

RF Mode	TX 802.11ax (HE40)	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	65.1 PK	74.0	-8.9	2.89 H	245	69.4	-4.3
2	2390.00	52.1 AV	54.0	-1.9	2.89 H	245	56.4	-4.3
3	*2437.00	116.7 PK			2.89 H	245	121.0	-4.3
4	*2437.00	105.5 AV			2.89 H	245	109.8	-4.3
5	2483.50	66.9 PK	74.0	-7.1	2.89 H	245	71.3	-4.4
6	2483.50	53.2 AV	54.0	-0.8	2.89 H	245	57.6	-4.4
7	4874.00	48.5 PK	74.0	-25.5	2.58 H	252	48.0	0.5
8	4874.00	47.0 AV	54.0	-7.0	2.58 H	252	46.5	0.5
9	7311.00	44.9 PK	74.0	-29.1	1.74 H	75	38.1	6.8
10	7311.00	40.1 AV	54.0	-13.9	1.74 H	75	33.3	6.8
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	61.4 PK	74.0	-12.6	1.15 V	279	65.7	-4.3
2	2390.00	49.9 AV	54.0	-4.1	1.15 V	279	54.2	-4.3
3	*2437.00	113.8 PK			1.15 V	279	118.1	-4.3
4	*2437.00	102.5 AV			1.15 V	279	106.8	-4.3
5	2483.50	61.0 PK	74.0	-13.0	1.15 V	279	65.4	-4.4
6	2483.50	49.9 AV	54.0	-4.1	1.15 V	279	54.3	-4.4
7	4874.00	47.7 PK	74.0	-26.3	1.32 V	227	47.2	0.5
8	4874.00	46.4 AV	54.0	-7.6	1.32 V	227	45.9	0.5
9	7311.00	44.6 PK	74.0	-29.4	1.05 V	53	37.8	6.8
10	7311.00	40.0 AV	54.0	-14.0	1.05 V	53	33.2	6.8

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 802.11ax (HE40)	Channel	CH 9 : 2452 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	*2452.00	113.5 PK			2.83 H	244	117.8	-4.3
2	*2452.00	103.0 AV			2.83 H	244	107.3	-4.3
3	2484.27	63.9 PK	74.0	-10.1	2.83 H	244	68.3	-4.4
4	2484.27	53.6 AV	54.0	-0.4	2.83 H	244	58.0	-4.4
5	4904.00	48.2 PK	74.0	-25.8	2.64 H	251	47.6	0.6
6	4904.00	46.9 AV	54.0	-7.1	2.64 H	251	46.3	0.6
7	7356.00	45.8 PK	74.0	-28.2	1.78 H	92	38.8	7.0
8	7356.00	41.0 AV	54.0	-13.0	1.78 H	92	34.0	7.0
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	*2452.00	110.7 PK			1.15 V	274	115.0	-4.3
2	*2452.00	97.9 AV			1.15 V	274	102.2	-4.3
3	2489.60	59.8 PK	74.0	-14.2	1.15 V	274	64.2	-4.4
4	2489.60	48.6 AV	54.0	-5.4	1.15 V	274	53.0	-4.4
5	4904.00	47.7 PK	74.0	-26.3	1.37 V	245	47.1	0.6
6	4904.00	46.6 AV	54.0	-7.4	1.37 V	245	46.0	0.6
7	7356.00	45.2 PK	74.0	-28.8	1.08 V	71	38.2	7.0
8	7356.00	40.3 AV	54.0	-13.7	1.08 V	71	33.3	7.0

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 802.11ax (HE40)	Channel	CH 10 : 2457 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	*2457.00	111.0 PK			2.87 H	245	115.3	-4.3
2	*2457.00	100.9 AV			2.87 H	245	105.2	-4.3
3	2483.50	62.7 PK	74.0	-11.3	2.87 H	245	67.1	-4.4
4	2483.50	53.4 AV	54.0	-0.6	2.87 H	245	57.8	-4.4
5	4914.00	48.1 PK	74.0	-25.9	2.65 H	265	47.4	0.7
6	4914.00	47.0 AV	54.0	-7.0	2.65 H	265	46.3	0.7
7	7371.00	45.8 PK	74.0	-28.2	1.73 H	99	38.7	7.1
8	7371.00	40.7 AV	54.0	-13.3	1.73 H	99	33.6	7.1
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	*2457.00	108.2 PK			1.20 V	275	112.5	-4.3
2	*2457.00	95.6 AV			1.20 V	275	99.9	-4.3
3	2487.18	57.5 PK	74.0	-16.5	1.20 V	275	61.9	-4.4
4	2487.18	47.8 AV	54.0	-6.2	1.20 V	275	52.2	-4.4
5	4914.00	47.4 PK	74.0	-26.6	1.30 V	223	46.7	0.7
6	4914.00	46.0 AV	54.0	-8.0	1.30 V	223	45.3	0.7
7	7371.00	45.3 PK	74.0	-28.7	1.00 V	66	38.2	7.1
8	7371.00	40.4 AV	54.0	-13.6	1.00 V	66	33.3	7.1

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 802.11ax (HE40)	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	107.0 PK			2.83 H	64	111.3	-4.3
2	*2462.00	97.3 AV			2.83 H	64	101.6	-4.3
3	2483.50	62.5 PK	74.0	-11.5	2.83 H	64	66.9	-4.4
4	2483.50	53.3 AV	54.0	-0.7	2.83 H	64	57.7	-4.4
5	4924.00	48.2 PK	74.0	-25.8	2.56 H	248	47.5	0.7
6	4924.00	46.9 AV	54.0	-7.1	2.56 H	248	46.2	0.7
7	7386.00	45.9 PK	74.0	-28.1	1.74 H	89	38.7	7.2
8	7386.00	40.9 AV	54.0	-13.1	1.74 H	89	33.7	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	*2462.00	106.4 PK			1.13 V	295	110.7	-4.3
2	*2462.00	93.8 AV			1.13 V	295	98.1	-4.3
3	2484.69	60.3 PK	74.0	-13.7	1.13 V	295	64.7	-4.4
4	2484.69	50.0 AV	54.0	-4.0	1.13 V	295	54.4	-4.4
5	4924.00	47.7 PK	74.0	-26.3	1.29 V	224	47.0	0.7
6	4924.00	46.4 AV	54.0	-7.6	1.29 V	224	45.7	0.7
7	7386.00	45.4 PK	74.0	-28.6	1.09 V	79	38.2	7.2
8	7386.00	40.4 AV	54.0	-13.6	1.09 V	79	33.2	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.

802.11ax (RU26)

RF Mode	TX 20MHz Preamble 802.11ax (RU26)	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	2368.45	70.5 PK	74.0	-3.5	2.70 H	245	74.7	-4.2
2	2368.45	53.6 AV	54.0	-0.4	2.70 H	245	57.8	-4.2
3	*2412.00	124.7 PK			2.70 H	245	129.0	-4.3
4	*2412.00	116.1 AV			2.70 H	245	120.4	-4.3
5	4824.00	49.3 PK	74.0	-24.7	1.17 H	77	48.8	0.5
6	4824.00	43.7 AV	54.0	-10.3	1.17 H	77	43.2	0.5
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	2370.60	67.8 PK	74.0	-6.2	1.19 V	275	72.0	-4.2
2	2370.60	51.5 AV	54.0	-2.5	1.19 V	275	55.7	-4.2
3	*2412.00	121.5 PK			1.19 V	275	125.8	-4.3
4	*2412.00	113.6 AV			1.19 V	275	117.9	-4.3
5	4824.00	50.6 PK	74.0	-23.4	2.12 V	136	50.1	0.5
6	4824.00	44.6 AV	54.0	-9.4	2.12 V	136	44.1	0.5

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 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	124.4 PK			2.65 H	239	128.7	-4.3
2	*2462.00	115.5 AV			2.65 H	239	119.8	-4.3
3	2486.10	69.7 PK	74.0	-4.3	2.65 H	239	74.1	-4.4
4	2486.10	53.0 AV	54.0	-1.0	2.65 H	239	57.4	-4.4
5	2486.90	66.0 PK	74.0	-8.0	2.65 H	239	70.4	-4.4
6	2486.90	53.6 AV	54.0	-0.4	2.65 H	239	58.0	-4.4
7	4924.00	51.1 PK	74.0	-22.9	1.22 H	85	50.4	0.7
8	4924.00	44.3 AV	54.0	-9.7	1.22 H	85	43.6	0.7
9	7386.00	50.7 PK	74.0	-23.3	3.00 H	275	43.5	7.2
10	7386.00	40.5 AV	54.0	-13.5	3.00 H	275	33.3	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	*2462.00	121.1 PK			1.00 V	285	125.4	-4.3
2	*2462.00	113.4 AV			1.00 V	285	117.7	-4.3
3	2486.10	62.5 PK	74.0	-11.5	1.00 V	285	66.9	-4.4
4	2486.10	48.6 AV	54.0	-5.4	1.00 V	285	53.0	-4.4
5	2487.30	60.2 PK	74.0	-13.8	1.00 V	285	64.6	-4.4
6	2487.30	50.6 AV	54.0	-3.4	1.00 V	285	55.0	-4.4
7	4924.00	51.1 PK	74.0	-22.9	2.11 V	152	50.4	0.7
8	4924.00	45.0 AV	54.0	-9.0	2.11 V	152	44.3	0.7
9	7386.00	49.7 PK	74.0	-24.3	2.03 V	149	42.5	7.2
10	7386.00	39.5 AV	54.0	-14.5	2.03 V	149	32.3	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 (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	121.6 PK			2.73 H	251	125.9	-4.3
2	*2467.00	113.4 AV			2.73 H	251	117.7	-4.3
3	2483.50	67.6 PK	74.0	-6.4	2.73 H	251	72.0	-4.4
4	2483.50	53.0 AV	54.0	-1.0	2.73 H	251	57.4	-4.4
5	2484.55	66.5 PK	74.0	-7.5	2.73 H	251	70.9	-4.4
6	2484.55	53.5 AV	54.0	-0.5	2.73 H	251	57.9	-4.4
7	4934.00	48.4 PK	74.0	-25.6	1.20 H	89	47.6	0.8
8	4934.00	42.8 AV	54.0	-11.2	1.20 H	89	42.0	0.8
9	7401.00	49.9 PK	74.0	-24.1	2.95 H	276	42.6	7.3
10	7401.00	39.7 AV	54.0	-14.3	2.95 H	276	32.4	7.3
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	118.2 PK			1.10 V	278	122.5	-4.3
2	*2467.00	110.2 AV			1.10 V	278	114.5	-4.3
3	2484.20	60.7 PK	74.0	-13.3	1.10 V	278	65.1	-4.4
4	2484.20	48.6 AV	54.0	-5.4	1.10 V	278	53.0	-4.4
5	2486.07	62.5 PK	74.0	-11.5	1.10 V	278	66.9	-4.4
6	2486.07	47.3 AV	54.0	-6.7	1.10 V	278	51.7	-4.4
7	4934.00	48.7 PK	74.0	-25.3	2.19 V	143	47.9	0.8
8	4934.00	43.8 AV	54.0	-10.2	2.19 V	143	43.0	0.8
9	7401.00	48.8 PK	74.0	-25.2	2.02 V	134	41.5	7.3
10	7401.00	38.7 AV	54.0	-15.3	2.02 V	134	31.4	7.3

