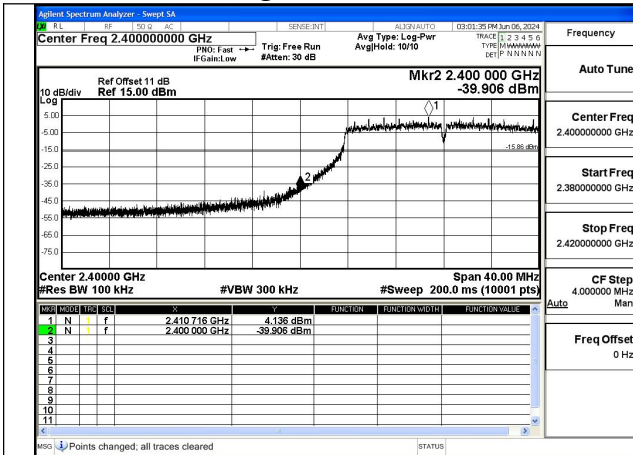
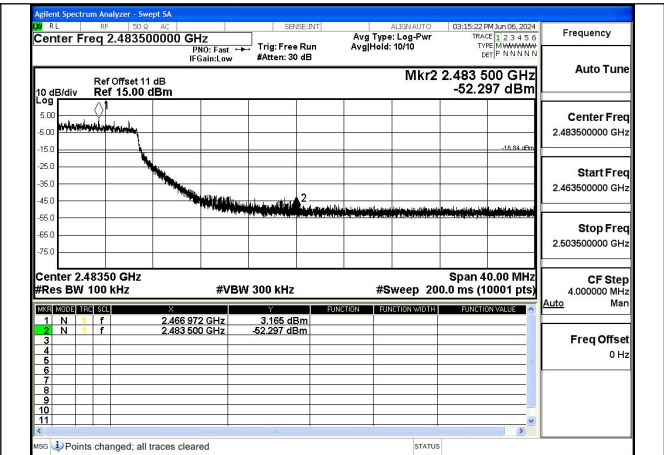


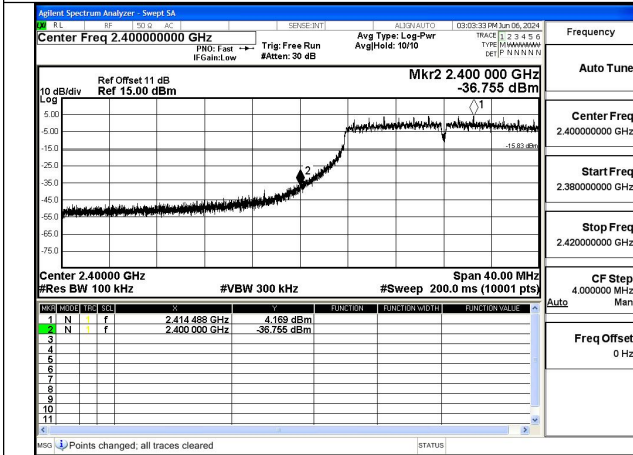
Test Mode: 802.11g



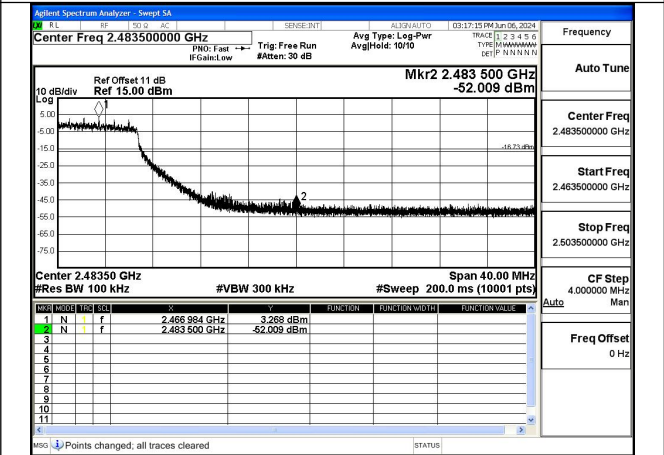
Mode:802.11g Frequency:2412MHz Ant:Chain0



Mode:802.11g Frequency:2462MHz Ant:Chain0

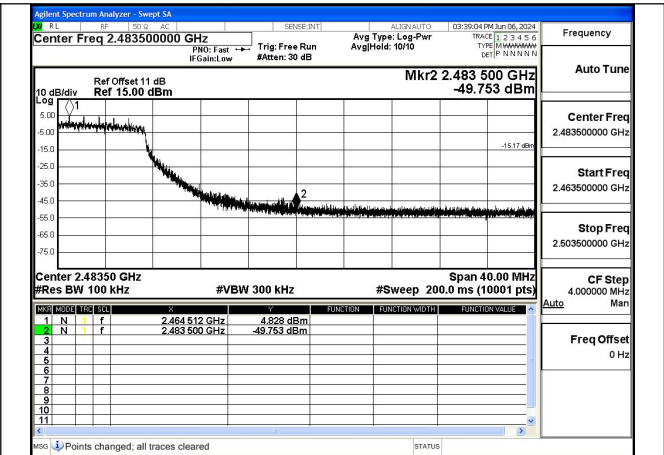
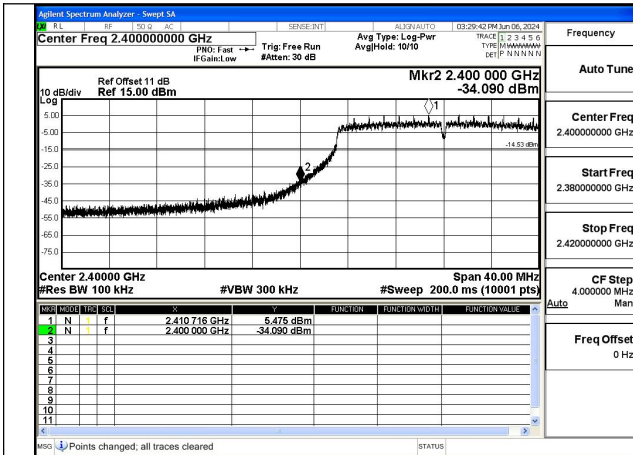


Mode:802.11g Frequency:2412MHz Ant:Chain1



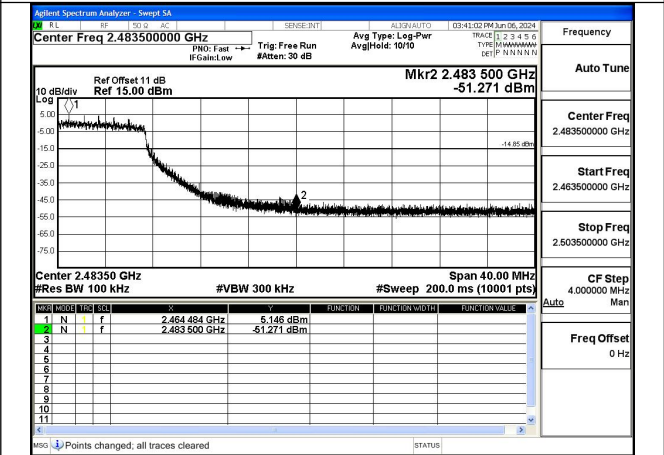
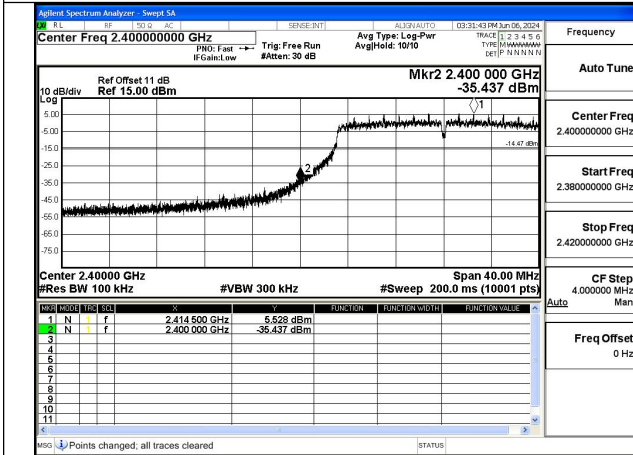
Mode:802.11g Frequency:2462MHz Ant:Chain1

Test Mode: 802.11n HT20



Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0

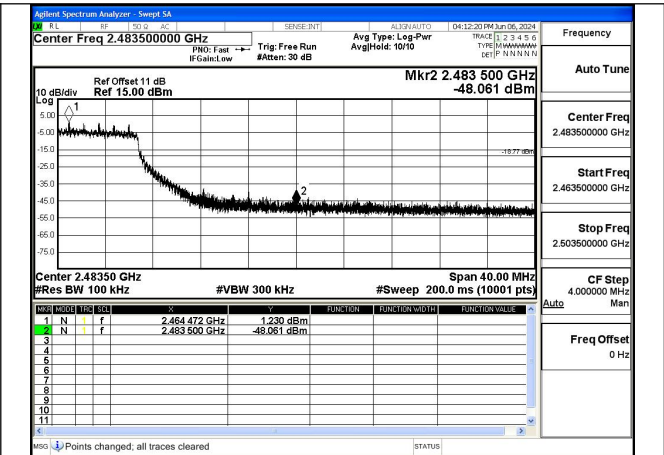
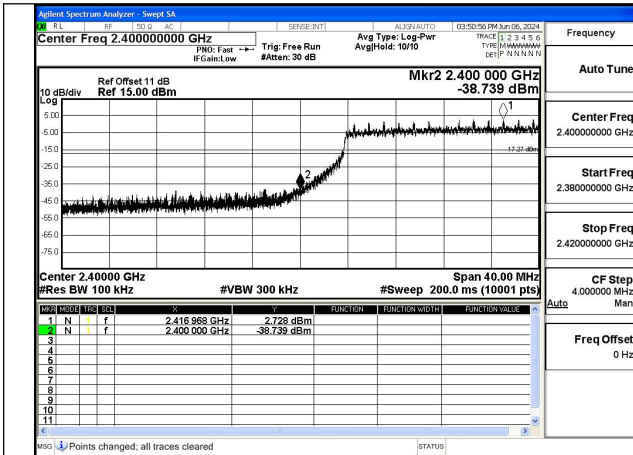
Mode:802.11n HT20 Frequency:2462MHz Ant:Chain0



Mode:802.11n HT20 Frequency:2412MHz Ant:Chain1

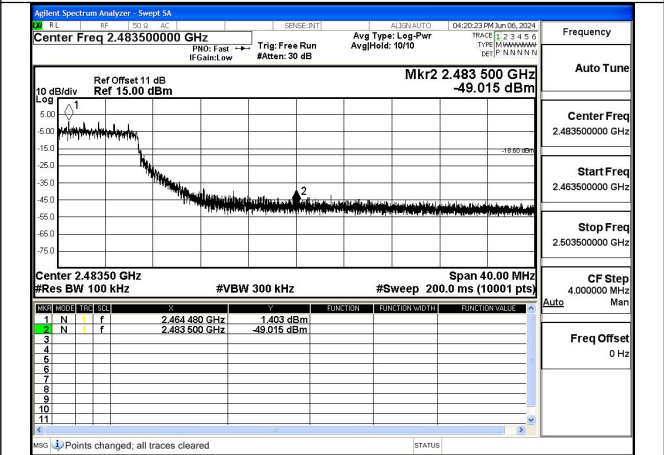
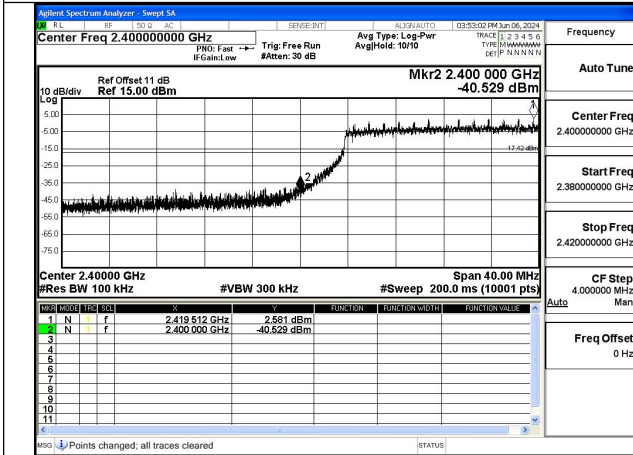
Mode:802.11n HT20 Frequency:2462MHz Ant:Chain1

Test Mode: 802.11n HT40



Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0

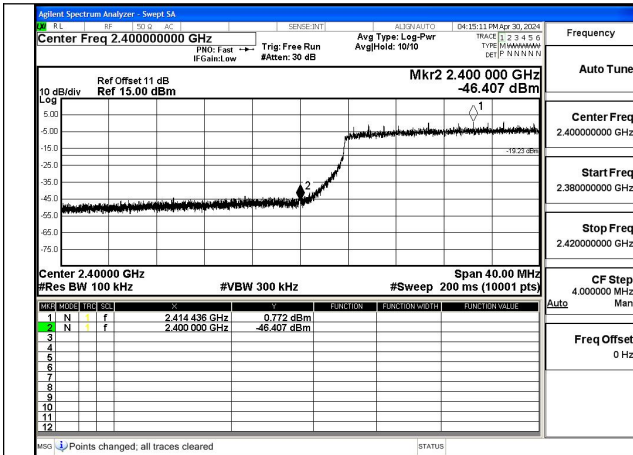
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain0



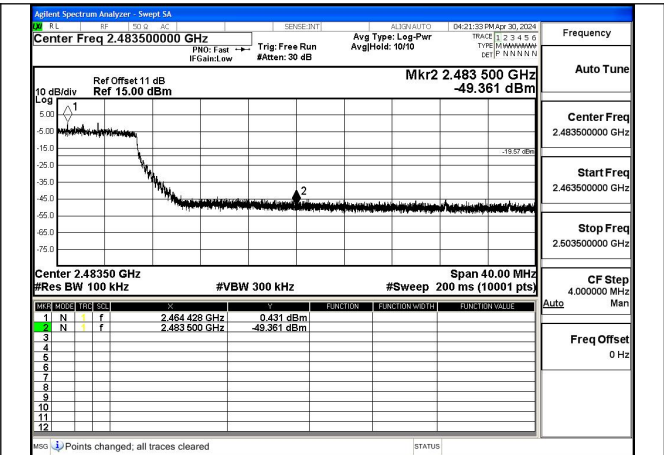
Mode:802.11n HT40 Frequency:2422MHz Ant:Chain1

