3.6 Conducted Spurious Emission Measurement

3.6.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30MHz up to a frequency including its 10^{th} harmonic.

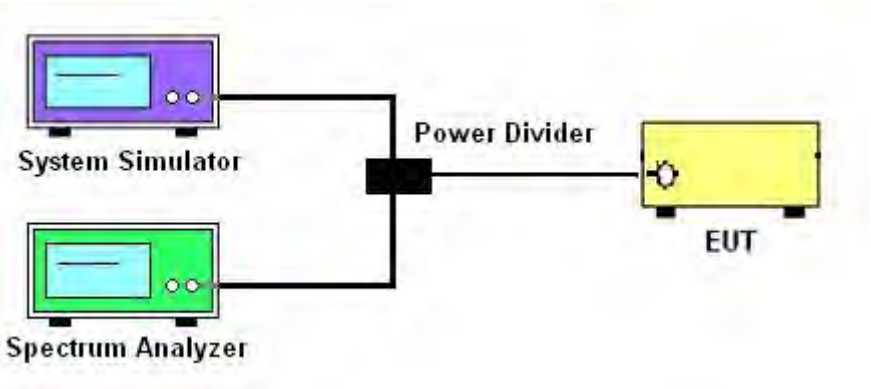
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
   = -13dBm.
8. The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

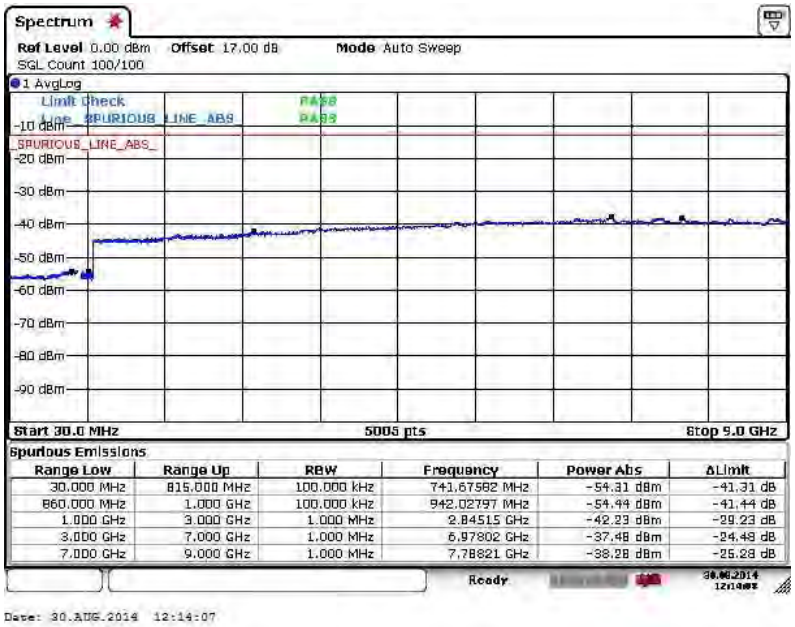
3.6.4 Test Setup



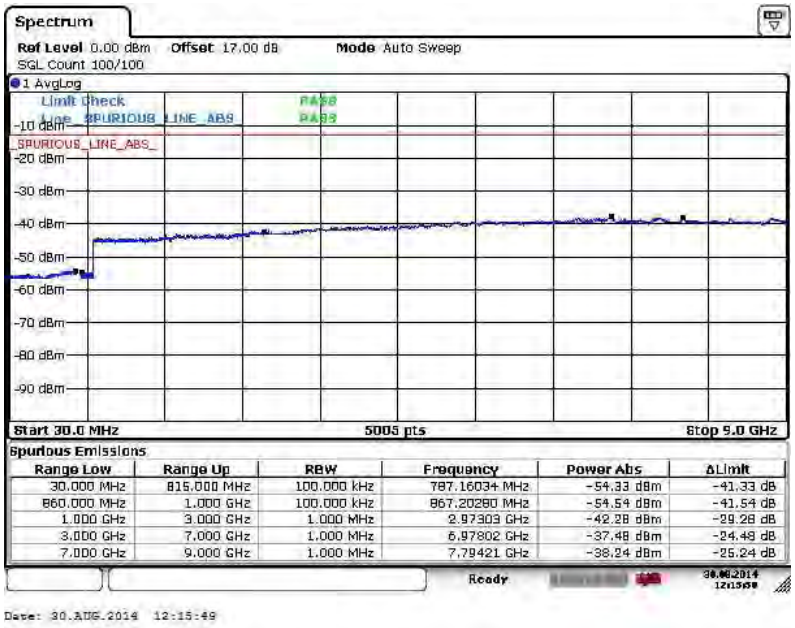
3.6.5 Test Result (Plots) of Conducted Spurious Emission

Band :	LTE Band 5	Channel :	CH20407 (Low)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

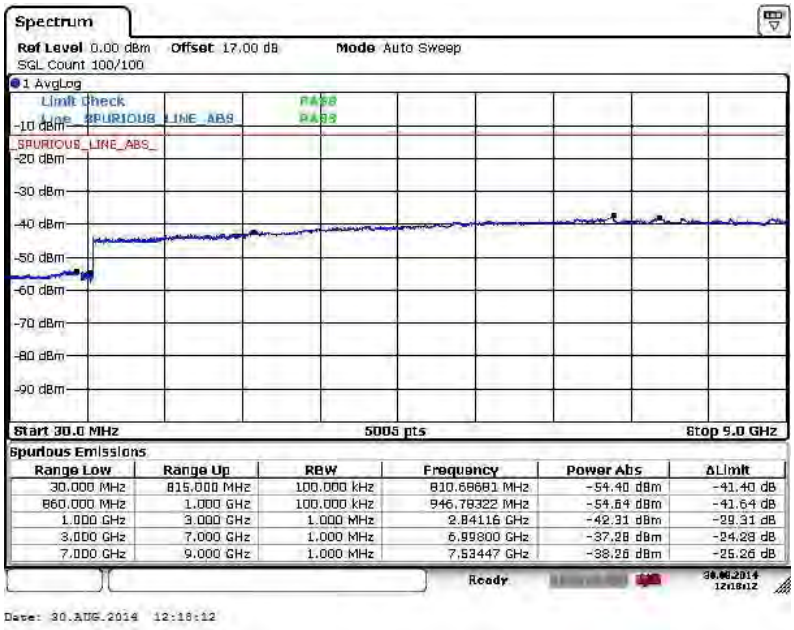


16QAM (RB Size 1, RB Offset 0)

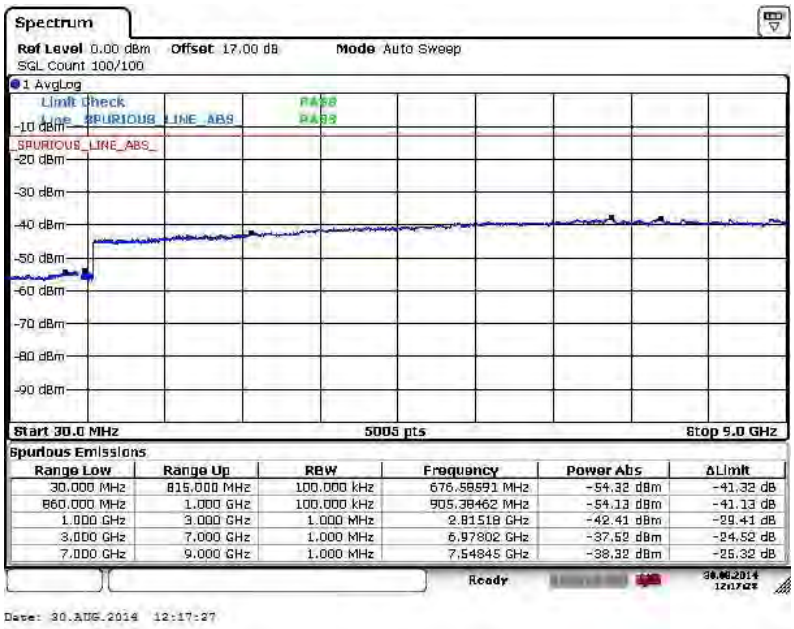


Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

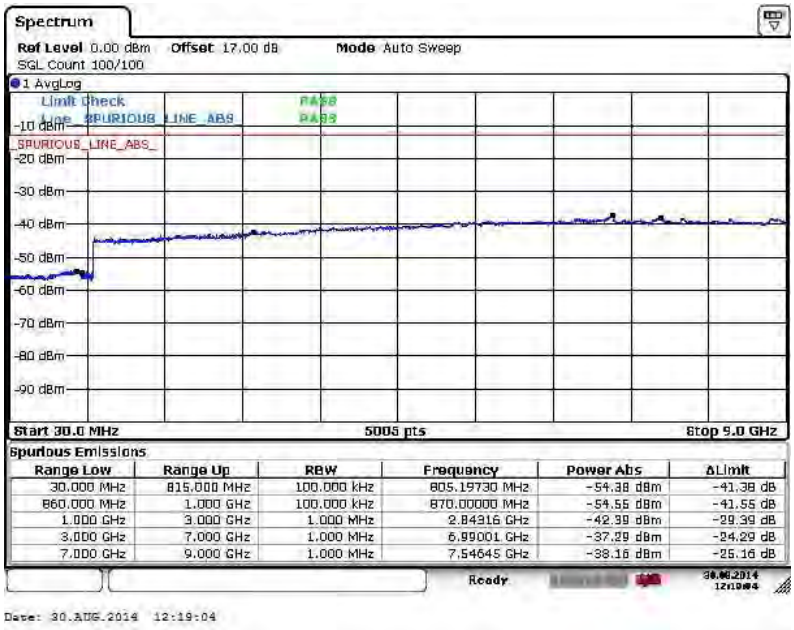


16QAM (RB Size 1, RB Offset 0)

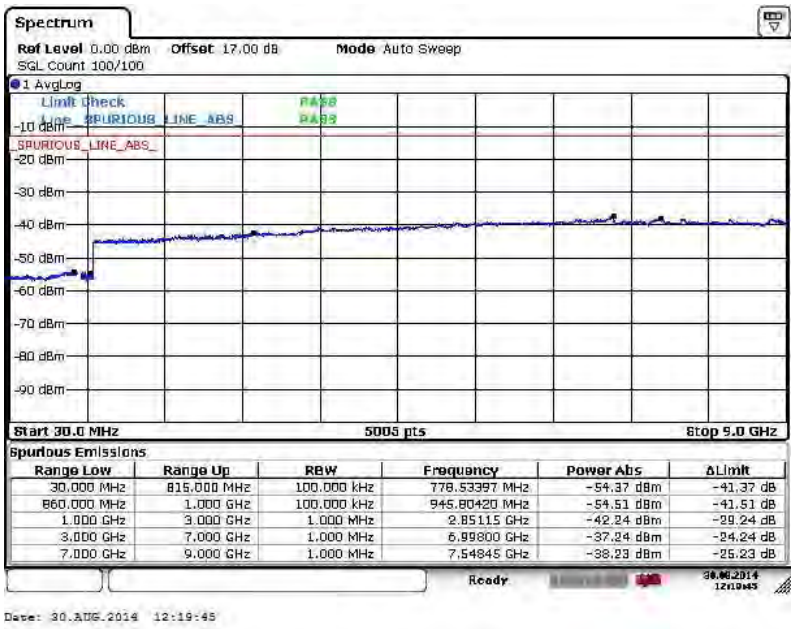


Band :	LTE Band 5	Channel :	CH20643 (High)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

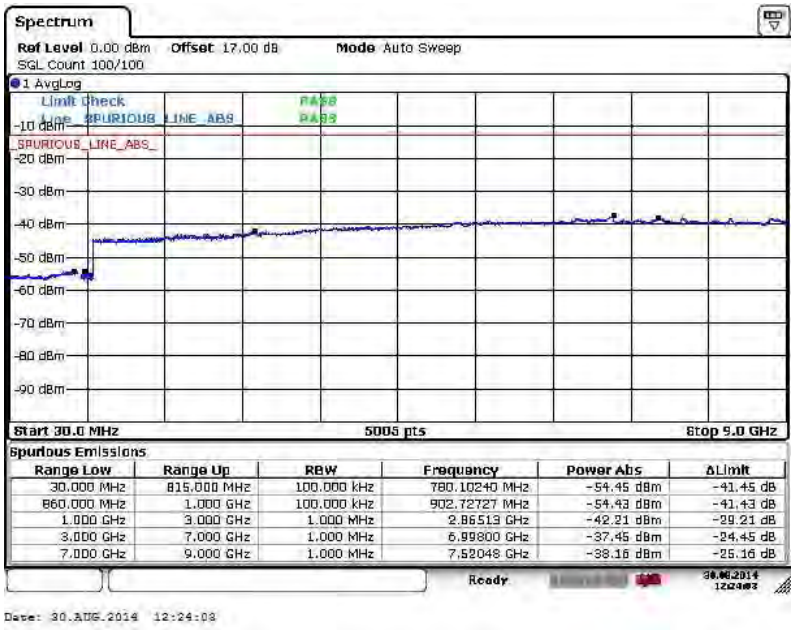


16QAM (RB Size 1, RB Offset 0)

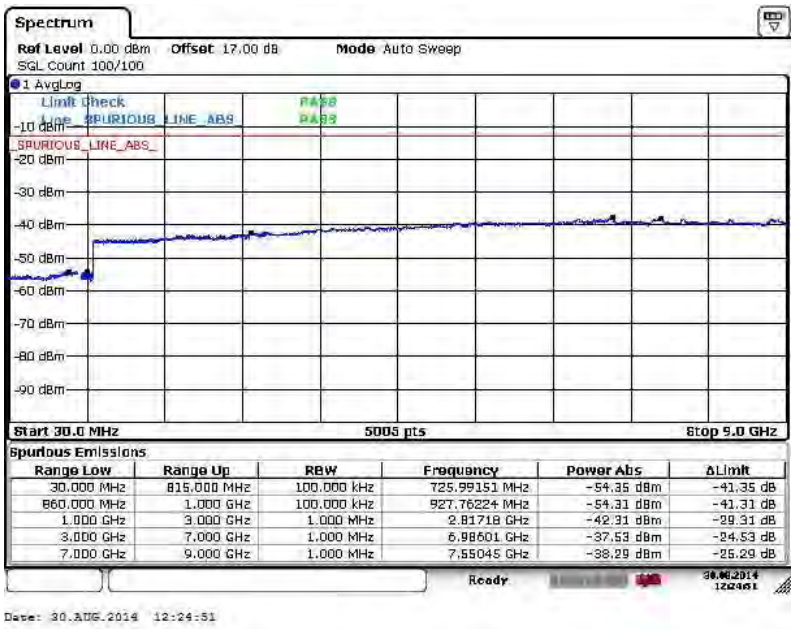


Band :	LTE Band 5	Channel :	CH20415 (Low)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

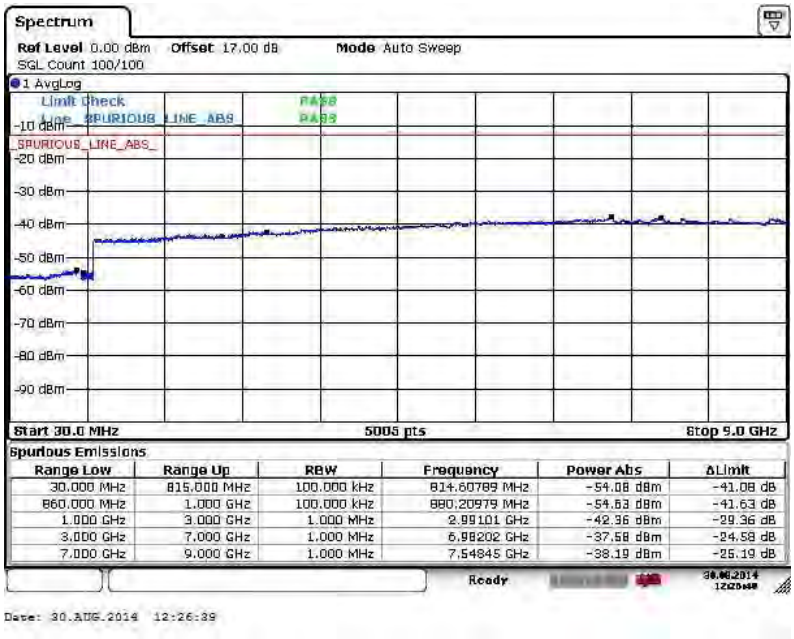


16QAM (RB Size 1, RB Offset 0)

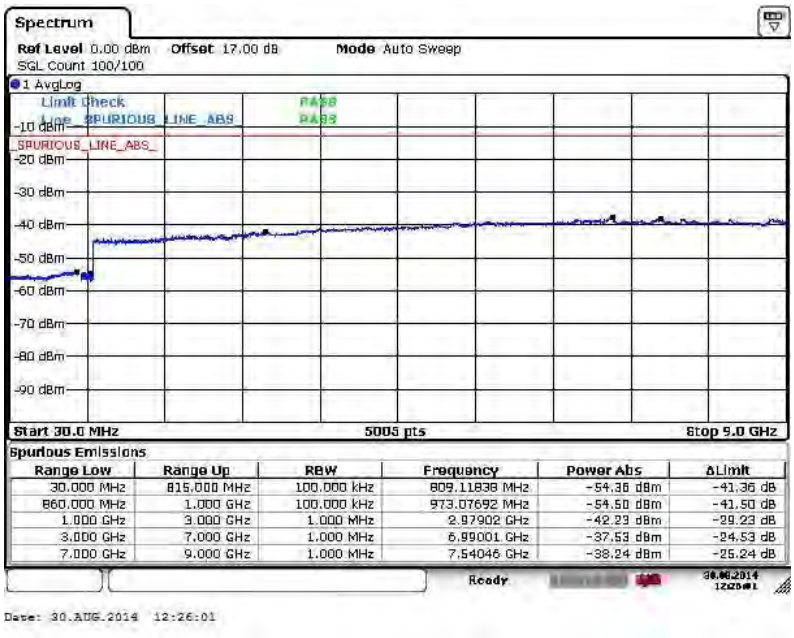


Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

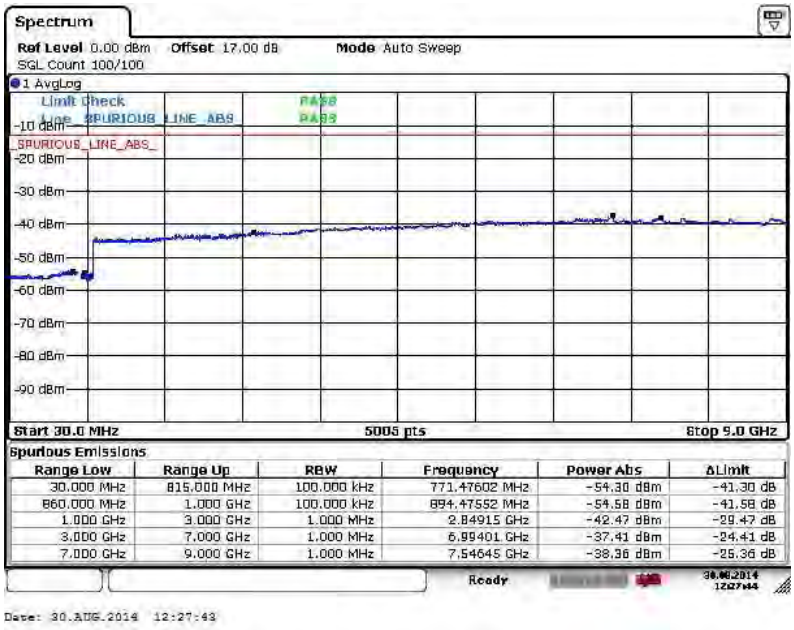


16QAM (RB Size 1, RB Offset 0)

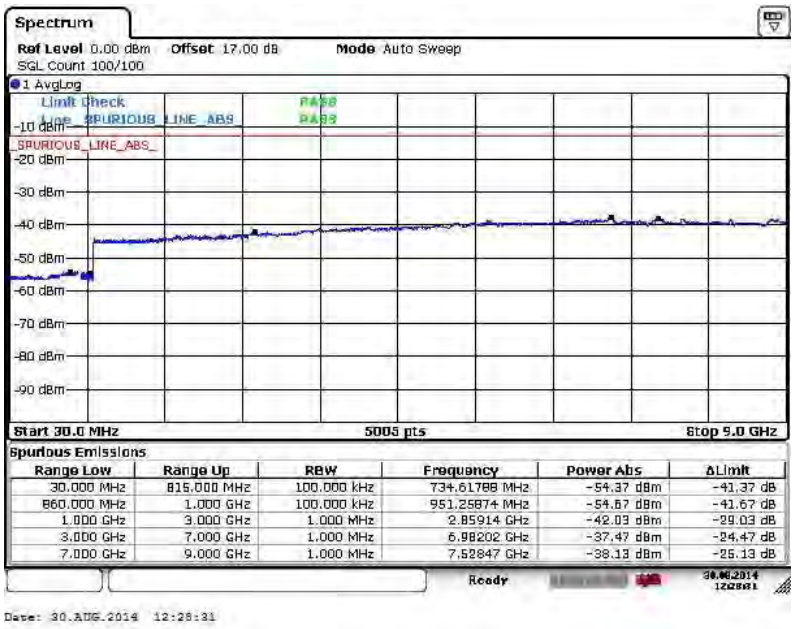


Band :	LTE Band 5	Channel :	CH20635 (High)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

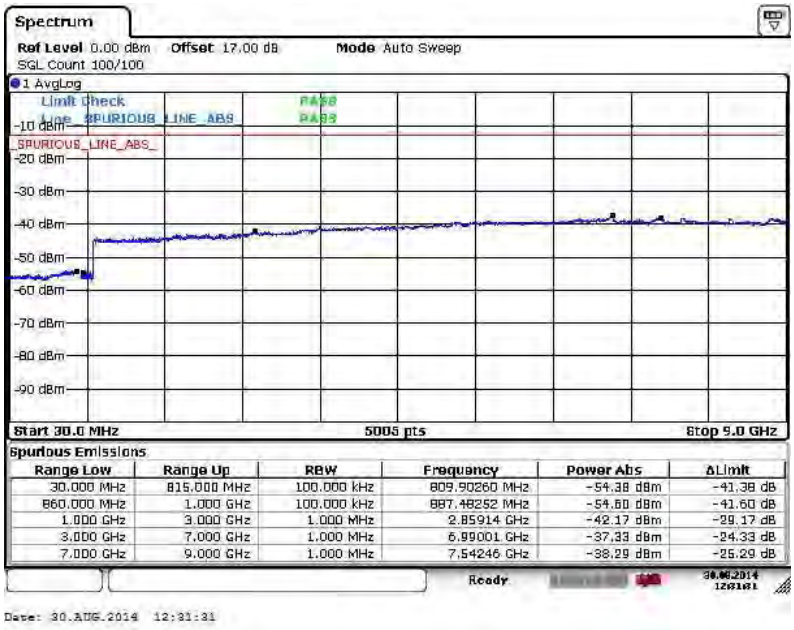


16QAM (RB Size 1, RB Offset 0)

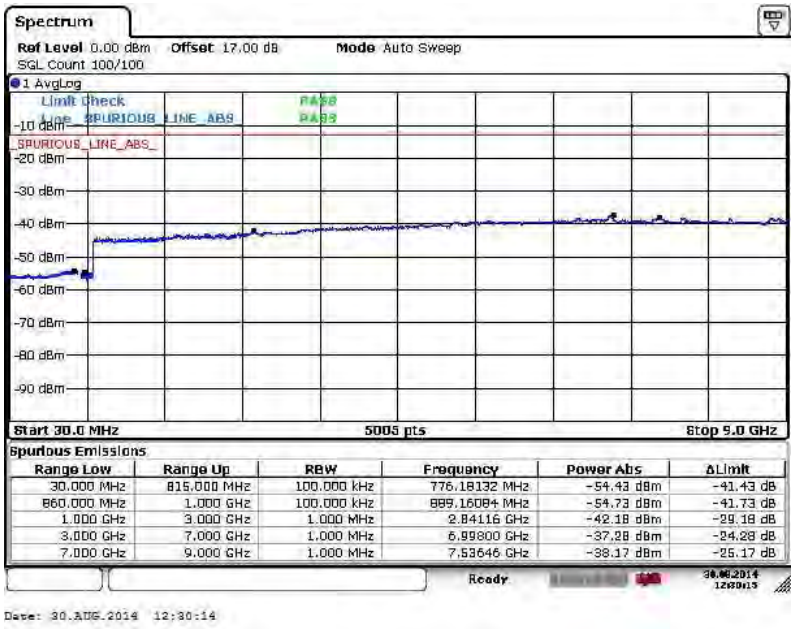


Band :	LTE Band 5	Channel :	CH20425 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

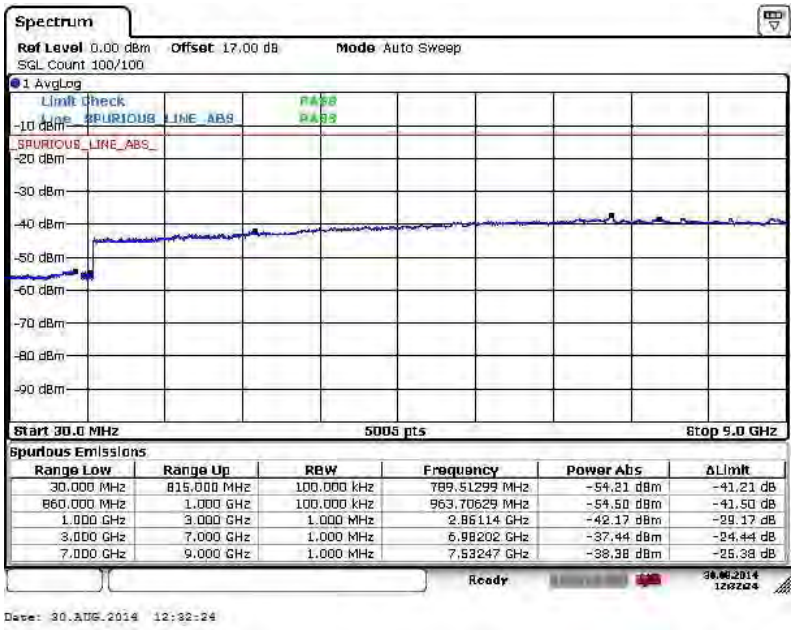


16QAM (RB Size 1, RB Offset 0)

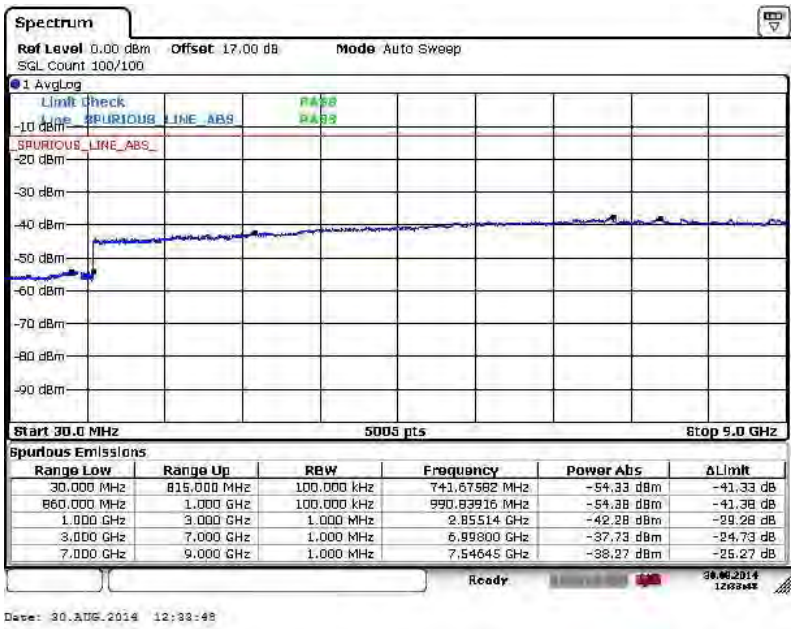


Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

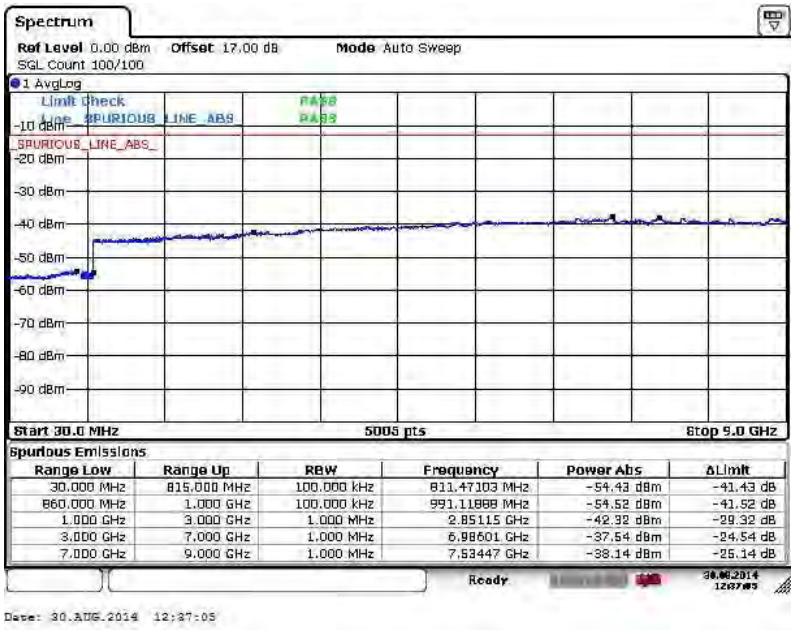


16QAM (RB Size 1, RB Offset 0)

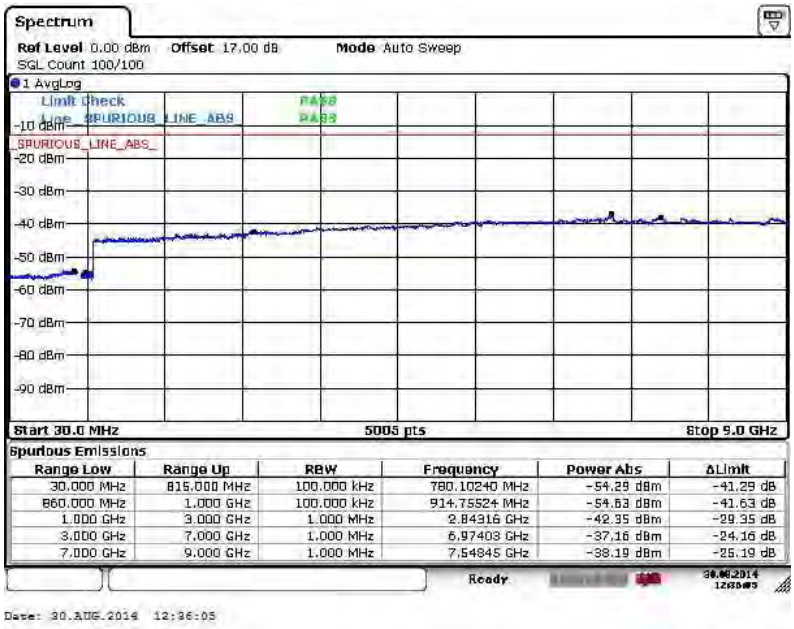


Band :	LTE Band 5	Channel :	CH20625 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

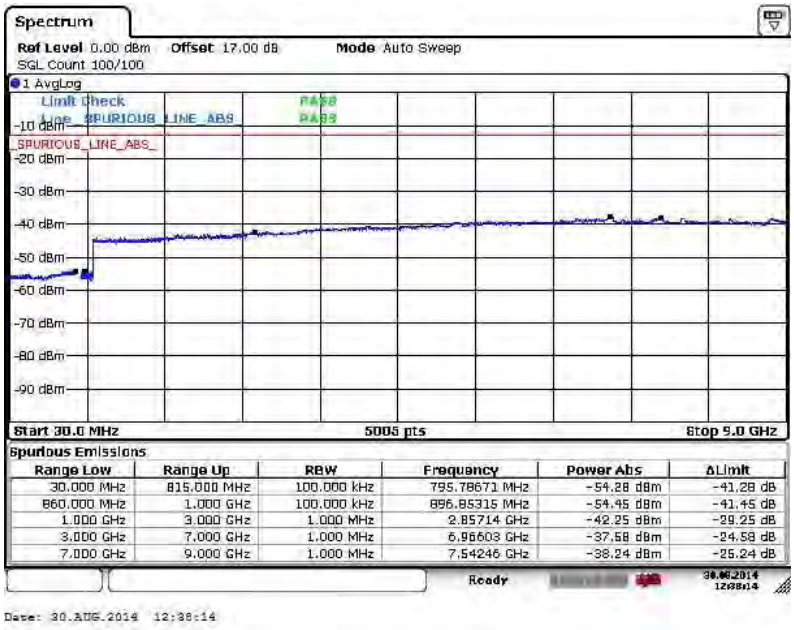


16QAM (RB Size 1, RB Offset 0)

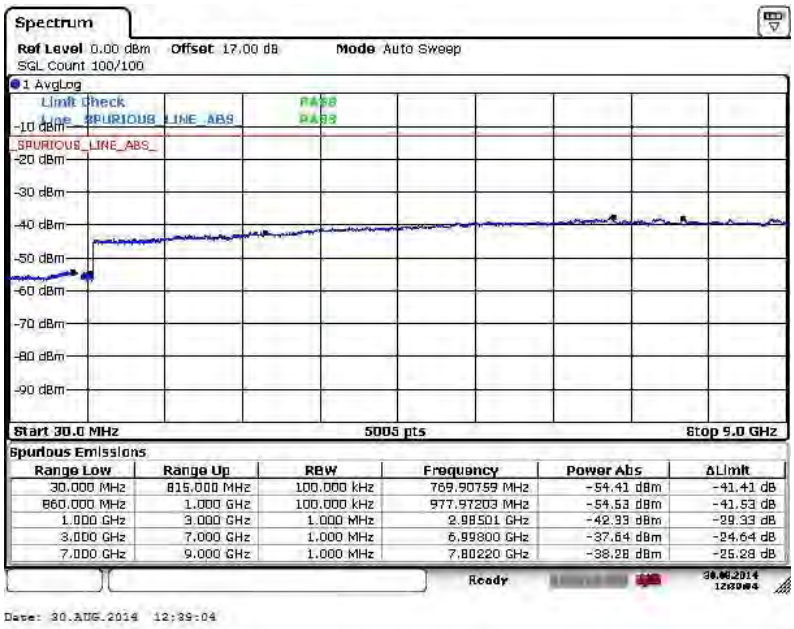


Band :	LTE Band 5	Channel :	CH20450 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

