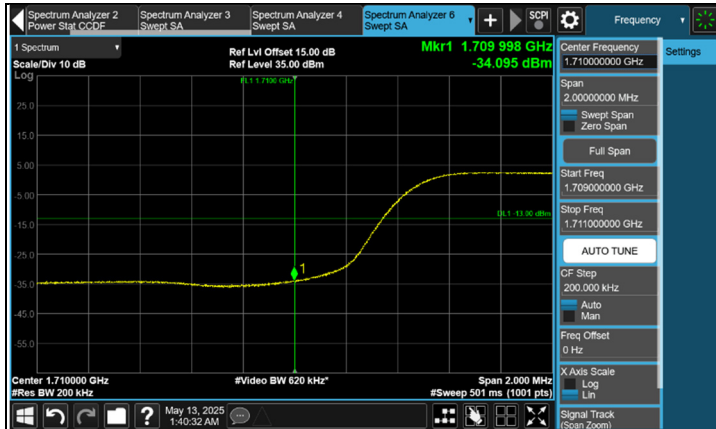
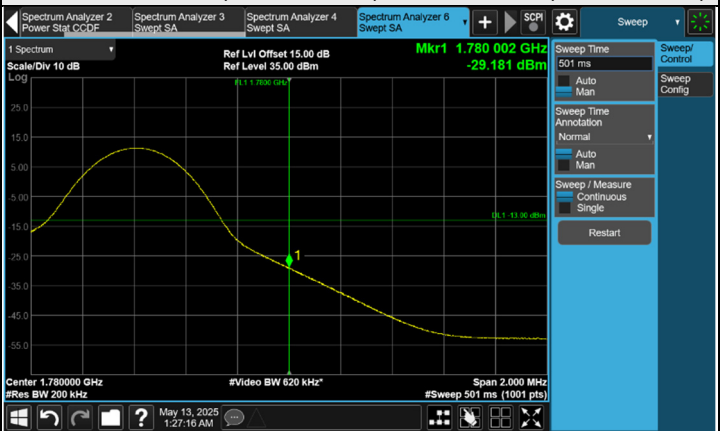
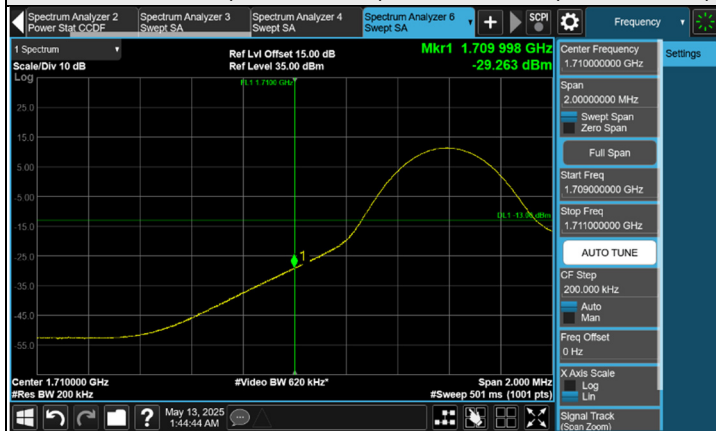




FULL CH 132022(1715.0 MHz) + CH 132121(1724.9 MHz)

