

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Report Reference No......: **MAX25062815-P01R01**

FCC ID.....: **2A7LA-YI15K1**

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Date of issue: July 03, 2025

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Address: 1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

Applicant's name.....: **Shenzhen Yijing Technology Co., LTD.**

Address: 201, No. 141-2, Furui Road, Xintian Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, China

Test specification

FCC Part 15.247

Standard: **KDB558074 D01 15.247 Meas Guidance v05r02**

ANSI C63.10:2020

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Test item description: **Digital Smart Calendar**

Trade Mark: YIAISIGN

Manufacturer: Shenzhen Yijing Technology Co., LTD.

Model/Type reference: YI15K1

Listed Models: YI07K1, YI08K1, YI10K1, YI12K1, YI13K1, YI14K1, YI15K2, YI16K1, YI19K1, YI22K1, YI24K1, YI27K1, YI32K1, YI10K2

Modulation Type: DSSS/ OFDM

Operation Frequency: From 2412 - 2462MHz

Rating: DC12V from adapter AC120V/60Hz

Result: **PASS**

TEST REPORT

Equipment under Test : Digital Smart Calendar

Model /Type : YI15K1

Series Model No. YI07K1,YI08K1,YI10K1,YI12K1,YI13K1,YI14K1,YI15K2,YI16K1,
YI19K1,YI22K1,YI24K1,YI27K1,YI32K1,YI10K2

Model Declaration : All models covered in this report are the same with each other,
except for different model No. for trading purpose.

Applicant : **Shenzhen Yijing Technology Co., LTD.**

Address : 201, No. 141-2, Furui Road, Xintian Community, Fuhai Street,
Bao'an District, Shenzhen City, Guangdong Province,China

Manufacturer : **Shenzhen Yijing Technology Co., LTD.**

Address : 201, No. 141-2, Furui Road, Xintian Community, Fuhai Street,
Bao'an District, Shenzhen City, Guangdong Province,China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2020: American National Standard for Testing Unlicensed Wireless Devices

KDB558074 D01 v05r02: Guidance for Compliance Measurements on Digital Transmission Systems (DTS) ,Frequency Hopping Spread Spectrum System(HFSS), and Hybrid System Devices Operating Under §15.247 of The FCC rules.

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	June 19, 2025
Testing commenced on	:	June 19, 2025
Testing concluded on	:	July 03, 2025

2.2 Product Description

Product Name:	Digital Smart Calendar
Model/Type reference:	YI15K1,YI07K1,YI08K1,YI10K1,YI12K1,YI13K1,YI14K1,YI15K2,YI16K1,YI19K1,YI22K1,YI24K1,YI27K1,YI32K1,YI10K2
Power supply:	DC12V from adapter AC120V/60Hz
Adapter information (Optional accessories)	Model:YTY-24DM-02 120200HUS Input: 100-240V~ 50/60Hz 1.5A Output: 12.0V---2.0A 24.0W
	Model:J302B-1200200UX Input: 100-240V~ 50/60Hz 1.5A Output: 12.0V---2.0A 24.0W
	Model:KDP-A3A20200U Input: 100-240V~ 50/60Hz 0.8A Output: 12.0V---2000mA
testing sample ID:	MAX25062815-P01R01-1# (Engineer sample), MAX25062815-P01R01-2# (Normal sample)
Hardware version:	HV1.0
Software version:	SV1.0
WIFI :	
Supported type:	802.11b/802.11g/802.11n(H20)/ 802.11n(H40)
Modulation:	802.11b: DSSS 802.11g/802.11n(H20)/ 802.11n(H40): OFDM
Operation frequency:	802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(H20): 11 802.11n(H40):7
Channel separation:	5MHz
Antenna type:	FPCB Antenna
Antenna gain:	2.45 dBi

2.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	☐ 230V / 50 Hz	☒ 120V / 60Hz
		☐ 5 V DC	☐ 24 V DC
		☐ Other (specified in blank below)	

2.4 Short description of the Equipment under Test (EUT)

This is a Digital Smart Calendar.

For more details, refer to the user's manual of the EUT.

2.5 EUT operation mode

The application provider specific test software(MP_Kit_RTL11n_FTV_USB_v1.25) to control sample in continuous TX and RX (Duty Cycle >98%) for testing meet KDB558074 test requirement.

IEEE 802.11b/g/n: Thirteen channels are provided to the EUT.

IEEE 802.11n(H40): Seven channels are provided to the EUT.

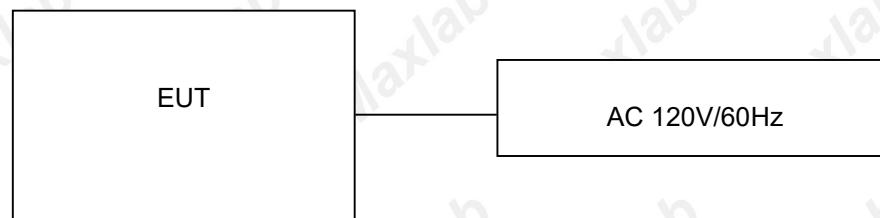
IEEE 802.11b/g/n

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

IEEE 802.11n(H40)

Channel	Frequency(MHz)		
3	2422		
4	2427		
5	2432		
6	2437		
7	2442		
8	2447		
9	2452		

2.6 Block Diagram of Test Setup



2.7 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.8 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

MAXLAB Testing Co.,Ltd.

1/F, Building B, Xinshidai GR Park, Shiyan Street, Bao'an District, Shenzhen, Guangdong, 518052, People's Republic of China

3.2 Test Facility

FCC-Registration No.: 562200 Designation Number: CN1338

MAXLAB Testing Co.,Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 11093A CAB identifier: CN0019

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

A2LA-Lab Cert. No.: 4707.01

MAXLAB Testing Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

3.3 Environmental conditions

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

Radiated Emission:

Temperature:	25 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	25 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

AC Power Conducted Emission

Temperature:	24 ° C
Humidity:	44 %
Atmospheric pressure:	950-1050mbar

3.4 Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Conducted Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9KHz~1GHz& Radiated Emission 1GHz~10 th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	13.5Mbps	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	13.5Mbps	3/9

3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the MAXLAB Testing Co.,Ltd.quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for MAXLAB Testing Co.,Ltd.