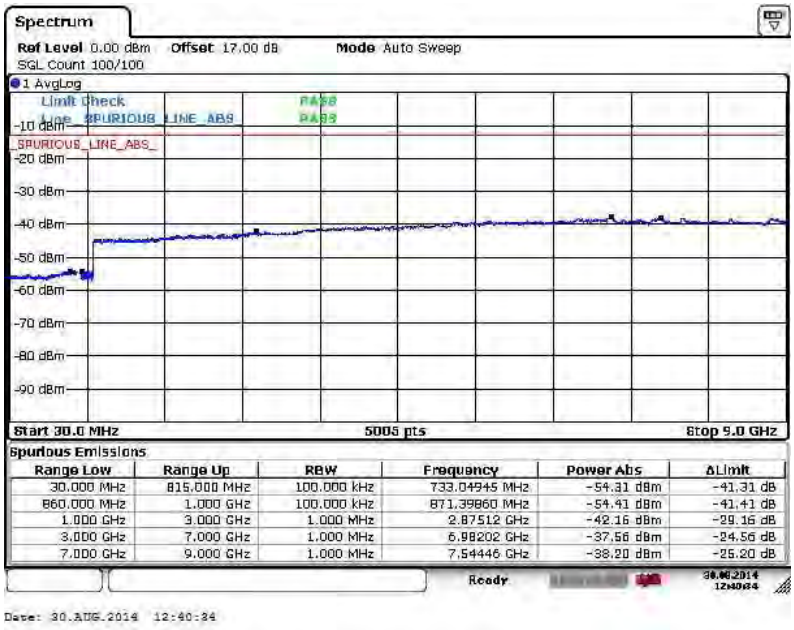


16QAM (RB Size 1, RB Offset 0)

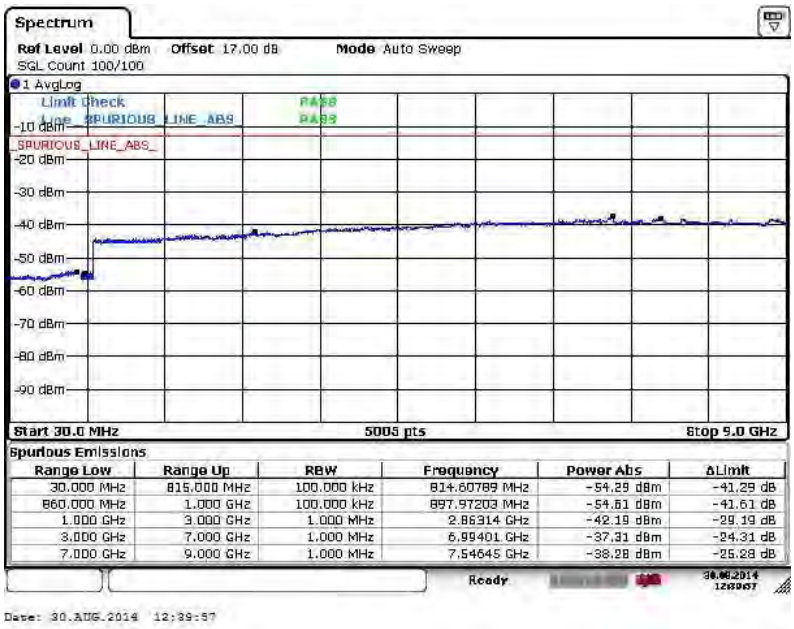


Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

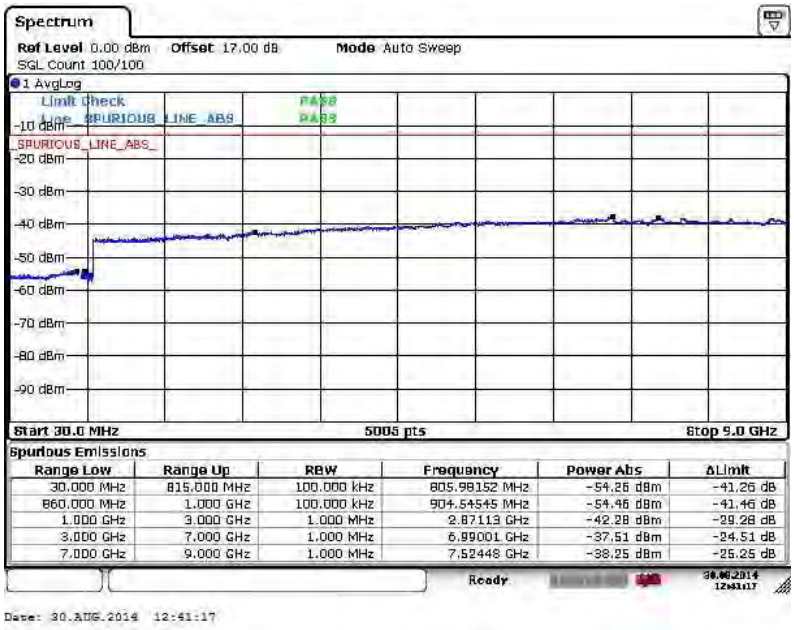


16QAM (RB Size 1, RB Offset 0)

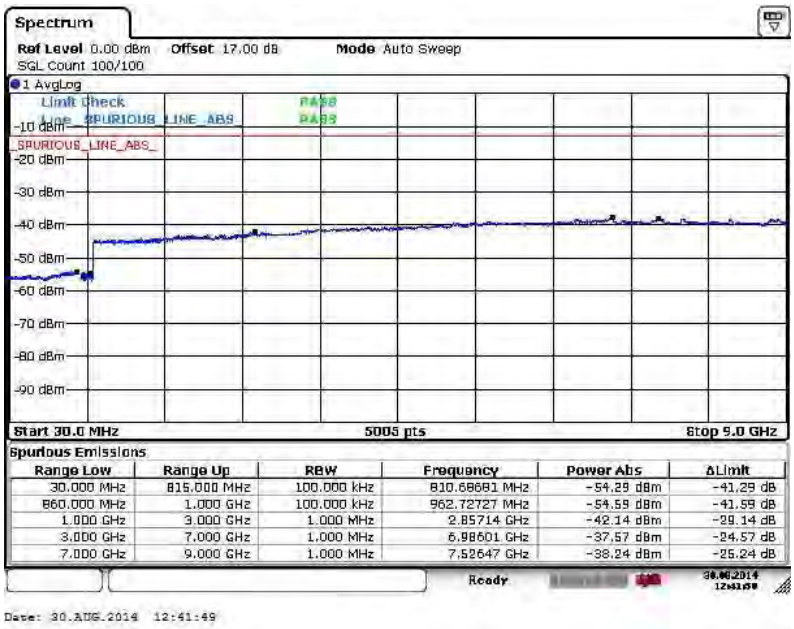


Band :	LTE Band 5	Channel :	CH20600 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

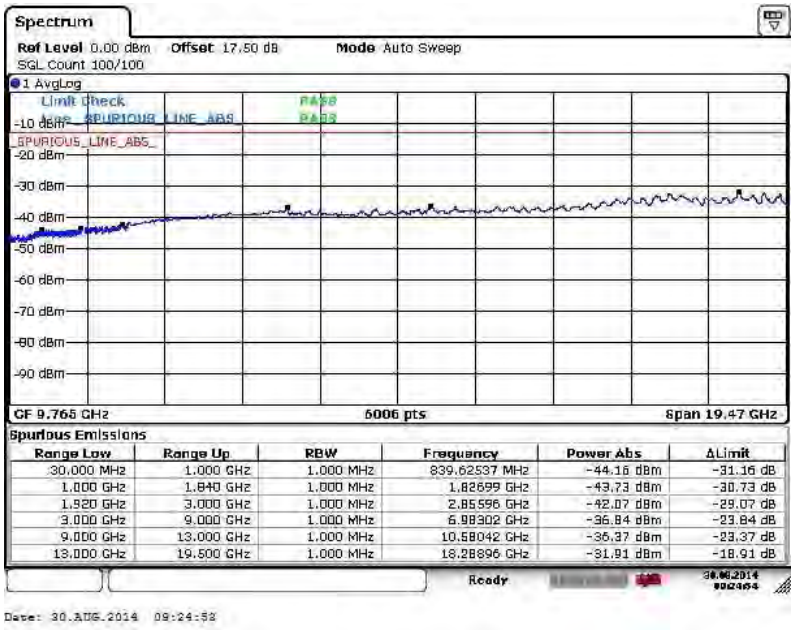


16QAM (RB Size 1, RB Offset 0)

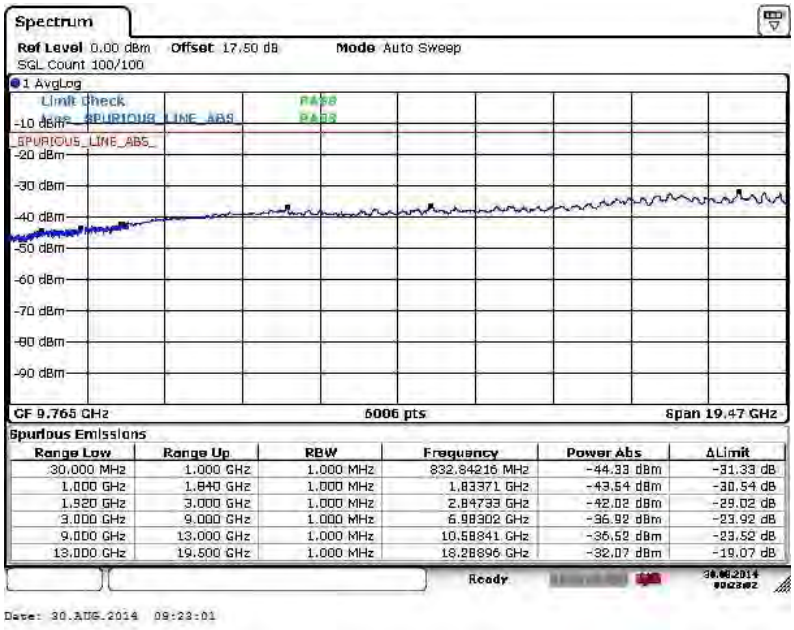


Band :	LTE Band 2	Channel :	CH18607 (Low)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

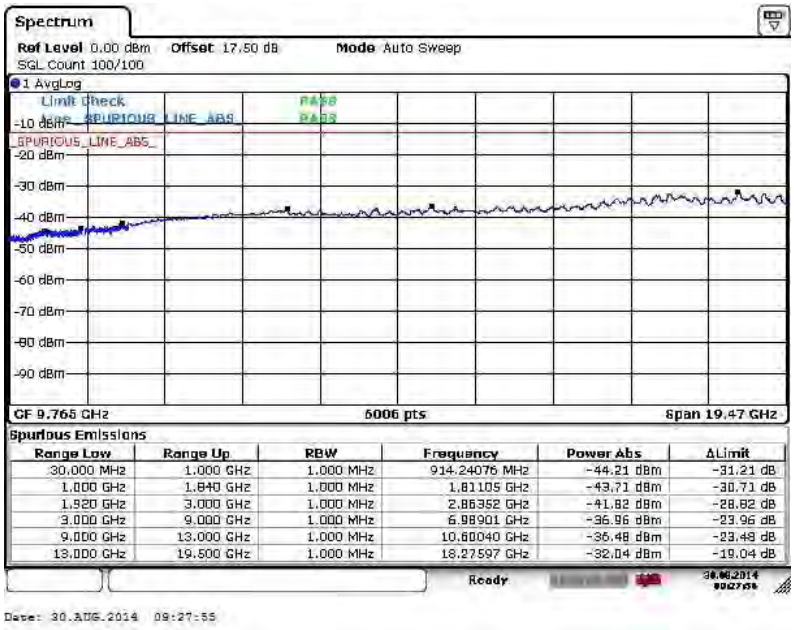


16QAM (RB Size 1, RB Offset 0)

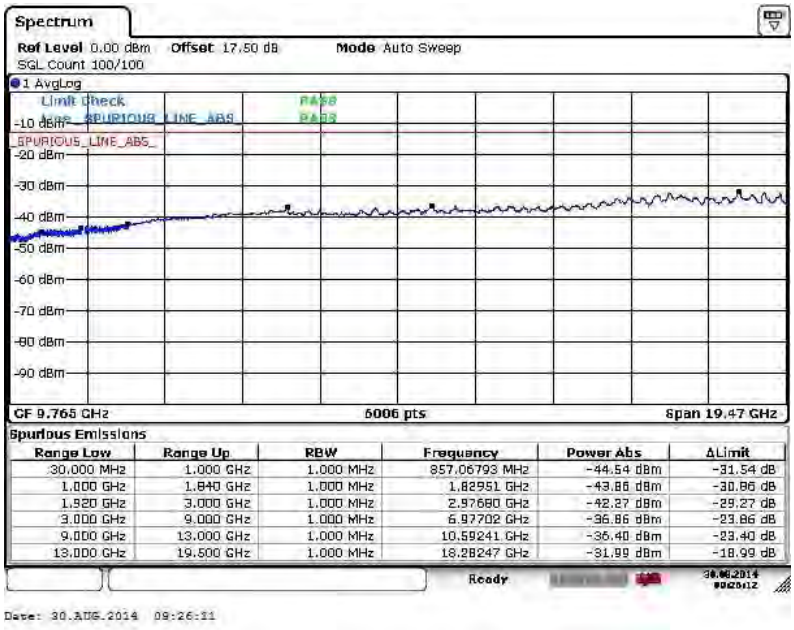


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

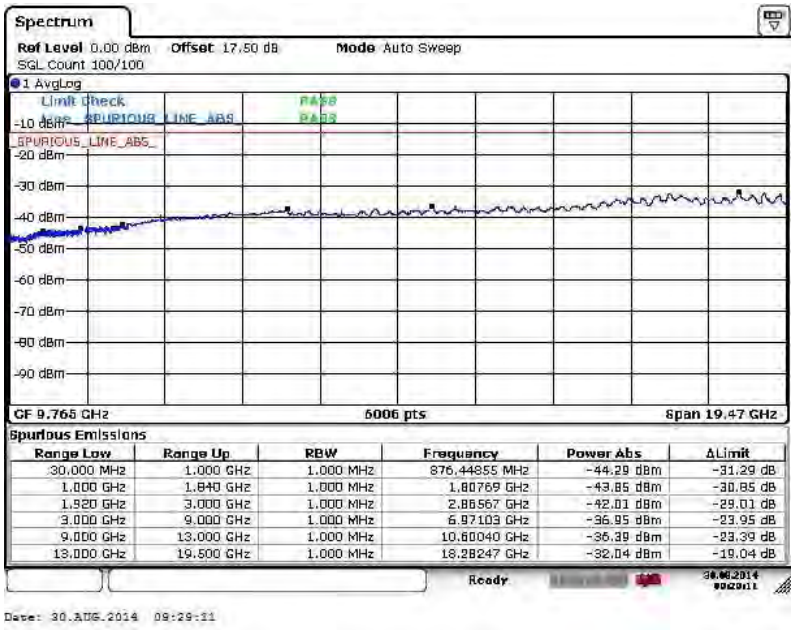


16QAM (RB Size 1, RB Offset 0)

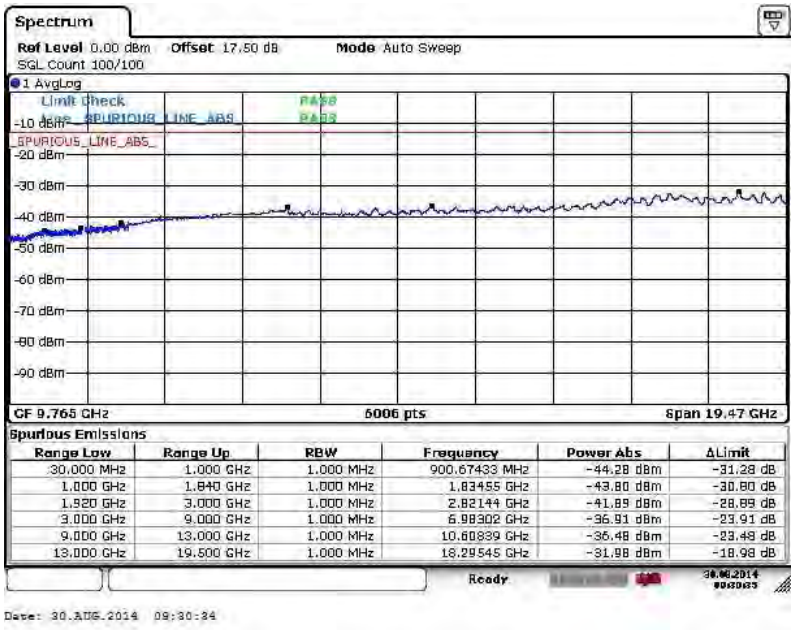


Band :	LTE Band 2	Channel :	CH19193 (High)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

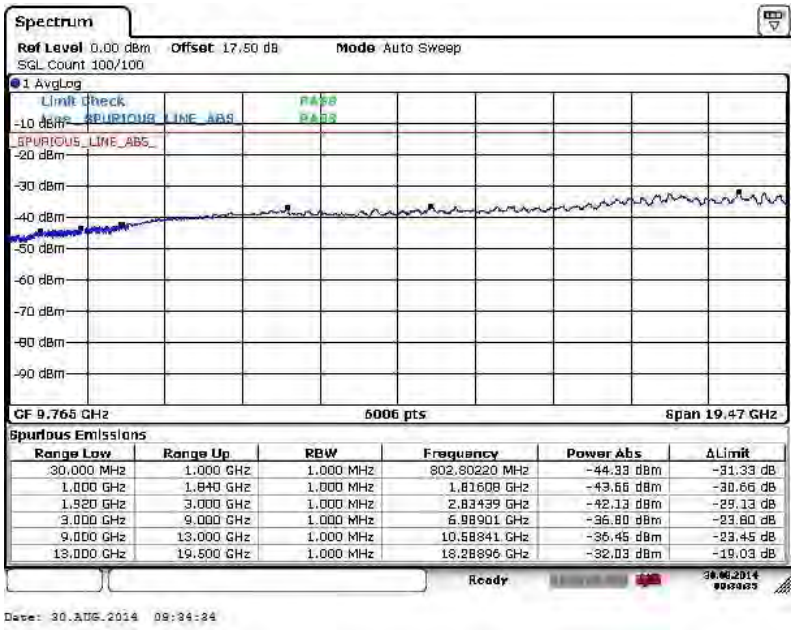


16QAM (RB Size 1, RB Offset 0)

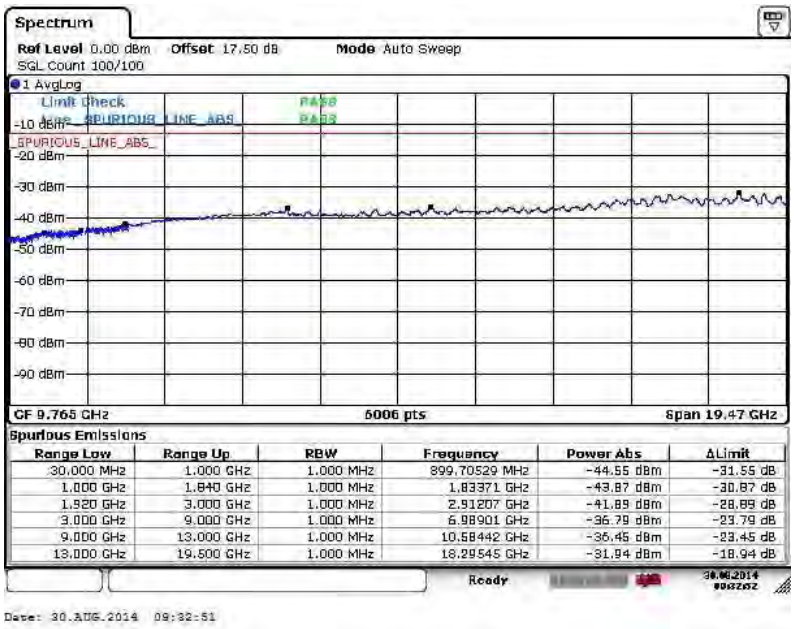


Band :	LTE Band 2	Channel :	CH18615 (Low)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

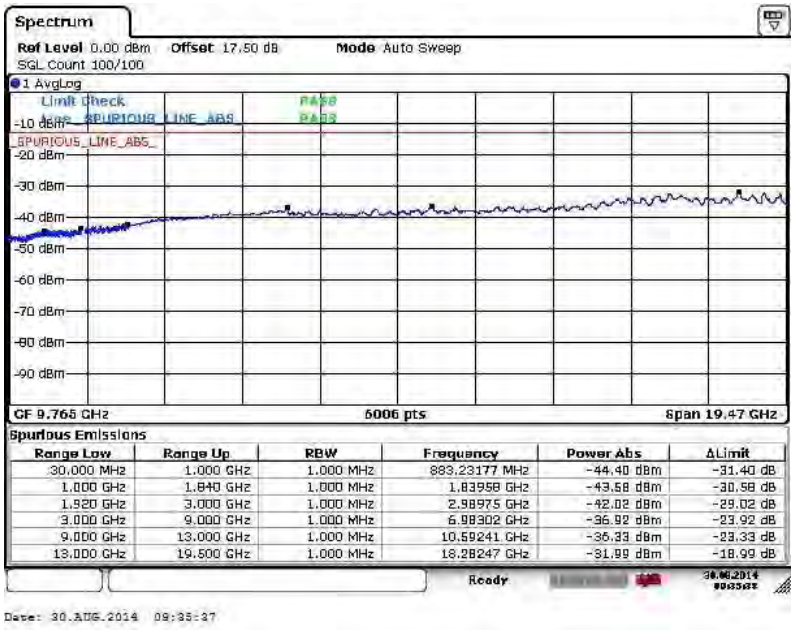


16QAM (RB Size 1, RB Offset 0)

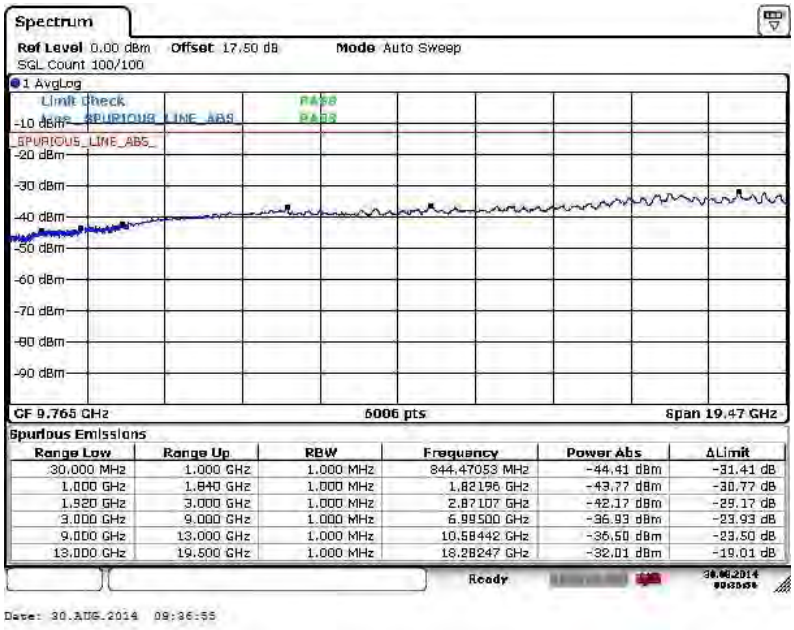


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

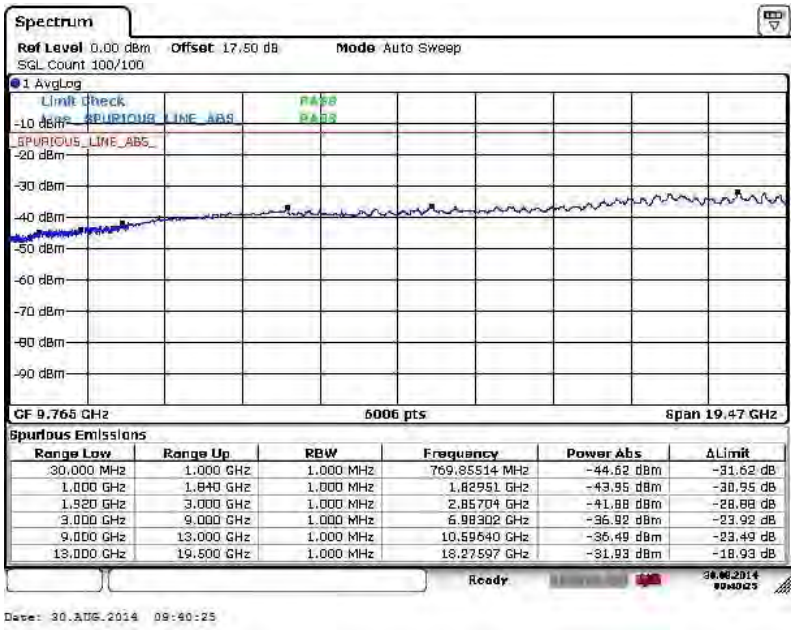


16QAM (RB Size 1, RB Offset 0)

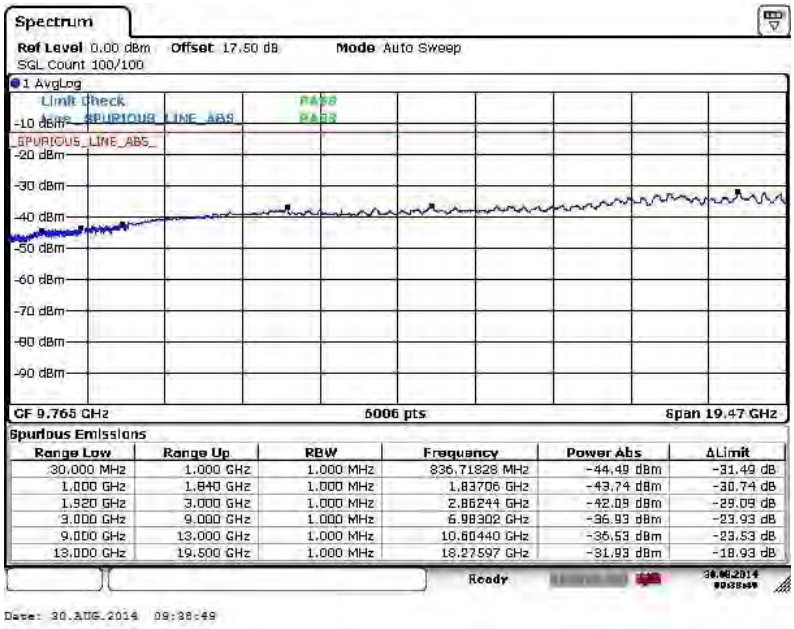


Band :	LTE Band 2	Channel :	CH19185 (High)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

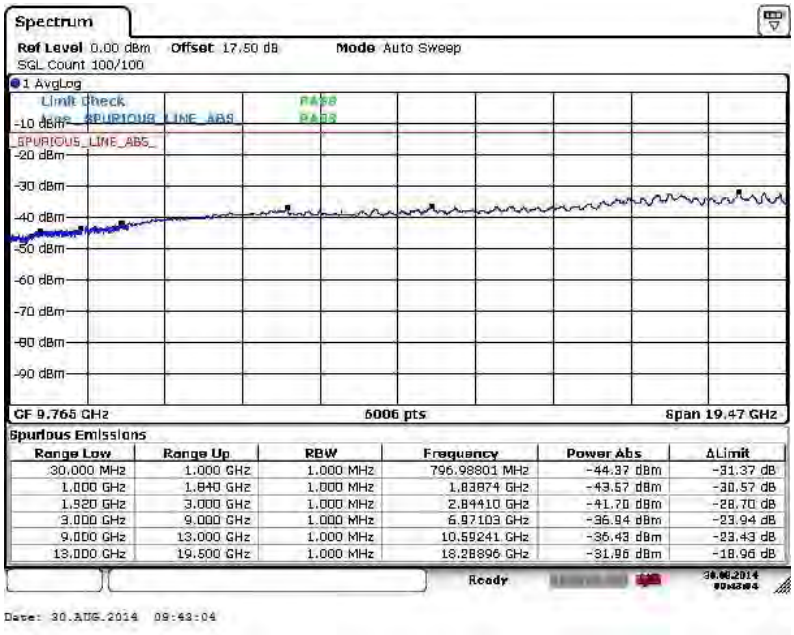


16QAM (RB Size 1, RB Offset 0)



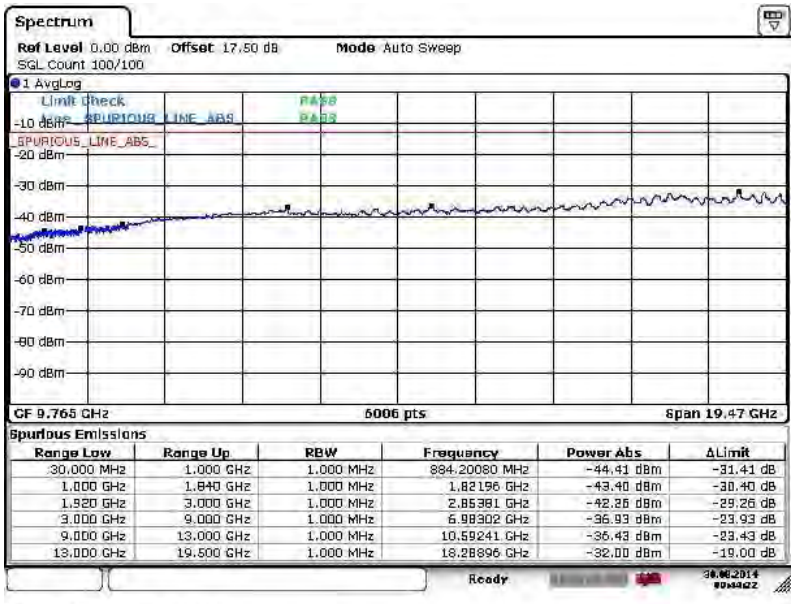
Band :	LTE Band 2	Channel :	CH18625 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 30.AUG.2014 09:43:04

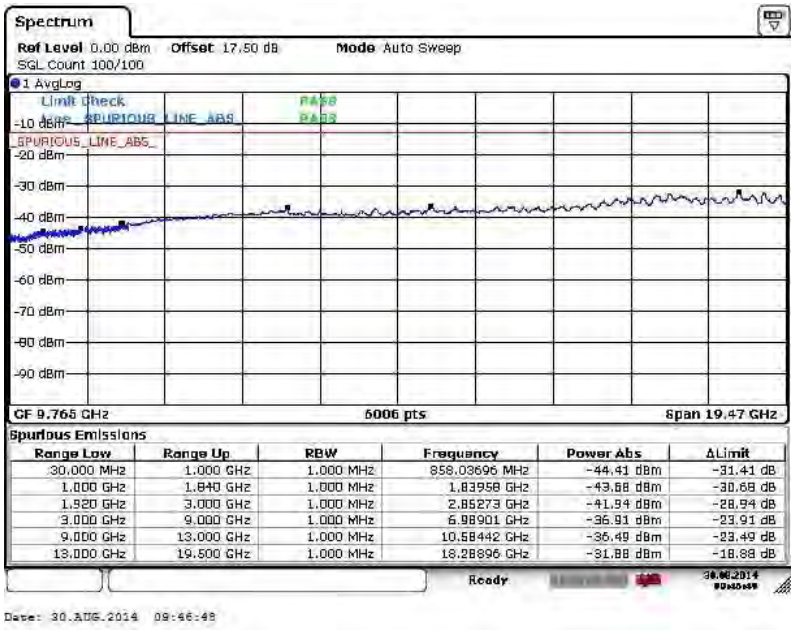
16QAM (RB Size 1, RB Offset 0)



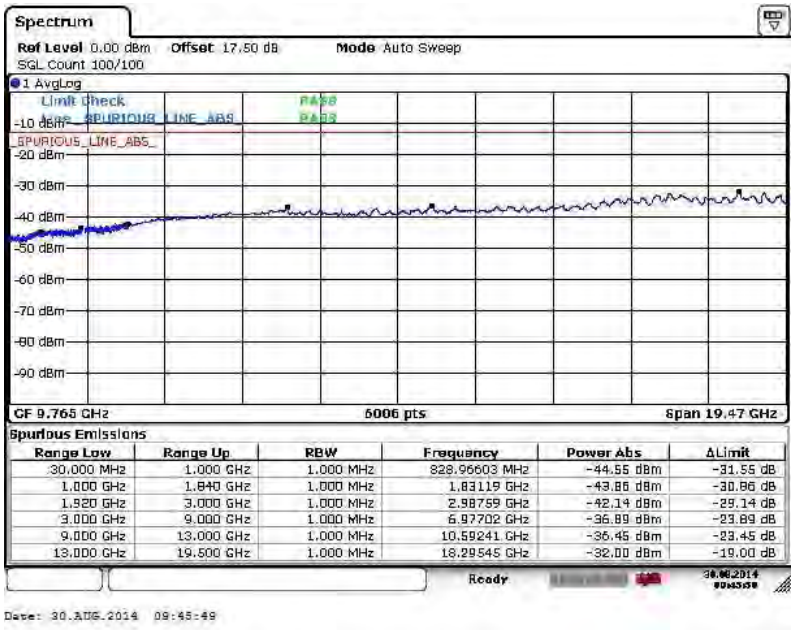
Date: 30.AUG.2014 09:44:22

Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

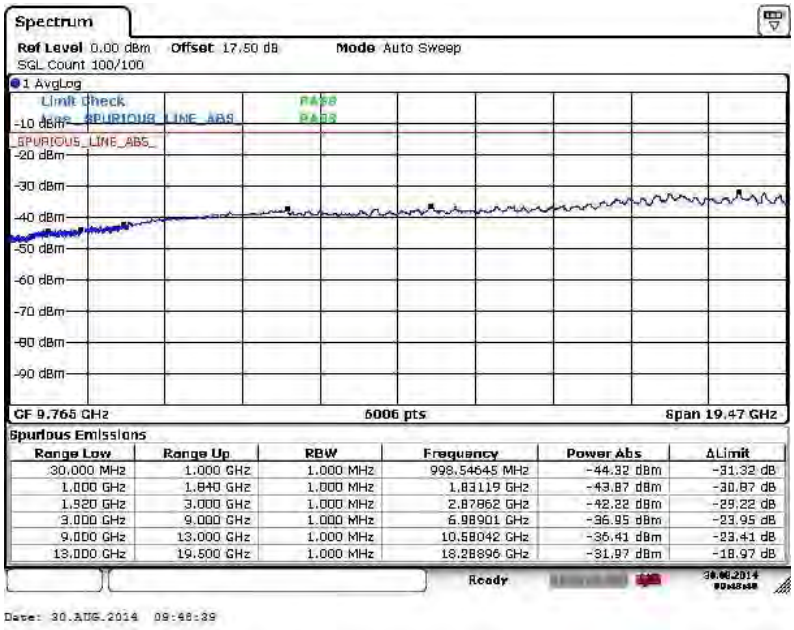


16QAM (RB Size 1, RB Offset 0)

