# Appendix C: Test Data for E-UTRA Band 5

## Product Name: LTE GSM/WCDMA Smartphone **Trade Mark: DOOGEE** Test Model: S70

**Environmental Conditions** 

| Temperature:       | 23.6        |
|--------------------|-------------|
| Relative Humidity: | 52.1        |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | Mina.Xu     |
| Supervised by:     | Jayden Zhuo |

## **C.1 Conducted Output Power**

|            |         | Conducted   | Output Pow | ver Test Result (Channel Band | width: 1.4 MHz)     |         |
|------------|---------|-------------|------------|-------------------------------|---------------------|---------|
| Modulation | Channel | RB Con      | figuration | Average Power [dBm]           | Average Power [dBm] | Vardiat |
| Modulation | Channel | Size Offset |            | QPSK                          | 16QAM               | Verdict |
|            |         | 1           | 0          | 21.75                         | 21.00               | PASS    |
|            |         | 1           | 3          | 21.87                         | 21.15               | PASS    |
|            |         | 1           | 5          | 21.77                         | 21.01               | PASS    |
|            | LCH     | 3           | 0          | 21.84                         | 21.00               | PASS    |
|            |         | 3           | 2          | 21.85                         | 20.98               | PASS    |
|            |         | 3           | 3          | 21.81                         | 20.96               | PASS    |
|            |         | 6           | 0          | 20.82                         | 19.78               | PASS    |
|            |         | 1           | 0          | 21.82                         | 21.20               | PASS    |
|            |         | 1           | 3          | 21.85                         | 21.34               | PASS    |
| QPSK /     |         | 1           | 5          | 21.83                         | 21.17               | PASS    |
| 16QAM      | MCH     | 3           | 0          | 21.89                         | 20.88               | PASS    |
| TOQAIN     |         | 3           | 2          | 21.87                         | 20.91               | PASS    |
|            |         | 3           | 3          | 21.88                         | 20.92               | PASS    |
|            |         | 6           | 0          | 20.79                         | 19.80               | PASS    |
|            |         | 1           | 0          | 21.80                         | 21.09               | PASS    |
|            |         | 1           | 3          | 21.96                         | 21.36               | PASS    |
|            |         | 1           | 5          | 21.82                         | 21.10               | PASS    |
|            | HCH     | 3           | 0          | 21.91                         | 20.97               | PASS    |
|            |         | 3           | 2          | 21.97                         | 21.00               | PASS    |
|            |         | 3           | 3          | 21.93                         | 21.01               | PASS    |
|            |         | 6           | 0          | 20.84                         | 20.02               | PASS    |

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|            |         | Conducte                                       | d Output Pov | dwidth: 3 MHz)      |                     |           |      |
|------------|---------|--|--------------|---------------------|---------------------|-----------|------|
|            | Channel | RB Configuration           Size         Offset |              | Average Power [dBm] | Average Power [dBm] | \/e ndiet |      |
| Modulation | Channel |  |              | QPSK                | 16QAM               | Verdict   |      |
|            |         | 1  | 0            | 21.82               | 21.10               | PASS      |      |
|            |         | 1  | 7            | 21.93               | 21.29               | PASS      |      |
|            |         | 1  | 14           | 21.80               | 21.04               | PASS      |      |
|            | LCH     | 8  | 0            | 20.82               | 19.91               | PASS      |      |
|            |         | 8  | 4            | 20.87               | 19.97               | PASS      |      |
|            |         | 8  | 7            | 20.81               | 19.92               | PASS      |      |
|            |         | 15   | 0            | 20.75               | 19.82               | PASS      |      |
|            | МСН     | 1  | 0            | 21.79               | 21.09               | PASS      |      |
|            |         | 1  | 7            | 22.15               | 21.35               | PASS      |      |
| QPSK /     |         |  | 1            | 14                  | 21.84               | 21.11     | PASS |
| 16QAM      |         | 8  | 0            | 20.81               | 19.95               | PASS      |      |
| IOQAIVI    |         | 8  | 4            | 20.92               | 20.06               | PASS      |      |
|            |         | 8  | 7            | 20.88               | 19.97               | PASS      |      |
|            |         | 15   | 0            | 20.84               | 19.90               | PASS      |      |
|            |         | 1  | 0            | 21.85               | 21.20               | PASS      |      |
|            |         | 1  | 7            | 22.30               | 21.43               | PASS      |      |
|            |         | 1  | 14           | 21.85               | 21.28               | PASS      |      |
|            | НСН     | 8  | 0            | 20.86               | 19.89               | PASS      |      |
|            |         | 8  | 4            | 20.92               | 19.92               | PASS      |      |
|            |         | 8  | 7            | 20.82               | 19.87               | PASS      |      |
|            |         | 15   | 0            | 20.83               | 19.89               | PASS      |      |

|                 |         | Conducted Output Power Test Result (Channel Bandwidth: 5 MHz) |            |                     |                     |         |       |      |
|-----------------|---------|---|------------|---------------------|---------------------|---------|-------|------|
| Modulation      | Channel |   | figuration | Average Power [dBm] | Average Power [dBm] | Verdict |       |      |
|                 |         | Size  | Offset     | QPSK                | 16QAM               |         |       |      |
|                 |         | 1   | 0          | 21.72               | 21.11               | PASS    |       |      |
|                 |         | 1   | 12         | 22.08               | 21.41               | PASS    |       |      |
|                 |         | 1   | 24         | 21.66               | 21.08               | PASS    |       |      |
|                 | LCH     | 12  | 0          | 20.71               | 19.93               | PASS    |       |      |
|                 |         | 12  | 6          | 20.83               | 20.04               | PASS    |       |      |
|                 |         | 12  | 13         | 20.73               | 19.95               | PASS    |       |      |
|                 |         | 25  | 0          | 20.77               | 19.81               | PASS    |       |      |
|                 |         | 1   | 0          | 21.74               | 21.16               | PASS    |       |      |
|                 | МСН     | 1   | 12         | 22.10               | 21.67               | PASS    |       |      |
|                 |         | МСН   |            | 1                   | 24                  | 21.76   | 21.15 | PASS |
| QPSK /<br>16QAM |         |   | 12         | 0                   | 20.81               | 20.03   | PASS  |      |
| TOQAIN          |         | 12  | 6          | 20.88               | 20.16               | PASS    |       |      |
|                 |         | 12  | 13         | 20.89               | 20.11               | PASS    |       |      |
|                 |         | 25  | 0          | 20.93               | 20.01               | PASS    |       |      |
|                 |         | 1   | 0          | 21.76               | 20.81               | PASS    |       |      |
|                 |         | 1   | 12         | 21.97               | 21.16               | PASS    |       |      |
|                 |         | 1   | 24         | 21.77               | 20.82               | PASS    |       |      |
|                 | НСН     | 12  | 0          | 20.86               | 20.00               | PASS    |       |      |
|                 |         | 12  | 6          | 20.90               | 20.02               | PASS    |       |      |
|                 |         | 12  | 13         | 20.71               | 19.88               | PASS    |       |      |
|                 |         | 25  | 0          | 20.86               | 19.94               | PASS    |       |      |

|            |                  | Conducted Output Power Test Result (Channel Bandwidth: 10 MHz) |            |                     |                     |         |       |      |
|------------|------------------|--|------------|---------------------|---------------------|---------|-------|------|
| Modulation | Channel          | RB Con   | figuration | Average Power [dBm] | Average Power [dBm] | Vardiat |       |      |
| wooulation | Iulation Channel |  | Offset     | QPSK                | 16QAM               | Verdict |       |      |
|            |                  | 1  | 0          | 21.79               | 21.13               | PASS    |       |      |
|            |                  | 1  | 24         | 22.04               | 21.33               | PASS    |       |      |
|            |                  | 1  | 49         | 21.77               | 21.10               | PASS    |       |      |
|            | LCH              | 25   | 0          | 20.93               | 19.96               | PASS    |       |      |
|            |                  | 25   | 12         | 20.84               | 19.95               | PASS    |       |      |
|            |                  | 25   | 25         | 20.79               | 19.87               | PASS    |       |      |
|            |                  | 50   | 0          | 20.84               | 19.85               | PASS    |       |      |
|            |                  | 1  | 0          | 21.76               | 21.09               | PASS    |       |      |
|            | МСН              | 1  | 24         | 22.02               | 21.34               | PASS    |       |      |
| QPSK /     |                  |  |            | 1                   | 49                  | 21.85   | 21.10 | PASS |
| 16QAM      |                  | 25   | 0          | 20.87               | 19.94               | PASS    |       |      |
| TOQAIM     |                  | 25   | 12         | 20.91               | 19.94               | PASS    |       |      |
|            |                  | 25   | 25         | 21.00               | 20.06               | PASS    |       |      |
|            |                  | 50   | 0          | 20.96               | 19.99               | PASS    |       |      |
|            |                  | 1  | 0          | 21.80               | 21.19               | PASS    |       |      |
|            |                  | 1  | 24         | 22.02               | 21.45               | PASS    |       |      |
|            |                  | 1  | 49         | 21.85               | 21.25               | PASS    |       |      |
|            | HCH              | 25   | 0          | 20.86               | 19.97               | PASS    |       |      |
|            |                  | 25   | 12         | 20.89               | 19.95               | PASS    |       |      |
|            |                  | 25   | 25         | 20.77               | 19.84               | PASS    |       |      |
|            |                  | 50   | 0          | 20.85               | 19.94               | PASS    |       |      |

### C.2 Peak-to-Average Ratio

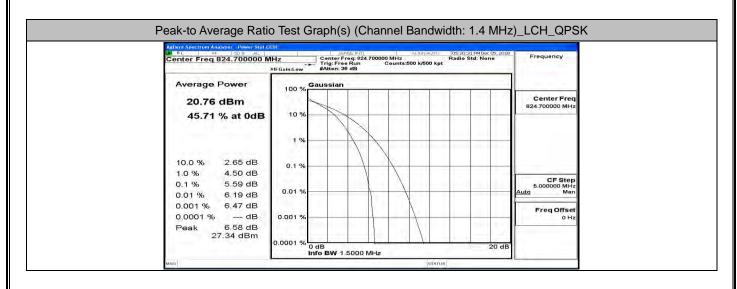
|            | Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz) |                       |       |         |  |  |
|------------|--|-----------------------|-------|---------|--|--|
| Modulation | Channel  | Peak-to-Average Ratio | Limit | Verdict |  |  |
| Modulation | Channel  | [dB]                  |       | Verdict |  |  |
|            | LCH  | 5.59                  | <13   | PASS    |  |  |
| QPSK       | MCH  | 5.72                  | <13   | PASS    |  |  |
|            | НСН  | 5.51                  | <13   | PASS    |  |  |
|            | LCH  | 6.51                  | <13   | PASS    |  |  |
| 16QAM      | MCH  | 6.7                   | <13   | PASS    |  |  |
|            | НСН  | 6.5                   | <13   | PASS    |  |  |

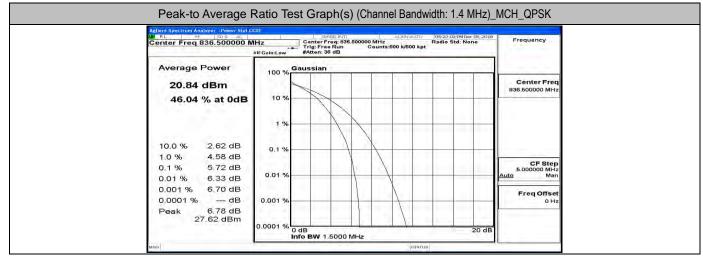
|            | Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz) |                       |       |         |  |  |
|------------|--|-----------------------|-------|---------|--|--|
| Modulation | Channel  | Peak-to-Average Ratio | Limit | Verdict |  |  |
| wouldton   | Channel  | [dB]                  | [dB]  | Verdict |  |  |
|            | LCH  | 5.56                  | <13   | PASS    |  |  |
| QPSK       | MCH  | 5.72                  | <13   | PASS    |  |  |
|            | HCH  | 5.65                  | <13   | PASS    |  |  |
|            | LCH  | 6.45                  | <13   | PASS    |  |  |
| 16QAM      | MCH  | 6.67                  | <13   | PASS    |  |  |
|            | HCH  | 6.43                  | <13   | PASS    |  |  |

|            | Peak-to Average Ra | atio Test Result (Channel | Bandwidth: 5 MHz) |         |
|------------|--------------------|---------------------------|-------------------|---------|
| Modulation | Channel            | Peak-to-Average Ratio     | Limit             | Verdict |
| Modulation | Channel            | [dB]                      | [dB]              | Verdict |
|            | LCH                | 5.56                      | <13               | PASS    |
| QPSK       | MCH                | 5.75                      | <13               | PASS    |
|            | НСН                | 5.63                      | <13               | PASS    |
|            | LCH                | 6.39                      | <13               | PASS    |
| 16QAM      | MCH                | 6.54                      | <13               | PASS    |
|            | НСН                | 6.46                      | <13               | PASS    |

| Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz) |                         |                       |       |         |  |
|---|-------------------------|-----------------------|-------|---------|--|
| Modulation  | Modulation Channel Peak | Peak-to-Average Ratio | Limit | Verdict |  |
| Modulation  | Channel                 | [dB]                  | [dB]  | verdict |  |
|   | LCH                     | 5.58                  | <13   | PASS    |  |
| QPSK  | MCH                     | 5.78                  | <13   | PASS    |  |
| -   | НСН                     | 5.66                  | <13   | PASS    |  |
|   | LCH                     | 6.36                  | <13   | PASS    |  |
| 16QAM   | MCH                     | 6.45                  | <13   | PASS    |  |
|   | НСН                     | 6.37                  | <13   | PASS    |  |

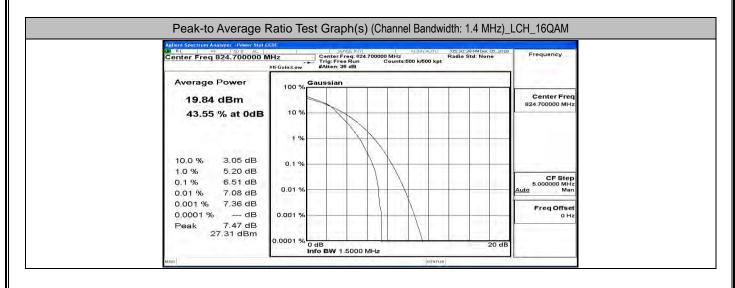
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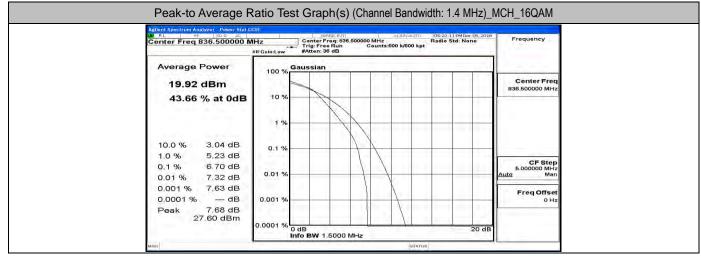




| Center Freq B48.300000 MHz         Center Freq S48.300000 MHz         Radio Std: None           Average Power         20.84 dBm         100 %         Caussian         Center Freq S48.30000 MHz         Center Freq S48.30000 MHz           100 %         20.84 dBm         10 %         10 %         Center Freq S48.30000 MHz         Center Freq S48.30000 MHz           100 %         Caussian         Center Freq S48.30000 MHz         Center Freq S48.30000 MHz         Center Freq S48.30000 MHz           10.0 %         2.62 dB         0.1 %         0.1 %         S.51 dB         0.1 %           0.01 %         6.05 dB         0.01 %         0.01 %         Freq Offset         Auto           0.001 %         0.001 %         0.001 %         0.001 %         0.001 %         0.001 % | SENSE:INT ALIGNAUTO 05:2     | 29:32 PMDec 05, 2018   | requency  |
|--|------------------------------|--|---|
| Average Power         Caussian           20.84 dBm         100 %           46.30 % at 0dB         10 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         1 %           10 %         0.1 %           0.1 %         0.1 %           0.01 %         0.01 %           0.001 %         0.001 %           0.001 %         0.001 %           Peak         6.35 dB           27 19 dBm         0.001 %  | ree Run Counts:500 k/500 kpt | o Std: None  | requency  |
| 20.84 dBm         100 %         Center Freq<br>848.30000 MHz           46.30 % at 0dB         10 %         10 %           10.0 %         2.62 dB         0.1 %           10.0 %         4.47 dB         0.1 %           0.01 %         6.05 dB         0.01 %           0.001 %         6.26 d B         0.01 %  | 1 36 dB                      |  |   |
| 20.84 dBm         10 %         Center Freq<br>848.300000 MHz           46.30 % at 0dB         10 %         1 %           10.0 % 2.62 dB         0.1 %         1 %           10.0 % 2.62 dB         0.1 %         5.51 dB           0.01 % 6.05 dB         0.01 %         5.00000 MHz           0.001 % 6.26 dB         0.01 %         Freq Offset           0.001 % 6.26 dB         0.001 %         0.001 %           0.001 % 6.26 dB         0.001 %         0.001 %  | an                           |  |   |
| 46.30 % at 0dB       10 %         10.0 %       2.62 dB         11 %       1 %         10.0 %       2.62 dB         0.1 %       0.1 %         0.1 %       5.51 dB         0.01 %       6.05 dB         0.01 %       6.26 dB         0.001 %       6.26 dB         0.001 %       6.35 dB         27 19 dEm   |                              |  |   |
| 10.0 %         2.62 dB         0.1 %           1.0 %         4.47 dB   |                              |  |   |
| 10.0 %         2.62 dB         0.1 %           1.0 %         4.47 dB         0.1 %           0.1 %         5.51 dB         0.01 %           0.01 %         6.05 dB         0.01 %           0.001 %         6.26 dB         0.001 %           0.000 %         - dB         0.001 %           Peak         6.35 dB         0.001 %  |                              |  |   |
| 1.0 %         4.47 dB         0.1 %           0.1 %         5.51 dB         0.01 %           0.01 %         6.05 dB         0.01 %           0.001 %         6.26 dB         0.001 %           0.0001 %         - dB         0.001 %           Peak         6.35 dB         0.001 %  |                              |  |   |
| 1.0 %         4.47 dB         0.1 %           0.1 %         5.51 dB         0.01 %           0.01 %         6.05 dB         0.01 %           0.001 %         6.26 dB         0.001 %           0.0001 %         - dB         0.001 %           Peak         6.35 dB         0.001 %  |                              |  |   |
| 1.0 %         4.47 dB           0.1 %         5.51 dB           0.01 %         6.05 dB           0.001 %         6.26 dB           0.0001 %         - dB           0.001 %         - dB  |                              |  |   |
| 0.11 % 5.51 dB 0.01 %<br>0.01 % 6.05 dB 0.01 %<br>0.001 % 6.26 dB<br>0.0001 % - dB 0.001 %<br>Peak 6.35 dB<br>27 19 dBm  |                              |  | OF OLAS   |
| 0.001 % 6.05 dB<br>0.001 % 6.26 dB<br>0.0001 % - dB 0.001 %<br>Peak 6.35 dB<br>27 19 dBm   |                              |  | 5.000000 MHz  |
| 0,0001 % dB 0.001 % 0Hz 0Hz  |                              | Auto   | Man   |
| Peak 6.35 dB   |                              | 10 I I I I I I I I I I I I I I I I I I I   |   |
| 27 19 dBm  |                              |  | 0 Hz  |
|  |                              |  |   |
|  | nte<br>j: F<br>ten           | nter Freq: 848,300000 MHz Radi<br>g: Free Run Counts:500 k/500 kpt<br>ten: 36 dB | Padio Std: None<br>Padio |

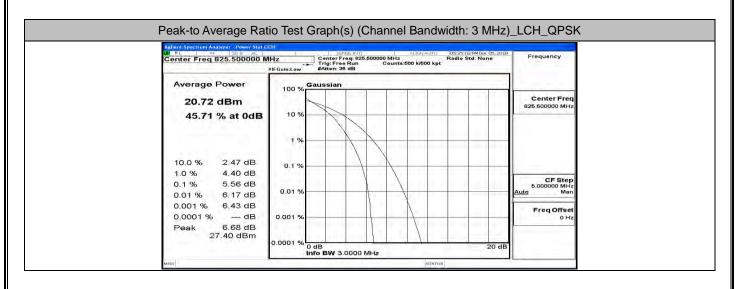
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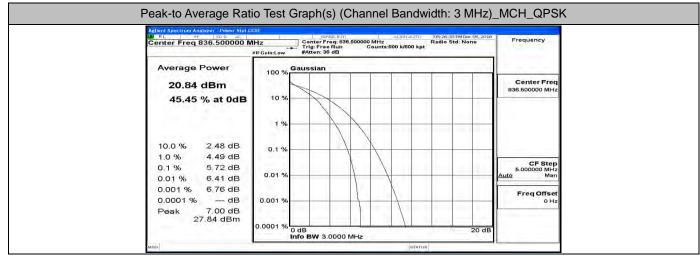




| RL RF SD Q AC                  | CDF SENSE                             | INT ALIGN                             | AUTO 05:29:40 PMDec  | 05,2018        |          |
|--------------------------------|---------------------------------------|---------------------------------------|--|----------------|----------|
| Center Freq 848.300000 M       | AHz Center Free<br>Trig: Free R       | : 848,300000 MHz<br>un Counts:500 k/5 | Radio Std: Nor   | e Freque       | ncy      |
|                                | #IFGain:Low #Atten: 36 d              | 8                                     |  |                |          |
| Average Power                  | 100 % Gaussian                        |                                       |  |                |          |
| 19.96 dBm                      |                                       |                                       |  |                | er Freq  |
| 43.59 % at 0dB                 | 10 %                                  |                                       |  | 848,3000       | JOO MIHZ |
|                                | X                                     |                                       |  |                |          |
| 1.1.2.2.2.2                    | 1 %                                   |                                       | the state of the s |                |          |
| and the second                 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | VV                                    | 1  | 10.00          |          |
| 10.0 % 3.01 dB                 | 0.1 %                                 |                                       |  |                |          |
| 1.0 % 5.17 dB                  | 4.1.18                                |                                       | 1  | -              | F Step   |
| 0.1 % 6.50 dB                  | 0.01 %                                |                                       |  | 5.0000<br>Auto | Man      |
| 0.01 % 7.14 dB                 | 0.01 %                                |                                       |  | Add            | warr     |
| 0.001 % 7.32 dB<br>0.0001 % dB |                                       |                                       |  | Freq           | Offset   |
| Peak 7.40 dB                   | 0.001 %                               |                                       |  |                | 0 Hz     |
| 27.26 dBm                      |                                       |                                       | the second second  |                |          |
| 1.201000                       | 0.0001 % 0 dB                         |                                       |  | 20 dB          |          |
|                                | 0.0001 % 0 dB<br>Info BW 1.50         | 00 MHz                                |  | 20 dB          |          |

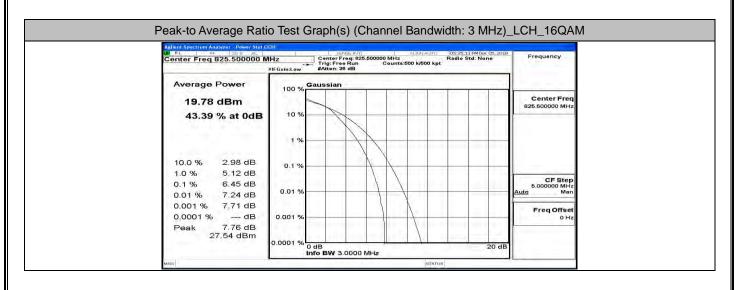
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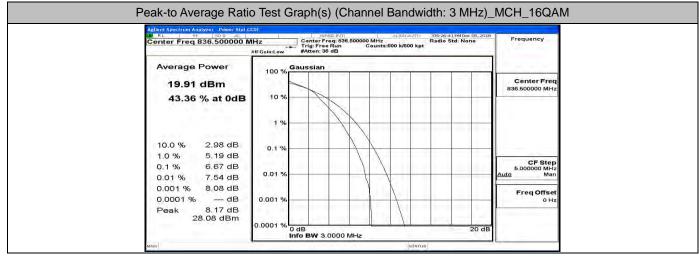




| LW RL RF 50 Q AC               | (D)  | SENSE:INT          | ALIGNAUTO                  | 05:28:01 PMDec 05, 2018 |                               |
|--------------------------------|--|--------------------|----------------------------|-------------------------|-------------------------------|
| Center Freq 847.500000 N       | AHz Cente  | r Freq: 847.500000 | MHz<br>ounts:500 k/500 kpt | Radio Std: None         | Frequency                     |
| 1. 1. 1. 1. 1. THOLE           | 100000000000000000000000000000000000000  |                    |                            |                         |                               |
| Average Power                  | 100 % Gaussia  | in                 |                            |                         |                               |
| 20.83 dBm                      |  |                    |                            |                         | Center Freq<br>847.500000 MHz |
| 45.72 % at 0dB                 | 10 %   |                    |                            |                         | 547.555000 MITZ               |
| 10000                          |  |                    |                            |                         |                               |
|                                | 1 %  | NN                 |                            |                         |                               |
| a star hand a second and       | and the second sec |                    |                            |                         |                               |
| 10.0 % 2.48 dB                 | 0.1 %  |                    | \                          |                         |                               |
| 1.0 % 4.45 dB                  |  |                    |                            |                         | CF Step                       |
| 0.1 % 5.65 dB                  | 0.01 %   |                    |                            |                         | 5.000000 MHz<br>Auto Man      |
| 0.01 % 6.29 dB                 |  |                    | X                          |                         | - SALE TOMIT                  |
| 0.001 % 6.61 dB<br>0.0001 % dB | 0.001 %  |                    |                            |                         | Freq Offset<br>0 Hz           |
| Peak 6.80 dB                   | 0.001 %  |                    |                            |                         | 0 Hz                          |
| 27 63 dBm                      | 1917-1119-111  | 1.000              |                            |                         |                               |
|                                | 0.0001 % 0 dB  | 3.0000 MHz         |                            | 20 dB                   |                               |
| ine l                          |  | 0.0000 10112       | STATUS                     |                         |                               |

