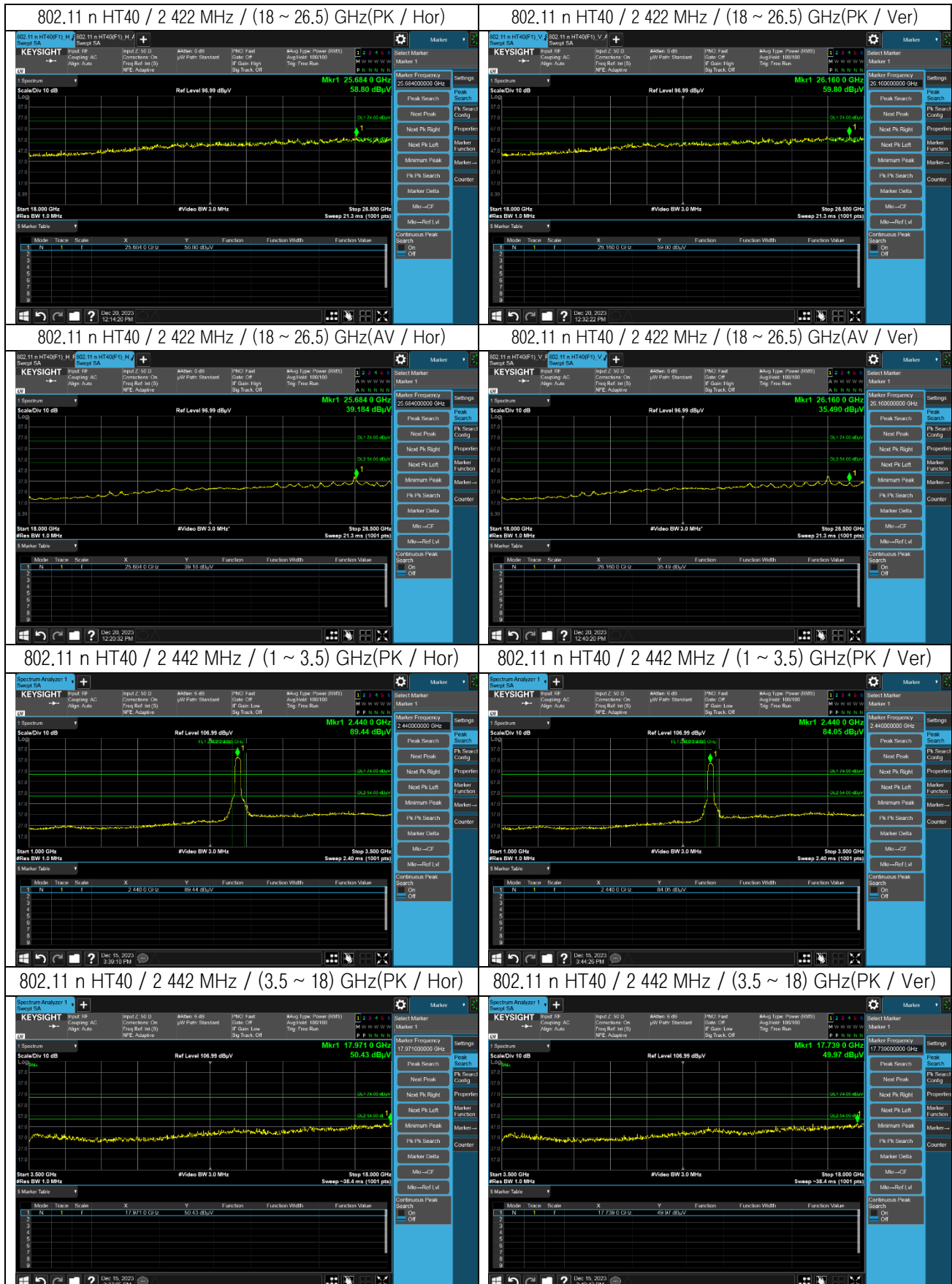
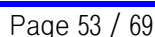
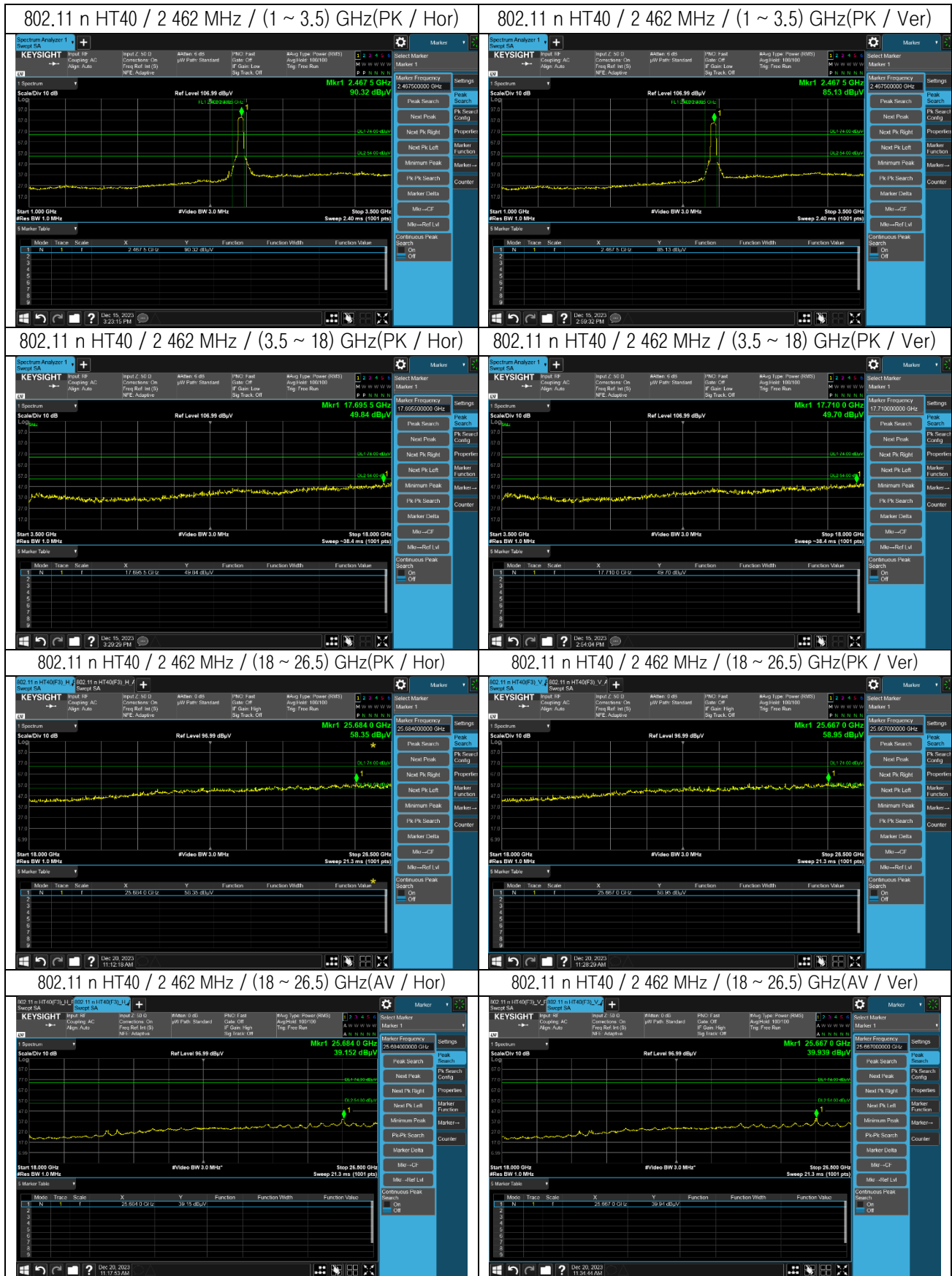


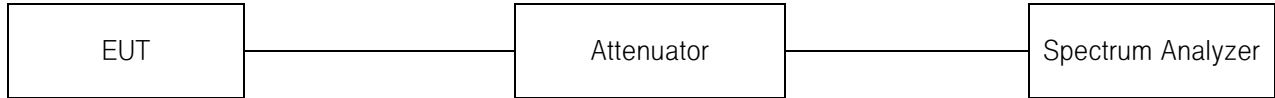






6.5. Conducted Spurious Emissions

■ Test Setup



■ Limit

According to § 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

■ Test procedure

ANSI C63.10 2013 Section 6.10.4 & Section 7.8.8 & Section 11.11

6.10.4 Authorized-band band-edge measurements (relative method)

- 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
- 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level.
- 3) Attenuation: Auto (at least 10 dB preferred).
- 4) Sweep time: Coupled.
- 5) Resolution bandwidth: 100 kHz., Video bandwidth: 300 kHz.
- 6) Detector: Peak., Trace: Max hold.

7.8.8 Conducted spurious emissions test methodology

- 1) Span : 30 MHz to 10 times the operating frequency in GHz.
- 2) RBW = 100 kHz., VBW = 300 kHz.
- 3) Sweep time = Coupled, Detector = peak.

