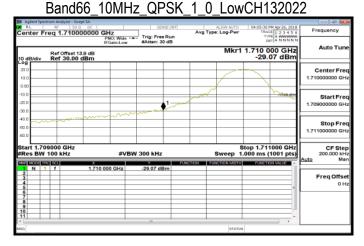


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# Band66\_5MHz\_QPSK\_25\_0\_HighCH132647

| M Agilent Spectrum A  |                                 |              |                                 |   |                                 |
|---|---------------------------------|--------------|---------------------------------|---|---------------------------------|
| Center Freq   | 1.780000000 GHz                 | SENSE:INT    | ALIGN AUTO<br>Avg Type: Log-Pwr | 04:33:30 PM Apr 26, 2018<br>TRACE 1 2 3 4 5 6 | Frequency                       |
| 10 dB/div Re  | f Offset 13.9 dB<br>f 30.00 dBm |              | Mkr1                            | 1.780 000 GHz<br>-27.44 dBm                   | Auto Tune                       |
| 20.0<br>10.0  |                                 | ~            |                                 |   | Center Free<br>1.780000000 GH:  |
| -10.0   |                                 |              |                                 | -13(0:00                                      | Start Fre<br>1.779000000 GH     |
| 40.0<br>-50.0<br>-60.0  |                                 |              |                                 |   | Stop Fre<br>1.781000000 GF      |
| Start 1.77900<br>#Res BW 51   | KHZ                             | #VBW 150 kHz |                                 | Stop 1.781000 GHz<br>.000 ms (1001 pts)       | CF Ste<br>200.000 kH<br>Auto Ma |
| All     N     1     f       2     3     - |                                 |              |                                 |   | Freq Offse<br>0 H               |
| usg   |                                 |              | STATU                           | s   | I                               |



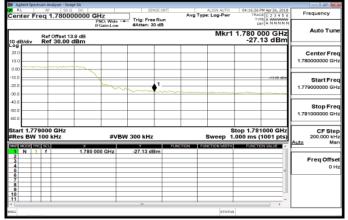
# Band66\_10MHz\_QPSK\_1\_49\_HighCH132622

|  | ectrum An  | alyzer - Swep        |           |  |           |         |          |                           |                         |                       |        | -   #                         |
|--|--|----------------------|-----------|--|-----------|---------|----------|---------------------------|-------------------------|-----------------------|--------|-------------------------------|
| Center F   | Freq 1   | .78000               | 0000 GH   | z                                      |           | ISE:INT | Avg Ty   | ALIGN AUTO<br>pe: Log-Pwi | TRAC                    | M Apr 26, 2018        |        | quency                        |
| 10 dB/div  | Ref<br>Ref   | Offset 13<br>30.00 c | 9 dB      | VO:Wide *<br>Sain:Low                  | #Atten: 3 |         |          | Mkr                       | 1 1.780 0               | 00 GHz<br>45 dBm      |        | Auto Tune                     |
| 20.0<br>10.0                                       |  | /                    | ~         |  |           |         |          |                           |                         |                       |        | enter Freq<br>000000 GHz      |
| -10.0<br>-20.0<br>-30.0                            | en de la companya de |                      |           | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | m         | 1-      |          |                           |                         | -10.00 (De            |        | Start Freq<br>000000 GHz      |
| -40.0<br>-50.0<br>-60.0                            | _  |                      |           |  |           |         |          |                           | ~~~~~                   |                       |        | Stop Freq                     |
| Start 1.7<br>#Res BW                               | 100  |                      | ×         | #VB                                    | W 300 kHz | FUE     | ICTION F | Sweep                     | Stop 1.78<br>1.000 ms ( | 1000 GHz<br>1001 pts) | Auto 2 | CF Step<br>200.000 kHz<br>Man |
| 1 N<br>2 3<br>4 5<br>6 6<br>7 8<br>9 9<br>10<br>11 | 1 f  |                      | 1.780 000 | 0 GHz                                  | -26.45 dE |         |          |                           |                         |                       | F      | req Offset<br>0 Hz            |
| 1 · · · · · · · · · · · · · · · · · · ·            |  |                      |           |  | 181       |         |          |                           |                         | - + ·                 |        |                               |
| MSG  |  |                      |           |  |           |         |          | STAT                      | าปร                     |                       |        |                               |
| _  |  |                      |           |  |           |         |          |                           |                         |                       |        |                               |

# Band66 10MHz QPSK 50 0 LowCH132022

| Agilent Spectrum Anal         | yzer - Swept SA |                    | SENSE:        | 1.T      | ALIGN AUTO     | 04:08:47 PM /              | ur 16 - 2018 |                              |
|-------------------------------|-----------------|--------------------|---------------|----------|----------------|----------------------------|--------------|------------------------------|
| enter Freq 1.                 |                 | GHz<br>PNO: Wide - |               | Ava      | Type: Log-Pwr  | TRACE                      | 23456        | Frequency                    |
| Bef                           | ffset 13.9 dB   | IFGain:Low         | #Atten: 30 dE | 3        | Mkr1           | 1.710 00                   | 0 GHz        | Auto Tu                      |
|                               | 30.00 dBm       |                    |               |          |                | -29.63                     | dBm          |                              |
| 20.0                          |                 | _                  |               |          |                |                            |              | Center Fr                    |
| 10.0                          |                 | _                  |               |          |                |                            |              | 1.710000000 G                |
| 0.00                          |                 |                    |               |          |                |                            |              |                              |
| 10.0                          |                 | -                  | + +           |          |                |                            | -10:00 (Dr)  | Start Fr                     |
| 20.0                          |                 |                    | - d1          | mm       | ~1             |                            |              | 1.709000000 0                |
| 90.0                          |                 |                    |               |          |                |                            |              |                              |
| 0.0                           |                 | -                  |               |          |                |                            |              | Stop Fr                      |
| 50.0                          |                 |                    |               |          |                |                            |              | 1.711000000 0                |
|                               |                 |                    |               |          |                |                            |              |                              |
| tart 1.709000<br>Res BW 100 k |                 | #VB                | W 300 kHz     |          |                | Stop 1.7110<br>.000 ms (10 | 01 pts)      | CF St<br>200.000 k<br>Auto N |
| N 1 1                         | ×<br>1.710      | 000 GHz            | -29,63 dBm    | FUNCTION | FUNCTION WIDTH | FUNCTION                   | VALUE A      |                              |
| 2                             |                 |                    |               |          |                |                            | _            | Freq Off                     |
| 4 5                           |                 |                    |               |          |                |                            | _            | 0                            |
| 6                             |                 |                    |               |          |                |                            |              |                              |
| 8 9                           |                 | -                  |               |          |                |                            | _            |                              |
| 10                            |                 |                    |               |          |                |                            | _            |                              |
|                               |                 |                    |               |          | -              | -                          | •            |                              |
| 96                            |                 |                    |               |          | STATU          | 5                          |              |                              |

# Band66\_10MHz\_QPSK\_50\_0\_HighCH132622



# Band66\_15MHz\_QPSK\_1\_0\_LowCH132047

| 🎉 Agilent Spectrum Analyzer - Swept SA   |   |   |   |                                    |
|--|---|---|---|------------------------------------|
| Center Freg 1.710000000  | GHZ   | Avg Type: Log-Pwr                       | 03:52:21 PM Apr 26, 2018<br>TRACE 1 2 3 4 5 6 | Frequency                          |
| Ref Offset 13.9 dB   | PNO: Wide +++ Trig: Free Ri<br>IFGain:Low #Atten: 30 d  | в                                       | DET A NNNNN<br>11.710 000 GHz<br>-27.51 dBm   | Auto Tune                          |
| 10 dB/div Ref 30.00 dBm  |   |   |   | Center Freq<br>1.710000000 GHz     |
| -10.0  | 1   | and | -10.00 (Em                                    | Start Freq<br>1.709000000 GHz      |
| -60.0  | water and the second |   |   | Stop Freq<br>1.711000000 GHz       |
| Start 1.709000 GHz<br>#Res BW 200 kHz  | #VBW 620 kHz  | Sweep Sweep                             | Stop 1.711000 GHz<br>1.000 ms (1001 pts)      | CF Step<br>200.000 kHz<br>Auto Man |
| 1     N     1     f     1.71       2     - | 0 000 GHz -27.51 dBm  |   |   | Freq Offset<br>0 Hz                |
| 7<br>8<br>9<br>10<br>11  |   |   |   |                                    |
| MSG  |   | STATL                                   | is ,  | I                                  |

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# Band66\_15MHz\_QPSK\_1\_74\_HighCH132597

| M Agilent Spectrum Analyzer - Swept SA  |  |   |                                |
|---|--|---|--------------------------------|
| Center Freq 1.7800000   | C SENSE:INT<br>DOO GHZ<br>PNO: Wide Trig: Free Run | ALIGN AUTO 04:01:06 PM Apr 26,<br>Avg Type: Log-Pwr TRACE 1 2 3<br>TYPE A www<br>DBT A NN | 45.6 Frequency                 |
| Ref Offset 13.9 o<br>10 dB/div Ref 30.00 dB   | IFGain:Low #Atten: 30 dB                           | Mkr1 1.780 000 G<br>-28.52 dB   | Hz Auto Tune                   |
| 20.0  | <u> </u>   |   | Center Free<br>1.780000000 GHz |
| -10.0   | A CONTRACTOR OF CONTRACTOR                         |   | Start Free<br>1.779000000 GH:  |
| -40.0   |  |   | Stop Free<br>1.781000000 GH    |
| Start 1.779000 GHz<br>#Res BW 200 kHz   | #VBW 620 kHz                                       | Stop 1.781000 C<br>Sweep 1.000 ms (1001)  |                                |
| N     1     f       2     -     -       3     -     -       4     -     -       5     -     -       6     -     -       7     -     - | 1.780 000 GHz -28.52 dBm                           |   | Freq Offse                     |
| 8 9<br>9 10 11  |  | STATUS  | ÷                              |

| Bef Offset 133 dB     MKF1 1.710 000 GHz     Center Freq       0 diddy     R*3 0.00 dBm     -29.37 dBm     Center Freq       0 diddy     R*3 0.00 dBm     -29.37 dBm     Center Freq       10 diddy     R*3 0.00 dBm     -29.37 dBm     Center Freq       10 diddy     R*3 0.00 dBm     -29.37 dBm     Center Freq       10 diddy     R*3 0.00 dBm     -29.37 dBm     Start Freq       10 diddy     R*3 0.00 dBm     -29.37 dBm     Start Freq       10 diddy     R*3 0.00 dBm     -29.37 dBm     Start Freq       10 diddy     R*3 0.00 dBm     -29.37 dBm     Start Freq       11 diddy     R*3 0.00 dBm     -29.37 dBm     -29.37 dBm       12 diddy     R*3 0.00 dBm     -29.37 dBm     -29.37 dBm       13 diddy     1 f     -29.37 dBm     -29.37 dBm     -29.37 dBm       11 diddy     -29.37 dBm     -29.37 dBm     -29.37 dBm     -29.37 dBm       11 diddy     -29.37 dBm     -29.37 dBm     -29.37 dBm     -29.37 dBm     -29.37 dBm       11 diddy     -29.37 dBm     -29.37 dBm     -29.37 dBm   | Agilent Spectrum Analyzer - Swept SA   |                               |                     |                            |
|---|--|-------------------------------|---------------------|----------------------------|
| Page Water     Trig: Free Rein     Trig: Free Rein     Trig: Free Rein     Auto Tune       0 dilddy     Ref Offset 13.9 dB     Mkr1 1.70000 GHz     -29.37 dBm     Center Free     1.7000000 GHz       10 dilddy     Ref Offset 13.9 dB     Mkr1 1.71000 GHz     -29.37 dBm     Center Free     1.7000000 GHz     Center Free     1.7000000 GHz     Start Free     1.7000000 GHz     Stop Free     1.7100000 GHz     Center Free     1.7100000 GHz     Stop Free     Stop Free     1.7100000 GHz     Center Free     1.71000000 GHz     Center Free     1.7100000 GHz     Cente   |  | ) GHz                         | Ave Type: Log-Pwr T | RACE 1 2 2 4 5 6 Frequency |
| Log<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20   | Ref Offset 13.9 dB   | PNO: Wide ++++ Trig: Free Run | Mkr1 1.710          | 000 GHz Auto Tune          |
| 30 <  | 20.0<br>10.0   |                               |                     |                            |
| Start 1.709000 GHz     #VBW 620 kHz     Stop 1.711000 GHz     CF Stap<br>1.71100000 GHz       N     1   | -20.0  | 1                             |                     | Start Freq                 |
| #Res BW 200 kHz     #VBW 620 kHz     Sweep 1.000 ms (1001 pts)     Autor Mail     Freq Offset     O 100 to 100 | -50.0  |                               |                     |                            |
| N     1     f     1.710.000.GHz     -29.37 dBm     Freq.0ffset     Offset   | Start 1.709000 GHz<br>#Res BW 200 kHz  |                               | Sweep 1.000 m       | (1001 pts) 200.000 kHz     |
|   | N     1     f     1.71       2     3     3     3     4       5     5     5     5     5       6     7 | -29.37 dBm                    |                     |                            |
|   | NSG ST   |                               | STATUS              | •                          |

# Band66\_15MHz\_QPSK\_75\_0\_LowCH132047

# Band66\_15MHz\_QPSK\_75\_0\_HighCH132597

| Agilent Spectrum Ar                      |                                 |                    |              |                          |  |                                    |
|--|---------------------------------|--------------------|--------------|--------------------------|--|------------------------------------|
| Center Freq                              | 1.780000000 GH                  |                    | Avg Type     | ALIGN AUTO<br>E: Log-Pwr | 04:01:39 PN Apr 26, 2018<br>TRACE 1 2 3 4 5 0<br>TYPE A WWWW<br>DET A NNNN N | Frequency                          |
| 10 dB/div Ref                            | r Offset 13.9 dB<br>f 30.00 dBm | ain:Low #Atten: 30 | dB           | Mkr1                     | 1.780 000 GHz<br>-26.03 dBm  | Auto Tune                          |
| 20.0<br>10.0                             | ~~~                             |                    |              |                          |  | Center Freq<br>1.780000000 GHz     |
| -10.0<br>-20.0<br>-30.0                  |                                 | ******             | 1            |                          | -10 00 000   | Start Freq<br>1.779000000 GHz      |
| -40.0<br>-50.0<br>-60.0                  |                                 |                    |              |                          |  | Stop Free<br>1.781000000 GHz       |
| Start 1.779000<br>#Res BW 200            | kHz                             | #VBW 620 kHz       | FUNCTION FUI | Sweep 1.                 | top 1.781000 GHz<br>000 ms (1001 pts)  | CF Step<br>200.000 kHz<br>Auto Mar |
| 1 N 1 f<br>2 4<br>4 5<br>6 6<br>7 8<br>9 | 1.780 000                       | -26.03 dB          |              |                          |  | Freq Offset<br>0 Hz                |
| 10<br>11<br>•                            |                                 |                    |              | STATUS                   | •  |                                    |
|  |                                 |                    |              | STATUS                   |  |                                    |

# Band66\_20MHz\_QPSK\_1\_0\_LowCH132072



# Band66\_20MHz\_QPSK\_1\_99\_HighCH132572



## Band66 20MHz QPSK 100 0 LowCH132072

|   | ectrum Analyze |                         |                        |           |      |          |                       |           |                       |                                    |
|---|----------------|-------------------------|------------------------|-----------|------|----------|-----------------------|-----------|-----------------------|------------------------------------|
| Center F                                      | req 1.7        | 50 0 DC<br>100000000 GH | z                      |           | Run  | Avg Type | ALIGN AUTO<br>Log-Pwr | TRAC      | PM Apr 26, 2018       | Frequency                          |
| 10 dB/div                                     |                |                         | ¥O: Fast ↔<br>Jain:Low | #Atten: 3 | 0 dB |          | Mkr1                  | 1.710 0   | 00 GHz<br>54 dBm      | Auto Tune                          |
| 20.0<br>10.0                                  |                |                         |                        |           |      |          |                       |           |                       | Center Freq<br>1.710000000 GHz     |
| -10.0   |                |                         |                        |           | 1    |          | mant                  | -         | -10 (D (De)           | Start Freq<br>1.709000000 GHz      |
| -40.0<br>-50.0<br>-60.0                       |                |                         |                        |           |      |          |                       |           |                       | Stop Freq<br>1.711000000 GHz       |
| Start 1.7<br>#Res BW                          |                |                         | #VBV                   | 1.0 MHz   | FIN  |          |                       | .000 ms ( | 1000 GHz<br>1001 pts) | CF Step<br>200.000 kHz<br>Auto Man |
| 1 N<br>2 3<br>3 4<br>5 6<br>7 8<br>9 10<br>10 |                | 1.710 000               | D GHz                  | -25.54 dE |      |          |                       |           |                       | Freq Offset<br>0 Hz                |
| MSG   |                |                         |                        |           |      |          | STATU                 | s         |                       |                                    |

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# Band66\_20MHz\_QPSK\_100\_0\_HighCH132572

| 🛤 Agilent Spectrum Analyzer - Swept   |  |  | - Ø 🕰                              |
|---------------------------------------|--|--|------------------------------------|
| Center Freg 1.780000                  | DC SENSE:INT   | ALIGN AUTO 03:45:57 PM Apr 26, 2018<br>Avg Type: Log-Pwr TRACE 1 2 3 4 5 6 | Frequency                          |
| Ref Offset 13.9                       | PNO: Fast ++- Trig: Free Run<br>IFGain:Low #Atten: 30 dB | Mkr1 1.780 000 GHz<br>-24.19 dBm   | Auto Tune                          |
|                                       |  |  | Center Freq<br>1.780000000 GHz     |
| -10.0                                 | 1<br>1   | -1300 (En  | Start Freq<br>1.779000000 GHz      |
| -40.0                                 |  |  | Stop Freq<br>1.781000000 GHz       |
| Start 1.779000 GHz<br>#Res BW 300 kHz | #VBW 1.0 MHz   | Stop 1.781000 GHz<br>Sweep 1.000 ms (1001 pts)                             | CF Step<br>200.000 kHz<br>Auto Man |
| 1 N 1 f<br>2 3<br>3 4<br>5            | 1.780 000 GHz -24.19 dBm                                 |  | Freq Offset<br>0 Hz                |
| 6<br>7<br>8<br>9                      |  |  |                                    |

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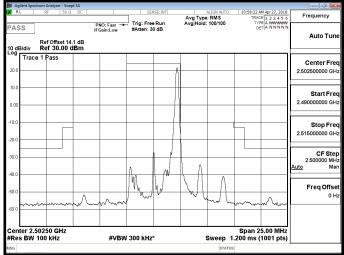


