Report No.: LCS181130005AEG

# Appendix D: Test Data for E-UTRA Band 7

# Product Name: LTE GSM/WCDMA Smartphone Trade Mark: DOOGEE Test Model: S80

### **Environmental Conditions**

| Temperature:       | 23.6 ° C    |
|--------------------|-------------|
| Relative Humidity: | 53.6%       |
| ATM Pressure:      | 100.0 kPa   |
| Test Engineer:     | WANGCHUANG  |
| Supervised by:     | Jayden Zhuo |

### **D.1 Conducted Output Power**

|            |         | Conducte | d Output Pov | ver Test Result (Channel Ban | dwidth: 5 MHz)      |         |
|------------|---------|----------|--------------|------------------------------|---------------------|---------|
| Modulation | Channel | RB Con   | figuration   | Average Power [dBm]          | Average Power [dBm] | Vardiat |
| Modulation | Channel | Size     | Offset       | QPSK                         | 16QAM               | Verdict |
|            |         | 1        | 0            | 23.87                        | 22.74               | PASS    |
|            |         | 1        | 12           | 24.31                        | 23.06               | PASS    |
|            |         | 1        | 24           | 23.78                        | 22.66               | PASS    |
|            | LCH     | 12       | 0            | 22.50                        | 21.62               | PASS    |
|            |         | 12       | 6            | 22.60                        | 21.71               | PASS    |
|            |         | 12       | 13           | 22.55                        | 21.65               | PASS    |
|            |         | 25       | 0            | 22.57                        | 21.54               | PASS    |
|            |         | 1        | 0            | 23.45                        | 22.40               | PASS    |
|            |         | 1        | 12           | 23.72                        | 22.71               | PASS    |
|            |         | 1        | 24           | 23.28                        | 22.21               | PASS    |
| QPSK /     | MCH     | 12       | 0            | 22.41                        | 21.49               | PASS    |
| 16QAM      |         | 12       | 6            | 22.45                        | 21.53               | PASS    |
|            |         | 12       | 13           | 22.38                        | 21.39               | PASS    |
|            |         | 25       | 0            | 22.48                        | 21.47               | PASS    |
|            |         | 1        | 0            | 22.96                        | 22.11               | PASS    |
|            |         | 1        | 12           | 23.45                        | 22.41               | PASS    |
|            |         | 1        | 24           | 22.92                        | 22.02               | PASS    |
|            | НСН     | 12       | 0            | 22.11                        | 21.18               | PASS    |
|            |         | 12       | 6            | 22.16                        | 21.21               | PASS    |
|            |         | 12       | 13           | 22.07                        | 21.15               | PASS    |
|            |         | 25       | 0            | 22.08                        | 21.19               | PASS    |

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|            |         | Conducted      | I Output Pow         | ver Test Result (Channel Band | lwidth: 10 MHz)              |         |
|------------|---------|----------------|----------------------|-------------------------------|------------------------------|---------|
| Modulation | Channel | RB Con<br>Size | figuration<br>Offset | Average Power [dBm]<br>QPSK   | Average Power [dBm]<br>16QAM | Verdict |
|            |         | 1              | 0                    | 23.52                         | 22.71                        | PASS    |
|            |         | 1              | 24                   | 23.62                         | 22.82                        | PASS    |
|            |         | 1              | 49                   | 23.34                         | 22.53                        | PASS    |
|            | LCH     | 25             | 0                    | 22.50                         | 21.45                        | PASS    |
|            |         | 25             | 12                   | 22.56                         | 21.50                        | PASS    |
|            |         | 25             | 25                   | 22.57                         | 21.51                        | PASS    |
|            |         | 50             | 0                    | 22.52                         | 21.47                        | PASS    |
|            |         | 1              | 0                    | 23.45                         | 22.73                        | PASS    |
|            |         | 1              | 24                   | 23.58                         | 22.85                        | PASS    |
|            |         | 1              | 49                   | 23.21                         | 22.42                        | PASS    |
| QPSK /     | МСН     | 25             | 0                    | 22.55                         | 21.54                        | PASS    |
| 16QAM      |         | 25             | 12                   | 22.50                         | 21.53                        | PASS    |
|            |         | 25             | 25                   | 22.41                         | 21.45                        | PASS    |
|            |         | 50             | 0                    | 22.50                         | 21.50                        | PASS    |
|            |         | 1              | 0                    | 23.21                         | 22.44                        | PASS    |
|            |         | 1              | 24                   | 23.31                         | 22.67                        | PASS    |
|            |         | 1              | 49                   | 23.02                         | 22.33                        | PASS    |
|            | НСН     | 25             | 0                    | 22.34                         | 21.35                        | PASS    |
|            |         | 25             | 12                   | 22.21                         | 21.19                        | PASS    |
|            |         | 25             | 25                   | 22.13                         | 21.11                        | PASS    |
|            |         | 50             | 0                    | 22.22                         | 21.24                        | PASS    |

|                 |         | Conducted | Output Pow | er Test Result (Channel Band | dwidth: 15 MHz)     |         |
|-----------------|---------|-----------|------------|------------------------------|---------------------|---------|
| Modulation      | Channel | RB Con    | figuration | Average Power [dBm]          | Average Power [dBm] | Verdict |
| wodulation      | Channel | Size      | Offset     | QPSK                         | 16QAM               | Verdict |
|                 |         | 1         | 0          | 23.45                        | 22.69               | PASS    |
|                 |         | 1         | 37         | 23.60                        | 22.78               | PASS    |
|                 |         | 1         | 74         | 23.17                        | 22.34               | PASS    |
|                 | LCH     | 37        | 0          | 22.51                        | 21.41               | PASS    |
|                 |         | 37        | 18         | 22.54                        | 21.47               | PASS    |
|                 |         | 37        | 38         | 22.52                        | 21.44               | PASS    |
|                 |         | 75        | 0          | 22.52                        | 21.42               | PASS    |
|                 |         | 1         | 0          | 23.43                        | 22.64               | PASS    |
|                 |         | 1         | 37         | 23.54                        | 22.83               | PASS    |
|                 |         | 1         | 74         | 23.06                        | 22.28               | PASS    |
| QPSK /<br>16QAM | МСН     | 37        | 0          | 22.56                        | 21.52               | PASS    |
| IOQAIVI         |         | 37        | 18         | 22.53                        | 21.48               | PASS    |
|                 |         | 37        | 38         | 22.35                        | 21.37               | PASS    |
|                 |         | 75        | 0          | 22.51                        | 21.47               | PASS    |
|                 |         | 1         | 0          | 23.22                        | 22.27               | PASS    |
|                 |         | 1         | 37         | 23.49                        | 22.58               | PASS    |
|                 |         | 1         | 74         | 22.96                        | 22.18               | PASS    |
|                 | НСН     | 37        | 0          | 22.46                        | 21.34               | PASS    |
|                 |         | 37        | 18         | 22.35                        | 21.31               | PASS    |
|                 |         | 37        | 38         | 22.16                        | 21.12               | PASS    |
|                 |         | 75        | 0          | 22.35                        | 21.23               | PASS    |

|            |         | Conducted | Output Pow | ver Test Result (Channel Band | lwidth: 20 MHz)     |         |
|------------|---------|-----------|------------|-------------------------------|---------------------|---------|
| Modulation | Channel |           | figuration | Average Power [dBm]<br>QPSK   | Average Power [dBm] | Verdict |
|            |         | Size      | Offset     |                               | 16QAM               | 5.00    |
|            |         | 1         | 0          | 23.51                         | 22.60               | PASS    |
|            |         | 1         | 49         | 23.66                         | 22.75               | PASS    |
|            |         | 1         | 99         | 23.24                         | 22.30               | PASS    |
|            | LCH     | 50        | 0          | 22.30                         | 21.21               | PASS    |
|            |         | 50        | 25         | 22.40                         | 21.34               | PASS    |
|            |         | 50        | 50         | 22.31                         | 21.24               | PASS    |
|            |         | 100       | 0          | 22.24                         | 21.21               | PASS    |
|            |         | 1         | 0          | 23.46                         | 22.60               | PASS    |
|            |         | 1         | 49         | 23.74                         | 22.88               | PASS    |
| QPSK /     |         | 1         | 99         | 23.13                         | 22.22               | PASS    |
| 16QAM      | MCH     | 50        | 0          | 22.55                         | 21.52               | PASS    |
| IOQAIN     |         | 50        | 25         | 22.51                         | 21.47               | PASS    |
|            |         | 50        | 50         | 22.32                         | 21.35               | PASS    |
|            |         | 100       | 0          | 22.42                         | 21.42               | PASS    |
|            |         | 1         | 0          | 23.09                         | 22.26               | PASS    |
|            |         | 1         | 49         | 23.52                         | 22.67               | PASS    |
|            |         | 1         | 99         | 22.94                         | 22.27               | PASS    |
|            | НСН     | 50        | 0          | 22.23                         | 21.25               | PASS    |
|            |         | 50        | 25         | 22.27                         | 21.27               | PASS    |
|            |         | 50        | 50         | 22.03                         | 21.06               | PASS    |
|            |         | 100       | 0          | 22.20                         | 21.11               | PASS    |

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

|            | Peak-to Average Ra | ntio Test Result (Channel | Bandwidth: 5 MHz) |         |
|------------|--------------------|---------------------------|-------------------|---------|
| Modulation | Channel            | Peak-to-Average Ratio     | Limit             | Verdict |
| wouldton   | Channel            | [dB]                      | [dB]              | Verdict |
|            | LCH                | 4.98                      | <13               | PASS    |
| QPSK       | MCH                | 5.38                      | <13               | PASS    |
|            | НСН                | 5.13                      | <13               | PASS    |
|            | LCH                | 5.83                      | <13               | PASS    |
| 16QAM      | MCH                | 6.2                       | <13               | PASS    |
|            | НСН                | 5.93                      | <13               | PASS    |

|            | Peak-to Average Ra | tio Test Result (Channel | Bandwidth: 10 MHz) |         |
|------------|--------------------|--------------------------|--------------------|---------|
| Modulation | Channel            | Peak-to-Average Ratio    | Limit              | Verdict |
| wodulation | Channel            | [dB]                     | [dB]               | Verdict |
|            | LCH                | 5.07                     | <13                | PASS    |
| QPSK       | MCH                | 5.43                     | <13                | PASS    |
|            | НСН                | 5.16                     | <13                | PASS    |
|            | LCH                | 5.85                     | <13                | PASS    |
| 16QAM      | MCH                | 6.15                     | <13                | PASS    |
|            | НСН                | 5.95                     | <13                | PASS    |

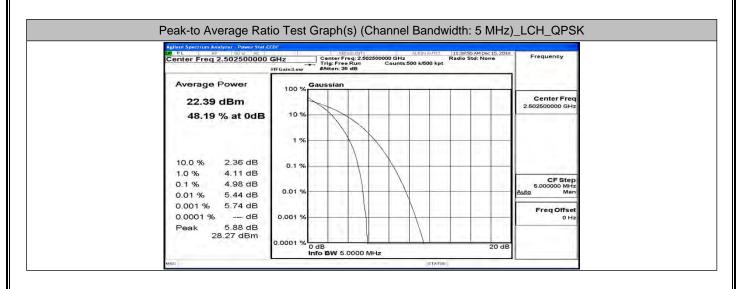
|            | Peak-to Average Ra | tio Test Result (Channel | Bandwidth: 15 MHz) |         |
|------------|--------------------|--------------------------|--------------------|---------|
| Modulation | Channel            | Peak-to-Average Ratio    | Limit              | Verdict |
| Modulation | Channel            | [dB]                     | [dB]               | verdici |
|            | LCH                | 4.97                     | <13                | PASS    |
| QPSK       | MCH                | 5.01                     | <13                | PASS    |
|            | НСН                | 4.98                     | <13                | PASS    |
|            | LCH                | 6.15                     | <13                | PASS    |
| 16QAM      | MCH                | 6.26                     | <13                | PASS    |
|            | НСН                | 6.17                     | <13                | PASS    |

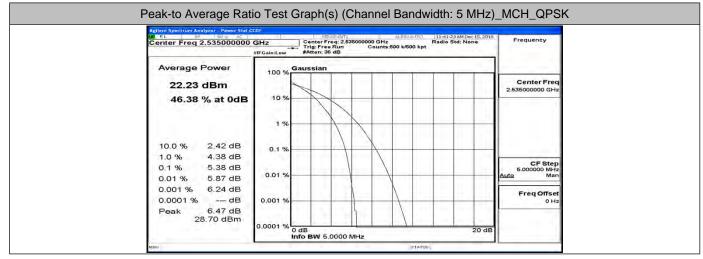
|            | Peak-to Average Ra | tio Test Result (Channel | Bandwidth: 20 MHz) |         |
|------------|--------------------|--------------------------|--------------------|---------|
| Modulation | Channel            | Peak-to-Average Ratio    | Limit              | Verdict |
| MODULATION | Ghanner            | [dB]                     | [dB]               | Verdict |
|            | LCH                | 5.72                     | <13                | PASS    |
| QPSK       | MCH                | 5.72                     | <13                | PASS    |
|            | HCH                | 5.78                     | <13                | PASS    |
|            | LCH                | 6.68                     | <13                | PASS    |
| 16QAM      | MCH                | 6.81                     | <13                | PASS    |
|            | НСН                | 6.67                     | <13                | PASS    |

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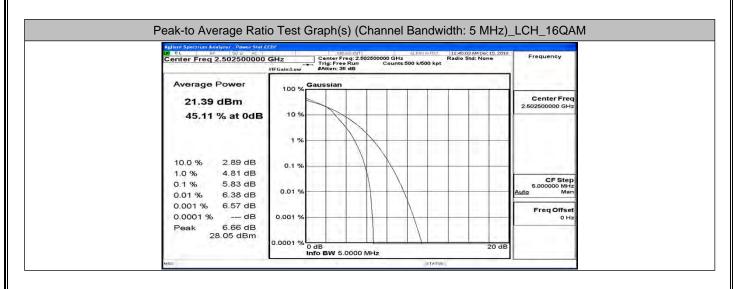


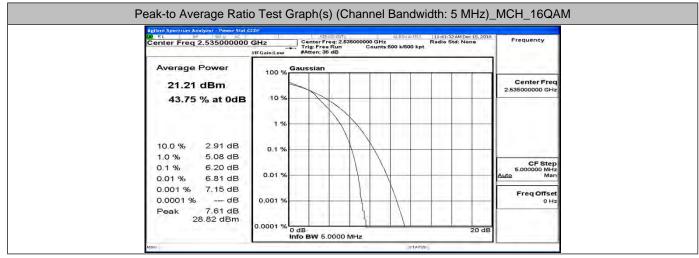
| RL RP 50 P AC                   | SENSE DUT ALIGN AUTO 11:42:54 | 4 AM Dec 15, 2018                          |
|---------------------------------|-------------------------------|--|
| Center Freq 2,56750000          |                               | td: None Frequency                         |
| Average Power                   | 100 % Gaussian                |  |
| 21.94 dBm                       |                               | Center Freq<br>2,567500000 GHz             |
| 46.95 % at 0dB                  |                               |  |
|                                 | 1 %                           |  |
| 10.0 % 2.41 dB<br>1.0 % 4.26 dB | 0.1 %                         |  |
| 0.1 % 5.13 dB<br>0.01 % 5.53 dB | 0.01 %                        | CF Step<br>5.000000 MHz<br><u>Auto</u> Man |
| 0.001 % 5.72 dB<br>0.0001 % dB  | 0,001 %                       | Freq Offset<br>0 Hz                        |
| Peak 5.89 dB                    |                               |  |

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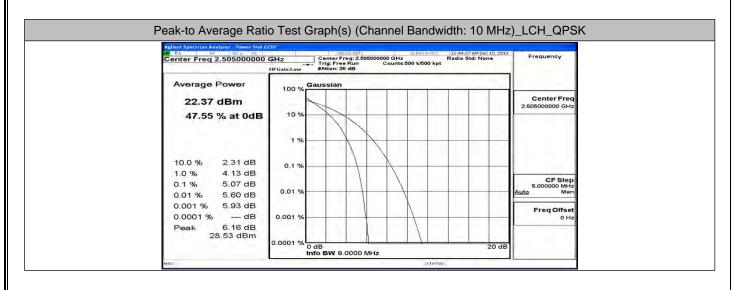


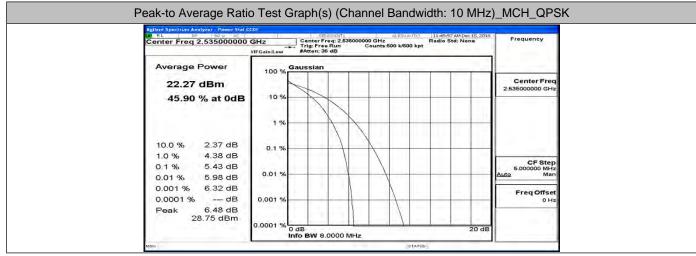
| CORL RP 50 P AC   |  |             | uency                       |
|---|--|-------------|-----------------------------|
| Center Freq 2.56750000  | 0 GHz Center Freq: 2,567500000 GHz<br>Trig: Free Run Counts:500 k/500<br>#Atten: 36 dB |             | uency                       |
| Average Power   | Causalan   |             |                             |
| 20.97 dBm<br>44.12 % at 0dE   | 100 % Gaussian   |             | nter Freq<br>00000 GHz      |
|   | 1 %  |             |                             |
| 10.0 % 2.92 dB  | 0.1 %  |             |                             |
| 1.0 %      4.94 dB        0.1 %      5.93 dB        0.01 %      6.39 dB | 0.01 %   | 5.0<br>Auto | CF Step<br>00000 MHz<br>Man |
| 0.001 % 6.63 dB<br>0.0001 % dB  | 0,001 %  | Fr          | eq Offset<br>0 Hz           |

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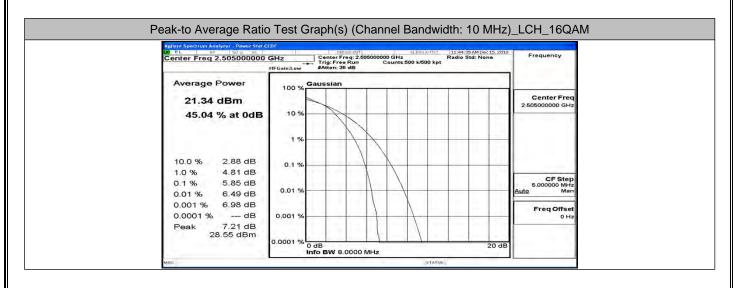


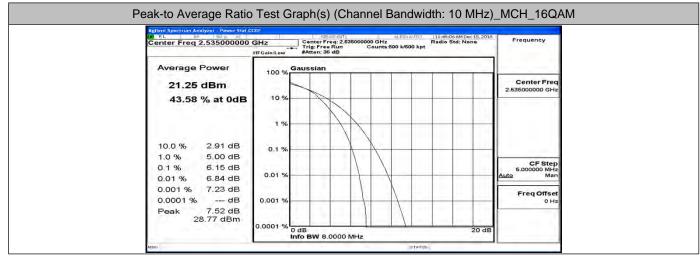
| Center Freq 2,56500000                           | Trig: Free Run Counts:500 k/500 kpt | Radio Std: None Frequen |
|--|-------------------------------------|-------------------------|
|  | #IFGain:Low #Atten: 36 dB           |                         |
| Average Power                                    | 100 % Gaussian                      |                         |
| 22.05 dBm<br>46.78 % at 0dB                      |                                     | Cente<br>2.5650000      |
| 40.76 % at 00B                                   |                                     |                         |
|  | 1 %                                 |                         |
| 10.0 % 2.37 dB                                   | 0.1 %                               |                         |
| 1.0 % 4.26 dB<br>0.1 % 5.16 dB<br>0.01 % 5.65 dB | 0.01 %                              | 5.0000<br>Auto          |
| 0.001 % 5.96 dB<br>0.0001 % dB                   | 0.001 %                             | Freq                    |
|  | 0.001 %                             |                         |

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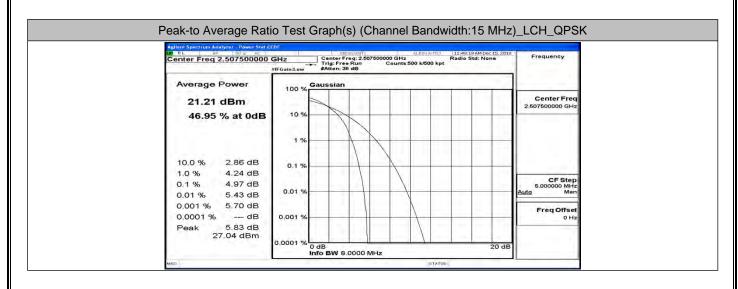


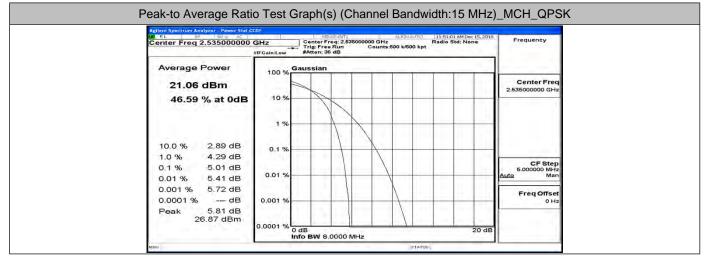
| RL RF 909 AC  |   | 11:47:38 AM Dec 15, 2018 Freque | Incy                     |
|---|---|---------------------------------|--------------------------|
| Center Freq 2.5650000   | O GHZ Center Freq: 2.56500000 GHz<br>Trig: Free Run Counts:500 k/500 kpt<br>#Atten: 36 dB | Radio Std: None Freque          | incy                     |
| Average Power   | 100 % Gaussian  |                                 |                          |
| 21.00 dBm   |   | Cent.<br>2.565000               | er Freq<br>000 GHz       |
| 44.11 % at 0dE  | 1%  |                                 |                          |
| 10.0 % 2.94 dB  | 0.1 %   |                                 |                          |
| 1.0 %      4.92 dB        0.1 %      5.95 dB        0.01 %      6.50 dB | 0.01 %  | 5.0000<br>Auto                  | F Step<br>000 MHz<br>Man |
| 0.001 % 6.86 dB<br>0.0001 % dB  | 0.001 %   | Freq                            | 0 ffset<br>0 Hz          |

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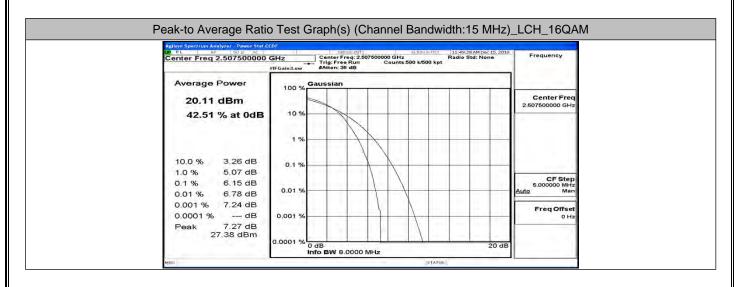


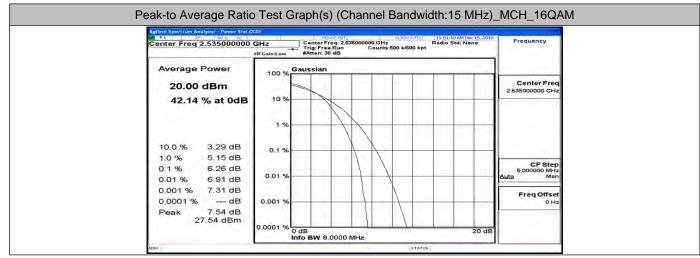
| COF   | 11:52:44 AM Dec 15, 2018  |
|---|---|
| GHZ Center Freq: 2.562500000 GHz Freg Even Counts:500 k/500 kpt | Radio Std: None Frequency   |
| 100 % Gaussian  |   |
|   | Center Fred<br>2.562500000 GH   |
| 10 %  |   |
| 1 %   |   |
| 0.1 %   |   |
| 0.01 %  | CF Step<br>5.000000 MHz<br>Auto Mar   |
| 0.001 %   | Freq Offset<br>0 Ha   |
|   |   |
|   | GHz      Center Freq 2: 5620000 GHz      ALDIANS        /// Center Freq 2: 5620000 GHz      Counts: 500 k/500 kpt      MFGalnitow        /// FGalnitow      Tig: Freq Run      Counts: 500 k/500 kpt        // 100 %      Gaussian      Counts: 500 k/500 kpt |

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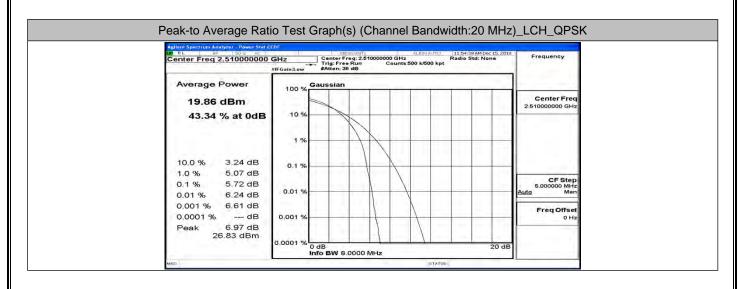


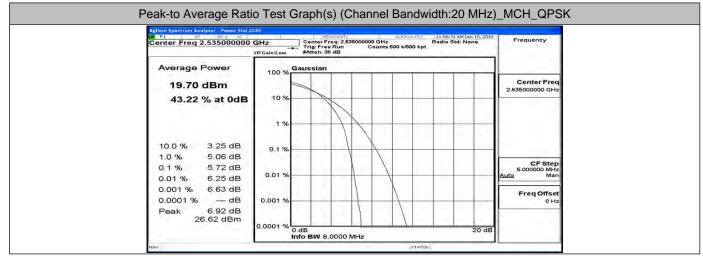
| Agilent Spectrum Analyzer - Power Stat         | SENSE/DVT ALIGN AUTIO  | 11:52:53 AM Dec 15, 2018 | Frequency                      |
|--|--|--------------------------|--------------------------------|
| Center Freq 2,562500000                        | GHz Center Freq: 2.562500000 GHz<br>Trig: Free Run Counts:500 k/500 kpt<br>#Atten: 36 dB | Radio Std: None          | Frequency                      |
| Average Power                                  | Cauccian   |                          |                                |
| 19.81 dBm<br>42.42 % at 0dB                    | 100 % Galssian   |                          | Center Freq<br>2.562500000 GHz |
| 10.0 % 3.27 dB<br>1.0 % 5.09 dB                | 0.1 %  |                          |                                |
| 0.1 % 6.17 dB<br>0.01 % 6.81 dB                | 0.01 %   |                          | CF Step<br>5.000000 MHz<br>Man |
| 0.001 % 7.32 dB<br>0.0001 % dB<br>Peak 7.62 dB | 0,001 %  |                          | Freq Offset<br>0 Hz            |

