

FCC PART 15E TEST REPORT FOR CERTIFICATION On Behalf of

Zhuhai Quin Technology Co., Ltd

Label Printer

Model Number: PM-344-WF

Additional Model: PM-344-WF PRO, AM-344-WF, AM-344-WF PRO, PM-244-WF, PM-244-WF PRO, AM-244-WF, AM-244-WF PRO, PM-345-WF, PM-345-WF PRO, AM-345-WF, AM-345-WF PRO, PM-245-WF, PM-245-WF PRO, AM-245-WF, AM-245-WF PRO, PM-346-WF, PM-346-WF PRO, AM-346-WF, AM-346-WF PRO, PM-246-WF, PM-246-WF PRO, AM-246-WF, AM-246-WF PRO, PM-347-WF, PM-347-WF PRO, AM-347-WF, AM-347-WF PRO, PM-247-WF, PM-247-WF PRO, AM-247-WF, AM-247-WF PRO, PM-348-WF, PM-348-WF PRO, AM-348-WF, AM-348-WF PRO, PM-248-WF, PM-248-WF PRO, AM-248-WF, AM-248-WF PRO, PM-349-WF, PM-349-WF PRO, AM-349-WF, AM-349-WF PRO, PM-249-WF, PM-249-WF PRO, AM-249-WF, AM-249-WF PRO

FCC ID: 2ASRB-344WF

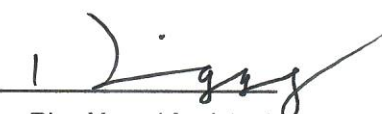
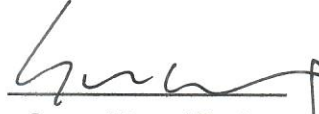


Applicant :	Zhuhai Quin Technology Co., Ltd
Address:	ROOM 103-029(CENTRALIZED OFFICE AREA), 1F, BUILDING 1, NO. 18 FUTIAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY, CHINA
Prepared By:	EST Technology Co., Ltd. Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Tel: 86-769-83081888-808	

Report Number:	ESTE-R2406045
Date of Test:	Apr. 19, 2024~ Jun. 03, 2024
Date of Report:	Jun. 06, 2024

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Applicant/ Manufacturer: Address:	Zhuhai Quin Technology Co., Ltd ROOM 103-029(CENTRALIZED OFFICE AREA), 1F, BUILDING 1, NO. 18 FUTIAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY, CHINA		
E.U.T:	Label Printer		
Model Number:	PM-344-WF		
Additional Model:	PM-344-WF PRO, AM-344-WF, AM-344-WF PRO, PM-244-WF, PM-244-WF PRO, AM-244-WF, AM-244-WF PRO, PM-345-WF, PM-345-WF PRO, AM-345-WF, AM-345-WF PRO, PM-245-WF, PM-245-WF PRO, AM-245-WF, AM-245-WF PRO, PM-346-WF, PM-346-WF PRO, AM-346-WF, AM-346-WF PRO, PM-246-WF, PM-246-WF PRO, AM-246-WF, AM-246-WF PRO, PM-347-WF, PM-347-WF PRO, AM-347-WF, AM-347-WF PRO, PM-247-WF, PM-247-WF PRO, AM-247-WF, AM-247-WF PRO, PM-348-WF, PM-348-WF PRO, AM-348-WF, AM-348-WF PRO, PM-248-WF, PM-248-WF PRO, AM-248-WF, AM-248-WF PRO, PM-349-WF, PM-349-WF PRO, AM-349-WF, AM-349-WF PRO, PM-249-WF, PM-249-WF PRO, AM-249-WF, AM-249-WF PRO Note: They are identical except model name, color and appearance.		
Power Supply:	DC 24V From Adapter Input AC 100-240V, 50/60Hz		
Trade Name:	-----	Serial No.:	-----
Date of Receipt:	Apr. 19, 2024	Date of Test:	Apr. 19, 2024~ Jun. 03, 2024
Test Specification:	FCC Part 15 Subpart E 15.407 ANSI C63.10:2013 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart E requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.		
Prepared by:	Reviewed by:	Date: Jun. 06, 2024	
 Ring Yang / Assistant	 Seven Wang / Engineer	 Approved by:  Iceman Hu / Manager	
Other Aspects: None.			
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1.GENERAL INFORMATION

1.1.Description of Device (EUT)

FCC ID	:	2ASRB-344WF
Product Name	:	Label Printer
Model Number	:	PM-344-WF
Software Version	:	N/A
Hardware Version	:	N/A
Operation frequency	:	U-NII-1: 5150 MHz~5250 MHz U-NII-3: 5725 MHz~5850 MHz
Number of channel	:	U-NII-1: IEEE 802.11a: 4 Channels; U-NII-3: IEEE 802.11a: 5 Channels
Modulation	:	OFDM
Transmit Data Rate	:	IEEE 802.11a: 54, 48, 36, 24, 18, 12, 9, 6Mbps
Channels Spacing	:	IEEE 802.11a: 20MHz
Transmit Power	:	U-NII-1 IEEE 802.11a: 18.14dBm U-NII-3 IEEE 802.11a: 17.90dBm
Sample Type	:	Prototype production

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2.The antenna information for EUT

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Internal	-	2.21

Note:
 1.The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
 2.The test results of this report only apply to the sample as received.

1.3.Information of RF Cable

Cable Loss(dB)	Provided by
1.0	Zhuhai Quin Technology Co.,Ltd

Note:
 1.The customer declared the loss value of the RF Cable. and the test results of thisreport only apply to the sample as received.
 2.The laboratory is not responsible for the accuracy of the cable loss.

2.SUMMARY OF TEST

2.1.Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	6dB Bandwidth & 26dB Bandwidth & 99% Occupied Bandwidth	15.407(a) 15.407(e)	PASS
2	Maximum Conducted Output Power	15.407(a)	PASS
3	Peak Power Spectral Density	15.407(a)	PASS
4	Unwanted Emissions and Band Edge	15.205 15.209 15.407(b)	PASS
5	Frequency Stability	15.407(g)	PASS
6	AC Power Line Conducted Emissions	15.207 15.407(b)(9)	PASS
7	Antenna Requirement	15.203	PASS

Note:“N/A” denotes test is not applicable in this test report.

2.2.Test Facilities

EMC Lab : Accredited by CNAS, CHINA
Registration No.: L5288
This Accreditation is valid until: November 12, 2029

Recognized by FCC, USA
Designation Number: CN1215
This Recognition is valid until: January 31, 2026

Accredited by A2LA, USA
Registration No.: 4366.01
This Accreditation is valid until: January 31, 2026

Recognized by Industry Canada
CAB identifier No.: CN0035
This Recognition is valid until: January 31, 2026

Recognized by VCCI, Japan
Registration No.:C-14103; T-20073; R-13663;
R-20103; G-20097
Date of registration: Apr. 20, 2020
This Recognition is valid until: Apr. 19, 2026

Recognized by TUV Rheinland, Germany
Registration No.: UA 50413872 0001
Date of registration: July 31, 2018

Recognized by Intertek
Registration No.: 2011-RTL-L2-64
Date of registration: November 08, 2018

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan,
Guangdong, China

2.3.Measurement uncertainty for EST Technology Co., Ltd.

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for spurious emissions test (Below 30MHz)	±1.62 dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for spurious emissions test (18GHz to 40GHz)	4.67
Uncertainty for radio frequency	7×10 ⁻⁸
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB
Temperature	±0.6°C
Humidity	±4.0 %
Volatage DC	±1.0%
Volatage (AC, <10KHz)	±1.5%

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

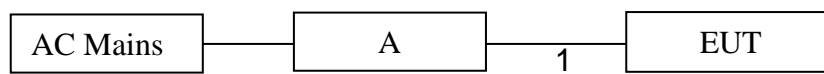
2.4.Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
A	Adapter	-	ZL-D060WC2402500	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.1m	DC Cable

2.5.Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground.



AC 120V/60Hz

(EUT: Label Printer)

2.6.Test Mode

Pre-scan has been combined all possible modulations and data rates to determine the worst case test mode,the worst case test mode was selected for the final test as listed below.

Test Item	Test Mode	Channel	Modulation	Data rate
6dB Bandwidth	IEEE 802.11a	149/157/165	OFDM	6Mbps
26dB Bandwidth	IEEE 802.11a	36/40/48	OFDM	6Mbps
99% Occupied Bandwidth	IEEE 802.11a	36/40/48/149/157/165	OFDM	6Mbps
Maximum Conducted Output Power	IEEE 802.11a	36/40/48/149/157/165	OFDM	6Mbps
Peak Power Spectral Density	IEEE 802.11a	36/40/48/149/157/165	OFDM	6Mbps
Unwanted Emissions and Band Edge(Above 1GHz)	IEEE 802.11a	36/40/48/149/157/165	OFDM	6Mbps
Unwanted Emissions Below 1GHz	IEEE 802.11a	36	OFDM	6Mbps
Frequency Stability	Unmodulation	36/149	N/A	N/A
AC Power Line Conducted Emissions	IEEE 802.11a	36	OFDM	6Mbps

Note: In radiated measurement,the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7.Channel List

Band	Mode	Channel	Frequency (MHz)
U-NII-1	IEEE 802.11a	36	5180
		40	5200
		44	5220
		48	5240
U-NII-3	IEEE 802.11a	149	5745
		153	5765
		157	5785
		161	5805
		165	5825

2.8.Power Setting of Test Software

Software Name	AmebaD_mptool_2V2		
U-NII-1			
Frequency(MHz)	5180	5200	5240
IEEE 802.11a Setting	120	120	120
U-NII-3			
Frequency(MHz)	5745	5785	5825
IEEE 802.11a Setting	120	120	120

Note: This information is provided by the applicant.

2.9.Duty Cycle of Test Signal

Refer to section 10: Appendix B

Note:

1. Duty Cycle=On Time/Total Time×100%.
2. Duty Factor=10×LOG(1/Duty Cycle).
3. If duty cycle <98 %, the conducted average output power and average power spectral density should be add duty factor.
4. If duty cycle ≥98 %,the EUT is consider to be transmitting continuously,the conducted average output power and average power spectral density no need to add duty factor.
5. The on-time time is transmission duration(T).
6. The VBW Setting is use for RMS measurement in Unwanted Emissions and Band Edge(Above 1GHz) Test.

2.10. Test Equipment List

For AC power conducted emissions test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 12,23	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 12,23	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emissions test(9KHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	EST-E054	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test(30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA9120D	EST-E144	LISAI	June 12,23	1 Year
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 12,23	1 Year
Low Noise Amplifier	RF	TRLA-010180 G45N	EST-E142	LISAI	June 12,23	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

For connect EUT antenna terminal test

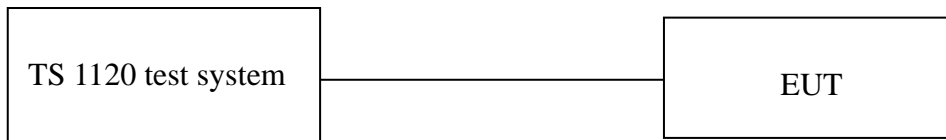
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.3.38	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 12,23	1 Year
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 12,23	1 Year

3.6dB BANDWIDTH & 26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH

3.1.Limit

Band	Frequency (MHz)	Test Item	Limit
U-NII-1	5150-5250	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2A	5250-5350	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-2C	5470-5725	26dB Bandwidth&99% Occupied Bandwidth	N/A
U-NII-3	5725-5850	6dB Bandwidth&99% Occupied Bandwidth	6dB Bandwidth≥500KHz

3.2.Test Setup



3.3.Spectrum Analyzer Setting

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	>RBW
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

3.4. Test Procedure

For 26dB Bandwidth Measurement :

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 3.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- e. Repeat above procedures until all modes and channels were measured.
- f. Record the results in the test report.

For 6dB Bandwidth Measurement :

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 3.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, 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 relative to the maximum level measured in the fundamental emission.
- e. Repeat above procedures until all modes and channels were measured.
- f. Record the results in the test report.

For 99% Occupied Bandwidth Measurement :

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 3.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- e. Repeat above procedures until all modes and channels were measured.
- f. Record the results in the test report.

3.5. Test Result

Refer to section 10: Appendix A1/A2/A3

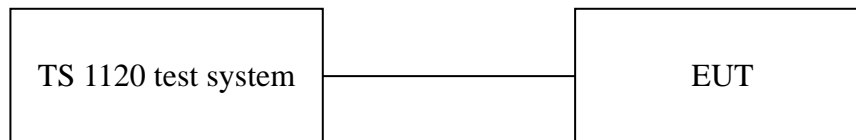
4. MAXIMUM CONDUCTED OUTPUT POWER

4.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	1W(30dBm) (Max. e.i.r.p \leq 125mW at any elevation angle above 30 degrees as measured from the horizon)
	Indoor Access Point	1W(30dBm)
	Fixed point-to-point Access Point	1W(30dBm)
	Mobile and Portable Client Device	250mW(23.98dBm)
U-NII-2A	All Device	250mW(23.98dBm) or 11dBm+10 log B, Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-2C	All Device	250mW(23.98dBm) or 11dBm+10 log B, Which is lesser. (B is 26dB Bandwidth in MHz)
U-NII-3	All Device	1W(30dBm)

Note: For the Band U-NII-2A and U-NII-2C, the maximum conducted output power limit calculate result refer to section 3.5.

