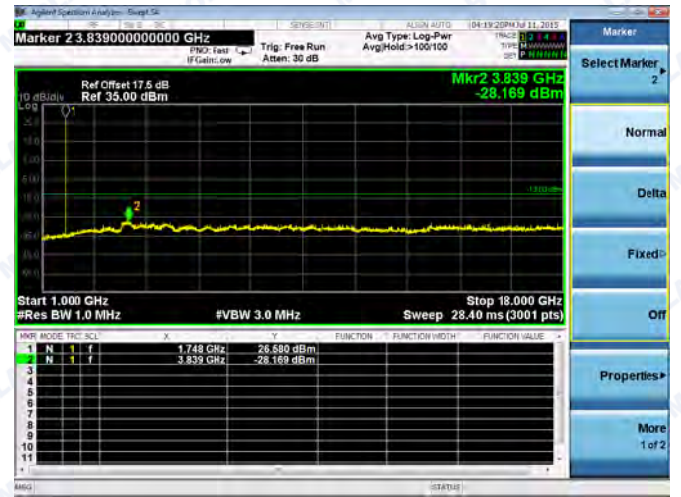




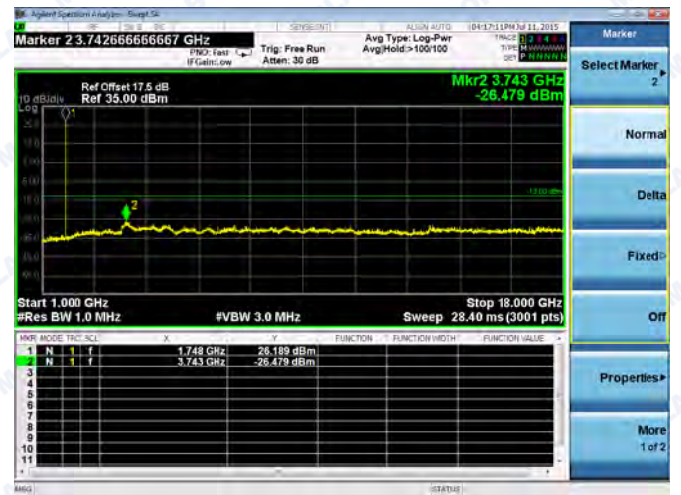
REPORT No.: SZ15060145W02

LTE Band 4 5MHz BW High Channel

QPSK



16QAM

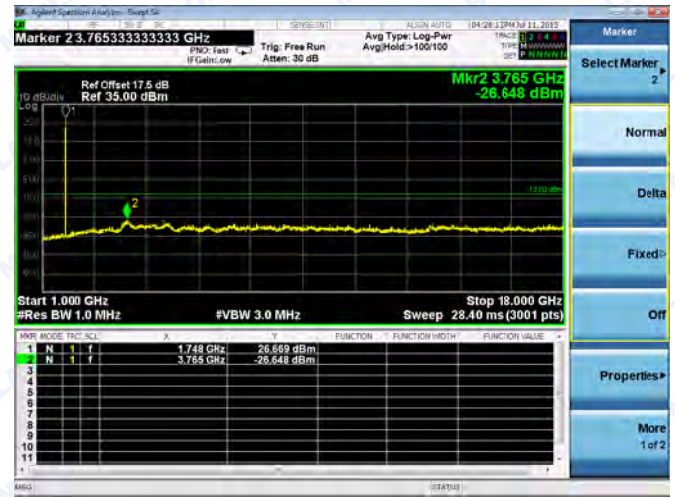




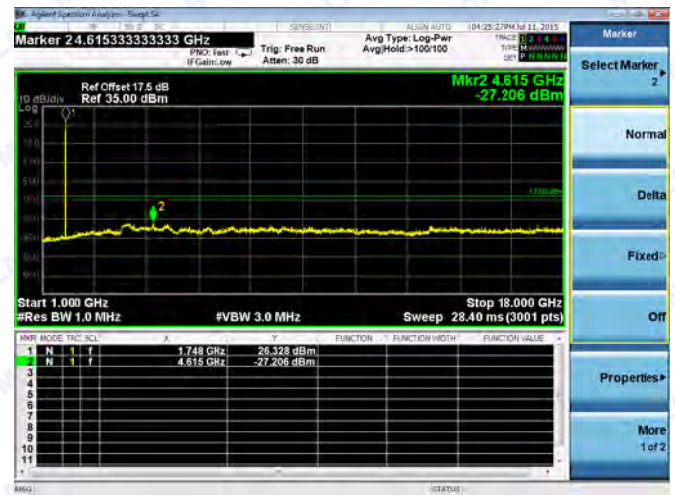
REPORT No.: SZ15060145W02

LTE Band 4 10MHz BW High Channel

QPSK



16QAM

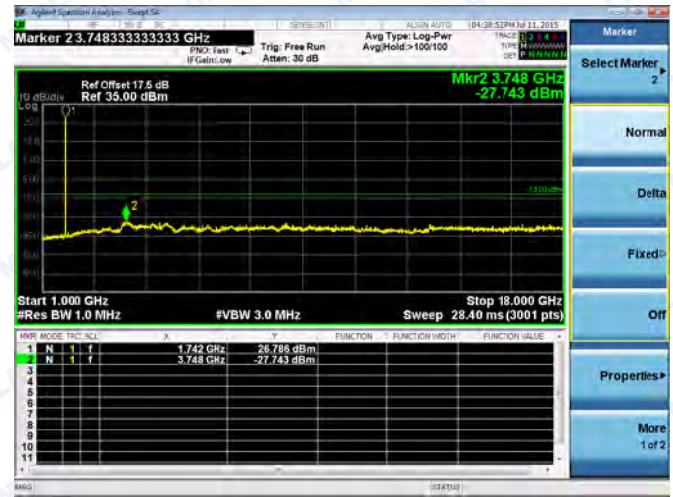
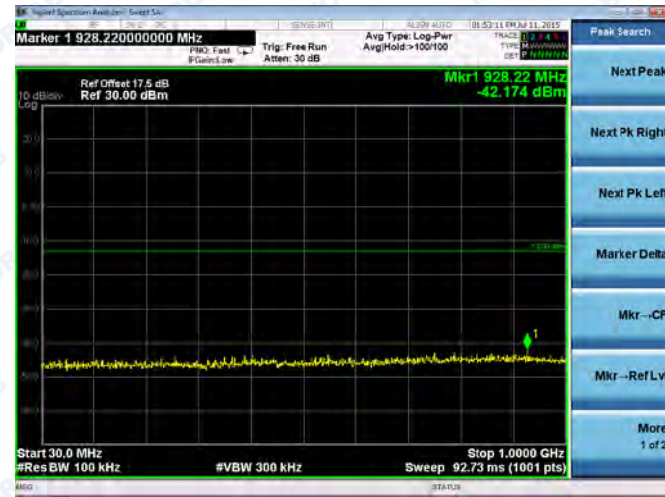




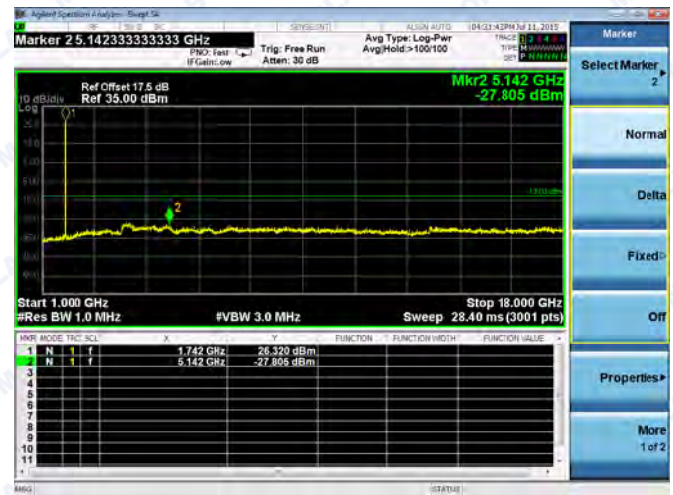
REPORT No.: SZ15060145W02

LTE Band 4 15MHz BW High Channel

QPSK



16QAM

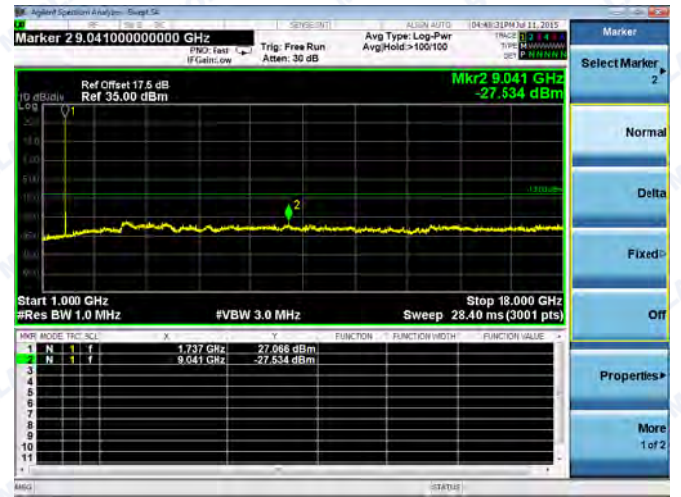




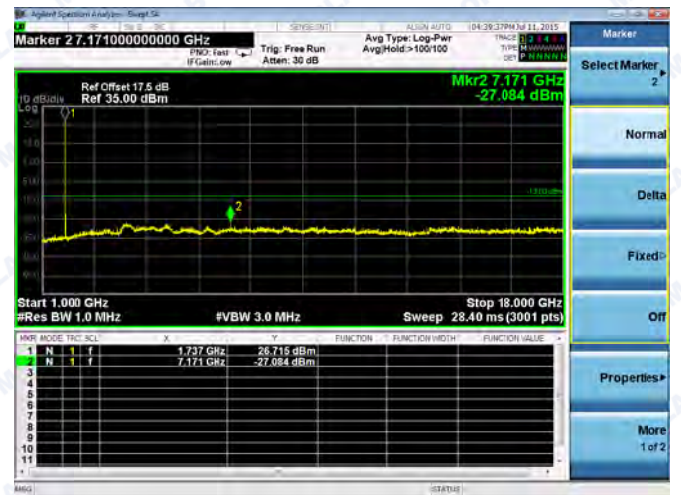
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LTE Band 4 20MHz BW High Channel

QPSK



16QAM

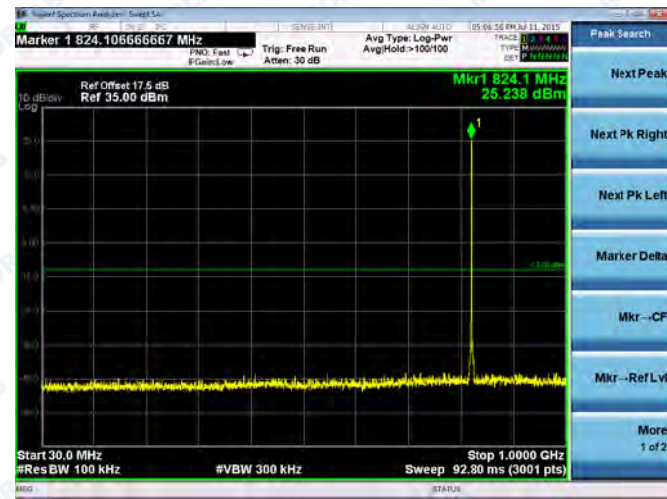




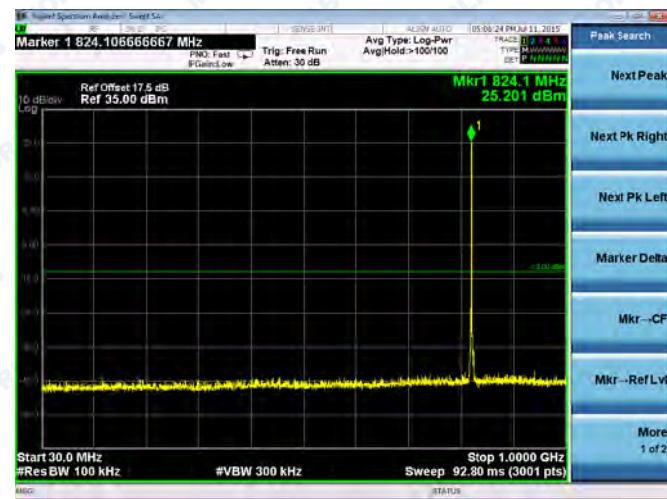
REPORT No.: SZ15060145W02

LTE Band 5 1.4MHz BW Low Channel

QPSK



16QAM

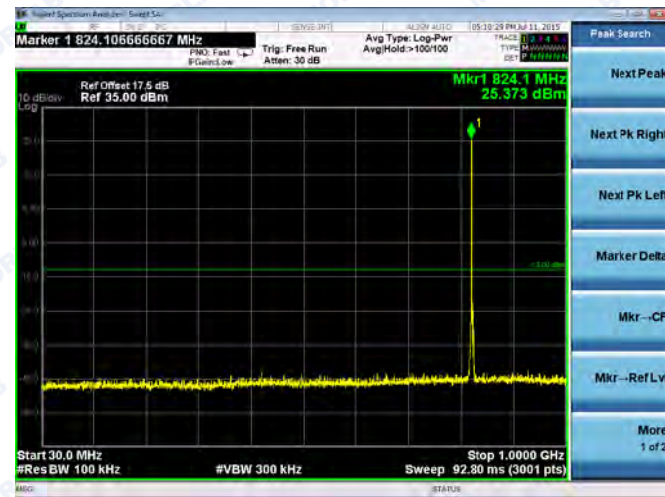




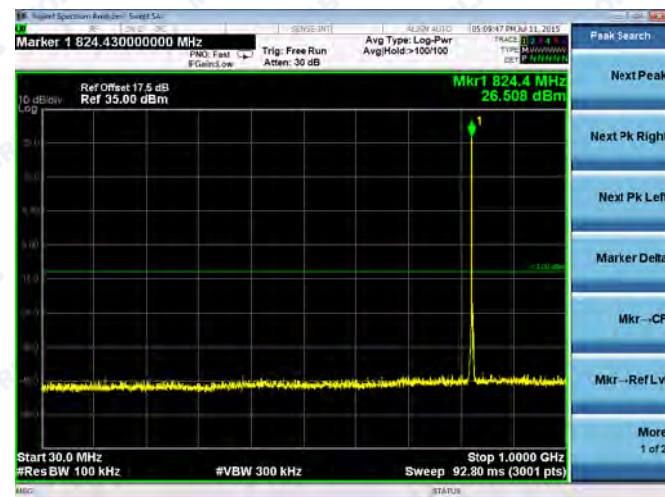
REPORT No.: SZ15060145W02

LTE Band 5 3MHz BW Low Channel

QPSK



16QAM

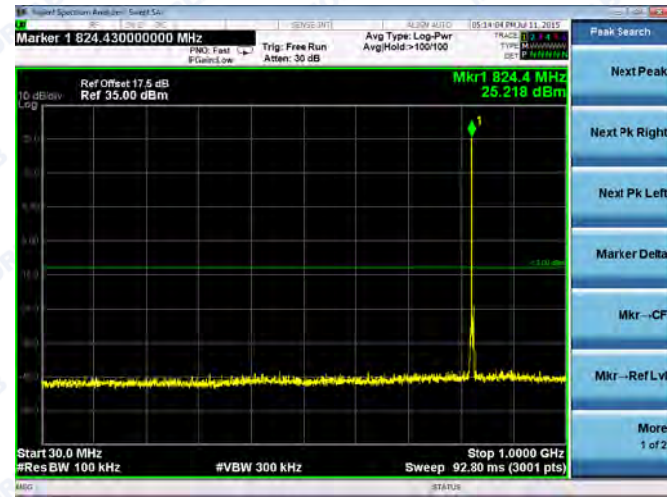




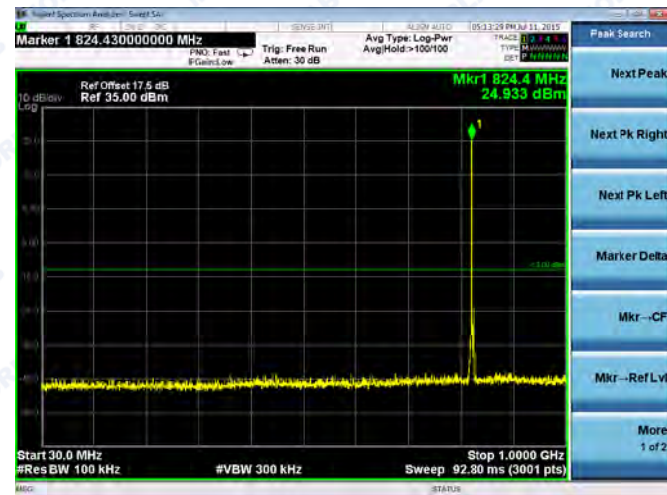
REPORT No.: SZ15060145W02

LTE Band 5 5MHz BW Low Channel

QPSK



16QAM

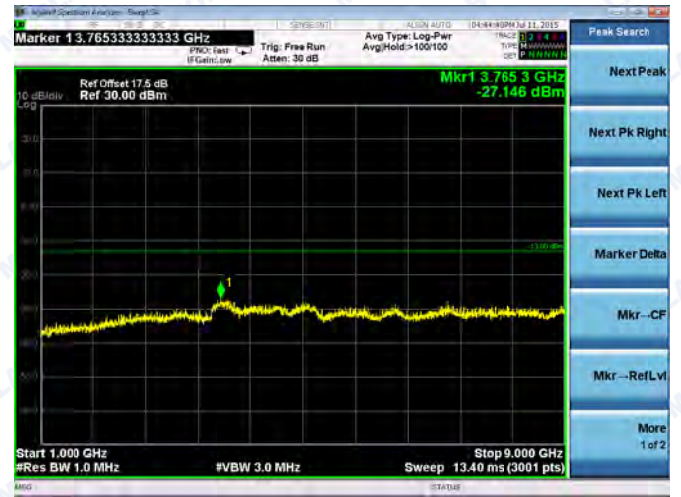
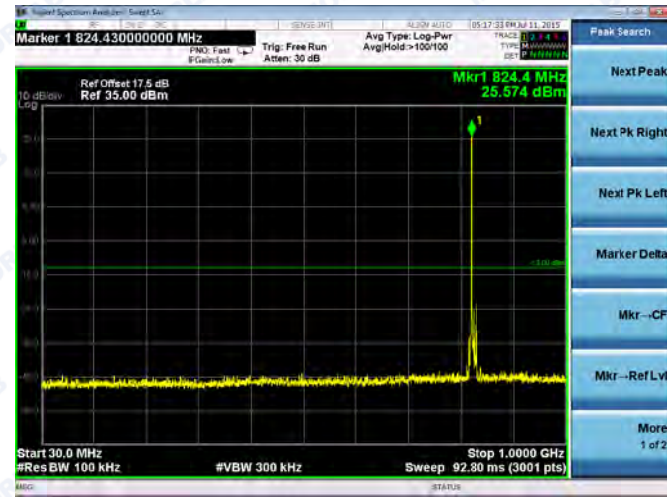




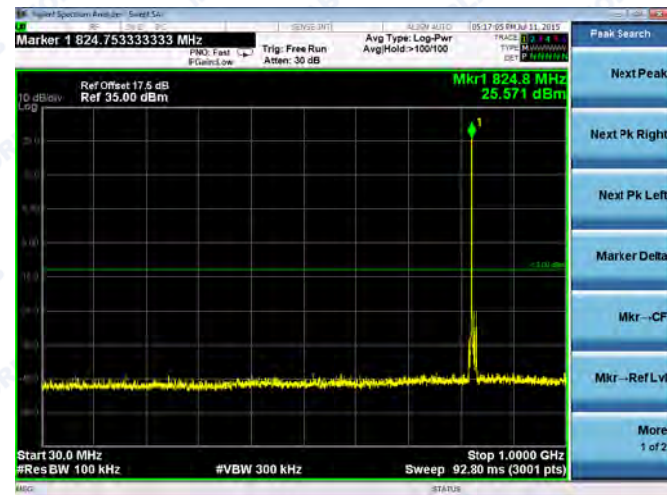
REPORT No.: SZ15060145W02

LTE Band 5 10MHz BW Low Channel

QPSK



16QAM



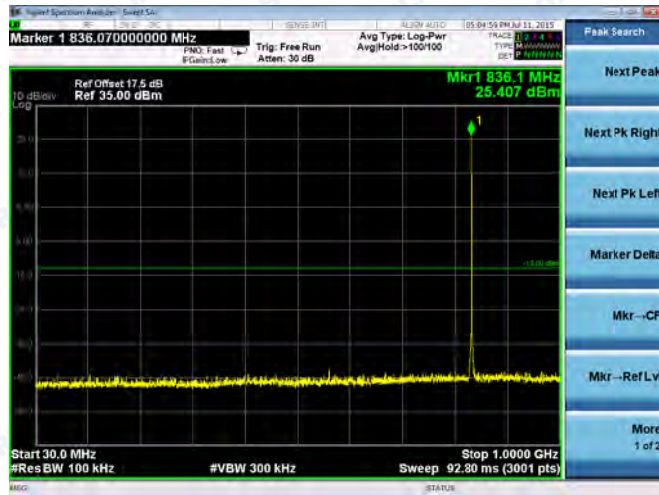


REPORT No.: SZ15060145W02

Middle channel:

