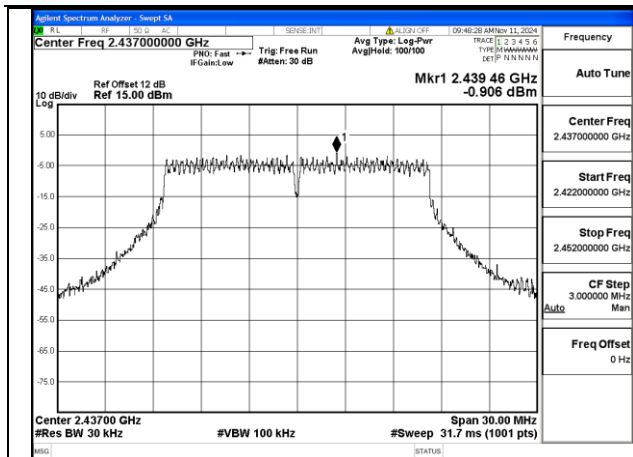
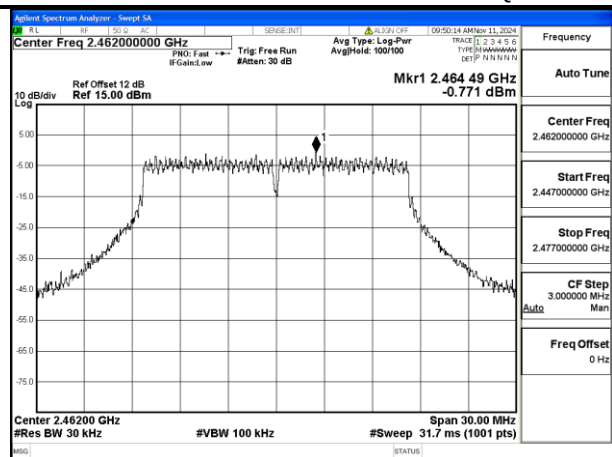


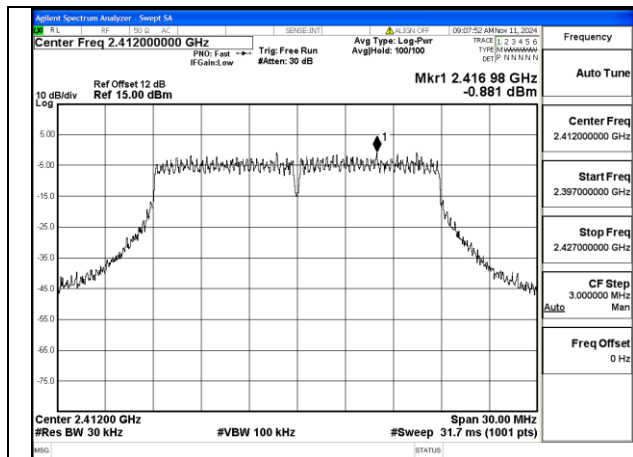


Mode:802.11g Frequency:2437MHz Ant:Chain1

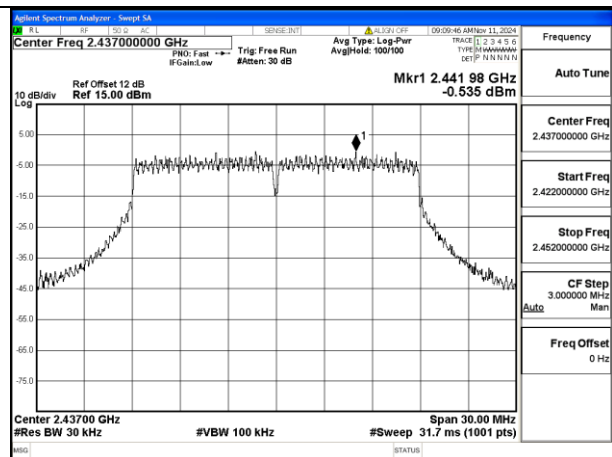


Mode:802.11g Frequency:2462MHz Ant:Chain1

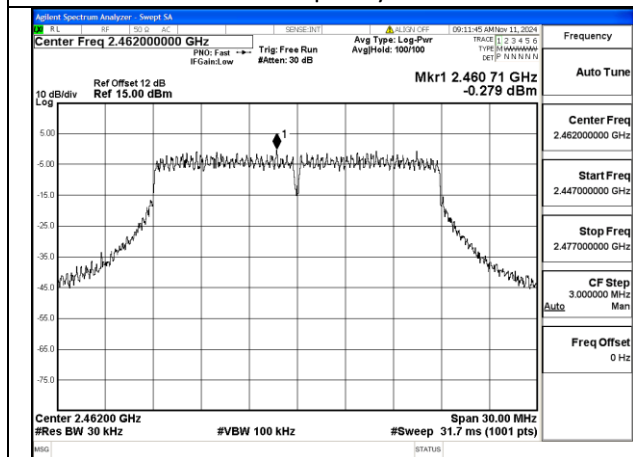
Test Mode: 802.11n HT20



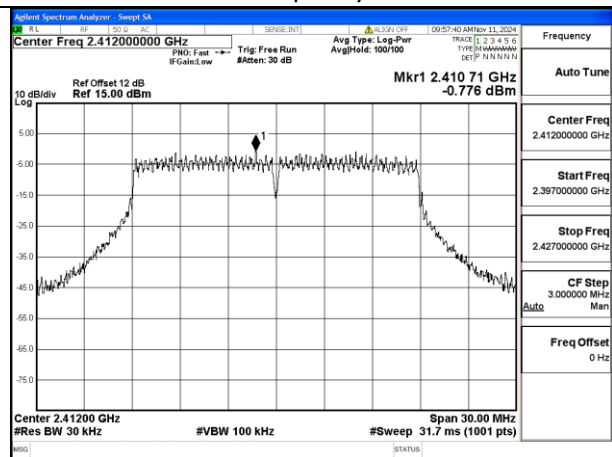
Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0



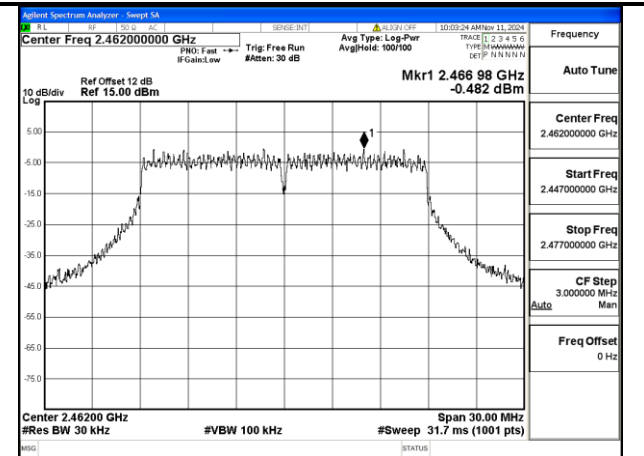
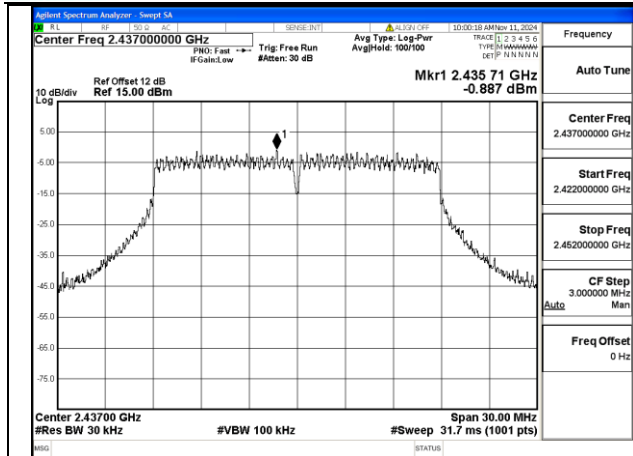
Mode:802.11n HT20 Frequency:2437MHz Ant:Chain0



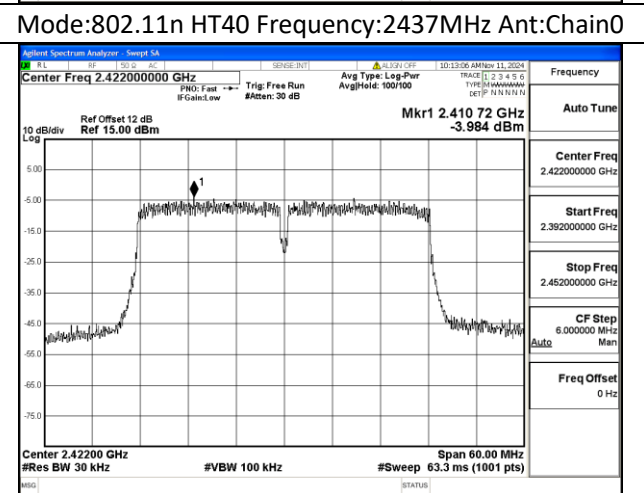
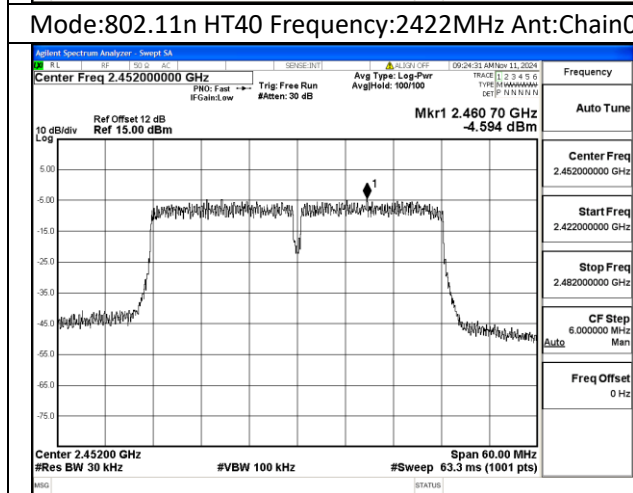
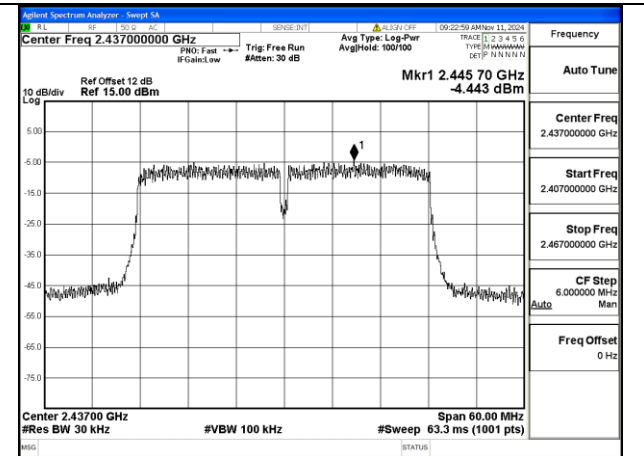
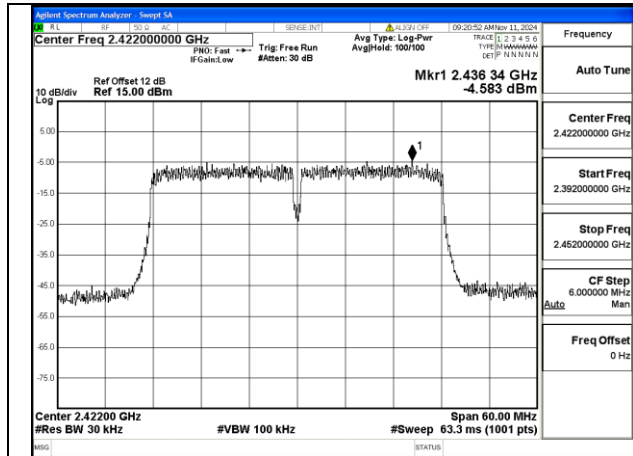
Mode:802.11n HT20 Frequency:2462MHz Ant:Chain0

