12.09	83.54	43.38	150	160	Horizontal
2	19833.875	52.04	40.88	-11.16	83.54	42.66	150	271	Horizontal
3	20207.875	51.98	41.12	-10.86	83.54	42.42	150	96	Horizontal
4	21320.525	50.94	40.97	-9.97	83.54	42.57	150	360	Horizontal
5	21819.475	50.48	40.71	-9.77	83.54	42.83	150	254	Horizontal
6	22911.725	49.77	41.09	-8.68	83.54	42.45	150	64	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	18854.25	53.12	41.23	-11.89	83.54	42.31	150	343	Vertical
2	19999.625	53.31	42.35	-10.96	83.54	41.19	150	328	Vertical
3	20664.325	51.91	41.72	-10.19	83.54	41.82	150	106	Vertical
4	21714.925	49.75	40.09	-9.66	83.54	43.45	150	30	Vertical
5	22553.025	50.11	41.02	-9.09	83.54	42.52	150	296	Vertical
6	23577.275	48.95	40.34	-8.61	83.54	43.20	150	171	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	24.5°C/55%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Zhang Zishan
Test Date	2022-12-15	Sample No.	E202211303743-0001
Frequency	2482 MHz	/	/

Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	18751.4	52.29	40.35	-11.94	83.54	43.19	150	32	Horizontal
2	19589.925	52.95	41.63	-11.32	83.54	41.91	150	62	Horizontal
3	19999.625	53.59	42.53	-11.06	83.54	41.01	150	192	Horizontal
4	20632.875	54.08	43.70	-10.38	83.54	39.84	150	32	Horizontal
5	21569.15	50.14	40.35	-9.79	83.54	43.19	150	79	Horizontal
6	23543.275	49.19	40.48	-8.71	83.54	43.06	150	158	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	18810.9	52.72	40.80	-11.92	83.54	42.74	150	313	Vertical
2	19407.175	52.99	41.50	-11.49	83.54	42.04	150	30	Vertical
3	19999.2	53.78	42.82	-10.96	83.54	40.72	150	16	Vertical
4	20632.875	54.46	44.23	-10.23	83.54	39.31	150	171	Vertical
5	22259.35	49.97	40.56	-9.41	83.54	42.98	150	141	Vertical
6	24610.025	48.49	40.86	-7.63	83.54	42.68	150	171	Vertical

Note:

1. Radiated emissions measured in frequency range from 18GHz – 26.5GHz were made with an instrument using Peak/AV detector mode.
2. According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it's unnecessary to perform an average measurement.
3. Above 18G test distance is 1m, so the Peak Limit= $74+20*\log(3/1)=83.54$ (dBμV/m), The limits are relaxed.
4. The IF bandwidth of Receiver between above was 1MHz.

6. RESTRICTED BANDS

6.1 LIMITS

Radiated emissions which fall in the restricted bands, as defined in §15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in §15.209(a).

Frequency(MHz)	Frequency(MHz)	Frequency(MHz)	Frequency(GHz)
0.090 - 0.110	16.42 - 16.423	1435 - 1626.5	4.5 – 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	1645.5 - 1646.5	5.35 – 5.46
2.1735 - 2.1905	16.80425 - 16.80475	1660 - 1710	7.25 -7.75
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	8.025 -8.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	2483.5 - 2500	10.6 - 12.7
6.26775 - 6.26825	108 – 121.94	2690 - 2900	13.25 - 13.4
6.31175 - 6.31225	123 – 138	3260 - 3267	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	3332 - 3339	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	3345.8 - 3358	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	3600 - 4400	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17		23.6 - 24.0
12.29 - 12.293	167.72 - 173.2		31.2 - 31.8
12.51975 - 12.52025	240 - 285		36.43 - 36.5
12.57675 - 12.57725	322 - 335.4		Above 38.6
13.36 - 13.41	399.9 – 410		
	608 – 614		
	960 - 1240		
	1300 - 1427		

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must exceed the limits shown in Table per Section 15.209.

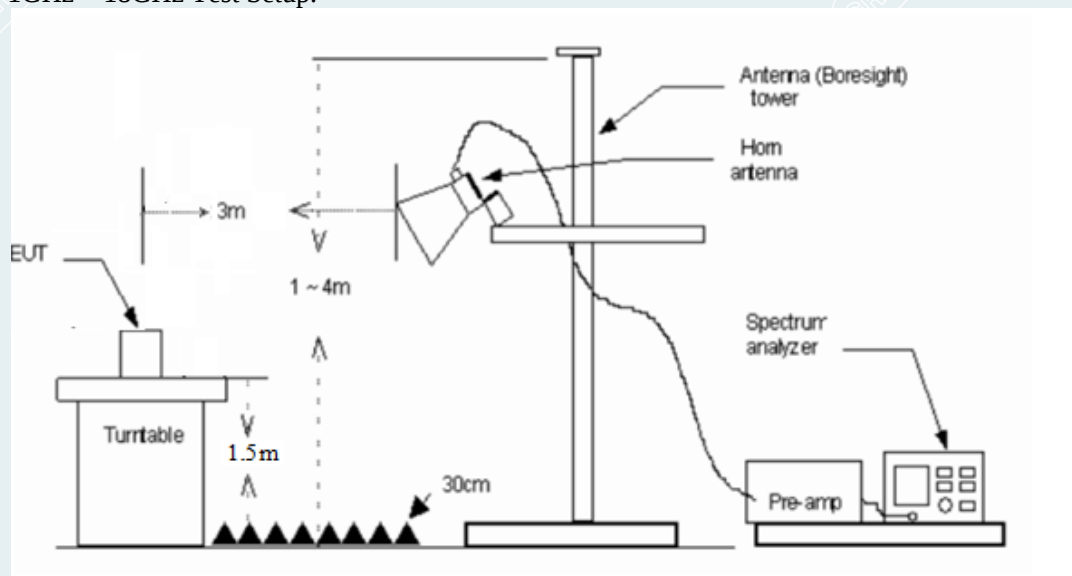
FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Field strength (microvolt/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-900	200	3
Above 960	500	3

6.2 TEST PROCEDURES

- 1) The EUT is placed on a turntable, which is 1.5m above the ground plane.
- 2) The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
- 5) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO.
- 6) AVERAGE: for AVG Level value=Peak Level value + Duty Cycle Factor.
- 7) Duty Cycle Factor= $20 \cdot \log(\text{Duty Cycle})$.
- 8) Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

6.3 TEST SETUP

1GHz ~ 18GHz Test Setup.