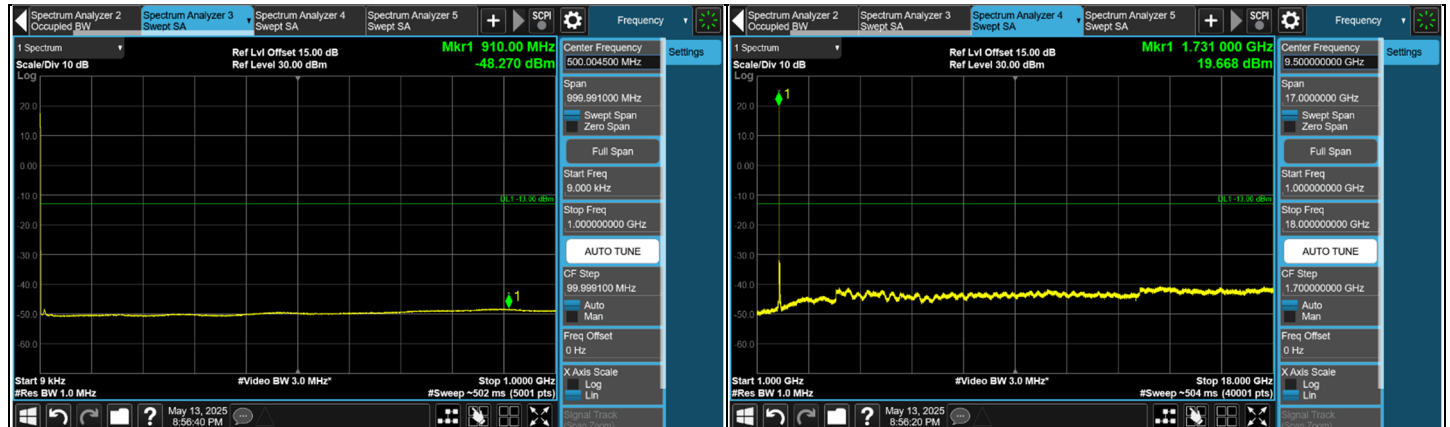
FULL CH 132523(1765.1 MHz) + CH 132622(1775.0 MHz)



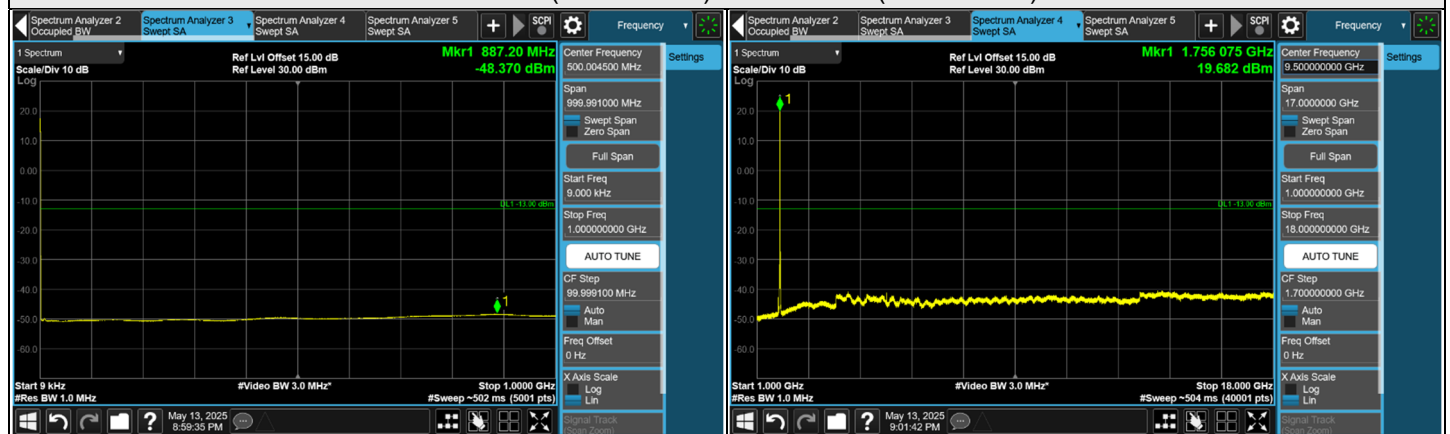
1RB CH 132022(1715.0 MHz) + CH 132121(1724.9 MHz)

1RB CH 132523(1765.1 MHz) + CH 132622(1775.0 MHz)