LTE Band 5 1.4MHz BW Mid Channel

QPSK



16QAM

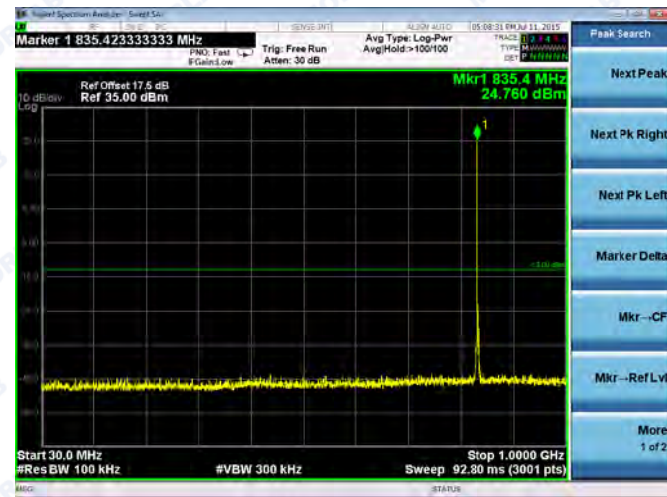




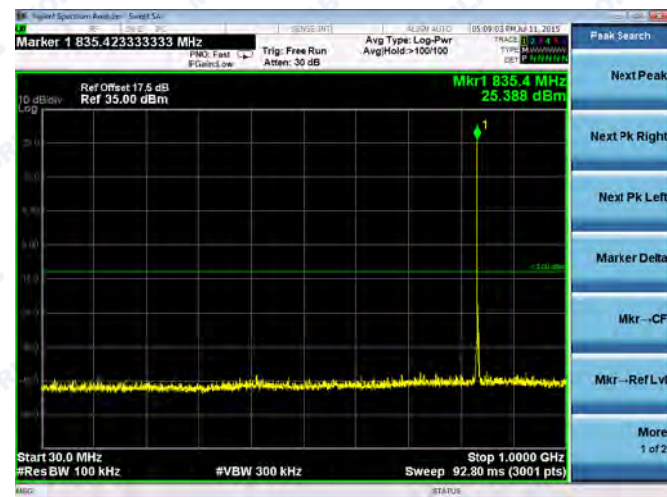
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LTE Band 5 3MHz BW Mid Channel

QPSK



16QAM

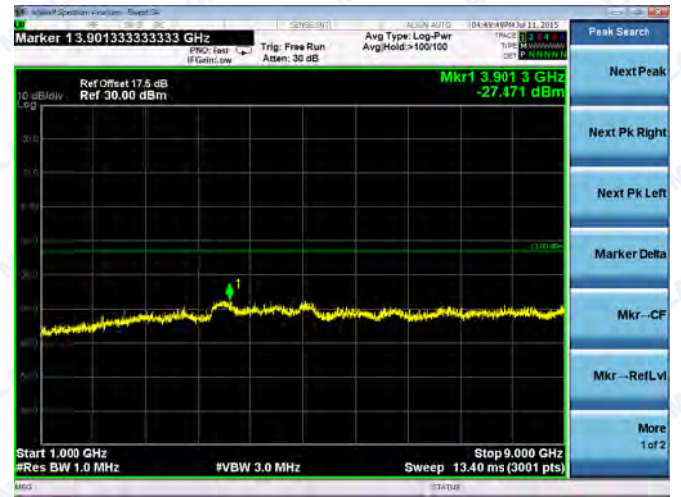
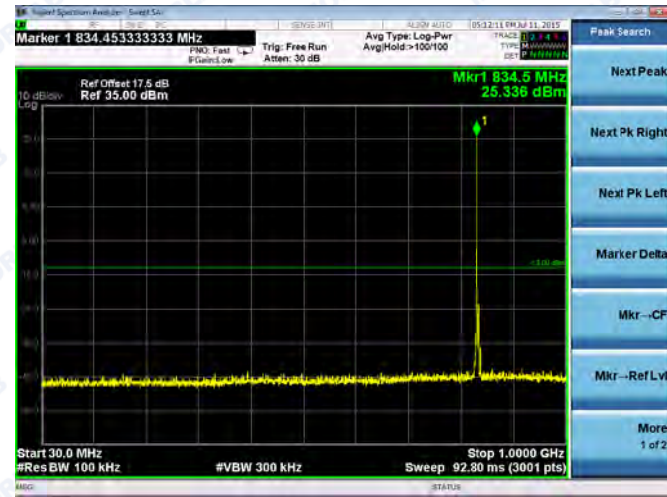




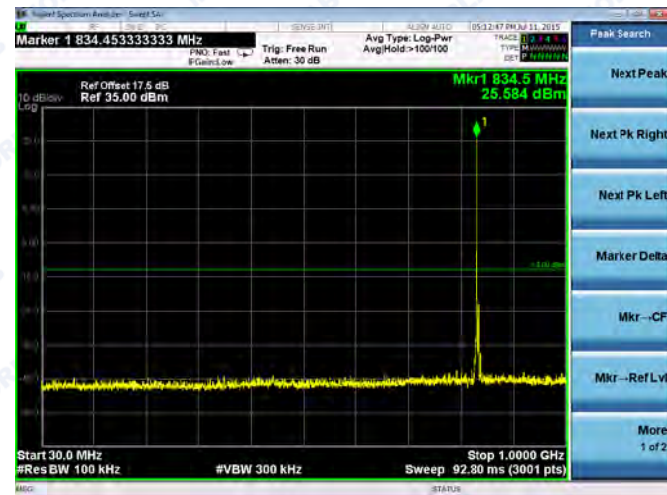
REPORT No.: SZ15060145W02

LTE Band 5 5MHz BW Mid Channel

QPSK



16QAM

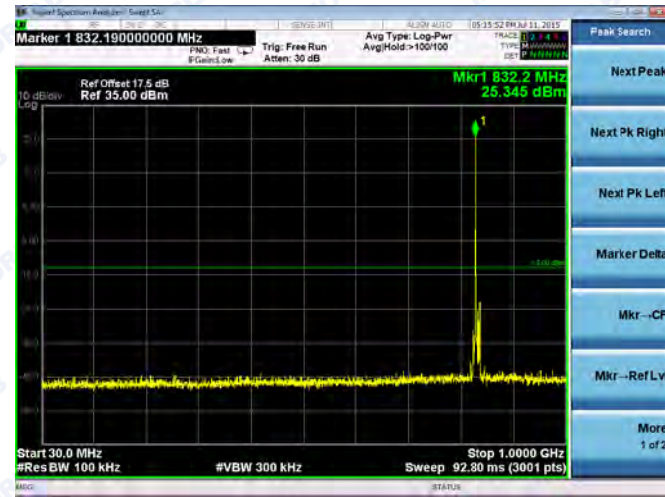




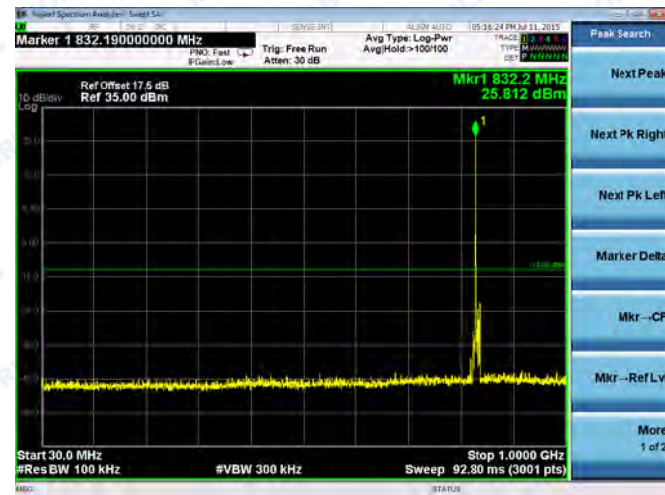
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LTE Band 5 10MHz BW Mid Channel

QPSK



16QAM





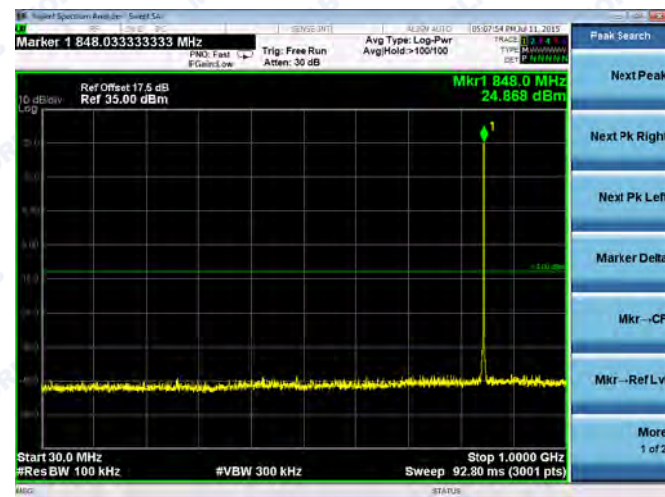
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LTE Band 5 1.4MHz BW High Channel

QPSK



16QAM

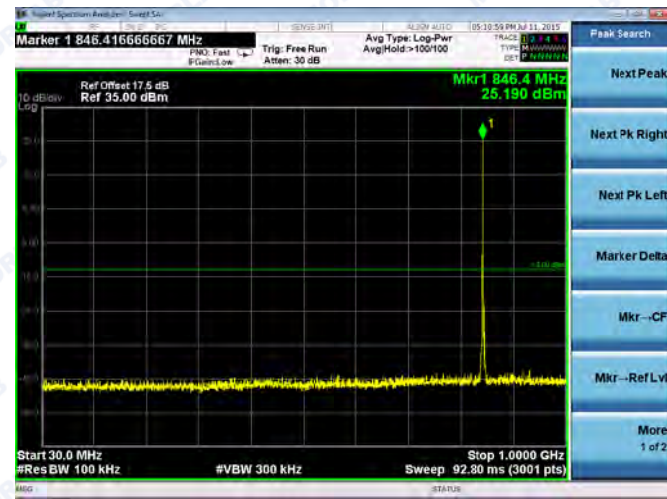




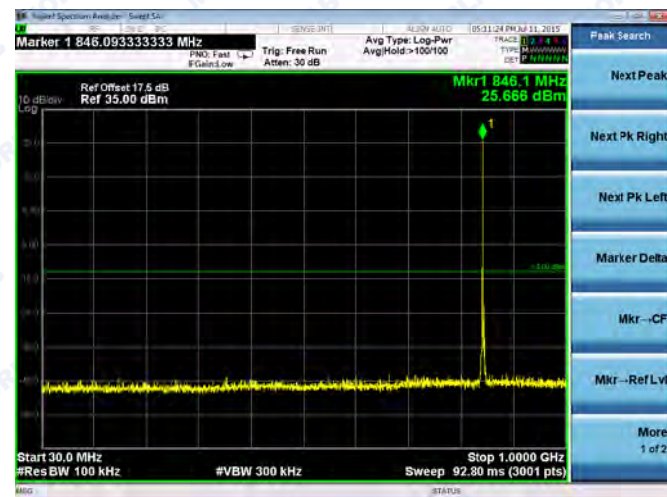
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LTE Band 5 3MHz BW High Channel

QPSK



16QAM

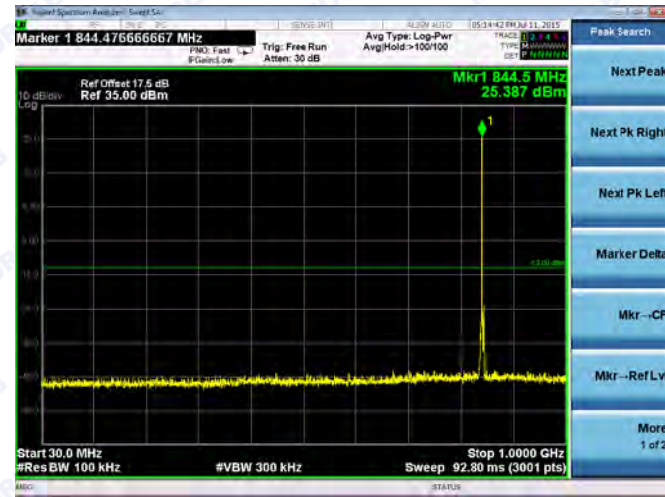




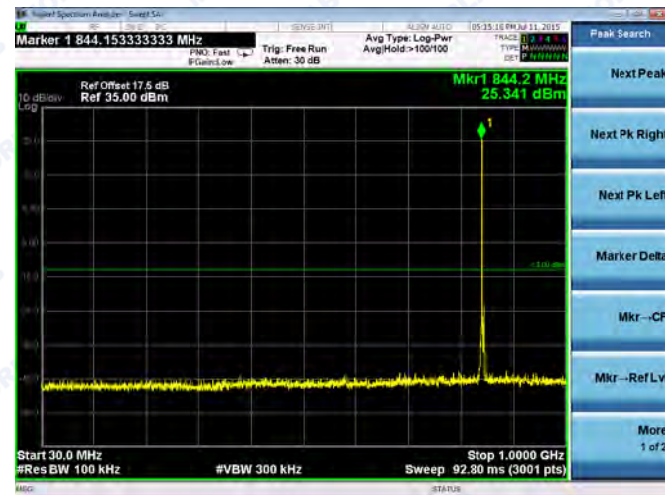
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LTE Band 5 5MHz BW High Channel

QPSK



16QAM

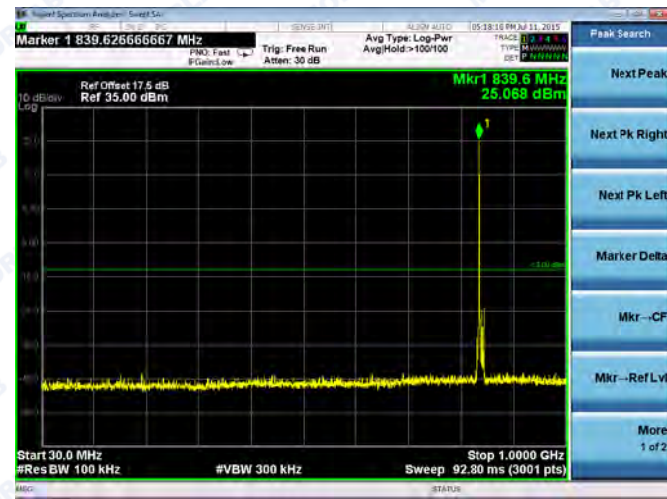




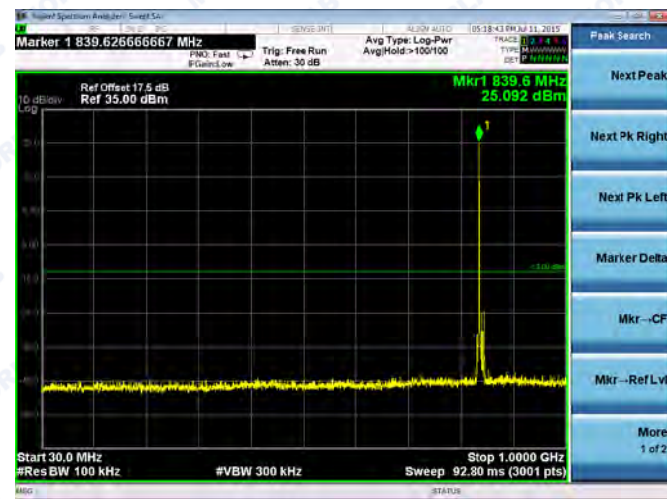
REPORT No.: SZ15060145W02

LTE Band 5 10MHz BW High Channel

QPSK



16QAM

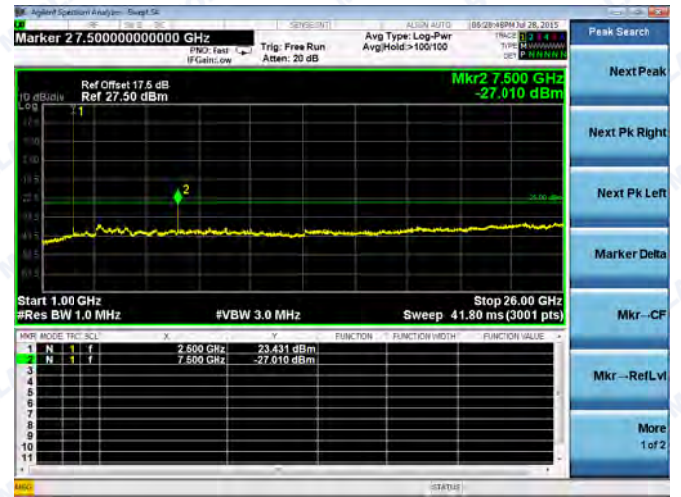
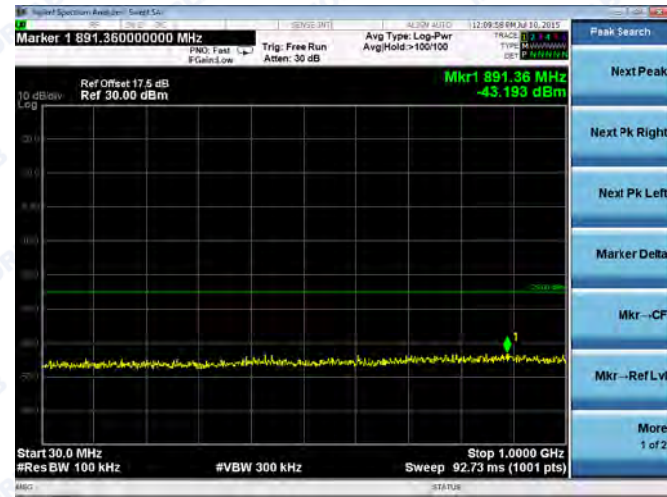




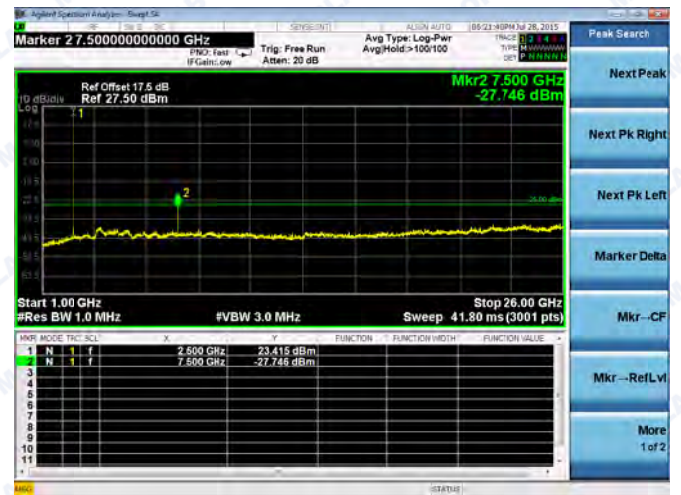
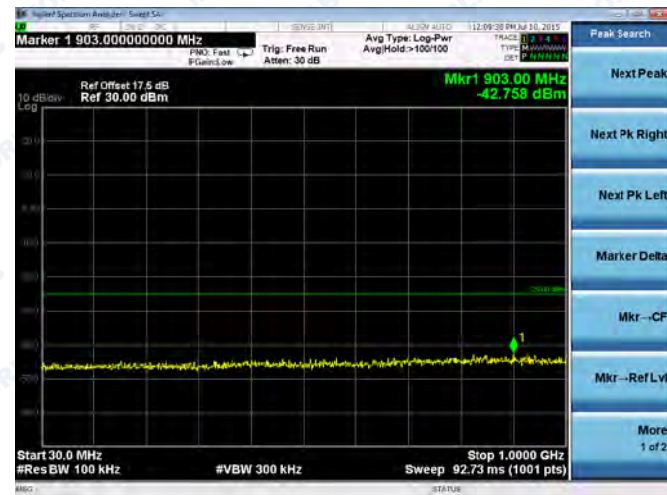
REPORT No.: SZ15060145W02