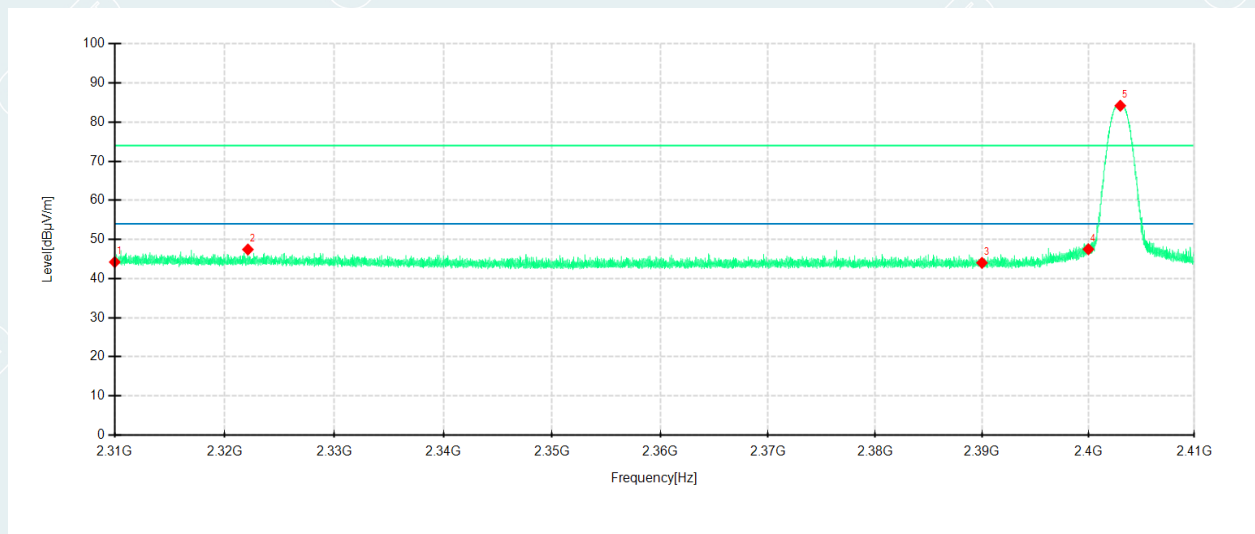


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6.4 TEST RESULT

Antenna 1:

EUT Name	Base Station	Model	E100
Environmental Conditions	22.5°C/56%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Chen xiaocong
Test Date	2022-12-27	Sample No.	E202211303743-0001
Frequency	2403 MHz	Detector mode	Peak

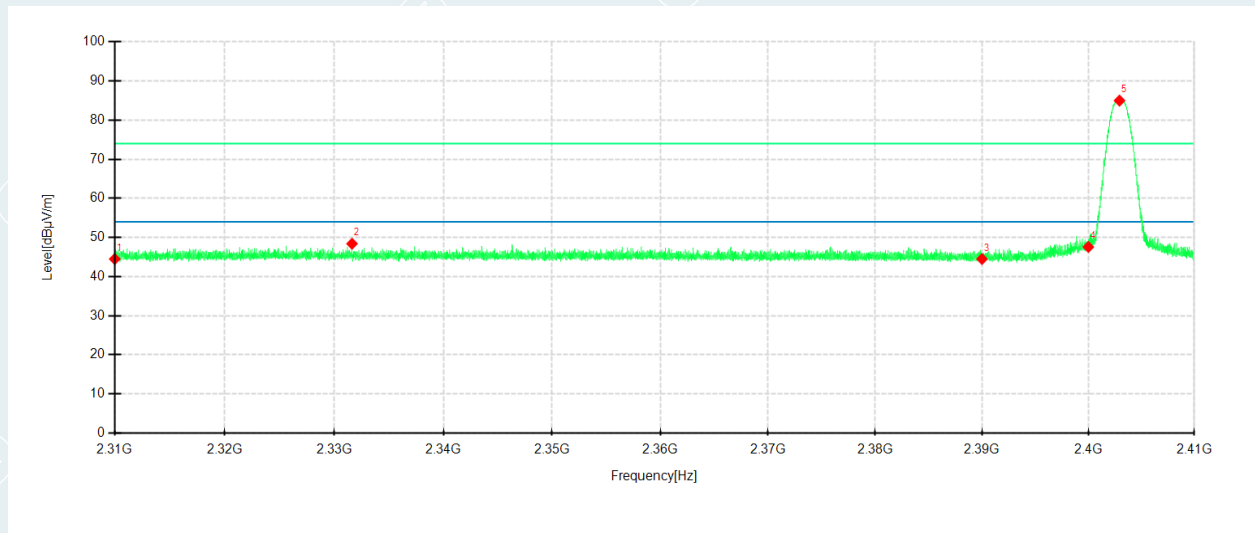


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	44.51	44.22	-0.29	74.00	29.78	100	190	Horizontal
2	2322.1075	47.99	47.43	-0.56	74.00	26.57	100	345	Horizontal
3	2390	44.87	44.02	-0.85	74.00	29.98	100	123	Horizontal
4	2400	48.27	47.50	-0.77	74.00	26.50	100	301	Horizontal
5	2403.0129	84.93	84.18	-0.75	--	--	100	345	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2310	22.84	54.00	31.16	Horizontal
2	2322.1075	26.05	54.00	27.95	Horizontal
3	2390	22.64	54.00	31.36	Horizontal
4	2400	26.12	54.00	27.88	Horizontal
5	2403.0129	62.8	--	--	Horizontal

EUT Name	Base Station	Model	E100
Environmental Conditions	22.5°C/56%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Chen xiaocong
Test Date	2022-12-27	Sample No.	E202211303743-0001
Frequency	2403 MHz	Detector mode	Peak