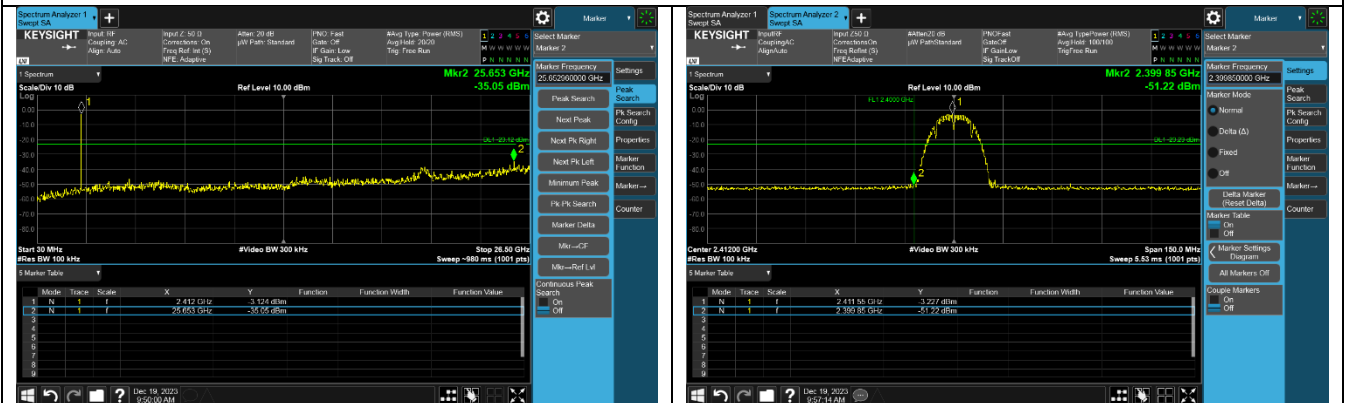
11.11.3 Emission level measurement

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz., Set the VBW $\geq [3 \times RBW]$.
- c) Detector = peak., Sweep time = auto couple., Trace mode = max hold.
- d) Allow trace to fully stabilize.
- e) Use the peak marker function to determine the maximum amplitude level.

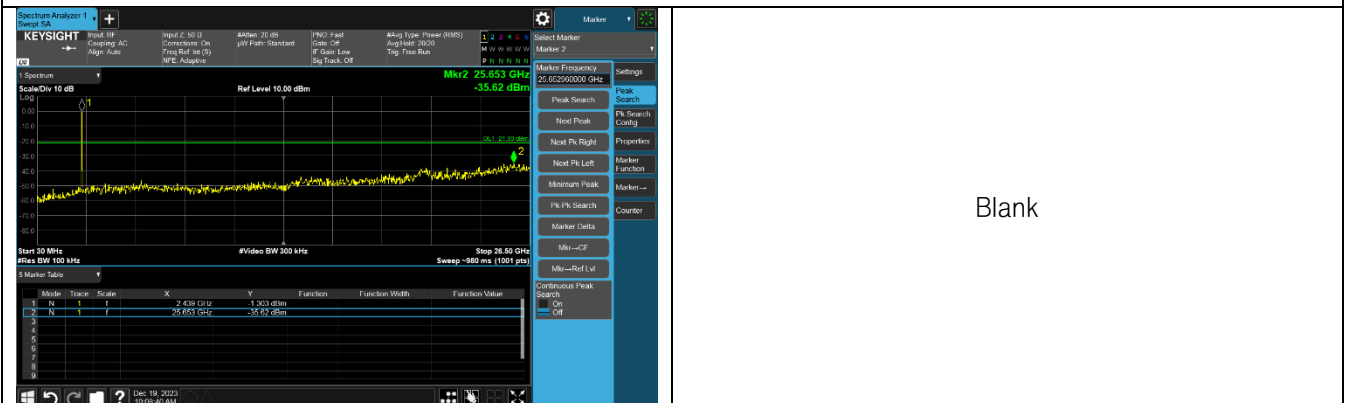
Test Result

[MIMO_ANT1]