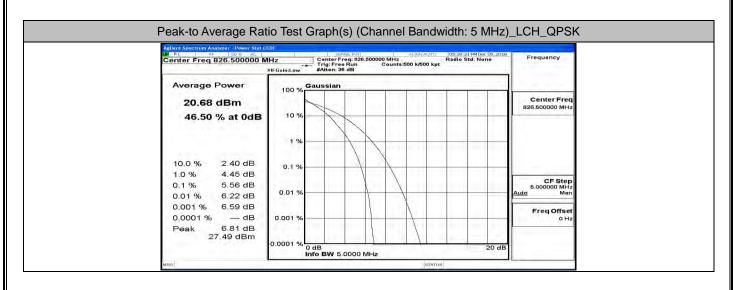
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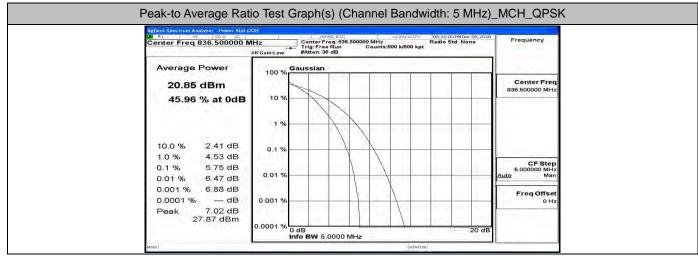




|                                 | eitert Section Andyzer - Drever Stat ECDT<br>IRL 94 120 AC C SERVER INT - AUGUAUTO (05:32:00 MMDec 05, 2018)<br>Eenter Freq 847,500000 MHz Center Freq 847,50000 MHz Radio Std: None<br>Center Freq 847,50000 MHz Center Statistics (05:05:00 kpt) |  |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|--|
|                                 | IFGain:Low #Atten: 36 dB   |  |  |  |  |  |  |
| Average Power<br>19.90 dBm      | 100 % Gaussian   | Center Freq<br>847.500000 MHz              |  |  |  |  |  |
| 43.33 % at 0dB                  | 10 %   |  |  |  |  |  |  |
|                                 | 1 %  |  |  |  |  |  |  |
| 10.0 % 2.96 dB<br>1.0 % 5.09 dB | 0.1 %  |  |  |  |  |  |  |
| 0.1 % 6.43 dB<br>0.01 % 7.11 dB | 0.01 %   | CF Step<br>5.000000 MHz<br><u>Auto</u> Man |  |  |  |  |  |
| 0.001 % 7.58 dB<br>0.0001 % dB  | 0.001 %  | Freq Offset<br>0 Hz                        |  |  |  |  |  |
| Peak 7.95 dB<br>27.85 dBm       | 0.0001 % o dB  | 20 dB                                      |  |  |  |  |  |

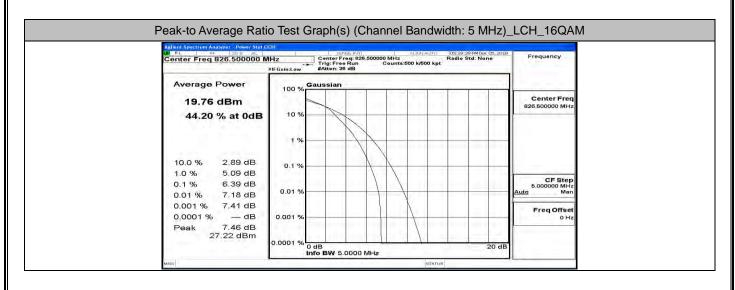
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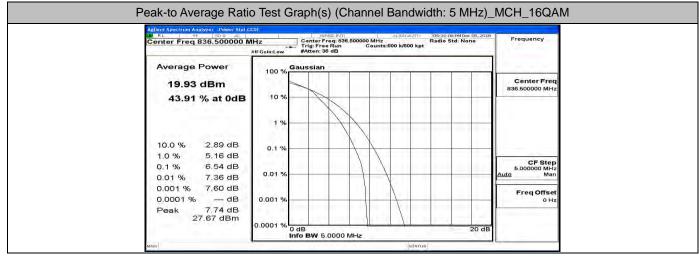




| Agilent Spectrum Analyzer - Power Stat C |                | SENSEINT   |            | ALIGN AUTO  | 05:32:29 PMDec 05, 2018    |                                     |  |  |
|--|----------------|--|------------|-------------|----------------------------|-------------------------------------|--|--|
| Center Freq 846.500000 N                 |                | Center Freq: 846.<br>Trig: Free Run<br>#Atten: 36 dB | Counts:50  | 0 k/500 kpt | Radio Std: None            | Frequency                           |  |  |
| A DECK STREET                            |                |  |            |             |                            | 1                                   |  |  |
| Average Power                            | 100 % Gau      | ussian   |            | -           | i i i                      |                                     |  |  |
| 20.79 dBm                                | 1              |  | and in the |             |                            | Center Freq<br>846.500000 MHz       |  |  |
| 46.29 % at 0dB                           | 10 %           |  |            |             |                            |                                     |  |  |
|  | 1.2            |  |            |             | and a second second second |                                     |  |  |
|  | 1 %            |  |            |             | 1                          |                                     |  |  |
| 10.0 % 2.41 dB                           | 0.1 %          |  |            |             |                            |                                     |  |  |
| 1.0 % 4.46 dB                            | 0.1 %          | V  |            |             |                            |                                     |  |  |
| 0.1 % 5.63 dB                            | 0.01 %         |  |            |             |                            | CF Step<br>5.000000 MHz<br>Auto Man |  |  |
| 0.01 % 6.32 dB                           |                |  | I = I      | 21101       |                            |                                     |  |  |
| 0.001 % 6.69 dB<br>0.0001 % dB           | 0.001 %        |  |            |             |                            | Freq Offset<br>0 Hz                 |  |  |
|  | 0.001 /        |  | 1          |             |                            | 0.112                               |  |  |
| Peak 6.94 dB                             | 6 Sec. 10 1777 |  |            |             |                            |                                     |  |  |

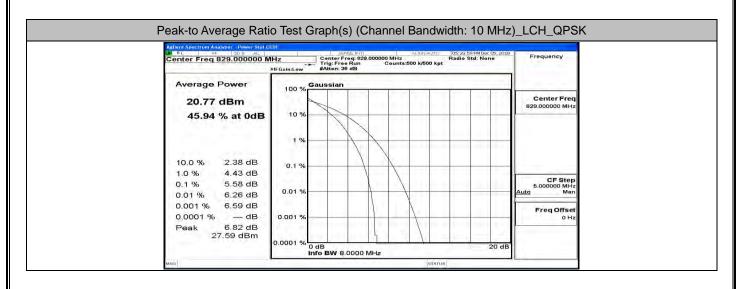
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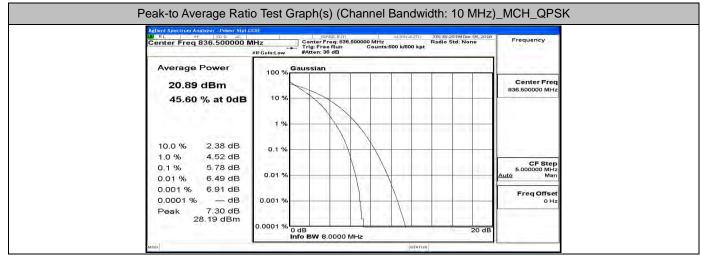




|                                 | lafent Spectrum Ansizer - Pewer Stall CDD:<br>■ RL 9F 500 AC Set |       |                                 |  |  |  |  |
|---------------------------------|--|-------|---------------------------------|--|--|--|--|
|                                 | Gain:Low #Atten: 36 dB   |       |                                 |  |  |  |  |
| Average Power                   | 100 % Gaussian   |       |                                 |  |  |  |  |
| 19.80 dBm                       |  |       | Center Freq<br>846.500000 MHz   |  |  |  |  |
| 44.27 % at 0dB                  | 10 %   |       |                                 |  |  |  |  |
|                                 |  |       |                                 |  |  |  |  |
| and the second second           | 1 %  |       |                                 |  |  |  |  |
| 10.0 % 2.90 dB                  | 0.1 %  |       |                                 |  |  |  |  |
| 1.0 % 5.13 dB                   |  |       | CF Step                         |  |  |  |  |
| 0.1 % 6.46 dB<br>0.01 % 7.20 dB | 0.01 %   |       | 5.000000 MHz<br><u>Auto</u> Man |  |  |  |  |
| 0.001 % 7.53 dB                 |  |       | FreqOffset                      |  |  |  |  |
| 0.0001 % dB                     | 0.001 %  |       | 0 Hz                            |  |  |  |  |
| Peak 8.19 dB<br>27.99 dBm       | i,   |       |                                 |  |  |  |  |
|                                 | .0001 % 0 dB   | 20 dB |                                 |  |  |  |  |
|                                 | Info BW 5.0000 MHz   |       |                                 |  |  |  |  |

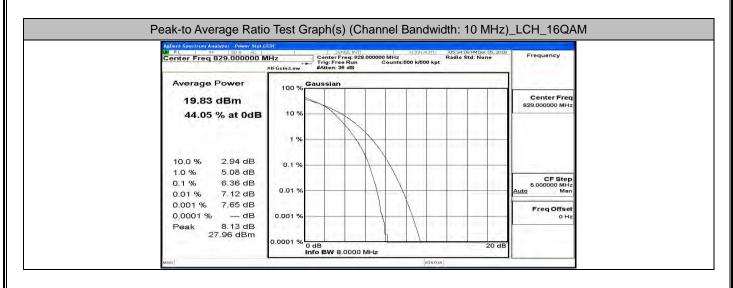
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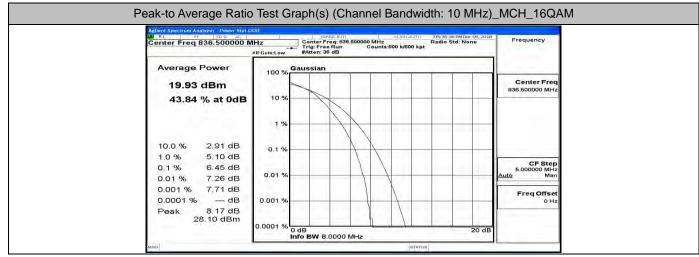




| Center Freq 844.000000 N        | Trig: Free Run Counts:500 k/500 kpt |             |                 |        |       |                               |  |
|---------------------------------|-------------------------------------|-------------|-----------------|--------|-------|-------------------------------|--|
|                                 | #IFGain:Low #Ai                     | ten: 36 dB  | Counter.coo avo | oo spr |       |                               |  |
| Average Power                   | 100 % Gaus                          | sian        |                 | 1      | 1 1 1 |                               |  |
| 20.76 dBm                       |                                     |             |                 |        |       | Center Freq<br>844.000000 MHz |  |
| 46.32 % at 0dB                  | 10 %                                |             |                 |        |       |                               |  |
|                                 |                                     | XX          |                 |        |       |                               |  |
|                                 | 1 %                                 |             |                 |        |       |                               |  |
| 10.0 % 2.32 dB                  | 0.1 %                               |             |                 |        |       |                               |  |
| 1.0 % 4.45 dB                   | 2.00                                |             |                 |        |       | CF Step                       |  |
| 0.1 % 5.66 dB<br>0.01 % 6.31 dB | 0.01 %                              |             |                 |        |       | 5.000000 MHz<br>Auto Man      |  |
| 0.001 % 6.99 dB                 |                                     |             | X               |        |       |                               |  |
| 0.0001 % dB                     | 0.001 %                             | - 1         | $  \rangle$     |        |       | Freq Offset<br>0 Hz           |  |
| Peak 7.07 dB<br>27.83 dBm       | 000                                 |             |                 |        |       |                               |  |
| 27.65 0811                      | 0.0001 % 0 dB                       |             |                 |        | 20 dB |                               |  |
|                                 | Info E                              | W 8.0000 MH | 2               | -      | 20 05 |                               |  |

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| Center Freq 844.000000 I       | AHz Center Freq: 84       | 44.000000 MHz Radi   | 37:09 PMDac 05, 2018<br>lo Std: None | Frequency                     |
|--------------------------------|---------------------------|----------------------|--------------------------------------|-------------------------------|
|                                | #IFGain:Low #Atten: 36 dB | Counts:500 k/500 kpt | And the                              |                               |
| Average Power                  | 100 % Gaussian            |                      |                                      |                               |
| 19.83 dBm                      |                           |                      |                                      | Center Freq<br>844.000000 MHz |
| 44.37 % at 0dB                 | 10 %                      |                      |                                      |                               |
|                                | 1 %                       |                      |                                      |                               |
| and the Reason and the         |                           |                      |                                      |                               |
| 10.0 % 2.90 dB                 | 0.1 %                     |                      |                                      |                               |
| 1.0 % 5.07 dB<br>0.1 % 6.37 dB |                           |                      | -                                    | CF Step<br>5.000000 MHz       |
| 0.01 % 7.21 dB                 | 0.01 %                    |                      |                                      | <u>Auto</u> Man               |
| 0.001 % 7.65 dB<br>0.0001 % dB | 0.001 %                   |                      |                                      | Freq Offset                   |
| Peak 7.96 dB                   |                           |                      | 10000                                |                               |

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## C.3 26dB Bandwidth and Occupied Bandwidth

|            | EBW & OBW Te | st Result (Channel Band | width: 1.4 MHz) |         |
|------------|--------------|-------------------------|-----------------|---------|
| Modulation | Channel      | Occupied Bandwidth      | 26dB Bandwidth  | Verdict |
| Modulation | Onannei      | (MHz)                   | (MHz)           | Verdict |
|            | LCH          | 1.0739                  | 1.226           | PASS    |
| QPSK       | MCH          | 1.0726                  | 1.224           | PASS    |
|            | НСН          | 1.0780                  | 1.233           | PASS    |
|            | LCH          | 1.0787                  | 1.216           | PASS    |
| 16QAM      | MCH          | 1.0788                  | 1.220           | PASS    |
|            | НСН          | 1.0742                  | 1.228           | PASS    |

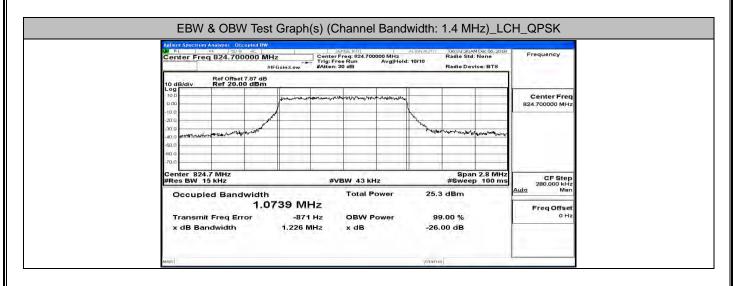
|            | EBW & OBW T | est Result (Channel Ban | dwidth: 3 MHz) |         |
|------------|-------------|-------------------------|----------------|---------|
| Modulation | Channel     | Occupied Bandwidth      | 26dB Bandwidth | Verdict |
| wouldton   | Ghanne      | (MHz)                   | (MHz)          | Verdict |
|            | LCH         | 2.6770                  | 2.823          | PASS    |
| QPSK       | MCH         | 2.6787                  | 2.818          | PASS    |
|            | НСН         | 2.6791                  | 2.836          | PASS    |
|            | LCH         | 2.6791                  | 2.830          | PASS    |
| 16QAM      | MCH         | 2.6753                  | 2.830          | PASS    |
|            | НСН         | 2.6917                  | 2.839          | PASS    |

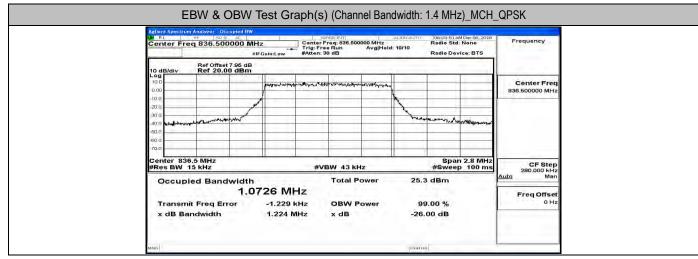
|            | EBW & OBW T | est Result (Channel Ban | dwidth: 5 MHz) |         |
|------------|-------------|-------------------------|----------------|---------|
| Modulation | Channel     | Occupied Bandwidth      | 26dB Bandwidth | Verdict |
| MODULATION | Channel     | (MHz)                   | (MHz)          | Verdict |
|            | LCH         | 4.4738                  | 4.756          | PASS    |
| QPSK       | MCH         | 4.4844                  | 4.862          | PASS    |
|            | HCH         | 4.4681                  | 4.841          | PASS    |
|            | LCH         | 4.4762                  | 4.815          | PASS    |
| 16QAM      | MCH         | 4.4798                  | 4.816          | PASS    |
|            | НСН         | 4.4783                  | 4.877          | PASS    |

|            | EBW & OBW Te | est Result (Channel Band | lwidth: 10 MHz) |         |
|------------|--------------|--------------------------|-----------------|---------|
| Modulation | Channel      | Occupied Bandwidth       | 26dB Bandwidth  | Verdict |
| wodulation | Channel      | (MHz)                    | (MHz)           | verdict |
|            | LCH          | 8.9288                   | 9.489           | PASS    |
| QPSK       | MCH          | 8.9620                   | 9.498           | PASS    |
|            | HCH          | 8.9221                   | 9.457           | PASS    |
|            | LCH          | 8.9238                   | 9.479           | PASS    |
| 16QAM      | MCH          | 8.9604                   | 9.559           | PASS    |
|            | HCH          | 8.9394                   | 9.431           | PASS    |

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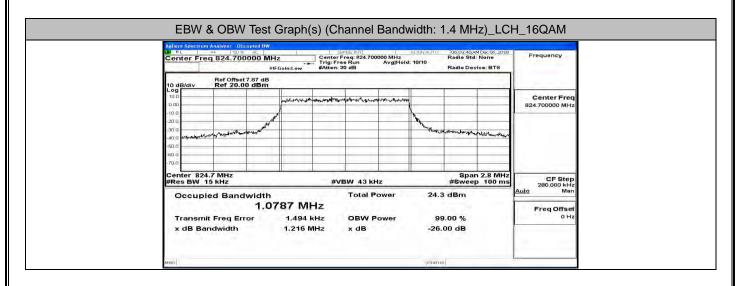


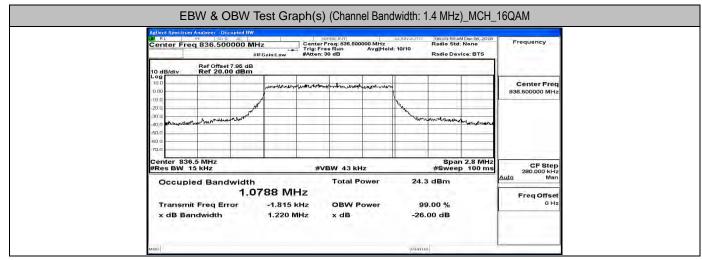


| LW RL RF SD 9 AL                             | bw :    | 54             | THE INT                  | ALIGNAUTO | Torstore a             | M Dec 06, 2018        |                               |  |                     |  |
|--|---------|----------------|--------------------------|-----------|------------------------|-----------------------|-------------------------------|--|---------------------|--|
| Center Freq 848.300000                       |         |                | req: 848.300000 MHz      |           | Radio Std<br>Radio Dev | None                  | Frequency                     |  |                     |  |
| 10 dB/div Ref 20.00 dB                       | iB<br>m |                |                          |           |                        |                       |                               |  |                     |  |
|  |         | mpannorthal    | -harman harry during war | ~         |                        |                       | Center Freq<br>848.300000 MHz |  |                     |  |
| -10.0  | 1       |                |                          | X         |                        |                       |                               |  |                     |  |
| -30 0<br>-40 0 your harmon and harmon harden |         |                |                          | WARNE     | har white              | nton an international |                               |  |                     |  |
| -80 0  |         |                |                          |           |                        |                       |                               |  |                     |  |
| Center 848.3 MHz<br>#Res BW 15 kHz           |         | #VI            | BW 43 kHz                | -11       | Spar<br>#Swee          | n 2.8 MHz<br>p 100 ms | CF Step<br>280.000 kHz        |  |                     |  |
| Occupied Bandwidth<br>1.0780 MHz             |         | ЛНz            | Total Power              | 25.:      | 25.2 dBm               |                       | <u>Auto</u> Man               |  |                     |  |
| Transmit Freq Error<br>x dB Bandwidth        |         | 3 kHz<br>3 MHz | OBW Power<br>x dB        |           |                        |                       | 99.00 %<br>-26.00 dB          |  | Freq Offset<br>0 Hz |  |

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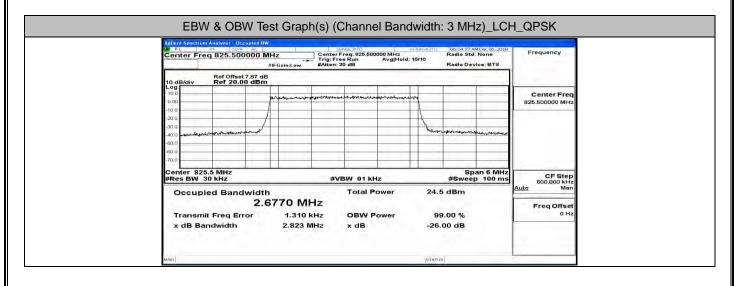


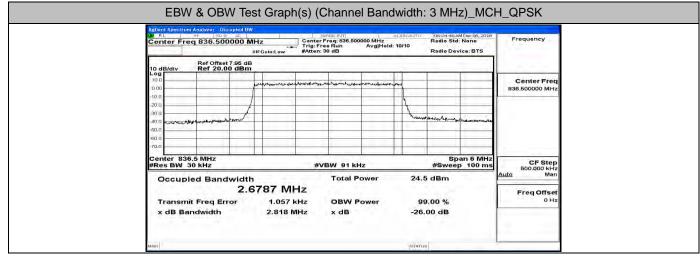


| Adjent Spectrum Analyzer         Occupted 11W           Mark         Set/risc/I/TI         outstraturo         tost/adultaturo           Centrer Freq: 348,300000 MHz         Radio Std: None |                           |               |                       |          |           |   |                       | Frequency              |           |  |         |  |  |      |
|---|---------------------------|---------------|-----------------------|----------|-----------|---|-----------------------|------------------------|-----------|--|---------|--|--|------|
| Center Freq 848.300000 M  | #IFGain:Low #Atten: 30 dB |               |                       |          |           | Alio Std: None<br>vg Hold: 10/10<br>Radio Device: BTS |                       |                        |           |  |         |  |  |      |
| Ref Offset 7.95 dE  | 3                         |               |                       |          |           |   |                       |                        |           |  |         |  |  |      |
| 10.0  | moundure                  | Martin Maryla | and the second second | minution |           |   |                       | Center Freq            |           |  |         |  |  |      |
| -10.0   | 1                         |               |                       |          | 1         |   | -                     | 848.300000 MHz         |           |  |         |  |  |      |
| -20.0   | 1                         |               |                       |          | N         | 1.000   | 4                     |                        |           |  |         |  |  |      |
| -40.0 mangach on the one show and   |                           |               |                       |          | Whyster   | unan manager  | Magel purper          |                        |           |  |         |  |  |      |
| -50.0   |                           |               | -                     |          |           | -   |                       |                        |           |  |         |  |  |      |
| -70.0   |                           |               | -                     | -        |           |   |                       |                        |           |  |         |  |  |      |
| Center 848.3 MHz<br>#Res BW 15 kHz  |                           | #             | VBW 43 kH             | z        | <u></u>   | Spar<br>#Swee   | n 2.8 MHz<br>p 100 ms | CF Step<br>280.000 kHz |           |  |         |  |  |      |
| Occupied Bandwidth  | ccupied Bandwidth         |               | Total Power           |          | 24.       | 4 dBm   |                       | <u>Auto</u> Man        |           |  |         |  |  |      |
| 1.0   | 0742 M                    | Hz            |                       |          |           |   |                       | Freq Offset            |           |  |         |  |  |      |
| Transmit Freq Error   | -1.337                    |               | OBW Power             |          | OBW Power |   | OBW Power             |                        | OBW Power |  | 99.00 % |  |  | 0 Hz |
| x dB Bandwidth  | 1.228                     | MHz           | x dB                  |          | -26       | .00 dB  |                       |                        |           |  |         |  |  |      |

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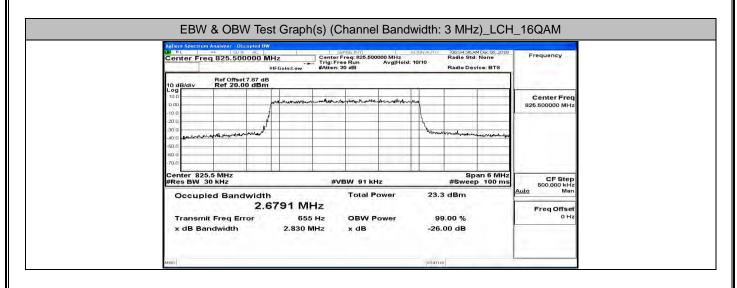


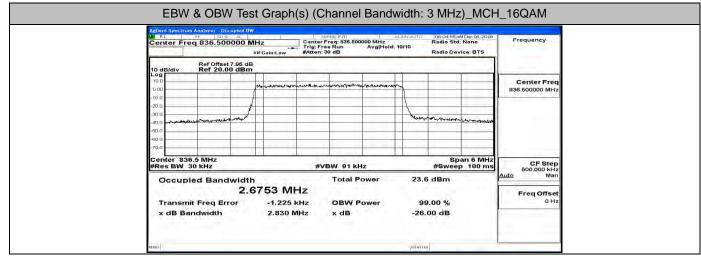


| Addred Spectrum Analyzer         Occupied IDW         Subsci [D1]         Addred Spectrum Analyzer         Occupied IDW           R.K.         vitro         pic 500 dia  |               |                |             |     |      |                      |                      | Frequency                     |
|---|---------------|----------------|-------------|-----|------|----------------------|----------------------|-------------------------------|
| Ref Offset 7.95 d   |               |                |             |     |      |                      |                      |                               |
| Log<br>10.0   | -             | handatarahlana |             | man |      |                      |                      | Center Freq<br>847.500000 MHz |
| -10.0   | /             |                |             |     |      |                      | -                    |                               |
| -30.0<br>-40.0 Angland and the state of the sta |               |                |             |     | here | S. A. STRING WALLAND | haten maranterina    |                               |
| -60 0   |               | _              |             |     |      |                      |                      |                               |
| Center 847.5 MHz<br>#Res BW 30 kHz  |               | #VI            | BW 91 kHz   |     |      |                      | an 6 MHz<br>) 100 ms | CF Step<br>500.000 kHz        |
| Occupied Bandwidt   | th<br>6791 MI | 47             | Total Power |     | 24.  | 5 dBm                |                      | <u>Auto</u> Man               |
| Transmit Freq Error   | -2.186        |                | OBW Powe    | 6   | 9    | 9.00 %               |                      | Freq Offset<br>0 Hz           |

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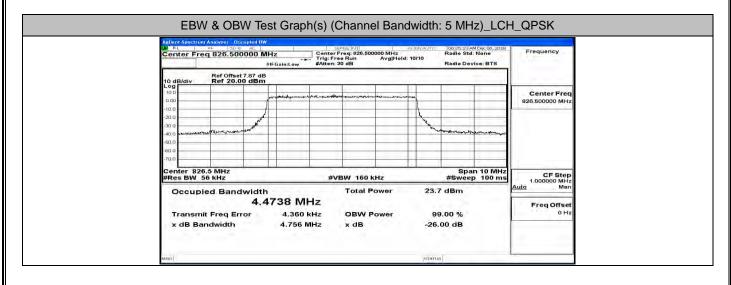


