

TEST REPORT


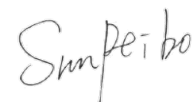
Applicant:	Cohda Wireless Pty Ltd.
Address:	27 Greenhill Road Wayville SA 5034 Australia

Manufacturer or Supplier:	Cohda Wireless Pty Ltd.
Address:	27 Greenhill Road Wayville SA 5034 Australia
Product:	Road-Side (Transceiver) Unit for infrastructure.
Brand Name:	Cohda Wireless
Model Name:	MK6 RSU
FCC ID:	2AEGPMK6RSU
Date of tests:	Jun. 26, 2023 ~ Nov. 03, 2023

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 C63.10-2013
☒ FCC Part 15, Subpart E, Section 15.407
☒ FCC Part 22 ☒ FCC Part 24
☒ FCC Part 27 ☒ FCC Part 90, Subpart M
☒ FCC Part 2 ☒ ANSI/TIA/EIA-603-D
☒ ANSI/TIA/EIA-603-E ☒ ANSI C63.26-2015

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

Prepared by Chao Wu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
	
Date: Nov. 03, 2023	Date: Nov. 03, 2023

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-QSU2306260109RF11	Original release	Nov. 03, 2023

1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	Road-Side (Transceiver) Unit for infrastructure.	
BRAND NAME*	Cohda Wireless	
MODEL NAME*	MK6 RSU	
NOMINAL VOLTAGE*	48Vdc(POE Adapter)	
MODULATION TYPE	BT_LE	GFSK
	Bluetooth	GFSK, $\pi/4$ -DQPSK, 8DPSK
	WLAN	DSSS, OFDM
	GPS/GALILEO/GLO NASS/BDS	BPSK
	GSM/GPRS/EDGE	GMSK, 8PSK
	WCDMA	HSDPA/HSUPA/DC-HSDPA/HSPA+
	LTE	QPSK/16QAM/64QAM
	5G NR	DFT-s-OFMA(Pi/2BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFMA(QPSK,16QAM,64QAM,256QAM);
	DSRC	BPSK,QPSK,16QAM,64QAM
OPERATING FREQUENCY	Bluetooth/BT_LE	2402MHz ~ 2480MHz
	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20/40) 5180 ~ 5240MHz, 5260~5320 MHz, 5500~5720 MHz , 5745 ~ 5825 MHz for 11a/ n(HT20)/ n(HT40) / ac(VHT20)/ ac(VHT40) / ac(VHT80)
	GPS/GALILEO/GLO NASS/BDS	1559MHz ~ 1610MHz
	GSM/GPRS/EDGE	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)

OPERATING FREQUENCY	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) 706.5MHz ~ 713.5MHz (FOR LTE Band17) 1850.7MHz ~ 1914.3 MHz (FOR LTE Band25) DL:717MHz ~ 728MHz (FOR LTE Band29) DL:2307.5MHz ~ 2312.5MHz (FOR LTE Band30) 2498.5MHz~ 2687.5MHz (FOR LTE Band41) 1710.7MHz ~ 1779.3MHz (FOR LTE Band66) 665.5MHz ~695.5MHz (FOR LTE Band71)
	5G NR	SA: N2 (1852.5MHz ~1907.5MHz) N5 (826.5MHz ~ 846.5MHz) N25 (1852.5MHz ~ 1912.5MHz) N66 (1712.5 ~ 1777.5MHz) N71 (665.5 ~ 695.5MHz) N77(Part27Q)(3460.02MHz ~ 3540MHz) N77(Part27O)(3710.01MHz ~ 3969.99MHz) N78(Part27Q)(3460.02 ~ 3540MHz) N78(Part27O)(3710.01 ~ 3789.99MHz) NSA: DC_2A-n77A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_2A-n77A(Part 27O) (3710.01MHz ~ 3969.99MHz) DC_5A-n77A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_5A-n77A(Part 27O) (3710.01MHz ~ 3969.99MHz) DC_7A-n77A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_7A-n77A(Part 27O) (3710.01MHz ~ 3969.99MHz) DC_12A-n77A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_12A-n77A(Part 27O) (3710.01MHz ~ 3969.99MHz) DC_66A-n77A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_66A-n77A(Part 27O) (3710.01MHz ~ 3969.99MHz) DC_2A-n78A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_2A-n78A(Part 27O) (3710.01MHz ~ 3789.99MHz) DC_5A-n78A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_5A-n78A(Part 27O) (3710.01MHz ~ 3789.99MHz) DC_7A-n78A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_7A-n78A(Part 27O) (3710.01MHz ~ 3789.99MHz)

		DC_12A-n78A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_12A-n78A(Part 27O) (3710.01MHz ~ 3789.99MHz) DC_66A-n78A(Part 27Q) (3460.02MHz ~ 3540MHz) DC_66A-n78A(Part 27O) (3710.01MHz ~ 3789.99MHz)
	DSRC	5855 MHz – 5925 MHz
HW VERSION*	Rev 1.0	
SW VERSION*	19.Release.134186	
I/O PORTS*	Refer to user's manual	
CABLE SUPPLIED*	N/A	
ACCESSORY DEVICES*	Refer to note as below	

NOTE:

1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	MANUFACTURER	MODEL
2x Antenna for LTE/2G/3G/CDMA	Taoglas	TG.80.4H31
1x Antenna for WLAN/BT	HUBER+SUHNER	1399.17.0224
1x Antenna for WLAN	HUBER+SUHNER	1399.17.0224
2x Antenna for DSRC	Taoglas	TD.80.6H31
1x Antenna for GNSS	Taoglas	TLS.40.1F11
1xM12 field attachable connector	Amphenol	MSXS-08BMMD-SL8001

2 SUMMARY OF TEST RESULTS

2.1 TEST RESULTS

TEST TYPE	Result	Test lab*
Radiated Emissions	Pass	A

*Test Lab Information Reference

Lab A:

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

Lab Address:

Tower N, Innovation Center, 88 Zhuyi 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~1GMHz)	±4.98dB
Radiated emissions & Radiated Power (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±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	SCU08F1	101028	Sep.16,22	Sep.15,24
Signal Generator	R&S	SMB100A	182185	Feb.16,22	Feb.15,24
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
EMI TEST Receiver	R&S	ESW44	101973	Feb.25,22	Feb.24,24
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Feb.28,22	Feb.27,24
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,22	Aug.21,24
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Feb.23,22	Feb.22,24
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,22	Aug.21,24
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,22	Feb.22,24
WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.27,22	Jun.26,24
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
Hygrothermograph	DELI	20210528	SZ014	Sep.06,22	Sep.05,24
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.28,23	Oct.27,23
CABLE	R&S	W13.02	N/A	Oct.27,23	Apr.26,24
CABLE	R&S	W12.14	N/A	Apr.28,23	Oct.27,23
CABLE	R&S	W12.14	N/A	Oct.27,23	Apr.26,24

- NOTE:**
- 1.The calibration interval of the above test instruments is 6 months or 24 months or 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.

