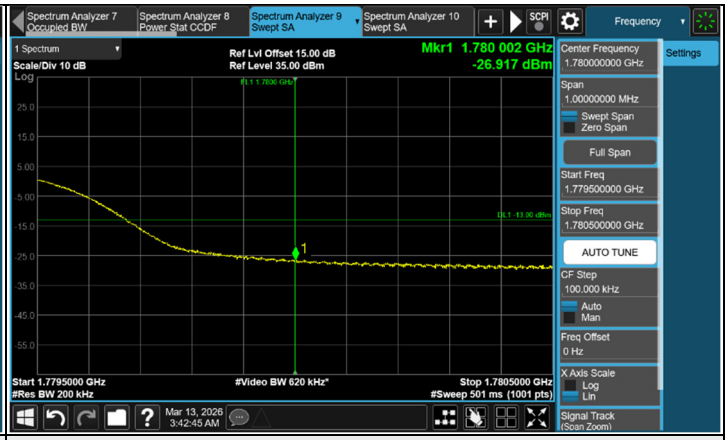
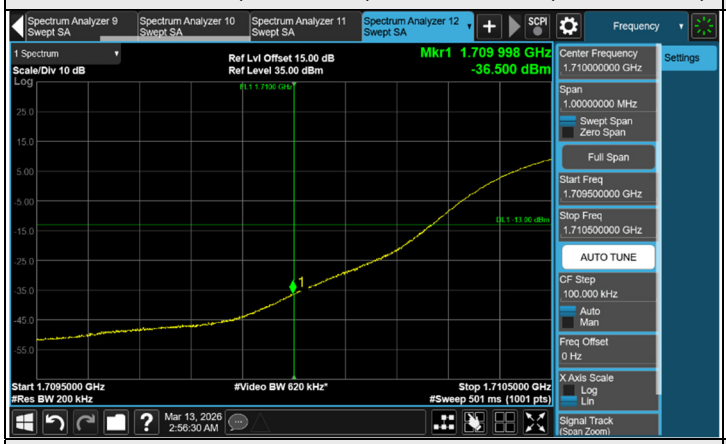
Modulation: QPSK

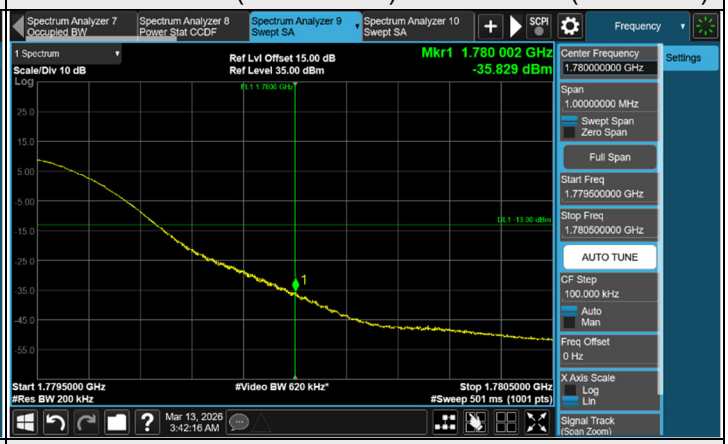
FULL CH 132022 (1715 MHz) + CH 132121 (1724.9 MHz)



FULL CH 132523 (1765.1 MHz) + CH 132622 (1775 MHz)



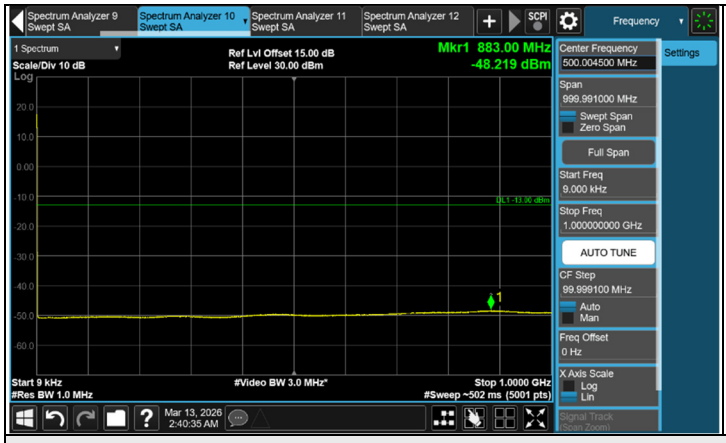
1RB CH 132022 (1715 MHz) + CH 132121 (1724.9 MHz)

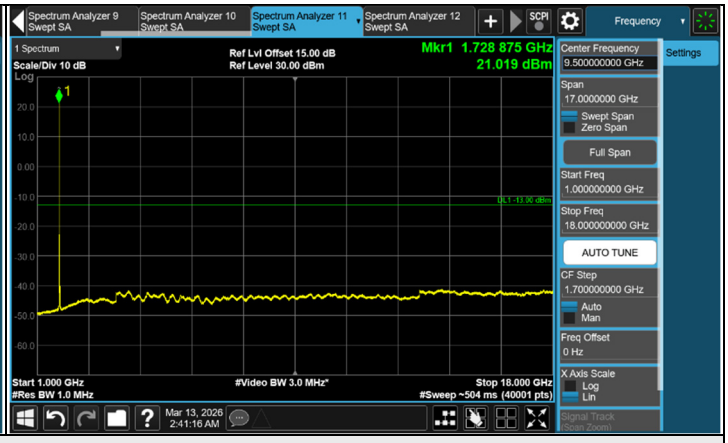


1RB CH 132523 (1765.1 MHz) + CH 132622 (1775 MHz)

