

**CFR 47 FCC PART 15 SUBPART C
ISED RSS-247 ISSUE 2 (DTS)**

TEST REPORT

For

WIFI BT module

MODEL NUMBER: 6252B-PR

REPORT NUMBER: E01A23040641F00101

ISSUE DATE: May 15, 2023

FCC ID:2AATL-6252B-PR

IC:12425A-6252BPR

Prepared for

FN-LINK TECHNOLOGY LIMITED

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	May 15, 2023	Initial Issue	Duke

Summary of Test Results			
Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC Part 15.203/15.247 (c) RSS-GEN Clause 6.8	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013, Clause 6.2	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
Conducted Output Power	ANSI C63.10-2013, Clause 11.9.1.3	FCC Part 15.247 (b)(3) RSS-247 Clause 5.4 (d)	Pass
6dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013, Clause 11.8.1	FCC Part 15.247 (a)(2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
Power Spectral Density	ANSI C63.10-2013, Clause 11.10.2	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
Conducted Band edge and spurious emission	ANSI C63.10-2013, Clause 11.11	FCC Part 15.247(d) RSS-247 Clause 5.5	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013, Clause 11.11 & Clause 11.12	FCC Part 15.247 (d) FCC Part 15.205/15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2 (DTS)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: FN-LINK TECHNOLOGY LIMITED
Address: No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, China

Manufacturer Information

Company Name: FN-LINK TECHNOLOGY LIMITED
Address: No.8, Litong Road, Liuyang Economic & Technical Development Zone, Changsha, Hunan, China

EUT Information

EUT Name: WIFI BT module
Model: 6252B-PR
Brand: FN-LINK
Sample Received Date: Apr 24, 2023
Sample Status: Normal
Sample ID: A23040641 005
Date of Tested: Apr 24, 2023 to May 15, 2023

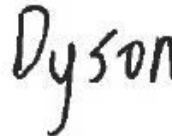
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2 (DTS)	Pass

Prepared By:



Duke
Project Engineer

Checked By:



Dyson
Project Engineer

Approved By:



Tiger
Laboratory Supervisor

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C
ISED RSS-247 ISSUE 2 (DTS), DTS

3. FACILITIES AND ACCREDITATION

Site Description

Name of Firm : Dong Guan Anci Electronic Technology Co., Ltd.
Site Location : 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan,
Lake Hi-tech Industrial Development Zone, Dongguan
City, evelopment Zone, Dongguan City, Guangdong Pr., China.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

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

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

Test Item	Measurement Frequency Range	K	U(dB)
Conducted emissions from the AC mains power ports	0.009 MHz ~ 0.15 MHz	2	4.00
Conducted emissions from the AC mains power ports	0.15 MHz ~ 30 MHz	2	3.62
Radiated emissions	9kHz ~ 30MHz	2	2.20
Radiated emissions	30 MHz ~ 1 GHz	2	3.16
Radiated emissions	1 GHz ~ 18 GHz	2	5.64
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	WIFI BT module
Model	6252B-PR
Ratings	DC 3.3V
Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2412 MHz to 2462 MHz
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40, IEEE 802.11ac-VHT20, IEEE 802.11ac-VHT40, IEEE 802.11ax-HE20, IEEE 802.11ax-HE40,
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n/ac/ax: OFDM(64-QAM, 16-QAM, QPSK, BPSK)
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n/ac/ax: Up to MCS7
Number of Channels:	IEEE 802.11b/g/n-HT20/ac-VHT20/ax-HE20: 11 IEEE 802.11n-HT40/ac-VHT40/ax-HE40: 7
Maximum Peak Power:	IEEE 802.11b: 19.27 dBm IEEE 802.11g: 19.48dBm IEEE 802.11n-HT20: 22.19 dBm IEEE 802.11n-HT40: 22.11 dBm IEEE 802.11ac-VHT20: 21.02dBm IEEE 802.11ac-VHT40: 21.00 dBm IEEE 802.11ax-HE20: 21.81 dBm IEEE 802.11ax-HE40: 22.46 dBm
Antenna Type:	External Antenna Two antenna for WIFI
Antenna Gain:	ANT0: 2.77dBi ANT1: 2.77dBi
Directional Gain	5.78dBi
EUT Test software:	AX Series MP Toolkit.exe

5.2. CHANNEL LIST

Channel List for 802.11b/g/n/ac/ax (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

Channel List for 802.11n/ac/ax (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/

5.3. MAXIMUM AVERAGE EIRP

IEEE Std. 802.11	Frequency (MHz)	Channel Number	Maximum Conducted AVG Output Power (dBm)
b	2412 ~ 2462	1-11[11]	19.27
g	2412 ~ 2462	1-11[11]	19.48
n HT20	2412 ~ 2462	1-11[11]	22.19
ac VHT20	2412 ~ 2462	1-11[11]	22.11
ax HE20	2412 ~ 2462	1-11[11]	21.02
n HT40	2422 ~ 2452	3-9[7]	21.00
ac VHT40	2422 ~ 2452	3-9[7]	21.81
ax HE40	2422 ~ 2452	3-9[7]	22.46

5.4. TEST CHANNEL CONFIGURATION

IEEE Std. 802.11	Test Channel Number	Frequency
b	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
g	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT20/ ac VHT20/ ax HE20	CH 1(Low Channel), CH 6(MID Channel), CH 11(High Channel)	2412 MHz, 2437 MHz, 2462 MHz
n HT40/ ac VHT40/ ax HE40	CH 3(Low Channel), CH 6(MID Channel), CH 9(High Channel)	2422 MHz, 2437 MHz, 2452 MHz

5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	0	16	16	16			
	1	16	16	16			
802.11g	0	16	16	16			
	1	16	16	16			
802.11n HT20/ ac VHT20/ ax HE20	0	16	16	16			
	1	16	16	16			
802.11n HT40/ ac VHT40/ ax HE40	0				16	16	16
	1				16	16	16

WORST-CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.5.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps

802.11g mode: 6 Mbps

802.11n HT20/ac VHT20/ax HE20 mode: MCS0

802.11n HT40/ac VHT40/ax HE40 mode: MCS0

The EUT has 2 separate antennas which correspond to 2 separate antenna ports. Core 0 and Core 1 correspond to antenna 0 and antenna 1 respectively.

