



Test Report No: PSZ-QBJ2501200112RF14

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**Radiated Emission**

After comparison, the worst case attitude is EUT lay down.

**Determining Spurious Emissions Levels**

A “reference path loss” is established and the  $A_{Rpl}$  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:

Result=  $P_{mea} + A_{Rpl}$

Sample calculation:  $(8.99\text{dB}\mu\text{V/m}) = (24.69\text{dB}\mu\text{V}) + (-15.7\text{dB/m})$ , the corresponding frequency is 46.587MHz.

**WLAN 2.4G**

Frequency range:2400-2483.5MHz

For 802.11b Channel No.:worst

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.587	8.99	-15.7	24.69	Vertical	40	31.01
55.8505	9.06	-15.7	24.76	Vertical	40	30.94
99.355	6.26	-17.4	23.66	Vertical	43.5	37.24
202.3205	6.55	-16.9	23.45	Vertical	43.5	36.95
518.395	13.2	-8.8	22	Vertical	46	32.8
935.9315	18.61	-1.8	20.41	Vertical	46	27.39

For 802.11g Channel No.:worst

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.527	8.76	-15.4	24.16	Vertical	40	31.24
61.913	7.67	-16.8	24.47	Vertical	40	32.33
96.8815	6.11	-17.7	23.81	Vertical	43.5	37.39
207.51	6.01	-17.2	23.21	Vertical	43.5	37.49
554.8185	12.94	-8.1	21.04	Vertical	46	33.06
921.2845	18.55	-1.7	20.25	Vertical	46	27.45

For 802.11n Channel No.:worst

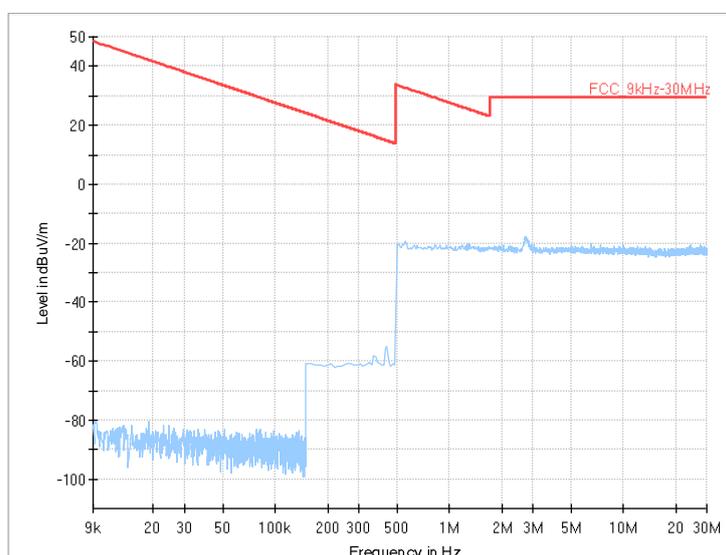
Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
46.199	8.76	-15.7	24.46	Vertical	40	31.24
55.123	9.05	-15.7	24.75	Vertical	40	30.95
99.064	6.07	-17.4	23.47	Vertical	43.5	37.43
198.0525	7.14	-16.5	23.64	Vertical	43.5	36.36
508.6465	12.67	-9.1	21.77	Vertical	46	33.33
927.4925	18.85	-1.7	20.55	Vertical	46	27.15

For 802.11ax(part RU) Channel No.:worst

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.7025	9.35	-15.5	24.85	Vertical	40	30.65
54.2985	9.19	-15.6	24.79	Vertical	40	30.81
104.108	7.24	-17	24.24	Vertical	43.5	36.26
204.115	6.41	-17.1	23.51	Vertical	43.5	37.09
521.3535	13.22	-8.8	22.02	Vertical	46	32.78
928.608	18.82	-1.6	20.42	Vertical	46	27.18

For 802.11be(part RU) Channel No.:worst

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
42.319	7.16	-16.4	23.56	Vertical	40	32.84
55.996	8.88	-15.7	24.58	Vertical	40	31.12
104.981	6.92	-17	23.92	Vertical	43.5	36.58
199.6045	6.84	-16.6	23.44	Vertical	43.5	36.66
530.132	13.29	-8.7	21.99	Vertical	46	32.71
877.004	18.07	-2.3	20.37	Vertical	46	27.93