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	116.5 PK			2.61 H	255	120.8	-4.3
2	*2472.00	106.5 AV			2.61 H	255	110.8	-4.3
3	2483.50	73.9 PK	74.0	-0.1	2.61 H	255	78.3	-4.4
4	2483.50	53.7 AV	54.0	-0.3	2.61 H	255	58.1	-4.4
5	4944.00	40.8 PK	74.0	-33.2	1.24 H	95	40.0	0.8
6	4944.00	35.3 AV	54.0	-18.7	1.24 H	95	34.5	0.8
7	7416.00	42.3 PK	74.0	-31.7	2.96 H	271	35.0	7.3
8	7416.00	35.7 AV	54.0	-18.3	2.96 H	271	28.4	7.3
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	113.7 PK			1.17 V	272	118.0	-4.3
2	*2472.00	103.7 AV			1.17 V	272	108.0	-4.3
3	2483.50	73.8 PK	74.0	-0.2	1.17 V	272	78.2	-4.4
4	2483.50	53.3 AV	54.0	-0.7	1.17 V	272	57.7	-4.4
5	4944.00	41.8 PK	74.0	-32.2	2.20 V	132	41.0	0.8
6	4944.00	36.3 AV	54.0	-17.7	2.20 V	132	35.5	0.8
7	7416.00	41.1 PK	74.0	-32.9	2.03 V	154	33.8	7.3
8	7416.00	34.7 AV	54.0	-19.3	2.03 V	154	27.4	7.3

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.

802.11ax (RU52)

ABOVE 1GHz DATA

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	73.2 PK	74.0	-0.8	2.65 H	248	77.5	-4.3
2	2390.00	53.9 AV	54.0	-0.1	2.65 H	248	58.2	-4.3
3	*2437.00	124.5 PK			2.65 H	248	128.8	-4.3
4	*2437.00	116.8 AV			2.65 H	248	121.1	-4.3
5	2483.50	62.2 PK	74.0	-11.8	2.65 H	248	66.6	-4.4
6	2483.50	47.0 AV	54.0	-7.0	2.65 H	248	51.4	-4.4
7	4874.00	51.8 PK	74.0	-22.2	1.23 H	81	51.3	0.5
8	4874.00	45.1 AV	54.0	-8.9	1.23 H	81	44.6	0.5
9	7311.00	51.5 PK	74.0	-22.5	2.91 H	279	44.7	6.8
10	7311.00	41.0 AV	54.0	-13.0	2.91 H	279	34.2	6.8

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	65.7 PK	74.0	-8.3	1.21 V	272	70.0	-4.3
2	2390.00	50.0 AV	54.0	-4.0	1.21 V	272	54.3	-4.3
3	*2437.00	121.8 PK			1.21 V	272	126.1	-4.3
4	*2437.00	113.0 AV			1.21 V	272	117.3	-4.3
5	2483.50	62.7 PK	74.0	-11.3	1.21 V	272	67.1	-4.4
6	2483.50	47.4 AV	54.0	-6.6	1.21 V	272	51.8	-4.4
7	4874.00	51.4 PK	74.0	-22.6	2.13 V	126	50.9	0.5
8	4874.00	45.2 AV	54.0	-8.8	2.13 V	126	44.7	0.5
9	7311.00	49.7 PK	74.0	-24.3	2.04 V	145	42.9	6.8
10	7311.00	39.8 AV	54.0	-14.2	2.04 V	145	33.0	6.8

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.

802.11ax (RU106)

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	2389.47	73.7 PK	74.0	-0.3	2.68 H	240	77.9	-4.2
2	2389.47	53.1 AV	54.0	-0.9	2.68 H	240	57.3	-4.2
3	*2412.00	119.3 PK			2.68 H	240	123.6	-4.3
4	*2412.00	110.5 AV			2.68 H	240	114.8	-4.3
5	4824.00	51.4 PK	74.0	-22.6	1.25 H	70	50.9	0.5
6	4824.00	44.8 AV	54.0	-9.2	1.25 H	70	44.3	0.5
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	2390.00	70.5 PK	74.0	-3.5	1.01 V	280	74.8	-4.3
2	2390.00	52.8 AV	54.0	-1.2	1.01 V	280	57.1	-4.3
3	*2412.00	115.9 PK			1.01 V	280	120.2	-4.3
4	*2412.00	107.4 AV			1.01 V	280	111.7	-4.3
5	4824.00	51.3 PK	74.0	-22.7	2.12 V	155	50.8	0.5
6	4824.00	45.0 AV	54.0	-9.0	2.12 V	155	44.5	0.5

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 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	119.5 PK			2.53 H	235	123.8	-4.3
2	*2462.00	109.9 AV			2.53 H	235	114.2	-4.3
3	2484.36	71.4 PK	74.0	-2.6	2.53 H	235	75.8	-4.4
4	2484.36	53.7 AV	54.0	-0.3	2.53 H	235	58.1	-4.4
5	4924.00	51.7 PK	74.0	-22.3	1.18 H	79	51.0	0.7
6	4924.00	44.8 AV	54.0	-9.2	1.18 H	79	44.1	0.7
7	7386.00	51.1 PK	74.0	-22.9	2.98 H	269	43.9	7.2
8	7386.00	40.9 AV	54.0	-13.1	2.98 H	269	33.7	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	*2462.00	115.3 PK			1.21 V	270	119.6	-4.3
2	*2462.00	106.9 AV			1.21 V	270	111.2	-4.3
3	2485.23	65.7 PK	74.0	-8.3	1.21 V	270	70.1	-4.4
4	2485.23	48.6 AV	54.0	-5.4	1.21 V	270	53.0	-4.4
5	4924.00	51.4 PK	74.0	-22.6	2.08 V	149	50.7	0.7
6	4924.00	45.0 AV	54.0	-9.0	2.08 V	149	44.3	0.7
7	7386.00	49.7 PK	74.0	-24.3	2.04 V	165	42.5	7.2
8	7386.00	39.6 AV	54.0	-14.4	2.04 V	165	32.4	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 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			2.70 H	250	120.6	-4.3
2	*2467.00	107.1 AV			2.70 H	250	111.4	-4.3
3	2483.50	69.3 PK	74.0	-4.7	2.70 H	250	73.7	-4.4
4	2483.50	53.7 AV	54.0	-0.3	2.70 H	250	58.1	-4.4
5	4934.00	49.0 PK	74.0	-25.0	1.14 H	105	48.2	0.8
6	4934.00	43.1 AV	54.0	-10.9	1.14 H	105	42.3	0.8
7	7401.00	50.1 PK	74.0	-23.9	2.95 H	277	42.8	7.3
8	7401.00	39.6 AV	54.0	-14.4	2.95 H	277	32.3	7.3
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	113.2 PK			1.16 V	269	117.5	-4.3
2	*2467.00	104.9 AV			1.16 V	269	109.2	-4.3
3	2483.50	61.5 PK	74.0	-12.5	1.16 V	269	65.9	-4.4
4	2483.50	52.4 AV	54.0	-1.6	1.16 V	269	56.8	-4.4
5	2486.03	67.3 PK	74.0	-6.7	1.16 V	269	71.7	-4.4
6	2486.03	49.7 AV	54.0	-4.3	1.16 V	269	54.1	-4.4
7	4934.00	48.7 PK	74.0	-25.3	2.15 V	140	47.9	0.8
8	4934.00	43.5 AV	54.0	-10.5	2.15 V	140	42.7	0.8
9	7401.00	48.6 PK	74.0	-25.4	2.01 V	135	41.3	7.3
10	7401.00	38.7 AV	54.0	-15.3	2.01 V	135	31.4	7.3

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	111.8 PK			2.63 H	256	116.1	-4.3
2	*2472.00	102.5 AV			2.63 H	256	106.8	-4.3
3	2483.50	73.1 PK	74.0	-0.9	2.63 H	256	77.5	-4.4
4	2483.50	53.8 AV	54.0	-0.2	2.63 H	256	58.2	-4.4
5	4944.00	40.8 PK	74.0	-33.2	1.26 H	84	40.0	0.8
6	4944.00	35.1 AV	54.0	-18.9	1.26 H	84	34.3	0.8
7	7416.00	42.4 PK	74.0	-31.6	2.93 H	284	35.1	7.3
8	7416.00	35.8 AV	54.0	-18.2	2.93 H	284	28.5	7.3
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	108.6 PK			1.21 V	273	112.9	-4.3
2	*2472.00	101.8 AV			1.21 V	273	106.1	-4.3
3	2483.50	68.8 PK	74.0	-5.2	1.21 V	273	73.2	-4.4
4	2483.50	50.5 AV	54.0	-3.5	1.21 V	273	54.9	-4.4
5	4944.00	41.5 PK	74.0	-32.5	2.24 V	118	40.7	0.8
6	4944.00	35.9 AV	54.0	-18.1	2.24 V	118	35.1	0.8
7	7416.00	40.6 PK	74.0	-33.4	2.06 V	167	33.3	7.3
8	7416.00	34.2 AV	54.0	-19.8	2.06 V	167	26.9	7.3

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.

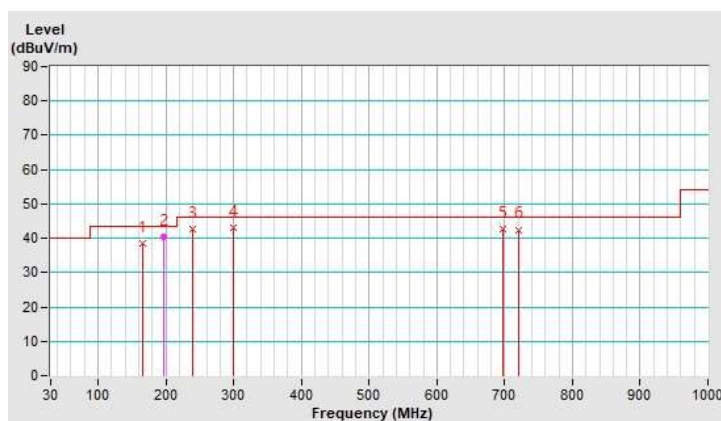
Below 1GHz Data:

RF Mode	TX 802.11b	Channel	CH 1 : 2412 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	165.33	38.4 QP	43.5	-5.1	2.00 H	257	50.7	-12.3
2	197.37	40.5 QP	43.5	-3.0	1.50 H	60	55.6	-15.1
3	240.05	42.8 QP	46.0	-3.2	1.50 H	294	55.9	-13.1
4	298.97	43.0 QP	46.0	-3.0	2.00 H	317	53.7	-10.7
5	697.69	42.8 QP	46.0	-3.2	1.00 H	274	43.3	-0.5
6	720.96	42.5 QP	46.0	-3.5	1.50 H	211	42.7	-0.2

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.

