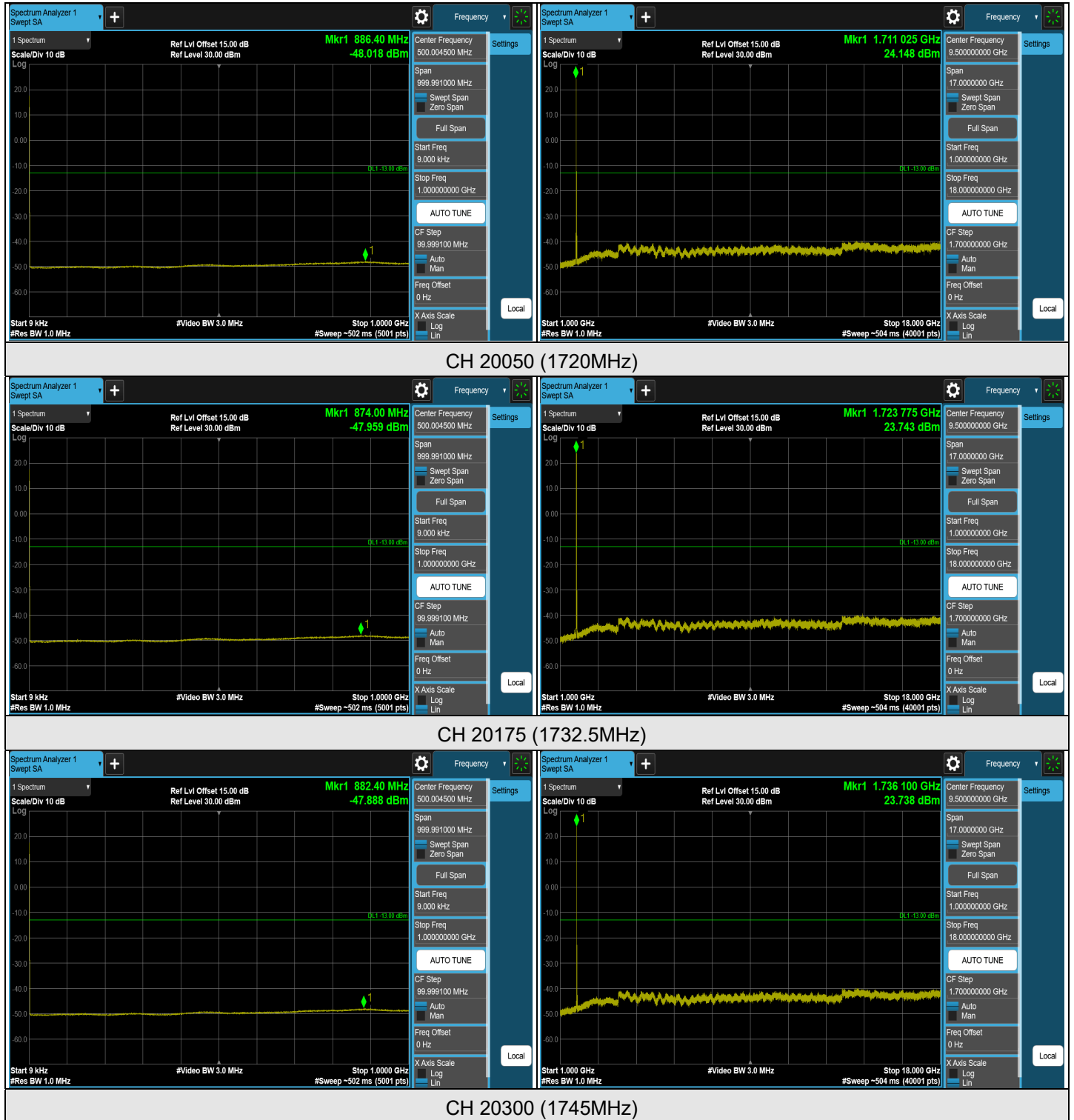


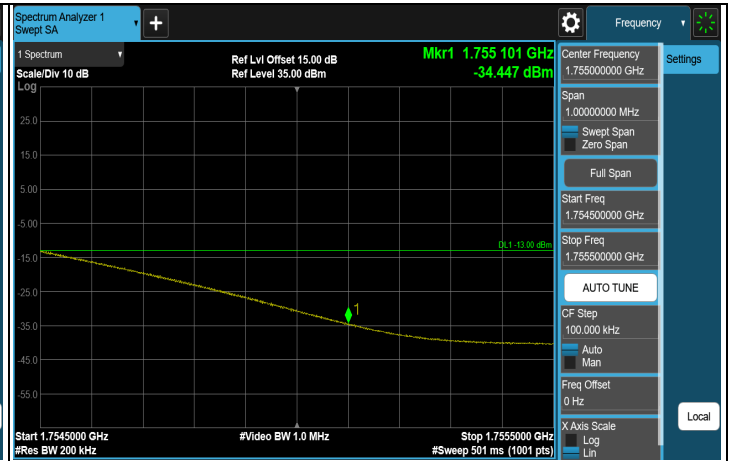
LTE Band 4, Channel Bandwidth: 20 MHz



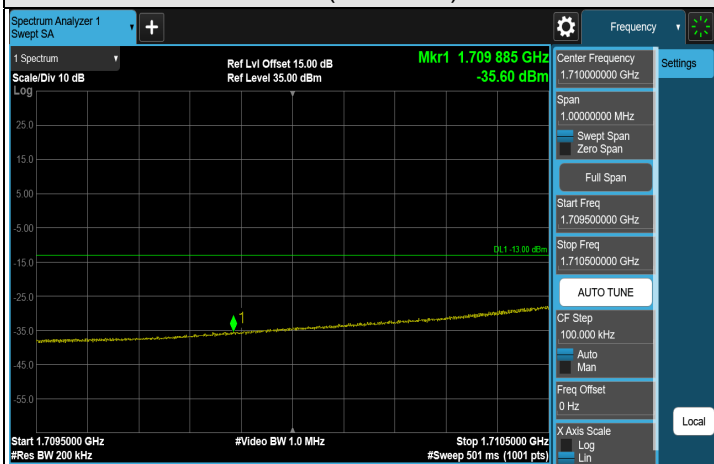
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



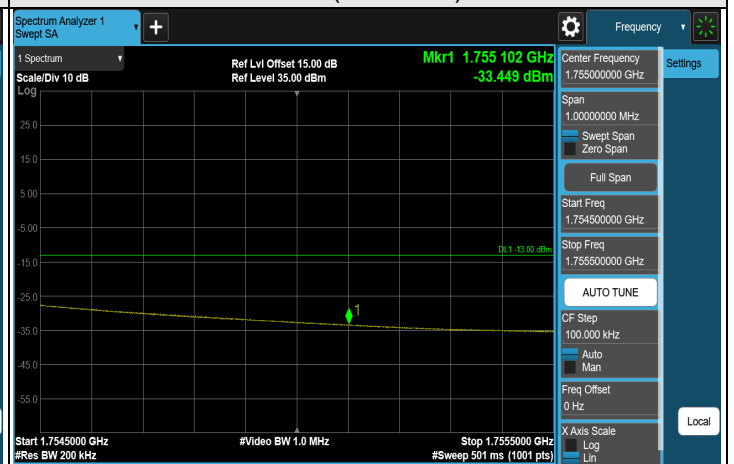
1RB (1720MHz)



1RB (1745MHz)



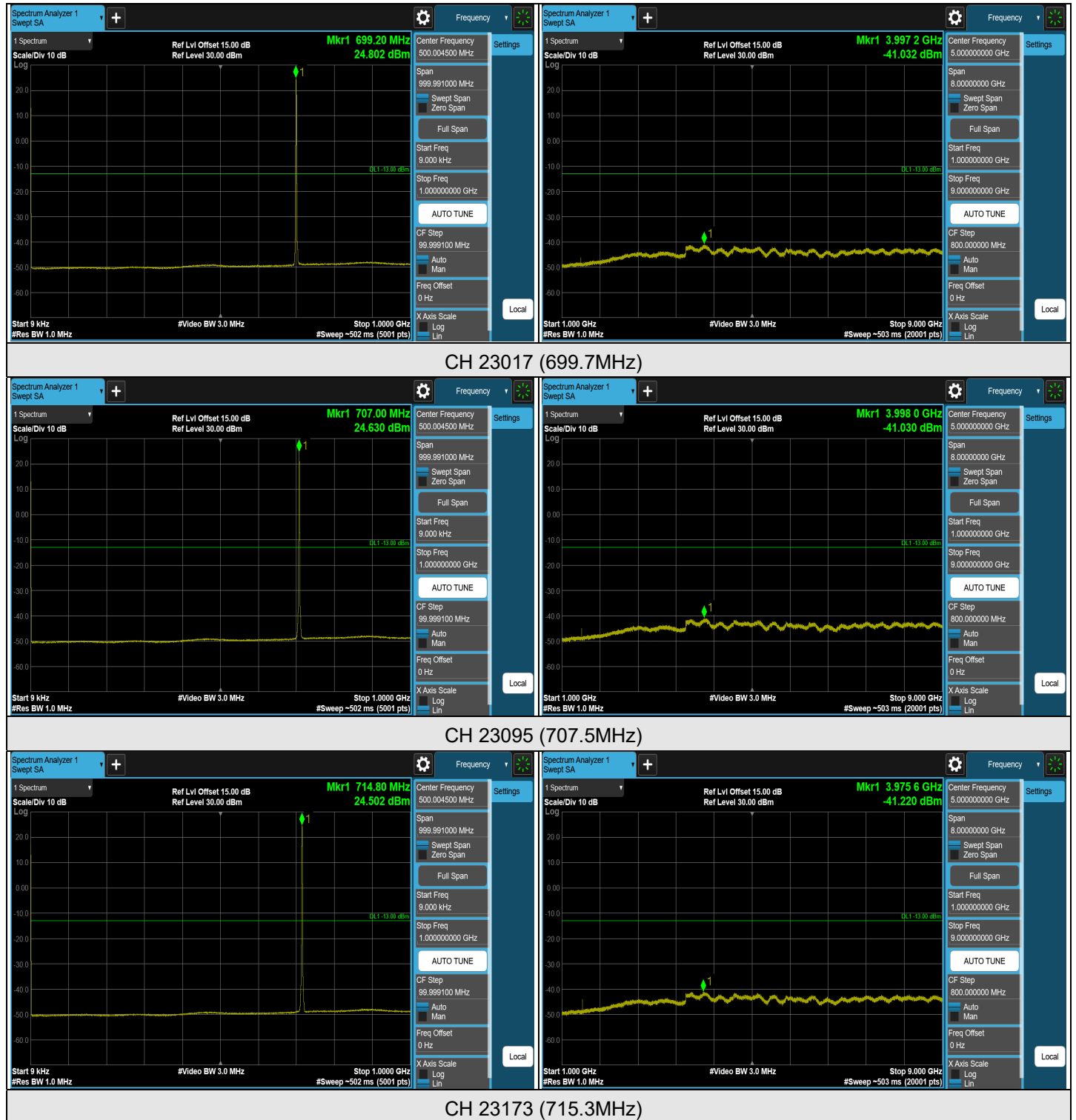
FULL (1720MHz)



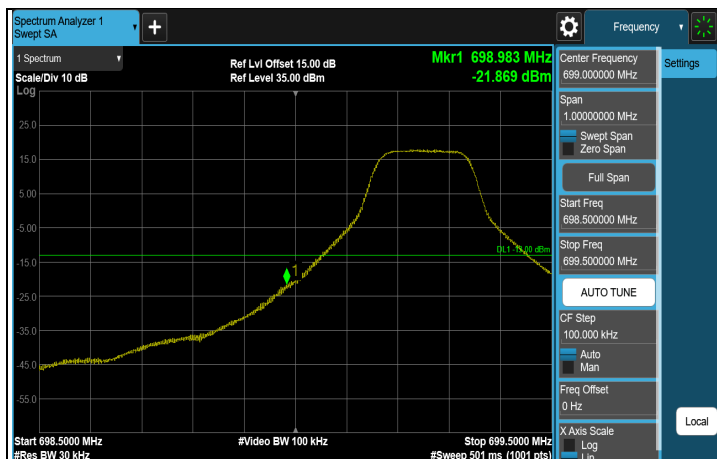
FULL (1745MHz)

