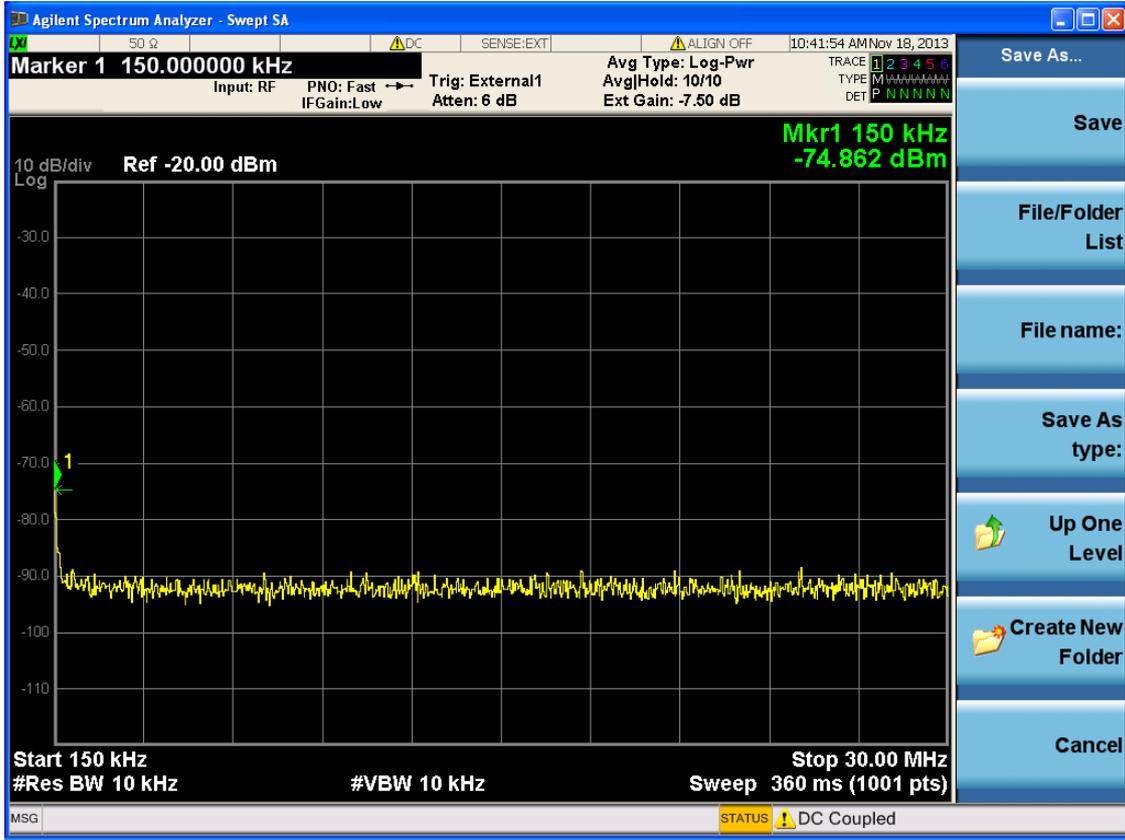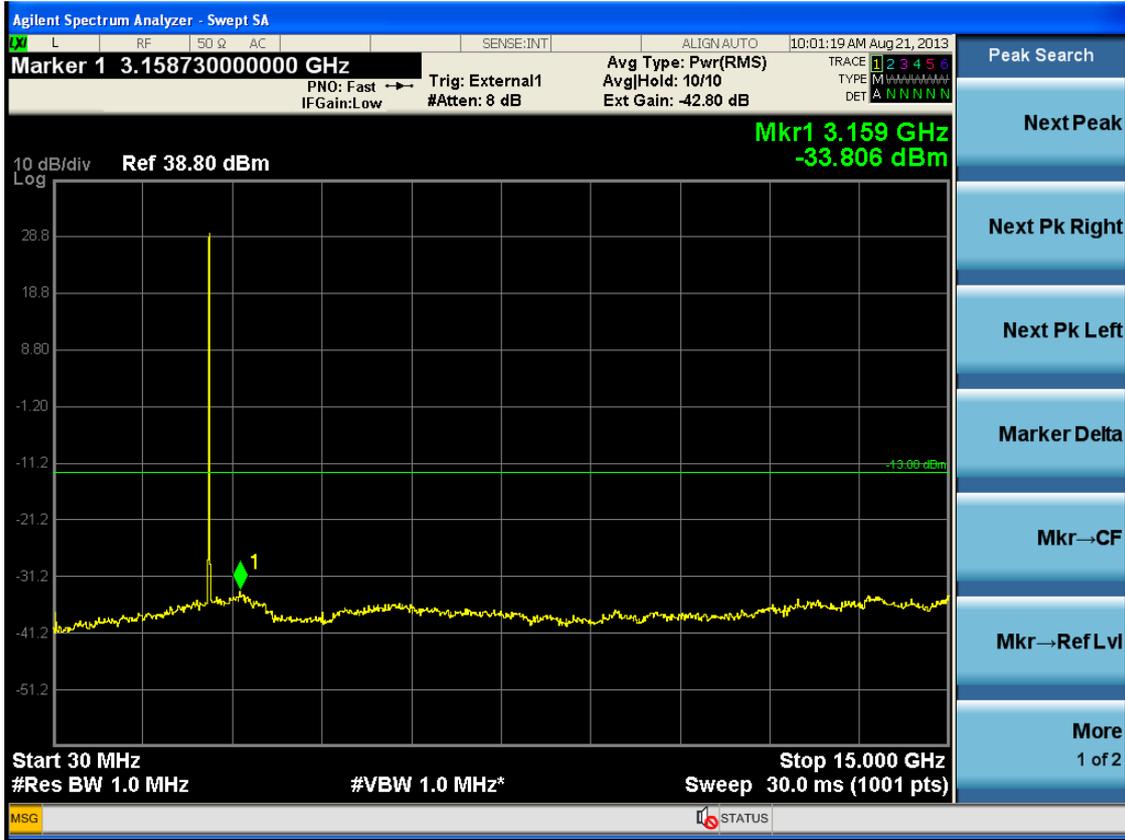20M-2643.5MHz-64QAM-Band Edge-Port2
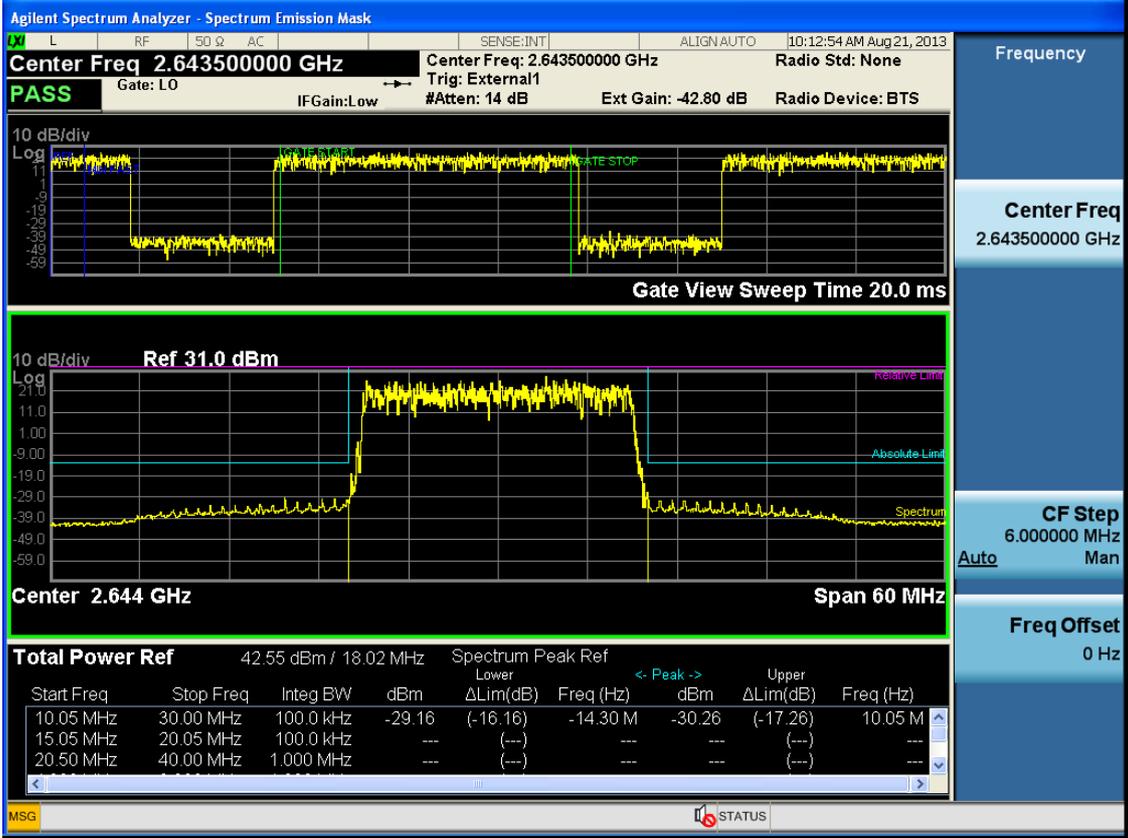
20M-2643.5MHz-QPSK-9k-Port3

20M-2643.5MHz-QPSK-150k-Port3
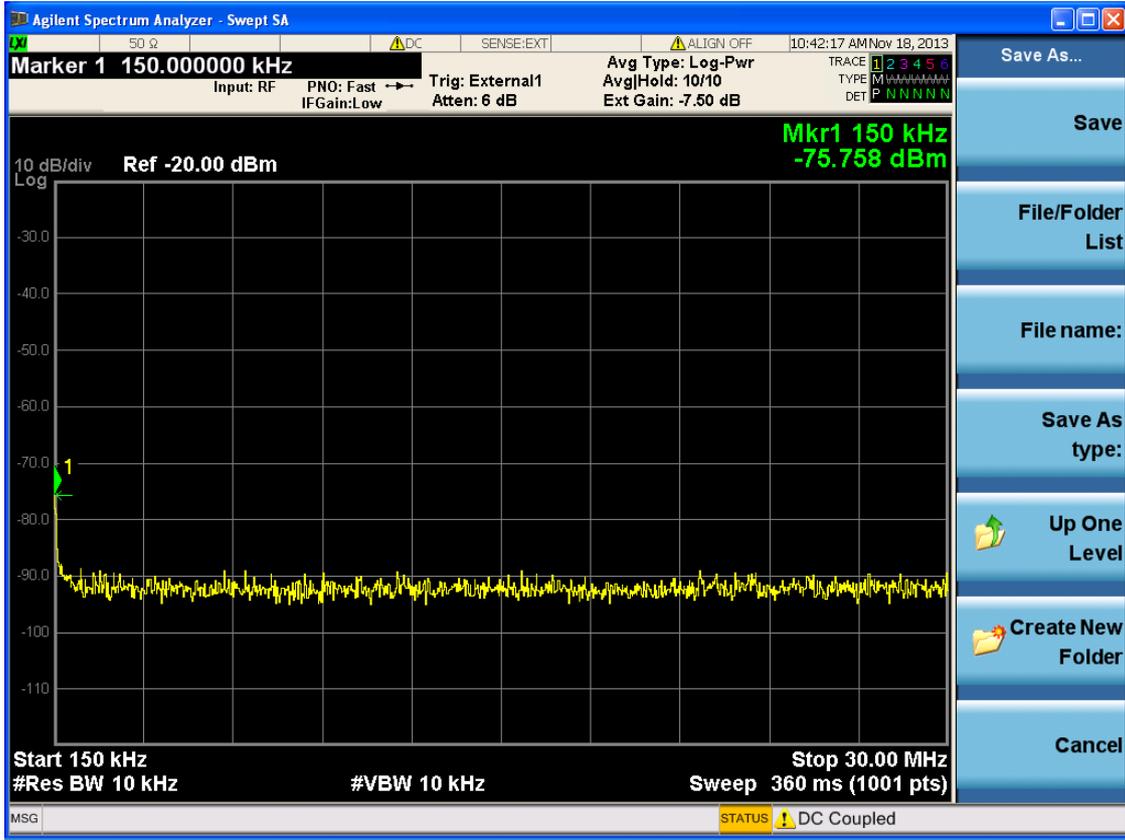
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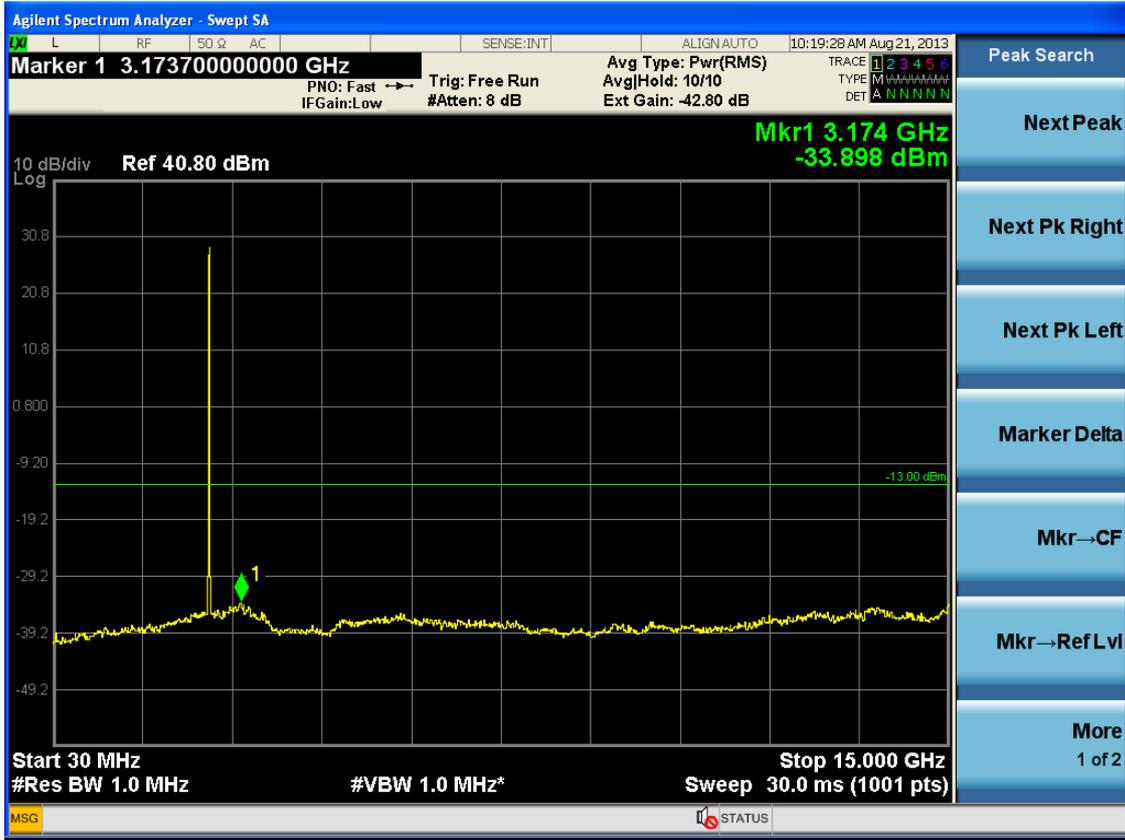
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20M-2643.5MHz-QPSK-Band Edge-Port3
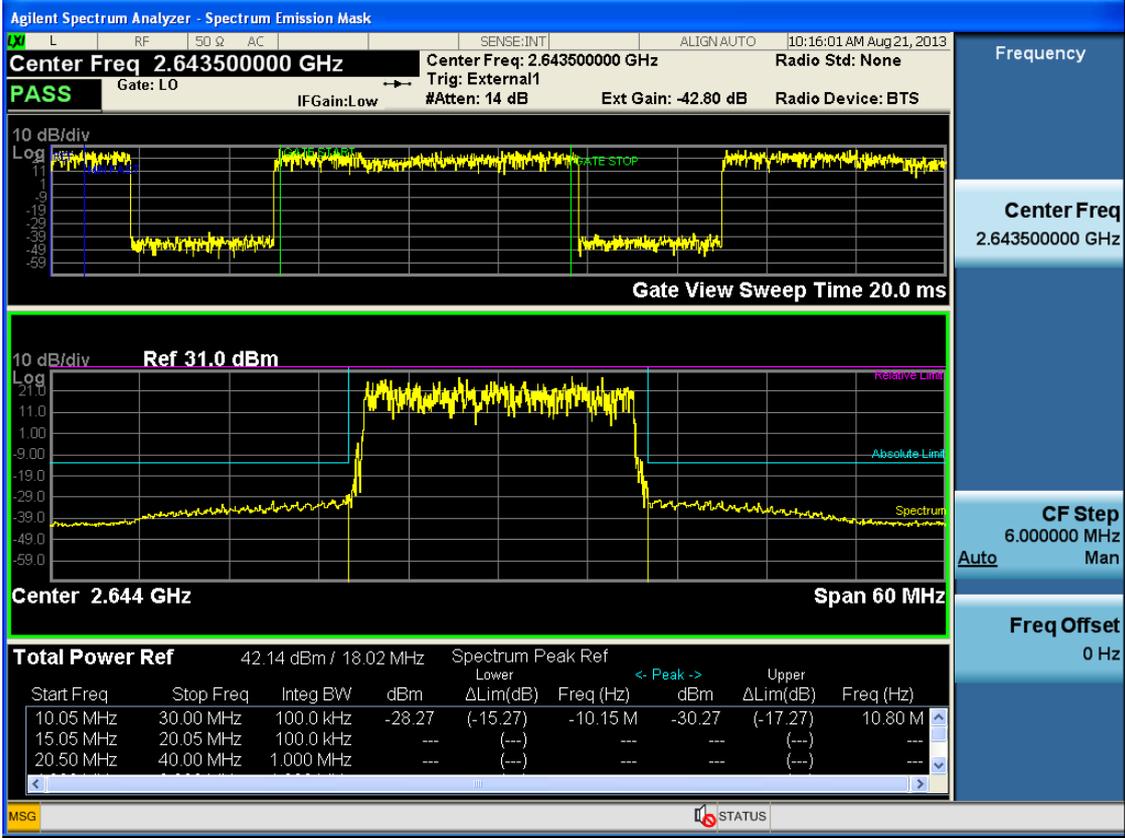
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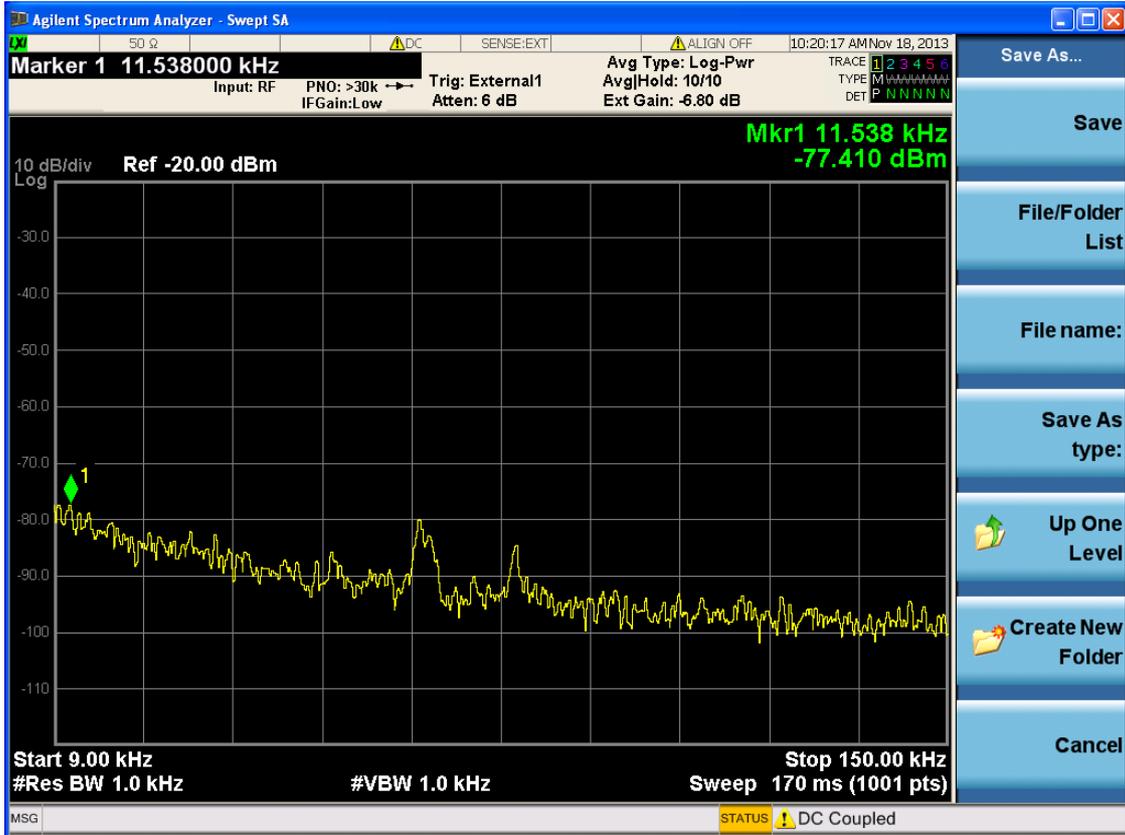
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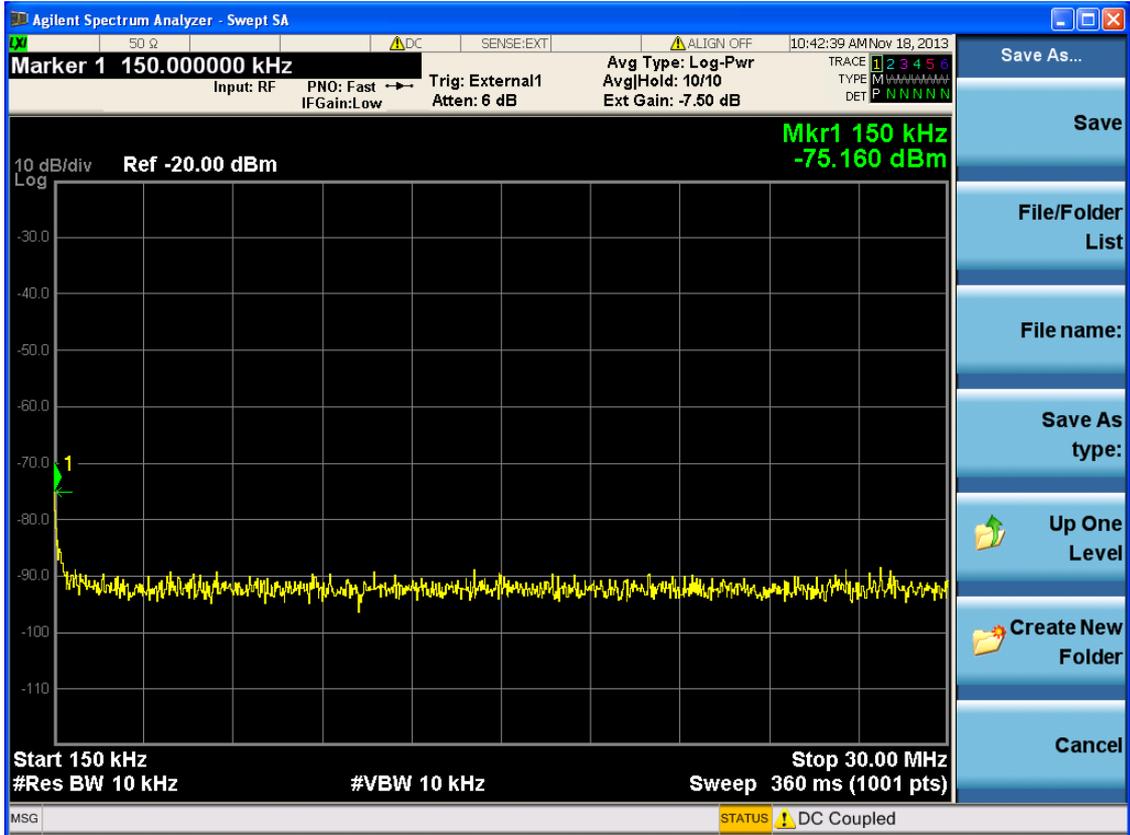
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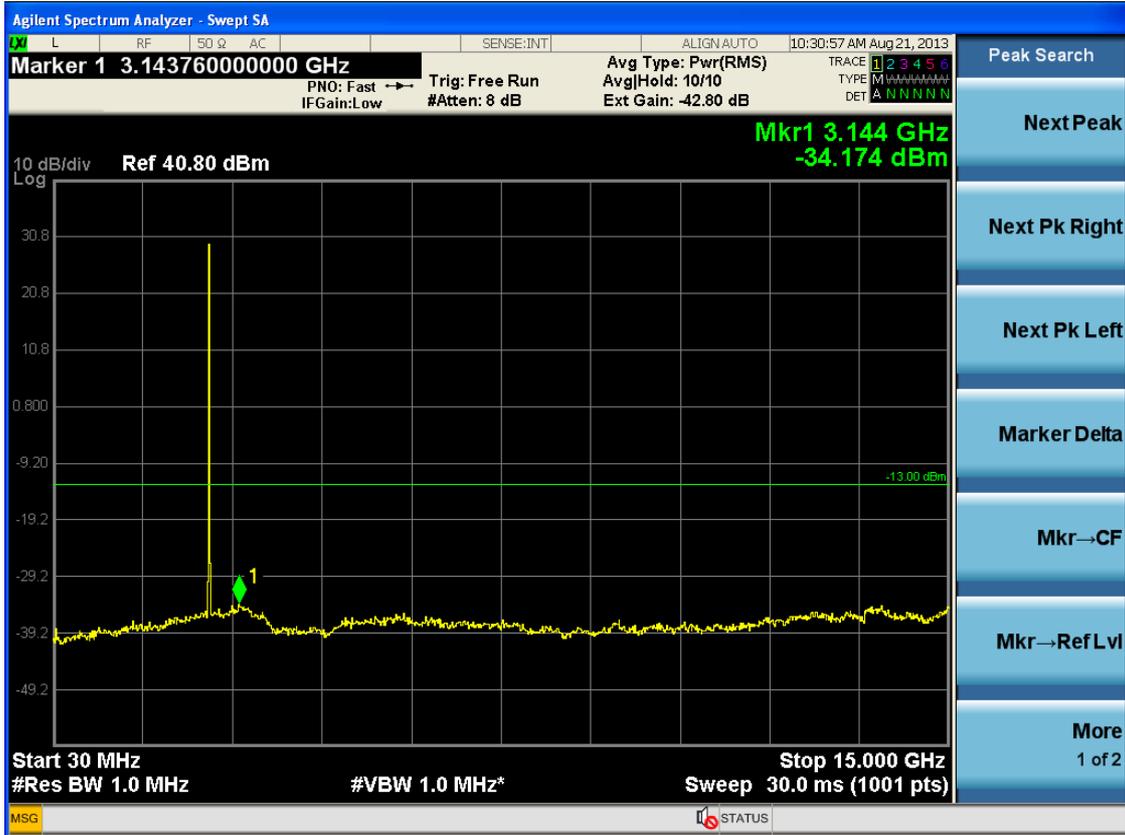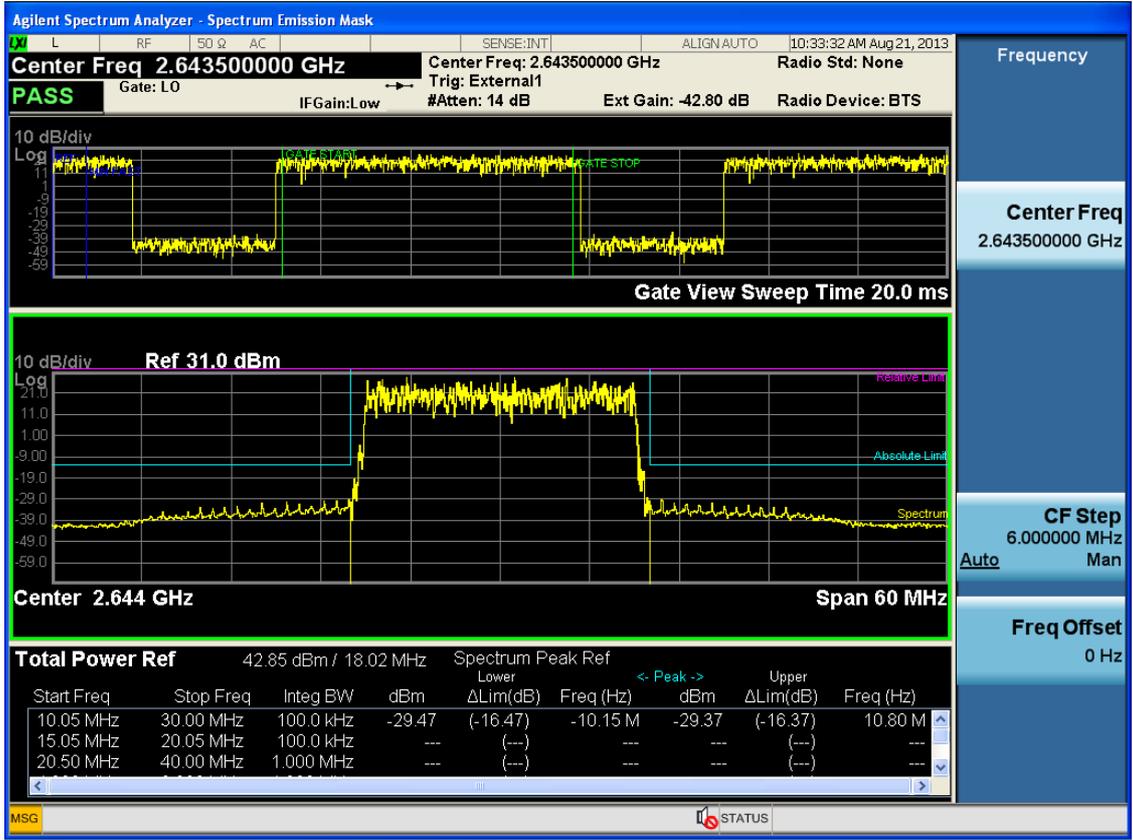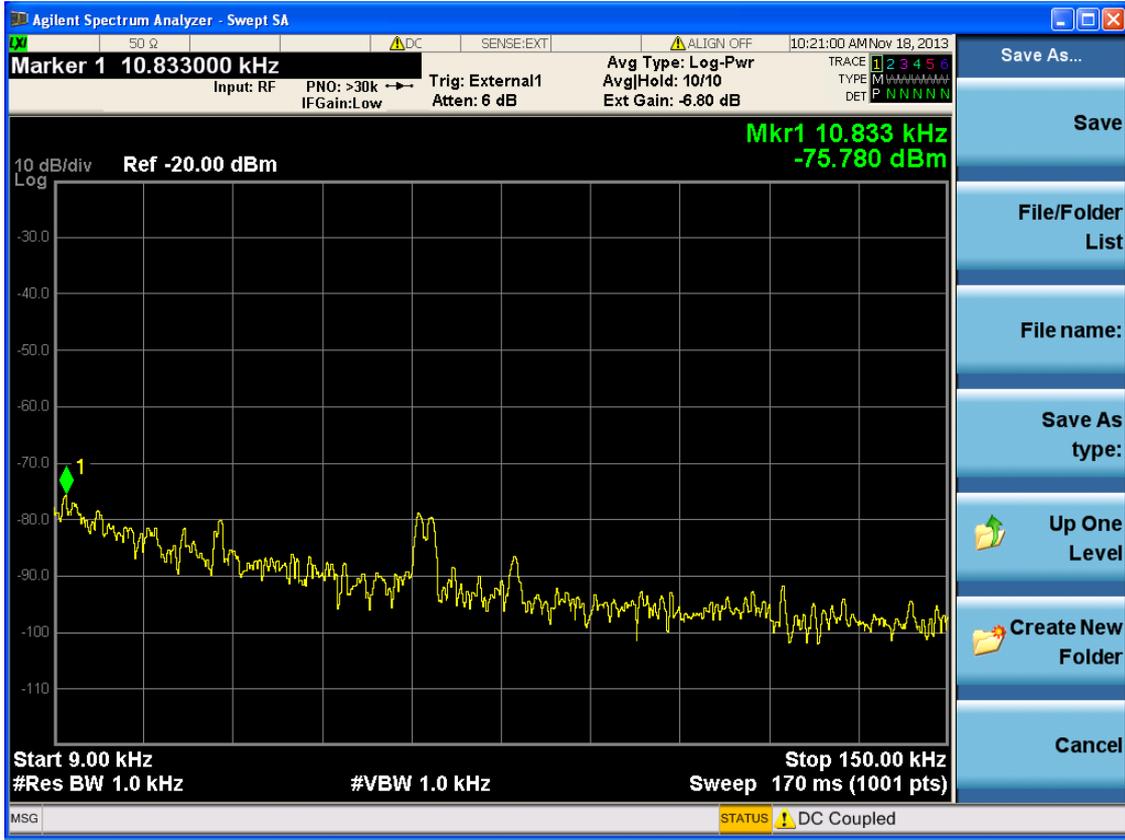
20M-2643.5MHz-16QAM-15G-Port3

