

FCC CERTIFICATION TEST REPORT

Applicant:	iFIT Health and Fitness, Inc.
Address:	1500 S 1000 W, Logan, Utah 84321, United States
Manufacturer:	Guangzhou Yuandong Smart Sports Technology Co., Ltd.
Address:	Room 518, No. 198, Kezhu Road, Huangpu District, Guangzhou
Product Description:	Tablet
Brand Name:	iFIT
Tested Model:	MP24-Xenon-V; MP16-Xenon-V; MP10-Xenon-V
FCC ID:	OMC453584V
Report No.:	JCF240131021-002
Received Date:	Jan. 31, 2024
Tested Date:	Jan. 31, 2024 ~ Mar. 07, 2024
Issued Date:	Mar. 07, 2024
Test Standards:	FCC Rules and Regulations Part 15 Subpart C
Test Procedure:	ANSI C63.10:2013
Test Result:	Pass

Prepared By:  <u>Roger Li/Engineer</u>	Date: Mar. 07, 2024
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Reviewed By:  <u>Kennys Zhang/Engineer</u>	Date: Mar. 07, 2024
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Approved By:  <u>Talent Zhang/Engineer</u>	Date: Mar. 07, 2024
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Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 07, 2024	Original Report	/

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1. Test Report Declare

Applicant:	iFIT Health and Fitness, Inc.
Address:	1500 S 1000 W, Logan, Utah 84321, United States
Manufacturer:	Guangzhou Yuandong Smart Sports Technology Co., Ltd.
Address:	Room 518, No. 198, Kezhu Road, Huangpu District, Guangzhou
Product Name:	Tablet
Brand Name:	iFIT
Model Name:	MP24-Xenon-V; MP16-Xenon-V; MP10-Xenon-V
Difference Description:	The three size variants of the product only differ in appearance, dimensions, and display circuitry, while everything else remains the same. All models share the same main chip and RF hardware, including modules, crystal oscillators, antennas, etc., and have identical functionality.

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

2. Summary of Test Results

Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	6 dB Bandwidth	FCC Part 15.247 (a) (2)	Pass
2	Peak Conducted Output Power	FCC Part 15.247 (b) (3)	Pass
3	Power Spectral Density	FCC Part 15.247 (e)	Pass
4	Conducted Bandedge and Spurious Emission	FCC Part 15.247 (d)	Pass
5	Radiated Bandedge and Spurious Emission	FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205	Pass
6	Conducted Emission Test For AC Power Port	FCC Part 15.207	Pass
7	Antenna Requirement	FCC Part 15.203	Pass

Note: The model: MP24-Xenon-V; MP16-Xenon-V; MP10-Xenon-V share the same main chip and RF hardware, including modules, crystal oscillators, antennas, etc., and have identical functionality. So except for item 5&6 above, which requires all models to be tested, the remaining items only test model MP24-Xenon-V.

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. Equipment Under Test

4.1. Description of EUT

EUT Name:	Tablet
Model Number:	MP24-Xenon-V; MP16-Xenon-V; MP10-Xenon-V
EUT Function Description:	Refer to user manual
Power Supply:	DC 12V 3A
Hardware Version:	N/A
Software Version:	N/A
Radio Specification:	Bluetooth V5.2
Operation Frequency:	2402 MHz - 2480 MHz
Modulation:	GFSK
Data Rate:	1Mbps, 2Mbps,
Antenna Type:	FPC Antenna, MAX. Gain: 5.16 dBi

Antenna Gain:		
MP10-Xenon-V	BT ANT	2.4G: 3.14dBi
	WIFI ANT1	2.4G: 2.67dBi; 5G: 2.89dBi
	WIFI ANT 2	2.4G: 1.96dBi; 5G: 1.37dBi
MP16-Xenon-V	BT ANT	2.4G: 4.90dBi
	WIFI ANT1	2.4G: 3.90dBi; 5G: 3.81dBi
	WIFI ANT 2	2.4G: 4.55dBi; 5G: 3.27dBi
MP24-Xenon-V	BT ANT	2.4G: 5.16dBi
	WIFI ANT1	2.4G: 4.81dBi; 5G: 4.37dBi
	WIFI ANT 2	2.4G: 4.39dBi; 5G: 5.83dBi

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

4.2. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	11	2424	22	2446	33	2468
1	2404	12	2426	23	2448	34	2470
2	2406	13	2428	24	2450	35	2472
3	2408	14	2430	25	2452	36	2474
4	2410	15	2432	26	2454	37	2476
5	2412	16	2434	27	2456	38	2478
6	2414	17	2436	28	2458	39	2480
7	2416	18	2438	29	2460	/	/
8	2418	19	2440	30	2462	/	/
9	2420	20	2442	31	2464	/	/
10	2422	21	2444	32	2468	/	/

4.3. Test Channel Configuration

Tested mode, channel, information		
Mode	Channel	Frequency (MHz)
GFSK	LCH:CH0	2402
	MCH:CH19	2440
	HCH:CH39	2480

4.4. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

4.5. The Worse Case Power Setting Parameter

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software		Adb instruction		
Modulation Type	Transmit Antenna Number	Test Software Setting Value		
		CH 00	CH 39	CH 78
GFSK	1	Default	Default	Default

4.6. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
GFSK	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

5. Description of Test Setup

5.1. Accessory

Description of Accessories	Manufacturer	Model Number	Description	Remark
N/A	N/A	N/A	N/A	N/A

5.2. Support Equipment

Equipment	Brand Name	Model Name	P/N
PC	Lenovo	T480	/
Adapter	SOY	SOY-1200300	/

5.3. Test Setup

The EUT can work in Fixed Frequency mode.

5.4. Setup Diagram for Tests



6. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
AC Power Conduction emission	1.37 dB
All Radiated emissions	5.4dB
Conducted emissions	3.09 dB
Occupied Channel Bandwidth	1.1%
Conducted Output power	0.82dB
Power Spectral Density	0.82dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of $k = 2$.

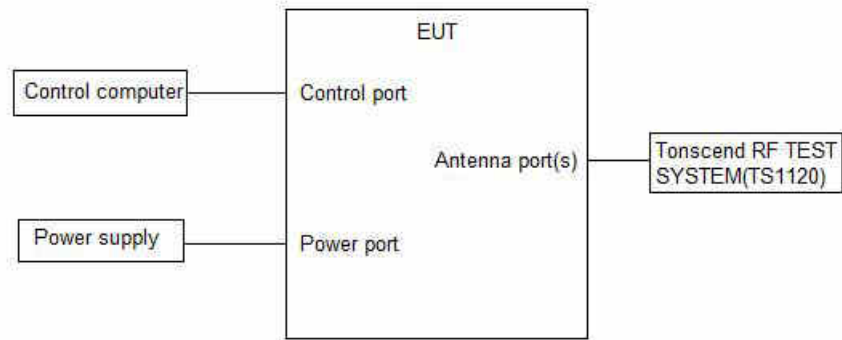
7. Measuring Instrument and Software Used

TS Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Spectrum Analyzer	Keysight	N9030B	MY56320512	Sep. 12, 2023	Sep. 11, 2024
☒	Vector Signal Generator	Keysight	N5182B	MY57300334	Sep. 12, 2023	Sep. 11, 2024
☒	Signal Generator	Keysight	N5171B	MY57280639	Sep. 12, 2023	Sep. 11, 2024
☒	DC POWER	Keysight	E342A	MY59020356	Jul. 14, 2023	Jul. 13, 2024
☒	Incubator thermometer	GWS	EL-02JA	21107288	Sep. 12, 2023	Sep. 11, 2024
☒	Control unit(Power sensor)	Tonscend	JS0806-2	/	Sep. 12, 2023	Sep. 11, 2024
☒	Wideband radio communication tester	R&S	CMW500	163478	Jul. 11, 2023	Jul. 10, 2024
☒	Spectrum Analyzer	Keysight	N9020B	MY60112206	Sep. 12, 2023	Sep. 12, 2024
☒	Control unit(Power sensor)	Tonscend	JS0806-2	21H8060465	Sep. 12, 2023	Sep. 12, 2024
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	JS1120-3		V3.3.10	
RSE Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	EMI Receiver	R&S	ESW	101685	Jul. 12, 2023	Jul. 11, 2024
☒	Bilog Antenna	Schwarzbeck	VULB 9163	01416	Mar. 21, 2023	Mar. 20, 2024
☒	Horn Antenna 1	Schwarzbeck	BBHA 9120 D	02411	May. 25, 2023	May. 24, 2024
☒	Horn Antenna 2	ETS	BBHA 9170	1090	Sep. 04, 2023	Sep. 03, 2024
☒	loop-antenna	Schwarzbeck	FMZB 1513-60	00030	Jan. 14, 2024	Jan. 13, 2025
☒	Signal Pre-Amplifier	Tonscend	TAP01018050	AP21C806122	Jul. 10, 2023	Jul. 09, 2024

☒	Signal Pre-Amplifier	Tonscend	TAP9K3G32	AP20K806104	Jul. 10, 2023	Jul. 09, 2024
☒	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Aug. 24, 2023	Aug. 23, 2024
☒	3m Fully-anechoic Chamber	ETS	RFD-100	/	Apr. 24, 2021	Apr. 23, 2024
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	TS+		V3.0.0.4	
Conducted Emission Test For AC Power Port						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	LISN	R&S	ENV216	102154	Jul. 10, 2023	Jul. 09, 2024
☒	EMI Receiver	R&S	ESR3	102509	Jul. 12, 2023	Jul. 11, 2024
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	EZ	EZ-EMC		EMEC-3A1	
Other Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Temperature & Humidity	Temperature	HTC-1	/	Nov. 02, 2023	Nov. 01, 2024

8. On Time and Duty Cycle

8.1. Block diagram of test setup



8.2. Limits

None; for reporting purposes only

8.3. Procedure

KDB 558074 Zero-Span Spectrum Analyzer Method

8.4. Results

Test Mode	Ant.	Freq. (MHz)	ON Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
BLE_1M	Ant1	2402	0.38	0.62	61.29	2.13
		2440	0.38	0.62	61.29	2.13
		2480	0.38	0.62	61.29	2.13
BLE_2M	Ant1	2402	1.07	1.87	57.22	2.42
		2440	1.07	1.87	57.22	2.42
		2480	1.07	1.87	57.22	2.42

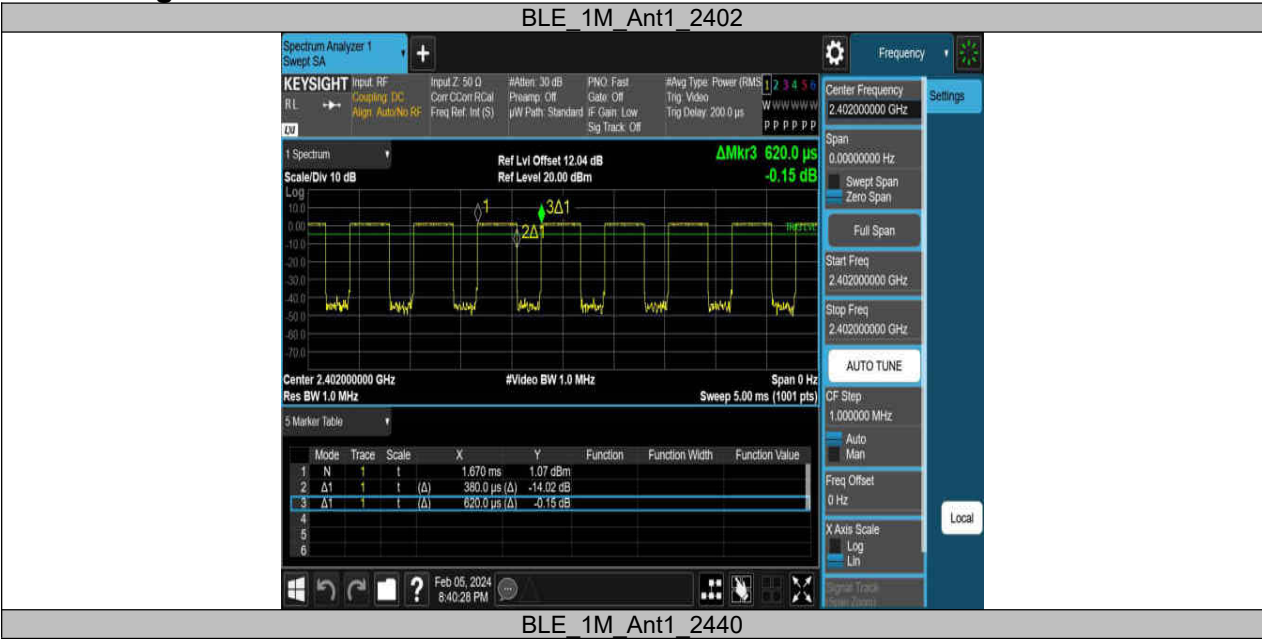
Note: Duty Cycle Correction Factor = $10\log(1/x)$.

Where: x is Duty Cycle(Linear)

Where: T is On Time (transmit duration)

If that calculated VBW is not available on the analyzer, then the next higher value should be used.

8.5. Original test data







9. 6 dB DTS Bandwidth

9.1. Block diagram of test setup

Same as section 8.1

9.2. Limits

CFR 47FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5

9.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth :100 kHz For 99 % Occupied Bandwidth :1 % to 5 % of the occupied bandwidth
VBW	For 6 dB Bandwidth : $\geq 3 \times$ RBW For 99 % Occupied Bandwidth : $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB/99 % relative to the maximum level measured in the fundamental emission.

9.4. Results

Test Mode	Ant.	Freq. (MHz)	DTS BW (MHz)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
BLE_1M	Ant1	2402	0.620	2401.712	2402.332	0.5	PASS
		2440	0.696	2439.624	2440.320	0.5	PASS
		2480	0.676	2479.716	2480.392	0.5	PASS
BLE_2M	Ant1	2402	1.248	2401.420	2402.668	0.5	PASS
		2440	1.208	2439.440	2440.648	0.5	PASS
		2480	1.256	2479.316	2480.572	0.5	PASS

Test Mode	Antenna	Frequency (MHz)	OCB (MHz)	FL(MHz)	FH(MHz)	Limit(MHz)	Verdict
BLE_1M	Ant1	2402	1.0492	2401.4863	2402.5355	---	---
		2440	1.0530	2439.4836	2440.5366	---	---
		2480	1.0492	2479.4943	2480.5435	---	---
BLE_2M	Ant1	2402	2.0398	2400.9953	2403.0351	---	---
		2440	2.0807	2438.9672	2441.0479	---	---
		2480	2.1000	2478.9566	2481.0566	---	---

9.5. Original test data

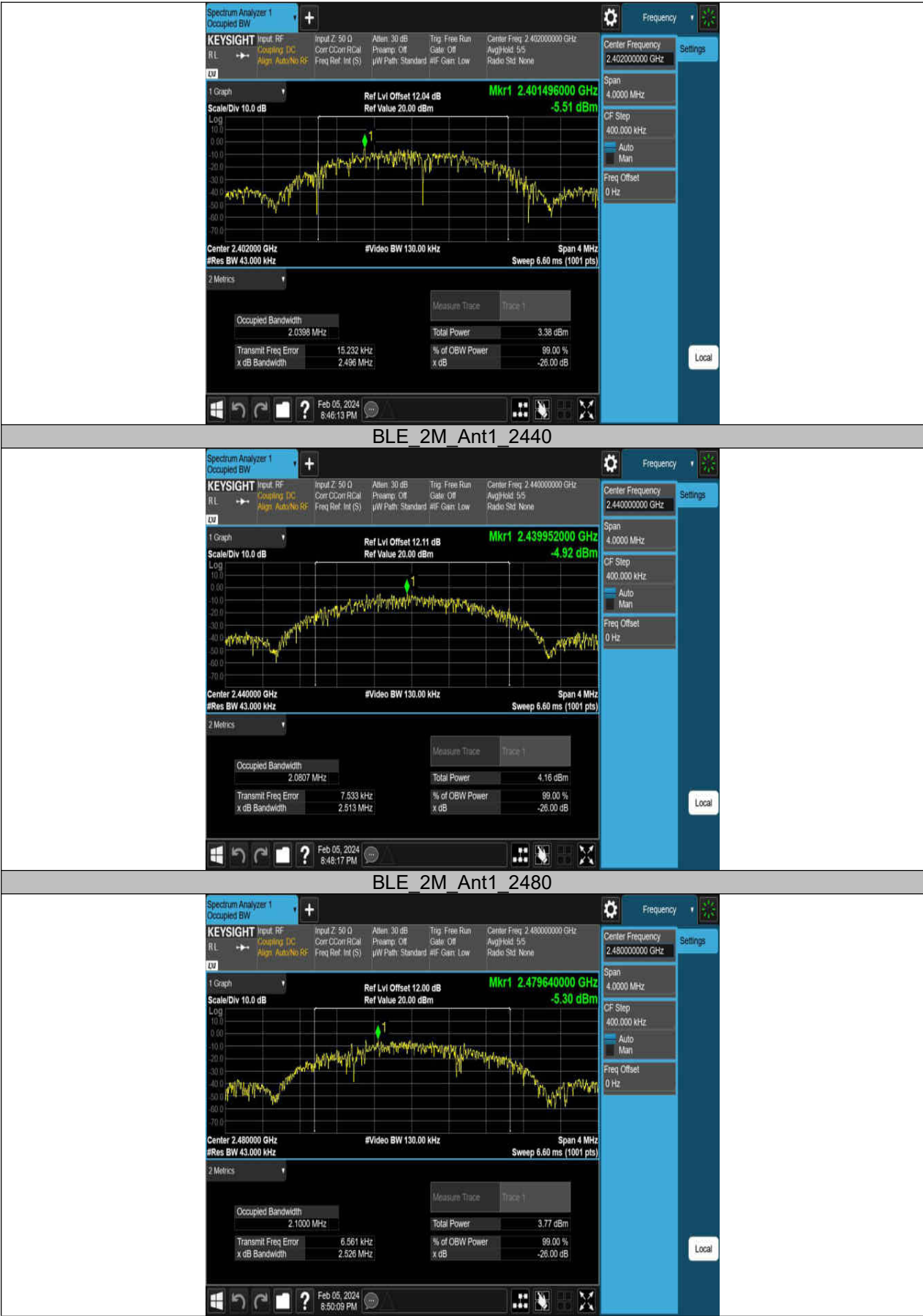
6 dB bandwidth:





99% bandwidth





10. Peak Conducted Output Power

10.1. Block diagram of test setup

Same as section 8.1

10.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	Peak Output Power	1 watt or 30 dBm	2400 - 2483.5

10.3. Test Procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

99% Bandwidth set the spectrum analyzer as follows:

RBW:	30 kHz
VBW:	100 kHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

6 dB Bandwidth set the spectrum analyzer as follows:

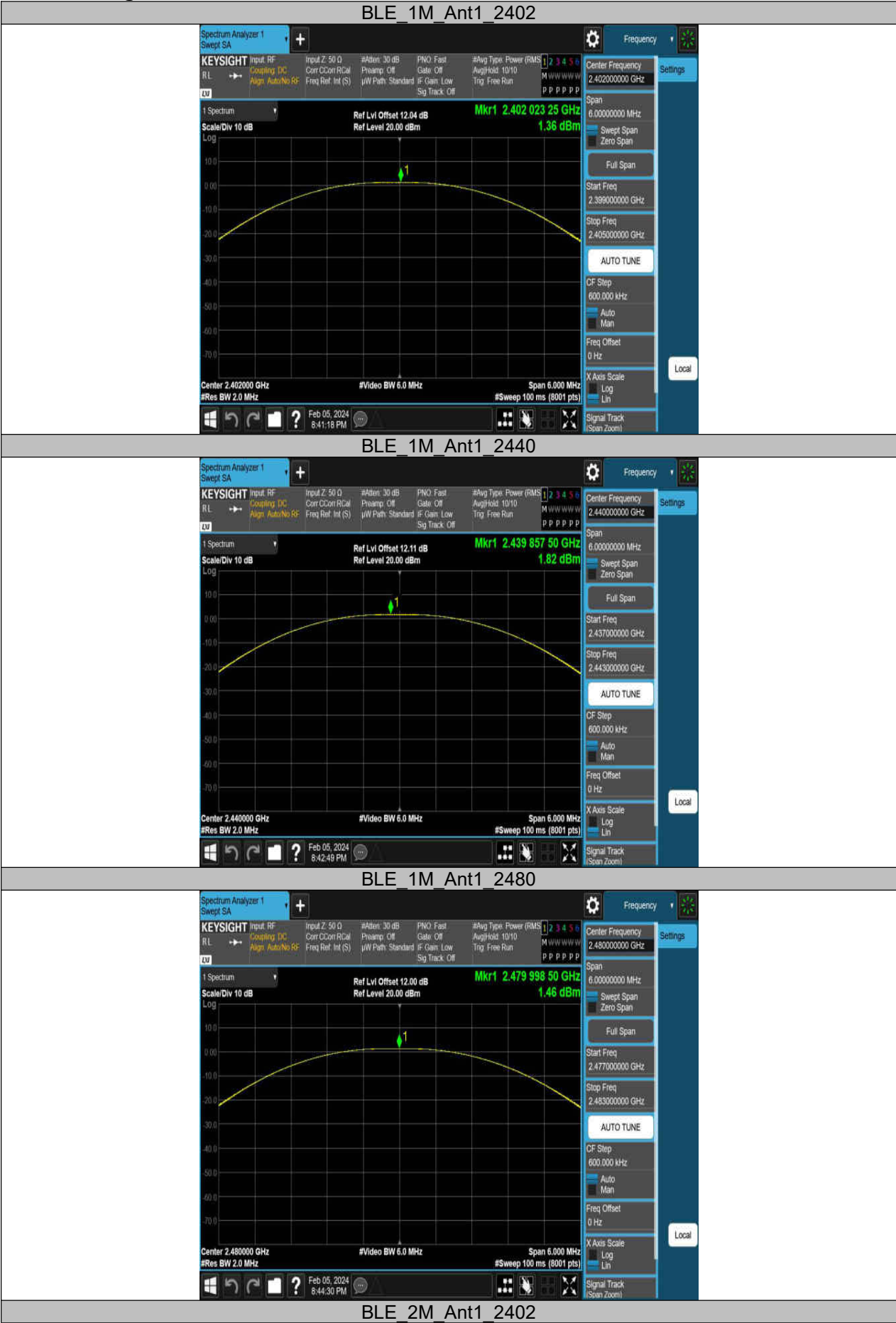
RBW:	100 kHz
VBW:	300 kHz
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

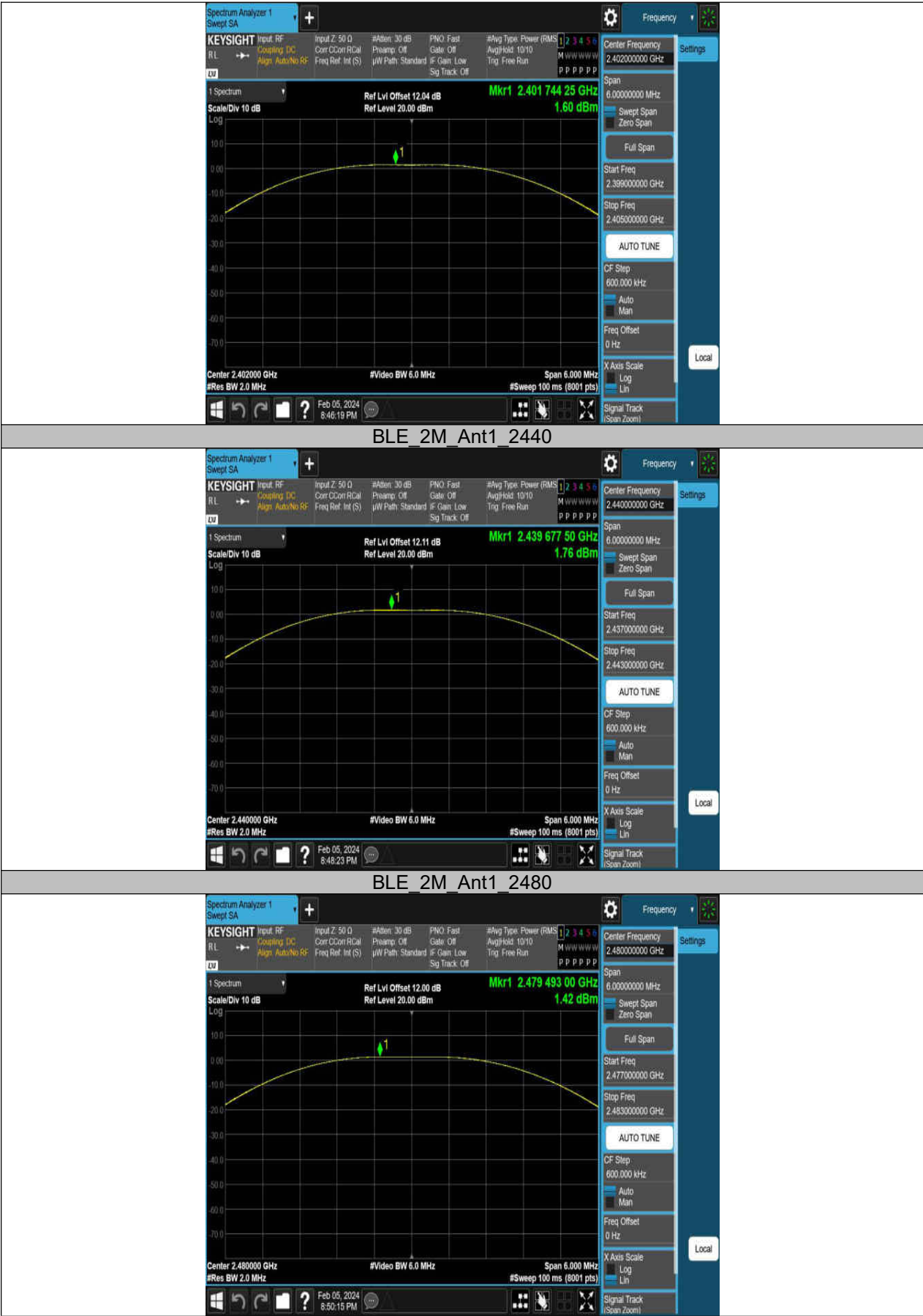
Allow the trace to stabilize, measure the 6 dB and 99% bandwidth of signal.