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 2.4G WIFI&BT
2	FCC Part 15, Subpart E, Section 15.407	For 5G WIFI
3	FCC PART 22, Subpart H	For WWAN
	FCC PART 24, Subpart E	For WWAN
4	FCC Part 27	For WWAN
	FCC PART 90M	For DSRC

Note: More informations and test procedures pls refer to 15.247/15.407/Part22/Part24/ Part27/90M reports.

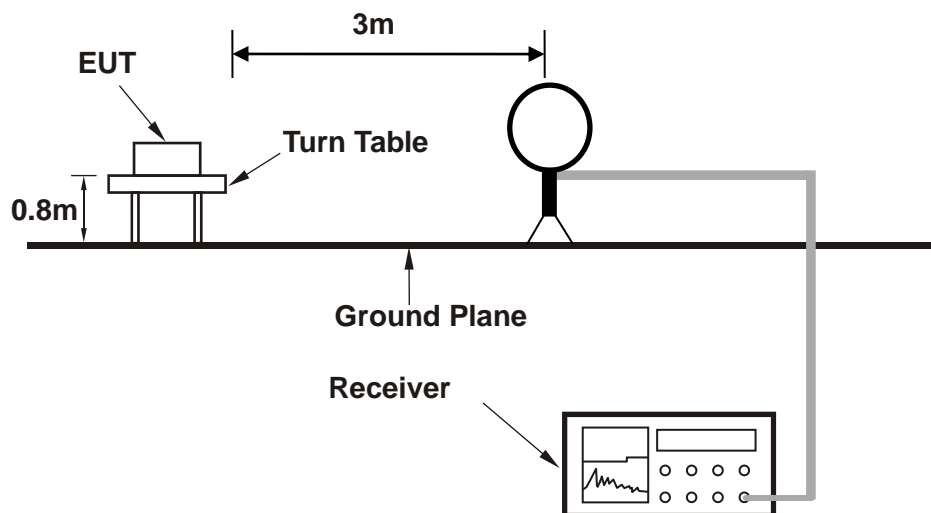
2.5 TEST CONFIGURATIONS

Test Configurations	Description
Worst case test Mode	
1	GSM1900_LINK+BT2.0_GFSK_TX_CH0
2	WCDMA_B2_LINK+2.4G_WIFI_11G_TX_CH6
3	LTE_B5_LINK+5G_WIFI_11AC20_TX_CH116
4	NR_N78_LINK+5G_WIFI_11AC20_TX_CH157
5	2.4G_WIFI_11G_TX_CH6+5G_WIFI_11AC20_TX_CH116

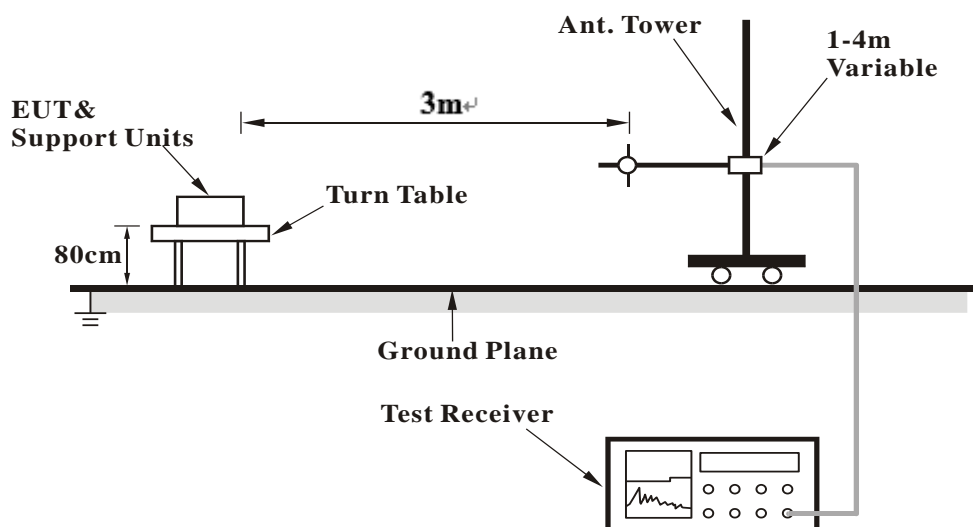
- Note:**
1. Test equipment and site refer to Referenced Standards report
 2. For higher frequency, the emission is 20dB below the limit was not record