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6 Equipments Used during the Test

Conducted Emission					
Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	MAX252	2024-10-28	2025-10-27
EMI Test Receiver	R&S	ESCI 7	MAX552	2024-10-28	2025-10-27
Coaxial Switch	ANRITSU CORP	MP59B	MAX225	2024-10-28	2025-10-27
ENV216 2-L-V-NETZNACHB.DE	ROHDE&SCHWARZ	ENV216	MAX226	2024-10-28	2025-10-27
Coaxial Cable	MAX	N/A	MAX227	N/A	N/A
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Thermo meter	KTJ	TA328	MAX233	2024-10-28	2025-10-27
Absorbing clamp	Elektronik-Feinmechanik	MDS21	MAX229	2024-10-28	2025-10-27
LISN	R&S	ENV216	308	2024-10-28	2025-10-27
LISN	R&S	ENV216	314	2024-10-28	2025-10-27

Radiation Test equipment					
Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	MAX250	2024-10-28	2025-10-27
Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	MAX251	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESU26	MAX203	2024-10-28	2025-10-27
BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	MAX214	2024-10-28	2025-10-27
Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	MAX208	2024-10-28	2025-10-27
Horn Antenna	ETS-LINDGREN	3160	MAX217	2024-10-28	2025-10-27
EMI Test Software	AUDIX	E3	N/A	N/A	N/A
Coaxial Cable	MAX	N/A	MAX213	2024-10-28	2025-10-27
Coaxial Cable	MAX	N/A	MAX211	2024-10-28	2025-10-27
Coaxial cable	MAX	N/A	MAX210	2024-10-28	2025-10-27
Coaxial Cable	MAX	N/A	MAX212	2024-10-28	2025-10-27
Amplifier(100kHz-3GHz)	HP	8347A	MAX204	2024-10-28	2025-10-27
Amplifier(2GHz-20GHz)	HP	84722A	MAX206	2024-10-28	2025-10-27
Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	MAX218	2024-10-28	2025-10-27
Band filter	Amindeon	82346	MAX219	2024-10-28	2025-10-27
Power Meter	Anritsu	ML2495A	MAX540	2024-10-28	2025-10-27
Power Sensor	Anritsu	MA2411B	MAX541	2024-10-28	2025-10-27
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	MAX575	2024-10-28	2025-10-27
Splitter	Agilent	11636B	MAX237	2024-10-28	2025-10-27

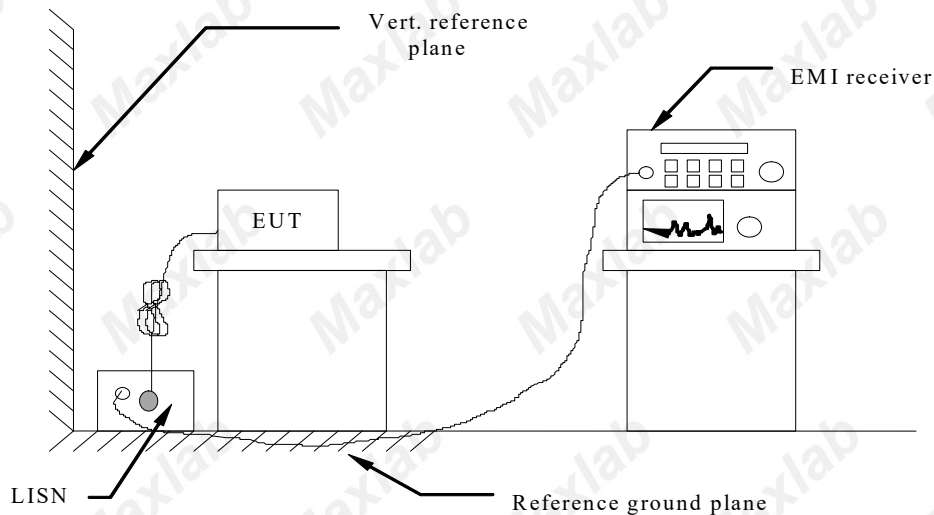
Loop Antenna	ZHINAN	ZN30900A	MAX534	2024-10-28	2025-10-27
Breitband hornantenne	SCHWARZBECK	BBHA 9170	MAX579	2024-10-28	2025-10-27
Amplifier	TDK	PA-02-02	MAX574	2024-10-28	2025-10-27
Amplifier	TDK	PA-02-03	MAX576	2024-10-28	2025-10-27
PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	MAX578	2024-10-28	2025-10-27

RF Conducted Test:					
Test Equipment	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
MXA Signal Analyzer	Agilent	N9020A	MAX566	2024-10-28	2025-10-27
EMI Test Receiver	R&S	ESCI 7	MAX552	2024-10-28	2025-10-27
Spectrum Analyzer	Agilent	E4440A	MAX533	2024-10-28	2025-10-27
MXG vector Signal Generator	Agilent	N5182A	MAX567	2024-10-28	2025-10-27
ESG Analog Signal Generator	Agilent	E4428C	MAX568	2024-10-28	2025-10-27
USB RF Power Sensor	DARE	RPR3006W	MAX569	2024-10-28	2025-10-27
RF Switch Box	Shongyi	RFSW3003328	MAX571	2024-10-28	2025-10-27
Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	MAX572	2024-10-28	2025-10-27

4 TEST CONDITIONS AND RESULTS

4.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2020.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2020
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2020
- 4 The EUT received power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

