

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19281.000000	55.0	1000.0	1000.000	H	7.9	19.1	74.0
20210.000000	55.4	1000.0	1000.000	H	7.7	18.6	74.0
21352.000000	54.5	1000.0	1000.000	H	7.2	19.5	74.0
22734.000000	54.9	1000.0	1000.000	H	7.4	19.2	74.0
24171.000000	56.2	1000.0	1000.000	H	7.7	17.8	74.0
25660.000000	55.4	1000.0	1000.000	H	7.0	18.6	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19281.000000	41.4	1000.0	1000.000	H	7.9	12.6	54.0
20210.000000	41.9	1000.0	1000.000	H	7.7	12.1	54.0
21352.000000	41.4	1000.0	1000.000	H	7.2	12.6	54.0
22734.000000	41.8	1000.0	1000.000	H	7.4	12.2	54.0
24171.000000	42.8	1000.0	1000.000	H	7.7	11.2	54.0
25660.000000	42.2	1000.0	1000.000	H	7.0	11.8	54.0

Tested by:

Chris Liang

20190612

Reviewed by:

Jacky Chen

20190624

TUV Rheinland (Guangdong) Ltd.

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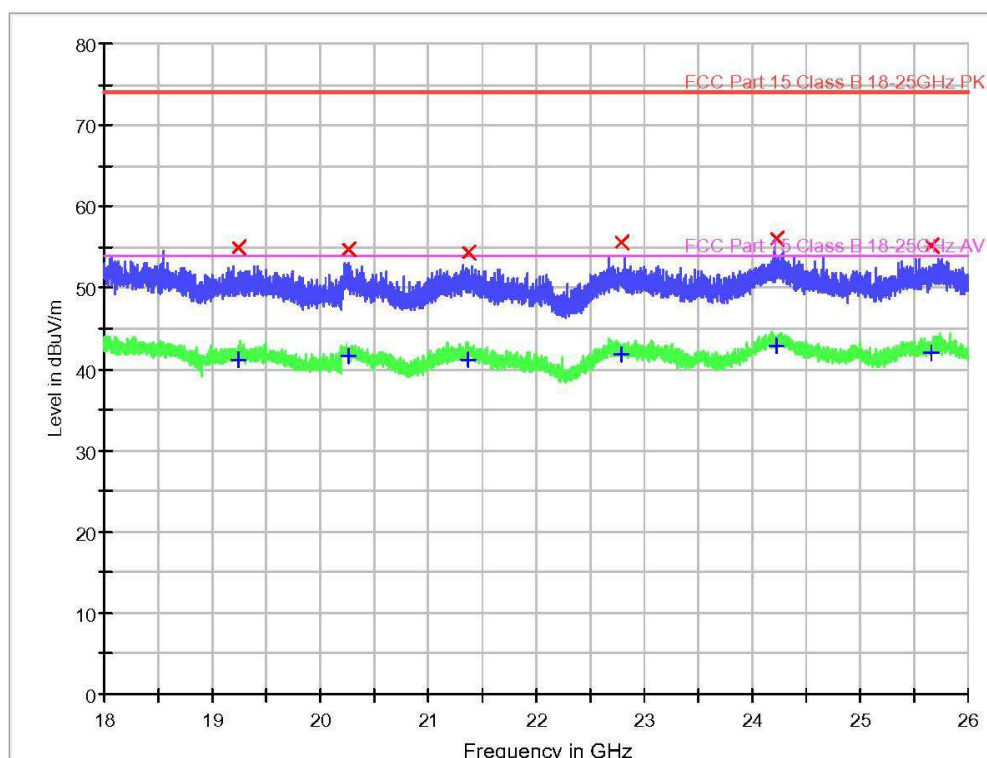
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11g-High)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19248.000000	55.0	1000.0	1000.000	V	7.9	19.0	74.0
20261.000000	54.7	1000.0	1000.000	V	7.6	19.3	74.0
21366.000000	54.4	1000.0	1000.000	V	7.2	19.6	74.0
22786.000000	55.5	1000.0	1000.000	V	7.4	18.5	74.0
24233.000000	56.0	1000.0	1000.000	V	7.7	18.0	74.0
25660.000000	55.2	1000.0	1000.000	V	7.0	18.9	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19248.000000	41.2	1000.0	1000.000	V	7.9	12.8	54.0
20261.000000	41.5	1000.0	1000.000	V	7.6	12.5	54.0
21366.000000	41.3	1000.0	1000.000	V	7.2	12.7	54.0
22786.000000	41.8	1000.0	1000.000	V	7.4	12.2	54.0
24233.000000	42.9	1000.0	1000.000	V	7.7	11.1	54.0
25660.000000	42.1	1000.0	1000.000	V	7.0	11.9	54.0

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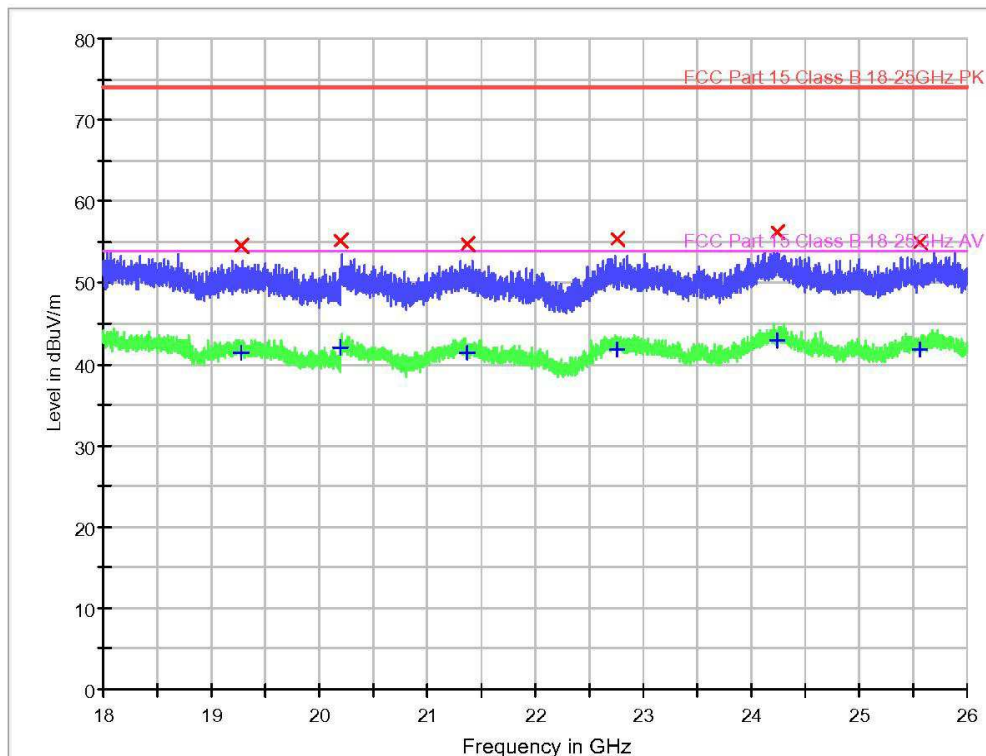
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11g-High)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19267.000000	54.5	1000.0	1000.000	H	7.9	19.5	74.0
20201.000000	55.2	1000.0	1000.000	H	7.7	18.8	74.0
21373.000000	54.7	1000.0	1000.000	H	7.2	19.3	74.0
22766.000000	55.4	1000.0	1000.000	H	7.4	18.6	74.0
24237.000000	56.2	1000.0	1000.000	H	7.7	17.8	74.0
25570.000000	54.9	1000.0	1000.000	H	7.0	19.1	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/)
19267.000000	41.3	1000.0	1000.000	H	7.9	12.7	54.0
20201.000000	42.0	1000.0	1000.000	H	7.7	12.0	54.0
21373.000000	41.3	1000.0	1000.000	H	7.2	12.7	54.0
22766.000000	41.8	1000.0	1000.000	H	7.4	12.2	54.0
24237.000000	42.9	1000.0	1000.000	H	7.7	11.1	54.0
25570.000000	41.8	1000.0	1000.000	H	7.0	12.2	54.0