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### Emission Mask Band 7 QPSK 5M RB1,0

| PASS PWC: Fast → Trig: Free Run Avg Type: RMS Tright Avg Way Hold: 10.0/100 Tright Avg Way Hold   |             |        | um Analyzer - Swe | pt SA |      |                            |              |          |           |   |                       |                                |
|---|-------------|--------|-------------------|-------|------|----------------------------|--------------|----------|-----------|---|-----------------------|--------------------------------|
| PASS PASE PASE PASE PASE PASE PASE PASE   | (XI R       | L      | RF 50 Ω           | DC    |      |                            |              | Avg Type | e: RMS    | TRAC                                    | E123456               | Frequency                      |
| Trace 1 Pass Center Freq   200 Center 2:0250000 GHz   100 Center 7:eq   0.00 Center 2:0250000 GHz     100 Center 7:eq   0.00 Center 2:0250000 GHz     100 Center 7:eq   | 10 di       |        |                   | .1 dB |      | ,' Trig: Free<br>#Atten: 3 | eRun<br>0 dB | Avg Hold | : 100/100 | DE                                      | PEIA WWWWW<br>TANNNNN | Auto Tune                      |
| Out     Start Freq       0.00       | Ū           | Trace  | 1 Pass            |       |      | Λ                          |              |          |           |   |                       | Center Freq<br>2.502500000 GHz |
| 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200  |             |        |                   |       |      |                            |              |          |           |   |                       |                                |
| 2.50000 Mia<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0<br>40.0 |             |        |                   |       |      |                            |              |          |           |   |                       |                                |
| 50.0<br>60.0<br>60.0<br>Center 2.50250 GHz Span 25.00 MHz   |             |        |                   |       |      |                            |              |          |           |   |                       | 2.500000 MHz                   |
| Center 2.50250 GHz Span 25.00 MHz   | -50.0       |        | ~                 | M     | JV.  | V                          | r rv         | Luner.   | - march   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | man                   |                                |
|   | Cen         |        |                   |       |      |                            |              |          |           |   |                       |                                |
|   | #Re:<br>MSG | s BW 1 | 00 kHz            |       | #VBW | 300 kHz                    | •            |          |           |   | 1001 pts)             |                                |

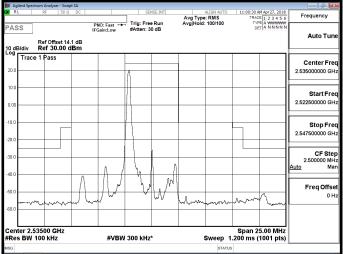
## Band 7 QPSK 5M RB1,24



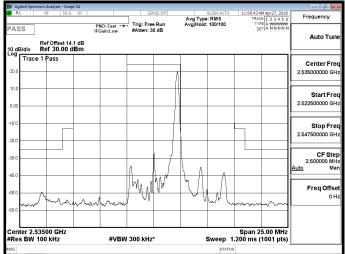
#### Band 7 QPSK 5M RB25,0

|                                       | f Offset 14.1 dB<br>ef 30.00 dBm | PNO: Fast ++ |          |     | Avg Type<br>Avg Hold: | ALIGN AUTO<br>2: RMS<br>2: 100/100 | TRAC | M Apr 27, 2018<br>E 1 2 3 4 5 6<br>E A <del>WWWW</del><br>T A N N N N N | Frequency<br>Auto Tune<br>Center Free   |
|---------------------------------------|----------------------------------|--------------|----------|-----|-----------------------|------------------------------------|------|---|---|
| 10 dB/div Re<br>Log Trace 1 f         | ef 30.00 dBm                     |              |          |     | Avg Hold:             | 100/100                            | DE   |   |   |
| 20.0 Trace 1 F                        | Pass                             |              |          |     |                       |                                    |      |   | Contor Fro                              |
| 10.0                                  |                                  |              |          |     |                       |                                    |      |   | 2.502500000 GH                          |
| 0.00                                  |                                  |              | man      | www |                       |                                    |      |   | Start Fre<br>2.49000000 GH              |
| -10.0                                 |                                  |              |          |     |                       |                                    |      |   | Stop Fre<br>2.515000000 GF              |
| -30.0                                 |                                  | mand         |          |     | 4                     |                                    |      |   | CF Ste<br>2.500000 Mi<br><u>Auto</u> Mi |
| -50.0                                 | mm                               |              |          |     | . www                 | www                                | www  | vrun  | Freq Offs<br>0 I                        |
| -60.0<br>Center 2.5025<br>#Res BW 100 |                                  | #VBW         | 300 kHz* |     |                       |                                    |      | 5.00 MHz  |   |

#### Band 7\_QPSK\_5M\_RB1,0



Band 7 QPSK 5M RB1,24



#### Band 7 QPSK 5M RB25,0

|                        | Dffset 14.1 dB<br>30.00 dBm | PNO: Fast +++ | Trig: Free<br>#Atten: 30 |     | Avg Type<br>Avg Hold: | RMS<br>100/100 | TRAC                   | M Apr 27, 2018<br>E 1 2 3 4 5 6<br>E A WWWWW | Frequency                             |
|------------------------|-----------------------------|---------------|--------------------------|-----|-----------------------|----------------|------------------------|--|---------------------------------------|
| Ref (<br>10 dB/div Ref | Dffset 14.1 dB<br>30.00 dBm |               |                          |     | Avginola.             | 100/100        |                        |  |                                       |
| Trace 1 Pa             |                             |               |                          |     |                       |                | DE                     | T A NNNN                                     | Auto Tun                              |
| 20.0                   | 155                         | -             |                          |     |                       |                |                        |  | Center Fre<br>2.535000000 G⊦          |
| 0.00                   |                             |               | m                        | mmy |                       |                |                        |  | Start Fre<br>2.522500000 GF           |
| 20.0                   |                             |               |                          |     |                       |                |                        |  | Stop Fre<br>2.547500000 Gi            |
| 0.0                    |                             | mund          |                          |     | hower                 | www.           |                        |  | CF Ste<br>2.500000 M<br><u>Auto</u> M |
| 50.0                   |                             |               |                          |     |                       | ~              | mann                   | Mun  | Freq Offs<br>0 I                      |
| Center 2.53500         |                             | #VBW          | 300 kHz*                 | ×   | ę                     | Sweep '        | Span 2:<br>1.200 ms (* | 5.00 MHz<br>1001 pts)                        |                                       |

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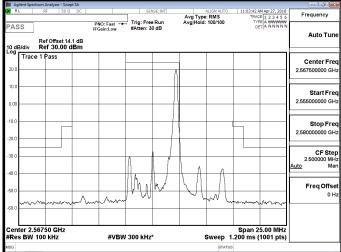


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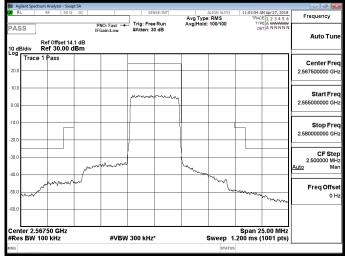
### Band 7 QPSK 5M RB1,0

|               |             |       | nalyzer - Sw |      |                         |                           |         |          |                      |   | - 0 ×                                      |
|---------------|-------------|-------|--------------|------|-------------------------|---------------------------|---------|----------|----------------------|---|--|
| <b>l,XI</b> R | L           | RF    | 50 \$        | 2 DC |                         | SEI                       | ISE:INT | Avg Typ  | ALIGN AUTO<br>e: RMS | 11:03:32 AM Apr 27, 2018<br>TRACE 1 2 3 4 5 6 | Frequency                                  |
| PA:           | SS<br>B/div |       | Offset 14    |      | PNO: Fast<br>IFGain:Low | ↓ Trig: Free<br>#Atten: 3 |         | Avg Hold | : 100/100            | DET A NNNN                                    | ·  |
| 20.0          | Trac        | e 1 P | ass          |      |                         | ٨                         |         |          |                      |   | Center Freq<br>2.567500000 GHz             |
| 10.0          |             |       |              |      |                         |                           |         |          |                      |   | Start Freq<br>2.555000000 GHz              |
| -10.0         |             |       |              |      |                         |                           |         |          |                      |   | Stop Free<br>2.580000000 GHz               |
| -30.0         | -           |       |              |      | Δ                       |                           | ٨       |          |                      |   | CF Step<br>2.500000 MHz<br><u>Auto</u> Mar |
| -50.0         | ~~~         | h     | more         | A    | w.l.                    | V                         | W       | lunn     | un                   | www.www.www.                                  | Freq Offset<br>0 Hz                        |
|               | iter 2.4    |       |              |      |                         |                           |         |          |                      | Span 25.00 MHz                                |  |
| #Re           | s BW        | 100   | KHZ          |      | #VBM                    | 300 kHz                   | •       |          | Sweep<br>STATE       | 1.200 ms (1001 pts)<br><sup>JS</sup>          | 1  |

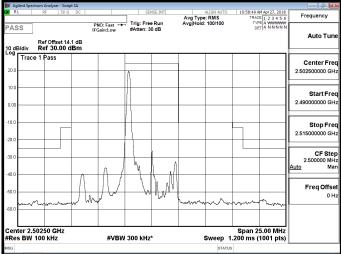
## Band 7 QPSK 5M RB1,24



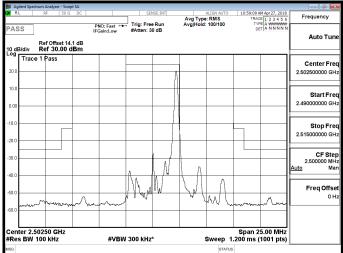
#### Band 7 QPSK 5M RB25.0



#### Band 7 16QAM 5M RB1,0



#### Band 7 16QAM 5M RB1,24



#### Band 7 16QAM 5M RB25,0

|              |                    | ım Analyzer         |      |         |                |               |           |         |                      |  |            |   |                                |
|--------------|--------------------|---------------------|------|---------|----------------|---------------|-----------|---------|----------------------|--|------------|---|--------------------------------|
| KI RI        |                    | RF                  | 50 Ω | DC      |                |               |           | NSE:INT | Avg Type<br>Avg Hold |  | TRAC       | M Apr 27, 2018<br>E 1 2 3 4 5 6<br>E A WWWW | Frequency                      |
| PAS          | _                  | Ref Offs<br>Ref 30. |      |         | PNO:<br>IFGair | Fast 🔸        | #Atten: 3 |         | Avginoid             | 100/100                                | DE         | A NNNN N                                    | Auto Tun                       |
| 20.0         | Trace              | 1 Pass              |      |         |                |               |           |         |                      |  |            |   | Center Fre<br>2.502500000 GH   |
| 10.0<br>0.00 |                    |                     |      |         |                |               | provide   | ~~~~    |                      |  |            |   | Start Fre<br>2.490000000 GF    |
| 10.0<br>20.0 |                    |                     |      |         |                |               |           |         |                      |  |            |   | Stop Fre<br>2.515000000 Gi     |
| 90.0<br>40.0 |                    |                     | ]    |         |                | ~~            |           |         |                      |  |            |   | CF Ste<br>2.500000 M<br>Auto M |
| 50.0         | www                | Maria               | w    | wal wal |                |               |           |         | ww                   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | www.       | hann  | Freq Offs<br>01                |
|              |                    | 1250 GH             | łz   |         |                | <i>4</i> 0/DW | 200 kHz   |         |                      |  | Span 2     | 5.00 MHz                                    |                                |
|              | ter 2.50<br>5 BW 1 |                     | 1z   |         |                | #VBW          | 300 kHz   | *       | :                    | Sweep                                  | 1.200 ms ( |   |                                |

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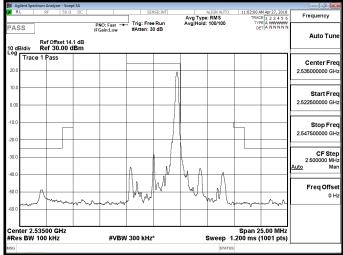


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## Band 7\_16QAM\_5M\_RB1,0

|                | nt Spectre | um Analyzer - Si   | vept SA |                            |                         |              |          |            |   | - # ×                                      |
|----------------|------------|--------------------|---------|----------------------------|-------------------------|--------------|----------|------------|---|--|
| CXI RL         |            | RF 50              | Ω DC    |                            | SEI                     | SE:INT       | Avg Type | ALIGN AUTO | 11:01:46 AM Apr 27, 2018<br>TRACE 1 2 3 4 5 6 | Frequency                                  |
| PASS           |            | Ref Offset '       | I4.1 dB | PNO: Fast ++<br>IFGain:Low | Trig: Free<br>#Atten: 3 | eRun<br>0 dB | Avg Hold | : 100/100  | DET A NNNN                                    |  |
| 00 -           |            | 1 Pass             |         |                            | ٨                       |              |          |            |   | Center Freq<br>2.535000000 GHz             |
| 10.0<br>0.00   |            |                    |         |                            |                         |              |          |            |   | Start Freq<br>2.522500000 GHz              |
| -10.0<br>-20.0 |            |                    | -       |                            |                         |              |          |            |   | Stop Freq<br>2.547500000 GHz               |
| -30.0          |            |                    |         |                            |                         |              |          |            |   | CF Step<br>2.500000 MHz<br><u>Auto</u> Man |
| -50.0          | ~~~~~      | m                  | A       | N WW                       | .W                      | WW           | hum      |            | m   | Freq Offset<br>0 Hz                        |
|                |            | 3500 GHz<br>00 kHz |         | #VBW                       | 300 kHz                 |              |          | Sweep 1    | Span 25.00 MHz<br>1.200 ms (1001 pts)         |  |
| MSG            |            |                    |         |                            |                         |              |          | STATU      | ,   | L  |

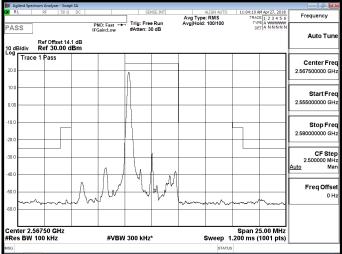
## Band 7 16QAM 5M RB1,24



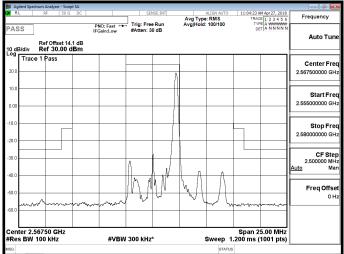
#### Band 7 16QAM 5M RB25.0

|                                | trum Analyzer - Swe          |       |                            |                         |   |         |            |                      |  | - @ <b>*</b>                           |
|--------------------------------|------------------------------|-------|----------------------------|-------------------------|---|---------|------------|----------------------|--|--|
| UW RL                          | RF 50 Ω                      | DC    |                            |                         | ISE:INT                                 | Avg Typ | ALIGN AUTO | TRAC                 | M Apr 27, 2018<br>E 1 2 3 4 5 6<br>E A WWWWW | Frequency                              |
| PASS                           | Ref Offset 14<br>Ref 30.00 d | .1 dB | PNO: Fast ++<br>IFGain:Low | Trig: Free<br>#Atten: 3 | 0 dB                                    | Avginoi | d: 100/100 | DE                   | ANNNN  | Auto Tun                               |
| 20.0 Trac                      | e 1 Pass                     |       |                            |                         |   |         |            |                      |  | Center Fre<br>2.535000000 GF           |
| 0.00                           |                              |       |                            | f                       | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |         |            |                      |  | Start Fre<br>2.522500000 Gi            |
| -10.0                          |                              |       |                            |                         |   |         |            |                      |  | Stop Fr<br>2.547500000 G               |
| -30.0                          |                              |       | mand                       |                         |   | hower   | ~          |                      |  | CF Ste<br>2.500000 Mi<br><u>Auto</u> M |
| -50.0                          | Nor marken                   | www   |                            |                         |   |         | - Marin    | h                    | anga-aaa                                     | Freq Offs                              |
| -60.0<br>Center 2.3<br>#Res BW | 53500 GHz                    |       | #\/BlA(                    | 300 kHz                 |   |         | Sween      | Span 2<br>1.200 ms ( | 5.00 MHz                                     |  |
| MSG                            |                              |       | .,                         | NIE                     |   |         | STATU      |                      | pts,   |  |

### Band 7 16QAM 5M RB1,0



#### Band 7 16QAM 5M RB1,24



#### Band 7 16QAM 5M RB25,0

| 50.0 DC   | PNO: Fast ↔<br>IFGain:Low | Trig: Free<br>#Atten: 3 |      | Avg Type<br>Avg Hold |     | TRAC                              | AM Apr 27, 2018<br>ET 1, 2, 3, 4, 5, 6<br>A WWWWW<br>ET A NNNNN | Auto Tur<br>Center Fre<br>2.567500000 GH  |
|-----------|---------------------------|-------------------------|------|----------------------|-----|-----------------------------------|---|---|
| 30.00 dBm |                           | #Atten: 3               | ) dB |                      |     | D                                 |   | Auto Tur<br>Center Fre<br>2.567500000 GH  |
| 155       |                           | m                       | many |                      |     |                                   |   | 2.567500000 GH  |
|           |                           | m                       | man  |                      |     |                                   |   | Otort Err   |
|           |                           | 1                       |      |                      |     |                                   |   | Start Fr<br>2.555000000 G   |
|           |                           |                         |      |                      |     |                                   |   | Stop Fr<br>2.58000000 G   |
|           | mmm                       |                         |      | hunger               |     |                                   |   | CF Sto<br>2.500000 M<br><u>Auto</u> M   |
| man       |                           |                         |      |                      |     | in the second                     | mm  | Freq Offs<br>0  |
| GHz       |                           |                         |      |                      |     |                                   |   |   |
|           |                           | GHz                     | GHZ  | GHZ                  | GHZ | GHz     #VBW 300 kHz*     Sweep 1 | CHZ Span 2  | GHz     #VEW 300 kHz*     Span 25.00 MHz       Hz     #VEW 300 kHz*     Sweep 1.200 ms (1001 pts) |

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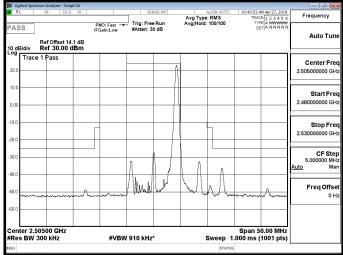