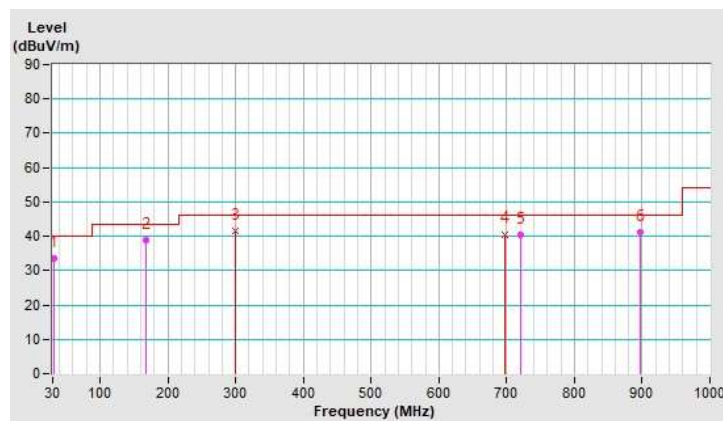


RF Mode	TX 802.11b	Channel	CH 1 : 2412 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	31.97	33.4 QP	40.0	-6.6	1.00 V	325	46.9	-13.5
2	167.43	38.9 QP	43.5	-4.6	1.50 V	350	51.1	-12.2
3	299.31	41.5 QP	46.0	-4.5	2.00 V	321	52.2	-10.7
4	697.97	40.6 QP	46.0	-5.4	1.50 V	255	41.1	-0.5
5	720.31	40.5 QP	46.0	-5.5	1.00 V	307	40.7	-0.2
6	897.37	41.2 QP	46.0	-4.8	1.50 V	287	37.7	3.5

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 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
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

Note:

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: Mar. 20, 2021

4.2.3 Test Procedures

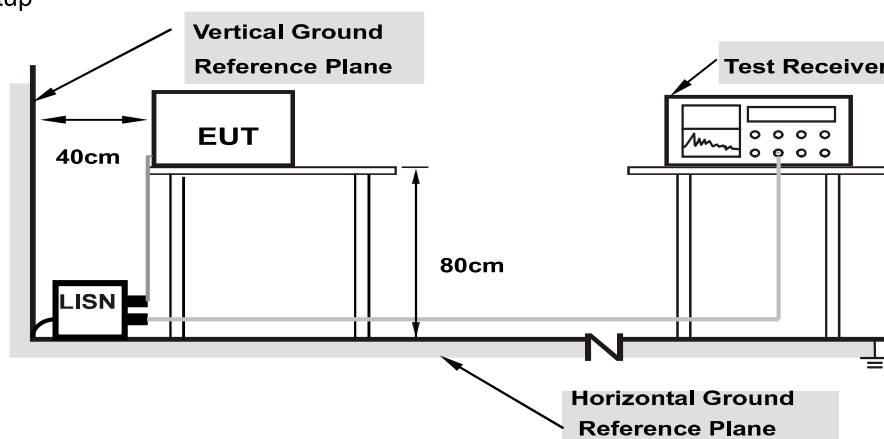
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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 1 : 2412 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	0.15911	9.95	34.49	16.73	44.44	26.68	65.51	55.51	-21.07	-28.83
2	0.18275	9.96	38.74	27.56	48.70	37.52	64.36	54.36	-15.66	-16.84
3	0.22487	9.97	30.85	19.09	40.82	29.06	62.64	52.64	-21.82	-23.58
4	0.44498	9.99	25.37	16.47	35.36	26.46	56.97	46.97	-21.61	-20.51
5	1.45453	10.05	16.40	11.18	26.45	21.23	56.00	46.00	-29.55	-24.77
6	13.95813	10.77	15.74	8.67	26.51	19.44	60.00	50.00	-33.49	-30.56

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 1 : 2412 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	0.15105	9.92	42.37	23.66	52.29	33.58	65.94	55.94	-13.65	-22.36
2	0.16803	9.93	35.86	13.50	45.79	23.43	65.06	55.06	-19.27	-31.63
3	0.22572	9.95	30.67	16.79	40.62	26.74	62.61	52.61	-21.99	-25.87
4	0.27567	9.95	26.57	19.70	36.52	29.65	60.95	50.95	-24.43	-21.30
5	0.45258	9.96	25.62	18.74	35.58	28.70	56.83	46.83	-21.25	-18.13
6	1.44501	10.02	11.49	4.37	21.51	14.39	56.00	46.00	-34.49	-31.61

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

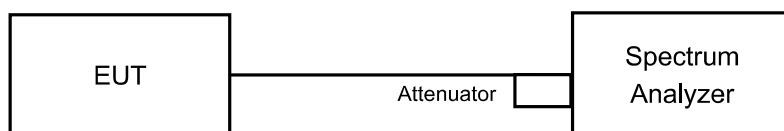


4.3 6dB Bandwidth Measurement

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 specific channel frequencies individually.

4.3.7 Test Result

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.13	8.12	0.5	Pass
6	2437	8.07	8.6	0.5	Pass
11	2462	8.11	8.13	0.5	Pass
12	2467	8.11	8.1	0.5	Pass
13	2472	8.1	8.09	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.36	16.4	0.5	Pass
6	2437	16.06	16.3	0.5	Pass
11	2462	16.05	16.31	0.5	Pass
12	2467	15.84	16.36	0.5	Pass
13	2472	16.36	16.38	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	18.96	18.93	0.5	Pass
6	2437	18.83	18.48	0.5	Pass
11	2462	18.58	18.31	0.5	Pass
12	2467	18.72	18.71	0.5	Pass
13	2472	18.89	18.82	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	36.72	35.31	0.5	Pass
6	2437	36.86	35.24	0.5	Pass
9	2452	36.32	35.21	0.5	Pass
10	2457	37.51	36.86	0.5	Pass
11	2462	37.06	35.83	0.5	Pass

802.11ax (RU26)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	2.15	2.14	0.5	Pass
11	2462	2.16	2.17	0.5	Pass
12	2467	2.14	2.12	0.5	Pass
13	2472	2.1	2.15	0.5	Pass

802.11ax (RU52)

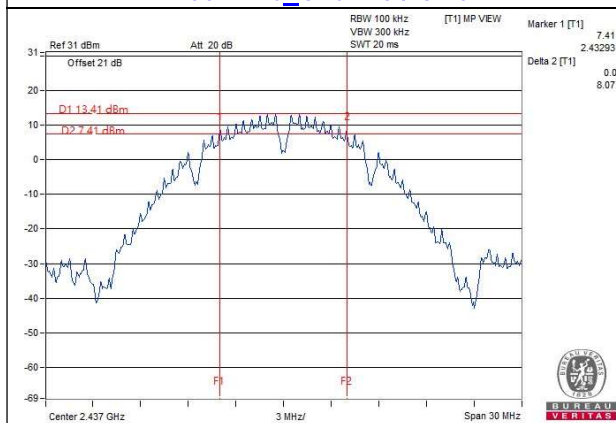
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
6	2437	17.16	14.61	0.5	Pass

802.11ax (RU106)

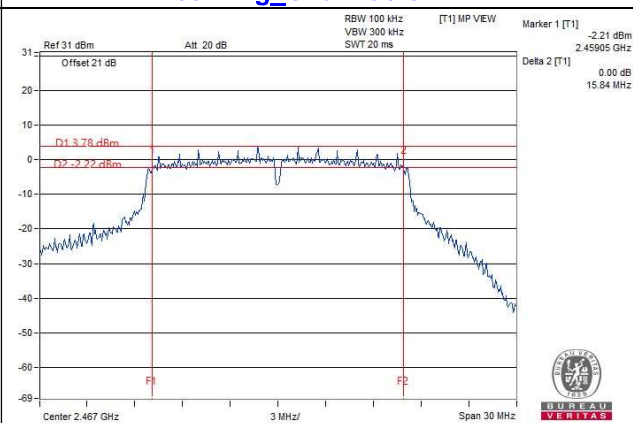
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.21	17.18	0.5	Pass
11	2462	17.22	17.2	0.5	Pass
12	2467	17.22	17.19	0.5	Pass
13	2472	17.21	17.17	0.5	Pass