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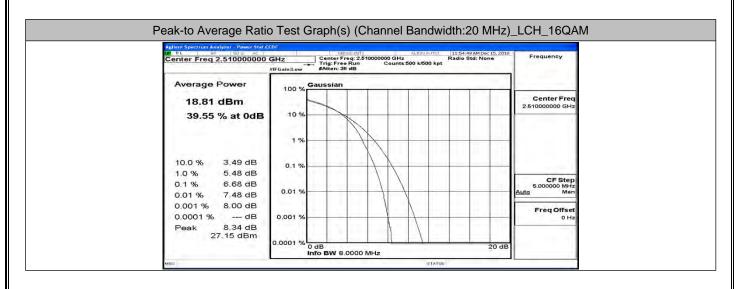


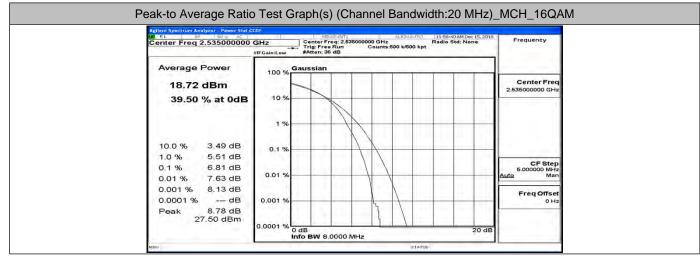
| Center Freq 2.56000000                           |                           | Radio Std: None | Frequency                          |  |  |  |  |
|--|---------------------------|-----------------|------------------------------------|--|--|--|--|
|  | //FGain:Low #Atten: 36 dB | kpt             |                                    |  |  |  |  |
| Average Power                                    | 100 % Gaussian            |                 |                                    |  |  |  |  |
| 19.52 dBm<br>43.08 % at 0dB                      |                           |                 | Center Freq<br>2.56000000 GHz      |  |  |  |  |
| 43.06 % at 00B                                   |                           |                 |                                    |  |  |  |  |
|  | 1 %                       |                 |                                    |  |  |  |  |
| 10.0 % 3.27 dB                                   | 0.1%                      |                 |                                    |  |  |  |  |
| 1.0 % 5.15 dB<br>0.1 % 5.78 dB<br>0.01 % 6.29 dB | 0.01 %                    |                 | CF Step<br>5.000000 MHz<br>uto Man |  |  |  |  |
| 0.001 % 6.60 dB                                  | 0.001 %                   |                 | Freq Offset<br>0 Hz                |  |  |  |  |
| 0.0001 % dB                                      |                           |                 |                                    |  |  |  |  |

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| Image: Second construct with a second construction of the second consecond conseconstruction of the second construction of the second | Center Freq 2.56000000      | Center Freg: 2.56000000 GHz         | 11:58:35 AM Dec 15, 2018<br>Radio Std: None | Frequency    |
|---|-----------------------------|-------------------------------------|---|--------------|
| 18.48 dBm      100 %        39.36 % at 0dB      10 %        10.0 %      3.52 dB        1.0 %      5.55 dB        0.1 %      0.1 %        0.01 %      6.67 dB        0.01 %      0.01 %        0.001 %      7.38 dB        0.001 %      0.001 %  | Conter 1104 2.0000000       | Trig: Free Run Counts:500 k/500 kpt |   | and see 1    |
| 18.48 dBm      Center Freq        39.36 % at 0dB      10 %        10 %      10 %        10 %      1 %        10.0 %      3.52 dB        0.1 %      0.1 %        0.1 %      6.67 dB        0.01 %      0.01 %        0.001 %      8.04 dB        0.001 %      0.001 %  | Average Power               | 100 % Gaussian                      |   |              |
| 10.0 %      3.52 dB      0.1 %        10.0 %      3.52 dB      0.1 %        1.0 %      5.55 dB      0.1 %        0.1 %      6.67 dB      0.01 %        0.01 %      7.38 dB      0.01 %        0.001 %      8.04 dB      0.001 %        0.0001 %      dB      0.001 %  |                             |                                     |   |              |
| 10.0 %      3.52 dB      0.1 %  | 39.36 % at 0dB              | 3 10 %                              |   |              |
| 1.0 %      5.55 dB      0.1 %      CF Step        0.1 %      6.67 dB      0.01 %      Auto        0.01 %      7.38 dB      0.01 %      Auto        0.001 %      8.04 dB      0.001 %      Freq Offset        0.0001 %      dB      0.001 %      0.01 %  |                             | 1 %                                 |   |              |
| 0.1 % 6.67 dB<br>0.01 % 7.38 dB<br>0.001 % 8.04 dB<br>0.0001 % dB 0.001 % 0.01 % 0.001 % 0.001 % 0.0000 MHz   |                             | 0.1 %                               |   |              |
| 0.001 % 7.38 dB<br>0.001 % 8.04 dB<br>0.0001 % dB 0.001 %   | 0.1 % 6.67 dB               | 0.01 %                              |   | 5.000000 MHz |
| 0.0001 % dB 0.001 % 0 Hz  |                             |                                     |   |              |
|   | 0.0001 % dB<br>Peak 8.41 dB | 0,001 %                             |   |              |

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### D.3 26dB Bandwidth and Occupied Bandwidth

|            | EBW & OBW T | est Result (Channel Ban | dwidth: 5 MHz) |         |
|------------|-------------|-------------------------|----------------|---------|
| Modulation | Channel     | Occupied Bandwidth      | 26dB Bandwidth | Verdict |
| MODUIAtion | Charmer     | (MHz)                   | (MHz)          | Verdict |
|            | LCH         | 4.4732                  | 4.854          | PASS    |
| QPSK       | MCH         | 4.4753                  | 4.854          | PASS    |
|            | НСН         | 4.4871                  | 4.868          | PASS    |
|            | LCH         | 4.4826                  | 4.847          | PASS    |
| 16QAM      | MCH         | 4.4826                  | 4.852          | PASS    |
|            | НСН         | 4.4770                  | 4.925          | PASS    |

|            | EBW & OBW Te | est Result (Channel Band | dwidth: 10 MHz) |         |
|------------|--------------|--------------------------|-----------------|---------|
| Modulation | Channel      | Occupied Bandwidth       | 26dB Bandwidth  | Verdict |
| Wodulation | Channer      | (MHz)                    | (MHz)           | Verdict |
|            | LCH          | 8.9386                   | 9.567           | PASS    |
| QPSK       | MCH          | 8.9501                   | 9.571           | PASS    |
|            | НСН          | 8.9554                   | 9.525           | PASS    |
|            | LCH          | 8.9479                   | 9.542           | PASS    |
| 16QAM      | МСН          | 8.9391                   | 9.465           | PASS    |
|            | НСН          | 8.9582                   | 9.516           | PASS    |

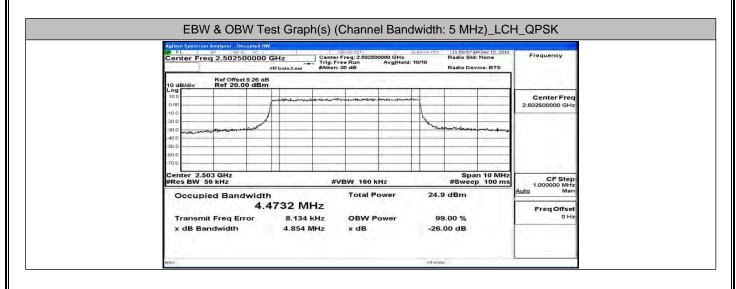
|            | EBW & OBW Te | est Result (Channel Band    | dwidth: 15 MHz)         |         |
|------------|--------------|-----------------------------|-------------------------|---------|
| Modulation | Channel      | Occupied Bandwidth<br>(MHz) | 26dB Bandwidth<br>(MHz) | Verdict |
|            | LCH          | 13.400                      | 14.20                   | PASS    |
| QPSK       | MCH          | 13.425                      | 14.05                   | PASS    |
|            | НСН          | 13.423                      | 14.10                   | PASS    |
|            | LCH          | 13.401                      | 14.11                   | PASS    |
| 16QAM      | MCH          | 13.407                      | 14.24                   | PASS    |
|            | НСН          | 13.406                      | 14.09                   | PASS    |

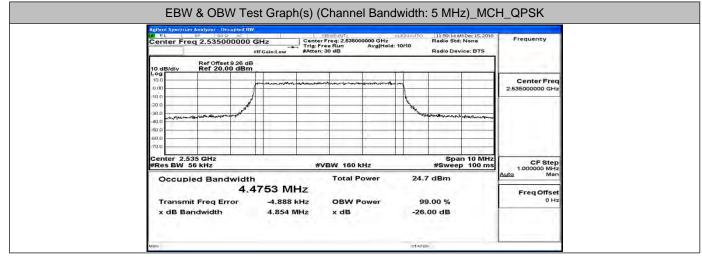
|            | EBW & OBW Te | est Result (Channel Band | dwidth: 20 MHz) |         |
|------------|--------------|--------------------------|-----------------|---------|
| Modulation | Channel      | Occupied Bandwidth       | 26dB Bandwidth  | Verdict |
| wouldtion  | Channel      | (MHz)                    | (MHz)           | Verdict |
|            | LCH          | 17.826                   | 18.65           | PASS    |
| QPSK       | MCH          | 17.867                   | 18.67           | PASS    |
|            | НСН          | 17.853                   | 18.60           | PASS    |
|            | LCH          | 17.836                   | 18.60           | PASS    |
| 16QAM      | MCH          | 17.870                   | 18.69           | PASS    |
|            | НСН          | 17.834                   | 18.68           | PASS    |

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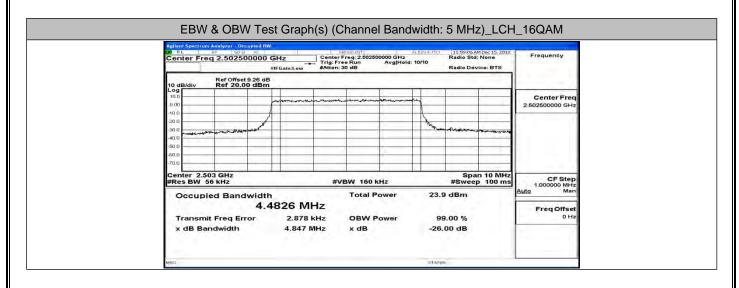


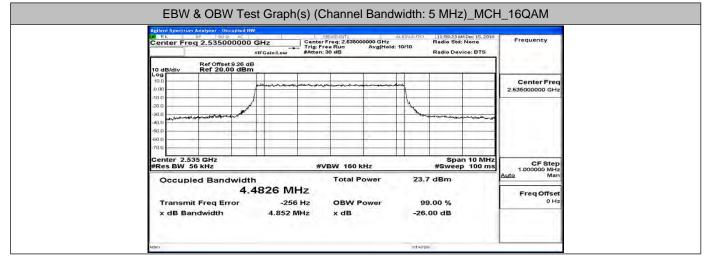
| Trig: Free Run Avg[Hold: 10/10        |                |           |                      |     |       |                  |                      | Frequency                      |  |                   |                     |
|---------------------------------------|----------------|-----------|----------------------|-----|-------|------------------|----------------------|--------------------------------|--|-------------------|---------------------|
| Ref Offset 8.94                       |                | #Atten: 3 | 30 dB                |     |       | Radio Dev        | rice: BTS            | 1. A. A.                       |  |                   |                     |
|                                       |                |           |                      |     | -     |                  |                      | Center Freq<br>2.567500000 GHz |  |                   |                     |
| -100<br>-200<br>-300<br>-400          | 4              |           |                      |     | 1 mar | the second to be | Vilian -             |                                |  |                   |                     |
| -60.0<br>-70.0                        |                |           |                      |     |       |                  |                      |                                |  |                   |                     |
| Center 2.568 GHz<br>#Res BW 56 kHz    | 1.1            | #VI       | BW 160 k             | kHz |       |                  | n 10 MHz<br>p 100 ms | CF Step                        |  |                   |                     |
| Occupied Bandwid                      | ith<br>.4871 M | ц.,       | Total Power 24.4 dBm |     |       |                  |                      | Auto Man                       |  |                   |                     |
| Transmit Freq Error<br>x dB Bandwidth | -9             | -97 Hz O  |                      |     |       |                  |                      |                                |  | OBW Power 99.00 % | Freq Offset<br>0 Hz |

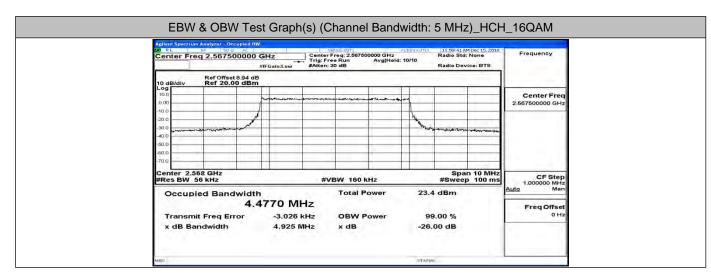
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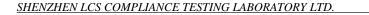
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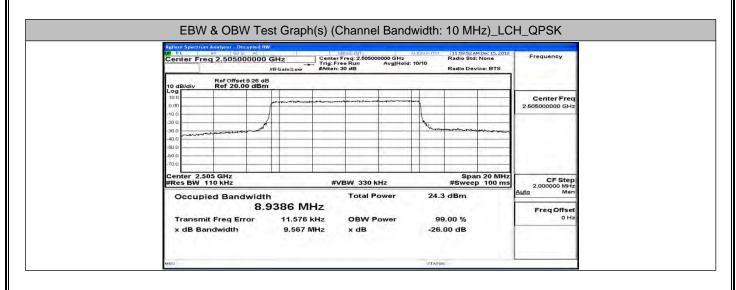


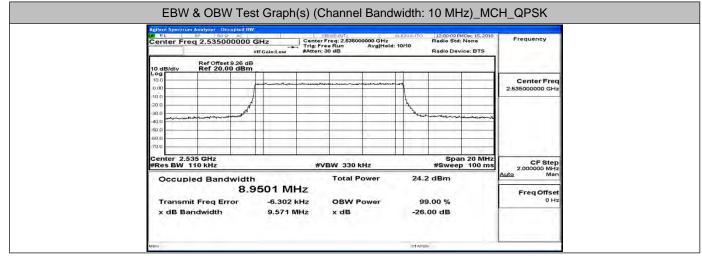


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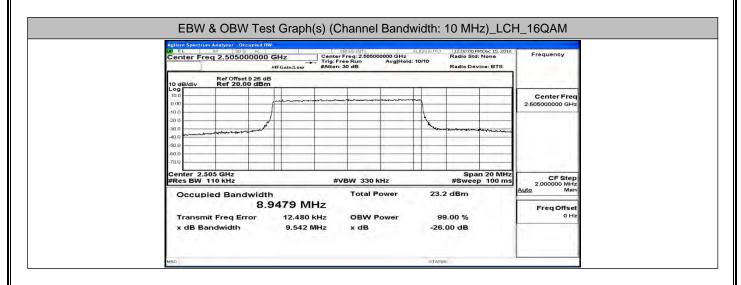


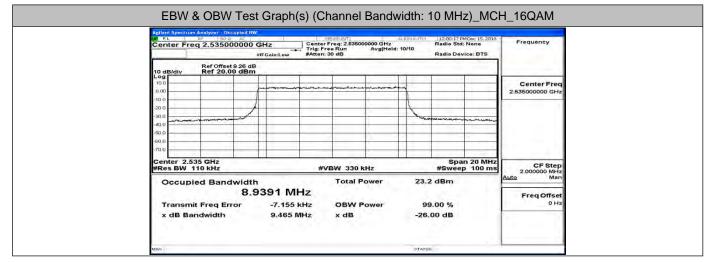
| Center Freq 2,56500000                                      |                     | Center Fre  |           | OGHz<br>vg[Hold: 10 | GNAUTIO<br>0/10 | Radio Dev                           |                          | Frequency                     |
|---|---------------------|---|-----------|---------------------|-----------------|-------------------------------------|--------------------------|-------------------------------|
| Ref Offset 8.94   | dB                  | articen, co                                       |           |                     |                 | Hadio Dei                           |                          |                               |
| 10.0<br>.0.00   | Junior              | *.P-#+****  |           |                     |                 |                                     |                          | Center Freq<br>2.56500000 GHz |
| -10.0<br>-20.0<br>-30.0<br>-30.0<br>-30.0<br>-30.0<br>-30.0 |                     |   |           |                     | ×.              | نېزىرىنى مەرىپىرىنى<br>مەرىپارىيىنى |                          |                               |
| -80.0<br>-70.0<br>Center 2.565 GHz<br>#Res BW 110 kHz       |                     | #1/8  | W 330 kHz |                     |                 | Spa<br>#Swaa                        | n 20 MHz                 | CF Step                       |
| Occupied Bandwic  | 32.57               | VBW 330 kHz #Sweep 100 ms<br>Total Power 23.9 dBm |           |                     |                 |                                     | 2.000000 MHz<br>Auto Man |                               |
| Transmit Freq Error<br>x dB Bandwidth                       | -4.880 I<br>9.525 N | kHz   | OBW Pow   | er                  |                 | 9.00 %<br>00 dB                     |                          | Freq Offset<br>0 Hz           |

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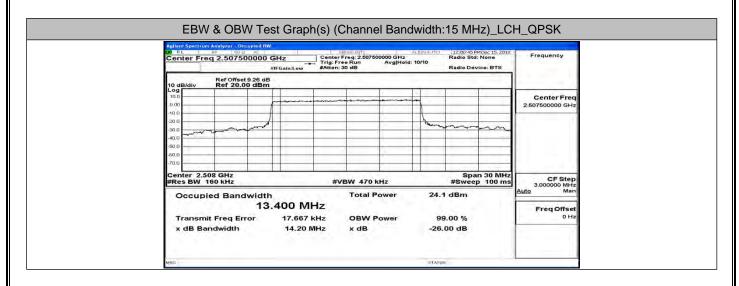


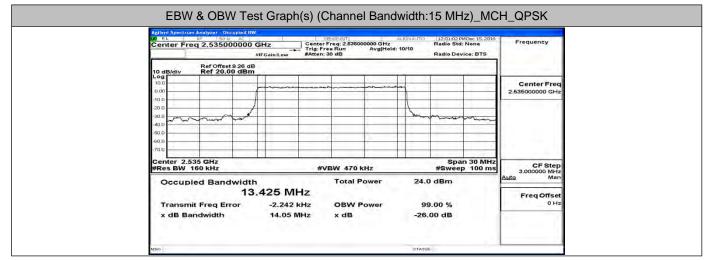
| Agilent Spectrum Analyzer           | SO & AC                     |                    | 55       | PISE DIT   | - 1       | LIGNAUTO         | 12:00:36 P | MDec 15, 2018 |                                |
|-------------------------------------|-----------------------------|--------------------|----------|--|-----------|------------------|------------|---------------|--------------------------------|
| Center Freq 2.56                    |                             | GHz<br>#IFGain:Low | Center F | req: 2.56500<br>e Run                              | Avg[Hold: | 10/10            | Radio Std  |               | Frequency                      |
| 10 dB/div Ref 2                     | Tset 8.94 dB<br>0.00 dBm    |                    |          |  |           |                  |            |               |                                |
| 10.0<br>0.00                        |                             |                    |          |  |           | -                |            |               | Center Fred<br>2.565000000 GH; |
| -10.0<br>-20.0<br>-30.0             | and                         |                    |          |  |           | the              |            | -             |                                |
| -40.0<br>-50.0<br>-60.0             |                             |                    |          |  |           |                  |            |               |                                |
| Center 2.565 GHz<br>#Res BW 110 kHz |                             |                    | #\/      | BW 3301  |           | -                |            | n 20 MHz      | CF Step                        |
| Occupied Bandwidth                  |                             |                    |          | #VBW 330 kHz #Sweep 100 ms<br>Total Power 23.0 dBm |           |                  |            |               | 2.000000 MHz<br>Auto Man       |
| Transmit Freq                       | 9582 M<br>-9.702<br>9.516 M |                    |          | OBW Power 99.0                                     |           | BW Power 99.00 % |            |               | Freq Offset<br>0 Hz            |

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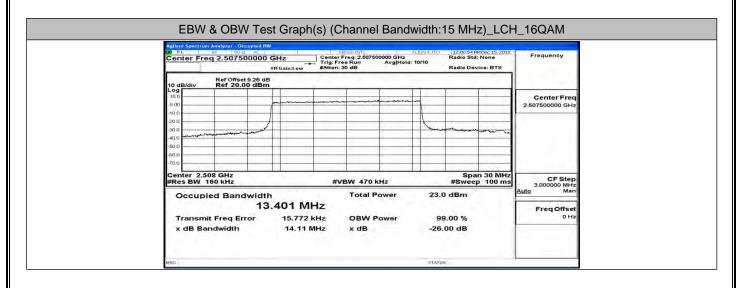


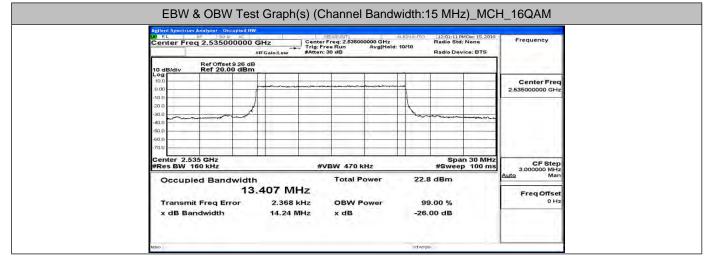
| Agilent Spectrum Analyzer - Occupi<br>DO RL RF 50 Gr / |   |                               | ET ISE(DAT)                       | ALIGNAU           | 12:01:22            | PMDec 15, 2018         |                               |
|--|---|-------------------------------|-----------------------------------|-------------------|---------------------|------------------------|-------------------------------|
| Center Freq 2.5625000                                  |   | Center<br>Trig: Fr            | Freq: 2.562500000 G<br>ee Run Avg | Hz<br>Hold: 10/10 | Radio S             |                        | Frequency                     |
| Ref Offset 8.5<br>10 dB/div Ref 20.00 d                |   |                               |                                   | ~ ~               |                     |                        |                               |
| 10.0<br>0.00   |   |                               |                                   |                   |                     |                        | Center Fred<br>2.562500000 GH |
| -20.0  | 1 |                               |                                   | her               |                     |                        |                               |
| -40.0<br>-50.0<br>-60.0                                |   |                               |                                   |                   | _                   |                        |                               |
| Center 2.563 GHz<br>#Res BW 160 kHz                    |   | #V                            | /BW 470 kHz                       |                   |                     | an 30 MHz<br>ep 100 ms | CF Step<br>3.000000 MHz       |
| Occupied Bandw   |   |                               | Total Power                       | 2                 | 3.8 dBm             | 3 15                   | Auto Man                      |
| Transmit Freq Error<br>x dB Bandwidth                  |   | 3 MHZ<br>.219 kHz<br>1.10 MHz | OBW Power<br>x dB                 |                   | 99.00 %<br>26.00 dB |                        | Freq Offset<br>0 Hz           |

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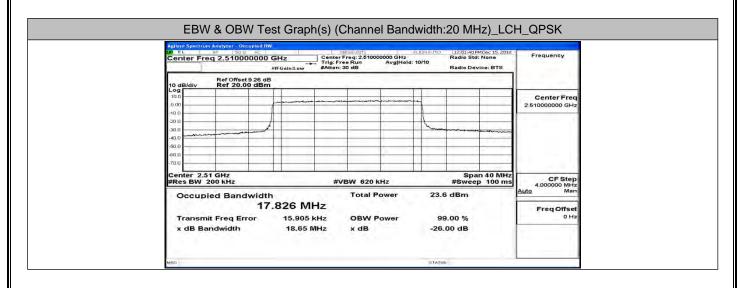


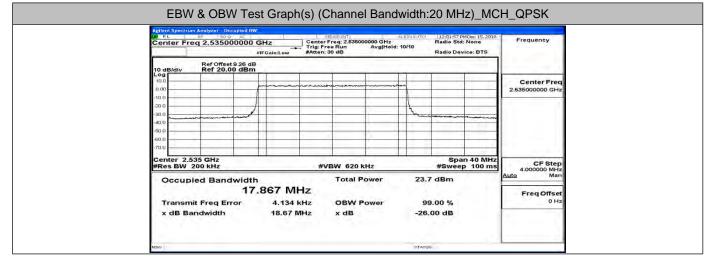
| Center Freq 2,56250000                | 00 GHz                         | Trig: Free F | q: 2.562500000 GHz<br>Run Avg/Ho | ALIGN AUTO | Radio Std:       |                                    | Frequency                      |
|---------------------------------------|--------------------------------|--------------|----------------------------------|------------|------------------|------------------------------------|--------------------------------|
| Ref Offset 8.94                       | #IFGain:Low                    | #Atten; 30 c | 18                               |            | Radio Devi       | ice: BTS                           |                                |
| 10 dB/div Ref 20.00 dE                | am                             |              |                                  | -          |                  |                                    | Center Freq<br>2.562500000 GHz |
| -10.0<br>-20.0<br>-30.0               | 4                              |              |                                  |            | and marked       | روم می مانوند.<br>میرون می مانوند. |                                |
| -60.0<br>-70.0                        |                                |              |                                  |            |                  |                                    |                                |
| Center 2.563 GHz<br>#Res BW 160 kHz   |                                | #VBV         | V 470 kHz                        |            | Spar<br>#Sweep   | n 30 MHz<br>0 100 ms               | CF Step<br>3.000000 MHz        |
| Occupied Bandwid                      |                                |              | fotal Power                      | 22.        | 7 dBm            |                                    | <u>Auto</u> Man                |
| Transmit Freq Error<br>x dB Bandwidth | 13.406 M<br>-29.870<br>14.09 J | kHz C        | DBW Power                        |            | 9.00 %<br>.00 dB |                                    | Freq Offset<br>0 Hz            |

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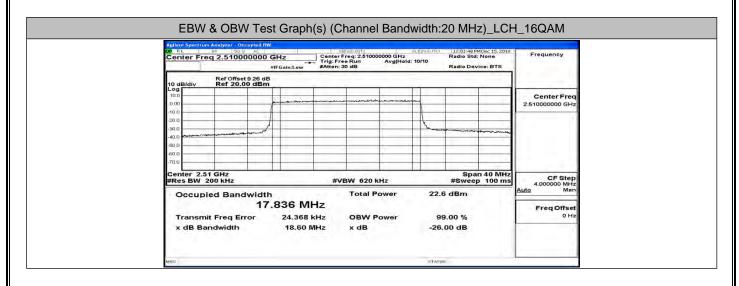