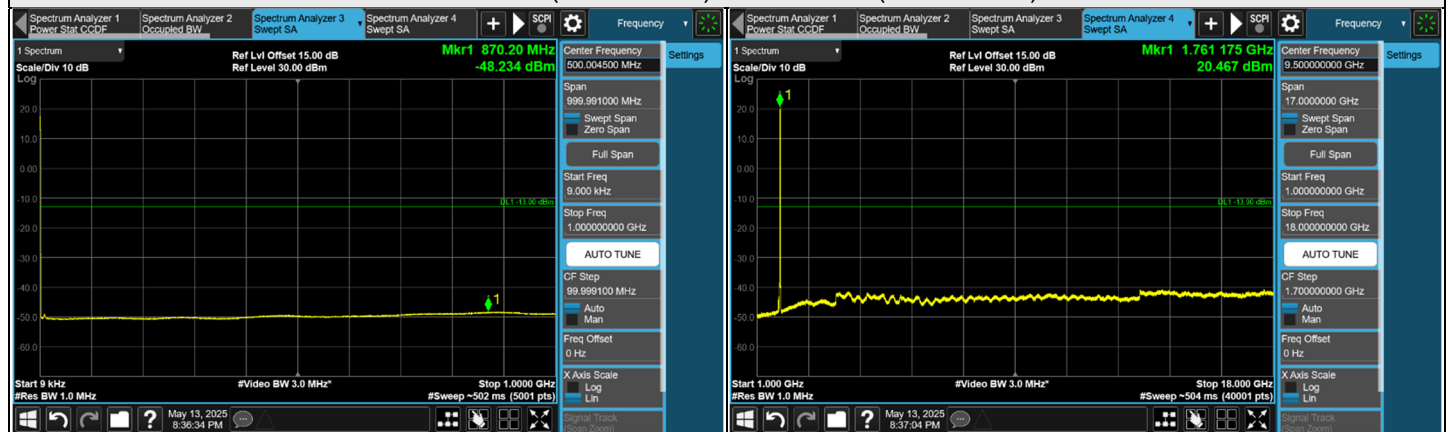
7.4.3 LTE Band 66C



CH 132072(1720.0 MHz) + CH 132270(1739.8 MHz)

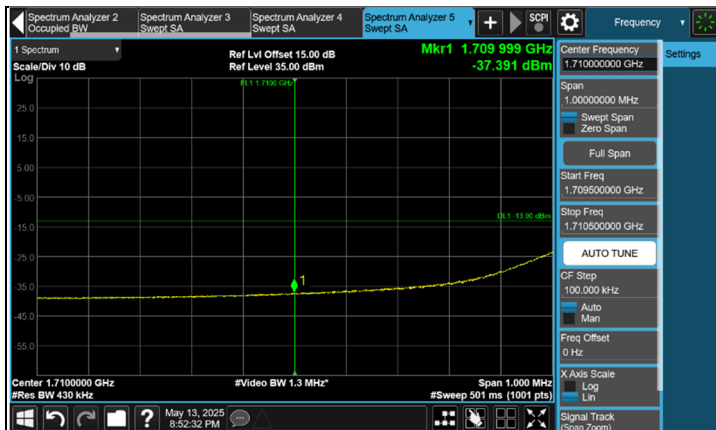


CH 132323(1745.1 MHz) + CH 132521(1764.9 MHz)



CH 132374(1750.2 MHz) + CH 132572(1770.0 MHz)

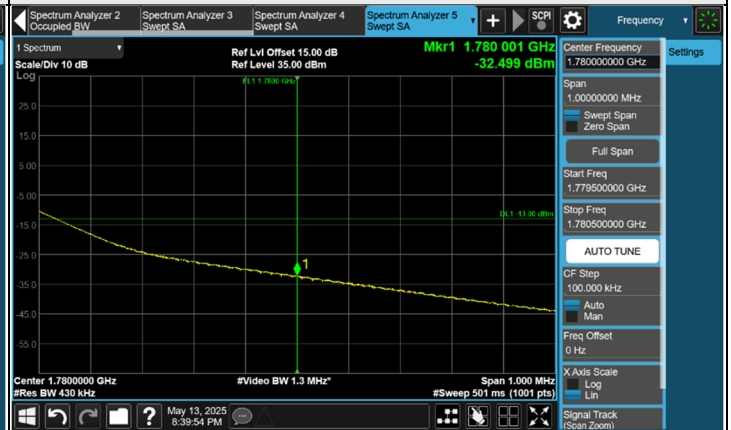
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



FULL CH 132072(1720.0 MHz) + CH 132270(1739.8 MHz)