20M-2643.5MHz-16QAM-Band Edge-Port3

20M-2643.5MHz-64QAM-9k-Port3

20M-2643.5MHz-64QAM-150k-Port3

20M-2643.5MHz-64QAM-30M-Port3

**Intertek**



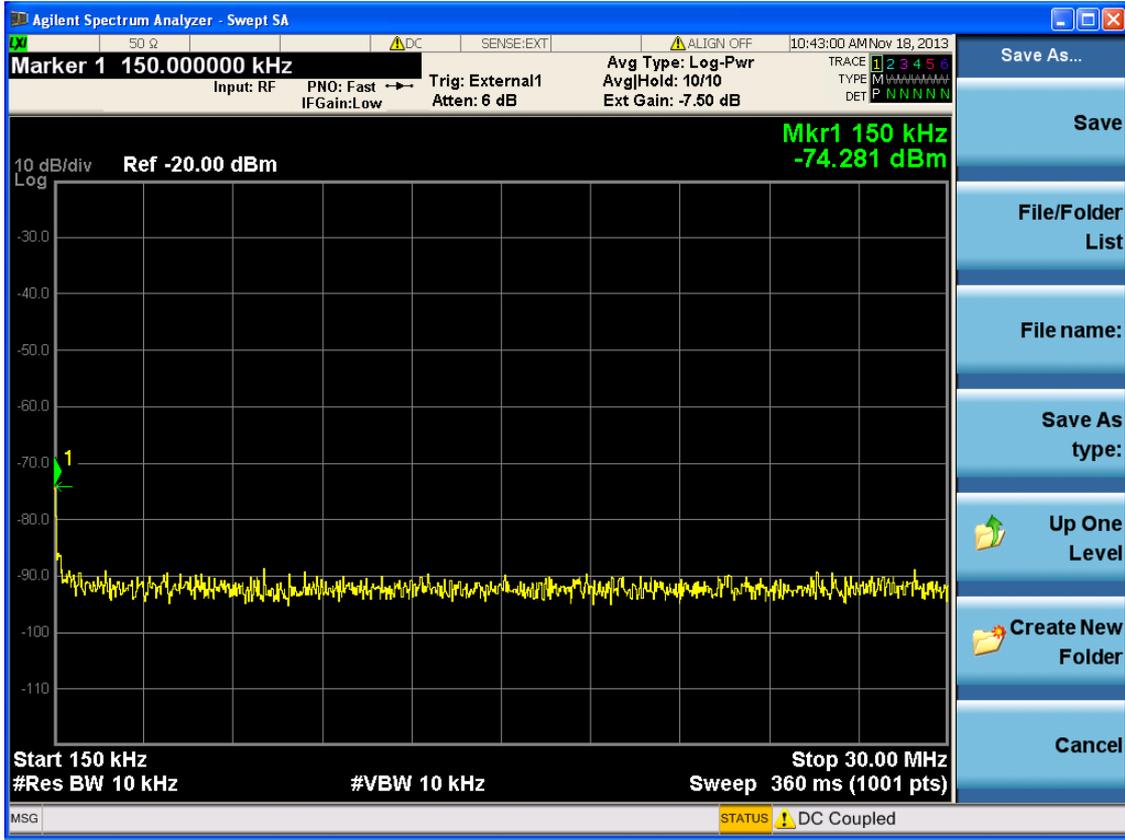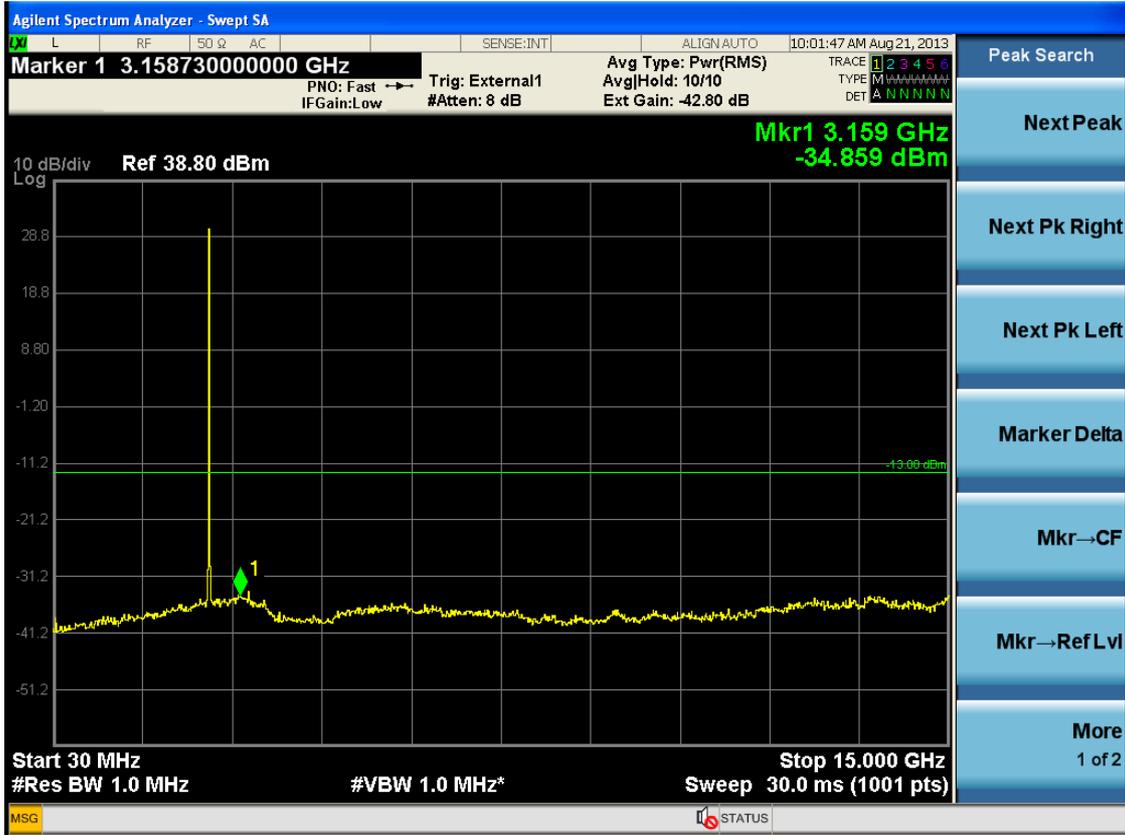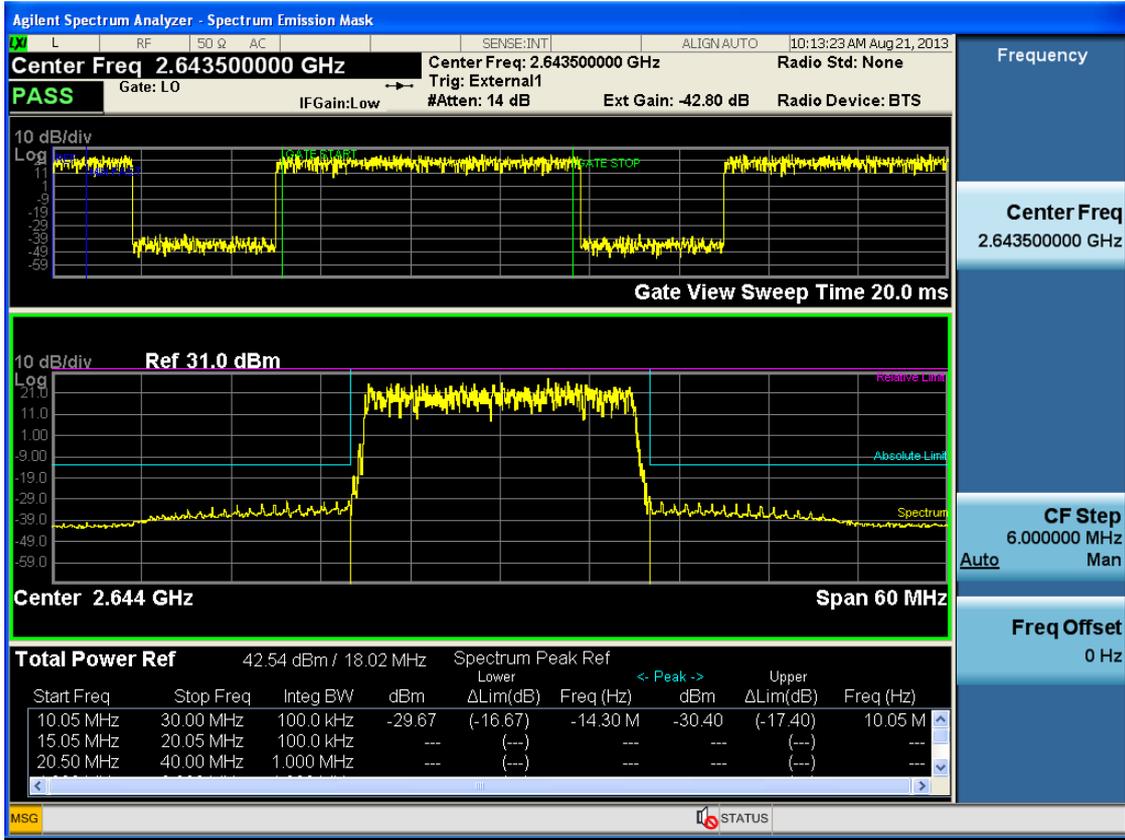20M-2643.5MHz-64QAM-15G-Port3

**Agilent Spectrum Analyzer - Spectrum Emission Mask**

| | L | RF | 50 Ω | AC | | | SENSE:INT | | ALIGN AUTO | 10:33:32 AM Aug 21, 2013 |

**Center Freq  2.643500000 GHz**
Center Freq: 2.643500000 GHz          Radio Std: None
Gate: LO          Trig: External1
**PASS**          #Atten: 14 dB          Ext Gain: -42.80 dB          Radio Device: BTS
IFGain:Low

10 dB/div
Log
11
1
-9
-19
-29
-39
-49
-59

GATE START          GATE STOP

**Gate View Sweep Time 20.0 ms**

10 dB/div          **Ref 31.0 dBm**
Log
21.0
11.0
1.00
-9.00
-19.0
-29.0
-39.0
-49.0
-59.0

Relative Limit

Absolute Limit

Spectrum

**Center  2.644 GHz**          **Span 60 MHz**

**Frequency**

**Center Freq**
2.643500000 GHz

**CF Step**
6.000000 MHz
Auto          Man

**Freq Offset**
0 Hz

**Total Power Ref**          42.85 dBm / 18.02 MHz          Spectrum Peak Ref

| | | | | Lower | | <- Peak -> | Upper | |
|---|---|---|---|---|---|---|---|---|
| Start Freq | Stop Freq | Integ BW | dBm | ΔLim(dB) | Freq (Hz) | dBm | ΔLim(dB) | Freq (Hz) |
| 10.05 MHz | 30.00 MHz | 100.0 kHz | -29.47 | (-16.47) | -10.15 M | -29.37 | (-16.37) | 10.80 M |
| 15.05 MHz | 20.05 MHz | 100.0 kHz | --- | (---) | --- | --- | (---) | --- |
| 20.50 MHz | 40.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | --- |

MSG          STATUS

20M-2643.5MHz-64QAM-Band Edge-Port3

**Intertek**

Agilent Spectrum Analyzer - Swept SA

| LXI | 50 Ω | | ⚠DC | SENSE:EXT | ⚠ ALIGN OFF | 10:21:00 AM Nov 18, 2013 |

Marker 1  10.833000 kHz

Input: RF     PNO: >30k  ←→      Trig: External1     Avg Type: Log-Pwr     TRACE 1 2 3 4 5 6
IFGain:Low                        Atten: 6 dB         Avg|Hold: 10/10       TYPE M wwwwwwwww
                                                      Ext Gain: -6.80 dB    DET P N N N N N

Mkr1 10.833 kHz
-75.780 dBm

10 dB/div    Ref -20.00 dBm
Log

-30.0

-40.0

-50.0

-60.0

-70.0

-80.0

-90.0

-100

-110

Start 9.00 kHz                                      Stop 150.00 kHz
#Res BW 1.0 kHz              #VBW 1.0 kHz            Sweep  170 ms (1001 pts)

MSG                                     STATUS ⚠ DC Coupled

Save As...

Save

File/Folder List

File name:

Save As type:

Up One Level

Create New Folder

Cancel

20M-2643.5MHz-QPSK-9k-Port4

20M-2643.5MHz-QPSK-150k-Port4

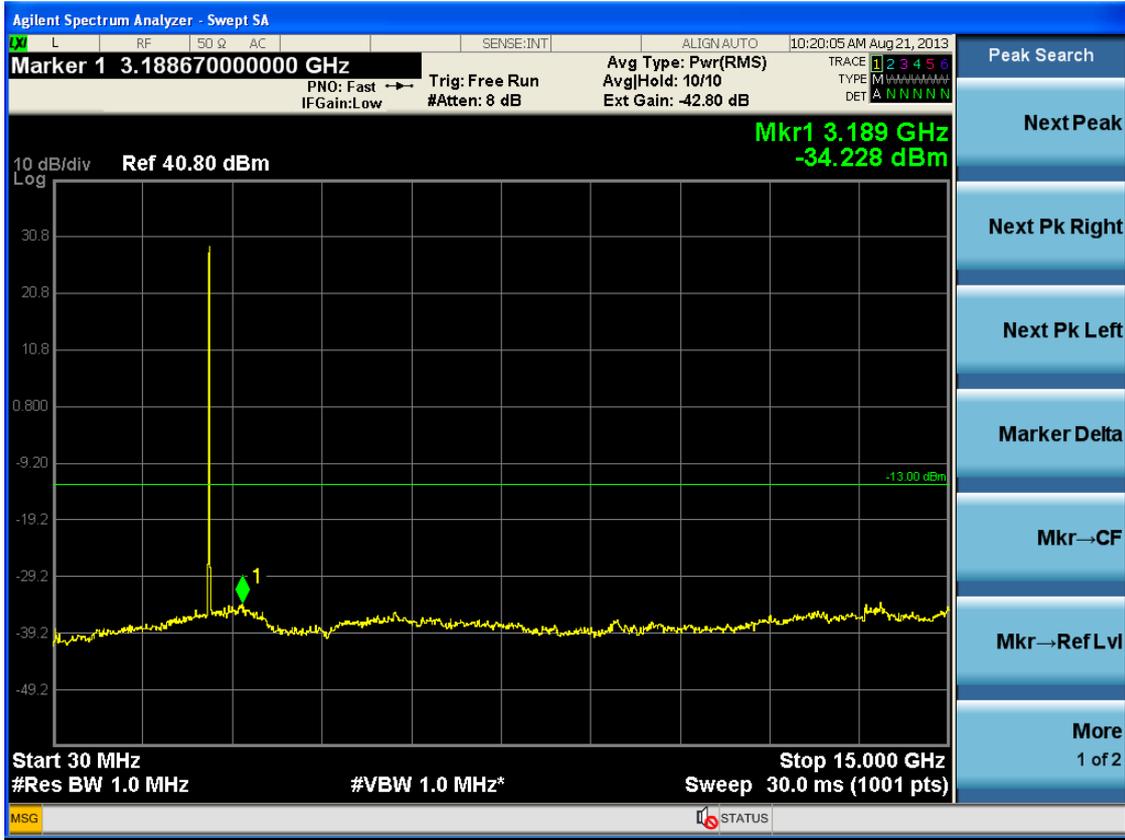20M-2643.5MHz-QPSK-30M-Port4

20M-2643.5MHz-QPSK-15G-Port4

20M-2643.5MHz-QPSK-Band Edge-Port4

20M-2643.5MHz-16QAM-9k-Port4
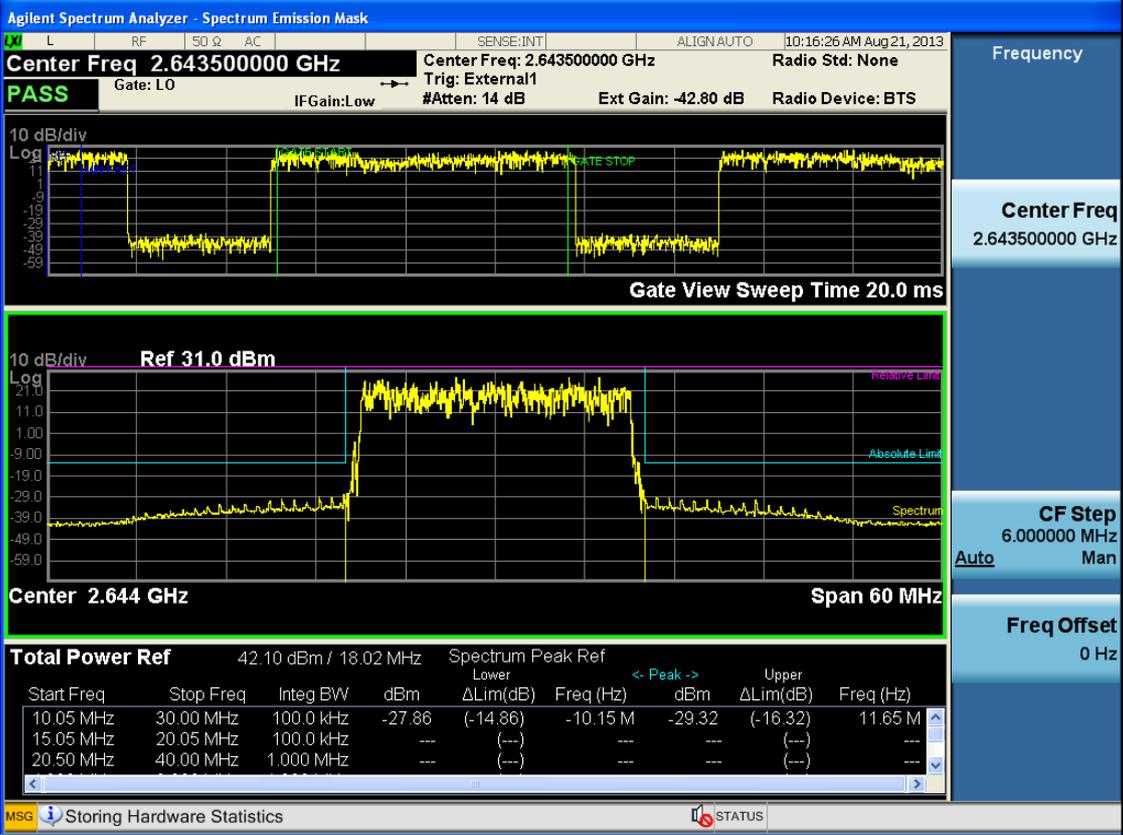
20M-2643.5MHz-16QAM-150k-Port4