10.4. Results

Test Mode	Ant.	Freq (MHz)	Conducted Peak Power (dBm)	Conducted Limit (dBm)	Verdict
BLE_1M	Ant1	2402	1.37	≤30	PASS
		2440	1.82	≤30	PASS
		2480	1.46	≤30	PASS
BLE_2M	Ant1	2402	1.60	≤30	PASS
		2440	1.76	≤30	PASS
		2480	1.43	≤30	PASS

10.5. Original test data





11. Power Spectral Density

11.1. Block diagram of test setup

Same as section 8.1

11.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm in any 3 kHz band	2400 - 2483.5

11.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	$3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

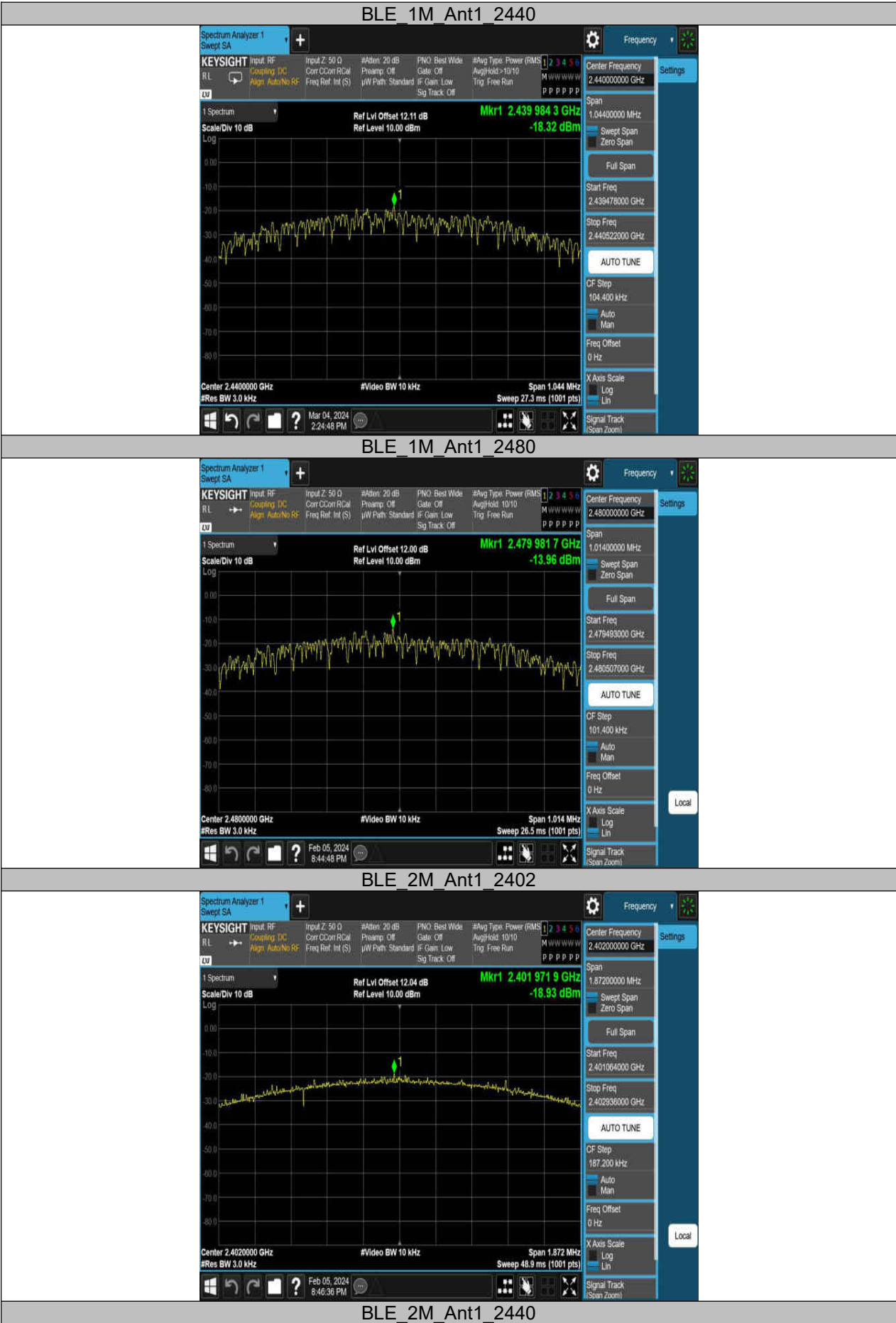
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

11.4. Results

Test Mode	Ant.	Freq. (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE_1M	Ant1	2402	-13.96	≤8.00	PASS
		2440	-18.61	≤8.00	PASS
		2480	-13.96	≤8.00	PASS
BLE_2M	Ant1	2402	-18.93	≤8.00	PASS
		2440	-17.43	≤8.00	PASS
		2480	-19.70	≤8.00	PASS

11.5. Original test data







12. Conducted Bandedge and Spurious Emissions

12.1. Block diagram of test setup

Same as section 8.1

12.2. Limits

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Band edge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

12.3. Test Procedure

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	$\geq 1.5 \times \text{DTS bandwidth}$
Trace	Max hold
Sweep time	Auto couple

Connect the UUT to the spectrum analyzer and use the following settings:

Use the peak marker function to determine the maximum peak power level to establish the reference level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span/RBW}$
Trace	Max hold
Sweep time	Auto couple

Use the peak marker function to determine the maximum amplitude level.

12.4. Results

Band edge

Test Mode	Ant.	Ch Name	Freq. (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
BLE_1M	Ant1	Low	2402	0.59	-47.86	≤ -19.41	PASS
		High	2480	0.66	-48.51	≤ -19.34	PASS
BLE_2M	Ant1	Low	2402	0.60	-36.25	≤ -19.4	PASS
		High	2480	0.58	-48.14	≤ -19.42	PASS

Spurious Emissions

Test Mode	Ant.	Freq. (MHz)	Freq Range (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
BLE_1M	Ant1	2402	30~1000	0.59	-60.12	≤-19.41	PASS
			1000~26500	0.59	-50.23	≤-19.41	PASS
		2440	30~1000	0.67	-61.28	≤-19.33	PASS
			1000~26500	0.67	-50.43	≤-19.33	PASS
		2480	30~1000	0.66	-60.57	≤-19.34	PASS
			1000~26500	0.66	-49.52	≤-19.34	PASS
BLE_2M	Ant1	2402	30~1000	0.60	-60.47	≤-19.4	PASS
			1000~26500	0.60	-50.59	≤-19.4	PASS
		2440	30~1000	0.91	-61.41	≤-19.09	PASS
			1000~26500	0.91	-49.37	≤-19.09	PASS
		2480	30~1000	0.58	-62.07	≤-19.42	PASS
			1000~26500	0.58	-50.16	≤-19.42	PASS

12.5. Original test data

Band edge:

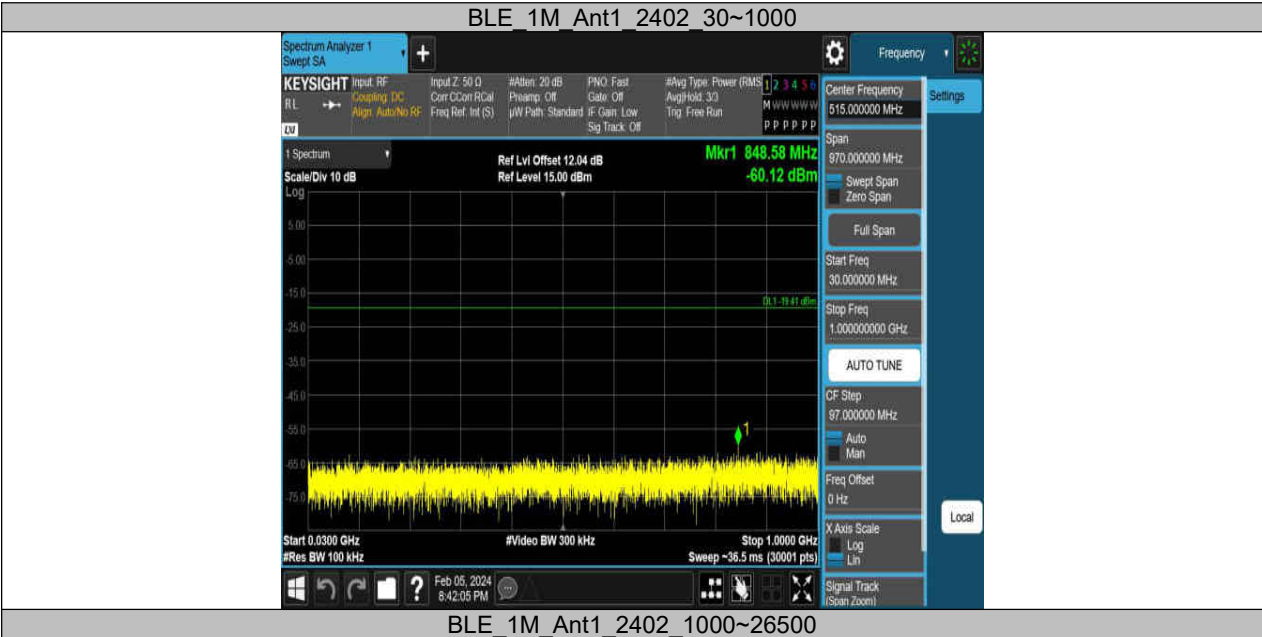


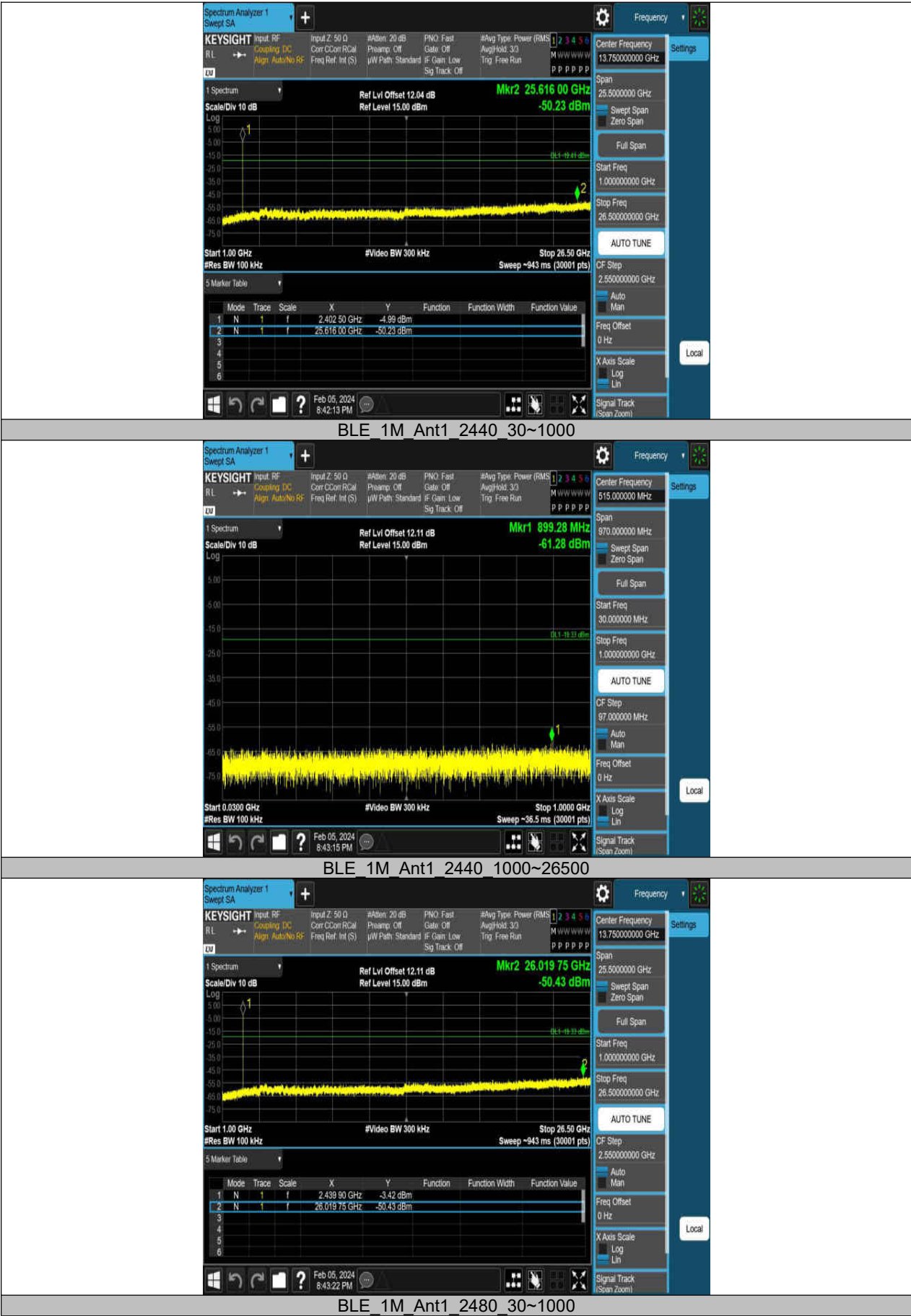


BLE 2M Ant1 High 2480

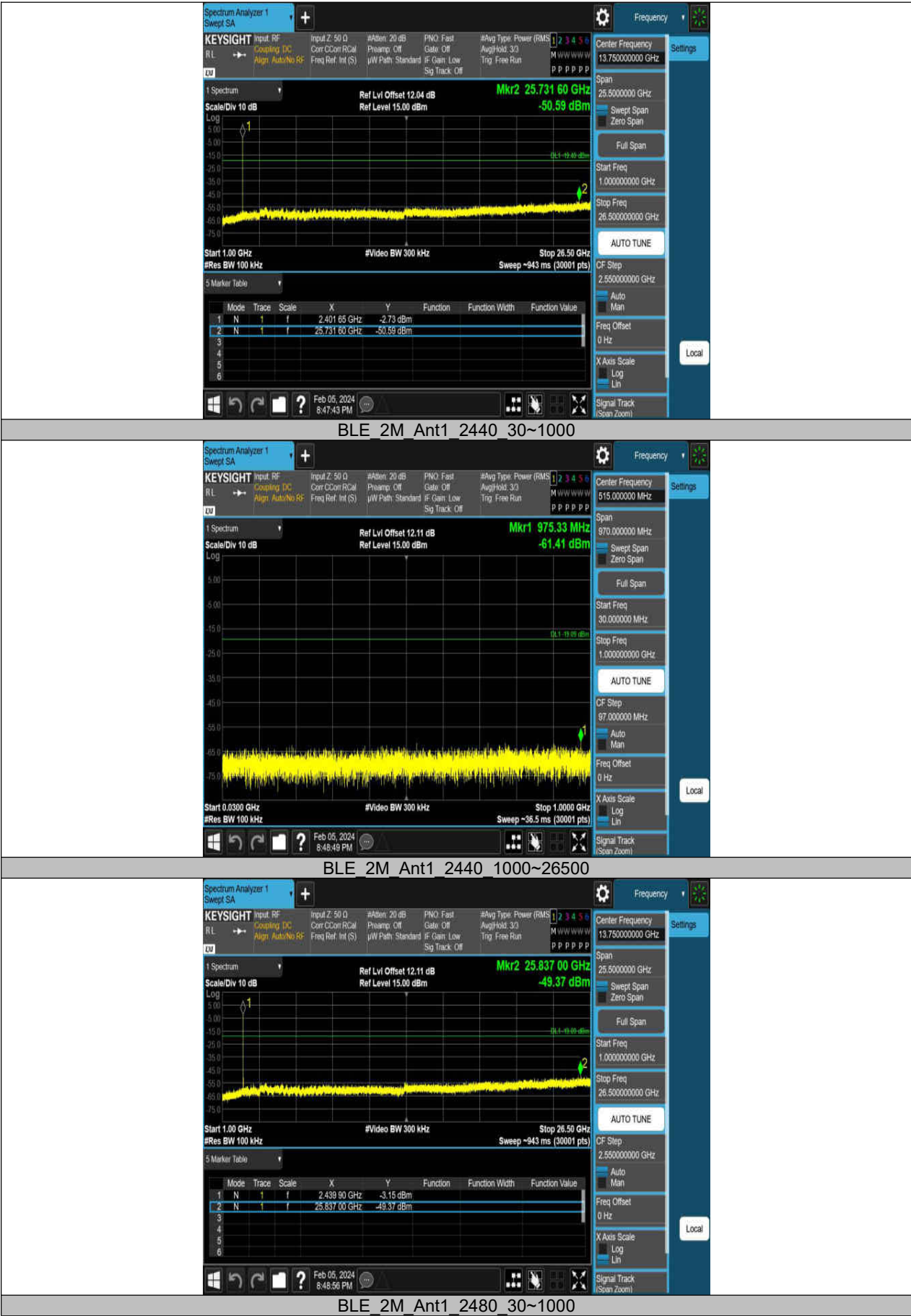


Spurious Emissions:







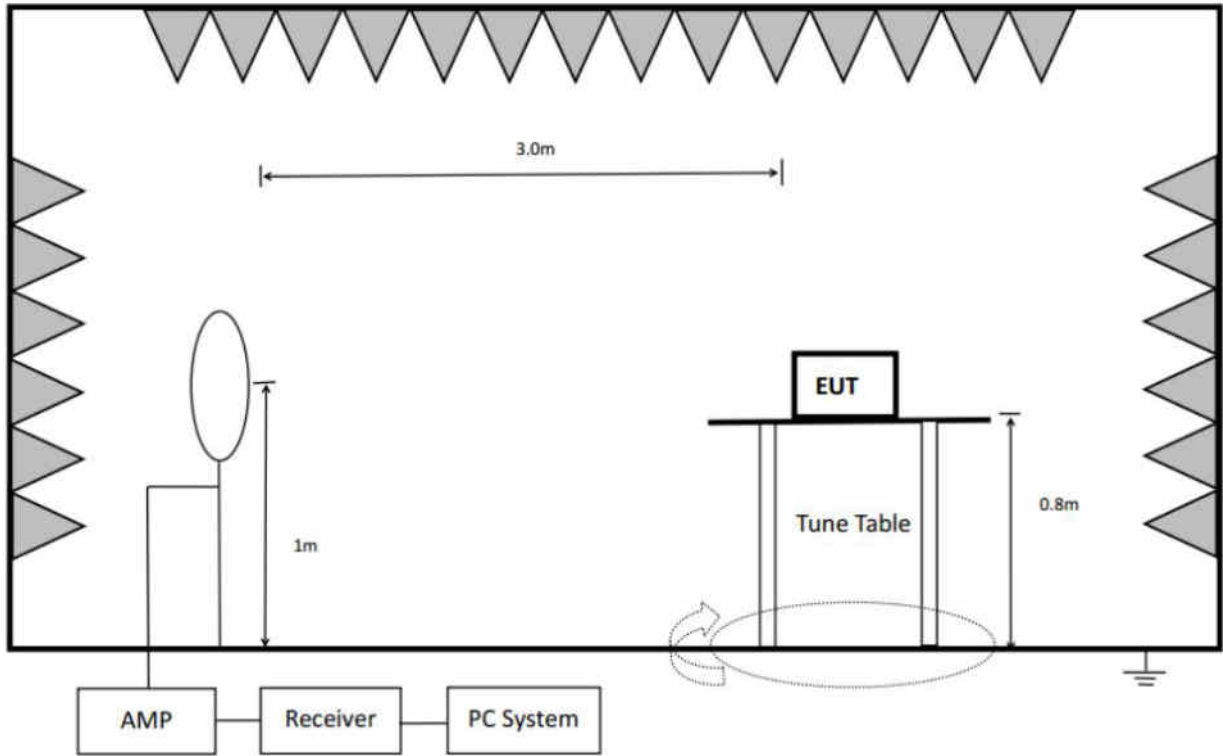




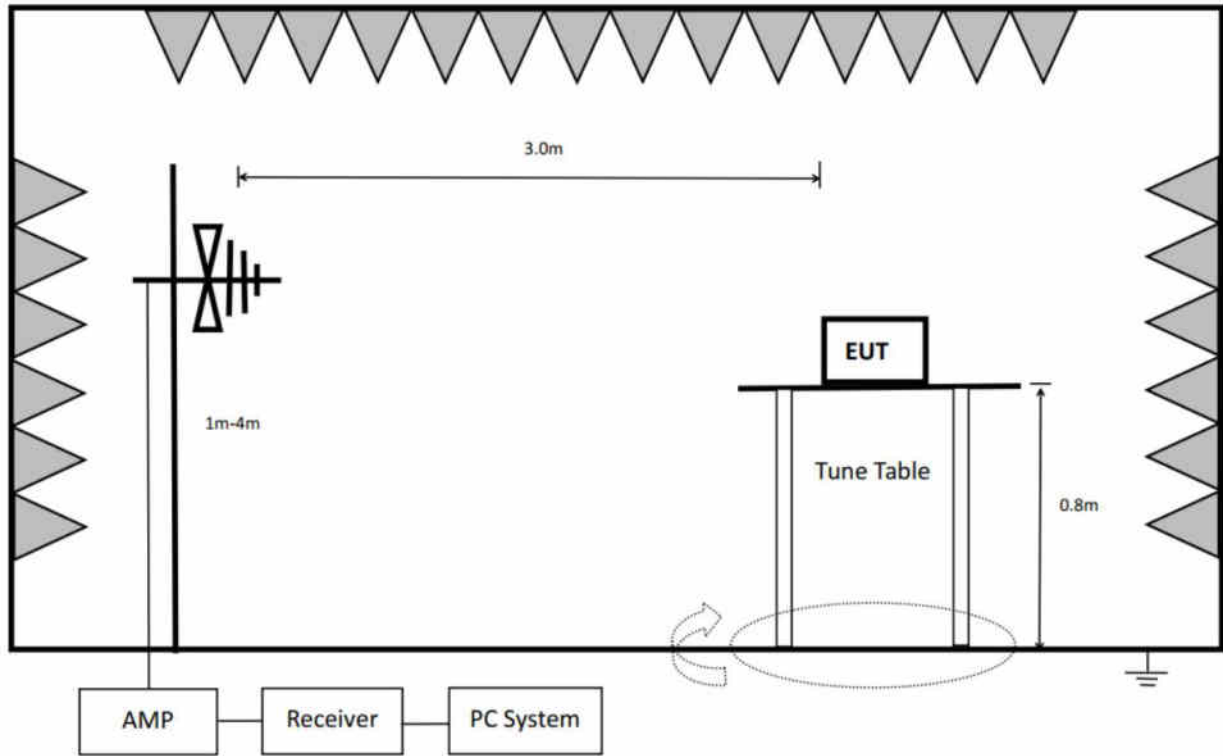
13. Radiated Emission

13.1. Block diagram of test setup

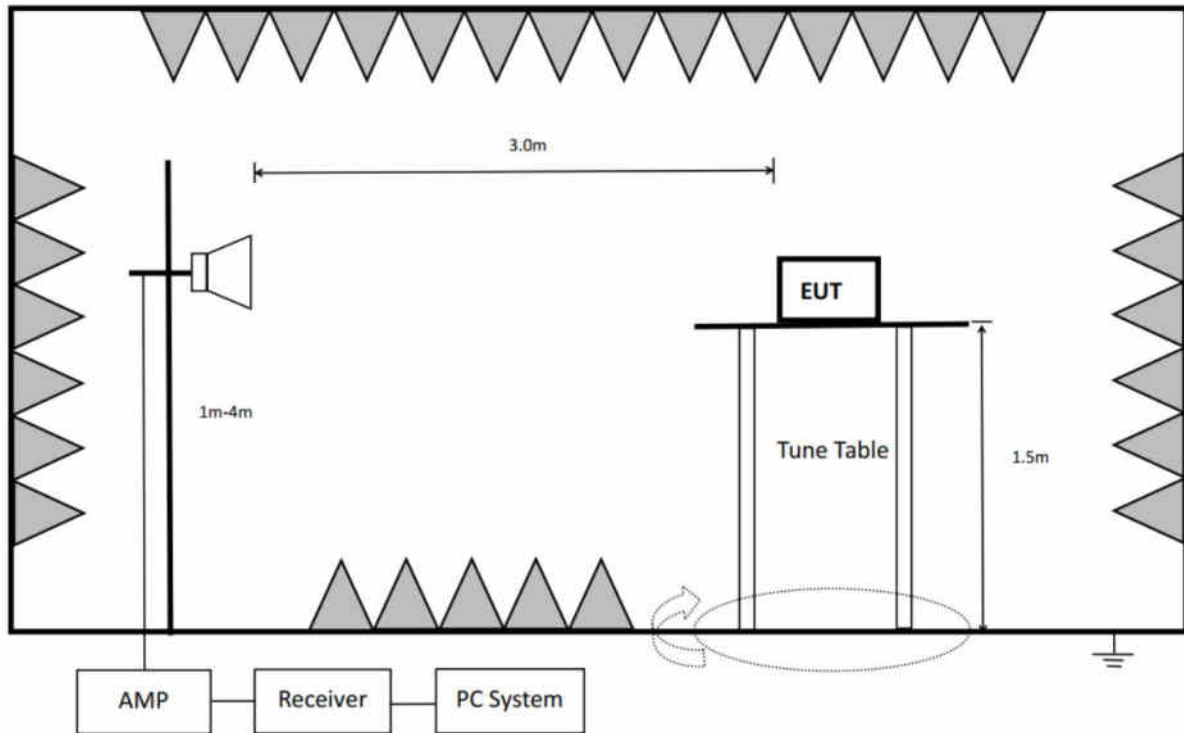
In 3 m Anechoic Chamber, test setup diagram for 9 kHz - 30 MHz:



In 3 m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3 m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test an appropriate high pass filter was inserted in the input port of AMP.

13.2. Limit

(1) FCC 15.205 Restricted frequency band

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
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&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	2690-2900	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	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6

(2) FCC 15.209 Limit.

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note: (1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

About Restricted bands of operation please refer to FCC § 15.205(a),

13.3. Test Procedure

Below 30 MHz:

The setting of the spectrum Analyzer

RBW	300 Hz (From 9 kHz to 0.15 MHz)/ 10 kHz (From 0.15 MHz to 30 MHz)
VBW	1 kHz (From 9 kHz to 0.15 MHz)/ 30 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013

2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT

measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

Below 1 GHz and above 30 MHz:

The setting of the spectrum Analyzer

RBW	100 kHz
VBW	300 kHz
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz:

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 1.5m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for AVG measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.

7. Restriction band: Investigated frequency range from 2310 MHz to 2410 MHz and 2470MHz to 2500 MHz.

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT does not support simultaneous transmission.

Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

13.4. Results

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz, so the final test was performed with frequency range from 30 MHz to 26 GHz and recorded in below.

Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in BLE 1MHz mode.

Note3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

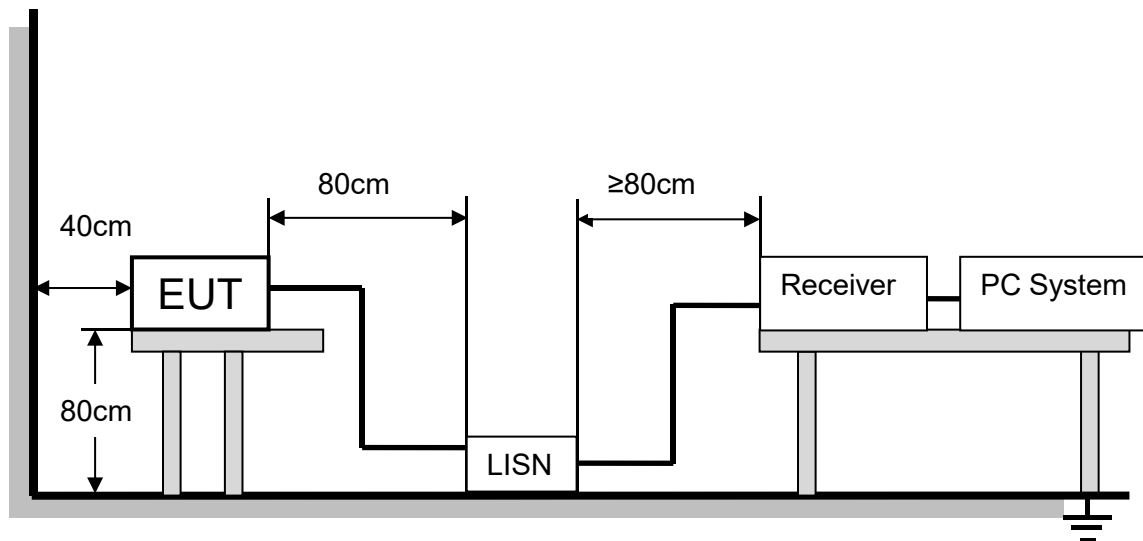
13.5. Original test data

Below 1 GHz and above 30 MHz test data Refer to appendix A

Above 1 GHz test data Refer to appendix B

14. AC Power Line Conducted Emissions

14.1. Block diagram of test setup



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

14.2. Limits

Please refer to CFR 47 FCC § 15.207 (a).

Frequency (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

14.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the 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, Neutral and Line, 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.

The bandwidth of test receiver is set at 9 kHz.

14.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

14.5. Original test data

AC Power Line Conducted Emission Test Data Refer to appendix C

15. Antenna Requirements

15.1. Limits

Please refer to FCC § 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC § 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

15.2. Result

The antenna used for this product is FPC antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 5.16 dBi

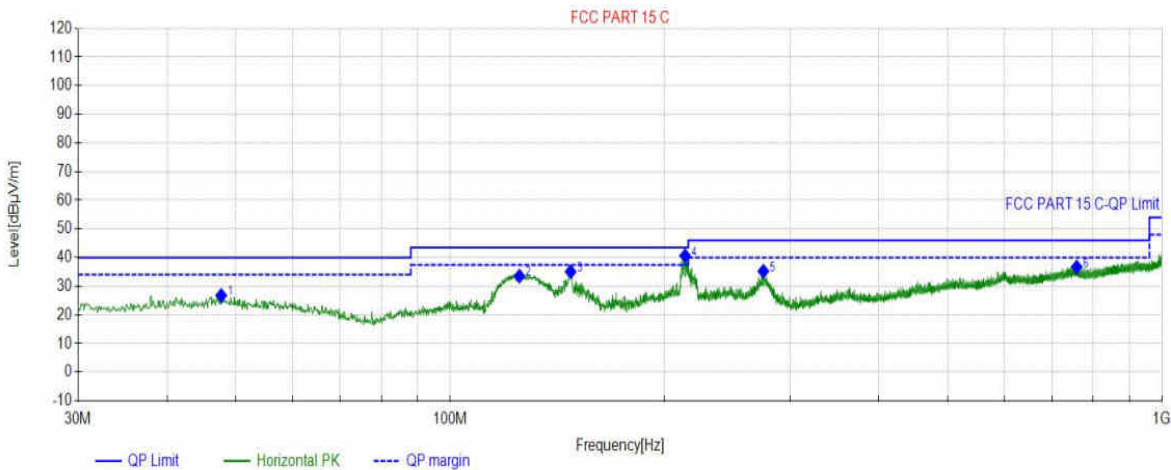
APPENDIX A – Radiated Emission Below 1GHz Test Data

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-28 00:19:22

Test Graph



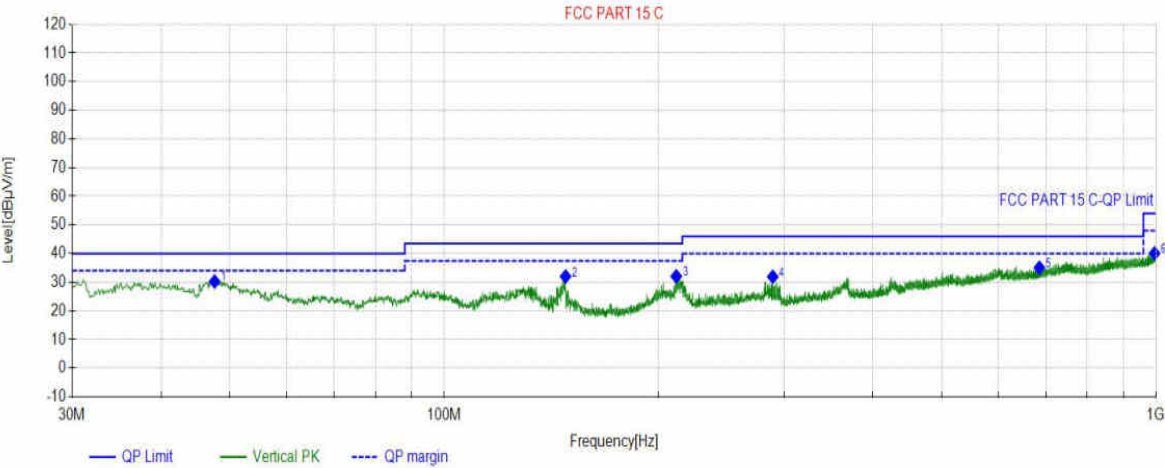
Final Data List								
NO	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	47.6558	22.27	26.80	40.00	13.20	100	333	Horizontal
2	125.0695	17.84	33.53	43.50	9.97	100	117	Horizontal
3	147.5758	17.14	35.04	43.50	8.46	100	333	Horizontal
4	213.7364	20.32	40.63	43.50	2.87	100	238	Horizontal
5	275.3375	21.49	35.26	46.00	10.74	100	238	Horizontal
6	758.9309	32.36	36.71	46.00	9.29	100	260	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-28 00:20:06

Test Graph



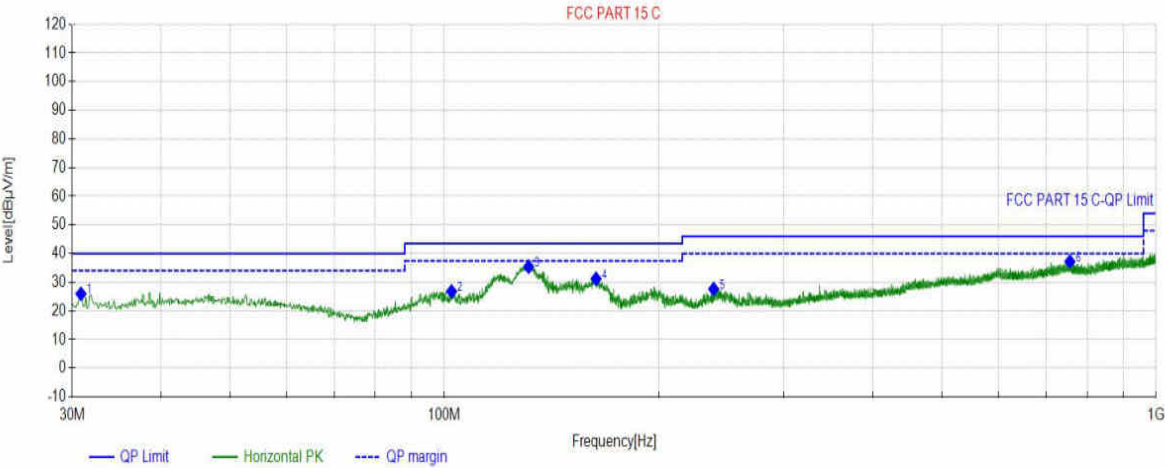
Final Data List								
NO	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	47.5588	22.27	30.26	40.00	9.74	100	51	Vertical
2	148.0608	17.15	32.02	43.50	11.48	100	27	Vertical
3	211.7962	20.27	32.06	43.50	11.44	100	178	Vertical
4	289.4039	21.58	31.92	46.00	14.08	100	201	Vertical
5	685.6886	30.56	35.08	46.00	10.92	100	79	Vertical
6	995.3435	35.27	40.07	54.00	13.93	100	27	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 47%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 22:58:55

Test Graph



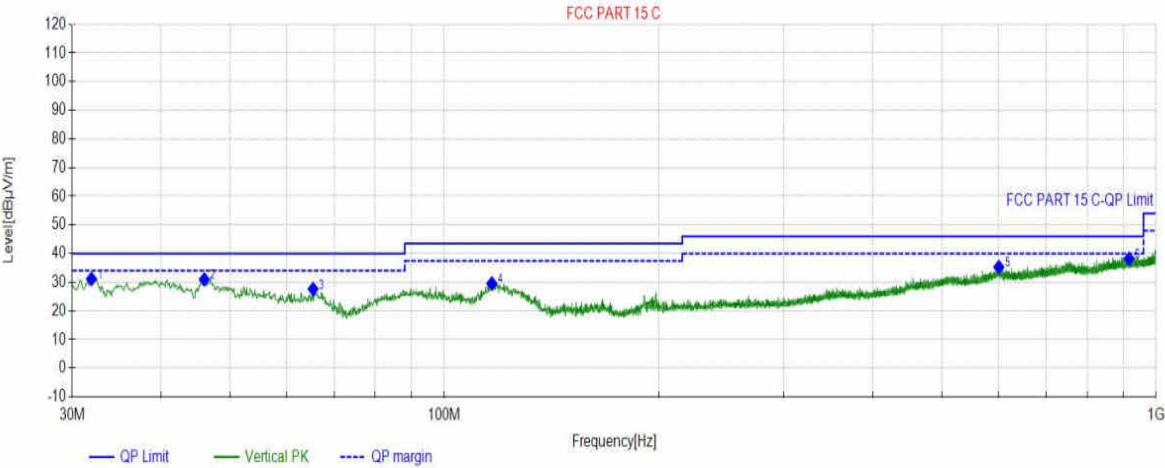
Final Data List								
NO	Freq. (MHz)	Factor (dB)	QP Value (dBμV/m)	QP Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	30.8731	18.63	25.94	40.00	14.06	100	333	Horizontal
2	102.3692	20.62	26.79	43.50	16.71	100	98	Horizontal
3	131.3751	17.24	35.39	43.50	8.11	100	112	Horizontal
4	163.3883	17.64	31.19	43.50	12.31	100	152	Horizontal
5	239.0559	21.03	27.60	46.00	18.40	100	240	Horizontal
6	756.7967	32.36	37.21	46.00	8.79	100	277	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 47%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 22:59:39

Test Graph



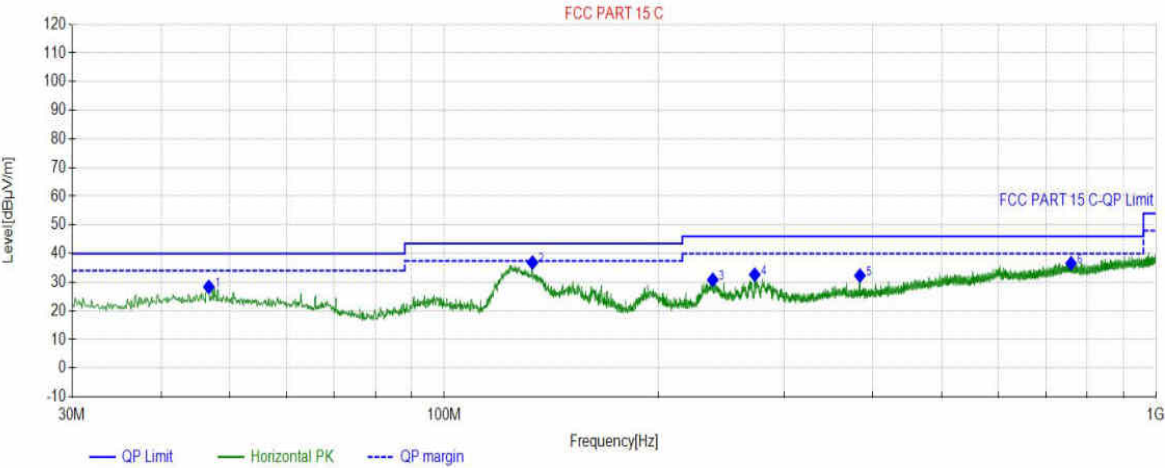
Final Data List								
NO	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	31.9402	18.75	31.13	40.00	8.87	100	360	Vertical
2	46.0066	22.20	30.98	40.00	9.02	100	358	Vertical
3	65.4085	19.30	27.63	40.00	12.37	100	209	Vertical
4	116.6297	18.96	29.55	43.50	13.95	100	68	Vertical
5	601.2901	30.11	35.29	46.00	10.71	100	246	Vertical
6	916.5717	34.38	38.19	46.00	7.81	100	121	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:49:24

Test Graph



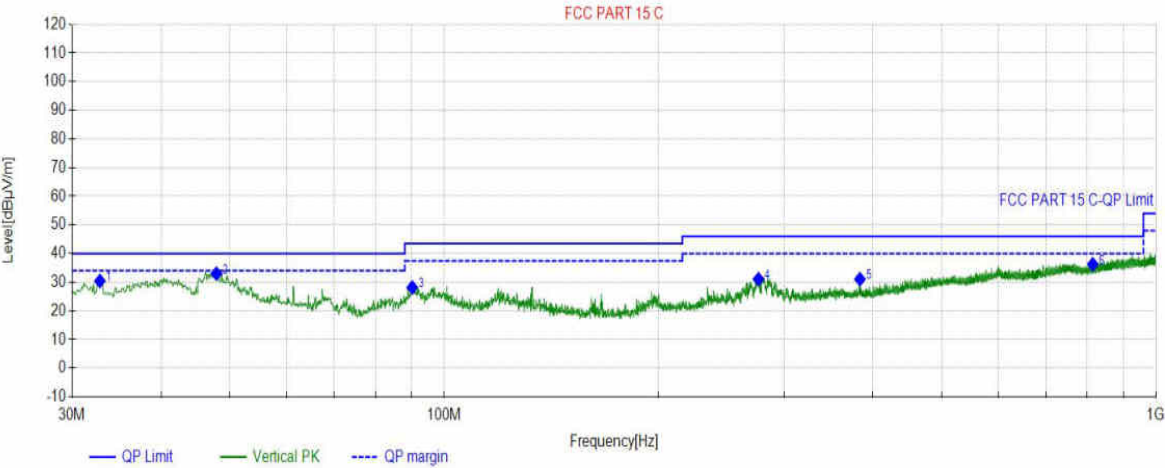
Final Data List								
NO	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	46.6857	22.23	28.37	40.00	11.63	100	333	Horizontal
2	133.0243	17.18	36.85	43.50	6.65	100	145	Horizontal
3	238.3768	21.01	30.82	46.00	15.18	100	229	Horizontal
4	273.0093	21.48	32.64	46.00	13.36	100	15	Horizontal
5	383.6974	24.70	32.31	46.00	13.69	100	25	Horizontal
6	759.9010	32.36	36.59	46.00	9.41	100	0	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:50:08

Test Graph



Final Data List								
NO	Freq. (MHz)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity
1	32.8133	18.86	30.42	40.00	9.58	100	64	Vertical
2	47.8498	22.28	32.99	40.00	7.01	100	345	Vertical
3	90.1460	18.44	28.17	43.50	15.33	100	194	Vertical
4	276.3076	21.50	31.07	46.00	14.93	100	91	Vertical
5	383.6974	24.70	31.06	46.00	14.94	100	293	Vertical
6	815.0995	32.65	36.27	46.00	9.73	100	331	Vertical

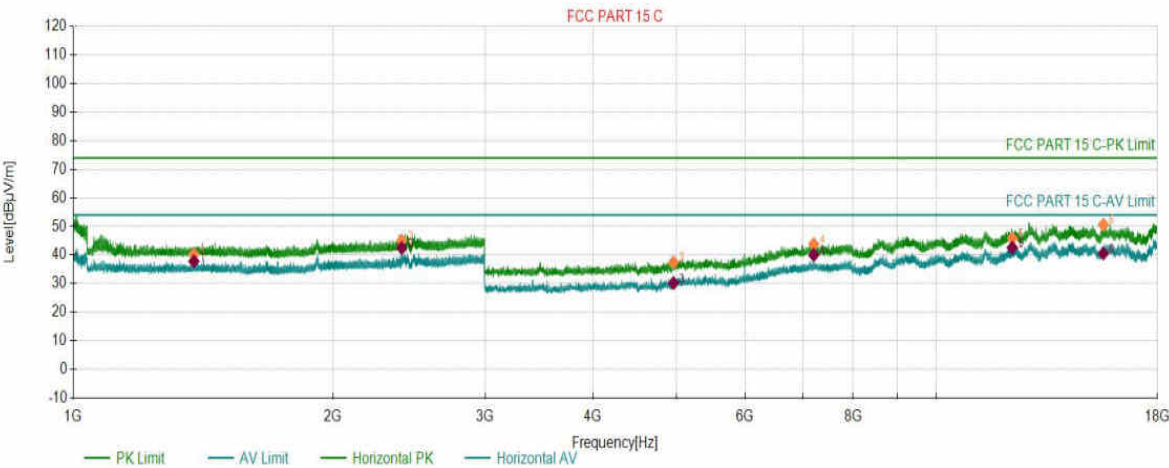
APPENDIX B – Radiated Emission Above 1GHz Test Data

