

TEST REPORT

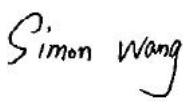
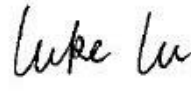
Applicant:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
Address:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Manufacturer or Supplier:	Lenovo PC HK Limited
Address:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China
Product:	Portable Tablet Computer
Brand Name:	Lenovo
Model Name:	TB311XU
FCC ID:	O57TB311XU
Date of tests:	Aug. 15, 2024 ~ Sep. 24, 2024

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

- ☒ FCC Part 15, Subpart C, Section 15.247 ☒ ANSI C63.10-2020
☒ FCC Part 15, Subpart E, Section 15.407
☒ FCC Part 27 ☒ ANSI/TIA/EIA-603-D
☒ FCC Part 2 ☒ ANSI/TIA/EIA-603-E ☒ ANSI C63.26-2015

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
	
Date: Sep. 24, 2024	Date: Sep. 24, 2024

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2407300216RF06	Original release	Sep. 24, 2024

1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Portable Tablet Computer	
BRAND NAME	Lenovo	
MODEL NAME	TB311XU	
NOMINAL VOLTAGE	5Vdc (Adapter or host equipment) 3.9Vdc (Li-Polymer, battery)	
MODULATION TYPE	BT_LE	GFSK
	Bluetooth	GFSK, $\pi/4$ -DQPSK, 8DPSK
	FM	FM
	WLAN	DSSS, OFDM
	GPS/GALILEO/GLO NASS/BDS	BPSK
	GSM/GPRS/EDGE	GMSK, 8PSK
	WCDMA	BPSK/QPSK
	LTE	QPSK/16QAM/64QAM
OPERATING FREQUENCY	Bluetooth/BT_LE	2402MHz ~ 2480MHz
	FM	87.5MHz ~ 108MHz
	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20/40) 5180 ~ 5240MHz, 5260 ~ 5320 MHz, 5500 ~ 5720MHz, 5745 ~ 5825 MHz for 11a/ n(HT20)/ n(HT40) / ac(VHT20)/ ac(VHT40) / ac(VHT80)
	GPS/GALILEO/GLO NASS/BDS	1559MHz ~ 1610MHz
	GSM	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR GSM 1900)
	WCDMA	1852.4MHz ~ 1907.6MHz(FOR WCDMA Band 2) 1712.4MHz ~ 1752.6MHz(FOR WCDMA Band 4) 826.4MHz ~ 846.6MHz (FOR WCDMA Band 5)
	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 2502.5MHz ~ 2567.5MHz (FOR LTE Band7) 699.7MHz ~ 715.3MHz (FOR LTE Band12) 779.5MHz ~ 784.5MHz (FOR LTE Band13)

		706.5MHz ~ 713.5MHz (FOR LTE Band17) 1850.7MHz ~ 1914.3MHz (FOR LTE Band25) 814.7MHz ~ 848.3MHz (FOR LTE Band26) 1710.7MHz ~ 1779.3MHz (FOR LTE Band66) CA-7C,CA-41C
HW VERSION	TB311XU	
SW VERSION	TB311XU_RF01_20240921	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter	
ACCESSORY DEVICES	Refer to note as below	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.

4. List of Accessory:

5. ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery 1	N/A	Zhejiang Sunwoda Electronic Co., Ltd.	L24D1P32	Nominal Energy: 19.55Wh, Typical Energy: 19.95Wh
Battery 2	N/A	Ningde Amperex Technology Limited	L24D1P32	Nominal Energy: 19.55Wh, Typical Energy: 19.95Wh
AC Adapter 1	Salcomp	Salcomp (Shenzhen) Co., Ltd	MC-201L (US)	AC Input: 100-240V~, 50/60Hz, 0.7A DC Output: 5.0Vdc 3.0A 15W 10Vdc 2.0A 20W 12Vdc 1.67A 20W
AC Adapter 2	Aohai	Jiangxi Jian Aohai Technology Co., Ltd.	MC-201L (US)	AC Input: 100-240V~, 50/60Hz, 0.7A DC Output: 5.0Vdc 3.0A 15W 10Vdc 2.0A 20W 12Vdc 1.67A 20W
USB Cable 1 (support unit)	Saibao	Saibao (Jiangxi) Industrial Co., LTD	SLQ-A263A	Signal Line, 1.0meter
USB Cable 2	Jieye	Jiangxi Jieye Electronics Co., LTD	JY-C03-422	Signal Line, 1.0meter
Earphone(optional)	Lenovo	N/A	E310	N/A
Pen(optional)	Lenovo	N/A	passive pen	N/A

2 SUMMARY OF TEST RESULTS

2.1 TEST RESULTS

TEST TYPE	Result
Radiated Emissions	Pass

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB

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

2.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,22	Aug.29,24
Pre-Amplifier	R&S	SCU18F1	100815	Aug.29,24	Aug.28,26
Pre-Amplifier	R&S	SCU08F1	101028	Sep.16,22	Sep.15,24
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Dec.26,23	Dec.25,25
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.21,24	Aug.20,26
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.21,24	Aug.20,26
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.22,24	Feb.21,26
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,22	Aug.30,24
DC Source	HYELEC	HY3010B	551016	Aug.30,24	Aug.29,26
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
Hygrothermograph	DELI	20210528	SZ014	Sep.05,24	Sep.04,26
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25

- NOTE:**
1. The calibration interval of the above test instruments is 12/24/36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Chamber.
 3. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 4. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 5. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2.4 REFERENCED STANDARDS

The following referenced standards are necessary for the report. For undated references in this report, the cited version applies.

No.	Identify	Note
1	FCC Part 15, Subpart C, Section 15.247	For BT
2	FCC PART 22, Subpart H	For WWAN
3	FCC PART 24, Subpart E	For WWAN
4	FCC Part 27	For WWAN

Note: More informations and test procedures pls refer to 15.247/Part22/Part24/ Part27 reports.

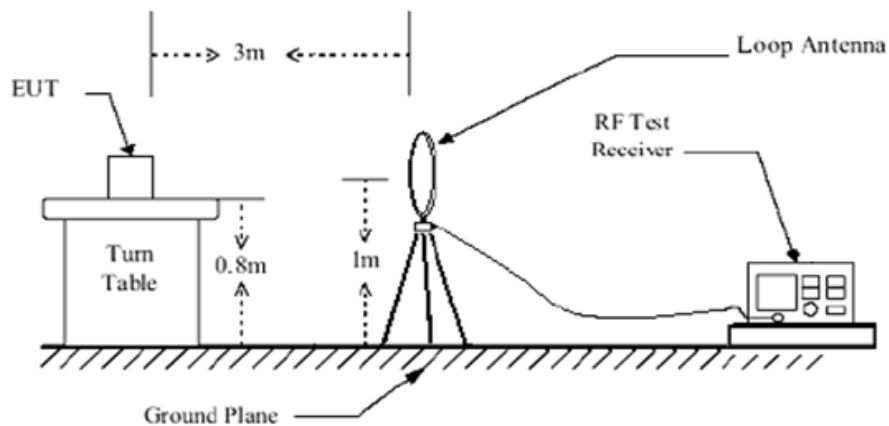
2.5 TEST CONFIGURATIONS

Test Configurations	Description
Worst case test Mode	
1	WLAN-2.4G-11N40-CH3+LTE-B26(PART 22)-MID-10M
2	WLAN-BT-3DH5-CH78+LTE-B25-MID-10M
3	WLAN-5G-11N20-CH140+LTE-B13-HIGH-5M
4	WLAN-5G-11N20-CH140+LTE-B26(PART 90S)-MID-3M

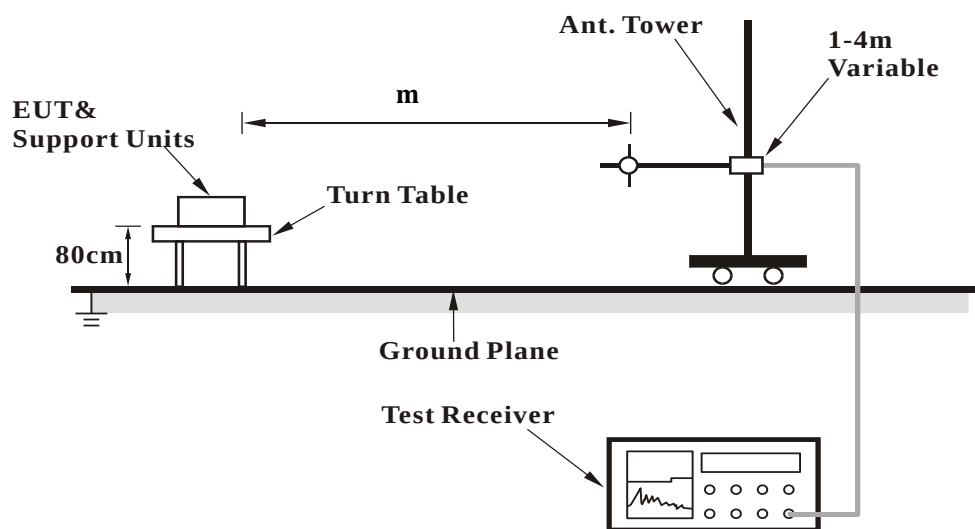
- Note:**
1. Test equipment and site refer to Referenced Standards report
 2. For higher frequency, the emission is 20dB below the limit was not record

