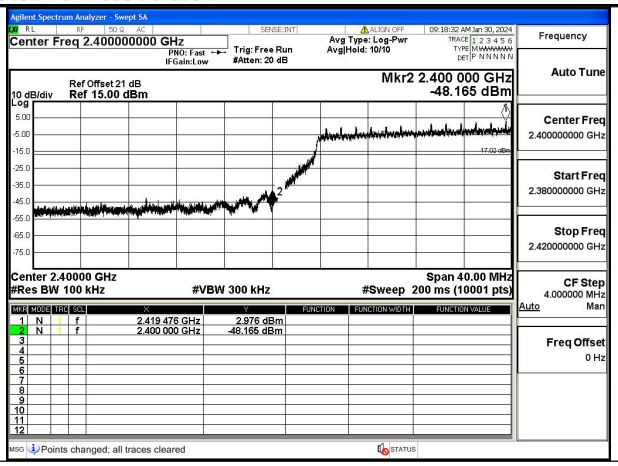
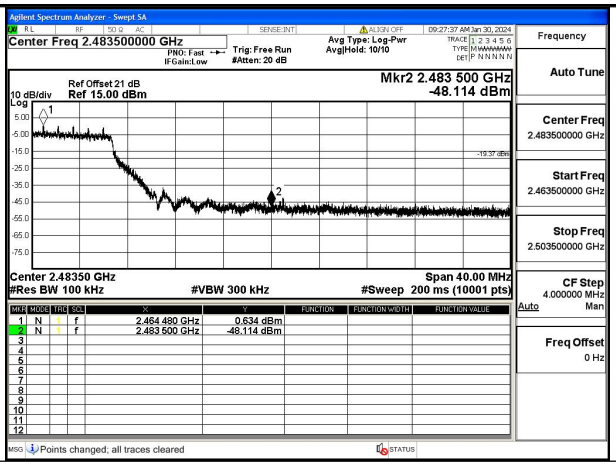
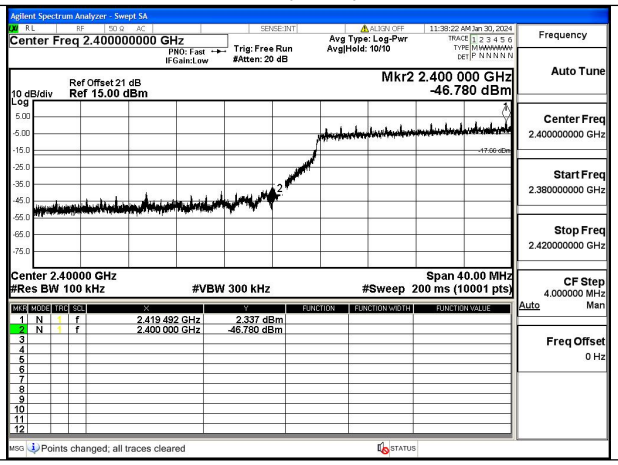


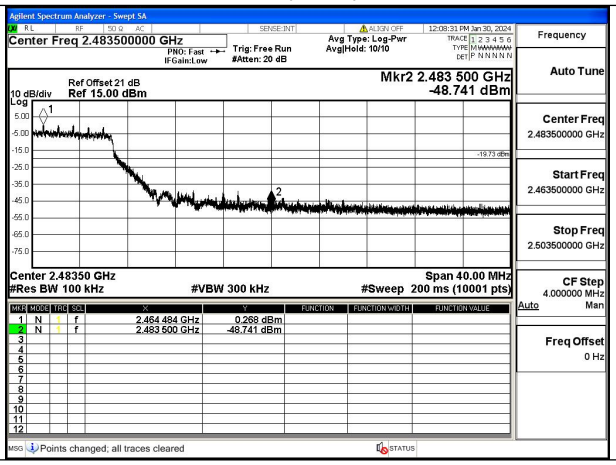
Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0



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



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



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

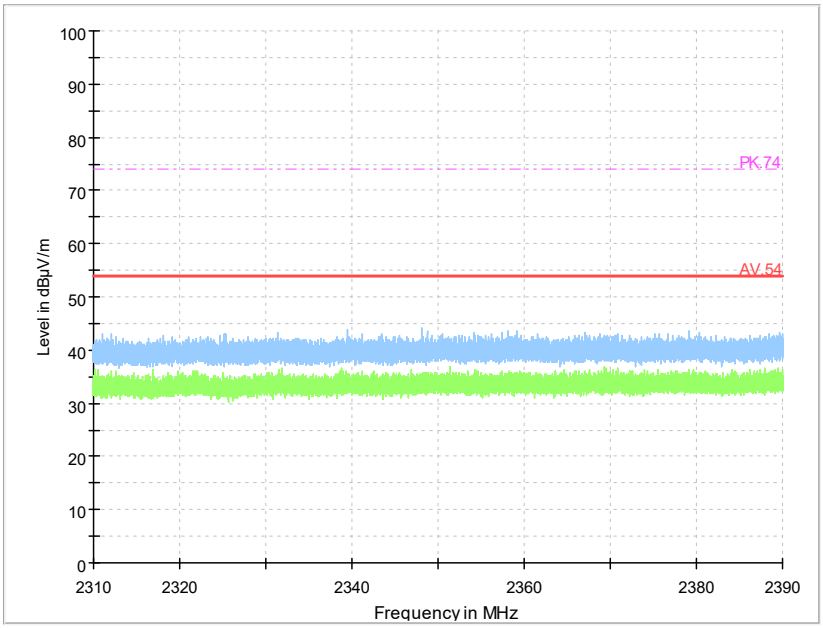
APPENDIX B – TEST DATA OF RADIATED EMISSION

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

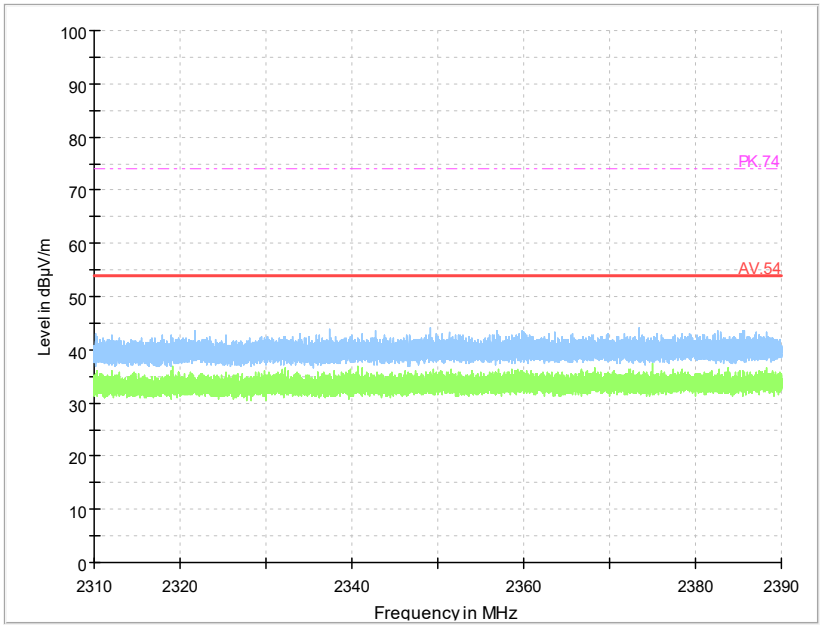
Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan

.

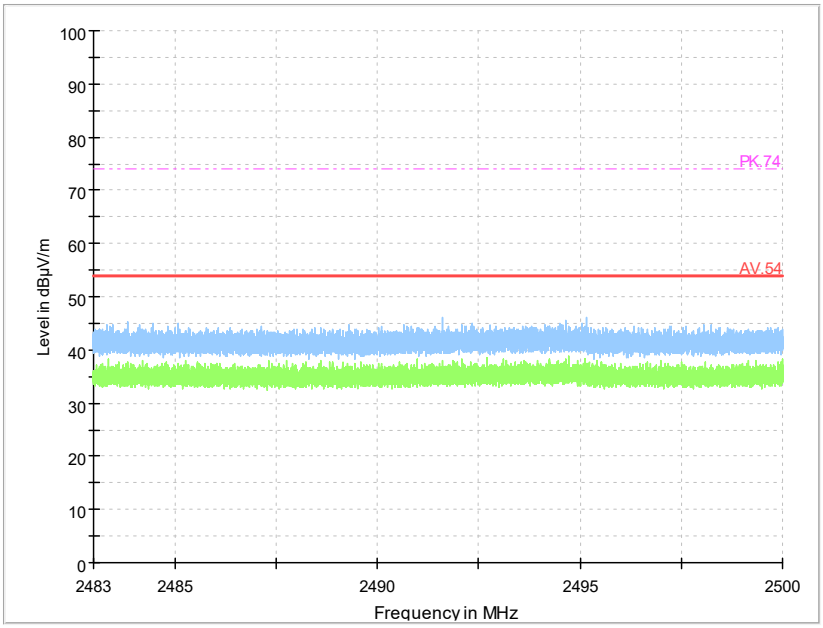
Radiated Emission Band Edge



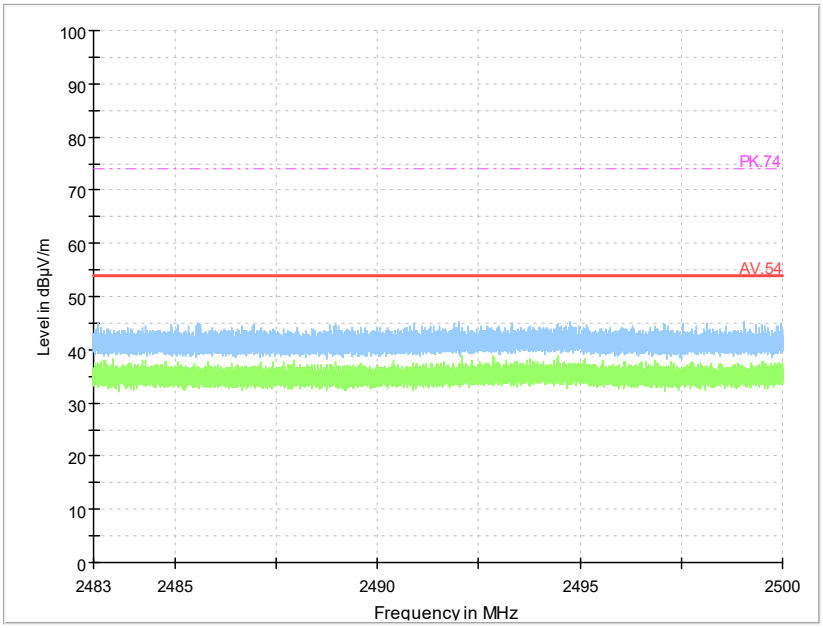
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization：V
ANT 1



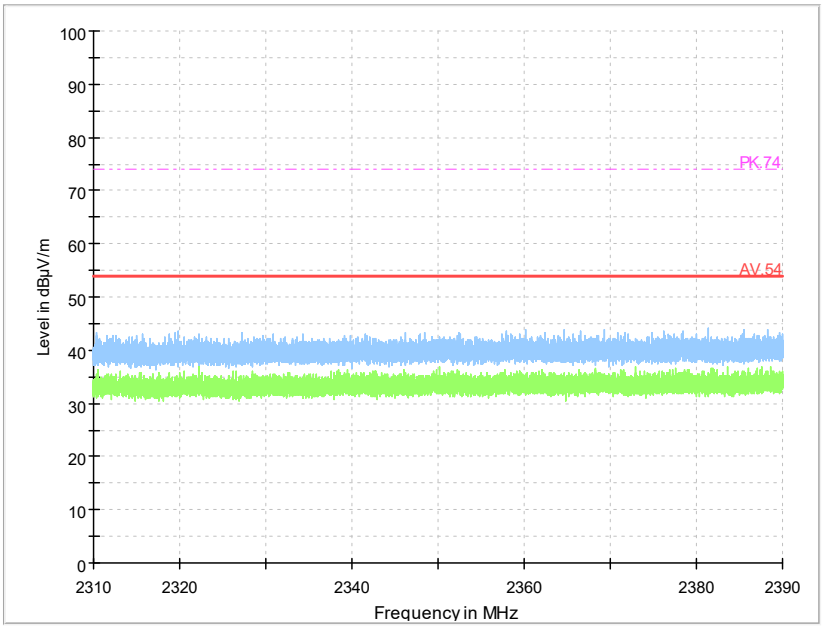
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization：H
ANT 1