Spectrum Plot of Worst Value

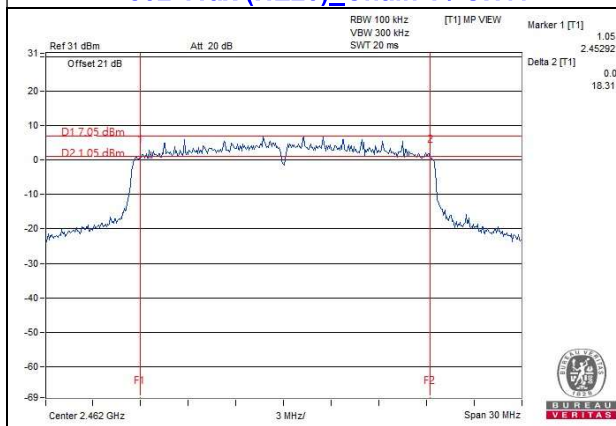
802.11b_Chain 0 / CH6



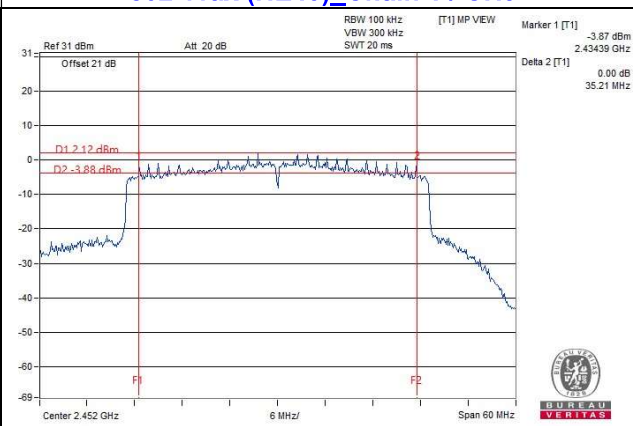
802.11g_Chain 0 / CH12



802.11ax (HE20)_Chain 1 / CH11

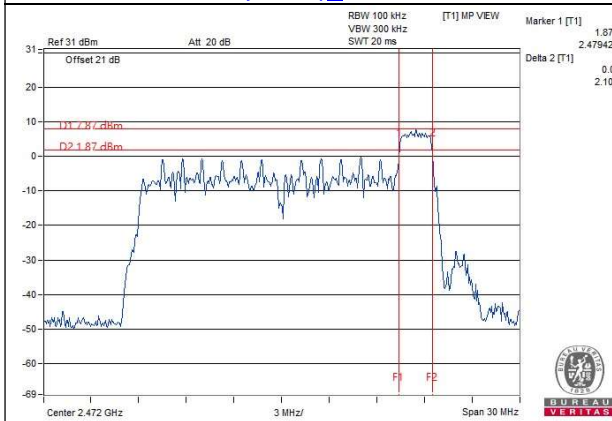


802.11ax (HE40)_Chain 1 / CH9

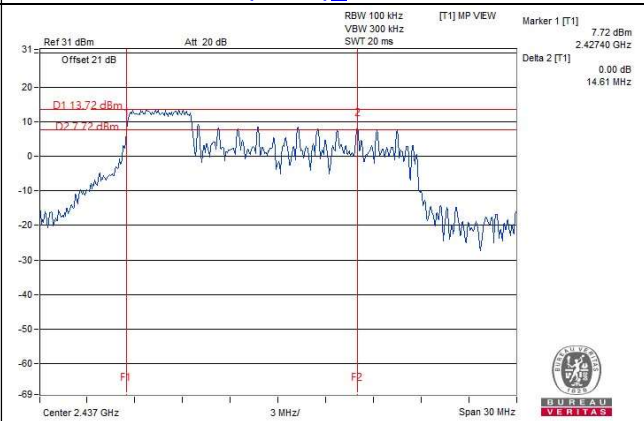


Spectrum Plot of Worst Value

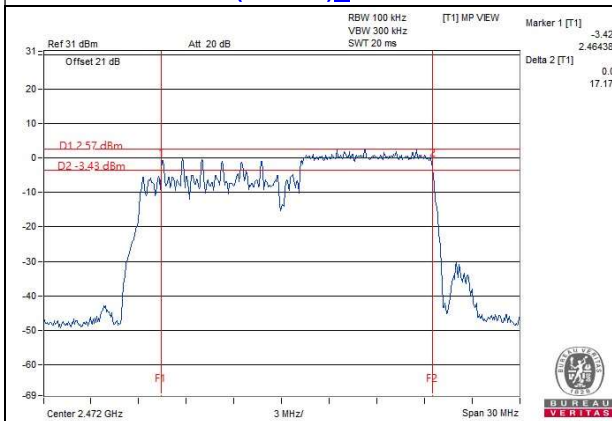
802.11ax (RU26)_Chain 0 / CH13



802.11ax (RU52)_Chain 1 / CH6



802.11ax (RU106)_Chain 1 / CH13



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,

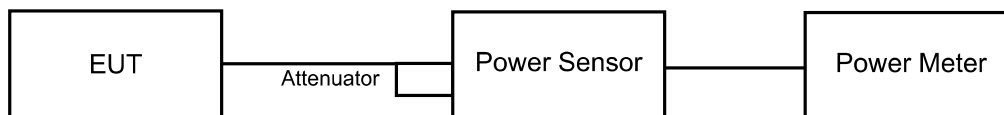
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

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

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

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

FOR PEAK POWER

802.11b

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.85	24.26	509.347	27.07	30	Pass
6	2437	23.69	24.24	499.344	26.98	30	Pass
11	2462	22.32	23.23	380.986	25.81	30	Pass
12	2467	21.07	21.91	283.177	24.52	30	Pass
13	2472	19.05	20.07	181.977	22.60	30	Pass

802.11g

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.76	24.20	500.711	27.00	30	Pass
6	2437	25.59	25.44	712.188	28.53	30	Pass
11	2462	22.99	23.65	430.807	26.34	30	Pass
12	2467	19.57	20.21	195.528	22.91	30	Pass
13	2472	17.19	18.20	118.429	20.73	30	Pass

VHT20

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.52	23.69	458.789	26.62	30	Pass
6	2437	25.42	25.36	691.895	28.40	30	Pass
11	2462	22.50	23.42	397.614	25.99	30	Pass
12	2467	19.04	19.86	176.996	22.48	30	Pass
13	2472	15.39	15.92	73.678	18.67	30	Pass

VHT40

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	20.46	20.88	233.635	23.69	30	Pass
6	2437	22.90	23.37	412.255	26.15	30	Pass
9	2452	20.04	20.82	221.707	23.46	30	Pass
10	2457	17.74	18.52	130.551	21.16	30	Pass
11	2462	15.80	16.68	84.578	19.27	30	Pass

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	23.81	23.93	487.609	26.88	30	Pass
6	2437	25.89	25.81	769.216	28.86	30	Pass
11	2462	22.80	23.69	424.43	26.28	30	Pass
12	2467	19.31	20.10	187.639	22.73	30	Pass
13	2472	16.12	16.70	87.7	19.43	30	Pass

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	20.73	21.12	247.724	23.94	30	Pass
6	2437	23.15	23.66	438.812	26.42	30	Pass
9	2452	20.27	21.06	234.058	23.69	30	Pass
10	2457	17.99	18.81	138.983	21.43	30	Pass
11	2462	16.08	16.89	89.416	19.51	30	Pass

802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	25.82	25.81	763.01	28.83	30	Pass
11	2462	25.76	25.51	732.335	28.65	30	Pass
12	2467	21.83	22.43	327.39	25.15	30	Pass
13	2472	19.92	20.27	204.589	23.11	30	Pass

802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
6	2437	25.85	25.76	761.296	28.82	30	Pass

802.11ax (RU106)

Chan.	Chan. Freq. (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	25.71	25.63	737.986	28.68	30	Pass
11	2462	25.49	25.56	713.747	28.54	30	Pass
12	2467	22.95	24.04	450.755	26.54	30	Pass
13	2472	20.61	20.70	232.57	23.67	30	Pass

FOR AVERAGE POWER

802.11b

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	21.62	22.04	305.167	24.85
6	2437	21.49	22.00	299.418	24.76
11	2462	19.94	20.82	219.409	23.41
12	2467	18.62	19.51	162.109	22.10
13	2472	16.78	17.73	106.936	20.29

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	18.01	18.24	129.922	21.14
6	2437	20.57	20.97	239.051	23.78
11	2462	17.93	18.81	138.12	21.40
12	2467	14.44	15.20	60.91	17.85
13	2472	11.61	12.30	31.47	14.98

VHT20

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.50	17.63	114.177	20.58
6	2437	20.06	20.43	211.799	23.26
11	2462	17.24	18.12	117.83	20.71
12	2467	13.91	14.62	53.577	17.29
13	2472	9.50	9.71	18.267	12.62

VHT40

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	14.82	15.21	63.528	18.03
6	2437	17.82	18.27	127.677	21.06
9	2452	14.75	15.49	65.254	18.15
10	2457	12.33	13.12	37.612	15.75
11	2462	9.88	10.75	21.612	13.35

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.72	17.83	119.83	20.79
6	2437	20.33	20.72	225.927	23.54
11	2462	17.49	18.34	124.339	20.95
12	2467	14.18	14.85	56.731	17.54
13	2472	9.95	10.46	21.003	13.22

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
3	2422	15.11	15.48	67.752	18.31
6	2437	18.08	18.50	135.063	21.31
9	2452	15.05	15.73	69.4	18.41
10	2457	12.54	13.40	39.825	16.00
11	2462	10.11	11.01	22.875	13.59

802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.16	17.46	107.718	20.32
11	2462	17.25	17.88	114.465	20.59
12	2467	14.47	15.13	60.573	17.82
13	2472	11.54	12.21	30.89	14.90

802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
6	2437	20.45	20.80	231.144	23.64

802.11ax (RU106)

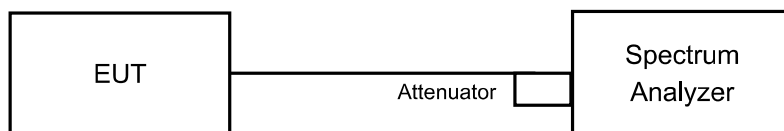
Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Average Power (mW)	Total Average Power (dBm)
		Chain 0	Chain 1		
1	2412	17.69	18.03	122.282	20.87
11	2462	17.67	18.47	128.786	21.10
12	2467	14.87	15.39	65.284	18.15
13	2472	11.85	12.68	33.846	15.30

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 analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

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

802.11b

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	-0.72	-0.16	2.58	7.81	Pass
6	2437	0.21	-0.89	2.70	7.81	Pass
11	2462	-2.20	-1.08	1.41	7.81	Pass
12	2467	-3.06	-2.55	0.21	7.81	Pass
13	2472	-3.41	-3.60	-0.49	7.81	Pass

Note: The directional gain = 3.18 dBi + 10log(2) = 6.19 dBi > 6dBi , so the power density limit shall be reduced to 8-(6.19-6) = 7.81 dBm.

802.11g

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	-5.99	-7.26	-3.57	7.81	Pass
6	2437	-3.67	-4.03	-0.84	7.81	Pass
11	2462	-6.78	-6.37	-3.56	7.81	Pass
12	2467	-9.35	-10.29	-6.78	7.81	Pass
13	2472	-13.18	-13.09	-10.12	7.81	Pass

Note: The directional gain = 3.18 dBi + 10log(2) = 6.19 dBi > 6dBi , so the power density limit shall be reduced to 8-(6.19-6) = 7.81 dBm.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	-8.33	-8.32	-5.32	7.81	Pass
6	2437	-4.97	-6.34	-2.59	7.81	Pass
11	2462	-8.62	-8.06	-5.32	7.81	Pass
12	2467	-12.34	-11.84	-9.07	7.81	Pass
13	2472	-15.33	-15.20	-12.25	7.81	Pass

Note: The directional gain = 3.18 dBi + 10log(2) = 6.19 dBi > 6dBi , so the power density limit shall be reduced to 8-(6.19-6) = 7.81 dBm.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
3	2422	-13.02	-13.68	-10.33	7.81	Pass
6	2437	-9.75	-9.88	-6.80	7.81	Pass
9	2452	-12.72	-12.45	-9.57	7.81	Pass
10	2457	-15.79	-14.47	-12.07	7.81	Pass
11	2462	-17.60	-18.18	-14.87	7.81	Pass

Note: The directional gain = 3.18 dBi + 10log(2) = 6.19 dBi > 6dBi , so the power density limit shall be reduced to 8-(6.19-6) = 7.81 dBm.

