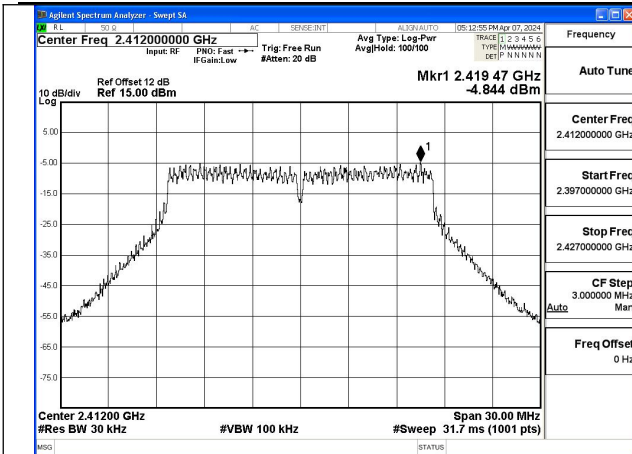
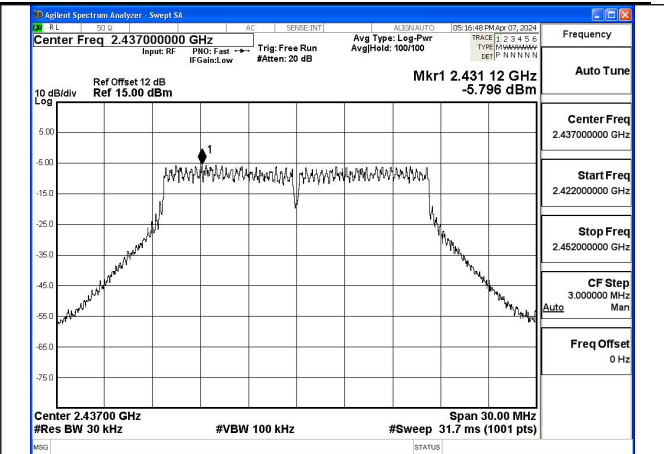
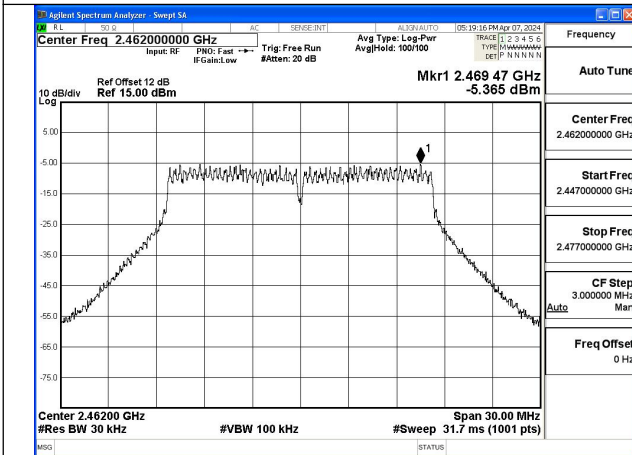




Mode:802.11g Frequency:2412MHz Ant:Chain0

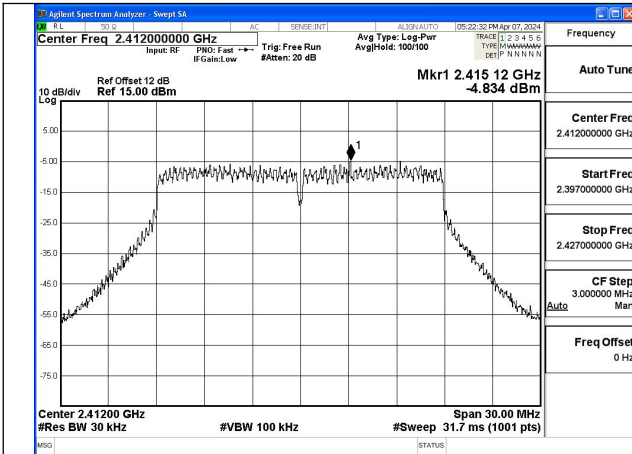


Mode:802.11g Frequency:2437MHz Ant:Chain0

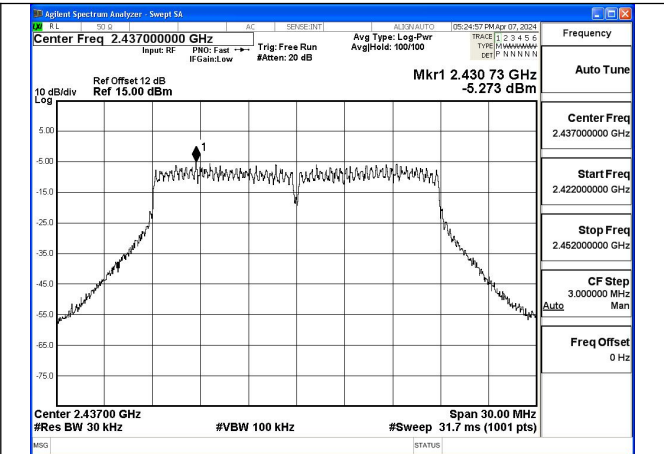


Mode:802.11g Frequency:2462MHz Ant:Chain0

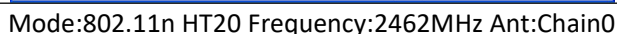
Test Mode: 802.11n HT20



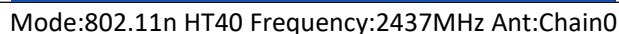
Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0



Mode:802.11n HT20 Frequency:2437MHz Ant:Chain0

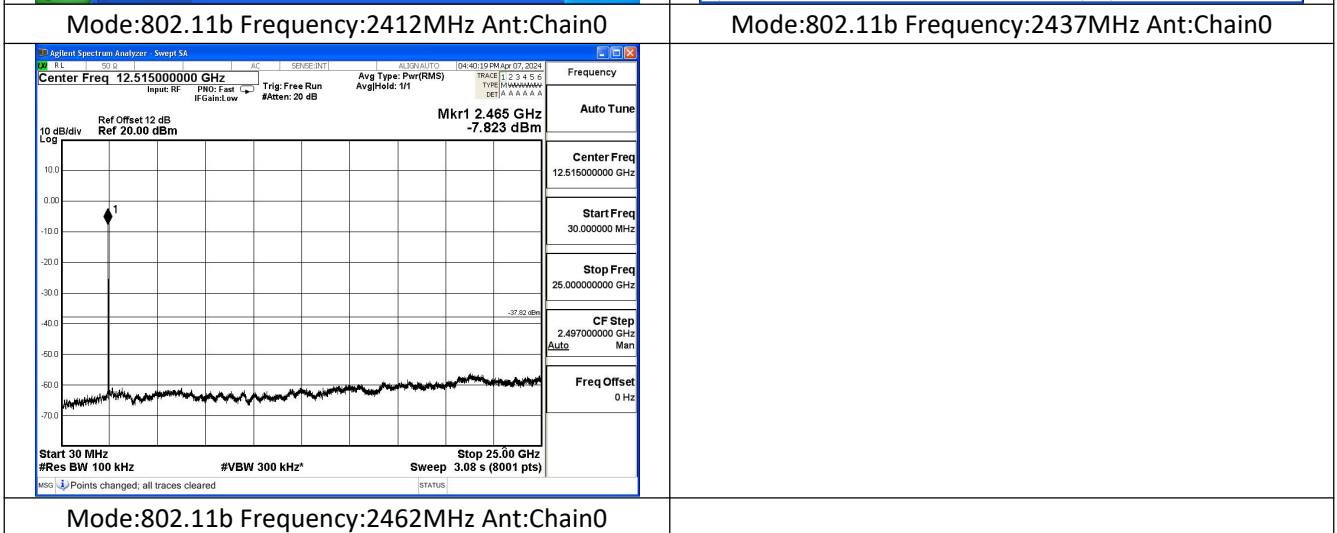
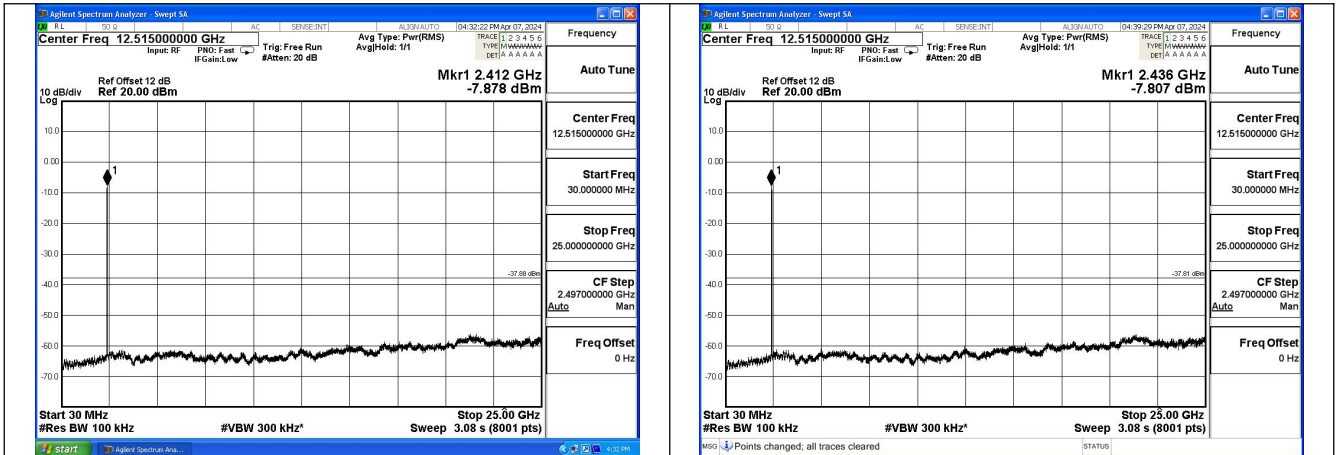


Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0

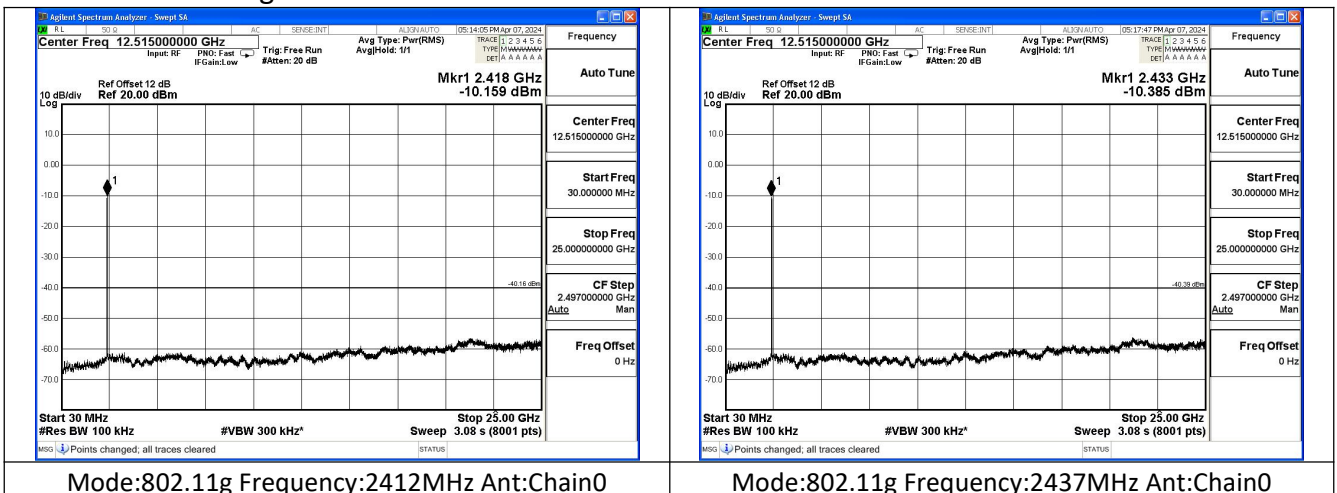


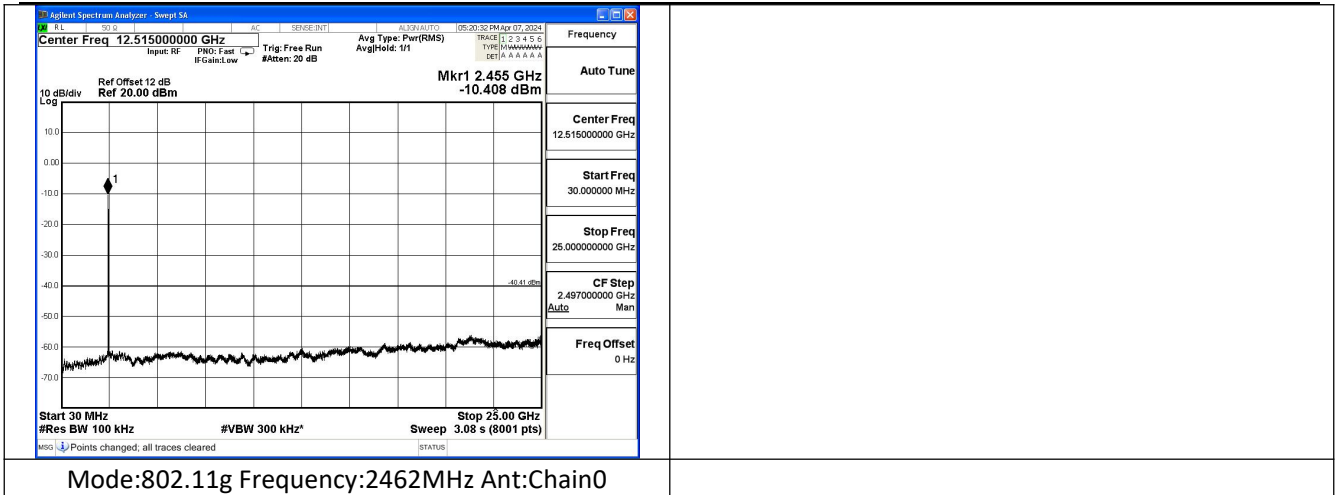
Conducted Out of band emission measurement

Test Mode: 802.11b

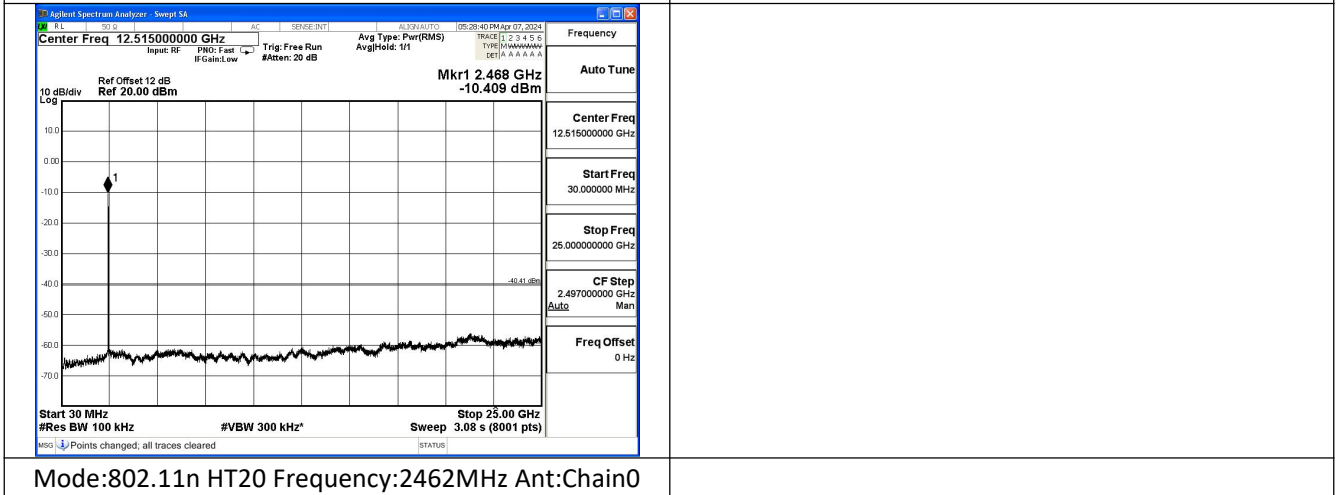
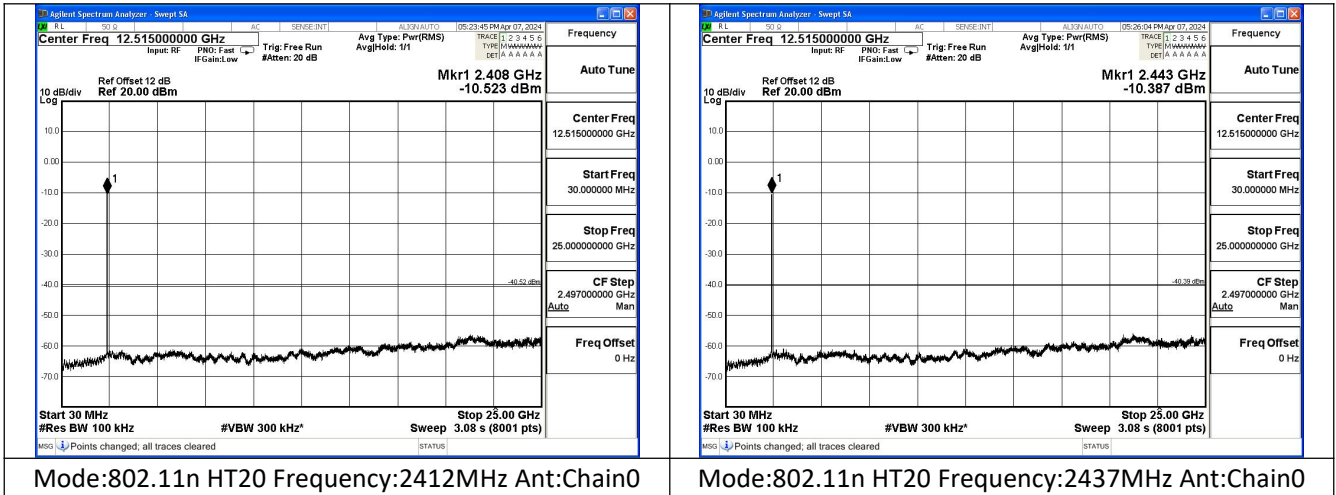


