5.6 Transmitter Spurious Emission - Radiated

Specifications:	FCC Part 15. 407 (b)
DUT Serial Number:	S7/18: 862851030000163/862851030020161
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 15.407(b)

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: --

Test Result:

A “reference path loss” is established and ARpi is the attenuation of “reference path loss”, and including the gain of receive antenna , the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

ARpi= Cable loss + Antenna Gain-Preamplifier gain

Result=PMea + ARpi

Channel	Frequency Range	Test Results	Conclusion
Ch36	30MH-1GHz	Fig. 332	Pass
	1GHz-3GHz	Fig. 333	Pass
	3GHz-6GHz	Fig. 334	Pass

Channel	Frequency Range	Test Results	Conclusion
Ch100	30MH-1GHz	Fig. 335	Pass
	1GHz-3GHz	Fig. 336	Pass
	3GHz-6GHz	Fig. 337	Pass

Channel	Frequency Range	Test Results	Conclusion
Ch149	30MH-1GHz	Fig. 338	Pass
	1GHz-3GHz	Fig. 339	Pass
	3GHz-6GHz	Fig. 340	Pass
All channels	6GHz-18GHz	Fig. 341	Pass
All channels	18GHz-26GHz	Fig. 342	Pass
All channels	26GHz-40GHz	Fig. 343	Pass

Note: all the test data shown was peak detected.