802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	1.69	1.19	4.46	7.81	Pass
11	2462	1.12	1.77	4.47	7.81	Pass
12	2467	-2.06	-1.36	1.31	7.81	Pass
13	2472	-4.51	-5.39	-1.92	7.81	Pass

Note: The directional gain = $3.18 \text{ dBi} + 10\log(2) = 6.19 \text{ dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.19-6) = 7.81 \text{ dBm}$.

802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
6	2437	0.84	0.28	3.58	7.81	Pass

Note: The directional gain = $3.18 \text{ dBi} + 10\log(2) = 6.19 \text{ dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.19-6) = 7.81 \text{ dBm}$.

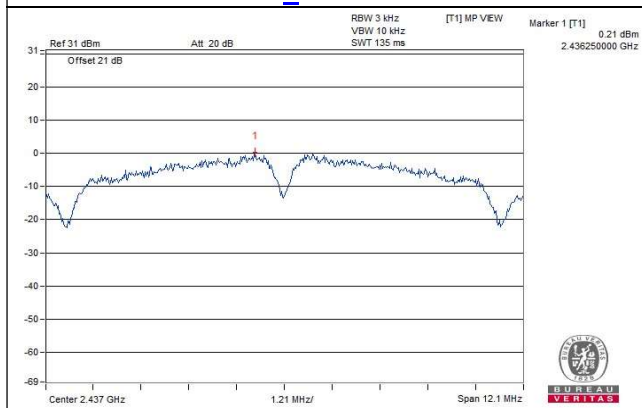
802.11ax (RU106)

Chan.	Chan. Freq. (MHz)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	PSD Limit (dBm/3kHz)	Pass / Fail
		Chain 0	Chain 1			
1	2412	-4.05	-4.86	-1.43	7.81	Pass
11	2462	-5.34	-5.64	-2.48	7.81	Pass
12	2467	-7.98	-8.23	-5.09	7.81	Pass
13	2472	-10.66	-11.12	-7.87	7.81	Pass

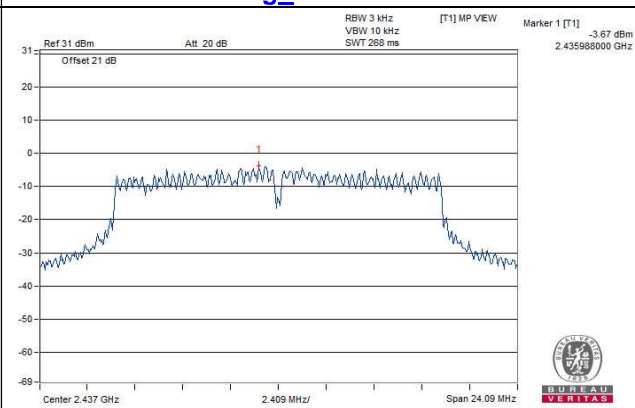
Note: The directional gain = $3.18 \text{ dBi} + 10\log(2) = 6.19 \text{ dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $8-(6.19-6) = 7.81 \text{ dBm}$.

Spectrum Plot of Worst Value

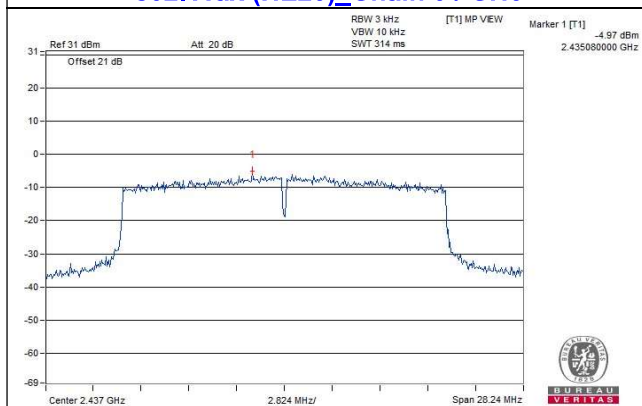
802.11b_Chain 0 / CH6



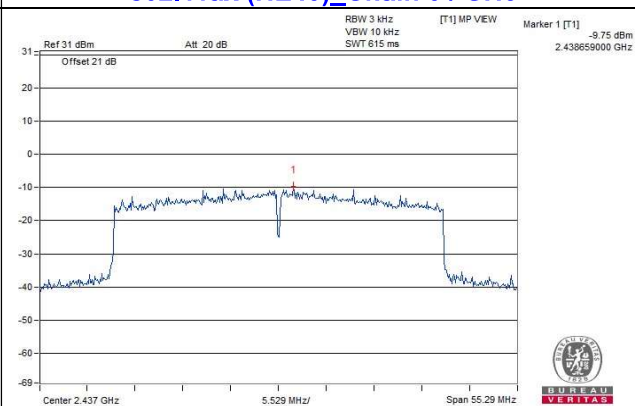
802.11g_Chain 0 / CH6



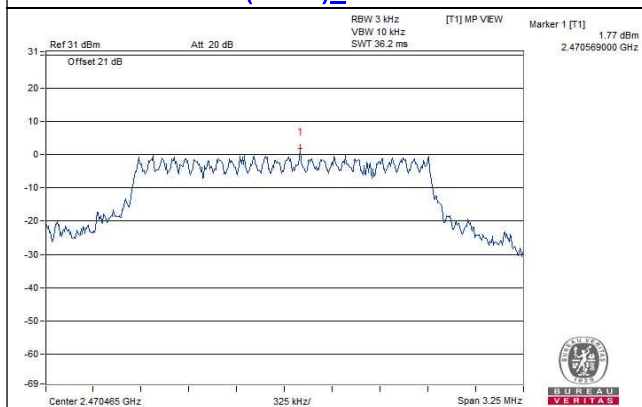
802.11ax (HE20)_Chain 0 / CH6



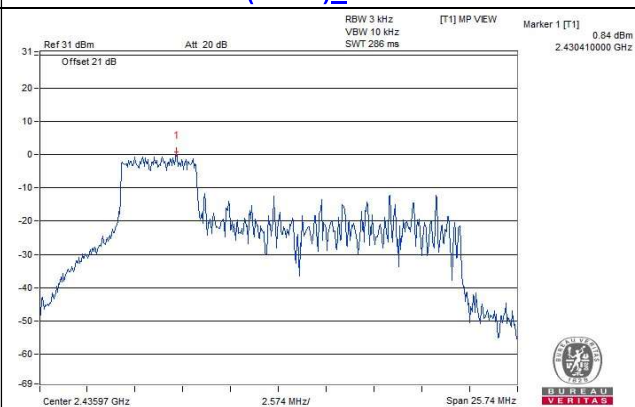
802.11ax (HE40)_Chain 0 / CH6



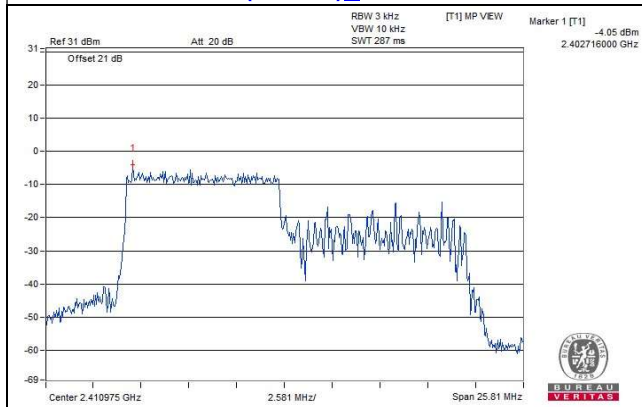
802.11ax (RU26)_Chain 1 / CH11



802.11ax (RU52)_Chain 0 / CH6



802.11ax (RU106)_Chain 0 / CH1

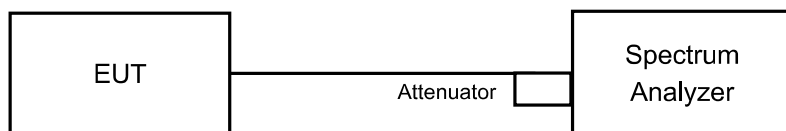


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 20dB 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

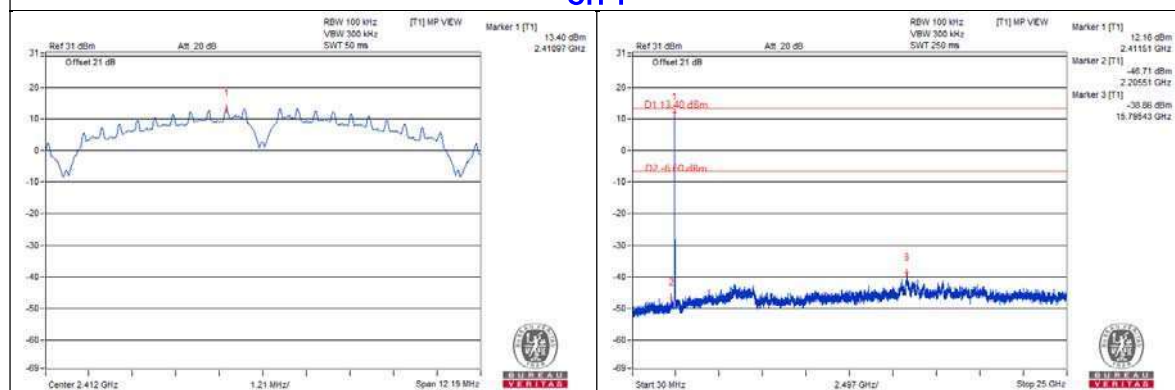
Same as Item 4.3.6

4.6.7 Test Results

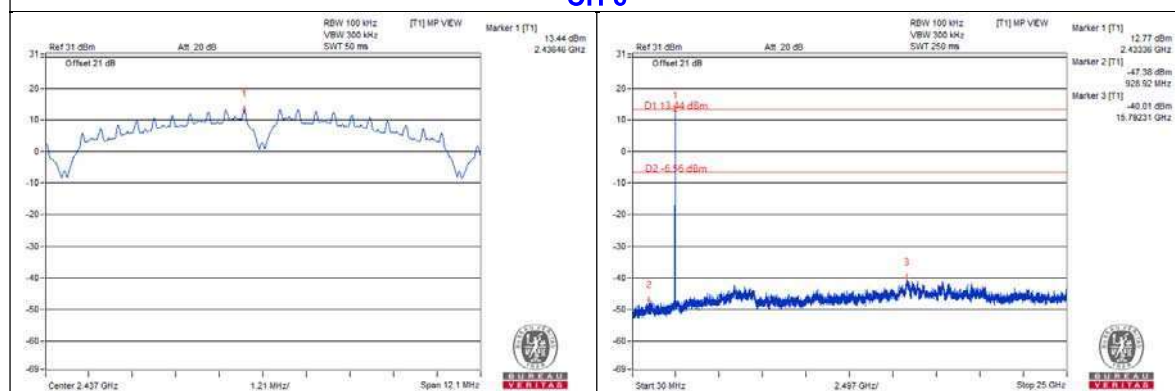
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