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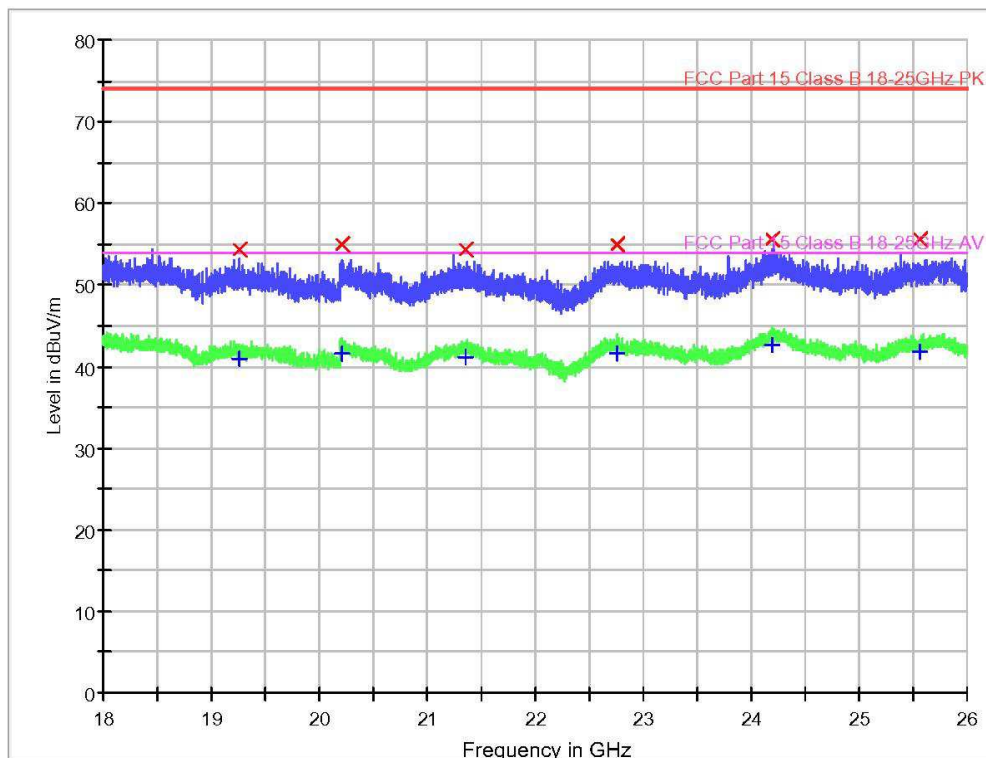
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(20n)-Low)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19252.000000	54.4	1000.0	1000.000	V	7.9	19.6	74.0
20208.000000	55.0	1000.0	1000.000	V	7.7	19.0	74.0
21352.000000	54.4	1000.0	1000.000	V	7.2	19.6	74.0
22752.000000	55.0	1000.0	1000.000	V	7.4	19.1	74.0
24200.000000	55.5	1000.0	1000.000	V	7.7	18.5	74.0
25571.000000	55.6	1000.0	1000.000	V	7.0	18.4	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19252.000000	41.0	1000.0	1000.000	V	7.9	13.0	54.0
20208.000000	41.7	1000.0	1000.000	V	7.7	12.3	54.0
21352.000000	41.2	1000.0	1000.000	V	7.2	12.8	54.0
22752.000000	41.6	1000.0	1000.000	V	7.4	12.4	54.0
24200.000000	42.7	1000.0	1000.000	V	7.7	11.4	54.0
25571.000000	41.8	1000.0	1000.000	V	7.0	12.2	54.0

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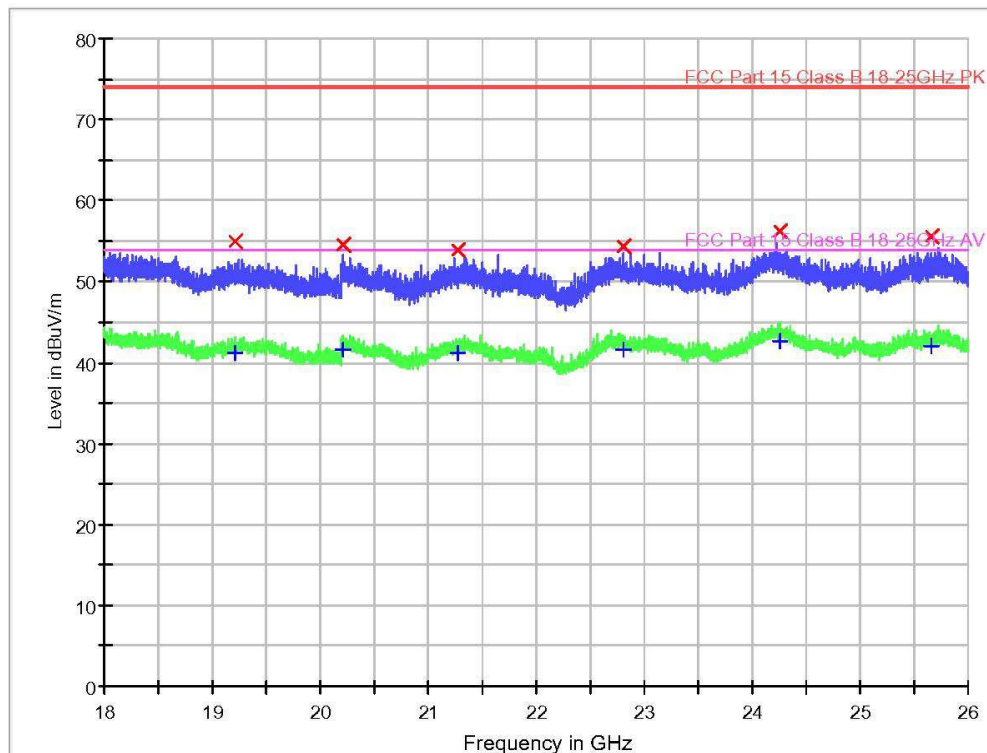
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(20n)-Low)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19203.000000	54.9	1000.0	1000.000	H	7.9	19.1	74.0
20204.000000	54.6	1000.0	1000.000	H	7.7	19.4	74.0
21272.000000	54.0	1000.0	1000.000	H	7.2	20.0	74.0
22810.000000	54.4	1000.0	1000.000	H	7.4	19.6	74.0
24257.000000	56.2	1000.0	1000.000	H	7.7	17.8	74.0
25659.000000	55.5	1000.0	1000.000	H	7.0	18.5	74.0