802.11 b / 2 412 MHz

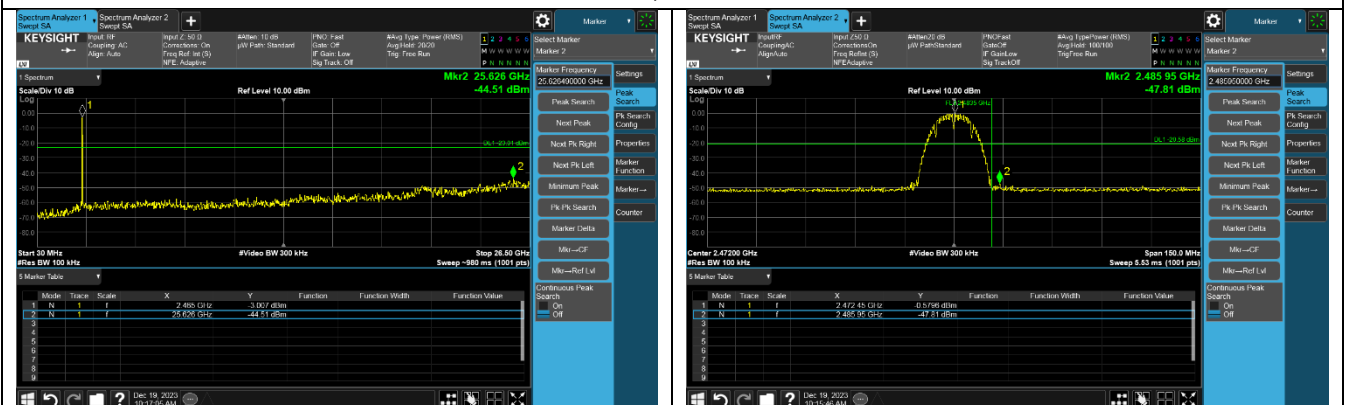


802.11 b / 2 442 MHz

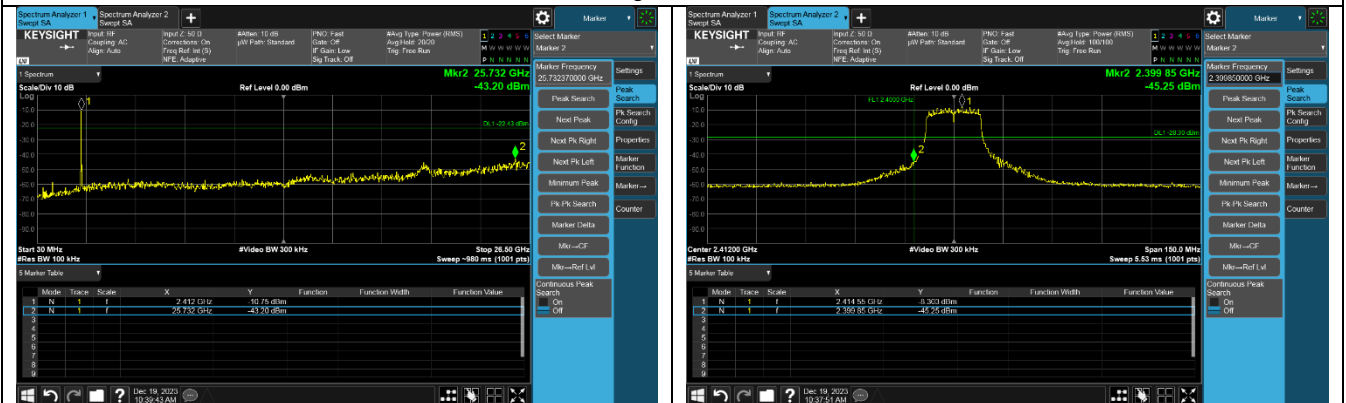


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802.11 b / 2 472 MHz



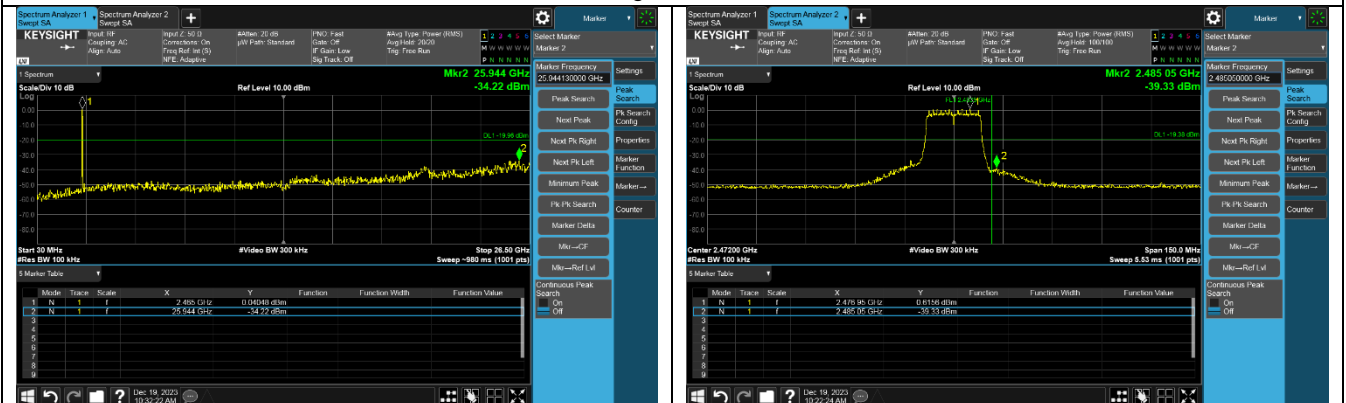
802.11 g / 2 412 MHz



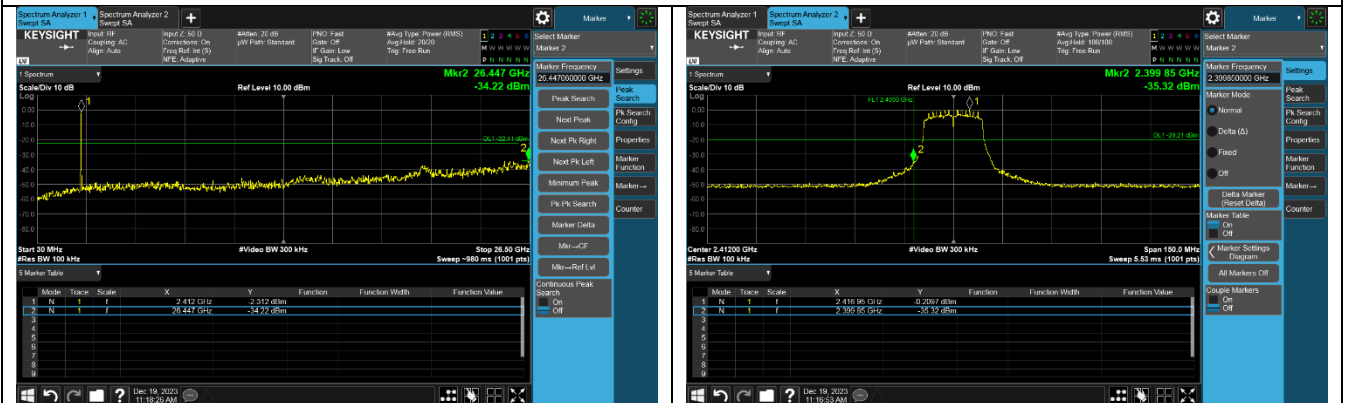
802.11 g / 2 442 MHz



802.11 g / 2 472 MHz



802.11 n HT20 / 2 412 MHz

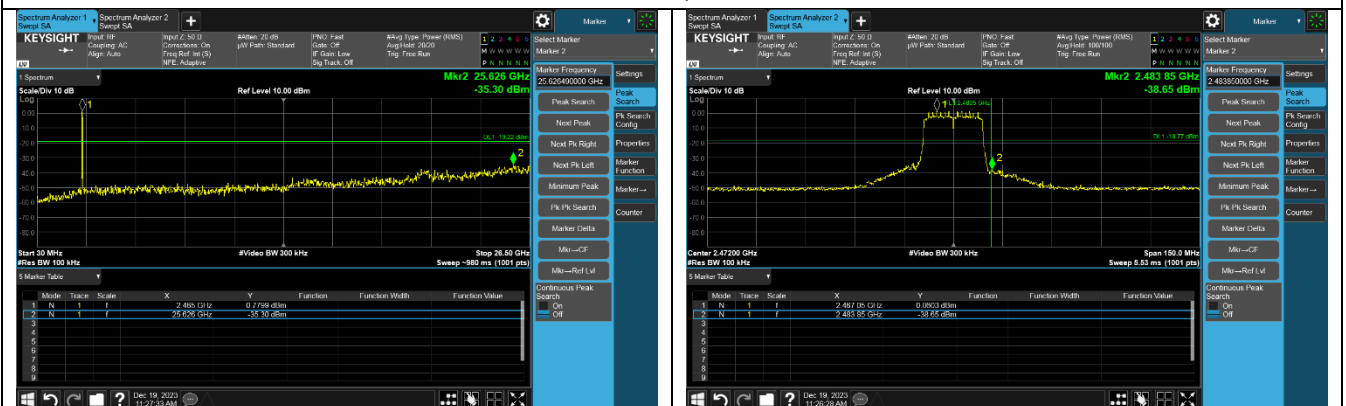


802.11 n HT20 / 2 442 MHz

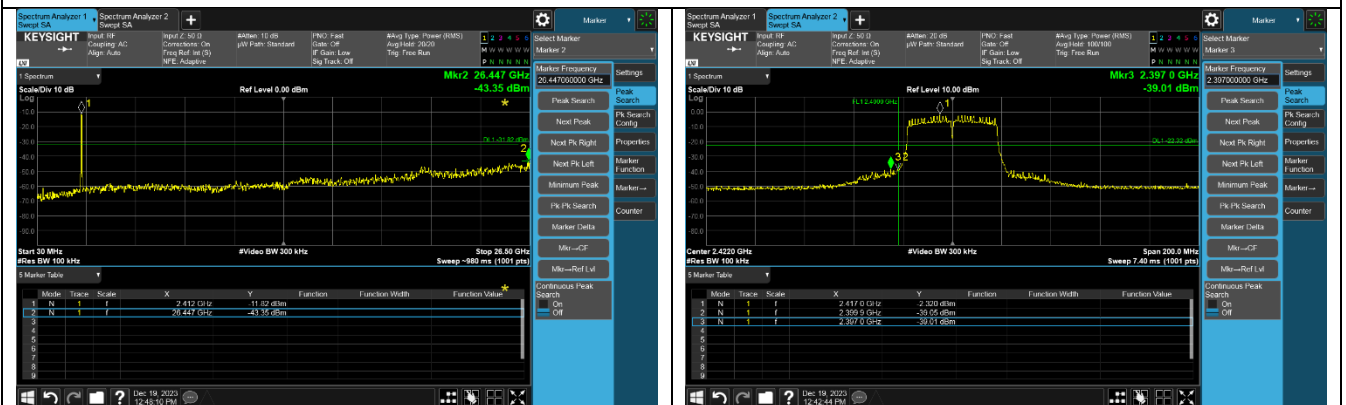


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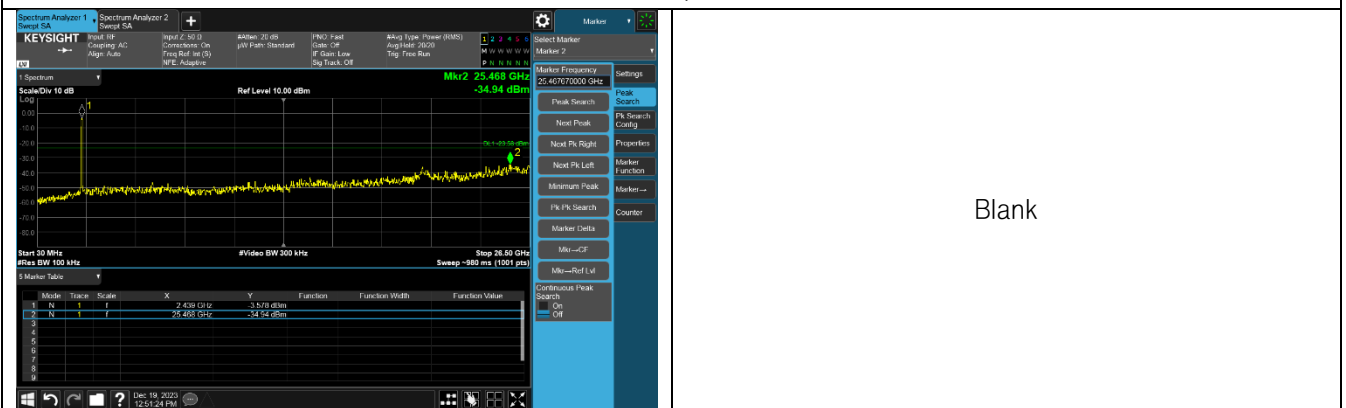
802.11 n HT20 / 2 472 MHz



