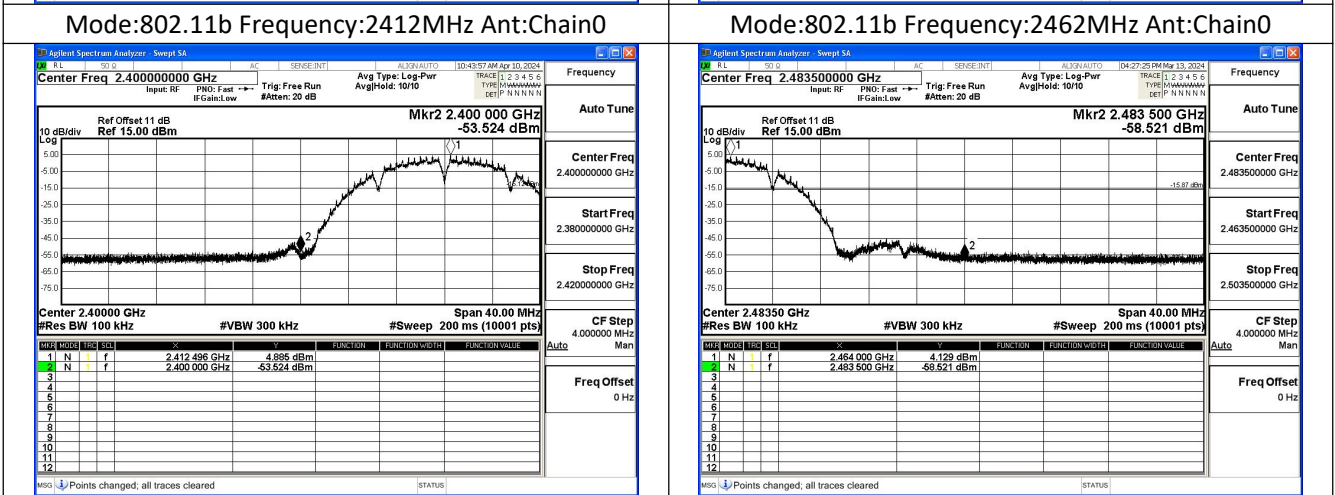
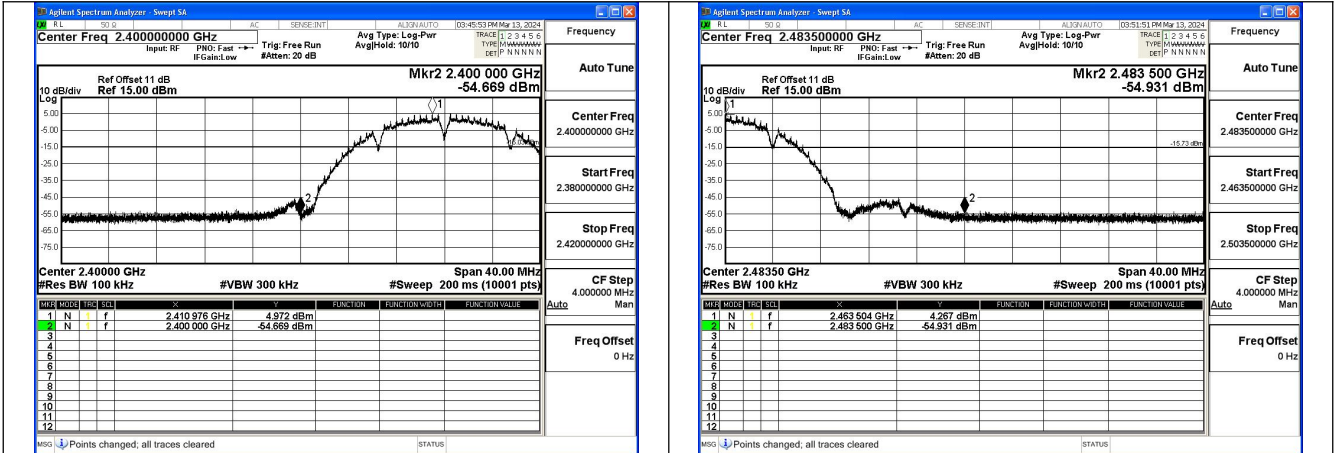
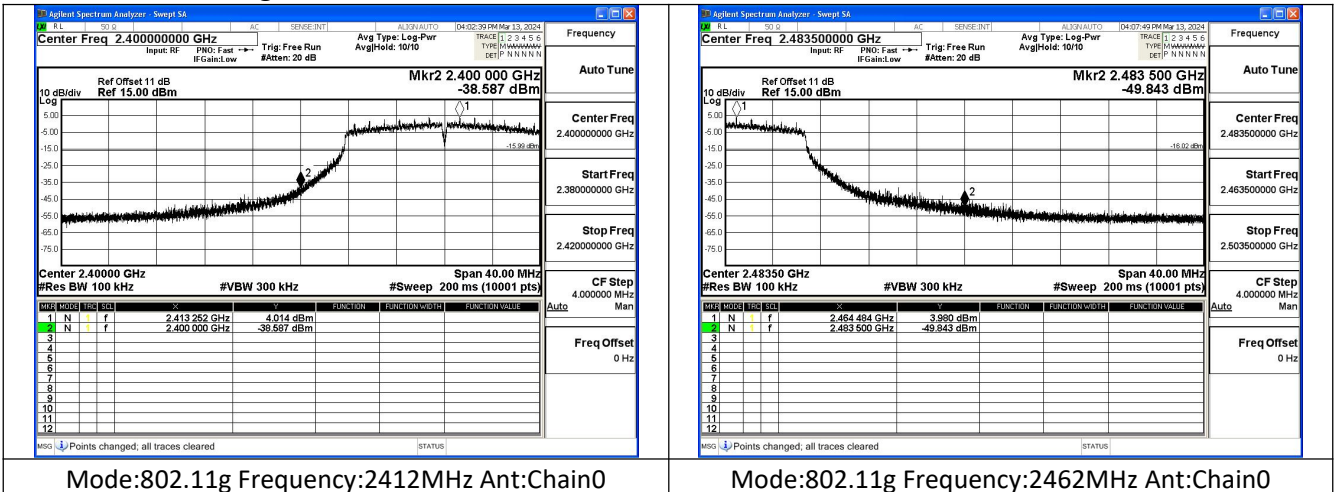


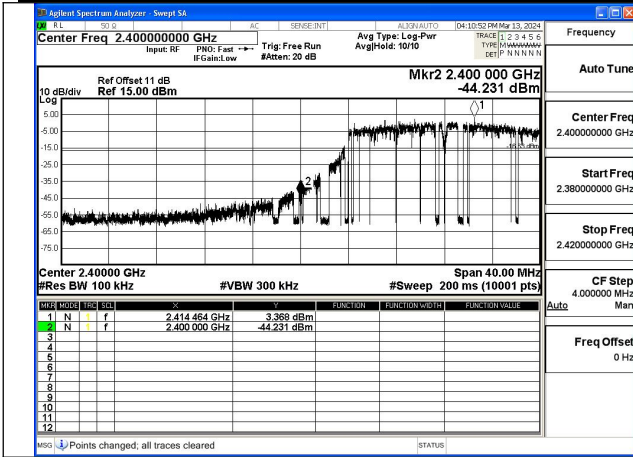
Band edge measurement

Test Mode: 802.11b

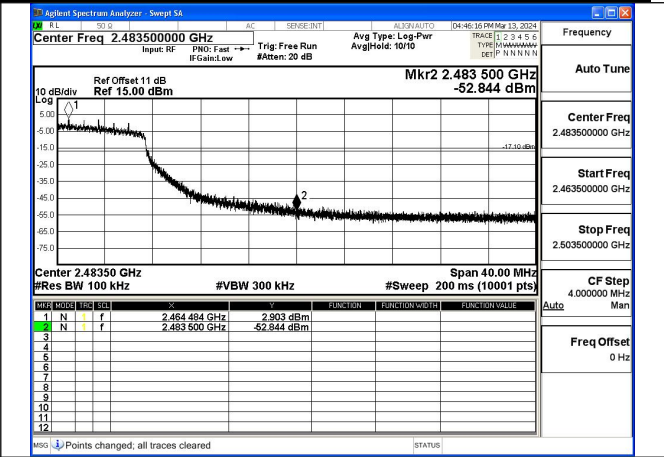


Test Mode: 802.11g



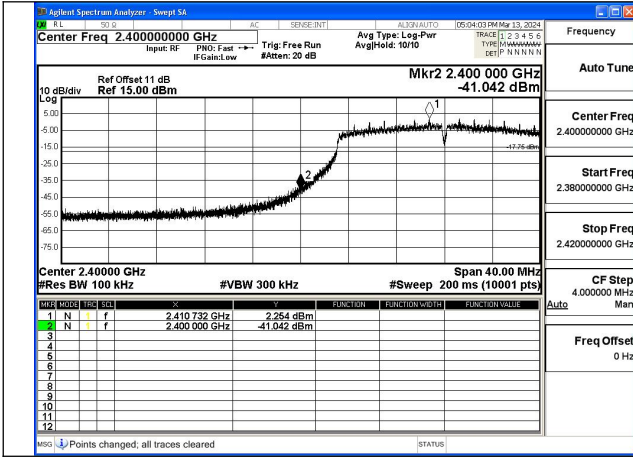


Mode:802.11g Frequency:2412MHz Ant:Chain1

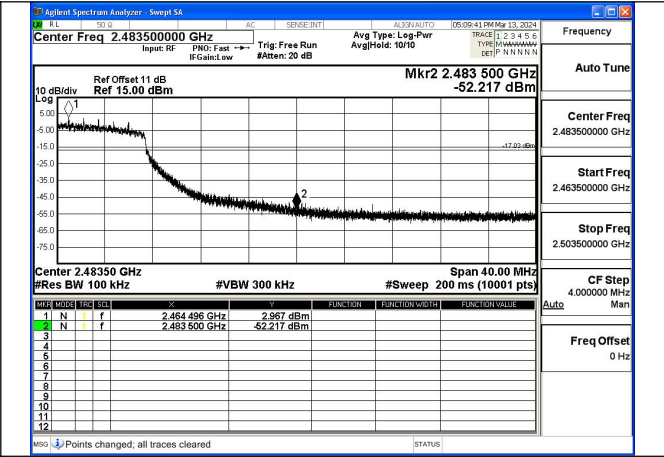


Mode:802.11g Frequency:2462MHz Ant:Chain1

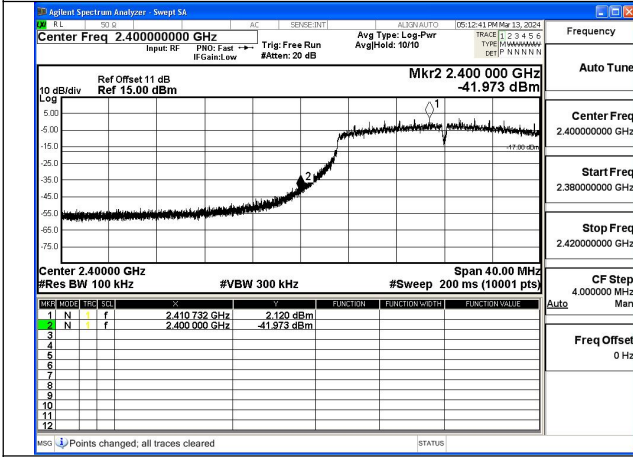
Test Mode: 802.11n HT20



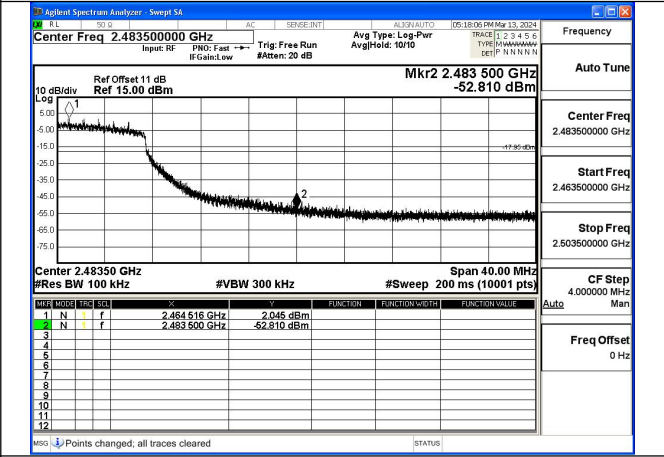
Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0



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

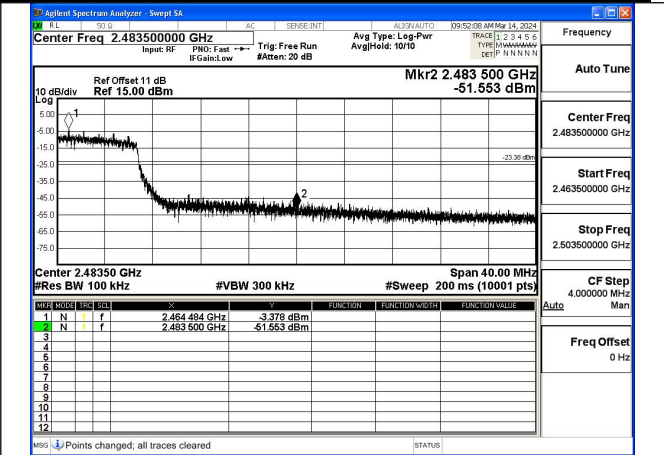
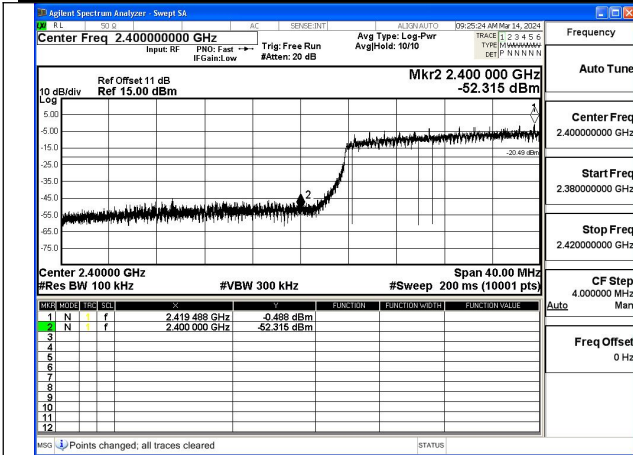