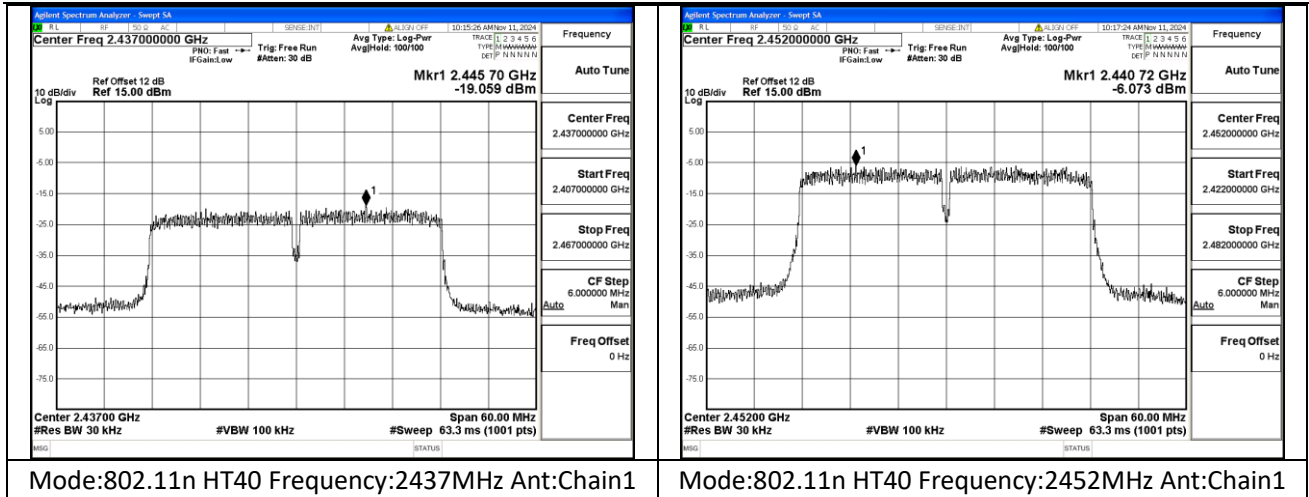


Mode:802.11n HT20 Frequency:2412MHz Ant:Chain1



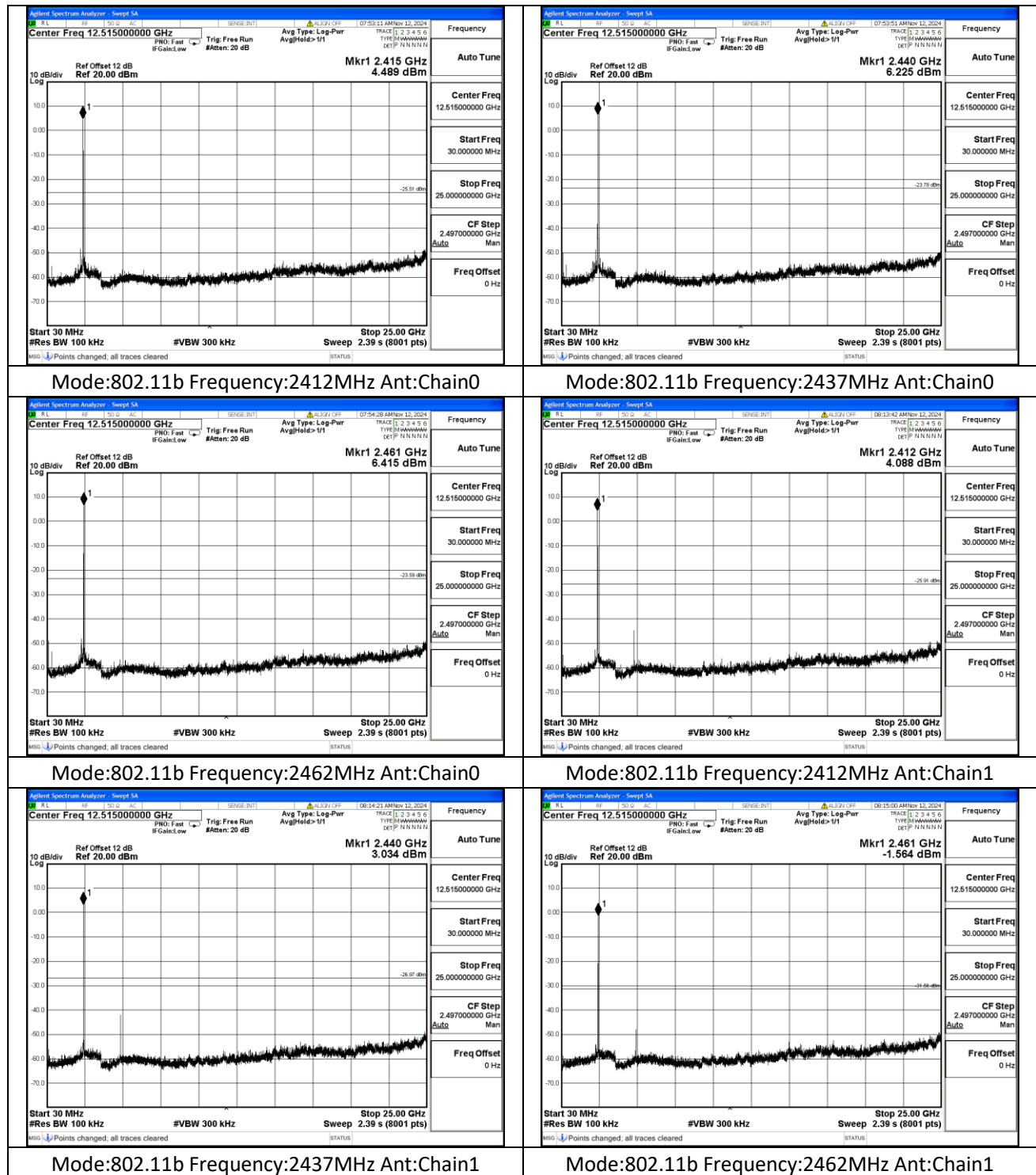
Test Mode: 802.11n HT40



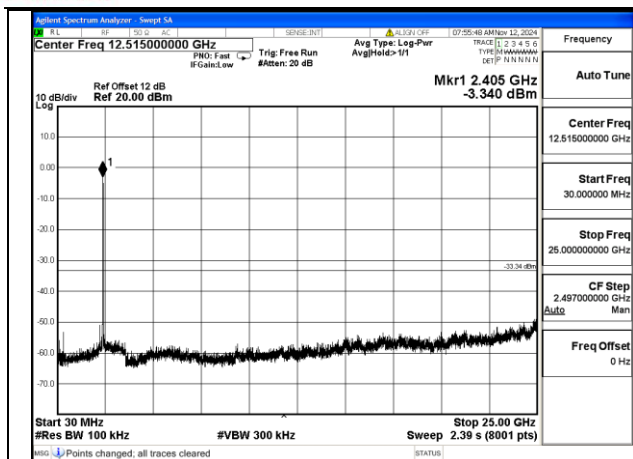


Conducted Out of band emission measurement

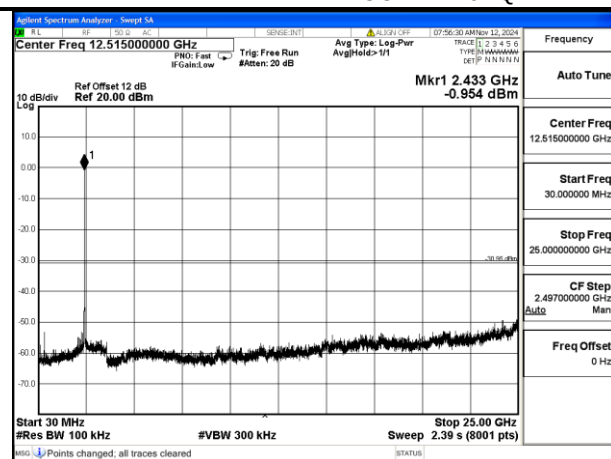
Test Mode: 802.11b



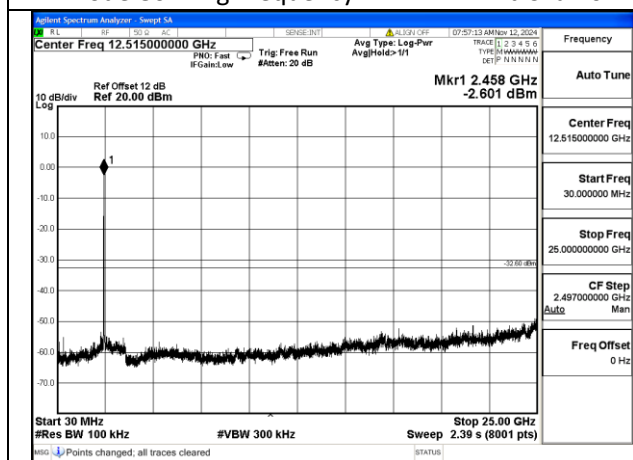
Test Mode: 802.11g



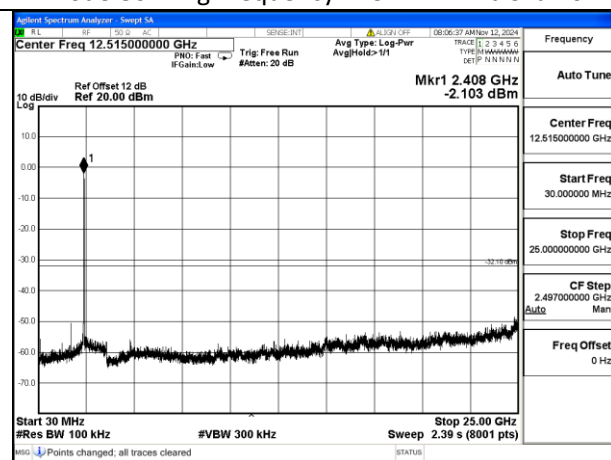
Mode:802.11g Frequency:2412MHz Ant:Chain0



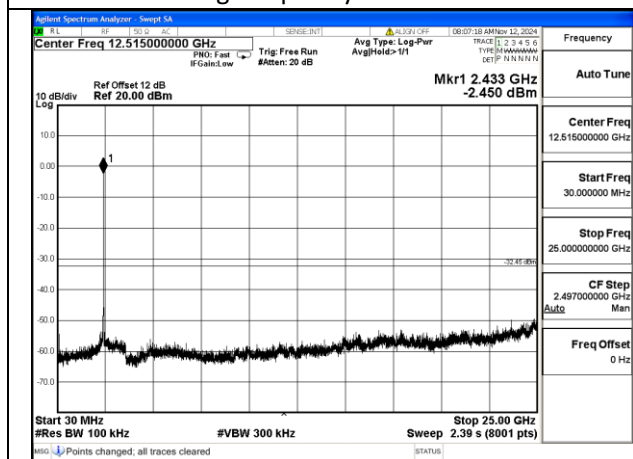
Mode:802.11g Frequency:2437MHz Ant:Chain0



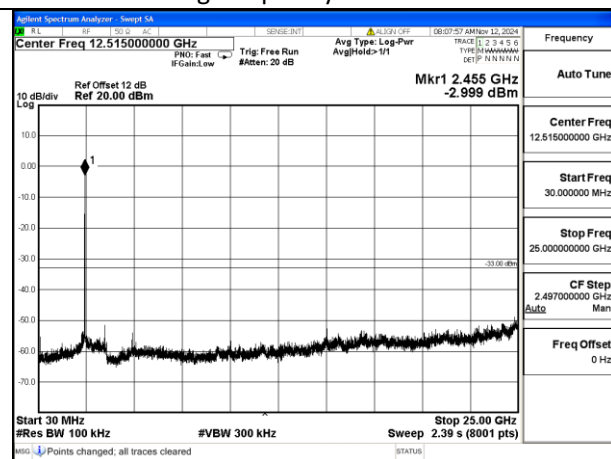
Mode:802.11g Frequency:2462MHz Ant:Chain0



Mode:802.11g Frequency:2412MHz Ant:Chain1

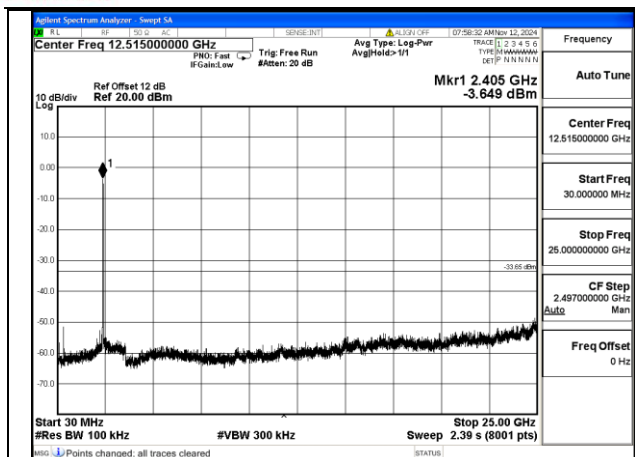


Mode:802.11g Frequency:2437MHz Ant:Chain1

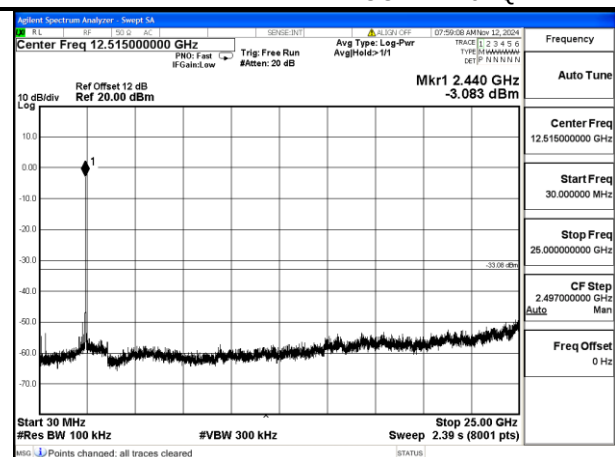


Mode:802.11g Frequency:2462MHz Ant:Chain1

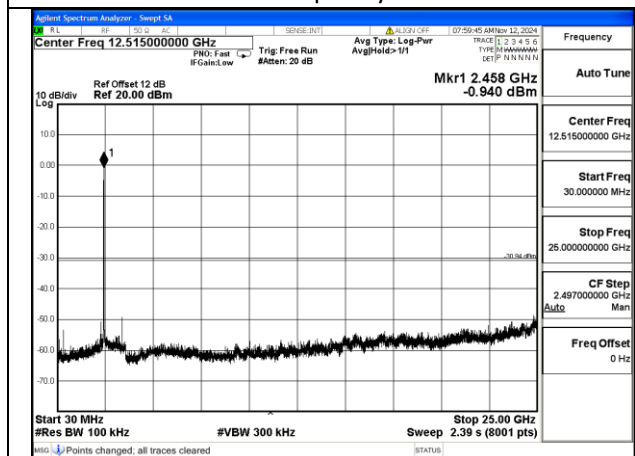
Test Mode: 802.11n HT20



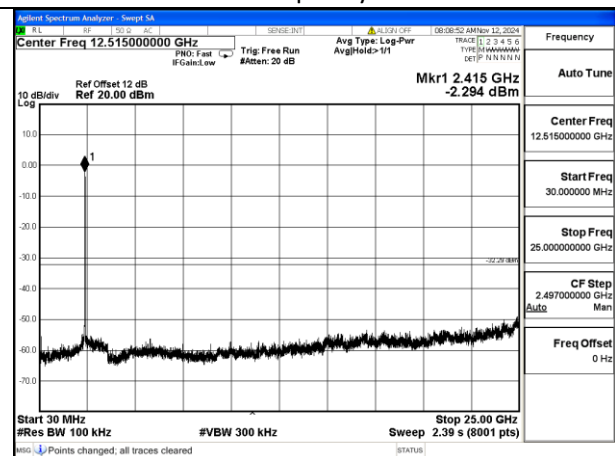
Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0