Mode:802.11n HT40 Frequency:2452MHz Ant:Chain1

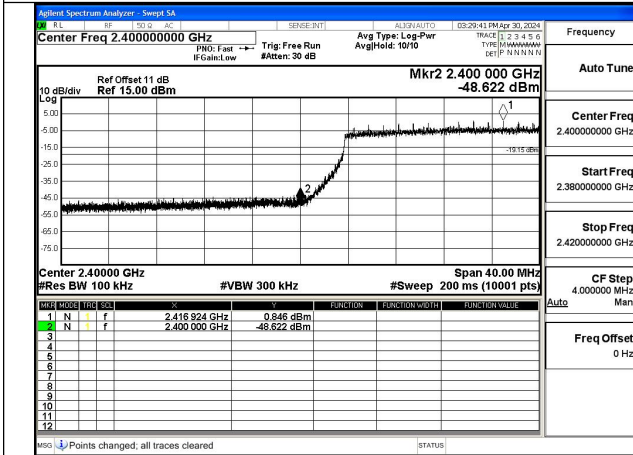
Test Mode: 802.11n HT40



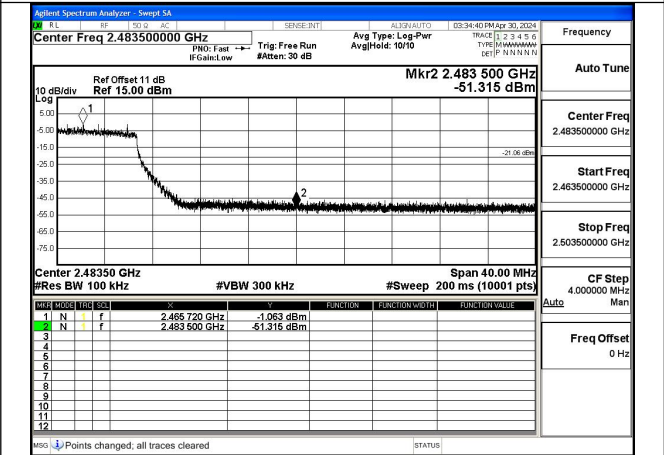
Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0



Mode:802.11n HT40 Frequency:2452MHz Ant:Chain0



Mode:802.11n HT40 Frequency:2422MHz Ant:Chain1



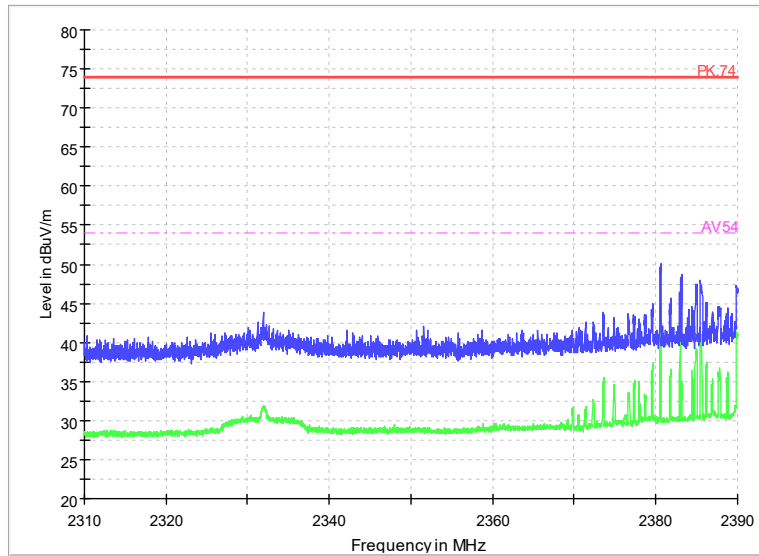
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain1

APPENDIX B – TEST DATA OF RADIATED EMISSION

Note: The worst channel results are reflected in the report.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan

Radiated Emission Band Edge

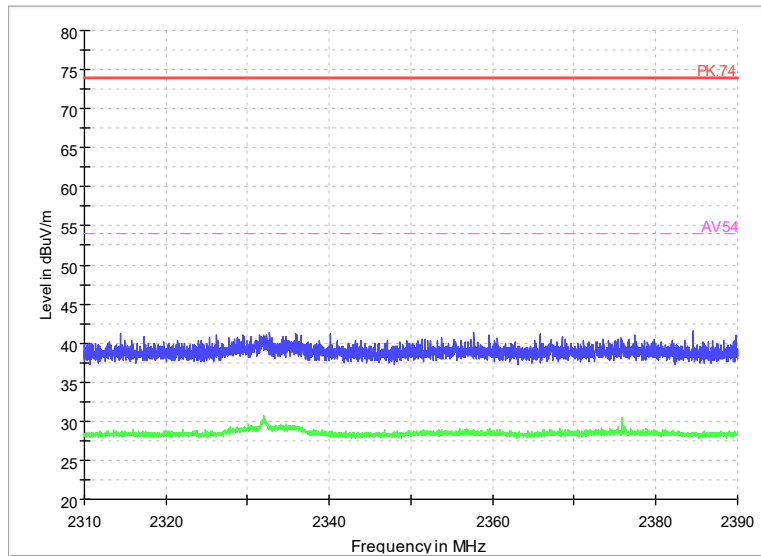


Radiated Emission Band Edge

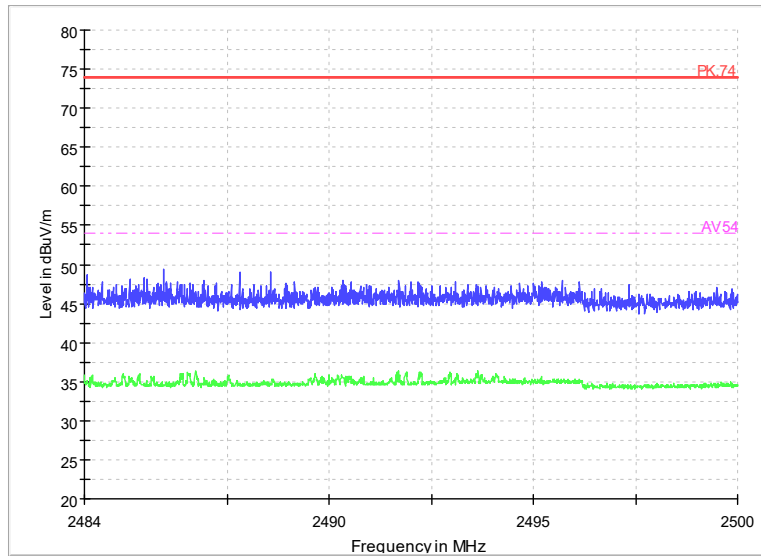
Channel No.:1

Test Mode: 802.11b

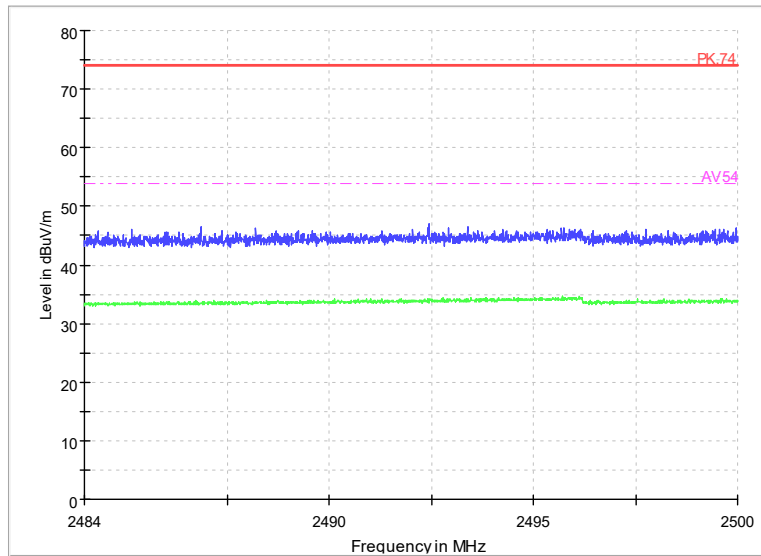
Polarization: V



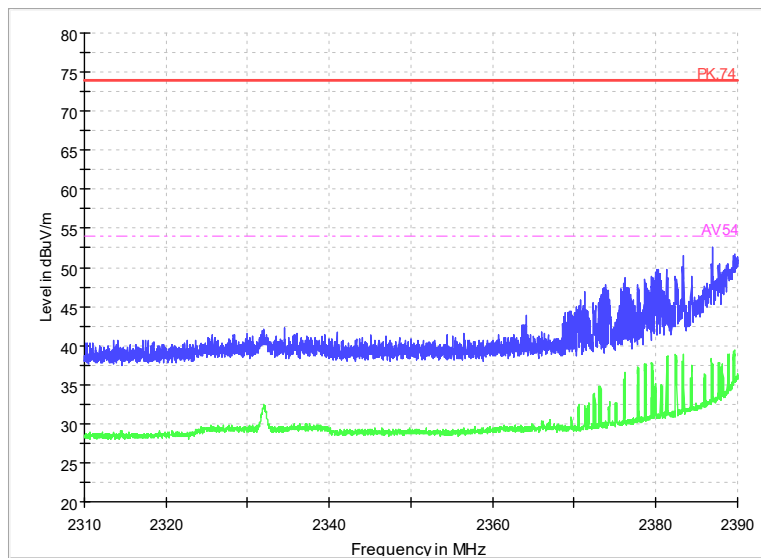
Radiated Emission Band Edge
 Channel No.:1
 Test Mode: 802.11b
 Polarization: H



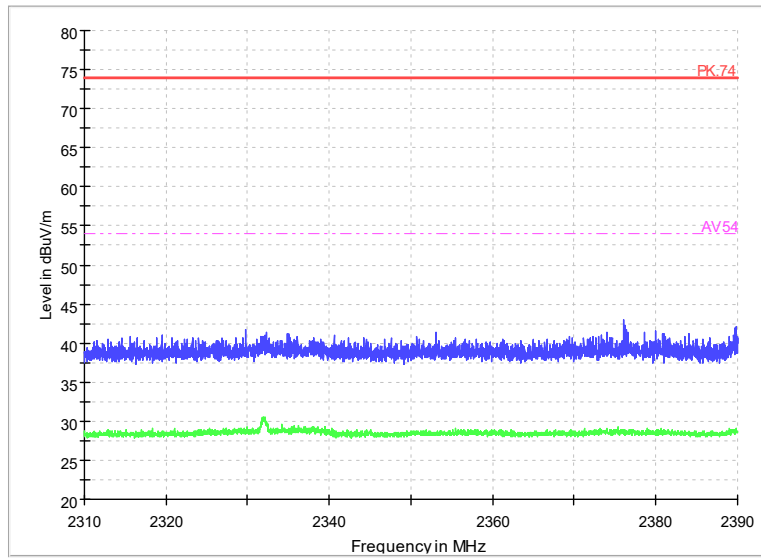
Radiated Emission Band Edge
 Channel No.:11
 Test Mode: 802.11b
 Polarization: V



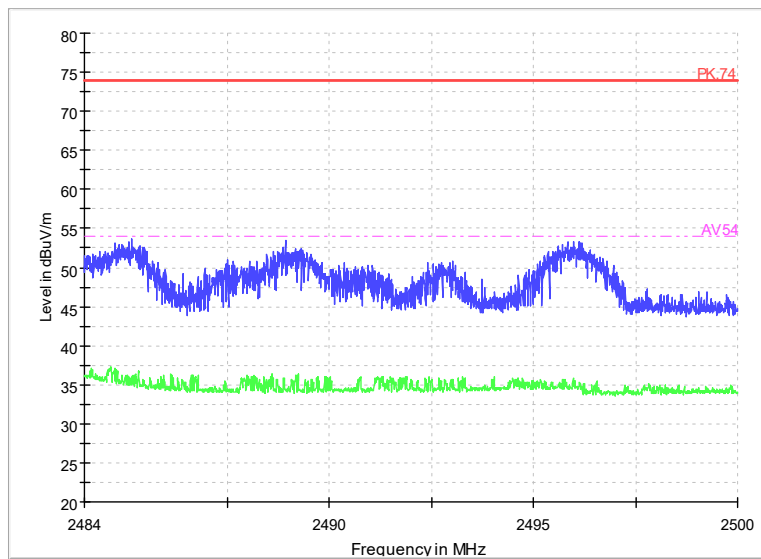
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization: H



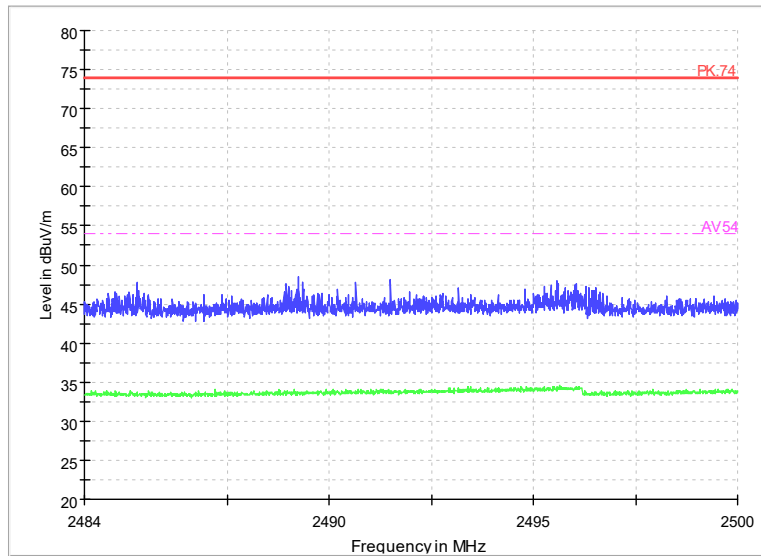
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization: V