FULL CH 132374(1750.2 MHz) + CH 132572(1770.0 MHz)



1RB CH 132072(1720.0 MHz) + CH 132270(1739.8 MHz)

1RB CH 132374(1750.2 MHz) + CH 132572(1770.0 MHz)

7.5 Radiated Spurious Emissions below 1GHz

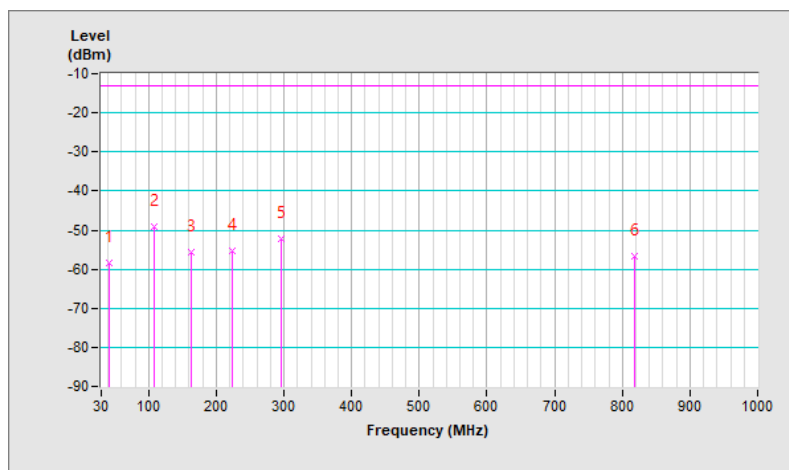
7.5.1 LTE Band 2C

RF Mode	LTE Band 2C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 18902(1880.2 MHz) + 19100(1900.0 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	42.61	-58.50	-13.00	-45.50	1.00 H	258	50.02	-108.52
2	108.57	-49.21	-13.00	-36.21	1.00 H	245	62.24	-111.45
3	163.86	-55.80	-13.00	-42.80	1.50 H	275	52.54	-108.34
4	224.00	-55.30	-13.00	-42.30	2.00 H	286	56.14	-111.44
5	295.78	-52.21	-13.00	-39.21	1.00 H	114	55.45	-107.66
6	818.61	-56.53	-13.00	-43.53	1.50 H	11	40.66	-97.19

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.

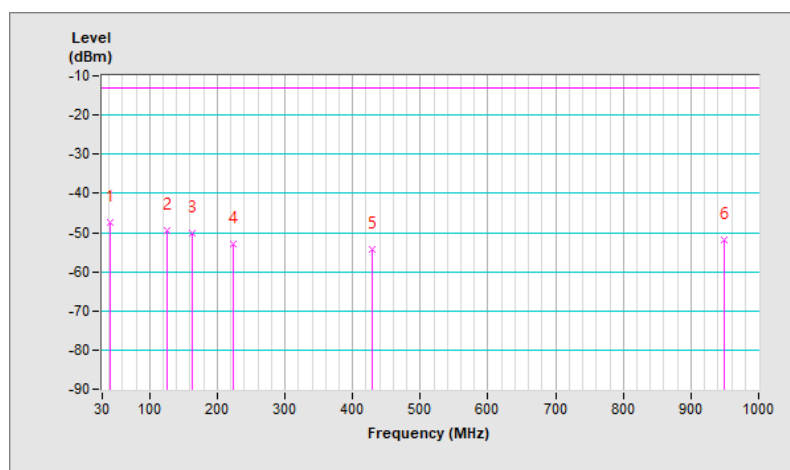


RF Mode	LTE Band 2C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 18902(1880.2 MHz) + 19100(1900.0 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	42.61	-47.26	-13.00	-34.26	1.50 V	309	61.26	-108.52
2	125.06	-49.48	-13.00	-36.48	1.00 V	193	60.33	-109.81
3	162.89	-50.13	-13.00	-37.13	2.00 V	190	58.15	-108.28
4	223.03	-52.88	-13.00	-39.88	1.00 V	143	58.60	-111.48
5	428.67	-54.41	-13.00	-41.41	2.00 V	138	49.83	-104.24
6	949.56	-52.03	-13.00	-39.03	1.00 V	9	43.15	-95.18

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.



