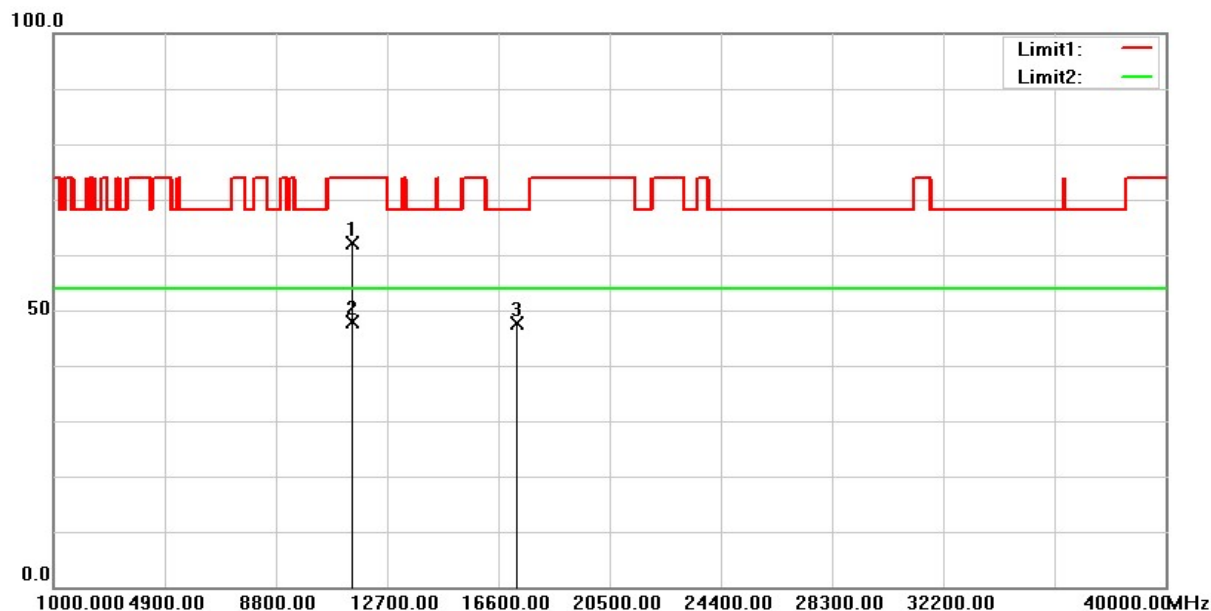


Test Mode :	Mode 2 : Transmit(802.11ac VHT20)	Test Date :	2020/11/18
Test Channel :	CH149(5745MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

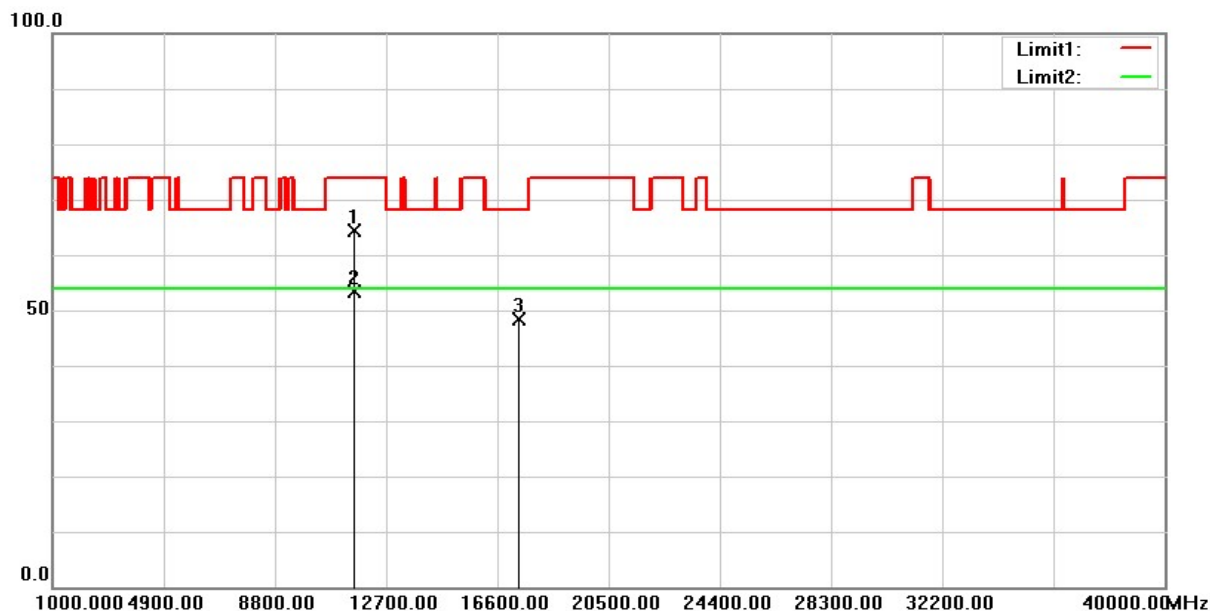


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11484.000	70.94	-8.91	62.03	74.00	-11.97	peak
2	11490.000	56.86	-8.89	47.97	54.00	-6.03	AVG
3	17235.000	49.46	-1.95	47.51	68.20	-20.69	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 2 : Transmit(802.11ac VHT20)	Test Date :	2020/11/18
Test Channel :	CH157(5785MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

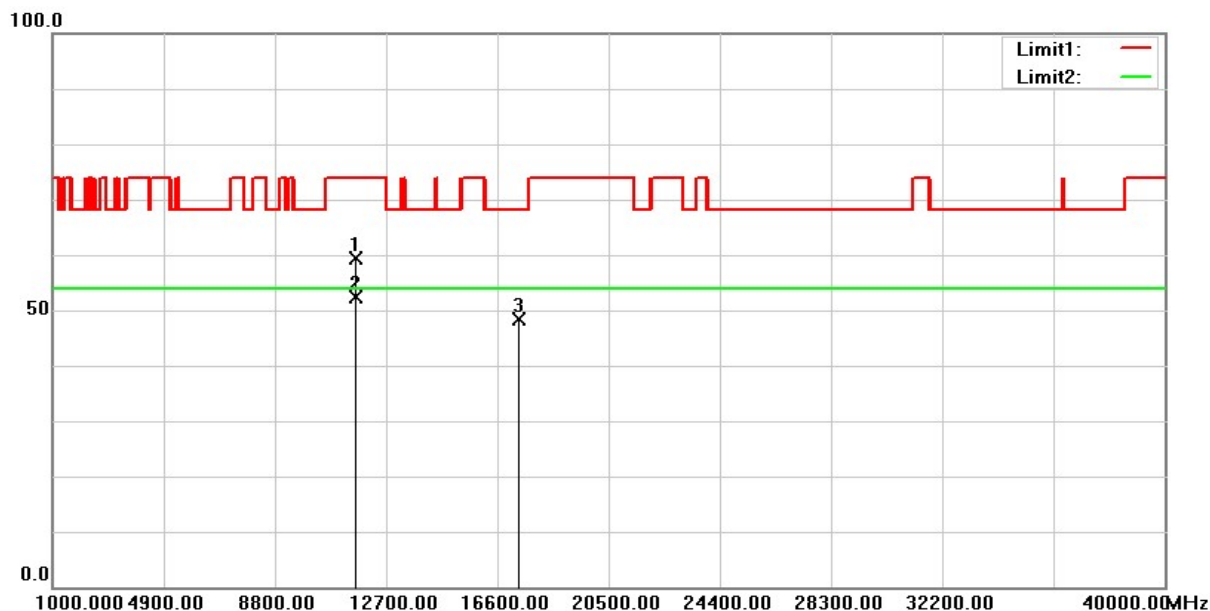


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	73.33	-8.97	64.36	74.00	-9.64	peak
2	11570.000	62.44	-8.97	53.47	54.00	-0.53	AVG
3	17355.000	49.55	-1.17	48.38	68.20	-19.82	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 2 : Transmit(802.11ac VHT20)	Test Date :	2020/11/18
Test Channel :	CH157(5785MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

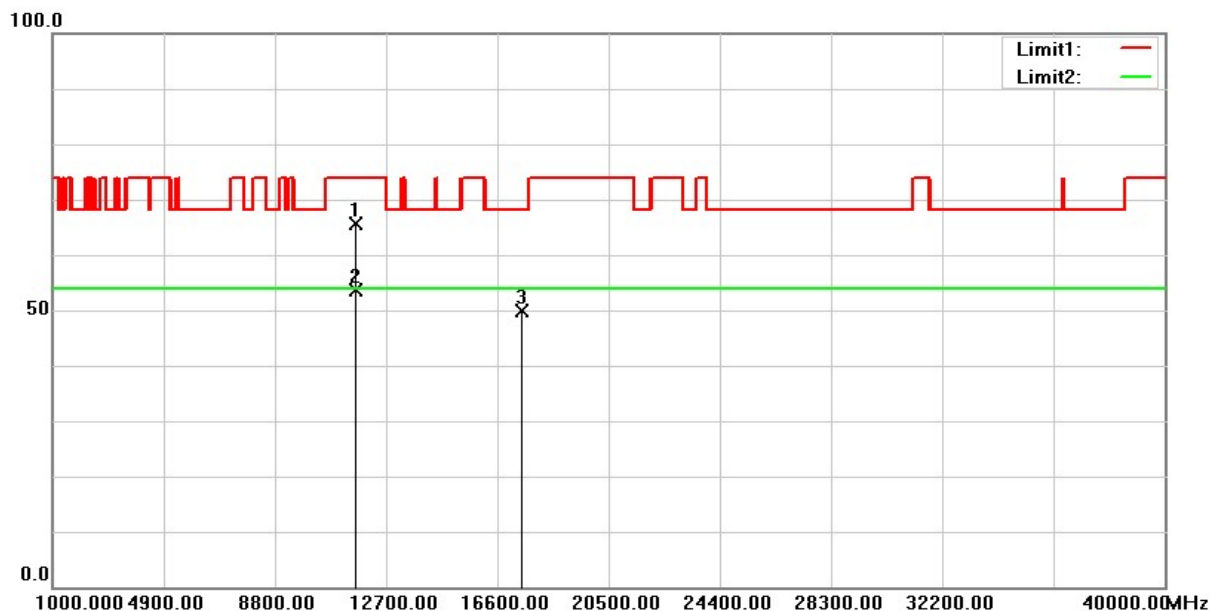


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	68.45	-8.97	59.48	74.00	-14.52	peak
2	11570.000	61.36	-8.97	52.39	54.00	-1.61	AVG
3	17355.000	49.53	-1.17	48.36	68.20	-19.84	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 2 : Transmit(802.11ac VHT20)	Test Date :	2020/11/18
Test Channel :	CH165(5825MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