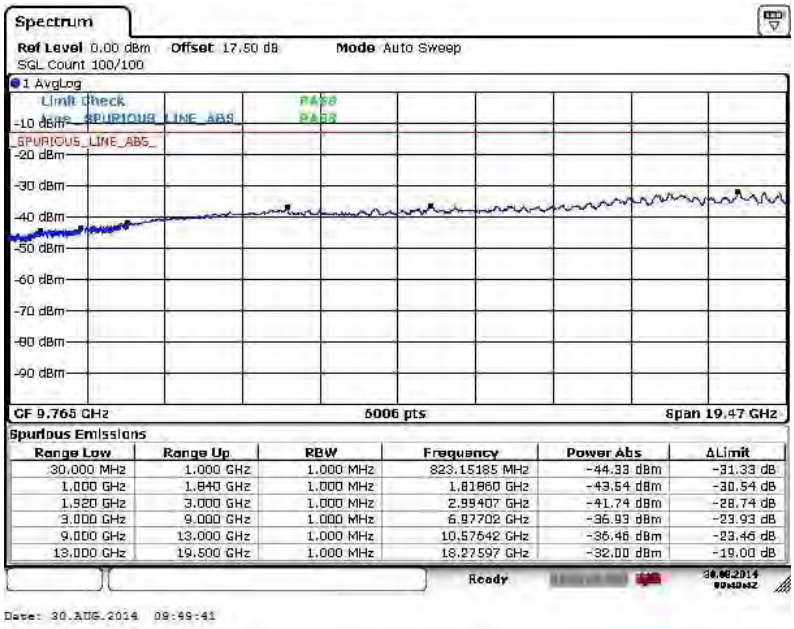


Band :	LTE Band 2	Channel :	CH19175 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

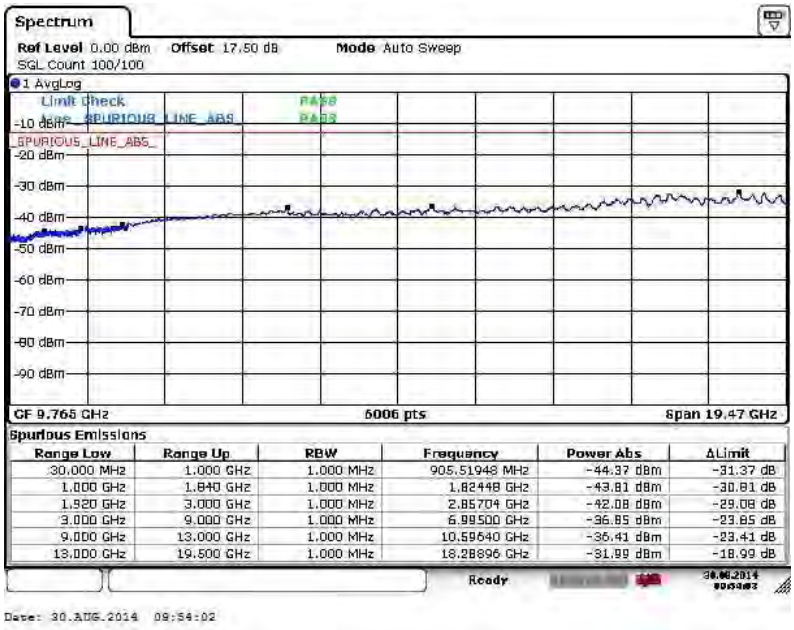


16QAM (RB Size 1, RB Offset 0)

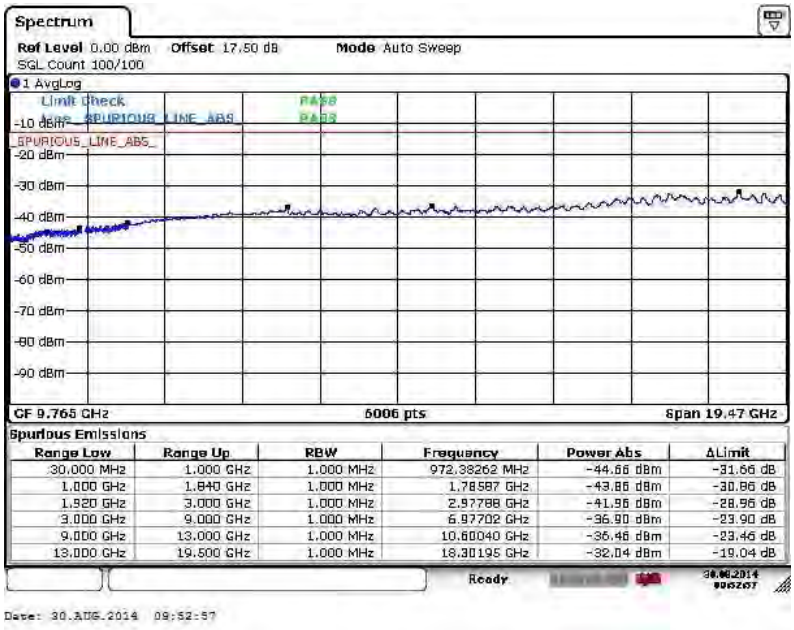


Band :	LTE Band 2	Channel :	CH18650 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

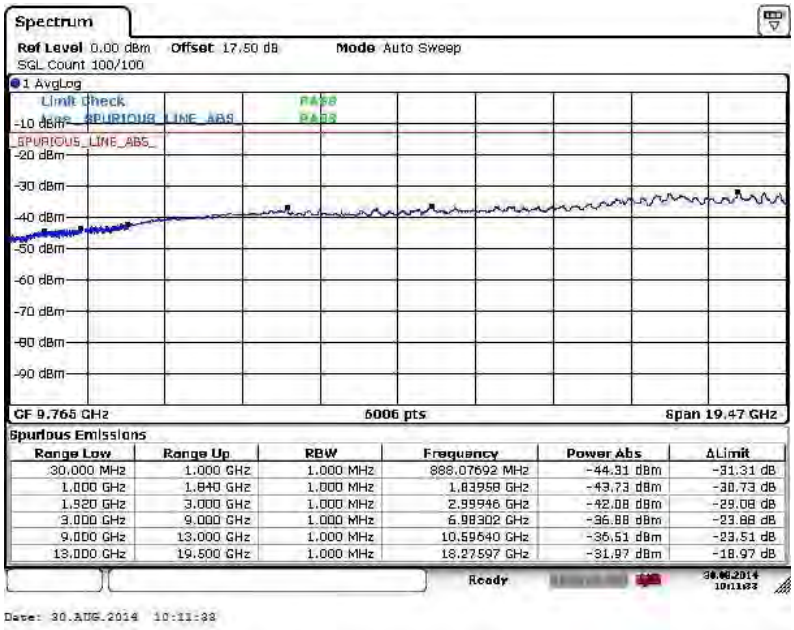


16QAM (RB Size 1, RB Offset 0)

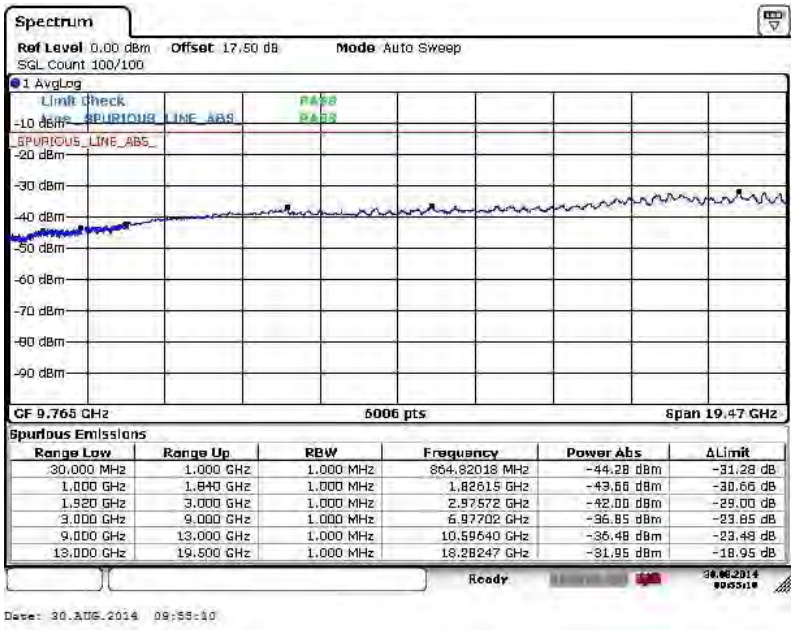


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

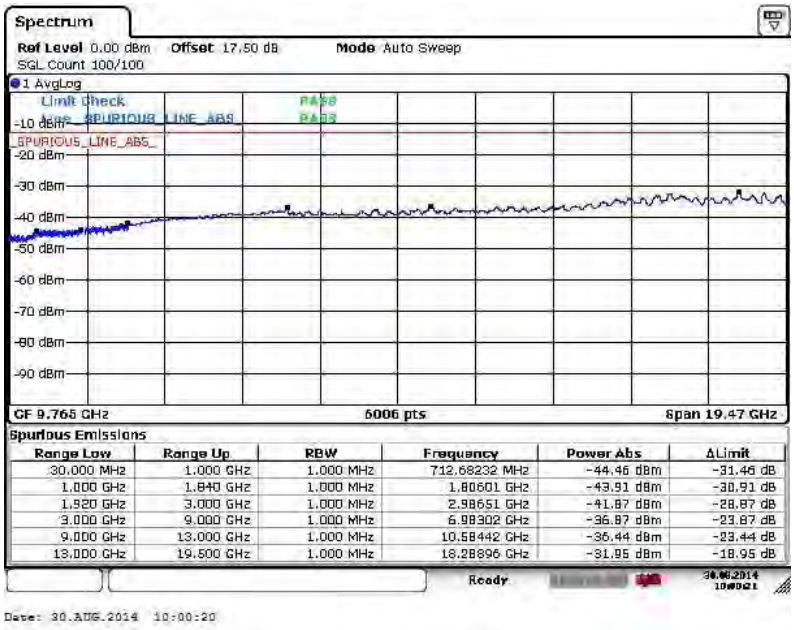


16QAM (RB Size 1, RB Offset 0)

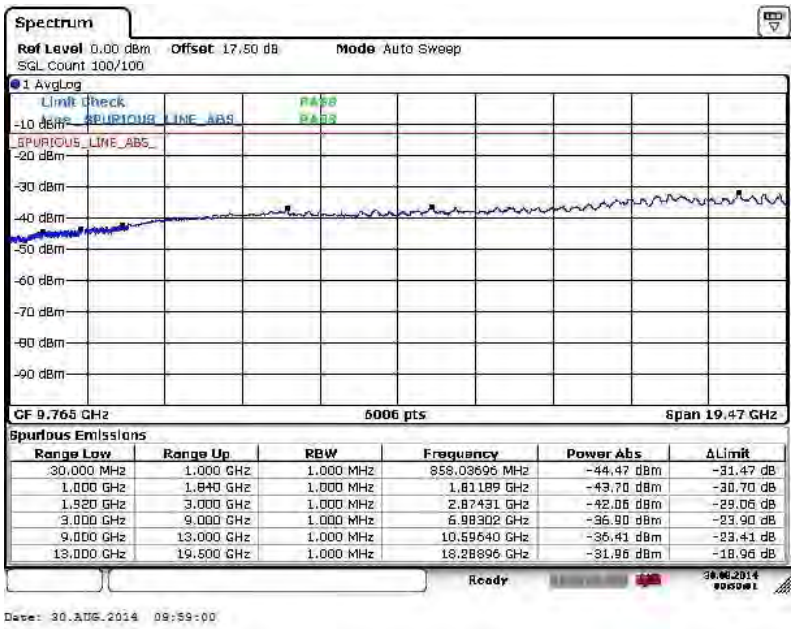


Band :	LTE Band 2	Channel :	CH19150 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

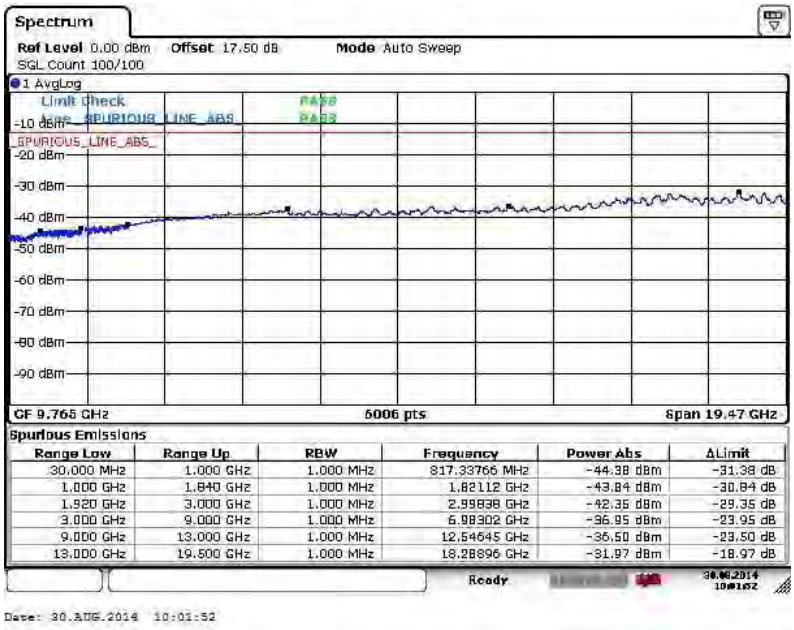


16QAM (RB Size 1, RB Offset 0)

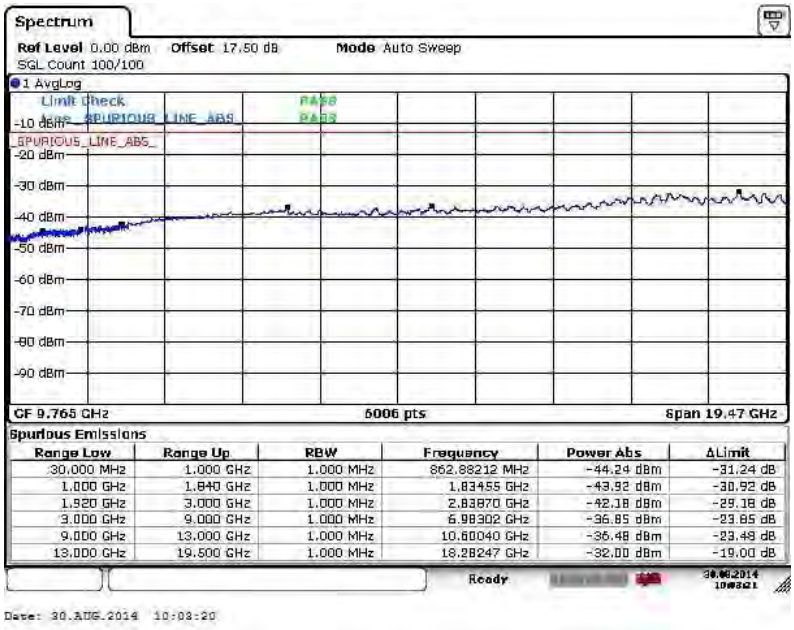


Band :	LTE Band 2	Channel :	CH18675 (Low)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

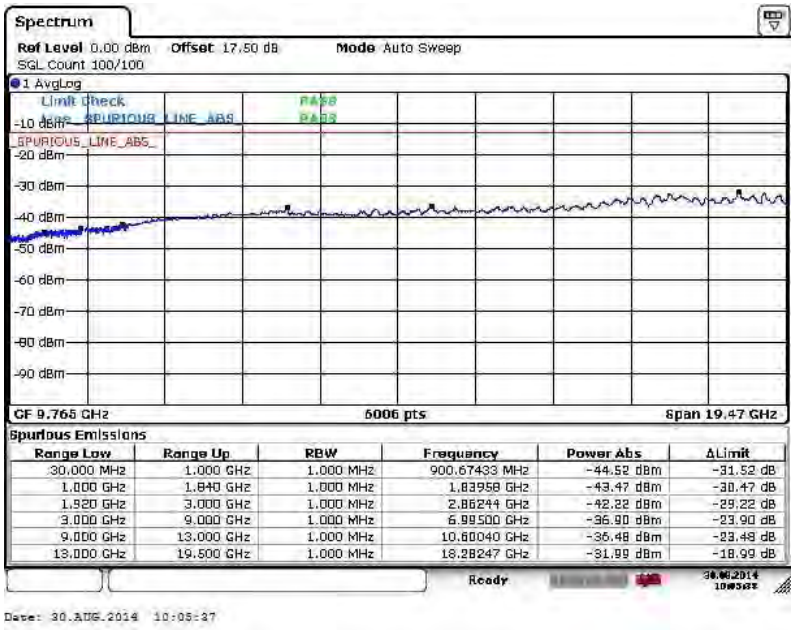


16QAM (RB Size 1, RB Offset 0)

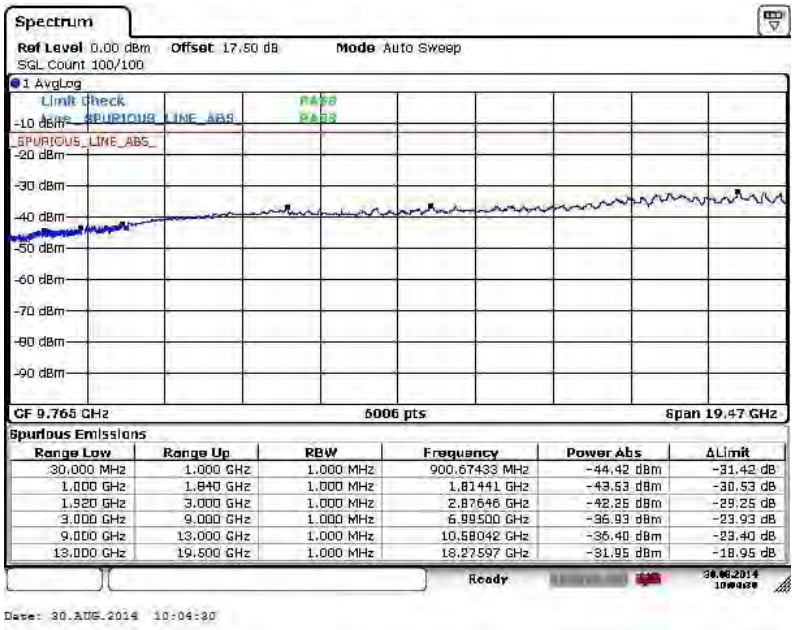


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

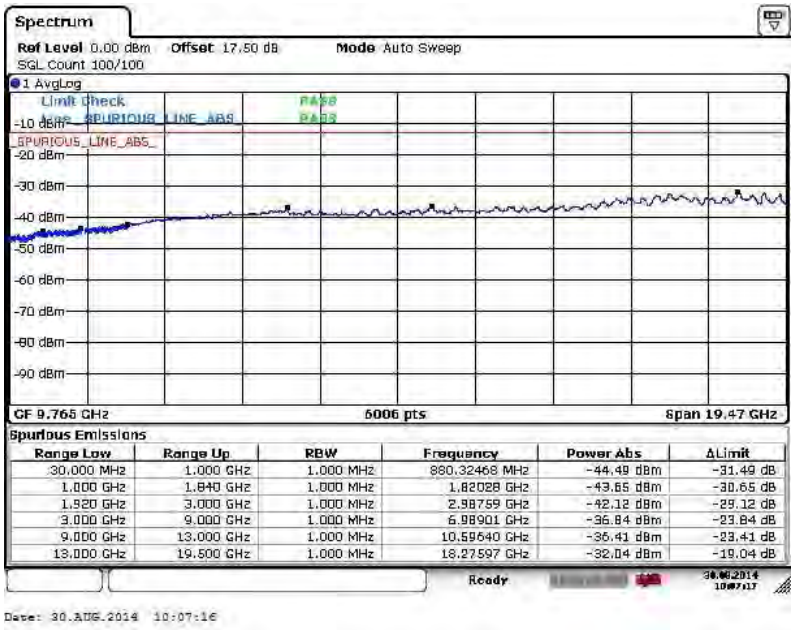


16QAM (RB Size 1, RB Offset 0)

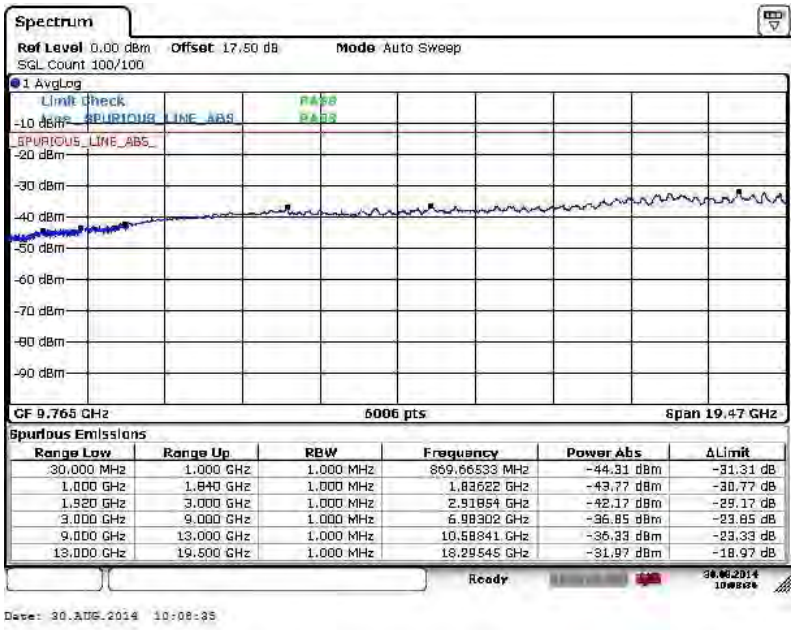


Band :	LTE Band 2	Channel :	CH19125 (High)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

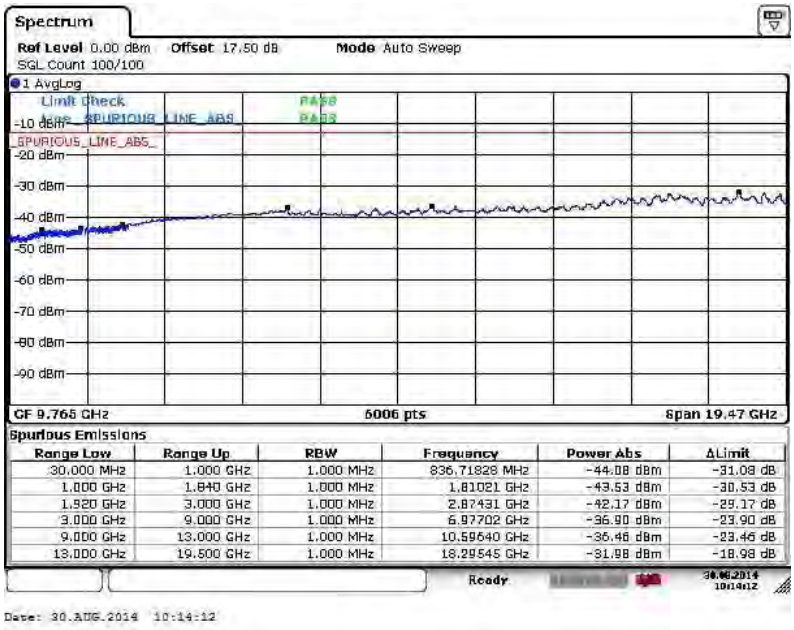


16QAM (RB Size 1, RB Offset 0)

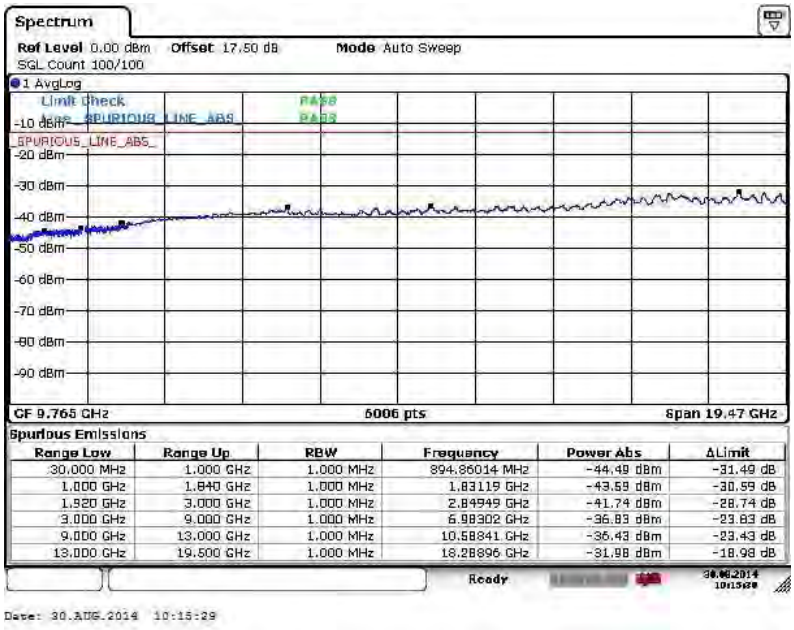


Band :	LTE Band 2	Channel :	CH18700 (Low)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

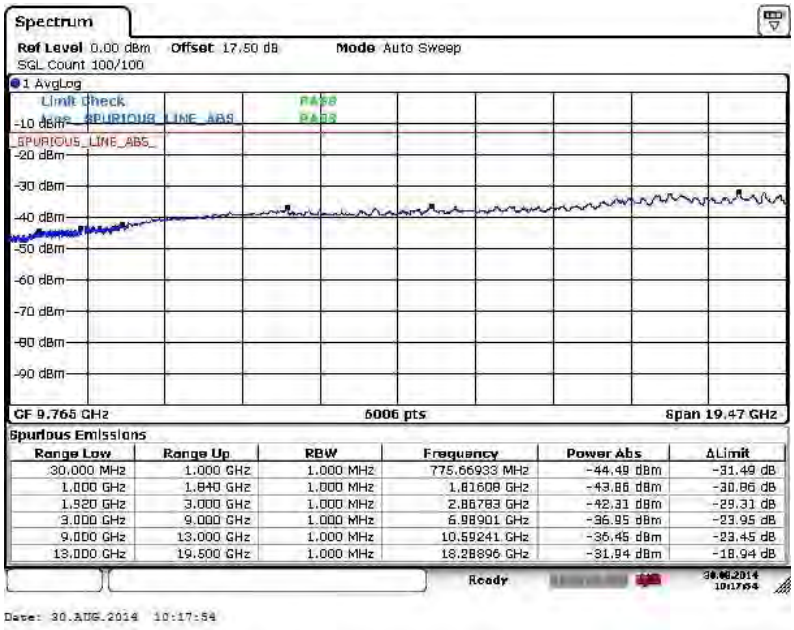


16QAM (RB Size 1, RB Offset 0)

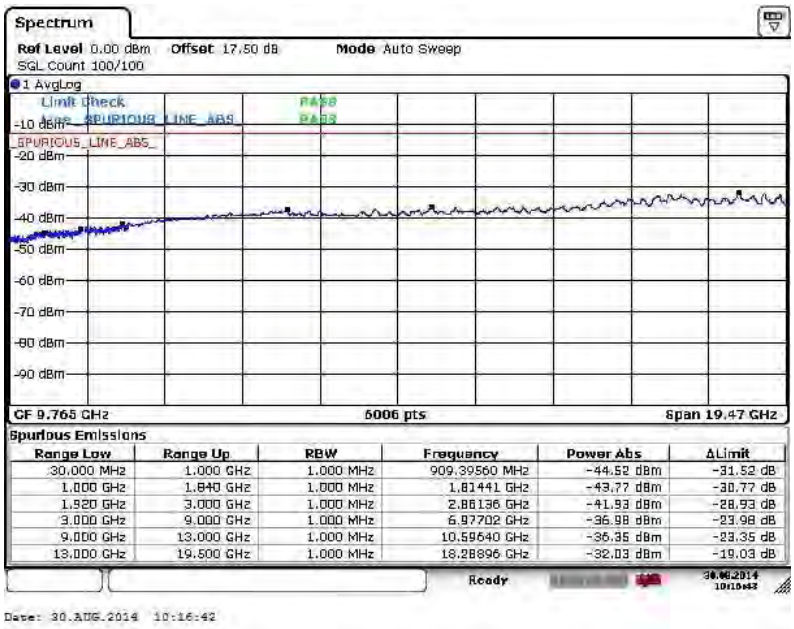


Band :	LTE Band 2	Channel :	CH18900 (Middle)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

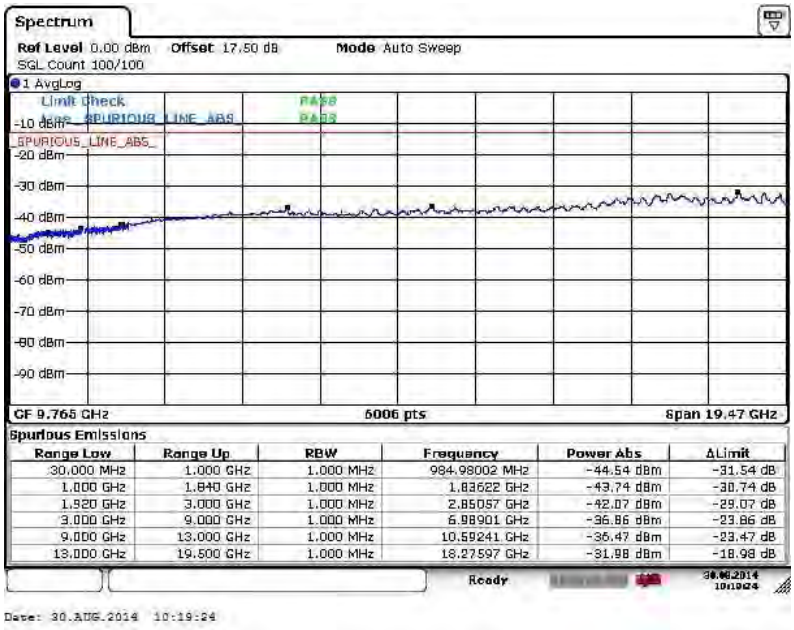


16QAM (RB Size 1, RB Offset 0)

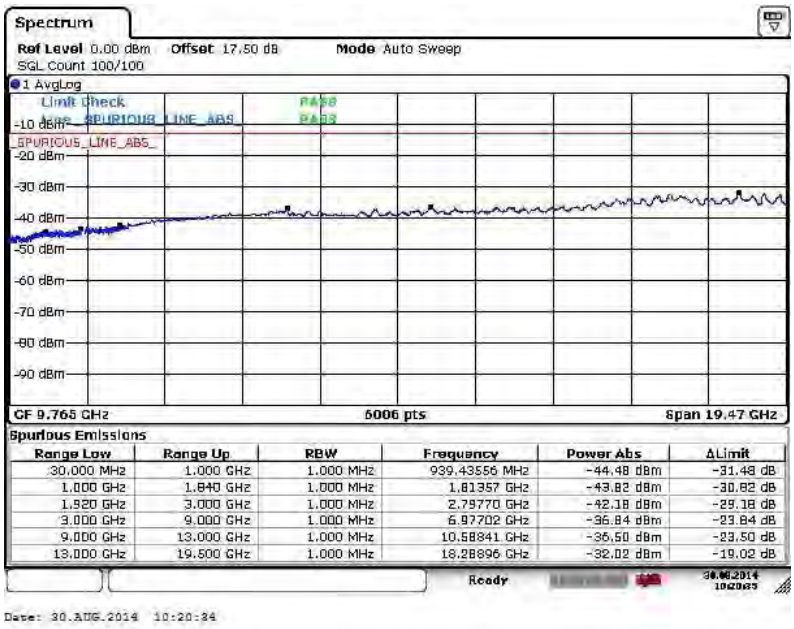


Band :	LTE Band 2	Channel :	CH19100 (High)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

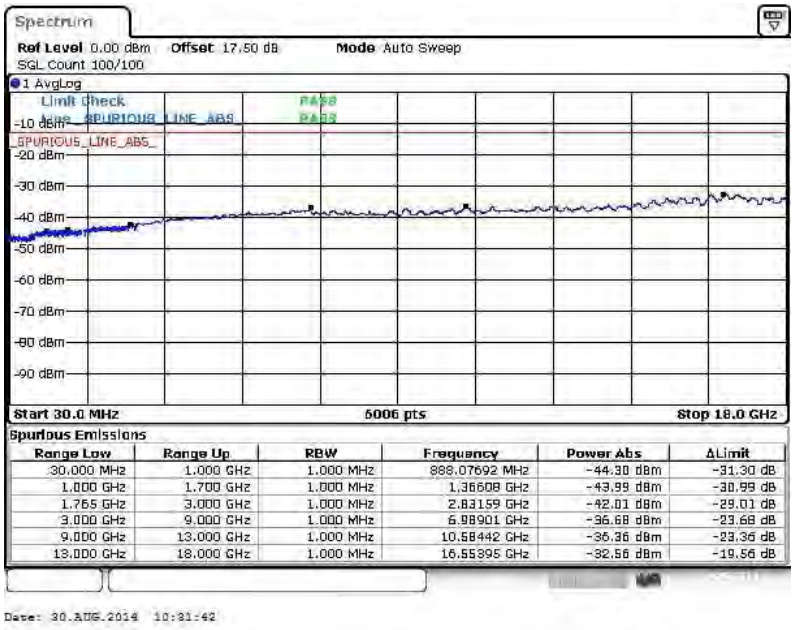


16QAM (RB Size 1, RB Offset 0)

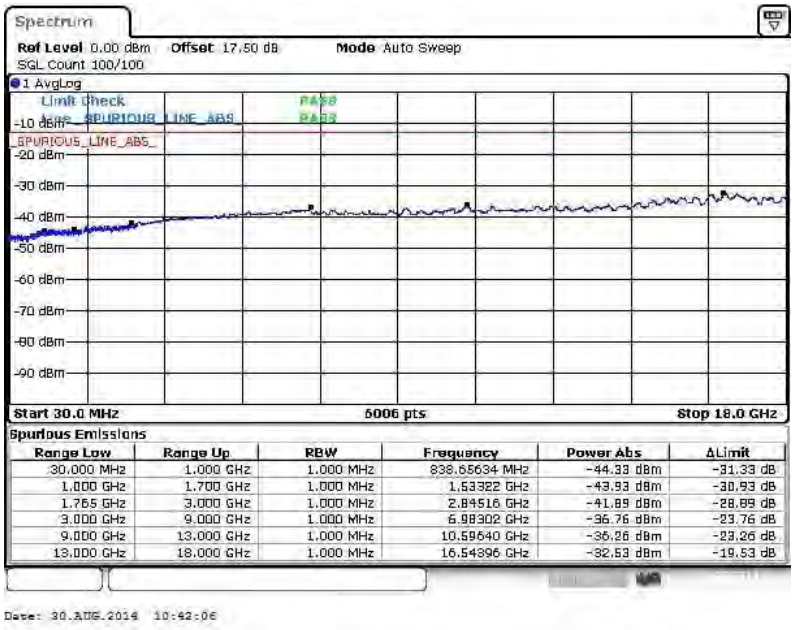


Band :	LTE Band 4	Channel :	CH19957 (Low)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