LTE Band 7 5MHz BW Low Channel

QPSK



16QAM

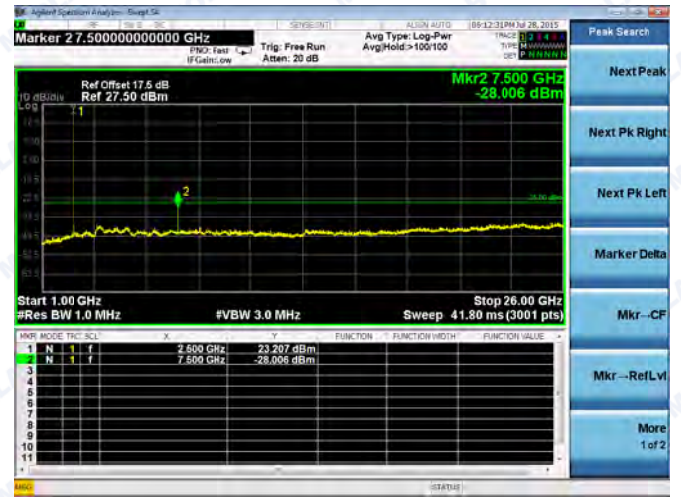




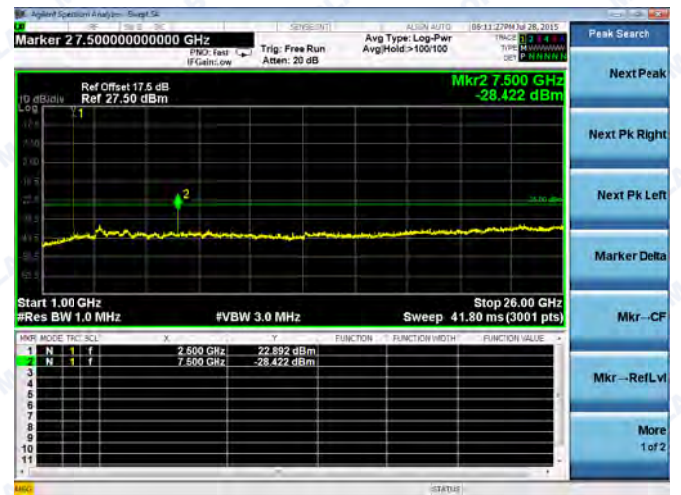
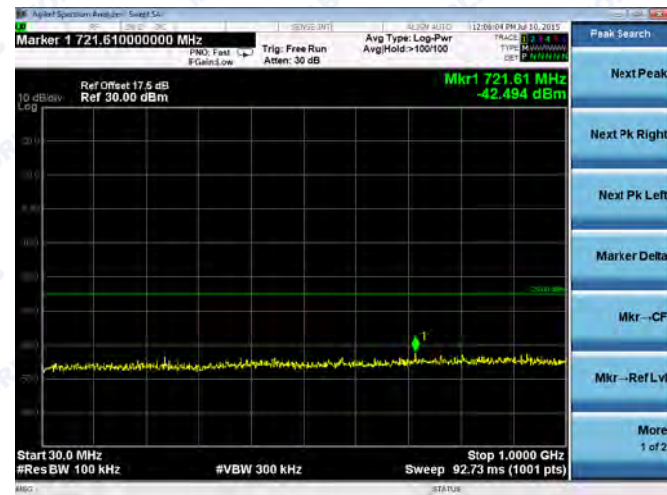
REPORT No.: SZ15060145W02

LTE Band 7 10MHz BW Low Channel

QPSK



16QAM

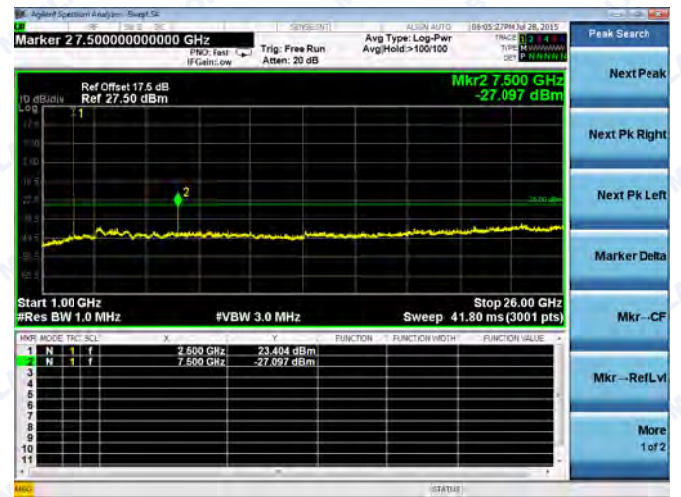
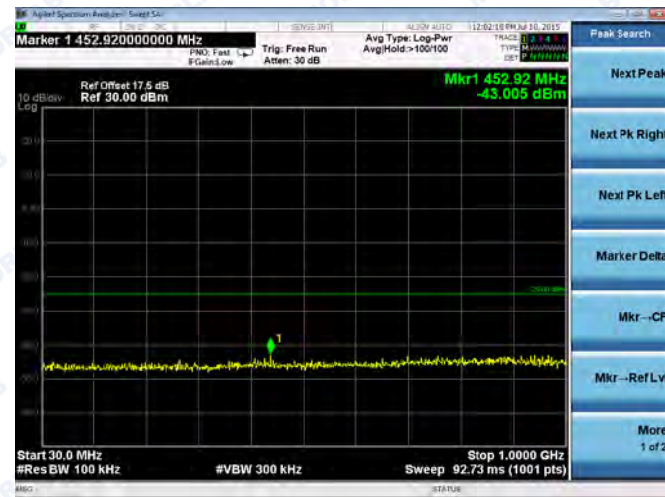




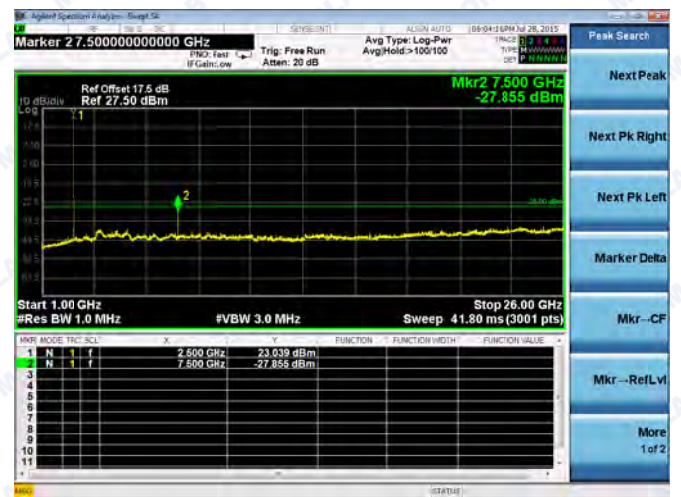
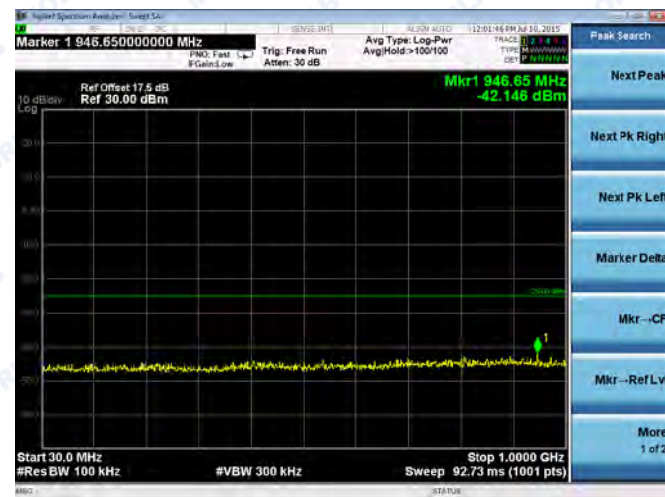
REPORT No.: SZ15060145W02

LTE Band 7 15MHz BW Low Channel

QPSK



16QAM

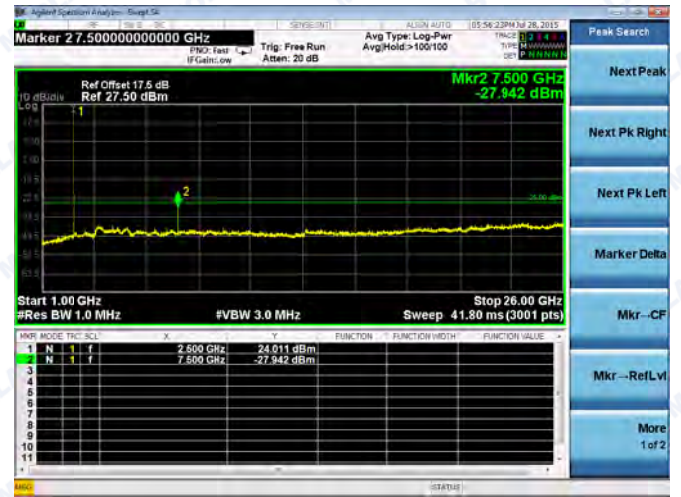
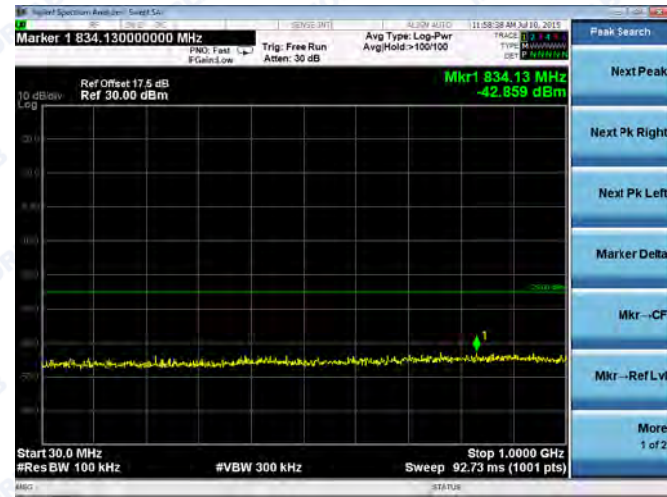




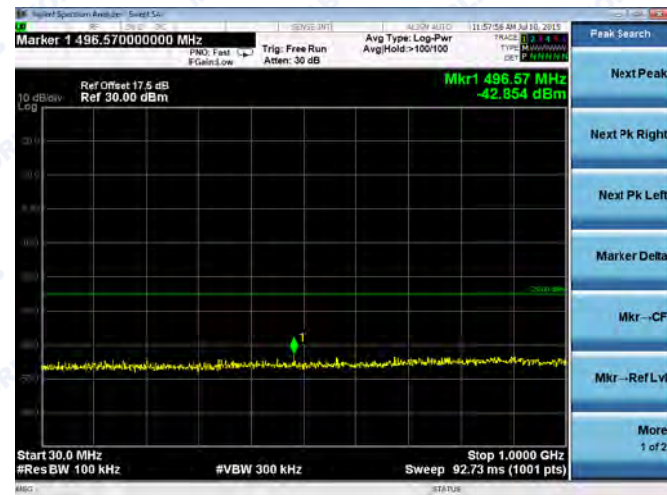
REPORT No.: SZ15060145W02

LTE Band 7 20MHz BW Low Channel

QPSK



16QAM



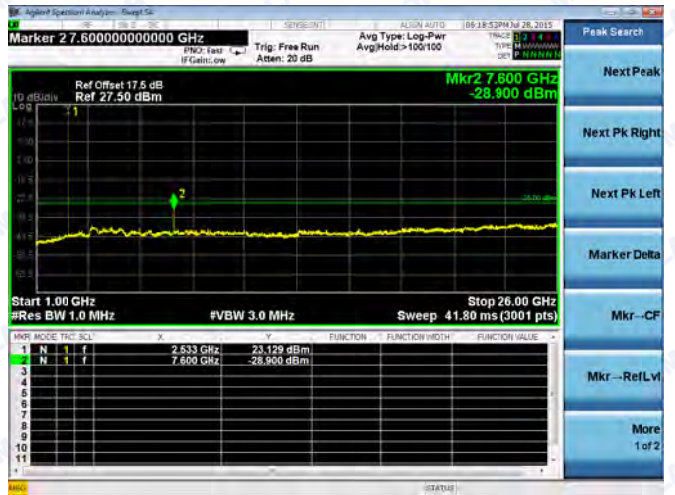


REPORT No.: SZ15060145W02

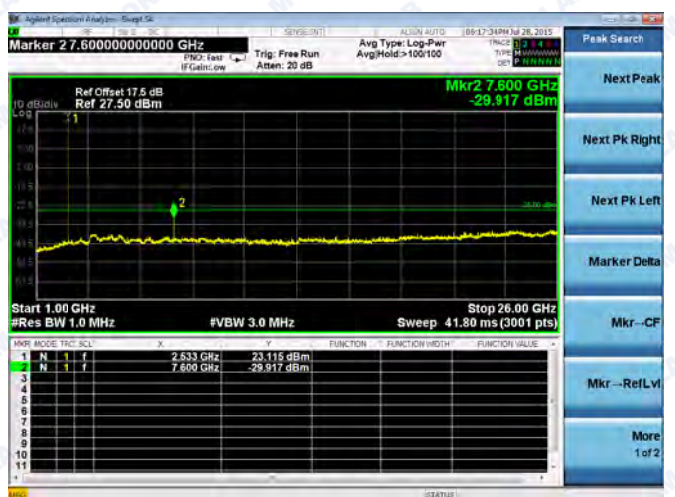
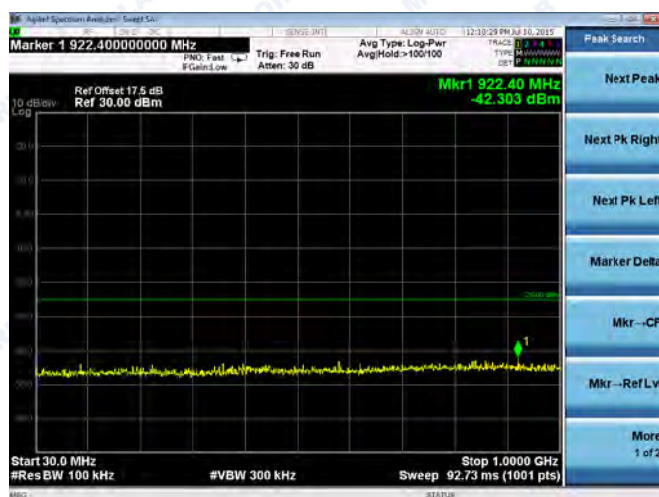
Middle channel:

LTE Band 7 5MHz BW Mid Channel

QPSK



16QAM

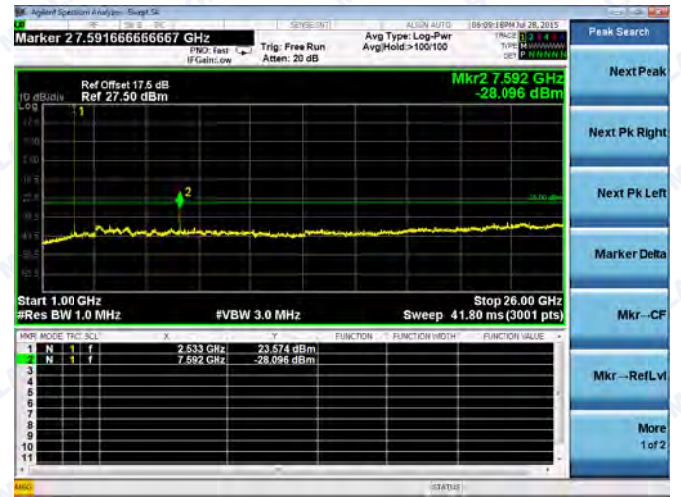
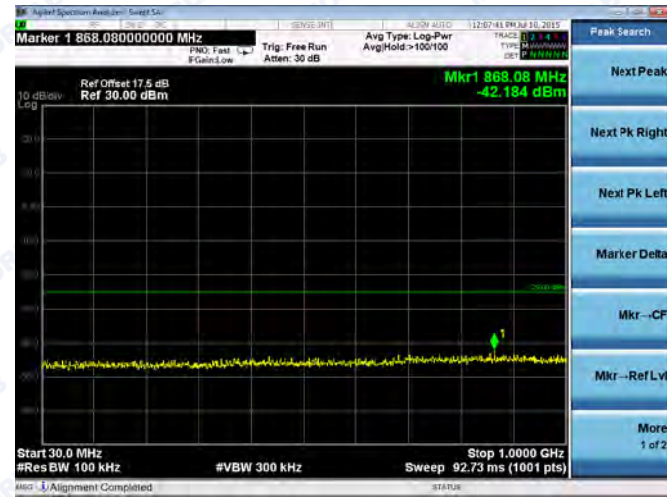




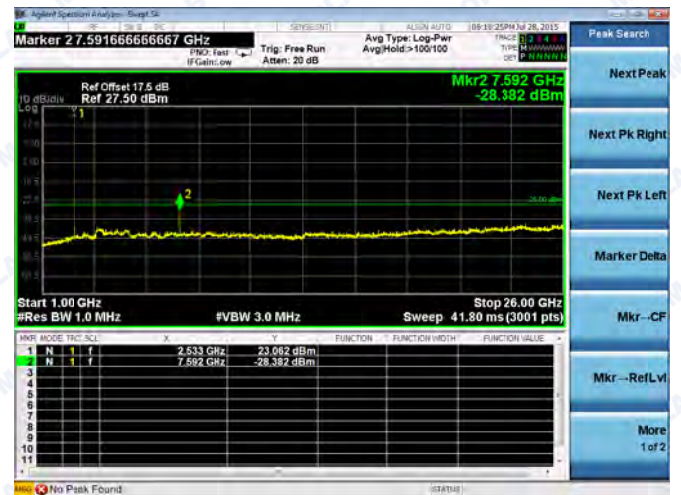
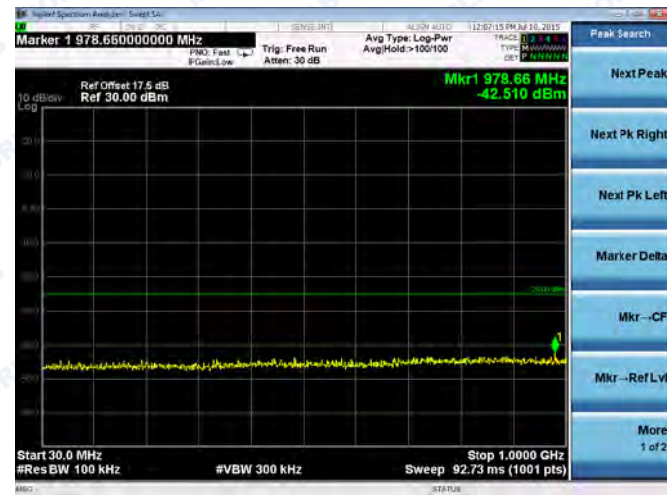
REPORT No.: SZ15060145W02

LTE Band 7 10MHz BW Mid Channel

QPSK



16QAM

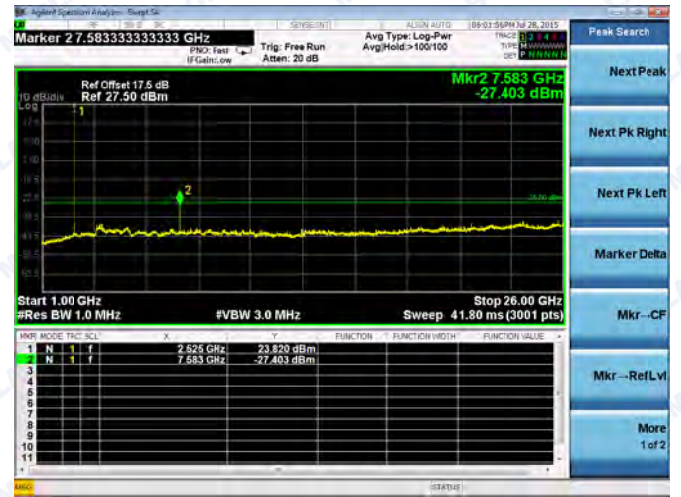
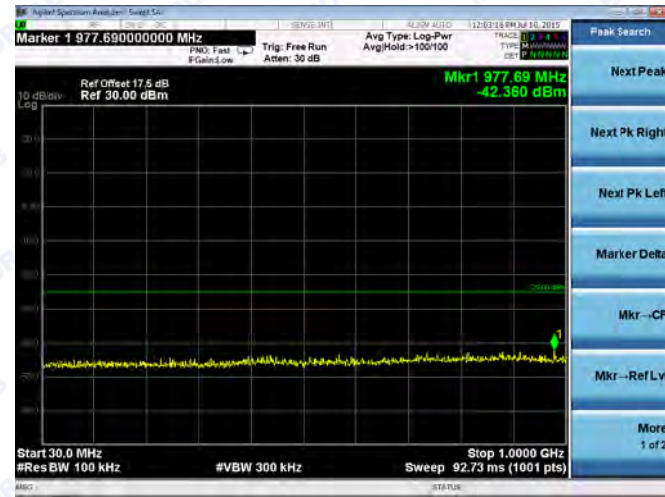




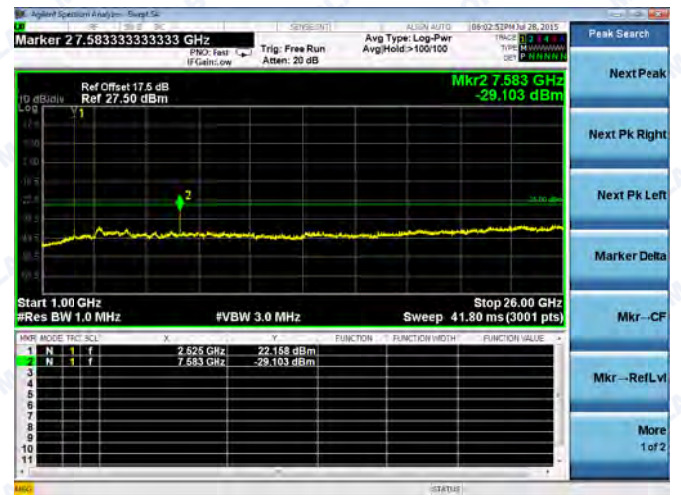
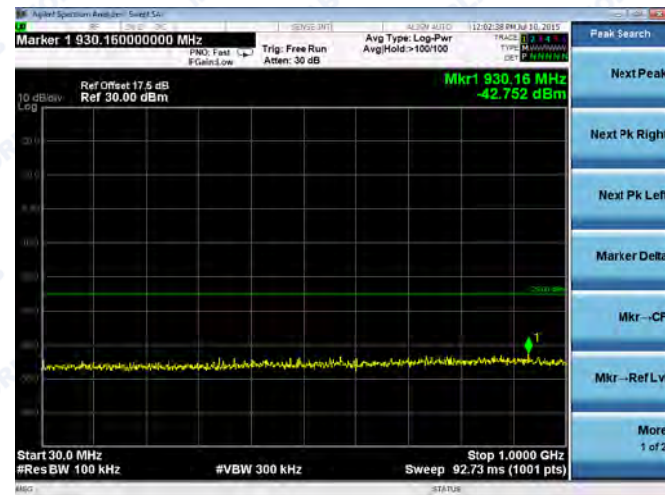
REPORT No.: SZ15060145W02