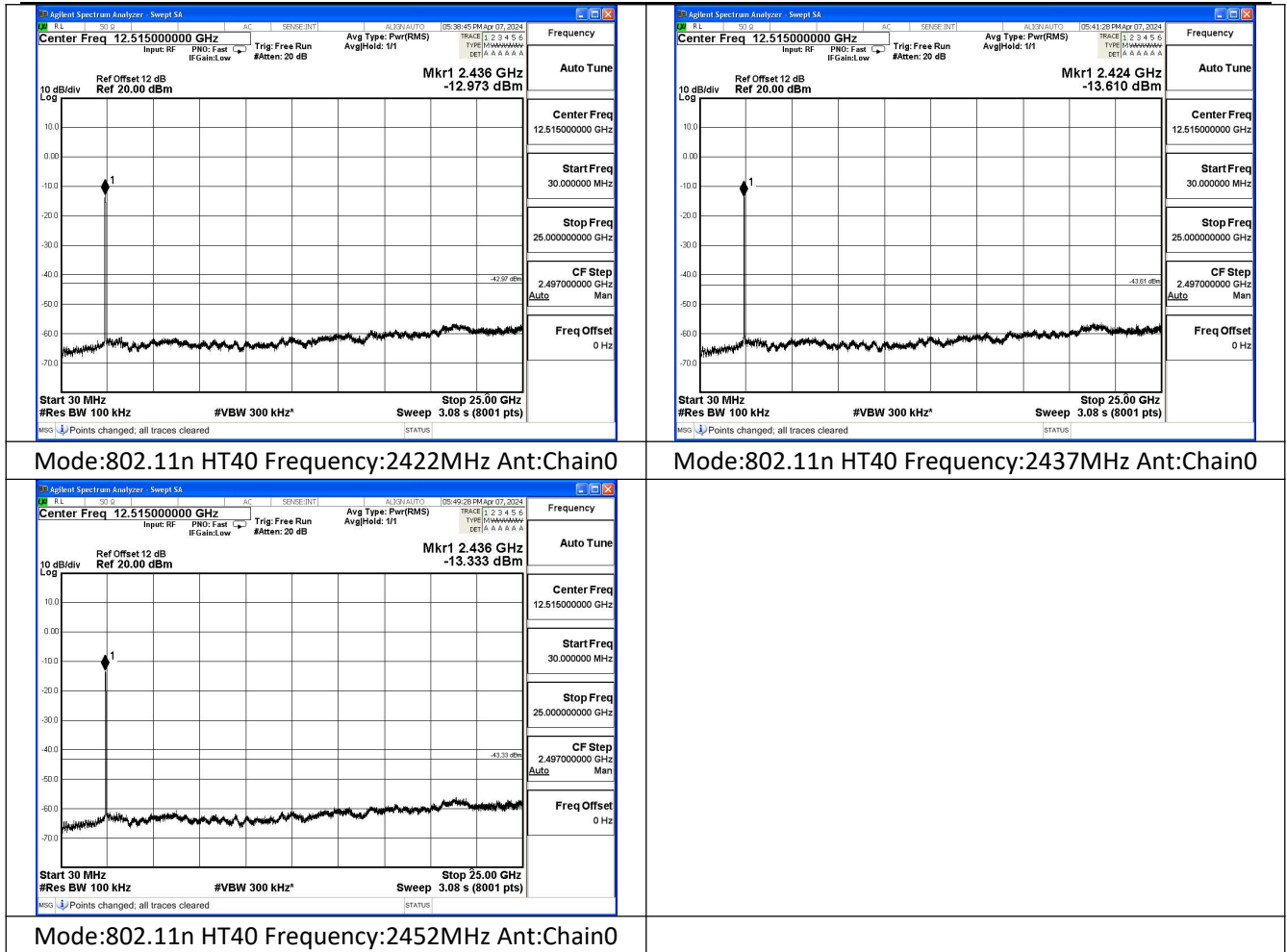
Test Mode: 802.11g





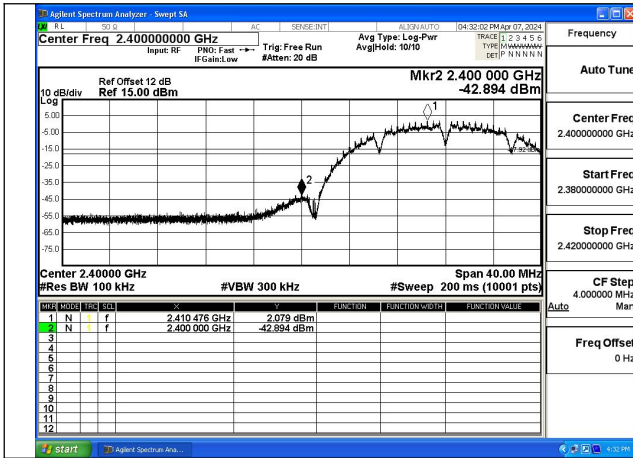
Test Mode: 802.11n HT20



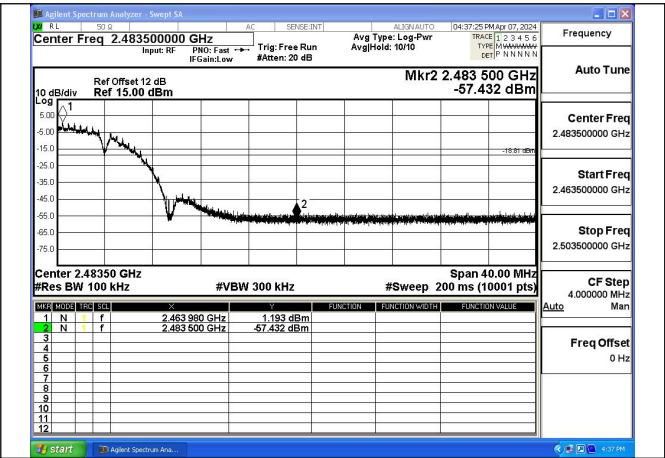


Band edge measurement

Test Mode: 802.11b

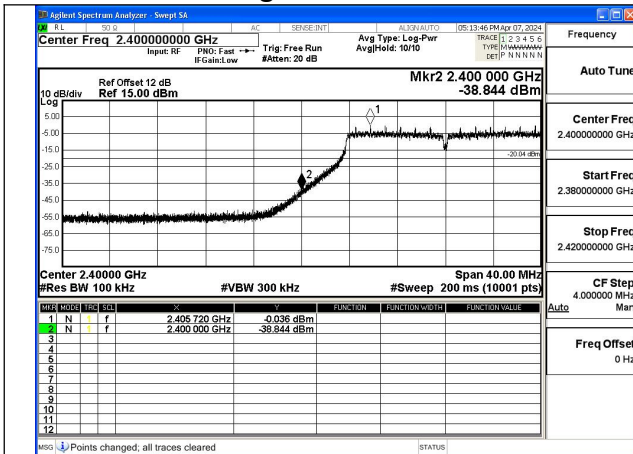


Mode:802.11b Frequency:2412MHz Ant:Chain0

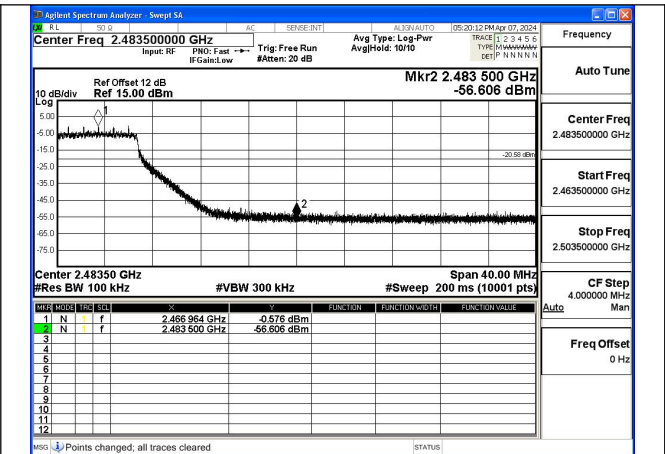


Mode:802.11b Frequency:2462MHz Ant:Chain0

Test Mode: 802.11g

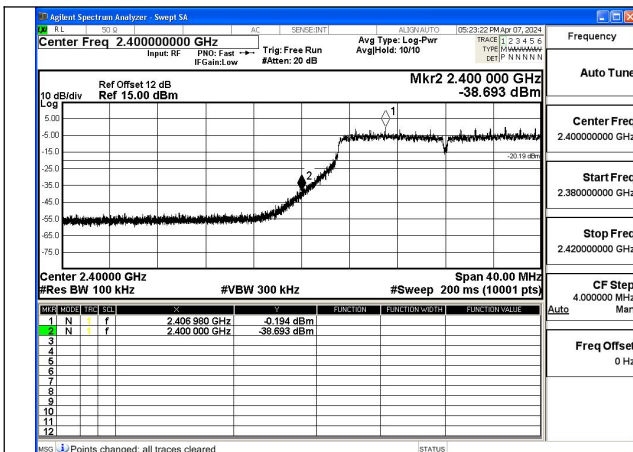


Mode:802.11g Frequency:2412MHz Ant:Chain0

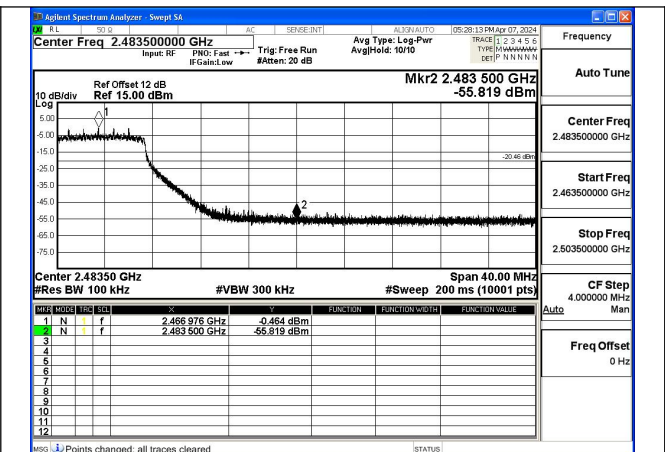


Mode:802.11g Frequency:2462MHz Ant:Chain0

Test Mode: 802.11n HT20

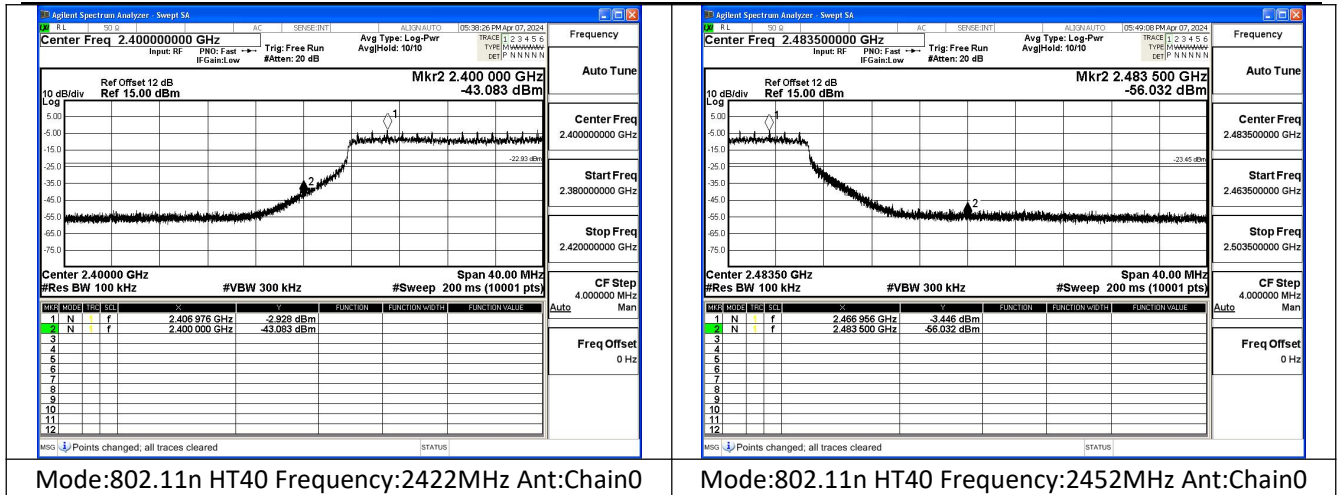


Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0



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