7.5.5 LTE Band 12

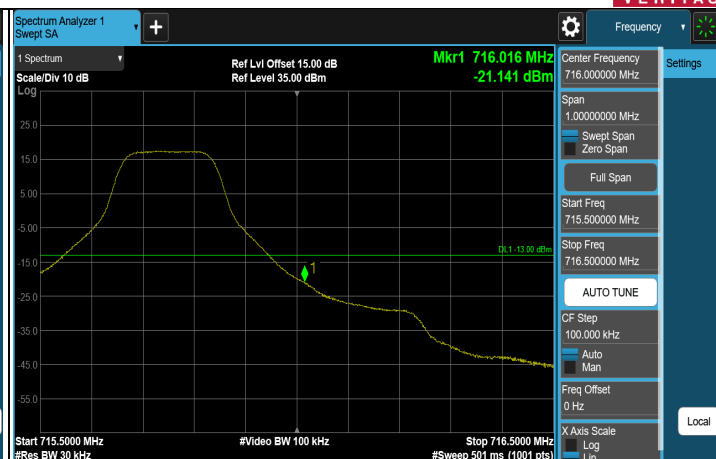
LTE Band 12, Channel Bandwidth: 1.4 MHz



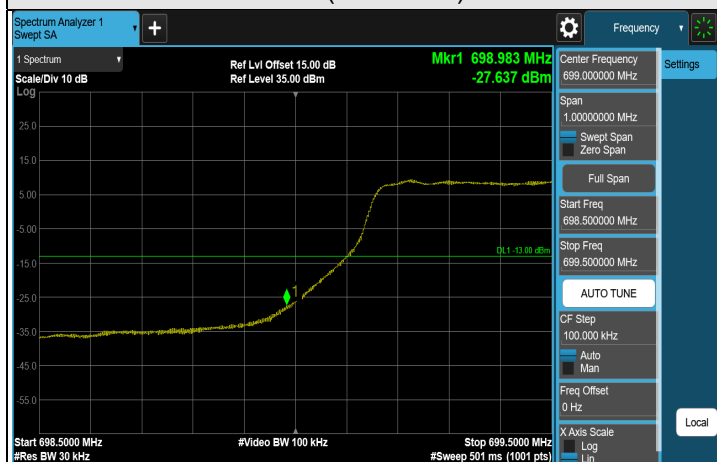
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



1RB (699.7MHz)



1RB (715.3MHz)

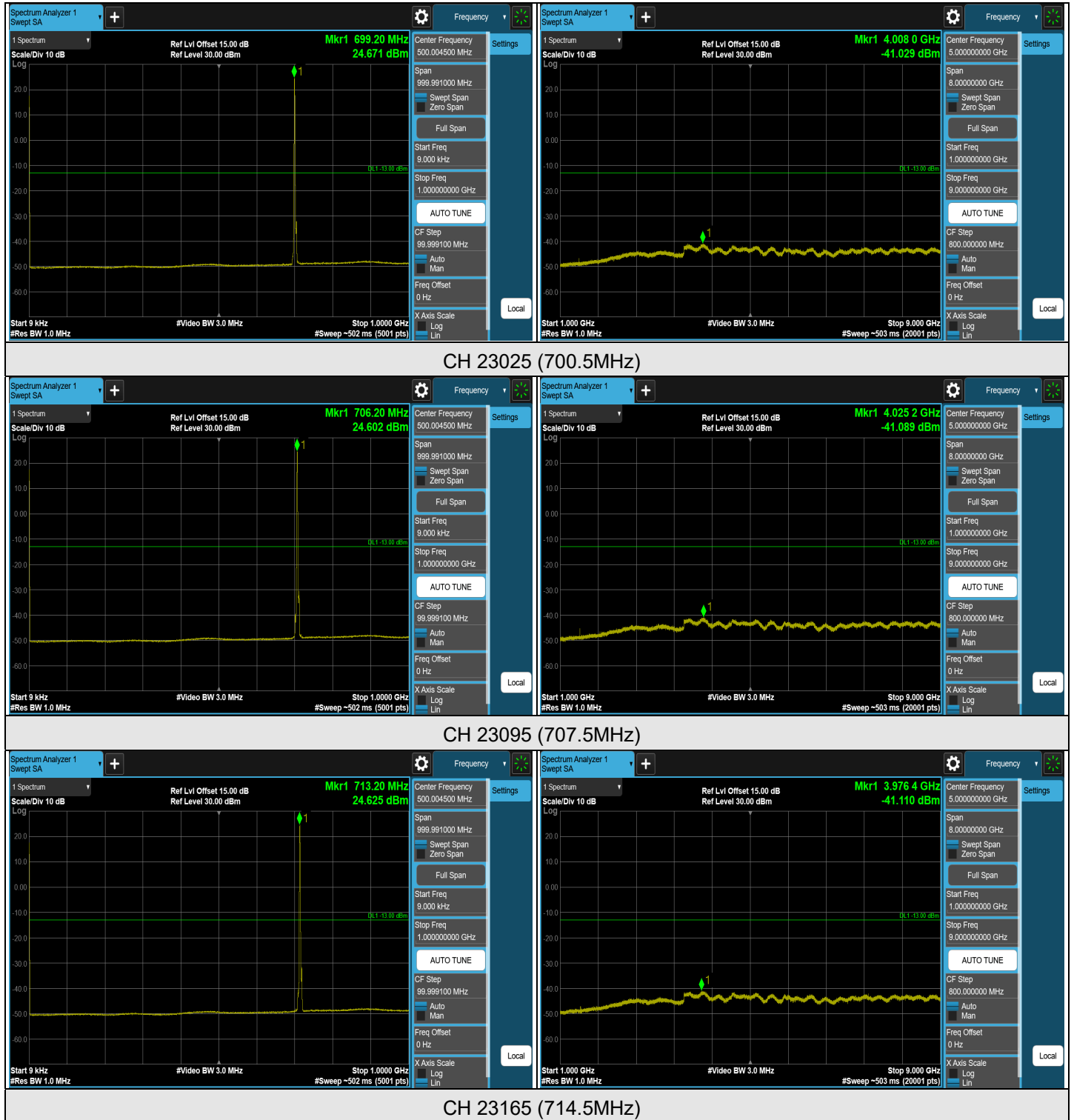


FULL (699.7MHz)

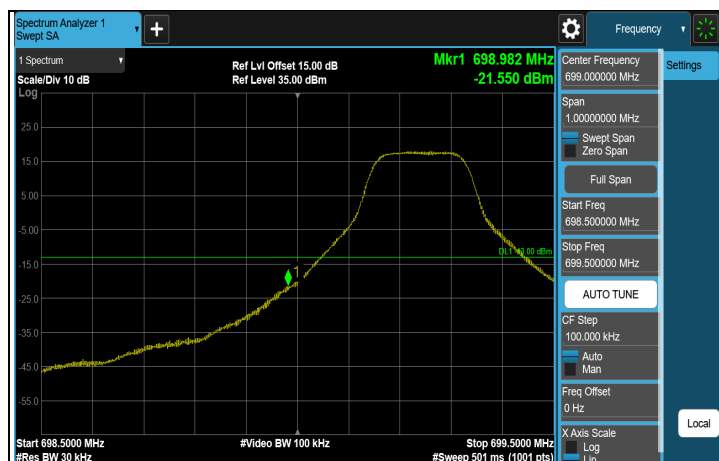


FULL (715.3MHz)

LTE Band 12, Channel Bandwidth: 3 MHz



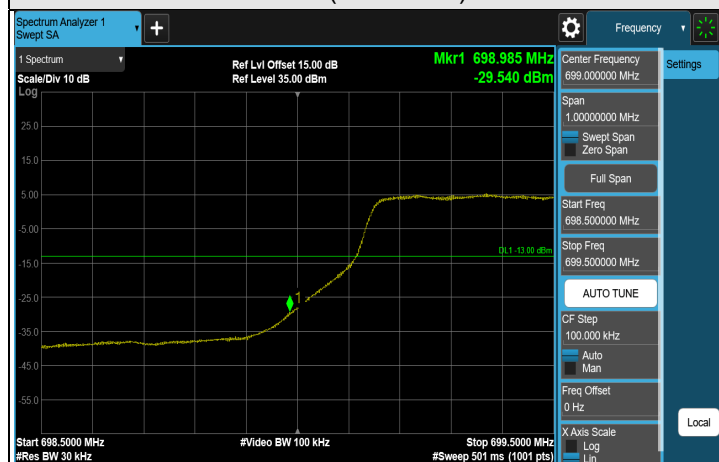
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



1RB (700.5MHz)



1RB (714.5MHz)



FULL (700.5MHz)



FULL (714.5MHz)

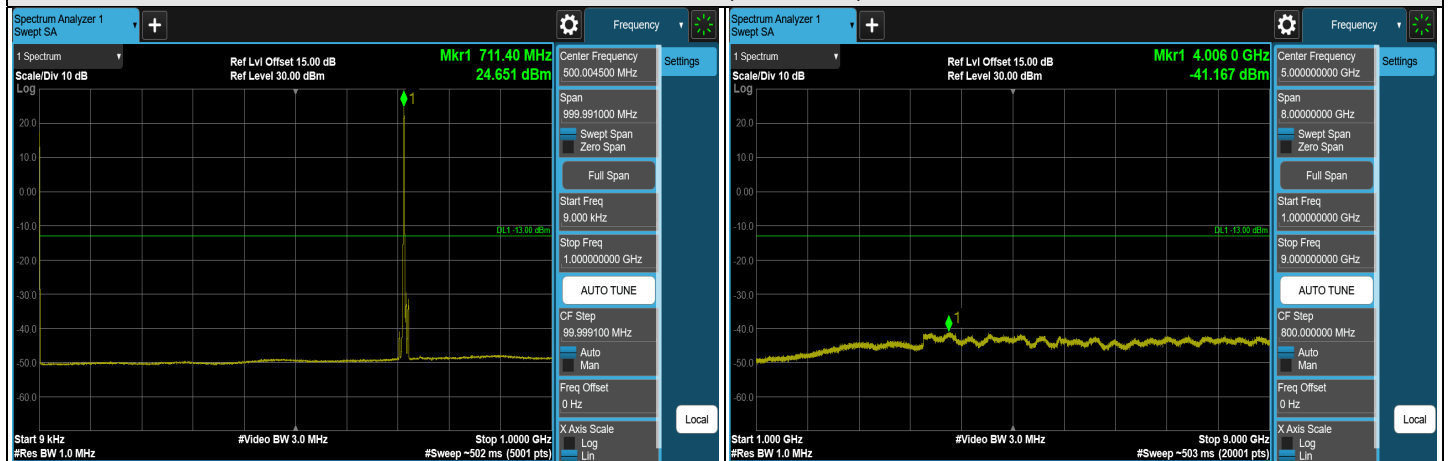
LTE Band 12, Channel Bandwidth: 5 MHz



CH 23035 (701.5MHz)

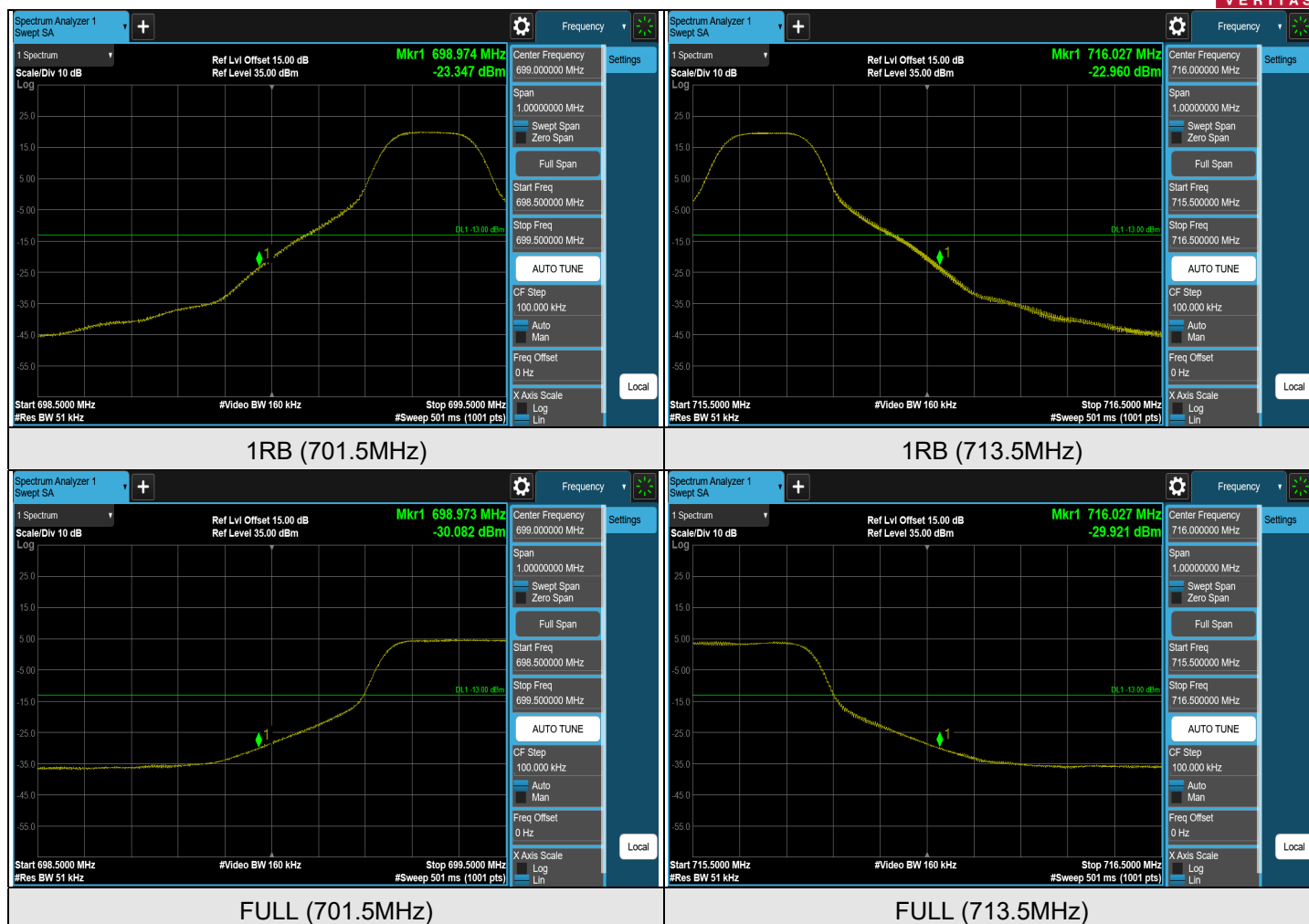


CH 23095 (707.5MHz)

