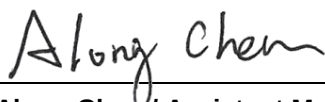


FCC Co-Location Test Report

FCC ID : MXF-WRTD303NMU736
Equipment : HSPA+ Module
Model No. : MU736
Brand Name : Gemtek
Applicant : Gemtek Technology Co., Ltd.
Address : No.15-1 Zhonghua Road, Hsinchu Industrial
Park, Hukou, Hsinchu, Taiwan, 30352
Standard : 47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
47 CFR FCC Part 22 Subpart H
47 CFR FCC Part 24 Subpart E
47 CFR FCC Part 27 Subpart L
Received Date : Oct. 23, 2014
Tested Date : Oct. 28 ~ Oct. 29, 2014

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:



Along Chen / Assistant Manager



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Release Record

Report No.	Version	Description	Issued Date
FG4O2301P22	Rev. 01	Initial issue	Dec. 12, 2014

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d) 15.407(b) 15.209 2.1053 / 22.917(a) 2.1053 / 24.238(a) 2.1053 / 27.53(h)	Radiated Emissions	[dBuV/m at 3m]: 46.49MHz 38.94 (Margin -1.06dB) – QP	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Operating band (MHz)	WCDMA V: 826.4~846.6 WCDMA II: 1852.4~1907.6 WCDMA IV: 1712.4~1752.6
Modulation	WCDMA / HSDPA / HSUPA Uplink: QPSK Downlink: QPSK , 16QAM , 64QAM
3GPP Release Version	R7
H/W Version	V03
S/W Version	1.1.0

Note: The module is certified as limited module that is limited to specific host (refer to section 1.1.3).

1.1.2 Antenna Details of the Equipment under Test (EUT)

Ant. No.	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
			824~849	1850~1910	1710~1785
1	PIFA	I-PEX	1.25	1.6	1.7

1.1.3 Specific platform Information

The module will be installed in below certified wireless device

Brand Name	Model Name	Product Name	FCC IC
Gemtek	WRTD-303N	Easy Connect	MXF-WRTD303N

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	2	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 0-15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 0-15

Note 1: RF output power specifies that Maximum Peak Conducted Output Power.
Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5150-5250	a	5180-5240	36-48 [4]	2	6-54 Mbps
5150-5250	n (HT20)	5180-5240	36-48 [4]	2	MCS 0-15
5150-5250	n (HT40)	5190-5230	38-46 [2]	2	MCS 0-15
5150-5250	ac (VHT20)	5180-5240	36-48 [4]	2	MCS 0-8
5150-5250	ac (VHT40)	5190-5230	38-46 [2]	2	MCS 0-9
5150-5250	ac (VHT80)	5210	42 [1]	2	MCS 0-9

Note 1: RF output power specifies that Maximum Conducted Output Power.
Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
5725-5850	a	5745-5825	149-165 [5]	2	6-54 Mbps
5725-5850	n (HT20)	5745-5825	149-165 [5]	2	MCS 0-15
5725-5850	n (HT40)	5755-5795	151-159 [2]	2	MCS 0-15
5725-5850	ac (VHT20)	5745-5825	149-165 [5]	2	MCS 0-8
5725-5850	ac (VHT40)	5755-5795	151-159 [2]	2	MCS 0-9
5725-5850	ac (VHT80)	5775	155 [1]	2	MCS 0-9

Note 1: RF output power specifies that Maximum Conducted Output Power.
Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.

1.1.4 Antenna Details of Specific platform

Ant. No.	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
			2400~2483.5	5150~5250	5725~5850
1	PIFA	I-PEX	2.5	3.02	3.03

1.1.5 Accessories of Specific platform

Accessories		
No.	Equipment	Description
1	AC Adapter 1	Brand Name: AOEM Model Name: ADS0248-W 120200 Power Rating: I/P: 100-240Vac, 50-60Hz, 0.6A O/P: 12Vdc, 2A Power Line: 120cm non-shielded cable with one core
2	AC Adapter 2	Brand Name: APD Model Name: WA-24Q12FU Power Rating: I/P: 100-240Vac, 50-60Hz, 0.6A O/P: 12Vdc, 2A Power Line: 1.8m non-shielded cable with one core
3	AC Adapter 3	Brand Name: MOSO Model Name: MSP-C2000IC12.0-24W-US Power Rating: I/P: 100-240Vac, 50-60Hz, 0.8A O/P: 12Vdc, 2A Power Line: 1.4m non-shielded cable with one core
4	WTE Battery	Model: 303N Rating: 7.4Vdc, 4050mAh (29.97Wh)
5	MAXELL Battery	button cell battery Model: ML2032 Rating: 3Vdc
6	built-in HDD	Brand: TOSHIBA Model: MQ01ABF050 Capacity: 500GB