4.2. Test Setup



4.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	3MHz
Span	40MHz(20MHz Bandwidth mode) 80MHz(40MHz Bandwidth mode) 160MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	RMS
Trace Mode	Max Hold

4.4.Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 4.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Use the channel power function to measure maximum peak output power, allow trace to stabilize,
save test pictures.
- e. Repeat above procedures until all modes and channels were measured.
- f. Record the results in the test report.

4.5.Test Result

Refer to section 10: Appendix C

5. PEAK POWER SPECTRAL DENSITY

5.1. Limit

Band	EUT Type	Limit
U-NII-1	Outdoor Access Point	17dBm/MHz
	Indoor Access Point	17dBm/MHz
	Fixed point-to-point Access Point	17dBm/MHz
	Mobile and Portable Client Device	11dBm/MHz
U-NII-2A	All Device	11dBm/MHz
U-NII-2C	All Device	11dBm/MHz
U-NII-3	All Device	30dBm/500KHz

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz(For U-NII-1&U-NII-2A&U-NII-2C) 500KHz(For U-NII-3)
VBW	3MHz(For U-NII-1&U-NII-2A&U-NII-2C) 2MHz(For U-NII-3)
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN} / \text{RBW}$
Detector	RMS(power averaging)
Trace Average	≥ 100 traces

5.4. Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 5.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, use the marker-to-peak function to set the marker to the average of the emission.
- e. If the duty cycle of test signal $< 98\%$, the result = max measured value + $10 \times \log(1/\text{duty cycle})$;
If the duty cycle of test signal $\geq 98\%$, the result = max measured value.
- f. Repeat above procedures until all modes and channels were measured.
- g. Record the results in the test report.

5.5. Test Result

Refer to section 10: Appendix D

6.UNWANTED EMISSIONS AND BAND EDGE

6.1.Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	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)

Note:

1. $\text{dB}\mu\text{V}/\text{m} = 20\text{Log}(\mu\text{V}/\text{m})$

2. Above 1GHz the formula is used to convert the EIRP to field strength

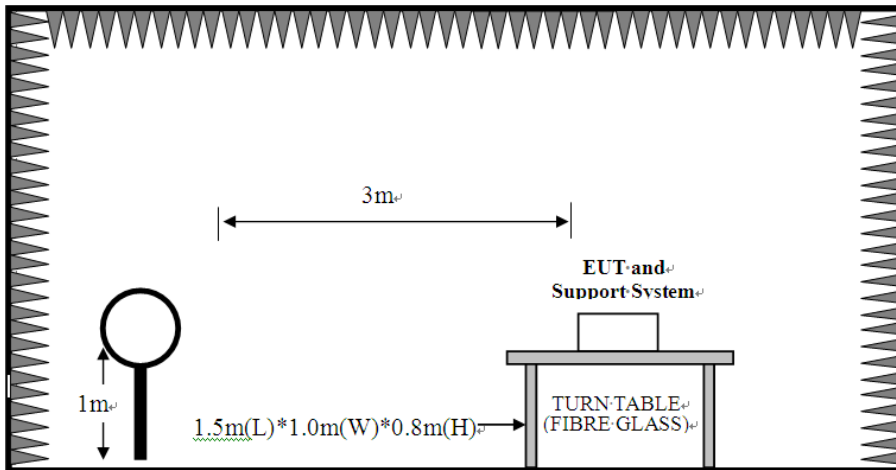
$$E[\text{dB}\mu\text{V}/\text{m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{m}]) + 104.77$$

where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.

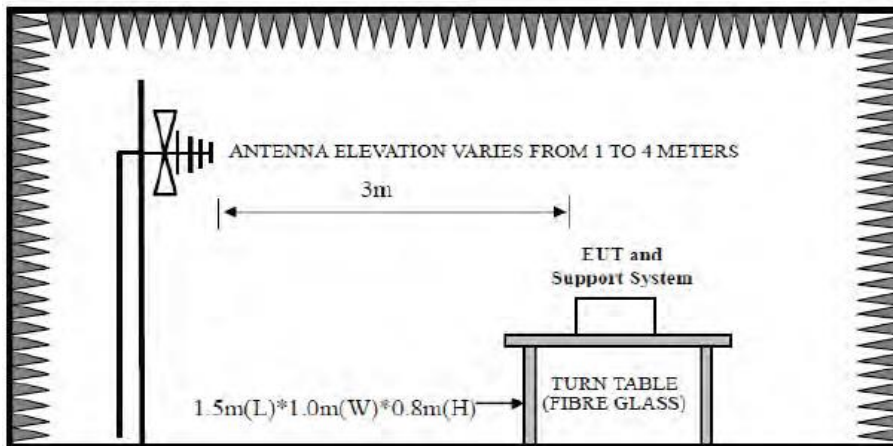
for example, 3m field strength($\text{dB}\mu\text{V}/\text{m}$)= $\text{EIRP} - 20\log(3) + 104.77 = \text{EIRP} + 95.2$

6.2. Test Setup

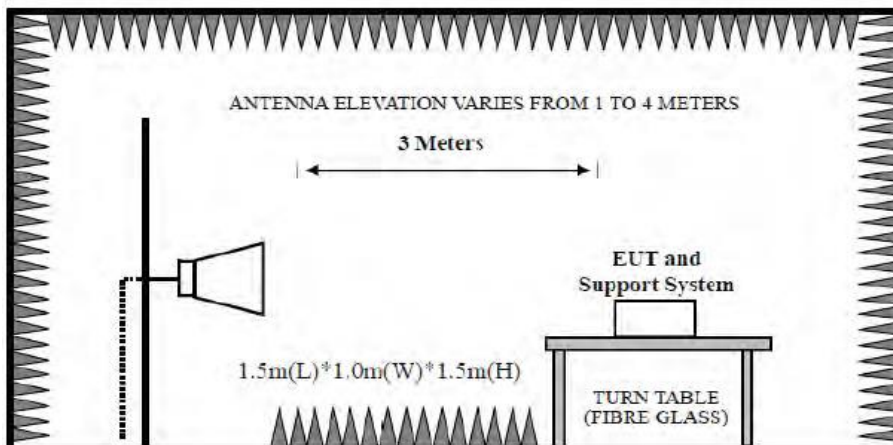
9kHz~30MHz



30~1000MHz



Above 1GHz



6.3.Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle \geq 98%,VBW=10Hz Duty cycle $<$ 98%,VBW \geq 1/T Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note : T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.7 for the on-time time.

6.4.Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 6.3.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

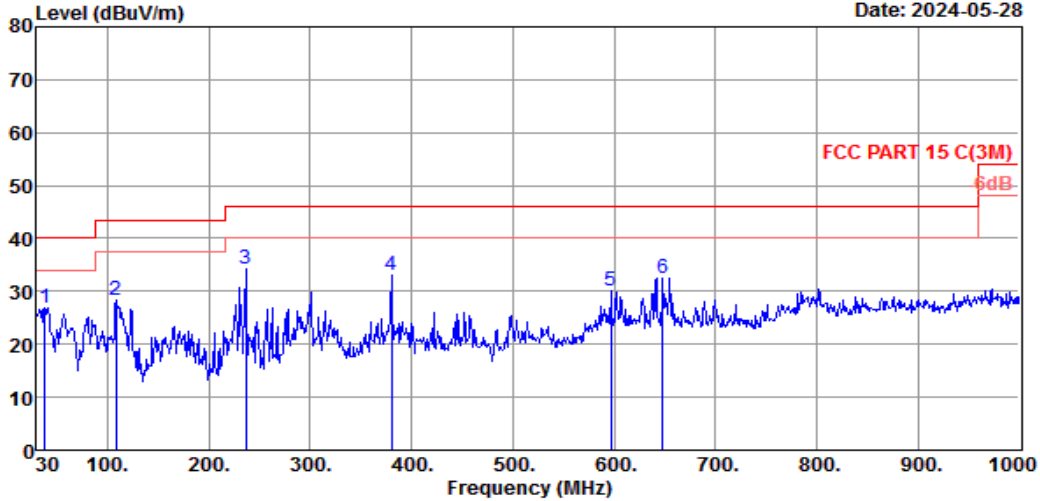
6.5.Test Result

Radiated Emissions Below 1GHz

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Data: 37 File: \\EMC-966-2\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (38) Date: 2024-05-28



Site no. : 2# 966 chamber Data no. : 37
 Dis. / Ant. : 3m 47018 Ant. pol. : VERTICAL
 Limit : FCC PART 15 C(3M)
 Env. / Ins. : Temp:25.5°C;Humi:59%;Press:101.32kPa
 Engineer : GBond
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : TX Mode

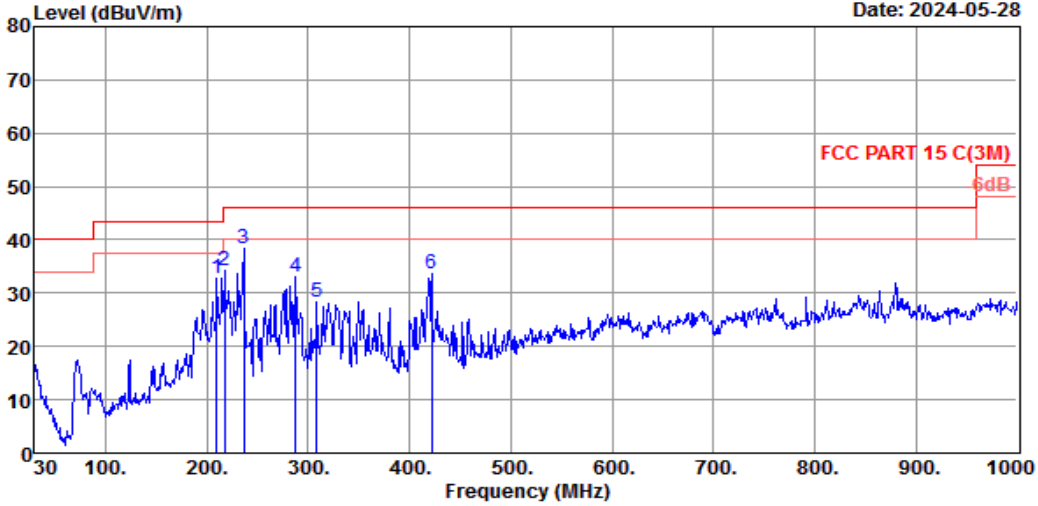
	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.76	13.00	0.64	13.19	26.83	40.00	13.17	QP
2	108.57	10.76	1.75	15.74	28.25	43.50	15.25	QP
3	236.61	11.46	1.89	20.77	34.12	46.00	11.88	QP
4	380.17	16.10	2.54	14.42	33.06	46.00	12.94	QP
5	596.48	20.36	3.29	6.38	30.03	46.00	15.97	QP
6	647.89	21.42	3.45	7.62	32.49	46.00	13.51	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 38 File: \\EMC-966-2\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (38) Date: 2024-05-28



Site no. : 2# 966 chamber Data no. : 38
 Dis. / Ant. : 3m 47018 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C(3M)
 Env. / Ins. : Temp:25.5°C;Humi:59%;Press:101.32kPa
 Engineer : GBond
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	9.08	1.77	21.77	32.62	43.50	10.88	QP
2	217.21	9.78	1.81	22.72	34.31	46.00	11.69	QP
3	236.61	11.46	1.89	24.96	38.31	46.00	7.69	QP
4	288.02	13.76	2.15	17.23	33.14	46.00	12.86	QP
5	308.39	14.10	2.26	12.11	28.47	46.00	17.53	QP
6	421.88	17.02	2.66	13.94	33.62	46.00	12.38	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All channels had been pre-test, only the worst case was reported.