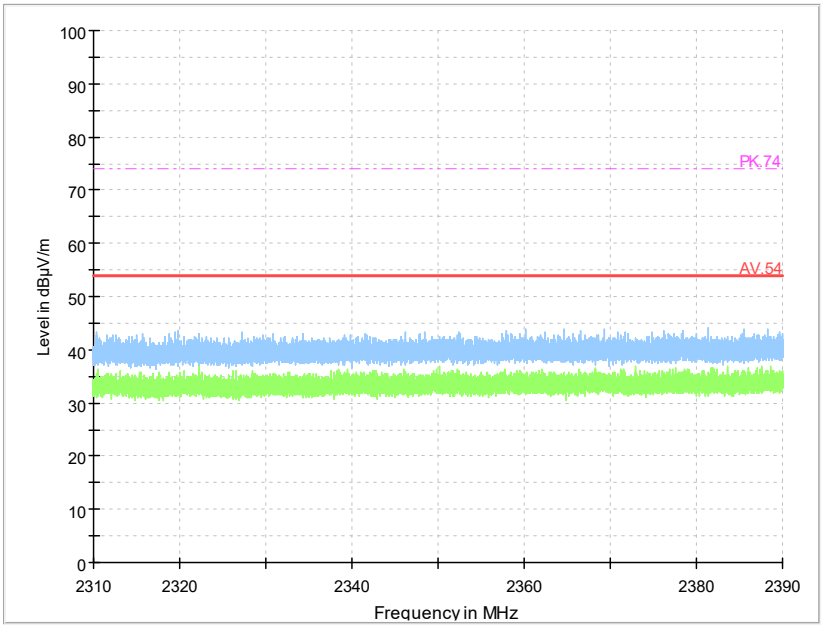
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization：V
ANT 1



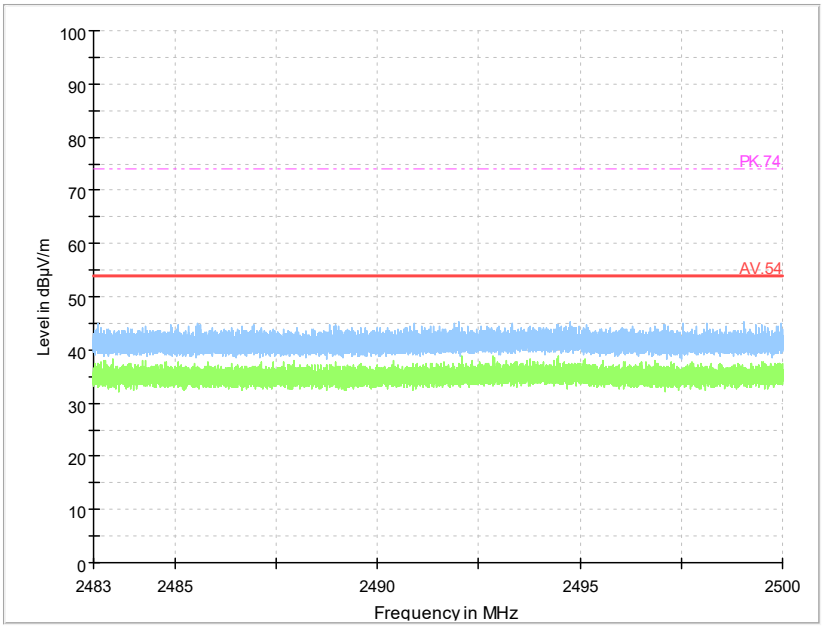
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization：H
ANT 1



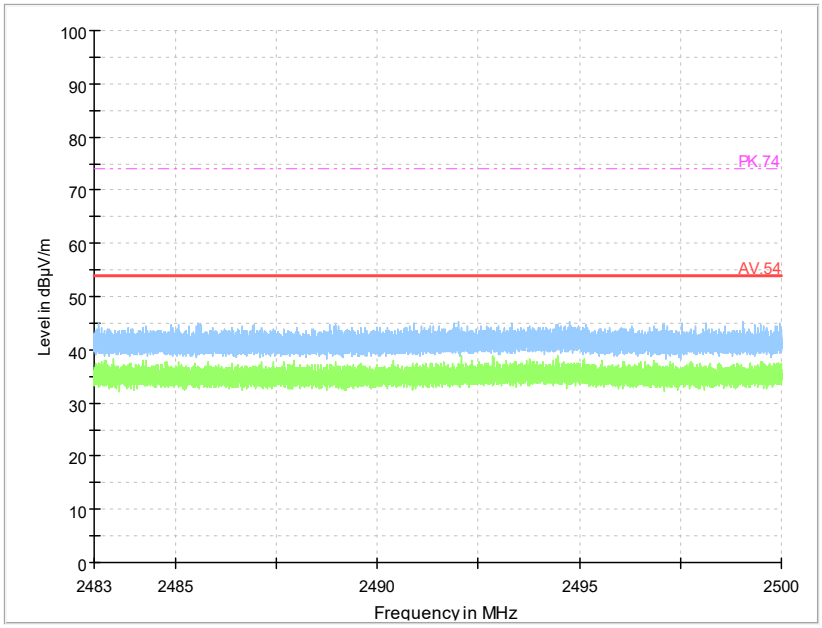
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization：V
ANT 1



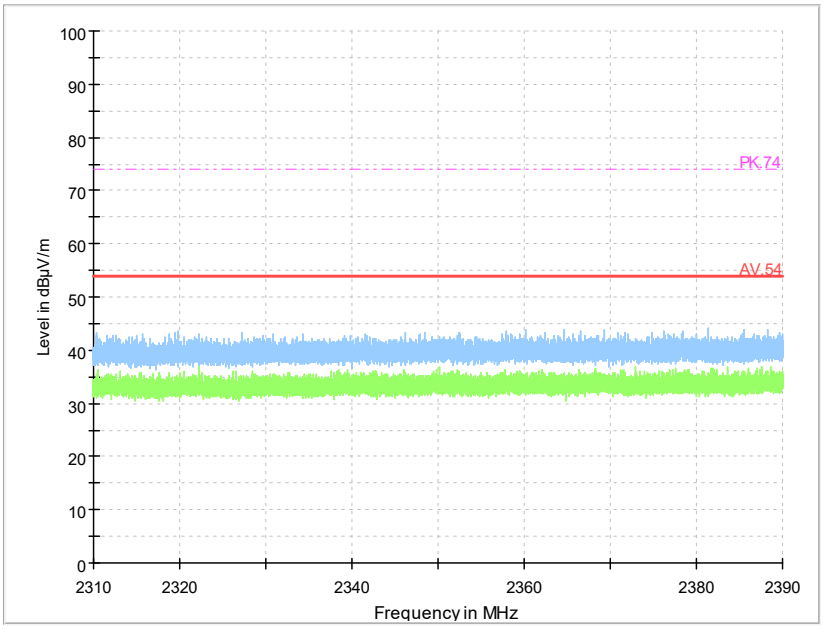
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization：H
ANT 1



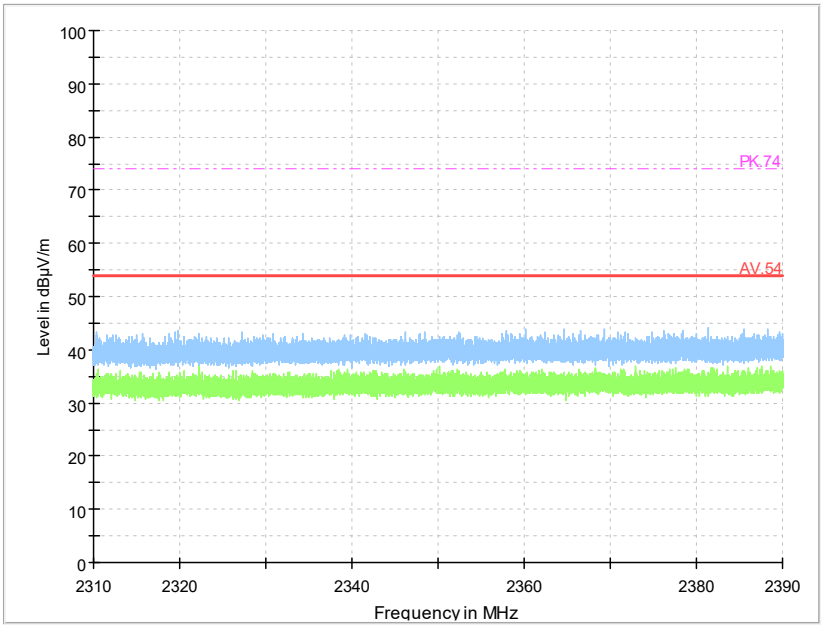
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization：V
ANT 1



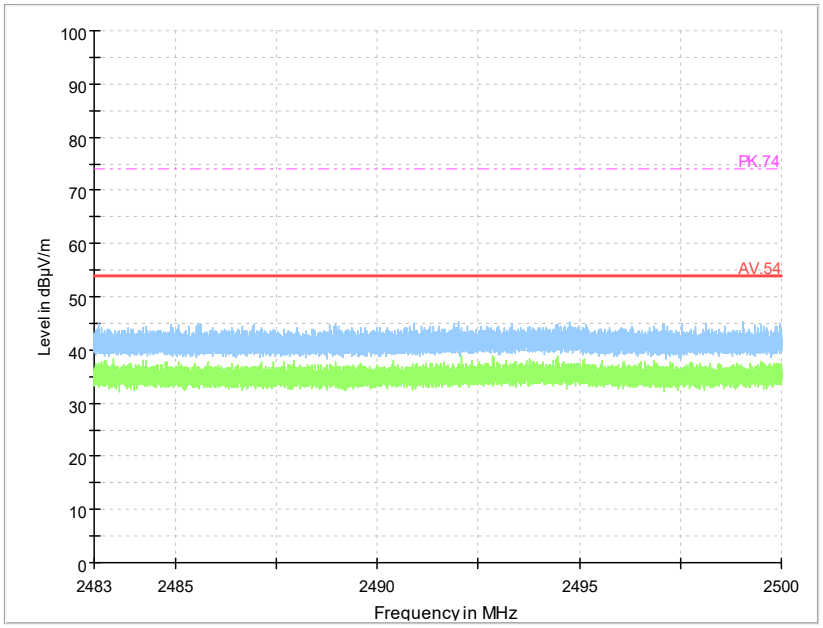
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization：H
ANT 1



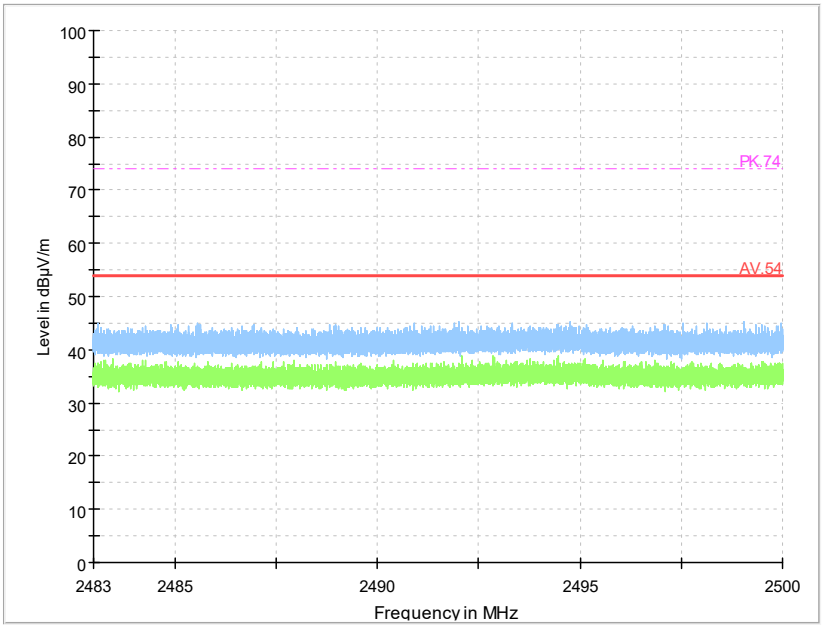
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization：V
ANT MIMO



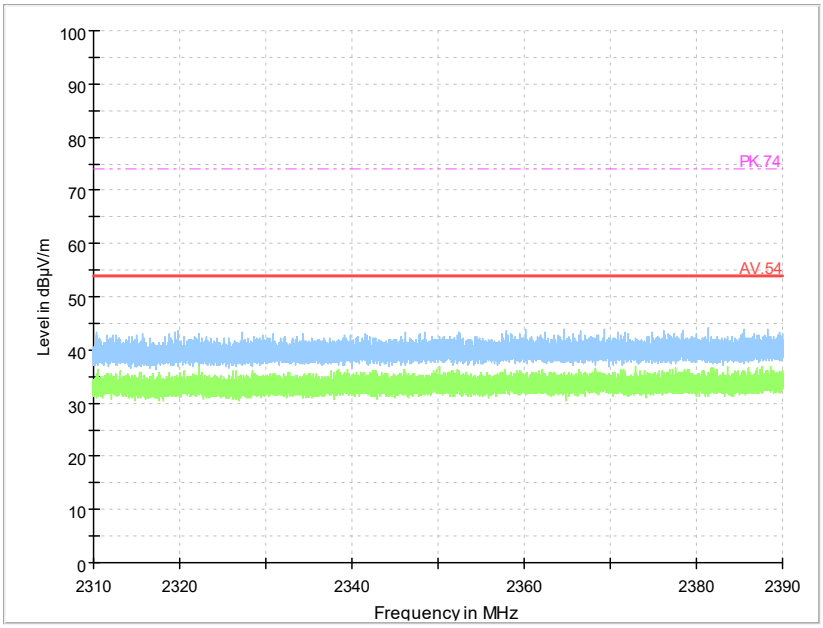
Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization：H
ANT MIMO