1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Jan. 25, 2014	Jan. 24, 2015
Receiver	R&S	ESR3	101657	Jan. 18, 2014	Jan. 17, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Sep. 05, 2014	Sep. 04, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Feb. 13, 2014	Feb. 12, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA9170154	Jan. 10, 2014	Jan. 09, 2015
Preamplifier	Burgeon	BPA-530	SN:100219	Sep. 09, 2014	Sep. 08, 2015
Preamplifier	Agilent	83017A	MY39501308	Oct. 09, 2014	Oct. 08, 2015
Preamplifier	EMC	EMC184045B	980192	Aug. 26, 2014	Aug. 25, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 16, 2013	Dec. 15, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 16, 2013	Dec. 15, 2014
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 16, 2013	Dec. 15, 2014
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 18, 2014	Mar. 17, 2015
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 16, 2013	Dec. 15, 2014
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Loop Antenna	TESEQ	HLA 6120	31244	Dec. 02, 2012	Dec. 01, 2014
Note: Calibration Interval of instruments listed above is two year.					

1.3 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

47 CFR FCC Part 15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01

FCC KDB 558074 D01 DTS Meas Guidance v03r02

FCC KDB 971168 D01 Power Meas License Digital Systems v02r02

FCC KDB 412172 D01 Determining ERP and EIRP v01

ANSI C63.4-2003

ANSI C63.10-2009

ANSI / TIA / EIA-603-C -2004

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty	
Parameters	Uncertainty
Radiated emission $\leq$ 1GHz	± 3.26 dB
Radiated emission $>$ 1GHz	± 4.94 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	23-25°C / 64-65%	Anderson Hung Aska Huang

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Channel	Test Configuration
Radiated Emissions	3G WCDMA II + 2.4G 11g	CH9262 + CH6	---
	3G WCDMA II + 5G 11ac VHT40	CH9262 + CH46	---
	3G WCDMA IV + 2.4G 11g	CH1413 + CH6	---
	3G WCDMA IV + 5G 11ac VHT40	CH1413 + CH46	---
	3G WCDMA V + 2.4G 11g	CH4132 + CH6	---
	3G WCDMA V + 5G 11ac VHT40	CH4132 + CH46	---

Note:

- 1) The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
- 2) Adapter 1, Adapter 2 and Adapter 3 had been pretested and found that **Adapter 1** was the worst case and was selected for final testing (Adapter 1: AOEM adapter; Adapter 2: APD adapter; Adapter 3: MOSO adapter).
- 3) The selected channel is the maximum power channel of each Wi-Fi and 3G module.

3 Transmitter Test Results

3.1 Unwanted Emissions into Restricted Frequency Bands

3.1.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.1.2 Test Procedures

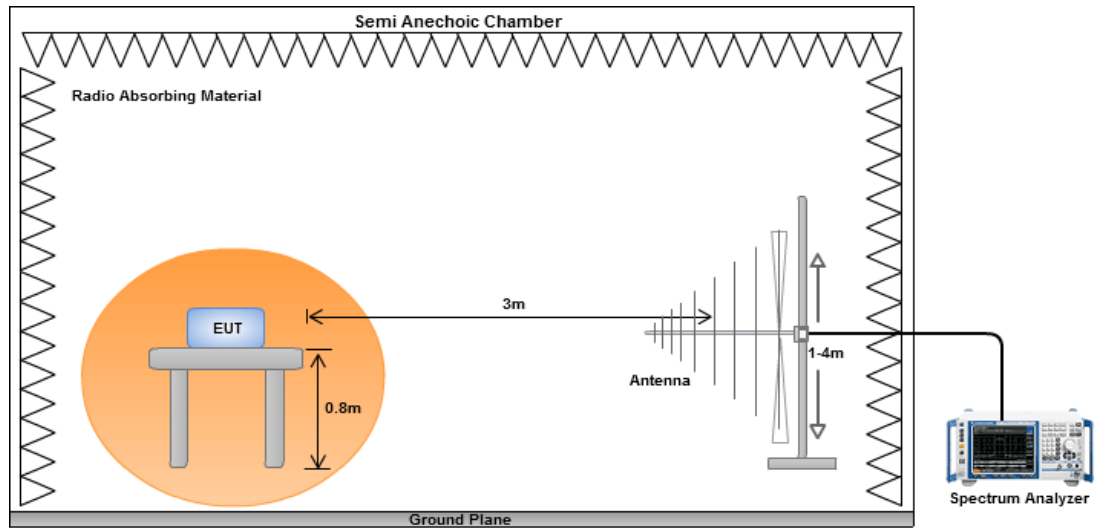
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