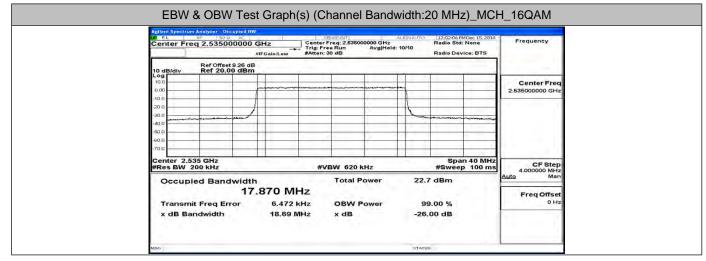
| Frequency                    | 10ec 15, 2018<br>None | Radio Std:                             | ALIGNAUTO | 0000000 GHz<br>AvglHold | enter Fre<br>rig: Free I | Hz        |                         | RF 50              |              |
|------------------------------|-----------------------|--|-----------|-------------------------|--------------------------|-----------|-------------------------|--------------------|--------------|
| 1.1.1                        | ice: BTS              | Radio Devi                             | - 3.45    |                         | Atten; 30                | Gain:Low  | 278 CZ 75 27            |                    |              |
|                              |                       |  |           |                         | - 1                      |           | set 8.94 dB<br>0.00 dBm | Ref Offs<br>Ref 20 | 0 dB/div     |
| Center Fre<br>2.560000000 GH |                       |  |           | 4                       |                          |           | 1                       | _                  | 0.00         |
|                              |                       |  |           |                         |                          |           | 10.0<br>20.0<br>30.0    |                    |              |
|                              |                       | ************************************** |           |                         |                          |           |                         |                    | 40.0         |
|                              |                       |  |           |                         |                          |           |                         | -                  | 90.0<br>70.0 |
| CF Ste                       | n 40 MHz<br>0 100 ms  | Spar<br>#Sweep                         |           | 0 kHz                   | #VBV                     |           |                         |                    | Center 2.5   |
| Auto Ma                      |                       | ō dBm                                  | 23.       | Power                   |                          |           | ndwidth                 | ied Ban            | Occup        |
| Freq Offse<br>0 H            |                       | 9.00 %                                 | 9         | Power                   |                          | -32.872 k |                         | nit Freq E         | Transm       |
|                              |                       | 00 dB                                  |           |                         |                          | 18.60 M   |                         | andwidth           |              |

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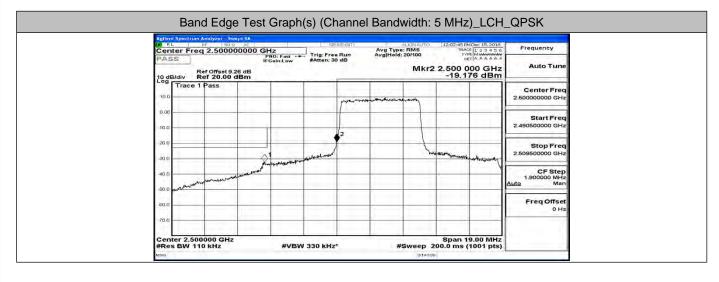




| Center Freq 2,56000000                    |                       | SERVER Center Freq: 2 | 560000000 GHz | ALIGNAUTO | 12:02:24 PM<br>Radio Std: | 10ec 15, 2018<br>None | Frequency                       |
|---|-----------------------|-----------------------|---------------|-----------|---------------------------|-----------------------|---------------------------------|
|   | #IFGain:Low           | #Atten: 30 dB         | Avg[Hol       | d: 10/10  | Radio Devi                | ice: BTS              |                                 |
| Ref Offset 8.94<br>10 dB/div Ref 20.00 dB |                       |                       |               |           |                           |                       |                                 |
| 10.0<br>0.00                              | paraman               |                       |               |           |                           |                       | Center Fred<br>2.560000000 GH   |
| -10.0                                     | A = 1                 |                       | -             | 11        |                           |                       | -                               |
| -30.0<br>-40.0                            |                       |                       |               |           |                           |                       |                                 |
| -50.0                                     |                       |                       | -             |           |                           |                       |                                 |
| Center 2.56 GHz<br>#Res BW 200 kHz        |                       | #VBW (                | 520 kHz       |           |                           | 100 ms                | CF Step                         |
| Occupied Bandwid                          | lth                   |                       | al Power      | 22.       | 4 dBm                     |                       | 4.000000 MHz<br><u>Auto</u> Man |
| 1<br>Transmit Freq Error                  | 7.834 MH<br>-28.897 k |                       | W Power       | 9         | 9.00 %                    |                       | Freq Offset<br>0 Hz             |
| 1. Charles A which is not a               |                       | Hz OB                 |               |           | 9.00 %<br>.00 dB          |                       |                                 |

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### D.4 Band Edge



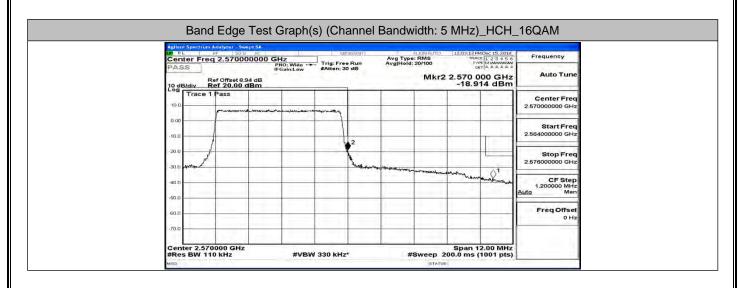
|           | trum Analyzer         | Swept SA        |                        |           |           |                       |               | 1.0.00  |   |                              |
|-----------|-----------------------|-----------------|------------------------|-----------|-----------|-----------------------|---------------|---------|---|------------------------------|
| Center F  |                       | 0000000 G       | Hz                     |           | PIGEIDIT! | Avg Type<br>Avg[Hold: | RMS           | TRACI   | 1 2 3 4 5 6<br>E 1 2 3 4 5 6<br>E M A A A A A | Frequency                    |
| PASS      | Ref Offse<br>Ref 20.0 | 11<br>1 8.94 dB | PNO: Wide<br>FGain:Low | #Atten: 3 | o dB      | Arginold.             |               | 2.570 0 | 00 GHz<br>92 dBm                              | Auto Tune                    |
| 10.0 Trac | ce 1 Pass             | 7               |                        |           |           |                       | 1 1           |         |   | Center Freq                  |
| 0.00      |                       |                 | montagenerate of       | many      |           |                       |               |         |   | Start Fred                   |
| -10.0     | 1                     |                 |                        |           | 2         | -                     |               |         |   | 2.564000000 GHz              |
| -20.0     | 1                     |                 |                        |           | Lynnew    |                       |               |         |   | Stop Freq<br>2.576000000 GHz |
| -40.0     |                       |                 |                        | 1         |           | . i.e steller vi      | the way to be | and you | Jumpern                                       | CF Step<br>1.200000 MHz      |
| -50.0     |                       |                 |                        |           |           |                       |               |         |   | Auto Man<br>Freg Offset      |
| -60.0     |                       |                 |                        | -         |           |                       | 1             |         |   | 0 Hz                         |
|           |                       | 1.1.1           |                        | 100       |           |                       | 1             |         | 2.00 MHz                                      | _                            |

| Center Freq 2.50000000 GHz<br>PASS  Trig: Free Run<br>HealnLow  Avg Type: RMS<br>AvgIted: 18100  Trig: Center Freq<br>(2.400500000 GHz<br>-19.358 dBm  Frequency    Ref Offset 3.25 dB<br>10 dB/div  Ref Offset 3.25 dB<br>Ref Offset 3.25 dB  Mkr2 2.500 000 GHz<br>-19.358 dBm  Auto Tune    10 dB/div  Ref Offset 3.25 dB<br>000  Center Freq<br>2.6000000 GHz<br>-19.358 dBm  Center Freq<br>2.600000 GHz<br>2.600000 GHz  Auto Tune    100<br>000  000  000  Center Freq<br>2.600000 GHz  Center Freq<br>2.600000 GHz    300<br>000  000  000  Center Freq<br>2.600000 GHz  Start Freq<br>2.50950000 GHz    300<br>000  000  000  CF Step<br>1.600000 Hz  CF Step<br>1.600000 Hz    300<br>000  000  000  CF Step<br>1.600000 Hz  CF Step<br>1.600000 Hz    300<br>000  000  000  000  000   | Agilent Spectrum Analyzer - Swep         |                          | T ALIGNAUTIO 12:02:               |                                  |                |
|---|--|--------------------------|-----------------------------------|----------------------------------|----------------|
| Ref Offset 9.26 dB      Auto Tune        10 dB/div      Ref 20.00 dBm      -19.358 dBm        100      100      -19.358 dBm      2.6000000 GHz        100      100      100      2.6000000 GHz      2.6000000 GHz        100      100      100      100      2.6000000 GHz      2.6000000 GHz        100      100      100      100      100      2.600000 GHz      2.6000000 GHz        2.000      100   | Center Freq 2.500000                     | 000 GHz                  | Avg Type: RMS<br>Avg[Hold: 19/100 | TRACE 1 2 3 4 5 6<br>TYPE MMMMMM | Frequency      |
| Trace 1 Pass      Center Freq        000      2.60000000 GHz        000      300        000      2        000      2        000      2        000      2        000      2        000      2        000      2        000      2        000      2        000      2        000      2        000      2        000      2        000      2        000      4        000      4        000      4        000      4        000      4        000      4        000      4        000      4        000      4        000      4        000      4        000      4        000      4  | 10 dB/div Ref 20.00 dE                   | IFGain:Low #Atten: 30 dE | Mkr2 2.50                         | 0 000 GHz                        | Auto Tune      |
| 0.00      0.00 <td< td=""><td>Trace 1 Pass</td><td></td><td></td><td></td><td></td></td<> | Trace 1 Pass                             |                          |                                   |                                  |                |
| Start Freq      Start Freq        200      2      2.490500000 GHz        300      300      300      300        400      300      300      300        400      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300      300      300        400      300      300  | 10.0                                     | m                        | minimum                           |                                  | 2,50000000 GHz |
| 200      2      Stop Freq<br>2.50950000 GHz        300         |  |                          |                                   |                                  |                |
| 300      300 <td></td> <td>♦2</td> <td></td> <td></td> <td></td>   |  | ♦2                       |                                   |                                  |                |
| 400      CF 58 cp      1   |  |                          | 1 hoursen                         |                                  |                |
| 800 FreqOffset 0H2  |  |                          |                                   | method doubt                     | CF Step        |
| 800 FreqOffset 0H2  | 50 0 - manufacture of manufacture of the |                          |                                   |                                  |                |
| -70.0   |  |                          |                                   | 11121                            |                |
|   | -70.0                                    |                          |                                   |                                  | 0 Hz           |
|   | Center 2.500000 GHz                      |                          | and a second second second        | n 19.00 MHz                      |                |

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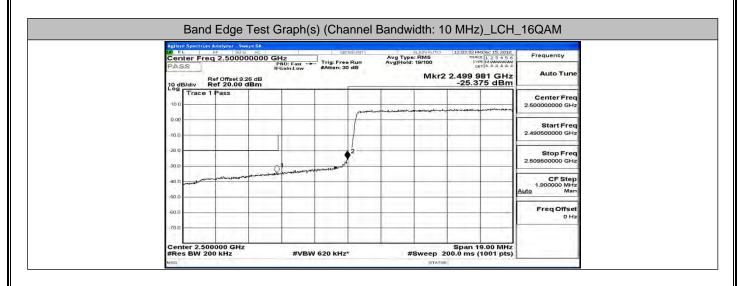
| Center         | R     | nalyzer Sw<br>F 90 0<br>2.50000 |             | Hz                   |           | HEEDATI       | Avg Type  | RMS   | 12:03:23 PMI<br>TRACE | 123455          | Frequency                       |
|----------------|-------|---------------------------------|-------------|----------------------|-----------|---------------|-----------|-------|-----------------------|-----------------|---------------------------------|
| PASS           | v Re  | off offset 9.2                  | IF<br>26 dB | NO: Fast<br>Gain:Low | #Atten: 3 | e Run<br>0 dB | Avg[Hold: |       | 2.500 00              | 00 GHz<br>3 dBm | Auto Tune                       |
| 10.0 Tr        | ace 1 | Pass                            |             |                      |           |               |           | manim |                       | whetemates      | Center Freq<br>2.50000000 GHz   |
| 0.00           |       |                                 |             |                      | -         |               |           |       |                       |                 | Start Freq<br>2.490500000 GHz   |
| -20.0          |       |                                 |             | -                    |           | 2             | _         | 1     |                       |                 | Stop Freq<br>2.50950000 GHz     |
| -30.0<br>-40.0 |       |                                 | er-stonedu  |                      | - warne a |               |           |       |                       |                 | CF Step                         |
| -50.0          | -     |                                 |             |                      |           |               | _         |       |                       |                 | 1.900000 MHz<br><u>Auto</u> Man |
| -60.0          | -     |                                 |             |                      |           |               |           |       |                       |                 | Freq Offset<br>0 Hz             |
| -70.0          |       |                                 |             | 1.1.                 |           |               |           |       |                       | 1.11            |                                 |

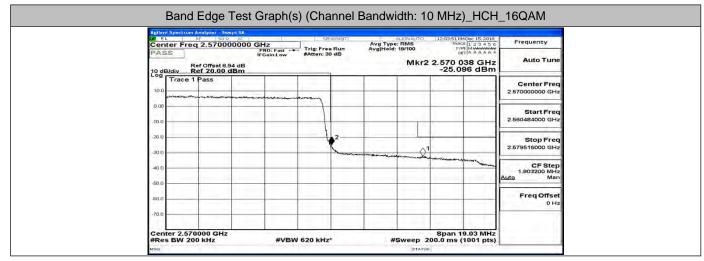
| Agile |          | Analyzor Sv               |         |                    | 55        | PMSE(DVT)     |                       | ALIGN AUTO      | 12:03:42 PM | 4Dec 15,2018                         |                                |
|-------|----------|---------------------------|---------|--------------------|-----------|---------------|-----------------------|-----------------|-------------|--------------------------------------|--------------------------------|
|       | nter Fre |                           | 00000 G | HZ<br>PNO: Fast -+ | Trig: Fre | e Run         | Avg Type<br>Avg[Hold: | : RMS<br>20/100 | TRAC        | E 123456<br>E MMMMM<br>T A A A A A A | Frequency                      |
| PA    | B/div F  | Ref Offset 8<br>Ref 20.00 | 94 dB   | Gain:Low           | #Atten: 3 | D dB          |                       |                 | 2.570 0     | 00 GHz<br>29 dBm                     | Auto Tune                      |
| 10.0  | Trace    | Pass                      |         |                    |           |               |                       | -               |             |                                      | Center Freq<br>2.570000000 GHz |
| -16.0 |          |                           |         |                    |           |               |                       |                 | <u> </u>    |                                      | Start Freq<br>2.560475000 GHz  |
| -20.0 | -        |                           |         |                    |           | 2             |                       |                 |             | A1                                   | Stop Freq<br>2.579525000 GHz   |
| -30.0 | 1.1      |                           |         |                    |           | A at the spec |                       | 6,000 Mar. 200  |             | and a                                | CF Step<br>1.905000 MHz        |
| -50.0 |          |                           |         |                    |           |               |                       |                 |             |                                      | Auto Man<br>Freq Offset        |
| -70.0 | -        | 1                         |         |                    |           |               |                       |                 |             |                                      | 0 Hz                           |

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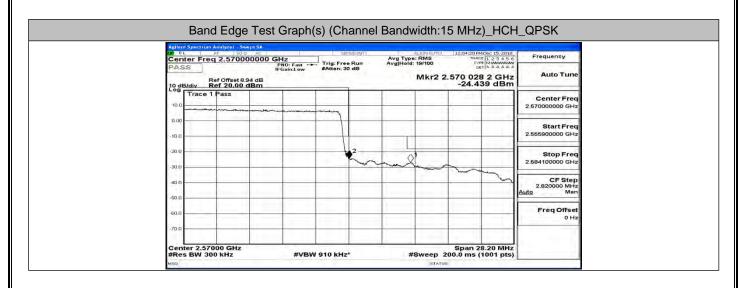


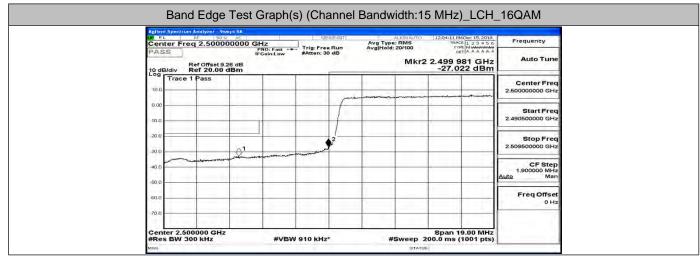
| L)KI | RL     | um Analyzo<br>RF   | 50 0 A    | C  | - 1-          | 1 5       | EMGE:DVT] | . T.              | ALIGN AUTO | 12:04:01 PMDec         | 15,2018        | Frequency                           |
|------|--------|--------------------|-----------|----|---------------|-----------|-----------|-------------------|------------|------------------------|----------------|-------------------------------------|
|      | ss     | eq 2.50            | 000000    | PI | Z<br>IO: Fast | Trig: Fre | e Run     | Avg Ty<br>Avg[Hol | d: 20/100  | TRACE 1                | 23456<br>AAAAA | Trequency                           |
| 10   | dB/div | Ref Offs<br>Ref 20 | et 9.26 d | в  | sain:Low      | PALEN     |           |                   | Mkra       | 2 2.499 981<br>-23.779 | GHz            |                                     |
| 10   | Trace  | e 1 Pass           | 67        |    |               |           |           |                   |            |                        |                | Center Freq<br>2,50000000 GHz       |
| 0.0  | io     | -                  | -         | -  |               |           | 1         | -                 |            |                        |                | Start Freq                          |
| -10  |        | _                  |           |    |               |           |           |                   |            |                        |                | 2.490500000 GHz                     |
| -20  | 16-    |                    |           | 0  | ~             |           | Ý         |                   |            |                        |                | Stop Freq<br>2.509500000 GHz        |
| -48. | •      |                    |           |    |               |           |           |                   |            |                        |                | CF Step<br>1.900000 MHz<br>Auto Man |
| -60  | 0      | _                  |           |    | -             |           |           |                   |            |                        | -              | Freq Offset<br>0 Hz                 |

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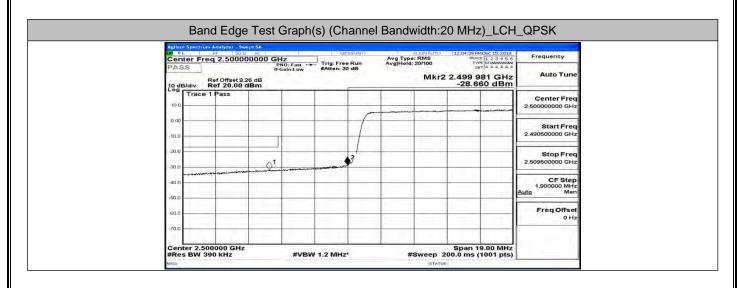


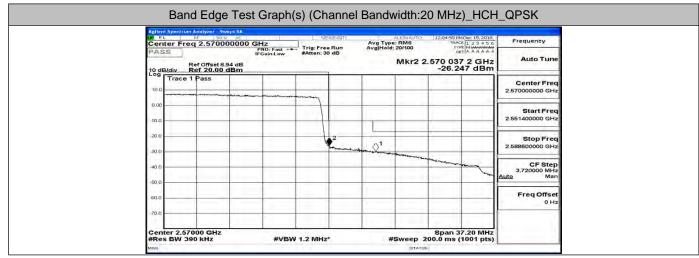
| Center Freq 2.570000000 GHz<br>PASS      Trig: Free Run<br>Broan Low      Ave Type: RNS<br>Ave Type: RNS |                               | 12:04:30 PMDec 15, 2018 | ALIGNAUTO                         | ENGE:DAT |                 | lyzer Swept SA<br>SO'S AC |             | Agilent |
|--|-------------------------------|-------------------------|-----------------------------------|----------|-----------------|---------------------------|-------------|---------|
| PASS      iFGeinLow      PAtter: 30 dB      Mkr2 2:570 000 GHz      Auto Tune        10 dGldw      Ref 076et 8:04 dB      -26.770 dBm      -26.770 dBm      -26.770 dBm        100   | Frequency                     | TRACE 1 2 3 4 5 6       | Avg Type: RMS<br>Avg[Hold: 20/100 | ee Run   | Trig: Fr        | .570000000 GH             | nter Freq 2 | Cent    |
| Center Freq      Center Freq        100      257000000 GHz        000      255531000 GHz        100      255531000 GHz        200      2        300      2        400      2        400      CF Step        500      Freq Offset   | Auto Tune                     | 2 2.570 000 GHz         |                                   | 30 dB    | sin:Low #Atten: | IFC                       | B/div Ref   | 10 dB   |
| Start Freq      Start F  | Center Freq<br>2.57000000 GHz |                         |                                   |          |                 | iss                       | Trace 1 P   |         |
| 300      22      1      Stop Freq<br>2.88409000 GHz        40.0      2.00      2.00      2.00        40.0      2.00      2.00      2.00        40.0      2.00      2.00      2.00        40.0      2.00      2.00      2.00        40.0      2.00      2.00      2.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00        40.0      7.00      7.00      7.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.1.1</td>   |                               |                         |                                   |          |                 |                           |             | 1.1.1   |
| 400 CF Step<br>2.815000 MHz<br>400 Eco Offset  |                               |                         | 01                                | 2        |                 |                           |             | 100.0   |
| 800 Freq Offset  | 2,818000 MHz                  |                         | martine                           |          |                 |                           |             | 1.0     |
|  |                               |                         |                                   |          |                 |                           |             | 1 m     |

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| LK R  |          | RF 50                     |             |            | SE                           | ISE:DAT |                      | ALIGN AUTIO | 12:04:50 PMDec 15, 2018                        |                                     |
|-------|----------|---------------------------|-------------|------------|------------------------------|---------|----------------------|-------------|--|-------------------------------------|
| Cer   | nter Fre |                           | 000000 GI   | NO: Fast - | Trig: Fre                    | Run     | Avg Type<br>Avg[Hold |             | TRACE 123450<br>TYPE MUMANANA<br>DET A A A A A | Frequency                           |
| 10 d  | B/div    | Ref Offset S<br>Ref 20.00 | 26 dB       | Gain:Low   | #Atten: 3                    | D dB    |                      | Mkr2        | 2.499 734 GHz<br>-29.661 dBm                   | Auto Tune                           |
| 10.0  | Trace    | 1 Pass                    |             |            |                              |         |                      |             |  | Center Freq<br>2.50000000 GHz       |
| 0.00  |          |                           |             |            |                              | T       |                      | <b>~</b>    |  | Start Freq<br>2.490500000 GHz       |
| -10.0 | -        |                           |             |            |                              |         |                      | 1           |  | Stop Freq                           |
| -30.0 |          | -                         | Have marked | -          | al and a state of the second | 1       |                      |             |  | 2.509500000 GHz                     |
| -40.0 |          |                           |             |            |                              |         |                      |             | 1  | CF Step<br>1.900000 MHz<br>Auto Man |
| -60.0 |          |                           |             |            |                              |         |                      |             |  | Freq Offset                         |
| -70.0 |          | -                         | -           | _          |                              |         | -                    |             |  |                                     |

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| L  P  200 pC  SEEBUT  AUGRATIC  1203509806/2552004  Prequency    Wet P Freq 2, 5700000000 GHz  Prest  Frequency  Avg Type: RMS  Prequency  Auto Tune    SS  Provide 83.4 dB  Mkr2 2, 570000000 GHz  Prequency  Auto Tune    Brduy  Ref Offset 8.94 dB  Mkr2 2, 57000000 GHz  Center Freq    Trace 1 Pass  22  1  2551320000 GHz    Center Freq  2551320000 GHz  Center Freq    2,551320000 GHz  22  1  2551320000 GHz    Center Freq  2,551320000 GHz  Start Freq    2,551320000 GHz  22  1  2,551320000 GHz    2,551320000 GHz  23  3,3736000 GHz  2,588860000 GHz    2,5503000 GHz  2,580000 GHz  3,3736000 GHz |
|---|
| Ref Offset 8.94 dB  Mkr2 2.570 00 GHz  Auto Tune    B/div  Ref 20.00 dBm  -28.081 dBm  Center Freq    Trace 1 Pass  |
| 2.57000000 GHz<br>2.55132000 GHz<br>2.58858000 GHz<br>2.58858000 GHz<br>2.58858000 GHz<br>2.58858000 GHz<br>2.58858000 GHz<br>3.73600 MHZ   |
| 2.55132000 GH2<br>2.588680000 GH2<br>2.588680000 GH2<br>CF Step<br>3.736000 MH2   |
| 2.588680000 GH2<br>CF Step<br>3.73600 MH2   |
| CF Step<br>3.73600 MHz  |
|   |
| FreqOffset  |