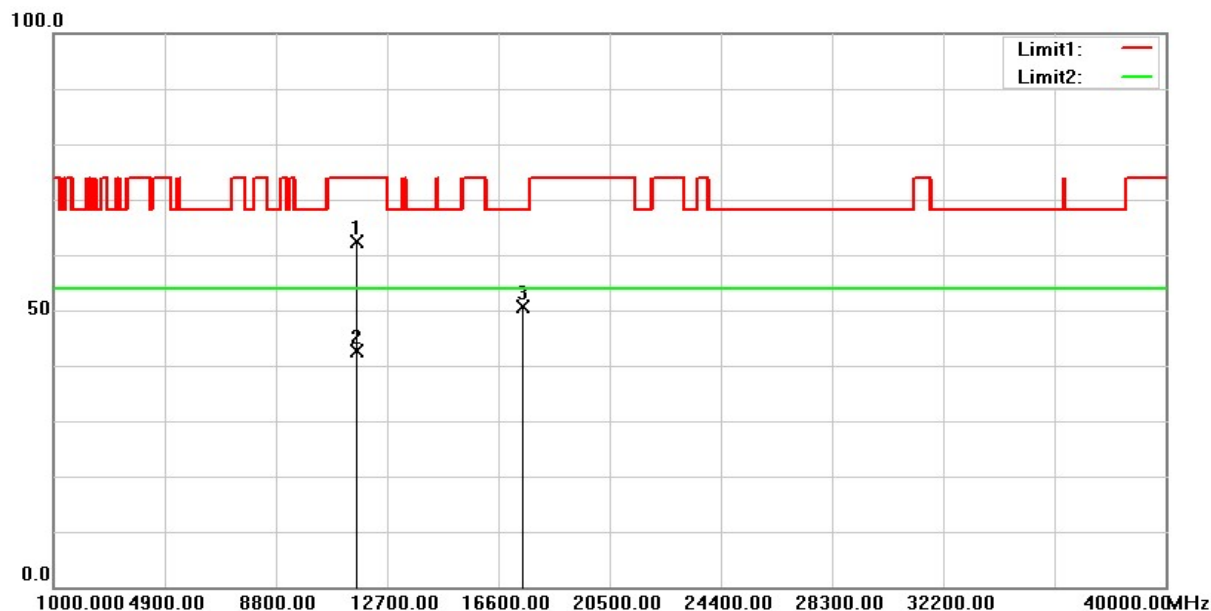


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	74.09	-8.58	65.51	74.00	-8.49	peak
2	11650.000	62.09	-8.58	53.51	54.00	-0.49	AVG
3	17475.000	50.06	-0.19	49.87	68.20	-18.33	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 2 : Transmit(802.11ac VHT20)	Test Date :	2020/11/18
Test Channel :	CH165(5825MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

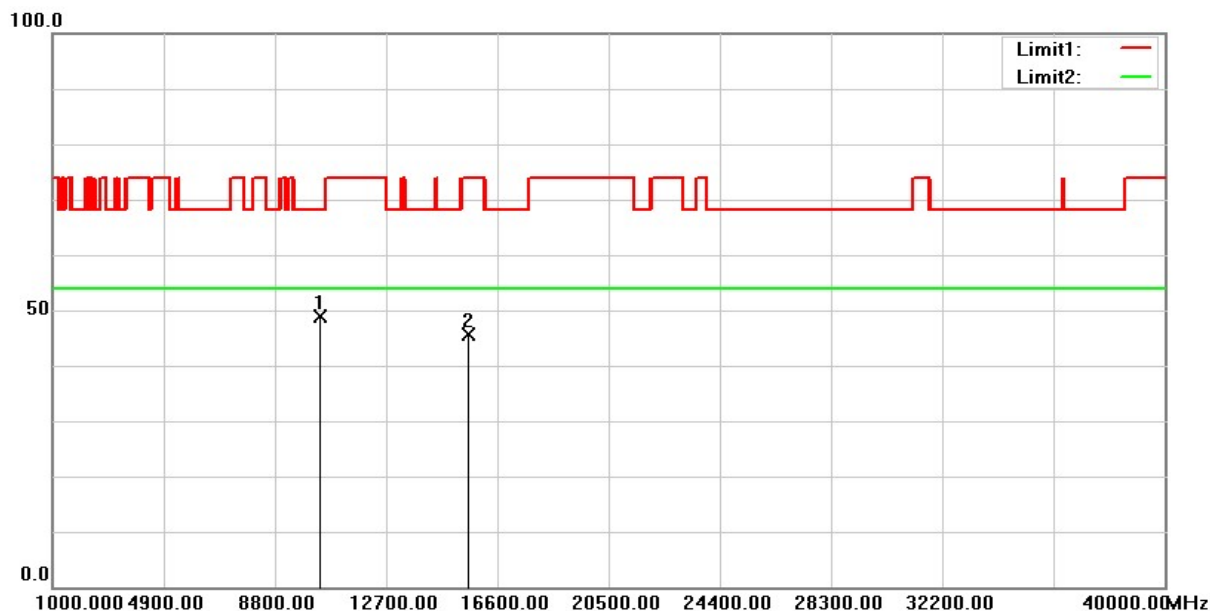


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	70.89	-8.58	62.31	74.00	-11.69	peak
2	11650.000	51.26	-8.58	42.68	54.00	-11.32	AVG
3	17475.000	50.74	-0.19	50.55	68.20	-17.65	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 : Transmit(802.11ac VHT40)	Test Date :	2020/11/18
Test Channel :	CH38(5190MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

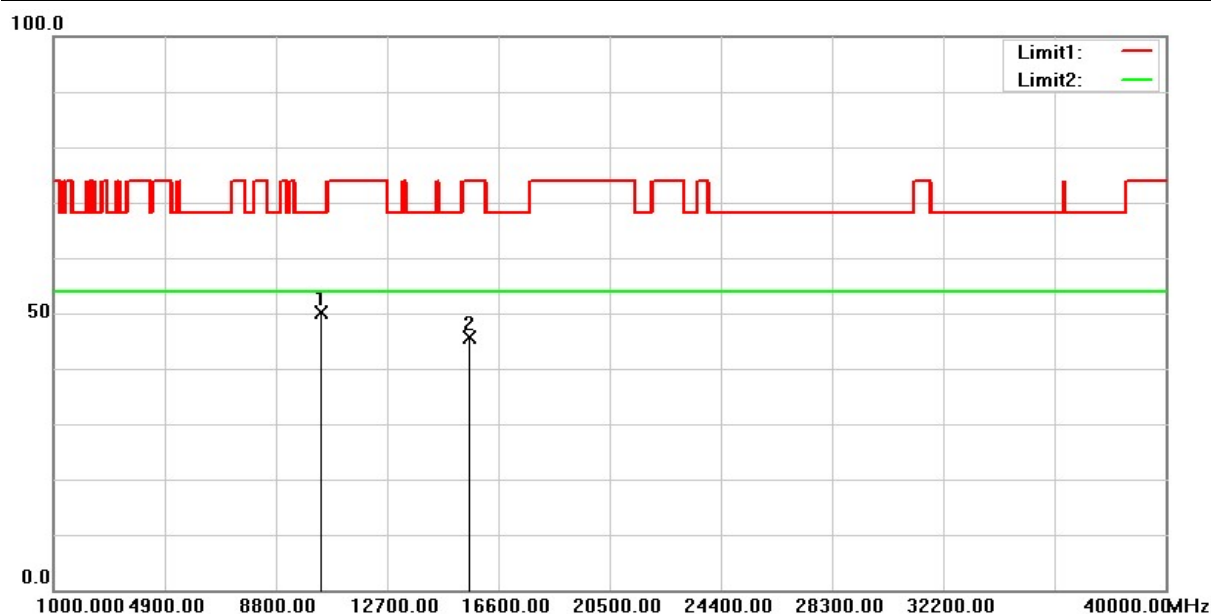


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	57.72	-8.76	48.96	68.20	-19.24	peak
2	15570.000	52.96	-7.43	45.53	74.00	-28.47	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 : Transmit(802.11ac VHT40)	Test Date :	2020/11/18
Test Channel :	CH38(5190MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