802.11b
Chain 0

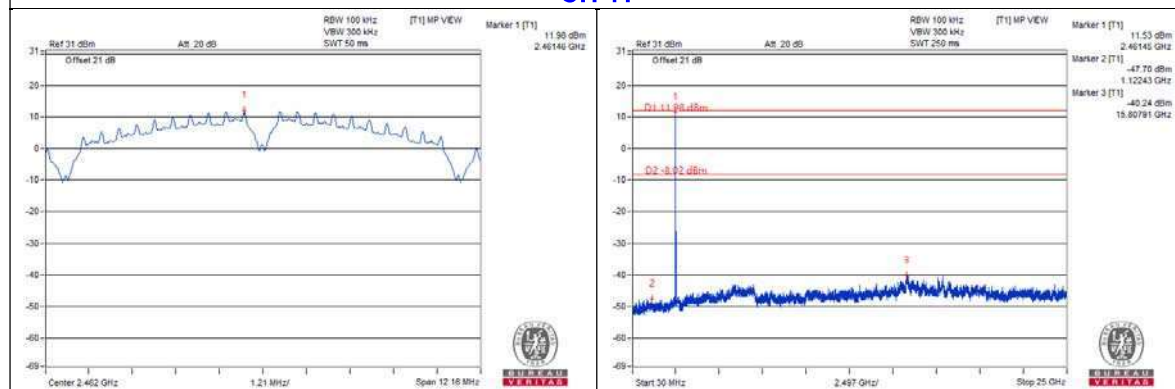
CH 1



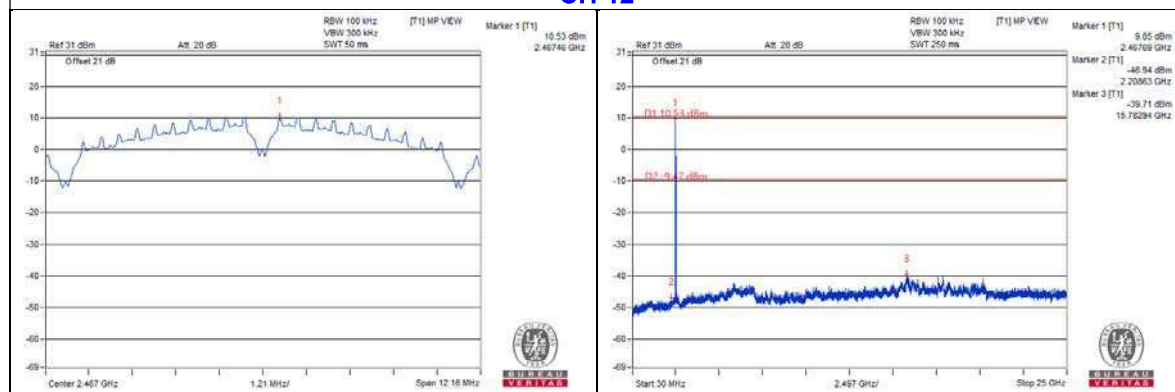
CH 6



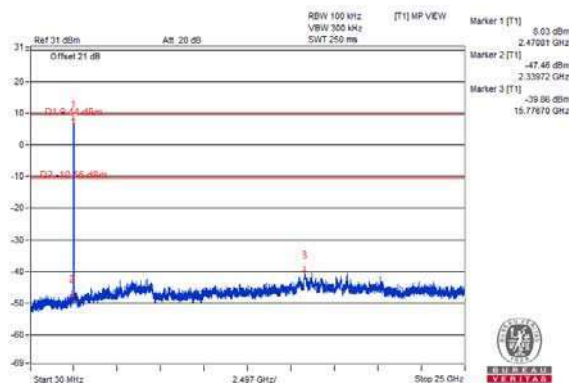
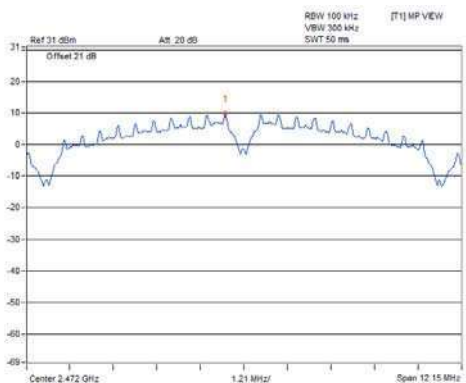
CH 11