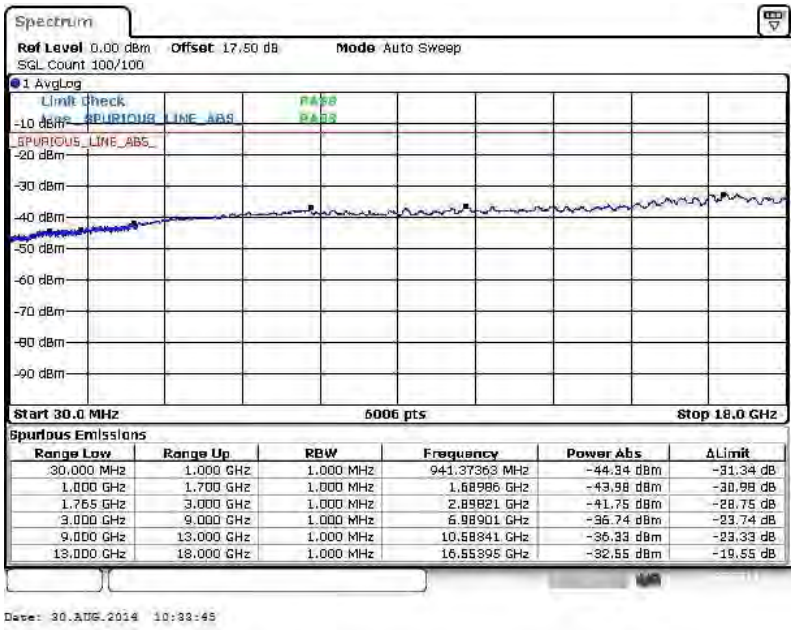


16QAM (RB Size 1, RB Offset 0)

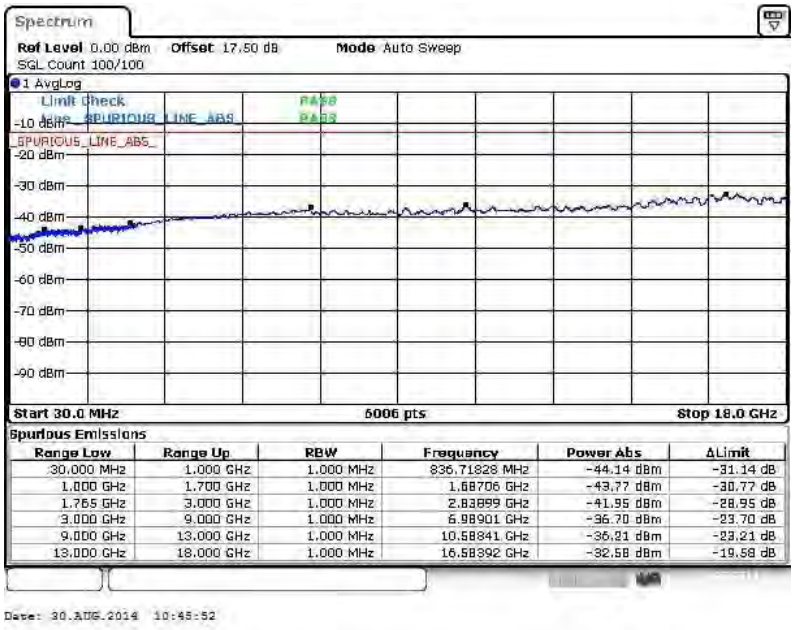


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

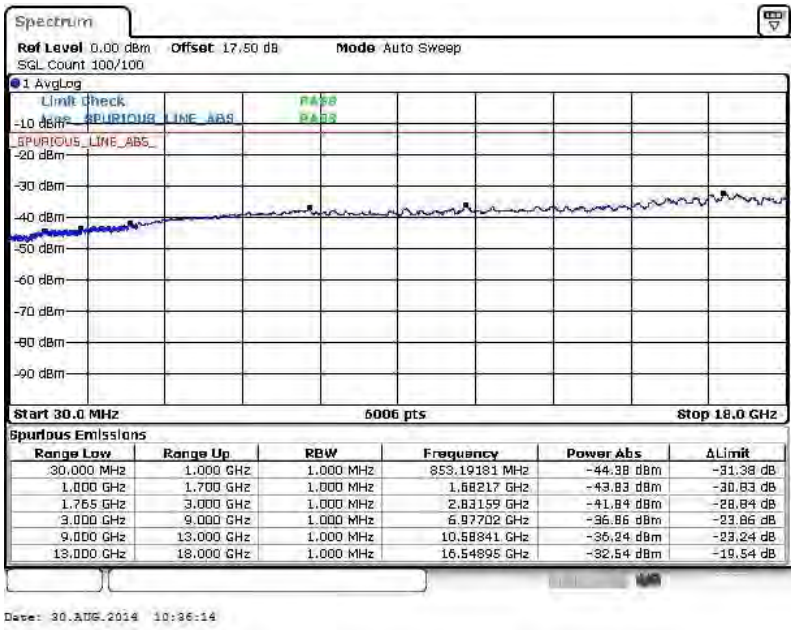


16QAM (RB Size 1, RB Offset 0)

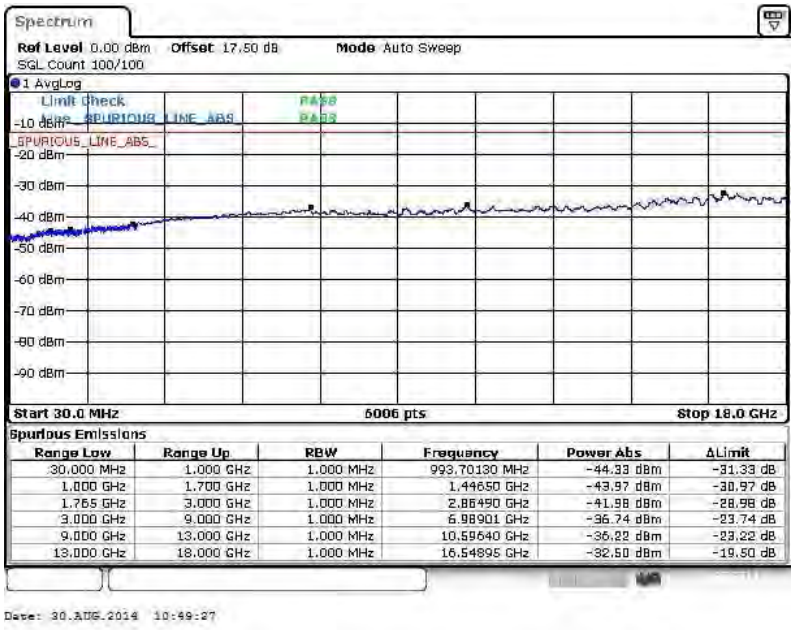


Band :	LTE Band 4	Channel :	CH20393 (High)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)

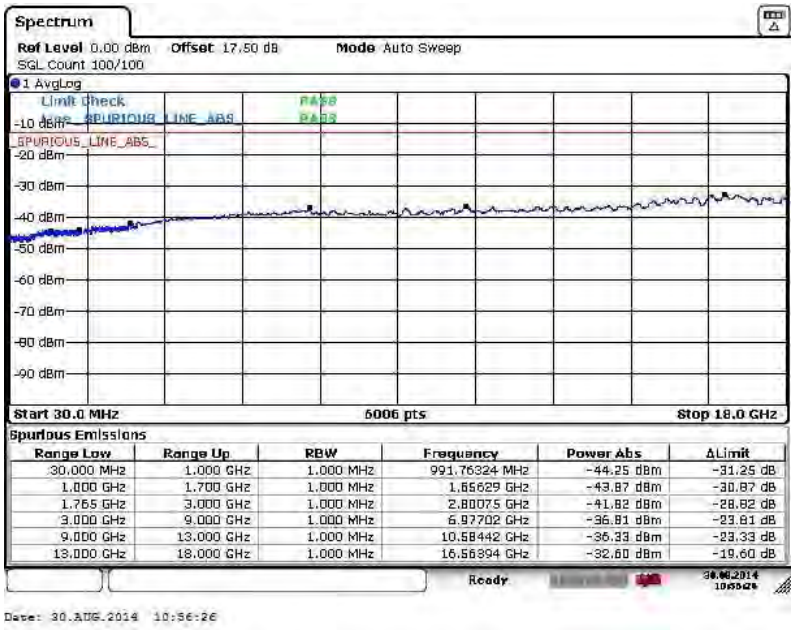


16QAM (RB Size 1, RB Offset 0)

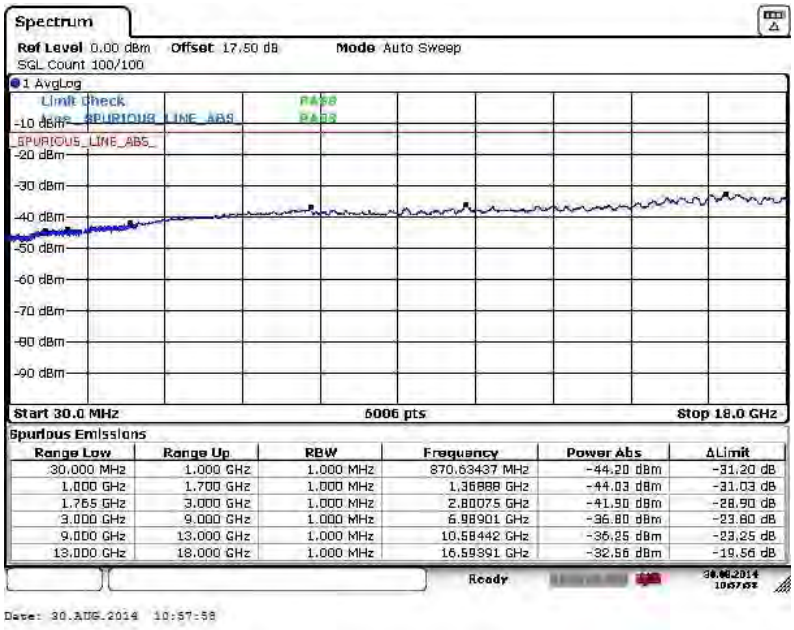


Band :	LTE Band 4	Channel :	CH19965 (Low)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

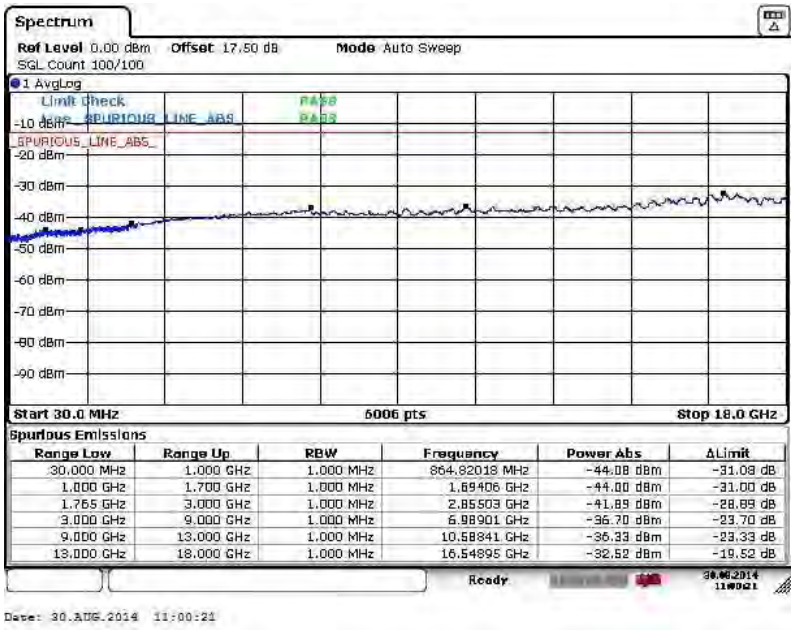


16QAM (RB Size 1, RB Offset 0)

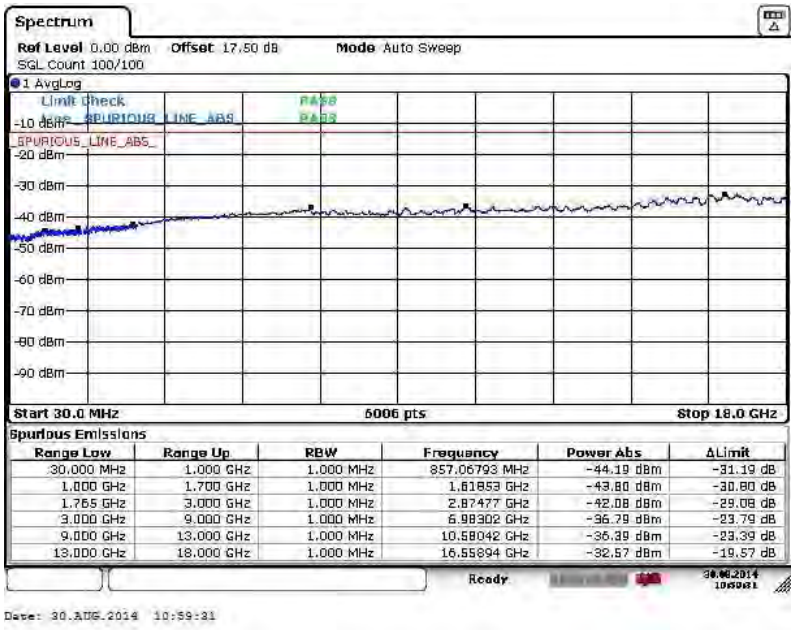


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

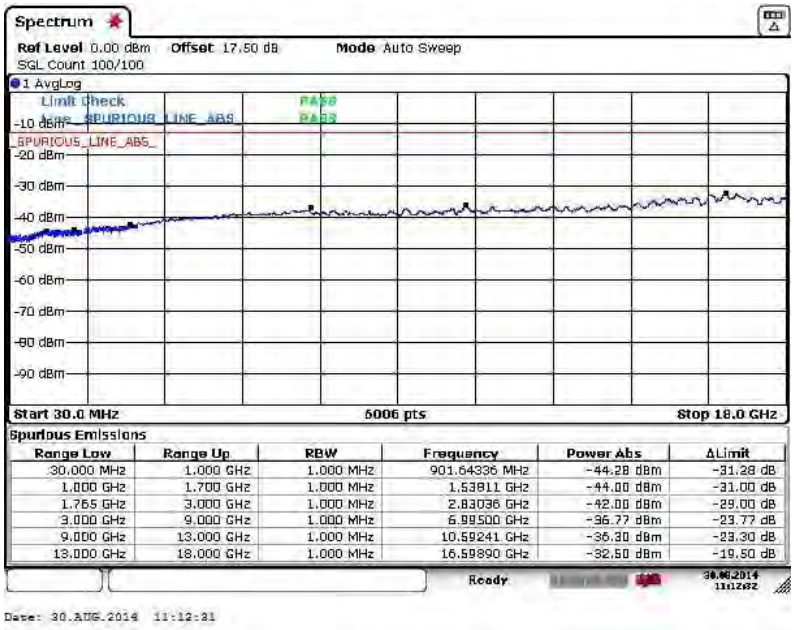


16QAM (RB Size 1, RB Offset 0)

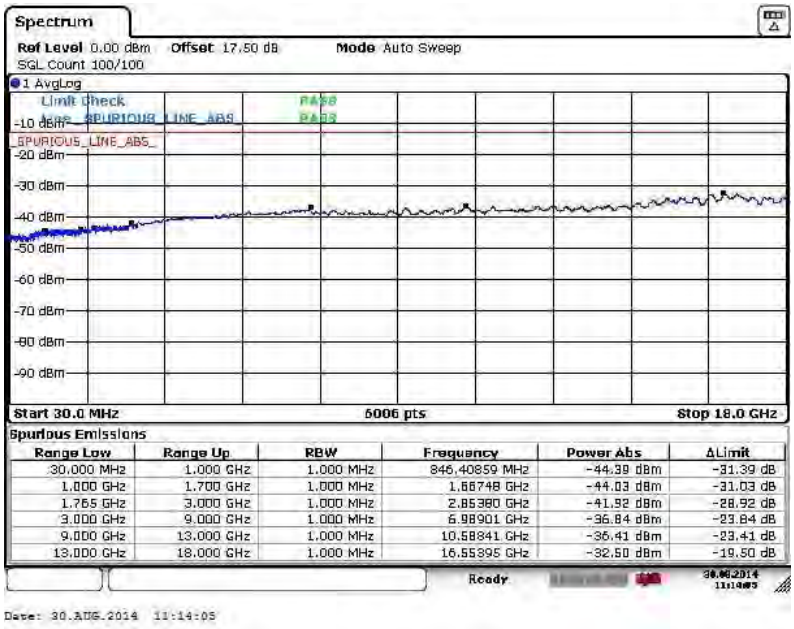


Band :	LTE Band 4	Channel :	CH20385 (High)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)

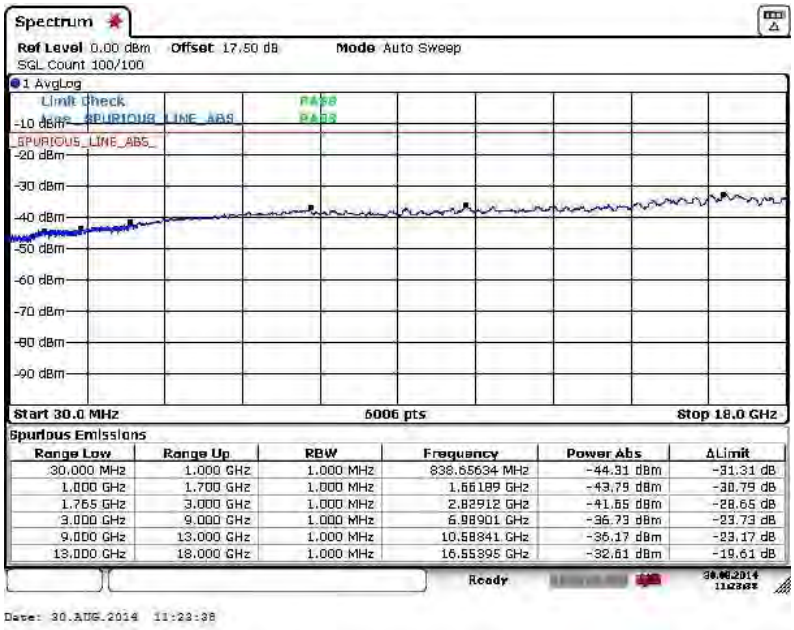


16QAM (RB Size 1, RB Offset 0)

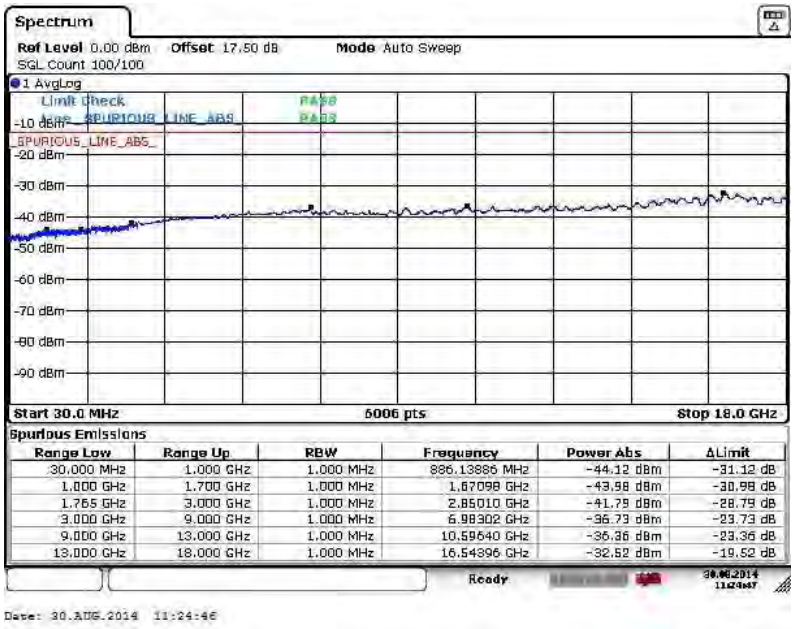


Band :	LTE Band 4	Channel :	CH19975 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

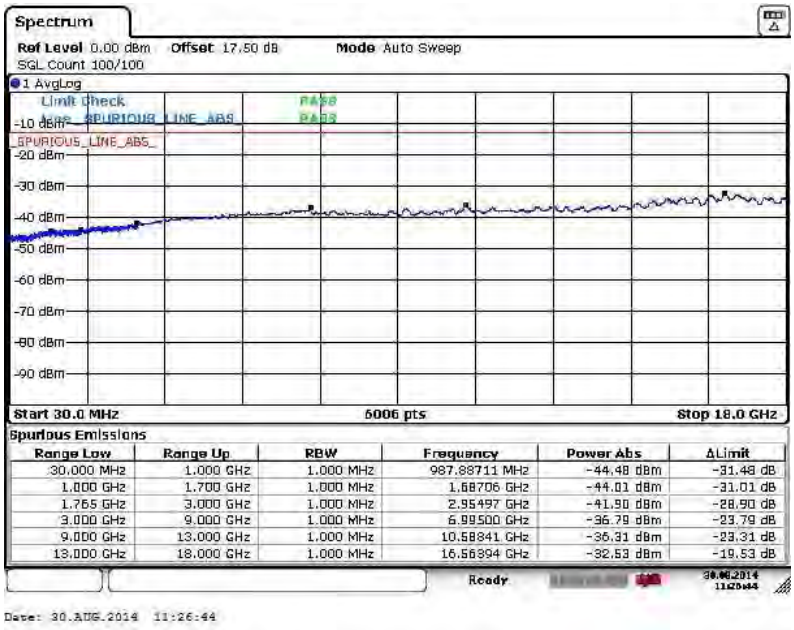


16QAM (RB Size 1, RB Offset 0)

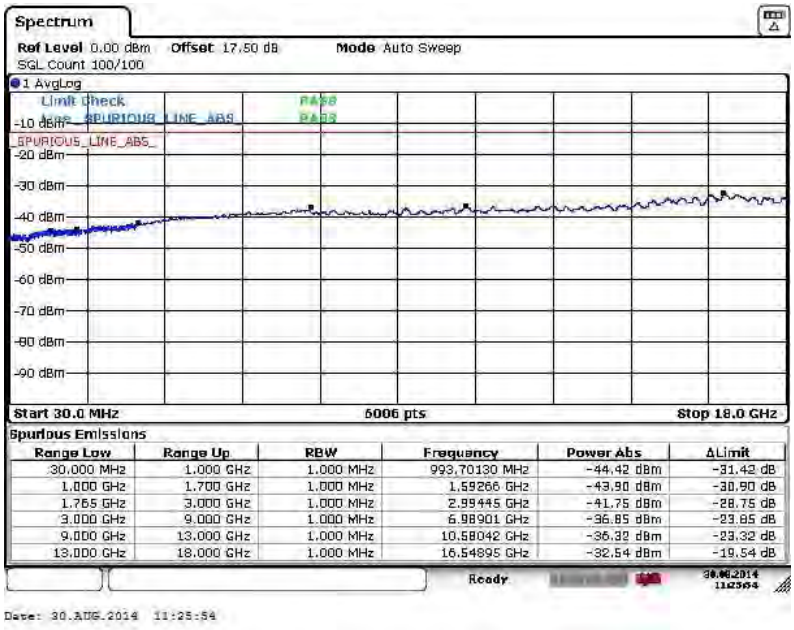


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

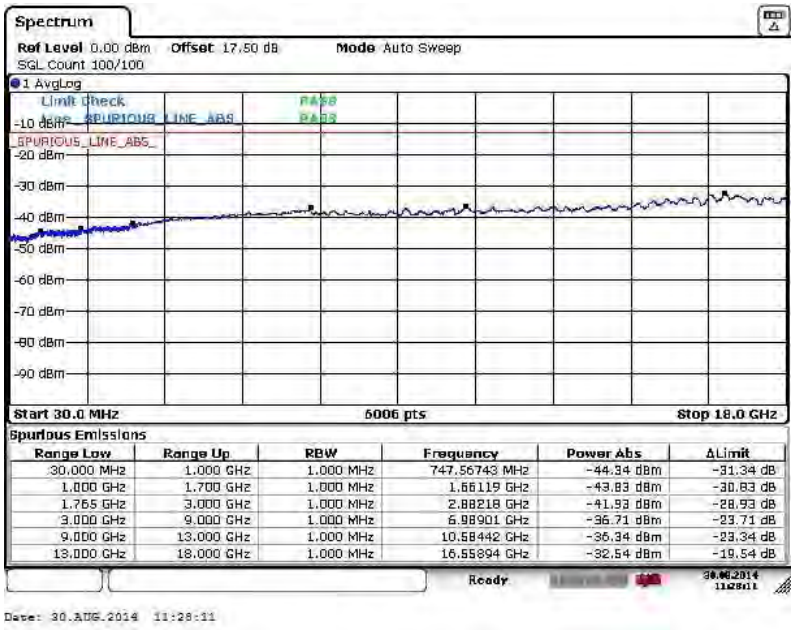


16QAM (RB Size 1, RB Offset 0)



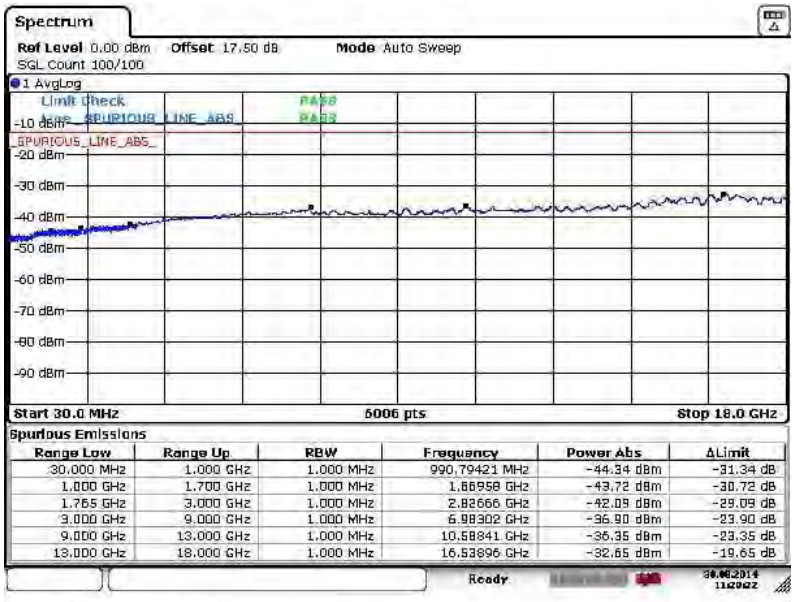
Band :	LTE Band 4	Channel :	CH20375 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 30.AUG.2014 11:28:11

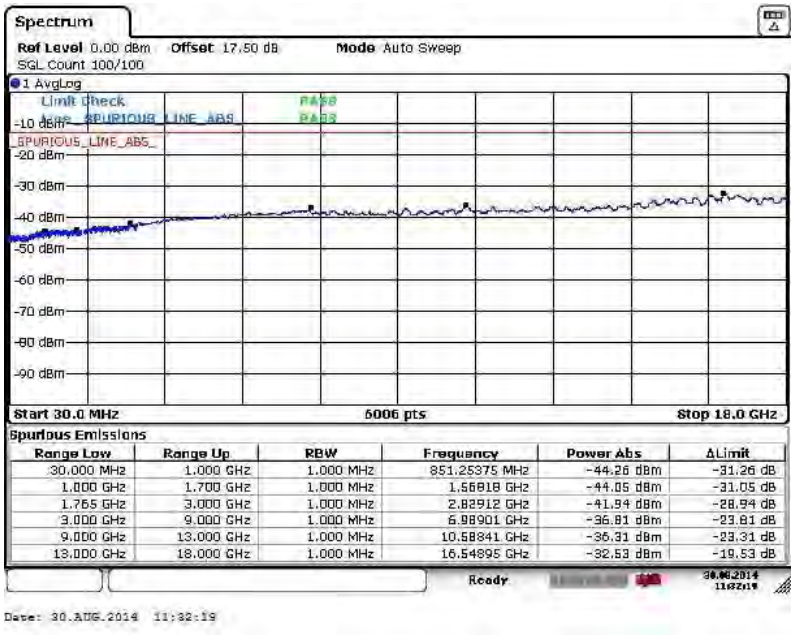
16QAM (RB Size 1, RB Offset 0)



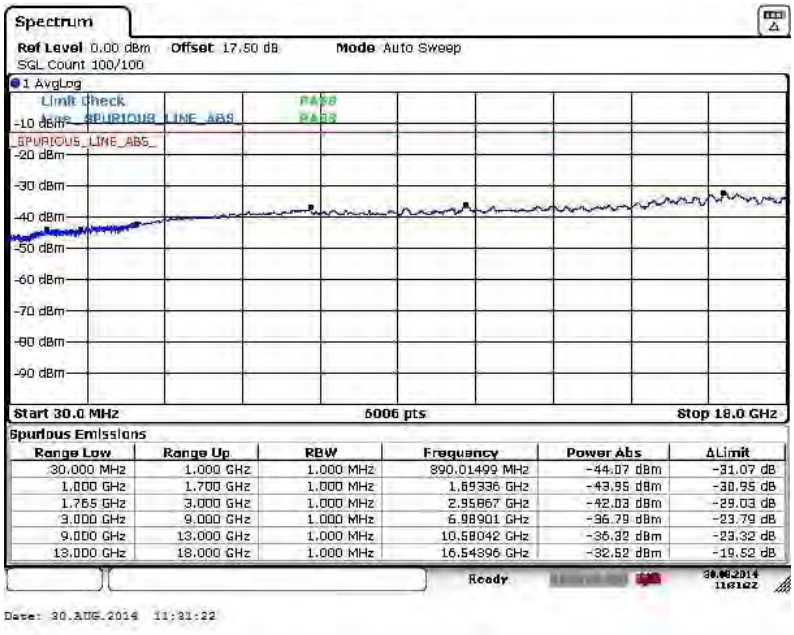
Date: 30.AUG.2014 11:29:22

Band :	LTE Band 4	Channel :	CH20000 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

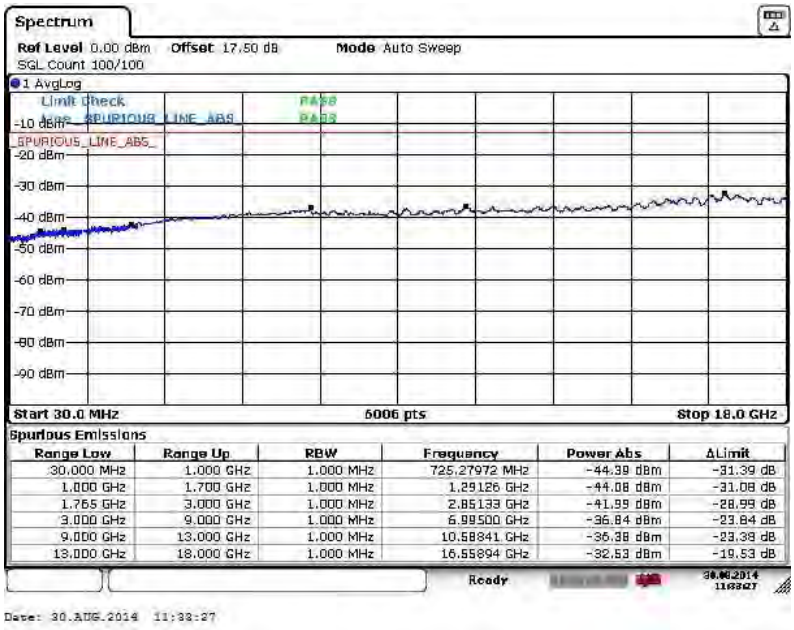


16QAM (RB Size 1, RB Offset 0)

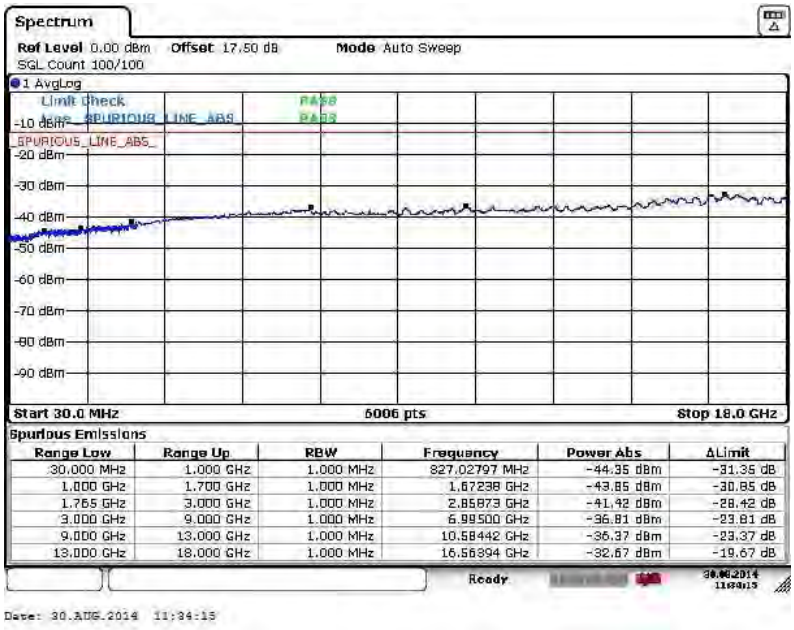


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

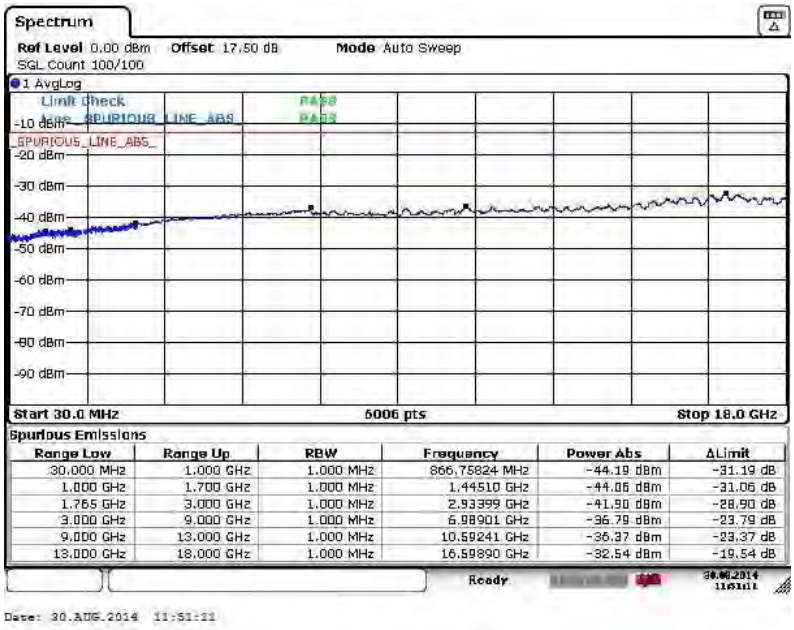


16QAM (RB Size 1, RB Offset 0)