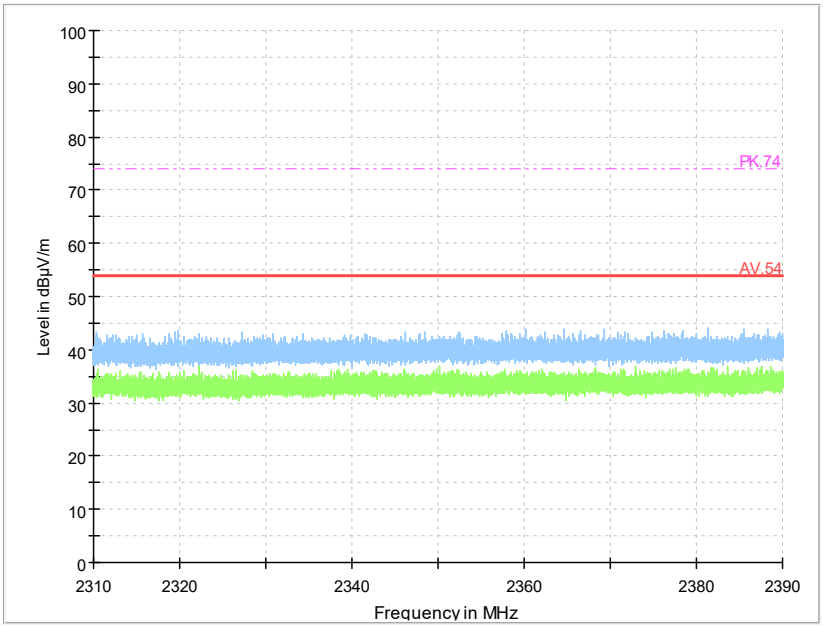
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization：V
ANT MIMO



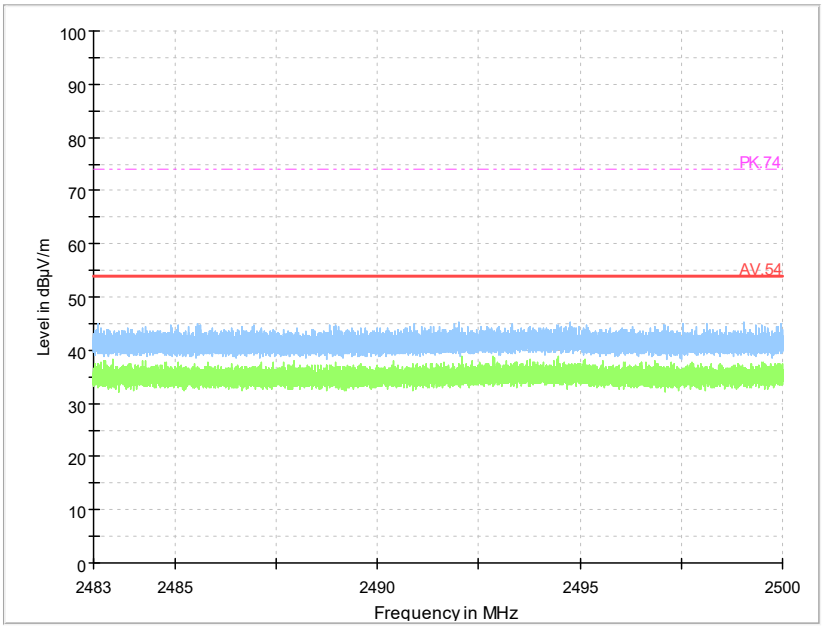
Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization：H
ANT MIMO



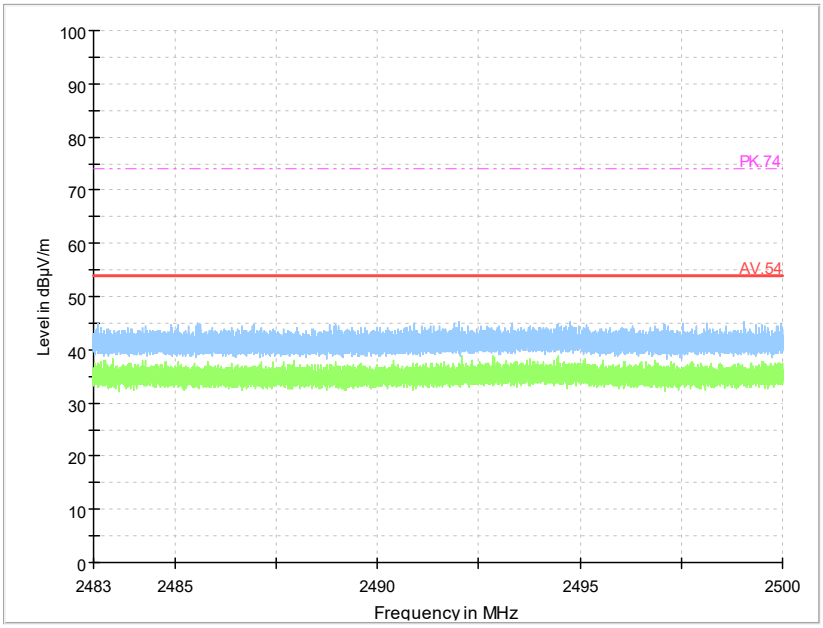
Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n40
Polarization：V
ANT MIMO



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



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



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

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:
Result= P_{mea}+ A_{Rpl}
Sample calculation: (6.22dBμV/m) = (24.52dBμV) + (-18.3dB/m), the corresponding frequency is46.587MHz.

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

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

For 802.11b Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
47.908	17.40	-23.0	40.40	Vertical	30.00	12.60
52.505	20.45	-23.0	43.45	Vertical	30.00	9.55
61.004	18.13	-24.0	42.13	Vertical	30.00	11.87
78.860	13.91	-29.0	42.91	Vertical	30.00	16.09
90.112	13.62	-27.0	40.62	Vertical	33.50	19.88
200.091	15.58	-24.0	39.58	Vertical	33.50	17.92

For 802.11g Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
54.297	22.40	-23	45.40	Vertical	30.00	7.60
57.774	20.62	-24	44.62	Vertical	30.00	9.38
60.727	20.57	-24	44.57	Vertical	30.00	9.43
63.823	19.20	-25	44.20	Vertical	30.00	10.80
221.033	20.69	-23	43.69	Vertical	36.00	15.31
269.956	18.91	-22	40.91	Vertical	36.00	17.09

For 802.11n(HT20) Channel No.:1

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
52.019	20.57	-23.0	43.57	Vertical	30.00	9.43
54.296	21.75	-23.0	44.75	Vertical	30.00	8.25
57.259	20.80	-24.0	44.80	Vertical	30.00	9.20
70.289	16.82	-27.0	43.82	Vertical	30.00	13.18
221.131	19.89	-23.0.	42.89	Vertical	36.00	16.11
278.769	19.26	-21.0	40.26	Vertical	36.00	16.74

For 802.11b Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.483	17.58	-23.0	40.58	Vertical	30.00	12.42
54.468	19.76	-23.0	42.76	Vertical	30.00	10.24
57.782	18.59	-24.0	42.59	Vertical	30.00	11.41
220.839	21.66	-23.0	44.66	Vertical	36.00	14.34
281.822	19.39	-21.0	40.39	Vertical	36.00	16.61
346.361	19.94	-19.0	38.94	Vertical	36.00	16.06

For 802.11g Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
51.826	21.62	-23.0	44.62	Vertical	30.00	8.38
54.204	21.59	-23.0	44.59	Vertical	30.00	8.41
57.302	21.20	-24.0	45.20	Vertical	30.00	8.80
220.834	19.07	-23.0	42.07	Vertical	36.00	16.93
278.866	18.60	-21.0	39.60	Vertical	36.00	17.40
336.195	18.21	-19.0	37.21	Vertical	36.00	17.79

For 802.11n(HT20) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
54.404	19.62	-23.0	42.62	Vertical	30.00	10.38
57.623	19.64	-24.0	43.64	Vertical	30.00	10.36
64.285	21.18	-25.0	46.18	Vertical	30.00	8.82
221.063	19.76	-23.0	42.76	Vertical	36.00	16.24
280.471	18.81	-21.0	39.81	Vertical	36.00	17.19
343.225	17.76	-19.0	36.76	Vertical	36.00	18.25

For 802.11b Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.480	14.55	-26.0	40.55	Vertical	30.00	14.55
60.808	19.42	-24.0	43.42	Vertical	30.00	19.42
63.894	19.43	-25.0	44.43	Vertical	30.00	19.43
67.120	17.01	-26.0	43.01	Vertical	30.00	17.01
280.172	18.52	-21.0	39.52	Vertical	36.00	18.52
388.265	11.88	-18.0	29.88	Vertical	36.00	11.88

For 802.11g Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl	Pmea	Polarity	Limit	Margin

		(dB)	(dBuV/m)		(dBuV/m)	(dB)
52.139	21.90	-23.0	44.90	Vertical	30.00	8.10
54.524	21.92	-23.0	44.92	Vertical	30.00	8.08
63.842	18.85	-25.0	43.85	Vertical	30.00	11.15
83.613	11.78	-28.0	39.78	Vertical	30.00	18.22
220.960	20.28	-23.0	43.28	Vertical	36.00	15.72
276.846	19.00	-21.0	40.00	Vertical	36.00	17.00

For 802.11n(HT20) Channel No.:11

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
60.893	19.45	-24.0	43.45	Vertical	30.00	10.55
67.325	18.31	-26.0	44.31	Vertical	30.00	11.69
78.247	14.11	-29.0	43.11	Vertical	30.00	15.89
106.896	17.98	-25.0	42.98	Vertical	33.50	15.52
221.171	19.56	-23.0	42.56	Vertical	36.00	16.44
282.309	18.21	-21.0	39.21	Vertical	36.00	17.79

For 802.11n(HT40) Channel No.:3

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
52.585	17.94	-23.0	40.94	Vertical	30.00	12.06
57.679	18.72	-24.0	42.72	Vertical	30.00	11.28
64.250	19.83	-25.0	44.83	Vertical	30.00	10.17
106.896	16.75	-25.0	41.75	Vertical	33.50	16.75
177.979	6.63	-26.0	32.63	Vertical	33.50	26.87
221.228	19.77	-23.0	42.77	Vertical	36.00	16.23

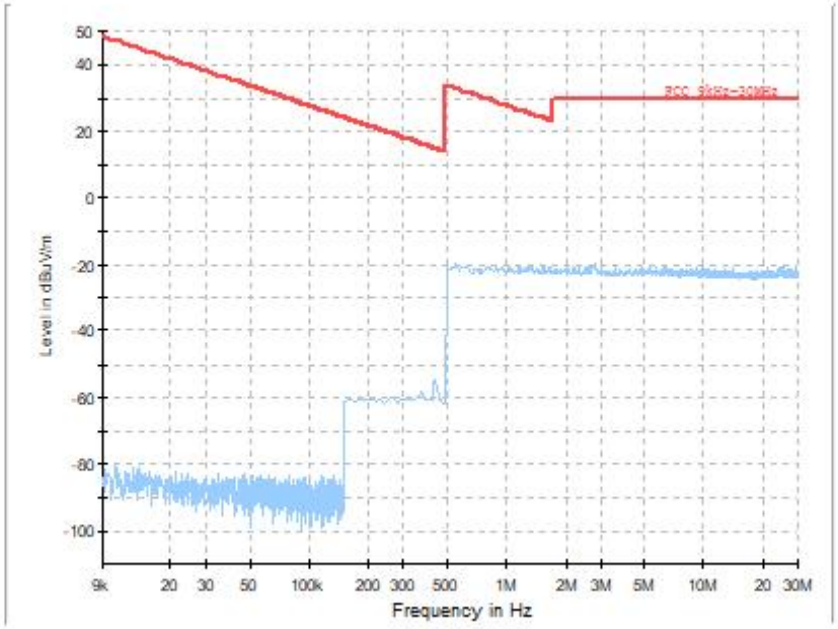
For 802.11n(HT40) Channel No.:6

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
48.591	16.38	-23.0	39.38	Vertical	30.00	13.62
54.577	18.91	-23.0	41.91	Vertical	30.00	11.09
61.342	19.24	-25.0	44.24	Vertical	30.00	10.76
106.896	17.95	-25.0	42.95	Vertical	33.50	15.55
221.137	20.31	-23.0	43.31	Vertical	36.00	15.69
294.181	16.21	-21.0	37.21	Vertical	36.00	19.79