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# **D.5 Conducted Spurious Emission**

| 200              | RL           | Spectrum         | RF                 | 50 9 /           | NDC I              | -T                     | 1             | SENSEIINT            |              | vg Type:             |              | 11:59:12 4             | MDec 21, 2018   | Frequency                           |
|------------------|--------------|------------------|--------------------|------------------|--------------------|------------------------|---------------|----------------------|--------------|----------------------|--------------|------------------------|---|-------------------------------------|
|                  | era          | errie            | q 79.5             | 500 K            |                    | PNO: Wide<br>FGain:Low | #Atte         | Free Run<br>n: 22 dB | A            | vg Hold: 1           | 9/100        |                        | MDec 21, 2018<br>CE 1 2 3 4 5 6<br>PE MUMUUU<br>ET A A A A A A  | Auto Tune                           |
| 2                | o dB.        | /div             | Ref Offs<br>Ref 10 | et 10.6<br>.58 d | 58 dB<br>Bm        |                        |               |                      |              |                      | N            | 1kr1 10.<br>-60.7      | 269 kHz<br>61 dBm   | Autorune                            |
|                  | 580          | Ê                |                    |                  | 1                  | -                      | -             |                      |              |                      |              | 1                      |   | Center Freq<br>79.500 kHz           |
|                  | 9.42         | -                |                    |                  |                    |                        |               |                      |              |                      |              | 1                      |   |                                     |
| -1               | 19.4         |                  | -                  |                  |                    |                        | _             | _                    |              |                      |              |                        |   | Start Freq<br>9.000 kHz             |
| 3                | 29,4         | _                | -                  | _                |                    | -                      | _             |                      | _            |                      |              |                        |   | Stop Freq                           |
| 4                | 39.4 -       | -                | -                  |                  |                    | -                      | -             | _                    |              |                      | _            |                        |   | 150.000 kHz                         |
| 4                | 49.4         |                  | -                  |                  |                    |                        | -             |                      |              |                      | -            |                        | -55.00 dBm  | CF Step<br>14.100 kHz               |
| -6               | 59 4         | 1.               |                    |                  |                    |                        | -             |                      |              |                      | 111          |                        |   | Auto Man                            |
| -6               | 69.4         | A.M.A            | MANY               | nMayl            | wine al            | Ameral Mr.             | A             |                      |              |                      |              |                        |   | Freq Offset<br>0 Hz                 |
| -7               | 79.4         |                  | ,                  |                  | · 14 44            | - MAR IN               | WAM           | many                 | Marker 1     | underlighted         | MAND         | American               | /W/W//////<br>50.00 кнг   |                                     |
| S<br>#           |              | 9.00 k<br>BW 1.  |                    | 1                |                    |                        | SW 3.0 k      |                      |              |                      |              |                        | 50.00 kHz<br>(1001 pts)   | · · · · · · · · ·                   |
| 10               | 9 <b>1</b> 3 | _                |                    |                  |                    |                        | 111           |                      | _            |                      | STATUS       | S L DC Co              | upled   | -                                   |
| 1.00             | RL           | Spectrum         | RE                 | 50.0 4           | OO MH              | 1                      |               | SENSE: INT           | A            | vg Type:             | RMS          | 11:59:21 A             | MDec 21, 2018<br>CE 1 2 3 4 5 6                                 | Frequency                           |
|                  |              |                  |                    |                  |                    | PNO: Fast<br>FGain:Low | #Atte         | Free Run<br>n: 16 dB | A            | vg)Hold: I           | 8/100        |                        | 150 kHz   | Auto Tune                           |
| Ľ                | o dB.        | /div             | Ref Offs<br>Ref 10 | et 10.6          | 58 dB<br>Bm        |                        |               |                      | -            |                      | _            | -70.2                  | 30 dBm  |                                     |
| Q.               | 580 -        | -                |                    |                  |                    |                        | _             | _                    | _            |                      | _            |                        | -   | Center Freq<br>15.075000 MHz        |
| 4                | 9.42         | -                | -                  | _                |                    | -                      | -             | _                    | -            | -                    |              |                        |   | Start Freq                          |
| -1               | 19.4         | -                | -                  | _                | -                  |                        | -             | -                    | -            | -                    |              |                        |   | 150.000 kHz                         |
| -7               | 29,4         | -                | -                  |                  |                    | -                      | -             |                      |              |                      |              |                        |   | Stop Freq                           |
| 4                | 39.4         |                  | -                  |                  |                    |                        | -             |                      |              |                      |              |                        | -45,00 ct0m   | 30.000000 MHz                       |
| -4               | 49.4         |                  | 1                  |                  |                    | 1                      | -             |                      | 1            |                      |              |                        |   | CF Step<br>2.985000 MHz<br>Auto Man |
|                  | 59.4         | 1                | -                  |                  | 1.101              |                        |               |                      |              |                      |              |                        |   | Freq Offset                         |
|                  | 59.4         | house            | 1                  |                  |                    | 1                      | 1.5.          | 1                    | 110          |                      |              | 1                      | 1.1.1   | 0 Hz                                |
| -7               | 79 4 9       | 2. Alexandre     | Wandshill          | manifiation      | en, classification | numphysical            | and white the | frey flow of all its | rithing with | after Highward       | molinination |                        | an line line in the   |                                     |
| S<br>#           | tart<br>Res  | 150 ki<br>BW 1   | Hz<br>0 kHz        |                  |                    | #VE                    | 3W 30 KI      | Hz*                  |              | s                    |              | 168.3 ms               | 0.00 MHz<br>(1001 pts)  |                                     |
|                  | silant.      | Spectrum         | Anglese            | r - Sure         | 11.54              |                        | 1.11.1        | _                    |              |                      | STATU        | s 🦺 DC Co              | upled   |                                     |
| 1.00             | RL           |                  | RF                 | 50 0             | 00000              |                        | Tria:         | SENSEINT             | A            | vg Type:<br>vg]Hold: | RMS          | 11:59:24 A<br>TRA<br>D | MDec 21, 2018<br>CE 1 2 3 4 5 6<br>PE MWWWWWW<br>ET A A A A A A | Frequency                           |
| 1                |              |                  | Ref Offs           | et 9 9           | -                  | FGain:Low              | #Atte         | n: 40 dB             |              |                      |              | kr2 25.0               | 510 GHz   | Auto Tune                           |
| 29               | o dB.        | /div             | Ref Offs<br>Ref 30 | .00 d            | Bm                 | 1                      | -             | -                    | 1            |                      |              | -28.7                  | 76 dBm  | ConterFre                           |
| 2                | 20.0         | -                |                    |                  |                    |                        |               |                      | -            |                      |              |                        |   | Center Freq<br>13.015000000 GHz     |
|                  | 10.0         |                  | °'                 |                  |                    |                        | -             |                      |              |                      | 1            |                        |   | Start Freq                          |
| τ                | 0.00 -       |                  | -                  |                  |                    |                        | -             |                      |              |                      |              |                        |   | 30.000000 MHz                       |
|                  | 10.0         |                  |                    |                  |                    |                        |               |                      |              |                      |              |                        |   | Stop Freq<br>26.00000000 GHz        |
|                  | 20.0         | _                |                    |                  |                    |                        | -             |                      |              |                      | -            |                        | -25,00 • 3  | CF Step                             |
| .2               | - H          |                  | here               |                  | m                  |                        |               | and                  |              | man and              | مسبهم        | terterment             | - Minora  | 2.597000000 GHz<br>Auto Man         |
| 10<br>12         | 30.0         |                  |                    | 100              |                    | - former               | a grant       | -                    |              |                      |              |                        |   |                                     |
| -2<br>-3         | 40.0         | mon and          |                    |                  |                    |                        |               |                      |              |                      |              |                        |   | Freq Offset                         |
| 2<br>3<br>4<br>4 |              | and and a series |                    |                  |                    |                        |               |                      |              |                      |              |                        |   | Freq Offset<br>0 Hz                 |

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| EX7 P       | 1                   | m Andlyzer<br>RF S<br>eq 79.50 | 0 9 ALCC                         | 1                               | 58                     | NSE(INT]             | Avg Type              | ALIGNAUTO<br>RMS<br>9/100  | 11:59:58 AI               | MDec 21, 2018  | Frequency                       |
|-------------|---------------------|--------------------------------|----------------------------------|---------------------------------|------------------------|----------------------|-----------------------|----------------------------|---------------------------|--|---------------------------------|
|             |                     | Ref Offset<br>Ref 6.58         |                                  | PNO: Wide –<br>IFGain:Low       | #Atten: 1              | e Run<br>8 dB        | Avg Hold:             |                            | Mkr1 9.4                  | 423 kHz<br>25 dBm  | Auto Tune                       |
| -3 42       | 1                   |                                |                                  |                                 |                        |                      |                       |                            |                           |  | Center Fred<br>79.500 kHz       |
| -13.4       | i                   |                                |                                  |                                 |                        |                      |                       |                            |                           |  | Start Fred<br>9.000 kH          |
| -33.4       |                     |                                |                                  | -                               |                        |                      |                       |                            |                           |  | Stop Free<br>150.000 kH         |
| -43.4       |                     |                                |                                  |                                 |                        |                      |                       |                            |                           |  | CF Step<br>14.100 kHz           |
| -63 4       | 1 mars              | 10.                            |                                  | -                               | -                      |                      |                       |                            |                           |  | Auto Mar                        |
| -73.4       |                     | AN MOW                         | monung                           | WarNurAynyAy                    | Washing                | wanter               | warman                | Mana                       | Manuellant                | malute   | 0 Ha                            |
| Sta<br>#Re  | rt 9.00<br>s BW 1   |                                |                                  |                                 | V 3.0 kHz              |                      |                       | Sweep 1                    |                           | 1001 pts)  |                                 |
| Agilo       | L                   | m Analyzer<br>RF S             | DAMOC                            | 1                               | SE                     | NSEIINT              | Avg Type              | ALIGNAUTO                  | 12:00:03 P                | MDec 21, 2018  | Frequency                       |
|             |                     | Ref Offset                     | 10.58 dB                         | IZ<br>PNO: Fast →<br>IFGain:Low | Trig: Fre<br>#Atten: 1 | e Run<br>0 dB        | Avg Hold:             | 8/100                      | 1kr1 3.4                  | 04 MHz   | Auto Tune                       |
| 10 d<br>Log | B/div               | Ref 10.5                       |                                  |                                 |                        |                      |                       |                            | -00.2                     |  | Center Fred<br>15.075000 MHz    |
| -9.42       |                     |                                |                                  |                                 |                        |                      |                       |                            |                           |  | Start Fred<br>150.000 kHz       |
| -29.4       |                     |                                |                                  |                                 |                        |                      |                       |                            |                           |  | Stop Free<br>30.000000 MH;      |
| -39.4       |                     |                                |                                  |                                 |                        |                      |                       |                            |                           | -45.00 dBm   | CF Step<br>2.985000 MH:         |
| -59 4       |                     | ↑ <sup>1</sup>                 |                                  |                                 |                        |                      |                       |                            | 1                         |  | Auto Mar<br>Freq Offsel         |
| -79 4       | dallanter           | whythe                         | Artillanson                      | nt have been and                | . Wille be lines       | and the second state | as motion and         | and also and the set       | boutestan                 | til militalantic.  | 0 H:                            |
| Sta<br>#Re  | rt 150 k<br>Is BW 1 | Hz<br>10 kHz                   | . L. a Maine and a               | #VBI                            | N 30 kHz*              |                      | and and the former    | oweep a                    | Stop 3<br>68.3 ms (       | (too i pis)  |                                 |
| LK P        | L                   | m Andlyzer<br>RF S<br>eq 13.01 | 5wept 5A<br>0.0 AC  <br>50000000 | PNO: Fast -                     | Trig: Fre              | NSE:INT              | Avg Type<br>Avg]Hold: | ALIGN AUTO<br>RMS<br>4/100 | 12:00:06 Pl<br>TRAV<br>TY | MDec 21, 2018<br>TE 1 2 3 4 5 6<br>PE MWWWWWWWWW<br>ET A A A A A A | Frequency                       |
| 10 d        | B/div               | Ref Offset<br>Ref 30.0         | 9.98 dB<br>0 dBm                 | IFGain:Low                      | #Atten: 4              | 0 48                 |                       |                            | kr2 25.6                  | 36 GHz<br>22 dBm   | Auto Tune                       |
| 20.0        |                     | *                              |                                  |                                 |                        |                      |                       |                            |                           |  | Center Fred<br>13.015000000 GH: |
| 10.0        |                     |                                |                                  |                                 |                        |                      |                       |                            |                           |  | Start Free<br>30.000000 MH      |
| -10.0       |                     | +                              |                                  | -                               |                        |                      |                       |                            |                           |  | Stop Fred<br>26.00000000 GHz    |
| -20.0       |                     |                                |                                  |                                 |                        |                      | ~                     | مىدىرىد                    | -                         | -25.00 c 2   | CF Step<br>2.597000000 GH:      |
| -40.0       | man                 | - man                          | mann                             |                                 | and the second second  |                      |                       |                            | 1                         |  | Auto Mar<br>Freq Offset         |
| -60.0       |                     |                                |                                  |                                 |                        |                      |                       |                            |                           |  | 0 H:                            |
| 1.1.1.1     | rt 30 M             |                                |                                  |                                 |                        | 1                    |                       |                            | Dian 2                    | 6.00 GHz   |                                 |

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| LK/ R        | CL .           | RF<br>RF         | 50 2 1                       | DC [              | -1-                             | 5                      | ENGE:DVT ]      | Avg Typ<br>Avg[Hold  | ALIGN AUTIC       | 12:06:29 P<br>TRA  | MDec 15,2018<br>CE 1 2 3 4 5 6<br>PE M  | Frequency                                     |
|--------------|----------------|------------------|------------------------------|-------------------|---------------------------------|------------------------|-----------------|----------------------|-------------------|--------------------|---|---|
|              | IB/div         | Ref Off          | set 8 58                     | dB                | PNO: Wide +<br>FGain:Low        | Trig: Fre<br>#Atten: * | le Run<br>16 dB | Avg[Hold             |                   | Mkr1 9.            | 564 kHz<br>42 dBm   | Auto Tune                                     |
| -5.42        |                | -                |                              | -                 |                                 |                        |                 |                      |                   |                    |   | Center Fred<br>79.500 kH:                     |
| -15.4        |                |                  |                              |                   |                                 |                        |                 |                      |                   |                    |   | Start Fred<br>9.000 kH:                       |
| -35.4        | -              |                  |                              |                   |                                 |                        |                 |                      |                   |                    |   | Stop Free<br>150.000 kH;                      |
| -45.4        | 1              |                  |                              |                   |                                 |                        |                 |                      |                   |                    | -55.00 dBm  | CF Step<br>14.100 kHz                         |
| -65 A        | 1-<br>Manh     | Madle.           |                              | 1                 |                                 |                        |                 |                      |                   |                    |   | Auto Mar<br>Freq Offse                        |
| -85.4        |                | (                | comple                       | mandulary         | Mary My                         | When when the          | manyazar        | untrafficial.        | Whywe             | Magginga           | havalitates   | о H:  |
| #Re          | rt 9.00        | kHz<br>1.0 kHz   |                              |                   |                                 | W 3.0 KHz              |                 |                      | Sweep 1           | Stop 1:<br>74.0 ms | 50.00 kHz<br>(1001 pts)   |   |
| <br>Agilor   | L.             | um Analyza<br>RF | or - Swop<br>  50 9 <b>4</b> | i SA              | T                               | 5                      | PNSEIINT        | . 1.                 | ALIGN AUTO        | DC Co              | MDec 21, 2018   | Frequency                                     |
|              |                | Ref Off          | set 10.5                     | 1<br>8 dB         | r<br>PNO: Fast –<br>FGain:Low   | Trig: Fre<br>#Atten:   | e Run<br>10 dB  | Avg Typ<br>Avg Hold  | : 8/100           | Akr1 6.0           | 090 MHz   | Auto Tune                                     |
| 10 d<br>Log  | B/div          | Ref 10           | ).58 de                      | 3m                |                                 |                        |                 |                      |                   | -55.8              |   | Center Fred<br>15.075000 MH:                  |
| -9.42        |                |                  |                              |                   |                                 |                        |                 |                      |                   |                    |   | Start Free<br>150.000 kH                      |
| -19.4        | _              |                  |                              |                   |                                 |                        |                 | _                    |                   |                    |   | Stop Fred                                     |
| -39.4        | _              |                  |                              | 1                 |                                 |                        |                 |                      |                   |                    | -45.00 dBm  | 30.000000 MH:<br>CF Step<br>2.985000 MH:      |
| -59 4        | 100            | 1                | N <sup>PALINIAN</sup>        | whether the state |                                 |                        |                 | 1                    |                   |                    |   | Auto Mar                                      |
| -69.4        | Jackeybert     | manalad          |                              |                   | Windhauth                       | handled                | يريدون وتساريهم | . M.P.B. 1 - Journal | nai - longlant, a | Lacherton          | -   | 0 H:  |
| Star<br>#Re  | rt 150<br>s BW | kHz<br>10 kHz    |                              |                   |                                 | N 30 kHz               |                 | daarbo analo         | Sweep 3           | Stop 3<br>68.3 ms  | 0.00 MHz<br>(1001 pts)  | P   |
| <br>RKI B    | 1              | um Analyza<br>RF | 50.0                         | - 0C              | т                               | 5                      | ENSE: THAT      | udga.                | ALIGN ANTC -      | 5 12:00:41 P       |   | Frequency                                     |
|              |                | Ref Offe         |                              | 1                 | GHZ<br>PNO: Fast -<br>FGain:Low | Trig: Fre<br>#Atten: 4 | e Run<br>10 dB  | Avg Typ<br>Avg Hold  |                   |                    | MDec 21, 2018<br>CE 1 2 3 4 5 6<br>PE MUMANA<br>ET A A A A A A<br>662 GHz<br>57 dBm | Auto Tune                                     |
| 10 d<br>20 0 | B/div          | Ref 30           | ).00 di                      | 3m                |                                 |                        |                 |                      |                   | -28.6              | S/ aBm  | Center Free<br>13.015000000 GH:               |
| 10.0         | 1.1            | -01              | -                            |                   |                                 | -                      |                 | -                    |                   |                    |   | Start Free                                    |
| -10.0        |                |                  |                              |                   |                                 |                        |                 |                      |                   |                    |   | 30.000000 MH:<br>Stop Fred                    |
| -20.0        | -              |                  |                              |                   |                                 |                        |                 |                      |                   |                    | -25,00 c 3  | 26.00000000 GH:<br>CF Step<br>2.597000000 GH: |
| -40.0        | -              | man              |                              | www.              |                                 | mun                    | - Maria         | ~~                   |                   | a show the algos   | man   | <u>Auto</u> Mar                               |
| -50.0        |                |                  |                              |                   |                                 |                        |                 |                      |                   | 1                  |   | Freq Offse<br>0 H                             |
| -60.0        | -              | _                |                              |                   |                                 |                        |                 |                      |                   |                    |   |   |

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| LK R         | CL 1            | RF<br>RF<br>req 79.5 | SD 9 ADC             |                       |                         | SENSE: INT               | Avg Type              | RMS         | 11:59:36 A   | MDec 21, 2018<br>1 2 3 4 5 6                                    | Frequency                       |
|--------------|-----------------|----------------------|----------------------|-----------------------|-------------------------|--------------------------|-----------------------|-------------|--------------|---|---------------------------------|
|              |                 | Ref Offse<br>Ref 10. |                      | PNO: Wid<br>IFGain:Lo | a Trig: F<br>w #Atter   | ree Run<br>22 dB         | Avg Hold:             | 8/100       | kr1 12.      | 102 kHz<br>38 dBm   | Auto Tune                       |
| Log<br>0.580 | B/div           | Ref 10.              |                      |                       |                         |                          |                       | -           | UL.L         |   | Center Freq<br>79.500 kHz       |
| -9.42        |                 |                      |                      |                       | -                       |                          |                       |             |              |   | Start Freq<br>9.000 kHz         |
| -19.4        |                 |                      |                      |                       |                         |                          |                       |             |              |   | Stop Freq                       |
| -39.4        | -               |                      |                      |                       |                         |                          |                       |             |              |   | 150.000 kHz<br>CF Step          |
| -59 A        | 1               | -                    |                      |                       |                         |                          | -                     |             |              | -55 00 dBm  | 14.100 kHz<br>Auto Man          |
| -69.4        | (* Y W          | And Mark             | Manut                | many                  | empre All               | an man and               | apontup               | Autor       | Antetan      |   | Freq Offset<br>0 Hz             |
| #Re          | rt 9.00<br>s BW | kHz<br>1.0 kHz       |                      | #                     | /BW 3.0 KH              | 12*                      | al way were           | Sweep 1     | 4.0 ms (     | 1001 pts)   | _                               |
| LKI R        | CL.             | um Andiyzor<br>RF    | SDRADC               |                       |                         | SENSE: INT               | u ku e                | ALISN AUTO- | L DC Col     | MDec 21, 2018   | Consultant                      |
|              |                 | Ref Offse            | -                    | PNO: Fas<br>IFGain:Lo | Trig: F<br>#Atter       | ree Run<br>: 10 dB       | Avg Type<br>Avg Hold: |             | kr1 3.4      | 04 MHz  | Frequency<br>Auto Tune          |
| 10 d         | B/div           | Ref 10.              | t 10.58 dB<br>58 dBm |                       |                         |                          |                       |             | -71.0        | 40 dBm  | Center Freq<br>15.075000 MHz    |
| -9.42        | ł               |                      |                      | -                     | -                       | -                        |                       |             | 1            |   | Start Freq<br>150.000 kHz       |
| -19.4        |                 | _                    |                      |                       |                         |                          |                       |             |              |   | Stop Freq                       |
| -39.4        |                 |                      |                      |                       |                         |                          |                       |             |              | -45,00 dBm  | 30.000000 MHz<br>CF Step        |
| -59.4        |                 |                      | _                    | -                     |                         |                          |                       |             |              | 1.14  | 2.985000 MHz<br>Auto Man        |
| -69.4        | hilling         | manufact.            |                      |                       |                         |                          |                       |             |              | 1-1.  | Freq Offset<br>0 Hz             |
| Sta          | rt 150<br>s BW  | KHZ<br>10 KHZ        | alter her hidered    | terstations           | Numrytallu<br>/BW 30 KH | hibubya/hipacalant<br>zn | (opforr)doewedde<br>i | aweep o     | 0.5 ms (     | (too i pis)   |                                 |
| LK R         | CL.             | um Analyzor<br>RF    | 50 g AC              | DO GHZ                |                         | SENSE: INT               | Avg Type              |             | 111:59:44 Al | MDec 21, 2018<br>TE 1 2 3 4 5 6<br>PE MWWWWWW<br>ET A A A A A A | Frequency                       |
| 10           | B/div           | Ref Offse<br>Ref 30. | t 9.98 dB            | PNO: Fas<br>IFGain:Lo | Trig: F<br>#Atter       | ree Run<br>:: 40 dB      | Avg Type<br>Avg Hold: |             | r2 25.6      | 62 GHz  | Auto Tune                       |
| 20.0         |                 |                      |                      |                       |                         |                          |                       |             |              |   | Center Freq<br>13.015000000 GHz |
| 10.0         |                 | <b>1</b>             |                      |                       |                         |                          |                       |             |              |   | Start Freq<br>30.000000 MHz     |
| -10.0        |                 |                      |                      | _                     |                         |                          |                       |             |              |   | Stop Freq<br>26.000000000 GHz   |
| -20.0        | -               |                      |                      |                       |                         |                          |                       |             |              | -25.00 e 2  | CF Step<br>2.597000000 GHz      |
| -40.0        | University of   | - hung               | mm                   | -                     |                         | man mar                  |                       |             |              |   | Auto Man                        |
| -50.0        |                 |                      |                      |                       |                         |                          |                       |             |              |   | 0 Hz                            |
| 60.0         | -               |                      |                      |                       |                         |                          |                       |             |              |   |                                 |

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| 100       | RL               | RE              | 79.500                                    |              | PNO: Wide +                    | Trig: Fre  |                      | Avg Type<br>Avg]Hold: | ALIGN AUTO                | 12:00:15 PM<br>TRAC              | Dec 21,2018<br>1 2 3 4 5 6<br>E MUMUUUU<br>T A A A A A A  | Frequency                         |
|-----------|------------------|-----------------|---|--------------|--------------------------------|--|----------------------|-----------------------|---------------------------|----------------------------------|---|-----------------------------------|
| 10        | dB/div           | Re              | Offset 1                                  |              | PNO: Wide<br>IFGain:Low        | #Atten: 6  | dB                   | Availation.           |                           | kr1 15.9                         | 09 kHz<br>33 dBm  | Auto Tune                         |
| -3 4      | 1                | 1               |   |              |                                |  |                      |                       |                           |                                  |   | Center Freq<br>79.500 kHz         |
| -13       |                  |                 |   |              |                                |  |                      |                       |                           |                                  |   | Start Freq<br>9.000 kHz           |
| -33       |                  |                 |   |              |                                |  |                      |                       |                           |                                  |   | Stop Freq<br>150.000 kHz          |
| -63       |                  | _               |   |              |                                |  |                      |                       |                           |                                  | -SS-60 dDm  | CF Step<br>14.100 kHz<br>Auto Man |
| -63       | 4                | 1               |   |              |                                |  |                      |                       |                           | 1                                |   | Freq Offset                       |
| -83       |                  |                 |   | hour         | antipliture                    | Montput  | MANAA                | month                 | nminn                     | W/WWWW                           | www.www.www.w   |                                   |
| Sta<br>#R | art 9.0<br>es BV | 0 kHz<br>V 1.0  | kHz                                       |              | #VB                            | W 3.0 kHz  | •                    | 4                     | Sweep 1<br>status         | Stop 15<br>74.0 ms (<br>1 DC Cou |   |                                   |
| 2.80      | RL               | RE              | 15.075                                    |              | z                              | and the second s | NSEITNT              | Avg Type<br>Avg Hold: | ALIGN AUTO                | 12:00:21 PM<br>TRAC              | Dec 21,2018<br>1 2 3 4 5 6<br>MWWWWWW<br>7 A A A A A A    | Frequency                         |
| 10        | dB/div           | Re              | Offset 1<br>f 10.58                       |              | PNO: Fast -                    | #Atten: 1  | 0 dB                 | Avginola.             |                           | lkr1 3.4                         | 04 MHz<br>35 dBm  | Auto Tune                         |
| 0.58      | 1                |                 |   |              |                                |  |                      |                       |                           |                                  |   | Center Freq<br>15.075000 MHz      |
| -9.4      |                  |                 |   |              |                                |  |                      |                       |                           | 1                                |   | Start Freq<br>150.000 kHz         |
| -29       |                  | -               |   |              |                                |  |                      |                       |                           | -                                |   | Stop Freq<br>30.000000 MHz        |
| -39       | -                |                 |   |              |                                |  |                      |                       |                           |                                  | -45.00 dBm  | CF Step<br>2.985000 MHz           |
| -59       | 1.0              |                 | 1   |              |                                |  |                      |                       |                           |                                  |   | Auto Man<br>Freq Offset           |
| -79       | 4 Willion        | +lunger         | 1   | handyamation | enter and the second           | espolatellaritie   | chamber and planting | expension in the      | an manager and the second | Anna langa da ka                 | unglan ange   | 0 Hz                              |
| Sta<br>#R | art 15<br>es BV  | 0 KHZ<br>V 10 K | 1. S. |              |                                | W 30 KHZ*  |                      |                       | Sweep 3                   | Stop 3                           | 0.00 MHz<br>1001 pts)                                     |                                   |
| 1,10      | RL               | R               | diyzor 5<br>50<br>13.015                  | A 96         | GHz                            | 52   | NSEITNT              | Avg Type<br>Avg Hold: |                           |                                  | IDec 21, 2018<br>Е 1 2 3 4 5 6<br>Е МУЖИМИ<br>Т А А А А А | Frequency                         |
|           |                  | Re              | Offset S                                  | .98 dB       | GHZ<br>PNO: Fast<br>IFGain:Low | #Atten: 4  | e Run<br>0 dB        | Avg Hold:             |                           | r2 25.6                          | 36 GHz<br>48 dBm  | Auto Tune                         |
| 20        | dB/div           |                 |   |              |                                |  |                      |                       |                           |                                  |   | Center Freq<br>13.015000000 GHz   |
| 10.       |                  | -               | 1   |              |                                |  |                      |                       |                           |                                  |   | Start Freq<br>30.000000 MHz       |
| -10.      |                  |                 |   |              |                                |  |                      |                       |                           |                                  |   | Stop Freq<br>26.00000000 GHz      |
| -20       | -                |                 |   |              |                                |  |                      |                       |                           | artestan, and                    | -25.00 + 2  | CF Step<br>2.59700000 GHz         |
| -40       |                  | _               | m   | man          | manner                         | -  |                      |                       | *****                     |                                  |   | Auto Man<br>Freq Offset           |
| -50       | 1                | _               |   |              |                                |  |                      |                       |                           |                                  |   | 0 Hz                              |
|           |                  |                 |   |              | -                              |  |                      |                       |                           |                                  | 6.00 GHz<br>1001 pts)                                     |                                   |