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Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19203.000000	41.3	1000.0	1000.000	H	7.9	12.8	54.0
20204.000000	41.7	1000.0	1000.000	H	7.7	12.3	54.0
21272.000000	41.1	1000.0	1000.000	H	7.2	12.9	54.0
22810.000000	41.7	1000.0	1000.000	H	7.4	12.3	54.0
24257.000000	42.7	1000.0	1000.000	H	7.7	11.3	54.0
25659.000000	42.0	1000.0	1000.000	H	7.0	12.0	54.0

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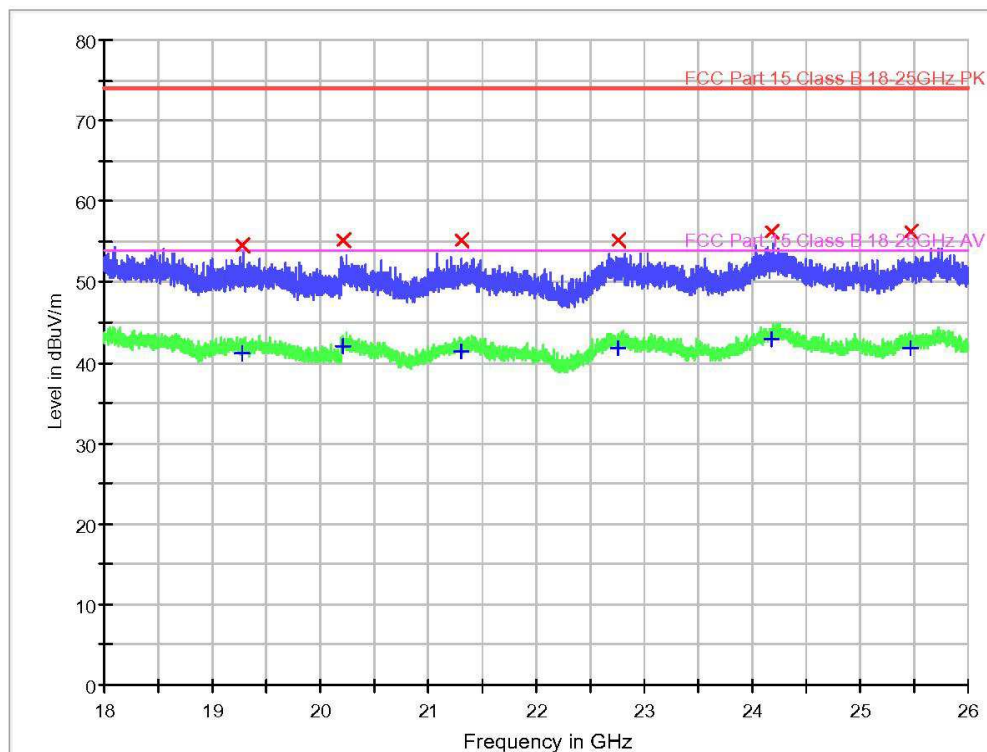
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(20n)-Middle)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19272.000000	54.6	1000.0	1000.000	V	7.9	19.4	74.0
20207.000000	55.3	1000.0	1000.000	V	7.7	18.8	74.0
21309.000000	55.2	1000.0	1000.000	V	7.2	18.8	74.0
22756.000000	55.1	1000.0	1000.000	V	7.4	18.9	74.0
24176.000000	56.2	1000.0	1000.000	V	7.7	17.8	74.0
25463.000000	56.3	1000.0	1000.000	V	7.0	17.7	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19272.000000	41.3	1000.0	1000.000	V	7.9	12.7	54.0
20207.000000	42.0	1000.0	1000.000	V	7.7	12.0	54.0
21309.000000	41.3	1000.0	1000.000	V	7.2	12.7	54.0
22756.000000	41.8	1000.0	1000.000	V	7.4	12.2	54.0
24176.000000	42.8	1000.0	1000.000	V	7.7	11.2	54.0
25463.000000	41.8	1000.0	1000.000	V	7.0	12.2	54.0

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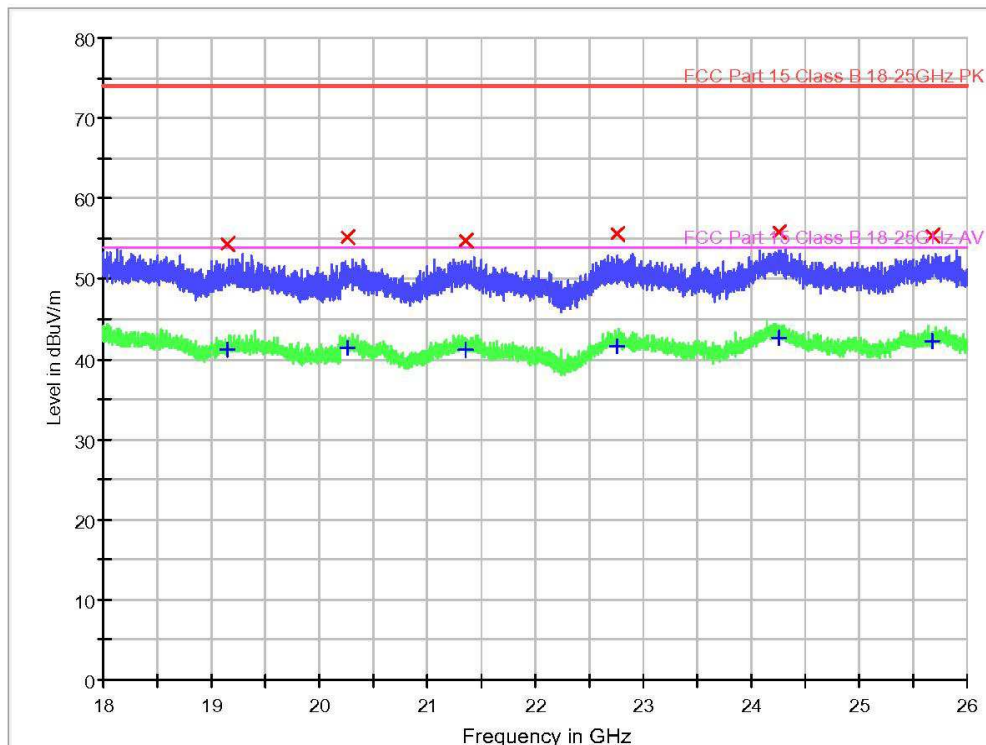
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(20n)-Middle)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19139.000000	54.3	1000.0	1000.000	H	7.9	19.7	74.0
20266.000000	55.2	1000.0	1000.000	H	7.6	18.8	74.0
21361.000000	54.7	1000.0	1000.000	H	7.2	19.4	74.0
22757.000000	55.5	1000.0	1000.000	H	7.4	18.5	74.0
24266.000000	55.9	1000.0	1000.000	H	7.7	18.1	74.0
25674.000000	55.4	1000.0	1000.000	H	7.0	18.6	74.0