2.6 TEST DATA

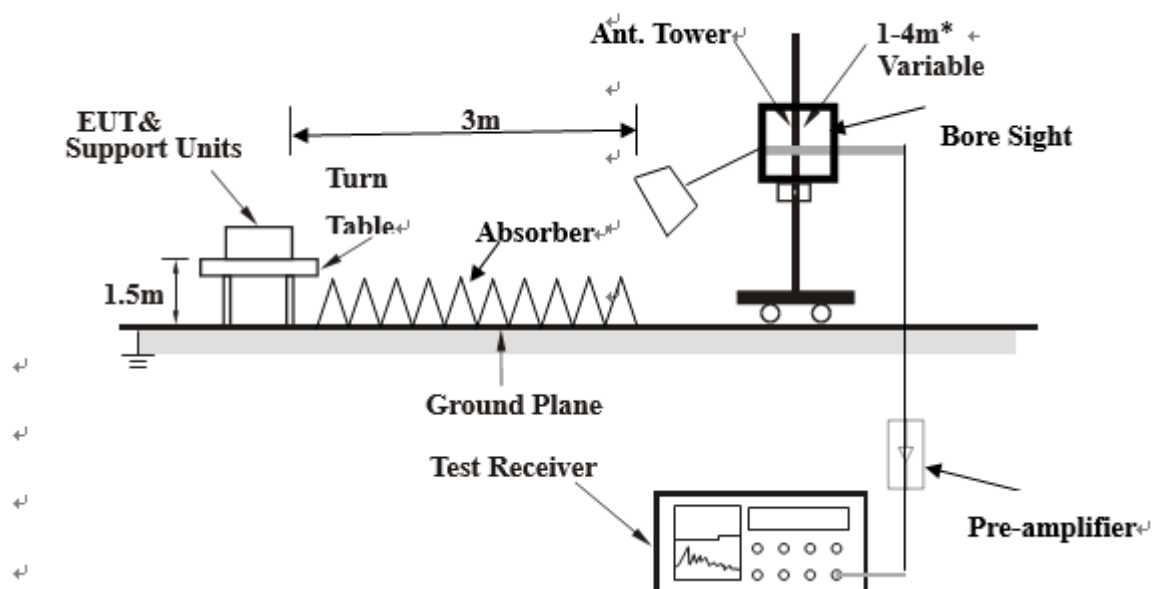
<Frequency Range 9KHz~30MHz >



< 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.

GSM1900_LINK+BT2.0_GFSK_TX_CH0:

BELOW 1GHz WORST-CASE DATA:

30MHz – 1GHz data:

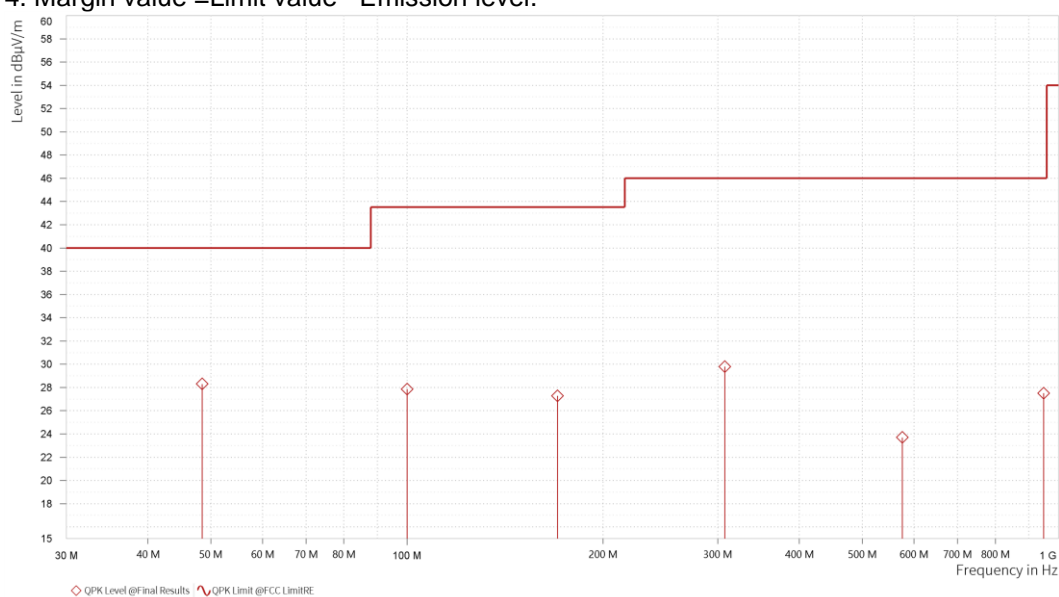
CHANNEL	GSM1900_LINK+BT2.0_GFSK_TX_CH0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M
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Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	48.479	28.29	40.00	11.71	-7.43	H	359.1	1	120.000
1	100.083	27.85	43.50	15.65	-9.33	H	99.8	2	120.000
1	170.214	27.27	43.50	16.23	-11.14	H	99.8	2	120.000
1	307.517	29.79	46.00	16.21	-5.43	H	126.2	1	120.000
1	575.916	23.69	46.00	22.31	-2.49	H	354.9	2	120.000
1	948.833	27.50	46.00	18.50	3.31	H	99.8	2	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value =Limit value– Emission level.



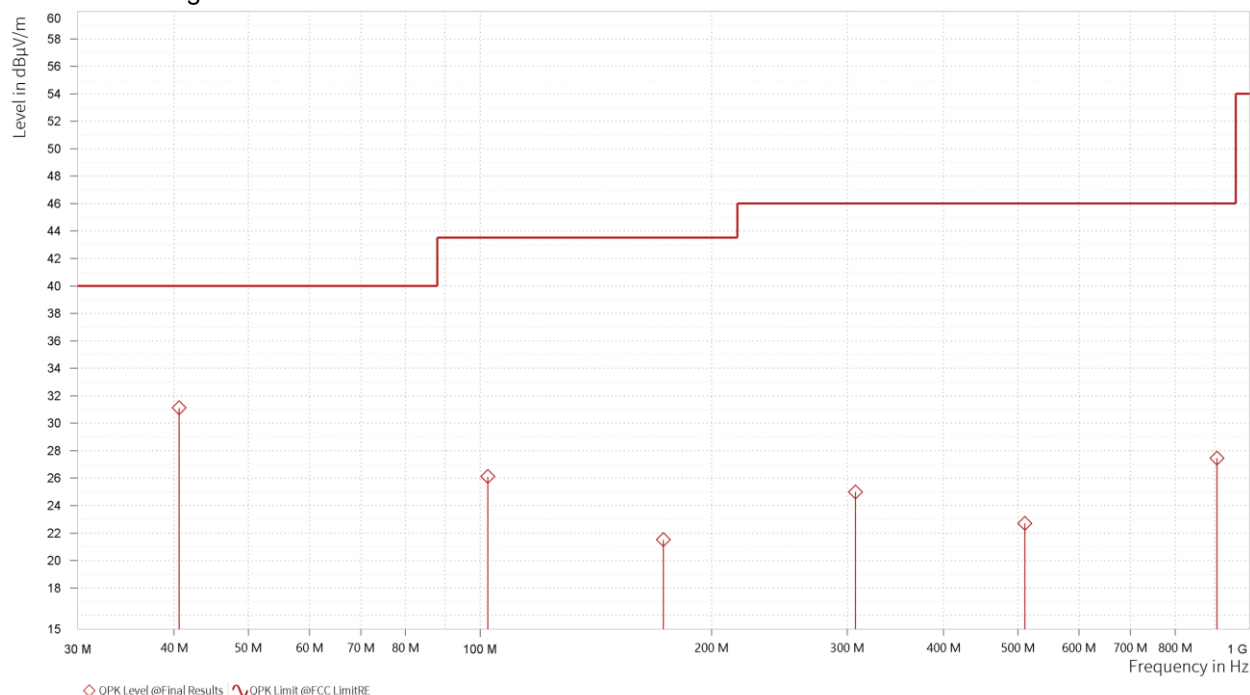
CHANNEL	GSM1900_LINK+BT2.0_G FSK_TX_CH0	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	40.622	31.11	40.00	8.89	-8.21	V	1.8	2	120.000
1	102.314	26.10	43.50	17.40	-9.17	V	99.8	2	120.000
1	172.978	21.50	43.50	22.00	-11.01	V	359	2	120.000
1	307.566	24.98	46.00	21.02	-5.42	V	127.4	1	120.000
1	510.053	22.70	46.00	23.30	-3.45	V	355	2	120.000
1	906.492	27.45	46.00	18.55	2.98	V	355	2	120.000