For 802.11n(HT40) Channel No.:9

Frequency(MHz)	Result(dBuV/m)	ARpl (dB)	Pmea (dBuV/m)	Polarity	Limit (dBuV/m)	Margin (dB)
30.482	14.12	-26.0	40.12	Vertical	30.00	15.88
61.224	19.73	-24.0	43.73	Vertical	30.00	10.27
64.170	20.16	-25.0	45.16	Vertical	30.00	9.84

106.904	11.08	-25.0.	36.08	Vertical	33.50	22.42
220.941	19.34	-23.0	42.34	Vertical	36.00	16.66
276.957	18.51	-21.0	39.51	Vertical	36.00	17.49

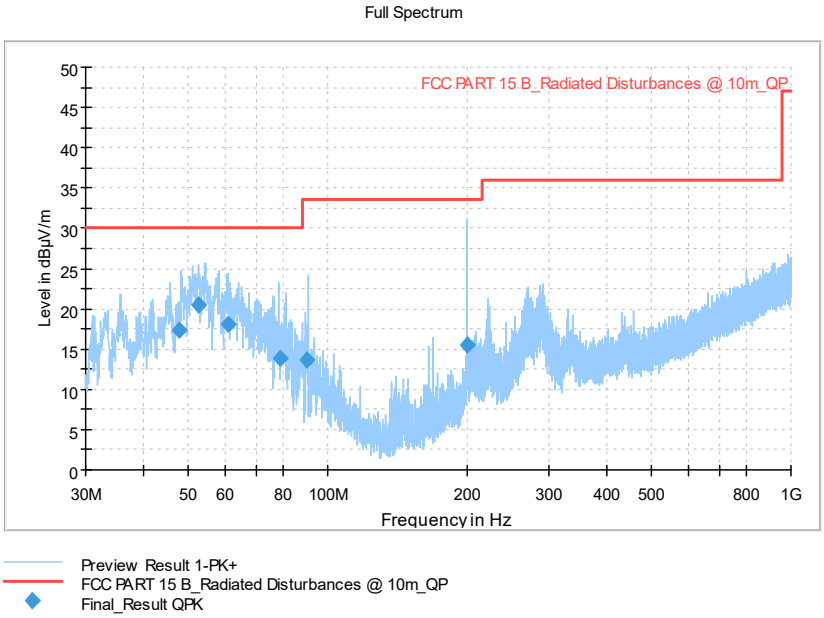


Frequency Range: 9kHz -30MHz
Detector: QP mode

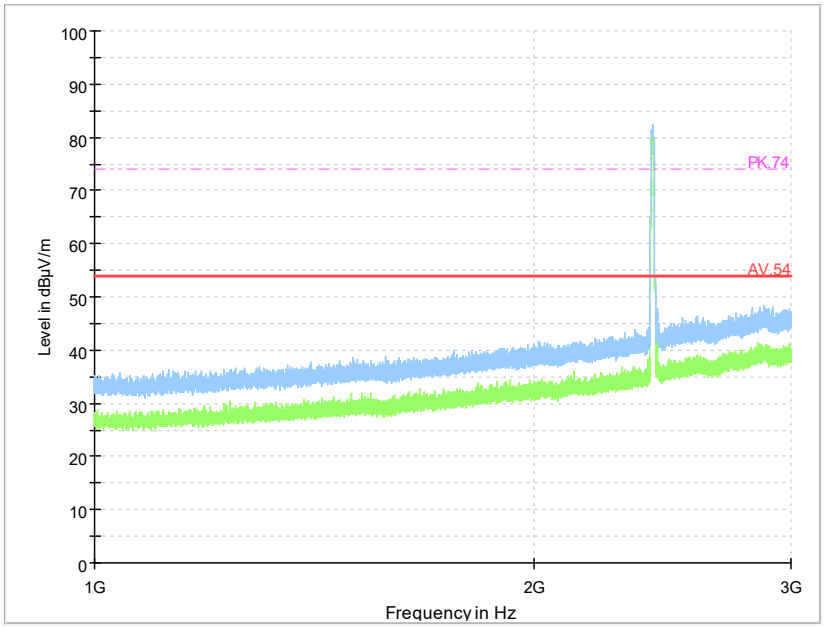
Note：The relevant tests have been performed in order to verify in which mode would have the worstfeatures, the result show above is the worst case.

Carrier frequency (MHz): 2412

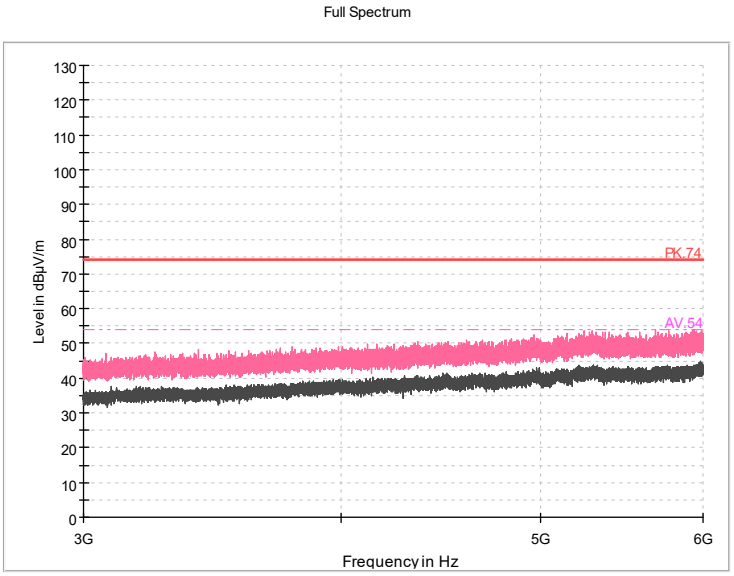
Channel No.:1



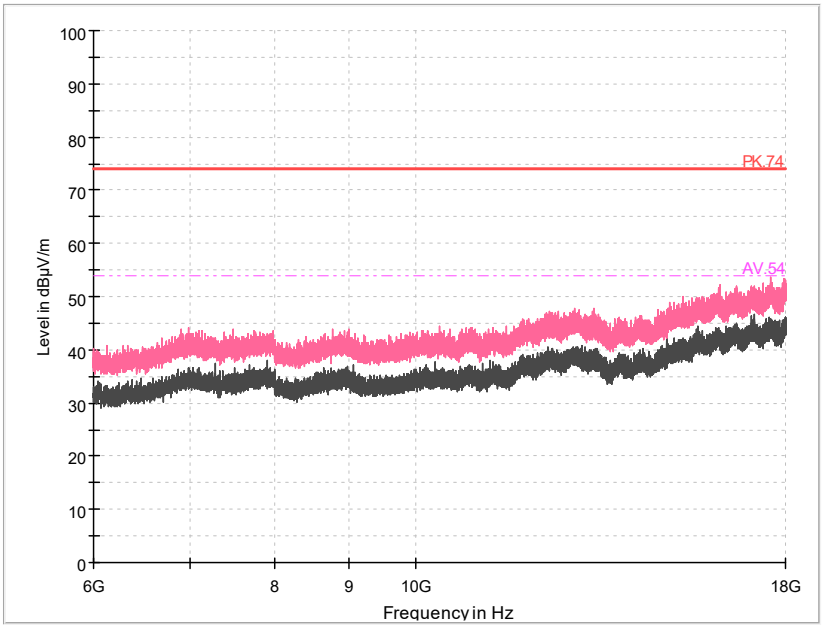
Frequency Range30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



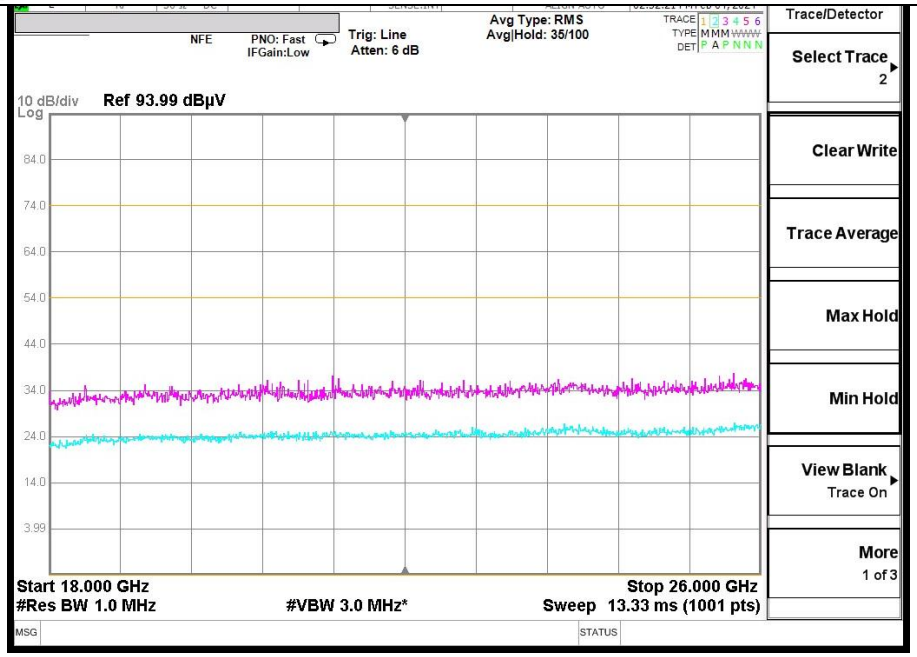
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



Frequency Range: 3GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

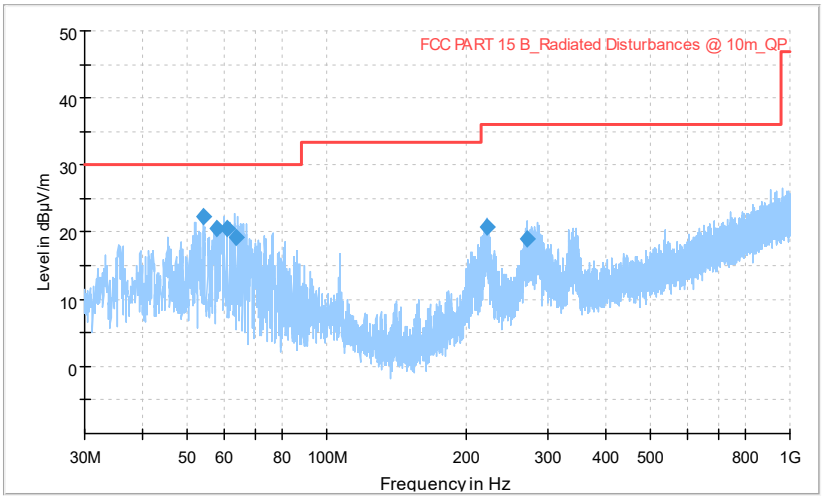


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



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

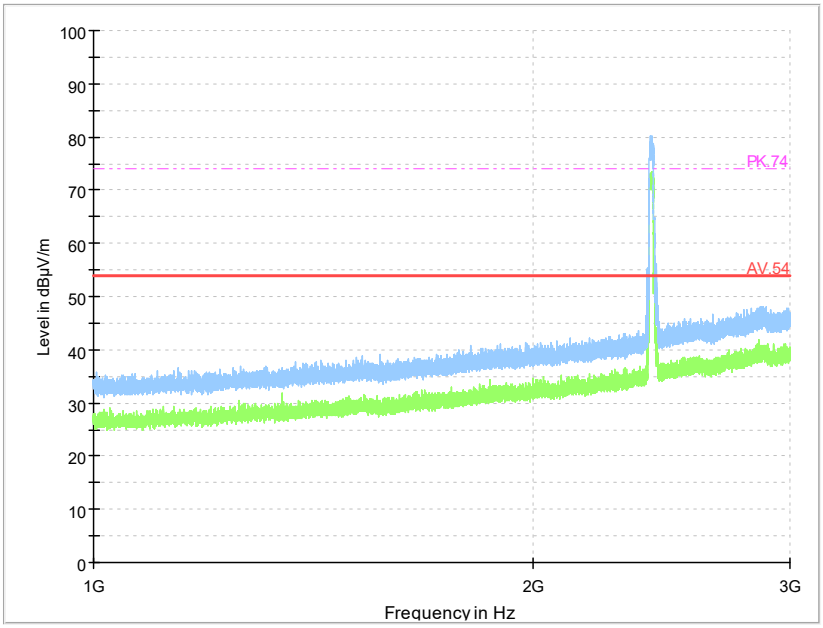
Full Spectrum



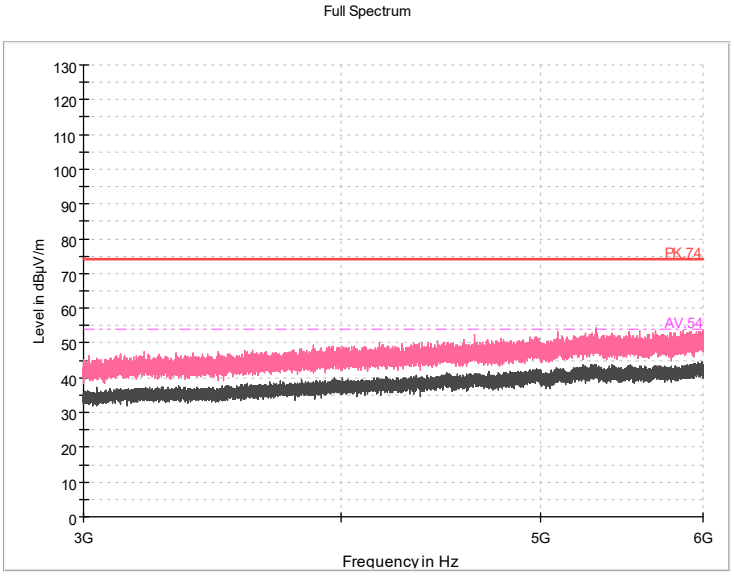
Preview Result 1-PK+
FCC PART 15 B_Radiated Disturbances @ 10m_QP
Final_Result QPK