2.6 TEST DATA

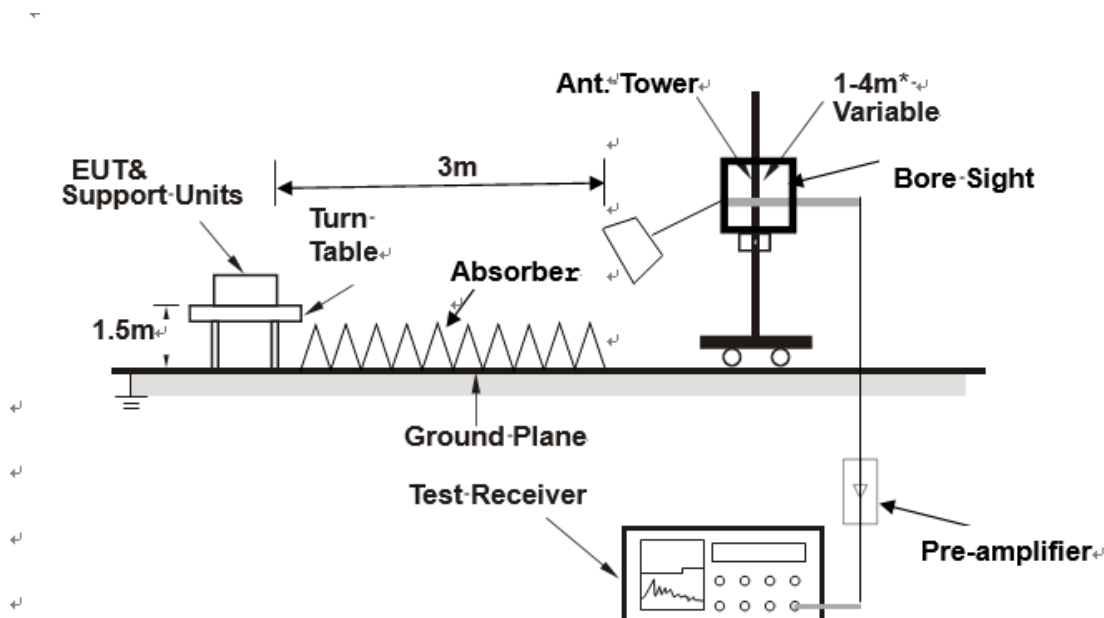
<Frequency Range 9KHz~30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

2.6.1 EUT OPERATING CONDITIONS

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

2.6.2 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

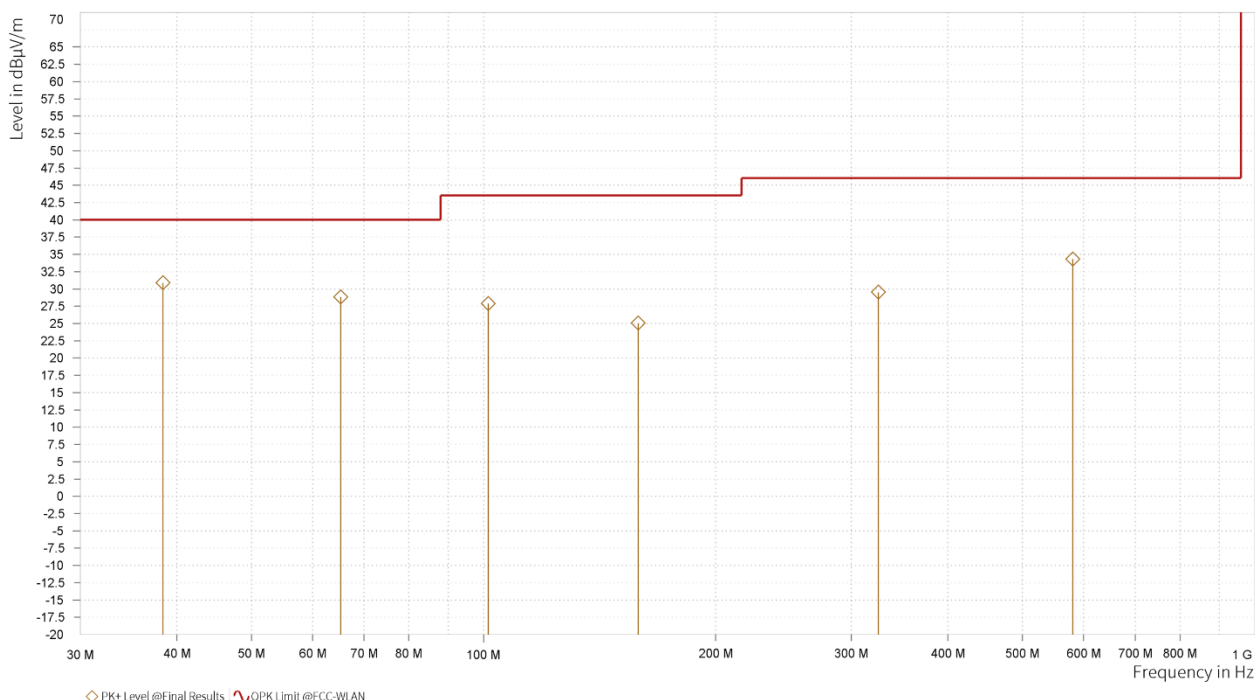
GSM 850 High 251+BT 2.0 8DPSK CH 0:

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

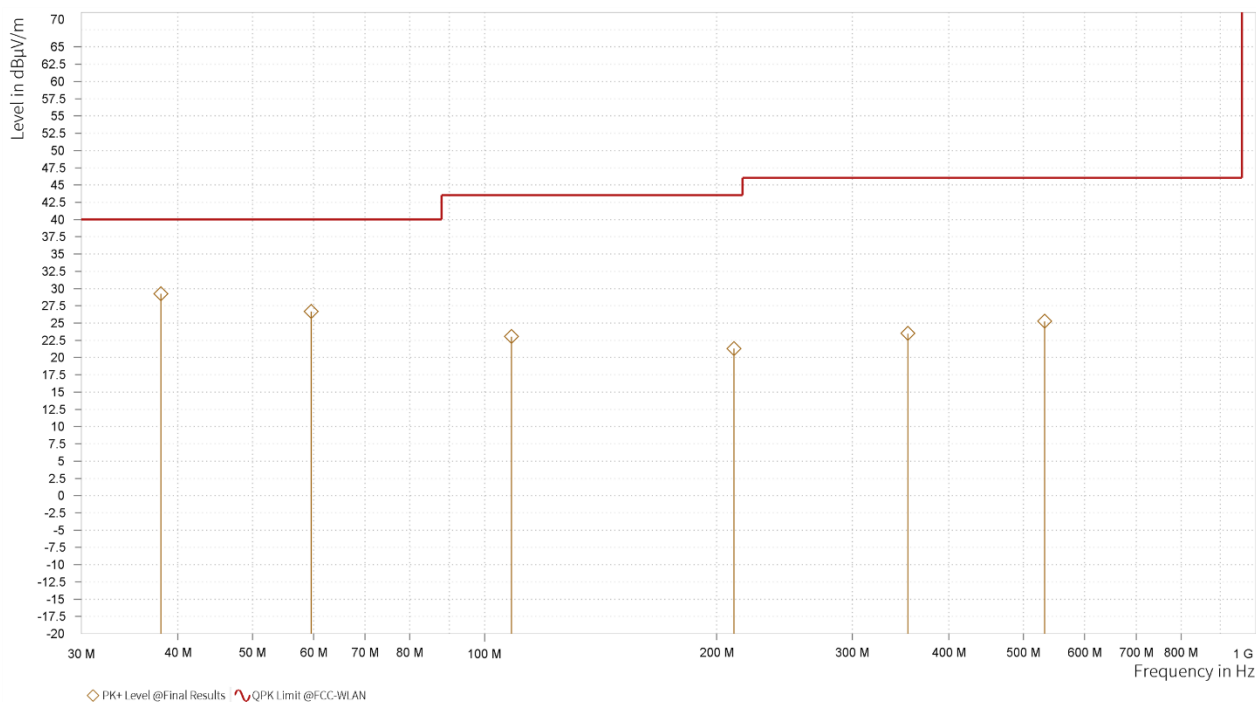
CHANNEL	WLAN-2.4G-11N40-CH3+LTE-B26(PART 22)-MID-10M	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	38.391	30.86	40.0	9.14	-13.17	H	97.7	2.0
1	65.26	28.83	40.0	11.17	-14.55	H	359.0	2.0
1	101.392	27.88	43.5	15.62	-13.92	H	0.9	2.0
1	158.671	25.04	43.5	18.46	-15.95	H	1.5	2.0
1	325.171	29.52	46.0	16.48	-10.68	H	230.3	2.0
1	580.766	34.3	46.0	11.7	-6.47	H	355.6	2.0