REMARKS:

1. Emission level (dBμV/m) = Read level (dBμV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Limit value - Emission level.



ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

CHANNEL	GSM1900_LINK+BT2.0_G FSK_TX_CH0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 18GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

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	3,760.000	51.01	74.00	22.99	38.56	54.00	15.44	15.05	H	359.1	1
3	4,805.000	51.49	74.00	22.51	39.12	54.00	14.88	15.18	H	230.2	1
3	5,640.000	50.71	74.00	23.29	39.97	54.00	14.03	16.46	H	230.2	2
4	7,207.000	59.32	74.00	14.68	46.64	54.00	7.36	24.38	H	342.2	2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

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	3,760.000	49.21	74.00	24.79	38.33	54.00	15.67	15.05	V	359.1	2
3	4,803.500	49.75	74.00	24.25	39.11	54.00	14.89	15.16	V	359.1	1
3	5,639.500	50.70	74.00	23.30	39.93	54.00	14.07	16.46	V	359.1	2
4	7,205.500	59.40	74.00	14.60	46.88	54.00	7.12	24.37	V	359.1	2

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value =Limit value– Emission level.

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

WCDMA_B2_LINK+2.4G_WIFI_11G_TX_CH6:

BELOW 1GHz WORST-CASE DATA:

30MHz – 1GHz data:

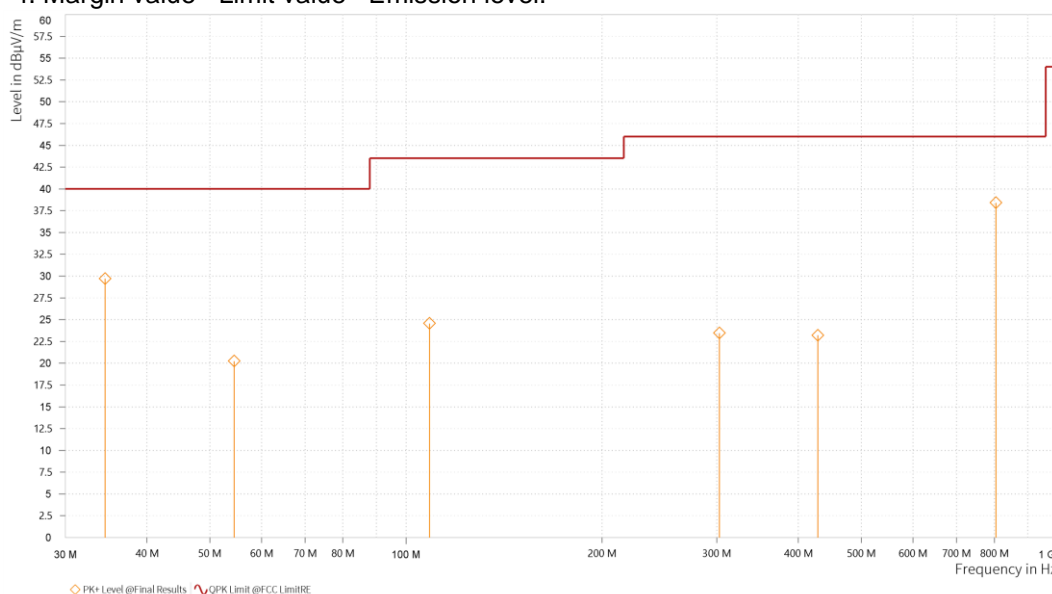
CHANNEL	WCDMA_B2_LINK+2.4G_WIFI_11G_TX_CH6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+: QPK Limit [dBμV/m]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	34.511	40.00	-11.82	H	358.4	1	120.000
1	54.444	40.00	-9.35	H	129.8	1	120.000
1	108.619	43.50	-10.27	H	129.8	1	120.000
1	302.667	46.00	-7.75	H	129.8	1	120.000
1	428.476	46.00	-4.62	H	359	1	120.000
1	804.206	46.00	2.02	H	263.6	1	120.000

REMARKS:

1. Emission level (dBμV/m) = Read level (dBμV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission level.



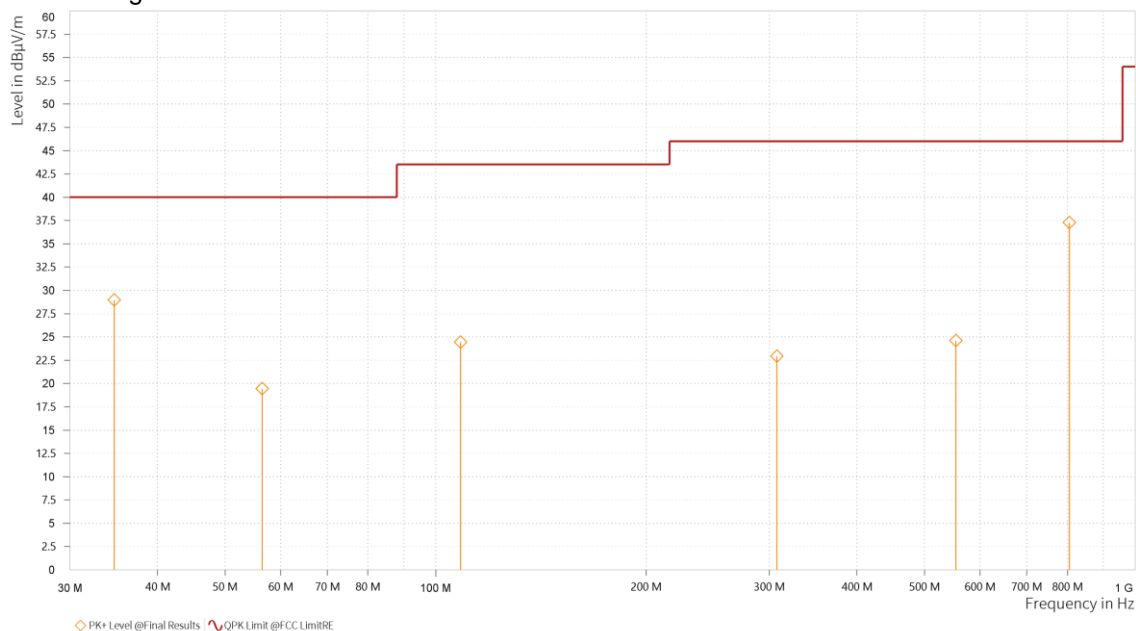
CHANNEL	WCDMA_B2_LINK+2.4 G_WIFI_11G_TX_CH6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+: QPK Limit [dBμV/m]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	34.705	40.00	-11.78	V	1	1	120.000
1	56.481	40.00	-9.76	V	358.5	1	120.000
1	108.570	43.50	-10.26	V	129.8	1	120.000
1	307.517	46.00	-7.61	V	129.8	1	120.000
1	554.382	46.00	-2.30	V	129.8	1	120.000
1	805.224	46.00	2.04	V	359.1	1	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value =Limit value– Emission level.



ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

CHANNEL	WCDMA_B2_LINK+2.4G_ WIFI_11G_TX_CH6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

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]
2	3,760.000	48.65	74.00	25.35	38.86	54.00	15.14	13.03	H	90.2	1
2	4,874.000	49.89	74.00	24.11	39.54	54.00	14.46	15.25	H	359.1	1
2	5,640.000	52.49	74.00	21.51	41.39	54.00	12.61	17.47	H	359.1	1
2	7,311.000	56.51	74.00	17.49	45.64	54.00	8.36	21.10	H	325.7	1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

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]
2	3,759.500	48.67	74.00	25.33	38.71	54.00	15.29	13.03	V	328.2	1
2	4,874.000	50.60	74.00	23.40	39.50	54.00	14.50	15.25	V	359	1
2	5,640.000	51.73	74.00	22.27	41.51	54.00	12.49	17.47	V	1	1
2	7,311.500	55.95	74.00	18.05	45.60	54.00	8.40	21.10	V	90.2	1

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value =Limit value– Emission level.

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

LTE_B5_LINK+5G_WIFI_11AC20_TX_CH116:

BELOW 1GHz WORST-CASE DATA:

30MHz – 1GHz data:

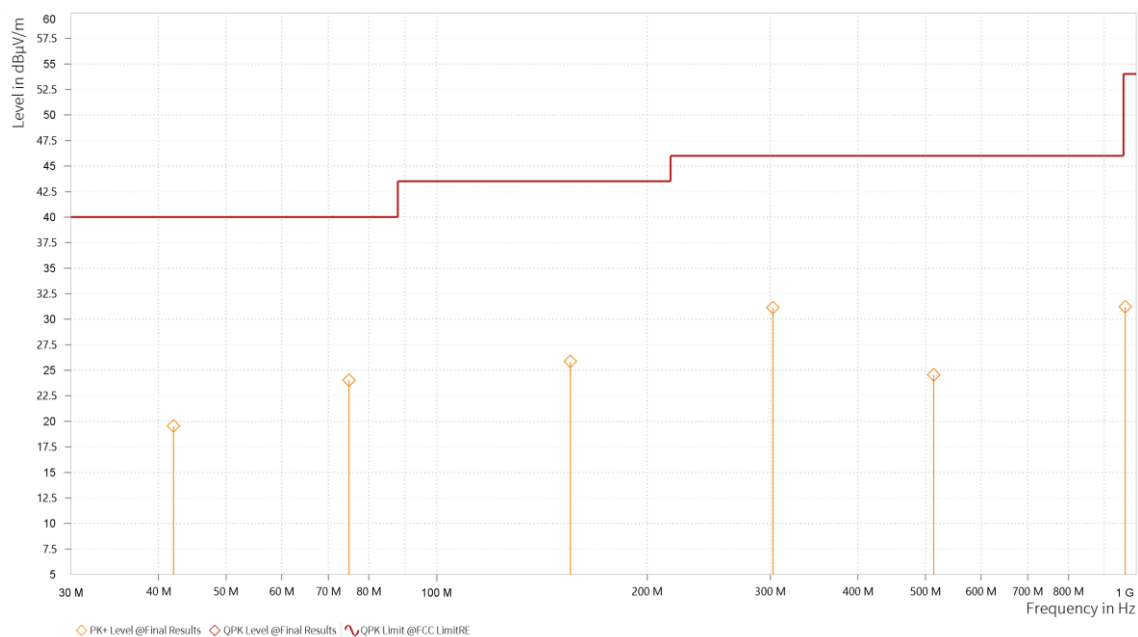
CHANNEL	LTE_B5_LINK+5G_WIFI_11AC20_TX_CH116	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	42.028	19.54	40.00	20.46	-9.22	H	359	1	120.000
1	74.960	24.02	40.00	15.98	-14.52	H	266.1	1	120.000
1	155.276	25.86	43.50	17.64	-13.27	H	1	1	120.000
1	302.473	31.12	46.00	14.88	-7.75	H	266.1	1	120.000
1	513.545	24.54	46.00	21.46	-3.04	H	266.1	1	120.000
1	964.304	31.21	54.00	22.79	4.02	H	5.8	1	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value =Limit value– Emission level.