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### Band 7\_QPSK\_10M\_RB1,0

|                | ilent Spec      |       |                |      |    |     |                      |              |                         |         |          |                      |                       |                                   | - 0                                |
|----------------|-----------------|-------|----------------|------|----|-----|----------------------|--------------|-------------------------|---------|----------|----------------------|-----------------------|-----------------------------------|------------------------------------|
| (X) R          | L               | P     | F              | 50 Ω | DC |     |                      |              | SEI                     | ISE:INT | Avg Typ  | ALIGN AUTO<br>e: RMS | TRA                   | AM Apr 27, 2018<br>CE 1 2 3 4 5 6 | Frequency                          |
| PAS            | -               |       | fOffse<br>f30. |      |    | PN  | IO: Fast<br>Sain:Lov | , - <b>-</b> | Trig: Free<br>#Atten: 3 |         | Avg Hold | I: 100/100           | T)<br>E               | ET A NNNN                         | Auto Tune                          |
| Log<br>20.0    | Trace           | e 1 I | Pass           |      |    |     |                      | -            | 1                       |         |          |                      |                       |                                   | Center Freq<br>2.505000000 GHz     |
| 10.0           |                 |       |                |      |    |     |                      | ļ            |                         |         |          |                      |                       |                                   | Start Fred<br>2.480000000 GH:      |
| -10.0<br>-20.0 |                 |       |                |      |    |     |                      |              |                         |         |          | 1                    |                       |                                   | Stop Fred<br>2.530000000 GHz       |
| -30.0          |                 |       |                |      | ٨  |     | A                    |              |                         |         |          |                      |                       |                                   | CF Step<br>5.000000 MH<br>Auto Mar |
| -50.0          | ~~~~            |       | m              | -    | Д  | .,A | $\int$               | ۶            | Ŵ                       | ww      | www.     | h                    | marine and the second | *****                             | Freq Offse<br>0 H                  |
|                | ter 2.5<br>s BW |       |                | łz   |    |     | #\                   | ßW           | 910 kHz                 |         |          | Sweep                | Span :<br>1.000 ms    | 50.00 MHz                         |                                    |
| MSG            |                 |       |                |      |    |     |                      |              | • · • MIL               |         |          | STAT                 |                       | (/ p.o,                           | I                                  |

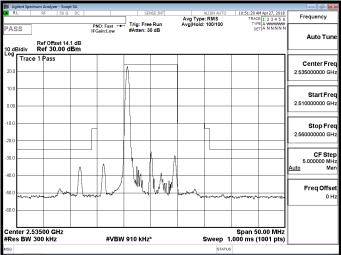
## Band 7 QPSK 10M RB1,49



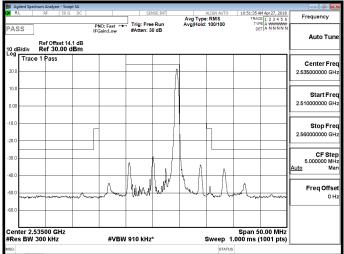
#### Band 7 QPSK 10M RB50,0

|                       | jilent Spe |        |  |      |      |           |                    |        |           |          |                  |        |        |         |  |      | - 0                         |
|-----------------------|------------|--------|--|------|------|-----------|--------------------|--------|-----------|----------|------------------|--------|--------|---------|--|------|-----------------------------|
| (XIR                  | L          | RF     |  | 50 Ω | DC   | _         |                    | _      |           | SE:INT   | Avg Ty<br>Avg Ho | pe: RI | N AUTO | TRA     | AM Apr 27, 2018<br>CE 1 2 3 4 5 6<br>PE A WWWW | F    | requency                    |
| PAS                   |            |        | Offse<br>30.0                            |      |      | PN<br>IFG | O: Fast<br>ain:Low |        | #Atten: 3 | 0 dB     | Avgino           | na. 10 | 0/100  | C       | A NNNNN  |      | Auto Tune                   |
| 20.0                  | Trac       | e 1 Pa | ass                                      |      |      |           |                    |        |           |          |                  | _      |        |         |  |      | Center Free<br>5000000 GH   |
| 10.0<br>0.00          |            |        |  |      |      |           |                    |        | hum       | -source) |                  |        |        |         |  | 2.48 | Start Fre                   |
| -10.0<br>-20.0        |            |        |  |      |      | Г         |                    |        |           |          |                  | 7      |        |         |  | 2.53 | Stop Fre<br>0000000 GH      |
| -30.0                 |            |        |  |      | priu | -         | and Walnut         | , www. |           |          | hourses          |        | and    |         |  | Auto | CF Ste<br>5.000000 MH<br>Ma |
| -50.0                 | ww.ws      | -      | an a | ممہر | n)   |           |                    |        |           |          |                  | _      | »ر<br> | ana man | Muthanna                                       |      | Freq Offse<br>0 H           |
|                       | ter 2.     |        |  | Iz   |      |           | -40.0              |        | 910 kHz   |          |                  |        |        |         | 50.00 MHz                                      |      |                             |
| #Re<br><sup>MSG</sup> | s BW       | 3001   | ιΠZ                                      |      |      |           | #V                 | D44    | 910 KHZ   |          |                  | SW     | STATUS |         | (1001 pts)                                     |      |                             |

### Band 7 QPSK 10M RB1,0



## Band 7 QPSK 10M RB1,49



#### Band 7 QPSK 10M RB50,0

|                | gilent Spe |       |                   |      |       |   |  |           |         |                      |           |                    |   | - 6 -                            |
|----------------|------------|-------|-------------------|------|-------|---|--|-----------|---------|----------------------|-----------|--------------------|---|----------------------------------|
| (XV) R         | L          | R     | F                 | 50 Ω | DC    | _ |  |           | NSE:INT | Avg Type<br>Avg/Hold |           | TRA                | AM Apr 27, 2018<br>CE 1 2 3 4 5 6<br>PE A WWWWW | Frequency                        |
| PAS            | B/div      |       | f Offse<br>f 30.0 |      |       |   | l:Fast ↔<br>in:Low   | #Atten: 3 |         | Avginoia             | . 100/100 | C                  | ANNNN   | Auto Tune                        |
| 20.0           | Trac       | e 1 i | ass               |      |       |   |  |           |         |                      |           |                    |   | Center Free<br>2.535000000 GH    |
| 10.0<br>0.00   |            |       |                   |      |       |   |  | former    | Lunn    |                      |           |                    |   | Start Fre<br>2.510000000 GH      |
| -10.0<br>-20.0 |            |       |                   |      |       | ſ |  |           |         |                      |           |                    |   | Stop Fre<br>2.56000000 GH        |
| -30.0          |            |       |                   |      | porod |   | and the second |           |         | - Marylan            | may       |                    |   | CF Ste<br>5.000000 MH<br>Auto Ma |
|                | m          | M     | ner-              | ~~~  | لب    | + |  |           |         |                      |           | work and a second  | ant and a second                                | Freq Offs<br>0 H                 |
| -60.0          | ter 2.     | 5250  |                   | 7    |       |   |  |           |         |                      |           | Spand              | 60.00 MHz                                       |                                  |
|                | s BW       |       |                   | Z    |       |   | #VBV   | / 910 kHz | *       | :                    | Sweep     | span :<br>1.000 ms |   |                                  |
| MSG            |            |       |                   |      |       |   |  |           |         |                      | STA       | TUS                |   |                                  |

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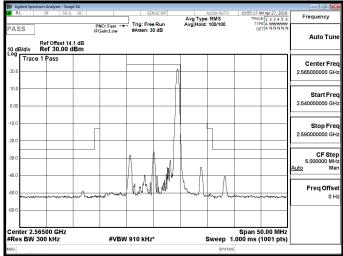


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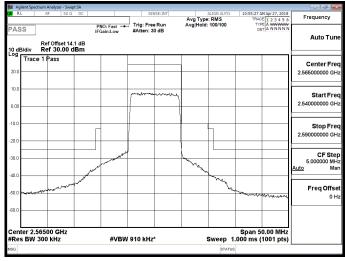
### Band 7 QPSK 10M RB1.0

|                   | ectrum Analyzer - Swep       |            |                        |                         |              |                | ,                 |           |                          |  |
|-------------------|------------------------------|------------|------------------------|-------------------------|--------------|----------------|-------------------|-----------|--------------------------|--|
| (XI RL            | RF 50 Ω                      | DC         |                        |                         | SE:INT       | Avg Type       | ALIGN AUTO        | TRAC      | M Apr 27, 2018           | Frequency                                  |
| PASS<br>10 dB/div | Ref Offset 14<br>Ref 30.00 c | IP<br>1 dB | NO: Fast ↔<br>Gain:Low | Trig: Free<br>#Atten: 3 | eRun<br>0 dB | Avg Hold:      | : 100/100         | DE        | E A WWWWW<br>A N N N N N | Auto Tune                                  |
| 20.0 Trac         | ce 1 Pass                    |            |                        | A                       |              |                |                   |           |                          | Center Freq<br>2.565000000 GHz             |
| 0.00              |                              |            |                        |                         |              |                |                   |           |                          | Start Free<br>2.540000000 GHz              |
| -10.0             |                              |            |                        |                         |              |                |                   |           |                          | Stop Frec<br>2.59000000 GH:                |
| -30.0             |                              |            |                        | 4                       |              |                |                   |           |                          | CF Step<br>5.000000 MH;<br><u>Auto</u> Mar |
|                   | mureburner                   | n have     | In                     | 4J                      | (MW)         | l<br>humathway | to and the second | -t-manapa | manahara                 | Freq Offse<br>0 H:                         |
|                   | .56500 GHz                   |            |                        |                         |              |                |                   |           | 0.00 MHz                 |  |
| #Res BW           | 300 kHz                      |            | #VBW                   | 910 kHz                 | •            |                | Sweep 1           | .000 ms ( | 1001 pts)                |  |

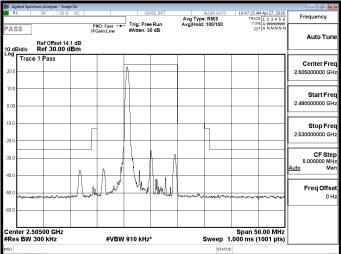
## Band 7 QPSK 10M RB1,49



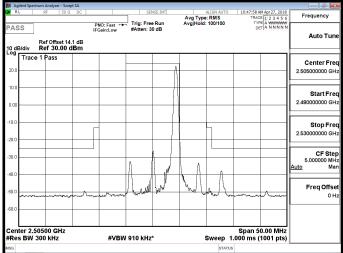
#### Band 7 QPSK 10M RB50.0



#### Band 7 16QAM 10M RB1,0



### Band 7 16QAM 10M RB1,49



#### Band 7 16QAM 10M RB50,0

|                |         |           | nalyzer - S |                  |                   |               |   |           |           |            |                   |                         |   |
|----------------|---------|-----------|-------------|------------------|-------------------|---------------|---|-----------|-----------|------------|-------------------|-------------------------|---|
| (XIR           | L       | R         | 50          | Ω DC             |                   |               | SEN   | ISE:INT   | Avg Type  | ALIGN AUTO | 10:48:11 /<br>TRA | AM Apr 27, 2018         | Frequency                                 |
| PAS            |         | Rel<br>Re | Offset      | 14.1 dB<br>) dBm | PNO: F<br>IFGain: | ast ⊶⊷<br>Low | Trig: Free<br>#Atten: 3   | Run<br>dB | Avg Hold: | : 100/100  | TY                | PE A WWWW<br>ET A NNNNN | Auto Tune                                 |
| Log<br>20.0    | Trac    | e 1 F     | ass         |                  |                   | -             |   |           |           |            |                   |                         | Center Fred<br>2.505000000 GHz            |
| 10.0<br>0.00   |         |           |             |                  |                   |               | provident and the second se | mann      |           |            |                   |                         | Start Free<br>2.480000000 GHz             |
| -10.0<br>-20.0 |         |           |             |                  |                   |               |   |           |           |            |                   |                         | Stop Fred<br>2.530000000 GH:              |
| -30.0          |         |           |             |                  |                   | mand          |   |           | 0.000 00  |            |                   |                         | CF Step<br>5.000000 MH<br><u>Auto</u> Mai |
| -50.0          | ~~~~~   | erre      | mannet      | -                | ar Veren VIII     |               |   |           |           | a second   | managen           | handra                  | Freq Offse                                |
|                | ter 2.4 |           | 0 GHz       |                  |                   | #VBW          | 910 kHz   |           |           | Sween      | Span 5            | 0.00 MHz                |   |
| MSG            |         |           |             |                  |                   |               | • · • MIL   |           |           | STAT       |                   |                         |   |

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f (886-2) 2298-0488

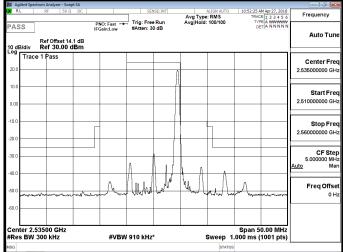


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### Band 7\_16QAM\_10M\_RB1,0

|             | ent Spect | um Analyzer - S        |               |      |                       |                         |               |          |               |                         |  |  |
|-------------|-----------|------------------------|---------------|------|-----------------------|-------------------------|---------------|----------|---------------|-------------------------|--|--|
| (X) RL      |           | RF 5                   | 0Ω DC         |      |                       | SEI                     | SE:INT        | Avg Typ  |               | TRAC                    | M Apr 27, 2018                               | Frequency                                  |
| PAS:        |           | Ref Offset<br>Ref 30.0 |               |      | Ю: Fast ↔<br>Gain:Low | Trig: Free<br>#Atten: 3 | e Run<br>0 dB | Avg Hold | : 100/100     | TYP                     |  |  |
| 20.0        | Trace     | 1 Pass                 |               |      |                       | A                       |               |          |               |                         |  | Center Freq<br>2.535000000 GHz             |
| 10.0        |           |                        |               |      |                       |                         |               |          |               |                         |  | Start Freq<br>2.510000000 GHz              |
| -10.0 -     |           |                        |               |      |                       |                         |               |          | 7             |                         |  | Stop Freq<br>2.560000000 GHz               |
| -30.0 -     |           |                        | Δ             |      | Λ                     |                         |               |          |               |                         |  | CF Step<br>5.000000 MHz<br><u>Auto</u> Man |
| -50.0       | www       | mm                     | <b>~~</b> ~// | home | and have a            | V"                      |               | homento  |               | -n-n-n-n-m              | anger an | Freq Offset<br>0 Hz                        |
|             |           | 3500 GHz               | 2             |      |                       |                         |               |          |               |                         | 0.00 MHz                                     |  |
| #Res<br>MSG | BW 3      | 100 kHz                |               |      | #VBW                  | 910 kHz                 | •             |          | Sweep<br>STAT | <b>1.000 ms (</b><br>us | 1001 pts)                                    |  |

## Band 7 16QAM 10M RB1,49



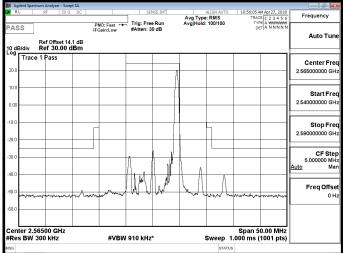
#### Band 7 16QAM 10M RB50,0

|                       | ilent Spe   |       |                   |      |    |                   |                          |         |           |               |  |                                   |                                      |
|-----------------------|-------------|-------|-------------------|------|----|-------------------|--------------------------|---------|-----------|---------------|--|-----------------------------------|--------------------------------------|
| XI R                  | L           | R     |                   | 50 Ω | DC |                   |                          | ISE:INT | Avg Type  |               | TRA                                    | AM Apr 27, 2018<br>CE 1 2 3 4 5 6 | Frequency                            |
| PAS                   | SS<br>B/div |       | f Offse<br>f 30.4 |      |    | :Fast ↔<br>in:Low | Trig: Free<br>#Atten: 30 |         | Avg Hold: | : 100/100     | D                                      | PE A WWWW<br>ET A NNNNN           | Auto Tu                              |
| .og<br>20.0           | Trac        | e 1 F | ass               |      |    |                   |                          |         |           |               |  |                                   | Center Fr<br>2.535000000 G           |
| 10.0<br>0.00          |             |       |                   |      |    |                   | man                      | www.mwm |           |               |  |                                   | Start Fr<br>2.510000000 G            |
| 10.0<br>20.0          |             |       |                   |      |    |                   |                          |         |           |               |  |                                   | Stop Fr<br>2.560000000 G             |
| i0.0                  |             |       |                   |      |    | <br><br>لمهيمسهم  |                          |         | harmore   |               |  |                                   | CF St<br>5.000000 M<br><u>Auto</u> M |
|                       | art na      | anna. | mant              | ,    | N  |                   |                          |         |           | · Mary        | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | monter                            | Freq Off                             |
|                       | ter 2.      |       |                   | łz   |    |                   |                          |         |           |               |  | 50.00 MHz                         |                                      |
| #Re<br><sup>usg</sup> | s BW        | 300   | kHz               |      |    | #VBW              | 910 kHz'                 | k .     | 1         | Sweep<br>STAT | 1.000 ms                               | (1001 pts)                        |                                      |

### Band 7 16QAM 10M RB1.0

|                   |           |       | Analyzer -        | - Swept |    |           |                    |           |                         |         |          |           |   |                                   |  |
|-------------------|-----------|-------|-------------------|---------|----|-----------|--------------------|-----------|-------------------------|---------|----------|-----------|---|-----------------------------------|--|
| XI RI             | .         | R     | F                 | 50 Ω    | DC |           |                    |           | 1                       | NSE:INT | Avg Typ  |           | TRA                                       | AM Apr 27, 2018<br>CE 1 2 3 4 5 6 | Frequency                              |
| PAS               | -         |       | f Offse<br>f 30.0 |         |    | PN<br>IFG | O: Fast<br>ain:Lov | , <b></b> | Trig: Free<br>#Atten: 3 |         | Avg Hold | : 100/100 | TI<br>C                                   | PE A WWWW                         | Auto Tun                               |
| <b>og</b><br>20.0 | Trac      | e 1 I | Pass              |         |    |           |                    |           | ٨                       |         |          |           |   |                                   | Center Fre<br>2.565000000 GH           |
| 10.0              |           |       |                   |         |    |           |                    |           |                         |         |          |           |   |                                   | Start Fre<br>2.540000000 GH            |
| 10.0<br>20.0      |           |       |                   |         |    | Γ         |                    |           |                         |         |          |           |   |                                   | Stop Fre<br>2.59000000 Gi              |
| 10.0              |           |       |                   |         | ٨  |           | ٨                  |           |                         | ۱ ۸     |          |           |   |                                   | CF Ste<br>5.000000 Mi<br><u>Auto</u> M |
| 50.0              | ر.<br>مرب | ~~~   | and and a star    | Pm      | Å  | h         | A                  | and .     | W                       | WU      | hund     | Marina    | dana ang mang mang mang mang mang mang ma | awara                             | Freq Offs<br>0                         |
| 60.0              | or 2      | 565   | 00 GH             | 17      |    |           |                    |           |                         |         |          |           | Span                                      | 50.00 MHz                         |  |
| #Res              | BW        |       |                   |         |    |           | #V                 | вw        | 910 kHz                 | *       |          |           | 1.000 ms                                  |                                   |  |
| SG                |           |       |                   |         |    |           |                    |           |                         |         |          | STA       | rus                                       |                                   |  |