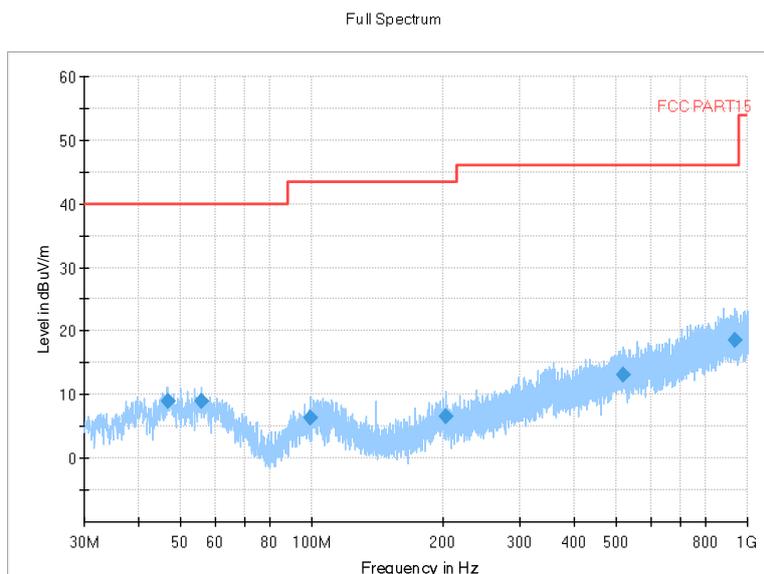


Frequency Range: 9kHz -30MHz

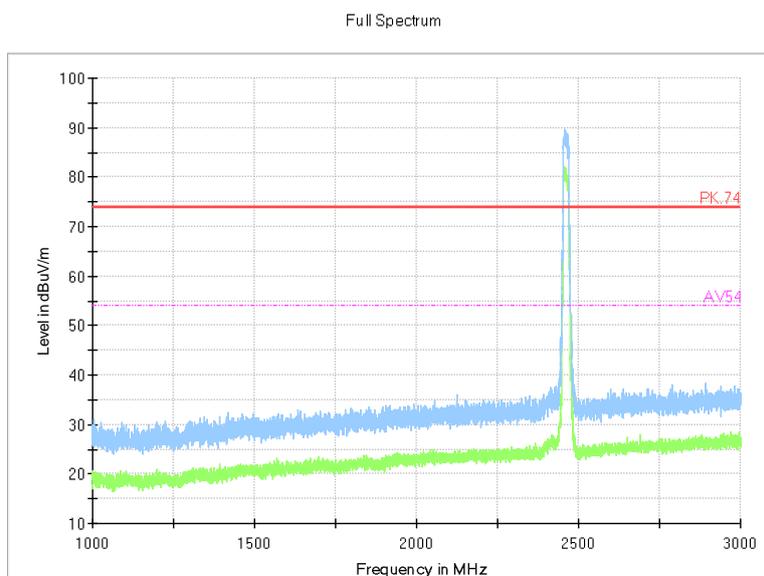
Detector: QP mode

Note: The relevant tests have been performed in order to verify in which mode would have the worst features, the result show above is the worst case.

Frequency range:2400-2483.5MHz  
 Carrier frequency: worst  
 Channel No.:worst



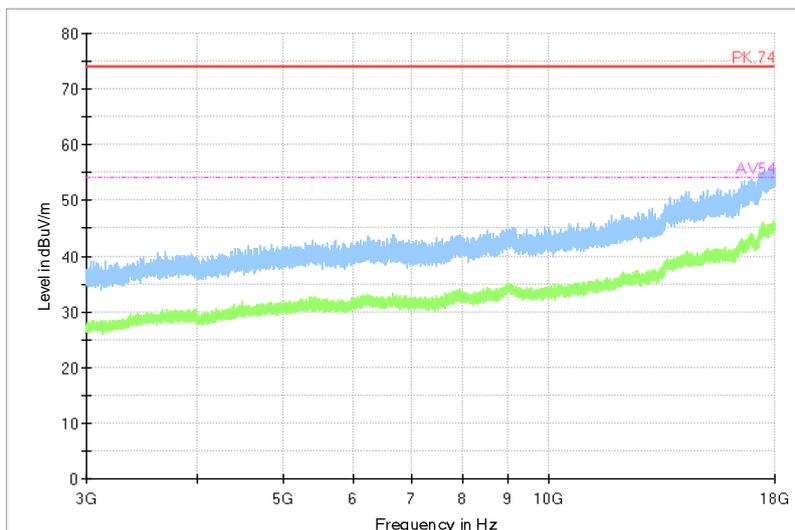
Frequency Range:30MHz -1GHz  
 Detector: QP mode  
 Modulation type: 802.11b