Mode:802.11n HT20 Frequency:2412MHz Ant:Chain1



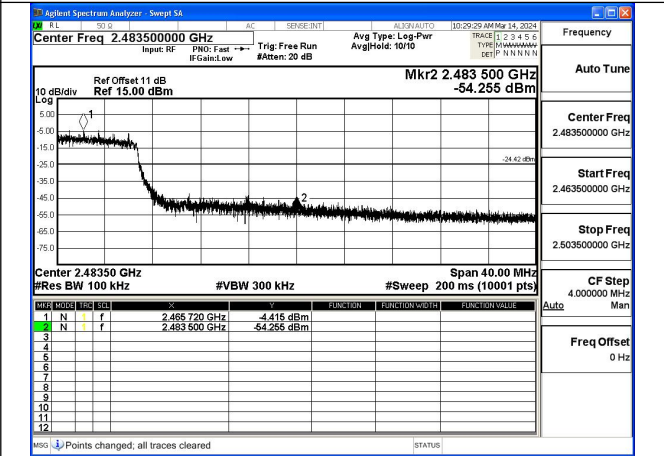
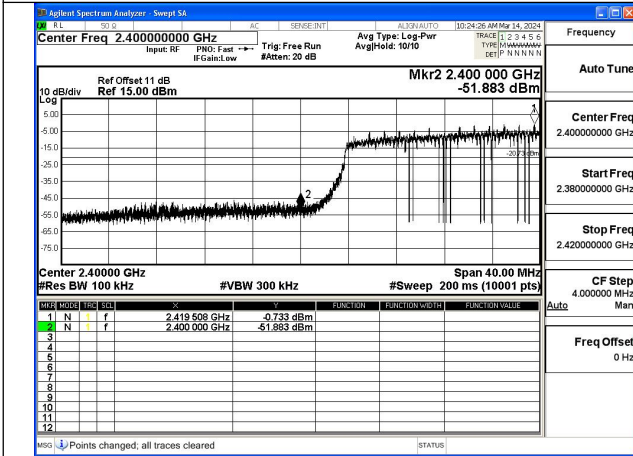
Mode:802.11n HT20 Frequency:2462MHz Ant:Chain1

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

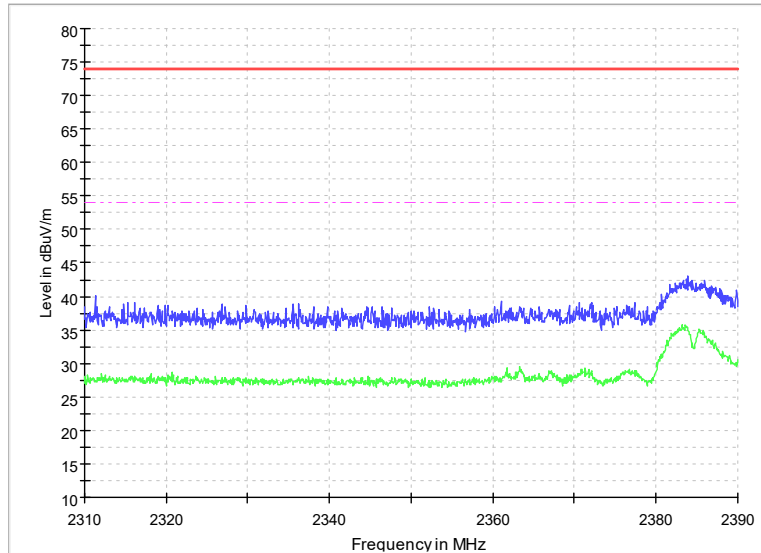
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain1

APPENDIX B – TEST DATA OF RADIATED EMISSION

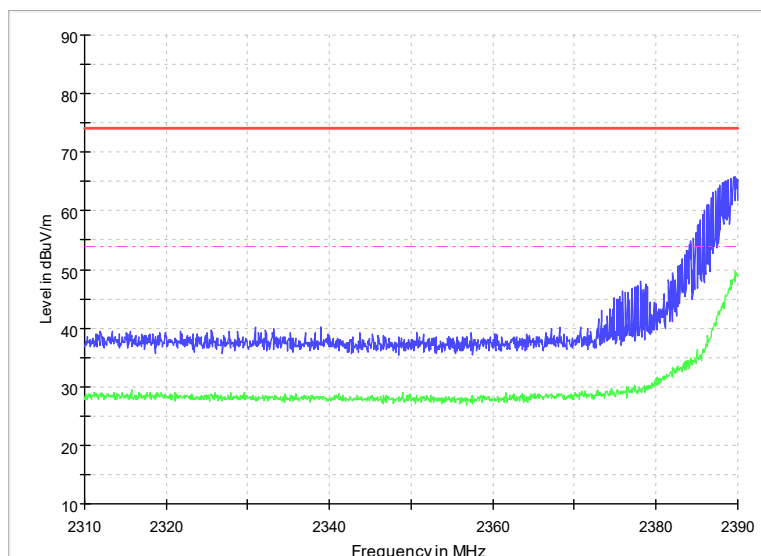
Note: The worst channel results are reflected in the report.

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

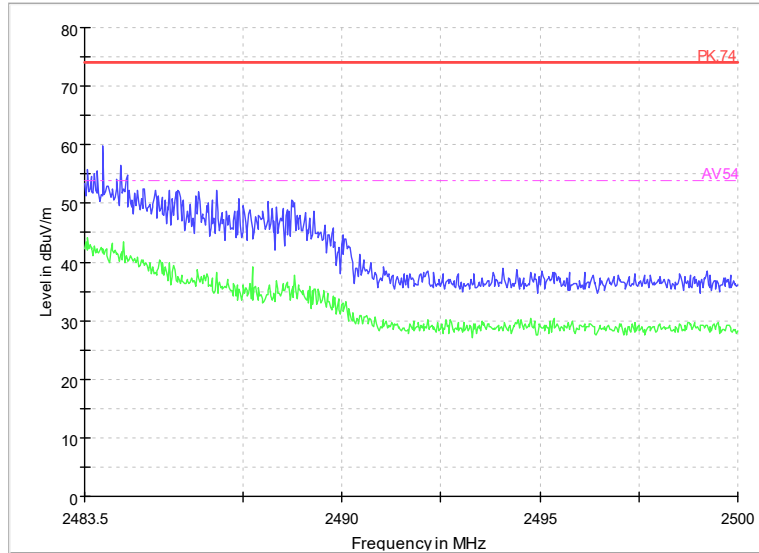


Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization: V

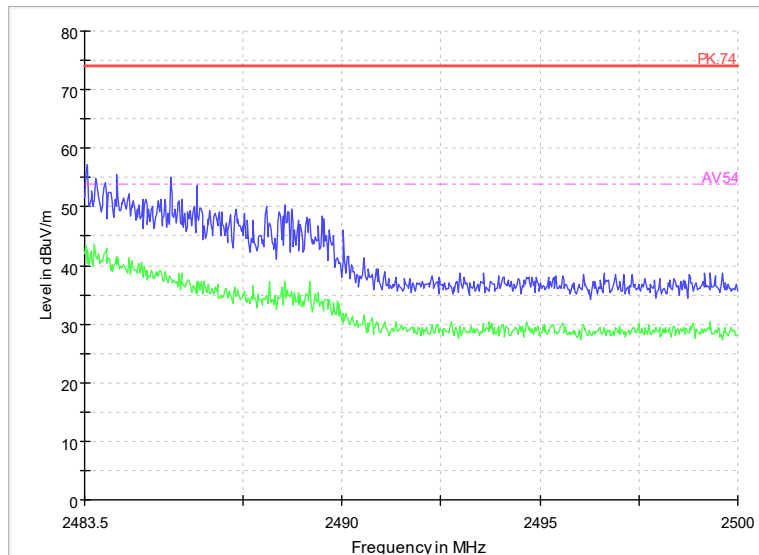


Radiated Emission Band Edge

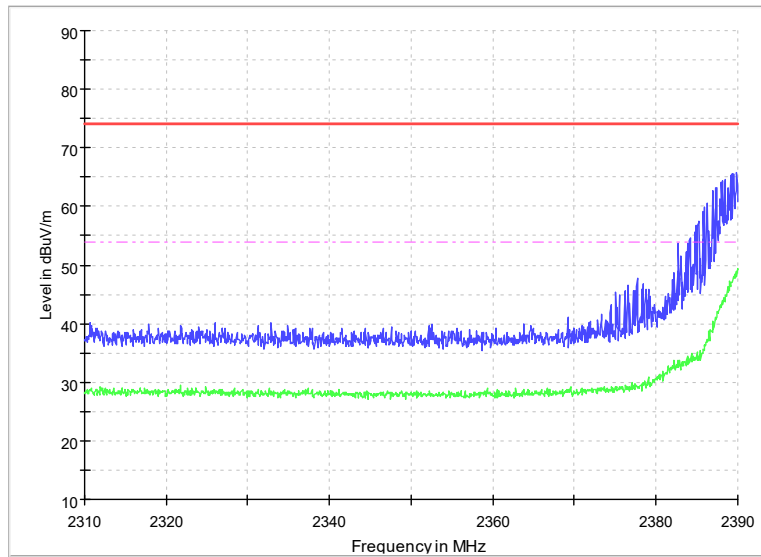
Channel No.:1
Test Mode: 802.11b
Polarization: H



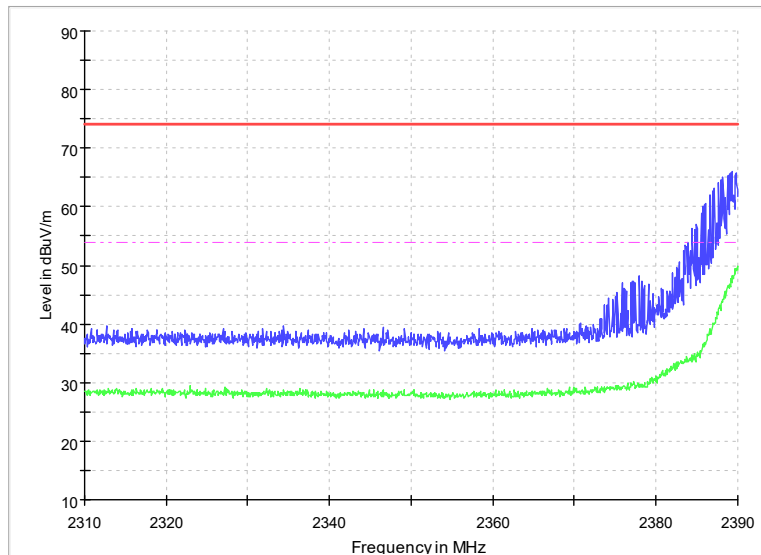
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization: V



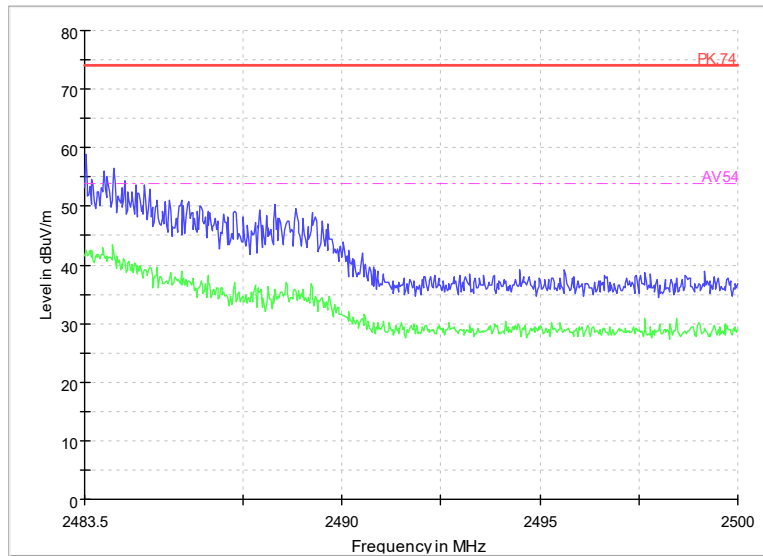
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization: H



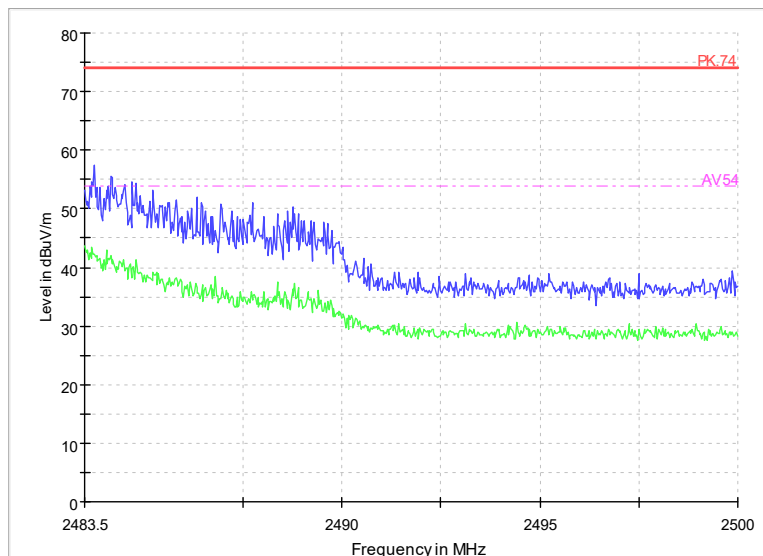
Radiated Emission Band Edge
 Channel No.:1
 Test Mode: 802.11g
 Polarization: V