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

Conducted output power, power spectral density tests separately on each port with all supported SISO & MIMO port combinations.

Conducted bandedge and spurious emissions tests were performed with SISO mode, as this port was found to have the worst case in terms of power settings amongst all supported possible SISO & MIMO port combinations.

Radiated emissions tests were performed with the MIMO modes. These were found to be the worst modulation scheme with regards to emissions after preliminary investigations and, as this mode emits the highest conducted output power level, it was deemed to be the worst case.

The EUT support Cyclic Shift Diversity(CDD), Space Time Coding(STBC), Spatial Division Multiplexing(SDM) modes. They use the same conducted power per chain in any given mode, so we only chose the worst case mode CDD for final testing.

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
0	2412-2462	External Antenna	2.77
1	2412-2462	External Antenna	2.77

The EUT support Cyclic Shift Diversity(CDD) mode.

MIMO output power port and MIMO PSD port summing were performed in accordance with KDB 662911 D01. For the CDD results the Directional Gain was calculated in accordance with the following method.

For output power measurements:

Directional gain= GANT + Array Gain = 5.78dBi

GANT : equal to the gain of the antenna having the highest gain

Array Gain = 3 dB (i.e., no array gain) for $N_{ANT} \leq 4$

For power spectral density (PSD) measurements:

Directional gain= GANT + Array Gain = 5.78dBi

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

N_{ANT} : number of transmit antennas

N_{SS} : number of spatial streams, The worst case directional gain will occur when $N_{SS} = 1$

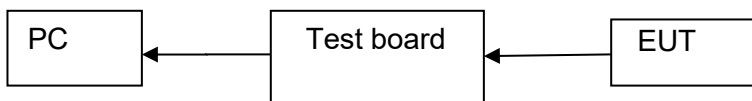
Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20/ ac VHT20/ ax HE20	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40/ ac VHT40/ ax HE40	☒ 2TX, 2RX	ANT 0 and ANT 1 can be used as transmitting/receiving antenna.
Note: 1.BT&WLAN 2.4G, BT & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously. (declared by client)		

Note: The value of the antenna gain was declared by customer.

5.7. SUPPORT UNITS FOR SYSTEM TEST

Equipment	Manufacturer	Model No.
Test board	FN-LINK	6252B-PR
PC	Lenovo	T14

5.8. SETUP DIAGRAM



6. MEASURING EQUIPMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	US40240623	2022-10-29	2023-10-28
RF Test Software	MWRF-test	MTS 8310	N/A	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111 ANCI	2023/05/09	2024/5/10
Radio Frequency control box	MWRF-test	MW200-RFCB 2#	/	2023/05/09	2024/5/10
Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100302	2023/05/09	2024/5/10
Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-1290	2022/12/12	2023/12/11
RF Cable	ZKJC	ZT06S-NJ-NJ-11M	19060398	2023/05/09	2024/5/10
RF Cable	ZKJC	ZT06S-NJ-NJ-0.5M	19060400	2023/05/09	2024/5/10
RF Cable	ZKJC	ZT06S-NJ-NJ-2.5M	19060404	2023/05/09	2024/5/10
EMI Test Receiver	ROHDE&SCHWARZ	ESPI7	100502	2022/10/8	2023/10/7
3m Semi-anechoic Chamber	Keysight	9m*6m*6m	N/A	2021/11/13	2024/11/12
Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Low noise Amplifiers	A-INFO	LA1018N4009	J1013130524001	2023/05/09	2024/5/10
Horn antenna	A-INFO	LB-10180-SF	J2031090612123	2023/05/09	2024/5/10
RF Cable	ZKJC	ZT26-NJ-NJ-11M	19060401	2023/05/09	2024/5/10
RF Cable	ZKJC	ZT26-NJ-NJ-2.5M	19060402	2023/05/09	2024/5/10
RF Cable	ZKJC	ZT26-NJ-NJ-0.5M	19060403	2023/05/09	2024/5/10
Spectrum Analyzer	Rohde & Schwarz	FSV40	US40240623	2022-10-29	2023-10-28
3m Semi-anechoic Chamber	Keysight	9m*6m*6m	N/A	2021/11/13	2024/11/12
Test Software	Farad	EZ-EMC (Ver.FA-03A2RE)	N/A	N/A	N/A
Test Equipment of Conducted emissions					

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2023/05/09	2024/5/10
1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2022/11/22	2025/11/21
LISN	ROHDE&SCHWARZ	ENV216	101413	2022/10/8	2023/10/7
Test Software	Farad	EZ-EMC (Ver.ANCI-3A1)	N/A	N/A	N/A
RF Cable	N/A	ZT06S-NJ-NJ-2.5M	19044022	2023/05/09	2024/5/10

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Conduct Output Power	1 watt or 30 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).

Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	55%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.2. 6DB BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C ISED RSS-247 ISSUE 2			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2) ISED RSS-247 5.2 (a)	6 dB Bandwidth	≥ 500 kHz	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	For reporting purposes only.	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.8 for DTS bandwidth and clause 6.9 for Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Frequency Span	For 6 dB Bandwidth: Enough to capture all products of the modulation carrier emission For 99 % Occupied Bandwidth: Between 1.5 times and 5.0 times the OBW
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

a) Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.

b) 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 relative to the maximum level measured in the fundamental emission.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	55%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.3. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm in any 3 kHz band	2400-2483.5

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.10.

Connect the EUT to the spectrum analyser 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.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	55%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.4. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	Conducted Bandedge 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

LIMITS

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.11 and 11.13.

Connect the EUT to the spectrum analyser and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 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 PSD level.

Change the settings for emission level measurement:

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	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	55%
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Atmosphere Pressure	101kPa		
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TEST RESULTS

Please refer to section "Test Data" - Appendix B

7.5. DUTY CYCLE

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 11.6 Zero – Span Spectrum Analyzer method.

TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	55%
Atmosphere Pressure	101kPa		

TEST RESULTS

Please refer to section "Test Data" - Appendix B

8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5480	
73 - 74.0	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

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)
13.36-13.41			

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

²Above 38.6c

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
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 above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m 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 and average 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 and average 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.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.