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:19:17

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1379.9190	3.14	40.24	74.00	33.76	150	310	Horizontal
2	2401.8701	7.13	45.04	74.00	28.96	150	196	Horizontal
3	4957.5979	-8.91	37.50	74.00	36.50	150	263	Horizontal
4	7206.2103	-1.52	43.84	74.00	30.16	150	148	Horizontal
5	12235.9618	6.85	45.83	74.00	28.17	150	129	Horizontal
6	15599.1300	11.90	50.61	74.00	23.39	150	7	Horizontal

AV Final Data List

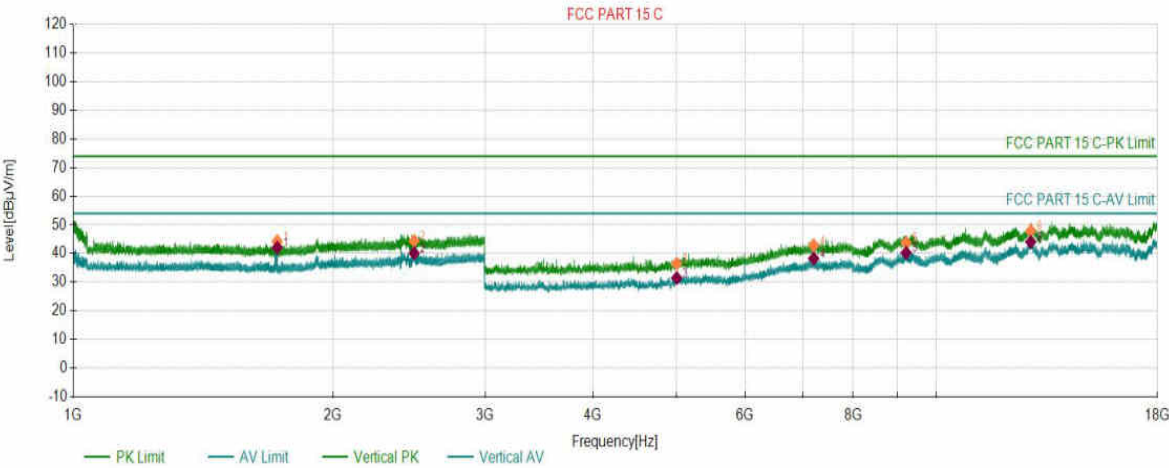
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1379.9190	3.14	37.81	54.00	16.19	150	310	Horizontal
2	2401.8701	7.13	42.47	54.00	11.53	150	196	Horizontal
3	4957.5979	-8.91	30.21	54.00	23.79	150	263	Horizontal
4	7206.2103	-1.52	40.01	54.00	13.99	150	148	Horizontal
5	12235.9618	6.85	42.57	54.00	11.43	150	129	Horizontal
6	15599.1300	11.90	40.57	54.00	13.43	150	7	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:20:56

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1723.3362	3.42	44.28	74.00	29.72	150	280	Vertical
2	2482.4741	7.61	44.44	74.00	29.56	150	338	Vertical
3	5000.3500	-8.60	36.48	74.00	37.52	150	233	Vertical
4	7205.4603	-1.53	42.91	74.00	31.09	150	118	Vertical
5	9220.0610	3.45	43.71	74.00	30.29	150	127	Vertical
6	12854.7427	9.41	47.94	74.00	26.06	150	233	Vertical

AV Final Data List

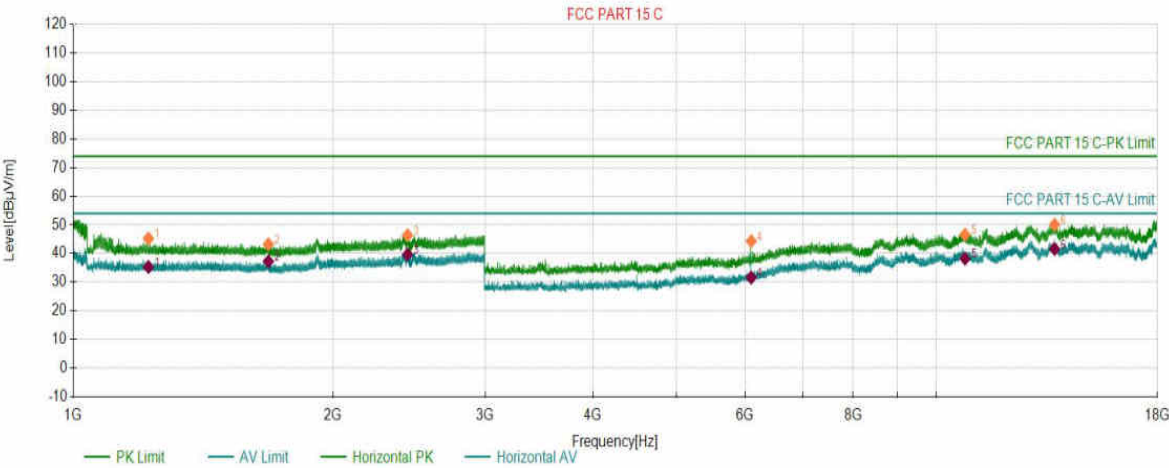
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1723.3362	3.42	42.05	54.00	11.95	150	280	Vertical
2	2482.4741	7.61	40.13	54.00	13.87	150	338	Vertical
3	5000.3500	-8.60	31.47	54.00	22.53	150	233	Vertical
4	7205.4603	-1.53	38.28	54.00	15.72	150	118	Vertical
5	9220.0610	3.45	40.27	54.00	13.73	150	127	Vertical
6	12854.7427	9.41	44.06	54.00	9.94	150	233	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:27:36

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1222.4111	2.36	45.23	74.00	28.77	150	175	Horizontal
2	1682.8341	3.44	43.22	74.00	30.78	150	214	Horizontal
3	2439.4720	7.35	46.38	74.00	27.62	150	118	Horizontal
4	6099.9050	-5.91	44.35	74.00	29.65	150	148	Horizontal
5	10786.8893	5.57	46.60	74.00	27.40	150	263	Horizontal
6	13697.7849	10.96	50.09	74.00	23.91	150	13	Horizontal

AV Final Data List

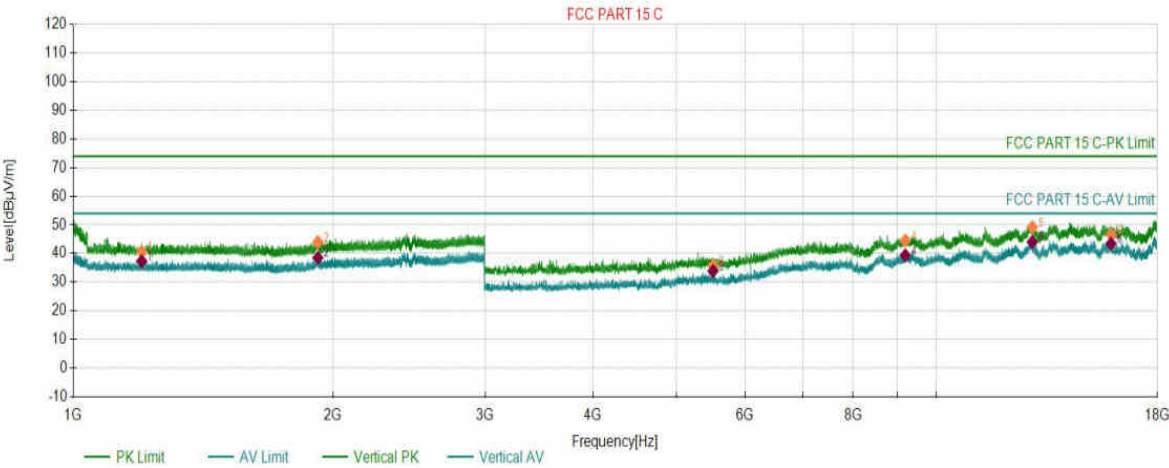
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1222.4111	2.36	35.34	54.00	18.66	150	175	Horizontal
2	1682.8341	3.44	37.26	54.00	16.74	150	214	Horizontal
3	2439.4720	7.35	39.67	54.00	14.33	150	118	Horizontal
4	6099.9050	-5.91	31.61	54.00	22.39	150	148	Horizontal
5	10786.8893	5.57	38.23	54.00	15.77	150	263	Horizontal
6	13697.7849	10.96	41.58	54.00	12.42	150	13	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:29:16

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1200.5100	2.28	40.61	74.00	33.39	150	242	Vertical
2	1920.5460	4.54	43.98	74.00	30.02	150	154	Vertical
3	5509.6255	-7.74	35.82	74.00	38.18	150	178	Vertical
4	9199.0600	3.51	44.51	74.00	29.49	150	120	Vertical
5	12907.9954	9.36	49.20	74.00	24.80	150	324	Vertical
6	15919.3960	12.08	46.63	74.00	27.37	150	359	Vertical

AV Final Data List

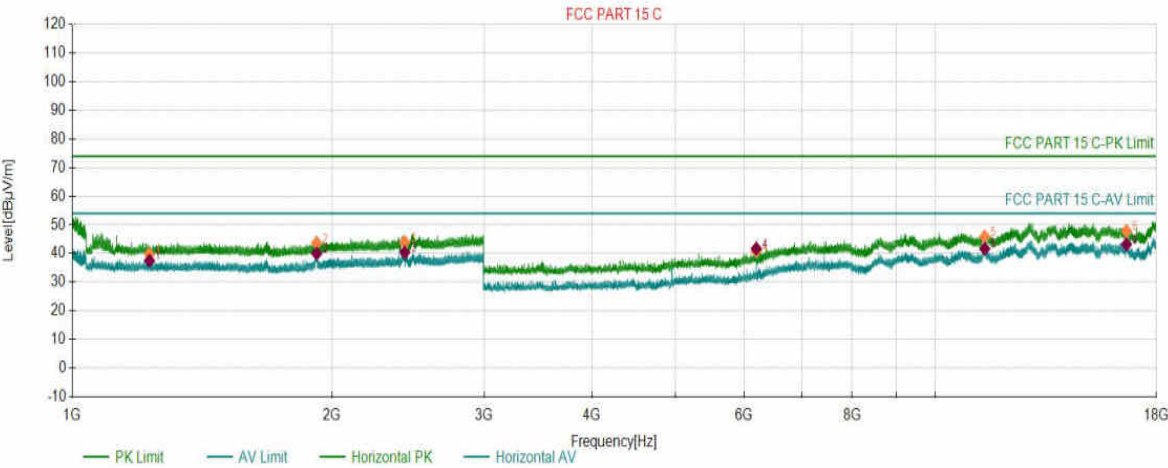
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1200.5100	2.28	37.34	54.00	16.66	150	242	Vertical
2	1920.5460	4.54	38.52	54.00	15.48	150	154	Vertical
3	5509.6255	-7.74	33.91	54.00	20.09	150	178	Vertical
4	9199.0600	3.51	39.34	54.00	14.66	150	120	Vertical
5	12907.9954	9.36	44.04	54.00	9.96	150	324	Vertical
6	15919.3960	12.08	43.47	54.00	10.53	150	359	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:33:22

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1229.0115	2.39	39.83	74.00	34.17	150	14	Horizontal
2	1919.7460	4.53	43.68	74.00	30.32	150	234	Horizontal
3	2427.7714	7.28	43.95	74.00	30.05	150	354	Horizontal
4	6199.6600	-5.47	40.86	74.00	33.14	150	168	Horizontal
5	11401.1701	6.46	45.86	74.00	28.14	150	348	Horizontal
6	16636.4318	11.20	47.87	74.00	26.13	150	147	Horizontal

AV Final Data List

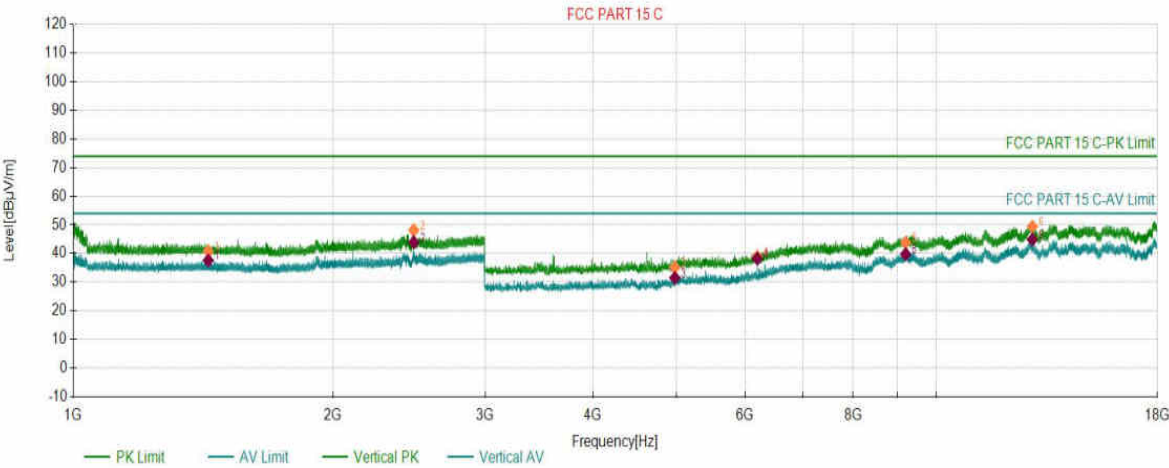
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1229.0115	2.39	37.50	54.00	16.50	150	14	Horizontal
2	1919.7460	4.53	39.99	54.00	14.01	150	234	Horizontal
3	2427.7714	7.28	40.40	54.00	13.60	150	354	Horizontal
4	6199.6600	-5.47	41.71	54.00	12.29	150	168	Horizontal
5	11401.1701	6.46	41.68	54.00	12.32	150	348	Horizontal
6	16636.4318	11.20	43.21	54.00	10.79	150	147	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:35:02

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1433.8217	3.30	40.81	74.00	33.19	150	126	Vertical
2	2480.2740	7.60	48.12	74.00	25.88	150	223	Vertical
3	4975.5988	-8.78	35.15	74.00	38.85	150	156	Vertical
4	6199.6600	-5.47	38.99	74.00	35.01	150	166	Vertical
5	9209.5605	3.49	43.83	74.00	30.17	150	358	Vertical
6	12910.2455	9.36	49.41	74.00	24.59	150	341	Vertical

AV Final Data List

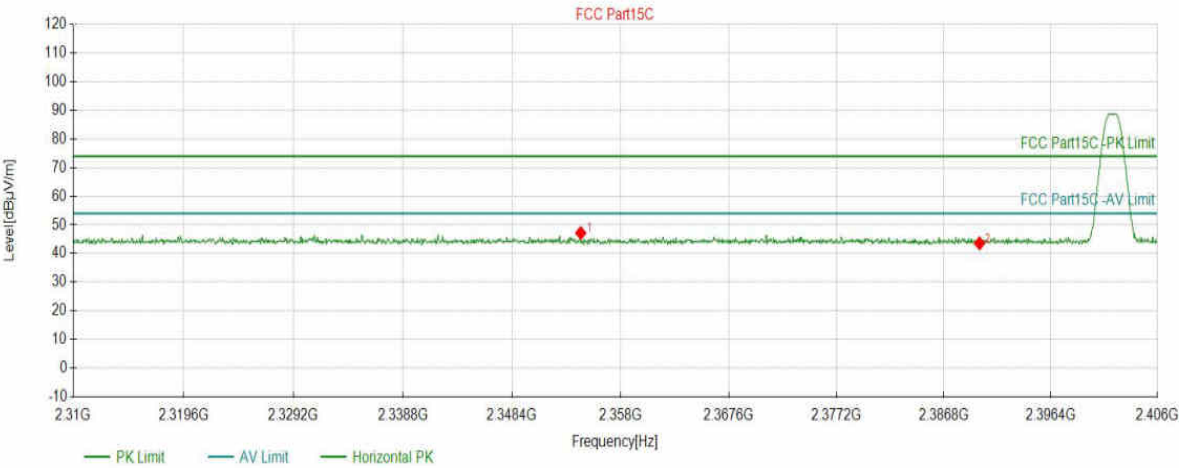
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1433.8217	3.30	37.57	54.00	16.43	150	126	Vertical
2	2480.2740	7.60	43.93	54.00	10.07	150	223	Vertical
3	4975.5988	-8.78	31.50	54.00	22.50	150	156	Vertical
4	6199.6600	-5.47	38.23	54.00	15.77	150	166	Vertical
5	9209.5605	3.49	39.76	54.00	14.24	150	358	Vertical
6	12910.2455	9.36	44.87	54.00	9.13	150	341	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:24:03

Test Graph



Suspected Data List

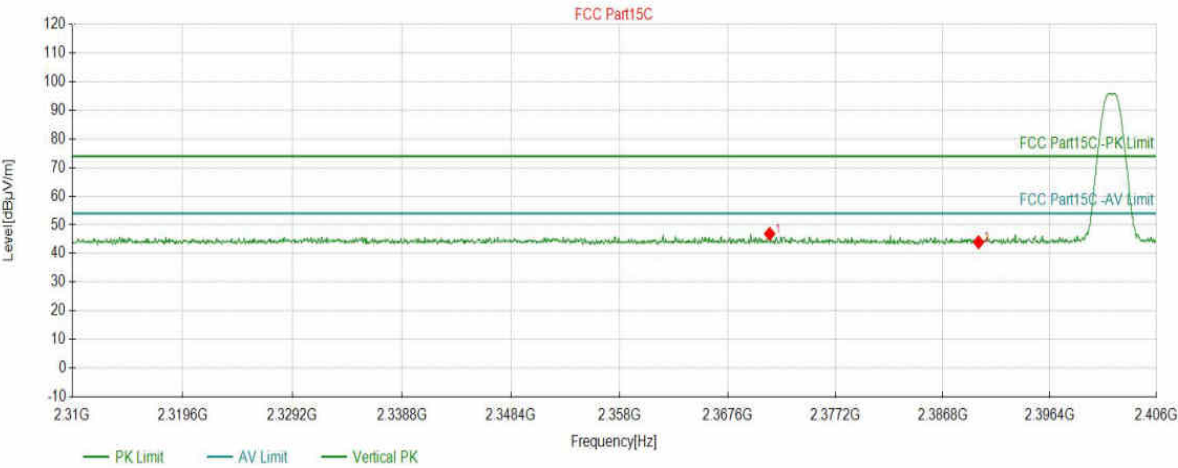
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2354.4702	47.17	5.69	74.00	26.83	150	2	PK	Horizont
2	2390.0080	43.58	5.65	74.00	30.42	150	79	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:24:51

Test Graph



Suspected Data List

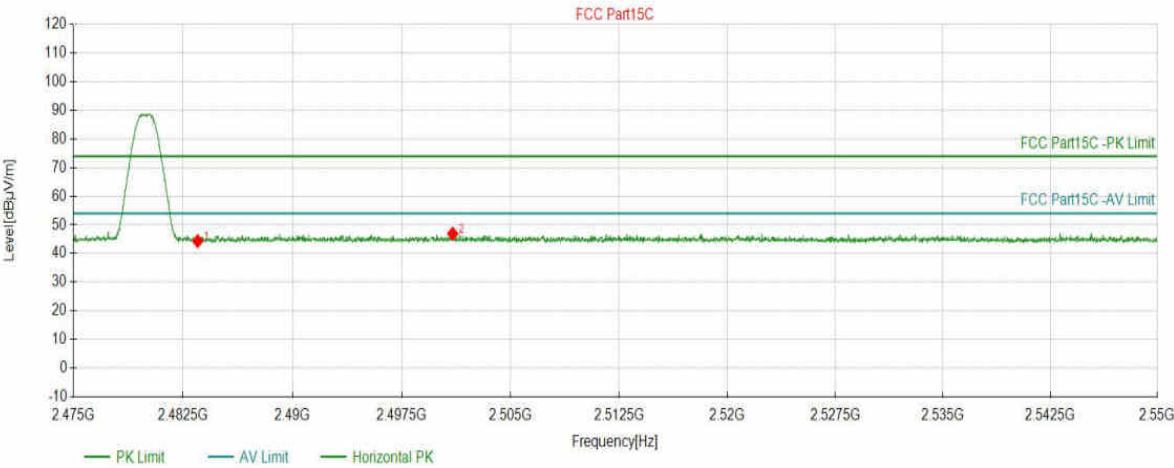
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2371.3267	46.89	5.67	74.00	27.11	150	70	PK	Vertical
2	2390.0080	43.96	5.65	74.00	30.04	150	179	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:37:32

Test Graph



Suspected Data List

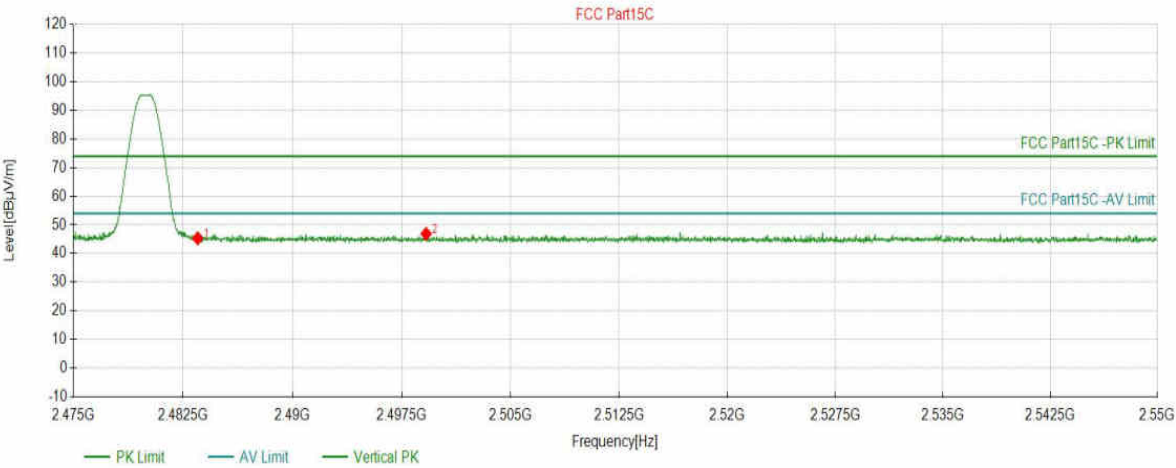
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	44.36	6.24	74.00	29.64	150	204	PK	Horizont
2	2501.0087	46.95	6.36	74.00	27.05	150	252	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.1℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 22:38:32