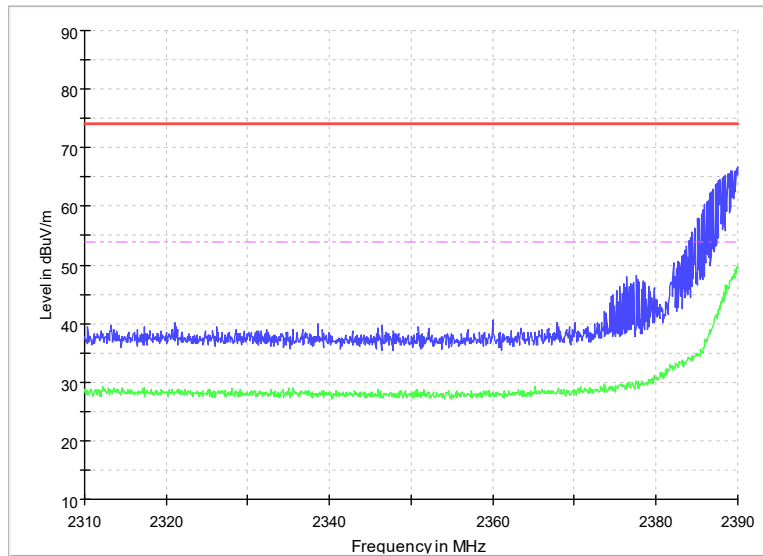
Radiated Emission Band Edge
 Channel No.:1
 Test Mode: 802.11g
 Polarization: H



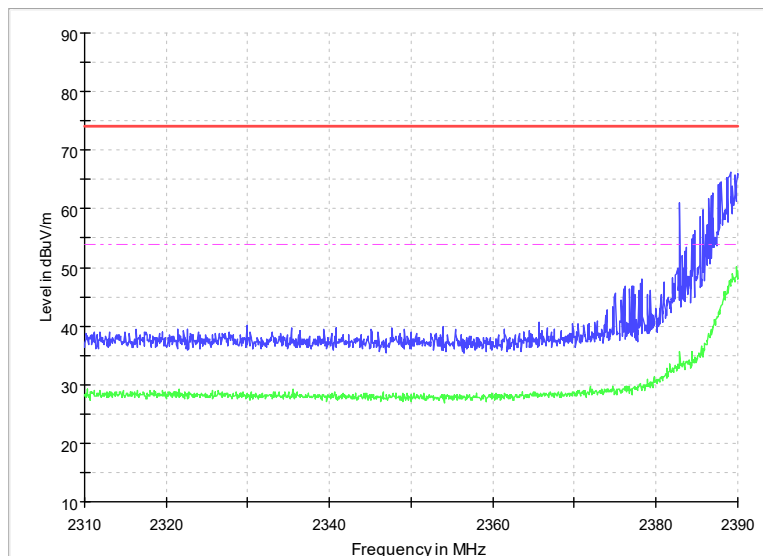
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: V



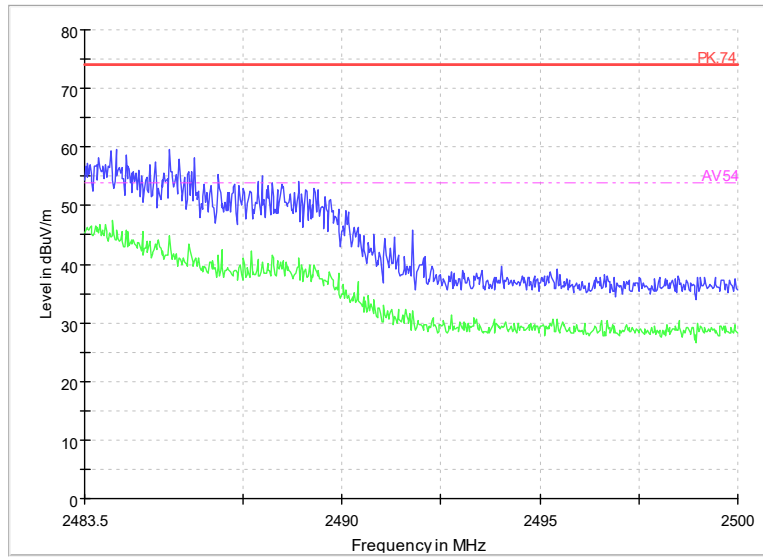
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: H



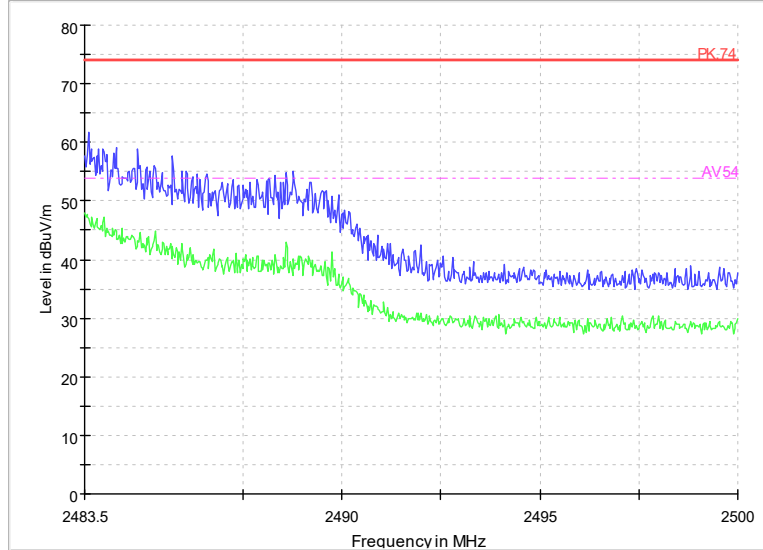
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization: V



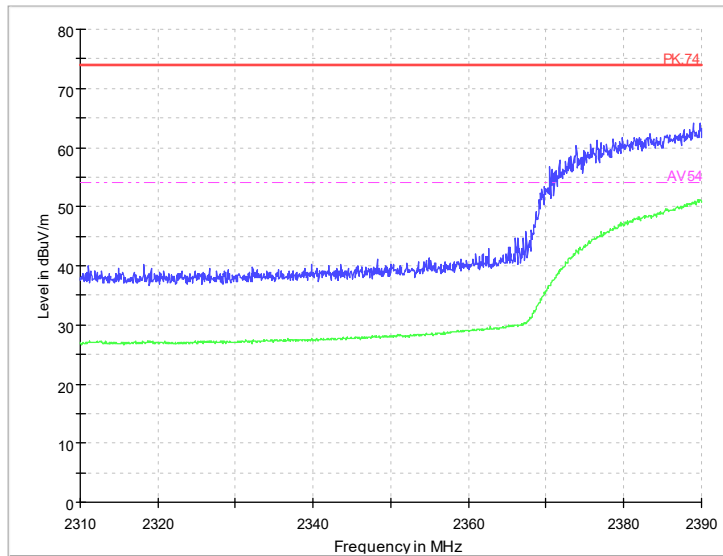
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization: H



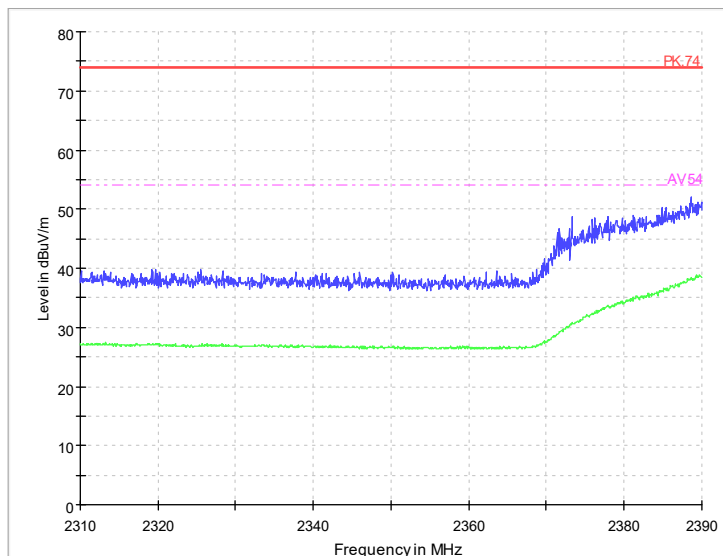
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization: V



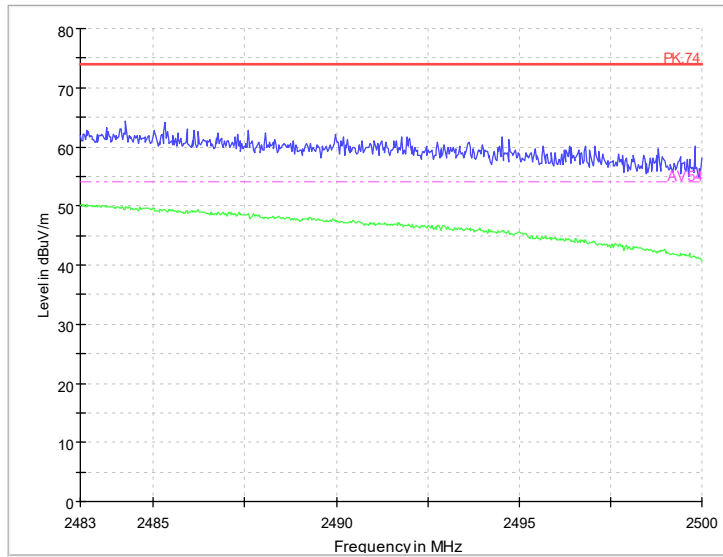
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization: H



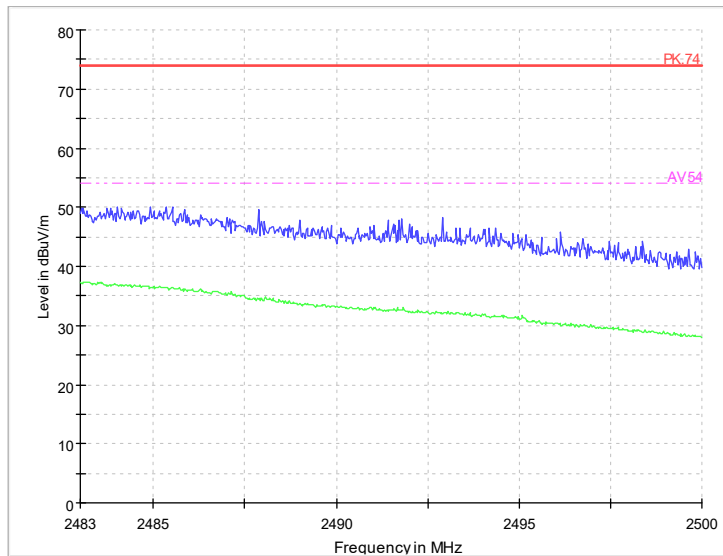
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n40
Polarization: V



Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n40
Polarization: H



Radiated Emission Band Edge
 Channel No.:9
 Test Mode: 802.11n40
 Polarization: V



Radiated Emission Band Edge
 Channel No.:9
 Test Mode: 802.11n40
 Polarization: H

Radiated Emission

Sample Calculations

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: $(12.98\text{dB}\mu\text{V}/\text{m}) = (32.18\text{dB}\mu\text{V}/\text{m}) + (-19.2\text{dB})$, the corresponding frequency is 39.312000MHz.

For 802.11b、802.11g、802.11n(HT20/HT40) is ANT1

NOTE: Horizontal and vertical have been tested, but due to poorer vertical polarity, only vertical polarity data has been retained

The worst case attitude: The mobile lay down.

For 802.11b Channel No.:1

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.698000	12.98	40.00	27.02	-19.2	32.18	Vertical
54.250000	10.33	40.00	29.67	-19.3	29.63	Vertical
119.967500	13.29	43.50	30.21	-20.4	33.69	Vertical
239.956500	12.69	46.00	33.31	-18.8	31.49	Vertical
553.994000	10.93	46.00	35.07	-11.1	22.03	Vertical
914.397500	15.52	46.00	30.48	-5.3	20.82	Vertical

For 802.11g Channel No.:1

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.746500	13.21	40.00	26.79	-19.2	32.41	Vertical
54.250000	9.49	40.00	30.51	-19.3	28.79	Vertical
119.967500	13.46	43.50	30.04	-20.4	33.86	Vertical
239.956500	12.73	46.00	33.27	-18.8	31.53	Vertical
520.868500	10.66	46.00	35.34	-11.8	22.46	Vertical
908.383500	15.42	46.00	30.58	-5.4	20.82	Vertical

For 802.11n(HT20) Channel No.:1

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.455500	12.38	40.00	27.62	-19.1	31.48	Vertical
58.178500	7.14	40.00	32.86	-19.7	26.84	Vertical
119.967500	13.42	43.50	30.08	-20.4	33.82	Vertical
239.956500	12.70	46.00	33.30	-18.8	31.50	Vertical
554.673000	10.88	46.00	35.12	-11.1	21.98	Vertical
909.984000	15.40	46.00	30.60	-5.4	20.80	Vertical

For 802.11b Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.552500	13.13	40.00	26.87	-19.2	32.33	Vertical
54.589500	9.36	40.00	30.64	-19.3	28.66	Vertical
119.967500	13.47	43.50	30.03	-20.4	33.87	Vertical
239.956500	12.72	46.00	33.28	-18.8	31.52	Vertical
479.983000	13.55	46.00	32.45	-12.7	26.25	Vertical
936.271000	15.72	46.00	30.28	-5.1	20.82	Vertical

For 802.11g Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.795000	12.93	40.00	27.07	-19.2	32.13	Vertical
54.298500	10.25	40.00	29.75	-19.3	29.55	Vertical
119.967500	13.42	43.50	30.08	-20.4	33.82	Vertical
240.005000	14.47	46.00	31.53	-18.8	33.27	Vertical
551.326500	11.03	46.00	34.97	-11.1	22.13	Vertical
953.197500	15.60	46.00	30.40	-5.0	20.60	Vertical

For 802.11n(HT20) Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.504000	13.09	40.00	26.91	-19.1	32.19	Vertical
54.250000	10.11	40.00	29.89	-19.3	29.41	Vertical
119.967500	13.36	43.50	30.14	-20.4	33.76	Vertical
239.956500	12.60	46.00	33.40	-18.8	31.40	Vertical
507.531000	10.45	46.00	35.55	-12.1	22.55	Vertical
943.546000	15.59	46.00	30.41	-5.1	20.69	Vertical