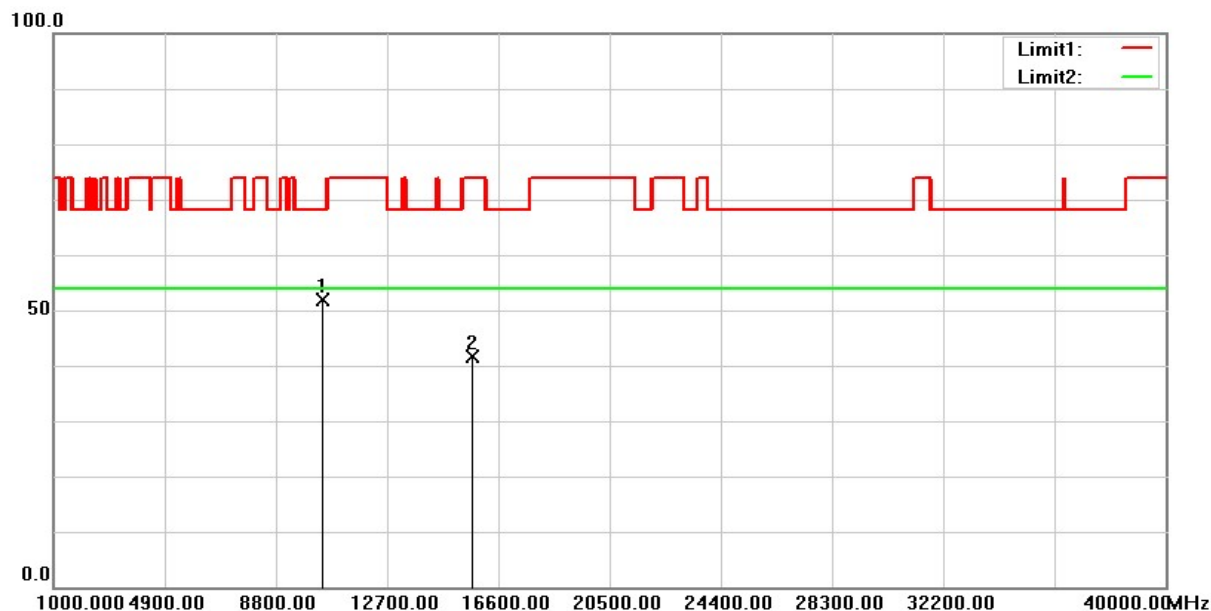


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	58.86	-8.76	50.10	68.20	-18.10	peak
2	15570.000	52.96	-7.43	45.53	74.00	-28.47	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 : Transmit(802.11ac VHT40)	Test Date :	2020/11/18
Test Channel :	CH46(5230MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

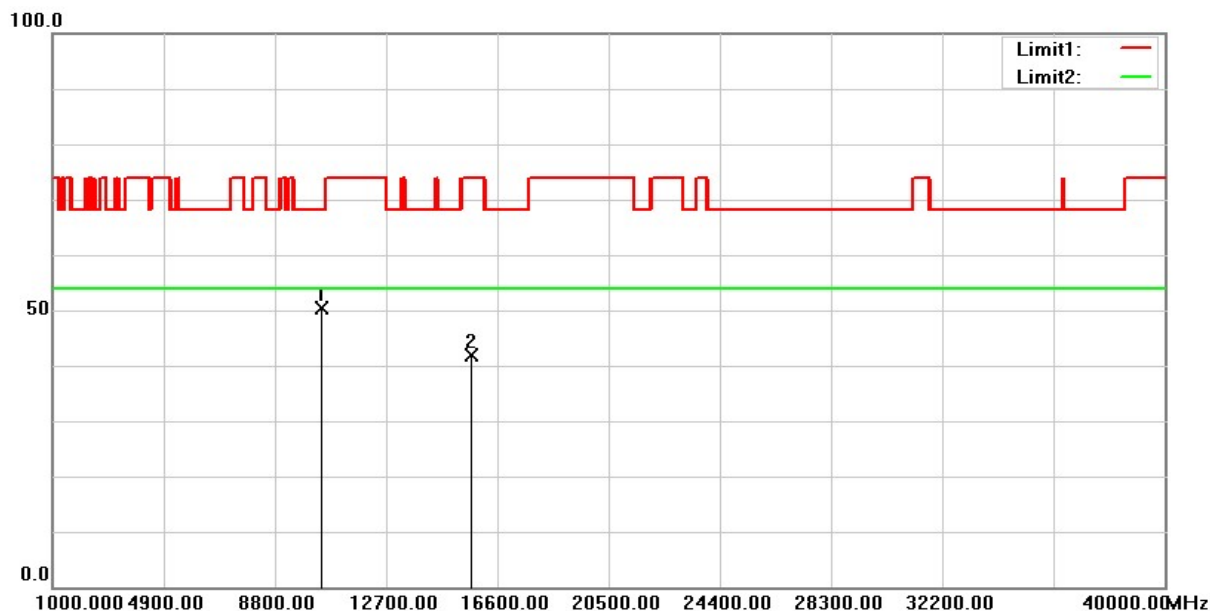


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	60.75	-8.77	51.98	68.20	-16.22	peak
2	15690.000	49.18	-7.44	41.74	74.00	-32.26	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 : Transmit(802.11ac VHT40)	Test Date :	2020/11/18
Test Channel :	CH46(5230MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

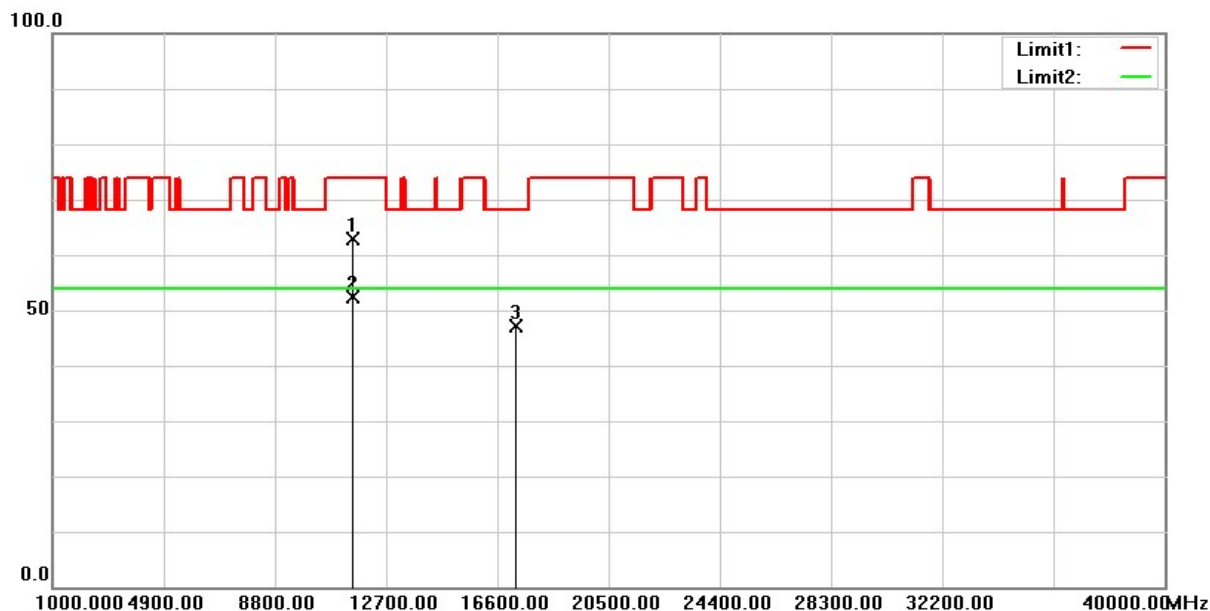


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	59.08	-8.77	50.31	68.20	-17.89	peak
2	15690.000	49.27	-7.44	41.83	74.00	-32.17	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 : Transmit(802.11ac VHT40)	Test Date :	2020/11/18
Test Channel :	CH151(5755MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

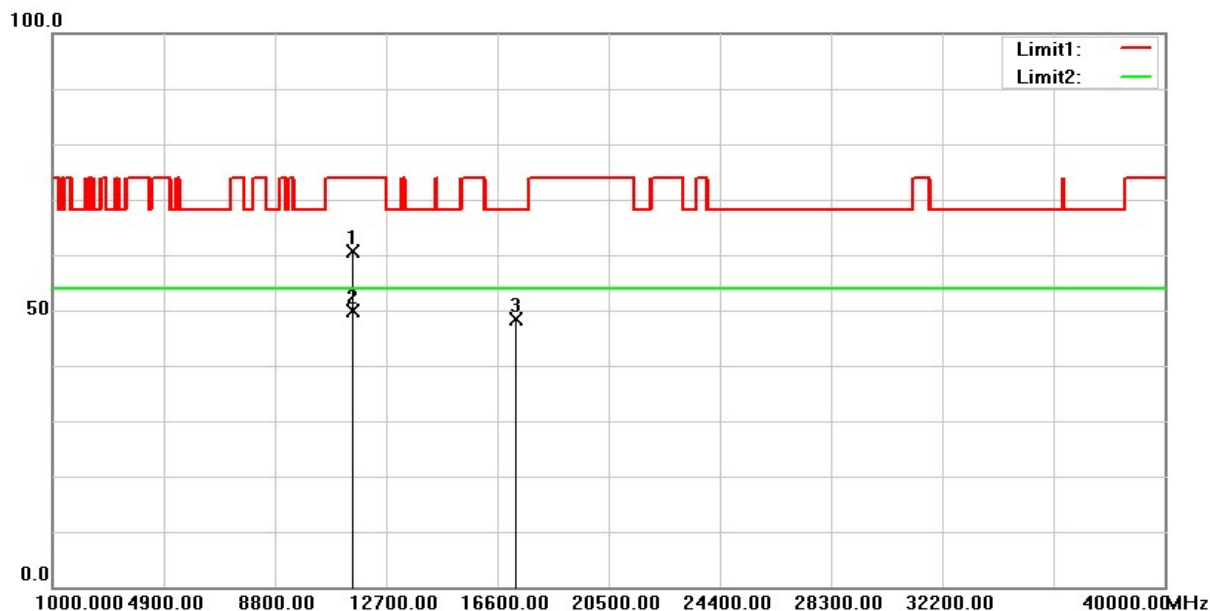


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	71.07	-8.15	62.92	74.00	-11.08	peak
2	11510.000	60.60	-8.15	52.45	54.00	-1.55	AVG
3	17265.000	48.82	-1.80	47.02	68.20	-21.18	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 : Transmit(802.11ac VHT40)	Test Date :	2020/11/18
Test Channel :	CH151(5755MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

