

3.5 Conducted Band Edge Measurement

3.5.1 Description of Conducted Band Edge Measurement

22.917(a) and RSS – 132

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (f) and RSS – 130

For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (g) and RSS – 139

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

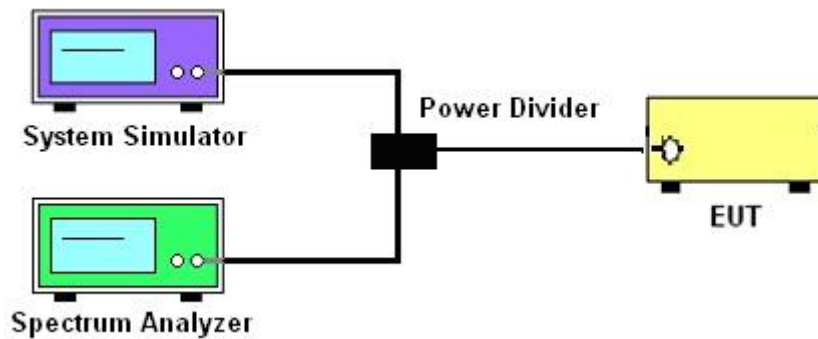
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with RMS detector.
4. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
5. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power $P(\text{Watts})$
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

3.5.4 Test Setup

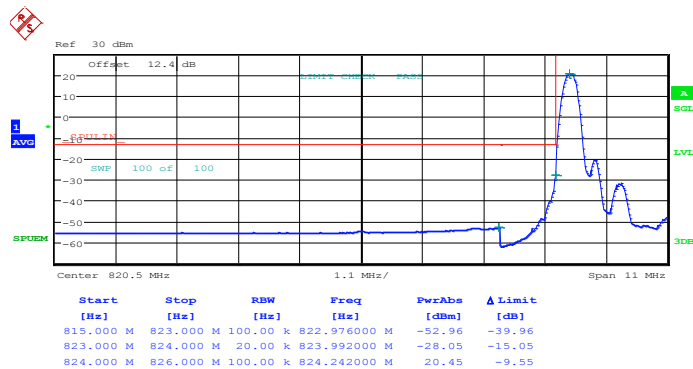




3.5.5 Test Result (Plots) of Conducted Band Edge

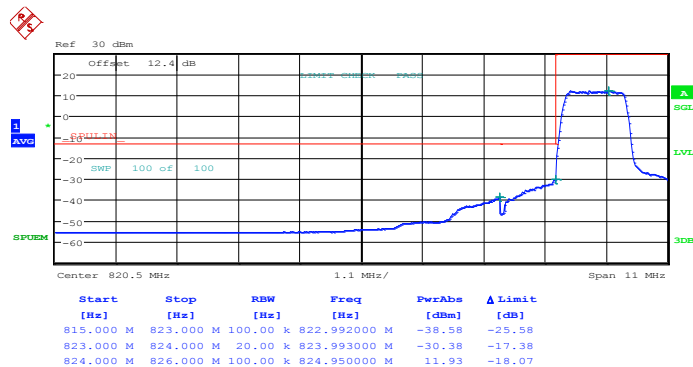
Band :	LTE Band 5	Band Width :	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 20:05:21

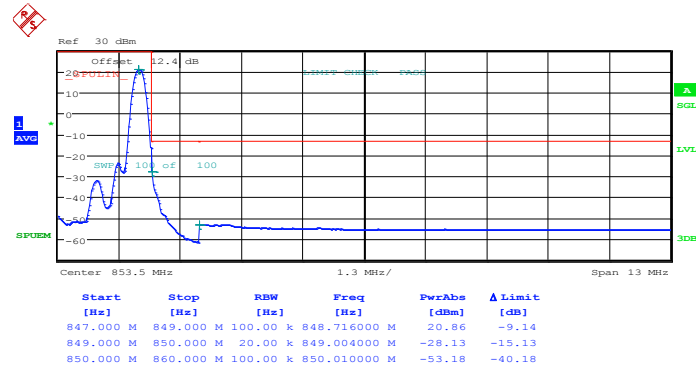
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 27.MAY.2014 20:06:56

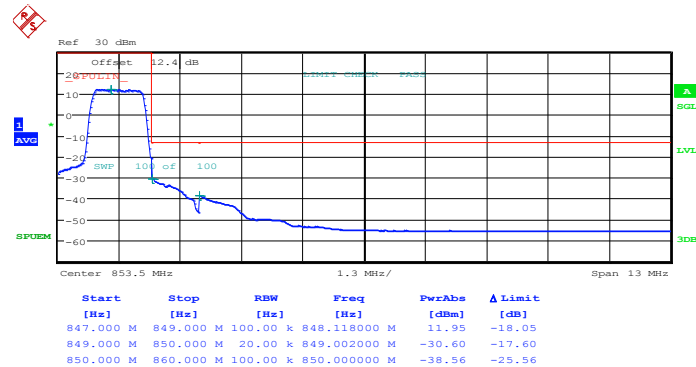


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



Date: 27.MAY.2014 20:16:30

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0

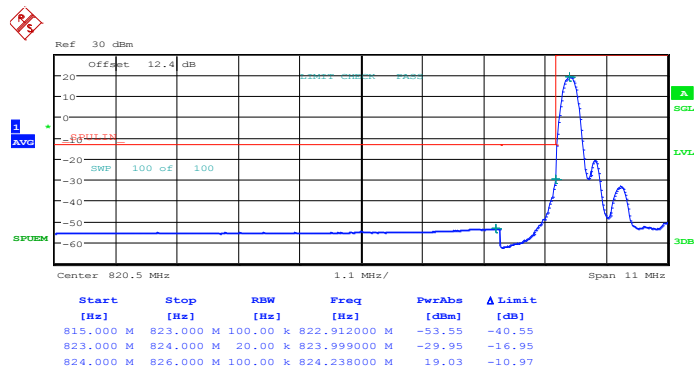


Date: 27.MAY.2014 20:14:53



Band :	LTE Band 5	Band Width :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 27.MAY.2014 20:06:09

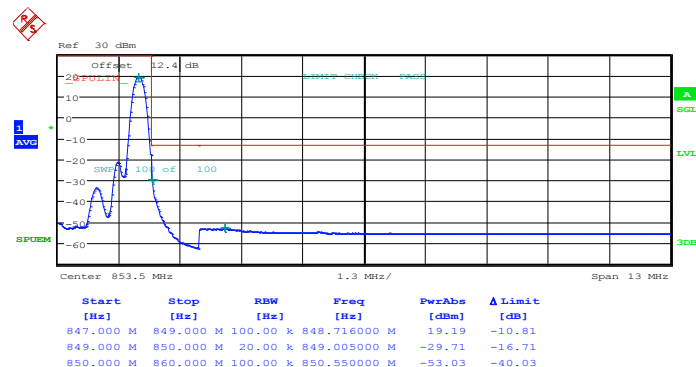
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 27.MAY.2014 20:07:44

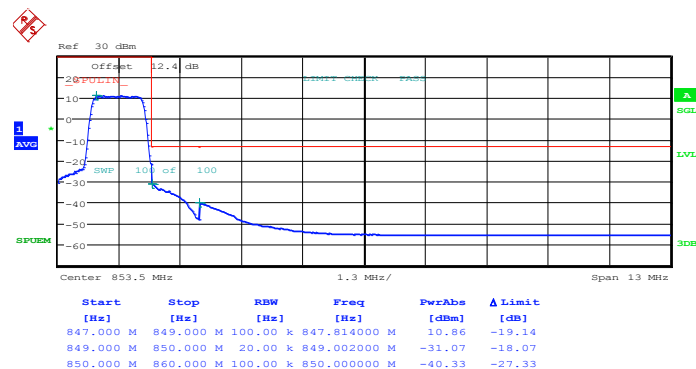


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



Date: 27.MAY.2014 20:17:18

Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0

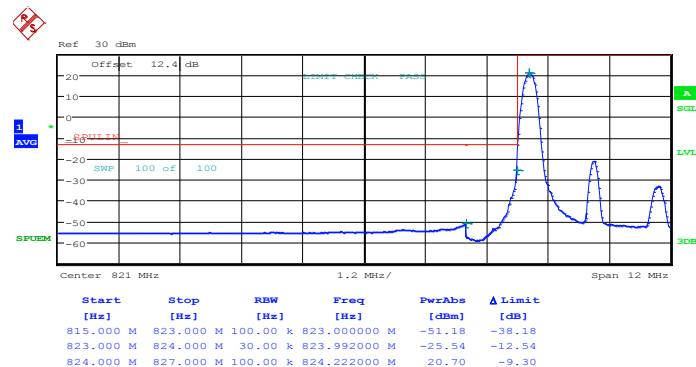


Date: 27.MAY.2014 20:15:42



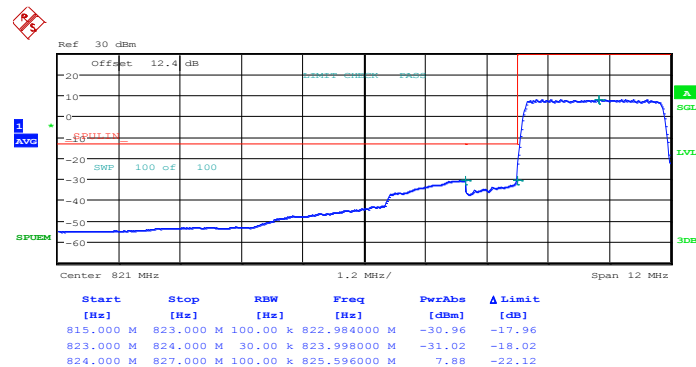
Band :	LTE Band 5	Band Width :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 19:15:35

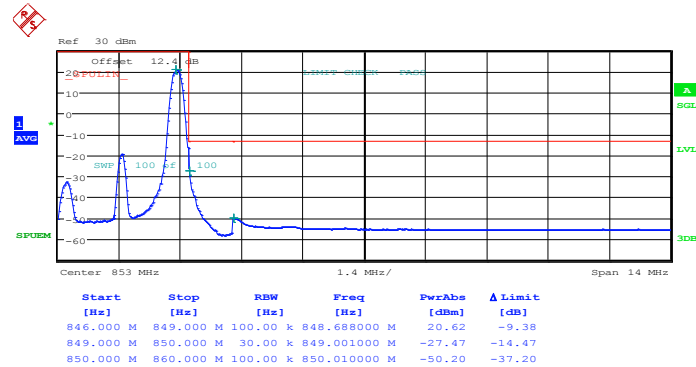
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 27.MAY.2014 19:17:10

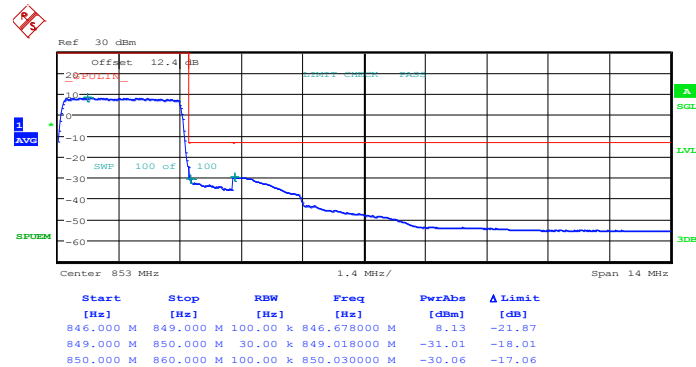


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 27.MAY.2014 19:25:06

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0

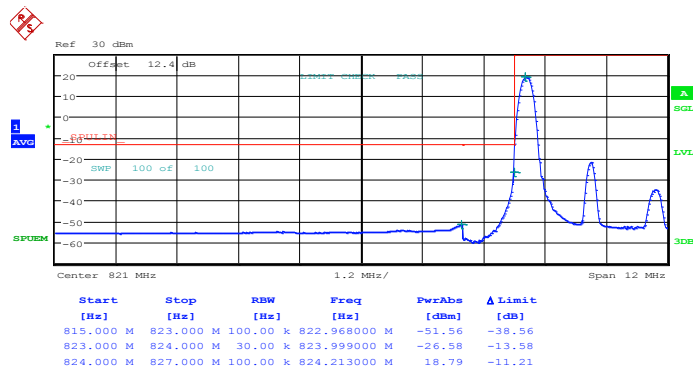


Date: 27.MAY.2014 19:26:41



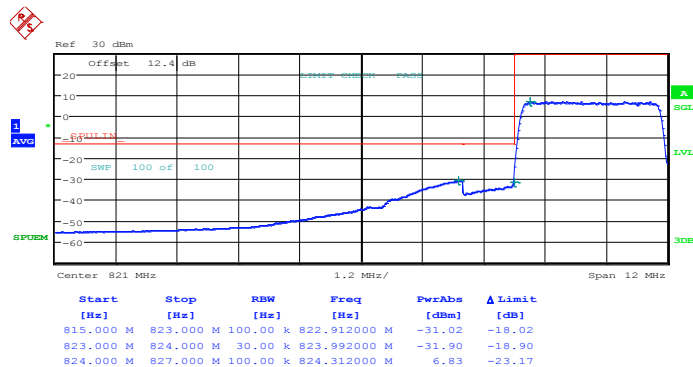
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 27.MAY.2014 19:16:22

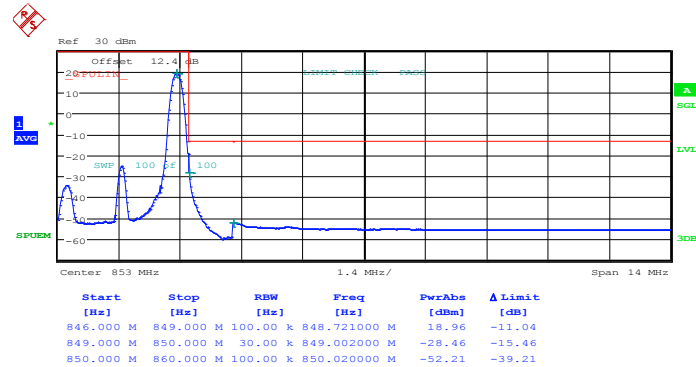
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 27.MAY.2014 19:17:58

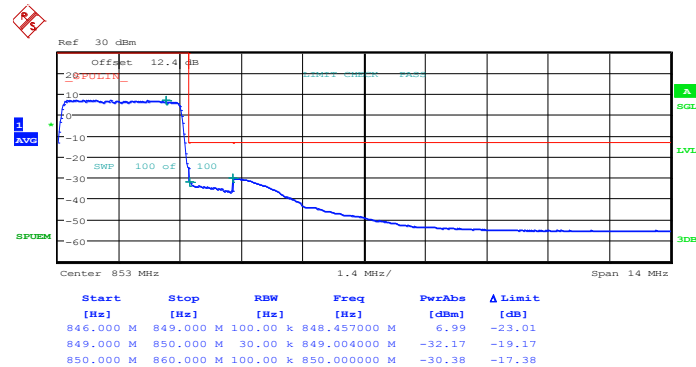


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 27.MAY.2014 19:25:54

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0

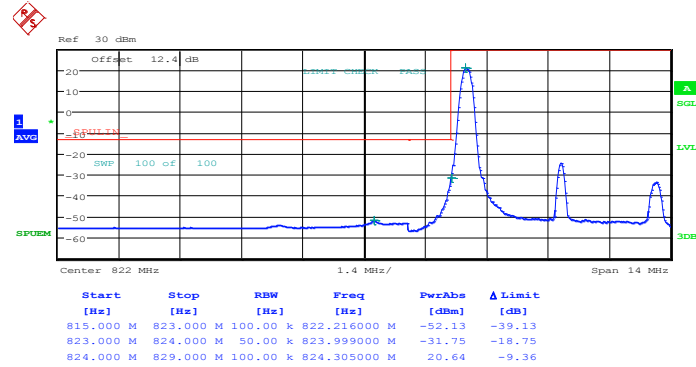


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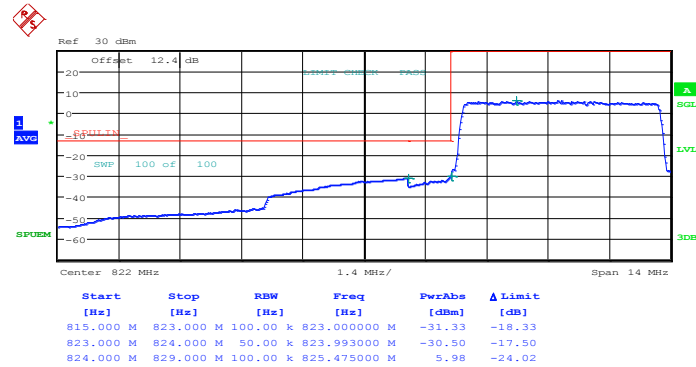
Band :	LTE Band 5	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



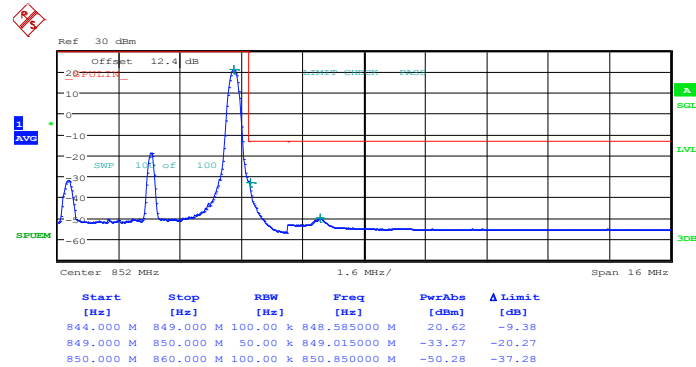
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Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



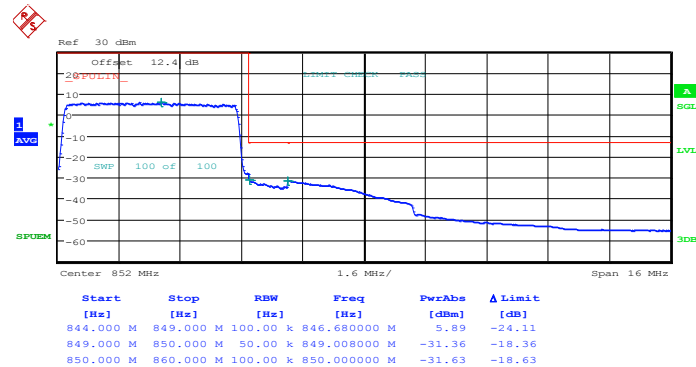
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Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 27.MAY.2014 19:40:58

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

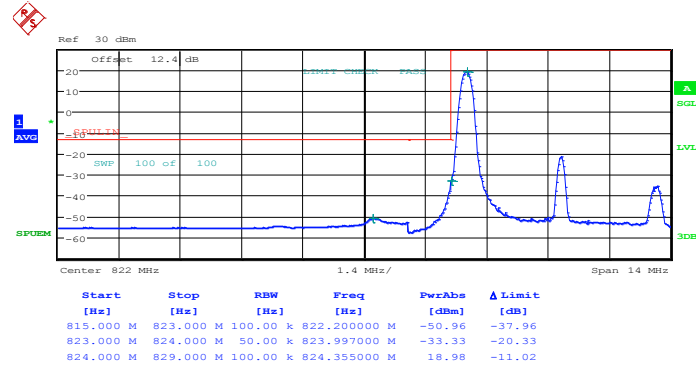


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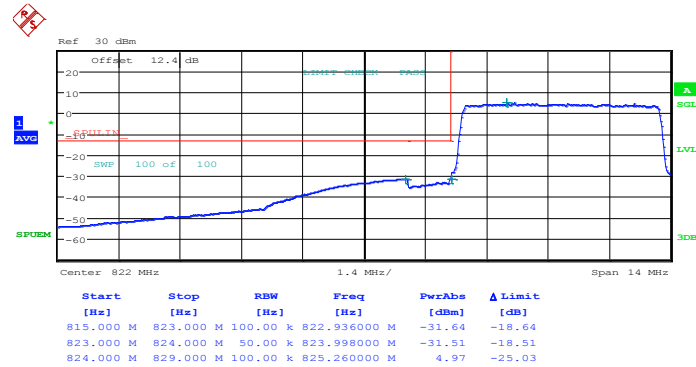
Band :	LTE Band 5	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 27.MAY.2014 19:32:15

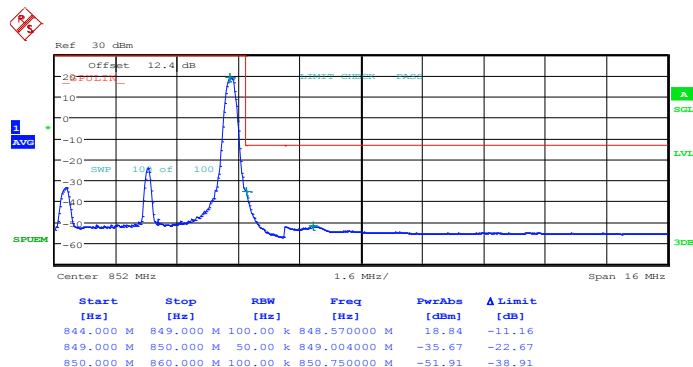
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 27.MAY.2014 19:33:50

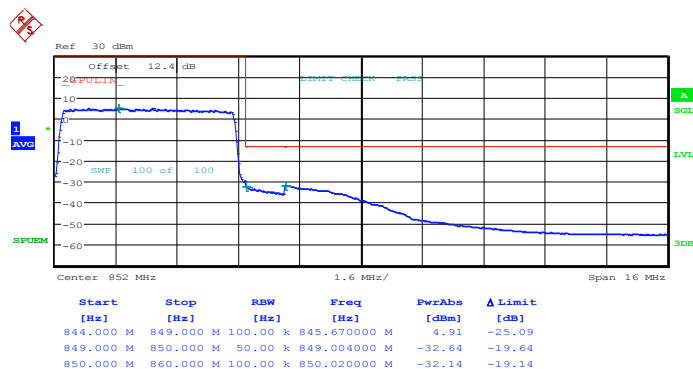


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 27.MAY.2014 19:41:46

Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0

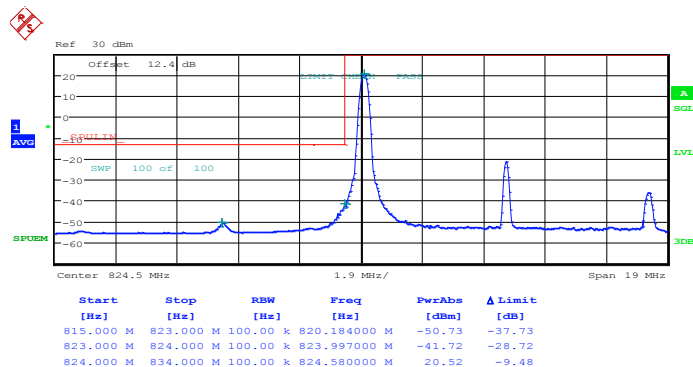


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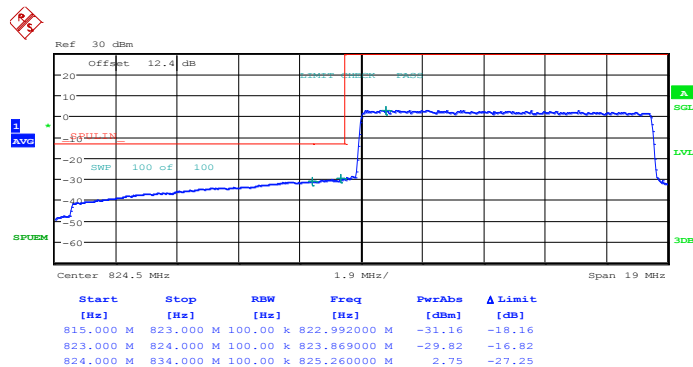
Band :	LTE Band 5	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



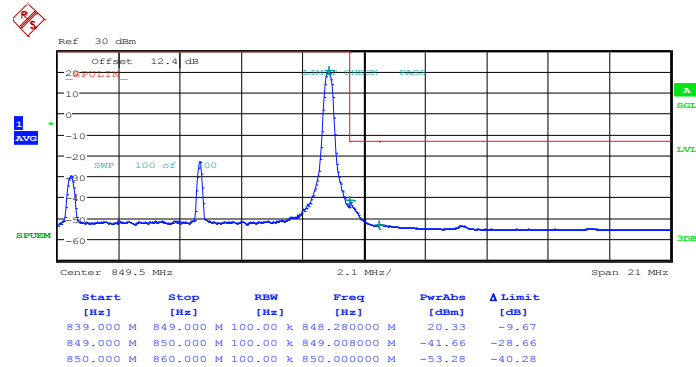
Date: 27.MAY.2014 19:47:19

Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



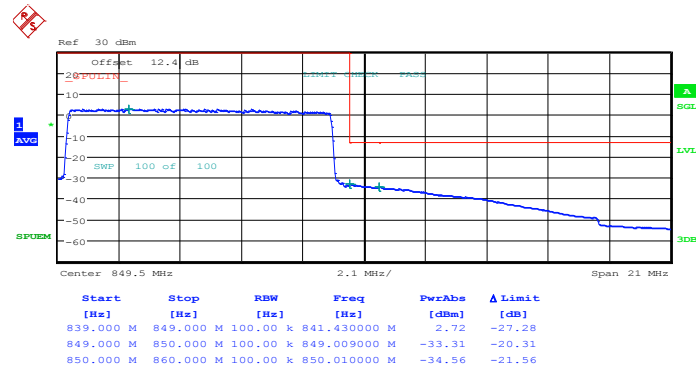
Date: 27.MAY.2014 19:48:55

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 27.MAY.2014 19:56:50

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

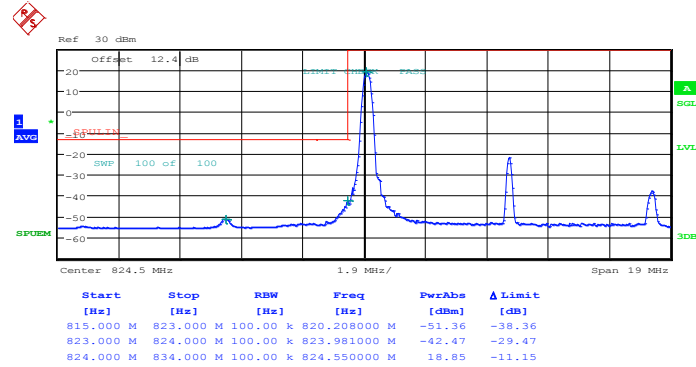


Date: 27.MAY.2014 19:58:26



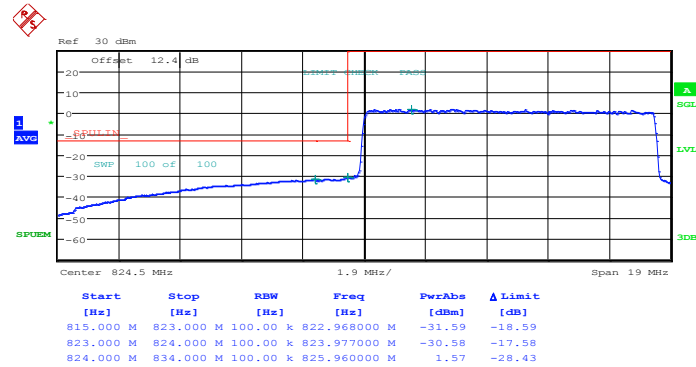
Band :	LTE Band 5	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 27.MAY.2014 19:48:07

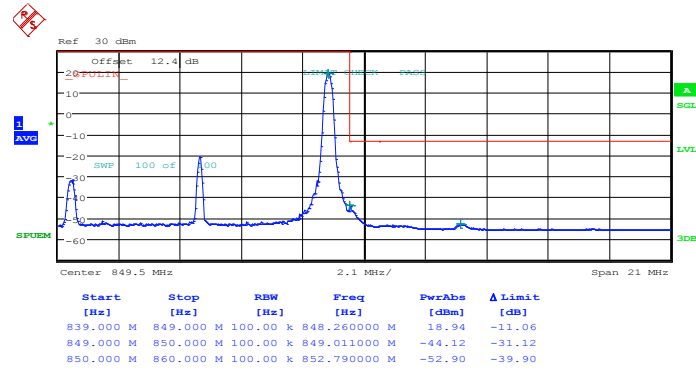
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 27.MAY.2014 19:49:42

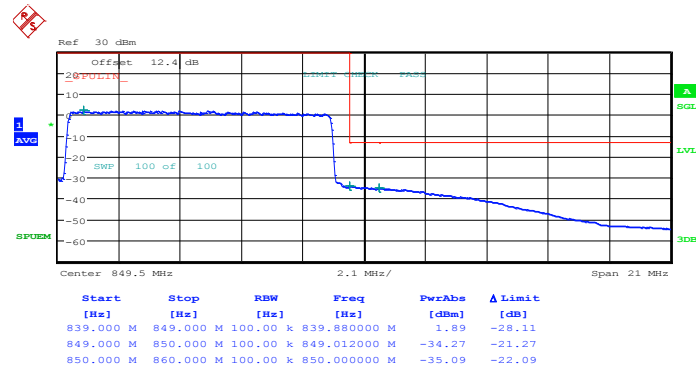


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 27.MAY.2014 19:57:38

Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0

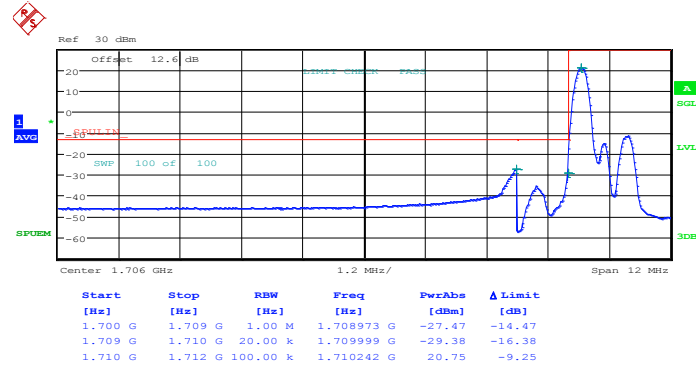


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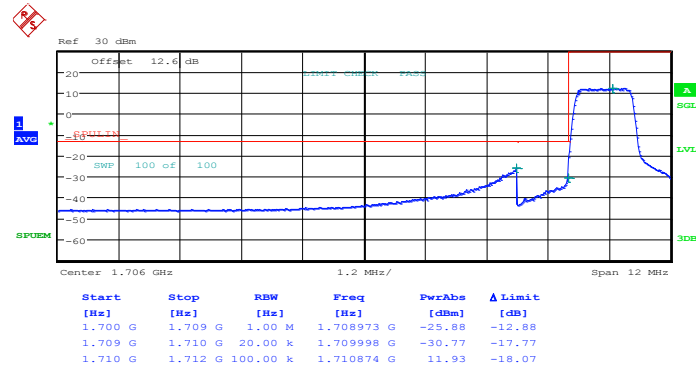
Band :	LTE Band 4	Band Width :	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 16:43:05

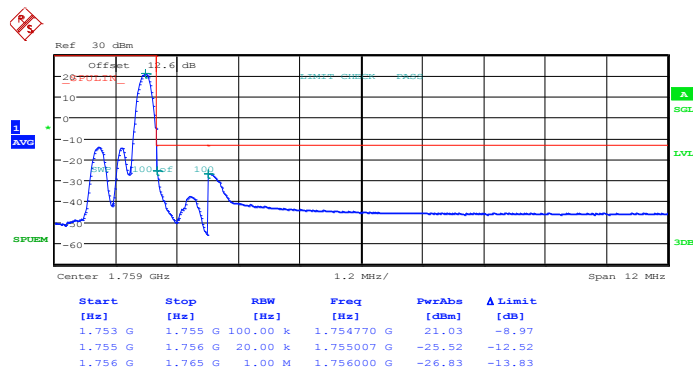
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 27.MAY.2014 16:44:40

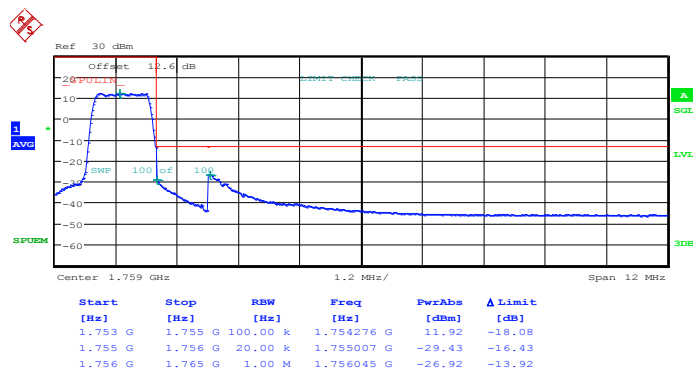


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



Date: 27.MAY.2014 16:52:35

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0

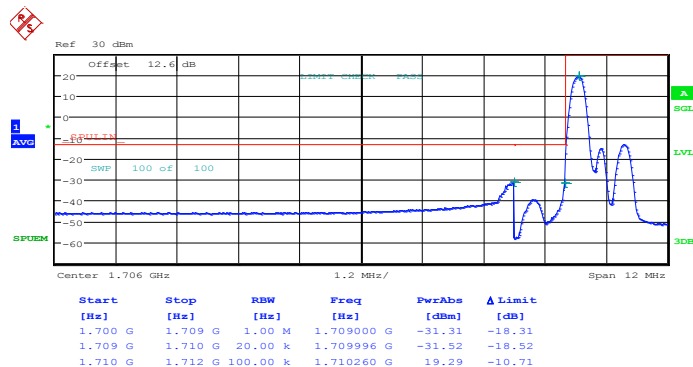


Date: 27.MAY.2014 16:54:10



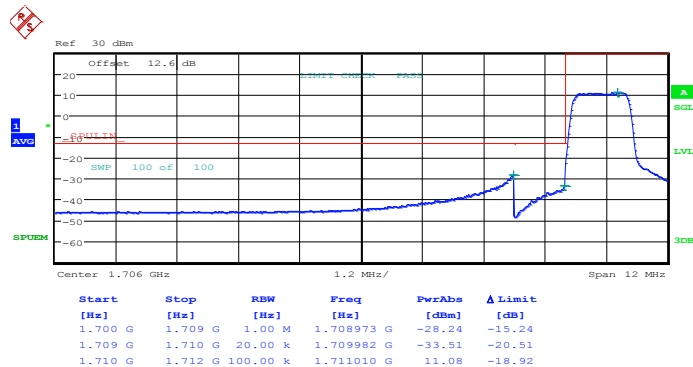
Band :	LTE Band 4	Band Width :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 27.MAY.2014 16:43:53

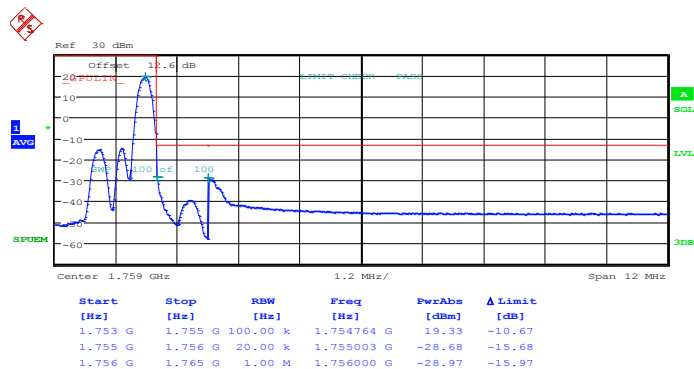
Lower Band Edge Plot for 16QAM-RB Size 6, RB Offset 0



Date: 27.MAY.2014 16:45:28

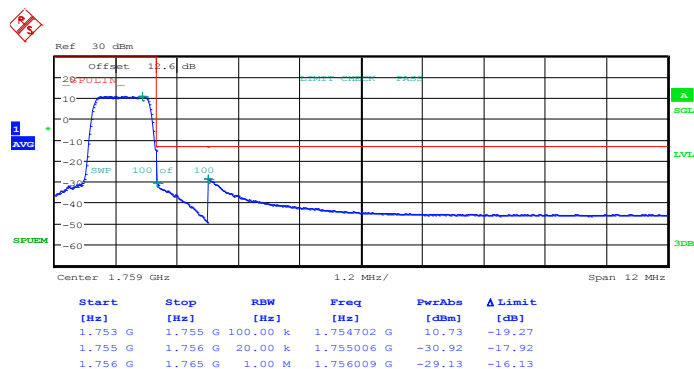


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 5



Date: 27.MAY.2014 16:53:23

Higher Band Edge Plot for 16QAM-RB Size 6, RB Offset 0

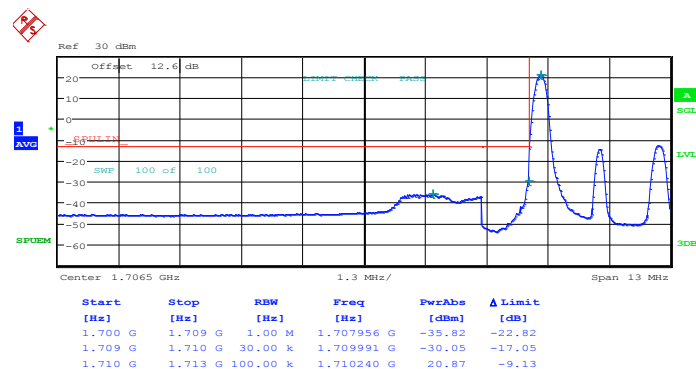


Date: 27.MAY.2014 16:54:58



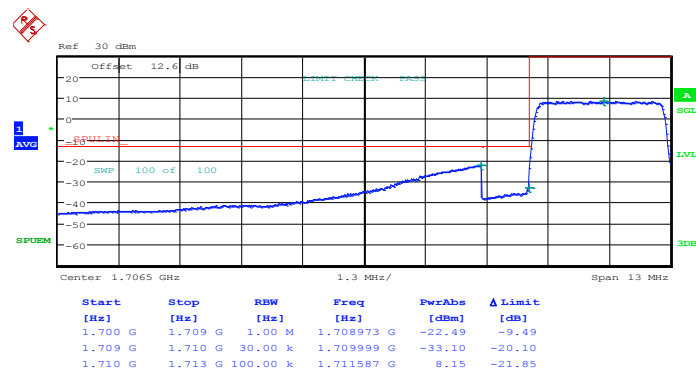
Band :	LTE Band 4	Band Width :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



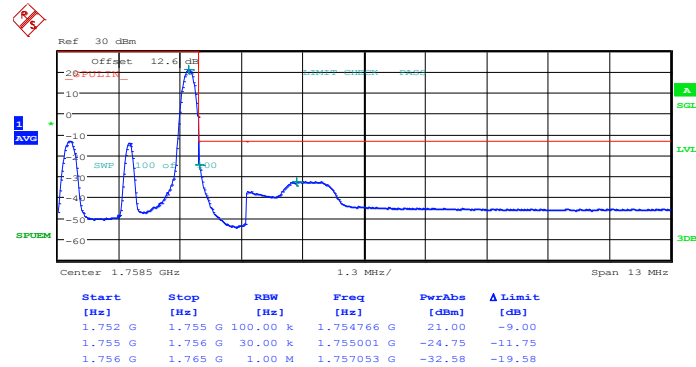
Date: 27.MAY.2014 17:01:10

Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



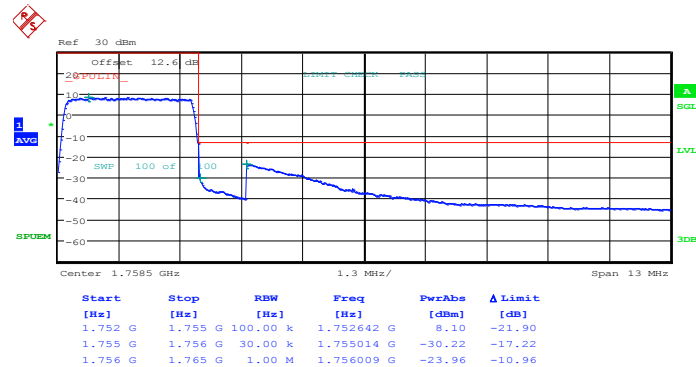
Date: 27.MAY.2014 17:02:45

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 27.MAY.2014 17:10:42

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0

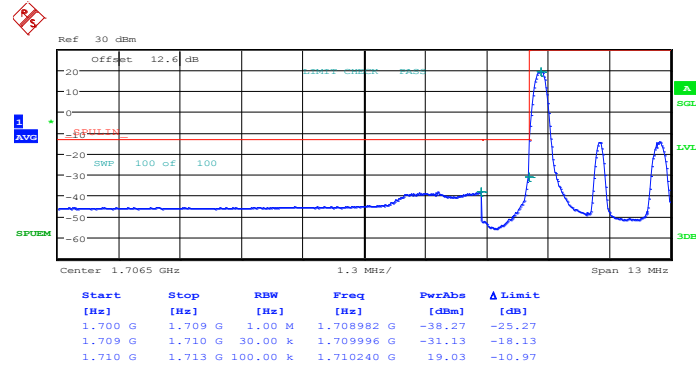


Date: 27.MAY.2014 17:12:17



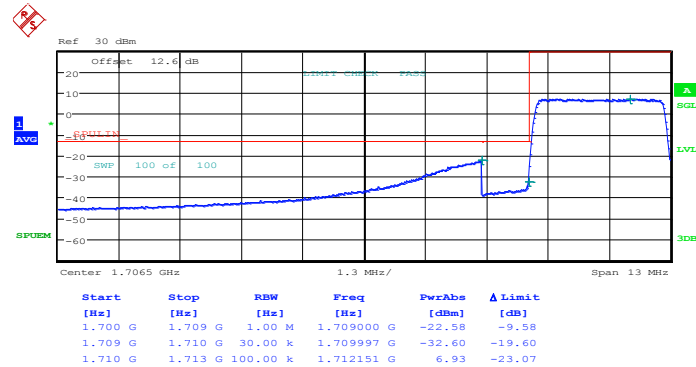
Band :	LTE Band 4	Band Width :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 27.MAY.2014 17:01:57

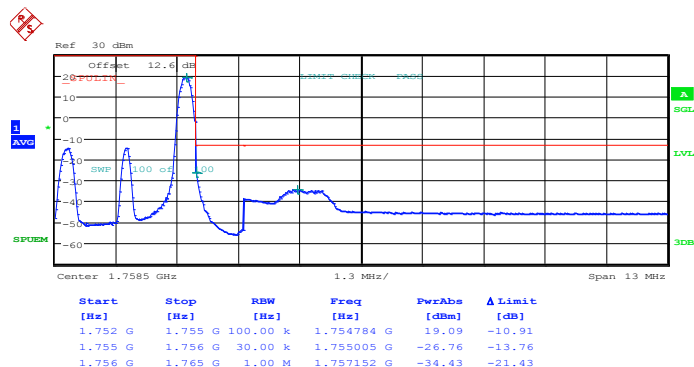
Lower Band Edge Plot for 16QAM-RB Size 15, RB Offset 0



Date: 27.MAY.2014 17:03:33

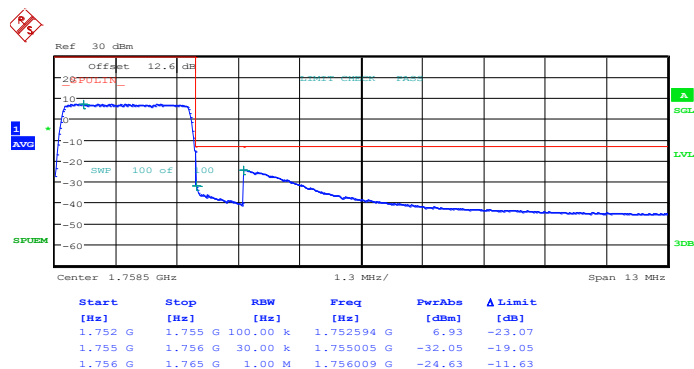


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 14



Date: 27.MAY.2014 17:11:30

Higher Band Edge Plot for 16QAM-RB Size 15, RB Offset 0

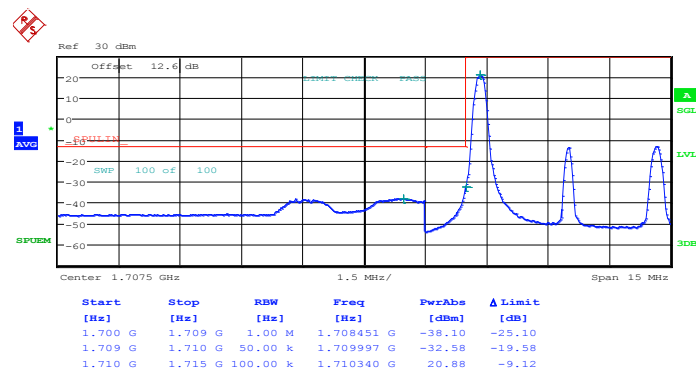


Date: 27.MAY.2014 17:13:05



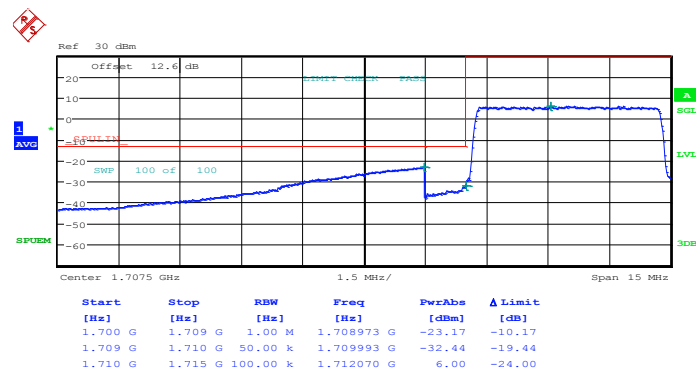
Band :	LTE Band 4	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 17:17:03

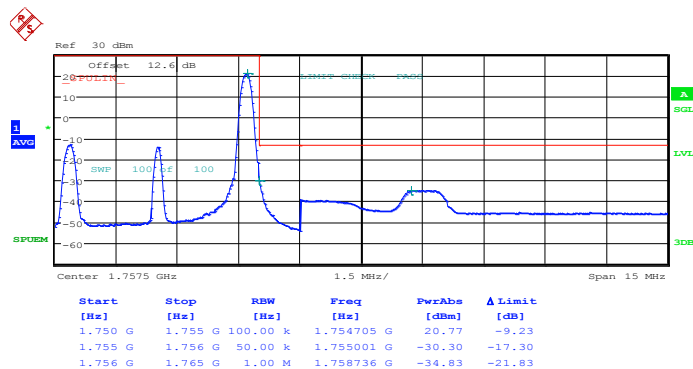
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 27.MAY.2014 17:18:38

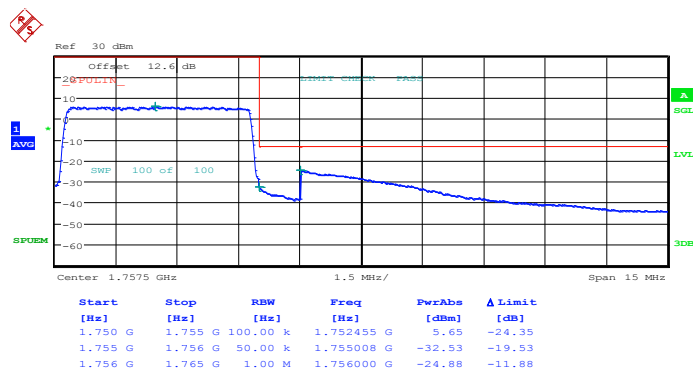


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 27.MAY.2014 17:26:35

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

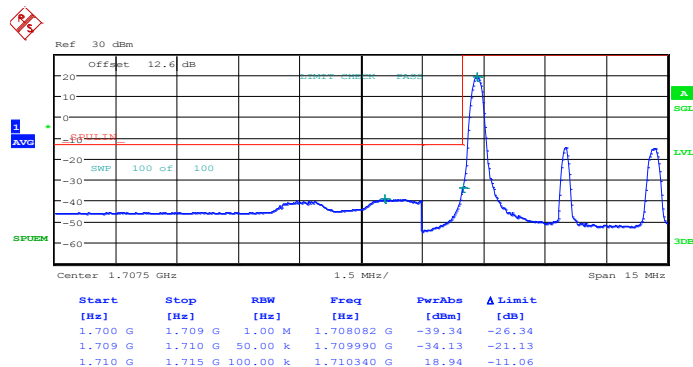


Date: 27.MAY.2014 17:28:11



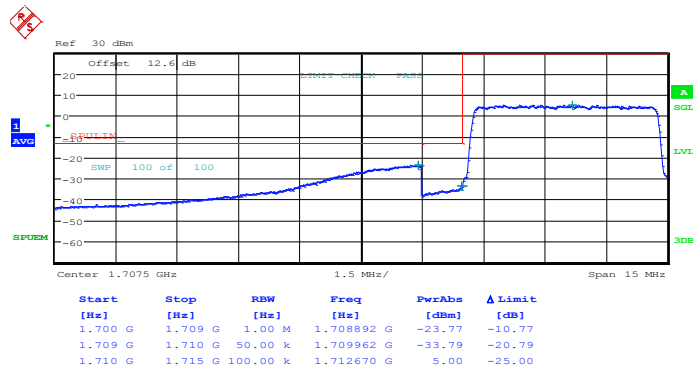
Band :	LTE Band 4	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 27.MAY.2014 17:17:50

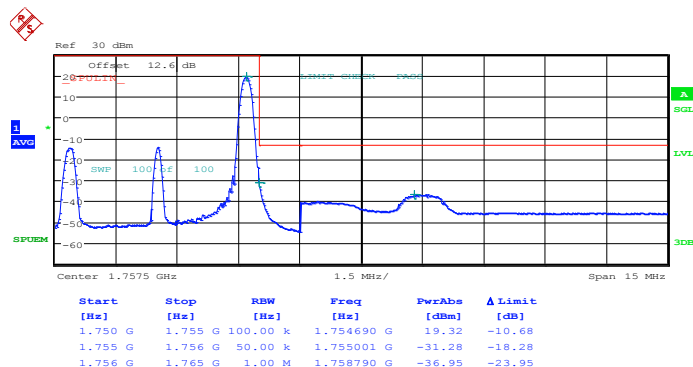
Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



Date: 27.MAY.2014 17:19:26

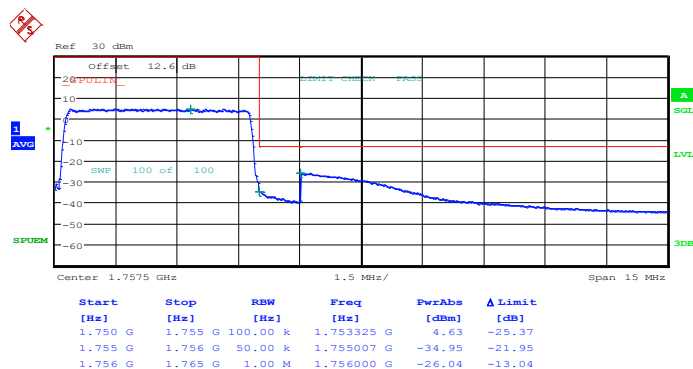


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 27.MAY.2014 17:27:23

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

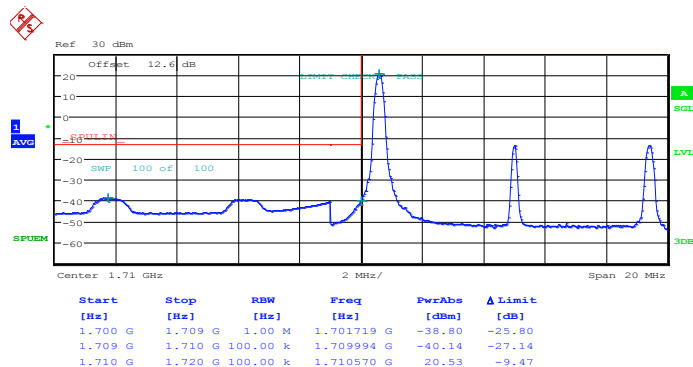


Date: 27.MAY.2014 17:28:58



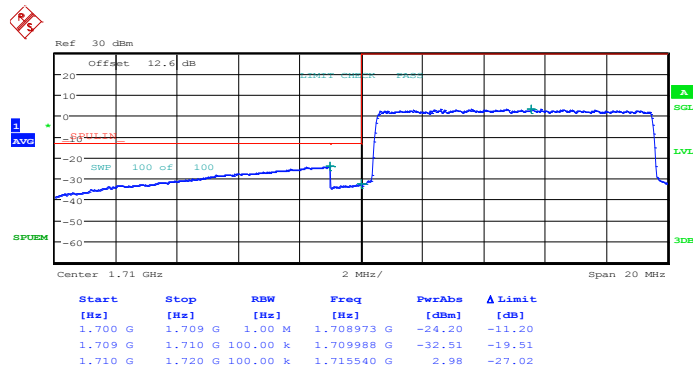
Band :	LTE Band 4	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 17:32:56

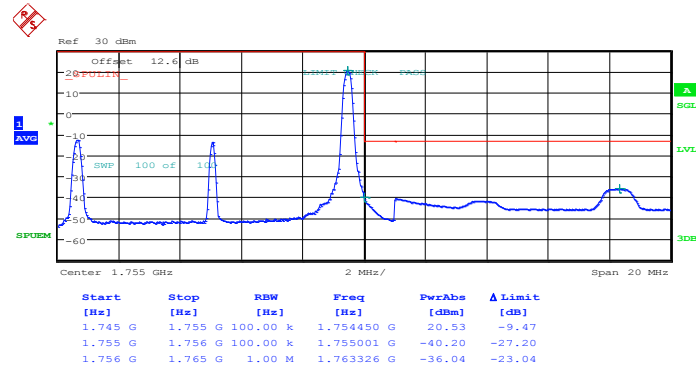
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 27.MAY.2014 17:34:31

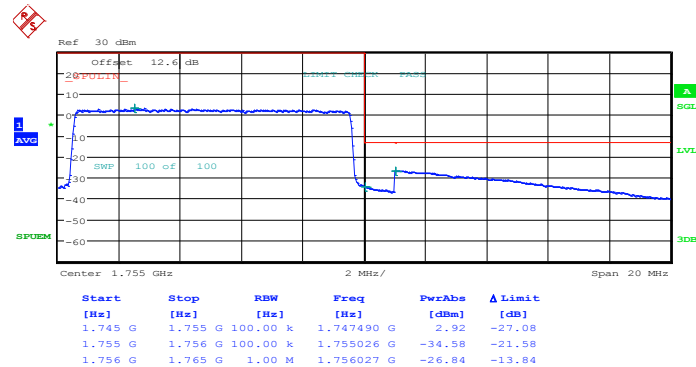


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 27.MAY.2014 17:42:26

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

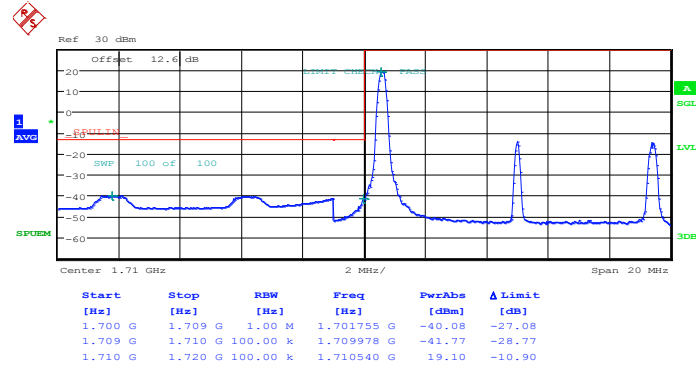


Date: 27.MAY.2014 17:44:01



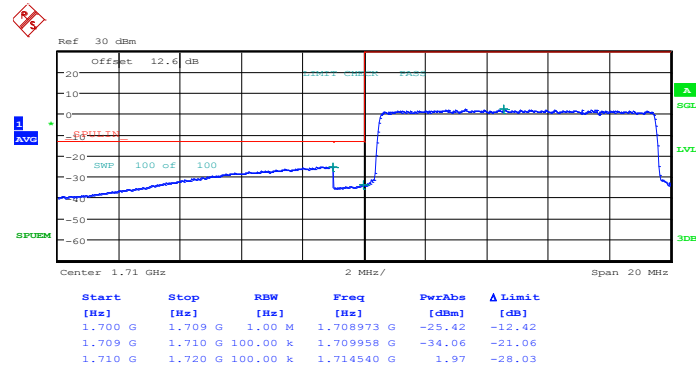
Band :	LTE Band 4	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