Frequency Range: 1GHz -3GHz

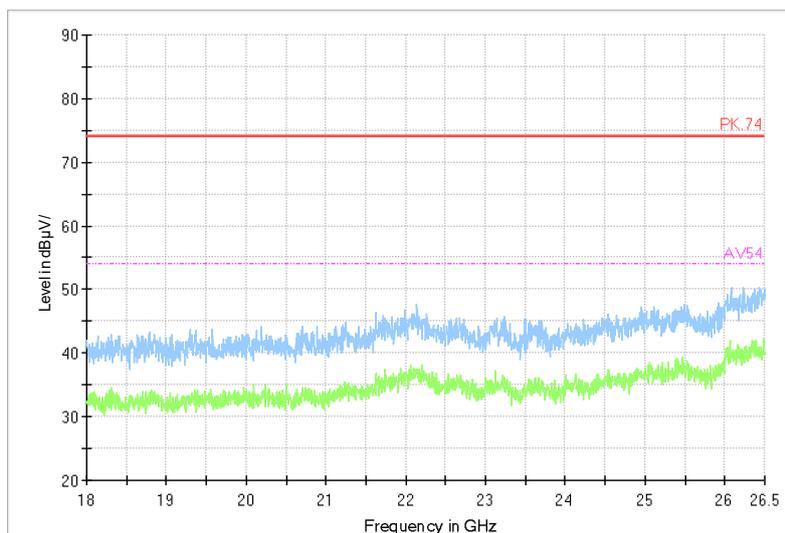
Detector: Av mode and PK mode  
Modulation type: 802.11b

Full Spectrum



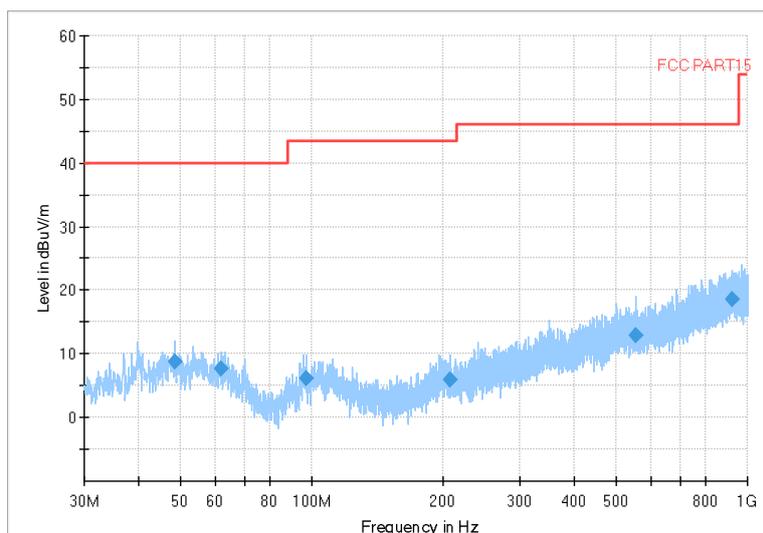
Frequency Range: 3GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

Full Spectrum



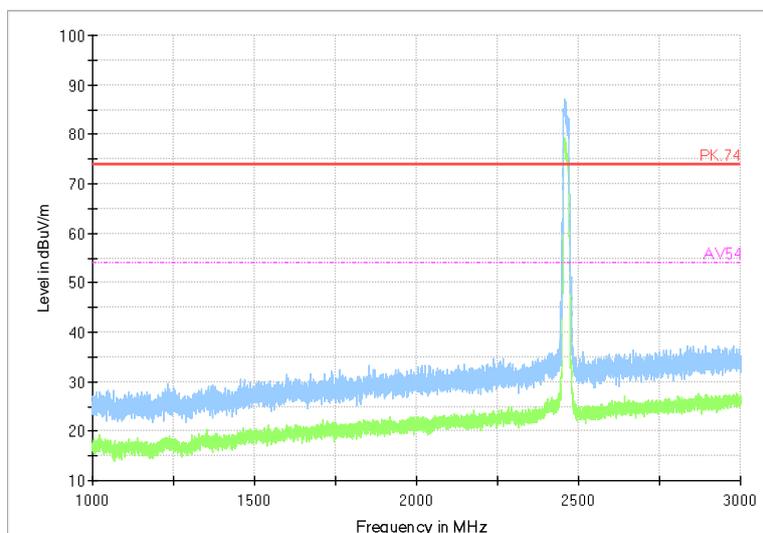
Frequency Range: 18GHz -26GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11b

