

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.8 PK	74.0	-17.2	1.20 H	298	59.5	-2.7
2	2390.00	43.7 AV	54.0	-10.3	1.20 H	298	46.4	-2.7
3	*2437.00	121.3 PK			1.20 H	298	124.0	-2.7
4	*2437.00	110.8 AV			1.20 H	298	113.5	-2.7
5	2483.50	57.2 PK	74.0	-16.8	1.20 H	298	60.0	-2.8
6	2483.50	43.2 AV	54.0	-10.8	1.20 H	298	46.0	-2.8
7	4874.00	45.8 PK	74.0	-28.2	1.80 H	182	44.1	1.7
8	4874.00	35.1 AV	54.0	-18.9	1.80 H	182	33.4	1.7
9	7311.00	66.2 PK	74.0	-7.8	1.95 H	108	59.0	7.2
10	7311.00	50.6 AV	54.0	-3.4	1.95 H	108	43.4	7.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	54.9 PK	74.0	-19.1	1.44 V	141	57.6	-2.7
2	2390.00	41.6 AV	54.0	-12.4	1.44 V	141	44.3	-2.7
3	*2437.00	115.3 PK			1.44 V	141	118.0	-2.7
4	*2437.00	104.1 AV			1.44 V	141	106.8	-2.7
5	2483.50	56.3 PK	74.0	-17.7	1.44 V	141	59.1	-2.8
6	2483.50	42.3 AV	54.0	-11.7	1.44 V	141	45.1	-2.8
7	4874.00	42.6 PK	74.0	-31.4	1.43 V	127	40.9	1.7
8	4874.00	31.2 AV	54.0	-22.8	1.43 V	127	29.5	1.7
9	7311.00	62.4 PK	74.0	-11.6	3.27 V	150	55.2	7.2
10	7311.00	46.7 AV	54.0	-7.3	3.27 V	150	39.5	7.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	121.2 PK			2.49 H	126	124.0	-2.8
2	*2462.00	108.6 AV			2.49 H	126	111.4	-2.8
3	2483.50	72.0 PK	74.0	-2.0	2.49 H	126	74.8	-2.8
4	2483.50	45.5 AV	54.0	-8.5	2.49 H	126	48.3	-2.8
5	4924.00	46.3 PK	74.0	-27.7	1.84 H	178	44.5	1.8
6	4924.00	35.4 AV	54.0	-18.6	1.84 H	178	33.6	1.8
7	7386.00	64.3 PK	74.0	-9.7	2.01 H	106	56.9	7.4
8	7386.00	46.8 AV	54.0	-7.2	2.01 H	106	39.4	7.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	112.4 PK			1.50 V	140	115.2	-2.8
2	*2462.00	100.6 AV			1.50 V	140	103.4	-2.8
3	2483.50	65.8 PK	74.0	-8.2	1.50 V	140	68.6	-2.8
4	2483.50	43.5 AV	54.0	-10.5	1.50 V	140	46.3	-2.8
5	4924.00	42.6 PK	74.0	-31.4	1.46 V	117	40.8	1.8
6	4924.00	31.0 AV	54.0	-23.0	1.46 V	117	29.2	1.8
7	7386.00	57.6 PK	74.0	-16.4	3.30 V	164	50.2	7.4
8	7386.00	42.8 AV	54.0	-11.2	3.30 V	164	35.4	7.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 12 : 2467 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	116.3 PK			2.74 H	127	119.1	-2.8
2	*2467.00	104.7 AV			2.74 H	127	107.5	-2.8
3	2485.14	72.3 PK	74.0	-1.7	2.74 H	127	75.1	-2.8
4	2485.14	45.3 AV	54.0	-8.7	2.74 H	127	48.1	-2.8
5	4934.00	45.5 PK	74.0	-28.5	1.83 H	176	43.7	1.8
6	4934.00	34.6 AV	54.0	-19.4	1.83 H	176	32.8	1.8
7	7401.00	64.4 PK	74.0	-9.6	2.02 H	117	56.9	7.5
8	7401.00	47.0 AV	54.0	-7.0	2.02 H	117	39.5	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	110.7 PK			1.54 V	142	113.5	-2.8
2	*2467.00	97.2 AV			1.54 V	142	100.0	-2.8
3	2485.00	68.9 PK	74.0	-5.1	1.54 V	142	71.7	-2.8
4	2485.00	43.4 AV	54.0	-10.6	1.54 V	142	46.2	-2.8
5	4934.00	42.6 PK	74.0	-31.4	1.46 V	132	40.8	1.8
6	4934.00	30.7 AV	54.0	-23.3	1.46 V	132	28.9	1.8
7	7401.00	58.2 PK	74.0	-15.8	3.29 V	170	50.7	7.5
8	7401.00	43.1 AV	54.0	-10.9	3.29 V	170	35.6	7.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	Channel	CH 13 : 2472 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	112.1 PK			1.69 H	321	114.9	-2.8
2	*2472.00	100.3 AV			1.69 H	321	103.1	-2.8
3	2483.50	72.4 PK	74.0	-1.6	1.69 H	321	75.2	-2.8
4	2483.50	45.8 AV	54.0	-8.2	1.69 H	321	48.6	-2.8
5	4944.00	45.1 PK	74.0	-28.9	1.79 H	166	43.3	1.8
6	4944.00	34.7 AV	54.0	-19.3	1.79 H	166	32.9	1.8
7	7416.00	64.4 PK	74.0	-9.6	2.05 H	106	56.9	7.5
8	7416.00	47.1 AV	54.0	-6.9	2.05 H	106	39.6	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	106.9 PK			1.59 V	161	109.7	-2.8
2	*2472.00	94.2 AV			1.59 V	161	97.0	-2.8
3	2484.17	65.3 PK	74.0	-8.7	1.59 V	161	68.1	-2.8
4	2484.17	43.4 AV	54.0	-10.6	1.59 V	161	46.2	-2.8
5	4944.00	42.7 PK	74.0	-31.3	1.40 V	128	40.9	1.8
6	4944.00	30.8 AV	54.0	-23.2	1.40 V	128	29.0	1.8
7	7416.00	57.4 PK	74.0	-16.6	3.25 V	159	49.9	7.5
8	7416.00	42.8 AV	54.0	-11.2	3.25 V	159	35.3	7.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 1 : 2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2388.31	72.3 PK	74.0	-1.7	2.28 H	119	75.0	-2.7
2	2388.31	47.4 AV	54.0	-6.6	2.28 H	119	50.1	-2.7
3	2390.00	69.5 PK	74.0	-4.5	2.28 H	119	72.2	-2.7
4	2390.00	48.0 AV	54.0	-6.0	2.28 H	119	50.7	-2.7
5	*2412.00	119.1 PK			2.28 H	119	121.8	-2.7
6	*2412.00	107.7 AV			2.28 H	119	110.4	-2.7
7	4824.00	46.2 PK	74.0	-27.8	1.81 H	179	44.4	1.8
8	4824.00	35.3 AV	54.0	-18.7	1.81 H	179	33.5	1.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2388.00	65.2 PK	74.0	-8.8	1.35 V	158	67.9	-2.7
2	2388.00	44.4 AV	54.0	-9.6	1.35 V	158	47.1	-2.7
3	*2412.00	112.2 PK			1.35 V	158	114.9	-2.7
4	*2412.00	100.9 AV			1.35 V	158	103.6	-2.7
5	4824.00	41.9 PK	74.0	-32.1	1.48 V	138	40.1	1.8
6	4824.00	30.8 AV	54.0	-23.2	1.48 V	138	29.0	1.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.9 PK	74.0	-16.1	2.30 H	107	60.6	-2.7
2	2390.00	44.5 AV	54.0	-9.5	2.30 H	107	47.2	-2.7
3	*2437.00	121.4 PK			2.30 H	107	124.1	-2.7
4	*2437.00	108.9 AV			2.30 H	107	111.6	-2.7
5	2483.50	58.2 PK	74.0	-15.8	2.30 H	107	61.0	-2.8
6	2483.50	44.3 AV	54.0	-9.7	2.30 H	107	47.1	-2.8
7	4874.00	45.5 PK	74.0	-28.5	1.75 H	193	43.8	1.7
8	4874.00	35.0 AV	54.0	-19.0	1.75 H	193	33.3	1.7
9	7311.00	64.7 PK	74.0	-9.3	1.96 H	121	57.5	7.2
10	7311.00	50.9 AV	54.0	-3.1	1.96 H	121	43.7	7.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.1 PK	74.0	-17.9	1.30 V	147	58.8	-2.7
2	2390.00	42.6 AV	54.0	-11.4	1.30 V	147	45.3	-2.7
3	*2437.00	113.8 PK			1.30 V	147	116.5	-2.7
4	*2437.00	102.3 AV			1.30 V	147	105.0	-2.7
5	2483.50	57.3 PK	74.0	-16.7	1.30 V	147	60.1	-2.8
6	2483.50	43.2 AV	54.0	-10.8	1.30 V	147	46.0	-2.8
7	4874.00	42.8 PK	74.0	-31.2	1.49 V	132	41.1	1.7
8	4874.00	31.0 AV	54.0	-23.0	1.49 V	132	29.3	1.7
9	7311.00	58.2 PK	74.0	-15.8	3.26 V	158	51.0	7.2
10	7311.00	43.2 AV	54.0	-10.8	3.26 V	158	36.0	7.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	119.7 PK			2.49 H	127	122.5	-2.8
2	*2462.00	107.9 AV			2.49 H	127	110.7	-2.8
3	2484.10	72.2 PK	74.0	-1.8	2.49 H	127	75.0	-2.8
4	2484.10	47.0 AV	54.0	-7.0	2.49 H	127	49.8	-2.8
5	4924.00	46.1 PK	74.0	-27.9	1.80 H	181	44.3	1.8
6	4924.00	35.5 AV	54.0	-18.5	1.80 H	181	33.7	1.8
7	7386.00	63.9 PK	74.0	-10.1	1.99 H	91	56.5	7.4
8	7386.00	46.4 AV	54.0	-7.6	1.99 H	91	39.0	7.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	111.7 PK			1.53 V	141	114.5	-2.8