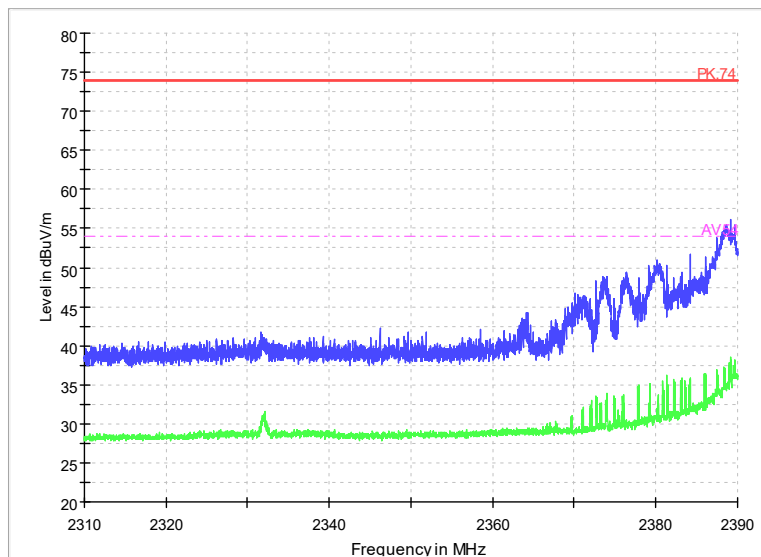
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization: H



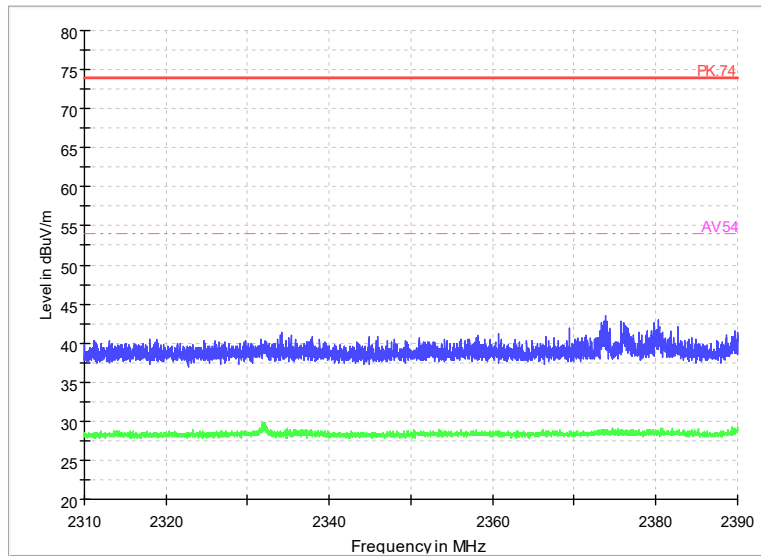
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: V



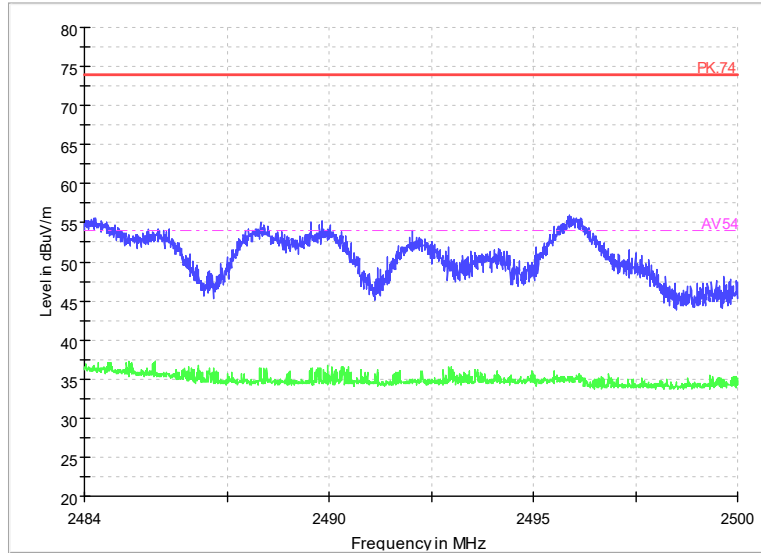
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: H



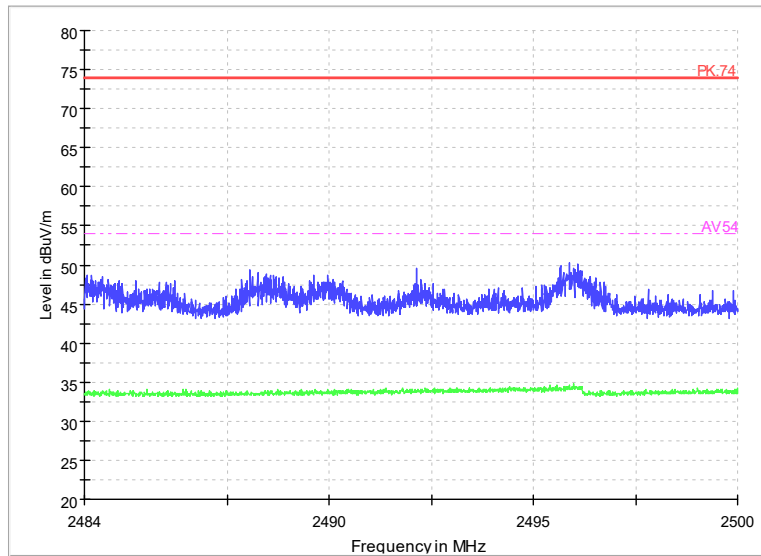
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n(HT20)
Polarization: V



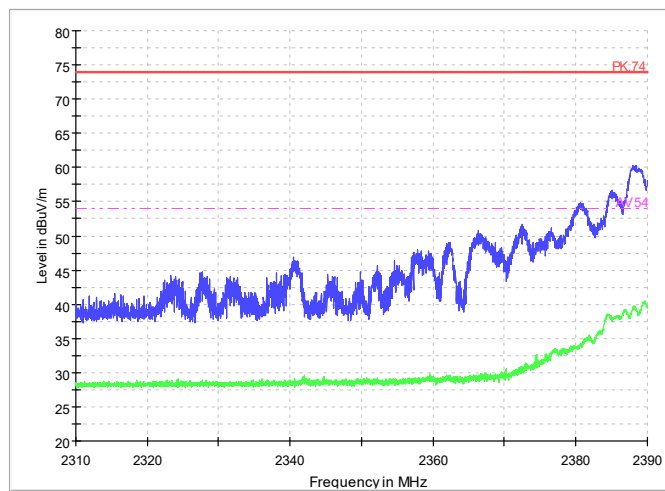
Radiated Emission Band Edge
 Channel No.:1
 Test Mode: 802.11n(HT20)
 Polarization: H



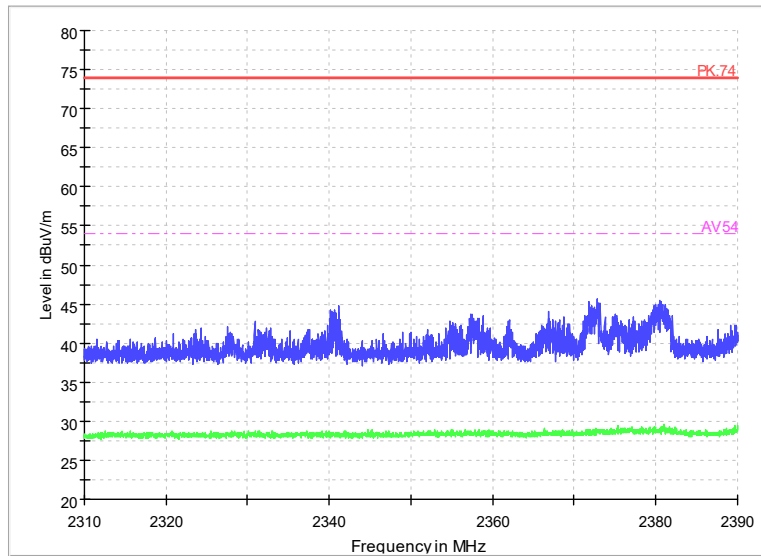
Radiated Emission Band Edge
 Channel No.:11
 Test Mode: 802.11n(HT20)
 Polarization: V



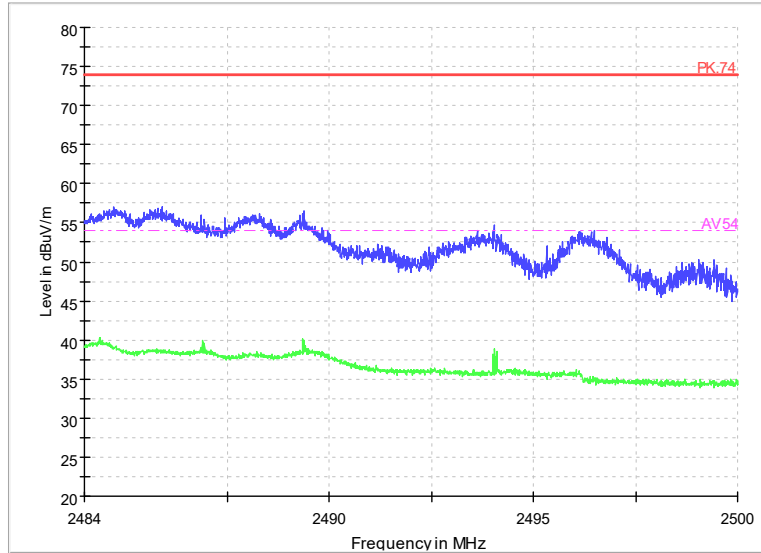
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n(HT20)
Polarization: H



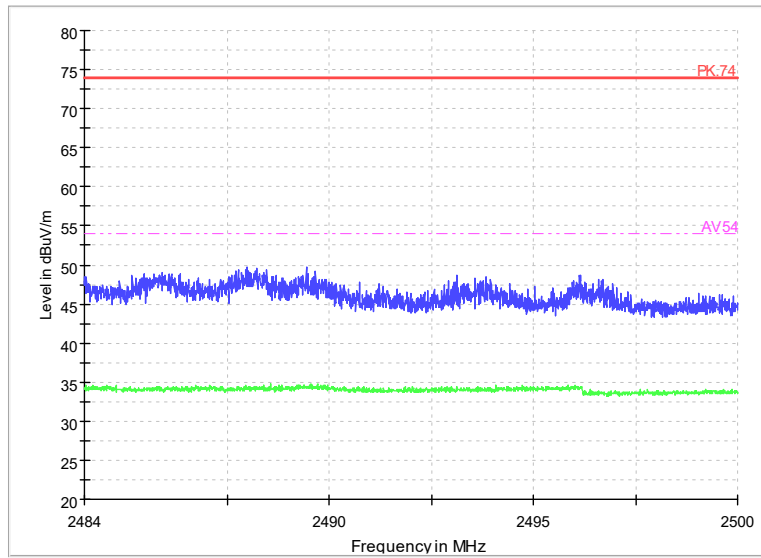
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n(HT40)
Polarization: V



Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n(HT40)
Polarization: H



Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n(HT40)
Polarization: V



Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n(HT40)
Polarization: H

Sample Calculations

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:

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

Sample calculation: $(18.35 \text{ dB}\mu\text{V/m}) = (38.25 \text{ dB}\mu\text{V}) + (-19.9 \text{ dB/m})$, the corresponding frequency is 34.6075MHz.

For 802.11b Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
34.6075	18.35	-19.9	38.25	Vertical	40	21.65
87.133	18.14	-20.2	38.34	Vertical	40	21.86
123.799	17.78	-20.5	38.28	Vertical	43.5	25.72
263.964	20.13	-17.3	37.43	Vertical	46	25.87
498.801	13.32	-11	24.32	Vertical	46	32.68
935.398	18.17	-3.3	21.47	Vertical	46	27.83

For 802.11g Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.522	23.36	-20.3	43.66	Vertical	40	16.64
90.14	21.4	-19.6	41	Vertical	43.5	22.1
99.161	20.25	-19.1	39.35	Vertical	43.5	23.25
215.755	11.75	-18.8	30.55	Vertical	43.5	31.75
333.222	19.33	-15.2	34.53	Vertical	46	26.67
933.5065	18.1	-3.3	21.4	Vertical	46	27.9

For 802.11n(HT20) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.425	21.98	-20.3	42.28	Vertical	40	18.02
90.14	21.24	-19.6	40.84	Vertical	43.5	22.26
125.1085	13.93	-20.7	34.63	Vertical	43.5	29.57
204.212	11.74	-19.1	30.84	Vertical	43.5	31.76
447.488	11.56	-12.1	23.66	Vertical	46	34.44
952.276	17.93	-3.2	21.13	Vertical	46	28.07

For 802.11b Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.231	20.8	-20.3	41.1	Vertical	40	19.2

90.14	21.38	-19.6	40.98	Vertical	43.5	22.12
138.252	19.86	-21.8	41.66	Vertical	43.5	23.64
215.852	11.74	-18.8	30.54	Vertical	43.5	31.76
331.864	19.09	-15.3	34.39	Vertical	46	26.91
946.747	18.24	-3.2	21.44	Vertical	46	27.76

For 802.11g Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
31.8915	23.4	-20.4	43.8	Vertical	40	16.6
87.133	18.69	-20.2	38.89	Vertical	40	21.31
132.238	19.93	-21.4	41.33	Vertical	43.5	23.57
207.51	11.62	-19	30.62	Vertical	43.5	31.88
331.9125	12.98	-15.3	28.28	Vertical	46	33.02
907.85	19.88	-3.6	23.48	Vertical	46	26.12

For 802.11n(HT20) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
31.8915	30.37	-20.40	50.77	Vertical	40	9.63
84.126	32.14	-20.90	53.04	Vertical	40	7.86
138.252	27.14	-21.80	48.94	Vertical	43.5	16.36
199.9925	21.31	-19.30	40.61	Vertical	43.5	22.19
503.9905	19.49	-10.90	30.39	Vertical	46	26.51
932.585	17.97	-3.30	21.27	Vertical	46	28.03