Full Spectrum



Frequency Range:30MHz -1GHz  
 Detector: QP mode  
 Modulation type: 802.11g

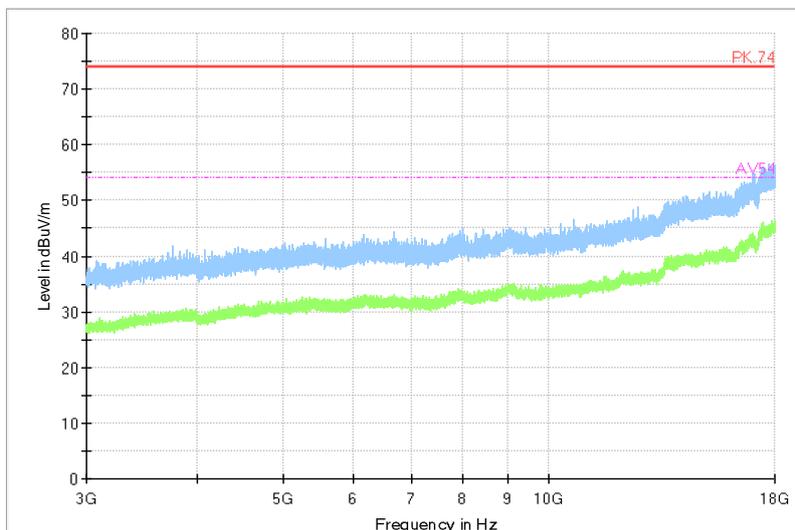
Full Spectrum



Frequency Range: 1GHz -3GHz

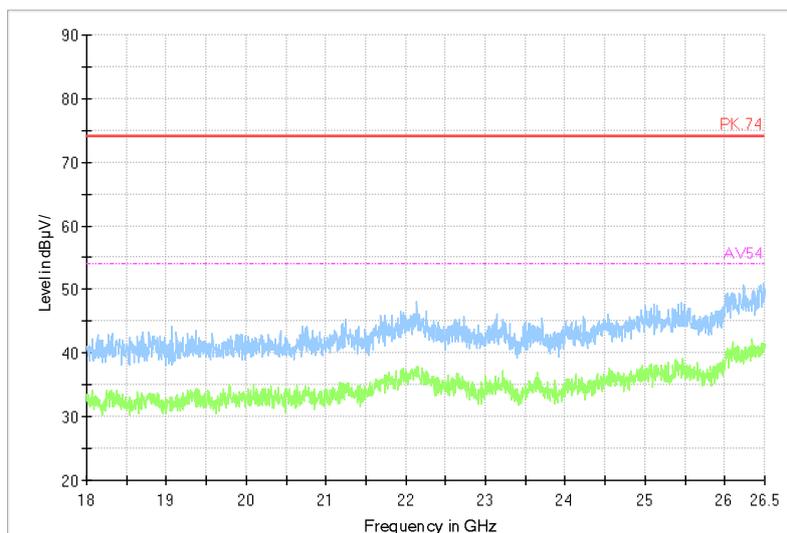
Detector: Av mode and PK mode  
Modulation type: 802.11g

Full Spectrum



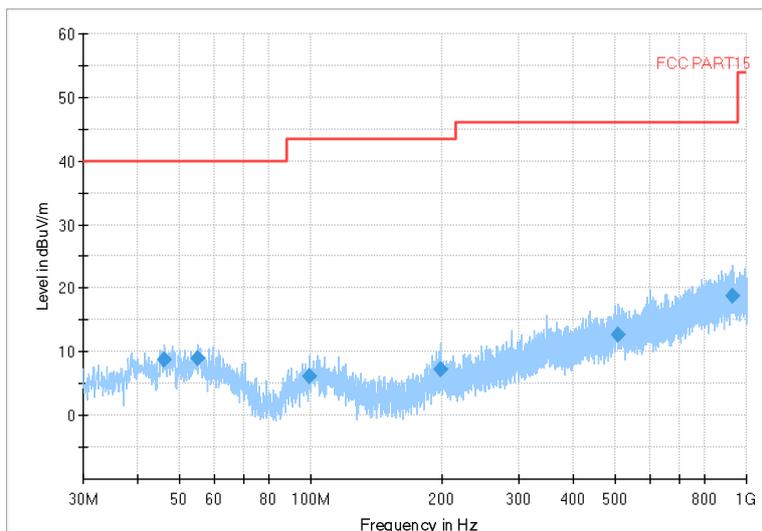
Frequency Range: 3GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