Radiated Emissions Above 1G

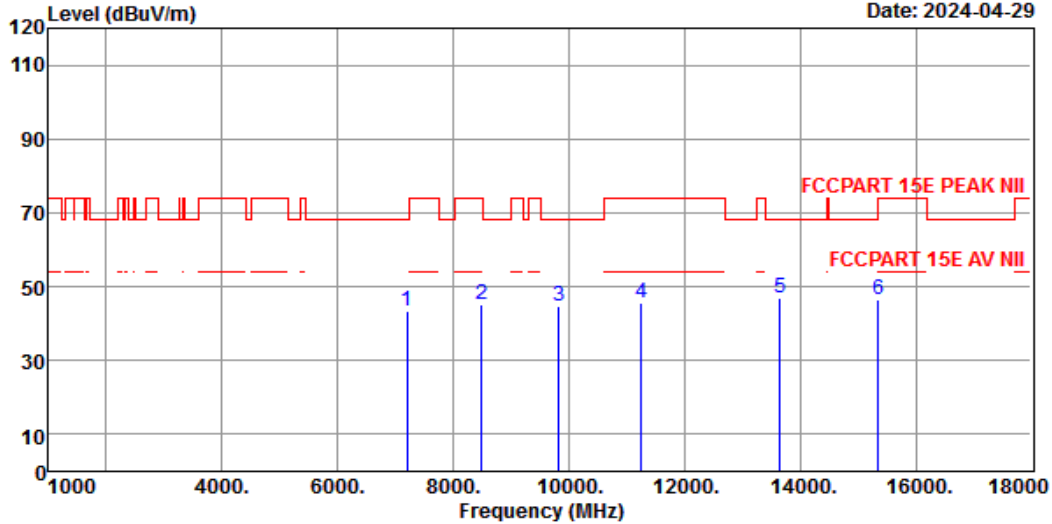
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Data: 133

File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



```

Site no.       : 1# 966 Chamber           Data no.  : 133
Dis. / Ant.   : 3m  BBHA9120D-2667      Ant. pol. : VERTICAL
Limit         : FCCPART 15E PEAK NII
Env. / Ins.   : Temp:21.5°C;Humi:51%;Press:101.52kPa
Engineer      : ZQL
EUT           : Label Printer
Power         : DC 24V From Adapter Input AC 120V/60Hz
M/N           : PM-344-WF
Test Mode     : IEEE 802.11a TX 5180MHz
    
```

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7205.00	36.16	6.67	44.08	44.77	43.52	68.20	24.68	Peak
2	8497.00	37.40	7.34	43.71	44.18	45.21	74.00	28.79	Peak
3	9823.00	38.16	7.77	43.73	42.60	44.80	68.20	23.40	Peak
4	11251.00	38.87	8.40	42.80	41.19	45.66	74.00	28.34	Peak
5	13648.00	39.89	9.59	40.80	38.27	46.95	68.20	21.25	Peak
6	15348.00	38.91	10.38	43.58	40.90	46.61	68.20	21.59	Peak

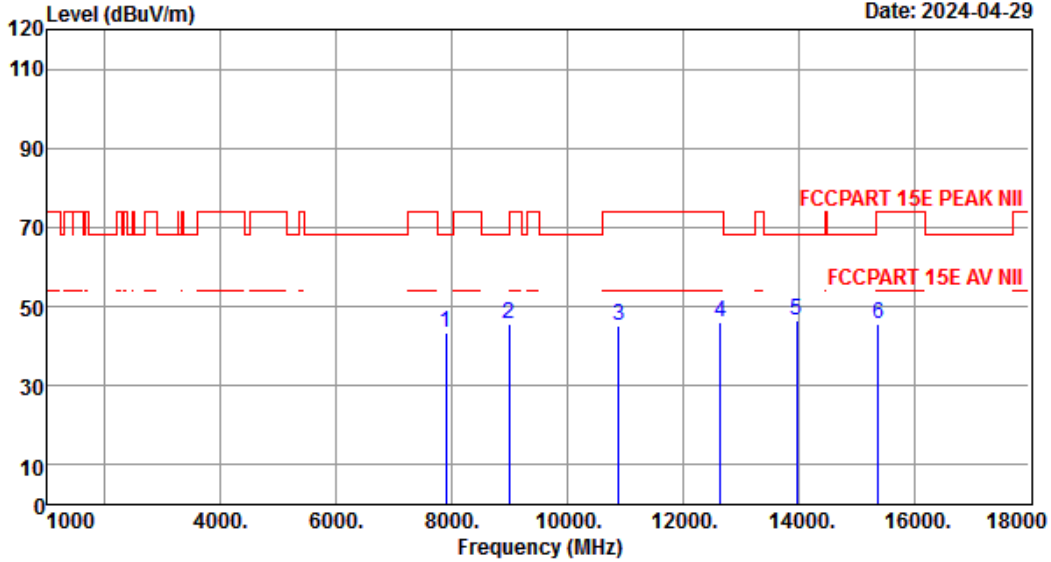
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 134 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 134
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5180MHz

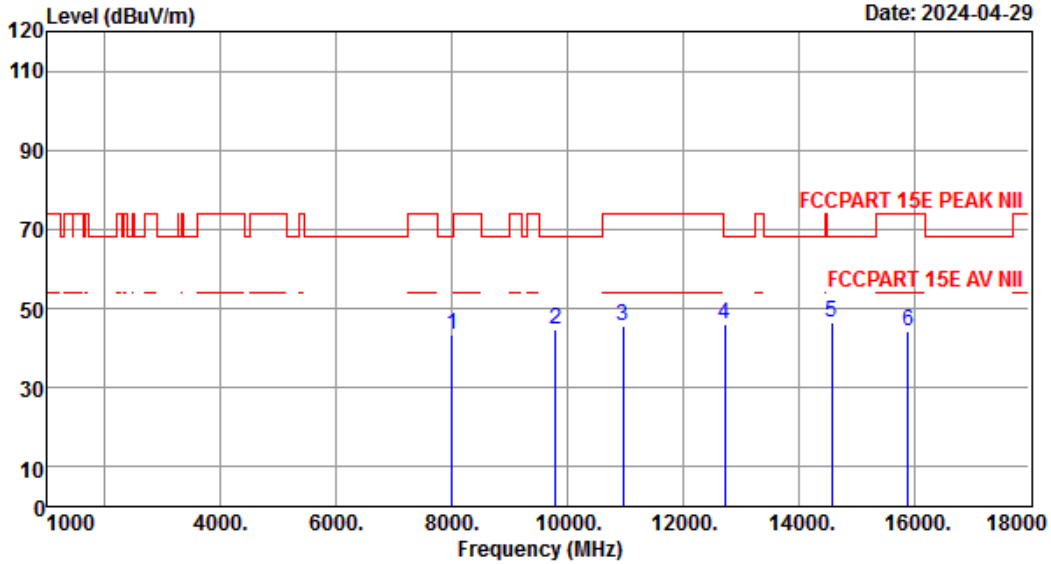
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7902.00	36.72	6.89	44.01	43.80	43.40	68.20	24.80	Peak
2	8990.00	37.99	7.77	43.41	43.45	45.80	68.20	22.40	Peak
3	10894.00	38.83	8.21	43.08	41.39	45.35	74.00	28.65	Peak
4	12645.00	39.38	9.11	41.30	38.75	45.94	74.00	28.06	Peak
5	13971.00	39.99	9.75	40.80	37.36	46.30	68.20	21.90	Peak
6	15382.00	38.85	10.40	43.60	39.81	45.46	74.00	28.54	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 135 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)



Site no. : 1# 966 Chamber Data no. : 135
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8004.00	36.80	6.92	44.00	43.62	43.34	68.20	24.86	Peak
2	9789.00	38.16	7.77	43.72	42.36	44.57	68.20	23.63	Peak
3	10962.00	38.87	8.24	43.03	41.60	45.68	74.00	28.32	Peak
4	12730.00	39.46	9.14	41.18	38.51	45.93	68.20	22.27	Peak
5	14583.00	39.71	10.05	42.24	38.94	46.46	68.20	21.74	Peak
6	15892.00	37.98	10.60	44.02	39.90	44.46	74.00	29.54	Peak

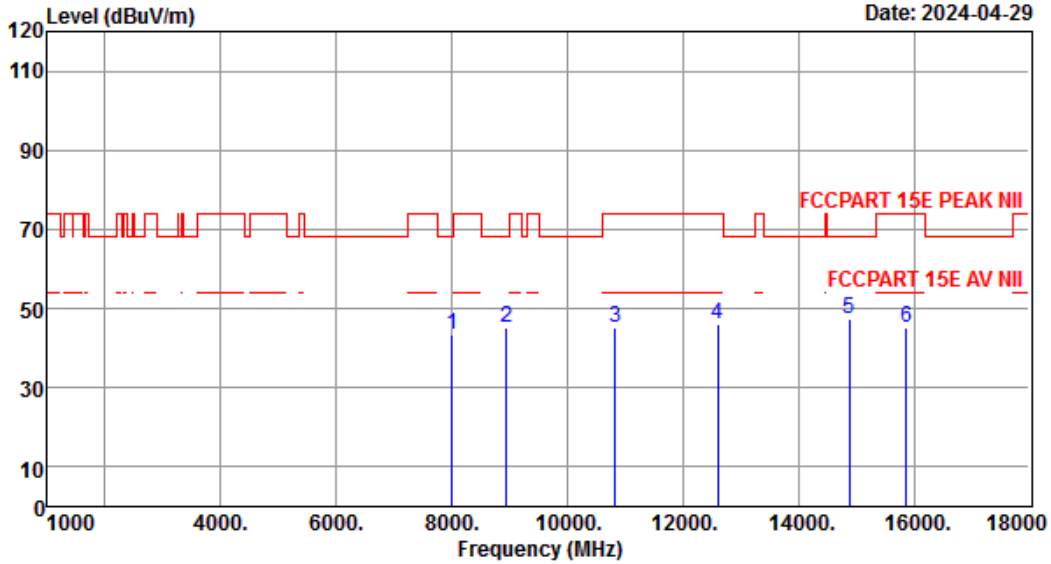
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 136 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 136
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8004.00	36.80	6.92	44.00	43.62	43.34	68.20	24.86	Peak
2	8939.00	37.93	7.72	43.44	42.93	45.14	68.20	23.06	Peak
3	10826.00	38.78	8.18	43.14	41.29	45.11	74.00	28.89	Peak
4	12611.00	39.35	9.09	41.35	39.05	46.14	74.00	27.86	Peak
5	14889.00	39.56	10.19	43.00	40.51	47.26	68.20	20.94	Peak
6	15875.00	38.01	10.59	44.00	40.64	45.24	74.00	28.76	Peak

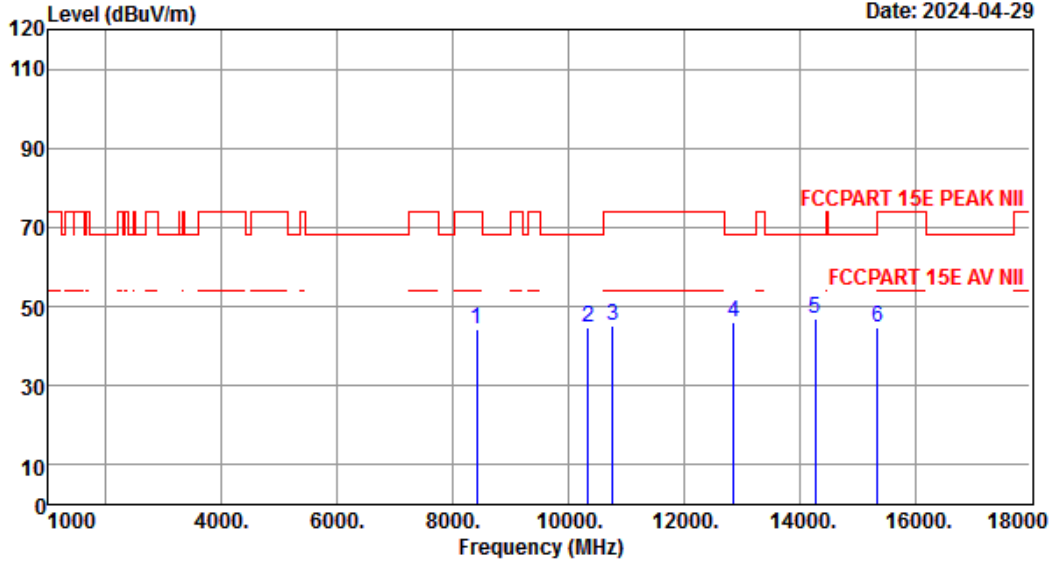
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 137 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 137
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8412.00	37.29	7.27	43.76	43.65	44.45	74.00	29.55	Peak
2	10350.00	38.44	7.94	43.52	41.95	44.81	68.20	23.39	Peak
3	10775.00	38.74	8.15	43.18	41.38	45.09	74.00	28.91	Peak
4	12866.00	39.58	9.20	40.99	38.39	46.18	68.20	22.02	Peak
5	14277.00	39.86	9.90	41.48	38.72	47.00	68.20	21.20	Peak
6	15348.00	38.91	10.38	43.58	39.17	44.88	68.20	23.32	Peak

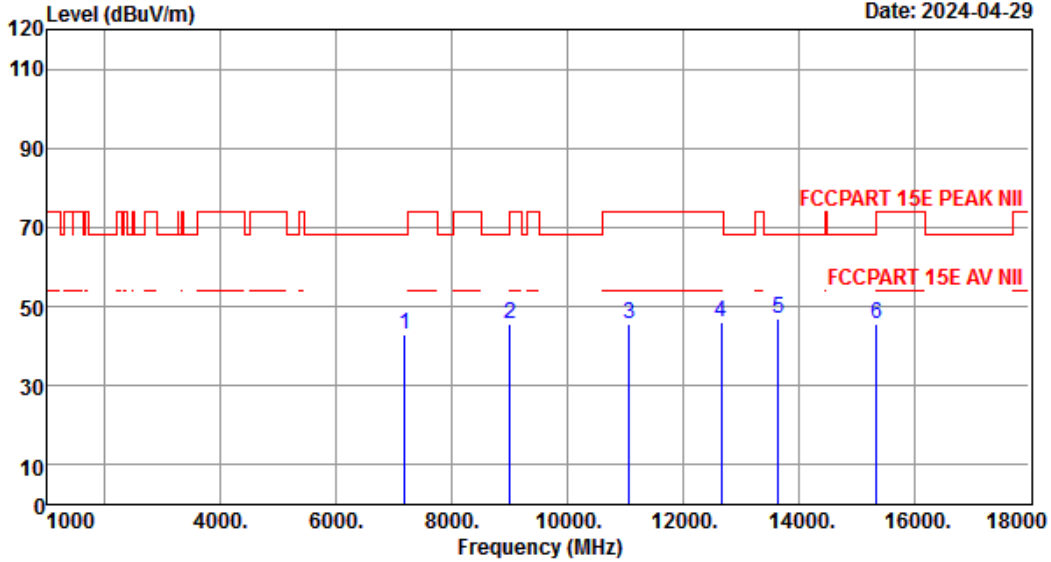
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 138 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 138
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7188.00	36.15	6.66	44.08	44.28	43.01	68.20	25.19	Peak
2	9007.00	38.00	7.78	43.40	43.04	45.42	74.00	28.58	Peak
3	11064.00	38.89	8.30	42.95	41.17	45.41	74.00	28.59	Peak
4	12662.00	39.40	9.11	41.27	39.03	46.27	74.00	27.73	Peak
5	13648.00	39.89	9.59	40.80	38.22	46.90	68.20	21.30	Peak
6	15348.00	38.91	10.38	43.58	39.87	45.58	68.20	22.62	Peak

