

§ 27.53 (h) For operations in the 1710–1755 MHz and 2110–2155 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power

(P) by at least $43 + 10 \log_{10}(P)$ dB.

The unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth in the 1 MHz band immediately outside and adjacent to the channel edge of the equipment. Beyond the 1 MHz band immediately outside the channel edge of the equipment, a resolution bandwidth of 1 MHz shall be employed. A narrower resolution bandwidth is allowed to be used provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz or 1% of the occupied bandwidth as applicable.

The power of any unwanted emissions measured from the channel edge of the equipment shall be attenuated below the transmitter power, P (dBW), as follows:

a. for base station and subscriber equipment, other than mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \log_{10}(p)$, dB; and

b. for mobile subscriber equipment, the attenuation shall not be less than $43 + 10 \log_{10}$

(p), dB at the channel edges and $55 + 10 \log_{10}(p)$ at 5.5 MHz away and beyond the channel edges where p in (a) and (b) is the transmitter power measured in watts

4.5.3. Test Procedure

1. Connect the equipment as shown in the above diagram with the EUT's antenna in a horizontal orientation.

2. Adjust the settings of the Universal Radio Communication Tester (CMU) to set the EUT to its maximum power at the required channel.

3. Set the spectrum analyzer to measure peak hold with the required settings.

4. Place the measurement antenna in a horizontal orientation. Rotate the EUT 360°.

Raise the measurement antenna at 1.5 meters increments and rotate the EUT 360° at maximize all emissions. Measure and record all spurious emissions (LVL) up to the tenth harmonic of the carrier frequency.

5. Replace the EUT with a horizontally polarized half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.

6. Connect the antenna to a signal generator with known output power and record the path loss in dB (LOSS). $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$.

7. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$:

8. Repeat steps 4, 5 and 6 with all antennas vertically polarized.

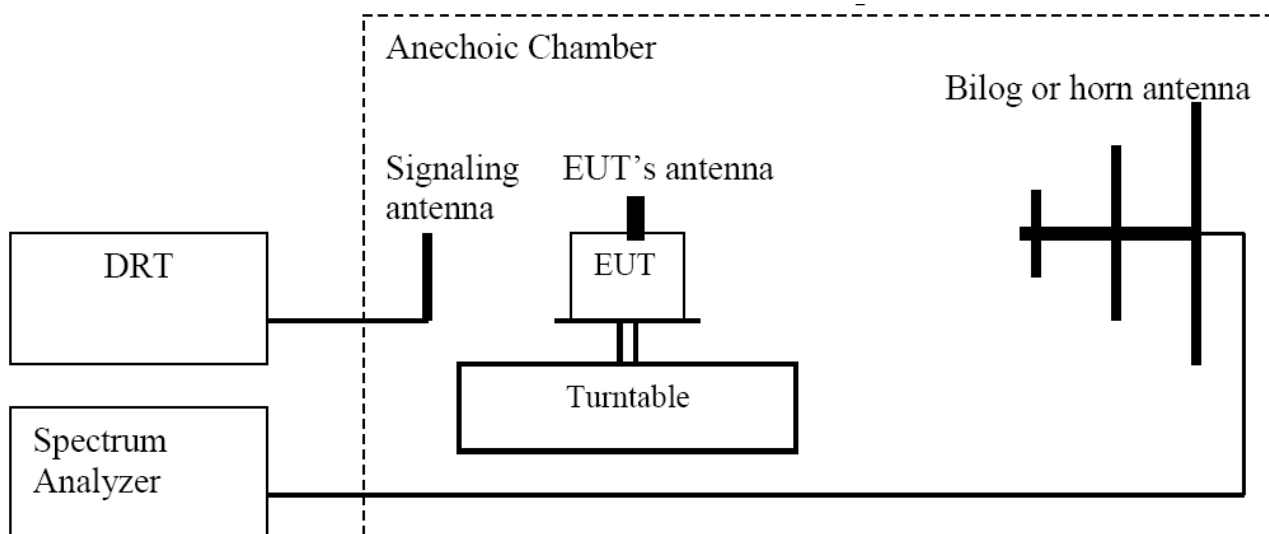
9. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$:

10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.

(Note: Steps 5 and 6 above are performed prior to testing and LOSS is recorded by test software. Steps 3, 4 and 7 above are performed with test software.)

Spectrum analyzer settings: RBW=VBW=1MHz

4.5.4. Test Setup



4.5.5.Test Data

Test Band = GSM850

Test Mode = GPRS /TM1

Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBd]	dB	Level (ERP) [dBm]		[dBm]
1648.4	0.57	0.9	6.77	40.6	-34.16	Vertical	-13

The emissions don't show in above result tables are more than 20dB below the limits

Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM850

Test Mode = GPRS /TM1

Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBd]	dB	Level (ERP) [dBm]		[dBm]
1673.2	-0.89	0.9	6.77	40.6	-35.62	Vertical	-13

The emissions don't show in above result tables are more than 20dB below the limits

Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM850

Test Mode = GPRS /TM1

Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBd]	dB	Level (ERP) [dBm]		[dBm]
1697.6	0.02	0.9	6.77	40.6	-34.71	Vertical	-13

The emissions don't show in above result tables are more than 20dB below the limits

Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM850
 Test Mode = EDGE /TM2
 Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBd]	dB	Level (ERP) [dBm]		[dBm]
1648.4	-2.7	0.9	6.77	40.6	-37.43	Vertical	-13

The emissions don't show in above result tables are more than 20dB below the limits
 Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM850
 Test Mode = EDGE /TM2
 Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBd]	dB	Level (ERP) [dBm]		[dBm]
1673.2	-2.16	0.9	6.77	40.6	-36.89	Vertical	-13

The emissions don't show in above result tables are more than 20dB below the limits
 Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM850
 Test Mode = EDGE /TM2
 Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBd]	dB	Level (ERP) [dBm]		[dBm]
1697.6	-3.32	0.9	6.77	40.6	-38.05	Vertical	-13

The emissions don't show in above result tables are more than 20dB below the limits
 Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = WCDMA850
Test Mode = UMTS/TM3
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBd]	dB	Level (ERP) [dBm]		[dBm]
1652.8	-10.36	0.9	6.77	40.6	-45.09	Vertical	-13

The emissions don't show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = WCDMA850
Test Mode = UMTS/TM3
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBd]	dB	Level (ERP) [dBm]		[dBm]
1672.8	-11.48	0.9	6.77	40.6	-46.21	Vertical	-13

The emissions don't show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = WCDMA850
Test Mode = UMTS/TM3
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBd]	dB	Level (ERP) [dBm]		[dBm]
1693.2	-10.99	0.9	6.77	40.6	-45.72	Vertical	-13

The emissions don't show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM1900
Test Mode = GPRS /TM1
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3700.4	-4.67	4.6	9.53	39	-38.74	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM1900
Test Mode = GPRS /TM1
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-2.46	4.6	9.53	39	-36.53	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM1900
Test Mode = GPRS /TM1
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3819.6	-2.96	4.6	9.53	39	-37.03	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM1900
Test Mode = EDGE /TM2
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3700.4	-1.74	4.6	9.53	39	-35.81	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM1900
Test Mode = EDGE /TM2
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-3.24	4.6	9.53	39	-37.31	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = GSM1900
Test Mode = EDGE /TM2
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3819.6	-5.58	4.6	9.53	39	-39.65	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = WCDMA1900

Test Mode = UMTS /TM3

Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3705	-11.21	4.6	9.53	39	-45.28	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits

Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = WCDMA1900

Test Mode = UMTS /TM3

Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-10.01	4.6	9.53	39	-44.08	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits

Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = WCDMA1900

Test Mode = UMTS /TM3

Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3815.2	-12.35	4.6	9.53	39	-46.42	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits

Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = WCDMA1700
Test Mode = UMTS /TM3
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3724.8	-11.08	4.1	9.41	39	-44.77	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = WCDMA1700
Test Mode = UMTS /TM3
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465.2	-12.36	4.1	9.41	39	-46.05	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = WCDMA1700
Test Mode = UMTS /TM3
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3505.2	-12.65	4.1	9.41	39	-46.34	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=1.4MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3701.4	-8.11	4.6	9.53	39	-42.18	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=1.4MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-7	4.6	9.53	39	-41.07	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=1.4MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3818.6	-8.28	4.6	9.53	39	-42.35	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=1.4MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3701.4	-7.72	4.6	9.53	39	-41.79	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=1.4MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-6.89	4.6	9.53	39	-40.96	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=1.4MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3818.6	-7.96	4.6	9.53	39	-42.03	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=3MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3703	-8.46	4.6	9.53	39	-42.53	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=3MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-7.55	4.6	9.53	39	-41.62	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=3MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3817	-6.79	4.6	9.53	39	-40.86	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=3MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3703	-8.67	4.6	9.53	39	-42.74	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=3MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-7.68	4.6	9.53	39	-41.75	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=3MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3817	-6.01	4.6	9.53	39	-40.08	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=5MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3705	-7.4	4.6	9.53	39	-41.47	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=5MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-8.36	4.6	9.53	39	-42.43	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=5MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3815	-6.89	4.6	9.53	39	-40.96	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=5MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3705	-8.98	4.6	9.53	39	-43.05	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=5MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-7.42	4.6	9.53	39	-41.49	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=5MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3815	-8.67	4.6	9.53	39	-42.74	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=10MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3710	-10.46	4.6	9.53	39	-44.53	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=10MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-6.78	4.6	9.53	39	-40.85	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=10MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3810	-8.57	4.6	9.53	39	-42.64	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=10MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3710	-6.76	4.6	9.53	39	-40.83	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=10MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-7.67	4.6	9.53	39	-41.74	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=10MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3810	-9.22	4.6	9.53	39	-43.29	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=15MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3715	-7.19	4.6	9.53	39	-41.26	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=15MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-9.45	4.6	9.53	39	-43.52	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=15MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3805	-6.89	4.6	9.53	39	-40.96	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=15MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3715	-8.01	4.6	9.53	39	-42.08	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=15MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-6.44	4.6	9.53	39	-40.51	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=15MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3805	-8.56	4.6	9.53	39	-42.63	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=20MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3720	-5.41	4.6	9.53	39	-39.48	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=20MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-7.75	4.6	9.53	39	-41.82	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = QPSK /TM4
Bandwidth=20MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3800	-9	4.6	9.53	39	-43.07	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=20MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3720	-7.16	4.6	9.53	39	-41.23	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=20MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3760	-9.17	4.6	9.53	39	-43.24	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 2
Test Mode = 16QAM /TM5
Bandwidth=20MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3800	-6.89	4.6	9.53	39	-40.96	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=1.4MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3421.4	-9.23	4.1	9.41	39	-42.92	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=1.4MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-7.73	4.1	9.41	39	-41.42	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=1.4MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3508.6	-7.94	4.1	9.41	39	-41.63	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=1.4MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3421.4	-9.37	4.1	9.41	39	-43.06	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=1.4MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-9.04	4.1	9.41	39	-42.73	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = Q16QAM /TM5
Bandwidth=1.4MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3508.6	-6.87	4.1	9.41	39	-40.56	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=3MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3423	-7.96	4.1	9.41	39	-41.65	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=3MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-6.4	4.1	9.41	39	-40.09	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=3MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3507	-8.84	4.1	9.41	39	-42.53	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=3MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3423	-7.17	4.1	9.41	39	-40.86	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=3MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-8.82	4.1	9.41	39	-42.51	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = Q16QAM /TM5
Bandwidth=3MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3507	-7.36	4.1	9.41	39	-41.05	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=5MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3425	-6.24	4.1	9.41	39	-39.93	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=5MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-7.88	4.1	9.41	39	-41.57	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=5MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3505	-9.16	4.1	9.41	39	-42.85	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=5MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3425	-8.05	4.1	9.41	39	-41.74	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=5MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-9.58	4.1	9.41	39	-43.27	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = Q16QAM /TM5
Bandwidth=5MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3505	-8.07	4.1	9.41	39	-41.76	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=10MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3430	-9.52	4.1	9.41	39	-43.21	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=10MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-8.25	4.1	9.41	39	-41.94	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=10MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3500	-9.57	4.1	9.41	39	-43.26	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=10MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3430	-6.82	4.1	9.41	39	-40.51	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=10MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-9.15	4.1	9.41	39	-42.84	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = Q16QAM /TM5
Bandwidth=10MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3500	-7.58	4.1	9.41	39	-41.27	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=15MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3435	-9.5	4.1	9.41	39	-43.19	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=15MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-8.67	4.1	9.41	39	-42.36	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=15MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3495	-7.14	4.1	9.41	39	-40.83	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=15MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3435	-7.39	4.1	9.41	39	-41.08	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=15MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-9.82	4.1	9.41	39	-43.51	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = Q16QAM /TM5
Bandwidth=15MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3495	-9.26	4.1	9.41	39	-42.95	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=20MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3440	-6.84	4.1	9.41	39	-40.53	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=20MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3465	-4.93	4.1	9.41	39	-38.62	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = QPSK /TM4
Bandwidth=20MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
3490	-8.06	4.1	9.41	39	-41.75	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=20MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (ERP) [dBm]		[dBm]
3440	-8.51	4.1	9.41	39	-42.2	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = 16QAM /TM5
Bandwidth=20MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (ERP) [dBm]		[dBm]
3465	-6.92	4.1	9.41	39	-40.61	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 4
Test Mode = Q16QAM /TM5
Bandwidth=20MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (ERP) [dBm]		[dBm]
3490	-7.65	4.1	9.41	39	-41.34	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=1.4MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1399.4	-5.57	0.9	6.49	40.6	-40.76	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=1.4MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1415	-7.52	0.9	6.49	40.6	-42.53	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=1.4MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1430.6	-6.08	0.9	6.49	40.6	-41.09	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = 16QAM /TM5
Bandwidth=1.4MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Pream p	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1399.4	-8.28	0.9	6.49	40.6	-43.29	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = 16QAM /TM5
Bandwidth=1.4MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1415	-6.26	0.9	6.49	40.6	-41.27	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = Q16QAM /TM5
Bandwidth=1.4MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1430.6	-8.03	0.9	6.49	40.6	-43.04	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=3MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Pream p	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1401	-6.32	0.9	6.49	40.6	-41.33	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=3MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1415	-7.55	0.9	6.49	40.6	-42.56	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=3MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1429	-5.71	0.9	6.49	40.6	-40.72	Vertical I	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = 16QAM /TM5
Bandwidth=3MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Pream p	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1401	-8.01	0.9	6.49	40.6	-43.02	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = 16QAM /TM5
Bandwidth=3MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1415	-6.24	0.9	6.49	40.6	-41.25	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = 16QAM /TM5
Bandwidth=3MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1429	-5.85	0.9	6.49	40.6	-40.86	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=5MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Pream p	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1403	-7.36	0.9	6.49	40.6	-42.37	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=5MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1415	-8.04	0.9	6.49	40.6	-43.05	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=5MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1427	-6.31	0.9	6.49	40.6	-41.32	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = 16QAM /TM5
Bandwidth=5MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Pream p	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1403	-5.95	0.9	6.49	40.6	-40.96	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = 16QAM /TM5
Bandwidth=5MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1415	-6.41	0.9	6.49	40.6	-41.42	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = Q16QAM /TM5
Bandwidth=5MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1427	-8.04	0.9	6.49	40.6	-43.05	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=10MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Pream p	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1408	-6.85	0.9	6.49	40.6	-41.86	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=10MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1415	-5.44	0.9	6.49	40.6	-40.45	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = QPSK /TM4
Bandwidth=10MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1422	-8.25	0.9	6.49	40.6	-43.26	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = 16QAM /TM5
Bandwidth=10MHz
Test Channel = LCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Pream p	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1408	-6.47	0.9	6.49	40.6	-41.48	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = 16QAM /TM5
Bandwidth=10MHz
Test Channel = MCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1415	-8.51	0.9	6.49	40.6	-43.52	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