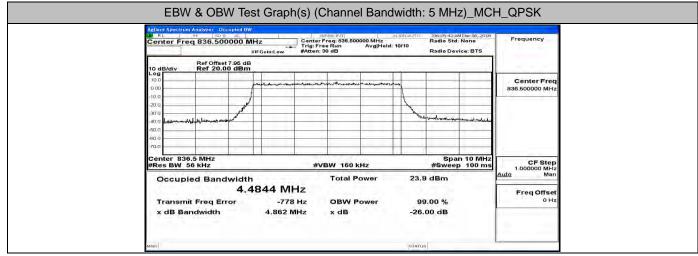


| Agilent Spectrum Analyzer - Occupied B |             |                      | NSE INT                          |                            | IGN AUTO |                 | M Dec 06, 2018       | Frequency              |
|--|-------------|----------------------|----------------------------------|----------------------------|----------|-----------------|----------------------|------------------------|
| Center Freq 847.500000 I               | #IFGain:Low | Trig: Fre<br>#Atten: | Freq: 847.500<br>te Run<br>30 dB | Avg Hold: 1                | 0/10     | Radio Std       |                      |                        |
| Ref Offset 7.95 di                     | 8           |                      |                                  |                            |          |                 |                      | Center Freq            |
| Log                                    |             |                      |                                  | 1                          | 1        |                 |                      |                        |
| 0.00                                   | monation    | 1000 - 100 - 10      |                                  | how when the second second | 1        | -               | -                    | 847.500000 MHz         |
| -10.0                                  | 1           |                      |                                  |                            | 1        |                 |                      |                        |
| -30 0                                  |             |                      |                                  |                            | A        |                 |                      |                        |
| -40.0 with the destand with the sheet  |             |                      |                                  |                            | *****    | to Delle to any | white markers        |                        |
| -60.0.                                 |             |                      |                                  |                            |          | -               |                      |                        |
| -70.0                                  |             | -                    |                                  |                            |          |                 |                      |                        |
| Center 847.5 MHz<br>#Res BW 30 kHz     | -           | #V                   | BW 91 kH                         | Iz                         |          |                 | an 6 MHz<br>p 100 ms | CF Step<br>500.000 kHz |
| Occupied Bandwidt                      | h           |                      | Total P                          | ower                       | 23.      | 4 dBm           |                      | Auto Man               |
| 2.                                     |             |                      |                                  |                            |          | Freq Offset     |                      |                        |
| Transmit Freq Error                    | kHz         | OBW P                | ower                             | 9                          | 9.00 %   |                 | 0 Hz                 |                        |
| x dB Bandwidth                         | 2.839       | MHz                  | x dB                             |                            | -26      | .00 dB          |                      |                        |

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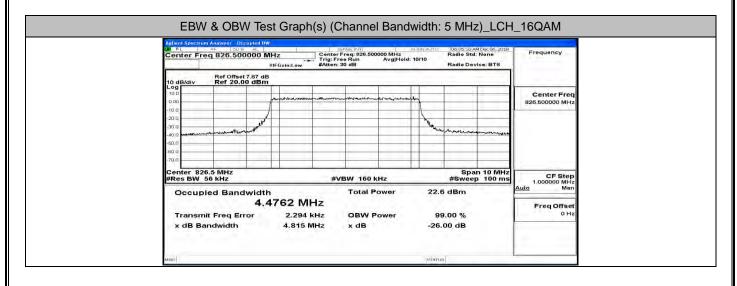


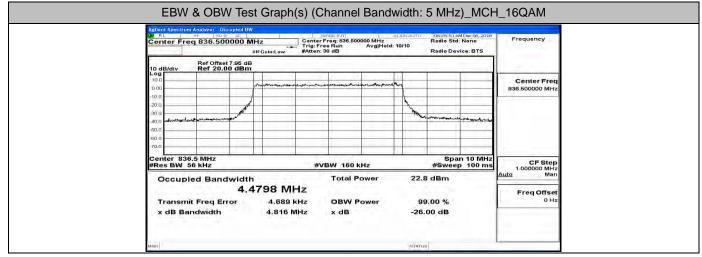


| Center Pred 340.500000 mirze       Trig: Free Run       Avgifield: 10/10       Radie Devise: BTS         10   | RL RF SDR AL                          | W                 |            | INSE INT       |             | IGN AUTO |                 | M Dec 06, 2018       | Frequency      |
|---|---------------------------------------|-------------------|------------|----------------|-------------|----------|-----------------|----------------------|----------------|
| 10 dB/div       Ref 20.00 dBm         10 dB/div       Ref 20.00 dBm         10 dB/div       Center Free         10 dB/div       Ref 20.00 dBm         10 dB/div       Center Free         10 dB/div       Ref 20.00 dBm         10 dB/div       Center Free         10 dB/div       Ref 20.00 dBm         10 dB/div       Ref 20.00 dBm </th <th>Center Freq 846.500000 I</th> <th></th> <th>Trig: Fre</th> <th>e Run</th> <th>Avg Hold: 1</th> <th>0/10</th> <th></th> <th></th> <th>Prequency</th>  | Center Freq 846.500000 I              |                   | Trig: Fre  | e Run          | Avg Hold: 1 | 0/10     |                 |                      | Prequency      |
| Log       Center Free         000       Center Step         000       Free Offsee         000       CF Step         1.000000 MH       Total Power         000       Center Step         1.000000 MH       Mail         000       Freq Offsee         000       CF Step         1.000000 MH       Mail         000       Mail         000       CF Step         1.000000 MH       Mail         00000 MH       Mail         000000 MH       Mail         000000 MH       Mail         000000 MH <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th rowspan="2">Center Freq</th></td<>   |                                       |                   |            |                |             |          |                 |                      | Center Freq    |
| 0.00         0.00 <td< td=""><td>Log</td><td></td><td></td><td>and the second</td><td></td><td></td><td></td><td></td></td<>  | Log                                   |                   |            | and the second |             |          |                 |                      |                |
| 300   | 177.1                                 |                   |            |                |             | 1        |                 |                      | 846.500000 MHz |
| Image: Span 10 MHz       Image: Span 10 MHz         Center 846.5 MHz       #VBW 160 kHz       Span 10 MHz         Center 846.5 MHz       #VBW 160 kHz       Span 10 MHz         Cocupled Bandwidth       Total Power       23.6 dBm         A.4681 MHz       Freq Offse         Transmit Freq Error       -7.875 kHz       OBW Power       99.00 %  | J                                     | N                 |            |                |             | they.    |                 |                      |                |
| Image: Constraint of the second se |                                       |                   |            | -              |             | N.       | manut           | Marytonterne         |                |
| Center 846.5 MHz         Span 10 MHz         CF Step<br>1,000000 MH           #Res BW 56 kHz         #VBW 160 kHz         #Sweep 100 ms         1,000000 MH           Occupied Bandwidth         Total Power         23.6 dBm         Auto         Mail           4.4681 MHz         Freq Offse         Freq Offse         0 H         0 H           Transmit Freq Error         -7.875 kHz         OBW Power         99.00 %         0 H   | 7770                                  |                   |            |                |             |          |                 |                      |                |
| #Res BW 56 kHz         #VBW 160 kHz         #Sweep 100 ms         CP Stell           Occupied Bandwidth         Total Power         23.6 dBm         Auto         Materia           4.4681 MHz         Freq Offsee         Freq Offsee         0 H  | -70.0                                 |                   |            | 1              |             |          |                 | 1                    |                |
| Occupied Bandwidth Total Power 23.6 dBm Auto Man<br>4.4681 MHz Freq Offse<br>Transmit Freq Error -7.875 kHz OBW Power 99.00 %   |                                       |                   | #V         | BW 160 k       | Hz          |          | Spa<br>#Sweep   | n 10 MHz<br>p 100 ms | CF Step        |
| Transmit Freq Error -7.875 kHz OBW Power 99.00 %  | Occupied Bandwidt                     | h                 |            | Total P        |             |          |                 |                      |                |
|   | 4.                                    |                   |            | Freq Offset    |             |          |                 |                      |                |
|   | Transmit Freq Error<br>x dB Bandwidth | -7.875<br>4.841 P | -7.875 kHz |                | ower        |          | 9.00 %<br>00 dB |                      | 0 Hz           |

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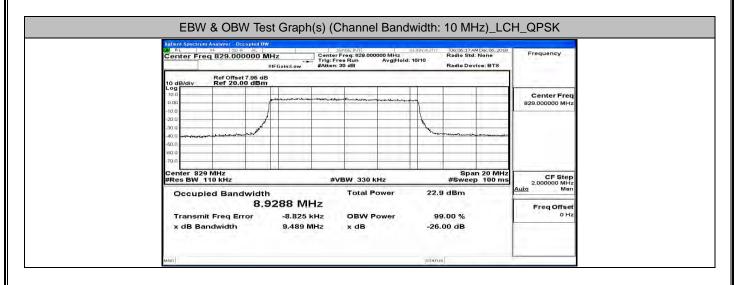


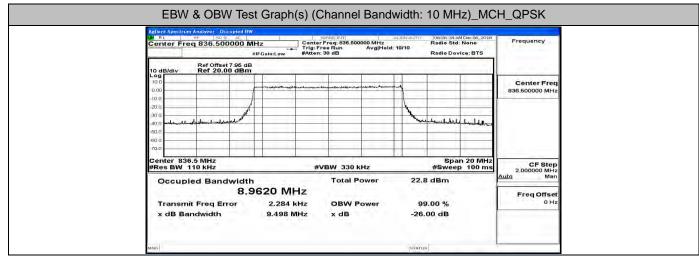


| Center Freq 84                  | 16.500000 M       |                    | Center F  |            |             | IGN AUTO            | Radio Std |                      | Frequency                       |
|---------------------------------|-------------------|--------------------|-----------|------------|-------------|---------------------|-----------|----------------------|---------------------------------|
|                                 | f Offset 7.95 dB  |                    | #Atten: 3 | 30 dB      |             |                     | Radio Dev | vice: BTS            |                                 |
|                                 | 1 20.00 dBh       |                    |           |            | ensurvelmen |                     |           |                      | Center Freq<br>846,500000 MHz   |
| -10.0                           | 1                 |                    |           |            |             | A.                  |           |                      | 540.00000 MI12                  |
| :30 0<br>-40 0                  | - server - marken |                    |           |            |             | N.                  |           | -                    |                                 |
| -50.0<br>-60.0                  |                   |                    |           |            | _           |                     |           |                      |                                 |
| Center 846.5 M<br>#Res BW 56 kH |                   |                    | #V        | BW 160 KH: | z           |                     |           | n 10 MHz<br>p 100 ms | CF Step                         |
| Occupied                        |                   | h<br>4783 M        |           | Total Pov  |             | 22.5                | i dBm     |                      | 1.000000 MHz<br><u>Auto</u> Man |
| Transmit Fr                     |                   | OBW Por            | 99        | 0.00 %     |             | Freq Offset<br>0 Hz |           |                      |                                 |
| x dB Bandw                      |                   | -10.583<br>4.877 I |           | x dB       |             |                     | 00 dB     |                      |                                 |

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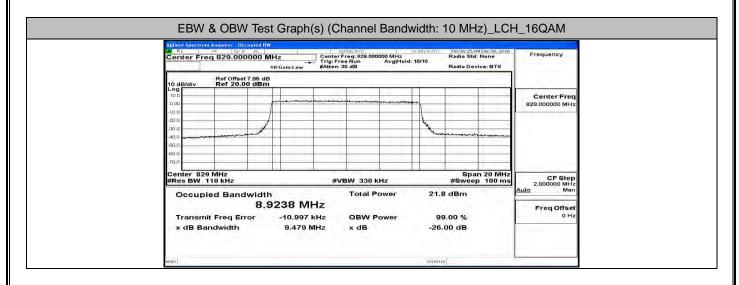


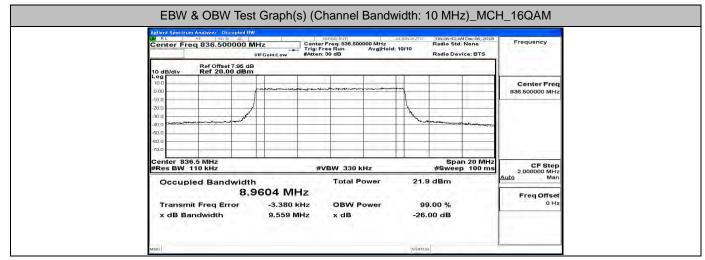


| Agilent Spectrum Analyzer Decupi        |          |                             | SE       | VSE:INT               | -21    | IGN AUTO | 105:05:51 al          | M Dec 06, 2018       |                               |
|---|----------|-----------------------------|----------|-----------------------|--------|----------|-----------------------|----------------------|-------------------------------|
| Center Freq 844.00000                   | DO MH    | lz<br>FGain:Low             | Center F | req: 844.000<br>e Run |        |          | Radio Std             | Frequency            |                               |
| 10 dB/div Ref Offset 7.9<br>Ref 20.00 d |          |                             |          |                       |        |          |                       |                      |                               |
|   | r        | <b>a</b> laanaayuraa'ahiyoo |          |                       |        | -        |                       |                      | Center Freq<br>844.000000 MHz |
| -10.0                                   | 1        |                             |          |                       |        | h        |                       | -                    |                               |
| -40.0                                   |          |                             |          |                       |        | ~        | and the second second |                      |                               |
| -70.0                                   |          |                             |          |                       |        |          |                       |                      |                               |
| Center 844 MHz<br>#Res BW 110 kHz       |          |                             | #VE      | 3W 330 P              | Hz     |          | Spa<br>#Sweer         | n 20 MHz<br>p 100 ms | CF Step<br>2.000000 MHz       |
| Occupied Bandwi                         |          | 221 MH                      |          | Total P               | ower   | 22.3     | 7 dBm                 |                      | <u>Auto</u> Man               |
| Transmit Freq Error                     | HZ<br>HZ | OBW P                       | ower     | 91                    | 9.00 % |          | Freq Offset<br>0 Hz   |                      |                               |
| x dB Bandwidth                          |          | 9.457 N                     | AHz      | x dB                  |        | -26.     | 00 dB                 |                      |                               |

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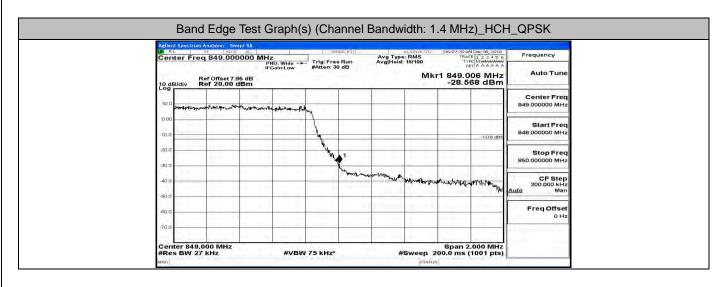


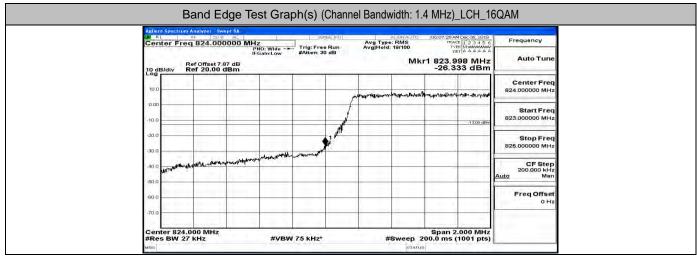
| Contor Fred             | RF DO Q AL                                |                                    |                               | SENSE:INT                             |                     | ALIGNAUTO       | 06:07:00 A                                     | M Dec 06, 2018                | Frequency               |  |  |
|-------------------------|---|------------------------------------|-------------------------------|---------------------------------------|---------------------|-----------------|--|-------------------------------|-------------------------|--|--|
| Conter Freg             | q 844.000000 l                            | MHz<br>#IFGain:Low                 | Center<br>Trig: Fi<br>#Atten: | r Freq: 844.000<br>ree Run<br>: 30 dB | 000 MHz<br>Avg Hold | : 10/10         | Radio Std:<br>Radio Dev                        |                               | Frequency               |  |  |
| 10 dB/div               | Ref Offset 7.95 d<br>Ref 20.00 dBr        |                                    |                               |                                       |                     |                 |  |                               |                         |  |  |
| 10.0<br>0.00            |   | -                                  |                               |                                       |                     |                 |  | Center Freq<br>844.000000 MHz |                         |  |  |
| -10.0<br>-20.0<br>-30.0 |   |                                    |                               |                                       |                     |                 |  |                               |                         |  |  |
| -40,0                   | and the second second                     |                                    |                               |                                       |                     |                 |  | *****                         |                         |  |  |
| -70.0<br>Center 844     | NALIS                                     |                                    |                               |                                       |                     |                 | Casa   | in 20 MHz                     |                         |  |  |
| #Res BW 11              |   |                                    | #1                            | VBW 330 k                             | Hz                  |                 |  | p 100 ms                      | CF Step<br>2.000000 MHz |  |  |
| Occupie                 | ed Bandwidt                               |                                    |                               | Total P                               | ower                | 21.1            | 3 dBm  |                               | <u>Auto</u> Man         |  |  |
|                         | kHz                                       | OBW P                              | ower                          | 99.00 %                               |                     |                 | Freq Offset<br>0 Hz                            |                               |                         |  |  |
| #Res BW 11<br>Occupie   | 10 kHz<br>ed Bandwidt<br>8,<br>Freq Error | th<br>.9394 M<br>-7.090<br>9.431 I | Total P                       | ower                                  | 91                  | #Sweer<br>8 dBm | 2.000000 MHz<br><u>Auto</u> Man<br>Freq Offset |                               |                         |  |  |

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## C.4 Band Edge

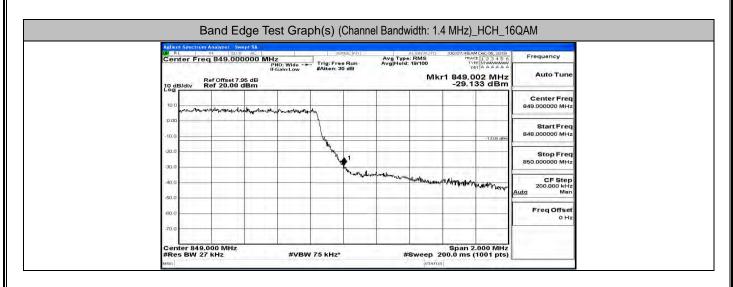
| N RL      |                      | C Swept SA                  | _                      | servae:InT                    | Avg Type                                | LIGNAUTO  05:0               | 7:20 AM Dec 06, 2018<br>TRACE 1 2 3 4 5 6 | Frequency                          |
|-----------|----------------------|-----------------------------|------------------------|-------------------------------|---|------------------------------|---|------------------------------------|
| 10 dB/div | Ref Offs             | P                           | NO: Wide T             | rig: Free Run<br>Atten: 30 dB | Avg Hold:                               | <sup>19/100</sup><br>Mkr1 82 | 4.000 MHz<br>6.572 dBm                    | Auto Tune                          |
| 10.0      |                      |                             |                        |                               | ana ang ang ang ang ang ang ang ang ang | ~                            | ~*************************************    | Center Freq<br>824.000000 MHz      |
| -10.00    |                      |                             |                        | 1                             |   |                              | -1.5.00 dBm                               | Start Free<br>823.000000 MHz       |
| -20.0     |                      |                             |                        | \$1 still                     |   |                              |   | Stop Freq<br>825.000000 MHz        |
| -40.0 JAV | phys. Marinelly www. | www.et/11/7~160.0481/11-474 | all and real areas and | Strough in a                  |   |                              |   | CF Step<br>200.000 kHz<br>Auto Man |
| -50.0     |                      |                             |                        |                               |   |                              |   | Freq Offset                        |
| -70 0     |                      |                             |                        |                               |   |                              | -   |                                    |

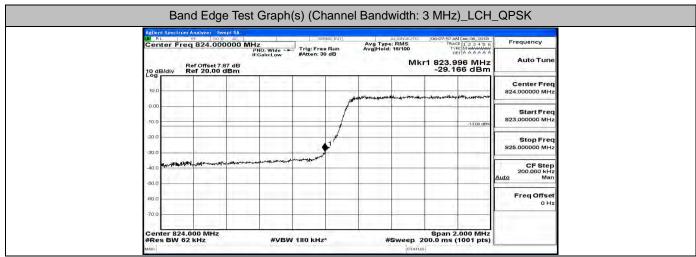




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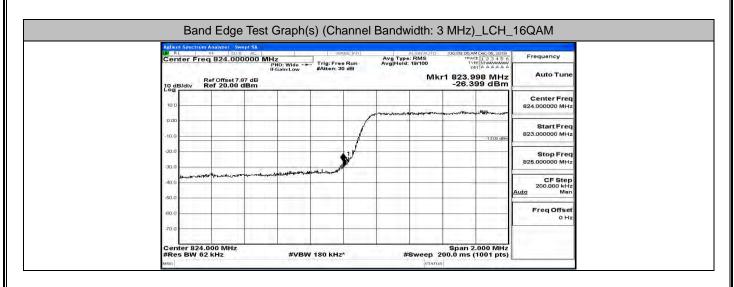


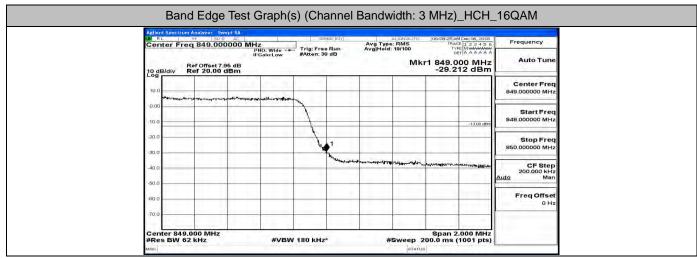


|                                    | Dec 06, 2018                 | 06:09:16 AM | ALIGNAUTO                             |     | senaeth |       |                  |   | RF SU Q                       |        | Agiler<br>DV R |
|------------------------------------|------------------------------|-------------|---------------------------------------|-----|---------|-------|------------------|---|-------------------------------|--------|----------------|
| Frequency                          | 123456<br>MMMMM              | TRACE       | /pe: RMS<br>Id: 19/100                | Avg | ree Ru  | Trig  | Z<br>NO: Wide -+ | 0000 MHz  | q 849.000                     |        | Cer            |
| Auto Tune                          | and the second second second | 1 849.00    | Mk                                    |     | 30 dB   | #Atte | Gain:Low         | IFC<br>95 dB  | Ref Offset 7.9<br>Ref 20.00 d | dB/div | 10 di          |
| Center Freq<br>849.000000 MHz      |                              |             |                                       |     |         |       |                  |   |                               | à      | 10.0           |
| Start Freq<br>848,000000 MHz       |                              |             |                                       |     |         | 1     |                  | and the second |                               | a      | 0.00           |
| 040.000000 mm                      | -1.3.00 dBm                  |             |                                       |     |         | 1     |                  |   |                               |        | -10.0          |
| Stop Freq<br>850.000000 MHz        |                              |             |                                       |     | 1       |       |                  |   |                               | 11.1   | -20.0          |
| CF Step<br>200.000 kHz<br>Auto Man | A 100 AND                    |             | ₽₩₽₩₽₩₽₩₽₩₽₩₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽ | 1   | Nr.     |       |                  |   |                               | α      | -40.0          |
| Freq Offset                        |                              |             |                                       |     |         |       |                  |   |                               | 11.11  | -50.0          |
|                                    |                              | _           | _                                     |     |         |       |                  | -   |                               | à      | -70.0          |

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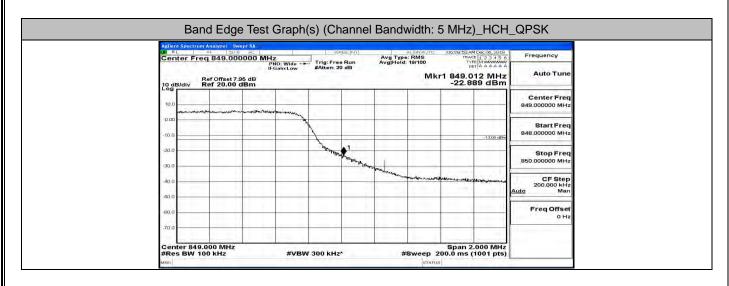
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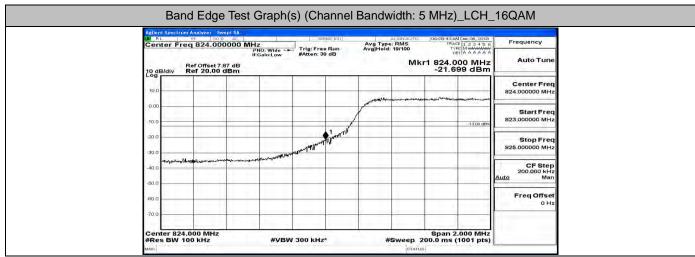




| Agilent Spectrum Analyzer Swej           |                    | SERUSE: INT ALTO   | NAUTO 06:09:34 AM Dec 06, 2018  | 1                                  |
|--|--------------------|--|---|------------------------------------|
| Center Freq 824.000                      |                    | Avg Type: R  | IS TRACE 1 2 3 4 5 6  | Frequency                          |
| Ref Offset 7.67<br>10 dB/div Ref 20.00 d | IFGain:Low #Atten: | 30 dB  | Mkr1 823.994 MHz<br>-20.008 dBm   | Auto Tune                          |
| 10.0                                     |                    | SP Warmen and  | proceeding and the second s | Center Freq<br>824.000000 MHz      |
| -10.0                                    |                    | and the second   | -15.00 dB*  | Start Freq<br>823.000000 MHz       |
| -20.0                                    | Linguiling         | atternational and a second and a second at |   | Stop Freq<br>825.000000 MHz        |
| -40.0                                    |                    |  |   | CF Step<br>200.000 kHz<br>Auto Man |
| -80.0                                    |                    |  |   | Freq Offset<br>0 Hz                |
| -70.0                                    |                    |  |   |                                    |

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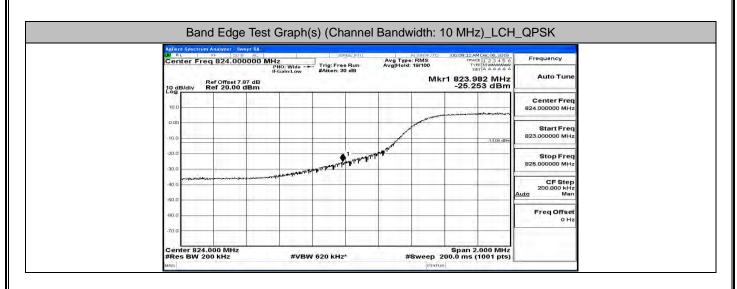


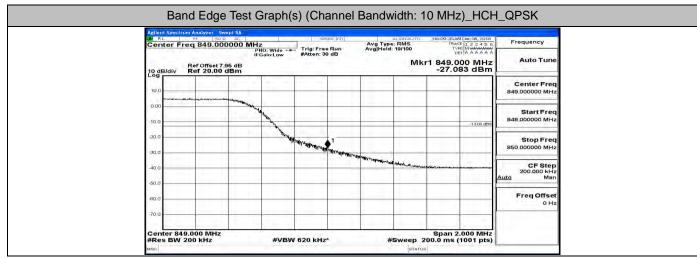


| Ref 20.00 dBm         -22.395 dBm  | ncy<br>o Tune            |
|--|--------------------------|
| 10 dB/div Ref 20.00 dBm Content of Center Conten | Tune                     |
| Cente  |                          |
| man and a second a second and a second   | er Freq<br>100 MHz       |
| 0.00   | rt Freq<br>100 MHz       |
|  | p Freq                   |
| 200.0<br>Auto  | F Step<br>000 kHz<br>Man |
| 600 Freq   | Offset<br>0 Hz           |