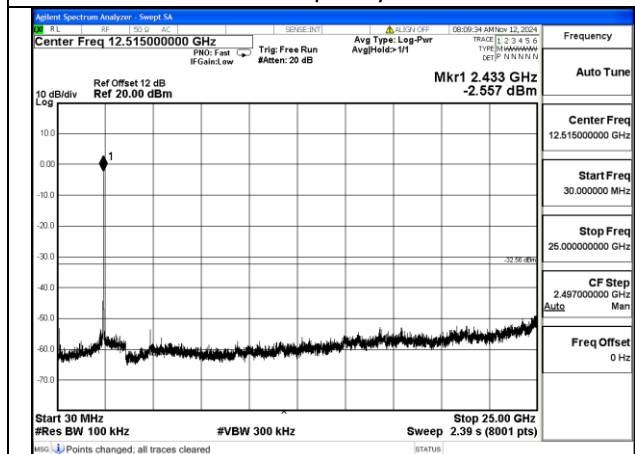
Mode:802.11n HT20 Frequency:2437MHz Ant:Chain0



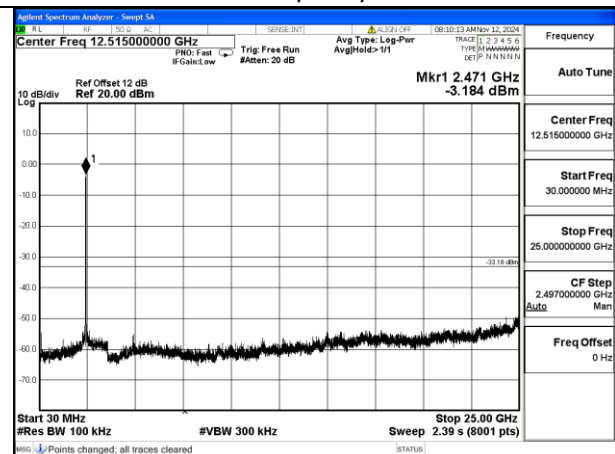
Mode:802.11n HT20 Frequency:2462MHz Ant:Chain0



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

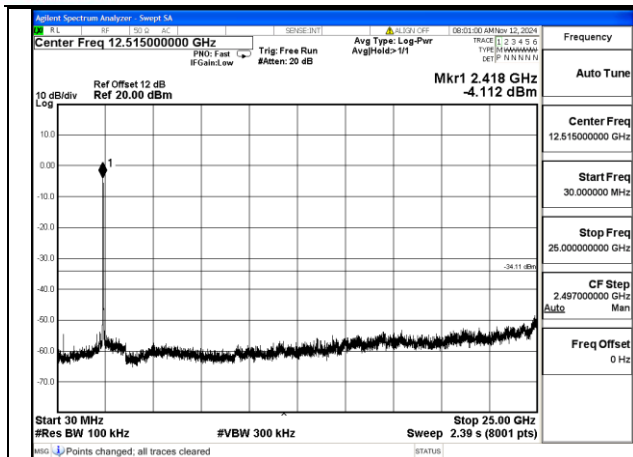


Mode:802.11n HT20 Frequency:2437MHz Ant:Chain1

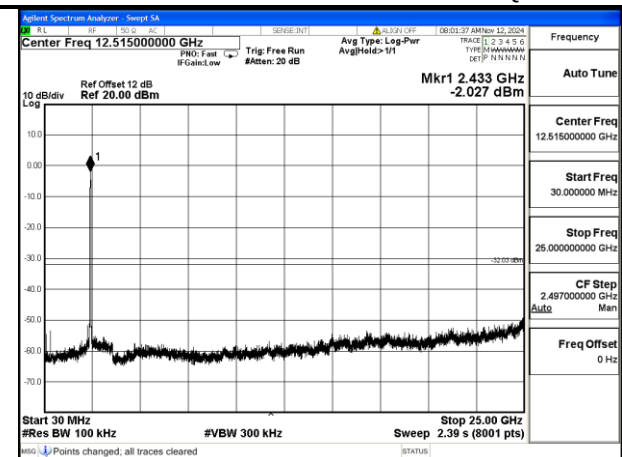


Mode:802.11n HT20 Frequency:2462MHz Ant:Chain1

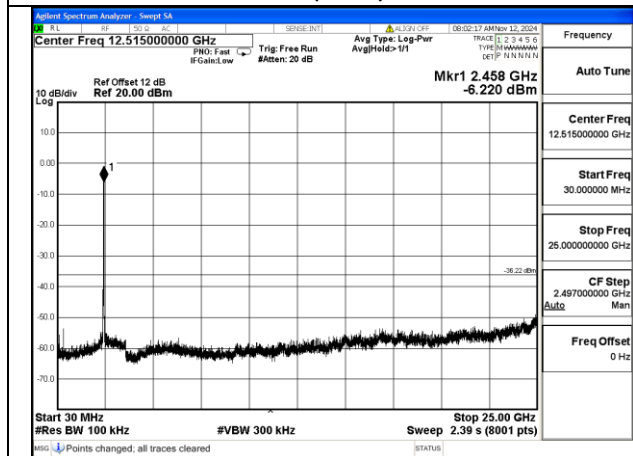
Test Mode: 802.11n HT40



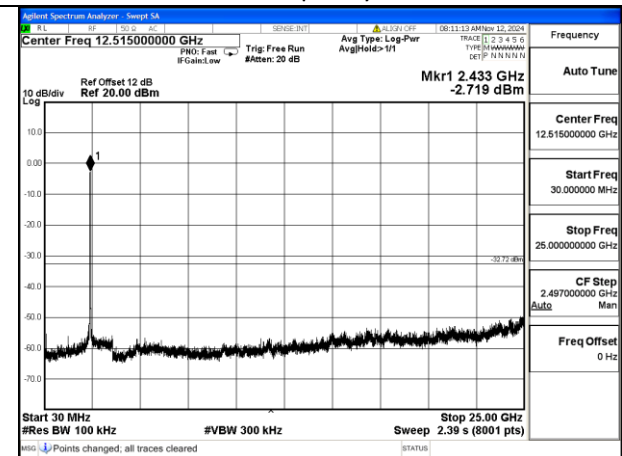
Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0



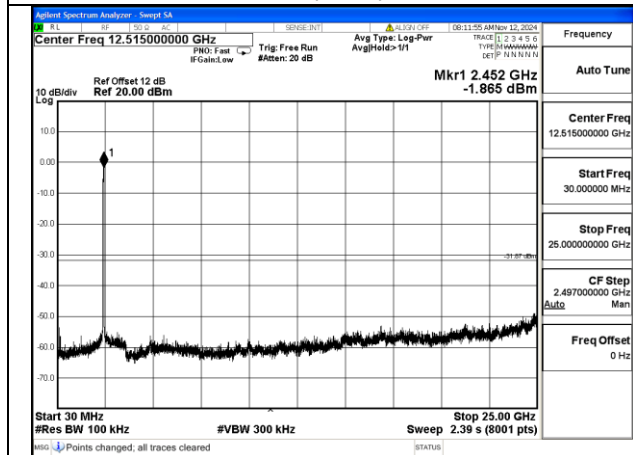
Mode:802.11n HT40 Frequency:2437MHz Ant:Chain0



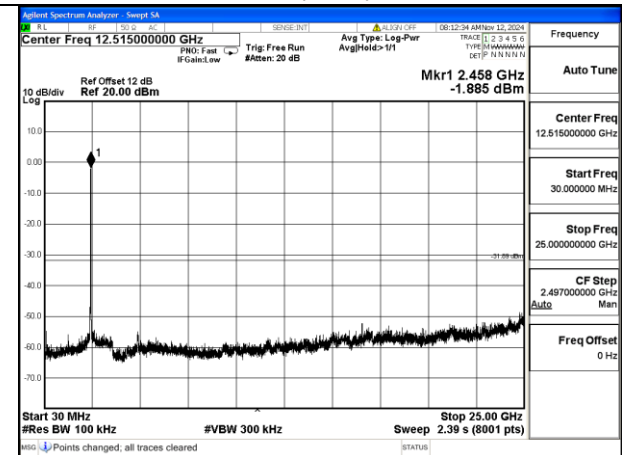
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain0



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



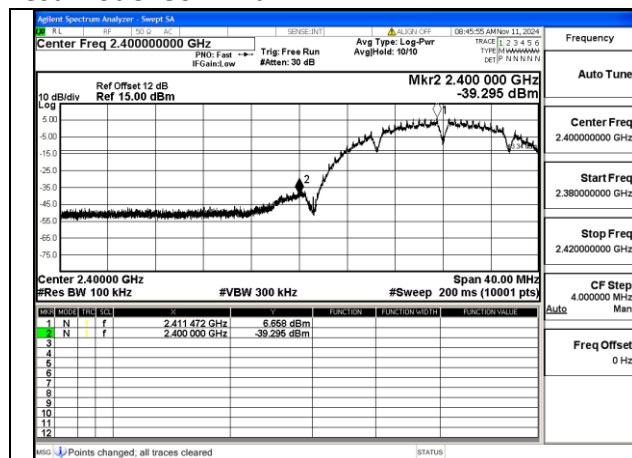
Mode:802.11n HT40 Frequency:2437MHz Ant:Chain1



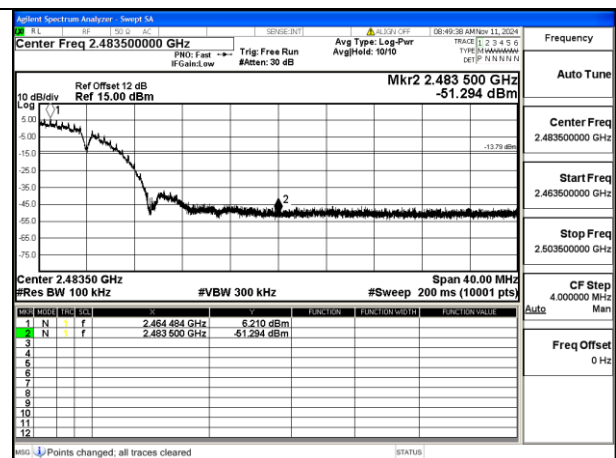
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain1

Band edge measurement

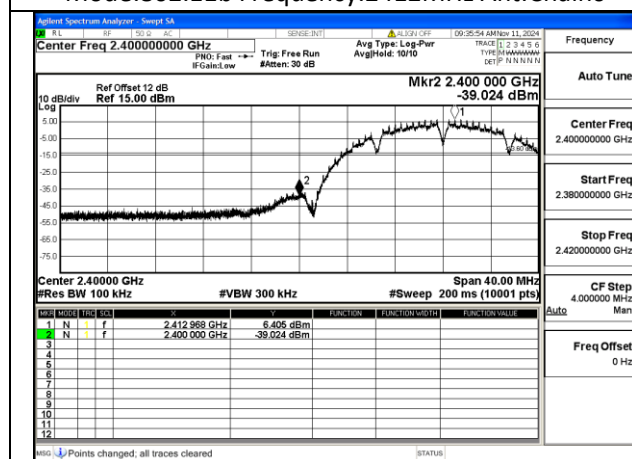
Test Mode: 802.11b



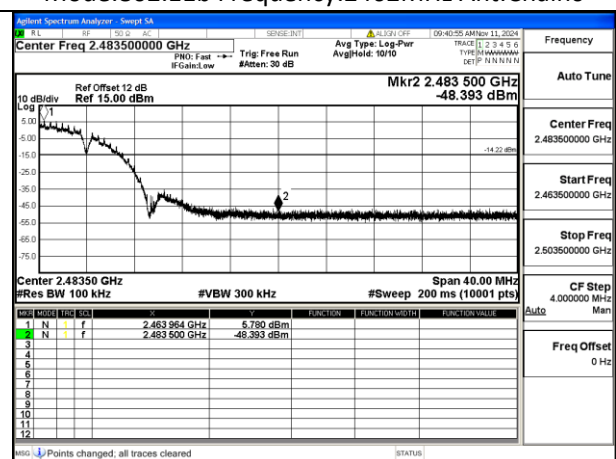
Mode:802.11b Frequency:2412MHz Ant:Chain0