2	*2462.00	100.1 AV			1.53 V	141	102.9	-2.8
3	2483.50	64.4 PK	74.0	-9.6	1.53 V	141	67.2	-2.8
4	2483.50	43.7 AV	54.0	-10.3	1.53 V	141	46.5	-2.8
5	2496.70	67.8 PK	74.0	-6.2	1.53 V	141	70.6	-2.8
6	2496.70	42.9 AV	54.0	-11.1	1.53 V	141	45.7	-2.8
7	4924.00	42.6 PK	74.0	-31.4	1.47 V	129	40.8	1.8
8	4924.00	31.2 AV	54.0	-22.8	1.47 V	129	29.4	1.8
9	7386.00	57.2 PK	74.0	-16.8	3.30 V	168	49.8	7.4
10	7386.00	42.5 AV	54.0	-11.5	3.30 V	168	35.1	7.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 12 : 2467 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	118.5 PK			2.47 H	124	121.3	-2.8
2	*2467.00	106.7 AV			2.47 H	124	109.5	-2.8
3	2483.50	72.1 PK	74.0	-1.9	2.47 H	124	74.9	-2.8
4	2483.50	48.7 AV	54.0	-5.3	2.47 H	124	51.5	-2.8
5	2484.63	72.4 PK	74.0	-1.6	2.47 H	124	75.2	-2.8
6	2484.63	47.8 AV	54.0	-6.2	2.47 H	124	50.6	-2.8
7	4934.00	45.5 PK	74.0	-28.5	1.85 H	191	43.7	1.8
8	4934.00	35.0 AV	54.0	-19.0	1.85 H	191	33.2	1.8
9	7401.00	64.6 PK	74.0	-9.4	2.02 H	97	57.1	7.5
10	7401.00	47.1 AV	54.0	-6.9	2.02 H	97	39.6	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	110.4 PK			1.55 V	137	113.2	-2.8
2	*2467.00	98.5 AV			1.55 V	137	101.3	-2.8
3	2484.70	65.6 PK	74.0	-8.4	1.55 V	137	68.4	-2.8
4	2484.70	44.4 AV	54.0	-9.6	1.55 V	137	47.2	-2.8
5	4934.00	42.0 PK	74.0	-32.0	1.43 V	109	40.2	1.8
6	4934.00	30.7 AV	54.0	-23.3	1.43 V	109	28.9	1.8
7	7401.00	57.8 PK	74.0	-16.2	3.32 V	163	50.3	7.5
8	7401.00	42.8 AV	54.0	-11.2	3.32 V	163	35.3	7.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU52)	Channel	CH 13 : 2472 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	108.2 PK			1.50 H	359	111.0	-2.8
2	*2472.00	99.6 AV			1.50 H	359	102.4	-2.8
3	2483.50	72.3 PK	74.0	-1.7	1.50 H	359	75.1	-2.8
4	2483.50	49.6 AV	54.0	-4.4	1.50 H	359	52.4	-2.8
5	4944.00	46.1 PK	74.0	-27.9	1.85 H	166	44.3	1.8
6	4944.00	35.5 AV	54.0	-18.5	1.85 H	166	33.7	1.8
7	7416.00	64.2 PK	74.0	-9.8	2.03 H	116	56.7	7.5
8	7416.00	46.6 AV	54.0	-7.4	2.03 H	116	39.1	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	106.5 PK			1.67 V	143	109.3	-2.8
2	*2472.00	94.8 AV			1.67 V	143	97.6	-2.8
3	2484.42	66.6 PK	74.0	-7.4	1.67 V	143	69.4	-2.8
4	2484.42	45.3 AV	54.0	-8.7	1.67 V	143	48.1	-2.8
5	4944.00	43.1 PK	74.0	-30.9	1.42 V	106	41.3	1.8
6	4944.00	31.4 AV	54.0	-22.6	1.42 V	106	29.6	1.8
7	7416.00	57.2 PK	74.0	-16.8	3.26 V	178	49.7	7.5
8	7416.00	42.7 AV	54.0	-11.3	3.26 V	178	35.2	7.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 1 : 2412 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	72.1 PK	74.0	-1.9	2.30 H	120	74.8	-2.7
2	2390.00	46.4 AV	54.0	-7.6	2.30 H	120	49.1	-2.7
3	*2412.00	115.7 PK			2.30 H	120	118.4	-2.7
4	*2412.00	104.4 AV			2.30 H	120	107.1	-2.7
5	4824.00	45.7 PK	74.0	-28.3	1.82 H	168	43.9	1.8
6	4824.00	35.0 AV	54.0	-19.0	1.82 H	168	33.2	1.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	68.8 PK	74.0	-5.2	1.39 V	157	71.5	-2.7
2	2390.00	44.4 AV	54.0	-9.6	1.39 V	157	47.1	-2.7
3	*2412.00	108.8 PK			1.39 V	157	111.5	-2.7
4	*2412.00	97.7 AV			1.39 V	157	100.4	-2.7
5	4824.00	42.5 PK	74.0	-31.5	1.38 V	123	40.7	1.8
6	4824.00	31.3 AV	54.0	-22.7	1.38 V	123	29.5	1.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 6 : 2437 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	58.2 PK	74.0	-15.8	2.28 H	105	60.9	-2.7
2	2390.00	44.2 AV	54.0	-9.8	2.28 H	105	46.9	-2.7
3	*2437.00	117.1 PK			2.28 H	105	119.8	-2.7
4	*2437.00	106.3 AV			2.28 H	105	109.0	-2.7
5	2483.50	72.3 PK	74.0	-1.7	2.28 H	105	75.1	-2.8
6	2483.50	44.9 AV	54.0	-9.1	2.28 H	105	47.7	-2.8
7	4874.00	46.2 PK	74.0	-27.8	1.78 H	174	44.5	1.7
8	4874.00	35.6 AV	54.0	-18.4	1.78 H	174	33.9	1.7
9	7311.00	61.7 PK	74.0	-12.3	1.90 H	106	54.5	7.2
10	7311.00	48.1 AV	54.0	-5.9	1.90 H	106	40.9	7.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.6 PK	74.0	-16.4	1.35 V	151	60.3	-2.7
2	2390.00	43.8 AV	54.0	-10.2	1.35 V	151	46.5	-2.7
3	*2437.00	110.2 PK			1.35 V	151	112.9	-2.7
4	*2437.00	99.1 AV			1.35 V	151	101.8	-2.7
5	2483.50	58.5 PK	74.0	-15.5	1.35 V	151	61.3	-2.8
6	2483.50	44.7 AV	54.0	-9.3	1.35 V	151	47.5	-2.8
7	4874.00	43.2 PK	74.0	-30.8	1.49 V	130	41.5	1.7
8	4874.00	31.4 AV	54.0	-22.6	1.49 V	130	29.7	1.7
9	7311.00	57.0 PK	74.0	-17.0	3.25 V	162	49.8	7.2
10	7311.00	42.5 AV	54.0	-11.5	3.25 V	162	35.3	7.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 11 : 2462 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	116.0 PK			2.78 H	104	118.8	-2.8
2	*2462.00	104.6 AV			2.78 H	104	107.4	-2.8
3	2484.41	72.4 PK	74.0	-1.6	2.78 H	104	75.2	-2.8
4	2484.41	47.2 AV	54.0	-6.8	2.78 H	104	50.0	-2.8
5	4924.00	46.0 PK	74.0	-28.0	1.79 H	197	44.2	1.8
6	4924.00	35.1 AV	54.0	-18.9	1.79 H	197	33.3	1.8
7	7386.00	64.3 PK	74.0	-9.7	2.00 H	122	56.9	7.4
8	7386.00	46.5 AV	54.0	-7.5	2.00 H	122	39.1	7.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	107.2 PK			1.49 V	142	110.0	-2.8
2	*2462.00	96.4 AV			1.49 V	142	99.2	-2.8
3	2483.50	66.5 PK	74.0	-7.5	1.49 V	142	69.3	-2.8
4	2483.50	45.0 AV	54.0	-9.0	1.49 V	142	47.8	-2.8
5	4924.00	42.2 PK	74.0	-31.8	1.45 V	101	40.4	1.8
6	4924.00	30.8 AV	54.0	-23.2	1.45 V	101	29.0	1.8
7	7386.00	58.1 PK	74.0	-15.9	3.28 V	153	50.7	7.4
8	7386.00	43.2 AV	54.0	-10.8	3.28 V	153	35.8	7.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 12 : 2467 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	113.5 PK			2.73 H	103	116.3	-2.8
2	*2467.00	102.3 AV			2.73 H	103	105.1	-2.8
3	2483.81	72.4 PK	74.0	-1.6	2.73 H	103	75.2	-2.8
4	2483.81	48.2 AV	54.0	-5.8	2.73 H	103	51.0	-2.8
5	4934.00	45.4 PK	74.0	-28.6	1.75 H	174	43.6	1.8
6	4934.00	34.6 AV	54.0	-19.4	1.75 H	174	32.8	1.8
7	7401.00	64.5 PK	74.0	-9.5	2.04 H	101	57.0	7.5
8	7401.00	46.7 AV	54.0	-7.3	2.04 H	101	39.2	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2467.00	105.3 PK			1.51 V	148	108.1	-2.8
2	*2467.00	94.3 AV			1.51 V	148	97.1	-2.8
3	2483.50	64.7 PK	74.0	-9.3	1.51 V	148	67.5	-2.8
4	2483.50	44.2 AV	54.0	-9.8	1.51 V	148	47.0	-2.8
5	4934.00	43.2 PK	74.0	-30.8	1.46 V	113	41.4	1.8
6	4934.00	31.4 AV	54.0	-22.6	1.46 V	113	29.6	1.8
7	7401.00	57.9 PK	74.0	-16.1	3.35 V	154	50.4	7.5
8	7401.00	43.2 AV	54.0	-10.8	3.35 V	154	35.7	7.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency.