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|       |       | um Analyzer           |          |                 |                |         |  |     | and the state of the second second  |                                    |
|-------|-------|-----------------------|----------|-----------------|----------------|---------|--|-----|---|------------------------------------|
| Ce    |       | eq 824.               | 000000 N | Hz<br>PNO; Wide | and the second | e Bun   | Avg Type<br>Avg Hold   | RMS | 05:09:21 AM Dec 06, 2018<br>TRACE 1 2 3 4 5 6<br>TYPE MINANANA<br>DET A A A A A A | Frequency                          |
| 10 g  | B/div | Ref Offse<br>Ref 20.0 |          | IFGain:Low      | #Atten: 3      | 0 dB    |  |     | r1 824.000 MHz<br>-25.636 dBm   | Auto Tune                          |
| 10.0  |       | 1 - 1                 |          | -               |                |         |  |     |   | Center Freq<br>824.000000 MHz      |
| -10.0 |       |                       |          |                 |                |         | , and the second |     | -13.00 dBm  | Start Freq<br>823.000000 MHz       |
| -20.0 |       |                       |          |                 | Correct of the | Sumount | - Hereiter   | 1 1 |   | Stop Freq<br>825.000000 MHz        |
| -40.0 |       |                       | 1        |                 |                |         |  |     |   | CF Step<br>200.000 kHz<br>Auto Man |
| -60.0 |       |                       |          |                 |                |         |  |     |   | Freq Offset<br>0 Hz                |

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|                                   |  |         |          |                       |               |            |                    |                     | Spectrum Analyzer          |         |
|-----------------------------------|--|---------|----------|-----------------------|---------------|------------|--------------------|---------------------|----------------------------|---------|
| Frequency                         | AM Dec 06, 2018<br>ACE 1 2 3 4 5 6<br>VPE MMMMMMM<br>DET A A A A A A | TRACI   | ERMS     | Avg Type<br>Avg Hold: | e Bun         | Carolina I | Iz<br>PNO: Wide -+ | 000000 MH           | er Freq 849.0              |         |
| Auto Tune                         | 006 MHz<br>907 dBm   | 1 849.0 |          |                       | 0 dB          | #Atten:    | FGain:Low          | t 7.95 dB           | Ref Offset<br>div Ref 20.0 | 10 dB/d |
| Center Freq<br>849.000000 MHz     |  |         |          |                       | _             |            |                    |                     |                            | 10.0    |
| Start Freq<br>848.000000 MHz      | ~1.5.00 dBm  |         |          |                       |               |            | ~                  | man and and and and |                            | -10.0   |
| Stop Freq<br>850.000000 MHz       |  |         |          |                       | •1            | hrupphroup | "Mul               |                     |                            | -20.0   |
| CF Step<br>200.000 kHz<br>uto Man | -a faith a star for a feature -                                      |         | Mara man | l'adhr-latadhu-h      | Whether Why d |            |                    |                     |                            | -40.0   |
| Freq Offset<br>0 Hz               |  |         |          |                       |               |            |                    |                     |                            | -60.0   |
|                                   |  |         |          |                       |               |            |                    |                     |                            | -70.0   |

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|         |                | CSE T                  | est Gra         | ph(s) (                         | Chann                  | el Bar             | ndwidth               | : 1.4 N            | MHz)_l                             | LCH_C  | PSK                                    |
|---------|----------------|------------------------|-----------------|---------------------------------|------------------------|--------------------|-----------------------|--------------------|------------------------------------|--|--|
| 2,364   | RL             | req 79.50              | D 9 A DC        | 1                               | 599                    | use ini (          |                       |                    | 06:10:00.AM                        | 4Dec 06, 2018  | Frequency                              |
| 00      | inter Pi       | eq 73.50               |                 | PNO: Wide -+<br>FGain:Low       | #Atten: 1              | Bun<br>D dB        | Avg Type<br>Avg Hold: |                    |                                    | E 123456<br>E MMMMMM<br>T A A A A A A                        | Auto Tune                              |
| 10      | dB/div         | Ref Offset<br>Ref 8.58 | 8.68 dB<br>dBm  |                                 |                        | 1                  | _                     | MK                 | -70.3                              | 056 kHz<br>08 dBm  | Auto Tune                              |
| -1.4    | 1 in 11        | 4 7 10                 | 11.11           |                                 |                        |                    |                       |                    |                                    |  | Center Freq<br>79.500 kHz              |
| 31      | 10.00          |                        |                 |                                 |                        |                    |                       |                    |                                    |  | 79.000 KH2                             |
| -21     | 1.0            |                        |                 |                                 |                        |                    |                       | ÷                  |                                    |  | Start Freq<br>9.000 kHz                |
| -31.    | and the second |                        | 4               |                                 |                        |                    |                       | 1.1                |                                    | -39:00 dtim  | 200400                                 |
| -41     | 4              |                        |                 |                                 |                        |                    |                       |                    |                                    |  | Stop Freq<br>150.000 kHz               |
| -51     | 4              |                        |                 |                                 |                        |                    |                       | _                  |                                    |  | CF Step                                |
| -61     | 4              | C                      | 11122           |                                 |                        |                    |                       | 1                  | 1.00                               |  | 14.100 kHz<br>Auto Man                 |
| -71     | 4              | 4.3                    | M 6             | 0.01                            | A. 100.1               |                    | ult. ad               | A                  | ♦ <sup>1</sup><br>Mila relation of |  | Freq Offset                            |
| -81.    | a Mr way       | 1-17 William           | WANNA           | N DATA CARACTER                 | yman Athana            | WAY MAY            | W. Marial             | I WOW W            | ANA MA MA                          | ohe Mu and   | 0 Hz                                   |
|         |                |                        | t i a           |                                 |                        |                    | 1                     | 1                  | Pton (1                            | 0.00.111   |  |
| #R      |                | KHZ<br>1.0 KHZ         |                 | #VBV                            | V 3.0 KHZ*             |                    | 3                     |                    | Stop 15<br>74.0 ms (               | 0.00 kHz<br>1001 pts)  |  |
| arrest. | -              | um Analyzer -          | Swept SA        |                                 |                        |                    |                       | Patientida         |                                    |  | _                                      |
| 2 10 4  | R L            | 2016                   | 5000 MH         | PNO: Fast                       | Trig: Fre              | Bun                | Avg Type<br>Avg Hold: | RMS                | 06:10:05 AM<br>TRAC<br>TVI         | 4 Dec 06, 2018<br>E 1 2 3 4 5 6<br>E MMMMMM<br>T A A A A A A | Frequency                              |
| -       |                | Ref Offset             |                 | PNO: Fast -+<br>FGain:Low       | #Atten: 1              | 0 dB               | 1.2.00                |                    | Mkr1                               | 538 kHz  | Auto Tune                              |
| 18      | dB/div         | Ref Offset<br>Ref 8.58 | dBm             | 1                               |                        | -                  |                       | _                  | -56.8                              | 45 dBm   |  |
| -1.4    | 2              | -                      |                 |                                 |                        |                    |                       | -                  |                                    | _  | Center Freq<br>15.075000 MHz           |
| -11     | 4              | -                      | -               |                                 | -                      |                    |                       | _                  |                                    |  | Start Freq                             |
| -31     | 4              | -                      |                 | -                               |                        |                    |                       | _                  |                                    |  | 150.000 kHz                            |
| -at.    | 4              |                        | -               |                                 |                        |                    |                       |                    |                                    |  | Stop Freq                              |
| -41     | 4              |                        |                 |                                 |                        |                    |                       |                    |                                    |  | 30.000000 MHz                          |
| -61     | 4 A1-          | -                      |                 |                                 |                        |                    |                       | -                  |                                    |  | CF Step<br>2.985000 MHz                |
| -61     | 4 Mai          |                        |                 |                                 |                        |                    |                       |                    |                                    |  | <u>Auto</u> Man                        |
| -71     | 4 LA           | MA                     | -               |                                 | -                      |                    |                       | _                  | _                                  | _  | Freq Offset<br>0 Hz                    |
| -81     | 4              | f la hattaget          | in the standing | Manyaday-hurt-                  | and an and the second  | enterfoldenter the | uni-relephenis        | rtoppopple descent | (automation)                       | upundadatinal  |  |
| Sta     | art 150 I      | kHz                    |                 |                                 |                        |                    | 1                     |                    | Stop 3                             | 0.00 MHz   |  |
| #R      | es BW          | 10 KHZ                 |                 | #VBV                            | V 30 kHz*              |                    |                       |                    | 68.3 ms (                          | 1001 pts)<br>Ipled   | -                                      |
| 1.30    | RL             | um Analyzer<br>RF 5    | DQ AC           |                                 | 38                     | VSE:INT            |                       | AL IGIN AUTTO      | 06:10:08 AM                        | 4 Dec 06, 2018   | Erection                               |
| Ce      | nter Fr        | eq 13.01               | 5000000         | GHz<br>PNO: Fast →<br>FGain:Low | Trig: Fre<br>#Atten: 4 | Run<br>dB          | Avg Type<br>Avg Hold: | 4/100              | TRAC                               | E 123456<br>E MMMMMM<br>T A A A A A A                        | Frequency                              |
| 10      | dB/div         | Ref Offset<br>Ref 30.0 |                 |                                 |                        |                    |                       | м                  | kr2 25.7<br>-30.5                  | 66 GHz<br>24 dBm   | Auto Tune                              |
| 1.3     | 1.00           |                        |                 |                                 | -                      |                    |                       |                    | -                                  |  | Center Freq                            |
| 20      | 1              | 1                      | -               |                                 | -                      |                    |                       |                    | -                                  |  | 13.015000000 GHz                       |
| 10      | ľ              | 1.1                    |                 |                                 |                        |                    |                       |                    |                                    |  | Start Freq<br>30.000000 MHz            |
| 0.0     |                |                        | 1.1.1.1         |                                 |                        |                    |                       |                    |                                    |  | 30.000000 MH2                          |
| -10     |                | -                      | _               |                                 |                        |                    |                       |                    |                                    | -1 3,00 dtsin  | Stop Freq<br>26.00000000 GHz           |
| -20.    | a              |                        |                 |                                 |                        |                    | 1                     |                    |                                    | 3  |  |
| -30.    |                |                        | 1.              |                                 |                        |                    | monthing and          | maria              | manne                              | without  | CF Step<br>2.597000000 GHz<br>Auto Man |
| -40.    | - alman        | and service made       | mann            | me washing                      |                        | mun                |                       |                    |                                    |  |  |
|         | 0              |                        |                 |                                 |                        |                    |                       | -                  |                                    |  | Freq Offset<br>0 Hz                    |
| -50     | 12             |                        |                 |                                 |                        |                    |                       |                    |                                    |  |  |
| -50     | 0              |                        |                 |                                 |                        |                    |                       | 1                  |                                    |  |  |

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| Agilent Spectrum Analyzer - Swept   | SET SET                                       | USE:INT ALIGNAUTO  | 06:10:33 AM Dec 06, 2018   | Frequency                       |
|---|---|--|--|---------------------------------|
| Center Freq 79.500 kH   | PNO: Wide Trig: Free<br>IFGain:Low #Atten: 10 | Avg Type: RMS<br>Run Avg Hold: 8/100<br>0 dB   | TYPE MUMANANA<br>DET A A A A A A   | Frequency                       |
| 10 dB/div Ref 8.58 dBn  |   |  | 1kr1 119.685 kHz<br>-67.924 dBm  | Auto Tune                       |
| Log   |   |  |  | Center Freq                     |
| -1.42   |   |  |  | 79.500 kHz                      |
| -11.4   |   |  |  | Start Freq<br>9.000 kHz         |
| -21.4   |   |  |  |                                 |
|   |   |  | -39:00 dBm   | Stop Freq<br>150.000 kHz        |
| -51.4   |   |  |  | CF Step                         |
| -61.4   |   |  | 1.2221.42.21   | 14.100 kHz<br>Auto Man          |
| the second se | warman ward ward ward ward war                | worman have work and my hor  | And a marked and a state of the | Freq Offset                     |
| -81.4   | radiality and a state of the sources a        | Manesa Matta, hawaraha alan  | 1. A way the Collinsian  | 0 Hz                            |
| Start 0 00 kHz  | 4, 22, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, |  | Stop 150.00 kHz  |                                 |
| Start 9.00 kHz<br>#Res BW 1.0 kHz   | #VBW 3.0 kHz*                                 |  | 174.0 ms (1001 pts)  | 0                               |
| Agilent Spectrum Analyzer - Swept   | SA  | (arat  |  |                                 |
| Center Freq 15.07500  | D MHz<br>PNO: Fast<br>IFGain:Low #Atten: 10   | Avg Type: RMS<br>Run Avg Hold: 8/100   | 06:10:38 AM Dec 06, 2018<br>TRACE 1 2 3 4 5 6<br>TVPE MWANNAMA<br>DET A A A A A  | Frequency                       |
| Ref Offset 8.58<br>10 dB/div Ref 8.58 dBn   |   | 0 dB   | Mkr1 538 kHz<br>-55.999 dBm  | Auto Tune                       |
| -1.42   |   |  |  | Center Freq<br>15.075000 MHz    |
| 11.4  |   |  |  | 15.075000 MHz                   |
| -21.4   |   |  |  | Start Freq<br>150.000 kHz       |
| -31.4   |   |  |  |                                 |
|   |   |  |  | Stop Freq<br>30.000000 MHz      |
| ·61.4 1   |   |  |  | CF Step                         |
| -61.4 <b>- 1</b>  |   |  | · · · · · · · · · · · · · · · · · · ·  | 2.985000 MHz<br><u>Auto</u> Man |
| 71.4 UAAAA  |   |  | 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | Freq Offset                     |
| -81.4 Anthen Me   | have the mortanthe determine                  | ensurprise and the second states and the second   | all Man market and the state of the  | 0 Hz                            |
| Start 150 kHz   |   | and a design of the second   | Stop 30.00 MHz   |                                 |
| #Res BW 10 kHz  | #VBW 30 kHz*                                  |  | 368.3 ms (1001 pts)  |                                 |
| Agilent Spectrum Analyzer - Swept   | SA  |  |  |                                 |
| Center Freq 13.01500  | DOOD GHz<br>PNO: Fast Trig: Free              | Avg Type: RMS<br>Run Avg Hold: 4/100   | 06:10:42 AM Dec 06, 2018<br>TRACE 1 2 3 4 5 6<br>TYPE MWANAAAAA<br>DET A A A A A   | Frequency                       |
| Ref Offset 7.98   | IFGain:Low #Atten: 40                         | DdB  | Vkr2 25.714 GHz<br>-30.573 dBm   | Auto Tune                       |
| 10 dB/div Ref 30.00 dB  | m   |  | -30.573 dBm  | Center Freq                     |
| 20.0  |   |  |  | 13.015000000 GHz                |
| 10.0 0  |   |  |  | Start Freq                      |
| 0.00  |   |  |  | 30.000000 MHz                   |
| ×10.0   |   |  | -1 3.00 dbm  | Stop Freq                       |
| -20.0   |   |  |  | 26.000000000 GHz                |
| -30.0   |   | and the second second  | -amon another  | CF Step<br>2.597000000 GHz      |
| 40.0  | have many many many many many                 | and the same and a star way a survey a survey a survey a survey as a survey of the sur |  | <u>Auto</u> Man                 |
| and when how the  |   |  |  | Freq Offset                     |
| -50.0   |   |  |  | 0 Hz                            |
| and the second  |   |  |  | 0 Hz                            |

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| Frequency  | Dec 06, 2018   | 05:11:05 AM          |             | Aug Tur               | sence:m)   | 1                     | B DC                  | Analyzer Sw                 |                       | BL BL        |
|--|--|----------------------|-------------|-----------------------|--|-----------------------|-----------------------|-----------------------------|-----------------------|--------------|
| 1.           | 123456<br>M  |                      |             | Avg Type<br>Avg Hold: | nee Run<br>10 dB   | ide Tris              | CHZ<br>PNO<br>IFGa    | q 79.500                    | ter Free              | Cen          |
| Auto Tune  | 42 kHz<br>0 dBm                                      | r1 144.6<br>-66.59   | Mk          |                       |  |                       |                       | Ref Offset 8.<br>Ref 8.58 d | Bidiv F               | 10 dE        |
| Center Fred  | 1  |                      |             |                       |  |                       | H                     |                             | L                     | -1.42        |
| 79.500 kHz   |  |                      |             |                       |  |                       |                       |                             |                       | 127          |
| Start Fred<br>9.000 kHz                            |  |                      |             |                       |  |                       |                       |                             |                       | -11.4        |
| 1  |  |                      |             |                       |  |                       |                       |                             |                       | -21.4        |
| Stop Fred<br>150.000 kHz                           | -39:00 dfan  |                      |             |                       |  |                       | 1                     |                             |                       | -31.4        |
| CF Step  |  |                      |             |                       |  |                       |                       |                             |                       | -61.4        |
| 14.100 kHa<br>Auto Mar                             |  |                      |             |                       |  |                       |                       | 12 1                        |                       | -61.4        |
| Freq Offse   | in Jak   | An real              | 0.0.00      | at a M                |  |                       |                       | and and                     |                       | -71.4        |
| 0 Ha   | Manuk  | Manna                | A Add When  | Mundam A              | MARAM  | ANTA-Transmillar      | Mannahanan            | AMMANA                      | wwww                  | -81.4        |
|  |  |                      | 1           | 1                     | 1.   |                       | 1.2.4                 | 1.1.1.1.1                   |                       | 1.00         |
|  | 001 pts)   |                      | Sweep 1     | 5                     | z*   | #VBW 3.0              |                       | Hz<br>0 kHz                 | t 9.00 kl<br>s BW 1.0 | #Re:         |
|  | pled   | LDC Coup             | STATUS      |                       |  | _                     | ut-54                 | Analyzer Sw                 | d Sanctrum            | Aailaa       |
| Frequency  | Dec 06, 2018<br>1 2 3 4 5 6<br>Mummun<br>A A A A A A | 06:11:10 AM<br>TRACE | ALIGNAUTO   | Avg Type<br>Avg Hold: | sense Inir  <br>ree Run  | مر اب                 | ADC I                 | e⊫   ∞os<br>q 15.075        |                       |              |
| Auto Tune  |  |                      | 0/100       | Avginora.             | 10 dB  | ast Trig<br>ow #At    | IFGa                  |                             |                       | -            |
|  | 5 dBm  | Mkr1 5<br>-55.49     | _           |                       | -  |                       | m                     | Ref Offset 8.<br>Ref 8.58 d | 3/div F               | 10 de<br>Log |
| Center Fred<br>15.075000 MHz                       |  |                      |             |                       | _  |                       | 1                     |                             |                       | -1.42        |
| Dialst Fairs                                       |  |                      |             |                       | _  | _                     |                       |                             |                       | -11.4        |
| Start Fred<br>150.000 kHz                          |  | -                    |             |                       |  |                       | <u></u>               |                             |                       | -21.4        |
| Stop Fred  |  |                      |             |                       | -  |                       |                       |                             | -                     | -31.4        |
| 30.000000 MH                                       |  |                      |             |                       | _  |                       |                       |                             |                       | -41-4        |
| CF Step<br>2.985000 MH                             |  |                      |             |                       |  |                       |                       | -                           | •1                    | -61.4        |
| <u>Auto</u> Mar                                    |  |                      |             |                       | _  |                       |                       |                             | A.                    | 61.4         |
| Freq Offset<br>0 Hi                                |  |                      |             |                       | 1 1 1 1  |                       |                       | M                           | hA                    | -71.4        |
|  | manitan  | pachanglannag        | -           | Northernet-Alerter    | Alger Aundal Andrew  | and and and a stand   | Winner                | Amply                       | Y (                   | -81.4        |
|  | .00 MHz  | Stop 30              |             |                       |  |                       | h                     | Iz                          | t 150 kH              | Star         |
| -  | 001 pts)   | 58.3 ms (1           | Sweep 3     |                       | z*   | #VBW 30 H             |                       | ) KHZ                       | s BW 10               | #Re:         |
|  | Dec 06, 2018   | 05:11:13 AM          | al (GN AUTO | 2                     | SENSEINU   |                       | pt SA                 | Analyzer Sw                 | d Spectrum            | Agilen       |
| Frequency  | 123456<br>MMMMMM<br>AAAAAA                           | TRACE<br>TYPE<br>DE1 | 4/100       | Avg Type<br>Avg Hold: | ree Run<br>: 40 dB   | ast Trig              | 00000 GH              | q 13.015                    | ter Free              | Cen          |
| Auto Tune  |  | 12 26.00             | M           |                       | 10.00  |                       |                       | Ref Offset 7:<br>Ref 30.00  | Brack B               | 10 -10       |
| Center Fred  |  |                      | -           |                       |  | -                     | DIII                  | (er 50.00                   |                       | 10 dE<br>Log |
| 13.015000000 GH:                                   |  |                      |             |                       |  |                       |                       |                             | -                     | 20.0         |
| Start Fred   |  |                      |             |                       |  |                       |                       |                             | $Q^1$                 | 10.0         |
| 30.000000 MH;                                      |  |                      |             |                       |  |                       |                       | 10.00                       |                       | 0.00         |
| Stop Free<br>26.00000000 GHz                       | -1.3.00 sitem  |                      |             |                       | _  |                       |                       | -                           | _                     | -10.0        |
|  | 2  | -                    |             |                       |  |                       |                       | -                           |                       | 20.0         |
| CF Step<br>2.597000000 GH                          | month  | mound                |             |                       | -  |                       |                       |                             |                       | -30.0        |
| 2.597000000 GH                                     | 1.1.1.1.1.1.1.1                                      |                      |             | and the second        | enter an and a set   | and the second second | and the second second | manut                       | man                   | -40.0        |
| <u>Auto</u> Mar                                    |  |                      | 1.1         |                       | -  |                       |                       | -                           | 1.16.11               | -60.0        |
| 2.597000000 GH:<br>Auto Mar<br>Freq Offset<br>0 H: |  |                      |             |                       | the second secon |                       | 1.0.000               |                             | 1                     |              |
| Auto Mar<br>Freq Offset                            |  |                      |             |                       |  |                       |                       |                             |                       | -60.0        |

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| Aellent Spectrum And<br>WRL RE<br>Center Freq 7 | 9.500 kHz                               |   | sense;[n]/]            | ALIGA<br>Avg Type: RM                   | AUTO [06:10:1<br>S T     | 5.AM Dec 06, 2018<br>RACE 1 2 3 4 5 6   | Frequency                                  |
|---|---|---|------------------------|---|--------------------------|---|--|
|   |   | PNO: Wide Trig:<br>IFGain:Low #Atte     | Free Run<br>in: 10 dB  | Avg Type: RM<br>Avg Hold: 8/10          |                          | DET A A A A A A A A A A A A A A A A A A A   | 12512-00                                   |
| 10 dB/div Ref                                   | 0ffset 9.58 dB<br>8.58 dBm              | 1 1                                     | -                      |   | -65                      | 372 dBm   |  |
| -1.42   |   |   | -                      |   |                          | -   | Center Freq<br>79.500 kHz                  |
| -11.4   |   |   |                        |   |                          |   | Start Freq<br>9.000 kHz                    |
| -31.4   |   |   |                        |   |                          | -39:00 dDm  | Stop Freq<br>150.000 kHz                   |
| -51 A   |   |   |                        |   |                          | _   | CF Step<br>14.100 kHz<br>Auto Man          |
| -51.4 man 444                                   | Mundan                                  | when when when when when when when when | MAnonM                 | Mr. Man Mun M                           | MAMAN                    | white   | Freq Offset<br>0 Hz                        |
| -61.4   | · · · ·                                 | - and - Tr                              | 1.4.4                  | Ver editor                              |                          | 1 44  |  |
| Start 9.00 kHz<br>#Res BW 1.0 k                 | Hz                                      | #VBW 3.0 k                              | Hz*                    | Swe                                     | ep 174.0 m               |   |  |
| Aglient Spectrum And                            |   |   | SENSE: NTT             | ALIGA                                   | AUTO DE:10:2             | 0 aM Dec 05, 2018   | -  |
| Center Freq 1                                   |   |   | Free Run<br>m: 10 dB   | Avg Type: RM<br>Avg Hold: 8/10          | 0                        | DET A A A A A A   |  |
| 10 dB/div Ref                                   | Offset 8.58 dB<br>8.58 dBm              |   |                        |   | Mkr<br>-58               | 1 508 kHz<br>745 dBm  | Auto Tune                                  |
| -1.42   |   |   |                        |   |                          |   | Center Freq<br>15.075000 MHz               |
| -11.4   |   |   |                        |   |                          | 29-89-dBm   | Start Freq<br>150.000 kHz                  |
| -31.4   |   |   |                        |   |                          |   | Stop Freq<br>30.000000 MHz                 |
| -61 à   |   |   |                        |   |                          | -   | CF Step<br>2.985000 MHz<br><u>Auto</u> Man |
| -51.4   |   |   |                        |   |                          |   | Freq Offset<br>0 Hz                        |
| -61.4   | Annother Muhamiles                      | -uniter the words and the second state  | sumprove unificant     | -Antonio Antonio                        | abouterterrorenterroyaan | huturnalauna  |  |
| Start 150 kHz<br>#Res BW 10 kl                  | 1.                                      | #VBW 30 k                               |                        |   | Stop<br>368.3 m          | 30.00 MHz<br>s (1001 pts)   |  |
| Agilent Spectrum And                            | lyzer Swept SA                          |   | CONCE-INITI            | AL (52                                  | ETATUS DC C              |   | 1  |
| Center Freq 1                                   | 13.015000000                            | GHZ                                     | Free Run<br>en: 40 dB  | Avg Type: RM<br>Avg Hold: 4/10          | 0<br>0                   | RACE 1 2 3 4 5 6<br>TYPE MMAAAAAAA<br>DET A A A A A A   | Frequency                                  |
| 10 dB/div Ref                                   | Offset 7.98 dB<br>30.00 dBm             | 1 1                                     |                        |   | Mkr2 25<br>-30           | .636 GHz<br>827 dBm   | Auto Tune                                  |
| 20.0  |   |   |                        |   | -                        |   | Center Freq<br>13.015000000 GHz            |
| 10.0  |   |   |                        |   |                          |   | Start Freq<br>30.000000 MHz                |
| 0.00  |   |   |                        |   |                          | -1.3.00 dtsin   | Stop Freq<br>26.00000000 GHz               |
| 0.00<br>-10.0                                   |   |   |                        |   |                          |   |  |
| -10.0   |   |   |                        |   |                          | *   |  |
| -10.0   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Mar way to a contract of the second     | and and the survey way | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | man                      | - martin  | CF Step<br>2.597000000 GHz<br>Auto Man     |
| -10.0   | *******                                 |   |                        | ~~~~~                                   | inner and a second       | a contraction of the second |  |