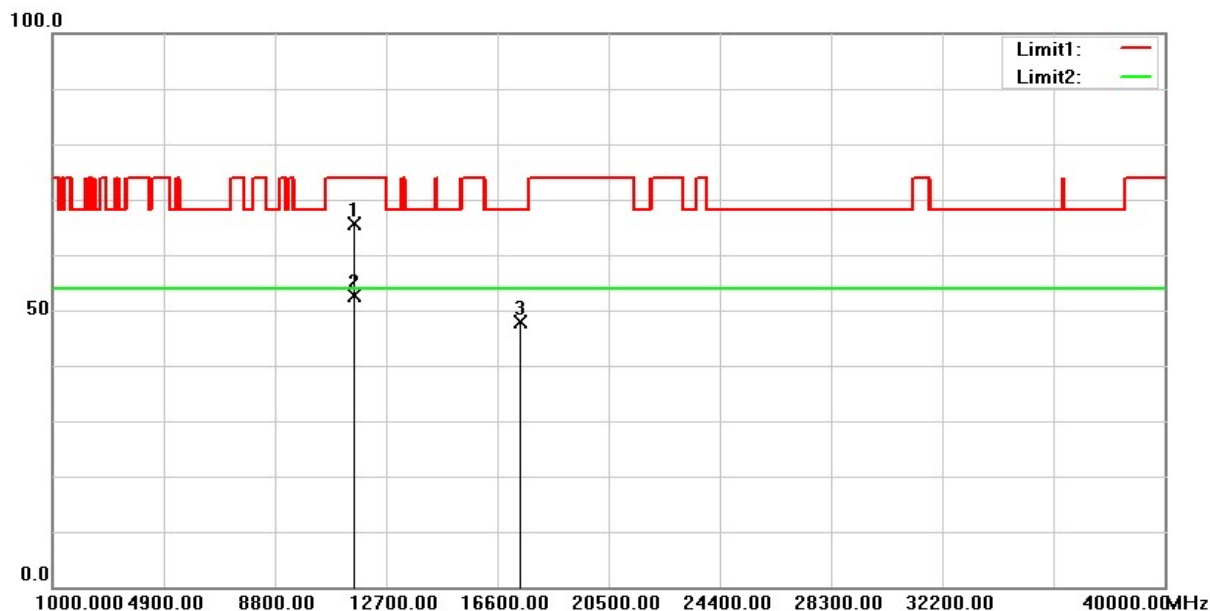


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	68.77	-8.15	60.62	74.00	-13.38	peak
2	11510.000	57.99	-8.15	49.84	54.00	-4.16	AVG
3	17265.000	50.07	-1.80	48.27	68.20	-19.93	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 : Transmit(802.11ac VHT40)	Test Date :	2020/11/18
Test Channel :	CH159(5795MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

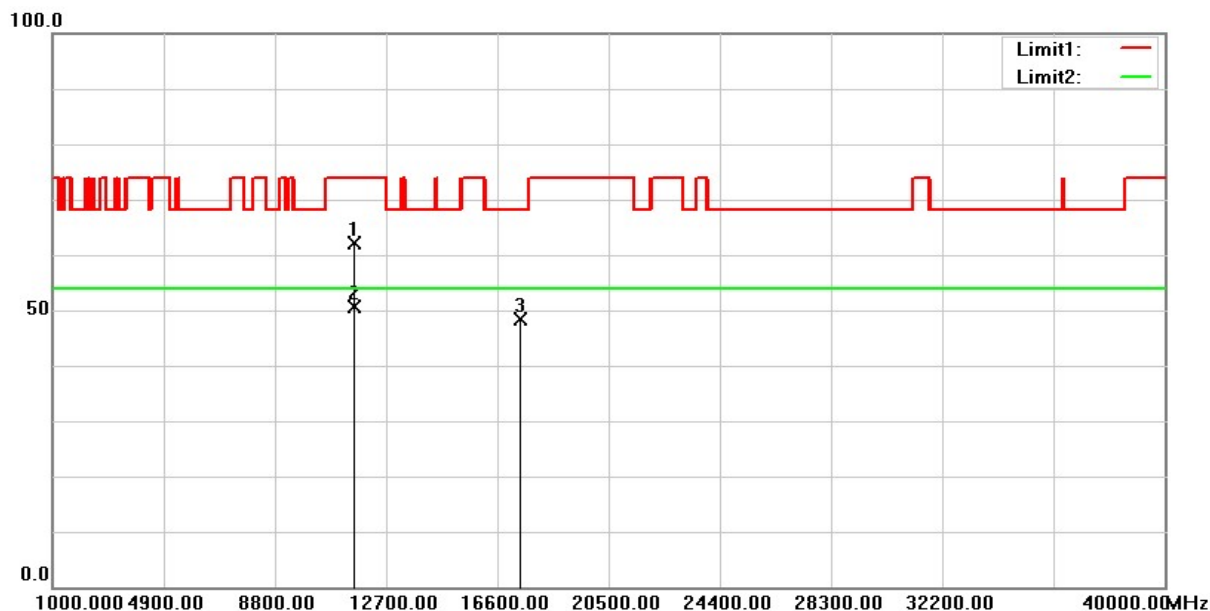


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	73.94	-8.25	65.69	74.00	-8.31	peak
2	11590.000	60.91	-8.25	52.66	54.00	-1.34	AVG
3	17385.000	48.83	-0.92	47.91	68.20	-20.29	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 3 : Transmit(802.11ac VHT40)	Test Date :	2020/11/18
Test Channel :	CH159(5795MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

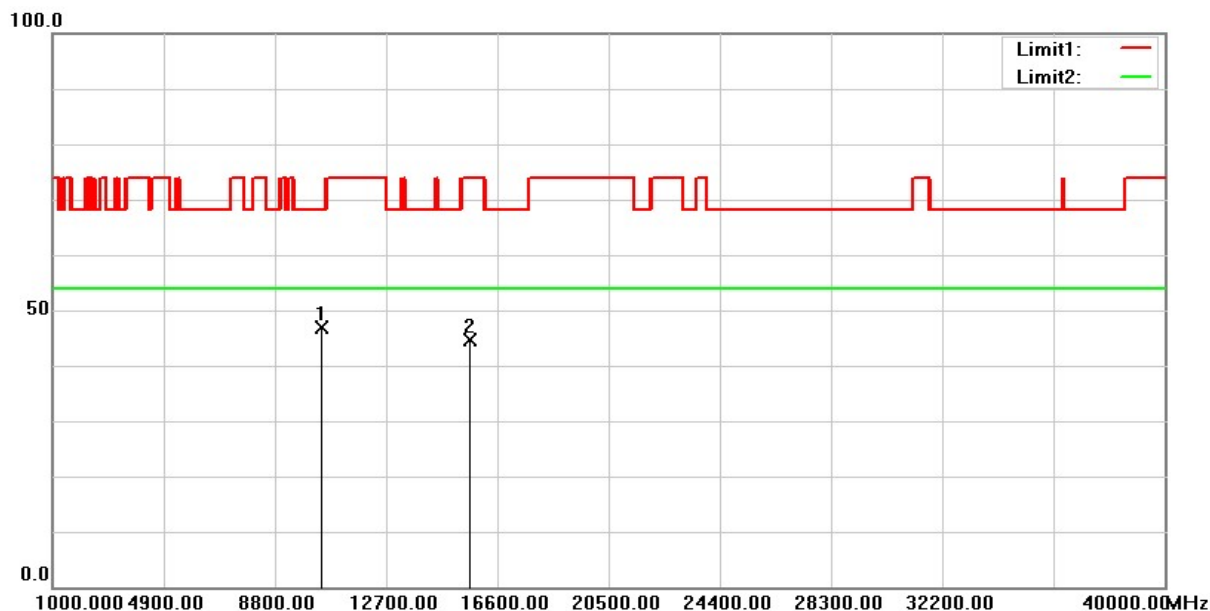


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	70.41	-8.25	62.16	74.00	-11.84	peak
2	11590.000	58.96	-8.25	50.71	54.00	-3.29	AVG
3	17385.000	49.21	-0.92	48.29	68.20	-19.91	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 4 : Transmit(802.11ac VHT80)	Test Date :	2020/11/18
Test Channel :	CH42(5210MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

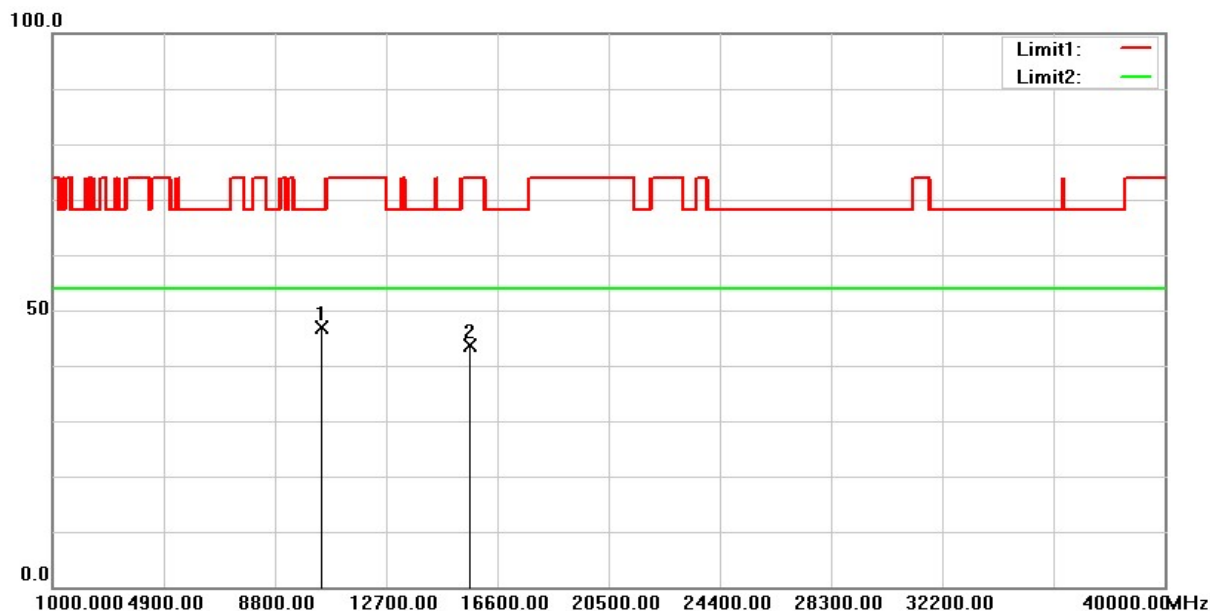


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	55.63	-8.75	46.88	68.20	-21.32	peak
2	15630.000	52.13	-7.50	44.63	74.00	-29.37	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 4 : Transmit(802.11ac VHT80)	Test Date :	2020/11/18
Test Channel :	CH42(5210MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