CHANNEL	WLAN-2.4G-11N40-CH3+LTE-B26(PART 22)-MID-10M	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	38.051	29.23	40.0	10.77	-13.24	V	1.8	2.0
1	59.585	26.67	40.0	13.33	-13.76	V	359.1	1.0
1	108.376	23.02	43.5	20.48	-13.62	V	1.8	2.0
1	210.663	21.28	43.5	22.22	-13.3	V	359.1	1.0
1	353.932	23.48	46.0	22.52	-9.65	V	1.0	2.0
1	532.363	25.25	46.0	20.75	-7.92	V	359.0	2.0

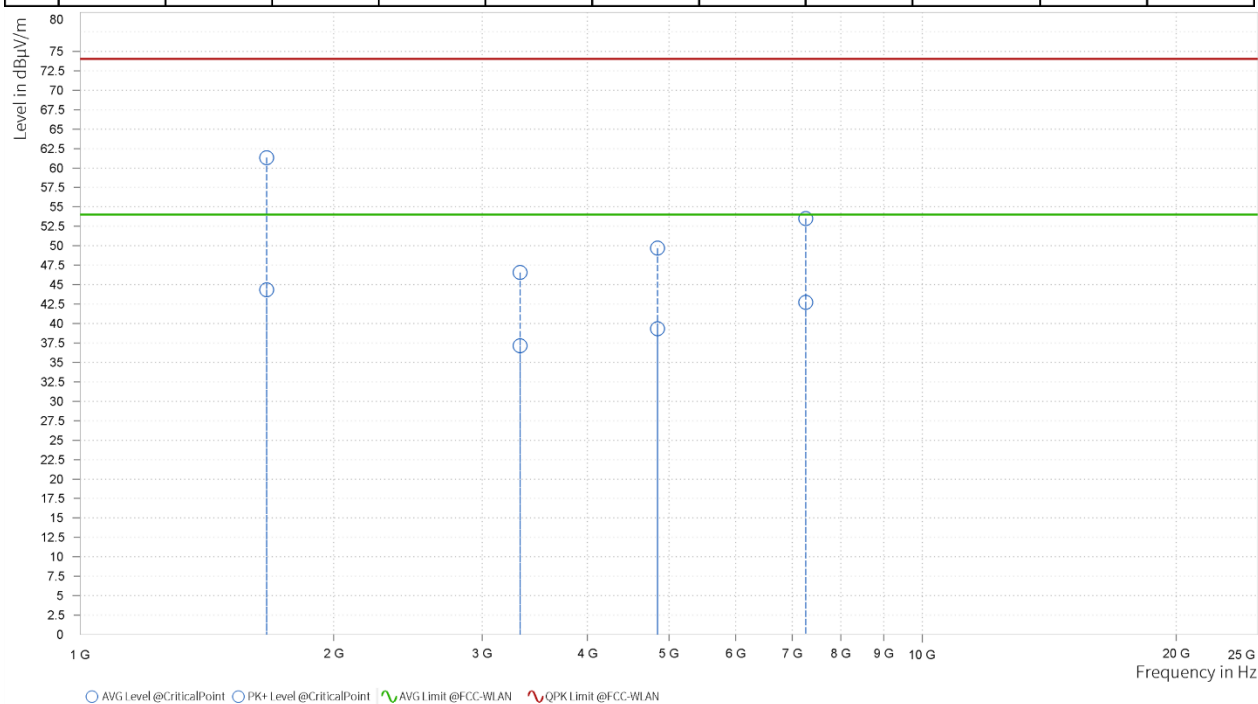


ABOVE 1GHz WORST-CASE DATA:

Note: 1. For radiated emissions testing, the full testing range of different modes have been scanned, only the worst case harmonic data is reported in the sheet.

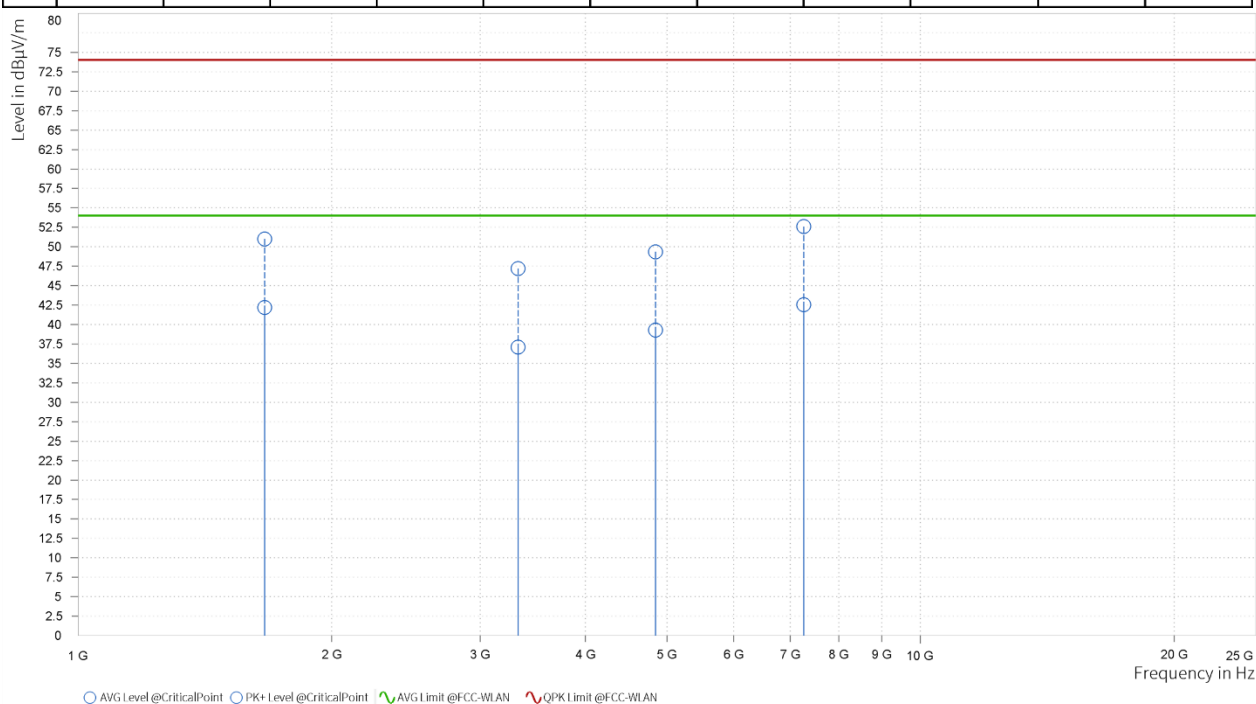
2. All other emissions that more than 20dB below the limit were not recorded

CHANNEL				WLAN-2.4G-11N40-CH3+LTE-B26(PART 22)-MID-10M			DETECTOR FUNCTION			Peak (PK)	
FREQUENCY RANGE				1GHz ~ 25GHz						Average (AV)	
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,664.000	61.32	74.0	12.68	44.35	54.0	9.65	6.34	H	5.1	1.0
3	3,328.000	46.56	74.0	27.44	37.13	54.0	16.87	12.24	H	1.0	1.0
3	4,844.000	49.68	74.0	24.32	39.34	54.0	14.66	13.87	H	0.9	2.0
3	7,266.000	53.52	74.0	20.48	42.74	54.0	11.26	17.58	H	0.9	2.0



CHANNEL	WLAN-2.4G-11N40-CH3+LTE-B26(PART 22)-MID-10M	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,664.000	51.01	74.0	22.99	42.18	54.0	11.82	6.34	V	359.0	2.0
3	3,328.000	47.2	74.0	26.8	37.1	54.0	16.9	12.24	V	1.0	2.0
3	4,844.000	49.35	74.0	24.65	39.3	54.0	14.7	13.87	V	126.2	2.0
3	7,266.000	52.59	74.0	21.41	42.53	54.0	11.47	17.58	V	1.0	2.0



Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

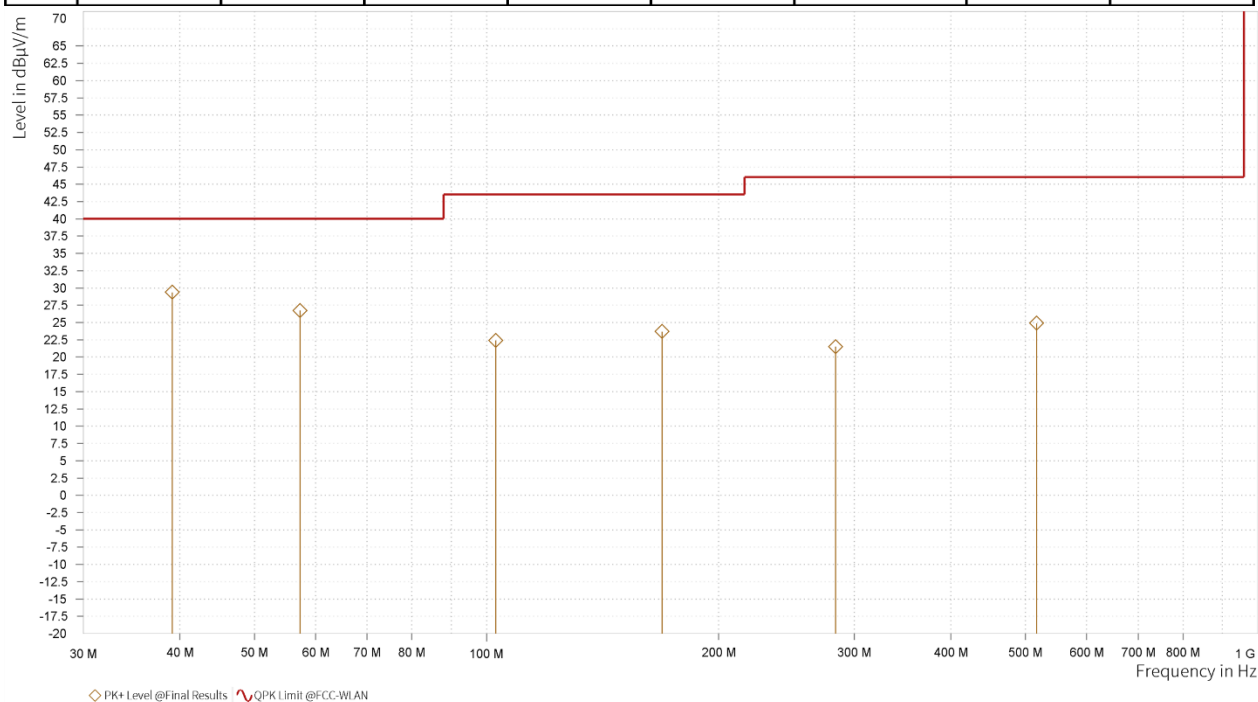
WLAN-BT-3DH5-CH78+LTE-B25-MID-10M:

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

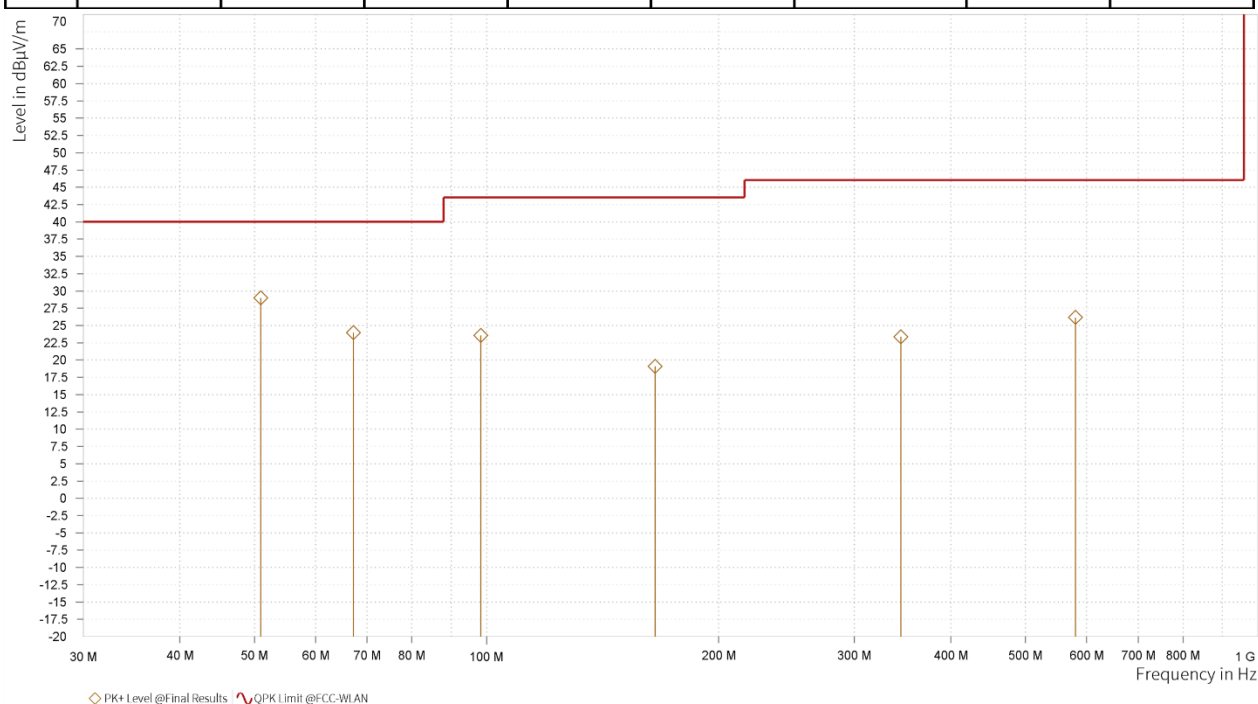
CHANNEL	WLAN-BT-3DH5-CH78+LTE-B25-MID-10M	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	39.118	29.36	40.0	10.64	-12.95	H	359.1	1.0
1	57.306	26.72	40.0	13.28	-13.33	H	230.3	2.0
1	102.799	22.4	43.5	21.1	-13.85	H	1.0	1.0
1	168.856	23.68	43.5	19.82	-15.77	H	128.6	1.0
1	283.413	21.48	46.0	24.52	-11.32	H	97.6	2.0
1	516.601	24.89	46.0	21.11	-7.92	H	230.3	2.0



CHANNEL	WLAN-BT-3DH5-CH78+LTE-B25-MID-10M	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	50.952	28.98	40.0	11.02	-12.11	V	1.0	1.0
1	67.2	23.96	40.0	16.04	-15.25	V	0.9	2.0
1	98.288	23.56	43.5	19.94	-14.31	V	359.1	1.0
1	165.315	19.08	43.5	24.42	-15.82	V	231.5	2.0
1	344.426	23.34	46.0	22.66	-10.13	V	129.8	1.0
1	580.378	26.14	46.0	19.86	-6.49	V	97.7	2.0