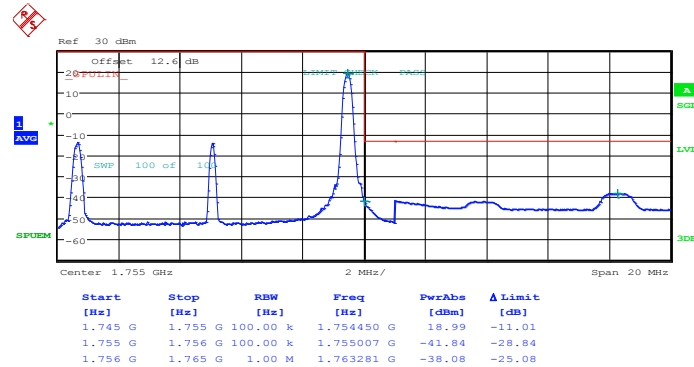
Date: 27.MAY.2014 17:33:43

Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



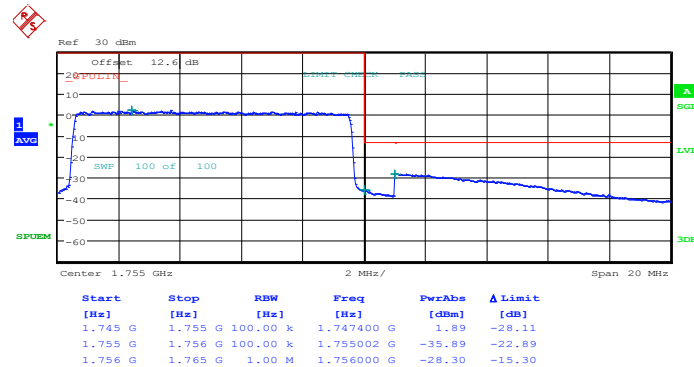
Date: 27.MAY.2014 17:35:18

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Date: 27.MAY.2014 17:43:13

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0

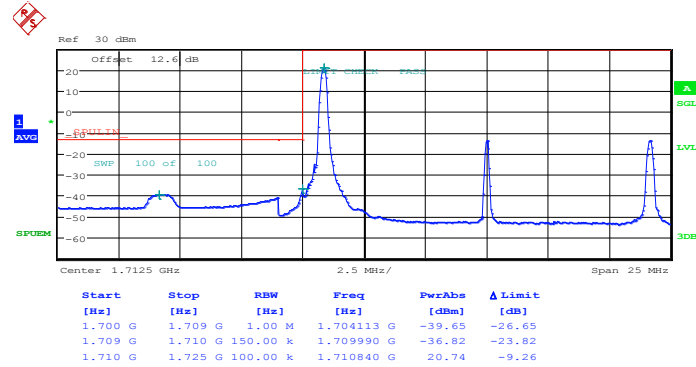


Date: 27.MAY.2014 17:44:48



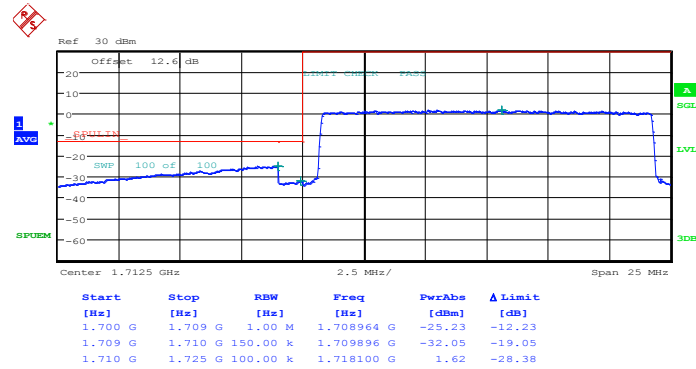
Band :	LTE Band 4	Band Width :	15MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 17:48:46

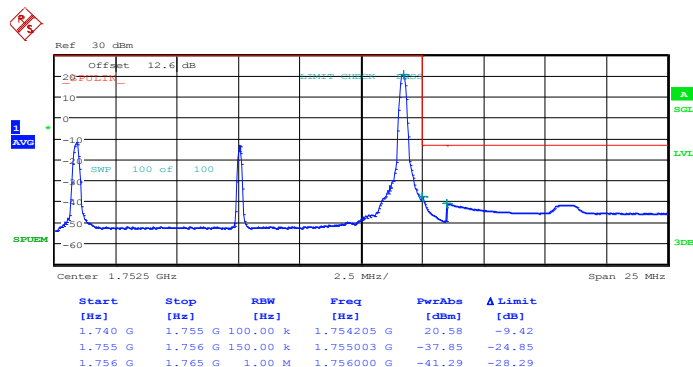
Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



Date: 27.MAY.2014 17:50:21

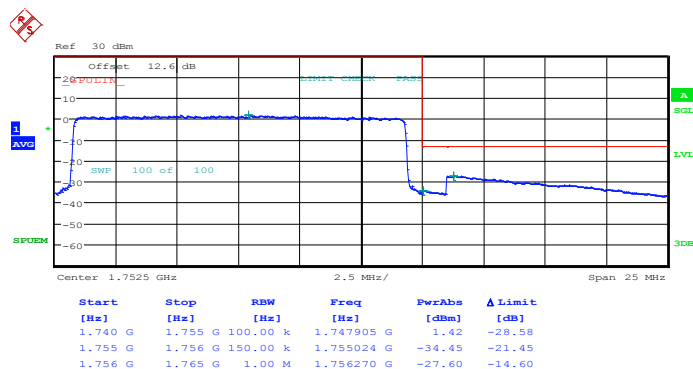


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



Date: 27.MAY.2014 17:58:16

Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

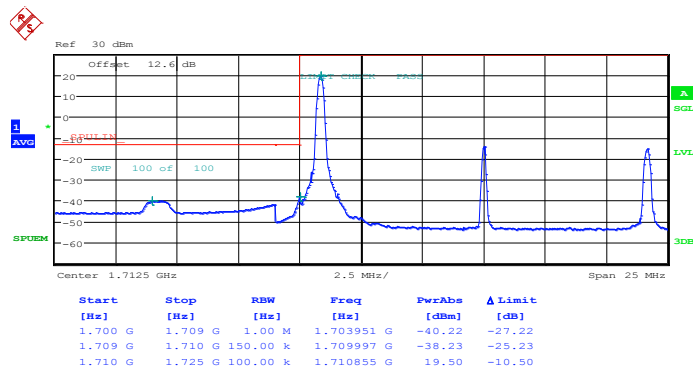


Date: 27.MAY.2014 17:59:51



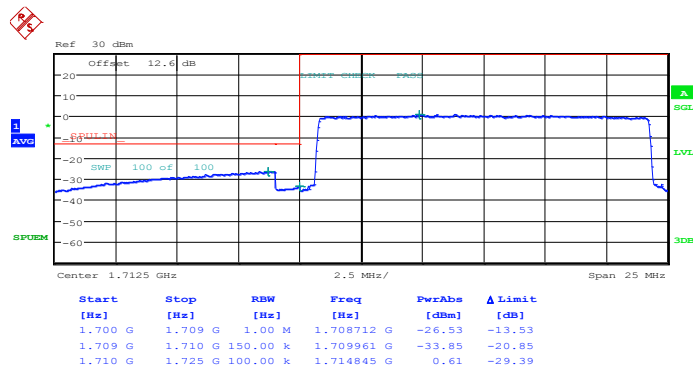
Band :	LTE Band 4	Band Width :	15MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 27.MAY.2014 17:49:33

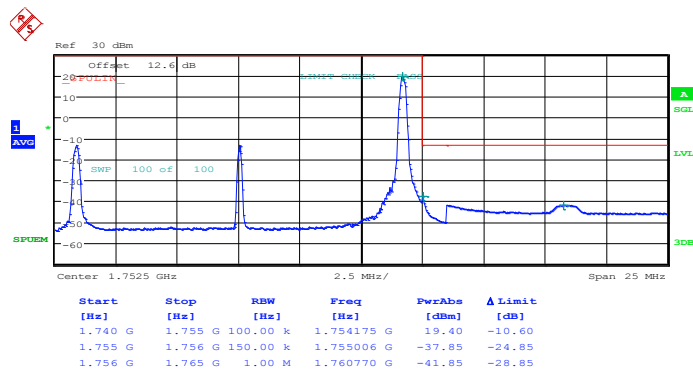
Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



Date: 27.MAY.2014 17:51:09

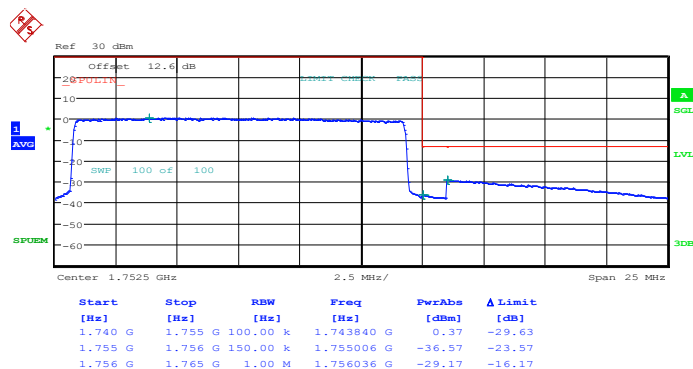


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74



Date: 27.MAY.2014 17:59:04

Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0

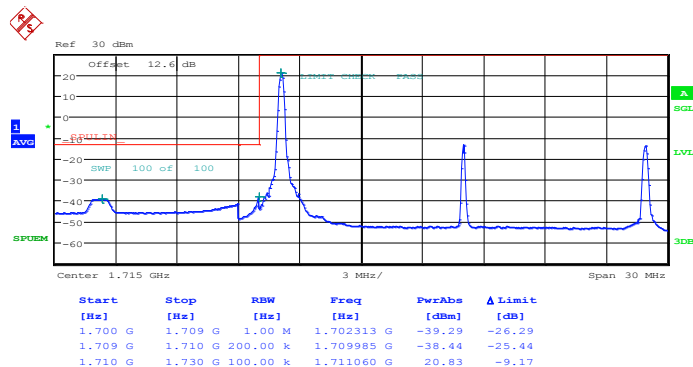


Date: 27.MAY.2014 18:00:39



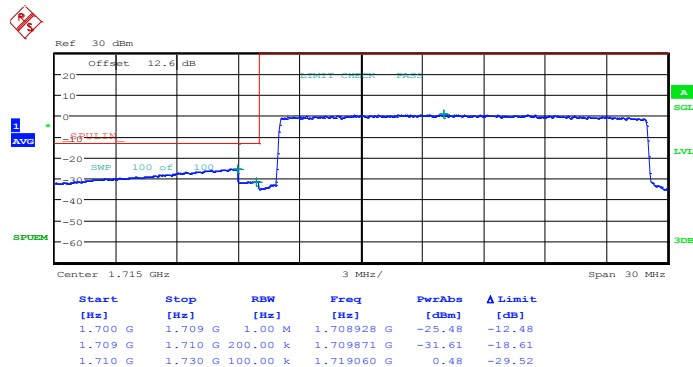
Band :	LTE Band 4	Band Width :	20MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



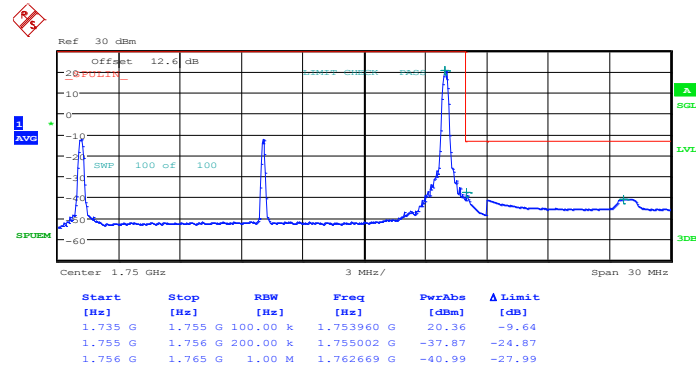
Date: 27.MAY.2014 18:04:37

Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



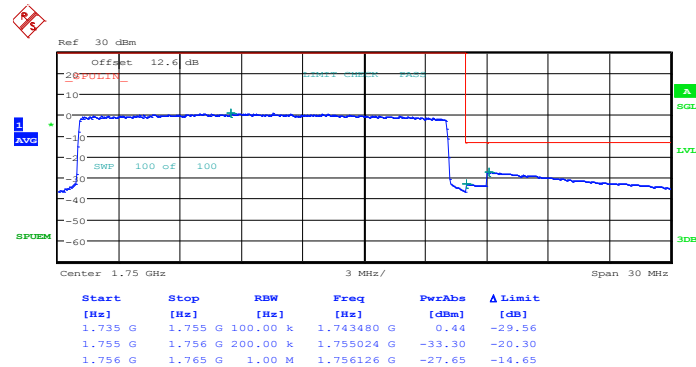
Date: 27.MAY.2014 18:06:12

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



Date: 27.MAY.2014 18:14:07

Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0

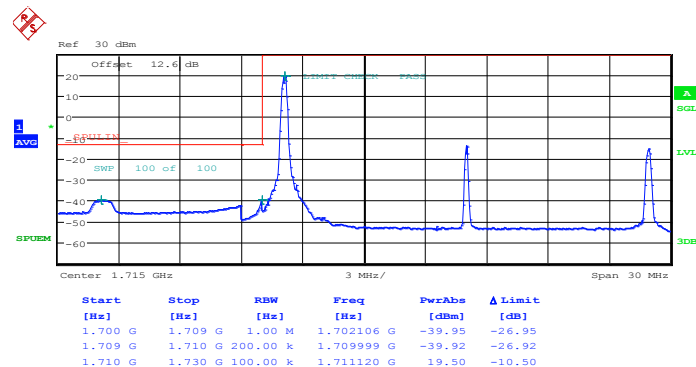


Date: 27.MAY.2014 18:15:42



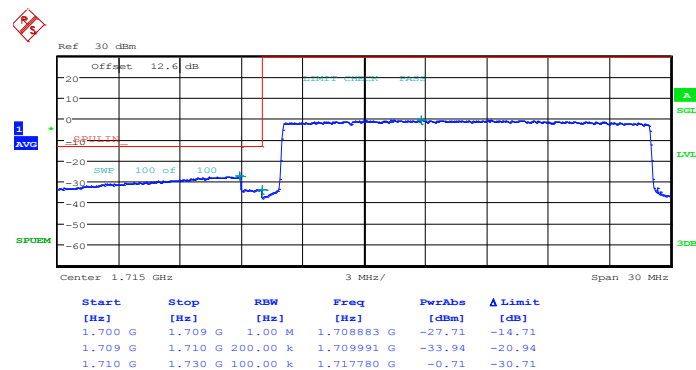
Band :	LTE Band 4	Band Width :	20MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 27.MAY.2014 18:05:24

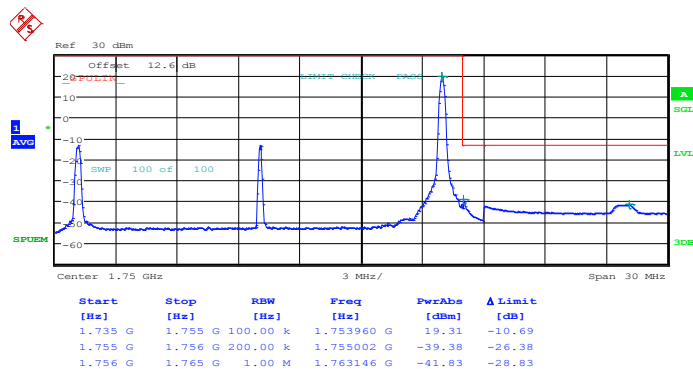
Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0



Date: 27.MAY.2014 18:06:59

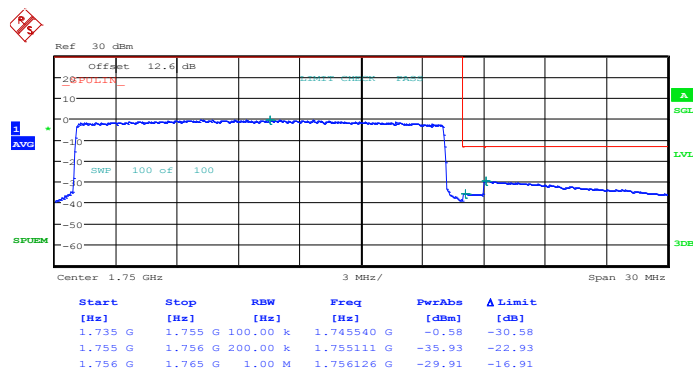


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99



Date: 27.MAY.2014 18:14:54

Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

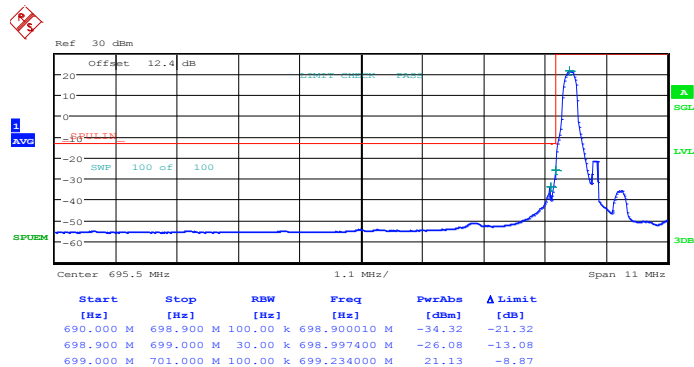


Date: 27.MAY.2014 18:16:29



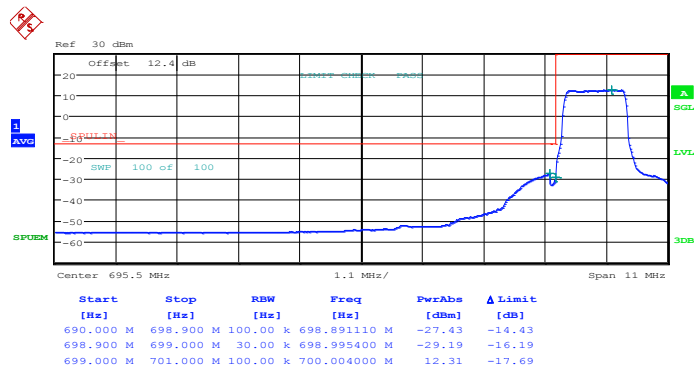
Band :	LTE Band 12	Band Width :	1.4MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 20:26:33

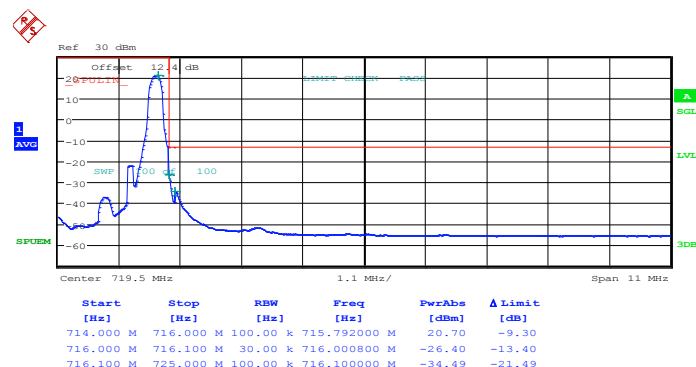
Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



Date: 27.MAY.2014 20:24:10

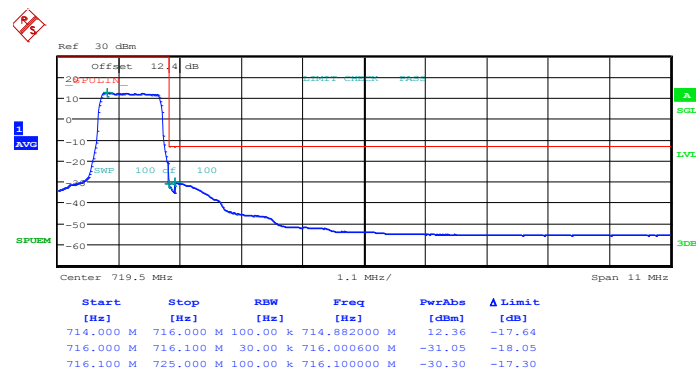


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



Date: 27.MAY.2014 20:36:05

Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0

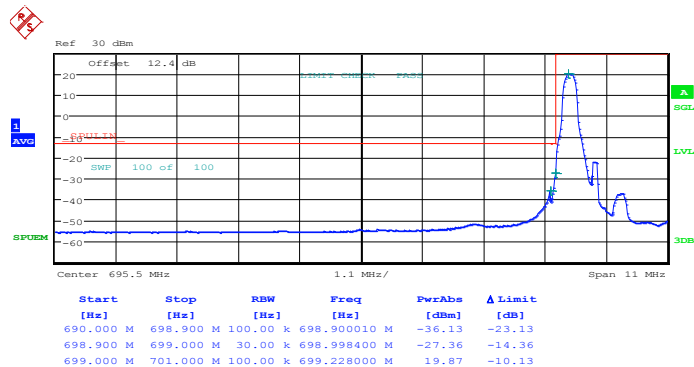


Date: 27.MAY.2014 20:33:41



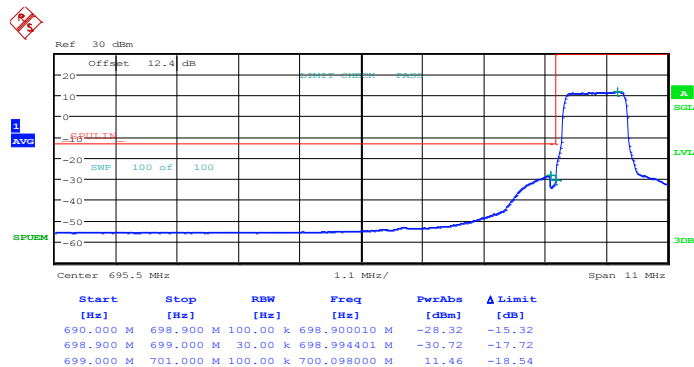
Band :	LTE Band 12	Band Width :	1.4MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 27.MAY.2014 20:25:46

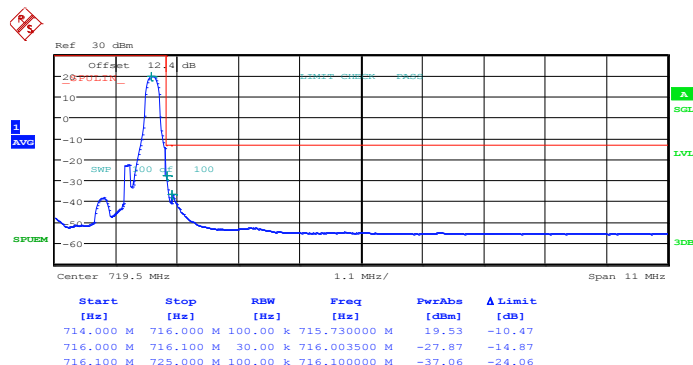
Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



Date: 27.MAY.2014 20:24:58



Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



Date: 27.MAY.2014 20:35:17

Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0

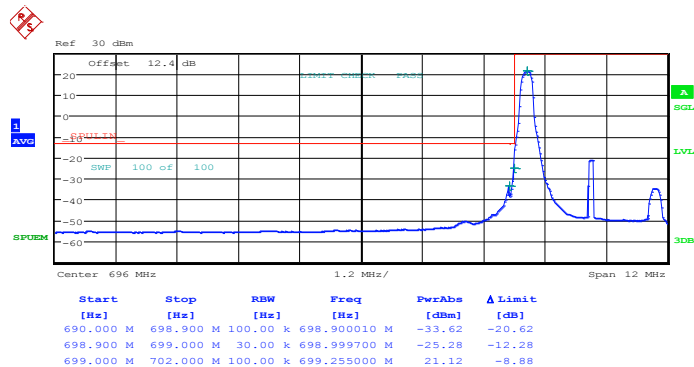


Date: 27.MAY.2014 20:34:29



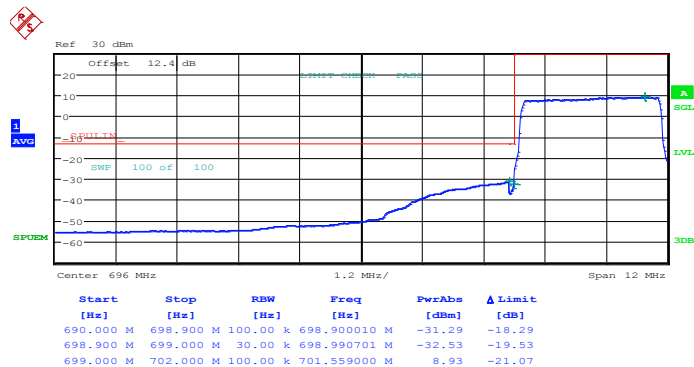
Band :	LTE Band 12	Band Width :	3MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 20:45:29

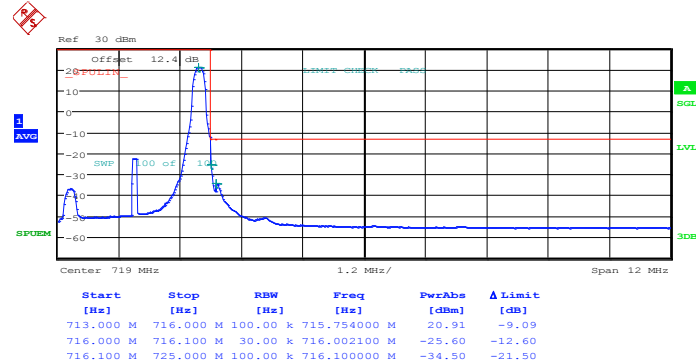
Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



Date: 27.MAY.2014 20:42:55

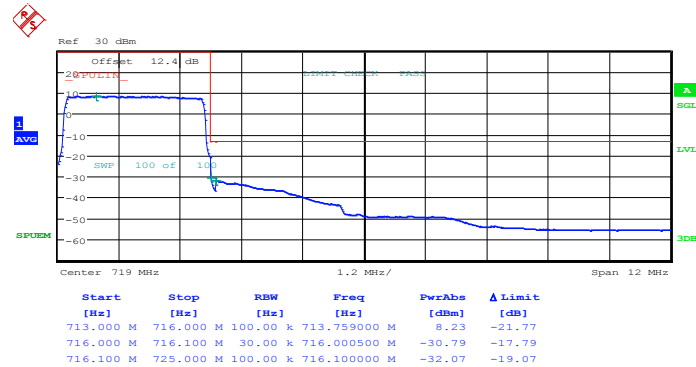


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



Date: 27.MAY.2014 20:57:55

Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0

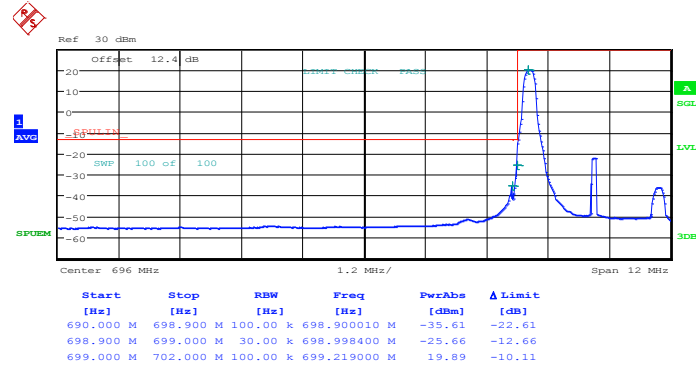


Date: 27.MAY.2014 20:55:29



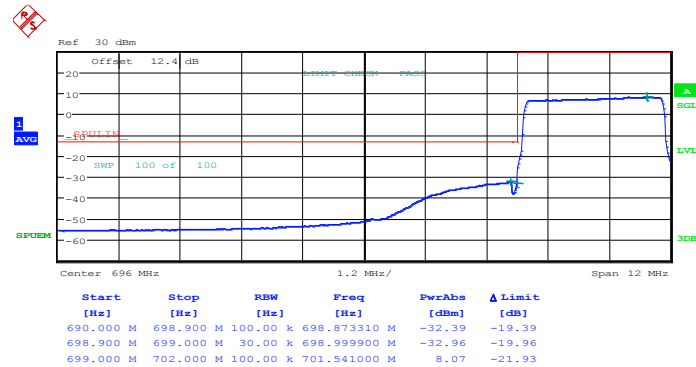
Band :	LTE Band 12	Band Width :	3MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 27.MAY.2014 20:44:37

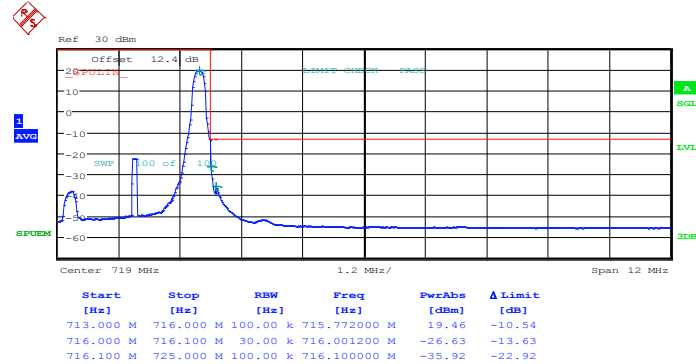
Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



Date: 27.MAY.2014 20:43:46

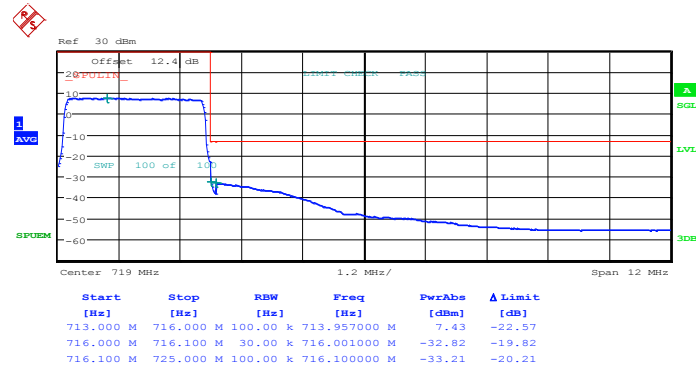


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



Date: 27.MAY.2014 20:57:07

Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0

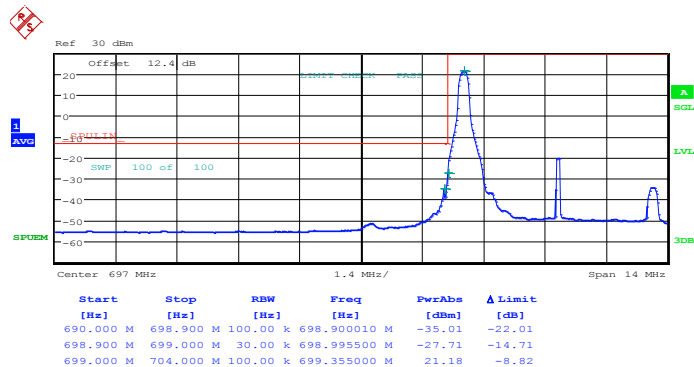


Date: 27.MAY.2014 20:56:18



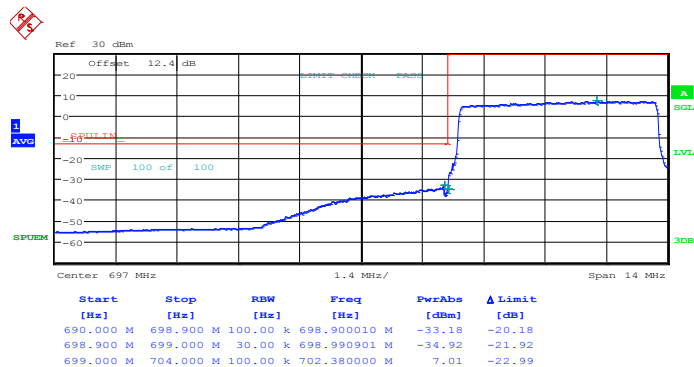
Band :	LTE Band 12	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 21:04:51

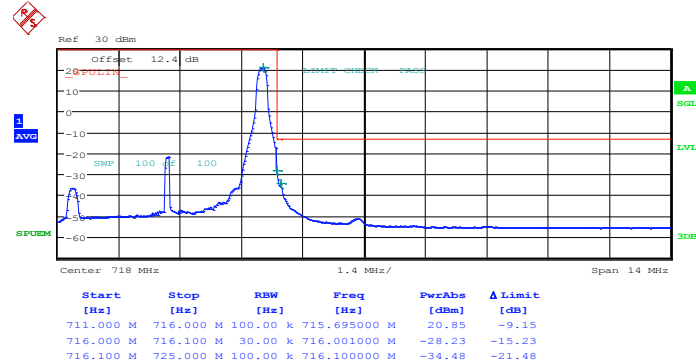
Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



Date: 27.MAY.2014 21:02:05

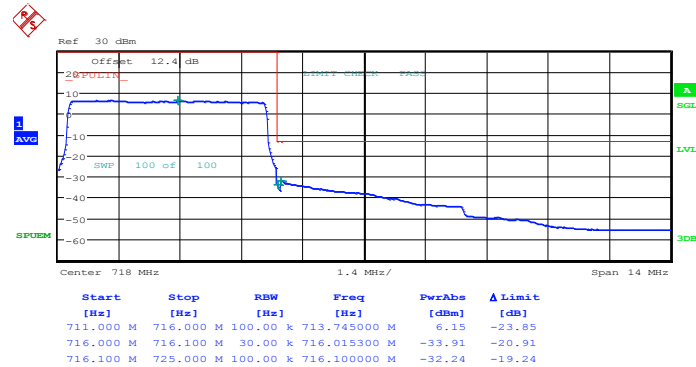


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 27.MAY.2014 21:13:49

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

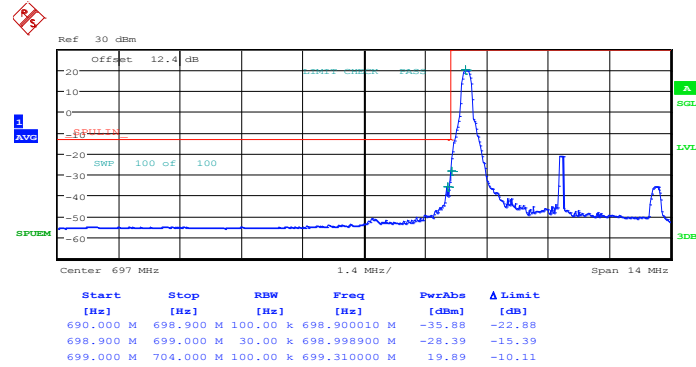


Date: 27.MAY.2014 21:12:04



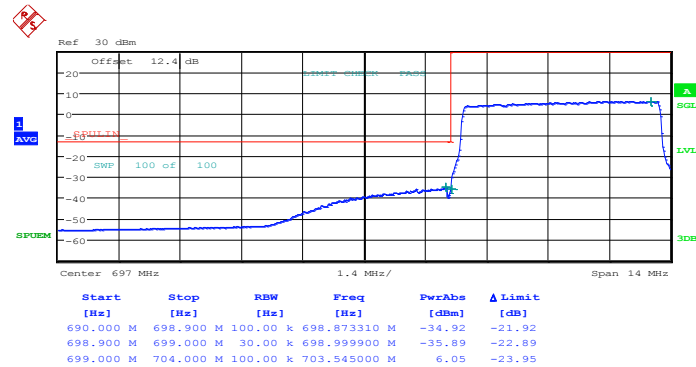
Band :	LTE Band 12	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 27.MAY.2014 21:03:56

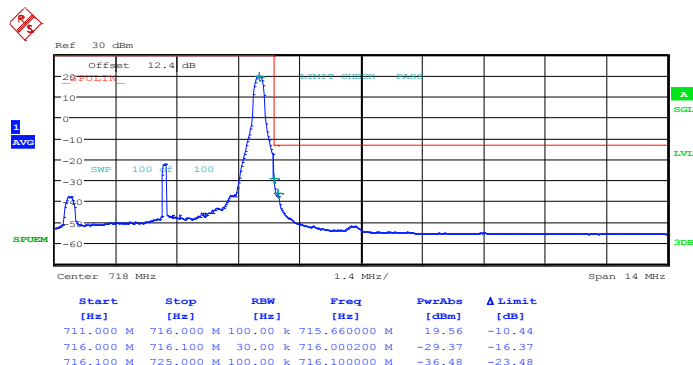
Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



Date: 27.MAY.2014 21:03:00

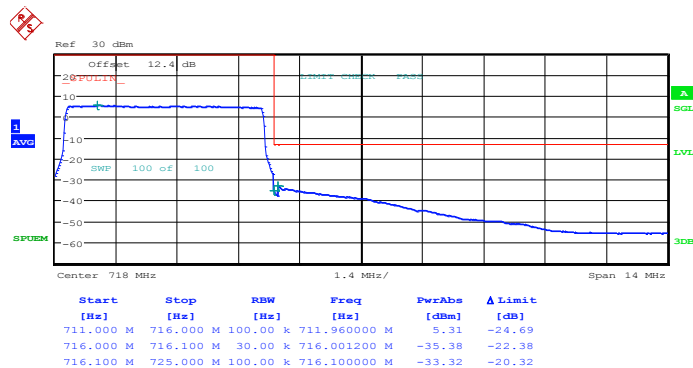


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Date: 27.MAY.2014 21:14:42

Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0

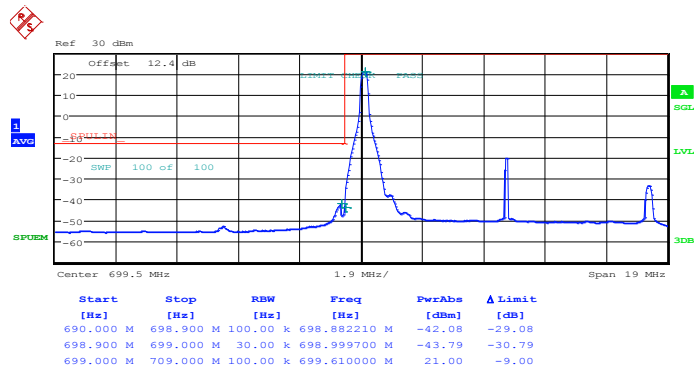


Date: 27.MAY.2014 21:12:56



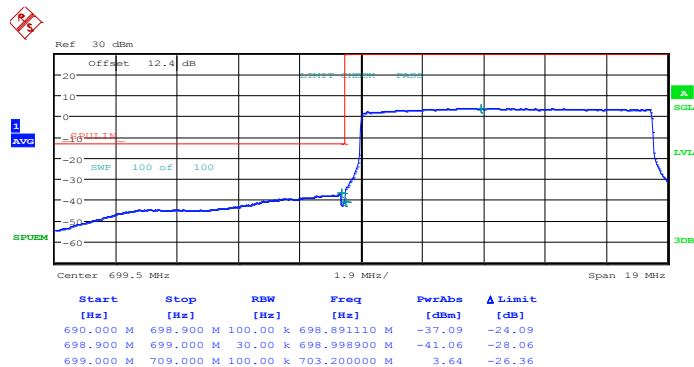
Band :	LTE Band 12	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



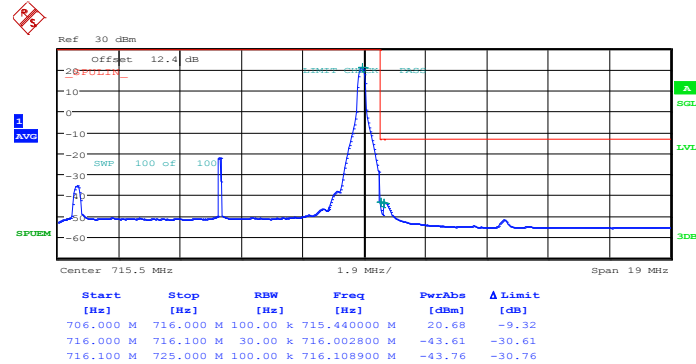
Date: 27.MAY.2014 21:40:11

Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



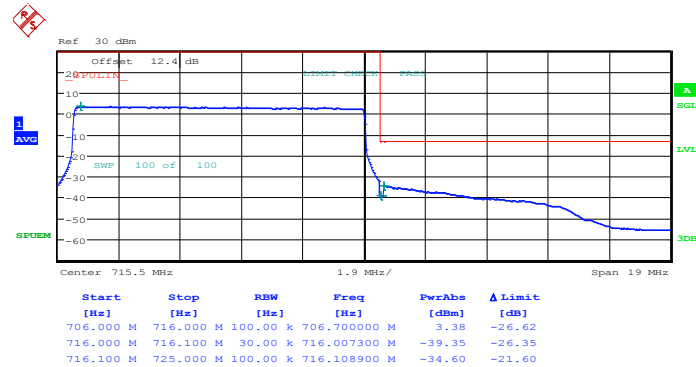
Date: 27.MAY.2014 21:52:06

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 27.MAY.2014 22:01:30

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

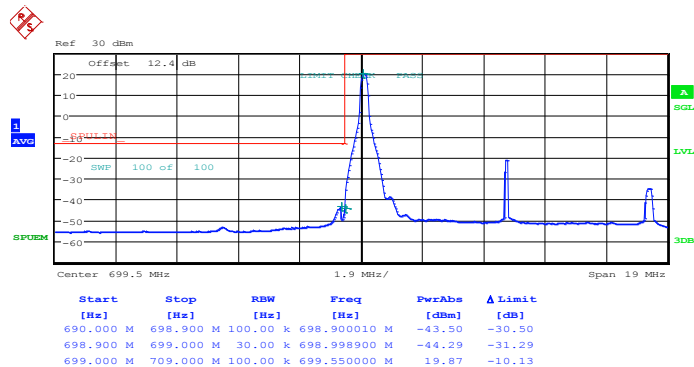


Date: 27.MAY.2014 21:54:40



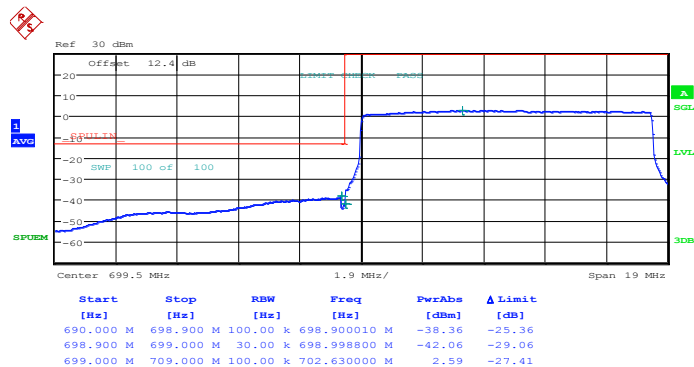
Band :	LTE Band 12	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Date: 27.MAY.2014 21:46:32

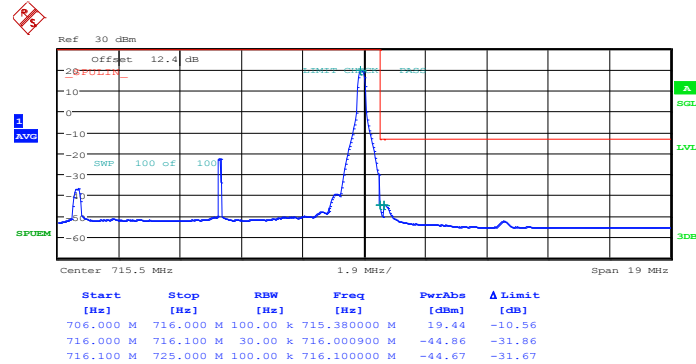
Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



Date: 27.MAY.2014 21:50:23

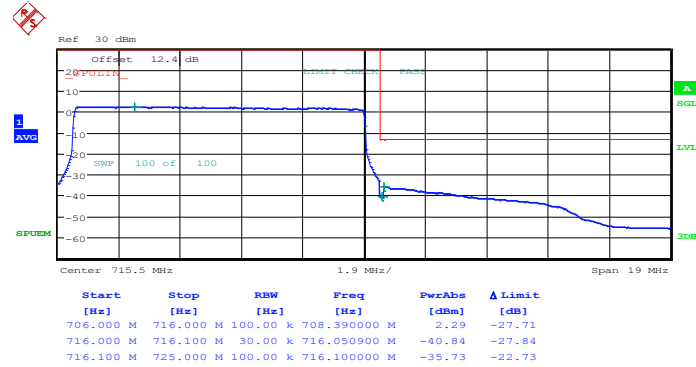


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



Date: 27.MAY.2014 21:59:58

Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0

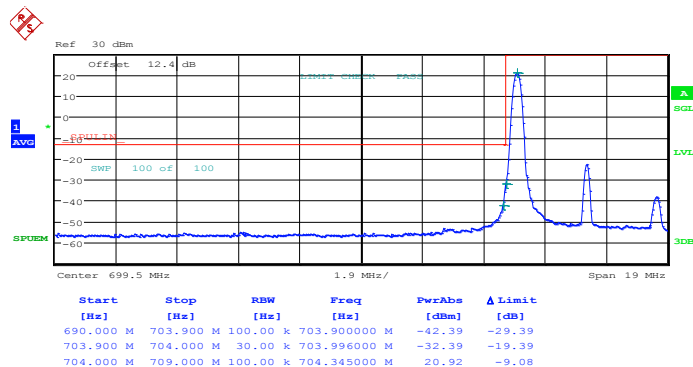


Date: 27.MAY.2014 21:57:21



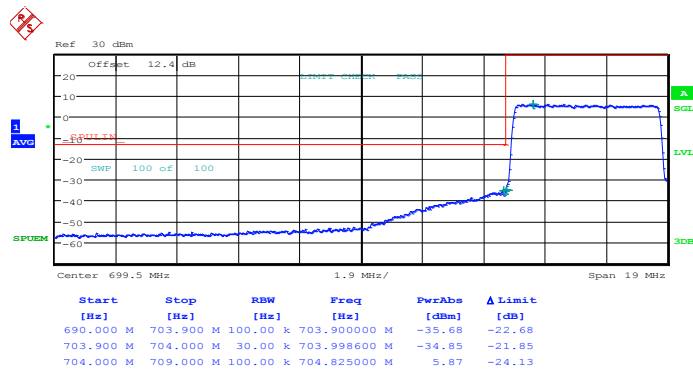
Band :	LTE Band 17	Band Width :	5MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



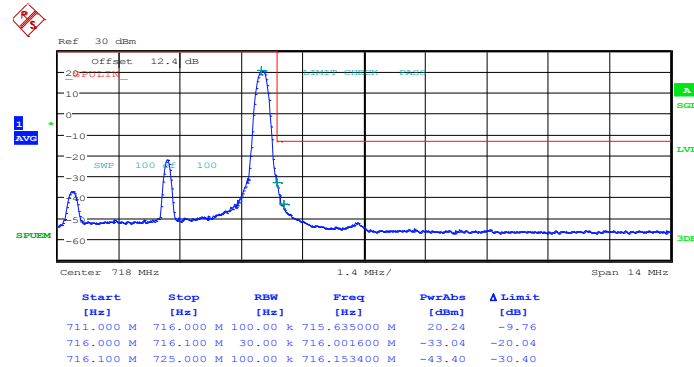
Date: 27.MAY.2014 22:30:32

Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



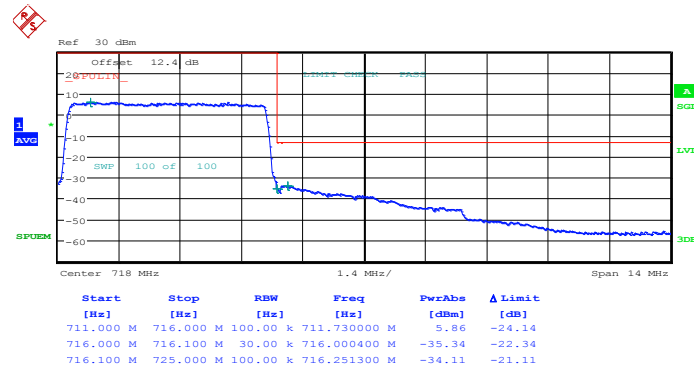
Date: 27.MAY.2014 22:32:07

Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



Date: 27.MAY.2014 22:40:03

Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0

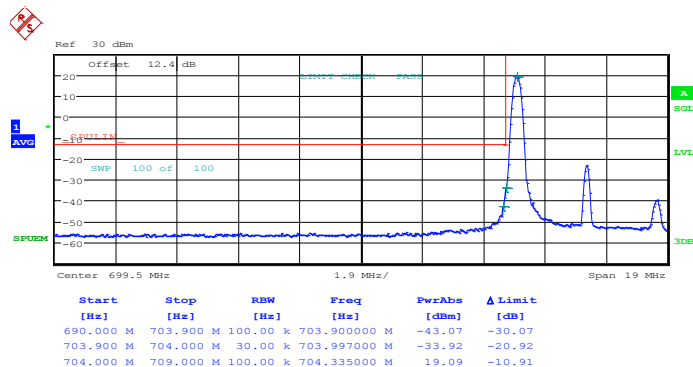


Date: 27.MAY.2014 22:41:38



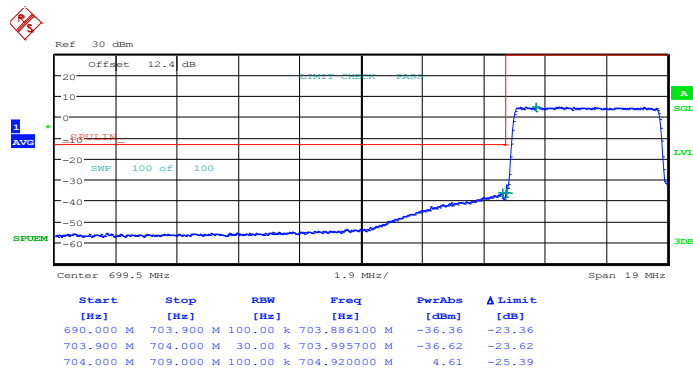
Band :	LTE Band 17	Band Width :	5MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Date: 27.MAY.2014 22:31:19

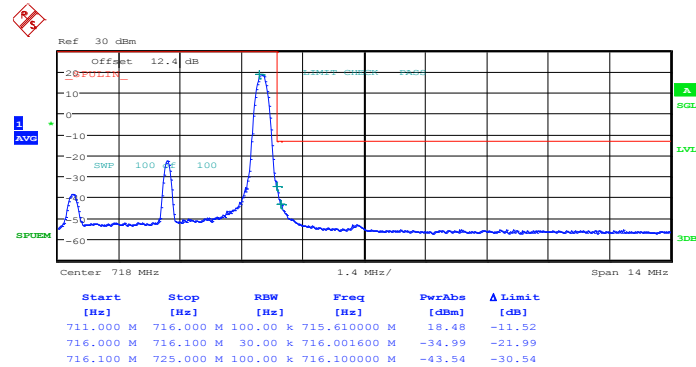
Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



Date: 27.MAY.2014 22:32:55

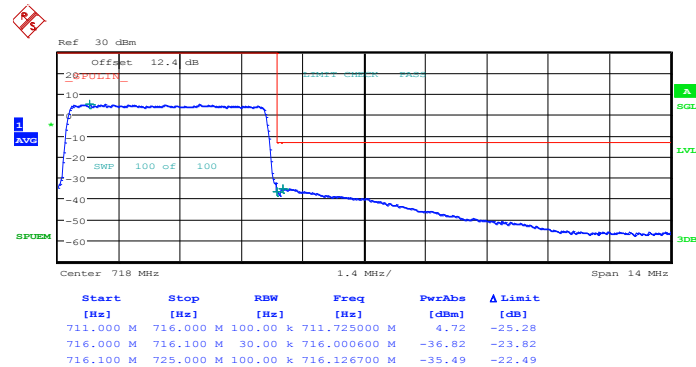


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



Date: 27.MAY.2014 22:40:51

Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0

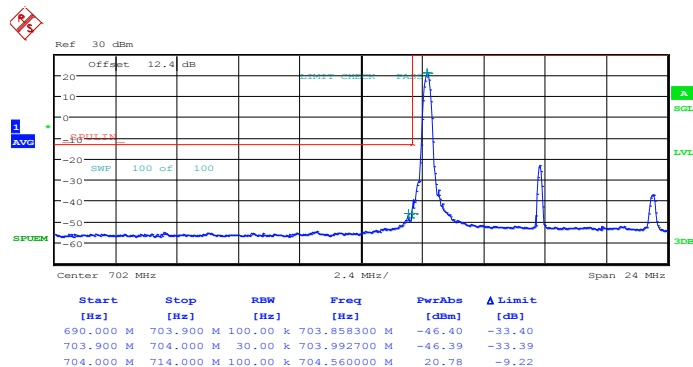


Date: 27.MAY.2014 22:42:26



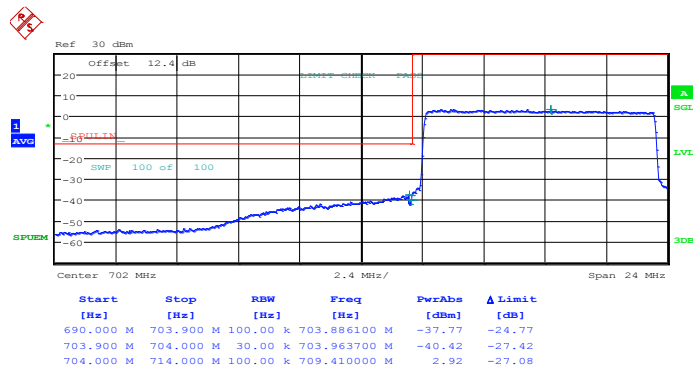
Band :	LTE Band 17	Band Width :	10MHz / QPSK
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Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Date: 27.MAY.2014 22:46:28

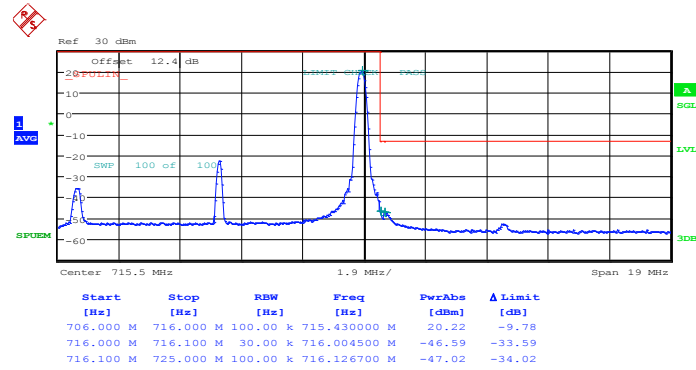
Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



Date: 27.MAY.2014 22:48:03

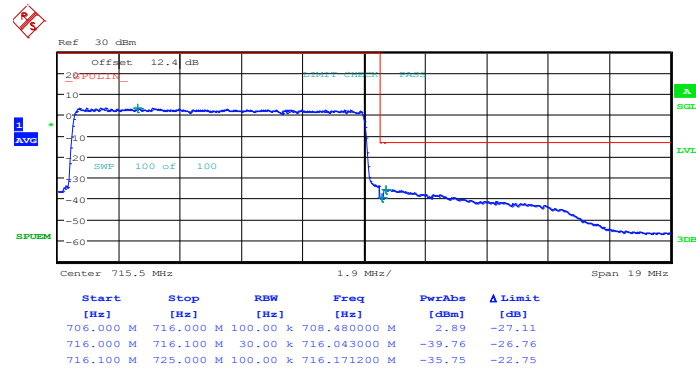


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



Date: 27.MAY.2014 22:55:58

Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

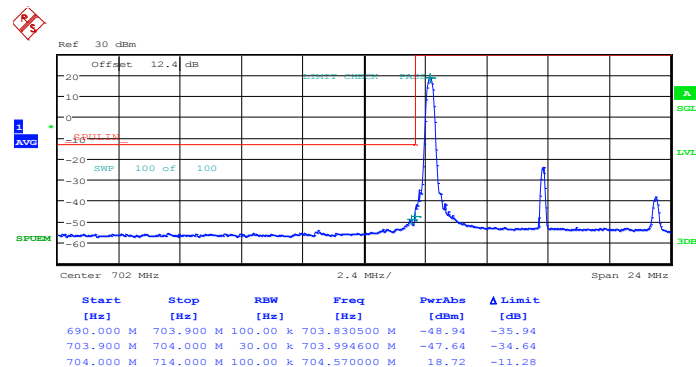


Date: 27.MAY.2014 22:57:34



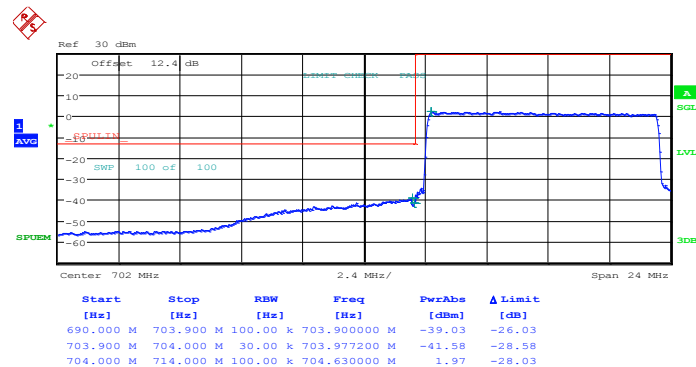
Band :	LTE Band 17	Band Width :	10MHz / 16QAM
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Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



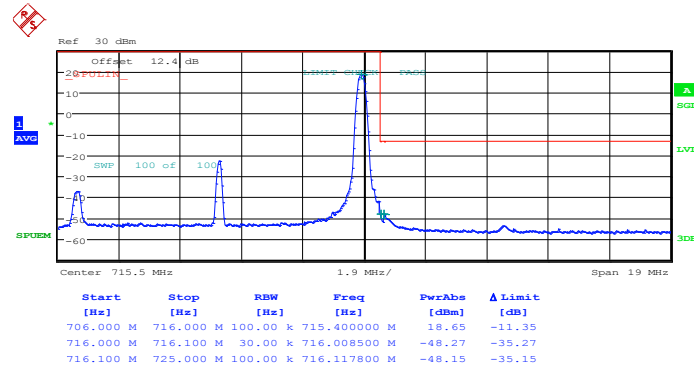
Date: 27.MAY.2014 22:47:16

Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



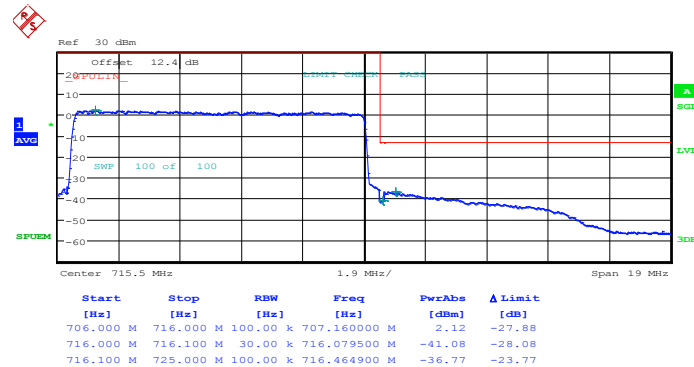
Date: 27.MAY.2014 22:48:51

Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



Date: 27.MAY.2014 22:56:46

Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



Date: 27.MAY.2014 22:58:22

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.