Mode:802.11b Frequency:2462MHz Ant:Chain0

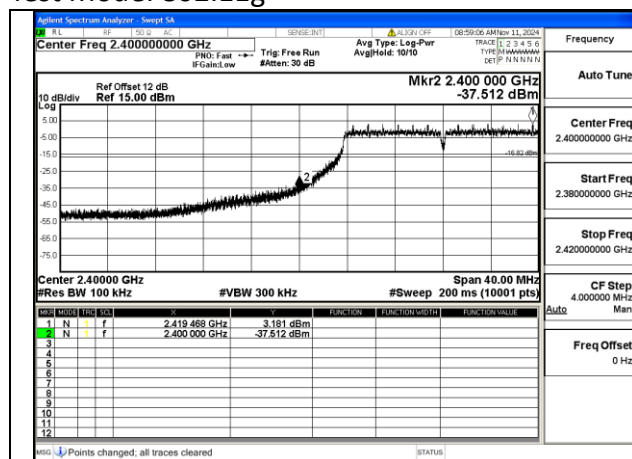


Mode:802.11b Frequency:2412MHz Ant:Chain1

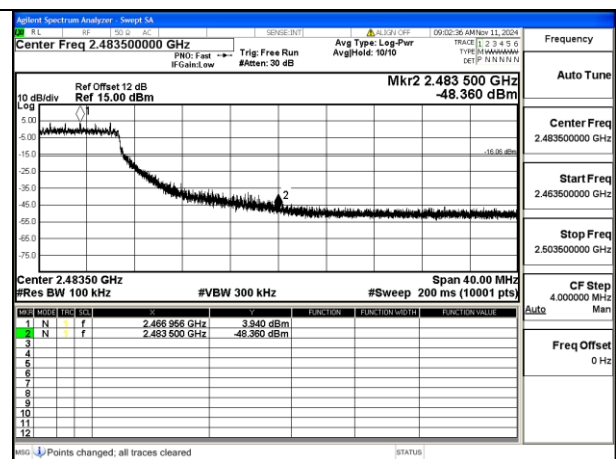


Mode:802.11b Frequency:2462MHz Ant:Chain1

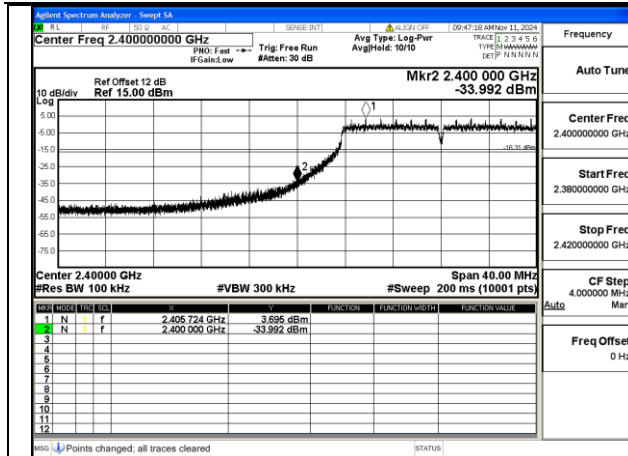
Test Mode: 802.11g



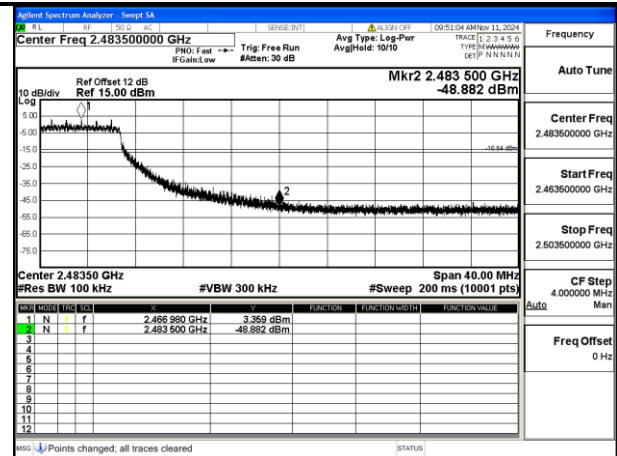
Mode:802.11g Frequency:2412MHz Ant:Chain0



Mode:802.11g Frequency:2462MHz Ant:Chain0

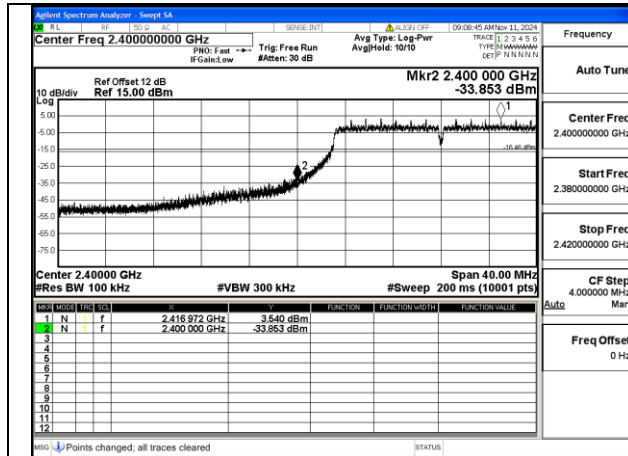


Mode:802.11g Frequency:2412MHz Ant:Chain1

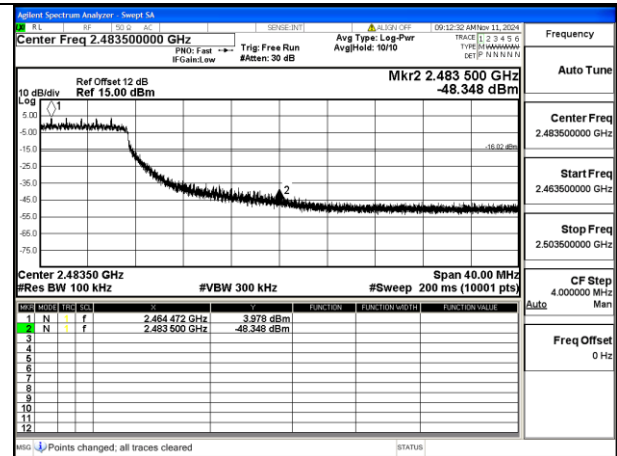


Mode:802.11g Frequency:2462MHz Ant:Chain1

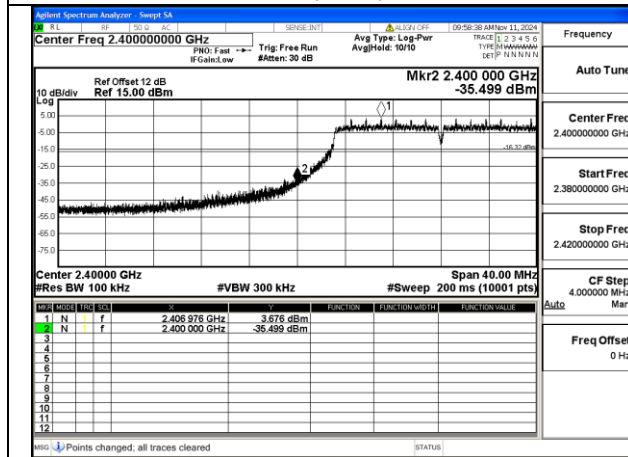
Test Mode: 802.11n HT20



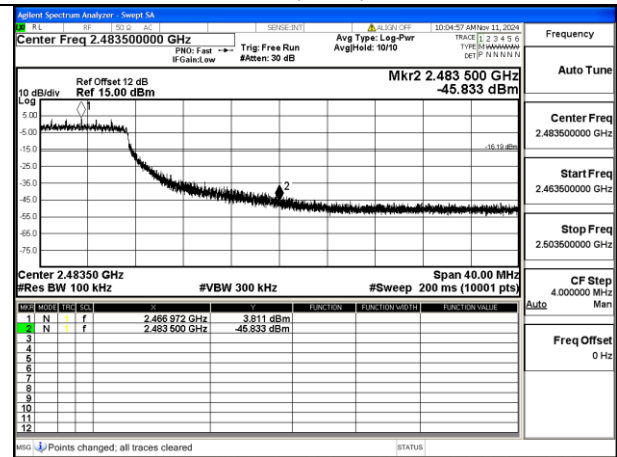
Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0



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

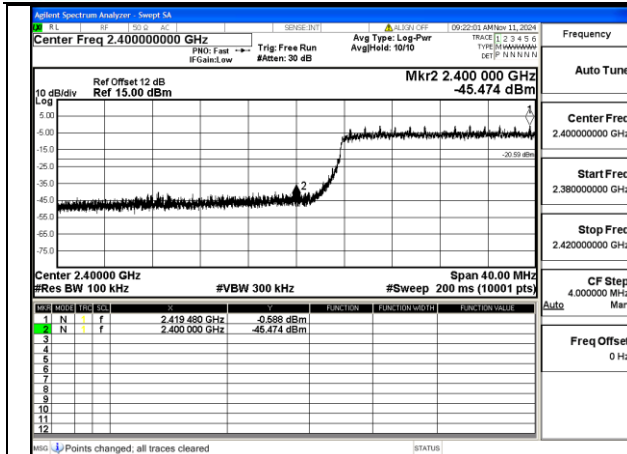


Mode:802.11n HT20 Frequency:2412MHz Ant:Chain1

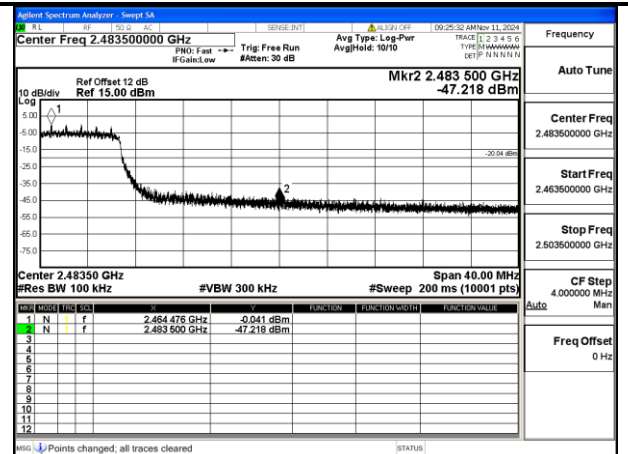


Mode:802.11n HT20 Frequency:2462MHz Ant:Chain1

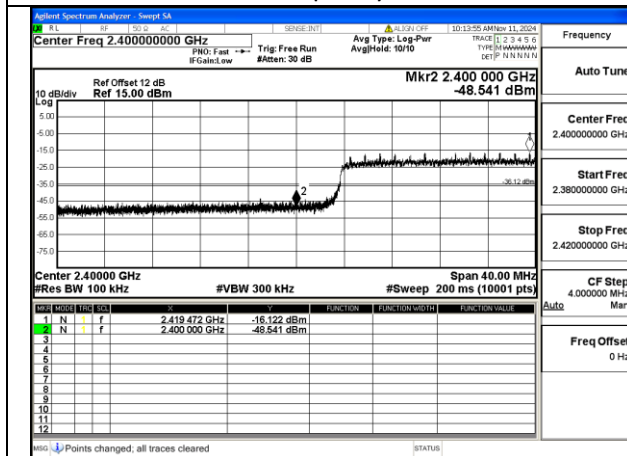
Test Mode: 802.11n HT40



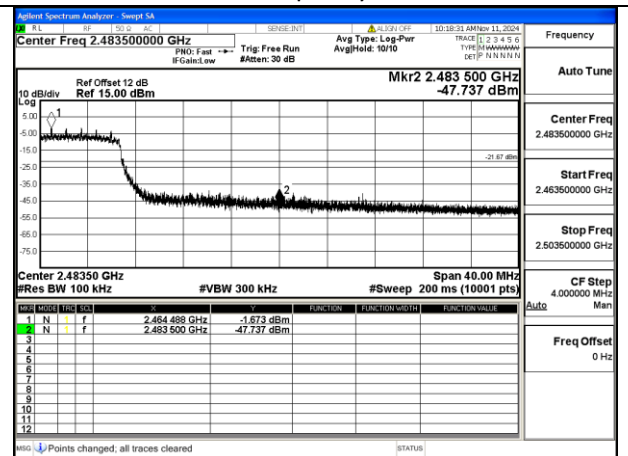
Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0



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



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



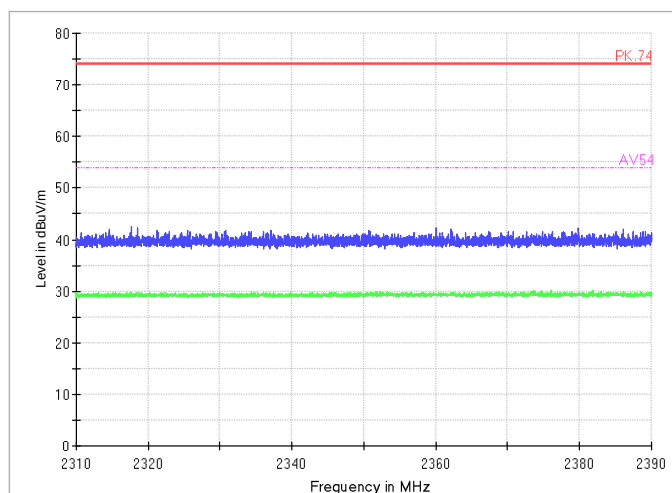
Mode:802.11n HT40 Frequency:2452MHz Ant:Chain1