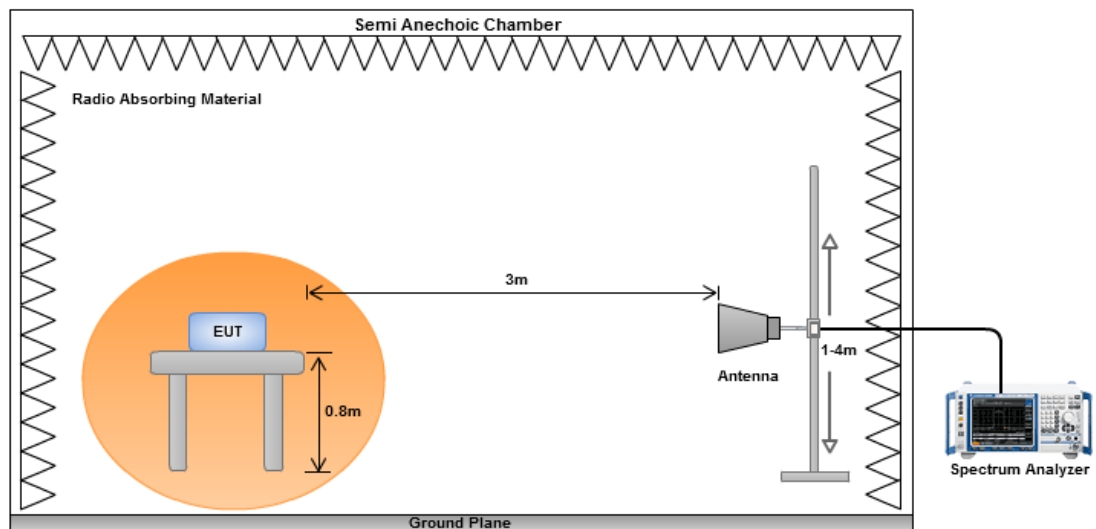
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.1.3 Test Setup

Radiated Emissions below 1 GHz



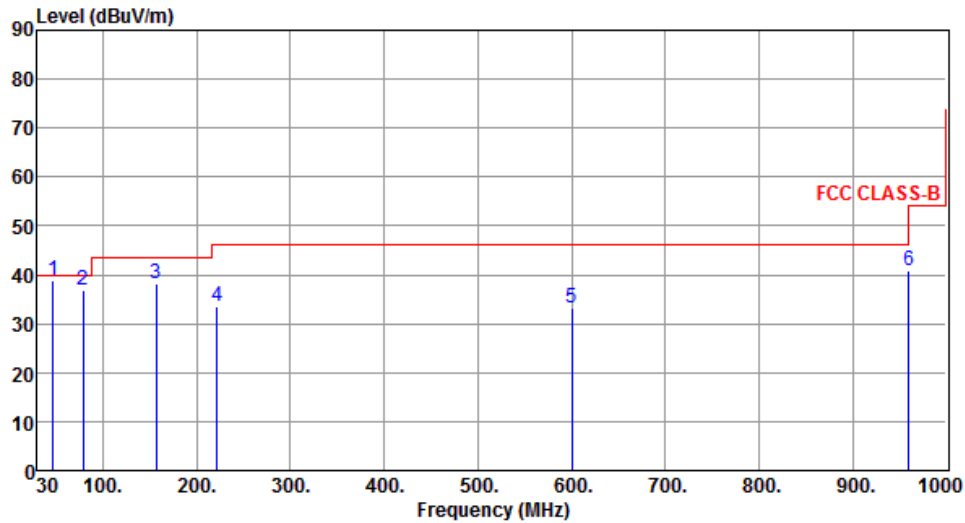
Radiated Emissions above 1 GHz



Modulation	3G WCDMA II + 2.4G 11g			Test Channel	CH9262 + CH6				
Polarization	Vertical								
Level (dBuV/m)									

Modulation	3G WCDMA II + 5G 11ac VHT40				Test Channel	CH9262 + CH46			
Polarization	Horizontal								
Level (dBUV/m) </									