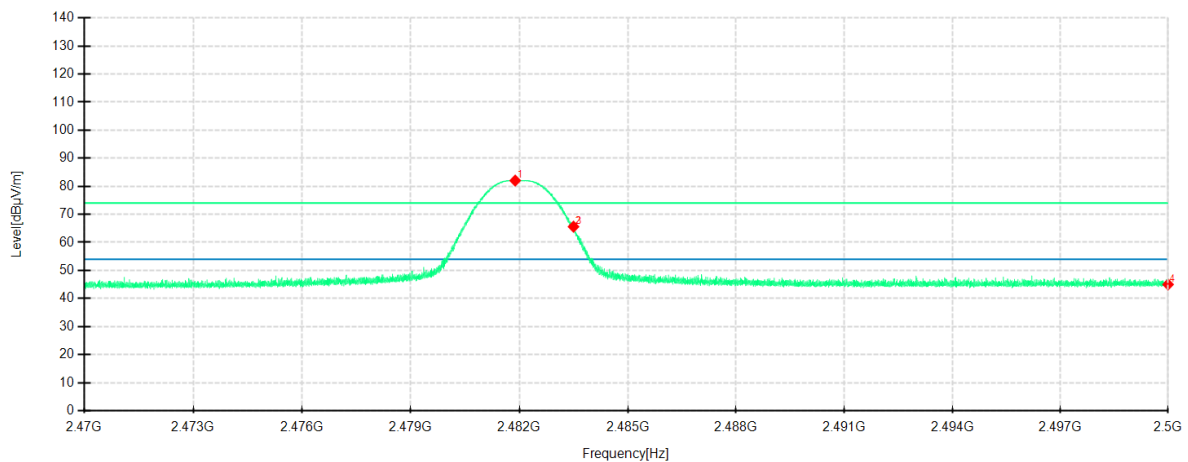


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	44.20	44.49	0.29	74.00	29.51	100	225	Vertical
2	2331.6214	47.97	48.40	0.43	74.00	25.60	100	149	Vertical
3	2390	44.20	44.49	0.29	74.00	29.51	100	16	Vertical
4	2400	47.34	47.57	0.23	74.00	26.43	100	16	Vertical
5	2402.9329	84.79	84.98	0.19	--	--	100	348	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2310	23.11	54.00	30.89	Vertical
2	2331.6214	27.02	54.00	26.98	Vertical
3	2390	23.11	54.00	30.89	Vertical
4	2400	26.19	54.00	27.81	Vertical
5	2402.9329	63.6	--	--	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	22.5℃/56%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Chen xiaocong
Test Date	2022-12-27	Sample No.	E202211303743-0001
Frequency	2482 MHz	Detector mode	Peak

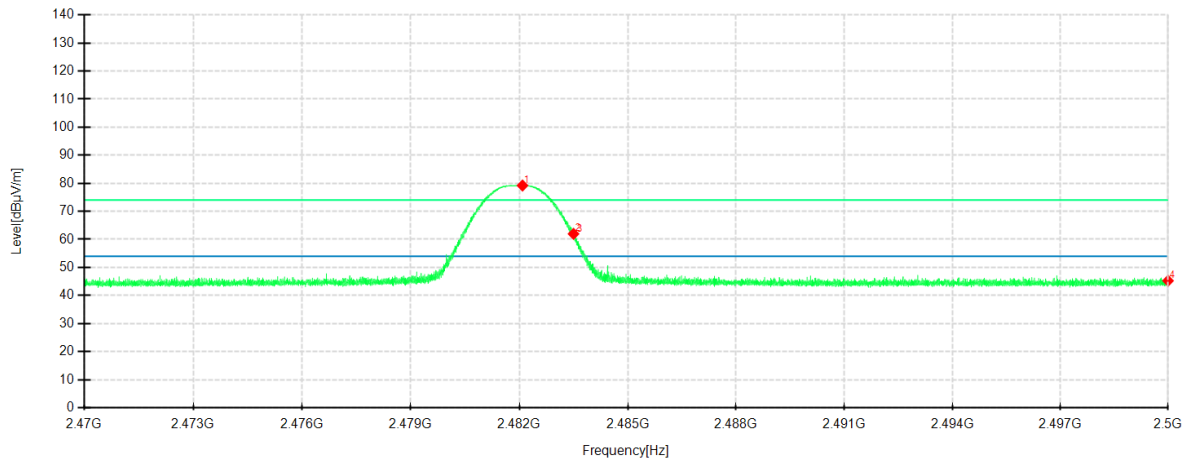


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2481.8868	81.81	82.04	0.23	--	--	100	334	Horizontal
2	2483.5	65.33	65.59	0.26	74.00	8.41	100	346	Horizontal
3	2483.5209	65.44	65.70	0.26	74.00	8.30	100	334	Horizontal
4	2500	44.42	45.00	0.58	74.00	29.00	100	101	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2481.8868	60.66	--	--	Horizontal
2	2483.5	44.21	54.00	9.79	Horizontal
3	2483.5209	44.32	54.00	9.68	Horizontal
4	2500	23.62	54.00	30.38	Horizontal

EUT Name	Base Station	Model	E100
Environmental Conditions	22.5°C/56%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Chen xiaocong
Test Date	2022-12-27	Sample No.	E202211303743-0001
Frequency	2482 MHz	Detector mode	Peak



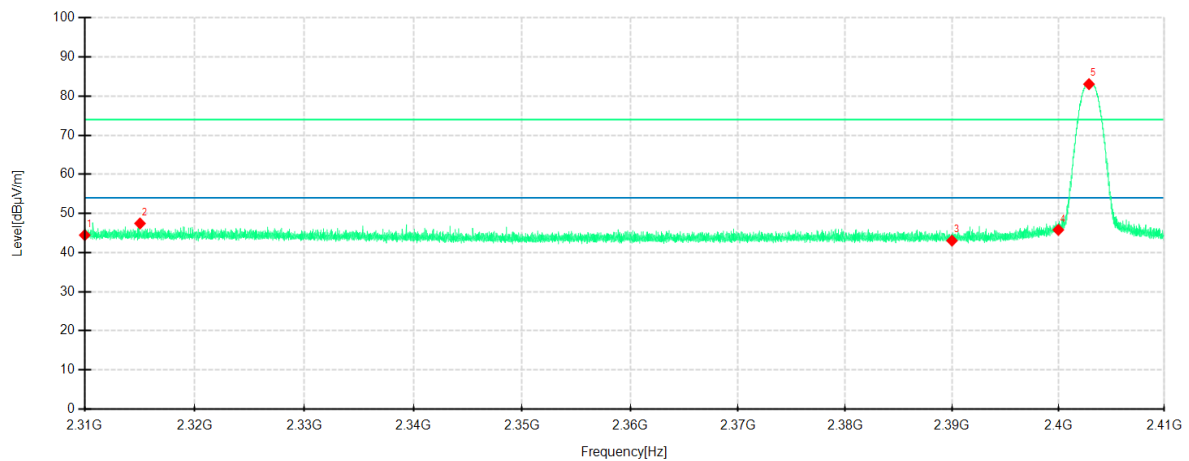
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2482.0888	79.58	79.20	-0.38	--	--	100	281	Vertical
2	2483.5	62.34	61.96	-0.38	74.00	12.04	100	281	Vertical
3	2483.5369	62.26	61.88	-0.38	74.00	12.12	100	281	Vertical
4	2500	45.57	45.25	-0.32	74.00	28.75	100	247	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2482.0888	57.82	--	--	Vertical
2	2483.5	40.58	54.00	13.42	Vertical
3	2483.5369	40.5	54.00	13.5	Vertical
4	2500	23.87	54.00	30.13	Vertical