LTE Band 7 15MHz BW Mid Channel

QPSK



16QAM

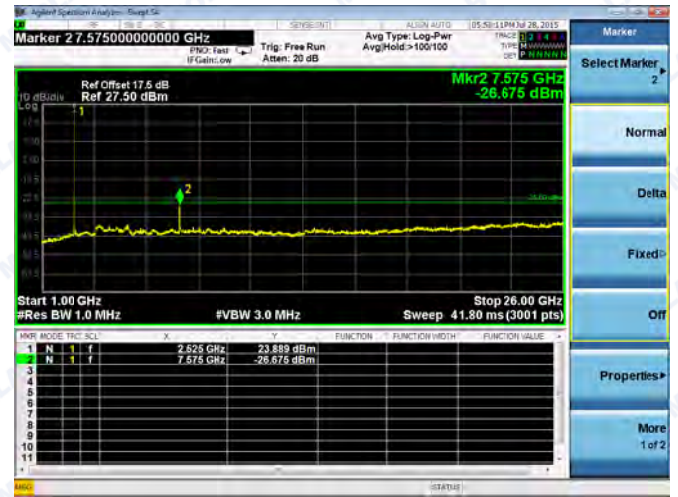
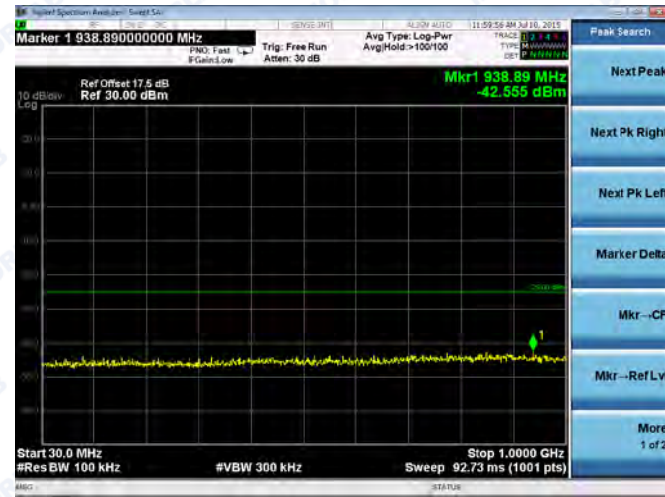




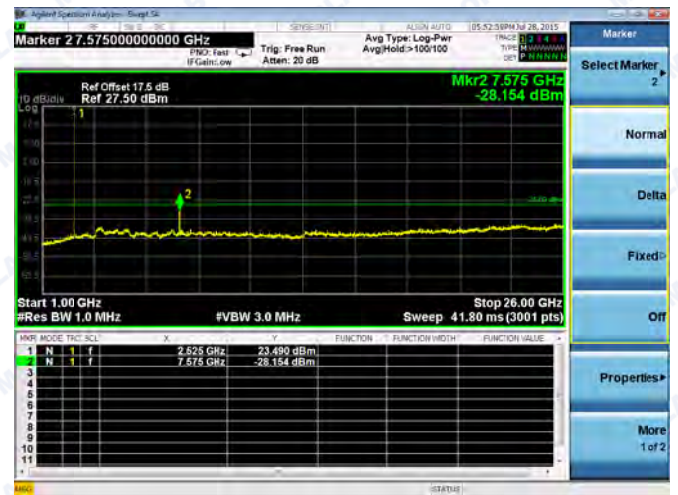
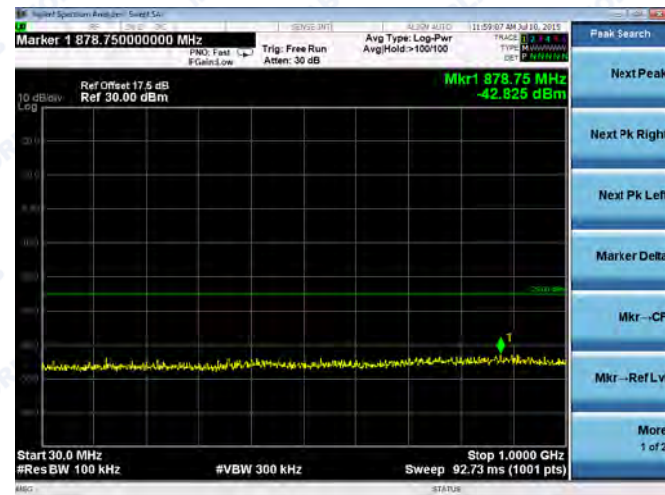
REPORT No.: SZ15060145W02

LTE Band 7 20MHz BW Mid Channel

QPSK



16QAM

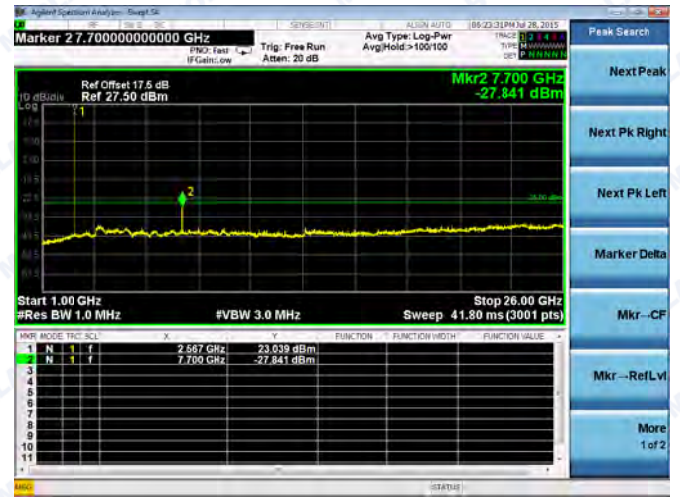
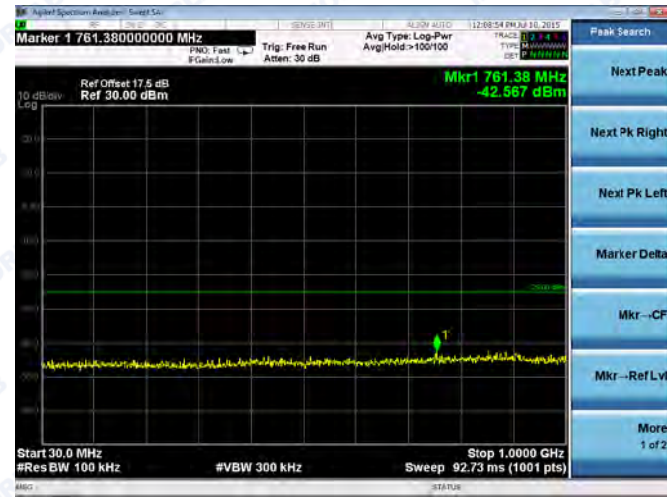




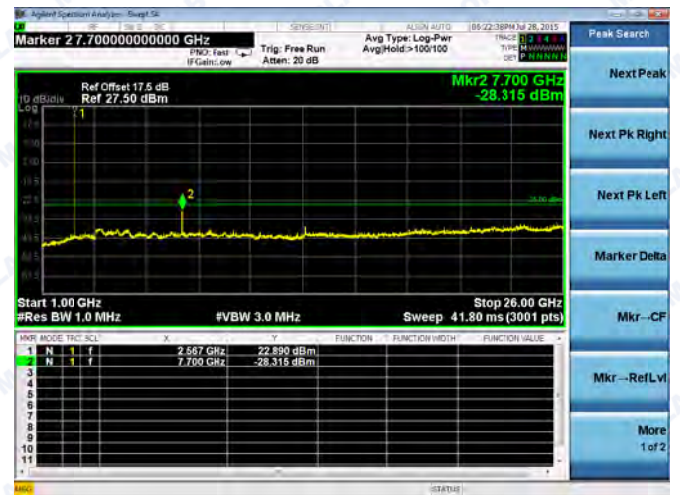
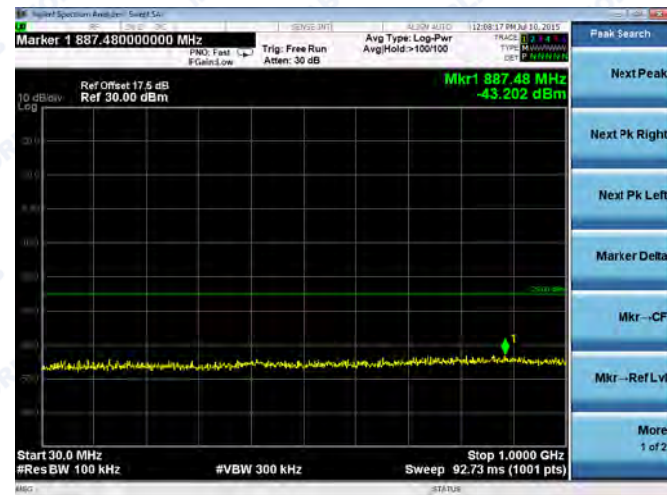
REPORT No.: SZ15060145W02

LTE Band 7 5MHz BW High Channel

QPSK



16QAM

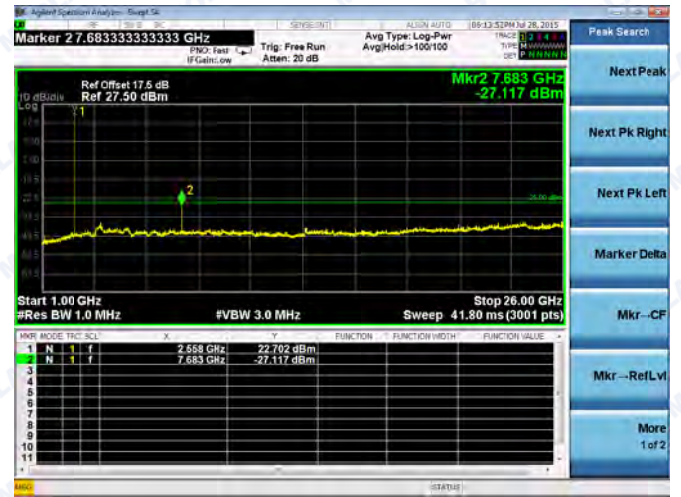
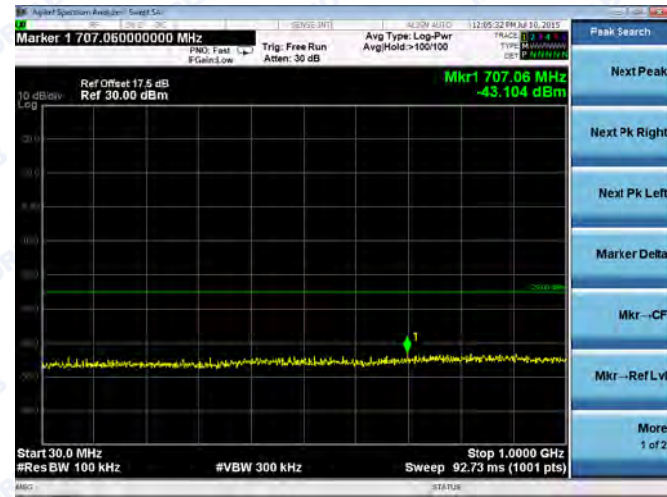




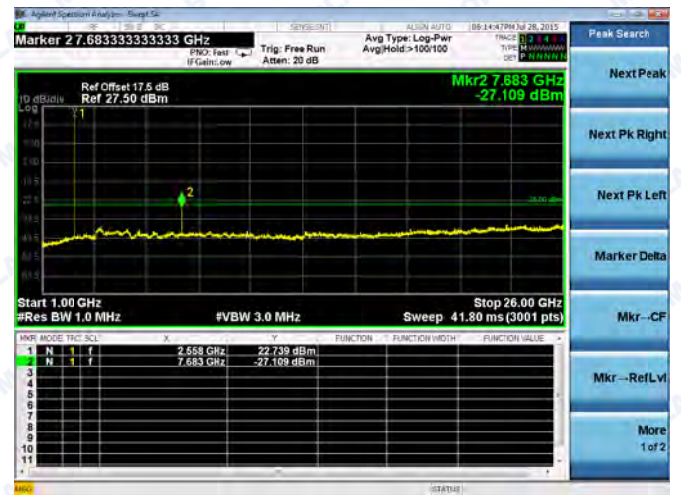
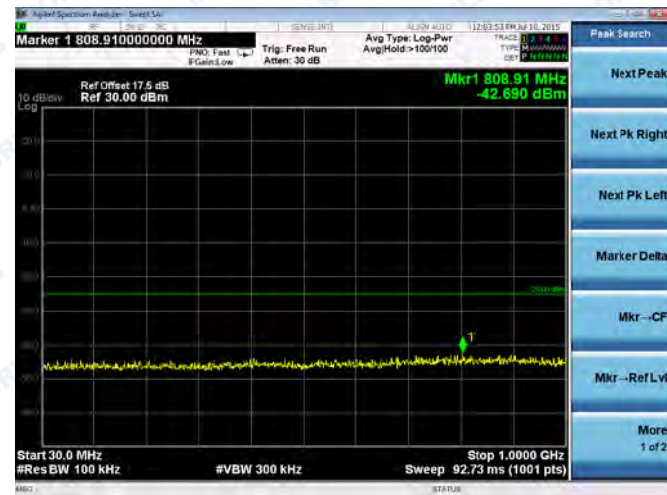
REPORT No.: SZ15060145W02

LTE Band 7 10MHz BW High Channel

QPSK



16QAM

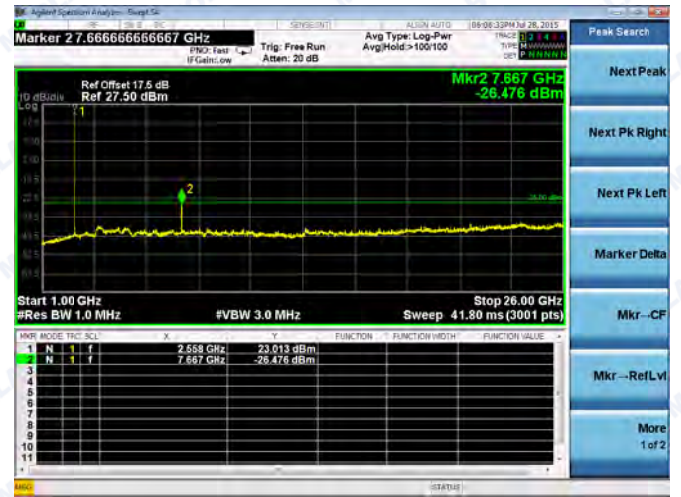
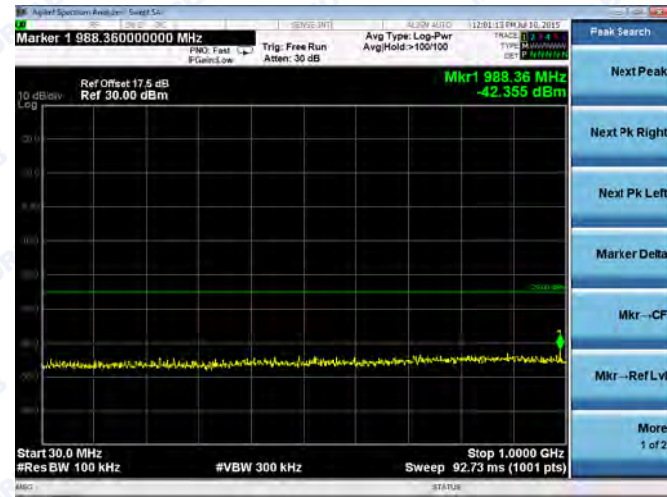




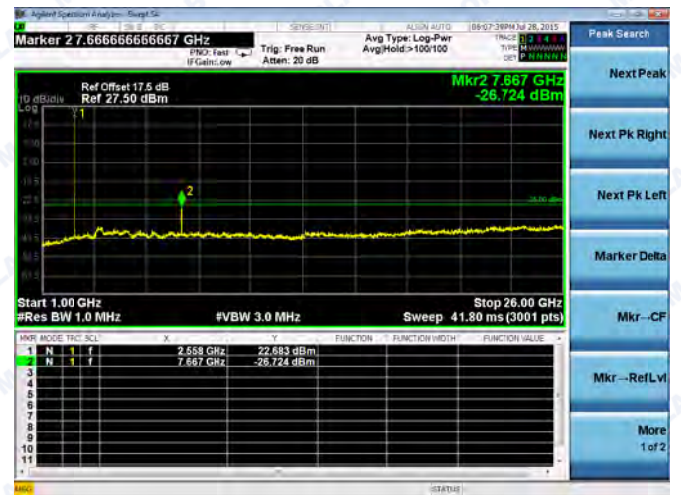
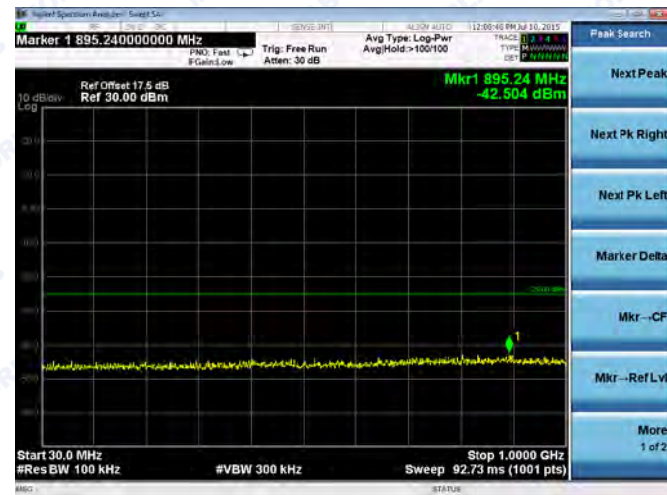
REPORT No.: SZ15060145W02

LTE Band 7 15MHz BW High Channel

QPSK



16QAM

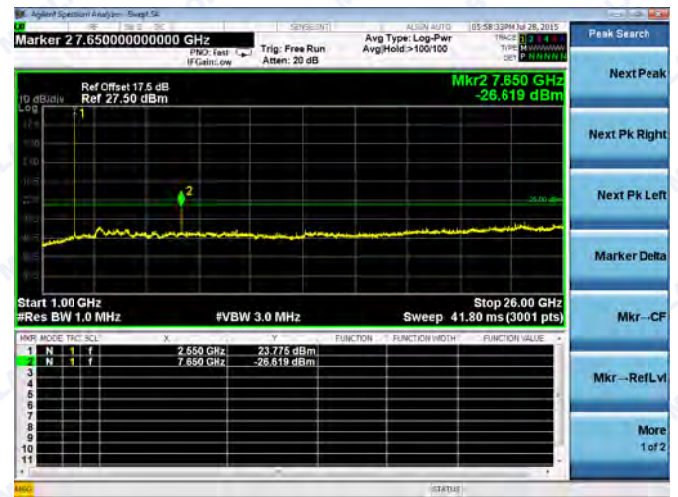
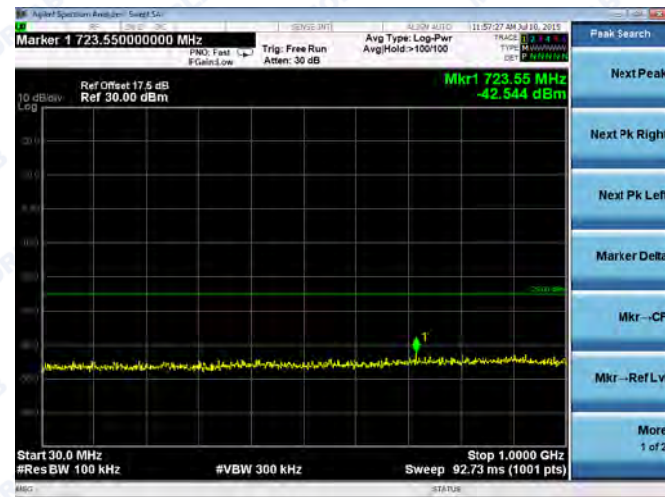