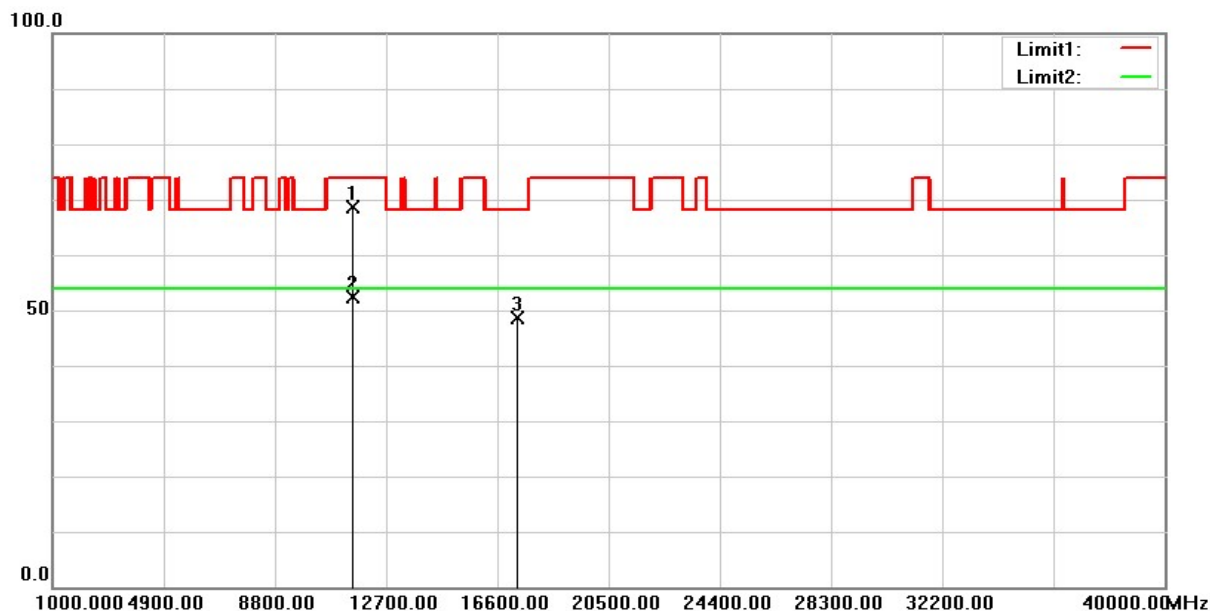


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	55.74	-8.75	46.99	68.20	-21.21	peak
2	15630.000	51.17	-7.50	43.67	74.00	-30.33	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 4 : Transmit(802.11ac VHT80)	Test Date :	2020/11/18
Test Channel :	CH155(5775MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

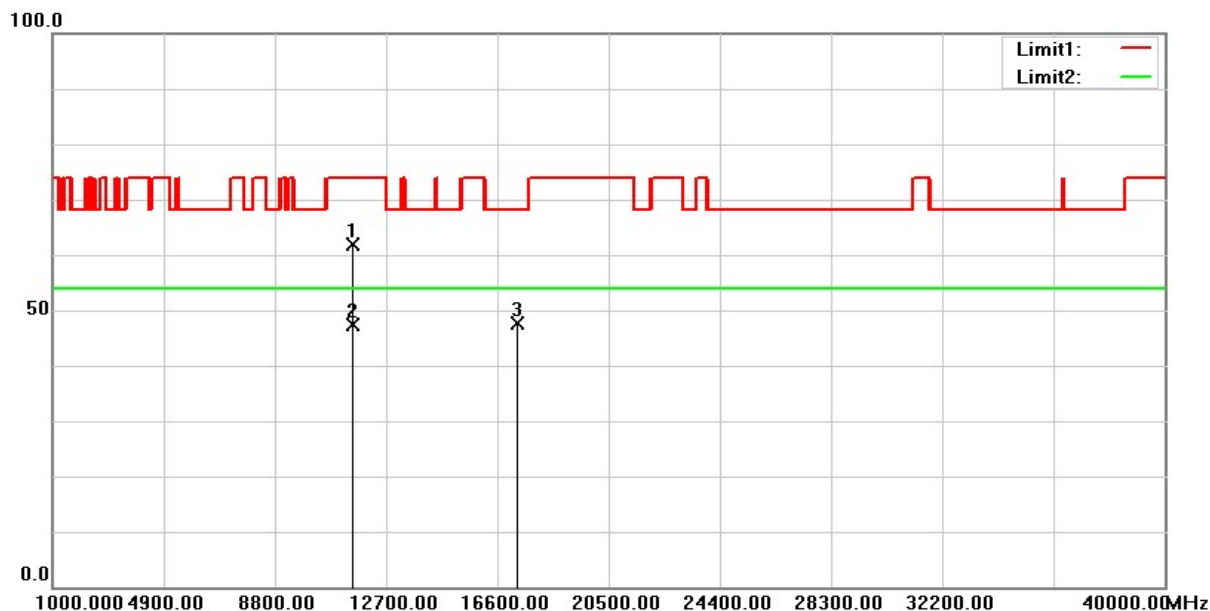


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	76.75	-8.20	68.55	74.00	-5.45	peak
2	11550.000	60.67	-8.20	52.47	54.00	-1.53	AVG
3	17325.000	50.07	-1.42	48.65	68.20	-19.55	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 4 : Transmit(802.11ac VHT80)	Test Date :	2020/11/18
Test Channel :	CH155(5775MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

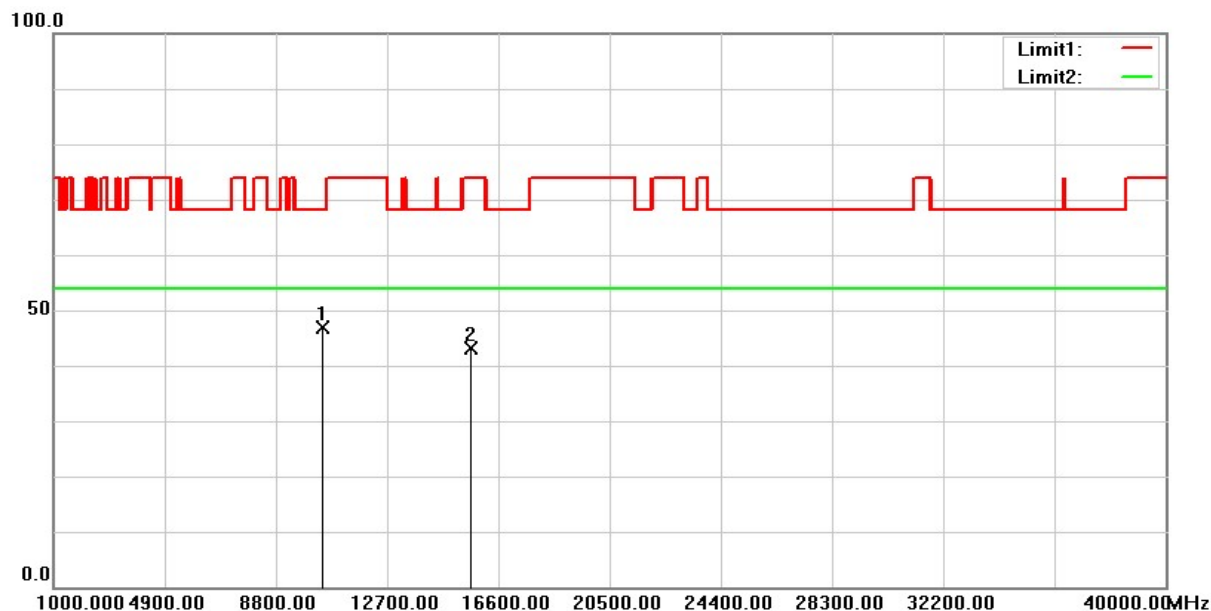


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	70.18	-8.20	61.98	74.00	-12.02	peak
2	11550.000	55.58	-8.20	47.38	54.00	-6.62	AVG
3	17325.000	48.96	-1.42	47.54	68.20	-20.66	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 5 : Receiver (802.11a 6Mbps)	Test Date :	2020/11/18
Test Channel :	CH44(5220MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

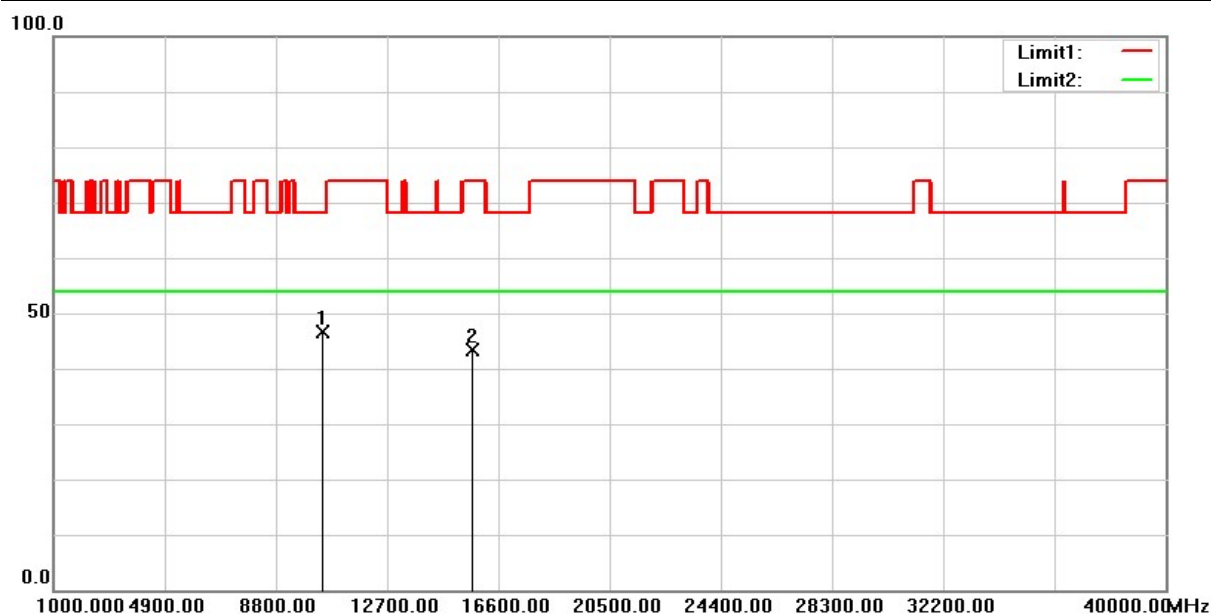


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10440.000	55.63	-8.76	46.87	68.20	-21.33	peak
2	15660.000	50.54	-7.47	43.07	74.00	-30.93	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 5 : Receiver (802.11a 6Mbps)	Test Date :	2020/11/18
Test Channel :	CH44(5220MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