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

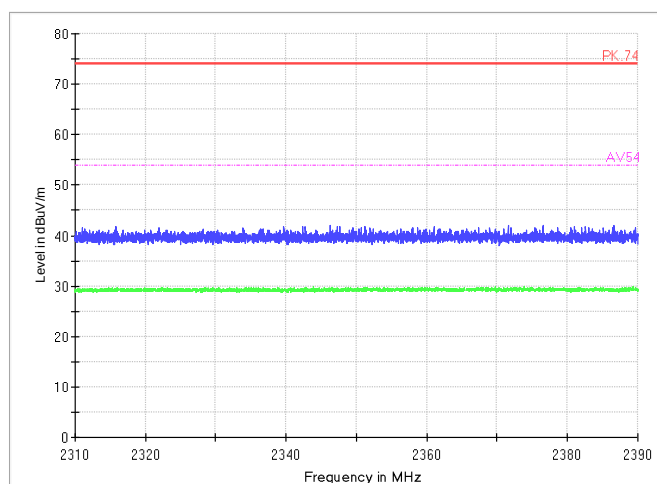


Radiated Emission Band Edge

Channel No.:1

Test Mode: 802.11b

Polarization: V

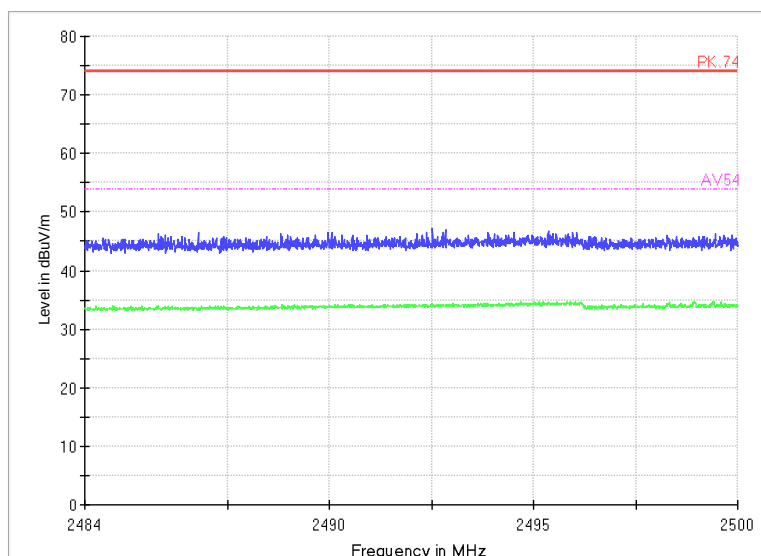


Radiated Emission Band Edge

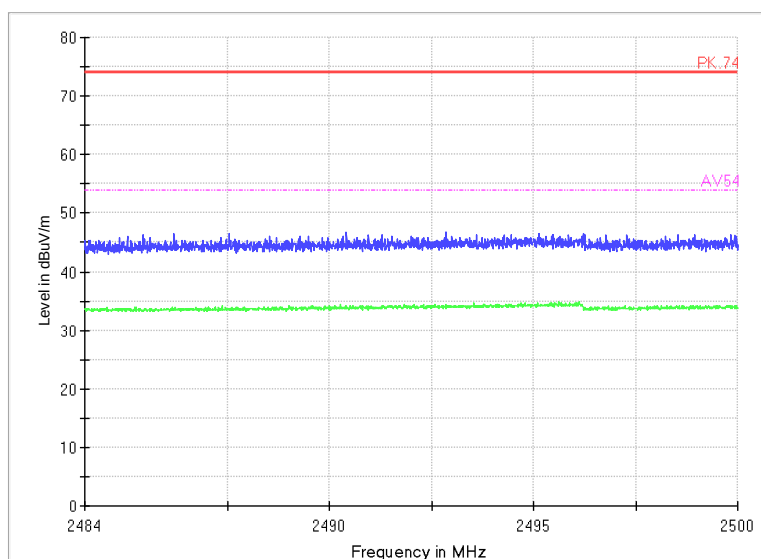
Channel No.:1

Test Mode: 802.11b

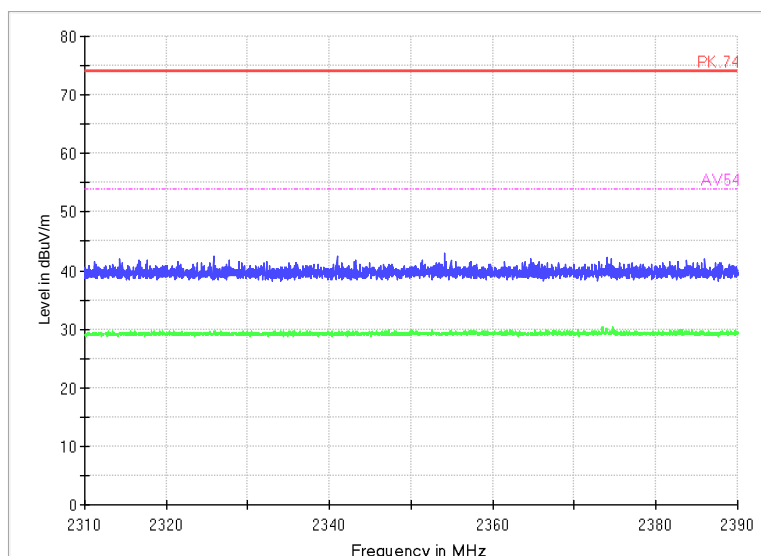
Polarization: H



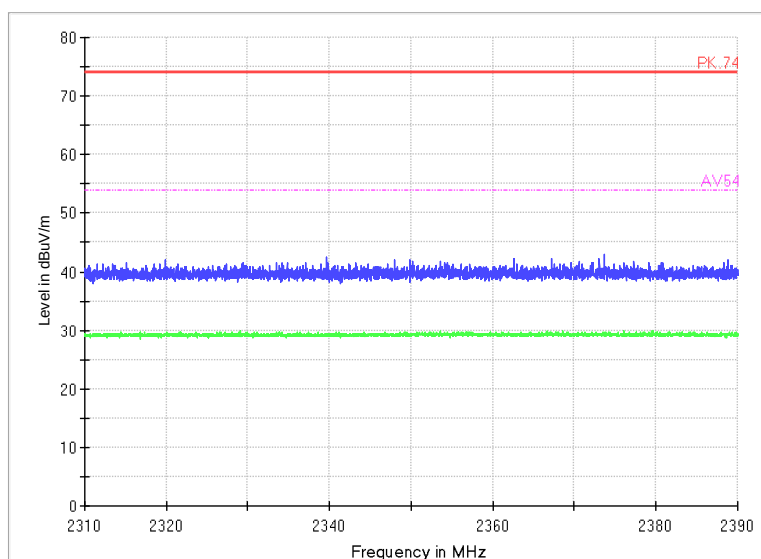
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization: V



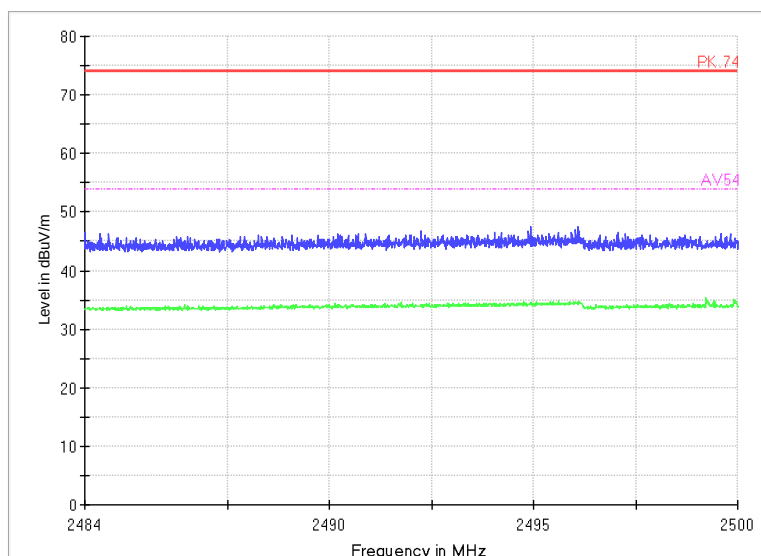
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization: H



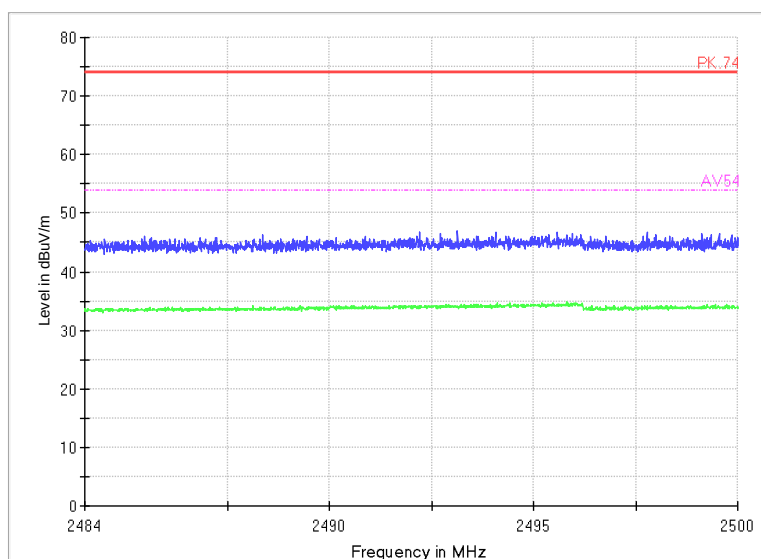
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization: V



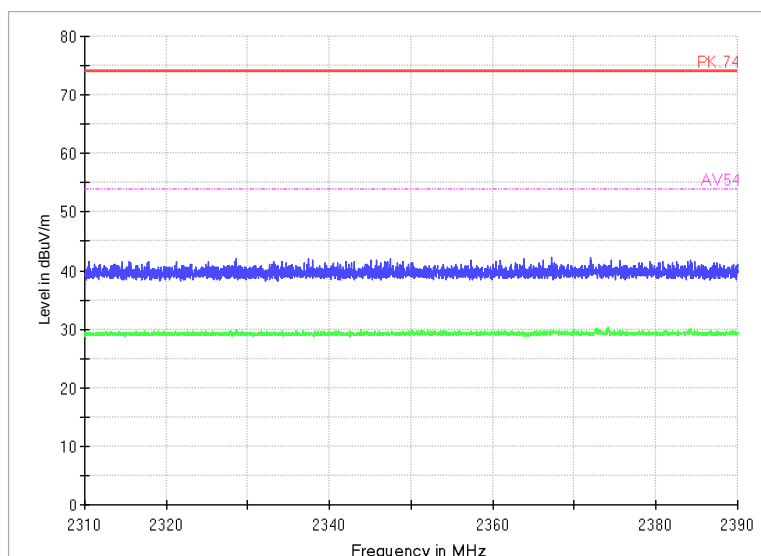
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization: H



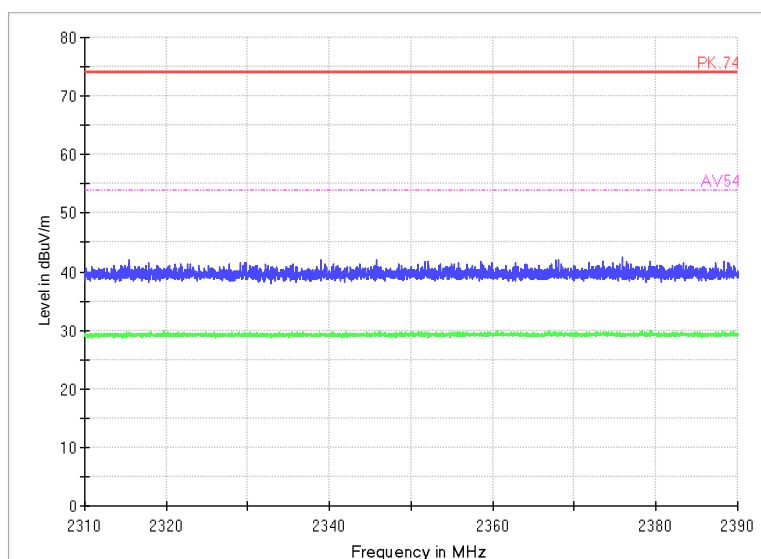
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: V



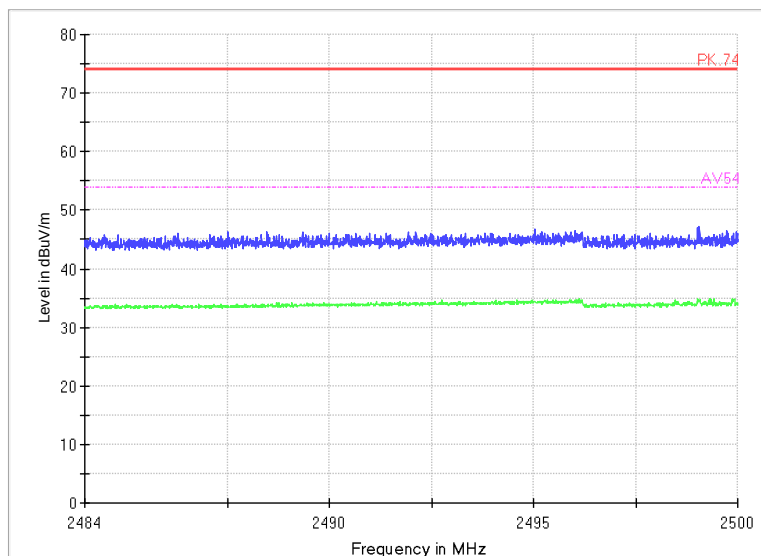
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization: H



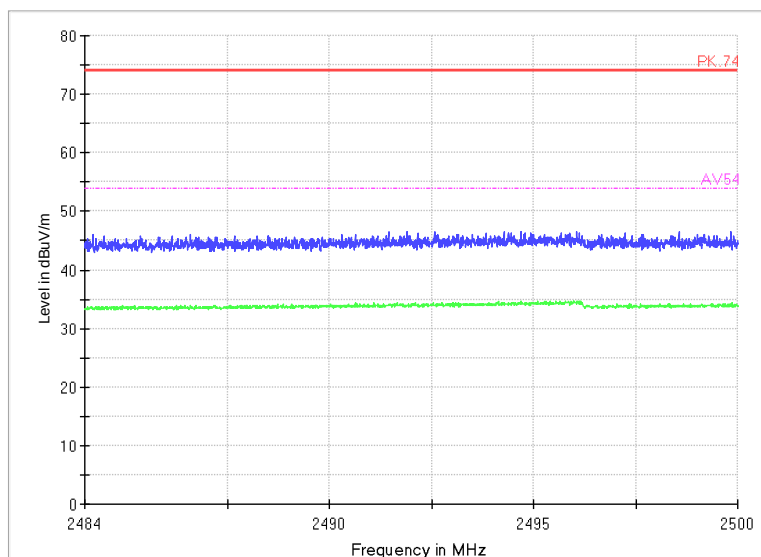
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n(HT20)
Polarization: V



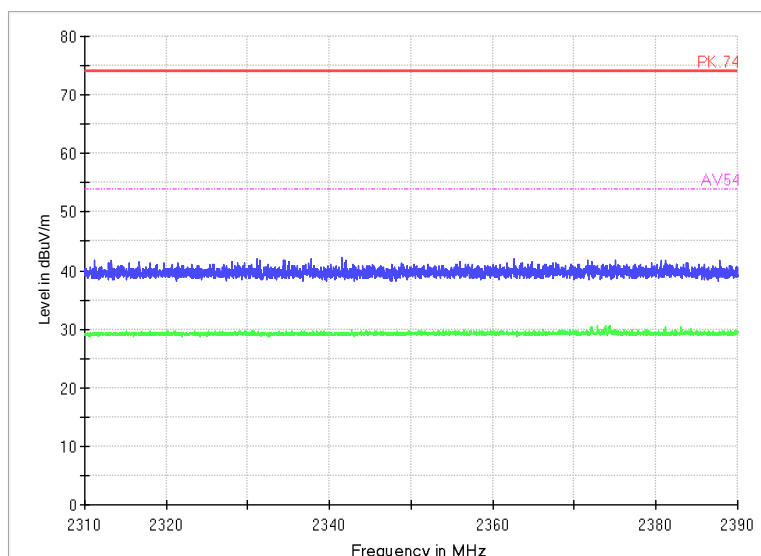
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n(HT20)
Polarization: H