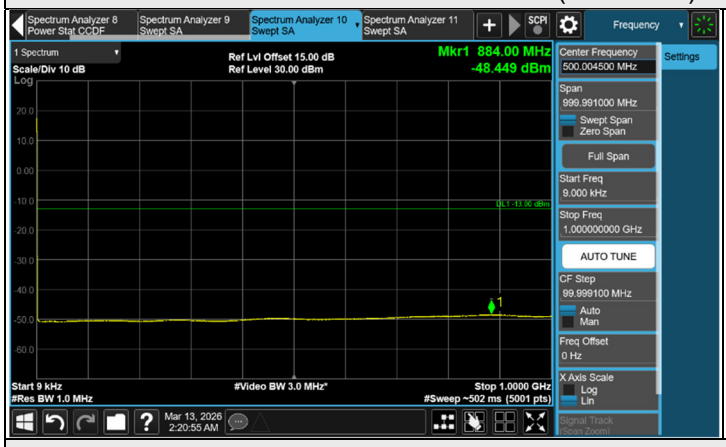
7.4.5 LTE Band 66 (CA 66C)

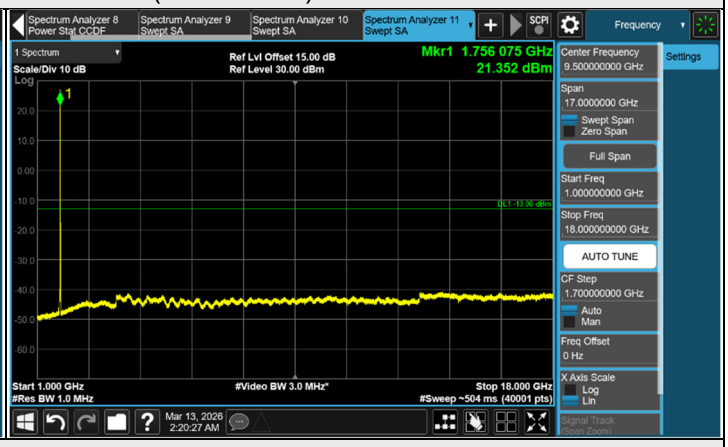
Channel Bandwidth: 20 MHz+20 MHz



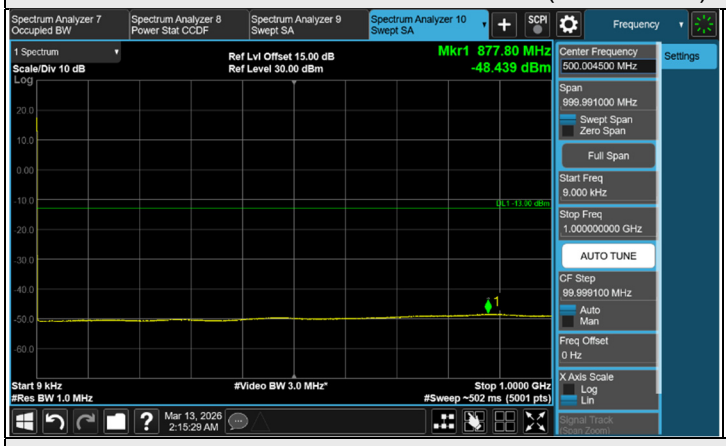


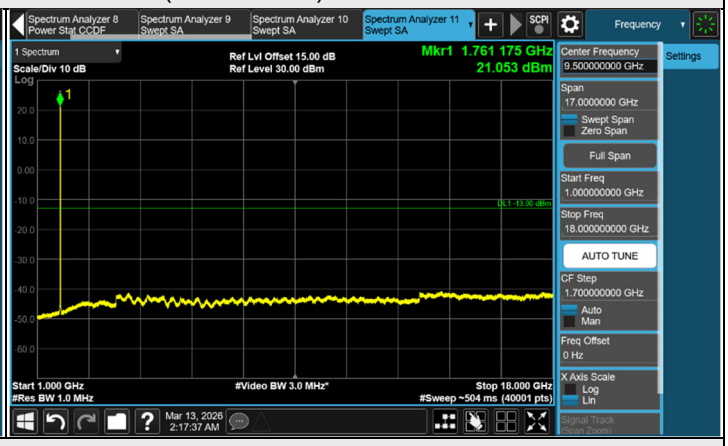
CH 132072 (1720 MHz) + CH 132270 (1739.8 MHz)





CH 132323 (1745.1 MHz) + CH 132521 (1764.9 MHz)



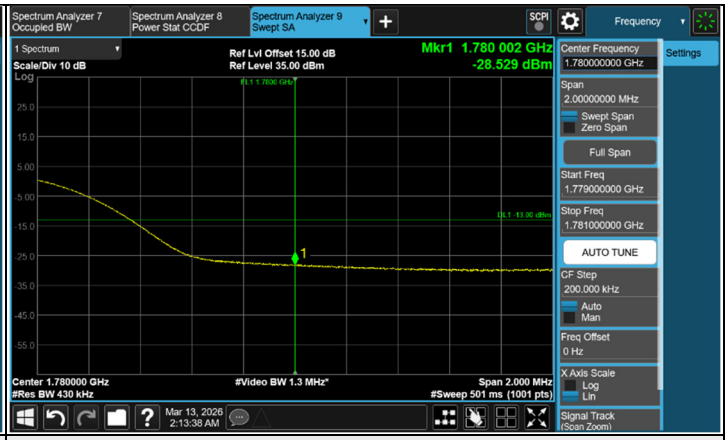


CH 132374 (1750.2 MHz) + CH 132572 (1770 MHz)

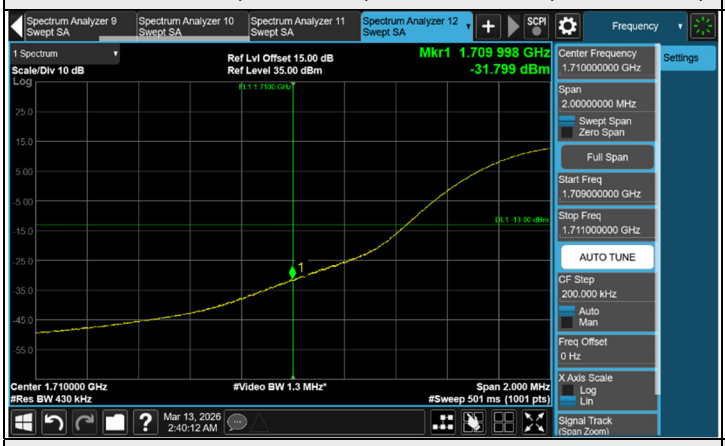
Note: The signal at 9 kHz is IF signal from spectrum analyzer.