Test Graph



Suspected Data List

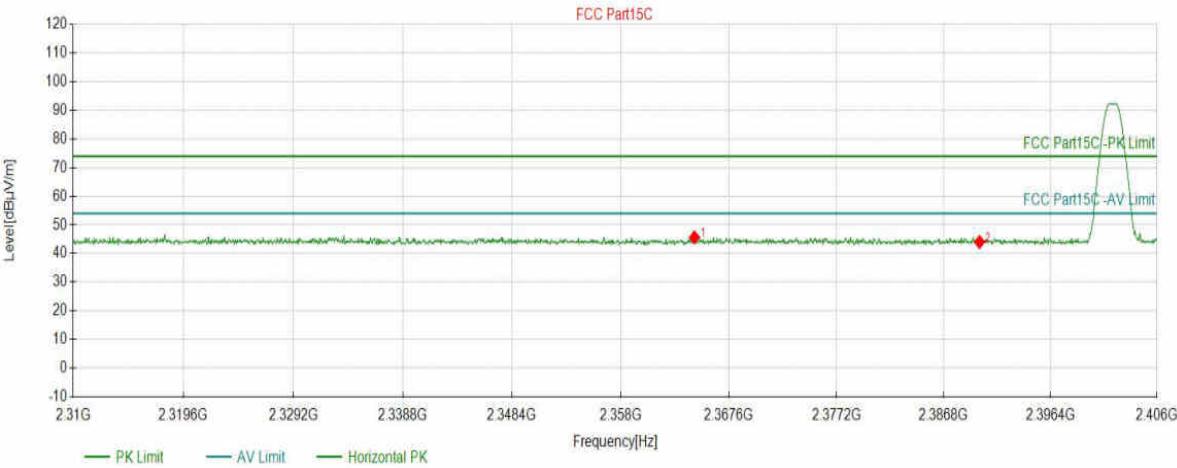
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	45.30	6.24	74.00	28.70	150	54	PK	Vertical
2	2499.1831	46.88	6.35	74.00	27.12	150	8	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_2402_2M	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 21:17:33

Test Graph



Suspected Data List

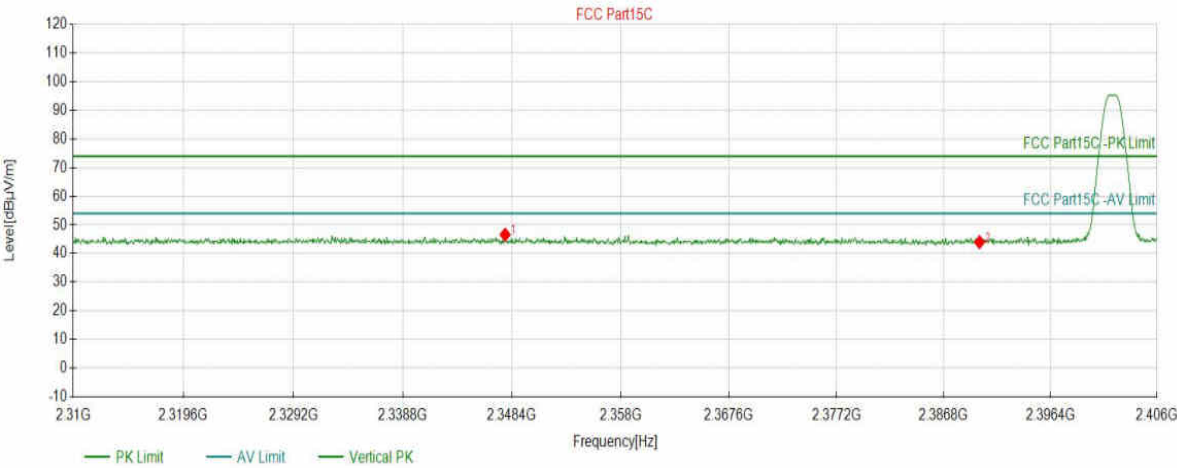
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2364.5553	45.63	5.68	74.00	28.37	150	3	PK	Horizont
2	2390.0080	44.02	5.65	74.00	29.98	150	19	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_2402_2M	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 21:18:23

Test Graph



Suspected Data List

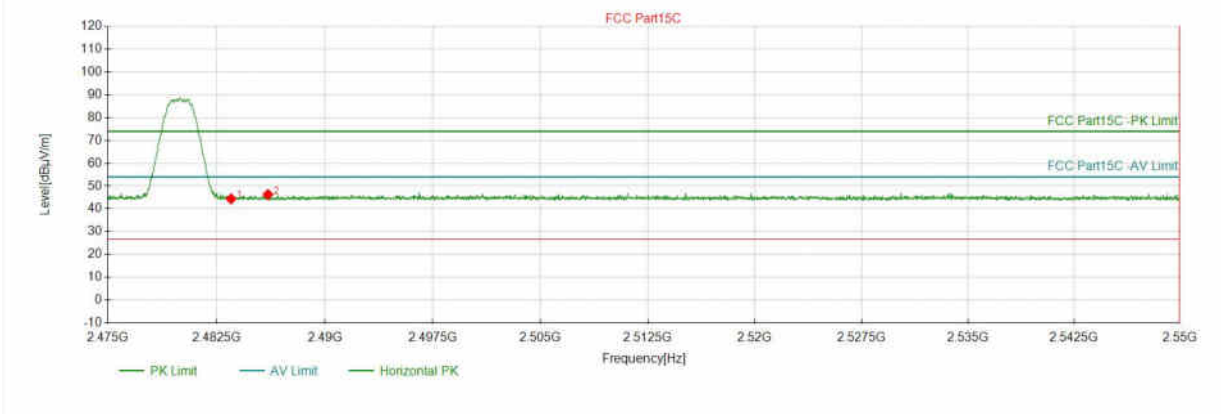
NO.	Freq. (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2347.7949	46.58	5.69	74.00	27.42	150	146	PK	Vertical
2	2390.0080	43.99	5.65	74.00	30.01	150	27	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_2480_2M	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 21:23:15

Test Graph



Suspected Data List

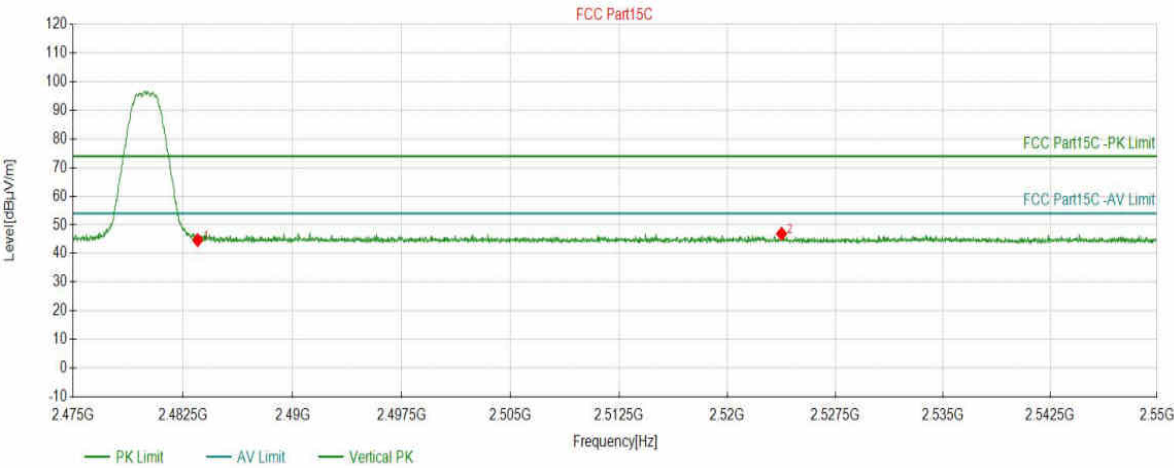
NO.	Freq. (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	44.39	6.24	74.00	29.61	150	5	PK	Vertical
2	2523.7663	46.28	6.26	74.00	27.72	150	203	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP24	SN:	
Mode:	BLE_2480_2M	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 21:24:08

Test Graph



Suspected Data List

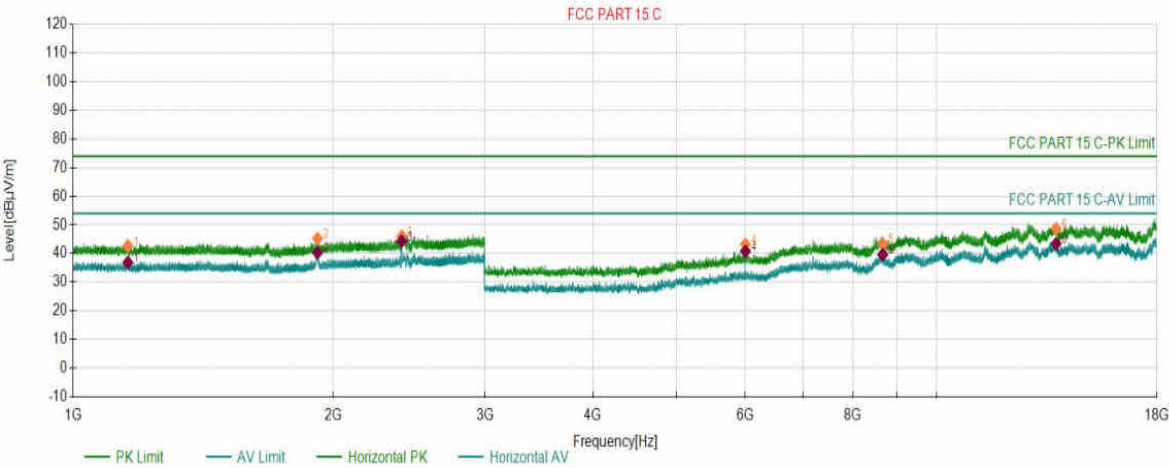
NO.	Freq. (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	44.67	6.24	74.00	29.33	150	232	PK	Vertical
2	2523.7663	46.89	6.42	74.00	27.11	150	103	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:14:41

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1157.1079	2.04	42.62	74.00	31.38	150	32	Horizontal
2	1918.7459	4.52	45.25	74.00	28.75	150	235	Horizontal
3	2401.9701	7.13	46.04	74.00	27.96	150	206	Horizontal
4	6006.1503	-5.86	43.22	74.00	30.78	150	161	Horizontal
5	8662.0331	1.96	43.42	74.00	30.58	150	84	Horizontal
6	13755.5378	10.29	48.65	74.00	25.35	150	250	Horizontal

AV Final Data List

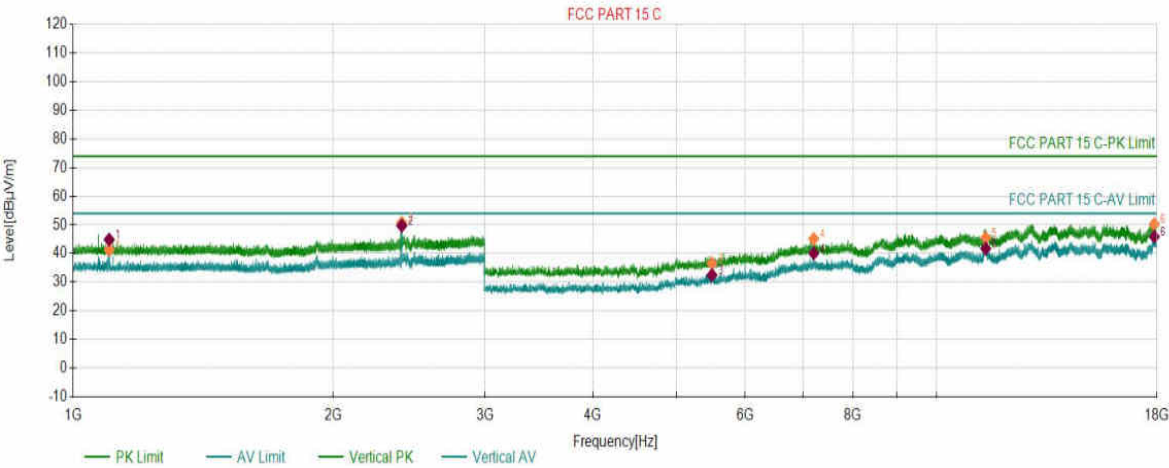
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1157.1079	2.04	36.89	54.00	17.11	150	32	Horizontal
2	1918.7459	4.52	40.33	54.00	13.67	150	235	Horizontal
3	2401.9701	7.13	44.34	54.00	9.66	150	206	Horizontal
4	6006.1503	-5.86	40.78	54.00	13.22	150	161	Horizontal
5	8662.0331	1.96	39.65	54.00	14.35	150	84	Horizontal
6	13755.5378	10.29	43.46	54.00	10.54	150	250	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:16:13

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1100.9050	1.73	41.31	74.00	32.69	150	360	Vertical
2	2402.1701	7.13	50.74	74.00	23.26	150	297	Vertical
3	5493.1247	-7.77	36.50	74.00	37.50	150	20	Vertical
4	7205.4603	-1.53	45.14	74.00	28.86	150	133	Vertical
5	11401.1701	6.46	45.49	74.00	28.51	150	125	Vertical
6	17869.4935	14.33	50.27	74.00	23.73	150	329	Vertical

AV Final Data List

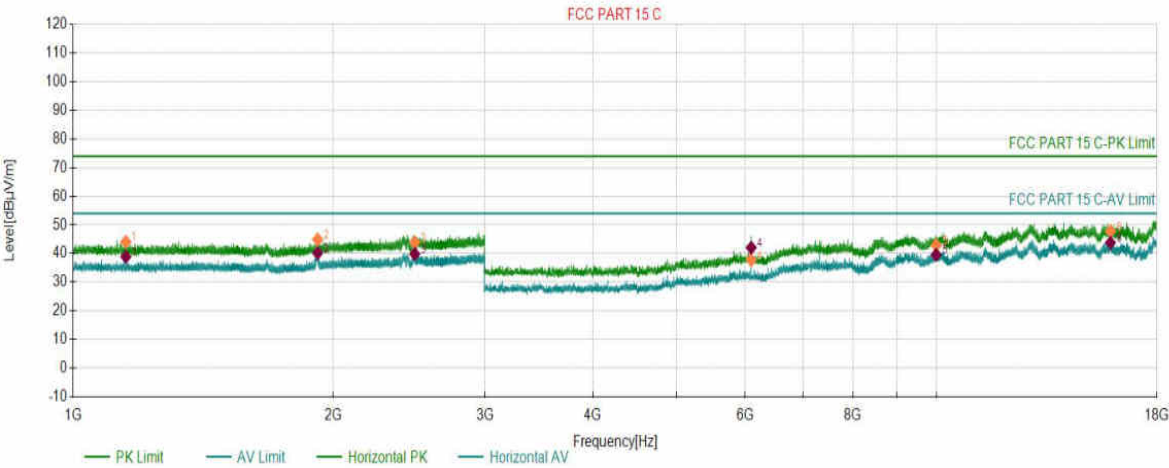
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1100.9050	1.73	44.86	54.00	9.14	150	360	Vertical
2	2402.1701	7.13	49.72	54.00	4.28	150	297	Vertical
3	5493.1247	-7.77	32.48	54.00	21.52	150	20	Vertical
4	7205.4603	-1.53	40.07	54.00	13.93	150	133	Vertical
5	11401.1701	6.46	41.75	54.00	12.25	150	125	Vertical
6	17869.4935	14.33	45.90	54.00	8.10	150	329	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2441	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:38:08

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1150.9075	2.01	44.09	74.00	29.91	150	159	Horizontal
2	1919.4460	4.53	44.89	74.00	29.11	150	238	Horizontal
3	2486.8743	7.64	43.89	74.00	30.11	150	346	Horizontal
4	6099.9050	-5.91	37.75	74.00	36.25	150	162	Horizontal
5	9987.3494	4.16	42.91	74.00	31.09	150	134	Horizontal
6	15896.1448	12.33	47.82	74.00	26.18	150	1	Horizontal

AV Final Data List

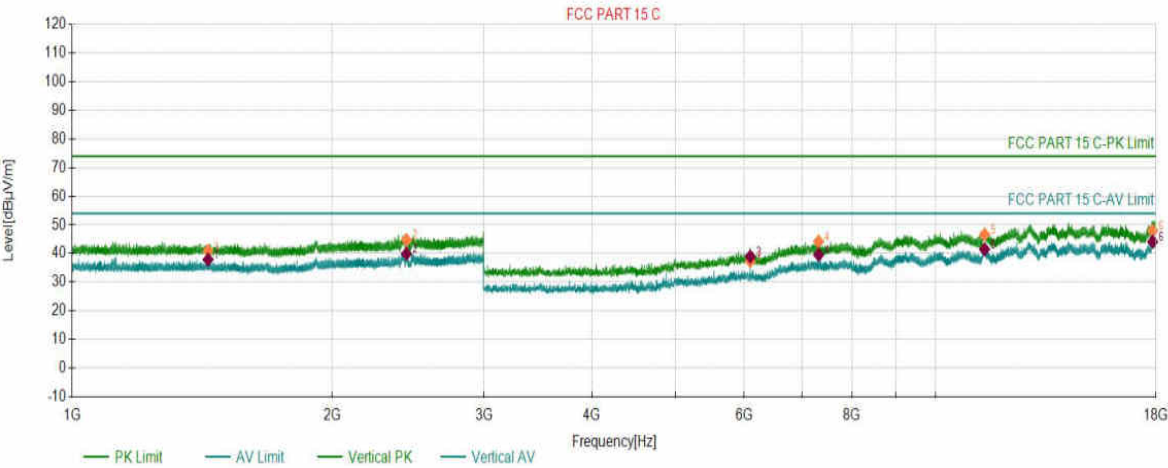
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1150.9075	2.01	38.88	54.00	15.12	150	159	Horizontal
2	1919.4460	4.53	40.14	54.00	13.86	150	238	Horizontal
3	2486.8743	7.64	39.85	54.00	14.15	150	346	Horizontal
4	6099.9050	-5.91	42.06	54.00	11.94	150	162	Horizontal
5	9987.3494	4.16	39.59	54.00	14.41	150	134	Horizontal
6	15896.1448	12.33	43.77	54.00	10.23	150	1	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2441	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:39:41

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1437.0219	3.31	40.91	74.00	33.09	150	128	Vertical
2	2439.1720	7.35	44.73	74.00	29.27	150	356	Vertical
3	6099.9050	-5.91	37.36	74.00	36.64	150	143	Vertical
4	7320.2160	-1.23	44.20	74.00	29.80	150	133	Vertical
5	11395.1698	6.39	46.60	74.00	27.40	150	346	Vertical
6	17839.4920	14.11	47.98	74.00	26.02	150	358	Vertical

AV Final Data List

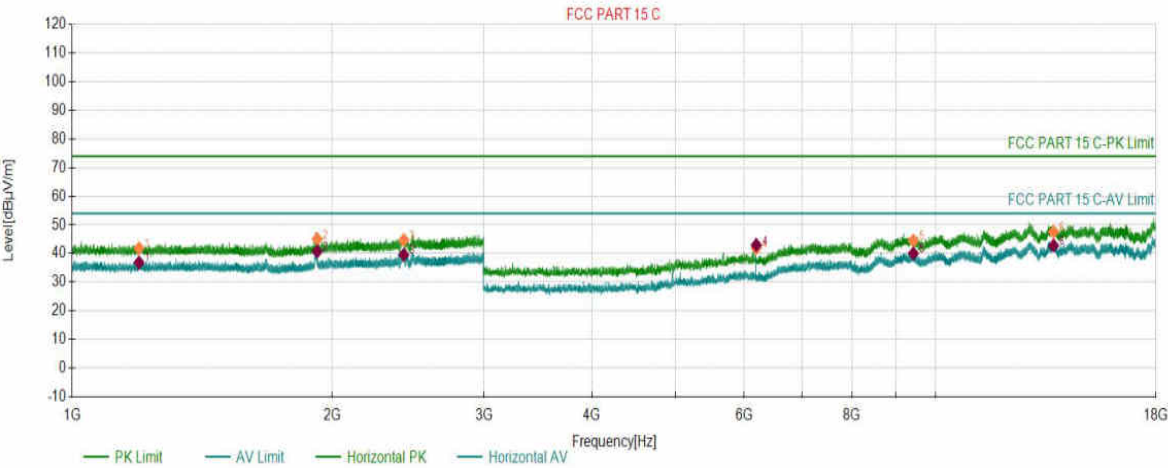
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1437.0219	3.31	37.90	54.00	16.10	150	128	Vertical
2	2439.1720	7.35	39.93	54.00	14.07	150	356	Vertical
3	6099.9050	-5.91	38.94	54.00	15.06	150	143	Vertical
4	7320.2160	-1.23	39.59	54.00	14.41	150	133	Vertical
5	11395.1698	6.39	41.51	54.00	12.49	150	346	Vertical
6	17839.4920	14.11	44.12	54.00	9.88	150	358	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:43:34

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1195.3098	2.25	41.84	74.00	32.16	150	293	Horizontal
2	1922.5461	4.55	45.07	74.00	28.93	150	235	Horizontal
3	2421.5711	7.25	44.72	74.00	29.28	150	91	Horizontal
4	6199.6600	-5.47	41.90	74.00	32.10	150	162	Horizontal
5	9423.3212	3.99	44.46	74.00	29.54	150	240	Horizontal
6	13695.5348	10.94	47.53	74.00	26.47	150	1	Horizontal

AV Final Data List

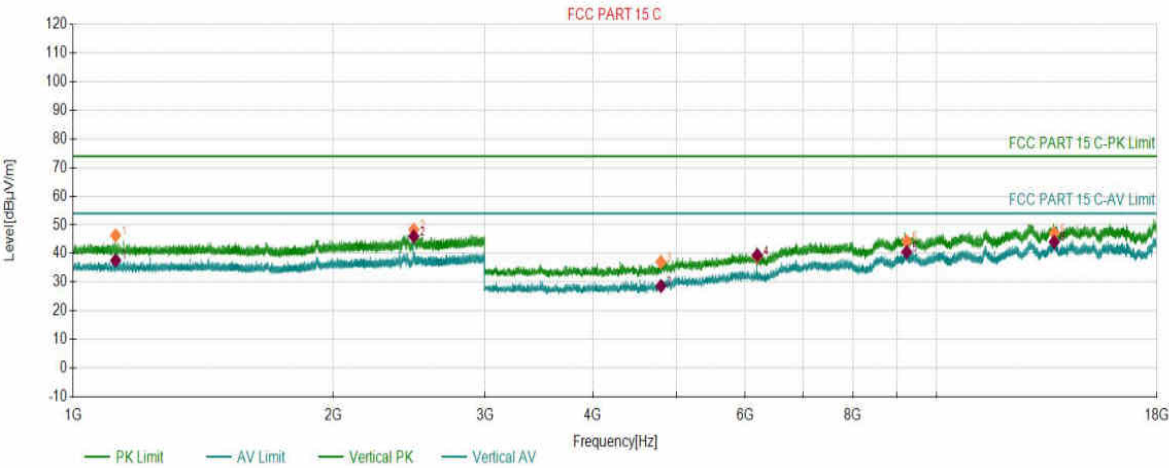
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1195.3098	2.25	36.85	54.00	17.15	150	293	Horizontal
2	1922.5461	4.55	40.73	54.00	13.27	150	235	Horizontal
3	2421.5711	7.25	39.55	54.00	14.45	150	91	Horizontal
4	6199.6600	-5.47	42.97	54.00	11.03	150	162	Horizontal
5	9423.3212	3.99	40.02	54.00	13.98	150	240	Horizontal
6	13695.5348	10.94	42.78	54.00	11.22	150	1	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:45:14

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1120.1060	1.83	46.33	74.00	27.67	150	150	Vertical
2	2480.2740	7.60	48.35	74.00	25.65	150	307	Vertical
3	4794.8397	-10.01	37.08	74.00	36.92	150	328	Vertical
4	6199.6600	-5.47	38.92	74.00	35.08	150	135	Vertical
5	9233.5617	3.41	44.22	74.00	29.78	150	358	Vertical
6	13685.0343	10.87	47.13	74.00	26.87	150	125	Vertical