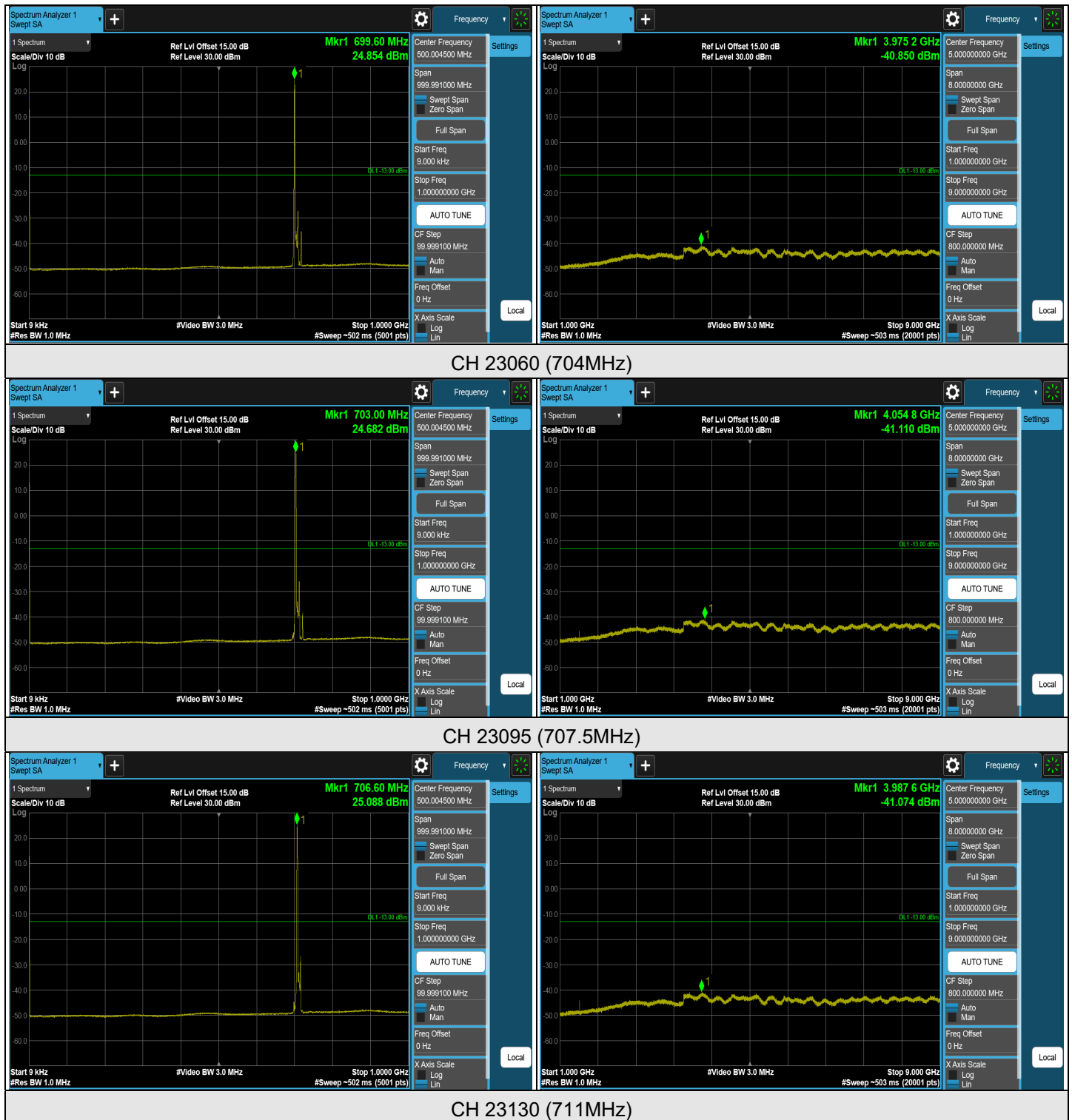


CH 23155 (713.5MHz)

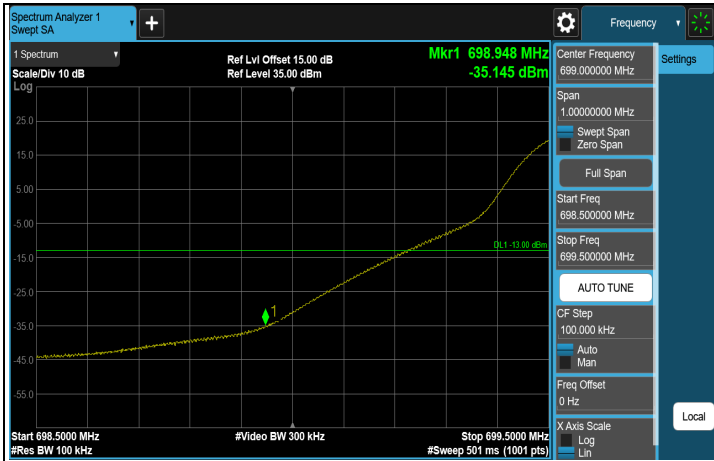
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



LTE Band 12, Channel Bandwidth: 10 MHz



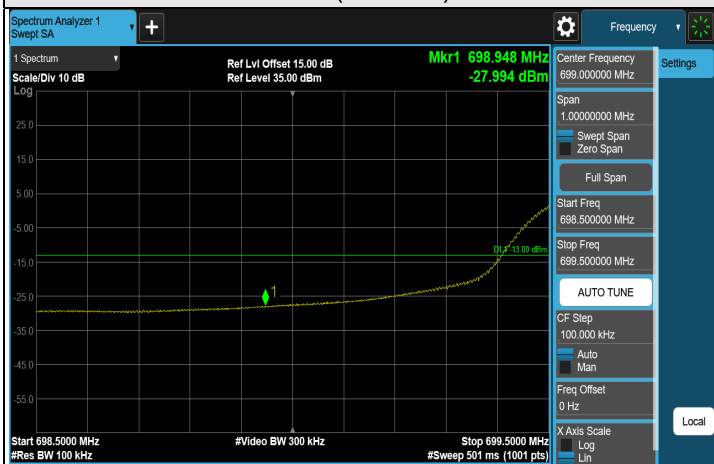
Note: The signal at 9 kHz is IF signal from spectrum analyzer.



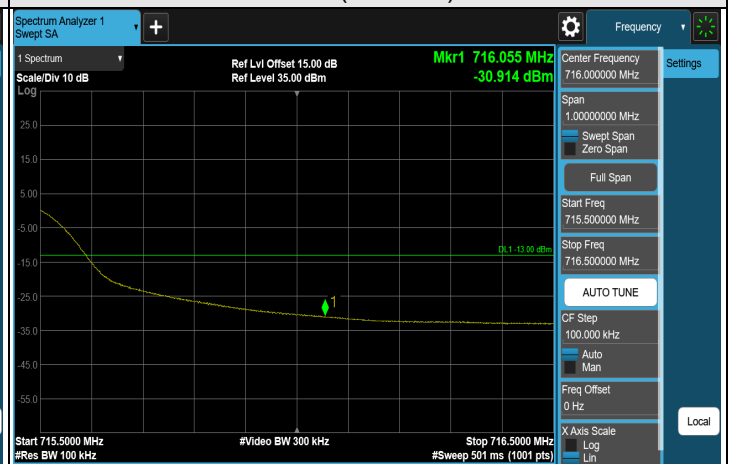
1RB (704MHz)



1RB (711MHz)



FULL (704MHz)



FULL (711MHz)

7.6 Radiated Spurious Emissions below 1GHz

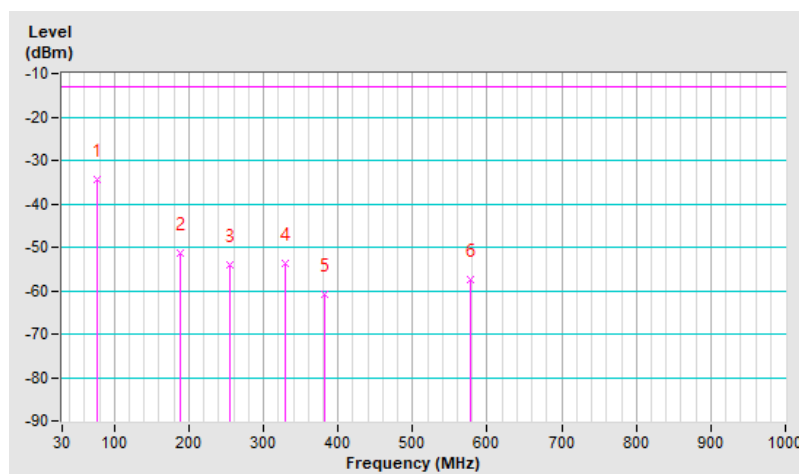
7.6.1 WCDMA Band 2

RF Mode	WCDMA Band II	Channel	CH 9400 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% 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	76.39	-34.42	-13.00	-21.42	1.01 H	72	72.78	-107.20
2	187.45	-51.30	-13.00	-38.30	1.01 H	149	54.82	-106.12
3	254.93	-54.19	-13.00	-41.19	1.01 H	181	50.15	-104.34
4	329.43	-53.71	-13.00	-40.71	1.01 H	7	48.33	-102.04
5	381.45	-60.90	-13.00	-47.90	1.50 H	268	40.32	-101.22
6	576.86	-57.29	-13.00	-44.29	1.01 H	95	40.16	-97.45

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 EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

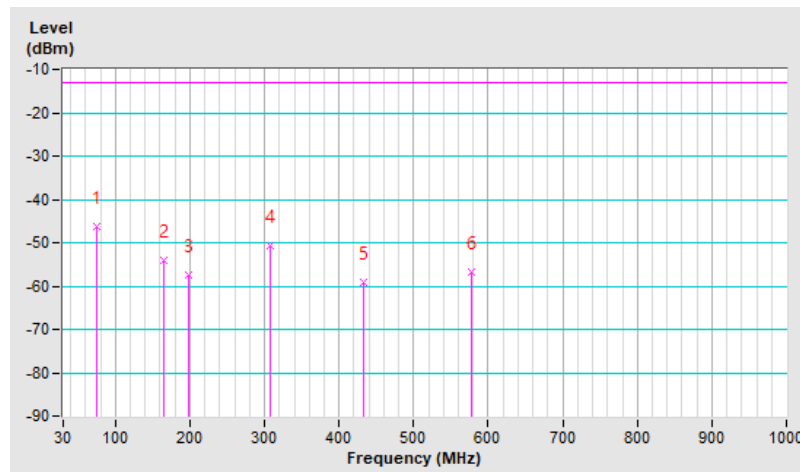


RF Mode	WCDMA Band II	Channel	CH 9400 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% RH
Tested By	Edison Lee		