802.11 n HT40 / 2 422 MHz



802.11 n HT40 / 2 442 MHz

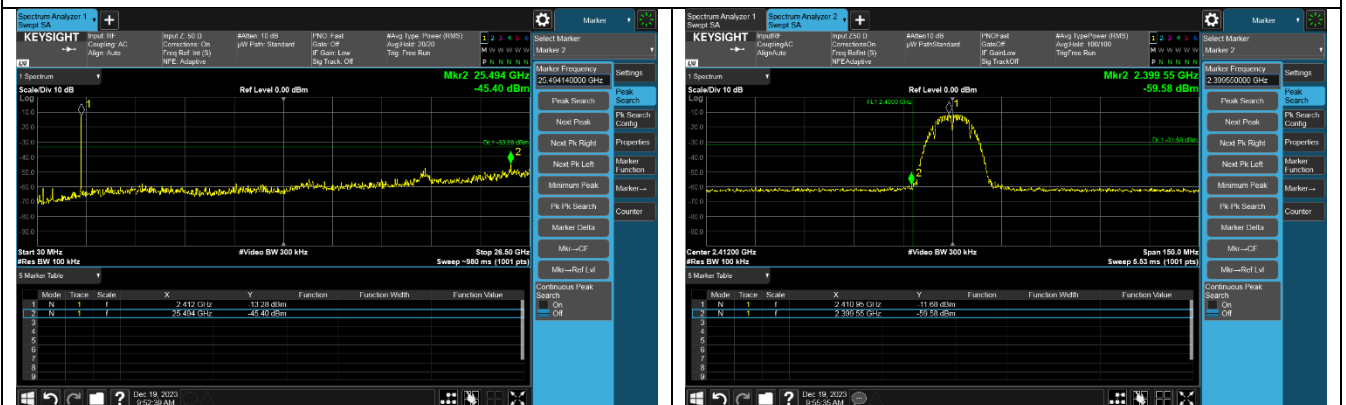


802.11 n HT40 / 2 462 MHz

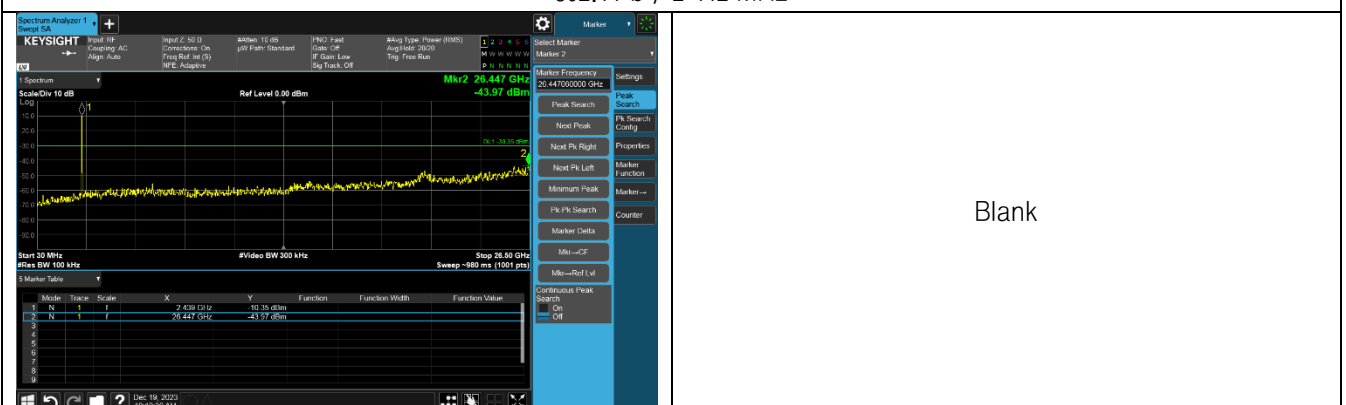


[MIMO_ANT2]