RF Mode	TX 20MHz Preamble 802.11ax (RU106)	Channel	CH 13 : 2472 MHz
Frequency Range	1GHz ~ 25GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	111.2 PK			2.71 H	102	114.0	-2.8
2	*2472.00	100.1 AV			2.71 H	102	102.9	-2.8
3	2483.50	72.2 PK	74.0	-1.8	2.71 H	102	75.0	-2.8
4	2483.50	50.8 AV	54.0	-3.2	2.71 H	102	53.6	-2.8
5	4944.00	45.0 PK	74.0	-29.0	1.78 H	171	43.2	1.8
6	4944.00	34.6 AV	54.0	-19.4	1.78 H	171	32.8	1.8
7	7416.00	64.1 PK	74.0	-9.9	1.99 H	112	56.6	7.5
8	7416.00	46.4 AV	54.0	-7.6	1.99 H	112	38.9	7.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2472.00	103.1 PK			1.56 V	136	105.9	-2.8
2	*2472.00	92.1 AV			1.56 V	136	94.9	-2.8
3	2483.50	64.1 PK	74.0	-9.9	1.56 V	136	66.9	-2.8
4	2483.50	45.7 AV	54.0	-8.3	1.56 V	136	48.5	-2.8
5	4944.00	42.9 PK	74.0	-31.1	1.40 V	124	41.1	1.8
6	4944.00	31.3 AV	54.0	-22.7	1.40 V	124	29.5	1.8
7	7416.00	58.3 PK	74.0	-15.7	3.34 V	150	50.8	7.5
8	7416.00	43.3 AV	54.0	-10.7	3.34 V	150	35.8	7.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency.

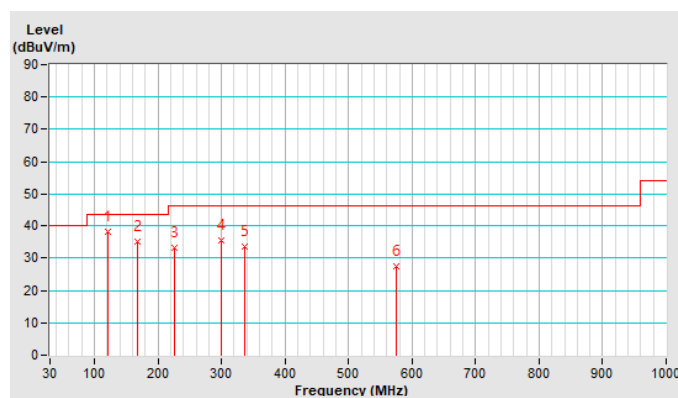
Below 1GHz Data:

RF Mode	TX 802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	120.32	38.2 QP	43.5	-5.3	3.00 H	338	53.2	-15.0
2	166.84	35.2 QP	43.5	-8.3	2.00 H	147	48.2	-13.0
3	226.34	33.2 QP	46.0	-12.8	2.00 H	137	49.1	-15.9
4	299.85	35.3 QP	46.0	-10.7	1.50 H	74	47.6	-12.3
5	336.55	33.7 QP	46.0	-12.3	1.50 H	320	45.0	-11.3
6	575.47	27.3 QP	46.0	-18.7	1.50 H	136	33.5	-6.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

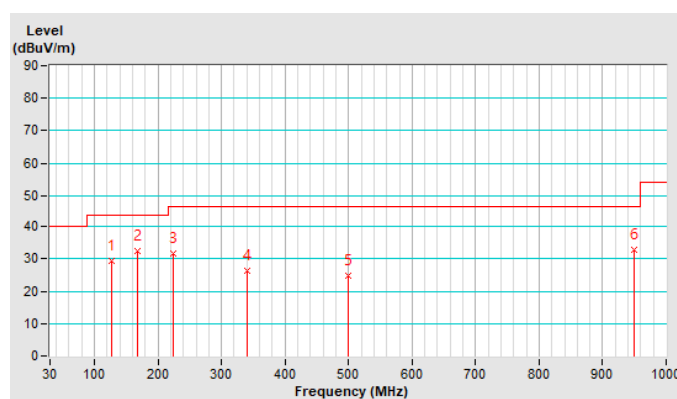


RF Mode	TX 802.11g	Channel	CH 6 : 2437 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	126.18	29.4 QP	43.5	-14.1	1.00 V	24	43.8	-14.4
2	166.80	32.4 QP	43.5	-11.1	1.50 V	229	45.4	-13.0
3	223.77	31.5 QP	46.0	-14.5	1.00 V	138	47.5	-16.0
4	340.65	26.4 QP	46.0	-19.6	1.50 V	175	37.7	-11.3
5	498.76	24.6 QP	46.0	-21.4	1.50 V	31	32.2	-7.6
6	949.80	32.8 QP	46.0	-13.2	1.00 V	132	33.4	-0.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 20, 2020	Oct. 19, 2021
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 27, 2020	Oct. 26, 2021
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 26, 2021	Mar. 25, 2022
50 ohms Terminator	50	3	Oct. 26, 2020	Oct. 25, 2021
RF Cable	5D-FB	COCCAB-001	Sep. 26, 2020	Sep. 25, 2021
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
3. Tested Date: June 21 to July 07, 2021

4.2.3 Test Procedures

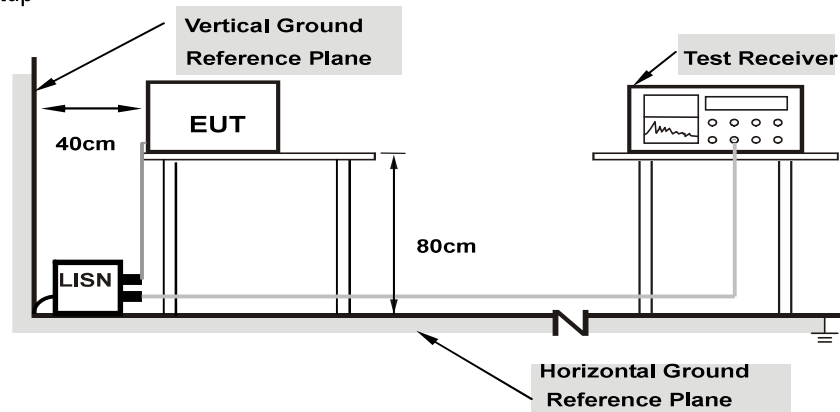
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

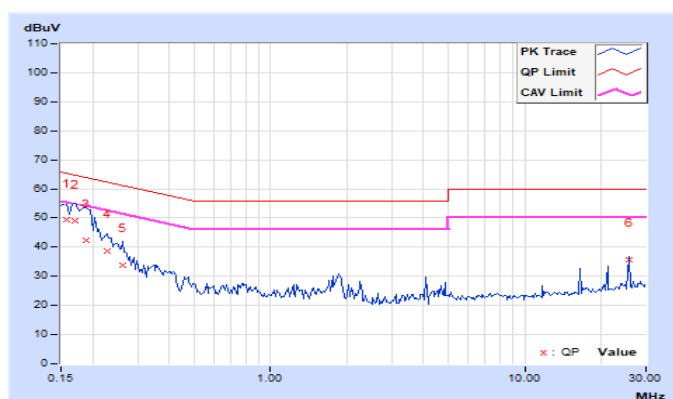
4.2.7 Test Results

RF Mode	TX 802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	9.95	39.14	19.49	49.09	29.44	65.58	55.58	-16.49	-26.14
2	0.16953	9.96	39.09	22.91	49.05	32.87	64.98	54.98	-15.93	-22.11
3	0.18906	9.97	32.41	14.75	42.38	24.72	64.08	54.08	-21.70	-29.36
4	0.22812	9.97	28.59	13.18	38.56	23.15	62.52	52.52	-23.96	-29.37
5	0.26328	9.98	23.78	9.30	33.76	19.28	61.33	51.33	-27.57	-32.05
6	25.87500	11.24	24.44	24.11	35.68	35.35	60.00	50.00	-24.32	-14.65