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| Aglient | Spectrum A        | nalyzer - Swa  |                 |                               |                  |                    | .amaan                 |   | lz)_MCI  |   |                                     |
|---------|-------------------|--|-----------------|-------------------------------|------------------|--------------------|------------------------|---|--|---|-------------------------------------|
| LW RL   | 8                 | 79.500   | ADC             | 0.1011                        | Trig: Free       | ese:mini           | Avg Type:<br>Avg Hold: | RMS   | 06:10:49 AM<br>TRACI<br>TVP  | Dec 06, 2018<br>1 2 3 4 5 6<br>Mummunu<br>T A A A A A A | Frequency                           |
| 10 dB.  | Re<br>Idiv Re     | of Offset 8.5<br>of 8.58 dE  |                 | iO: Wide -►<br>Sain:Low       | #Atten: 10       | 0 dB               |                        |   | r1 133.2<br>-63.88   |   | Auto Tune                           |
| -1.42   | 1.7.1             |  | H               |                               |                  |                    |                        |   |  |   | Center Freq<br>79.500 kHz           |
| 11.4    | -                 |  |                 |                               |                  |                    |                        |   | -  |   |                                     |
| -21.4 - |                   |  |                 |                               |                  |                    |                        |   |  |   | Start Freq<br>9.000 kHz             |
| -31.4 = |                   |  |                 |                               |                  |                    |                        |   |  | - 39:00 dfim  | Stop Freq<br>150.000 kHz            |
| -41-4   |                   |  |                 |                               |                  |                    |                        |   |  |   | CF Step                             |
| -51.4 - |                   |  |                 |                               |                  |                    |                        |   | •1   | 110   | 14.100 kHz<br>Auto Man              |
|         | Marthan           | When Annah   | Manyan          | nowman                        | man when         | Man                | www.                   | white   | mmm  | WANN  | Freq Offset<br>0 Hz                 |
| -61.4 - |                   |  |                 |                               |                  |                    |                        |   |  | 1 8 - Con 1   |                                     |
| #Res    | 9.00 kH<br>BW 1.0 | z<br>kHz   |                 | #VBW                          | 3.0 kHz*         | <u></u>            | 5                      |   | 74.0 ms (*   |   |                                     |
| LW RL   | 8                 | nalyzer Swe  | ADC             | 1                             | 50-7             | USE:INT            |                        | N KAN AUTO  | DC Cou   | Dec 06, 2018  | _                                   |
| Cent    | er Freq           | 15.0750  | DOO MHZ         | NO: Fast -+<br>Sain:Low       |                  |                    | Avg Type:<br>Avg Hold: | 8/100   | TRAC<br>TVP<br>DE  | 123456<br>MMMMMM<br>TAAAAAA                             | Frequency                           |
| 10 dB.  | Re<br>div Re      | of Offset 8.6<br>of 8.58 de  |                 |                               |                  |                    | <u> </u>               | _   | Mkr1 5   | 38 kHz<br>8 dBm   | Auto Tune                           |
| -1 42 - | 17.1              |  |                 | -                             |                  |                    |                        |   |  |   | Center Freq<br>15.075000 MHz        |
| -11.4   | -                 |  |                 |                               |                  |                    |                        |   |  |   | Start Freq                          |
| -21.4   |                   |  |                 |                               |                  |                    |                        |   |  | +20-80-dDm  | Start Freq<br>150.000 kHz           |
| -31.4   | -                 |  |                 |                               |                  |                    |                        |   |  |   | Stop Freq                           |
| -41.4   |                   |  |                 |                               |                  |                    |                        |   |  |   | 30.000000 MHz                       |
| -61.4   | ¢1                |  |                 |                               |                  |                    |                        |   |  |   | CF Step<br>2.985000 MHz<br>Auto Man |
| -61.4   | h pul             |  |                 |                               |                  |                    |                        |   |  |   | FreqOffset                          |
| -71.4 - | WM                | Manan  | n               |                               |                  |                    | 4                      | lesser -  |  |   | 0 Hz                                |
|         | 150 KHz           | per series en el conserie de la cons | a station with  | MAR-AU-MERIPANYA              | hornwij horrikan | (11)masa/2444.2mg) | nter-Anteriologia      | through the second  | HANNAN WILLAN  | 0.00 MHz  |                                     |
| #Res    | BW 10             | kHz  |                 | #VBW                          | 30 kHz*          |                    | 5                      |   | 68.3 ms (  | 1001 pts)   |                                     |
| LM RL   | 8                 | nalyzer Swe<br>13.0150   | ALL C           | Hz                            | ser              | vse:Inir           | Avg Type:<br>Avg Hold: | RMS   | 06:10:57 AM  | Dec 06, 2018  | Frequency                           |
|         | Re                | offset 7.9   | PH<br>IFC       | HZ<br>10: Fast -+<br>Sain:Low | #Atten: 4        | e Run<br>D dB      | Avg Hold:              |   | kr2 25.7   | 66 GHz  | Auto Tune                           |
| 10 dB.  | aiv Re            | ef 30.00 c   | main            |                               | -                |                    |                        |   | -00.0  |   | Center Freq                         |
| 20.0    | A1                |  |                 |                               |                  |                    |                        |   |  |   | 13.015000000 GHz                    |
| 10.0    | Ŷ                 |  |                 |                               |                  |                    |                        |   |  |   | Start Freq<br>30.000000 MHz         |
| -10.0   |                   |  |                 |                               |                  |                    |                        |   | ·······  |   |                                     |
| 20.0    |                   |  |                 |                               |                  |                    |                        |   |  | -1.3,00 dbin  | Stop Freq<br>26.00000000 GHz        |
| -30.0 - |                   |  |                 |                               | _                |                    |                        | -   |  |   | CF Step<br>2.597000000 GHz          |
| -40.0   | an and the second | maner  | auntan more con | tents places and some         | manner           | warm a marger      | and the second         | and the second | and the second | and here and  | Auto Man                            |
|         |                   |  |                 |                               |                  |                    | 1                      | -   |  |   | Freq Offset<br>0 Hz                 |
| -50.0   |                   |  |                 |                               |                  |                    |                        |   |  |   |                                     |
| -60.0   |                   |  |                 |                               |                  |                    |                        |   |  |   |                                     |

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| Agilent S         | pectrum Analyze       | r - Swept SA                           |                               |                        | NSE-INTT                   |                        | unaraumo-       | In6(13-31 AA         | Dec 06, 2018                                 |  |
|-------------------|-----------------------|--|-------------------------------|------------------------|----------------------------|------------------------|-----------------|----------------------|--|--|
|                   | er Freq 79.           | 500 kHz                                | PNO: Wide                     | Trig: Fre              | e Run                      | Avg Type:<br>Avg Hold: | RMS<br>8/100    | TRAC                 | 123456<br>MMMMMM<br>A A A A A A              | Frequency                              |
| 10 dB/d           | Ref Offs              | set 9.59 dB<br>58 dBm                  | IFGain:Low                    | #Atten: 1              | U ab                       |                        | Mki             | 1 112.6              | 35 kHz<br>5 dBm                              | Auto Tune                              |
| -1.42             |                       | e i prese                              |                               |                        |                            |                        |                 |                      |  | Center Freq<br>79.500 kHz              |
| -11.4             |                       |  |                               |                        |                            |                        | -               |                      |  |  |
| -21.4             |                       |  | _                             |                        |                            |                        |                 |                      |  | Start Freq<br>9.000 kHz                |
| -31.4             |                       |  | _                             |                        |                            |                        |                 | -                    | -39:00 dtwn                                  | Stop Freq<br>150.000 kHz               |
| -41-4             |                       |  |                               |                        |                            |                        |                 |                      |  |  |
| -61.4             |                       |  |                               |                        |                            |                        |                 |                      |  | CF Step<br>14.100 kHz<br>Auto Man      |
|                   | Mynam                 | Anthonestan                            | Mananthar                     | ALAN MAN               | mont                       | manantin               | MA MAN          | Munhan               | matrue                                       | FreqOffset                             |
| -81.4             | e estatat i           | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                               | 11919                  | • i i i                    |                        | aut Mu          | 4 10 4               | ч., т. м.                                    | 0 Hz                                   |
| Start 9           | 9.00 kHz              |  | Aug. 2 - 1 -                  | 1000                   |                            |                        |                 | Stop 15              | 0.00 kHz                                     |  |
| #Res I            | BW 1.0 KHz            |  | #VB                           | N 3.0 KHZ              |                            | s                      | Sweep 17        | 4.0 ms (<br>DC Cou   | 1001 pts)                                    |  |
| LW RL             | RE<br>RE<br>Preq 15.1 | 50 9 A DC -                            |                               | 52                     | NISE: INT                  | Ave Tune               |                 | 05:11:26 AM          | Dec 06, 2018                                 | Frequency                              |
| Cente             |                       |  | HZ<br>PNO: Fast<br>IFGain:Low | #Atten: 1              | e Run<br>0 dB              | Avg Type:<br>Avg Hold: | 8/100           |                      | 57 kHz                                       | Auto Tune                              |
| 10 dB/d           | div Ref 8.            | set 8.58 dB<br>58 dBm                  |                               | -                      |                            |                        | _               | -60.3                | 11 dBm                                       |  |
| -1.42             |                       |  |                               |                        |                            |                        | -               |                      | _  | Center Freq<br>15.075000 MHz           |
| -11.4             |                       |  |                               |                        |                            |                        |                 |                      | -  | Start Freq                             |
| -21.4             |                       |  | _                             |                        |                            |                        |                 | -                    | +29-89-dBm                                   | 150.000 kHz                            |
| -31.4             |                       |  |                               |                        |                            |                        |                 |                      |  | Stop Freq<br>30.000000 MHz             |
| -41.4             | 21                    |  |                               |                        |                            |                        |                 | _                    |  | CF Step                                |
| ·61.4             | 1                     | 1.00                                   |                               | _                      |                            |                        |                 | _                    |  | 2.985000 MHz<br><u>Auto</u> Man        |
| -71.4             | MAL                   | 1                                      |                               |                        |                            |                        |                 |                      | 10-00  | Freq Offset<br>0 Hz                    |
| -81.4             | 1 1 464               | p Ar Aman                              | yery, differing and distances | Mally-we-walk to chart | University that the second | deliver standstan      | white white doe | Wellin Minn          | (many have been                              |  |
| Start 1<br>#Res E | 150 kHz<br>BW 10 kHz  |  |                               | N 30 kHz*              | 1.4                        |                        | Sweep 36        | Stop 3               | 0.00 MHz                                     |  |
| MSG               |                       |  | 018 00                        |                        |                            |                        |                 | L DC Cou             |  |  |
| BI BI             | Pectrum Analyze       | 1901 Q AL                              | O GHz<br>PNO: Fast            | St.                    | e Run                      | Avg Type:<br>Avg Hold: | RMS             | 05:11:29 AN          | Dec 06, 2018<br>1 2 3 4 5 6<br>M M A A A A A | Frequency                              |
| 10 48/4           | Ref Offs              | et 7.98 dB                             | IFGain:Low                    | #Atten: 4              | 0 dB                       |                        |                 | r2 26.0              | 00 GHz<br>38 dBm                             | Auto Tune                              |
| 10 dB/d<br>20 0   |                       |  | -                             |                        |                            |                        |                 |                      |  | Center Freq                            |
| 10.0              | ~1                    |  |                               |                        |                            |                        |                 |                      |  | 13.015000000 GHz                       |
| 0.00              | Ŷ.                    |  |                               |                        |                            |                        |                 |                      | 1  | Start Freq<br>30.000000 MHz            |
| -10.0             |                       | _                                      |                               |                        |                            |                        |                 |                      | -1.3,00 siten                                | Stop Freq                              |
| 20.0              |                       |  |                               | -                      |                            |                        | -               |                      |  | 26.000000000 GHz                       |
| -30.0             |                       |  |                               |                        |                            |                        | American        | and the phase of the | mont   | CF Step<br>2.597000000 GHz<br>Auto Man |
| -40.0             | Jamestran             | and the state                          | and in succession             |                        | and an and the second      | Tarres                 |                 |                      |  | FreqOffset                             |
| -50.0             |                       |  |                               |                        |                            |                        |                 |                      |  | 0 Hz                                   |
|                   |                       |  |                               |                        |                            |                        |                 |                      |  |  |
| 1.1               | 30 MHz                |  |                               |                        |                            |                        |                 | -                    | 5.00 GHz                                     |  |

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| DW/ F          | RL I            | rum Ana<br>Ri- | 9.500                        | ADC           | 1                               | 98   | USE:INT  | Avg Type<br>Avg Hold | ALIGNAUTO                     | 06:11:49 AN                            | 1 Dec 06, 2018<br>E 1 2 3 4 5 6<br>E Museum<br>T A A A A A A   | Frequency                                     |
|----------------|-----------------|----------------|------------------------------|---------------|---------------------------------|--|--|----------------------|-------------------------------|--|--|---|
|                | (B/div          |                | Offset 8.<br>8.58 d          |               | PNO: Wide -+<br>FGain:Low       | #Atten: 4  | e Run<br>0 dB  | Avg Hold             |                               | Mkr1 9.5                               | 564 kHz<br>57 dBm  | Auto Tune                                     |
| -1.42          | 10.7            | -              |                              | 1             |                                 |  |  |                      |                               |  |  | Center Freq<br>79.500 kHz                     |
| -11-2          | 1               |                |                              |               |                                 |  |  |                      | -                             |  |  | Start Freq<br>9.000 kHz                       |
| -31.4          | 1               |                |                              |               |                                 |  |  |                      |                               |  | -39.00 dl3m  | Stop Freq<br>150.000 kHz                      |
| -61 4          | halling         | w and          | Maynur                       | when the line | Annes                           |  |  |                      |                               |  |  | CF Step<br>14.100 kHz<br>Auto Man             |
| -61.4<br>-71.4 | 1               |                |                              | 1.47 - 219    | al hy have have been a          | Whangthe   | wanthat  | mAMI                 | VANARY                        | anal Warn                              | WWWWW  | Freq Offset<br>0 Hz                           |
| -61.4          | rt 9.00         | -              |                              |               |                                 |  |  |                      | 1                             | <u> </u>                               | 0.00 kHz   |   |
| #Re<br>MSG     | es BW           | 1.0 k          | 1.1                          |               | #VBV                            | V 3.0 KHZ'   |  | 8                    |                               | 5100 15<br>74.0 ms (                   | 1001 pts)  |   |
| 1.34/ F        | RL I            | RE             | 5.075                        |               | PNO: Fast -+                    | Se Trig: Fre   | use:Inir <br>e Run   | Avg Type<br>Avg Hold | al IGNAUTO<br>: RMS<br>8/100  | 06:11:54 AA<br>TRAC<br>TYF             | 1 Dec 06, 2018<br>E 1 2 3 4 5 6<br>E MMMMMMM<br>T A A A A A A  | Frequency                                     |
| 10 0           | B/div           | Ref (          | Offset 8.<br>8.58 d          |               | FGain:Low                       | #Atten: 1  | 0 dB   |                      |                               | 1kr1 1.3                               | 44 MHz<br>39 dBm   | Auto Tune                                     |
| -1.42          | 2               | -              |                              |               |                                 |  |  |                      |                               |  |  | Center Freq<br>15.075000 MHz                  |
| -11.4          | 1               |                |                              |               |                                 |  |  |                      |                               |  | 29-89 dBm  | Start Freq<br>150.000 kHz                     |
| -31.4          |                 |                | 1                            |               |                                 |  |  |                      |                               |  | 1  | Stop Freq<br>30.000000 MHz                    |
| -61.4          |                 | 1              |                              |               |                                 |  |  |                      |                               |  |  | CF Step<br>2.985000 MHz<br>Auto Man           |
| -51.4          | habily          | WA             |                              |               |                                 |  |  |                      |                               |  |  | Freq Offset                                   |
| -81.4          | 1               |                | Non Ad                       | MAN WALLOW    | thermound                       | philipsenteennew   | , muquintageling   | adalaan ayaan        | urknin VH Mu                  |  |  |   |
| Sta<br>#Re     | rt 150<br>es BW | KHZ<br>10 KH   | Ηz                           |               | #VBV                            | V 30 kHz*  |  |                      |                               | Stop 3<br>68.3 ms (<br><u>1</u> DC Cou |  |   |
| DW/ F          | RL I            | RE             | 19201 Sw<br>1950 s<br>13.015 | AC            | GHz<br>PNO: Fast →<br>FGain:Low |  | vse:INT  | Avg Type<br>Avg Hold | al IGN AUTO<br>: RMS<br>4/100 | 06:11:57 AN<br>TRAC<br>TYP             | Dec 06, 2018<br>E 1 2 3 4 5 6<br>E Musanawa<br>T A A A A A A A | Frequency                                     |
| 10 g           | B/div           | Ref (          | Offset 7:<br>30.00           |               | FGain:Low                       | #Atten: 4  | 0 dB   |                      |                               | kr2 25.7                               |  | Auto Tune                                     |
| 20 0           | 4               |                | -                            | 1             |                                 |  |  |                      |                               |  |  | Center Freq<br>13.015000000 GHz               |
| 0.00           |                 |                |                              |               |                                 |  |  |                      |                               |  |  | Start Freq<br>30.000000 MHz                   |
| -10.0          |                 |                | -                            |               |                                 |  |  |                      |                               |  | -13,00 dDm   | Stop Freq<br>26.000000000 GHz                 |
| -30.0          |                 |                |                              |               |                                 |  |  |                      | man                           | monorium                               | - Vin M  | CF Step<br>2.597000000 GHz<br><u>Auto</u> Man |
| -40.0          | the             | when           | metros of                    |               | - martine                       | the second s | and the second |                      |                               |  |  | Freq Offset                                   |
| -60.0          | 12.7            |                |                              |               |                                 |  |  |                      | -                             |  |  | 512   |
| Sta            | rt 30 f         | VIHz<br>1.0 N  | 1                            | -             |                                 | V 3.0 MHz  |  |                      |                               | Stop 2                                 | 6.00 GHz<br>1001 pts)  |   |

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| 1.364 | RL     | eetrom /   | Analyzer<br>RF 3     | Swept SA       |             | (-)                             |                   | sense: IN (      |                     | al feat at th         | MHz)_N                            |  |  |
|-------|--------|------------|----------------------|----------------|-------------|---------------------------------|-------------------|------------------|---------------------|-----------------------|-----------------------------------|--|--|
| Ce    | enter  | Frec       | 179.50               | 0 kHz          |             | O: Wide -<br>iain:Low           | Trig: F<br>#Atten | nee Run<br>10 dB | Avg T<br>Avg H      | /pe: RMS<br>id: 8/100 | TRA                               | M Dec 06, 2018<br>ACE 1 2 3 4 5 6<br>APE M M M A A A A A<br>DET A A A A A A A  | Frequency                              |
| 10    | dB/div | V R        | ef Offset<br>ef 8.58 | 9.69 dE<br>dBm |             |                                 |                   |                  |                     | r                     | Akr1 106.<br>-71.7                | 713 kHz<br>53 dBm  | Auto Tune                              |
| -1.4  | Chi.   | 1.1        |                      | 1111           |             |                                 |                   |                  |                     |                       |                                   |  | Center Freq<br>79.500 kHz              |
| 41    | 21     |            |                      |                |             |                                 |                   |                  |                     |                       |                                   |  | 79.000 KH2                             |
| -21   | 4      |            |                      |                |             |                                 |                   | -                |                     |                       |                                   |  | Start Freq<br>9.000 kHz                |
| -31   |        |            | 10.00                | 41.44          | -           |                                 |                   |                  |                     |                       |                                   | -39:00-df3m  | Stop Freq                              |
| -041  |        |            |                      |                |             |                                 | _                 | _                |                     | _                     | _                                 |  | 150.000 kHz                            |
| -51   | . a    | _          |                      |                | _           |                                 |                   |                  | _                   | -                     |                                   |  | CF Step<br>14.100 kHz                  |
| -61   |        | _          | -                    | -              |             |                                 |                   | _                | _                   | 1                     | _                                 |  | <u>Auto</u> Man                        |
| -71   |        | и.         | -                    |                |             |                                 | <i>n</i>          | Λ                | A                   | MIL A                 |                                   | MA   | Freq Offset<br>0 Hz                    |
| -61   | MI.    | Mahan      | mary                 | samo           | MPMAN       | and M.M.                        | white white       | Mary my          | Marshyn             | mall and have         | maran pallal                      | www.raw  |  |
| Sta   | art 9. | 00 kH      | Iz                   | -              | -           |                                 | 1000              |                  |                     |                       | Stop 1                            | 50.00 kHz  |  |
| #R    | kes B  | W 1.0      | KHZ                  |                |             | #VB                             | N 3.0 KH          | z*               |                     |                       | 174.0 ms                          |  |  |
| 8.X/  | RL     |            | Analyzer<br>RF. 13   | DRADE          | -           | 1                               |                   | sense:Iniv       |                     | ALIGNAUT              | 0 ]06:12:28                       | AM Dec 06, 2018  | Frequency                              |
| Ce    | enter  | Frec       | 1 15.07              | 5000           | MHZ         | IO: Fast -<br>iain:Low          | Trig: F<br>#Atten | tee Run<br>10 dB | Avg T<br>Avg H      | /pe: RMS<br>id: 8/100 | TRA                               | NET A A A A A A  | 1                                      |
| 10    | dB/di  | R          | ef Offset<br>ef 8.58 | 8.68 dE<br>dBm | 8           |                                 |                   |                  |                     |                       | Mkr1 2.0<br>-60.2                 | 687 MHz<br>250 dBm   | Auto Tune                              |
| -1.4  | K. H.  | 1          |                      | 11 11          |             |                                 |                   |                  |                     |                       |                                   |  | Center Freq                            |
| -11   | CL.    |            |                      |                |             |                                 |                   |                  |                     |                       |                                   |  | 15.075000 MHz                          |
| -21   |        |            |                      |                |             |                                 |                   |                  |                     |                       |                                   | +29-80-dBm   | Start Freq<br>150.000 kHz              |
| at    | 10     |            |                      |                |             |                                 |                   |                  |                     |                       |                                   | -45 00 1400  |  |
| -41   |        |            |                      |                |             |                                 |                   |                  |                     |                       |                                   |  | Stop Freq<br>30.000000 MHz             |
| -61   |        | _          |                      |                | 1.1         |                                 |                   |                  |                     |                       |                                   |  | CF Step                                |
| -61   | 10     | •          | 1                    |                |             |                                 |                   |                  |                     |                       |                                   | 1  | 2.985000 MHz<br><u>Auto</u> Man        |
| -71   | Hind a | MAN A      | 1                    | 1111           |             |                                 |                   |                  |                     |                       |                                   | 10000  | Freq Offset                            |
| -61   | .4     | 2.2        | "hunder              | Wm             | No. A. Park | when when                       | www.              | ANNO-GOULAND     | homesterior and the | terner Whater         | n and a contraction of the second | and and a start of the start of | 0 Hz                                   |
| St    | art 1  | 50 KH      |                      |                |             | To a construction of the second |                   |                  |                     | 1                     |                                   | 30.00 MHz  |  |
| #R    | tes B  | W 10       | KHZ                  |                |             | #VB                             | N 30 KH:          | *                |                     |                       | 368.3 ms                          | (1001 pts)   |  |
|       | RL     | ectrum /   | Analyzer             | Swept SA       |             |                                 | _                 | SENGEINIT        |                     | AL (GN AUT            | 0. 106-12-21                      | M Dec 05, 2019   |  |
| Ce    | enter  | Frec       | 13.01                | 50000          | 000 G       | Hz<br>10: Fast -<br>ialn:Low    | CHOICE            | ee Run           | Avg T<br>Avg H      | /pe: RMS<br>id: 4/100 | TEA                               | M Dec 06, 2018<br>ACE 1 2 3 4 5 6<br>VPE M MANAGEM<br>DET A A A A A A  | Frequency                              |
| 10    | dBido  | R          | ef Offsel<br>ef 30.0 | 7.98 dE        |             | amicow                          |                   |                  |                     |                       | Mkr2 25.                          |  | Auto Tune                              |
| 1.5   | dB/div | <u>v n</u> | 00.0                 | u destri       | 1           |                                 |                   |                  |                     |                       |                                   |  | Center Freq                            |
| 20    |        | .1         |                      |                |             |                                 |                   |                  |                     |                       |                                   |  | 13.015000000 GHz                       |
| 10    |        | <i>.</i>   |                      |                |             |                                 |                   |                  |                     |                       |                                   | · · · · · ·  | Start Freq<br>30.000000 MHz            |
| 0.0   | 00     |            | 1.0                  |                |             |                                 |                   |                  |                     |                       |                                   | 1.1  | 30.00000 MH2                           |
| -10   |        |            | -                    |                | -           |                                 | -                 | -                |                     | -                     |                                   | -1.3,00 dtsin  | Stop Freq<br>26.00000000 GHz           |
| -20   |        |            |                      |                |             |                                 |                   |                  |                     |                       |                                   | 3  | CE Step                                |
| -30   | 11     | -          |                      |                | 1.1         | -                               | 1                 |                  | money               | -                     | mound                             | mon three and  | CF Step<br>2.597000000 GHz<br>Auto Man |
| -40   | ~      | www.ww     | - Server             | - Andrew       | -www.co     | the second                      | - Automation      |                  |                     |                       |                                   | Thursday 1   | Freq Offset                            |
| -50   |        | -          |                      | 11             |             |                                 |                   |                  |                     |                       |                                   | 1.000  | 0 Hz                                   |
| 1.55  | 0.0    |            |                      |                |             |                                 |                   |                  |                     |                       |                                   |  |  |
| -60   |        |            |                      | 1, 1           |             |                                 |                   | i. I             |                     | 11                    | 1.5                               | 26.00 GHz  |  |