Antenna 2:

EUT Name	Base Station	Model	E100
Environmental Conditions	22.5°C/56%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Chen xiaocong
Test Date	2022-12-27	Sample No.	E202211303743-0001
Frequency	2403 MHz	Detector mode	Peak

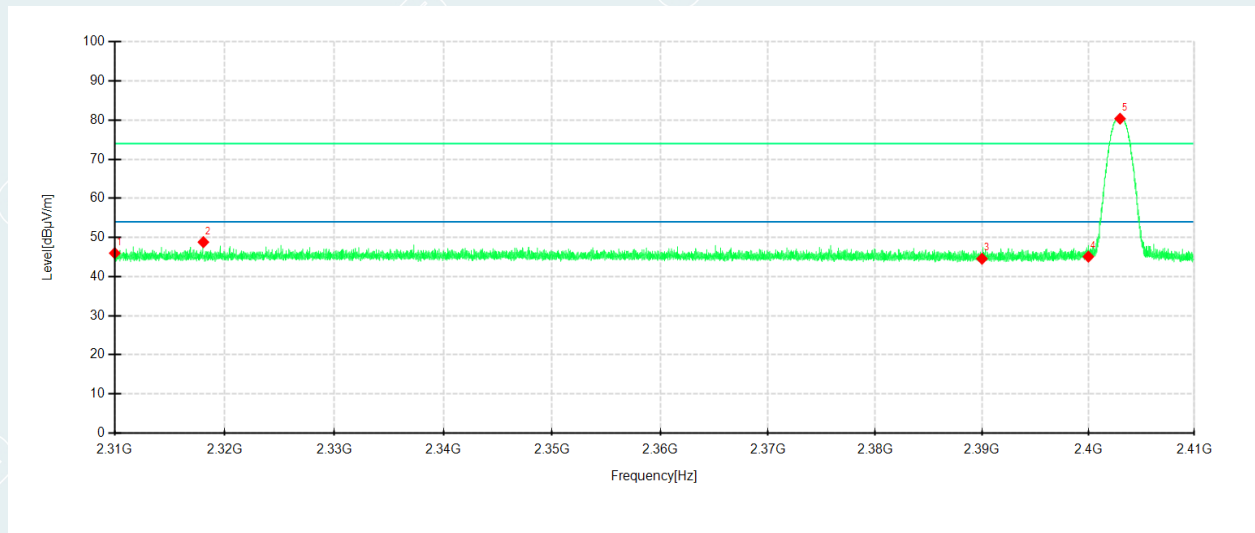


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	44.76	44.47	-0.29	74.00	29.53	100	122	Horizontal
2	2315.0203	47.85	47.45	-0.40	74.00	26.55	100	190	Horizontal
3	2390	43.90	43.05	-0.85	74.00	30.95	100	233	Horizontal
4	2400	46.57	45.80	-0.77	74.00	28.20	100	58	Horizontal
5	2402.8862	83.81	83.06	-0.75	--	--	100	78	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2310	11.74	54.00	42.26	Horizontal
2	2315.0203	14.72	54.00	39.28	Horizontal
3	2390	10.32	54.00	43.68	Horizontal
4	2400	13.07	54.00	40.93	Horizontal
5	2402.8862	50.33	--	--	Horizontal

EUT Name	Base Station	Model	E100
Environmental Conditions	22.5°C/56%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Chen xiaocong
Test Date	2022-12-27	Sample No.	E202211303743-0001
Frequency	2403 MHz	Detector mode	Peak

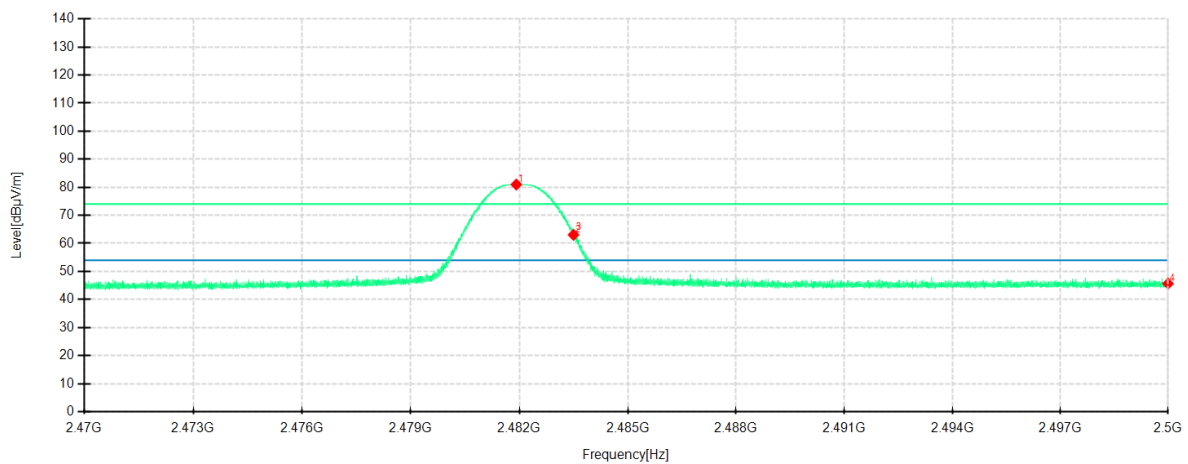


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2310	45.70	45.99	0.29	74.00	28.01	100	259	Vertical
2	2318.0539	48.47	48.81	0.34	74.00	25.19	100	92	Vertical
3	2390	44.27	44.56	0.29	74.00	29.44	100	149	Vertical
4	2400	44.86	45.09	0.23	74.00	28.91	100	270	Vertical
5	2402.9862	80.17	80.36	0.19	--	--	100	270	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2310	13.26	54.00	40.74	Vertical
2	2318.0539	16.08	54.00	37.92	Vertical
3	2390	11.83	54.00	42.17	Vertical
4	2400	12.36	54.00	41.64	Vertical
5	2402.9862	47.63	--	--	Vertical