Test Band = LTE Band 12
Test Mode = Q16QAM /TM5
Bandwidth=10MHz
Test Channel = HCH

Freq.	SG. Level	Cable Loss	Antenna Gain	Preamp	Substitution	polarization	Limit
[MHz]	[dBm]	[dB]	[dBi]	dB	Level (EIRP) [dBm]		[dBm]
1422	-6.64	0.9	6.49	40.6	-41.65	Vertical	-13

The emissions don' t show in above result tables are more than 20dB below the limits
Note: both of Vertical and Horizontal polarization are evaluated, and only the worst case is recorded in this report

4.6. Frequency Stability

CFR 47 (FCC) part 2.1055, 22.355 , 24.235 and 27.54

4.6.1. Test Limit

According to part 22.355, from 821MHz to 896MHz, for mobile device, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances 2.5ppm.

4.6.2. Test Procedure

GSM/WCDMA

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMU 200 Universal Radio Communication Tester.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30 °C.
3. With the EUT, powered via nominal voltage, connected to the CMU 200 and in a simulated call on mid channel (190 for GSM 850 & 4183 for WCDMA 850 & 661 for PCS1900 & 9400 for WCDMA 1900 & 1413 for WCDMA 1700), measure the carrier frequency. These measurements should be made within 2 minutes of powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10 °C increments from -30 °C to +50 °C. Allow at least 1 1/2 hours at each temperature, un-powered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Re-measure carrier frequency at low and high voltage. Pause at nominal voltage for 1 1/2 hours un-powered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50 °C.
7. With the EUT, powered via nominal voltage, connected to the CMU 200 and in a simulated call on mid channel (190 for GSM 850 & 4183 for WCDMA 850 & 661 for PCS1900 & 9400 for WCDMA 1900 & 1413 for WCDMA 1700), measure the carrier frequency. These measurements should be made within 2 minutes of powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50 °C to -30 °C. Allow at least 1 1/2 hours at each temperature, un-powered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5 °C during the measurement procedure.

LTE

1. The transmitter output (antenna port) was connected to the BS Simulator.
2. The BS simulator was used to set the TX channel and power level and modulate the TX signal with different bit patterns.
3. BS simulator used the frequency error function and measured the peak frequency error. Power must be removed when changing from one temperature to another or one voltage to another voltage. Power warm up is at least 15 min and power applied should perform before recording frequency error. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
4. EUT is connected the external power supply to control the DC input power. The various Volts from the minimum 3.5 Volts to 4.2 Volts. Each step shall be record the frequency error rate.

5. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

6. Extreme temperature rule is -30°C~50°C.

4.6.3. Test Setup

Connect the EUT to the Wireless Communication test set CMU200 or CMW 500 via the connector. Then measure the frequency error by the Wireless Communication test set CMU200/CMW 500. The EUT's output is matched with a 50 Ω load.

4.6.4. Test Data

Measurement Results vs. Variation of Temperature—GPRS850

Temperature	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 °C	836.6	10.72	Pass
-20 °C	836.6	8.98	Pass
-10 °C	836.6	9.81	Pass
0 °C	836.6	8.85	Pass
+10 °C	836.6	8.72	Pass
+20 °C	836.6	8.98	Pass
+30 °C	836.6	8.72	Pass
+40 °C	836.6	11.30	Pass
+50 °C	836.6	10.65	Pass

Measurement Results vs. Variation of Voltage—GPRS850

Voltage	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
3.5 V	836.6	10.85	Pass
3.7 V	836.6	8.01	Pass
4.2 V	836.6	9.88	Pass

Measurement Results vs. Variation of Temperature—EDGE850

Temperature	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 °C	836.6	13.88	Pass
-20 °C	836.6	13.85	Pass
-10 °C	836.6	12.49	Pass
0 °C	836.6	12.07	Pass
+10 °C	836.6	11.04	Pass
+20 °C	836.6	13.40	Pass
+30 °C	836.6	13.04	Pass
+40 °C	836.6	12.04	Pass
+50 °C	836.6	11.85	Pass

Measurement Results vs. Variation of Voltage—EDGE850

Voltage	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
3.5 V	836.6	12.53	Pass
3.7 V	836.6	13.27	Pass
4.2 V	836.6	13.04	Pass

Measurement Results vs. Variation of Temperature—WCDMA850

Temperature	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 °C	836.6	2.94	Pass
-20 °C	836.6	-4.71	Pass
-10 °C	836.6	-1.42	Pass
0 °C	836.6	1.31	Pass
+10 °C	836.6	-8.79	Pass
+20 °C	836.6	-2.15	Pass
+30 °C	836.6	-2.08	Pass
+40 °C	836.6	-1.39	Pass
+50 °C	836.6	-0.44	Pass