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Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19139.000000	41.1	1000.0	1000.000	H	7.9	12.9	54.0
20266.000000	41.4	1000.0	1000.000	H	7.6	12.6	54.0
21361.000000	41.2	1000.0	1000.000	H	7.2	12.8	54.0
22757.000000	41.7	1000.0	1000.000	H	7.4	12.3	54.0
24266.000000	42.6	1000.0	1000.000	H	7.7	11.4	54.0
25674.000000	42.2	1000.0	1000.000	H	7.0	11.8	54.0

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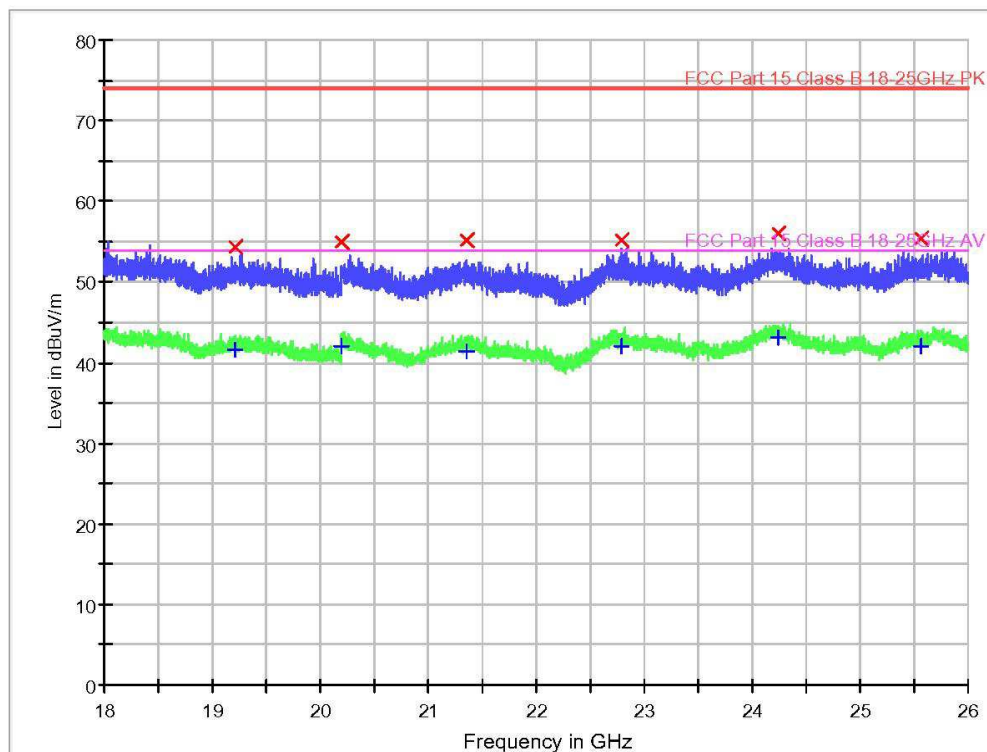
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11 (20n)-High)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19203.000000	54.3	1000.0	1000.000	V	7.9	19.8	74.0
20201.000000	55.0	1000.0	1000.000	V	7.7	19.0	74.0
21355.000000	55.2	1000.0	1000.000	V	7.2	18.8	74.0
22795.000000	55.3	1000.0	1000.000	V	7.4	18.7	74.0
24242.000000	56.1	1000.0	1000.000	V	7.7	17.9	74.0
25567.000000	55.3	1000.0	1000.000	V	6.9	18.7	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19203.000000	41.6	1000.0	1000.000	V	7.9	12.4	54.0
20201.000000	42.1	1000.0	1000.000	V	7.7	11.9	54.0
21355.000000	41.4	1000.0	1000.000	V	7.2	12.6	54.0
22795.000000	41.9	1000.0	1000.000	V	7.4	12.1	54.0
24242.000000	43.0	1000.0	1000.000	V	7.7	11.0	54.0
25567.000000	41.9	1000.0	1000.000	V	6.9	12.1	54.0

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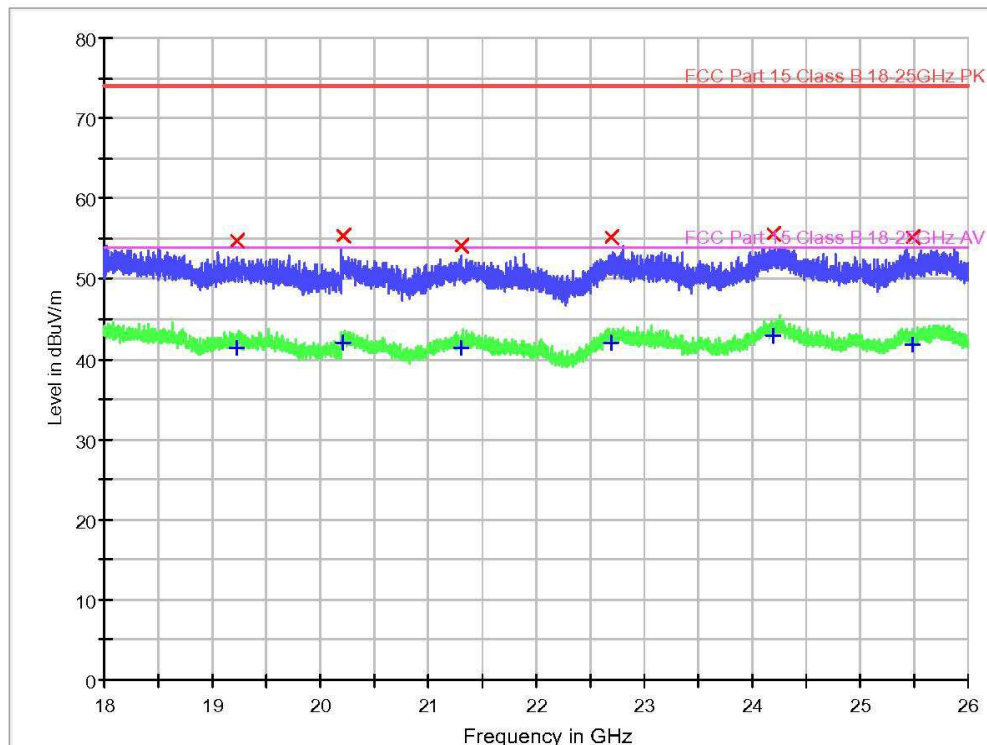
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(20n)-High)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19228.000000	54.7	1000.0	1000.000	H	7.9	19.3	74.0
20202.000000	55.3	1000.0	1000.000	H	7.7	18.7	74.0
21306.000000	54.2	1000.0	1000.000	H	7.2	19.8	74.0
22693.000000	55.2	1000.0	1000.000	H	7.4	18.9	74.0
24195.000000	55.7	1000.0	1000.000	H	7.7	18.3	74.0
25478.000000	55.1	1000.0	1000.000	H	7.0	18.9	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19228.000000	41.5	1000.0	1000.000	H	7.9	12.5	54.0
20202.000000	42.0	1000.0	1000.000	H	7.7	12.0	54.0
21306.000000	41.3	1000.0	1000.000	H	7.2	12.7	54.0
22693.000000	41.9	1000.0	1000.000	H	7.4	12.1	54.0
24195.000000	42.9	1000.0	1000.000	H	7.7	11.1	54.0
25478.000000	41.8	1000.0	1000.000	H	7.0	12.2	54.0