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 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.

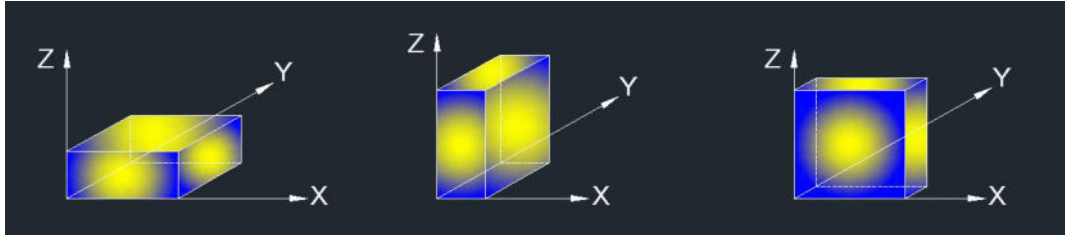
Above 1G

The setting of the spectrum analyser

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 clause 6.6.
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 1.5 m 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 1 GHz, 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 average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



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.

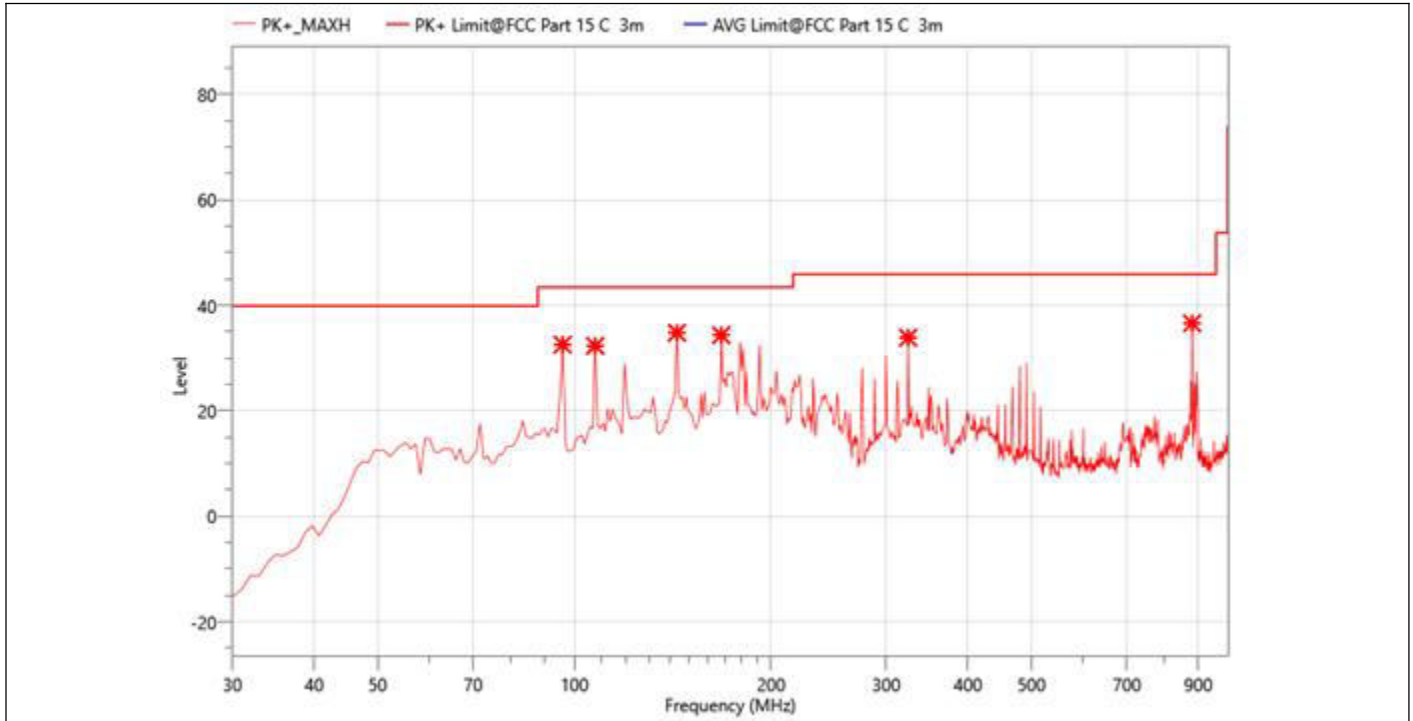
TEST ENVIRONMENT

Temperature	24°C	Relative Humidity	54%
Atmosphere Pressure	101kPa		

TEST RESULTS

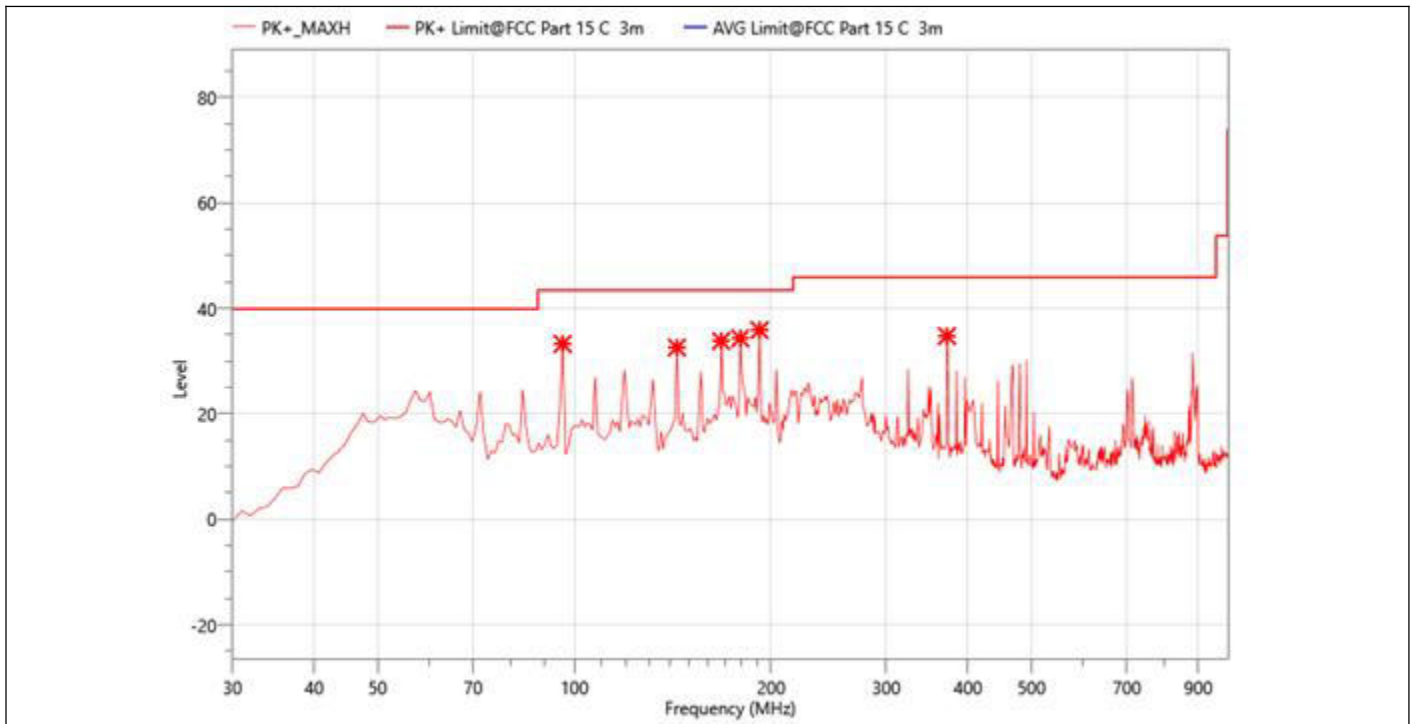
- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

The worst result as bellow:



Site:		Antenna: Horizontal	Temperature(C): 23(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%): 57%
EUT:	WIFI BT module	Test Time:	2023-05-12
M/N.:	6252B-PR	Power Rating:	DC 5V
Mode:	802.11b 2412MHz	Test Engineer:	Luffy
Note:			

Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
95.96	56.29	32.58	43.50	10.92	PK+	149.9	H	360.0	-23.71
107.6	55.38	32.34	43.50	11.16	PK+	149.9	H	360.0	-23.04
143.49	55.31	34.82	43.50	8.68	PK+	149.9	H	360.0	-20.49
167.74	55.38	34.38	43.50	9.12	PK+	149.9	H	360.0	-21
323.91	52.27	33.89	46.00	12.11	PK+	149.9	H	360.0	-18.38
880.69	53.69	36.61	46.00	9.39	PK+	149.9	H	360.0	-17.08



Site:	LAB	Antenna: Vertical	Temperature(C):23(C)
Limit:	FCC Part 15 Class B 3m Radiation(QP)		Humidity(%):57%
EUT:	WIFI BT module	Test Time:	2023-05-12
M/N.:	6252B-PR	Power Rating:	DC 5V
Mode:	802.11b 2412MHz	Test Engineer:	Luffy
Note:			

Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
95.96	56.99	33.28	43.50	10.22	PK+	149.9	V	360.0	-23.71
143.49	53.09	32.6	43.50	10.9	PK+	149.9	V	360.0	-20.49
167.74	54.82	33.82	43.50	9.68	PK+	149.9	V	360.0	-21