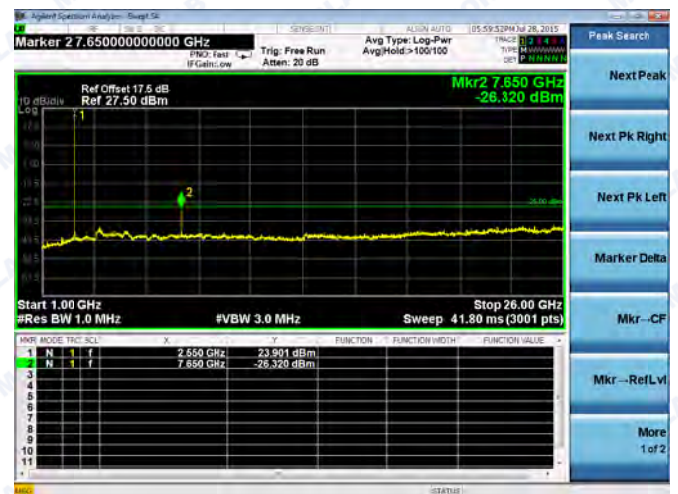
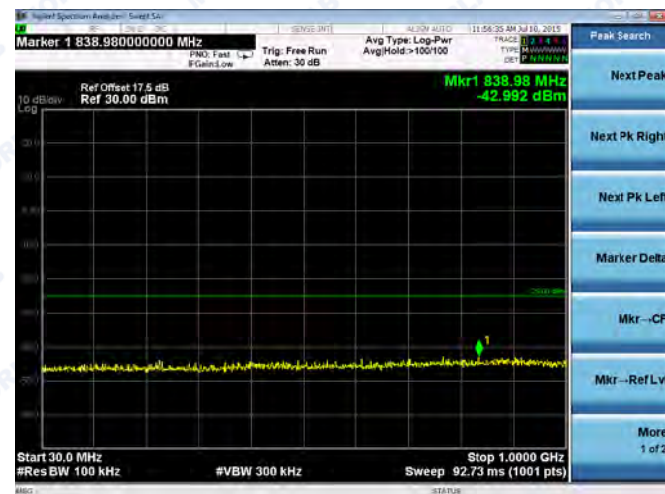
REPORT No.: SZ15060145W02

LTE Band 7 20MHz BW High Channel

QPSK



16QAM

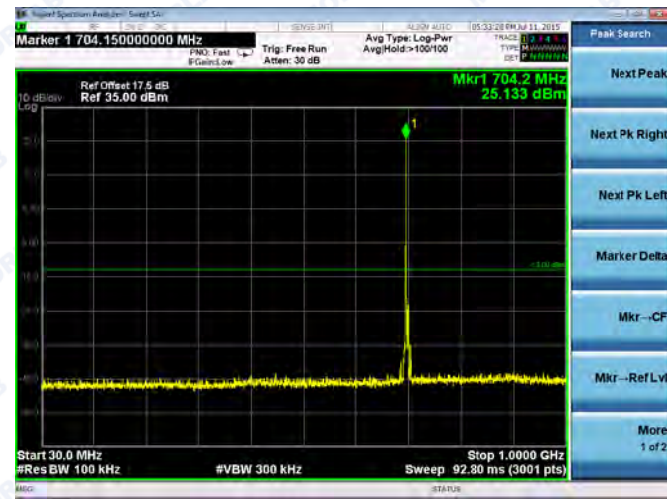




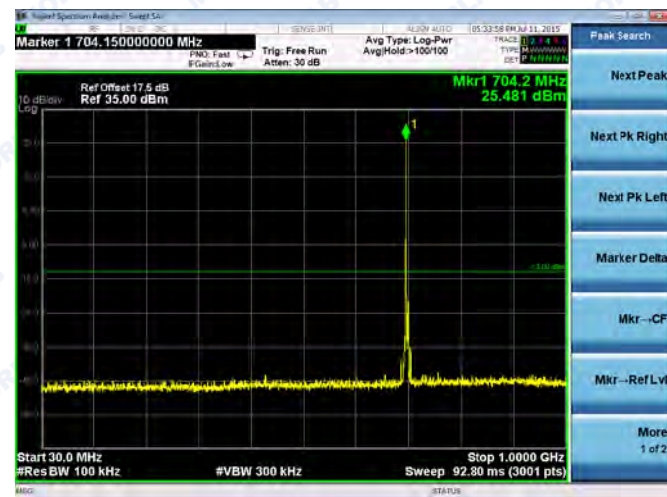
REPORT No.: SZ15060145W02

LTE Band 17 5MHz BW Low Channel

QPSK



16QAM

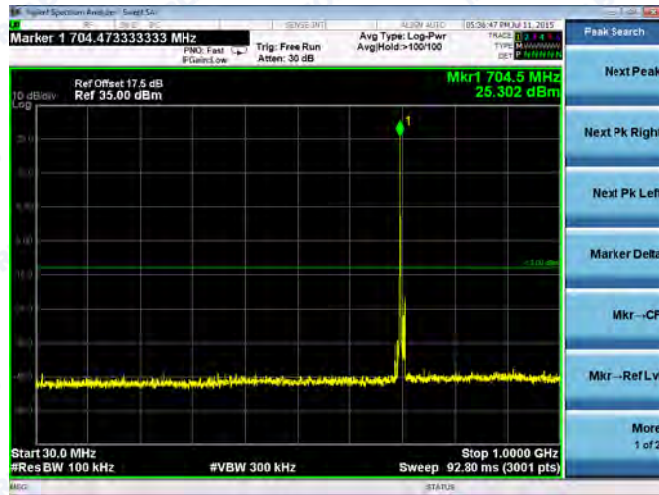




REPORT No.: SZ15060145W02

LTE Band 17 10MHz BW Low Channel

QPSK



16QAM

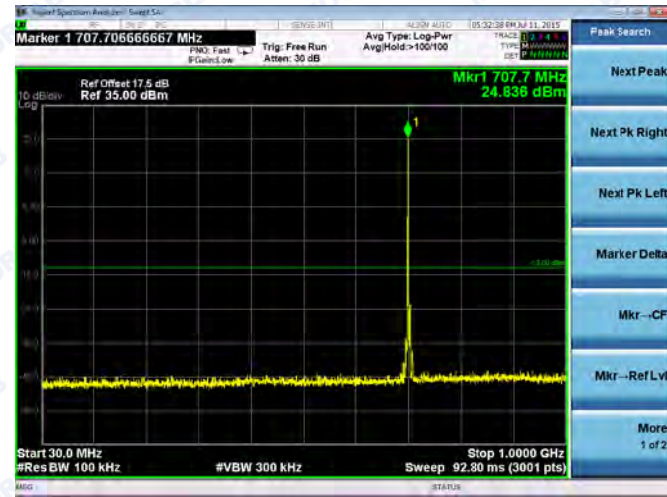




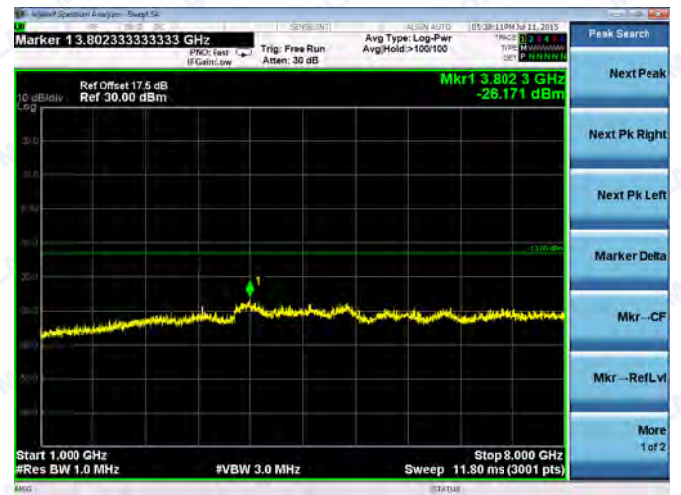
REPORT No.: SZ15060145W02

LTE Band 17 5MHz BW Mid Channel

QPSK



16QAM





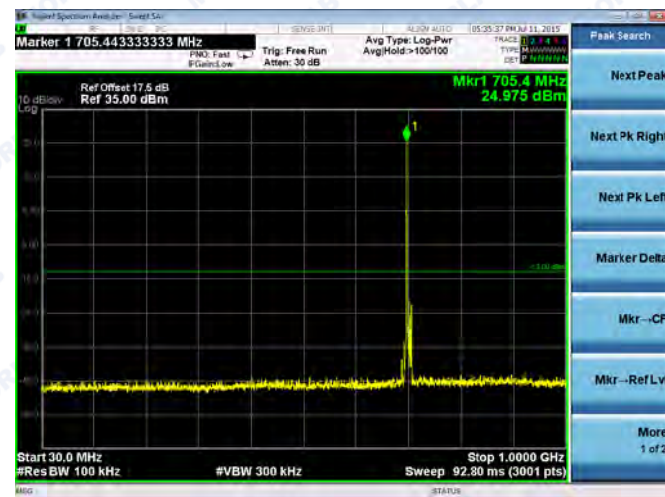
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LTE Band 17 10MHz BW Mid Channel

QPSK



16QAM

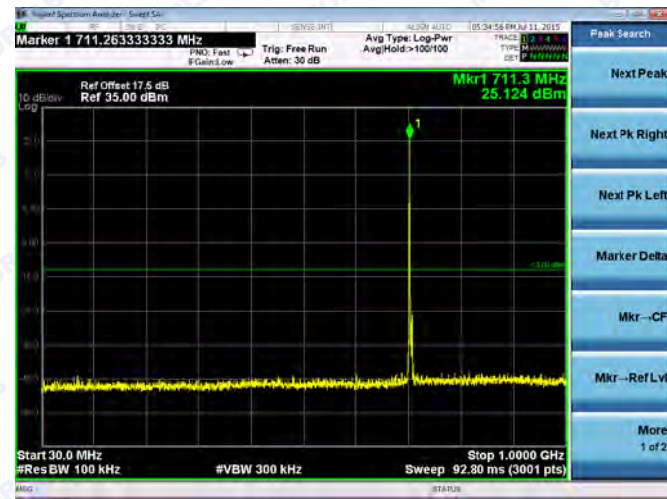




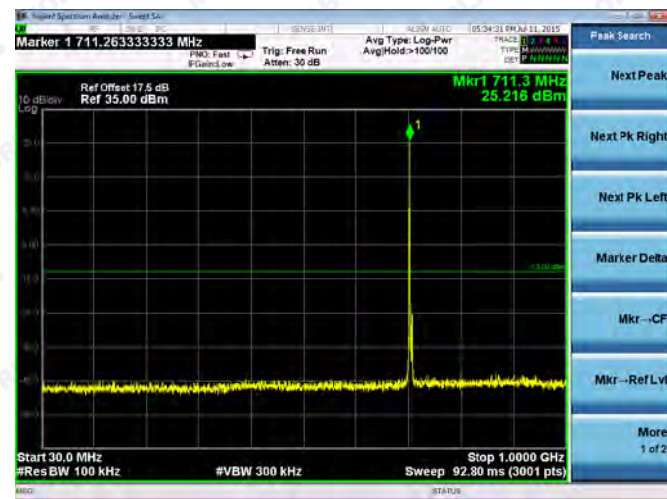
REPORT No.: SZ15060145W02

LTE Band 17 5MHz BW High Channel

QPSK



16QAM

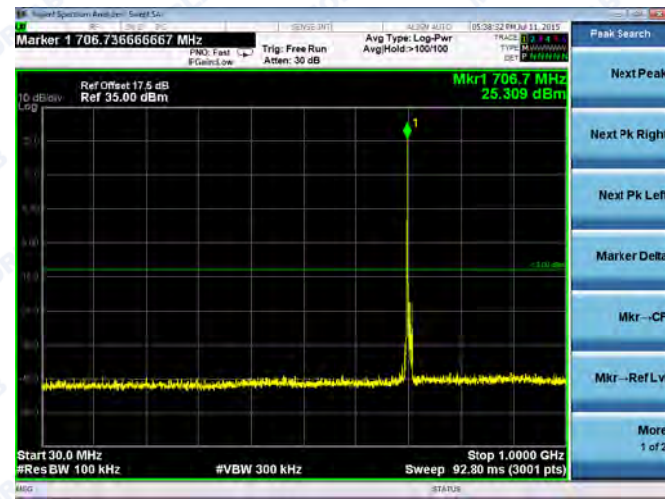




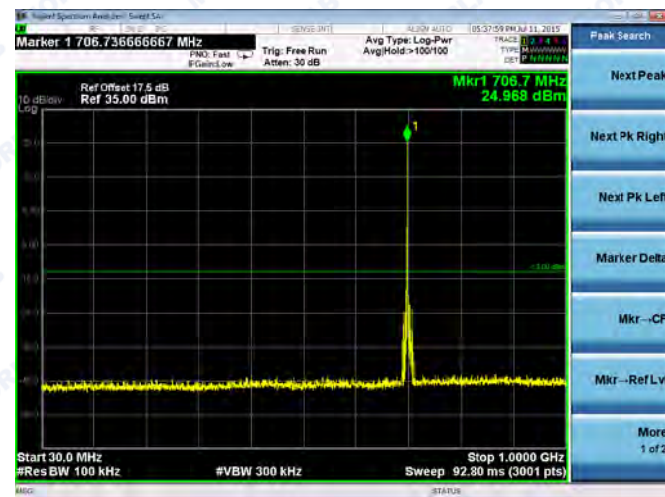
REPORT No.: SZ15060145W02

LTE Band 17 10MHz BW High Channel

QPSK



16QAM





2.6 Band Edge

2.6.1 Requirement

According to FCC section 27.53(g) (h), (g) For operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. 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.

(h) For operations in the 1710–1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

According to FCC section 27.53(m) (4), (m) (4) For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees

2.6.2 Test Description

See section 2.1.2 of this report.

2.6.3 Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

PASS. See the attached plots.



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LTE Band 2

Channel Bandwidth: 1.4MHz

Channel	18607	RB Size 1	RB Offset 0	Channel	18607	RB Size 6	RB Offset 0
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Channel Bandwidth: 1.4MHz

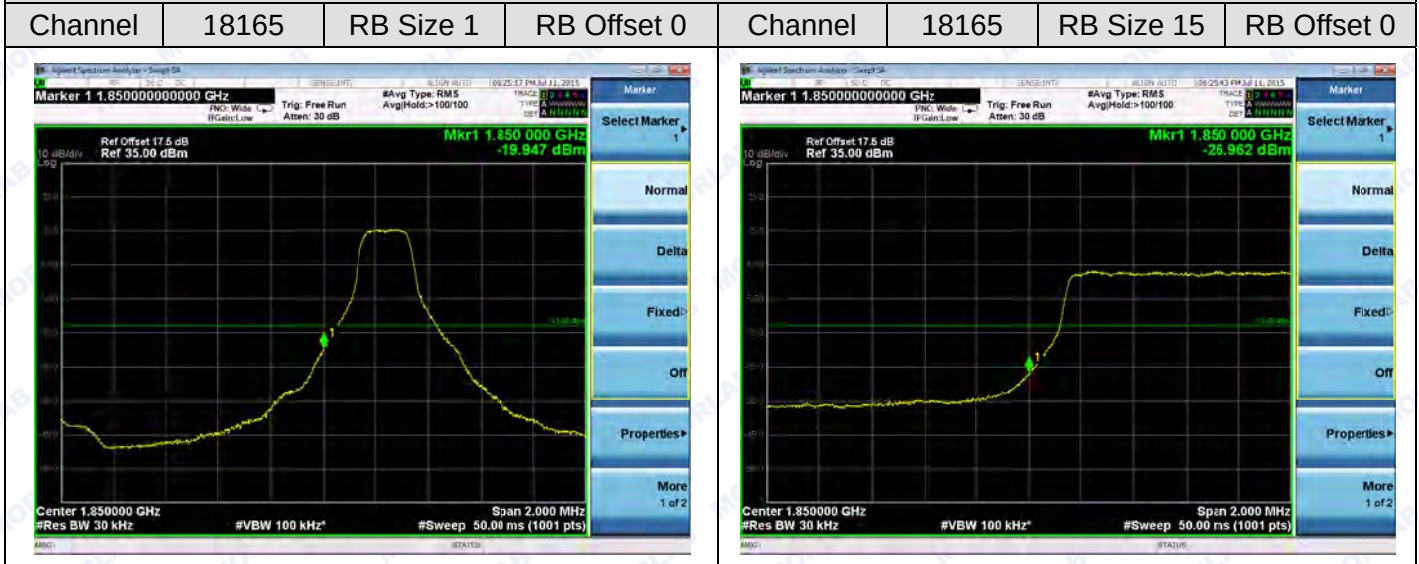
Channel	19192	RB Size 1	RB Offset 5	Channel	19192	RB Size 6	RB Offset 0
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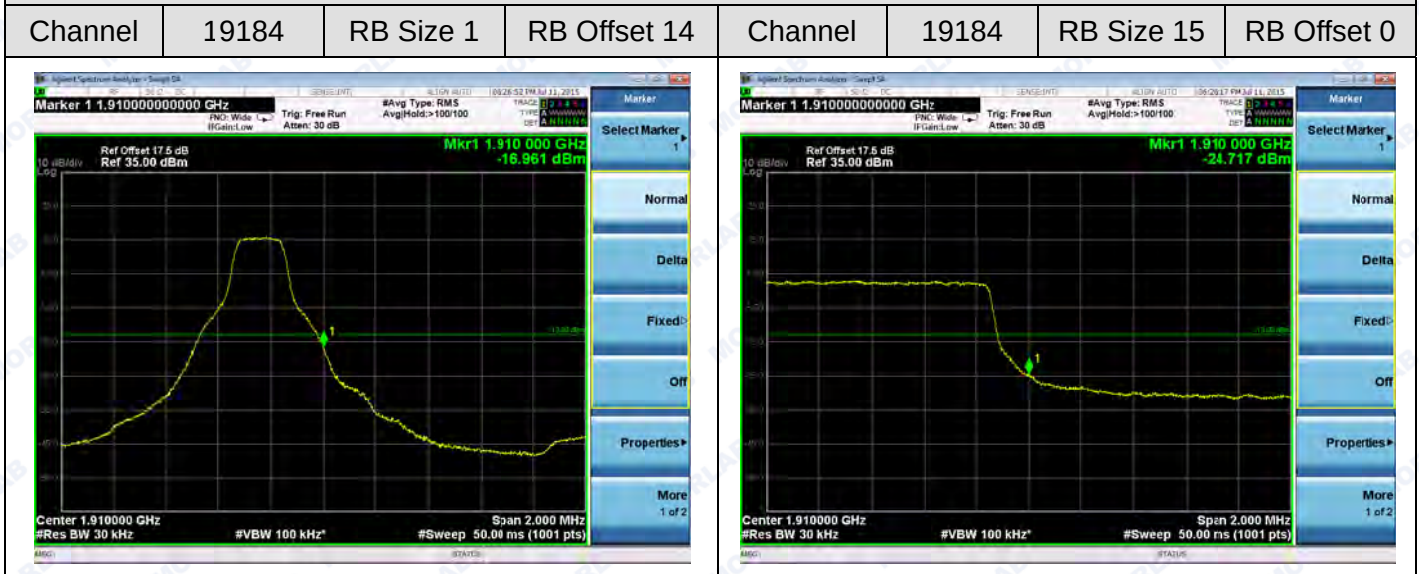


LTE Band 2

Channel Bandwidth: 3MHz



Channel Bandwidth: 3MHz





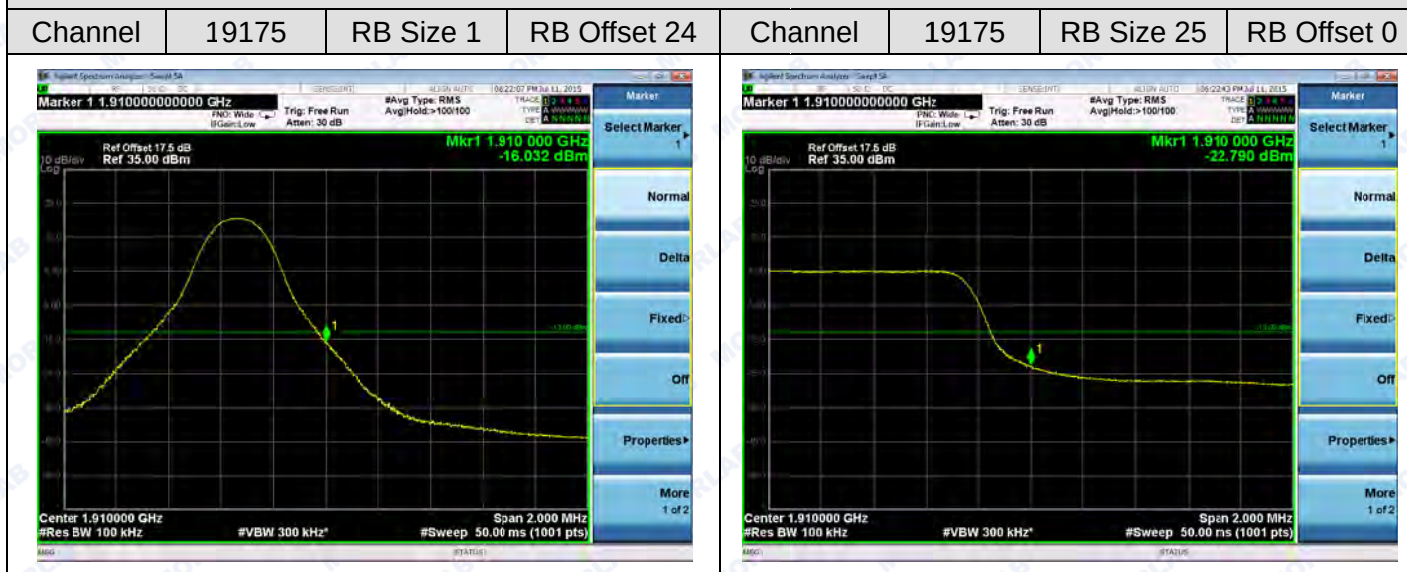
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LTE Band 2

Channel Bandwidth: 5MHz



Channel Bandwidth: 5MHz





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LTE Band 2

Channel Bandwidth: 10MHz

Channel	18650	RB Size 1	RB Offset 0	Channel	18650	RB Size 50	RB Offset 0
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Channel Bandwidth: 10MHz