For 802.11b Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
31.843	23.43	-20.4	43.83	Vertical	40	16.57
90.14	21.3	-19.6	40.9	Vertical	43.5	22.2
132.8685	15.44	-21.5	36.94	Vertical	43.5	28.06
281.812	12.6	-16.8	29.4	Vertical	46	33.4
492.981	16.51	-11.2	27.71	Vertical	46	29.49
913.864	20.44	-3.5	23.94	Vertical	46	25.56

For 802.11g Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.3765	21.18	-20.3	41.48	Vertical	40	18.82
90.14	21.32	-19.6	40.92	Vertical	43.5	22.18
99.161	20.18	-19.1	39.28	Vertical	43.5	23.32
212.069	11.33	-18.9	30.23	Vertical	43.5	32.17

492.981	16.66	-11.2	27.86	Vertical	46	29.34
907.8015	19.97	-3.6	23.57	Vertical	46	26.03

For 802.11n(HT20) Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
34.7045	19.84	-19.9	39.74	Vertical	40	20.16
90.14	21.3	-19.6	40.9	Vertical	43.5	22.2
132.238	20.01	-21.4	41.41	Vertical	43.5	23.49
212.166	11.39	-18.9	30.29	Vertical	43.5	32.11
492.981	16.58	-11.2	27.78	Vertical	46	29.42
907.85	19.91	-3.6	23.51	Vertical	46	26.09

For 802.11n(HT40) Channel No.:3

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
39.797	18.93	-19	37.93	Vertical	40	21.07
90.14	21.3	-19.6	40.9	Vertical	43.5	22.2
99.161	20.17	-19.1	39.27	Vertical	43.5	23.33
212.069	11.21	-18.9	30.11	Vertical	43.5	32.29
503.9905	17.25	-10.9	28.15	Vertical	46	28.75
943.9825	18.2	-3.3	21.5	Vertical	46	27.8

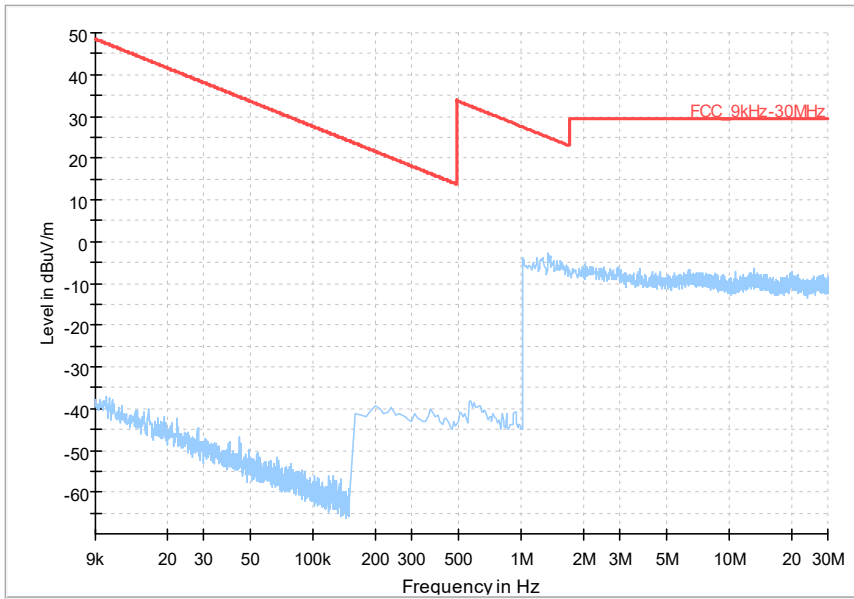
For 802.11n(HT40) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
32.0855	18.57	-20.3	38.87	Vertical	40	21.43
87.133	18.14	-20.2	38.34	Vertical	40	21.86
99.161	20.12	-19.1	39.22	Vertical	43.5	23.38
207.704	14.36	-19	33.36	Vertical	43.5	29.14
522.6145	13.49	-10.5	23.99	Vertical	46	32.51
913.8155	20.66	-3.5	24.16	Vertical	46	25.34

For 802.11n(HT40) Channel No.:9

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
31.649	19.3	-20.4	39.7	Vertical	40	20.7
87.133	18.14	-20.2	38.34	Vertical	40	21.86
123.799	17.79	-20.5	38.29	Vertical	43.5	25.72
263.964	19.64	-17.3	36.94	Vertical	46	26.36
455.9755	15.57	-11.9	27.47	Vertical	46	30.43
949.5115	18.13	-3.2	21.33	Vertical	46	27.87

Full Spectrum



Frequency Range: 9kHz -30MHz

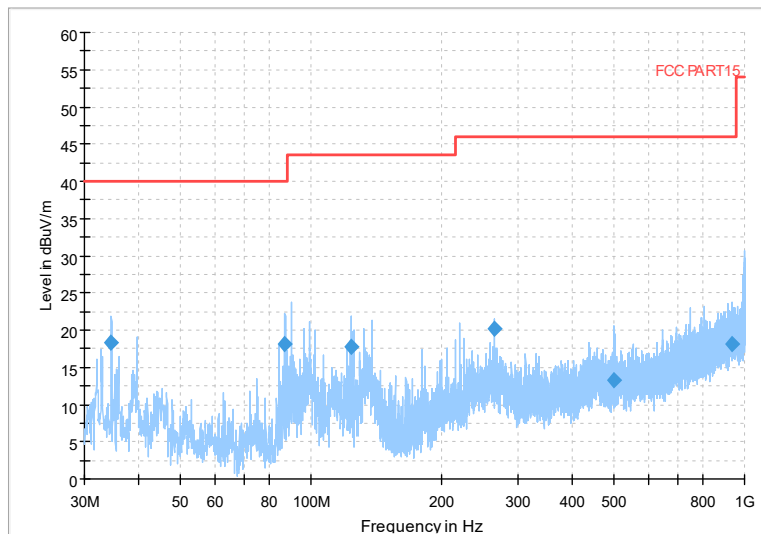
Detector: QP mode

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.

Carrier frequency (MHz): 2412

Channel No.:1

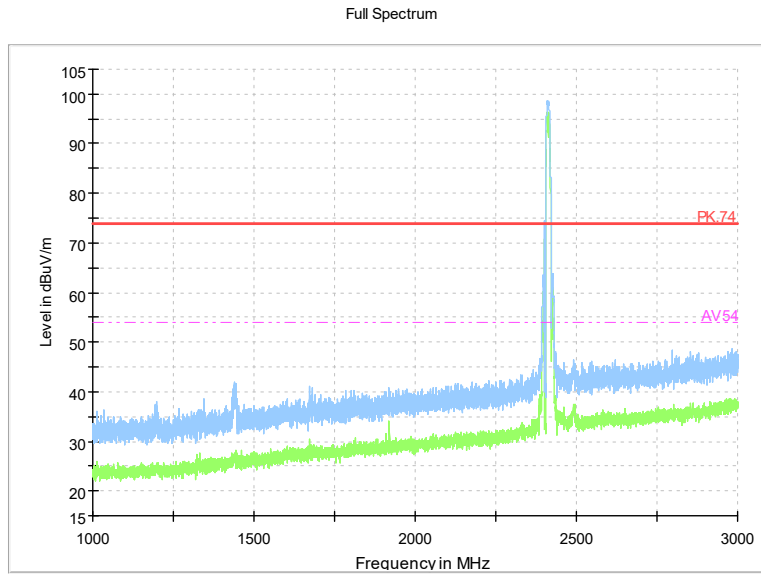
Full Spectrum



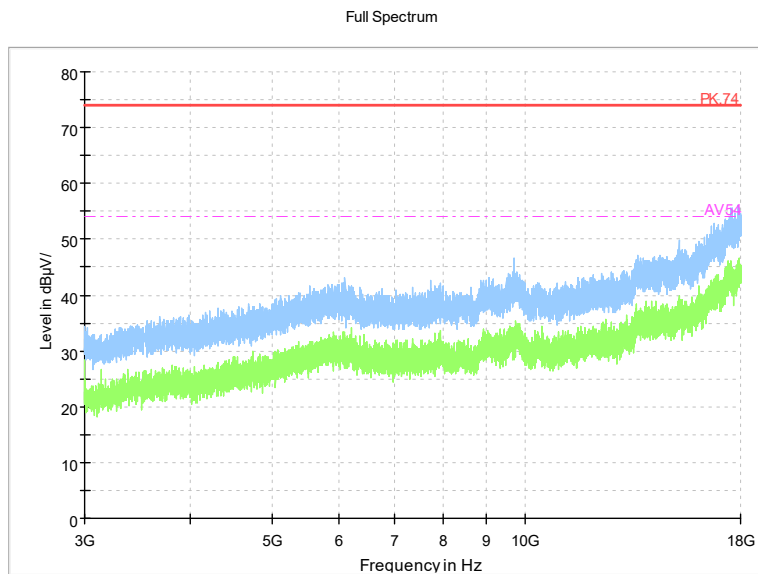
Frequency Range 30MHz -1GHz

Detector: QP mode

Modulation type: 802.11b

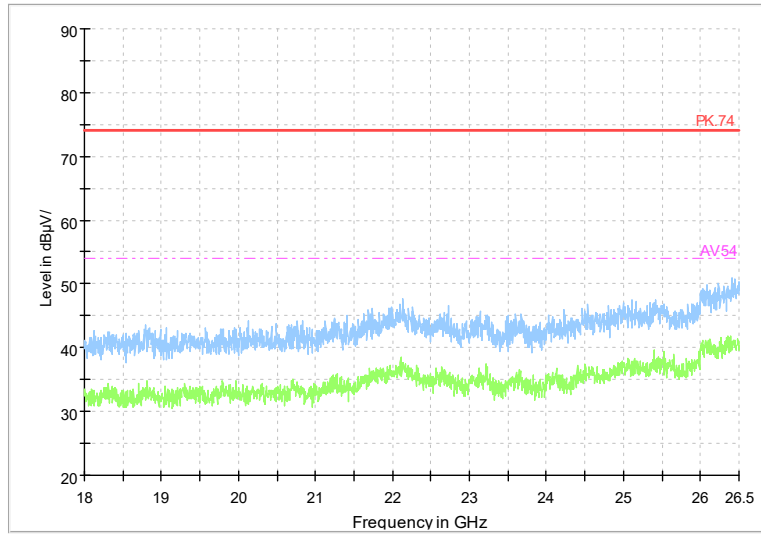


Frequency Range: 1GHz -3GHz
Detector:QP mode
Modulation type: 802.11b



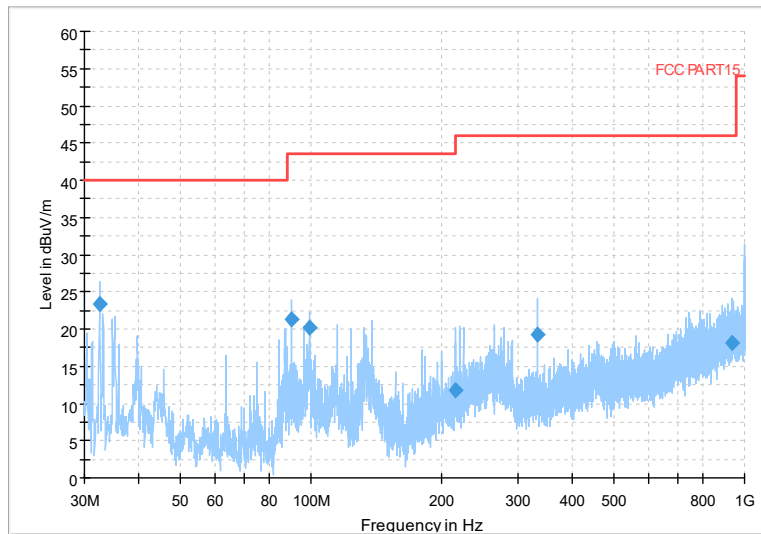
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



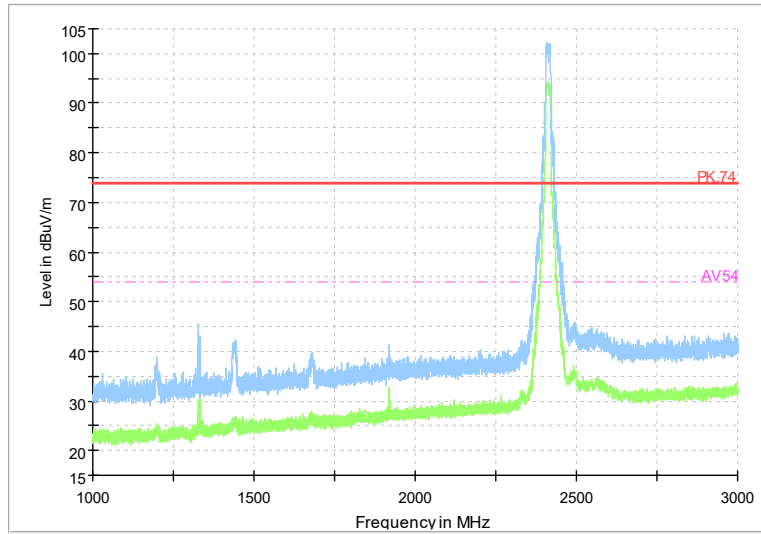
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



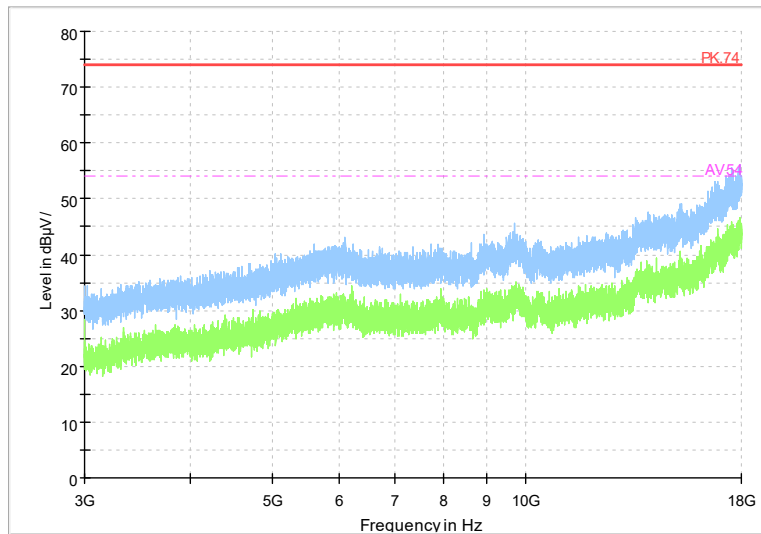
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