20M-2643.5MHz-16QAM-30M-Port4
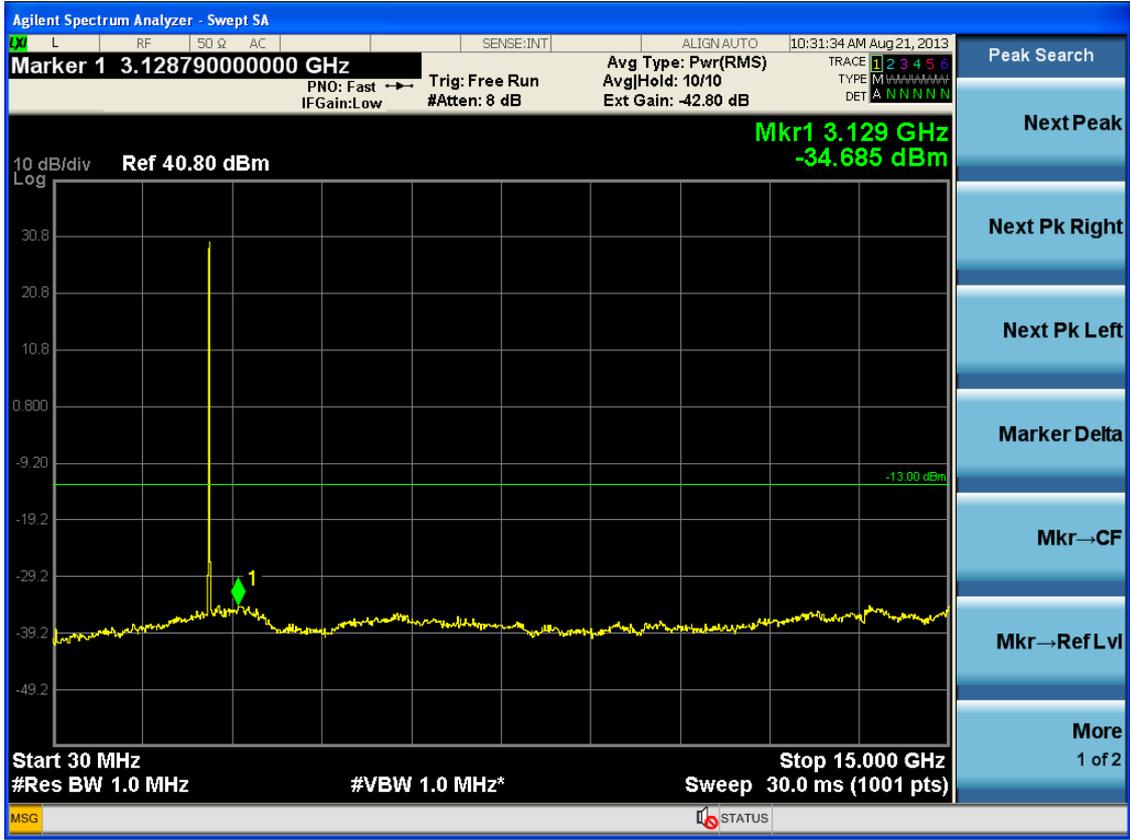
20M-2643.5MHz-16QAM-15G-Port4

20M-2643.5MHz-16QAM-Band Edge-Port4

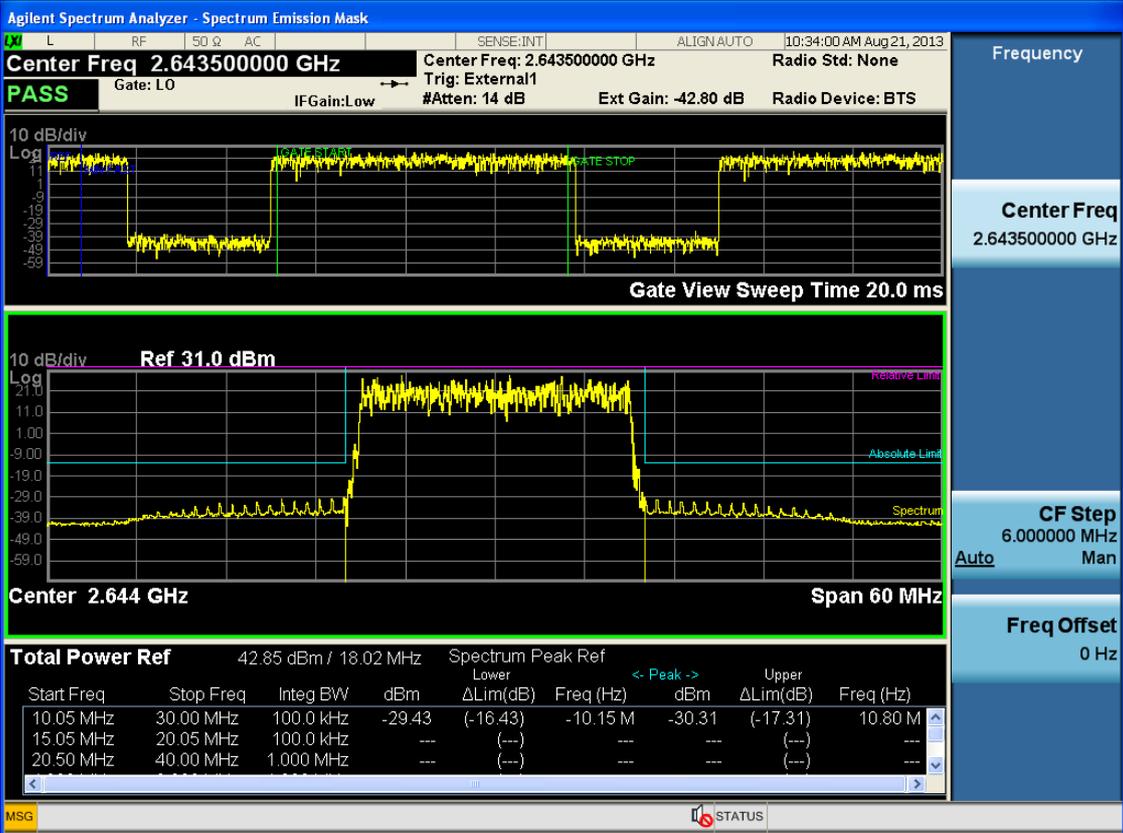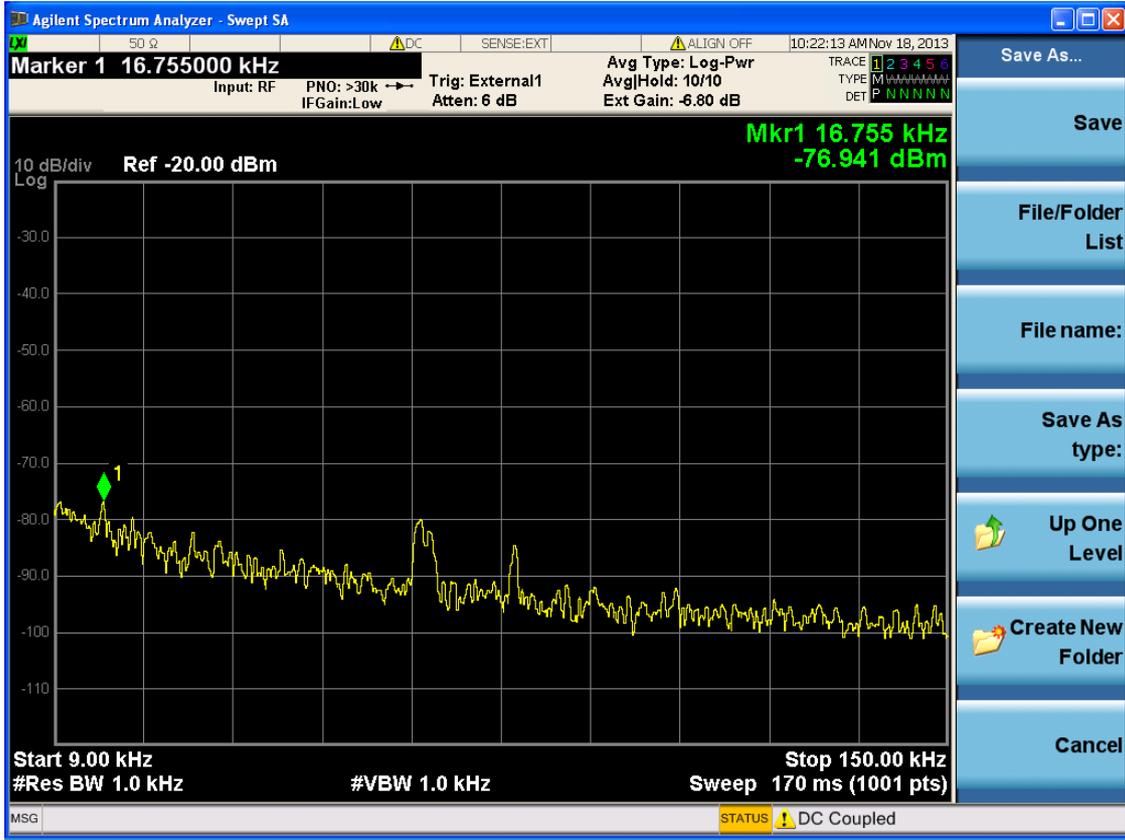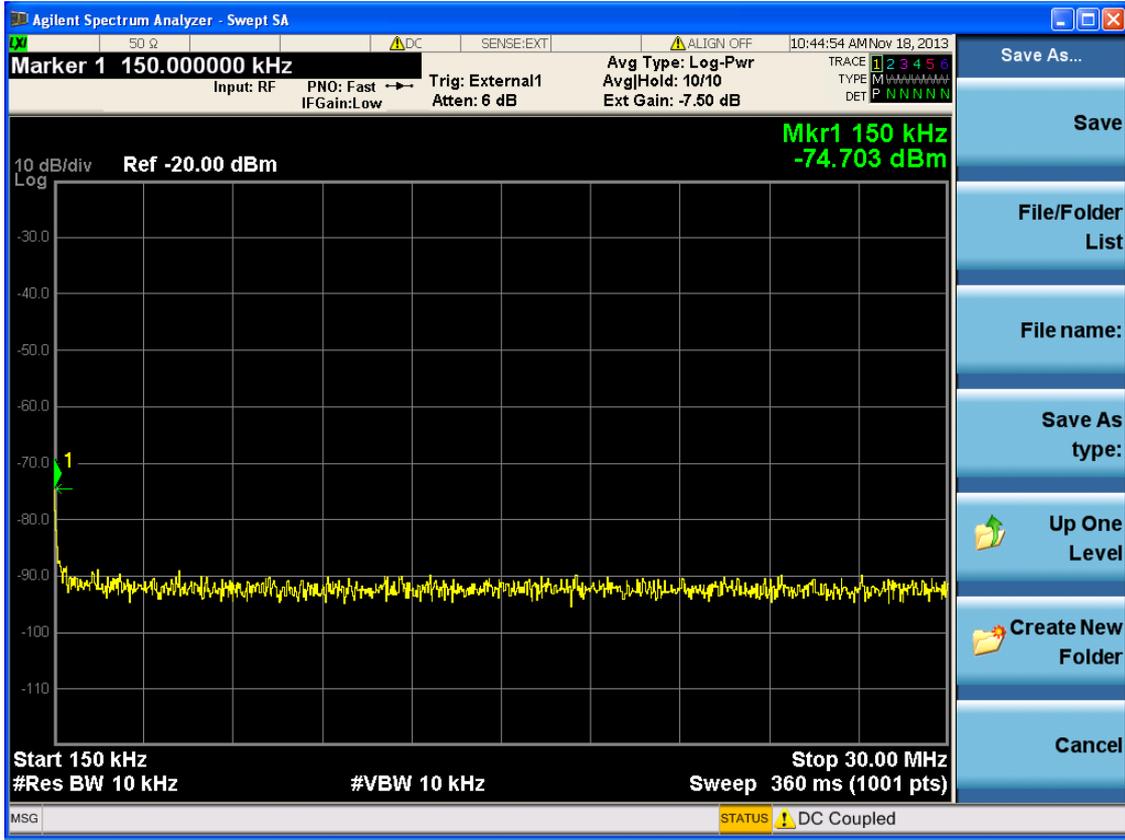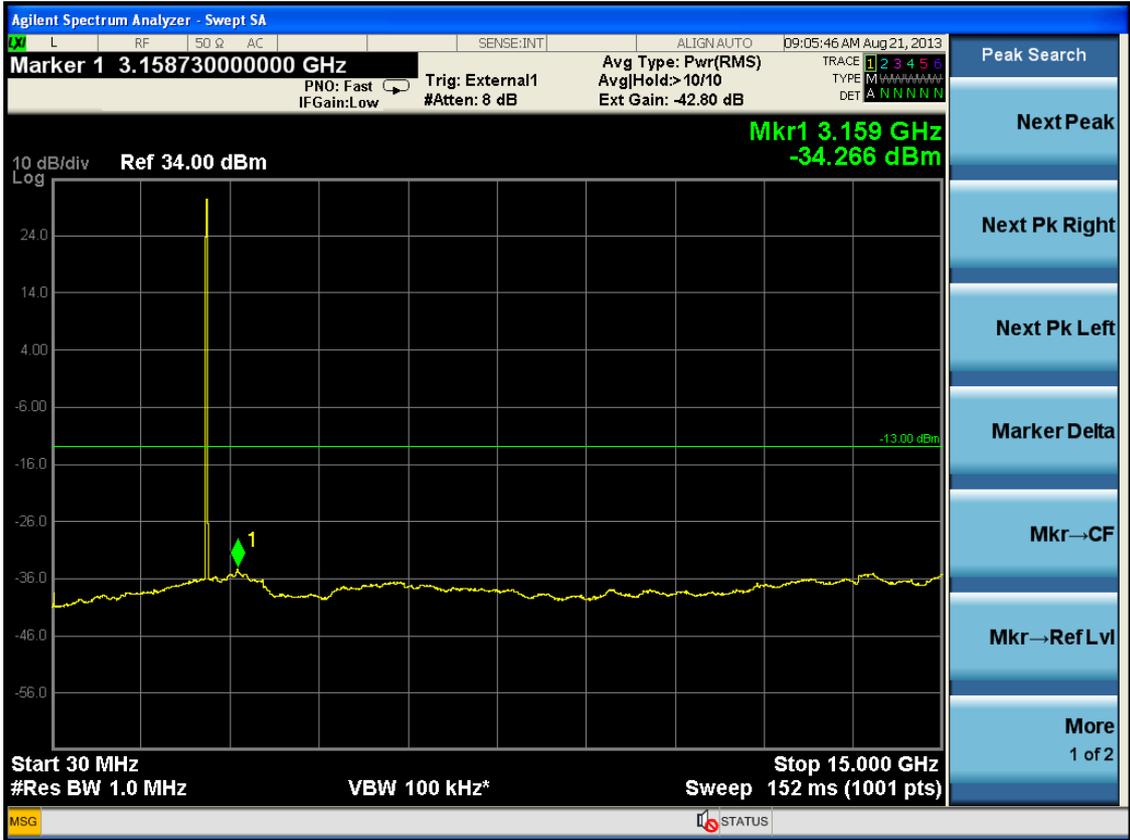20M-2643.5MHz-64QAM-9k-Port4

20M-2643.5MHz-64QAM-150k-Port4

20M-2643.5MHz-64QAM-30M-Port4

20M-2643.5MHz-64QAM-15G-Port4

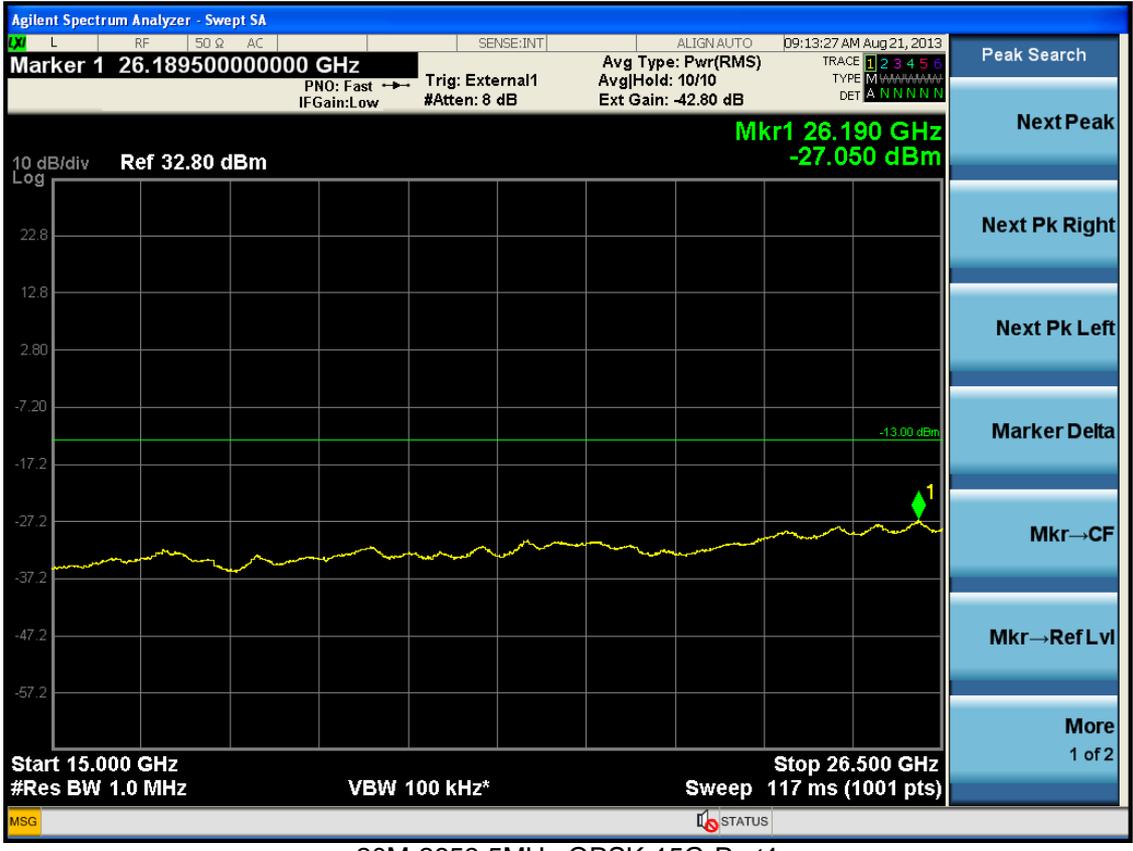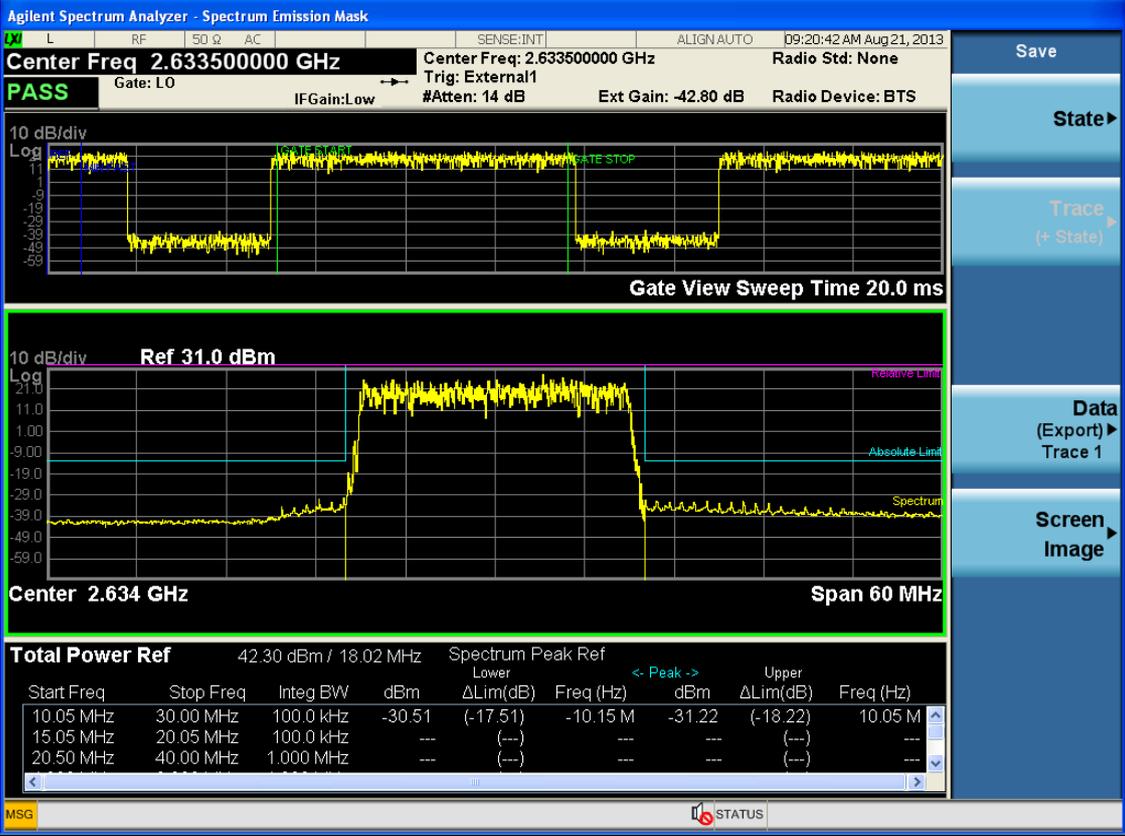20M-2643.5MHz-64QAM-Band Edge-Port4