179.38	54.58	34.35	43.50	9.15	PK+	149.9	V	360.0	-20.23
191.99	55.5	35.91	43.50	7.59	PK+	149.9	V	360.0	-19.59
371.44	54.64	34.77	46.00	11.23	PK+	149.9	V	360.0	-19.87

Note: 1. Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor

● Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

All modes has been tested and the worst result (801.11b) recorded as below:

Temperature :	24°C	Test Date :	2023-05-05
Humidity :	55 %	Test By:	Mace
Test mode:	801.11b	Frequency(MHz):	2412

Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1412	72.78	49.55	74.00	24.45	PK+	149.9	V	-0.2	-23.23
1962	68.99	49.83	74.00	24.17	PK+	149.9	V	-0.2	-19.16
2128	70.71	52.21	74.00	21.79	PK+	149.9	V	-0.2	-18.5
6000	55.49	47.67	74.00	26.33	PK+	149.9	V	-0.2	-7.82
12000	50.15	49.62	74.00	24.38	PK+	149.9	V	-0.2	-0.53
17640	44.98	51.81	74.00	22.19	PK+	149.9	V	-0.2	6.83
1352	72.41	49.04	74.00	24.96	PK+	149.9	H	-0.2	-23.37
1416	73.85	50.67	74.00	23.33	PK+	149.9	H	-0.2	-23.18
1598	72.33	50.04	74.00	23.96	PK+	149.9	H	-0.2	-22.29
3195	65.81	51.01	74.00	22.99	PK+	149.9	H	-0.2	-14.8
4260	60.35	47.9	74.00	26.1	PK+	149.9	H	-0.2	-12.45
17355	45.39	51.95	74.00	22.05	PK+	149.9	H	-0.2	6.56

Temperature :	24°C	Test Date :	2023-05-05
Humidity :	55 %	Test By:	Mace
Test mode:	801.11b	Frequency(MHz):	2437

Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1412	71.88	48.65	74.00	25.35	PK+	149.9	V	-0.2	-23.23
2132	68	49.51	74.00	24.49	PK+	149.9	V	-0.2	-18.49
2678	69.24	51.91	74.00	22.09	PK+	149.9	V	-0.2	-17.33
4245	61.4	48.89	74.00	25.11	PK+	149.9	V	-0.2	-12.51
11145	48.89	48.26	74.00	25.74	PK+	149.9	V	-0.2	-0.63
17040	45.05	51.28	74.00	22.72	PK+	149.9	V	-0.2	6.23
1412	73.17	49.94	74.00	24.06	PK+	149.9	H	-0.2	-23.23
1792	70.91	50.26	74.00	23.74	PK+	149.9	H	-0.2	-20.65
2678	68.47	51.14	74.00	22.86	PK+	149.9	H	-0.2	-17.33
3180	66.67	51.84	74.00	22.16	PK+	149.9	H	-0.2	-14.83
11205	48.91	48.2	74.00	25.8	PK+	149.9	H	-0.2	-0.71
17055	46.03	52.29	74.00	21.71	PK+	149.9	H	-0.2	6.26