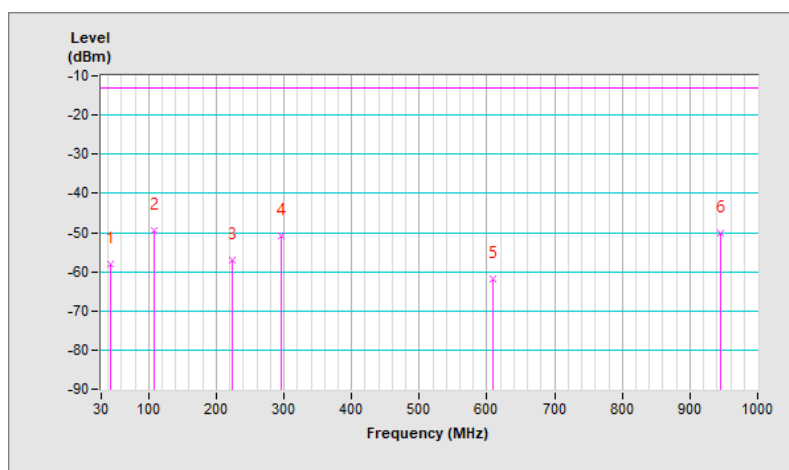
7.5.2 LTE Band 66B

RF Mode	LTE Band 66B Channel Bandwidth: 10 MHz + 10 MHz	Channel	CH 132523(1765.1 MHz) + 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	22 °C, 68 % RH
Tested By	Edison Lee		

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	43.58	-57.94	-13.00	-44.94	1.00 H	65	50.59	-108.53
2	108.57	-49.45	-13.00	-36.45	1.00 H	103	62.00	-111.45
3	224.00	-57.00	-13.00	-44.00	2.00 H	80	54.44	-111.44
4	295.78	-50.88	-13.00	-37.88	1.50 H	171	56.78	-107.66
5	609.09	-61.69	-13.00	-48.69	1.50 H	42	38.49	-100.18
6	944.71	-50.29	-13.00	-37.29	1.00 H	32	44.97	-95.26

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.

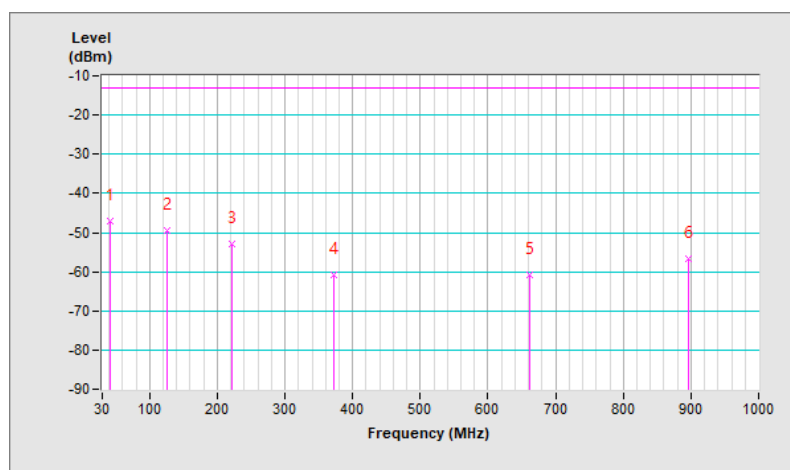


RF Mode	LTE Band 66B Channel Bandwidth: 10 MHz + 10 MHz	Channel	CH 132523(1765.1 MHz) + 132622(1775.0 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	42.61	-47.22	-13.00	-34.22	1.50 V	158	61.30	-108.52
2	126.03	-49.48	-13.00	-36.48	1.00 V	174	60.28	-109.76
3	221.09	-53.08	-13.00	-40.08	2.00 V	155	58.45	-111.53
4	371.44	-60.69	-13.00	-47.69	1.00 V	162	45.14	-105.83
5	661.47	-60.85	-13.00	-47.85	2.00 V	176	38.63	-99.48
6	897.18	-56.57	-13.00	-43.57	1.00 V	352	39.46	-96.03

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.