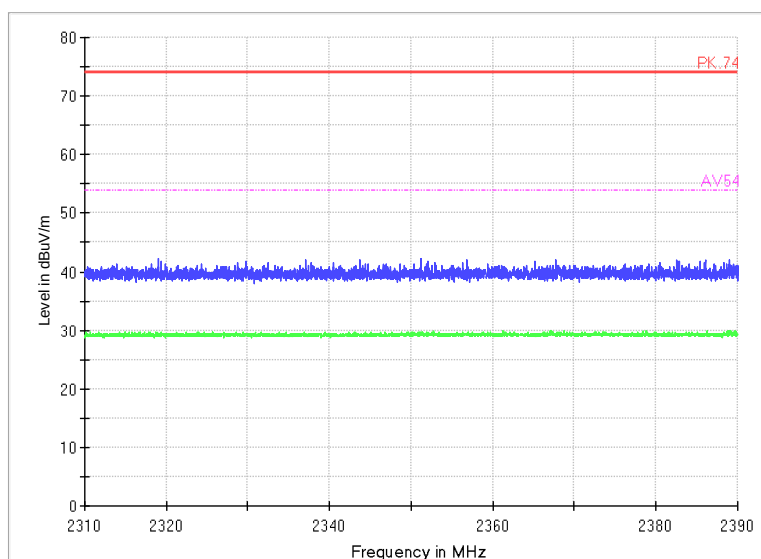
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n(HT20)
Polarization: V



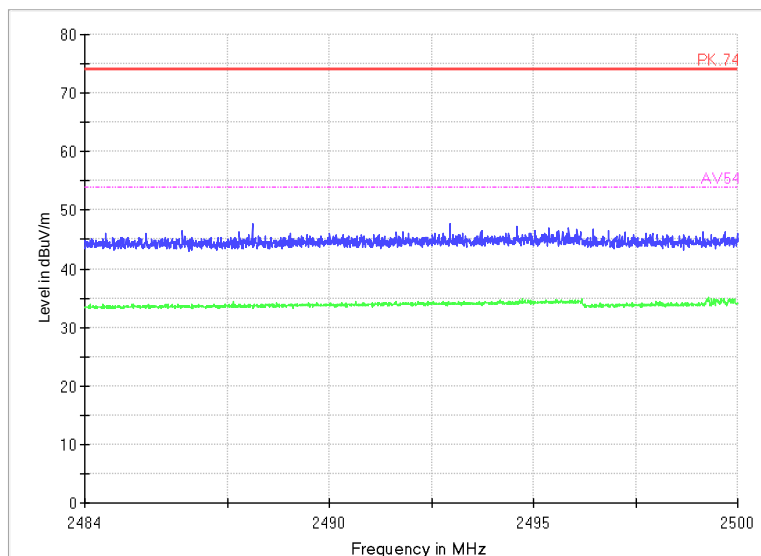
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n(HT20)
Polarization: H



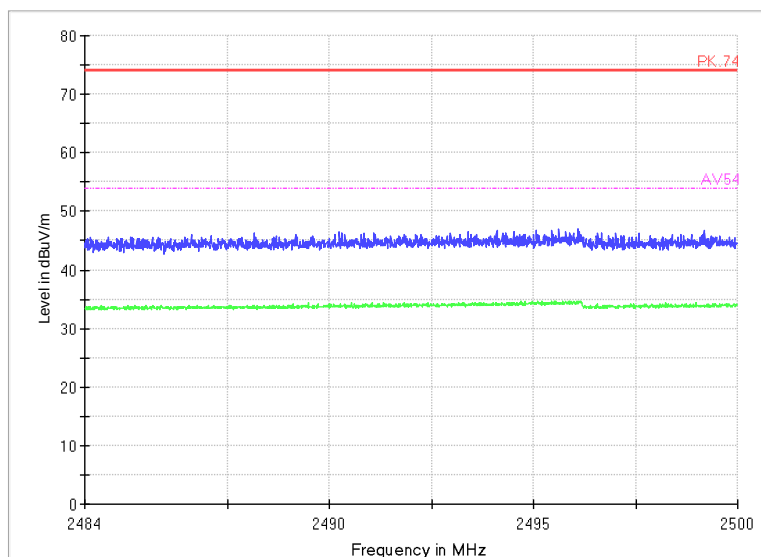
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n(HT40)
Polarization: V



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:

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

Sample calculation: $(21.73 \text{ dB}\mu\text{V/m}) = (36.63 \text{ dB}\mu\text{V}) + (-14.9 \text{ dB/m})$, the corresponding frequency is 48.0905 MHz.

For 802.11b Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.0905	21.73	-14.9	36.63	Vertical	40	18.27
87.133	25.39	-20.2	45.59	Vertical	40	14.61
150.28	16.41	-20.2	36.61	Vertical	43.5	27.09
180.35	15.16	-18.5	33.66	Vertical	43.5	28.34
444.9175	20.73	-9.5	30.23	Vertical	46	25.27
733.4925	26.74	-3.4	30.14	Vertical	46	19.26

For 802.11g Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.042	17.84	-14.9	32.74	Vertical	40	22.16
87.133	25.38	-20.2	45.58	Vertical	40	14.62
150.28	16.27	-20.2	36.47	Vertical	43.5	27.23
180.35	15.14	-18.5	33.64	Vertical	43.5	28.36
444.9175	20.78	-9.5	30.28	Vertical	46	25.22
733.4925	26.69	-3.4	30.09	Vertical	46	19.31

For 802.11n(HT20) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.0905	21.87	-14.9	36.77	Vertical	40	18.13
87.133	25.37	-20.2	45.57	Vertical	40	14.63
99.161	16.01	-17	33.01	Vertical	43.5	27.49
180.35	15.13	-18.5	33.63	Vertical	43.5	28.37
468.9735	21.04	-9.4	30.44	Vertical	46	24.96
733.4925	26.65	-3.4	30.05	Vertical	46	19.35

For 802.11b Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.042	17.81	-14.9	32.71	Vertical	40	22.19
87.133	25.4	-20.2	45.6	Vertical	40	14.6

150.28	16.16	-20.2	36.36	Vertical	43.5	27.34
180.35	15.13	-18.5	33.63	Vertical	43.5	28.37
468.9735	21	-9.4	30.4	Vertical	46	25
733.541	25.99	-3.4	29.39	Vertical	46	20.01

For 802.11g Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.0905	21.76	-14.9	36.66	Vertical	40	18.24
87.133	25.39	-20.2	45.59	Vertical	40	14.61
150.28	16.11	-20.2	36.31	Vertical	43.5	27.39
264.546	17.93	-14.4	32.33	Vertical	46	28.07
468.9735	21	-9.4	30.4	Vertical	46	25
733.4925	26.57	-3.4	29.97	Vertical	46	19.43

For 802.11n(HT20) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.0905	21.78	-14.9	36.68	Vertical	40	18.22
87.133	25.37	-20.2	45.57	Vertical	40	14.63
99.161	16.01	-17	33.01	Vertical	43.5	27.49
264.546	17.92	-14.4	32.32	Vertical	46	28.08
468.9735	20.98	-9.4	30.38	Vertical	46	25.02
733.541	26.06	-3.4	29.46	Vertical	46	19.94

For 802.11b Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.0905	21.8	-14.9	36.7	Vertical	40	18.2
87.133	25.4	-20.2	45.6	Vertical	40	14.6
99.161	15.85	-17	32.85	Vertical	43.5	27.65
180.35	15.07	-18.5	33.57	Vertical	43.5	28.43
468.9735	20.99	-9.4	30.39	Vertical	46	25.01
721.4645	25.43	-4.2	29.63	Vertical	46	20.57

For 802.11g Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.042	17.85	-14.9	32.75	Vertical	40	22.15
87.133	25.36	-20.2	45.56	Vertical	40	14.64
150.28	16	-20.2	36.2	Vertical	43.5	27.5
180.35	15.09	-18.5	33.59	Vertical	43.5	28.41
468.9735	20.95	-9.4	30.35	Vertical	46	25.05
733.541	26.06	-3.4	29.46	Vertical	46	19.94

For 802.11n(HT20) Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.042	17.84	-14.9	32.74	Vertical	40	22.16
84.126	24.06	-21.2	45.26	Vertical	40	15.94
150.28	15.97	-20.2	36.17	Vertical	43.5	27.53
180.35	15.07	-18.5	33.57	Vertical	43.5	28.43
468.9735	20.96	-9.4	30.36	Vertical	46	25.04
733.541	26.07	-3.4	29.47	Vertical	46	19.93

For 802.11n(HT40) Channel No.:3

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.0905	21.78	-14.9	36.68	Vertical	40	18.22
87.133	25.38	-20.2	45.58	Vertical	40	14.62
99.161	15.9	-17	32.9	Vertical	43.5	27.6
180.35	15.08	-18.5	33.58	Vertical	43.5	28.42
468.9735	20.96	-9.4	30.36	Vertical	46	25.04
733.541	26.07	-3.4	29.47	Vertical	46	19.93

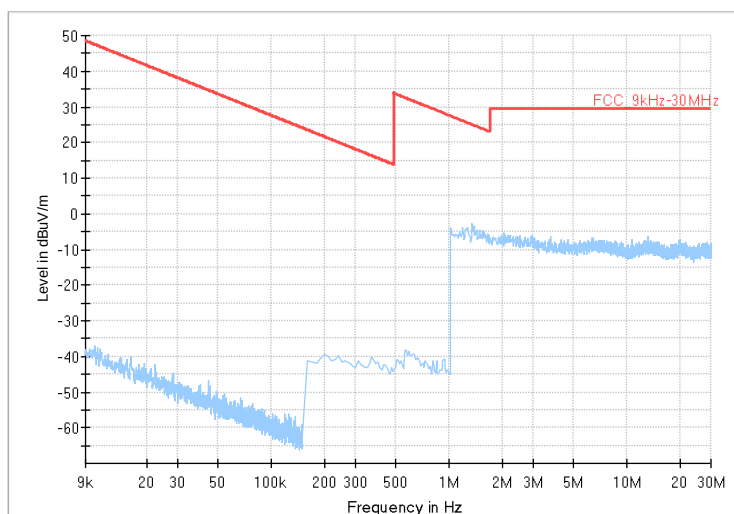
For 802.11n(HT40) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.0905	21.78	-14.9	36.68	Vertical	40	18.22
87.133	25.35	-20.2	45.55	Vertical	40	14.65
99.161	15.97	-17	32.97	Vertical	43.5	27.53
180.35	15.07	-18.5	33.57	Vertical	43.5	28.43
468.9735	20.94	-9.4	30.34	Vertical	46	25.06
733.4925	26.55	-3.4	29.95	Vertical	46	19.45

For 802.11n(HT40) Channel No.:9

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.042	17.83	-14.9	32.73	Vertical	40	22.17
84.126	24.06	-21.2	45.26	Vertical	40	15.95
150.28	15.95	-20.2	36.15	Vertical	43.5	27.55
264.546	17.95	-14.4	32.35	Vertical	46	28.05
468.9735	20.97	-9.4	30.37	Vertical	46	25.03
745.5205	25.58	-2.9	28.48	Vertical	46	20.42