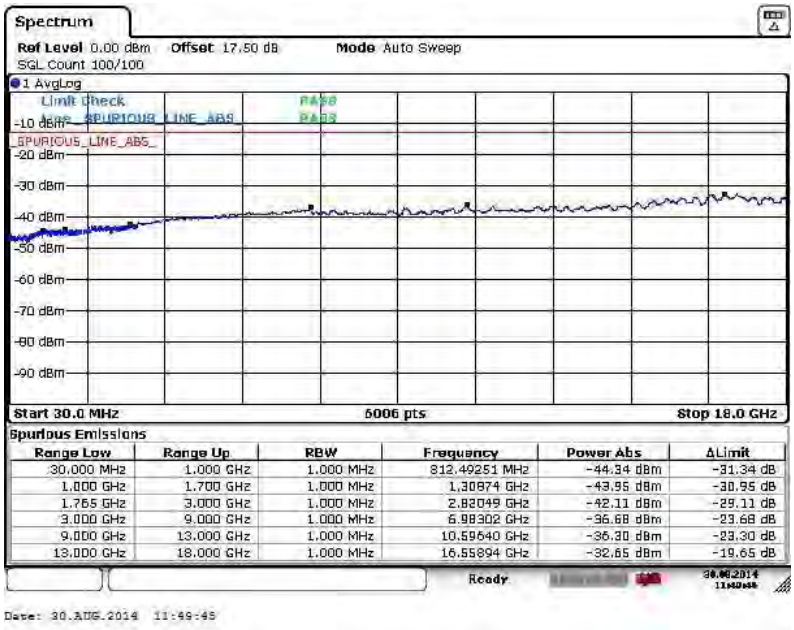


Band :	LTE Band 4	Channel :	CH20350 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

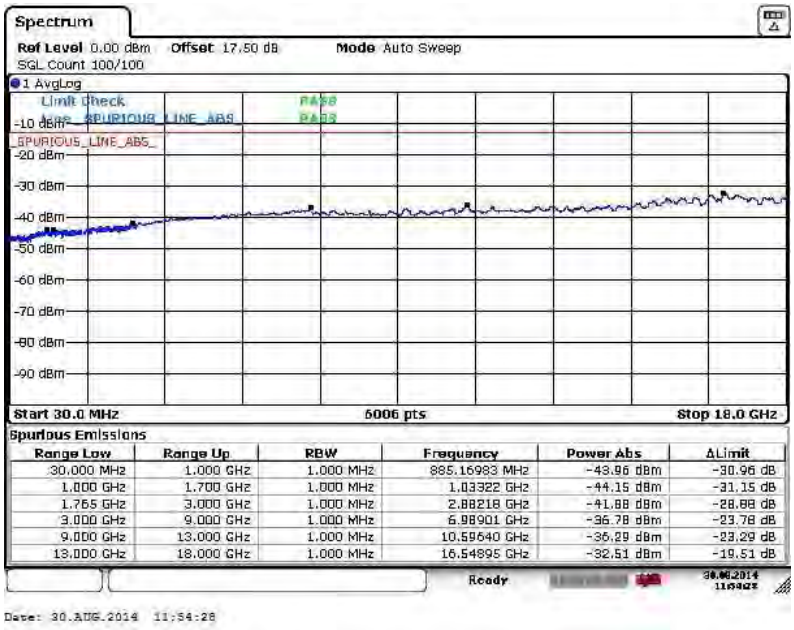


16QAM (RB Size 1, RB Offset 0)

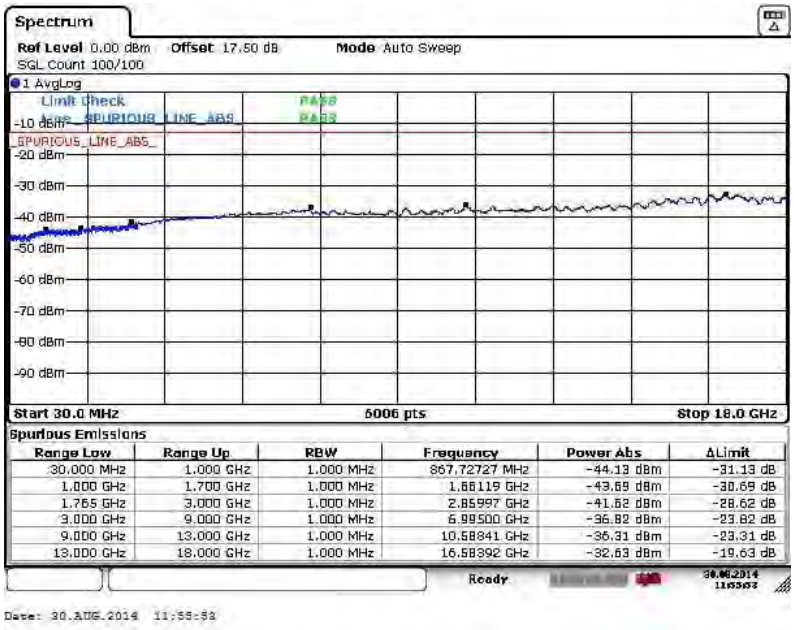


Band :	LTE Band 4	Channel :	CH20025 (Low)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

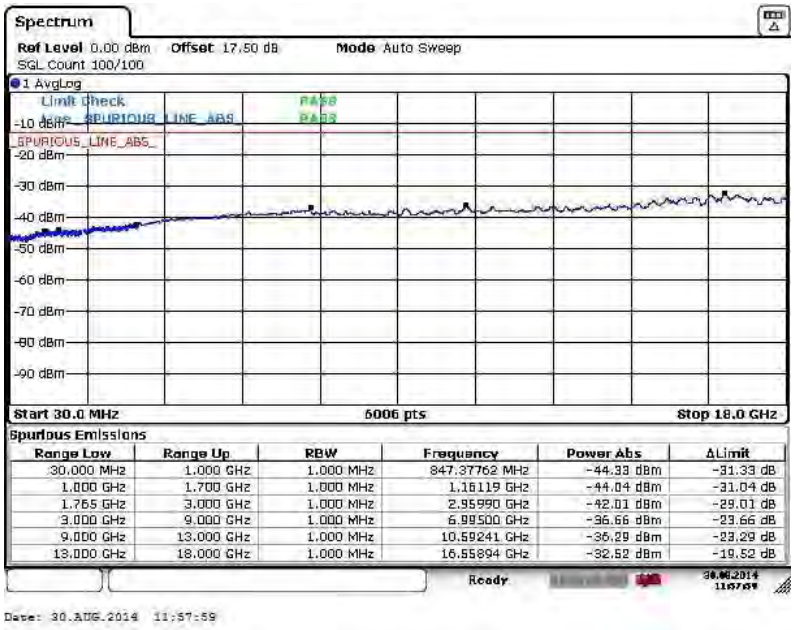


16QAM (RB Size 1, RB Offset 0)

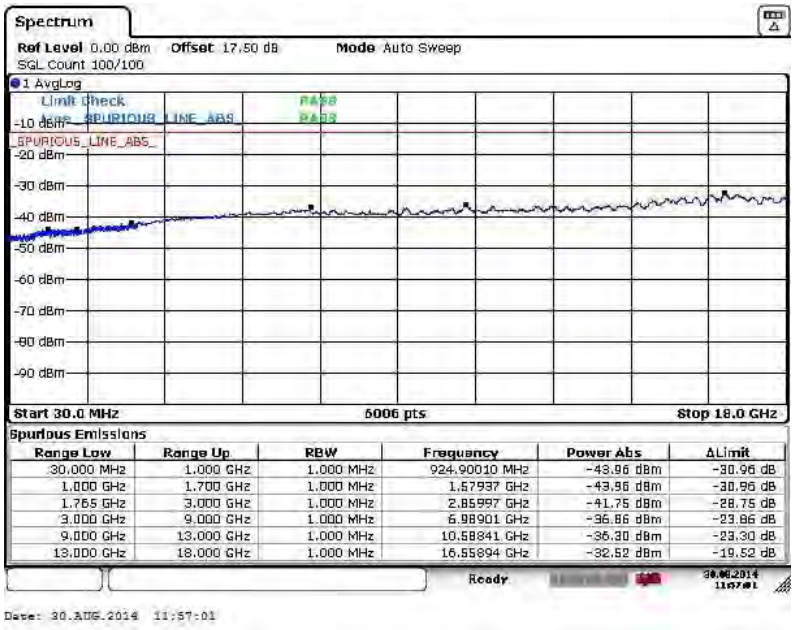


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

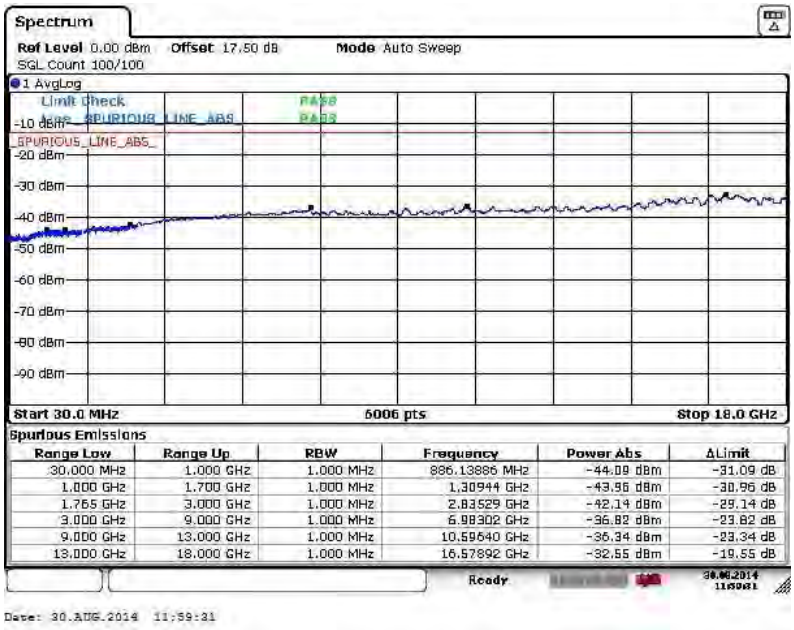


16QAM (RB Size 1, RB Offset 0)

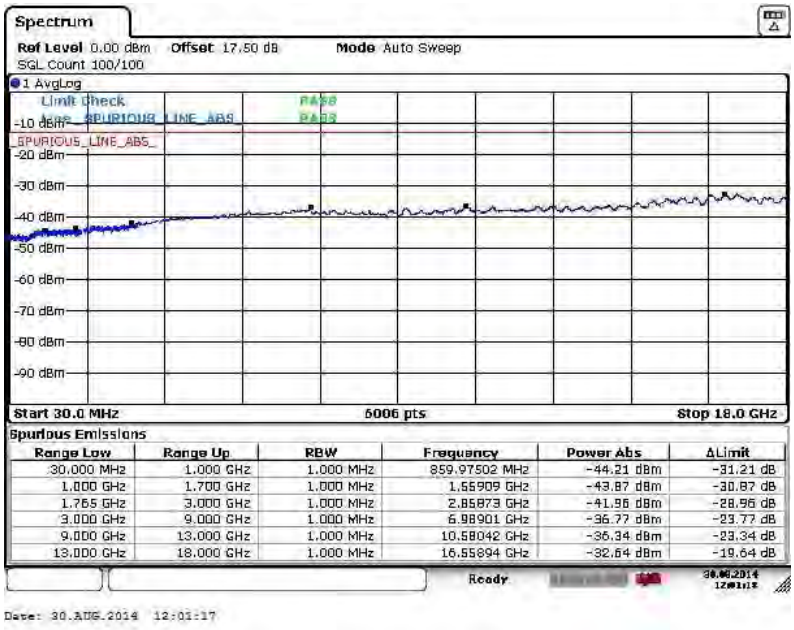


Band :	LTE Band 4	Channel :	CH20325 (High)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

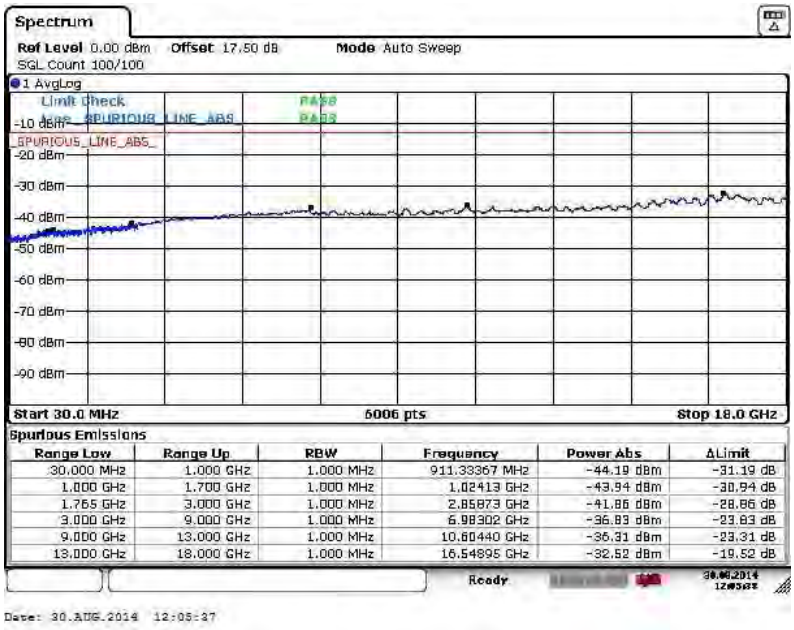


16QAM (RB Size 1, RB Offset 0)

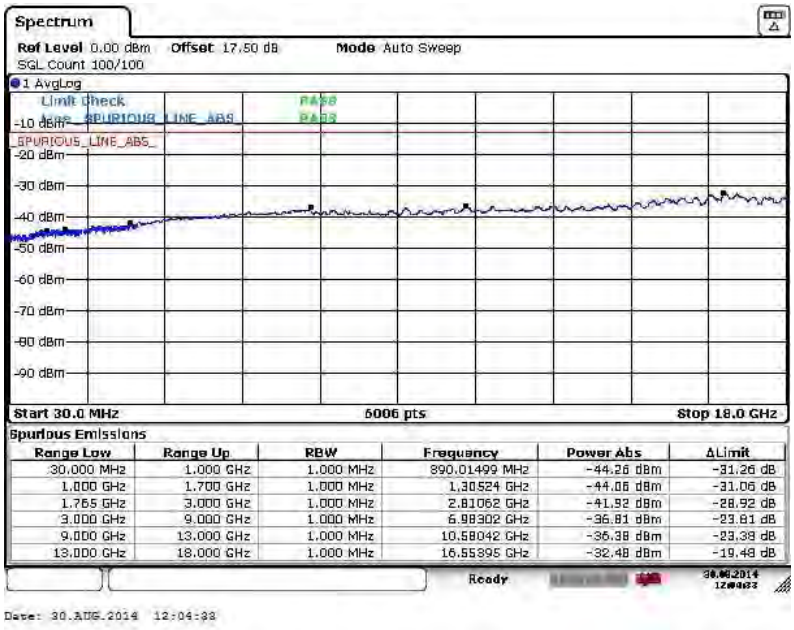


Band :	LTE Band 4	Channel :	CH20050 (Low)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

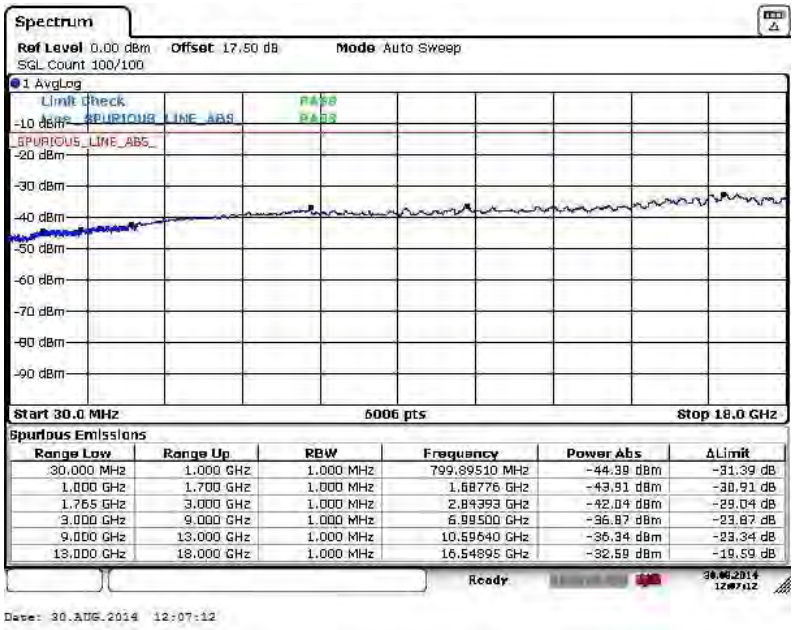


16QAM (RB Size 1, RB Offset 0)

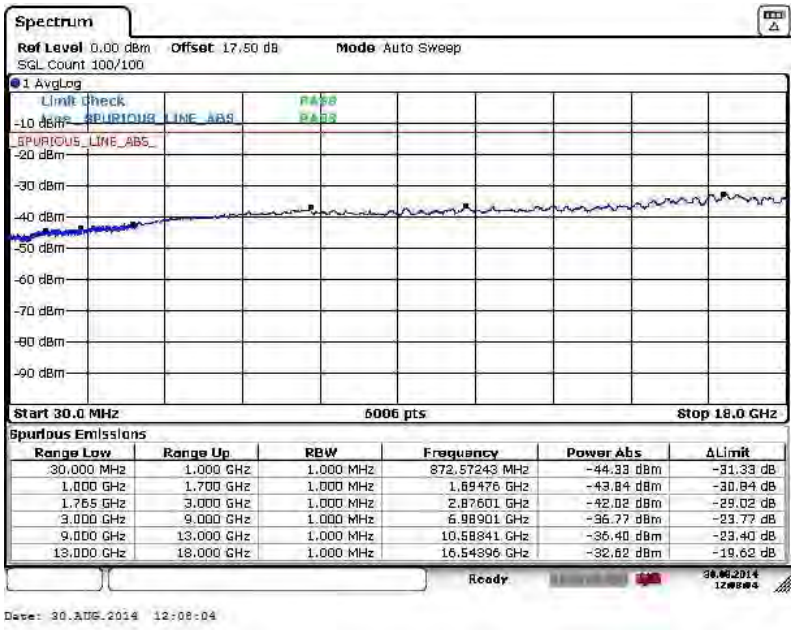


Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

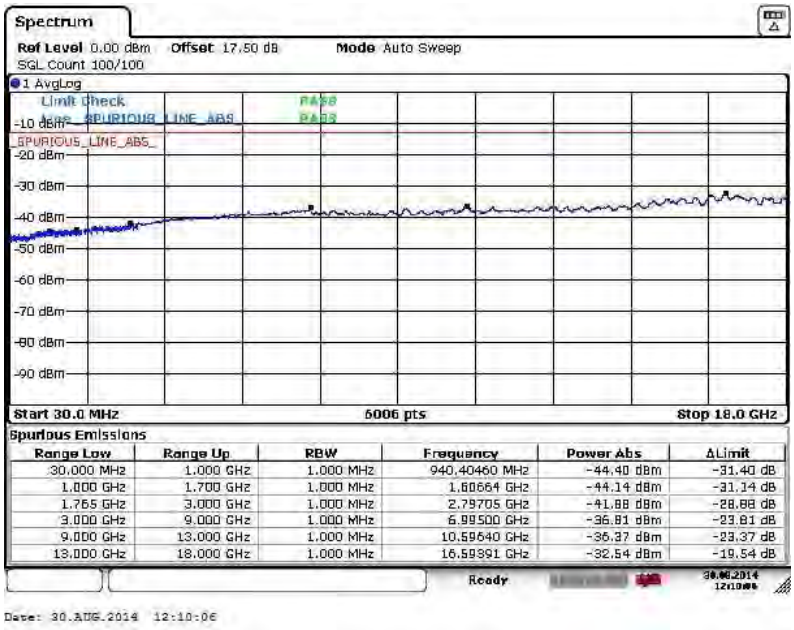


16QAM (RB Size 1, RB Offset 0)

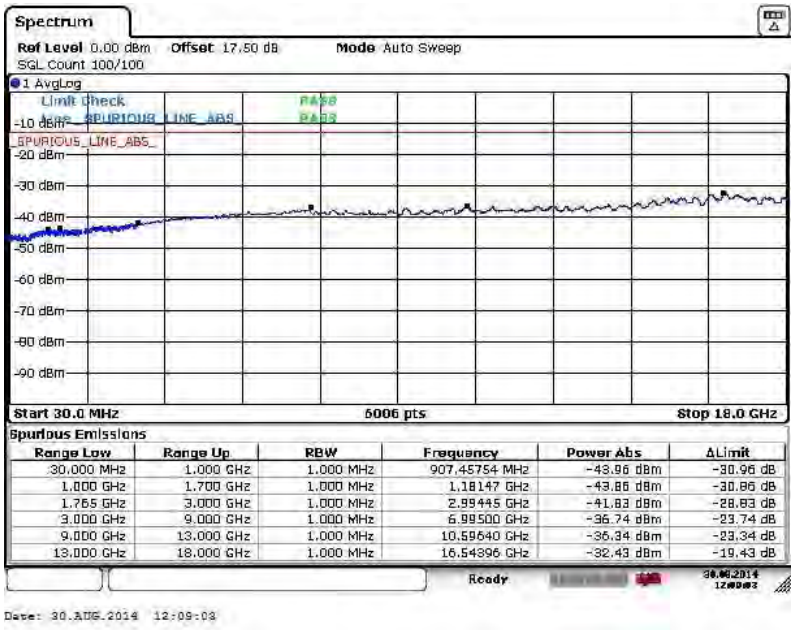


Band :	LTE Band 4	Channel :	CH20300 (High)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

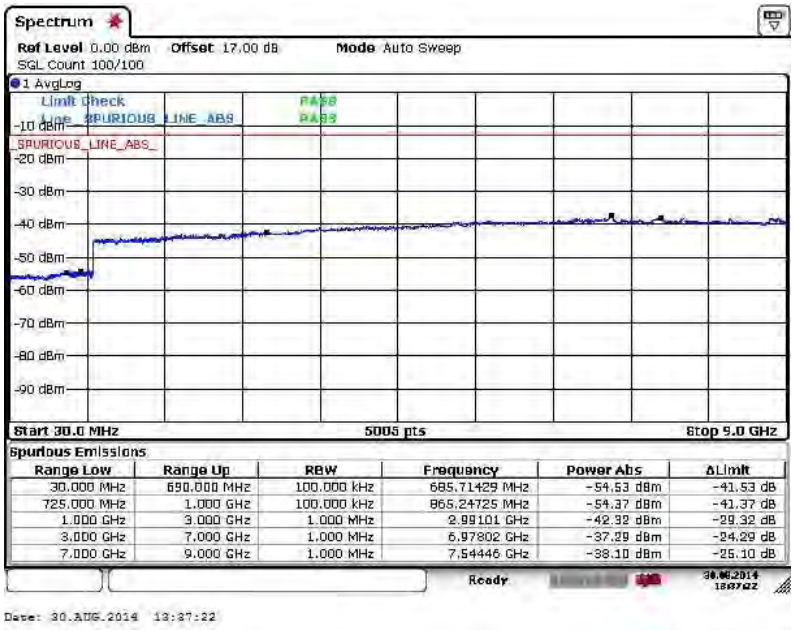


16QAM (RB Size 1, RB Offset 0)

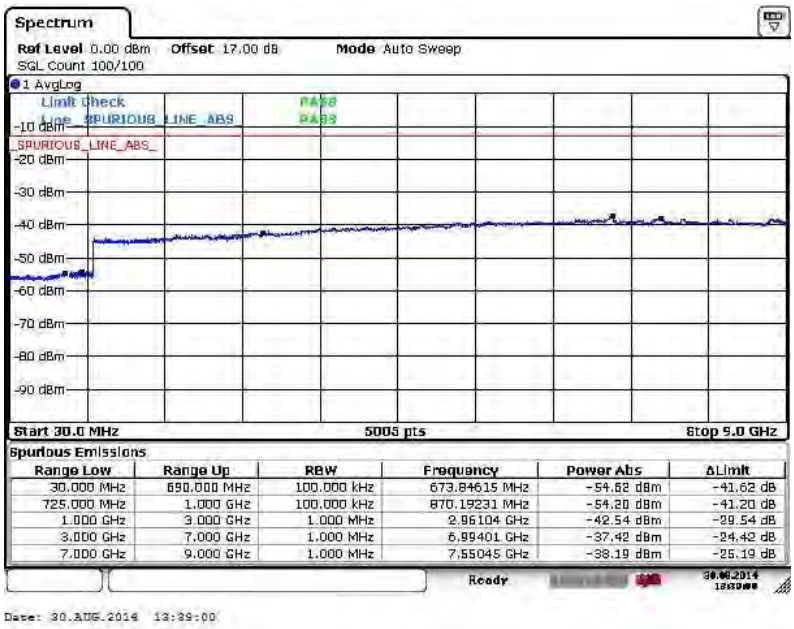


Band :	LTE Band 17	Channel :	CH23755 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

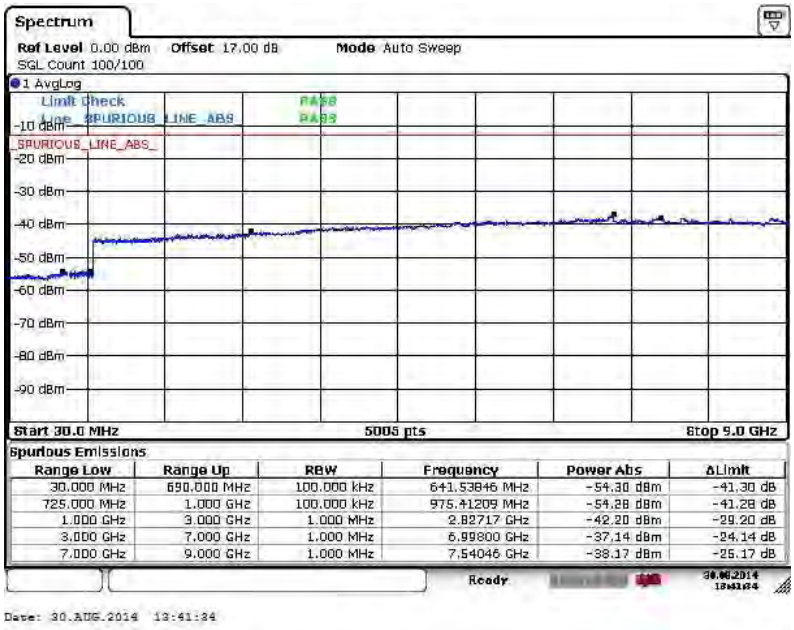


16QAM (RB Size 1, RB Offset 0)

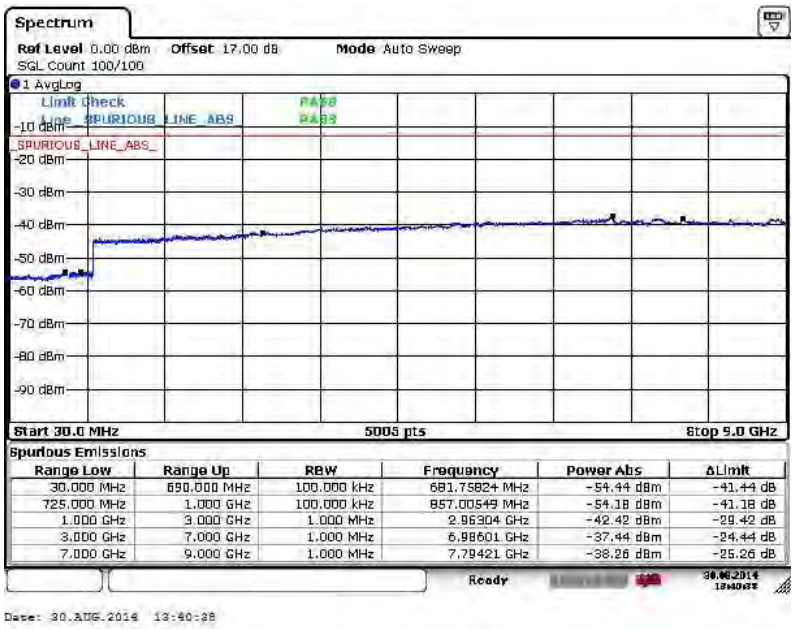


Band :	LTE Band 17	Channel :	CH23790 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

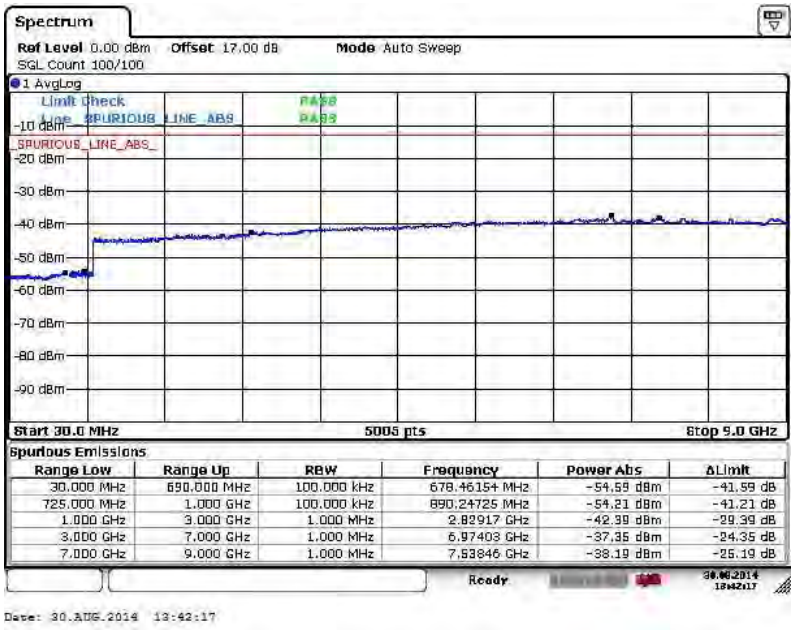


16QAM (RB Size 1, RB Offset 0)

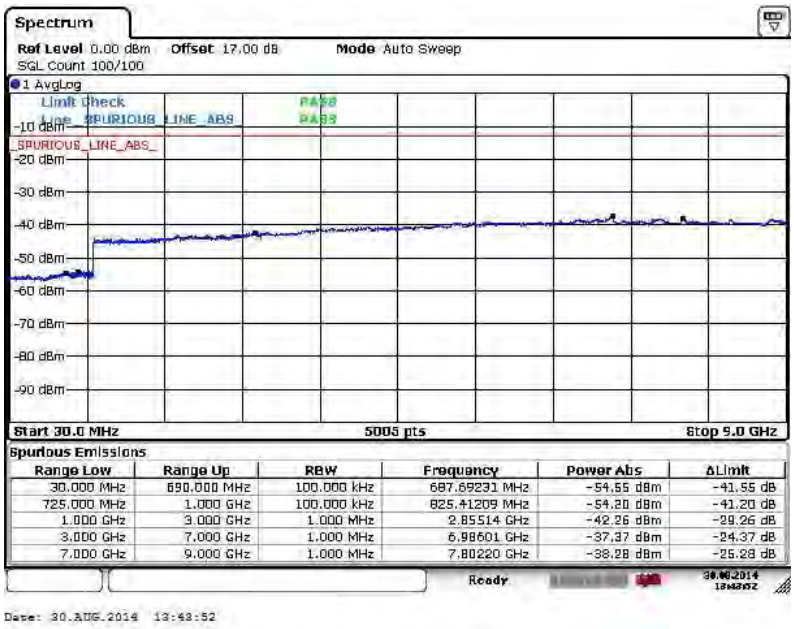


Band :	LTE Band 17	Channel :	CH23825 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

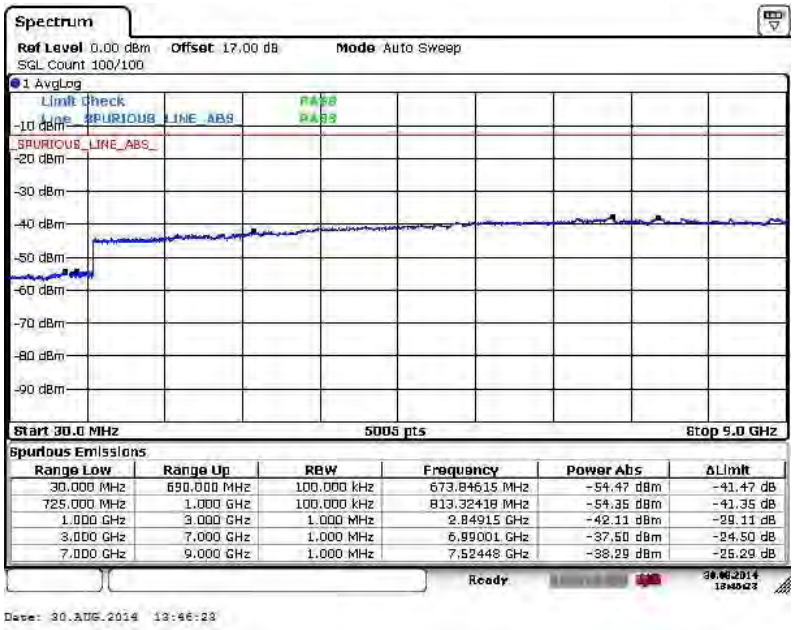


16QAM (RB Size 1, RB Offset 0)