Test Mode: 802.11n HT40

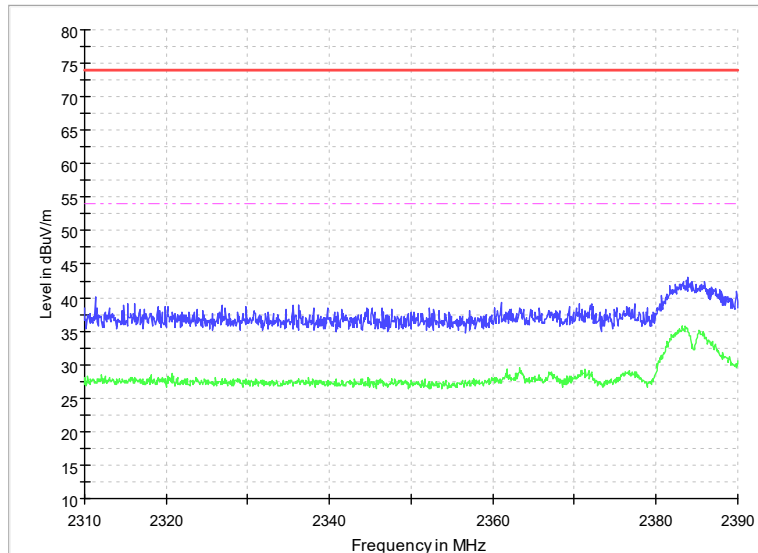


APPENDIX B – TEST DATA OF RADIATED EMISSION

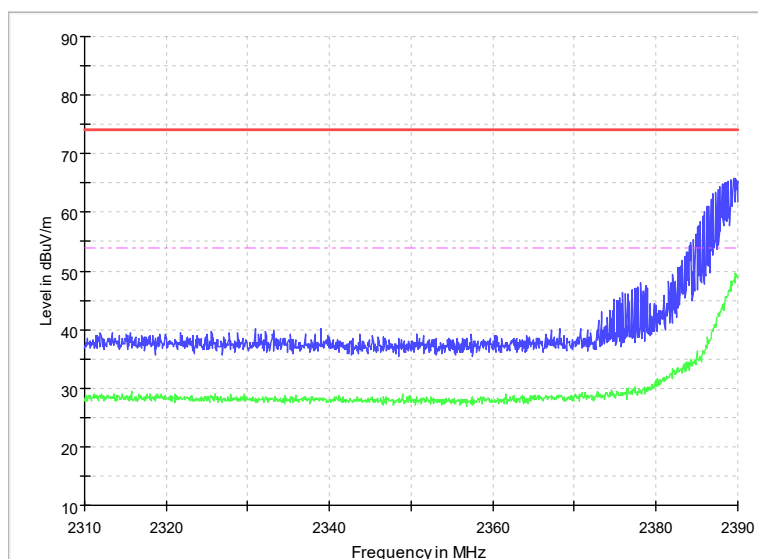
Note: The worst channel results are reflected in the report.

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

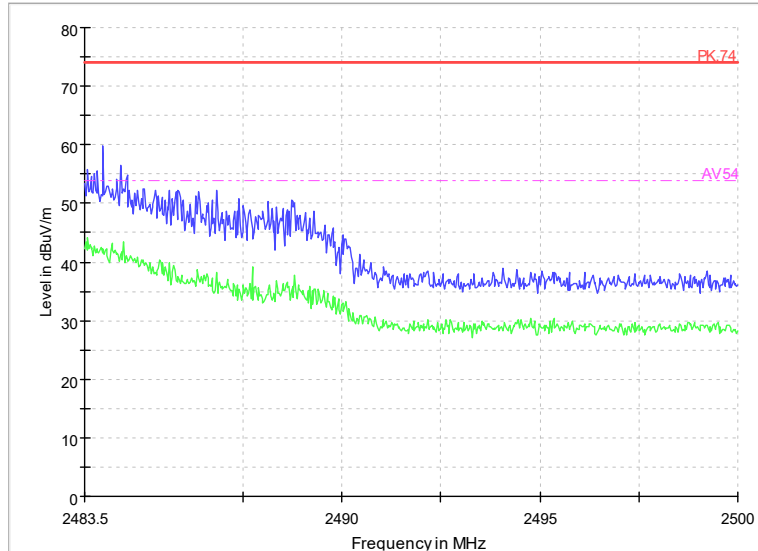


Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization: V

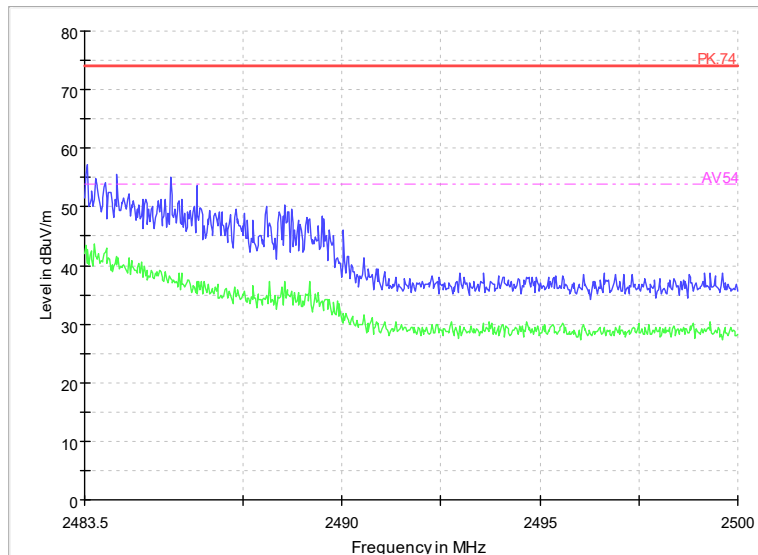


Radiated Emission Band Edge

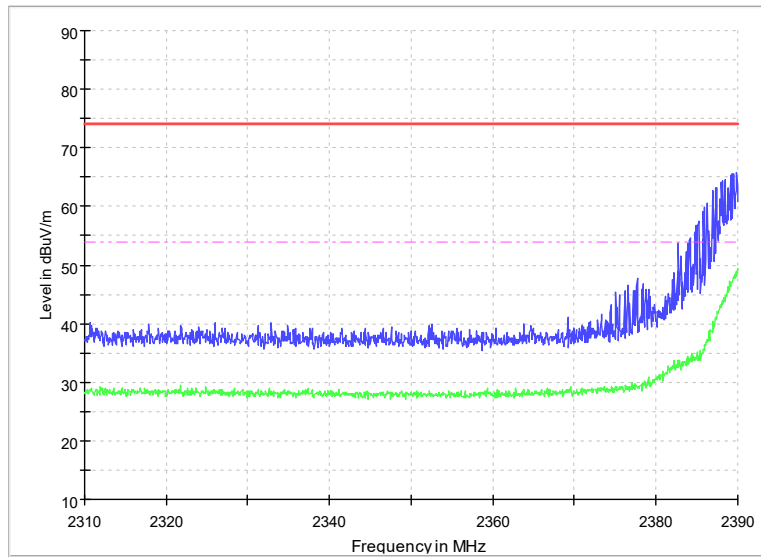
Channel No.:1
Test Mode: 802.11b
Polarization: H



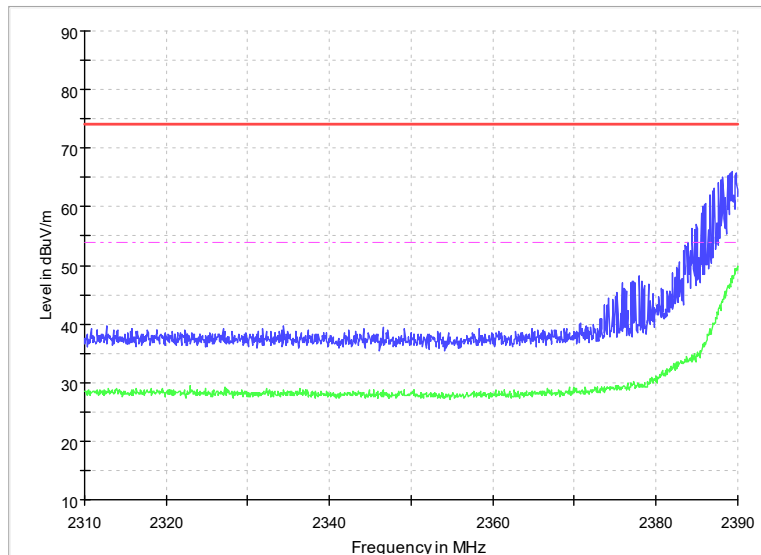
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization: V



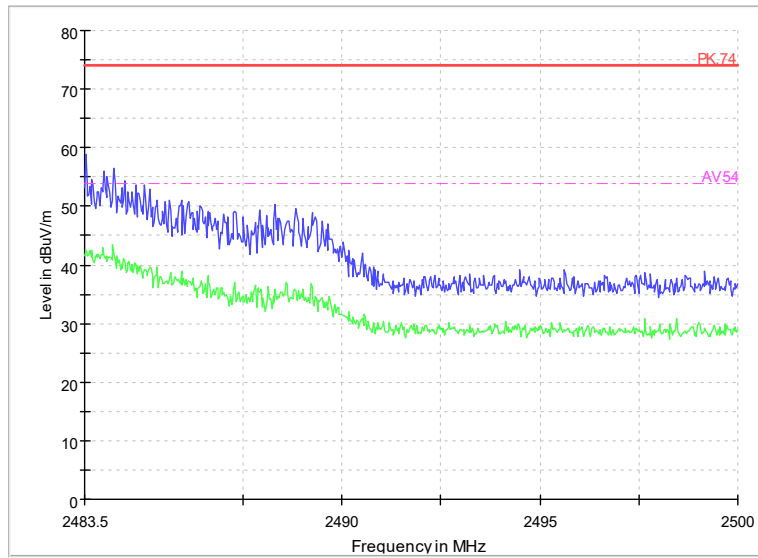
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization: H