Full Spectrum



Frequency Range: 9kHz -30MHz

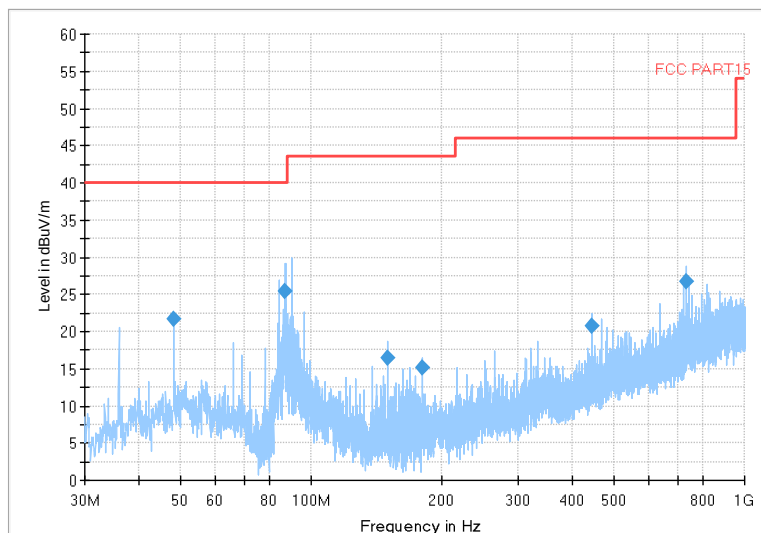
Detector: QP mode

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

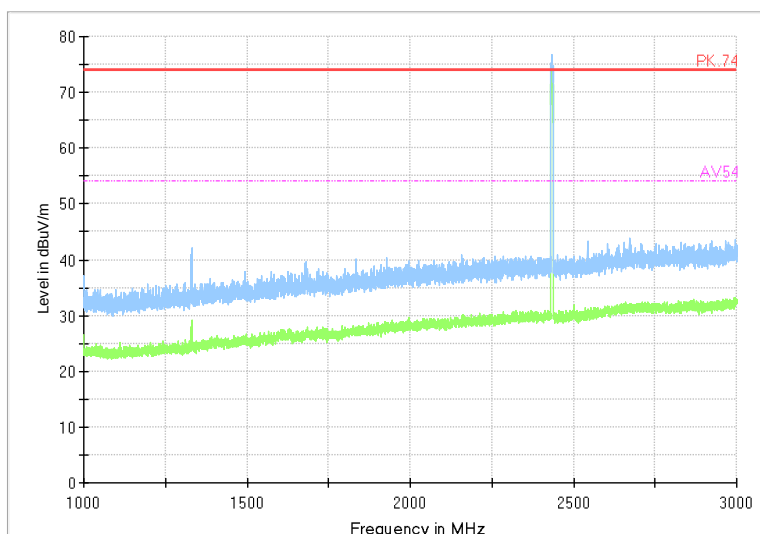


Frequency Range 30MHz -1GHz

Detector: QP mode

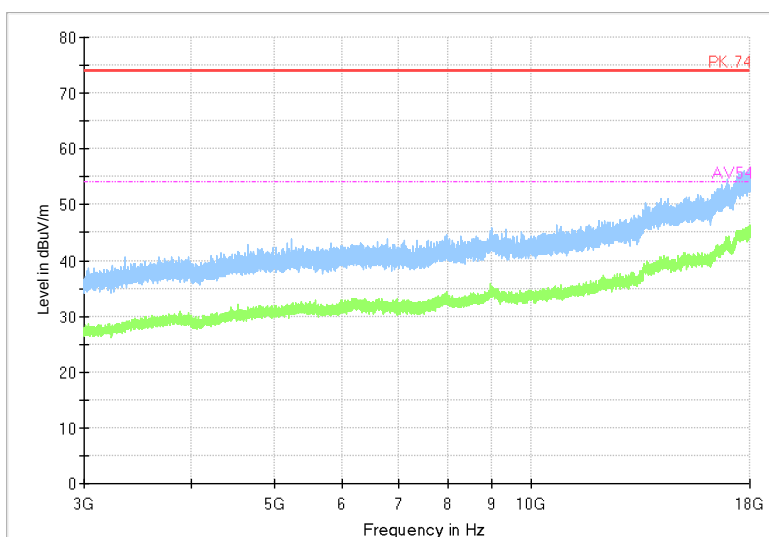
Modulation type: 802.11b

Full Spectrum



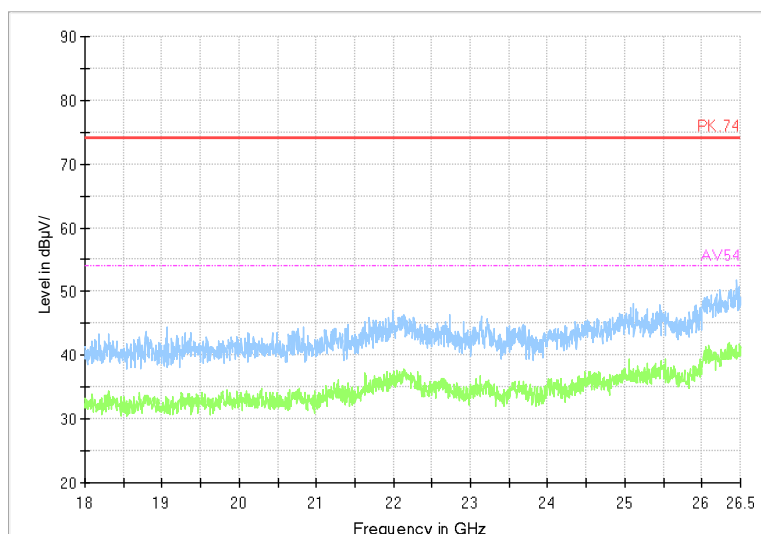
Frequency Range: 1GHz -3GHz
Detector:QP mode
Modulation type: 802.11b

Full Spectrum



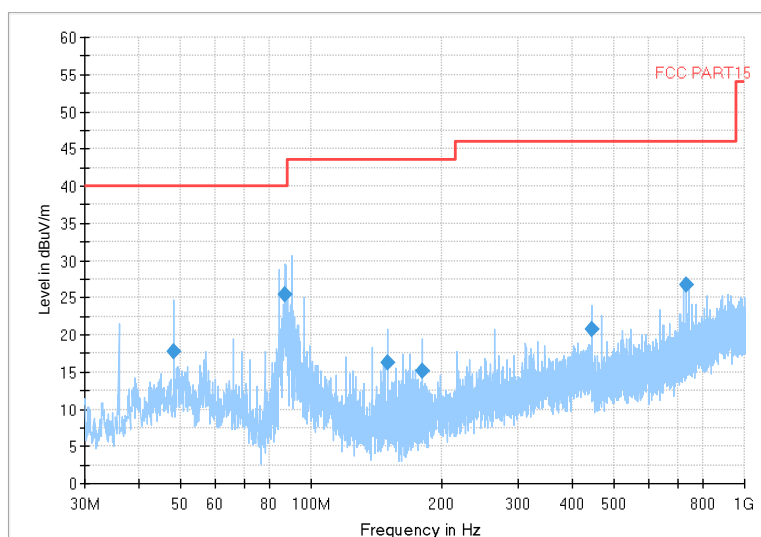
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



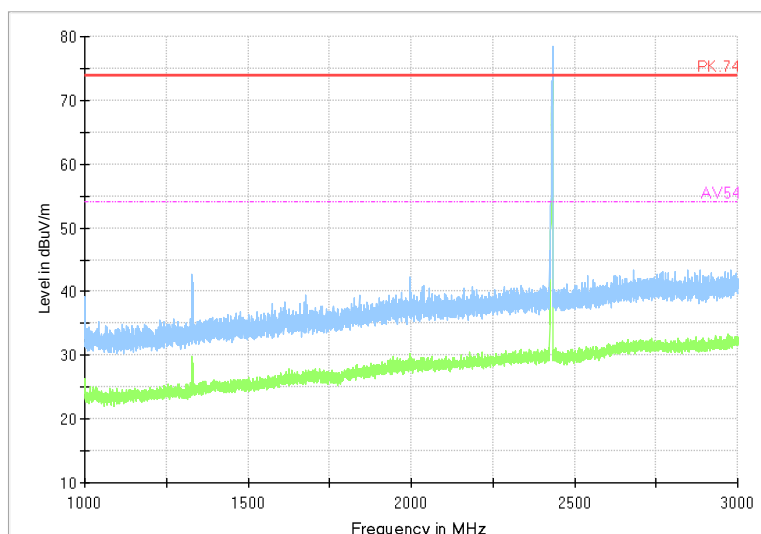
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



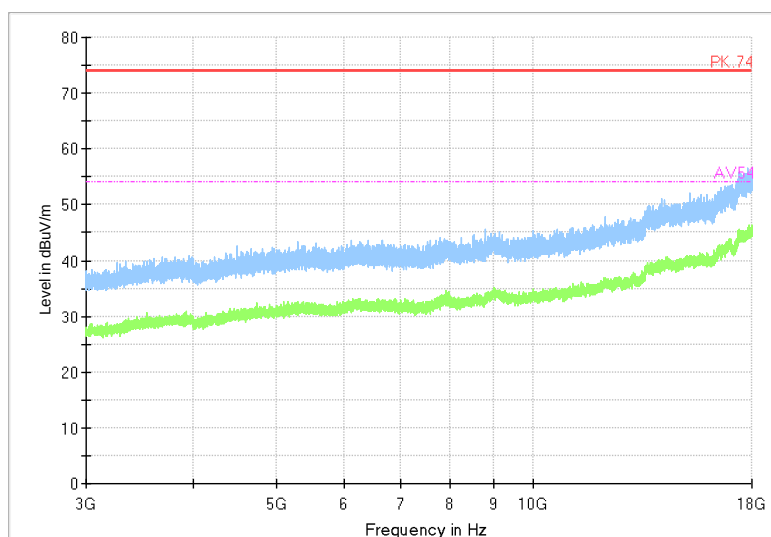
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

Full Spectrum



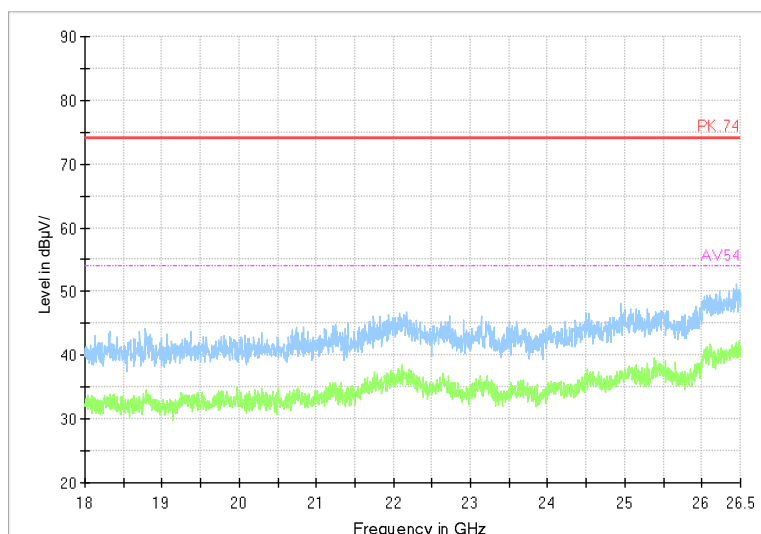
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



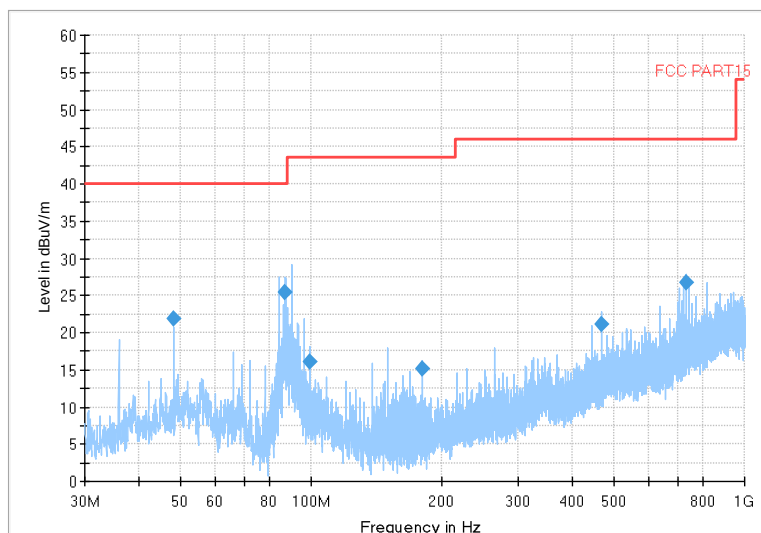
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



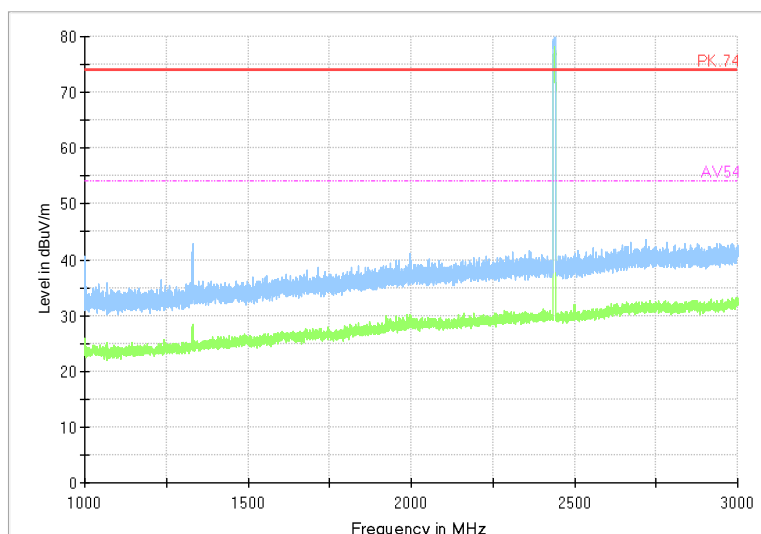
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



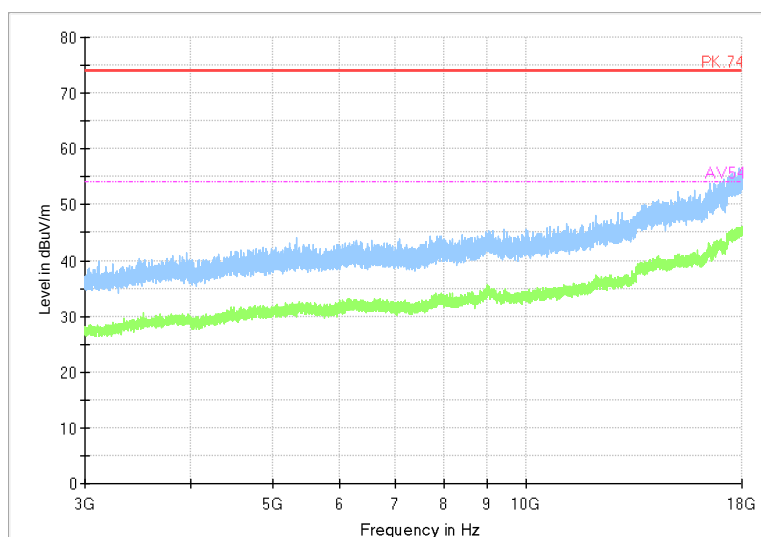
Frequency Range: 30MHz -1GHz
Detector:QP mode
Modulation type: 802.11n(HT20)