Full Spectrum



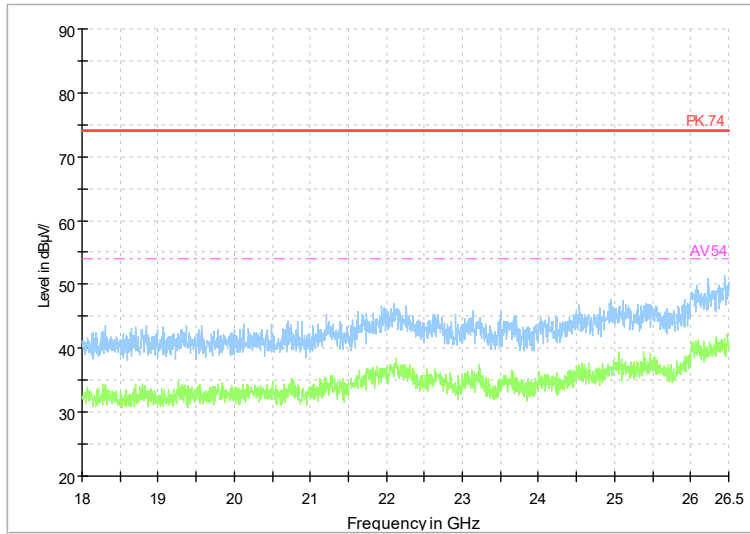
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



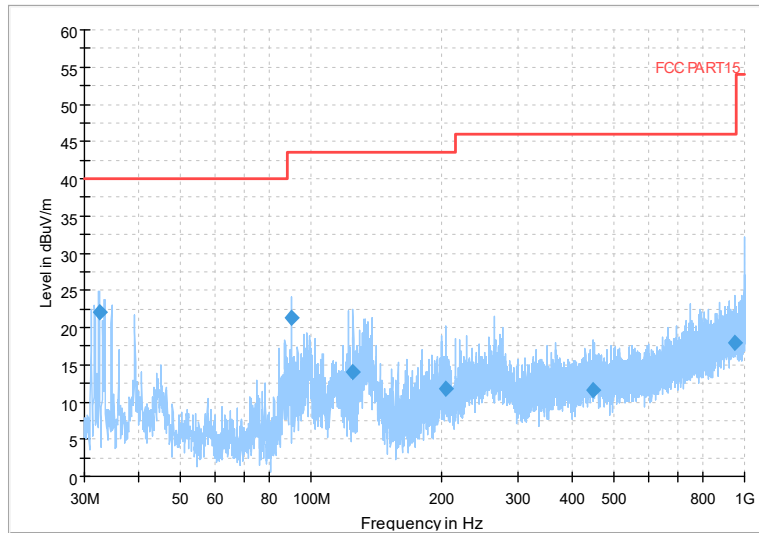
Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



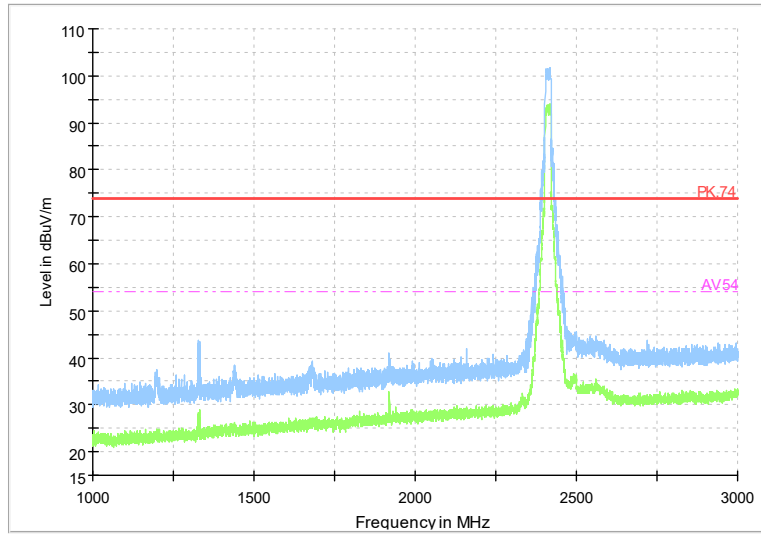
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



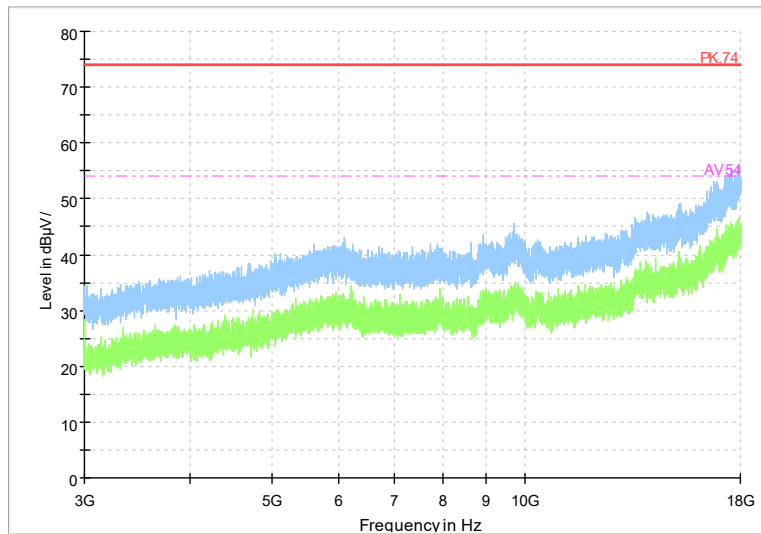
Frequency Range: 30MHz -1GHz
Detector:QP mode
Modulation type: 802.11n(HT20)

Full Spectrum



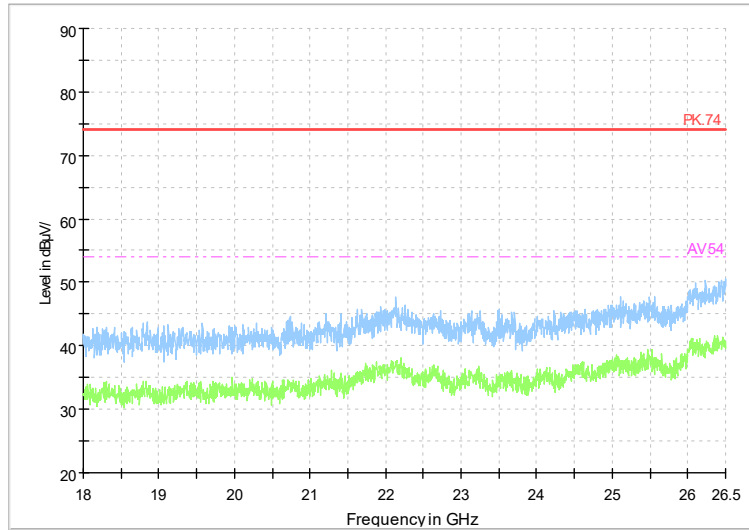
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

Full Spectrum



Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

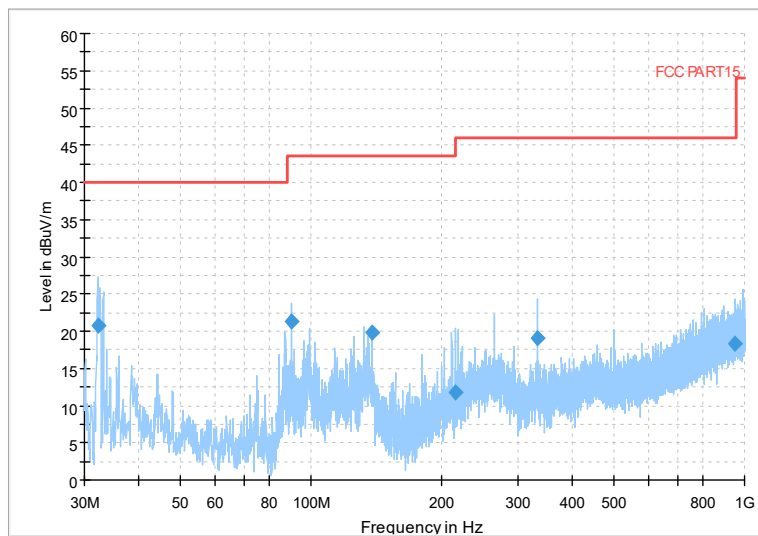
Full Spectrum



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

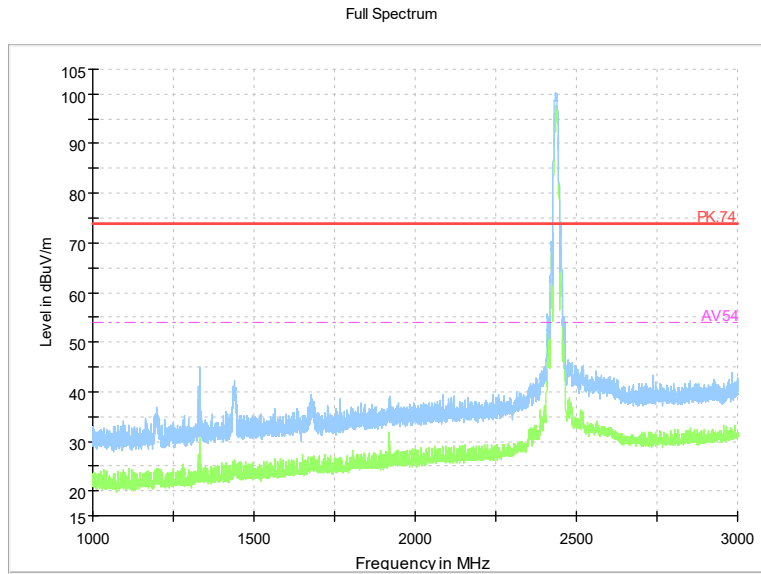
Carrier frequency (MHz): 2437
Channel No.:6

Full Spectrum

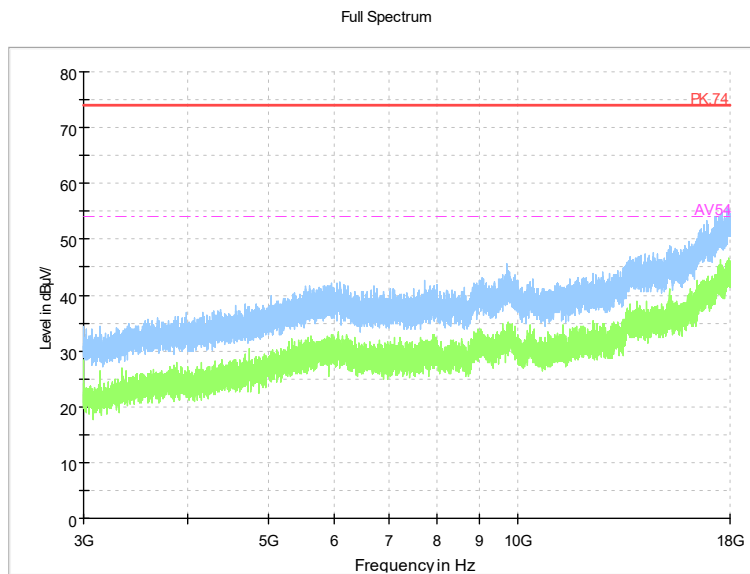


Frequency Range: 30MHz -1GHz
Detector:QP mode

Modulation type: 802.11b

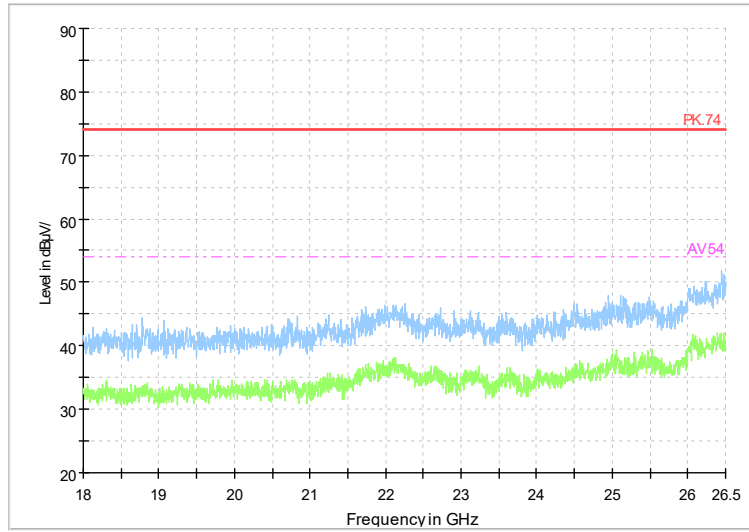


Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



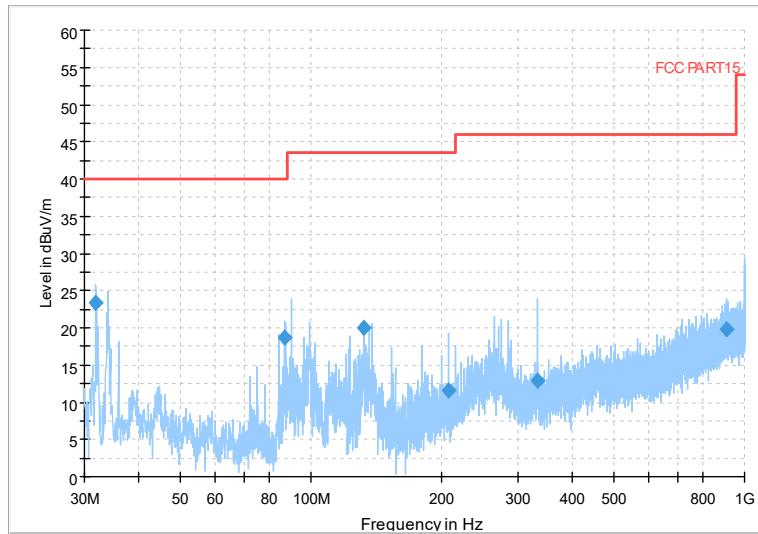
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