Modulation: QPSK

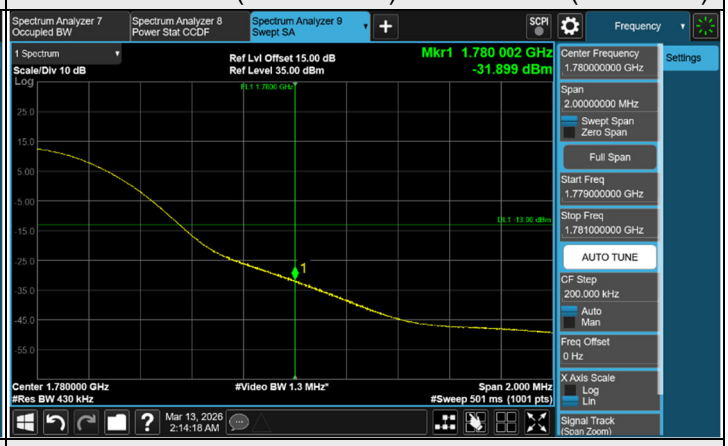
FULL CH 132072 (1720 MHz) + CH 132270 (1739.8 MHz)



FULL CH 132374 (1750.2 MHz) + CH 132572 (1770 MHz)



1RB CH 132072 (1720 MHz) + CH 132270 (1739.8 MHz)



1RB CH 132374 (1750.2 MHz) + CH 132572 (1770 MHz)

7.5 Radiated Spurious Emissions below 1GHz

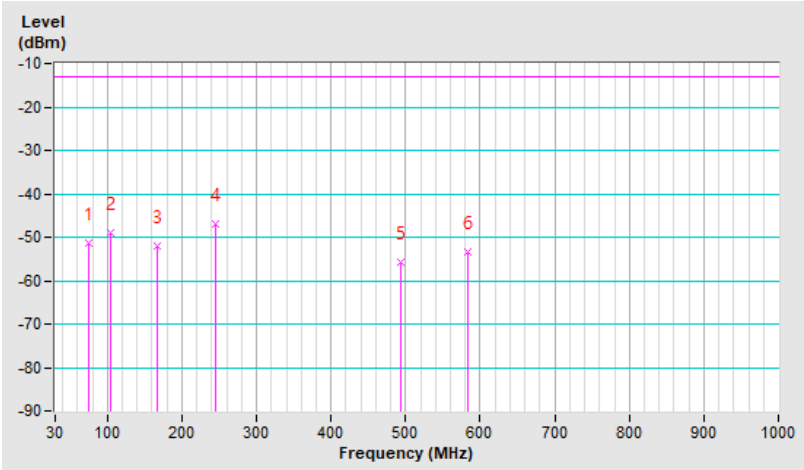
7.5.1 LTE Band 2 (CA 2C)

RF Mode	LTE Band 2 (CA 2C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 18801 (1870.1MHz) + CH 18999 (1889.9MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	74.62	-51.36	-13.00	-38.36	1.50 H	108	55.69	-107.05
2	104.69	-49.03	-13.00	-36.03	1.00 H	127	58.53	-107.56
3	167.74	-52.07	-13.00	-39.07	1.50 H	108	51.51	-103.58
4	245.34	-46.84	-13.00	-33.84	1.00 H	122	57.12	-103.96
5	493.66	-55.62	-13.00	-42.62	1.00 H	175	42.41	-98.03
6	582.90	-53.36	-13.00	-40.36	1.00 H	318	42.83	-96.19

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

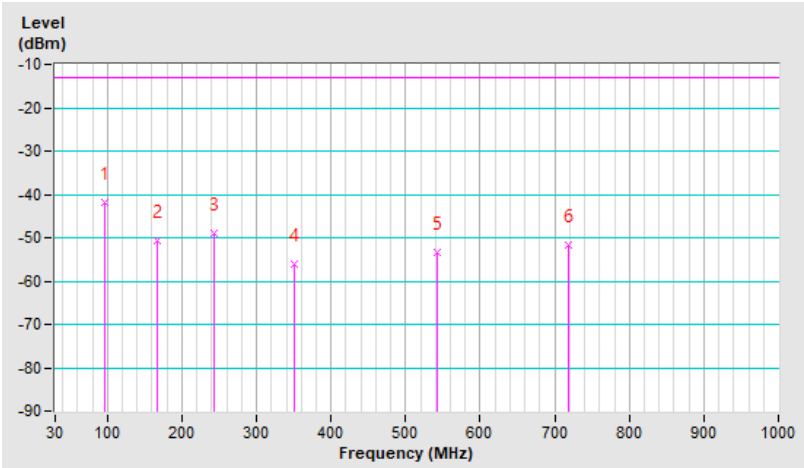


RF Mode	LTE Band 2 (CA 2C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 18801 (1870.1MHz) + CH 18999 (1889.9MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	95.96	-41.99	-13.00	-28.99	1.50 V	244	67.09	-109.08
2	167.74	-50.62	-13.00	-37.62	1.00 V	26	52.96	-103.58
3	243.40	-49.11	-13.00	-36.11	2.00 V	343	54.96	-104.07
4	351.07	-56.22	-13.00	-43.22	1.00 V	132	44.53	-100.75
5	543.13	-53.32	-13.00	-40.32	2.00 V	193	43.87	-97.19
6	717.73	-51.53	-13.00	-38.53	1.00 V	148	42.38	-93.91