Comment

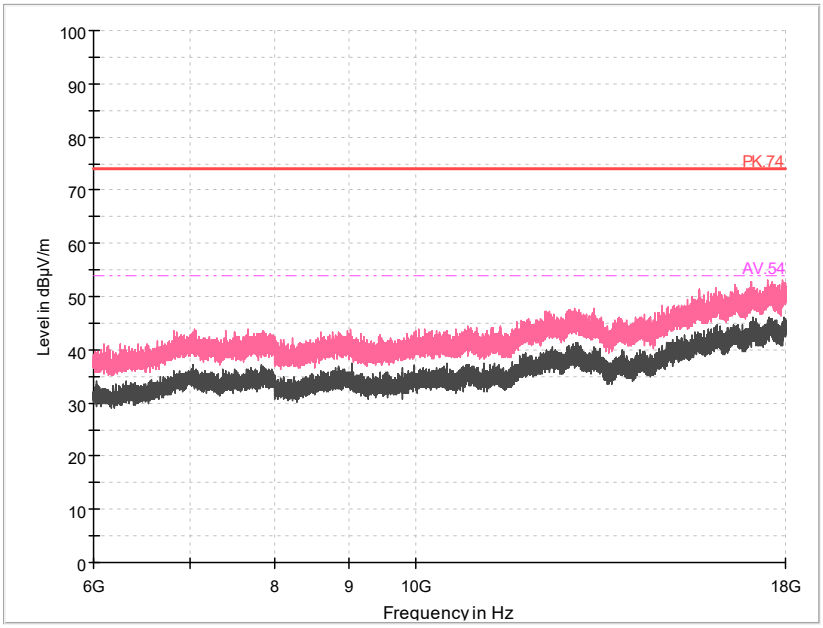
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



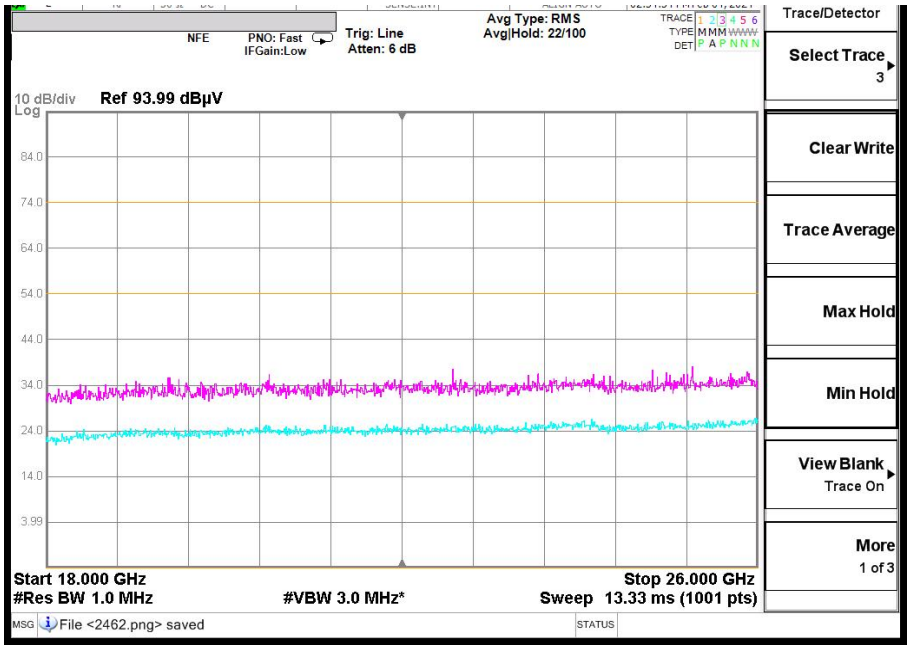
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



Frequency Range: 3GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

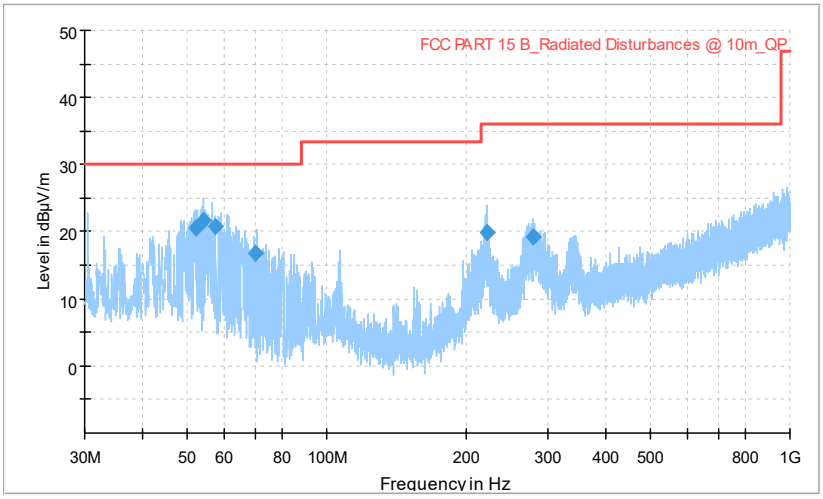


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



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

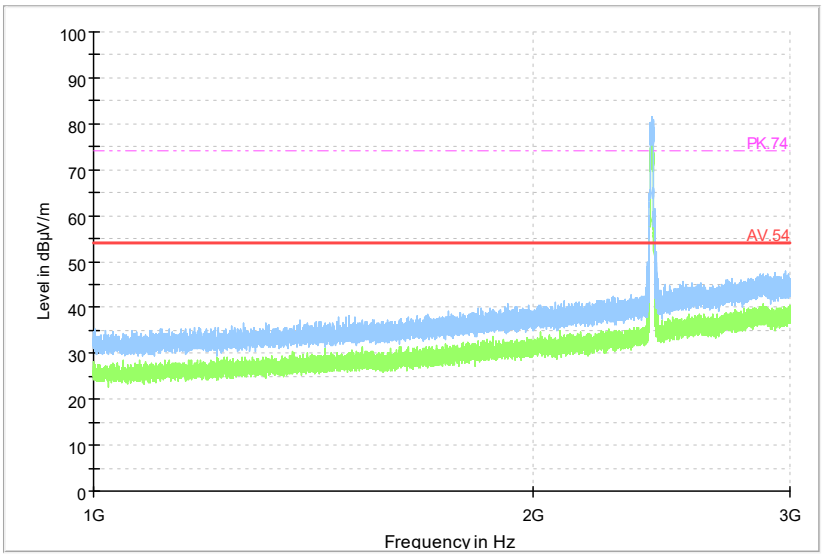
Full Spectrum



Preview Result 1-PK+
FCC PART 15 B_Radiated Disturbances @ 10m_QP
Final_Result QPK

Comment

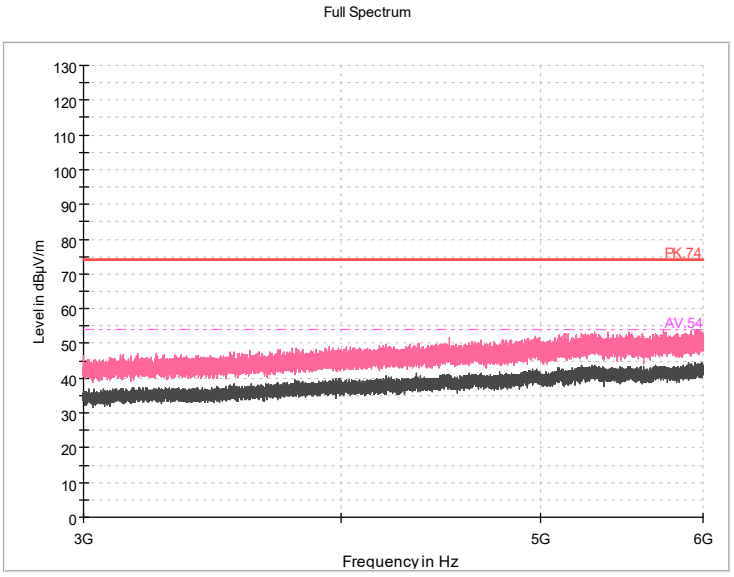
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



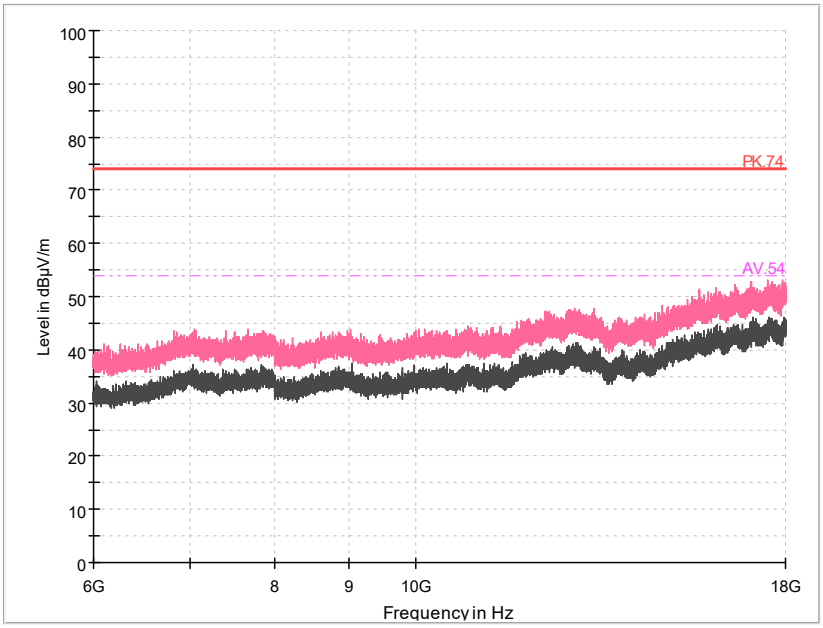
Preview Result 2-AVG
Preview Result 1-PK+
AV.54
PK.74

Comment

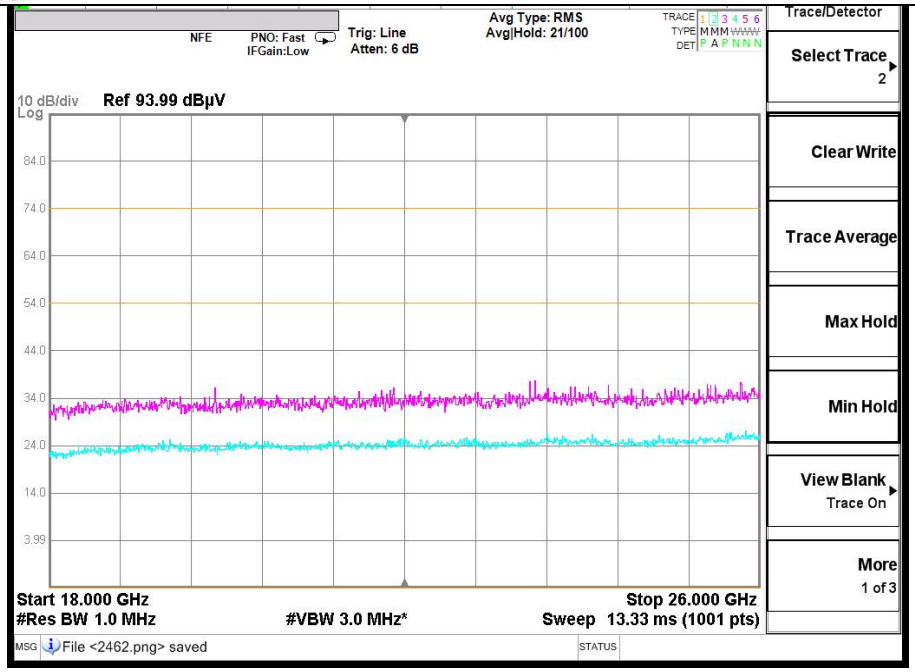
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