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| ŝ.        | opt SA<br>A⊡⊂<br>kHz | i i     |                      |     |                   | SEMISE:           | DØTI   |         | 1                  | LIGN AUT | 10. I  | 12:06:391  | MDec 15,201                             | Frequency                   |
|-----------|----------------------|---------|----------------------|-----|-------------------|-------------------|--------|---------|--------------------|----------|--------|------------|---|-----------------------------|
| 1         | KHZ                  | P       | NO: Wid              |     | Trig: F<br>#Atter | ree Ru            | m      | Ave     | g Type:<br>g Hold: | B/100    |        | T          | CE 12345<br>PE MMMMM<br>ET A A A A A    | 2                           |
| 3.5<br>dE | ie dB<br>Sm          |         |                      |     |                   | 11.12             |        |         |                    |          | Mk     |            | 243 kH<br>55 dBr                        |                             |
|           |                      |         |                      |     |                   |                   |        |         |                    |          |        |            |   | Center Fr<br>79.500 k       |
|           |                      |         | -                    | _   |                   | -                 |        |         |                    | -        |        |            |   |                             |
| _         |                      | -       | -                    | _   | -                 | -                 |        | -       |                    | -        | -      |            |   | Start Fr<br>9.000 k         |
|           |                      | -       | -                    | -   | -                 |                   |        | -       |                    | 17       |        | -          |   | Stop Fr<br>150.000 k        |
|           |                      |         |                      |     |                   |                   |        |         |                    |          |        |            | -55.00 de                               |                             |
|           |                      |         |                      |     |                   |                   |        |         |                    |          |        |            |   | Auto N                      |
|           |                      |         | -                    |     |                   |                   |        |         |                    |          |        |            | 1                                       | FreqOffs                    |
| art       | MMM                  | whe     | Mur                  | Way | why May           | mps               | MM     | MAA     | mym                | ww       | Why    | wwglight   | man                                     | 0<br>M                      |
| ļ         |                      |         |                      | _   | -                 | 10                | U.     | 1       |                    |          |        | Stop 1     | 50.00 KH                                | z                           |
|           |                      |         | #\                   | BW  | 3.0 KH            | lz*               |        |         | s                  |          | 174    | DC Co      | (1001 pts                               | =) [                        |
| 9         | opi SA               |         | -1                   |     |                   | SENSE:            | INT    | 1       | 1, 2               | LIGN ANT | 6 1    | 12:00:54 8 | MDec 21, 201                            | Frequency                   |
|           | 000 N                | P<br>IF | NO: Fast<br>Gain:Lov | ~   | Trig: F<br>#Atter | ree Ru<br>10 de   | 3      | Avs     | g Type:<br>g Hold: | B/100    |        |            | ET A A A A A                            | 1                           |
| 10.<br>d  | .58 dB               | 3       | _                    |     | 1                 |                   |        | _       |                    |          | Mk     | -56.2      | 26 dBr                                  |                             |
|           |                      |         |                      |     | -                 |                   |        | -       |                    | -        |        | -          |   | Center Fr<br>15.075000 M    |
|           |                      |         | -                    | -   |                   | -                 | -      | -       |                    | -        | -      | -          |   | Start Fr                    |
| -         | -                    | -       | -                    | -   | -                 | -                 | -      | -       | -                  | -        | +      |            |   | 150.000 k                   |
| 1         |                      |         |                      |     |                   |                   |        |         |                    | -        |        |            |   | Stop Fr<br>30.000000 M      |
|           |                      | _       |                      |     |                   |                   |        | -       |                    |          |        |            | -45.00 dB                               | CESt                        |
| her       | ALL HAN              |         |                      |     |                   |                   |        |         | _                  |          |        |            |   | 2.985000 M<br>Auto          |
|           |                      | M       |                      |     |                   |                   | -      |         |                    |          |        |            |   | Freq Offs                   |
|           |                      | -       | la ar i              |     | 1.1.4             |                   |        |         |                    |          |        | da ko      | ad do not                               | -                           |
|           |                      | -       |                      |     | 1000              |                   | ##54K) | P))Phil |                    | 1        |        | Stop 3     |   | z                           |
|           |                      |         | #\                   | 600 | 30 kH             | <i>C</i> .        |        |         |                    |          |        | DC Co      | (1001 pts<br>upled                      | 9 L                         |
| Ĥ.        | pt 5A<br>AC          | 00 6    | SHZ                  |     |                   | SENSE:            | INT    | Av      | g Type:            | RMS      | 6 1    | 12:00:57 F | MDec 21,201<br>CE 1 2 3 4 5<br>PE MWWWW | 6 Frequency                 |
|           |                      | P       | NO: Fast<br>Gain:Lov |     | Trig: F<br>#Atter | ree Ru<br>: 40 de | 3      | Avs     | g Type:<br>g Hold: |          |        |            | DOO GH                                  | A                           |
| 9.9<br>d  | 8 dB                 | 4       | -                    |     | _                 |                   |        | 1       |                    |          |        | -28.7      | 73 dBr                                  |                             |
|           |                      | _       | -                    | -   | -                 |                   | -      | -       |                    | -        |        | -          |   | Center Fr<br>13.015000000 G |
|           | -                    |         |                      | -   |                   | -                 |        | -       |                    | 1        | -      | -          |   | Start Fr                    |
|           |                      | _       |                      |     |                   |                   |        |         |                    |          |        |            |   | 30.000000 M                 |
|           |                      |         |                      |     |                   |                   |        |         |                    |          |        |            |   | Stop Fr<br>26.00000000 G    |
|           |                      |         |                      |     |                   |                   |        |         |                    |          |        |            | -25,00 c ;                              | CF St<br>2.597000000 G      |
| ~         | , man                | white   |                      | ma  | -                 | -                 | -      | and     | n me               | men      | marris | man        | - Vine a                                | 2,597000000 G<br>Auto N     |
|           | -                    |         |                      |     | _                 |                   | -      |         |                    |          |        |            |   | Freq Offs                   |
|           | 1                    |         |                      | _   |                   |                   |        |         |                    |          | -      |            |   |                             |
|           |                      | _       | -                    |     |                   |                   |        | 1       |                    |          |        |            |   |                             |

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| LK/ F      | CL .                | RF 50<br>90 79.500        | S VDC    | 1                        | Trig: Fre             | e Bur           | Avg Type<br>Avg[Hold | ALIGNAUTIC   | 12:06:53 PI<br>TRAC | MDec 15,2018<br>CE 1 2 3 4 5 6<br>PE MMMMMM<br>ET A A A A A A               | Frequency  |
|------------|---------------------|---------------------------|----------|--------------------------|-----------------------|-----------------|----------------------|--------------|---------------------|---|--|
| 10 d       | B/div               | Ref Offset 8<br>Ref 8.58  |          | PNO: Wide +<br>FGain:Low | #Atten: 2             | 2 dB            | an ionu              |              | Mkr1 9.4            | 423 kHz<br>28 dBm   | Auto Tune  |
| -1.42      |                     |                           |          |                          |                       |                 |                      |              |                     |   | Center Freq<br>79.500 kHz                                    |
| -11.4      |                     |                           |          |                          |                       |                 |                      |              |                     |   | Start Freq<br>9.000 kHz                                      |
| -31.4      |                     |                           |          |                          |                       |                 |                      |              |                     |   | Stop Freq<br>150.000 kHz                                     |
| -41,4      | -1                  |                           |          |                          |                       |                 |                      |              |                     | -SS.00 dBm  | CF Step<br>14.100 kHz<br>Auto Man                            |
| -61 4      | Mann                | Madrat                    | 0. A. YA |                          |                       |                 |                      |              |                     |   | FreqOffset   |
| 61.4       |                     | .A.A.Aw                   | WARNAN   | why have                 | whiteway              | Hormer All Mar  | new should           | www.haw      | Kalinna             | monor   | 0 Hz   |
| Sta<br>#Re | rt 9.00 H<br>s BW 1 | HZ                        |          |                          | W 3.0 kHz             |                 |                      | Sweep 1      | Stop 1:             | 50.00 kHz<br>(1001 pts)   |  |
| EX7 F      | CL.                 | RF 50                     | 5000 MH2 |                          | and the second second | MGE:D\$T]       | Avg Typ              | ALIGNAUTIO   | 12:06:50 0          | MDec 15,2018<br>CE 1 2 3 4 5 6<br>PE M WAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA | Frequency  |
|            |                     | Ref Offset 8              | 4        | PNO: Fast +<br>FGain:Low | #Atten: 1             | e Run<br>0 dB   | Avg[Hold             |              | Mkr1 1.8            | 81 MHz<br>89 dBm  | 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                                   |
| -41.4      |                     |                           |          |                          |                       |                 |                      |              |                     | -45.00 dBm  | CF Step<br>2.985000 MHz                                      |
| -61 4      | •                   |                           |          |                          |                       |                 |                      |              |                     |   | Auto Man<br>Freq Offset                                      |
| -81.4      | -                   | here with the             | -        | Manatatatist             | ally replay have      | physicalitation | n.                   |              | ne-triveneellayen   | And whether whether   | 0 Hz   |
| Sta<br>#Re | rt 150 k<br>s BW 1  | Hz<br>0 KHz               |          | -                        | W 30 KHz*             |                 |                      | Sweep 3      | Stop 3              | 0.00 MHz<br>(1001 pts)  |  |
| LK/ F      | KL I                | n Analyzor - S<br>RF - S0 | AC AC    | GH7                      | 1                     | MEE:D\$T]       |                      | ALIGN AUTIO  | 12:07:02 P          | MDec 15, 2018   | Frequency  |
| 10         |                     | Ref Offset 1<br>Ref 30.00 |          | PNO: Fast +<br>FGain:Low | #Atten: 4             | e Run<br>0 dB   | Avg Type<br>Avg[Hold |              | kr2 25.6            | 36 GHz  | Auto Tune  |
| 20.0       | B/div               | Ref 30.00                 |          |                          |                       |                 |                      |              |                     |   | Center Freq<br>13.015000000 GHz                              |
| 10.0       | 1.1.1               | 0 <sup>1</sup>            |          |                          |                       |                 |                      |              |                     |   | Start Freq<br>30.000000 MHz                                  |
| -10.0      | 11 11               |                           |          |                          |                       |                 | -                    |              |                     |   | Stop Freq  |
| -20.0      | -                   |                           |          |                          |                       |                 |                      |              |                     | -25.00 00-  | 26.000000000 GHz   |
| -40.0      | man                 | him                       | man      | -                        | Marrisonand           |                 | - and the second     | and a second |                     | m   | CF Step<br>2.597000000 GHz<br><u>Auto</u> Man<br>Freq Offset |
| -50.0      | 1                   |                           |          |                          |                       |                 |                      |              |                     |   | 0 Hz   |
|            |                     |                           |          |                          |                       |                 |                      |              |                     |   |  |

| LK RL                   | Freq 79.500                | a Vac I   |                                     | EPI6E(DgT)           | ALIGN AU<br>Avg Type: RMS<br>Avg[Hold: 8/100 | TIC 12:07:34             | MDec 15, 2018<br>CE 1 2 3 4 5 6<br>CPE MMMMMM<br>ET A A A A A A | Frequency  |
|-------------------------|----------------------------|-----------|-------------------------------------|----------------------|--|--------------------------|---|--|
| 10 dB/div               | Ref Offset 8               | PNO       | : Wide Trig: Fr<br>sin:Low #Atten:  | ee Run<br>22 dB      | Avg Hold: 8/100                              | Mkr1 9                   | 987 kHz<br>66 dBm   | Auto Tune  |
| -1 42                   |                            |           |                                     |                      |  |                          |   | Center Fred<br>79.500 kH   |
| -11.4                   |                            |           |                                     |                      |  |                          |   | Start Fred<br>9.000 kHz  |
| -21.4                   |                            |           |                                     |                      |  |                          |   | Stop Fred  |
| -41.4                   |                            |           |                                     |                      |  |                          |   | 150.000 kH   |
| -61 4 1                 |                            |           |                                     |                      |  |                          | -55.00 dBm  | 14,100 kHz<br>Auto Mar   |
| -71.4 MAY               | Margan                     | Vannannan | Marchard Mar MA                     |                      | - 61 4 4                                     | 10 4                     |   | Freq Offsel<br>0 Ha  |
| -01 4<br>Start 9.0      | 0 kHz                      |           | manageneration                      | M. W. M. Maran       | Kura Wandar And                              | Stop 1                   | 50.00 KHZ   |  |
| #Res BW                 | N 1.0 kHz                  | -         | #VBW 3.0 kHz                        | 2*                   | Sweep  | 174.0 ms                 | (1001 pts)  |  |
| LK RL                   | Freq 15.075                | 000 MHz   | D: Fast Trig: Fr<br>sin:Low #Atten: | ee Run               | ALIGN AU<br>Avg Type: RMS<br>Avg[Hold: 8/100 | TO 12:07:391<br>TR/<br>T | MDec 15,2018<br>CE 1 2 3 4 5 6<br>CPE MVMMMMM<br>ET A A A A A A | Frequency  |
| 10 dB/div               | Ref Offset 8<br>Ref 8.58 c | .58 dB    | iin:Law #Atten:                     | 10 dB                | 1  | Mkr1 7.                  | 105 MHz<br>13 dBm   | Auto Tune  |
| -1 42                   |                            |           |                                     |                      |  | -                        |   | Center Frec<br>15.075000 MH  |
| -11.4                   |                            |           |                                     |                      |  | 1                        |   | Start Fred<br>150.000 kHz  |
| -31.4                   |                            |           |                                     |                      |  |                          |   | Stop Fred  |
| -41.4                   | _                          |           |                                     |                      |  | -                        | -45.00 dBm  | 30.000000 MH2<br>CF Step   |
| -61_4                   |                            | 1         |                                     |                      |  |                          |   | 2.985000 MHz<br>Auto Mar   |
| -71.4                   | a hour devictor where      |           |                                     |                      |  |                          |   | Freq Offsel<br>0 Ha  |
| 814 17                  |                            | - inde    | and Ulabaran and an anglish and     | introduction and the | indulated and a constants                    | J 92. 3 11               | 104 MANAMAN   |  |
| #Res BW                 | V 10 kHz                   |           | #VBW 30 kHz                         | *                    |  | 368.3 ms                 | (1001 pts)  | -  |
| LOO RL                  | Freq 13.015                | 000000 GH | 1z<br>D: Fast →→→ Trig: Fr          | ense ogt)<br>ee Run  | ALIGN AU<br>Avg Type: RMS<br>Avg[Hold: 4/100 | ТО 12:07:42<br>ТКИ<br>Г  | MDec 15,2018<br>CE 1 2 3 4 5 6<br>CPE MVMVMMV                   | Frequency  |
| 10 dB/div               | Ref Offset 7<br>Ref 30.00  | IFGa      | in:Low #Atten:                      | 40 dB                |  | Mkr2 25.                 |   | Auto Tune  |
| 20.0                    |                            |           |                                     |                      |  |                          |   | Center Fred<br>13.015000000 GH                                       |
| 10.0                    | 1                          |           |                                     |                      |  | 1                        |   | Start Free<br>30.000000 MHz  |
|                         |                            |           |                                     |                      |  |                          |   | Stop Free  |
| -10.0                   |                            |           |                                     |                      |  |                          |   | 26.00000000 GH   |
| -10.0                   |                            |           |                                     |                      |  | -                        | -25.00 -2   |  |
| -10.0                   |                            |           |                                     | aparta               | ~~~~   | manin                    | -25.00 cm   | CF Step<br>2.597000000 GH2<br><u>Auto</u> Mar                        |
| -10.0<br>-20.0<br>-30.0 | and the second             | 4         |                                     |                      | ~~~~   | ~~~~~                    | -25.00 cm   | CF Step<br>2.597000000 GH2<br><u>Auto</u> Mar<br>Freq Offsel<br>0 H2 |

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| 0   | O RI         | ter Fre             | RF                  | 50 2 1            | DC I   | -1-                           | 1 0                 | SENSE:DAT]       | Ave Tur             | ALIGNAUTO      | 12:08:12 PM                                | 40ec 15,2018                          | Frequency                             |
|-----|--------------|---------------------|---------------------|-------------------|--|-------------------------------|---------------------|------------------|---------------------|----------------|--|---------------------------------------|---------------------------------------|
|     | Jen          | ler Fre             | iq 79.5             | JUU K             | nz<br>IF   | NO: Wide -<br>Gain:Low        | Trig: Fi            | ree Run<br>10 dB | Avg Typ<br>Avg[Hold |                |  | E 123456<br>E MMMMM<br>T A A A A A A  | In an arrest                          |
| 1   | IO dE        | B/div               | Ref Offs<br>Ref 8.5 | et 8,58           | dB   |                               | 1.0                 |                  |                     | N              | 1kr1 28.<br>-62.1                          | 176 kHz<br>51 dBm                     | Auto Tune                             |
|     | 1.42         |                     | -                   |                   | -  |                               |                     |                  |                     |                |  |                                       | Center Free<br>79.500 kHz             |
|     | 11.4         | -                   |                     |                   |  | -                             | -                   | -                | -                   |                |  |                                       | Start Fred                            |
|     | 21.4         |                     |                     |                   |  |                               |                     |                  |                     |                |  |                                       | 9.000 kHz                             |
|     | 41.4         |                     |                     |                   |  |                               |                     |                  |                     |                |  |                                       | Stop Fred<br>150.000 kHz              |
| -   | 61.4         |                     |                     |                   |  |                               |                     |                  |                     |                |  | -55.00 dBm                            | CF Step<br>14,100 kHz                 |
|     | 61 4         | Norther             | Ang Av              | 1<br>Virantel     | A an ma  | A Ama                         | numum               | Marahan          | Manaprille          | mar Mar All    | NINAMA                                     | UNMANNA                               | Auto Mar                              |
| - 1 | 71.4<br>01.4 | A IAN               | di fe               | 1 x 2004 . 11     | Mart   | Westw                         | ad lass the s       | An AN IA.        | A free lit > be     | ain define     | dine - 10 M                                | . It. al ad                           | Freq Offset<br>0 Ha                   |
|     | 3.1          |                     |                     |                   |  |                               |                     |                  |                     | 1              |  | 0.00.4445                             |                                       |
| #   |              | t 9.00 k<br>s BW 1. | 0 kHz               |                   |  | #VB                           | W 3.0 KH            | Z*               |                     |                | 74.0 ms (                                  |                                       |                                       |
| 0   | C RI         | t Spectrum          | RF                  | 50 2 1            | DC   | -1                            | . 17                | SENSEDUT         |                     | ALION ALITO    | 12:08:17 PM                                | 4Dec 15,2018                          | Fragueseu                             |
| C   | Cen          | ter Fre             | q 15.0              | 07500             | I MHz  | NO: Fast +<br>Gain:Low        | Trig: Fi<br>#Atten: | ree Run<br>10 dB | Avg Typ<br>Avg[Hold |                | TRAC                                       | E 123456<br>E MMMMMM<br>T A A A A A A | Frequency<br>Auto Tune                |
| 2   | o de         | B/div               | Ref Offs<br>Ref 8.5 | et 8.58           | dB<br>m  | -                             | -                   | -                |                     | N              | /kr1 3.9<br>-54.3                          | 71 MHz<br>12 dBm                      |                                       |
|     | 1.42         |                     |                     |                   | _  |                               |                     | -                | -                   |                |  |                                       | Center Frec<br>15.075000 MH           |
|     | 11.4         |                     |                     |                   | 1.   |                               |                     | 1                |                     |                | -  |                                       | Start Fred                            |
|     | 31.4         |                     |                     |                   |  |                               |                     |                  |                     |                |  |                                       |                                       |
|     | 41.4         |                     |                     |                   |  |                               |                     |                  |                     |                |  | -45.00 dBm                            | Stop Free<br>30.000000 MH2            |
| -   | 61.4         | . diadaa            | 1<br>1              |                   |  | -                             |                     | 2                |                     |                |  |                                       | CF Step<br>2.985000 MHz<br>Auto Mar   |
|     | 61.4         | New Contract        | te di citta         | and the second    | anticipation of the second s | and a count                   | with marking        | nul muximiques   | en source state     | and the second | Ar-White Mary Ma                           | PankingPhyle                          | FreqOffse                             |
|     | 61.4         |                     |                     |                   |  |                               |                     |                  |                     |                |  |                                       | 0 Ha                                  |
|     |              | t 150 ki            | Hz                  |                   | 1  |                               |                     |                  |                     | -              | Stop 3                                     | 0.00 MHz                              | S                                     |
| #   | Res<br>SG    | s BW 1              | 0 kHz               |                   | _  | #VB                           | W 30 KH2            | z*               |                     |                | 168.3 ms (                                 | 1001 pts)                             |                                       |
| 0   | RI           | t Spectrum          | RE                  | 50 9              | AC   | 1                             | 1                   | SEM6E(D)[T]      | Aug Tur             | ALIGN AUTO     | 12:09:20 PM                                | 40ec 15,2018                          | Frequency                             |
| c   | en           | ter Fre             |                     |                   | IF   | SHZ<br>NO: Fast -<br>Gain:Low | Trig: Fi<br>#Atten: | ree Run<br>40 dB | Avg Typ<br>Avg[Hold |                | 12:08:20 PM<br>TRAC<br>TY<br>I<br>Kr2 25.7 |                                       | Auto Tune                             |
| 1   | o de         | B/div               | Ref Offs<br>Ref 30  | et 7.98<br>.00 dE | dB<br>3m   | -                             | -                   | -                | 1                   | 101            | -30.6                                      | 04 dBm                                |                                       |
|     | 20.0         |                     | -                   |                   |  | -                             |                     | -                | -                   |                | -  |                                       | Center Fred<br>13.015000000 GH        |
|     | 10.0         | 1.0                 | 41                  |                   |  |                               |                     |                  |                     | 1              | 1  |                                       | Start Free<br>30.000000 MHz           |
|     | 10.00        |                     |                     |                   |  |                               |                     |                  |                     |                |  |                                       | a horizon h                           |
| į.  | 20.0         |                     | +                   |                   | -  |                               | -                   |                  | -                   |                |  | -25.00 07                             | 26.00000000 GH                        |
|     | 30.0         |                     |                     |                   |  | -                             |                     |                  |                     |                | Lunner                                     | man                                   | CF Step<br>2.59700000 GHz<br>Auto Mar |
|     | 40.0         | manner              | alson 4             |                   | the same   | and and and and               | -                   |                  | and the state       |                |  |                                       | FreqOffse                             |
|     |              |                     |                     |                   |  | -                             | -                   | 1                |                     | -              |  |                                       | OH                                    |
|     | 50.0<br>60.0 |                     |                     |                   |  |                               |                     |                  | -                   |                |  |                                       | 011                                   |

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| EXC F      | RL        | RF<br>RF<br>req 79.5 | 50 2 ADC              |                                  | 55   | MGE:D§T]         | Avg Type                  | ALIGN AUTIC       | 12:07:14 P       | MDec 15,2018<br>E 1 2 3 4 5 6                            | Frequency                              |
|------------|-----------|----------------------|-----------------------|----------------------------------|--|------------------|---------------------------|-------------------|------------------|--|--|
|            |           |                      |                       | PNO: Wide -<br>IFGain:Low        | Trig: Fre<br>#Atten: 2   | e Run<br>2 dB    | Avg[Hold:                 | 9/100             |                  | 282 kHz  | Auto Tune                              |
| 10 g       | B/div     | Ref Offse<br>Ref 8.5 | t 8.58 dB<br>8 dBm    |                                  | -  |                  |                           |                   |                  | 39 dBm   |  |
| -1.42      | 2         | -                    |                       |                                  |  |                  |                           |                   | _                |  | Center Freq<br>79.500 kHz              |
| -11.4      | á         | _                    |                       | -                                | -  |                  | -                         |                   | -                |  | -                                      |
| -21.4      | 4         | _                    |                       |                                  | _  |                  |                           |                   |                  |  | Start Freq<br>9.000 kHz                |
| -31.4      | 4         | _                    |                       | -                                | -  |                  |                           |                   |                  |  | Stop Freq                              |
| -41.4      | 4         | _                    |                       | -                                | -  | -                |                           |                   |                  |  | 150.000 kHz                            |
| -51.4      | 4         | _                    |                       | _                                |  |                  |                           |                   |                  | -55.00 dBm   | CF Step<br>14.100 kHz                  |
| -61 4      | 1         |                      |                       | -                                | _  | -                |                           |                   |                  |  | <u>Auto</u> Man                        |
| -71.4      | a Manya   | www.waly             | An almant .           |                                  |  | -                |                           |                   | -                |  | Freq Offset<br>0 Hz                    |
| -81.4      | 4         |                      | As a character of the | a hundry                         | Melandra   | way hower        | PAR MANAN                 | MMM               | Multitud         | Anterman   |  |
| Sta        | rt 9.00   | kHz                  |                       | 1                                | L.   |                  | . 4 1                     | 100 100           | Stop 15          | 0.00 KHz   | ·                                      |
| #Re<br>MSG | es BW     | 1.0 kHz              |                       | #VB                              | W 3.0 kHz'   |                  |                           | Sweep 1           | 74.0 ms (        | 1001 pts)  |  |
| 2 M 2 F    | RL        | um Analyzor<br>RF    | 50 9 A DC             |                                  | S.F  | NGE:DAT!         |                           | ALIGN AUTO        | 12:07:19 0       | 4Dec 15,2018   |  |
| Cer        | nter F    | req 15.0             | 75000 MH              | Z<br>PNO: Fast +<br>IFGain:Low   | A DOMESTIC AND A DOMESTICANA AND A DOMESTICANA AND A DOMESTIC AND A DOMESTIC AND A DOMESTICANA AND A DOMESTIC AND A DOMESTI | e Run            | Avg Type<br>Avg[Hold:     | : RMS<br>8/100    | TRAC<br>TYL<br>D | E 123456<br>PE MUMUUUU<br>T A A A A A A                  | Frequency                              |
| 10 d       | B/div     | Ref Offse<br>Ref 8.5 | t 8.58 dB<br>8 dBm    | I Gam.Edw                        |  |                  |                           | N                 | lkr1 7.1         | 05 MHz<br>85 dBm   | Auto Tune                              |
| -1.42      | 2         |                      |                       |                                  |  |                  |                           |                   |                  |  | Center Freq<br>15.075000 MHz           |
| -i1.4      | á         |                      |                       | -                                |  |                  |                           |                   |                  |  |  |
| -21.4      | 4         |                      |                       | 1                                |  |                  |                           |                   | 1                |  | Start Freq<br>150.000 kHz              |
| -31.4      | 4         |                      |                       |                                  |  |                  |                           |                   |                  |  | Stop Freq                              |
| -41.4      | 4         |                      |                       |                                  | _  |                  |                           |                   |                  | -45.00 dBm   | 30.000000 MHz                          |
| -61_4      | 4         |                      |                       | -                                |  | -                |                           |                   | -                | and the second   | CF Step<br>2.985000 MHz                |
| -61 4      | 4         | -                    |                       | -                                |  |                  | 1                         |                   |                  | 1.14   | Auto Man                               |
| -71.4      | 4         |                      | •                     | -                                |  |                  |                           |                   | -                |  | Freq Offset<br>0 Hz                    |
| -01.4      | a spaning | Manyhanyha           | shitted the longer    | the a                            |  | 10000            | a for a first sector      | 6. 6. 6. 7.       | Sec. 1           |  | 0 112                                  |
| Sta        | rt 150    | kHz                  | -1 ( )                | watering                         | rapositivedata   | political prover | -hutter and and and and a | adal way a second | Stop 3           | 0.00 MHz   | ·                                      |
|            | es BW     | 10 kHz               |                       | #VB                              | W 30 kHz*  |                  | - 8                       | Sweep 3           | 68.3 ms (        | 1001 pts)  |  |
| EDC F      | RL .      | um Analyzer<br>RF    | 50 g AC               |                                  | SE   | PIGE:D\$T]       |                           | ALIGN AUTO        | 12:07:22 PF      | 40ec 15,2018   | Community                              |
| Cer        | nter F    | req 13.0             | 15000000              | GHZ<br>PNO: Fast *<br>IFGain:Low | Trig: Fre<br>#Atten: 4   | e Run<br>0 dB    | Avg Type<br>Avg[Hold:     | : RMS<br>4/100    | TRAC<br>TYL<br>D | 4Dec 15,2018<br># 1 2 3 4 5 6<br># MMMMMM<br># A A A A A | Frequency                              |
| 10 0       | B/div     | Ref Offse<br>Ref 30. | t 7.98 dB             |                                  |  |                  |                           |                   | Kr2 25.6         | 62 GHz<br>52 dBm   | Auto Tune                              |
| 0.00       |           |                      |                       |                                  |  |                  | 1                         |                   | 1 1 1            |  | Center Freq                            |
| 20.0       |           | 1                    |                       |                                  |  |                  |                           |                   |                  |  | 13.015000000 GHz                       |
| 10.0       | 1.1       | 8                    |                       |                                  |  |                  |                           |                   | j                |  | Start Freq<br>30.000000 MHz            |
| 0.00       | 1.1       |                      |                       |                                  |  |                  |                           |                   |                  |  |  |
| -10.0      |           |                      |                       |                                  |  |                  |                           |                   |                  |  | Stop Freq<br>26.000000000 GHz          |
| -20.0      | -         |                      |                       |                                  |  |                  |                           |                   |                  | -25.00   | CF Step                                |
| -30.0      | 1.1.2     |                      | 1                     |                                  |  |                  | mo                        | man               | mu               | mant   | CF Step<br>2.597000000 GHz<br>Auto Man |
| -40.0      | m         | - the                | -                     |                                  | and the second states  |                  |                           | 1.11              | 1.1              | 1.1  | Freq Offset                            |
| -50.0      | 1         |                      |                       |                                  |  |                  |                           | 1 - 1             |                  |  | 0 Hz                                   |
| -60.0      | -         |                      |                       |                                  |  |                  |                           |                   | 1.1              |  |  |
|            |           |                      |                       |                                  |  |                  |                           |                   |                  |  |  |