For 802.11b Channel No.:11

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.504000	13.16	40.00	26.84	-19.1	32.26	Vertical
56.093000	7.97	40.00	32.03	-19.5	27.47	Vertical
119.967500	13.33	43.50	30.17	-20.4	33.73	Vertical
239.956500	12.67	46.00	33.33	-18.8	31.47	Vertical
540.317000	11.09	46.00	34.91	-11.4	22.49	Vertical
866.431000	14.41	46.00	31.59	-6.0	20.41	Vertical

For 802.11g Channel No.:11

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
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52.504000	12.64	40.00	27.36	-19.1	31.74	Vertical
54.541000	8.13	40.00	31.87	-19.3	27.43	Vertical
119.967500	13.22	43.50	30.28	-20.4	33.62	Vertical
240.005000	14.36	46.00	31.64	-18.8	33.16	Vertical
454.472000	8.89	46.00	37.11	-13.2	22.09	Vertical
932.682000	15.59	46.00	30.41	-5.2	20.79	Vertical

For 802.11n(HT20) Channel No.:11

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.455500	13.27	40.00	26.73	-19.1	32.37	Vertical
56.141500	8.19	40.00	31.81	-19.5	27.69	Vertical
119.967500	13.40	43.50	30.10	-20.4	33.80	Vertical
240.005000	14.52	46.00	31.48	-18.8	33.32	Vertical
557.001000	10.83	46.00	35.17	-11.0	21.83	Vertical
912.263500	15.43	46.00	30.57	-5.3	20.73	Vertical

For 802.11n(HT40) Channel No.:3

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.407000	12.38	40.00	27.62	-19.1	31.48	Vertical
54.250000	10.01	40.00	29.99	-19.3	29.31	Vertical
119.967500	13.24	43.50	30.26	-20.4	33.64	Vertical
239.956500	12.58	46.00	33.42	-18.8	31.38	Vertical
479.983000	13.38	46.00	32.62	-12.7	26.08	Vertical
950.578500	15.53	46.00	30.47	-5.1	20.63	Vertical

For 802.11n(HT40) Channel No.:6

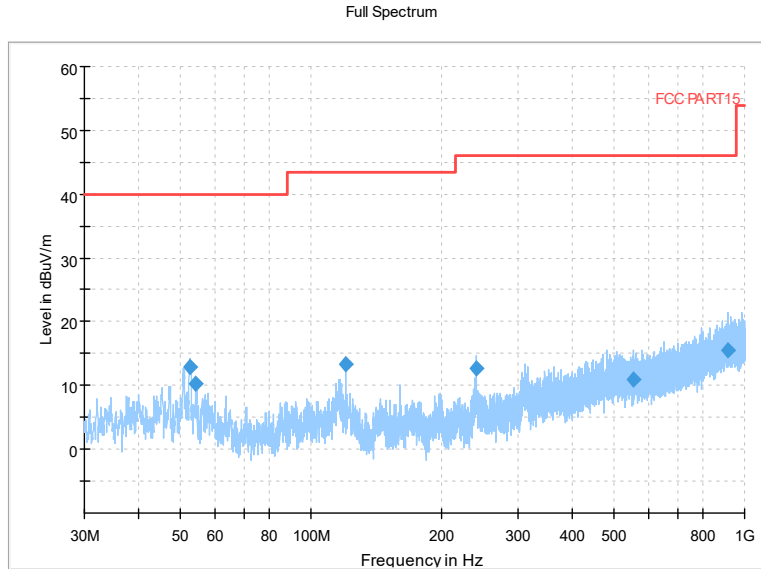
Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.552500	12.77	40.00	27.23	-19.2	31.97	Vertical
54.298500	10.30	40.00	29.70	-19.3	29.60	Vertical
119.967500	13.29	43.50	30.21	-20.4	33.69	Vertical
239.956500	12.79	46.00	33.21	-18.8	31.59	Vertical
512.332500	10.82	46.00	35.18	-12.0	22.82	Vertical
887.674000	14.98	46.00	31.02	-5.7	20.68	Vertical

For 802.11n(HT40) Channel No.:9

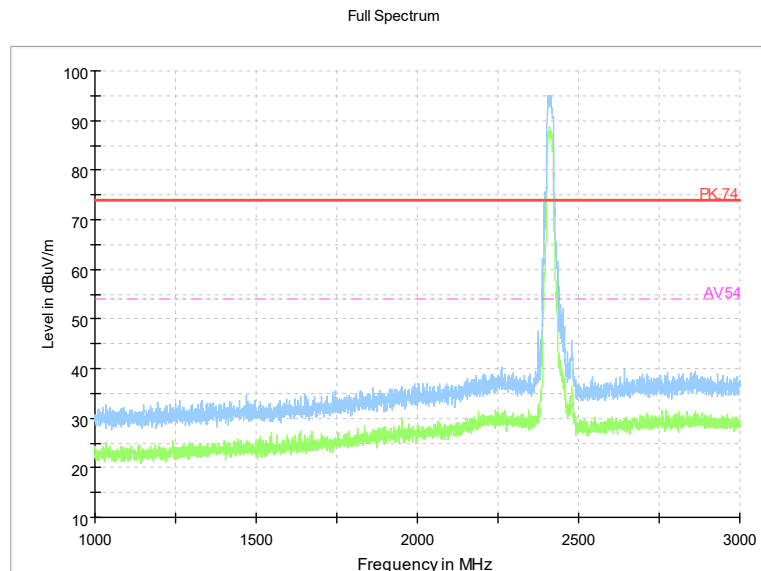
Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
52.455500	12.63	40.00	27.37	-19.1	31.73	Vertical
54.201500	8.23	40.00	31.77	-19.3	27.53	Vertical
119.967500	13.39	43.50	30.11	-20.4	33.79	Vertical
240.005000	14.48	46.00	31.52	-18.8	33.28	Vertical

546.767500	11.20	46.00	34.80	-11.2	22.40	Vertical
941.460500	15.74	46.00	30.26	-5.1	20.84	Vertical

Carrier frequency (MHz): 2412
Channel No.:1

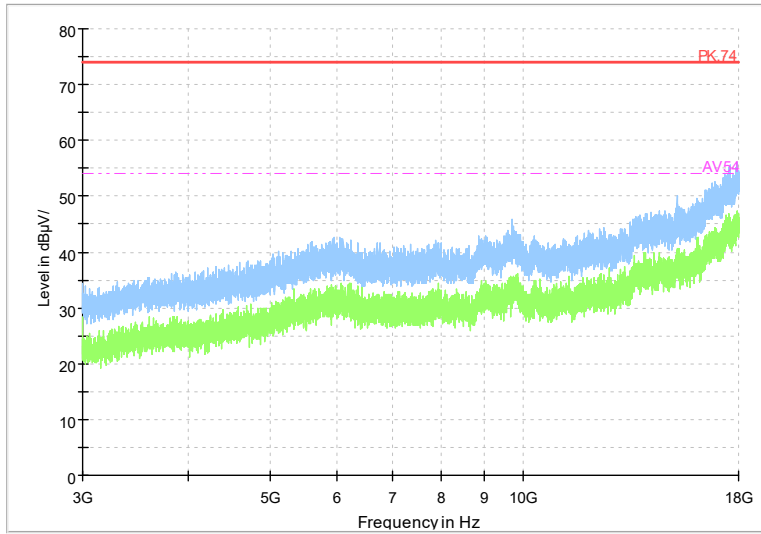


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b



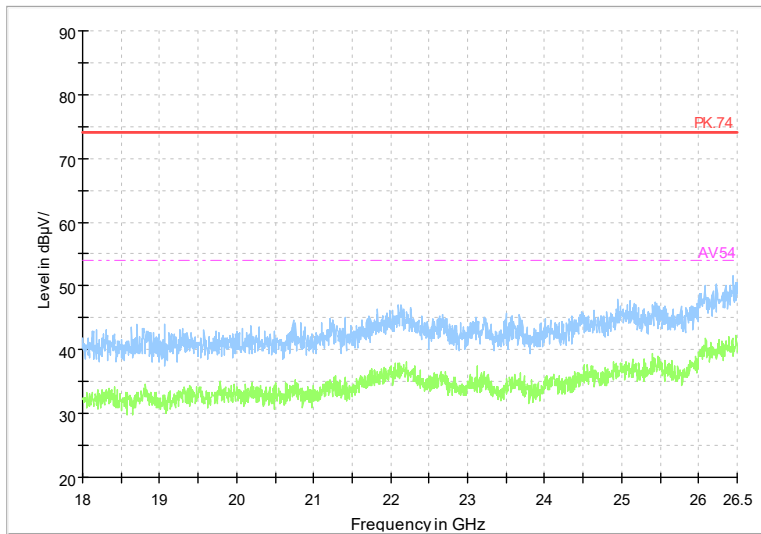
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



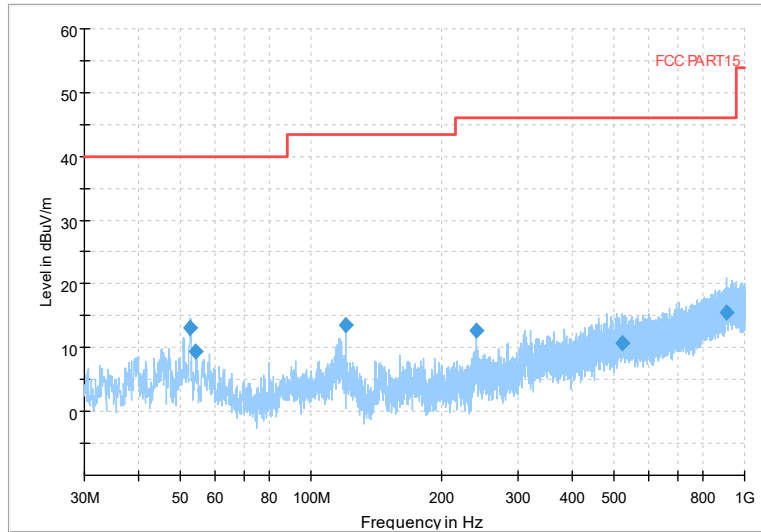
Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum



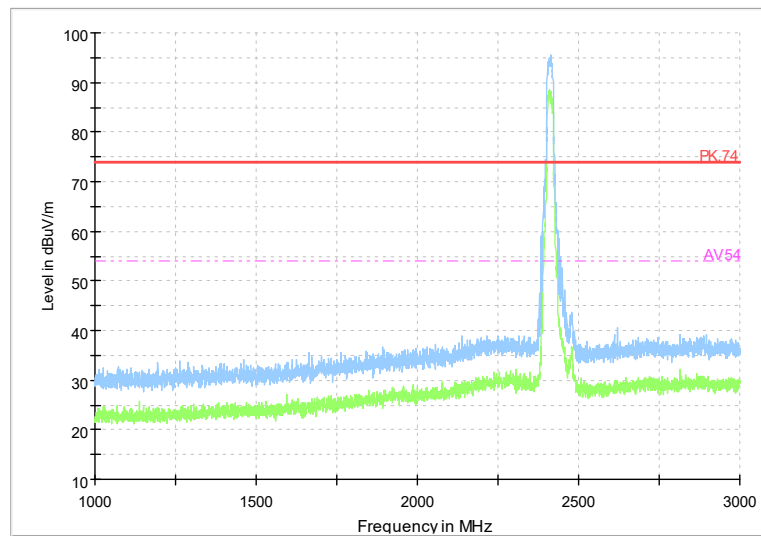
Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum



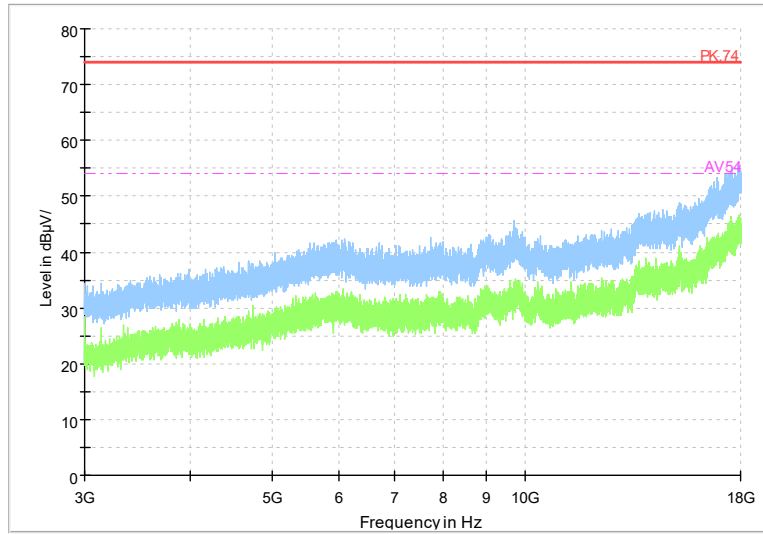
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Modulation type: 802.11g

Full Spectrum



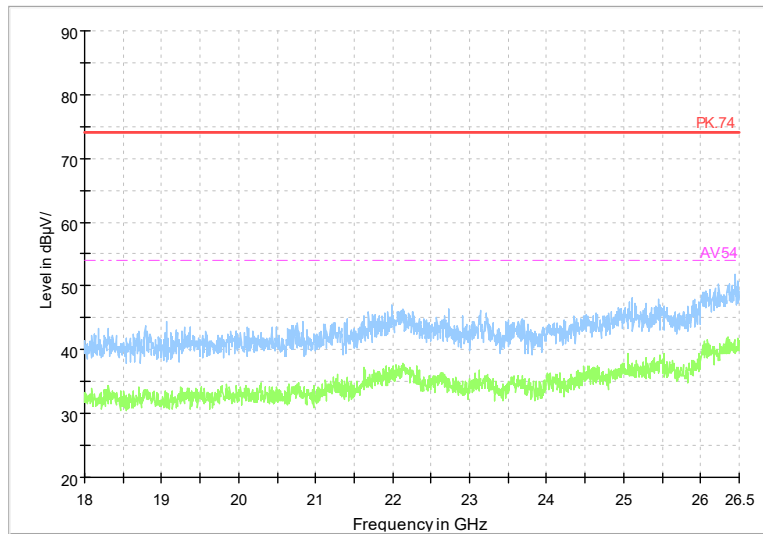
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