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



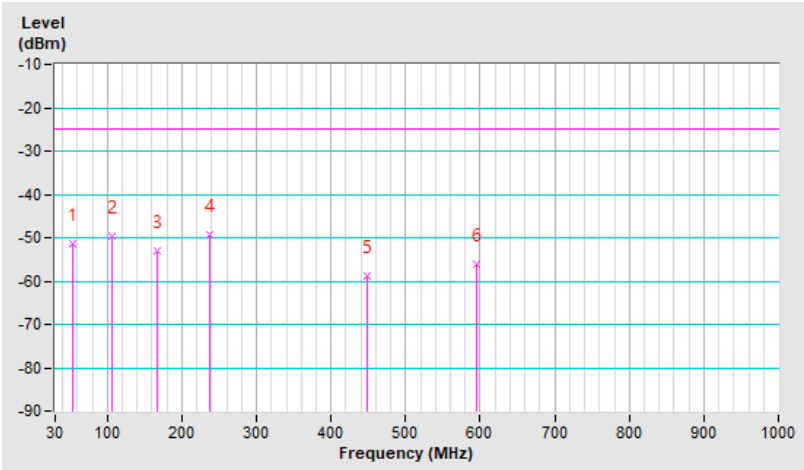
7.5.2 LTE Band 41 (CA 41C)

RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 40521 (2583.1MHz) + CH 40719 (2602.9MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	54.25	-51.46	-25.00	-26.46	1.50 H	116	52.84	-104.30
2	105.66	-49.50	-25.00	-24.50	1.50 H	122	57.97	-107.47
3	167.74	-53.00	-25.00	-28.00	1.00 H	6	50.58	-103.58
4	237.58	-49.32	-25.00	-24.32	1.50 H	188	55.25	-104.57
5	448.07	-58.92	-25.00	-33.92	1.00 H	0	39.52	-98.44
6	595.51	-56.14	-25.00	-31.14	1.00 H	92	39.69	-95.83

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

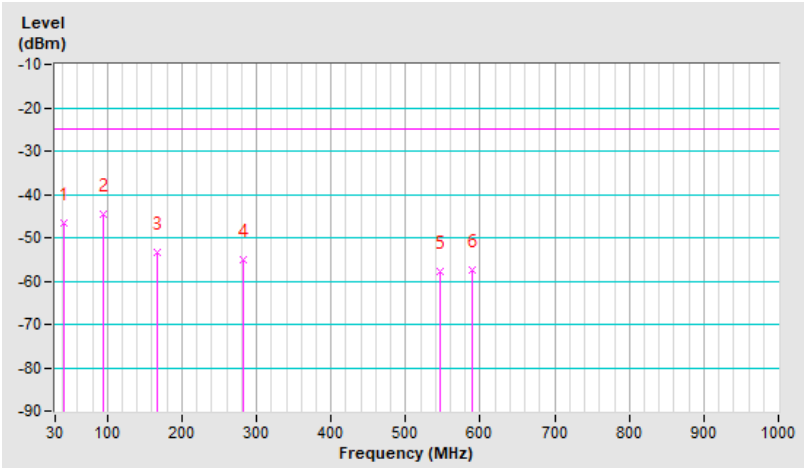


RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 40521 (2583.1MHz) + CH 40719 (2602.9MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	41.64	-46.62	-25.00	-21.62	1.50 V	90	60.06	-106.68
2	**94.99**	**-44.66**	**-25.00**	**-19.66**	**1.50 V**	**201**	**66.65**	**-111.31**
3	167.74	-53.36	-25.00	-28.36	1.00 V	32	52.37	-105.73
4	283.17	-55.23	-25.00	-30.23	1.00 V	88	49.08	-104.31
5	546.04	-57.91	-25.00	-32.91	1.50 V	260	41.38	-99.29
6	589.69	-57.32	-25.00	-32.32	1.00 V	164	40.81	-98.13

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



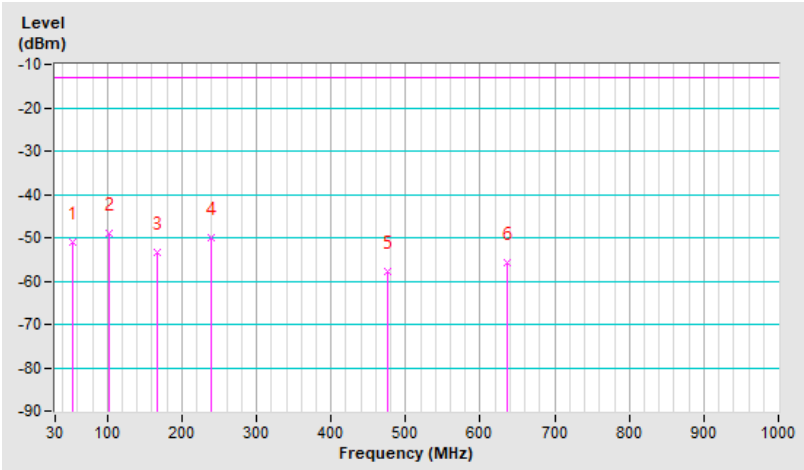
7.5.3 LTE Band 42 (CA 42C)

RF Mode	LTE Band 42 (CA 42C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 42791 (3520.1 MHz) + CH 42990 (3540.0 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	53.28	-50.94	-13.00	-37.94	1.00 H	141	53.21	-104.15
2	101.78	-48.90	-13.00	-35.90	1.00 H	128	59.18	-108.08
3	167.74	-53.55	-13.00	-40.55	1.50 H	212	50.03	-103.58
4	238.55	-49.86	-13.00	-36.86	1.00 H	183	54.59	-104.45
5	476.20	-57.72	-13.00	-44.72	2.00 H	32	40.47	-98.19
6	637.22	-55.81	-13.00	-42.81	1.00 H	148	39.19	-95.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