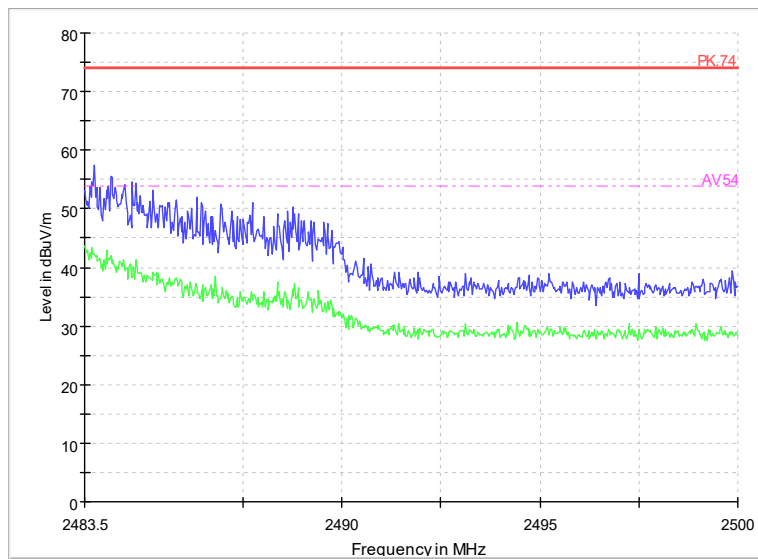
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization: V



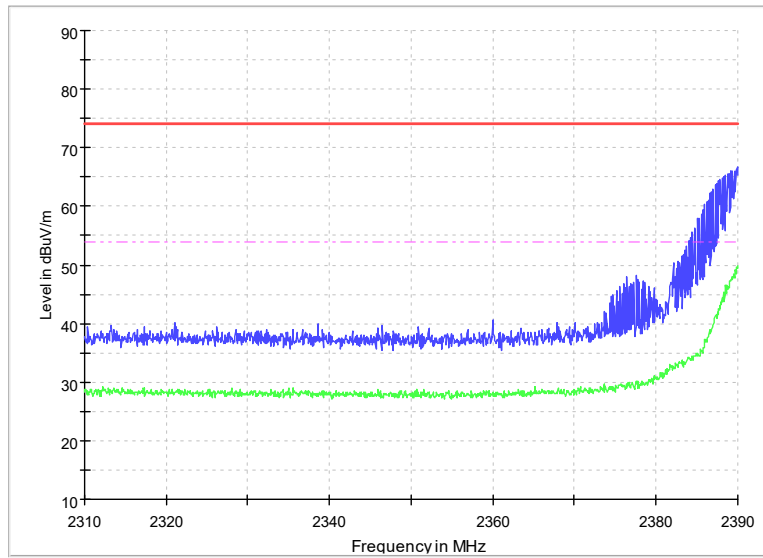
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization: H



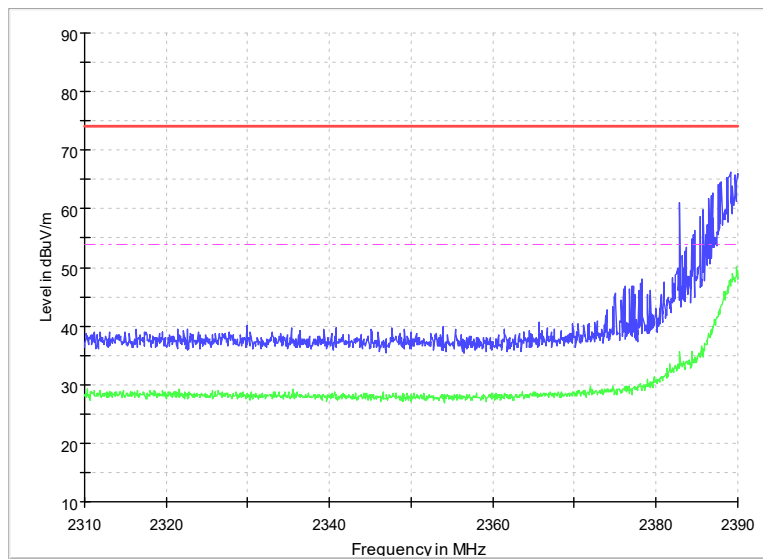
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: V



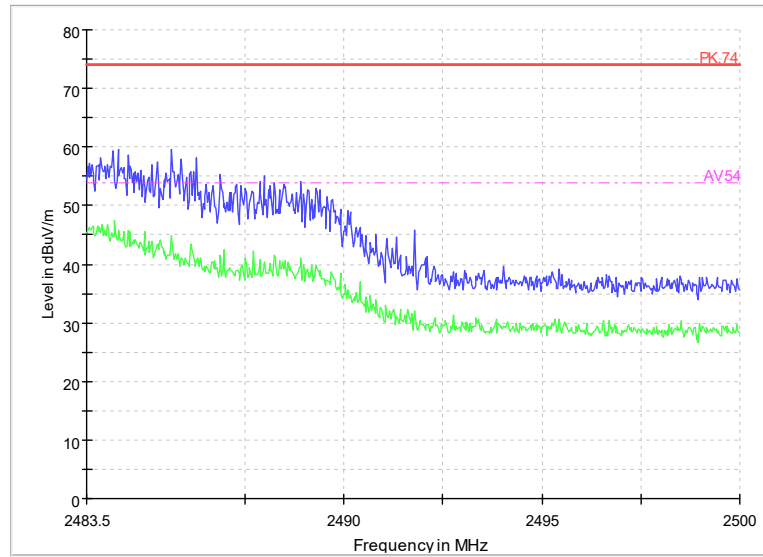
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: H



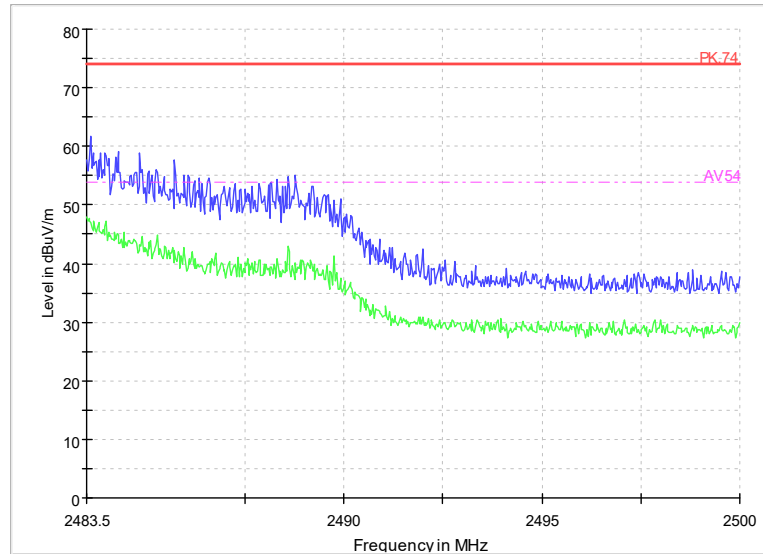
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization: V



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

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: $(24.58 \text{ dB}\mu\text{V/m}) = (43.28 \text{ dB}\mu\text{V/m}) + (-18.7 \text{ dB})$, the corresponding frequency is 39.312000MHz.

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
39.312000	24.58	40.00	15.42	-18.7	43.28	Vertical
59.682000	28.71	40.00	11.29	-19.2	47.91	Vertical
151.250000	29.35	43.50	14.15	-21.7	51.05	Vertical
176.227500	23.54	43.50	19.96	-20.5	44.04	Vertical
549.968500	31.07	46.00	14.93	-9.4	40.47	Vertical
649.975500	30.67	46.00	15.33	-7.6	38.27	Vertical

For 802.11g Channel No.:1

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
48.818000	24.79	40.00	15.21	-18.3	43.09	Vertical
59.779000	29.02	40.00	10.98	-19.2	48.22	Vertical
145.284500	28.97	43.50	14.53	-21.6	50.57	Vertical
174.869500	23.39	43.50	20.11	-20.5	43.89	Vertical
549.968500	30.68	46.00	15.32	-9.4	40.08	Vertical
649.975500	30.50	46.00	15.50	-7.6	38.10	Vertical

For 802.11n(HT20) Channel No.:1

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
46.781000	28.58	40.00	11.42	-18.3	46.88	Vertical
59.391000	31.21	40.00	8.79	-19.2	50.41	Vertical
154.645000	29.65	43.50	13.85	-21.5	51.15	Vertical
176.470000	26.19	43.50	17.31	-20.5	46.69	Vertical
549.968500	30.78	46.00	15.22	-9.4	40.18	Vertical
649.975500	30.49	46.00	15.52	-7.6	38.09	Vertical

For 802.11b Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
47.896500	26.59	40.00	13.41	-18.3	44.89	Vertical
59.051500	28.61	40.00	11.39	-19.1	47.71	Vertical
160.368000	27.86	43.50	15.64	-21.2	49.06	Vertical
178.410000	23.17	43.50	20.33	-20.4	43.57	Vertical
549.968500	30.90	46.00	15.10	-9.4	40.30	Vertical
649.975500	30.51	46.00	15.49	-7.6	38.11	Vertical

For 802.11g Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
47.217500	27.01	40.00	12.99	-18.3	45.31	Vertical
60.070000	29.05	40.00	10.95	-19.3	48.35	Vertical
149.698000	28.85	43.50	14.65	-21.7	50.55	Vertical
179.816500	22.40	43.50	21.10	-20.3	42.70	Vertical
549.968500	30.85	46.00	15.15	-9.4	40.25	Vertical
649.975500	30.11	46.00	15.89	-7.6	37.71	Vertical

For 802.11n(HT20) Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
48.818000	25.38	40.00	14.62	-18.3	43.68	Vertical
59.439500	28.90	40.00	11.10	-19.2	48.10	Vertical
159.301000	28.38	43.50	15.12	-21.3	49.68	Vertical
176.809500	23.45	43.50	20.05	-20.5	43.95	Vertical
549.968500	30.68	46.00	15.32	-9.4	40.08	Vertical
649.975500	30.22	46.00	15.78	-7.6	37.82	Vertical