## Band 7 16QAM 10M RB1,49



#### Band 7 16QAM 10M RB50,0

|        |   | Analyzer - Sw           |  |                            |           |                  |                      |         |                      |  |                     |
|--------|---|-------------------------|--|----------------------------|-----------|------------------|----------------------|---------|----------------------|--|---------------------|
| K RL   |   | RF 50 !                 | Ω DC   |                            |           |                  | Avg Type<br>Avg Hold | RMS     | TRAC                 | M Apr 27, 2018<br>E 1 2 3 4 5 6<br>E A WWWW  | Frequency           |
| PAS    | R   | ef Offset 1<br>ef 30.00 | 4.1 dB   | PNO: Fast ++<br>IFGain:Low | #Atten: 3 |                  | Avginou              | 100/100 | DE                   | ANNNN  | Auto Tur            |
| °g     | Trace 1                                     | Pass                    |  |                            |           |                  |                      |         |                      |  | Center Fre          |
| 20.0   |   |                         |  |                            |           |                  |                      |         |                      |  | 2.565000000 G       |
| 0.0    |   |                         |  |                            | prosona   | man              |                      |         |                      |  | Start Fr            |
| D. OO  |   |                         |  |                            |           | $\left  \right $ |                      |         |                      |  | 2.54000000 G        |
| 0.0    |   |                         |  |                            | 1         |                  |                      | L       |                      |  | Stop Fr             |
| 20.0   |   |                         |  |                            |           |                  |                      |         |                      |  | 2.59000000 G        |
| 10.0   |   |                         |  |                            | 1         |                  | Ļ                    |         |                      |  | CF St<br>5.000000 M |
| 40.0   |   |                         |  | and all and the            |           |                  | and the second       |         |                      |  | Auto M              |
|        |   |                         | and the state of t |                            |           |                  |                      | بمهور . | m.                   |  | Freq Offs           |
| iU.O 6 | haran an a |                         |  |                            |           |                  |                      |         | in a the spectrum of | and a second | . 0                 |
| 50.0   |   |                         |  |                            |           |                  |                      |         |                      |  |                     |
|        | er 2.565<br>BW 30                           |                         | 1  | #)(B)M                     | 910 kHz   | •                |                      | Bwoon   | Span 5<br>1.000 ms ( | 0.00 MHz   |                     |
| ISG    | D11 30                                      | U KI12                  |  | #*0**                      | 910 KHZ   |                  |                      | STAT    |                      | iooi pisj  |                     |

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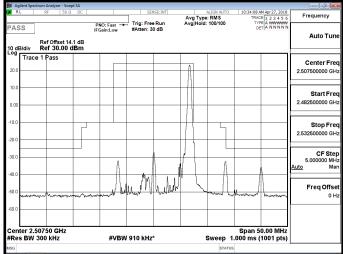


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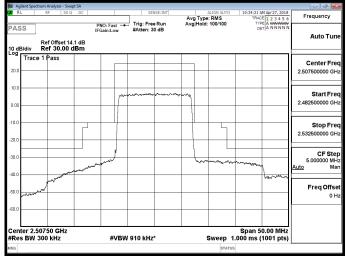
### Band 7\_QPSK\_15M\_RB1,0

| Agilent       | Spectrum A          | inalyzer - Swep         | t SA       |                     |     |                           |              |          |                   |                         |                | - @ ×                                      |
|---------------|---------------------|-------------------------|------------|---------------------|-----|---------------------------|--------------|----------|-------------------|-------------------------|----------------|--|
| LXI RL        | RI                  | 50 Ω                    | DC         |                     | 1   |                           | SE:INT       | Avg Type | ALIGN AUTO<br>RMS | TRAC                    | M Apr 27, 2018 | Frequency                                  |
| PASS          | Ref<br>v <b>R</b> e | Offset 14.<br>f 30.00 d | 1 dB<br>Bm | PNO: Fa<br>IFGain:L |     | J Trig: Free<br>#Atten: 3 | eRun<br>0 dB | Avg Hold | : 100/100         | DE                      |                | Auto Tune                                  |
| 20.0          | ace 1 F             | ass                     |            |                     | A   |                           |              |          |                   |                         |                | Center Freq<br>2.507500000 GHz             |
| 0.00          |                     |                         |            |                     |     |                           |              |          |                   |                         |                | Start Freq<br>2.482500000 GHz              |
| -10.0         |                     |                         |            |                     |     |                           |              |          | 5                 |                         |                | Stop Freq<br>2.532500000 GHz               |
| -30.0         |                     |                         | Λ          |                     |     |                           |              |          | L                 |                         |                | CF Step<br>5.000000 MHz<br><u>Auto</u> Man |
| -50.0         | man                 | hand                    | Went have  | and the second      |     | W                         | MAL          | he have  | mm                | www.www                 | Junior         | Freq Offset<br>0 Hz                        |
| -60.0         |                     |                         |            |                     |     |                           |              |          |                   |                         | 0.00 MHz       |  |
| #Res B<br>MSG | VV 300              | KMZ                     |            | #                   | VBW | 910 kHz                   | •            |          | Sweep<br>Stati    | <b>1.000 ms (</b><br>us | 1001 pts)      |  |

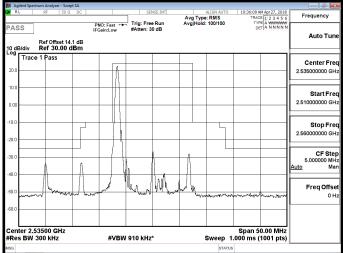
## Band 7\_QPSK\_15M\_RB1,74



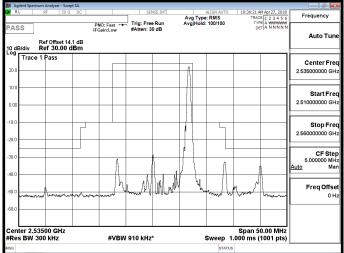
#### Band 7\_QPSK\_15M\_RB75,0



#### Band 7\_QPSK\_15M\_RB1,0



## Band 7\_QPSK\_15M\_RB1,74



#### Band 7\_QPSK\_15M\_RB75,0

|              |                    | ım Analyzer - Sw          |              |                      |       |                         |                      |     |   |                  |        |                               |   |
|--------------|--------------------|---------------------------|--------------|----------------------|-------|-------------------------|----------------------|-----|---|------------------|--------|-------------------------------|---|
| UXI R        | L                  | RF 50 !                   | Ω DC         |                      |       |                         | ISE:INT              | Av  | g Type                                  | ALIGN AUT<br>RMS | 0 10:3 | TRACE 1 2 3 4 5 6             | Frequency                               |
| PA8          |                    | Ref Offset 1<br>Ref 30.00 | ۱۴<br>4.1 dB | NO: Fast<br>Gain:Low |       | Frig: Free<br>#Atten: 3 | Run<br>dB            | Avş | Hold                                    | : 100/100        |        | DET A NNNN                    | Auto Tune                               |
| 20.0         | Trace              | 1 Pass                    |              |                      |       |                         |                      |     | -                                       |                  |        |                               | Center Fre<br>2.535000000 GH            |
| 10.0<br>0.00 |                    |                           |              |                      | pann  | u, mara                 | an the second second | ww  |   |                  |        |                               | Start Fre<br>2.510000000 GH             |
| -10.0        |                    |                           |              |                      |       |                         |                      |     |   |                  |        |                               | Stop Fre<br>2.56000000 GH               |
| 30.0<br>40.0 |                    |                           |              |                      |       |                         |                      |     | 6~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Marchylor        | hanna  |                               | CF Ste<br>5.000000 MH<br><u>Auto</u> Ma |
| 40.0<br>50.0 | mone               | , Marine Marine           |              |                      |       |                         |                      |     |   |                  |        | Manut                         | Freq Offs<br>0 H                        |
| -60.0        |                    |                           |              |                      |       |                         |                      | -   |   |                  |        |                               |   |
|              | ter 2.53<br>s BW 3 | 500 GHz<br>00 kHz         |              | #VI                  | BW 9' | 10 kHz                  |                      |     |   | Sweep            |        | an 50.00 MHz<br>ms (1001 pts) |   |
| ASG          |                    |                           |              |                      |       |                         |                      |     |   | STA              | TUS    |                               |   |

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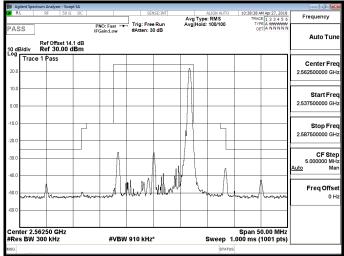


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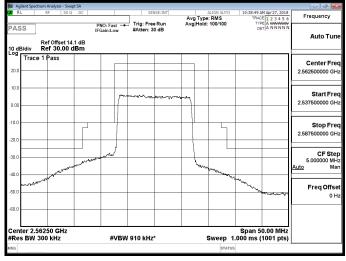
### Band 7 QPSK 15M RB1.0

|                                     | Analyzer - Swept SA              |      |                      | _                         | _       |           |            |                       |              | - # <b>X</b>                            |
|-------------------------------------|----------------------------------|------|----------------------|---------------------------|---------|-----------|------------|-----------------------|--------------|---|
| UM RL                               | RF 50Ω D                         | C    |                      |                           | VSE:INT | Avg Type  | ALIGN AUTO | TRACE                 | Apr 27, 2018 | Frequency                               |
| 10 dB/div R                         | ef Offset 14.1 d<br>ef 30.00 dBr | IFG: | O: Fast ↔<br>ain:Low | J Trig: Free<br>#Atten: 3 |         | Avg Hold: | : 100/100  | DET                   | A NNNNN      | Auto Tune                               |
| 20.0                                | Pass                             |      | A                    |                           |         |           |            |                       |              | Center Fred<br>2.562500000 GH:          |
| 0.00                                |                                  |      |                      |                           |         |           |            |                       |              | Start Free<br>2.537500000 GH            |
| -10.0                               |                                  |      |                      |                           |         |           |            |                       |              | Stop Fre<br>2.587500000 GH              |
| 40.0                                | A .                              | Λ    |                      |                           |         | A         |            |                       |              | CF Ste<br>5.000000 MH<br><u>Auto</u> Ma |
| -50.0                               | hunner                           | www  |                      | WILL                      | Mu      | W has     | Mahadak    | manger                | ~~~~~        | Freq Offse<br>0 H                       |
| -60.0<br>Center 2.562<br>#Res BW 30 |                                  |      | #\/BIA               | 910 kHz                   |         |           | Sween 1    | Span 50<br>.000 ms (1 | 0.00 MHz     |   |
| MSG                                 |                                  |      |                      | • • • • • • •             |         |           | STATUS     |                       | pro/         |   |

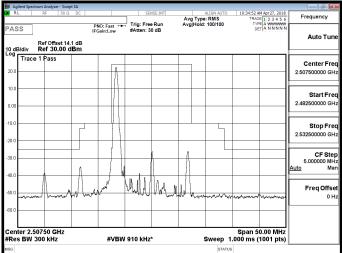
## Band 7 QPSK 15M RB1,74



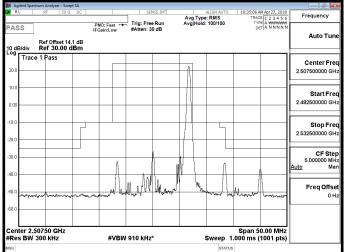
#### Band 7 QPSK 15M RB75.0



#### Band 7 16QAM 15M RB1,0



### Band 7 16QAM 15M RB1,74



#### Band 7 16QAM 15M RB75,0

|              |                  | n Analyzer - Swi         |              |                      |        |  |         |     |         |  |      |        |                | @_ <b>_</b> _                    |
|--------------|------------------|--------------------------|--------------|----------------------|--------|--|---------|-----|---------|--|------|--------|----------------|----------------------------------|
| XI RL        |                  | RF 50 \$                 | 2 DC         |                      |        | 1                                      | ISE:INT | Av  | g Type  | ALIGN AUT  | 0    | TRACE  | M Apr 27, 2018 | Frequency                        |
| PAS          | R                | ef Offset 14<br>ef 30.00 | 1F<br>1.1 dB | NO: Fast<br>Gain:Lov | v<br>v | <sup>J</sup> Trig: Free<br>#Atten: 3   |         | Avş | g Hold: | 100/100  |      | DE     |                | Auto Tun                         |
| 20.0         | Trace 1          | Pass                     |              |                      |        |  |         |     | -       |  |      |        |                | Center Fre<br>2.507500000 GH     |
| 10.0<br>0.00 |                  |                          |              |                      | ŗm     | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ******  | m   |         |  |      |        |                | Start Fre<br>2.482500000 GH      |
| 10.0         |                  |                          |              |                      |        |  |         |     |         |  |      |        |                | Stop Fre<br>2.532500000 GH       |
| 30.0         |                  |                          | awwww        | and a                |        |  |         |     |         | en anter a constante a cons<br>Constante a constante a const | -vra | munne  |                | CF Ste<br>5.000000 MH<br>Auto Ma |
| 50.0         | - Annone and the | Mar Allart               |              |                      |        |  |         |     |         |  |      |        | antreme        | Freq Offs<br>0 H                 |
| -60.0        | or 2 50          | 50 GHz                   |              |                      |        |  |         |     |         |  |      | Span 5 | 0.00 MHz       |                                  |
|              | BW 30            |                          |              | #V                   | вw     | 910 kHz                                | ۲.      |     | :       | Sweep  | 1.0  |        | 1001 pts)      |                                  |
| ISG          |                  |                          |              |                      |        |  |         |     |         | STA  | TUS  |        |                |                                  |

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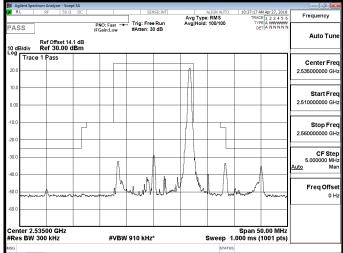


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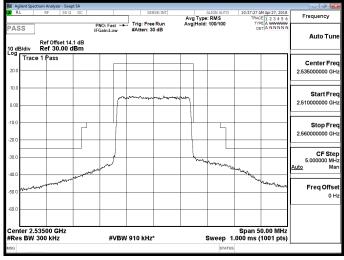
### Band 7\_16QAM\_15M\_RB1,0

|                           |        | Analyzer - Swep             |           |               |                         |         |          |            |        |                            | - 0 -                                    |
|---------------------------|--------|-----------------------------|-----------|---------------|-------------------------|---------|----------|------------|--------|----------------------------|--|
| LXI RL                    | F      | RF 50 Ω                     | DC        |               | SEI                     | ISE:INT | Avg Type | ALIGN AUTO | TRAC   | M Apr 27, 2018             | Frequency                                |
| PASS                      |        | ef Offset 14.<br>ef 30.00 d | ⊮<br>1 dB | PNO: Fast ++  | Trig: Free<br>#Atten: 3 |         | Avg Hold | : 100/100  | TYP    | E A WWWWW<br>T A N N N N N |  |
| 20.0                      | race 1 | Pass                        |           | A             |                         |         |          |            |        |                            | Center Fred<br>2.535000000 GHz           |
| 0.00                      |        |                             |           |               |                         |         |          |            |        |                            | Start Fred<br>2.510000000 GH             |
| -10.0                     |        |                             |           |               |                         |         |          |            |        |                            | Stop Fred<br>2.56000000 GH:              |
| -30.0                     |        | Ŋ                           | A         |               | l<br>1                  |         | A        |            |        |                            | CF Step<br>5.000000 MH<br><u>Auto</u> Ma |
| -50.0                     | annou  | haven                       | u hora    | t y y y y y y |                         | Man     |          | an an      | portan | Jourses                    | Freq Offse<br>0 H                        |
| -60.0<br>Center<br>#Res E |        |                             |           | #\/BIA        | 910 kHz                 |         |          | Sween 1    | Span 5 | 0.00 MHz                   |  |
| MSG                       |        |                             |           |               | 515 KHZ                 |         |          | STATU      |        | 100 i pioj                 |  |

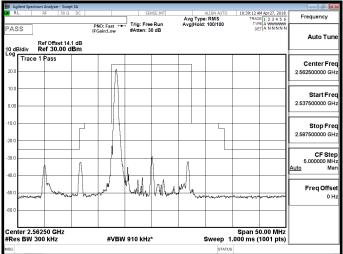
## Band 7 16QAM 15M RB1,74



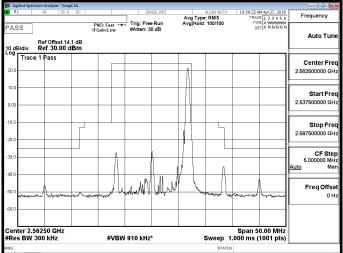
#### Band 7 16QAM 15M RB75.0



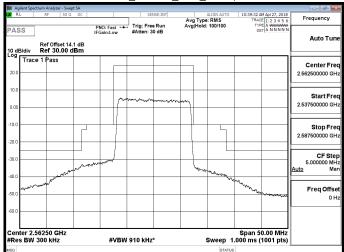
### Band 7 16QAM 15M RB1,0



### Band 7 16QAM 15M RB1,74



#### Band 7 16QAM 15M RB75.0



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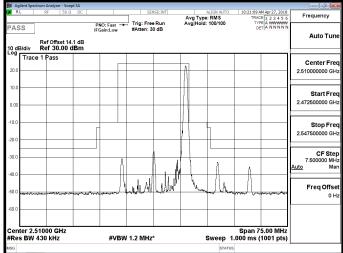


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### Band 7\_QPSK\_20M\_RB1,0

|        |          | n Analyzer - Swej          |              |                |                         |         |         |                       |                                |        | - @ ×                             |
|--------|----------|----------------------------|--------------|----------------|-------------------------|---------|---------|-----------------------|--------------------------------|--------|-----------------------------------|
| (X) RL |          | RF 50 Ω                    | DC           |                | 1                       | ISE:INT | Avg Typ | ALIGN AUTO<br>De: RMS | 10:20:33 AM Apr 2<br>TRACE 1 2 | 3456   | Frequency                         |
| PASS   | R        | ef Offset 14<br>ef 30.00 ( | iFi<br>.1 dB | NO: Fast 🔸     | Trig: Free<br>#Atten: 3 |         | Avg Hol | d: 100/100            | TYPE A WA                      | ****** | Auto Tune                         |
| 20.0   | Trace 1  | Pass                       |              | A              |                         |         |         |                       |                                |        | Center Fred<br>2.510000000 GHz    |
| 10.0   |          |                            |              |                |                         |         |         |                       |                                |        | Start Fred<br>2.472500000 GHz     |
| -10.0  |          |                            |              |                |                         |         |         |                       |                                |        | Stop Free<br>2.547500000 GH:      |
| -30.0  |          |                            | Λ            |                | <b>W</b> .              |         |         |                       |                                |        | CF Step<br>7.500000 MH<br>Auto Ma |
| 50.0   | ~~       | And                        | M            | and the second | W. Hala                 | with    |         |                       |                                |        | Freq Offse<br>0 H                 |
| -60.0  | or 2 51( | 000 GHz                    |              |                |                         |         |         |                       | Span 75.00                     | MHz    |                                   |
|        | BW 43    |                            |              | #VBW           | 1.2 MHz                 | •       |         | Sweep '               | 1.000 ms (1001                 |        |                                   |
| MSG    |          |                            |              |                |                         |         |         | STATU                 | s                              |        |                                   |