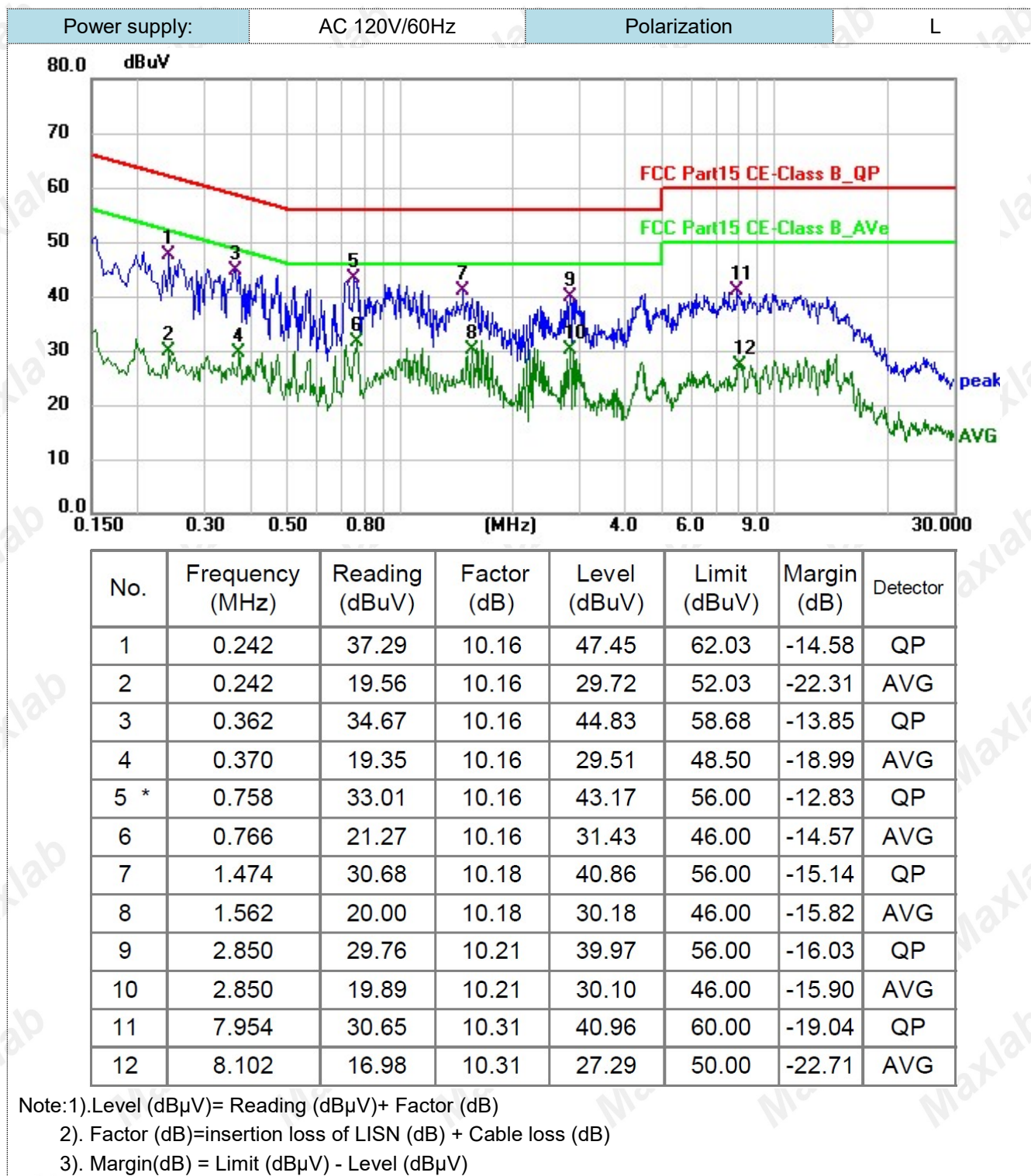
For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following :

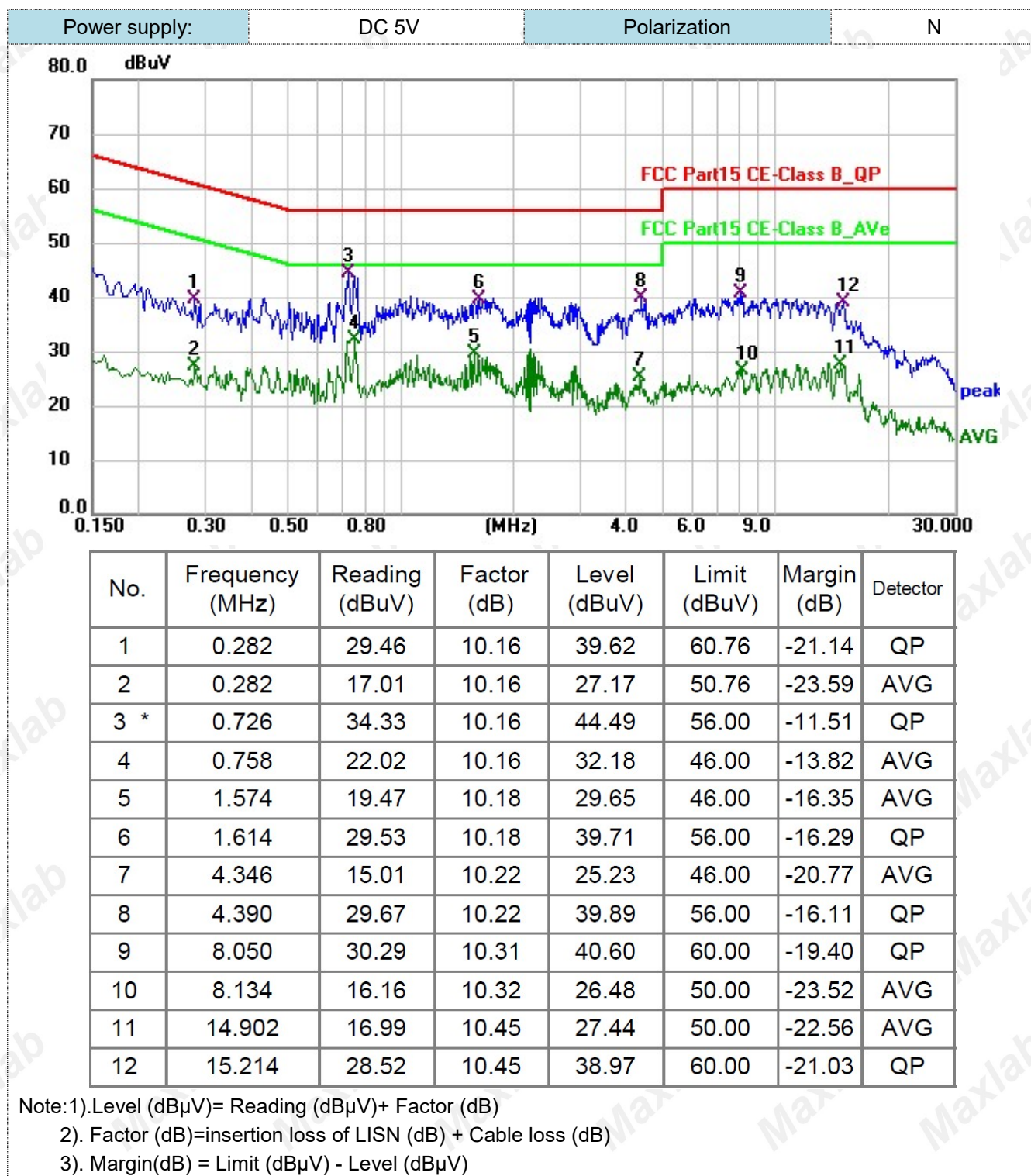
Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST RESULTS

Note: 802.11b/802.11g/802.11n (H20)/ 802.11n (H40) Mode all have been tested, only worse case 802.11b mode is reported.