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

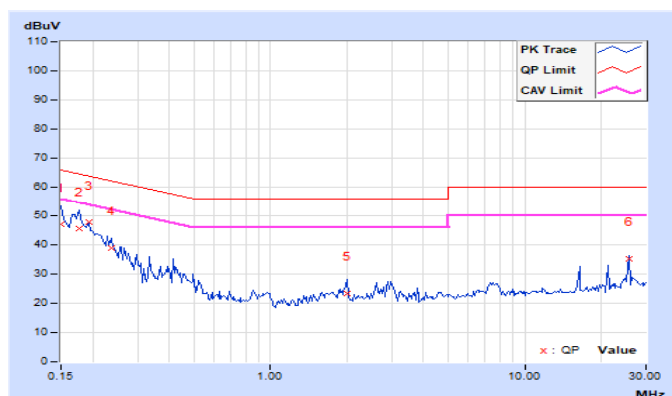


RF Mode	TX 802.11b	Channel	CH 6 : 2437 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.92	37.13	16.16	47.05	26.08	66.00	56.00	-18.95	-29.92
2	0.17734	9.94	35.54	16.45	45.48	26.39	64.61	54.61	-19.13	-28.22
3	0.19297	9.95	37.69	21.19	47.64	31.14	63.91	53.91	-16.27	-22.77
4	0.23594	9.95	28.97	11.81	38.92	21.76	62.24	52.24	-23.32	-30.48
5	2.00781	10.04	13.26	3.02	23.30	13.06	56.00	46.00	-32.70	-32.94
6	25.87500	10.91	24.23	24.05	35.14	34.96	60.00	50.00	-24.86	-15.04

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

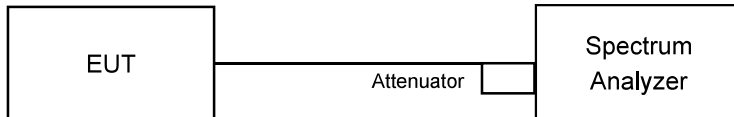


4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result (Mode 1)

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	10.19	10.19	0.5	Pass
6	2437	10.2	11.12	0.5	Pass
11	2462	10.2	10.18	0.5	Pass
12	2467	10.19	10.18	0.5	Pass
13	2472	10.18	10.18	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.38	15.13	0.5	Pass
6	2437	16.36	16.35	0.5	Pass
11	2462	16.38	15.13	0.5	Pass
12	2467	16.38	15.14	0.5	Pass
13	2472	16.37	15.13	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	18.6	15.14	0.5	Pass
6	2437	18.55	18.75	0.5	Pass
11	2462	18.63	15.14	0.5	Pass
12	2467	18.29	15.13	0.5	Pass
13	2472	15.13	15.13	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	38.11	35.09	0.5	Pass
6	2437	38.11	37.97	0.5	Pass
9	2452	38.12	35.12	0.5	Pass
10	2457	35.1	35.09	0.5	Pass
11	2462	35.12	35.1	0.5	Pass

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
			Chain 0	Chain 1		
26/0	1	2412	14.54	14.56	0.5	Pass
26/4	6	2437	2.67	2.69	0.5	Pass
26/8	11	2462	14.57	14.52	0.5	Pass
26/8	12	2467	14.58	14.52	0.5	Pass
26/8	13	2472	14.57	14.52	0.5	Pass

802.11ax (RU52)

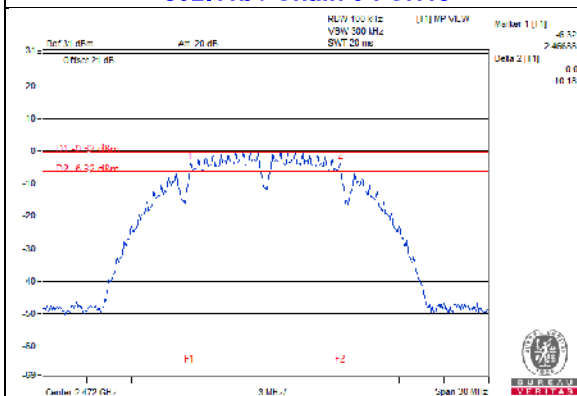
RU Configuration	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
			Chain 0	Chain 1		
52/37	1	2412	17.02	17.02	0.5	Pass
52/39	6	2437	9.15	9.15	0.5	Pass
52/40	11	2462	15.81	15.79	0.5	Pass
52/40	12	2467	16.99	15.78	0.5	Pass
52/40	13	2472	17	15.78	0.5	Pass

802.11ax (RU106)

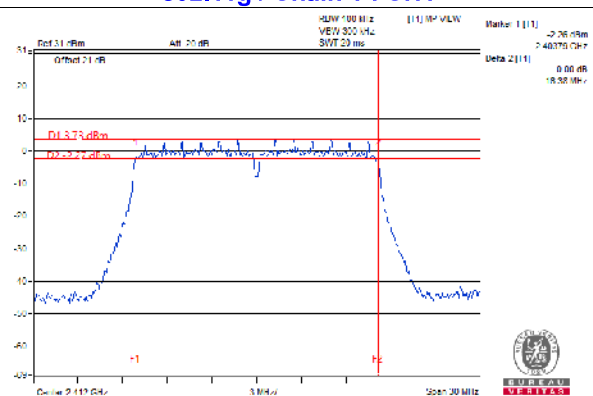
RU Configuration	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
			Chain 0	Chain 1		
106/53	1	2412	16.92	16.33	0.5	Pass
106/54	6	2437	15.73	16.97	0.5	Pass
106/54	11	2462	14.85	16.7	0.5	Pass
106/54	12	2467	16.03	16.7	0.5	Pass
106/54	13	2472	16	16.71	0.5	Pass

Spectrum Plot of Worst Value

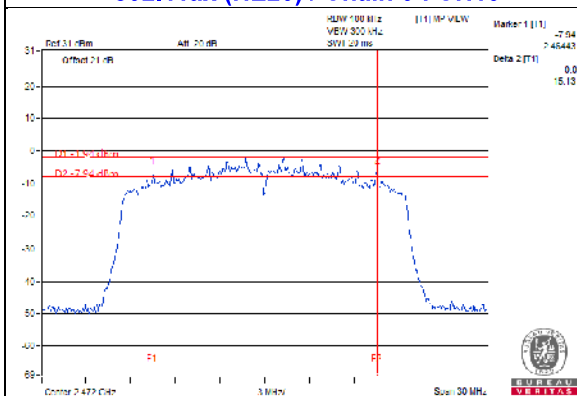
802.11b / Chain 0 : CH13



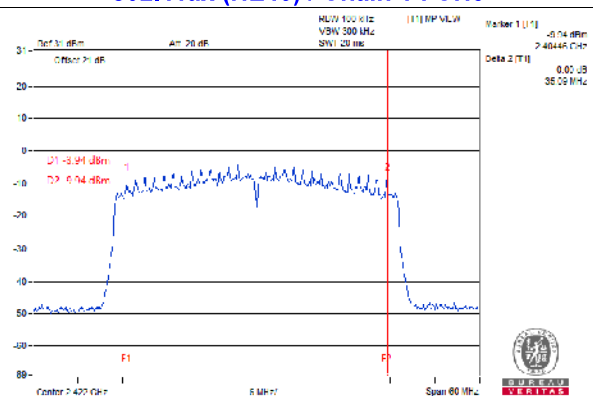
802.11g / Chain 1 : CH1



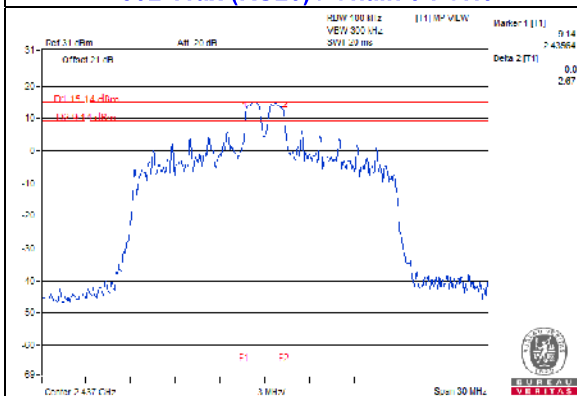
802.11ax (HE20) / Chain 0 : CH13



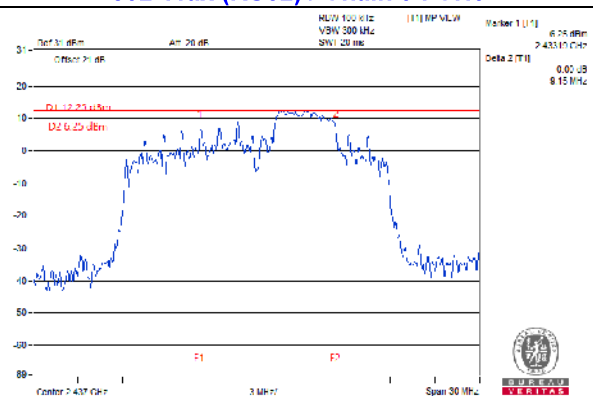
802.11ax (HE40) / Chain 1 : CH3



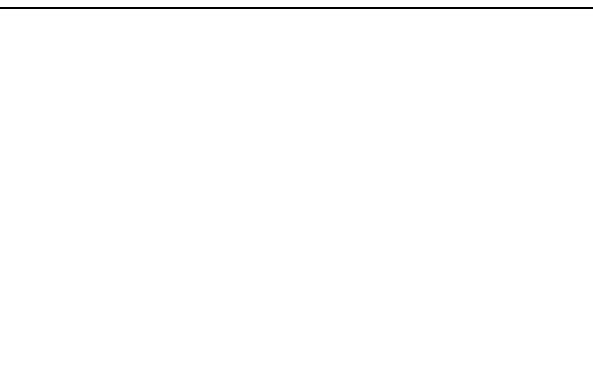
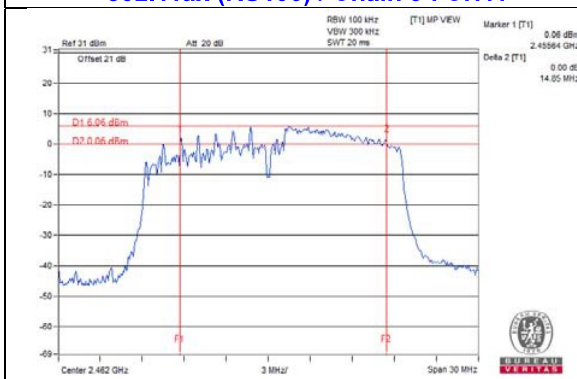
802.11ax (RU26) / Chain 0 : CH6