Modulation	3G WCDMA II + 5G 11ac VHT40	Test Channel	CH9262 + CH46
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.49	38.94	40.00	-1.06	55.65	-16.71	QP	---	---
2	78.50	36.95	40.00	-3.05	58.25	-21.30	Peak	---	---
3	157.07	38.26	43.50	-5.24	55.05	-16.79	Peak	---	---
4	222.06	33.55	46.00	-12.45	52.55	-19.00	Peak	---	---
5	600.36	33.21	46.00	-12.79	42.76	-9.55	Peak	---	---
6	960.23	40.98	54.00	-13.02	45.60	-4.62	Peak	---	---

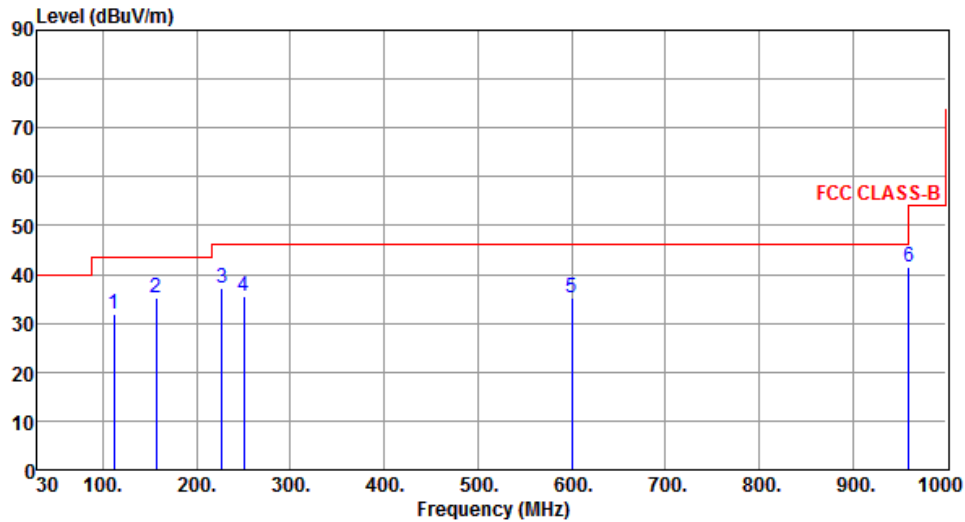
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	3G WCDMA IV + 2.4G 11g			Test Channel	CH1413 + CH6				
Polarization	Horizontal								
Level (dBUV/m)									

Modulation	3G WCDMA IV + 5G 11ac VHT40	Test Channel	CH1413 + CH46
Polarization	Horizontal		



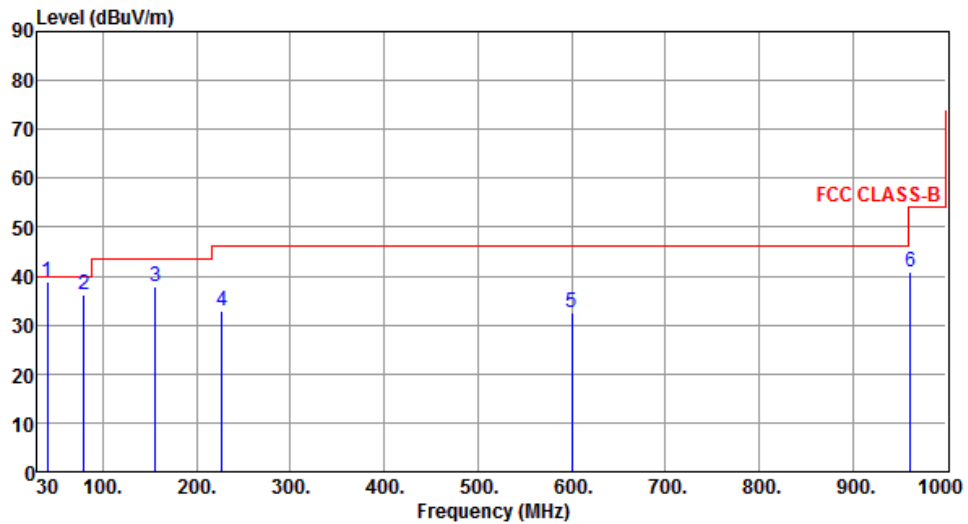
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	111.48	31.90	43.50	-11.60	51.92	-20.02	Peak	---	---
2	157.07	35.10	43.50	-8.40	51.89	-16.79	Peak	---	---
3	226.91	37.32	46.00	-8.68	56.06	-18.74	Peak	---	---
4	250.19	35.43	46.00	-10.57	53.35	-17.92	Peak	---	---
5	600.36	35.27	46.00	-10.73	44.82	-9.55	Peak	---	---
6	960.23	41.45	54.00	-12.55	46.07	-4.62	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	3G WCDMA IV + 5G 11ac VHT40	Test Channel	CH1413 + CH46
Polarization	Vertical		