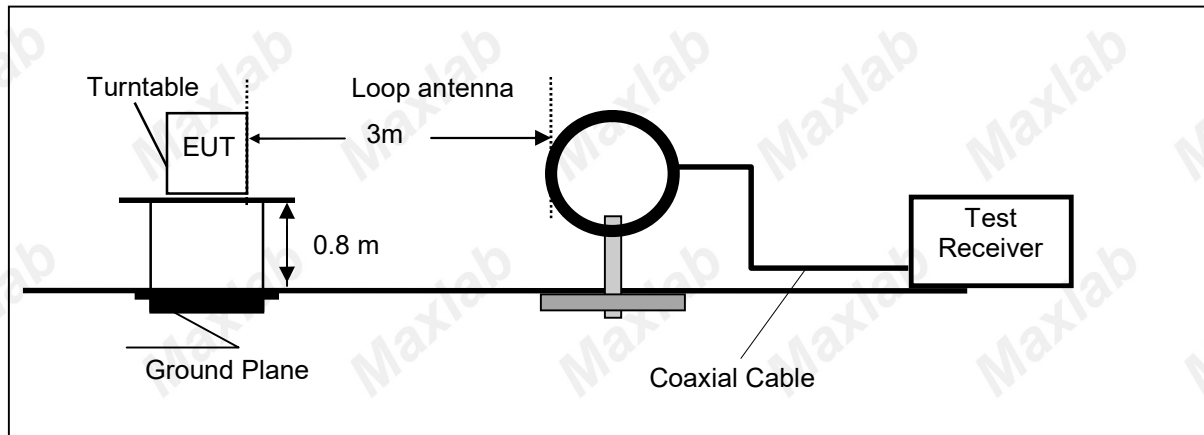




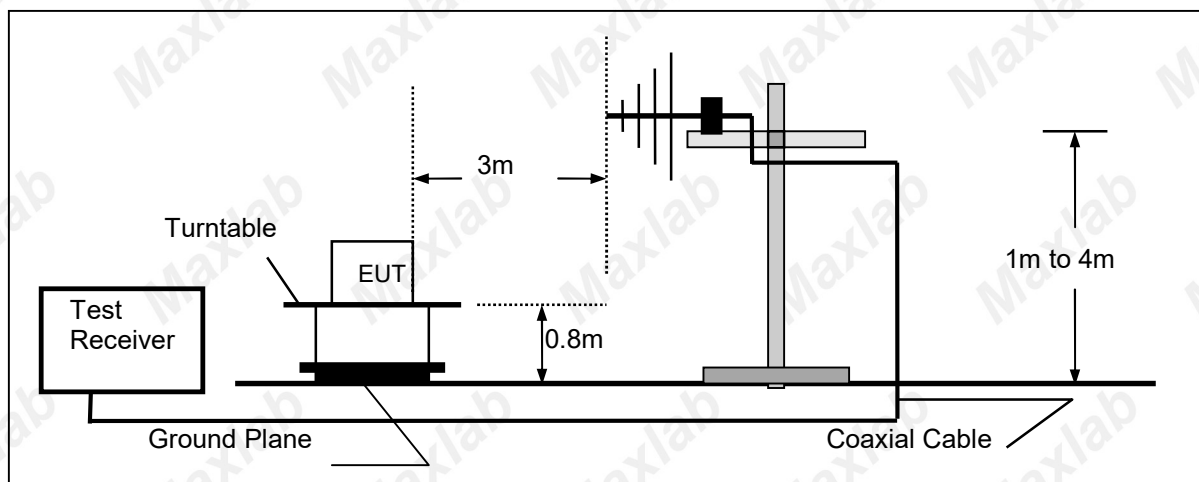
4.2 Radiated Emission

TEST CONFIGURATION

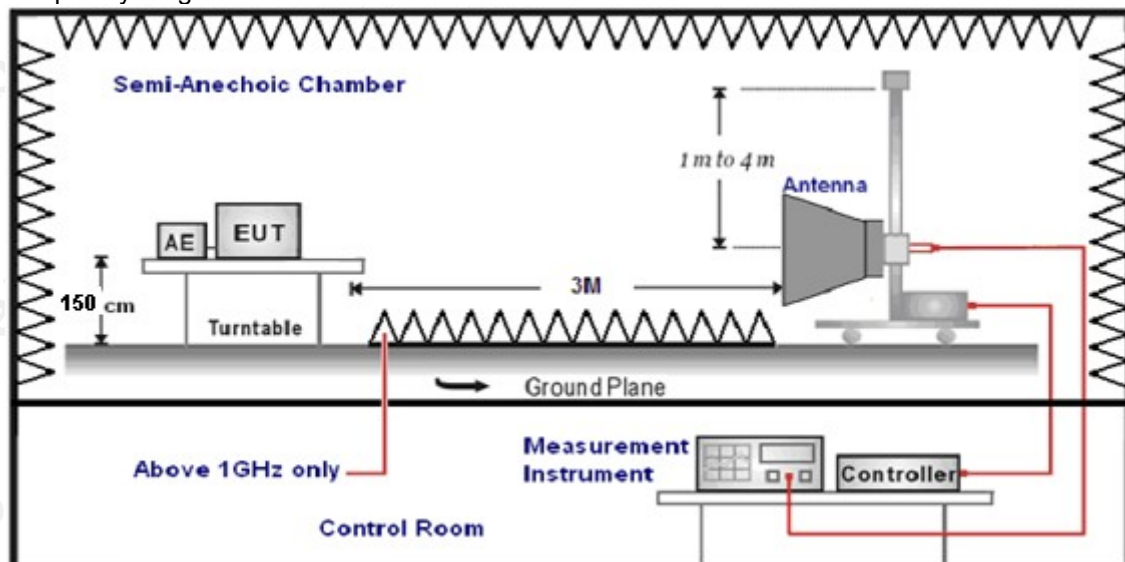
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz – 25GHz.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measurements have been completed.
5. Radiated emission test frequency band from 9KHz to 25GHz.
6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Antenna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz, Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz, Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz, Sweep time=Auto	QP
1GHz-40GHz	Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto	Peak

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

$$Transd=AF +CL-AG$$

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

Frequency (MHz)	Distance (Meters)	Radiated (dBμV/m)	Radiated (μV/m)
0.009-0.49	3	$20\log(2400/F(KHz))+40\log(300/3)$	$2400/F(KHz)$
0.49-1.705	3	$20\log(24000/F(KHz))+40\log(30/3)$	$24000/F(KHz)$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150