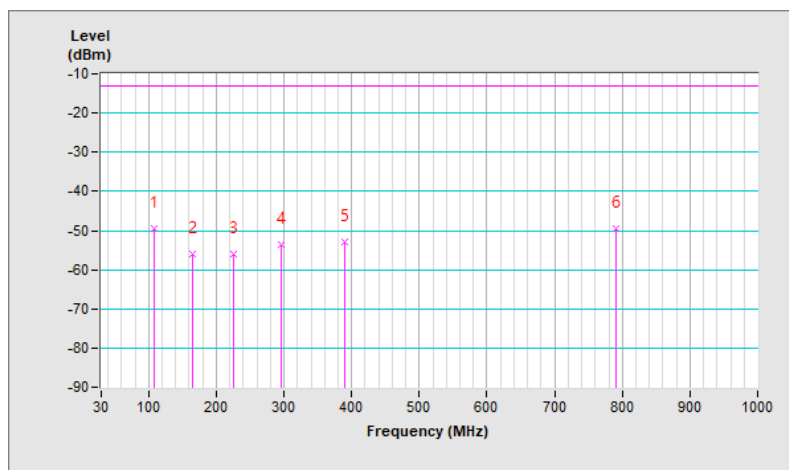
7.5.3 LTE Band 66C

RF Mode	LTE Band 66C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 132323(1745.1 MHz) + 132521(1764.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	108.57	-49.43	-13.00	-36.43	2.00 H	289	62.02	-111.45
2	164.83	-56.16	-13.00	-43.16	1.00 H	285	52.19	-108.35
3	224.97	-55.93	-13.00	-42.93	1.00 H	312	55.49	-111.42
4	296.75	-53.66	-13.00	-40.66	1.50 H	349	53.97	-107.63
5	389.87	-52.78	-13.00	-39.78	1.00 H	242	52.58	-105.36
6	791.45	-49.61	-13.00	-36.61	1.50 H	318	47.77	-97.38

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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.

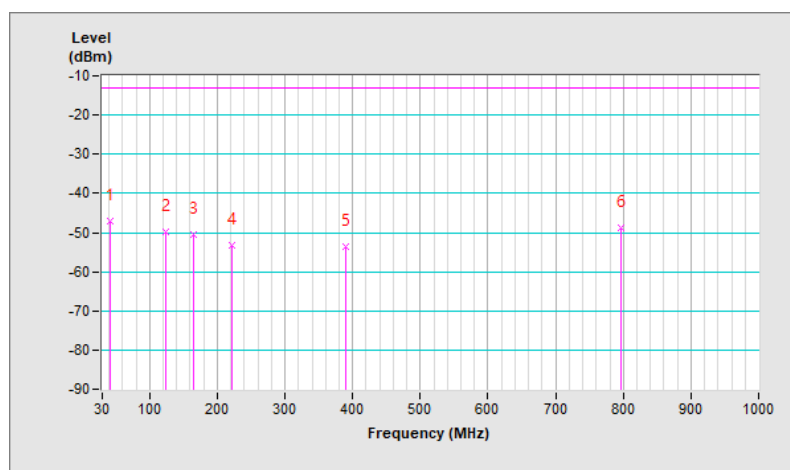


RF Mode	LTE Band 66C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 132323(1745.1 MHz) + 132521(1764.9 MHz)
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	42.61	-46.97	-13.00	-33.97	1.00 V	340	61.55	-108.52
2	124.09	-49.93	-13.00	-36.93	1.00 V	164	60.11	-110.04
3	164.83	-50.65	-13.00	-37.65	1.50 V	160	57.70	-108.35
4	221.09	-53.26	-13.00	-40.26	2.00 V	164	58.27	-111.53
5	389.87	-53.68	-13.00	-40.68	1.00 V	110	51.68	-105.36
6	797.27	-48.63	-13.00	-35.63	1.00 V	235	48.70	-97.33