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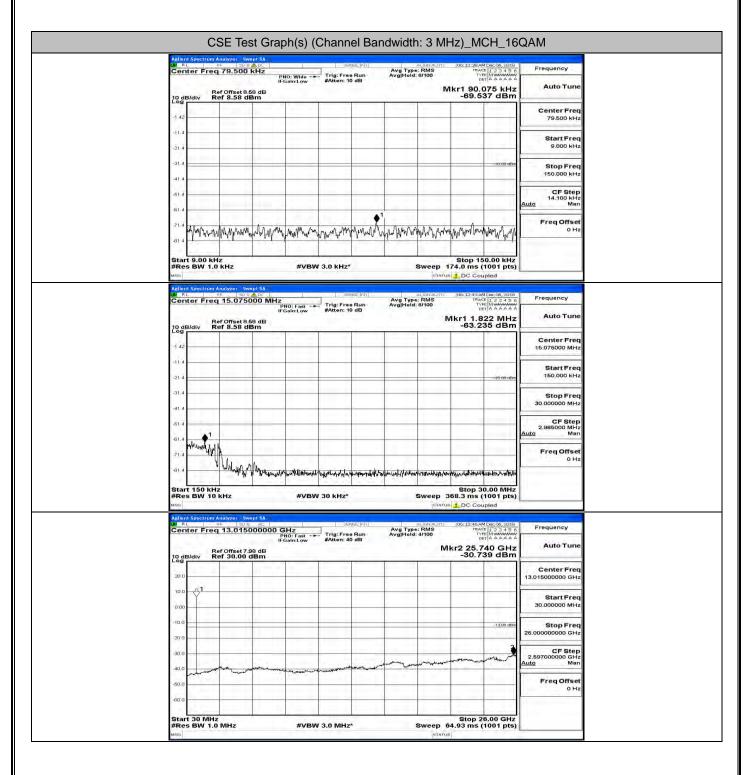
| E MA F    | RL               | um Analyzer<br>RF    | 50 9 A DC  |                               | 9                 | enuse:inin]       |                       |                    | 06:12:54 AM        | 1 Dec 06, 2018                             |                              |
|-----------|------------------|----------------------|--|-------------------------------|-------------------|-------------------|-----------------------|--------------------|--------------------|--|------------------------------|
| Cer       | nter Fr          | eq 79.5              | 00 kHz   | PNO: Wide                     | #Atten:           | e Run<br>10 dB    | Avg Type<br>Avg Hold: | 8/100              | TRAC               | E 123456<br>E MMMMMM<br>T A A A A A A      | Frequency                    |
| 10 4      | dB/div           | Ref Offse<br>Ref 8.5 | t 8.58 dB<br>8 dBm   |                               |                   |                   |                       | м                  |                    | 768 kHz<br>38 dBm                          | Auto Tune                    |
| 130       | 1 in **          |                      |  | -                             |                   |                   |                       |                    |                    | -  | Center Free                  |
| -1.42     | Î.               |                      |  |                               |                   |                   |                       |                    |                    |  | 79.500 kHz                   |
| -31.4     |                  |                      |  |                               |                   |                   |                       |                    |                    |  | Start Fred<br>9.000 kHz      |
| -31.4     | and the second   |                      |  |                               |                   |                   |                       | 1 2                |                    | -39:00 dDm                                 |                              |
| -41.8     |                  |                      |  |                               |                   |                   |                       |                    |                    |  | Stop Frec<br>150.000 kHz     |
| -61.4     | a                |                      |  | 1                             |                   |                   |                       | _                  |                    |  | CF Step                      |
| -61.4     | 4                | 100                  |  | 1                             |                   |                   |                       | _                  |                    |  | 14.100 kHa<br>Auto Mar       |
| -71.4     | 4                |                      | - Holens   |                               | -                 |                   |                       |                    | 1 1                |  | Freq Offser                  |
| -81 4     | " while ?        | manny                | mount  | Marken Mark                   | app mapp          | Man Maria         | LVMM A                | mym                | rwhymph            | MMMM                                       | UH.                          |
| Sta       | art 9.00         | kHz                  |  |                               |                   |                   |                       |                    | Stop 15            | 0.00 kHz                                   |                              |
| #Re       | es BW            | 1.0 kHz              |  | #VB                           | N 3.0 KHZ         | *                 |                       |                    | 74.0 ms (          | 1001 pts)                                  |                              |
| Agile     |                  | um Analyzer          | Swept SA   |                               | 1                 | FRUSE INTY        |                       | N IGNUM TO         |                    | 1 Dec 06, 2018                             | 1                            |
| Cer       | nter Fr          | eq 15.0              | 75000 MI   | IZ<br>PNO: Fast<br>IFGain:Low | The second second | e Run             | Avg Type<br>Avg Hold: | : RMS<br>8/100     | TRAC<br>TYPE       | E 1 2 3 4 5 6<br>E MMMMMM<br>T A A A A A A | Frequency                    |
| 10 c      | dB/div           | Ref Offse<br>Ref 8.5 | t 8.68 dB<br>8 dBm   | I-Gain:Low                    | saten.            |                   |                       | N                  | 1kr1 2.2           | 40 MHz<br>73 dBm                           | Auto Tune                    |
| -1.42     | 2                | -                    |  | -                             |                   |                   |                       | -                  |                    |  | Center Fred<br>15.075000 MHz |
| -11.2     | 4                | -                    |  | -                             | -                 | -                 |                       |                    | _                  |  | Private and                  |
| -21 4     | 4                |                      |  |                               |                   |                   |                       | _                  |                    |  | Start Fred<br>150.000 kHz    |
| -31.4     | 4                | -                    |  | -                             |                   |                   |                       |                    |                    |  | Stop Free                    |
| -41.8     | *                | _                    | _  |                               |                   |                   |                       |                    |                    |  | 30.000000 MHz                |
| -61 4     | a                | .1                   | -  |                               |                   | -                 |                       |                    | -                  |  | CF Step<br>2.985000 MH       |
| -61.4     | 4 John Strange   | 1.                   |  |                               |                   |                   |                       | -                  |                    |  | <u>Auto</u> Mar              |
| -71.4     | 4                | Wh.                  |  |                               | -                 | -                 |                       |                    |                    |  | Freq Offset<br>0 Ha          |
| -81.4     | 4                | - Windowski          | Will Wound   | the state of the second       | wheeling          | nknowhichmi       | anna la chuilteanna   | eryspondar-talking | unicional filles   | annal Mansen May                           |                              |
| Sta<br>#P | art 150<br>es BW | kHz                  |  |                               | V 30 kHz          |                   | -                     | Sweep 3            | Stop 3             | 0.00 MHz                                   |                              |
| MRO       |                  | TO KITZ              |  | # <b>7</b> .0.                | V 30 KHZ          |                   |                       |                    | DC Cou             |  |                              |
| 8.364 F   | RL               | em Analyzer<br>SF    | 50 Q AC  | CH-                           | 3                 | INSE:INT          | Ava Type              | ALIGNAUTO          | 06:13:02 AN        | 1Dec 06, 2018                              | Frequency                    |
| Cer       | nter Fi          | eq 13.0              | 1500000  | PNO: Fast<br>IFGain:Low       | #Atten: 4         | ie Run<br>10 dB   | Avg Type<br>Avg Hold: |                    |                    | E 123456<br>E Mutanana<br>T A A A A A A    | Auto Tune                    |
| 10 0      | dB/div           | Ref Offse<br>Ref 30. | t 7.98 dB<br>00 dBm  |                               |                   |                   |                       | MI                 | -30.9              | 88 GHz<br>22 dBm                           | Auto Tulk                    |
| 20.0      | 11.2             | 17.0                 | 1.11   | -                             |                   |                   |                       |                    | -                  |  | Center Fred                  |
| 10.0      | 1                | 1.0                  |  |                               |                   |                   |                       |                    | -                  |  |                              |
| 0.00      | 0                |                      |  | 1 1 1 1                       |                   |                   |                       | 1                  |                    |  | Start Fred<br>30.000000 MHz  |
| -10.0     | ά                |                      |  | 1                             |                   |                   |                       |                    |                    | -13,00 dbin                                | Stop Fred                    |
| -20.0     | a                |                      |  |                               |                   |                   |                       |                    |                    |  | 26.000000000 GHz             |
|           |                  |                      |  | _                             |                   |                   |                       |                    |                    |  | CF Step<br>2.597000000 GH    |
| -30.0     | 0                |                      |  |                               |                   | 1                 | my men and            | manine             | adarter the grants | mart                                       | Auto Mar                     |
| -30.0     |                  | -                    | man Man  | mummente                      |                   | and the second    | -                     |                    |                    |  |                              |
| 1 C.1     | ° marine         | -                    | and the second s | Hamping particularies         | -track have t     | Service and the   |                       | 1 1                |                    | -  | Freq Offse                   |
| -40.0     | 0                |                      | an the second  | hround an a part of the       | rement and        | The second second | ~                     |                    |                    |  |                              |

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| Agl      | lient S       | pectrum  | Analyze                 | Swep             | SA          | -                             |                   |                      | 101      |                      |                 | The other          | M Dec 06, 2018  | 1                                     |
|----------|---------------|--|-------------------------|------------------|-------------|-------------------------------|-------------------|----------------------|----------|----------------------|-----------------|--------------------|---|---------------------------------------|
|          |               | r Fre  | q 79.5                  | 00 kl            | -Iz         | PNO: Wide<br>FGain:Low        | Trig              | Free Ru              | n        | Avg Type<br>Avg Hold | : RMS<br>8/100  | TRA<br>TRA         | CE 1 2 3 4 5 6<br>PE MWAAAAAA<br>ET A A A A A A                   | Frequency                             |
| 10       | dB/d          | liv F  | Ref Offs<br>Ref 8.5     | et 9.69<br>8 dBr |             | FGain:Low                     | #Att              | en: 10 dB            |          |                      |                 | cr1 130.           | 965 kHz<br>72 dBm   | Auto Tune                             |
| -1-      | ć h           |  |                         |                  |             |                               |                   |                      |          |                      |                 |                    |   | Center Free<br>79.500 kH              |
| 40<br>10 |               |  |                         |                  |             |                               |                   |                      |          |                      |                 |                    |   | Start Free<br>9.000 kH                |
| -31      |               |  |                         |                  |             |                               |                   |                      |          |                      |                 |                    | -39:00 dDm  | Stop Free                             |
| -41      |               | -  |                         |                  |             |                               |                   |                      |          |                      |                 |                    |   | 150.000 kH<br>CF Ster                 |
| -61      |               |  |                         |                  |             |                               |                   |                      |          |                      |                 |                    |   | 14.100 kH<br>Auto Mar                 |
| -71      | W             | Man  | WWW                     | WAWA             | An MM       | 1. m. M.                      | My my my          | wwww                 | martin   | WWW                  | MUMMAA          | wante              | Manan   | Freq Offse<br>0 H                     |
| -61      |               |  |                         |                  | 4.          | ,                             |                   |                      | ich û    |                      | 1 1             |                    | 50.00 kHz   |                                       |
| #R       | ants<br>Res E | 9.00 k<br>3W 1.  | 0 KHZ                   |                  | -           | #VI                           | 3W 3.0 I          | (Hz*                 |          |                      |                 | 174.0 ms           | (1001 pts)  |                                       |
| 1.34     | RL            |  | Analyze<br>RF<br>q 15.0 | 50 9 A           | DC I        | 4                             |                   | SERVISE (1           | nin]     | Avg Type<br>Avg[Hold | ALIGNAUTO       | 06:12:10.4<br>TRA  | M Dec 06, 2018<br>CE 1 2 3 4 5 6<br>PE M M A A A A A              | Frequency                             |
|          |               |  | Ref Offs<br>Ref 8.5     | et 9.59          | dB          | PNO: Fast<br>FGain:Low        | #Att              | en: 10 dB            |          | Avg Hold             | 8/100           | Mkr1               | 628 kHz<br>97 dBm   | Auto Tuno                             |
| -1-      |               |  | 0.0                     |                  |             |                               |                   |                      |          |                      |                 |                    |   | Center Free<br>15.075000 MH           |
| -13      |               | -  |                         | -                | -           |                               | -                 |                      |          |                      |                 |                    |   | Start Free                            |
| -31      |               |  |                         |                  |             |                               |                   |                      |          |                      |                 |                    |   | 150.000 kH                            |
| -31      |               |  |                         |                  |             |                               |                   |                      |          |                      |                 |                    |   | Stop Free<br>30.000000 MH             |
| -61      |               | j.   |                         |                  |             |                               |                   |                      |          |                      |                 |                    |   | CF Step<br>2.985000 MH<br>Auto Mar    |
| -61      | 14            | by have  | M                       |                  |             |                               |                   |                      |          |                      |                 |                    |   | Freq Offse<br>0 H                     |
| -61      | .4            | -  | Manay                   | WYCH             | West Amazia | ap for successfully           | and the second    | w/m/ultim            | hereiten | ahahahan na ka       | -querypealabre  | + with the service | har we have been a  |                                       |
| #R       | tes E         | 150 KH<br>3W 10  | 1z                      |                  | 1           |                               | 3W 30 K           |                      |          |                      | Sweep 3         | Stop 3<br>68.3 ms  | 0.00 MHz<br>(1001 pts)  |                                       |
| 1 10     | lient S       | _  | Analyze                 | P210             | 41          | 1                             | _                 | SENSE                | NT .     |                      | AL 1621 81 1711 | DC Co              |   |                                       |
| Ce       | ente          | r Fre  | q 13.0                  | 1500             |             | GHz<br>PNO: Fast<br>FGain:Low | Trig              | Free Ru<br>en: 40 dB | n        | Avg Type<br>Avg Hold | : RMS<br>4/100  | TRA                | M Dec 06, 2018<br>CE 1 2 3 4 5 6<br>PE M MANAMA<br>ET A A A A A A | Frequency                             |
| 10       | dB/d          | liv F  | Ref Offs<br>Ref 30.     | et 7.98<br>00 dE |             | rGamicow                      |                   |                      |          | 10 M                 | м               | kr2 25.            | 974 GHz<br>57 dBm   | Auto Tuni                             |
| 20       | 5 B.          |  | -                       |                  |             |                               |                   |                      |          |                      |                 |                    |   | Center Free<br>13.015000000 GH        |
| 10       |               | ¢¹   |                         |                  |             |                               |                   |                      |          |                      |                 |                    |   | Start Free<br>30.000000 MH            |
| -10      | 00<br>0.0     |  |                         |                  |             |                               |                   |                      |          |                      |                 |                    | -1 3,00 dbm   | Stop Free                             |
| -20      | o.a           | -  | _                       | -                |             |                               | _                 |                      |          |                      |                 |                    | 2.  | 26.000000000 GH                       |
| -30      |               |  | -                       |                  |             |                               |                   |                      | -        | www.g.ww             | vermone         | unna               | and the second  | CF Step<br>2.597000000 GH<br>Auto Mar |
|          | ~             | and the second sec | - La                    |                  |             | - marine                      | - Altrin - Altrin |                      |          |                      |                 |                    |   | Freq Offse<br>0 H                     |
| -50      |               |  |                         |                  |             |                               |                   |                      |          |                      |                 |                    |   |                                       |
| -60      | 2.0           |  |                         |                  |             | 1.00                          |                   |                      |          |                      |                 |                    | 1.000   |                                       |

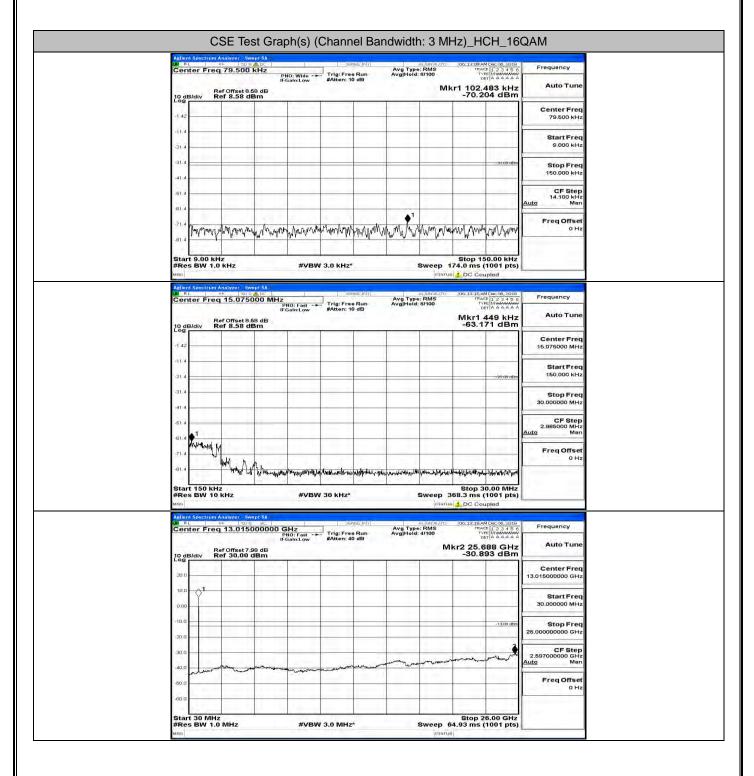
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADTE-S70

Report No.: LCS181130007AEG



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Report No.: LCS181130007AEG



| BI BI            | Freq 79.5                                | 20 9 A DC  |  | SENSE   | a INIT  | au<br>vg Type: R                 | MS                   | 05:19:30.AM                | Dec 06, 2018   | Frequency                              |
|------------------|--|--|--|---|---|----------------------------------|----------------------|----------------------------|--|--|
| 10 dB/di         | Ref Offs                                 |  | PNO: Wide -+<br>IFGain:Low   | Trig: Free F<br>#Atten: 22 d  | iB Av   | g Hold: 9/                       |                      | Akr1 9.0                   | 00 kHz   | Auto Tune                              |
| -1.42            | 1 A 11 A                                 |  |  |   |   |                                  |                      |                            |  | Center Freq<br>79.500 kHz              |
| -11.4            |  |  |  |   |   |                                  |                      |                            |  | Start Freq<br>9.000 kHz                |
| -31.4            |  |  |  |   |   |                                  |                      |                            | -39:00 dDm   | Stop Freq<br>150.000 kHz               |
| -61.4            | -  |  |  |   | _   |                                  |                      |                            |  | CF Step<br>14.100 kHz<br>Auto Man      |
| -71.4            | Wand                                     | ann an the second s | Mahan in   | Ma A L  |   | 0                                |                      |                            |  | Freq Offset<br>0 Hz                    |
| Start 9.         | .00 kHz                                  | 1.0.4  | 1000   | S.Z.SET   | ton MARIAN  |                                  |                      | Stop 15                    | 0.00 kHz   |  |
| мяо              | ectrum Analyze                           | Swept SA   | #VBW   | 3.0 kHz*  |   | Sv                               | STATUS               | 4.0 ms (<br>DC Cou         | pled   |  |
| LW RL            | RF                                       | TENRADE  | Z<br>PNO: Fast - ►<br>IFGain:Low   | Trig: Free F<br>#Atten: 10 d  | Run A<br>IB   | ati<br>vg Type: R<br>gjHold: 8/  | 100                  |                            | 123456<br>MMMMMM<br>AAAAAA   | Frequency                              |
| 10 dB/di         | Ref Offs<br>Ref 8.5                      | et 8.58 dB<br>8 dBm  | 1  | _   |   |                                  | M                    | kr1 2.74<br>-62.75         | 47 MHz<br>56 dBm   | Auto Tune                              |
| -1.42            |  |  |  |   |   |                                  |                      |                            |  | Center Freq<br>15.075000 MHz           |
| -11.4            |  |  |  |   |   |                                  |                      |                            | +29-80 dBm   | Start Freq<br>150.000 kHz              |
| -31.4            |  |  |  |   |   |                                  |                      |                            |  | Stop Freq<br>30.000000 MHz             |
| -51 4            |  |  |  |   |   |                                  |                      |                            | _  | CF Step<br>2.985000 MHz<br>Auto Man    |
| -61.4<br>-71.4 y | 400 Walter                               | 1 m.   |  |   |   |                                  |                      |                            |  | Freq Offset<br>0 Hz                    |
| -81.4<br>Start 1 |  | he recently between a  | and the second second  | ner and the second s | HUMAN AND AND AND AND AND AND AND AND AND A   | nnnan malad                      | hartwraped           |                            | Mentenneter<br>D.00 MHz  |  |
| #Res B           | W 10 KHz                                 |  | #VBW   | 30 kHz*   |   | Sv                               |                      | 58.3 ms (<br>DC Cou        | 1001 pts)  |  |
| LW RL            | RF<br>RF<br>Freq 13.0                    | 15000000   | GHz<br>PNO: Fast -+<br>IFGain:Low  | CONTRACT DO NOT   | an A  | aLi<br>vg Type: R<br>vg Hold: 4/ | GNAUTO<br>RMS<br>100 | 06:19:39 AM<br>TRAC<br>TVP | Dec 06, 2018<br>1 2 3 4 5 6<br>M M M M M M M M M M M M M M M M M M M | Frequency                              |
|                  | Ref Offs<br>Ref 30                       | et 7.98 dB<br>.00 dBm  | IFGain:Low   | #Atten: 40 d  |   |                                  |                      | r2 25.6                    |  | Auto Tune                              |
| 20.0             |  |  |  |   |   |                                  |                      |                            |  | Center Freq<br>13.015000000 GHz        |
| 0.00             | ,<br>                                    |  |  |   |   |                                  |                      |                            |  | Start Freq<br>30.000000 MHz            |
| -10.0            |  |  |  |   |   |                                  |                      | _                          | -13,00 dbin  | Stop Freq<br>26.00000000 GHz           |
| 20.0             | 1. |  |  |   |   |                                  |                      | a normania                 | munt   | CF Step<br>2.597000000 GHz<br>Auto Man |
| -20.0            |  | 1.1.1.1  | and the second s |   | and the second se |                                  |                      |                            |  |  |
|                  | an market and the                        |  | and the second   | والمراجع والمعاولة والمعاركة  | and the second  | ~~~                              | - Quart              |                            |  | Freq Offset<br>0 Hz                    |

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| Agi                               | lent Spect         | rum Anal     | yzer - Swe            | pt SA      |                                  | -                      | neculated     |                       | ni lezi ni mer     | Inersene -           | 4 Dec 06, 2018   | U.   |
|-----------------------------------|--------------------|--------------|-----------------------|------------|----------------------------------|------------------------|---------------|-----------------------|--------------------|----------------------|--|--|
| C                                 | enter F            | req 7        | 9.500                 | Hz         | PNO: Wide -+<br>FGain:Low        | Trig: Fre              | e Run         | Avg Type<br>Avg Hold: | : RMS<br>8/100     | TRAI<br>TRAI         | E 1 2 3 4 5 6<br>E MMMMMMM<br>ET A A A A A A                       | Frequency  |
| 19                                | dB/div             | Ref C<br>Ref | ffset 8.5<br>8.58 dE  |            | FGain:Low                        | #Atten: 1              | 0 88          |                       | MI                 | r1 139.              | 707 kHz<br>65 dBm  | Auto Tune  |
| 4                                 | C 10 **            |              |                       | 11         | -                                |                        |               |                       |                    |                      |  | Center Freq<br>79.500 kHz  |
| 49                                | 4                  | -            |                       | -          |                                  |                        |               |                       |                    |                      | _  | Start Freq   |
| -21                               |                    |              |                       |            |                                  |                        |               |                       |                    |                      |  | 9.000 kHz  |
| -31                               |                    |              |                       |            |                                  |                        |               |                       |                    |                      | -39:00 dDm   | Stop Freq<br>150.000 kHz   |
| -61                               | 1.1                | _            | _                     |            |                                  |                        |               |                       | _                  |                      |  | CF Step<br>14.100 kHz  |
| -61                               |                    |              | _                     |            |                                  |                        |               |                       | _                  |                      |  | <u>Auto</u> Man  |
| .71                               |                    | han u hal    | how pan               | AA         | applature                        | Marcula                | mm            | coller he             | which your 1       | hall and             | with marth   | Freq Offset<br>0 Hz  |
| -61                               | 1.22               |              | -Jr-v                 | when high  | Alabaratio                       | while the strength     | 1 + 1 my      | Nound Phyl            | udu vy hey         |                      |  |  |
| St<br>#F                          | art 9.00<br>Res BW | 1.0 kHz      | łz                    |            | #VBV                             | V 3.0 KHZ              |               |                       |                    | Stop 18<br>74.0 ms ( | 0.00 kHz<br>1001 pts)  |  |
| 2,344                             | lent Spect         | RE           | 50.97                 | DC         |                                  | 58                     | NSE:INT       |                       | N IGNUN ITO        |                      | 100  | -  |
| C                                 | enter F            | req 1        | 5.0750                | 00 MHz     | PNO: Fast →<br>FGaln:Low         | Trig: Fre<br>#Atten: 1 | e Run<br>0 dB | Avg Type<br>Avg Hold: |                    |                      | M Dec 06, 2018<br>TE 1 2 3 4 5 6<br>TE M MANANAN<br>TE A A A A A A | Frequency  |
| 18                                | dB/div             | Ref C        | ffset 8.5<br>8.58 dE  | 9 dB<br>Sm |                                  |                        | -             |                       | N                  | /kr1 3.0<br>-62.2    | 16 MHz<br>69 dBm   | Auto Tune  |
| ÷.                                | 42                 | -            |                       |            |                                  |                        |               |                       | _                  |                      |  | Center Freq<br>15.075000 MHz   |
| -13                               | 4                  |              |                       |            |                                  |                        |               |                       | -                  |                      |  | Start Freq   |
| -21                               |                    |              |                       |            |                                  |                        |               |                       |                    |                      | →29-80-dBm   | 150.000 kHz  |
| -31                               |                    |              |                       |            |                                  |                        |               |                       |                    |                      |  | Stop Freq<br>30.000000 MHz   |
| -61                               | . a                |              | _                     |            |                                  |                        |               |                       | _                  |                      |  | CF Step<br>2.985000 MHz  |
| -61                               | Mart               | Photo        | 1                     |            |                                  |                        | -             |                       | -                  |                      |  | Auto Man<br>Freq Offset  |
| -71                               | 4                  |              | huburnate             | Lus 1      |                                  |                        |               | 1.5                   |                    |                      |  | 0 Hz   |
|                                   | art 150            | 1115         |                       | hourself.  | ng the many to be the            | nh-n-mhairealthi       | ****          | 41141 - MAN - MAN     | nja-19674729479    |                      | 0.00 MHz   |  |
| #F                                | tes BW             | 10 KH        | z                     |            | #VBV                             | V 30 kHz*              |               |                       |                    | 68.3 ms              | 1001 pts)  |  |
| Agi                               | lent Spect         | RE           | 250.9                 | AL         | 2H-                              | se                     | NSE:IN1       | Ave Tur-              |                    | 06:14:12 A           | M Dec 06, 2018   | Frequency  |
|                                   |                    | req 1        | 3.0150                | -0         | GHZ<br>PNO: Fast -+<br>FGain:Low | Trig: Fre<br>#Atten: 4 | e Run<br>0 dB | Avg Type<br>Avg Hold: |                    |                      |  | Auto Tune  |
| C                                 | enter F            |              |                       | a de       |                                  |                        |               |                       | 141                | MIZ 20.0             | 53 dBm   |  |
| C                                 | dB/div             | Ref C<br>Ref | 17set 7.9<br>30.00 d  | Bm         | 1                                | -                      |               |                       |                    | -30.8                |  | I DESCRIPTION OF A CONTRACT OF   |
| C                                 | dB/div             | Ref C<br>Ref | offset 7.9<br>30.00 d | Bm         |                                  | -                      |               |                       | _                  | -30.8                |  | Center Freq<br>13.015000000 GHz  |
| 10<br>20                          |                    | Ref          | 0ffset 7.9<br>30.00 d | Bm         |                                  |                        |               |                       |                    | -30.8                |  | 13.015000000 GHz<br>Start Freq   |
| 20<br>20                          |                    | Ref          | offset 7.9<br>30.00 d | Bm         |                                  |                        |               |                       |                    | -30.8                |  | 13.015000000 GHz<br>Start Freq<br>30.000000 MHz  |
| 20<br>20<br>10<br>-10             |                    | Ref          | offset 7.9<br>30.00 d | Bm         |                                  |                        |               |                       |                    | -30.8                | -13.00 dEvn  | 13.015000000 GHz<br>Start Freq   |
| 20<br>20<br>10<br>-10             |                    | Ref          | offset 7.9            | Bm         |                                  |                        |               |                       |                    | -30.8                |  | 13.015000000 GH2<br>Start Freq<br>30.000000 MH2<br>26.00000000 GH2<br>CF Step<br>2.59700000 GH2    |
| 200<br>200<br>110<br>-110<br>-210 |                    | Ref          | offset 7.9<br>30.00 d | Bm         |                                  |                        |               |                       |                    | -30.8                |  | 13.015000000 GHz<br>Start Freq<br>30.000000 MHz<br>26.000000000 GHz<br>2.597000000 GHz<br>Auto Man |
| 20<br>20<br>-10<br>-10<br>-20     |                    | Ref          | 1975et 7.9<br>30.00 d | Bm         |                                  |                        |               |                       | wand the second of | -30.8                |  | 13.015000000 GH2<br>Start Freq<br>30.000000 MH2<br>26.00000000 GH2<br>CF Step<br>2.59700000 GH2    |