802.11ax (RU52) / Chain 0 : CH6



802.11ax (RU106) / Chain 0 : CH11



4.3.8 Test Result (Mode 2)

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	10.16	0.5	Pass
6	2437	10.15	0.5	Pass
11	2462	10.15	0.5	Pass
12	2467	10.16	0.5	Pass
13	2472	10.15	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.37	0.5	Pass
6	2437	16.36	0.5	Pass
11	2462	16.37	0.5	Pass
12	2467	16.37	0.5	Pass
13	2472	16.37	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	18.62	0.5	Pass
6	2437	18.99	0.5	Pass
11	2462	18.61	0.5	Pass
12	2467	18.64	0.5	Pass
13	2472	18.66	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	38.12	0.5	Pass
6	2437	38.12	0.5	Pass
9	2452	38.12	0.5	Pass
10	2457	38.12	0.5	Pass
11	2462	38.12	0.5	Pass

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
26/0	1	2412	14.56	0.5	Pass
26/4	6	2437	2.68	0.5	Pass
26/8	11	2462	14.51	0.5	Pass
26/8	12	2467	14.52	0.5	Pass
26/8	13	2472	14.52	0.5	Pass

802.11ax (RU52)

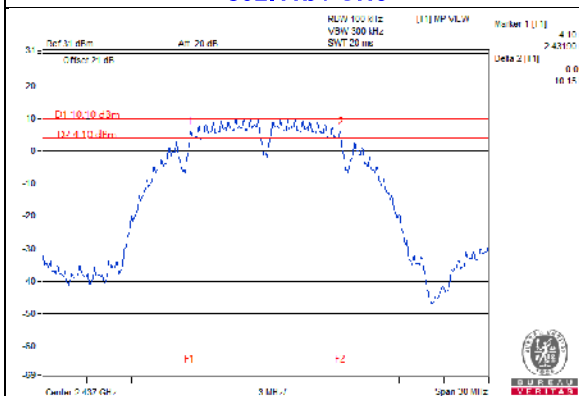
RU Configuration	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
52/37	1	2412	17.05	0.5	Pass
52/39	6	2437	9.16	0.5	Pass
52/40	11	2462	15.8	0.5	Pass
52/40	12	2467	15.81	0.5	Pass
52/40	13	2472	15.8	0.5	Pass

802.11ax (RU106)

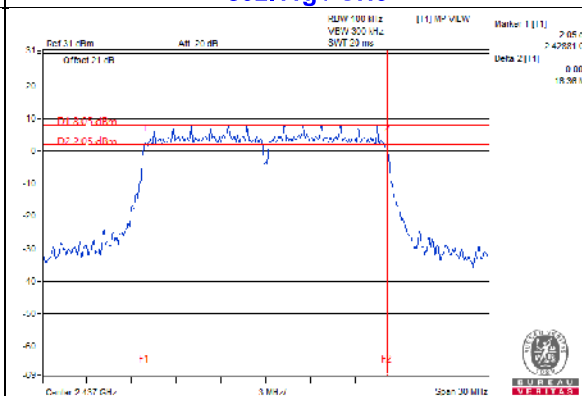
RU Configuration	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
106/53	1	2412	16.93	0.5	Pass
106/54	6	2437	14.84	0.5	Pass
106/54	11	2462	14.85	0.5	Pass
106/54	12	2467	16.03	0.5	Pass
106/54	13	2472	16.01	0.5	Pass

Spectrum Plot of Worst Value

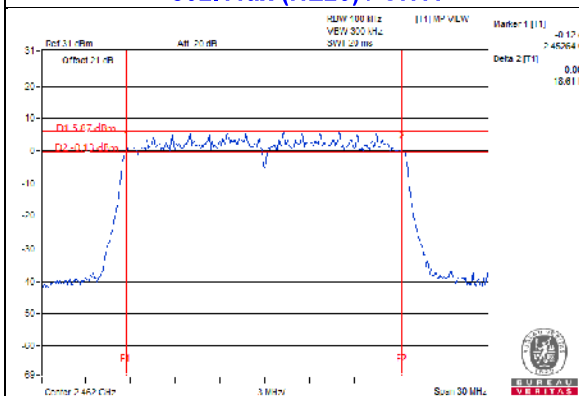
802.11b / CH6



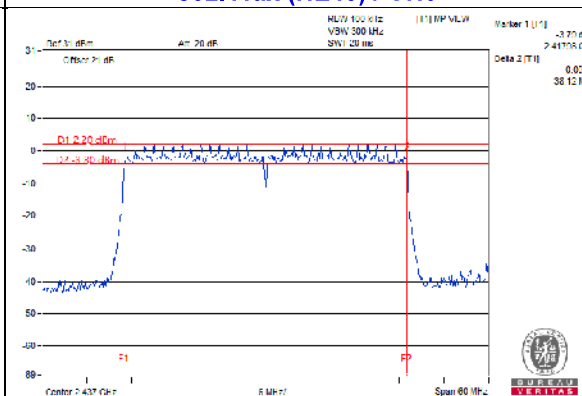
802.11g / CH6



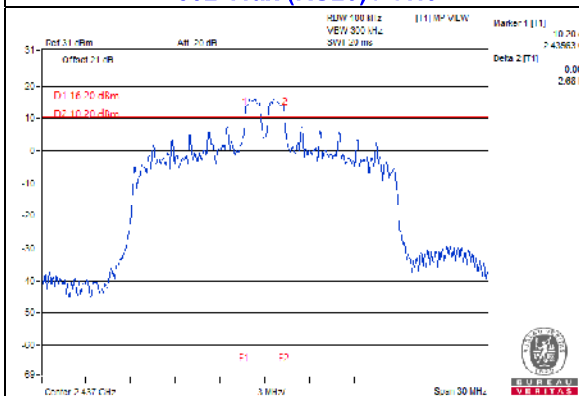
802.11ax (HE20) / CH11



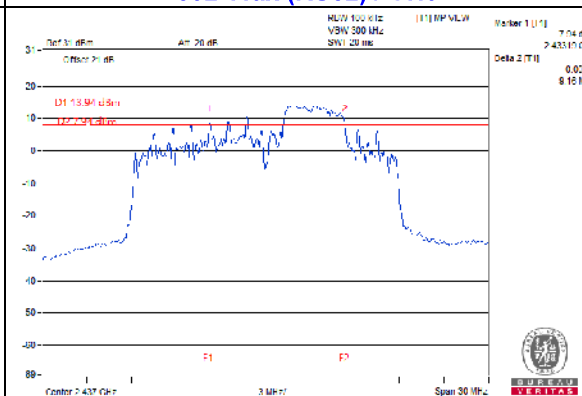
802.11ax (HE40) / CH6



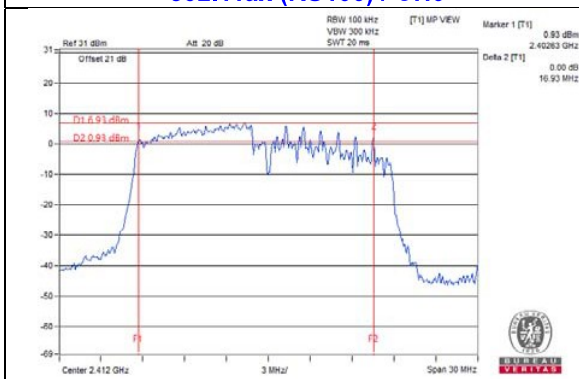
802.11ax (RU26) / CH6



802.11ax (RU52) / CH6



802.11ax (RU106) / CH6



4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

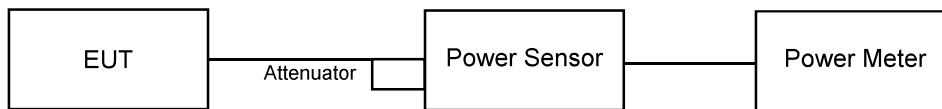
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as Item 4.3.6.