Full Spectrum



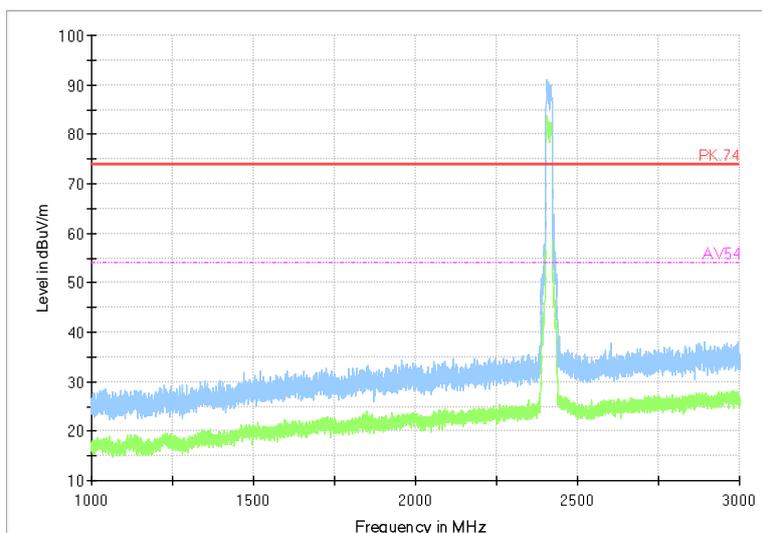
Frequency Range: 18GHz -26GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11g

Full Spectrum



Frequency Range:30MHz -1GHz  
 Detector: QP mode  
 Modulation type: 802.11n

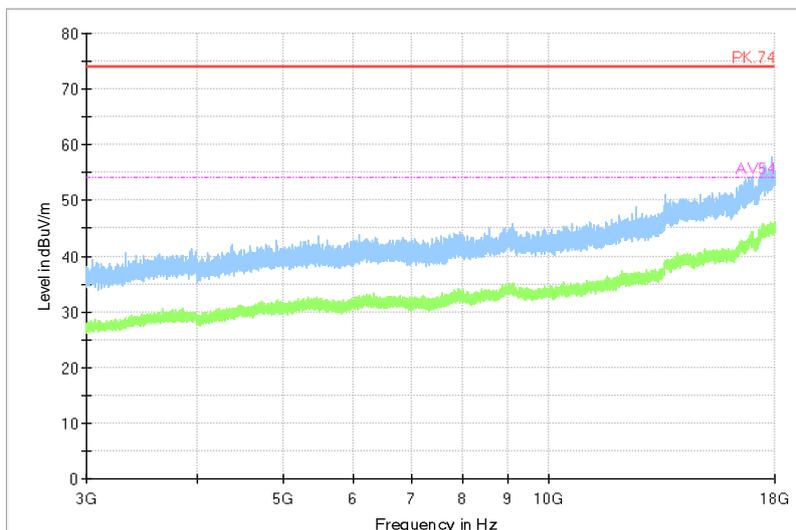
Full Spectrum



Frequency Range: 1GHz -3GHz

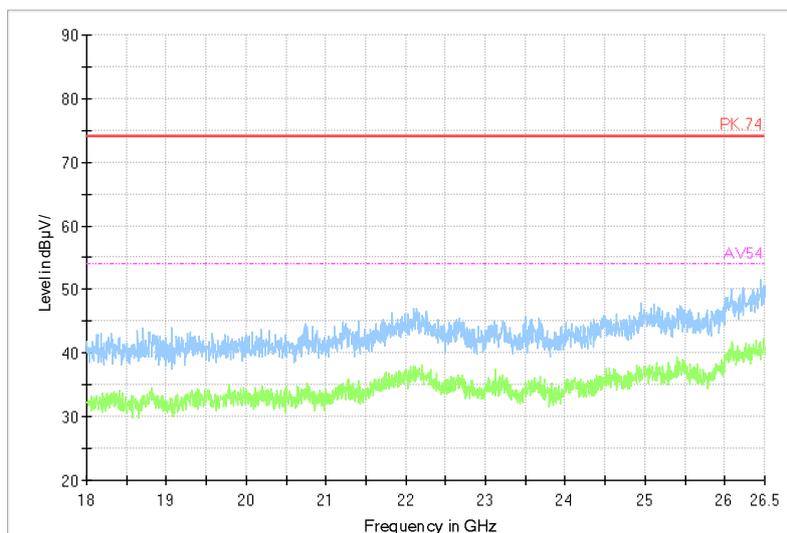
Detector: Av mode and PK mode  
Modulation type: 802.11n