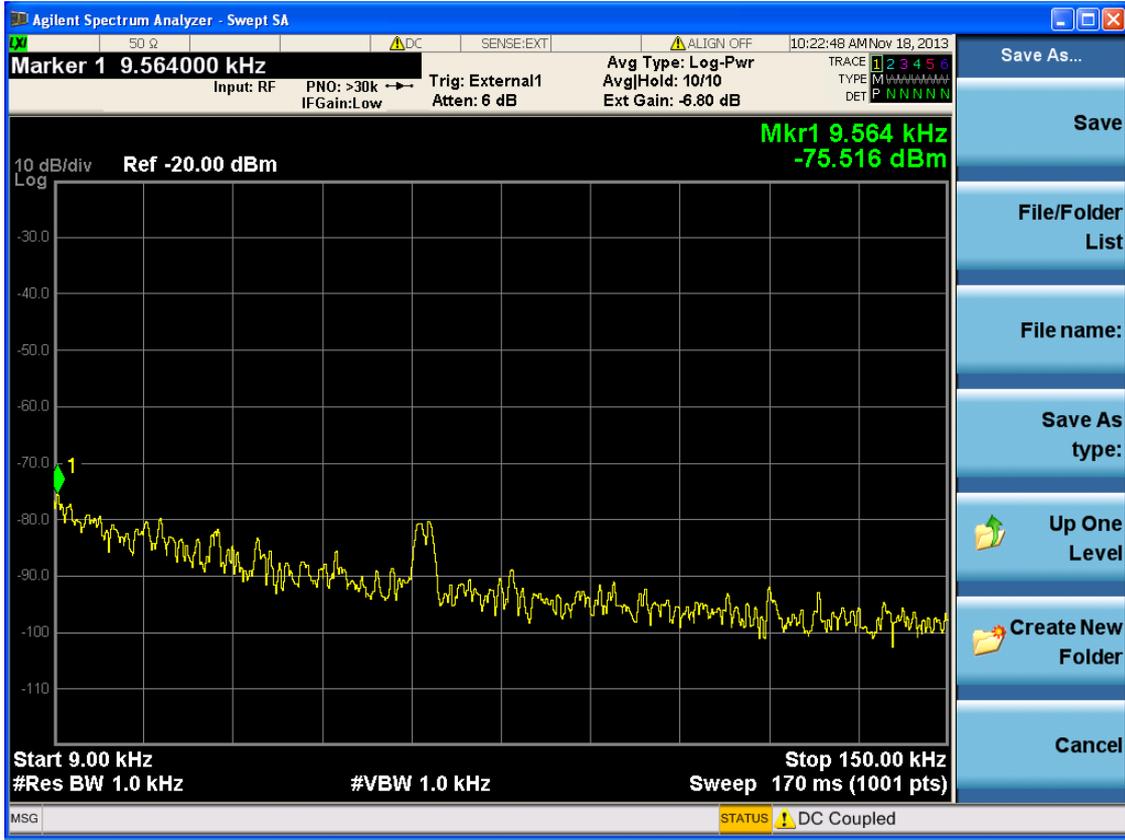20M-2653.5MHz-QPSK-9k-Port1

20M-2653.5MHz-QPSK-150k-Port1
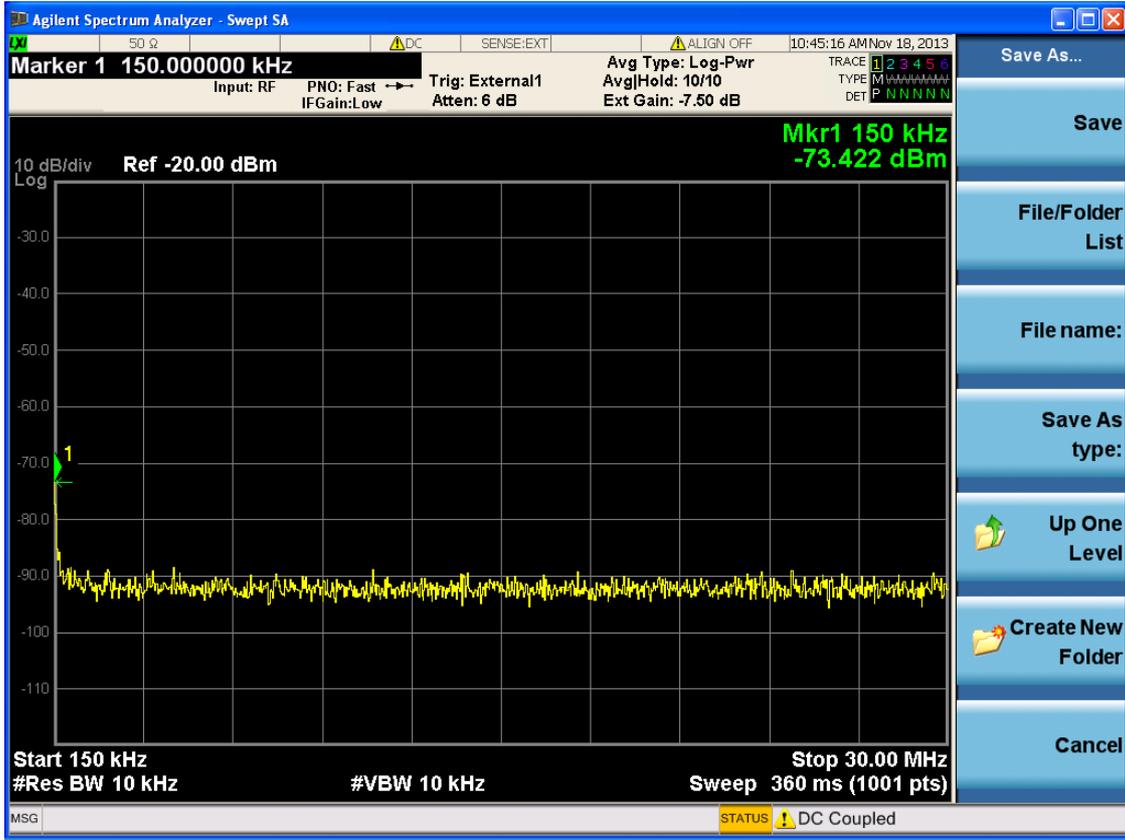
20M-2653.5MHz-QPSK-30M-Port1
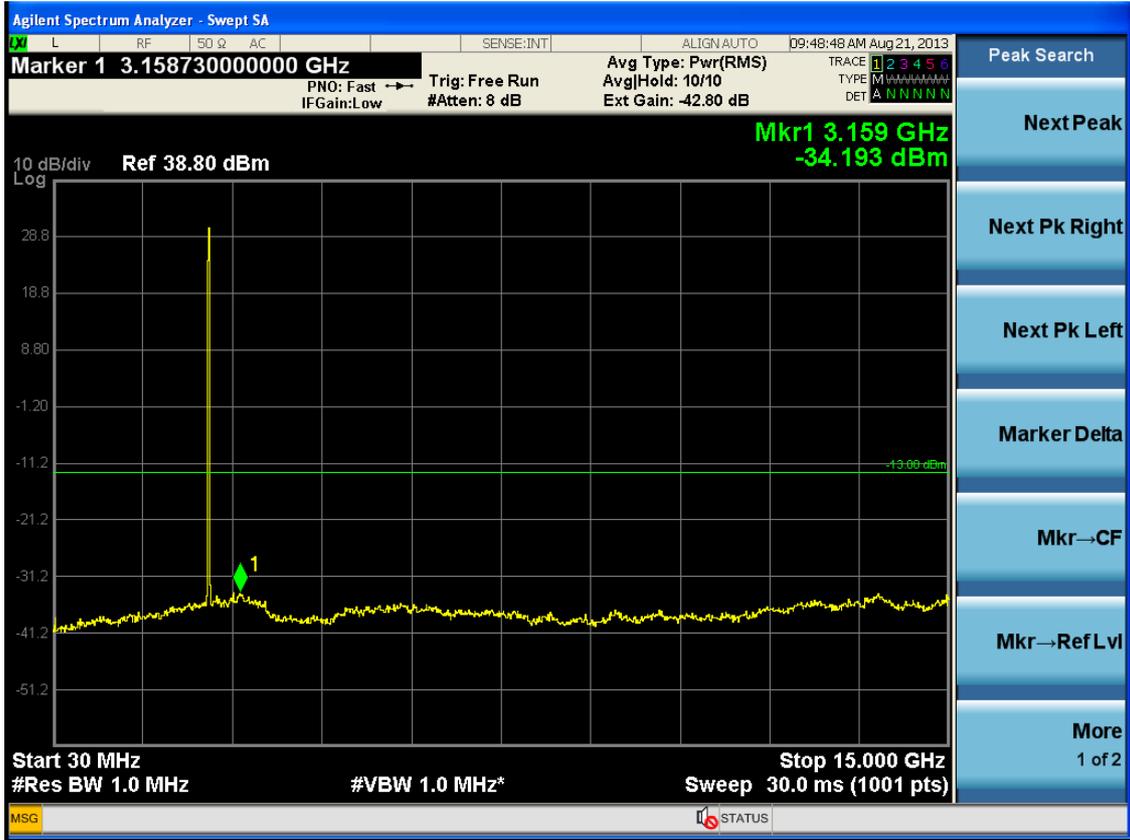
20M-2653.5MHz-QPSK-15G-Port1

20M-2653.5MHz-QPSK-Band Edge-Port1

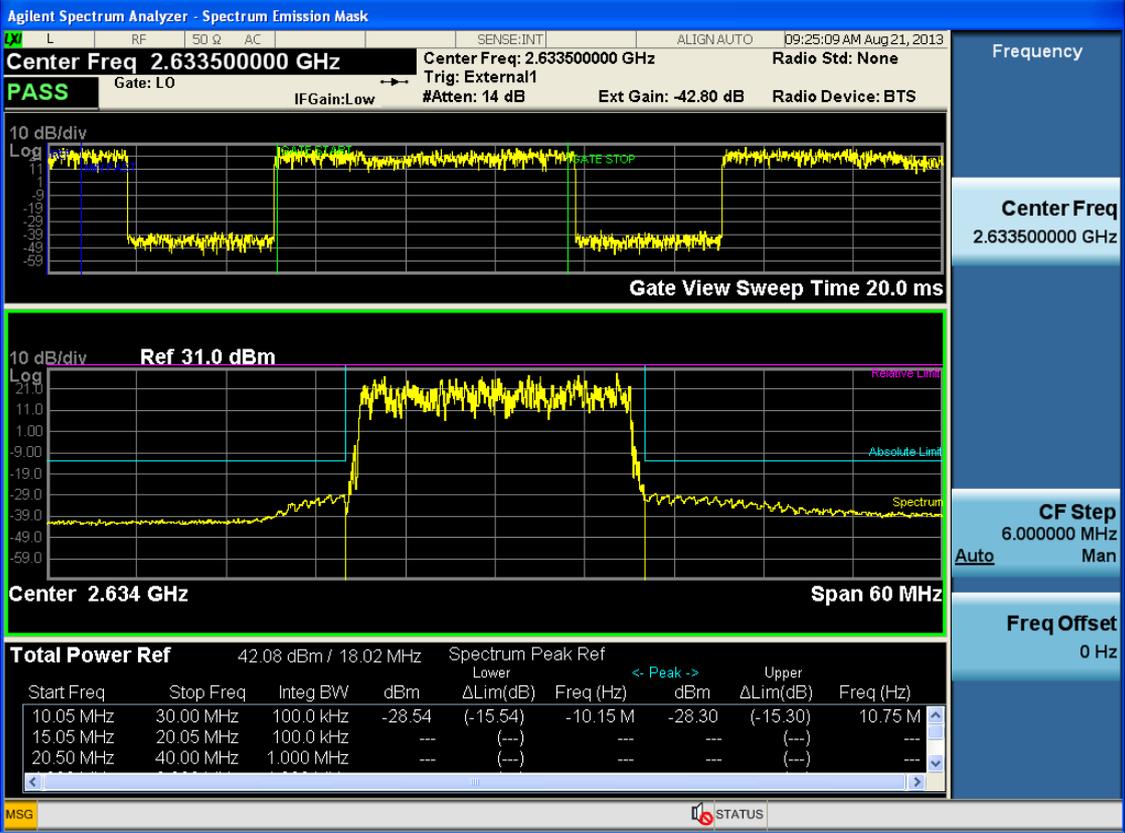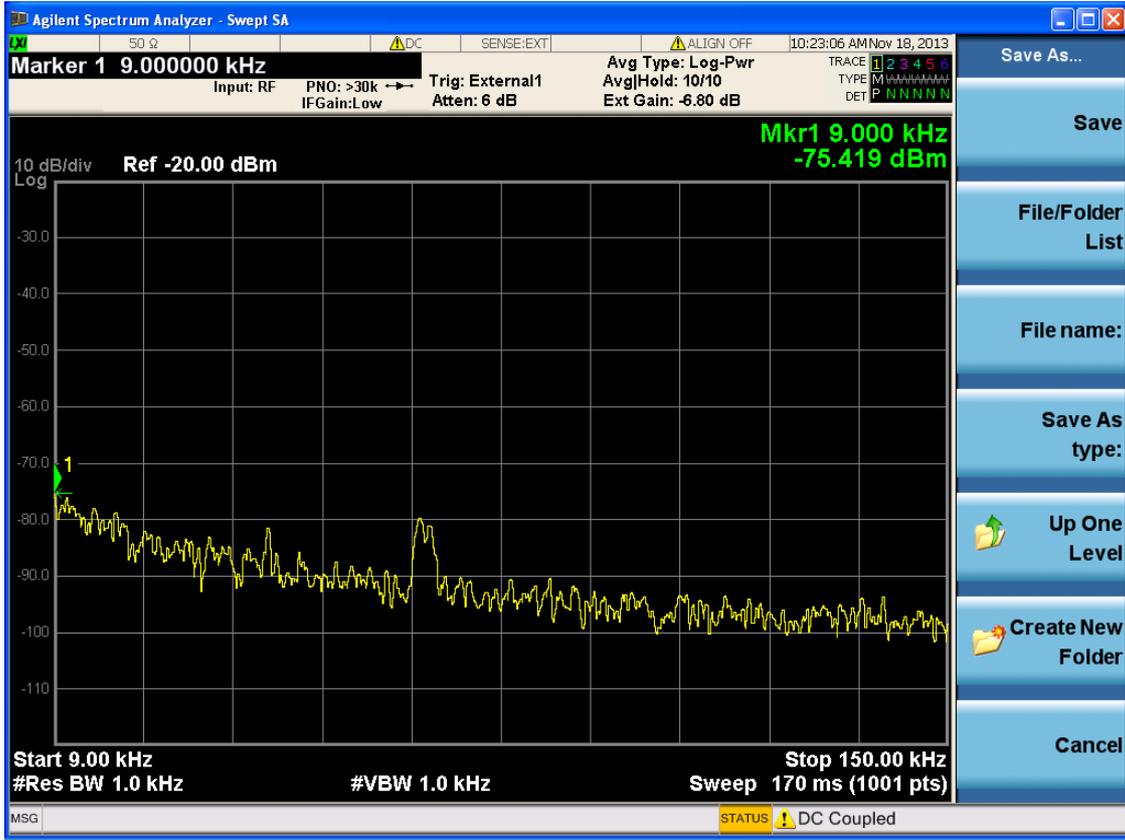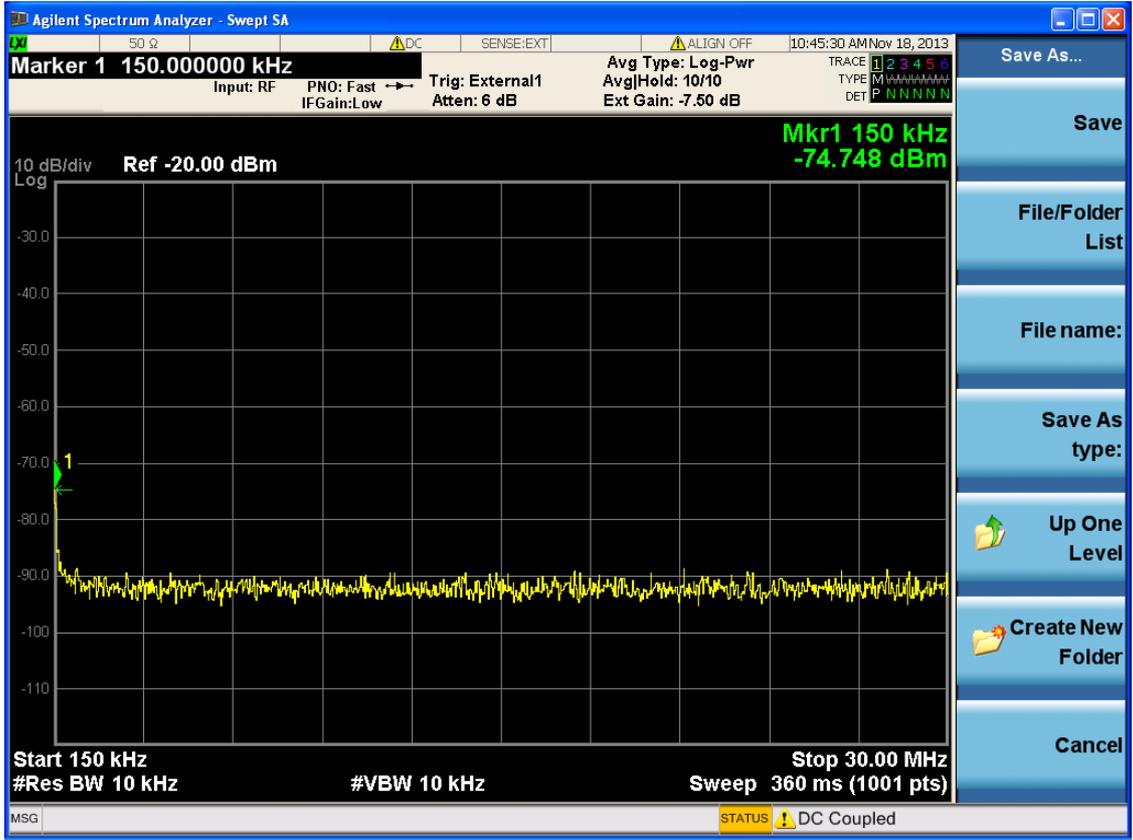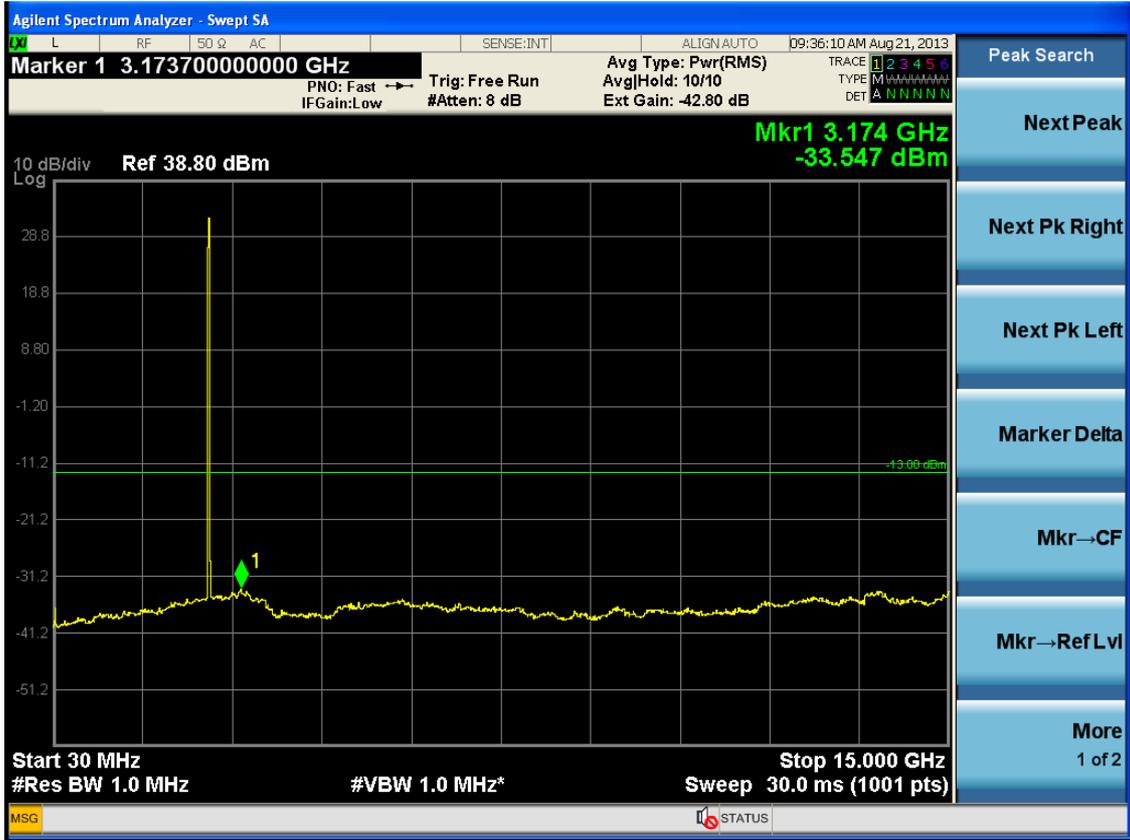20M-2653.5MHz-16QAM-9k-Port1
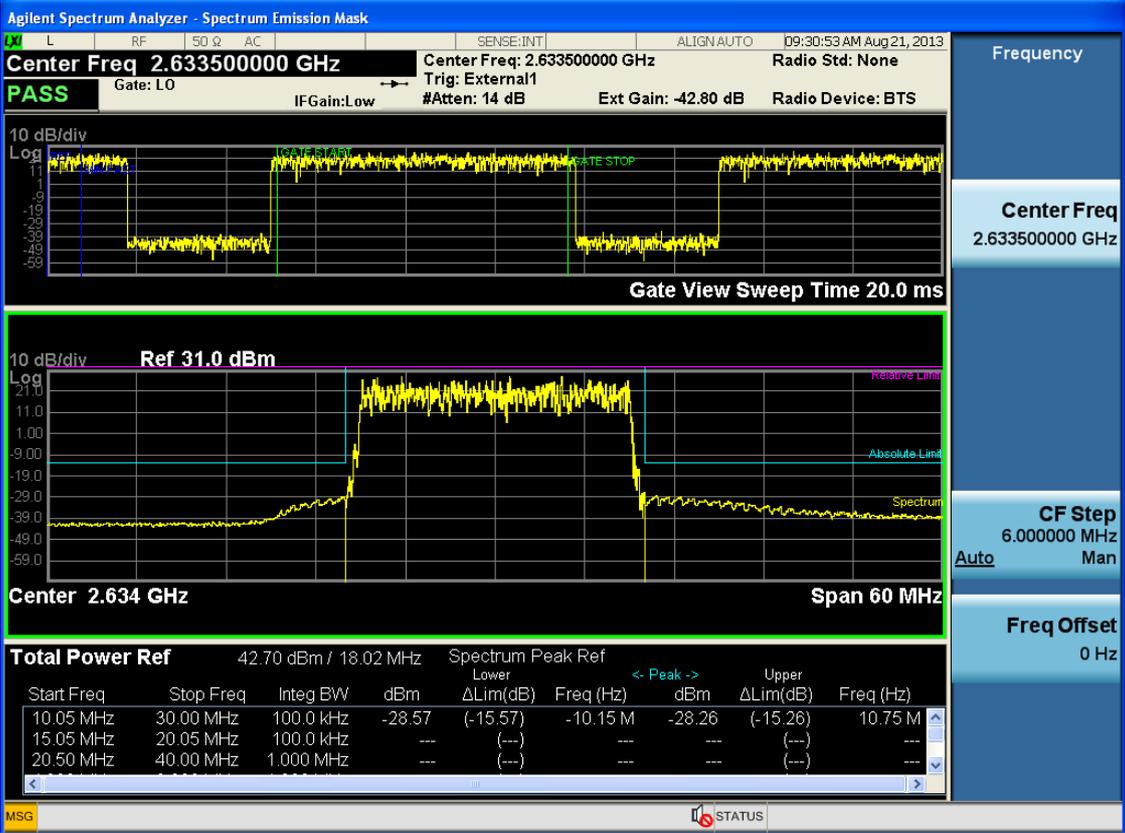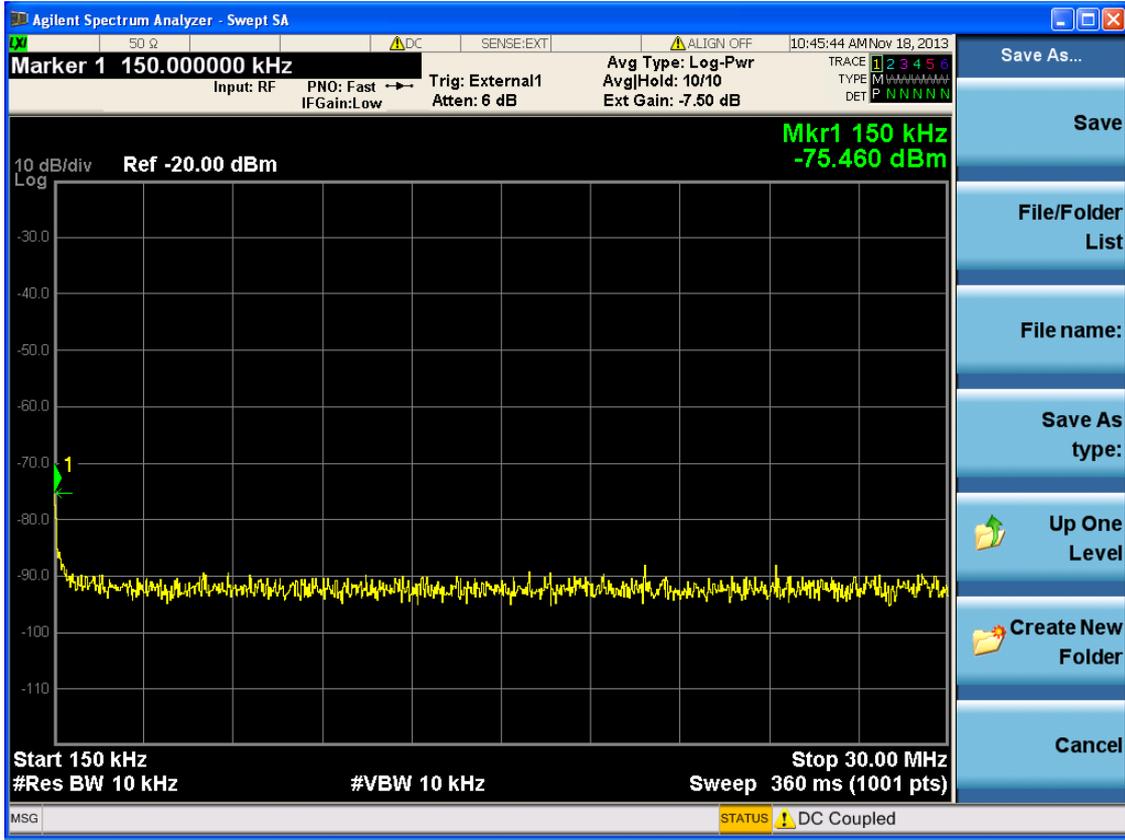
20M-2653.5MHz-16QAM-150k-Port1

20M-2653.5MHz-16QAM-30M-Port1

20M-2653.5MHz-16QAM-15G-Port1

20M-2653.5MHz-16QAM-Band Edge-Port1

FCC ID: Q78-R8964S2600

Agilent Spectrum Analyzer - Swept SA

| 50 Ω | | ⚠DC | SENSE:EXT | ⚠ALIGN OFF | 10:23:06 AM Nov 18, 2013 |

Marker 1  9.000000 kHz

Input: RF   PNO: >30k   Trig: External1   Avg Type: Log-Pwr   TRACE 1 2 3 4 5 6
IFGain:Low   Atten: 6 dB   Avg|Hold: 10/10   TYPE M wwwwww
Ext Gain: -6.80 dB   DET P N N N N N

Mkr1 9.000 kHz
-75.419 dBm

10 dB/div   Ref -20.00 dBm
Log

-30.0
-40.0
-50.0
-60.0
-70.0
1
-80.0
-90.0
-100
-110

Start 9.00 kHz   Stop 150.00 kHz
#Res BW 1.0 kHz   #VBW 1.0 kHz   Sweep 170 ms (1001 pts)

MSG   STATUS ⚠DC Coupled

Save As...
Save
File/Folder List
File name:
Save As type:
Up One Level
Create New Folder
Cancel

20M-2653.5MHz-64QAM-9k-Port1

20M-2653.5MHz-64QAM-150k-Port1

20M-2653.5MHz-64QAM-30M-Port1

20M-2653.5MHz-64QAM-15G-Port1

Intertek

Agilent Spectrum Analyzer - Spectrum Emission Mask

| L | RF | 50 Ω | AC | | SENSE:INT | ALIGN AUTO | 09:30:53 AM Aug 21, 2013 |

Center Freq 2.633500000 GHz

Center Freq: 2.633500000 GHz    Radio Std: None

PASS    Gate: LO    Trig: External1

IFGain:Low    #Atten: 14 dB    Ext Gain: -42.80 dB    Radio Device: BTS

Frequency

Center Freq
2.633500000 GHz

10 dB/div
Log

Gate View Sweep Time 20.0 ms

10 dB/div    Ref 31.0 dBm
Log

Relative Limit

Absolute Limit

Spectrum

Center  2.634 GHz    Span 60 MHz

CF Step
6.000000 MHz
Auto    Man

Freq Offset
0 Hz

Total Power Ref    42.70 dBm / 18.02 MHz    Spectrum Peak Ref

| | | | | Lower | | <- Peak -> | Upper | |
| Start Freq | Stop Freq | Integ BW | dBm | ΔLim(dB) | Freq (Hz) | dBm | ΔLim(dB) | Freq (Hz) |
| 10.05 MHz | 30.00 MHz | 100.0 kHz | -28.57 | (-15.57) | -10.15 M | -28.26 | (-15.26) | 10.75 M |
| 15.05 MHz | 20.05 MHz | 100.0 kHz | --- | (---) | --- | --- | (---) | --- |
| 20.50 MHz | 40.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | --- |