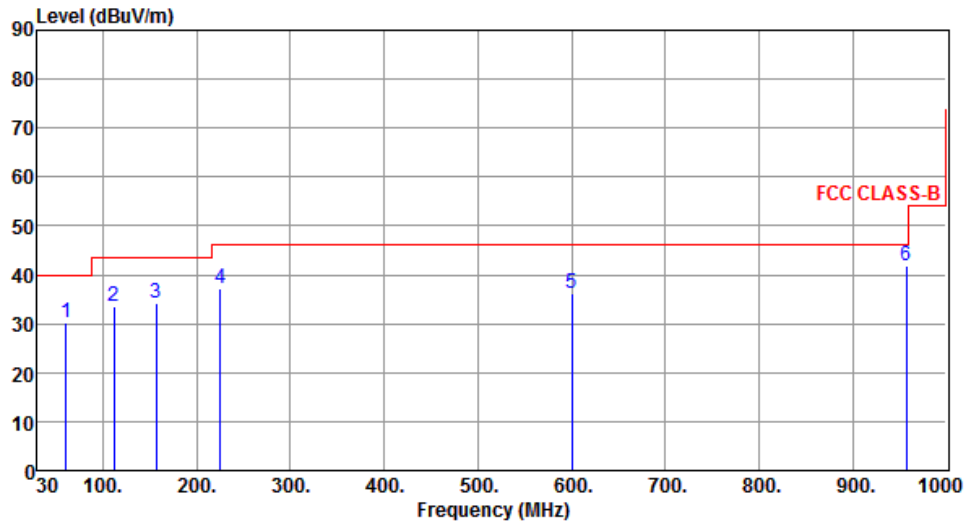
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	40.67	38.86	40.00	-1.14	55.91	-17.05	QP	---	---
2	79.47	36.20	40.00	-3.80	57.72	-21.52	Peak	---	---
3	156.10	37.73	43.50	-5.77	54.53	-16.80	Peak	---	---
4	226.91	32.84	46.00	-13.16	51.58	-18.74	Peak	---	---
5	600.36	32.57	46.00	-13.43	42.12	-9.55	Peak	---	---
6	961.20	40.95	54.00	-13.05	45.57	-4.62	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	3G WCDMA V + 2.4G 11g	Test Channel	CH4132 + CH6
Polarization	Horizontal		



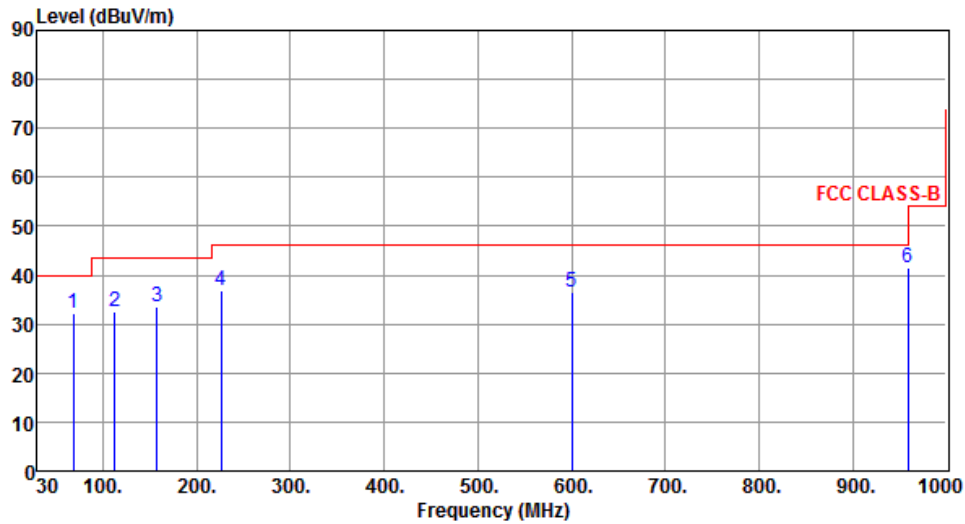
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	61.04	30.33	40.00	-9.67	47.72	-17.39	Peak	---	---
2	111.48	33.50	43.50	-10.00	53.52	-20.02	Peak	---	---
3	157.07	34.20	43.50	-9.30	50.99	-16.79	Peak	---	---
4	224.97	37.07	46.00	-8.93	55.92	-18.85	Peak	---	---
5	600.36	36.04	46.00	-9.96	45.59	-9.55	Peak	---	---
6	957.32	41.85	46.00	-4.15	46.48	-4.63	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	3G WCDMA V + 5G 11ac VHT40	Test Channel	CH4132 + CH46
Polarization	Horizontal		