Full Spectrum



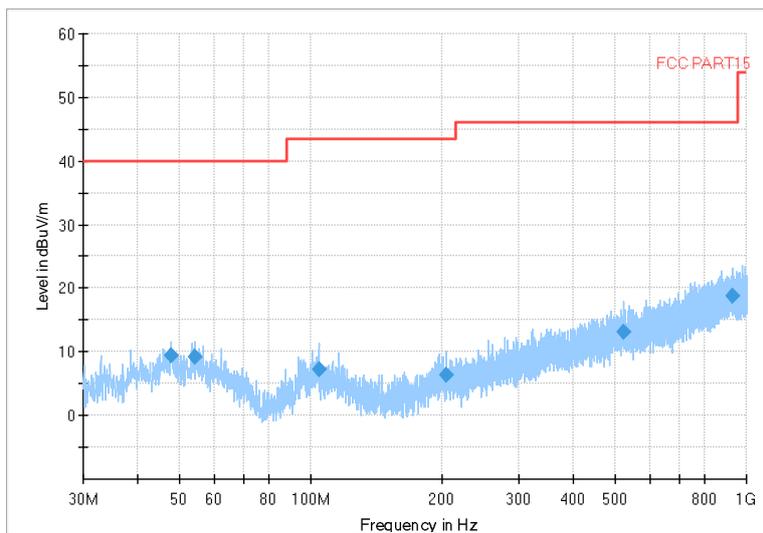
Frequency Range: 3GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11n

Full Spectrum



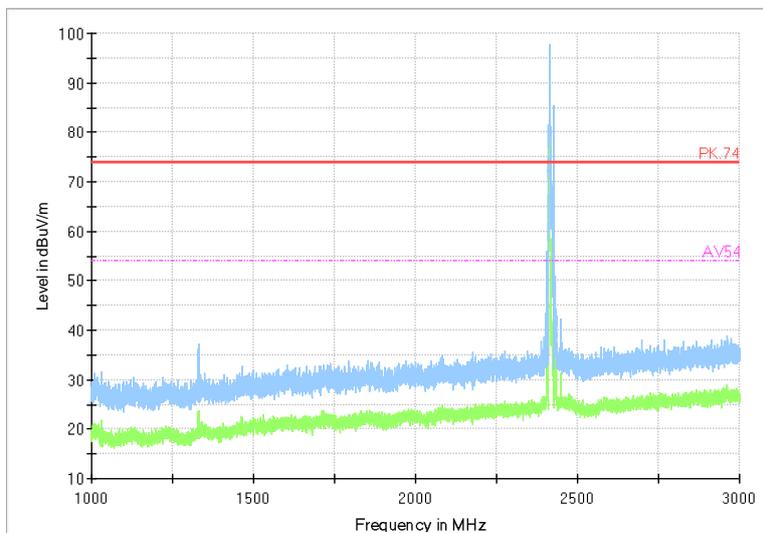
Frequency Range: 18GHz -26GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11n

Full Spectrum



Frequency Range:30MHz -1GHz  
 Detector: QP mode  
 Modulation type: 802.11ax(part RU)