MSG    STATUS
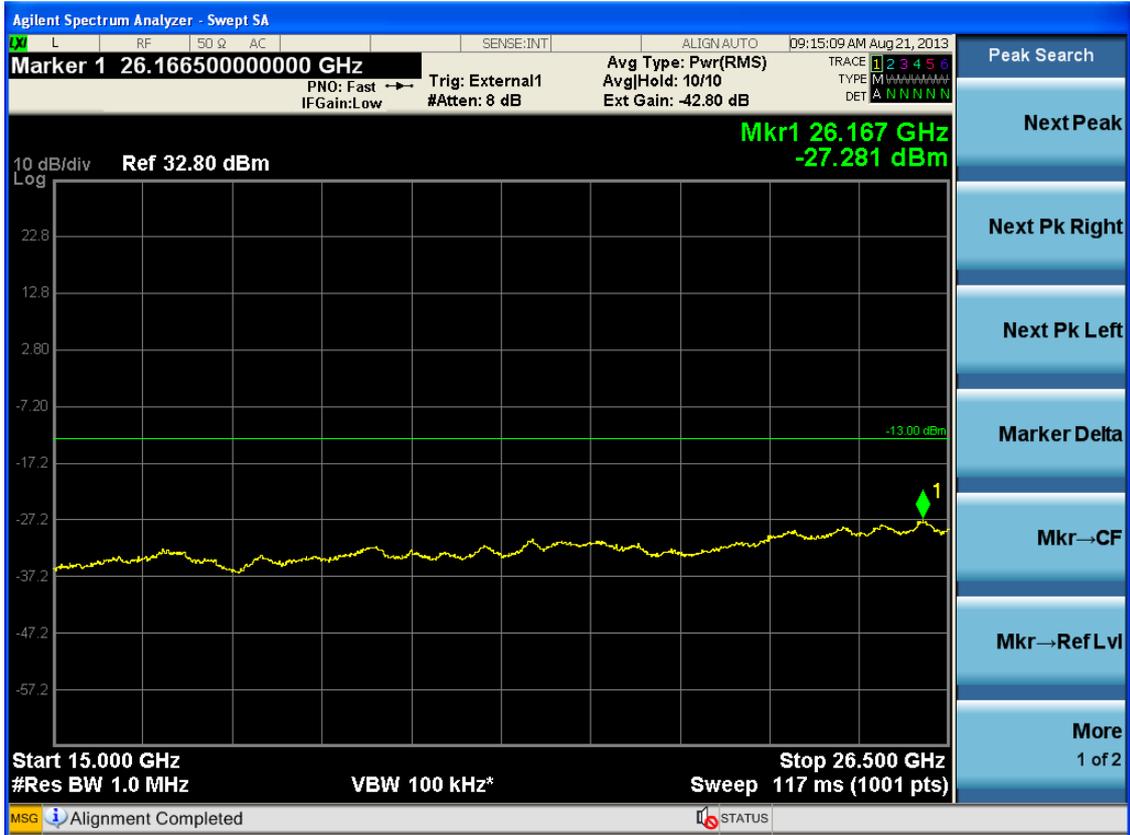
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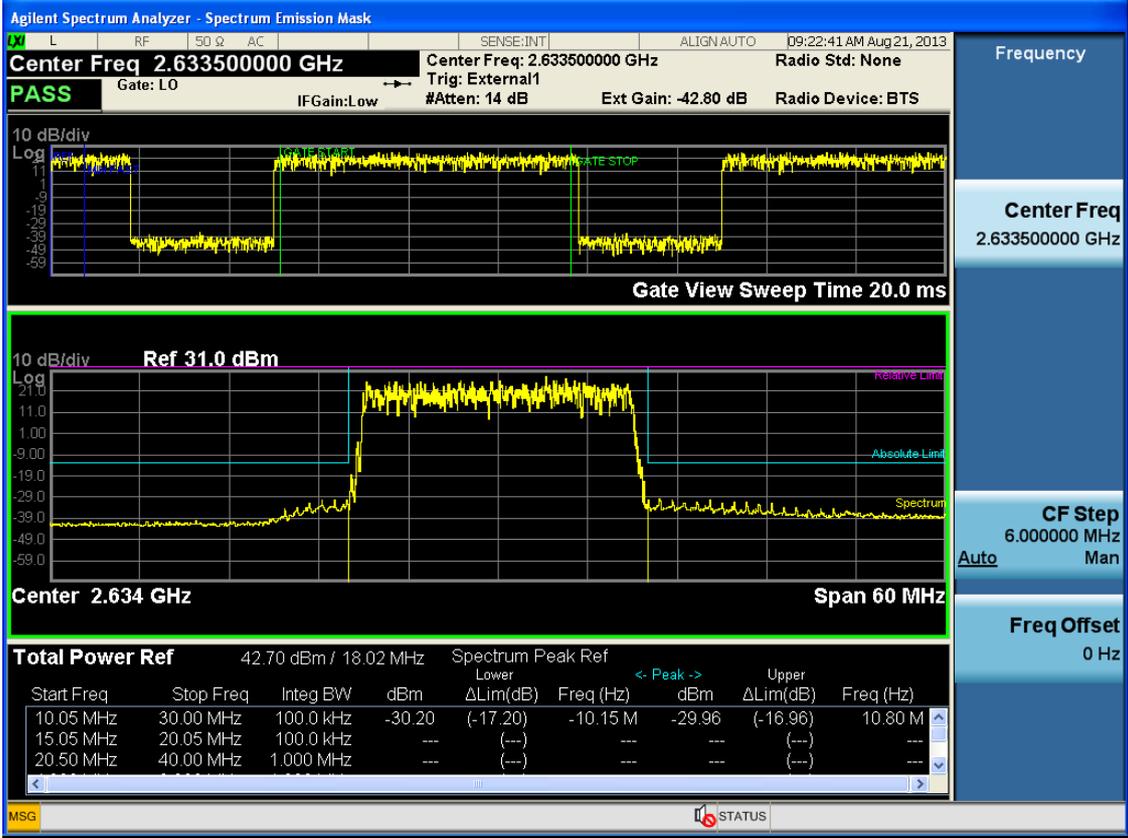
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20M-2653.5MHz-QPSK-150k-Port2
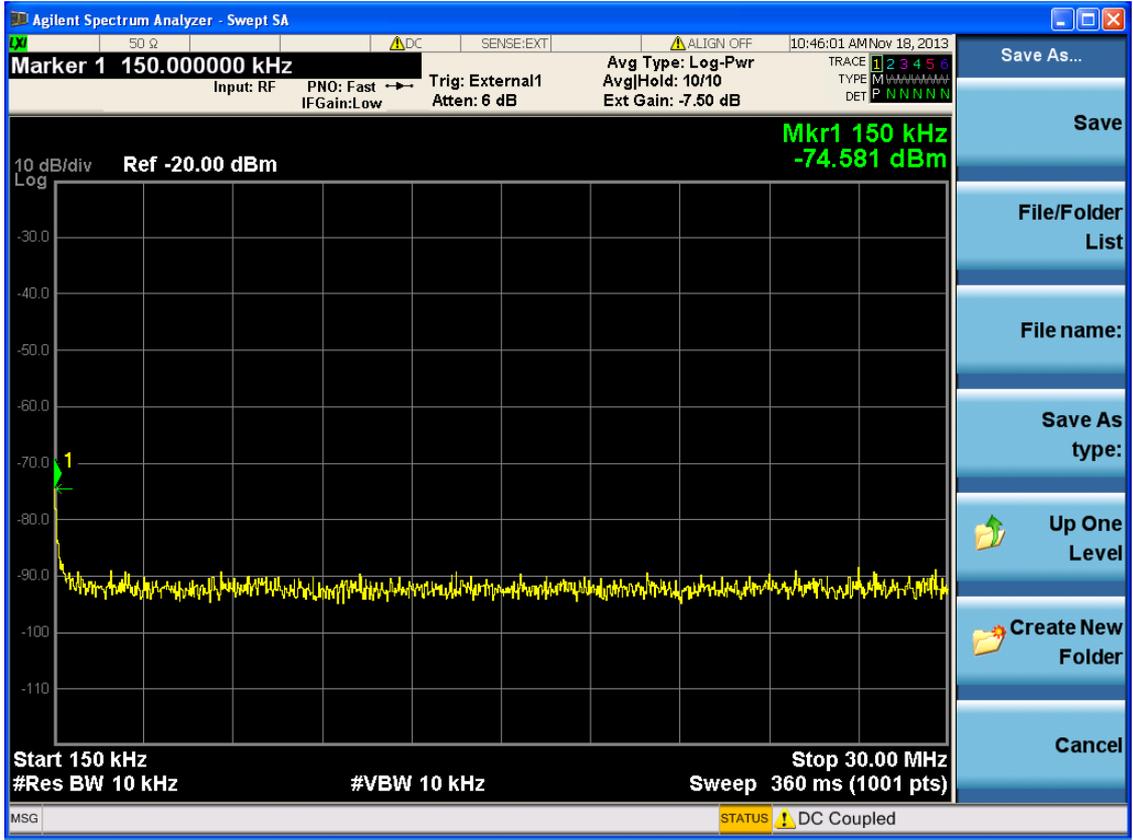
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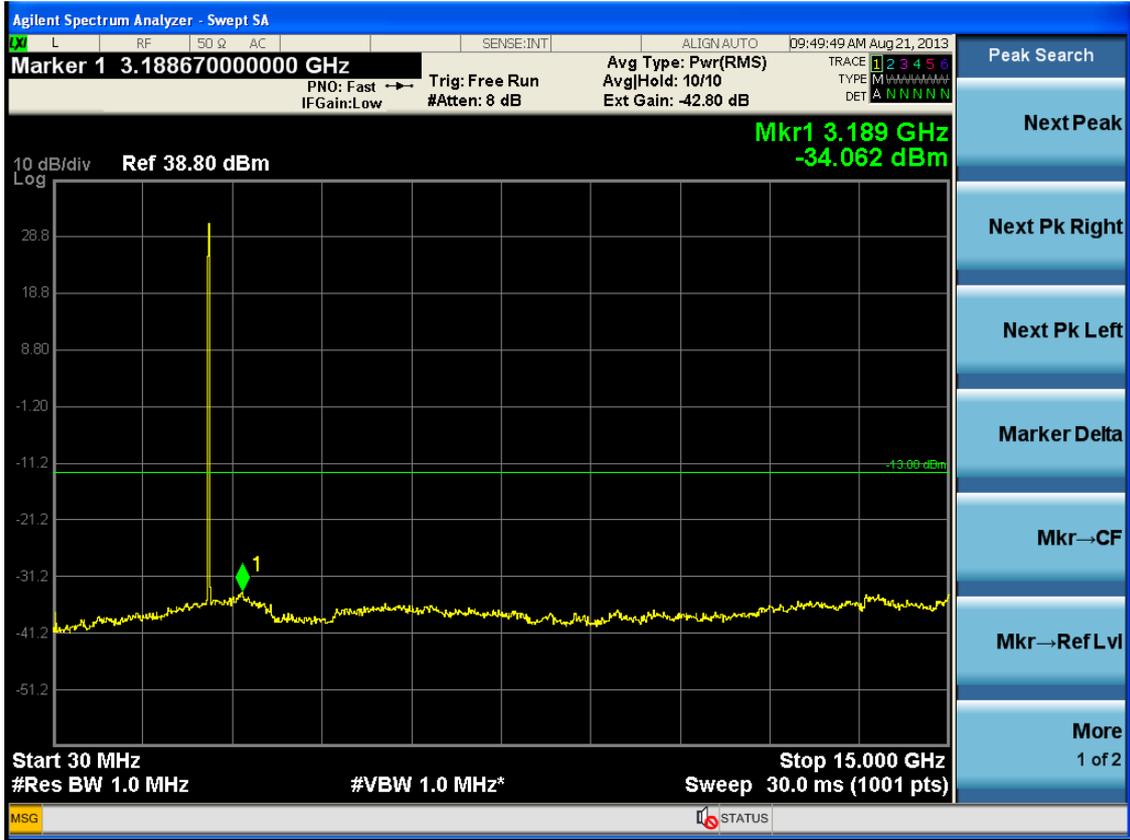
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20M-2653.5MHz-QPSK-Band Edge-Port2
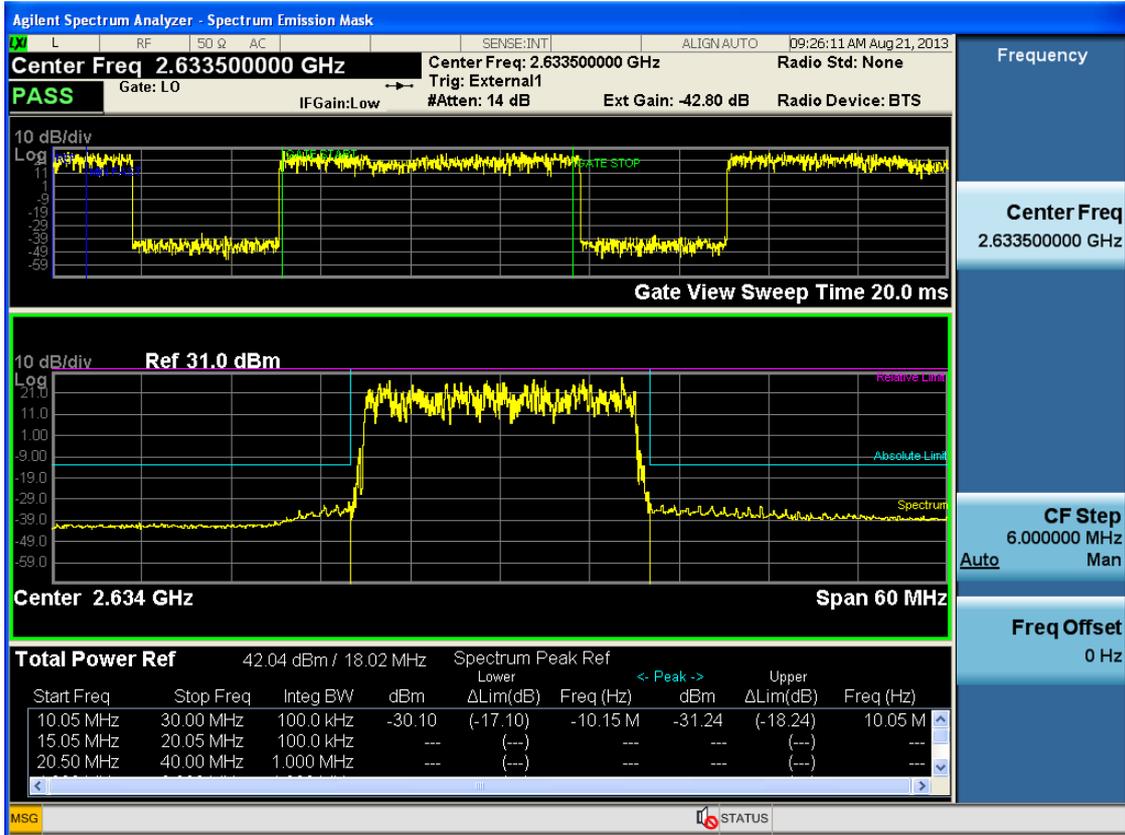
20M-2653.5MHz-16QAM-9k-Port2

20M-2653.5MHz-16QAM-150k-Port2

20M-2653.5MHz-16QAM-30M-Port2
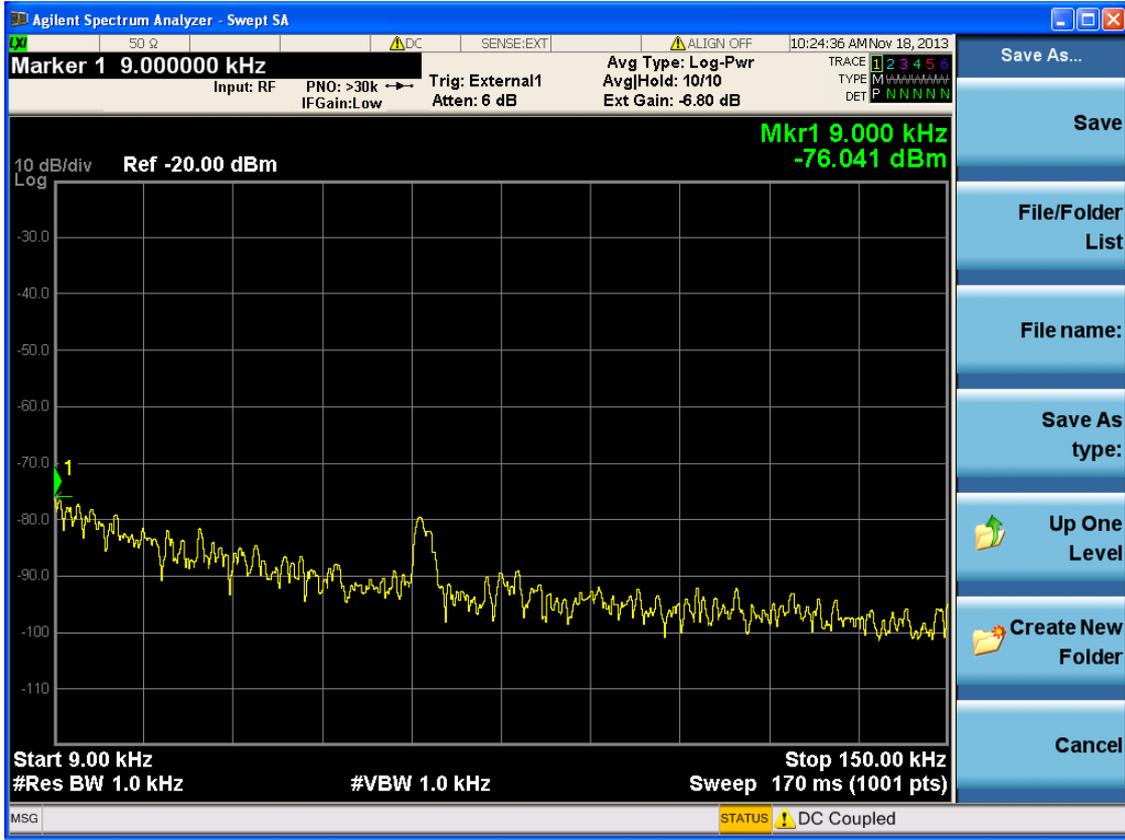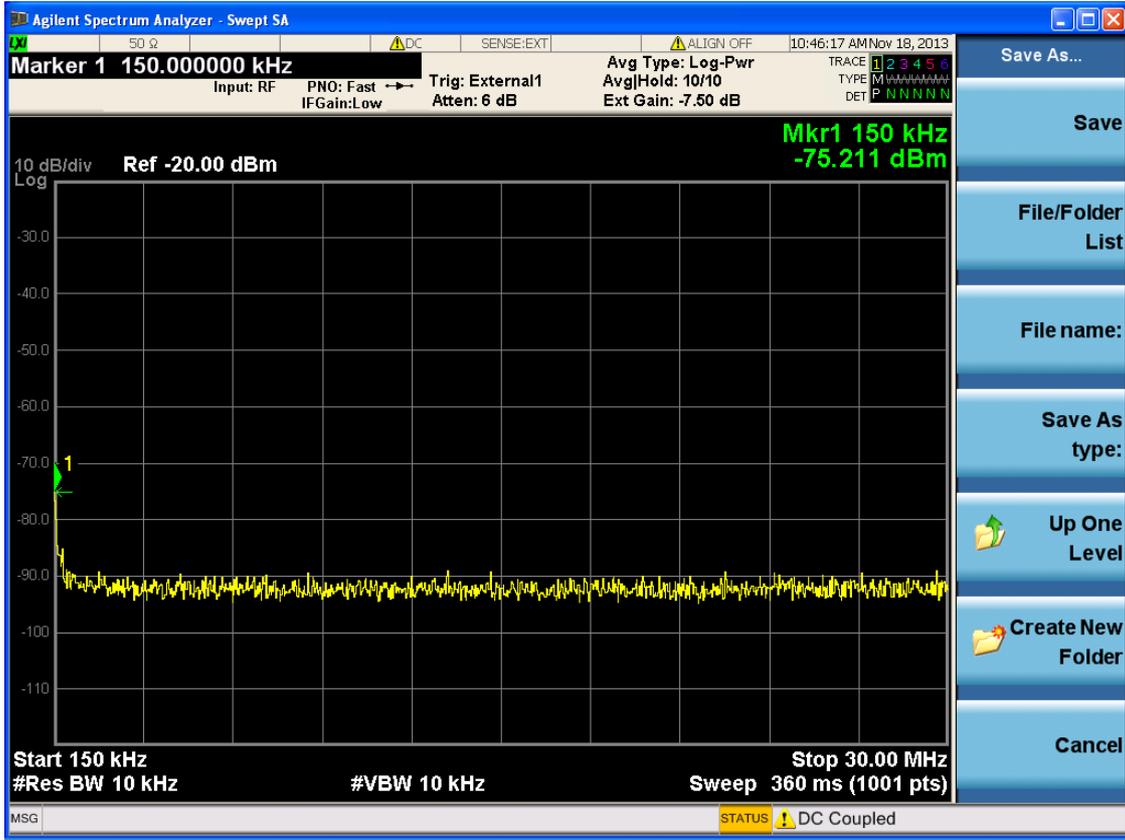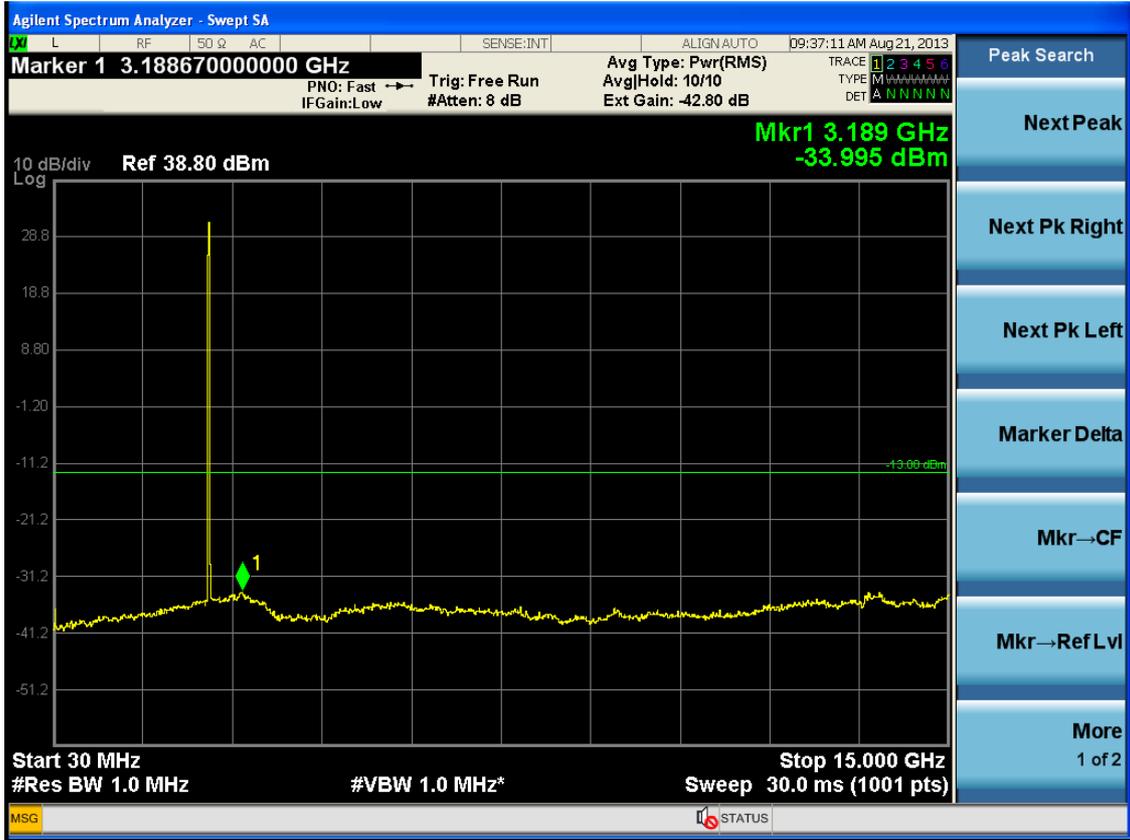
20M-2653.5MHz-16QAM-15G-Port2