Frequency Range: 3GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

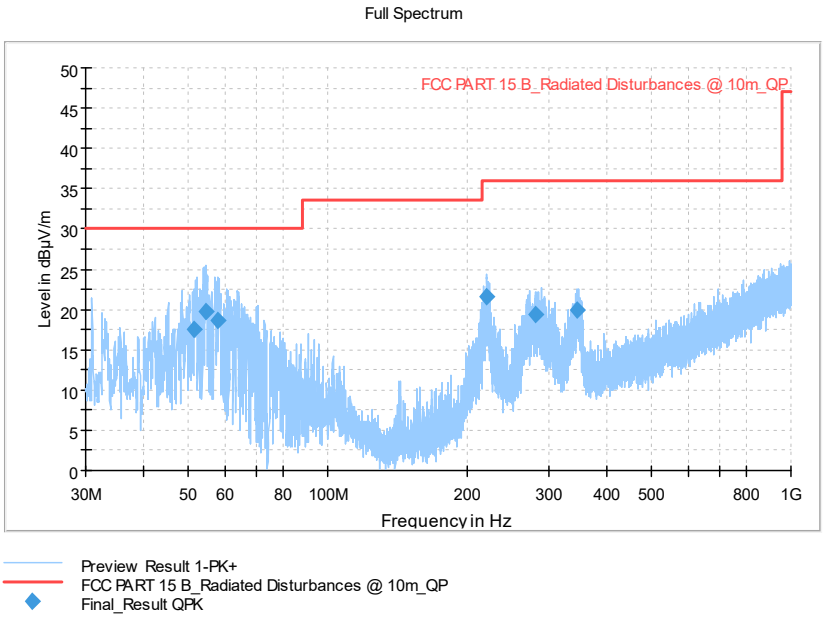


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

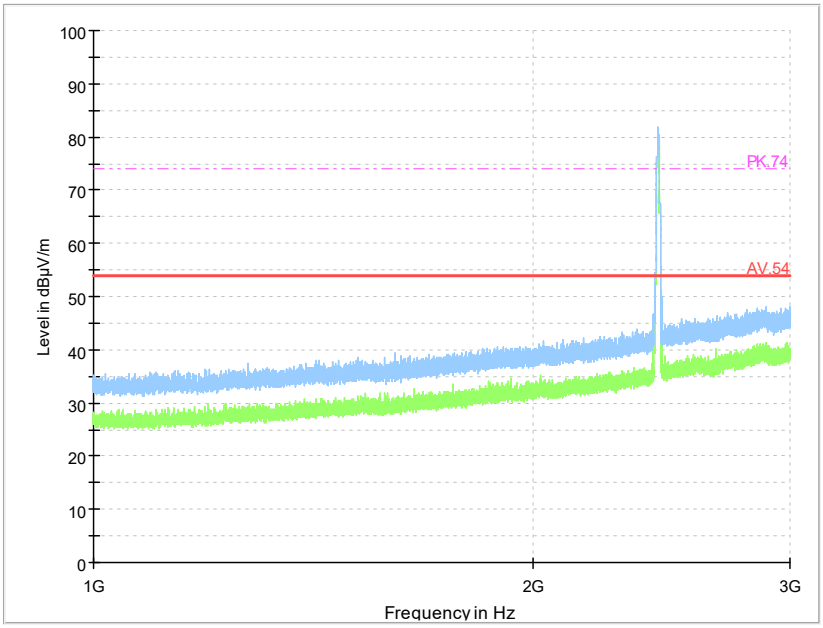


Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

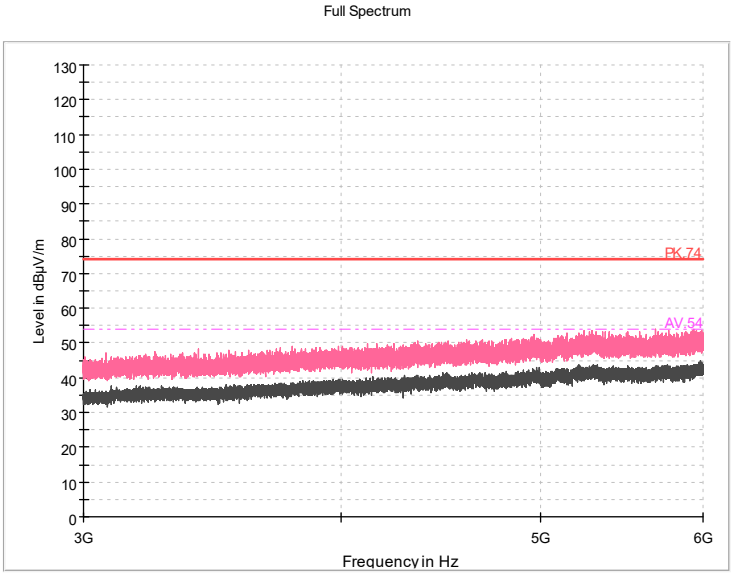
Carrier frequency (MHz): 2437
Channel No.:6



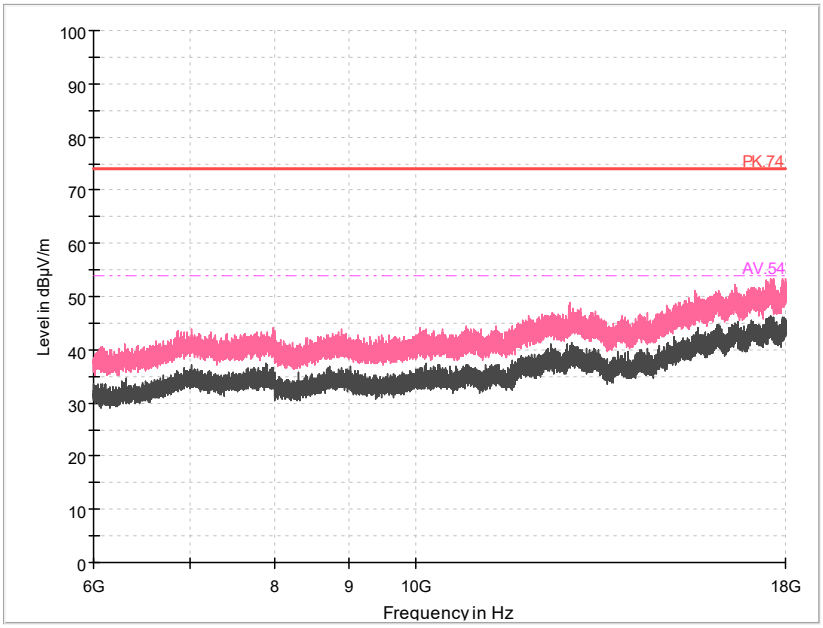
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



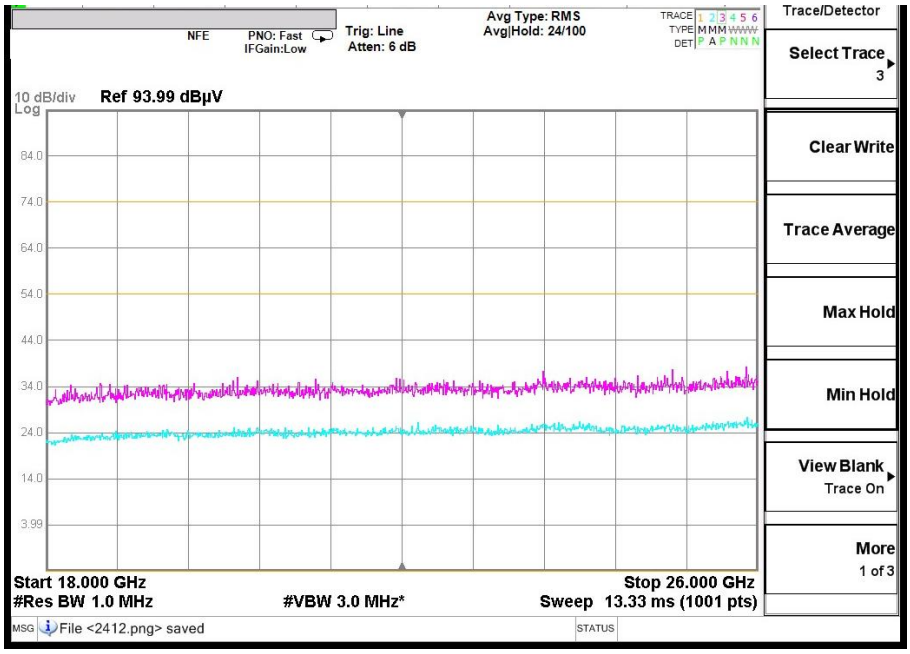
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



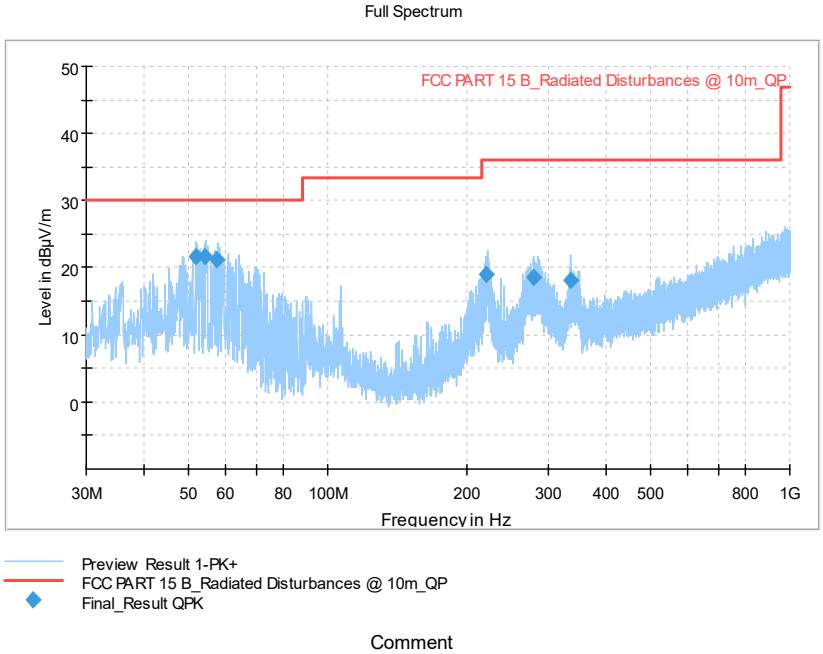
Frequency Range: 3GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



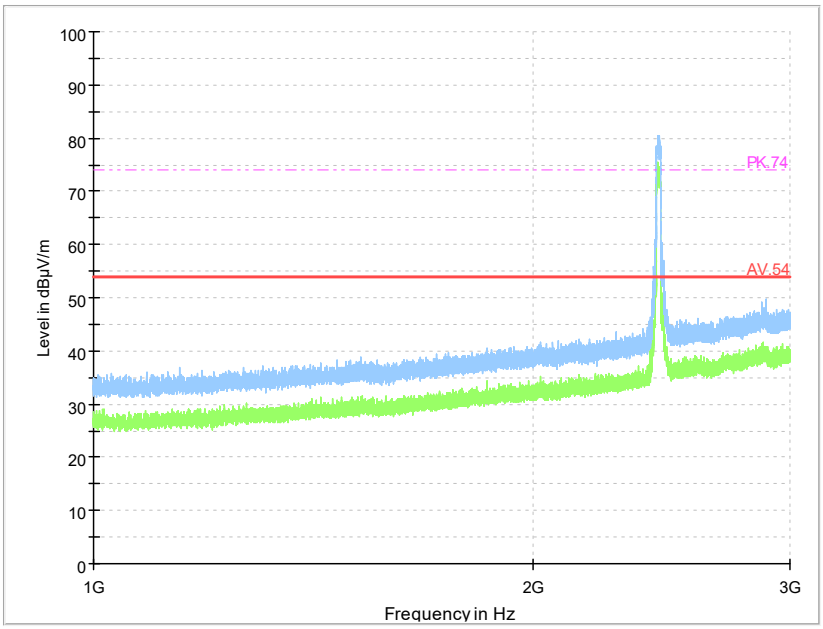
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



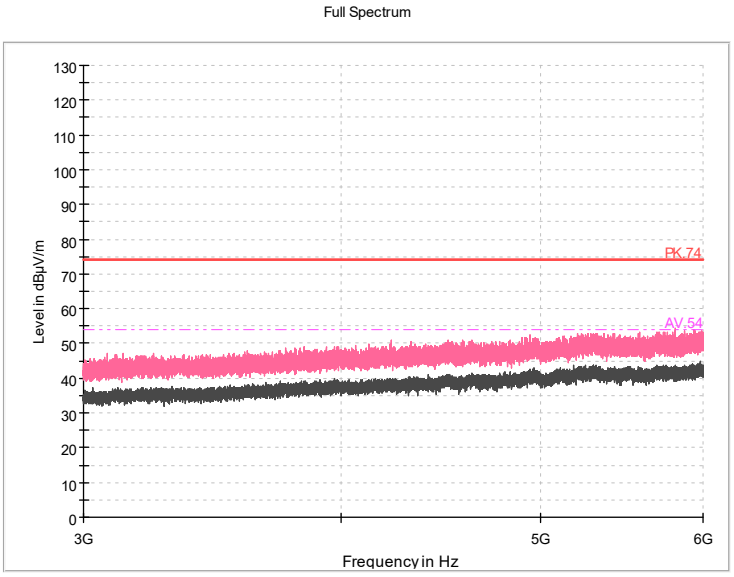
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