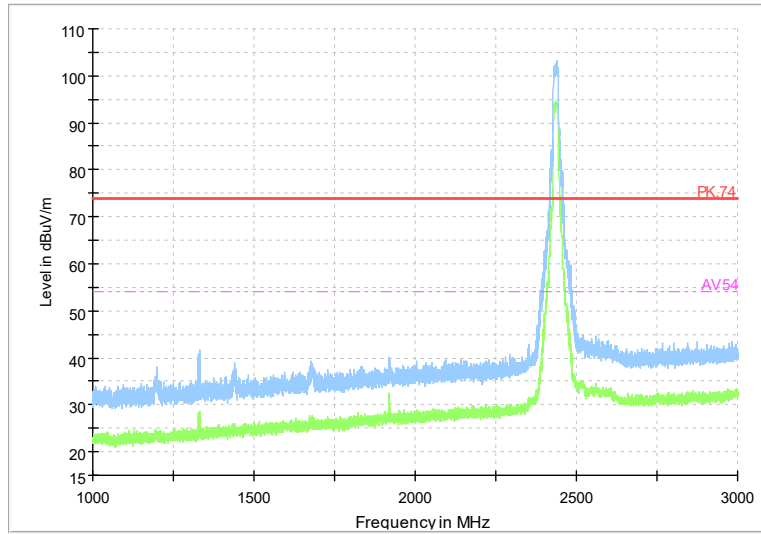
Frequency Range: 18GHz -26GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum



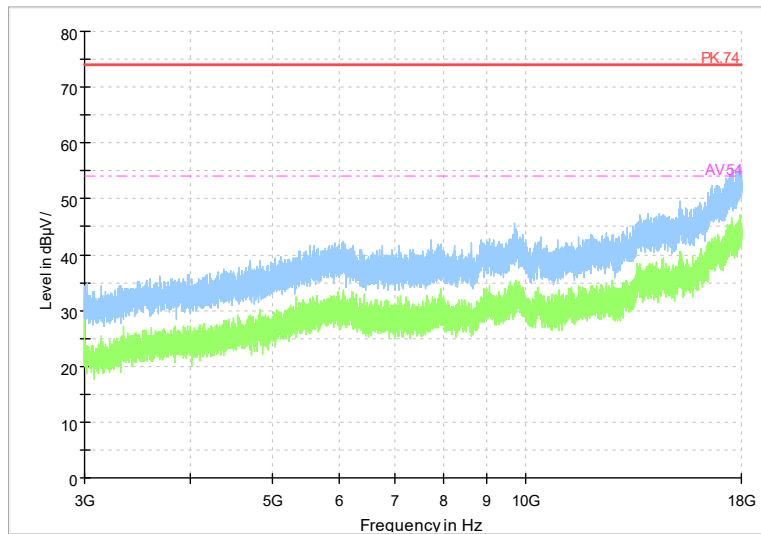
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Modulation type: 802.11g

Full Spectrum



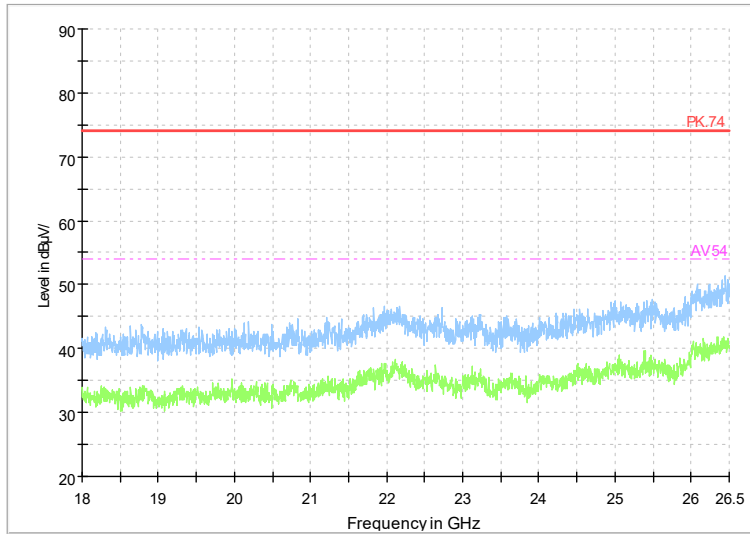
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



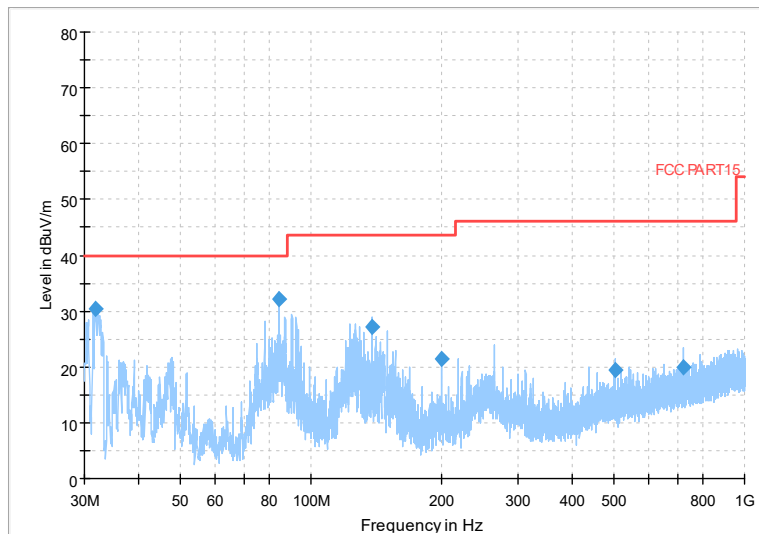
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



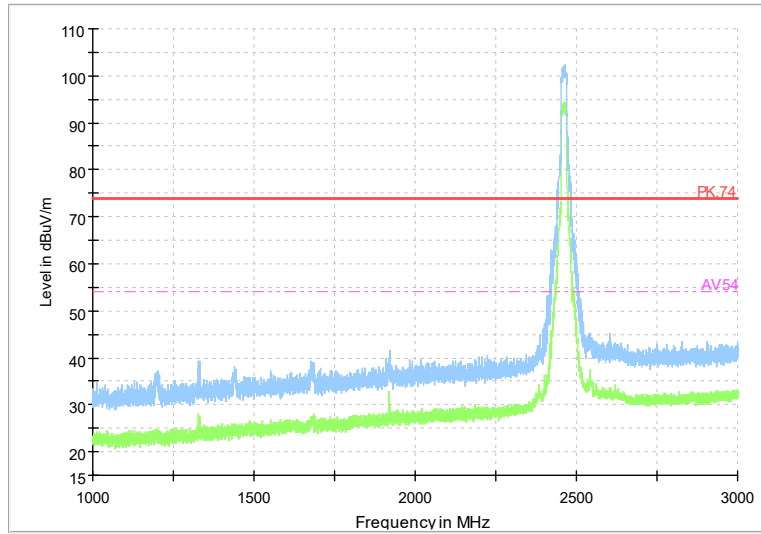
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



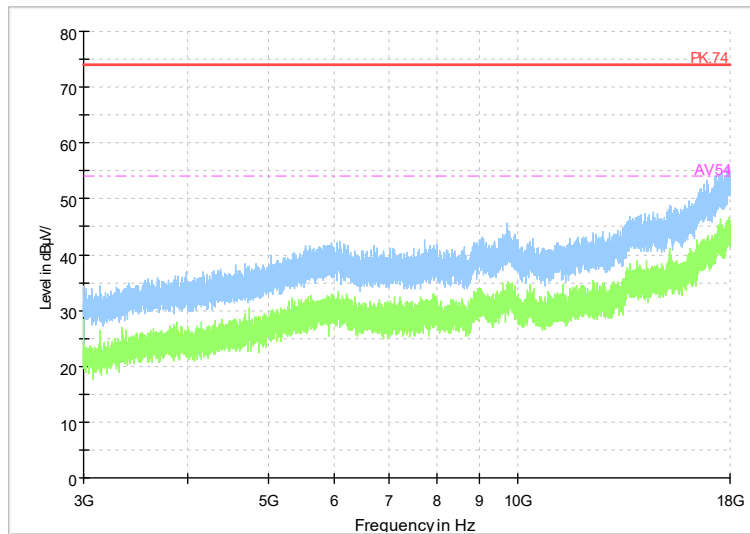
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11n(HT20)

Full Spectrum



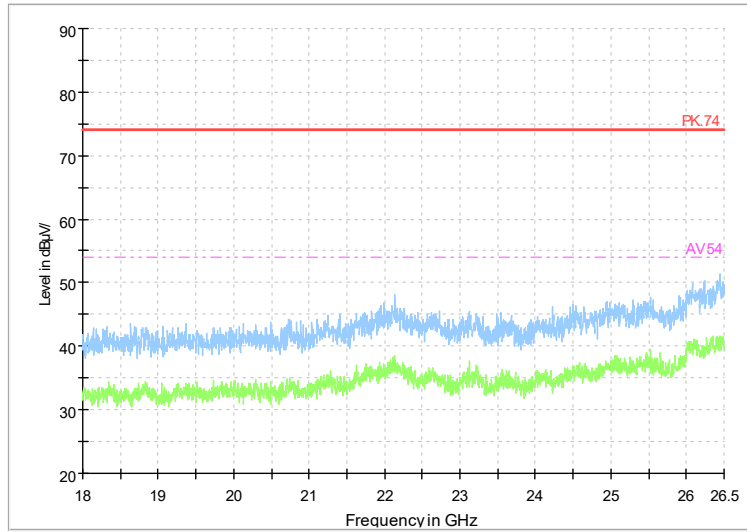
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

Full Spectrum



Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

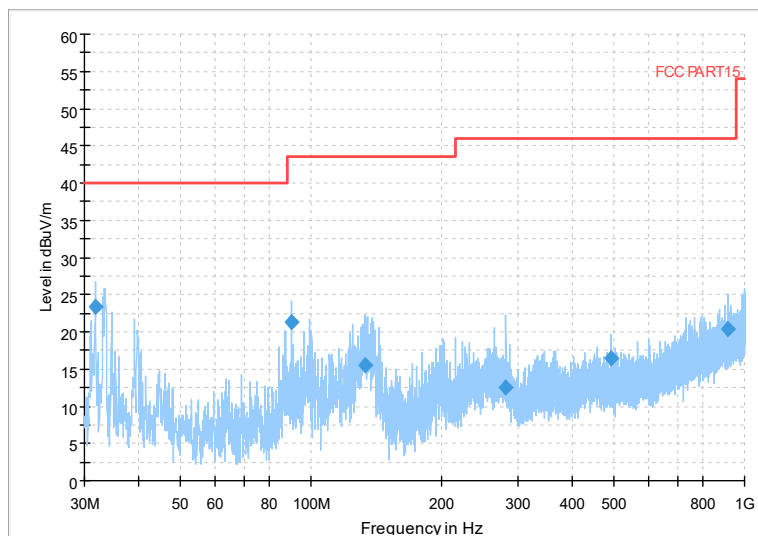
Full Spectrum



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

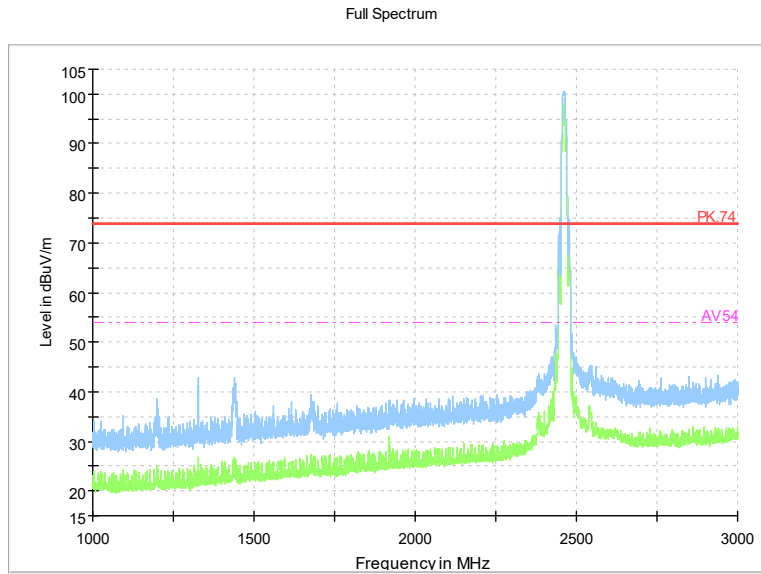
Carrier frequency (MHz): 2462
Channel No.:11