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| 00                | RL                            | RF 50                                 | 2 ADC  | 1                         | Trig: Fre                  | MGE(D§T)          | Avg Type<br>Avg[Hold: | ALIGN AUTIC                | 12:07:54 PM<br>TRAC        | 10ec 15,2018<br>= 1 2 3 4 5 6<br>= My 4 4 4 4 4<br>T 4 4 4 4 4 4 4 | Frequency                                     |
|-------------------|-------------------------------|---------------------------------------|--|---------------------------|----------------------------|-------------------|-----------------------|----------------------------|----------------------------|--|---|
| 10.5              | dB/div                        | Ref Offset 8                          | 3.58 dB<br>dBm                                 | PNO: Wide ↔<br>IFGain:Low | #Atten: 2                  | 2 dB              | Avginoid.             |                            | Vikr1 9.8                  | 846 kHz<br>26 dBm  | Auto Tune                                     |
| -1.4              | 1                             |                                       |  |                           |                            |                   |                       |                            |                            |  | Center Freq<br>79.500 kHz                     |
| -11-              |                               |                                       |  | -                         |                            |                   |                       |                            |                            |  | Start Freq<br>9.000 kHz                       |
| -31.              |                               |                                       |  |                           |                            |                   |                       | 1 . 1                      |                            |  | Stop Freq<br>150.000 kHz                      |
| 61                | 1                             |                                       |  |                           |                            |                   |                       |                            |                            | -55.00 dBm   | CF Step<br>14.100 kHz<br>Auto Man             |
| -61 -             | - white                       | MAMAA                                 | A . D  | 0                         |                            |                   |                       |                            |                            |  | Freq Offset<br>0 Hz                           |
| -81 -             | 4                             |                                       | NAN WANNAN I                                   | whenever                  | Aronora                    | n Millian         | innamatha             | manuman                    | aren Amphy                 | ny hanna   |   |
| Sta<br>#Re<br>MSG | es BW 1                       | (Hz<br>.0 kHz                         |  |                           | W 3.0 kHz'                 |                   |                       | Sweep 1                    |                            | 1001 pts)  |   |
| 1.00              | nt Spectru<br>RL<br>Inter Fre | n Analyzer S<br>RF S0<br>eq 15.07     | ₩ept 5A<br><sup>©</sup> <u>A</u> ¤C<br>5000 MH | Z<br>PNO: Fast at         | SE<br>Trig: Fre            | NSE:DIT           | Avg Type<br>Avg[Hold: | LIGNAUTO<br>: RMS<br>8/100 | 12:07:59 PM<br>TRAC<br>TYT | 10ec 15,2018<br>E 1 2 3 4 5 6<br>E MMMMMM<br>T A A A A A A         | Frequency                                     |
| 10 :              | dB/div                        | Ref Offset 8                          | 8.58 dB  | PNO: Fast<br>IFGain:Low   | #Atten: 1                  | 0 dB              |                       |                            | lkr1 1.8                   | 81 MHz<br>56 dBm   | Auto Tune                                     |
| -1.4              |                               |                                       |  | -                         |                            |                   |                       |                            |                            |  | Center Freq<br>15.075000 MHz                  |
| -01-              |                               |                                       |  |                           |                            |                   |                       |                            |                            |  | Start Freq<br>150.000 kHz                     |
| -31.              |                               |                                       |  | -                         |                            |                   |                       |                            |                            |  | Stop Freq<br>30.000000 MHz                    |
| -41 -             |                               |                                       |  | -                         |                            |                   |                       |                            |                            | 45,00 dBm  | CF Step<br>2.985000 MHz                       |
| -61 -             | •                             |                                       |  |                           |                            |                   | 1                     |                            |                            |  | Auto Man<br>Freq Offset                       |
| -01 -             | a myddinallel                 | moundadrassi.                         | tenning  | 4.<br>Maurovynegu         | antimatic lipitudine state | ranklypergraphics |                       | www.hinanathan             | handrand                   | had you have a series  | 0 Hz  |
| Sta<br>#Re        | art 150 k<br>es BW 1          | Hz<br>0 kHz                           |  | #VB                       | V 30 kHz*                  | L. C. C. C.       | 1.                    | Sweep 3                    | Stop 3<br>68.3 ms (        | 1001 pts)  |   |
| 1 1 1 1           | RI                            | n Andlyzer - S<br>RF - S0<br>eq 13.01 | 5000000  | GHz                       | 55                         | MGE:D§T]          | Avg Type<br>Avg[Hold: |                            |                            | 10ec 15,2018<br>E 1 2 3 4 5 6<br>E MWWWWW<br>T A A A A A A         | Frequency                                     |
| 13                |                               | Ref Offset 7                          |  | PNO: Fast H<br>IFGain:Low | Trig: Fre<br>#Atten: 4     | e Run<br>0 dB     | Avg Hold:             |                            |                            | 48 GHz<br>53 dBm   | Auto Tune                                     |
| 20.1              |                               |                                       |  |                           |                            |                   |                       |                            |                            |  | Center Freq<br>13.015000000 GHz               |
| 10.0              | 1.1.1                         | 0 <sup>1</sup>                        |  |                           |                            |                   |                       |                            |                            |  | Start Freq<br>30.000000 MHz                   |
| -10.0             |                               |                                       |  | -                         |                            |                   |                       |                            |                            |  | Stop Freq                                     |
| -20.0             | -                             |                                       |  |                           |                            |                   |                       |                            |                            | -25.00 -2  | 26.00000000 GHz<br>CF Step<br>2.597000000 GHz |
| -40.0             | -                             | hanne                                 | mon  |                           |                            | and the second    | monu                  | maner                      | www.                       | and have a los   | Auto Man<br>Freq Offset                       |
| -50.0             |                               |                                       |  |                           | · · · · · ·                |                   | 1                     |                            |                            |  | 0 Hz  |
| -60.0             |                               |                                       |  |                           |                            |                   |                       |                            |                            |  |   |

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FCC ID: 2ADTE-S80

Report No.: LCS181130005AEG

| Cer         | L                    | RF 50                      | S VDC I        | -1                      | SE            | tsE:D≬T]    | Avg Type                 |                   | 12:08:27 PM                | 10ec 15,2018   | Frequency  |
|-------------|----------------------|----------------------------|----------------|-------------------------|---------------|-------------|--------------------------|-------------------|----------------------------|--|--|
| Cer         | iter rite            | sq 73.500                  | KIIZ           | PNO: Wide               | #Atten: 10    | Run<br>dB   | Avg Type:<br>Avg[Hold: S |                   |                            | E 123456<br>E MMMMM<br>T A A A A A A                       |  |
| 10 d        | B/div                | Ref Offset 6<br>Ref 8.58 d | 158 dB         |                         |               |             |                          | Mki               | -63.6                      | 398 kHz<br>08 dBm  | Auto Tune  |
| -1.42       |                      | 1                          | 1              |                         |               |             | 1                        | 1 1               |                            | 11   | Center Free  |
| 1.5         | 1                    |                            |                |                         |               |             |                          | 1.1               |                            | 1  | 79.500 kH  |
| -11.4       |                      |                            |                |                         |               |             |                          |                   | J                          |  | Start Free<br>9.000 kH   |
| -31.4       |                      |                            |                |                         |               |             | 1                        |                   |                            |  |  |
| 41.4        |                      |                            |                |                         |               |             |                          | 1.1               |                            |  | Stop Free<br>150.000 kH  |
| -51.4       |                      |                            |                |                         |               |             | 1                        |                   |                            |  | CF Step  |
| -61.4       |                      |                            |                |                         |               |             | 2                        | 1.1               |                            | -35.00 45m   | 14,100 kH<br>Auto Mar  |
| -71.4       | howall               | MAMMAN                     | MANNA          | ANNO DANN               | WAYN MANY     | mound       | mannann                  | MayAmp            | 1 May May 1                | Muranit  | FreqOffse  |
| -61.4       | 1.00                 | Y 1 9                      | 1.1            | 1                       |               |             |                          |                   |                            | <b>y</b>   | он   |
| 101         | 1                    |                            | 1.000          | 1                       |               |             |                          | 121               |                            |  |  |
| Star<br>#Re | rt 9.00 H<br>IS BW 1 | .0 kHz                     |                | #VBV                    | 3.0 kHz*      |             | s                        |                   | '4.0 ms (                  | 0.00 kHz<br>1001 pts)                                      |  |
| MISIG       |                      | - Analasa - S              |                |                         |               |             |                          | STATUS            | 1 DC Cou                   | pled   |  |
| LC R        | L L                  | RF 50<br>RF 50<br>RF 50    | ODO MH         | z                       | SEP           | BERNIT      | Avg Type:                | RMS               | 12:00:33 PM<br>TRAC        | 1Dec 15,2018   | Frequency  |
|             |                      |                            |                | PNO: Fast<br>IFGain:Low | #Atten: 10    | dB          | Avg[Hold: 8              |                   |                            | 72 MHz   | Auto Tun   |
| 10 d<br>Log | B/div                | Ref Offset 6<br>Ref 8.58   | 18m            |                         |               | _           |                          |                   | -55.73                     | 39 dBm   | and the second s |
| -1.42       |                      | -                          | -              |                         |               |             |                          | 1                 |                            | 11   | Center Free<br>15.075000 MH  |
| -11.4       | 1                    |                            |                |                         |               |             |                          |                   |                            |  |  |
| -21.4       |                      |                            |                | 1                       |               |             |                          |                   |                            |  | Start Free<br>150.000 kH   |
| -31.4       | _                    |                            |                | -                       |               |             |                          |                   |                            |  | Stop Free  |
| -41.4       |                      |                            |                | _                       |               |             |                          |                   |                            | -45.00 dBm   | 30.000000 MH   |
| -61.4       |                      | A1-                        |                |                         |               |             |                          |                   | _                          |  | CF Ster<br>2.985000 MH   |
| -61.4       | alardian             | rubal front being          | which which we | ntalischer metale       | La let tod. h |             | A lea rud / Lie          |                   | Lat. Lill . Lis. in        | a. M. Colab  | Auto Mar   |
| -71.4       |                      | -                          |                | Mad as bits i shirt     | ANT MILAN KAL | A MANA MANA | LAULACIANIAN             | A Markle Mark     | and the the                | LAND NULVILLA  | Freq Offse   |
| -01.4       |                      |                            |                | -                       |               |             |                          |                   |                            |  | он   |
| Star        | rt 150 k             | 42                         | 1              |                         |               |             |                          |                   | Stop 3                     | 0.00 MHz   |  |
|             | s BW 1               |                            |                | #VBV                    | V 30 kHz*     |             | s                        |                   |                            | 1001 pts)  |  |
| Agilo       | nt Spectru           | n Analyzor - S             | wept 5A        |                         |               |             |                          |                   |                            |  |  |
| Cer         | nter Fre             | eq 13.015                  |                | PNO: Fast               | Trig: Free    | Run         | Avg Type:<br>Avg[Hold: 4 | RMS<br>1/100      | 12:09:36 PM<br>TRAC<br>TYP | 10ec 15,2018<br>E 1 2 3 4 5 6<br>E MMMMMM<br>T A A A A A A | Frequency  |
|             |                      | Ref Offset 7<br>Ref 30.00  |                | IFGain:Low              | #Atten: 40    | dB          |                          |                   | r2 25.7                    | 66 GHz   | Auto Tun   |
| 10 d<br>Log | B/div                | Ref 30.00                  | dBm            | 1                       |               |             | 1                        | _                 | -30.73                     | 57 dBm   | Center Free  |
| 20.0        | -                    |                            |                | -                       |               |             |                          |                   |                            |  | 13.015000000 GH  |
| 10.0        |                      | 01                         | -              |                         | -             | _           |                          |                   |                            | 1.00   | Start Free   |
| 0.00        |                      | 1                          |                | -                       |               |             |                          |                   |                            |  | 30.000000 MH   |
| -10.0       |                      | -                          |                | -                       |               |             |                          |                   |                            |  | Stop Free  |
| -20.0       | -                    |                            |                | -                       |               |             |                          |                   |                            | -25.00 20-   | 26.000000000 GH  |
| 30.0        | -                    |                            |                | -                       |               |             |                          |                   |                            | munter   | CF Ster<br>2.597000000 GH  |
| -40.0       | ware war             | man                        | num            | vernandans              | mener         | ser         | man                      | - Marian - Marian |                            |  | <u>Auto</u> Mar  |
| -50.0       |                      |                            | -              | 2                       |               |             |                          |                   | _                          |  | Freq Offse   |
| -60.0       |                      |                            |                |                         |               |             |                          |                   |                            |  |  |
|             |                      |                            |                |                         |               |             |                          |                   | 1.11                       | 1.1.1.1.1.1  |  |
| Star        | 1 30 MI              | Hz<br>.0 MHz               |                | -                       | V 3.0 MHz     | -           | -                        |                   | Stop 2                     | 6.00 GHz<br>1001 pts)                                      |  |

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| DO RL                 | rum Analyzer - Swe<br>RF - 50 2<br>req 79.500 F | DEC I                | 1 5                             | Ave<br>Ave   | ALIGNAUTO<br>Type: RMS<br>Hold: 8/100 | 12:08:50 PM<br>TRAC                                     | 10ec 15,2018<br>E 1 2 3 4 5 6<br>E My Manufacture<br>T A A A A A A A | Frequency                          |
|-----------------------|---|----------------------|---------------------------------|--|---------------------------------------|---|--|------------------------------------|
| 102                   | Ref Offset 8.5<br>Ref 8.58 dE                   | PNO: W<br>IFGain:    | Aido Trig: Fre<br>Low #Atten: 2 | eRun Avg<br>2 dB   |                                       | Akr1 10.1   |  | Auto Tune                          |
| 10 dB/div             |   |                      |                                 |  |                                       |   |  | Center Freq<br>79.500 kHz          |
| -11.4                 | -   |                      |                                 |  |                                       |   |  | Start Freq<br>9.000 kHz            |
| -31.4                 |   |                      |                                 |  | _                                     |   |  | Stop Freq<br>150,000 kHz           |
| -41.4                 | -   |                      |                                 |  |                                       |   | -:55.00 dBm  | CF Step<br>14.100 kHz              |
| -61 4 YM A            | A A. a.   |                      |                                 |  |                                       |   |  | Auto Man<br>Freq Offset            |
| -71.4                 | the Mary My My Mary                             | monormany            | my wanter                       | hand   | mannutur                              | human   | MARANNA  | 0 Hz                               |
| #Res BW               |   |                      | #VBW 3.0 kHz                    |  | Sweep 1                               | 174.0 ms (  | 0.00 kHz<br>1001 pts)  | ·                                  |
| MSG<br>Agilent Spectr | RF 50 9   | ptSA<br>NDC          | 1 55                            | NGE(DAT)   | ALIGNAUTO                             | F 12:08:55 PM   | 10ec 15, 2018  | Frequency                          |
| Center F              | Ref Offset 8.5                                  | PNO: F<br>IFGain:    | ast Trig: Fre<br>Low #Atten: 1  | eRun Avg<br>0 dB   | Type: RMS<br>Hold: 8/100              | Mkr1 7.7  | 92 MHz   | Auto Tune                          |
| 10 dB/div             | Ref Offset 8.5<br>Ref 8.58 dE                   | im .                 |                                 |  |                                       | -64.78  | 88 dBm   | Center Freq<br>15.075000 MHz       |
| -11.4                 | -   |                      |                                 |  | -                                     |   |  | Start Freq                         |
| -21.4                 |   |                      |                                 |  |                                       |   |  | 150.000 kHz<br>Stop Freq           |
| -41.4                 | _   |                      |                                 |  |                                       |   | -45,00 dBm   | 30.000000 MHz<br>CF Step           |
| -61.4                 |   |                      |                                 |  | _                                     |   | 1.1  | 2.985000 MHz<br><u>Auto</u> Man    |
| -71.4                 | -   | showing musicipality | Harberradue 1                   | ter tera   |                                       |   |  | Freq Offset<br>0 Hz                |
| Start 150<br>#Res BW  | kHz   |                      | #VBW 30 kHz*                    | and of some stand in the second s |                                       | 1   | 0.00 MHz   |                                    |
| 2 M R I               | rum Analyzer - Swe                              | 00                   |                                 | 54512-D471   |                                       | F 🦺 DC Cou  | pled   |                                    |
| Center F              | Ref Offset 7.9<br>Ref 30.00 d                   | PNO: F<br>IFGain:    | ast Trig: Fre<br>Low #Atten: 4  | e Run Avg<br>0 dB  | Type: RMS<br>Hold: 4/100              | 12:08:58 PM<br>TRAC<br>JYP<br>08<br>14r2 25.8<br>-30.55 |  | Frequency<br>Auto Tune             |
| 20 dB/div             | Ref 30.00 d                                     | Bm                   |                                 |  |                                       | -30.59  | 94 dBm   | Center Freq<br>13.015000000 GHz    |
| 10.0                  | 1   |                      |                                 |  | -                                     |   |  | Start Freq                         |
| -10.0                 |   |                      |                                 |  |                                       |   |  | 30.000000 MHz<br>Stop Freq         |
| -20.0                 |   |                      |                                 |  |                                       |   | -25.00 -2  | 26.000000000 GHz                   |
| -30.0                 | mun   | anima                | www.                            | man  | m                                     | m   | Man  | 2.597000000 GHz<br><u>Auto</u> Man |
| -40.0                 |   |                      |                                 |  |                                       |   |  | Freq Offset                        |
| 1211                  |   |                      |                                 |  |                                       |   |  | 0 Hz                               |

| Agilent Spectrum Analyzer Swe<br>20 RL RF 90 2<br>Center Freq 79.500 F | APC 1 SE   |  | 12:09:30 PMDec 15, 2018<br>TRACE 1 2 3 4 5 6   | Frequency                              |
|--|--|--|--|--|
| 10 dB/div Ref 8.58 dB  | PNO: Wide Trig: Fre<br>IFGain:Low #Atten: 2  | Avg Type: RMS<br>e Run Avg[Hold: 9/100<br>2 dB | Mkr1 9.141 kHz<br>-64.030 dBm  | Auto Tune                              |
| -1.42  |  |  |  | Center Freq<br>79.500 kHz              |
| -11.4  |  |  |  | Start Freq<br>9.000 kHz                |
| -31.4  |  |  |  | Stop Freq<br>150.000 kHz               |
| -61_4  |  |  | -:S5.00 dBm  | CF Step<br>14.100 kHz                  |
| -61 4 1<br>-71 4 MAAMAMAA  |  |  |  | Auto Man<br>Freq Offset                |
| 101 4 The American March   | Mummun Jowen Marine  | a publication to the program the second        | Mapapapa and M   | 0 Hz                                   |
| Start 9.00 kHz<br>#Res BW 1.0 kHz                                      | #VBW 3.0 kHz   | Sweep  | Stop 150.00 kHz<br>174.0 ms (1001 pts)   | i 1                                    |
| Agient Spectrum Analyzer - Swe<br>WRL RF 50 2<br>Center Freq 15.0750   |  |  | 12:09:35 PMDec 15, 2018  | Frequency                              |
| Ref Offset 8.5   | PNO: Fast Trig: Fre<br>IFGain:Low #Atten: 1<br>58 dB   | e Run Avg[Hold: 8/100<br>0 dB                  | Mkr1 7.792 MHz<br>-64.720 dBm  | Auto Tune                              |
| 10 dB/div Ref 8.58 dB  | sm   |  | -04.720 UBIN   | Center Freq<br>15.075000 MHz           |
| -11.4  |  |  |  | Start Freq<br>150.000 kHz              |
| -21.4  |  |  |  | Stop Freq                              |
| -41,4  |  |  | -45.00 dBm   | 30.000000 MHz<br>CF Step               |
| -61.4  | •'   |  |  | 2.985000 MHz<br>Auto Man               |
| -71.4  | for an   |  |  | Freq Offset<br>0 Hz                    |
| Start 150 kHz<br>#Res BW 10 kHz  | #VBW 30 kHz*   | Sweep  | Stop 30.00 MHz<br>368.3 ms (1001 pts)  |  |
| MSG<br>Agilent Spectrum Analyzer - Swe<br>XX RL RF 50 g                | AC   |  | DC Coupled   | Frequency                              |
| Center Freq 13.0150<br>Ref Offset 7.9                                  | IFGain:Low #Atten: 4   |  | 12:09:38 PMDec 15, 2018<br>TRACE 1 2 3 4 5 6<br>TYPE A & A & A & A<br>DET A & A & A & A<br>MKr2 25.688 GHz | Auto Tune                              |
| 10 dB/div Ref Offset 7.9<br>Ref 30.00 d                                | IBm  |  | -30.391 dBm  | Center Freq<br>13.01500000 GHz         |
| 10.0   |  |  |  | Start Freq                             |
| -10.0  |  |  |  | 30.000000 MHz<br>Stop Freq             |
| -20.0  |  |  | -25.00 07  | 26.000000000 GHz                       |
|  | the section  | manne  | and mit  | CF Step<br>2.597000000 GHz<br>Auto Man |
| -40.0  | and the second and the second second   |  |  |  |
| Contraction of the contract  | and a second and a |  |  | Freq Offset<br>0 Hz                    |

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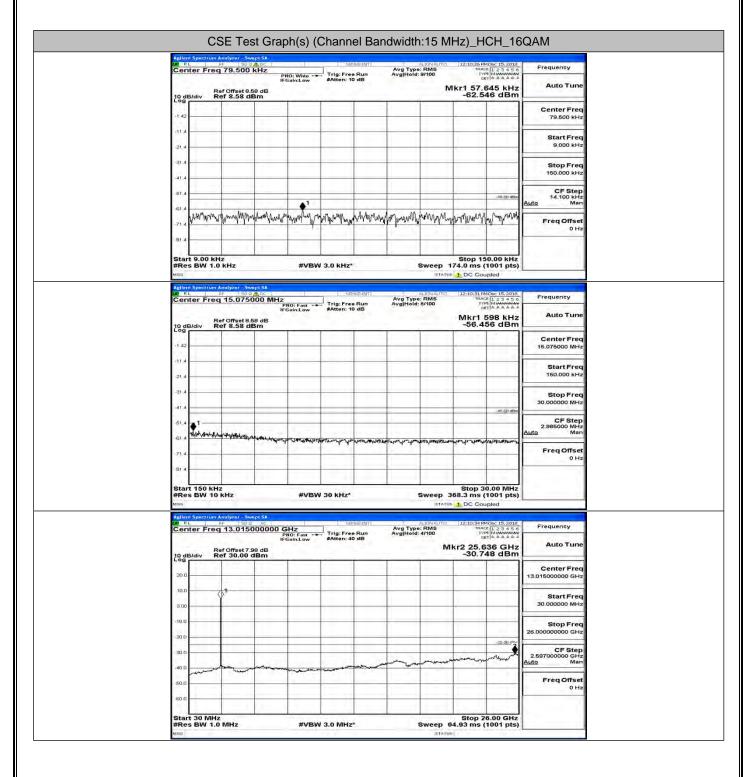
| EXC F                   | RL                     | RF 9                   | D D D D D D D D D D D D D D D D D D D    |                                | SEM                      | E:D§T]                 | Avg Type:<br>Avg[Hold: | RMS                       | 12:10:10 PF<br>TRAC                          | 40ec 15,2018<br>1 2 3 4 5 6                    | Frequency                                      |
|-------------------------|------------------------|------------------------|--|--------------------------------|--------------------------|------------------------|------------------------|---------------------------|--|--|--|
|                         |                        | Ref Offset<br>Ref 8.58 | 8.58 dB                                  | PNO: Wide ↔<br>FGain:Low       | Trig: Free<br>#Atten: 10 | dB                     | AABIHold:              |                           | lkr1 55.                                     | 953 kHz<br>14 dBm                              | Auto Tune                                      |
| -1.40                   | 1.000                  |                        |  |                                |                          |                        |                        |                           |  |  | Center Freq<br>79.500 kHz                      |
| -11.4                   | i                      |                        |  | -                              |                          |                        | _                      |                           |  |  | Start Freq<br>9.000 kHz                        |
| -21.4                   |                        |                        |  |                                |                          |                        |                        |                           |  |  | Stop Freq                                      |
| -41.4                   |                        |                        |  |                                |                          |                        |                        |                           |  |  | 150.000 kHz<br>CF Step                         |
| -61 -                   | Man                    | MM                     | MMMM                                     | an maline                      | how when                 | Al. Amm                | M.M.M.N.N              | Mundre                    | Angua May                                    | antin MA IN                                    | 14,100 kHz<br>Auto Man                         |
| -71.4                   | 4                      |                        | ( p - p                                  | 110                            |                          | ν τγ , i               | ι.w. γ.γ.              | u / ş                     | A 1.88                                       | No the   | Freq Offsel<br>0 Hz                            |
| Sta                     | art 9.00 k<br>es BW 1. | Hz<br>0 kHz            |  | #VBI                           | V 3.0 kHz*               |                        | 5                      | weep 1                    | Stop 15<br>74.0 ms (                         | 0.00 kHz<br>1001 pts)                          |  |
| Agila                   | nt Spectrur<br>RL      | n Analyzer             | Swept SA                                 |                                |                          | Danti                  |                        | STATUS                    | DC Cou                                       | pled   |  |
|                         | nter Fre               |                        |  | Z<br>PNO: Fast ↔<br>IFGain:Low | Trig: Free<br>#Atten: 10 | Run<br>dB              | Avg Type:<br>Avg[Hold: | 8/100                     | TRAC   | 96 MHz   | Frequency<br>Auto Tune                         |
| 10 g                    | B/div                  | Ref Offset<br>Ref 8.58 | 8.59 dB<br>dBm                           | -                              |                          | -                      | - 1                    |                           | -54.9  | 89 dBm   | Center Freq                                    |
| -1.45                   |                        |                        |  | -                              |                          |                        |                        |                           |  |  | 15.075000 MHz                                  |
| -21,4                   | <u>ن</u> ــــــ        |                        |  |                                |                          |                        |                        |                           |  |  | Start Freq<br>150.000 kHz                      |
| -31.4                   | 4                      |                        |  |                                |                          |                        |                        |                           |  |  | Stop Freq<br>30.000000 MHz                     |
| -51.4                   | s<br>shawa in          | Late at                |  |                                |                          |                        |                        |                           |  | -45,00 dBm                                     | CF Step<br>2.985000 MHz<br>Auto Man            |
| -61 -                   | 1                      | and de adarada         | - Anter Contraction of the second second | kinerateratories               | May to a fact starts     | elational and a second | Hulhalinein            | 4,144,194,74146           | to whether in some                           | origatyphysis                                  | Freq Offset                                    |
| -81.4                   |                        |                        |  |                                |                          |                        |                        |                           |  |  |  |
| Sta<br>#Re              | es BW 1                | Hz<br>0 kHz            |  | #VBV                           | W 30 kHz*                |                        | s                      |                           | Stop 3<br>68.3 ms (                          | 0.00 MHz<br>1001 pts)                          |  |
| 2.007                   | RL                     | RF Si<br>aq 13.01      | 5000000                                  | GHz<br>PNO: Fast →             | Trig: Free               |                        | Avg Type:<br>Avg[Hold: | LIGNAUTIO<br>RMS<br>4/100 | 12:10:18 PF<br>TRAC<br>TYL                   | 4Dec 15,2018<br>E 1 2 3 4 5 6<br>M 4 4 4 4 4 4 | Frequency                                      |
| 10.5                    | B/div                  | Ref Offset<br>Ref 30.0 |  | PNO: Fast -                    | #Atten: 40               | đB                     |                        |                           | kr2 25.6                                     | 88 GHz<br>08 dBm                               | Auto Tune                                      |
| 20.1                    |                        | -                      |  |                                |                          |                        |                        |                           |  |  | Center Freq<br>13.015000000 GHz                |
| 10.1                    | 1.1.1                  | Q1                     |  |                                |                          |                        |                        |                           | <u>j                                    </u> |  | Start Freq<br>30.000000 MHz                    |
|                         | 11 11                  | -                      |  |                                |                          | _                      |                        | -                         |  |  | Stop Freq                                      |
| -10.0                   |                        | -                      |  |                                |                          | _                      |                        |                           |  | -25.00 0                                       | 25.000000000 GHz<br>CF Step<br>2.597000000 GHz |
| -10.0                   | -                      |                        |  |                                | -                        |                        |                        |                           |  |  | 2.597000000 GHz                                |
| -10.0                   |                        | - Sau har              |  |                                | manun                    | mann                   | and a second           | المحجور استر              | and an an an                                 | mar  | <u>Auto</u> Man                                |
| -10.0<br>-20.0<br>-30.0 |                        | and States lynnym      | _  | ana na na na                   |                          | Mar and and            | in the second          | المحجور والمستمير         | and the second                               | Jun Wess                                       | Auto Man<br>Freq Offsel<br>0 Hz                |