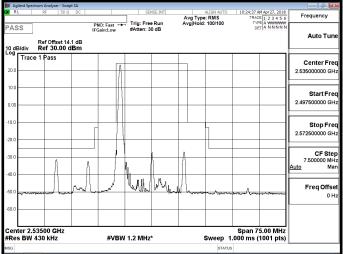
## Band 7\_QPSK\_20M\_RB1,99



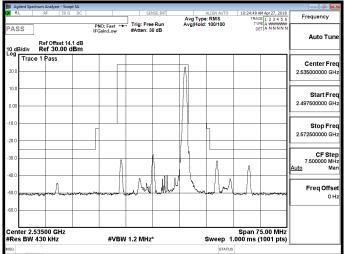
#### Band 7\_QPSK\_20M\_RB100,0

| 鱦 Agilent Spectrum Analyzer - S                |         |                        |              |          |          |           |       |                       |   |
|--|---------|------------------------|--------------|----------|----------|-----------|-------|-----------------------|---|
| CM RL RF 50                                    | DO DC   |                        | SENSE        | A        | vg Type  | RMS       | TRAC  | M Apr 27, 2018        | Frequency                               |
| PASS<br>Ref Offset<br>10 dB/div Ref 30.00      | 14.1 dB | NO: Fast ↔<br>Sain:Low | #Atten: 30 c | iB<br>IB | vginoia. | 100/100   | De    | A NNNNN               | Auto Tune                               |
| 20.0 Trace 1 Pass                              |         |                        |              |          |          |           |       |                       | Center Fred<br>2.510000000 GHz          |
| 0.00   |         | ſ                      |              | Server . |          |           |       |                       | Start Free<br>2.472500000 GH            |
| -10.0  |         |                        |              |          |          | ]         |       |                       | Stop Free<br>2.547500000 GH             |
| -30.0  | Juran   | mand                   |              |          | L        | ~~******* | , man | Martin Starting       | CF Stej<br>7.50000 MH<br><u>Auto</u> Ma |
| -50.0  |         |                        |              |          |          |           |       |                       | Freq Offse<br>0 H                       |
| -60.0<br>Center 2.51000 GHz<br>#Res BW 430 kHz |         | #VBW                   | 1.2 MHz*     |          |          | Sweep 1   |       | 5.00 MHz<br>1001 pts) |   |
| MSG  |         |                        |              |          |          | STATUS    |       | pro,                  | L                                       |

#### Band 7\_QPSK\_20M\_RB1,0



### Band 7\_QPSK\_20M\_RB1,99



#### Band 7\_QPSK\_20M\_RB100,0

|                     | iectrum Analyzer - S         |               |                        |                          |                |         |                        |       |                            |                                 |
|---------------------|------------------------------|---------------|------------------------|--------------------------|----------------|---------|------------------------|-------|----------------------------|---------------------------------|
| XI RL               | RF 50                        | DΩ DC         |                        | 1                        | SE:INT         | Avg     | ALIGN AUT<br>Fype: RMS | TRJ   | AM Apr 27, 2018            | Frequency                       |
| PASS                | Ref Offset<br>Ref 30.00      | IF<br>14.1 dB | NO: Fast ↔<br>Gain:Low | Trig: Free<br>#Atten: 30 |                | Avg H   | loid: 100/100          | T     | VPE A WWWWW<br>DET A NNNNN | Auto Tun                        |
| 20.0 Tra            | ce 1 Pass                    |               |                        |                          |                |         |                        |       |                            | Center Fre<br>2.535000000 GH    |
| 0.00                |                              |               | ſ                      | when we have             | win in one and | η       |                        |       |                            | Start Fre<br>2.497500000 Gi     |
| 0.0                 |                              |               |                        |                          |                |         |                        |       |                            | <b>Stop Fr</b><br>2.572500000 G |
| 10.0                |                              |               | m                      |                          |                | <u></u> | and the second second  | ennan |                            | CF Ste<br>7.500000 M<br>Auto M  |
| 10.0<br>w~~<br>i0.0 | VanphrisoWo <sup>shlor</sup> |               |                        |                          |                |         |                        |       | anaper ter                 | Freq Offs                       |
| 50.0                |                              |               |                        |                          |                |         |                        |       |                            |                                 |
|                     | .53500 GHz<br>V 430 kHz      |               | #VBW                   | 1.2 MHz*                 |                |         | Sweep                  |       | 75.00 MHz<br>(1001 pts)    |                                 |
| SG                  |                              |               |                        |                          |                |         | STA                    | rus   |                            |                                 |

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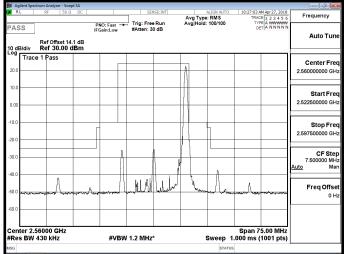


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### Band 7\_QPSK\_20M\_RB1,0

|                    | nt Spect | rum Ana  | lyzer - Swep         | it SA |                    |      |                         |         |    |        |                 |                          |  |  |
|--------------------|----------|----------|----------------------|-------|--------------------|------|-------------------------|---------|----|--------|-----------------|--------------------------|--|--|
| (XI RL             |          | RF       | 50 Ω                 | DC    |                    |      | SEI                     | VSE:INT |    | g Type | ALIGN AUTO      |                          | M Apr 27, 2018                         | Frequency                                  |
| PASS               |          | Ref C    | Mfset 14.<br>30.00 d | 1 dB  | O: Fast<br>ain:Low |      | Trig: Free<br>#Atten: 3 |         |    |        | 100/100         | TYI                      | 1 2 3 4 5 6<br>A WWWW<br>T A N N N N N |  |
| 20.0               | Trace    | 1 Pa     |                      |       |                    | Å    |                         |         |    |        |                 |                          |  | Center Freq<br>2.56000000 GHz              |
| 10.0 -<br>0.00 -   |          |          |                      |       |                    |      |                         |         |    |        |                 |                          |  | Start Freq<br>2.522500000 GHz              |
| -10.0 -<br>-20.0 - |          |          |                      |       |                    |      |                         |         |    |        | 1               |                          |  | Stop Freq<br>2.597500000 GHz               |
| -30.0 -            |          |          | A                    |       | -                  |      |                         |         | A  |        |                 |                          |  | CF Step<br>7.500000 MHz<br><u>Auto</u> Mar |
|                    | البريد   | ritan ar |                      | And   |                    |      | W.L.                    | WW.     | ьЩ | -      | a forgasser and | talate after a more that | alanan an an a                         | Freq Offset<br>0 Hz                        |
| -60.0<br>Cente     |          |          |                      |       | #\/                | D14/ | 1.2 MHz                 |         |    |        |                 | Span 7<br>1.000 ms (     | 5.00 MHz                               |  |
| #Res<br>MSG        | 044 4    | +JU K    | <b>11</b> 2          |       | #VI                | 044  | 1.2 MHZ                 |         |    |        | SWEED           |                          | ioo i pisj                             | [  |

## Band 7\_QPSK\_20M\_RB1,99



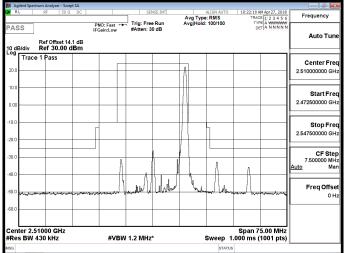
#### Band 7\_QPSK\_20M\_RB100,0

|                |        |           | ilyzer - Sw       |       |                |                |      |                         |  |     |         |           |             |  | - 0 -                            |
|----------------|--------|-----------|-------------------|-------|----------------|----------------|------|-------------------------|--|-----|---------|-----------|-------------|--|----------------------------------|
| (XI RI         | L      | RF        | 50                | Ω DC  |                |                |      |                         | ISE:INT                                |     | vg Typ  |           | т           | 17 AM Apr 27, 2018<br>RACE 1 2 3 4 5 6<br>TYPE A WWWWW | Frequency                        |
| PAS            |        |           | )ffset 1<br>30.00 |       | PNO:<br>IFGain | Fast ←<br>:Low |      | Frig: Free<br>Atten: 30 |  | A   | vg Hold | : 100/100 |             | DETANNNN   | Auto Tune                        |
| 20.0           | Trac   | e 1 Pa    | SS                |       |                | -              |      |                         |  |     |         |           |             |  | Center Free<br>2.560000000 GH    |
| 10.0           |        |           |                   |       | +              | -1             | ~~~~ | wither straining        | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | uny |         |           |             |  | Start Fre<br>2.522500000 GH      |
| -10.0<br>-20.0 |        |           |                   |       |                |                |      |                         |  |     |         |           |             |  | Stop Fre<br>2.597500000 GH       |
| -30.0          |        |           | ~                 | munud | www.en.ye      | and l          |      |                         |  |     | Maryon  | marine    |             |  | CF Ste<br>7.500000 MH<br>Auto Ma |
| -40.0          | A4     | - Charles | dr.               |       |                |                |      |                         |  |     |         |           | NA CONTRACT | Mannhessan   | Freq Offso<br>0 ⊦                |
| -60.0<br>Cen   | ter 2. | 56000     | GH7               |       |                |                |      |                         |  |     |         |           | Spar        | 1 75.00 MHz  |                                  |
|                | s BW   |           |                   |       |                | #VBI           | W 1. | 2 MHz'                  | •                                      |     |         |           |             | s (1001 pts)   |                                  |

#### Band 7\_16QAM\_20M\_RB1,0

|                |       |                | nalyzer - Sv        |           |   |                      |    |                         |         |    |         |            |    |                          | _ # <mark>×</mark>                        |
|----------------|-------|----------------|---------------------|-----------|---|----------------------|----|-------------------------|---------|----|---------|------------|----|--------------------------|---|
| (XI R          | L     | RF             | 50                  | Ω DC      |   |                      |    |                         | ISE:INT | Av | g Type  | ALIGN AUTO | TR | AM Apr 27, 2018          | Frequency                                 |
| PA8            | B/div |                | Offset 1<br>f 30.00 |           |   | NO: Fast<br>Gain:Low |    | Trig: Free<br>#Atten: 3 |         | Av | g Hold: | 100/100    | T  | YPE A WWWW<br>DET A NNNN | Auto Tune                                 |
| 20.0           | Trac  | ce 1 P         | 'ass                |           |   |                      | A  |                         |         |    |         |            |    |                          | Center Fred<br>2.510000000 GHz            |
| 10.0           |       |                |                     |           |   |                      |    |                         |         |    |         |            |    |                          | Start Fred<br>2.472500000 GH:             |
| -10.0<br>-20.0 |       |                |                     |           | [ |                      |    |                         |         |    |         |            |    |                          | Stop Free<br>2.547500000 GH               |
| -30.0          |       |                |                     |           | ٨ |                      |    |                         |         | A  |         |            |    |                          | CF Step<br>7.500000 MH<br><u>Auto</u> Mar |
| -40.0          | que   | 920, age - a   | h                   | antor Art | Д | and the second       |    |                         | Mallyn  | J. |         | water      | -  | ******                   | Freq Offse                                |
| -60.0          | E     |                |                     |           |   |                      |    |                         |         |    |         |            |    |                          |   |
|                |       | .5100<br>/ 430 | 0 GHz<br>kHz        |           |   | #V                   | вw | 1.2 MHz                 | •       |    |         | Sweep      |    | 75.00 MHz<br>(1001 pts)  |   |
| MSG            |       |                |                     |           |   |                      |    |                         |         |    |         | STAT       | US |                          |   |

## Band 7\_16QAM\_20M\_RB1,99



#### Band 7\_16QAM\_20M\_RB100,0

|              | lent Spect |      |              |        | it SA |           |  |    |   |               |   |         |   |     |            |                | - 0                                     |
|--------------|------------|------|--------------|--------|-------|-----------|--|----|---|---------------|---|---------|---|-----|------------|----------------|---|
| UXU RL       |            | RF   |              | 50 Ω   | DC    |           |  |    | SEI   | NSE:INT       |   |         | ALIGN AUT                               | 0   | 10:22:23 A | M Apr 27, 2018 | Frequency                               |
| PAS          | _          | Ref  | Offs<br>f 30 | et 14. | 1 dB  |           | IO: Fast<br>Sain:Lov   |    | Trig: Free<br>#Atten: 3   | e Run<br>0 dB | Á | vg Hold | 100/100                                 |     | TYP        |                |   |
| 20.0         | Trace      | 11   | ass          |        |       |           |  |    |   |               |   |         |   |     |            |                | Center Fre<br>2.510000000 GH            |
| 10.0<br>0.00 |            |      |              |        |       |           |  | ſ  | and a grant of the second s |               | - |         |   |     |            |                | Start Fre<br>2.472500000 GH             |
| -10.0        |            |      |              |        |       |           |  |    |   |               |   |         |   |     |            |                | Stop Fre<br>2.547500000 GH              |
| -30.0        |            |      |              |        |       | , we want | and and a second se | L  |   |               |   | harrow  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |     | mar have   | the second     | CF Ste<br>7.500000 Mi<br><u>Auto</u> Mi |
| 50.0         | Yerterana  | بدير | u,           |        |       |           |  |    |   |               |   |         |   |     |            |                | Freq Offs<br>01                         |
| -60.0        | er 2.5     | 100  | 0.0          | 47     |       |           |  |    |   |               |   |         |   |     | Spap 7     | 5.00 MHz       |   |
|              | BW 4       |      |              |        |       |           | #V   | BW | 1.2 MHz   | *             |   |         | Sweep                                   | 1.0 |            | 1001 pts)      |   |
| MSG          |            |      |              |        |       |           |  |    |   |               |   |         | STA                                     | TUS |            |                |   |

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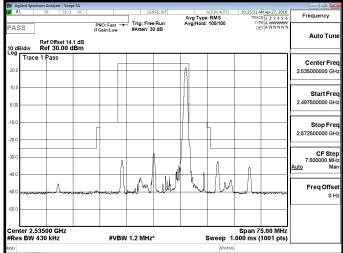


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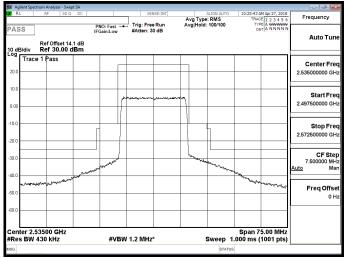
### Band 7\_16QAM\_20M\_RB1,0

|              | nt Spect |      | lyzer - Swep         |    |    |                      |    |                         |         |             |             |            |                                   |   |
|--------------|----------|------|----------------------|----|----|----------------------|----|-------------------------|---------|-------------|-------------|------------|-----------------------------------|---|
| (XI RL       |          | RF   | 50 Ω                 | DC |    |                      |    | SEI                     | ISE:INT | Ave T       | ALIGN AUT   | 0 10:25:19 | AM Apr 27, 2018<br>CE 1 2 3 4 5 6 | Frequency                                 |
| PASS         |          |      | Iffset 14<br>30.00 c |    |    | IO: Fast<br>Sain:Low |    | Trig: Free<br>#Atten: 3 |         |             | id: 100/100 | יד<br>ס    | ET A NNNN                         | Auto Tune                                 |
| 20.0         | Trace    | 1 Pa | ss                   |    |    |                      | A  |                         |         |             |             |            |                                   | Center Freq<br>2.535000000 GHz            |
| 10.0<br>0.00 |          |      |                      |    |    |                      |    |                         |         |             |             |            |                                   | Start Freq<br>2.497500000 GHz             |
| -10.0 -      |          |      |                      |    |    |                      |    |                         |         |             | 1           |            |                                   | Stop Freq<br>2.572500000 GHz              |
| -30.0        |          |      | A                    |    | Λ  |                      |    |                         |         | A           |             |            |                                   | CF Step<br>7.50000 MHz<br><u>Auto</u> Mar |
| -50.0 pr     | *****    | ,,   | J ym                 | m  | Д_ | كممس                 |    | M.                      | White   | well hourse | สาราชาว     | - And      |                                   | Freq Offset<br>0 Hz                       |
| -60.0        | er 2.5   | 3500 | GHz                  |    |    |                      |    |                         |         |             |             | Span 7     | 75.00 MHz                         |   |
| #Res         |          |      |                      |    |    | #V                   | BW | 1.2 MHz                 | •       |             | Sweep       | 1.000 ms   |                                   |   |

## Band 7\_16QAM\_20M\_RB1,99



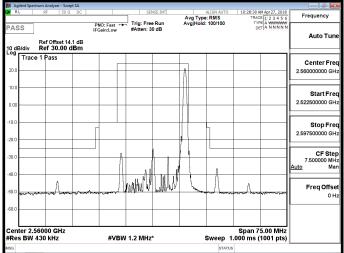
#### Band 7\_16QAM\_20M\_RB100,0



#### Band 7\_16QAM\_20M\_RB1,0

|                |             |   | Analyzer           |      | t SA |           |                     |    |                         |         |      |   |  |   | - @ <b>*</b>                      |
|----------------|-------------|---|--------------------|------|------|-----------|---------------------|----|-------------------------|---------|------|---|--|---|-----------------------------------|
| <b>LXI</b> R   | L           | F   | RE                 | 50 Ω | DC   |           |                     |    |                         | NSE:INT |      | ALIGN AUT<br>Type: RMS<br>Hold: 100/100 | TRA                                    | AM Apr 27, 2018<br>DE 1 2 3 4 5 6<br>PE A WWWWW | Frequency                         |
| PA\$           | SS<br>B/div |   | ef Offse<br>ef 30. |      |      | PN<br>IFG | IO: Fast<br>ain:Low |    | Trig: Free<br>#Atten: 3 |         | Avgi | 1010.100/100                            | D                                      | ANNNN   | Auto Tune                         |
| Log<br>20.0    | Trac        | ce 1  | Pass               |      |      |           |                     | A  |                         |         |      |   |  |   | Center Freq<br>2.560000000 GHz    |
| 10.0<br>0.00   |             |   |                    |      |      |           |                     |    |                         |         |      |   |  |   | Start Fred<br>2.522500000 GHz     |
| -10.0<br>-20.0 |             |   |                    |      |      | [         |                     |    |                         |         |      |   |  |   | Stop Free<br>2.597500000 GH:      |
| -30.0          |             |   | A                  |      |      |           |                     |    |                         |         | A    |   |  |   | CF Step<br>7.50000 MH<br>Auto Mar |
| -50.0          |             | adar an |                    | town | M    | \         | -pert led           | _  | hulle                   | M.      |      |   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | an a        | Freq Offse<br>0 H                 |
| -60.0          | ter 2       | 560   | 00 Gł              | 47   |      |           |                     |    |                         |         |      |   | Span 7                                 | '5.00 MHz                                       |                                   |
|                | s BW        |   |                    | 16   |      |           | #V                  | вW | 1.2 MHz                 | *       |      | Sweep                                   | 1.000 ms                               |   |                                   |