20M-2653.5MHz-16QAM-Band Edge-Port2

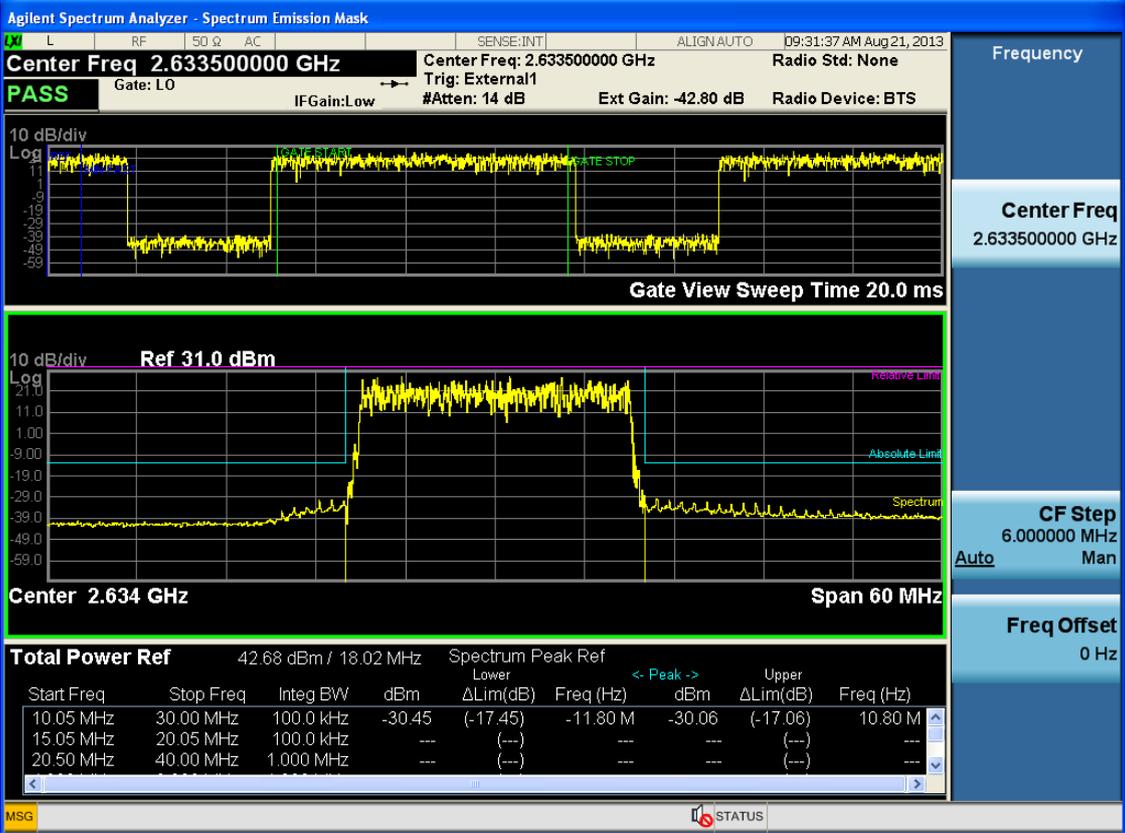FCC ID: Q78-R8964S2600



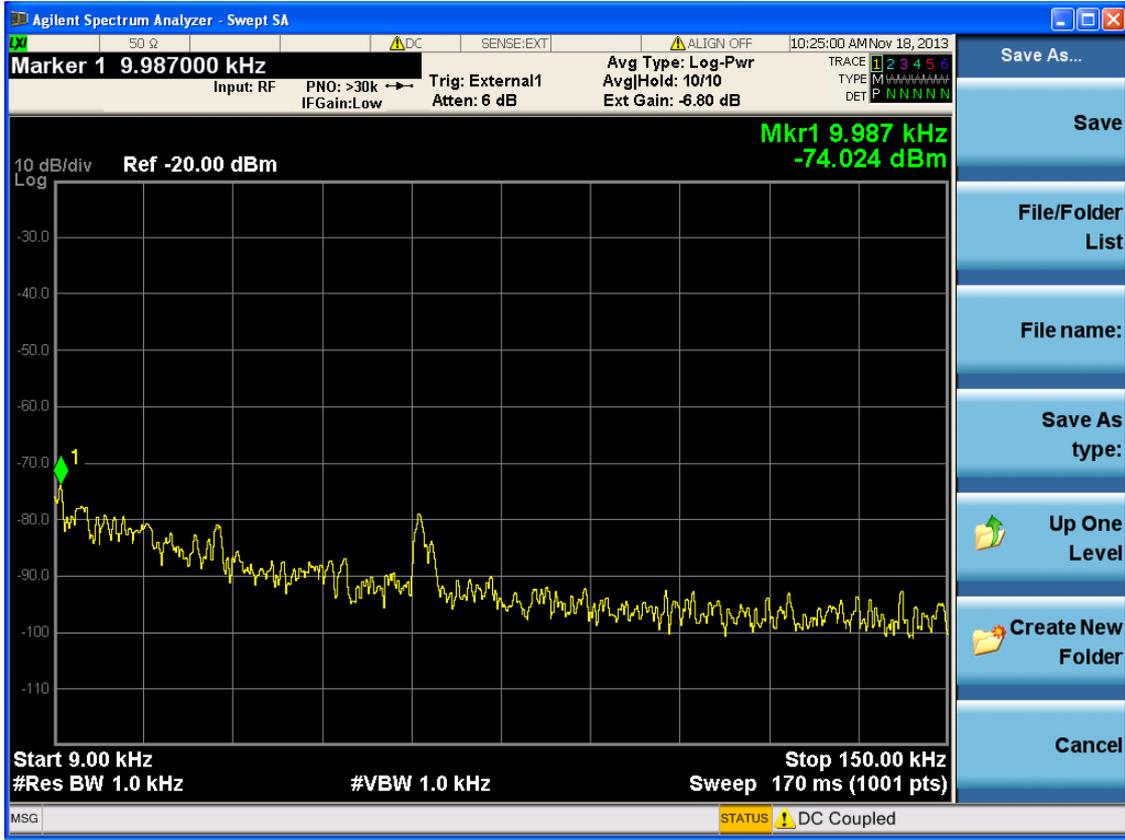20M-2653.5MHz-64QAM-9k-Port2

20M-2653.5MHz-64QAM-150k-Port2
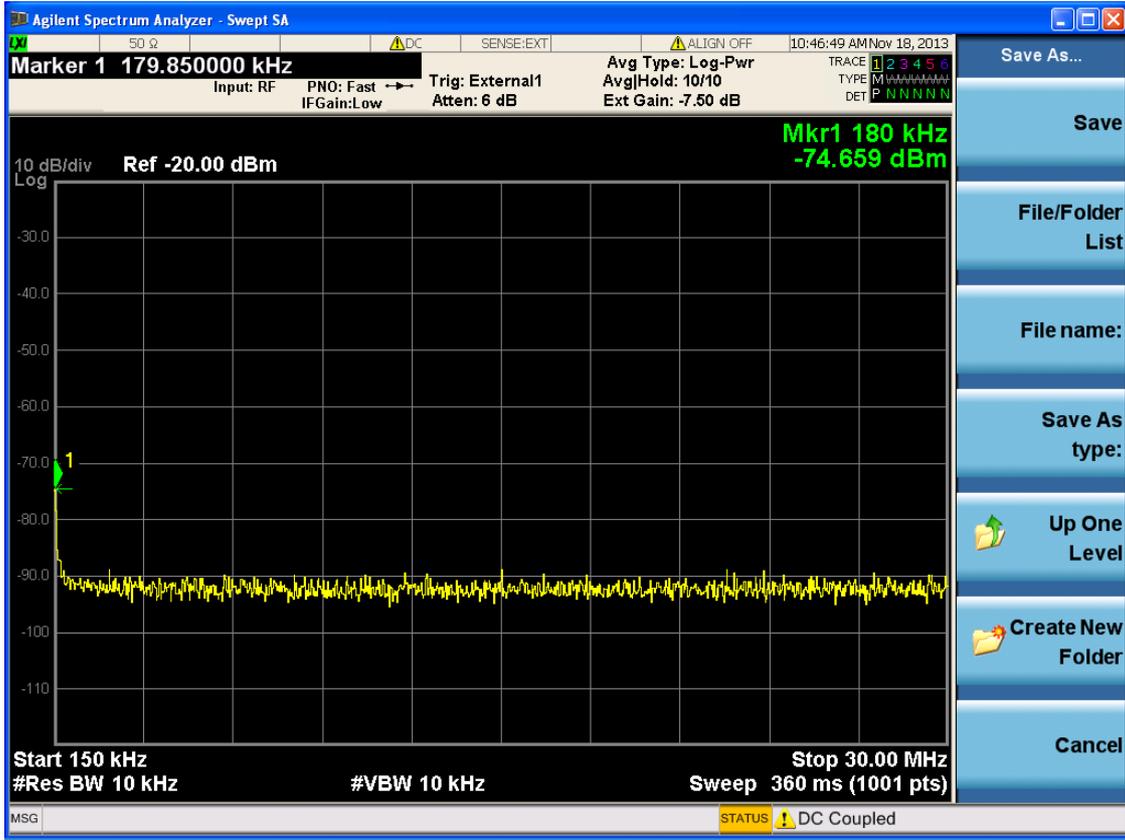
20M-2653.5MHz-64QAM-30M-Port2
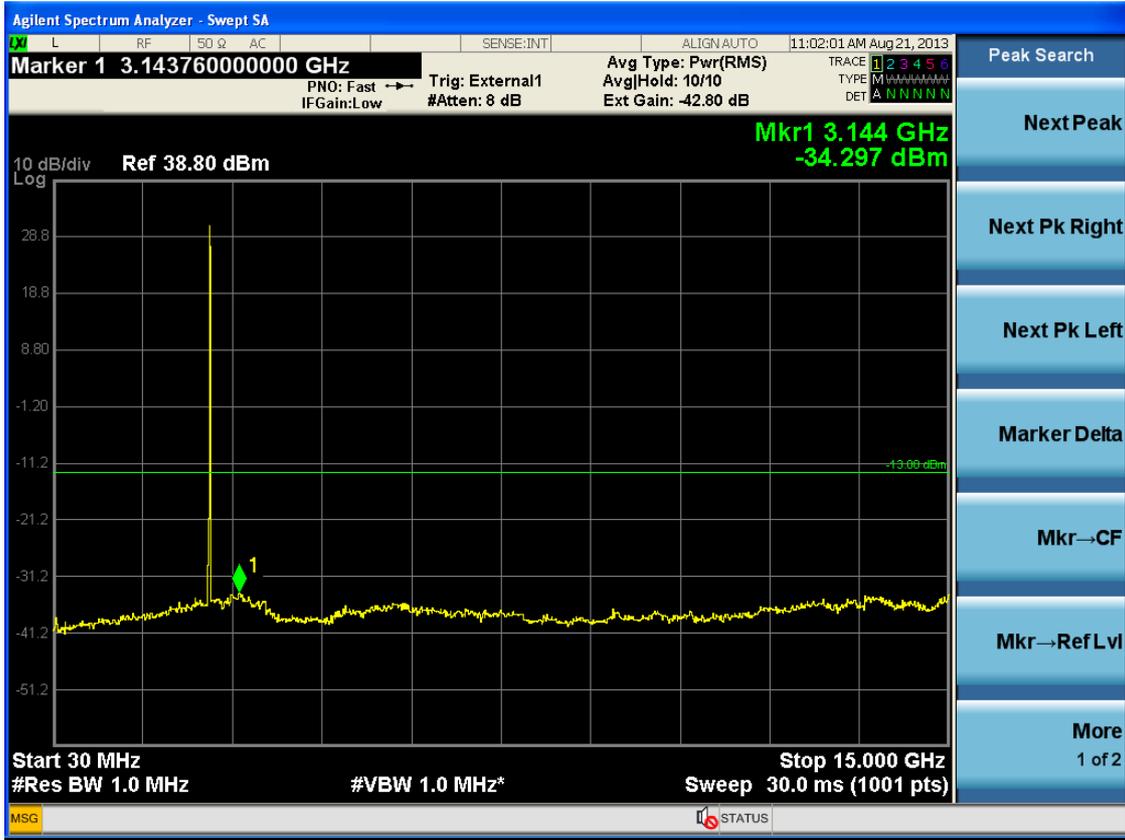
20M-2653.5MHz-64QAM-15G-Port2

20M-2653.5MHz-64QAM-Band Edge-Port2
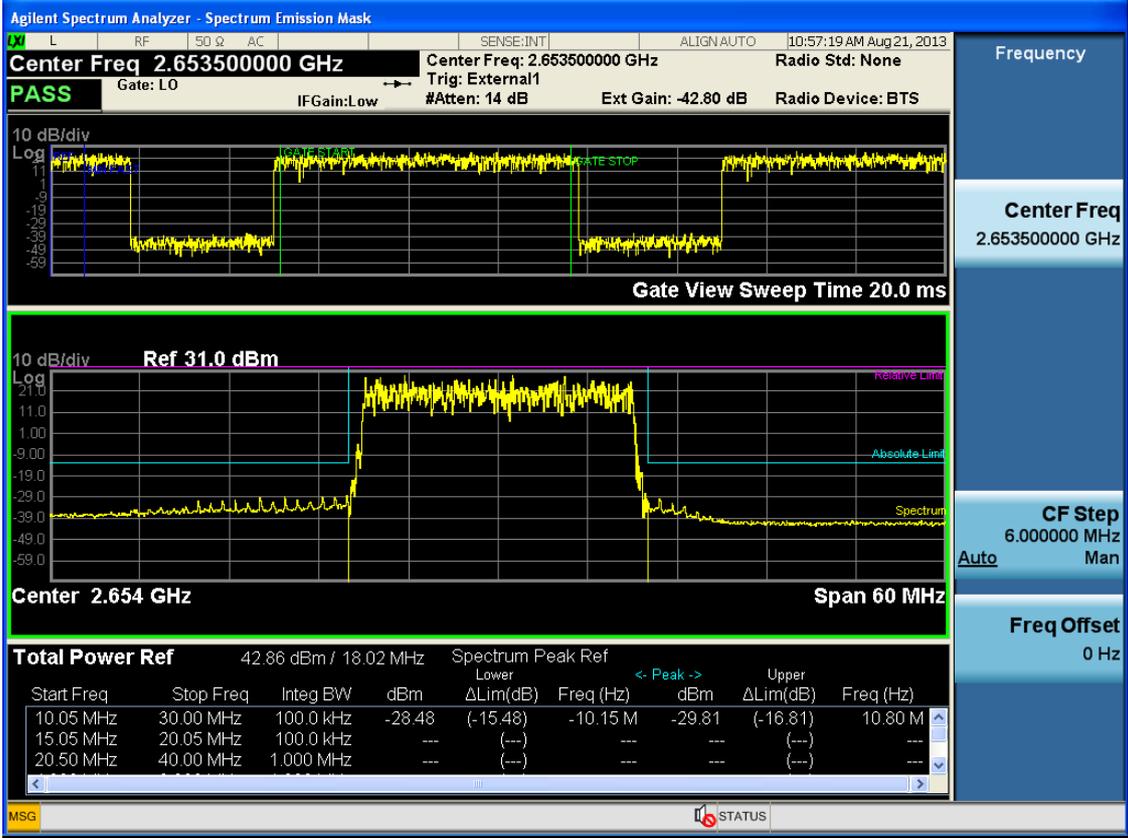
20M-2653.5MHz-QPSK-9k-Port3

20M-2653.5MHz-QPSK-150k-Port3
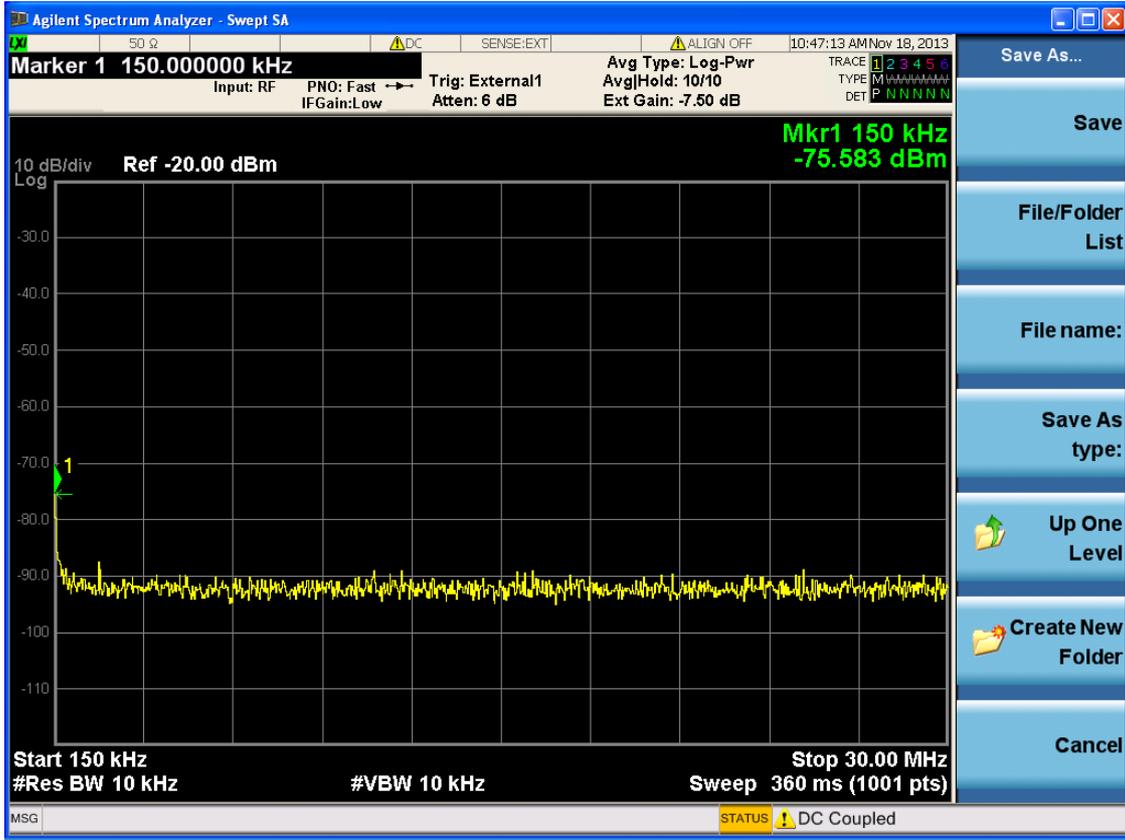
20M-2653.5MHz-QPSK-30M-Port3

20M-2653.5MHz-QPSK-15G-Port3

20M-2653.5MHz-QPSK-Band Edge-Port3

20M-2653.5MHz-16QAM-9k-Port3

20M-2653.5MHz-16QAM-150k-Port3

20M-2653.5MHz-16QAM-30M-Port3

20M-2653.5MHz-16QAM-15G-Port3

20M-2653.5MHz-16QAM-Band Edge-Port3

20M-2653.5MHz-64QAM-9k-Port3

20M-2653.5MHz-64QAM-150k-Port3

20M-2653.5MHz-64QAM-30M-Port3

20M-2653.5MHz-64QAM-15G-Port3

20M-2653.5MHz-64QAM-Band Edge-Port3

20M-2653.5MHz-QPSK-9k-Port4

20M-2653.5MHz-QPSK-150k-Port4

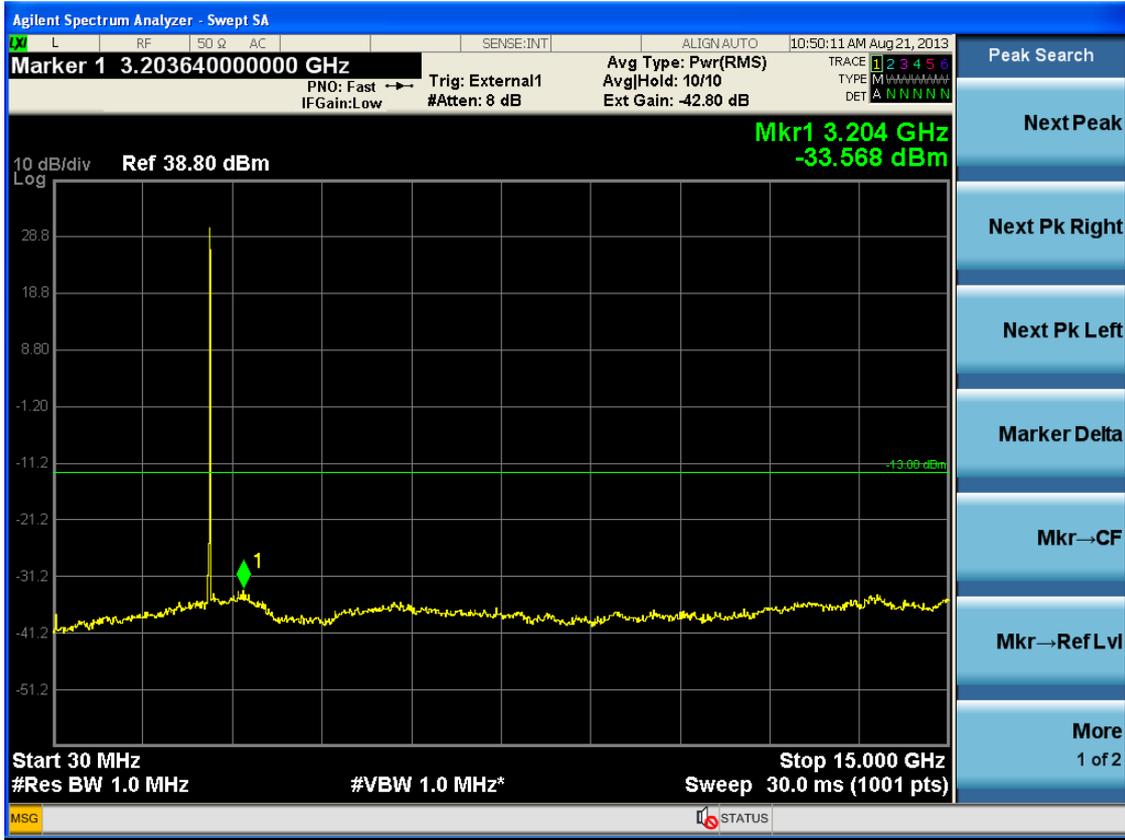20M-2653.5MHz-QPSK-30M-Port4

20M-2653.5MHz-QPSK-15G-Port4

20M-2653.5MHz-QPSK-Band Edge-Port4
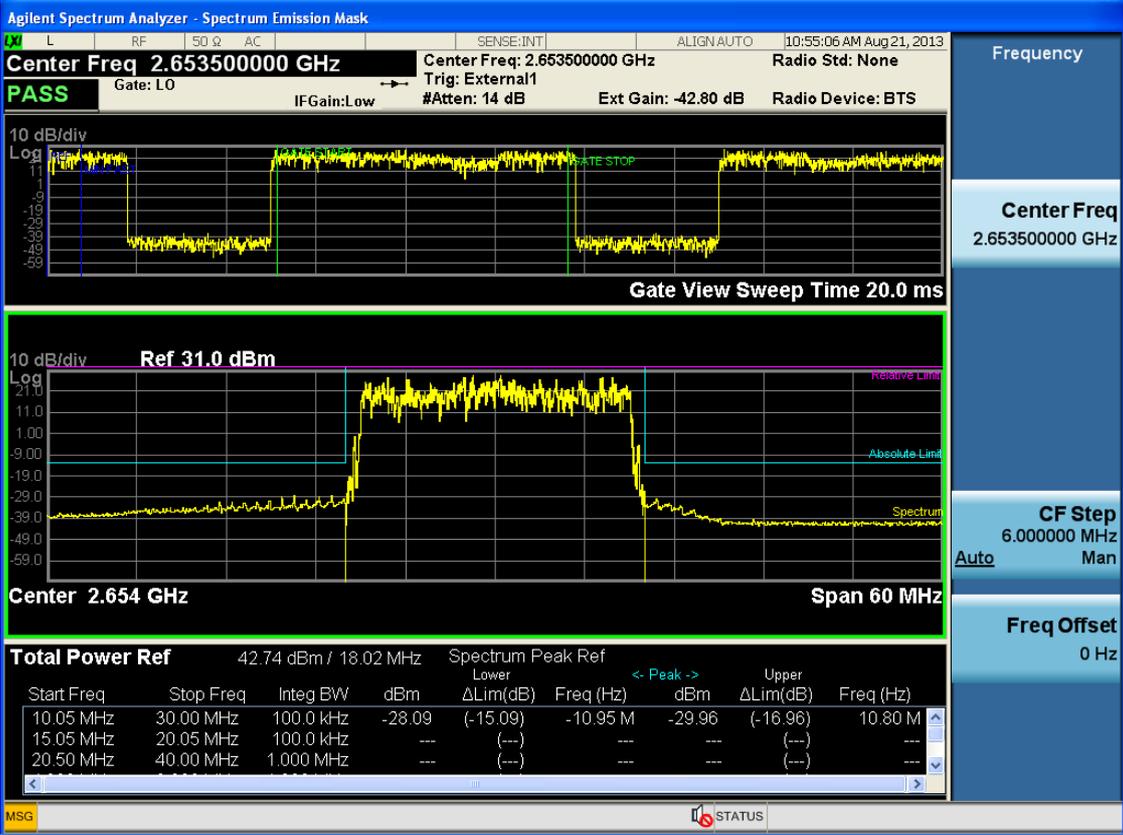
20M-2653.5MHz-16QAM-9k-Port4