EUT Name	Base Station	Model	E100
Environmental Conditions	22.5°C/56%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Chen xiaocong
Test Date	2022-12-27	Sample No.	E202211303743-0001
Frequency	2482 MHz	Detector mode	Peak

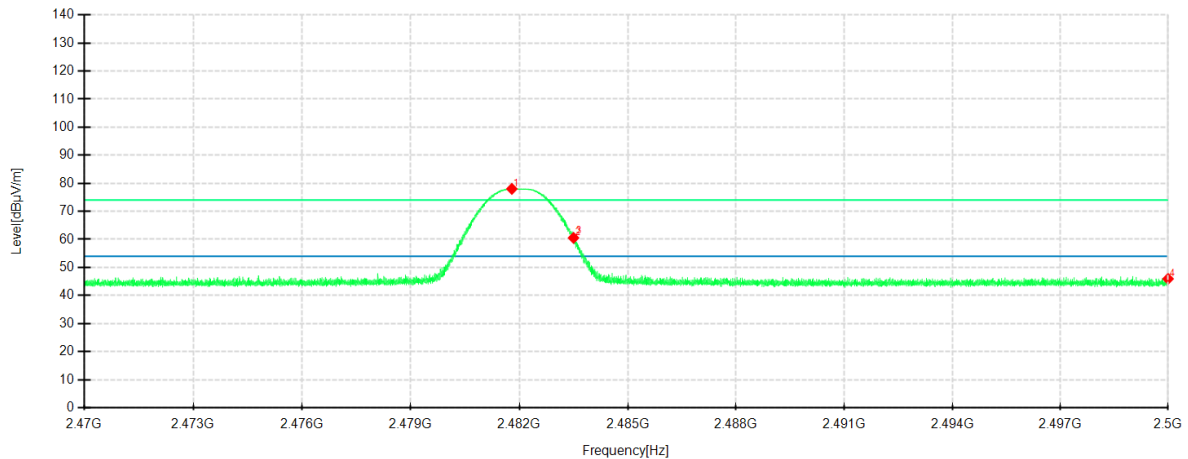


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2481.9188	80.74	80.97	0.23	--	--	100	146	Horizontal
2	2483.5	62.79	63.05	0.26	74.00	10.95	100	146	Horizontal
3	2483.5229	63.71	63.97	0.26	74.00	10.03	100	146	Horizontal
4	2500	45.06	45.64	0.58	74.00	28.36	100	290	Horizontal

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2481.9188	48.24	--	--	Horizontal
2	2483.5	30.32	54.00	23.68	Horizontal
3	2483.5229	31.24	54.00	22.76	Horizontal
4	2500	12.91	54.00	41.09	Horizontal

EUT Name	Base Station	Model	E100
Environmental Conditions	22.5°C/56%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Chen xiaocong
Test Date	2022-12-27	Sample No.	E202211303743-0001
Frequency	2482 MHz	Detector mode	Peak



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2481.7948	78.38	78.00	-0.38	--	--	100	260	Vertical
2	2483.5	60.90	60.52	-0.38	74.00	13.48	100	260	Vertical
3	2483.5269	61.54	61.16	-0.38	74.00	12.84	100	271	Vertical
4	2500	46.25	45.93	-0.32	74.00	28.07	100	271	Vertical

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Polarity
1	2481.7948	45.27	--	--	Vertical
2	2483.5	27.79	54.00	26.21	Vertical
3	2483.5269	28.43	54.00	25.57	Vertical
4	2500	13.2	54.00	40.8	Vertical

7. 20dB BANDWIDTH

7.1 LIMITS

The test of the item was performed in accordance with the standards §15.215(c).

7.2 TEST PROCEDURES

- 1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 2) Spectrum analyzer setup as per :The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW.
- 3) Set the spectrum analyzer as Span>Declare bandwidth, Sweep = auto.
- 4) Record 20dB of the bandwidth value.
- 5) Repeat above procedures until all frequencies measured were complete.

7.3 TEST SETUP



7.4 TEST RESULTS

Antenna 1:

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Test Result
Low	2403	0.768	PASS
Middle	2442	0.767	PASS
High	2482	0.774	PASS

Antenna 2:

Channel	Frequency (MHz)	20dB Bandwidth (MHz)	Test Result
Low	2403	0.767	PASS
Middle	2442	0.769	PASS
High	2482	0.768	PASS

Antenna1:

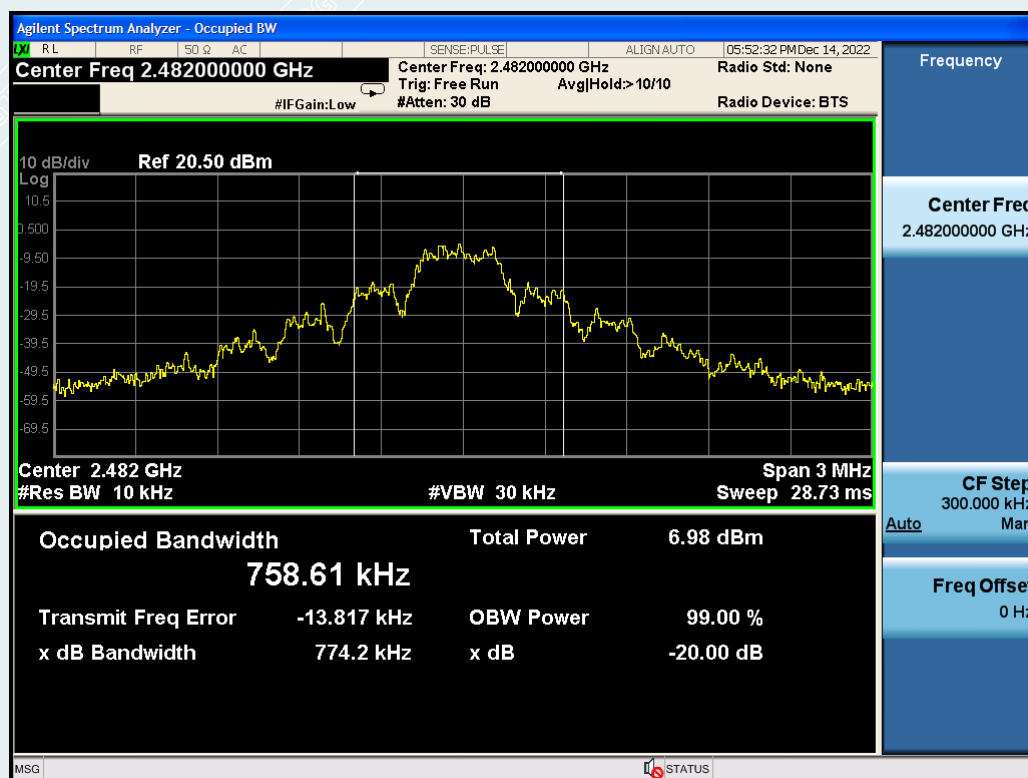
EUT Name	Base Station	Model	E100
Environmental Conditions	21.8°C/52%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Qin tingting
Test Date	2022-12-14	Sample No.	E202211303743-0002
Frequency	2403 MHz	/	/