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| 2.00      | RL      | Trum Anal<br>RF  | 50 1                | ADC I                  | 1                       | 1         | SENSEIDS                 | 1              | Avg Type:                | LIGN AUTIO            | 12:09:10       | MDec 15,2018  | Frequency                       |
|-----------|---------|------------------|---------------------|------------------------|-------------------------|-----------|--------------------------|----------------|--------------------------|-----------------------|----------------|---|---------------------------------|
| Ce        | nter    | Freq 7           | 9.500               |                        | PNO: Wide<br>IFGain:Low | Tris      | : Free Run<br>ten: 22 dB | á              | vg[Hold: 9               | 9/100                 |                | CE 123456<br>CPE MUMUUUU<br>DET A A A A A A                     | la la constal                   |
| 19)       | dB/div  | Ref              | offset 8.<br>8.58 d | 58 dB<br>Bm            |                         |           |                          |                |                          | M                     | -64.7          | 525 kHz<br>35 dBm   | Auto Tune                       |
| -1.4      | 1       |                  |                     |                        | -                       |           | _                        |                |                          |                       |                |   | Center Freq<br>79.500 kHz       |
| -11       |         |                  |                     |                        |                         |           |                          |                |                          |                       |                |   | Start Freq<br>9.000 kHz         |
| -31       | 1       |                  |                     |                        | -                       |           |                          |                |                          |                       |                |   | Stop Freq                       |
| -41       | 4       |                  |                     |                        |                         |           |                          |                |                          |                       |                |   | 150.000 kHz<br>CF Step          |
| -61       |         |                  |                     |                        | -                       |           |                          |                |                          |                       |                | -55.00 dBm  | 14.100 kHz<br>Auto Man          |
| -71       |         | Mar May          | Annaly              | Morrishand             | a harring harring har   | hunght    | pp-tr-mhym               | -Andreading to | manne                    | . ANAAN               | 1.0.00         |   | Freq Offset<br>0 Hz             |
| Sta       | int 9.0 | 0 KHZ            |                     |                        |                         |           |                          | , in all he    |                          |                       | Stop 1         | M/ www.   |                                 |
| Web       |         | V 1.0 KH         |                     |                        | #V                      | BW 3.0    | n/14                     |                | 5                        |                       | 14.0 ms        | (1001 pts)<br>upled   | L                               |
| 100       | RL      | Freq 1           | 50 9                |                        | Z                       | - Trie    | SENSEIN                  | 1              | Avg Type:<br>avg Hold: 8 | RMS                   | 12:09:15 F     | MDec 15,2018<br>CE 1 2 3 4 5 6<br>PE MMMMMM<br>ET A A A A A A   | Frequency                       |
| 10        | dB/div  | Ref C            | offset 8.<br>8.58 d |                        | PNO: Fast<br>IFGain:Low | #At       | ten: 10 dB               |                |                          |                       | Akr1 5.4       | 493 MHz<br>58 dBm   | Auto Tune                       |
| -1.4      |         |                  |                     |                        | -                       |           |                          |                |                          |                       |                | 1   | Center Freq<br>15.075000 MHz    |
| -11       | á       |                  | -                   |                        |                         |           |                          |                |                          |                       | ]              |   | Start Freq<br>150.000 kHz       |
| -31       | 4       | -                | -                   |                        | -                       | -         |                          |                |                          | -                     |                |   | Stop Freq                       |
| -41       | 4       |                  |                     |                        |                         | -         | -                        | -              | _                        |                       |                | -45,00 dBm  | 30.000000 MHz<br>CF Step        |
| -61       | 4       |                  |                     | 1                      |                         |           |                          |                |                          |                       |                | 1.1.6.6   | 2.985000 MHz<br>Auto Man        |
| -71       | 4       | man              | whend               |                        |                         |           |                          |                |                          |                       |                |   | Freq Offset<br>0 Hz             |
| -61       | 4 Parte | MALAR NO.        | a. Section.         | A PERSONAL PROPERTY OF | and and an and          | andhindel | miphaliphis              | der ramaren    | andietype                | hunderlywyd           | Massessed      | University  |                                 |
| Sta<br>#R |         | 0 KHZ<br>V 10 KH |                     |                        |                         | BW 30 H   |                          |                |                          | weep 3                | Stop .         | (1001 pts)  |                                 |
| 1.00      | RL      | Fred 1           | 50 9                | AC                     | GHZ                     | 1         | SENSEIDS                 | 1              | Ava Type:                |                       | 12:09:18 F     | MDec 15,2018<br>CE 1 2 3 4 5 6<br>CPE MWWWWW<br>SET A A A A A A | Frequency                       |
| 18        |         | Ref              | Offset 7:<br>30.00  |                        | PNO: Fast<br>IFGain:Low | #At       | : Free Run<br>ten: 40 dB | A              | Avg Type:<br>vg Hold: 4  |                       | kr2 25.0       | 636 GHz   | Auto Tune                       |
| 20        | dB/div  | Ref              | 30.00               | dBm                    | 1                       |           |                          |                | 1                        | : - :                 | -50.7          |   | Center Freq<br>13.015000000 GHz |
| 10.       |         | 01               | -                   |                        | -                       | _         | _                        | _              |                          |                       | -              |   | Start Freq                      |
| 0.0       | o —     | 1                |                     |                        |                         |           |                          |                |                          |                       |                |   | 30.000000 MHz                   |
| -10.      |         |                  |                     |                        |                         |           |                          |                |                          |                       |                |   | Stop Freq<br>26.000000000 GHz   |
| -20       | -       |                  |                     |                        |                         |           |                          |                |                          |                       |                | -25.00  | CF Step<br>2.597000000 GHz      |
| -30.      | 0       | _                | the work            |                        | and a second of         | winner    | -                        |                | dan war                  | ي.<br>مريد مواجد مريد | and the second |   | Auto Man                        |
| -40       | www     |                  |                     | 1                      |                         |           |                          |                |                          |                       |                |   | Freq Offset                     |
| 10.1      | 0       |                  |                     |                        |                         |           |                          | 1              |                          |                       |                |   | 0 Hz                            |

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| Agilent Spectrum Andyzer - Swept SA<br>202 RL RF 90 940 PC  <br>Center Freq 79.500 kHz   | GENGE DAT   | ALIGN AUTIO<br>Avg Type: RMS<br>Avg[Hold: 9/100  | 12:09:53 PM Dec 15, 2018<br>TRACE 1 2 3 4 5 6<br>TYPE M MANAGE                | Frequency                       |
|--|---|--|---|---------------------------------|
| Ref Offset 8.58 dB   | IO: Wide  |  | kr1 9.846 kHz<br>-59.237 dBm  | Auto Tune                       |
| 10 dB/div Ref 8.58 dBm   |   |  |   | Center Freq<br>79.500 kHz       |
| -11.4  |   |  |   | Start Freq<br>9.000 kHz         |
| -31.4  |   | _  |   | Stop Freq<br>150.000 kHz        |
| -41.4  |   |  | -555.00 dBm   | CF Step<br>14.100 kHz           |
| 51 4 Aprov WWWWWWWWWWWWWWW   | Mart May Mun Manager Manager  |  |   | Auto Man<br>Freq Offset         |
| 014  | and a address on Myanal Carely and  | www.www.www.wywy   | approximation and the   | 0 Hz                            |
| Start 9.00 kHz<br>#Res BW 1.0 kHz  | #VBW 3.0 kHz*   | Sweep 174  | Stop 150.00 kHz<br>1.0 ms (1001 pts)<br>DC Coupled                            |                                 |
| Aglient Spectrum Analyzor - Swept SA<br>W RL RF 50 2 AD⊂<br>Center Freq 15.075000 MHz    | SENSE:MT  | Augnauto<br>Avg Type: RMS<br>Avg[Hold: 8/100   | 12:09:58 PMDec 15,2018<br>TRACE 1 2 3 4 5 6<br>TYPE MYMMMMM                   | Frequency                       |
| Ref Offset 8.59 dB<br>10 dB/div Ref 8.58 dBm   | NO: Fast  | and a second   | r1 7.792 MHz<br>-65.500 dBm   | 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  |   | ·  | 45.00 dBm   | CF Step<br>2.985000 MHz         |
| -61 4  |   |  |   | Auto Man<br>Freq Offset         |
| 101 a unplother that a dupper in manhage land  | and and the state of the state | and will be the stand at the st | Manitaryultaryangitarya   | 0 Hz                            |
| Start 150 kHz<br>#Res BW 10 kHz  | #VBW 30 kHz*  | Sweep 368  | Stop 30.00 MHz<br>3.3 ms (1001 pts)<br>DC Coupled                             |                                 |
| Aglent Spectrum Analyzer Swept SA<br>Werk   PF   S0 ≌ AC  <br>Center Freq 13.015000000 G | SEPASE:041  |  | 12:10:02 PMDec 15, 2018<br>TRACE 1 2 3 4 5 6<br>Type MWWWW<br>DET A A A A A A | Frequency                       |
| Ref Offset 7.98 dB   | NO: Fast Trig: Free Run<br>Sain:Low #Atten: 40 dB   |  | 2 25.636 GHz<br>-30.720 dBm   | Auto Tune                       |
| 20.0 Brdiv Ref 30.00 dBm   |   |  |   | Center Freq<br>13.015000000 GHz |
| 10.0<br>0.00   |   |  |   | Start Freq<br>30.000000 MHz     |
| -10.0  |   |  |   | Stop Freq<br>26.00000000 GHz    |
| -20.0  |   |  | -25.00  | CF Step<br>2.59700000 GHz       |
| 40.0   |   |  | man   | Freg Offset                     |
| -50.0<br>-60.0   |   |  |   | 0 Hz                            |
|  |   |  |   |                                 |



| LK RL             | RF<br>RF<br>r Freq 79.5                   | 00 kHz              | 1                             | SEM                      | E:DyT]             | Avg Type<br>Avg[Hold:   | ALIGN AUTIC | 12:10:47 PF<br>TRAC | MDec 15,2018<br>CE 1 2 3 4 5 6<br>PE MANANAN<br>ET A A A A A A | Frequency  |
|-------------------|---|---------------------|-------------------------------|--------------------------|--------------------|---|-------------|---------------------|--|--|
|                   | Patoma                                    |                     | PNO: Wide<br>FGain:Low        | #Atten: 22               | dB                 | OARCONG:  |             | Mkr1 9.             | 141 kHz  | Auto Tune  |
| 10 dB/d           | iv Ref 8.5                                | s dBm               |                               |                          |                    |   |             | -03.9               | 34 dBm   | Center Freq  |
| -1.42             |   |                     |                               |                          |                    |   | -           |                     |  | 79.500 kHz   |
| -11.4             |   |                     |                               |                          |                    |   |             |                     |  | Start Freq<br>9.000 kHz  |
| -31.4             |   |                     |                               |                          |                    |   |             |                     |  | Stop Freq<br>150.000 kHz   |
| -41.4             |   |                     |                               |                          |                    |   |             |                     | -35.00 dBm   | CF Step<br>14.100 kHz  |
| -61 4 1           | hall                                      |                     |                               |                          |                    |   |             |                     |  | <u>Auto</u> Man  |
| -71.4             | AN WARA                                   | Annanta             | War Manua                     | Manna                    | hard               | with want .   | A Mary A    | 18. 54 1.           | A  | Freq Offsel<br>0 Hz  |
| Start 9           | .00 kHz                                   | 4.1.4               | 1                             |                          | . An Dall a line.  | M. Wanas A  | AN along M. | Stop 15             | 0.00 KHZ   | 5 F  |
| #Res E            | 3W 1.0 kHz                                |                     | #VBW                          | 3.0 kHz*                 |                    |   | sweep 1     | 74.0 ms (           | (1001 pts)   |  |
| RE RL             | RF<br>r Freq 15.0                         | 50 0 A DC           | 1                             | Local Local              | E:DIT1             | Avg Type<br>Avg[Hold:   | ALIGN AUTO  | 12:10:52 PM         | MDec 15,2018<br>CE 1 2 3 4 5 6                                 | Frequency  |
|                   | Ref Offs                                  | 1                   | PNO: Fast<br>FGain:Low        | Trig: Free<br>#Atten: 10 | Run<br>dB          | Avg[Hold:   |             | 1kr1 4.7            | 123456<br>123456<br>1444444<br>17 MHz<br>56 dBm                | Auto Tune  |
| 10 dB/d           | iv itel 8.5                               |                     |                               |                          |                    |   |             |                     |  | Center Freq<br>15.075000 MHz   |
| -11.4             |   |                     |                               |                          |                    |   |             | -                   |  |  |
| -21.4             |   |                     |                               |                          |                    | _   |             |                     |  | Start Freq<br>150.000 kHz  |
| -31.4             |   |                     |                               |                          |                    | -   |             |                     | 1.11   | Stop Freq<br>30.000000 MHz   |
| -41.4             |   |                     |                               |                          |                    |   |             |                     | 45,00 dBm  | CF Step  |
| -61.4             |   | 1                   |                               |                          |                    |   |             |                     | 1.14   | 2.985000 MHz<br>Auto Man   |
| -71.4             |   |                     |                               | 1                        | 1                  |   |             | -                   |  | Freq Offsel<br>0 Hz  |
| -61 4<br>4        | And a | antif Weather High  | happinghyprome                | how have the second      | and a start of all | applyingthe   | -           | -tombrook           | humble   |  |
| Start 1<br>#Res E | 50 kHz<br>SW 10 kHz                       |                     |                               | 30 kHz*                  |                    |   | Sweep 3     | Stop 3              | 0.00 MHz<br>(1001 pts)   |  |
| Agilant S         | ectrum Analyzor<br>RF                     | SO D AC             |                               | SEN                      | E:D≬T]             |   |             | 12:10:55 P          | MDec 15, 2018  | Francisco  |
| Cente             | r Freq 13.0                               |                     | GHZ<br>PNO: Fast<br>FGain:Low | Trig: Free<br>#Atten: 40 | Run<br>dB          | Avg Type<br>Avg[Hold:   | 4/100       | TRAC                | CE 123456<br>PE MANANAN<br>ET A A A A A A                      | Frequency<br>Auto Tune   |
| 10 dB/d           | iv Ref Offse                              | t 7.98 dB<br>00 dBm | -                             |                          |                    |   | MI          | -30.4               | 84 GHz<br>30 dBm   |  |
| 20.0              |   |                     |                               |                          |                    | _   |             | -                   |  | Center Freq<br>13.015000000 GHz                                      |
| 10.0              | <b>1</b>                                  |                     | -                             |                          |                    | 1   |             |                     |  | Start Freq   |
| 100.00            |   |                     |                               |                          |                    |   |             |                     |  | 30.000000 MH2  |
| 0.00              |   |                     |                               |                          |                    |   |             |                     |  | Stop Freq<br>26.000000000 GHz  |
| 0.00              |   |                     |                               |                          |                    |   |             | 1                   | -25.00 0   |  |
| -10.0             |   |                     |                               |                          |                    |   |             | . AND .             | •  | CF Step<br>2.597000000 GHz   |
| -10.0             | ~~~~                                      |                     | mon                           |                          |                    |   | mana        |                     | m  | <u>Auto</u> Man  |
| -10.0             | ~~~~                                      |                     | murren                        |                          |                    | - Andrewski - A<br>Andrewski - Andrewski - Andr<br>Andrewski - Andrewski - Andr | maner       |                     | •  | CF Step<br>2.597000000 GHz<br><u>Auto</u> Man<br>Freq Offset<br>0 Hz |

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| 00        | RL           | RF 50                                     | ADC T              |                           | SE                    | MGE:DØT]                | Ave Tue                | RMS               | 12:11:27 P                       | 4Dec 15,2018                                 | Frequency                              |
|-----------|--------------|---|--------------------|---------------------------|-----------------------|-------------------------|------------------------|-------------------|----------------------------------|--|--|
| Ce        | nter Fre     | q 79.500                                  |                    | PNO: Wide ++<br>FGain:Low | #Atten: 2             | e Run<br>2 dB           | Avg Type:<br>Avg[Hold: |                   |                                  | E 123456<br>E MMMMM<br>T A A A A A A         | - Antonio -                            |
| 10        | dB/div       | Ref Offset 8<br>Ref 8.58 d                | 58 dB<br>Bm        |                           |                       |                         |                        | 1                 | 4 vikr1 9.0<br>-63.2             | 27 dBm                                       | Auto Tune                              |
| -1.4      |              | -   |                    |                           |                       |                         | 1                      |                   | $\sim$                           | 1773   | Center Freq<br>79.500 kHz              |
| -11       | 4            |   |                    | -                         | _                     |                         |                        | 1                 |                                  |  |  |
| -21       | á            |   |                    |                           |                       |                         |                        | _                 |                                  |  | Start Freq<br>9.000 kHz                |
| -31       | 4            |   |                    |                           |                       |                         |                        | -                 |                                  |  | Stop Freq<br>150.000 kHz               |
| -41       | 4            |   | 1.2                |                           | 1                     |                         |                        |                   | 1                                |  | CF Step                                |
| -61       | 4 1          |   |                    |                           |                       |                         |                        |                   |                                  | -SS.00 dBm                                   | 14.100 kHz<br>Auto Man                 |
| -71       | a May Amany  | Monthala                                  |                    | -                         |                       |                         | -                      |                   |                                  | 1  | Freq Offset                            |
| -81       | 4            | And                                       | and and all all    | WWWW                      | Yngrannyw             | physeles a              | www.hall               | how MAN           | www.Wally                        | Whywyar                                      |  |
| Sta<br>#R | es BW 1      | HZ  |                    |                           | N 3.0 kHz*            |                         |                        |                   | Stop 15                          | 0.00 kHz<br>1001 pts)                        |  |
| MSG       |              |   |                    |                           |                       |                         |                        |                   | 1 DC Cou                         |  |  |
| 00        | RL           | RF 501                                    |                    |                           | 58                    | NISE: DAT ]             | Avg Type:<br>Avg[Hold: | RMS               | 12:11:32 PF<br>TRAC              | 4Dec 15,2018<br>E 1 2 3 4 5 6                | Frequency                              |
|           |              | Ref Offset 8                              | 58 dB              | PNO: Fast<br>FGain:Low    | #Atten: 1             | e Run<br>0 dB           | Avg Hold:              |                   | 1kr1 4.7                         | 17 MHz                                       | Auto Tune                              |
| 18,       | dB/div       | Ref 8.58 d                                | Bm                 | 1                         | 1                     | -                       |                        | -                 | -69.2                            | 12 dBm                                       | Center Freq                            |
| -1.4      | 2            |   |                    |                           |                       |                         |                        | 1 1               |                                  |  | 15.075000 MHz                          |
| -11       | 4            |   |                    |                           |                       |                         |                        |                   |                                  |  | Start Freq<br>150.000 kHz              |
| -31       | 4            |   |                    |                           |                       |                         | 1                      |                   |                                  |  | Stop Freq                              |
| -41       | 4            |   |                    |                           |                       |                         |                        |                   |                                  | -45.00 dBm                                   | 30.000000 MHz                          |
| -61       | 4            |   |                    |                           |                       | -                       |                        | -                 | -                                |  | CF Step<br>2.985000 MHz                |
| -61       | 4            | •1  |                    | -                         |                       |                         |                        | -                 |                                  |  | Auto Man<br>Freq Offset                |
| -71       |              |   | w. t. It. is a sur | Lann on shee              |                       | 1                       |                        |                   |                                  | 1  | 0 Hz                                   |
| -01       | " antopyout  | Pandana ana ana ana ana ana ana ana ana a | haddel feransester | Hacher's All the All      | addisonal inpartients | attention of the second | Halkingsomme           | had a manual that | producernan                      | emphasiana                                   |  |
| Sta<br>#R | es BW 1      | Hz<br>0 kHz                               |                    | #VB                       | W 30 kHz*             |                         | s                      |                   | Stop 3<br>68.3 ms (              | 0.00 MHz<br>1001 pts)                        |  |
| Agit      | ant Spectrur | n Analyzor - Sv                           | mpt SA             |                           |                       |                         |                        |                   |                                  |  |  |
|           | nter Fre     | q 13.015                                  |                    | GHz<br>PNO: Fast          | Trig: Fre-            | e Run<br>0 dB           | Avg Type:<br>Avg[Hold: | RMS<br>4/100      | 12:11:35 PF<br>TRAC<br>TYL<br>DI | 4Dec 15,2018<br>E 1 2 3 4 5 6<br>M A A A A A | Frequency                              |
| 10        | dB/div       | Ref Offset 7<br>Ref 30.00                 | 98 dB              | Gamerow                   | e antes a             |                         |                        |                   | kr2 26.0                         | 00 GHz<br>12 dBm                             | Auto Tune                              |
| 20        |              | -   | 1                  | -                         |                       |                         | 1                      |                   |                                  |  | Center Freq<br>13.015000000 GHz        |
| 10        | 0            | 1   | -                  | -                         |                       | -                       |                        |                   |                                  | 1.1.1  |  |
| 0.0       | 0            | Ϋ́  |                    | -                         | -                     |                         |                        |                   |                                  |  | Start Freq<br>30.000000 MHz            |
| -10       | o —          | -   |                    |                           |                       |                         | _                      |                   |                                  |  | Stop Freq                              |
| -20       | 0            |   |                    |                           |                       |                         |                        | _                 |                                  | -25.00 -2                                    | 26.000000000 GHz                       |
| -30       | 1            |   | 1                  |                           |                       |                         |                        | 1 May amount      | man                              | when the                                     | CF Step<br>2.597000000 GHz<br>Auto Man |
| -40       | m            | The                                       |                    | - manual market           |                       |                         | Harter                 | 1 - 1             |                                  | 1.1  | Freq Offset                            |
| -50.      |              |   |                    | -                         |                       |                         | 1                      |                   |                                  |  | 0 Hz                                   |
| -60       |              |   |                    |                           |                       |                         |                        |                   |                                  | 6.00 GHz                                     |  |
| -         | rt 30 MH     |   |                    |                           |                       |                         |                        |                   |                                  |  |  |