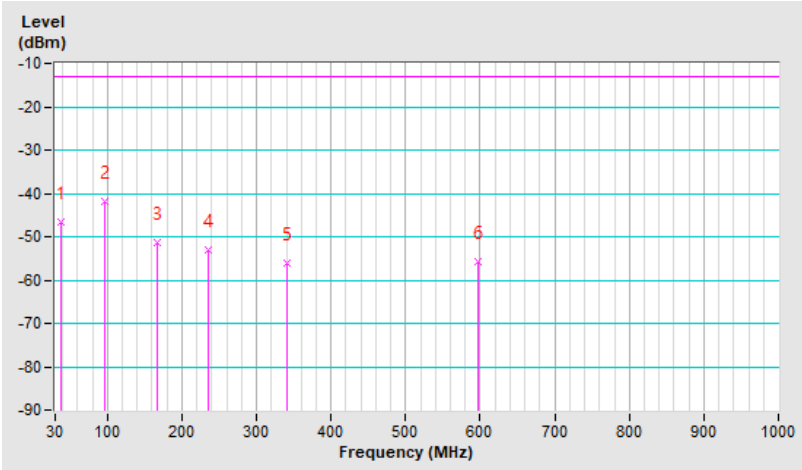


RF Mode	LTE Band 42 (CA 42C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 42791 (3520.1 MHz) + CH 42990 (3540.0 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	37.76	-46.69	-13.00	-33.69	2.00 V	202	58.21	-104.90
2	95.96	-41.95	-13.00	-28.95	1.00 V	237	67.13	-109.08
3	167.74	-51.39	-13.00	-38.39	1.50 V	15	52.19	-103.58
4	234.67	-52.96	-13.00	-39.96	1.00 V	168	51.94	-104.90
5	341.37	-56.27	-13.00	-43.27	1.50 V	107	44.57	-100.84
6	597.45	-55.86	-13.00	-42.86	1.00 V	234	39.91	-95.77

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



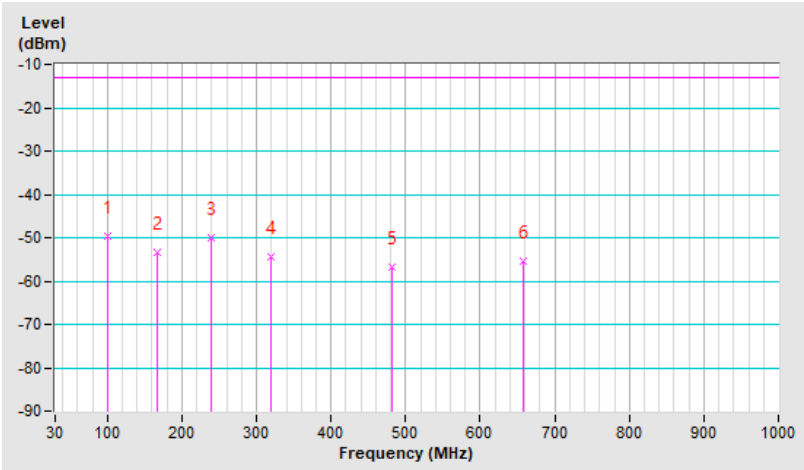
7.5.4 LTE Band 66 (CA 66B)

RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132523 (1765.1 MHz) + CH 132622 (1775.0 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	100.81	-49.57	-13.00	-36.57	2.00 H	138	58.65	-108.22
2	167.74	-53.28	-13.00	-40.28	1.00 H	223	50.30	-103.58
3	238.55	-50.09	-13.00	-37.09	2.00 H	207	54.36	-104.45
4	319.06	-54.26	-13.00	-41.26	1.50 H	106	46.83	-101.09
5	482.02	-56.83	-13.00	-43.83	1.00 H	157	41.32	-98.15
6	658.56	-55.42	-13.00	-42.42	1.00 H	85	39.38	-94.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

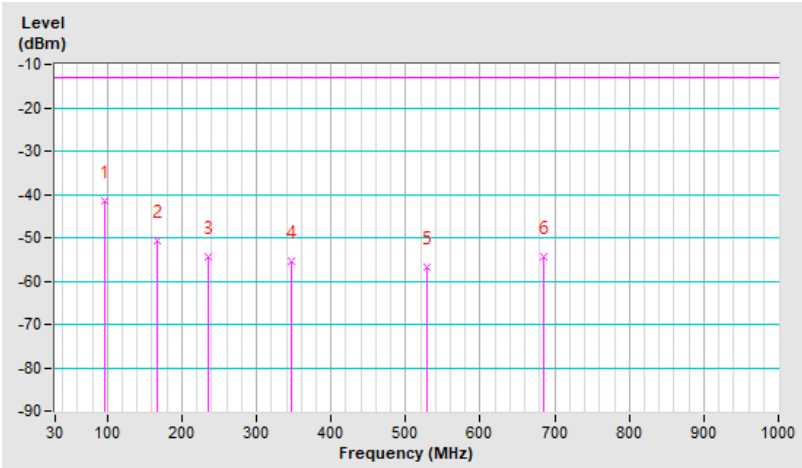


RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132523 (1765.1 MHz) + CH 132622 (1775.0 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	95.96	-41.62	-13.00	-28.62	1.50 V	249	67.46	-109.08
2	167.74	-50.66	-13.00	-37.66	1.00 V	326	52.92	-103.58
3	235.64	-54.35	-13.00	-41.35	2.00 V	177	50.42	-104.77
4	346.22	-55.59	-13.00	-42.59	1.00 V	138	45.24	-100.83
5	528.58	-56.67	-13.00	-43.67	2.00 V	125	40.74	-97.41
6	684.75	-54.46	-13.00	-41.46	1.00 V	321	39.98	-94.44