Temperature :	24°C	Test Date :	2023-05-05
Humidity :	55 %	Test By:	Mace
Test mode:	801.11b	Frequency(MHz):	2462

Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
1962	68.48	49.32	74.00	24.68	PK+	149.9	V	-0.2	-19.16
2128	67.7	49.2	74.00	24.8	PK+	149.9	V	-0.2	-18.5
2878	68.15	51.45	74.00	22.55	PK+	149.9	V	-0.2	-16.7
3180	65.1	50.27	74.00	23.73	PK+	149.9	V	-0.2	-14.83
6000	56.94	49.12	74.00	24.88	PK+	149.9	V	-0.2	-7.82
12000	51.43	50.9	74.00	23.1	PK+	149.9	V	-0.2	-0.53
1416	74.11	50.93	74.00	23.07	PK+	149.9	H	-0.2	-23.18
1792	70.42	49.77	74.00	24.23	PK+	149.9	H	-0.2	-20.65
2878	67.98	51.28	74.00	22.72	PK+	149.9	H	-0.2	-16.7
3180	65.62	50.79	74.00	23.21	PK+	149.9	H	-0.2	-14.83
4050	61.11	48.09	74.00	25.91	PK+	149.9	H	-0.2	-13.02
11250	49.68	48.79	74.00	25.21	PK+	149.9	H	-0.2	-0.89

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

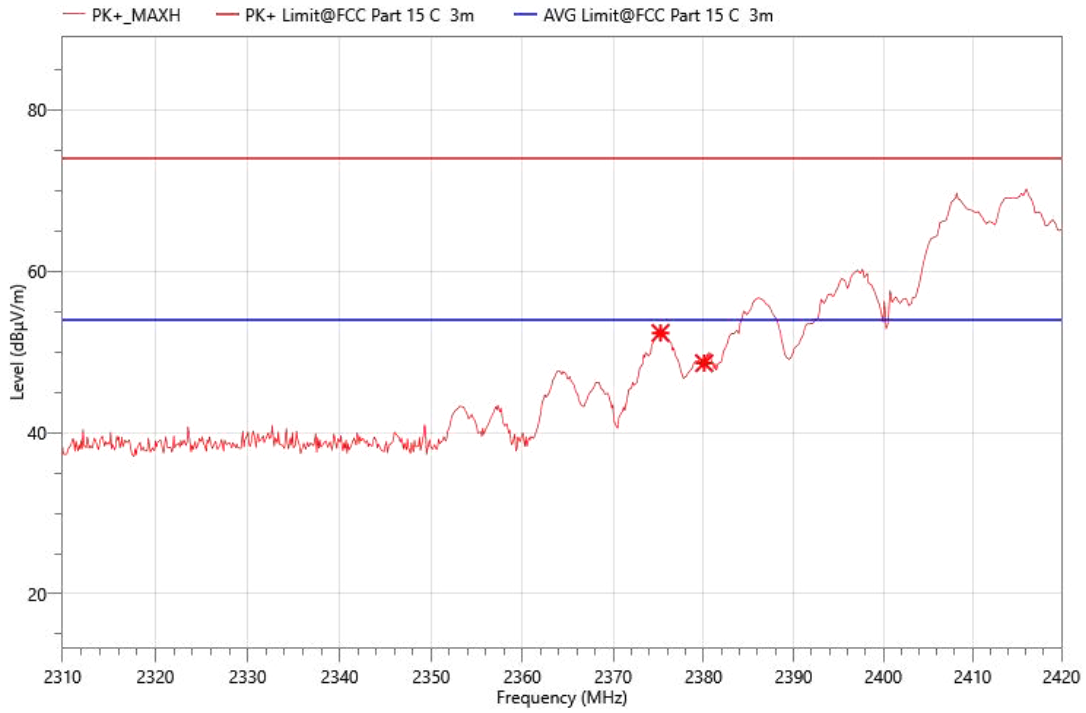
(3) $EIRP[dBm] = E[dBμV/m] + 20 \log(d[meters]) - 104.77$