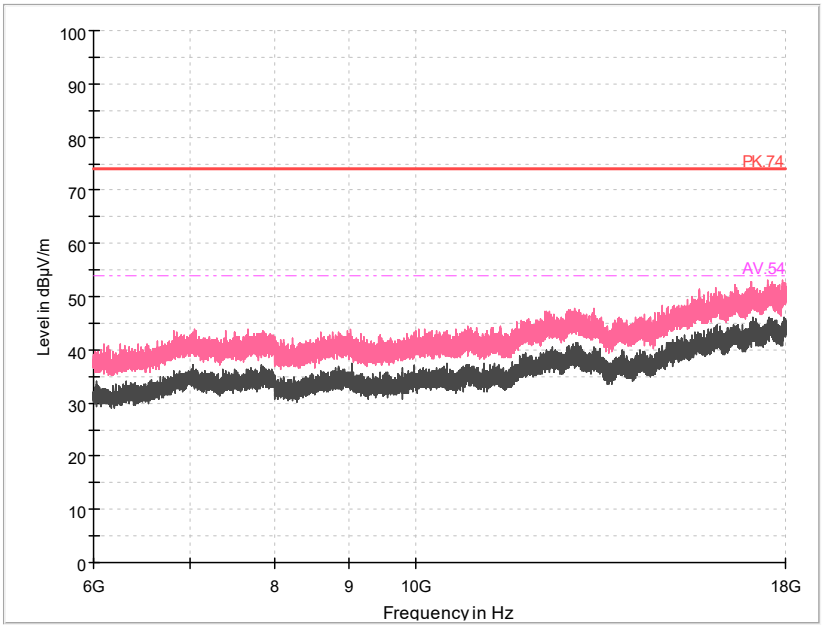
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



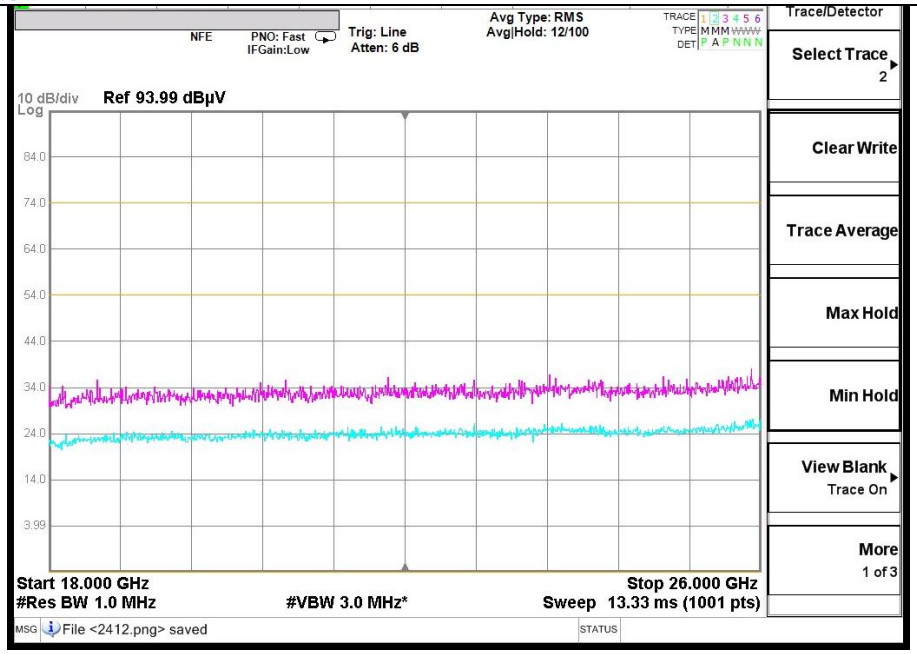
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



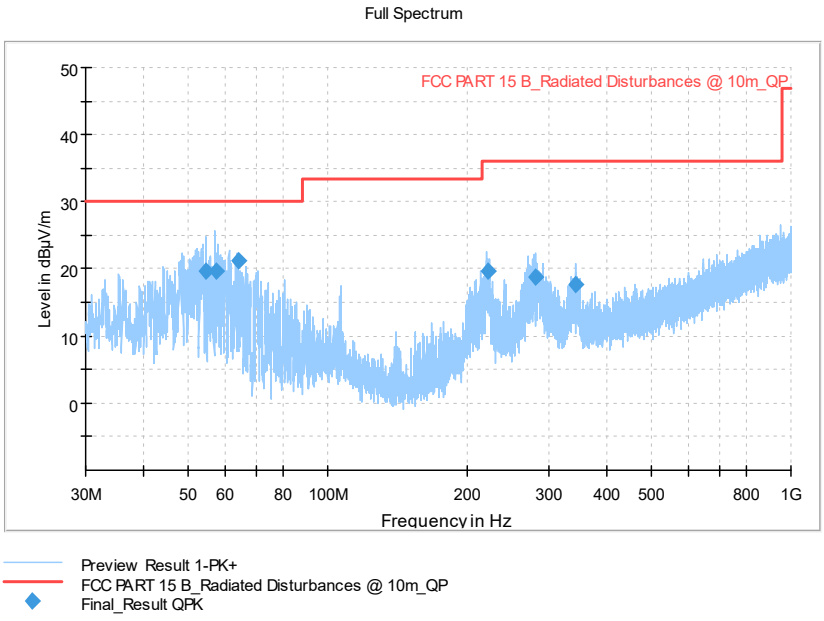
Frequency Range: 3GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



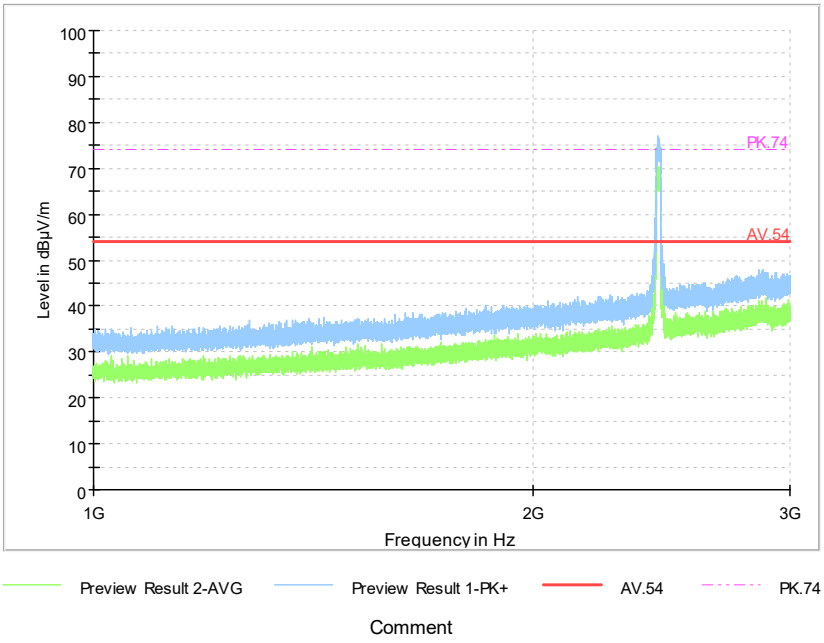
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



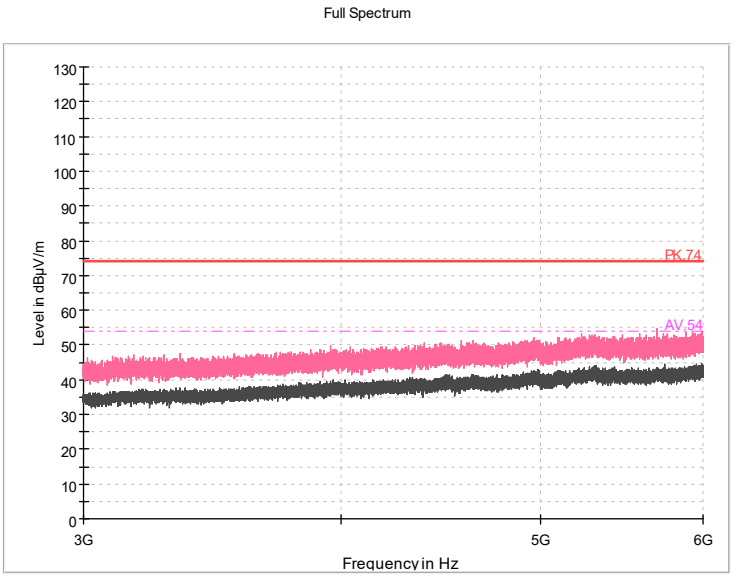
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



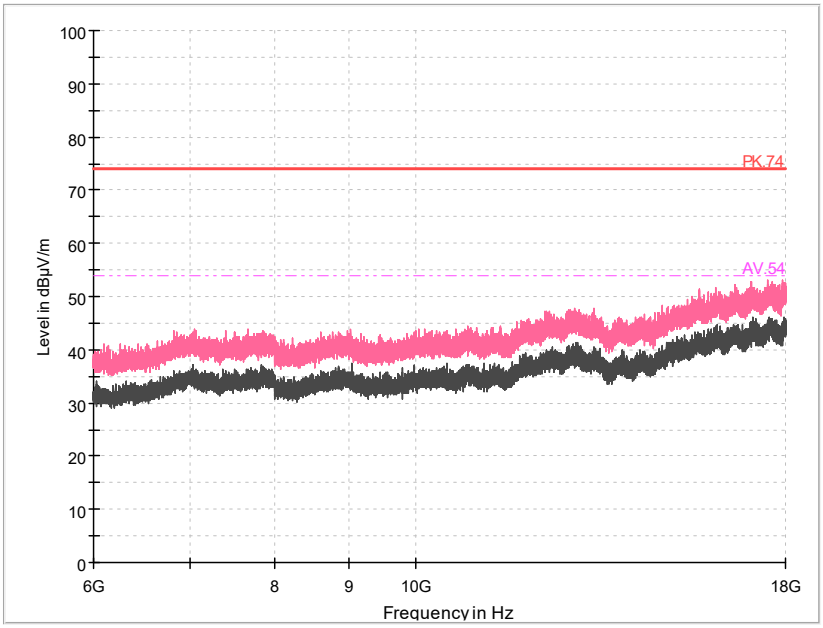
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



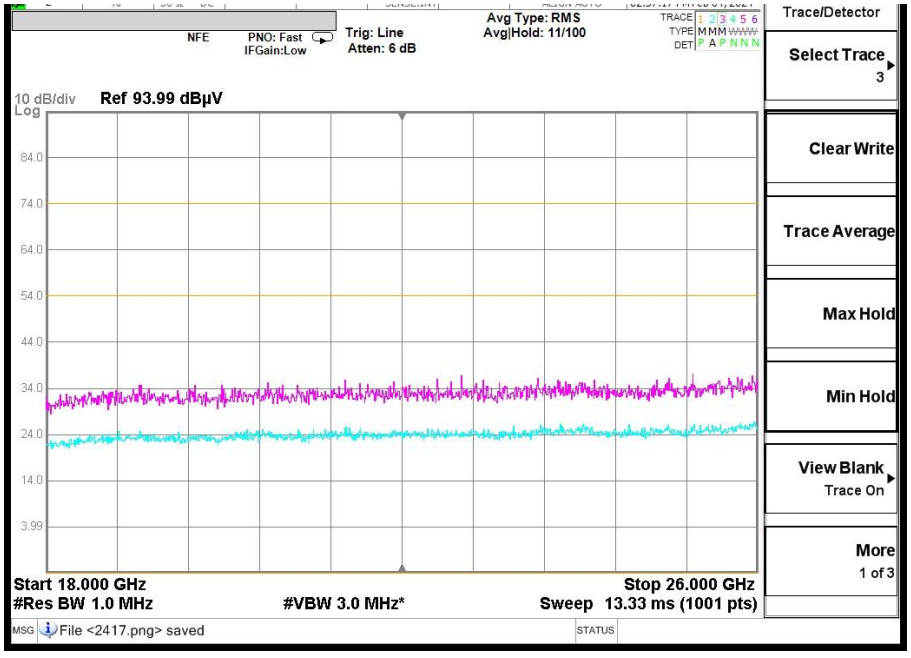
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