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	74.99	-46.40	-13.00	-33.40	1.00 V	293	60.28	-106.68
2	164.96	-53.93	-13.00	-40.93	1.00 V	50	50.07	-104.00
3	198.70	-57.45	-13.00	-44.45	1.50 V	234	49.36	-106.81
4	306.94	-50.83	-13.00	-37.83	1.50 V	6	51.71	-102.54
5	433.46	-59.16	-13.00	-46.16	1.00 V	344	41.07	-100.23
6	576.86	-56.67	-13.00	-43.67	1.00 V	163	40.78	-97.45

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 EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



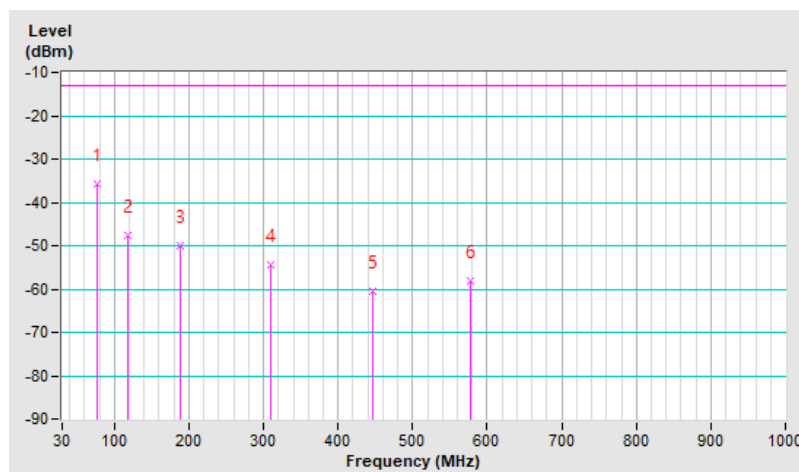
7.6.2 WCDMA Band 4

RF Mode	WCDMA Band IV	Channel	CH 1513 : 1752.6 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% 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	77.80	-35.92	-13.00	-22.92	1.50 H	145	71.67	-107.59
2	118.57	-47.50	-13.00	-34.50	1.00 H	229	58.78	-106.28
3	188.86	-49.94	-13.00	-36.94	1.00 H	44	56.37	-106.31
4	309.75	-54.42	-13.00	-41.42	1.00 H	243	48.05	-102.47
5	447.52	-60.37	-13.00	-47.37	1.00 H	318	39.60	-99.97
6	576.86	-58.17	-13.00	-45.17	2.00 H	77	39.28	-97.45

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 EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

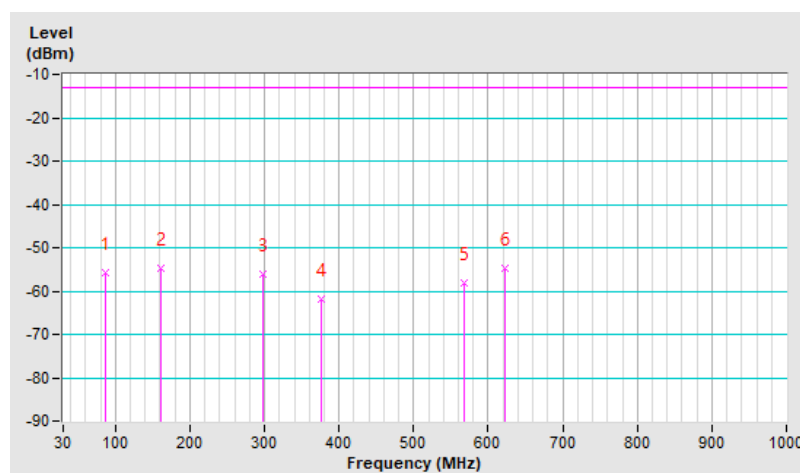


RF Mode	WCDMA Band IV	Channel	CH 1513 : 1752.6 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% RH
Tested By	Edison Lee		

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	87.64	-55.64	-13.00	-42.64	2.00 V	192	53.89	-109.53
2	160.74	-54.86	-13.00	-41.86	1.00 V	303	48.95	-103.81
3	298.51	-56.05	-13.00	-43.05	1.00 V	64	46.71	-102.76
4	375.83	-61.76	-13.00	-48.76	1.50 V	27	39.53	-101.29
5	568.42	-58.09	-13.00	-45.09	1.00 V	176	39.71	-97.80
6	623.25	-54.59	-13.00	-41.59	1.00 V	265	41.50	-96.09

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 EIRP levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



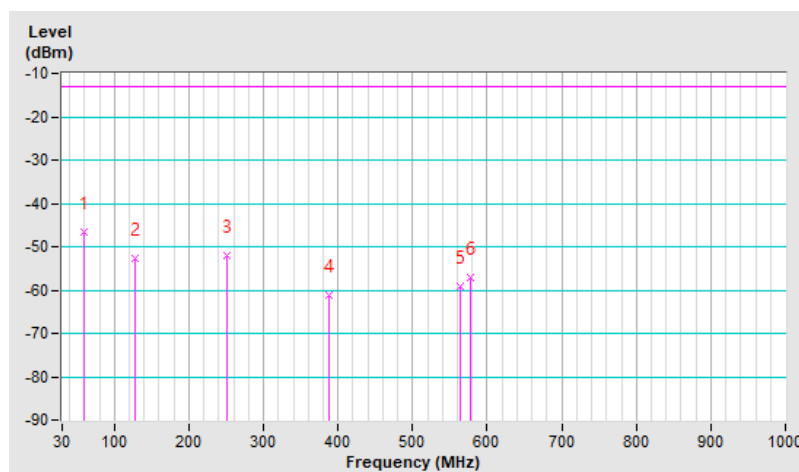
7.6.3 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% 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	59.52	-46.49	-13.00	-33.49	1.50 H	284	57.78	-104.27
2	127.00	-52.67	-13.00	-39.67	1.00 H	93	52.91	-105.58
3	250.71	-52.17	-13.00	-39.17	2.00 H	189	52.29	-104.46
4	387.07	-61.13	-13.00	-48.13	1.00 H	7	40.01	-101.14
5	564.20	-59.12	-13.00	-46.12	1.00 H	115	38.75	-97.87
6	576.86	-57.12	-13.00	-44.12	1.00 H	132	40.33	-97.45

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.

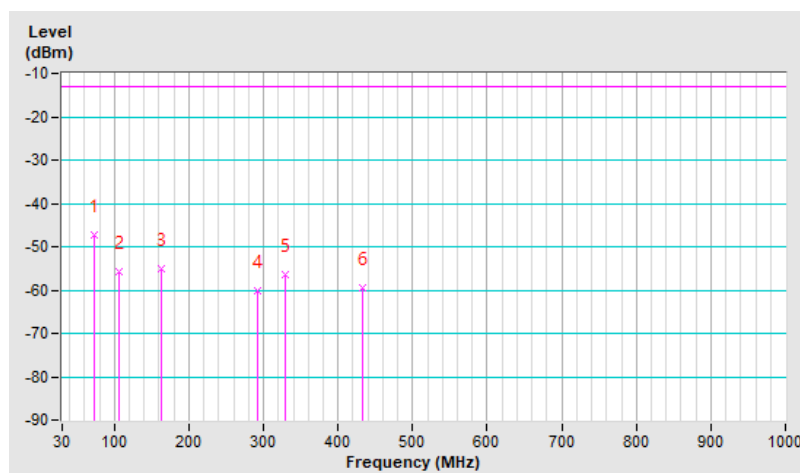


RF Mode	LTE Band 2 Channel Bandwidth: 20MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% RH
Tested By	Edison Lee		

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	73.58	-47.25	-13.00	-34.25	2.00 V	86	59.27	-106.52
2	105.91	-55.77	-13.00	-42.77	1.50 V	111	51.74	-107.51
3	163.55	-55.01	-13.00	-42.01	1.00 V	292	48.88	-103.89
4	292.88	-60.33	-13.00	-47.33	2.00 V	131	42.61	-102.94
5	329.43	-56.37	-13.00	-43.37	1.00 V	171	45.67	-102.04
6	433.46	-59.36	-13.00	-46.36	1.00 V	7	40.87	-100.23

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.



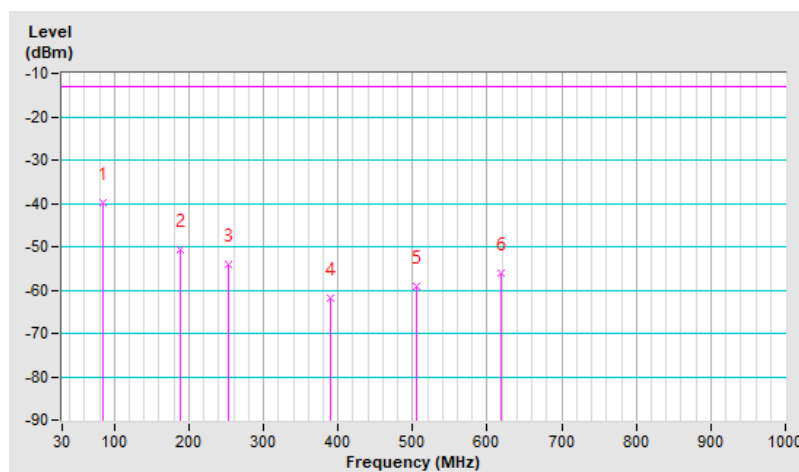
7.6.4 LTE Band 4

RF Mode	LTE Band 4 Channel Bandwidth: 1.4MHz	Channel	CH 20393 : 1754.3 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% 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	84.83	-39.85	-13.00	-26.85	2.00 H	201	69.38	-109.23
2	187.45	-50.78	-13.00	-37.78	1.00 H	0	55.34	-106.12
3	253.52	-53.98	-13.00	-40.98	1.00 H	302	50.40	-104.38
4	389.88	-61.83	-13.00	-48.83	1.50 H	18	39.27	-101.10
5	505.16	-59.30	-13.00	-46.30	1.00 H	154	39.70	-99.00
6	619.03	-55.98	-13.00	-42.98	1.50 H	88	40.15	-96.13

Remarks:

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

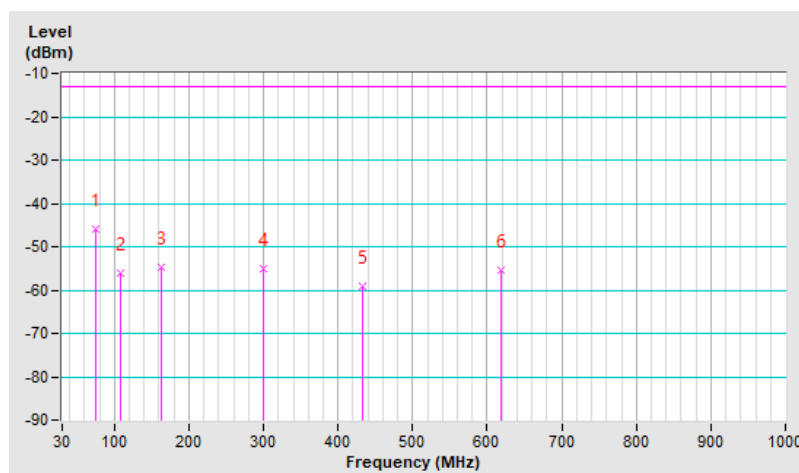


RF Mode	LTE Band 4 Channel Bandwidth: 1.4MHz	Channel	CH 20393 : 1754.3 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% RH
Tested By	Edison Lee		

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	74.99	-46.06	-13.00	-33.06	1.00 V	279	60.62	-106.68
2	108.72	-56.20	-13.00	-43.20	1.00 V	16	50.85	-107.05
3	163.55	-54.90	-13.00	-41.90	2.00 V	230	48.99	-103.89
4	299.91	-55.15	-13.00	-42.15	1.00 V	104	47.56	-102.71
5	432.06	-59.09	-13.00	-46.09	1.50 V	17	41.19	-100.28
6	619.03	-55.46	-13.00	-42.46	1.00 V	179	40.67	-96.13

Remarks:

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



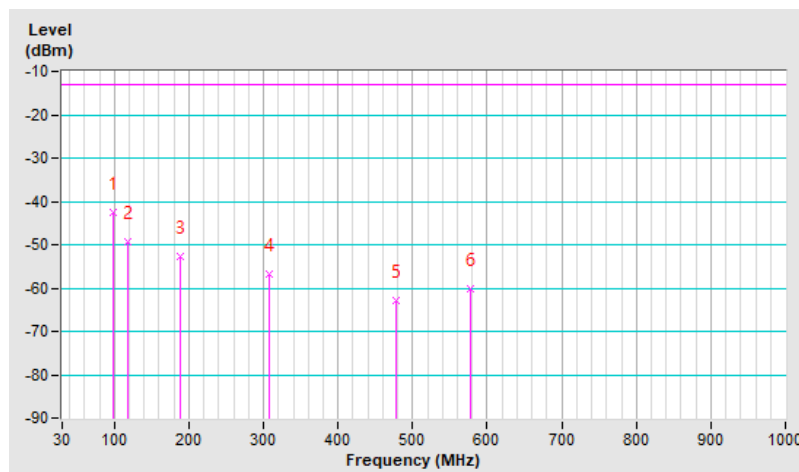
7.6.5 LTE Band 12

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	97.48	-42.54	-13.00	-29.54	1.00 H	132	68.46	-111.00
2	118.57	-49.34	-13.00	-36.34	1.00 H	103	59.09	-108.43
3	187.45	-52.80	-13.00	-39.80	1.50 H	16	55.47	-108.27
4	308.35	-56.94	-13.00	-43.94	1.00 H	266	47.72	-104.66
5	477.04	-62.84	-13.00	-49.84	1.50 H	342	38.82	-101.66
6	576.86	-60.00	-13.00	-47.00	1.00 H	97	39.60	-99.60

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP 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.