Conclusion: PASS

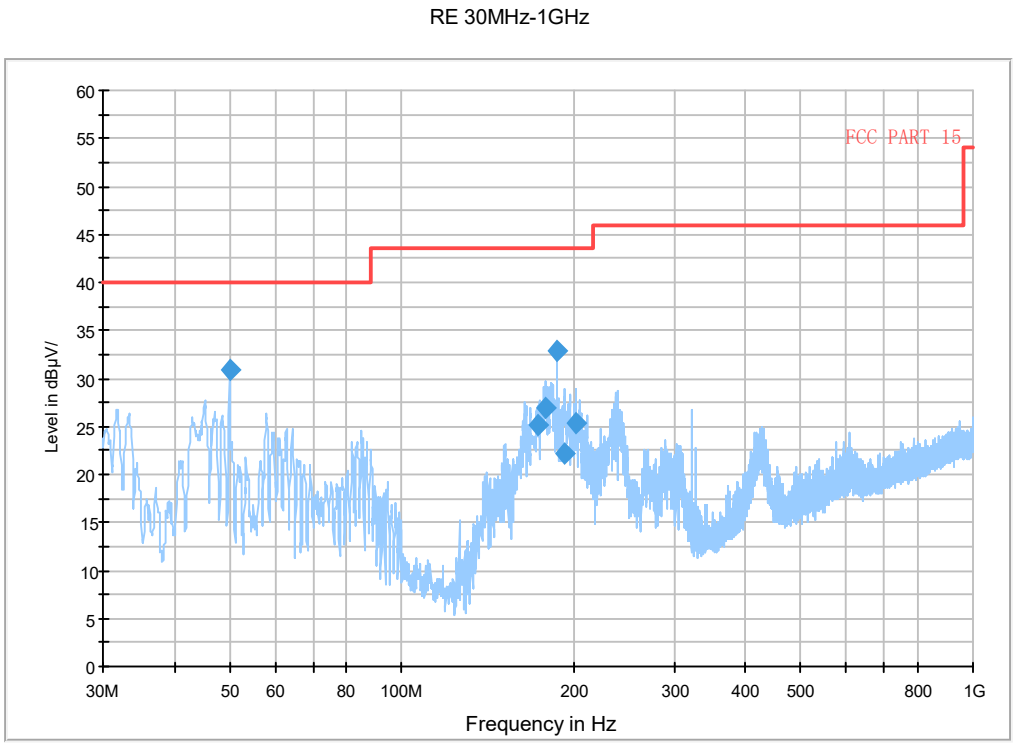


Fig. 468 Radiated emission: Ch36, 30MHz-1GHz

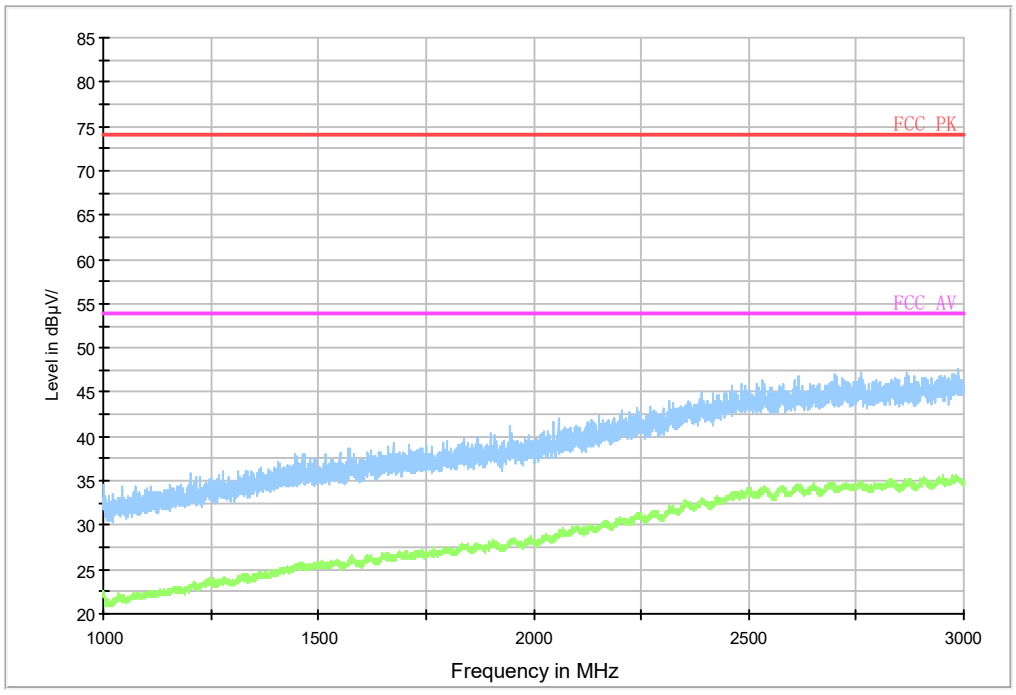


Fig. 469 Radiated emission: Ch36, 1GHz-3GHz

RE 3GHz-6GHz