EUT Name	Base Station	Model	E100
Environmental Conditions	21.8°C/52%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Qin tingting
Test Date	2022-12-14	Sample No.	E202211303743-0002
Frequency	2442 MHz	/	/



EUT Name	Base Station	Model	E100
Environmental Conditions	21.8°C/52%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Qin tingting
Test Date	2022-12-14	Sample No.	E202211303743-0002
Frequency	2482 MHz	/	/



Antenna2:

EUT Name	Base Station	Model	E100
Environmental Conditions	21.8°C/52%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Qin tingting
Test Date	2022-12-14	Sample No.	E202211303743-0002
Frequency	2403 MHz	/	/



EUT Name	Base Station	Model	E100
Environmental Conditions	21.8°C/52%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Qin tingting
Test Date	2022-12-14	Sample No.	E202211303743-0002
Frequency	2442 MHz	/	/



EUT Name	Base Station	Model	E100
Environmental Conditions	21.8°C/52%RH/101.0kPa	Test Mode	Mode 1
Power supply	DC 5V	Tested By	Qin tingting
Test Date	2022-12-14	Sample No.	E202211303743-0002
Frequency	2482 MHz	/	/



8. CONDUCTED EMISSION MEASUREMENT

8.1 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

NOTE: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases in line with the logarithm of the frequency in the range of 150kHz to 0.5MHz.

8.2 TEST PROCEDURES

Procedure of Preliminary Test

Test procedures follow ANSI C63.10:2013.

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.

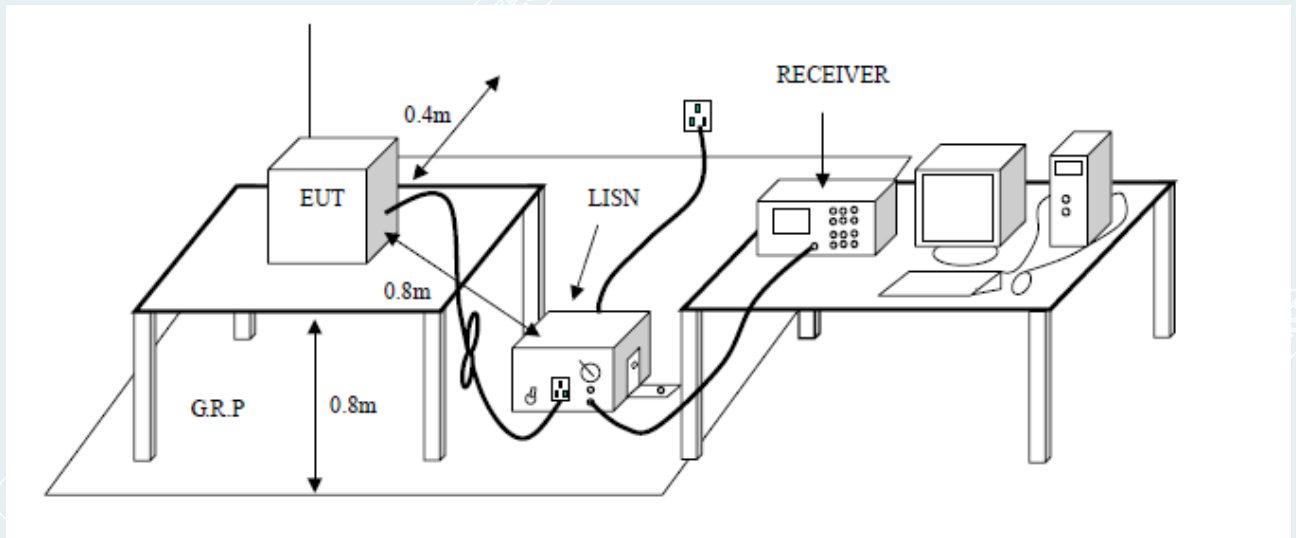
The test mode(s) described in Item 2.6 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.6 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference 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.

8.3 TEST SETUP



8.4 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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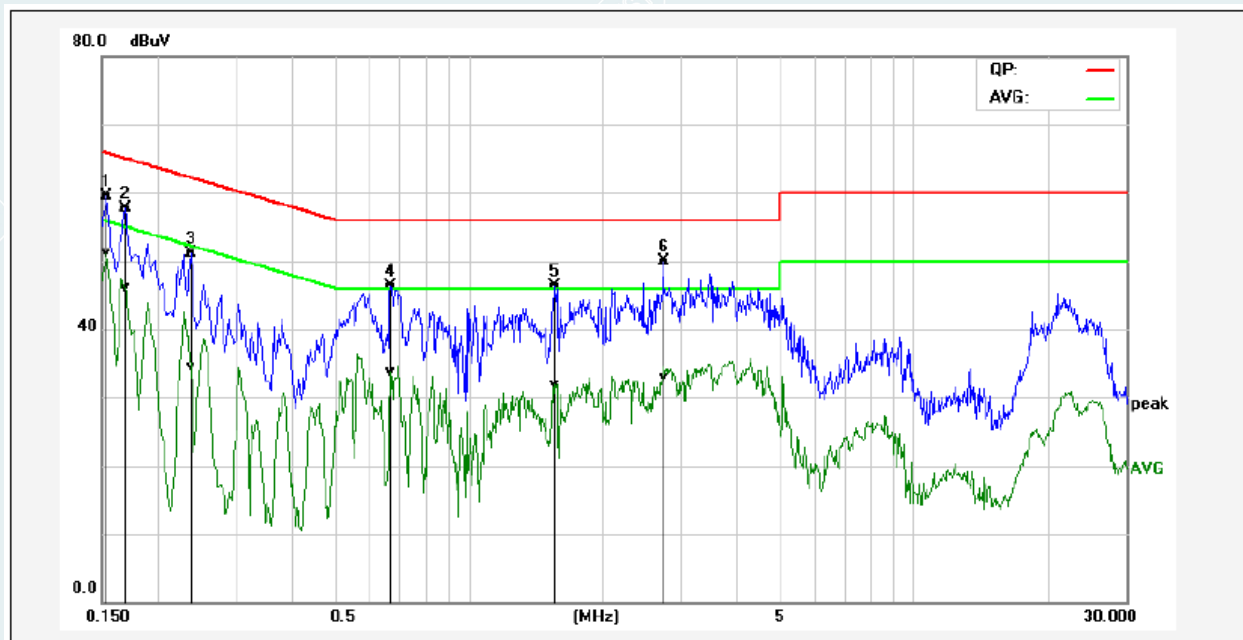
8.5 TEST RESULTS

Pre-test all test mode and recorded the worst case 2403MHz test results in the report.