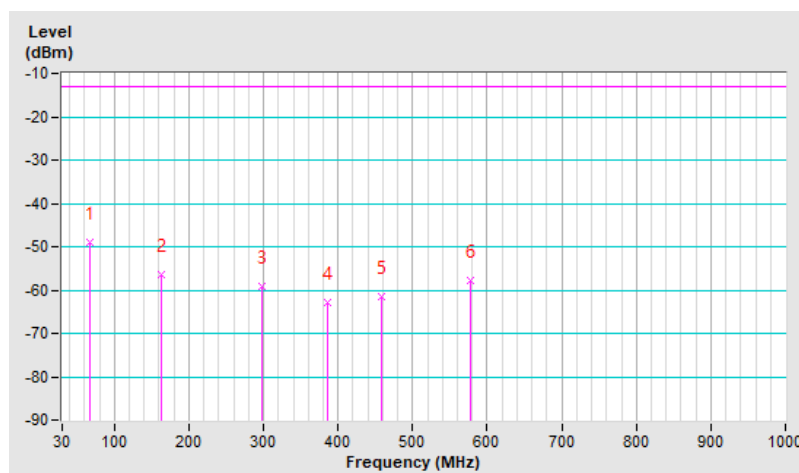


RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	19°C, 64% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	66.55	-48.86	-13.00	-35.86	1.50 V	298	58.58	-107.44
2	162.14	-56.50	-13.00	-43.50	1.00 V	30	49.46	-105.96
3	297.10	-59.27	-13.00	-46.27	2.00 V	91	45.68	-104.95
4	385.67	-62.88	-13.00	-49.88	1.00 V	308	40.43	-103.31
5	457.36	-61.55	-13.00	-48.55	1.00 V	310	40.37	-101.92
6	576.86	-57.72	-13.00	-44.72	1.00 V	164	41.88	-99.60

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. $Margin\ value = ERP - Limit\ value$
4. The other ERP 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.



7.7 Radiated Spurious Emissions above 1GHz

7.7.1 WCDMA Band 2

RF Mode	WCDMA Band II	Channel	CH 9262 : 1852.4 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3704.80	-42.37	-13.00	-29.37	2.80 H	93	46.23	-88.60
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	3704.80	-43.49	-13.00	-30.49	1.11 V	350	45.11	-88.60

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	WCDMA Band II	Channel	CH 9400 : 1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3760.00	-41.10	-13.00	-28.10	2.85 H	99	47.21	-88.31
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	3760.00	-42.83	-13.00	-29.83	1.23 V	348	45.48	-88.31

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	WCDMA Band II	Channel	CH 9538 : 1907.6 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3815.20	-41.14	-13.00	-28.14	2.88 H	91	46.92	-88.06
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	3815.20	-41.69	-13.00	-28.69	1.06 V	344	46.37	-88.06

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.

7.7.2 WCDMA Band 4

RF Mode	WCDMA Band IV	Channel	CH 1312 : 1712.4 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3424.80	-41.65	-13.00	-28.65	1.91 H	349	48.65	-90.30
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	3424.80	-46.97	-13.00	-33.97	1.62 V	68	43.33	-90.30

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	WCDMA Band IV	Channel	CH 1413 : 1732.6 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3465.20	-41.12	-13.00	-28.12	1.99 H	352	48.97	-90.09
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	3465.20	-46.52	-13.00	-33.52	1.58 V	71	43.57	-90.09

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	WCDMA Band IV	Channel	CH 1513 : 1752.6 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3505.20	-41.09	-13.00	-28.09	1.91 H	344	48.67	-89.76
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	3505.20	-46.34	-13.00	-33.34	1.55 V	61	43.42	-89.76

Remarks:

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

7.7.3 LTE Band 2

RF Mode	LTE Band 2 Channel Bandwidth: 1.4MHz	Channel	CH 18607 : 1850.7 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	5552.10	-39.73	-13.00	-26.73	2.84 H	92	42.53	-82.26
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	5552.10	-39.93	-13.00	-26.93	1.11 V	354	42.33	-82.26

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.

RF Mode	LTE Band 2 Channel Bandwidth: 1.4MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	5640.00	-39.45	-13.00	-26.45	2.84 H	96	42.57	-82.02
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	5640.00	-39.60	-13.00	-26.60	1.10 V	353	42.42	-82.02

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 2 Channel Bandwidth: 1.4MHz	Channel	CH 19193 : 1909.3 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	5727.90	-39.19	-13.00	-26.19	2.79 H	97	42.62	-81.81
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	5727.90	-39.36	-13.00	-26.36	1.09 V	352	42.45	-81.81

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 2 Channel Bandwidth: 5MHz	Channel	CH 18625 : 1852.5 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	5557.50	-39.51	-13.00	-26.51	2.87 H	94	42.74	-82.25
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	5557.50	-39.81	-13.00	-26.81	1.05 V	353	42.44	-82.25

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 2 Channel Bandwidth: 5MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	5640.00	-39.35	-13.00	-26.35	2.86 H	90	42.67	-82.02
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	5640.00	-39.52	-13.00	-26.52	1.14 V	356	42.50	-82.02

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 2 Channel Bandwidth: 5MHz	Channel	CH 19175 : 1907.5 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	5722.50	-39.31	-13.00	-26.31	2.86 H	93	42.55	-81.86
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	5722.50	-39.37	-13.00	-26.37	1.06 V	352	42.49	-81.86

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 2 Channel Bandwidth: 20MHz	Channel	CH 18700 : 1860 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	5580.00	-39.52	-13.00	-26.52	2.82 H	94	42.71	-82.23
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	5580.00	-39.83	-13.00	-26.83	1.05 V	350	42.40	-82.23

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 2 Channel Bandwidth: 20MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	5640.00	-39.12	-13.00	-26.12	2.82 H	93	42.90	-82.02
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	5640.00	-39.32	-13.00	-26.32	1.10 V	352	42.70	-82.02

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 2 Channel Bandwidth: 20MHz	Channel	CH 19100 : 1900 MHz
Frequency Range	1 GHz ~ 20 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	5700.00	-39.32	-13.00	-26.32	2.80 H	93	42.73	-82.05
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	5700.00	-39.70	-13.00	-26.70	1.08 V	354	42.35	-82.05

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.

7.7.4 LTE Band 4

RF Mode	LTE Band 4 Channel Bandwidth: 1.4MHz	Channel	CH 19957 : 1710.7 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3421.40	-43.28	-13.00	-30.28	1.88 H	347	47.03	-90.31
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	3421.40	-47.42	-13.00	-34.42	1.66 V	62	42.89	-90.31

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 4 Channel Bandwidth: 1.4MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3465.00	-42.96	-13.00	-29.96	1.91 H	349	47.13	-90.09
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	3465.00	-47.15	-13.00	-34.15	1.58 V	59	42.94	-90.09

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 4 Channel Bandwidth: 1.4MHz	Channel	CH 20393 : 1754.3 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3508.60	-42.58	-13.00	-29.58	1.93 H	348	47.17	-89.75
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	3508.60	-46.86	-13.00	-33.86	1.66 V	64	42.89	-89.75

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 4 Channel Bandwidth: 5MHz	Channel	CH 19975 : 1712.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3425.00	-43.07	-13.00	-30.07	1.87 H	350	47.23	-90.30
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	3425.00	-47.53	-13.00	-34.53	1.62 V	66	42.77	-90.30

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 4 Channel Bandwidth: 5MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3465.00	-42.97	-13.00	-29.97	1.91 H	350	47.12	-90.09
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	3465.00	-47.18	-13.00	-34.18	1.58 V	58	42.91	-90.09

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 4 Channel Bandwidth: 5MHz	Channel	CH 20375 : 1752.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3505.00	-42.67	-13.00	-29.67	1.85 H	355	47.09	-89.76
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	3505.00	-46.80	-13.00	-33.80	1.63 V	60	42.96	-89.76

Remarks:

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

RF Mode	LTE Band 4 Channel Bandwidth: 20MHz	Channel	CH 20050 : 1720 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	-43.05	-13.00	-30.05	1.92 H	349	47.20	-90.25
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	-47.33	-13.00	-34.33	1.66 V	62	42.92	-90.25

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 4 Channel Bandwidth: 20MHz	Channel	CH 20175 : 1732.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3465.00	-42.69	-13.00	-29.69	1.88 H	346	47.40	-90.09
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	3465.00	-46.69	-13.00	-33.69	1.63 V	60	43.40	-90.09

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 4 Channel Bandwidth: 20MHz	Channel	CH 20300 : 1745 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% 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	3490.00	-42.86	-13.00	-29.86	1.87 H	349	47.00	-89.86
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	3490.00	-46.76	-13.00	-33.76	1.60 V	60	43.10	-89.86

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.

7.7.5 LTE Band 12

RF Mode	LTE Band 12 Channel Bandwidth: 1.4MHz	Channel	CH 23017 : 699.7 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1339.40	-25.00	-13.00	-12.00	1.02 H	164	75.25	-100.25
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1339.40	-30.02	-13.00	-17.02	2.27 V	214	70.23	-100.25

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 Channel Bandwidth: 1.4MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1415.00	-24.49	-13.00	-11.49	1.00 H	162	75.40	-99.89
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1415.00	-29.64	-13.00	-16.64	2.24 V	218	70.25	-99.89

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 Channel Bandwidth: 1.4MHz	Channel	CH 23173 : 715.3 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1430.60	-24.66	-13.00	-11.66	1.01 H	164	75.22	-99.88
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1430.60	-29.58	-13.00	-16.58	2.23 V	216	70.30	-99.88

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 Channel Bandwidth: 5MHz	Channel	CH 23035 : 701.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1403.00	-24.58	-13.00	-11.58	1.03 H	165	75.32	-99.90
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1403.00	-29.77	-13.00	-16.77	2.28 V	221	70.13	-99.90

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 Channel Bandwidth: 5MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1415.00	-24.50	-13.00	-11.50	1.07 H	166	75.39	-99.89
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1415.00	-29.80	-13.00	-16.80	2.31 V	214	70.09	-99.89

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 Channel Bandwidth: 5MHz	Channel	CH 23155 : 713.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1427.00	-24.55	-13.00	-11.55	1.03 H	166	75.33	-99.88
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1427.00	-29.71	-13.00	-16.71	2.30 V	215	70.17	-99.88

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23060 : 704 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1408.00	-24.47	-13.00	-11.47	1.05 H	165	75.42	-99.89
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1408.00	-29.74	-13.00	-16.74	2.26 V	217	70.15	-99.89

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23095 : 707.5 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1415.00	-24.29	-13.00	-11.29	1.00 H	165	75.60	-99.89
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1415.00	-29.39	-13.00	-16.39	2.27 V	217	70.50	-99.89

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

RF Mode	LTE Band 12 Channel Bandwidth: 10MHz	Channel	CH 23130 : 711 MHz
Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	1 MHz/3 MHz (RMS)
Input Power:	12Vdc	Environmental Conditions	20°C, 65% RH
Tested By	Edison Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1422.00	-24.55	-13.00	-11.55	1.01 H	163	75.34	-99.89
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1422.00	-29.71	-13.00	-16.71	2.26 V	214	70.18	-99.89

Remarks:

1. $ERP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8 - 2.15$
3. Margin value = ERP – Limit value
4. The other ERP levels were very low against the limit.