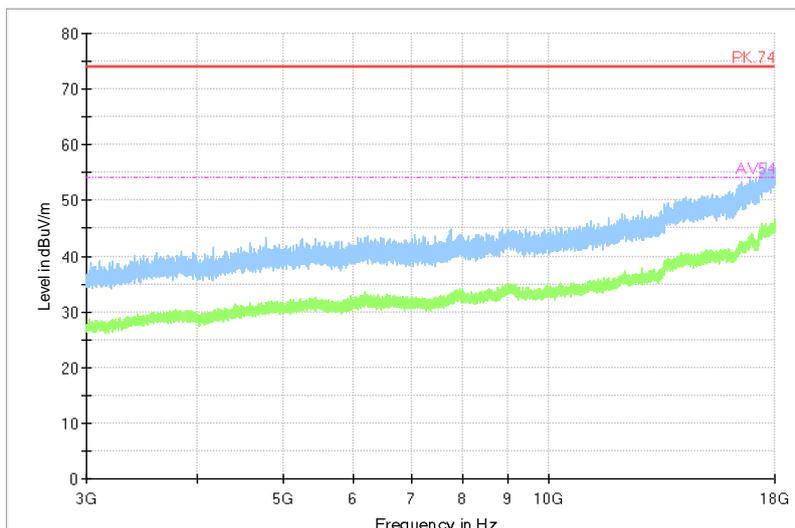
Full Spectrum



Frequency Range: 1GHz -3GHz

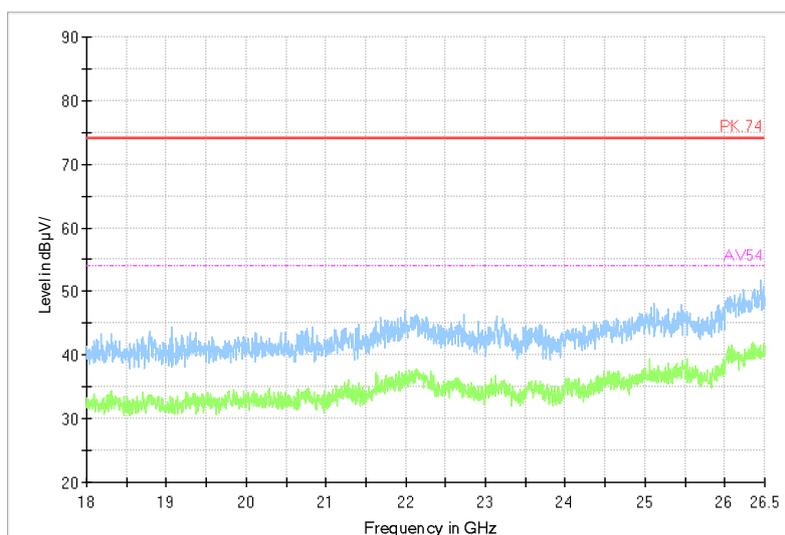
Detector: Av mode and PK mode  
Modulation type: 802.11ax(part RU)

Full Spectrum



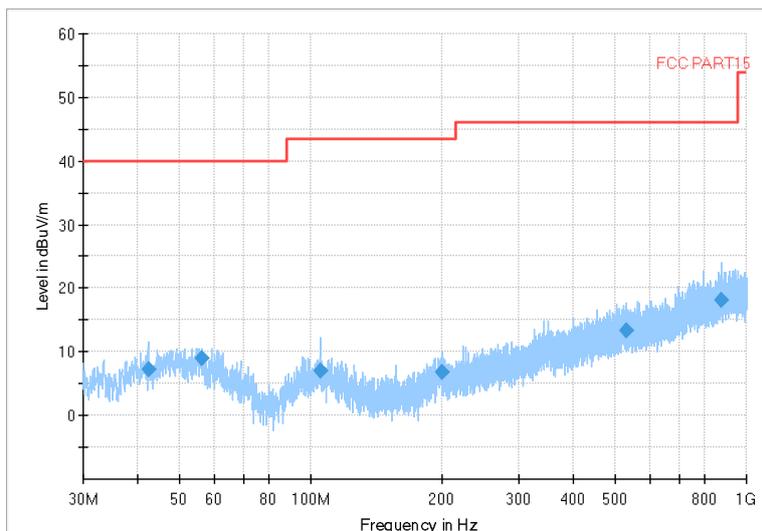
Frequency Range: 3GHz -18GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11ax(part RU)