4.4.7 Test Results (Mode 1)

CDD Mode

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	19.81	20.05	196.877	22.94	30.00	Pass
6	2437	19.87	20.03	197.744	22.96	30.00	Pass
11	2462	19.73	20.12	196.774	22.94	30.00	Pass
12	2467	15.08	15.26	65.784	18.18	30.00	Pass
13	2472	11.81	11.94	30.802	14.89	30.00	Pass

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	16.74	16.93	96.524	19.85	30.00	Pass
6	2437	21.79	21.95	307.683	24.88	30.00	Pass
11	2462	16.86	17.10	99.815	19.99	30.00	Pass
12	2467	12.86	13.05	39.503	15.97	30.00	Pass
13	2472	11.80	12.15	31.542	14.99	30.00	Pass

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.62	15.95	75.83	18.80	30.00	Pass
6	2437	21.48	21.77	290.919	24.64	30.00	Pass
11	2462	15.71	15.97	76.776	18.85	30.00	Pass
12	2467	12.69	13.04	38.715	15.88	30.00	Pass
13	2472	11.61	11.81	29.658	14.72	30.00	Pass

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	14.44	14.93	58.914	17.70	30.00	Pass
6	2437	17.67	17.93	120.566	20.81	30.00	Pass
9	2452	14.63	14.95	60.301	17.80	30.00	Pass
10	2457	11.74	12.08	31.072	14.92	30.00	Pass
11	2462	10.59	10.97	23.958	13.79	30.00	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.77	16.14	78.872	18.97	30.00	Pass
6	2437	21.65	21.99	304.343	24.83	30.00	Pass
11	2462	15.88	16.16	80.031	19.03	30.00	Pass
12	2467	12.93	13.19	40.479	16.07	30.00	Pass
13	2472	11.80	12.04	31.131	14.93	30.00	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	14.63	15.10	61.4	17.88	30.00	Pass
6	2437	17.87	18.12	126.098	21.01	30.00	Pass
9	2452	14.82	15.12	62.848	17.98	30.00	Pass
10	2457	11.96	12.24	32.453	15.11	30.00	Pass
11	2462	10.82	11.13	25.05	13.99	30.00	Pass

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
			Chain 0	Chain 1				
26/0	1	2412	16.44	16.57	89.45	19.52	30.00	Pass
26/4	6	2437	19.89	19.24	181.445	22.59	30.00	Pass
26/8	11	2462	16.31	16.36	86.008	19.35	30.00	Pass
26/8	12	2467	13.91	14.07	50.131	17.00	30.00	Pass
26/8	13	2472	9.13	8.81	15.788	11.98	30.00	Pass

802.11ax (RU52)

RU Configuration	Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
			Chain 0	Chain 1				
52/37	1	2412	17.85	18.01	124.195	20.94	30.00	Pass
52/39	6	2437	20.07	19.89	199.124	22.99	30.00	Pass
52/40	11	2462	17.82	18.14	125.697	20.99	30.00	Pass
52/40	12	2467	12.85	13.25	40.41	16.06	30.00	Pass
52/40	13	2472	8.99	9.21	16.262	12.11	30.00	Pass

802.11ax (RU106)

RU Configuration	Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
			Chain 0	Chain 1				
106/53	1	2412	18.64	18.85	149.85	21.76	30.00	Pass
106/54	6	2437	21.18	21.08	259.453	24.14	30.00	Pass
106/54	11	2462	18.77	18.82	151.543	21.81	30.00	Pass
106/54	12	2467	16.28	16.35	85.614	19.33	30.00	Pass
106/54	13	2472	11.90	12.08	31.632	15.00	30.00	Pass

Beamforming Mode

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.62	15.95	75.83	18.80	29.49	Pass
6	2437	21.48	21.77	290.919	24.64	29.49	Pass
11	2462	15.71	15.97	76.776	18.85	29.49	Pass
12	2467	12.69	13.04	38.715	15.88	29.49	Pass
13	2472	11.61	11.81	29.658	14.72	29.49	Pass

Note: Directional gain = 3.5 dBi + 10 log(2) = 6.51dBi > 6dBi , so the power limit shall be reduced to 30-(6.51-6) = 29.49dBm.

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	14.44	14.93	58.914	17.70	29.49	Pass
6	2437	17.67	17.93	120.566	20.81	29.49	Pass
9	2452	14.63	14.95	60.301	17.80	29.49	Pass
10	2457	11.74	12.08	31.072	14.92	29.49	Pass
11	2462	10.59	10.97	23.958	13.79	29.49	Pass

Note: Directional gain = 3.5 dBi + 10 log(2) = 6.51dBi > 6dBi , so the power limit shall be reduced to 30-(6.51-6) = 29.49dBm.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.77	16.14	78.872	18.97	29.49	Pass
6	2437	21.65	21.99	304.343	24.83	29.49	Pass
11	2462	15.88	16.16	80.031	19.03	29.49	Pass
12	2467	12.93	13.19	40.479	16.07	29.49	Pass
13	2472	11.80	12.04	31.131	14.93	29.49	Pass

Note: Directional gain = 3.5 dBi + 10 log(2) = 6.51dBi > 6dBi , so the power limit shall be reduced to 30-(6.51-6) = 29.49dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	14.63	15.10	61.4	17.88	29.49	Pass
6	2437	17.87	18.12	126.098	21.01	29.49	Pass
9	2452	14.82	15.12	62.848	17.98	29.49	Pass
10	2457	11.96	12.24	32.453	15.11	29.49	Pass
11	2462	10.82	11.13	25.05	13.99	29.49	Pass

Note: Directional gain = 3.5 dBi +10 log(2) = 6.51dBi > 6dBi , so the power limit shall be reduced to 30-(6.51-6) = 29.49dBm.

4.4.8 Test Results (Mode 2)

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	171.396	22.34	30	Pass
6	2437	168.655	22.27	30	Pass
11	2462	165.959	22.20	30	Pass
12	2467	81.283	19.10	30	Pass
13	2472	34.834	15.42	30	Pass

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	109.144	20.38	30	Pass
6	2437	175.792	22.45	30	Pass
11	2462	102.329	20.10	30	Pass
12	2467	32.509	15.12	30	Pass
13	2472	25.351	14.04	30	Pass

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	108.393	20.35	30	Pass
6	2437	148.594	21.72	30	Pass
11	2462	90.573	19.57	30	Pass
12	2467	30.903	14.90	30	Pass
13	2472	24.717	13.93	30	Pass

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	79.983	19.03	30	Pass
6	2437	87.902	19.44	30	Pass
9	2452	67.608	18.30	30	Pass
10	2457	66.988	18.26	30	Pass
11	2462	59.979	17.78	30	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	110.662	20.44	30	Pass
6	2437	157.036	21.96	30	Pass
11	2462	92.257	19.65	30	Pass
12	2467	32.211	15.08	30	Pass
13	2472	25.763	14.11	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	81.283	19.10	30	Pass
6	2437	89.125	19.50	30	Pass
9	2452	71.779	18.56	30	Pass
10	2457	67.608	18.30	30	Pass
11	2462	60.814	17.84	30	Pass

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
26/0	1	2412	68.234	18.34	30.00	Pass
26/4	6	2437	172.187	22.36	30.00	Pass
26/8	11	2462	62.087	17.93	30.00	Pass
26/8	12	2467	32.063	15.06	30.00	Pass
26/8	13	2472	8.831	9.46	30.00	Pass

802.11ax (RU52)

RU Configuration	Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
52/37	1	2412	120.226	20.80	30.00	Pass
52/39	6	2437	174.985	22.43	30.00	Pass
52/40	11	2462	98.401	19.93	30.00	Pass
52/40	12	2467	86.298	19.36	30.00	Pass
52/40	13	2472	12.162	10.85	30.00	Pass

802.11ax (RU106)

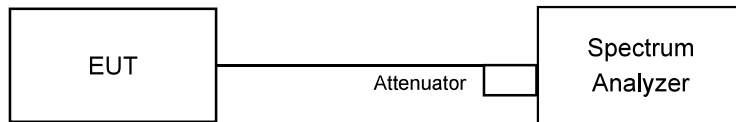
RU Configuration	Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
106/53	1	2412	112.72	20.52	30.00	Pass
106/54	6	2437	165.959	22.20	30.00	Pass
106/54	11	2462	94.624	19.76	30.00	Pass
106/54	12	2467	60.674	17.83	30.00	Pass
106/54	13	2472	33.806	15.29	30.00	Pass

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6

4.5.7 Test Results (Mode 1)

802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (mW/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1				
1	2412	-15.54	-16.88	0.04844	-13.15	7.49	PASS
6	2437	-15.99	-16.98	0.04522	-13.45	7.49	PASS
11	2462	-16.20	-16.36	0.04711	-13.27	7.49	PASS
12	2467	-19.75	-21.15	0.018266	-17.38	7.49	PASS
13	2472	-23.42	-24.42	0.008164	-20.88	7.49	PASS

- Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

802.11g

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Total PSD (mW/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1				
1	2412	-18.15	-19.72	0.02598	-15.85	7.49	PASS
6	2437	-13.69	-14.14	0.0813	-10.90	7.49	PASS
11	2462	-18.37	-20.04	0.024463	-16.11	7.49	PASS
12	2467	-21.75	-23.58	0.011069	-19.56	7.49	PASS
13	2472	-23.06	-25.00	0.008105	-20.91	7.49	PASS

- Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Total PSD (mW/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1				
1	2412	-19.14	-21.87	0.018691	-17.28	7.49	PASS
6	2437	-13.34	-15.16	0.07682	-11.15	7.49	PASS
11	2462	-19.44	-21.86	0.017893	-17.47	7.49	PASS
12	2467	-21.86	-24.40	0.010147	-19.94	7.49	PASS
13	2472	-24.17	-25.32	0.006766	-21.70	7.49	PASS

- Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/3kHz)		Total PSD (mW/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1				
3	2422	-23.32	-25.48	0.007487	-21.26	7.49	PASS
6	2437	-19.82	-21.80	0.01703	-17.69	7.49	PASS
9	2452	-23.02	-25.96	0.007524	-21.24	7.49	PASS
10	2457	-27.01	-28.48	0.00341	-24.67	7.49	PASS
11	2462	-27.81	-29.63	0.002745	-25.61	7.49	PASS

- Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

802.11ax (RU26)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (mW/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
			Chain0	Chain1				
26/0	1	2412	-9.63	-9.58	0.219	-6.60	7.49	PASS
26/4	6	2437	-7.53	-7.53	0.3532	-4.52	7.49	PASS
26/8	11	2462	-9.55	-9.75	0.2168	-6.64	7.49	PASS
26/8	12	2467	-12.28	-12.00	0.12225	-9.13	7.49	PASS
26/8	13	2472	-17.34	-17.16	0.03768	-14.24	7.49	PASS

- Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

802.11ax (RU52)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (mW/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
			Chain0	Chain1				
52/37	1	2412	-9.41	-9.19	0.2351	-6.29	7.49	PASS
52/39	6	2437	-9.19	-8.28	0.2691	-5.70	7.49	PASS
52/40	11	2462	-9.42	-9.19	0.2348	-6.29	7.49	PASS
52/40	12	2467	-14.91	-14.18	0.07048	-11.52	7.49	PASS
52/40	13	2472	-18.67	-17.88	0.02988	-15.25	7.49	PASS

- Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

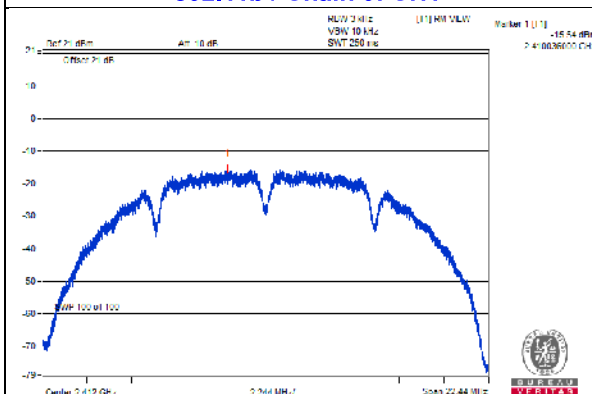
802.11ax (RU106)

RU Configuration	Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (mW/3kHz)	Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
			Chain0	Chain1				
106/53	1	2412	-10.80	-9.90	0.18551	-7.32	7.49	PASS
106/54	6	2437	-9.19	-8.75	0.2539	-5.95	7.49	PASS
106/54	11	2462	-9.02	-8.59	0.2637	-5.79	7.49	PASS
106/54	12	2467	-10.89	-12.40	0.13901	-8.57	7.49	PASS
106/54	13	2472	-17.11	-17.03	0.03927	-14.06	7.49	PASS

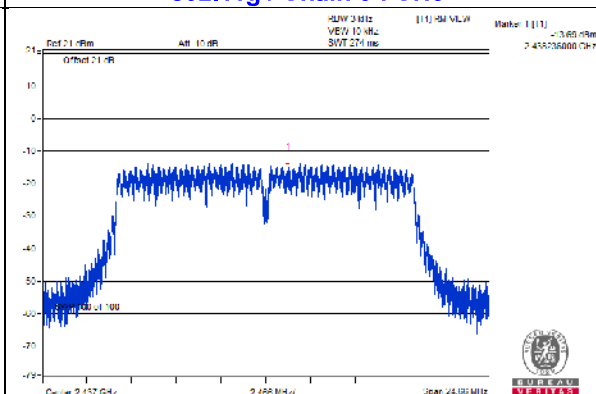
- Note:**
1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. Directional gain = 3.5 dBi + 10log(2) = 6.51 dBi, so the power density limit shall be reduced to 8-(6.51-6) = 7.49dBm.

Spectrum Plot of Worst Value

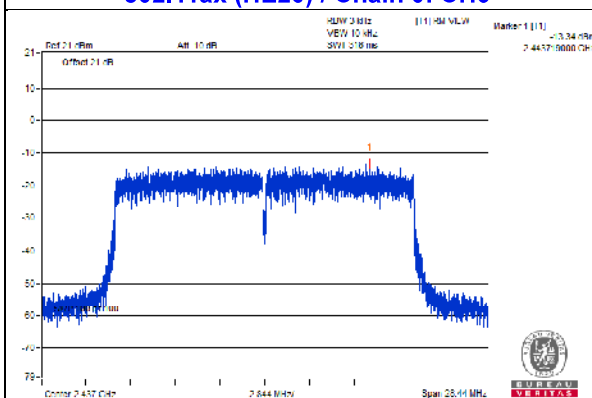
802.11b / Chain 0: CH1



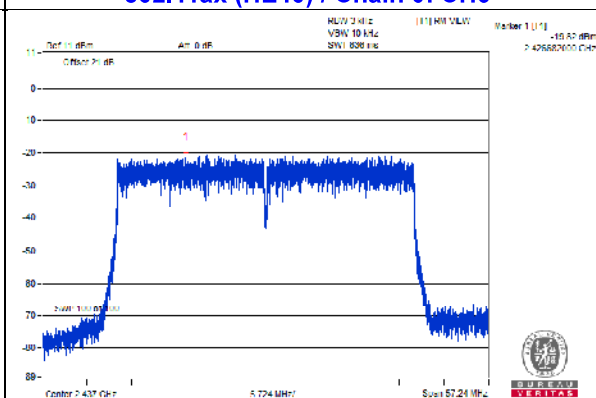
802.11g / Chain 0: CH6



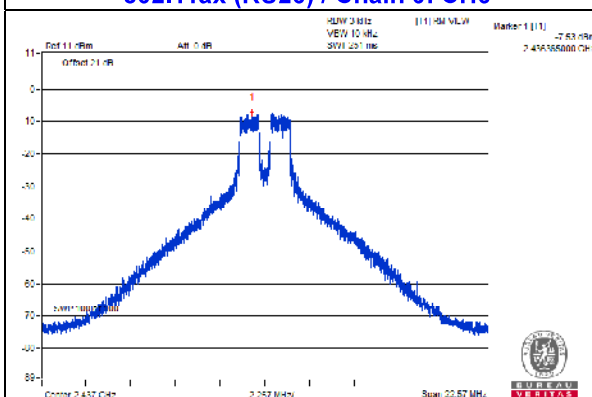
802.11ax (HE20) / Chain 0: CH6



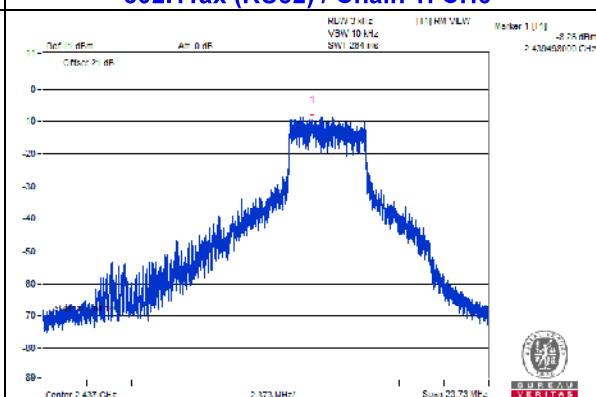
802.11ax (HE40) / Chain 0: CH6



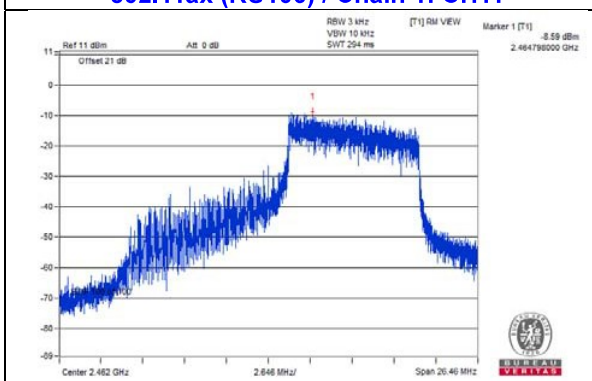
802.11ax (RU26) / Chain 0: CH6



802.11ax (RU52) / Chain 1: CH6



802.11ax (RU106) / Chain 1: CH11



4.5.8 Test Results (Mode 2)

802.11b

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-12.68	8	Pass
6	2437	-13.63	8	Pass
11	2462	-12.88	8	Pass
12	2467	-15.93	8	Pass
13	2472	-18.47	8	Pass

802.11g

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-14.60	8	Pass
6	2437	-13.90	8	Pass
11	2462	-15.29	8	Pass
12	2467	-20.29	8	Pass
13	2472	-21.45	8	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-14.06	8	Pass
6	2437	-13.77	8	Pass
11	2462	-15.71	8	Pass
12	2467	-20.75	8	Pass
13	2472	-21.67	8	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
3	2422	-18.88	8	Pass
6	2437	-18.33	8	Pass
9	2452	-19.72	8	Pass
10	2457	-20.19	8	Pass
11	2462	-19.75	8	Pass

802.11ax (RU26)

RU Configuration	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
26/0	1	2412	-8.47	8	Pass
26/4	6	2437	-5.61	8	Pass
26/8	11	2462	-8.43	8	Pass
26/8	12	2467	-11.31	8	Pass
26/8	13	2472	-16.08	8	Pass

802.11ax (RU52)

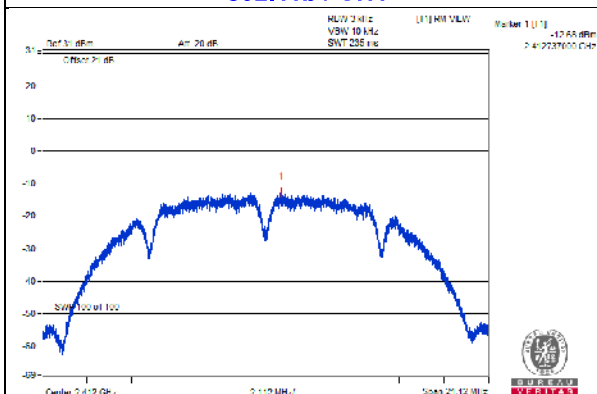
RU Configuration	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
52/37	1	2412	-7.46	8	Pass
52/39	6	2437	-6.01	8	Pass
52/40	11	2462	-7.69	8	Pass
52/40	12	2467	-8.40	8	Pass
52/40	13	2472	-17.81	8	Pass