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 2C

RF Mode	LTE Band 2C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 18700(1860.0 MHz) + 18898(1879.8 MHz)
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	-48.09	-13.00	-35.09	1.79 H	197	46.44	-94.53
2	3759.60	-48.23	-13.00	-35.23	1.75 H	190	45.98	-94.21
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	3720.00	-47.33	-13.00	-34.33	1.57 V	340	47.20	-94.53
2	3759.60	-47.21	-13.00	-34.21	1.56 V	344	47.00	-94.21

Remarks:

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

RF Mode	LTE Band 2C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 18801(1870.1 MHz) + 18999(1889.9 MHz)
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	3740.02	-47.55	-13.00	-34.55	1.79 H	195	46.80	-94.35
2	3779.80	-47.81	-13.00	-34.81	1.77 H	201	46.30	-94.11
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	3740.02	-46.55	-13.00	-33.55	1.66 V	344	47.80	-94.35
2	3779.80	-46.91	-13.00	-33.91	1.67 V	321	47.20	-94.11

Remarks:

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

RF Mode	LTE Band 2C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 18902(1880.2 MHz) + 19100(1900.0 MHz)
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	-47.83	-13.00	-34.83	1.71 H	201	46.38	-94.21
2	3800.00	-47.80	-13.00	-34.80	1.76 H	196	46.23	-94.03
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	-46.51	-13.00	-33.51	1.68 V	350	47.70	-94.21
2	3800.00	-46.70	-13.00	-33.70	1.69 V	309	47.33	-94.03

Remarks:

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

7.6.2 LTE Band 66B

RF Mode	LTE Band 66B Channel Bandwidth: 10 MHz + 10 MHz	Channel	CH 132022(1715.0 MHz) + 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	22 °C, 68 % RH
Tested By	Edison Lee		

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	-47.63	-13.00	-34.63	1.29 H	245	48.13	-95.76
2	3449.80	-47.97	-13.00	-34.97	1.26 H	238	47.74	-95.71
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	-46.55	-13.00	-33.55	2.16 V	80	49.21	-95.76
2	3449.80	-47.20	-13.00	-34.20	2.11 V	87	48.51	-95.71

Remarks:

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

RF Mode	LTE Band 66B Channel Bandwidth: 10 MHz + 10 MHz	Channel	CH 132373(1750.1 MHz) + 132472(1760.0 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	3500.02	-47.50	-13.00	-34.50	1.32 H	245	48.21	-95.71
2	3520.00	-47.76	-13.00	-34.76	1.25 H	235	47.88	-95.64
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	3500.02	-46.63	-13.00	-33.63	2.17 V	82	49.08	-95.71
2	3520.00	-47.05	-13.00	-34.05	2.10 V	95	48.59	-95.64

Remarks:

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

RF Mode	LTE Band 66B Channel Bandwidth: 10 MHz + 10 MHz	Channel	CH 132523(1765.1 MHz) + 132622(1775.0 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	-46.92	-13.00	-33.92	1.38 H	244	48.67	-95.59
2	3550.00	-47.27	-13.00	-34.27	1.32 H	243	48.25	-95.52
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	-46.21	-13.00	-33.21	2.20 V	86	49.38	-95.59
2	3550.00	-46.76	-13.00	-33.76	2.17 V	89	48.76	-95.52

Remarks:

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

7.6.3 LTE Band 66C

RF Mode	LTE Band 66C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 132072(1720.0 MHz) + 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	22 °C, 68 % RH
Tested By	Edison Lee		

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	-47.17	-13.00	-34.17	1.21 H	248	48.56	-95.73
2	3479.60	-47.77	-13.00	-34.77	1.25 H	250	47.95	-95.72
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	3440.00	-46.37	-13.00	-33.37	2.18 V	95	49.36	-95.73
2	3479.60	-47.03	-13.00	-34.03	2.11 V	90	48.69	-95.72

Remarks:

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

RF Mode	LTE Band 66C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 132323(1745.1 MHz) + 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	22 °C, 68 % RH
Tested By	Edison Lee		

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	-47.66	-13.00	-34.66	1.38 H	251	48.06	-95.72
2	3529.80	-48.00	-13.00	-35.00	1.25 H	227	47.59	-95.59
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	-46.28	-13.00	-33.28	2.21 V	89	49.44	-95.72
2	3529.80	-46.70	-13.00	-33.70	2.07 V	79	48.89	-95.59