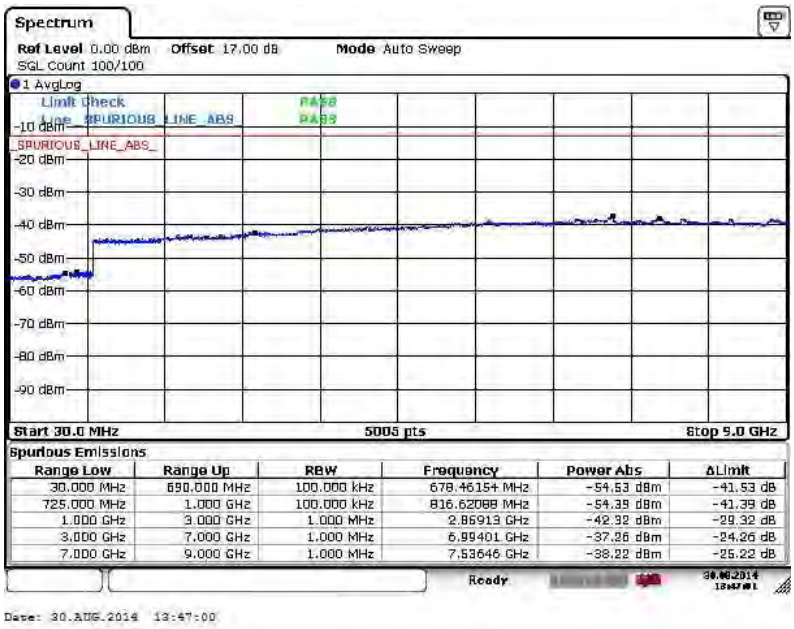


Band :	LTE Band 17	Channel :	CH23780 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

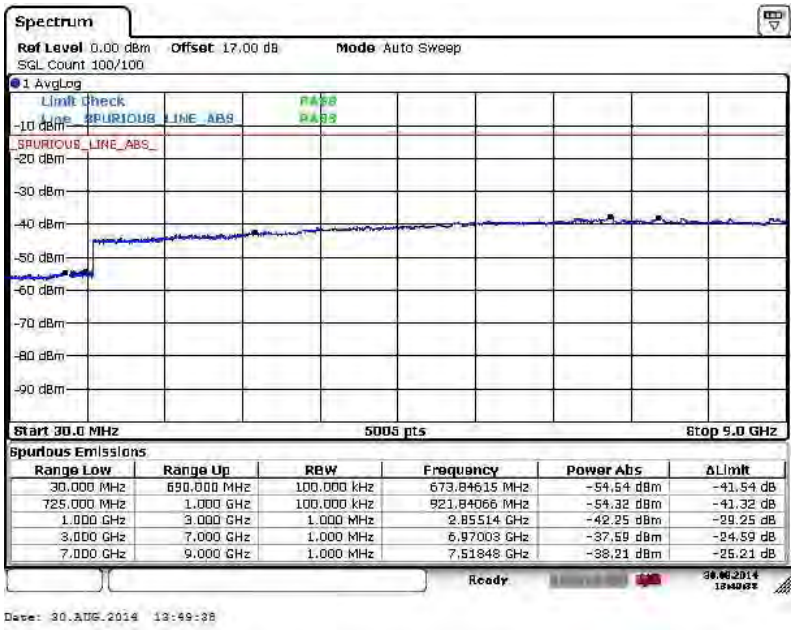


16QAM (RB Size 1, RB Offset 0)

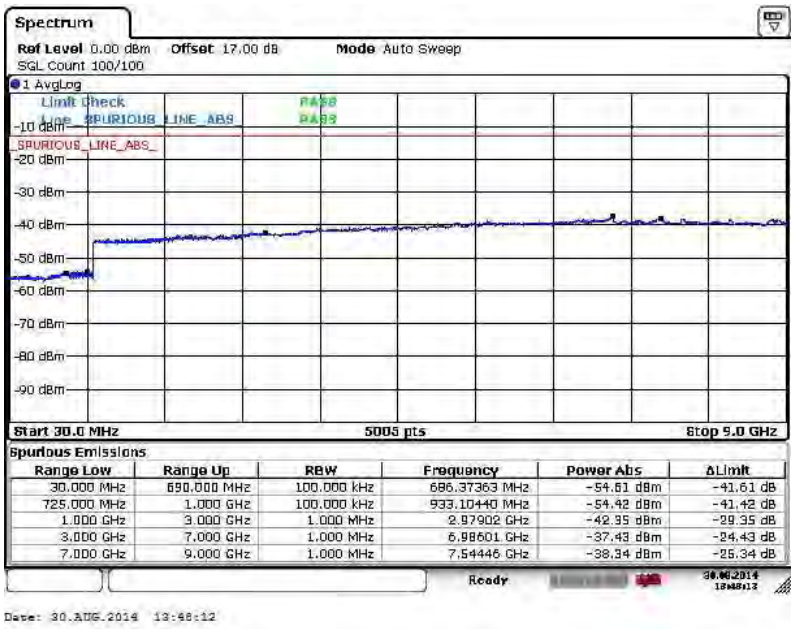


Band :	LTE Band 17	Channel :	CH23790 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

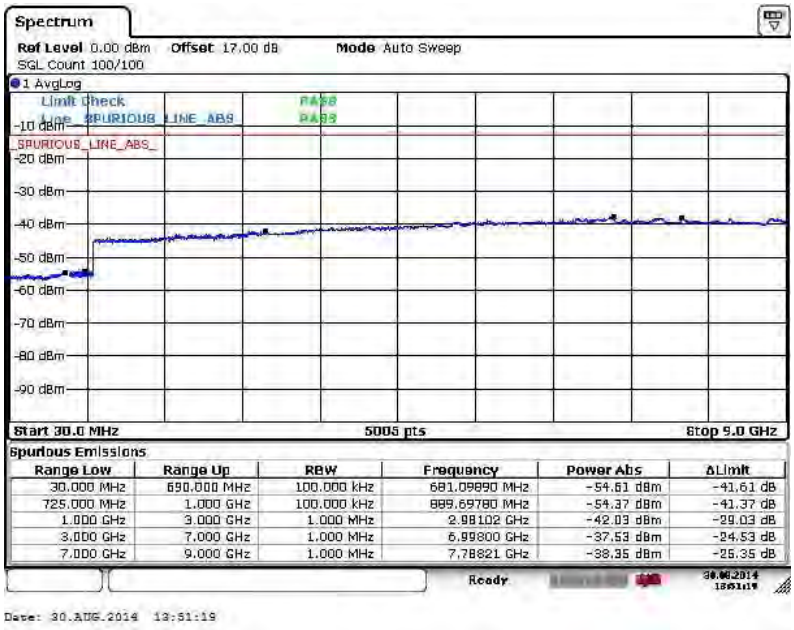


16QAM (RB Size 1, RB Offset 0)

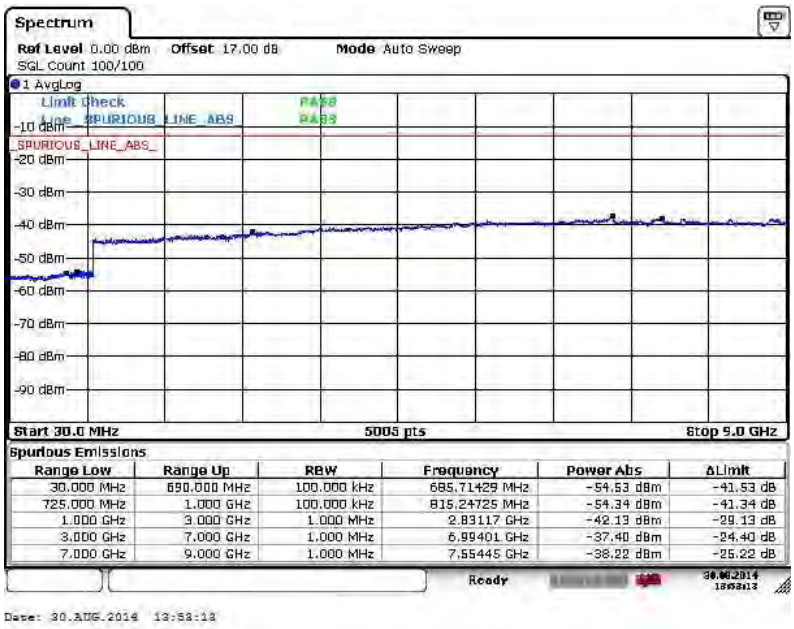


Band :	LTE Band 17	Channel :	CH23800 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

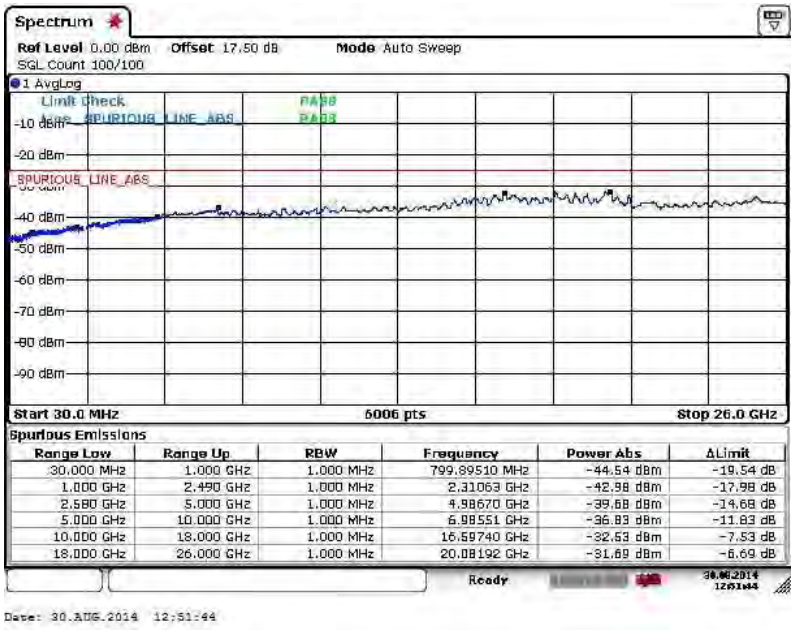


16QAM (RB Size 1, RB Offset 0)

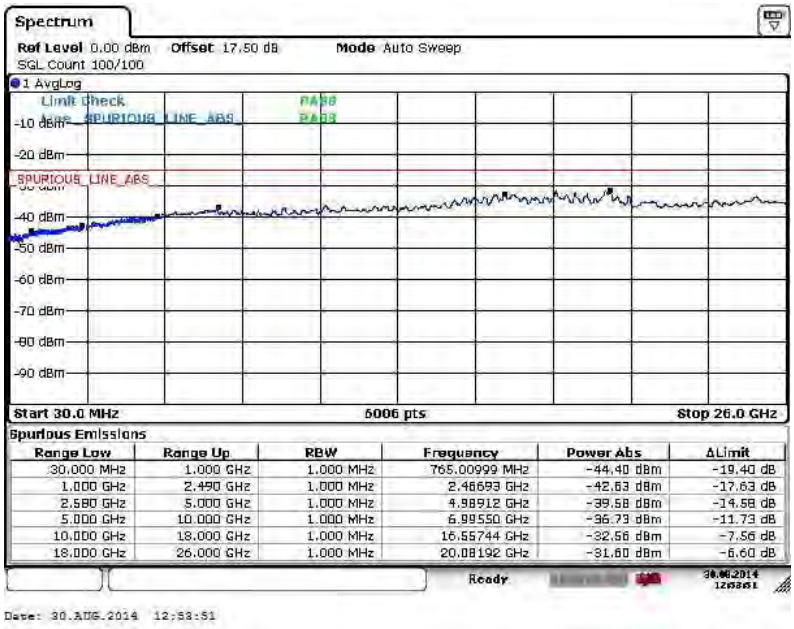


Band :	LTE Band 7	Channel :	CH20775 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

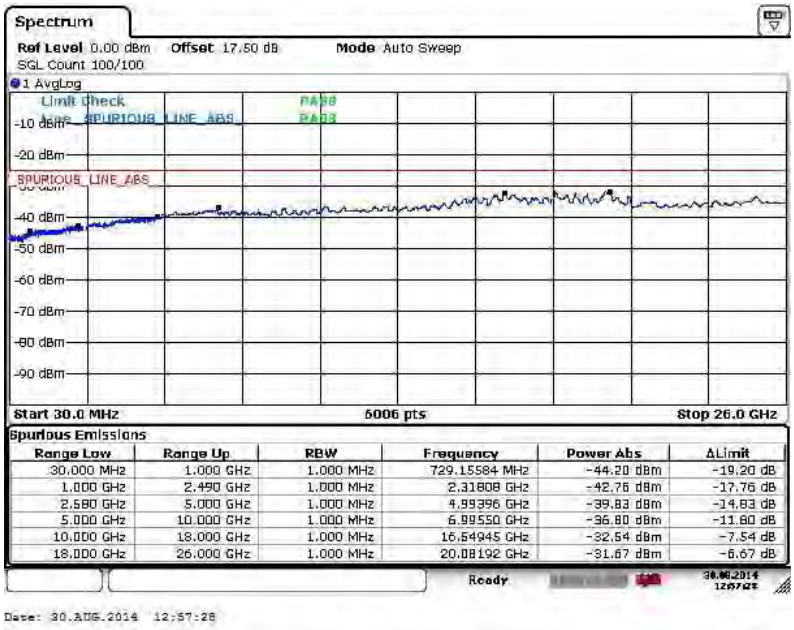


16QAM (RB Size 1, RB Offset 0)

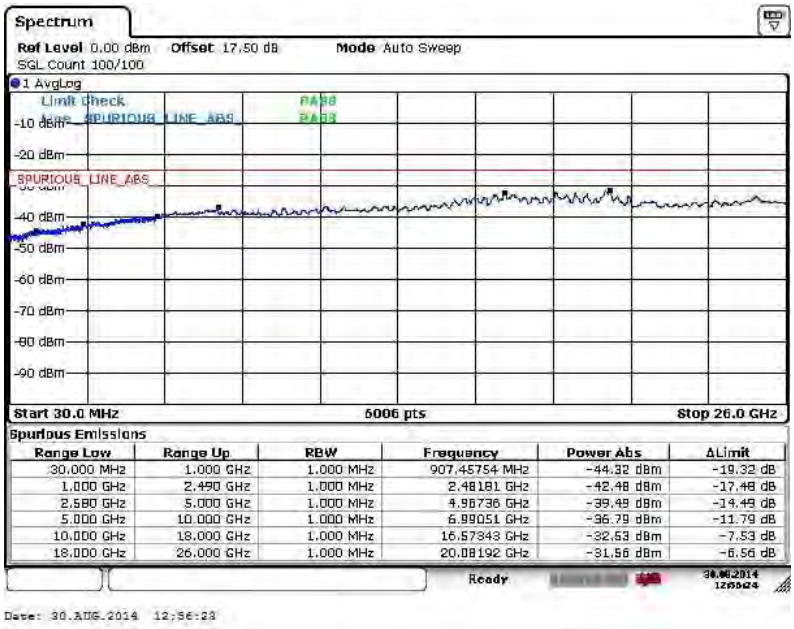


Band :	LTE Band 7	Channel :	CH21100 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

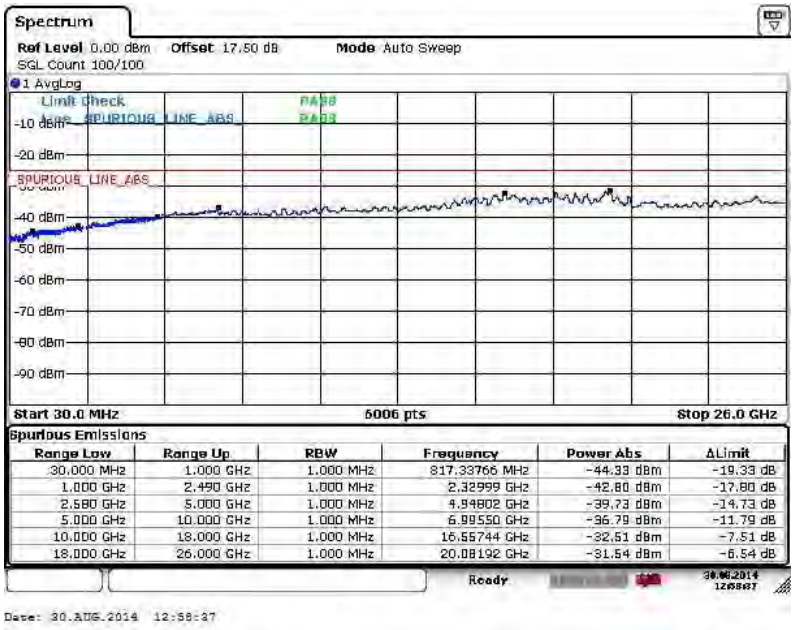


16QAM (RB Size 1, RB Offset 0)

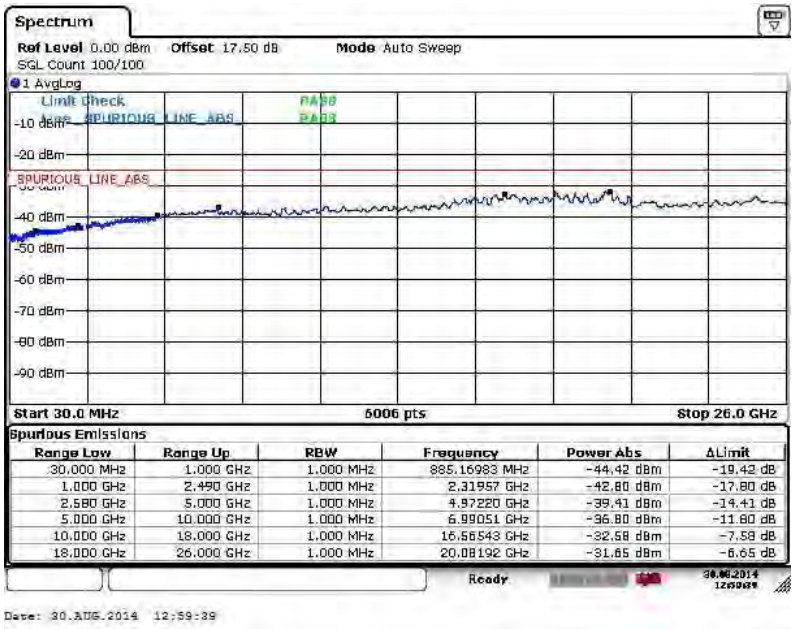


Band :	LTE Band 7	Channel :	CH21425 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)

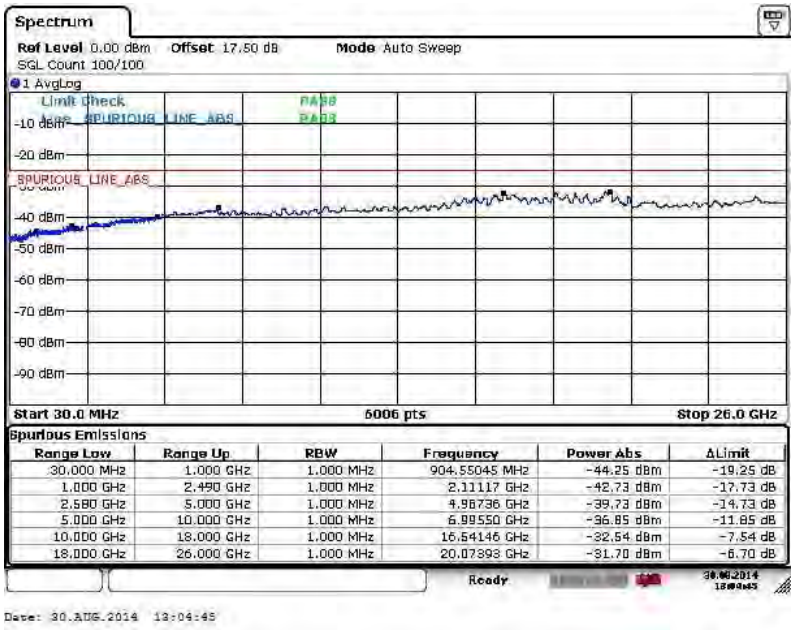


16QAM (RB Size 1, RB Offset 0)

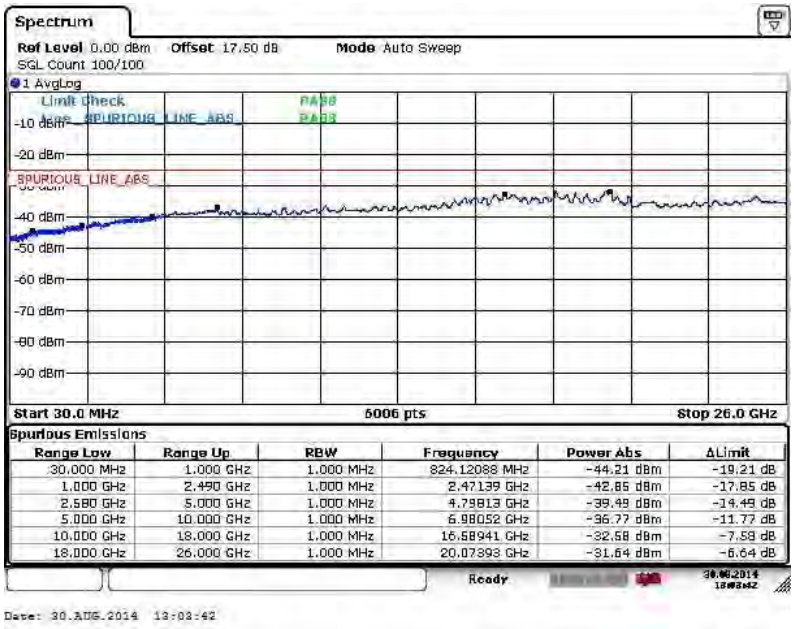


Band :	LTE Band 7	Channel :	CH20800 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

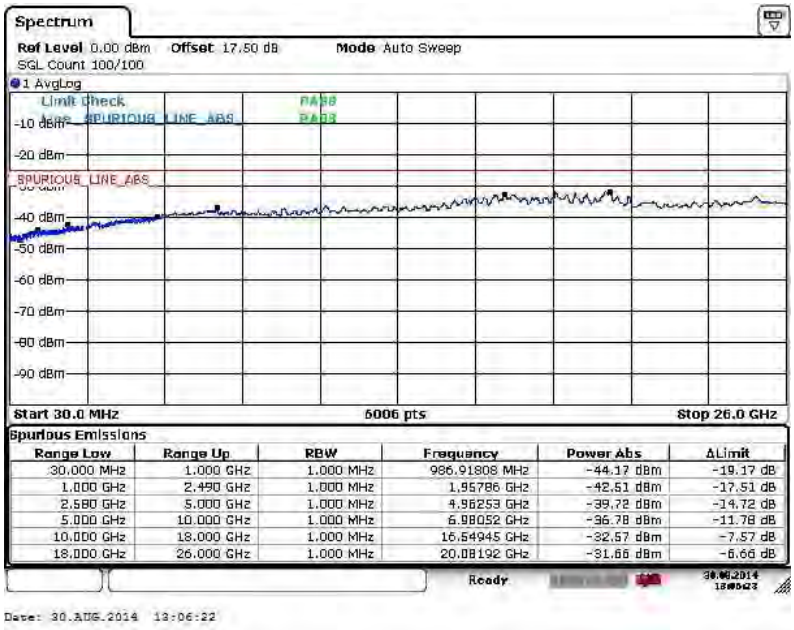


16QAM (RB Size 1, RB Offset 0)



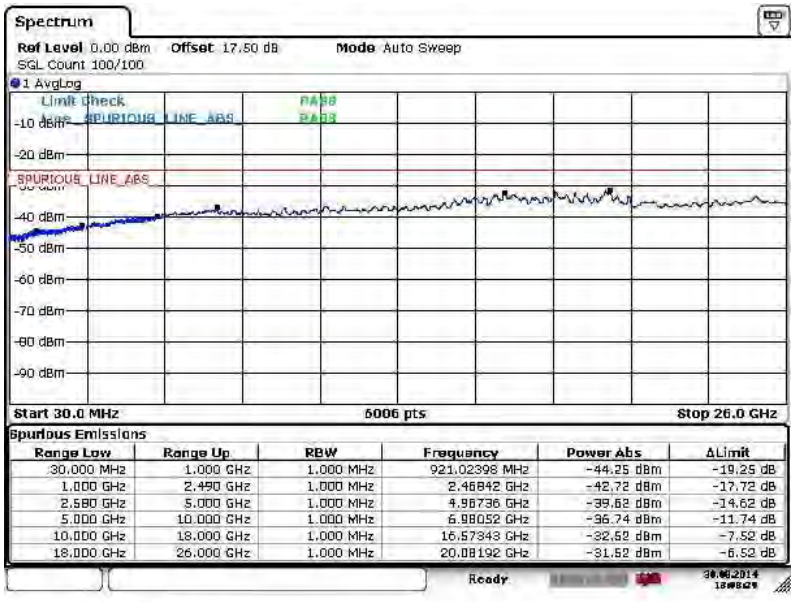
Band :	LTE Band 7	Channel :	CH21100 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 30.AUG.2014 13:06:22

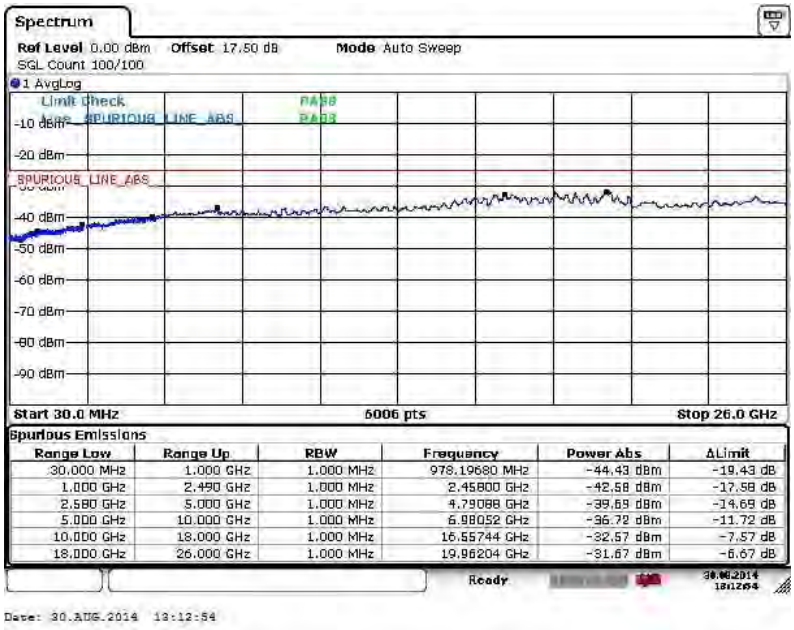
16QAM (RB Size 1, RB Offset 0)



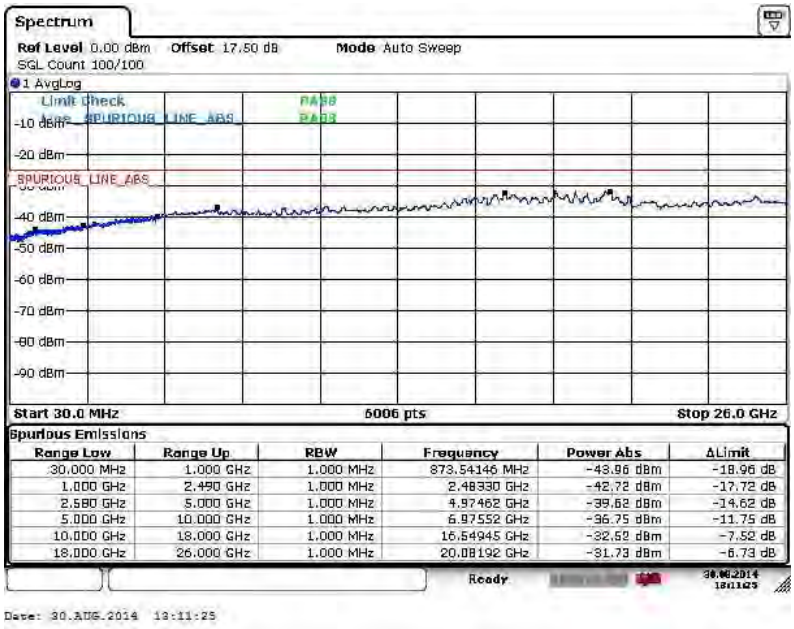
Date: 30.AUG.2014 13:08:29

Band :	LTE Band 7	Channel :	CH21400 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)

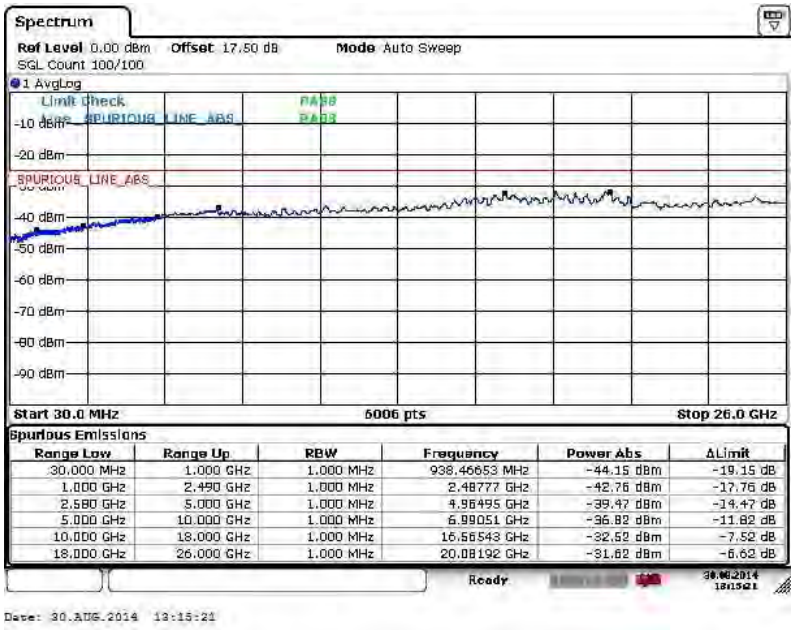


16QAM (RB Size 1, RB Offset 0)

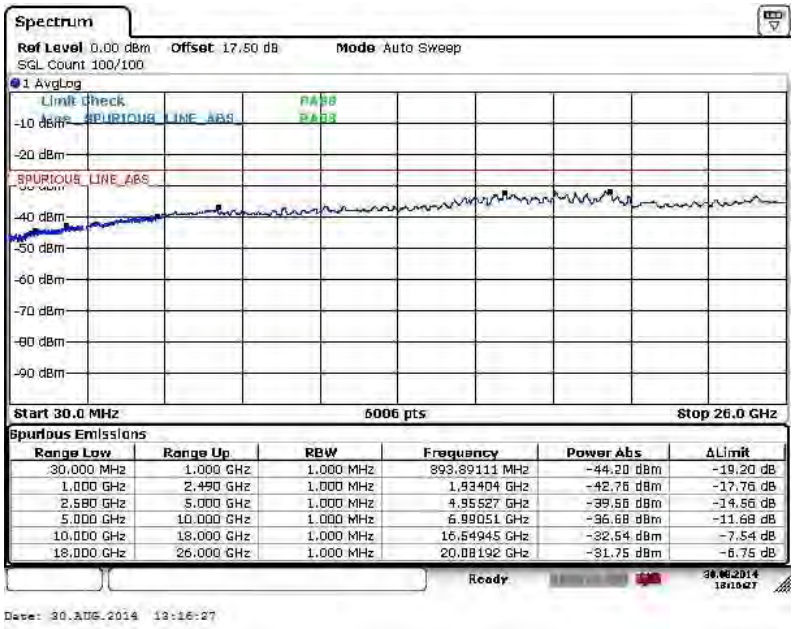


Band :	LTE Band 7	Channel :	CH20825 (Low)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

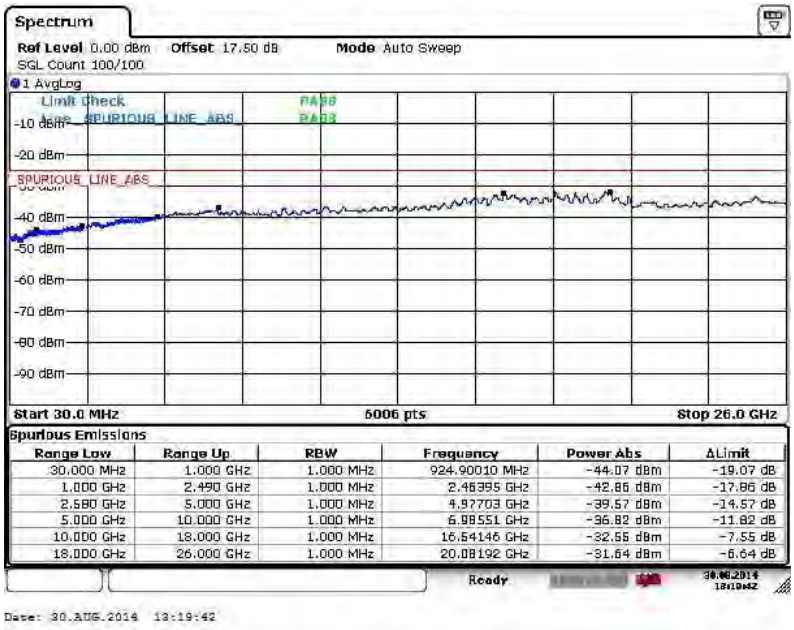


16QAM (RB Size 1, RB Offset 0)

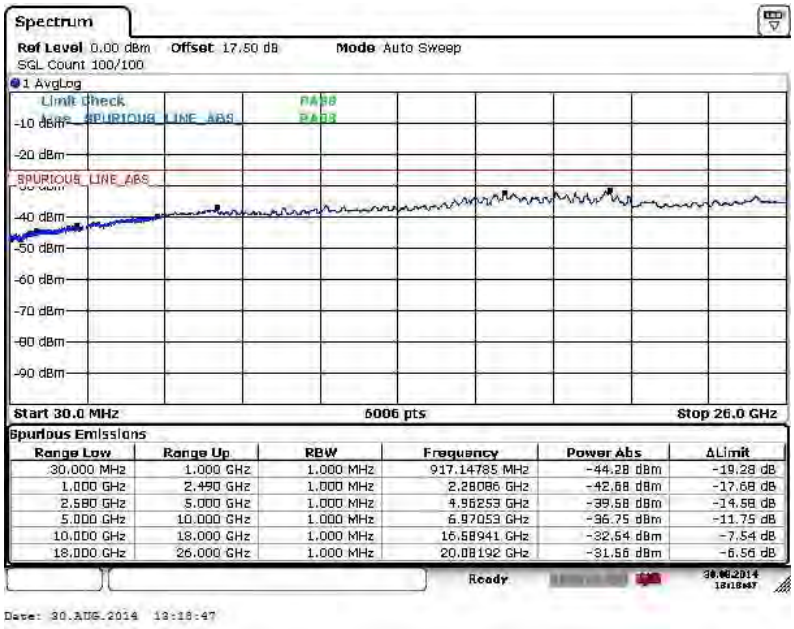


Band :	LTE Band 7	Channel :	CH21100 (Middle)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