802.11ax (RU106)

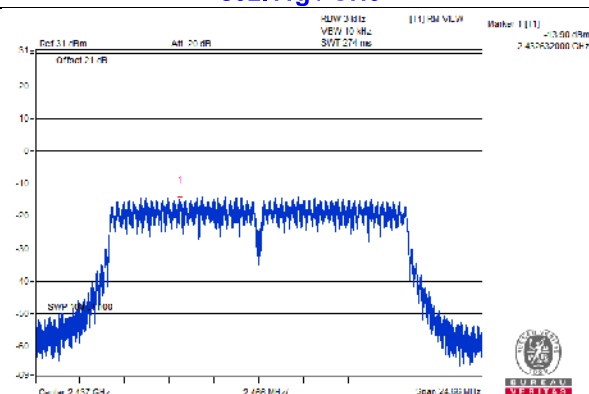
RU Configuration	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
106/53	1	2412	-8.45	8	Pass
106/54	6	2437	-7.37	8	Pass
106/54	11	2462	-9.40	8	Pass
106/54	12	2467	-11.07	8	Pass
106/54	13	2472	-13.23	8	Pass

Spectrum Plot of Worst Value

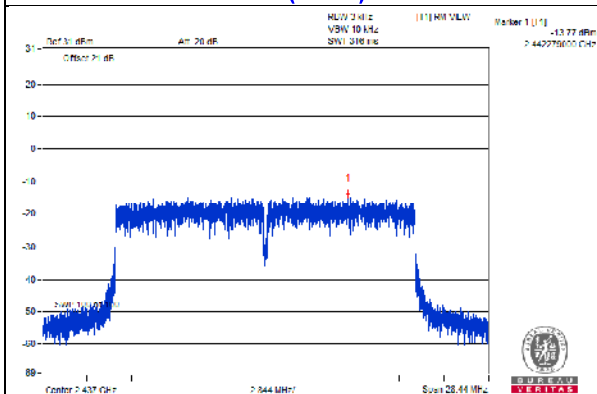
802.11b / CH1



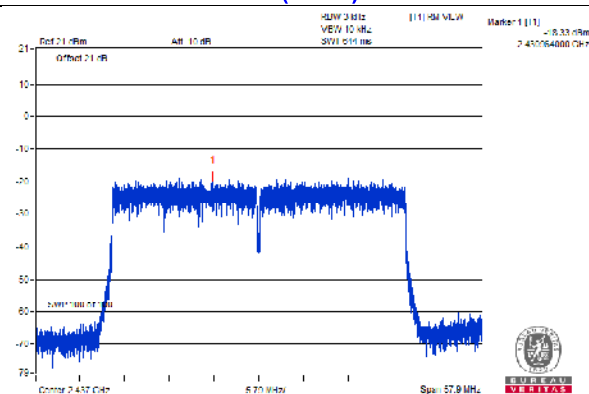
802.11g / CH6



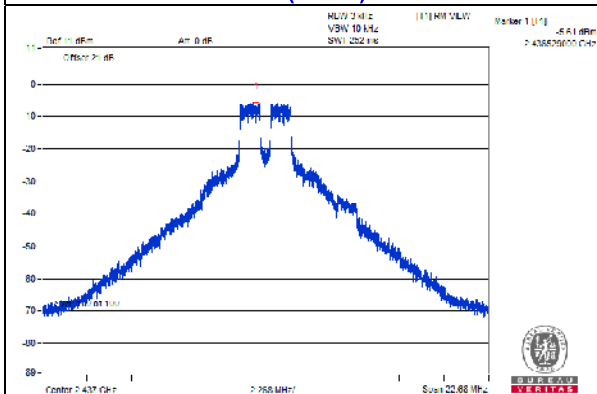
802.11ax (HE20) / CH6



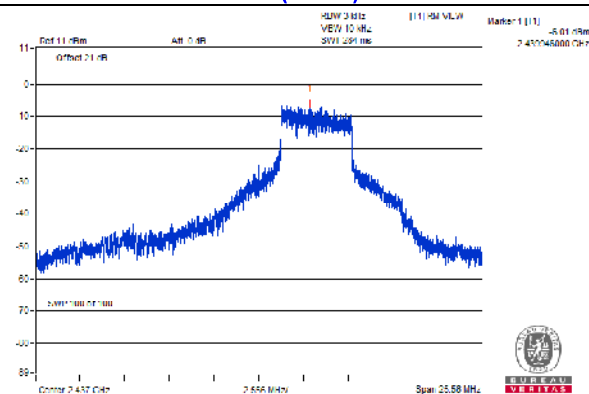
802.11ax (HE40) / CH6



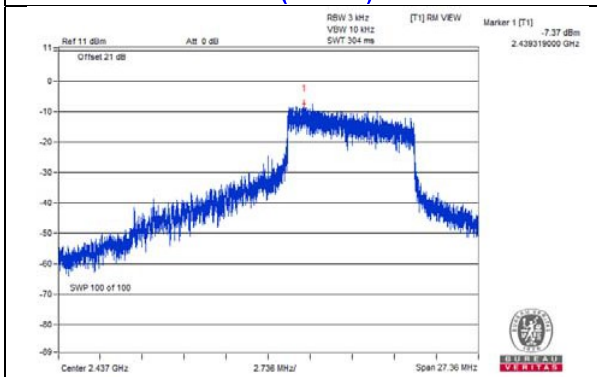
802.11ax (RU26) / CH6



802.11ax (RU52) / CH6



802.11ax (RU106) / CH6

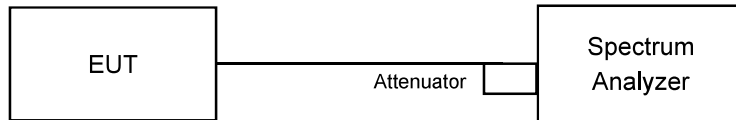


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

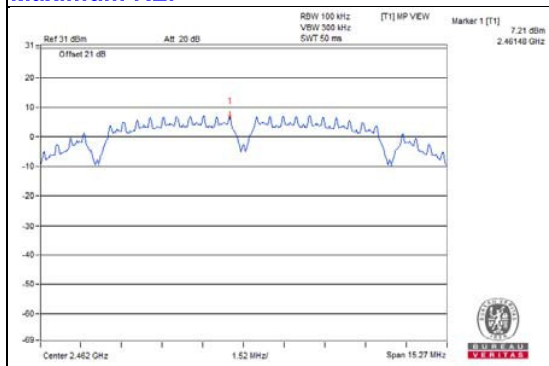
Same as Item 4.3.6

4.6.7 Test Results

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

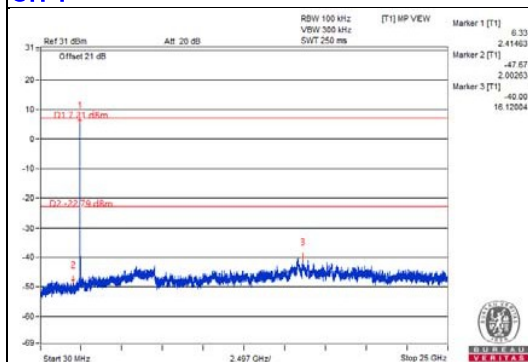
For Mode 1
802.11b

Maximum REF

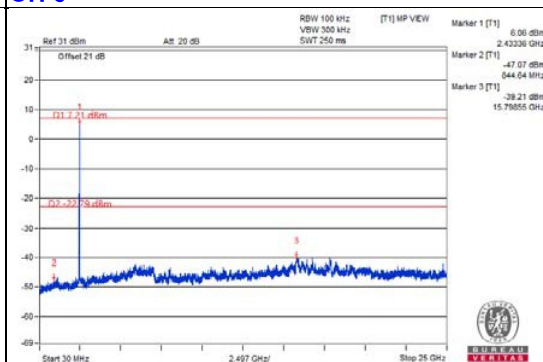


Chain 0

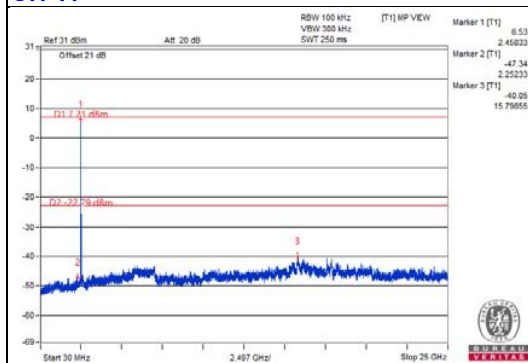
CH 1



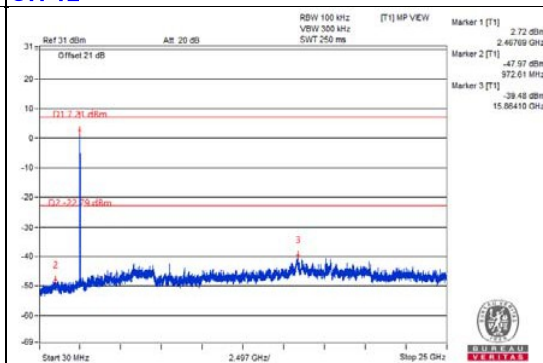
CH 6



CH 11



CH 12



CH 13