Channel	19150	RB Size 1	RB Offset 49	Channel	19150	RB Size 50	RB Offset 0
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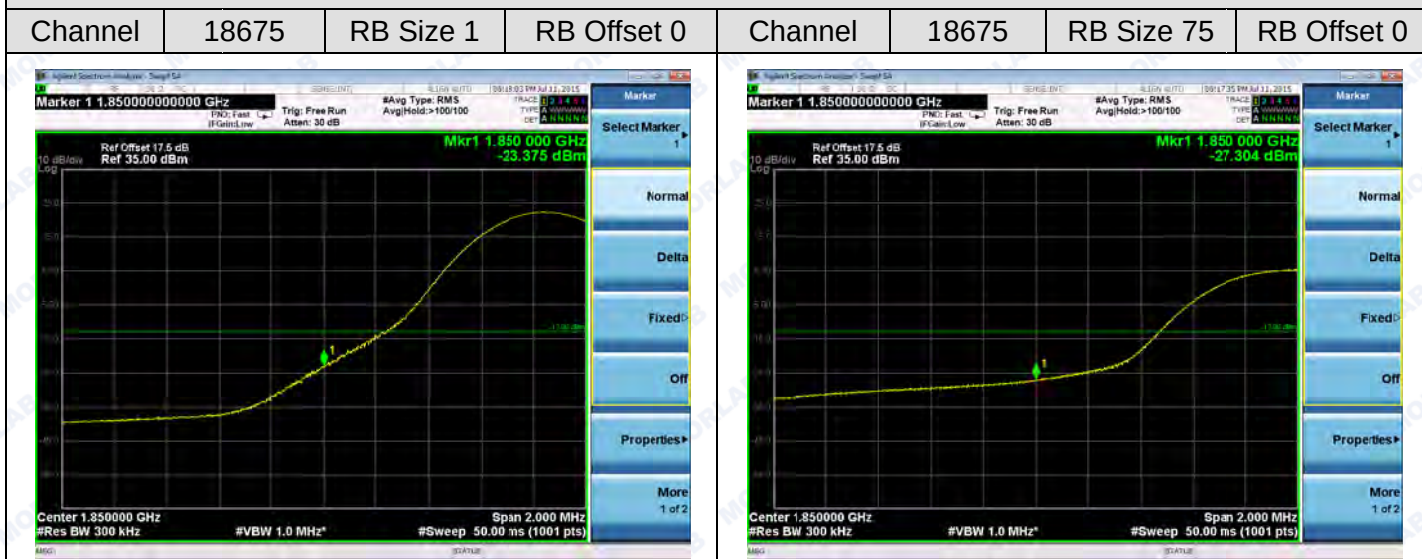




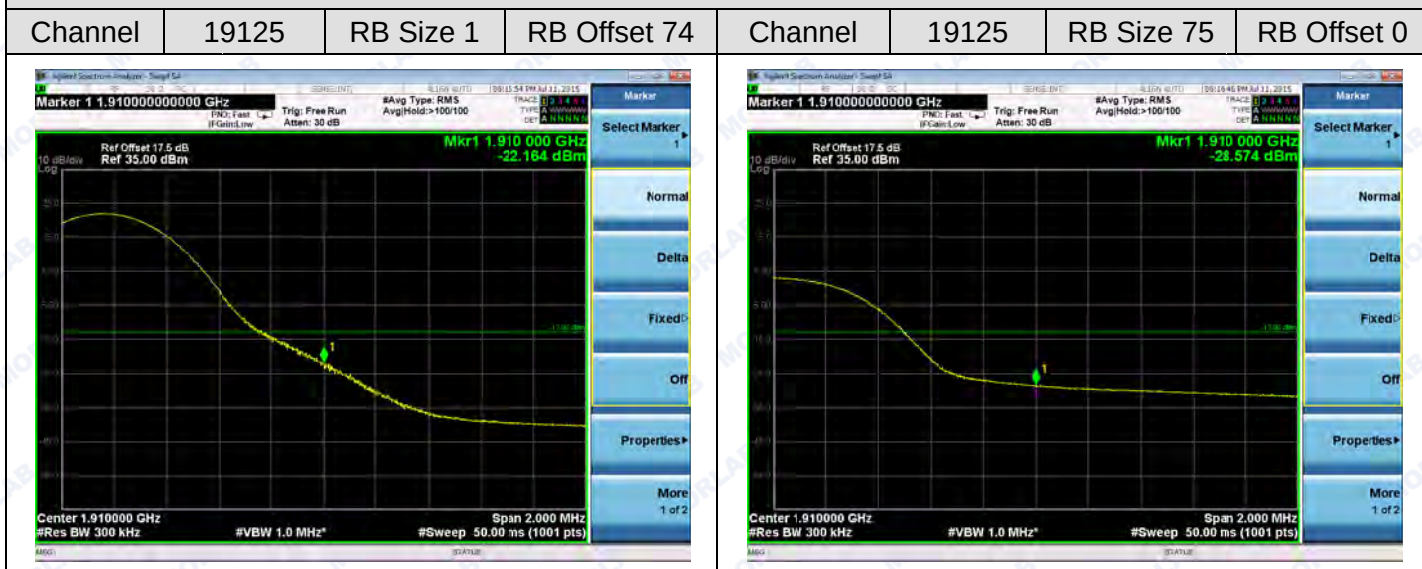
REPORT No.: SZ15060145W02

LTE Band 2

Channel Bandwidth: 15MHz



Channel Bandwidth: 15MHz

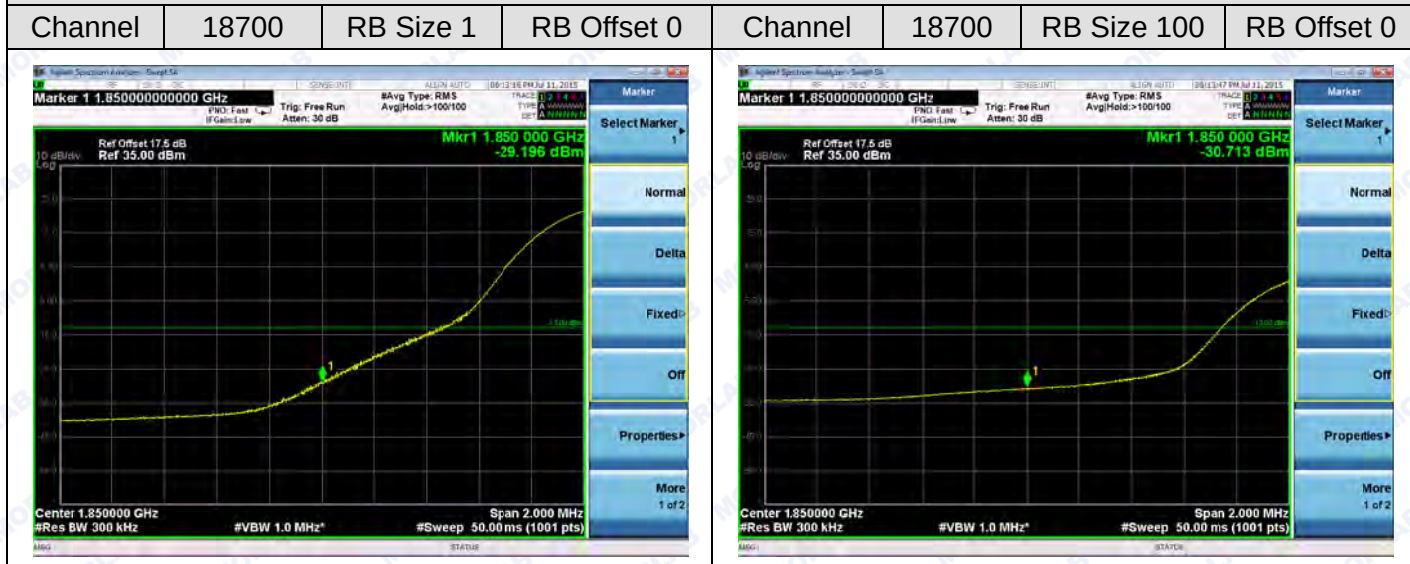




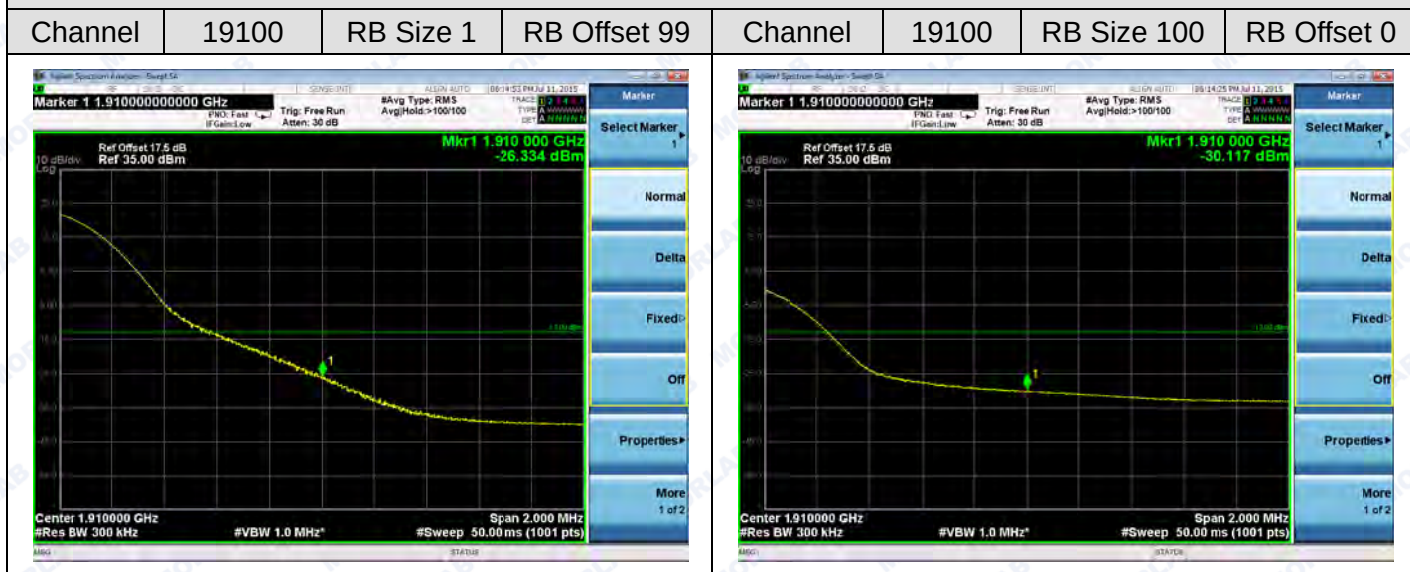
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LTE Band 2

Channel Bandwidth: 20MHz



Channel Bandwidth: 20MHz





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LTE Band 4

Channel Bandwidth: 1.4MHz

Channel	19957	RB Size 1	RB Offset 0	Channel	20393	RB Size 6	RB Offset 0
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Channel Bandwidth: 1.4MHz

Channel	19957	RB Size 1	RB Offset 5	Channel	20393	RB Size 6	RB Offset 0
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LTE Band 4

Channel Bandwidth: 3MHz

Channel	19965	RB Size 1	RB Offset 0	Channel	20385	RB Size 15	RB Offset 0
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Channel Bandwidth: 3MHz

Channel	19965	RB Size 1	RB Offset 14	Channel	20385	RB Size 15	RB Offset 0
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LTE Band 4

Channel Bandwidth: 5MHz

Channel	19975	RB Size 1	RB Offset 0	Channel	20375	RB Size 25	RB Offset 0
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Channel Bandwidth: 5MHz

Channel	19975	RB Size 1	RB Offset 24	Channel	20375	RB Size 25	RB Offset 0
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LTE Band 4

Channel Bandwidth: 10MHz

Channel	20000	RB Size 1	RB Offset 0	Channel	20350	RB Size 50	RB Offset 0
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Channel Bandwidth: 10MHz

Channel	20000	RB Size 1	RB Offset 49	Channel	20350	RB Size 50	RB Offset 0
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LTE Band 4

Channel Bandwidth: 15MHz

Channel	20025	RB Size 1	RB Offset 0	Channel	20325	RB Size 75	RB Offset 0
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Channel Bandwidth: 15MHz

Channel	20025	RB Size 1	RB Offset 74	Channel	20325	RB Size 75	RB Offset 0
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LTE Band 4

Channel Bandwidth: 20MHz

Channel	20050	RB Size 1	RB Offset 0	Channel	20300	RB Size 100	RB Offset 0
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Channel Bandwidth: 20MHz

Channel	20050	RB Size 1	RB Offset 99	Channel	20300	RB Size 100	RB Offset 0
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LTE Band 5

Channel Bandwidth: 1.4MHz

Channel	20407	RB Size 1	RB Offset 0	Channel	20407	RB Size 6	RB Offset 0
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Channel Bandwidth: 1.4MHz

Channel	20642	RB Size 1	RB Offset 5	Channel	20642	RB Size 6	RB Offset 0
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LTE Band 5

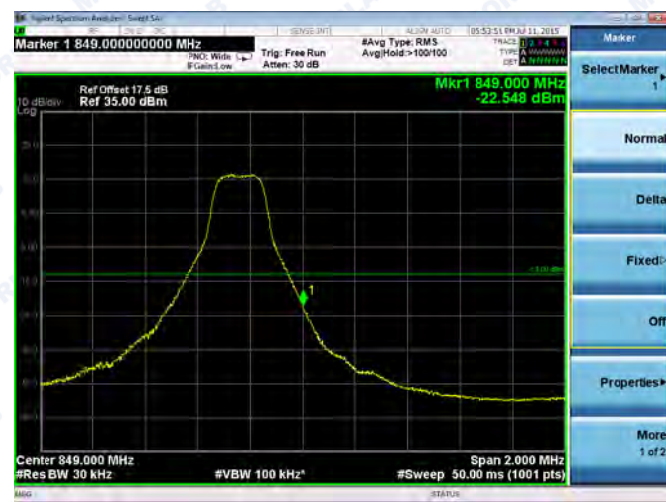
Channel Bandwidth: 3MHz

Channel	20415	RB Size 1	RB Offset 0	Channel	20415	RB Size 15	RB Offset 0
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Channel Bandwidth: 3MHz

Channel	20634	RB Size 1	RB Offset 14	Channel	20634	RB Size 15	RB Offset 0
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Channel Bandwidth: 5MHz

File Edit View Window Help
 Spectrum Analyzer - Sweep On
 1 824.000 MHz
 Marker 1 824.00000000 MHz
 PK's Wide View
 IF Gain: low
 Trig: Free Run
 Atten: 30 dB
 HOLD AUTO
 (05-51 3596 Jul 21, 2012)
 #Avg Type: RMS
 Avg/Hold: >100/100
 TRACE 1 1 1
 TYPE 1A MAX/MIN
 DB 1A MAX/MIN
 Marker
 Select Marker
 1
 Normal
 Delta
 Fixed
 Off
 Properties
 More
 1 of 2
 Center 824.000 MHz
 #Res BW 100 kHz
 #VBW 300 kHz*
 Span 2.000 MHz
 #Sweep 50.00 ms (1001 pts)
 10 dBm
 Log
 Ref Offset 17.5 dB
 Ref 35.00 dBm
 Mkr1 824.000 MHz
 -25.761 dBm
 17.00 dBm
 1

Marker 1 849.000000000 MHz

Ref Offset 17.5 dB
Ref 35.00 dBm

Marker 1 849.000 MHz
-26.388 dBm

13.00 dBm

Center 849.000 MHz
#Res BW 100 kHz
#VBW 300 kHz*

Span 2.000 MHz
#Sweep 50.00 ms (1001 pts)

Marker

Select Marker

Normal

Delta

Fixed

Off

Properties

More

1 of 2

STATUS



LTE Band 5

Channel Bandwidth: 10MHz

Channel	20450	RB Size 1	RB Offset 0	Channel	20450	RB Size 50	RB Offset 0
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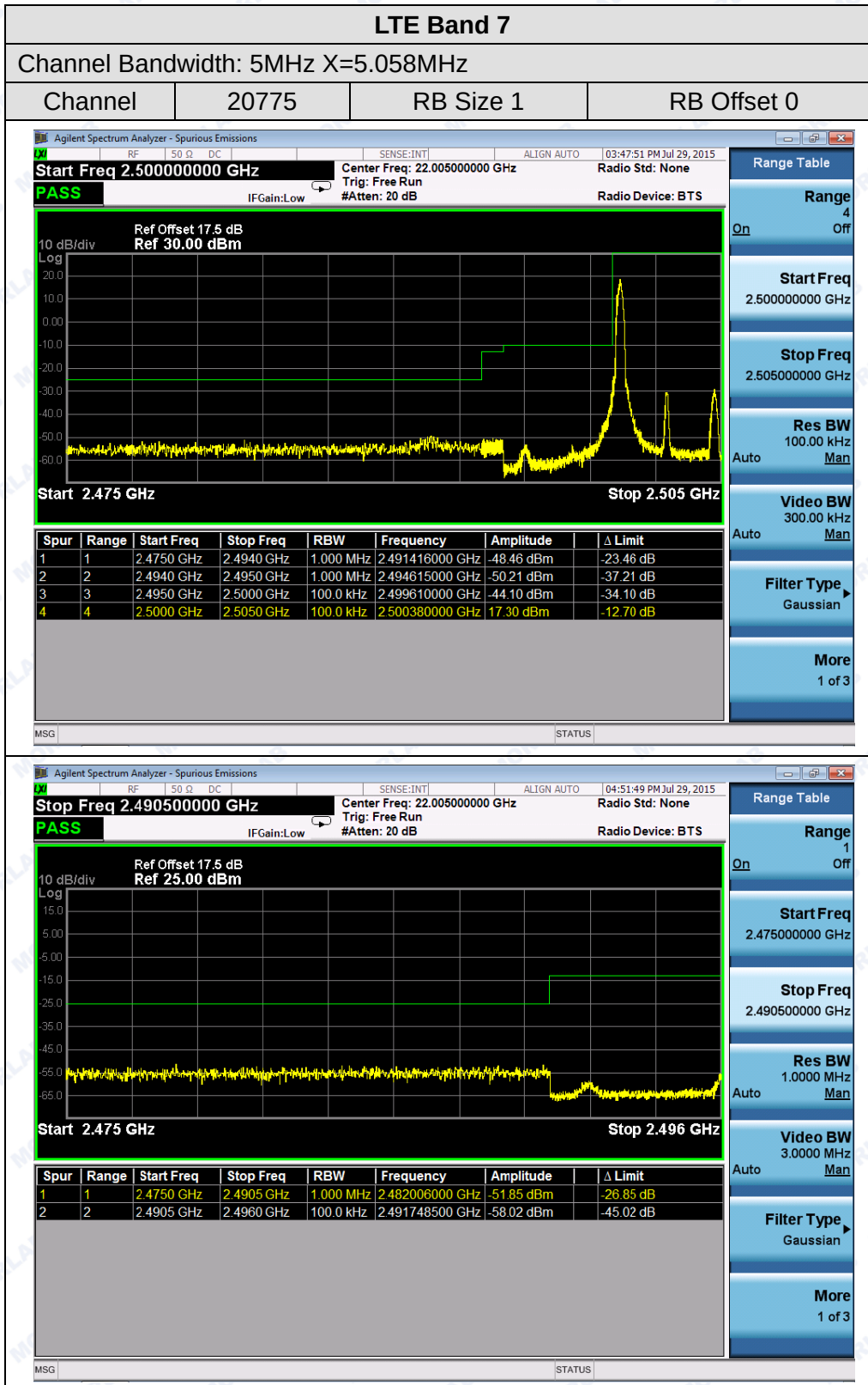
Channel Bandwidth: 10MHz