d is the measurement distance in 3 meters

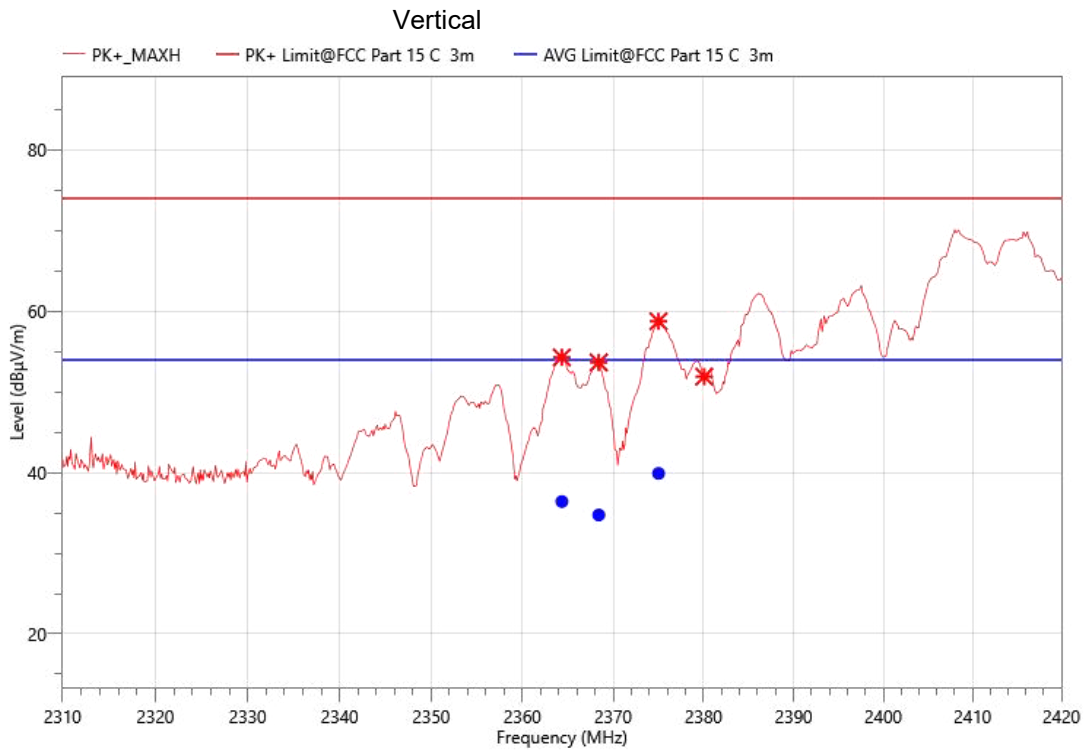
- Band Edge

802.11b 2412MHz

Horizontal



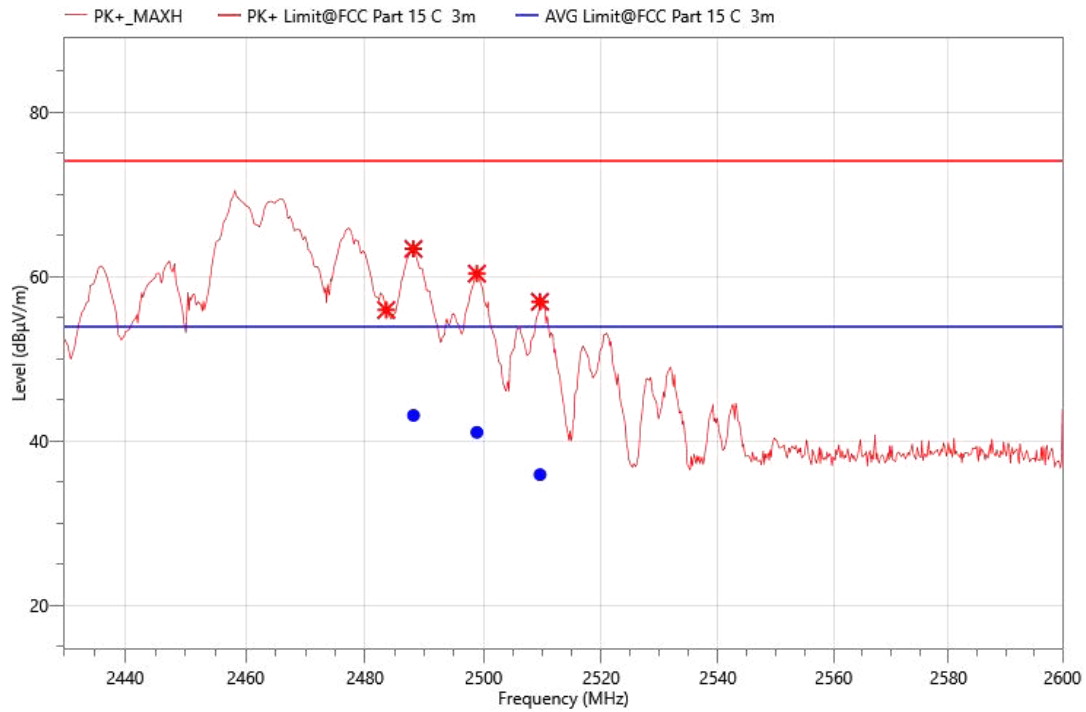
Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
2375.23	70.34	52.34	74.00	21.66	PK+	149.9	H	-0.2	-18
2380.07	66.6	48.6	74.00	25.4	PK+	149.9	H	-0.2	-18



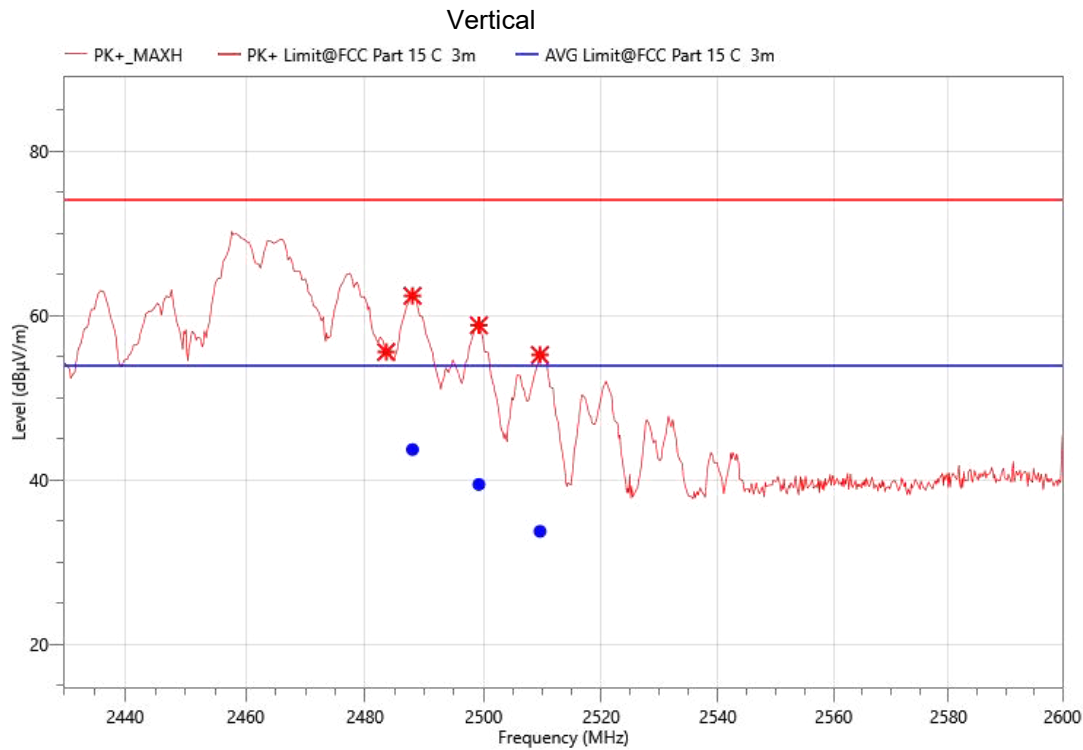
Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
2364.34	72.25	54.27	74.00	19.73	PK+	149.9	V	-0.2	-17.98
2364.34	54.39	36.41	53.90	17.49	AVG	149.9	V	-0.2	-17.98
2368.41	71.64	53.65	74.00	20.35	PK+	149.9	V	-0.2	-17.99
2368.41	52.73	34.74	53.90	19.16	AVG	149.9	V	-0.2	-17.99
2375.01	76.75	58.75	74.00	15.25	PK+	149.9	V	-0.2	-18
2375.01	57.89	39.89	53.90	14.01	AVG	149.9	V	-0.2	-18
2380.07	69.89	51.89	74.00	22.11	PK+	149.9	V	-0.2	-18