Remarks:

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

RF Mode	LTE Band 66C Channel Bandwidth: 20 MHz + 20 MHz	Channel	CH 132374(1750.2 MHz) + 132572(1770.0 MHz)
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 68 % RH
Tested By	Edison Lee		

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	-47.72	-13.00	-34.72	1.32 H	247	47.99	-95.71
2	3540.00	-48.17	-13.00	-35.17	1.30 H	208	47.39	-95.56
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	-46.39	-13.00	-33.39	2.40 V	103	49.32	-95.71
2	3540.00	-47.04	-13.00	-34.04	2.44 V	96	48.52	-95.56

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
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, 60% RH	Tested By:	Willy Cheng
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7.7.1 LTE Band 2C

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 18700(1860.0 MHz) + 18898(1879.8 MHz)		CH18902 (1880.2 MHz) + 19100(1900.0 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
102	1859.999999	-0.0005	1899.999996	-0.0021
120	1860.000004	0.0022	1900.000002	0.0011
138	1860.000002	0.0011	1899.999999	-0.0005

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18700(1860.0 MHz) + 18898(1879.8 MHz)		CH18902 (1880.2 MHz) + 19100(1900.0 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1860.000001	0.0005	1899.999998	-0.0011
-20	1860.000003	0.0016	1899.999999	-0.0005
-10	1860.000002	0.0011	1899.999999	-0.0005
0	1859.999999	-0.0005	1900.000002	0.0011
10	1860.000001	0.0005	1900.000002	0.0011
20	1859.999998	-0.0011	1900.000003	0.0016
30	1859.999996	-0.0022	1900.000004	0.0021
40	1859.999999	-0.0005	1899.999997	-0.0016
50	1859.999997	-0.0016	1900.000001	0.0005

7.7.2 LTE Band 66B

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 132022(1715.0 MHz) + 132121(1724.9 MHz)		CH 132523(1765.1 MHz) + 132622(1775.0 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
102	1715.000003	0.002	1775.000002	0.001
120	1715.000004	0.002	1775.000002	0.001
138	1715.000004	0.002	1775.000003	0.002

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132022(1715.0 MHz) + 132121(1724.9 MHz)		CH 132523(1765.1 MHz) + 132622(1775.0 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1715.000003	0.002	1774.999999	-0.001
-20	1715.000004	0.002	1774.999997	-0.002
-10	1715.000001	0.001	1775.000004	0.002
0	1714.999999	-0.001	1775.000002	0.001
10	1715.000002	0.001	1774.999999	-0.001
20	1714.999997	-0.002	1775.000003	0.002
30	1714.999999	-0.001	1774.999999	-0.001
40	1714.999999	-0.001	1775.000004	0.002
50	1715.000004	0.002	1775.000002	0.001

7.7.3 LTE Band 66C

Frequency Stability Versus Voltage				
Voltage (Vac)	CH 132072(1720.0 MHz) + 132270(1739.8 MHz)		CH 132374(1750.2 MHz) + 132572(1770.0 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
102	1720.000003	0.0017	1769.999996	-0.0023
120	1719.999998	-0.0012	1769.999999	-0.0006
138	1719.999996	-0.0023	1770.000001	0.0006

Note: The applicant defined the normal working voltage is from 102 to 138 Vac.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 132072(1720.0 MHz) + 132270(1739.8 MHz)		CH 132374(1750.2 MHz) + 132572(1770.0 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.000001	0.0006	1770.000003	0.0017
-20	1719.999997	-0.0017	1770.000002	0.0011
-10	1719.999998	-0.0012	1770.000001	0.0006
0	1719.999998	-0.0012	1769.999999	-0.0006
10	1720.000002	0.0012	1769.999998	-0.0011
20	1720.000001	0.0006	1770.000003	0.0017
30	1720.000002	0.0012	1770.000004	0.0023
40	1719.999998	-0.0012	1769.999996	-0.0023
50	1719.999997	-0.0017	1769.999999	-0.0006

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.

If you have any comments, please feel free to contact us at the following:

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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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