Full Spectrum

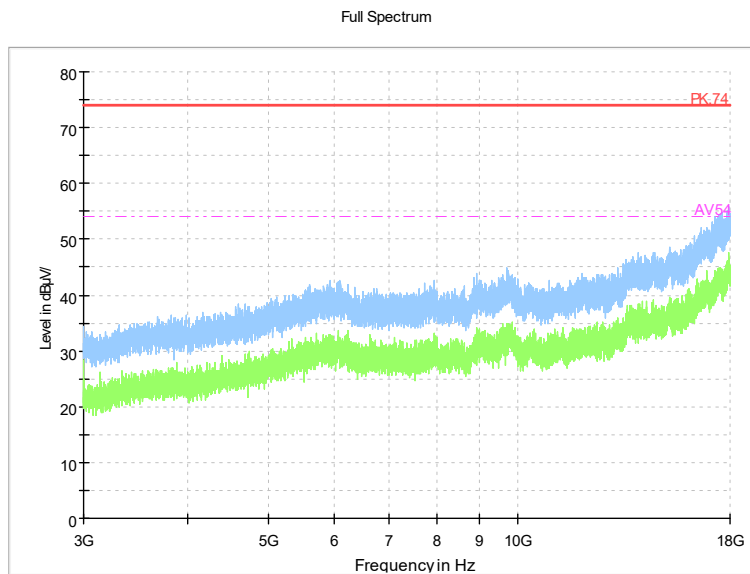


Frequency Range: 30MHz -1GHz
Detector: QP mode

Modulation type: 802.11b

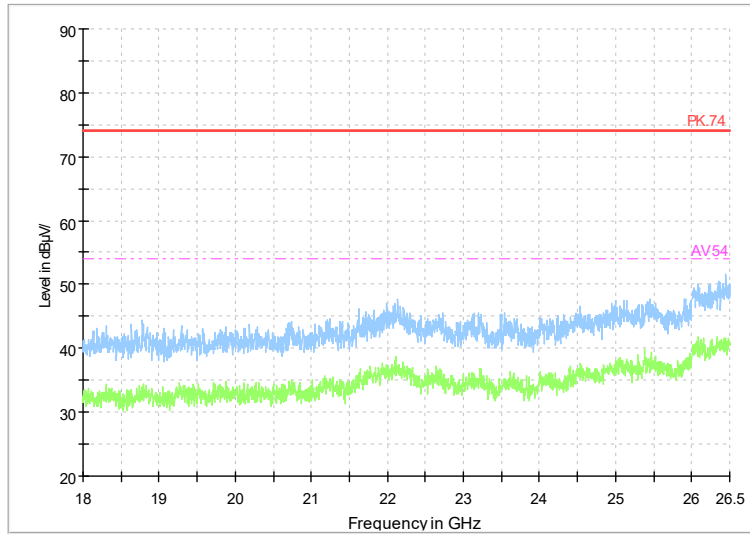


Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



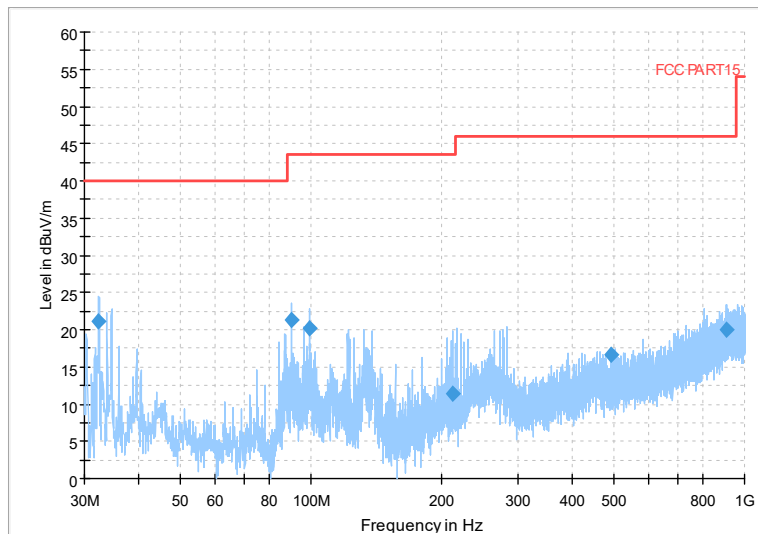
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



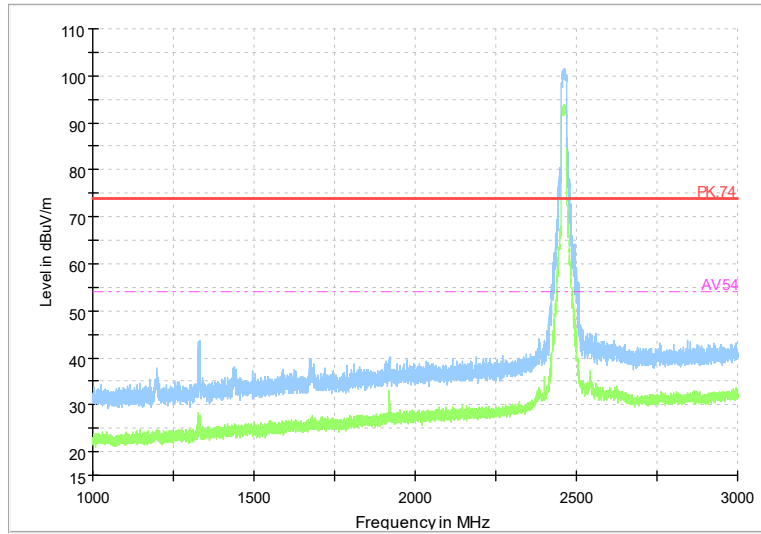
Frequency Range: 18GHz -26GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum



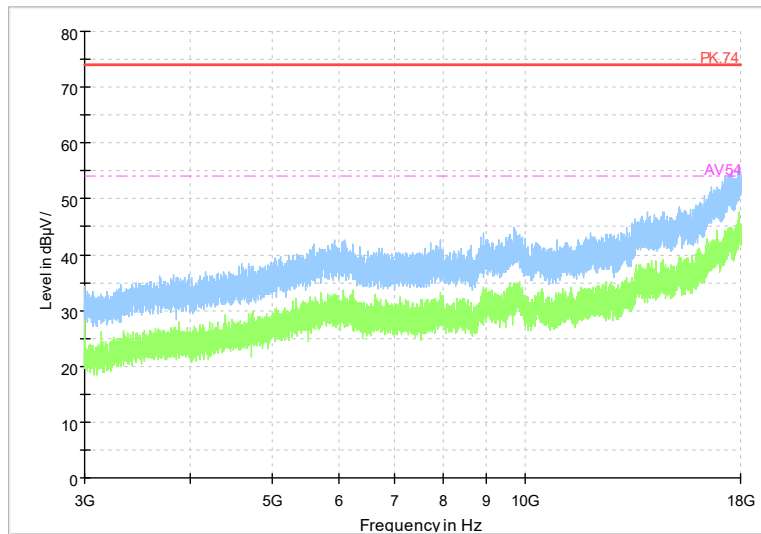
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Modulation type: 802.11g

Full Spectrum



Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



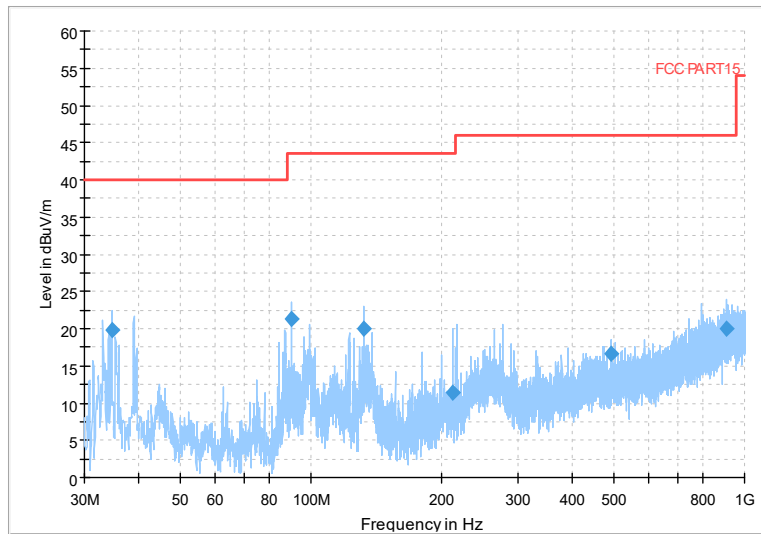
Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



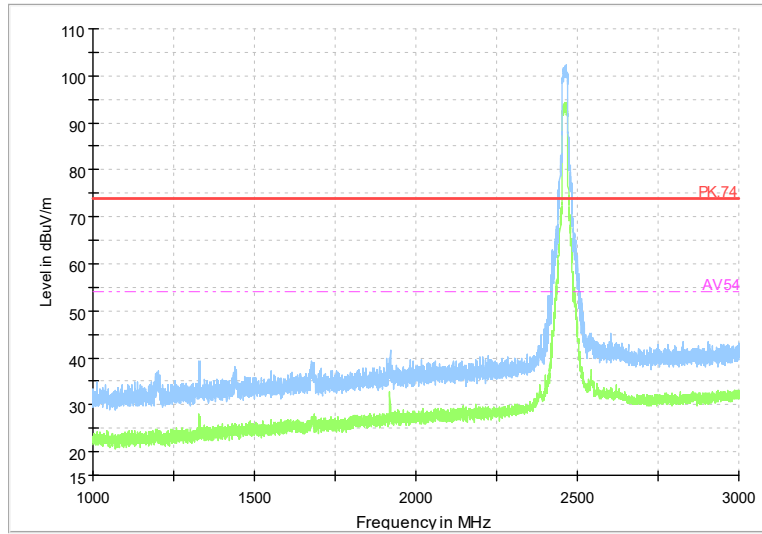
Frequency Range: 18GHz -26GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



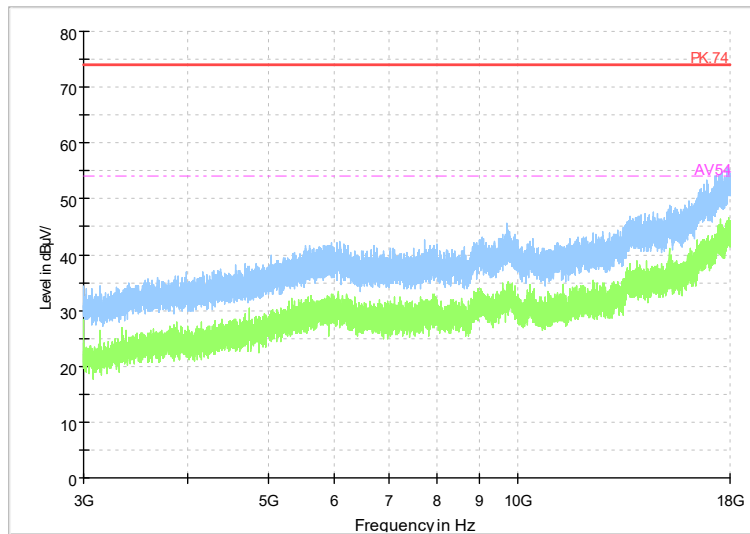
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Modulation type: 802.11n(HT20)

Full Spectrum



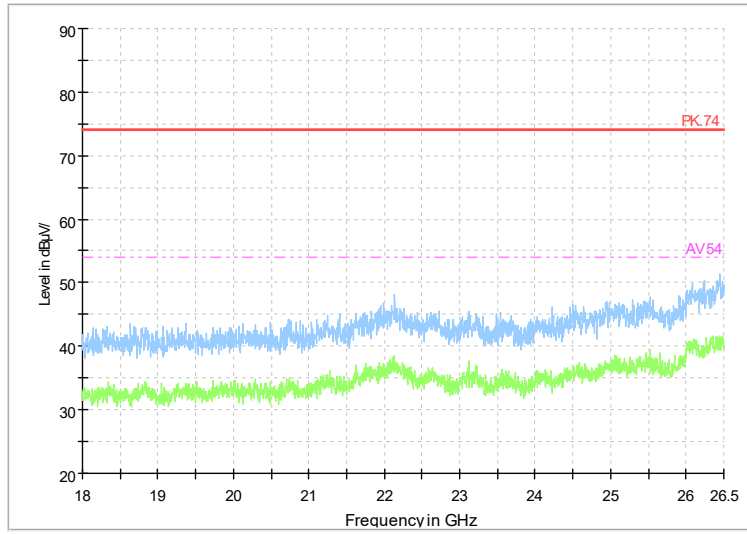
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Full Spectrum



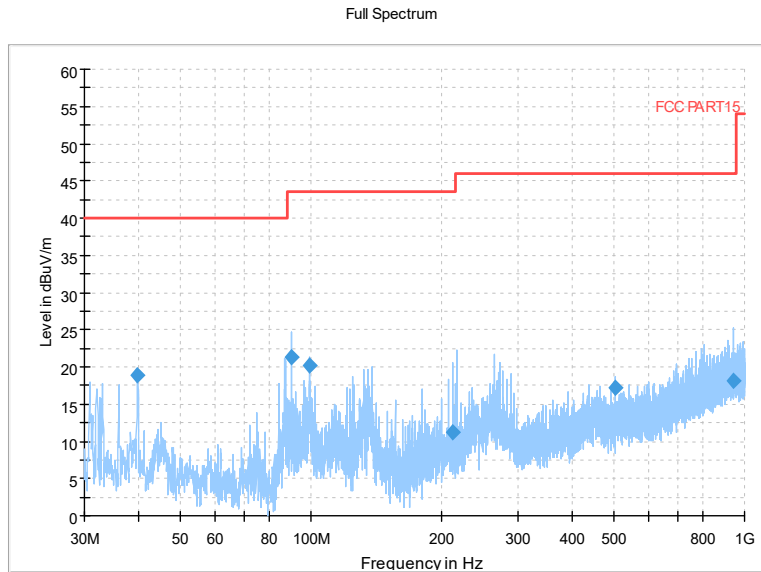
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Full Spectrum

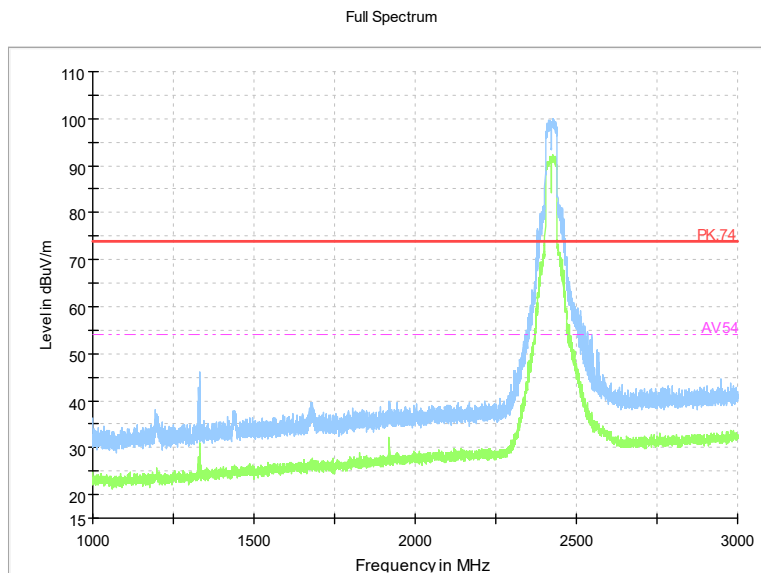


Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 2422
Channel No.:3

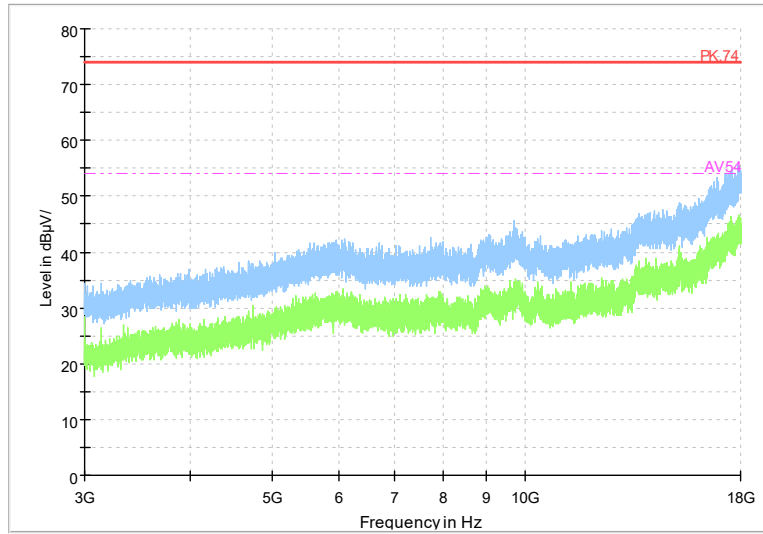


Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11n(HT40)