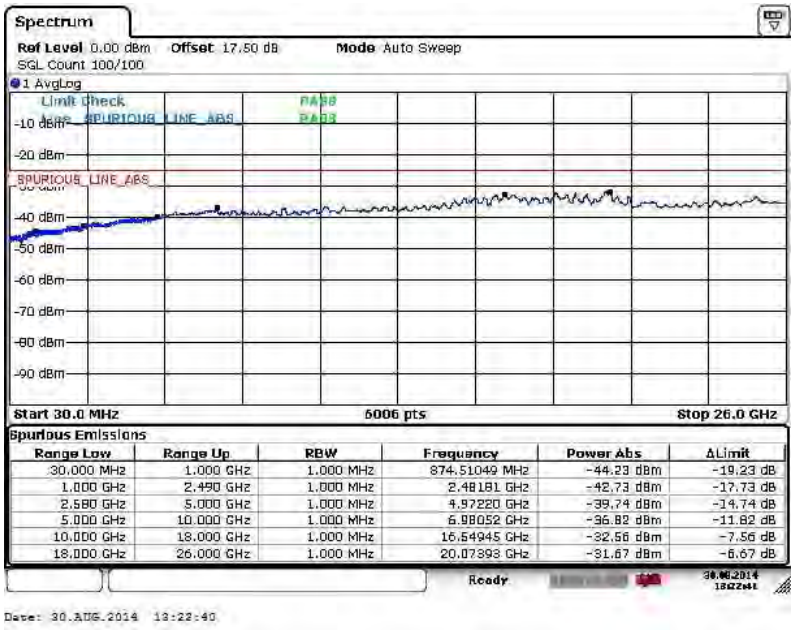


16QAM (RB Size 1, RB Offset 0)

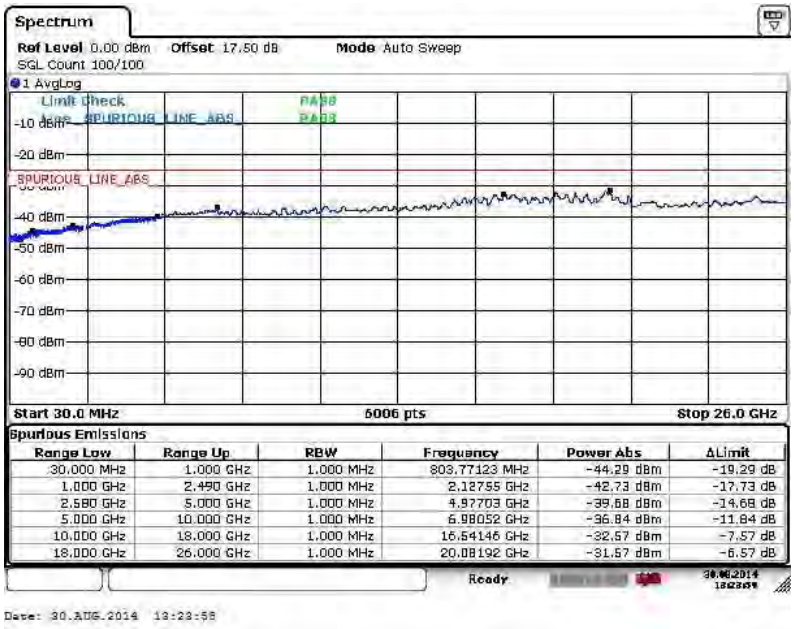


Band :	LTE Band 7	Channel :	CH21375 (High)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)

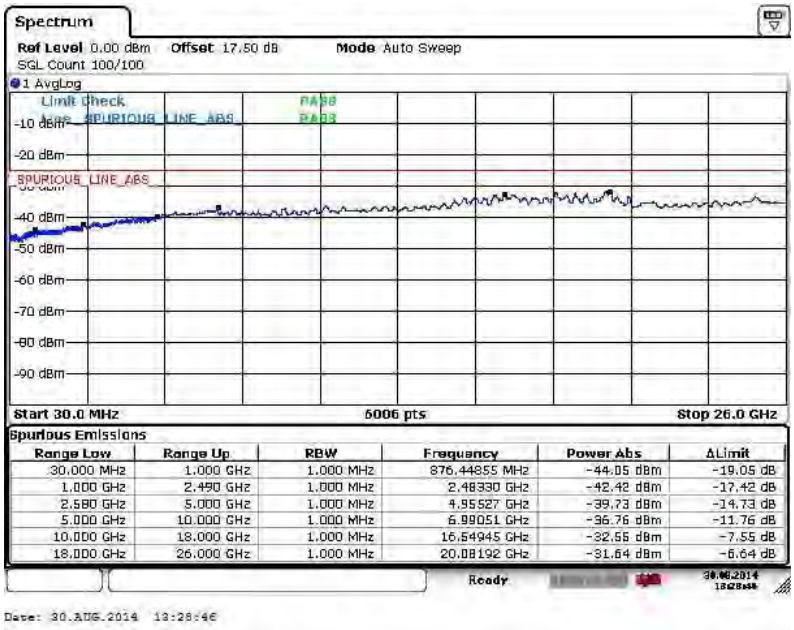


16QAM (RB Size 1, RB Offset 0)

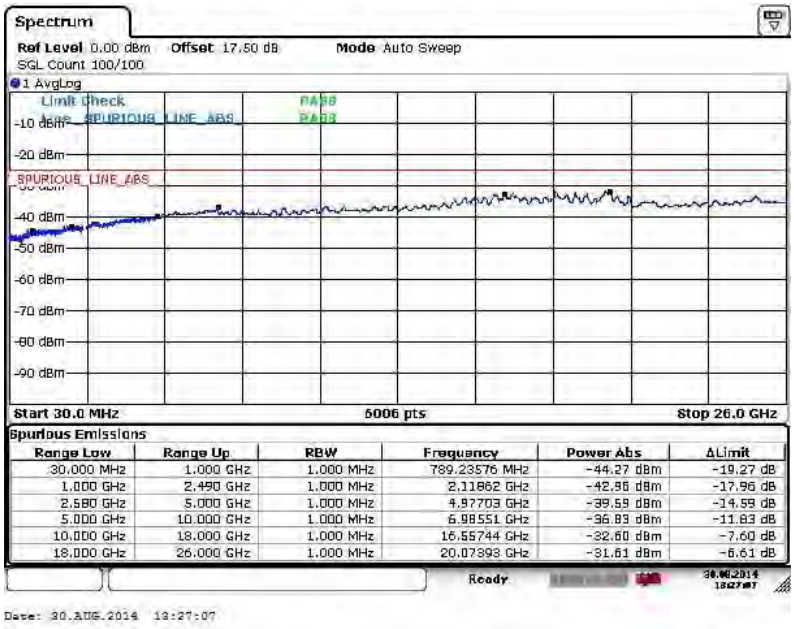


Band :	LTE Band 7	Channel :	CH20850 (Low)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

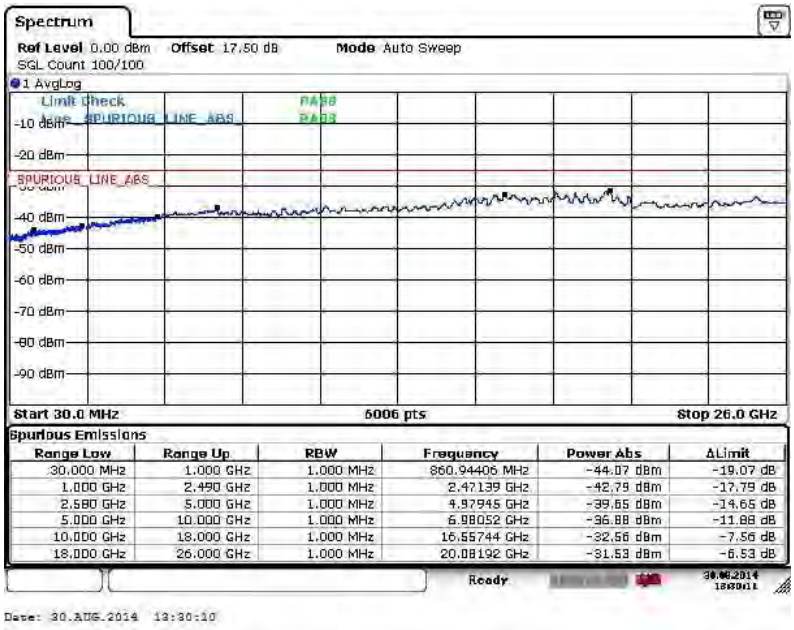


16QAM (RB Size 1, RB Offset 0)

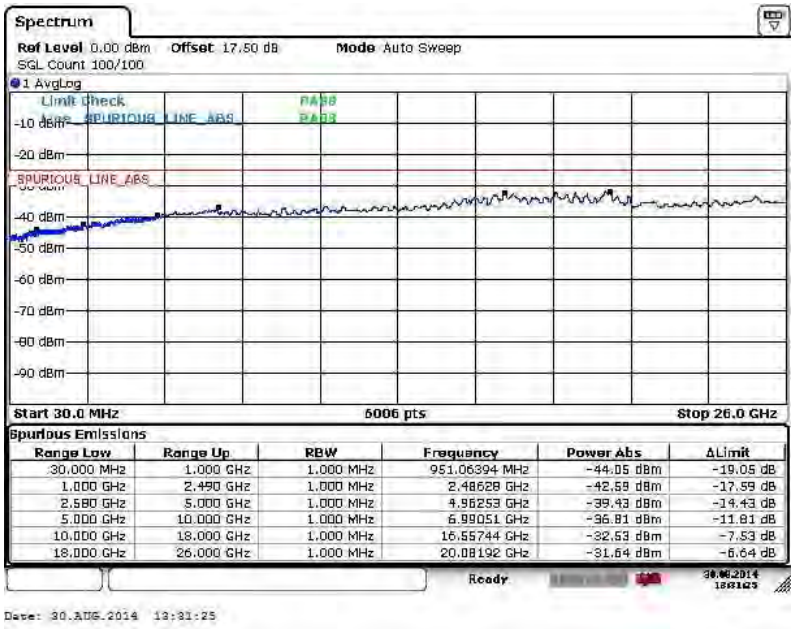


Band :	LTE Band 7	Channel :	CH21100 (Middle)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)

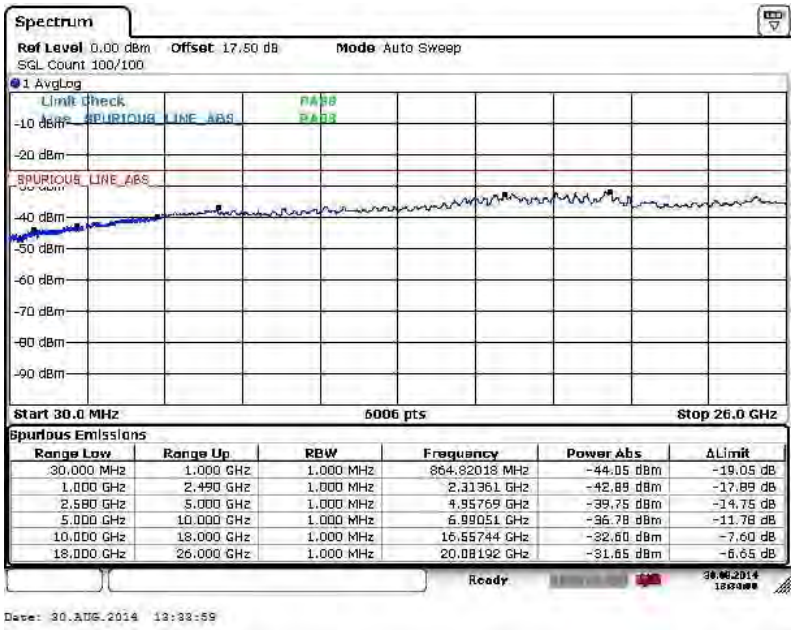


16QAM (RB Size 1, RB Offset 0)

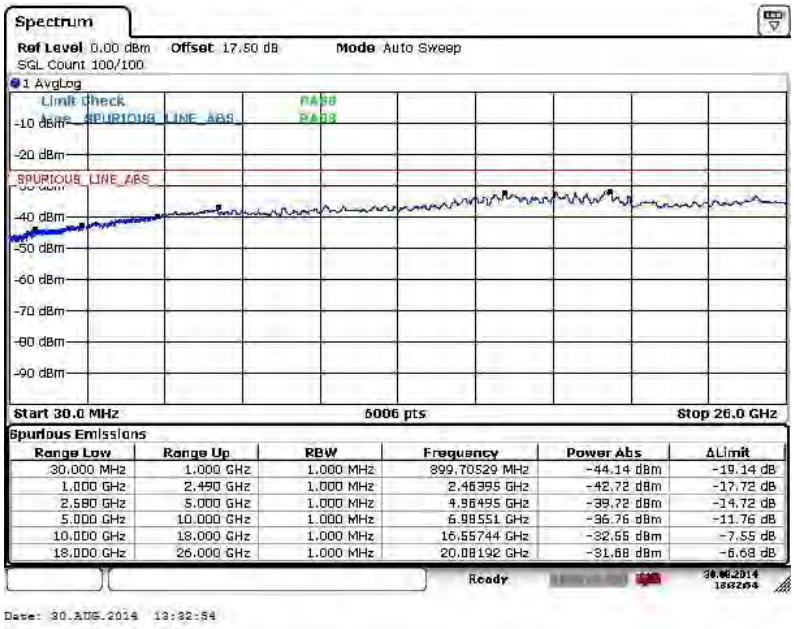


Band :	LTE Band 7	Channel :	CH21350 (High)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)



16QAM (RB Size 1, RB Offset 0)



3.7 Radiated Spurious Emission Measurement

3.7.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 55 + 10 log (P) dB.

For LTE Band 17
For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Measuring Instruments

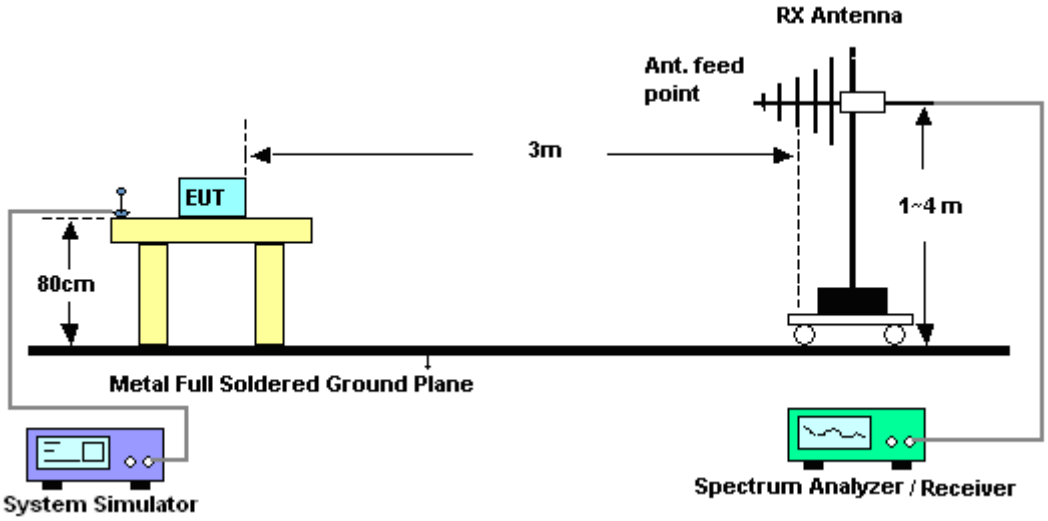
The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedures

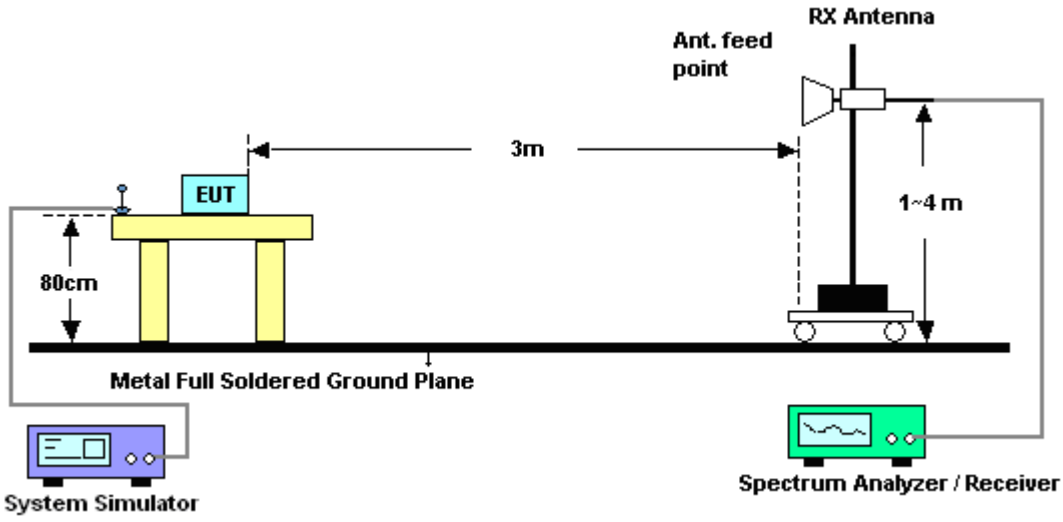
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
    For Band 7
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (dBm) = EIRP - 2.15

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.7.5 Test Result of Field Strength of Spurious Radiated

<Low Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-47.46	-13	-34.46	-53.22	-49.22	0.98	4.89	H	Pass
2472	-35.12	-13	-22.12	-45.84	-37	1.28	5.32	H	Pass
3296	-46.71	-13	-33.71	-58.31	-50.12	1.54	7.10	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-46.67	-13	-33.67	-55.18	-48.43	0.98	4.89	V	Pass
2472	-43.08	-13	-30.08	-53.99	-44.96	1.28	5.32	V	Pass
3296	-39.45	-13	-26.45	-52.08	-42.86	1.54	7.10	V	Pass

<Middle Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-47.95	-13	-34.95	-54.56	-49.63	0.99	4.82	H	Pass
2504	-38.91	-13	-25.91	-49.68	-40.87	1.29	5.40	H	Pass
3344	-53.66	-13	-40.66	-65.09	-57.27	1.56	7.31	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-49.55	-13	-36.55	-57.96	-51.23	0.99	4.82	V	Pass
2504	-43.85	-13	-30.85	-54.62	-45.81	1.29	5.40	V	Pass
3344	-45.15	-13	-32.15	-58.15	-48.76	1.56	7.31	V	Pass

<High Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1696	-51.68	-13	-38.68	-58.27	-53.28	1.00	4.75	H	Pass
2544	-31.81	-13	-18.81	-42.68	-33.79	1.30	5.44	H	Pass
3392	-51.49	-13	-38.49	-63.39	-55.29	1.57	7.52	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1696	-53.13	-13	-40.13	-61.35	-54.73	1.00	4.75	V	Pass
2544	-33.30	-13	-20.30	-44.65	-35.28	1.30	5.44	V	Pass
3392	-41.02	-13	-28.02	-54.18	-44.82	1.57	7.52	V	Pass

<Low Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-47.22	-13	-34.22	-53.08	-48.98	0.98	4.89	H	Pass
2472	-34.98	-13	-21.98	-45.44	-36.86	1.28	5.32	H	Pass
3296	-49.06	-13	-36.06	-60.75	-52.47	1.54	7.10	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-47.25	-13	-34.25	-55.19	-49.01	0.98	4.89	V	Pass
2472	-42.91	-13	-29.91	-54.15	-44.79	1.28	5.32	V	Pass
3296	-37.68	-13	-24.68	-50.63	-41.09	1.54	7.10	V	Pass

<Middle Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-48.42	-13	-35.42	-45.57	-50.1	0.99	4.82	H	Pass
2504	-34.52	-13	-21.52	-45.17	-36.48	1.29	5.40	H	Pass
3344	-55.88	-13	-42.88	-67.46	-59.49	1.56	7.31	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-51.93	-13	-38.93	-60.36	-53.61	0.99	4.82	V	Pass
2504	-42.16	-13	-29.16	-53.13	-44.12	1.29	5.40	V	Pass
3344	-49.25	-13	-36.25	-62.32	-52.86	1.56	7.31	V	Pass

<High Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1688	-54.23	-13	-41.23	-60.52	-55.86	1.00	4.77	H	Pass
2536	-31.45	-13	-18.45	-42.34	-33.43	1.30	5.43	H	Pass
3384	-47.59	-13	-34.59	-59.86	-51.36	1.57	7.49	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1688	-54.50	-13	-41.50	-63.22	-56.13	1.00	4.77	V	Pass
2536	-35.23	-13	-22.23	-46.48	-37.21	1.30	5.43	V	Pass
3384	-37.09	-13	-24.09	-49.87	-40.86	1.57	7.49	V	Pass

<Low Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-47.20	-13	-34.20	-53.14	-48.96	0.98	4.89	H	Pass
2472	-34.91	-13	-21.91	-45.47	-36.79	1.28	5.32	H	Pass
3296	-49.06	-13	-36.06	-60.09	-52.47	1.54	7.10	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-48.36	-13	-35.36	-56.68	-50.12	0.98	4.89	V	Pass
2472	-42.39	-13	-29.39	-56.21	-44.27	1.28	5.32	V	Pass
3296	-40.67	-13	-27.67	-53.62	-44.08	1.54	7.10	V	Pass

<Middle Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-51.24	-13	-38.24	-57.67	-52.92	0.99	4.82	H	Pass
2504	-34.05	-13	-21.05	-44.72	-36.01	1.29	5.40	H	Pass
3336	-56.68	-13	-43.68	-68.03	-60.26	1.55	7.28	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1664	-52.18	-13	-39.18	-60.75	-53.89	0.98	4.84	V	Pass
2504	-36.95	-13	-23.95	-47.57	-38.91	1.29	5.40	V	Pass
3336	-48.21	-13	-35.21	-61.01	-51.79	1.55	7.28	V	Pass

<High Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1688	-51.18	-13	-38.18	-57.54	-52.81	1.00	4.77	H	Pass
2536	-31.13	-13	-18.13	-42.04	-33.11	1.30	5.43	H	Pass
3376	-48.43	-13	-35.43	-59.7	-52.17	1.57	7.45	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1688	-52.44	-13	-39.44	-60.65	-54.07	1.00	4.77	V	Pass
2528	-33.31	-13	-20.31	-44.85	-35.28	1.30	5.42	V	Pass
3376	-37.51	-13	-24.51	-50.66	-41.25	1.57	7.45	V	Pass

<Low Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-47.15	-13	-34.15	-53.09	-48.91	0.98	4.89	H	Pass
2480	-55.37	-13	-42.37	-66.23	-57.28	1.28	5.34	H	Pass
3296	-48.92	-13	-35.92	-60.12	-52.33	1.54	7.10	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1648	-48.35	-13	-35.35	-57.08	-50.11	0.98	4.89	V	Pass
2472	-42.08	-13	-29.08	-52.69	-43.96	1.28	5.32	V	Pass
3296	-39.86	-13	-26.86	-53.35	-43.27	1.54	7.10	V	Pass

<Middle Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1664	-54.87	-13	-41.87	-61.2	-56.58	0.98	4.84	H	Pass
2496	-41.26	-13	-28.26	-52.27	-43.21	1.29	5.39	H	Pass
3328	-49.95	-13	-36.95	-61.55	-53.49	1.55	7.24	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1664	-53.57	-13	-40.57	-61.87	-55.28	0.98	4.84	V	Pass
2496	-39.01	-13	-26.01	-49.74	-40.96	1.29	5.39	V	Pass
3328	-41.17	-13	-28.17	-53.86	-44.71	1.55	7.24	V	Pass

<High Channel>

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1680	-48.21	-13	-35.21	-54.53	-49.86	0.99	4.80	H	Pass
2520	-33.25	-13	-20.25	-44.29	-35.22	1.30	5.42	H	Pass
3360	-49.61	-13	-36.61	-61.41	-53.28	1.56	7.38	H	Pass

Band :	LTE Band 5	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1680	-50.35	-13	-37.35	-59.11	-52	0.99	4.80	V	Pass
2520	-39.06	-13	-26.06	-49.85	-41.03	1.30	5.42	V	Pass
3360	-41.54	-13	-28.54	-54.39	-45.21	1.56	7.38	V	Pass

<Low Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-32.93	-13	-19.93	-48.31	-39.5	1.67	8.24	H	Pass
5548	-34.63	-13	-21.63	-55.25	-41.7	2.65	9.72	H	Pass
7403	-39.95	-13	-26.95	-67.31	-49.1	2.46	11.61	H	Pass
9251	-38.64	-13	-25.64	-64.95	-48.7	2.54	12.60	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-39.43	-13	-26.43	-55.84	-46	1.67	8.24	V	Pass
5548	-40.13	-13	-27.13	-60.21	-47.2	2.65	9.72	V	Pass
7403	-35.55	-13	-22.55	-62.91	-44.7	2.46	11.61	V	Pass
9251	-41.24	-13	-28.24	-67.25	-51.3	2.54	12.60	V	Pass

<Middle Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-24.48	-13	-11.48	-40.23	-31.1	1.68	8.31	H	Pass
5639	-41.85	-13	-28.85	-62.64	-48.9	2.71	9.76	H	Pass
7515	-37.82	-13	-24.82	-65.44	-47.2	2.42	11.81	H	Pass
9398	-38.53	-13	-25.53	-65.46	-48.5	2.57	12.54	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-31.68	-13	-18.68	-48.07	-38.3	1.68	8.31	V	Pass
5639	-42.15	-13	-29.15	-63.12	-49.2	2.71	9.76	V	Pass
7515	-34.92	-13	-21.92	-62.45	-44.3	2.42	11.81	V	Pass
9398	-39.03	-13	-26.03	-65.42	-49	2.57	12.54	V	Pass

<High Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3819	-22.57	-13	-9.57	-38.18	-27.1	1.70	8.38	H	Pass
5723	-32.61	-13	-19.61	-53.95	-37.5	2.75	9.79	H	Pass
7634	-41.56	-13	-28.56	-68.27	-48.9	2.39	11.88	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3819	-29.57	-13	-16.57	-46.21	-34.1	1.70	8.38	V	Pass
5723	-34.01	-13	-21.01	-55.43	-38.9	2.75	9.79	V	Pass
7634	-38.16	-13	-25.16	-64.51	-45.5	2.39	11.88	V	Pass

<Low Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-32.63	-13	-19.63	-47.89	-39.2	1.67	8.24	H	Pass
5548	-37.63	-13	-24.63	-58.14	-44.7	2.65	9.72	H	Pass
7403	-41.05	-13	-28.05	-68.67	-50.2	2.46	11.61	H	Pass
9251	-37.54	-13	-24.54	-64.04	-47.6	2.54	12.60	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-39.23	-13	-26.23	-55.73	-45.8	1.67	8.24	V	Pass
5548	-43.33	-13	-30.33	-63.55	-50.4	2.65	9.72	V	Pass
7403	-39.55	-13	-26.55	-66.54	-48.7	2.46	11.61	V	Pass
9251	-41.44	-13	-28.44	-67.64	-51.5	2.54	12.60	V	Pass

<Middle Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-24.18	-13	-11.18	-39.65	-30.8	1.68	8.31	H	Pass
5639	-41.45	-13	-28.45	-62.42	-48.5	2.71	9.76	H	Pass
7515	-40.22	-13	-27.22	-67.92	-49.6	2.42	11.81	H	Pass
9391	-38.92	-13	-25.92	-65.65	-48.9	2.57	12.54	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-30.08	-13	-17.08	-46.57	-36.7	1.68	8.31	V	Pass
5639	-42.95	-13	-29.95	-63.48	-50	2.71	9.76	V	Pass
7515	-35.72	-13	-22.72	-62.81	-45.1	2.42	11.81	V	Pass
9391	-38.62	-13	-25.62	-65.2	-48.6	2.57	12.54	V	Pass

<High Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3812	-22.58	-13	-9.58	-38.27	-27.1	1.70	8.37	H	Pass
5723	-36.01	-13	-23.01	-57.47	-40.9	2.75	9.79	H	Pass
7627	-41.16	-13	-28.16	-67.53	-48.5	2.39	11.88	H	Pass
9538	-40.37	-13	-27.37	-67.09	-48.1	2.60	12.48	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3812	-29.68	-13	-16.68	-46.38	-34.2	1.70	8.37	V	Pass
5723	-39.81	-13	-26.81	-60.71	-44.7	2.75	9.79	V	Pass
7627	-37.86	-13	-24.86	-64.04	-45.2	2.39	11.88	V	Pass
9538	-39.07	-13	-26.07	-65.77	-46.8	2.60	12.48	V	Pass

<Low Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-33.43	-13	-20.43	-48.55	-40	1.67	8.24	H	Pass
5548	-36.93	-13	-23.93	-57.78	-44	2.65	9.72	H	Pass
7403	-41.65	-13	-28.65	-69.22	-50.8	2.46	11.61	H	Pass
9251	-38.24	-13	-25.24	-64.63	-48.3	2.54	12.60	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-39.33	-13	-26.33	-55.38	-45.9	1.67	8.24	V	Pass
5548	-40.23	-13	-27.23	-60.47	-47.3	2.65	9.72	V	Pass
7403	-38.35	-13	-25.35	-65.32	-47.5	2.46	11.61	V	Pass
9251	-41.14	-13	-28.14	-67.18	-51.2	2.54	12.60	V	Pass

<Middle Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-25.38	-13	-12.38	-40.69	-32	1.68	8.31	H	Pass
5632	-41.65	-13	-28.65	-62.35	-48.7	2.70	9.75	H	Pass
7508	-40.12	-13	-27.12	-67.47	-49.5	2.43	11.80	H	Pass
9391	-39.02	-13	-26.02	-65.59	-49	2.57	12.54	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-30.38	-13	-17.38	-46.66	-37	1.68	8.31	V	Pass
5632	-37.95	-13	-24.95	-64.09	-45	2.70	9.75	V	Pass
7508	-34.82	-13	-21.82	-62.15	-44.2	2.43	11.80	V	Pass
9391	-40.12	-13	-27.12	-66.56	-50.1	2.57	12.54	V	Pass

<High Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3812	-22.88	-13	-9.88	-38.45	-27.4	1.70	8.37	H	Pass
5716	-41.01	-13	-28.01	-62.28	-45.9	2.75	9.79	H	Pass
7620	-41.17	-13	-28.17	-67.84	-48.5	2.39	11.87	H	Pass
9524	-38.66	-13	-25.66	-65.59	-46.4	2.59	12.49	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3812	-22.78	-13	-9.78	-38.45	-27.3	1.70	8.37	V	Pass
5716	-41.01	-13	-28.01	-62.28	-45.9	2.75	9.79	V	Pass
7620	-40.87	-13	-27.87	-67.84	-48.2	2.39	11.87	V	Pass
9524	-38.96	-13	-25.96	-65.59	-46.7	2.59	12.49	V	Pass

<Low Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-32.53	-13	-19.53	-47.8	-39.1	1.67	8.24	H	Pass
5548	-35.43	-13	-22.43	-55.91	-42.5	2.65	9.72	H	Pass
7403	-42.05	-13	-29.05	-69.43	-51.2	2.46	11.61	H	Pass
9251	-38.44	-13	-25.44	-64.83	-48.5	2.54	12.60	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-39.63	-13	-26.63	-55.9	-46.2	1.67	8.24	V	Pass
5548	-42.53	-13	-29.53	-62.58	-49.6	2.65	9.72	V	Pass
7403	-36.95	-13	-23.95	-64.08	-46.1	2.46	11.61	V	Pass
9251	-40.44	-13	-27.44	-66.66	-50.5	2.54	12.60	V	Pass

<Middle Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3749	-25.48	-13	-12.48	-40.89	-32.1	1.68	8.30	H	Pass
5625	-42.15	-13	-29.15	-63.04	-49.2	2.70	9.75	H	Pass
7501	-39.73	-13	-26.73	-67.44	-49.1	2.43	11.80	H	Pass
9377	-38.91	-13	-25.91	-65.71	-48.9	2.56	12.55	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3749	-32.38	-13	-19.38	-48.78	-39	1.68	8.30	V	Pass
5625	-44.15	-13	-31.15	-64.54	-51.2	2.70	9.75	V	Pass
7501	-34.73	-13	-21.73	-62.19	-44.1	2.43	11.80	V	Pass
9377	-39.51	-13	-26.51	-66.07	-49.5	2.56	12.55	V	Pass

<High Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3798	-27.19	-13	-14.19	-42.76	-31.7	1.70	8.36	H	Pass
5702	-38.91	-13	-25.91	-60.09	-43.8	2.74	9.78	H	Pass
7599	-43.19	-13	-30.19	-70.21	-50.5	2.40	11.86	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3798	-33.69	-13	-20.69	-50.26	-38.2	1.70	8.36	V	Pass
5702	-40.21	-13	-27.21	-61.17	-45.1	2.74	9.78	V	Pass
7599	-41.19	-13	-28.19	-67.79	-48.5	2.40	11.86	V	Pass

<Low Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-33.53	-13	-20.53	-48.58	-40.1	1.67	8.24	H	Pass
5555	-37.53	-13	-24.53	-58.12	-44.6	2.66	9.72	H	Pass
7403	-41.65	-13	-28.65	-68.98	-50.8	2.46	11.61	H	Pass
9251	-38.44	-13	-25.44	-64.87	-48.5	2.54	12.60	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-39.33	-13	-26.33	-55.37	-45.9	1.67	8.24	V	Pass
5555	-39.53	-13	-26.53	-59.88	-46.6	2.66	9.72	V	Pass
7403	-37.05	-13	-24.05	-64.16	-46.2	2.46	11.61	V	Pass
9251	-40.84	-13	-27.84	-67.05	-50.9	2.54	12.60	V	Pass

<Middle Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3749	-26.48	-13	-13.48	-41.56	-33.1	1.68	8.30	H	Pass
5618	-42.65	-13	-29.65	-63.58	-49.7	2.69	9.75	H	Pass
7494	-38.44	-13	-25.44	-65.82	-47.8	2.43	11.79	H	Pass
9370	-39.21	-13	-26.21	-66.06	-49.2	2.56	12.55	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3749	-32.28	-13	-19.28	-48.52	-38.9	1.68	8.30	V	Pass
5618	-44.65	-13	-31.65	-65.19	-51.7	2.69	9.75	V	Pass
7494	-35.44	-13	-22.44	-62.7	-44.8	2.43	11.79	V	Pass
9370	-39.51	-13	-26.51	-66.15	-49.5	2.56	12.55	V	Pass

<High Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3791	-31.90	-13	-18.90	-47.43	-36.4	1.70	8.35	H	Pass
5688	-35.41	-13	-22.41	-56.61	-40.3	2.73	9.78	H	Pass
7585	-41.90	-13	-28.90	-68.97	-49.2	2.40	11.85	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3791	-38.40	-13	-25.40	-54.68	-42.9	1.70	8.35	V	Pass
5688	-39.21	-13	-26.21	-60.17	-44.1	2.73	9.78	V	Pass
7585	-38.90	-13	-25.90	-65.55	-46.2	2.40	11.85	V	Pass