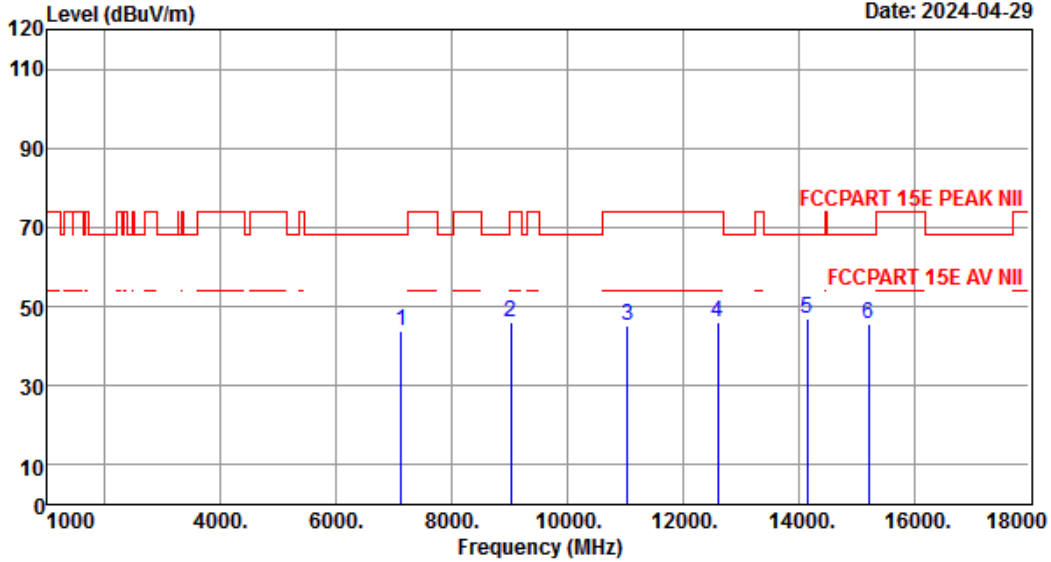
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 139 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 139
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7120.00	36.10	6.64	44.09	45.07	43.72	68.20	24.48	Peak
2	9024.00	38.00	7.78	43.41	43.62	45.99	74.00	28.01	Peak
3	11047.00	38.90	8.29	42.96	41.13	45.36	74.00	28.64	Peak
4	12611.00	39.35	9.09	41.35	39.05	46.14	74.00	27.86	Peak
5	14158.00	39.92	9.84	41.18	38.41	46.99	68.20	21.21	Peak
6	15212.00	39.14	10.33	43.47	39.64	45.64	68.20	22.56	Peak

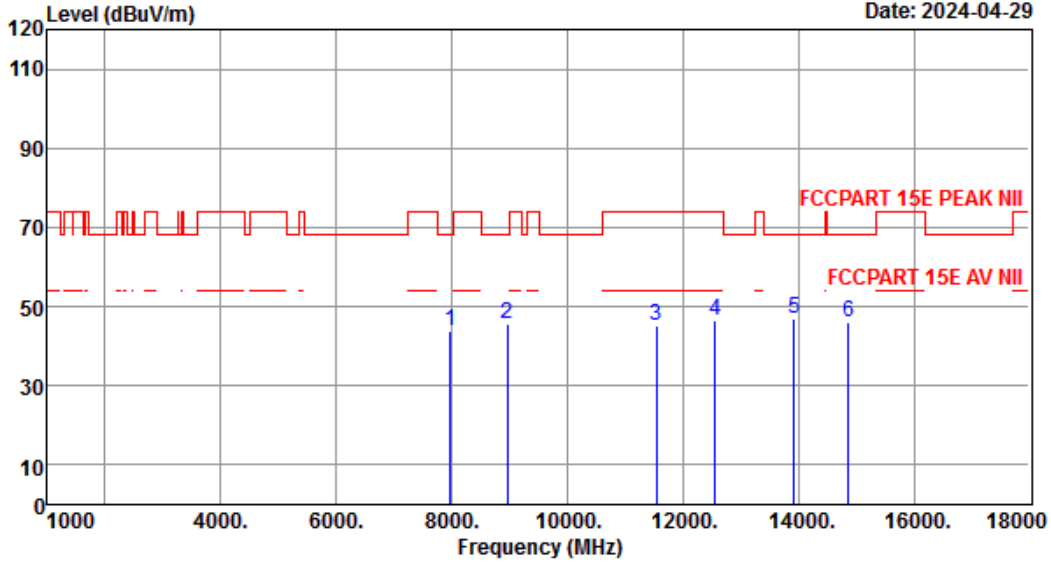
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 140 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 140
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5745MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7970.00	36.78	6.91	44.00	44.09	43.78	68.20	24.42	Peak
2	8956.00	37.95	7.74	43.43	43.30	45.56	68.20	22.64	Peak
3	11540.00	38.85	8.57	42.57	40.53	45.38	74.00	28.62	Peak
4	12560.00	39.30	9.07	41.42	39.55	46.50	74.00	27.50	Peak
5	13920.00	39.98	9.73	40.80	38.08	46.99	68.20	21.21	Peak
6	14872.00	39.56	10.18	42.96	39.26	46.04	68.20	22.16	Peak

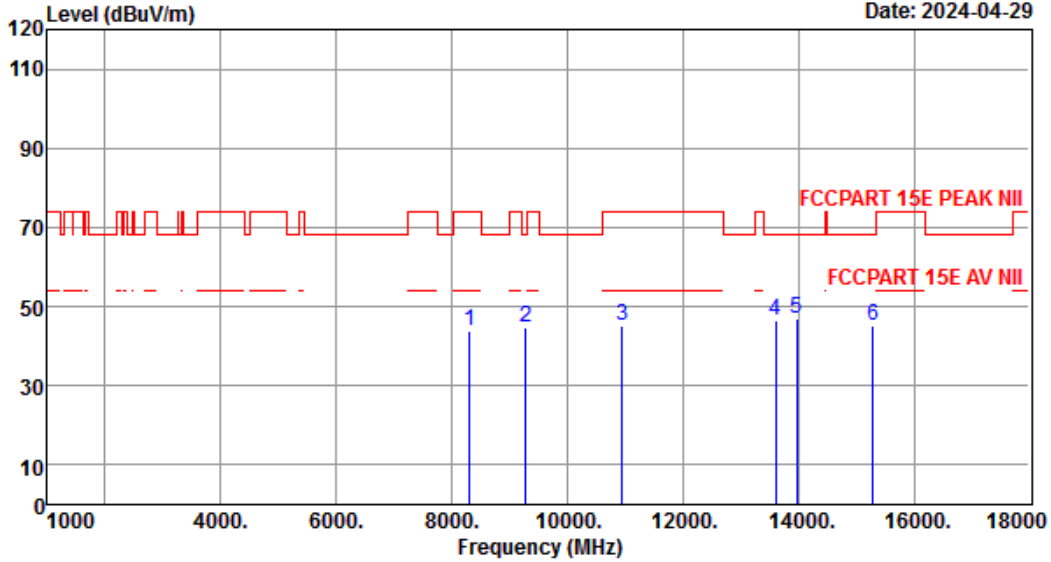
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 141 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 141
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5785MHz

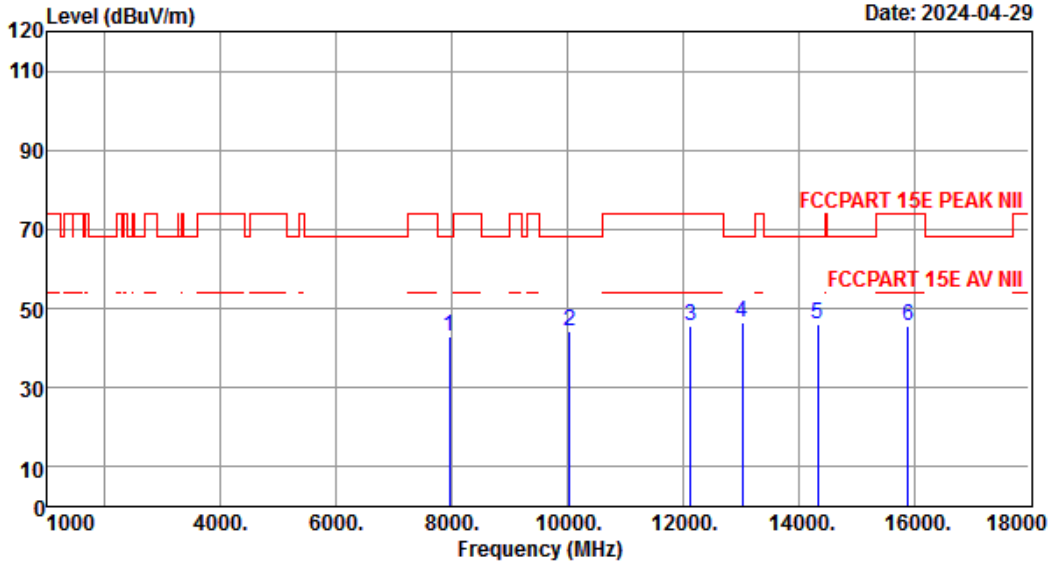
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8310.00	37.17	7.18	43.82	43.24	43.77	74.00	30.23	Peak
2	9279.00	38.06	7.78	43.51	42.50	44.83	68.20	23.37	Peak
3	10945.00	38.86	8.24	43.04	41.03	45.09	74.00	28.91	Peak
4	13614.00	39.88	9.57	40.80	37.88	46.53	68.20	21.67	Peak
5	13971.00	39.99	9.75	40.80	38.16	47.10	68.20	21.10	Peak
6	15297.00	39.00	10.36	43.53	39.37	45.20	68.20	23.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 142 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)



Site no. : 1# 966 Chamber Data no. : 142
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5785MHz

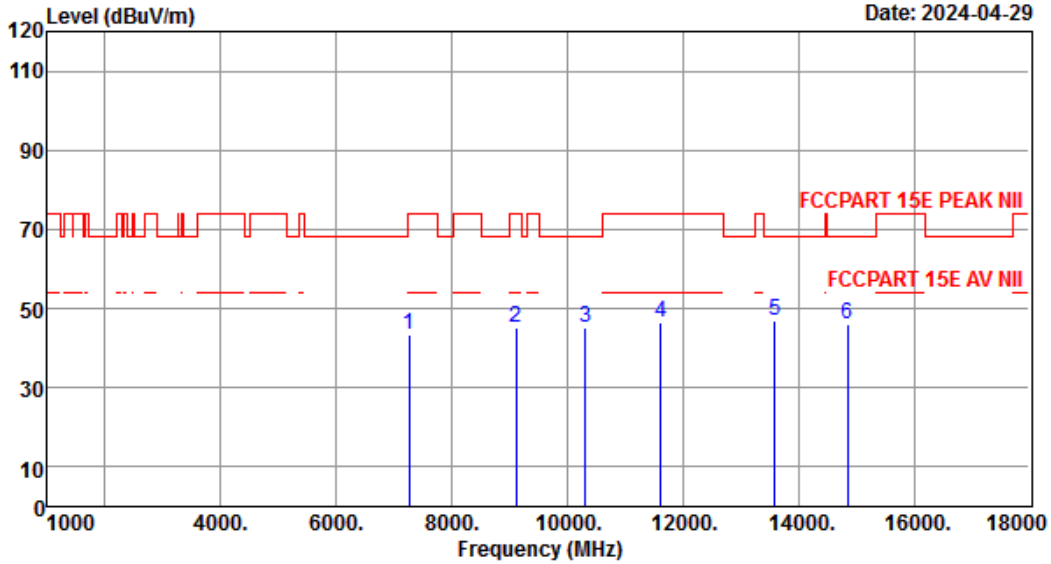
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7953.00	36.76	6.90	44.01	43.47	43.12	68.20	25.08	Peak
2	10044.00	38.23	7.79	43.76	42.05	44.31	68.20	23.89	Peak
3	12135.00	38.92	8.89	42.01	39.76	45.56	74.00	28.44	Peak
4	13036.00	39.71	9.28	40.80	38.25	46.44	68.20	21.76	Peak
5	14328.00	39.84	9.92	41.61	37.85	46.00	68.20	22.20	Peak
6	15892.00	37.98	10.60	44.02	40.98	45.54	74.00	28.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 143 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)



Site no. : 1# 966 Chamber Data no. : 143
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5825MHz