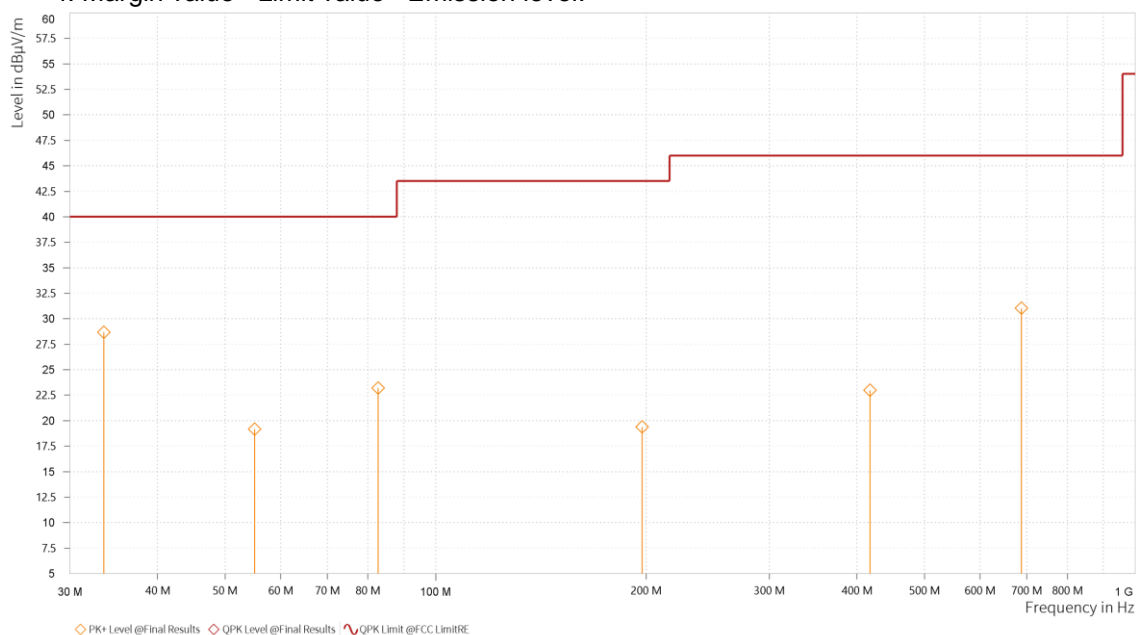
CHANNEL	LTE_B5_LINK+5G_WIF I_11AC20_TX_CH116	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	33.541	28.67	40.00	11.33	-12.01	V	131	1	120.000
1	55.075	19.17	40.00	20.83	-9.47	V	264.9	1	120.000
1	82.768	23.19	40.00	16.81	-13.98	V	359	1	120.000
1	197.277	19.37	43.50	24.13	-10.34	V	5.2	1	120.000
1	417.661	22.99	46.00	23.01	-4.74	V	1	1	120.000
1	687.515	31.01	46.00	14.99	0.24	V	359	1	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Limit value - Emission level.



ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

CHANNEL	LTE_B5_LINK+5G_WIFI_1 1AC20_TX_CH116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

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]
1	1,648.800	38.63	74.00	35.37	27.38	54.00	26.62	4.49	H	1	2
1	2,473.600	44.10	74.00	29.90	33.04	54.00	20.96	10.44	H	359.1	2
4	11,160.000	46.20	74.00	27.80	34.90	54.00	19.10	11.49	H	359.1	2
4	16,740.000	50.12	74.00	23.88	39.90	54.00	14.10	19.90	H	359.1	2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

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]
1	1,648.800	38.03	74.00	35.97	27.39	54.00	26.61	4.49	V	359.1	2
1	2,437.600	42.62	74.00	31.38	32.65	54.00	21.35	10.21	V	359.1	2
4	11,160.000	44.50	74.00	29.50	34.68	54.00	19.32	11.49	V	359.1	2
4	16,740.000	50.46	74.00	23.54	39.34	54.00	14.66	19.90	V	359.1	2

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value =Limit value– Emission level.

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

NR_N78_LINK+5G_WIFI_11AC20_TX_CH157:

BELOW 1GHz WORST-CASE DATA:

30MHz – 1GHz data:

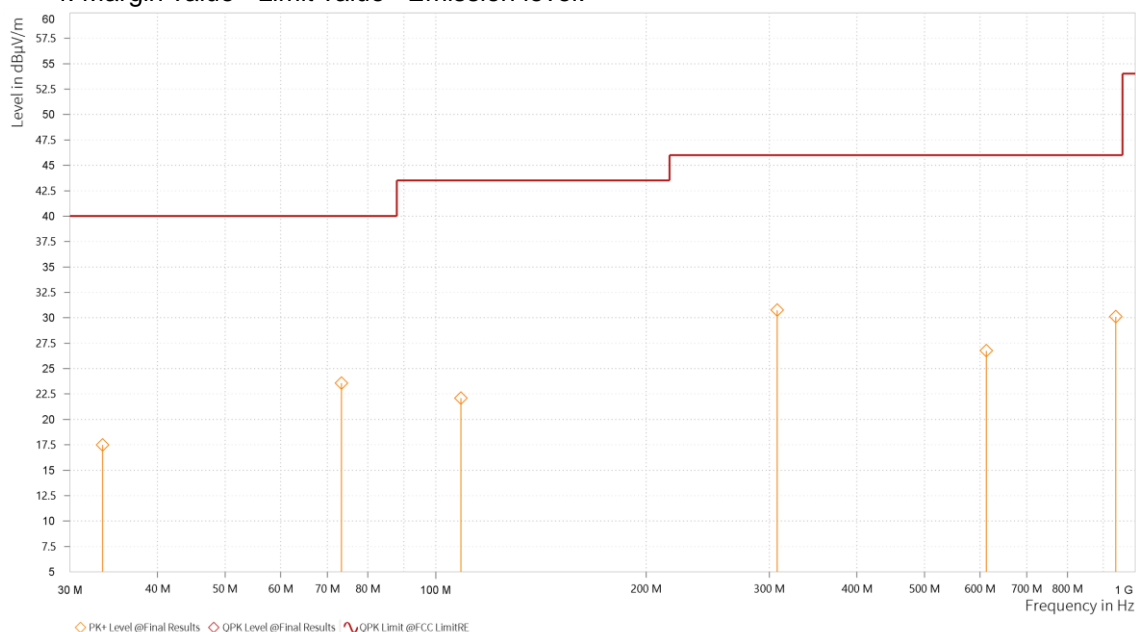
CHANNEL	NR_N78_LINK+5G_WIFI_11AC20_TX_CH157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	33.395	17.49	40.00	22.51	-12.04	H	266.1	1	120.000
1	73.311	23.57	40.00	16.43	-14.17	H	266.1	1	120.000
1	108.667	22.09	43.50	21.41	-10.27	H	359	1	120.000
1	307.711	30.75	46.00	15.25	-7.60	H	266.1	1	120.000
1	612.631	26.74	46.00	19.26	-0.76	H	358.5	1	120.000
1	937.872	30.10	46.00	15.90	3.77	H	359	1	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value =Limit value– Emission level.