7.8 Frequency Stability

Environmental Conditions:	25°C, 60% RH	Tested By:	Noah Chang
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7.8.1 WCDMA Band 2

12Vdc

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 9262 (1852.4 MHz)		CH 9538 (1907.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1852.3999980	-0.0011	1907.6000040	0.0021
12.0	1852.4000010	0.0005	1907.5999970	-0.0016
13.8	1852.3999960	-0.0022	1907.6000020	0.0010

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 9262 (1852.4 MHz)		CH 9538 (1907.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.4000010	0.0005	1907.5999960	-0.0021
-20	1852.3999960	-0.0022	1907.6000030	0.0016
-10	1852.4000020	0.0011	1907.5999960	-0.0021
0	1852.4000030	0.0016	1907.6000030	0.0016
10	1852.4000010	0.0005	1907.5999960	-0.0021
20	1852.4000030	0.0016	1907.6000040	0.0021
30	1852.4000030	0.0016	1907.6000040	0.0021
40	1852.3999980	-0.0011	1907.6000020	0.0010
50	1852.4000040	0.0022	1907.5999970	-0.0016
60	1852.4000040	0.0022	1907.5999960	-0.0021
65	1852.3999970	-0.0016	1907.5999980	-0.0010

24Vdc

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 9262 (1852.4 MHz)		CH 9538 (1907.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1852.4000020	0.0011	1907.6000040	0.0021
24.0	1852.3999990	-0.0005	1907.6000040	0.0021
27.6	1852.4000040	0.0022	1907.6000030	0.0016

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 9262 (1852.4 MHz)		CH 9538 (1907.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.3999980	-0.0011	1907.6000020	0.0010
-20	1852.4000020	0.0011	1907.6000010	0.0005
-10	1852.4000030	0.0016	1907.6000020	0.0010
0	1852.4000020	0.0011	1907.6000010	0.0005
10	1852.3999970	-0.0016	1907.6000010	0.0005
20	1852.3999960	-0.0022	1907.6000030	0.0016
30	1852.4000040	0.0022	1907.6000020	0.0010
40	1852.3999970	-0.0016	1907.6000040	0.0021
50	1852.4000040	0.0022	1907.5999980	-0.0010
60	1852.3999970	-0.0016	1907.6000030	0.0016
65	1852.4000030	0.0016	1907.6000020	0.0010

7.8.2 WCDMA Band 4

12Vdc

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 1312 (1712.4 MHz)		CH 1513 (1752.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1712.4000030	0.0018	1752.6000040	0.0023
12.0	1712.4000010	0.0006	1752.6000030	0.0017
13.8	1712.3999990	-0.0006	1752.5999970	-0.0017

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 1312 (1712.4 MHz)		CH 1513 (1752.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.4000020	0.0012	1752.6000030	0.0017
-20	1712.3999970	-0.0018	1752.5999980	-0.0011
-10	1712.3999980	-0.0012	1752.6000040	0.0023
0	1712.3999990	-0.0006	1752.6000030	0.0017
10	1712.3999970	-0.0018	1752.6000020	0.0011
20	1712.4000020	0.0012	1752.5999980	-0.0011
30	1712.3999970	-0.0018	1752.5999980	-0.0011
40	1712.4000010	0.0006	1752.5999960	-0.0023
50	1712.4000020	0.0012	1752.6000030	0.0017
60	1712.3999960	-0.0023	1752.5999960	-0.0023
65	1712.3999990	-0.0006	1752.6000040	0.0023

24Vdc

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 1312 (1712.4 MHz)		CH 1513 (1752.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1712.4000020	0.0012	1752.6000040	0.0023
24.0	1712.3999960	-0.0023	1752.6000010	0.0006
27.6	1712.4000030	0.0018	1752.5999980	-0.0011

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 1312 (1712.4 MHz)		CH 1513 (1752.6 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.4000020	0.0012	1752.6000010	0.0006
-20	1712.4000030	0.0018	1752.6000010	0.0006
-10	1712.4000040	0.0023	1752.6000020	0.0011
0	1712.4000010	0.0006	1752.5999990	-0.0006
10	1712.4000020	0.0012	1752.5999970	-0.0017
20	1712.3999970	-0.0018	1752.5999960	-0.0023
30	1712.3999990	-0.0006	1752.6000010	0.0006
40	1712.3999990	-0.0006	1752.6000010	0.0006
50	1712.4000010	0.0006	1752.5999970	-0.0017
60	1712.4000030	0.0018	1752.6000020	0.0011
65	1712.4000010	0.0006	1752.6000020	0.0011

7.8.3 LTE Band 2

12Vdc

LTE Band 2, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1850.6999980	-0.0011	1909.3000040	0.0021
12.0	1850.6999980	-0.0011	1909.3000020	0.0010
13.8	1850.7000020	0.0011	1909.2999980	-0.0010

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1850.7000020	0.0011	1909.2999980	-0.0010
-20	1850.6999960	-0.0022	1909.2999980	-0.0010
-10	1850.7000040	0.0022	1909.2999990	-0.0005
0	1850.6999970	-0.0016	1909.2999980	-0.0010
10	1850.7000010	0.0005	1909.2999980	-0.0010
20	1850.7000030	0.0016	1909.3000020	0.0010
30	1850.7000030	0.0016	1909.3000020	0.0010
40	1850.7000040	0.0022	1909.3000020	0.0010
50	1850.6999960	-0.0022	1909.3000010	0.0005
60	1850.6999990	-0.0005	1909.2999990	-0.0005
65	1850.6999990	-0.0005	1909.2999990	-0.0005

LTE Band 2, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1851.4999990	-0.0005	1908.5000040	0.0021
12.0	1851.4999970	-0.0016	1908.5000030	0.0016
13.8	1851.4999980	-0.0011	1908.5000030	0.0016

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1851.5000010	0.0005	1908.4999960	-0.0021
-20	1851.5000040	0.0022	1908.5000010	0.0005
-10	1851.5000020	0.0011	1908.5000010	0.0005
0	1851.4999980	-0.0011	1908.4999970	-0.0016
10	1851.4999990	-0.0005	1908.5000030	0.0016
20	1851.5000010	0.0005	1908.5000020	0.0010
30	1851.5000040	0.0022	1908.4999990	-0.0005
40	1851.5000010	0.0005	1908.5000040	0.0021
50	1851.4999990	-0.0005	1908.4999990	-0.0005
60	1851.5000030	0.0016	1908.5000010	0.0005
65	1851.5000030	0.0016	1908.5000010	0.0005

LTE Band 2, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1852.5000010	0.0005	1907.4999970	-0.0016
12.0	1852.5000030	0.0016	1907.5000010	0.0005
13.8	1852.4999980	-0.0011	1907.4999990	-0.0005

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.5000010	0.0005	1907.5000030	0.0016
-20	1852.5000010	0.0005	1907.5000030	0.0016
-10	1852.5000030	0.0016	1907.5000030	0.0016
0	1852.4999970	-0.0016	1907.5000040	0.0021
10	1852.5000020	0.0011	1907.5000040	0.0021
20	1852.5000010	0.0005	1907.5000040	0.0021
30	1852.5000010	0.0005	1907.5000030	0.0016
40	1852.5000020	0.0011	1907.4999960	-0.0021
50	1852.5000020	0.0011	1907.4999980	-0.0010
60	1852.4999960	-0.0022	1907.5000020	0.0010
65	1852.5000020	0.0011	1907.4999960	-0.0021

LTE Band 2, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1855.0000010	0.0005	1905.0000040	0.0021
12.0	1855.0000000	0.0000	1904.9999980	-0.0010
13.8	1855.0000030	0.0016	1904.9999970	-0.0016

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1854.9999990	-0.0005	1904.9999980	-0.0010
-20	1855.0000040	0.0022	1905.0000020	0.0010
-10	1854.9999990	-0.0005	1905.0000030	0.0016
0	1855.0000010	0.0005	1905.0000020	0.0010
10	1854.9999960	-0.0022	1904.9999980	-0.0010
20	1855.0000020	0.0011	1905.0000010	0.0005
30	1855.0000030	0.0016	1905.0000010	0.0005
40	1855.0000040	0.0022	1905.0000040	0.0021
50	1855.0000020	0.0011	1904.9999980	-0.0010
60	1854.9999980	-0.0011	1905.0000010	0.0005
65	1854.9999960	-0.0022	1904.9999990	-0.0005

LTE Band 2, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1857.5000040	0.0022	1902.5000030	0.0016
12.0	1857.5000010	0.0005	1902.4999960	-0.0021
13.8	1857.5000010	0.0005	1902.5000040	0.0021

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1857.5000020	0.0011	1902.4999990	-0.0005
-20	1857.5000040	0.0022	1902.4999990	-0.0005
-10	1857.4999980	-0.0011	1902.5000020	0.0011
0	1857.5000020	0.0011	1902.5000040	0.0021
10	1857.5000040	0.0022	1902.5000030	0.0016
20	1857.4999990	-0.0005	1902.5000020	0.0011
30	1857.4999970	-0.0016	1902.5000030	0.0016
40	1857.5000040	0.0022	1902.4999990	-0.0005
50	1857.4999990	-0.0005	1902.5000030	0.0016
60	1857.4999960	-0.0022	1902.5000030	0.0016
65	1857.4999960	-0.0022	1902.5000040	0.0021

LTE Band 2, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1859.9999970	-0.0016	1899.9999990	-0.0005
12.0	1860.0000010	0.0005	1899.9999980	-0.0011
13.8	1860.0000030	0.0016	1900.0000030	0.0016

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1859.9999990	-0.0005	1899.9999990	-0.0005
-20	1860.0000040	0.0022	1900.0000020	0.0011
-10	1860.0000010	0.0005	1899.9999970	-0.0016
0	1859.9999960	-0.0022	1899.9999970	-0.0016
10	1860.0000030	0.0016	1899.9999990	-0.0005
20	1860.0000020	0.0011	1899.9999990	-0.0005
30	1859.9999960	-0.0022	1900.0000030	0.0016
40	1860.0000030	0.0016	1900.0000010	0.0005
50	1860.0000030	0.0016	1899.9999970	-0.0016
60	1859.9999980	-0.0011	1899.9999980	-0.0011
65	1859.9999990	-0.0005	1899.9999960	-0.0021

24Vdc

LTE Band 2, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1850.6999990	-0.0005	1909.3000040	0.0021
24.0	1850.6999990	-0.0005	1909.2999980	-0.0010
27.6	1850.7000020	0.0011	1909.3000020	0.0010

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18607 (1850.7 MHz)		CH 19193 (1909.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1850.7000010	0.0005	1909.2999990	-0.0005
-20	1850.7000030	0.0016	1909.2999980	-0.0010
-10	1850.7000040	0.0022	1909.3000020	0.0010
0	1850.7000040	0.0022	1909.2999960	-0.0021
10	1850.6999980	-0.0011	1909.3000040	0.0021
20	1850.7000040	0.0022	1909.3000030	0.0016
30	1850.7000040	0.0022	1909.2999970	-0.0016
40	1850.6999970	-0.0016	1909.2999980	-0.0010
50	1850.6999970	-0.0016	1909.3000040	0.0021
60	1850.7000040	0.0022	1909.2999960	-0.0021
65	1850.6999970	-0.0016	1909.3000040	0.0021

LTE Band 2, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1851.4999980	-0.0011	1908.5000010	0.0005
24.0	1851.4999990	-0.0005	1908.5000030	0.0016
27.6	1851.5000040	0.0022	1908.4999960	-0.0021

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18615 (1851.5 MHz)		CH 19185 (1908.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1851.4999990	-0.0005	1908.5000020	0.0010
-20	1851.4999970	-0.0016	1908.4999970	-0.0016
-10	1851.4999980	-0.0011	1908.5000010	0.0005
0	1851.4999970	-0.0016	1908.5000040	0.0021
10	1851.4999960	-0.0022	1908.5000040	0.0021
20	1851.5000020	0.0011	1908.4999960	-0.0021
30	1851.5000030	0.0016	1908.5000030	0.0016
40	1851.4999980	-0.0011	1908.4999970	-0.0016
50	1851.4999990	-0.0005	1908.5000010	0.0005
60	1851.5000020	0.0011	1908.5000030	0.0016
65	1851.4999990	-0.0005	1908.4999980	-0.0010

LTE Band 2, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1852.4999960	-0.0022	1907.4999990	-0.0005
24.0	1852.4999970	-0.0016	1907.4999970	-0.0016
27.6	1852.4999990	-0.0005	1907.4999980	-0.0010