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

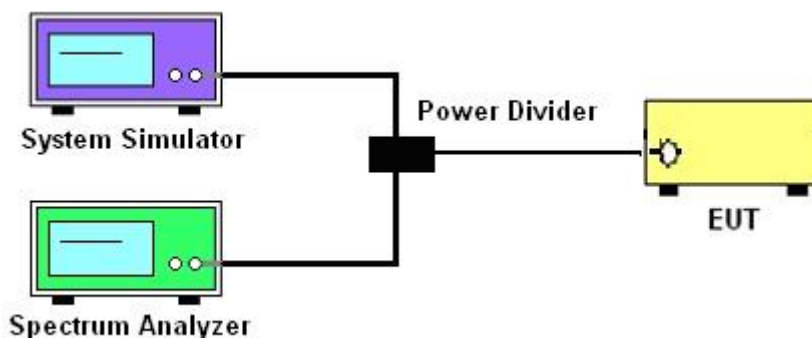
3.6.2 Measuring Instruments

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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13\text{dBm}$.

3.6.4 Test Setup

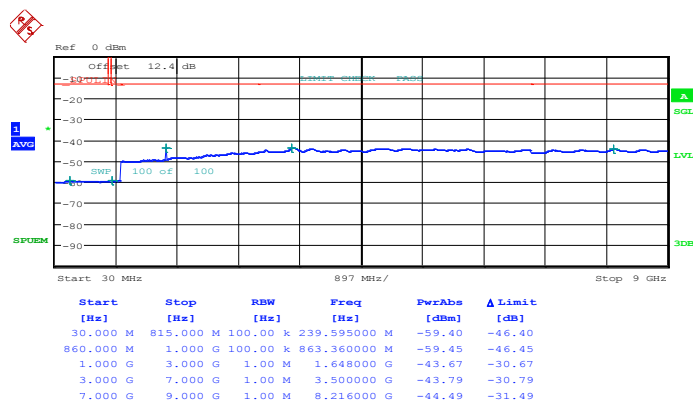




3.6.5 Test Result (Plots) of Conducted Spurious Emission

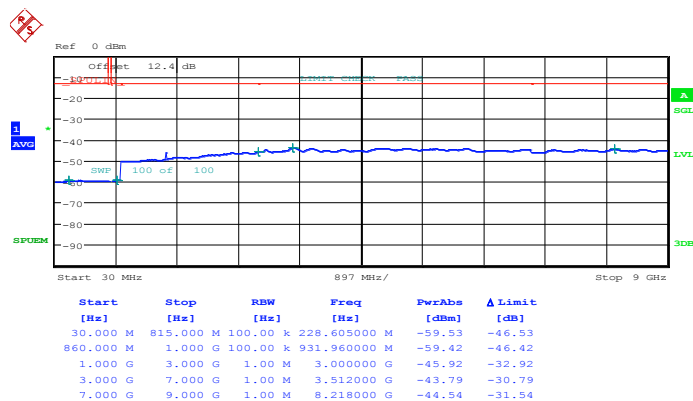
Band :	LTE Band 5	Channel :	CH20407 (Low)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:08:45

16QAM (RB Size 1, RB Offset 0)

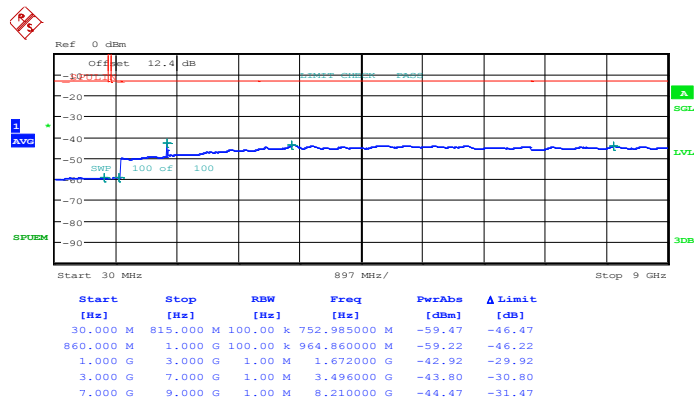


Date: 27.MAY.2014 20:09:46



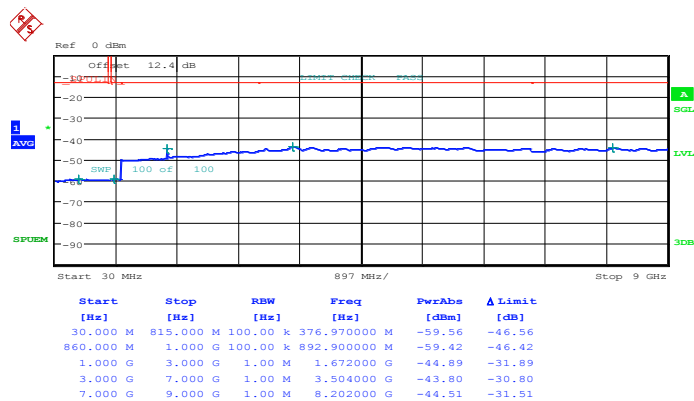
Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:11:56

16QAM (RB Size 1, RB Offset 0)

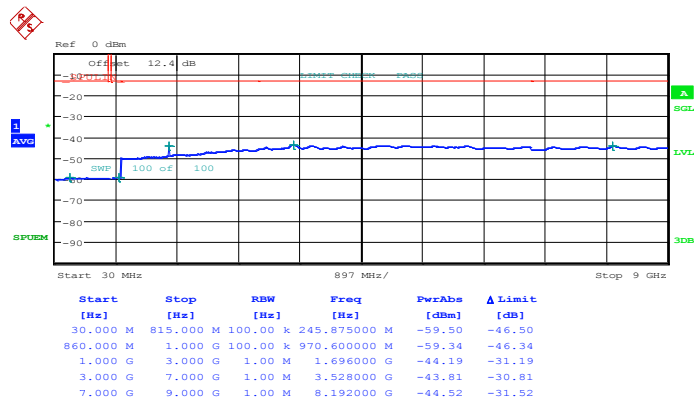


Date: 27.MAY.2014 20:12:56



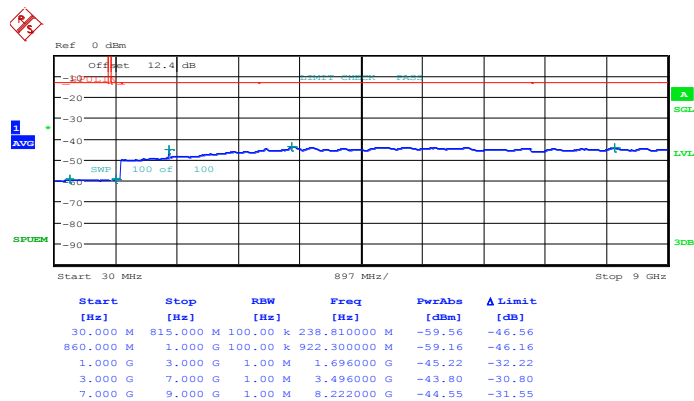
Band :	LTE Band 5	Channel :	CH20643 (High)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:18:18

16QAM (RB Size 1, RB Offset 0)

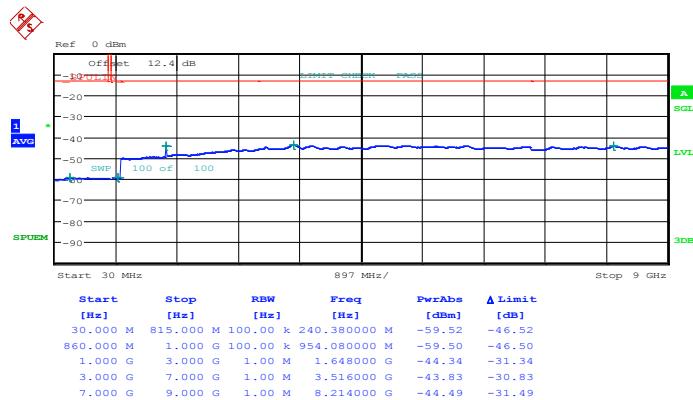


Date: 27.MAY.2014 20:19:19



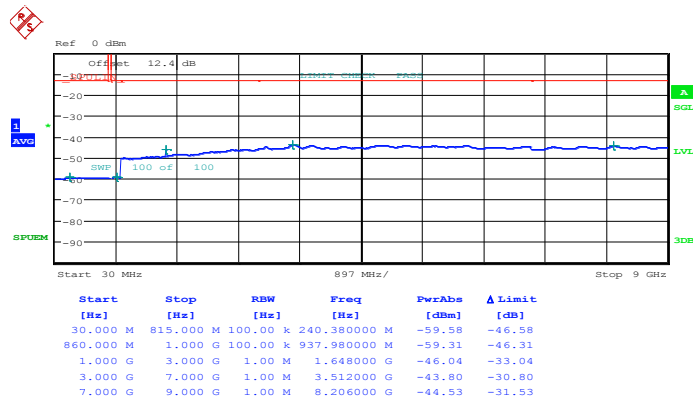
Band :	LTE Band 5	Channel :	CH20415 (Low)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 19:18:58

16QAM (RB Size 1, RB Offset 0)

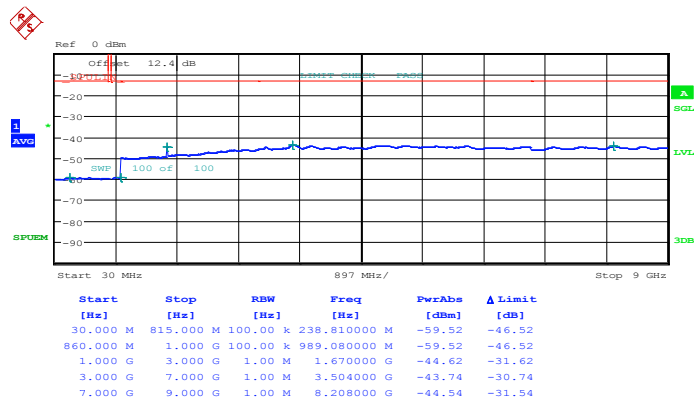


Date: 27.MAY.2014 19:19:59



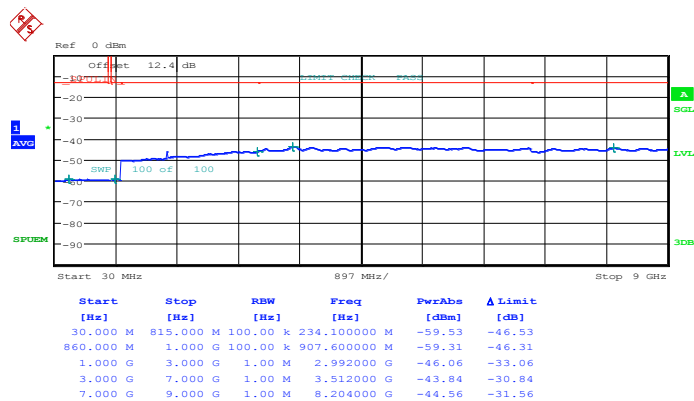
Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 19:22:09

16QAM (RB Size 1, RB Offset 0)

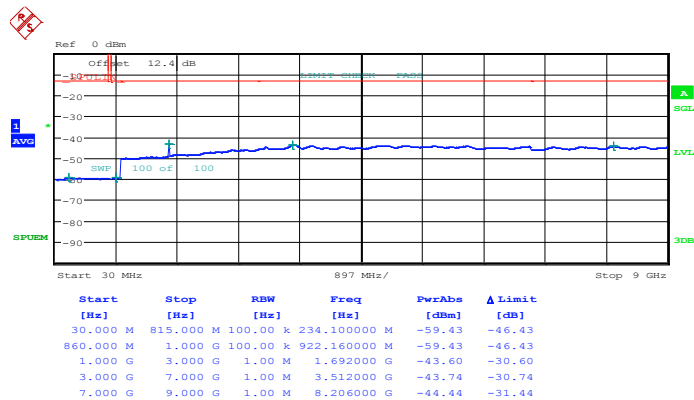


Date: 27.MAY.2014 19:23:10



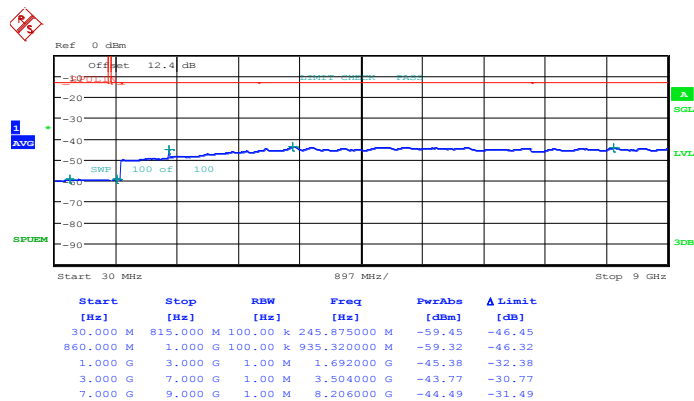
Band :	LTE Band 5	Channel :	CH20635 (High)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 19:28:30

16QAM (RB Size 1, RB Offset 0)

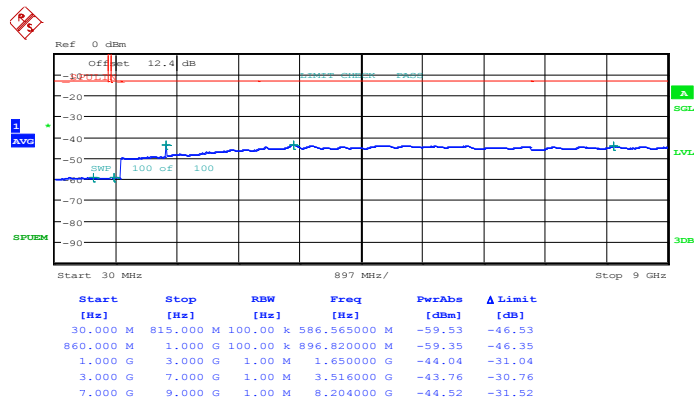


Date: 27.MAY.2014 19:29:30



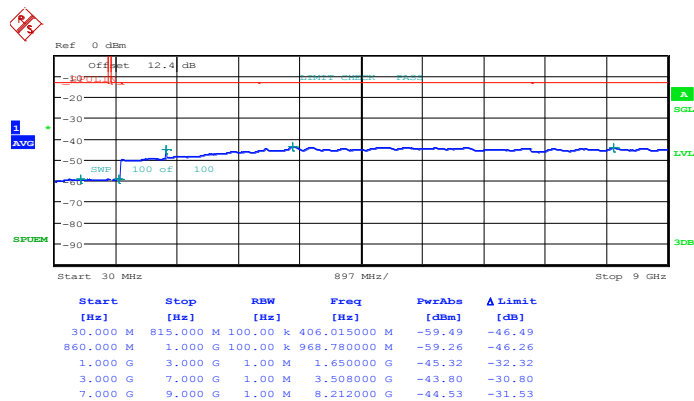
Band :	LTE Band 5	Channel :	CH20425 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 19:34:50

16QAM (RB Size 1, RB Offset 0)

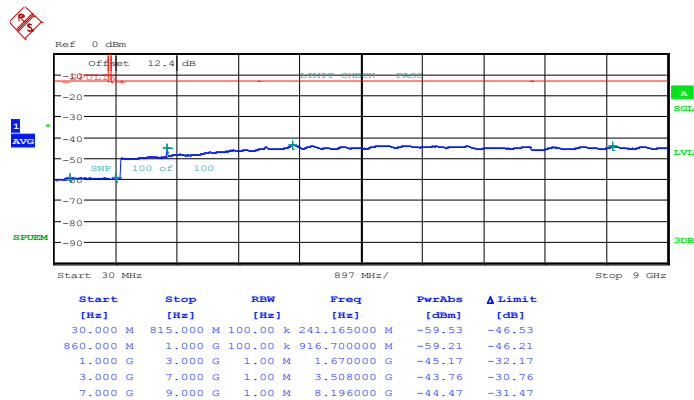


Date: 27.MAY.2014 19:35:51



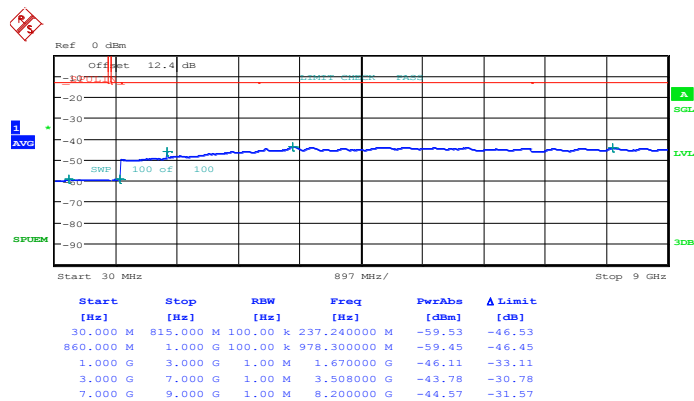
Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 19:38:01

16QAM (RB Size 1, RB Offset 0)

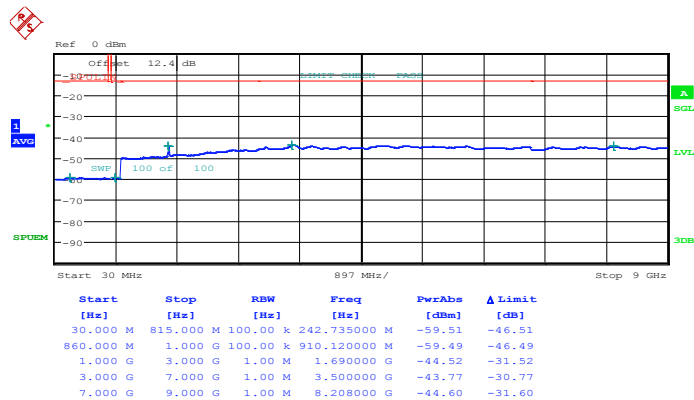


Date: 27.MAY.2014 19:39:02



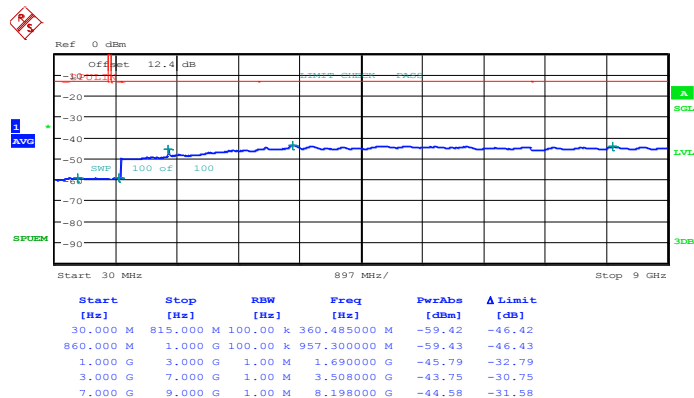
Band :	LTE Band 5	Channel :	CH20625 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 19:44:22

16QAM (RB Size 1, RB Offset 0)

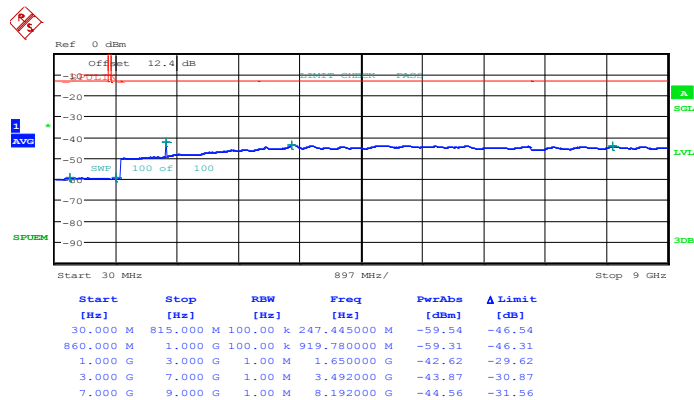


Date: 27.MAY.2014 19:45:23



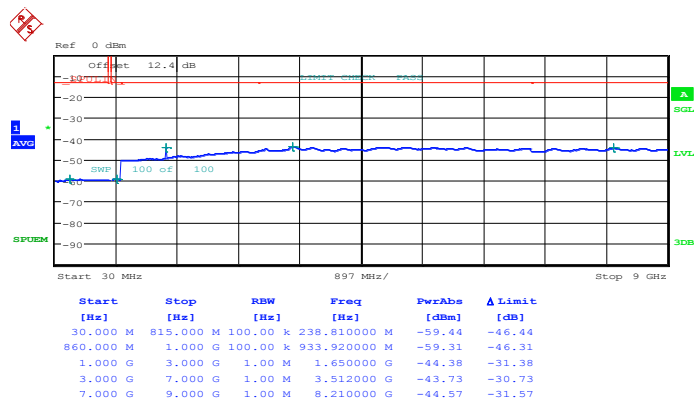
Band :	LTE Band 5	Channel :	CH20450 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 19:50:43

16QAM (RB Size 1, RB Offset 0)

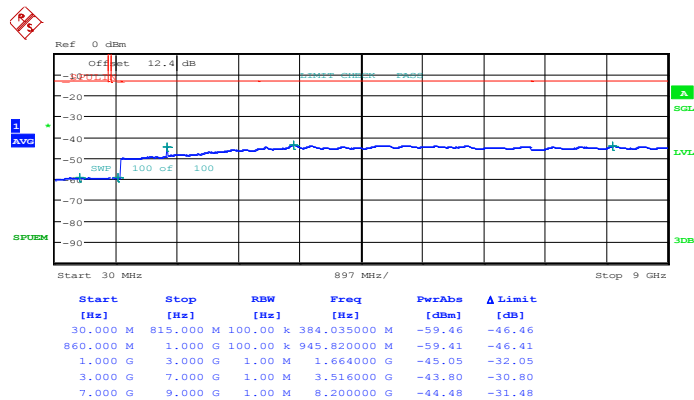


Date: 27.MAY.2014 19:51:44



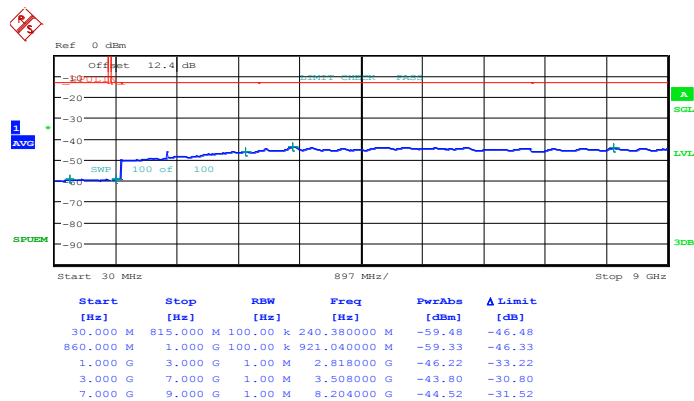
Band :	LTE Band 5	Channel :	CH20525 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 19:53:53

16QAM (RB Size 1, RB Offset 0)

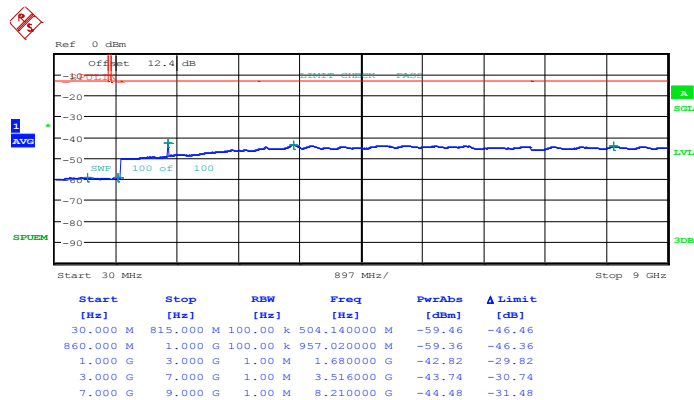


Date: 27.MAY.2014 19:54:54



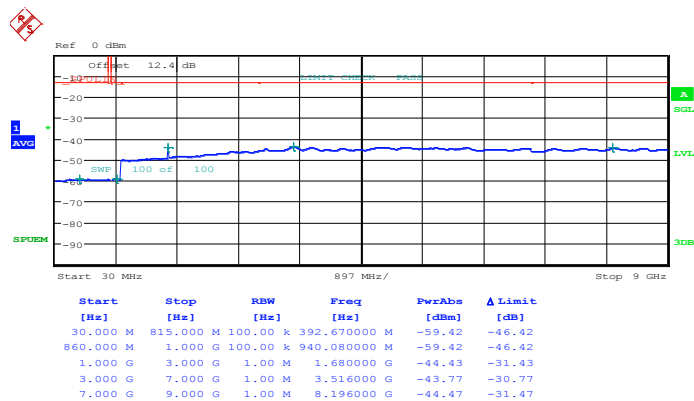
Band :	LTE Band 5	Channel :	CH20600 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:00:14

16QAM (RB Size 1, RB Offset 0)

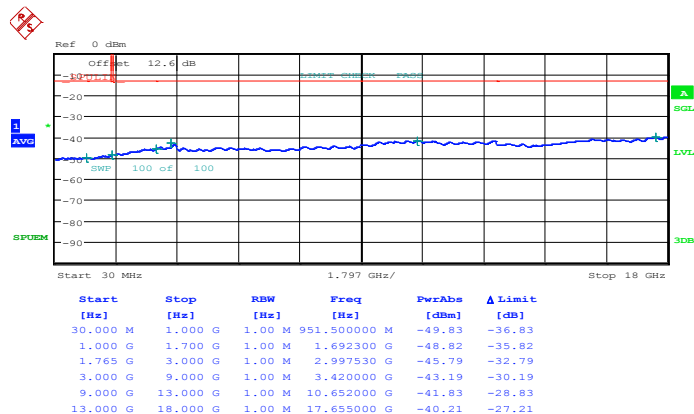


Date: 27.MAY.2014 20:01:15



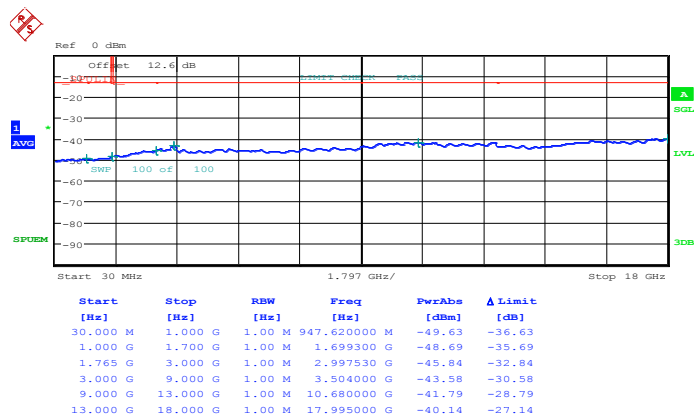
Band :	LTE Band 4	Channel :	CH19957 (Low)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 16:46:28

16QAM (RB Size 1, RB Offset 0)

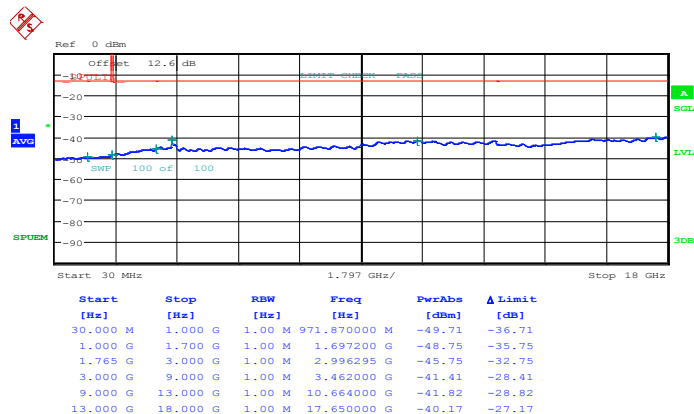


Date: 27.MAY.2014 16:47:29



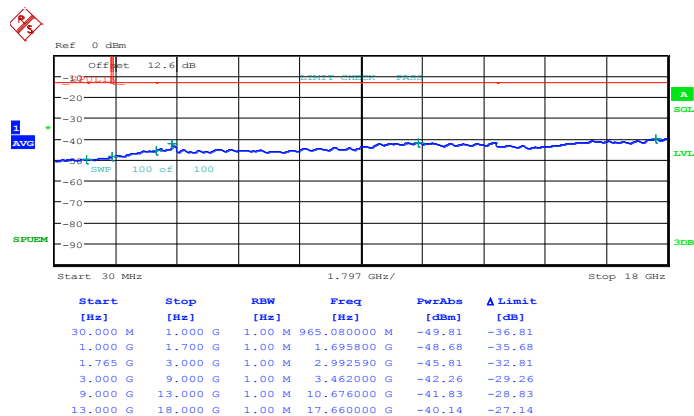
Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 16:49:38

16QAM (RB Size 1, RB Offset 0)

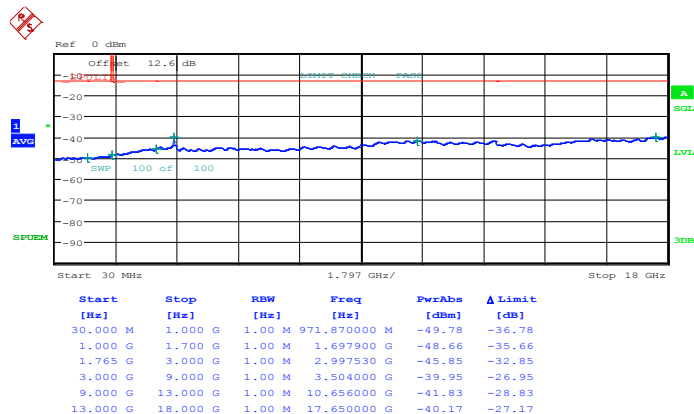


Date: 27.MAY.2014 16:50:39



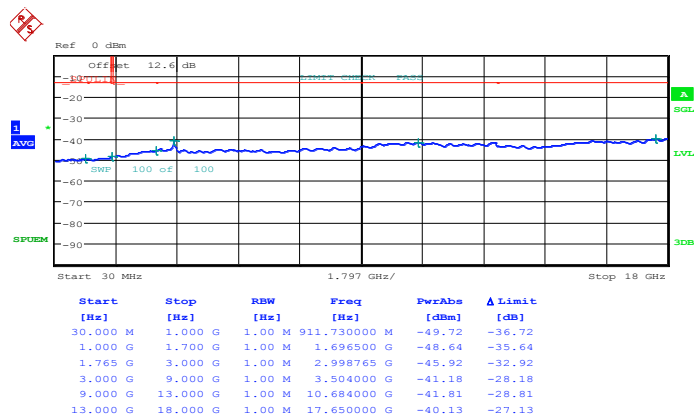
Band :	LTE Band 4	Channel :	CH20393 (High)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 16:55:59

16QAM (RB Size 1, RB Offset 0)

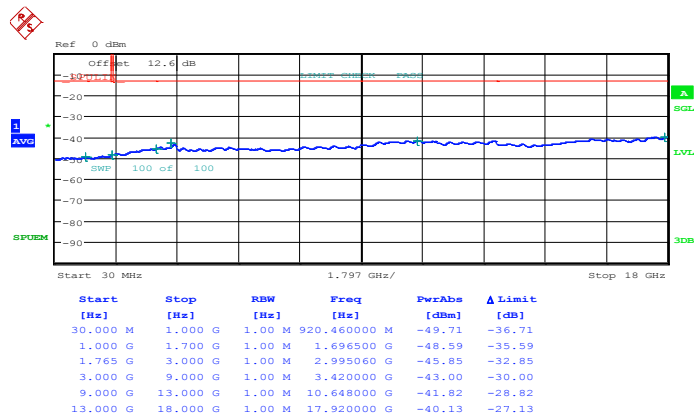


Date: 27.MAY.2014 16:56:59



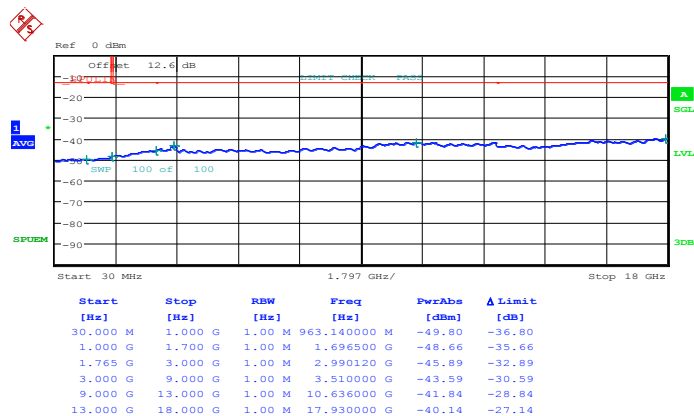
Band :	LTE Band 4	Channel :	CH19965 (Low)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:04:33

16QAM (RB Size 1, RB Offset 0)

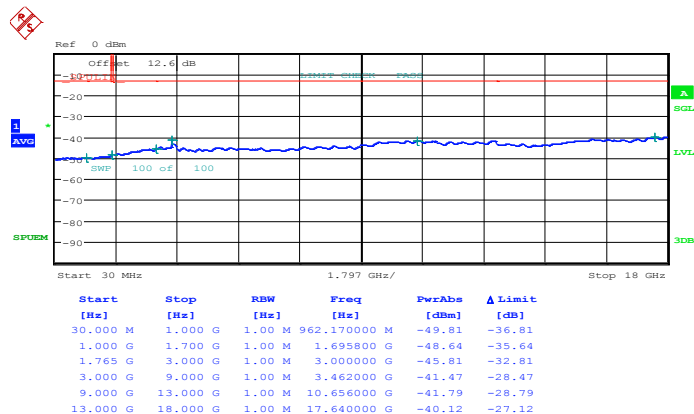


Date: 27.MAY.2014 17:05:34



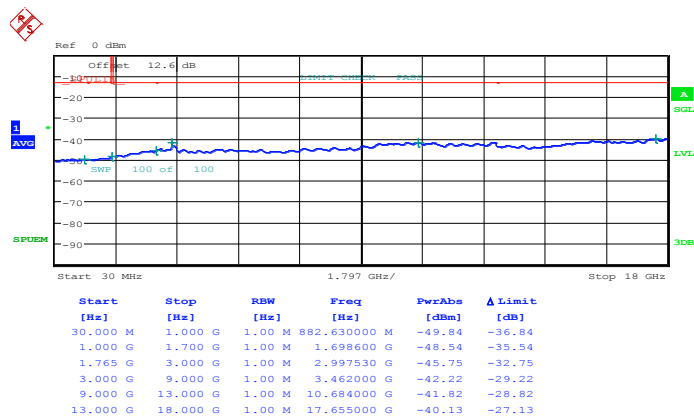
Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:07:44

16QAM (RB Size 1, RB Offset 0)

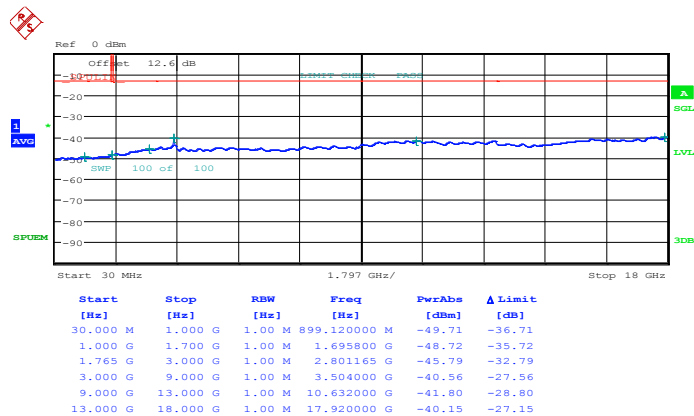


Date: 27.MAY.2014 17:08:45



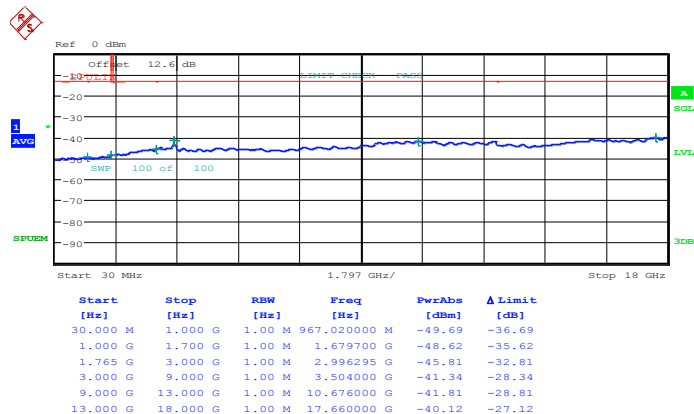
Band :	LTE Band 4	Channel :	CH20385 (High)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:14:06

16QAM (RB Size 1, RB Offset 0)

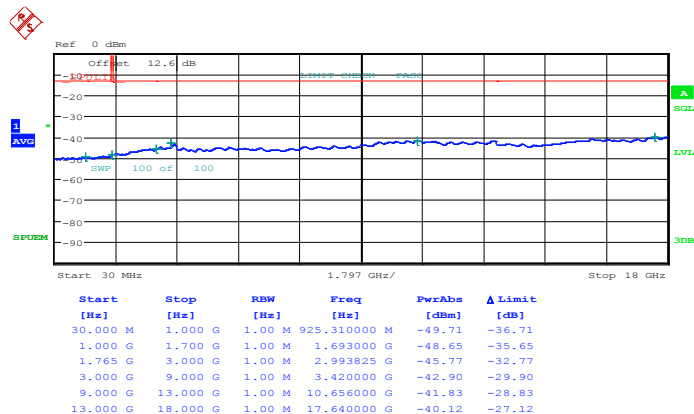


Date: 27.MAY.2014 17:15:06



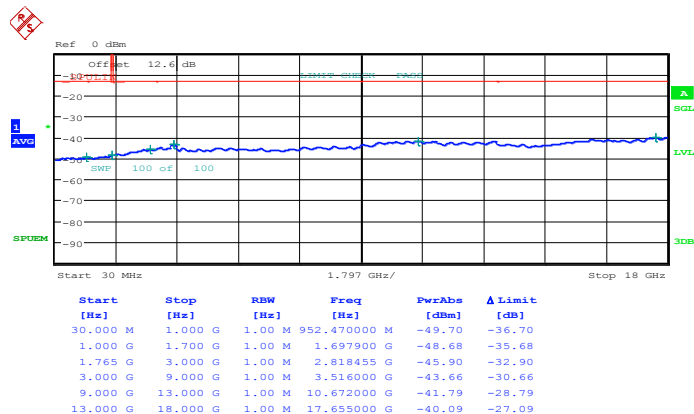
Band :	LTE Band 4	Channel :	CH19975 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:20:27

16QAM (RB Size 1, RB Offset 0)

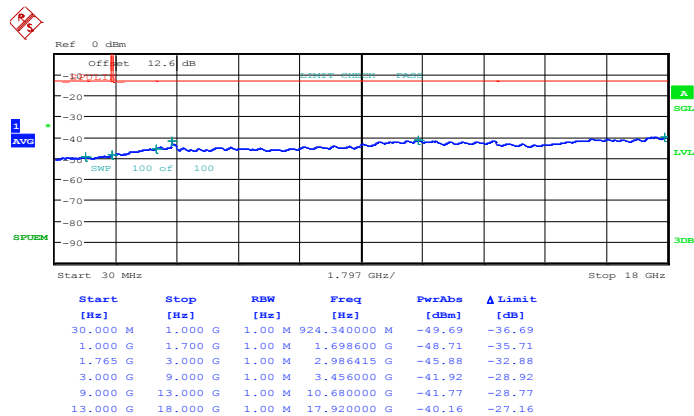


Date: 27.MAY.2014 17:21:28



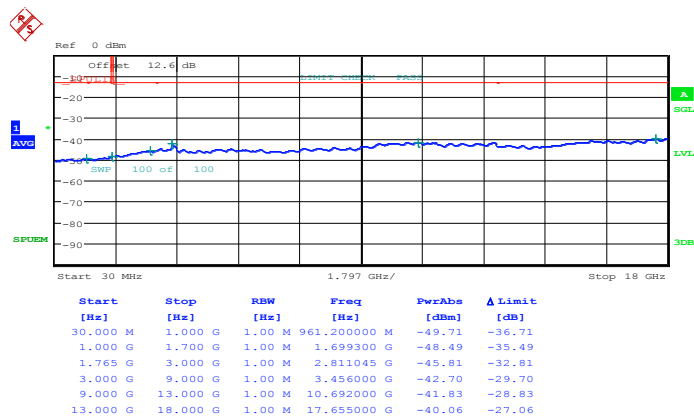
Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:23:38

16QAM (RB Size 1, RB Offset 0)

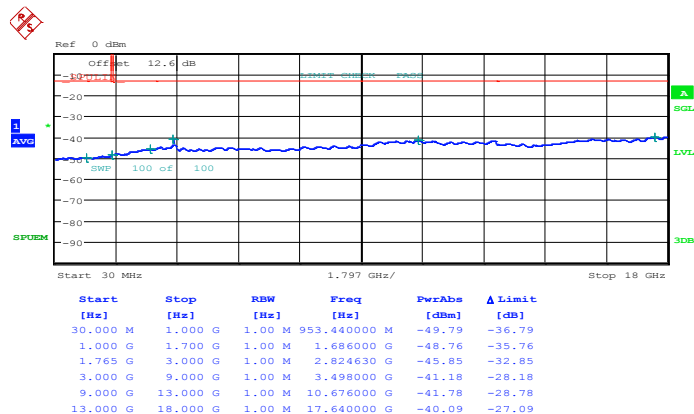


Date: 27.MAY.2014 17:24:39



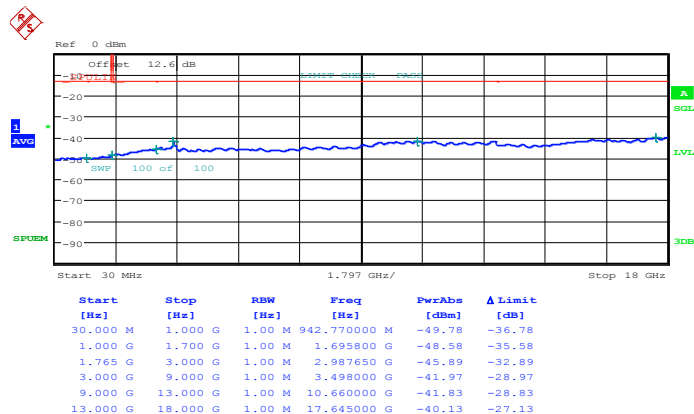
Band :	LTE Band 4	Channel :	CH20375 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:29:59

16QAM (RB Size 1, RB Offset 0)

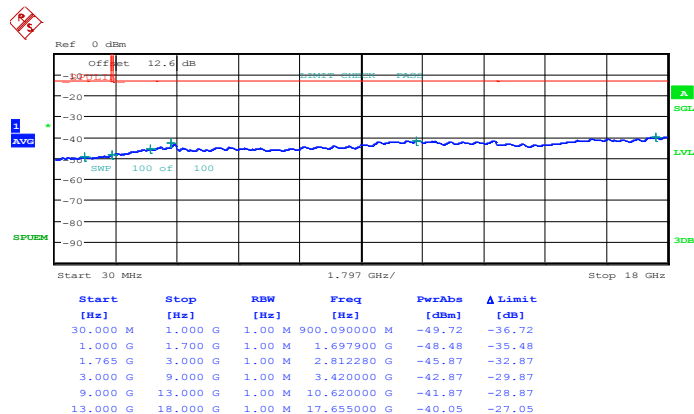


Date: 27.MAY.2014 17:30:59



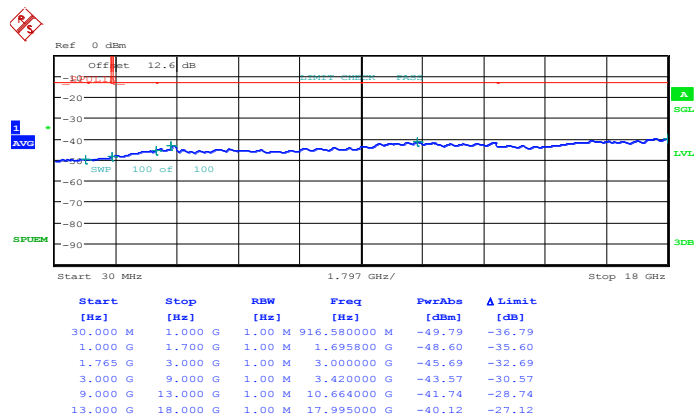
Band :	LTE Band 4	Channel :	CH20000 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:36:19

16QAM (RB Size 1, RB Offset 0)

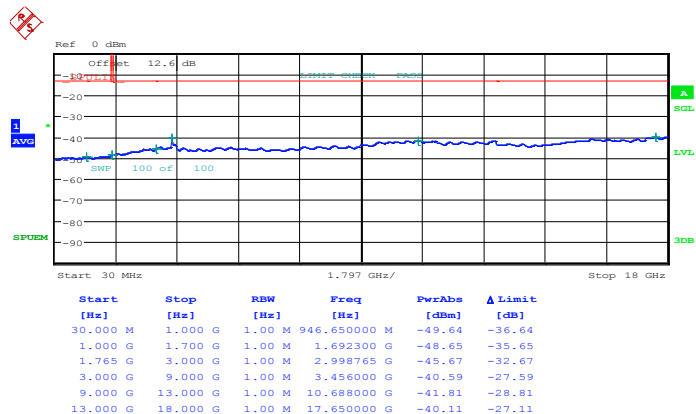


Date: 27.MAY.2014 17:37:19



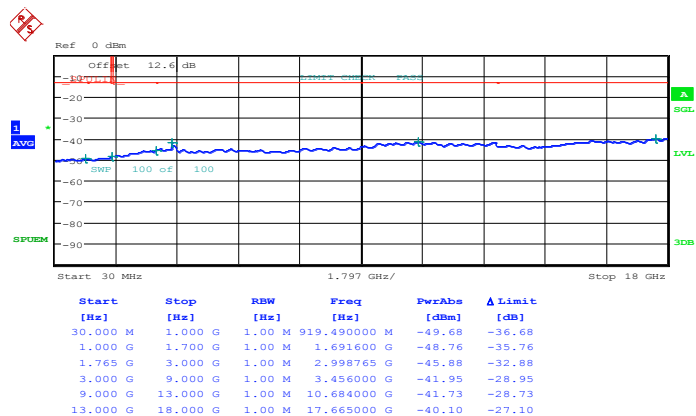
Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:39:29

16QAM (RB Size 1, RB Offset 0)

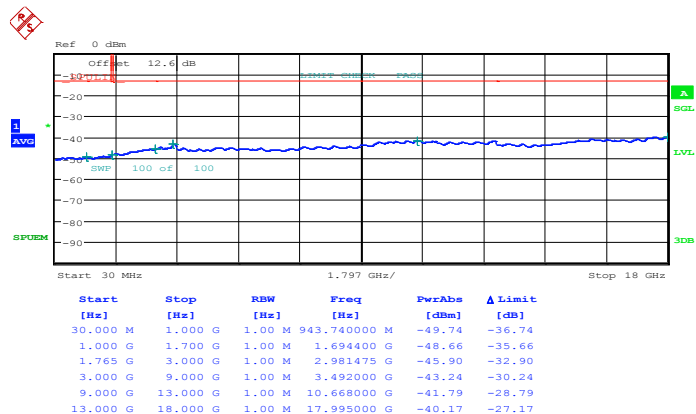


Date: 27.MAY.2014 17:40:29



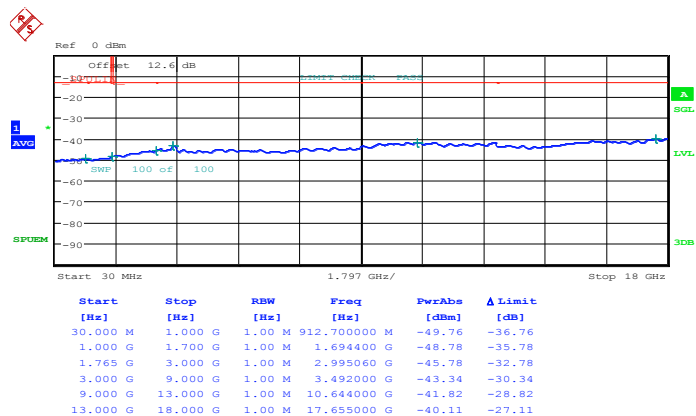
Band :	LTE Band 4	Channel :	CH20350 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:45:49

16QAM (RB Size 1, RB Offset 0)

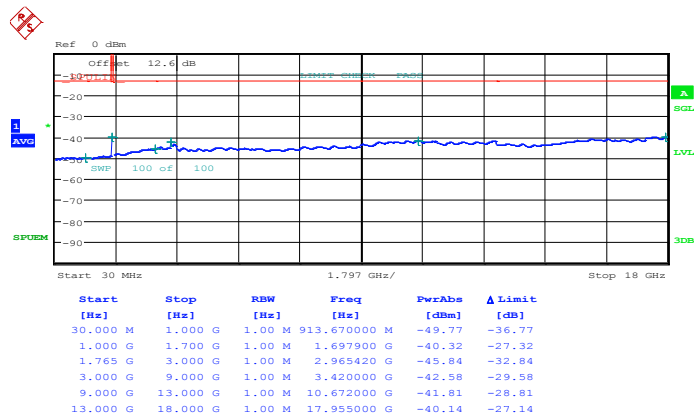


Date: 27.MAY.2014 17:46:50



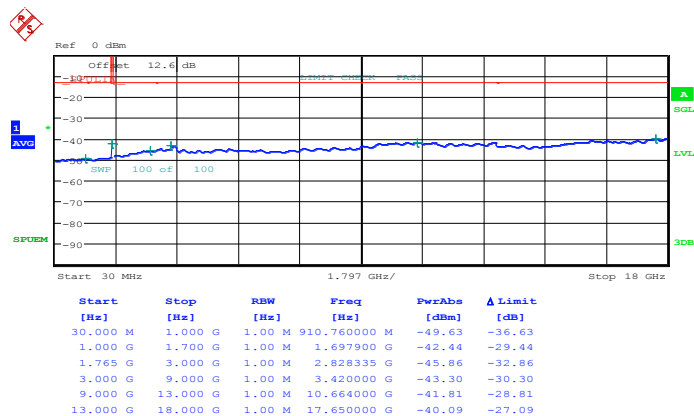
Band :	LTE Band 4	Channel :	CH20025 (Low)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:52:09

16QAM (RB Size 1, RB Offset 0)

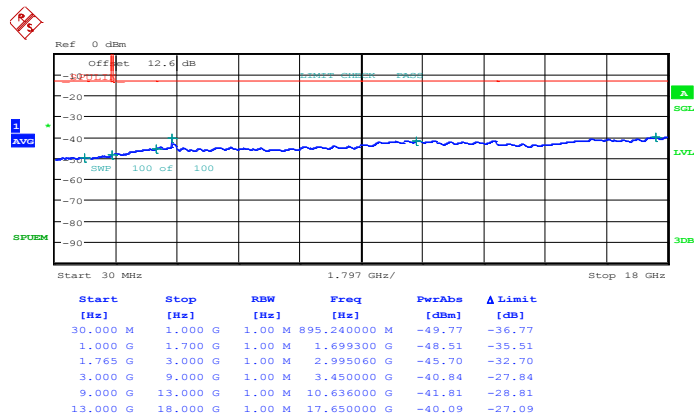


Date: 27.MAY.2014 17:53:10



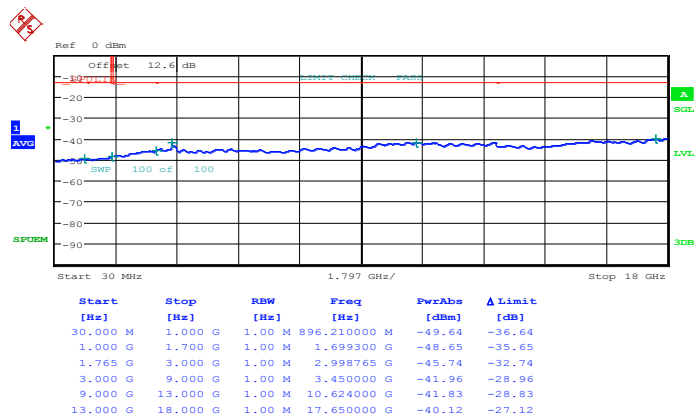
Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 17:55:19

16QAM (RB Size 1, RB Offset 0)