Full Spectrum



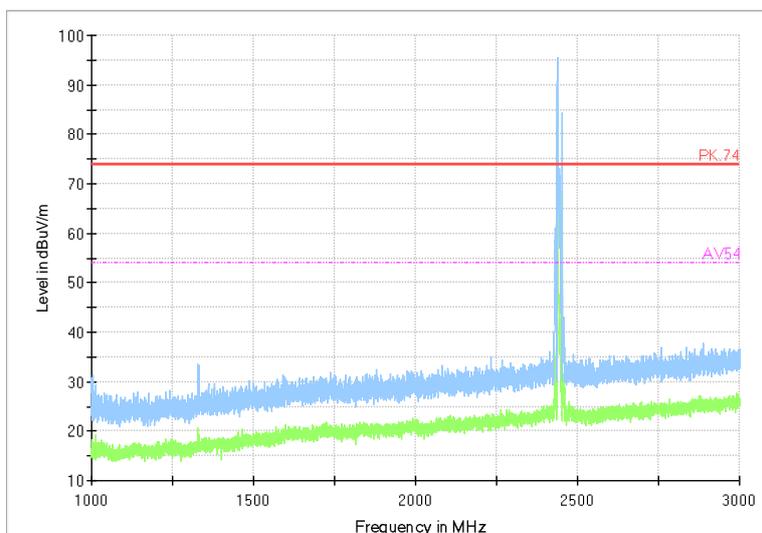
Frequency Range: 18GHz -26GHz  
Detector: Av mode and PK mode  
Modulation type: 802.11ax(part RU)

Full Spectrum



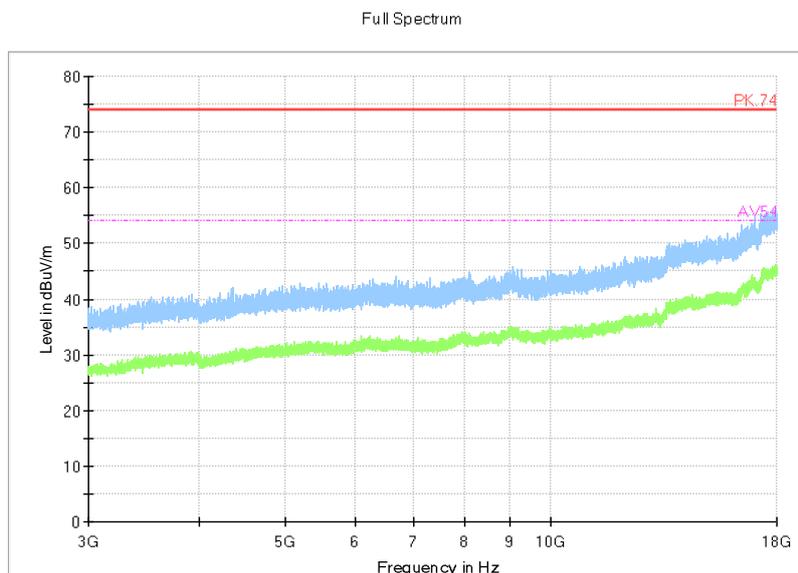
Frequency Range:30MHz -1GHz  
 Detector: QP mode  
 Modulation type: 802.11be(part RU)

Full Spectrum

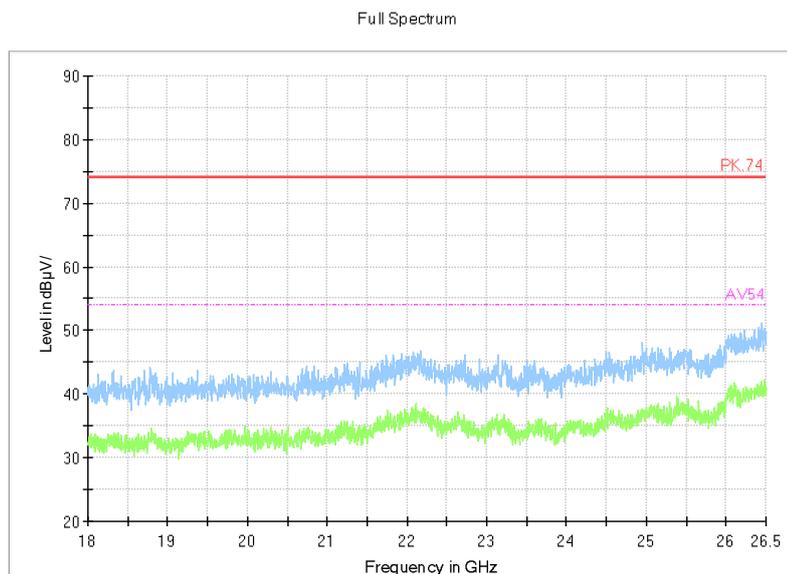


Frequency Range: 1GHz -3GHz

Detector: Av mode and PK mode  
 Modulation type: 802.11be(part RU)



Frequency Range: 3GHz -18GHz  
 Detector: Av mode and PK mode  
 Modulation type: 802.11be(part RU)



Frequency Range: 18GHz -26GHz  
 Detector: Av mode and PK mode



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Modulation type: 802.11be(part RU)

---End of Test Report---