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18625 (1852.5 MHz)		CH 19175 (1907.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1852.5000020	0.0011	1907.4999980	-0.0010
-20	1852.4999980	-0.0011	1907.5000020	0.0010
-10	1852.5000010	0.0005	1907.4999990	-0.0005
0	1852.4999980	-0.0011	1907.4999970	-0.0016
10	1852.4999970	-0.0016	1907.4999970	-0.0016
20	1852.4999960	-0.0022	1907.4999960	-0.0021
30	1852.4999990	-0.0005	1907.4999960	-0.0021
40	1852.5000030	0.0016	1907.5000020	0.0010
50	1852.4999990	-0.0005	1907.5000030	0.0016
60	1852.5000020	0.0011	1907.4999960	-0.0021
65	1852.4999970	-0.0016	1907.4999990	-0.0005

LTE Band 2, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1854.9999960	-0.0022	1905.0000040	0.0021
24.0	1854.9999960	-0.0022	1904.9999970	-0.0016
27.6	1855.0000030	0.0016	1904.9999960	-0.0021

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18650 (1855 MHz)		CH 19150 (1905 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1855.0000020	0.0011	1904.9999960	-0.0021
-20	1855.0000030	0.0016	1905.0000020	0.0010
-10	1854.9999990	-0.0005	1905.0000010	0.0005
0	1855.0000030	0.0016	1905.0000030	0.0016
10	1854.9999970	-0.0016	1905.0000040	0.0021
20	1855.0000030	0.0016	1904.9999990	-0.0005
30	1854.9999970	-0.0016	1905.0000040	0.0021
40	1855.0000020	0.0011	1904.9999970	-0.0016
50	1855.0000040	0.0022	1904.9999990	-0.0005
60	1854.9999980	-0.0011	1905.0000020	0.0010
65	1855.0000040	0.0022	1905.0000040	0.0021

LTE Band 2, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1857.4999960	-0.0022	1902.4999960	-0.0021
24.0	1857.4999960	-0.0022	1902.4999960	-0.0021
27.6	1857.5000030	0.0016	1902.4999970	-0.0016

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18675 (1857.5 MHz)		CH 19125 (1902.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1857.5000020	0.0011	1902.4999980	-0.0011
-20	1857.5000020	0.0011	1902.5000020	0.0011
-10	1857.4999990	-0.0005	1902.5000030	0.0016
0	1857.5000030	0.0016	1902.4999960	-0.0021
10	1857.4999970	-0.0016	1902.4999970	-0.0016
20	1857.5000030	0.0016	1902.5000010	0.0005
30	1857.4999970	-0.0016	1902.5000040	0.0021
40	1857.5000020	0.0011	1902.4999970	-0.0016
50	1857.5000040	0.0022	1902.5000040	0.0021
60	1857.4999980	-0.0011	1902.4999960	-0.0021
65	1857.5000040	0.0022	1902.5000010	0.0005

LTE Band 2, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1859.9999960	-0.0022	1900.0000040	0.0021
24.0	1859.9999960	-0.0022	1899.9999970	-0.0016
27.6	1860.0000030	0.0016	1900.0000020	0.0011

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 18700 (1860 MHz)		CH 19100 (1900 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1860.0000010	0.0005	1899.9999960	-0.0021
-20	1860.0000020	0.0011	1899.9999980	-0.0011
-10	1860.0000030	0.0016	1899.9999970	-0.0016
0	1860.0000030	0.0016	1899.9999980	-0.0011
10	1859.9999970	-0.0016	1899.9999970	-0.0016
20	1860.0000030	0.0016	1899.9999960	-0.0021
30	1859.9999970	-0.0016	1899.9999990	-0.0005
40	1860.0000020	0.0011	1899.9999990	-0.0005
50	1860.0000040	0.0022	1900.0000040	0.0021
60	1859.9999980	-0.0011	1900.0000040	0.0021
65	1860.0000040	0.0022	1899.9999970	-0.0016

7.8.4 LTE Band 4

12Vdc

LTE Band 4, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 19957 (1710.7 MHz)		CH 20393 (1754.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1710.6999960	-0.0023	1754.2999990	-0.0006
12.0	1710.6999990	-0.0006	1754.3000030	0.0017
13.8	1710.7000040	0.0023	1754.2999970	-0.0017

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 19957 (1710.7 MHz)		CH 20393 (1754.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1710.7000030	0.0018	1754.2999960	-0.0023
-20	1710.6999980	-0.0012	1754.2999960	-0.0023
-10	1710.7000040	0.0023	1754.2999990	-0.0006
0	1710.7000030	0.0018	1754.3000030	0.0017
10	1710.7000030	0.0018	1754.3000030	0.0017
20	1710.7000040	0.0023	1754.2999970	-0.0017
30	1710.7000020	0.0012	1754.3000030	0.0017
40	1710.7000040	0.0023	1754.3000020	0.0011
50	1710.6999990	-0.0006	1754.2999970	-0.0017
60	1710.6999980	-0.0012	1754.3000020	0.0011
65	1710.6999980	-0.0012	1754.2999980	-0.0011

LTE Band 4, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 19965 (1711.5 MHz)		CH 20385 (1753.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1711.4999970	-0.0018	1753.5000030	0.0017
12.0	1711.4999990	-0.0006	1753.5000030	0.0017
13.8	1711.5000040	0.0023	1753.4999960	-0.0023

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 19965 (1711.5 MHz)		CH 20385 (1753.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1711.4999960	-0.0023	1753.5000020	0.0011
-20	1711.4999990	-0.0006	1753.5000010	0.0006
-10	1711.4999970	-0.0018	1753.4999990	-0.0006
0	1711.4999990	-0.0006	1753.4999960	-0.0023
10	1711.5000010	0.0006	1753.4999980	-0.0011
20	1711.4999990	-0.0006	1753.5000040	0.0023
30	1711.4999990	-0.0006	1753.4999970	-0.0017
40	1711.5000020	0.0012	1753.5000030	0.0017
50	1711.4999960	-0.0023	1753.4999970	-0.0017
60	1711.4999980	-0.0012	1753.4999970	-0.0017
65	1711.5000040	0.0023	1753.5000040	0.0023

LTE Band 4, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 19975 (1712.5 MHz)		CH 20375 (1752.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1712.5000010	0.0006	1752.4999980	-0.0011
12.0	1712.5000020	0.0012	1752.5000010	0.0006
13.8	1712.4999980	-0.0012	1752.4999970	-0.0017

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 19975 (1712.5 MHz)		CH 20375 (1752.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.4999980	-0.0012	1752.4999970	-0.0017
-20	1712.5000010	0.0006	1752.5000030	0.0017
-10	1712.4999990	-0.0006	1752.5000020	0.0011
0	1712.5000040	0.0023	1752.5000030	0.0017
10	1712.5000010	0.0006	1752.4999990	-0.0006
20	1712.4999990	-0.0006	1752.4999990	-0.0006
30	1712.4999970	-0.0018	1752.5000010	0.0006
40	1712.4999960	-0.0023	1752.4999980	-0.0011
50	1712.4999980	-0.0012	1752.5000000	0.0000
60	1712.5000010	0.0006	1752.4999980	-0.0011
65	1712.4999990	-0.0006	1752.4999990	-0.0006

LTE Band 4, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20000 (1715 MHz)		CH 20350 (1750 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1715.0000030	0.0017	1749.9999990	-0.0006
12.0	1714.9999970	-0.0017	1749.9999970	-0.0017
13.8	1715.0000030	0.0017	1749.9999990	-0.0006

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20000 (1715 MHz)		CH 20350 (1750 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1714.9999980	-0.0012	1749.9999960	-0.0023
-20	1715.0000020	0.0012	1749.9999970	-0.0017
-10	1714.9999980	-0.0012	1750.0000040	0.0023
0	1715.0000010	0.0006	1750.0000030	0.0017
10	1715.0000030	0.0017	1750.0000020	0.0011
20	1714.9999990	-0.0006	1750.0000040	0.0023
30	1715.0000020	0.0012	1750.0000040	0.0023
40	1714.9999970	-0.0017	1749.9999990	-0.0006
50	1715.0000040	0.0023	1749.9999960	-0.0023
60	1714.9999970	-0.0017	1750.0000030	0.0017
65	1715.0000020	0.0012	1750.0000040	0.0023

LTE Band 4, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20025 (1717.5 MHz)		CH 20325 (1747.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1717.5000010	0.0006	1747.4999970	-0.0017
12.0	1717.4999980	-0.0012	1747.4999990	-0.0006
13.8	1717.4999990	-0.0006	1747.5000020	0.0011

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20025 (1717.5 MHz)		CH 20325 (1747.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.5000040	0.0023	1747.5000020	0.0011
-20	1717.5000010	0.0006	1747.4999960	-0.0023
-10	1717.4999970	-0.0017	1747.4999970	-0.0017
0	1717.5000020	0.0012	1747.4999980	-0.0011
10	1717.5000020	0.0012	1747.4999970	-0.0017
20	1717.4999990	-0.0006	1747.5000040	0.0023
30	1717.4999960	-0.0023	1747.5000040	0.0023
40	1717.4999970	-0.0017	1747.4999990	-0.0006
50	1717.5000030	0.0017	1747.5000040	0.0023
60	1717.4999980	-0.0012	1747.5000030	0.0017
65	1717.5000030	0.0017	1747.5000030	0.0017

LTE Band 4, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20050 (1720 MHz)		CH 20300 (1745 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	1719.9999970	-0.0017	1745.0000020	0.0011
12.0	1719.9999980	-0.0012	1744.9999990	-0.0006
13.8	1720.0000040	0.0023	1744.9999990	-0.0006

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20050 (1720 MHz)		CH 20300 (1745 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1720.0000010	0.0006	1744.9999980	-0.0011
-20	1719.9999970	-0.0017	1744.9999980	-0.0011
-10	1720.0000030	0.0017	1745.0000010	0.0006
0	1719.9999970	-0.0017	1745.0000040	0.0023
10	1719.9999960	-0.0023	1745.0000020	0.0011
20	1720.0000030	0.0017	1745.0000030	0.0017
30	1719.9999960	-0.0023	1744.9999960	-0.0023
40	1720.0000030	0.0017	1745.0000020	0.0011
50	1720.0000040	0.0023	1745.0000030	0.0017
60	1720.0000020	0.0012	1745.0000020	0.0011
65	1719.9999970	-0.0017	1745.0000040	0.0023

24Vdc

LTE Band 4, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 19957 (1710.7 MHz)		CH 20393 (1754.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1710.7000030	0.0018	1754.2999990	-0.001
24.0	1710.7000010	0.0006	1754.2999960	-0.002
27.6	1710.7000020	0.0012	1754.2999960	-0.002

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 19957 (1710.7 MHz)		CH 20393 (1754.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1710.6999980	-0.0012	1754.3000010	0.001
-20	1710.7000020	0.0012	1754.3000020	0.001
-10	1710.7000040	0.0023	1754.3000030	0.002
0	1710.6999960	-0.0023	1754.2999970	-0.002
10	1710.6999980	-0.0012	1754.2999980	-0.001
20	1710.7000020	0.0012	1754.2999970	-0.002
30	1710.6999980	-0.0012	1754.3000040	0.002
40	1710.7000030	0.0018	1754.2999990	-0.001
50	1710.6999980	-0.0012	1754.3000030	0.002
60	1710.6999960	-0.0023	1754.2999970	-0.002
65	1710.6999970	-0.0018	1754.3000040	0.002

LTE Band 4, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 19965 (1711.5 MHz)		CH 20385 (1753.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1711.4999970	-0.002	1753.5000020	0.0011
24.0	1711.4999980	-0.001	1753.4999980	-0.0011
27.6	1711.4999980	-0.001	1753.5000030	0.0017

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 19965 (1711.5 MHz)		CH 20385 (1753.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1711.5000010	0.001	1753.4999990	-0.0006
-20	1711.5000020	0.001	1753.4999980	-0.0011
-10	1711.5000020	0.001	1753.5000020	0.0011
0	1711.5000040	0.002	1753.4999960	-0.0023
10	1711.4999980	-0.001	1753.4999970	-0.0017
20	1711.5000030	0.002	1753.5000030	0.0017
30	1711.4999980	-0.001	1753.5000020	0.0011
40	1711.5000040	0.002	1753.5000010	0.0006
50	1711.4999980	-0.001	1753.5000040	0.0023
60	1711.5000010	0.001	1753.4999960	-0.0023
65	1711.5000030	0.002	1753.5000040	0.0023

LTE Band 4, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 19975 (1712.5 MHz)		CH 20375 (1752.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1712.4999960	-0.0023	1752.4999960	-0.0023
24.0	1712.4999980	-0.0012	1752.5000020	0.0011
27.6	1712.4999960	-0.0023	1752.4999980	-0.0011