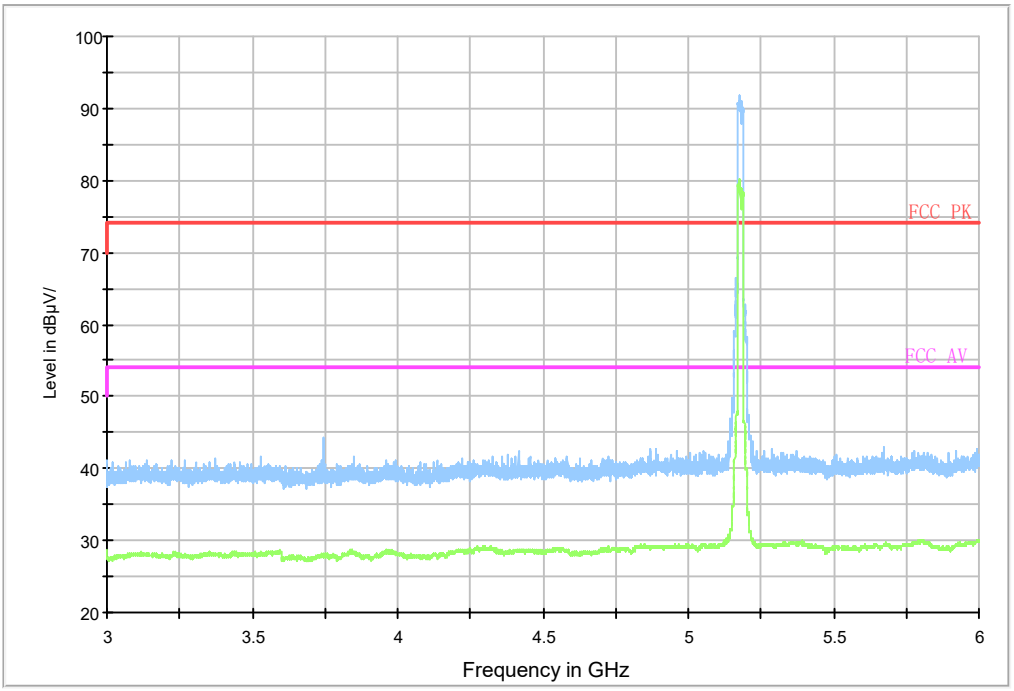


Fig. 470 Radiated emission: Ch36, 3GHz-6GHz

RE 30MHz-1GHz

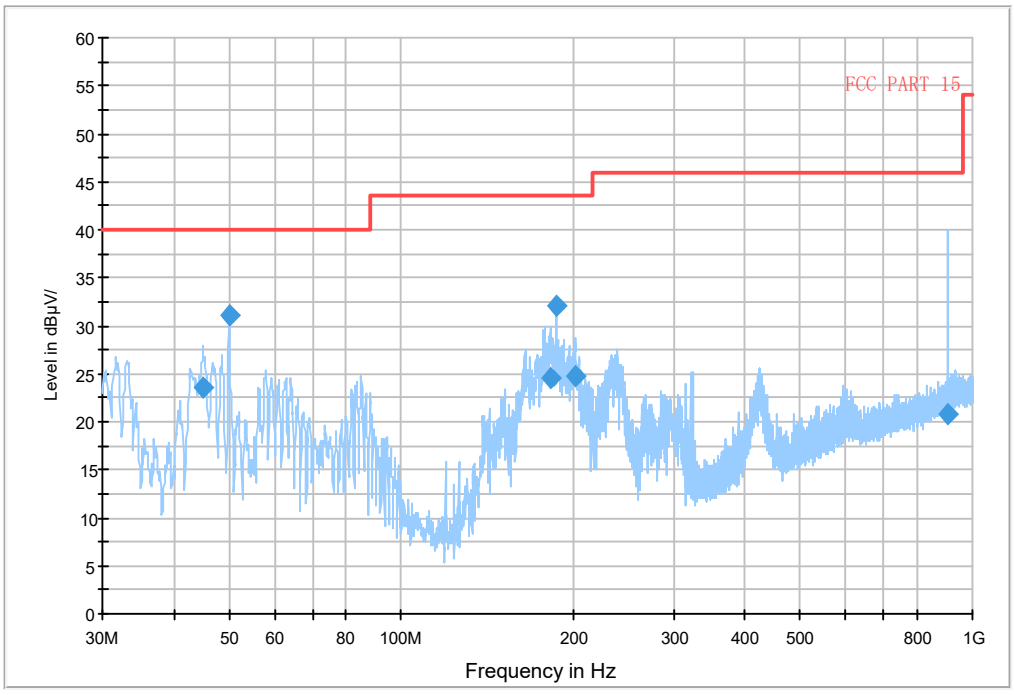


Fig. 471 Radiated emission: Ch100, 30MHz-1GHz

RE 1GHz-3GHz

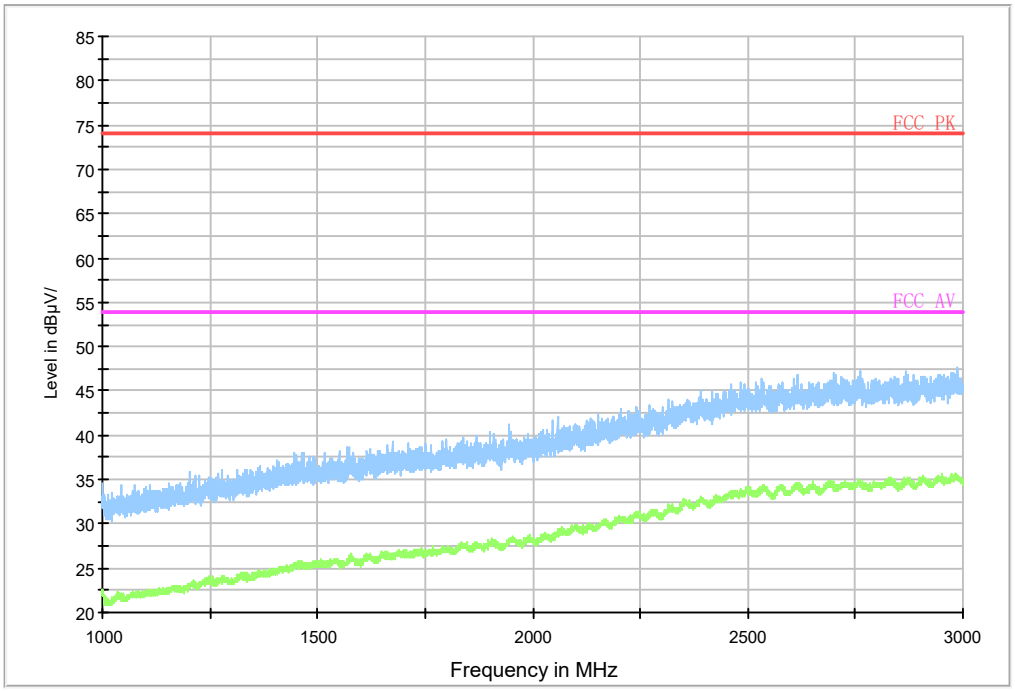