Tested by:

Chris Liang

20190612

Reviewed by:

Jacky Chen

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

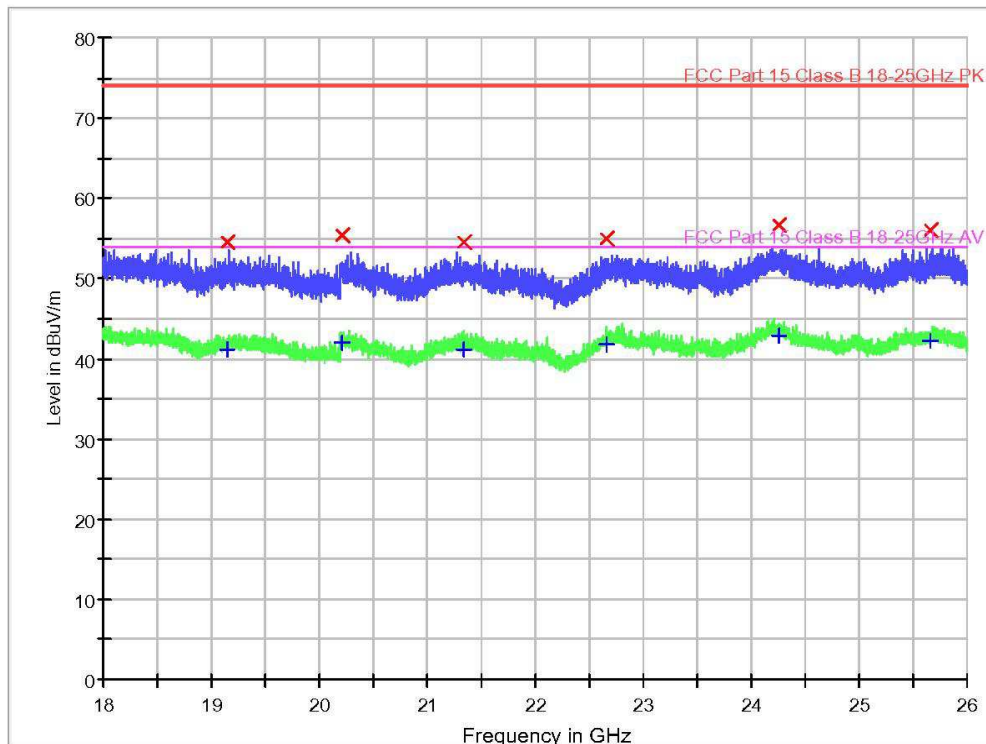
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(40n)-Low)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: *Chris Liang*

20190612

Reviewed by: *Jacky Chen*

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19138.000000	54.5	1000.0	1000.000	V	7.9	19.5	74.0
20205.000000	55.4	1000.0	1000.000	V	7.7	18.7	74.0
21335.000000	54.6	1000.0	1000.000	V	7.2	19.4	74.0
22660.000000	54.9	1000.0	1000.000	V	7.3	19.1	74.0
24259.000000	56.6	1000.0	1000.000	V	7.7	17.4	74.0
25668.000000	55.9	1000.0	1000.000	V	7.0	18.1	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19138.000000	41.1	1000.0	1000.000	V	7.9	12.9	54.0
20205.000000	42.0	1000.0	1000.000	V	7.7	12.0	54.0
21335.000000	41.2	1000.0	1000.000	V	7.2	12.8	54.0
22660.000000	41.8	1000.0	1000.000	V	7.3	12.2	54.0
24259.000000	42.9	1000.0	1000.000	V	7.7	11.1	54.0
25668.000000	42.2	1000.0	1000.000	V	7.0	11.8	54.0

Tested by:

Chris Liang

20190612

Reviewed by:

Jacky Chen

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

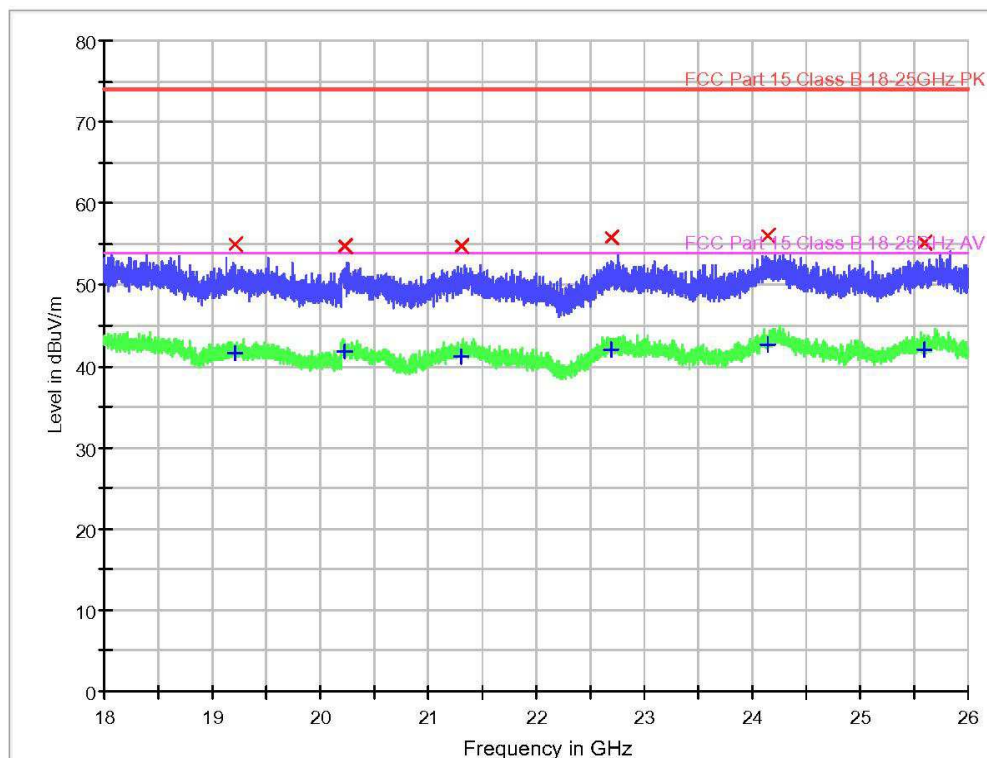
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(40n)-Low)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by:

Chris Liang

20190612

Reviewed by:

Jacky Chen

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19203.000000	55.0	41.5	1000.0	1000.000	H	7.9	19.0	74.0
20230.000000	54.7	41.8	1000.0	1000.000	H	7.7	19.3	74.0
21312.000000	54.7	41.3	1000.0	1000.000	H	7.2	19.3	74.0
22688.000000	55.8	42.0	1000.0	1000.000	H	7.4	18.2	74.0
24150.000000	56.1	42.7	1000.0	1000.000	H	7.8	17.9	74.0
25590.000000	55.1	41.9	1000.0	1000.000	H	7.0	18.9	74.0

Limit and Margin AV

Frequency (MHz)	MaxPeak (dBuV/m)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19203.000000	55.0	41.5	1000.0	1000.000	H	7.9	12.5	54.0
20230.000000	54.7	41.8	1000.0	1000.000	H	7.7	12.2	54.0
21312.000000	54.7	41.3	1000.0	1000.000	H	7.2	12.8	54.0
22688.000000	55.8	42.0	1000.0	1000.000	H	7.4	12.0	54.0
24150.000000	56.1	42.7	1000.0	1000.000	H	7.8	11.3	54.0
25590.000000	55.1	41.9	1000.0	1000.000	H	7.0	12.1	54.0

Tested by: *Chris Liang*

20190612

Reviewed by: *Jacky Chen*

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

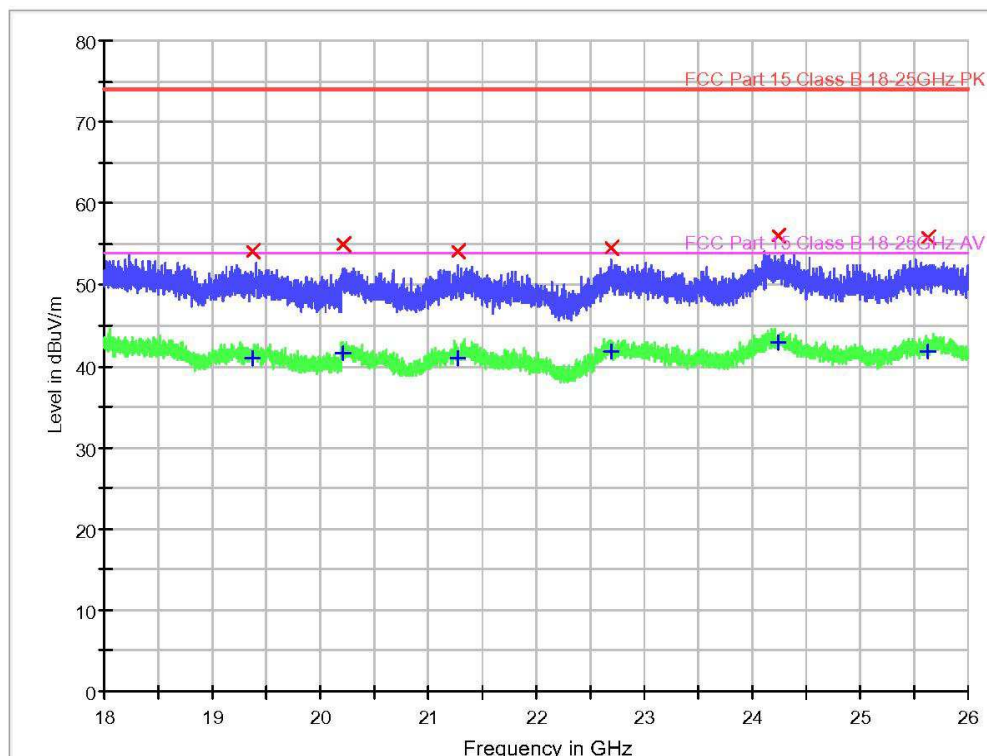
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(40n)-Middle)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: *Chris Liang*

20190612

Reviewed by: *Jacky Chen*

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19364.000000	54.1	1000.0	1000.000	V	7.9	19.9	74.0
20208.000000	55.0	1000.0	1000.000	V	7.7	19.0	74.0
21280.000000	54.1	1000.0	1000.000	V	7.2	19.9	74.0
22693.000000	54.5	1000.0	1000.000	V	7.4	19.5	74.0
24247.000000	56.1	1000.0	1000.000	V	7.7	18.0	74.0
25631.000000	55.9	1000.0	1000.000	V	7.0	18.1	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19364.000000	41.0	1000.0	1000.000	V	7.9	13.0	54.0
20208.000000	41.7	1000.0	1000.000	V	7.7	12.3	54.0
21280.000000	41.0	1000.0	1000.000	V	7.2	13.0	54.0
22693.000000	41.7	1000.0	1000.000	V	7.4	12.3	54.0
24247.000000	42.8	1000.0	1000.000	V	7.7	11.2	54.0
25631.000000	41.9	1000.0	1000.000	V	7.0	12.2	54.0

Tested by:

Chris Liang

20190612

Reviewed by:

Jacky Chen

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

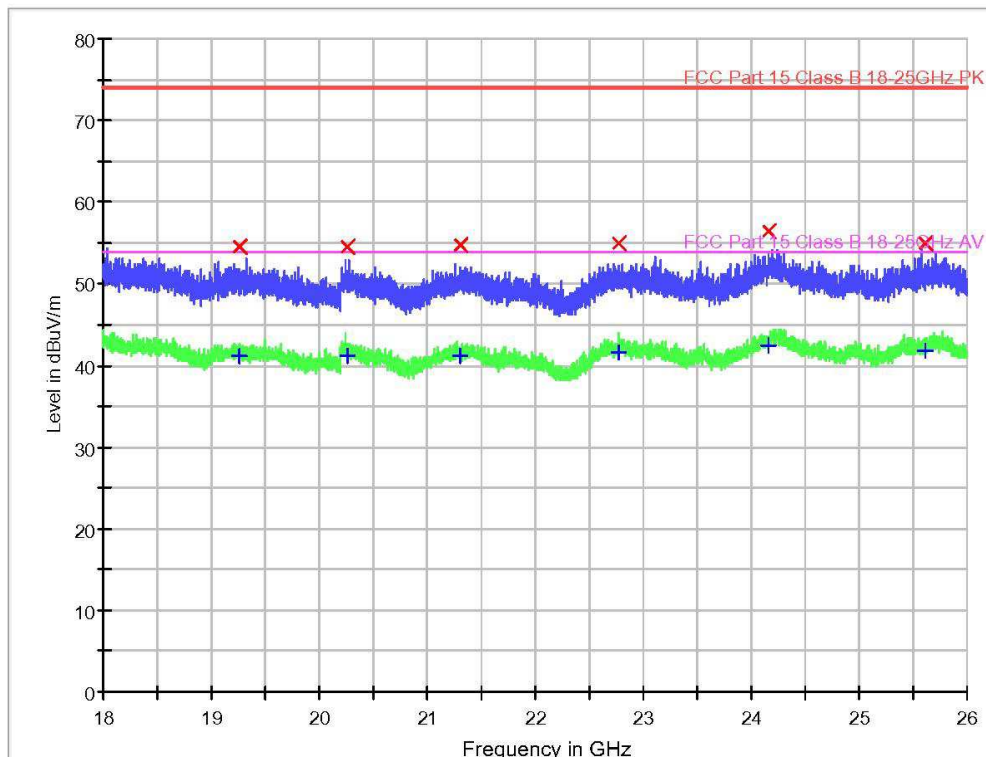
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(40n)-Middle)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: Chris Liang

20190612

Reviewed by: Jacky Chen

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19253.000000	54.6	1000.0	1000.000	H	7.9	19.4	74.0
20252.000000	54.6	1000.0	1000.000	H	7.6	19.5	74.0
21303.000000	54.8	1000.0	1000.000	H	7.2	19.3	74.0
22777.000000	54.9	1000.0	1000.000	H	7.4	19.1	74.0
24167.000000	56.4	1000.0	1000.000	H	7.7	17.6	74.0
25618.000000	54.9	1000.0	1000.000	H	7.0	19.1	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19253.000000	41.2	1000.0	1000.000	H	7.9	12.8	54.0
20252.000000	41.2	1000.0	1000.000	H	7.6	12.8	54.0
21303.000000	41.1	1000.0	1000.000	H	7.2	12.9	54.0
22777.000000	41.6	1000.0	1000.000	H	7.4	12.4	54.0
24167.000000	42.5	1000.0	1000.000	H	7.7	11.5	54.0
25618.000000	41.9	1000.0	1000.000	H	7.0	12.1	54.0

Tested by:

Chris Liang

20190612

Reviewed by:

Jacky Chen

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

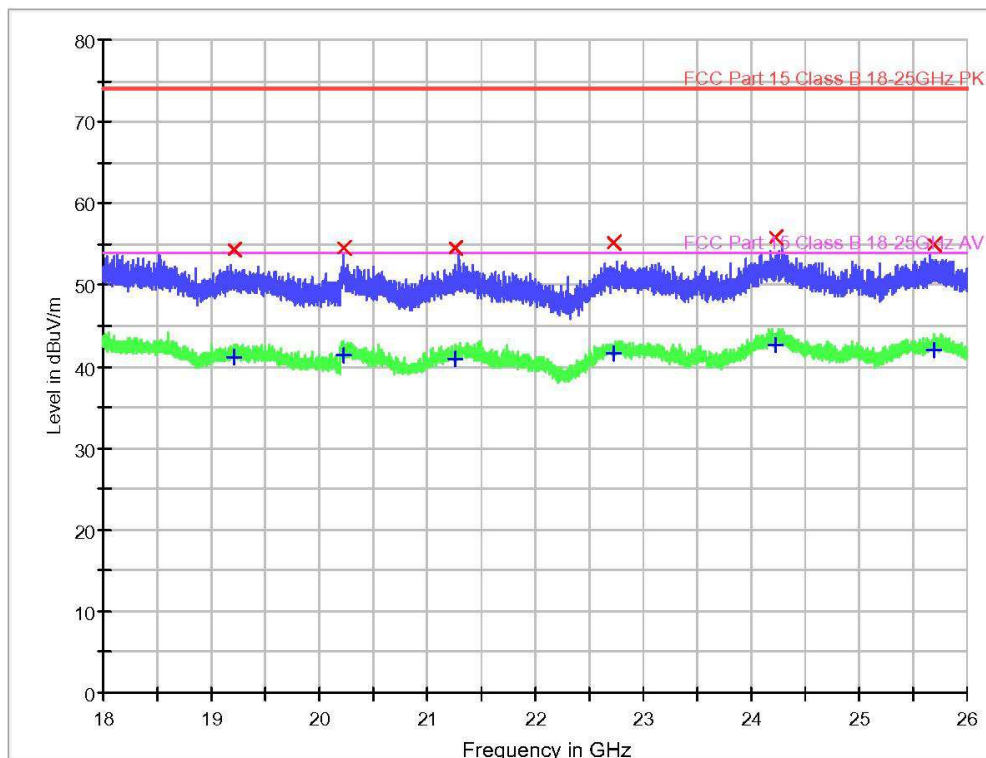
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(40n)-High)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	18GHz-26GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: *Chris Liang*

20190612

Reviewed by: *Jacky Chen*

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19209.000000	54.4	1000.0	1000.000	V	7.9	19.6	74.0
20228.000000	54.5	1000.0	1000.000	V	7.7	19.5	74.0
21264.000000	54.6	1000.0	1000.000	V	7.2	19.4	74.0
22728.000000	55.3	1000.0	1000.000	V	7.4	18.7	74.0
24227.000000	55.7	1000.0	1000.000	V	7.7	18.3	74.0
25695.000000	55.0	1000.0	1000.000	V	7.0	19.0	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19209.000000	41.1	1000.0	1000.000	V	7.9	12.9	54.0
20228.000000	41.3	1000.0	1000.000	V	7.7	12.7	54.0
21264.000000	40.9	1000.0	1000.000	V	7.2	13.1	54.0
22728.000000	41.6	1000.0	1000.000	V	7.4	12.4	54.0
24227.000000	42.6	1000.0	1000.000	V	7.7	11.4	54.0
25695.000000	42.1	1000.0	1000.000	V	7.0	11.9	54.0

Tested by:

Chris Liang

20190612

Reviewed by:

Jacky Chen

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

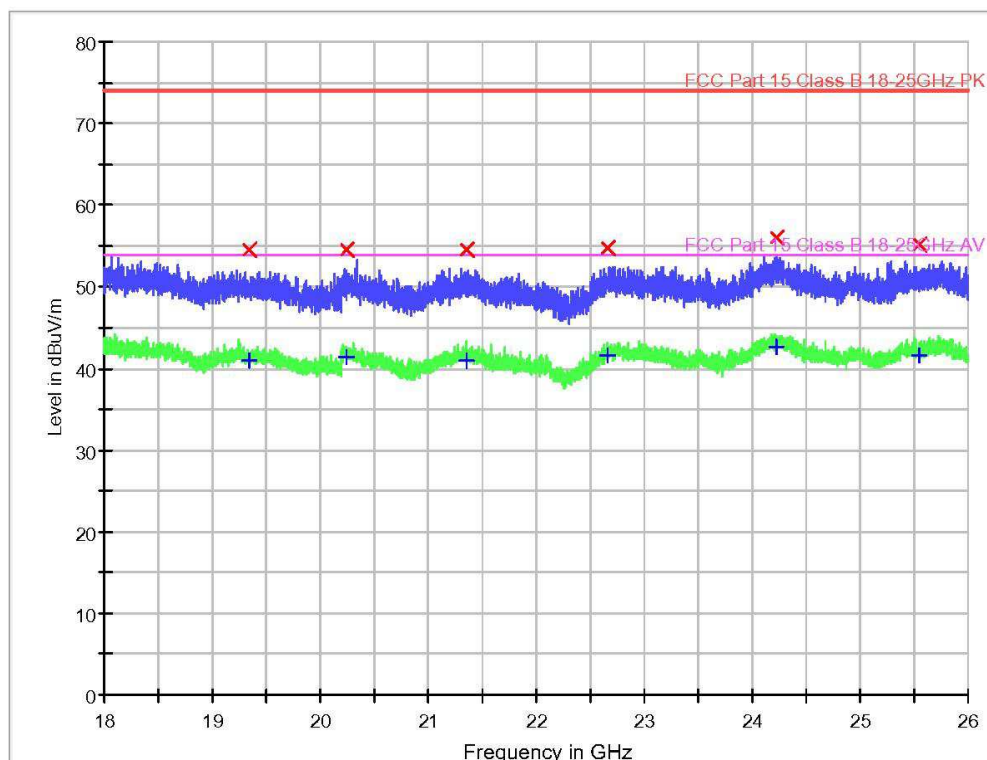
EMC Test Record (Emission)

Common Information

Manufacturer:	Midea
Test Item:	Wi-Fi Module
Identification:	QCA4004SIP
Test Standard:	FCC Part 15
Test Detail:	Spurious Emission
Operation Mode:	Transmitting (802.11(40n)-High)
Climate Condition:	20 °C, 50 %, 101 k Pa
Test Voltage/ Freq:	DC 5.0V
Receipt No:	170109196
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1
Frequency Range: 18GHz-26GHz
Receiver: TUV FSP30
Transducer: TUV SAC Horn 3160-09

EMCTT_EREFO11-A02-08_18GHz-25GHz_With PreAMP EXT



Tested by: Chris Liang

20190612

Reviewed by: Jacky Chen

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
19344.000000	54.6	1000.0	1000.000	H	7.9	19.4	74.0
20237.000000	54.5	1000.0	1000.000	H	7.7	19.6	74.0
21349.000000	54.6	1000.0	1000.000	H	7.2	19.4	74.0
22668.000000	54.7	1000.0	1000.000	H	7.3	19.3	74.0
24227.000000	55.9	1000.0	1000.000	H	7.7	18.1	74.0
25549.000000	55.3	1000.0	1000.000	H	7.0	18.7	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
19344.000000	40.9	1000.0	1000.000	H	7.9	13.1	54.0
20237.000000	41.5	1000.0	1000.000	H	7.7	12.5	54.0
21349.000000	41.1	1000.0	1000.000	H	7.2	13.0	54.0
22668.000000	41.6	1000.0	1000.000	H	7.3	12.4	54.0
24227.000000	42.7	1000.0	1000.000	H	7.7	11.3	54.0
25549.000000	41.6	1000.0	1000.000	H	7.0	12.4	54.0

Tested by:

Chris Liang

Reviewed by:

Jacky Chen

20190612

20190624

Appendix B.3: Test Results of Conducted Emission on AC Mains

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

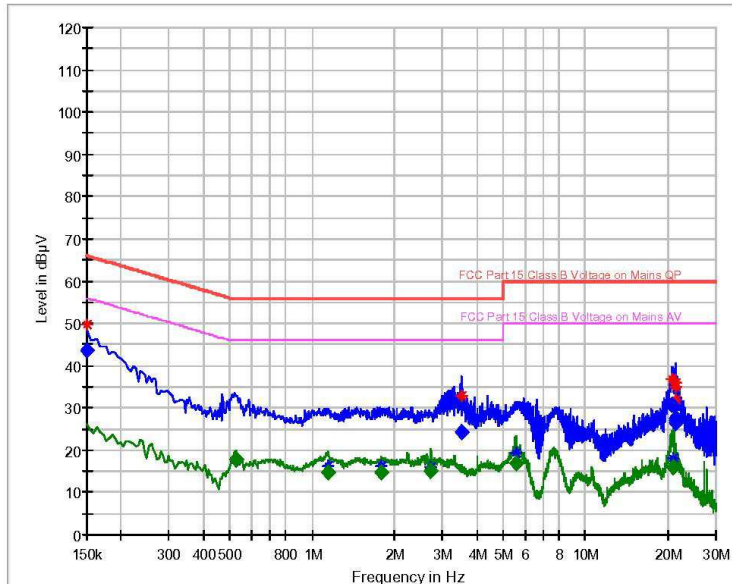
EMC Test Record (EMISSION)

Test Information

Manufacturer: Midea
Test Item: Wi-Fi Module
Identification: QCA4004SIP
Test Standard: FCC Part 15
Test Detail: Conducted Emission
Operation Mode: Transmitting (802.11b-low)
Climate Condition: 21 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq.: AC 120 V/ 60 Hz
Port / Line: AC Mains(L1+N)
Receipt No.: 170109196
Report No.: /
Result: Pass
Comment: /

Hardware Setup: 1phase LISN ENV216 to ESCI 3
Level Unit: dB μ V

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCI 3



Tested by: *Chris Liang*

20190623

Reviewed by: *Jacky Chen*

20190628

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.150000	43.52	---	66.00	22.48	1000.	9.000	N	ON	9.8
0.528000	---	17.79	46.00	28.21	1000.	9.000	L1	ON	9.7
1.144500	---	14.88	46.00	31.12	1000.	9.000	L1	ON	9.8
1.788000	---	14.79	46.00	31.21	1000.	9.000	L1	ON	9.8
2.715000	---	14.94	46.00	31.06	1000.	9.000	N	ON	10.0
3.543000	24.23	---	56.00	31.77	1000.	9.000	N	ON	10.0
5.563500	---	16.89	50.00	33.11	1000.	9.000	N	ON	10.2
20.616000	30.58	---	60.00	29.42	1000.	9.000	L1	ON	11.1
21.021000	---	16.07	50.00	33.93	1000.	9.000	L1	ON	11.1
21.286500	27.09	---	60.00	32.91	1000.	9.000	N	ON	11.2
21.444000	27.62	---	60.00	32.38	1000.	9.000	L1	ON	11.1
21.466500	26.45	---	60.00	33.55	1000.	9.000	L1	ON	11.1

Tested by:

Chris Liang

Reviewed by:

Jacky Chen

20190623

20190628