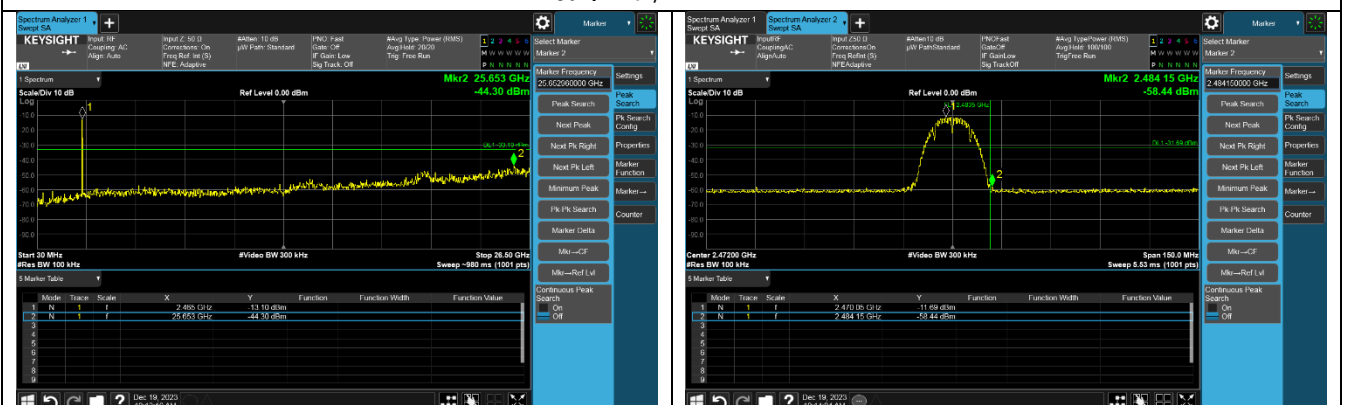
802.11 b / 2 412 MHz



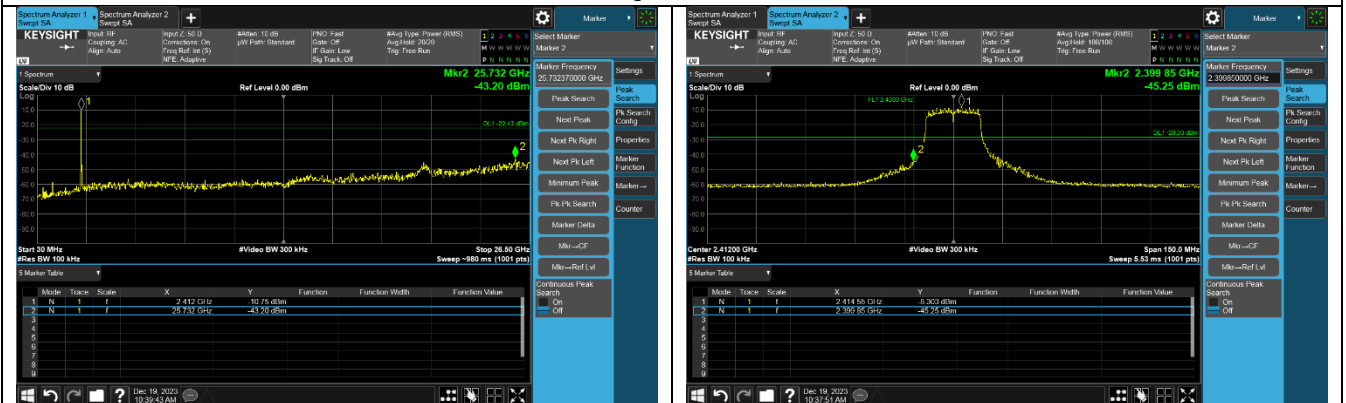
802.11 b / 2 442 MHz



802.11 b / 2 472 MHz



802.11 g / 2 412 MHz

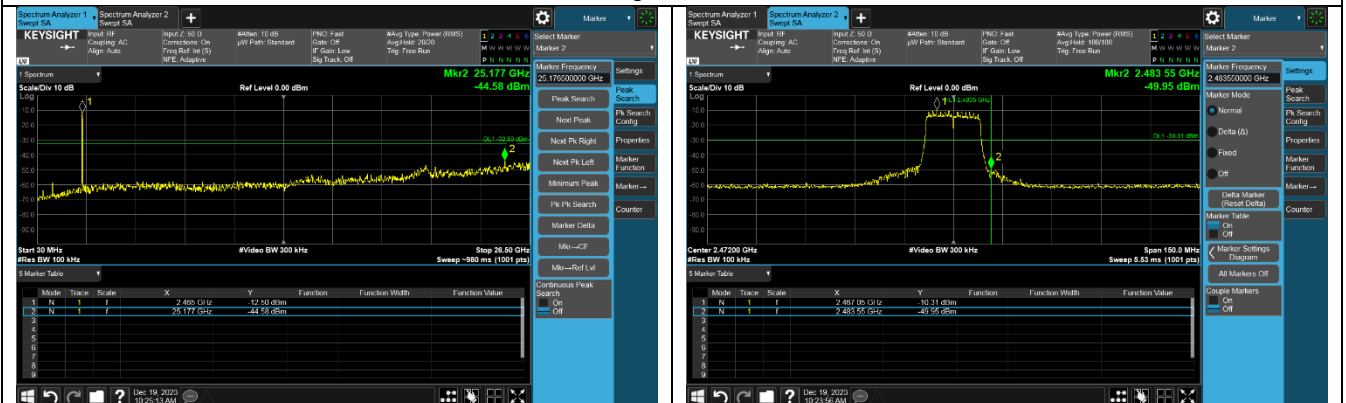


802.11 g / 2 442 MHz

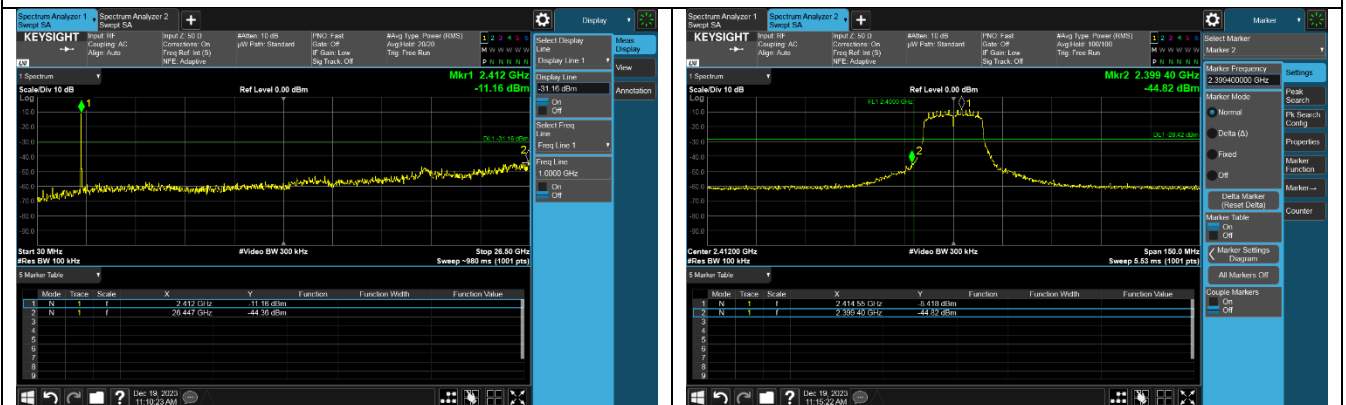


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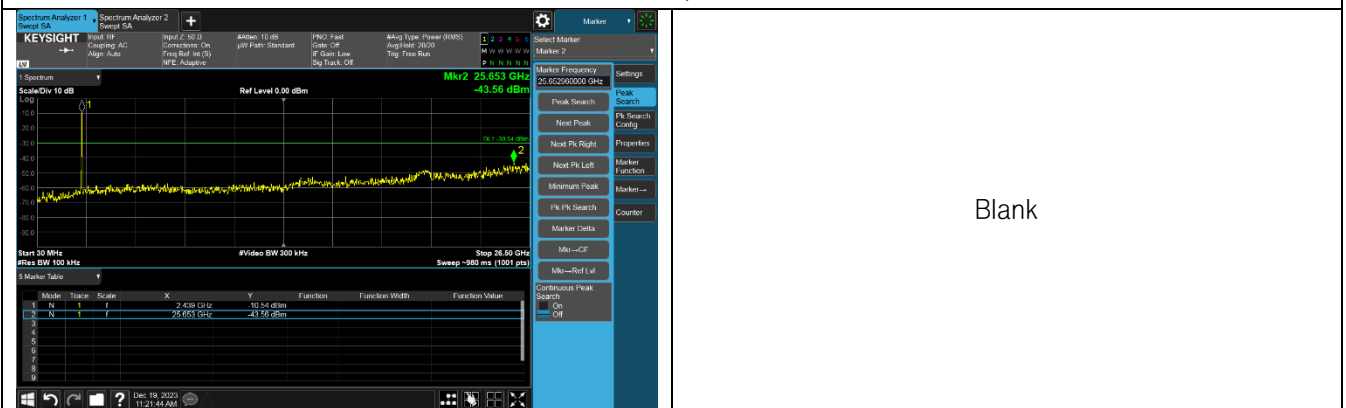
802.11 g / 2 472 MHz