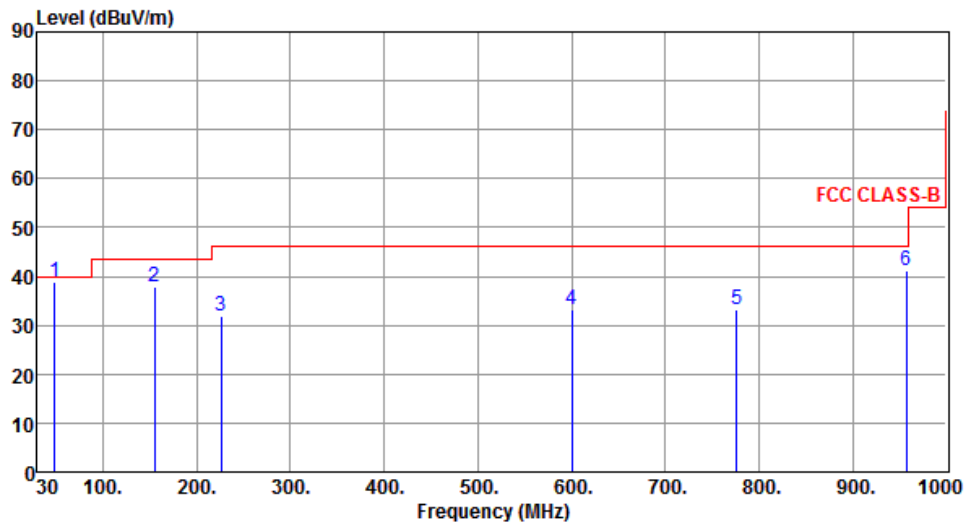
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	68.80	32.20	40.00	-7.80	51.32	-19.12	Peak	---	---
2	112.45	32.56	43.50	-10.94	52.48	-19.92	Peak	---	---
3	158.04	33.64	43.50	-9.86	50.42	-16.78	Peak	---	---
4	225.94	36.79	46.00	-9.21	55.58	-18.79	Peak	---	---
5	600.36	36.46	46.00	-9.54	46.01	-9.55	Peak	---	---
6	959.26	41.40	46.00	-4.60	46.02	-4.62	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	3G WCDMA V + 5G 11ac VHT40	Test Channel	CH4132 + CH46
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	48.43	38.82	40.00	-1.18	55.42	-16.60	QP	---	---
2	155.13	37.74	43.50	-5.76	54.54	-16.80	Peak	---	---
3	225.94	31.82	46.00	-14.18	50.61	-18.79	Peak	---	---
4	600.36	33.13	46.00	-12.87	42.68	-9.55	Peak	---	---
5	775.93	33.37	46.00	-12.63	40.36	-6.99	Peak	---	---
6	957.32	41.13	46.00	-4.87	45.76	-4.63	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

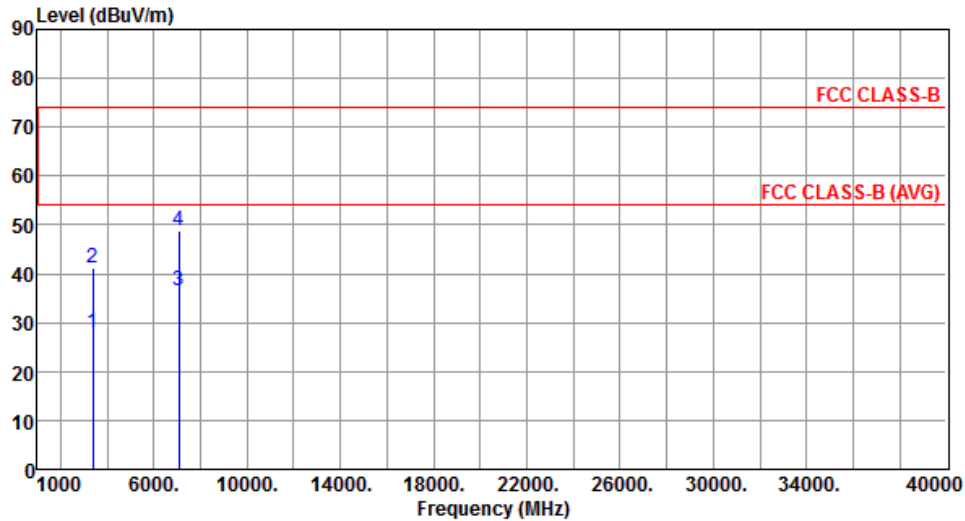
3.1.5 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation	3G WCDMA II + 2.4G 11g	Test Channel	CH9262 + CH6
Polarization	Horizontal		
Level (dBUV/m)			