For 802.11b Channel No.:11

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
47.072000	27.10	40.00	12.90	-18.3	45.40	Vertical
58.954500	28.48	40.00	11.52	-19.1	47.58	Vertical
147.515500	28.57	43.50	14.93	-21.6	50.17	Vertical
175.015000	23.20	43.50	20.30	-20.5	43.70	Vertical
549.968500	30.75	46.00	15.25	-9.4	40.15	Vertical
649.975500	29.97	46.00	16.03	-7.6	37.57	Vertical

For 802.11g Channel No.:11

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
46.781000	26.64	40.00	13.36	-18.3	44.94	Vertical

61.185500	26.93	40.00	13.07	-19.5	46.43	Vertical
157.409500	27.86	43.50	15.64	-21.4	49.26	Vertical
177.003500	23.34	43.50	20.16	-20.5	43.84	Vertical
549.968500	31.26	46.00	14.74	-9.4	40.66	Vertical
649.975500	30.37	46.00	15.63	-7.6	37.97	Vertical

For 802.11n(HT20) Channel No.:11

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
47.266000	27.09	40.00	12.91	-18.3	45.39	Vertical
59.633500	28.72	40.00	11.28	-19.2	47.92	Vertical
145.187500	28.66	43.50	14.84	-21.6	50.26	Vertical
174.045000	22.97	43.50	20.53	-20.6	43.57	Vertical
549.968500	30.87	46.00	15.13	-9.4	40.27	Vertical
649.975500	30.40	46.00	15.60	-7.6	38.00	Vertical

For 802.11n(HT40) Channel No.:3

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
38.487500	24.27	40.00	15.73	-18.9	43.17	Vertical
58.906000	28.11	40.00	11.89	-19.1	47.21	Vertical
126.078500	27.33	43.50	16.17	-20.4	47.73	Vertical
190.098500	24.25	43.50	19.25	-19.4	43.65	Vertical
351.167000	29.05	46.00	16.95	-14.3	43.35	Vertical
649.975500	27.39	46.00	18.61	-7.6	34.99	Vertical

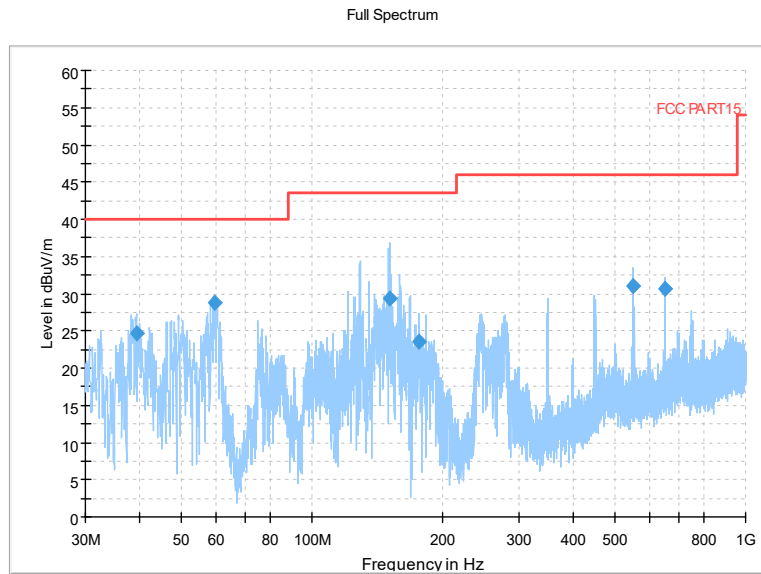
For 802.11n(HT40) Channel No.:6

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
46.878000	26.36	40.00	13.64	-18.3	44.66	Vertical
58.663500	27.93	40.00	12.07	-19.1	47.03	Vertical
148.049000	28.42	43.50	15.08	-21.7	50.12	Vertical
176.130500	23.71	43.50	19.79	-20.5	44.21	Vertical
351.167000	29.09	46.00	16.91	-14.3	43.39	Vertical
649.975500	27.39	46.00	18.61	-7.6	34.99	Vertical

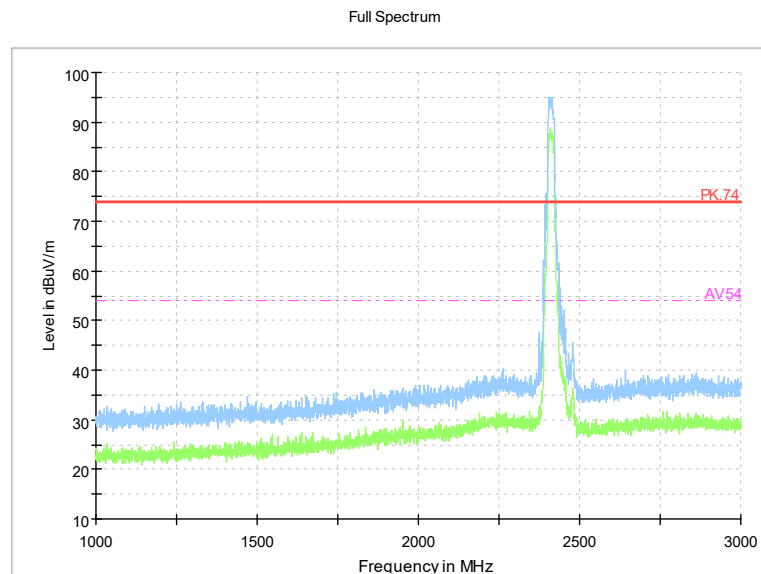
For 802.11n(HT40) Channel No.:9

Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	ARpl (dB/m)	Pmea (dBuV)	Polarity
48.769500	24.58	40.00	15.42	-18.3	42.88	Vertical
58.130000	27.04	40.00	12.96	-19.1	46.14	Vertical
157.118500	25.83	43.50	17.67	-21.4	47.23	Vertical
187.576500	23.61	43.50	19.89	-19.6	43.21	Vertical
351.167000	29.08	46.00	16.92	-14.3	43.38	Vertical
649.975500	27.40	46.00	18.60	-7.6	35.00	Vertical

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

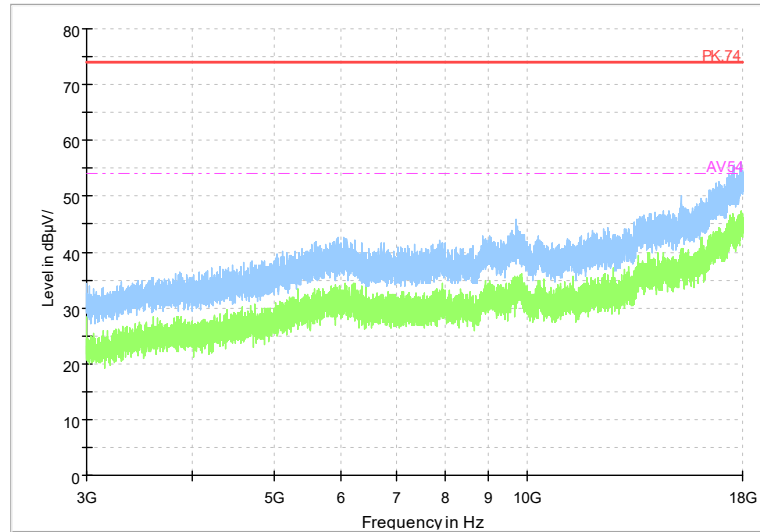


Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b



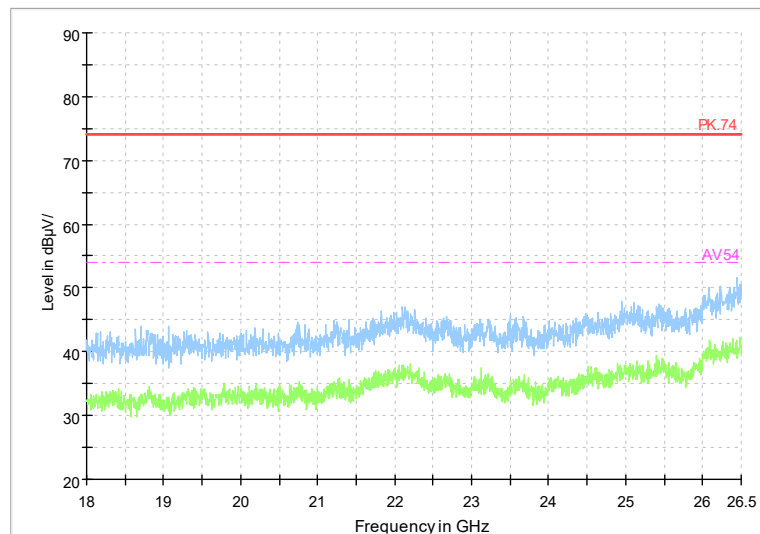
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



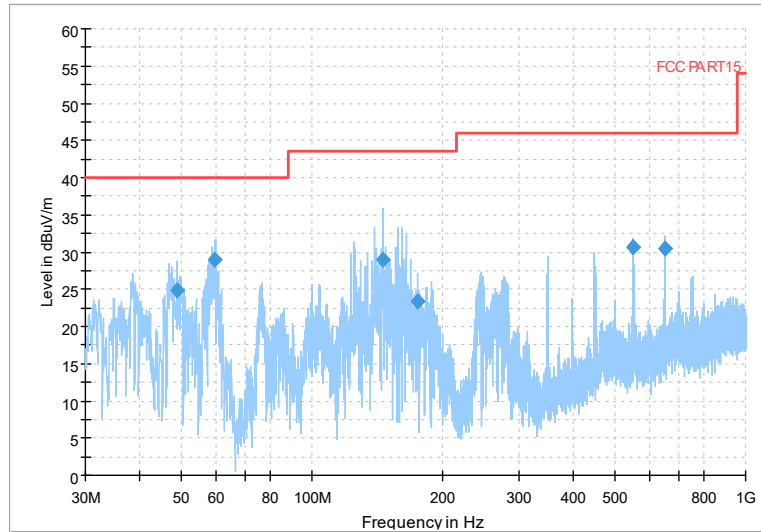
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