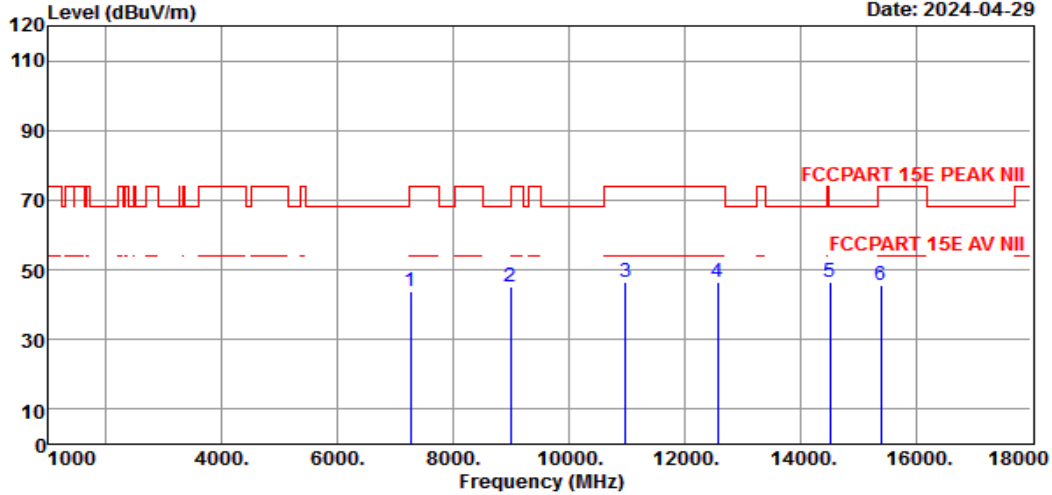
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7256.00	36.20	6.68	44.07	44.37	43.18	74.00	30.82	Peak
2	9109.00	38.02	7.78	43.44	42.83	45.19	74.00	28.81	Peak
3	10316.00	38.42	7.93	43.54	42.24	45.05	68.20	23.15	Peak
4	11625.00	38.84	8.62	42.50	41.48	46.44	74.00	27.56	Peak
5	13597.00	39.88	9.56	40.80	38.34	46.98	68.20	21.22	Peak
6	14855.00	39.57	10.18	42.92	39.32	46.15	68.20	22.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 144 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)



Site no. : 1# 966 Chamber Data no. : 144
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5825MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7256.00	36.20	6.68	44.07	45.19	44.00	74.00	30.00	Peak
2	8990.00	37.99	7.77	43.41	42.91	45.26	68.20	22.94	Peak
3	10979.00	38.89	8.25	43.01	42.37	46.50	74.00	27.50	Peak
4	12577.00	39.32	9.08	41.39	39.61	46.62	74.00	27.38	Peak
5	14515.00	39.74	10.01	42.07	38.67	46.35	68.20	21.85	Peak
6	15399.00	38.82	10.40	43.62	39.93	45.53	74.00	28.47	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

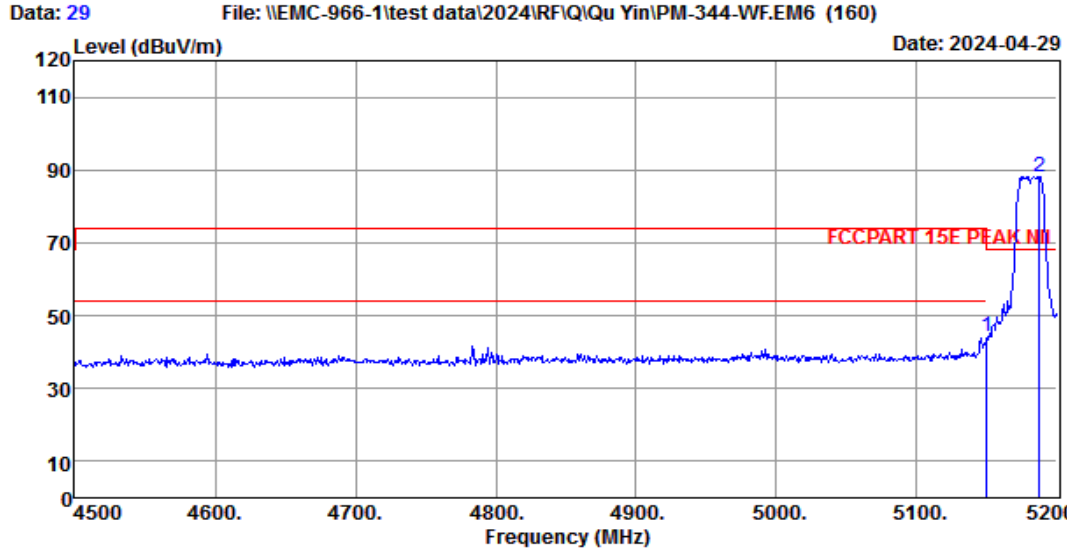
Note:

- The amplitude of 18GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
- All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported

Band Edge

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Site no. : 1# 966 Chamber Data no. : 29
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5180MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	32.97	5.52	44.27	50.14	44.36	68.20	23.84	Peak
2	5187.40	33.01	5.55	44.26	93.96	88.26	68.20	-20.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

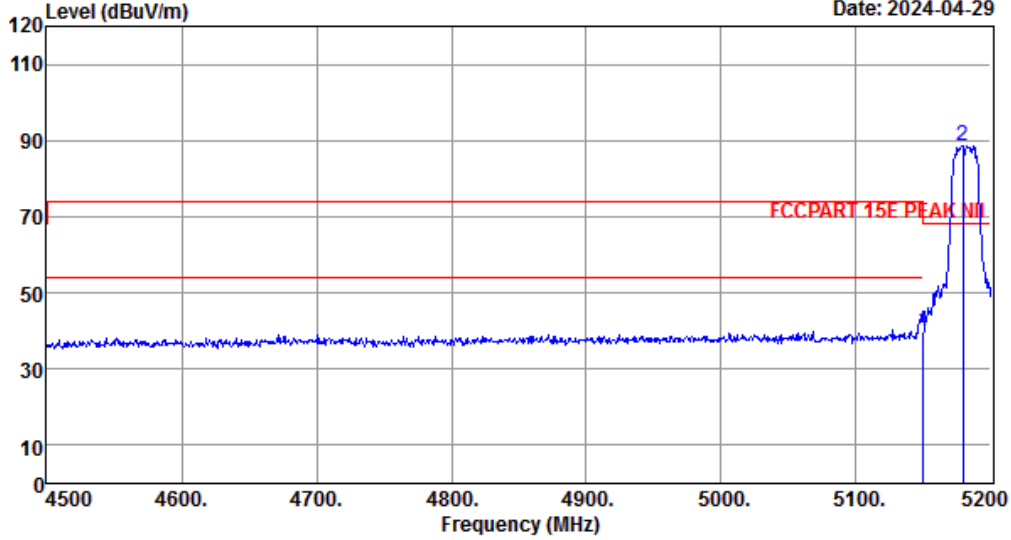
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Data: 30

File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 30
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5180MHz

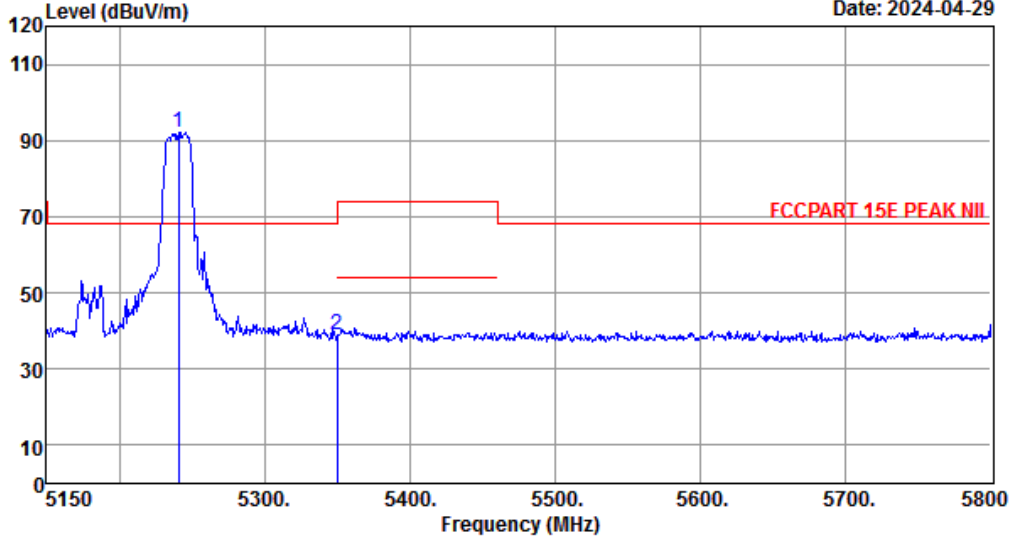
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	32.97	5.52	44.27	45.56	39.78	68.20	28.42	Peak
2	5179.00	33.00	5.55	44.26	94.44	88.73	68.20	-20.53	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 31 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160) Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 31
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5241.00	33.07	5.59	44.25	97.82	92.23	68.20	-24.03	Peak
2	5350.00	33.19	5.68	44.23	44.25	38.89	68.20	29.31	Peak

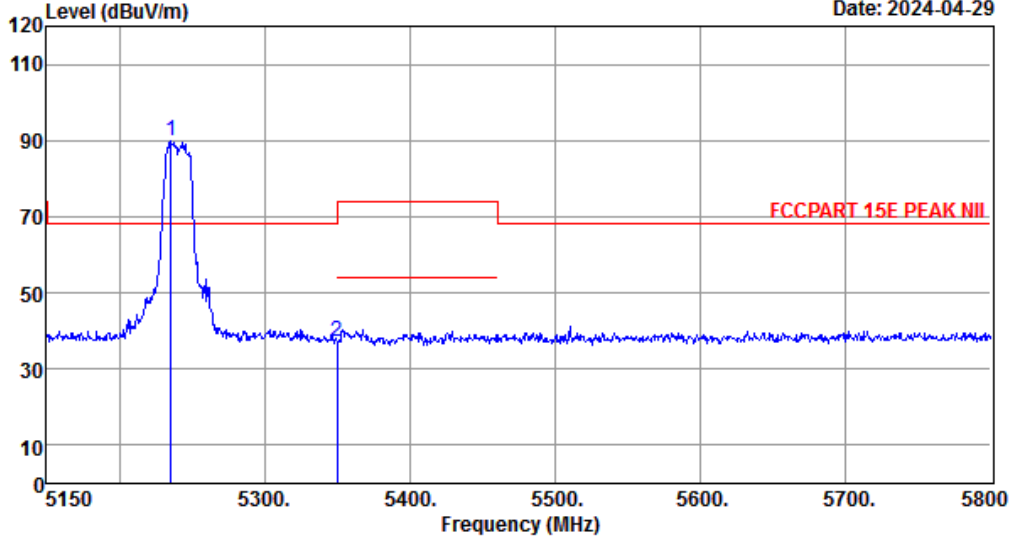
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Data: 32 File: \\EMC-966-1\test data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (160)

Date: 2024-04-29



Site no. : 1# 966 Chamber Data no. : 32
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:21.5°C;Humi:51%;Press:101.52kPa
 Engineer : ZQL
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : IEEE 802.11a TX 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5235.80	33.06	5.59	44.25	95.65	90.05	68.20	-21.85	Peak
2	5350.00	33.19	5.68	44.23	42.76	37.40	68.20	30.80	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Band 4

Refer to section 10: Appendix E

18000MHz-40000MHz

Pass

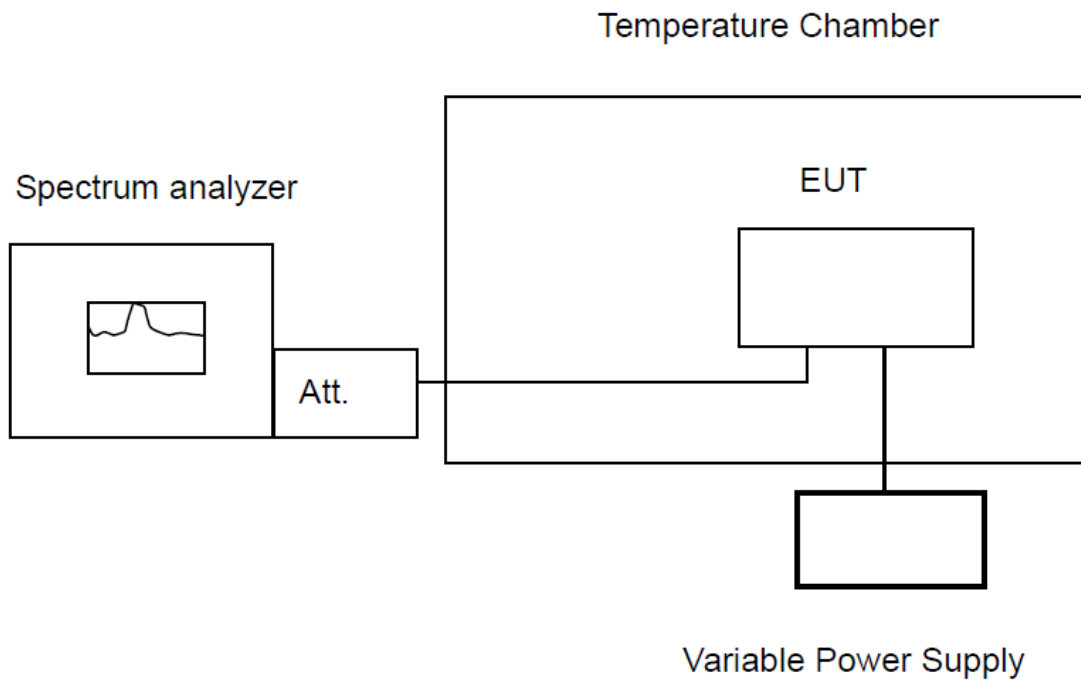
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

7.FREQUENCY STABILITY

7.1.Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

7.2.Test Setup



7.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

7.4.Test Procedure

For measurement frequency stability under temperature variation :

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
- h. Repeat step d through step f to measured the temperature form -20°C to $+50^{\circ}\text{C}$ in 10°C steps.