Modulation	3G WCDMA II + 2.4G 11g			Test Channel	CH9262 + CH6				
Polarization	Vertical								
Level (dBuV/m)									

Modulation	3G WCDMA II + 5G 11ac VHT40				Test Channel	CH9262 + CH46			
Polarization	Horizontal								
Level (dBuV/m) <									

Modulation	3G WCDMA II + 5G 11ac VHT40	Test Channel	CH9262 + CH46
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3377.60	27.83	54.00	-26.17	28.16	-0.33	Average	---	---
2	3377.60	41.20	74.00	-32.80	41.53	-0.33	Peak	---	---
3	7082.40	36.42	54.00	-17.58	27.51	8.91	Average	---	---
4	7082.40	48.96	74.00	-25.04	40.05	8.91	Peak	---	---

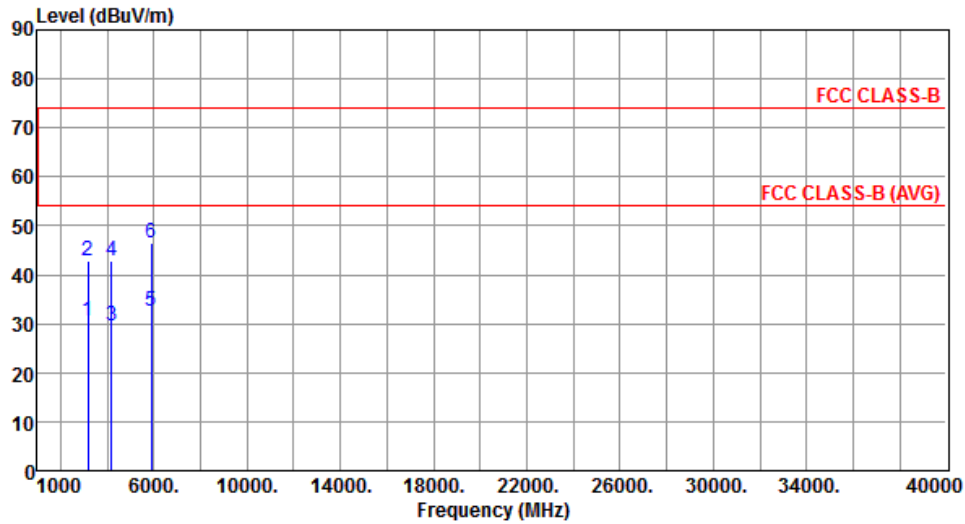
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	3G WCDMA IV + 2.4G 11g	Test Channel	CH1413 + CH6
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	3G WCDMA IV + 2.4G 11g	Test Channel	CH1413 + CH6
Polarization	Vertical		