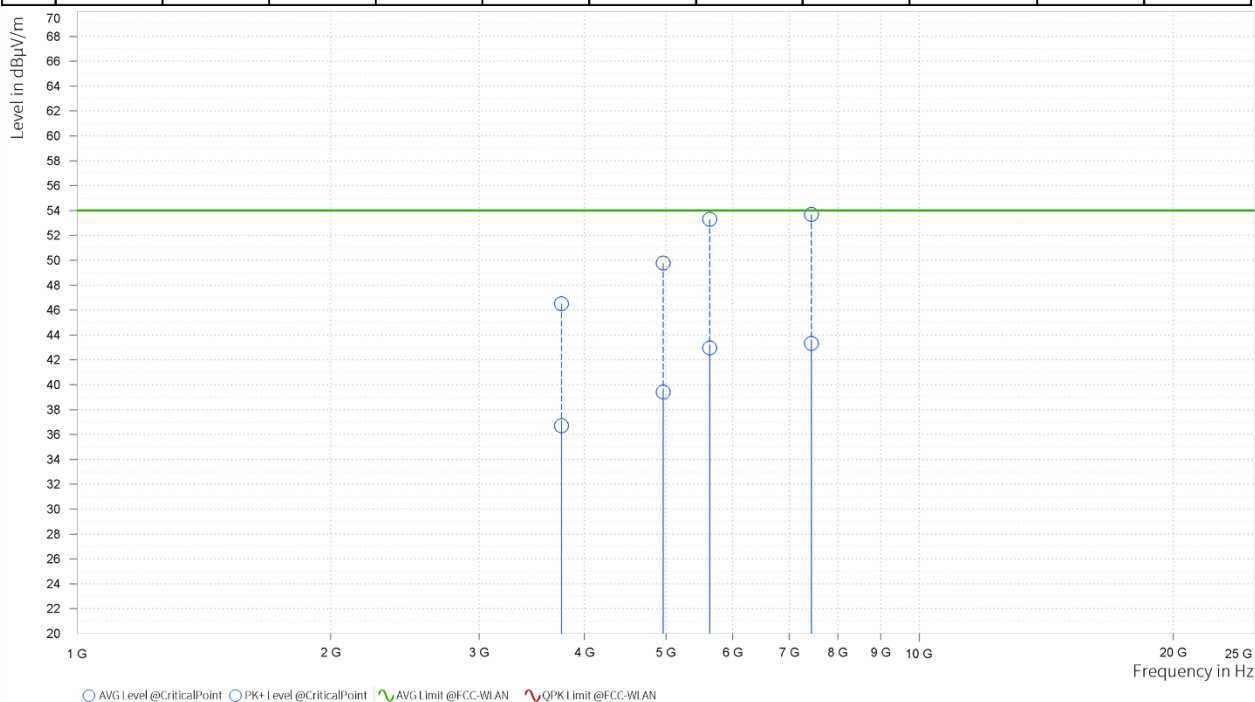
ABOVE 1GHz WORST-CASE DATA:

Note: 1. For radiated emissions testing, the full testing range of different modes have been scanned, only the worst case harmonic data is reported in the sheet.

2. All other emissions that more than 20dB below the limit were not recorded

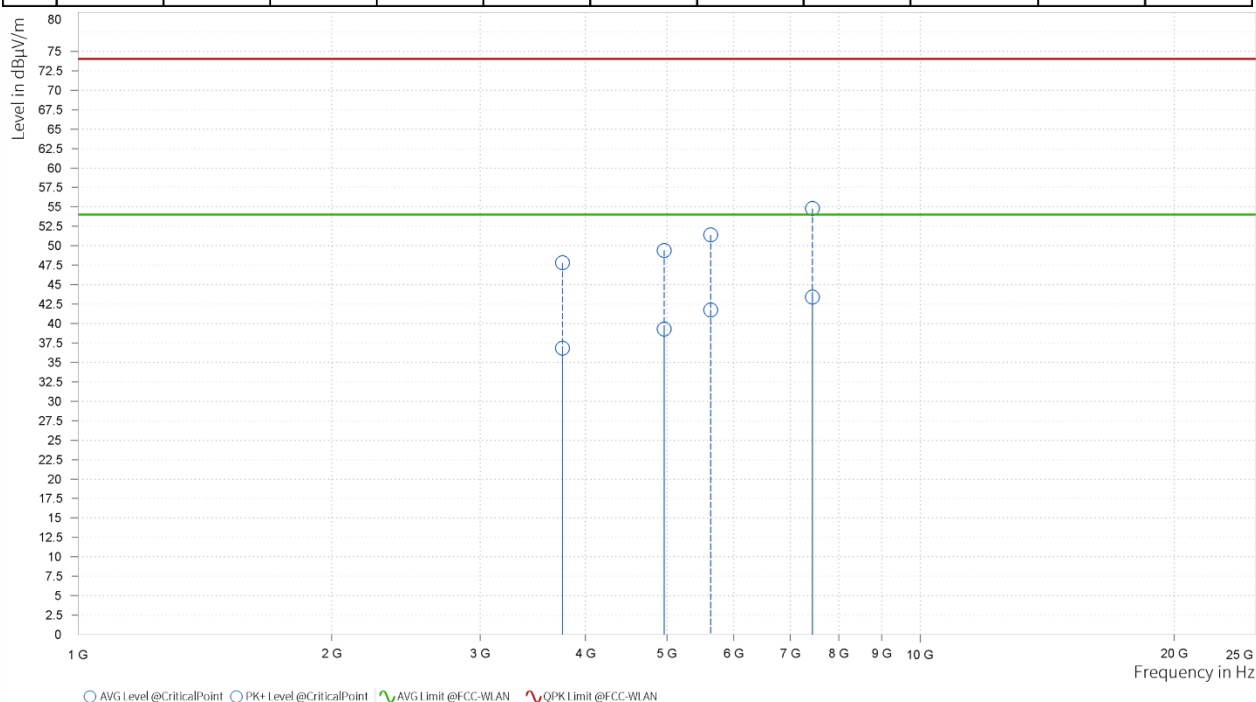
CHANNEL	WLAN-BT-3DH5-CH78+LTE-B25-MID-10M	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	3,756.000	46.52	74.0	27.48	36.72	54.0	17.28	12.39	H	0.9	2.0
3	4,960.000	49.77	74.0	24.23	39.42	54.0	14.58	13.52	H	235.1	1.0
3	5,634.000	53.29	74.0	20.71	42.97	54.0	11.03	17.16	H	359.0	2.0
3	7,440.000	53.68	74.0	20.32	43.32	54.0	10.68	18.23	H	359.0	2.0



CHANNEL	WLAN-BT-3DH5-CH78+LTE-B25-MID-10M	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	3,756.000	47.82	74.0	26.18	36.81	54.0	17.19	12.39	V	359.0	2.0
3	4,960.000	49.4	74.0	24.6	39.27	54.0	14.73	13.52	V	0.9	2.0
3	5,634.000	51.38	74.0	22.62	41.75	54.0	12.25	17.16	V	0.9	2.0
3	7,440.000	54.79	74.0	19.21	43.41	54.0	10.59	18.23	V	0.9	2.0



Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

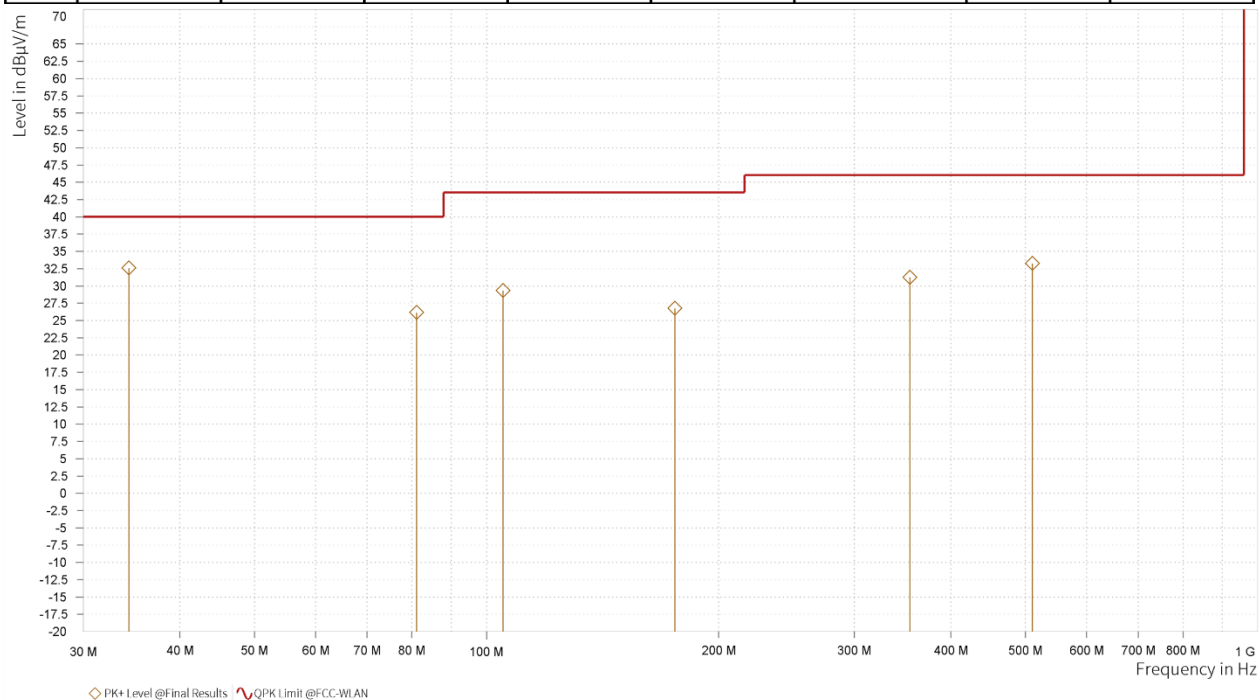
WLAN-5G-11N20-CH140+LTE-B13-HIGH-5M:

BELOW 1GHz WORST-CASE DATA:

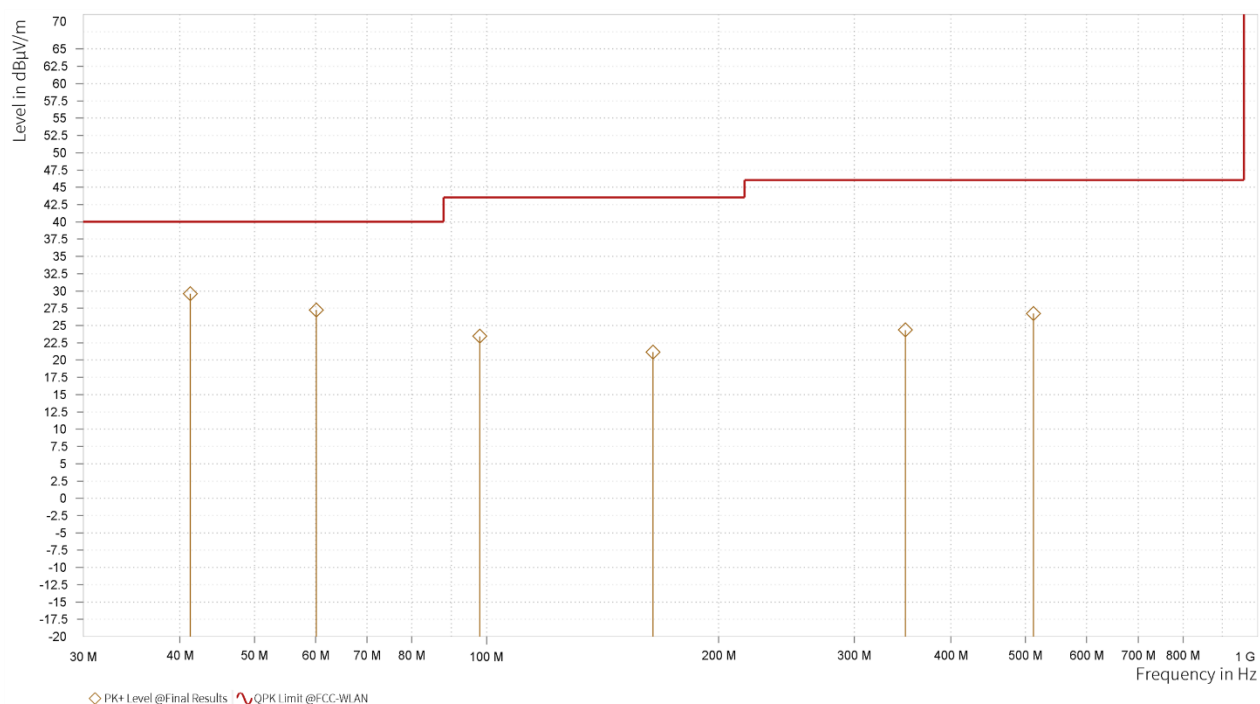
30 MHz – 1GHz data:

CHANNEL	WLAN-5G-11N20-CH140+LTE-B13-HIGH-5M	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	34.365	32.58	40.0	7.42	-14.53	H	1.0	1.0
1	81.168	26.15	40.0	13.85	-17.62	H	359.1	1.0
1	105.078	29.32	43.5	14.18	-13.53	H	359.1	1.0
1	175.452	26.75	43.5	16.75	-15.43	H	262.5	1.0
1	353.835	31.25	46.0	14.75	-9.65	H	1.7	2.0
1	510.15	33.24	46.0	12.76	-7.8	H	359.1	1.0



CHANNEL			WLAN-5G-11N20-CH140+LTE-B13-HIGH-5M		DETECTOR FUNCTION		Quasi-Peak (QP)	
FREQUENCY RANGE		30MHz ~ 1GHz						
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	41.301	29.58	40.0	10.42	-12.39	V	263.6	1.0
1	60.119	27.22	40.0	12.78	-13.91	V	263.6	1.0
1	97.997	23.42	43.5	20.08	-14.35	V	354.9	2.0
1	164.394	21.14	43.5	22.36	-15.85	V	359.1	1.0
1	349.13	24.34	46.0	21.66	-9.72	V	358.3	1.0
1	511.702	26.73	46.0	19.27	-7.82	V	0.9	2.0

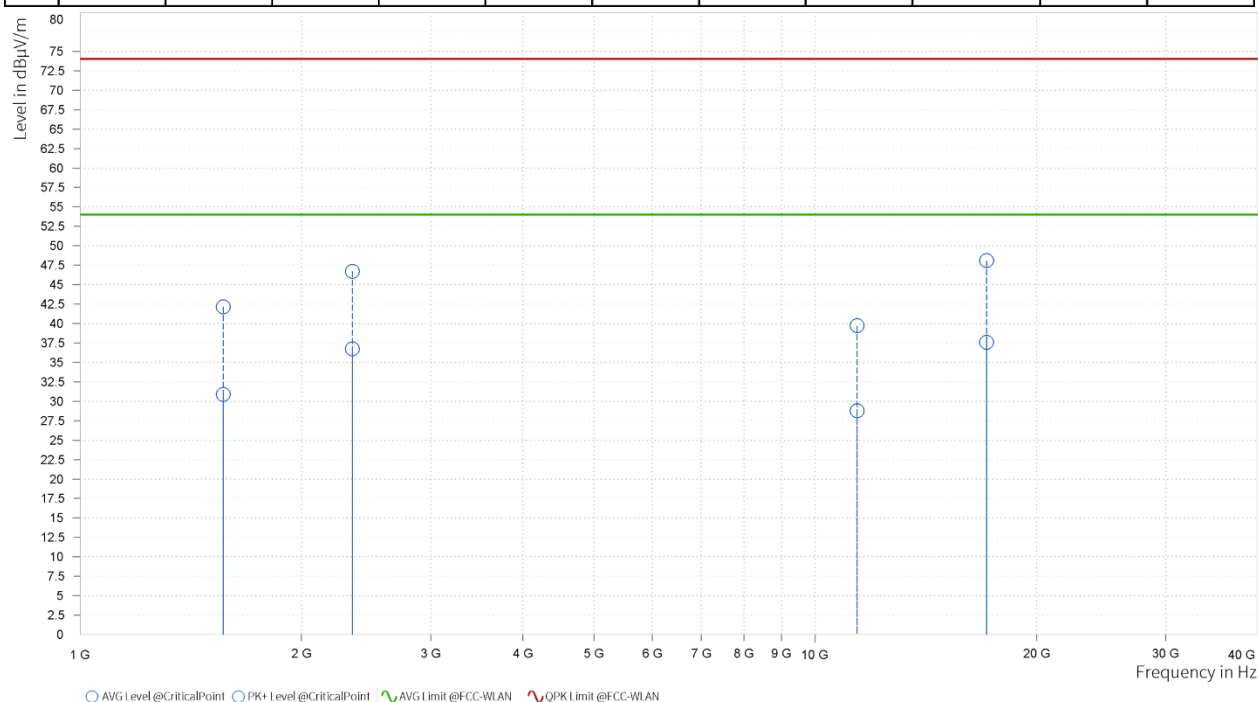


ABOVE 1GHz WORST-CASE DATA:

Note: 1. For radiated emissions testing, the full testing range of different modes have been scanned, only the worst case harmonic data is reported in the sheet.