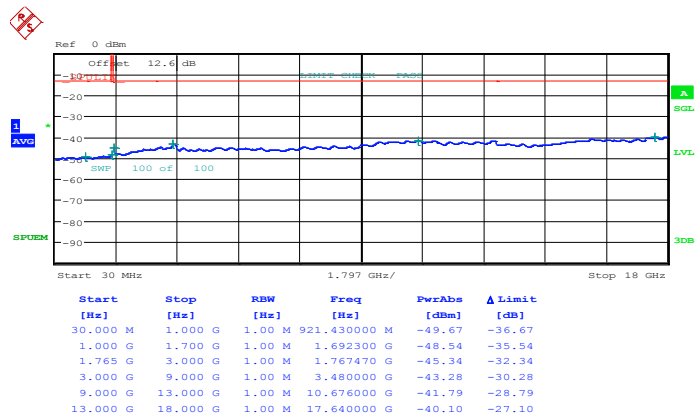


Date: 27.MAY.2014 17:56:20



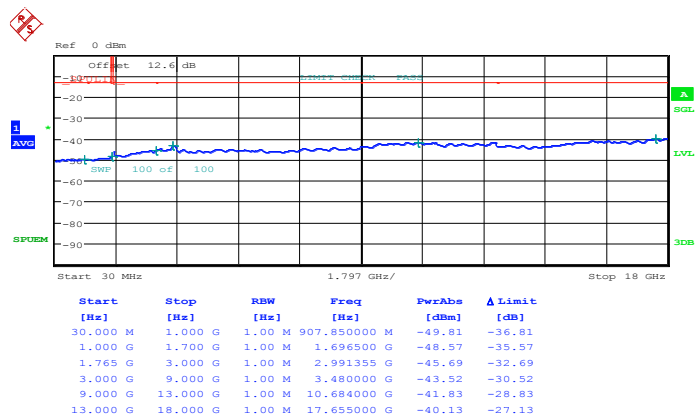
Band :	LTE Band 4	Channel :	CH20325 (High)
Band Width :	15MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 18:01:40

16QAM (RB Size 1, RB Offset 0)

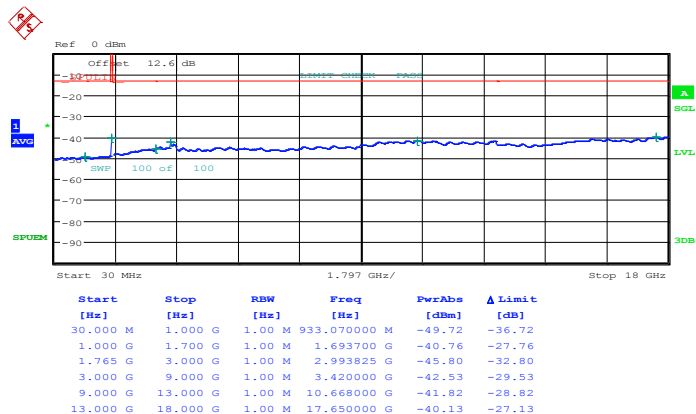


Date: 27.MAY.2014 18:02:40



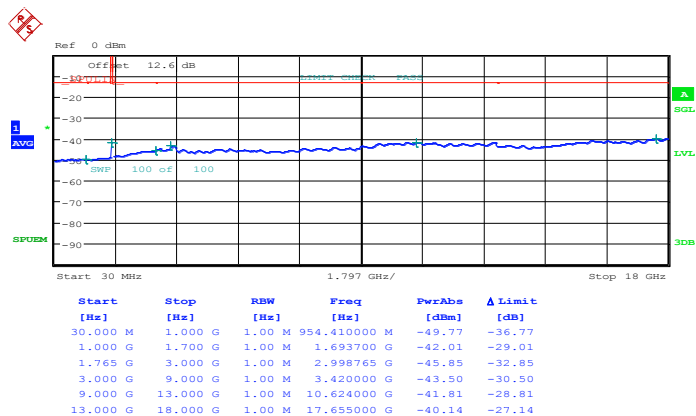
Band :	LTE Band 4	Channel :	CH20050 (Low)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 18:08:00

16QAM (RB Size 1, RB Offset 0)

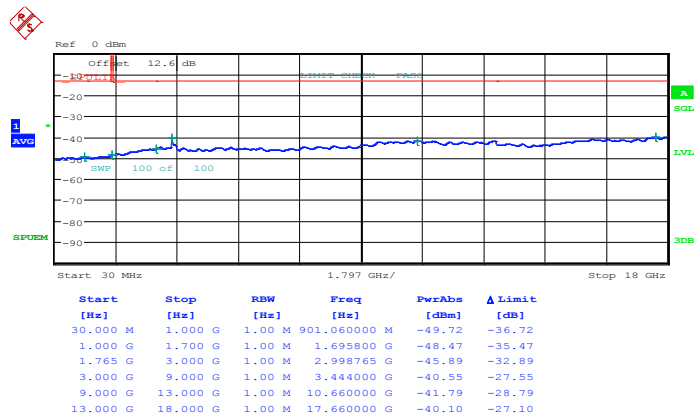


Date: 27.MAY.2014 18:09:00



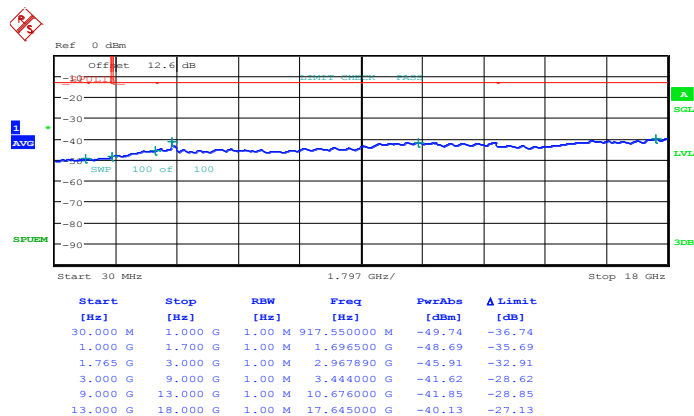
Band :	LTE Band 4	Channel :	CH20175 (Middle)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 18:11:10

16QAM (RB Size 1, RB Offset 0)

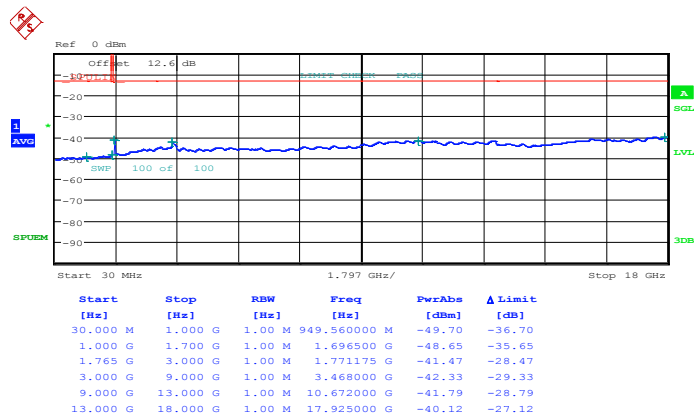


Date: 27.MAY.2014 18:12:10



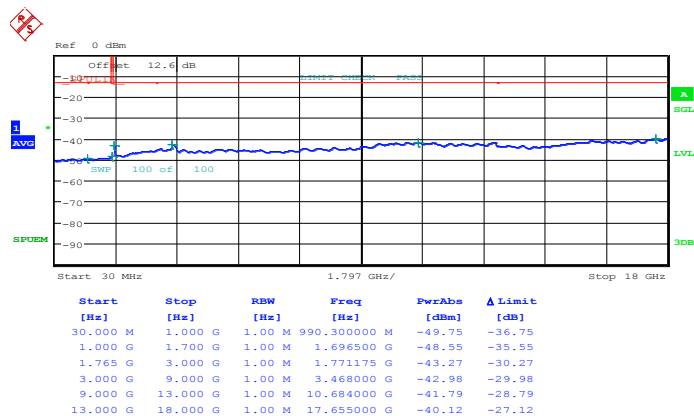
Band :	LTE Band 4	Channel :	CH20300 (High)
Band Width :	20MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 18:17:30

16QAM (RB Size 1, RB Offset 0)

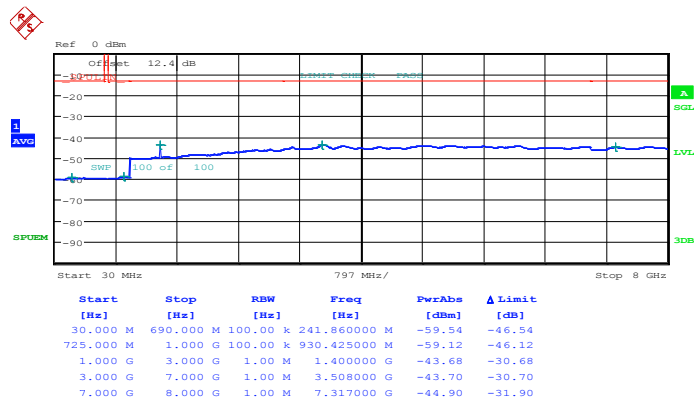


Date: 27.MAY.2014 18:18:31



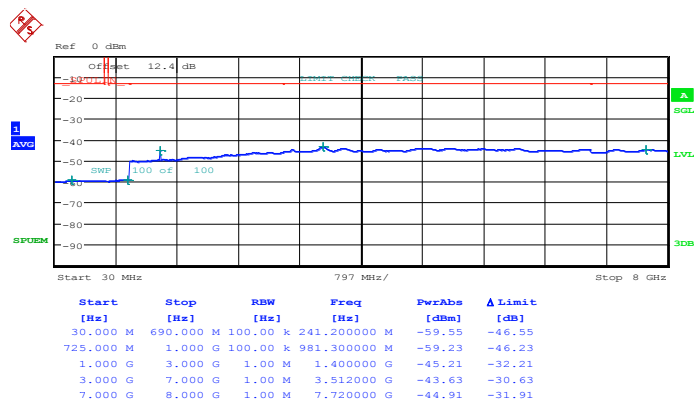
Band :	LTE Band 12	Channel :	CH23017 (Low)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:27:34

16QAM (RB Size 1, RB Offset 0)

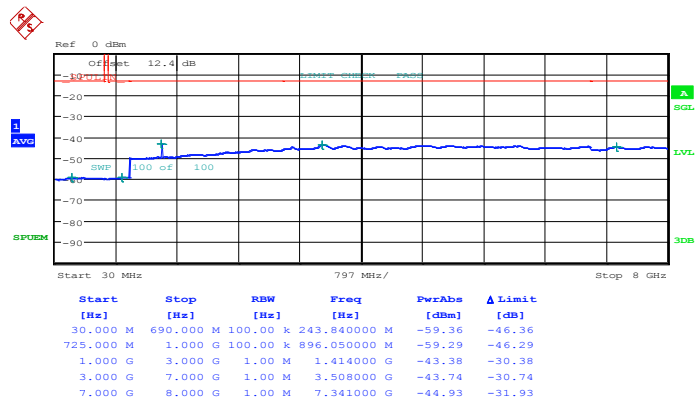


Date: 27.MAY.2014 20:28:35



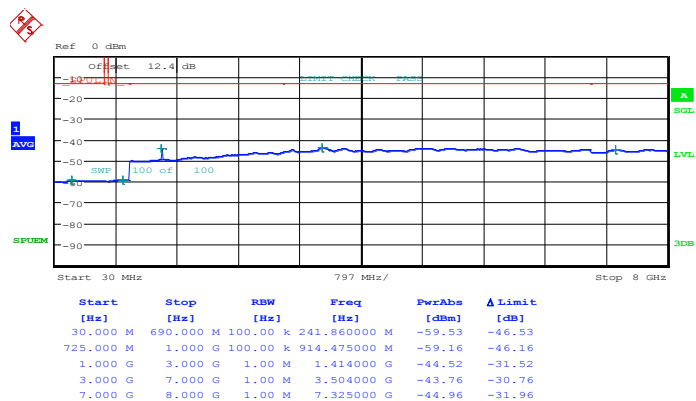
Band :	LTE Band 12	Channel :	CH23095 (Middle)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:31:45

16QAM (RB Size 1, RB Offset 0)

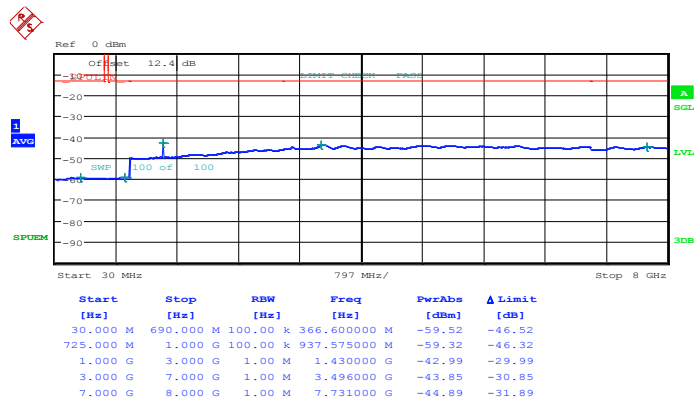


Date: 27.MAY.2014 20:30:45



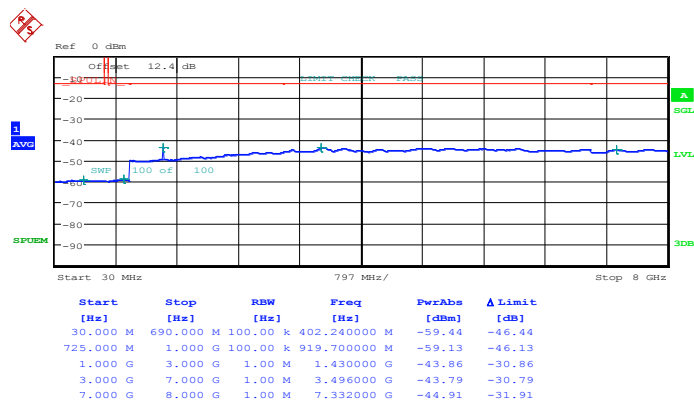
Band :	LTE Band 12	Channel :	CH23173 (High)
Band Width :	1.4MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:37:06

16QAM (RB Size 1, RB Offset 0)

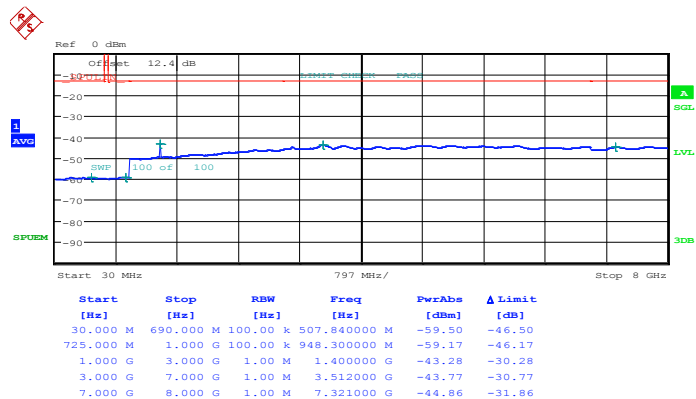


Date: 27.MAY.2014 20:38:07



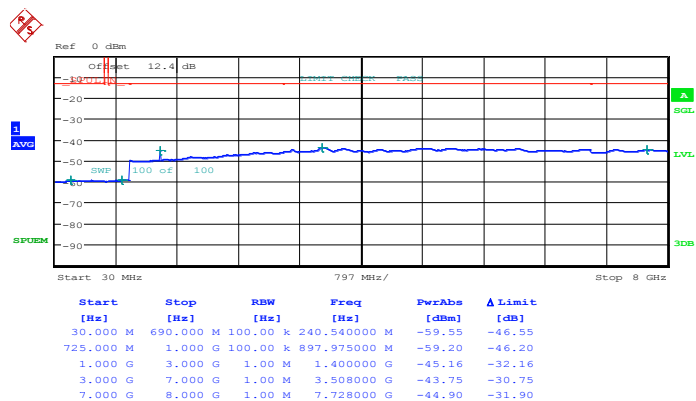
Band :	LTE Band 12	Channel :	CH23025 (Low)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:46:29

16QAM (RB Size 1, RB Offset 0)

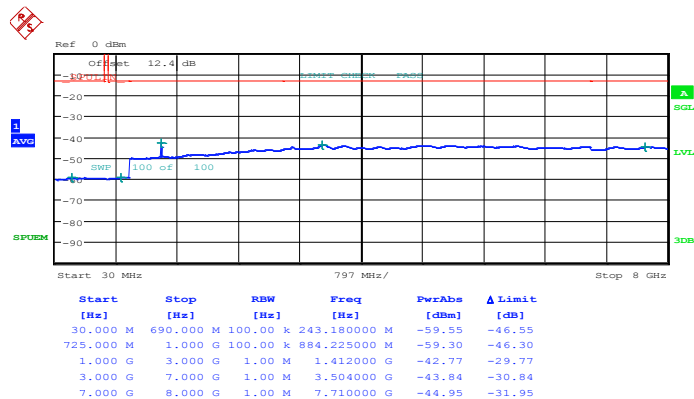


Date: 27.MAY.2014 20:47:30



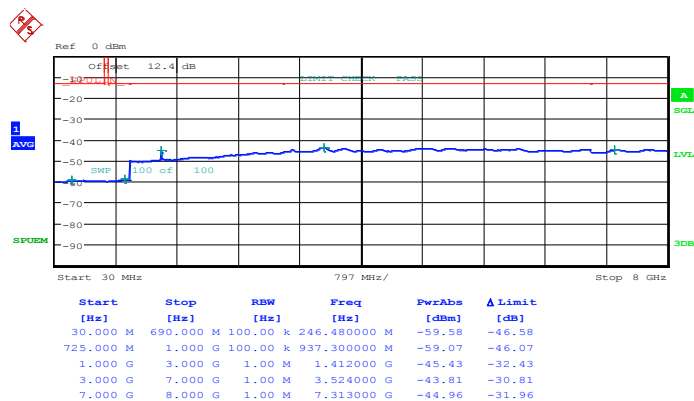
Band :	LTE Band 12	Channel :	CH23095 (Middle)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:53:32

16QAM (RB Size 1, RB Offset 0)

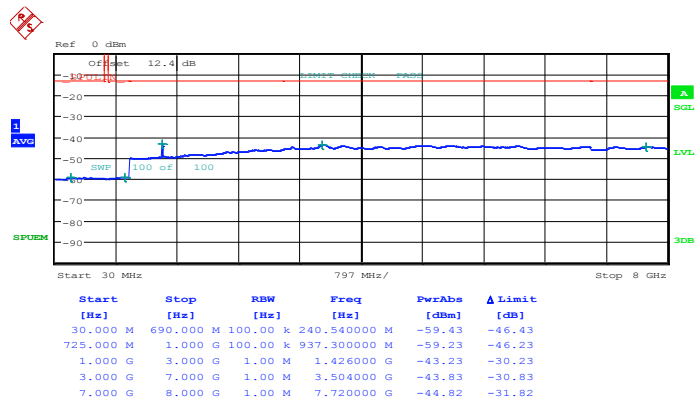


Date: 27.MAY.2014 20:52:31



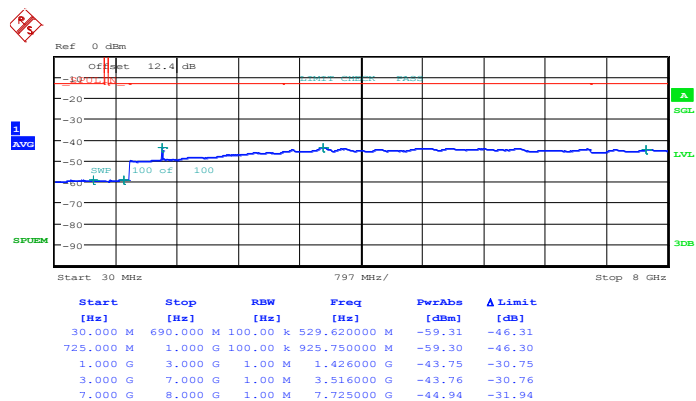
Band :	LTE Band 12	Channel :	CH23165 (High)
Band Width :	3MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 20:58:56

16QAM (RB Size 1, RB Offset 0)

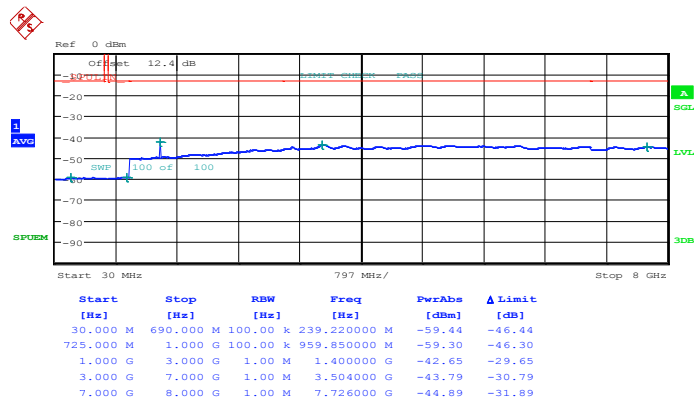


Date: 27.MAY.2014 20:59:57



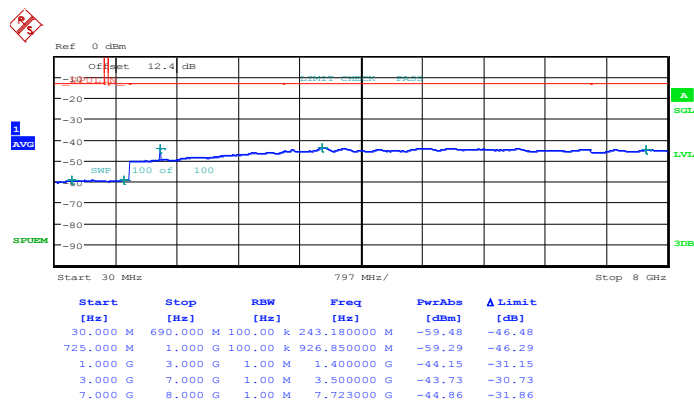
Band :	LTE Band 12	Channel :	CH23035 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 21:05:51

16QAM (RB Size 1, RB Offset 0)

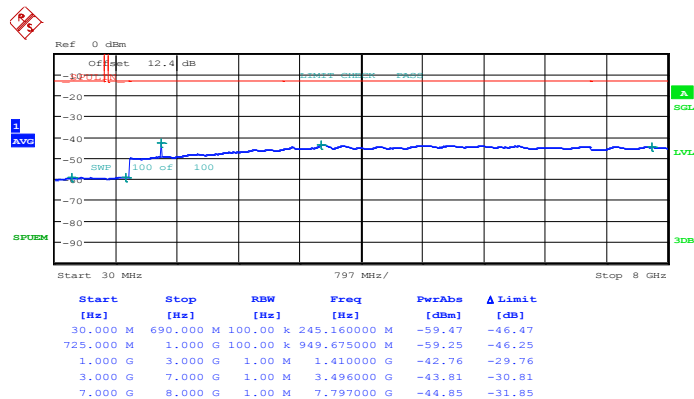


Date: 27.MAY.2014 21:06:52



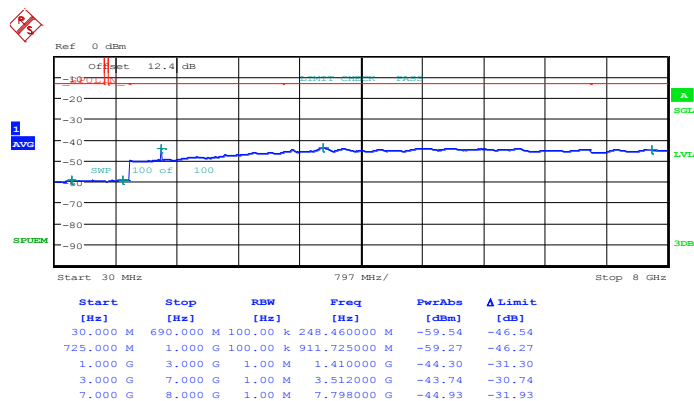
Band :	LTE Band 12	Channel :	CH23095 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 21:10:02

16QAM (RB Size 1, RB Offset 0)

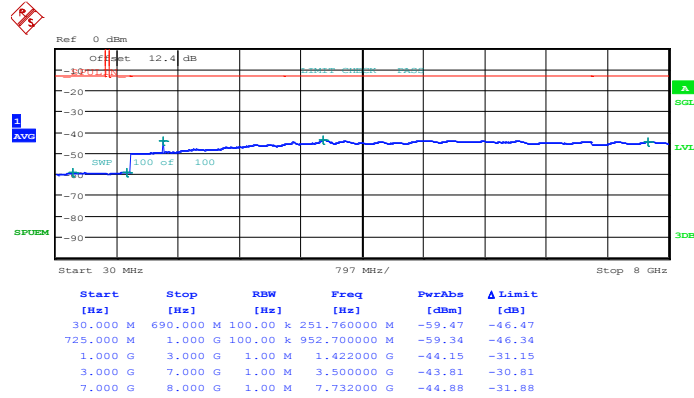


Date: 27.MAY.2014 21:09:01



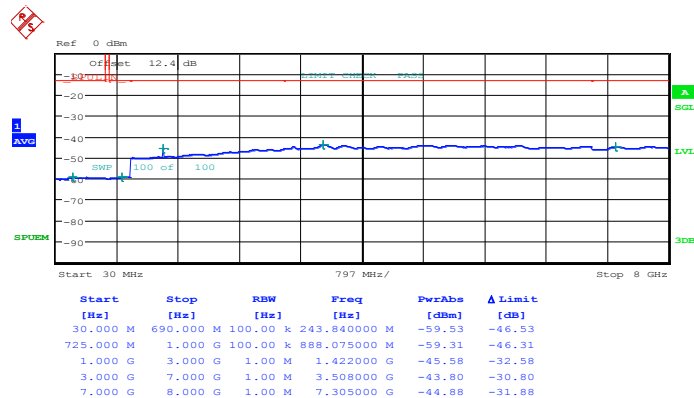
Band :	LTE Band 12	Channel :	CH23155 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 21:16:44

16QAM (RB Size 1, RB Offset 0)

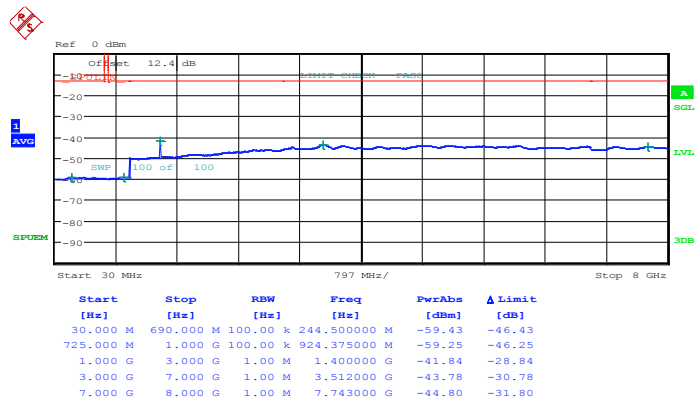


Date: 27.MAY.2014 21:15:43



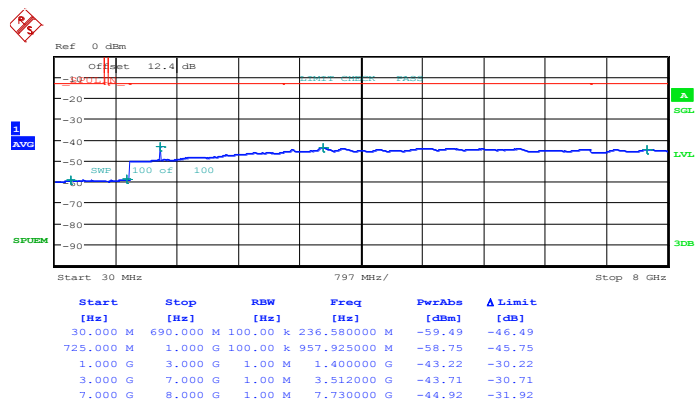
Band :	LTE Band 12	Channel :	CH23060 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 22:13:45

16QAM (RB Size 1, RB Offset 0)

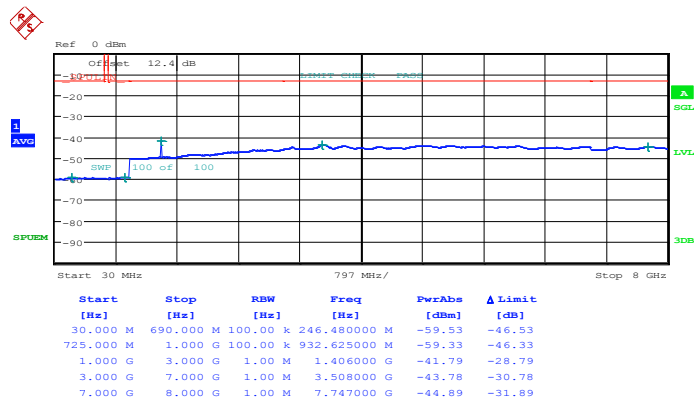


Date: 27.MAY.2014 22:17:18



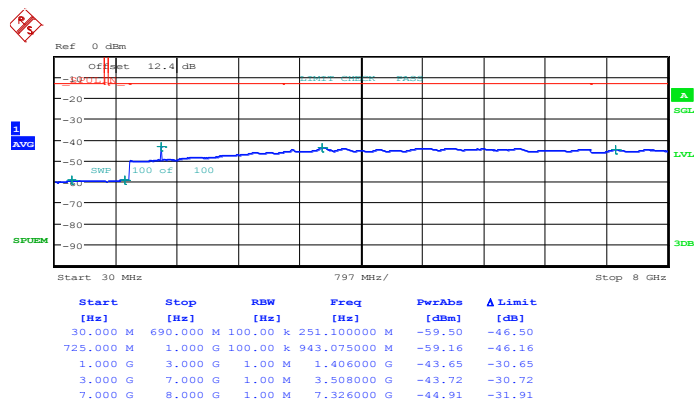
Band :	LTE Band 12	Channel :	CH23095 (Moddle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 22:11:32

16QAM (RB Size 1, RB Offset 0)

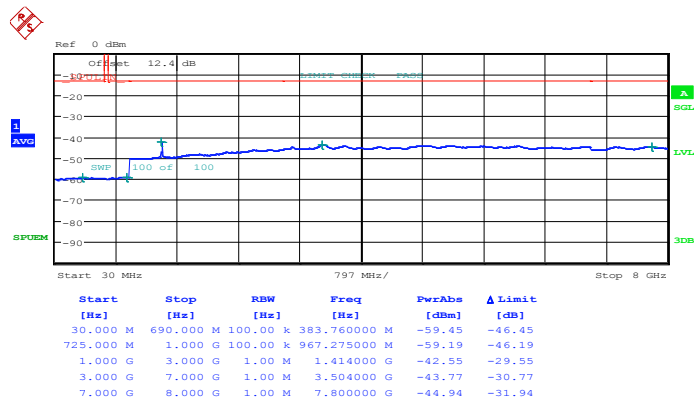


Date: 27.MAY.2014 22:09:40



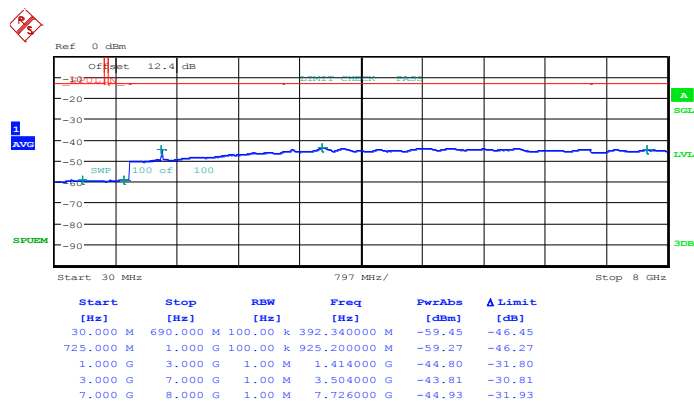
Band :	LTE Band 12	Channel :	CH23130 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 22:02:56

16QAM (RB Size 1, RB Offset 0)

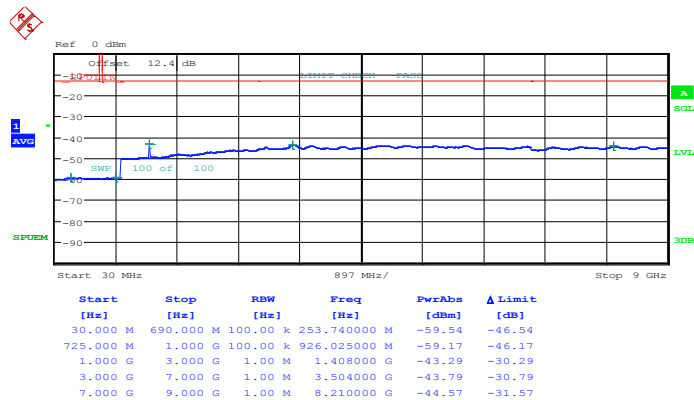


Date: 27.MAY.2014 22:05:54



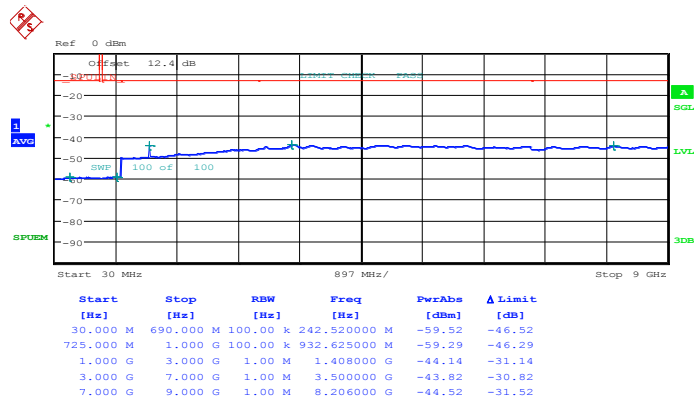
Band :	LTE Band 17	Channel :	CH23755 (Low)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 22:33:56

16QAM (RB Size 1, RB Offset 0)

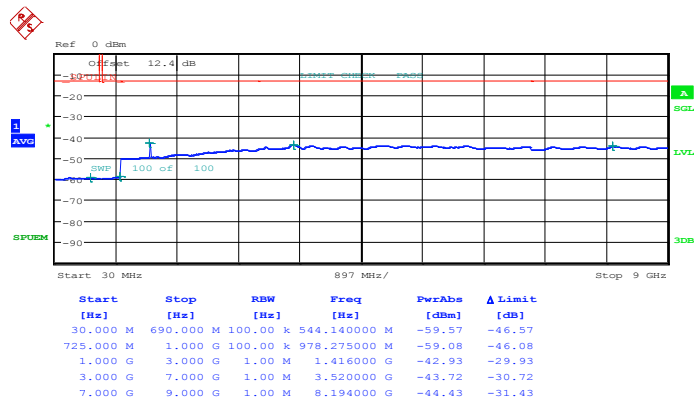


Date: 27.MAY.2014 22:34:57



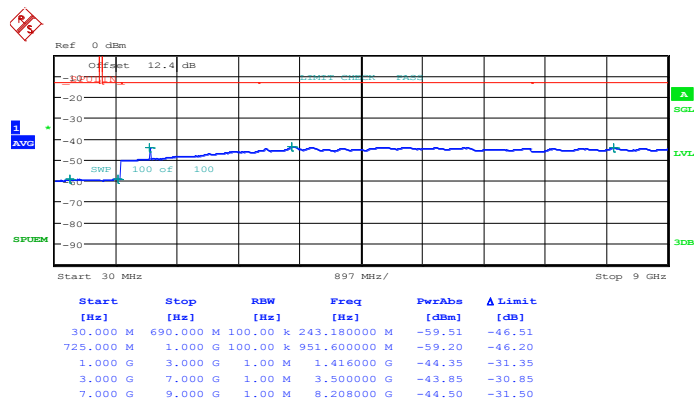
Band :	LTE Band 17	Channel :	CH23790 (Middle)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 22:37:06

16QAM (RB Size 1, RB Offset 0)

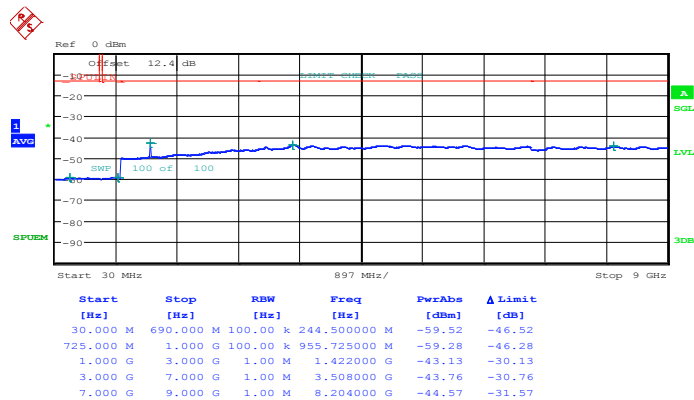


Date: 27.MAY.2014 22:38:07



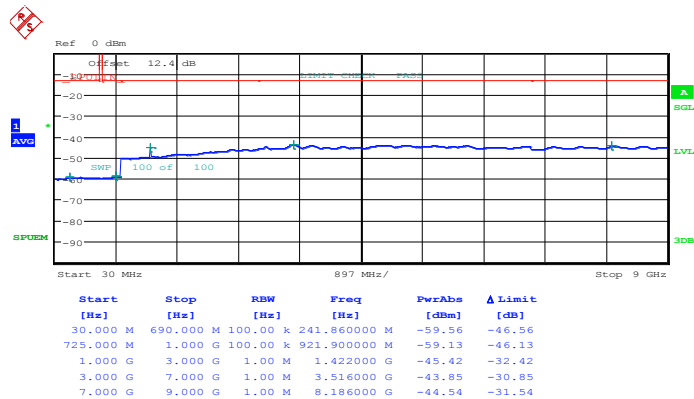
Band :	LTE Band 17	Channel :	CH23825 (High)
Band Width :	5MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 22:43:27

16QAM (RB Size 1, RB Offset 0)

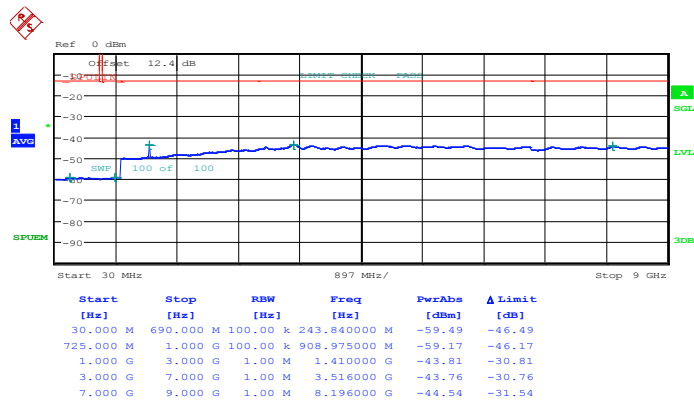


Date: 27.MAY.2014 22:44:28



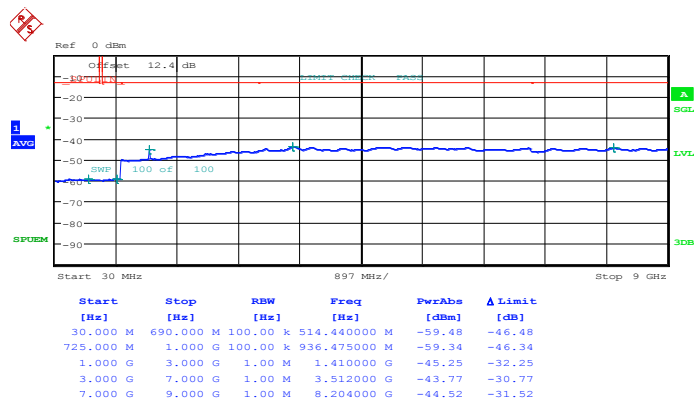
Band :	LTE Band 17	Channel :	CH23780 (Low)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 22:49:52

16QAM (RB Size 1, RB Offset 0)

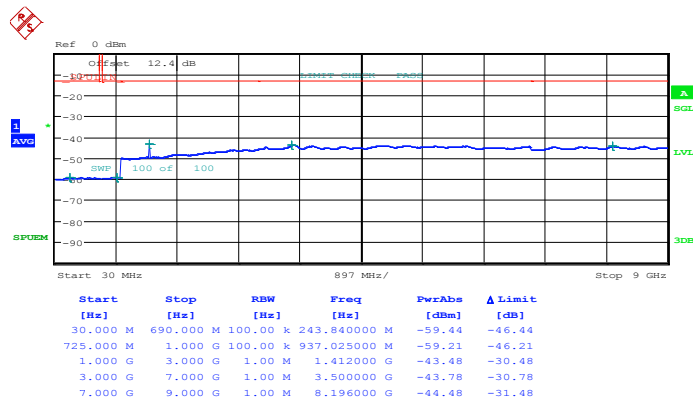


Date: 27.MAY.2014 22:50:52



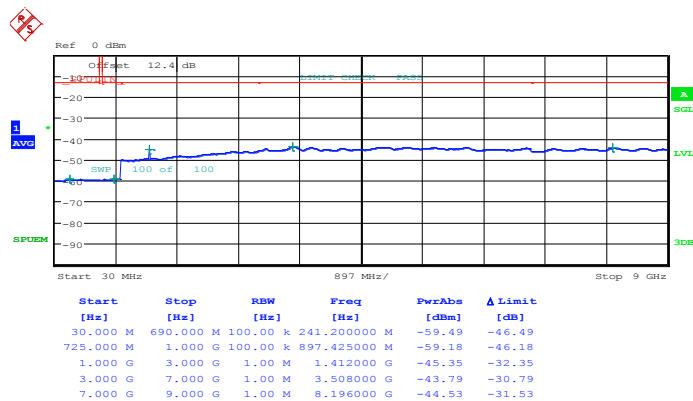
Band :	LTE Band 17	Channel :	CH23790 (Middle)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 22:53:02

16QAM (RB Size 1, RB Offset 0)

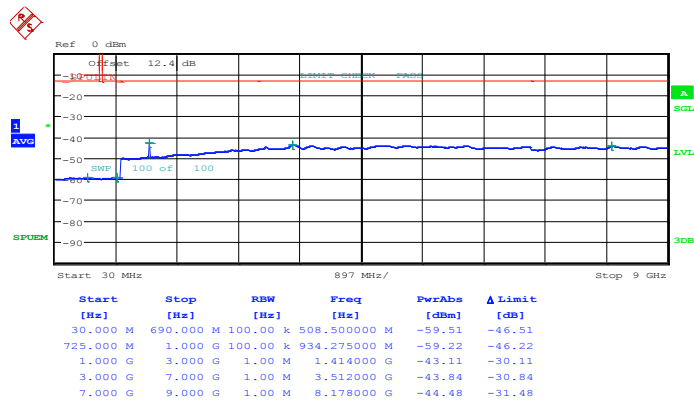


Date: 27.MAY.2014 22:54:02



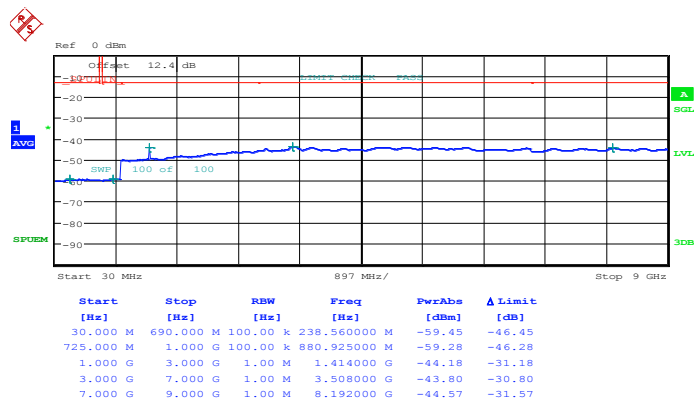
Band :	LTE Band 17	Channel :	CH23800 (High)
Band Width :	10MHz		

QPSK (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 22:59:23

16QAM (RB Size 1, RB Offset 0)



Date: 27.MAY.2014 23:00:24

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.

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 $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

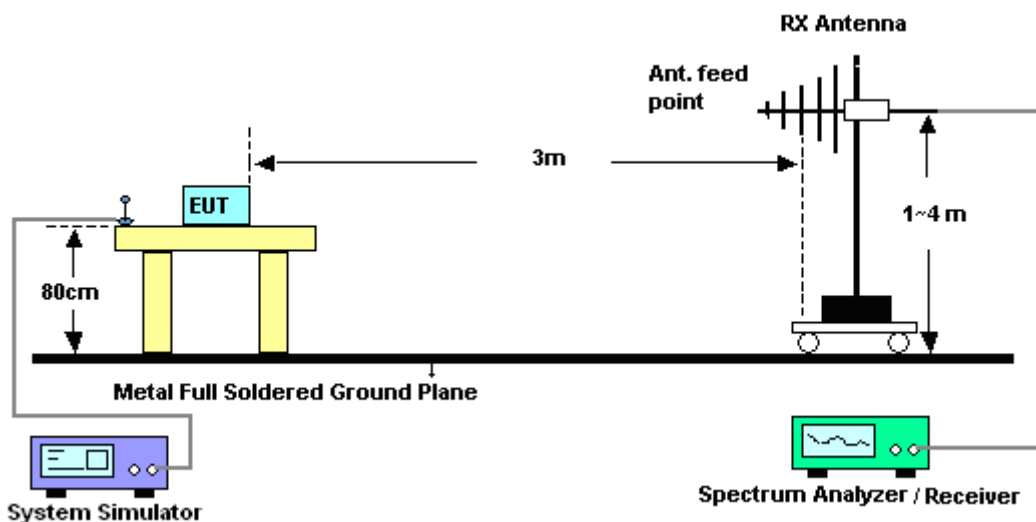
$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$

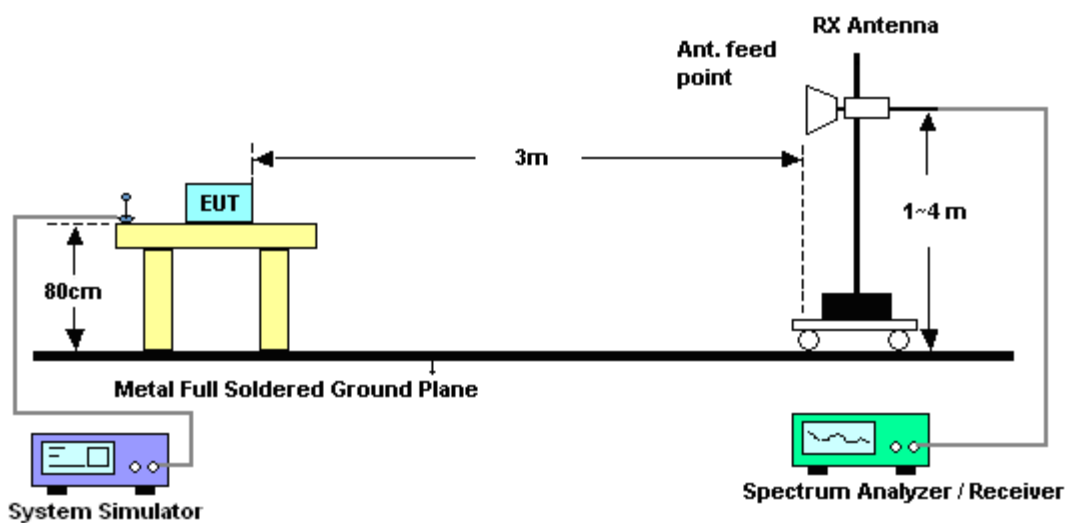
11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
12. ERP (dBm) = EIRP - 2.15

3.7.4 Test Setup

For radiated emissions from 30MHz to 1GHz



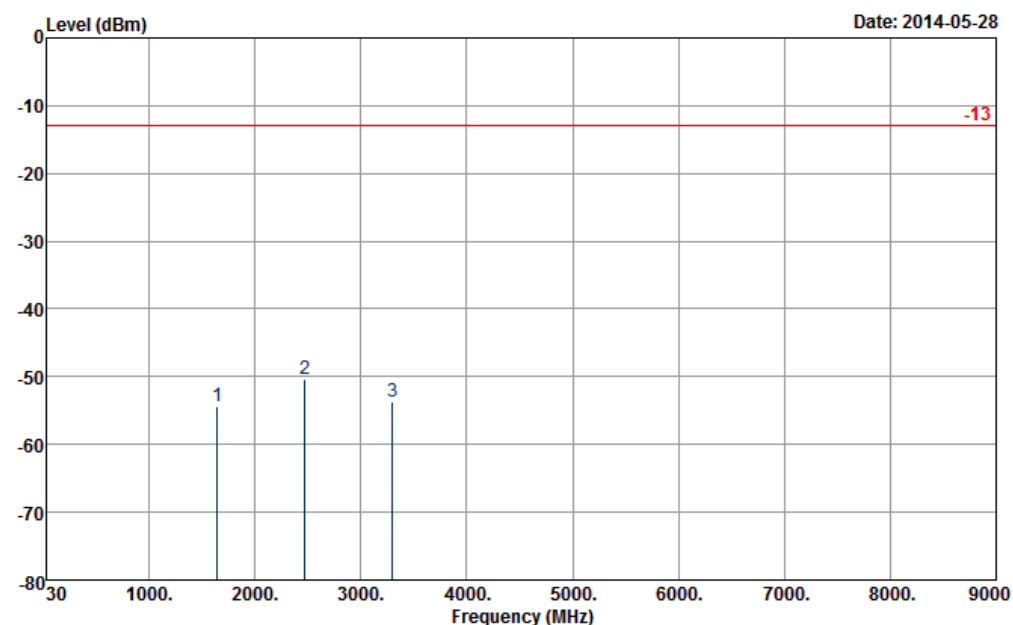
For radiated emissions above 1GHz



3.7.5 Test Result of Field Strength of Spurious Radiated

<Low Channel>

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

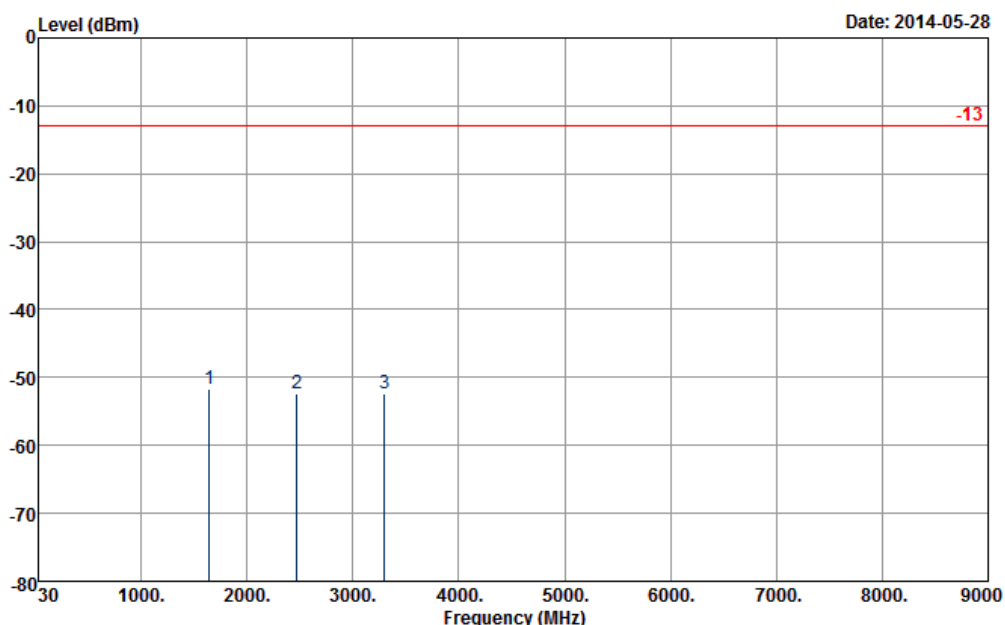


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-54.34	-13	-41.34	-62.96	-58.29	1.63	5.58	H	Pass
2472	-50.36	-13	-37.36	-64.15	-54.46	2.21	6.31	H	Pass
3296	-53.72	-13	-40.72	-67.6	-58.75	3.1	8.13	H	Pass



Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

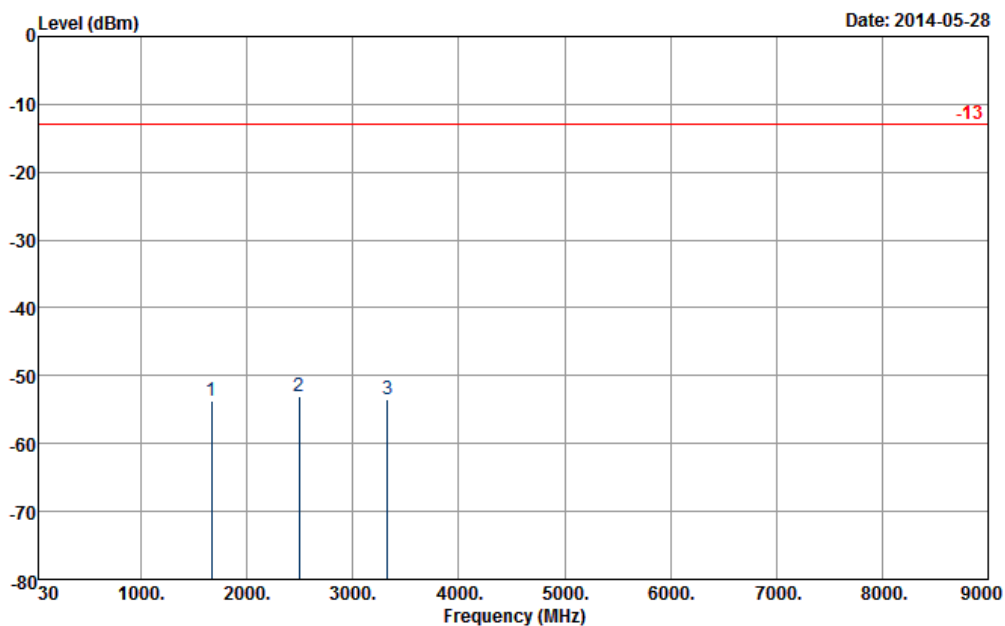


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-51.66	-13	-38.66	-62.58	-55.61	1.63	5.58	V	Pass
2472	-52.42	-13	-39.42	-66.27	-56.52	2.21	6.31	V	Pass
3296	-52.33	-13	-39.33	-68.14	-57.36	3.1	8.13	V	Pass

<Middle Channel>

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

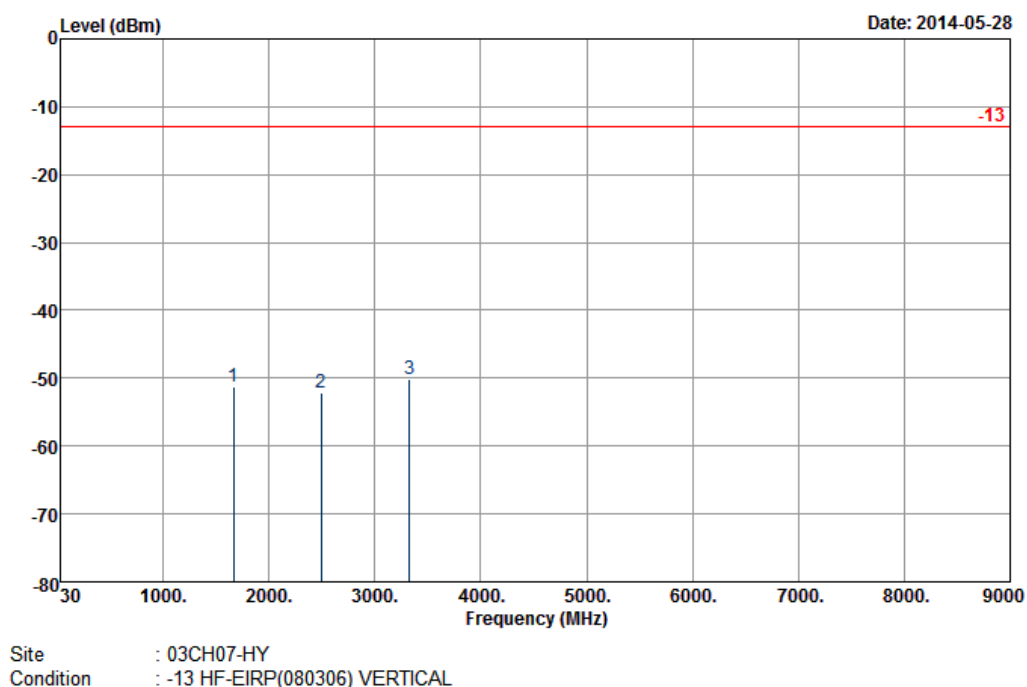


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-53.75	-13	-40.75	-62.76	-57.62	1.62	5.49	H	Pass
2496	-53.09	-13	-40.09	-66.36	-57.21	2.1	6.22	H	Pass
3328	-53.51	-13	-40.51	-67.44	-58.55	3.03	8.07	H	Pass



Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

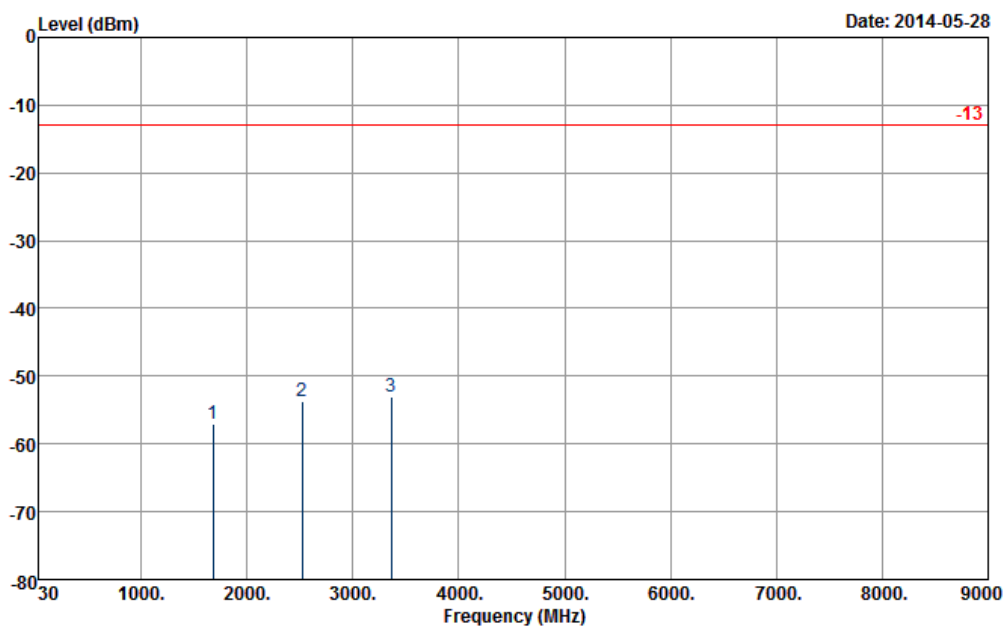


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1664	-51.27	-13	-38.27	-62.21	-55.14	1.62	5.49	V	Pass
2496	-52.23	-13	-39.23	-66.16	-56.35	2.1	6.22	V	Pass
3328	-50.24	-13	-37.24	-66.07	-55.28	3.03	8.07	V	Pass



<High Channel>

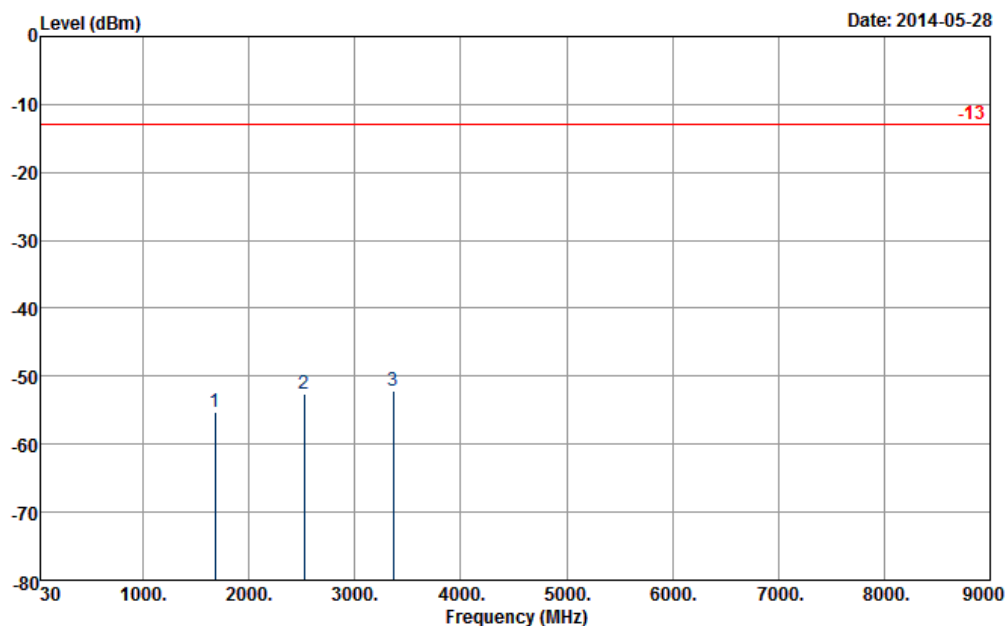
Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-57.15	-13	-44.15	-66.06	-61.05	1.52	5.42	H	Pass
2520	-53.66	-13	-40.66	-66.91	-57.92	1.99	6.25	H	Pass
3360	-53.09	-13	-40.09	-67.67	-59.09	2.14	8.14	H	Pass

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

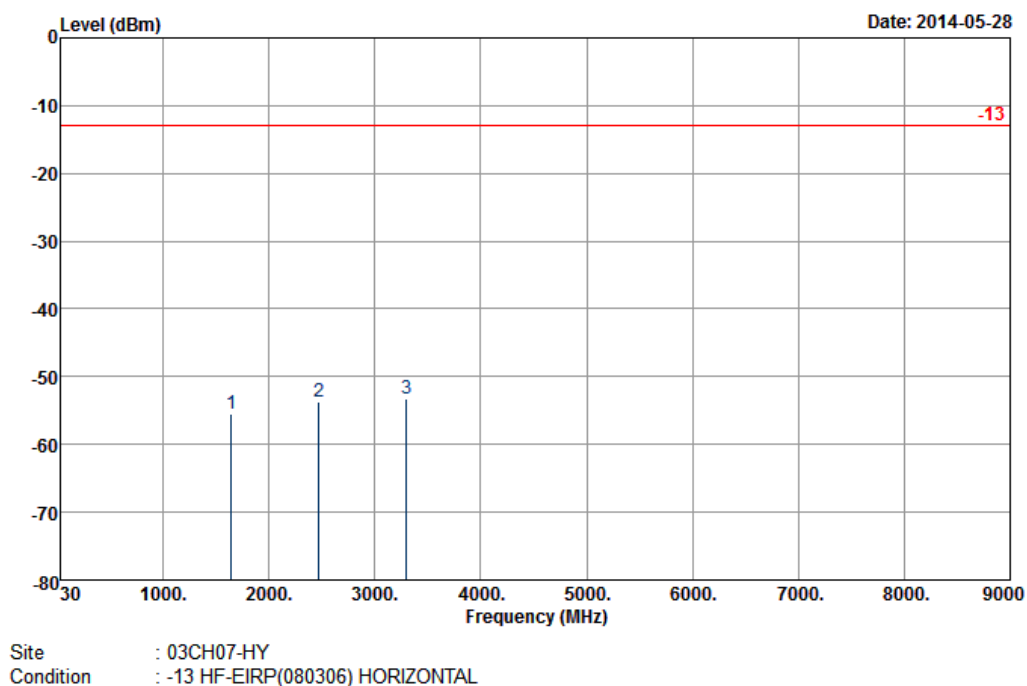


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-55.36	-13	-42.36	-66.5	-59.26	1.52	5.42	V	Pass
2520	-52.61	-13	-39.61	-66.69	-56.87	1.99	6.25	V	Pass
3360	-52.14	-13	-39.14	-67.87	-58.14	2.14	8.14	V	Pass

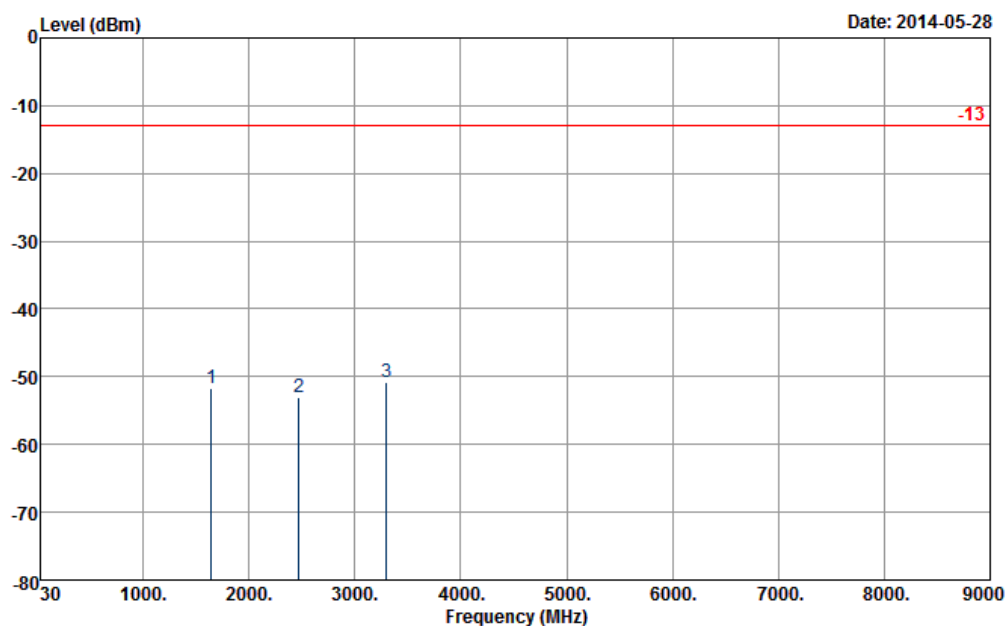
<Low Channel>

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	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	-55.46	-13	-42.46	-64.29	-59.36	1.61	5.51	H	Pass
2472	-53.71	-13	-40.71	-66.99	-57.87	2.1	6.26	H	Pass
3296	-53.34	-13	-40.34	-67.67	-58.34	3.12	8.12	H	Pass

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



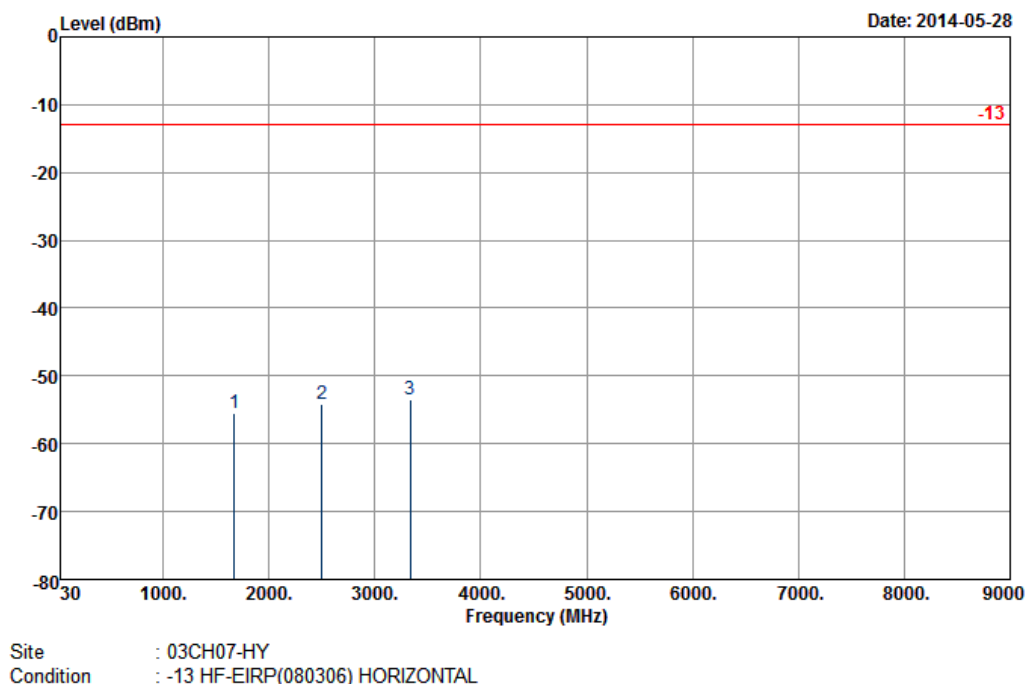
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-51.73	-13	-38.73	-62.67	-55.63	1.61	5.51	V	Pass
2472	-53.11	-13	-40.11	-67.17	-57.27	2.1	6.26	V	Pass
3296	-50.86	-13	-37.86	-66.33	-55.86	3.12	8.12	V	Pass



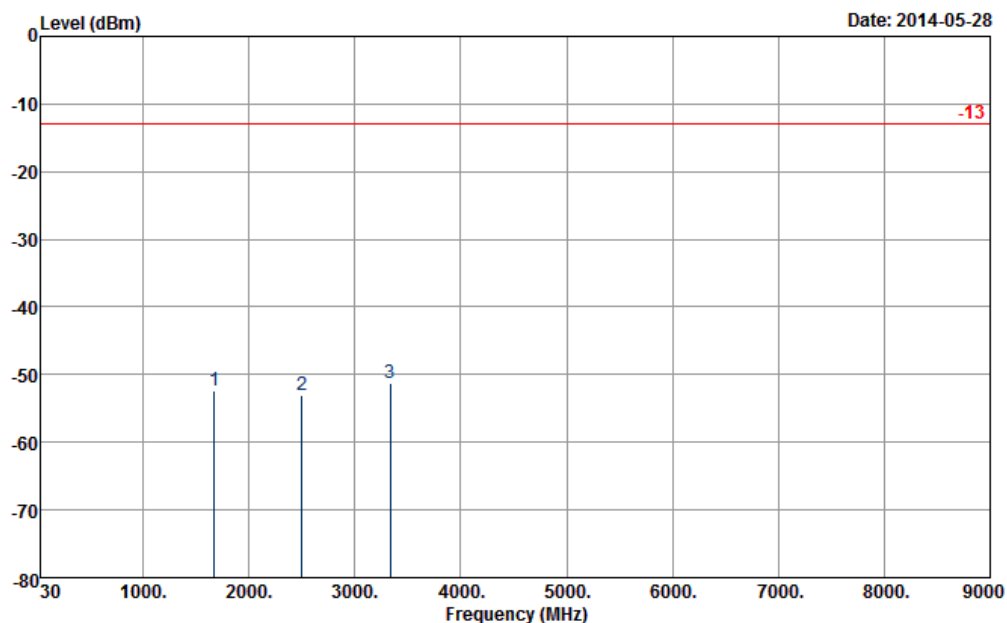
<Middle Channel>

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	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	-55.56	-13	-42.56	-64.19	-59.43	1.62	5.49	H	Pass
2504	-54.15	-13	-41.15	-67.34	-58.27	2.1	6.22	H	Pass
3336	-53.55	-13	-40.55	-67.53	-58.59	3.03	8.07	H	Pass

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

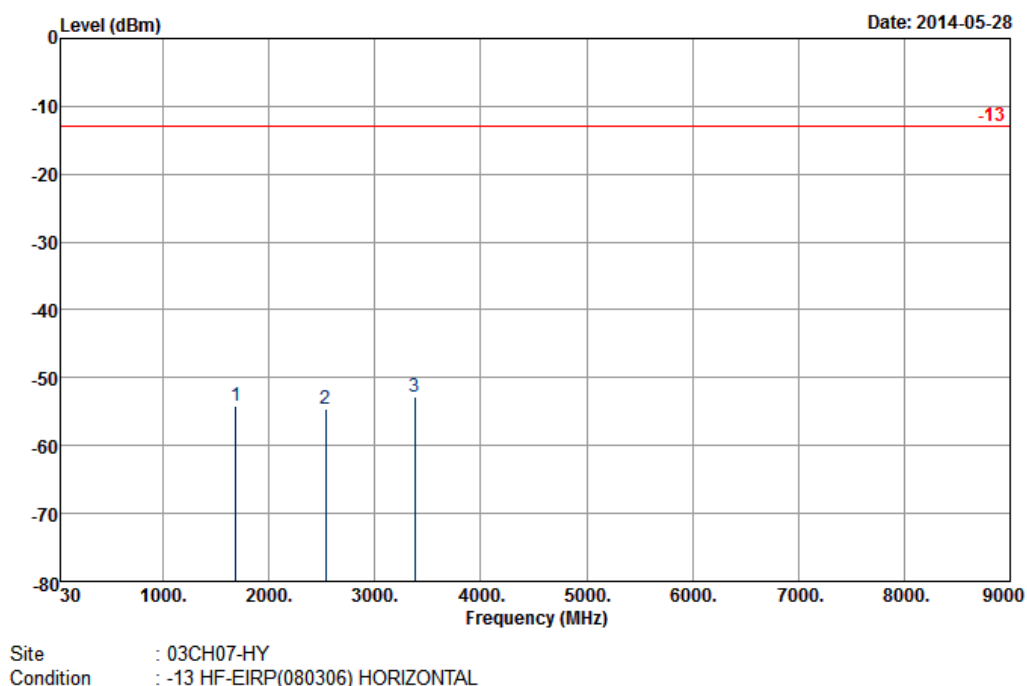


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-52.32	-13	-39.32	-63.57	-56.19	1.62	5.49	V	Pass
2504	-53.14	-13	-40.14	-67.19	-57.26	2.1	6.22	V	Pass
3336	-51.32	-13	-38.32	-66.89	-56.36	3.03	8.07	V	Pass

<High Channel>

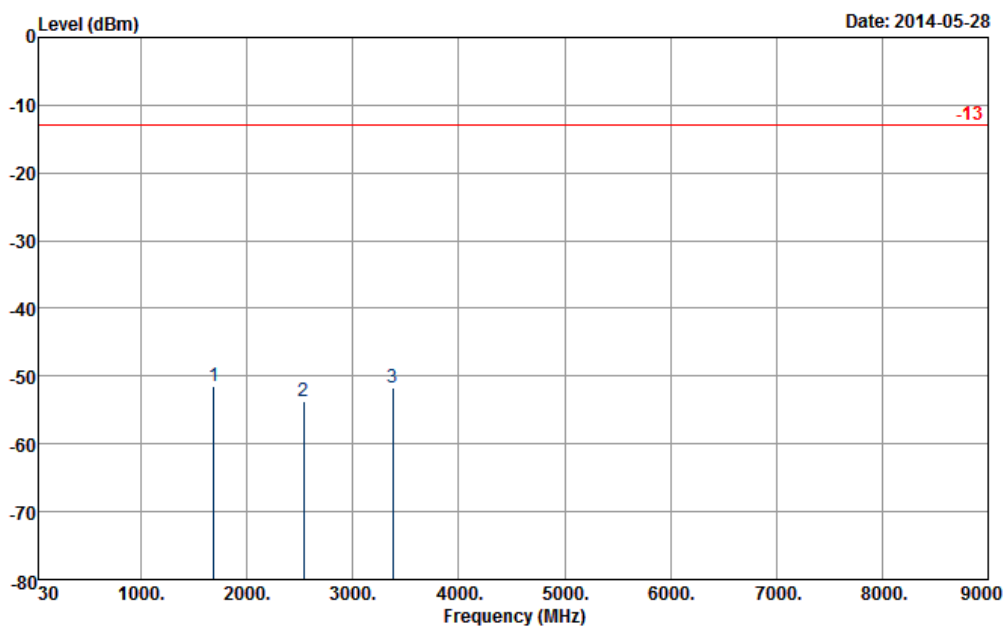
Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-54.22	-13	-41.22	-63.2	-58.12	1.54	5.44	H	Pass
2536	-54.51	-13	-41.51	-67.74	-58.77	2.01	6.27	H	Pass
3376	-52.72	-13	-39.72	-67.14	-58.72	2.18	8.18	H	Pass



Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



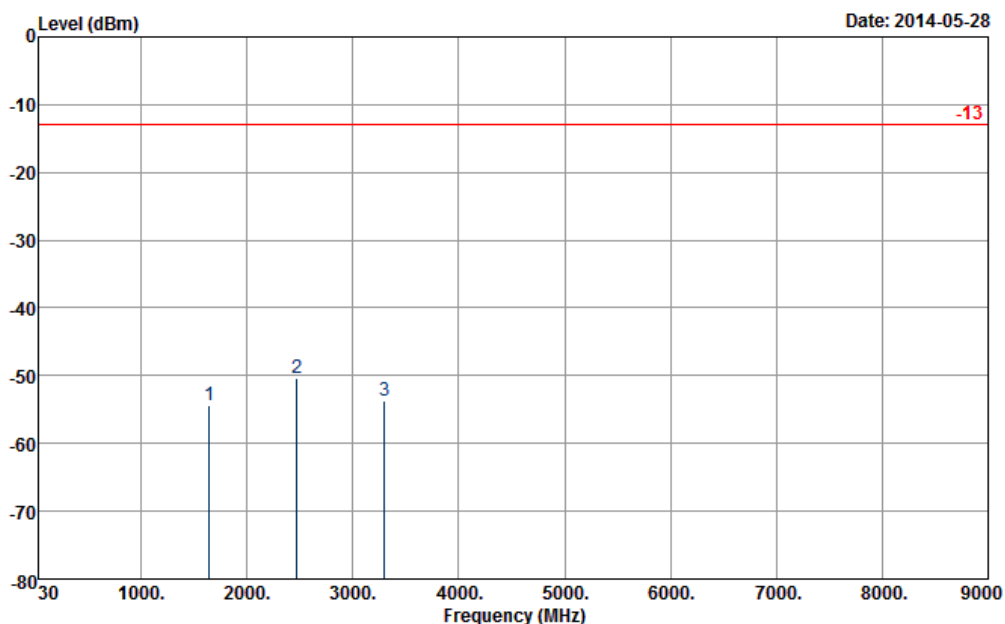
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-51.44	-13	-38.44	-62.44	-55.34	1.54	5.44	V	Pass
2536	-53.74	-13	-40.74	-67.28	-58	2.01	6.27	V	Pass
3376	-51.76	-13	-38.76	-67.32	-57.76	2.18	8.18	V	Pass



<Low Channel>

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

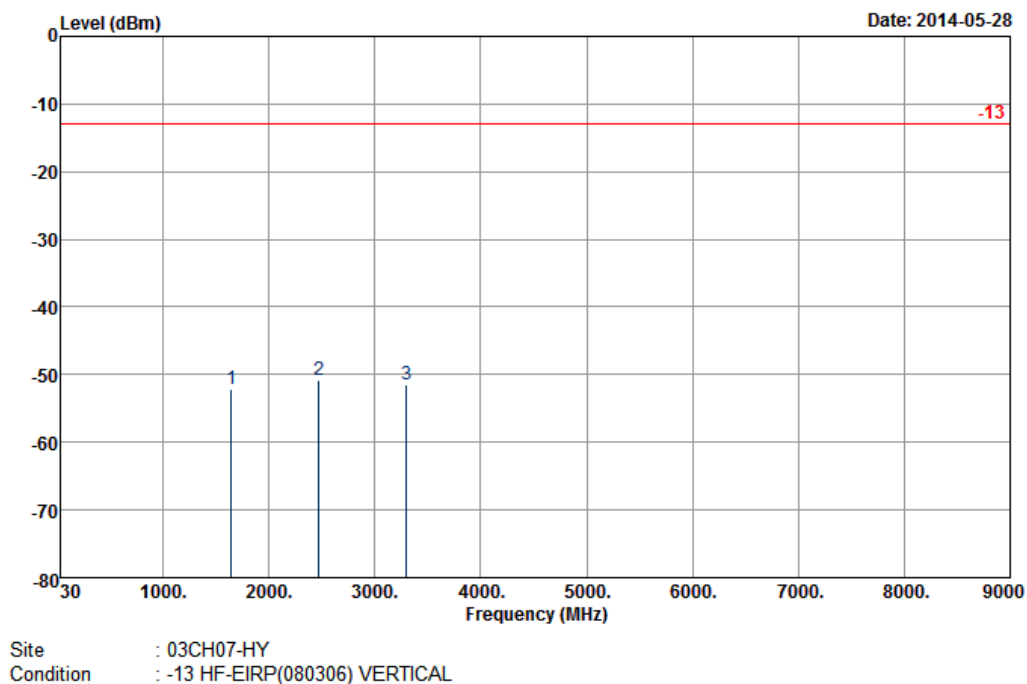


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-54.37	-13	-41.37	-63.54	-58.26	1.6	5.49	H	Pass
2472	-50.29	-13	-37.29	-63.83	-54.47	2.08	6.26	H	Pass
3296	-53.74	-13	-40.74	-67.14	-58.76	3.09	8.11	H	Pass



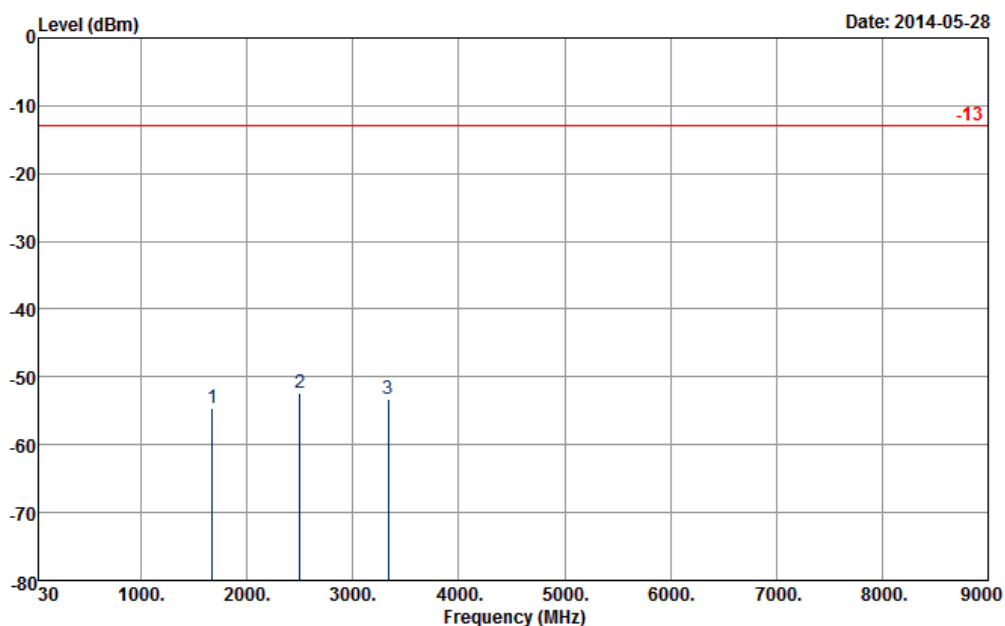
Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-52.25	-13	-39.25	-63.04	-56.14	1.6	5.49	V	Pass
2472	-50.88	-13	-37.88	-63.72	-55.06	2.08	6.26	V	Pass
3296	-51.37	-13	-38.37	-66.79	-56.39	3.09	8.11	V	Pass

<Middle Channel>

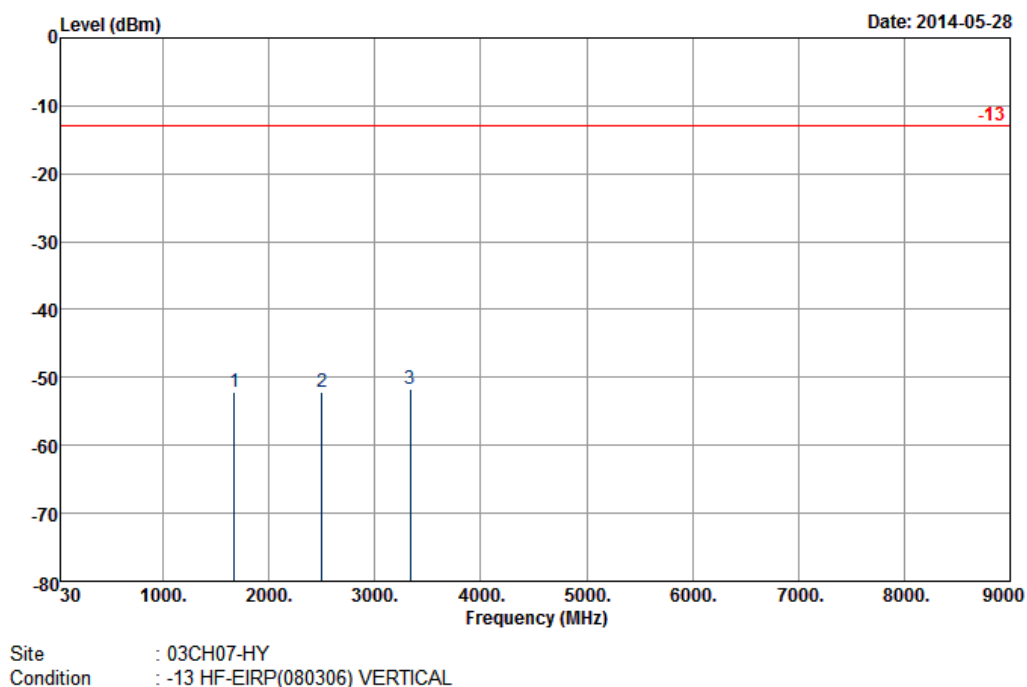
Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-54.49	-13	-41.49	-63.77	-58.36	1.62	5.49	H	Pass
2504	-52.34	-13	-39.34	-65.41	-56.46	2.1	6.22	H	Pass
3336	-53.25	-13	-40.25	-67.39	-58.29	3.03	8.07	H	Pass

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

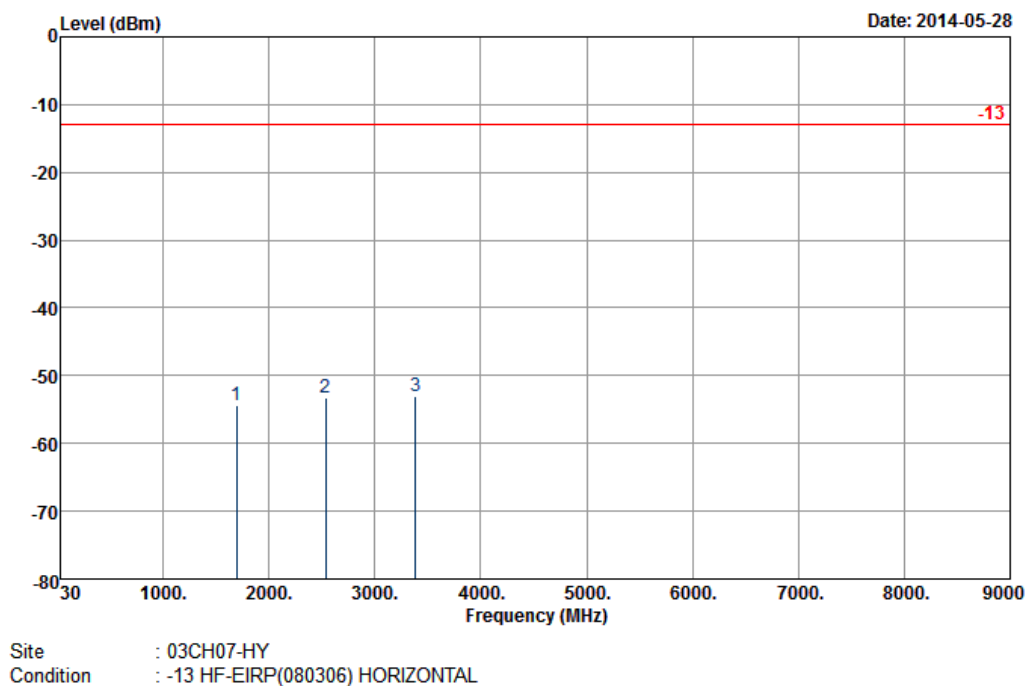


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-52.17	-13	-39.17	-63.26	-56.04	1.62	5.49	V	Pass
2504	-52.23	-13	-39.23	-65.97	-56.35	2.1	6.22	V	Pass
3336	-51.60	-13	-38.60	-67.5	-56.64	3.03	8.07	V	Pass



<High Channel>

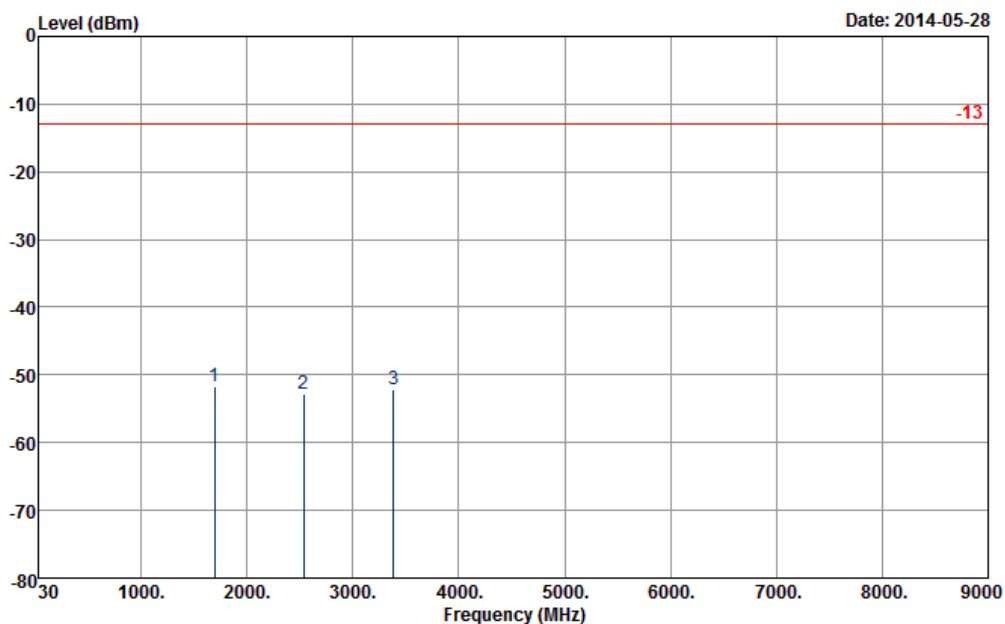
Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-54.41	-13	-41.41	-63.36	-58.3	1.56	5.45	H	Pass
2536	-53.16	-13	-40.16	-66.99	-57.42	2.02	6.28	H	Pass
3384	-53.11	-13	-40.11	-67.15	-59.01	2.29	8.19	H	Pass



Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



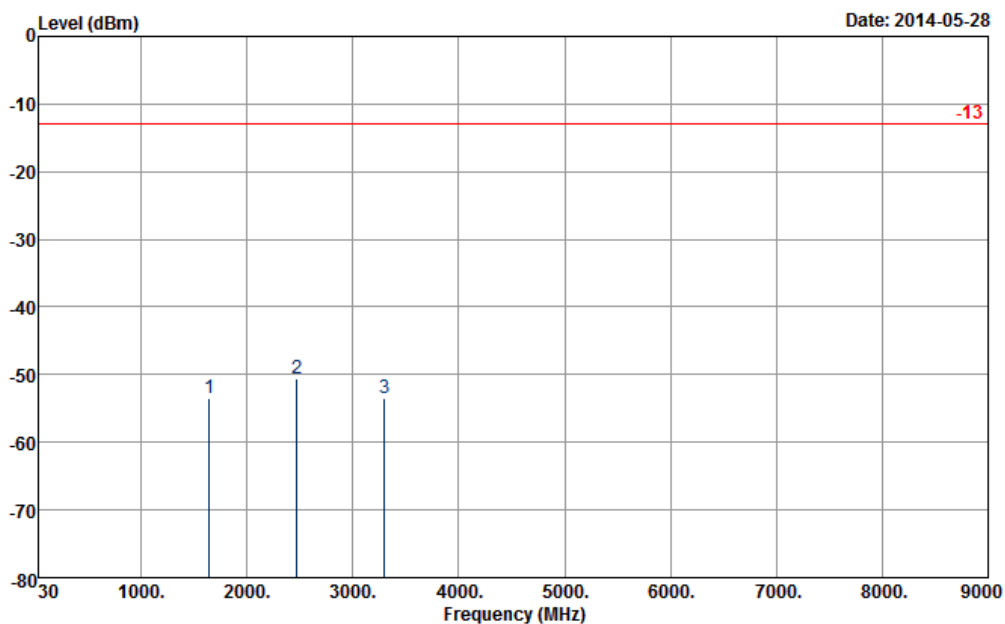
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-51.73	-13	-38.73	-63.02	-55.62	1.56	5.45	V	Pass
2536	-52.71	-13	-39.71	-66.75	-56.97	2.02	6.28	V	Pass
3384	-52.14	-13	-39.14	-68	-58.04	2.29	8.19	V	Pass



<Low Channel>

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

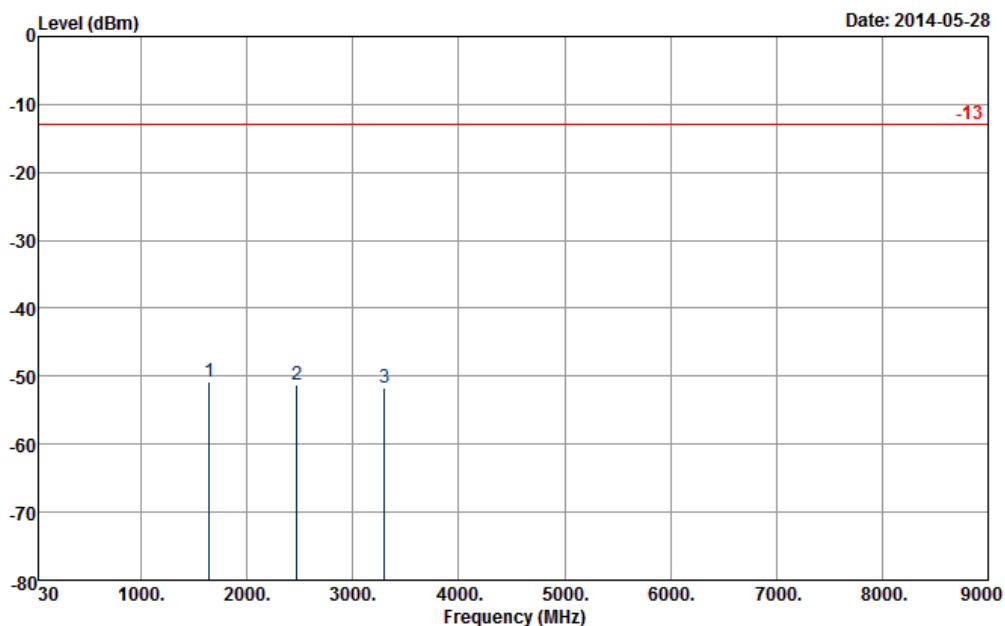


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-53.47	-13	-40.47	-61.84	-57.36	1.61	5.50	H	Pass
2472	-50.69	-13	-37.69	-64.07	-54.84	2.09	6.24	H	Pass
3296	-53.42	-13	-40.42	-67.31	-58.43	3.08	8.09	H	Pass



Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



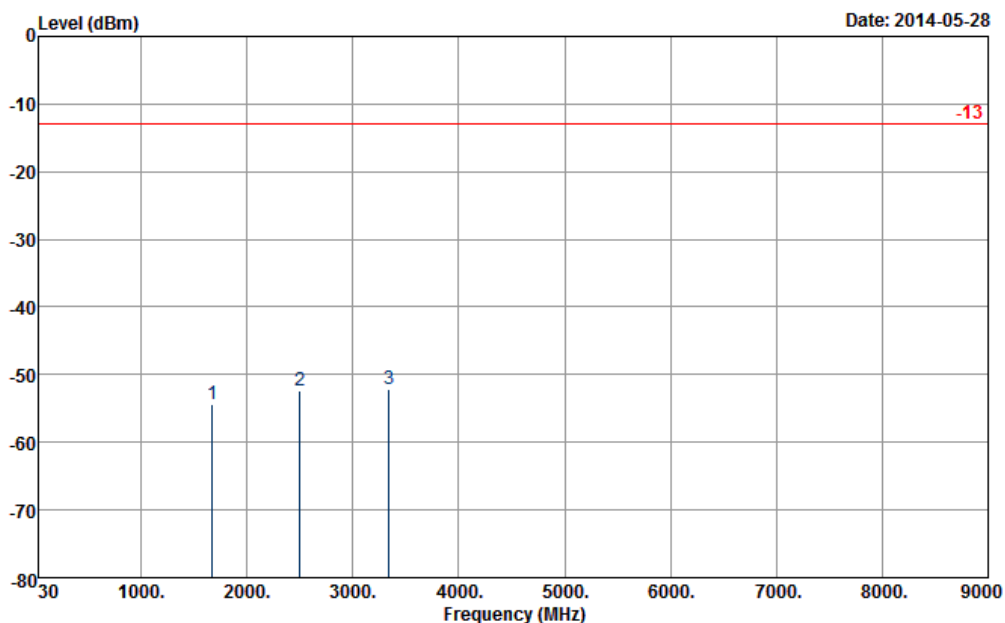
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-50.73	-13	-37.73	-61.42	-54.62	1.61	5.50	V	Pass
2472	-51.19	-13	-38.19	-64.77	-55.34	2.09	6.24	V	Pass
3296	-51.74	-13	-38.74	-67.44	-56.75	3.08	8.09	V	Pass



<Middle Channel>

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

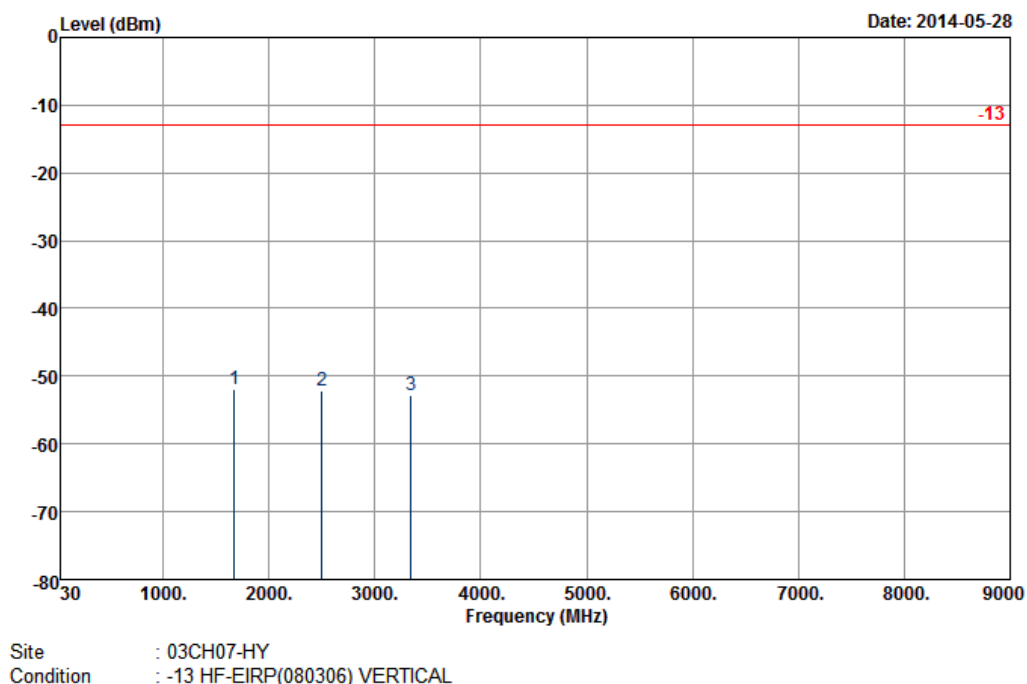


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-54.37	-13	-41.37	-63.21	-58.24	1.62	5.49	H	Pass
2504	-52.34	-13	-39.34	-66.18	-56.46	2.1	6.22	H	Pass
3344	-52.12	-13	-39.12	-66.79	-57.16	3.03	8.07	H	Pass



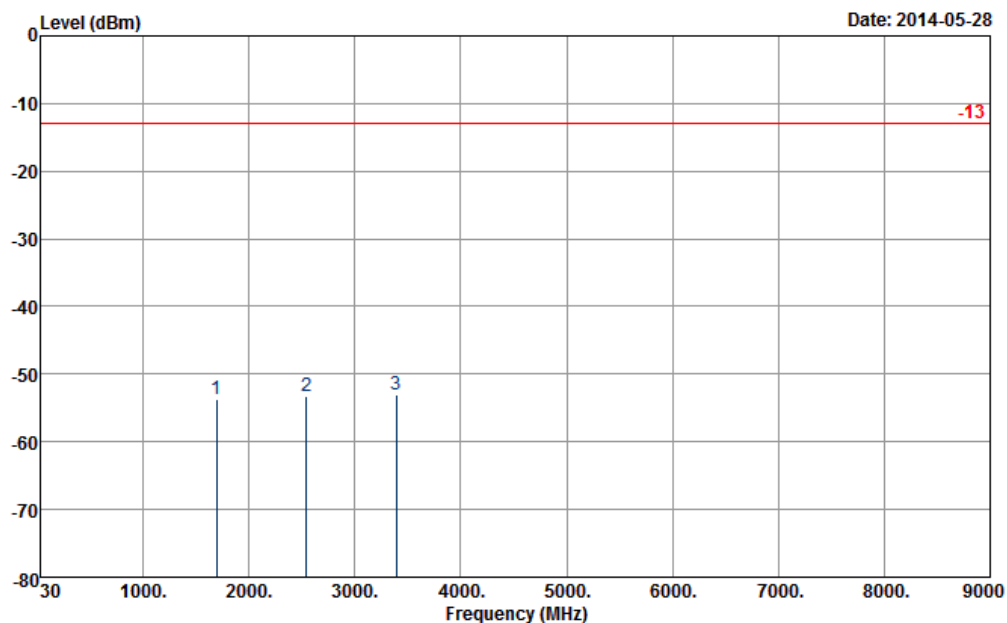
Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-51.88	-13	-38.88	-62.72	-55.75	1.62	5.49	V	Pass
2504	-52.11	-13	-39.11	-65.84	-56.23	2.1	6.22	V	Pass
3344	-52.81	-13	-39.81	-67.94	-57.85	3.03	8.07	V	Pass

<High Channel>

Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

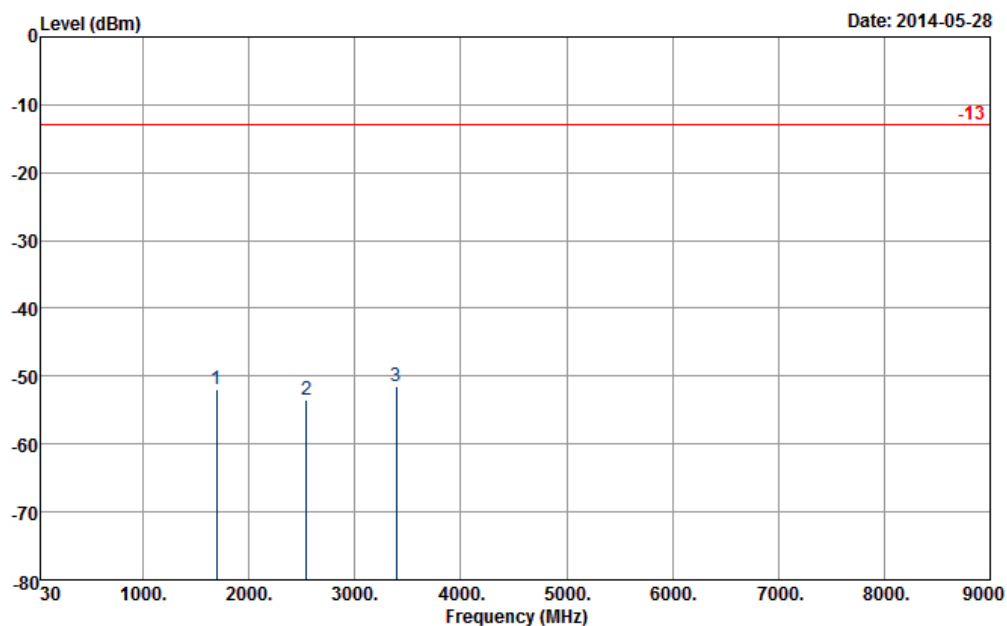


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-53.67	-13	-40.67	-62.83	-57.56	1.58	5.47	H	Pass
2544	-53.30	-13	-40.30	-66.99	-57.58	2.03	6.31	H	Pass
3392	-53.09	-13	-40.09	-67.75	-59.01	2.31	8.23	H	Pass



Band :	LTE Band 5	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



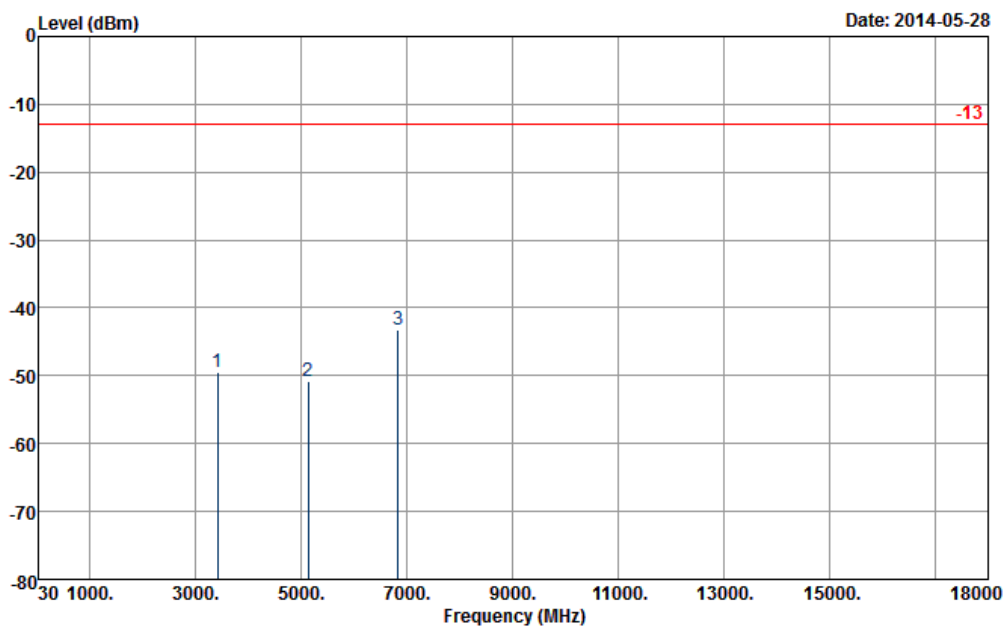
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-51.92	-13	-38.92	-62.68	-55.81	1.58	5.47	V	Pass
2544	-53.42	-13	-40.42	-67.07	-57.7	2.03	6.31	V	Pass
3392	-51.48	-13	-38.48	-67.13	-57.4	2.31	8.23	V	Pass



<Low Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

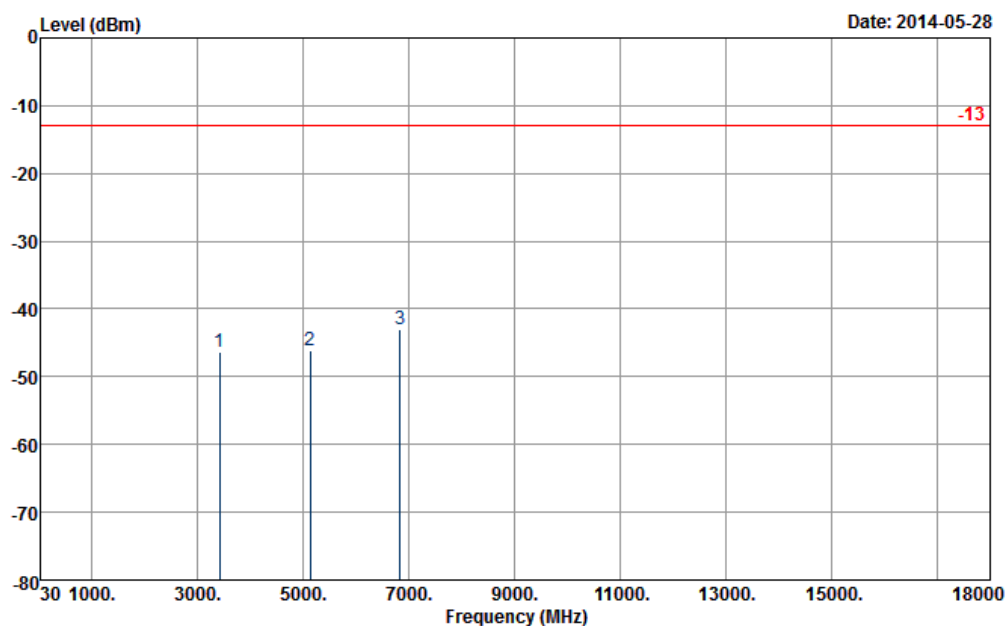


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-49.42	-13	-36.42	-63.71	-53.2	4.62	8.40	H	Pass
5130	-50.77	-13	-37.77	-69.31	-55.4	5.45	10.08	H	Pass
6840	-43.26	-13	-30.26	-68.9	-48.5	6.18	11.42	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



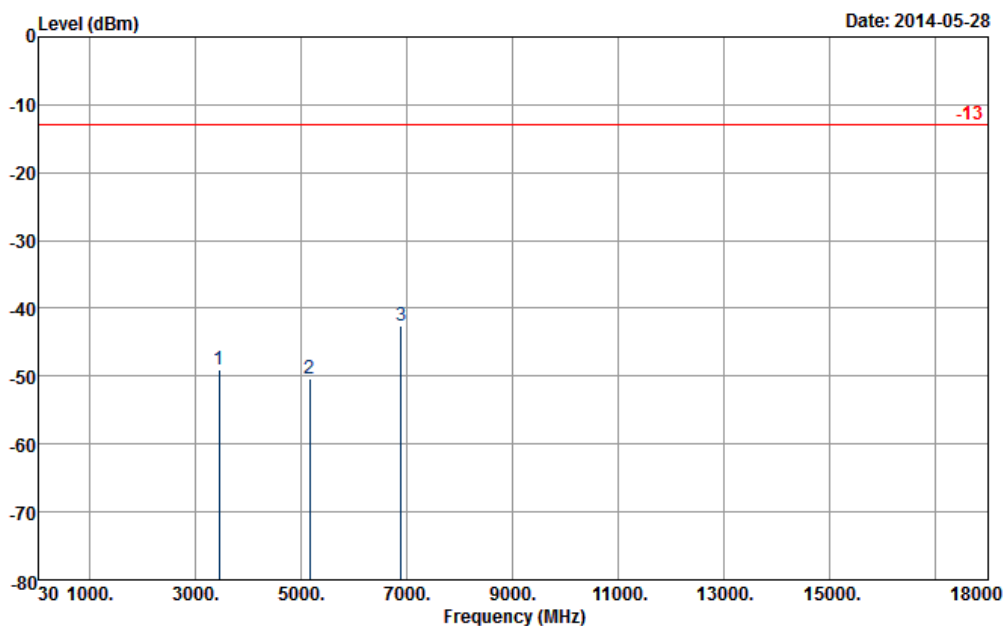
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-46.32	-13	-33.32	-62.05	-50.1	4.62	8.40	V	Pass
5130	-46.17	-13	-33.17	-64.85	-50.8	5.45	10.08	V	Pass
6840	-43.06	-13	-30.06	-68.03	-48.3	6.18	11.42	V	Pass