Fig. 472 Radiated emission: Ch100, 1GHz-3GHz

RE 3GHz-6GHz

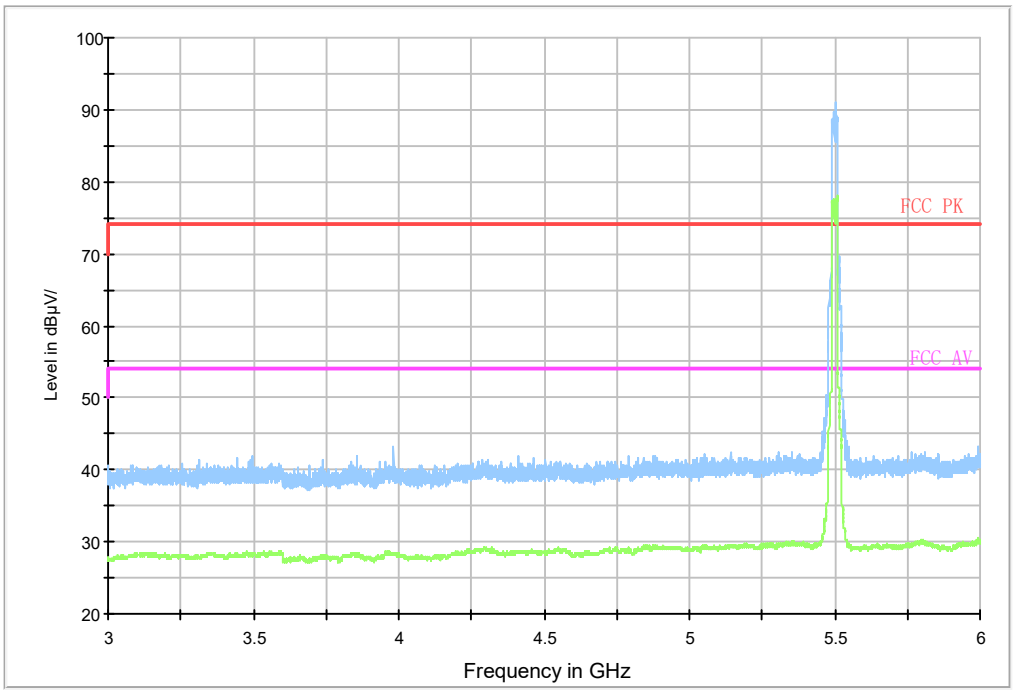


Fig. 473 Radiated emission: Ch100, 3GHz-36GHz

RE 30MHz-1GHz

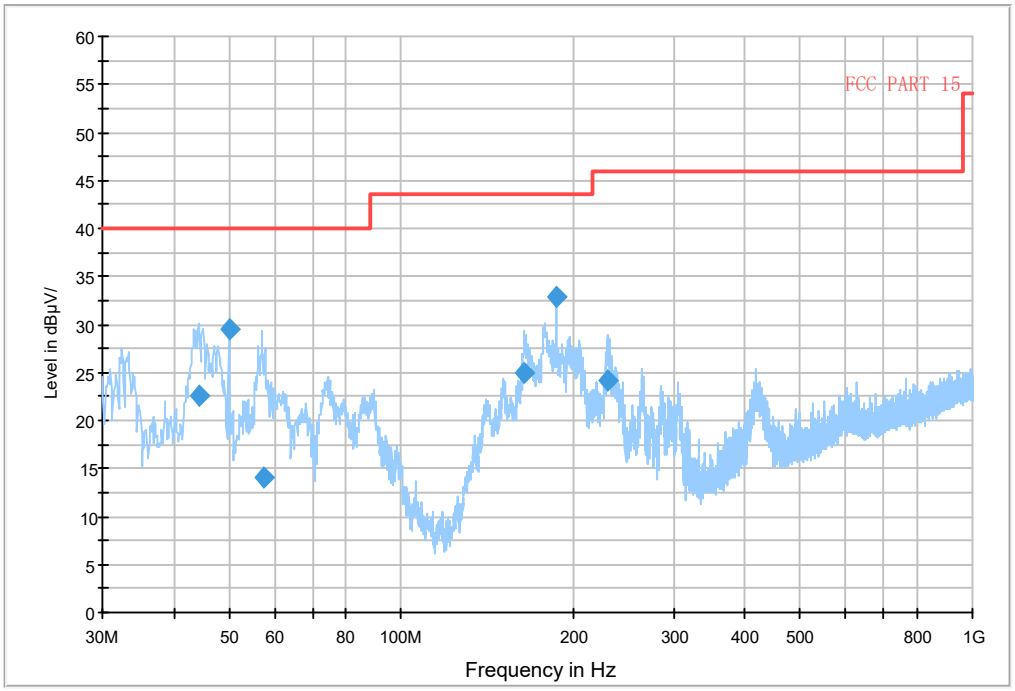