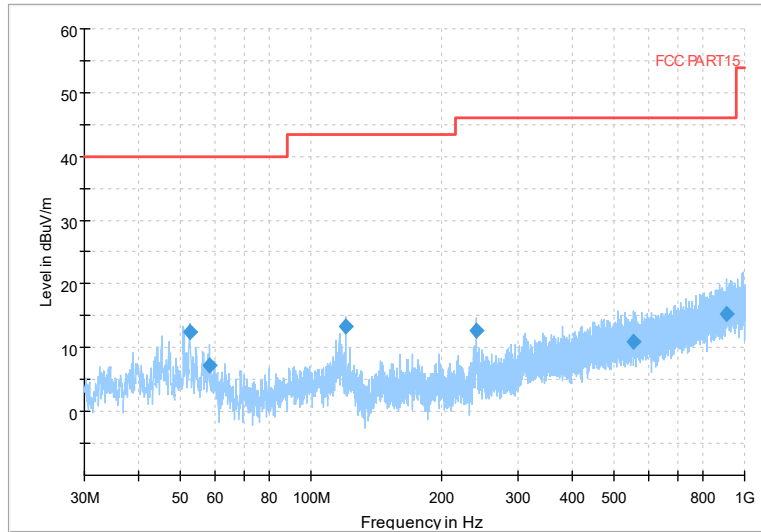
Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



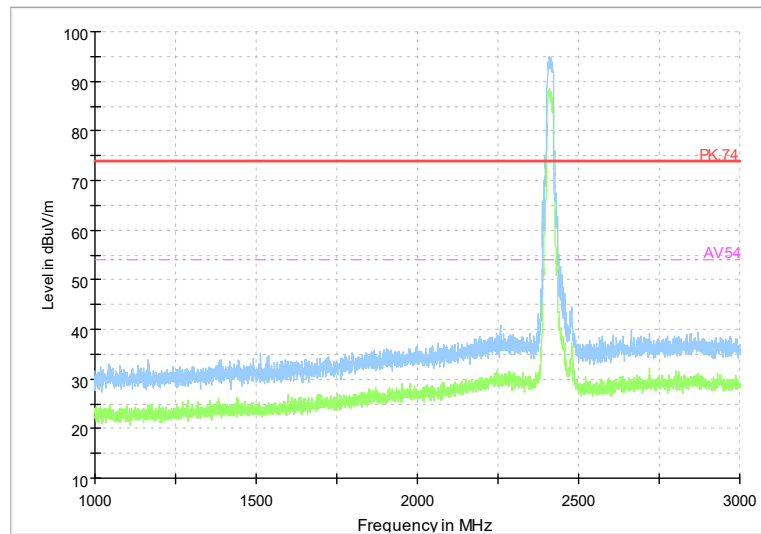
Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



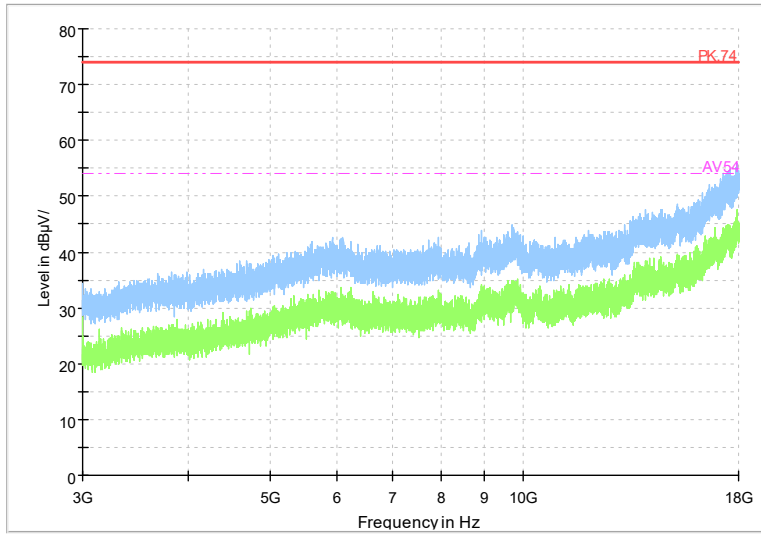
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11n(HT20)

Full Spectrum



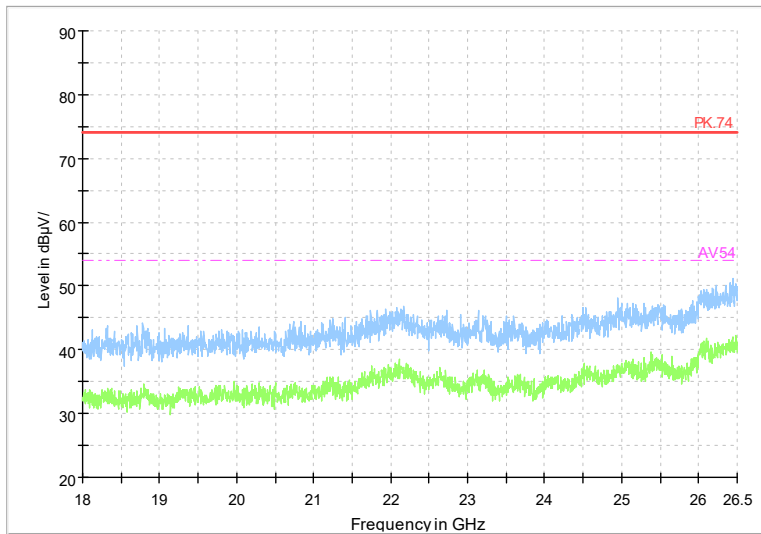
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

Full Spectrum



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

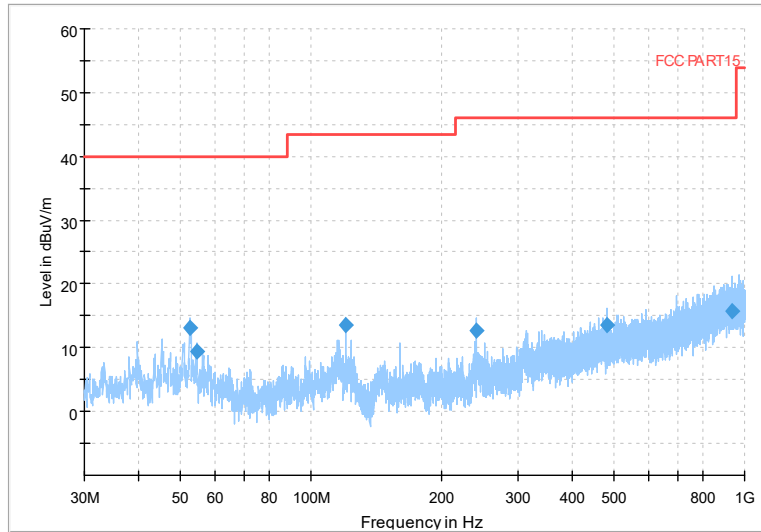
Full Spectrum



Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

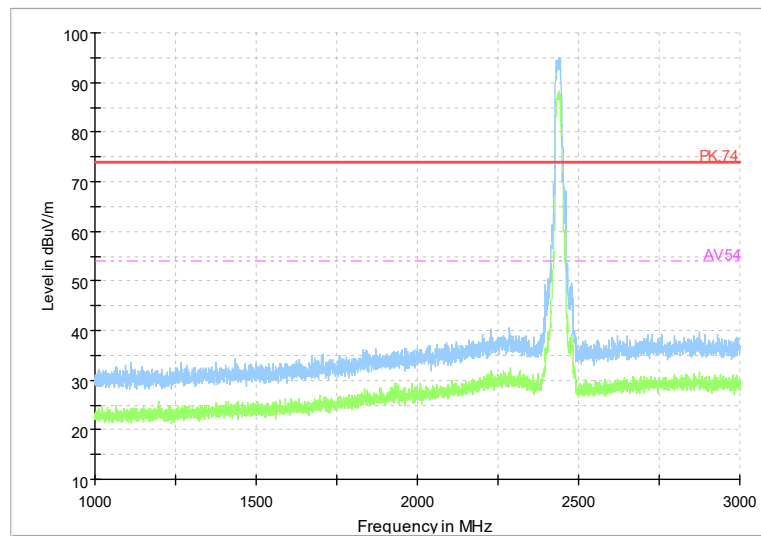
Carrier frequency (MHz): 2437
Channel No.:6

Full Spectrum



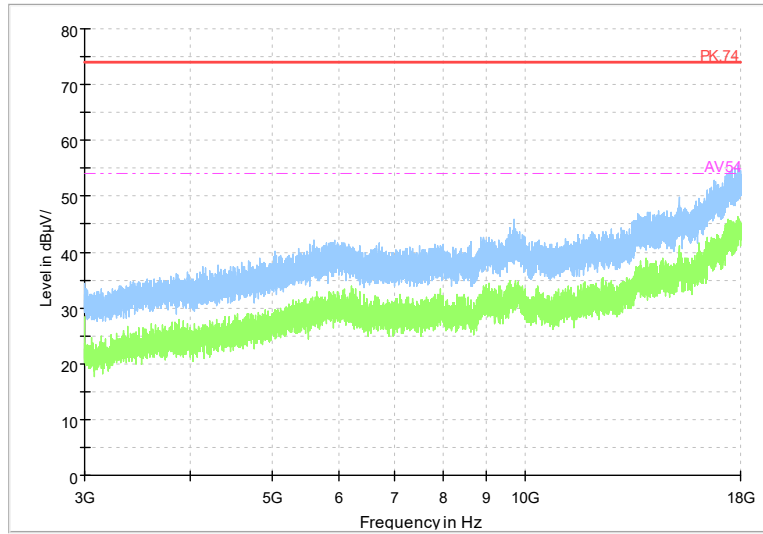
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11b

Full Spectrum



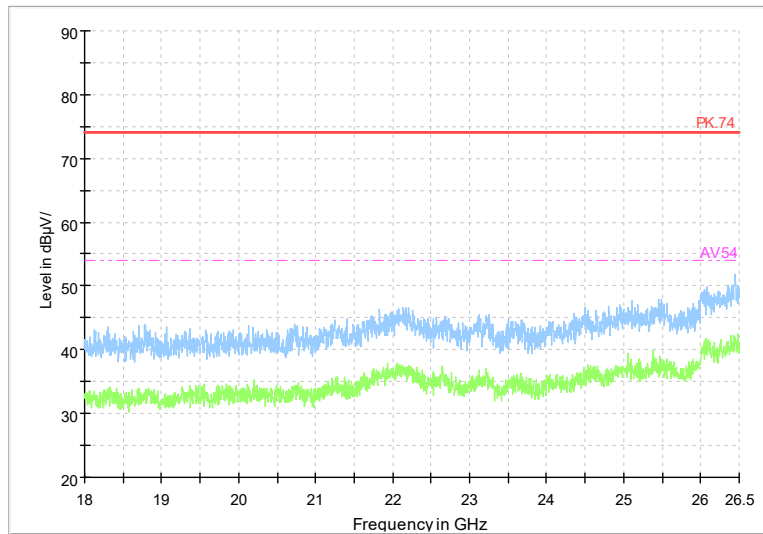
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum



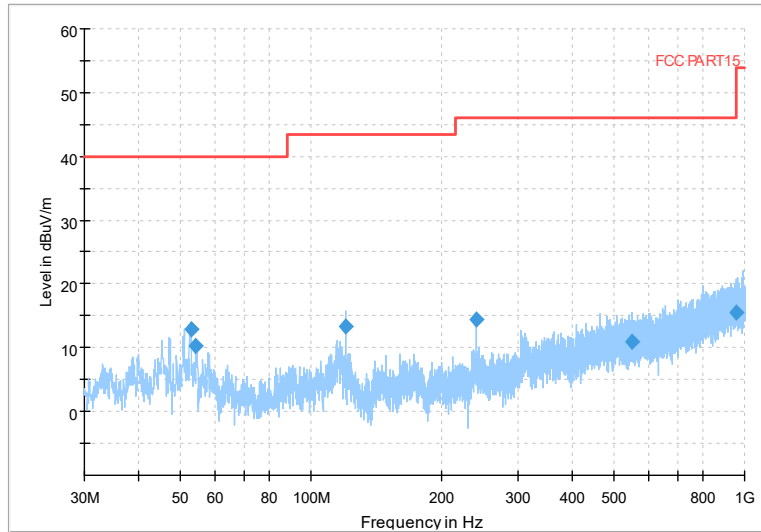
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



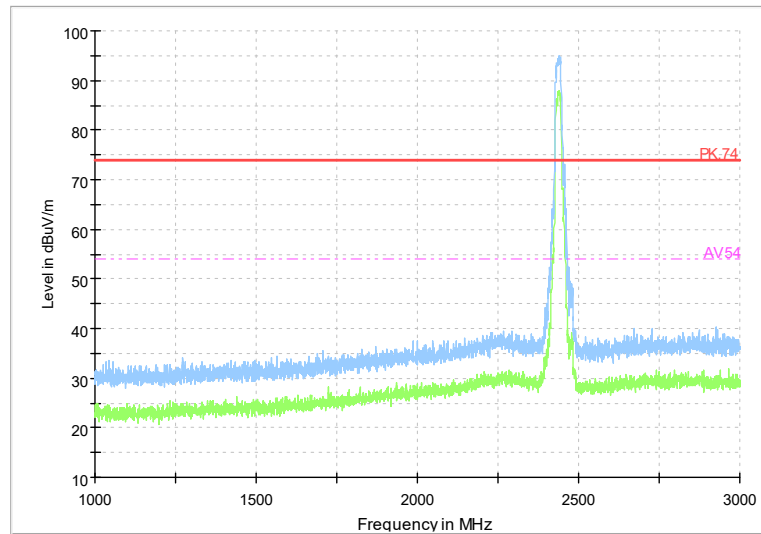
Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