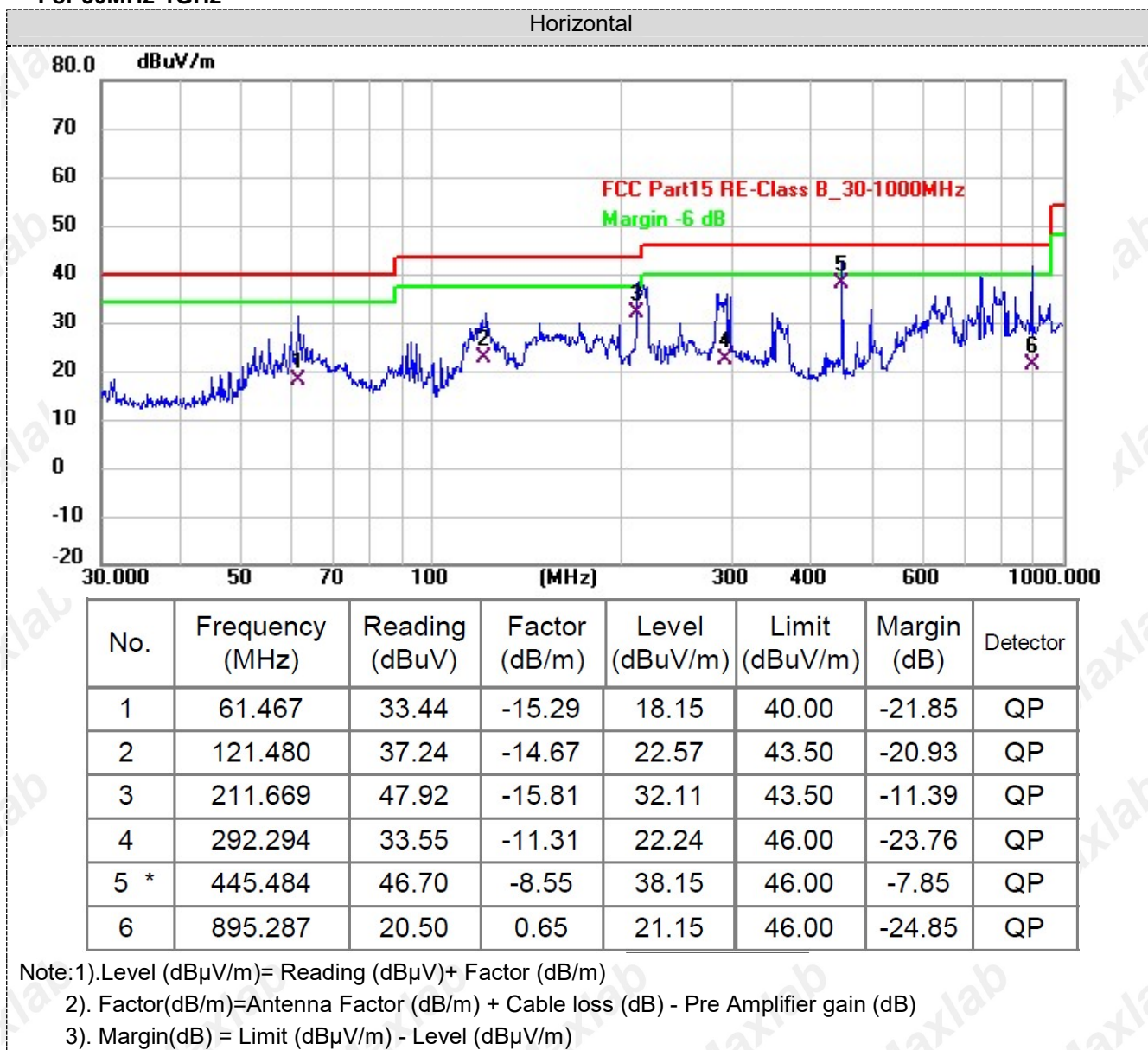
216-960	3	46.0	200
Above 960	3	54.0	500

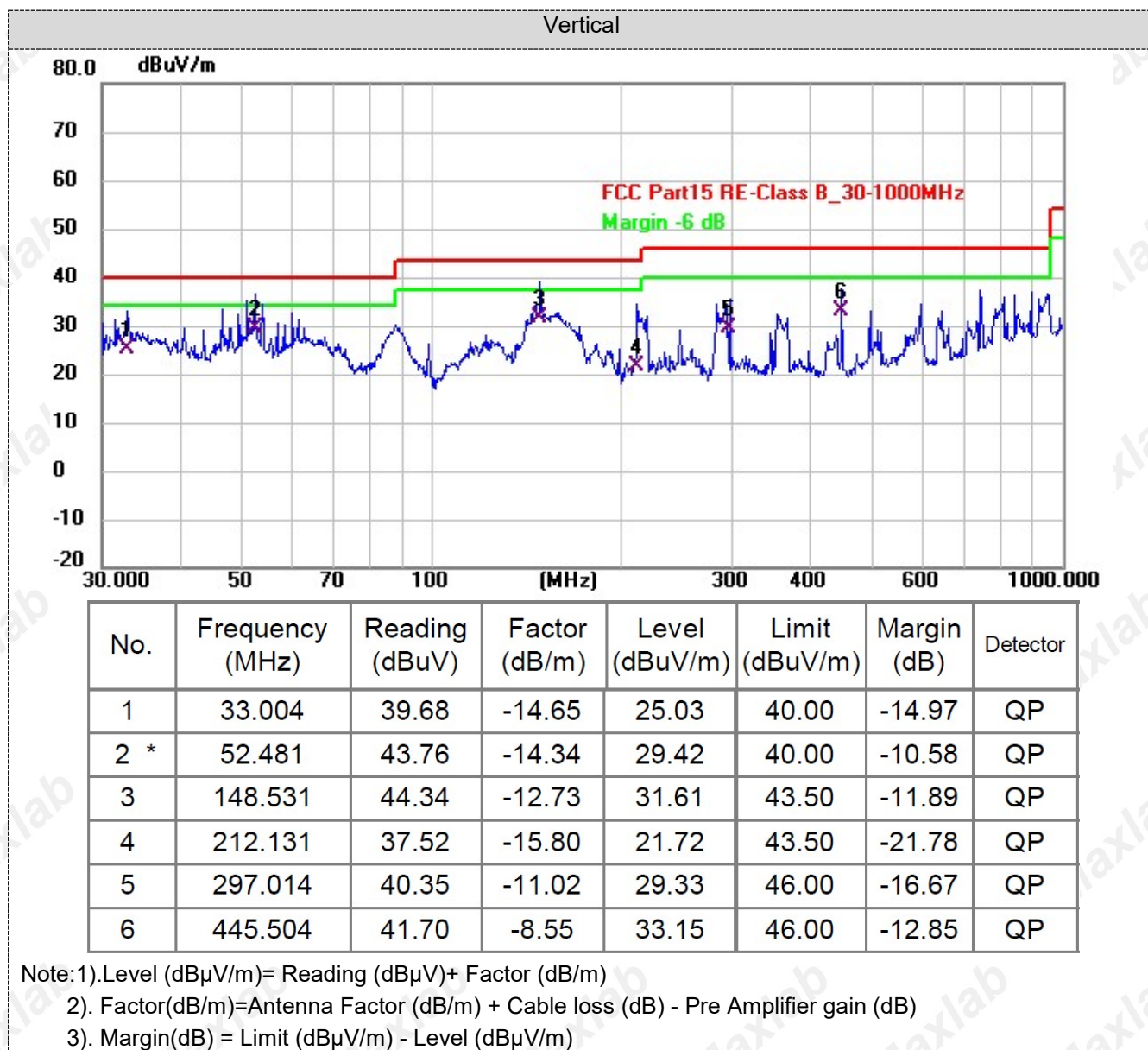
TEST RESULTS

Remark:

1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
2. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
4. The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

For 30MHz-1GHz





For 1GHz to 25GHz

Note: 802.11b/802.11g/802.11n (H20)/ 802.11n (H40) Mode all have been tested, only worse case 802.11b mode is reported (above 1GHz)

Frequency(MHz):			2412		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	56.41	PK	74	17.84	60.77	32.40	5.11	41.87	-4.36
4824.00	46.66	AV	54	8.02	51.02	32.40	5.11	41.87	-4.36
7236.00	54.96	PK	74	19.21	55.59	36.58	6.43	43.64	-0.63
7236.00	45.07	AV	54	9.26	45.70	36.58	6.43	43.64	-0.63

Frequency(MHz):			2412		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4824.00	56.80	PK	74	18.02	61.16	32.40	5.11	41.87	-4.36
4824.00	46.29	AV	54	8.10	50.65	32.40	5.11	41.87	-4.36
7236.00	54.75	PK	74	18.88	55.38	36.58	6.43	43.64	-0.63
7236.00	45.18	AV	54	9.00	45.81	36.58	6.43	43.64	-0.63

Frequency(MHz):			2437		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	57.73	PK	74	17.08	61.68	32.56	5.34	41.85	-3.95
4874.00	47.34	AV	54	7.69	51.29	32.56	5.34	41.85	-3.95
7311.00	55.97	PK	74	18.91	56.33	36.54	6.81	43.71	-0.36
7311.00	46.14	AV	54	8.99	46.50	36.54	6.81	43.71	-0.36

Frequency(MHz):			2437		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4874.00	57.70	PK	74	17.43	61.65	32.56	5.34	41.85	-3.95
4874.00	46.31	AV	54	7.50	50.26	32.56	5.34	41.85	-3.95
7311.00	55.07	PK	74	19.02	55.43	36.54	6.81	43.71	-0.36
7311.00	46.57	AV	54	8.67	46.93	36.54	6.81	43.71	-0.36

Frequency(MHz):			2462		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	57.35	PK	74	17.20	60.81	32.73	5.64	41.83	-3.46
4924.00	47.12	AV	54	6.94	50.58	32.73	5.64	41.83	-3.46
7386.00	55.28	PK	74	18.72	55.34	36.50	7.23	43.79	-0.06
7386.00	46.06	PK	54	8.21	46.12	36.50	7.23	43.79	-0.06

Frequency(MHz):			2462		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
4924.00	57.35	PK	74	17.00	60.81	32.73	5.64	41.83	-3.46
4924.00	46.73	AV	54	6.88	50.19	32.73	5.64	41.83	-3.46
7386.00	53.97	PK	74	18.72	54.03	36.50	7.23	43.79	-0.06
7386.00	45.22	PK	54	8.37	45.28	36.50	7.23	43.79	-0.06

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Results of Band Edges Test (Radiated)

Note: 802.11b/802.11g/802.11n (H20)/ 802.11n (H40) Mode all have been tested, only worse case 802.11b mode is reported

Test Frequency(MHz):			Lowest channel		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2310.00	49.90	PK	74	23.90	60.32	27.42	4.31	42.15	-10.42
2310.00	40.24	AV	54	14.18	50.66	27.42	4.31	42.15	-10.42
2390.00	48.14	PK	74	25.66	58.43	27.55	4.35	42.19	-10.29
2390.00	38.46	AV	54	15.66	48.75	27.55	4.35	42.19	-10.29
2400.00	45.20	PK	74	28.93	55.39	27.70	4.39	42.28	-10.19
2400.00	35.23	AV	54	18.67	45.42	27.70	4.39	42.28	-10.19

Test Frequency(MHz):			Lowest channel		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2310.00	48.00	PK	74	25.79	58.42	27.42	4.31	42.15	-10.42
2310.00	38.55	AV	54	16.08	48.97	27.42	4.31	42.15	-10.42
2390.00	45.02	PK	74	28.64	55.31	27.55	4.35	42.19	-10.29
2390.00	35.77	AV	54	18.43	46.06	27.55	4.35	42.19	-10.29
2400.00	43.06	PK	74	30.95	53.25	27.70	4.39	42.28	-10.19
2400.00	33.21	AV	54	20.54	43.40	27.70	4.39	42.28	-10.19

Test Frequency(MHz):			Highest channel		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	44.17	PK	74	29.37	54.80	27.55	4.38	42.56	-10.63
2483.50	34.66	AV	54	19.29	45.29	27.55	4.38	42.56	-10.63
2500.00	42.14	PK	74	31.47	52.87	27.69	4.46	42.88	-10.73
2500.00	32.60	AV	54	20.88	43.33	27.69	4.46	42.88	-10.73

Test Frequency(MHz):			Highest channel		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre-amplifier (dB)	Correction Factor (dB/m)
2483.50	41.81	PK	74	31.67	52.44	27.55	4.38	42.56	-10.63
2483.50	32.46	AV	54	21.49	43.09	27.55	4.38	42.56	-10.63
2500.00	38.54	PK	74	34.47	49.27	27.69	4.46	42.88	-10.73
2500.00	29.60	AV	54	24.10	40.33	27.69	4.46	42.88	-10.73

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

4.3 Maximum Peak Conducted Output Power

Limit

The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

Type	Channel	Output power PK (dBm)	Limit (dBm)	Result
802.11b	01	8.849	30.00	Pass
	06	8.572		
	11	8.439		
802.11g	01	6.645	30.00	Pass
	06	6.628		
	11	6.443		
802.11n(HT20)	01	6.694	30.00	Pass
	06	6.507		
	11	6.334		
802.11n(HT40)	03	5.515	30.00	Pass
	06	5.382		
	09	5.229		

Note:

- 1) Measured output power at difference data rate for each mode and recorded worst case for each mode.
- 2) Test results including cable loss.
- 3) Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20; 13.5Mbps at IEEE 802.11n HT40;

4.4 Power Spectral Density

Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW ≥ 3 kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum power level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be 8dBm.