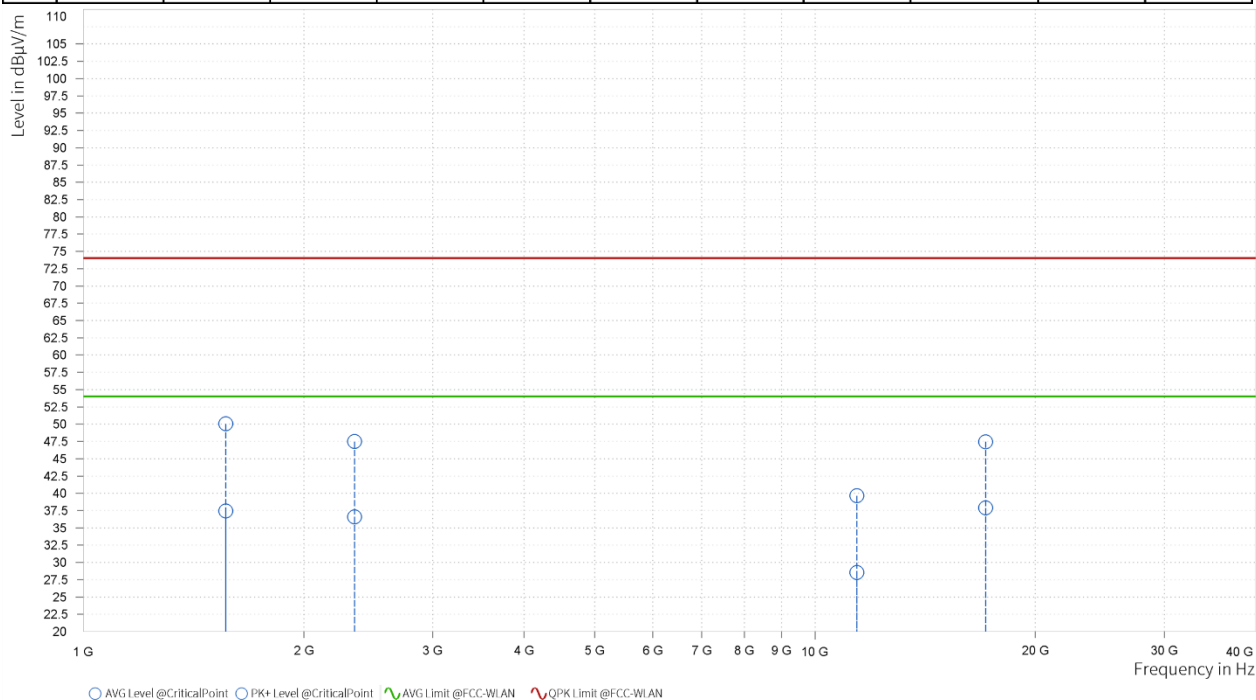
2. All other emissions that more than 20dB below the limit were not recorded

CHANNEL				WLAN-5G-11N20-CH140+LTE-B13-HIGH-5M			DETECTOR FUNCTION			Peak (PK)	
FREQUENCY RANGE				1GHz ~ 25GHz						Average (AV)	
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,564.500	42.15	74.0	31.85	30.9	54.0	23.1	4.62	H	359.0	2.0
1	2,346.750	46.71	74.0	27.29	36.76	54.0	17.24	11.2	H	359.1	1.0
4	11,400.000	39.73	74.0	34.27	28.8	54.0	25.2	13.17	H	1.0	1.0
4	17,100.000	48.09	74.0	25.91	37.6	54.0	16.4	22.5	H	1.0	1.0



CHANNEL	WLAN-5G-11N20- CH140+LTE-B13-HIGH-5M	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,565.400	50.05	74.0	23.95	37.47	54.0	16.53	4.62	V	1	2.0
1	2,346.750	47.48	74.0	26.52	36.57	54.0	17.43	11.2	V	1	2.0
4	11,400.000	39.64	74.0	34.36	28.56	54.0	25.44	13.17	V	1	1.0
4	17,100.000	47.47	74.0	26.53	37.9	54.0	16.11	22.5	V	1	1.0



Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

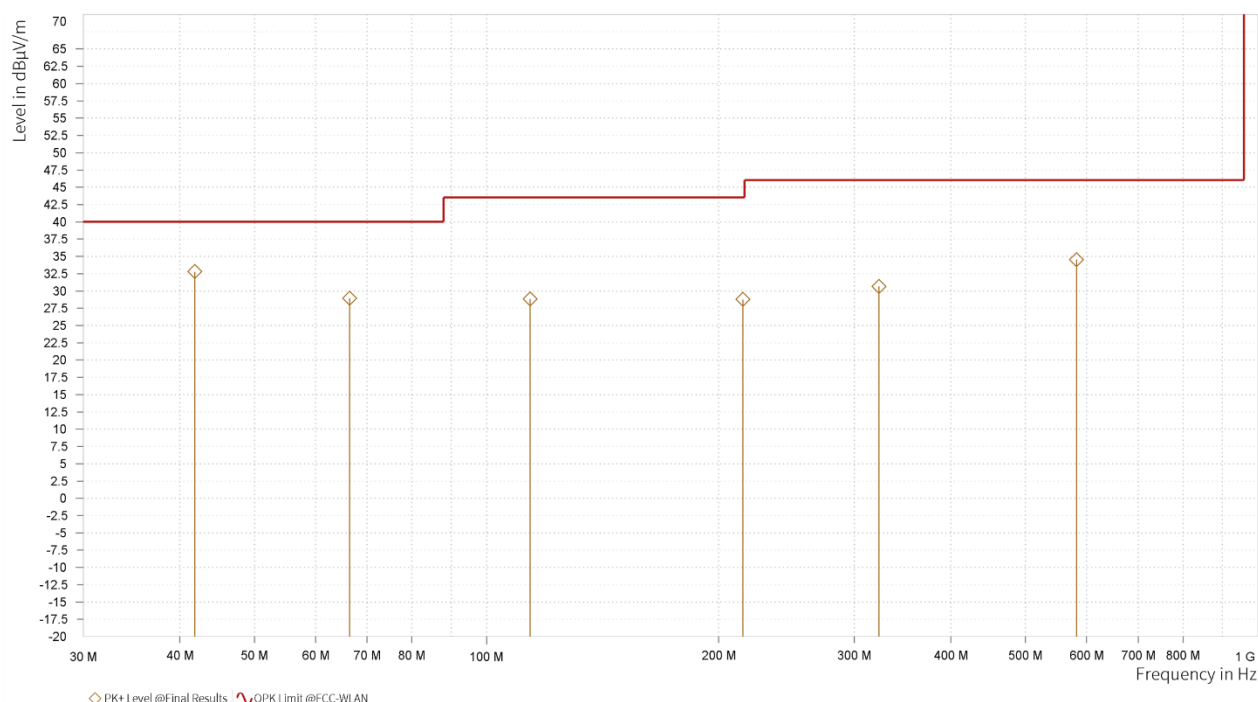
WLAN-5G-11N20-CH140+LTE-B26(PART 90S)-MID-3M:

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

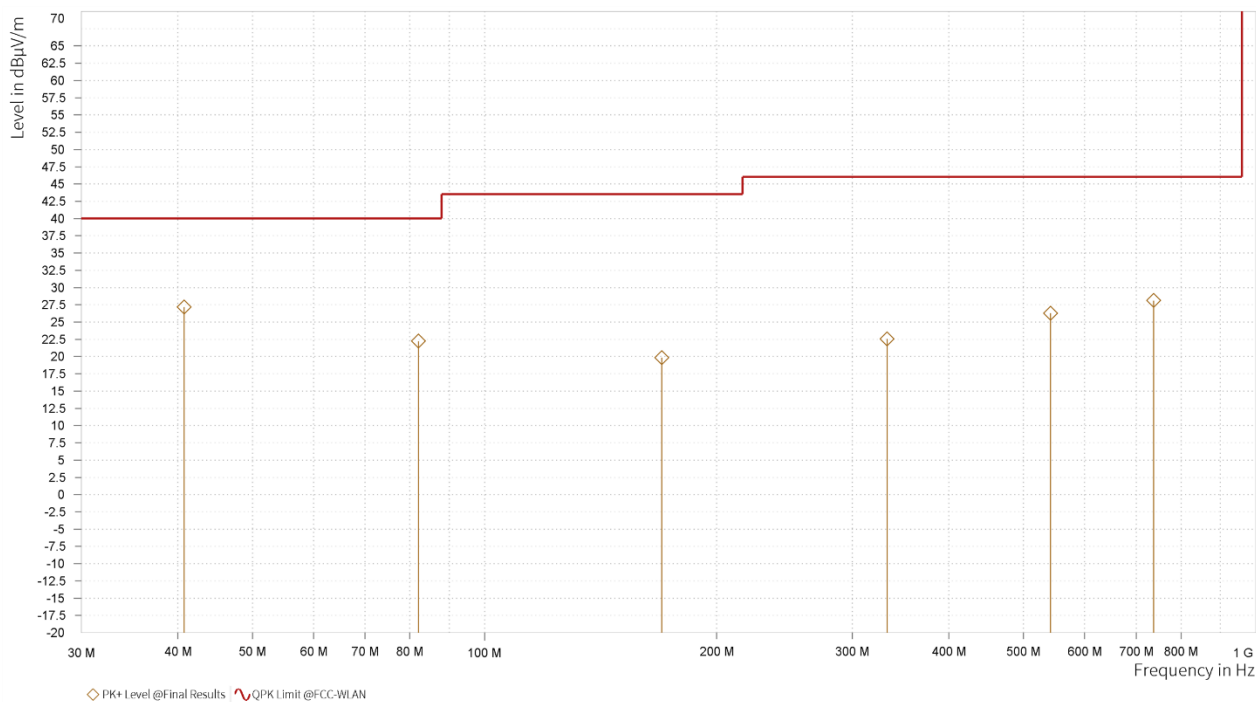
CHANNEL	WLAN-5G-11N20-CH140+LTE-B26(PART 90S)-MID-3M	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	41.834	32.78	40.0	7.22	-12.19	H	359.1	1.0
1	66.424	28.93	40.0	11.07	-14.9	H	232.7	2.0
1	113.857	28.85	43.5	14.65	-14.03	H	359.1	1.0
1	215.076	28.75	43.5	14.75	-13.09	H	359.1	1.0
1	322.601	30.63	46.0	15.37	-10.65	H	127.4	1.0
1	582.027	34.53	46.0	11.47	-6.43	H	98.8	2.0