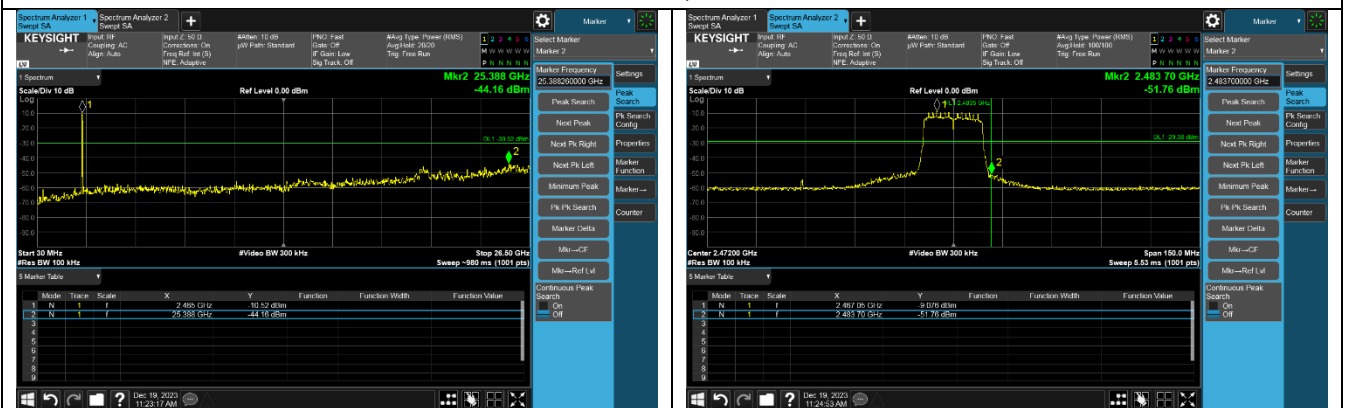
802.11 n HT20 / 2 412 MHz



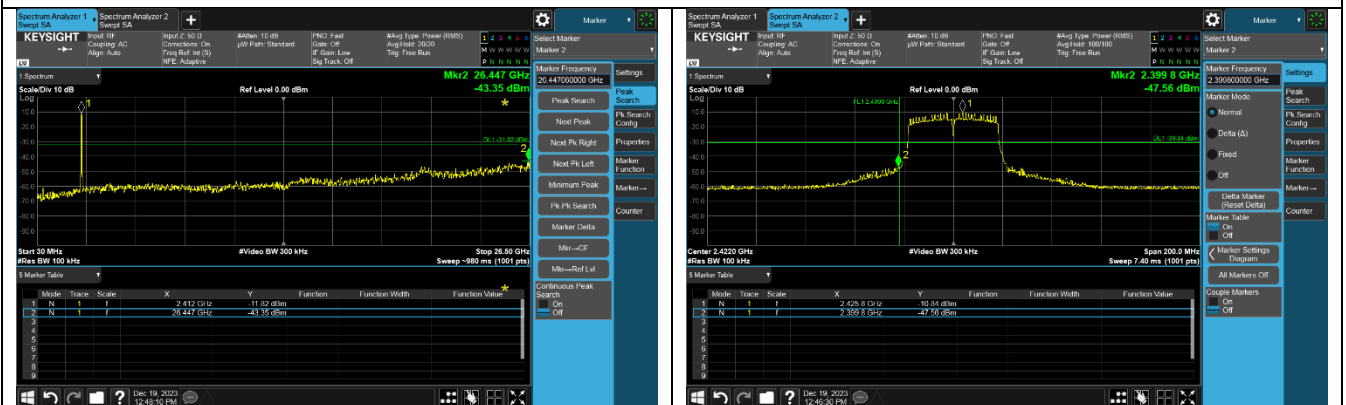
802.11 n HT20 / 2 442 MHz



802.11 n HT20 / 2 472 MHz



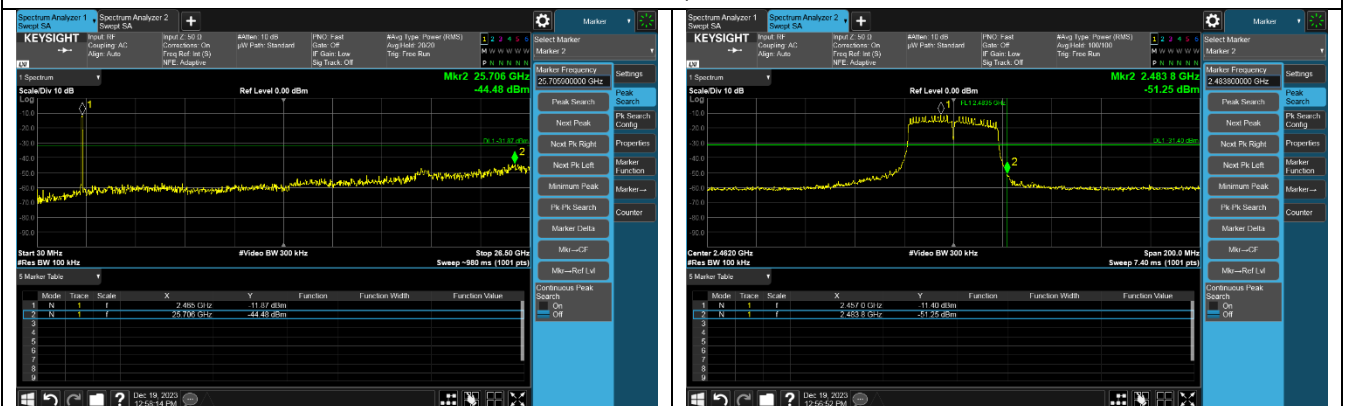
802.11 n HT40 / 2 422 MHz



802.11 n HT40 / 2 442 MHz

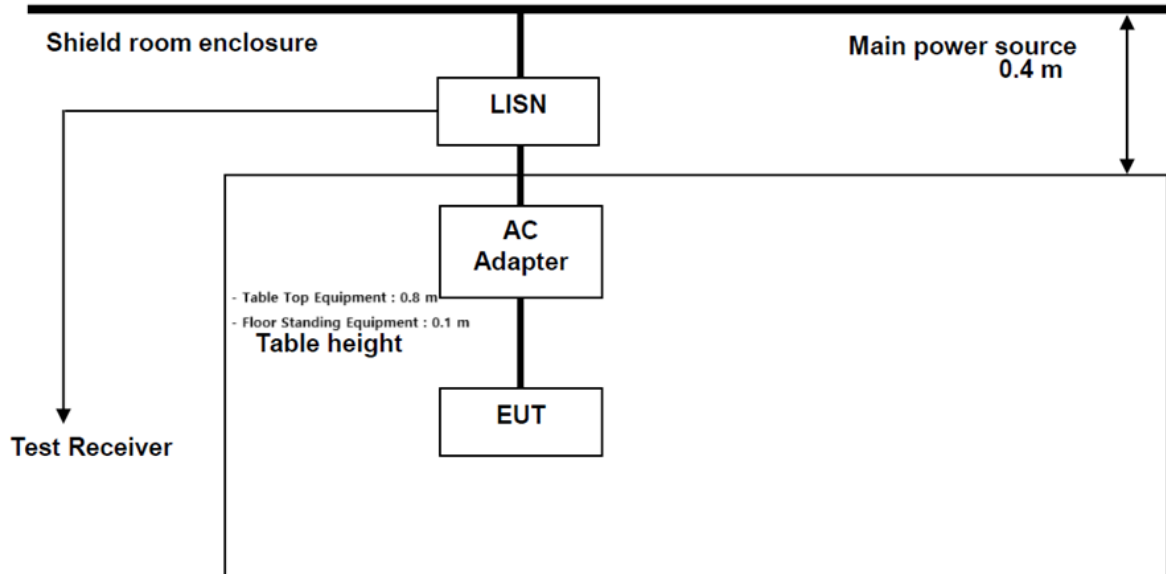


802.11 n HT40 / 2 462 MHz



6.6. AC Power Line Conducted Emissions

■ Test Setup



■ Limit

According to § 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges

Frequency of Emission (MHz)	Conducted limit (dB μ V)	
	Quasi-Peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

*Decreases with the logarithm of the frequency.

■ Test procedure

ANSI C63.10 2013 Section 6.2

1. The EUT is placed on a wooden table 80 cm above the reference ground plane and 40 cm from the conducting wall of the shielding room.
2. Connect EUT to the power mains through a line impedance stabilization network(LISN) which provides 50 ohm coupling impedance for measuring instrument.
3. All peripherals are connecting to the other LISN
4. The frequency range from 150 kHz to 30 MHz was performed.
5. Set the test receiver to Peak detector and a bandwidth of 9 kHz with maximum hold mode. And then measurement is also performed by Average and Quasi-Peak detector
6. The EUT is transmitting mode during the measurement.

■ Test Result

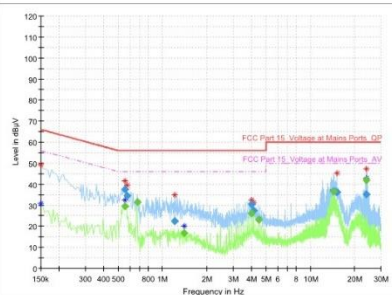
802.11 b / 2 412 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LSN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~, 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 b(2 412 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.555000	---	23.64	46.00	16.36	1000.0	9.000	L1	9.6
0.555000	37.43	---	56.00	18.57	1000.0	9.000	L1	9.6
0.572000	34.62	---	56.00	21.38	1000.0	9.000	L1	9.6
0.672000	---	31.49	46.00	14.51	1000.0	9.000	L1	9.6
1.212000	22.52	---	56.00	33.48	1000.0	9.000	L1	9.6
3.392000	---	16.80	46.00	29.20	1000.0	9.000	N	9.6
3.993000	---	26.13	46.00	19.87	1000.0	9.000	N	9.6
3.993000	38.45	---	56.00	17.55	1000.0	9.000	N	9.6
4.114500	27.84	---	56.00	28.16	1000.0	9.000	N	9.6
4.461000	---	23.17	46.00	22.83	1000.0	9.000	N	9.6
14.235000	---	36.44	50.00	13.56	1000.0	9.000	N	9.7
15.121500	36.36	---	60.00	23.64	1000.0	9.000	N	9.7
24.009000	---	41.91	50.00	8.09	1000.0	9.000	L1	9.7
24.013500	35.36	---	60.00	24.64	1000.0	9.000	N	9.7

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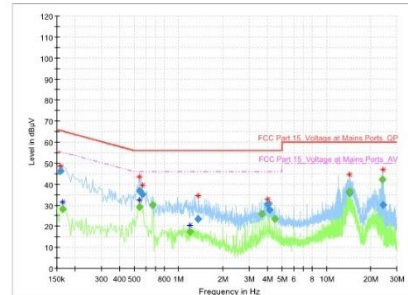
802.11 b / 2 442 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LSN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~, 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 b(2 442 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.559000	46.20	---	65.52	19.32	1000.0	9.000	L1	9.5
0.563500	---	28.15	55.28	27.14	1000.0	9.000	L1	9.5
0.541500	---	29.21	46.00	16.79	1000.0	9.000	L1	9.6
0.541500	36.82	---	56.00	19.18	1000.0	9.000	L1	9.6
0.569500	35.22	---	56.00	20.78	1000.0	9.000	L1	9.6
0.667500	---	30.31	46.00	15.69	1000.0	9.000	L1	9.6
1.198500	---	17.31	46.00	28.69	1000.0	9.000	N	9.6
1.296000	23.51	---	56.00	32.49	1000.0	9.000	L1	9.6
3.642000	---	25.88	46.00	20.12	1000.0	9.000	N	9.6
3.993000	38.37	---	56.00	17.63	1000.0	9.000	N	9.6
4.114500	27.89	---	56.00	28.11	1000.0	9.000	N	9.6
4.461000	---	23.32	46.00	22.68	1000.0	9.000	N	9.6
14.235000	---	36.38	50.00	13.62	1000.0	9.000	N	9.7
14.248500	35.94	---	60.00	24.06	1000.0	9.000	N	9.7
24.009000	---	42.29	50.00	7.71	1000.0	9.000	L1	9.7
24.036000	36.21	---	60.00	23.79	1000.0	9.000	L1	9.7

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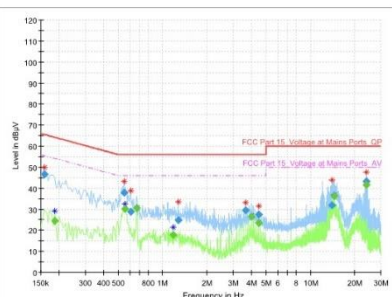
802.11 b / 2 472 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LSN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~, 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 b(2 472 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.559000	46.45	---	65.52	19.06	1000.0	9.000	L1	9.5
0.563500	---	24.38	54.21	29.84	1000.0	9.000	L1	9.5
0.559500	37.86	---	56.00	18.04	1000.0	9.000	L1	9.6
0.559500	---	30.31	46.00	15.69	1000.0	9.000	N	9.6
0.609000	28.09	---	56.00	27.91	1000.0	9.000	L1	9.6
0.667500	---	30.37	46.00	15.63	1000.0	9.000	L1	9.6
1.198500	---	17.80	46.00	28.20	1000.0	9.000	N	9.6
1.279500	24.72	---	56.00	31.28	1000.0	9.000	N	9.6
3.642000	29.47	---	56.00	26.53	1000.0	9.000	N	9.6
3.988500	---	26.90	46.00	19.10	1000.0	9.000	N	9.6
4.461000	---	23.38	46.00	22.62	1000.0	9.000	N	9.6
4.461000	27.37	---	56.00	28.63	1000.0	9.000	N	9.6
13.915500	31.85	---	60.00	28.15	1000.0	9.000	L1	9.7
14.469000	---	36.12	50.00	13.88	1000.0	9.000	N	9.7
24.009000	---	41.53	50.00	8.47	1000.0	9.000	L1	9.7
24.013500	43.26	---	60.00	16.74	1000.0	9.000	L1	9.7

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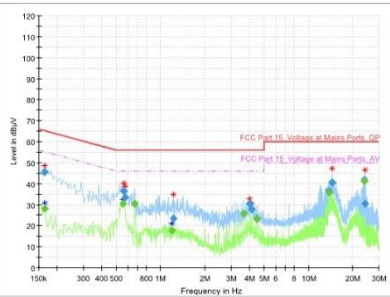
802.11 g / 2 412 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LIN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~ 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 g(2 412 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.163500	---	28.30	55.28	26.98	1000.0	9.000	L1	9.5
0.163500	45.73	---	55.28	10.55	1000.0	9.000	L1	9.5
0.555000	---	39.47	46.00	16.53	1000.0	9.000	N	9.6
0.555000	36.62	---	56.00	19.38	1000.0	9.000	L1	9.6
0.577500	33.65	---	56.00	22.35	1000.0	9.000	L1	9.6
0.667500	---	30.41	46.00	15.59	1000.0	9.000	L1	9.6
1.189500	---	17.86	46.00	28.14	1000.0	9.000	N	9.6
1.215000	23.34	---	56.00	32.66	1000.0	9.000	L1	9.6
3.542000	---	25.93	46.00	20.07	1000.0	9.000	N	9.6
3.993000	30.53	---	56.00	25.47	1000.0	9.000	N	9.6
4.114500	27.88	---	56.00	28.02	1000.0	9.000	N	9.6
4.461000	---	23.50	46.00	22.50	1000.0	9.000	N	9.6
13.767000	---	38.65	50.00	11.35	1000.0	9.000	N	9.7
14.428500	46.55	---	60.00	13.45	1000.0	9.000	N	9.7
24.013500	---	41.31	50.00	8.69	1000.0	9.000	L1	9.7
24.031500	30.49	---	60.00	29.51	1000.0	9.000	L1	9.7