For frequency stability under voltage variation:

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature ($+15^{\circ}\text{C}$ to $+25^{\circ}\text{C}$) and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency.
- h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

7.5.Test Result

Refer to section 10: Appendix F

8.AC POWER LINE CONDUCTED EMISSIONS

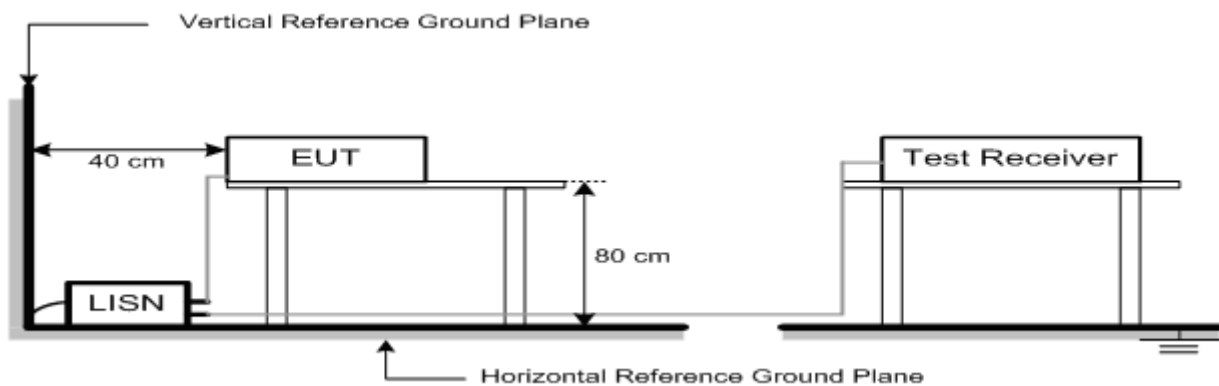
8.1.Limit

Frequency			Maximum RF Line Voltage	
			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz	~	500kHz	66 ~ 56*	56 ~ 46*
500kHz	~	5MHz	56	46
5MHz	~	30MHz	60	50

Notes:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

8.2.Test Setup



8.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

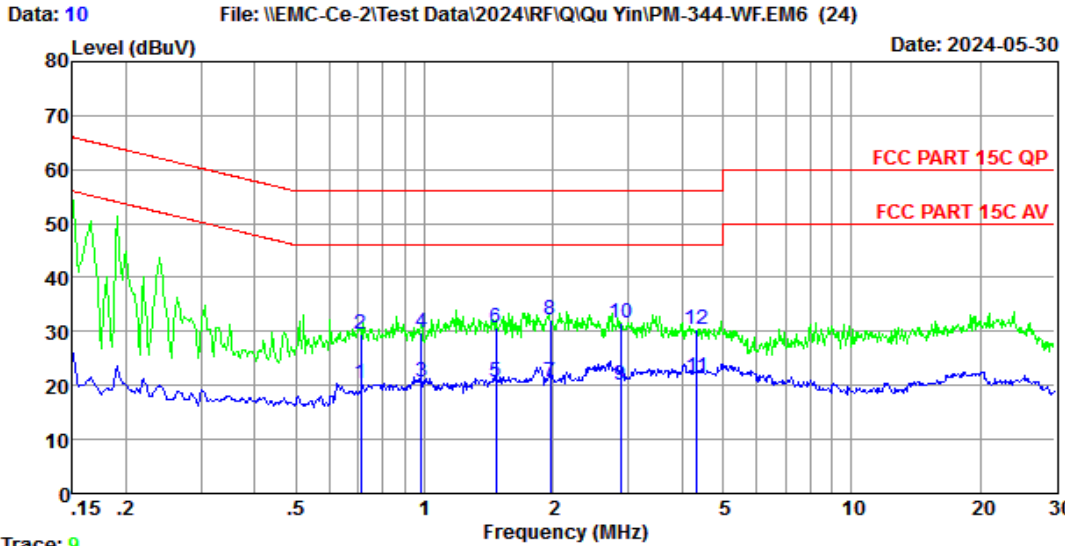
8.4.Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 8.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

8.5.Test Result

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Trace: 9
 Site no : 2#CE Shield Room Data no. : 10
 Env. / Ins. : Temp:24.8°C Humi:55% Press:101.50kPa LINE Phase : LINE
 Limit : FCC PART 15C QP
 Engineer : Clare
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBUV	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.71	10.02	9.99	0.41	20.42	46.00	25.58	Average
2	0.71	10.02	9.99	9.64	29.65	56.00	26.35	QP
3	0.98	9.97	10.05	0.75	20.77	46.00	25.23	Average
4	0.98	9.97	10.05	9.85	29.87	56.00	26.13	QP
5	1.47	9.97	10.03	0.75	20.75	46.00	25.25	Average
6	1.47	9.97	10.03	10.63	30.63	56.00	25.37	QP
7	1.97	9.98	10.00	0.63	20.61	46.00	25.39	Average
8	1.97	9.98	10.00	12.33	32.31	56.00	23.69	QP
9	2.88	9.99	10.00	0.08	20.07	46.00	25.93	Average
10	2.88	9.99	10.00	11.49	31.48	56.00	24.52	QP
11	4.34	10.00	9.99	1.42	21.41	46.00	24.59	Average
12	4.34	10.00	9.99	10.53	30.52	56.00	25.48	QP

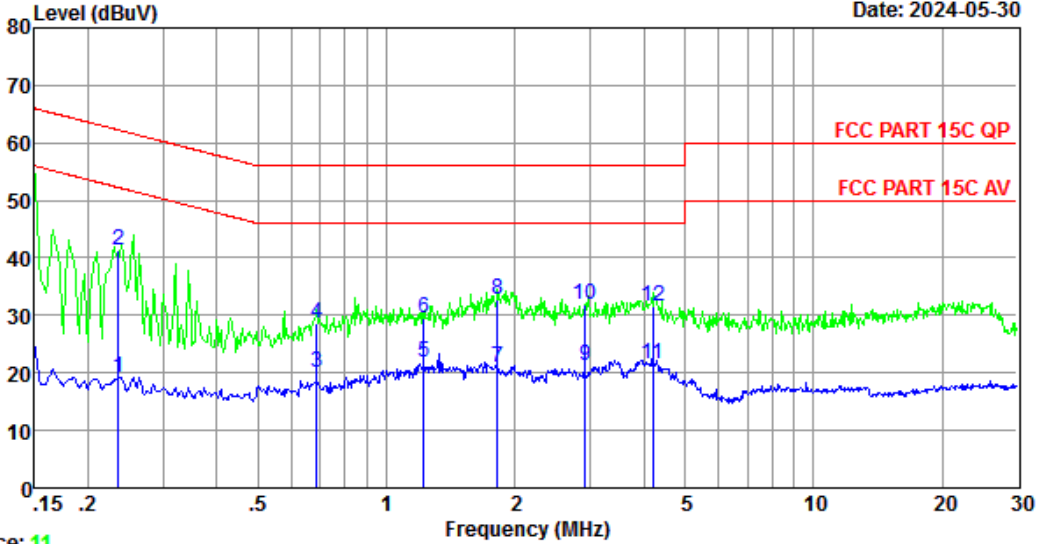
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

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Data: 12 File: \\EMC-Ce-2\Test Data\2024\RF\Q\Qu Yin\PM-344-WF.EM6 (24)

Date: 2024-05-30



Trace: 11

Site no : 2#CE Shield Room Data no. : 12
 Env. / Ins. : Temp:24.8°C Humi:55% Press:101.50kPa LINE Phase : NEUTRAL
 Limit : FCC PART 15C QP
 Engineer : Clare
 EUT : Label Printer
 Power : DC 24V From Adapter Input AC 120V/60Hz
 M/N : PM-344-WF
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.24	10.16	9.95	-0.83	19.28	52.26	32.98	Average
2	0.24	10.16	9.95	21.36	41.47	62.26	20.79	QP
3	0.69	10.02	9.99	0.17	20.18	46.00	25.82	Average
4	0.69	10.02	9.99	8.60	28.61	56.00	27.39	QP
5	1.22	9.99	10.04	1.84	21.87	46.00	24.13	Average
6	1.22	9.99	10.04	9.63	29.66	56.00	26.34	QP
7	1.82	10.00	10.01	1.01	21.02	46.00	24.98	Average
8	1.82	10.00	10.01	12.63	32.64	56.00	23.36	QP
9	2.92	10.01	10.00	1.17	21.18	46.00	24.82	Average
10	2.92	10.01	10.00	11.85	31.86	56.00	24.14	QP
11	4.20	10.01	9.99	1.63	21.63	46.00	24.37	Average
12	4.20	10.01	9.99	11.64	31.64	56.00	24.36	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
 2. Margin= Limit - Emission Level.
 3. If the average limit is met when using a quasi-peak detector,
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

9.ANTENNA REQUIREMENTS

9.1.Limit

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2.Test Result

The antennas used for this product is internal antenna ,so compliance with antenna requirements. (Please refer to the EUT photo for details)

10.APPENDIX

Appendix A1: Emission Bandwidth Test Result

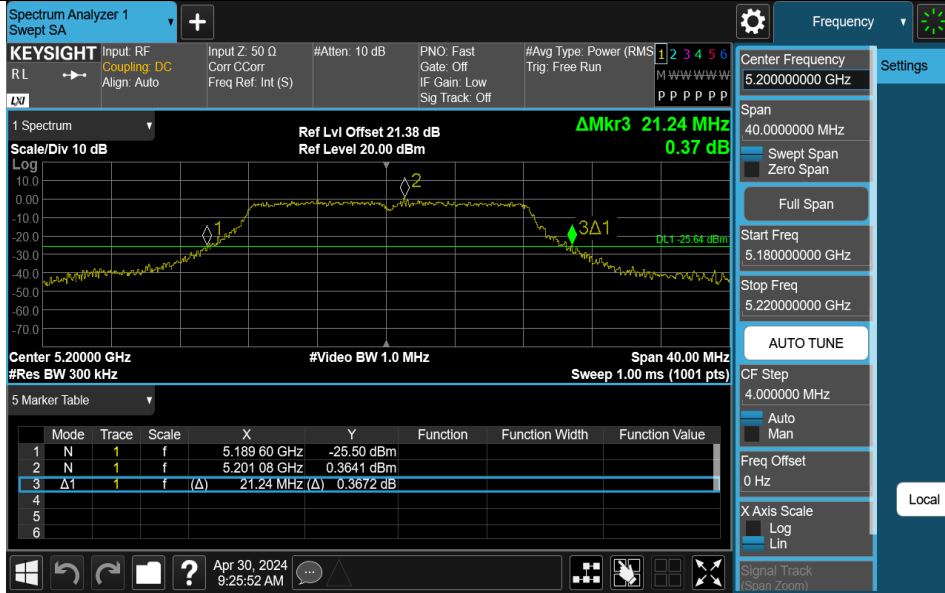
Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.280	5169.720	5191.000	---	---
11A	Ant1	5200	21.240	5189.600	5210.840	---	---
11A	Ant1	5240	21.800	5229.240	5251.040	---	---
11A	Ant1	5745	21.120	5734.520	5755.640	---	---
11A	Ant1	5785	21.360	5774.480	5795.840	---	---
11A	Ant1	5825	21.440	5814.280	5835.720	---	---