AV Final Data List

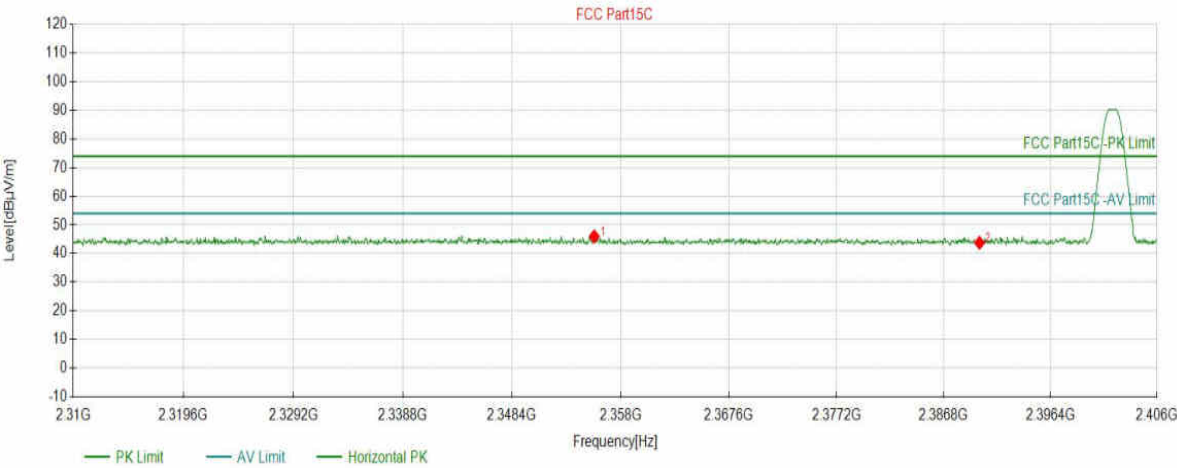
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1120.1060	1.83	37.64	54.00	16.36	150	150	Vertical
2	2480.2740	7.60	46.01	54.00	7.99	150	307	Vertical
3	4794.8397	-10.01	28.67	54.00	25.33	150	328	Vertical
4	6199.6600	-5.47	39.45	54.00	14.55	150	135	Vertical
5	9233.5617	3.41	40.53	54.00	13.47	150	358	Vertical
6	13685.0343	10.87	44.06	54.00	9.94	150	125	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:20:30

Test Graph



Suspected Data List

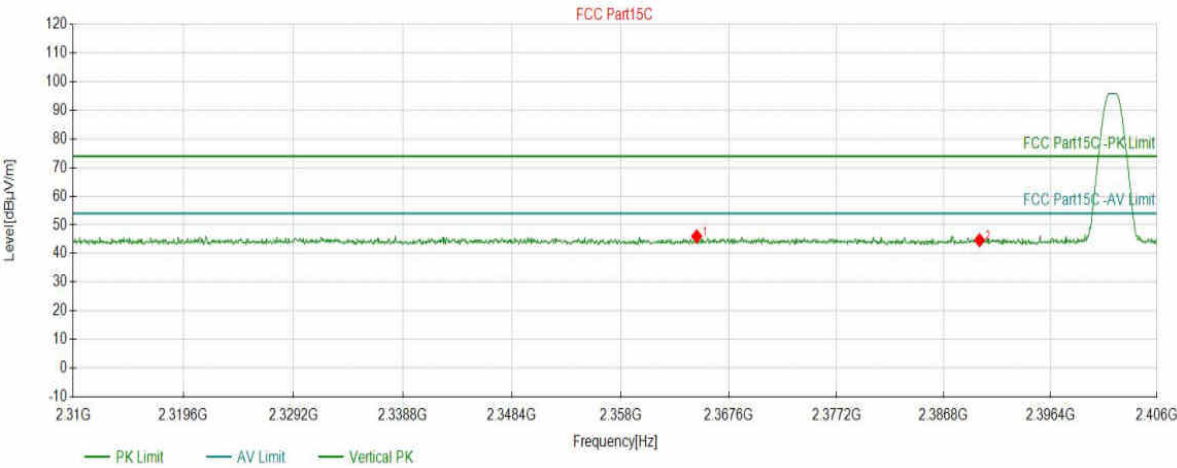
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2355.6708	45.96	5.68	74.00	28.04	150	353	PK	Horizont
2	2390.0080	43.74	5.65	74.00	30.26	150	311	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:21:18

Test Graph



Suspected Data List

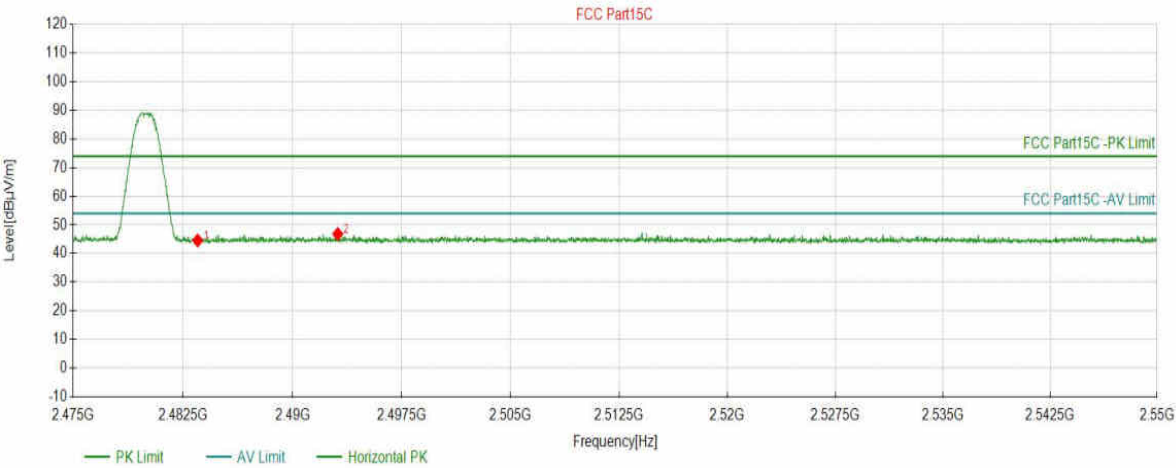
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2364.7474	46.00	5.68	74.00	28.00	150	193	PK	Vertical
2	2390.0080	44.65	5.65	74.00	29.35	150	175	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:47:46

Test Graph



Suspected Data List

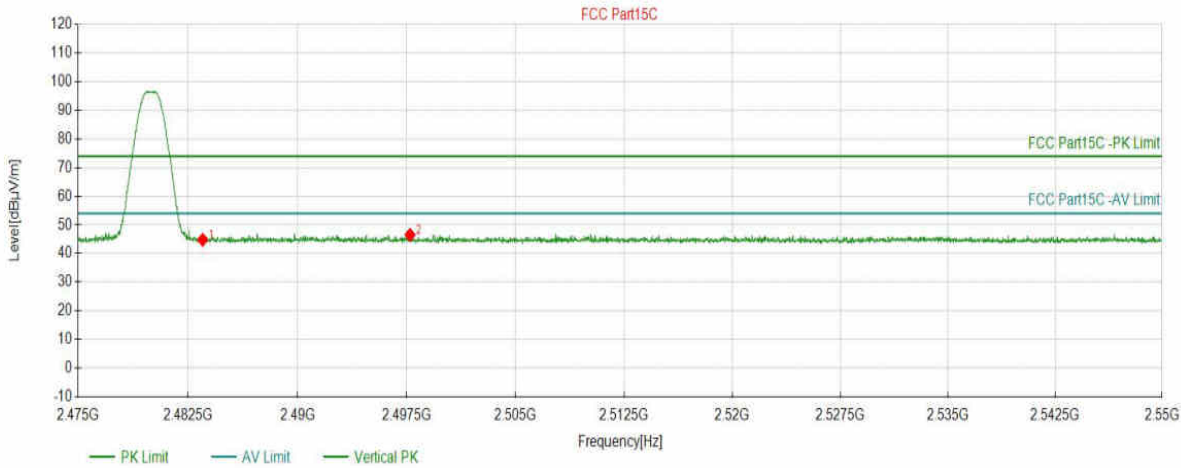
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	44.57	6.24	74.00	29.43	150	2	PK	Horizont
2	2493.1060	46.82	6.31	74.00	27.18	150	177	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.3℃ 46%
Model:	Xenon MP16	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-29 01:48:46

Test Graph



Suspected Data List

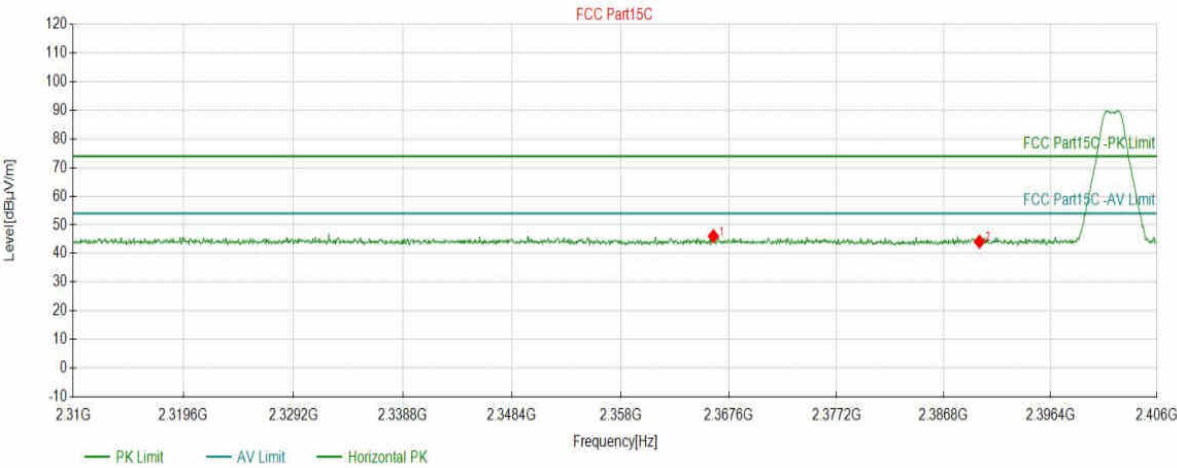
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	44.81	6.24	74.00	29.19	150	53	PK	Vertical
2	2497.7326	46.50	6.34	74.00	27.50	150	228	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP16	SN:	
Mode:	BLE_2M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 20:37:17

Test Graph



Suspected Data List

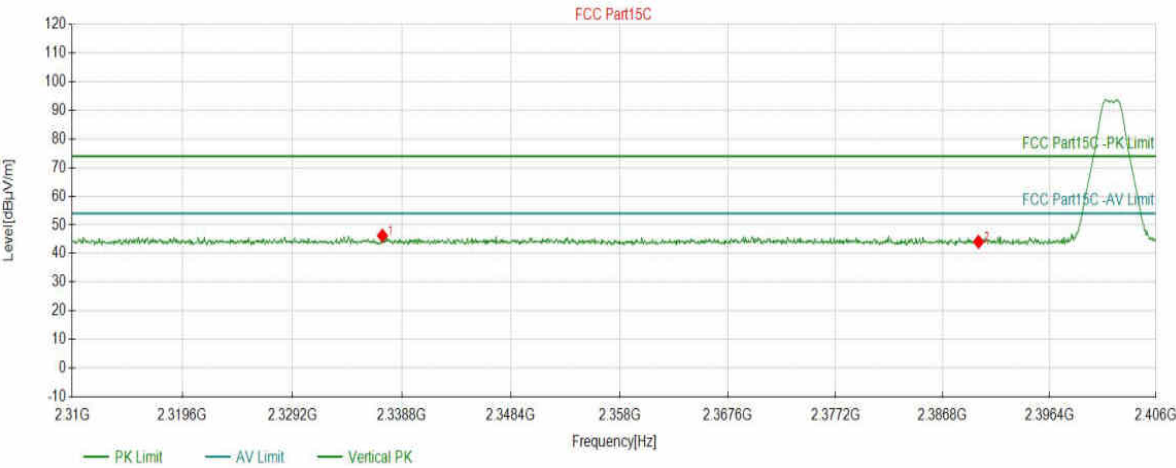
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2366.2361	46.07	5.67	74.00	27.93	150	240	PK	Horizont
2	2390.0080	44.11	5.65	74.00	29.89	150	75	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP16	SN:	
Mode:	BLE_2M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 20:38:06

Test Graph



Suspected Data List

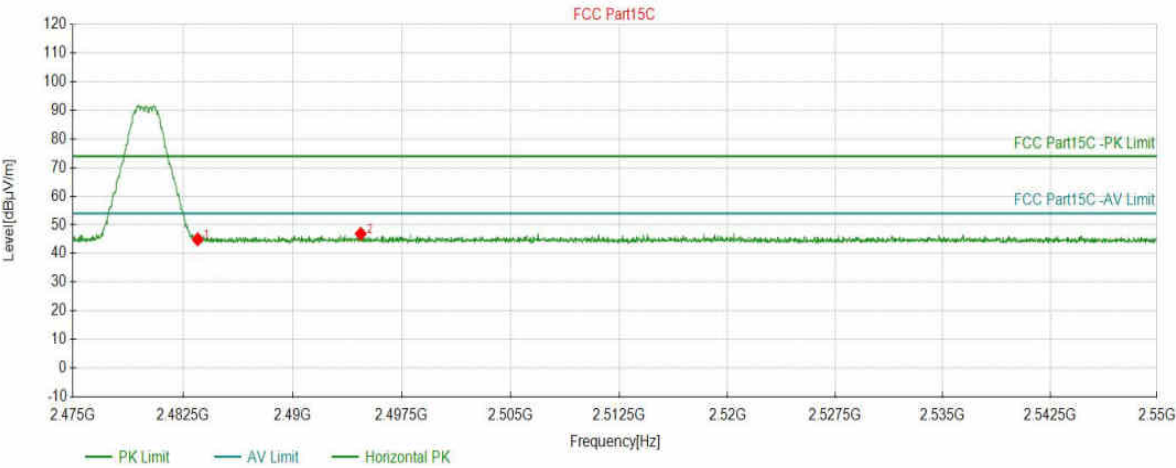
NO.	Freq. (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2337.0855	46.25	5.70	74.00	27.75	150	12	PK	Vertical
2	2390.0080	44.10	5.65	74.00	29.90	150	245	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP16	SN:	
Mode:	BLE_2M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 20:41:25

Test Graph



Suspected Data List

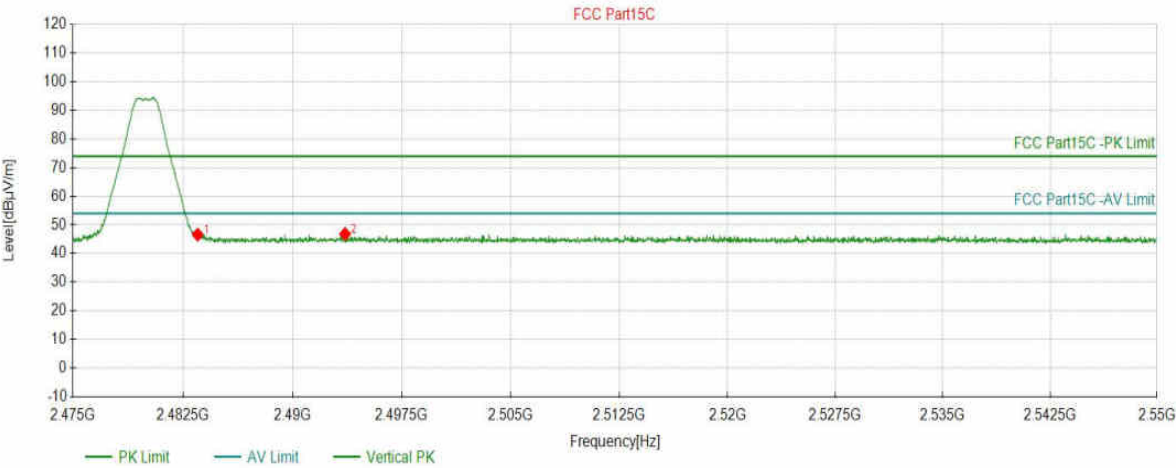
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	44.96	6.24	74.00	29.04	150	178	PK	Horizont
2	2494.6816	46.91	6.32	74.00	27.09	150	139	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP16	SN:	
Mode:	BLE_2M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 20:42:25

Test Graph



Suspected Data List

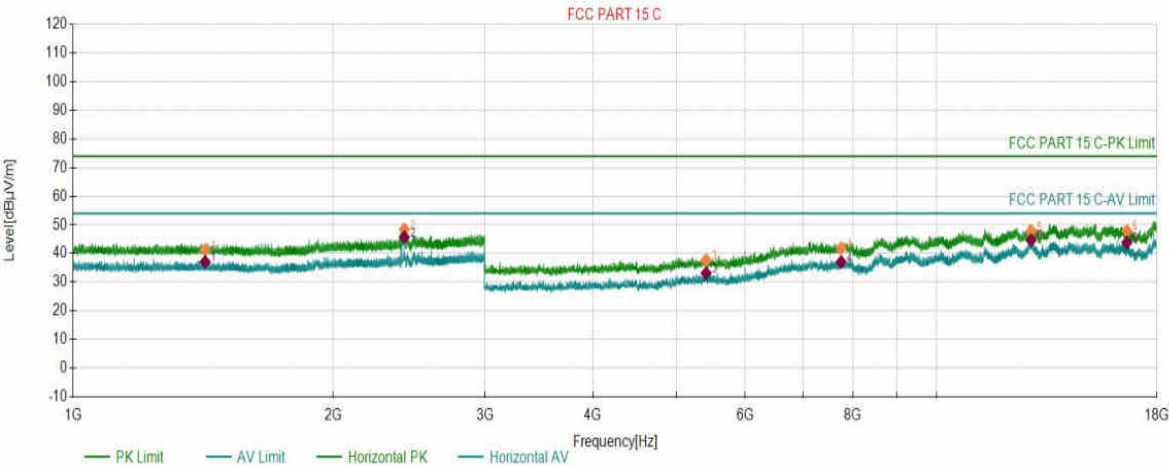
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	46.60	6.24	74.00	27.40	150	145	PK	Vertical
2	2493.6062	46.83	6.31	74.00	27.17	150	73	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:08:40

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1421.8211	3.29	41.20	74.00	32.80	150	299	Horizontal
2	2418.5709	7.23	48.48	74.00	25.52	150	115	Horizontal
3	5408.3704	-8.25	37.72	74.00	36.28	150	277	Horizontal
4	7752.2376	-0.75	41.83	74.00	32.17	150	111	Horizontal
5	12864.4932	9.40	47.75	74.00	26.25	150	7	Horizontal
6	16609.4305	11.18	47.90	74.00	26.10	150	180	Horizontal

AV Final Data List

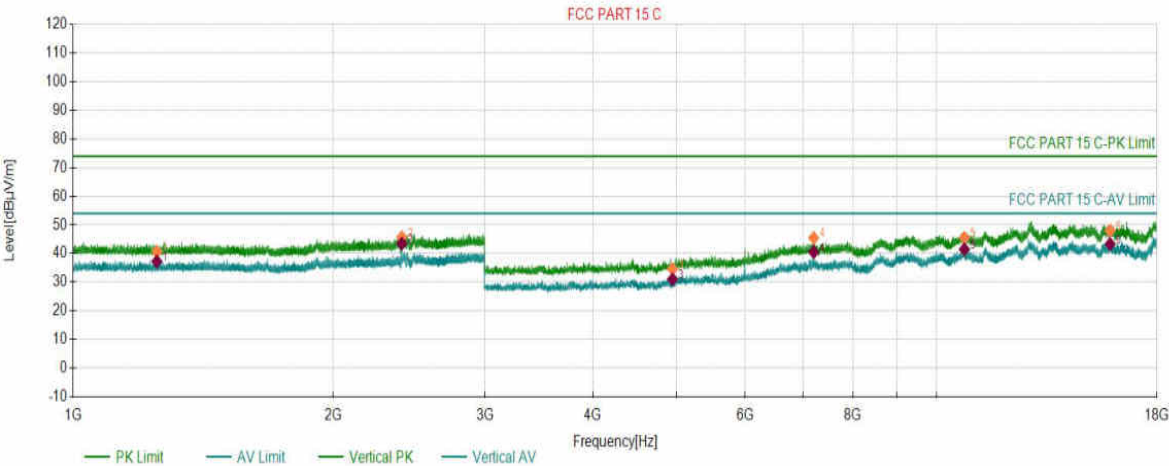
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1421.8211	3.29	37.09	54.00	16.91	150	299	Horizontal
2	2418.5709	7.23	45.72	54.00	8.28	150	115	Horizontal
3	5408.3704	-8.25	33.15	54.00	20.85	150	277	Horizontal
4	7752.2376	-0.75	37.07	54.00	16.93	150	111	Horizontal
5	12864.4932	9.40	44.69	54.00	9.31	150	7	Horizontal
6	16609.4305	11.18	43.87	54.00	10.13	150	180	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:10:20

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1250.1125	2.47	40.62	74.00	33.38	150	0	Vertical
2	2402.2701	7.13	45.67	74.00	28.33	150	358	Vertical
3	4944.8472	-9.00	34.61	74.00	39.39	150	148	Vertical
4	7206.2103	-1.52	45.44	74.00	28.56	150	198	Vertical
5	10768.8884	5.55	45.45	74.00	28.55	150	22	Vertical
6	15883.3942	12.17	47.95	74.00	26.05	150	2	Vertical

AV Final Data List

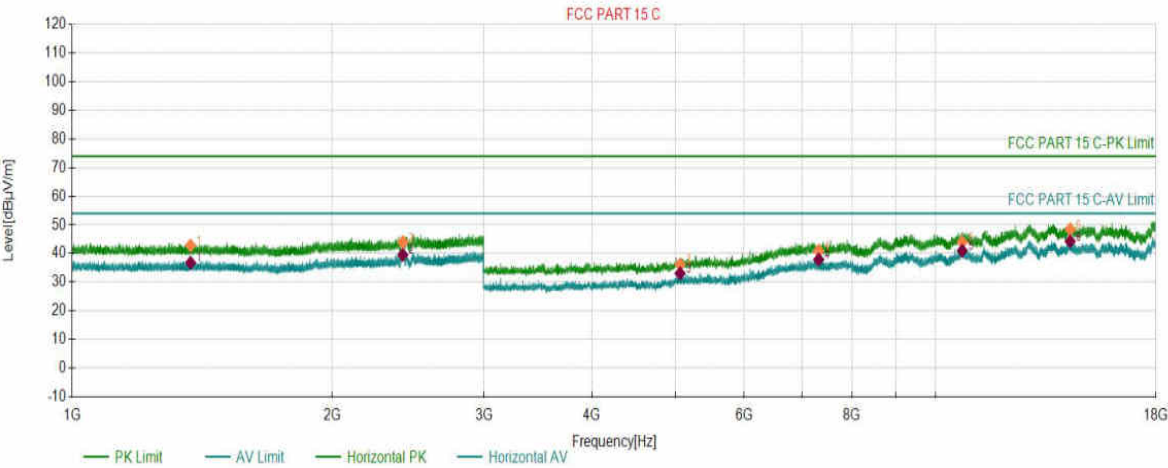
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1250.1125	2.47	37.24	54.00	16.76	150	0	Vertical
2	2402.2701	7.13	43.44	54.00	10.56	150	358	Vertical
3	4944.8472	-9.00	31.03	54.00	22.97	150	148	Vertical
4	7206.2103	-1.52	40.51	54.00	13.49	150	198	Vertical
5	10768.8884	5.55	41.50	54.00	12.50	150	22	Vertical
6	15883.3942	12.17	43.32	54.00	10.68	150	2	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:17:43