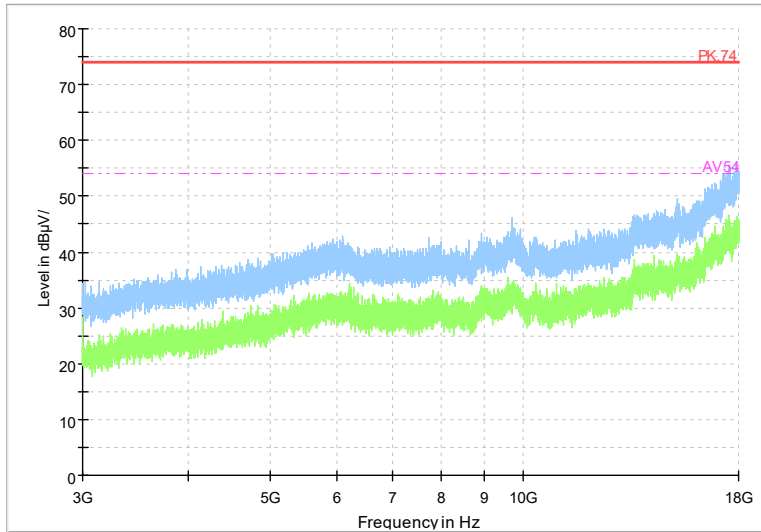
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Modulation type: 802.11g

Full Spectrum



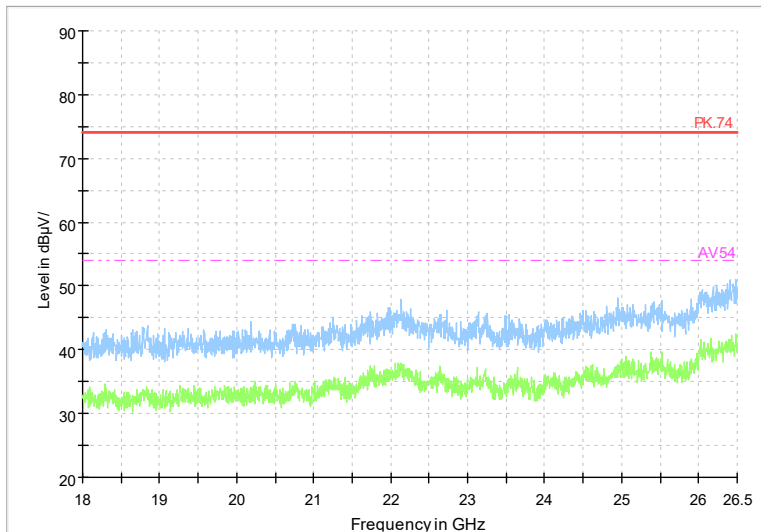
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



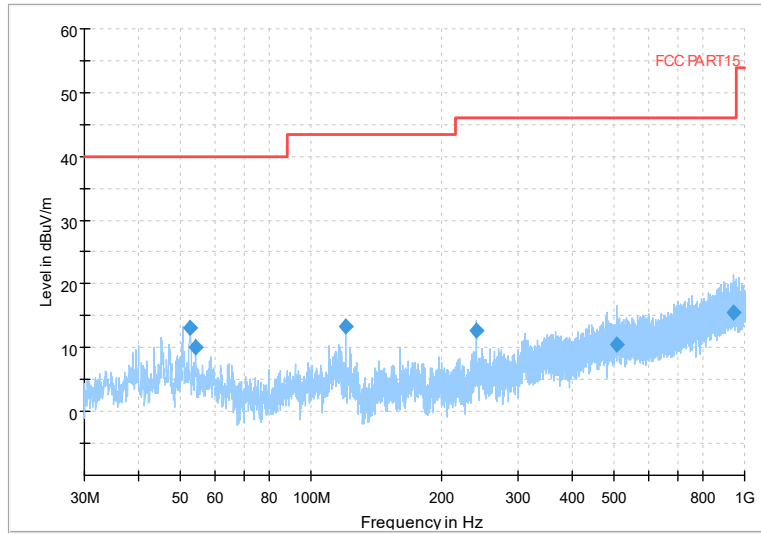
Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



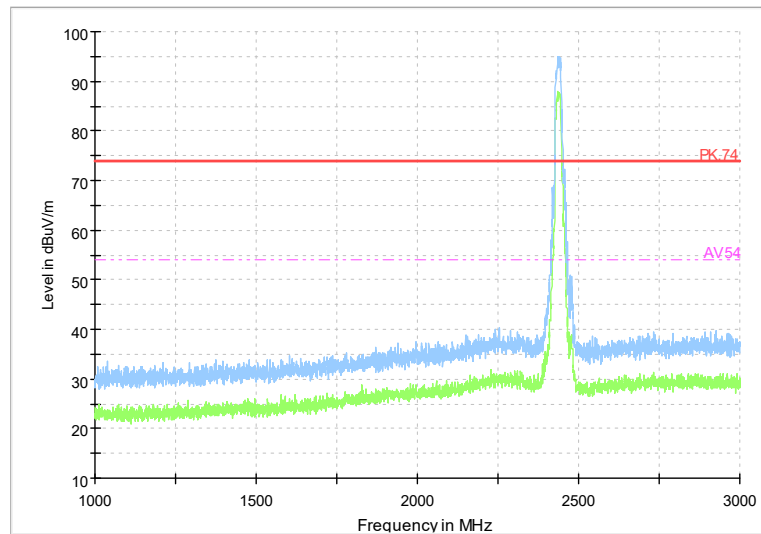
Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



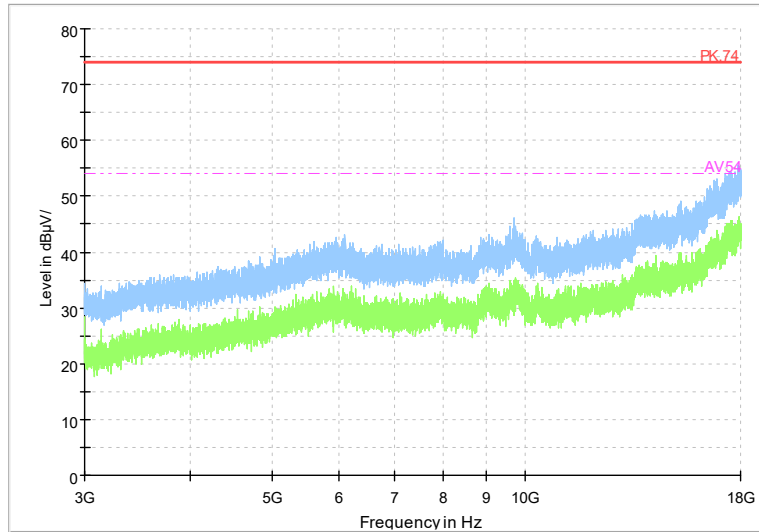
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11n(HT20)

Full Spectrum



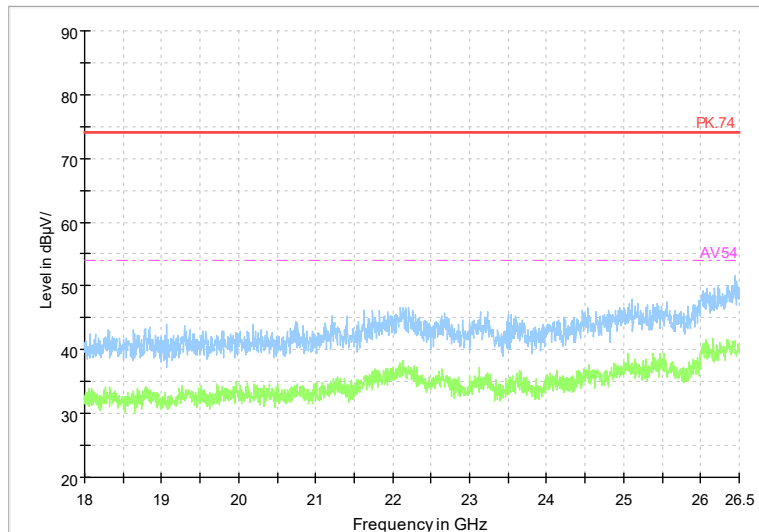
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

Full Spectrum



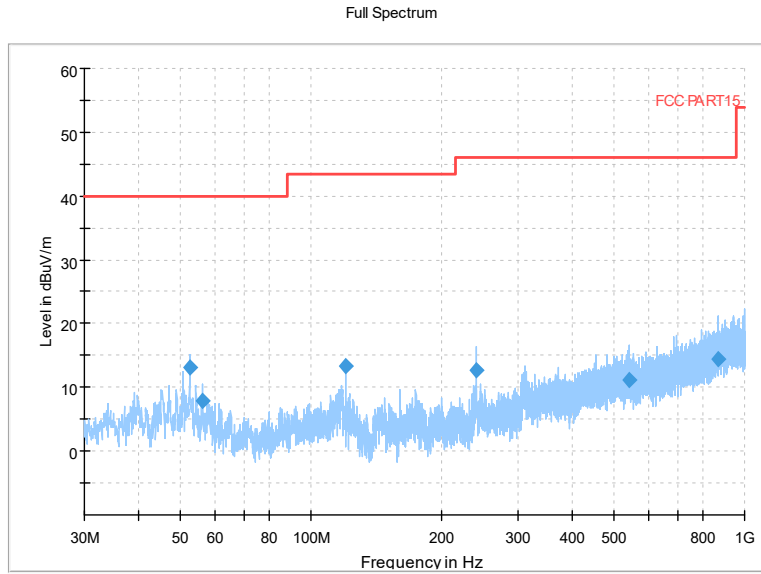
Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

Full Spectrum

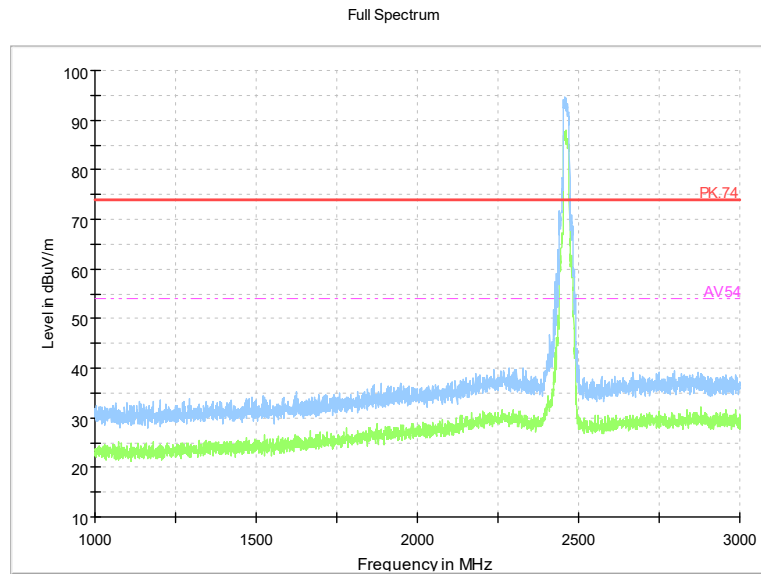


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

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

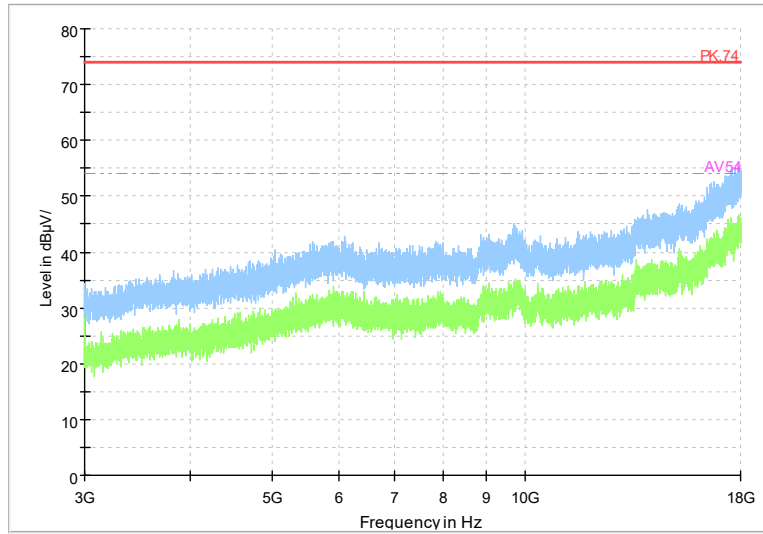


Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11b



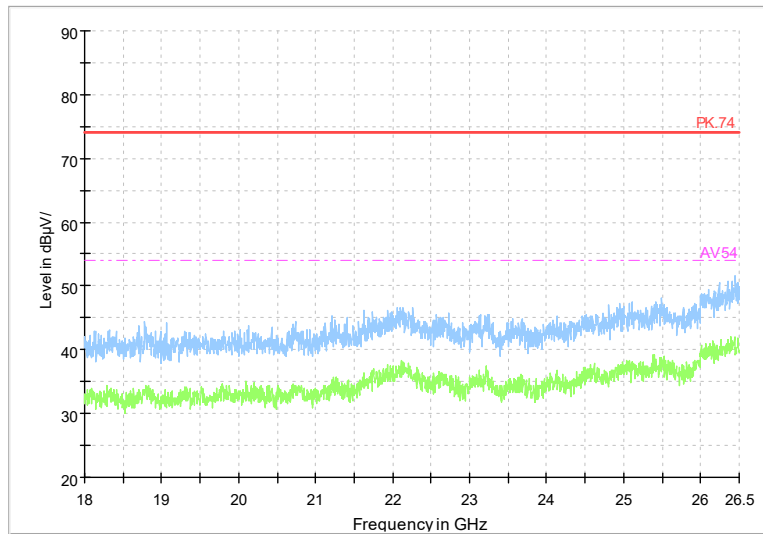
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum