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| Aglient Spectrum Analyzer Swep<br>W RL 95 20 9 M<br>Center Freq 79.500 k  | ADC   | SERVER: INIT  | al (GNAUTO<br>g Type: RMS<br>  Hold: 8/100   | 06:14:40 AM D                               | x 06, 2018<br>2 3 4 5 6 | Frequency                       |
|---|---|---|--|---|-------------------------|---------------------------------|
| Ref Offset 8.58   | PNO: Wide This<br>IFGain:Low #At  | g:FreeRun Avg<br>ten:22 dB  |  | Vikr1 9.14<br>-63.202                       | 1 kHz                   | Auto Tune                       |
| 10 dB/div Ref 8.58 dBi  |   |   |  |   |                         | Center Freq<br>79.500 kHz       |
| -(1.4   |   |   |  |   |                         | Start Freq<br>9.000 kHz         |
| -31.4   |   |   |  |   | -33.00 dDm              | Stop Freq<br>150.000 kHz        |
| -41-4   |   |   |  |   |                         | CF Step<br>14.100 kHz           |
| -71.4 Muhyman   |   |   |  |   |                         | Auto Man<br>Freq Offset<br>0 Hz |
| -81.4   | www.low.www.www.www.  | Mount When when   | manyapparan  | uniter and                                  | m                       | 0 Hz                            |
| Start 9.00 kHz<br>#Res BW 1.0 kHz   | #VBW 3.0  |   | Sweep 1  | Stop 150.<br>74.0 ms (10                    | 01 pts)                 |                                 |
| Addent Spectrum Analyzer Swep<br>WRL WF 50.9 /h<br>Center Freq 15.07500   | DC L  | senase:Init<br>Av<br>g: Free Run Avg  | al GNAUTO<br>g Type: RMS<br> Hold: 8/100   | D5:14:45.AM D                               | 23456<br>AAAAA          | Frequency                       |
| 10 dB/div Ref Offset 8.58 dBr   | IFGain:Low #At  | ten: 10 dB  |  | oer/4<br>Ikr1 3.404<br>-61.081              | 1 MHz                   | Auto Tune                       |
| -1.42   |   |   |  |   | -                       | Center Freq<br>15.075000 MHz    |
| -11.4   |   |   |  |   |                         | Start Freq<br>150.000 kHz       |
| -31.4   |   |   |  |   |                         | Stop Freq<br>30.000000 MHz      |
| -61.4   |   |   |  | -   | _                       | CF Step<br>2.985000 MHz         |
| -51.4<br>-71.4  |   |   |  |   |                         | Auto Man<br>Freq Offset         |
| -81.4   | in appreciation of the second price of the second   | nyermethouriteringlightering  | for the state of the second second   | seconde-speciality                          | mpanhahant              | 0 Hz                            |
| Start 150 kHz<br>#Res BW 10 kHz   | #VBW 301  |   | Sweep 3  | Stop 30.0<br>68.3 ms (10                    | 00 MHz<br>01 pts)       |                                 |
| Aglient Spectrum Analyzer Swep<br>Will RL PF 2000<br>Center Freq 13.01500 | 00000 GHz   | sense:Init<br>g:Free Run Avg  | ALIGNAUTO<br>g Type: RMS<br> Hold: 4/100   | D5:14:49 AM D<br>TRACE 1<br>TYPE N<br>DET 4 | ac 06, 2018             | Frequency                       |
| Ref Offset 7.98<br>10 dB/div Ref 30.00 dB                                 | In Galiticow and  | ten: 40 dB  |  | cr2 25.68<br>-30.648                        | B GHz                   | Auto Tune                       |
| 20.0  |   | -   | -  |   |                         | Center Freq<br>13.015000000 GHz |
| 10.0 <b>1</b><br>0.00   |   |   |  |   |                         | Start Freq<br>30.000000 MHz     |
| -10.0   |   | _   | _  |   | -1 3,00 dbm             | Stop Freq<br>26.00000000 GHz    |
| -30.0   |   |   |  | and a second second                         | And a                   | CF Step<br>2.597000000 GHz      |
| -40.0<br>-50.0  | and and for a second and a second | and the construction of the second | a la seconda de la | 1   |                         | Auto Man<br>Freq Offset         |
| -60.0   |   |   |  |   |                         | 0 Hz                            |
| Start 30 MHz  |   | I I   |  | Stop 26.<br>4.93 ms (10                     |                         |                                 |

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| Agila  | ent Spe  | etrum A | nalyzer - S | wept SA        |                                  |                               | and the local       |                        |                                 |                   | Dec 06, 2018                |                                     |
|--------|----------|---------|-------------|----------------|----------------------------------|-------------------------------|---------------------|------------------------|---------------------------------|-------------------|-----------------------------|-------------------------------------|
| Ce     | nter     | Freq    | 79.50       | kHz            | PNO: Wide -                      | Trig: Fre                     | e Run               | Avg Type:<br>Avg Hold: | : RMS<br>8/100                  | TRAC<br>TYP       | 123456<br>MWMMMM<br>TAAAAAA | Frequency                           |
| 10 9   | dB/div   | Re      | f Offset    | 9.69 dB<br>dBm | IFGain:Low                       | #Atten: *                     | 10 dB               |                        | Mk                              |                   | 36 kHz<br>30 dBm            | Auto Tune                           |
| 13     | 111      |         | ***         |                | -                                |                               |                     |                        |                                 |                   | 1                           | Center Fred                         |
| -1.4.  | 2        |         |             |                |                                  |                               |                     |                        |                                 | -                 | 0.00                        | 79.500 kHz                          |
| -11-   | 4        |         | 10.0        |                |                                  |                               |                     |                        |                                 | 6 A 1             |                             | Start Fred                          |
| -21-   | 4        |         |             |                |                                  |                               |                     |                        |                                 | -                 |                             | 9.000 kHz                           |
| -31    | 4        | _       |             |                | -                                | -                             |                     | -                      |                                 |                   | -39:00 dt¥n                 | Stop Free<br>150.000 kHz            |
| -41-   | 4        |         | 1           |                |                                  |                               |                     |                        |                                 |                   |                             |                                     |
| -61    | 4        | -       | -           |                | -                                |                               | -                   |                        |                                 |                   |                             | CF Step<br>14.100 kHz<br>Auto Mar   |
| -61.   | 4        |         |             |                |                                  | -                             |                     |                        |                                 | -                 | 1                           |                                     |
| -71-   | 4 WILL   | Antar   | where       |                | 1.1.1                            |                               | n n A               | . ALL T                | M.                              | A                 | 1 n 1                       | Freq Offset<br>0 Ha                 |
| -61.   | 4        | hud     | W. William  | and Abryton    | monorphand                       | the state of the state of the | W Mar Mar           | Amakat Ada             | Lund What is                    | MMMMY             | whether                     |                                     |
| Sta    | urt 9.0  | 00 KH   | z           | -              |                                  | in our                        |                     |                        |                                 | Stop 15           | 0.00 kHz                    |                                     |
| #R     | es Bl    | N 1.0   | KHZ         |                | #VB                              | W 3.0 KHz                     | -                   |                        | Sweep 17                        | DC Cou            |                             |                                     |
| 1.30/  | RL       | 1       | nalyzer S   | 9 ADC          |                                  | 19                            | PUSE:INT            |                        | AL IGN AUTO                     | 06:13:51 AM       | Dec 06.2019                 |                                     |
| Ce     | nter     | Freq    | 15.07       | 5000 MH        | PNO: Fast -<br>IFGain:Low        |                               |                     | Avg Type:<br>Avg Hold: | 8/100                           | TRAC<br>TYP<br>DE | 123456<br>MMMMMMM<br>AAAAAA | Frequency                           |
| 10     | dB/div   | Re      | f Offset    | 9.69 dB<br>dBm | ir Gam:Low                       | Pricent.                      | o di j              |                        | M                               | kr1 2.7           | 17 MHz<br>51 dBm            | Auto Tune                           |
| -1.43  | 111      | 1       |             |                | -                                |                               |                     |                        | -                               | -                 |                             | Center Fred                         |
| - C.y. |          |         |             |                |                                  |                               |                     |                        |                                 |                   |                             | 15.075000 MH:                       |
| -11.3  |          |         | 11.1        |                |                                  |                               |                     | 1                      |                                 | 11.1              | L.S.                        | Start Fred<br>150.000 kHz           |
| -21 -  |          |         |             |                |                                  |                               |                     |                        |                                 |                   |                             |                                     |
| -31    | 4        |         | 11.0        |                |                                  |                               |                     |                        |                                 | -                 |                             | Stop Free<br>30.000000 MHz          |
| -41-   | 4        |         | 11.7        |                |                                  |                               |                     |                        | -                               |                   |                             |                                     |
| -51    | 4        |         |             |                |                                  |                               |                     |                        |                                 |                   |                             | CF Step<br>2.985000 MHa<br>Auto Mar |
| -61    | 4        | A. An   | 6           |                |                                  |                               |                     |                        |                                 |                   |                             |                                     |
| -71.4  | 4 WHY HA | n. We A | MALL N      | 4.             | 1.000                            |                               |                     |                        |                                 |                   | 1.000                       | Freq Offset<br>0 Ha                 |
| -61.   | 4        |         | - Wely      | r Whanash      | Mannahak                         | and all the tractor           | no la supply and my | april when the star    | your and the second states      | alifer makey with | ntry Managatan              |                                     |
| Sta    | art 15   | 0 KHZ   |             |                | Whenthe<br>#VB                   | W 20 LUN                      |                     |                        |                                 | Stop 3            | 0.00 MHz                    |                                     |
| MSQ    | es bu    | 101     | KH2         |                | #VB                              | W 30 kHz'                     |                     |                        |                                 | DC Cou            |                             |                                     |
| 1.30   | RL       | 19      | nalyzer - S | Q AL           |                                  | 58                            | NSE INT             | 4                      | ALIGNALITO                      | 06:19:55 AN       | Dec 06, 2018                | President                           |
| Ce     | nter     | Freq    | 13.01       | 5000000        | GHz<br>PNO: Fast -<br>IFGain:Low | Trig: Fre                     | e Run<br>IO dB      | Avg Type:<br>Avg Hold: | 4/100                           | TRAC              | 123456<br>MMMMMM<br>TAAAAAA | Frequency                           |
| 10 0   | dB/div   | Re      | f Offset    | .98 dB         | all and the second               |                               |                     |                        | MH                              | -30.3             | 40 GHz<br>92 dBm            | Auto Tune                           |
| 1.3    | 1.0      |         |             |                |                                  |                               |                     |                        |                                 | -                 | -                           | Center Fred                         |
| 20     | 0        | 1       |             |                |                                  |                               |                     |                        |                                 |                   |                             | 13.015000000 GH:                    |
| 103    | ⁰→       |         | 11.         |                |                                  |                               |                     |                        |                                 |                   |                             | Start Fred                          |
| 0.0    | 0        |         | 11          |                |                                  |                               |                     |                        |                                 |                   |                             | 30.000000 MHz                       |
| - 10.0 | ά        | -       | _           | -              | _                                | -                             | -                   |                        |                                 |                   | -13,00 dbm                  | Stop Fred                           |
| (20.0  | a        | -       |             |                |                                  | -                             |                     |                        | _                               |                   |                             | 26.00000000 GH2                     |
| -30.0  | a —      | -       | -           |                |                                  |                               | -                   |                        |                                 | a diatrat         | ran land and                | CF Step<br>2.59700000 GH            |
| -40.0  |          | maria   | mayan       | manu           |                                  | -                             | m                   | and many               | ملمور می می مارند می مارند می ا |                   | /                           | <u>Auto</u> Mar                     |
| -50.0  | 0        | -       |             |                |                                  |                               |                     |                        |                                 |                   |                             | Freq Offset<br>0 Hi                 |
| -60.0  | 0        |         | -           |                | _                                |                               |                     |                        |                                 | _                 |                             | JH                                  |
|        | 1.1      |         |             |                | 11 January                       |                               |                     |                        | 4                               | - C               | A                           |                                     |
|        | 1 20     | MHz     |             | -              |                                  | -                             |                     |                        |                                 | Ston 3            | 5.00 GHz                    |                                     |

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| CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH   |                                     |
|--|-------------------------------------|
| RL PF 50.9 ADC SEPRENT ALEXAND DOLLAR AND DOLLAR A   | 2 3 4 5 6<br>A A A A A              |
| PHO:Wildo → Trig:Free Run AvgiHoid: 8/100 rvetiA<br>IFGainLow #Atten: 10 dB Mkr1 133.78<br>10 dB/div Ref 8.58 dBm -70.548  |                                     |
| 142  | Center Freq<br>79.500 kHz           |
|  | Start Freq<br>9.000 kHz             |
| -314   | -37:00 dbm Stop Freq<br>150.000 kHz |
|  | CF Step<br>14,100 kHz               |
| .81.4  | Auto Man<br>Freq Offset             |
| and My have may have been and a marked and a second and the second | MMM oHz                             |
| Start 9.00 kHz Stop 150.0<br>#Res BW 1.0 kHz #VBW 3.0 kHz* Sweep 174.0 ms (10)   | 00 kHz<br>01 pts)                   |
| <br>anno orranue 🔔 DC Couple<br>Adliani Spectrum Analyzer : swept SA   |                                     |
| M RL 9F 2094000<br>Center Freq 15.075000 MHz<br>PN0: Foxt → Trig: Free Run Avg[Heid: 8/100 Tref]<br>F650-Int.ow #Atten: 10 40 Avg[Heid: 8/100 Tref] A  | AAAAA                               |
| Ref Offset 9.68 dB Mkr1 2.687<br>10 dB/div Ref 8.58 dBm -62.768  | MHz Auto Tune                       |
| -142   | Center Freq<br>15.075000 MHz        |
| -314   | -20-00-00m 150.000 kHz              |
| -314   | Stop Freq<br>30.000000 MHz          |
| -51.4  | CF Step<br>2.985000 MHz             |
| 61.4 million 11  | Auto Man                            |
| 21 4   | 0 Hz                                |
| 11.4<br>71.4<br>31.4<br>Start 150 kHz<br>#Rees BW 10 kHz<br>#VBW 30 kHz <sup>4</sup><br>Sweep 368.3 ms (10)  | 0 MHz<br>01 pts)                    |
| <br>Aglent Spectrum Analyzer - Swept SA  | id                                  |
| RL PF 50 Q AC SENSE INT ALCONAUTO 06:14:28 AM Da   | C06, 2018<br>23456<br>Frequency     |
| 10 dB/div Ref 30,00 dBm - 30.360 - 30.360 - 30.360   | GHz Auto Tune                       |
| 20.0   | Center Freq<br>13.015000000 GHz     |
|  | Start Freq<br>30.000000 MHz         |
|  | -13.00 dtam Stop Freq               |
|  | 26.000000000 GHz                    |
| 400 and and a second a s | 4 2.597000000 GHz<br>Auto Man       |
| 900  | Freq Offset                         |
| Start 30 MHz Stop 25.0   | 0 GHz                               |
| #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 64.93 ms (10   | 01 pts)                             |

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| 1,364 1   | RL                | rum Analyze         | 50 9 A DC -           | i                          | 9                            | ense:init]         |                       | ALIGNAUTO  | 06:14:58 AN          | Dec 06, 2018                                 | Frequency                           |
|-----------|-------------------|---------------------|-----------------------|----------------------------|------------------------------|--------------------|-----------------------|--|----------------------|--|-------------------------------------|
| Cei       | nter F            | req 79.5            | 500 kHz               | PNO: Wide -+<br>IFGain:Low | Trig: Fre<br>#Atten: "       | e Run<br>10 dB     | Avg Type<br>Avg Hold: | 8/100  | TYP                  | 123456<br>MMMMMMM<br>TAAAAAA                 | 10000                               |
| 10 1      | dB/div            | Ref Offs<br>Ref 8.5 | et 9.59 dB            |                            |                              |                    |                       | м  | kr1 12.6<br>-71.5    | 66 kHz<br>1 dBm                              | Auto Tune                           |
| -1.43     | 10.2              |                     |                       |                            |                              |                    |                       |  |                      |  | Center Freq                         |
| -112      | 10.00             |                     |                       |                            |                              |                    |                       |  | -                    |  | 79.500 kHz                          |
| -21 -     | 11.00             |                     |                       |                            |                              |                    |                       | -  |                      |  | Start Freq<br>9.000 kHz             |
| -31.2     | 4                 |                     | - 41 11               |                            |                              |                    |                       | 1 2  |                      | -39:00 dlam                                  | Stop Freq                           |
| -41.2     | 4                 |                     |                       | _                          | -                            | _                  |                       | -  |                      |  | 150.000 kHz                         |
| -61.4     | 4                 |                     |                       |                            |                              |                    |                       |  |                      |  | CF Step<br>14.100 kHz               |
| -61.4     | 4                 | -                   | _                     | -                          |                              | -                  |                       |  | _                    |  | <u>Auto</u> Man                     |
| -71 -     | 4 Win             | Maill 1 at          | my parm               | ann unnulw                 | Marin                        | 1 marine Ma        | 1.6. 0.0.0            | 1 Mr. m.A.   | w Mh.m. w            | WWWWWWWWWWW                                  | Freq Offset<br>0 Hz                 |
| -61.4     | 4                 | . mand hult         | r py                  | I. A                       | 1 mar ma                     | M. www.thle.d      | and the second        | an. At t   | A. a the             | - A WAY A                                    | 1                                   |
| Sta<br>#R | art 9.00<br>es BW | kHz<br>1.0 kHz      | 1                     | #VBV                       | V 3.0 KHz                    | *                  | -                     | Sweep 17   | Stop 15<br>74.0 ms ( | 0.00 kHz<br>1001 pts)                        |                                     |
| MSG       |                   |                     |                       | 0.812.6                    |                              | 5                  |                       |  | DC Cou               |  | -                                   |
| 2 M/ F    | RL                | RF                  | C Swept SA            | Hz                         | 3                            | envae (Ini y       | Avg Type<br>Avg Hold: | ALIGNAUTO  | 06:15:01 AN          | Dec 06, 2018                                 | Frequency                           |
| 20        |                   |                     |                       | PNO: Fast -+<br>IFGain:Low | #Atten: "                    | ie Run<br>10 dB    | Avg Hold:             |  |                      | 123456<br>MAAAAA<br>17 MHz                   | Auto Tune                           |
| 100       | dB/div            | Ref Offs            | et 8.68 dB<br>58 dBm  |                            | -                            |                    |                       |  | -64.4                | 78 dBm                                       | 1                                   |
| -1.45     | 2                 | -                   |                       | -                          | -                            |                    |                       | _  | _                    | _  | Center Freq<br>15.075000 MHz        |
| 415       | 4                 | _                   |                       | -                          | -                            |                    |                       | _  | _                    |  | Start Freq                          |
| -21 -     | à                 | _                   | _                     | _                          |                              | -                  |                       |  | -                    |  | 150.000 kHz                         |
| -31.2     | 4                 |                     |                       | -                          |                              |                    | 1                     |  |                      |  | Stop Fred                           |
| -41.2     | 4                 | _                   |                       | _                          | -                            |                    |                       | -  |                      |  | 30.000000 MHz                       |
| -61.4     | 4                 |                     |                       | -                          | -                            |                    |                       |  |                      |  | CF Step<br>2.985000 MHz<br>Auto Man |
| -61.4     | 4 . Mart          | www.hl              |                       | -                          |                              |                    |                       | -  |                      | -  |                                     |
| -71.4     | 4                 | TOT WILling         | Auto                  | -                          |                              |                    |                       |  | 1.1                  |  | Freq Offset<br>0 Hz                 |
| -61.4     | 4                 |                     | in of the port of     | un anna ann an the         | and introductions            | varianteritetation | white white           | philmindulumphi  | Numerican            | hippingaanaha                                |                                     |
| Sta<br>#R | es BW             | kHz<br>10 kHz       |                       |                            | V 30 kHz                     |                    |                       | Sweep 3  | Stop 3               | 0.00 MHz                                     |                                     |
| MSG       |                   |                     |                       | 212                        |                              |                    |                       |  | LDC Cou              |  |                                     |
| 8 M/ F    | RL                | req 13.0            | C Swept SA            | 0 GHz                      | a Cooperation                | envse:1017]        | Avg Type<br>Avg Hold: | ALIGNAUTO  | 06:15:04 AN          | Dec 06, 2018<br>1 2 3 4 5 6<br>M M M M M M M | Frequency                           |
|           |                   |                     |                       | PNO: Fast<br>IFGain:Low    | #Atten: 4                    | 40 dB              | Avg Hold:             |  |                      | 62 GHz                                       | Auto Tune                           |
| 186       | dB/div            | Ref Offs            | et 7.98 dB<br>.00 dBm | -                          | 1                            |                    |                       |  | -30.5                | 16 dBm                                       |                                     |
| 20.0      | 0 <u> </u>        |                     |                       | -                          |                              |                    |                       | _  | _                    |  | Center Freq<br>13.015000000 GHz     |
| 10.3      | 0 01              |                     | _                     | -                          |                              |                    |                       | _  | -                    |  | Start Fred                          |
| 0.0       | 0                 | _                   |                       | -                          |                              |                    |                       |  |                      |  | 30.000000 MHz                       |
| -10.0     | ά                 | _                   |                       | _                          | -                            |                    |                       |  |                      | -1.3,00 dbin                                 | Stop Fred                           |
| -20.0     | a                 |                     | _                     |                            |                              |                    |                       |  |                      |  | 26.00000000 GHz                     |
|           | a                 | -                   | -                     |                            |                              |                    |                       |  |                      | mor man                                      | CF Step<br>2.597000000 GHz          |
| -30.0     |                   | 1.10.0              | manne                 | and and and the second     | and many many many many many |                    | and the second        | An and the second s |                      |  | <u>Auto</u> Man                     |
| -30.0     |                   | merperter           |                       |                            |                              |                    |                       |  |                      |  |                                     |
| 1 C.**    | ° maran           | - en haller (       |                       |                            |                              |                    |                       |  |                      |  | Freq Offset<br>0 Hz                 |
| -40.0     | 0<br>0<br>0       |                     |                       |                            |                              |                    |                       |  |                      |  |                                     |

|              |                 |                  | LCH_C   |                                |
|--------------|-----------------|------------------|---|--------------------------------|
| RMS          | AS DO           | 06:15:17A        | AM Dec 06, 2018<br>ACE 1 2 3 4 5 6<br>YPE MWAAAAAA<br>DET A A A A A A | Frequency                      |
|              |                 |                  | .564 kHz<br>566 dBm   | Auto Tun                       |
|              |                 | -                |   | Center Fre                     |
|              |                 |                  |   | 79.500 kH                      |
|              |                 |                  |   | Start Free<br>9.000 kH         |
|              | _               |                  | -39:00 df3m   | Stop Free<br>150.000 kH        |
|              |                 |                  |   | CF Ster                        |
|              |                 |                  | ()  | 14.100 kH<br>Auto Ma           |
| 4.4          | 1.1             |                  | 10 <sup>44</sup> , мрули <sub>ик</sub><br>50.00 кнz                   | Freq Offse<br>0 H              |
| Pr Win       | May             | htheyed          | And the property of   |                                |
| veep         | eep 17          | 74.0 ms          | (1001 pts)  |                                |
|              |                 | DC Co            |   |                                |
| RMS<br>100   | AS<br>00        | 06:15:227<br>TEA | AM Dec 06, 2018<br>ACE 1 2 3 4 5 6<br>YPE MWAAAAAA<br>DET A A A A A A | Frequency                      |
|              |                 | lkr1 1.8         | 881 MHz<br>355 dBm  | Auto Tun                       |
|              |                 |                  |   | Center Free<br>15.075000 MH    |
|              |                 | _                | -   | Start Free                     |
|              |                 |                  |   | 150.000 kH                     |
|              |                 |                  |   | Stop Free<br>30.000000 MH      |
|              |                 |                  |   | CF Ster                        |
|              |                 |                  | 1   | 2.985000 MH<br>Auto Ma         |
| _            |                 |                  |   | Freq Offse                     |
| ult-Jahrahra | -Julyahral-IA   | Manufaration     | antificition of the state   |                                |
| 10.4         | 10.4            | Stop :           | 30.00 MHz   |                                |
|              |                 | 68.3 ms          | (1001 pts)<br>oupled  |                                |
|              | NAUTO           | 06:15:25A        | AM Dec 06, 2019   | Frequency                      |
| 100 N        |                 |                  |   | 100 A 10                       |
| IV           | IVIK            | -30.7            | 740 GHz<br>746 dBm  |                                |
|              |                 | -                |   | Center Free<br>13.015000000 GH |
| _            |                 | -                |   | Start Free                     |
|              |                 |                  |   | 30.000000 MH                   |
|              |                 |                  | -13,00 dbm  | Stop Free<br>26.00000000 GH    |
|              | -               |                  | 2   | CF Ste                         |
|              | _               |                  | manna   | 2.597000000 GH<br>Auto Mar     |
| -Marampa     | -               | and an other     |   |                                |
|              | -<br>Listente - |                  | -   | Freq Offse                     |
|              | 'unamps to      |                  |   | Freq Offse<br>0 H              |