Measurement Results vs. Variation of Voltage—WCDMA850

Voltage	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
3.5 V	836.6	-4.64	Pass
3.7 V	836.6	-2.84	Pass
4.2 V	836.6	-5.77	Pass

Measurement Results vs. Variation of Temperature—GPRS1900

Temperature	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 °C	1880.0	6.68	Pass
-20 °C	1880.0	8.65	Pass
-10 °C	1880.0	11.01	Pass
0 °C	1880.0	9.59	Pass
+10 °C	1880.0	8.52	Pass
+20 °C	1880.0	4.13	Pass
+30 °C	1880.0	7.59	Pass
+40 °C	1880.0	12.27	Pass
+50 °C	1880.0	10.72	Pass

Measurement Results vs. Variation of Voltage—GPRS1900

Voltage	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
3.5 V	1880.0	6.62	Pass
3.7 V	1880.0	6.65	Pass
4.2 V	1880.0	7.14	Pass

Measurement Results vs. Variation of Temperature—EDGE1900

Temperature	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 °C	1880.0	6.68	Pass
-20 °C	1880.0	8.65	Pass
-10 °C	1880.0	11.01	Pass
0 °C	1880.0	9.59	Pass
+10 °C	1880.0	8.52	Pass
+20 °C	1880.0	4.13	Pass
+30 °C	1880.0	7.59	Pass
+40 °C	1880.0	12.27	Pass
+50 °C	1880.0	10.72	Pass

Measurement Results vs. Variation of Voltage—EDGE1900

Voltage	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
3.5 V	1880.0	6.62	Pass
3.7 V	1880.0	6.65	Pass
4.2 V	1880.0	7.14	Pass

Measurement Results vs. Variation of Temperature—WCDMA1900

Temperature	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 °C	1880.0	0.50	Pass
-20 °C	1880.0	1.85	Pass
-10 °C	1880.0	-4.10	Pass
0 °C	1880.0	-4.85	Pass
+10 °C	1880.0	-3.19	Pass
+20 °C	1880.0	-0.60	Pass
+30 °C	1880.0	5.22	Pass
+40 °C	1880.0	-5.26	Pass
+50 °C	1880.0	-2.33	Pass

Measurement Results vs. Variation of Voltage—WCDMA1900

Voltage	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
3.5 V	1880.0	-3.14	Pass
3.7 V	1880.0	-0.35	Pass
4.2 V	1880.0	-6.62	Pass

Measurement Results vs. Variation of Temperature—WCDMA1700

Temperature	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
-30 °C	1732.6	0.40	Pass
-20 °C	1732.6	-0.70	Pass
-10 °C	1732.6	-4.36	Pass
0 °C	1732.6	-1.62	Pass
+10 °C	1732.6	-1.80	Pass
+20 °C	1732.6	-2.12	Pass
+30 °C	1732.6	-5.10	Pass
+40 °C	1732.6	-0.61	Pass
+50 °C	1732.6	-0.41	Pass

Measurement Results vs. Variation of Voltage—WCDMA1700

Voltage	Nominal Frequency (MHz)	Measured Frequency Error(Hz)	Result
3.5 V	1732.6	-0.69	Pass
3.7 V	1732.6	-1.14	Pass
4.2V	1732.6	-1.42	Pass

Measurement Results vs. Variation of Voltage—LTE Band 2(1.4MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1880	3.5	-1.75	PASS
		3.7	-3.66	PASS
		4.2	0.76	PASS
16QAM	1880	3.5	-3.00	PASS
		3.7	-3.66	PASS
		4.2	-0.50	PASS

Measurement Results vs. Variation of Temperature—LTE Band 2(1.4MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1880	-30 °C	0.09	PASS
		-20 °C	-1.30	PASS
		-10 °C	-0.73	PASS
		0 °C	-0.92	PASS
		+10 °C	-2.30	PASS
		+20 °C	-3.25	PASS
		+30 °C	-2.76	PASS
		+40 °C	-3.06	PASS
		+50 °C	0.23	PASS
16QAM	1880	-30 °C	-2.79	PASS
		-20 °C	-1.76	PASS
		-10 °C	-2.53	PASS
		0 °C	-2.70	PASS
		+10 °C	-5.11	PASS
		+20 °C	-2.43	PASS
		+30 °C	-3.38	PASS
		+40 °C	-4.56	PASS
		+50 °C	-0.77	PASS

Measurement Results vs. Variation of Voltage—LTE Band 2(3MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1880	3.5	-2.63	PASS
		3.7	-4.26	PASS
		4.2	0.06	PASS
16QAM	1880	3.5	-1.10	PASS
		3.7	-1.34	PASS
		4.2	0.72	PASS

Measurement Results vs. Variation of Temperature—LTE Band 2(3MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1880	-30 °C	-2.19	PASS
		-20 °C	-0.84	PASS
		-10 °C	-1.85	PASS
		0 °C	-0.96	PASS
		+10 °C	-5.04	PASS
		+20 °C	-4.84	PASS
		+30 °C	-4.18	PASS
		+40 °C	-2.46	PASS
		+50 °C	-0.53	PASS
16QAM	1880	-30 °C	-2.49	PASS
		-20 °C	-3.49	PASS
		-10 °C	-1.59	PASS
		0 °C	-2.35	PASS
		+10 °C	-2.60	PASS
		+20 °C	-3.30	PASS
		+30 °C	-4.09	PASS
		+40 °C	-3.46	PASS
		+50 °C	0.44	PASS