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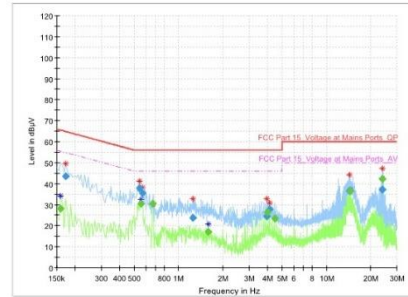
802.11 g / 2 442 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LIN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~ 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 g(2 442 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.169000	---	28.18	55.52	27.34	1000.0	9.000	L1	9.5
0.172500	43.55	---	55.52	12.37	1000.0	9.000	L1	9.5
0.546000	37.82	---	56.00	18.18	1000.0	9.000	L1	9.6
0.555000	---	30.57	46.00	15.43	1000.0	9.000	N	9.6
0.568500	35.47	---	56.00	20.53	1000.0	9.000	L1	9.6
0.667500	---	30.60	46.00	15.40	1000.0	9.000	L1	9.6
1.243500	23.66	---	56.00	32.34	1000.0	9.000	L1	9.6
1.581000	---	17.08	46.00	28.92	1000.0	9.000	N	9.6
3.866000	24.40	---	56.00	31.60	1000.0	9.000	N	9.6
3.993000	---	28.55	46.00	17.45	1000.0	9.000	N	9.6
4.114500	27.93	---	56.00	28.07	1000.0	9.000	N	9.6
4.461000	---	23.55	46.00	22.45	1000.0	9.000	N	9.6
14.379000	36.51	---	60.00	23.49	1000.0	9.000	N	9.7
14.469000	---	38.48	50.00	11.52	1000.0	9.000	N	9.7
24.013500	---	42.10	50.00	7.90	1000.0	9.000	L1	9.7
24.019000	37.06	---	60.00	22.94	1000.0	9.000	N	9.7

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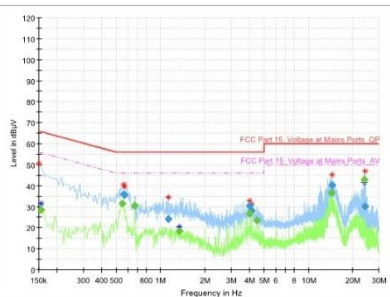
802.11 g / 2 472 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LIN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~ 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 g(2 472 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Caverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	---	28.55	55.75	27.21	1000.0	9.000	L1	9.5
0.550500	---	31.65	46.00	14.35	1000.0	9.000	N	9.6
0.564000	35.87	---	56.00	20.13	1000.0	9.000	L1	9.6
0.568500	35.37	---	56.00	20.63	1000.0	9.000	L1	9.6
0.667500	24.19	---	39.45	15.26	1000.0	9.000	L1	9.6
1.122000	---	56.00	11.81	1000.0	9.000	L1	9.6	
1.333500	---	18.35	46.00	27.65	1000.0	9.000	N	9.6
3.988500	---	26.76	46.00	19.24	1000.0	9.000	N	9.6
3.993000	30.46	---	56.00	25.54	1000.0	9.000	N	9.6
4.114500	28.01	---	56.00	27.99	1000.0	9.000	N	9.6
4.461000	---	23.54	46.00	22.46	1000.0	9.000	N	9.6
14.235000	---	38.59	50.00	11.41	1000.0	9.000	N	9.7
14.433000	46.25	---	60.00	13.75	1000.0	9.000	N	9.7
24.009000	---	42.83	50.00	7.17	1000.0	9.000	L1	9.7
24.031500	36.13	---	60.00	23.87	1000.0	9.000	L1	9.7

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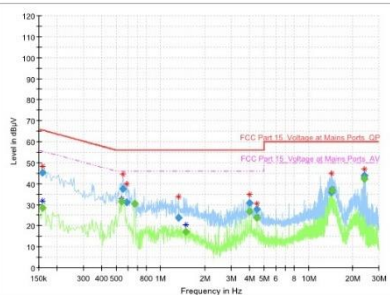
802.11 n HT20 / 2 412 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LIN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~ 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 n_HT20(2 412 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.159000	---	28.37	55.52	27.15	1000.0	9.000	L1	9.5
0.159000	45.37	---	55.52	10.15	1000.0	9.000	L1	9.5
0.559000	---	31.40	46.00	14.60	1000.0	9.000	L1	9.6
0.559000	37.43	---	56.00	18.57	1000.0	9.000	L1	9.6
0.559000	31.21	---	56.00	24.79	1000.0	9.000	L1	9.6
0.559000	---	30.61	46.00	15.39	1000.0	9.000	L1	9.6
1.115000	23.74	---	56.00	32.26	1000.0	9.000	L1	9.6
1.461000	---	17.19	46.00	28.81	1000.0	9.000	N	9.6
3.385000	30.89	---	56.00	25.11	1000.0	9.000	N	9.6
3.385000	---	26.82	46.00	19.18	1000.0	9.000	N	9.6
4.461000	---	23.74	46.00	22.26	1000.0	9.000	N	9.6
4.461000	27.72	---	56.00	28.28	1000.0	9.000	N	9.6
14.253000	35.87	---	60.00	24.13	1000.0	9.000	N	9.7
14.469000	---	38.76	50.00	11.24	1000.0	9.000	N	9.7
24.009000	44.00	---	60.00	16.00	1000.0	9.000	L1	9.7
24.009000	---	42.07	50.00	7.93	1000.0	9.000	L1	9.7

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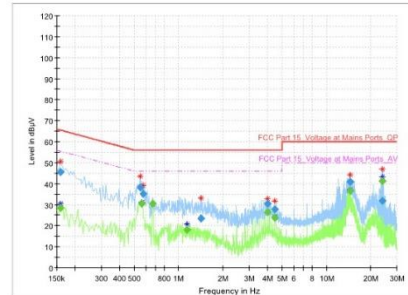
802.11 n HT20 / 2 442 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LIN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~ 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 n_HT20(2 442 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.159000	---	28.42	55.52	27.10	1000.0	9.000	L1	9.5
0.159000	45.50	---	55.52	10.02	1000.0	9.000	L1	9.5
0.559000	---	31.15	46.00	14.84	1000.0	9.000	L1	9.6
0.559000	37.43	---	56.00	18.57	1000.0	9.000	L1	9.6
0.559000	31.21	---	56.00	24.79	1000.0	9.000	L1	9.6
0.559000	---	30.51	46.00	15.49	1000.0	9.000	L1	9.6
1.115000	23.74	---	56.00	32.26	1000.0	9.000	L1	9.6
1.461000	---	17.19	46.00	28.81	1000.0	9.000	N	9.6
3.385000	30.89	---	56.00	25.11	1000.0	9.000	N	9.6
3.385000	---	26.82	46.00	19.18	1000.0	9.000	N	9.6
4.461000	---	23.74	46.00	22.26	1000.0	9.000	N	9.6
4.461000	27.72	---	56.00	28.28	1000.0	9.000	N	9.6
14.253000	35.87	---	60.00	24.13	1000.0	9.000	N	9.7
14.469000	---	38.76	50.00	11.24	1000.0	9.000	N	9.7
24.009000	44.00	---	60.00	16.00	1000.0	9.000	L1	9.7
24.009000	---	42.07	50.00	7.93	1000.0	9.000	L1	9.7

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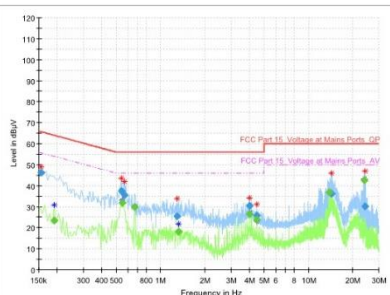
802.11 n HT20 / 2 472 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LIN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~ 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 n_HT20(2 472 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	46.12	---	65.75	19.64	1000.0	9.000	L1	9.5
0.190500	---	23.42	54.02	30.60	1000.0	9.000	L1	9.5
0.541000	37.43	---	56.00	18.57	1000.0	9.000	L1	9.6
0.559000	---	31.89	46.00	14.11	1000.0	9.000	N	9.6
0.559000	35.52	---	56.00	20.48	1000.0	9.000	L1	9.6
0.559000	---	29.89	46.00	16.11	1000.0	9.000	N	9.6
1.203000	25.33	---	56.00	30.67	1000.0	9.000	N	9.6
1.329000	---	17.87	46.00	28.13	1000.0	9.000	N	9.6
3.393000	---	26.82	46.00	19.18	1000.0	9.000	N	9.6
3.393000	30.56	---	56.00	25.44	1000.0	9.000	N	9.6
4.461000	---	23.77	46.00	22.23	1000.0	9.000	N	9.6
4.465000	25.82	---	56.00	30.18	1000.0	9.000	N	9.6
13.762000	---	38.89	50.00	11.11	1000.0	9.000	N	9.7
14.253000	36.06	---	60.00	23.94	1000.0	9.000	N	9.7
24.004000	---	42.74	50.00	7.26	1000.0	9.000	L1	9.7
24.040000	39.88	---	60.00	20.12	1000.0	9.000	L1	9.7