<Middle Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

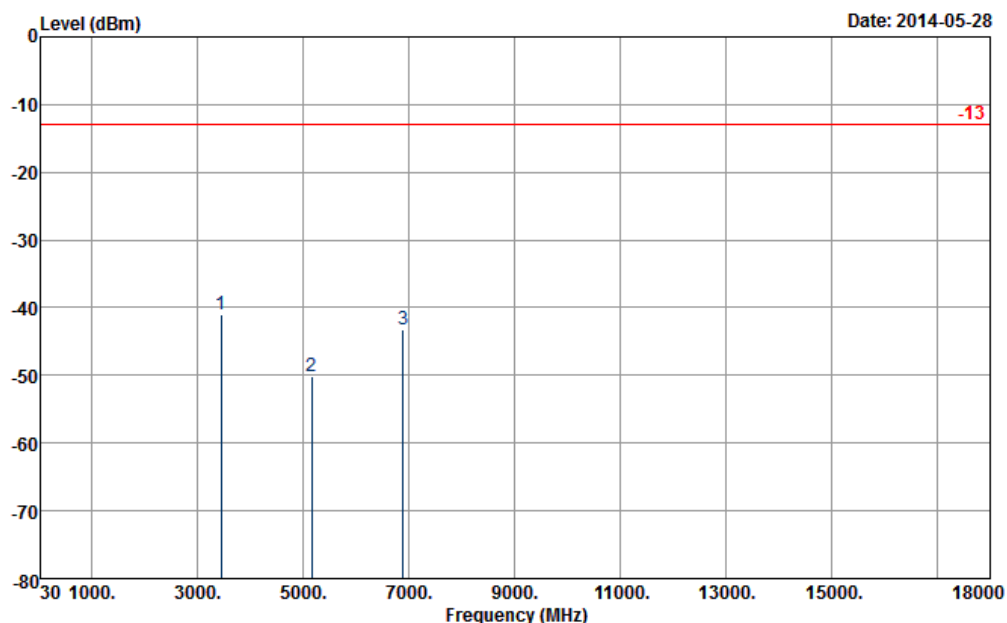


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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
3445	-49.07	-13	-36.07	-63.72	-52.9	4.48	8.31	H	Pass
5168	-50.46	-13	-37.46	-69.15	-55.1	5.332	9.98	H	Pass
6890	-42.66	-13	-29.66	-68.86	-47.9	6.1	11.34	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



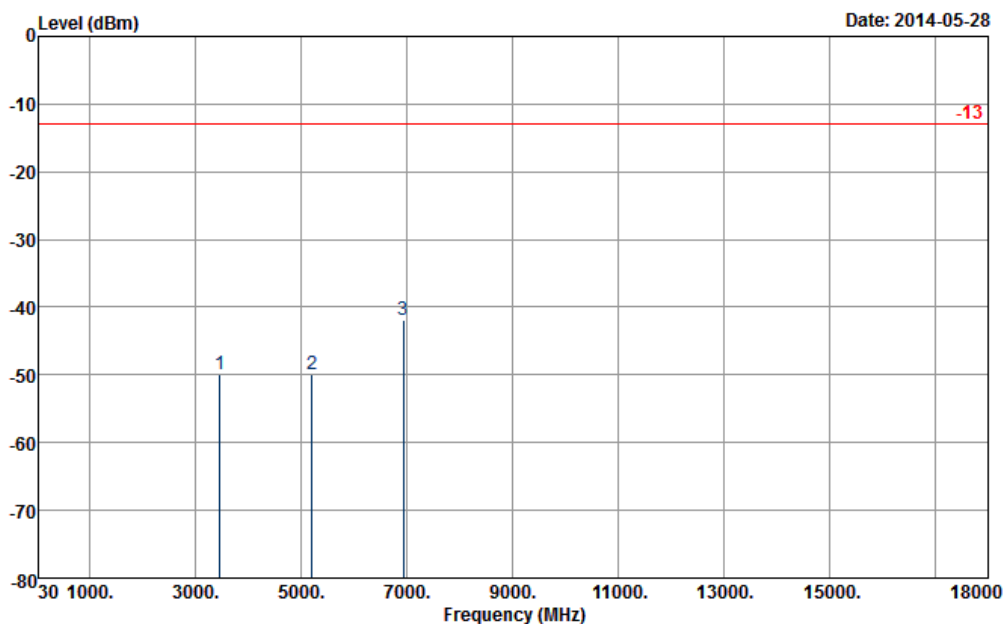
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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
3445	-40.97	-13	-27.97	-56.91	-44.8	4.48	8.31	V	Pass
5168	-50.16	-13	-37.16	-68.63	-54.8	5.332	9.98	V	Pass
6890	-43.16	-13	-30.16	-68.73	-48.4	6.1	11.34	V	Pass



<High Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

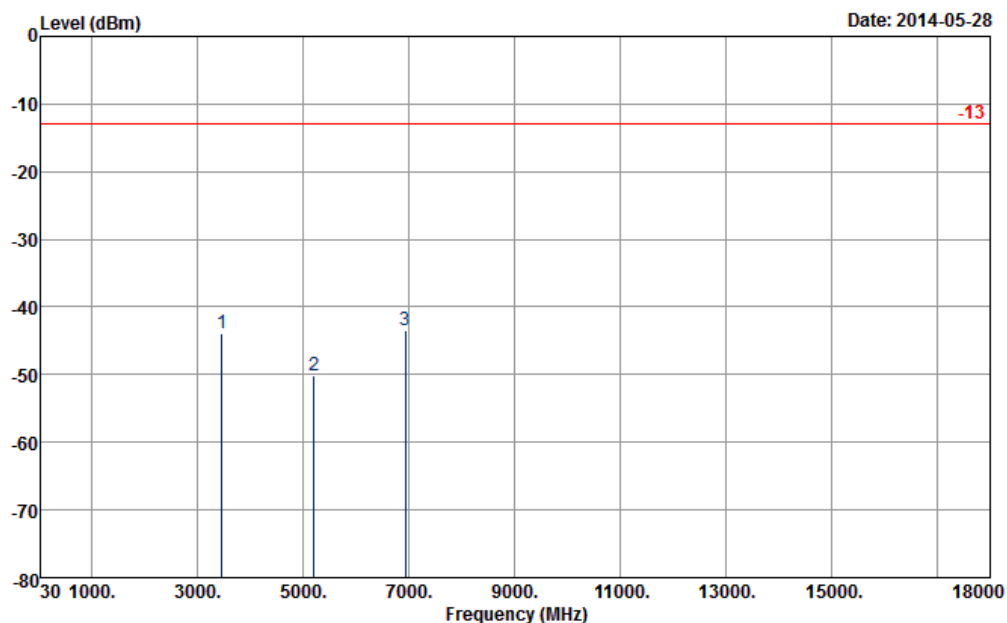


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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
3469	-49.91	-13	-36.91	-64.01	-54	4.28	8.37	H	Pass
5205	-49.89	-13	-36.89	-68.52	-54.7	5.22	10.03	H	Pass
6940	-41.97	-13	-28.97	-68.41	-47.1	6.23	11.36	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	20MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



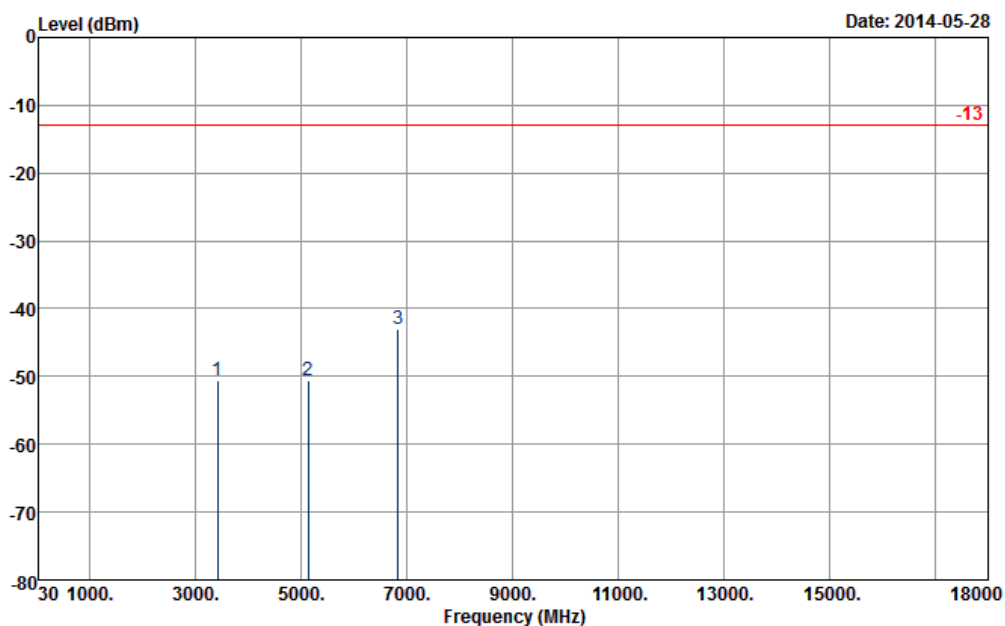
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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
3469	-43.91	-13	-30.91	-59.64	-48	4.28	8.37	V	Pass
5205	-50.09	-13	-37.09	-68.86	-54.9	5.22	10.03	V	Pass
6940	-43.47	-13	-30.47	-68.77	-48.6	6.23	11.36	V	Pass



<Low Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

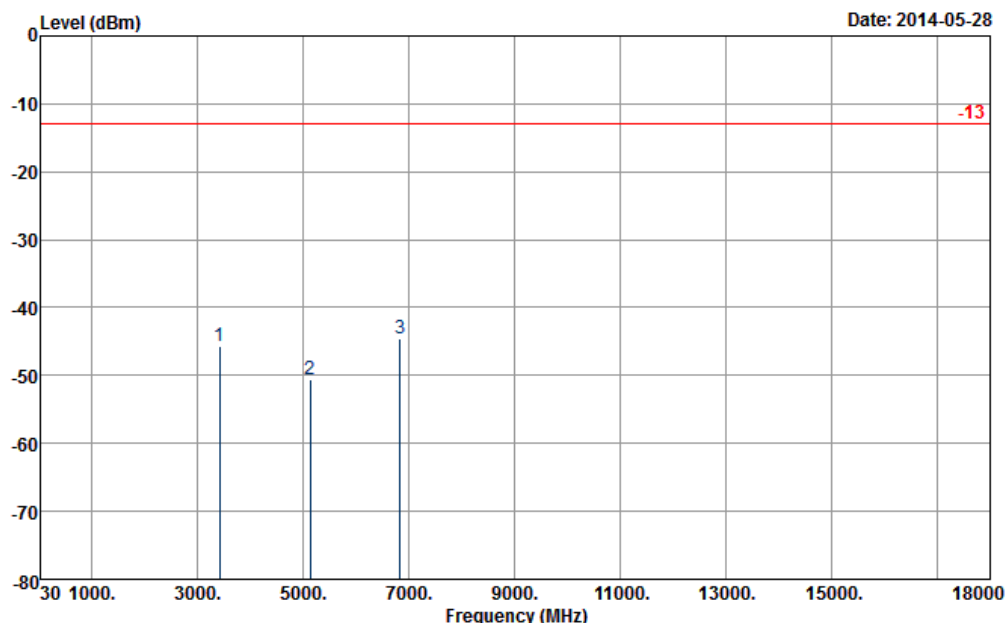


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-50.63	-13	-37.63	-65.07	-54.4	4.59	8.36	H	Pass
5131	-50.56	-13	-37.56	-69.1	-55.2	5.41	10.05	H	Pass
6842	-43.06	-13	-30.06	-68.48	-48.3	6.15	11.39	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



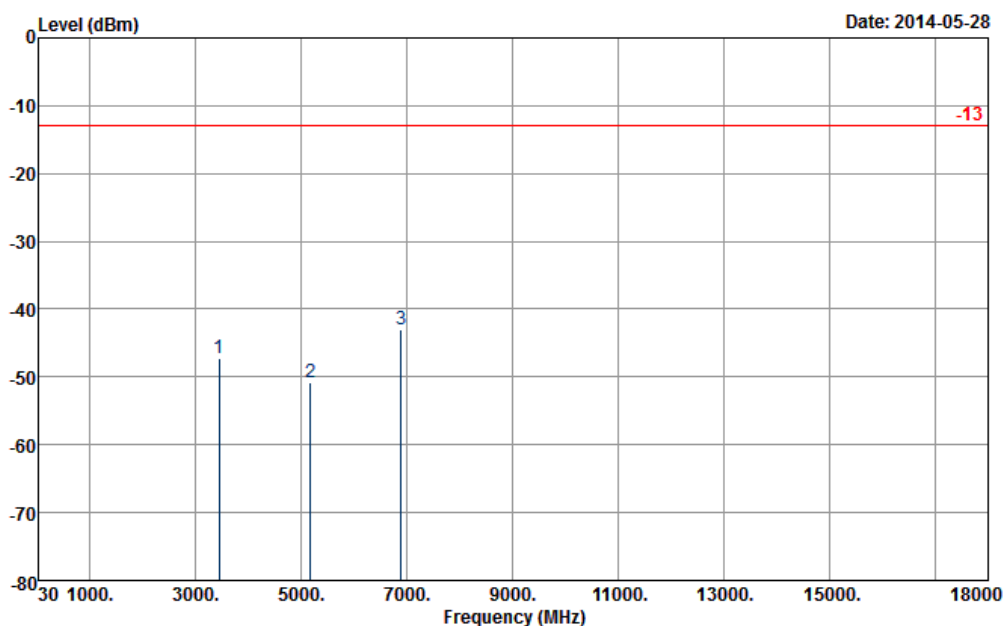
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-45.73	-13	-32.73	-61.37	-49.5	4.59	8.36	V	Pass
5131	-50.66	-13	-37.66	-69.23	-55.3	5.41	10.05	V	Pass
6842	-44.66	-13	-31.66	-69.21	-49.9	6.15	11.39	V	Pass



<Middle Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

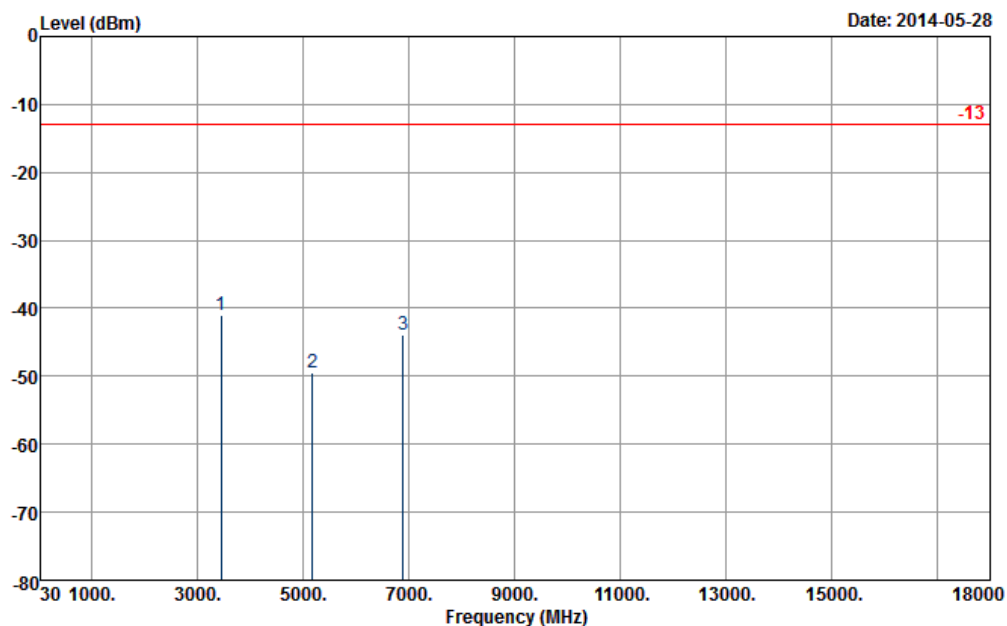


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-47.27	-13	-34.27	-61.72	-51.10	4.48	8.31	H	Pass
5175	-50.86	-13	-37.86	-69.24	-55.50	5.332	9.98	H	Pass
6900	-42.96	-13	-29.96	-68.52	-48.20	6.1	11.34	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



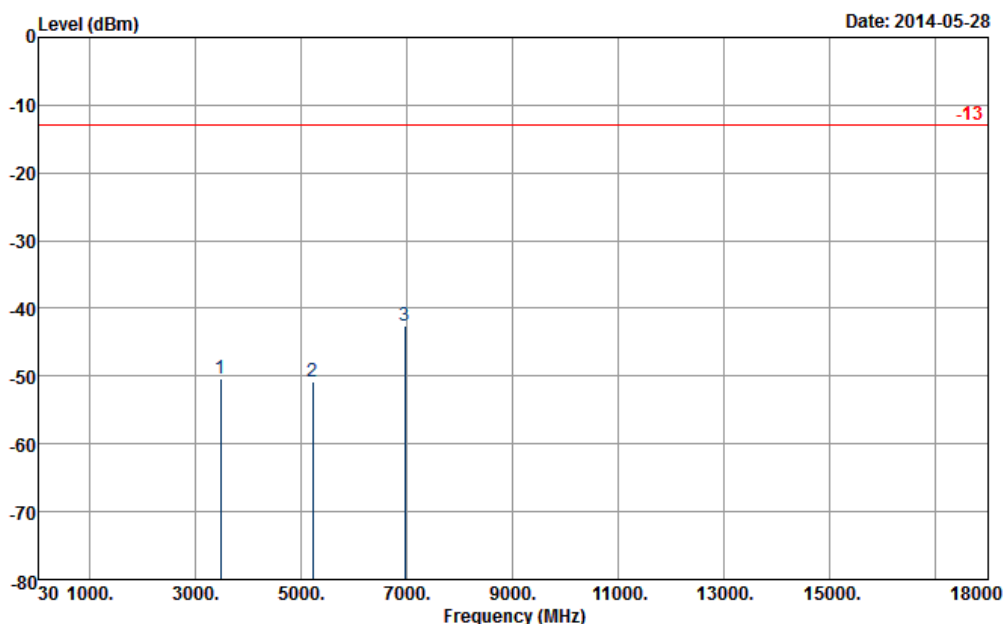
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-41.07	-13	-28.07	-57.1	-44.90	4.48	8.31	V	Pass
5175	-49.56	-13	-36.56	-68.68	-54.20	5.332	9.98	V	Pass
6900	-43.86	-13	-30.86	-68.99	-49.10	6.1	11.34	V	Pass



<High Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

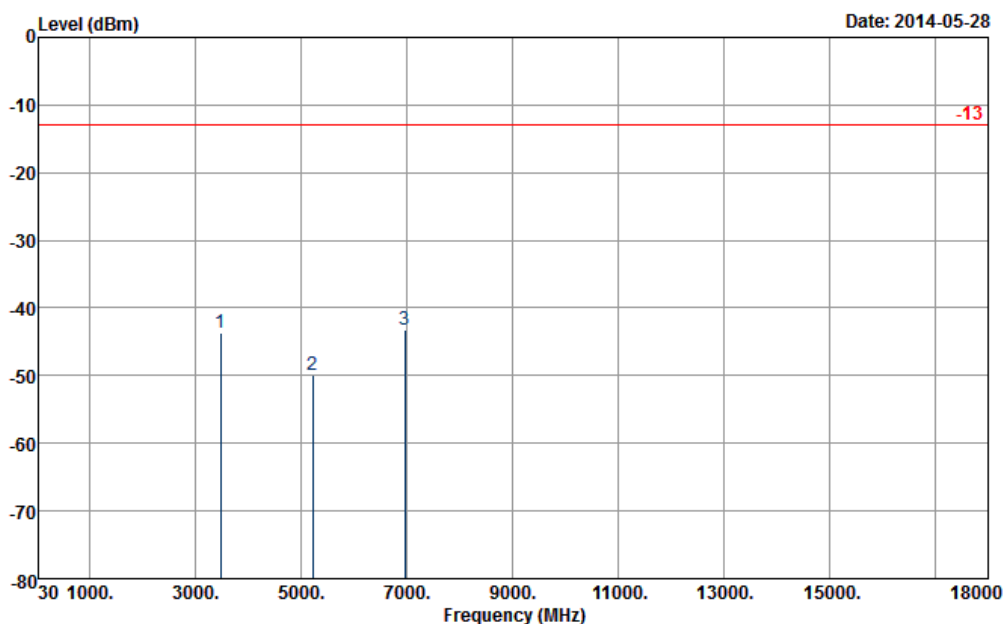


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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
3482	-50.36	-13	-37.36	-65.01	-54.5	4.24	8.38	H	Pass
5220	-50.73	-13	-37.73	-69.27	-55.6	5.18	10.05	H	Pass
6960	-42.61	-13	-29.61	-68.7	-47.8	6.19	11.38	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	15MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



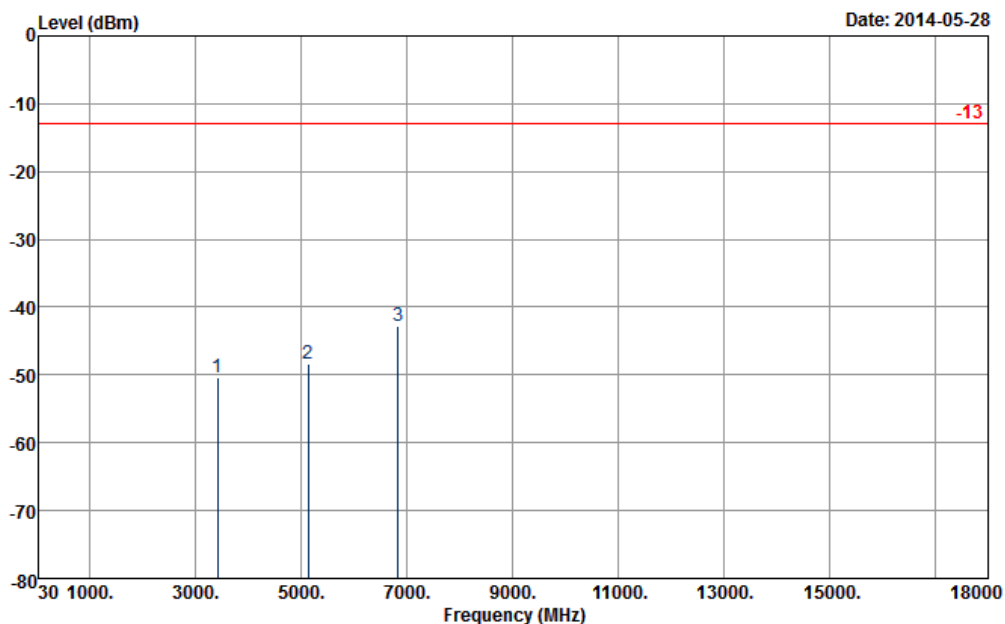
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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
3482	-43.76	-13	-30.76	-59.38	-47.9	4.24	8.38	V	Pass
5220	-49.93	-13	-36.93	-68.56	-54.8	5.18	10.05	V	Pass
6960	-43.31	-13	-30.31	-68.71	-48.5	6.19	11.38	V	Pass



<Low Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

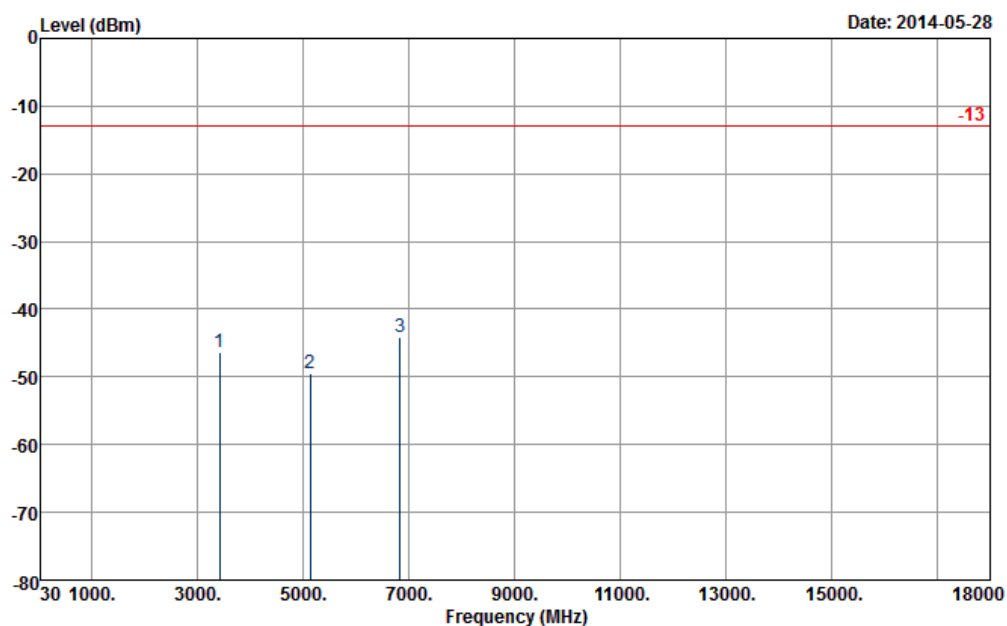


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-50.38	-13	-37.38	-64.76	-54.2	4.51	8.33	H	Pass
5130	-48.43	-13	-35.43	-66.58	-53.1	5.36	10.03	H	Pass
6841	-42.77	-13	-29.77	-68.47	-48	6.13	11.36	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

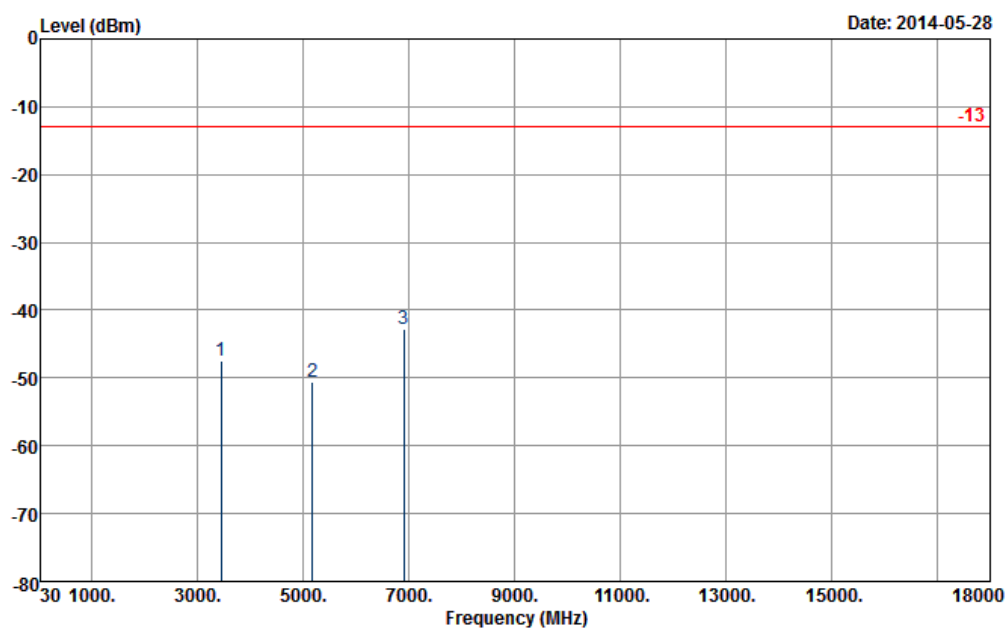


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-46.38	-13	-33.38	-61.86	-50.2	4.51	8.33	V	Pass
5130	-49.43	-13	-36.43	-67.91	-54.1	5.36	10.03	V	Pass
6841	-44.17	-13	-31.17	-68.7	-49.4	6.13	11.36	V	Pass

<Middle Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

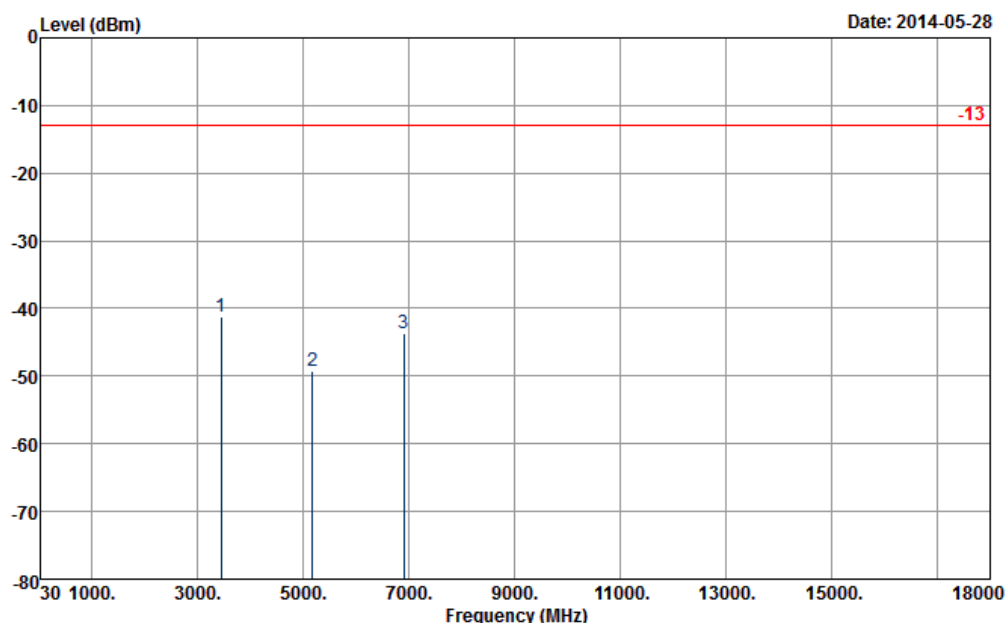


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-47.57	-13	-34.57	-61.94	-51.40	4.48	8.31	H	Pass
5183	-50.56	-13	-37.56	-68.81	-55.20	5.332	9.98	H	Pass
6910	-42.86	-13	-29.86	-68.75	-48.10	6.1	11.34	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



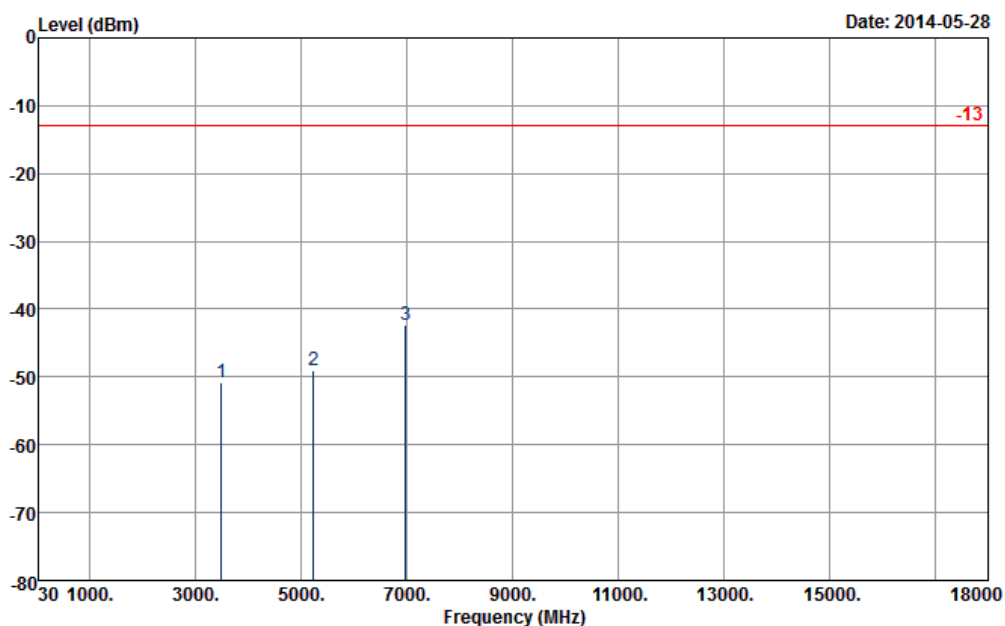
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-41.27	-13	-28.27	-56.83	-45.10	4.48	8.31	V	Pass
5183	-49.16	-13	-36.16	-68.12	-53.80	5.332	9.98	V	Pass
6910	-43.76	-13	-30.76	-68.96	-49.00	6.1	11.34	V	Pass



<High Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

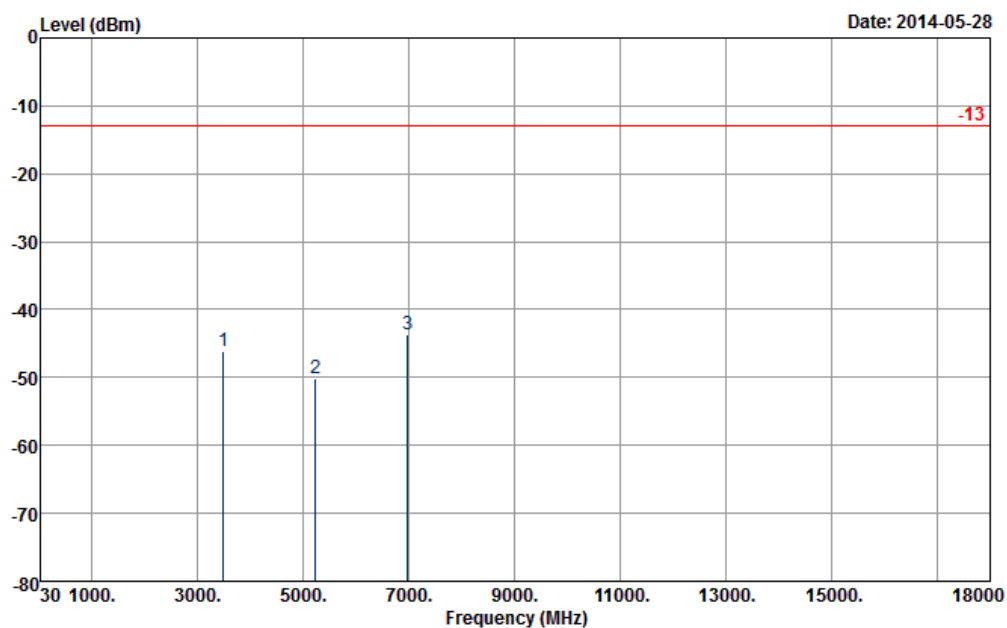


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-50.81	-13	-37.81	-65.19	-55	4.2	8.39	H	Pass
5231	-49.02	-13	-36.02	-67.84	-53.9	5.17	10.05	H	Pass
6980	-42.30	-13	-29.30	-68.49	-47.5	6.2	11.40	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



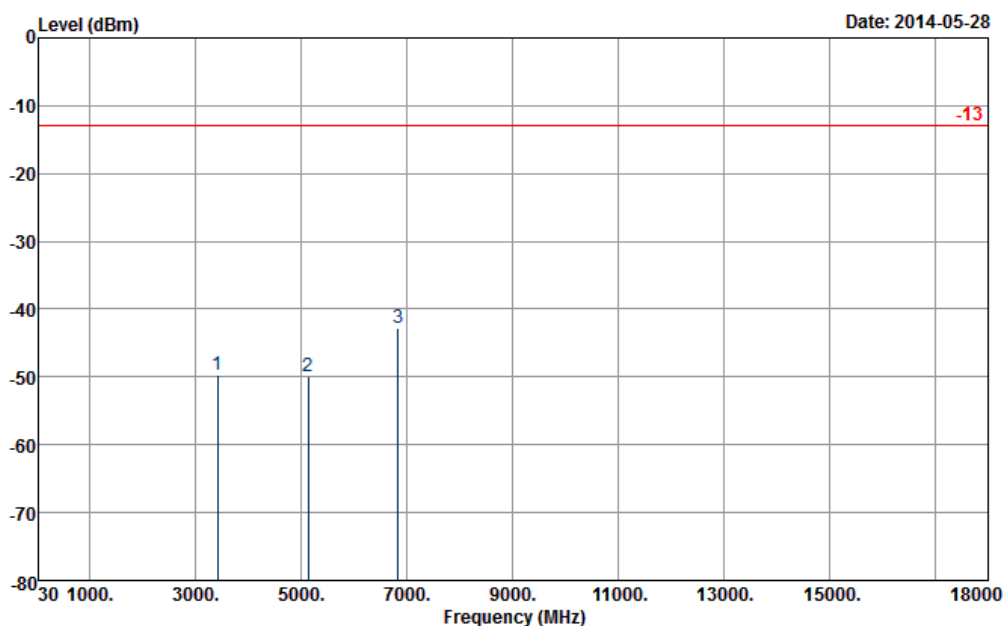
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-46.11	-13	-33.11	-61.74	-50.3	4.2	8.39	V	Pass
5231	-50.22	-13	-37.22	-68.9	-55.1	5.17	10.05	V	Pass
6980	-43.60	-13	-30.60	-68.66	-48.8	6.2	11.40	V	Pass



<Low Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

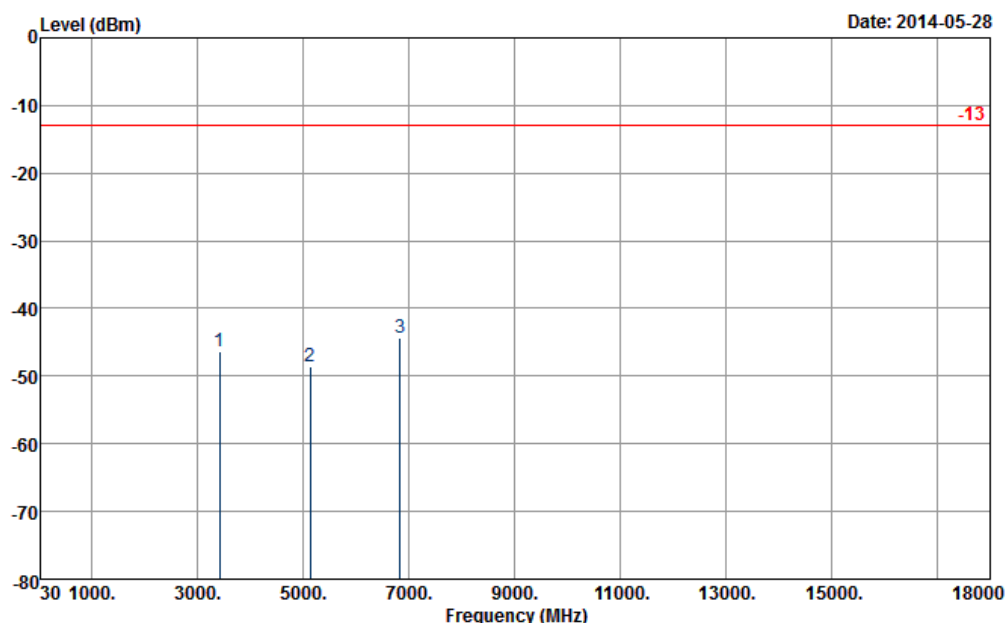


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-49.67	-13	-36.67	-64.31	-53.50	4.48	8.31	H	Pass
5130	-49.96	-13	-36.96	-68.07	-54.60	5.332	9.98	H	Pass
6840	-42.76	-13	-29.76	-68.3	-48.00	6.1	11.34	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



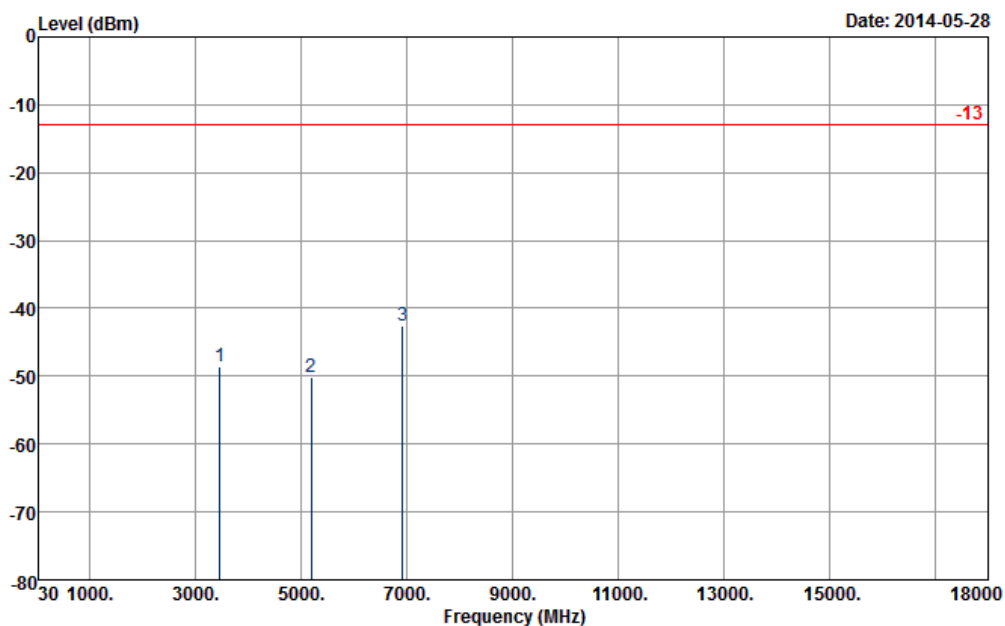
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-46.27	-13	-33.27	-62.03	-50.10	4.48	8.31	V	Pass
5130	-48.56	-13	-35.56	-67.05	-53.20	5.332	9.98	V	Pass
6840	-44.26	-13	-31.26	-69.04	-49.50	6.1	11.34	V	Pass



<Middle Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

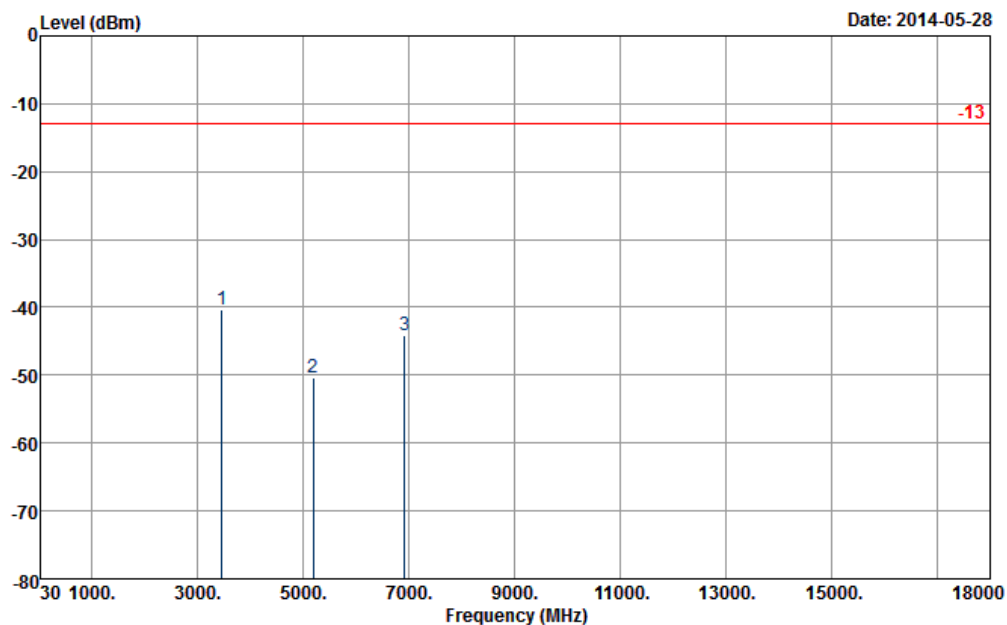


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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
3460	-48.47	-13	-35.47	-62.88	-52.30	4.48	8.31	H	Pass
5190	-50.06	-13	-37.06	-68.62	-54.70	5.332	9.98	H	Pass
6922	-42.46	-13	-29.46	-68.35	-47.70	6.1	11.34	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



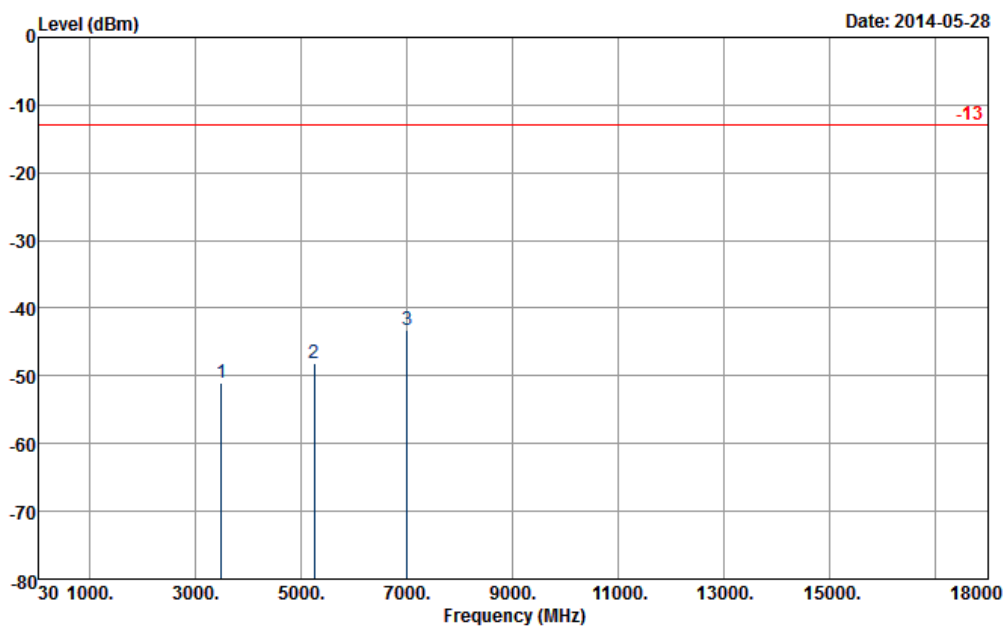
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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
3460	-40.27	-13	-27.27	-55.93	-44.10	4.48	8.31	V	Pass
5190	-50.46	-13	-37.46	-68.84	-55.10	5.332	9.98	V	Pass
6922	-44.06	-13	-31.06	-69.3	-49.30	6.1	11.34	V	Pass



<High Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

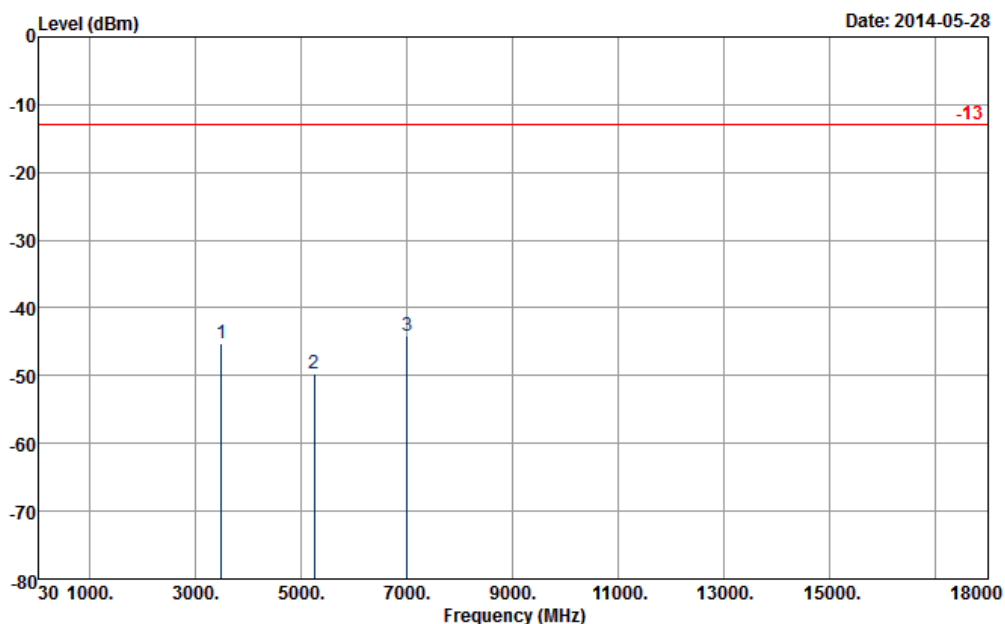


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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
3500	-50.93	-13	-37.93	-64.96	-55.2	4.16	8.43	H	Pass
5250	-48.14	-13	-35.14	-67.11	-53.1	5.13	10.09	H	Pass
7001	-43.32	-13	-30.32	-69.69	-48.6	6.15	11.43	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



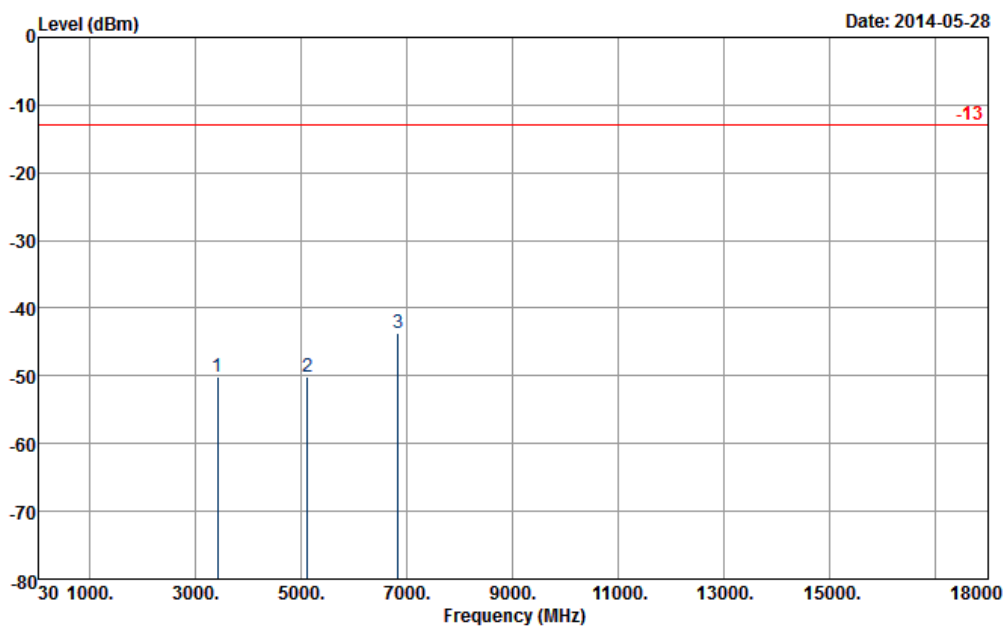
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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
3500	-45.23	-13	-32.23	-61.3	-49.5	4.16	8.43	V	Pass
5250	-49.74	-13	-36.74	-68.74	-54.7	5.13	10.09	V	Pass
7001	-44.02	-13	-31.02	-69.07	-49.3	6.15	11.43	V	Pass



<Low Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

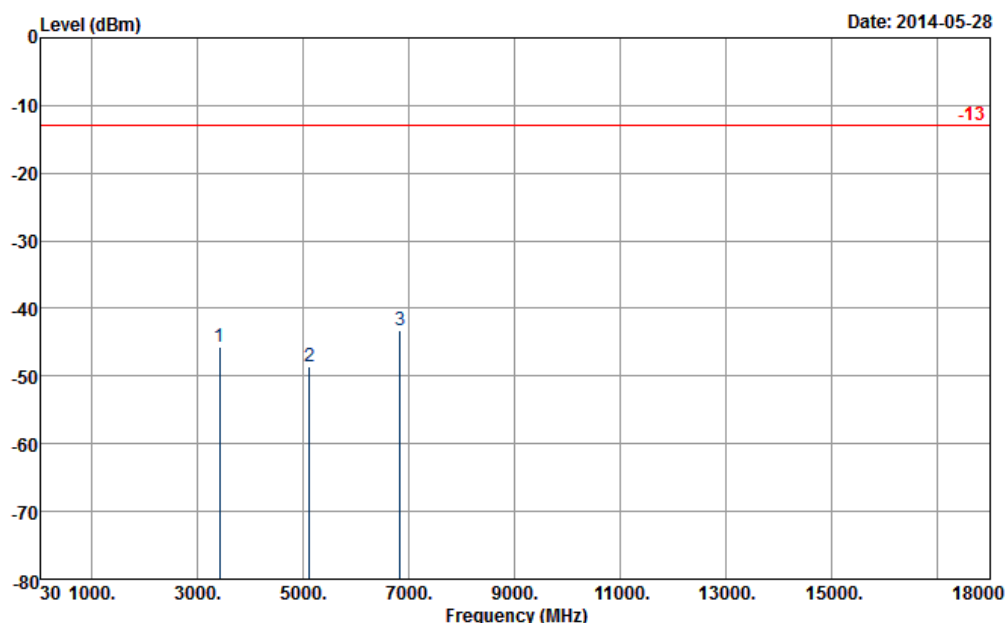


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-50.22	-13	-37.22	-64.76	-54.1	4.43	8.31	H	Pass
5128	-50.13	-13	-37.13	-68.31	-54.7	5.31	9.88	H	Pass
6843	-43.57	-13	-30.57	-68.92	-48.9	6.02	11.35	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

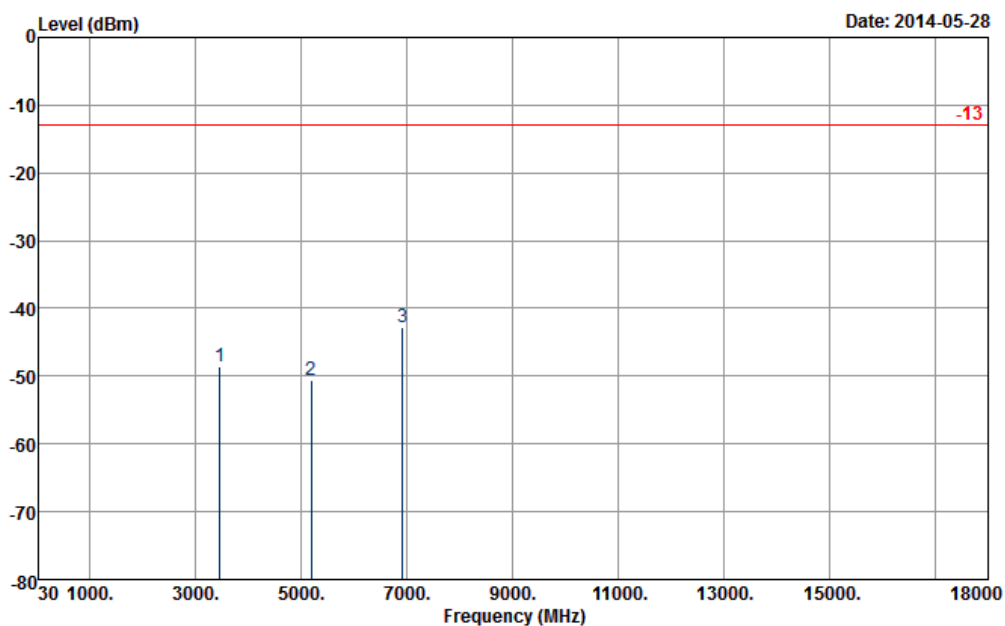


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-45.62	-13	-32.62	-61.6	-49.5	4.43	8.31	V	Pass
5128	-48.53	-13	-35.53	-67.37	-53.1	5.31	9.88	V	Pass
6843	-43.17	-13	-30.17	-68.57	-48.5	6.02	11.35	V	Pass

<Middle Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

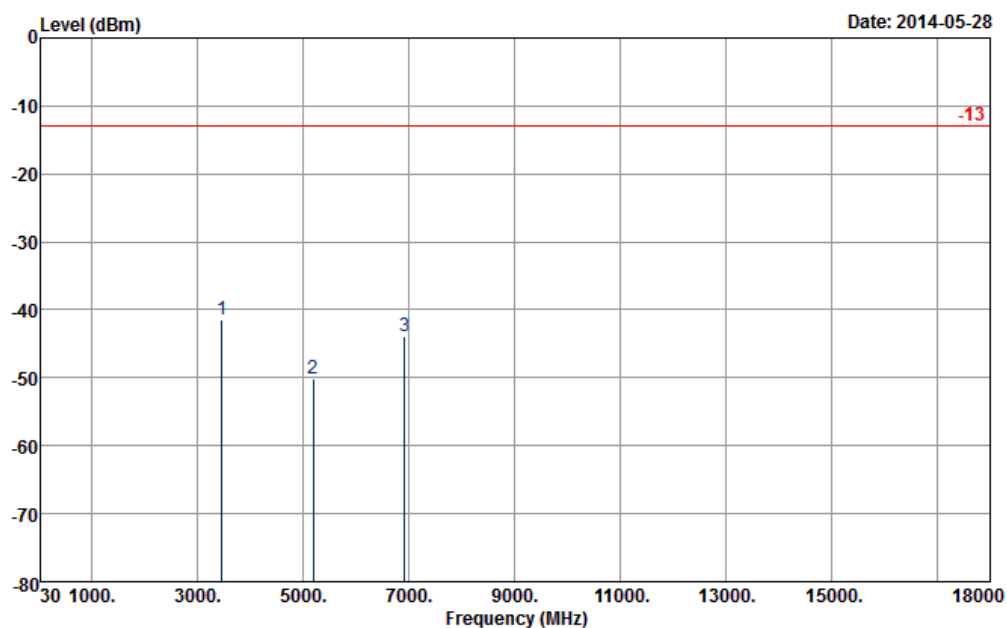


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-48.57	-13	-35.57	-62.97	-52.40	4.48	8.31	H	Pass
5190	-50.56	-13	-37.56	-69.06	-55.20	5.332	9.98	H	Pass
6927	-42.76	-13	-29.76	-68.7	-48.00	6.1	11.34	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