Test Graphs

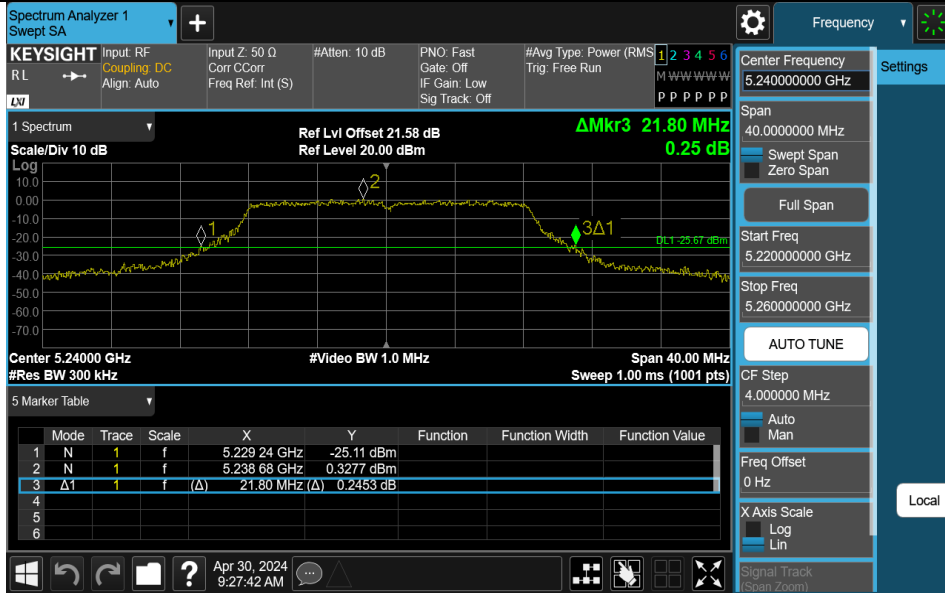
11A-Ant1-5180



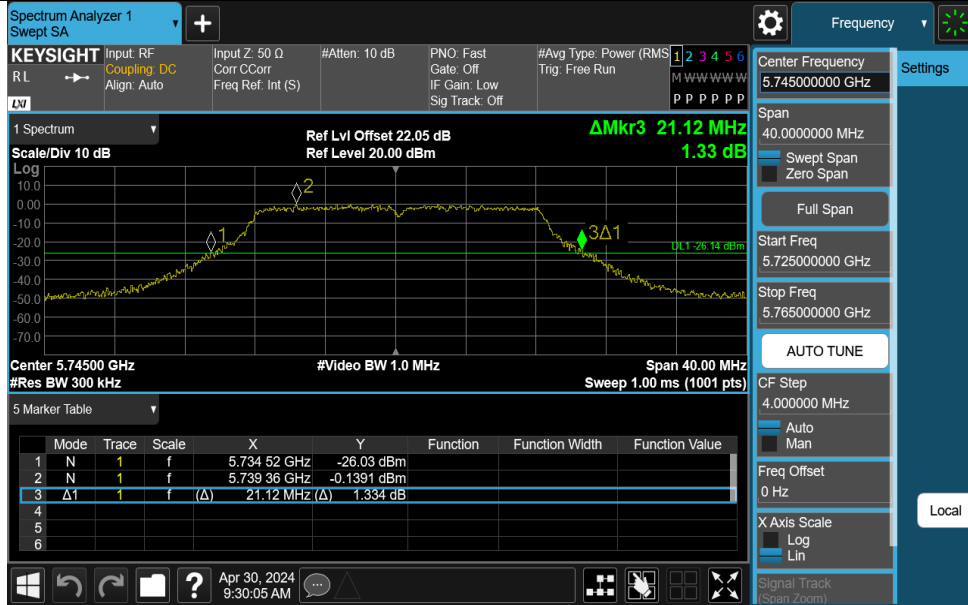
11A-Ant1-5200



11A-Ant1-5240



11A-Ant1-5745



11A-Ant1-5785



11A-Ant1-5825

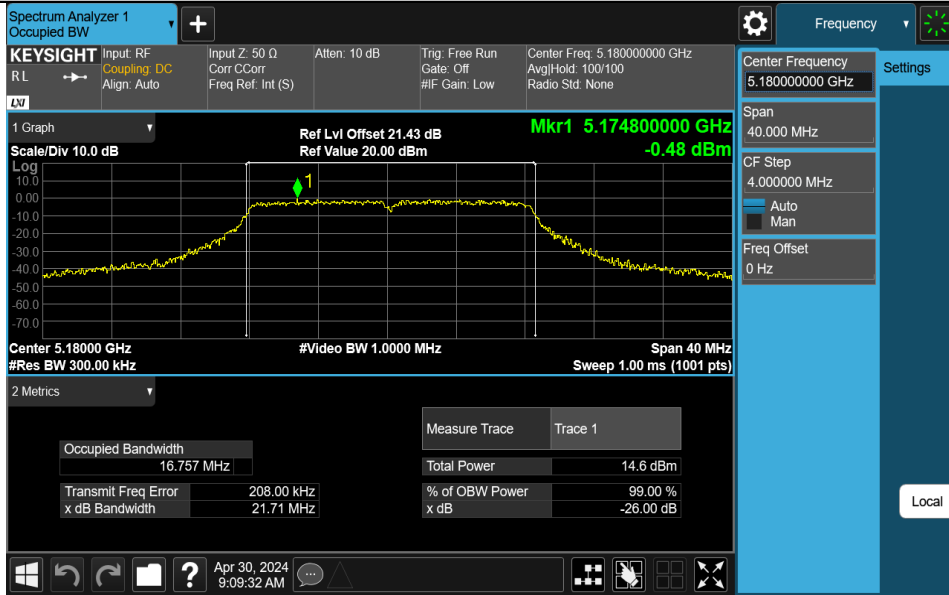


Appendix A2: Occupied channel bandwidth Test Result

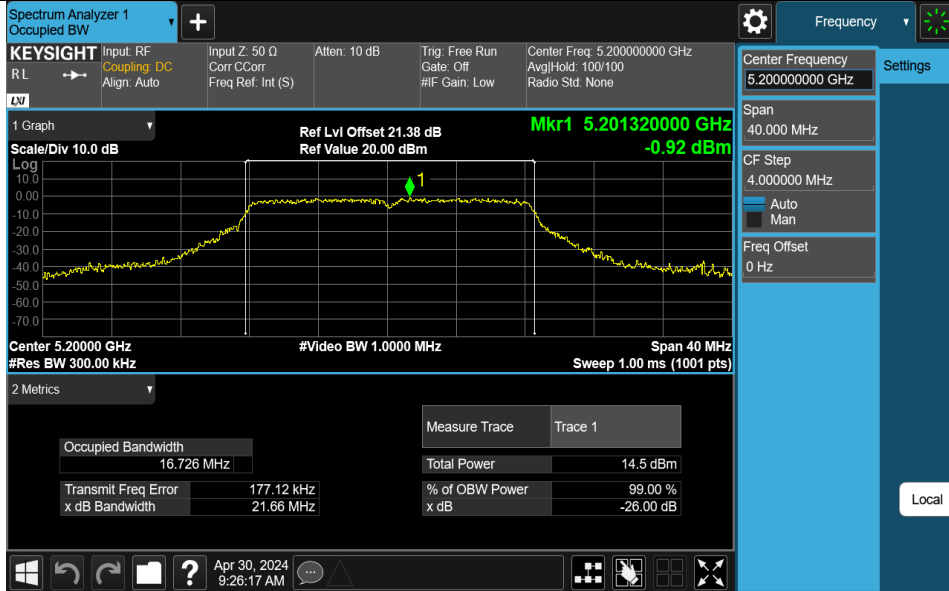
TestM ode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.757	5171.8295	5188.5865	---	---
11A	Ant1	5200	16.726	5191.8141	5208.5401	---	---
11A	Ant1	5240	16.809	5231.7761	5248.5851	---	---
11A	Ant1	5745	16.735	5736.8408	5753.5758	---	---
11A	Ant1	5785	16.799	5776.8006	5793.5996	---	---
11A	Ant1	5825	16.825	5816.7476	5833.5726	---	---

Test Graphs

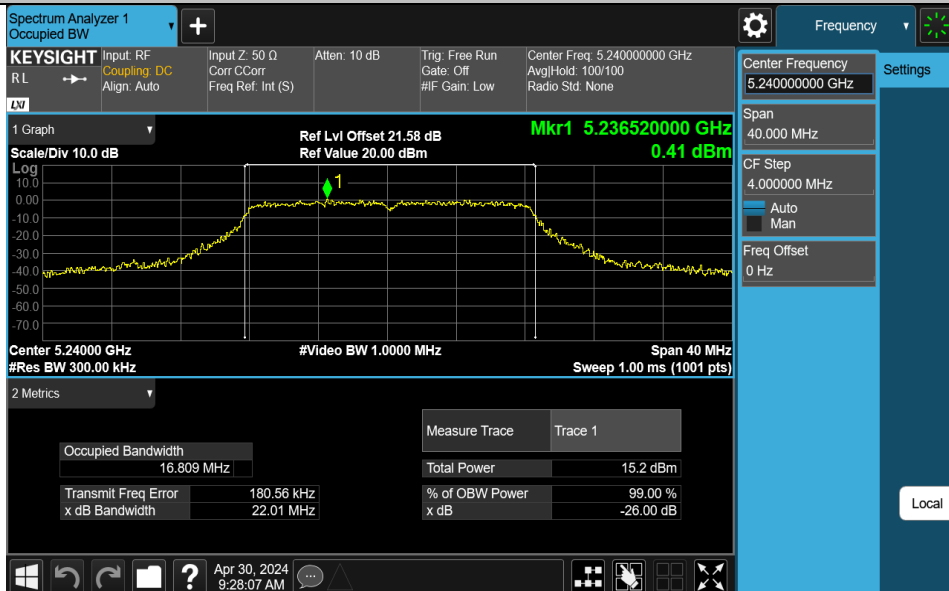
11A-Ant1-5180



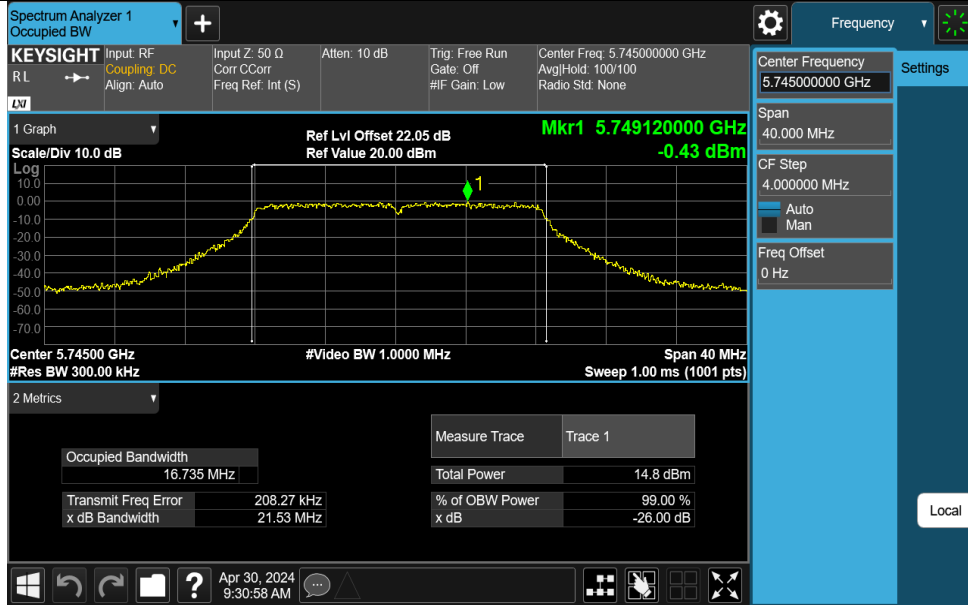
11A-Ant1-5200



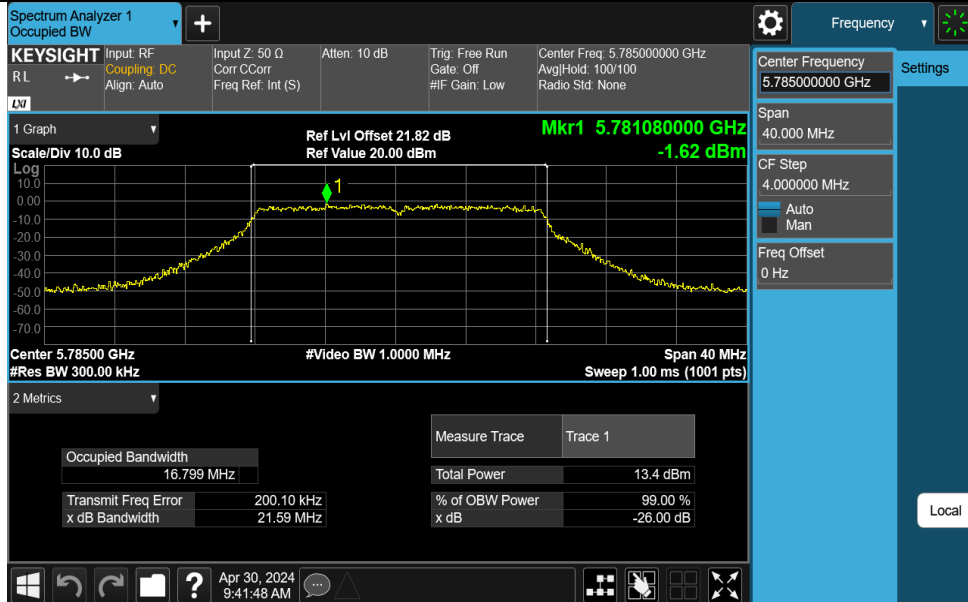
11A-Ant1-5240



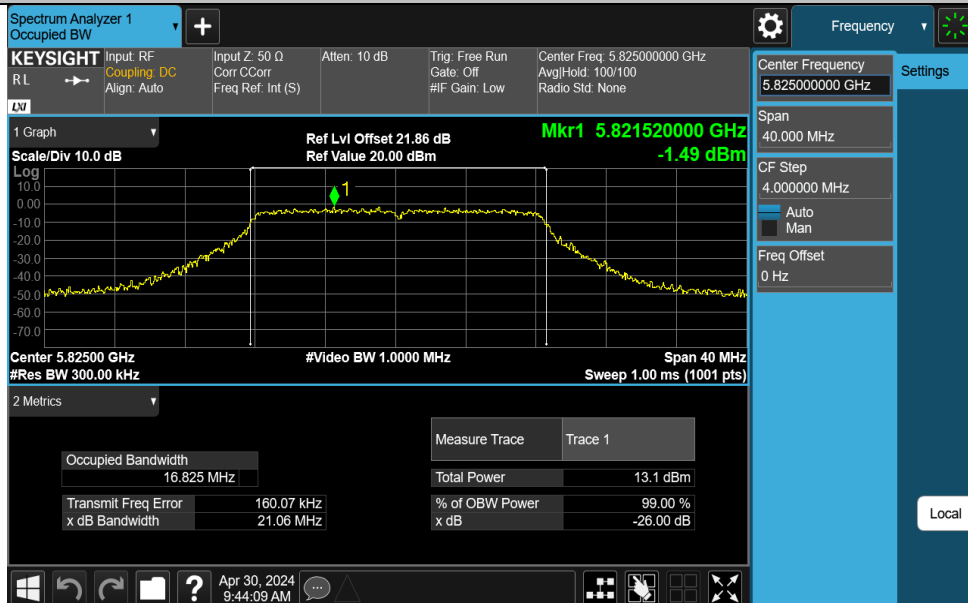
11A-Ant1-5745



11A-Ant1-5785



11A-Ant1-5825



Appendix A3: Min emission bandwidth
Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5737.000	5753.360	0.5	PASS
11A	Ant1	5785	16.360	5777.000	5793.360	0.5	PASS
11A	Ant1	5825	16.320	5817.040	5833.360	0.5	PASS