Measurement Results vs. Variation of Voltage—LTE Band 2(5MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1880	3.5	-2.79	PASS
		3.7	-2.36	PASS
		4.2	2.32	PASS
16QAM	1880	3.5	-1.34	PASS
		3.7	-2.82	PASS
		4.2	-1.06	PASS

Measurement Results vs. Variation of Temperature—LTE Band 2(5MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1880	-30 °C	-1.97	PASS
		-20 °C	-1.52	PASS
		-10 °C	-0.49	PASS
		0 °C	-1.73	PASS
		+10 °C	-2.36	PASS
		+20 °C	-2.03	PASS
		+30 °C	-2.26	PASS
		+40 °C	-0.99	PASS
		+50 °C	1.12	PASS
16QAM	1880	-30 °C	-1.97	PASS
		-20 °C	-2.35	PASS
		-10 °C	-1.49	PASS
		0 °C	-1.17	PASS
		+10 °C	-1.80	PASS
		+20 °C	-3.76	PASS
		+30 °C	-3.53	PASS
		+40 °C	-2.59	PASS
		+50 °C	0.21	PASS

Measurement Results vs. Variation of Voltage—LTE Band 2(10MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1880	3.5	-3.55	PASS
		3.7	-3.33	PASS
		4.2	0.89	PASS
16QAM	1880	3.5	-2.46	PASS
		3.7	-3.25	PASS
		4.2	0.49	PASS

Measurement Results vs. Variation of Temperature—LTE Band 2(10MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1880	-30 °C	-2.39	PASS
		-20 °C	-1.37	PASS
		-10 °C	-2.50	PASS
		0 °C	-1.43	PASS
		+10 °C	-4.06	PASS
		+20 °C	-5.02	PASS
		+30 °C	-3.32	PASS
		+40 °C	-3.32	PASS
		+50 °C	0.90	PASS
16QAM	1880	-30 °C	-1.56	PASS
		-20 °C	-3.78	PASS
		-10 °C	-2.49	PASS
		0 °C	-3.92	PASS
		+10 °C	-3.32	PASS
		+20 °C	-2.02	PASS
		+30 °C	-3.78	PASS
		+40 °C	-4.03	PASS
		+50 °C	1.27	PASS

Measurement Results vs. Variation of Voltage—LTE Band 2(15MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1880	3.5	-3.28	PASS
		3.7	-5.09	PASS
		4.2	-3.95	PASS
16QAM	1880	3.5	-2.57	PASS
		3.7	-5.79	PASS
		4.2	-2.83	PASS

Measurement Results vs. Variation of Temperature—LTE Band 2(15MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1880	-30 °C	-3.83	PASS
		-20 °C	-2.75	PASS
		-10 °C	-4.12	PASS
		0 °C	-3.95	PASS
		+10 °C	-5.12	PASS
		+20 °C	-4.42	PASS
		+30 °C	-4.23	PASS
		+40 °C	-3.52	PASS
		+50 °C	-2.19	PASS
16QAM	1880	-30 °C	-4.01	PASS
		-20 °C	-4.18	PASS
		-10 °C	-4.38	PASS
		0 °C	-4.13	PASS
		+10 °C	-5.55	PASS
		+20 °C	-6.84	PASS
		+30 °C	-5.31	PASS
		+40 °C	-5.44	PASS
		+50 °C	-2.92	PASS

Measurement Results vs. Variation of Voltage—LTE Band 2(20MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1880	3.5	1.27	PASS
		3.7	-3.58	PASS
		4.2	-2.13	PASS
16QAM	1880	3.5	-2.93	PASS
		3.7	-3.83	PASS
		4.2	-2.30	PASS

Measurement Results vs. Variation of Temperature—LTE Band 2(20MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1880	-30 °C	0.09	PASS
		-20 °C	0.50	PASS
		-10 °C	2.96	PASS
		0 °C	-7.22	PASS
		+10 °C	-3.76	PASS
		+20 °C	-3.76	PASS
		+30 °C	-3.28	PASS
		+40 °C	-4.43	PASS
		+50 °C	-2.72	PASS
16QAM	1880	-30 °C	-2.46	PASS
		-20 °C	1.95	PASS
		-10 °C	0.14	PASS
		0 °C	11.20	PASS
		+10 °C	-4.38	PASS
		+20 °C	-3.63	PASS
		+30 °C	-3.83	PASS
		+40 °C	-3.95	PASS
		+50 °C	-4.62	PASS

Measurement Results vs. Variation of Voltage—LTE Band 4(1.4MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	3.5	2.93	PASS
		3.7	0.80	PASS
		4.2	-1.89	PASS
16QAM	1732.5	3.5	0.06	PASS
		3.7	0.79	PASS
		4.2	-3.06	PASS

Measurement Results vs. Variation of Temperature—LTE Band 4(1.4MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	-30 °C	1.40	PASS
		-20 °C	0.94	PASS
		-10 °C	0.93	PASS
		0 °C	2.12	PASS
		+10 °C	0.07	PASS
		+20 °C	1.27	PASS
		+30 °C	1.95	PASS
		+40 °C	1.50	PASS
		+50 °C	-3.25	PASS
16QAM	1732.5	-30 °C	0.37	PASS
		-20 °C	0.01	PASS
		-10 °C	1.34	PASS
		0 °C	2.15	PASS
		+10 °C	0.00	PASS
		+20 °C	0.39	PASS
		+30 °C	-0.19	PASS
		+40 °C	-0.03	PASS
		+50 °C	-4.13	PASS