Antenna 1:

EUT Name	Base Station	Model	E100
Environmental Conditions	23.5°C/45%RH/101.0kPa	Test Mode	2403MHz
Tested By	Tang Shenghui	Line	L
Tested Date	2022-12-30	Test Voltage	AC 120V/60Hz

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

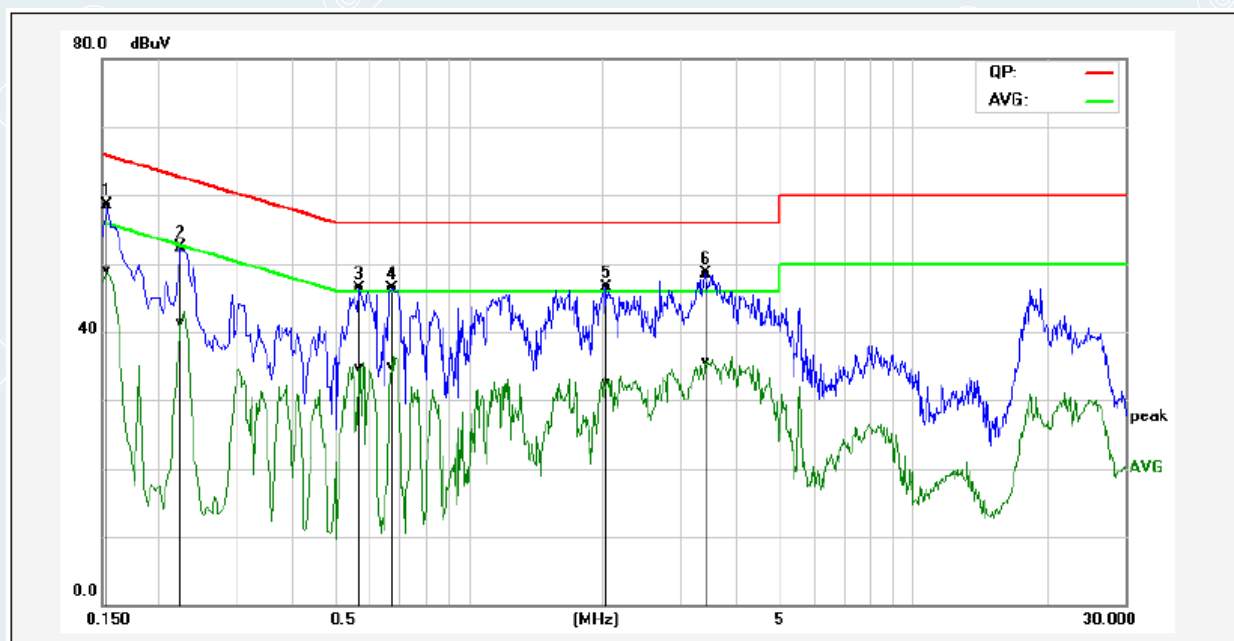


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1539	49.91	41.48	9.61	59.52	51.09	65.78	55.79	-6.26	-4.70	Pass
2	0.1700	48.16	36.41	9.61	57.77	46.02	64.96	54.96	-7.19	-8.94	Pass
3	0.2380	41.49	24.84	9.61	51.10	34.45	62.16	52.17	-11.06	-17.72	Pass
4	0.6700	36.65	24.06	9.62	46.27	33.68	56.00	46.00	-9.73	-12.32	Pass
5	1.5620	36.61	22.29	9.65	46.26	31.94	56.00	46.00	-9.74	-14.06	Pass
6	2.7460	40.14	23.29	9.67	49.81	32.96	56.00	46.00	-6.19	-13.04	Pass

REMARKS: L = Live Line

EUT Name	Base Station	Model	E100
Environmental Conditions	23.5°C/45%RH/101.0kPa	Test Mode	2403MHz
Tested By	Tang Shenghui	Line	N
Tested Date	2022-12-30	Test Voltage	AC 120V/60Hz

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



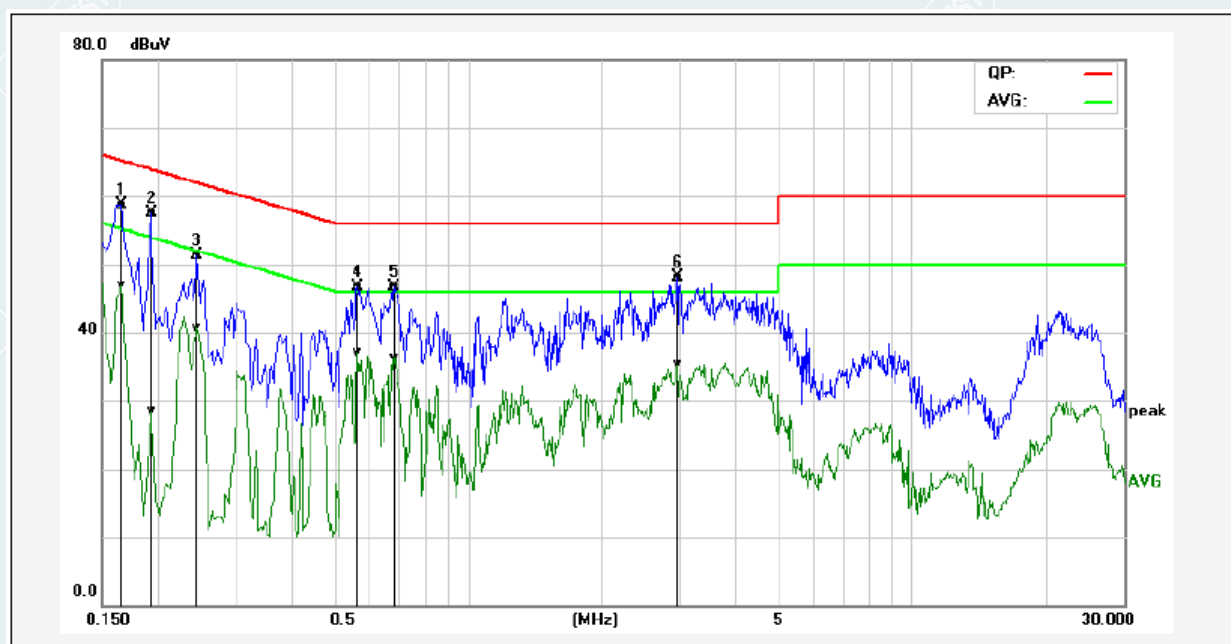
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1539	48.86	39.30	9.60	58.46	48.90	65.78	55.79	-7.32	-6.89	Pass
2	0.2260	42.68	31.70	9.60	52.28	41.30	62.59	52.60	-10.31	-11.30	Pass
3	0.5700	36.62	25.17	9.60	46.22	34.77	56.00	46.00	-9.78	-11.23	Pass
4	0.6740	36.70	25.33	9.61	46.31	34.94	56.00	46.00	-9.69	-11.06	Pass
5	2.0460	36.85	22.94	9.64	46.49	32.58	56.00	46.00	-9.51	-13.42	Pass
6	3.4260	38.85	25.94	9.66	48.51	35.60	56.00	46.00	-7.49	-10.40	Pass