802.11b 2462MHz

Horizontal



Freq. (MHz)	Reading (dBμV)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
2483.55	73.65	55.94	74.00	18.06	PK+	149.9	H	-0.2	-17.71
2488.14	81.07	63.37	74.00	10.63	PK+	149.9	H	-0.2	-17.7
2488.14	60.81	43.11	53.90	10.79	AVG	149.9	H	-0.2	-17.7
2498.85	78.03	60.35	74.00	13.65	PK+	149.9	H	-0.2	-17.68
2498.85	58.73	41.05	53.90	12.85	AVG	149.9	H	-0.2	-17.68
2509.56	74.59	56.93	74.00	17.07	PK+	149.9	H	-0.2	-17.66
2509.56	53.56	35.90	53.90	18	AVG	149.9	H	-0.2	-17.66



Freq. (MHz)	Reading (dBµV)	Meas. (dBµV/m)	Limit (dBµV/m)	Margin (dBµV/m)	Det.	Height (cm)	Pol.	Azimuth (deg)	Corr. (dB)
2483.55	73.28	55.57	74.00	18.43	PK+	149.9	V	-0.2	-17.71
2487.97	80.1	62.4	74.00	11.6	PK+	149.9	V	-0.2	-17.7
2487.97	61.40	43.70	53.90	10.2	AVG	149.9	V	-0.2	-17.7
2499.19	76.49	58.81	74.00	15.19	PK+	149.9	V	-0.2	-17.68
2499.19	57.14	39.46	53.90	14.44	AVG	149.9	V	-0.2	-17.68
2509.56	72.87	55.21	74.00	18.79	PK+	149.9	V	-0.2	-17.66
2509.56	51.41	33.75	53.90	20.15	AVG	149.9	V	-0.2	-17.66

Note: 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40), 802.11n (VHT-20), 802.11ax (HE-20), 802.11ac (VHT-40), 802.11ax (HE-40) all has been tested, the worst case is 802.11a, only shown the worst case.

9. ANTENNA REQUIREMENT

REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247.

RSS-Gen issue 5 6.8.

FCC part 15C section 15.247 requirements:

Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

DESCRIPTION

Pass

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

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

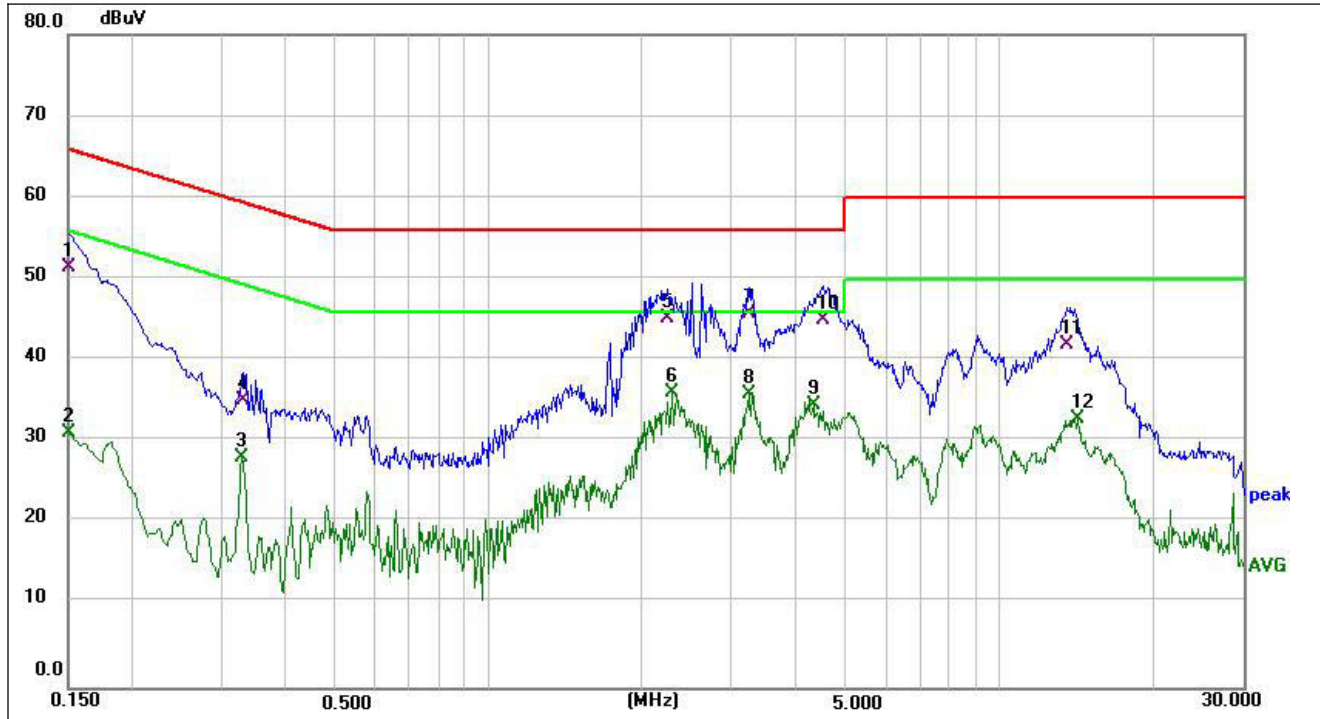
TEST PROCEDURE

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 a 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.