Fig. 474 Radiated emission: Ch149, 30MHz-1GHz

RE 1GHz-3GHz

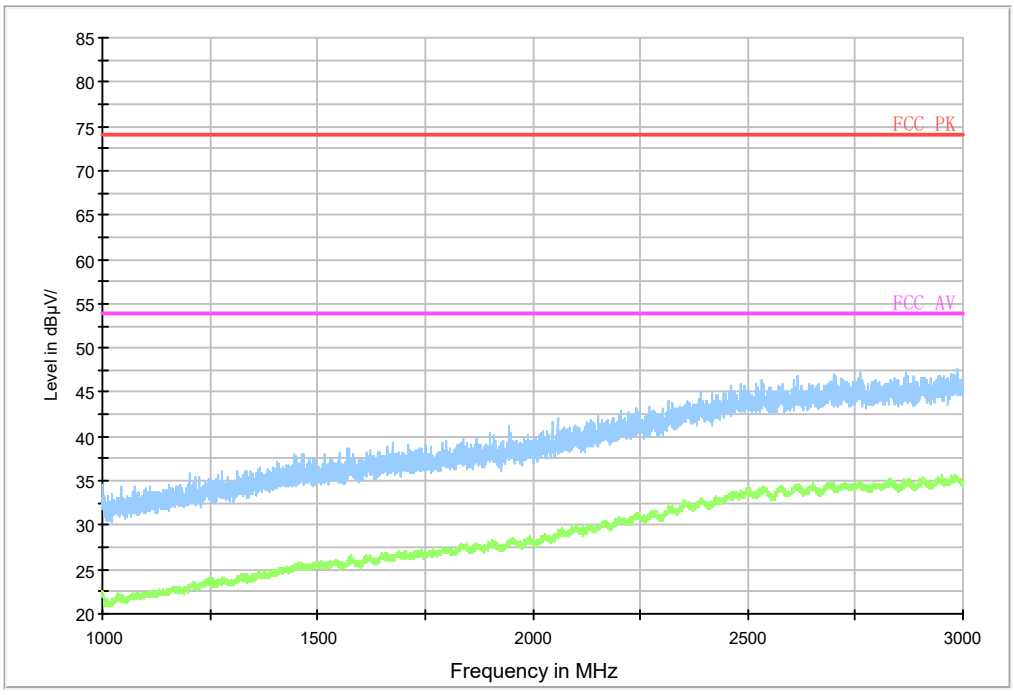


Fig. 475 Radiated emission: Ch149, 1GHz-3GHz

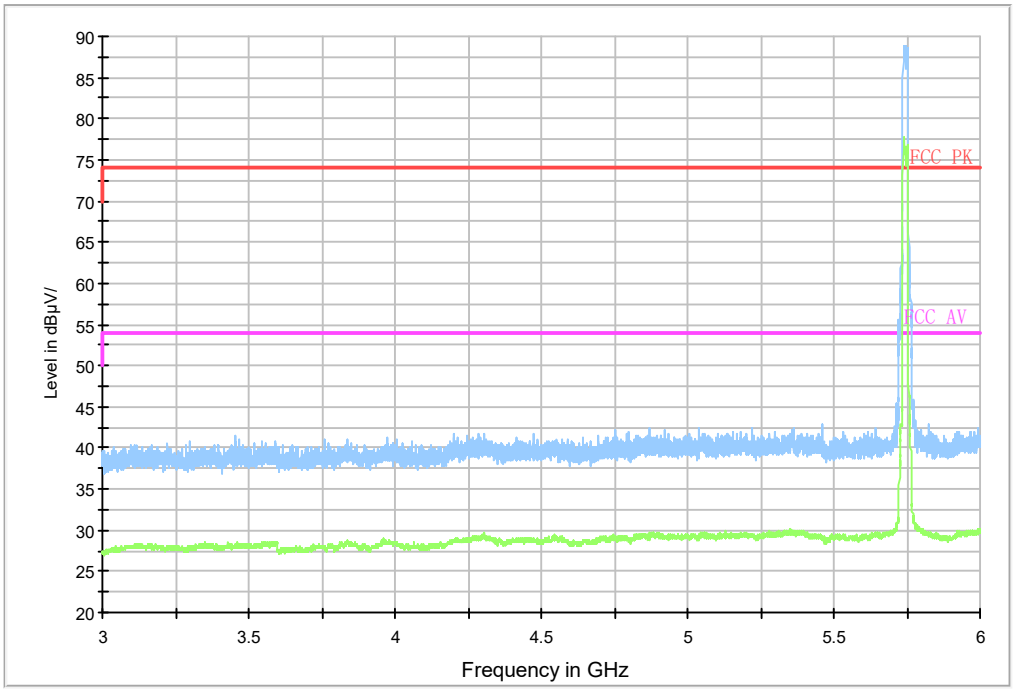


Fig. 476 Radiated emission: Ch149, 3GHz-6GHz