Full Spectrum



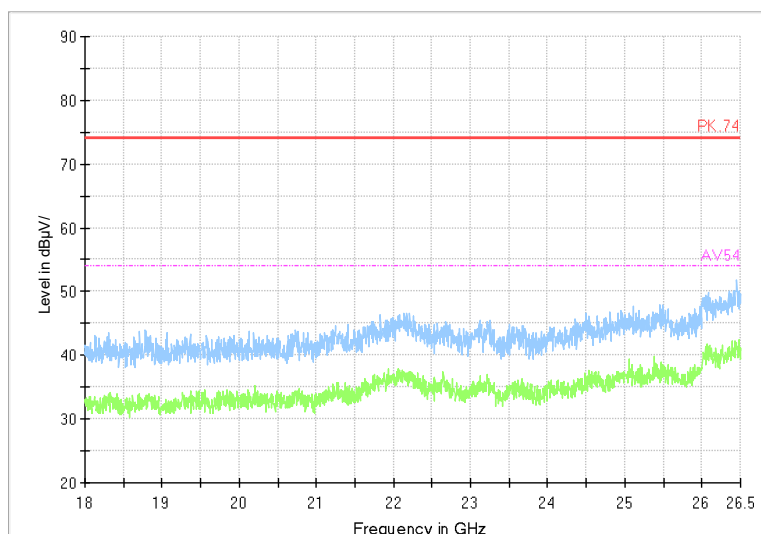
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Full Spectrum



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

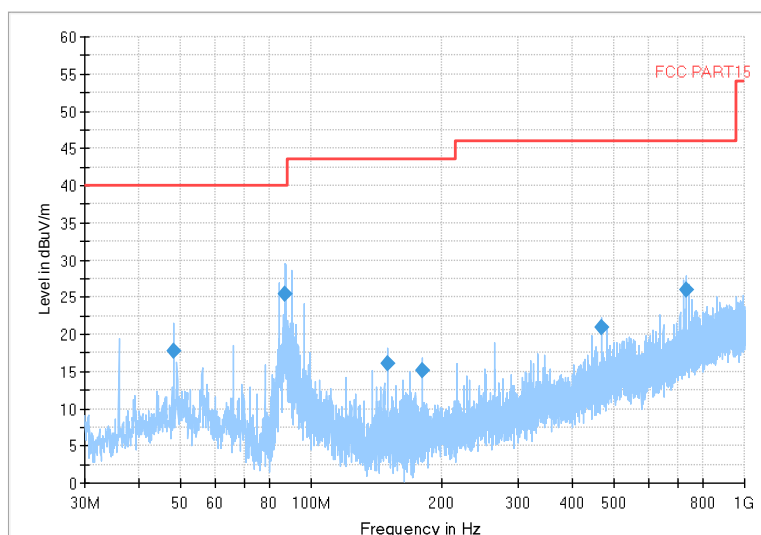
Full Spectrum



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

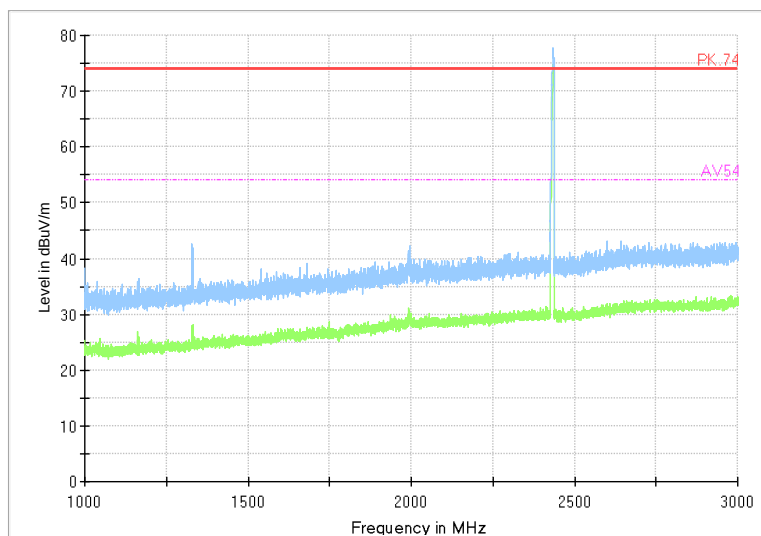
Carrier frequency (MHz): 2437
Channel No.:6

Full Spectrum



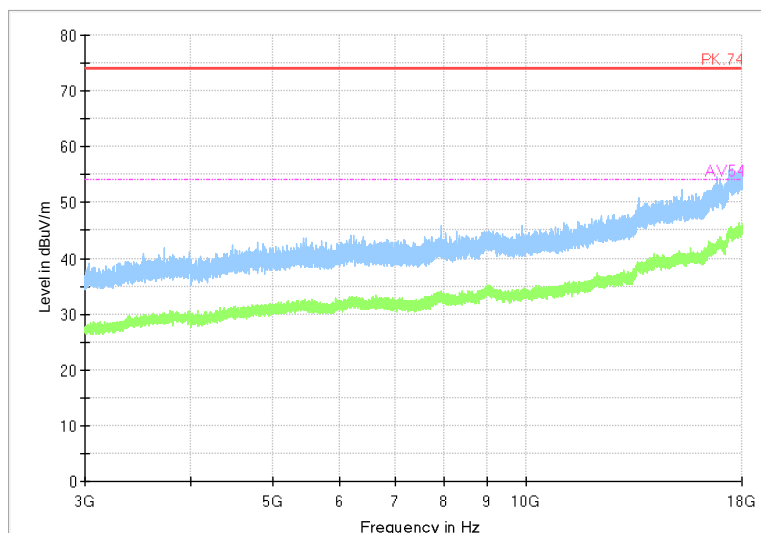
Frequency Range: 30MHz -1GHz
Detector:QP mode
Modulation type: 802.11b

Full Spectrum



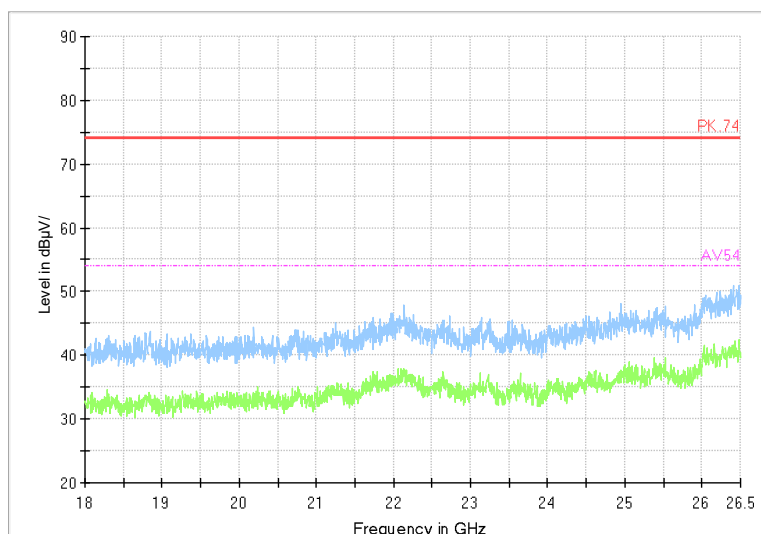
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



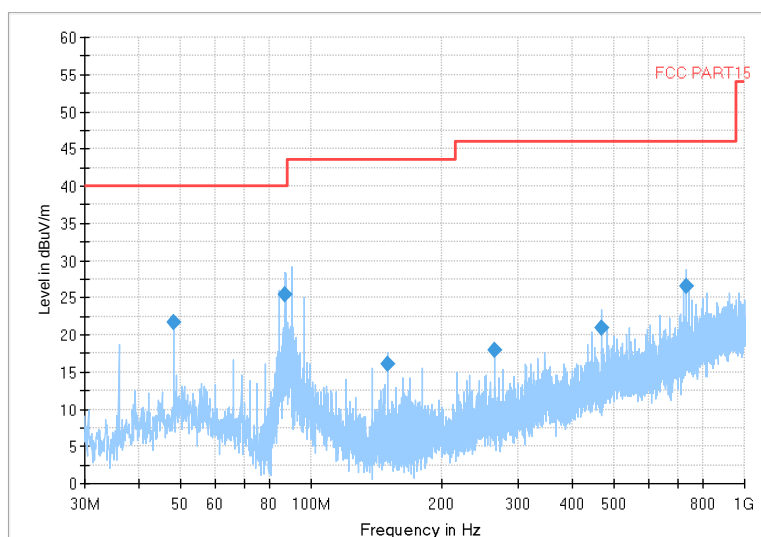
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



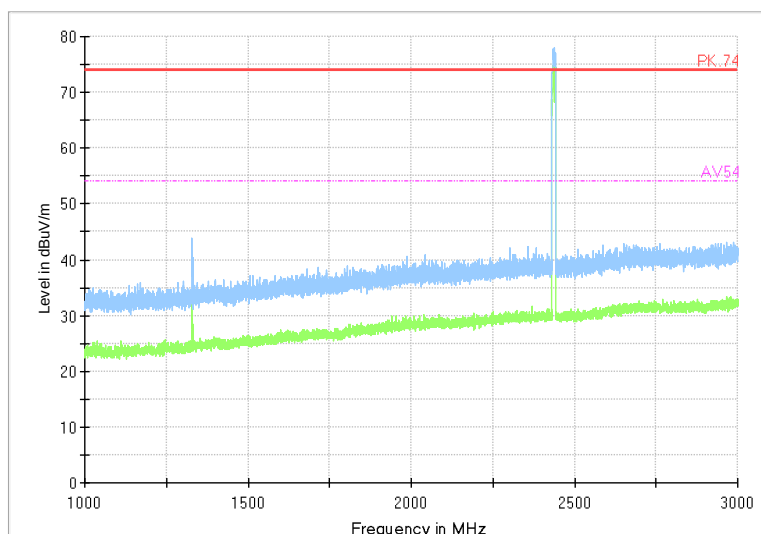
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

Full Spectrum



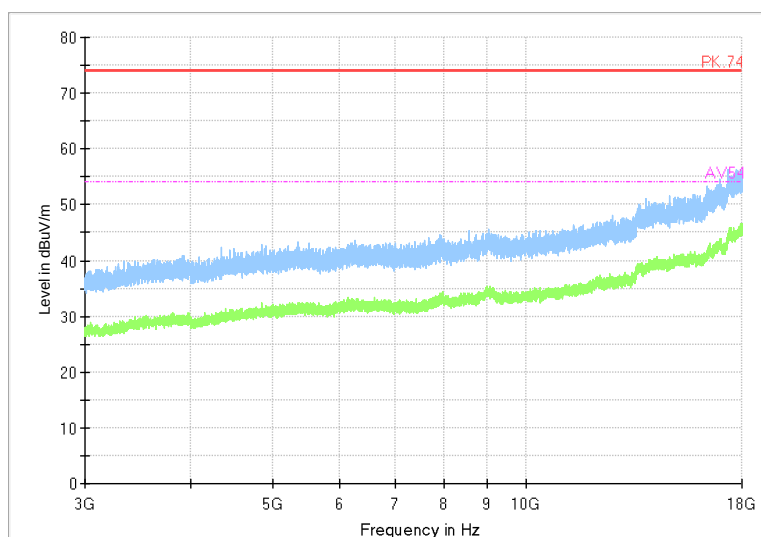
Frequency Range: 30MHz -1GHz
Detector: QP mode
Modulation type: 802.11g

Full Spectrum



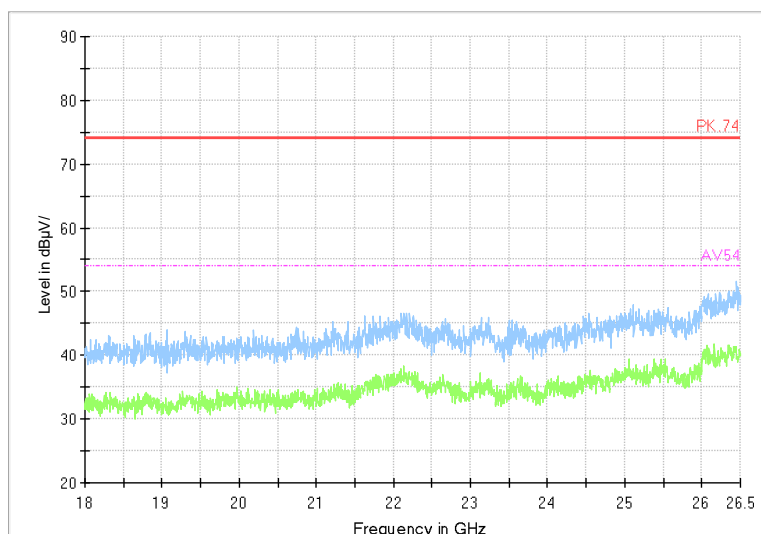
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

Full Spectrum



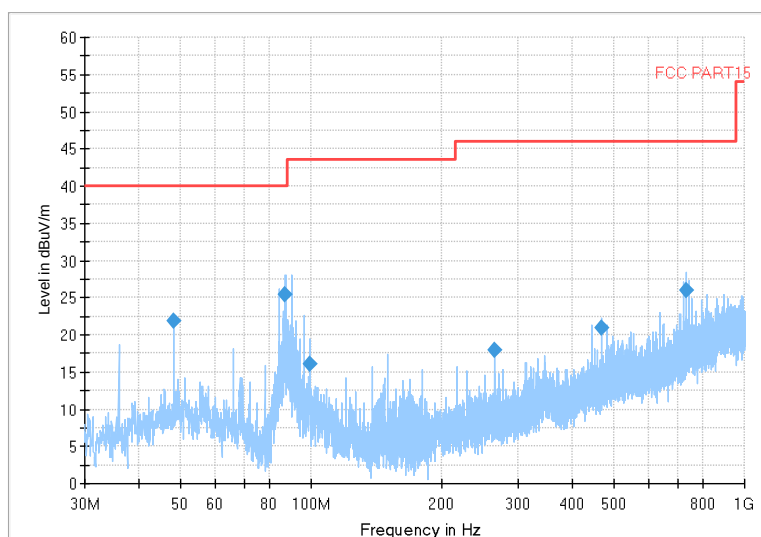
Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

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)