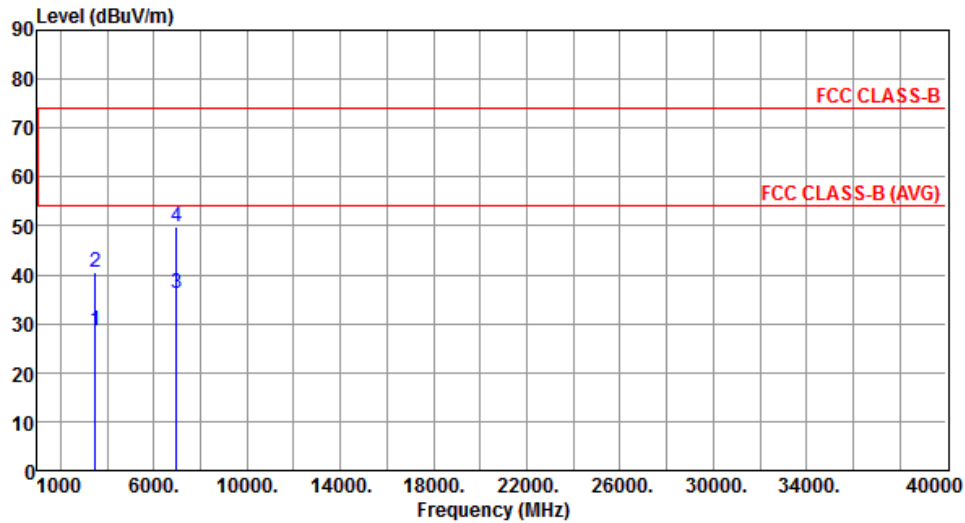
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3181.60	30.44	54.00	-23.56	31.23	-0.79	Average	---	---
2	3181.60	42.99	74.00	-31.01	43.78	-0.79	Peak	---	---
3	4169.60	29.57	54.00	-24.43	26.87	2.70	Average	---	---
4	4169.60	42.86	74.00	-31.14	40.16	2.70	Peak	---	---
5	5882.00	32.51	54.00	-21.49	26.60	5.91	Average	---	---
6	5882.00	46.34	74.00	-27.66	40.43	5.91	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	3G WCDMA IV + 5G 11ac VHT40	Test Channel	CH1413 + CH46
Polarization	Horizontal		



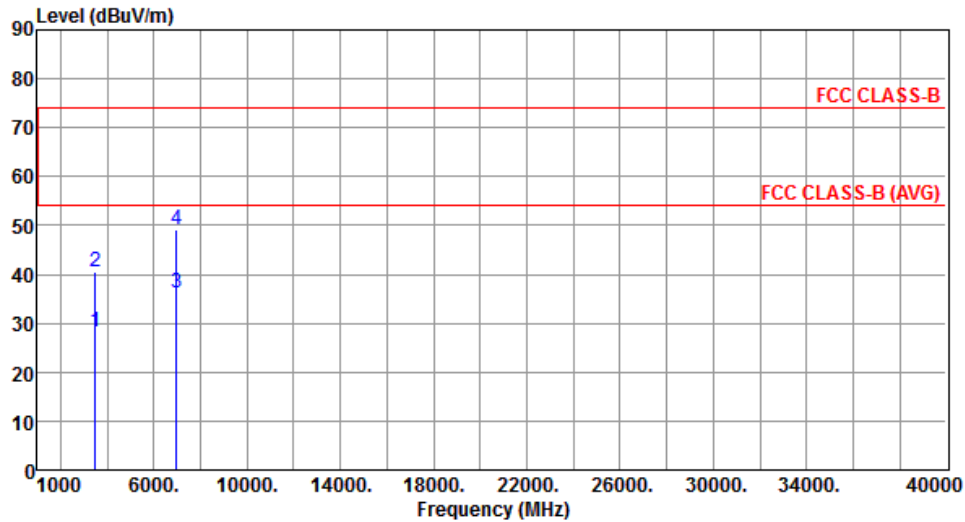
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3497.40	28.44	54.00	-25.56	28.53	-0.09	Average	---	---
2	3497.40	40.51	74.00	-33.49	40.60	-0.09	Peak	---	---
3	6962.60	36.28	54.00	-17.72	27.83	8.45	Average	---	---
4	6962.60	49.78	74.00	-24.22	41.33	8.45	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	3G WCDMA IV + 5G 11ac VHT40	Test Channel	CH1413 + CH46
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	3497.40	28.19	54.00	-25.81	28.28	-0.09	Average	---	---
2	3497.40	40.62	74.00	-33.38	40.71	-0.09	Peak	---	---
3	6962.60	36.07	54.00	-17.93	27.62	8.45	Average	---	---
4	6962.60	49.24	74.00	-24.76	40.79	8.45	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	3G WCDMA V + 2.4G 11g	Test Channel	CH4132 + CH6
Polarization	Horizontal		
Level (dBuV/m) <			

Modulation	3G WCDMA V + 2.4G 11g			Test Channel	CH4132 + CH6				
Polarization	Vertical								
Level (dBuV/m)									

Modulation	3G WCDMA V + 5G 11ac VHT40				Test Channel	CH4132 + CH46			
Polarization	Horizontal								
Level (dBuV/m) </									

Modulation	3G WCDMA V + 5G 11ac VHT40				Test Channel	CH4132 + CH46			
Polarization	Vertical								
Level (dBUV/m) <									

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan,
R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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