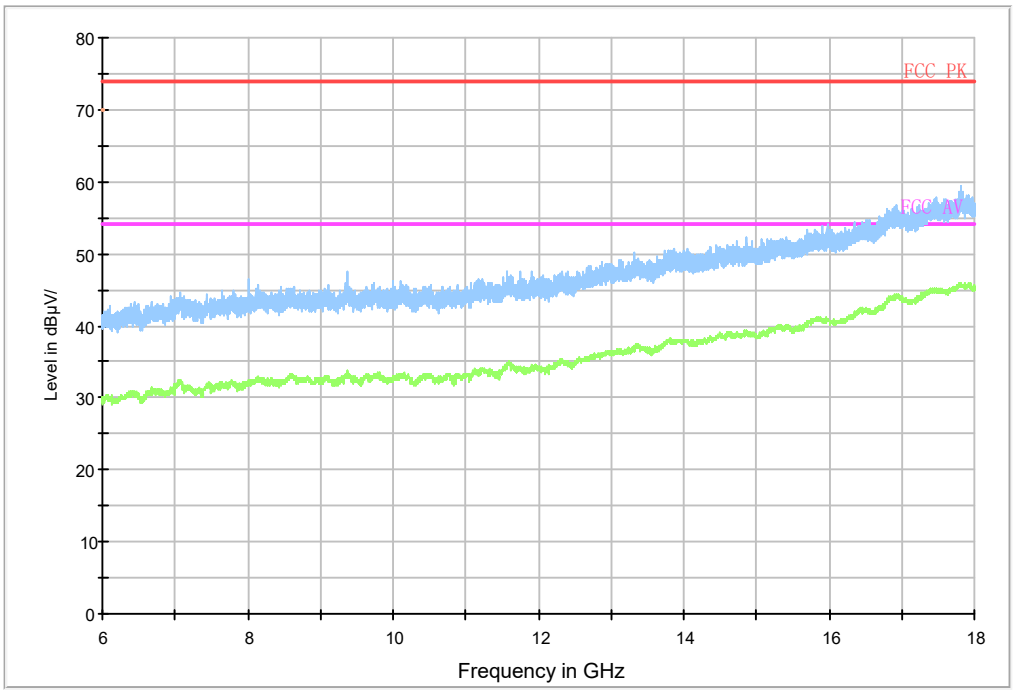


Fig. 477 All channels 6GHz-18GHz

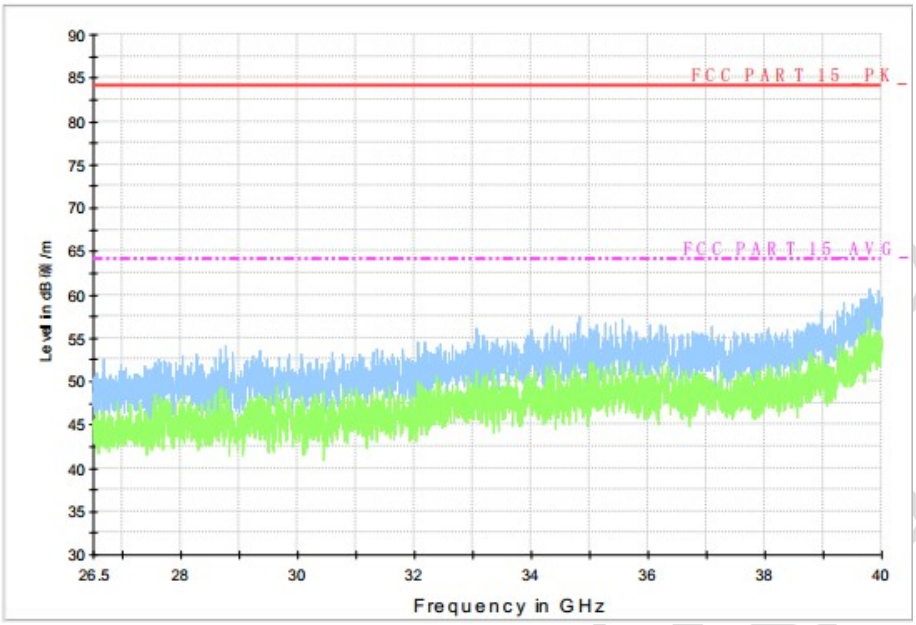


Fig. 478 All channels 18GHz-26GHz

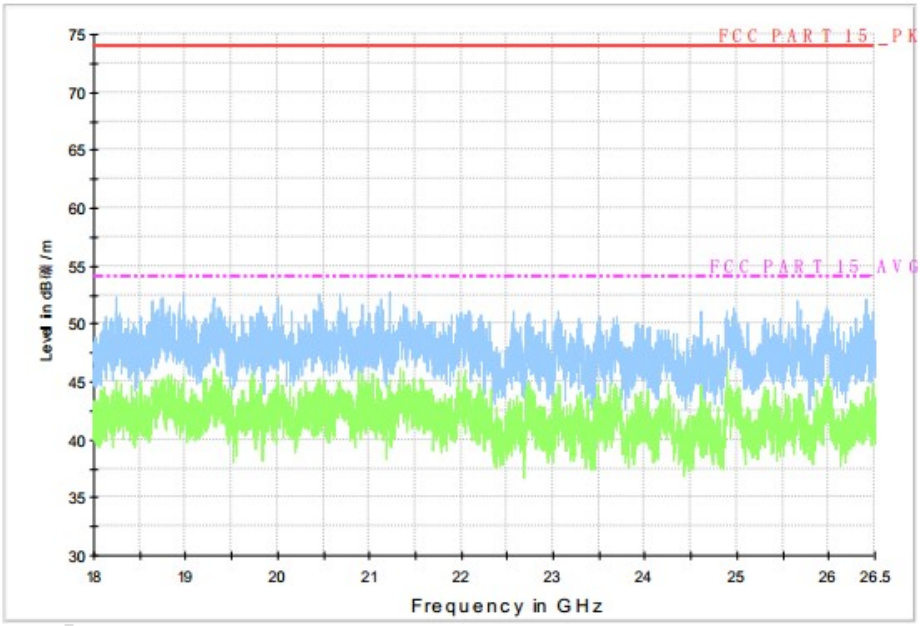


Fig. 479 All channels 26GHz-40GHz

5.7 AC Powerline Conducted Emission

Specifications:	FCC Part 15. 407 (b)
DUT Serial Number:	S7/18: 862851030000163/862851030020161
Test conditions:	Ambient Temperature:15℃-35℃ Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