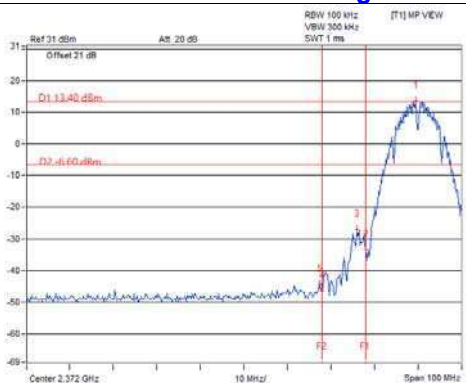
CH 12



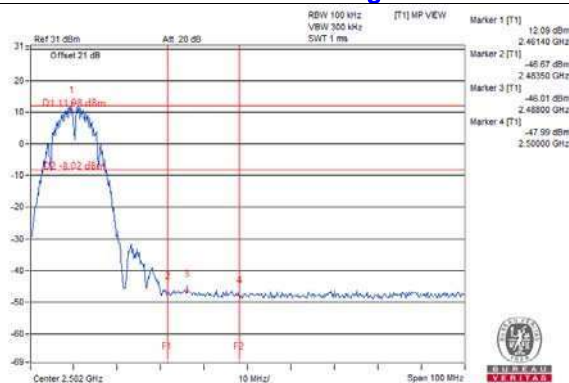
CH 13



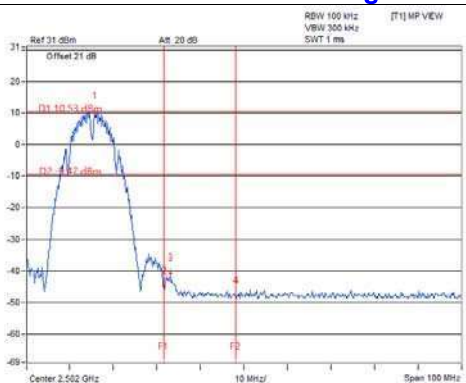
CH 1 Band edge



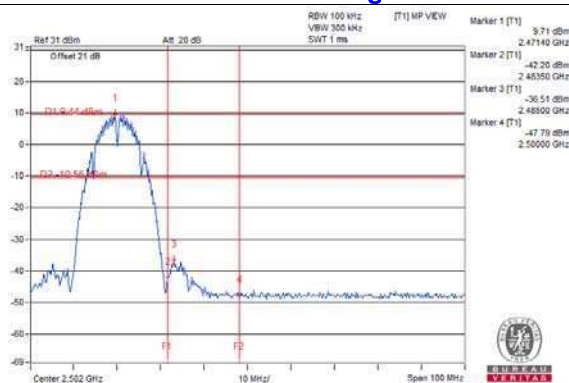
CH 11 Band edge



CH 12 Band edge

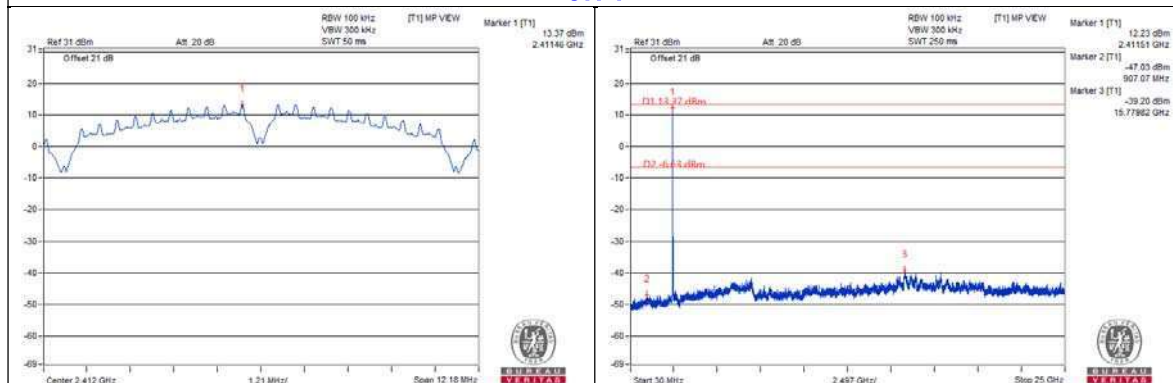


CH 13 Band edge

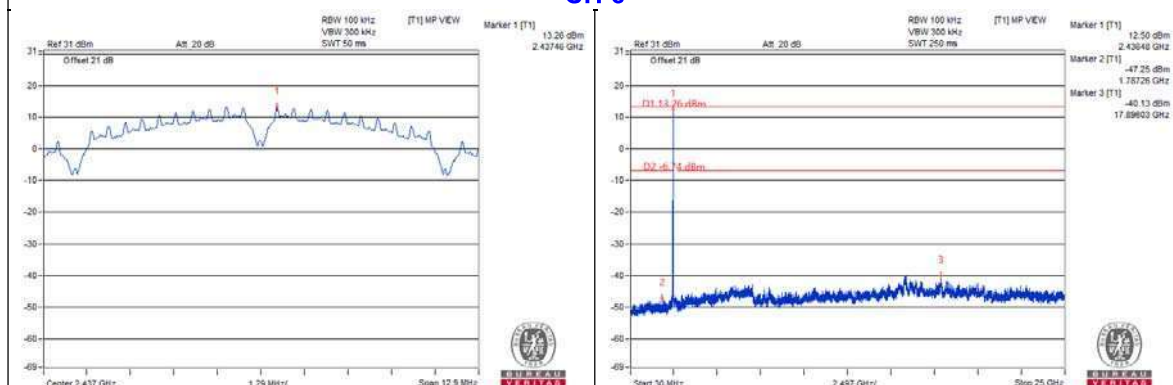


Chain 1

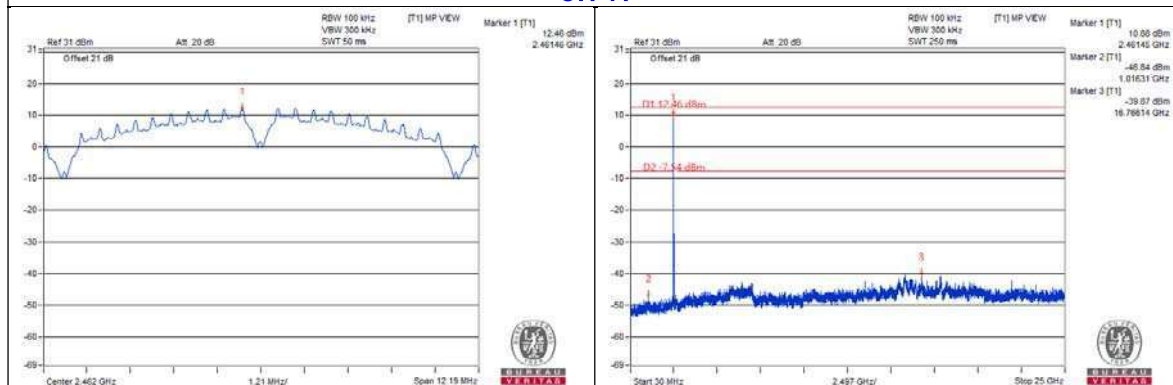
CH 1



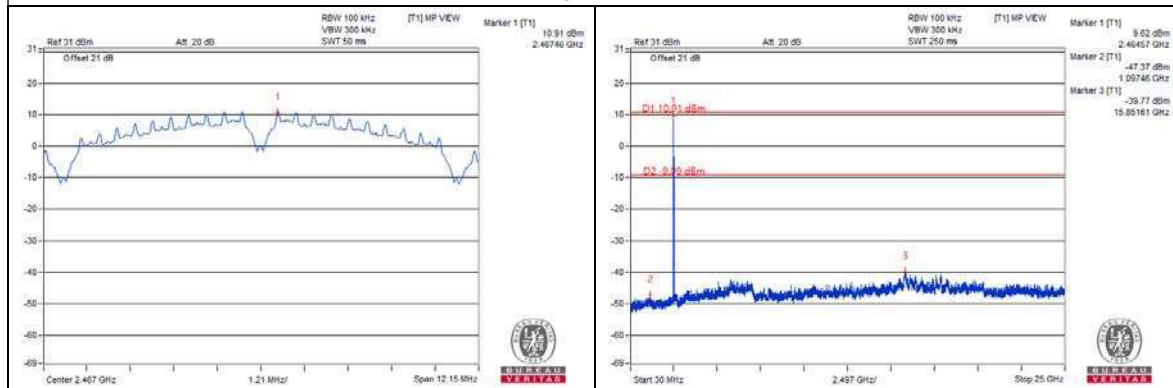
CH 6



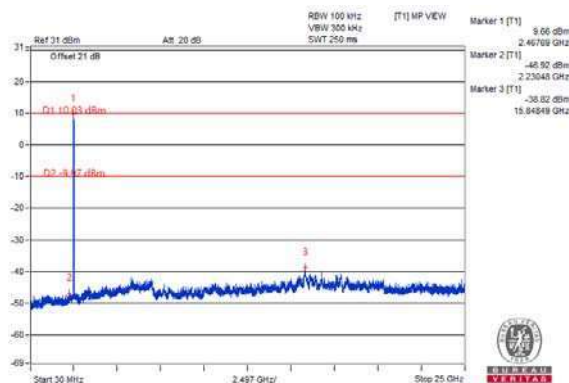
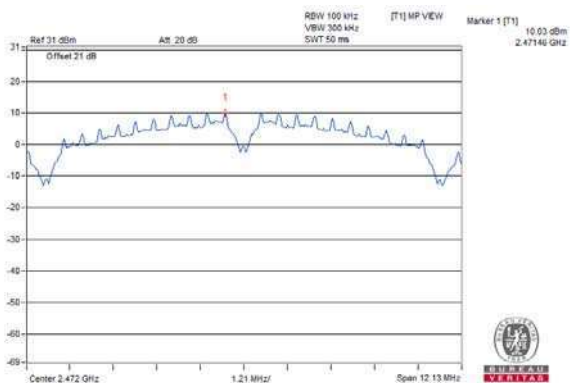
CH 11



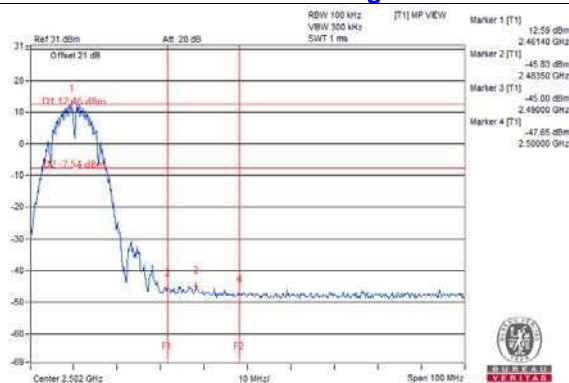
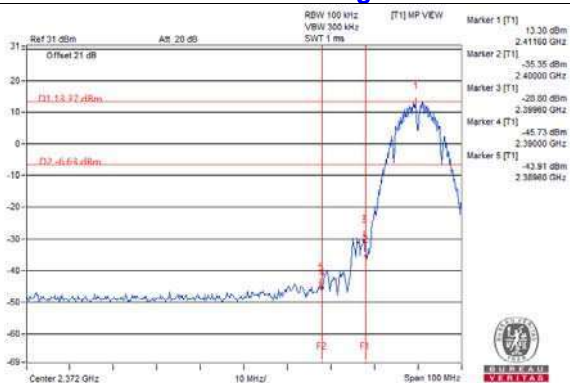
CH 12



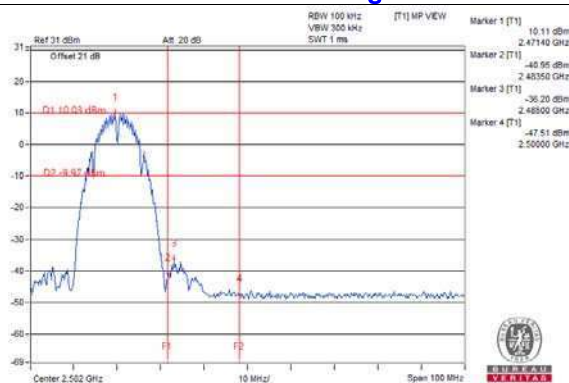
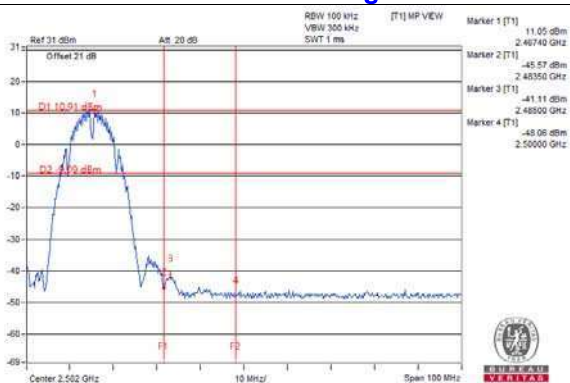
CH 13