## Band 7\_16QAM\_20M\_RB1,99



#### Band 7\_16QAM\_20M\_RB100,0

| WI     L     №     59.0     DC     SINE:BIT     ALLION AUTO     10.28841.4M.at/27.23.51     Frequent       PASS     PNO: Feat →<br>Floain:Low     Trig: Free Run<br>#Atten: 30.00 db     Trig: Free Run<br>Avg]/Piold: 100/100     Trig: Ref     Trig: Ref <t< th=""><th>Tune</th></t<> | Tune                   |
|---|------------------------|
| PASS IPGInizow #Atten: 30 dB DerlANNNN<br>Ref Offset 14.1 dB Auto   | Tune                   |
|   |                        |
| Log Trace 1 Pass Cente   20.0 2.5500000   |                        |
|   | t Frec<br>00 GH:       |
|   | p Free<br>00 GH:       |
|   | F Step<br>DO MH<br>Mai |
| 400   | Offse<br>0 Hi          |
| 800 Center 2.56000 GHz Span 75.00 MHz   |                        |
| #Res BW 430 kHz #VBW 1.2 MHz* Sweep 1.000 ms (1001 pts)   |                        |

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### Part 90 Band 26 QPSK 1.4M RB1.0

| PASS     Proc. Wide     Trig: Free Run<br>If GainLow     Avg Type: RMS<br>AvgHdd: 100/100     Tricce 12 3 3 4 5 6<br>Tricce 12 3 3 4 5 6<br>Tricce 12 3 4 5 6<br>Tricee   | 🧾 Agilent Spectrum Analyzer - Swe |            |  |                             |   |  |
|--|-----------------------------------|------------|--|-----------------------------|---|--|
| PASS     refOffset 135 dB     Def[ANNNN     Auto Tu       to dB/div     RefOffset 135 dB     Center Fi     81470000 M       200     Image: Strate 1 Pass  | 24 RL RF 50Ω                      |            | SENSE:INT                              | ALIGN AUTO<br>Avg Type: RMS | 03:20:06 PM Apr 27, 2018<br>TRACE 1 2 3 4 5 6 | Frequency                              |
| Trace 1 Pass Center Fi   200 200   100 </th <th>Ref Offset 13</th> <th>IFGain:Low</th> <th></th> <th>Avg Hold: 100/100</th> <th></th> <th>Auto Tune</th>   | Ref Offset 13                     | IFGain:Low |  | Avg Hold: 100/100           |   | Auto Tune                              |
| Bit     Start F       0.00     0       100     0       200     0       300     0       400     0       600     0       600     0   | Trace 1 Pass                      |            |  |                             |   | Center Free<br>814.700000 MH           |
| 20 0<br>30 0<br>40 0<br>50 0 |                                   |            |  |                             |   | Start Fre<br>813.200000 MH             |
| 40.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0<br>60.0 |                                   |            |  |                             |   | Stop Fre<br>816.200000 MH              |
| 50.0 Freq Off 0  |                                   | ~          | - What                                 |                             |   | CF Ste<br>300.000 kł<br><u>Auto</u> Ma |
| 60.0   | 50.0                              |            | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | M M                         | ~~~~~~  | Freq Offs<br>0 F                       |
| Center 814.700 MHz<br>Res BW 20 KHz #VBW 62 KHz* Sweep 3.067 ms (1001 pts)   | Center 814.700 MHz                | #\(P)W     | 62 kH-*                                | Ewaan 2                     | Span 3.000 MHz                                |  |

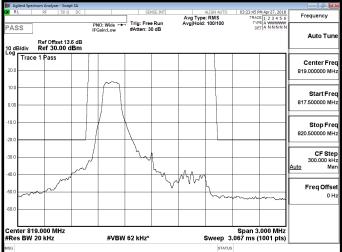
## Part 90\_Band 26\_QPSK\_1.4M\_RB1,5

|              | gilent Spe  |       |      |       |     |           |                      |    |                         |        |          |       |        |        |                |   |
|--------------|-------------|-------|------|-------|-----|-----------|----------------------|----|-------------------------|--------|----------|-------|--------|--------|----------------|---|
| (XIR         | L           | P     | F    | 50 Ω  | DC  |           |                      |    | 1                       | SE:INT | Avg Type | : RM  | I AUTO | TRAC   | M Apr 27, 2018 | Frequency                                 |
| PA:          | SS<br>B/div |       |      | et 13 |     | PN<br>IFC | iO: Wide<br>Sain:Low |    | Trig: Free<br>#Atten: 3 |        | Avg Hold | : 100 | /100   | D      | A NNNNN        | Auto Tune                                 |
| Lõg<br>20.0  |             | e 1 I | Pass |       |     |           |                      |    |                         |        | ~~~~     |       | 1      |        |                | Center Freq<br>814.700000 MHz             |
| 10.0<br>0.00 |             |       |      |       |     | -         |                      |    |                         |        | $\int$   |       |        |        |                | Start Freq<br>813.200000 MHz              |
| -10.0        |             |       |      |       |     |           |                      |    |                         | _/     |          |       |        |        |                | Stop Freq<br>816.200000 MHz               |
| -30.0        |             |       |      |       |     |           |                      |    | Ŵ                       | ~      |          |       | h      |        |                | CF Step<br>300.000 kHz<br><u>Auto</u> Man |
| -50.0        |             |       | ~~~  | ~~~   | ~~~ | ~/        | N VI                 | n  | ~                       |        |          |       |        | ·~~    | mont           | Freq Offset<br>0 Hz                       |
|              | ter 8       |       |      | IHz   |     |           |                      |    | co.Lul-t                |        |          |       |        | Span 3 | .000 MHz       |   |
| #Re          | s BW        | 201   | KHZ  |       |     |           | #V                   | BW | 62 kHz*                 |        |          | SWE   | STATUS |        | 1001 pts)      |   |

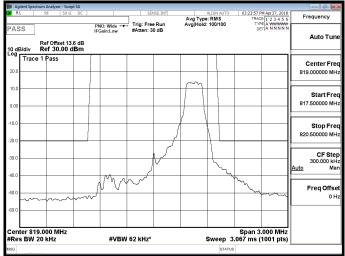
## Part 90 Band 26 QPSK 1.4M RB6,0

|                       | ilent Spec |          |                |                 |             |        |                      |    |                         |        |          |        |        |        |   | -                           |                      |
|-----------------------|------------|----------|----------------|-----------------|-------------|--------|----------------------|----|-------------------------|--------|----------|--------|--------|--------|---|-----------------------------|----------------------|
| L <mark>XI</mark> R   | L          | R        | F              | 50 Ω            | DC          |        |                      | _  |                         | SE:INT | Avg Type | e: RM  |        | TRAC   | PM Apr 27, 2018<br>E 1 2 3 4 5 6<br>PE A WWWW | Frequence                   | ;y                   |
| PAS                   |            | Re<br>Re | f Offs<br>f 30 | et 13.<br>.00 d | 6 dB<br>IBm |        | IO: Wide<br>Sain:Low |    | Trig: Free<br>#Atten: 3 | 0 dB   | Avg Hold | : 100/ | 100    | D      | ET A NNNN                                     | Auto                        | Tune                 |
| 20.0                  | Trac       | e 1 I    | ass            |                 |             | -      |                      |    |                         |        |          |        |        |        |   | Center<br>814.70000         |                      |
| 10.0                  |            |          |                |                 |             |        | ſ                    | ~  | ~~~~                    |        | m        |        |        |        |   | Start<br>813.20000          |                      |
| -10.0<br>-20.0        |            |          |                |                 |             |        |                      |    |                         |        |          |        |        |        |   | Stop<br>816.20000           | Freq<br>MHz          |
| -30.0<br>-40.0        |            |          |                |                 |             | $\int$ |                      |    |                         |        |          | l      | ~~~~~  |        |   | CF<br>300.00<br><u>Auto</u> | Step<br>0 kHz<br>Man |
| -50.0                 | $\sim$     | ~        | ~~~            | ~~~             |             |        |                      |    |                         |        |          |        |        | v-vv   | ~~~~  | Freq C                      | Offset<br>0 Hz       |
|                       | ter 81     |          |                | Hz              |             |        |                      |    |                         |        |          |        |        | Span 3 | .000 MHz                                      |                             |                      |
| #Re<br><sup>MSG</sup> | s BW       | 20       | (Hz            |                 |             |        | #VE                  | BW | 62 kHz*                 |        |          | Swe    | status |        | (1001 pts)                                    |                             |                      |

#### Part 90 Band 26 QPSK 1.4M RB1,0



#### Part 90 Band 26 QPSK 1.4M RB1,5



#### Part 90 Band 26 QPSK 1.4M RB6,0

|              |                | um Analyzer -          |                    |                      |                      |                         |               |          |                 |      |  |                       |                                       |
|--------------|----------------|------------------------|--------------------|----------------------|----------------------|-------------------------|---------------|----------|-----------------|------|--|-----------------------|---------------------------------------|
| UXI RI       |                | RF 5                   | 50Ω DC             |                      |                      |                         | NSE:INT       | Avg Type | ALIGN AU<br>RMS |      | TRAC                                   | PM Apr 27, 2018       | Frequency                             |
| PAS          |                | Ref Offset<br>Ref 30.0 | t13.6 dB<br>10 dBm | PN<br>IFG            | O: Wide ↔<br>ain:Low | Trig: Free<br>#Atten: 3 | e Run<br>0 dB | AvgHold  | : 100/100       | )    | ועד<br>וס                              | A NNNNN               | Auto Tun                              |
| 20.0         | Trace          | 1 Pass                 |                    |                      |                      |                         |               |          |                 |      |  |                       | Center Fre<br>819.000000 MH           |
| 10.0<br>0.00 |                |                        |                    |                      |                      | ~~~~                    | ~~~~          | m        |                 |      |  |                       | Start Fre<br>817.500000 Mi            |
| -10.0        |                |                        |                    |                      |                      |                         |               |          |                 |      |  |                       | Stop Fre<br>820.500000 Mi             |
| 30.0         |                |                        |                    | $\int_{\mathcal{A}}$ |                      |                         |               |          |                 | ~    |  |                       | CF Ste<br>300.000 ki<br><u>Auto</u> M |
| -40.0        | ~~~~           |                        |                    |                      |                      |                         |               |          |                 |      | -~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~                  | Freq Offs                             |
| -60.0        |                |                        |                    |                      |                      |                         |               |          |                 |      |  |                       |                                       |
|              | er 819<br>BW 2 | .000 MH<br>0 kHz       | z                  |                      | #VBW                 | 62 kHz*                 |               |          | Sweep           | 3.   |  | .000 MHz<br>1001 pts) |                                       |
| MSG          |                |                        |                    |                      |                      |                         |               |          | ST              | ATUS |  |                       |                                       |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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台灣檢驗科技股份有限公司

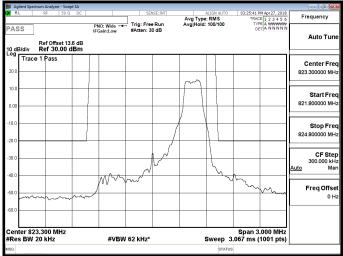


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### Part 90\_Band 26\_QPSK\_1.4M\_RB1,0

| 📕 Agilent Spectrum Analyze                  |                          |          |                          |         |           |         |                        |                | - # ×                                    |
|---|--------------------------|----------|--------------------------|---------|-----------|---------|------------------------|----------------|--|
| KARL RF                                     | 50 Ω DC                  |          |                          | ISE:INT | Avg Type  | RMS     | TRACI                  | M Apr 27, 2018 | Frequency                                |
| 10 dB/div Ref 30                            | P<br>IF<br>IF<br>13.6 dB | NO: Wide | Trig: Free<br>#Atten: 30 |         | Avg Hold: | 100/100 | DE                     | ANNNN          | Auto Tune                                |
| 20.0 Trace 1 Pass                           |                          | ~~       |                          |         |           |         |                        |                | Center Fred<br>823.300000 MHz            |
| 0.00  |                          |          |                          |         |           |         |                        |                | Start Free<br>821.800000 MH              |
| -10.0                                       |                          |          | Ĺ                        |         |           |         |                        |                | Stop Free<br>824.800000 MH:              |
| -30.0                                       | - A                      |          | h                        | 1       |           |         |                        |                | CF Step<br>300.000 kH<br><u>Auto</u> Man |
| -50.0                                       |                          |          |                          | °~~     | ,~~~~~    | L       |                        | ~~~            | Freq Offse<br>0 H                        |
| -60.0<br>Center 823.300 M<br>#Res BW 20 kHz | Hz                       | #\/B\W   | 62 kHz*                  |         |           | Sween   | Span 3.<br>3.067 ms (* | 000 MHz        |  |
| MSG   |                          | # V DVV  | V2 NH2                   |         |           | SWEEP   |                        | ioo i pis)     |  |

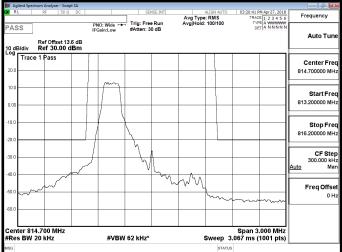
## Part 90\_Band 26\_QPSK\_1.4M\_RB1,5



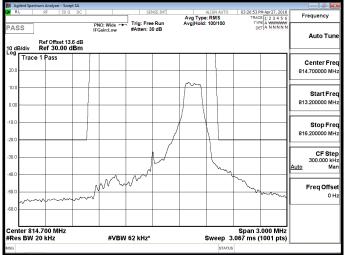
#### Part 90\_Band 26\_QPSK\_1.4M\_RB6,0

|              | ilent Spe      |       |      |                 |     |           |                    |          |                         |         |          |          |       |                    |                       |      | - @ <b>X</b>               |
|--------------|----------------|-------|------|-----------------|-----|-----------|--------------------|----------|-------------------------|---------|----------|----------|-------|--------------------|-----------------------|------|----------------------------|
| (XIR)        | L              | F     | F    | 50 Ω            | DC  |           |                    |          |                         | VSE:INT | Avg Typ  |          |       | TRAC               | M Apr 27, 2018        |      | requency                   |
| PAS          |                |       |      | et 13.<br>.00 d |     | PN<br>IFC | iO: Wid<br>Sain:Lo | e ↔<br>w | Trig: Free<br>#Atten: 3 |         | Avg Hold | : 100/10 | U     | DE                 | A NNNNN               |      | Auto Tune                  |
| Log<br>20.0  | Trac           | e 1 I | Pass |                 |     |           |                    |          |                         |         |          |          |       |                    |                       |      | Center Free<br>3.300000 MH |
| 10.0<br>0.00 |                |       |      |                 |     |           | ſ                  | ~~       | ~~~~                    | ~~~     | my       |          |       |                    |                       | 82   | Start Fre<br>1.800000 MH   |
| -10.0        |                |       |      |                 |     | E,        |                    |          |                         |         |          |          |       |                    |                       | 82   | Stop Fre<br>4.800000 MH    |
| -30.0        |                |       |      |                 |     |           |                    |          |                         |         |          | L        |       |                    |                       | Auto | CF Ste<br>300.000 k⊢<br>Ma |
| -50.0        | ~~             | ^     | ~~   | ·····           | ~~~ | ~         |                    |          |                         |         |          |          |       |                    | m                     |      | Freq Offso<br>0 ⊦          |
| -60.0        |                |       |      |                 |     |           |                    |          |                         |         |          |          |       |                    |                       |      |                            |
| #Re          | ter 82<br>s BW |       |      | Hz              |     |           | #\                 | /BW      | 62 kHz*                 |         |          |          |       | Span 3<br>067 ms ( | .000 MHz<br>1001 pts) |      |                            |
| MSG          |                |       |      |                 |     |           |                    |          |                         |         |          | S        | TATUS |                    |                       |      |                            |

#### Part 90\_Band 26\_16QAM\_1.4M\_RB1,0



#### Part 90\_Band 26\_16QAM\_1.4M\_RB1,5



#### Part 90\_Band 26\_16QAM\_1.4M\_RB6,0

| Ag<br>N RI   | ilent Spec   | trum Ar<br>RF |        |                 | C C |                           |                       | ENSE:INT        |          | ALIGN AU  |      | 00.01.00.0 | M Apr 27, 2018        |                              |
|--------------|--------------|---------------|--------|-----------------|-----|---------------------------|-----------------------|-----------------|----------|-----------|------|------------|-----------------------|------------------------------|
|              |              | RP            | 2      | 0.52 L          |     |                           |                       |                 | Avg Typ  | e: RMS    |      | TRAC       | E123456               | Frequency                    |
| PAS          | _            | Ref<br>Ref    | Offset | 13.6 c<br>0 dBi | iB  | PNO: Wide +<br>IFGain:Low | → Trig: Fi<br>#Atten: | ee Run<br>30 dB | Avg Hold | 1: 100/10 | 0    | TYF<br>DE  |                       | Auto Tur                     |
| 20.0         | Trace        | e 1 P         | ass    |                 | -   |                           |                       |                 |          |           |      |            |                       | Center Fre<br>814.700000 M   |
| 10.0<br>0.00 |              |               |        |                 |     | m                         |                       |                 | m        |           |      |            |                       | Start Fr<br>813.200000 M     |
| 10.0         |              |               |        |                 |     |                           |                       |                 |          |           |      |            |                       | Stop Fr<br>816.200000 M      |
| 30.0<br>40.0 |              |               |        |                 | ~~~ | $\square$                 |                       |                 |          | L         | _    |            |                       | CF St<br>300.000 k<br>Auto M |
| 50.0         | ~~~          | ~~            | ~~~    | ~~~             |     |                           |                       |                 |          |           | ~~   | ~~~        | ~~~~~                 | Freq Offs<br>0               |
| 60.0         |              |               |        |                 |     |                           |                       |                 |          |           |      |            |                       |                              |
| #Res         | ter 81<br>BW |               |        | Z               |     | #VB                       | W 62 kHz              | *               |          |           |      |            | .000 MHz<br>1001 pts) |                              |
| ISG          |              |               |        |                 |     |                           |                       |                 |          | ST        | ATUS |            |                       |                              |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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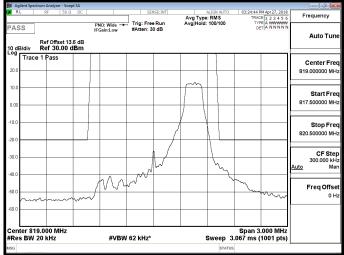