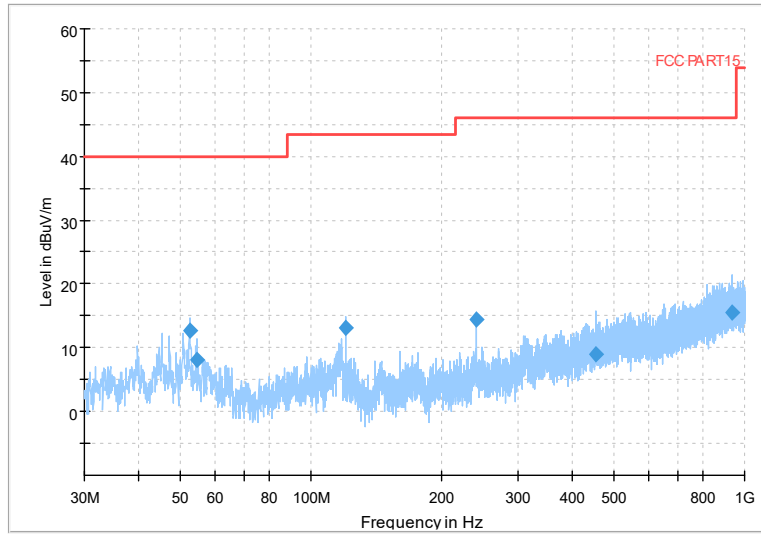
Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum



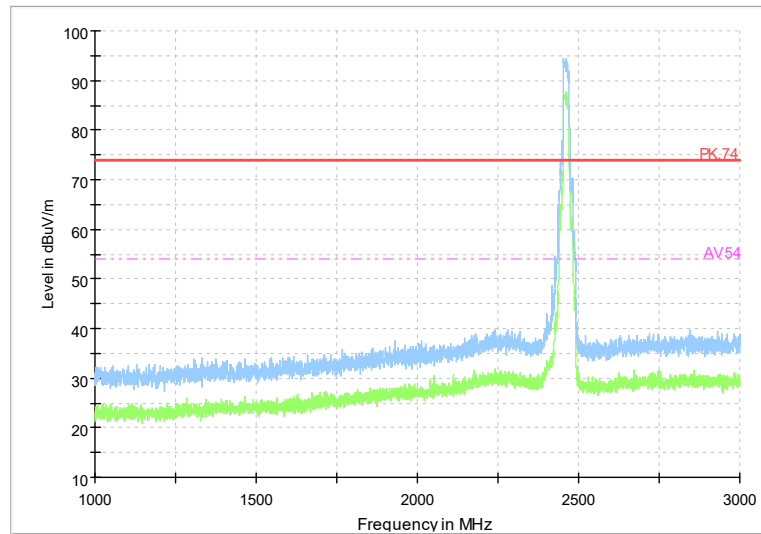
Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11b

Full Spectrum



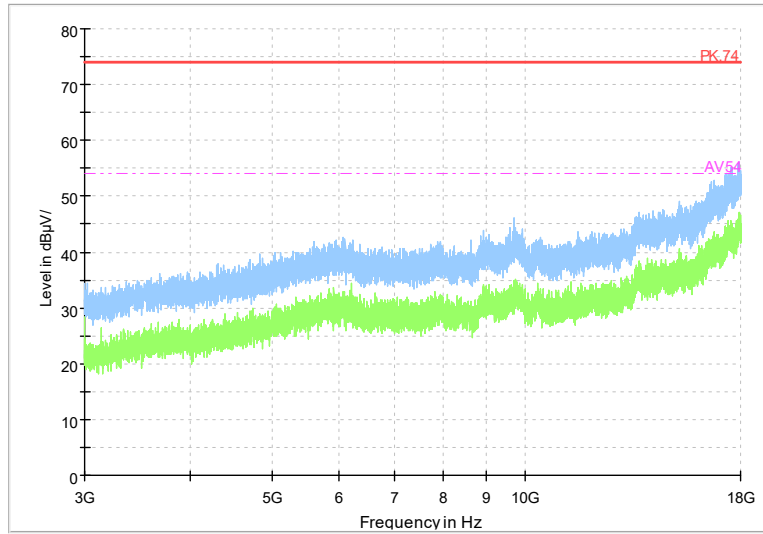
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Modulation type: 802.11g

Full Spectrum



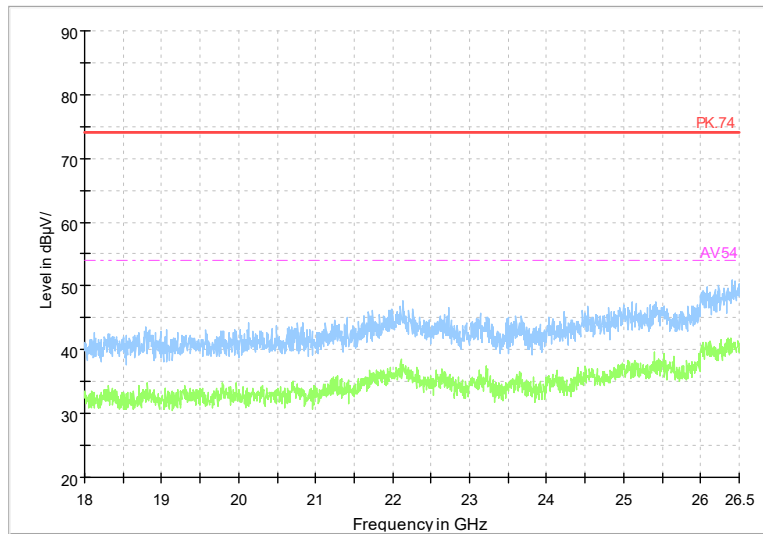
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



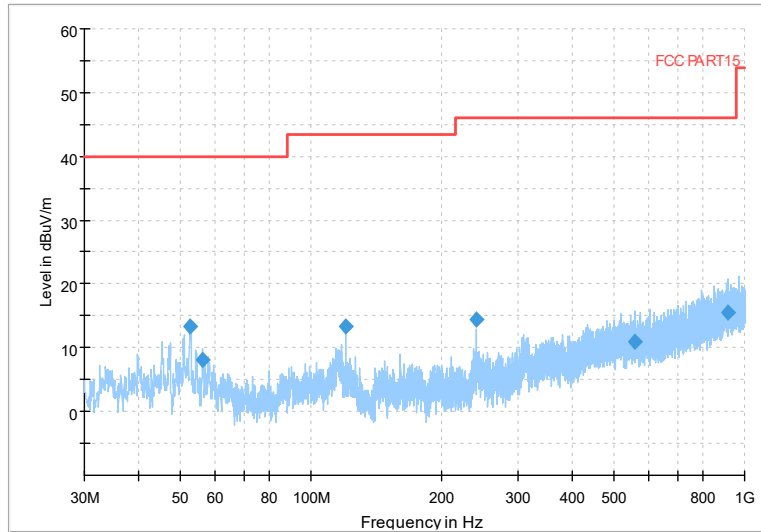
Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



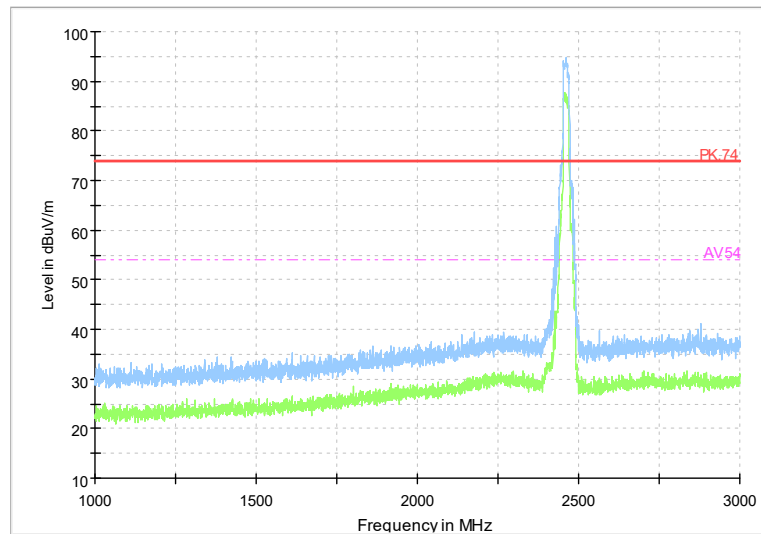
Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11g

Full Spectrum



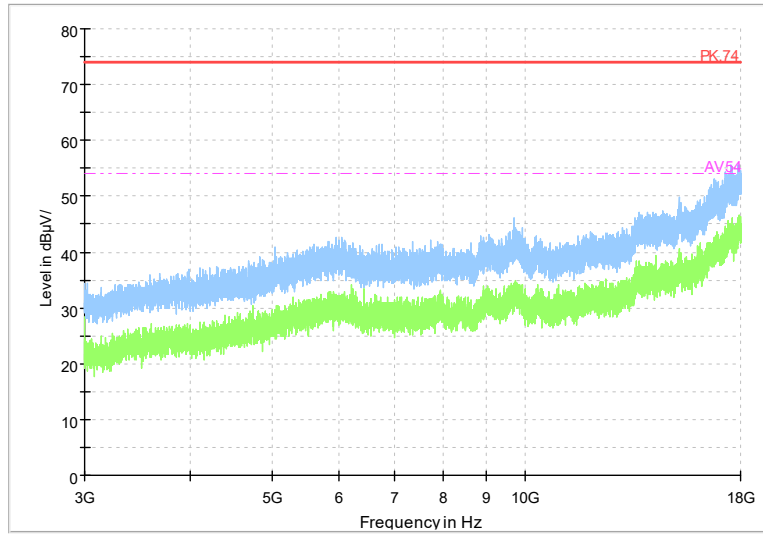
Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11n(HT20)

Full Spectrum



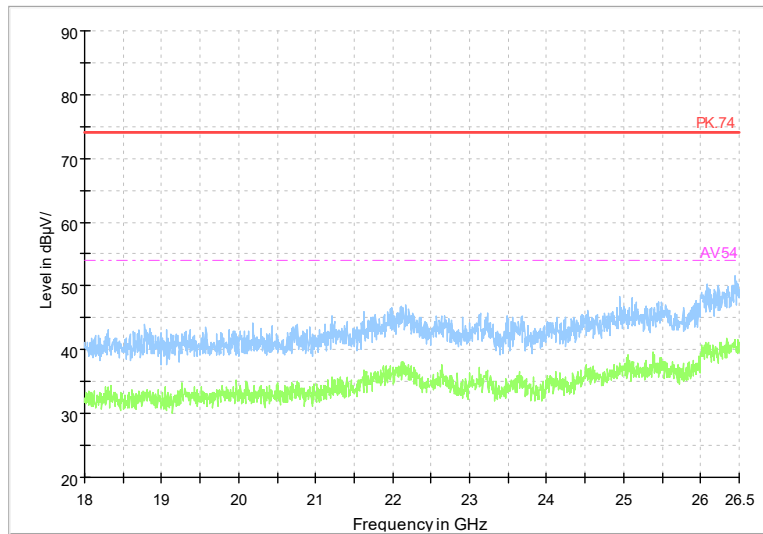
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

Full Spectrum



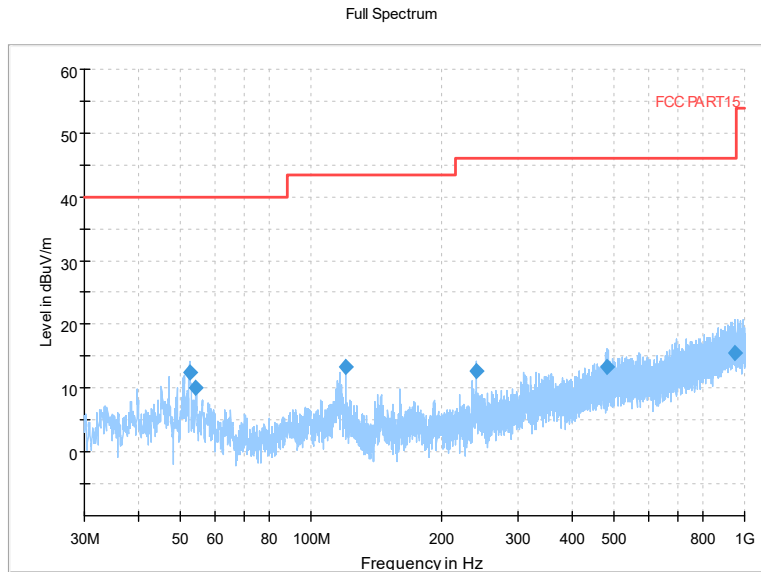
Frequency Range: 3GHz -18GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

Full Spectrum

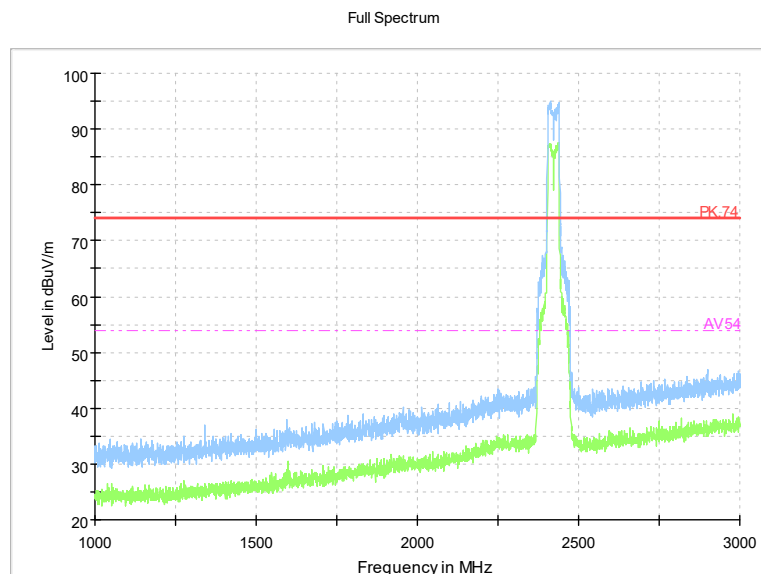


Frequency Range: 18GHz -25GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT20)