REMARKS: N = Neutral Line.

Antenna 2:

EUT Name	Base Station	Model	E100
Environmental Conditions	23.5°C/45%RH/101.0kPa	Test Mode	2403MHz
Tested By	Tang Shenghui	Line	L
Tested Date	2022-12-30	Test Voltage	AC 120V/60Hz

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

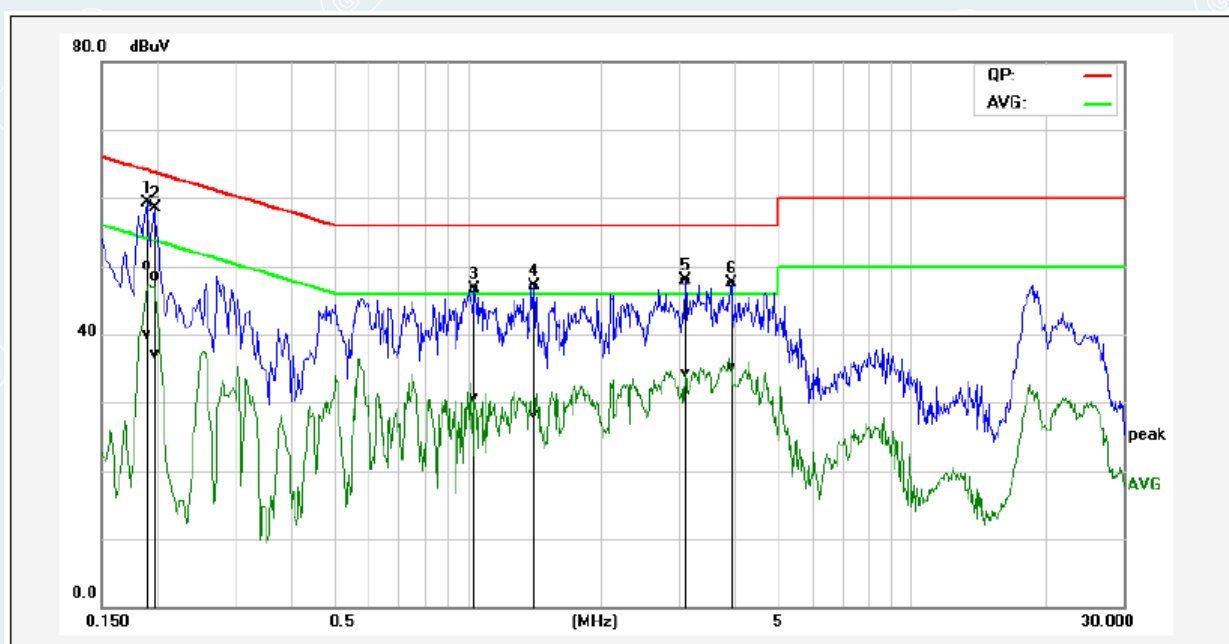


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1660	49.15	37.23	9.61	58.76	46.84	65.15	55.16	-6.39	-8.32	Pass
2	0.1940	47.84	18.94	9.61	57.45	28.55	63.86	53.86	-6.41	-25.31	Pass
3	0.2460	41.69	31.17	9.61	51.30	40.78	61.89	51.89	-10.59	-11.11	Pass
4	0.5660	37.10	27.57	9.61	46.71	37.18	56.00	46.00	-9.29	-8.82	Pass
5	0.6860	37.02	26.73	9.62	46.64	36.35	56.00	46.00	-9.36	-9.65	Pass
6	2.9620	38.37	25.54	9.67	48.04	35.21	56.00	46.00	-7.96	-10.79	Pass

REMARKS: L = Live Line

EUT Name	Base Station	Model	E100
Environmental Conditions	23.5°C/45%RH/101.0kPa	Test Mode	2403MHz
Tested By	Tang Shenghui	Line	N
Tested Date	2022-12-30	Test Voltage	AC 120V/60Hz

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



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	0.1901	40.42	30.24	9.60	50.02	39.84	64.03	54.03	-14.01	-14.19	Pass
2	0.1958	38.91	27.55	9.60	48.51	37.15	63.78	53.79	-15.27	-16.64	Pass
3	1.0380	37.17	21.01	9.63	46.80	30.64	56.00	46.00	-9.20	-15.36	Pass
4	1.4180	37.57	18.69	9.63	47.20	28.32	56.00	46.00	-8.80	-17.68	Pass
5*	3.1060	38.19	24.72	9.66	47.85	34.38	56.00	46.00	-8.15	-11.62	Pass
6	3.9300	37.73	25.42	9.68	47.41	35.10	56.00	46.00	-8.59	-10.90	Pass

REMARKS: N = Neutral Line.

9. APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM

Please refer to the attached document E202211303743-6-Test setup photo.

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10. APPENDIX B. PHOTOGRAPH OF THE EUT

Please refer to the attached document E202211303743-7-EUT Photo.

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