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### Part 90\_Band 26\_16QAM\_1.4M\_RB1,0

| 📕 Agilent Spec       | trum Analyzer - Swep                    | it SA      |                        |                         |              |           |         |   |                                  |                                 |
|----------------------|---|------------|------------------------|-------------------------|--------------|-----------|---------|---|----------------------------------|---------------------------------|
| X RL                 | RF 50 Ω                                 | DC         |                        | 1                       | (SE:INT      | Avg Type  |         | TRAC                                    | PM Apr 27, 2018<br>E 1 2 3 4 5 6 | Frequency                       |
| PASS                 | Ref Offset 13.<br>Ref 30.00 d           | IF<br>6 dB | NO: Wide ↔<br>Gain:Low | Trig: Free<br>#Atten: 3 | ≥Run<br>0 dB | Avg Hold: | 100/100 | DE                                      | ET A NNNN                        | Auto Tun                        |
| 20.0 Trac            | e 1 Pass                                |            |                        |                         |              |           |         |   |                                  | Center Fre<br>819.000000 MH     |
| 0.00                 |   |            |                        |                         |              |           |         |   |                                  | Start Fre<br>817.500000 MH      |
| 20.0                 |   |            |                        | l,                      |              |           |         |   |                                  | Stop Fre<br>820.500000 MH       |
| 30.0                 |   |            |                        | - h                     |              |           |         |   |                                  | CF Ste<br>300.000 ki<br>Auto Mi |
| 50.0                 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |            |                        |                         | www.         | ww        |         | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~ ~~~                            | Freq Offs                       |
| 60.0                 | _                                       |            |                        |                         |              |           |         |   | ~~~~                             |                                 |
| Center 81<br>#Res BW | 9.000 MHz<br>20 kHz                     | 1          | #VBW                   | 62 kHz*                 | 1            |           | Sweep   | Span 3<br>3.067 ms (                    | .000 MHz<br>1001 pts)            |                                 |
| ISG                  |   |            |                        |                         |              |           | STAT    | us                                      |                                  |                                 |

## Part 90\_Band 26\_16QAM\_1.4M\_RB1,5



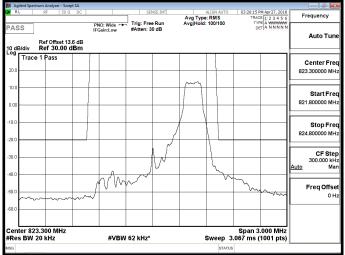
### Part 90\_Band 26\_16QAM\_1.4M\_RB6,0

|                | ilent Spec     |       |     |        |    |           |                    |           |  |               |          |     |        |         |                                   |      |                               |
|----------------|----------------|-------|-----|--------|----|-----------|--------------------|-----------|--|---------------|----------|-----|--------|---------|-----------------------------------|------|-------------------------------|
| UXU R          | L              | R     | F   | 50 Ω   | DC |           |                    |           | SEI                                    | NSE:INT       |          |     | N AUTO | TRA     | PM Apr 27, 2018<br>CE 1 2 3 4 5 6 |      | requency                      |
| PAS<br>10 di   |                |       |     | et 13. |    | PN<br>IFC | 10: Wid<br>Gain:Lo | e ⊶⊷<br>w | Trig: Free<br>#Atten: 3                | e Run<br>0 dB | Avg Hold |     |        | TY<br>D | PE Â ŴŴŴŴŴ<br>ET Â NNNN           |      | Auto Tune                     |
| 20.0           | Trace          | e 1 F | ass |        |    |           |                    |           |  |               |          |     |        |         |                                   |      | Center Freq<br>9.000000 MHz   |
| 10.0<br>0.00   |                |       |     |        |    |           | ſ                  | $\sim$    | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~~          | m        |     |        |         |                                   | 81   | Start Freq<br>7.500000 MHz    |
| -10.0<br>-20.0 |                |       |     |        |    |           |                    |           |  |               |          |     |        |         |                                   | 82   | Stop Freq<br>0.500000 MHz     |
| -30.0          |                |       | ~~~ | ~      | ~  |           |                    |           |  |               |          | ſ   | ~~~~   | m       |                                   | Auto | CF Step<br>300.000 kHz<br>Man |
| -50.0          | ~~             | ~     |     | ~      |    |           |                    |           |  |               |          |     |        |         | n                                 |      | Freq Offset<br>0 Hz           |
|                | ter 81<br>s BW |       |     | Hz     |    |           | #\                 | /BW       | 62 kHz*                                |               |          | Swe | en 3   | Span 3  | .000 MHz<br>(1001 pts)            |      |                               |
| MSG            |                |       |     |        |    |           |                    |           |  |               |          |     | STATUS |         |                                   | L    |                               |

### Part 90\_Band 26\_16QAM\_1.4M\_RB1,0



#### Part 90\_Band 26\_16QAM\_1.4M\_RB1,5



#### Part 90\_Band 26\_16QAM\_1.4M\_RB6,0

|           | um Analyzer - Swep            |       |                             |                         |           |                      |              |            |                |                              |
|-----------|-------------------------------|-------|-----------------------------|-------------------------|-----------|----------------------|--------------|------------|----------------|------------------------------|
| CX RL     | RF 50 Ω                       | DC    |                             | SEI                     | ISE:INT   | Avg Type             | ALIGN AUTO   | 03:26:261  | M Apr 27, 2018 | Frequency                    |
| PASS      | Ref Offset 13.<br>Ref 30.00 d | .6 dB | PNO: Wide +++<br>IFGain:Low | Trig: Free<br>#Atten: 3 | Run<br>dB | Avg Type<br>Avg Hold | : 100/100    | TY<br>Di   |                | Auto Tur                     |
| 20.0      | 1 Pass                        |       |                             |                         |           |                      |              |            |                | Center Fre<br>823.300000 Mi  |
| 0.00      |                               |       | $\sim$                      | v                       |           | m                    |              |            |                | Start Fr<br>821.800000 M     |
| 20.0      |                               |       |                             |                         |           |                      |              |            |                | Stop Fr<br>824.800000 M      |
| 40.0      |                               |       |                             |                         |           |                      | L            |            |                | CF St<br>300.000 k<br>Auto M |
| 50.0      | m                             | hand  |                             |                         |           |                      |              |            | ~~~~           | Freq Offs<br>0               |
|           | 8.300 MHz                     |       | #V/PW                       | eo 1-11-1               |           |                      |              |            | .000 MHz       |                              |
| #Res BW 2 | 20 kHz                        |       | #VBW                        | 62 kHz*                 |           |                      | Sweep<br>STA | 3.067 ms ( | 1001 pts)      |                              |

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f (886-2) 2298-0488

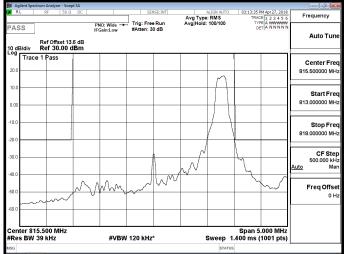


## Report No.: E2/2018/40066 Page 253 of 517

## Part 90\_Band 26\_QPSK\_3M\_RB1,0

|            | trum Analyzer - Swep          | ot SA        |                        |   |         |                      |           |  | - @ <b>*</b>                    |
|------------|-------------------------------|--------------|------------------------|---|---------|----------------------|-----------|--|---------------------------------|
| RL         | RF 50 Ω                       | DC           |                        | SEN                                     | ISE:INT | Avg Type<br>Avg Hold |           | 03:13:25 PM Apr 27, 2018<br>TRACE 1 2 3 4 5 6<br>TYPE A WWWW | Frequency                       |
| PASS       | Ref Offset 13.<br>Ref 30.00 d | iFi<br>.6 dB | NO: Wide ↔<br>Gain:Low | #Atten: 3                               |         | Avginoid             | . 100/100 | DET ANNNN  | Auto Tune                       |
| 20.0 Trace | e 1 Pass                      | m            |                        |   |         |                      |           |  | Center Free<br>815.500000 MH    |
| 0.00       |                               |              |                        |   |         |                      |           |  | Start Fre<br>813.000000 MH      |
| 20.0       |                               | /            |                        |   |         |                      |           |  | Stop Fre<br>818.000000 MH       |
| 10.0       |                               |              | Lon                    |   |         |                      |           |  | CF Ste<br>500.000 kH<br>Auto Ma |
| 50.0       |                               |              |                        | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | h       | -~~~                 | $\sim$    | h  | Freq Offs<br>0 F                |
| enter 81   | 5.500 MHz                     |              | #\/P\//                | 120 kHz'                                | 8       |                      | Swaan     | Span 5.000 MHz<br>1.400 ms (1001 pts)                        |                                 |
| sg         | JUNIZ                         |              | #VDVV                  | 120 882                                 |         |                      | Sweep     | ,  |                                 |

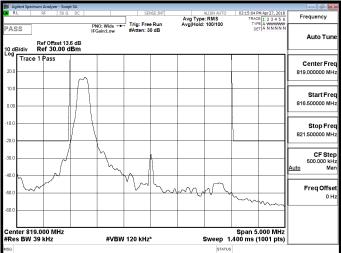
## Part 90\_Band 26\_QPSK\_3M\_RB1,14



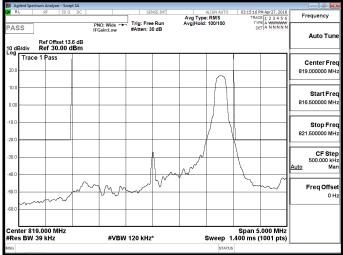
## Part 90\_Band 26\_QPSK\_3M\_RB15,0

|              | jilent Spe  |          |                 |                 |            |    |                     |     |           |         |         |                                    |     |        |                       |      |                             |
|--------------|-------------|----------|-----------------|-----------------|------------|----|---------------------|-----|-----------|---------|---------|------------------------------------|-----|--------|-----------------------|------|-----------------------------|
| (XI R        | L           | R        | F               | 50 Ω            | DC         |    |                     |     |           | ISE:INT | Avg Typ | ALIGN AUT<br>ce: RMS<br>d: 100/100 |     | TRAC   | M Apr 27, 2018        |      | Frequency                   |
| PAS          | SS<br>B/div | Re<br>Re | f Offs<br>ef 30 | et 13.<br>.00 d | 6 dB<br>Bm | PN | O: Wide<br>iain:Low |     | #Atten: 3 |         | Avginoi | a: 100/100                         |     | De     | A NNNN                |      | Auto Tune                   |
| 20.0         | Trac        | :e 1 I   | Pass            |                 |            |    |                     |     |           |         |         |                                    |     |        |                       | 8    | Center Free<br>15.500000 MH |
| 10.0<br>0.00 |             |          |                 |                 | ſ          | ~~ | ~~~                 | ~~  | ~~~~      |         |         | ~~~                                |     |        |                       | 8    | Start Fre<br>13.000000 MH   |
| -10.0        |             |          |                 |                 | ļ          |    |                     |     |           |         |         |                                    |     |        |                       | 8    | Stop Fre<br>18.000000 MH    |
| -30.0        |             | ~~       |                 | ~               | (          |    |                     |     |           |         |         |                                    | /   |        | ~~~~                  | Auto | CF Ste<br>500.000 kH<br>Ma  |
| -50.0        |             |          |                 |                 |            |    |                     |     |           |         |         |                                    |     |        |                       |      | Freq Offs<br>0 ⊦            |
|              | ter 8'      |          |                 | Hz              |            |    | #\/                 |     | 120 kHz   |         |         | Swaan                              | . 1 | Span 5 | .000 MHz<br>1001 pts) |      |                             |
| #RC<br>MSG   | 5 999       | 391      | NI 12           |                 |            |    | #VI                 | 246 | 120 802   |         |         |                                    | TUS |        | 1001 pts)             |      |                             |

## Part 90\_Band 26\_QPSK\_3M\_RB1,0



### Part 90\_Band 26\_QPSK\_3M\_RB1,14



#### Part 90\_Band 26\_QPSK\_3M\_RB15,0

| Agilent       | Spectrum  | Analyzer - Swe           | pt SA                 |                            |                        |               |           |            |                 |                | - 0                                   |
|---------------|-----------|--------------------------|-----------------------|----------------------------|------------------------|---------------|-----------|------------|-----------------|----------------|---------------------------------------|
| UM RL         |           | ¥F   50 Ω                |                       |                            |                        | NSE:INT       | Avg Type  | ALIGN AUTO | TRAC            | M Apr 27, 2018 | Frequency                             |
| PASS          | Re<br>v R | of Offset 13<br>of 30.00 | .6 dB<br>d <b>B</b> m | PNO: Wide ++<br>IFGain:Low | Trig: Fre<br>#Atten: 3 | e Run<br>0 dB | Avg Hold: | : 100/100  | TYP<br>DE       |                | Auto Tur                              |
| 20.0          | ace 1     | Pass                     |                       |                            |                        |               |           |            |                 |                | Center Fre<br>819.000000 MH           |
| 0.00          |           |                          | r                     |                            | ~~~~                   |               |           |            |                 |                | Start Fre<br>816.500000 M             |
| -10.0         |           |                          |                       |                            |                        |               |           |            |                 |                | Stop Fr<br>821.500000 M               |
| 30.0          | ~~~~      | ~~~                      | /                     |                            |                        |               |           |            |                 | ~~~~           | CF Ste<br>500.000 ki<br><u>Auto</u> M |
| 50.0          |           |                          |                       |                            |                        |               |           |            |                 |                | Freq Offs                             |
|               |           | 00 MHz                   |                       |                            |                        |               |           |            |                 | .000 MHz       |                                       |
| #Res B<br>MSG | W 39      | kHz                      |                       | #VBW                       | 120 kHz                | *             | 1         | Sweep '    | 1.400 ms (<br>• | 1001 pts)      |                                       |

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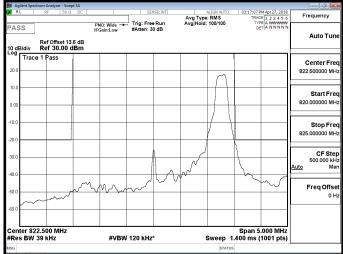


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## Part 90\_Band 26\_QPSK\_3M\_RB1,0

|              | Analyzer - Swept SA               |                            |            |        |                      |            |            |                |                                 |
|--------------|-----------------------------------|----------------------------|------------|--------|----------------------|------------|------------|----------------|---------------------------------|
| RL           | RF 50 Ω DC                        |                            | 1          | SE:INT | Avg Type<br>Avg Hold | ALIGN AUTO | TRAC       | M Apr 27, 2018 | Frequency                       |
|              | ef Offset 13.6 dB<br>ef 30.00 dBm | PNO: Wide ++<br>IFGain:Low | #Atten: 30 |        | Avginoia             | . 100/100  | DE         | ANNNN          | Auto Tun                        |
| 20.0 Trace 1 | Pass                              | ۱                          |            |        |                      |            |            |                | Center Fre<br>822.500000 MH     |
| 0.00         |                                   |                            |            |        |                      |            |            |                | Start Fre<br>820.000000 MH      |
| 20.0         |                                   |                            |            |        |                      |            |            |                | Stop Fre<br>825.000000 MH       |
| 10.0         |                                   | -                          |            |        |                      |            |            |                | CF Ste<br>500.000 kH<br>Auto Ma |
| 50.0         |                                   |                            |            | h      | m                    | ٨M         | h          | ~~~            | Freq Offs<br>0 ⊦                |
| enter 822.5  |                                   |                            |            |        |                      |            |            | 000 MHz        |                                 |
| Res BW 39    | kHz                               | #VBW                       | 120 kHz*   |        |                      | Sweep      | 1.400 ms ( | 1001 pts)      |                                 |

## Part 90\_Band 26\_QPSK\_3M\_RB1,14



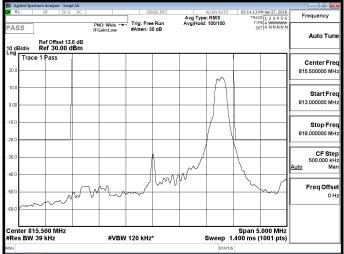
#### Part 90\_Band 26\_QPSK\_3M\_RB15,0

|                       | ilent Sp      | ectrum | Analyze | er - Swep | it SA |    |               |                |      |                        |              |   |          |           |   |            |                       |      | - @ ×                       |
|-----------------------|---------------|--------|---------|-----------|-------|----|---------------|----------------|------|------------------------|--------------|---|----------|-----------|---|------------|-----------------------|------|-----------------------------|
| LXU R                 | L             | F      | ¥F.     | 50 Ω      | DC    |    |               |                |      | SEI                    | SE:INT       | A | vg Type  | ALIGN AUT | 0 | 03:17:17 F | M Apr 27, 2018        |      | requency                    |
| PAS                   |               |        |         | et 13.    |       | 3  | PNO:<br>FGair | Wide ∺<br>∷Low |      | Trig: Fre<br>#Atten: 3 | eRun<br>0 dB | A | /g Hold: | : 100/100 |   | TYF        |                       |      | Auto Tune                   |
| 20.0                  | Trac          | ce 1   | Pass    |           |       | -  |               |                |      |                        |              |   |          |           |   |            |                       | 83   | Center Free<br>22.500000 MH |
| 10.0<br>0.00          |               |        |         |           | -1    | ~~ | ~             |                | ~~~  | ~~~~                   | ~~           |   | ~~~      |           |   |            |                       | 82   | Start Free<br>20.000000 MH  |
| -10.0                 |               |        |         |           | ]     |    |               |                |      |                        |              |   |          |           | Į |            |                       | 82   | Stop Fre<br>25.000000 MH    |
| -30.0                 |               | ~      |         | ]         |       |    |               |                |      |                        |              |   |          |           |   | h          | ~~~~~                 | Auto | CF Ste<br>500.000 k⊦<br>Ma  |
| -50.0                 |               |        |         |           |       |    |               |                |      |                        |              |   |          |           |   |            |                       |      | Freq Offso<br>0 ⊦           |
|                       | ter 8<br>s BW |        |         | Hz        |       |    |               | #\/P\          |      | 20 kHz                 |              |   |          |           | _ | Span 5     | .000 MHz<br>1001 pts) |      |                             |
| #Re<br><sup>MSG</sup> | 5 1974        | . 19   | κπΖ     |           |       |    |               | #VD1           | rw 1 | 20 882                 | -            |   |          | Sweep     |   |            | roor pts)             |      |                             |