CHANNEL	WLAN-5G-11N20- CH140+LTE-B26(PART 90S)-MID-3M	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	40.767	27.18	40.0	12.82	-12.54	V	359.1	1.0
1	82.041	22.22	40.0	17.78	-17.46	V	1.0	2.0
1	169.729	19.83	43.5	23.67	-15.76	V	1.0	2.0
1	332.543	22.54	46.0	23.46	-10.83	V	97.7	2.0
1	542.112	26.28	46.0	19.72	-7.33	V	355.0	2.0
1	737.47	28.11	46.0	17.89	-3.87	V	355.0	2.0

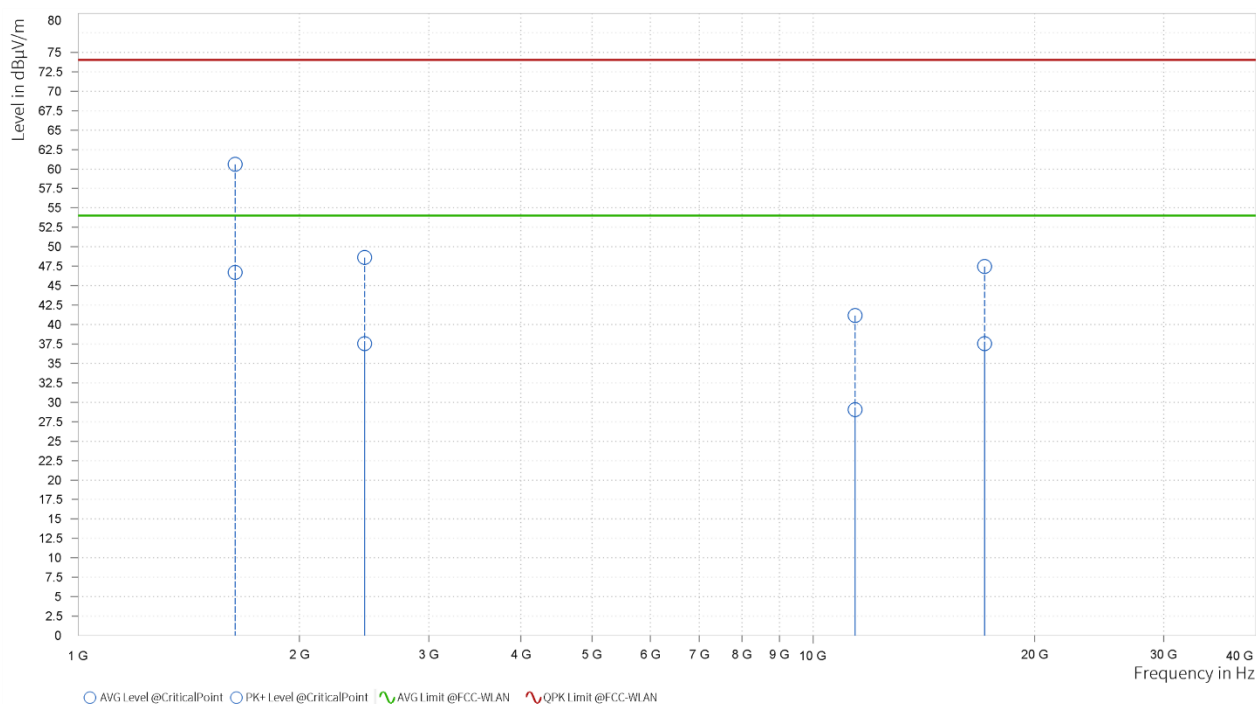


ABOVE 1GHz WORST-CASE DATA:

Note: 1. For radiated emissions testing, the full testing range of different modes have been scanned, only the worst case harmonic data is reported in the sheet.

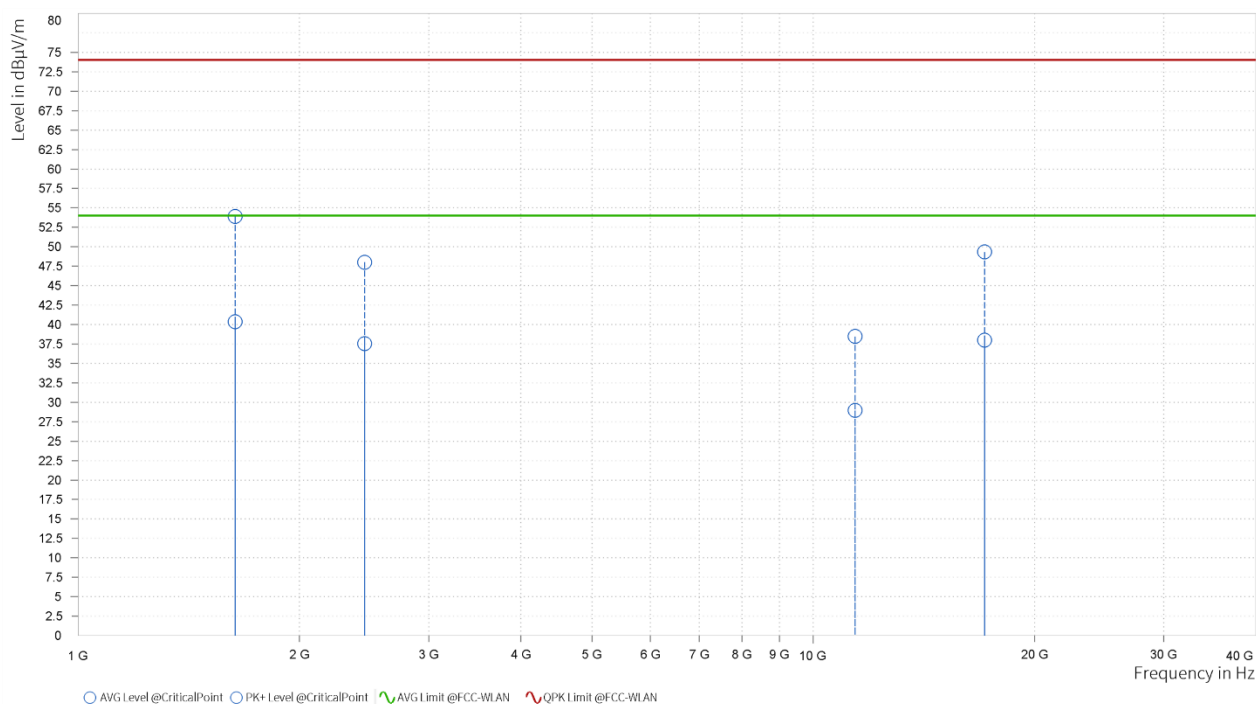
2. All other emissions that more than 20dB below the limit were not recorded

CHANNEL				WLAN-5G-11N20-CH140+LTE-B26(PART 90S)-MID-3M			DETECTOR FUNCTION			Peak (PK)	
FREQUENCY RANGE				1GHz ~ 25GHz						Average (AV)	
Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,635.500	60.59	74.0	13.41	46.7	54.0	7.3	6.17	H	359.1	1.0
1	2,452.950	48.62	74.0	25.38	37.53	54.0	16.47	12.11	H	5.1	1.0
4	11,400.000	41.14	74.0	32.86	29.06	54.0	24.94	13.17	H	1.0	1.0
4	17,100.000	47.45	74.0	26.55	37.54	54.0	16.46	22.5	H	1.0	1.0



CHANNEL	WLAN-5G-11N20-CH140+LTE-B26(PART 90S)-MID-3M	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	1,635.500	53.9	74.0	20.1	40.37	54.0	13.63	6.17	V	5.1	1.0
1	2,452.950	48.0	74.0	26.0	37.55	54.0	16.45	12.11	V	5.1	1.0
4	11,400.000	38.47	74.0	35.53	28.96	54.0	25.04	13.17	V	1.0	1.0
4	17,100.000	49.32	74.0	24.68	37.98	54.0	16.02	22.5	V	1.0	1.0



Note: For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

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