<Low Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-32.93	-13	-19.93	-48.3	-39.5	1.67	8.24	H	Pass
5555	-35.33	-13	-22.33	-55.76	-42.4	2.66	9.72	H	Pass
7403	-41.65	-13	-28.65	-69.12	-50.8	2.46	11.61	H	Pass
9258	-37.04	-13	-24.04	-63.44	-47.1	2.54	12.60	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3700	-39.93	-13	-26.93	-56.13	-46.5	1.67	8.24	V	Pass
5555	-40.33	-13	-27.33	-60.82	-47.4	2.66	9.72	V	Pass
7403	-37.75	-13	-24.75	-64.79	-46.9	2.46	11.61	V	Pass
9258	-41.94	-13	-28.94	-68.04	-52	2.54	12.60	V	Pass

<Middle Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3742	-26.09	-13	-13.09	-41.42	-32.7	1.68	8.29	H	Pass
5611	-43.24	-13	-30.24	-64.15	-50.3	2.69	9.74	H	Pass
7487	-38.46	-13	-25.46	-66.03	-47.8	2.43	11.77	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3742	-33.29	-13	-20.29	-49.52	-39.9	1.68	8.29	V	Pass
5611	-45.34	-13	-32.34	-65.88	-52.4	2.69	9.74	V	Pass
7487	-34.36	-13	-21.36	-61.31	-43.7	2.43	11.77	V	Pass

<High Channel>

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3784	-26.80	-13	-13.80	-42.49	-31.3	1.69	8.34	H	Pass
5674	-35.61	-13	-22.61	-56.72	-40.5	2.73	9.77	H	Pass
7564	-42.42	-13	-29.42	-69.52	-49.7	2.41	11.84	H	Pass
9454	-40.81	-13	-27.81	-67.48	-48.6	2.58	12.52	H	Pass

Band :	LTE Band 2	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3784	-34.10	-13	-21.10	-50.78	-38.6	1.69	8.34	V	Pass
5674	-37.21	-13	-24.21	-57.95	-42.1	2.73	9.77	V	Pass
7564	-40.22	-13	-27.22	-67.37	-47.5	2.41	11.84	V	Pass
9454	-41.31	-13	-28.31	-67.87	-49.1	2.58	12.52	V	Pass

<Low Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-31.33	-13	-18.33	-46.06	-37.4	1.58	7.65	H	Pass
5128	-42.31	-13	-29.31	-60.8	-49.6	2.41	9.70	H	Pass
6843	-42.53	-13	-29.53	-68.41	-50.5	2.64	10.61	H	Pass
8551	-39.57	-13	-26.57	-64.91	-49.7	2.39	12.52	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-37.23	-13	-24.23	-53.23	-43.3	1.58	7.65	V	Pass
5128	-47.51	-13	-34.51	-66.21	-54.8	2.41	9.70	V	Pass
6843	-36.13	-13	-23.13	-61.42	-44.1	2.64	10.61	V	Pass
8551	-37.87	-13	-24.87	-63.16	-48	2.39	12.52	V	Pass

<Middle Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-36.36	-13	-23.36	-50.72	-42.6	1.59	7.83	H	Pass
5198	-33.85	-13	-20.85	-52.77	-41.1	2.45	9.70	H	Pass
6927	-43.30	-13	-30.30	-69.38	-51.4	2.61	10.71	H	Pass
8663	-38.75	-13	-25.75	-64.47	-48.9	2.41	12.57	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-40.86	-13	-27.86	-56.57	-47.1	1.59	7.83	V	Pass
5198	-41.55	-13	-28.55	-60.46	-48.8	2.45	9.70	V	Pass
6924	-39.01	-13	-26.01	-64.68	-47.1	2.62	10.71	V	Pass
8663	-35.35	-13	-22.35	-61.11	-45.5	2.41	12.57	V	Pass

<High Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3504	-34.75	-13	-21.75	-49.11	-39	1.61	8.00	H	Pass
5261	-39.14	-13	-26.14	-58.22	-44.2	2.49	9.70	H	Pass
7018	-39.80	-13	-26.80	-66.85	-45.9	2.58	10.84	H	Pass
8768	-40.28	-13	-27.28	-66.2	-48.3	2.43	12.61	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3504	-39.35	-13	-26.35	-55.01	-43.6	1.61	8.00	V	Pass
5261	-45.64	-13	-32.64	-64.78	-50.7	2.49	9.70	V	Pass
7018	-36.90	-13	-23.90	-62.64	-43	2.58	10.84	V	Pass
8768	-41.28	-13	-28.28	-66.65	-49.3	2.43	12.61	V	Pass

<Low Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-32.13	-13	-19.13	-46.38	-38.2	1.58	7.65	H	Pass
5128	-41.81	-13	-28.81	-60.58	-49.1	2.41	9.70	H	Pass
6843	-41.13	-13	-28.13	-67.24	-49.1	2.64	10.61	H	Pass
8551	-37.87	-13	-24.87	-63.47	-48	2.39	12.52	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-38.73	-13	-25.73	-54.3	-44.8	1.58	7.65	V	Pass
5128	-47.51	-13	-34.51	-66.54	-54.8	2.41	9.70	V	Pass
6843	-36.33	-13	-23.33	-61.59	-44.3	2.64	10.61	V	Pass
8551	-38.07	-13	-25.07	-63.46	-48.2	2.39	12.52	V	Pass

<Middle Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-36.86	-13	-23.86	-51.26	-43.1	1.59	7.83	H	Pass
5191	-33.85	-13	-20.85	-52.69	-41.1	2.45	9.70	H	Pass
6927	-41.50	-13	-28.50	-67.69	-49.6	2.61	10.71	H	Pass
8656	-38.25	-13	-25.25	-63.92	-48.4	2.41	12.56	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-42.26	-13	-29.26	-57.77	-48.5	1.59	7.83	V	Pass
5191	-42.95	-13	-29.95	-61.84	-50.2	2.45	9.70	V	Pass
6927	-36.50	-13	-23.50	-62.1	-44.6	2.61	10.71	V	Pass
8656	-36.45	-13	-23.45	-61.86	-46.6	2.41	12.56	V	Pass

<High Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3504	-33.75	-13	-20.75	-48.17	-38	1.61	8.00	H	Pass
5254	-41.43	-13	-28.43	-60.99	-46.5	2.48	9.70	H	Pass
7011	-42.51	-13	-29.51	-68.96	-48.6	2.59	10.82	H	Pass
8761	-40.28	-13	-27.28	-66.09	-48.3	2.43	12.60	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3504	-39.55	-13	-26.55	-55.23	-43.8	1.61	8.00	V	Pass
5254	-49.23	-13	-36.23	-68.63	-54.3	2.48	9.70	V	Pass
7011	-35.01	-13	-22.01	-60.87	-41.1	2.59	10.82	V	Pass
8761	-40.18	-13	-27.18	-65.75	-48.2	2.43	12.60	V	Pass

<Low Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-31.53	-13	-18.53	-45.96	-37.6	1.58	7.65	H	Pass
5128	-41.21	-13	-28.21	-60.16	-48.5	2.41	9.70	H	Pass
6843	-41.73	-13	-28.73	-67.66	-49.7	2.64	10.61	H	Pass
8551	-38.17	-13	-25.17	-63.65	-48.3	2.39	12.52	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-39.03	-13	-26.03	-54.73	-45.1	1.58	7.65	V	Pass
5128	-47.51	-13	-34.51	-66.28	-54.8	2.41	9.70	V	Pass
6843	-37.13	-13	-24.13	-62.31	-45.1	2.64	10.61	V	Pass
8551	-38.07	-13	-25.07	-63.5	-48.2	2.39	12.52	V	Pass

<Middle Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-39.06	-13	-26.06	-53.32	-45.3	1.59	7.83	H	Pass
5191	-33.15	-13	-20.15	-51.81	-40.4	2.45	9.70	H	Pass
6920	-42.61	-13	-29.61	-68.92	-50.7	2.62	10.70	H	Pass
8649	-39.45	-13	-26.45	-64.95	-49.6	2.41	12.56	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3462	-43.46	-13	-30.46	-58.94	-49.7	1.59	7.83	V	Pass
5191	-41.95	-13	-28.95	60.94	-49.2	2.45	9.70	V	Pass
6920	-36.91	-13	-23.91	-62.19	-45	2.62	10.70	V	Pass
8649	-40.15	-13	-27.15	-65.69	-50.3	2.41	12.56	V	Pass

<High Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3497	-32.87	-13	-19.87	-47.3	-37.1	1.60	7.99	H	Pass
5247	-43.73	-13	-30.73	-62.76	-48.8	2.48	9.70	H	Pass
7004	-42.13	-13	-29.13	-68.89	-48.2	2.59	10.81	H	Pass
8754	-41.18	-13	-28.18	-66.89	-49.2	2.43	12.60	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3497	-37.87	-13	-24.87	-53.46	-42.1	1.60	7.99	V	Pass
5254	-47.93	-13	-34.93	-66.78	-53	2.48	9.70	V	Pass
7004	-34.63	-13	-21.63	-60.7	-40.7	2.59	10.81	V	Pass
8754	-39.68	-13	-26.68	-65.27	-47.7	2.43	12.60	V	Pass

<Low Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-32.13	-13	-19.13	-46.45	-38.2	1.58	7.65	H	Pass
5128	-42.01	-13	-29.01	-60.6	-49.3	2.41	9.70	H	Pass
6843	-40.23	-13	-27.23	-66.11	-48.2	2.64	10.61	H	Pass
8551	-39.07	-13	-26.07	-64.65	-49.2	2.39	12.52	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-38.13	-13	-25.13	-54.17	-44.2	1.58	7.65	V	Pass
5128	-48.21	-13	-35.21	-66.76	-55.5	2.41	9.70	V	Pass
6843	-37.23	-13	-24.23	-62.47	-45.2	2.64	10.61	V	Pass
8551	-39.27	-13	-26.27	-64.75	-49.4	2.39	12.52	V	Pass

<Middle Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3455	-40.89	-13	-27.89	-55.26	-47.1	1.59	7.80	H	Pass
5184	-32.54	-13	-19.54	-51.3	-39.8	2.44	9.70	H	Pass
6913	-42.82	-13	-29.82	-69.04	-50.9	2.62	10.70	H	Pass
8642	-39.15	-13	-26.15	-64.82	-49.3	2.41	12.56	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3455	-46.19	-13	-33.19	-61.64	-52.4	1.59	7.80	V	Pass
5184	-42.44	-13	-29.44	-61.4	-49.7	2.44	9.70	V	Pass
6913	-37.92	-13	-24.92	-63.36	-46	2.62	10.70	V	Pass
8642	-40.95	-13	-27.95	-66.79	-51.1	2.41	12.56	V	Pass

<HIgh Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3490	-32.80	-13	-19.80	-47.28	-37	1.60	7.96	H	Pass
5233	-41.12	-13	-28.12	-60.12	-46.2	2.47	9.70	H	Pass
6983	-39.27	-13	-26.27	-65.59	-45.3	2.60	10.78	H	Pass
8726	-40.78	-13	-27.78	-66.49	-48.8	2.42	12.59	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3490	-38.30	-13	-25.30	-54.18	-42.5	1.60	7.96	V	Pass
5240	-47.33	-13	-34.33	-66.17	-52.4	2.48	9.70	V	Pass
6983	-35.17	-13	-22.17	-60.9	-41.2	2.60	10.78	V	Pass
8726	-39.18	-13	-26.18	-65.12	-47.2	2.42	12.59	V	Pass

<Low Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-31.37	-13	-18.37	-46	-37.44	1.58	7.65	H	Pass
5135	-43.10	-13	-30.10	-62.23	-50.39	2.41	9.70	H	Pass
6843	-41.30	-13	-28.30	-66.75	-49.27	2.64	10.61	H	Pass
8551	-34.16	-13	-21.16	-60.34	-44.29	2.39	12.52	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-39.32	-13	-26.32	-54.84	-45.39	1.58	7.65	V	Pass
5135	-47.12	-13	-34.12	-65.75	-54.41	2.41	9.70	V	Pass
6843	-33.75	-13	-20.75	-58.24	-41.72	2.64	10.61	V	Pass
8551	-39.98	-13	-26.98	-64.95	-50.11	2.39	12.52	V	Pass

<Middle Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3448	-43.95	-13	-30.95	-57.71	-50.13	1.59	7.77	H	Pass
5177	-35.01	-13	-22.01	-54.64	-42.27	2.44	9.70	H	Pass
6906	-42.15	-13	-29.15	-68.85	-50.22	2.62	10.69	H	Pass
8628	-38.19	-13	-25.19	-63.87	-48.34	2.40	12.55	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3448	-48.50	-13	-35.50	-64.49	-54.68	1.59	7.77	V	Pass
5177	-40.46	-13	-27.46	-59.07	-47.72	2.44	9.70	V	Pass
6906	-33.92	-13	-20.92	-59.05	-41.99	2.62	10.69	V	Pass
8628	-41.04	-13	-28.04	-67.05	-51.19	2.40	12.55	V	Pass

<High Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3483	-30.93	-13	-17.93	-45.11	-35.11	1.60	7.93	H	Pass
5219	-44.08	-13	-31.08	-63.07	-49.17	2.46	9.70	H	Pass
6969	-42.32	-13	-29.32	-68.6	-48.33	2.60	10.76	H	Pass
8705	-38.22	-13	-25.22	-64.6	-46.23	2.42	12.58	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3483	-36.68	-13	-23.68	-52.52	-40.86	1.60	7.93	V	Pass
5219	-44.24	-13	-31.24	-63.28	-49.33	2.46	9.70	V	Pass
6962	-35.58	-13	-22.58	-61.36	-41.58	2.60	10.75	V	Pass
8705	-40.96	-13	-27.96	-66.26	-48.97	2.42	12.58	V	Pass

<Low Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-32.39	-13	-19.39	-47.01	-38.46	1.58	7.65	H	Pass
5135	-44.70	-13	-31.70	-62.95	-51.99	2.41	9.70	H	Pass
6840	-42.75	-13	-29.75	-68.27	-50.72	2.64	10.61	H	Pass
8558	-36.49	-13	-23.49	-61.87	-46.63	2.39	12.52	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3420	-37.25	-13	-24.25	-53.44	-43.32	1.58	7.65	V	Pass
5135	-47.18	-13	-34.18	-66.32	-54.47	2.41	9.70	V	Pass
6843	-34.71	-13	-21.71	-59.71	-42.68	2.64	10.61	V	Pass
8558	-39.97	-13	-26.97	-64.5	-50.11	2.39	12.52	V	Pass

<Middle Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3448	-40.44	-13	-27.44	-55.21	-46.62	1.59	7.77	H	Pass
5170	-35.28	-13	-22.28	-54.14	-42.55	2.43	9.70	H	Pass
6899	-42.17	-13	-29.17	-68.27	-50.23	2.62	10.68	H	Pass
8621	-39.89	-13	-26.89	-64.86	-50.04	2.40	12.55	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3448	-47.91	-13	-34.91	-63.05	-54.09	1.59	7.77	V	Pass
5170	-40.71	-13	-27.71	-58.9	-47.98	2.43	9.70	V	Pass
6892	-38.62	-13	-25.62	-63.69	-46.67	2.63	10.67	V	Pass
8621	-44.03	-13	-31.03	-69.49	-54.18	2.40	12.55	V	Pass

<High Channel>

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3472	-33.82	-13	-20.82	-48.16	-37.95	1.60	7.88	H	Pass
5208	-36.74	-13	-23.74	-55.63	-41.83	2.46	9.70	H	Pass
6948	-39.83	-13	-26.83	-66.09	-45.81	2.61	10.74	H	Pass
8680	-36.49	-13	-23.49	-62.09	-44.5	2.41	12.57	H	Pass

Band :	LTE Band 4	**Temperature :**	23~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3472	-39.21	-13	-26.21	-54.76	-43.34	1.60	7.88	V	Pass
5208	-39.12	-13	-26.12	-58.05	-44.21	2.46	9.70	V	Pass
6948	-34.64	-13	-21.64	-60.06	-40.62	2.61	10.74	V	Pass
8680	-38.34	-13	-25.34	-63.69	-46.35	2.41	12.57	V	Pass

<Low Channel>

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1408	-47.51	-13	-34.51	-53.54	-49.22	0.87	4.73	H	Pass
2112	-50.31	-13	-37.31	-59.25	-51.23	1.17	4.24	H	Pass
2816	-37.08	-13	-24.08	-48.28	-39.19	1.39	5.65	H	Pass
3520	-48.18	-13	-35.18	-60.41	-52.44	1.61	8.02	H	Pass

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1408	-45.40	-13	-32.40	-53.64	-47.11	0.87	4.73	V	Pass
2112	-46.23	-13	-33.23	-57.17	-47.15	1.17	4.24	V	Pass
2816	-26.25	-13	-13.25	-39.04	-28.36	1.39	5.65	V	Pass
3520	-50.75	-13	-37.75	-64.16	-55.01	1.61	8.02	V	Pass

<Middle Channel>

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1416	-48.87	-13	-35.87	-54.94	-50.62	0.87	4.78	H	Pass
2120	-48.70	-13	-35.70	-57.75	-49.64	1.17	4.26	H	Pass
2832	-37.16	-13	-24.16	-48.43	-39.28	1.39	5.67	H	Pass
3536	-50.46	-13	-37.46	-62.88	-54.74	1.62	8.04	H	Pass

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1416	-47.30	-13	-34.30	-55.55	-49.05	0.87	4.78	V	Pass
2120	-42.63	-13	-29.63	-53.53	-43.57	1.17	4.26	V	Pass
2832	-26.62	-13	-13.62	-39.4	-28.74	1.39	5.67	V	Pass
3536	-52.70	-13	-39.70	-66.08	-56.98	1.62	8.04	V	Pass

<High Channel>

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1424	-48.76	-13	-35.76	-54.68	-50.56	0.88	4.83	H	Pass
2136	-49.91	-13	-36.91	-59.15	-50.89	1.18	4.31	H	Pass
2848	-43.92	-13	-30.92	-55.12	-46.05	1.40	5.68	H	Pass
3560	-52.86	-13	-39.86	-65.33	-57.16	1.62	8.07	H	Pass

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1424	-45.12	-13	-32.12	-53.3	-46.92	0.88	4.83	V	Pass
2136	-42.87	-13	-29.87	-53.88	-43.85	1.18	4.31	V	Pass
2848	-32.64	-13	-19.64	-45.72	-34.77	1.40	5.68	V	Pass
3560	-54.13	-13	-41.13	-67.71	-58.43	1.62	8.07	V	Pass

<Low Channel>

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1408	-46.83	-13	-33.83	-52.82	-48.54	0.87	4.73	H	Pass
2112	-49.67	-13	-36.67	-58.65	-50.59	1.17	4.24	H	Pass
2816	-36.52	-13	-23.52	-47.81	-38.63	1.39	5.65	H	Pass
3520	-48.74	-13	-35.74	-60.99	-53	1.61	8.02	H	Pass

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1408	-44.95	-13	-31.95	-53.16	-46.66	0.87	4.73	V	Pass
2112	-44.78	-13	-31.78	-55.63	-45.7	1.17	4.24	V	Pass
2816	-26.36	-13	-13.36	-39.1	-28.47	1.39	5.65	V	Pass
3520	-51.48	-13	-38.48	-64.68	-55.74	1.61	8.02	V	Pass

<Middle Channel>

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1408	-47.98	-13	-34.98	-53.99	-49.69	0.87	4.73	H	Pass
2120	-46.48	-13	-33.48	-55.49	-47.42	1.17	4.26	H	Pass
2824	-36.56	-13	-23.56	-47.61	-38.68	1.39	5.66	H	Pass
3528	-48.55	-13	-35.55	-60.9	-52.82	1.61	8.03	H	Pass

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1408	-45.29	-13	-32.29	-53.38	-47	0.87	4.73	V	Pass
2112	-44.89	-13	-31.89	-55.74	-45.81	1.17	4.24	V	Pass
2824	-24.91	-13	-11.91	-37.66	-27.03	1.39	5.66	V	Pass
3528	-50.38	-13	-37.38	-63.96	-54.65	1.61	8.03	V	Pass

<High Channel>

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1416	-47.75	-13	-34.75	-53.79	-49.5	0.87	4.78	H	Pass
2120	-45.32	-13	-32.32	-54.33	-46.26	1.17	4.26	H	Pass
2824	-38.56	-13	-25.56	-49.75	-40.68	1.39	5.66	H	Pass
3536	-47.07	-13	-34.07	-61.69	-51.35	1.62	8.04	H	Pass

Band :	LTE Band 17	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1416	-46.13	-13	-33.13	-54.32	-47.88	0.87	4.78	V	Pass
2120	-44.82	-13	-31.82	-55.72	-45.76	1.17	4.26	V	Pass
2824	-25.98	-13	-12.98	-38.78	-28.1	1.39	5.66	V	Pass
3536	-49.83	-13	-36.83	-63.35	-54.11	1.62	8.04	V	Pass

<Low Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4998	-38.52	-25	-13.52	-56.37	-45.88	2.34	9.70	H	Pass
7500	-35.07	-25	-10.07	-62.61	-44.44	2.43	11.80	H	Pass
10002	-36.08	-25	-11.08	-64.84	-45.58	2.70	12.20	H	Pass
12504	-28.19	-25	-3.19	-60.28	-37.79	2.81	12.40	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4998	-44.38	-25	-19.38	-62.35	-51.74	2.34	9.70	V	Pass
7500	-38.96	-25	-13.96	-66.2	-48.33	2.43	11.80	V	Pass
10002	-37.89	-25	-12.89	-65.72	-47.39	2.70	12.20	V	Pass
12504	-34.40	-25	-9.40	-65.25	-44	2.81	12.40	V	Pass

<Middle Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5064	-43.13	-25	-18.13	-61.22	-50.46	2.37	9.70	H	Pass
7596	-37.08	-25	-12.08	-63.76	-46.54	2.40	11.86	H	Pass
10128	-34.55	-25	-9.55	-63.56	-44.11	2.70	12.25	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5064	-48.54	-25	-23.54	-66.83	-55.87	2.37	9.70	V	Pass
7596	-39.50	-25	-14.50	-66.03	-48.96	2.40	11.86	V	Pass
10134	-38.13	-25	-13.13	-66.02	-47.69	2.70	12.25	V	Pass

<High Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5130	-40.90	-25	-15.90	-59.36	-48.19	2.41	9.70	H	Pass
7698	-36.33	-25	-11.33	-62.27	-45.88	2.37	11.92	H	Pass
10260	-36.60	-25	-11.60	-65.68	-46.21	2.69	12.30	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	5MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5130	-47.22	-25	-22.22	-65.88	-54.51	2.41	9.70	V	Pass
7698	-40.47	-25	-15.47	-66.19	-50.02	2.37	11.92	V	Pass
10260	-40.00	-25	-15.00	-68.05	-49.61	2.69	12.30	V	Pass

<Low Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4998	-37.66	-25	-12.66	-55.42	-45.02	2.34	9.70	H	Pass
7500	-34.18	-25	-9.18	-61.66	-43.55	2.43	11.80	H	Pass
10002	-36.00	-25	-11.00	-64.72	-45.5	2.70	12.20	H	Pass
12504	-28.66	-25	-3.66	-61.32	-38.26	2.81	12.40	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
4998	-43.83	-25	-18.83	-61.79	-51.19	2.34	9.70	V	Pass
7500	-36.85	-25	-11.85	-64.24	-46.22	2.43	11.80	V	Pass
10002	-38.55	-25	-13.55	-66.29	-48.05	2.70	12.20	V	Pass
12504	-35.48	-25	-10.48	-66.42	-45.08	2.81	12.40	V	Pass

<Middle Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5058	-44.69	-25	-19.69	-62.84	-52.02	2.37	9.70	H	Pass
7590	-35.20	-25	-10.20	-61.84	-44.65	2.40	11.85	H	Pass
10122	-34.44	-25	-9.44	-63.18	-43.99	2.70	12.25	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5058	-47.55	-25	-22.55	-65.67	-54.88	2.37	9.70	V	Pass
7590	-40.60	-25	-15.60	-67.14	-50.05	2.40	11.85	V	Pass
10122	-37.90	-25	-12.90	-65.71	-47.45	2.70	12.25	V	Pass

<High Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5118	-41.55	-25	-16.55	-59.91	-48.85	2.40	9.70	H	Pass
7680	-35.87	-25	-10.87	-61.97	-45.41	2.37	11.91	H	Pass
10242	-31.80	-25	-6.80	-60.83	-41.4	2.69	12.30	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	10MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5118	-44.75	-25	-19.75	-63.23	-52.05	2.40	9.70	V	Pass
7680	-35.05	-25	-10.05	-60.91	-44.59	2.37	11.91	V	Pass
10242	-36.18	-25	-11.18	-64.17	-45.78	2.69	12.30	V	Pass

<Low Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	15MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5004	-37.12	-25	-12.12	-54.97	-44.48	2.34	9.70	H	Pass
7500	-35.26	-25	-10.26	-62.79	-44.63	2.43	11.80	H	Pass
10002	-36.82	-25	-11.82	-65.6	-46.32	2.70	12.20	H	Pass
12504	-28.46	-25	-3.46	-61.14	-38.06	2.81	12.40	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	15MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5004	-43.78	-25	-18.78	-61.8	-51.14	2.34	9.70	V	Pass
7500	-38.18	-25	-13.18	-65.34	-47.55	2.43	11.80	V	Pass
10002	-38.08	-25	-13.08	-65.86	-47.58	2.70	12.20	V	Pass
12504	-34.44	-25	-9.44	-65.31	-44.04	2.81	12.40	V	Pass

<Middle Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	15MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5058	-45.14	-25	-20.14	-63.27	-52.47	2.37	9.70	H	Pass
7584	-35.71	-25	-10.71	-62.56	-45.16	2.40	11.85	H	Pass
10110	-33.45	-25	-8.45	-62.28	-43	2.70	12.24	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	15MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5058	-48.21	-25	-23.21	-66.41	-55.54	2.37	9.70	V	Pass
7584	-38.29	-25	-13.29	-65.05	-47.74	2.40	11.85	V	Pass
10110	-35.66	-25	-10.66	-63.61	-45.21	2.70	12.24	V	Pass

<High Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	15MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5112	-40.56	-25	-15.56	-58.95	-47.86	2.40	9.70	H	Pass
7668	-34.56	-25	-9.56	-60.79	-44.09	2.38	11.90	H	Pass
10224	-33.38	-25	-8.38	-62.34	-42.97	2.69	12.29	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	15MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5112	-42.18	-25	-17.18	-60.67	-49.48	2.40	9.70	V	Pass
7668	-36.02	-25	-11.02	-62.13	-45.55	2.38	11.90	V	Pass
10224	-35.80	-25	-10.80	-63.83	-45.39	2.69	12.29	V	Pass

<Low Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	20MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5004	-36.85	-25	-11.85	-54.74	-44.21	2.34	9.70	H	Pass
7500	-35.49	-25	-10.49	-63.01	-44.86	2.43	11.80	H	Pass
10002	-36.26	-25	-11.26	-64.97	-45.76	2.70	12.20	H	Pass
12504	-28.03	-25	-3.03	-60.71	-37.63	2.81	12.40	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	20MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5004	-43.90	-25	-18.90	-62.05	-51.26	2.34	9.70	V	Pass
7500	-39.82	-25	-14.82	-67.13	-49.19	2.43	11.80	V	Pass
10002	-37.96	-25	-12.96	-65.74	-47.46	2.70	12.20	V	Pass
12504	-34.41	-25	-9.41	-65.29	-44.01	2.81	12.40	V	Pass

<Middle Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	20MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5052	-41.39	-25	-16.39	-59.55	-48.72	2.37	9.70	H	Pass
7578	-33.61	-25	-8.61	-60.45	-43.05	2.40	11.85	H	Pass
10104	-32.27	-25	-7.27	-61.17	-41.82	2.70	12.24	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	20MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5052	-43.93	-25	-18.93	-62.14	-51.26	2.37	9.70	V	Pass
7578	-38.39	-25	-13.39	-64.98	-47.83	2.40	11.85	V	Pass
10104	-35.08	-25	-10.08	-63.01	-44.63	2.70	12.24	V	Pass

<High Channel>

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	20MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5100	-38.58	-25	-13.58	-56.79	-45.89	2.39	9.70	H	Pass
7650	-36.10	-25	-11.10	-62.45	-45.61	2.38	11.89	H	Pass
10206	-34.43	-25	-9.43	-63.33	-44.02	2.70	12.28	H	Pass

Band :	LTE Band 7	**Temperature :**	23~24°C
Test Mode :	20MHz 16QAM RB Size 1 Offset 0	**Relative Humidity :**	46~48%
Test Engineer :	Eric Shih	**Polarization :**	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
5100	-41.79	-25	-16.79	-60.24	-49.1	2.39	9.70	V	Pass
7656	-38.81	-25	-13.81	-64.93	-48.32	2.38	11.89	V	Pass
10206	-37.59	-25	-12.59	-65.67	-47.18	2.70	12.28	V	Pass

3.8 Frequency Stability Measurement

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

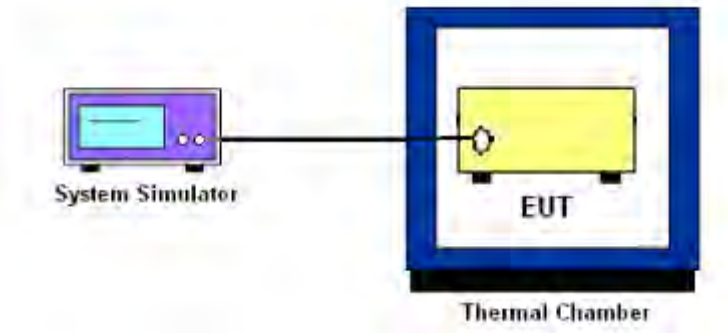
3.8.3 Test Procedures for Temperature Variation

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.4 Test Procedures for Voltage Variation

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

3.8.5 Test Setup



3.8.6 Test Result of Temperature Variation (FCC)

Band :	LTE Band 5 (QPSK)	Limit (ppm) :	2.5

Temperature (°C)	BW 10MHz	Result
	Deviation (ppm)	
50	0.0000	PASS
40	0.0000	
30	0.0012	
20(Ref.)	0.0000	
10	0.0000	
0	0.0000	
-10	0.0000	
-20	0.0012	
-30	0.0012	

Band :	LTE Band 2 (QPSK)	Limit (ppm) :	Note

Temperature (°C)	BW 10MHz	Result
	Deviation (ppm)	
50	0.0176	PASS
40	0.0021	
30	0.0011	
20(Ref.)	0.0000	
10	0.0011	
0	0.0000	
-10	0.0005	
-20	0.0011	
-30	0.0016	

Note: The frequency fundamental emissions stay within the authorized frequency block from the derivation based on the frequency deviations measured on the center channel are small.

Band :	LTE Band 4 (QPSK)	Limit (ppm) :	Note

Temperature (°C)	BW 10MHz	Result
	Deviation (ppm)	
50	0.0012	PASS
40	0.0000	
30	0.0000	
20(Ref.)	0.0000	
10	0.0000	
0	0.0012	
-10	0.0017	
-20	0.0006	
-30	0.0029	

Band :	LTE Band 17 (QPSK)	Limit (ppm) :	Note

Temperature (°C)	BW 10MHz	Result
	Deviation (ppm)	
50	0.0000	PASS
40	0.0014	
30	0.0000	
20(Ref.)	0.0000	
10	0.0014	
0	0.0127	
-10	0.0113	
-20	0.0141	
-30	0.0155	

Note: The frequency fundamental emissions stay within the authorized frequency block from the derivation based on the frequency deviations measured on the center channel are small.

Band :	LTE Band 7 (QPSK)	Limit (ppm) :	Note

Temperature (°C)	BW 10MHz	Result
	Deviation (ppm)	
50	0.0158	PASS
40	0.0008	
30	0.0000	
20(Ref.)	0.0000	
10	0.0012	
0	0.0016	
-10	0.0020	
-20	0.0032	
-30	0.0036	

Note: The frequency fundamental emissions stay within the authorized frequency block from the derivation based on the frequency deviations measured on the center channel are small.

3.8.7 Test Result of Voltage Variation (FCC)

Band	Bandwidth	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5	10M	5.25	0.0012	2.5	PASS
		Normal	0.0000		
		4.75	0.0012		
LTE Band 2	10M	5.25	0.0021	(Note 3.)	PASS
		Normal	0.0000		
		4.75	0.0005		
LTE Band 4	10M	5.25	0.0017	(Note 3.)	PASS
		Normal	0.0000		
		4.75	0.0017		
LTE Band 17	10M	5.25	0.0127	(Note 3.)	PASS
		Normal	0.0000		
		4.75	0.0028		
LTE Band 7	10M	5.25	0.0024	(Note 3.)	PASS
		Normal	0.0000		
		4.75	0.0008		

Remark:

1. Normal Voltage = 5.00V.
2. The manufacturer declared that the EUT could work properly between voltage 4.75V ~ 5.25V.
3. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	100845	9kHz~30GHz; Max input Power 30dBm	Dec. 04, 2013	Aug. 29, 2014 ~ Oct. 09, 2014	Dec. 03, 2014	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	(-40~+150)	Dec. 10, 2013	Aug. 29, 2014 ~ Oct. 09, 2014	Dec. 09, 2014	Conducted (TH01-KS)
Base Station	Anritsu	MT8820C	6201107507	SISO FDD	Apr. 02, 2014	Aug. 24, 2014 ~ Aug. 25, 2014	Apr. 01, 2015	Radiation (03CH07-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV30	101749	10Hz ~ 30GHz	Feb. 10, 2014	Aug. 24, 2014 ~ Aug. 25, 2014	Feb. 09, 2015	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 10, 2013	Aug. 24, 2014 ~ Aug. 25, 2014	Oct. 09, 2014	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 19, 2014	Aug. 24, 2014 ~ Aug. 25, 2014	Aug. 18, 2015	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10 MHz ~ 1000MHz	Mar. 17, 2014	Aug. 24, 2014 ~ Aug. 25, 2014	Mar. 16, 2015	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1 GHz~26.5 GHz	Nov. 29, 2013	Aug. 24, 2014 ~ Aug. 25, 2014	Nov. 28, 2014	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	Aug. 24, 2014 ~ Aug. 25, 2014	N/A	Radiation (03CH07-HY)
Antenna Mast	ChainTek	M-400-0	114/8000604/L	N/A	N/A	Aug. 24, 2014 ~ Aug. 25, 2014	N/A	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 03, 2013	Aug. 24, 2014 ~ Aug. 25, 2014	Oct. 02, 2014	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.50**