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



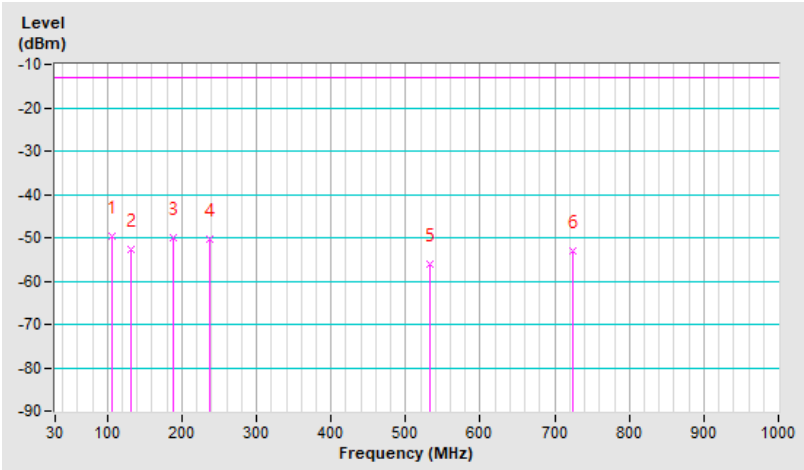
7.5.5 LTE Band 66 (CA 66C)

RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132374 (1750.2 MHz) + CH 132572 (1770.0 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	106.63	-49.53	-13.00	-36.53	1.00 H	125	57.77	-107.30
2	130.88	-52.61	-13.00	-39.61	1.50 H	135	52.24	-104.85
3	188.11	-49.97	-13.00	-36.97	1.00 H	83	55.77	-105.74
4	237.58	-50.19	-13.00	-37.19	1.50 H	188	54.38	-104.57
5	533.43	-55.94	-13.00	-42.94	2.00 H	72	41.40	-97.34
6	724.52	-53.22	-13.00	-40.22	1.00 H	151	40.54	-93.76

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

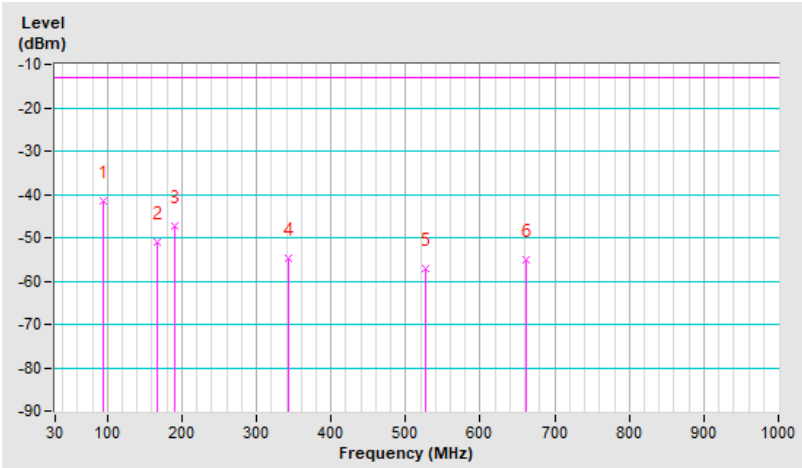


RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132374 (1750.2 MHz) + CH 132572 (1770.0 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	94.99	-41.46	-13.00	-28.46	2.00 V	243	67.70	-109.16
2	167.74	-50.94	-13.00	-37.94	1.00 V	25	52.64	-103.58
3	191.02	-47.24	-13.00	-34.24	1.50 V	104	58.71	-105.95
4	343.31	-54.78	-13.00	-41.78	1.00 V	126	46.07	-100.85
5	527.61	-57.28	-13.00	-44.28	2.00 V	152	40.15	-97.43
6	661.47	-55.14	-13.00	-42.14	1.00 V	59	39.62	-94.76

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.6 Radiated Spurious Emissions above 1GHz

7.6.1 LTE Band 2 (CA 2C)

RF Mode	LTE Band 2 (CA 2C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 18700 (1860.0MHz) + CH 18898 (1879.8MHz)
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-48.70	-13.00	-35.70	1.91 H	299	44.11	-92.81
2	3759.60	-48.83	-13.00	-35.83	1.87 H	306	43.85	-92.68
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-48.79	-13.00	-35.79	1.59 V	229	44.02	-92.81
2	3759.60	-48.87	-13.00	-35.87	1.63 V	231	43.81	-92.68

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 (CA 2C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 18801 (1870.1MHz) + CH 18999 (1889.9MHz)
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.20	-48.65	-13.00	-35.65	1.90 H	306	44.09	-92.74
2	3779.80	-48.78	-13.00	-35.78	1.89 H	302	43.88	-92.66
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3740.20	-48.72	-13.00	-35.72	1.61 V	233	44.02	-92.74
2	3779.80	-48.84	-13.00	-35.84	1.60 V	228	43.82	-92.66

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 2 (CA 2C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 18902 (1880.2MHz) + CH 19100 (1900.0MHz)
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.40	-48.70	-13.00	-35.70	1.89 H	301	43.98	-92.68
2	3800.00	-48.85	-13.00	-35.85	1.91 H	305	43.77	-92.62
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.40	-48.80	-13.00	-35.80	1.64 V	225	43.88	-92.68
2	3800.00	-49.01	-13.00	-36.01	1.58 V	229	43.61	-92.62

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.6.2 LTE Band 41 (CA 41C)

RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 39750 (2506 MHz) + CH 39948 (2525.8 MHz)
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5012.00	-46.84	-25.00	-21.84	1.78 H	257	42.86	-89.70
2	5051.60	-47.09	-25.00	-22.09	1.83 H	259	42.12	-89.21
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5012.00	-47.37	-25.00	-22.37	1.64 V	89	42.33	-89.70
2	5051.60	-47.42	-25.00	-22.42	1.71 V	93	41.79	-89.21