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| 1.364             | RL              |                | Analyzer<br>RF 2<br>79.50 | D 9 A DC         |                      | 1                         | 1.8                   | ense:M/                      | Avg Typ<br>Avg Hol   | al ignauto   | 06:15:523<br>TRA | M Dec 06, 2018   | Frequency  |
|-------------------|-----------------|----------------|---------------------------|------------------|----------------------|---------------------------|-----------------------|------------------------------|--|--|------------------|--|--|
|                   |                 | R              |                           | 8.68 dB<br>dBm   |                      | :Wide<br>in:Low           | #Atten:               | ee Run<br>22 dB              | AvgHol   |  | Mkr1 9.          | 987 kHz  | Auto Tune  |
| 10,<br>-1.4       | dB/div          | R              | er 8.58                   | dBm              |                      |                           |                       |                              |  |  | -02.3            | 30 dBm   | Čenter Freq<br>79.500 kHz  |
| -11               |                 |                |                           |                  |                      |                           |                       |                              |  |  |                  |  | Start Freq   |
| -21               |                 |                |                           | 1                |                      |                           |                       |                              |  |  |                  | -37.00 dfsm  | 9.000 kHz  |
| -41               |                 | _              | -                         |                  |                      |                           | -                     |                              |  |  |                  |  | Stop Freq<br>150.000 kHz   |
| -61               | .1              | 1.1.1          |                           | 1                |                      |                           |                       |                              |  |  |                  |  | CF Step<br>14.100 kHz<br>Auto Man                                    |
| -61<br>-71        | Ame             | Hard           | man                       | w.Hollow         | Lang                 |                           |                       |                              |  |  |                  |  | Freq Offset  |
| -61               | 4               |                |                           | and handly       | with                 | Maximily                  | manan                 | Ny Constantin                | renandration   | Mary   | m Alway          | mannalylan   |  |
| Sta<br>#R         | art 9.1         | 00 KH<br>W 1.0 | z                         |                  |                      |                           | V 3.0 KHz             |                              | -  | Sweep  | Stop 1           | 50.00 kHz<br>(1001 pts)                                |  |
| 0.004             | RI              |                | Analyzer                  | DOM DO           |                      | i                         | 1 5                   | ense:Init/                   |  | ALIGNAUTO  | 105:15:58.6      | M Dec 05, 2018   | Frequency  |
| Ce                | nter            |                |                           | 5000 M           | IFGa                 | l: Fast -+<br>In:Low      | Trig: Fri<br>#Atten:  | e Run<br>10 dB               | Avg Typ<br>Avg Hol   | : 8/100  |                  |  | 205.7.2.00   |
| 13                |                 | R              | ef 8.58                   | 8.59 dB<br>dBm   | -                    | -                         | -                     | -                            | 1  | -  | -61.5            | 52 dBm   | Center Freq  |
| 14                |                 |                |                           |                  |                      |                           |                       |                              |  |  |                  |  | 15.075000 MHz  |
| -21               |                 |                | -                         |                  | _                    |                           |                       | -                            |  |  |                  |  | Start Freq<br>150.000 kHz  |
| -31.              | 4               |                |                           |                  |                      |                           |                       |                              |  |  |                  |  | Stop Freq<br>30.000000 MHz   |
| -61               | 4               |                |                           |                  |                      |                           |                       |                              |  |  |                  |  | CF Step<br>2.985000 MHz  |
| -61-              |                 | when           | Margaria                  | havyayaha        | 1.1                  |                           |                       |                              |  |  |                  |  | Auto Man<br>Freq Offset  |
| -61               | 4               |                | 1 Itele                   | an of a fair of  | while                | munharwith                | Mar Harris            | cherotationnalisma           | Vialan Julia Analyill  | ditud nations  | Antonyopentine   | whenny   | 0 Hz   |
| Sta<br>#R         | art 15<br>es Bi | 50 KH<br>W 10  | z<br>KHz                  |                  |                      |                           | V 30 KHZ              |                              | -  |  | Stop :           | 30.00 MHz<br>(1001 pts)                                |  |
| MSO               | 1               |                | Analyzer -                | Swept SA         | _                    |                           |                       | -                            |  |  | B DC Co          |  |  |
| 1.314             | RL              | 1 1 1          | RF. E                     | 50000            | 00 GH<br>PNO<br>IFGa | Z<br>): Fast -+<br>In:Low | - Trig: Fr<br>#Atten: | enseiniri<br>ee Run<br>40 dB | Avg Typ<br>Avg Hold  | al (GN AUTO<br>e: RMS<br>1: 4/100  | 06:16:012        | M Dec 06, 2018<br>CE 1 2 3 4 5 6<br>PE M M M A A A A A | Frequency  |
| 10                | dB/div          | R              | ef Offset<br>ef 30.0      | 7.98 dB<br>0 dBm |                      |                           | Neero, Mi             |                              |  | M  | kr2 25.          | 688 GHz<br>592 dBm                                     | Auto Tune  |
| 230               |                 |                | -                         | 1                |                      |                           |                       |                              |  |  |                  |  | Center Freq<br>13.015000000 GHz                                      |
| 10                | Ĩ               | ,1             |                           |                  |                      |                           |                       |                              |  |  |                  |  | Start Freq<br>30.000000 MHz  |
|                   |                 |                |                           |                  |                      |                           |                       |                              |  |  |                  | -13,00 dbin  | Stop Freq  |
| -10               |                 |                |                           |                  | _                    | -                         |                       | -                            |  | -  |                  | 2  | 26.00000000 GHz  |
| -10               |                 |                |                           |                  |                      |                           |                       | -                            | da la companya da companya |  |                  |  |  |
| -10               | a —             |                | -                         | mund             |                      | -1.Mar                    | hay                   | mercan                       | -  | - Anna   | enedition        | m  | CF Step<br>2.597000000 GHz<br><u>Auto</u> Man                        |
| -10<br>-20<br>-30 | a<br>a          | ****           | and the second second     | minina           |                      | -um                       | -                     | ewec                         | and a second | , and the second | und data         | -met   | CF Step<br>2.597000000 GHz<br><u>Auto</u> Man<br>Freq Offset<br>0 Hz |

| 1.3K/ F    | RL                      | rum Analyzs<br>RF | DO 9 AD                | 5-1          |                      | S                    | Envice : Ini Y  |  |              | 06:16:24 A           | 4 Dec 06, 2018   | Erection                        |
|------------|-------------------------|-------------------|------------------------|--------------|----------------------|----------------------|-----------------|--|--------------|----------------------|--|---------------------------------|
| Cei        | nter F                  | req 79.           | 500 kH                 | Z<br>PI      | NO: Wide<br>Gain:Low | Trig: Fri<br>#Atten: | e Run<br>10 dB  | Avg Type<br>Avg Hold   | 9/100        | TY                   | E 123456<br>E MMMMMM<br>ET A A A A A A                               | Frequency                       |
| 10 -       | Bidiy                   | Ref Off           | set 8.68 d<br>58 dBm   |              | oomizon.             |                      |                 |  |              |                      | 564 kHz<br>01 dBm  |                                 |
| 13         | dB/div                  |                   |                        | -            |                      |                      |                 |  |              |                      |  | Center Fred                     |
| -1.43      | 2                       |                   |                        |              |                      |                      |                 |  |              |                      |  | 79.500 kHz                      |
| -11.2      | 4                       |                   |                        |              |                      |                      |                 |  |              |                      |  | Start Fred                      |
| -21 -      | 4                       |                   |                        |              |                      |                      |                 |  |              |                      |  | 9.000 kHz                       |
| -31.4      | 4                       |                   |                        | -            |                      |                      |                 |  |              |                      | -33.00 dBm   | Stop Fred<br>150.000 kHz        |
| -41.8      | 4                       |                   |                        |              |                      |                      |                 |  |              |                      |  | CF Step                         |
| -61 /      | 9                       |                   |                        |              |                      |                      |                 |  |              |                      |  | 14.100 kHa<br>Auto Mar          |
| -61.4      | 4                       |                   |                        |              |                      |                      |                 |  |              |                      |  | Freq Offse                      |
| -71.4      | MM                      | the at            |                        |              | 1.2.22               | An                   | 1.              | mar stan.  |              |                      | A  | 0 H:                            |
| -81.3      | 4                       | Kanyawa           | MANN                   | MAN          | AMAR MAR             | of why               | w WWW           | My and lid   | wwwww        | Marin Warener        |  |                                 |
| Sta<br>#Re | es BW                   | kHz<br>1.0 kHz    |                        | -            | #VB                  | N 3.0 KHz            |                 | 8  | Sweep        | Stop 18              | i0.00 kHz<br>1001 pts)   |                                 |
| MSQ        | -                       |                   |                        |              |                      |                      |                 | _  | STATU        | s 🚺 DC Co            | upled  |                                 |
| 1.3K/ F    | RL                      | req 15.           | 50 9 AD                | C 1          | 1                    | 1 9                  | ende:Iniy       | Avg Type<br>Avg Hold   | ALIGNAUTO    | 06:16:29 A           | M Dec 06, 2018<br>E 1 2 3 4 5 6<br>E M M M M M M M<br>ST A A A A A A | Frequency                       |
|            | inc) i                  |                   |                        | IF,          | NO: Fast<br>Gain:Low | #Atten:              | te Run<br>10 dB | AvgHold  |              |                      |  |                                 |
| 10 0       | B/div                   | Ref Offs          | set 8.68 d<br>58 dBm   | в            |                      |                      |                 |  |              | -63.2                | 86 MHz<br>46 dBm   | Auto Fulk                       |
| -1.45      | 12.11                   |                   | - 1111                 |              | -                    |                      |                 |  |              |                      | (11) (1)<br>(1)  | Center Fred<br>15.075000 MHz    |
| 41.2       | 1.1                     |                   |                        | -            |                      |                      |                 |  |              | -                    |  | 10.070000 1011                  |
| -31 -      | 4                       |                   |                        | _            |                      |                      |                 |  |              |                      | +29-80-dBm   | Start Fred<br>150.000 kHz       |
| -31.2      | 4                       |                   |                        |              |                      |                      |                 |  |              |                      |  |                                 |
| -41.2      |                         |                   |                        |              |                      |                      |                 |  |              |                      |  | Stop Free<br>30.000000 MHz      |
| -61.4      | 4                       |                   |                        |              | 1                    |                      |                 |  | 1            |                      |  | CF Step                         |
| -61.4      | 4                       |                   | 111                    |              | 1                    |                      |                 |  |              |                      |  | 2.985000 MH<br>Auto Mar         |
| .71.4      | hubber                  | W. Automas        | hicken a               | l            |                      |                      |                 |  |              | 1                    |  | Freq Offse                      |
| -61.4      | a vinter i              |                   |                        | methow       | Mahmarina            | A hadrowing          |                 | tanta a fara |              |                      |  | 0 Ha                            |
|            | 1.1                     | 1.                | 444                    | 221.         |                      | a an a'r dellffe     | Aurona          | survey every and a second  | humananahari | un hurs all abrivant | Madia Incontra   |                                 |
| #Re        | es BW                   | KHZ<br>10 KHZ     |                        |              | #VB                  | N 30 kHz             |                 |  | Sweep :      | 368.3 ms (           | 1001 pts)  |                                 |
| MSO        | and Connects            | and Another       | Contract C             |              | _                    | _                    | _               |  | STATU        | s 🛓 DC Co            | pled   |                                 |
| 1 10 1     | RI                      | req 13.           | PR 0 4                 | 000 0        | Hz<br>NO: Fast       | Trimer               |                 | Avg Type<br>Avg Hold   | ALIGNAUTO    | 06:16:32 A           | 4 Dec 06, 2018<br>1 2 3 4 5 6<br>PE MUMANANA<br>ST A A A A A A       | Frequency                       |
|            |                         |                   |                        | - (15)       | NO: Fast<br>Gain:Low | #Atten:              | 40 dB           | Avgiriou.  |              |                      | 14 GHz   |                                 |
| 10 c       | B/div                   | Ref 30            | set 7.98 d<br>0.00 dBr | n            | -                    | -                    |                 | -  |              | -30.6                | 17 dBm   |                                 |
| 240 (      | 0                       |                   | 1.11                   | -            |                      |                      |                 |  |              | -                    | _  | Center Fred<br>13.015000000 GHz |
| 10.0       | ₀ <b>\</b> <sup>1</sup> | -                 |                        | -            |                      |                      | _               | -  |              |                      | _  |                                 |
| 0.0        | 0                       | _                 |                        | _            |                      |                      |                 |  |              |                      |  | Start Fred<br>30.000000 MHz     |
| -10.0      | 6                       |                   | - 14                   | _            |                      |                      |                 | _  |              |                      | -13,00 dDin  | Stop Fred                       |
| -20.0      |                         |                   |                        |              |                      |                      |                 |  |              |                      |  | 26.00000000 GHz                 |
| -30.0      | o                       | -                 | _                      | _            |                      |                      |                 |  |              |                      | 3  | CF Step<br>2.597000000 GH       |
| -40.0      |                         | -                 | main                   | And Mandress |                      | The company of       | -               | - marken have  |              | approximeter and     | man  | Auto Mar                        |
| -50.0      | when                    |                   |                        | 4.00         | - Andrews            |                      |                 |  |              |                      | 11-11-1  | Freq Offse                      |
|            | 12.00                   |                   |                        |              |                      |                      |                 |  |              |                      |  | 0 H:                            |
| -60 (      | 0                       |                   |                        |              |                      |                      |                 |  |              |                      |  |                                 |
| -60.0      | urt 30 M                |                   | = 1   d                | 2.73         | 1.000                |                      |                 |  | 4            |                      | 6.00 GHz   |                                 |

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| 6.X | RL           | Spectro<br>ter Fre | RE      | 50 \$     | 2 ALDC        |                  | 1  | 1                   | servise (INI)    | A            | vg Type:<br>vg Hold: | RMS            | 06:15:32.A     | M Dec 06, 2018   | Frequency                          |
|-----|--------------|--------------------|---------|-----------|---------------|------------------|--|---------------------|------------------|--------------|----------------------|----------------|----------------|--|------------------------------------|
|     |              |                    |         | ffset 8.  |               | PNO: V<br>IFGain | Wide   | #Atten:             | 10 dB            | A            | vg Hold:             |                | lkr1 15.       | 909 kHz  | Auto Tune                          |
| 2   | o dB         | /div               | Ref     | 8.58 d    | Bm            | 1                | -  |                     |                  |              |                      | -              | -74.1          | 27 dBm   | Center Free                        |
| 1   | 1.42         | 1                  |         |           |               |                  |  |                     |                  |              |                      | -              |                |  | 79.500 KH                          |
|     | 21.4         |                    |         |           |               |                  |  |                     |                  |              |                      |                |                |  | Start Free<br>9.000 kH             |
| 5   | 31.4         |                    |         |           |               | _                |  |                     |                  | _            |                      |                |                | -39:00 dfwn  | Stop Free<br>150.000 kH            |
|     | 41 4<br>61 4 |                    |         |           |               |                  |  |                     |                  |              |                      |                |                |  | CF Step<br>14.100 kH               |
| ġ   | 61.4         |                    | -       |           |               | _                |  |                     | _                | -            |                      | -              |                |  | <u>Auto</u> Mar                    |
|     | 71.4<br>01.4 | milly              | with fr | MA        | An who        | a.N.             | alon M   | W. Walth            | Ast not          | Marth        | me Au al             | MARKIN         | have at        | MAMAAA   | Freq Offse<br>0 H                  |
|     |              | 9.00 I<br>BW 1     | KHZ     | 1 1 10    | ( WWW         |                  |  | 2000                |                  | WAL V        | block with a         | an Jan Mard    | Stop 1         | 50.00 KHz  |                                    |
|     | Res          | BW 1               | .0 KH   | lz        |               |                  | #VBW   | / 3.0 KH            | z*               | _            | 5                    |                | 74.0 ms        | (1001 pts)   |                                    |
| 124 | RL           | Spectro<br>er Fre  | RE      | 50 4      | rept SA       | Iz               | 1  | l a l               | sente: Ini (     | A            | vg Type:<br>vg Hold: |                | 06:15:38 A     | M Dec 06, 2018<br>CE 1 2 3 4 5 6<br>PE M M M M M M M<br>ET A A A A A A | Frequency                          |
|     |              |                    | Ref C   | ffset 8.  | 58 dB         | PNO: I<br>IFGain | Fast   | Trig: Fi<br>#Atten: | ree Run<br>10 dB | A            | vg Hold:             |                | Akr1 3.*       | 05 MHz   | Auto Tune                          |
|     | 1 42         | - ary              |         |           |               |                  |  |                     |                  |              |                      | -              |                |  | Center Free<br>15.075000 MH        |
|     | 11.4         |                    | -       | -         |               |                  | -  |                     | -                |              |                      | -              |                |  | Start Free                         |
|     | 21.4         |                    | -       | _         | -             |                  | _  |                     |                  |              | _                    | -              |                | +29-80-dBm   | 150.000 kH                         |
|     | 31.4<br>41.4 |                    |         |           |               |                  |  |                     |                  |              |                      |                |                |  | Stop Free<br>30.000000 MH          |
| 1   | 61.4         | -                  |         | -         | -             |                  |  |                     |                  |              |                      | -              |                |  | CF Step<br>2.985000 MH<br>Auto Mar |
|     | 61.4<br>71.4 | har                | y.A.    | L. G.G.   | 1             |                  |  |                     |                  |              |                      |                |                |  | FreqOffse                          |
|     | 61.4         | 1-4-4              | 14/20   | aprovale! | Der William   | any any          | phinese the  | WANNALA             | 16 March 18      | chologener   |                      | -han Malderson | . the here was | መታቸው።<br>10.00 MHz   | он                                 |
| s   | Start        | 150 k              | Hz      |           |               |                  | ( and the set  |                     | 4.04.04.01.1     | Concell (40) | n Koonin ata         | den ber ihnde  | Stop 3         | 0.00 MHz   |                                    |
|     | Res          | BW 1               | 0 KH    | z         |               |                  | #VBN   | / 30 kHz            | *                |              | \$                   | weep 3         | 68.3 ms        | (1001 pts)   |                                    |
| 2.3 | RL           | Spectro<br>er Fre  | 197 Fr. | 50 \$     | 2 AL<br>00000 | 0 GHz            | 1  |                     | sense:Iniv       | A            | vg Type:<br>vg Hold: | RMS            | 06:15:41 A     | M Dec 06, 2018<br>CE 1 2 3 4 5 6<br>PE MMMMMM<br>ET A A A A A A        | Frequency                          |
|     |              |                    | Ref C   | ffset 7.  | 98 dB         | PNO: IFGain      | Fast -   | #Atten:             | 40 dB            | A.           | väluoia:             |                | kr2 25.0       | 67 A A A A A A A A A A A A A A A A A A A                               |                                    |
|     | 20.0         | July               |         | 50.00     |               | -                |  |                     |                  |              |                      |                |                |  | Center Free<br>13.015000000 GH     |
|     | 10.0         | $\Diamond^1$       |         | -         |               |                  |  |                     |                  |              |                      | _              |                |  | -                                  |
|     | 0.00         | Ĩ                  | -       |           |               | -                | _  |                     |                  |              |                      |                |                |  | Start Free<br>30.000000 MH         |
|     | 10.0         | -                  | -       | _         | -             | -                | _  |                     |                  |              |                      | -              |                | -1 3,00 dbin   | Stop Free                          |
|     | 20.0         | -                  | -       | -         |               |                  |  |                     | _                |              | _                    | -              |                | 2  | 26.00000000 GH                     |
|     | 40.0         |                    |         |           | a altra       |                  | 1.   |                     |                  |              | an form              | Junior         | when an amount | montenante   | 2.597000000 GH<br>Auto Mar         |
|     | 50.0         | and and a second   |         | -         |               | -M. Carrow       | • و دو ها مان رو مان و مان |                     |                  |              |                      |                |                | -  | Freq Offse                         |
|     | 60.0         |                    | -       |           | -             |                  | _  |                     | _                |              |                      |                |                |  |                                    |
|     |              |                    |         |           |               |                  |  |                     |                  |              |                      |                |                |  |                                    |

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| B.W/ F  | nt Spectri       | um Analyzer                              | D 9 ANDC   |  | 1 98   | and section of the |                             |  | Ins in the A       | Dec 06, 2019   | 1                             |
|---|------------------|--|--|--|--|--------------------|-----------------------------|--|--------------------|--|-------------------------------|
| Ce  | nter Fr          | eq 79.50                                 |  | PNO: Wide -+<br>FGain:Low              | Trig: Fre<br>#Atten: 1   | e Run              | Avg Type<br>Avg Hold:       | 9/100                                    | TRAC               | E 123456<br>E Minimum<br>T A A A A A A                       | Frequency                     |
| 10 0  | B/div            | Ref Offset<br>Ref 8.58                   |  | Gametow                                | Price in 1   | o ub               |                             |  | Mkr1 9.8<br>-72.1  |  |                               |
| Log   | 11.7             | 1  | 1011   |  |  |                    |                             |  |                    | -  | Center Fred                   |
| -11-2   | 4                |  |  |  |  |                    |                             |  |                    |  | 79.500 kHz                    |
| -31 -   | 4                |  |  |  |  |                    |                             |  |                    |  | Start Fred<br>9.000 kHz       |
| -31.4   | 4                | 1.                                       |  |  |  |                    |                             | 1  |                    | -39:00 dt¥n  | Stop Fred                     |
| -41.4   |                  |  |  |  | -  | -                  |                             | _  |                    |  | 150.000 kHz                   |
| -61 /   | 4                | _  |  | _                                      |  |                    |                             |  |                    |  | CF Step<br>14.100 kHz         |
| -61.4   | -                |  |  |  |  | -                  |                             |  |                    | -  | <u>Auto</u> Mar               |
| -71.4   | m                |  |  | d day                                  | 1.45   |                    |                             | 5. C.                                    | a                  |  | Freq Offset<br>0 Ha           |
| -61 /   | • • ¥            | that the                                 | Amountaran   | Merring & Control                      | An Wingu   | Manna              | A Andraw P                  | al with month                            | upper a pril       | whyphychus   |                               |
| Sta<br>#Re  | rt 9.00<br>es BW | kHz<br>1.0 kHz                           | 1  | #VBV                                   | V 3.0 KHz  | *                  |                             |  | 74.0 ms (          |  |                               |
| MSD   |                  |  |  |  |  |                    |                             |  | DC Cou             |  |                               |
| 1.304 1   | RL               | eq 15.07                                 | 5000 MH2   |  | The second s   | nuse inin          | Avg Type<br>Avg Hold:       | al IGN AUTO                              | 06:16:13AA<br>TRAC | Dec 06, 2018<br>E 1 2 3 4 5 6<br>E MMMMMM<br>T A A A A A A   | Frequency                     |
|   |                  |  | 1  | PNO: Fast -+<br>FGain:Low              | #Atten: 1  | io dB              | Avg Hold:                   |  | Akr1 3.1           | 35 MHz   | Auto Tune                     |
| 10 0  | B/div            | Ref Offset<br>Ref 8.58                   | dBm  |  |  | -                  |                             |  | -63.1              | 72 dBm   |                               |
| -1.43   | 2                | -  | -  |  |  |                    |                             |  |                    |  | Center Fred<br>15.075000 MHz  |
| -11.4   | 4                | -  |  |  |  | -                  |                             |  |                    |  | Start Fred                    |
| -31 -   | 4                | -  |  |  | -  | -                  |                             |  |                    |  | 150.000 kHz                   |
| -31.4   | 4                |  |  |  |  |                    |                             |  |                    |  | Stop Free<br>30.000000 MHz    |
| -41.2   | 4                | 1  |  |  |  |                    |                             |  |                    |  | CF Step                       |
| -61.4   | 4                | 1  |  |  |  |                    |                             |  |                    | 0.001  | 2.985000 MHa                  |
| -61.4   | Marth            | Manual                                   | www.hulnamhyd  |  |  |                    |                             |  |                    | 11-000   | FreqOffse                     |
| -81.4   | a<br>Lath a      | . 1.4. 55.44                             | when any we have the shift   | Walkstation                            | Advantation of the   |                    |                             |  | 12-22-12-1         | rhen di  | 0 Ha                          |
|   |                  |  | 4, 1   |  | . I. I couldkasts  |                    | carrier la vertre d'Arrente | an a |                    |  |                               |
| Start 150 kHz         Stop 30.00 MHz           #Res BW 10 kHz         #VBW 30 kHz*         Sweep 368.3 ms (1001 pts)           wirol <u>wirol</u> <u>wirol</u> Coupled  |                  |  |  |  |  |                    |                             |  |                    |  |                               |
| Agile   | nt Spectre       | um Analyzer                              | Swept SA   |  |  |                    |                             |  |                    |  | 1                             |
|   |                  | eq 13.01                                 | 5000000  | PNO: Fast                              | Trig: Fre  | e Run              | Avg Type<br>Avg Hold:       | : RMS<br>4/100                           | TRAC<br>TYPE<br>DE | 1 Dec 06, 2018<br>E 1 2 3 4 5 6<br>E MMMMMM<br>T A A A A A A | Frequency                     |
| if63iniLiw #Atten:40 dB 00100 AAtten:40 dB 0010 AAtten:40 AAtten: |                  |  |  |  |  |                    |                             |  | Auto Tune          |  |                               |
| 1.3   | 11.7             |  |  |  |  |                    |                             |  |                    | 1  | Center Fred                   |
| 20 (  |                  |  | 1.   |  |  |                    |                             |  |                    |  | 13.015000000 GH:              |
| 0.00  | Ϋ́               |  |  |  |  |                    |                             |  |                    |  | Start Free<br>30.000000 MHz   |
| -10.0   |                  |  |  |  |  | -                  |                             |  |                    |  |                               |
| -20.0   |                  |  |  |  |  |                    |                             |  |                    | -13,00 dtain   | Stop Fred<br>26.000000000 GHz |
|   |                  |  | -  | -                                      |  |                    |                             |  |                    | 2  | CF Step<br>2.59700000 GH      |
| -30.0   |                  | 1. | 1.633  | 1.00                                   |  | man me             | metre war                   | and and the                              | man                | and and and  | Auto Mar                      |
| -40.0   | Jun              | may have and                             | of any and a state of the state | manan                                  | all contraction of the local division of the |                    |                             |  |                    |  |                               |
| 100   | - Aller          | - and and and                            |  | - way and a second                     | *******  |                    |                             |  |                    |  | Freq Offset<br>0 Ha           |
| -40.0   |                  | - Martin Const                           |  | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |  |                    |                             |  |                    |  |                               |

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| Addent Spectrum Analyzer - Swept SA                        | SENSE INTO D   | 35:16:39 AM Dec 06, 2018  | Frequency                      |
|--|--|---|--------------------------------|
| Center Freq 79.500 kHz<br>PNO: Wide<br>IFGaint.ow          | Avg Type: RMS<br>Avg Type: RMS<br>Avg Hold: 8/100<br>Atten: 10 dB  | 10:10:30 AM Dec 06, 2018<br>TRACE 1 2 3 4 5 6<br>TYPE MWMMMM<br>DET A A A A A A   | 1.2.1.1.2.1.0.1                |
| Ref Offset 8.58 dB   | Mkr  | 1 11.961 kHz<br>-73.685 dBm   | Auto Tune                      |
| 142  |  |   | Center Freq<br>79.500 kHz      |
| 114  |  |   | 79.000 812                     |
| -31.4  |  |   | Start Freq<br>9.000 kHz        |
| -31.4  |  | -39:00 dism   | Stop Freq                      |
| -41.4  |  |   | 150.000 kHz                    |
| .61 Å  |  |   | CF Step<br>14.100 kHz          |
| -61.4  |  | Au  | <u>uto</u> Man                 |
| -71.4 1  |  |   | Freq Offset<br>0 Hz            |
| 101. 1 WWW. Anther Way of a war and a far of a far         | and and and and a subserver and and  | www.www.  |                                |
| Start 9.00 kHz<br>#Res BW 1.0 kHz #VBW                     | KH21 Swaar 121   | Stop 150.00 kHz<br>.0 ms (1001 pts)   |                                |
|  |  | DC Coupled  |                                |
| Adlent Spectrum Analyzer - Swept SA                        | SENSE:INT ALIGNAUTO D  | 36:16:45,AM Dec 06, 2018  | Frequency                      |
| Center Freq 15.075000 MHz<br>PNO: Fast -+<br>IFGain:Low    | Avg Type: RMS<br>rig: Free Run Avg Held: 8/100<br>Atten: 10 dB   | TRACE 1 2 3 4 5 6<br>TVPE MUMANANA<br>DET A A A A A A   | Auto Tune                      |
| Ref Offset 8.58 dB<br>10 dB/div Ref 8.58 dBm               | Mki  | r1 2.598 MHz<br>-64.272 dBm   | Auto Tune                      |
| 1.42   |  |   | Center Freq<br>15.075000 MHz   |
| -11.4  |  |   |                                |
| -31.4  |  |   | Start Freq<br>150.000 kHz      |
| -31.4  |  |   | Stop Freq                      |
| -41.4  |  |   | 30.000000 MHz                  |
| -51.4  |  |   | CF Step<br>2.985000 MHz        |
| -61.4  |  |   | <u>uto</u> Man                 |
| 71. 4 address land for the many of the product of the      |  |   | Freq Offset<br>0 Hz            |
| -61.4  | dillingua dan bartan ang salan prakta fagan salan gut  | And the second and the second s |                                |
| Start 150 kHz<br>#Res BW 10 kHz #VBW                       | Libration 200  | Stop 30.00 MHz<br>.3 ms (1001 pts)  |                                |
|  |  | DC Coupled  |                                |
| Agilent Spectrum Analyzer - Swept SA                       |  | 16:16:48.AM Dec 06, 2018  | Frequency                      |
| Center Freq 13.015000000 GHz<br>PN0: Fast -+<br>IFGaIn:Low | Avg Type: RMS<br>rig: Free Run Avg Hold: 4/100<br>Atten: 40 dB   | TRACE 1 2 3 4 5 6<br>TYPE MUMANY  | Auto Tune                      |
| Ref Offset 7.98 dB<br>10 dB/div Ref 30.00 dBm              |  | 2 25.636 GHz<br>-30.737 dBm   | rate , alle                    |
| 20.0   |  | 1   | Center Freq<br>3.015000000 GHz |
| 10.0 01  |  |   |                                |
| 0.00   |  |   | Start Freq<br>30.000000 MHz    |
| -10.0  |  | -1 3.00 sitem   | Stop Freq                      |
| -20.0  |  |   | 6.000000000 GHz                |
|  |  | 2   | CF Step                        |
| -30.0  |  | A 2   | 2.597000000 GHz                |
| -30.0  | man man  |   | 2.597000000 GHz<br>uto Man     |
|  | and the second s |   | 2.597000000 GHz                |
| .40.0  |  |   | Freq Offset                    |

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