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1371.2186	3.08	42.83	74.00	31.17	150	358	Horizontal
2	2415.0708	7.21	44.02	74.00	29.98	150	206	Horizontal
3	5059.6030	-8.47	36.14	74.00	37.86	150	354	Horizontal
4	7322.4661	-1.25	40.95	74.00	33.05	150	243	Horizontal
5	10735.8868	5.51	44.00	74.00	30.00	150	15	Horizontal
6	14317.3159	11.12	48.47	74.00	25.53	150	195	Horizontal

AV Final Data List

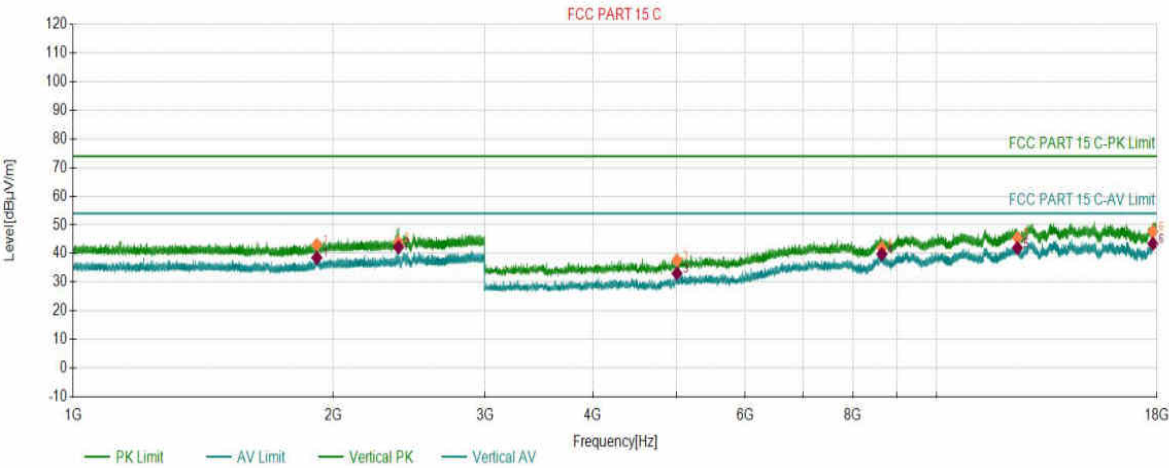
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1371.2186	3.08	36.78	54.00	17.22	150	358	Horizontal
2	2415.0708	7.21	39.56	54.00	14.44	150	206	Horizontal
3	5059.6030	-8.47	33.07	54.00	20.93	150	354	Horizontal
4	7322.4661	-1.25	37.92	54.00	16.08	150	243	Horizontal
5	10735.8868	5.51	41.01	54.00	12.99	150	15	Horizontal
6	14317.3159	11.12	44.31	54.00	9.69	150	195	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2440	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:19:23

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1915.0458	4.49	43.10	74.00	30.90	150	127	Vertical
2	2381.2691	6.58	43.83	74.00	30.17	150	309	Vertical
3	5004.1002	-8.59	37.64	74.00	36.36	150	108	Vertical
4	8641.7821	1.95	41.99	74.00	32.01	150	99	Vertical
5	12404.7202	7.17	45.46	74.00	28.54	150	194	Vertical
6	17804.9903	13.87	47.66	74.00	26.34	150	137	Vertical

AV Final Data List

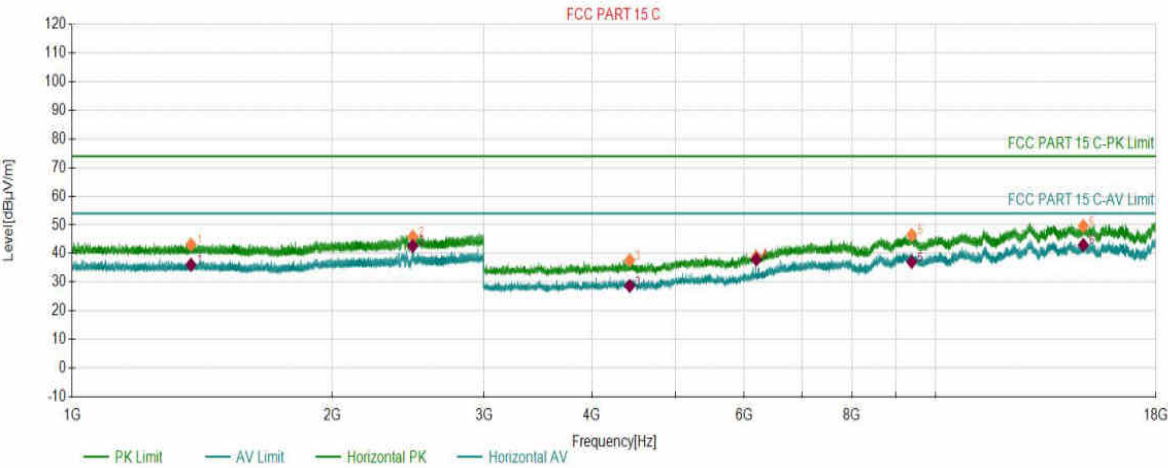
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1915.0458	4.49	38.56	54.00	15.44	150	127	Vertical
2	2381.2691	6.58	42.23	54.00	11.77	150	309	Vertical
3	5004.1002	-8.59	33.05	54.00	20.95	150	108	Vertical
4	8641.7821	1.95	39.81	54.00	14.19	150	99	Vertical
5	12404.7202	7.17	41.96	54.00	12.04	150	194	Vertical
6	17804.9903	13.87	43.44	54.00	10.56	150	137	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:22:57

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBμV/m)	PK Limit (dBμV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1372.7186	3.09	43.16	74.00	30.84	150	228	Horizontal
2	2480.1740	7.60	45.88	74.00	28.12	150	246	Horizontal
3	4423.5712	-11.39	37.65	74.00	36.35	150	20	Horizontal
4	6199.6600	-5.47	38.85	74.00	35.15	150	319	Horizontal
5	9383.5692	4.02	46.50	74.00	27.50	150	117	Horizontal
6	14828.0914	12.39	49.66	74.00	24.34	150	252	Horizontal

AV Final Data List

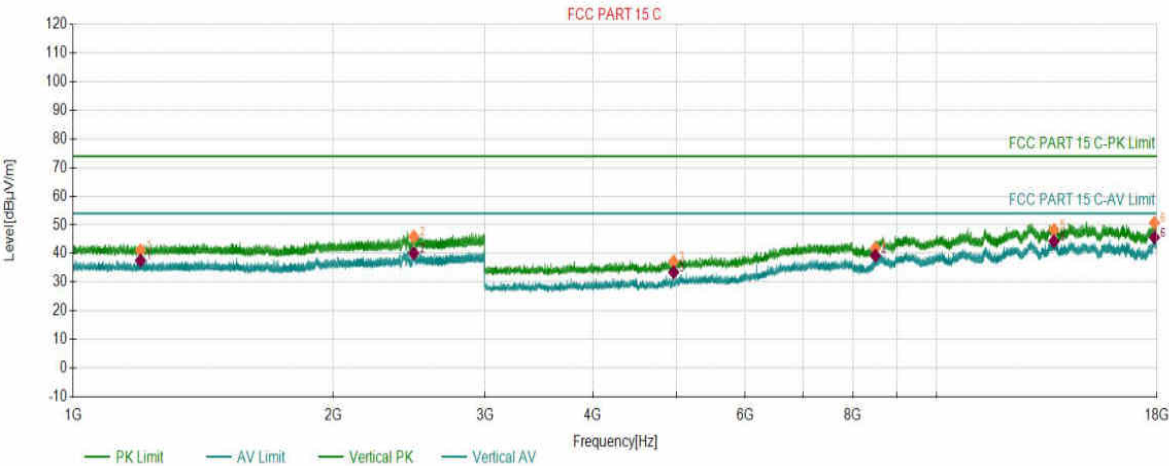
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBμV/m)	AV Limit (dBμV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1372.7186	3.09	36.09	54.00	17.91	150	228	Horizontal
2	2480.1740	7.60	42.67	54.00	11.33	150	246	Horizontal
3	4423.5712	-11.39	28.74	54.00	25.26	150	20	Horizontal
4	6199.6600	-5.47	37.94	54.00	16.06	150	319	Horizontal
5	9383.5692	4.02	37.11	54.00	16.89	150	117	Horizontal
6	14828.0914	12.39	43.02	54.00	10.98	150	252	Horizontal

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:24:36

Test Graph



PK Final Data List

NO.	Freq. (MHz)	Factor (dB)	PK Value (dBµV/m)	PK Limit (dBµV/m)	PK Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1196.8098	2.26	41.07	74.00	32.93	150	42	Vertical
2	2480.1740	7.60	45.88	74.00	28.12	150	157	Vertical
3	4959.8480	-8.89	37.20	74.00	36.80	150	211	Vertical
4	8491.7746	1.08	41.82	74.00	32.18	150	318	Vertical
5	13675.2838	10.80	48.32	74.00	25.68	150	193	Vertical
6	17876.2438	14.38	50.74	74.00	23.26	150	308	Vertical

AV Final Data List

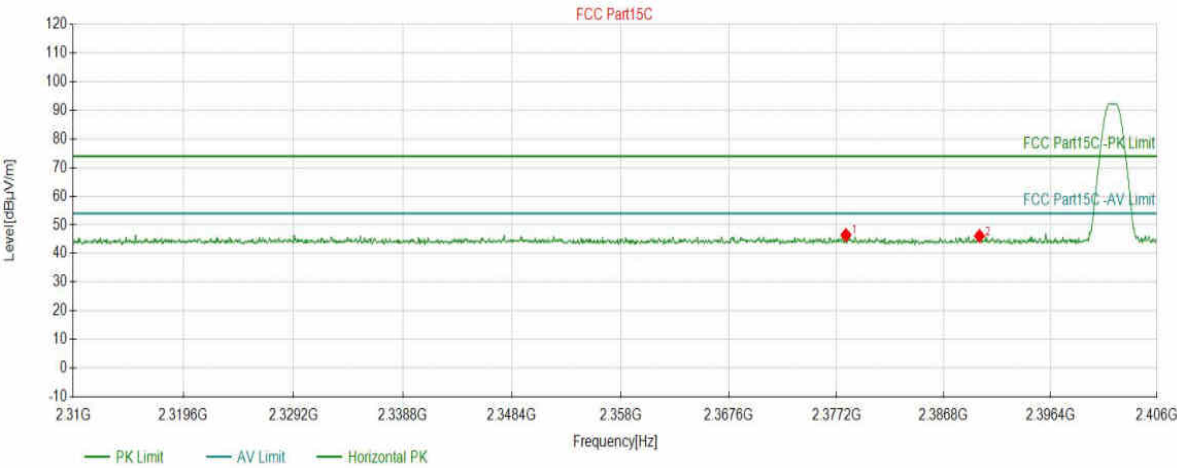
NO.	Freq. (MHz)	Factor (dB)	AV Value (dBµV/m)	AV Limit (dBµV/m)	AV Margin (dB)	Height (cm)	Angle (°)	Polarity
1	1196.8098	2.26	37.59	54.00	16.41	150	42	Vertical
2	2480.1740	7.60	40.12	54.00	13.88	150	157	Vertical
3	4959.8480	-8.89	33.52	54.00	20.48	150	211	Vertical
4	8491.7746	1.08	39.24	54.00	14.76	150	318	Vertical
5	13675.2838	10.80	44.27	54.00	9.73	150	193	Vertical
6	17876.2438	14.38	45.63	54.00	8.37	150	308	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:13:11

Test Graph



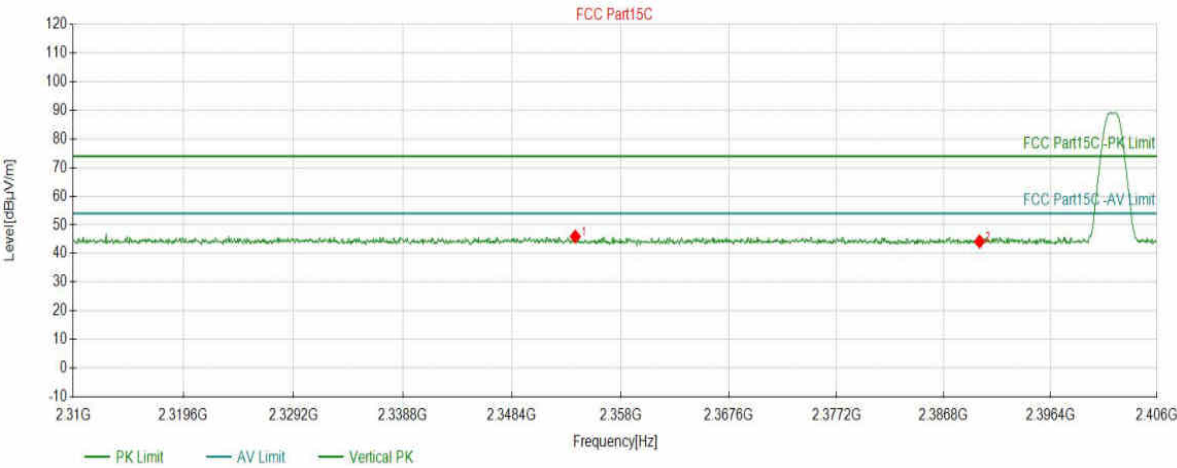
Suspected Data List									
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2378.0500	46.48	5.66	74.00	27.52	150	19	PK	Horizont
2	2390.0080	46.11	5.65	74.00	27.89	150	178	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:14:55

Test Graph



Suspected Data List

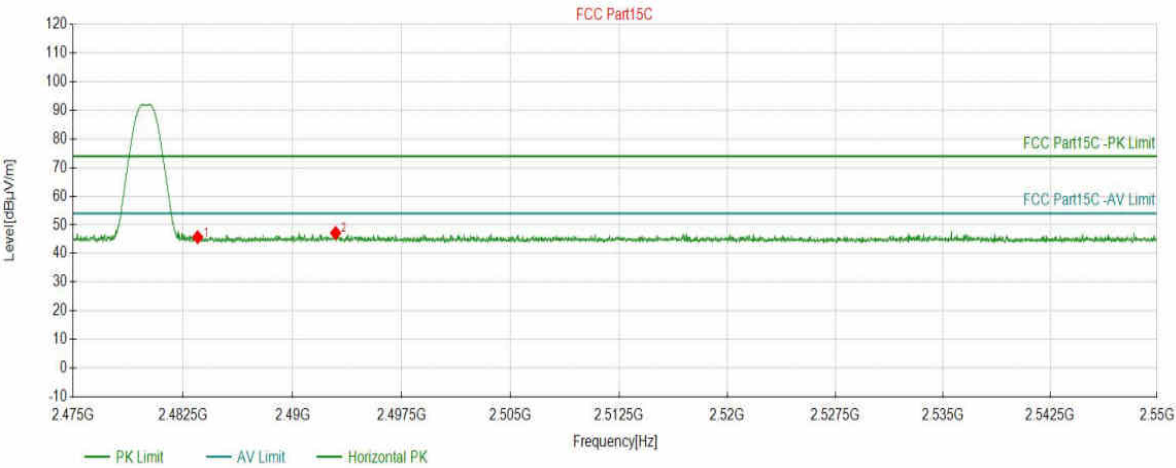
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2353.9900	45.95	5.69	74.00	28.05	150	234	PK	Vertical
2	2390.0080	44.19	5.65	74.00	29.81	150	13	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:28:22

Test Graph



Suspected Data List

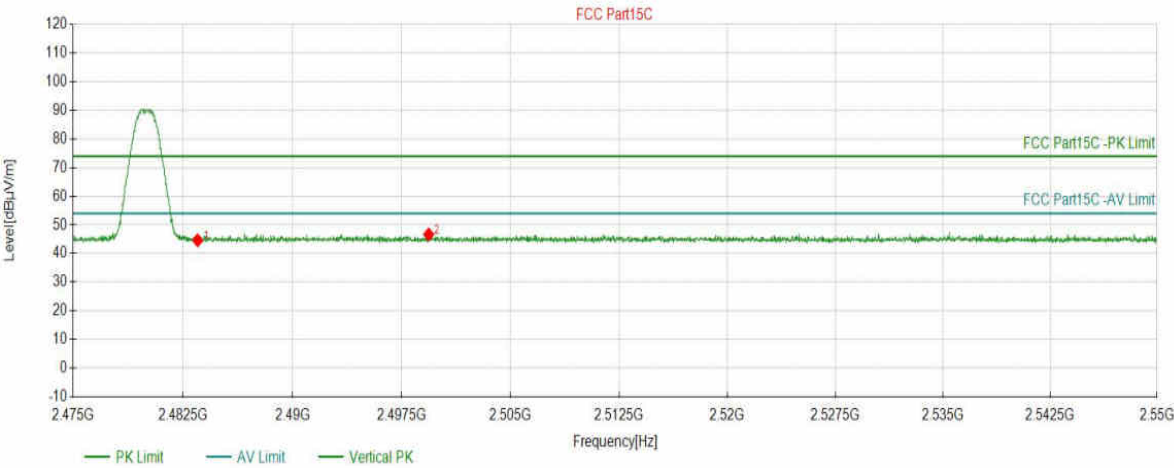
NO.	Freq. (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	45.71	6.24	74.00	28.29	150	294	PK	Horizont
2	2492.9560	47.19	6.31	74.00	26.81	150	359	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_1M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-02-27 23:29:15

Test Graph



Suspected Data List

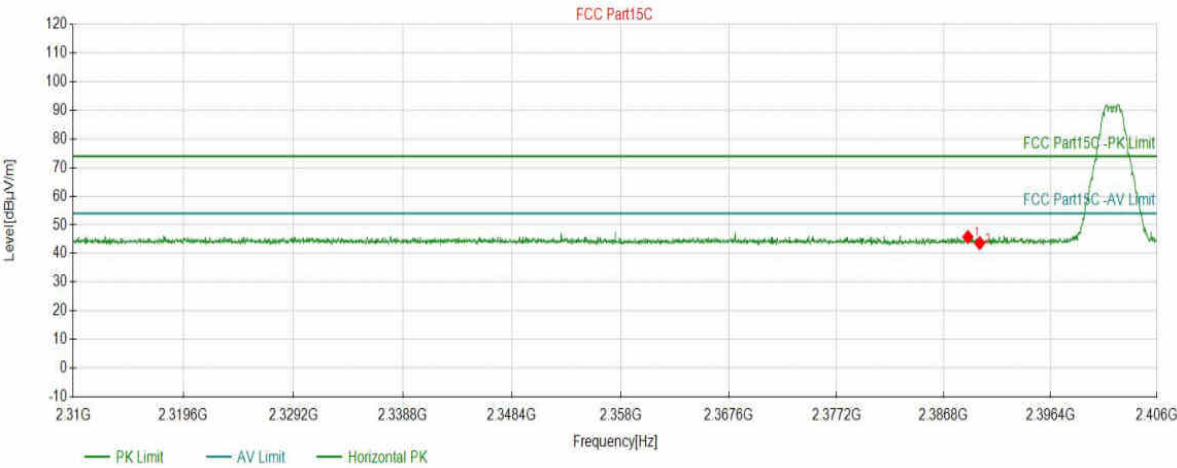
NO.	Freq. (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5028	44.61	6.24	74.00	29.39	150	0	PK	Vertical
2	2499.3581	46.65	6.36	74.00	27.35	150	254	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_2M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 20:02:09

Test Graph



Suspected Data List

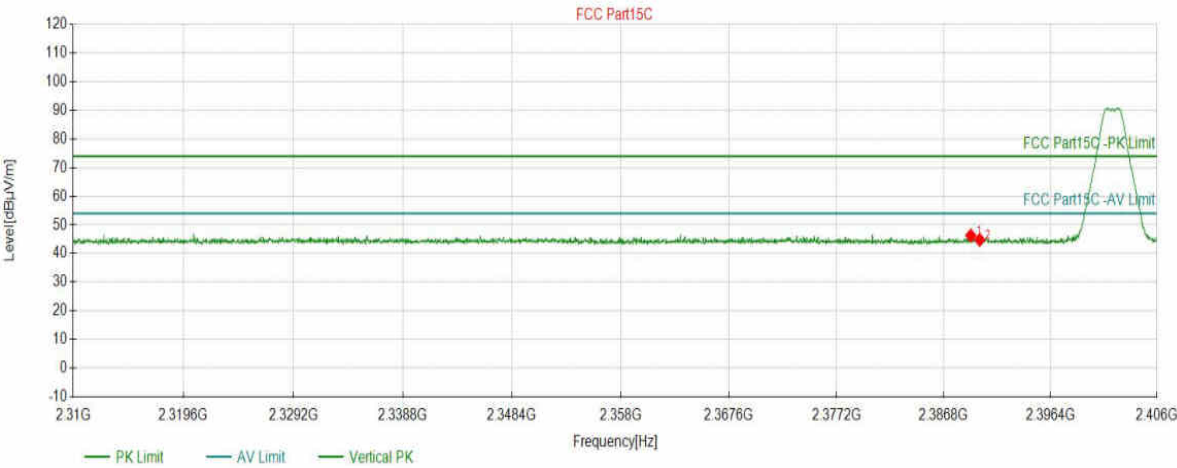
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2388.9703	45.78	5.65	74.00	28.22	150	52	PK	Horizont
2	2390.0267	43.64	5.65	74.00	30.36	150	325	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_2M_2402	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 20:03:11

Test Graph



Suspected Data List

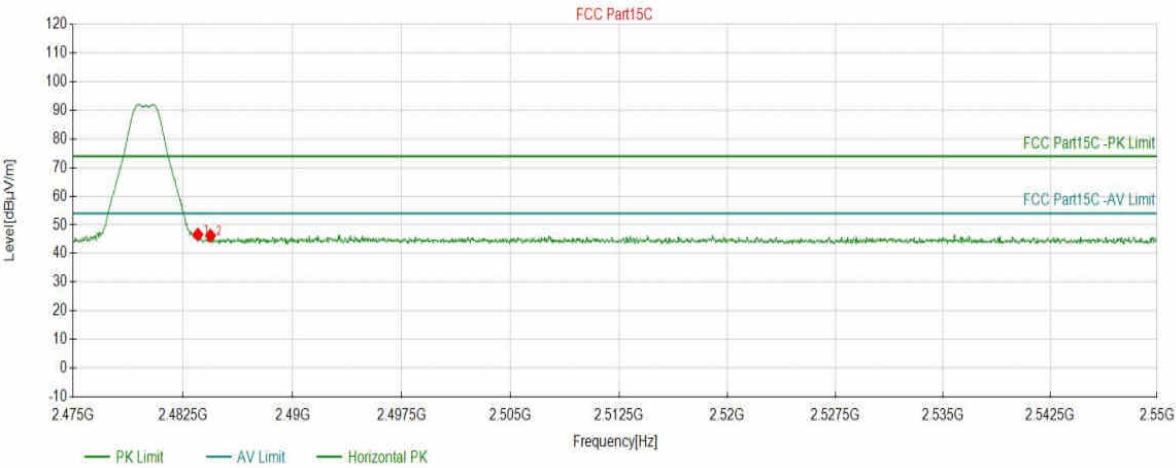
NO.	Freq. (MHz)	Level (dBµV/m)	Factor (dB)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2389.2264	46.32	5.65	74.00	27.68	150	285	PK	Vertical
2	2390.0267	44.80	5.65	74.00	29.20	150	273	PK	Vertical

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_2M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 20:08:08