Channel	20600	RB Size 1	RB Offset 49	Channel	20600	RB Size 50	RB Offset 0
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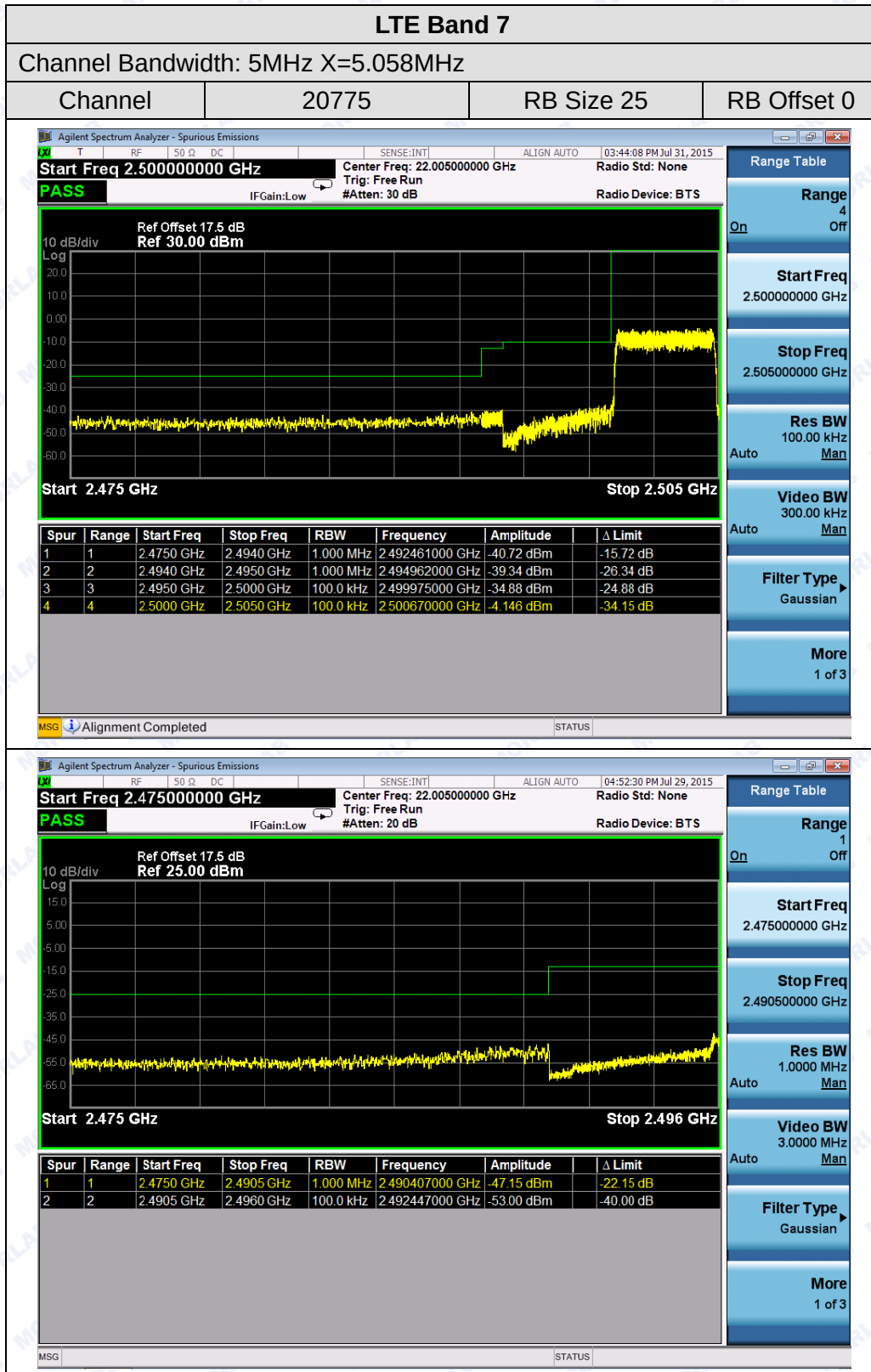