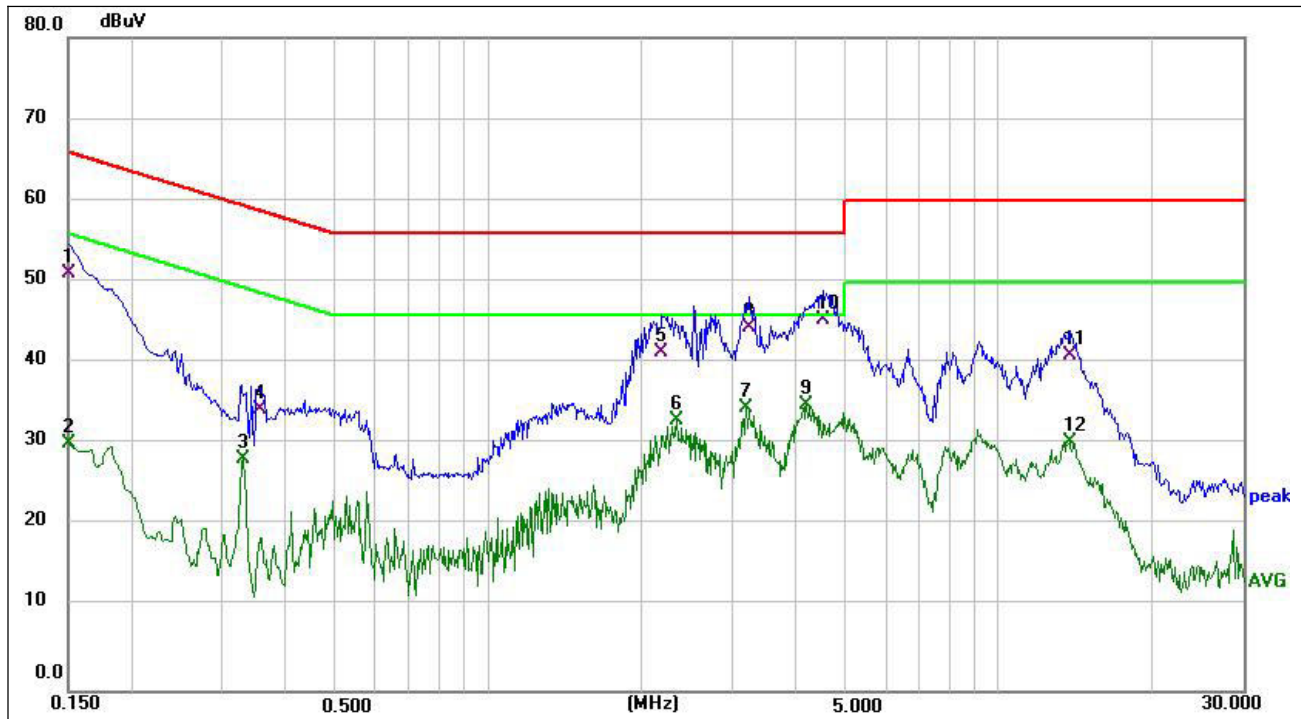
TEST ENVIRONMENT

Temperature	23.5°C	Relative Humidity	52.6%
Atmosphere Pressure	101kPa		

TEST RESULTS

Site:		Phase:L1	Temperature(C):23.5(C)
Limit:	FCC Part 15 C Conduction(QP)		Humidity(%):52.6%
EUT:	WIFI BT module	Test Time:	2023/5/12
M/N.:	6252B-PR	Power Rating:	AC 120V/60Hz
Mode:	WIFI mode	Test Engineer:	Kole
Note:	2.4G WIFI mode 11B 2412MHz		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	41.77	9.83	51.60	66.00	-14.40	QP
2	0.1500	21.54	9.83	31.37	56.00	-24.63	AVG
3	0.3286	18.11	10.22	28.33	49.49	-21.16	AVG
4	0.3300	24.98	10.22	35.20	59.45	-24.25	QP
5	2.2380	35.67	9.63	45.30	56.00	-10.70	QP
6 *	2.2900	26.49	9.64	36.13	46.00	-9.87	AVG
7	3.2260	36.15	9.65	45.80	56.00	-10.20	QP
8	3.2260	26.44	9.65	36.09	46.00	-9.91	AVG
9	4.3180	24.94	9.69	34.63	46.00	-11.37	AVG
10	4.5300	35.41	9.69	45.10	56.00	-10.90	QP
11	13.5660	31.96	10.04	42.00	60.00	-18.00	QP
12	14.2140	22.94	10.06	33.00	50.00	-17.00	AVG



Site:		Phase:	N	Temperature(C):	23.5(C)
Limit:	FCC Part 15 C Conduction(QP)	Test Time:		Humidity(%):	52.6%
EUT:	WIFI BT module	Power Rating:		AC 120V/60Hz	
M/N.:	6252B-PR	Test Engineer:		Kole	
Mode:	WIFI mode				
Note:	2.4G WIFI mode 11B 2412MHz				

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	41.36	9.84	51.20	66.00	-14.80	QP
2	0.1500	20.55	9.84	30.39	56.00	-25.61	AVG
3	0.3300	18.27	10.22	28.49	49.45	-20.96	AVG
4	0.3540	24.24	10.26	34.50	58.87	-24.37	QP
5	2.1860	31.87	9.63	41.50	56.00	-14.50	QP
6	2.3420	23.57	9.64	33.21	46.00	-12.79	AVG
7	3.1980	24.97	9.65	34.62	46.00	-11.38	AVG
8	3.2260	34.95	9.65	44.60	56.00	-11.40	QP
9	4.1900	25.41	9.68	35.09	46.00	-10.91	AVG
10 *	4.5260	35.81	9.69	45.50	56.00	-10.50	QP
11	13.7540	31.16	10.04	41.20	60.00	-18.80	QP
12	13.7540	20.52	10.04	30.56	50.00	-19.44	AVG

Note: 1. Result = Reading + Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).

4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

11. TEST DATA

Please refer to section "Test Data" - Appendix B

APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

Please refer to test report: **E01A23040641F00101**

END OF REPORT