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 40521 (2583.1 MHz) + CH 40719 (2602.9 MHz)
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5166.20	-46.12	-25.00	-21.12	1.89 H	258	42.97	-89.09
2	5205.80	-46.63	-25.00	-21.63	1.84 H	261	42.66	-89.29
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5166.20	-46.61	-25.00	-21.61	1.71 V	102	42.48	-89.09
2	5205.80	-47.06	-25.00	-22.06	1.67 V	94	42.23	-89.29

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 41 (CA 41C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 41292 (2660.2 MHz) + CH 41490 (2680 MHz)
Frequency Range	1 GHz ~ 27 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5320.40	-46.79	-25.00	-21.79	1.85 H	253	42.85	-89.64
2	5360.00	-47.04	-25.00	-22.04	1.90 H	264	42.42	-89.46
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5320.40	-47.31	-25.00	-22.31	1.60 V	95	42.33	-89.64
2	5360.00	-47.45	-25.00	-22.45	1.70 V	94	42.01	-89.46

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.6.3 LTE Band 42 (CA 42C)

RF Mode	LTE Band 42 (CA 42C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 42190 (3460 MHz) + CH 42388 (3479.8 MHz)
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6920.00	-36.67	-13.00	-23.67	3.60 H	119	48.82	-85.49
2	6959.60	-36.77	-13.00	-23.77	3.58 H	116	48.33	-85.10
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6920.00	-36.08	-13.00	-23.08	3.52 V	288	49.41	-85.49
2	6959.60	-36.28	-13.00	-23.28	3.58 V	116	48.82	-85.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 (CA 42C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 42490 (3490.0 MHz) + CH 42689 (3509.9 MHz)
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6980.00	-36.16	-13.00	-23.16	3.68 H	110	48.77	-84.93
2	7019.60	-36.27	-13.00	-23.27	3.52 H	119	48.45	-84.72
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	6980.00	-35.68	-13.00	-22.68	3.71 V	282	49.25	-84.93
2	7019.60	-35.78	-13.00	-22.78	3.71 V	291	48.94	-84.72

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 42 (CA 42C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 42791 (3520.1 MHz) + CH 42990 (3540 MHz)
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7040.20	-35.89	-13.00	-22.89	3.54 H	113	48.79	-84.68
2	7080.00	-36.26	-13.00	-23.26	3.51 H	110	48.48	-84.74
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	7040.20	-35.42	-13.00	-22.42	3.78 V	299	49.26	-84.68
2	7080.00	-35.72	-13.00	-22.72	3.80 V	291	49.02	-84.74

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.6.4 LTE Band 66 (CA 66B)

RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132022 (1715 MHz) + CH 132121 (1724.9 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3430.00	-44.41	-13.00	-31.41	2.82 H	123	49.72	-94.13
2	3449.80	-44.46	-13.00	-31.46	2.78 H	119	49.49	-93.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3430.00	-43.86	-13.00	-30.86	1.81 V	266	50.27	-94.13
2	3449.80	-43.93	-13.00	-30.93	1.75 V	258	50.02	-93.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132373 (1750.1 MHz) + CH 132472 (1760 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3500.20	-43.94	-13.00	-30.94	2.64 H	110	49.55	-93.49
2	3520.00	-44.01	-13.00	-31.01	2.66 H	113	49.34	-93.35
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3500.20	-43.32	-13.00	-30.32	1.83 V	270	50.17	-93.49
2	3520.00	-43.37	-13.00	-30.37	1.79 V	264	49.98	-93.35

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 (CA 66B) Channel Bandwidth: 10MHz + 10MHz	Channel	CH 132523 (1765.1 MHz) + CH 132622 (1775 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3530.20	-43.79	-13.00	-30.79	2.82 H	120	49.49	-93.28
2	3550.00	-43.89	-13.00	-30.89	2.73 H	114	49.25	-93.14
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3530.20	-43.11	-13.00	-30.11	1.77 V	261	50.17	-93.28
2	3550.00	-43.13	-13.00	-30.13	1.75 V	258	50.01	-93.14

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.6.5 LTE Band 66 (CA 66C)

RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132072 (1720 MHz) + CH 132270 (1739.8 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-44.33	-13.00	-31.33	2.66 H	110	49.71	-94.04
2	3479.60	-44.33	-13.00	-31.33	2.73 H	113	49.34	-93.67
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3440.00	-43.75	-13.00	-30.75	1.85 V	270	50.29	-94.04
2	3479.60	-43.76	-13.00	-30.76	1.81 V	264	49.91	-93.67

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132323 (1745.1 MHz) + CH 132521 (1764.9 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.20	-44.16	-13.00	-31.16	2.62 H	110	49.42	-93.58
2	3529.80	-44.21	-13.00	-31.21	2.72 H	111	49.07	-93.28
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3490.20	-43.46	-13.00	-30.46	1.77 V	260	50.12	-93.58
2	3529.80	-43.57	-13.00	-30.57	1.79 V	257	49.71	-93.28

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	LTE Band 66 (CA 66C) Channel Bandwidth: 20MHz + 20MHz	Channel	CH 132374 (1750.2 MHz) + CH 132572 (1770 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Adair Peng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3500.40	-44.02	-13.00	-31.02	2.80 H	124	49.47	-93.49
2	3540.00	-44.06	-13.00	-31.06	2.76 H	118	49.15	-93.21
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3500.40	-43.44	-13.00	-30.44	1.73 V	261	50.05	-93.49
2	3540.00	-43.49	-13.00	-30.49	1.77 V	264	49.72	-93.21

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

7.7 Frequency Stability

Environmental Conditions:	25°C, 67% RH	Tested By:	Kevin Kuo

7.7.1 LTE Band 2 (CA 2C)

Channel Bandwidth: 20 MHz+20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18700 (1860.0MHz) + CH 19100 (1900.0MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1859.999999	-0.0005	1900.000005	0.0026
3.80	1859.999999	-0.0005	1899.999995	-0.0026
4.37	1859.999999	-0.0005	1899.999998	-0.0011