CH 1 Band edge



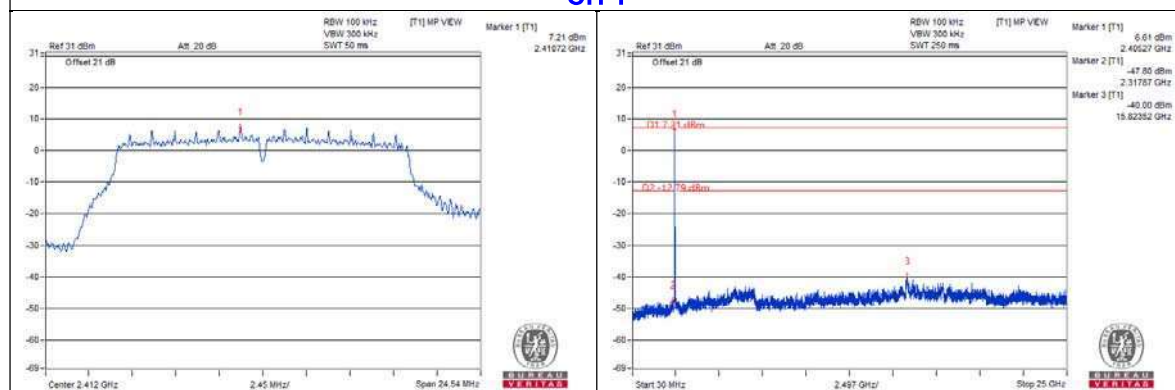
CH 12 Band edge



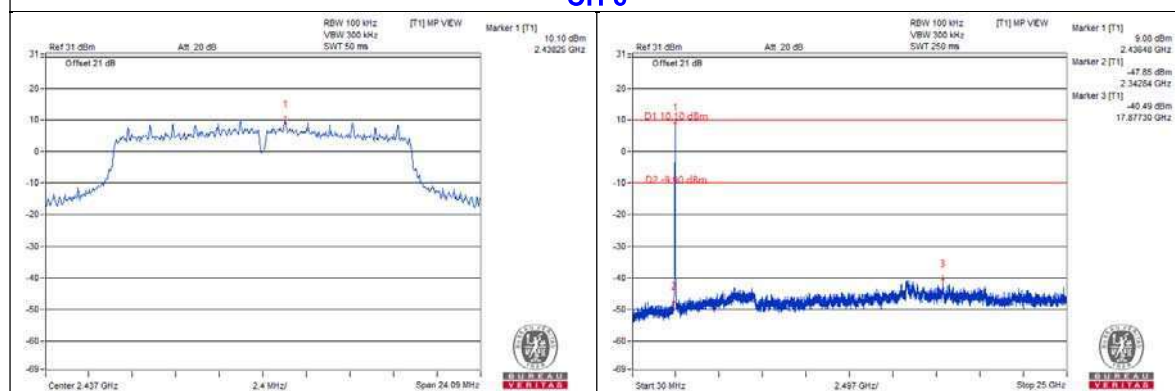
CH 13 Band edge

802.11g
Chain 0

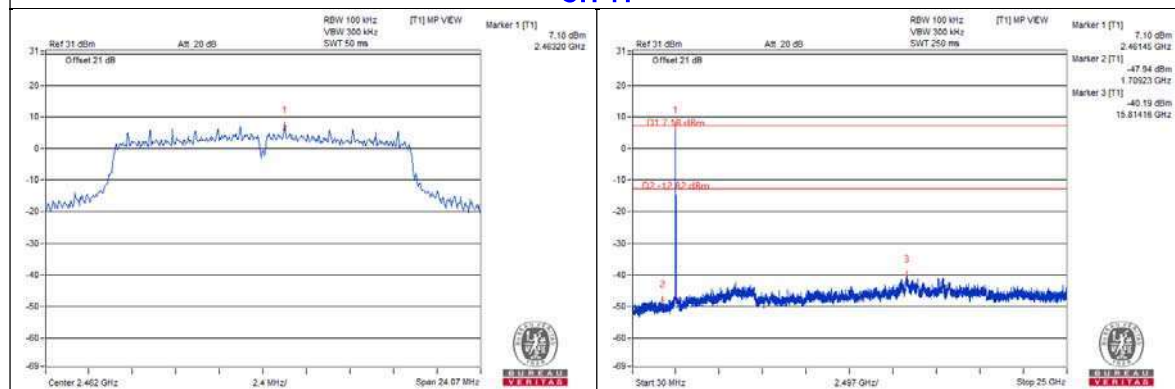
CH 1



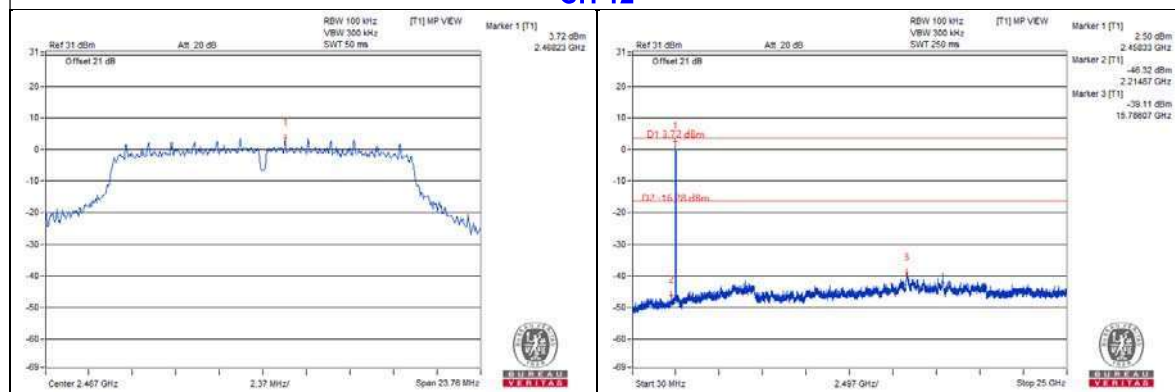
CH 6



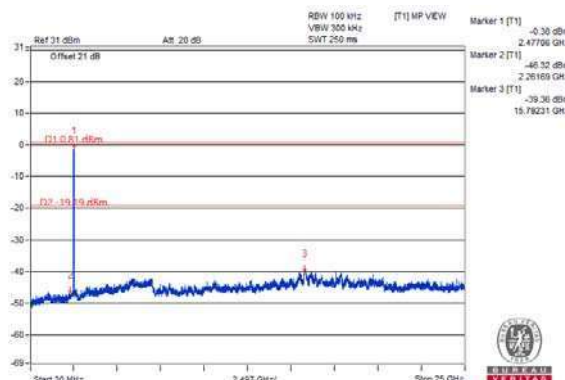
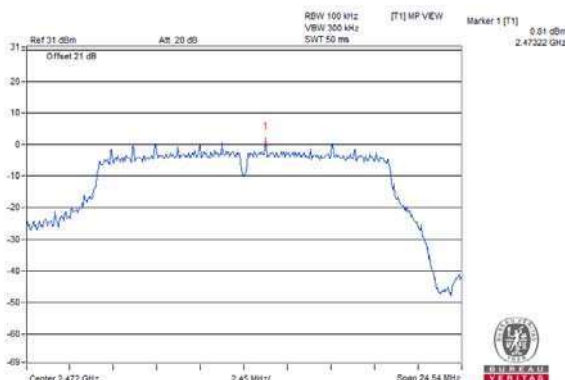
CH 11



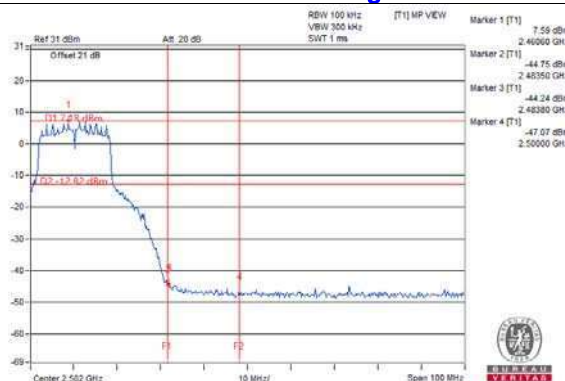
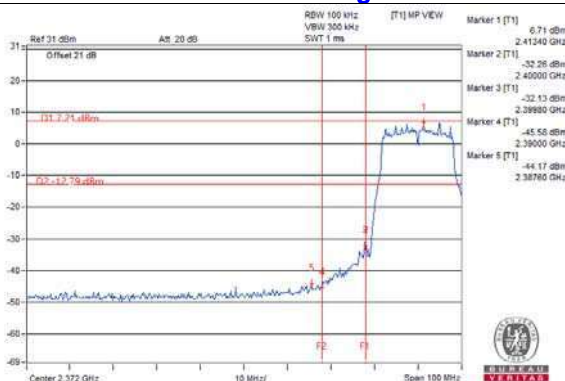
CH 12



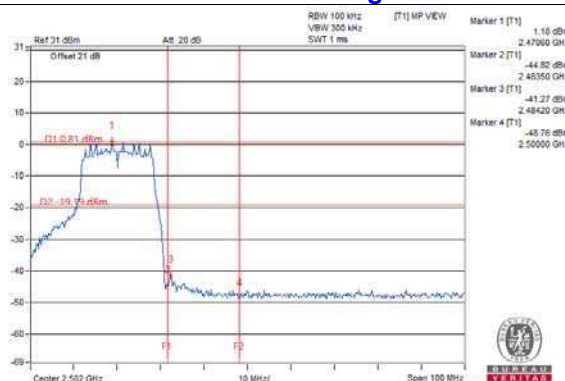
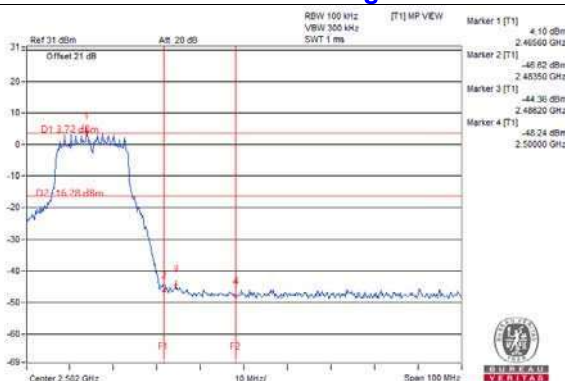
CH 13



CH 1 Band edge



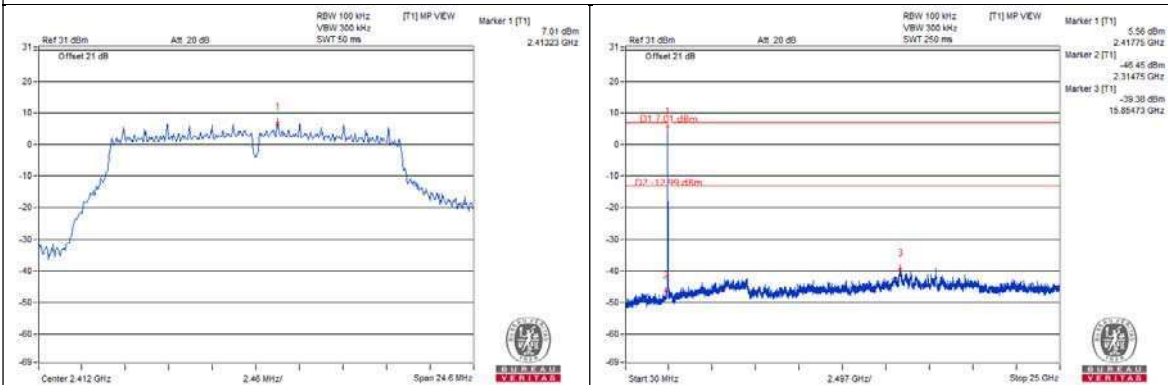
CH 12 Band edge



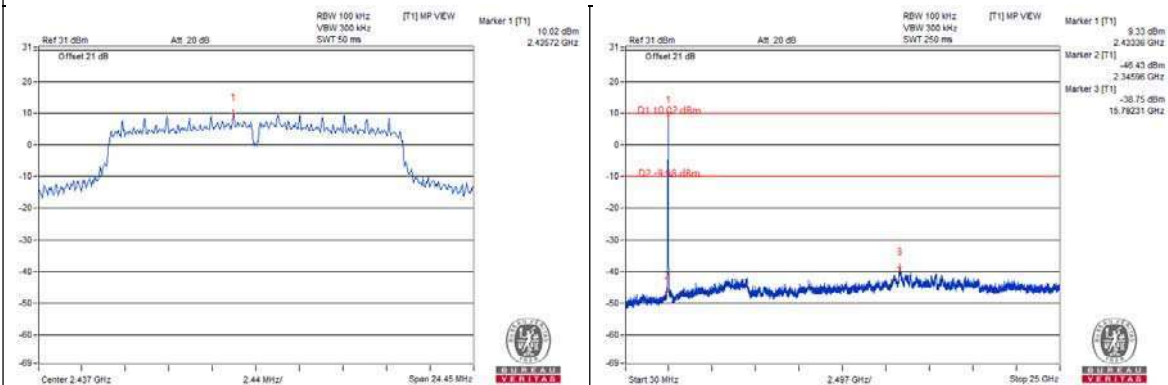
CH 13 Band edge

Chain 1

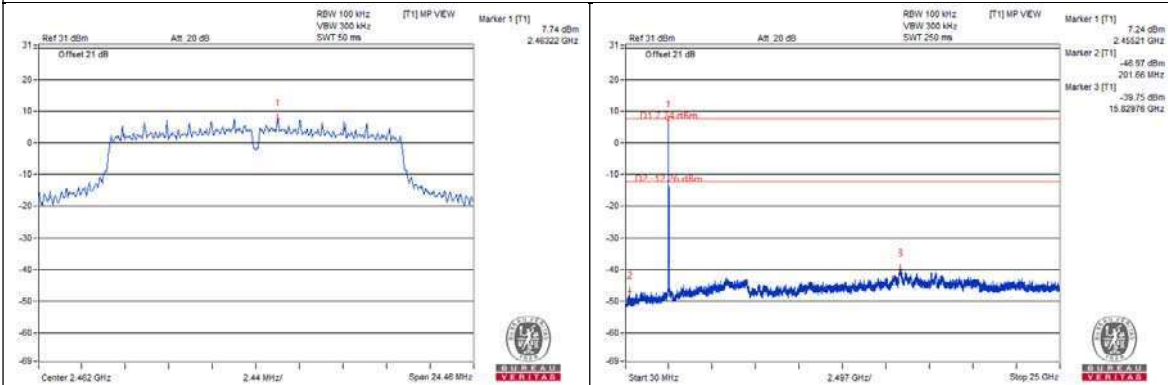
CH 1



CH 6



CH 11



CH 12