Frequency Range: 3GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

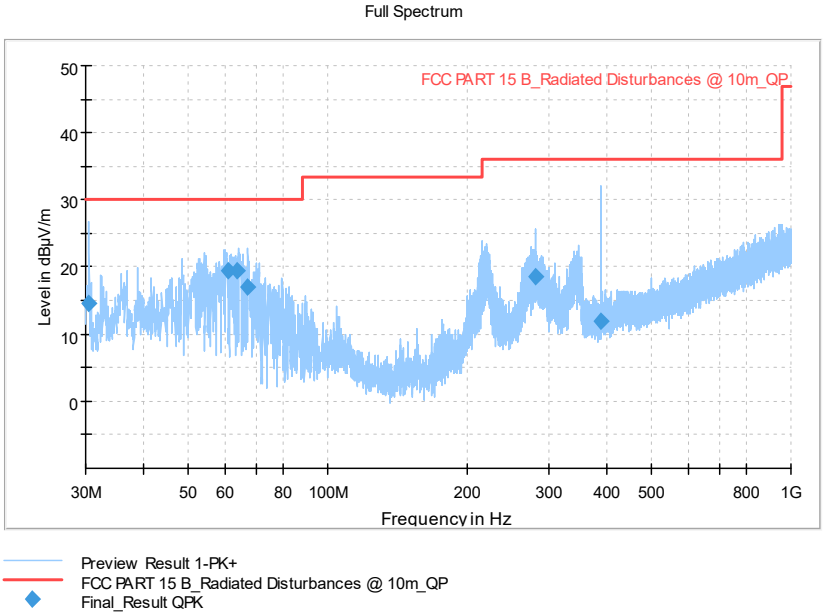


Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

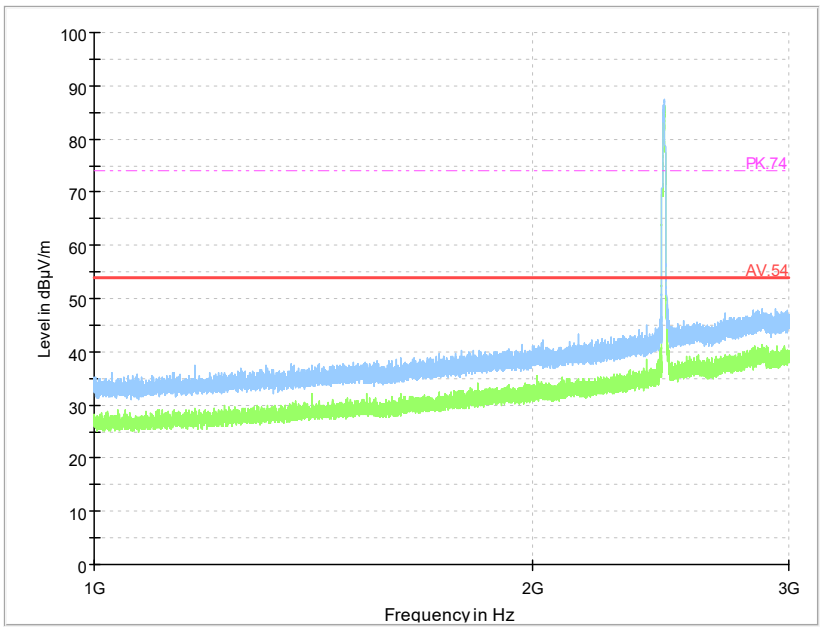


Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

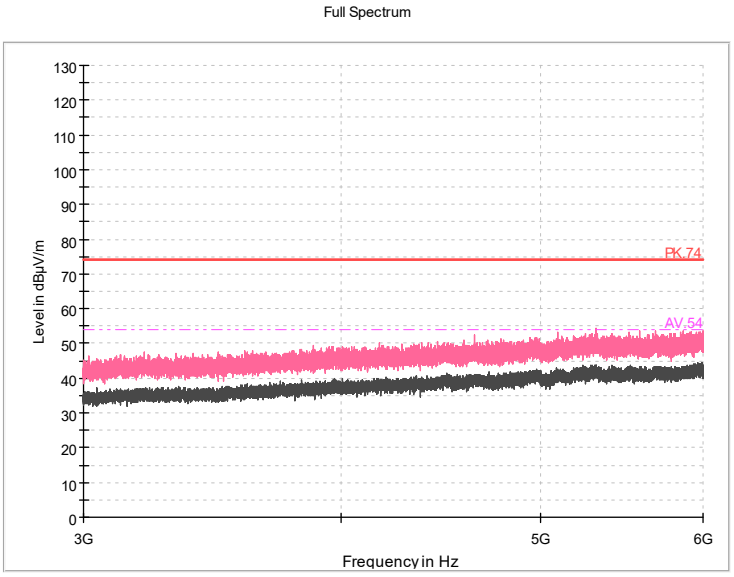
Carrier frequency (MHz): 2462
Channel No.:11



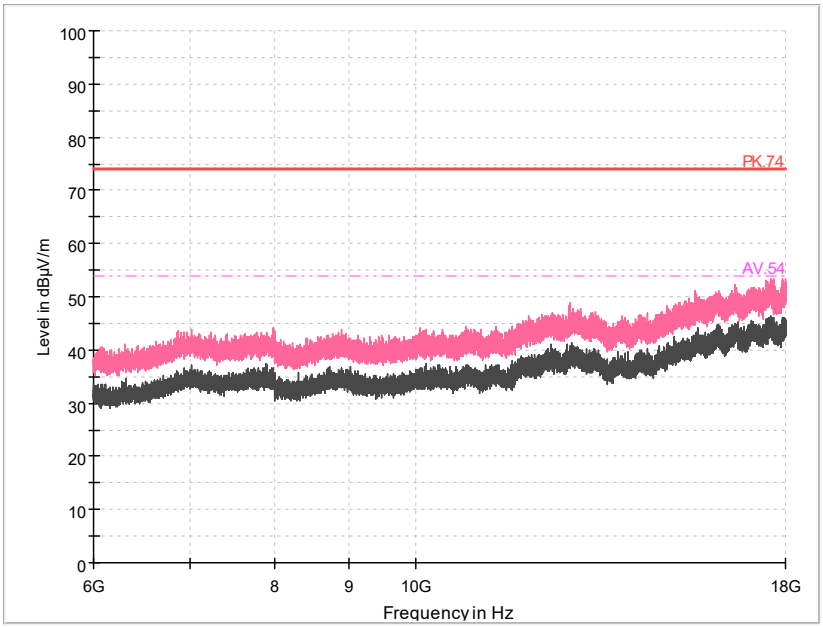
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



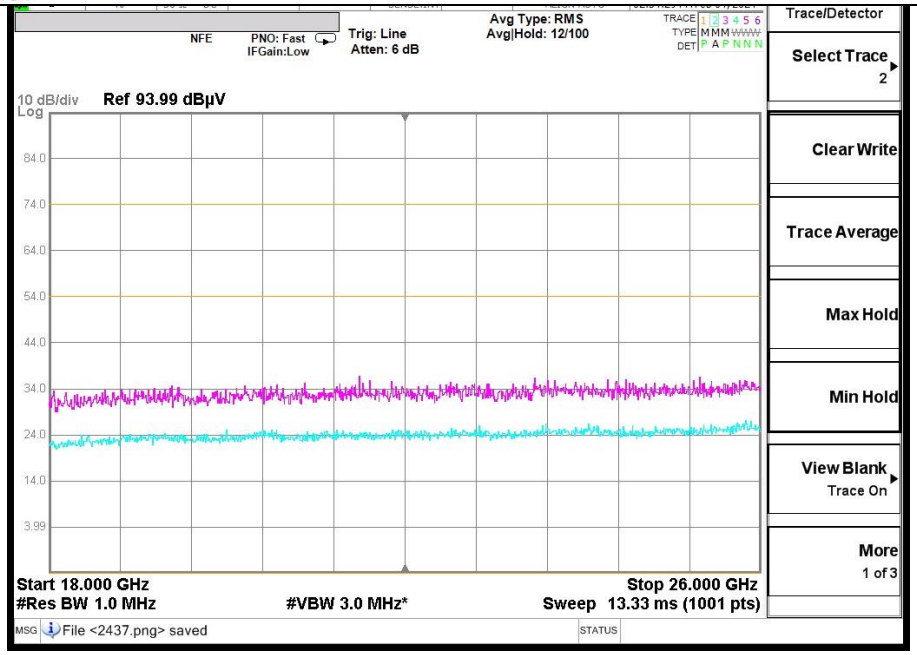
Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



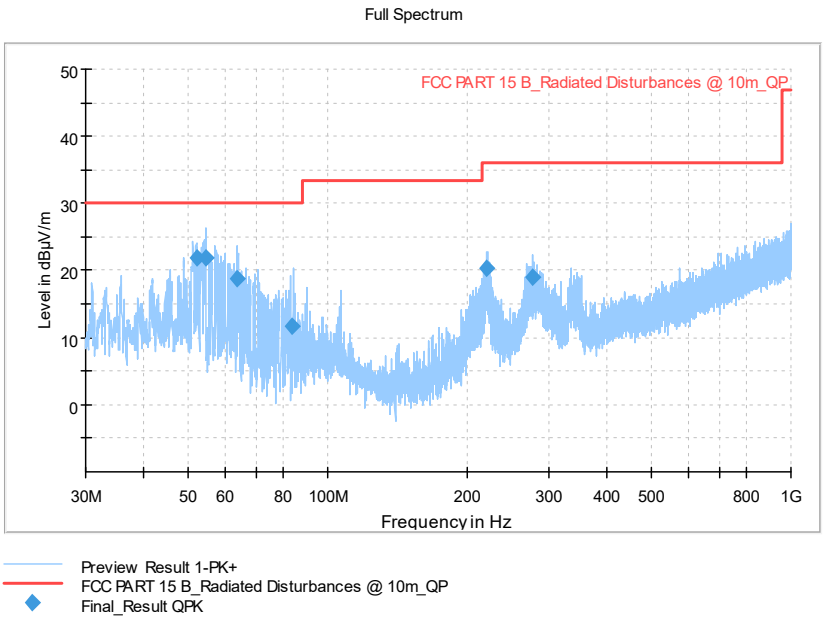
Frequency Range: 3GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



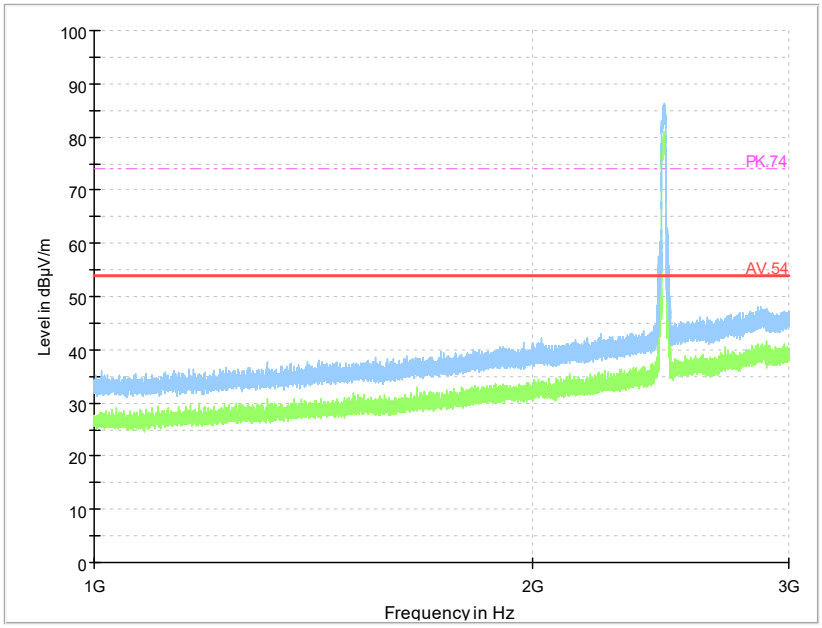
Frequency Range: 6GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



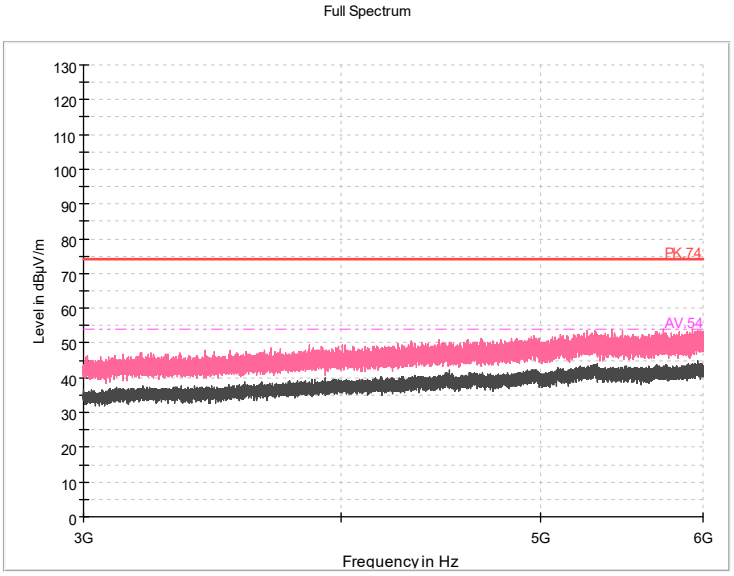
Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



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



Frequency Range: 3GHz -6GHz
Detector: Av mode and PK mode
Modulation type: 802.11g