Test Configuration



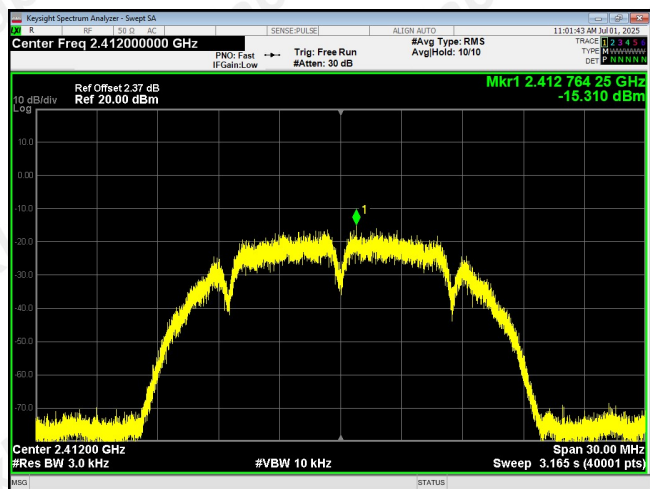
Test Results

Type	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-15.310	8.00	Pass
	06	-16.176		
	11	-15.522		
802.11g	01	-21.828	8.00	Pass
	06	-22.479		
	11	-21.688		
802.11n(HT20)	01	-21.389	8.00	Pass
	06	-23.197		
	11	-23.114		
802.11n(HT40)	03	-25.546	8.00	Pass
	06	-27.023		
	09	-26.999		

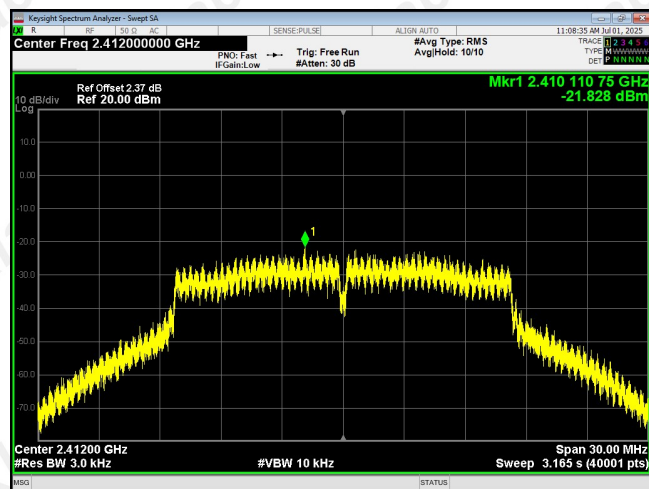
Note:

- 1) Measured peak power spectrum density at difference data rate for each mode and recorded worst case for each mode.
 - 2) Test results including cable loss;
 - 3) Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20; 13.5Mbps at IEEE 802.11n HT40;
- Please refer to following plots;