## Part 90\_Band 26\_16QAM\_3M\_RB1,0



### Part 90\_Band 26\_16QAM\_3M\_RB1,14



#### Part 90\_Band 26\_16QAM\_3M\_RB15,0

|        |                  | Analyzer - Swi           |                        |               |           |         |                      |           |     |   |                              |
|--------|------------------|--------------------------|------------------------|---------------|-----------|---------|----------------------|-----------|-----|---|------------------------------|
| RL     |                  | RF 50 \$                 | 2 DC                   |               |           | NSE:INT | Avg Type<br>Avg Hold |           | TRA | PM Apr 27, 2018<br>CE 1 2 3 4 5 6<br>PE A WWWWW | Frequency                    |
| 0 dB/c |                  | ef Offset 13<br>ef 30.00 | 3.6 dB<br>d <b>B</b> m | PNO: Wide +++ | #Atten: 3 | 0 dB    | Avginoia             | . 100/100 | c   | ANNNN   | Auto Tur                     |
|        | Frace 1          | Pass                     |                        |               |           |         |                      |           |     |   | Center Fr<br>815.500000 M    |
| 0.0    |                  |                          | ſ                      | ~~~~~         | ~~~~      | ~~~~    |                      |           |     |   | Start Fr<br>813.000000 M     |
| 0.0    |                  |                          |                        |               |           |         |                      |           |     |   | Stop Fr<br>818.000000 M      |
| 0.0    |                  | m                        | -                      |               |           |         |                      |           | h   | · · · · ·                                       | CF St<br>500.000 k<br>Auto M |
|        | v o              |                          |                        |               |           |         |                      |           |     |   | Freq Offs<br>0               |
| 0.0    | - 045 5          |                          |                        |               |           |         |                      |           |     |   |                              |
|        | r 815.5<br>BW 39 | 00 MHz<br>kHz            |                        | #VBW          | 120 kHz   | *       |                      | Sweep     |     | 5.000 MHz<br>(1001 pts)                         |                              |
| SG     |                  |                          |                        |               |           |         |                      | STAT      | us  |   |                              |

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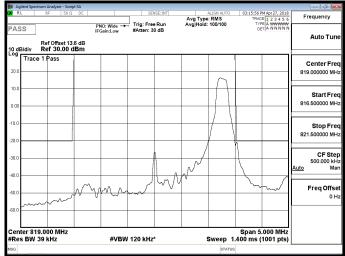


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### Part 90\_Band 26\_16QAM\_3M\_RB1,0

|                                     | Analyzer - Swept SA            |           |                       |                          |         |           |         |                      |  | - 0 -                                   |
|-------------------------------------|--------------------------------|-----------|-----------------------|--------------------------|---------|-----------|---------|----------------------|--|---|
| UXIRL F                             | RF 50Ω 0                       | DC        |                       | 1                        | ISE:INT | Avg Type  | RMS     | TRAC                 | M Apr 27, 2018<br>E 1 2 3 4 5 6        | Frequency                               |
| 10 dB/div Re                        | f Offset 13.6 c<br>of 30.00 dB | IFC<br>dB | Ю: Wide ↔<br>Gain:Low | Trig: Free<br>#Atten: 30 |         | Avg Hold: | 100/100 | DE                   |  | Auto Tune                               |
| 20.0                                | Pass                           | $\sim$    |                       |                          |         |           |         |                      |  | Center Fred<br>819.000000 MHz           |
| 0.00                                |                                |           |                       |                          |         |           |         |                      |  | Start Frec<br>816.500000 MH;            |
| -10.0                               |                                |           |                       |                          |         |           |         |                      |  | Stop Free<br>821.500000 MH              |
| -30.0                               |                                |           | Ly                    |                          |         |           |         |                      |  | CF Stej<br>500.000 kH<br><u>Auto</u> Ma |
| -50.0                               |                                |           |                       | ~~~~                     | 4       | ~~^/      |         | m                    | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Freq Offse                              |
| -60.0<br>Center 819.0<br>#Res BW 39 |                                |           | #\/P\//               | 120 kHz'                 |         |           |         | Span 5<br>1.400 ms ( | .000 MHz                               |   |
| MSG                                 | N112                           |           | # 4 0 44              | 120 KH2                  |         |           | Sweep   |                      | roor prsj                              | I                                       |

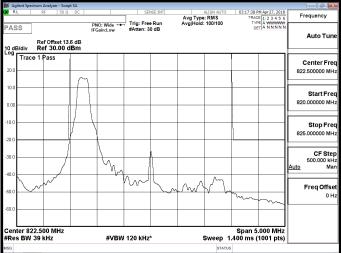
### Part 90\_Band 26\_16QAM\_3M\_RB1,14



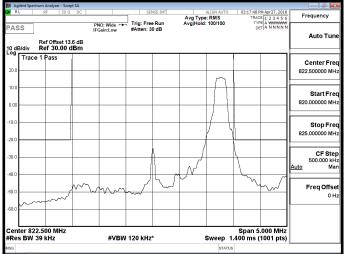
#### Part 90\_Band 26\_16QAM\_3M\_RB15,0

|                    | jilent Spec    |          |                 |                 |            |     |                      |    |           |        |                     |           |     |                      |   |      | - 0 🖉 🗾                        |
|--------------------|----------------|----------|-----------------|-----------------|------------|-----|----------------------|----|-----------|--------|---------------------|-----------|-----|----------------------|---|------|--------------------------------|
| <mark>(XI</mark> R | L              | R        | F               | 50 Ω            | DC         |     |                      | _  |           | SE:INT | Avg Typ<br>Avg Hold | ALIGN AUT | 0   | TRAC                 | M Apr 27, 2018<br>E 1 2 3 4 5 6<br>E A WWWW |      | Frequency                      |
| PAS<br>10 d        | B/div          | Re<br>Re | f Offs<br>ef 30 | et 13.<br>.00 d | 6 dB<br>Bm | IFC | iO: Wide<br>Gain:Lov | v  | #Atten: 3 | 0 dB   | Avginoid            | : 100/100 |     | DE                   | ANNNN                                       |      | Auto Tune                      |
| 20.0               | Trac           | e 1 I    | Pass            |                 |            |     |                      |    |           |        |                     |           |     |                      |   | 8    | Center Freq<br>19.000000 MHz   |
| 10.0               |                |          |                 |                 | ſ          | ~~~ | ~~~                  | ~~ | ~~~~      |        |                     |           |     |                      |   | 8'   | Start Freq<br>16.500000 MHz    |
| -10.0<br>-20.0     |                |          |                 |                 | J          |     |                      |    |           |        |                     |           | ł   |                      |   | 82   | Stop Freq<br>21.500000 MHz     |
| -30.0              | ~              | ~        | ^ــ             | لہ              |            |     |                      |    |           |        |                     |           | 1   | \~~                  | ~~~~~                                       | Auto | CF Step<br>500.000 kHz<br>Man  |
| -50.0              |                |          |                 |                 |            |     |                      |    |           |        |                     |           |     |                      |   |      | Freq Offset<br><sub>0 Hz</sub> |
|                    | ter 81<br>s BW |          |                 | Hz              |            |     | #V                   | вw | 120 kHz   | *      |                     | Sweep     | 1   | Span 5.<br>.400 ms ( | .000 MHz<br>1001 pts)                       |      |                                |
| MSG                |                |          |                 |                 |            |     |                      |    |           |        |                     | STA       | TUS |                      |   |      |                                |

### Part 90\_Band 26\_16QAM\_3M\_RB1,0



#### Part 90\_Band 26\_16QAM\_3M\_RB1,14



#### Part 90\_Band 26\_16QAM\_3M\_RB15,0

| M Agilent S |       |                    | - Swep<br>50 Ω | DC DC          |             |                     | 0.00                    | NSE:INT |          | ALIGN AUTO | 0.00    | 7:58 PM Apr 27, 2018 |                                       |
|-------------|-------|--------------------|----------------|----------------|-------------|---------------------|-------------------------|---------|----------|------------|---------|----------------------|---------------------------------------|
|             |       | KP-                | 20.75          | DC             |             |                     | SEI                     | NSEIINI | Avg Type |            | 03:1    | TRACE 1 2 3 4 5 6    | Frequency                             |
| PASS        | R     | ef Offse<br>ef 30. | et 13.<br>00 d | 5 dB<br>Bm     | PNC<br>IFGa | ):Wide ↔<br>ain:Low | Trig: Free<br>#Atten: 3 |         | Avg Hold | 100/100    |         | DET A NNNN           | Auto Tun                              |
| 20.0 Tra    | ace 1 | Pass               |                |                |             |                     |                         |         |          |            |         |                      | Center Fre<br>822.500000 MH           |
| 0.00        |       |                    |                | ſ              | ~           | ~~~~                | ~~~~                    |         | ~~~~     | -          |         |                      | Start Fre<br>820.000000 M             |
| -10.0       |       |                    |                |                |             |                     |                         |         |          |            | t       |                      | Stop Fre<br>825.000000 Mi             |
| 30.0        |       |                    |                | ( <sup>1</sup> |             |                     |                         |         |          |            |         |                      | CF Ste<br>500.000 ki<br><u>Auto</u> M |
| 50.0        |       |                    |                |                |             |                     |                         |         |          |            |         |                      | Freq Offs<br>0                        |
| Center :    | 822.5 | 00 MH              | 47             |                |             |                     |                         |         |          |            | Sna     | in 5.000 MHz         |                                       |
| #Res B      |       |                    | 12             |                |             | #VBW                | 120 kHz                 | *       | :        |            | 1.400 r | ns (1001 pts)        |                                       |
| MSG         |       |                    |                |                |             |                     |                         |         |          | STAT       | us      |                      |                                       |

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f (886-2) 2298-0488

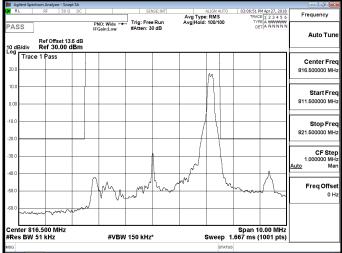


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## Part 90\_Band 26\_QPSK\_5M\_RB1,0

| Avg Type: RMS Trid: Free Run<br>AvgHold: 100/100 Trid: Free Run<br>AvgHold: 100/100 Trid: Free Run<br>AvgHold: 100/100 Trid: Free Run<br>Ref Offset 13.6 dB   Bef Offset 13.6 dB<br>Ref 30.00 dBm Trid: Free Run<br>Ref 30.00 dBm Trid: Free Run<br>Ref Offset 13.6 dB Trid: Free Run<br>Ref Offset 13.6 dB Trid: Free Run<br>Ref 0.00 dBm   0 dB/div Ref Offset 13.6 dB<br>Ref 30.00 dBm Trid: Free Run<br>Ref 30.00 dBm   0 dB/div Ref 0.00 dBm Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 0.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm   0 dB/div Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm | 🚺 Agilent Spectr | um Analyzer - Swe            |             |      |          |    |          |           | ,                         |                              |
|--|------------------|------------------------------|-------------|------|----------|----|----------|-----------|---------------------------|------------------------------|
| ALSS     Presint low     #Atten: 30 dB     Dert A NNNN     Auto Turn       0 dB/div     Ref Offset 13.6 dB     Center Free     816.50000 MF     816.50000 MF       0 dB/div     Ref offset 13.6 dB     Center Free     816.50000 MF     816.50000 MF       0 dB/div     Ref offset 13.6 dB     Center Free     816.50000 MF     816.50000 MF       0 dB/div     Ref offset 13.6 dB     Center Free     816.50000 MF     815.50000 MF       0 dB/div     Ref offset 13.6 dB     Center Free     815.50000 MF     821.50000 MF       0 dB/div     Center Free     815.50000 MF     Stop Free     821.50000 MF       0 dB/div     Center Free     81.50000 MF     Stop Free     821.50000 MF       0 dB/div     Center Free     81.50000 MF     Stop Free     821.50000 MF       0 dB/div     Center Free     81.50000 MF     Stop Free     821.50000 MF       0 dB/div     Center Free     Span 10.00 MHz     Span 10.00 MHz     Span 10.00 MHz       Res BW 51 KHz     #VBW 150 KHz*     Sweep 1.667 ms (1001 pts)     Span 10.00 MHz     Span 10.00 MHz     Span 10.00 MF     Span   | UN RL            | RF 50 Ω                      | DC          |      | 1        |    | Avg Type | e: RMS    | TRACE 1 2 3 4 5 6         | Frequency                    |
| Trace 1 Pass     Center Fre       200  | 10 dB/div        | Ref Offset 13<br>Ref 30.00 ( | ii<br>.6 dB |      |          |    | Avg Hold | : 100/100 | TYPEIA WWWW<br>DET A NNNN | Auto Tune                    |
| Start Fre       000     0  | 20.0 Trace       | 1 Pass                       |             | 1    |          |    |          |           |                           | Center Free<br>816.500000 MH |
| 20.0     Stop Free  | 0.00             |                              |             |      |          |    |          |           |                           | Start Fre<br>811.500000 MH   |
| 000     000 <td>20.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  | 20.0             |                              |             |      |          |    |          |           |                           |                              |
| ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰   | 40.0             |                              |             | L.   |          |    |          |           |                           | 1.000000 MH                  |
| Center 316.500 MHz Span 10.00 MHz<br>Res BW 51 kHz #VBW 150 kHz* Sweep 1.667 ms (1001 pts)   | 50.0             | James                        |             |      | ~~~      | MA | ww       | Ĥ         |                           |                              |
|  |                  |                              |             |      |          |    |          |           |                           |                              |
|  | #Res BW 5        | i1 kHz                       |             | #VBW | 150 kHz' |    |          |           |                           | 4 <u> </u>                   |

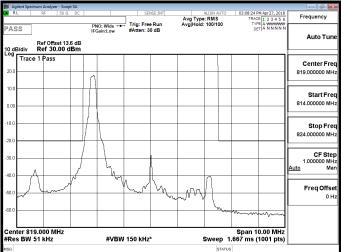
## Part 90\_Band 26\_QPSK\_5M\_RB1,24



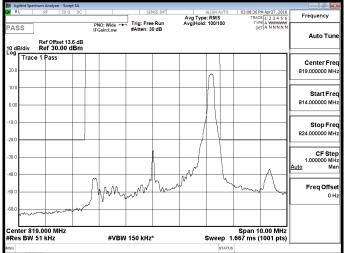
#### Part 90\_Band 26\_QPSK\_5M\_RB25,0

|                       | ilent Spec |            |                |              |          |   |                        |           |         |          |         |                 |          |   | - #  |
|-----------------------|------------|------------|----------------|--------------|----------|---|------------------------|-----------|---------|----------|---------|-----------------|----------|---|--|
| <b>LXI</b> R          | L          | RF         |                | 50 Ω         | DC       |   |                        |           | NSE:INT | Avg Type |         | S               | TRAC     | M Apr 27, 2018<br>E 1 2 3 4 5 6<br>E A WWWW | Frequency                                  |
| PAS                   |            | Ref<br>Ref | Offset<br>30.0 | 13.6<br>0 de | dB<br>3m |   | NO: Wide ↔<br>Sain:Low | #Atten: 3 | 0 dB    | Avg Hold | : 100/1 | 100             | De       | ANNNN                                       | Auto Tune                                  |
| 20.0                  | Trace      | e 1 P      | ass            |              |          |   |                        |           |         |          |         |                 |          |   | Center Freq<br>816.500000 MHz              |
| 10.0                  |            |            |                |              |          | ſ | ~~~~~                  | www       | ·····   |          | ~       |                 |          |   | Start Freq<br>811.500000 MHz               |
| -10.0<br>-20.0        |            |            |                |              |          |   |                        |           |         |          |         |                 |          |   | Stop Freq<br>821.500000 MHz                |
| -30.0<br>-40.0        |            | ~~         | ~~~            | w            | ~~l      |   |                        |           |         |          | ١       | \~~             | mm       | m   | CF Step<br>1.000000 MHz<br><u>Auto</u> Man |
| -50.0                 |            | _          |                |              |          |   |                        |           |         |          |         |                 |          |   | Freq Offset<br>0 Hz                        |
|                       | ter 81     |            |                | z            |          |   |                        |           |         |          |         |                 | Span 1   | 0.00 MHz                                    |  |
| #Re<br><sup>MSG</sup> | s BW       | 51 K       | HZ             |              |          |   | #VBV                   | V 150 kHz |         |          |         | ep 1.<br>status | 667 ms ( | 1001 pts)                                   |  |

## Part 90\_Band 26\_QPSK\_5M\_RB1,0



## Part 90\_Band 26\_QPSK\_5M\_RB1,24



#### Part 90\_Band 26\_QPSK\_5M\_RB25,0

|             |                   | ı Analyzer - Swi         |               |   |                        |           |         |                       |        |       |      |  |                               |
|-------------|-------------------|--------------------------|---------------|---|------------------------|-----------|---------|-----------------------|--------|-------|------|--|-------------------------------|
| RL          |                   | RF 50 Ω                  | 2 DC          | _ |                        | SEI       | ISE:INT | Avg Type<br>Avg Hold: |        |       | TRAC | M Apr 27, 2018<br>E 1 2 3 4 5 6<br>E A WWWWW | Frequency                     |
| PAS         | R                 | ef Offset 13<br>ef 30.00 | 3.6 dB<br>dBm |   | IO: Wide ↔<br>Sain:Low | #Atten: 3 | ) dB    | Avginoid.             | 100/10 | v     | DE   | ANNNN  | Auto Tur                      |
| og<br>20.0  | Trace 1           | Pass                     |               |   |                        |           |         |                       |        |       |      |  | Center Fr<br>819.000000 M     |
| 0.0<br>1.00 |                   |                          |               | ŕ | www.w                  | ~~~~      |         |                       |        |       |      |  | Start Fr<br>814.000000 M      |
| 0.0<br>0.0  |                   |                          |               |   |                        |           |         |                       |        |       |      |  | Stop Fr<br>824.000000 M       |
| 0.0         | s-v-v-            |                          | m             |   |                        |           |         |                       |        | w     |      | ~~~~   | CF St<br>1.000000 M<br>Auto M |
| 0.0         |                   |                          |               |   |                        |           |         |                       |        |       |      |  | Freq Offs<br>0                |
| i0.0        | 040.0             |                          |               |   |                        |           |         |                       |        |       | 0    |  |                               |
|             | er 819.0<br>BW 51 | 00 MHz<br>kHz            |               |   | #VBW                   | 150 kHz   | •       | 5                     | Sweej  | p 1.  |      | 0.00 MHz<br>1001 pts)                        |                               |
| SG          |                   |                          |               |   |                        |           |         |                       | ST     | TATUS |      |  |                               |

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