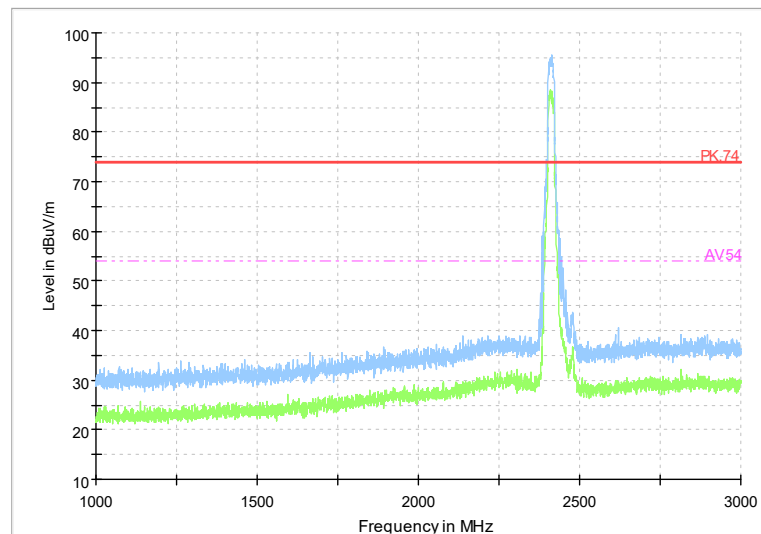
Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



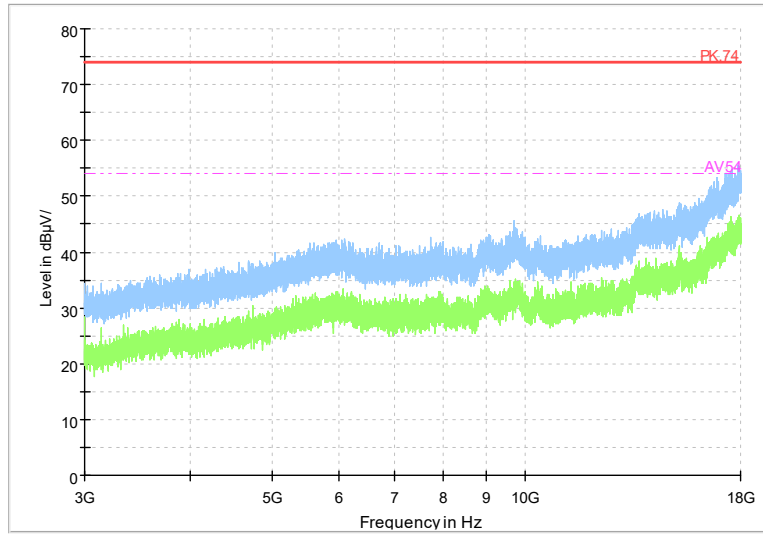
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

Full Spectrum



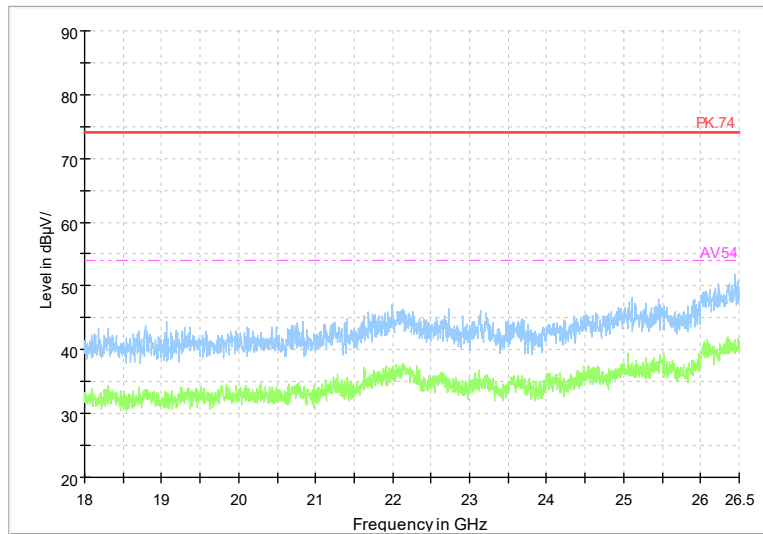
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



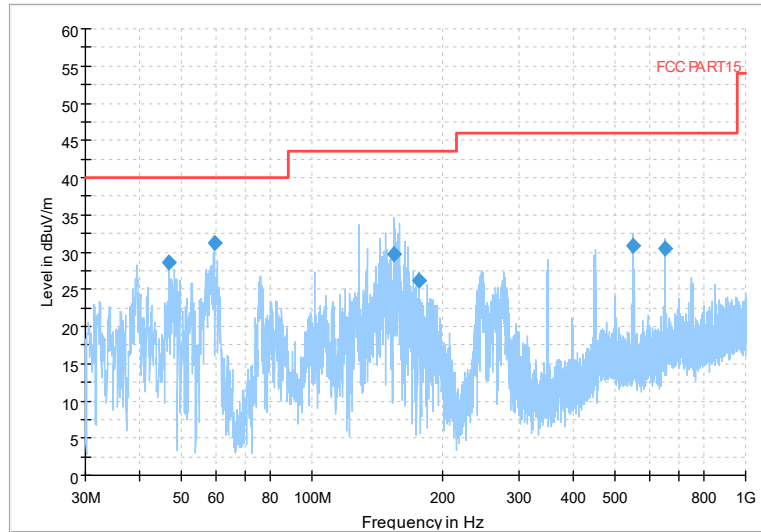
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



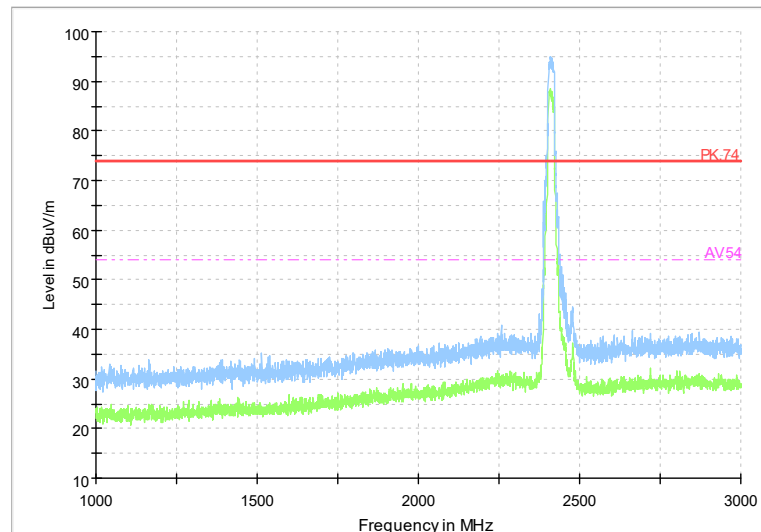
Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



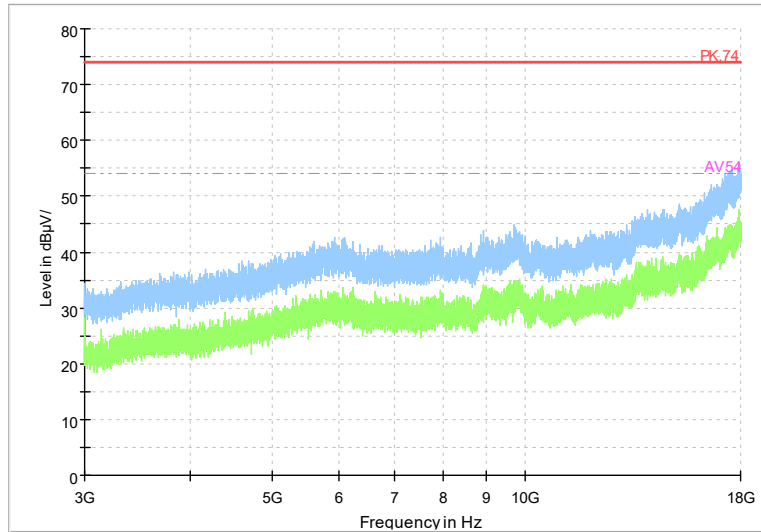
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11n(HT20)

Full Spectrum



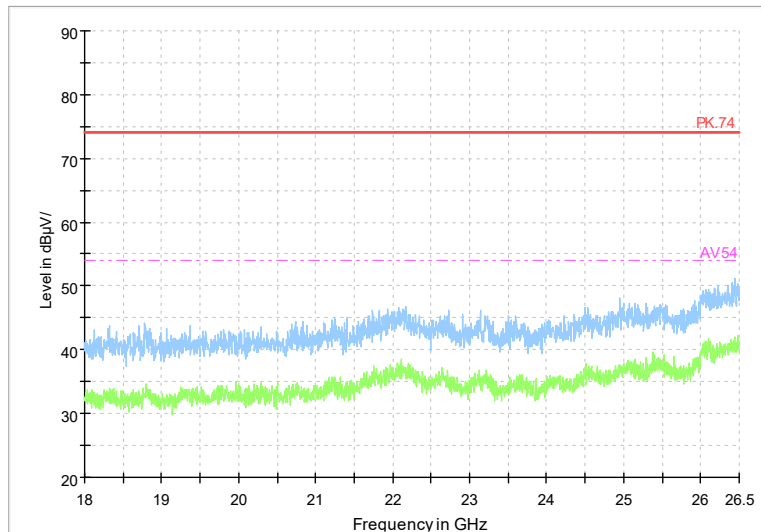
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Full Spectrum