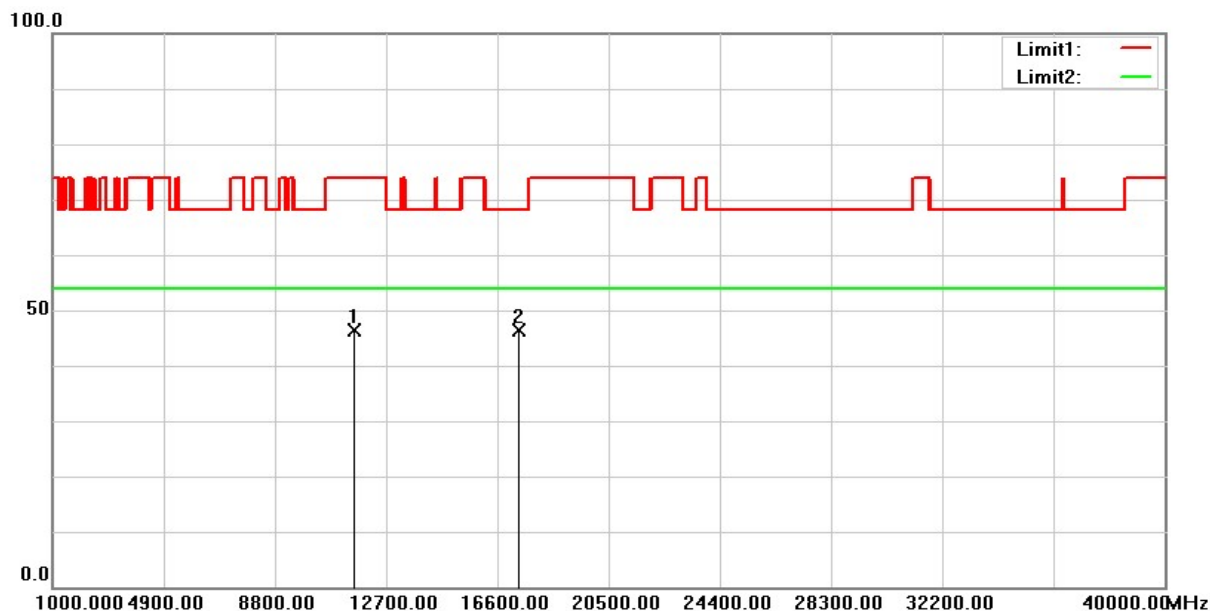


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10440.000	55.44	-8.76	46.68	68.20	-21.52	peak
2	15660.000	50.93	-7.47	43.46	74.00	-30.54	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 5 : Receiver(802.11a)	Test Date :	2020/11/18
Test Channel :	CH157(5785MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %

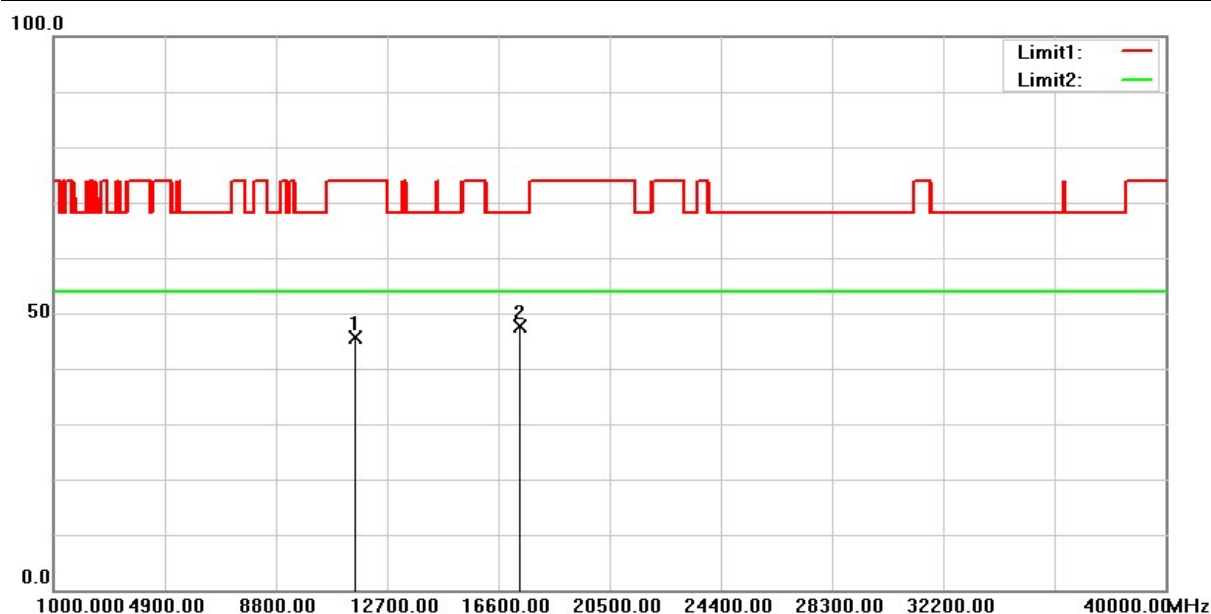


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	55.31	-8.97	46.34	74.00	-27.66	peak
2	17355.000	47.61	-1.17	46.44	68.20	-21.76	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 5 : Receiver(802.11a)	Test Date :	2020/11/18
Test Channel :	CH157(5785MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



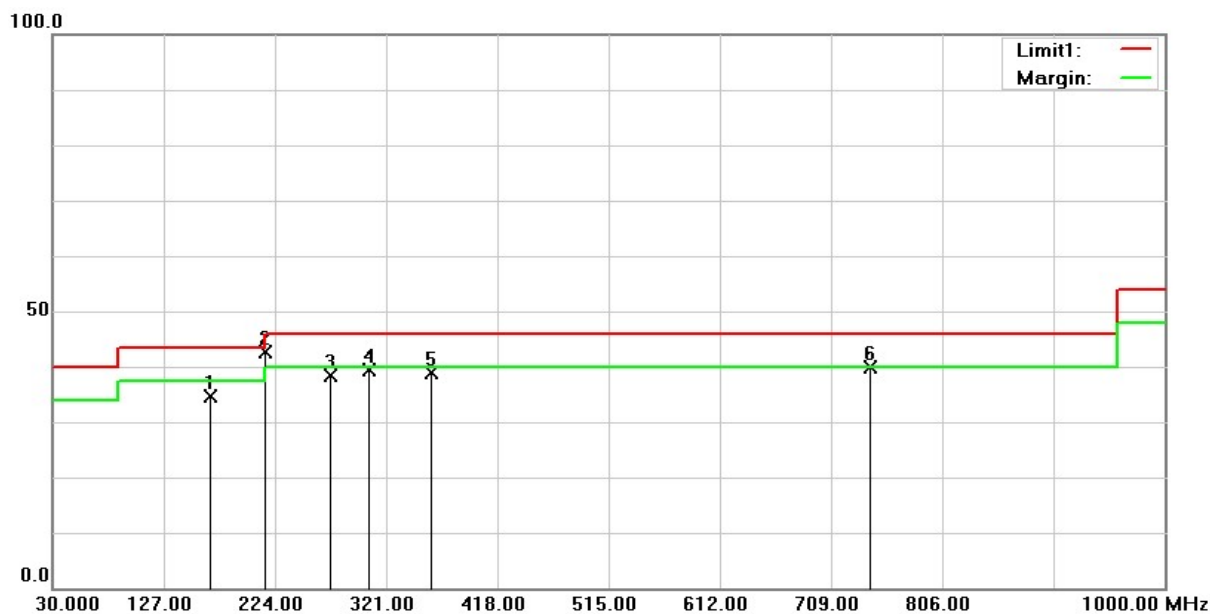
No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	54.67	-8.97	45.70	74.00	-28.30	peak
2	17355.000	48.73	-1.17	47.56	68.20	-20.64	peak

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Below 1GHz Data

Test Mode :	Mode 1 : Transmit(802.11a)	Test Date :	2020/11/18
Test Channel :	CH44(5220MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	167.7400	43.35	-8.69	34.66	43.50	-8.84	QP
2	215.2700	53.17	-10.47	42.70	43.50	-0.80	QP
3	272.5000	46.34	-8.01	38.33	46.00	-7.67	QP
4	306.4500	47.33	-8.07	39.26	46.00	-6.74	QP
5	359.8000	45.87	-6.94	38.93	46.00	-7.07	QP
6	742.9500	39.47	0.48	39.95	46.00	-6.05	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 : Transmit(802.11a)	Test Date :	2020/11/18
Test Channel :	CH44(5220MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %

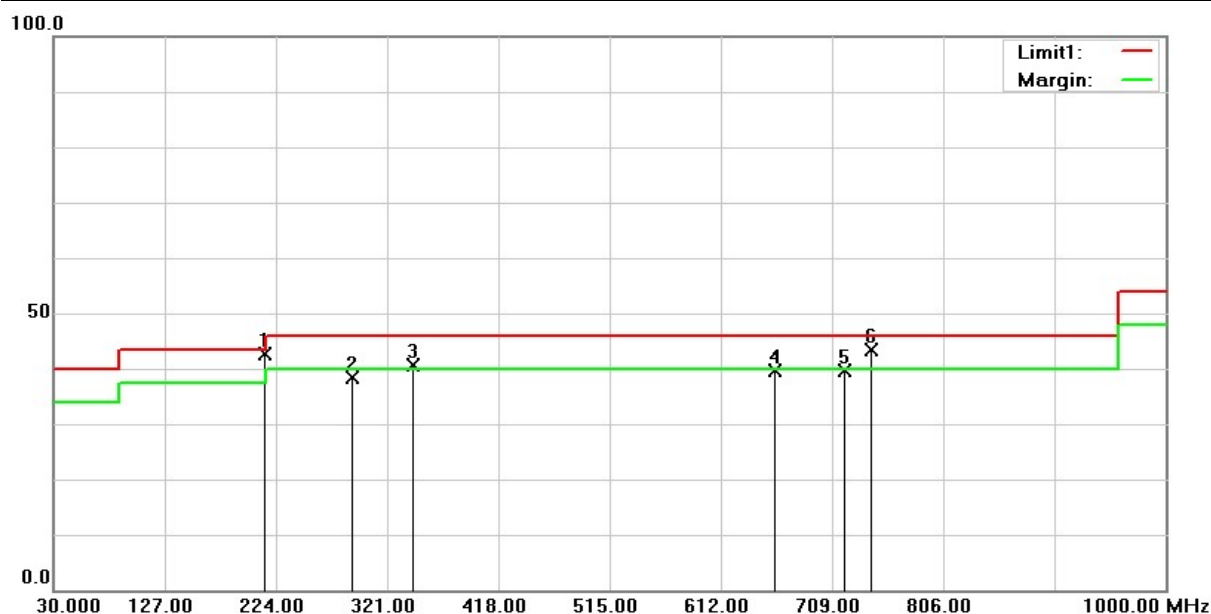


No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	60.0700	46.10	-10.39	35.71	40.00	-4.29	QP
2	215.2700	49.90	-10.47	39.43	43.50	-4.07	QP
3	399.5700	41.35	-6.14	35.21	46.00	-10.79	QP
4	527.6100	39.19	-3.25	35.94	46.00	-10.06	QP
5	742.9500	33.49	0.48	33.97	46.00	-12.03	QP
6	943.7400	31.54	3.81	35.35	46.00	-10.65	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 : Transmit(802.11a)	Test Date :	2020/11/18
Test Channel :	CH157(5785MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	214.3000	53.25	-10.54	42.71	43.50	-0.79	QP
2	290.9300	46.14	-7.72	38.42	46.00	-7.58	QP
3	343.3100	47.89	-7.28	40.61	46.00	-5.39	QP
4	659.5300	40.40	-0.89	39.51	46.00	-6.49	QP
5	719.6700	39.62	-0.08	39.54	46.00	-6.46	QP
6	742.9500	42.82	0.48	43.30	46.00	-2.70	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 1 : Transmit(802.11a)	Test Date :	2020/11/18
Test Channel :	CH157(5785MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	159.9800	44.59	-8.82	35.77	43.50	-7.73	QP
2	216.2400	50.46	-10.39	40.07	46.00	-5.93	QP
3	289.9600	44.29	-7.66	36.63	46.00	-9.37	QP
4	346.2200	44.54	-7.27	37.27	46.00	-8.73	QP
5	414.1200	43.65	-5.83	37.82	46.00	-8.18	QP
6	552.8300	39.37	-2.84	36.53	46.00	-9.47	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 5 : Receiver(802.11a)	Test Date :	2020/11/18
Test Channel :	CH44(5220MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	213.3300	53.07	-10.60	42.47	43.50	-1.03	QP
2	227.8800	49.46	-9.27	40.19	46.00	-5.81	QP
3	359.8000	46.81	-6.94	39.87	46.00	-6.13	QP
4	659.5300	39.88	-0.89	38.99	46.00	-7.01	QP
5	734.2200	41.17	0.33	41.50	46.00	-4.50	QP
6	742.9500	41.27	0.48	41.75	46.00	-4.25	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 5 : Receiver(802.11a)	Test Date :	2020/11/18
Test Channel :	CH44(5220MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	120.2100	48.47	-11.54	36.93	43.50	-6.57	QP
2	229.8200	46.00	-9.22	36.78	46.00	-9.22	QP
3	290.9300	43.34	-7.72	35.62	46.00	-10.38	QP
4	339.4300	43.93	-7.30	36.63	46.00	-9.37	QP
5	418.0000	42.90	-5.65	37.25	46.00	-8.75	QP
6	549.9200	39.85	-2.91	36.94	46.00	-9.06	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 5 : Receiver(802.11a)	Test Date :	2020/11/18
Test Channel :	CH157(5785MHz)	Temperature :	25 °C
Polarization :	Horizontal	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	214.3000	53.20	-10.54	42.66	43.50	-0.84	QP
2	289.9600	46.54	-7.66	38.88	46.00	-7.12	QP
3	359.8000	45.96	-6.94	39.02	46.00	-6.98	QP
4	659.5300	39.59	-0.89	38.70	46.00	-7.30	QP
5	704.1500	39.78	-0.24	39.54	46.00	-6.46	QP
6	742.9500	42.19	0.48	42.67	46.00	-3.33	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

Test Mode :	Mode 5 : Receiver(802.11a)	Test Date :	2020/11/18
Test Channel :	CH157(5785MHz)	Temperature :	25 °C
Polarization :	Vertical	Relative Humidity :	65 %



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	120.2100	47.48	-11.54	35.94	43.50	-7.56	QP
2	227.8800	46.24	-9.27	36.97	46.00	-9.03	QP
3	289.9600	42.69	-7.66	35.03	46.00	-10.97	QP
4	418.9700	42.48	-5.61	36.87	46.00	-9.13	QP
5	547.0100	38.62	-2.98	35.64	46.00	-10.36	QP
6	742.9500	34.39	0.48	34.87	46.00	-11.13	QP

Remark :

1. Correction Factor = Antenna factor + Cable loss – Amplifier gain
2. Result Value = Reading Level + Correct Factor
3. Margin Level = Result Value – Limit Value
4. The other emission levels were very low against the limit

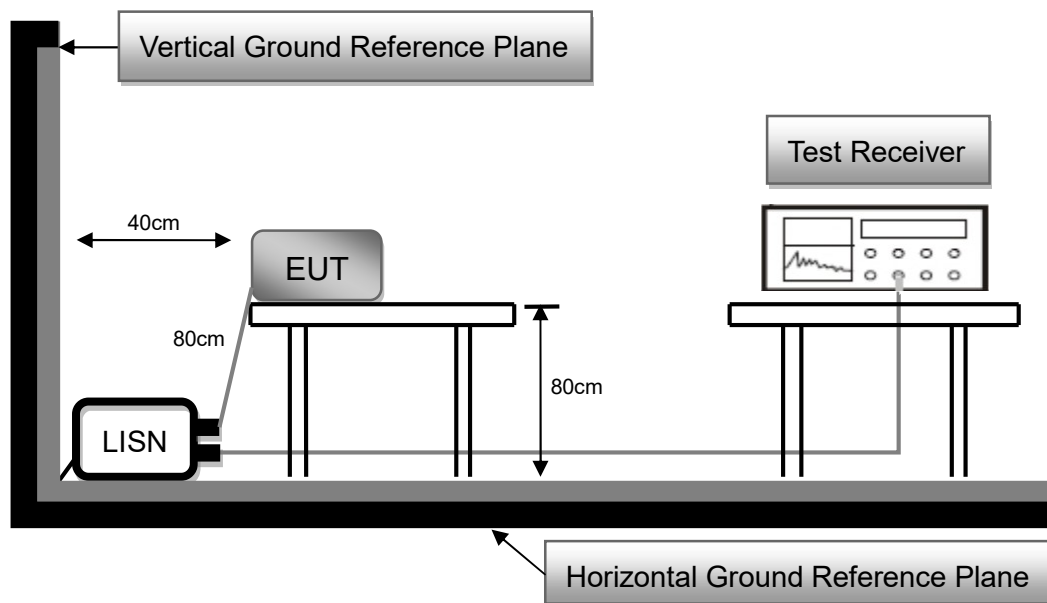
2.6 電源線傳導干擾

2.6.1 限制值

Frequency (MHz)	NCC LP0002 2.3 Limit	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.50 to 5.0	56	46
5.0 to 30.0	60	50