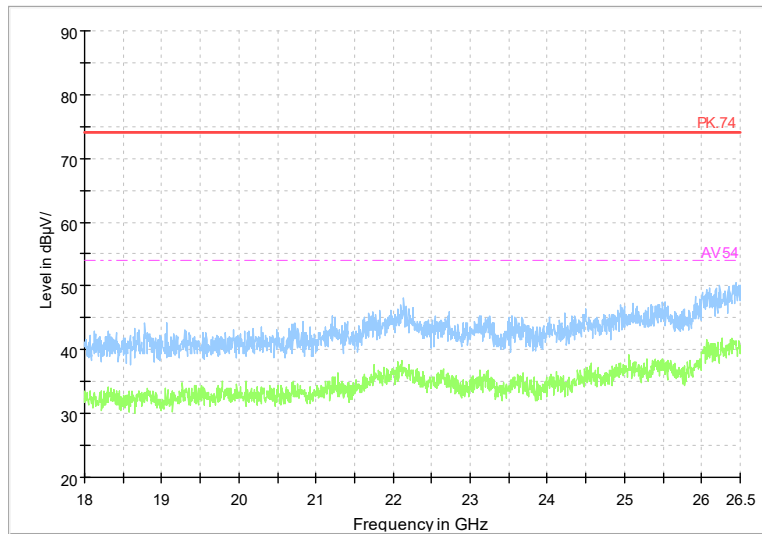
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

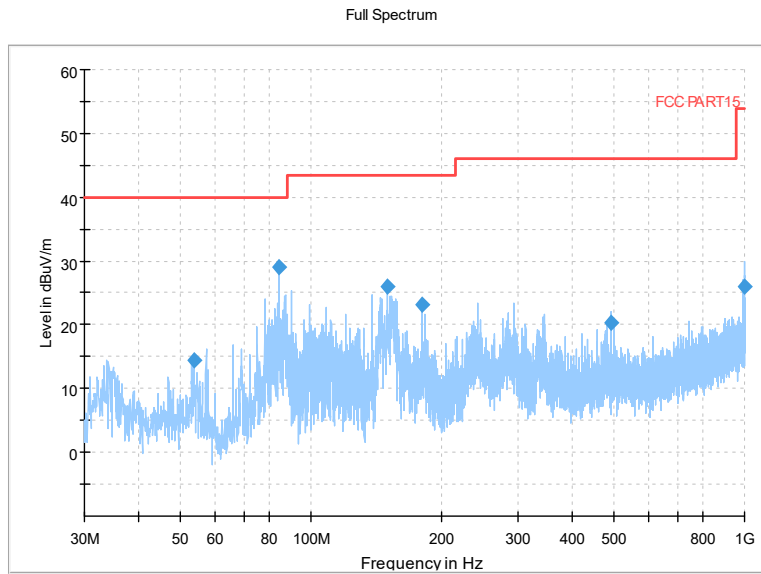
Full Spectrum



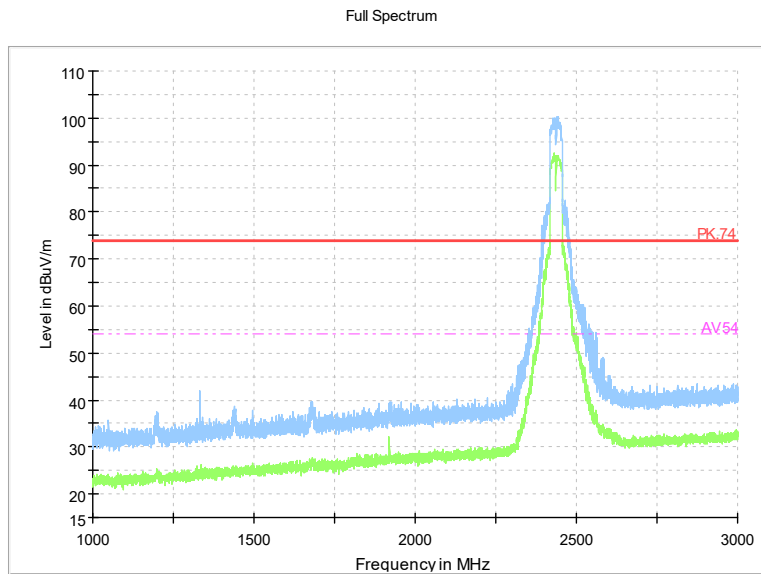
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Carrier frequency (MHz): 2437

Channel No.:6

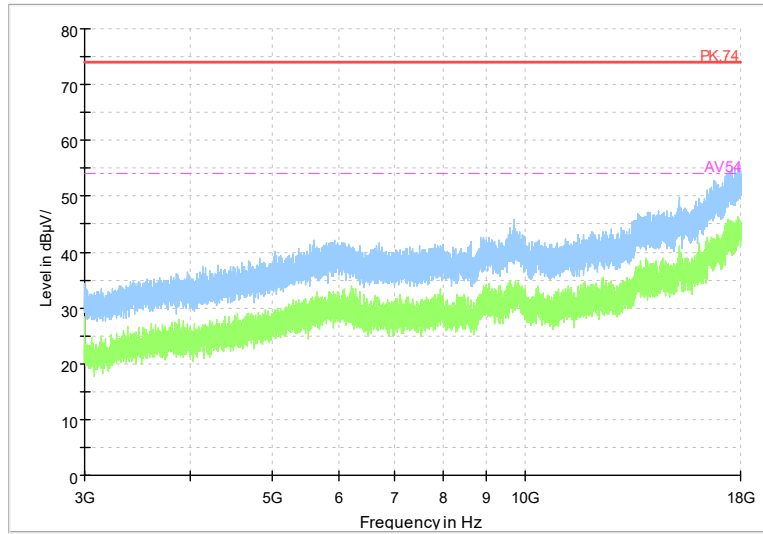


Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11n(HT40)



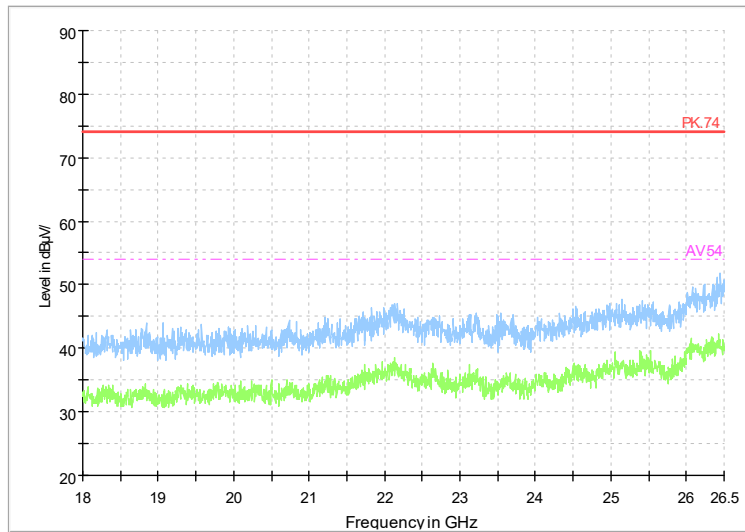
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Carrier frequency (MHz): 2452

The State Radio_monitoring_centerTesting Center (SRTC)

Tel: 86-10-57996183

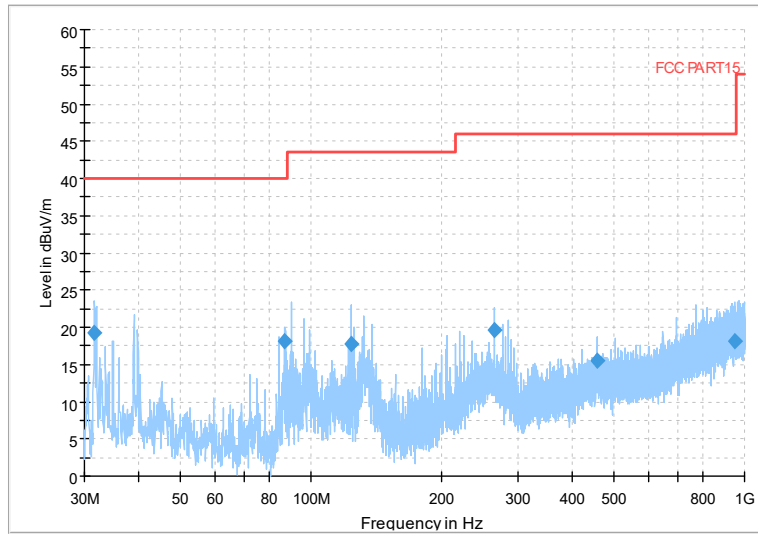
Fax:86-10-57996388

Page number:86 of 88

V3.0.0

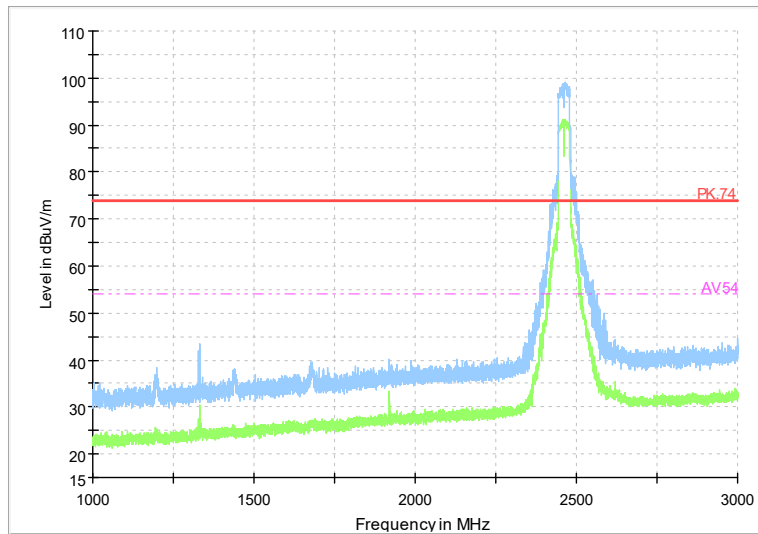
Channel No.:9

Full Spectrum



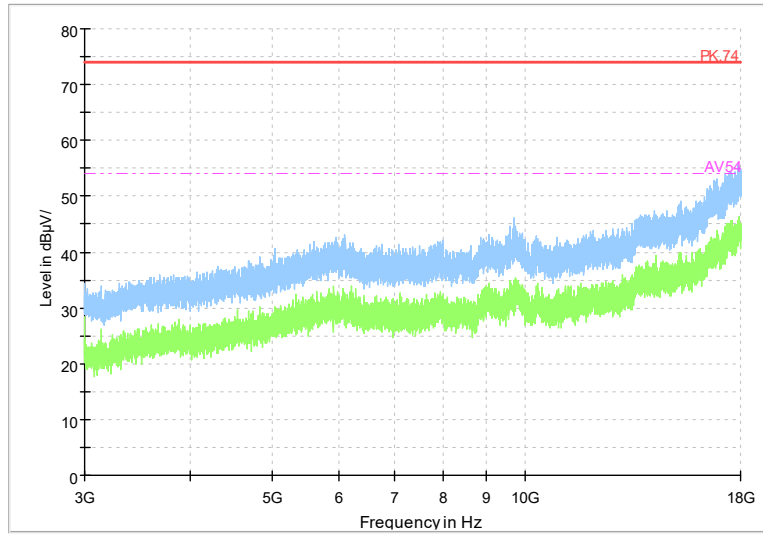
Frequency Range: 30MHz -1GHz
 Detector:QP mode
 Modulation type: 802.11n(HT40)

Full Spectrum



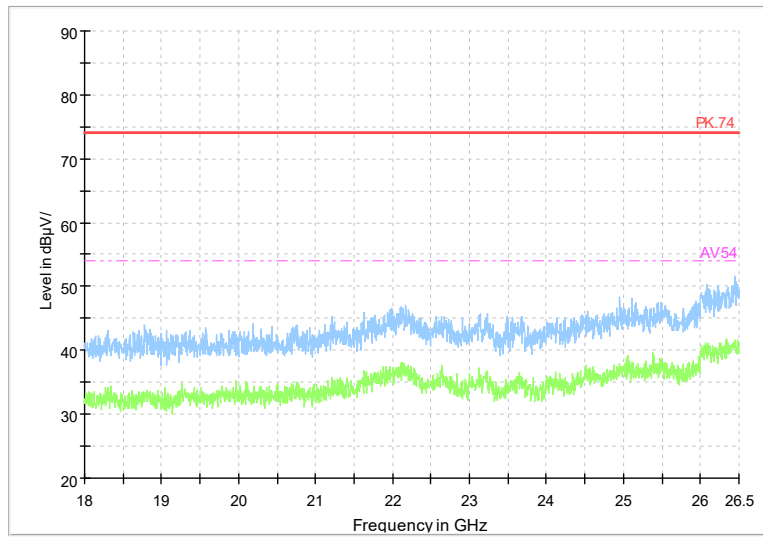
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

---End of Test Report---