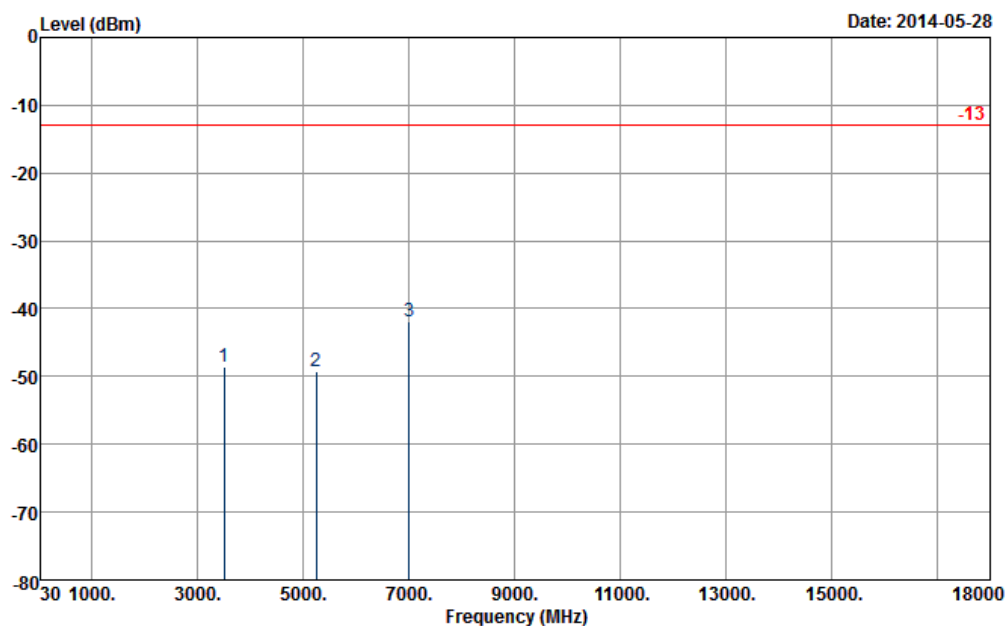
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-41.47	-13	-28.47	-57.44	-45.30	4.48	8.31	V	Pass
5190	-50.16	-13	-37.16	-68.91	-54.80	5.332	9.98	V	Pass
6927	-43.96	-13	-30.96	-69.46	-49.20	6.1	11.34	V	Pass



<High Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

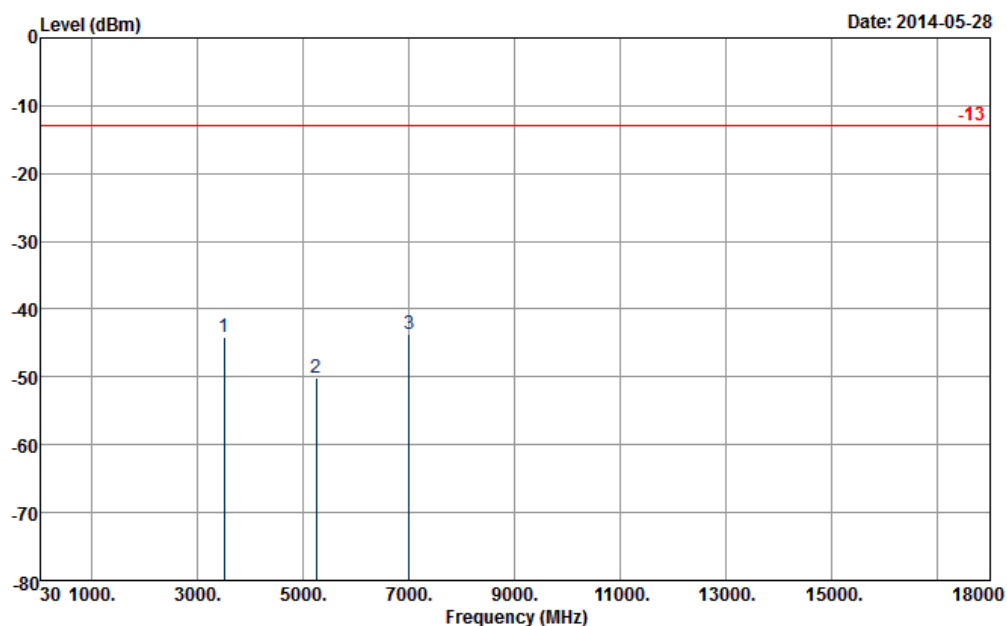


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-48.63	-13	-35.63	-63.62	-52.90	4.14	8.41	H	Pass
5255	-49.35	-13	-36.35	-68.78	-54.30	5.12	10.07	H	Pass
7010	-41.91	-13	-28.91	-68.39	-47.20	6.13	11.42	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



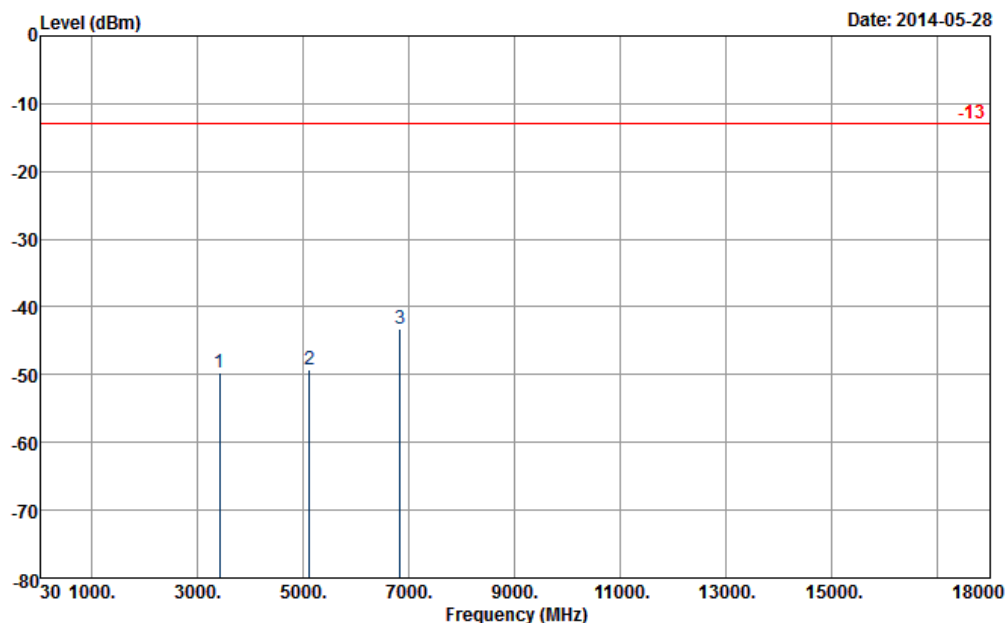
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-44.13	-13	-31.13	-60.14	-48.40	4.14	8.41	V	Pass
5255	-50.05	-13	-37.05	-68.91	-55.00	5.12	10.07	V	Pass
7010	-43.61	-13	-30.61	-69.32	-48.90	6.13	11.42	V	Pass



<Low Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

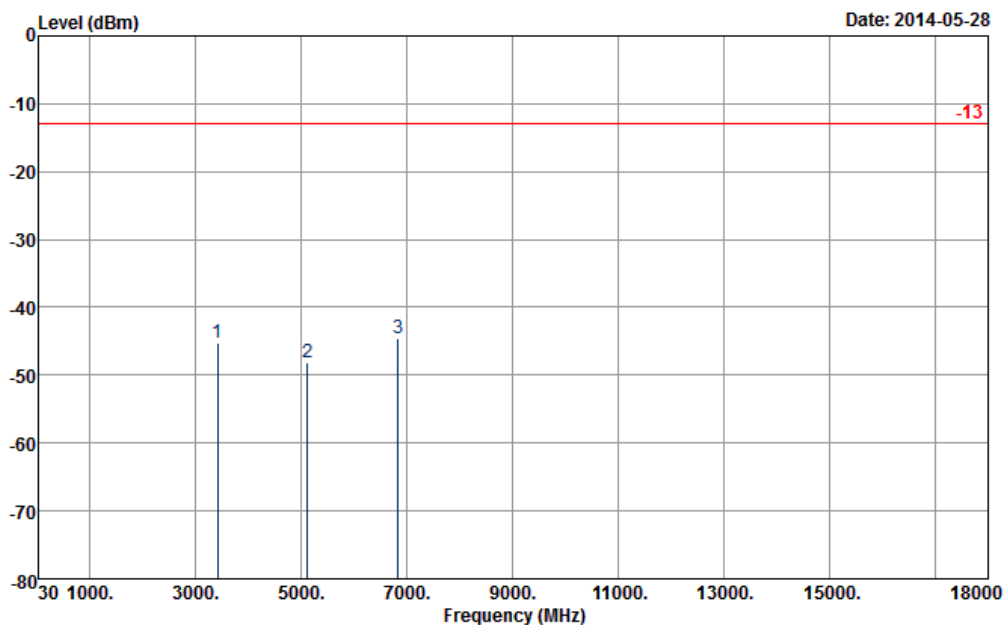


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-49.63	-13	-36.63	-63.9	-53.5	4.41	8.28	H	Pass
5128	-49.33	-13	-36.33	-67.95	-53.9	5.28	9.85	H	Pass
6843	-43.27	-13	-30.27	-69.15	-48.5	6.01	11.24	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



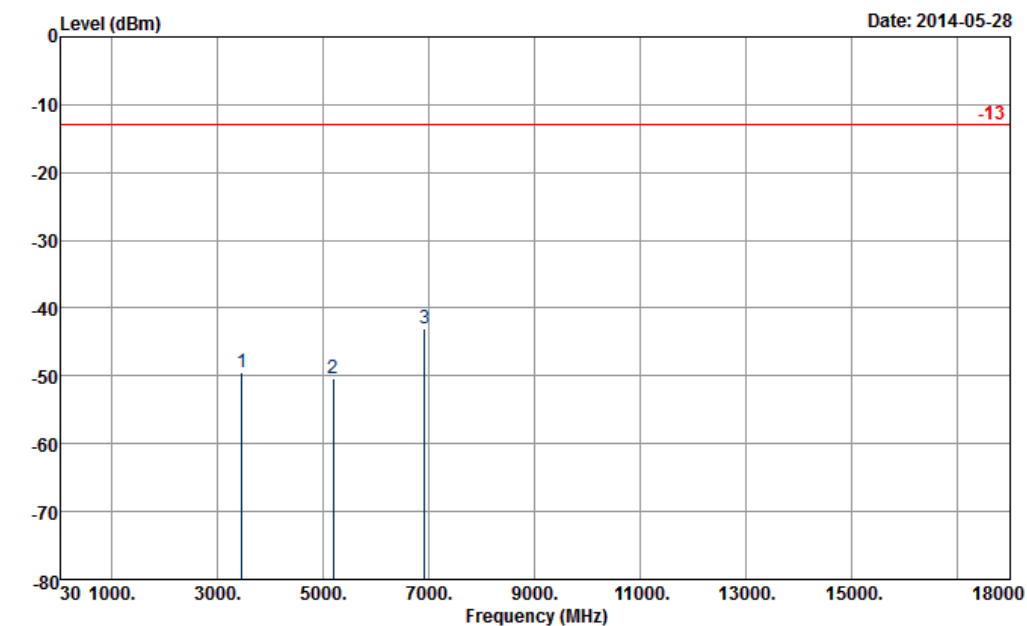
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-45.23	-13	-32.23	-61.39	-49.1	4.41	8.28	V	Pass
5128	-48.23	-13	-35.23	-67.1	-52.8	5.28	9.85	V	Pass
6843	-44.57	-13	-31.57	-68.93	-49.8	6.01	11.24	V	Pass



<Middle Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

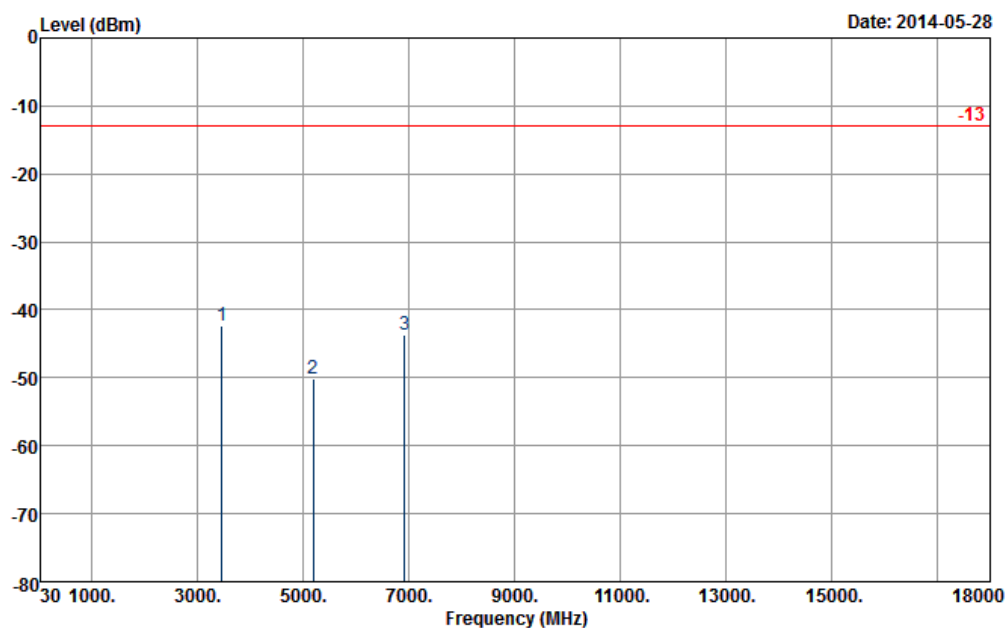


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-49.37	-13	-36.37	-64.05	-53.20	4.48	8.31	H	Pass
5198	-50.36	-13	-37.36	-68.84	-55.00	5.332	9.98	H	Pass
6927	-43.06	-13	-30.06	-68.89	-48.30	6.1	11.34	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



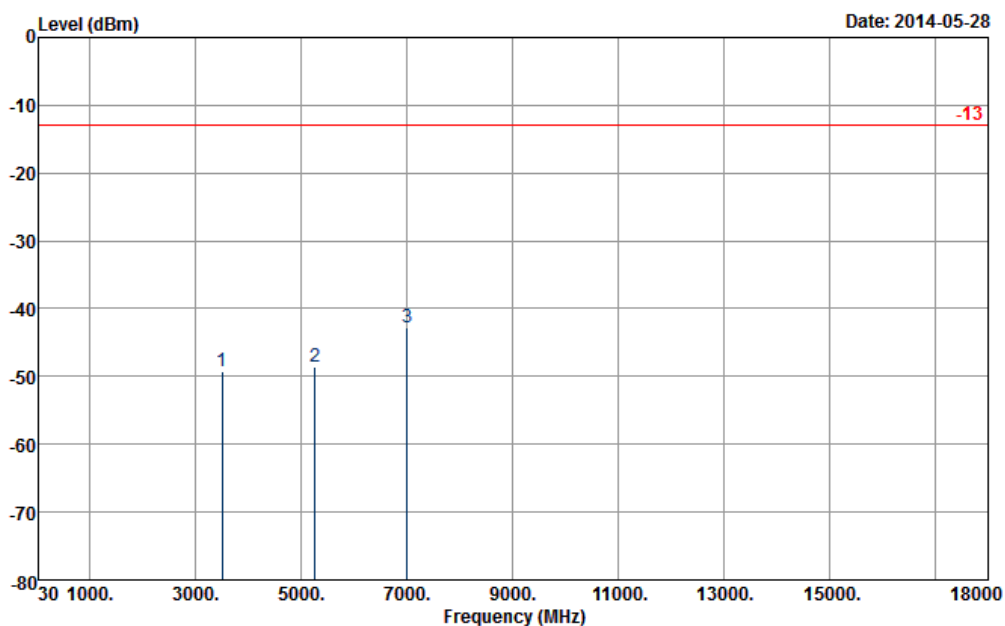
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-42.27	-13	-29.27	-58.1	-46.10	4.48	8.31	V	Pass
5198	-50.06	-13	-37.06	-68.96	-54.70	5.332	9.98	V	Pass
6927	-43.66	-13	-30.66	-68.6	-48.90	6.1	11.34	V	Pass



<High Channel>

Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

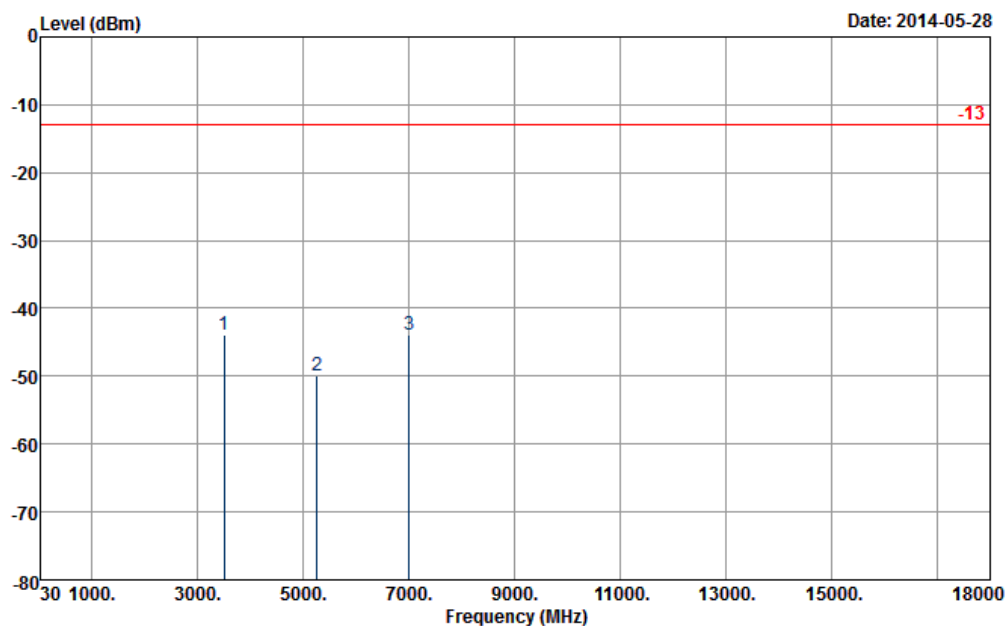


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-49.23	-13	-36.23	-63.59	-53.50	4.14	8.41	H	Pass
5261	-48.55	-13	-35.55	-68.08	-53.50	5.12	10.07	H	Pass
7011	-42.81	-13	-29.81	-69.62	-48.10	6.13	11.42	H	Pass



Band :	LTE Band 4	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

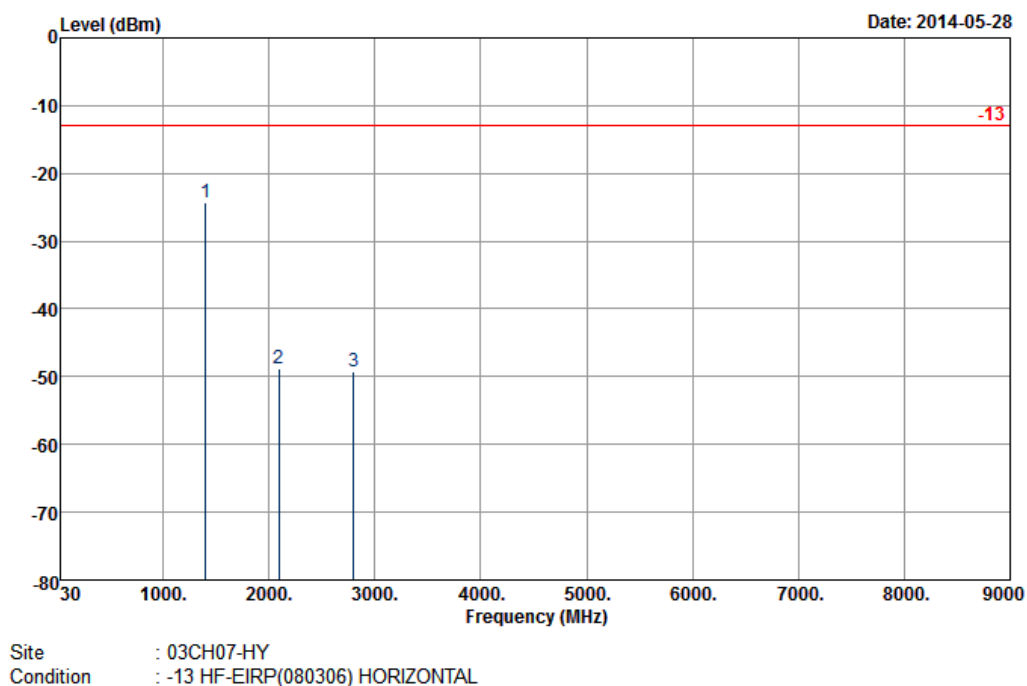


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-43.83	-13	-30.83	-59.54	-48.10	4.14	8.41	V	Pass
5261	-49.95	-13	-36.95	-68.97	-54.90	5.12	10.07	V	Pass
7011	-43.91	-13	-30.91	-68.9	-49.20	6.13	11.42	V	Pass

<Low Channel>

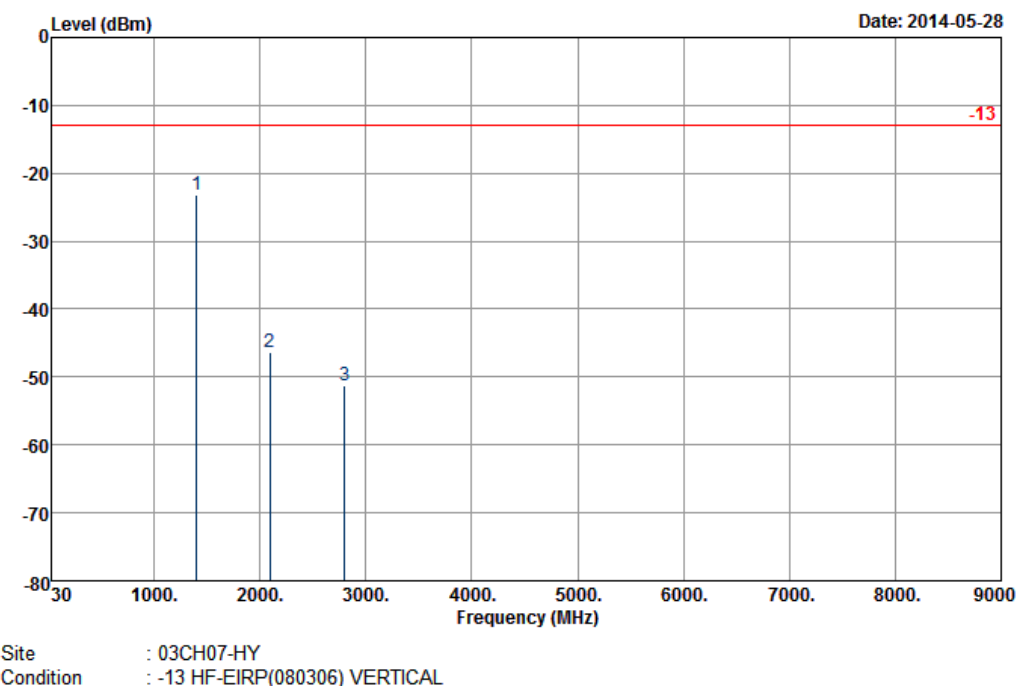
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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
1400	-24.35	-13	-11.35	-32.54	-26.13	1.46	5.39	H	Pass
2096	-48.74	-13	-35.74	-59.65	-50.87	1.75	6.03	H	Pass
2800	-49.34	-13	-36.34	-62.7	-52.55	2.16	7.52	H	Pass



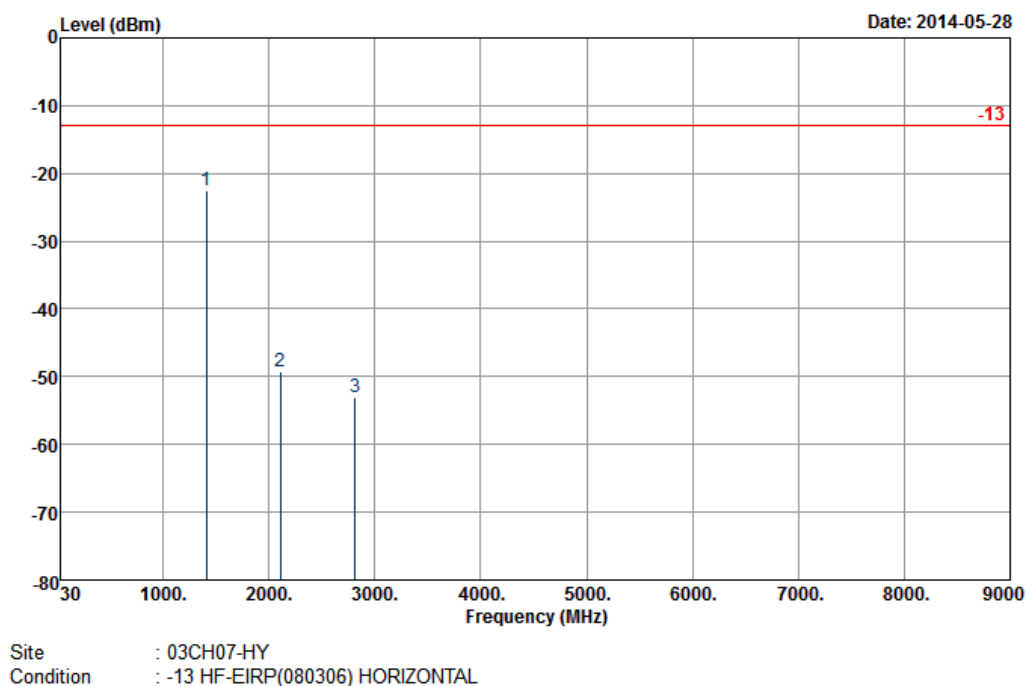
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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
1400	-23.24	-13	-10.24	-33.61	-25.02	1.46	5.39	V	Pass
2096	-46.31	-13	-33.31	-59.3	-48.44	1.75	6.03	V	Pass
2800	-51.20	-13	-38.20	-66.02	-54.41	2.16	7.52	V	Pass

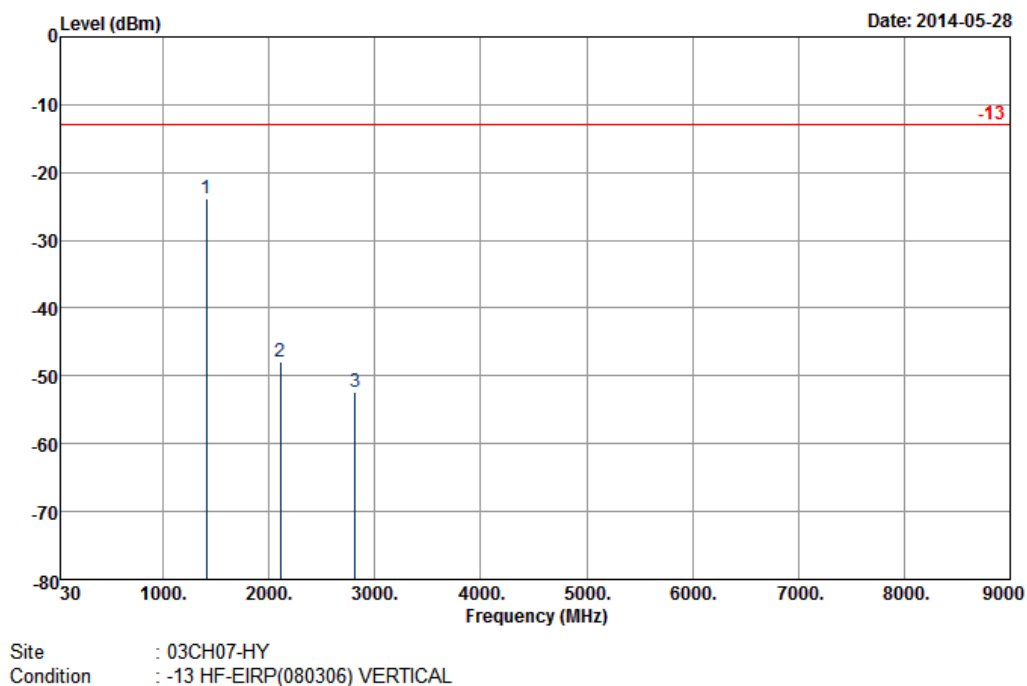
<Middle Channel>

Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	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	-22.55	-13	-9.55	-30.7	-24.25	1.47	5.32	H	Pass
2112	-49.20	-13	-36.20	-60.3	-51.17	1.86	5.98	H	Pass
2816	-53.09	-13	-40.09	-66.59	-56.16	2.21	7.43	H	Pass

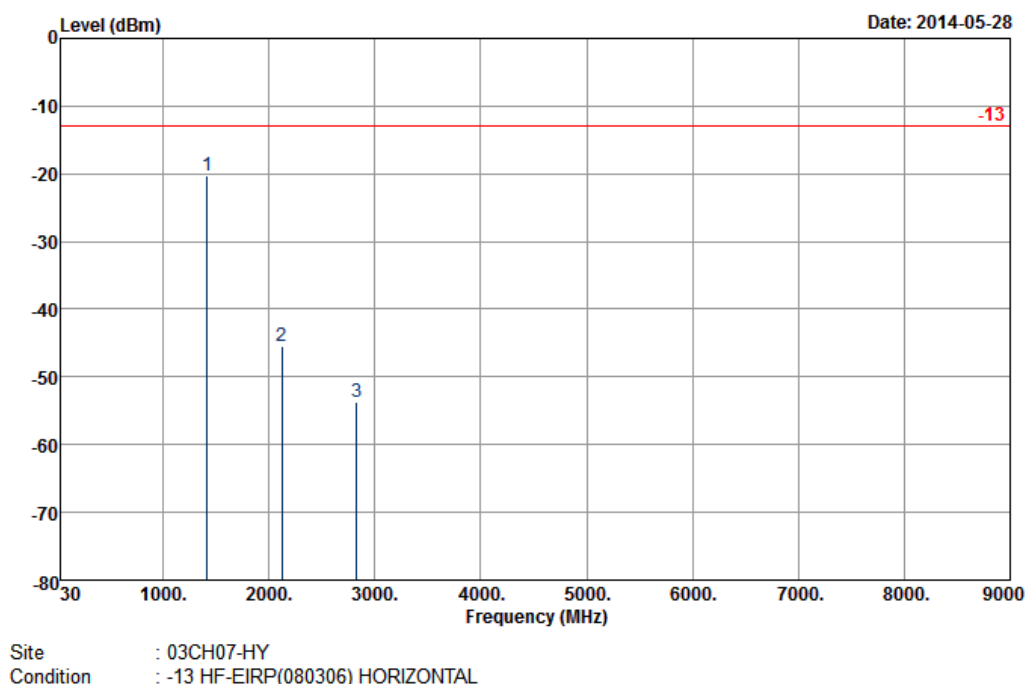
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-23.78	-13	-10.78	-34.15	-25.48	1.47	5.32	V	Pass
2112	-47.87	-13	-34.87	-60.92	-49.84	1.86	5.98	V	Pass
2816	-52.42	-13	-39.42	-67.33	-55.49	2.21	7.43	V	Pass

<High Channel>

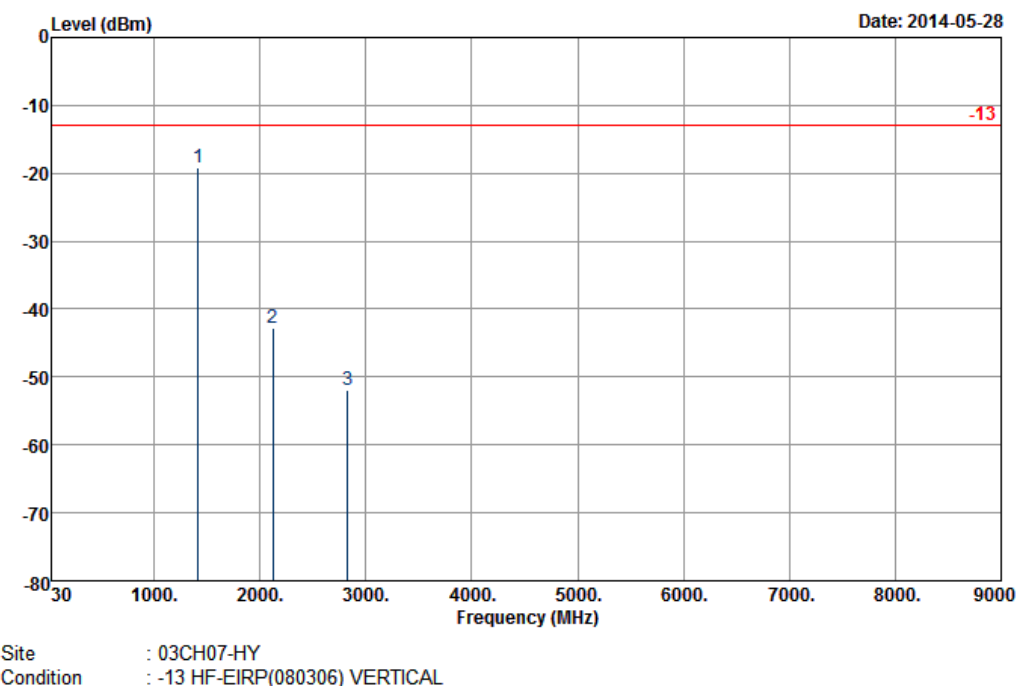
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-20.31	-13	-7.31	-28.37	-22.01	1.48	5.33	H	Pass
2120	-45.36	-13	-32.36	-56.46	-47.41	1.83	6.03	H	Pass
2832	-53.69	-13	-40.69	-67.09	-56.77	2.2	7.43	H	Pass



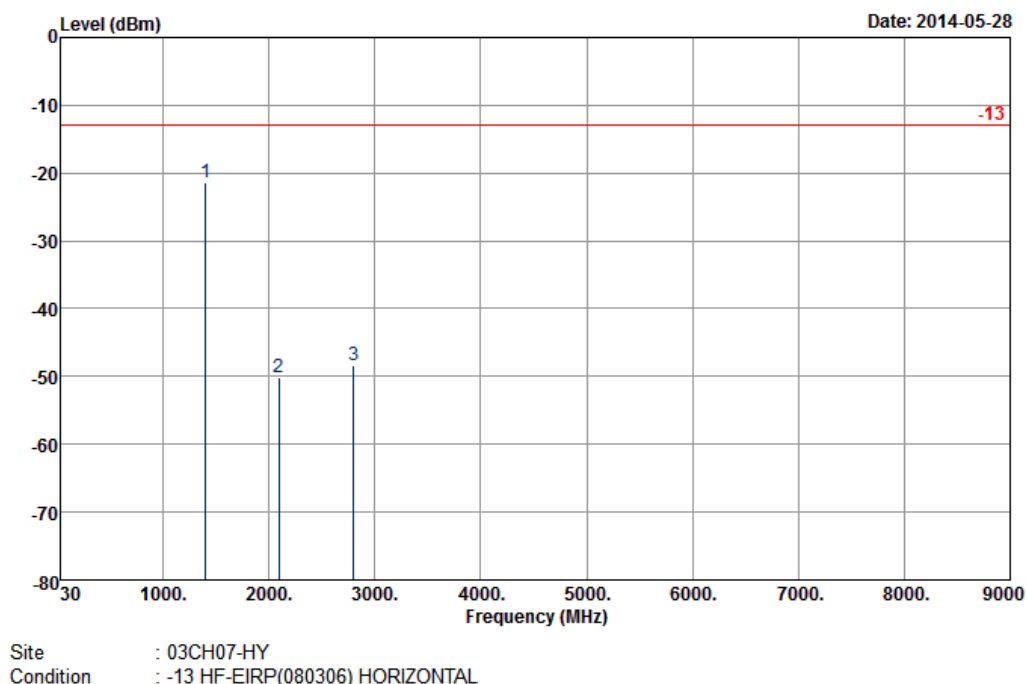
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-19.16	-13	-6.16	-29.59	-20.86	1.48	5.33	V	Pass
2120	-42.70	-13	-29.70	-55.87	-44.75	1.83	6.03	V	Pass
2832	-51.95	-13	-38.95	-66.99	-55.03	2.2	7.43	V	Pass

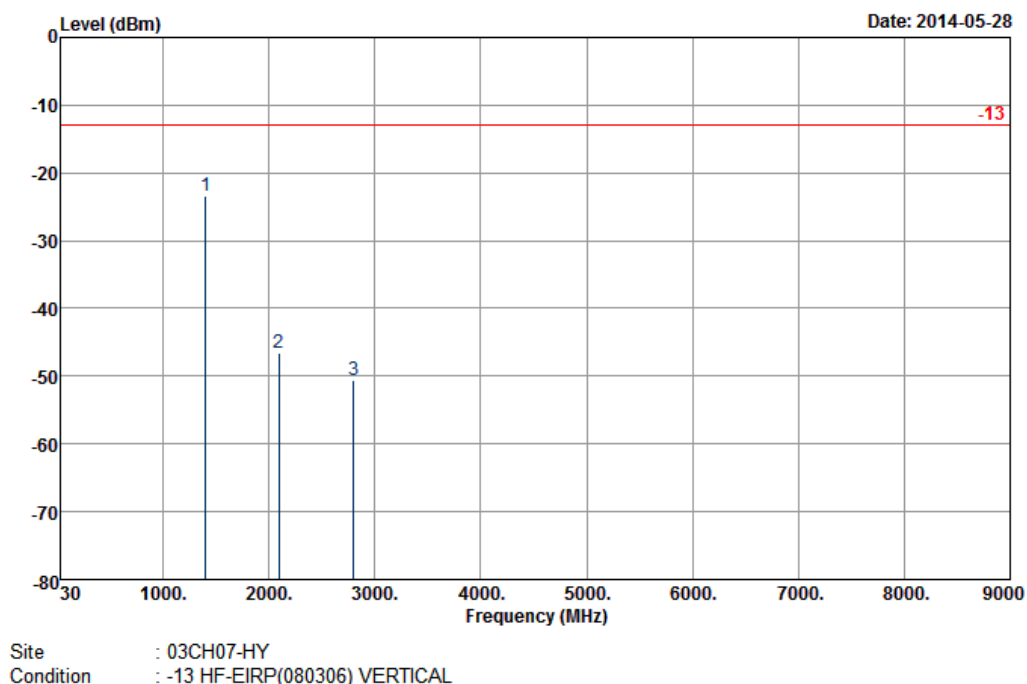
<Low Channel>

Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	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
1400	-21.50	-13	-8.50	-29.72	-23.25	1.44	5.34	H	Pass
2096	-50.15	-13	-37.15	-61.13	-52.19	1.72	5.91	H	Pass
2800	-48.44	-13	-35.44	-61.84	-51.62	2.13	7.46	H	Pass

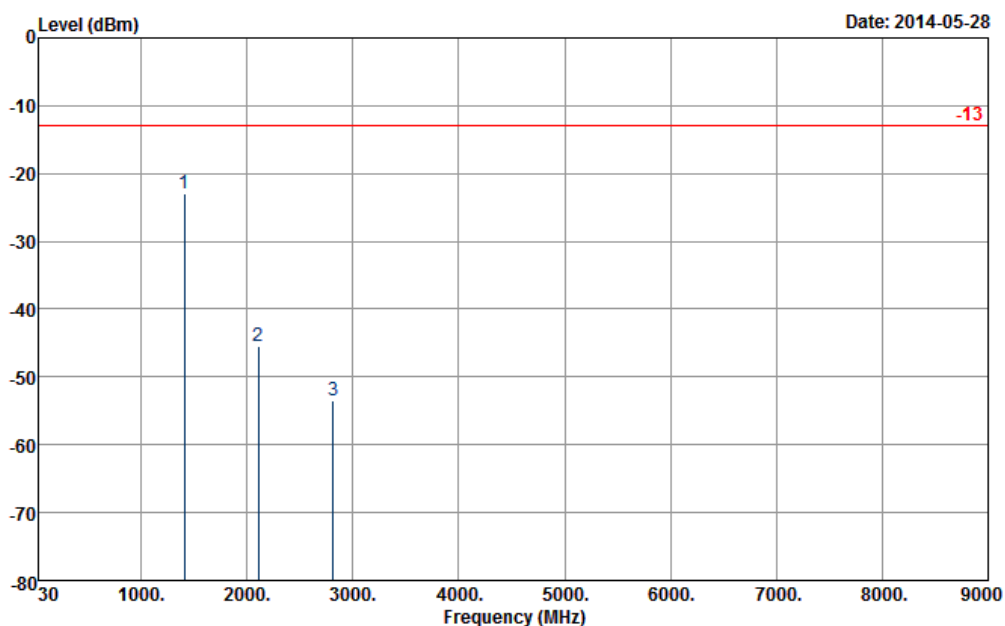
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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
1400	-23.41	-13	-10.41	-33.86	-25.16	1.44	5.34	V	Pass
2096	-46.51	-13	-33.51	-59.49	-48.55	1.72	5.91	V	Pass
2800	-50.56	-13	-37.56	-65.22	-53.74	2.13	7.46	V	Pass

<Middle Channel>

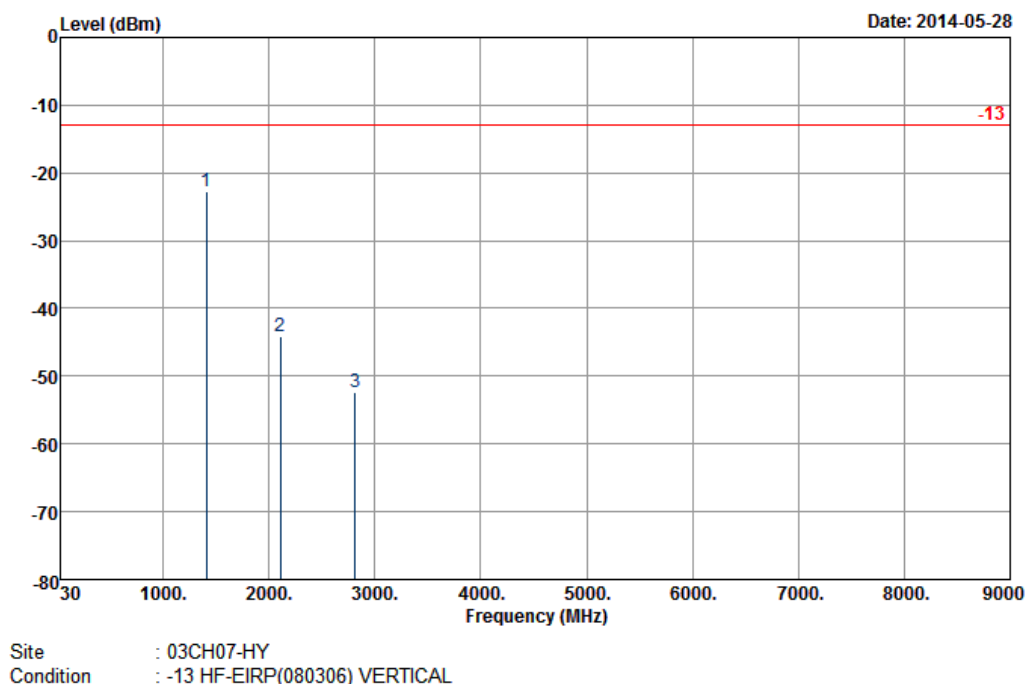
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-22.90	-13	-9.90	-30.99	-24.6	1.47	5.32	H	Pass
2112	-45.36	-13	-32.36	-56.46	-47.33	1.86	5.98	H	Pass
2816	-53.44	-13	-40.44	-66.94	-56.51	2.21	7.43	H	Pass

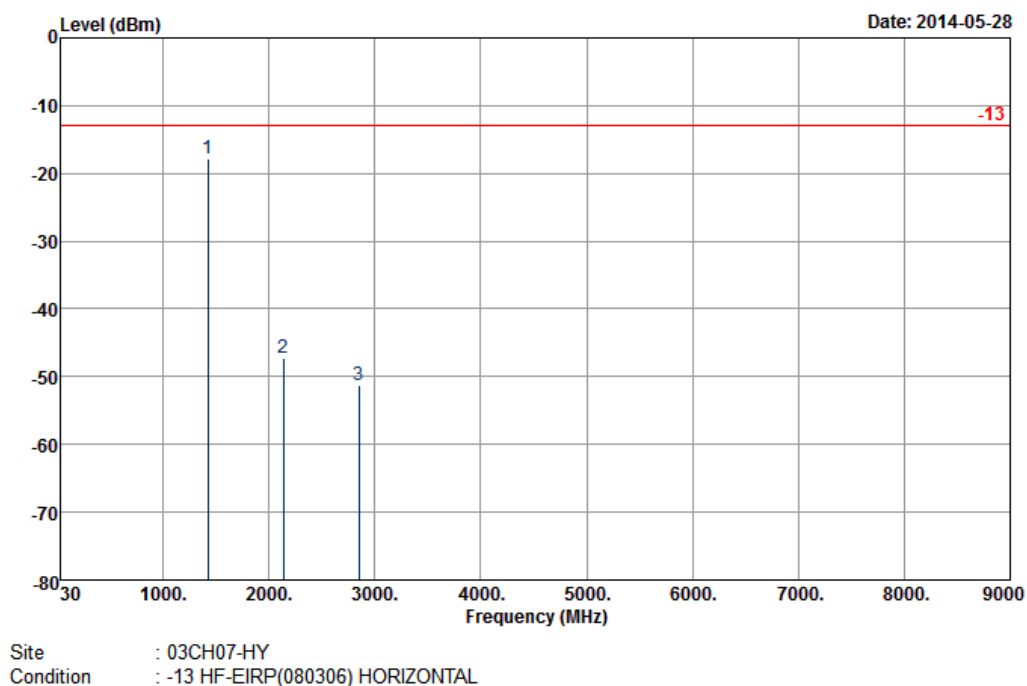
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-22.71	-13	-9.71	-33.08	-24.41	1.47	5.32	V	Pass
2112	-44.03	-13	-31.03	-57.08	-46	1.86	5.98	V	Pass
2816	-52.47	-13	-39.47	-67.47	-55.54	2.21	7.43	V	Pass

<High Channel>

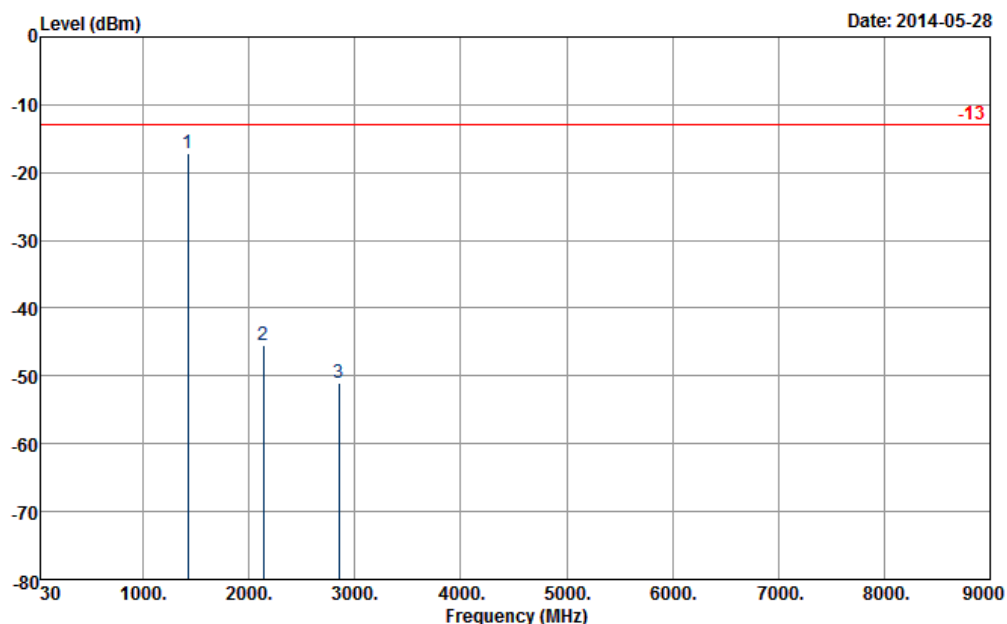
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-17.92	-13	-4.92	-25.88	-19.63	1.5	5.36	H	Pass
2136	-47.29	-13	-34.29	-58.53	-49.35	1.85	6.06	H	Pass
2848	-51.19	-13	-38.19	-64.71	-54.28	2.21	7.45	H	Pass



Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



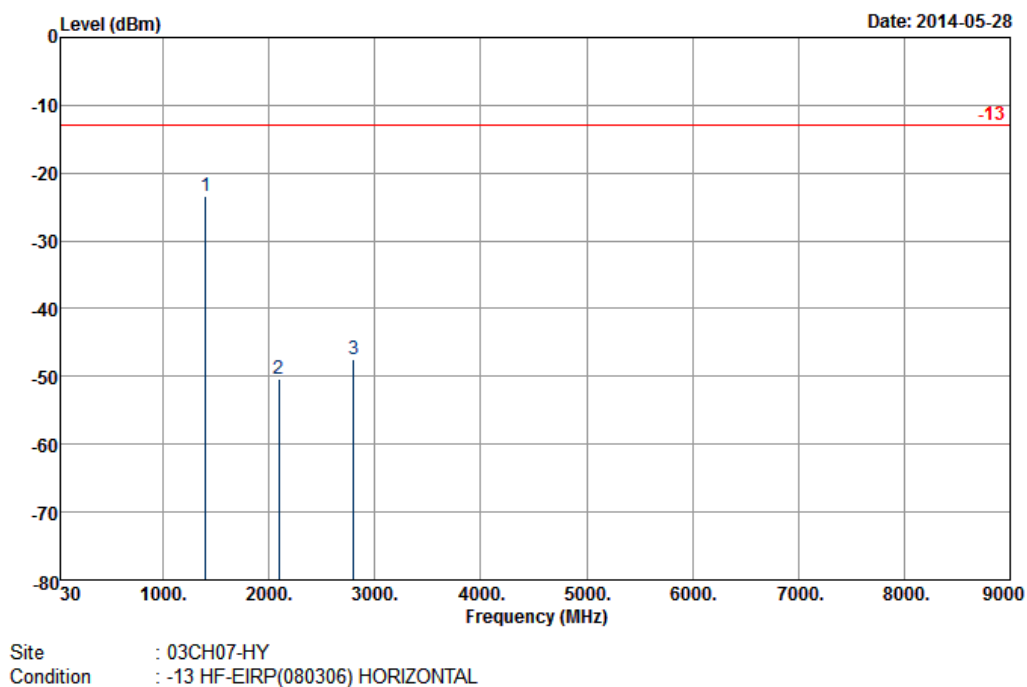
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-17.07	-13	-4.07	-27.33	-18.78	1.5	5.36	V	Pass
2136	-45.50	-13	-32.50	-58.56	-47.56	1.85	6.06	V	Pass
2848	-51.03	-13	-38.03	-66.25	-54.12	2.21	7.45	V	Pass



<Low Channel>

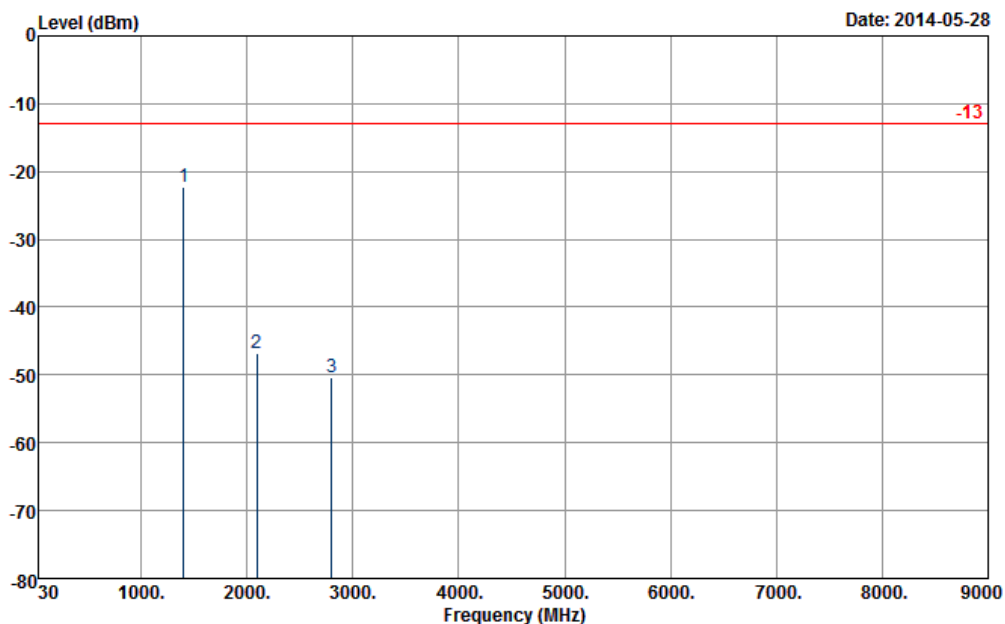
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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
1400	-23.50	-13	-10.50	-31.68	-25.14	1.42	5.21	H	Pass
2096	-50.32	-13	-37.32	-61.44	-52.33	1.7	5.86	H	Pass
2800	-47.47	-13	-34.47	-60.88	-50.57	2.09	7.34	H	Pass



Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



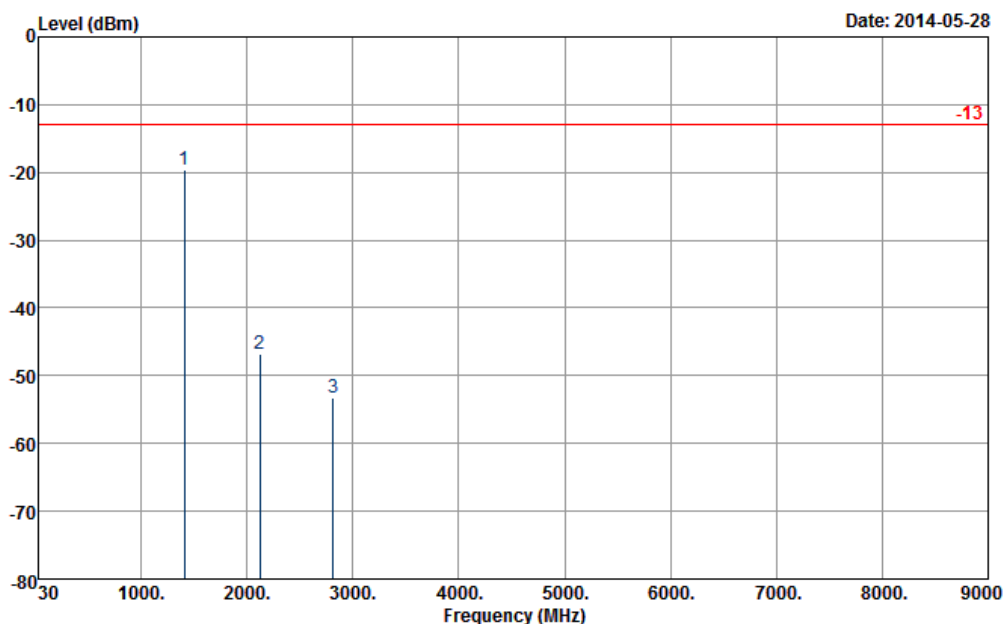
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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
1400	-22.37	-13	-9.37	-32.71	-24.01	1.42	5.21	V	Pass
2096	-46.70	-13	-33.70	-59.77	-48.71	1.7	5.86	V	Pass
2800	-50.42	-13	-37.42	-65.36	-53.52	2.09	7.34	V	Pass