Measurement Results vs. Variation of Voltage—LTE Band 4(3MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	3.5	-0.10	PASS
		3.7	-0.01	PASS
		4.2	0.79	PASS
16QAM	1732.5	3.5	0.49	PASS
		3.7	2.46	PASS
		4.2	0.26	PASS

Measurement Results vs. Variation of Temperature—LTE Band 4(3MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	-30 °C	2.02	PASS
		-20 °C	1.03	PASS
		-10 °C	-1.42	PASS
		0 °C	1.00	PASS
		+10 °C	0.70	PASS
		+20 °C	0.24	PASS
		+30 °C	0.39	PASS
		+40 °C	0.70	PASS
		+50 °C	0.23	PASS
16QAM	1732.5	-30 °C	0.66	PASS
		-20 °C	1.10	PASS
		-10 °C	2.22	PASS
		0 °C	1.93	PASS
		+10 °C	0.86	PASS
		+20 °C	-0.30	PASS
		+30 °C	0.53	PASS
		+40 °C	0.97	PASS
		+50 °C	1.29	PASS

Measurement Results vs. Variation of Voltage—LTE Band 4(5MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	3.5	1.36	PASS
		3.7	0.66	PASS
		4.2	-1.96	PASS
16QAM	1732.5	3.5	3.13	PASS
		3.7	0.82	PASS
		4.2	-3.20	PASS

Measurement Results vs. Variation of Temperature—LTE Band 4(5MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	-30 °C	1.03	PASS
		-20 °C	1.57	PASS
		-10 °C	4.39	PASS
		0 °C	1.92	PASS
		+10 °C	0.80	PASS
		+20 °C	0.54	PASS
		+30 °C	1.14	PASS
		+40 °C	2.19	PASS
		+50 °C	-3.76	PASS
16QAM	1732.5	-30 °C	2.83	PASS
		-20 °C	2.99	PASS
		-10 °C	1.86	PASS
		0 °C	1.57	PASS
		+10 °C	-0.01	PASS
		+20 °C	0.39	PASS
		+30 °C	0.96	PASS
		+40 °C	0.73	PASS
		+50 °C	-3.66	PASS

Measurement Results vs. Variation of Voltage—LTE Band 4(10MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	3.5	-3.02	PASS
		3.7	0.44	PASS
		4.2	3.50	PASS
16QAM	1732.5	3.5	-1.62	PASS
		3.7	-1.03	PASS
		4.2	1.42	PASS

Measurement Results vs. Variation of Temperature—LTE Band 4(10MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	-30 °C	-2.79	PASS
		-20 °C	-2.88	PASS
		-10 °C	-3.56	PASS
		0 °C	-2.88	PASS
		+10 °C	-0.90	PASS
		+20 °C	-0.51	PASS
		+30 °C	0.40	PASS
		+40 °C	1.37	PASS
		+50 °C	1.86	PASS
16QAM	1732.5	-30 °C	-4.03	PASS
		-20 °C	-2.79	PASS
		-10 °C	-3.59	PASS
		0 °C	-1.83	PASS
		+10 °C	-0.90	PASS
		+20 °C	-1.63	PASS
		+30 °C	0.26	PASS
		+40 °C	-0.74	PASS
		+50 °C	2.10	PASS

Measurement Results vs. Variation of Voltage—LTE Band 4(15MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	3.5	0.96	PASS
		3.7	1.62	PASS
		4.2	0.37	PASS
16QAM	1732.5	3.5	-0.40	PASS
		3.7	1.44	PASS
		4.2	0.13	PASS

Measurement Results vs. Variation of Temperature—LTE Band 4(15MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	-30 °C	-0.23	PASS
		-20 °C	-0.36	PASS
		-10 °C	-0.29	PASS
		0 °C	0.63	PASS
		+10 °C	0.84	PASS
		+20 °C	0.26	PASS
		+30 °C	-0.24	PASS
		+40 °C	0.77	PASS
		+50 °C	2.19	PASS
16QAM	1732.5	-30 °C	-0.87	PASS
		-20 °C	0.93	PASS
		-10 °C	0.09	PASS
		0 °C	-0.06	PASS
		+10 °C	1.77	PASS
		+20 °C	0.13	PASS
		+30 °C	0.69	PASS
		+40 °C	1.07	PASS
		+50 °C	1.43	PASS

Measurement Results vs. Variation of Voltage—LTE Band 4(20MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	3.5	0.17	PASS
		3.7	0.56	PASS
		4.2	-1.67	PASS
16QAM	1732.5	3.5	2.00	PASS
		3.7	-0.37	PASS
		4.2	-2.00	PASS