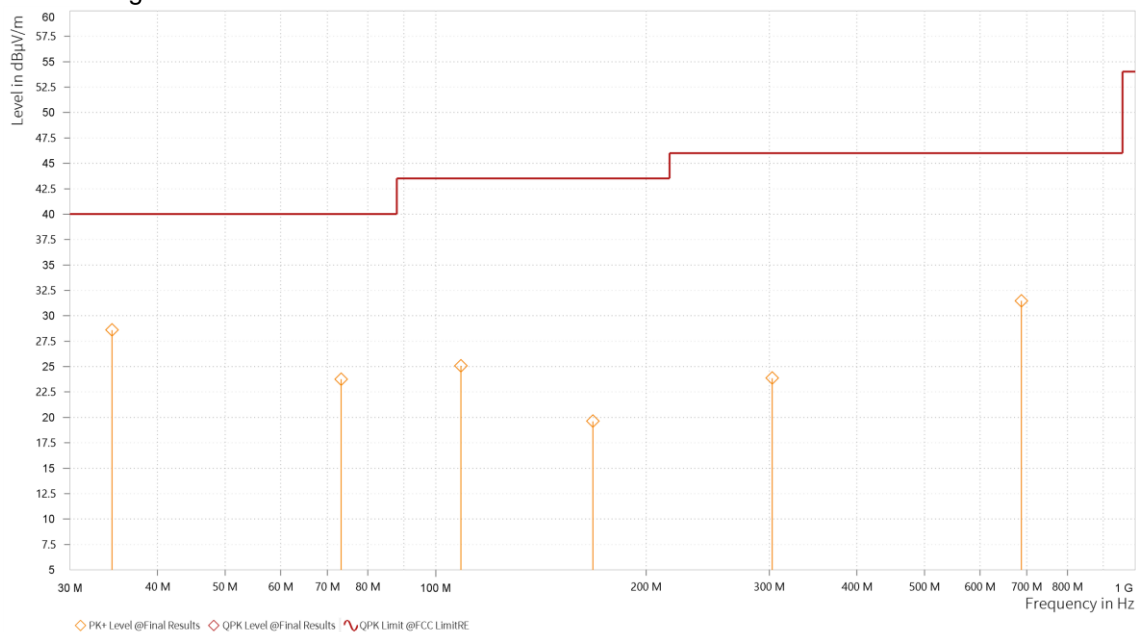
CHANNEL	NR_N78_LINK+5G_WI FI_11AC20_TX_CH157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	34.462	28.60	40.00	11.40	-11.83	V	1	1	120.000
1	73.262	23.75	40.00	16.25	-14.16	V	128.6	1	120.000
1	108.619	25.07	43.50	18.43	-10.27	V	128.6	1	120.000
1	167.837	19.62	43.50	23.88	-12.71	V	128.6	1	120.000
1	302.619	23.86	46.00	22.14	-7.75	V	128.6	1	120.000
1	687.563	31.47	46.00	14.53	0.24	V	359.1	1	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value =Limit value– Emission level.



ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

CHANNEL	NR_N78_LINK+5G_WIFI_11AC20_TX_CH157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

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]	Meas. BW [kHz]
1	7,400.500	59.35	74.00	14.65	46.09	54.00	7.91	16.82	H	58.2	1	1,000.000
2	11,100.000	41.21	74.00	32.79	30.22	54.00	23.78	7.29	H	10.7	1	1,000.000
2	11,570.000	40.78	74.00	33.22	30.18	54.00	23.82	8.37	H	139.5	1	1,000.000
2	17,355.000	50.37	74.00	23.63	40.13	54.00	13.87	15.45	H	139.5	1	1,000.000

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

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]	Meas. BW [kHz]
1	7,400.000	53.33	74.00	20.67	39.52	54.00	14.48	16.82	V	1	1	1,000.000
2	11,110.000	40.68	74.00	33.32	29.92	54.00	24.08	7.30	V	1	1	1,000.000
2	11,570.000	40.98	74.00	33.02	30.04	54.00	23.96	8.37	V	1	1	1,000.000
2	17,355.000	49.66	74.00	24.34	39.47	54.00	14.53	15.45	V	13.6	1	1,000.000

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value =Limit value– Emission level.

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

2.4G_WIFI_11G_TX_CH6+5G_WIFI_11AC20_TX_CH116:

BELOW 1GHz WORST-CASE DATA:

30MHz – 1GHz data:

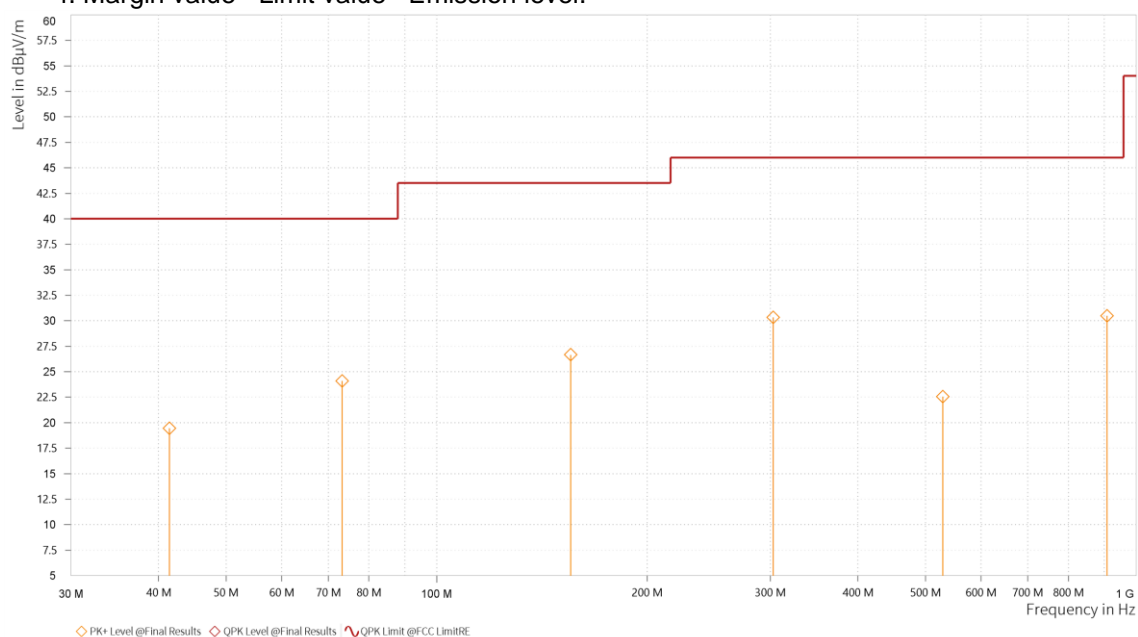
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FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	41.495	19.45	40.00	20.55	-9.41	H	262.5	1	120.000
1	73.262	24.09	40.00	15.91	-14.16	H	262.5	1	120.000
1	155.470	26.65	43.50	16.85	-13.27	H	262.5	1	120.000
1	302.667	30.33	46.00	15.67	-7.75	H	262.5	1	120.000
1	528.823	22.55	46.00	23.45	-2.72	H	5.2	1	120.000
1	908.869	30.47	46.00	15.53	3.62	H	359	1	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value =Limit value– Emission level.



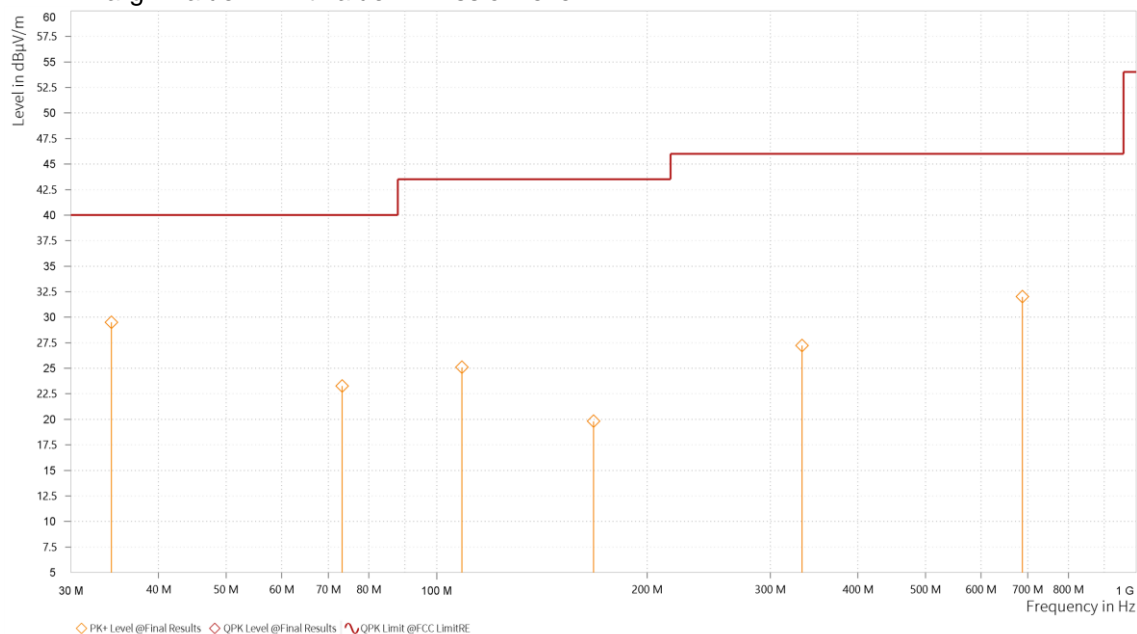
CHANNEL	2.4G_WIFI_11G_TX_C H6+5G_WIFI_11AC20_ TX_CH116	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+: QPK Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	34.268	29.49	40.00	10.51	-11.88	V	160.9	1	120.000
1	73.262	23.26	40.00	16.74	-14.16	V	160.9	1	120.000
1	108.619	25.08	43.50	18.42	-10.27	V	160.9	1	120.000
1	167.595	19.80	43.50	23.70	-12.72	V	160.9	1	120.000
1	332.689	27.23	46.00	18.77	-6.72	V	359	1	120.000
1	687.563	32.01	46.00	13.99	0.24	V	359	1	120.000

REMARKS:

1. Emission level (dBuV/m) = Read level (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission level.



ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

CHANNEL	2.4G_WIFI_11G_TX_CH6+ 5G_WIFI_11AC20_TX_CH 116	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

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]	Meas. BW [kHz]
1	4,874.500	50.87	74.00	23.13	37.56	54.00	16.44	11.70	H	355	1	1,000.000
1	7,311.000	58.73	74.00	15.27	46.11	54.00	7.89	16.64	H	149	1	1,000.000
2	11,160.000	40.17	74.00	33.83	29.90	54.00	24.10	7.33	H	1	1	1,000.000
2	16,740.000	51.13	74.00	22.87	40.02	54.00	13.98	14.95	H	1	1	1,000.000

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

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]	Meas. BW [kHz]
1	4,874.000	64.16	74.00	9.84	51.38	54.00	2.62	11.70	V	57	1	1,000.000
1	7,310.500	59.12	74.00	14.88	45.80	54.00	8.20	16.64	V	355	1	1,000.000
2	11,600.000	41.15	74.00	32.85	30.43	54.00	23.57	8.43	V	266.2	1	1,000.000
2	16,740.000	51.19	74.00	22.81	39.79	54.00	14.21	14.95	V	9.4	1	1,000.000

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value =Limit value– Emission level.

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