Test Graph



Suspected Data List

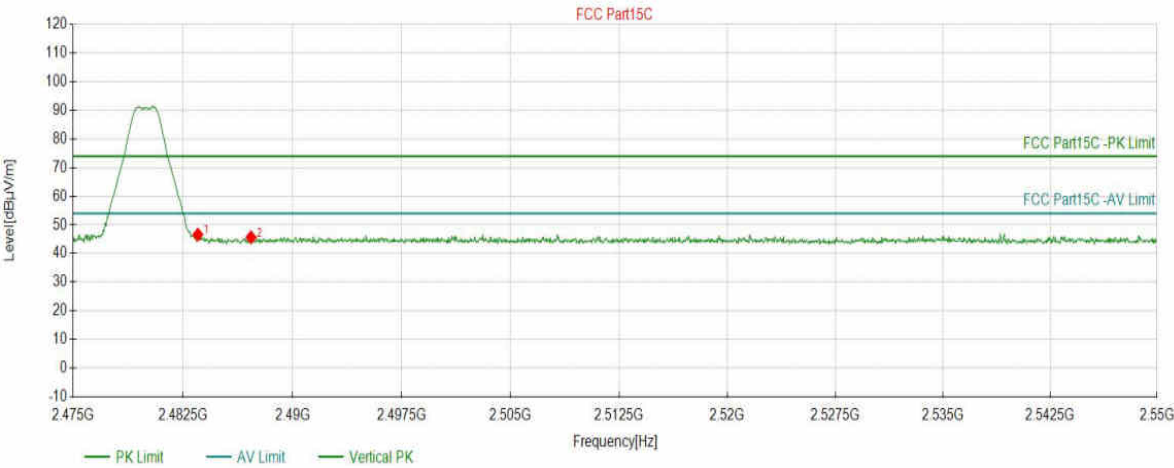
NO.	Freq. (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5168	46.62	6.24	74.00	27.38	150	225	PK	Horizont
2	2484.3797	46.24	6.25	74.00	27.76	150	217	PK	Horizont

Test Report

Project Information			
EUT:	Tablet	Environment:	21.9℃ 41%
Model:	Xenon MP10	SN:	
Mode:	BLE_2M_2480	Voltage:	DC 12V
Customer:		Engineer:	Soho Liu
Remark:			

Start of Test: 2024-03-05 20:08:57

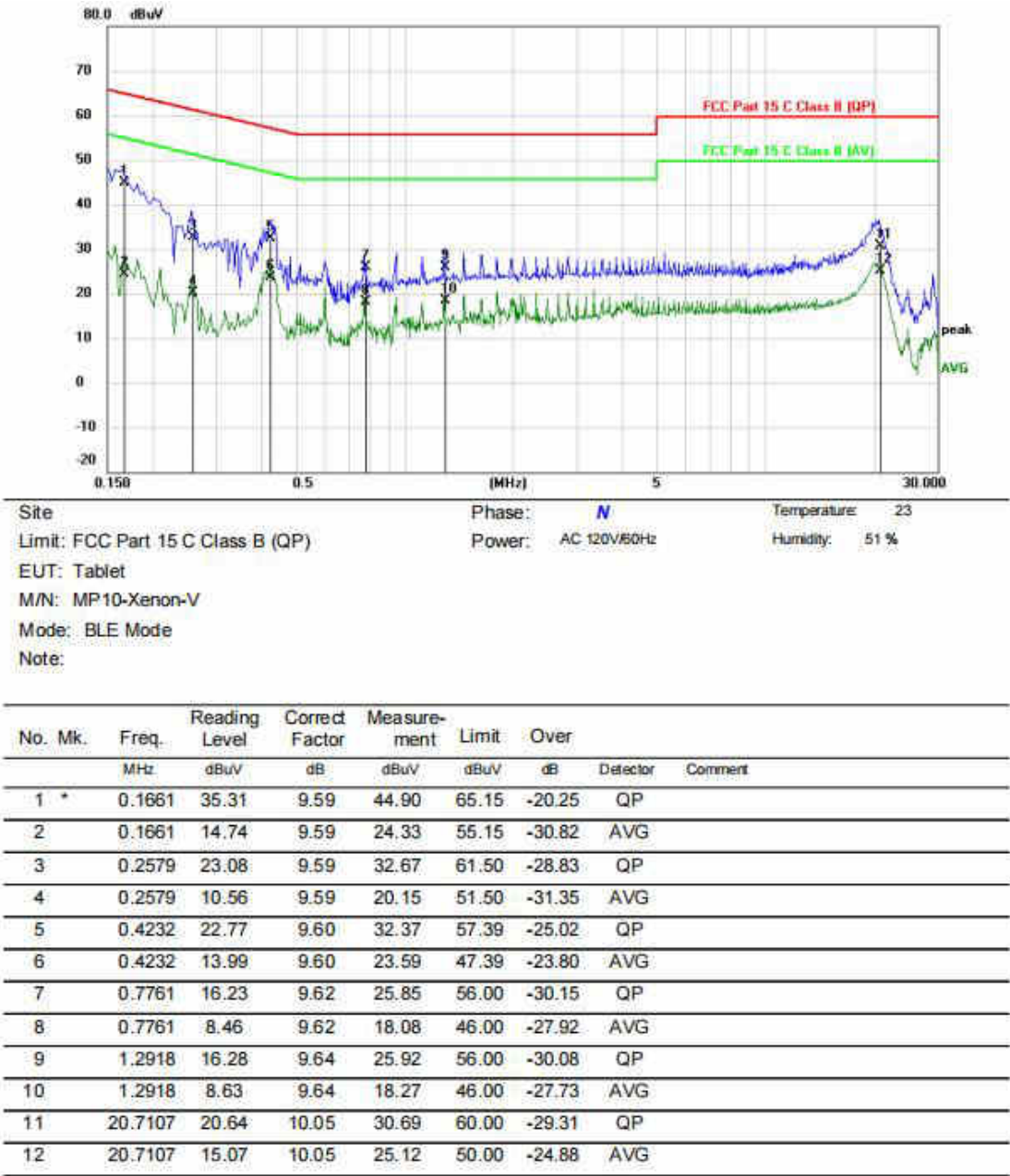
Test Graph

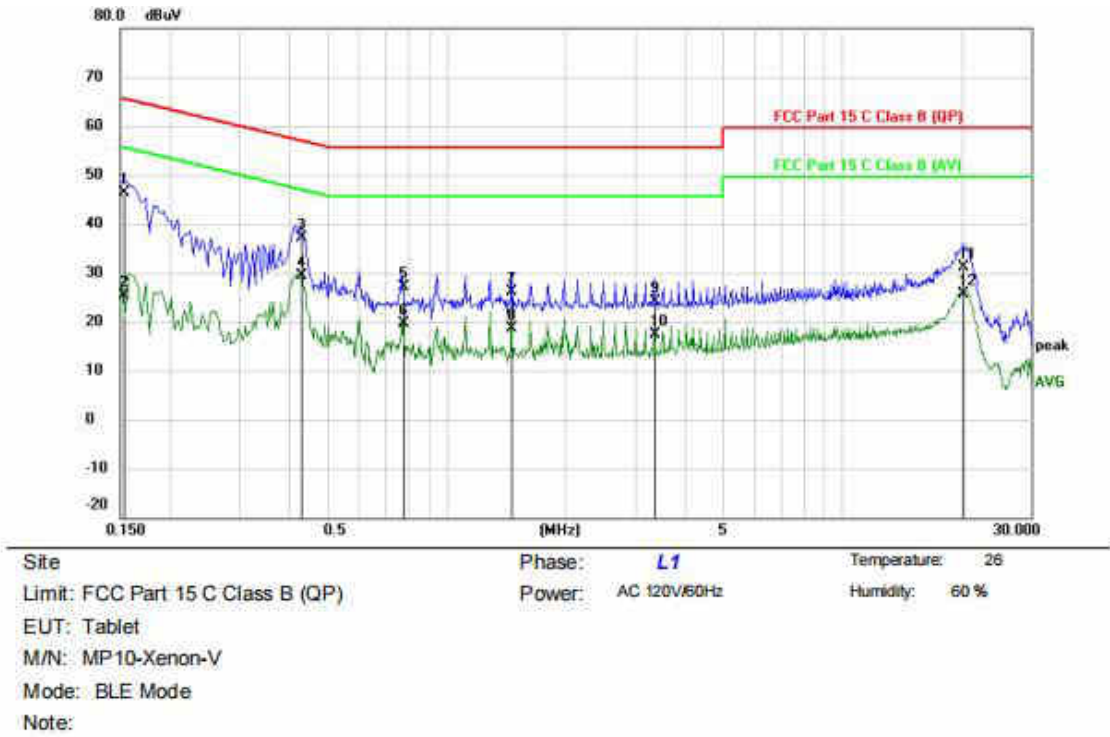


Suspected Data List

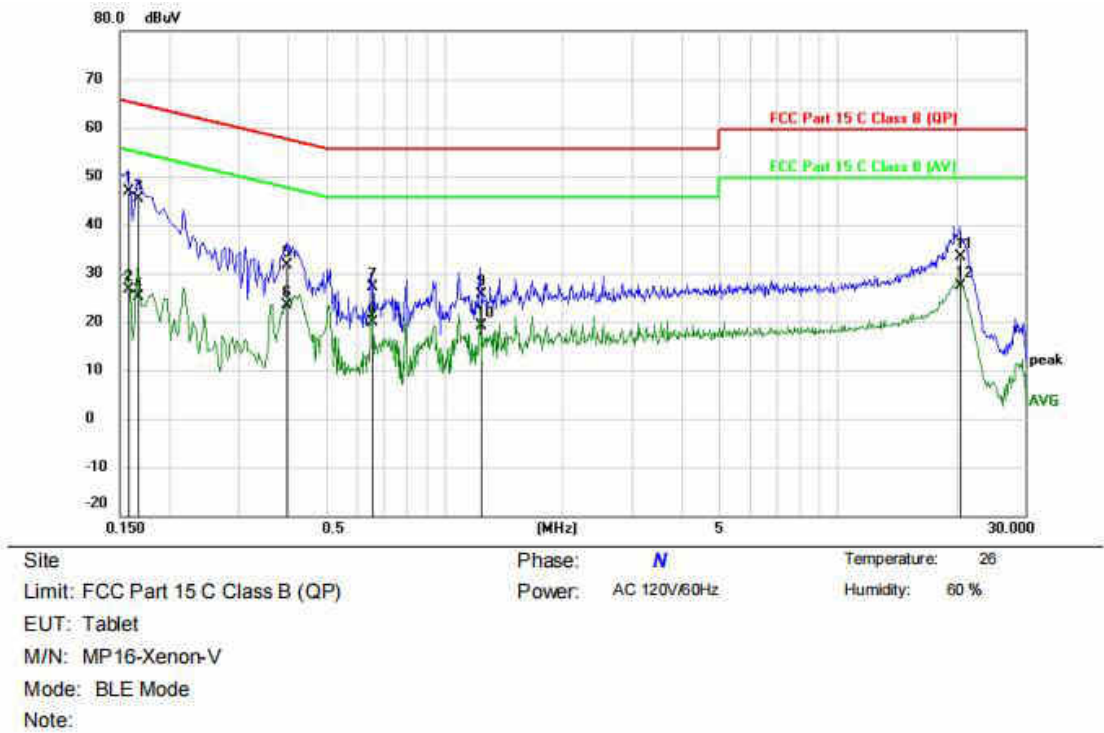
NO.	Freq. (MHz)	Level (dBμV/m)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Detector	Polarity
1	2483.5168	46.58	6.24	74.00	27.42	150	170	PK	Vertical
2	2487.1561	45.65	6.27	74.00	28.35	150	138	PK	Vertical

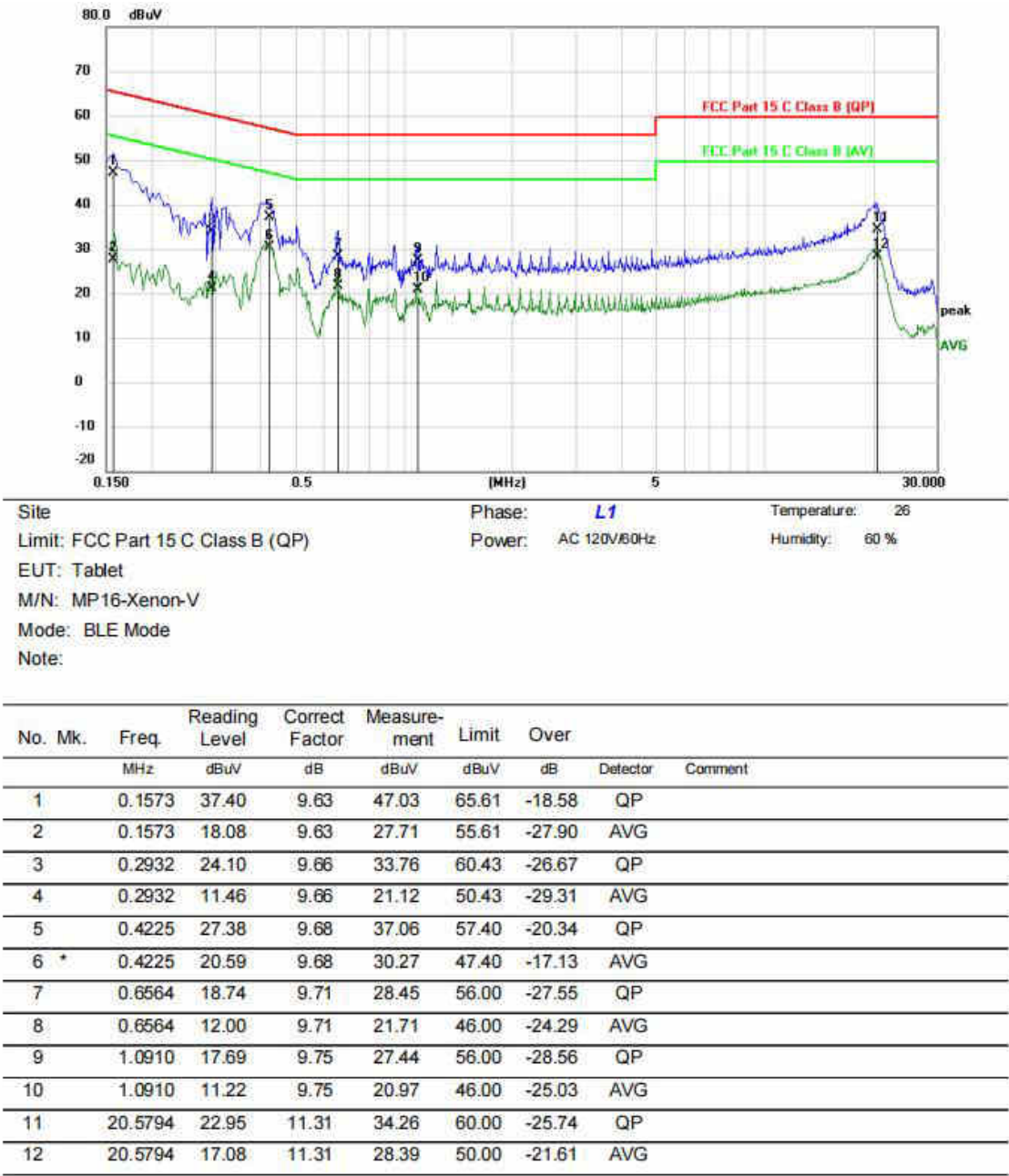
APPENDIX C – AC Power Line Conducted Emission Test Data

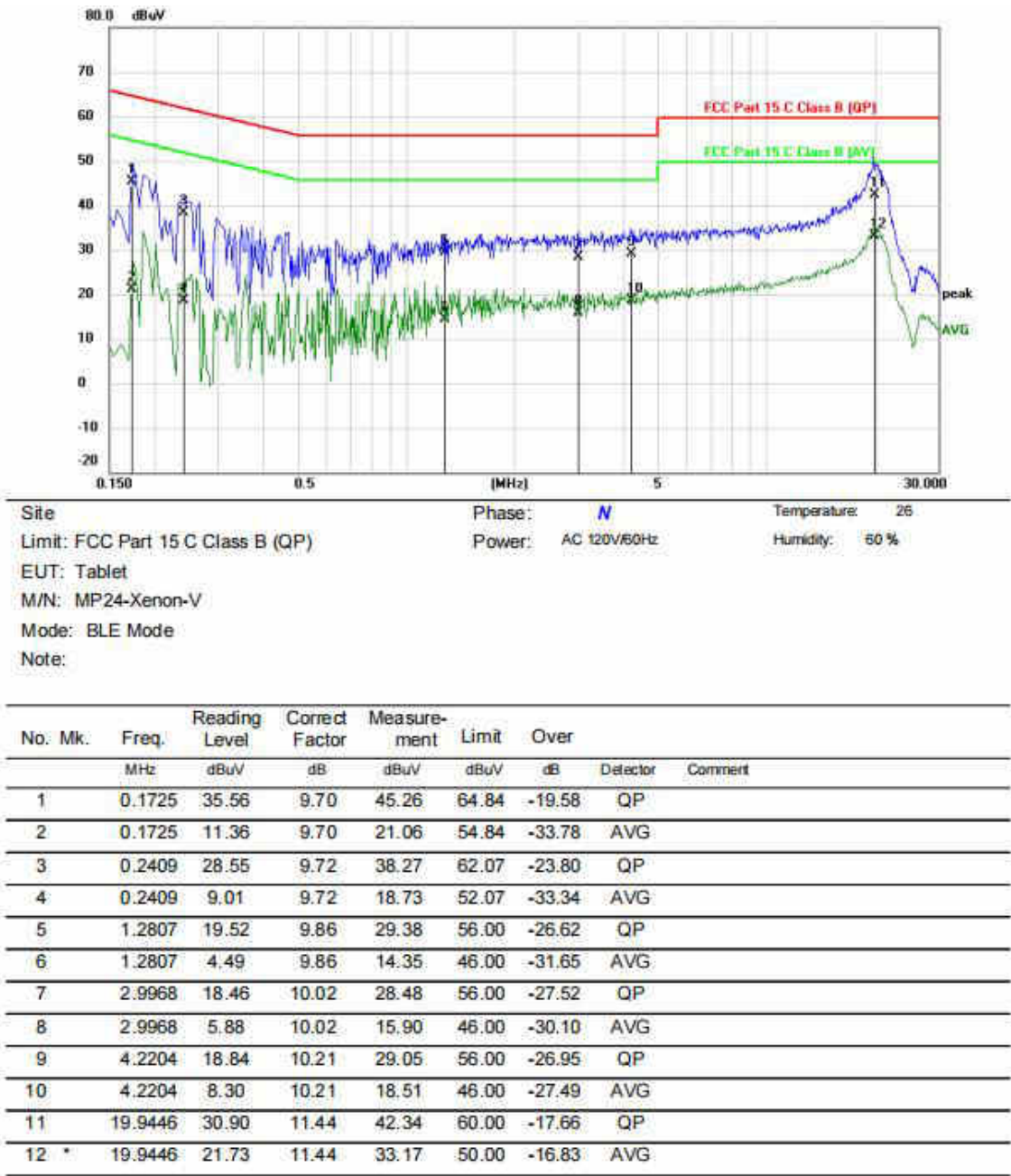


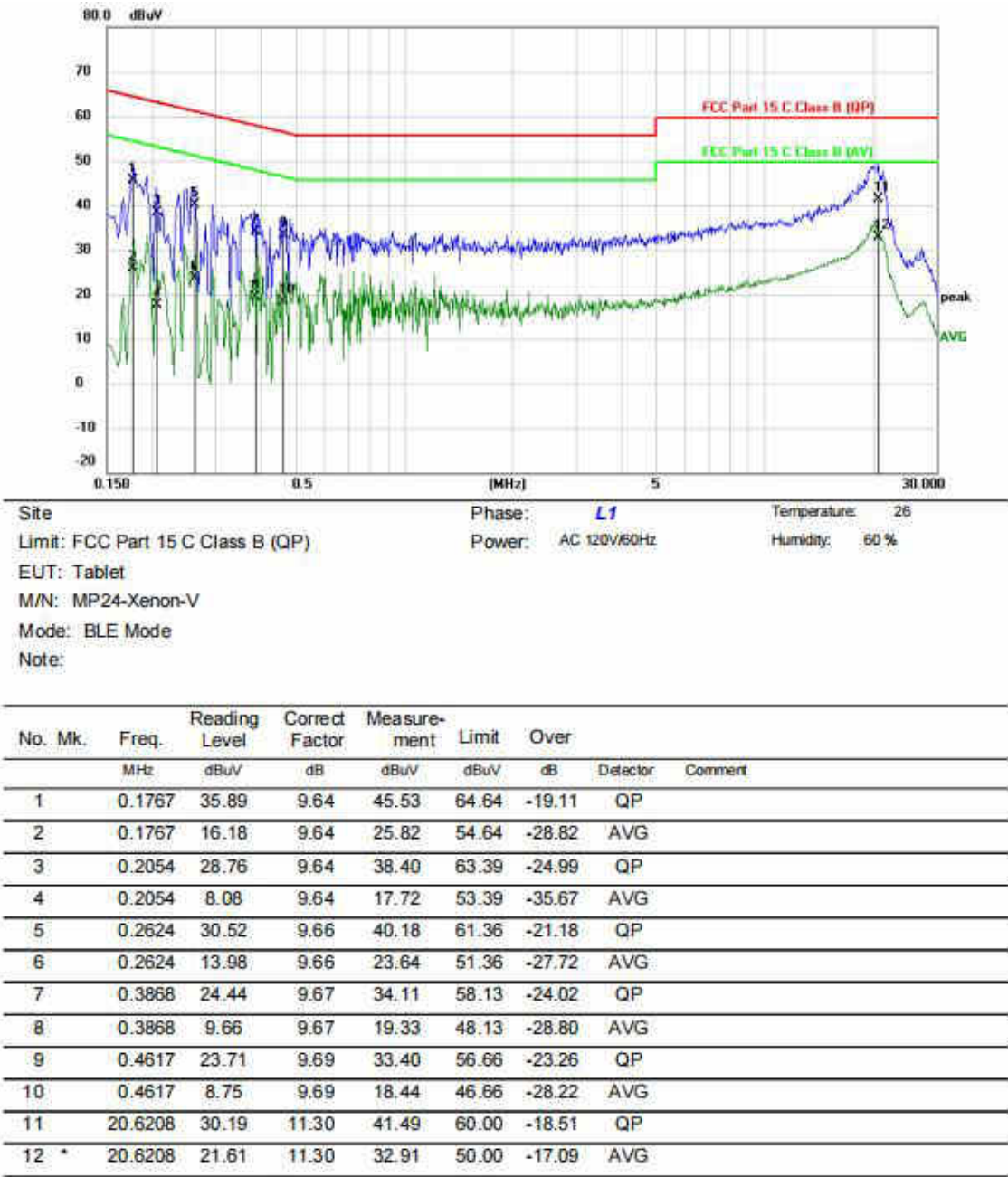


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1		0.1536	36.75	9.61	46.36	65.80	-19.44	QP	
2		0.1536	15.70	9.61	25.31	55.80	-30.49	AVG	
3		0.4302	27.62	9.61	37.23	57.25	-20.02	QP	
4	*	0.4302	19.67	9.61	29.28	47.25	-17.97	AVG	
5		0.7755	17.39	9.63	27.02	56.00	-28.98	QP	
6		0.7755	9.92	9.63	19.55	46.00	-26.45	AVG	
7		1.4632	16.51	9.65	26.16	56.00	-29.84	QP	
8		1.4632	9.00	9.65	18.65	46.00	-27.35	AVG	
9		3.3562	14.52	9.71	24.23	56.00	-31.77	QP	
10		3.3562	7.75	9.71	17.46	46.00	-28.54	AVG	
11		20.2103	21.10	10.02	31.12	60.00	-28.88	QP	
12		20.2103	15.57	10.02	25.59	50.00	-24.41	AVG	









END OF REPORT