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

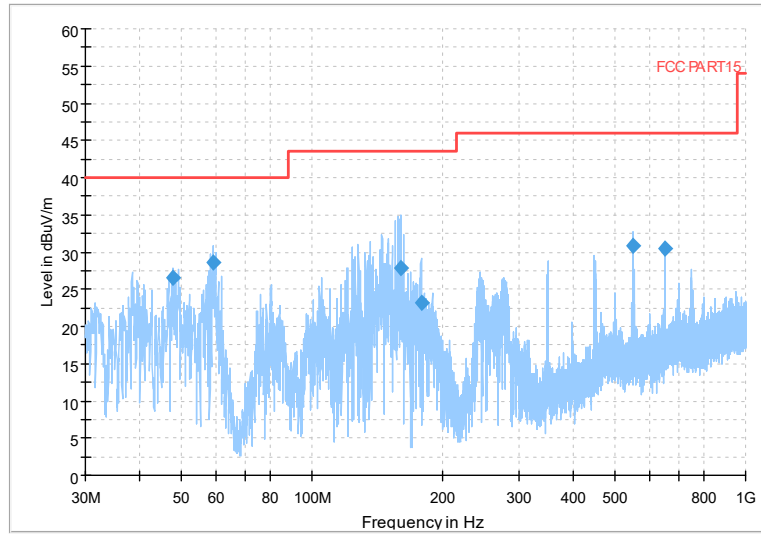
Full Spectrum



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

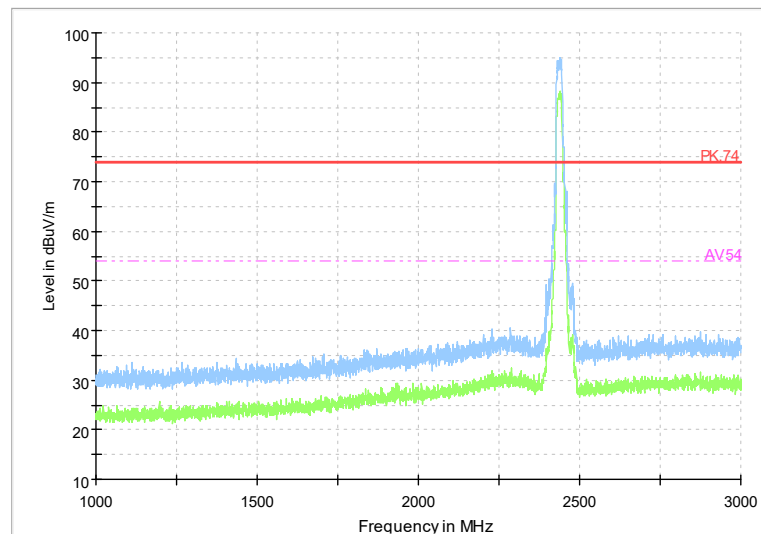
Carrier frequency (MHz): 2437
Channel No.:6

Full Spectrum



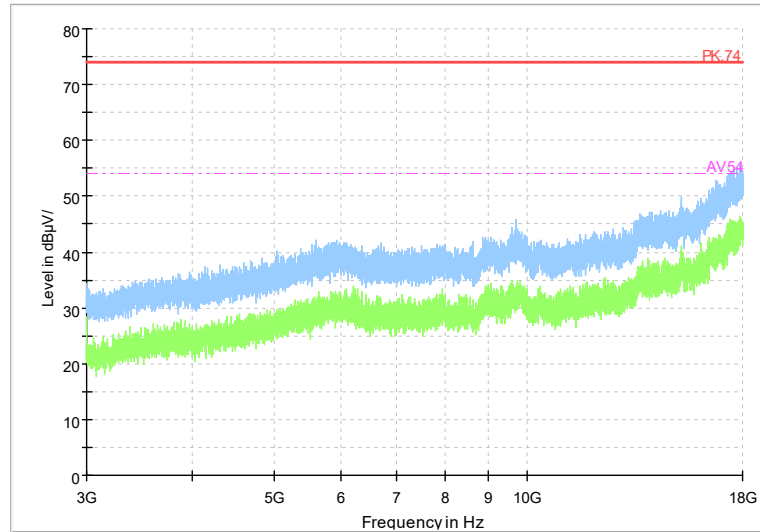
Frequency Range: 30MHz -1GHz
Detector: QP mode
Test Mode: 802.11b

Full Spectrum



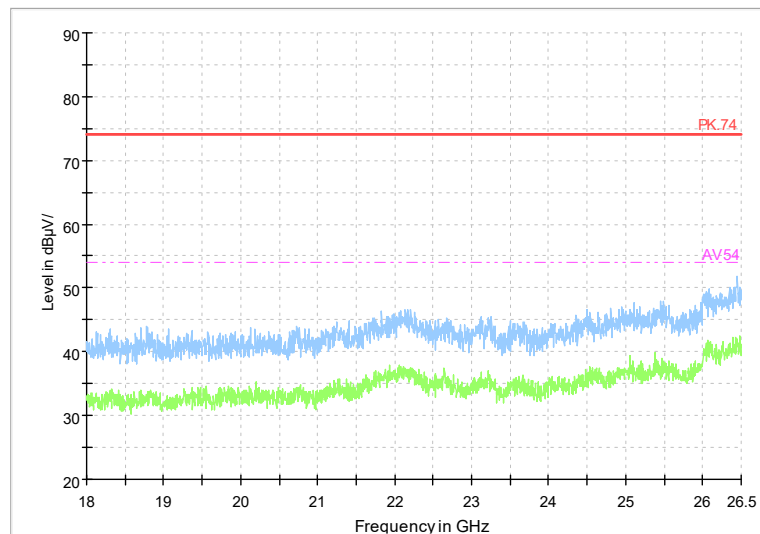
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



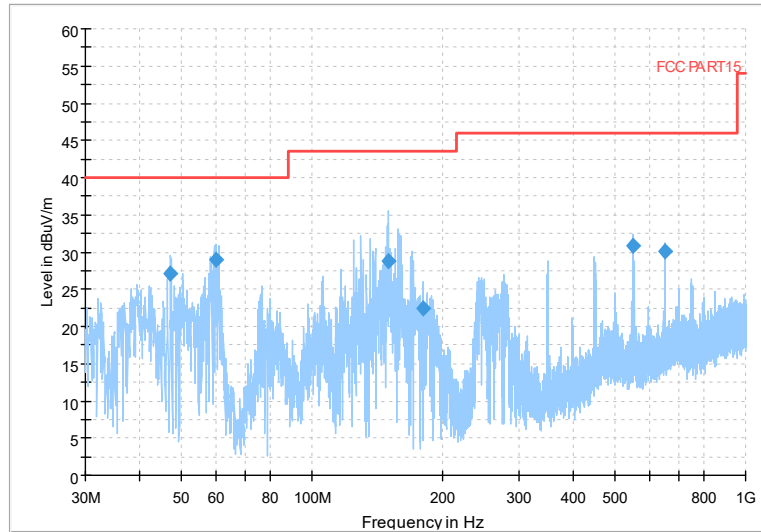
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



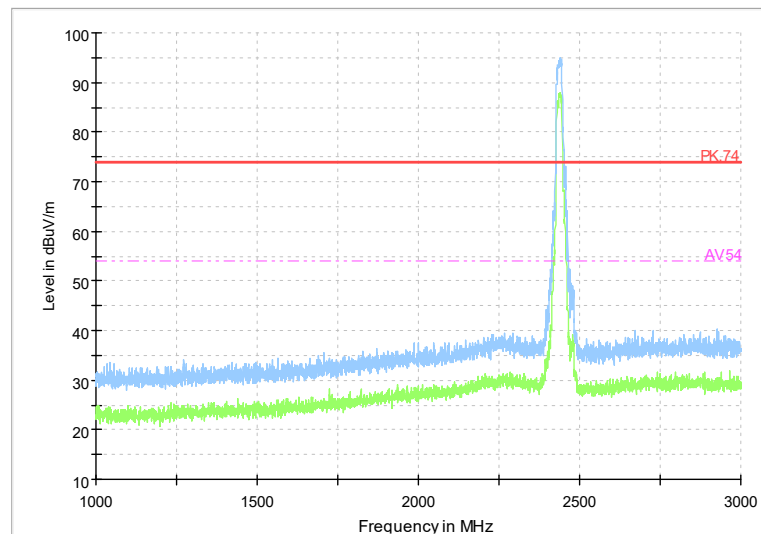
Frequency Range: 18GHz -25GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



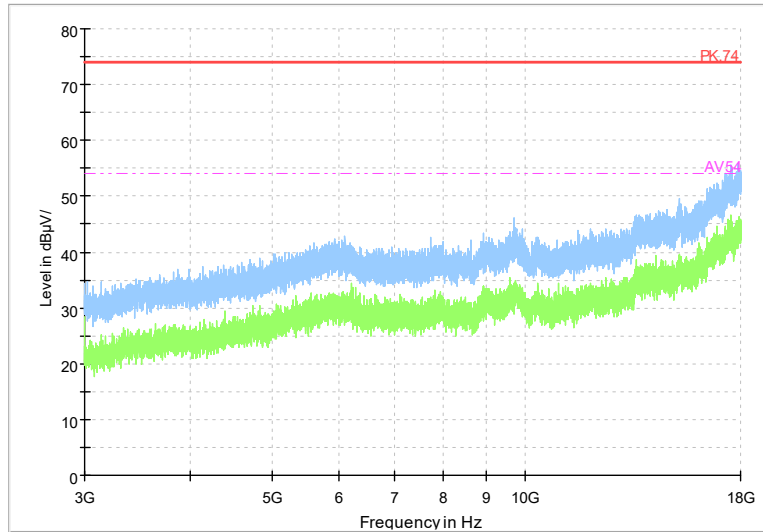
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

Full Spectrum



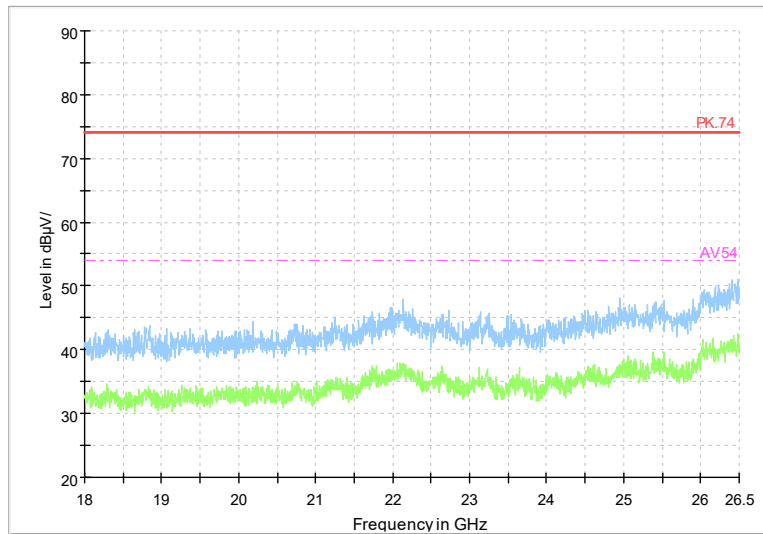
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

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