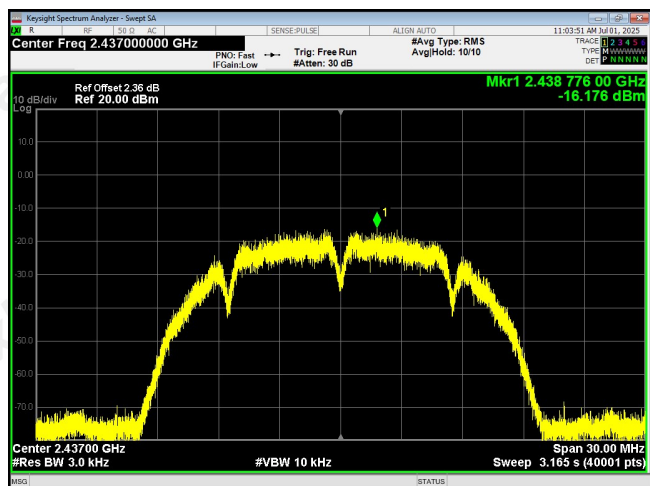
802.11b



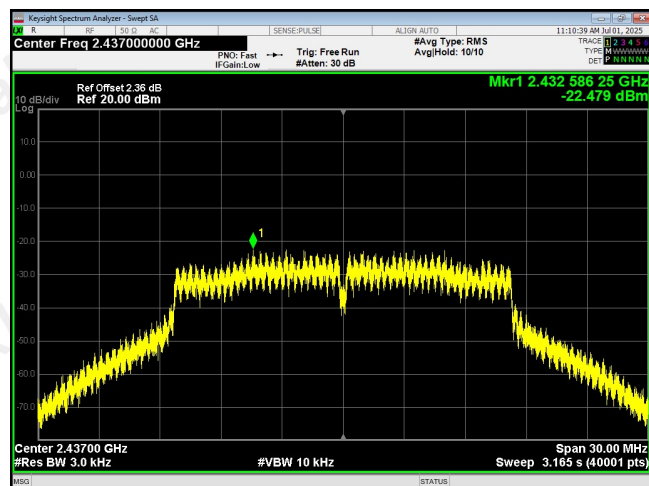
802.11g



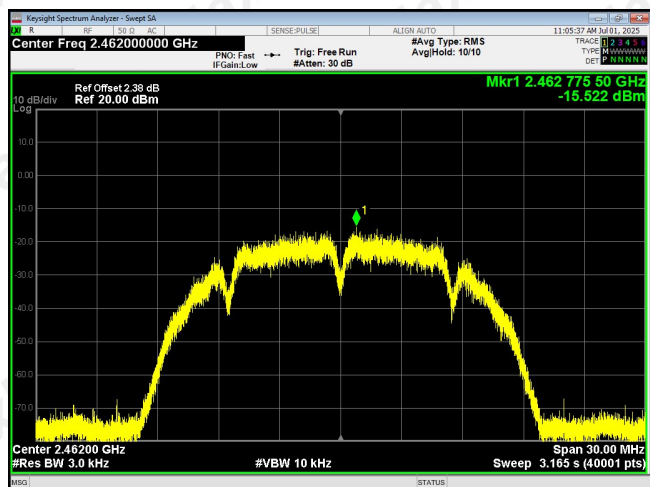
CH01



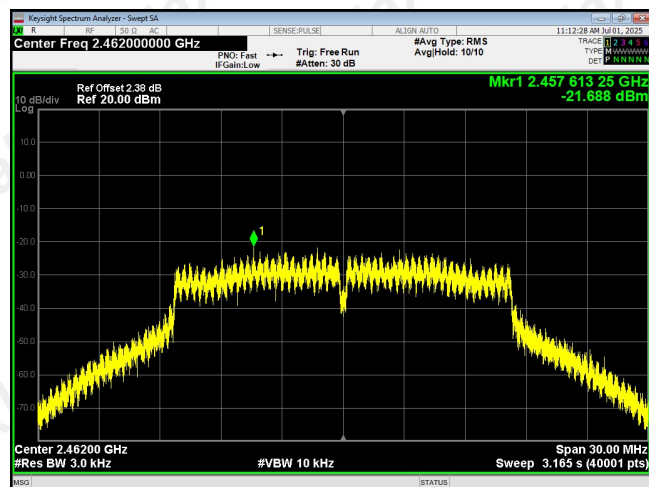
CH01



CH06



CH06



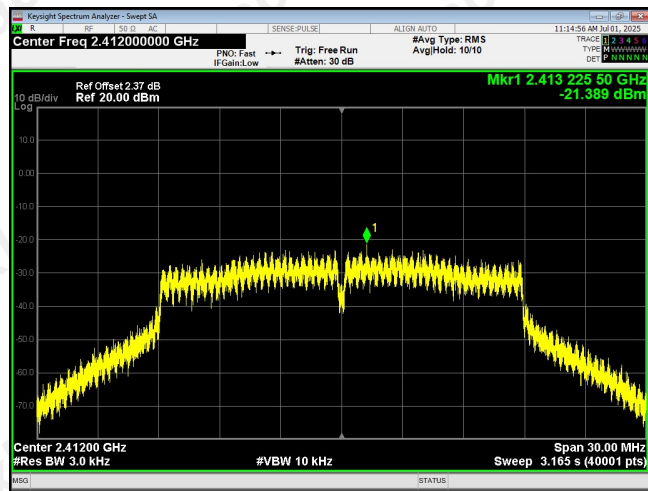
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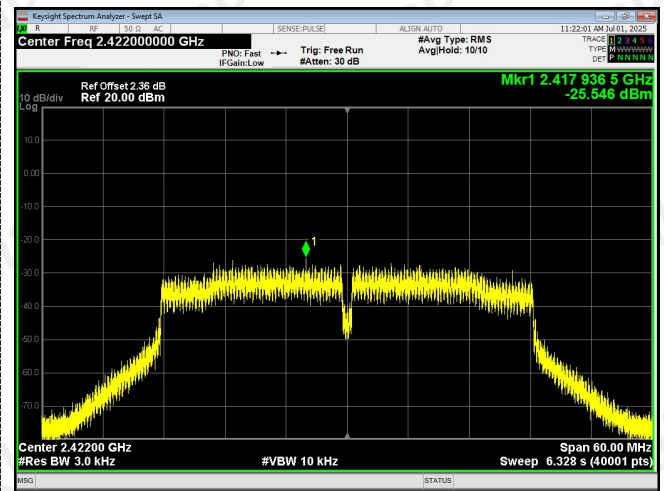
CH11



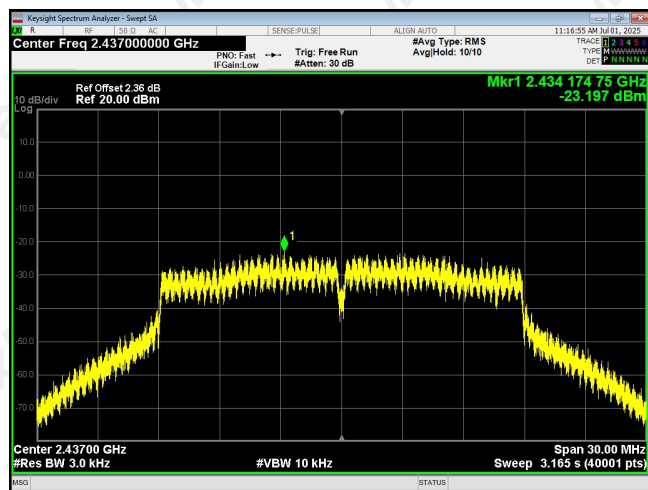
802.11n(HT20)



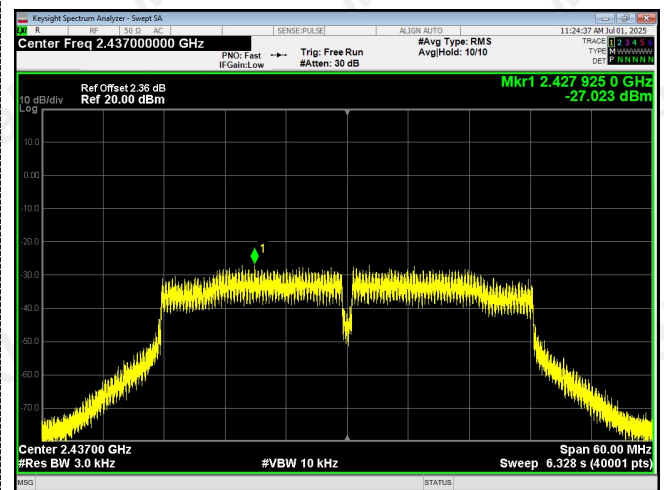
802.11n(HT40)



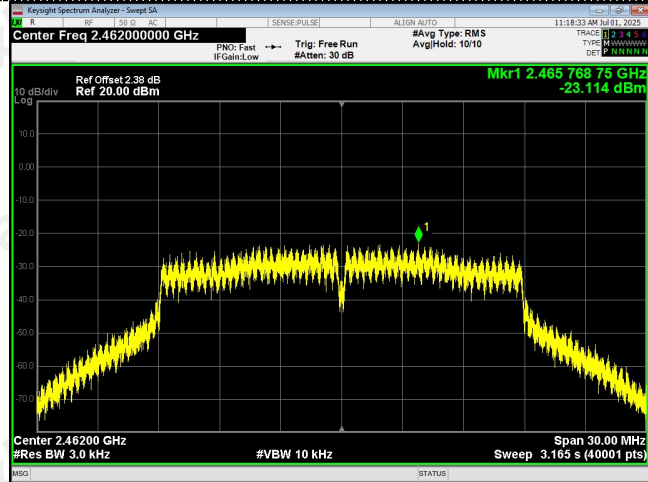
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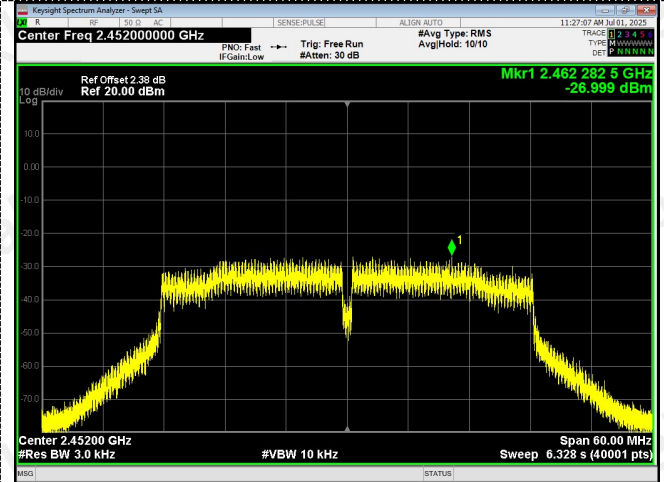
CH03



CH06



CH06



CH11

CH09