20M-2653.5MHz-16QAM-150k-Port4
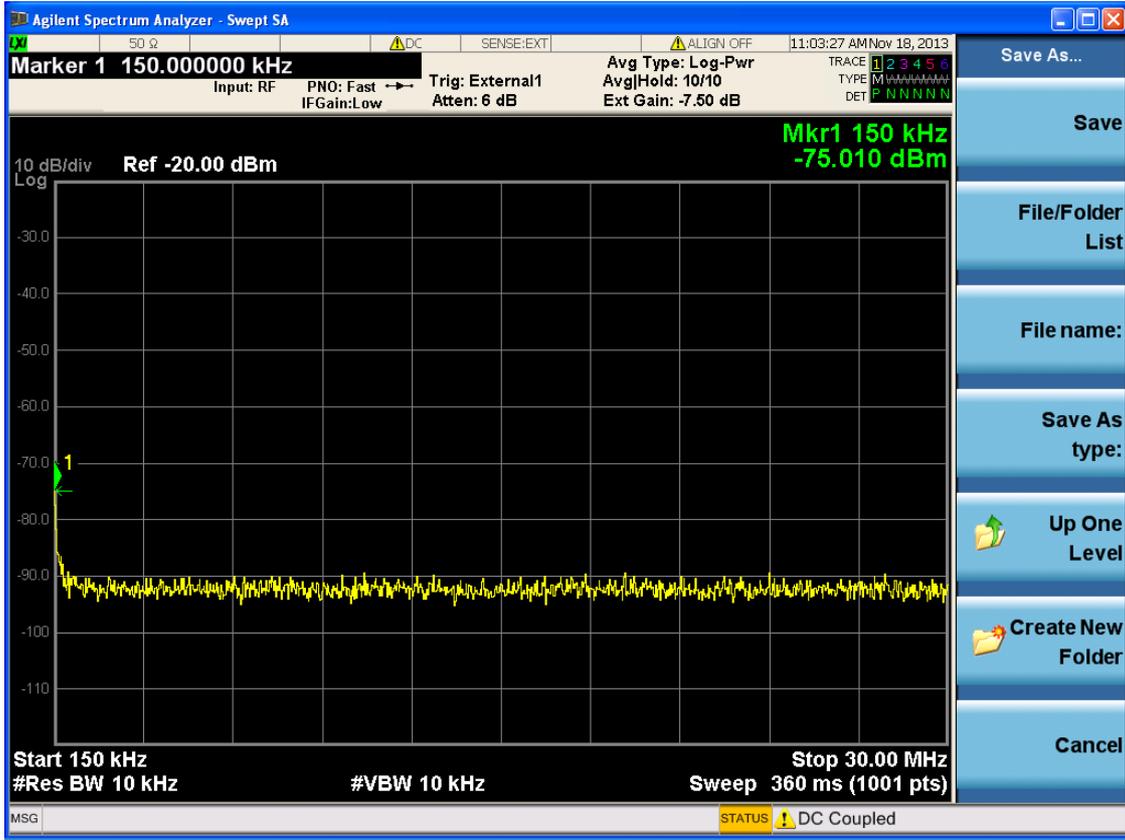
20M-2653.5MHz-16QAM-30M-Port4
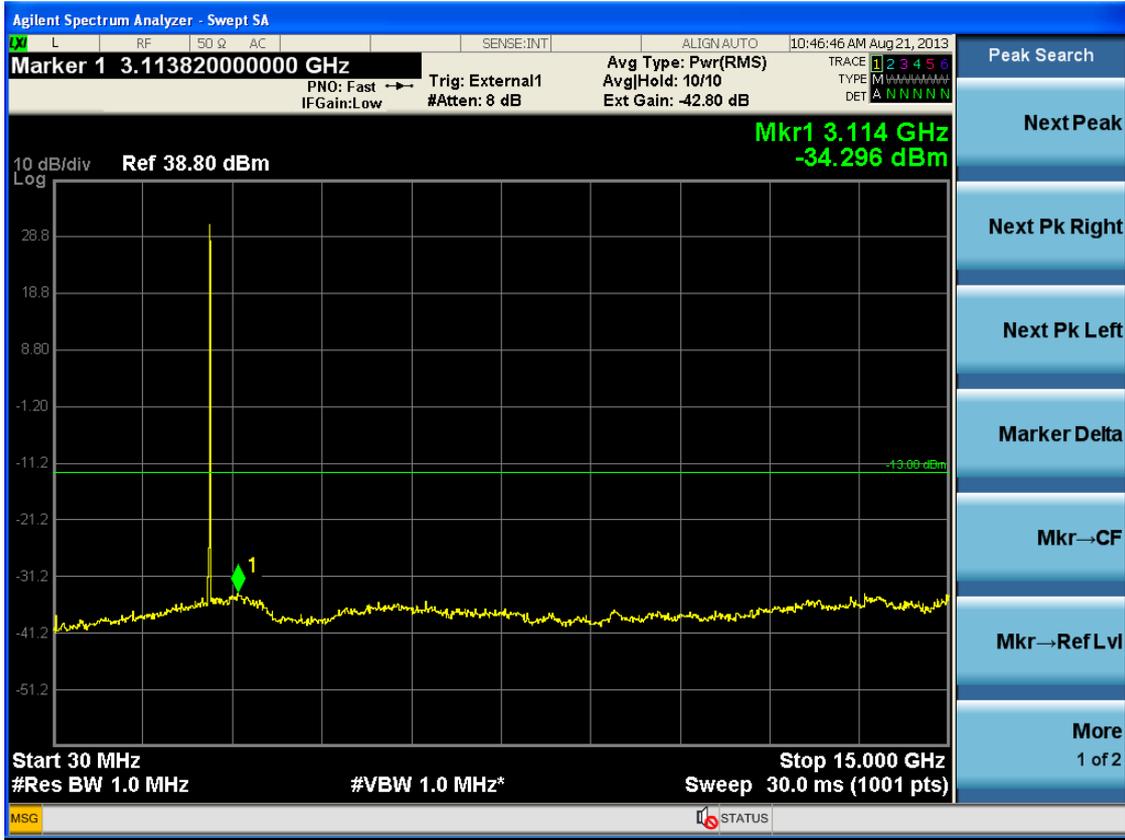
20M-2653.5MHz-16QAM-15G-Port4

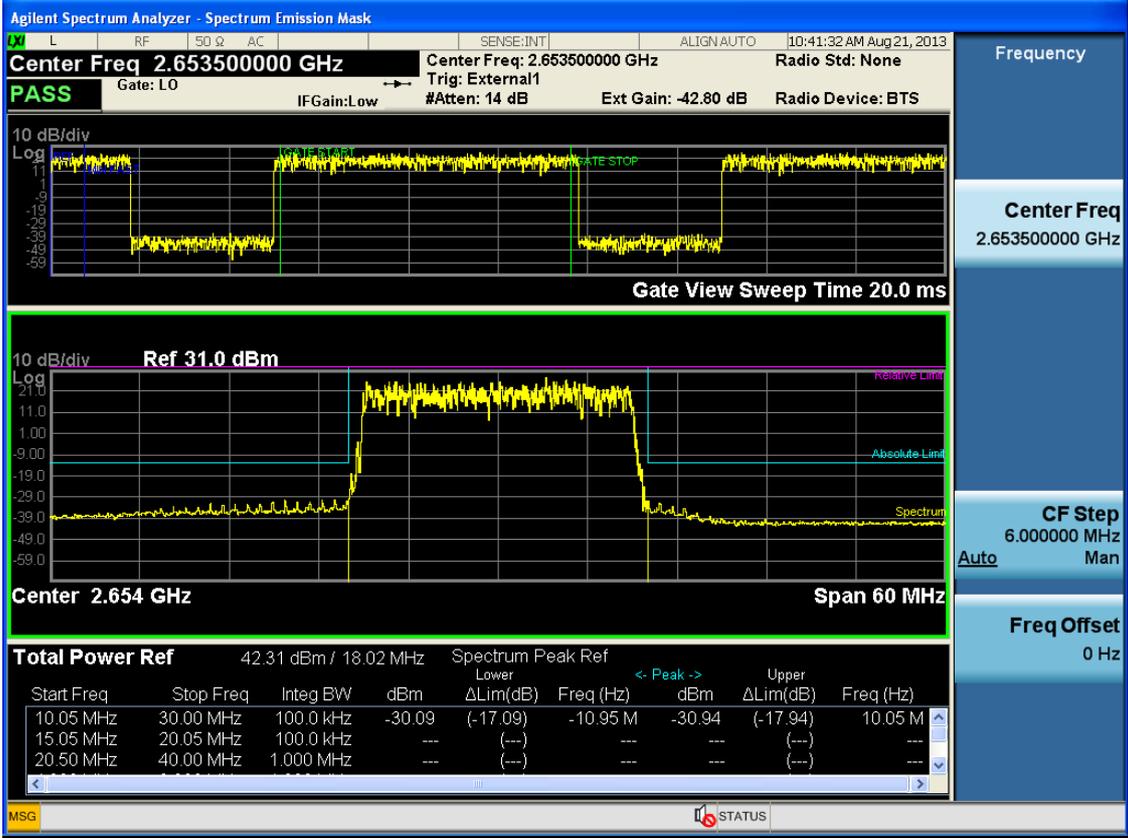20M-2653.5MHz-16QAM-Band Edge-Port4

20M-2653.5MHz-64QAM-9k-Port4

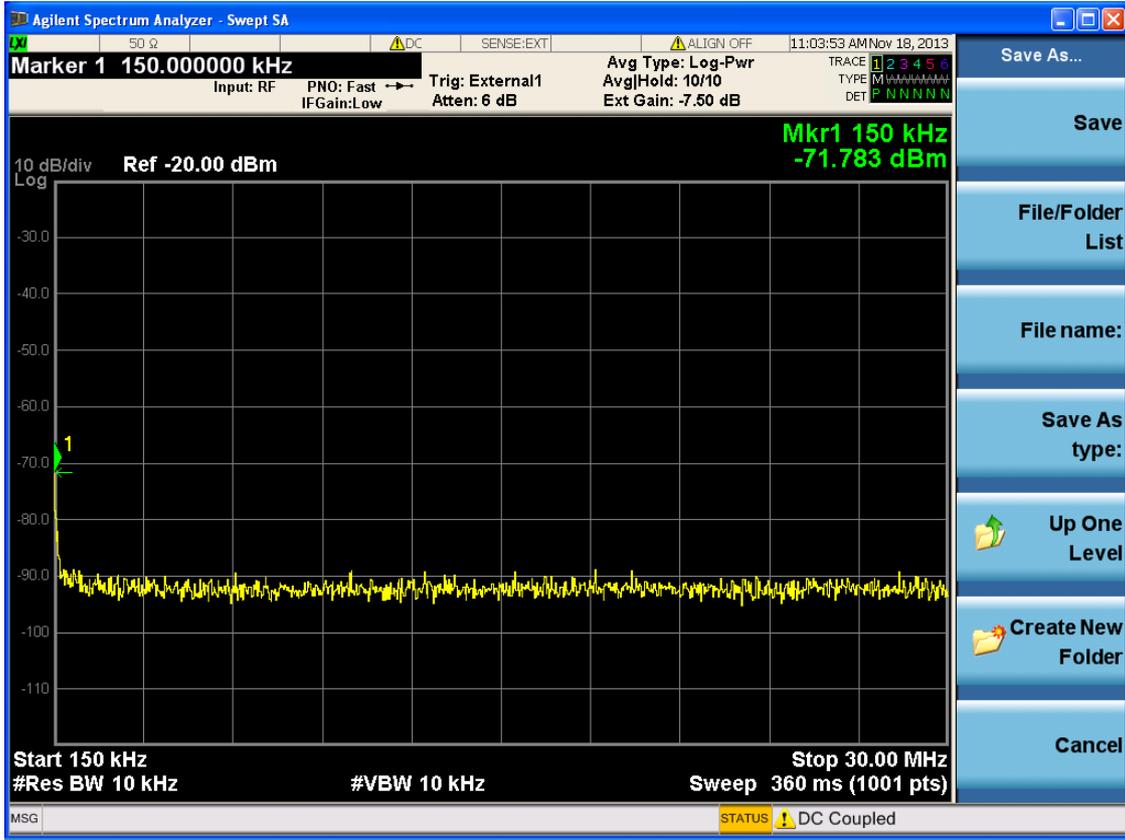20M-2653.5MHz-64QAM-150k-Port4

20M-2653.5MHz-64QAM-30M-Port4

20M-2653.5MHz-64QAM-15G-Port4

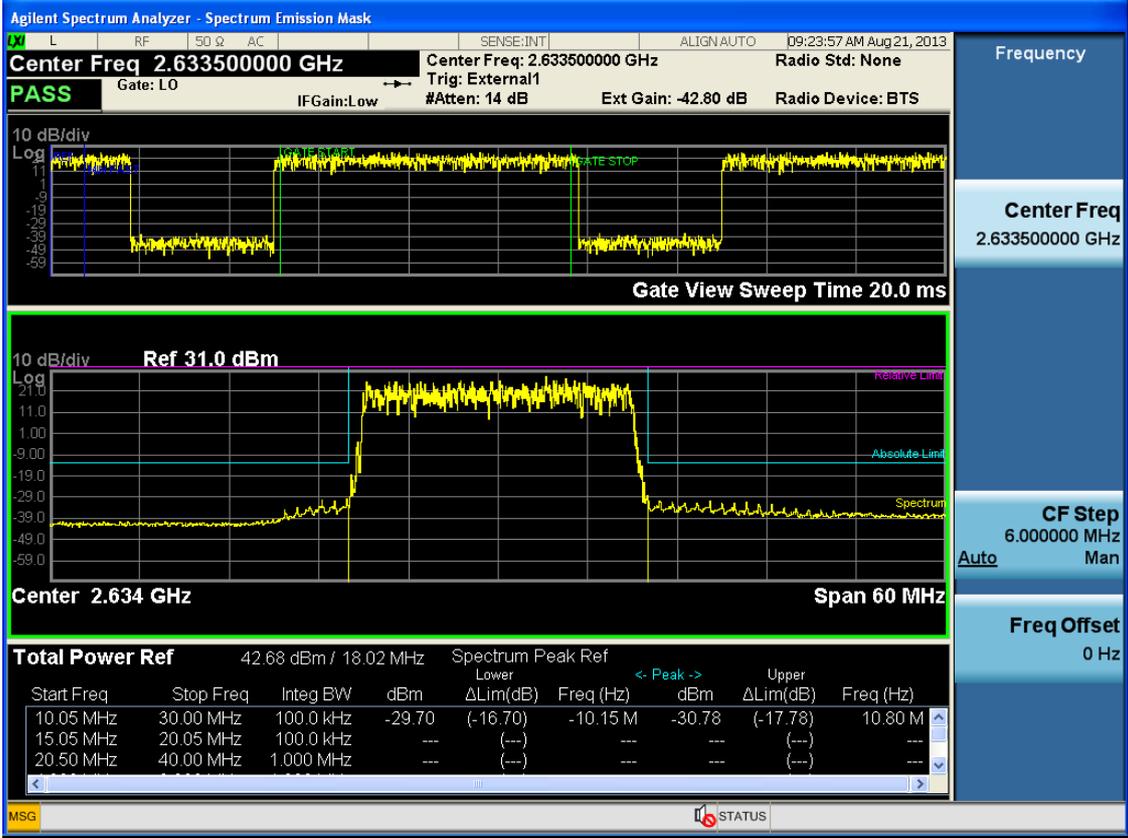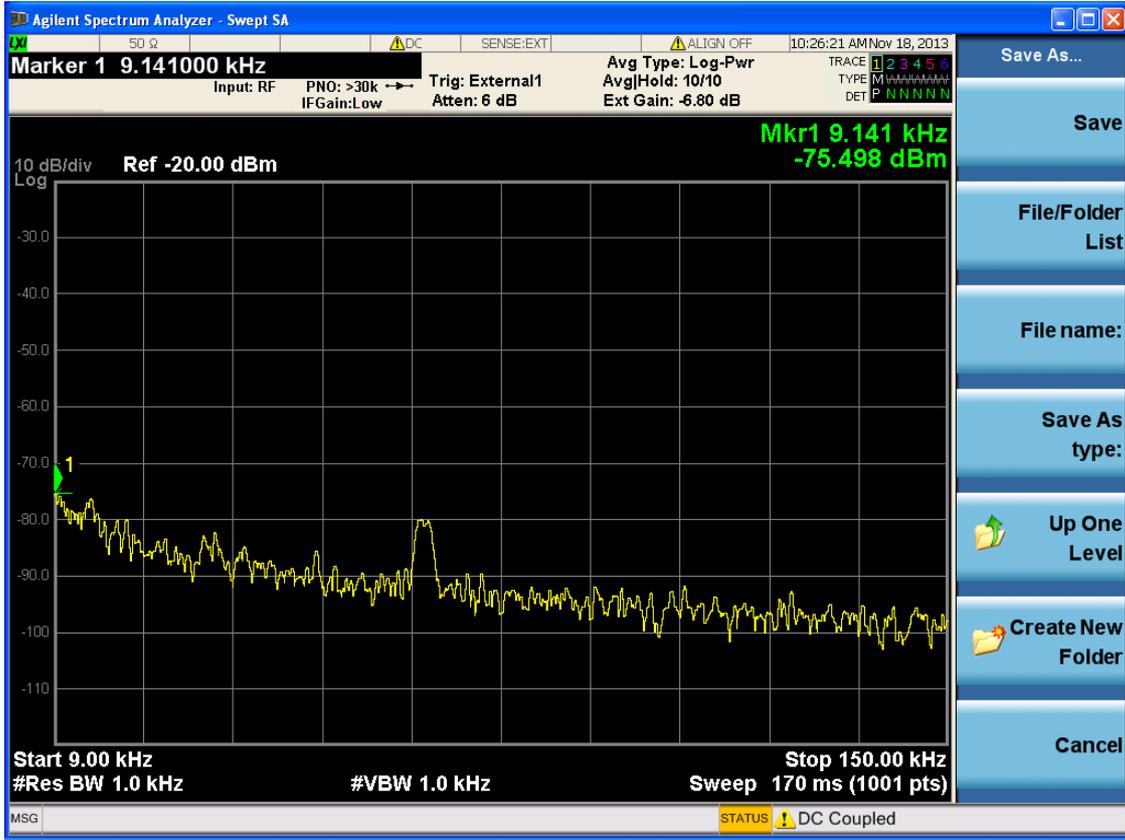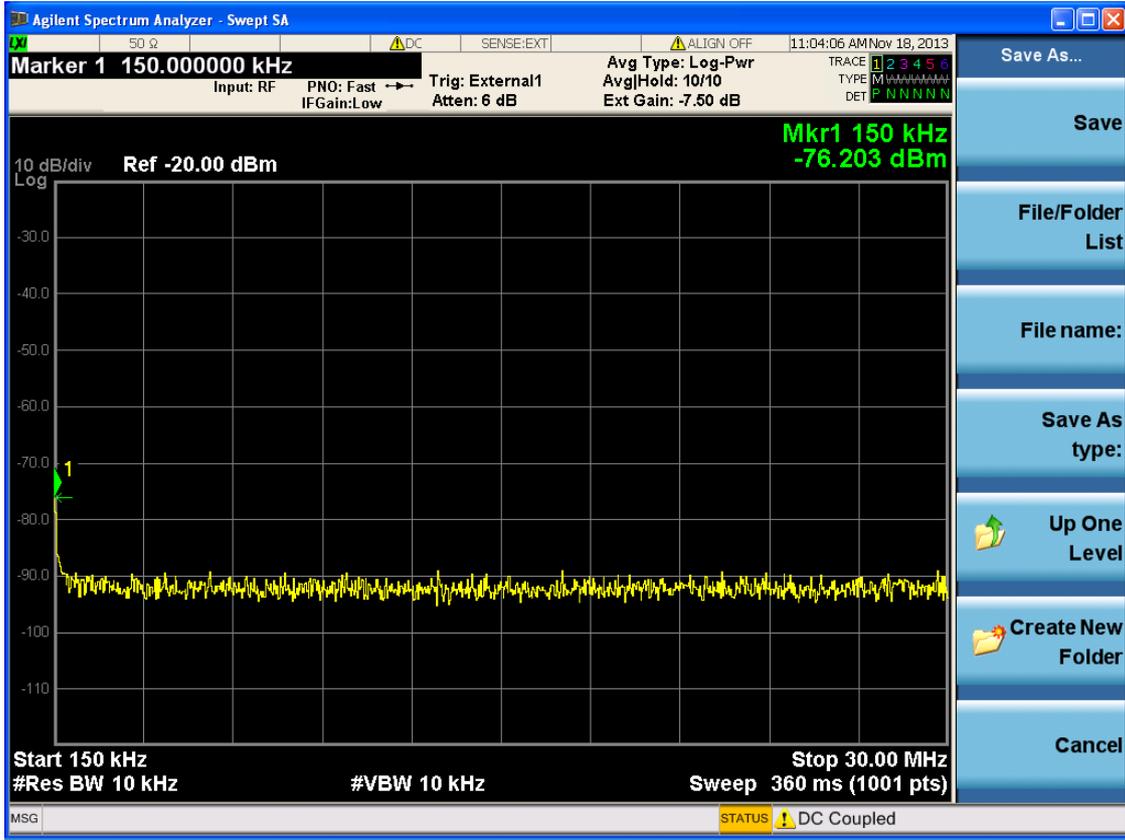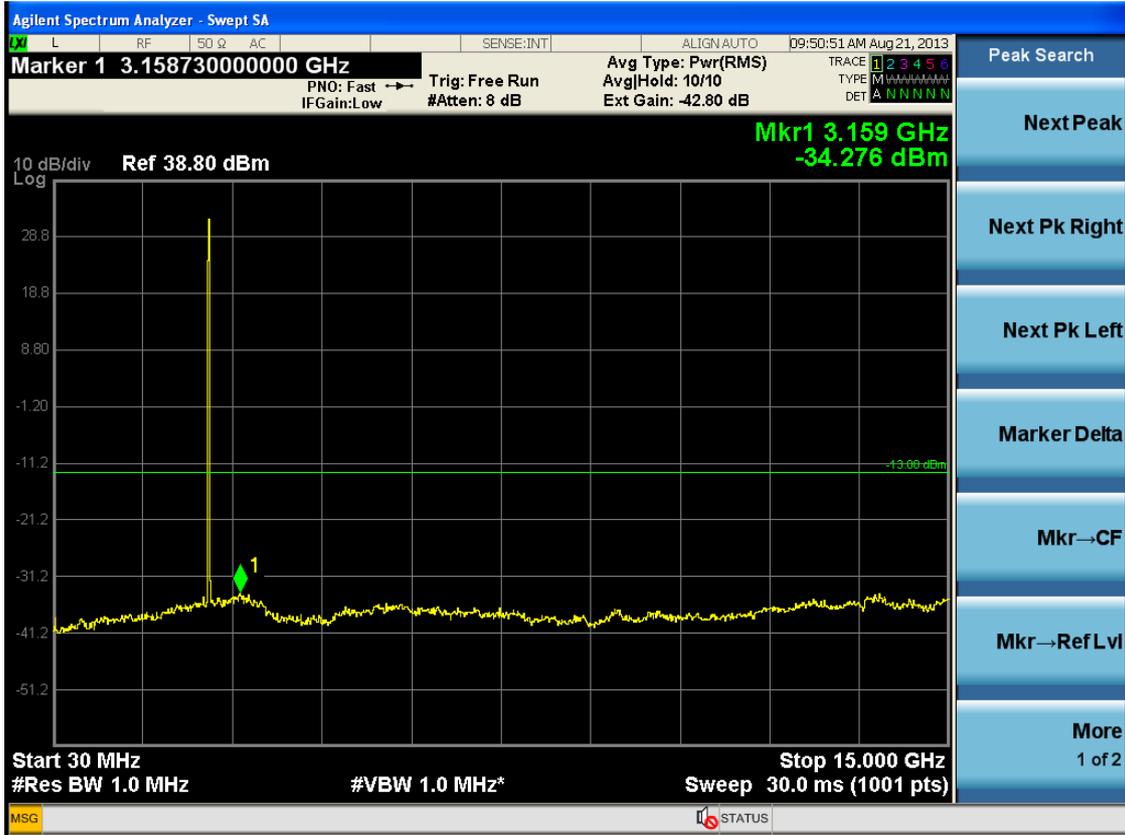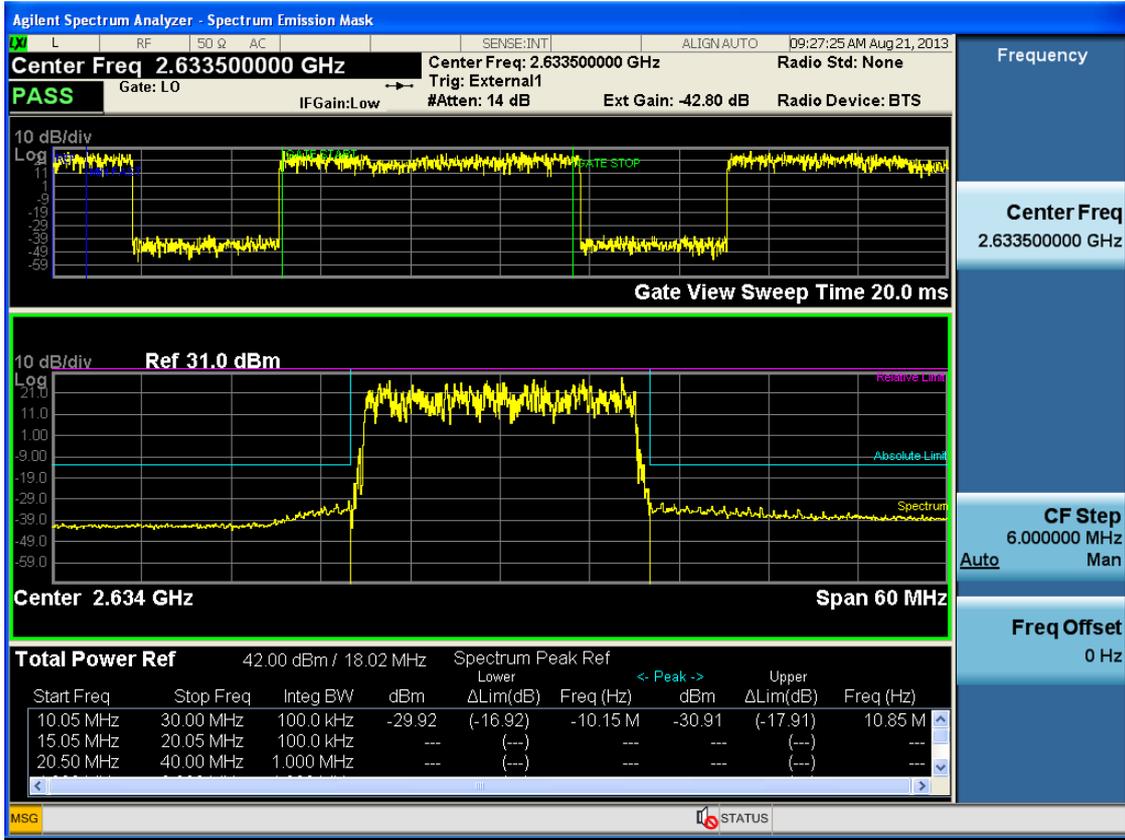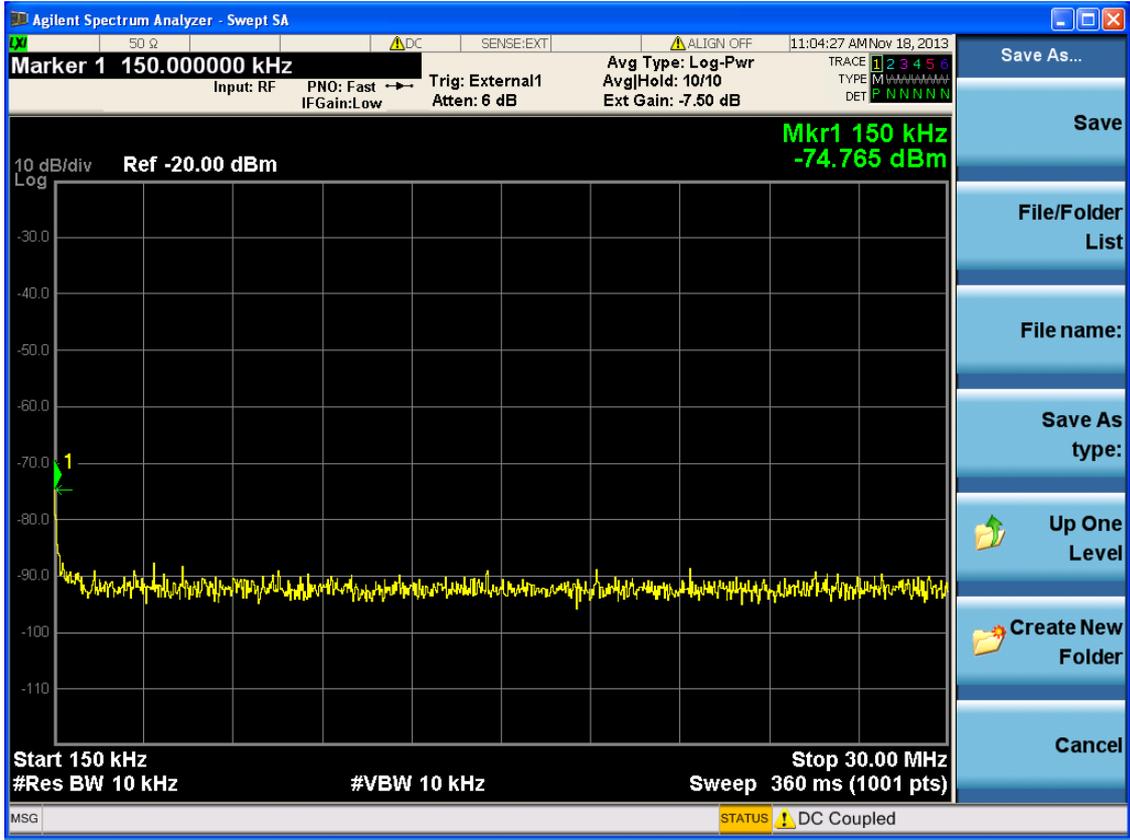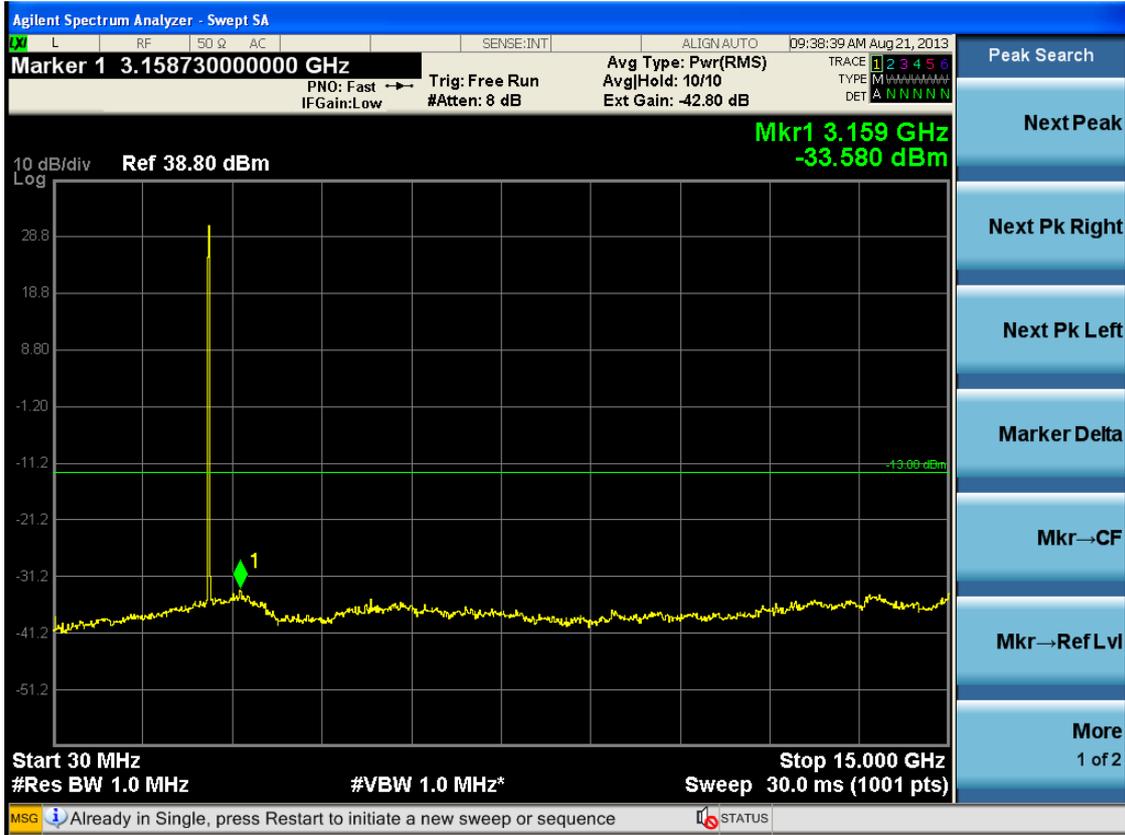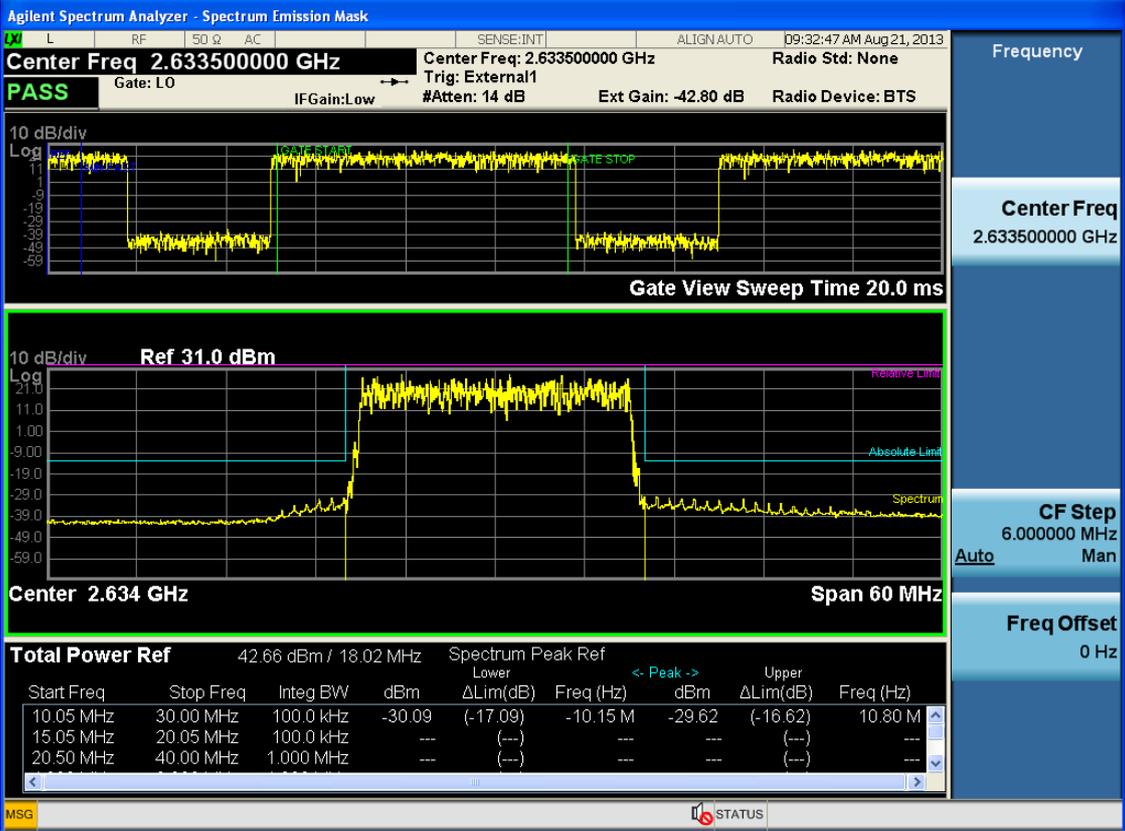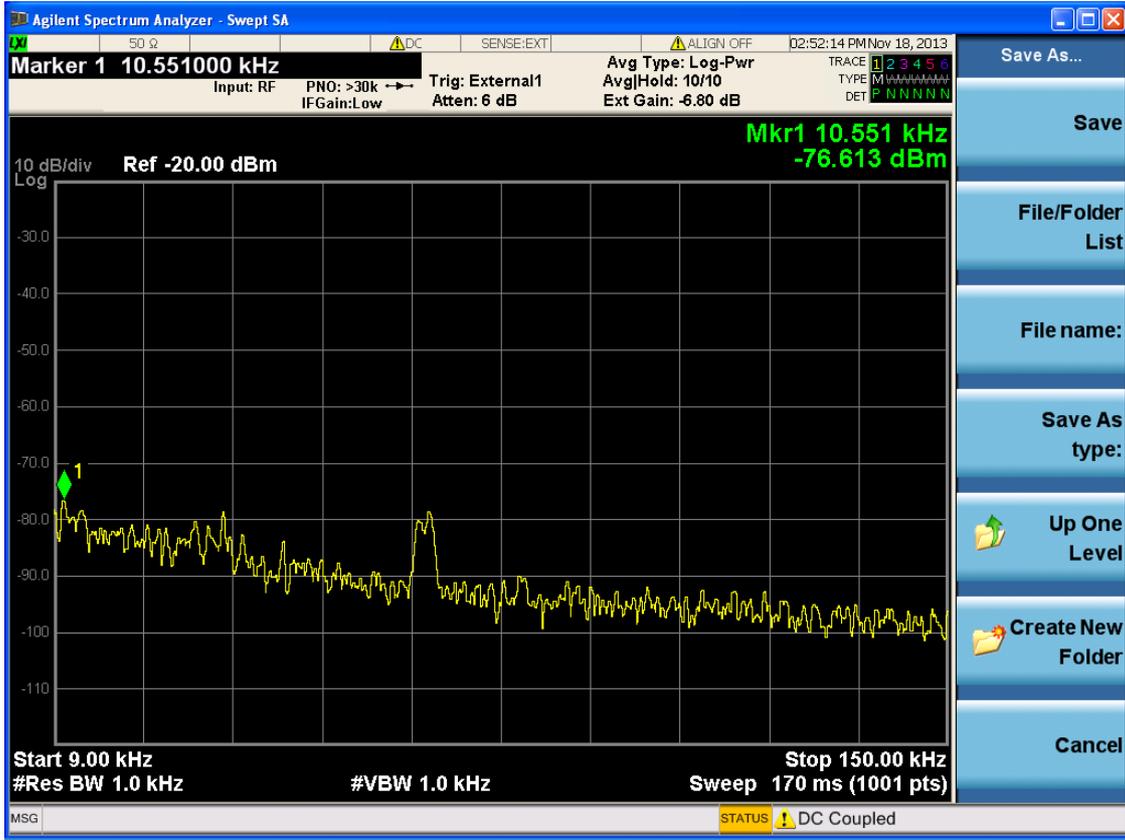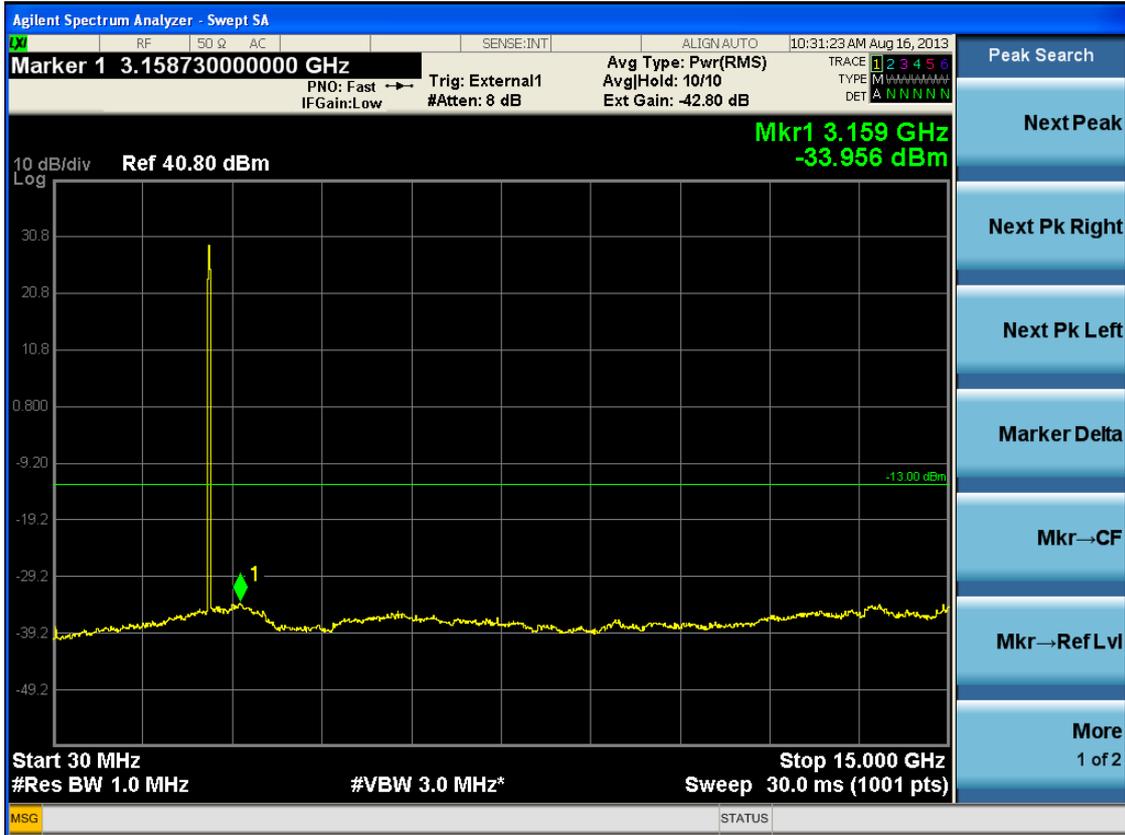20M-2653.5MHz-64QAM-Band Edge-Port4