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LTE Band 7

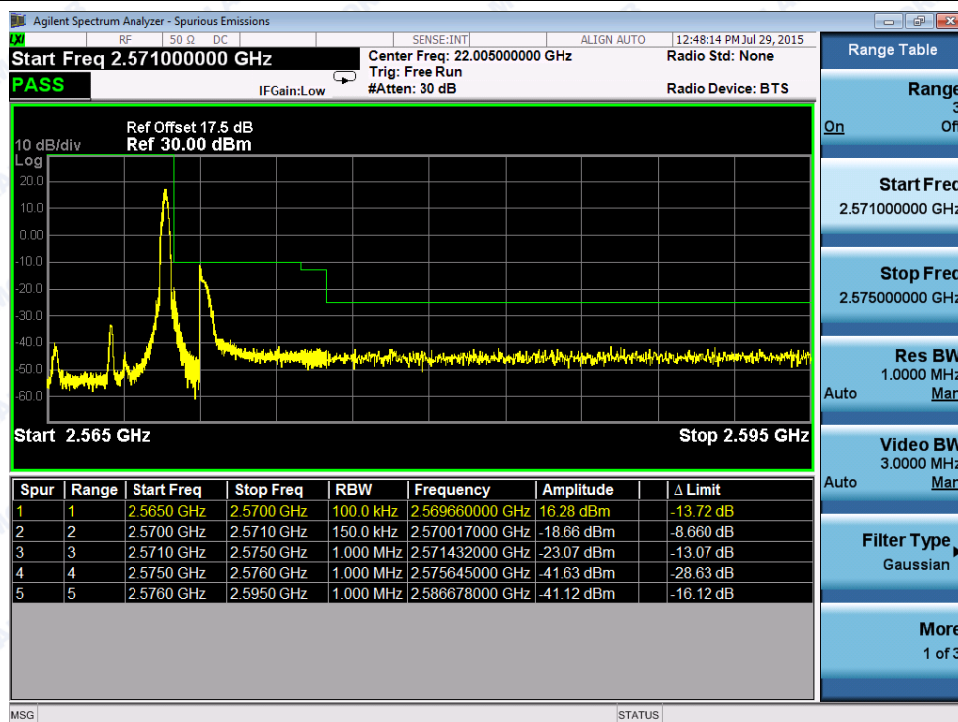
Channel Bandwidth: 5MHz X=5.012MHz

Channel

21425

RB Size 1

RB Offset 24

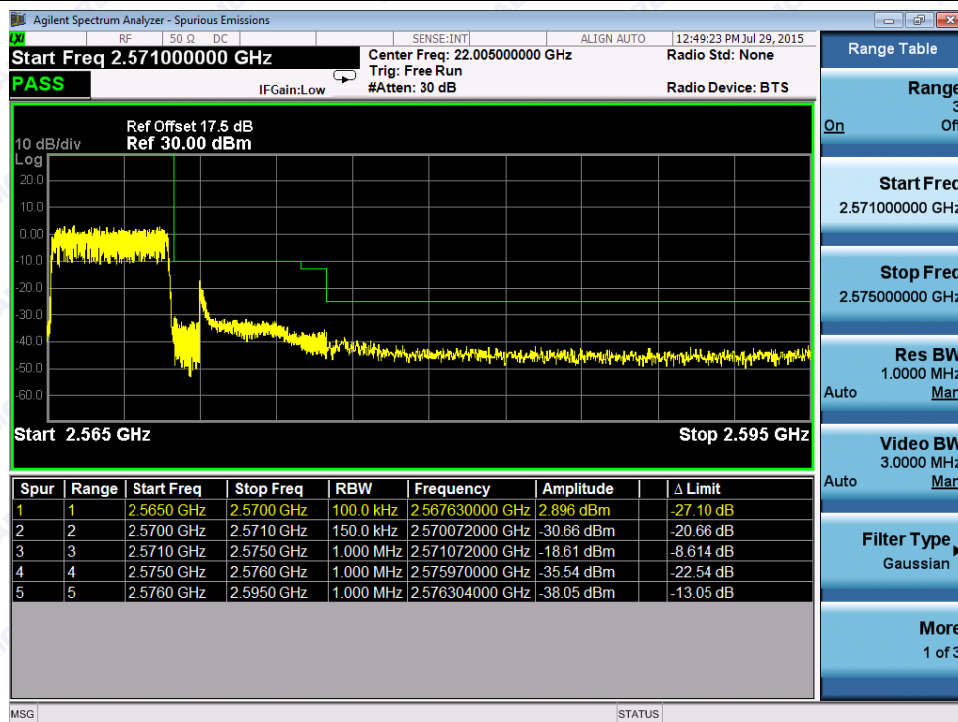


Channel

21425

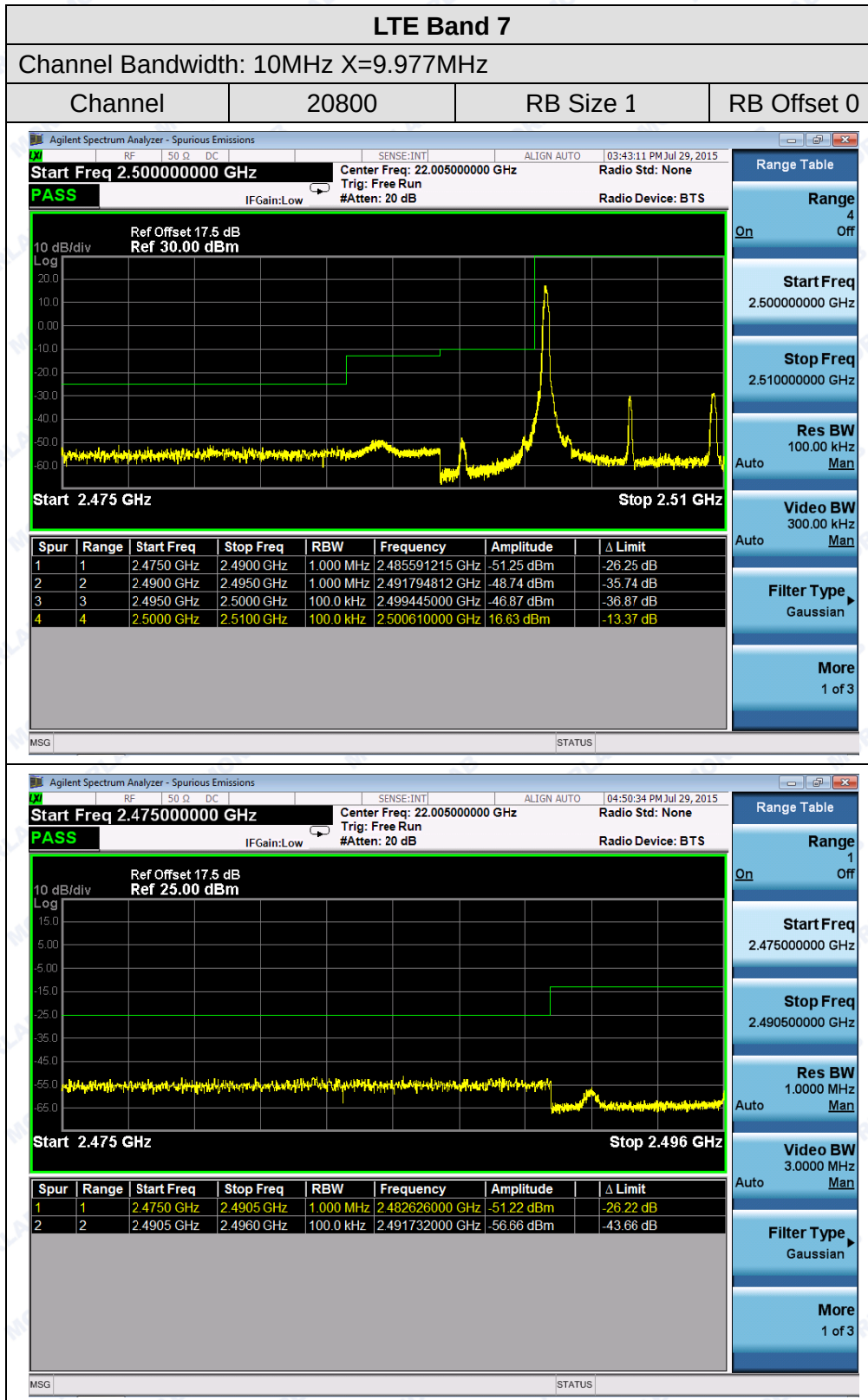
RB Size 25

RB Offset 0



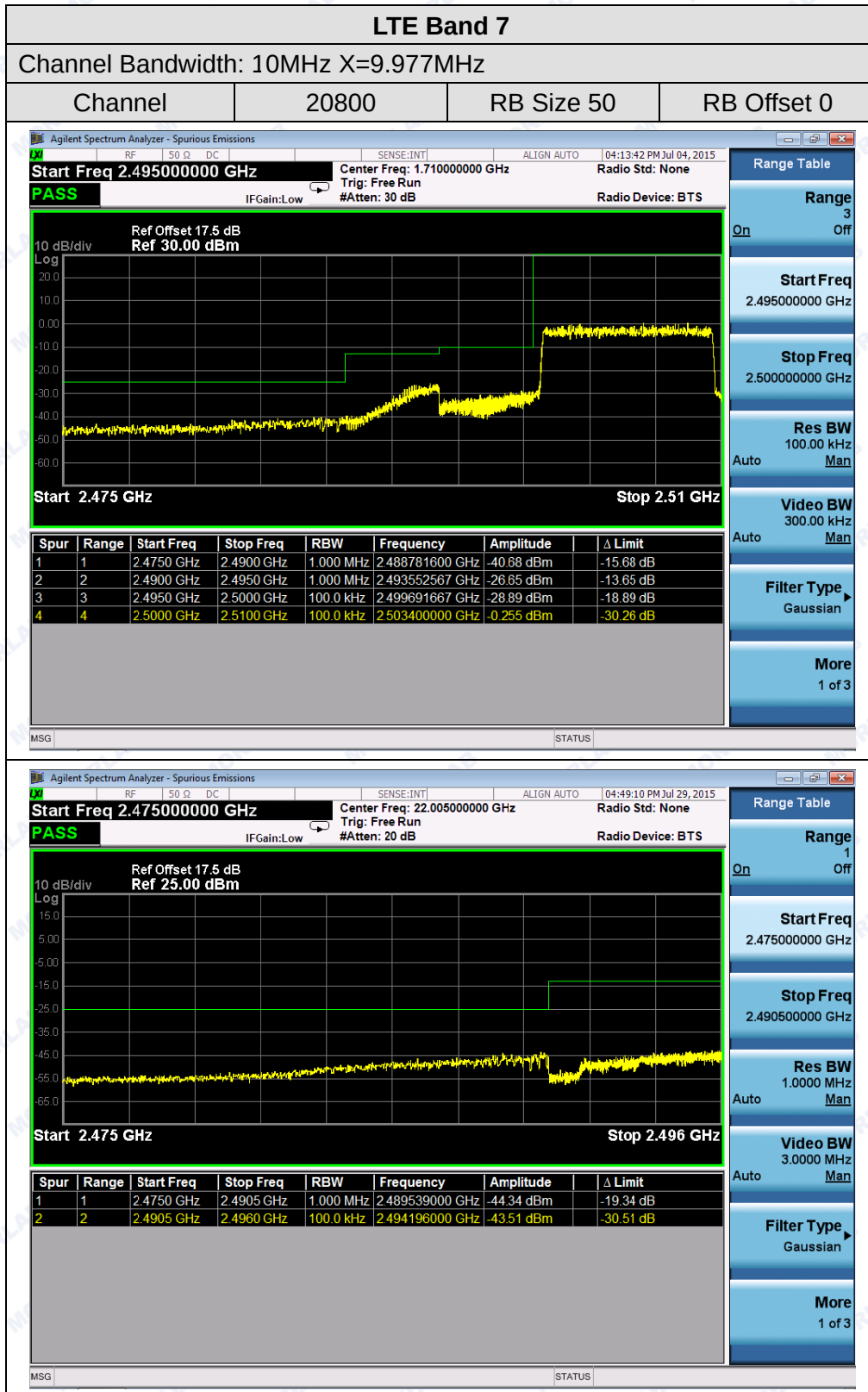


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REPORT No.: SZ15060145W02





REPORT No.: SZ15060145W02

LTE Band 7

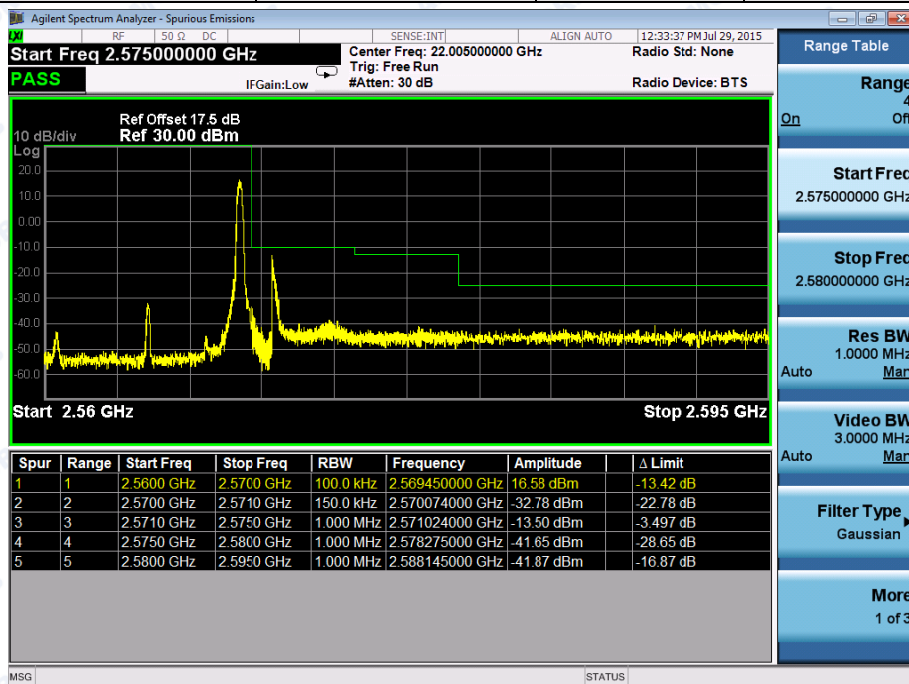
Channel Bandwidth: 10MHz X=10.01 MHz

Channel

21400

RB Size 1

RB Offset 49

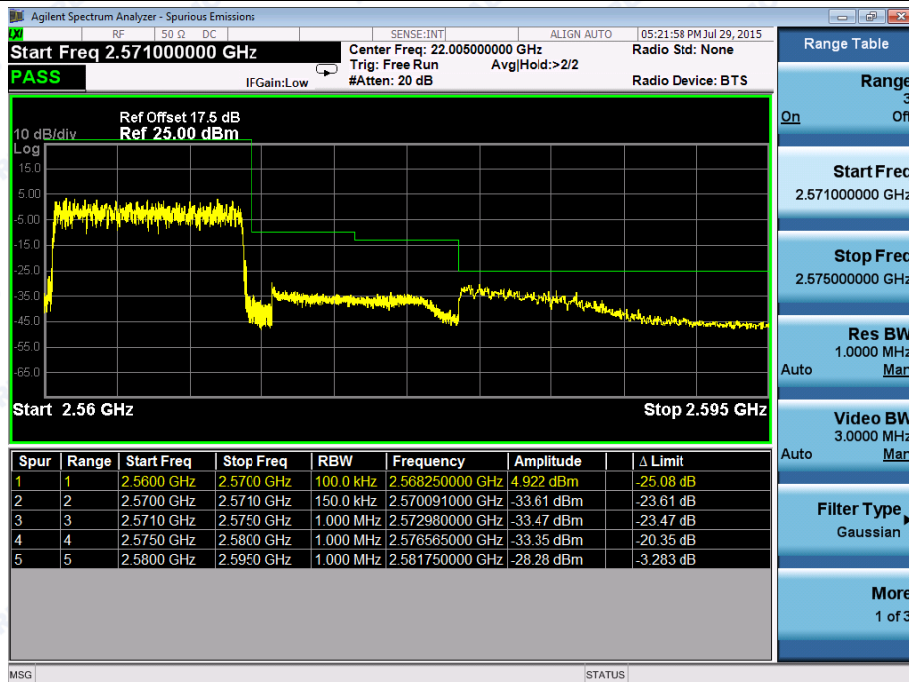


Channel

21400

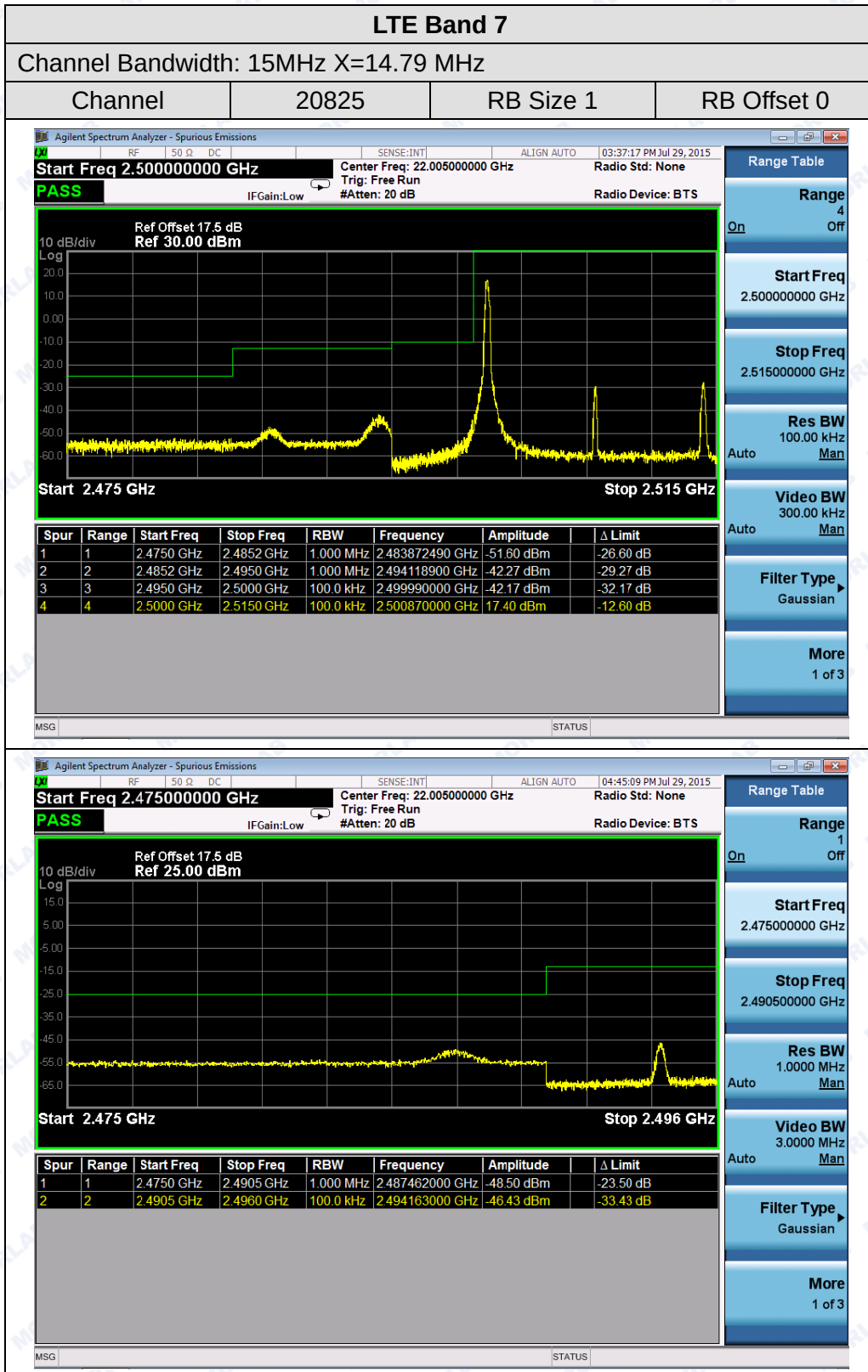
RB Size 50

RB Offset 0



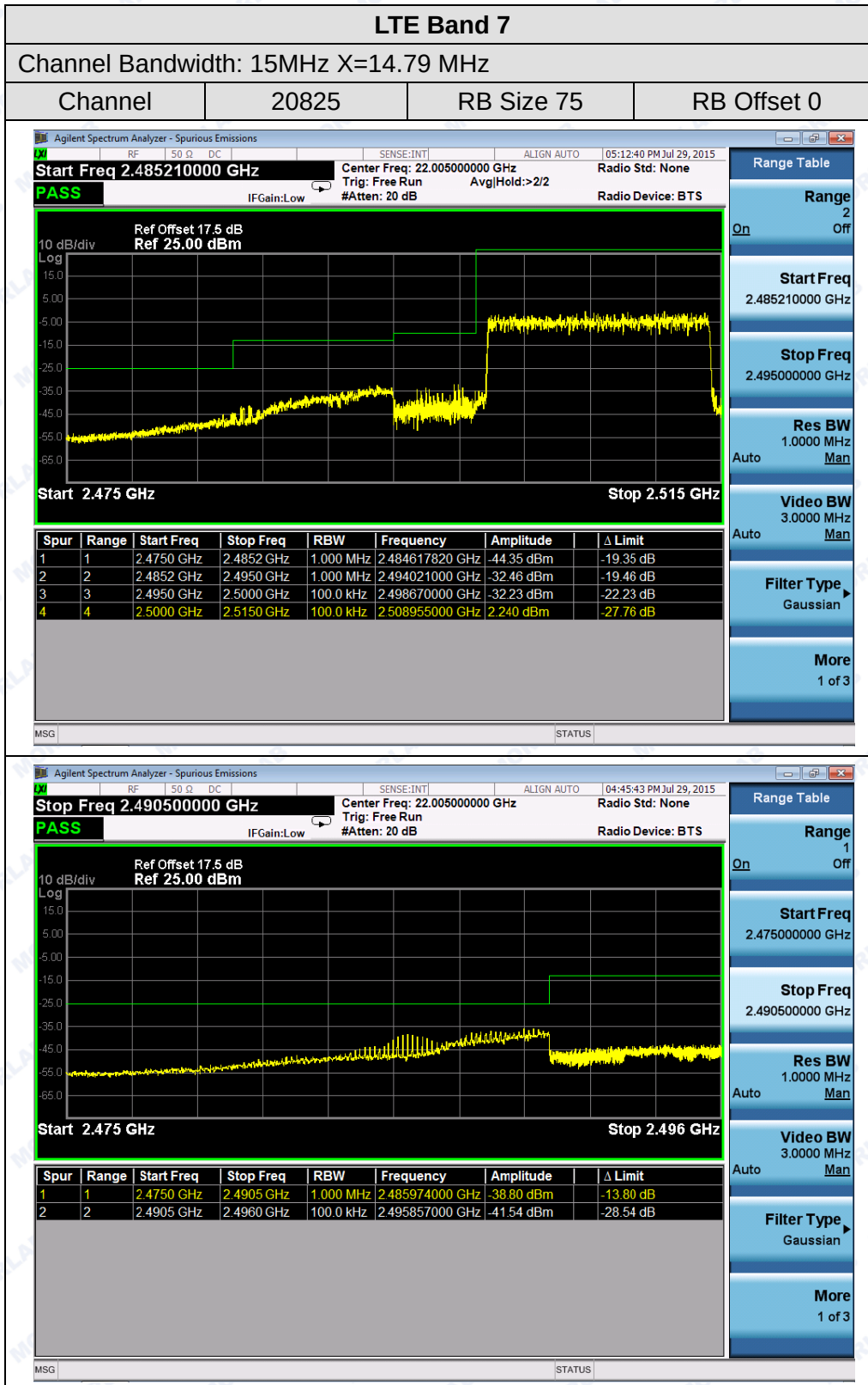


REPORT No.: SZ15060145W02



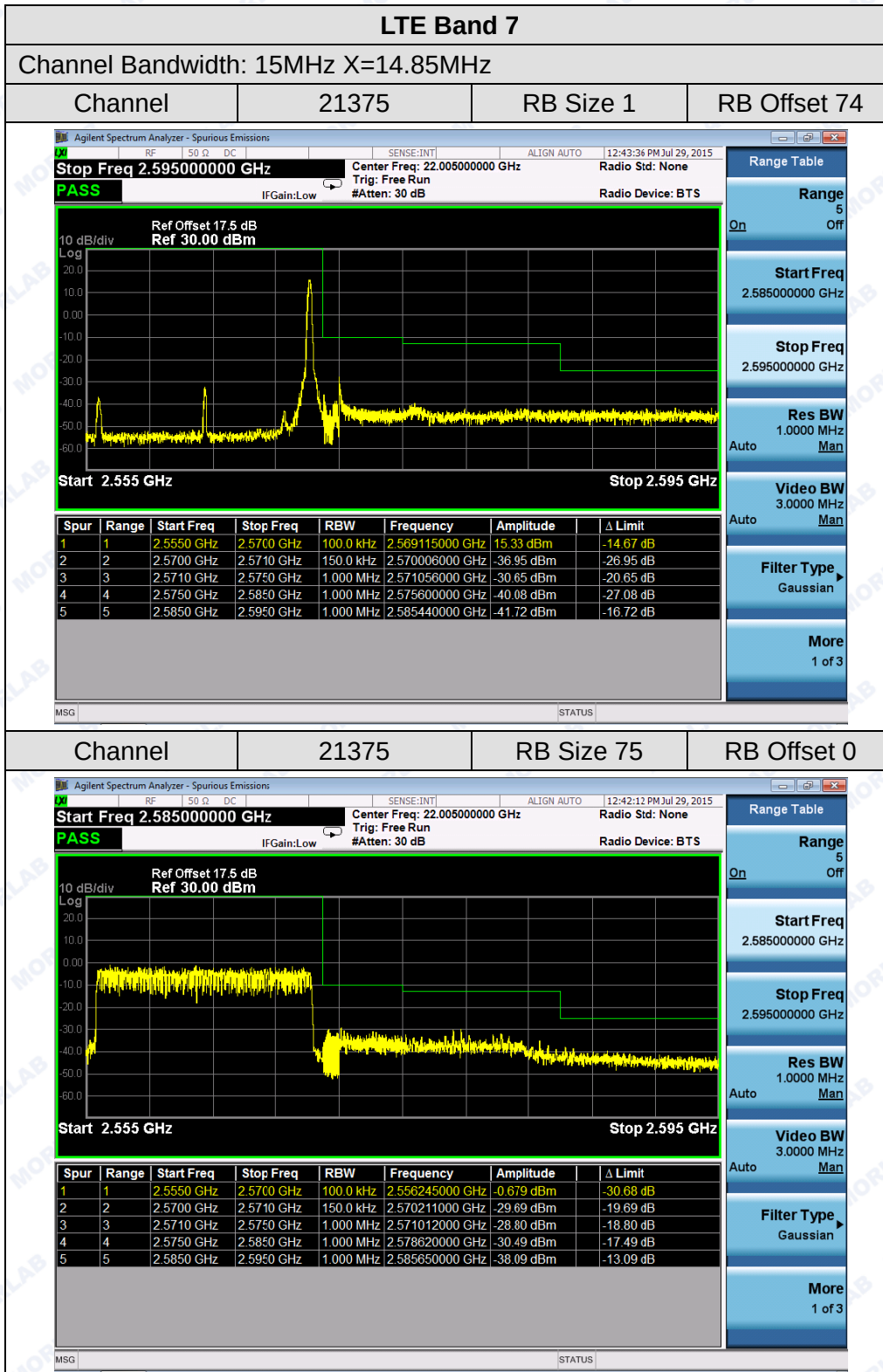


REPORT No.: SZ15060145W02



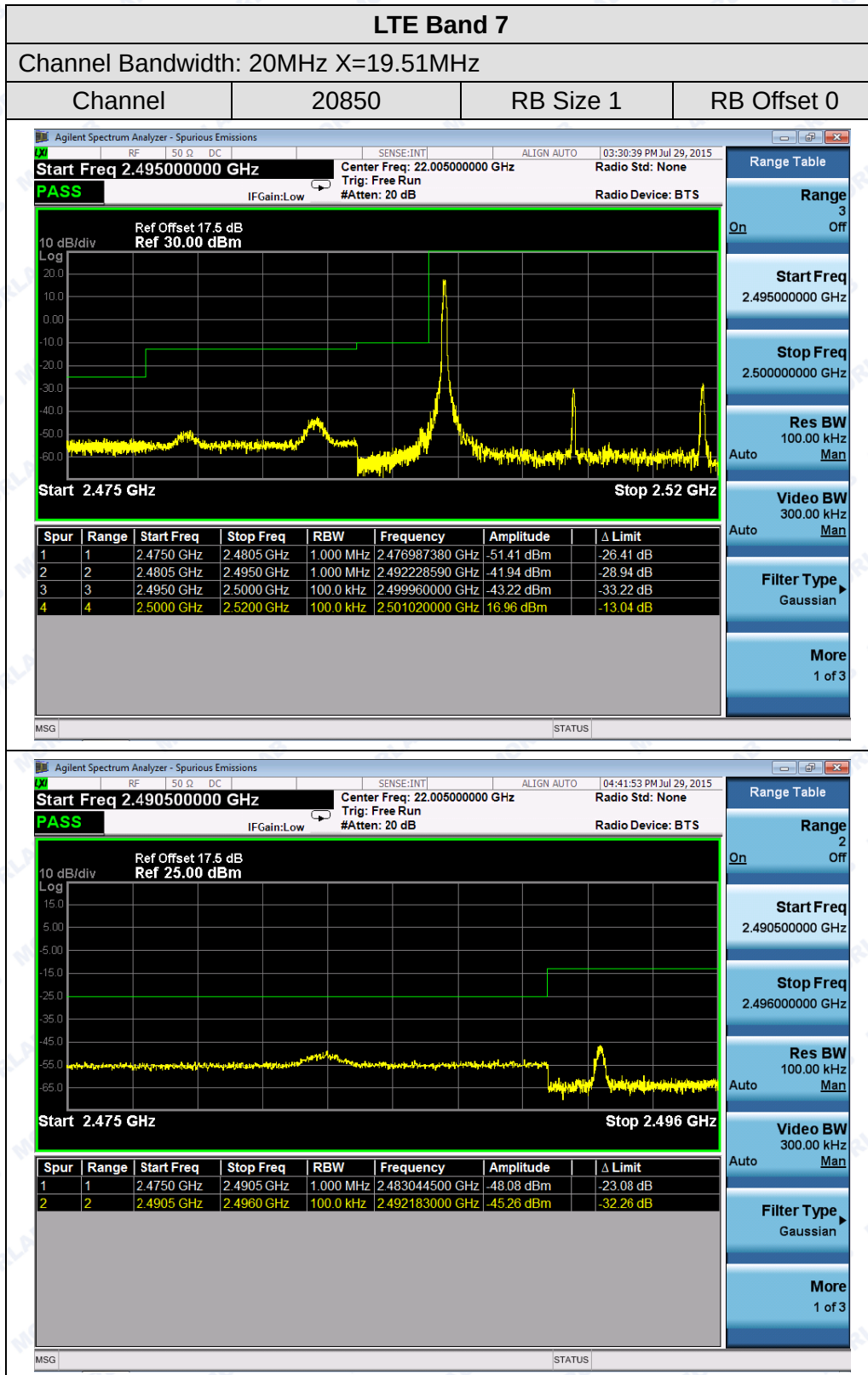


REPORT No.: SZ15060145W02



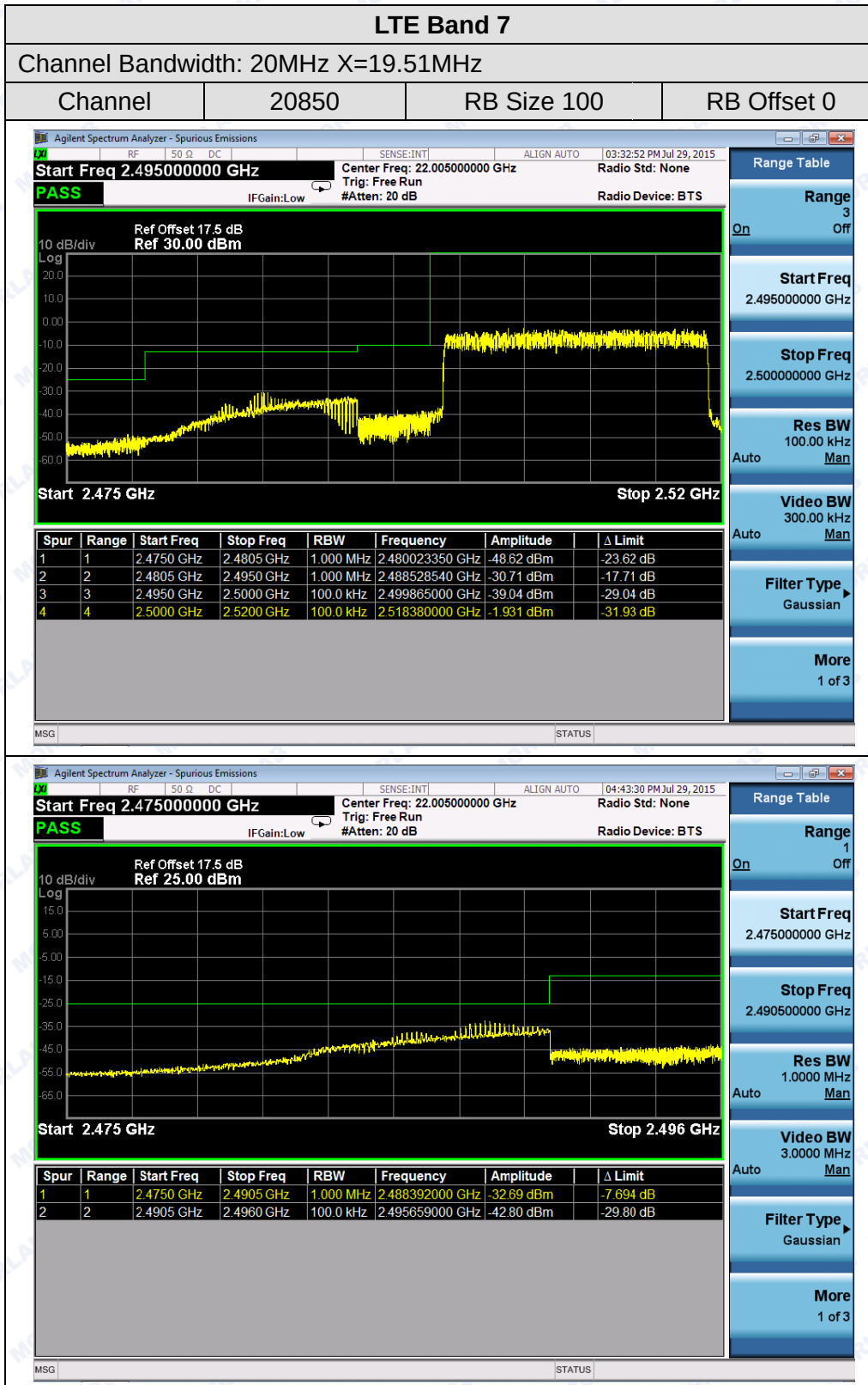


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REPORT No.: SZ15060145W02



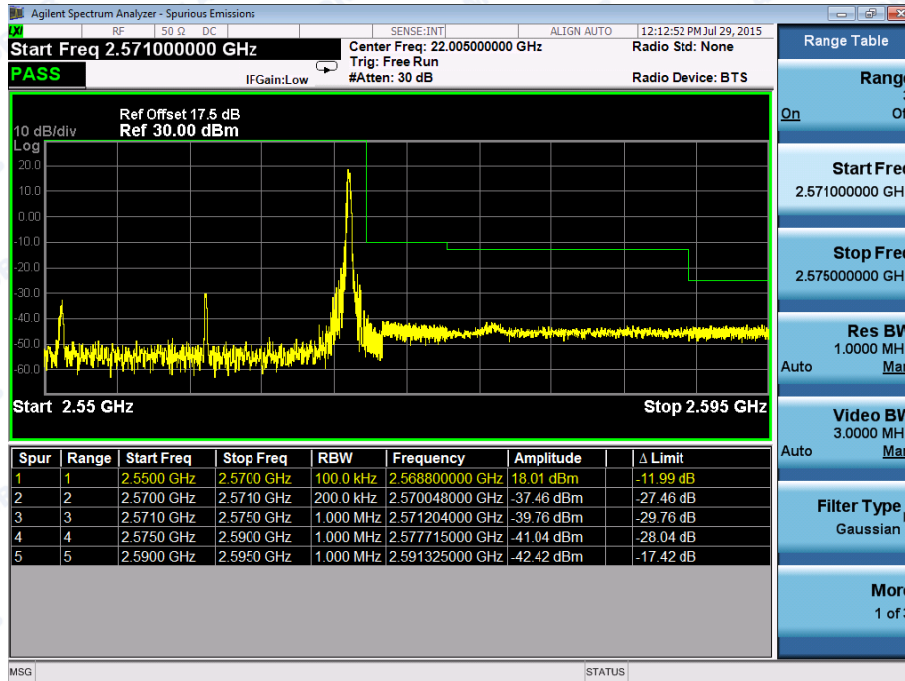


REPORT No.: SZ15060145W02

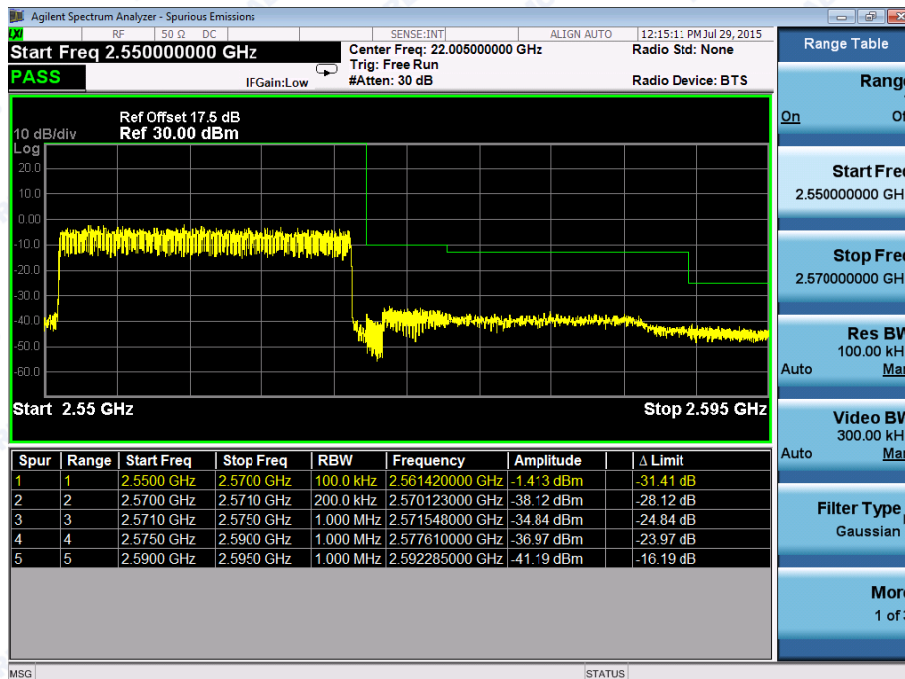
LTE Band 7

Channel Bandwidth: 20MHz X=19.77MHz

Channel	21350	RB Size 1	RB Offset 99
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Channel	21350	RB Size 100	RB Offset 0
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LTE Band 17

Channel Bandwidth: 5MHz

Channel	23755	RB Size 1	RB Offset 0	Channel	23755	RB Size 25	RB Offset 0
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Channel Bandwidth: 5MHz

Channel	23825	RB Size 1	RB Offset 24	Channel	23825	RB Size 25	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------





REPORT No.: SZ15060145W02

LTE Band 17

Channel Bandwidth: 10MHz

Channel	23780	RB Size 1	RB Offset 0	Channel	23780	RB Size 50	RB Offset 0
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Channel Bandwidth: 10MHz

Channel	23800	RB Size 1	RB Offset 49	Channel	23800	RB Size 50	RB Offset 0
---------	-------	-----------	--------------	---------	-------	------------	-------------