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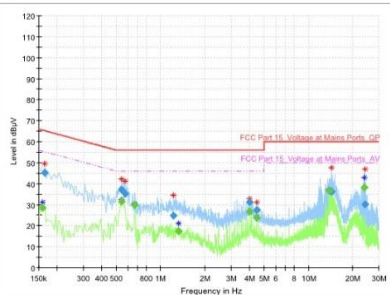
802.11 n HT40 / 2 422 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LIN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~ 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 n_HT40(2 422 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.159500	---	28.42	55.52	27.09	1000.0	9.000	L1	9.5
0.162500	45.21	---	55.28	20.07	1000.0	9.000	L1	9.5
0.540000	---	31.39	46.00	14.61	1000.0	9.000	N	9.6
0.546000	37.05	---	56.00	18.95	1000.0	9.000	N	9.6
0.573000	35.35	---	56.00	20.65	1000.0	9.000	L1	9.6
0.687500	---	29.91	46.00	16.09	1000.0	9.000	N	9.6
1.221000	24.91	---	56.00	31.09	1000.0	9.000	N	9.6
1.329000	---	17.58	46.00	28.42	1000.0	9.000	N	9.6
3.385500	---	28.83	46.00	17.17	1000.0	9.000	N	9.6
3.388500	31.03	---	56.00	24.97	1000.0	9.000	N	9.6
4.461000	27.52	---	56.00	28.48	1000.0	9.000	N	9.6
4.461500	---	23.66	46.00	22.34	1000.0	9.000	N	9.6
13.762500	---	38.40	50.00	11.60	1000.0	9.000	N	9.7
14.248500	36.32	---	60.00	23.68	1000.0	9.000	N	9.7
24.009000	---	38.98	50.00	11.02	1000.0	9.000	L1	9.7
24.036000	30.12	---	60.00	29.88	1000.0	9.000	L1	9.7

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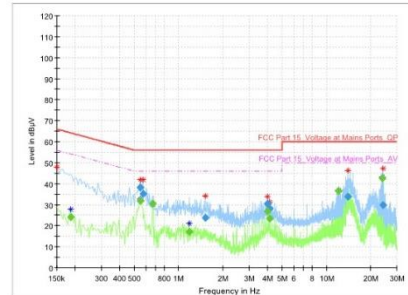
802.11 n HT40 / 2 442 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LIN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~ 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 n_HT40(2 442 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.159500	---	24.14	54.21	30.07	1000.0	9.000	L1	9.5
0.550500	38.95	---	56.00	17.05	1000.0	9.000	L1	9.6
0.550500	---	31.92	46.00	14.08	1000.0	9.000	N	9.6
0.573000	35.39	---	56.00	20.60	1000.0	9.000	L1	9.6
0.687500	---	39.60	46.00	15.40	1000.0	9.000	L1	9.6
1.180500	---	17.06	46.00	28.94	1000.0	9.000	L1	9.6
1.513500	23.65	---	56.00	32.35	1000.0	9.000	N	9.6
3.388500	---	28.88	46.00	17.12	1000.0	9.000	N	9.6
3.393000	30.45	---	56.00	25.55	1000.0	9.000	N	9.6
4.114500	---	23.43	46.00	22.57	1000.0	9.000	N	9.6
4.114500	28.21	---	56.00	27.79	1000.0	9.000	N	9.6
12.003000	---	36.43	50.00	13.57	1000.0	9.000	L1	9.7
13.090500	33.92	---	60.00	26.08	1000.0	9.000	L1	9.7
24.004500	---	42.70	50.00	7.30	1000.0	9.000	L1	9.7
24.031500	29.95	---	60.00	30.05	1000.0	9.000	L1	9.7

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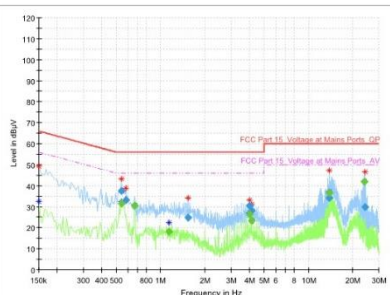
802.11 n HT40 / 2 462 MHz

Test

EMC32 Report

Common Information

EUT: YV-19C
Order Number : EFC-2022-000023
Factor : ESR3(LIN 100052)
Polarization : Live & Neutral
Test Voltage : 120 V~ 60 Hz
Test Spec : FCC PART 15
Test Mode : 802.11 n_HT40(2 462 MHz)



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.541500	37.63	---	56.00	18.37	1000.0	9.000	L1	9.6
0.546000	---	31.42	46.00	14.58	1000.0	9.000	N	9.6
0.562000	33.39	---	56.00	22.61	1000.0	9.000	L1	9.6
0.687500	---	39.50	46.00	15.50	1000.0	9.000	L1	9.6
1.149000	---	17.06	46.00	28.94	1000.0	9.000	N	9.6
1.527000	24.96	---	56.00	31.04	1000.0	9.000	N	9.6
3.393000	---	26.44	46.00	19.56	1000.0	9.000	N	9.6
3.393000	30.46	---	56.00	25.54	1000.0	9.000	N	9.6
4.114500	28.08	---	56.00	27.92	1000.0	9.000	N	9.6
4.114500	---	23.44	46.00	22.56	1000.0	9.000	N	9.6
13.762500	---	36.55	50.00	13.45	1000.0	9.000	N	9.7
13.902000	34.14	---	60.00	25.86	1000.0	9.000	N	9.7
24.004500	---	42.04	50.00	7.96	1000.0	9.000	L1	9.7
24.036000	29.93	---	60.00	30.07	1000.0	9.000	L1	9.7

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7. Test Equipment List

Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Interval	Calibration Due Date
Signal Analyzer	Keysight	N9040B	US55230181	11/09/2023	Annual	11/09/2024
EMI Receiver	R&S	ESW26	103016	08/02/2023	Annual	08/02/2024
EMI Receiver	R&S	ESR3	102623	09/06/2023	Annual	09/06/2024
Signal Generator	Keysight	N5173B	MY53270648	04/26/2023	Annual	04/26/2024
USB Power Sensor	Keysight	U2022XA	MY55270005	06/27/2023	Annual	06/27/2024
Attenuator	Agilent	8493C	18173	08/18/2023	Annual	08/18/2024
Multimeter	Fluke	115	23570024	07/06/2023	Annual	07/06/2024
LISN	R&S	ENV216	100052	12/12/2023	Annual	12/12/2024
Loop Antenna	R&S	HFH2-Z2	825841/008	08/28/2023	Annual	08/28/2024
Bi-Log Antenna	TDK	HLP-3003C	130961	08/16/2023	Annual	08/16/2024
Horn Antenna	ETS-LINDGREN	3117	00227635	07/14/2023	Annual	07/14/2024
Horn Antenna	ETS-LINDGREN	3116C	00201452	11/26/2023	Annual	11/26/2024
Pre-Amplifier	SONOMA	310N	410788	04/20/2023	Annual	04/20/2024
Pre-Amplifier	TESTEK	TK-PA18	120006	08/28/2023	Annual	08/28/2024
Pre-Amplifier	ETS-LINDGREN	3116C-PA	00201452	11/24/2023	Annual	11/24/2024
Low Pass Filter	WAINWRIGHT	WLK12-2000-2120-11000-40SS	1	11/09/2023	Annual	11/09/2024
High Pass Filter	WAINWRIGHT	WHKX12-935-1000-15000-40SS	16	11/09/2023	Annual	11/09/2024
High Pass Filter	WAINWRIGHT	WHNX3.5/26.5G-6SS	13	04/14/2023	Annual	04/14/2024
Antenna Position Tower	Innco Systems GmbH	MA4640/800-XP-ET	N/A	N/A	N/A	N/A
Antenna Mast	Innco Systems GmbH	MHE-0200-MA	N/A	N/A	N/A	N/A
Controller	Innco Systems GmbH	CO3000	CO3000/1036/41320817/P	N/A	N/A	N/A
Coaxial Cable	HUBER+SUHNER	SCOFLEX102	38169/2	N/A	N/A	N/A
Coaxial Cable	HUBER+SUHNER	SCOFLEX102	38172/2	N/A	N/A	N/A
Coaxial Cable	HUBER+SUHNER	SCOFLEX102	38173/2	N/A	N/A	N/A
Coaxial Cable	HUBER+SUHNER	SCOFLEX104	MY32577/4	N/A	N/A	N/A
Coaxial Cable	HUBER+SUHNER	SCOFLEX104	MY31218/4	N/A	N/A	N/A
Coaxial Cable	HUBER+SUHNER	SCOFLEX104	MY31117/4	N/A	N/A	N/A
Coaxial Cable	HUBER+SUHNER	SCOFLEX104	MY31217/4	N/A	N/A	N/A
Test Software(RE)	R&S	EMC32	Ver 8.54.0	N/A	N/A	N/A
Test Software(CE)	R&S	EMC32	Ver 10.28.00	N/A	N/A	N/A

- End of Test Report -