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 18700 (1860.0MHz) + CH 19100 (1900.0MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1860.000002	0.0011	1900.000002	0.0011
-20	1860.000004	0.0022	1900.000005	0.0026
-10	1859.999996	-0.0022	1899.999995	-0.0026
0	1859.999995	-0.0027	1899.999998	-0.0011
10	1860.000005	0.0027	1900.000004	0.0021
20	1860.000003	0.0016	1900.000003	0.0016
30	1859.999997	-0.0016	1899.999996	-0.0021
40	1859.999999	-0.0005	1900.000005	0.0026
50	1860.000004	0.0022	1899.999996	-0.0021
60	1860.000004	0.0022	1899.999998	-0.0011
70	1860.000001	0.0005	1899.999998	-0.0011
75	1860.000001	0.0005	1899.999998	-0.0011

7.7.2 LTE Band 41 (CA 41C)

Channel Bandwidth: 20 MHz+20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 39750 (2506.0MHz) + CH 41490 (2680.0MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	2505.999997	-0.0012	2679.999999	-0.0004
3.80	2505.999997	-0.0012	2680.000005	0.0019
4.37	2505.999997	-0.0012	2679.999998	-0.0007

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 39750 (2506.0MHz) + CH 41490 (2680.0MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	2506.000005	0.0020	2679.999999	-0.0004
-20	2506.000005	0.0020	2680.000005	0.0019
-10	2505.999997	-0.0012	2680.000005	0.0019
0	2505.999998	-0.0008	2679.999999	-0.0004
10	2505.999995	-0.0020	2679.999998	-0.0007
20	2506.000001	0.0004	2679.999999	-0.0004
30	2505.999995	-0.0020	2679.999999	-0.0004
40	2505.999998	-0.0008	2679.999999	-0.0004
50	2506.000005	0.0020	2680.000002	0.0007
60	2506.000002	0.0008	2680.000001	0.0004
70	2506.000004	0.0016	2679.999999	-0.0004
75	2505.999997	-0.0012	2679.999996	-0.0015

7.7.3 LTE Band 42 (CA 42C)

Channel Bandwidth: 20 MHz+20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 42190 (3460.0 MHz) + CH 42990 (3540.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	3459.999999	-0.0003	3539.999996	-0.0011
3.80	3460.000002	0.0006	3539.999995	-0.0014
4.37	3460.000003	0.0009	3539.999998	-0.0006

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 42190 (3460.0 MHz) + CH 42990 (3540.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	3459.999998	-0.0006	3539.999996	-0.0011
-20	3459.999998	-0.0006	3539.999997	-0.0008
-10	3460.000001	0.0003	3540.000004	0.0011
0	3459.999996	-0.0011	3540.000002	0.0006
10	3459.999996	-0.0011	3540.000002	0.0006
20	3460.000005	0.0014	3539.999997	-0.0008
30	3460.000001	0.0003	3539.999995	-0.0014
40	3459.999997	-0.0009	3540.000001	0.0003
50	3459.999998	-0.0006	3540.000004	0.0011
60	3459.999995	-0.0014	3539.999996	-0.0011
70	3459.999996	-0.0011	3540.000005	0.0014
75	3459.999997	-0.0009	3540.000002	0.0006

7.7.4 LTE Band 66 (CA 66B)

Channel Bandwidth: 10 MHz+10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132022 (1715.0 MHz) + CH 132622 (1775.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1715.000001	0.0006	1774.999997	-0.0017
3.80	1714.999996	-0.0023	1775.000004	0.0023
4.37	1714.999998	-0.0012	1775.000002	0.0011

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 132022 (1715.0 MHz) + CH 132622 (1775.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1715.000005	0.0029	1775.000005	0.0028
-20	1714.999999	-0.0006	1775.000005	0.0028
-10	1714.999997	-0.0017	1774.999996	-0.0023
0	1714.999996	-0.0023	1775.000005	0.0028
10	1715.000002	0.0012	1774.999995	-0.0028
20	1714.999996	-0.0023	1775.000004	0.0023
30	1714.999995	-0.0029	1775.000001	0.0006
40	1714.999995	-0.0029	1774.999997	-0.0017
50	1714.999995	-0.0029	1774.999997	-0.0017
60	1715.000003	0.0017	1774.999998	-0.0011
70	1714.999997	-0.0017	1775.000002	0.0011
75	1715.000002	0.0012	1774.999995	-0.0028

7.7.5 LTE Band 66 (CA 66C)

Channel Bandwidth: 20 MHz+20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 132072 (1720.0 MHz) + CH 132572 (1770.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
3.23	1719.999997	-0.0017	1769.999999	-0.0006
3.80	1720.000002	0.0012	1769.999997	-0.0017
4.37	1719.999995	-0.0029	1769.999995	-0.0028

Note: The applicant defined the normal working voltage is from 3.23 to 4.37 Vdc.

Frequency Stability Versus Temperature				
Temperature (℃)	CH 132072 (1720.0 MHz) + CH 132572 (1770.0 MHz)			
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.000004	0.0023	1769.999998	-0.0011
-20	1719.999999	-0.0006	1770.000003	0.0017
-10	1719.999996	-0.0023	1769.999997	-0.0017
0	1720.000004	0.0023	1769.999997	-0.0017
10	1720.000002	0.0012	1769.999996	-0.0023
20	1719.999995	-0.0029	1770.000001	0.0006
30	1720.000004	0.0023	1770.000001	0.0006
40	1720.000002	0.0012	1770.000003	0.0017
50	1720.000003	0.0017	1769.999996	-0.0023
60	1720.000005	0.0029	1770.000001	0.0006
70	1719.999997	-0.0017	1769.999999	-0.0006
75	1720.000003	0.0017	1769.999995	-0.0028

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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