*隨頻率之對數遞減

2.6.2 測試架構

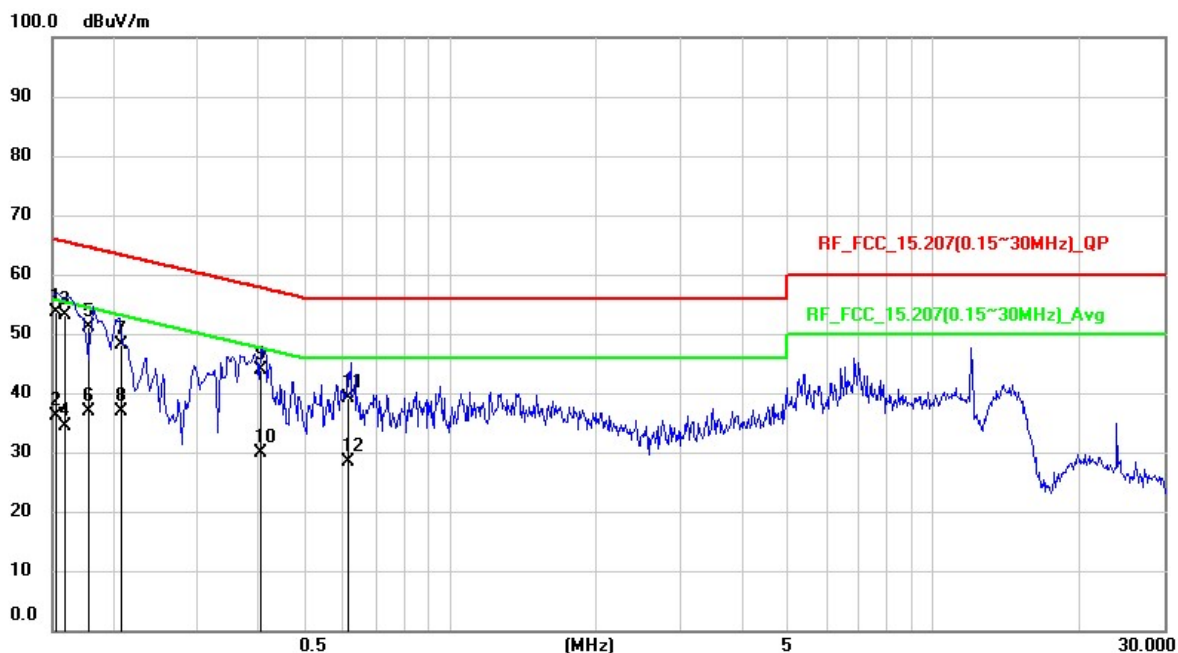


2.6.3 測試流程

1. 待測物從水平地平面放置 0.8 米高的木桌，待測物通過線路阻抗穩定網絡（LISN）連接到電源。LISN 距離最近的待測物底盤至少 80 厘米。
2. 線路阻抗穩定網絡（LISN）為測量儀器提供 50 歐姆/ 50uH 的耦合阻抗。其他設備均由額外的 LISN 提供動力。
3. 懸掛在離地平面 40 厘米以內的相互關聯的電纜應在中心前後折疊形成一束。所有未連接到外圍設備的 I/O 電纜應在中心捆綁。如果需要，可以使用正確的終端阻抗終止電纜的末端。總長度不得超過 1 米。
4. EMI 測試接收器連接到 LISN 為待測物供電。實際測試配置請參考待測物測試照片。
5. 接收器在 150kHz 至 30MHz 範圍內掃描每種測試模式的發射。掃描兩條電源線，Line 和 Neutral，記錄至少六個最高排放。
6. 記錄上述最高排放水平的待測物和電纜配置。記錄了最差情況的測試數據。

2.6.4 測試結果

Test Voltage :	110Vac, 60Hz	Frequency Range:	0.15-30 MHz
Test Mode :	Mode 6: Normal Link	6dB Bandwidth :	9 kHz
Test Date :	2020/11/03	Phase :	L
Temperature :	25°C	Humidity :	65 %

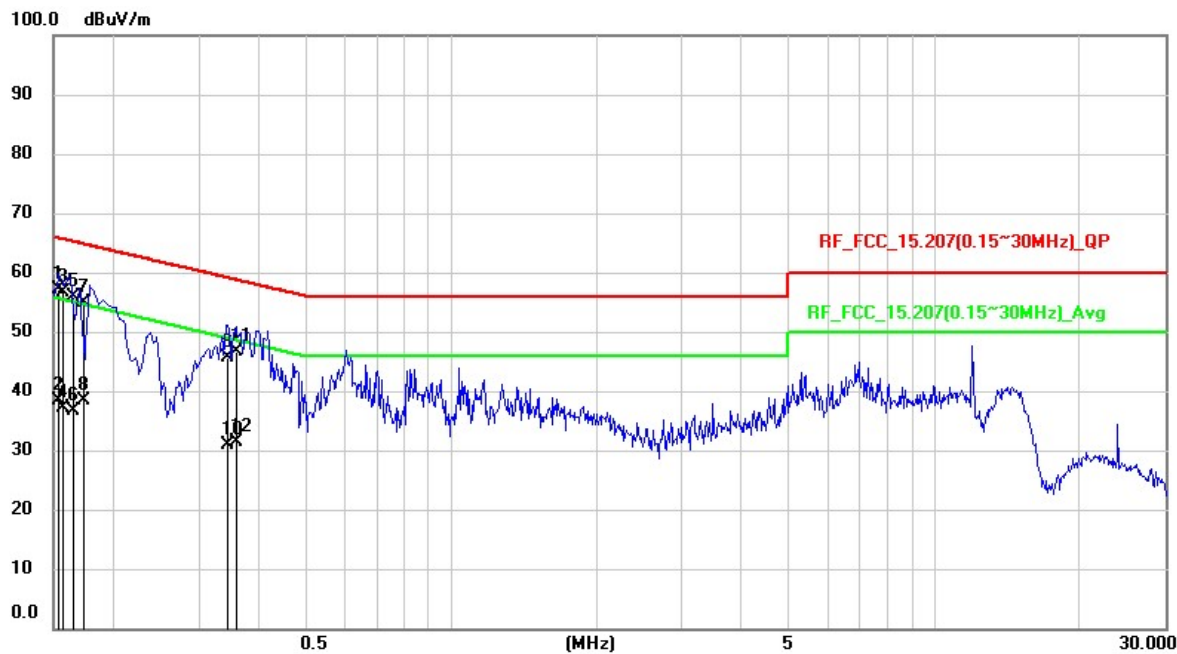


No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1519	43.73	9.94	53.67	65.9	-12.23	QP
2	0.1519	26.18	9.94	36.12	55.9	-19.78	AVG
3	0.1585	43.13	9.94	53.07	65.54	-12.47	QP
4	0.1585	24.56	9.94	34.5	55.54	-21.04	AVG
5	0.178	41.1	9.94	51.04	64.58	-13.54	QP
6	0.178	26.9	9.94	36.84	54.58	-17.74	AVG
7	0.2087	38.27	9.94	48.21	63.26	-15.05	QP
8	0.2087	26.95	9.94	36.89	53.26	-16.37	AVG
9	0.4044	33.92	9.95	43.87	57.76	-13.89	QP
10	0.4044	19.82	9.95	29.77	47.76	-17.99	AVG
11	0.6168	29.13	9.95	39.08	56	-16.92	QP
12	0.6168	18.31	9.95	28.26	46	-17.74	AVG

Remark:

1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value – Limit Value

Test Voltage :	110Vac, 60Hz	Frequency Range:	0.15-30 MHz
Test Mode :	Mode 6: Normal Link	6dB Bandwidth :	9 kHz
Test Date :	2020/11/03	Phase :	N
Temperature :	25°C	Humidity :	65 %



No.	Frequency (MHz)	Reading Level (dBuV)	Correct Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1526	47.04	9.97	57.01	65.86	-8.85	QP
2	0.1526	28.41	9.97	38.38	55.86	-17.48	AVG
3	0.1576	46.66	9.97	56.63	65.59	-8.96	QP
4	0.1576	27.27	9.97	37.24	55.59	-18.35	AVG
5	0.1655	45.83	9.97	55.8	65.18	-9.38	QP
6	0.1655	26.77	9.97	36.74	55.18	-18.44	AVG
7	0.1734	44.8	9.97	54.77	64.8	-10.03	QP
8	0.1734	28.51	9.97	38.48	54.8	-16.32	AVG
9	0.3454	35.77	9.97	45.74	59.07	-13.33	QP
10	0.3454	20.82	9.97	30.79	49.07	-18.28	AVG
11	0.358	36.73	9.97	46.7	58.77	-12.07	QP
12	0.358	21.5	9.97	31.47	48.77	-17.3	AVG

Remark:

1. QP = Quasi Peak, AVG = Average
2. Correction Factor = Insertion loss of LISN + Cable loss
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value – Limit Value

2.7 電波暴露量之評估

2.7.1 限制值

依據低功率射頻電機技術規範第 5.20.2 章節要求:

若受測物於正常操作模式下，其發射機距離人體 20 公分以上者，可測試最大暴露允許值 (Maximum Permissible Exposure, MPE) 以證明其符電波暴露量之要求。限制值如下：

(1) 職業性/可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	6
3-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5.0	6

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

(2) 一般人/不可控制之暴露

頻率範圍 (MHz)	電場強度 (V/m)	磁場強度 (A/m)	功率密度 (mW/cm ²)	平均時間 (minutes)
0.3-3.0	614	1.63	*100	30
3-30	1842/f	4.89/f	*180/f ²	30
30-300	27.5	0.073	1.0	30
300-1,500	--	--	f/1500	30
1,500-100,000	--	--	1.0	30

註 1：標記*表平面波等效功率密度。

註 2：f 表測試頻率，單位：百萬赫(MHz)。

Estimation of the expected exposure in power density can be made with the following equation:

$$S = \frac{P \times G}{4\pi \times R^2} = \frac{\text{EIRP}}{4\pi \times R^2}$$

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna.

EIRP: Effective Isotropic Radiated Power

2.7.2 測試結果

Mode	Max. Power (E.I.R.P)		Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Result
	dBm	mW				
BT	5.67	3.69	20	0.00073	1	Pass
LE	10.88	12.25	20	0.00244	1	Pass
WLAN 2.4G	30.73	1183.04	20	0.23536	1	Pass
WLAN 5G	26.33	429.54	20	0.08545	1	Pass

Note:

- * The Numeric Gain calculated by $10^{(\text{dBi}/10)}$.
- * Each Function of the max power which perform MPE of any configurations.
- * 802.11a/b/g is CDD mode and dual antenna simultaneous transmission.
- * 802.11n/ac is MIMO mode and dual antenna simultaneous transmission.
- * The total power of WLAN 2.4G and LE transmission at the same time is the largest.
- * The frequency (range) used by the radio frequency function is 1.5GHz~100GHz, the exemption limit is e.i.r.p. less than or equal to 1mW.
- * The limit is equal to the minimum value.
- * The Max total MPE = LE + WLAN 2.4G = 0.23779 (mW/cm²)

--- END ---