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 19975 (1712.5 MHz)		CH 20375 (1752.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1712.5000020	0.0012	1752.4999960	-0.0023
-20	1712.4999960	-0.0023	1752.5000020	0.0011
-10	1712.4999970	-0.0018	1752.5000010	0.0006
0	1712.4999970	-0.0018	1752.4999990	-0.0006
10	1712.4999970	-0.0018	1752.4999980	-0.0011
20	1712.5000030	0.0018	1752.5000020	0.0011
30	1712.4999970	-0.0018	1752.5000040	0.0023
40	1712.4999980	-0.0012	1752.5000020	0.0011
50	1712.5000020	0.0012	1752.5000010	0.0006
60	1712.4999980	-0.0012	1752.5000020	0.0011
65	1712.5000040	0.0023	1752.4999970	-0.0017

LTE Band 4, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20000 (1715 MHz)		CH 20350 (1750 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1715.0000010	0.0006	1749.9999970	-0.0017
24.0	1715.0000030	0.0017	1750.0000030	0.0017
27.6	1715.0000040	0.0023	1750.0000020	0.0011

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20000 (1715 MHz)		CH 20350 (1750 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1714.9999980	-0.0012	1750.0000020	0.0011
-20	1714.9999970	-0.0017	1750.0000030	0.0017
-10	1714.9999960	-0.0023	1749.9999960	-0.0023
0	1714.9999960	-0.0023	1750.0000010	0.0006
10	1715.0000030	0.0017	1750.0000010	0.0006
20	1715.0000030	0.0017	1749.9999980	-0.0011
30	1715.0000030	0.0017	1749.9999960	-0.0023
40	1715.0000040	0.0023	1750.0000030	0.0017
50	1714.9999970	-0.0017	1749.9999990	-0.0006
60	1715.0000010	0.0006	1750.0000030	0.0017
65	1715.0000030	0.0017	1750.0000010	0.0006

LTE Band 4, Channel Bandwidth: 15 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20025 (1717.5 MHz)		CH 20325 (1747.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1717.4999960	-0.0023	1747.4999960	-0.0023
24.0	1717.5000040	0.0023	1747.5000010	0.0006
27.6	1717.4999960	-0.0023	1747.4999960	-0.0023

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20025 (1717.5 MHz)		CH 20325 (1747.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1717.5000010	0.0006	1747.5000020	0.0011
-20	1717.5000030	0.0017	1747.5000020	0.0011
-10	1717.4999990	-0.0006	1747.5000030	0.0017
0	1717.4999970	-0.0017	1747.5000020	0.0011
10	1717.4999990	-0.0006	1747.5000040	0.0023
20	1717.5000020	0.0012	1747.5000020	0.0011
30	1717.4999990	-0.0006	1747.4999990	-0.0006
40	1717.4999990	-0.0006	1747.4999990	-0.0006
50	1717.4999960	-0.0023	1747.4999980	-0.0011
60	1717.4999970	-0.0017	1747.4999990	-0.0006
65	1717.4999970	-0.0017	1747.5000020	0.0011

LTE Band 4, Channel Bandwidth: 20 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 20050 (1720 MHz)		CH 20300 (1745 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	1720.0000040	0.0023	1744.9999960	-0.0023
24.0	1720.0000040	0.0023	1745.0000010	0.0006
27.6	1719.9999970	-0.0017	1745.0000010	0.0006

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 20050 (1720 MHz)		CH 20300 (1745 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	1719.9999990	-0.0006	1745.0000020	0.0011
-20	1719.9999980	-0.0012	1745.0000010	0.0006
-10	1720.0000040	0.0023	1745.0000020	0.0011
0	1719.9999960	-0.0023	1745.0000010	0.0006
10	1719.9999990	-0.0006	1744.9999960	-0.0023
20	1720.0000030	0.0017	1744.9999960	-0.0023
30	1720.0000030	0.0017	1745.0000040	0.0023
40	1719.9999970	-0.0017	1744.9999980	-0.0011
50	1720.0000020	0.0012	1744.9999970	-0.0017
60	1720.0000020	0.0012	1745.0000020	0.0011
65	1720.0000020	0.0012	1744.9999960	-0.0023

7.8.5 LTE Band 12

12Vdc

LTE Band 12, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23017 (699.7 MHz)		CH 23173 (715.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	699.7000040	0.0057	715.2999960	-0.0056
12.0	699.7000030	0.0043	715.3000040	0.0056
13.8	699.7000020	0.0029	715.3000020	0.0028

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23017 (699.7 MHz)		CH 23173 (715.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	699.7000020	0.0029	715.3000010	0.0014
-20	699.6999980	-0.0029	715.3000040	0.0056
-10	699.6999960	-0.0057	715.2999990	-0.0014
0	699.6999980	-0.0029	715.3000030	0.0042
10	699.6999990	-0.0014	715.3000040	0.0056
20	699.7000020	0.0029	715.2999990	-0.0014
30	699.7000030	0.0043	715.3000040	0.0056
40	699.7000030	0.0043	715.2999960	-0.0056
50	699.7000040	0.0057	715.2999990	-0.0014
60	699.6999990	-0.0014	715.2999990	-0.0014
65	699.7000020	0.0029	715.2999990	-0.0014

LTE Band 12, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23025 (700.5 MHz)		CH 23165 (714.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	700.4999980	-0.0029	714.4999980	-0.0028
12.0	700.4999970	-0.0043	714.5000030	0.0042
13.8	700.5000010	0.0014	714.5000010	0.0014

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23025 (700.5 MHz)		CH 23165 (714.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	700.5000030	0.0043	714.4999980	-0.0028
-20	700.5000040	0.0057	714.5000020	0.0028
-10	700.5000010	0.0014	714.4999990	-0.0014
0	700.5000030	0.0043	714.4999970	-0.0042
10	700.5000010	0.0014	714.4999980	-0.0028
20	700.4999970	-0.0043	714.5000030	0.0042
30	700.5000030	0.0043	714.4999960	-0.0056
40	700.4999990	-0.0014	714.5000010	0.0014
50	700.4999980	-0.0029	714.4999980	-0.0028
60	700.5000010	0.0014	714.4999960	-0.0056
65	700.4999990	-0.0014	714.5000040	0.0056

LTE Band 12, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23035 (701.5 MHz)		CH 23155 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	701.4999980	-0.0029	713.5000020	0.0028
12.0	701.5000040	0.0057	713.5000040	0.0056
13.8	701.5000030	0.0043	713.5000040	0.0056

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23035 (701.5 MHz)		CH 23155 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	701.5000010	0.0014	713.4999970	-0.0042
-20	701.5000030	0.0043	713.5000030	0.0042
-10	701.5000030	0.0043	713.4999990	-0.0014
0	701.5000040	0.0057	713.4999990	-0.0014
10	701.5000020	0.0029	713.5000040	0.0056
20	701.5000030	0.0043	713.4999970	-0.0042
30	701.4999980	-0.0029	713.5000040	0.0056
40	701.4999990	-0.0014	713.5000010	0.0014
50	701.5000020	0.0029	713.4999960	-0.0056
60	701.4999960	-0.0057	713.4999970	-0.0042
65	701.4999990	-0.0014	713.5000010	0.0014

LTE Band 12, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23060 (704 MHz)		CH 23130 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
10.2	704.0000040	0.0057	710.9999970	-0.0042
12.0	704.0000010	0.0014	711.0000030	0.0042
13.8	703.9999960	-0.0057	711.0000020	0.0028

Note: The applicant defined the normal working voltage is from 10.2 to 13.8 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23060 (704 MHz)		CH 23130 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	703.9999980	-0.0028	711.0000020	0.0028
-20	704.0000040	0.0057	710.9999980	-0.0028
-10	704.0000030	0.0043	711.0000040	0.0056
0	704.0000020	0.0028	710.9999980	-0.0028
10	703.9999970	-0.0043	710.9999960	-0.0056
20	703.9999960	-0.0057	710.9999960	-0.0056
30	704.0000010	0.0014	710.9999970	-0.0042
40	703.9999970	-0.0043	711.0000030	0.0042
50	703.9999970	-0.0043	710.9999990	-0.0014
60	704.0000040	0.0057	710.9999990	-0.0014
65	704.0000030	0.0043	711.0000030	0.0042

24Vdc

LTE Band 12, Channel Bandwidth: 1.4 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23017 (699.7 MHz)		CH 23173 (715.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	699.7000040	0.0057	715.3000020	0.0028
24.0	699.7000030	0.0043	715.3000040	0.0056
27.6	699.7000040	0.0057	715.2999960	-0.0056

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23017 (699.7 MHz)		CH 23173 (715.3 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	699.7000020	0.0029	715.2999980	-0.0028
-20	699.7000030	0.0043	715.3000020	0.0028
-10	699.7000040	0.0057	715.2999970	-0.0042
0	699.7000040	0.0057	715.2999970	-0.0042
10	699.6999970	-0.0043	715.3000020	0.0028
20	699.6999990	-0.0014	715.3000020	0.0028
30	699.6999990	-0.0014	715.3000020	0.0028
40	699.6999970	-0.0043	715.3000040	0.0056
50	699.7000010	0.0014	715.2999980	-0.0028
60	699.7000030	0.0043	715.2999970	-0.0042
65	699.7000030	0.0043	715.3000020	0.0028

LTE Band 12, Channel Bandwidth: 3 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23025 (700.5 MHz)		CH 23165 (714.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	700.5000020	0.0029	714.4999990	-0.0014
24.0	700.4999970	-0.0043	714.4999970	-0.0042
27.6	700.5000010	0.0014	714.4999970	-0.0042

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23025 (700.5 MHz)		CH 23165 (714.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	700.4999990	-0.0014	714.4999980	-0.0028
-20	700.4999990	-0.0014	714.4999990	-0.0014
-10	700.5000020	0.0029	714.5000030	0.0042
0	700.4999970	-0.0043	714.4999960	-0.0056
10	700.5000030	0.0043	714.5000040	0.0056
20	700.4999970	-0.0043	714.5000020	0.0028
30	700.4999980	-0.0029	714.4999960	-0.0056
40	700.4999980	-0.0029	714.4999980	-0.0028
50	700.4999980	-0.0029	714.5000030	0.0042
60	700.5000030	0.0043	714.5000030	0.0042
65	700.5000040	0.0057	714.5000030	0.0042

LTE Band 12, Channel Bandwidth: 5 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23035 (701.5 MHz)		CH 23155 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	701.4999980	-0.0029	713.5000020	0.0028
24.0	701.5000010	0.0014	713.5000010	0.0014
27.6	701.5000040	0.0057	713.5000020	0.0028

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23035 (701.5 MHz)		CH 23155 (713.5 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	701.5000020	0.0029	713.5000020	0.0028
-20	701.5000020	0.0029	713.5000020	0.0028
-10	701.4999970	-0.0043	713.5000020	0.0028
0	701.5000040	0.0057	713.4999990	-0.0014
10	701.5000000	0.0000	713.5000040	0.0056
20	701.5000030	0.0043	713.5000020	0.0028
30	701.5000040	0.0057	713.4999990	-0.0014
40	701.4999990	-0.0014	713.5000010	0.0014
50	701.5000040	0.0057	713.4999980	-0.0028
60	701.5000010	0.0014	713.4999980	-0.0028
65	701.5000020	0.0029	713.4999980	-0.0028

LTE Band 12, Channel Bandwidth: 10 MHz

Frequency Stability Versus Voltage				
Voltage (Vdc)	CH 23060 (704 MHz)		CH 23130 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
20.4	704.0000030	0.0043	711.0000020	0.0028
24.0	703.9999970	-0.0043	710.9999960	-0.0056
27.6	704.0000030	0.0043	711.0000020	0.0028

Note: The applicant defined the normal working voltage is from 20.4 to 27.6 Vdc.

Frequency Stability Versus Temperature				
Temperature (°C)	CH 23060 (704 MHz)		CH 23130 (711 MHz)	
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)
-30	704.0000010	0.0014	711.0000030	0.0042
-20	704.0000020	0.0028	711.0000010	0.0014
-10	703.9999970	-0.0043	711.0000020	0.0028
0	704.0000030	0.0043	711.0000010	0.0014
10	704.0000020	0.0028	711.0000030	0.0042
20	703.9999970	-0.0043	711.0000040	0.0056
30	704.0000010	0.0014	711.0000040	0.0056
40	704.0000040	0.0057	710.9999960	-0.0056
50	703.9999990	-0.0014	711.0000040	0.0056
60	703.9999990	-0.0014	711.0000040	0.0056
65	704.0000040	0.0057	711.0000000	0.0000

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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