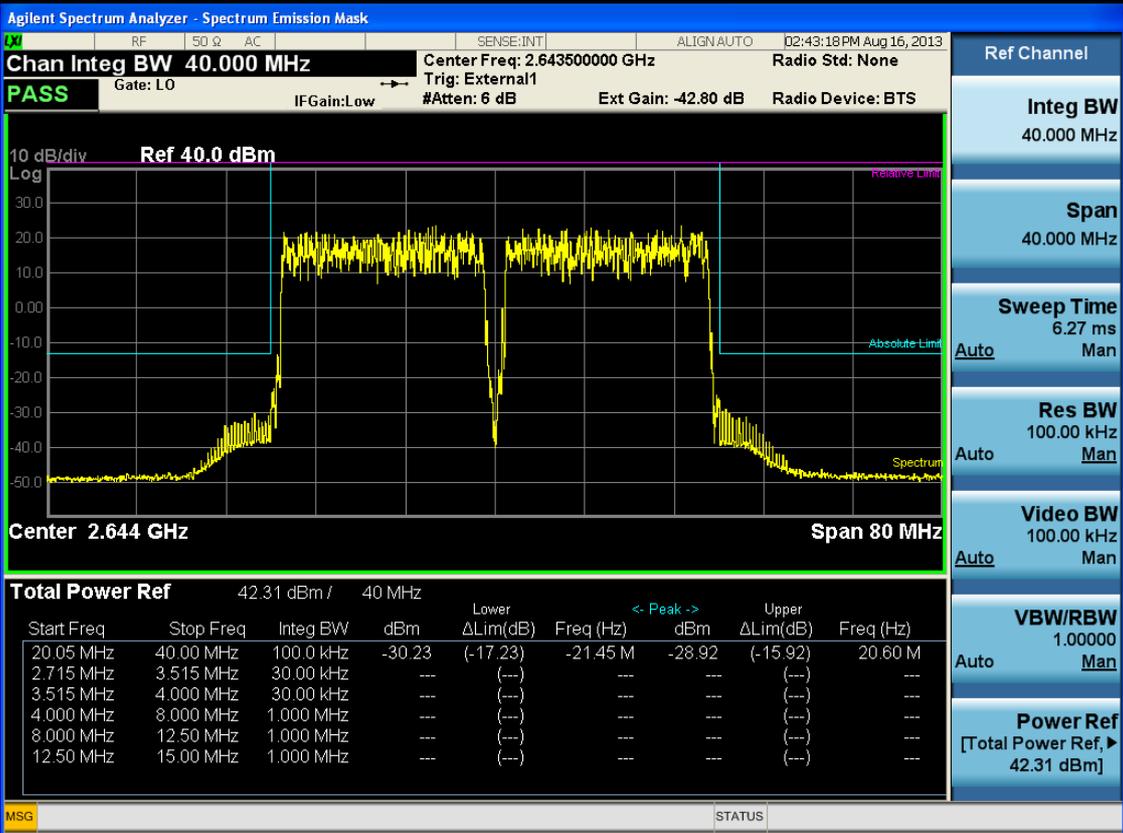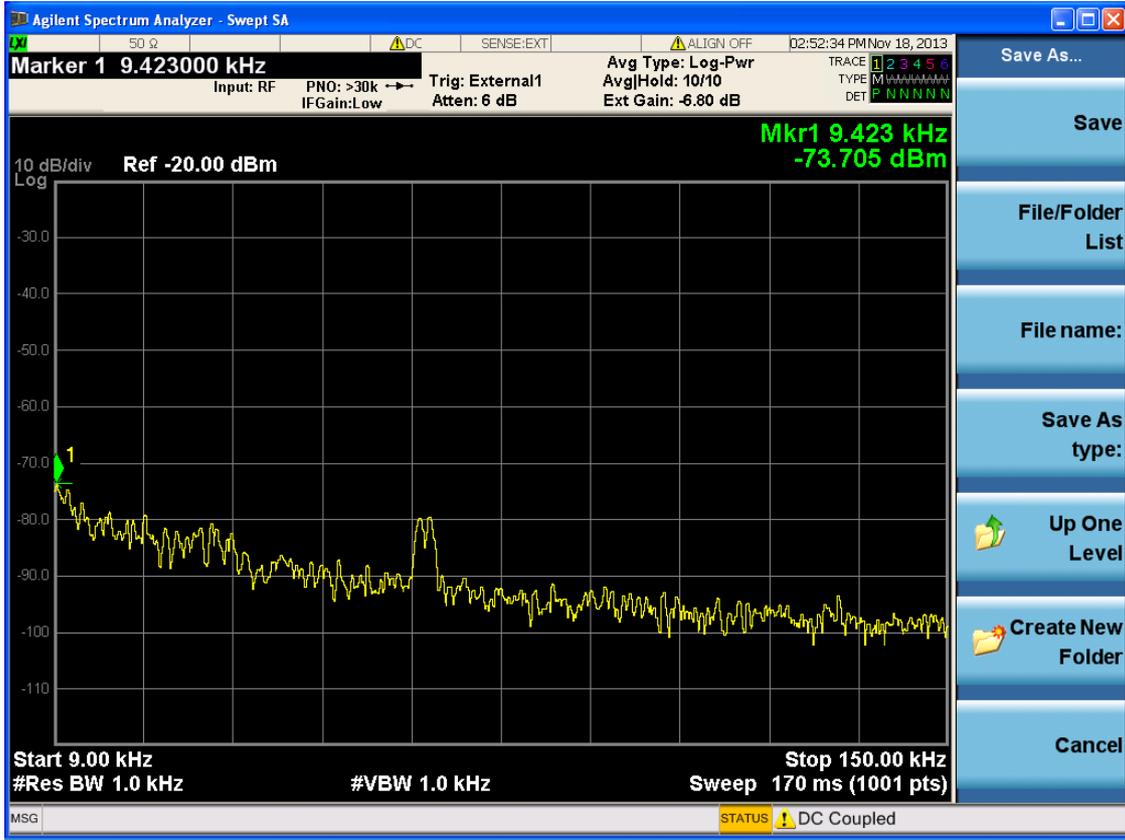20M+20M-2633.5+2653.5MHz -QPSK-9k-Port1

20M+20M-2633.5+2653.5MHz -QPSK-150k-Port1

20M+20M-2633.5+2653.5MHz -QPSK-30M-Port1

20M+20M-2633.5+2653.5MHz -QPSK-15G-Port1

**Agilent Spectrum Analyzer - Spectrum Emission Mask**

| | RF | 50 Ω | AC | | SENSE:INT | ALIGN AUTO | 02:43:18 PM Aug 16, 2013 |

LXI

**Chan Integ BW  40.000 MHz**
Gate: LO

**PASS**
IFGain:Low

Center Freq: 2.643500000 GHz
Trig: External1
#Atten: 6 dB

Radio Std: None
Ext Gain: -42.80 dB
Radio Device: BTS

**Ref Channel**

**Integ BW**
40.000 MHz

**Span**
40.000 MHz

**Sweep Time**
6.27 ms
Auto        Man

**Res BW**
100.00 kHz
Auto        Man

**Video BW**
100.00 kHz
Auto        Man

**VBW/RBW**
1.00000
Auto        Man

**Power Ref**
[Total Power Ref, ▶
42.31 dBm]

10 dB/div    **Ref 40.0 dBm**
Log                                                                 Relative Limit
30.0
20.0
10.0
0.00
-10.0                                                               Absolute Limit
-20.0
-30.0
-40.0                                                               Spectrum
-50.0

**Center  2.644 GHz**                                    **Span 80 MHz**

**Total Power Ref**        42.31 dBm /    40 MHz

| | | | | Lower | | <- Peak -> | Upper | |
|---|---|---|---|---|---|---|---|---|
| Start Freq | Stop Freq | Integ BW | dBm | ΔLim(dB) | Freq (Hz) | dBm | ΔLim(dB) | Freq (Hz) |
| 20.05 MHz | 40.00 MHz | 100.0 kHz | -30.23 | (-17.23) | -21.45 M | -28.92 | (-15.92) | 20.60 M |
| 2.715 MHz | 3.515 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | --- |
| 3.515 MHz | 4.000 MHz | 30.00 kHz | --- | (---) | --- | --- | (---) | --- |
| 4.000 MHz | 8.000 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | --- |
| 8.000 MHz | 12.50 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | --- |
| 12.50 MHz | 15.00 MHz | 1.000 MHz | --- | (---) | --- | --- | (---) | --- |

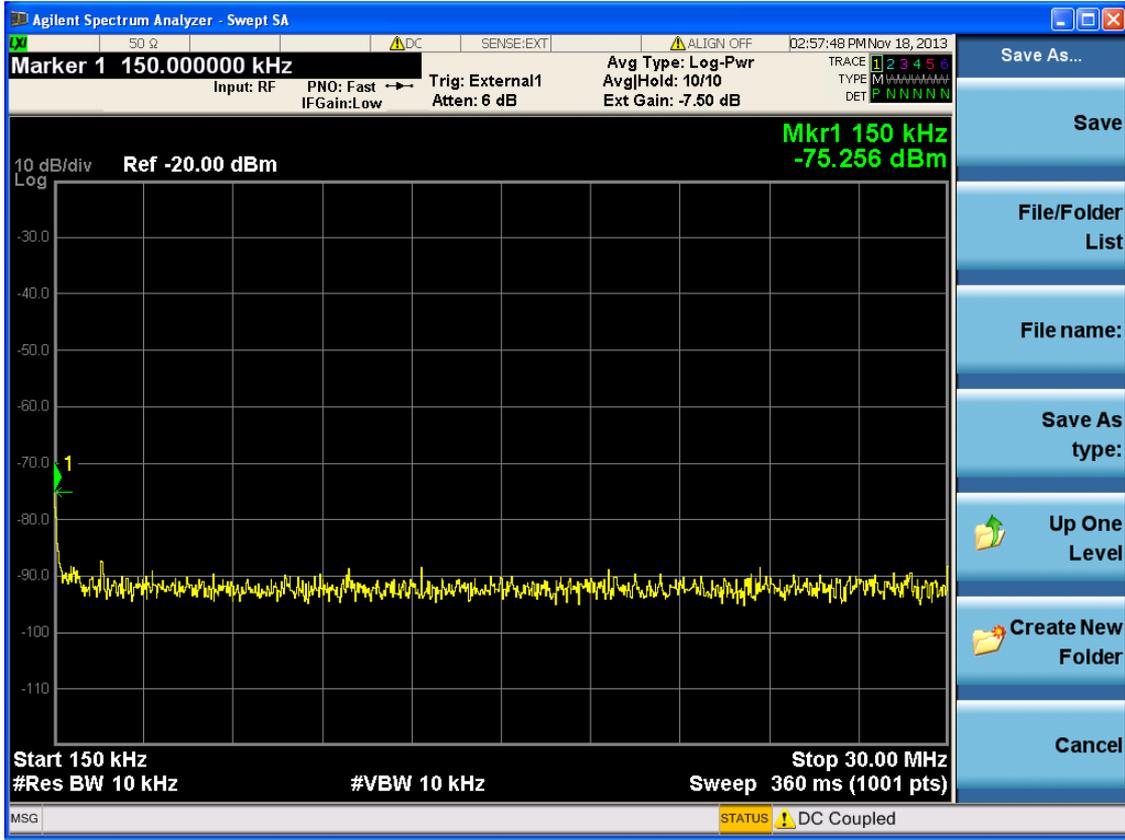MSG                                                    STATUS

20M+20M-2633.5+2653.5MHz-QPSK-Band Edge-Port1

20M+20M-2633.5+2653.5MHz -16QAM-9k-Port1

20M+20M-2633.5+2653.5MHz -16QAM-150k-Port1

20M+20M-2633.5+2653.5MHz -16QAM-30M-Port1

20M+20M-2633.5+2653.5MHz -16QAM -15G-Port1