Measurement Results vs. Variation of Temperature—LTE Band 4(20MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	1732.5	-30 °C	1.50	PASS
		-20 °C	0.47	PASS
		-10 °C	1.97	PASS
		0 °C	2.56	PASS
		+10 °C	0.73	PASS
		+20 °C	0.94	PASS
		+30 °C	-0.10	PASS
		+40 °C	-0.57	PASS
		+50 °C	-2.88	PASS
16QAM	1732.5	-30 °C	1.57	PASS
		-20 °C	2.52	PASS
		-10 °C	2.55	PASS
		0 °C	2.42	PASS
		+10 °C	0.54	PASS
		+20 °C	1.22	PASS
		+30 °C	0.31	PASS
		+40 °C	0.04	PASS
		+50 °C	-3.05	PASS

Measurement Results vs. Variation of Voltage—LTE Band 12(1.4MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	707.5	3.5	0.86	PASS
		3.7	-0.60	PASS
		4.2	-0.86	PASS
16QAM	707.5	3.5	0.47	PASS
		3.7	-0.06	PASS
		4.2	-0.11	PASS

Measurement Results vs. Variation of Temperature—LTE Band 12(1.4MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	707.5	-30 °C	-0.10	PASS
		-20 °C	0.34	PASS
		-10 °C	0.49	PASS
		0 °C	0.46	PASS
		+10 °C	0.13	PASS
		+20 °C	-1.43	PASS
		+30 °C	-0.27	PASS
		+40 °C	-0.87	PASS
		+50 °C	-1.36	PASS
16QAM	707.5	-30 °C	0.01	PASS
		-20 °C	1.34	PASS
		-10 °C	-0.69	PASS
		0 °C	0.20	PASS
		+10 °C	-0.70	PASS
		+20 °C	-0.67	PASS
		+30 °C	-1.59	PASS
		+40 °C	-0.73	PASS
		+50 °C	-1.17	PASS

Measurement Results vs. Variation of Voltage—LTE Band 12(3MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	707.5	3.5	-1.63	PASS
		3.7	0.62	PASS
		4.2	0.04	PASS
16QAM	707.5	3.5	-1.39	PASS
		3.7	-0.30	PASS
		4.2	0.03	PASS

Measurement Results vs. Variation of Temperature—LTE Band 12(3MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	707.5	-30 °C	-1.80	PASS
		-20 °C	-1.47	PASS
		-10 °C	-1.69	PASS
		0 °C	-1.13	PASS
		+10 °C	-0.56	PASS
		+20 °C	-0.62	PASS
		+30 °C	-1.10	PASS
		+40 °C	-1.19	PASS
		+50 °C	-1.09	PASS
16QAM	707.5	-30 °C	-1.73	PASS
		-20 °C	-1.47	PASS
		-10 °C	-1.30	PASS
		0 °C	-1.32	PASS
		+10 °C	-0.63	PASS
		+20 °C	0.17	PASS
		+30 °C	-0.90	PASS
		+40 °C	-1.36	PASS
		+50 °C	-0.84	PASS

Measurement Results vs. Variation of Voltage—LTE Band 12(5MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	707.5	3.5	0.40	PASS
		3.7	-0.63	PASS
		4.2	-0.73	PASS
16QAM	707.5	3.5	-1.19	PASS
		3.7	0.63	PASS
		4.2	-0.63	PASS

Measurement Results vs. Variation of Temperature—LTE Band 12(5MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	707.5	-30 °C	-0.39	PASS
		-20 °C	-1.42	PASS
		-10 °C	-0.31	PASS
		0 °C	-0.92	PASS
		+10 °C	-0.49	PASS
		+20 °C	-1.76	PASS
		+30 °C	-0.72	PASS
		+40 °C	-0.90	PASS
		+50 °C	-1.76	PASS
16QAM	707.5	-30 °C	-1.66	PASS
		-20 °C	0.46	PASS
		-10 °C	0.41	PASS
		0 °C	0.10	PASS
		+10 °C	-0.13	PASS
		+20 °C	-1.34	PASS
		+30 °C	-0.50	PASS
		+40 °C	-0.27	PASS
		+50 °C	1.37	PASS

Measurement Results vs. Variation of Voltage—LTE Band 12(10MHZ)

Modulation	Nominal Frequency (MHz)	Voltage [Vdc]	Measured Frequency Error(Hz)	Verdict
QPSK	707.5	3.5	-0.36	PASS
		3.7	-0.09	PASS
		4.2	-0.99	PASS
16QAM	707.5	3.5	-0.31	PASS
		3.7	-0.82	PASS
		4.2	-1.16	PASS

Measurement Results vs. Variation of Temperature—LTE Band 12(10MHZ)

Modulation	Nominal Frequency (MHz)	Temperature	Measured Frequency Error(Hz)	Verdict
QPSK	707.5	-30 °C	0.47	PASS
		-20 °C	-0.93	PASS
		-10 °C	-0.41	PASS
		0 °C	-0.20	PASS
		+10 °C	-0.43	PASS
		+20 °C	-0.37	PASS
		+30 °C	-0.70	PASS
		+40 °C	0.03	PASS
		+50 °C	-2.55	PASS
16QAM	707.5	-30 °C	-0.73	PASS
		-20 °C	-0.90	PASS
		-10 °C	-0.83	PASS
		0 °C	-0.36	PASS
		+10 °C	0.26	PASS
		+20 °C	-0.67	PASS
		+30 °C	-0.41	PASS
		+40 °C	-0.34	PASS
		+50 °C	-1.52	PASS