Test Graphs B4

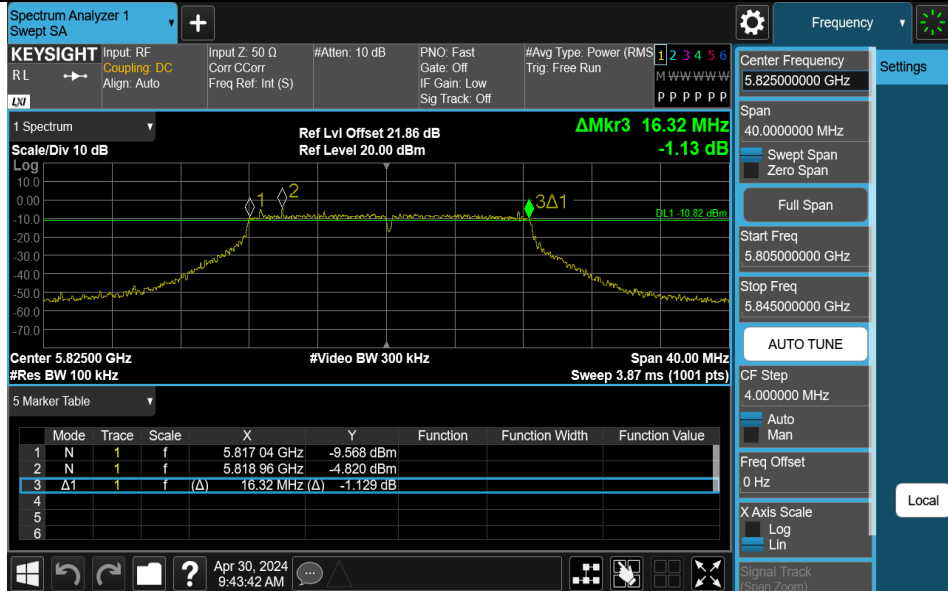
11A-Ant1-5745-PASS



11A-Ant1-5785-PASS



11A-Ant1-5825-PASS

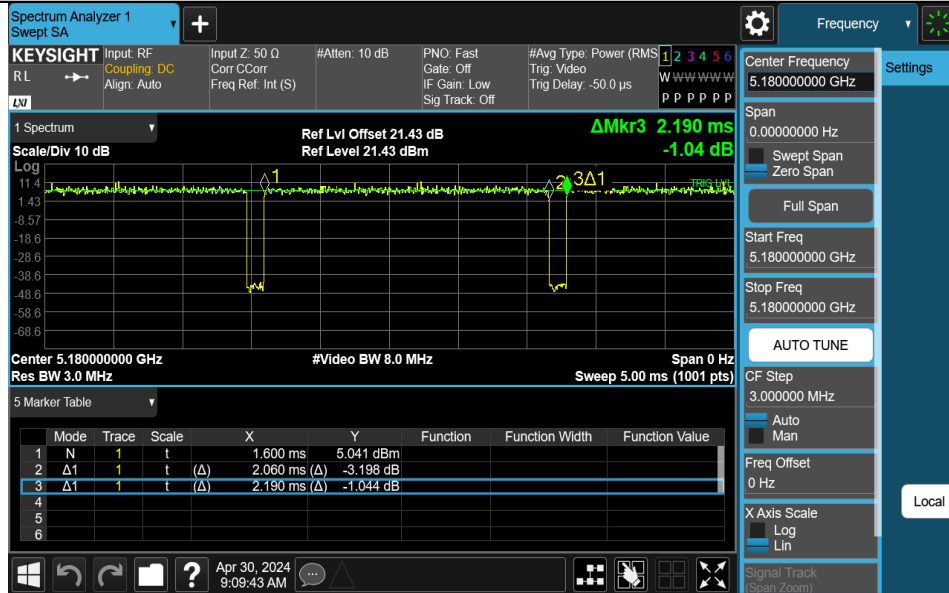


**Appendix B: Duty Cycle
Test Result**

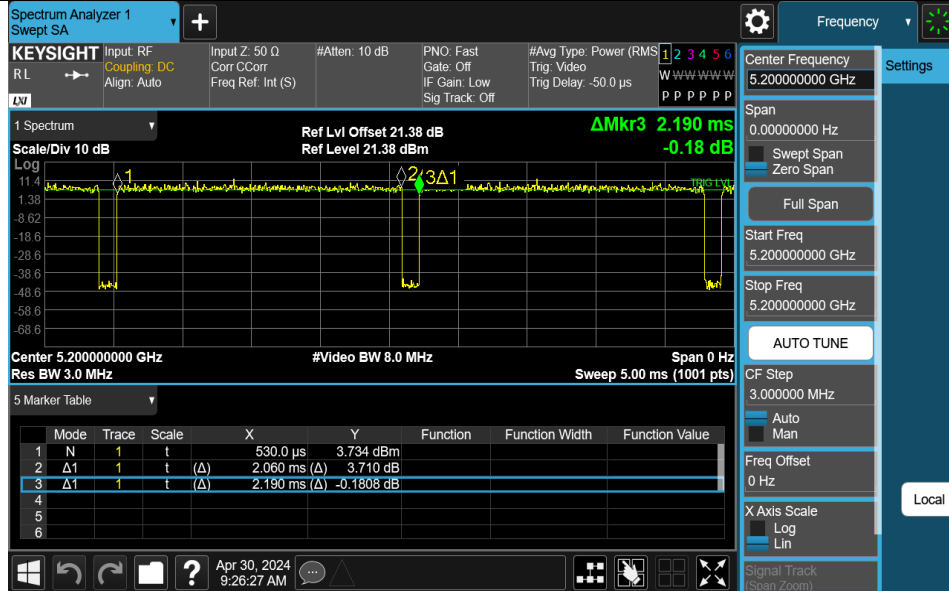
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.06	2.19	94.06
11A	Ant1	5200	2.06	2.19	94.06
11A	Ant1	5240	2.06	2.19	94.06
11A	Ant1	5745	2.06	2.19	94.06
11A	Ant1	5785	2.06	2.19	94.06
11A	Ant1	5825	2.07	2.20	94.09

Test Graphs

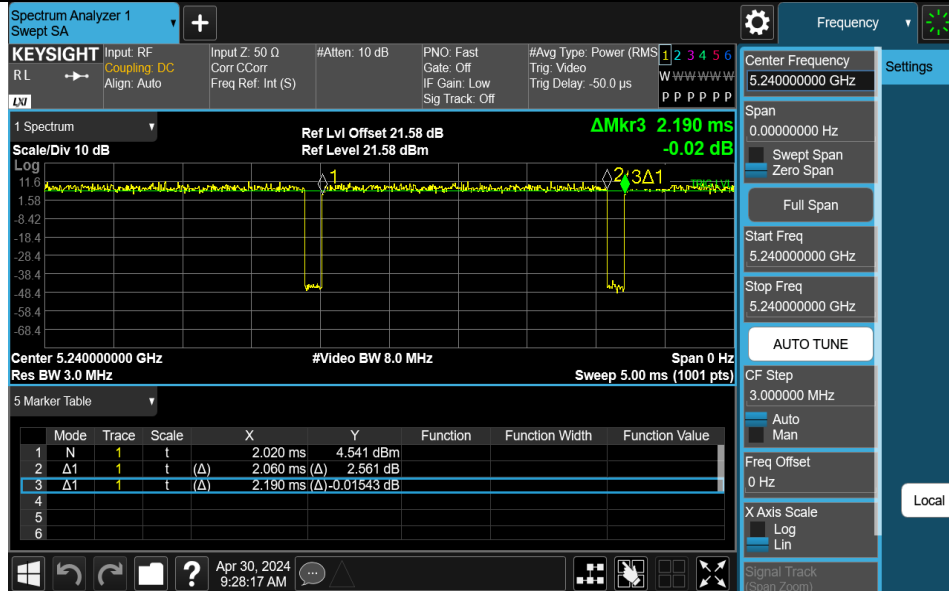
NTNV-11A-Ant1-5180



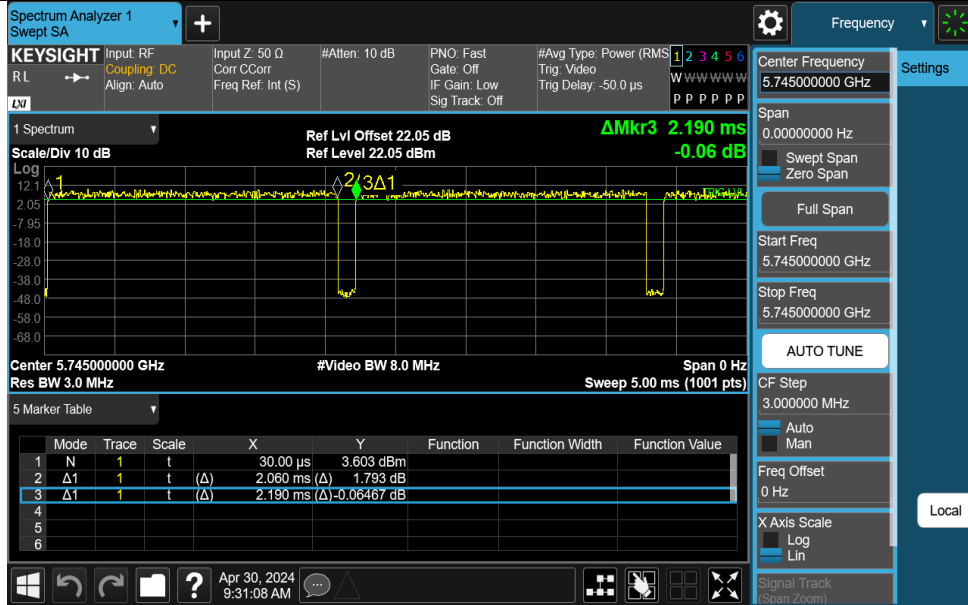
NTNV-11A-Ant1-5200



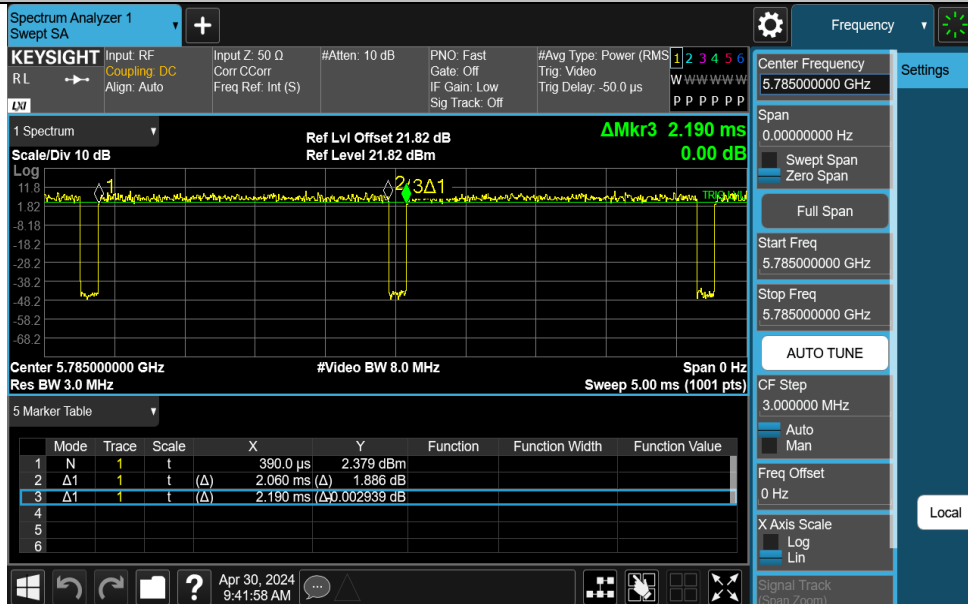
NTNV-11A-Ant1-5240



NTNV-11A-Ant1-5745



NTNV-11A-Ant1-5785



NTNV-11A-Ant1-5825