According to Part 15.407(b)

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note: --

Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

The measurement is made according to Public notice FCC Public Notice DA 00-705, March 2000, and ANSI C63.4-2014.

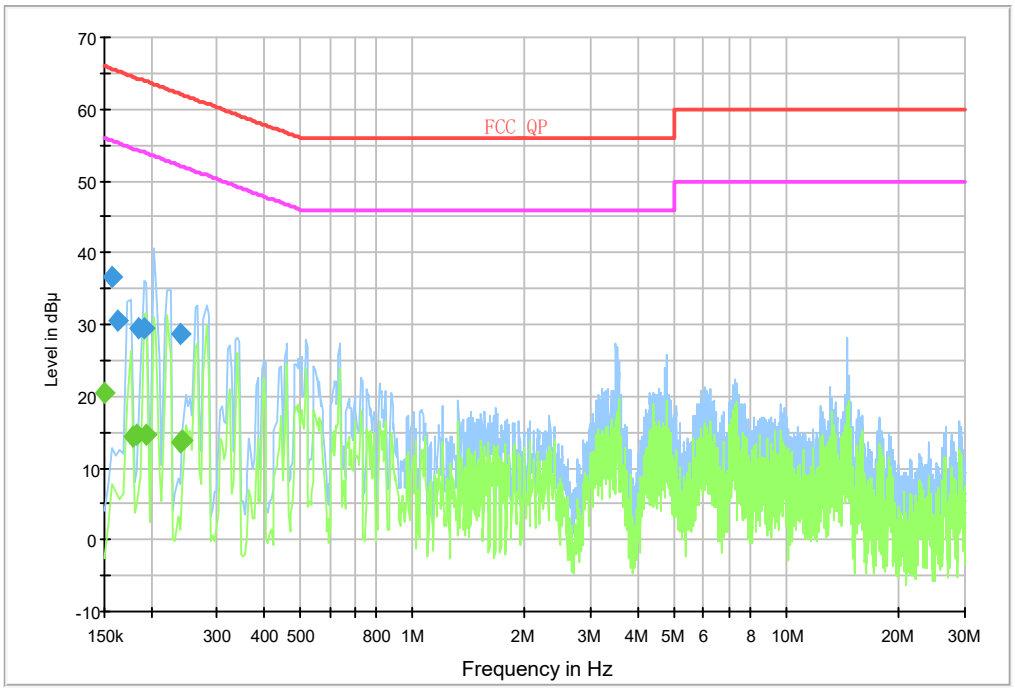
Test Result:

Line L&N					
Detector (QP)	Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Line	PE
QP	65.6	65.6	65.6	N	FLO
QP	65.4	65.4	65.4	L1	FLO
QP	64.2	64.2	64.2	L1	FLO
QP	64.0	64.0	64.0	N	FLO
QP	62.1	62.1	62.1	N	FLO
QP	0.245672	26.1	62.2	N	FLO

Line L&N					
Detector (AV)	Frequency (MHz)	Level (dBμV)	Limit (dBμV)	Line	PE
AV	0.150000	20.5	56.0	N	FLO
AV	0.178000	14.5	54.6	L1	FLO
AV	0.183938	14.7	54.3	L1	FLO
AV	0.194000	14.6	53.9	L1	FLO
AV	0.238594	13.5	52.1	L1	FLO
AV	0.242000	13.8	52.0	L1	FLO

Conclusion: PASS

CISPR N&L1 Voltage 150k to 30MHz-Class B



Line L &Line N

Test photo

See the Pic7 in document" A1-901 _Wifi_BT_Test Setup Photos".

Annex A EUT Photos

See the document"A1-901-External Photos".
See the document"A1-901-Internal Photos".

ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

End Of Report