<Middle Channel>

Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

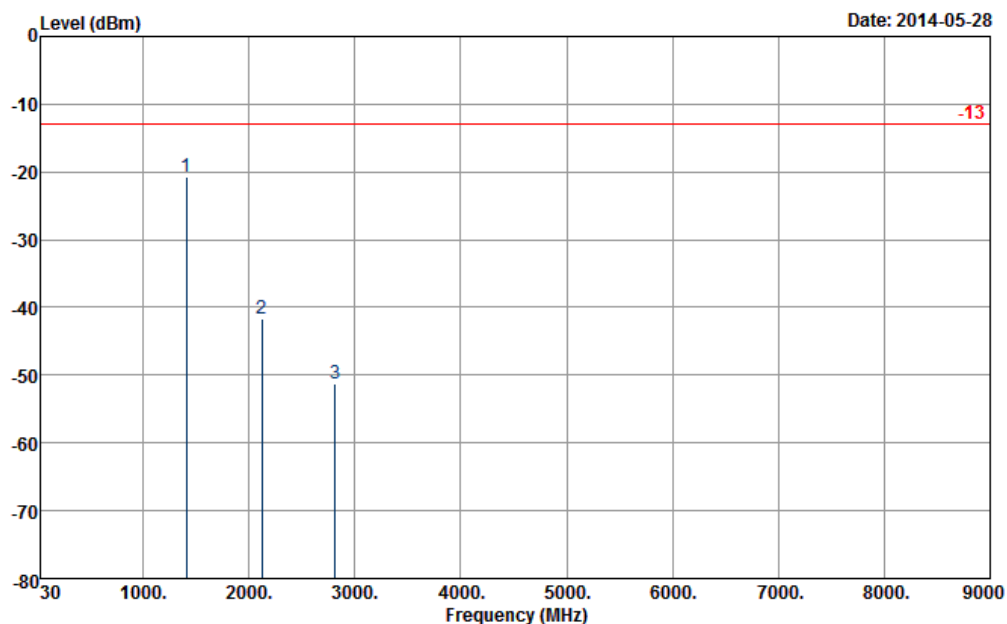


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-19.60	-13	-6.60	-27.79	-21.3	1.47	5.32	H	Pass
2120	-46.71	-13	-33.71	-57.9	-48.68	1.86	5.98	H	Pass
2816	-53.32	-13	-40.32	-66.75	-56.39	2.21	7.43	H	Pass



Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

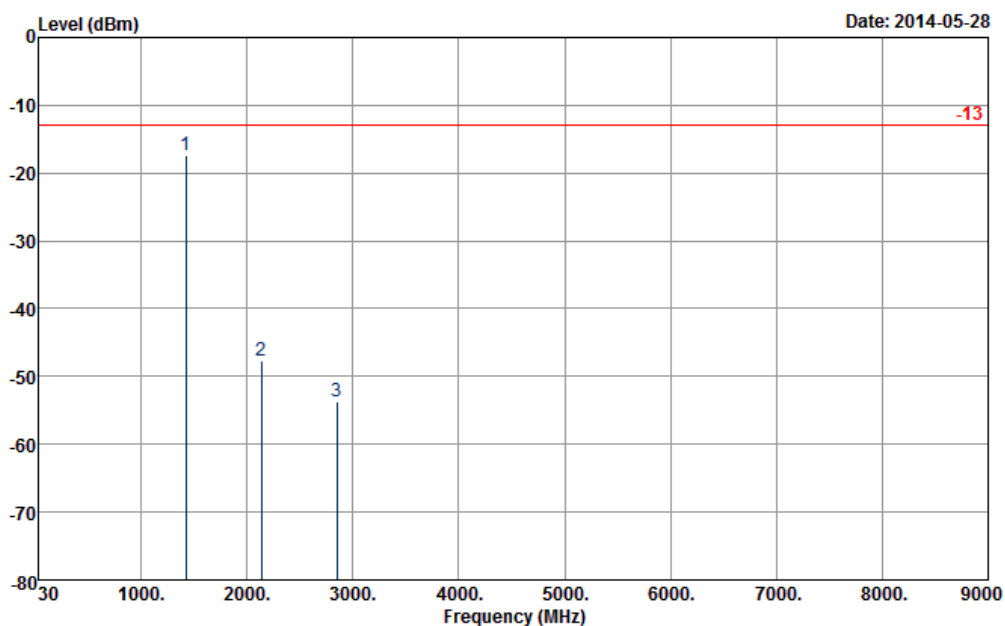


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-20.63	-13	-7.63	-31	-22.33	1.47	5.32	V	Pass
2120	-41.61	-13	-28.61	-54.79	-43.58	1.86	5.98	V	Pass
2816	-51.27	-13	-38.27	-66.24	-54.34	2.21	7.43	V	Pass

<High Channel>

Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

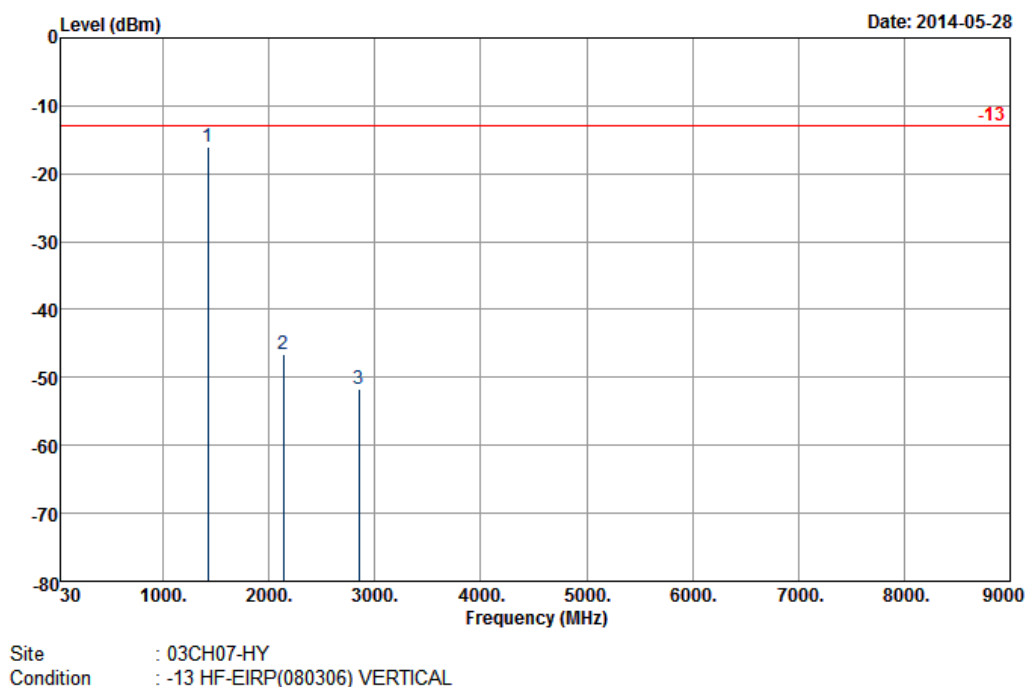


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-17.34	-13	-4.34	-25.43	-19.05	1.51	5.37	H	Pass
2136	-47.60	-13	-34.60	-58.87	-49.63	1.87	6.05	H	Pass
2848	-53.69	-13	-40.69	-67.21	-56.78	2.23	7.47	H	Pass



Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	3MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

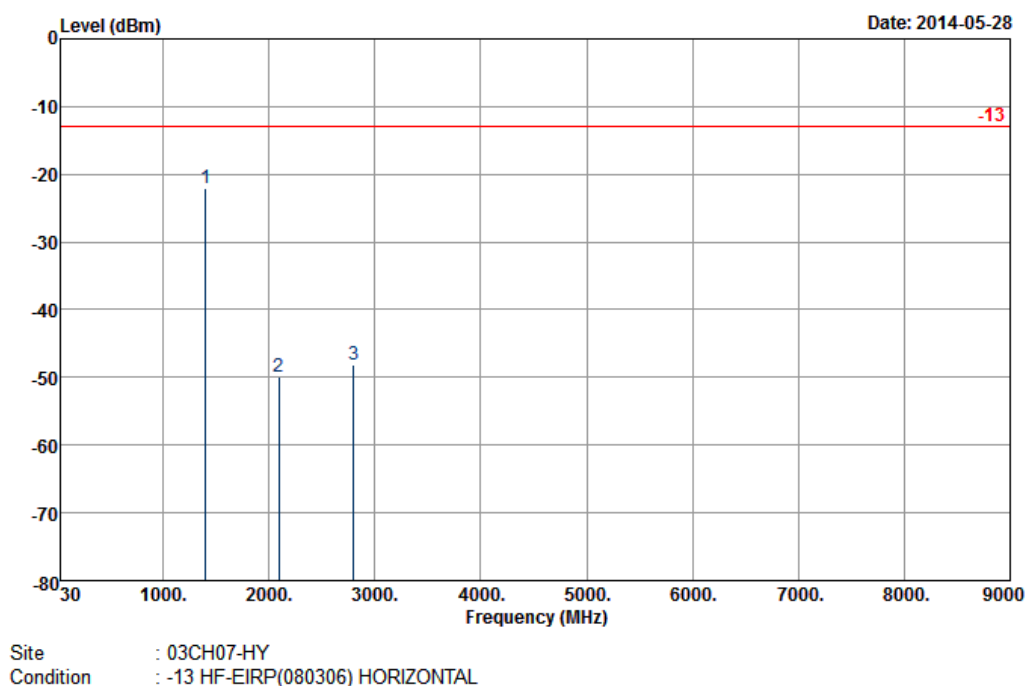


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1424	-15.99	-13	-2.99	-26.25	-17.7	1.51	5.37	V	Pass
2136	-46.47	-13	-33.47	-59.62	-48.5	1.87	6.05	V	Pass
2848	-51.76	-13	-38.76	-66.81	-54.85	2.23	7.47	V	Pass



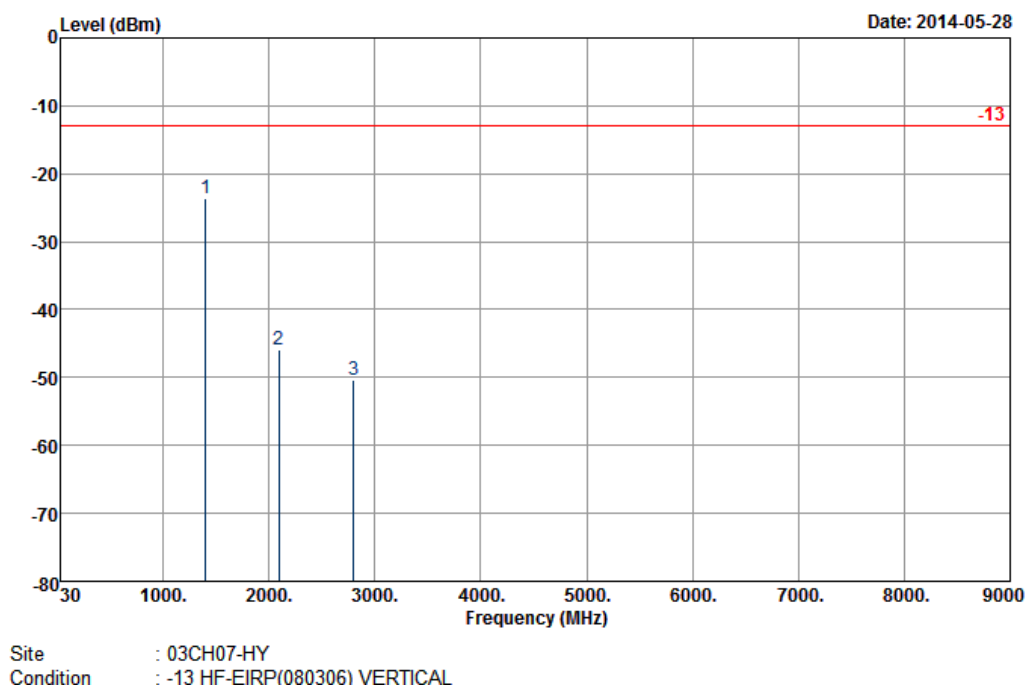
<Low Channel>

Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	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
1400	-22.08	-13	-9.08	-30.28	-23.66	1.38	5.11	H	Pass
2096	-49.92	-13	-36.92	-60.89	-51.85	1.66	5.74	H	Pass
2800	-48.08	-13	-35.08	-61.55	-51.19	2.03	7.29	H	Pass

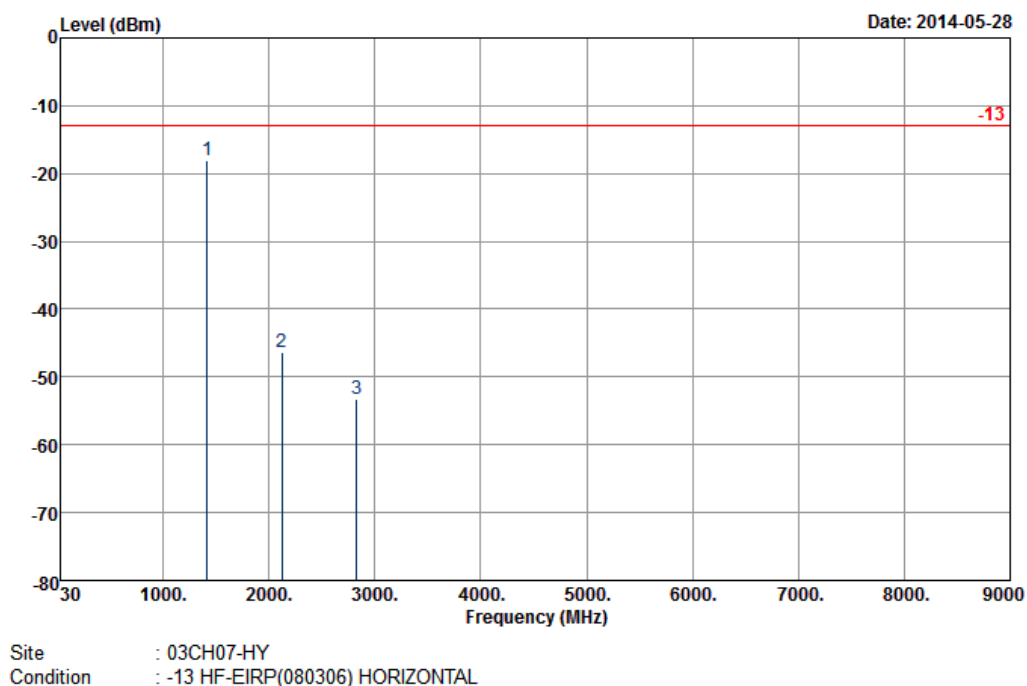
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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
1400	-23.56	-13	-10.56	-33.93	-25.14	1.38	5.11	V	Pass
2096	-45.86	-13	-32.86	-59.01	-47.79	1.66	5.74	V	Pass
2800	-50.44	-13	-37.44	-65.24	-53.55	2.03	7.29	V	Pass

<Middle Channel>

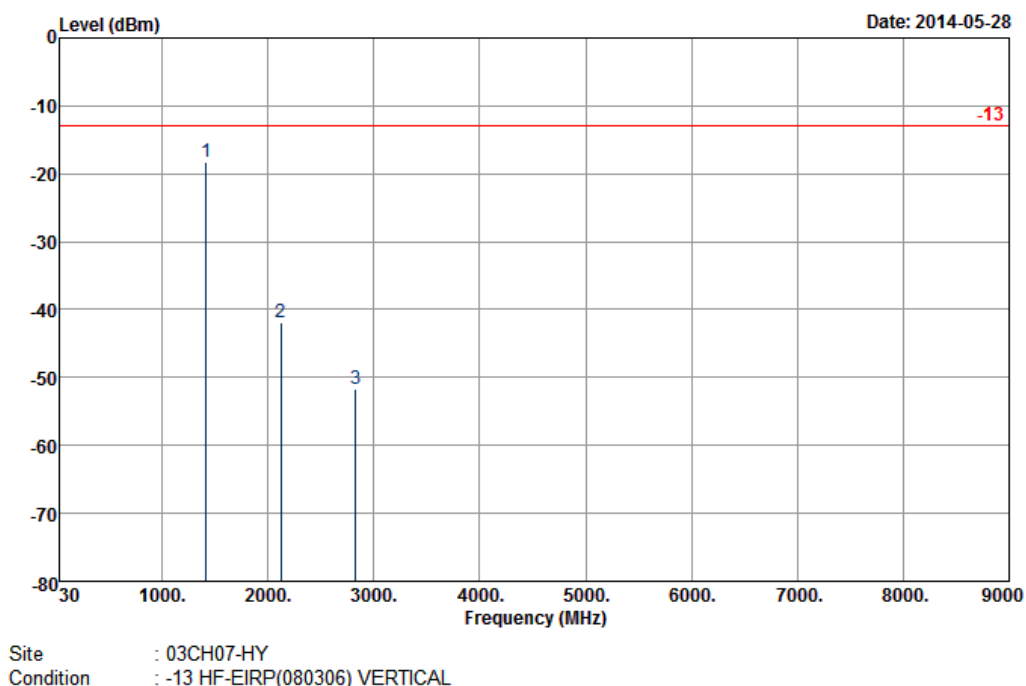
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-18.15	-13	-5.15	-26.28	-19.85	1.47	5.32	H	Pass
2120	-46.32	-13	-33.32	-57.62	-48.29	1.86	5.98	H	Pass
2832	-53.37	-13	-40.37	-66.75	-56.44	2.21	7.43	H	Pass



Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

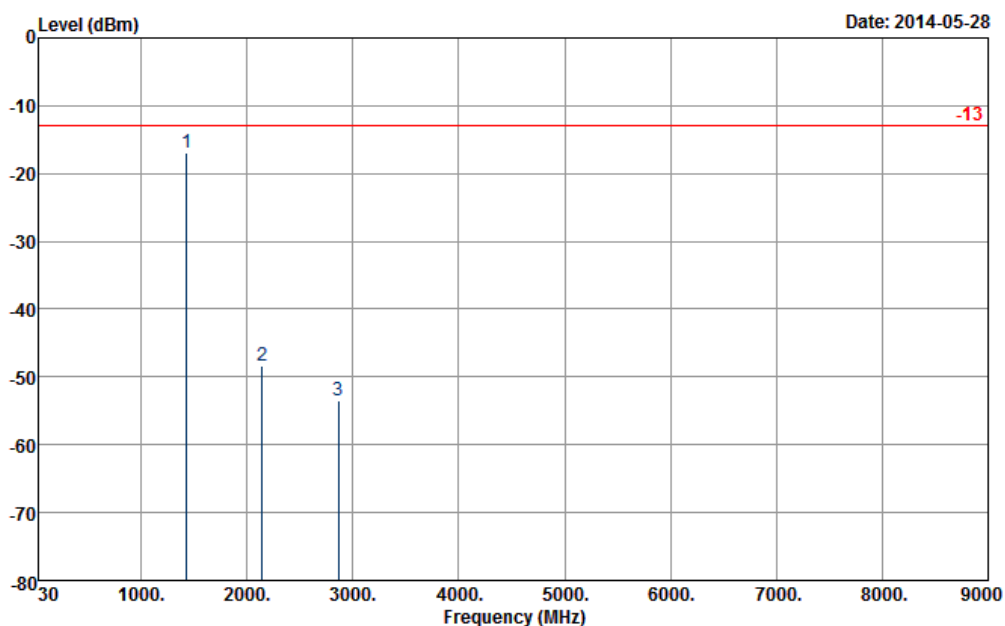


Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1416	-18.38	-13	-5.38	-28.74	-20.08	1.47	5.32	V	Pass
2120	-41.80	-13	-28.80	-54.87	-43.77	1.86	5.98	V	Pass
2832	-51.66	-13	-38.66	-66.68	-54.73	2.21	7.43	V	Pass



<High Channel>

Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

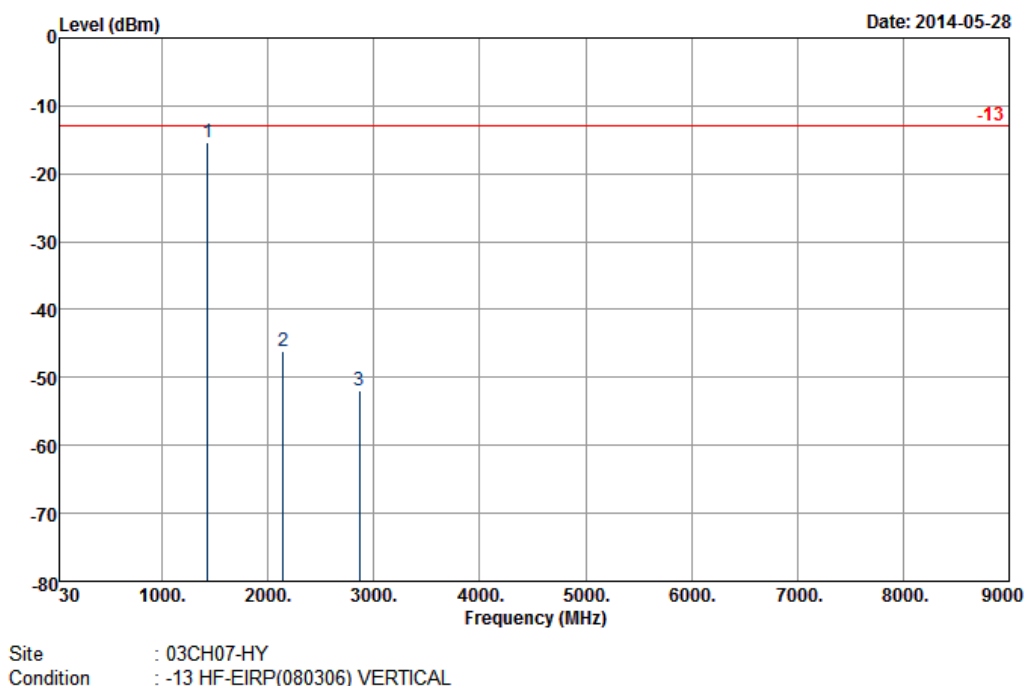


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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
1432	-16.90	-13	-3.90	-24.99	-18.63	1.51	5.39	H	Pass
2144	-48.29	-13	-35.29	-59.57	-50.31	1.89	6.06	H	Pass
2864	-53.51	-13	-40.51	-66.99	-56.6	2.25	7.49	H	Pass



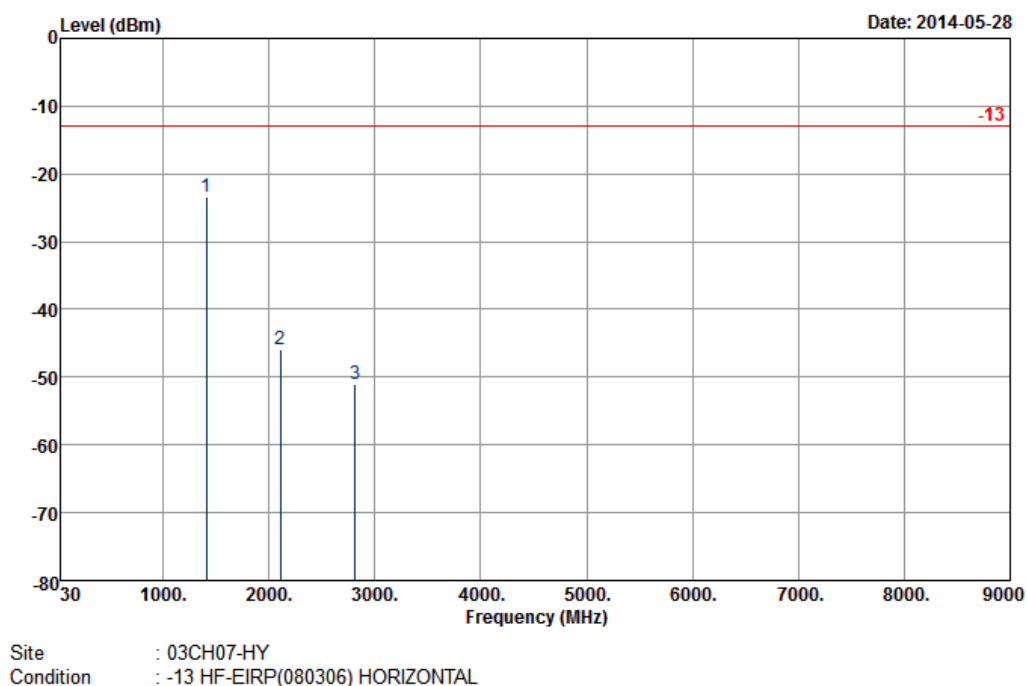
Band :	LTE Band 12	Temperature :	21~24°C
Test Mode :	1.4MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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
1432	-15.37	-13	-2.37	-25.69	-17.1	1.51	5.39	V	Pass
2144	-46.20	-13	-33.20	-59.31	-48.22	1.89	6.06	V	Pass
2864	-52.00	-13	-39.00	-67.18	-55.09	2.25	7.49	V	Pass

<Low Channel>

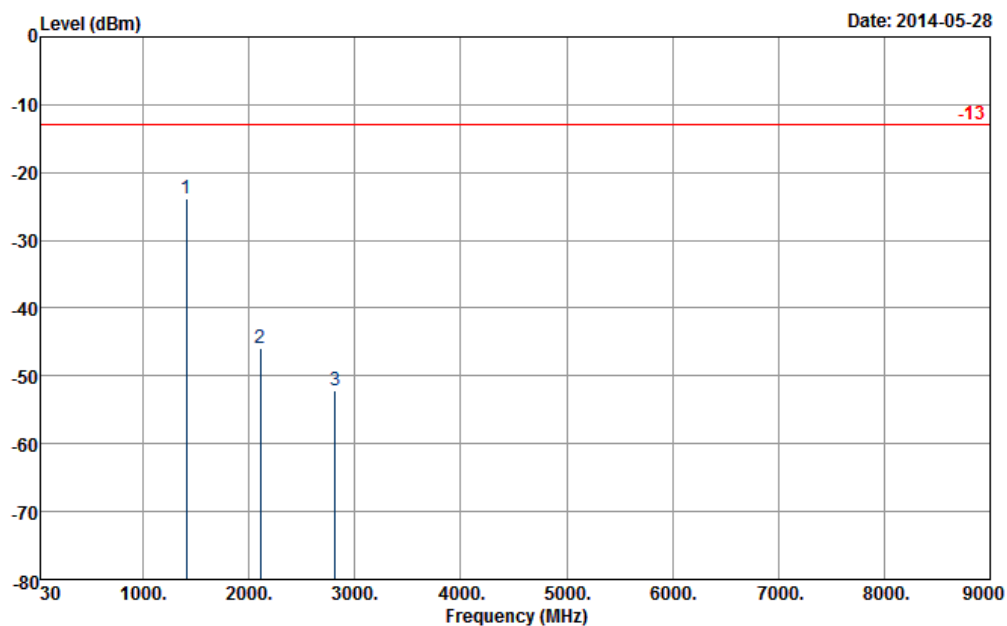
Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-23.46	-13	-10.46	-31.56	-27.55	1.52	5.61	H	Pass
2112	-45.85	-13	-32.85	-57.01	-50.04	1.83	6.02	H	Pass
2816	-51.08	-13	-38.08	-64.5	-55.85	2.24	7.01	H	Pass



Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

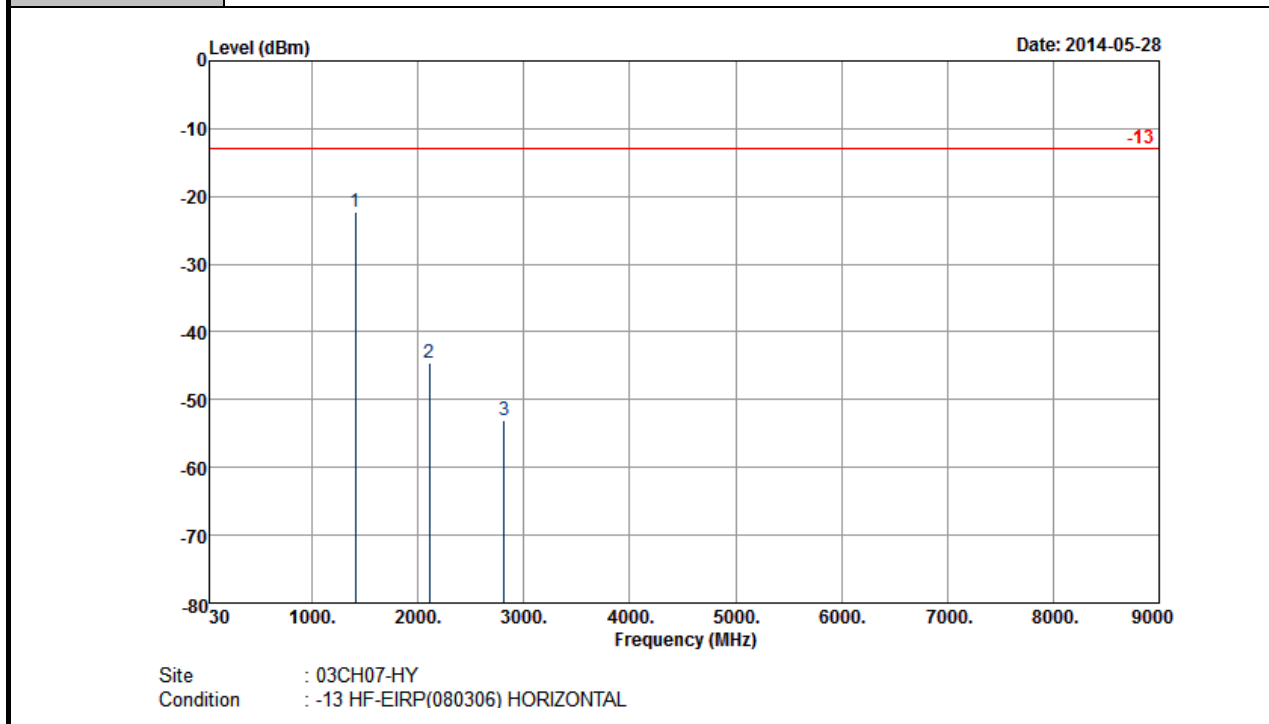


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-23.90	-13	-10.90	-34.28	-28	1.51	5.61	V	Pass
2112	-45.91	-13	-32.91	-58.99	-50.11	1.82	6.02	V	Pass
2816	-52.22	-13	-39.22	-67.2	-57.03	2.2	7.01	V	Pass

<Middle Channel>

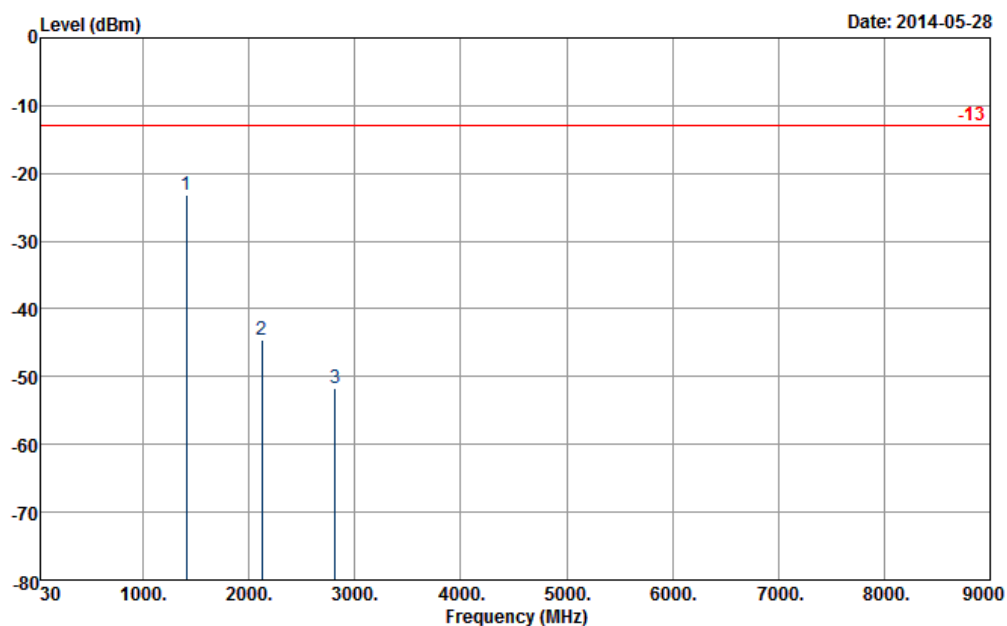
Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-22.37	-13	-9.37	-30.48	-26.45	1.53	5.61	H	Pass
2112	-44.59	-13	-31.59	-55.65	-48.76	1.85	6.02	H	Pass
2816	-52.94	-13	-39.94	-66.34	-57.7	2.24	7.00	H	Pass



Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

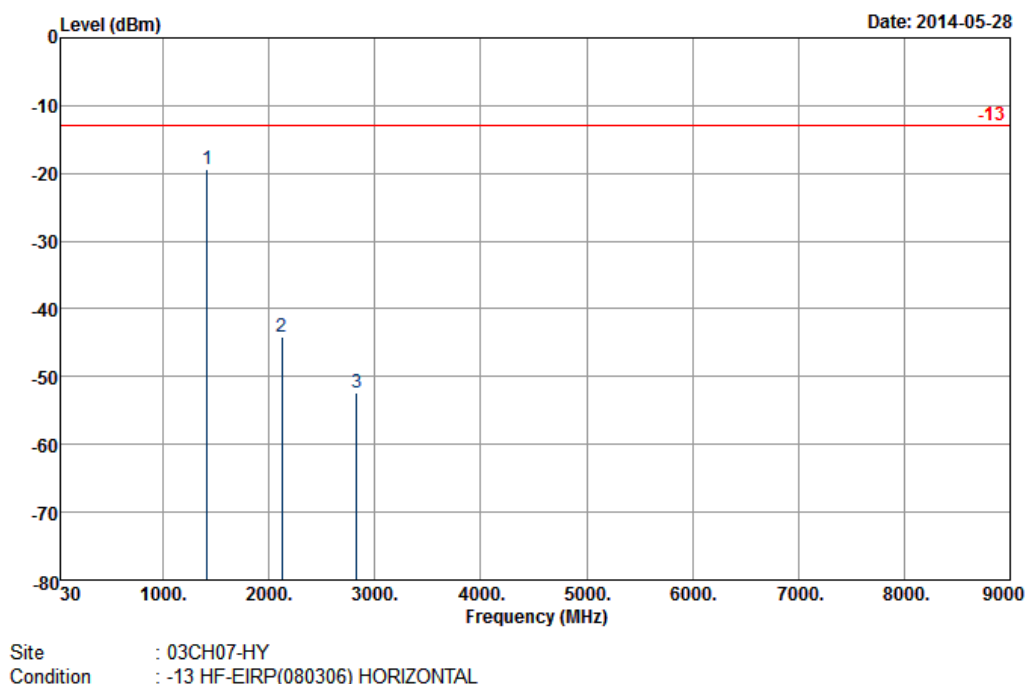


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-23.23	-13	-10.23	-33.58	-27.31	1.53	5.61	V	Pass
2120	-44.52	-13	-31.52	-57.69	-48.69	1.85	6.02	V	Pass
2816	-51.59	-13	-38.59	-66.67	-56.35	2.24	7.00	V	Pass

<High Channel>

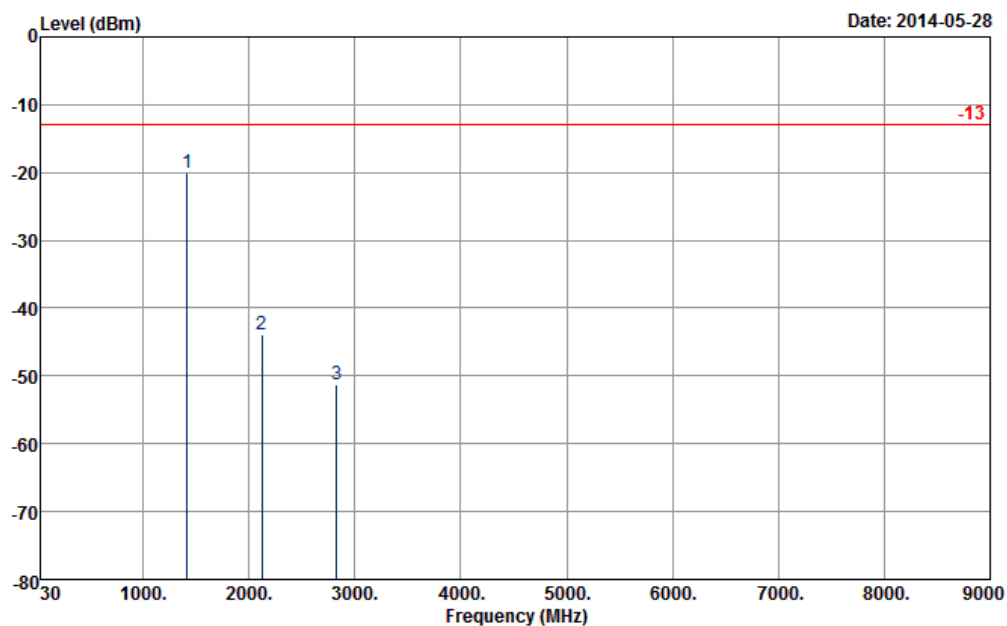
Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-19.32	-13	-6.32	-27.44	-23.42	1.53	5.63	H	Pass
2120	-44.16	-13	-31.16	-55.32	-48.36	1.88	6.08	H	Pass
2832	-52.41	-13	-39.41	-65.85	-57.25	2.27	7.11	H	Pass



Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	10MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

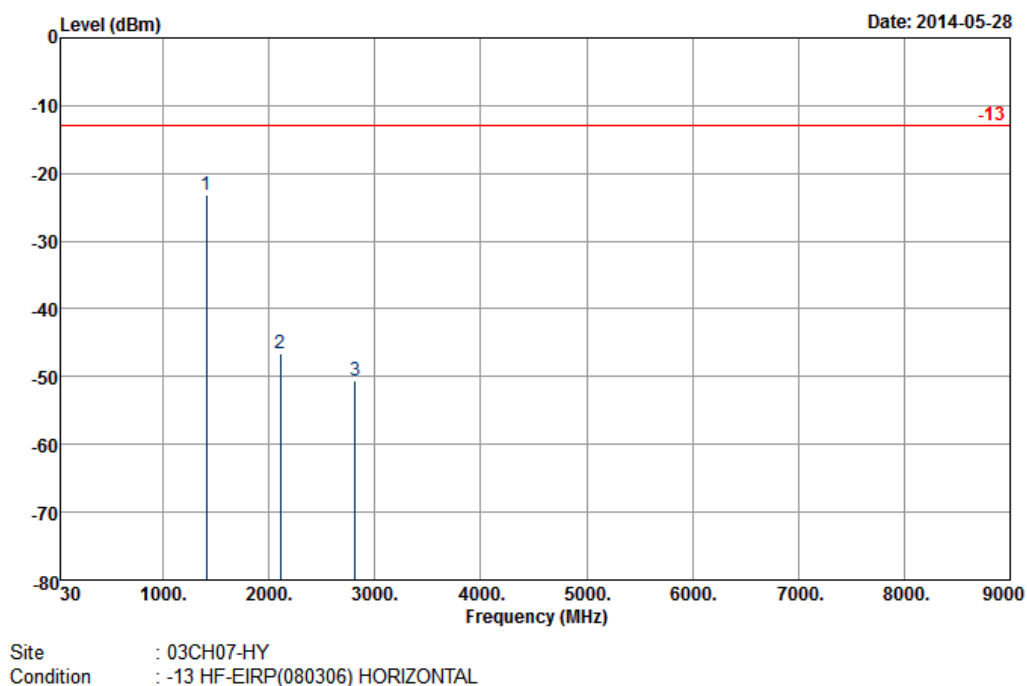


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-20.14	-13	-7.14	-30.54	-24.24	1.53	5.63	V	Pass
2120	-43.79	-13	-30.79	-56.93	-47.99	1.88	6.08	V	Pass
2832	-51.32	-13	-38.32	-66.4	-56.16	2.27	7.11	V	Pass

<Low Channel>

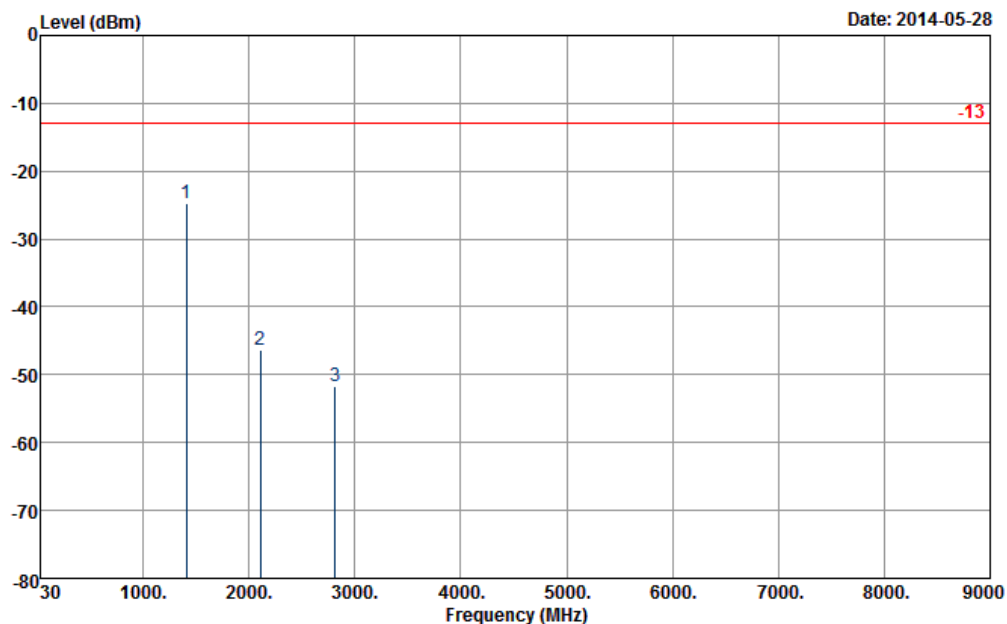
Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



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	-23.27	-13	-10.27	-31.44	-27.36	1.51	5.60	H	Pass
2112	-46.59	-13	-33.59	-57.67	-50.77	1.82	6.00	H	Pass
2816	-50.57	-13	-37.57	-64.07	-55.35	2.2	6.98	H	Pass



Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



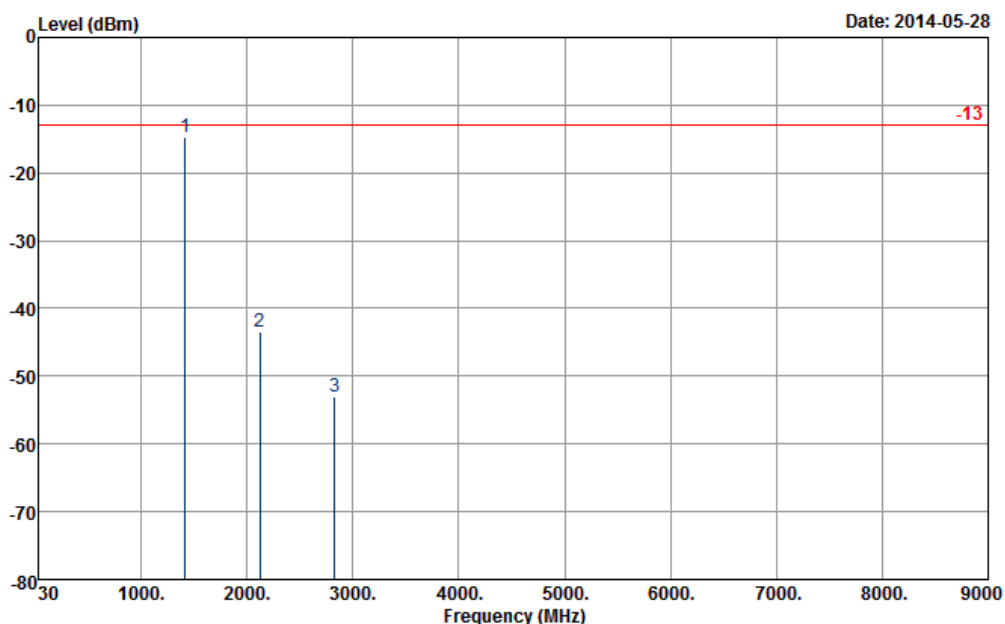
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-24.79	-13	-11.79	-35.25	-28.88	1.51	5.60	V	Pass
2112	-46.44	-13	-33.44	-59.64	-50.62	1.82	6.00	V	Pass
2816	-51.62	-13	-38.62	-66.57	-56.4	2.2	6.98	V	Pass



<Middle Channel>

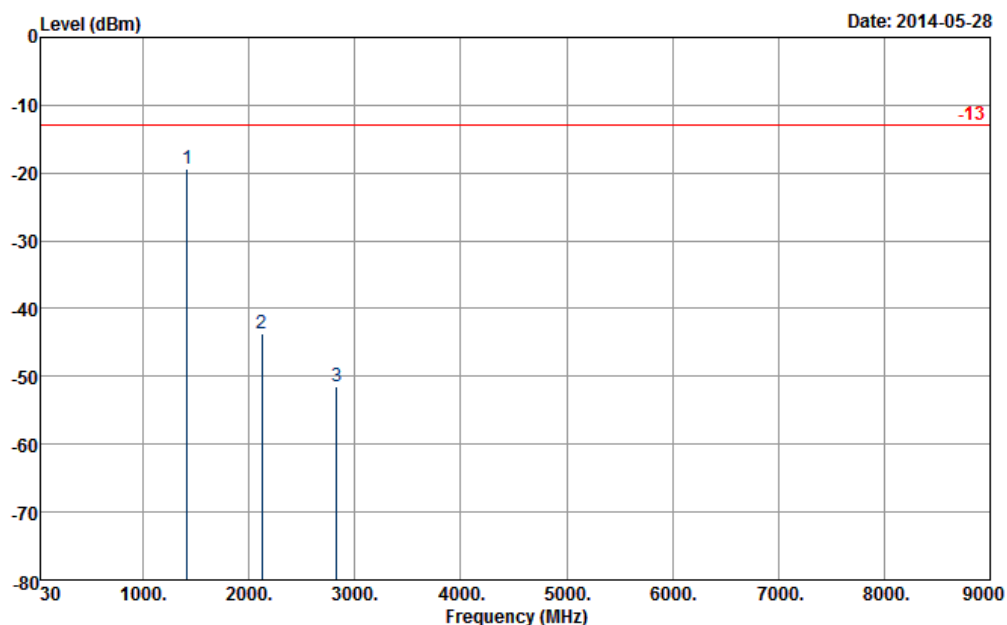
Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-14.76	-13	-1.76	-23.01	-18.84	1.53	5.61	H	Pass
2520	-43.49	-13	-30.49	-54.72	-47.66	1.85	6.02	H	Pass
2832	-52.97	-13	-39.97	-66.52	-57.73	2.24	7.00	H	Pass

Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



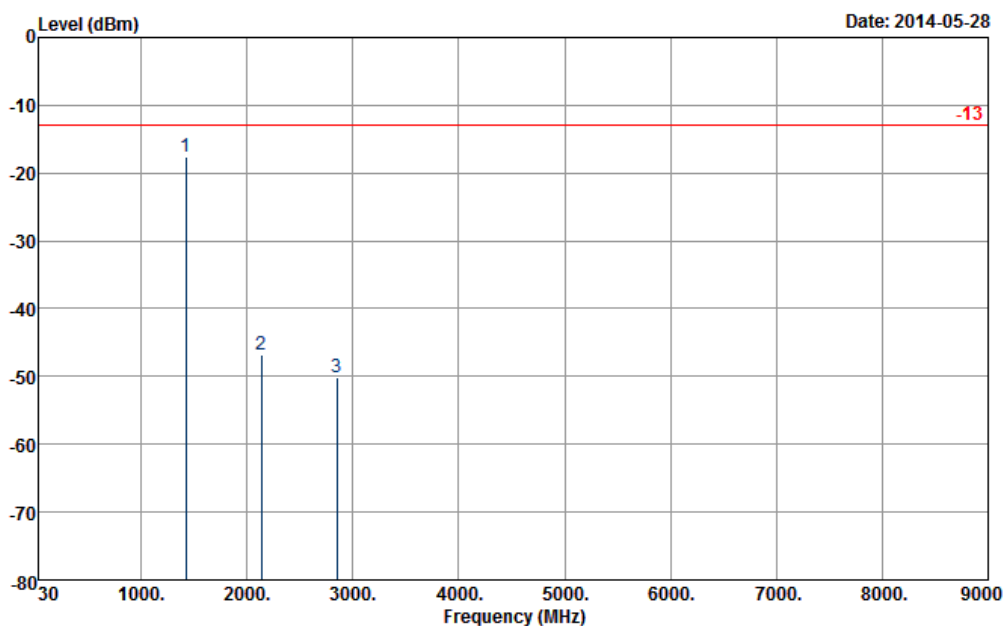
Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-19.47	-13	-6.47	-29.83	-23.55	1.53	5.61	V	Pass
2120	-43.66	-13	-30.66	-56.75	-47.83	1.85	6.02	V	Pass
2832	-51.48	-13	-38.48	-66.49	-56.24	2.24	7.00	V	Pass



<High Channel>

Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		

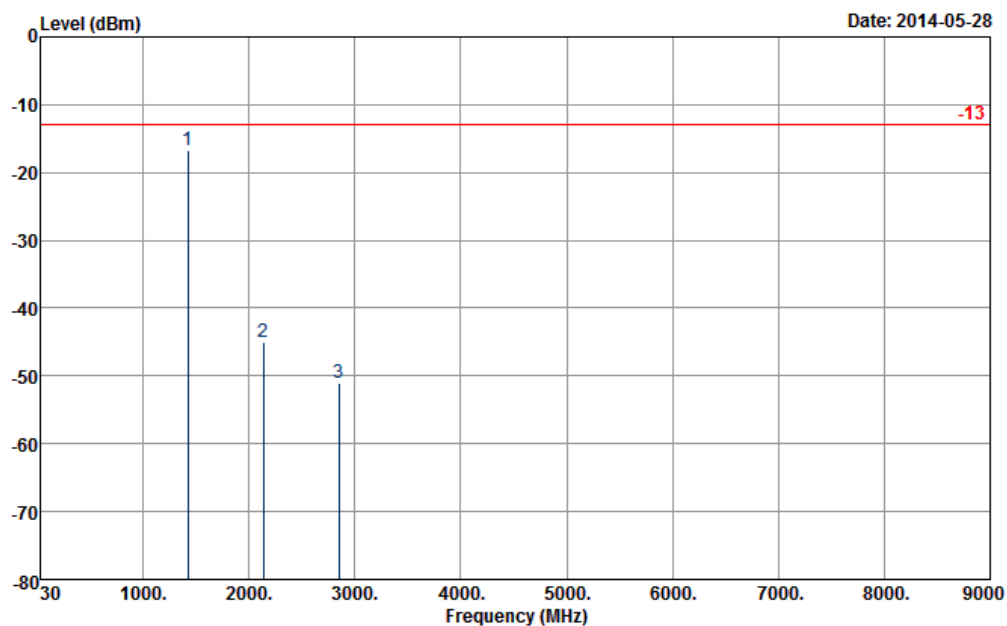


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-17.50	-13	-4.50	-25.61	-21.6	1.54	5.64	H	Pass
2136	-46.80	-13	-33.80	-58.07	-51.01	1.87	6.08	H	Pass
2848	-50.18	-13	-37.18	-63.54	-55.03	2.26	7.11	H	Pass



Band :	LTE Band 17	Temperature :	21~24°C
Test Mode :	5MHz QPSK RB Size 1 Offset 0	Relative Humidity :	44~48%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-10th harmonic were found more than 20dB below limit line.		



Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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	-16.66	-13	-3.66	-26.96	-20.76	1.54	5.64	V	Pass
2136	-44.95	-13	-31.95	-58.11	-49.16	1.87	6.08	V	Pass
2848	-51.03	-13	-38.03	-66.16	-55.88	2.26	7.11	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 $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.8.2 Measuring Instruments

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

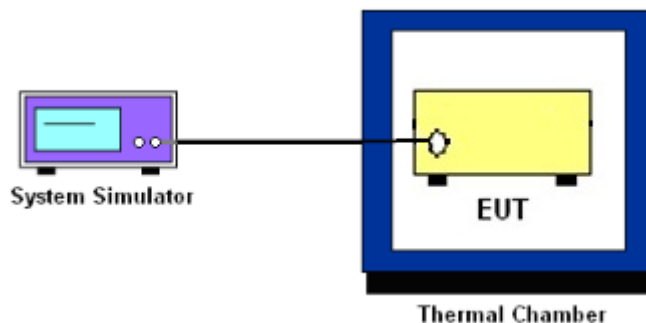
3.8.3 Test Procedures for Temperature Variation

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 $25\pm 5^{\circ}\text{C}$ 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	0.0057	PASS	
40	0.0017		
30	0.0016		
20	0.0031		
10	0.0038		
0	0.0023		
-10	0.0011		
-20	0.0024		
-30	0.0030		

Band :	LTE Band 4 (QPSK)	Limit (ppm) :	2.5
Temperature (°C)	BW 10MHz	Result	
	Deviation (ppm)		
50	0.0027	PASS	
40	0.0012		
30	0.0006		
20	0.0014		
10	0.0024		
0	0.0034		
-10	0.0012		
-20	0.0019		
-30	0.0006		

Band :	LTE Band 12 (QPSK)	Limit (ppm) :	2.5
Temperature (°C)	BW 10MHz	Result	
	Deviation (ppm)		
50	0.0016	PASS	
40	0.0024		
30	0.0007		
20	0.0008		
10	0.0016		
0	0.0021		
-10	0.0017		
-20	0.0008		
-30	0.0010		

Band :	LTE Band 17 (QPSK)	Limit (ppm) :	2.5
Temperature (°C)	BW 10MHz	Result	
	Deviation (ppm)		
50	0.0015	PASS	
40	0.0023		
30	0.0031		
20	0.0039		
10	0.0046		
0	0.0024		
-10	0.0027		
-20	0.0020		
-30	0.0025		

3.8.7 Test Result of Voltage Variation (FCC)

Band	Bandwidth	Voltage (Volt)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 5	10M	4.35	0.0014	2.5	PASS
		Normal	0.0010		
		3.42	0.0001		
LTE Band 4	10M	4.35	0.0010	2.5	PASS
		Normal	0.0028		
		3.42	0.0011		
LTE Band 12	10M	4.35	0.0021	2.5	PASS
		Normal	0.0008		
		3.42	0.0023		
LTE Band 17	10M	4.35	0.0045	2.5	PASS
		Normal	0.0014		
		3.42	0.0006		

Remark:

1. Normal Voltage = 3.80V.
2. The manufacturer declared that the EUT could work properly between voltage 3.42V ~ 4.35V.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 07, 2013	May 27, 2014~ May 28, 2014	Jun. 06, 2014	Conducted (TH02-HY)
Thermal Chamber	Ten Billion	TTH-D3SP	TBN-930701	N/A	Jul. 19, 2013	May 27, 2014~ May 28, 2014	Jul. 18, 2014	Conducted (TH02-HY)
LTE Base Station	Anritsu	MT8820C	6201026480	30MHz~2.7GHz SISO	Jan. 07, 2014	May 27, 2014~ May 28, 2014	Jan. 06, 2015	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV30	101749	10Hz ~ 30GHz	Feb. 10, 2014	May 28, 2014~ Jun. 06, 2014	Feb. 09, 2015	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 10, 2013	May 28, 2014~ Jun. 06, 2014	Oct. 09, 2014	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 22, 2013	May 28, 2014~ Jun. 06, 2014	Aug. 21, 2014	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10 MHz ~ 1000MHz	Mar. 17, 2014	May 28, 2014~ Jun. 06, 2014	Mar. 16, 2015	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1 GHz~26.5 GHz	Nov. 29, 2013	May 28, 2014~ Jun. 06, 2014	Nov. 28, 2014	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	May 28, 2014~ Jun. 06, 2014	N/A	Radiation (03CH07-HY)
Antenna Mast	ChainTek	M-400-0	114/8000604	N/A	N/A	May 28, 2014~ Jun. 06, 2014	N/A	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA91702 51	15GHz- 40GHz	Oct. 03, 2013	May 28, 2014~ Jun. 06, 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
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