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

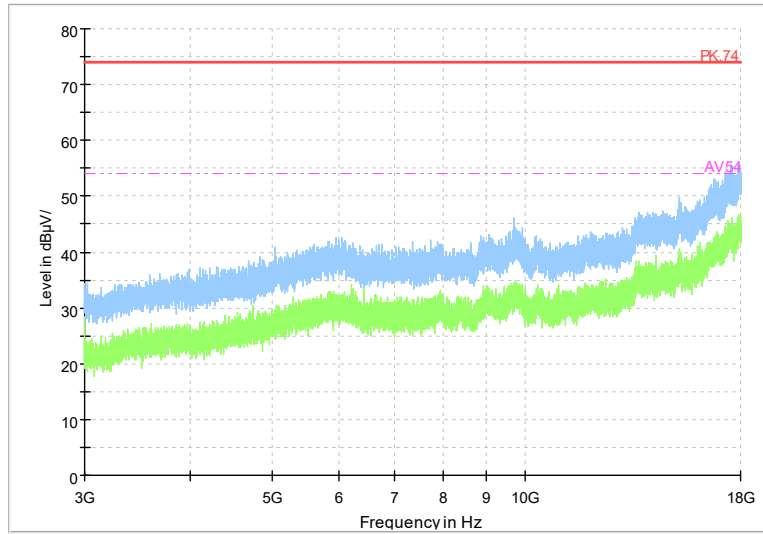


Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11n(HT40)



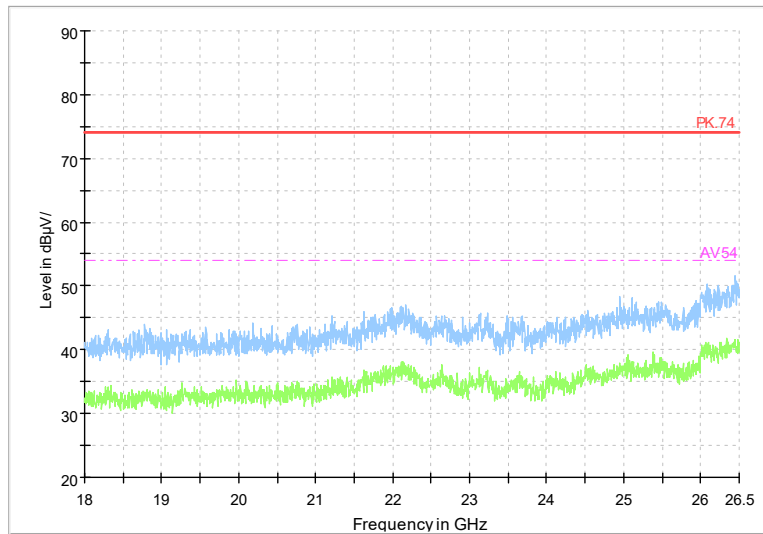
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT40)

Full Spectrum



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

Full Spectrum

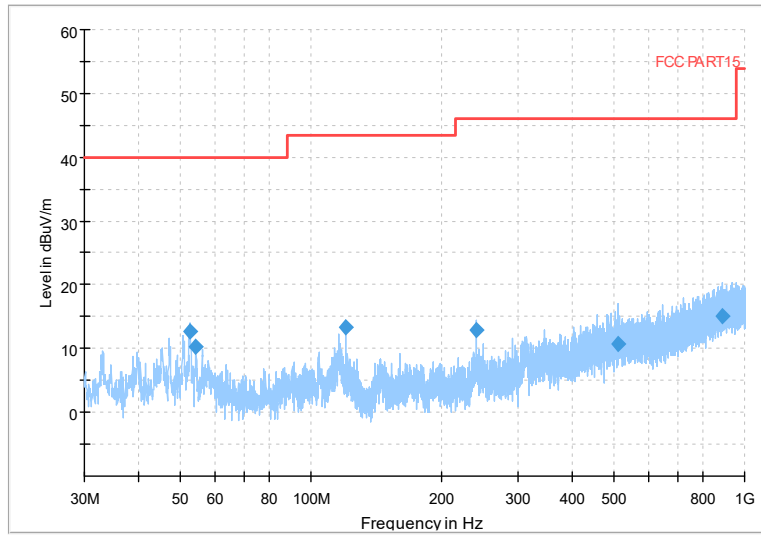


Frequency Range: 18GHz -26GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT40)

Carrier frequency (MHz): 2437

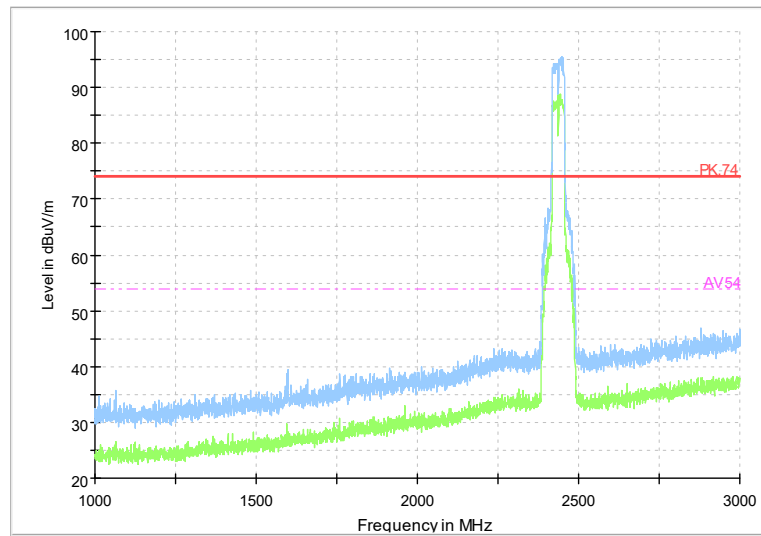
Channel No.:6

Full Spectrum



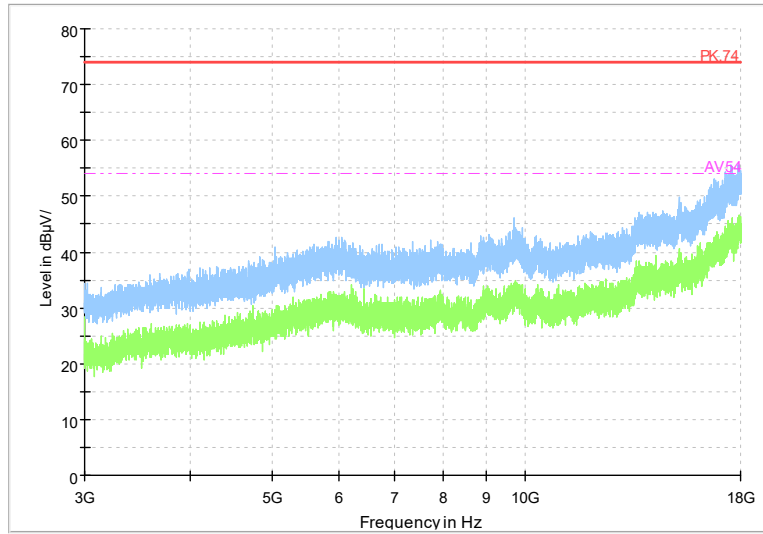
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT40)

Full Spectrum



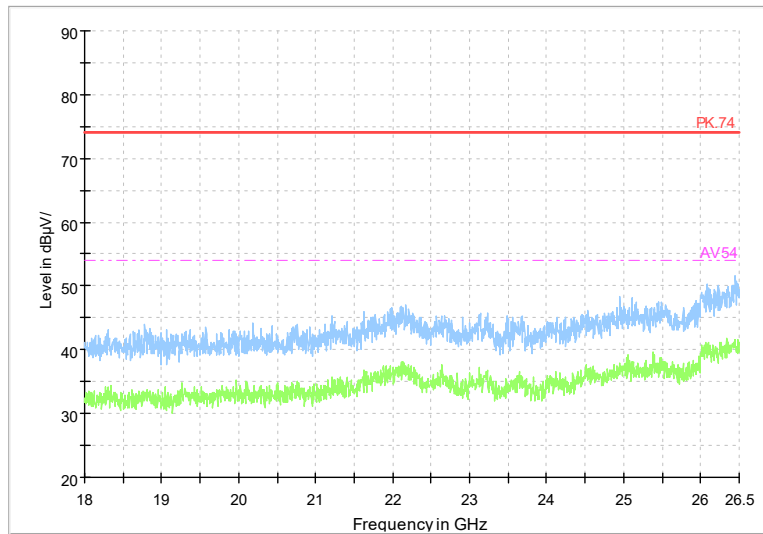
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Full Spectrum



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

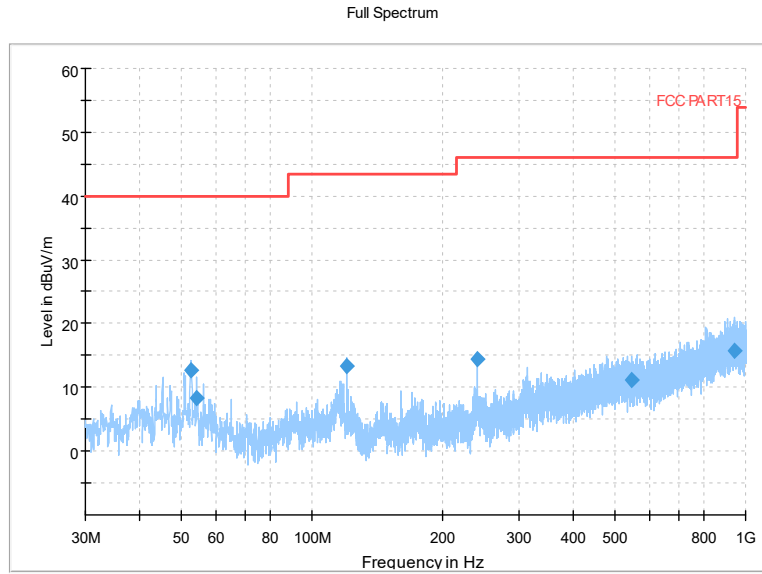
Full Spectrum



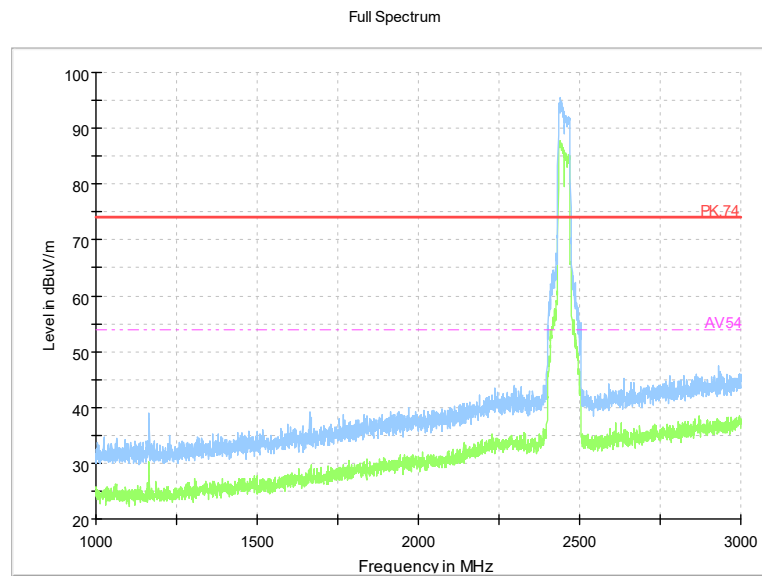
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

Carrier frequency (MHz): 2452

Channel No.:9

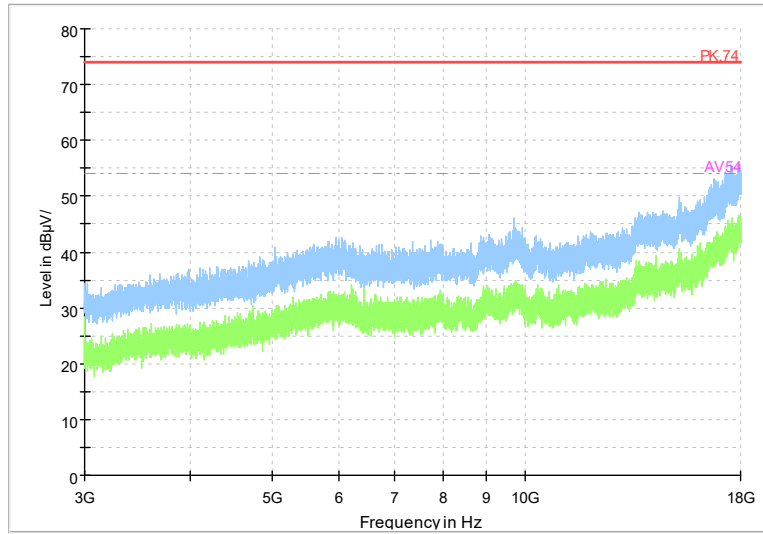


Frequency Range: 30MHz -1GHz
 Detector: QP mode
 Test Mode: 802.11n(HT40)



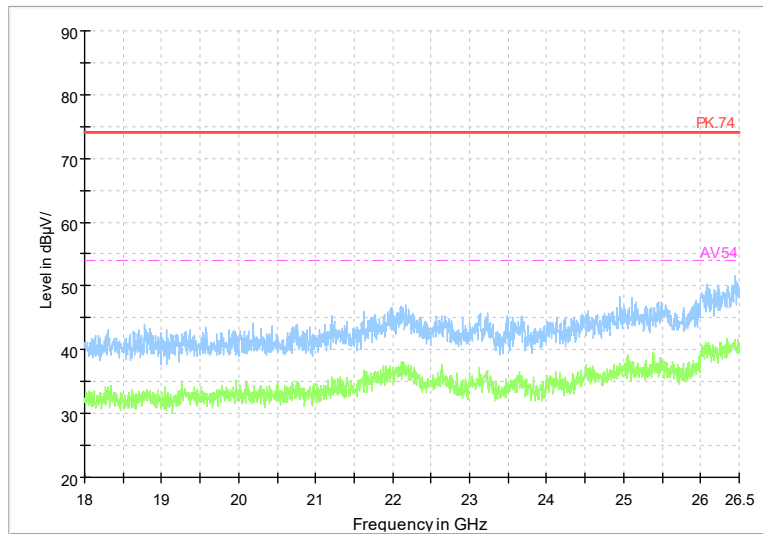
Frequency Range: 1GHz -3GHz
 Detector: Av mode and PK mode
 Modulation type: 802.11n(HT40)

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)

---End of Test Report---