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| 100        | RL     |           | Analyzor<br>RF<br><b>79.5</b> | 50 2 AL         | I D        |                              | Trin         | SEMSE DIT             | 1                         | Avg Type:<br>Avg[Hold: 1 | RMS                 | 12:12:07<br>TR.  | MDec 15,2018<br>CE 1 2 3 4 5 6<br>CPE M 444444<br>DET A A A A A A  | Frequency                      |
|------------|--------|-----------|-------------------------------|-----------------|------------|------------------------------|--------------|-----------------------|---------------------------|--------------------------|---------------------|------------------|--|--------------------------------|
|            |        |           |                               |                 | P<br>II    | NO: Wide<br>Gain:Low         | #Atte        | n: 10 dB              |                           | - Bir Joid; 1            |                     | 1kr1 76          | 680 kHz  |                                |
| 10 0       | dB/di  | v R       | ef Offs<br>tef 8.5            | 8 dBn           | 1          | 1                            |              | 1                     |                           | - 1                      |                     | -63.1            | 335 dBm  |                                |
| -1.4       | 12     | _         | -                             | -               | _          | -                            | -            |                       | -                         | _                        |                     | -                |  | Center Fre<br>79.500 kH        |
| ÷03        |        |           | -                             | -               | -          |                              | -            |                       |                           | _                        |                     |                  |  | Start Fre                      |
| -21.5      | 4      |           |                               |                 |            |                              |              | -                     |                           |                          |                     | -                |  | 9.000 kH                       |
| -31-       | 4      | -         |                               |                 |            | 1                            |              |                       |                           |                          |                     |                  |  | Stop Free<br>150.000 kH        |
| -41,-      | 100    |           |                               |                 |            |                              |              |                       |                           |                          | 1 - 1               | 1                |  | CF Ste                         |
| -61        | -      |           | 1                             |                 |            |                              |              | A1                    |                           |                          |                     |                  | -38.00 dBra  | 14,100 kH<br>Auto Ma           |
| -71.3      | A      | winter    | NAM                           | MANAM           | mm         | hand                         | Mulamut      | Munsh                 | anna                      | Marian                   | 1 minutes           | hammen           | maria  | Freq Offse                     |
| -81 -      | 1.1    | and the   | 1                             |                 |            |                              |              |                       | 1                         | ա. ձե                    | 11-1                | 1                |  | он                             |
|            | L      |           |                               |                 |            |                              |              |                       |                           | -                        | 1 - 1               |                  |  | 1                              |
| #Re        | es B   | .00 kł    | hz<br>kHz                     |                 |            | #VE                          | 3W 3.0 K     | Hz*                   |                           | s                        |                     | 74.0 ms          | 50.00 kHz<br>(1001 pts)  |                                |
| Agile      | ent Sp | ectrum    | Analyzor                      | Swept           | SA         |                              |              |                       |                           |                          | SIA(D               |                  |  |                                |
| Ce         | nter   | Free      | RF<br>q 15.0                  | 50 0 A          | 0 MHz      | PNO: Fast                    | Trig         | SEMSE:DIT             | 1                         | Avg Type:<br>Avg[Hold: I | RMS<br>8/100        | 12:12:12<br>TR   | MDec 15,2018<br>VCE 1 2 3 4 5 6<br>VPE MMMMMMM<br>DET A A A A A A  | Frequency                      |
| 10 0       | dB/di  | R         | ef Offs<br>tef 8.5            | t 8.58<br>8 dBn |            | PNO: Fast<br>Gain:Low        | #Atte        | n: 10 dB              |                           |                          |                     | Mkr1             | 628 kHz<br>64 dBm  |                                |
| -1.4       | 1      |           | -                             |                 |            |                              |              |                       |                           |                          | ÷ . :               | 1                | 11   | Center Fre                     |
| -112       | 1.1    |           |                               |                 |            |                              |              |                       |                           |                          |                     |                  |  | 15.075000 MH                   |
| -21.3      |        |           |                               |                 |            | -                            |              |                       |                           |                          |                     |                  |  | Start Fre<br>150.000 kH        |
| -31.       | 1.1    |           |                               |                 |            |                              |              |                       |                           |                          |                     |                  |  | Stop Fre                       |
| -41.       | 4      |           |                               |                 |            |                              |              |                       |                           |                          |                     |                  | -45.00 dBm   | 30.000000 MH                   |
| -61        | 4      | 1         |                               |                 |            |                              |              |                       |                           |                          |                     |                  |  | CF Stel<br>2.985000 MH         |
| -61 -      | 4      | Permitive | Shannaa                       | +Antoine th     | NCTOR LINE | Phylippin                    | and the main | WW WITH WHEN TH       | Understand and the second | in the state             | للار الجامعة مع الم | hules Jihaut     | a and a start of the start of t | <u>Auto</u> Ma                 |
| -71.5      |        | _         | -                             |                 | 1.10       |                              |              |                       |                           |                          |                     |                  | a strate   | Freq Offse<br>0 H              |
| -01 -      | 4      |           | -                             | -               | _          | -                            | -            |                       |                           | -                        |                     |                  |  |                                |
| Sta        | art 1  | 50 KH     | z                             | 1               | -          |                              |              |                       |                           |                          |                     | Stop             | 30.00 MHz  |                                |
| #Re<br>MSG | es B   | W 10      | KHZ                           |                 |            | #VE                          | 3W 30 K      | Hz*                   |                           | 5                        |                     | 168.3 ms         | (1001 pts)<br>aupled   |                                |
| 1.00       | RL     | 1         | Analyzor<br>RF                | 50 0            | AC         |                              | 1            | SEMISERNI             | 1                         | Aug 7:0                  |                     | 12:12:16         | MDec 15,2018   | Frequency                      |
| Ce         | nter   | Free      | 13.0                          | 1500            | 0000       | SHZ<br>PNO: Fast<br>Gain:Low | Trig         | Free Run<br>en: 40 dB |                           | Avg Type:<br>Avg[Hold: - |                     |                  | VCE 123456<br>PPE MWWWWWW<br>DET A A A A A A   | 1100                           |
| 10 0       | dB/di  | v R       | ef Offs<br>lef 30.            | t 7.98<br>00 dB | m          |                              |              |                       |                           |                          | M                   | kr2 25.<br>-31.( | 662 GHz  | Auto Turi                      |
| 20.1       | 1      |           | -                             |                 |            | -                            |              |                       |                           |                          |                     |                  |  | Center Free<br>13.015000000 GH |
| 10.1       | 5 E    |           | 1                             |                 |            |                              |              |                       |                           | -                        | 1                   |                  |  |                                |
| 0.0        |        |           | Ϋ́                            |                 |            |                              |              | _                     |                           |                          | 1                   | 1                |  | Start Fre<br>30.000000 MH      |
| -10.0      | 0      | -         |                               | _               |            |                              | _            |                       |                           |                          |                     |                  |  | Stop Fre                       |
| -20.0      | 0      |           |                               |                 |            |                              |              |                       |                           |                          | _                   |                  |  | 26.000000000 GH                |
| -30.0      | 0      |           |                               |                 |            | -                            |              |                       |                           | _                        |                     | 1                | -25.00 000   | CF Ster<br>2.597000000 GH      |
|            | 0      |           | han                           |                 | the sparts | moner                        | a            | men                   |                           | m                        | man                 | - monter and     | and the grand  | <u>Auto</u> Ma                 |
| -40.0      | 100    | -         |                               |                 | _          | 1                            | -            | -                     |                           | _                        | -                   | -                |  | Freq Offse                     |
| -40.0      | 0      |           |                               |                 |            |                              |              |                       |                           |                          |                     |                  |  |                                |
| 1.0        | 1.1    | _         |                               | -               | _          | -                            | -            |                       | -                         |                          |                     |                  |  |                                |

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|  | CH_16  |                          | - 11 1/761 100-1   |  |                                 | .p(e) (e               |                    | ectrum Analyzer       | Agilent Sp |
|--|--|--------------------------|--------------------|--|---------------------------------|------------------------|--------------------|-----------------------|------------|
| Frequency                              | 40ec 15,2018<br>E 1 2 3 4 5 6<br>M 4 4 4 4 4 4             | 12:11:07 PF<br>TRAC      | e: RMS<br>d: 8/100 | Avg Type<br>Avg[Hold   | Trig: Free Run                  | PNO: Wide              | 00 kHz             | Freq 79.5             | Center     |
| Auto Tune                              | 000 kHz  | Mkr1 9.0                 |                    | distance.  | #Atten: 22 dB                   | FGain:Low              |                    | Batoma                | 100        |
|  | 27 dBm   | -62.7                    |                    | _  |                                 |                        | 8 dBm              | v Ref 8.5             | 10 dB/di   |
| Center Freq<br>79.500 kHz              |  |                          | -                  |  |                                 |                        |                    |                       | -1.42      |
|  |  | -                        | 1.1.1              |  |                                 | -                      |                    |                       | -11.4      |
| Start Freq<br>9.000 kHz                |  | 1                        | 1                  |  |                                 |                        |                    |                       | -21.4      |
|  |  |                          |                    |  |                                 |                        |                    |                       | -31.4      |
| Stop Freq<br>150.000 kHz               |  |                          |                    |  |                                 |                        |                    |                       |            |
| CF Step                                |  | 1                        |                    |  |                                 |                        |                    |                       | -41.4      |
| 14.100 kHz<br>Auto Man                 | -55.00 dBm   | -                        | -                  |  |                                 |                        |                    |                       | -61_4      |
| Freq Offset                            | 1 1 1  | 1                        |                    | 1  |                                 |                        |                    | A Man                 | -61 A      |
| 0 Hz                                   | 1  | 1                        |                    | 1  | A                               | An Am a                | Murra Man          | a human he            | -71.4      |
| 1                                      | MANN   | Marthanth                | Hard Marine        | www.when   | mppplan                         | A MARINA               | 1.4                |                       | -61.4      |
|  |  |                          | Sweep 1            |  | 0 642*                          | #VBW                   |                    | 00 kHz<br>W 1.0 kHz   |            |
|  |  | DC Cou                   |                    |  |                                 | #1000                  |                    | 1.0 KH2               | wee -      |
|  | 4Dec 15, 2018  | 12:11:12 P               | ALIGN AUTO         |  | SENSEIDIT                       |                        | 50 2 ADC           | ectrum Analyzor<br>RF | DO RL      |
| Frequency                              | 4Dec 15,2018<br>E 1 2 3 4 5 6<br>E MMMMMM<br>T A A A A A A | TRAC<br>TYL              | e: RMS<br>1: 8/100 | Avg Type<br>Avg[Hold   | Trig: Free Run<br>#Atten: 10 dB | PNO: Fast<br>FGain:Low | 75000 MH           | Freq 15.0             | Center     |
| Auto Tune                              | 59 MHz<br>44 dBm   | Akr1 2.3                 |                    |  | and we want                     | r Gam. Low             | t 8.59 dB<br>8 dBm | Ref Offse             |            |
| Center Freq                            |  | -70.4                    | 1                  |  | - 1                             | 1                      |                    | v Ref 8.5             | 10 dB/di   |
| 15.075000 MHz                          |  | 1                        |                    | -  |                                 |                        |                    |                       | -1.42      |
| Start Freq                             |  |                          |                    | -  |                                 |                        |                    |                       | -11.4      |
| 150.000 kHz                            |  |                          |                    | -  |                                 |                        |                    |                       | -21.4      |
| Stop Freq                              |  |                          | -                  | -  | _                               | -                      |                    | _                     | -31.4      |
| 30.000000 MHz                          | -45.00 dBm   |                          | -                  | -  |                                 |                        |                    |                       | -41.4      |
| CF Step<br>2.985000 MHz                |  |                          |                    | _  |                                 |                        |                    |                       | -61.4      |
| Auto Man                               |  |                          |                    | 1  |                                 |                        |                    | 2.1                   | -61.4      |
| Freq Offset                            | 1 - 2  |                          |                    |  |                                 |                        |                    | •1                    | -71.4      |
| 0 Hz                                   | 1.1  |                          | 1                  |  | here I                          | and an appropriate     | manahushilanpi     | may all interpret     | -01.4 MAH  |
|  | alminiation  | the international states | public despect     | and the second sec | talayaria for for for space     |                        |                    |                       | 110        |
|  | 0.00 MHz<br>1001 pts)                                      | Stop 3<br>68.3 ms (      | Sweep 3            |  |                                 | #VBW                   |                    | SO KHZ<br>W 10 KHZ    | Start 1    |
|  | pled   | 1 DC Cou                 | STATUS             |  | _                               | _                      |                    |                       | Weid       |
| Frequency                              | 4Dec 15,2018<br>E 1 2 3 4 5 6<br>MMMMMMM<br>T A A A A A A  | 12:11:15 P#<br>TRAC      | ALIGN AUTO         | Avg Type   | SEMSE(DIT)                      | GHz                    | 50.01              | RF<br>Freq 13.0       | RE RL      |
| Auto Tune                              |  |                          |                    | Avg[Hold   | Trig: Free Run<br>#Atten: 40 dB |                        |                    |                       |            |
|  | 70 GHz<br>42 dBm   | -30.7                    | IVI                |  |                                 | 10 million - 11        | 00 dBm             | v Ref Offse           | 10 dB/di   |
| Center Freq<br>13.015000000 GHz        |  | 1.1                      |                    |  |                                 |                        |                    | 2.7                   | 20.0       |
| 13.0 1900000 342                       |  | 1                        | 1.1                |  |                                 | -                      |                    |                       | 10.0       |
| Start Freq<br>30.000000 MHz            |  | 1                        |                    |  |                                 |                        |                    | 01                    |            |
| 50.000000 With 12                      |  | 1 1                      |                    |  |                                 |                        |                    |                       | 0.00       |
| Stop Freq<br>26.00000000 GHz           |  |                          |                    |  |                                 |                        |                    |                       | -10.0      |
|  | -25.00   |                          |                    |  |                                 |                        |                    |                       | -20.0      |
| CF Step<br>2.597000000 GHz<br>Auto Man | any month  | mon                      |                    |  |                                 |                        |                    |                       | -30.0      |
|  |  |                          |                    |  | Mark Contraction of the second  |                        | man                | american              | -40.0      |
|  |  |                          |                    | -  |                                 |                        |                    |                       | -50.0      |
| Freq Offset                            |  |                          |                    |  |                                 | 1                      |                    |                       |            |
|  |  |                          |                    | -  |                                 |                        |                    |                       | -60.0      |
| Freq Offset                            | 6.00 GHz   | Stop 3                   |                    |  |                                 |                        | 4                  | 0 MHz                 | -60.0      |

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| LKI F      | RL             | rum Analy<br>RF | 50 9                 | ADC T       | -1-  | 5  | EH6E:D≬T]                             |                     | ALIGN AUTO         | 12:11:49 F        | MDec 15, 2018  | Frequency                    |
|------------|----------------|-----------------|----------------------|-------------|--|--|---------------------------------------|---------------------|--------------------|-------------------|--|------------------------------|
| Cer        | nter F         | req 79          | 9.500                |             | PNO: Wide -  | Trig: Fre                                | e Run<br>28 dB                        | Avg Typ<br>Avg[Hold |                    |                   | CE 123456<br>CPE MUMANAN<br>DET A A A A A A                      |                              |
| 10 0       | B/div          | Ref O           | ffset 8.6<br>8.58 dl | ie de<br>Sm |  |  |                                       |                     | N                  | lkr1 12.<br>-58.7 | 243 kHz<br>99 dBm  | Auto Tune                    |
| 1.14       |                |                 |                      | 1           |  |  |                                       |                     |                    |                   | 1000   | Center Freq                  |
| -1/42      | 2              |                 |                      | -           |  |  |                                       |                     | 1                  | 1.1               | 1  | 79.500 kHz                   |
| 201.4      | 4              |                 |                      |             | -  | -  |                                       |                     |                    |                   |  | Start Freq                   |
| -21.4      | á              |                 |                      |             | -  | -  |                                       |                     |                    |                   |  | 9.000 kHz                    |
| -31.4      | 4              |                 | -                    |             | -  |  |                                       | -                   |                    |                   |  | Stop Freq                    |
| -41.4      | 4              |                 |                      |             |  |  |                                       |                     | -                  |                   | -  | 150.000 kHz                  |
| -61.4      | ·              |                 | _                    |             |  |  |                                       |                     |                    |                   | -55.00 dBm   | CF Step<br>14.100 kHz        |
| -61 4      | Why            | MAN             |                      |             | -  |  |                                       | -                   |                    |                   |  | <u>Auto</u> Man              |
| -71.4      | 4              |                 | manpr                | MANA        | * War west   | Norman                                   | Mul A                                 | MADE AL             | n ant              |                   | 1. 1.1   | Freq Offsel<br>0 Hz          |
| -01.4      | 4              | -               | -                    |             |  | Norman                                   | , MARANA A                            | MAN, AND MAN        | WWWW Y             | mont              | 440mm  |                              |
| Sta        | rt 9.00        |                 | _                    |             | 1  |  |                                       |                     | 1.1                |                   | 50.00 kHz  |                              |
| #Re        | es BW          | 1.0 KH          | Iz                   |             | #VB  | W 3.0 kHz                                | *                                     |                     |                    | 74.0 ms           | (1001 pts)   |                              |
| Agile      |                | rum Analy       | nzor Sw              | pt SA       |  | _  |                                       |                     |                    |                   |  |                              |
| Cer        | nter F         | RF<br>reg 15    | 5.0750               | 000 MH      | z  | 1. | ENGE DATI                             | Avg Typ<br>Avg[Hold | e: RMS             | 12:11:54 F        | MDec 15,2018<br>CE 1 2 3 4 5 6<br>CPE MUMUMUM<br>DET A A A A A A | Frequency                    |
|            |                |                 |                      |             | PNO: Fast -<br>IFGain:Low  | #Atten:                                  | 10 dB                                 | Constant of the     |                    | Akr1 4.7          | 717 MHz  | Auto Tune                    |
| 10 c       | B/div          | Ref 0           | ffset 8.6<br>8.58 dl | a dB<br>3m  |  | -  | -                                     |                     |                    | -70.2             | 63 dBm   |                              |
| -1.42      | 2              |                 | _                    |             |  |  |                                       |                     | 1                  |                   |  | Center Fred<br>15.075000 MHz |
| -11.4      | a              |                 | _                    |             | -  |  |                                       |                     |                    | -                 |  |                              |
| -21.4      |                |                 | -                    |             |  |  |                                       |                     | 1                  | J                 |  | Start Freq<br>150.000 kHz    |
| -31.4      |                |                 |                      |             |  |  |                                       |                     |                    |                   |  |                              |
|            |                |                 |                      |             |  |  |                                       |                     |                    |                   | 1  | Stop Freq<br>30.000000 MHz   |
| -41.4      | -              |                 |                      |             |  |  |                                       |                     |                    |                   | -45.00 dBm   | CF Step                      |
| -51.4      | 1.1            |                 | -                    |             |  |  |                                       |                     | 1                  |                   | 1.1.1  | 2.985000 MHz<br>Auto Man     |
| -61 4      | 4              |                 | •1                   | 1.          |  |  |                                       |                     | 1.1                |                   |  | Freq Offsel                  |
| -71.4      | 4              | 1               | 1.                   |             | 1.5.55   | 1  | 1                                     |                     |                    |                   |  | 0 Hz                         |
| -01.4      | a whereast the | w can all       | -w-mp-da             | Now Years   | with the first of the second states of the second s | nd nin Alintan                           | New Hartwhe                           | -                   | Agriculture        | -                 | Pal-antoniantor  |                              |
| Sta        | 1 150          | KHZ             |                      |             |  |  |                                       | 1.2.010.20          |                    | Stop 3            | 30.00 IVIHZ  |                              |
| #Re<br>MSG | es Bw          | 10 KH:          | z                    |             | #VB  | W 30 kHz'                                | · · · · · · · · · · · · · · · · · · · |                     |                    | 08.3 ms           | (1001 pts)<br>upled  |                              |
| Agile      | nt Spect       | rum Analy<br>RF | 7201 - SW            | AC          |  | 5  | PARENTI                               |                     | ALIGNAUTO          | 12:11:58          | MDec 15, 2018  |                              |
| Cer        | nter F         | reg 13          | 3.0150               | 00000       | GHZ<br>PNO: Fast -<br>IFGain:Low   | Trig: Fre                                | e Run                                 | Avg Typ<br>Avg[Hold | e: RMS<br>1: 4/100 | TRA               | CE 123456<br>CPE MUMMUM<br>DET A A A A A A                       | Frequency                    |
| 24.5       |                | Ref O           | ffset 7.5            | 8 dB        | If Gama ow   | Section .                                |                                       |                     | M                  | kr2 26.0          | 000 GHz<br>99 dBm  | Auto Tune                    |
| Log        | B/div          | Ref 3           | 30.00 0              | IBm         | 1  |  | 1                                     |                     | 1                  | -30.8             |  | Center Freq                  |
| 20.0       | 0.             |                 |                      |             | -  |  |                                       | -                   |                    | -                 |  | 13.015000000 GHz             |
| 10.0       |                | 1               | -                    |             | -  | -  |                                       | -                   | -                  | -                 |  | Start Fred                   |
| 0.00       | o              | -Y-             | _                    |             |  | _  |                                       |                     |                    |                   |  | 30.000000 MHz                |
| -10.0      | -              | -               | -                    |             | -  | -  |                                       | -                   | -                  |                   |  | Stop Freq                    |
| -20.0      |                |                 |                      |             |  |  |                                       |                     |                    |                   | -  | 26.00000000 GHz              |
| -30.0      |                |                 |                      |             |  |  |                                       |                     |                    |                   | -25.00 000   | CF Step                      |
| -40.0      |                | -               | m                    | man         |  |  | man                                   | man                 | manun              | m                 | min  | 2.597000000 GHz<br>Auto Man  |
| -50.0      | man            |                 | and                  |             | - man  | man and a                                |                                       | 11                  | 1.1                |                   |  | Freq Offset                  |
| -50.0      |                |                 |                      |             |  |  |                                       |                     | 1                  |                   |  | 0 Hz                         |
|            |                |                 |                      |             |  |  |                                       | 1                   |                    |                   |  |                              |
| -60.0      |                |                 |                      | 1           |  |  |                                       |                     |                    | 1.1               |  |                              |

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| 1.00              | RL              |        | Analyzer<br>RF<br>79.5   | 50 2 AL           | 0C [   | 1                      | i t          | SEMSE:DVT            | 1      | ava Type                                |                           | 12:12:23             | PMDec 15, 2018   | Frequency                              |
|-------------------|-----------------|--------|--------------------------|-------------------|--|------------------------|--------------|----------------------|--------|---|---------------------------|----------------------|--|--|
| Ce                | riter           | Free   | 1 / 9.5                  | UU KF             | P<br>II  | NO: Wide<br>Gain:Low   | Trig         | Free Run<br>n: 10 dB |        | Avg Type:<br>vg[Hold:                   |                           |                      | PMDec 15,2018<br>ACE 1 2 3 4 5 6<br>YPE MANANAN<br>DET A A A A A A     |  |
| 10                | dB/di           | R      | ef Offse<br>ef 8.5       | t 8,58 d<br>B dBn | dB   |                        | 1.1          |                      |        | -                                       | N                         | 1kr1 39<br>-62.1     | .456 kHz<br>702 dBm  | Auto Tune                              |
| -1.4              |                 |        |                          |                   |  |                        |              |                      |        |   |                           |                      |  | Center Freq<br>79.500 kHz              |
| ŵ                 | 4               |        |                          |                   |  | -                      | _            |                      | _      |   |                           | -                    |  | Start Freq                             |
| -21               | 4               |        |                          |                   |  | -                      | -            | -                    | -      |   |                           | -                    | -  | 9.000 kHz                              |
| -31               |                 |        |                          |                   |  | -                      |              |                      |        |   |                           |                      |  | Stop Freq<br>150.000 kHz               |
| -41               |                 |        |                          |                   |  |                        |              |                      |        |   | 1                         | 1                    |  | CF Step                                |
| -61               | 4               |        |                          |                   | 1  | 1                      | -            | -                    |        |   |                           |                      | -35.00 dBin  | 14.100 kHz<br>Auto Man                 |
| -71               | AW              | where  | NWW                      | "wyron"           | MyAny  | ren Minis              | Maryan       | whether .            | Mynn   | wanth                                   | entryly                   | an parting           | MMA MAMA   | Freq Offset<br>0 Hz                    |
| -01               | 4               |        |                          |                   |  |                        |              |                      |        |   | -                         |                      |  |  |
| Sta<br>#R         | art 9.<br>tes B | .00 kH | Hz<br>D kHz              |                   |  | #VI                    | 3W 3.0 k     | Hz*                  |        | 5                                       | Sweep 1                   |                      | 50.00 kHz<br>(1001 pts)  |  |
| MSG               | -               |        | -                        | Swept             |  |                        |              |                      |        | _                                       | STATU                     | DC Ce                | oupled   |  |
| 100               | RL              | 1      | RF<br>q 15.0             | 50 2 1            |  | PNO: East              | Trig         | SEMSE:DAT            | 1      | Avg Type:<br>vg[Hold:                   | RMS                       | 12:12:28<br>TR.<br>J | PMDec 15,2018<br>ACE 1 2 3 4 5 6<br>YPE MWWWWW<br>DET A A A A A A      | Frequency                              |
| 10                | dB/di           | R      | ef Offse<br>tef 8.5      | t 8.58<br>8 dBn   | dB   | FGain:Low              | #Atte        | m: 10 dB             |        |   |                           | /kr1 1.              | 732 MHz<br>259 dBm   | Auto Tune                              |
| -1.4              | 1               |        |                          |                   |  |                        |              |                      |        |   |                           |                      |  | Center Freq<br>15.075000 MHz           |
| ŵ                 | 4               |        |                          |                   |  | -                      | _            |                      | -      |   |                           |                      |  | Start Freq                             |
| -21               | 4 —             | -      | -                        |                   | -  |                        |              |                      | -      |   |                           |                      |  | 150.000 kHz                            |
| -31               | Ä               | 1      |                          |                   | 1  | -                      |              |                      |        |   | 1-1                       |                      |  | Stop Freq<br>30.000000 MHz             |
| -41               |                 |        |                          |                   |  |                        |              |                      |        | _                                       |                           |                      | -45.00 dBm   | CF Step                                |
| -61               |                 |        | -                        | hardhar           | LA.M.  |                        | an an alta A | NL 100-101 -01       |        |   | 11 M A.                   | Nr. 50 all           | #  | 2.985000 MHz<br>Auto Man               |
| -71               | 4               |        |                          |                   | un "Antha  | and the state of       |              | Di Mandayan Adad .   | an a w | L M L M L M L M L M L M L M L M L M L M | nd all of the             | ALL BLAR BUILD       | a slada, shu shadh   | Freq Offset<br>0 Hz                    |
| -81               | 4               |        | -                        | -                 | -  | -                      |              | -                    | -      | -                                       |                           |                      |  |  |
| Sta<br>#R         | art 1           | 50 kH  | z<br>kHz                 | -1-               |  | #VE                    | 3W 30 KI     | Hz*                  |        | 5                                       | Sweep 3                   | Stop                 | 30.00 MHz<br>(1001 pts)  |  |
| MSG               |                 |        |                          |                   | _  |                        |              |                      | _      |   |                           | DC C                 |  |  |
| 2 10 2            | RL              | -      | Analyzer<br>RF<br>q 13.0 | 50.0              | AC 0000 0  | GHz                    | Tria         | SEMSE:Dy1            | 1      | Avg Type:<br>vg[Hold:                   | LIGN AUTO<br>RMS<br>4/100 | 12:12:31<br>TR.      | PMDec 15,2018<br>ACE 1 2 3 4 5 6<br>YPE MYAMAAAAA<br>DET A A A A A A A | Frequency                              |
| 10                | dB/di           | R      | ef Offse<br>tef 30.      | t 7.98            |  | PNO: Fast<br>FGain:Low | #Atte        | n: 40 dB             |        |   |                           | kr2 25.              | 818 GHz<br>954 dBm   |  |
| 20                |                 |        |                          |                   |  |                        |              |                      |        |   |                           |                      |  | Center Freq                            |
| 10                | 5 F             |        | 1                        |                   |  |                        |              |                      |        |   |                           |                      |  | 13.015000000 GHz                       |
| 0.0               |                 | 11     | Ĭ—                       |                   |  | -                      |              |                      |        |   |                           |                      |  | Start Freq<br>30.000000 MHz            |
|                   | .v              | -      | -                        |                   | -  | -                      |              | -                    | -      |   |                           |                      |  | Stop Freq                              |
| -10               | 0               | _      |                          |                   |  | -                      |              |                      | _      |   |                           |                      | -25.00 0   | 26.000000000 GHz                       |
| -10               | -               |        | -                        |                   | -  |                        |              |                      |        |   | man                       | man                  | - Unsw   | CF Step<br>2.597000000 GHz<br>Auto Man |
| -20               |                 |        |                          |                   | A  |                        |              | Marchine .           | and a  | ~                                       | 1                         | -                    | 1  |  |
| -20<br>-30<br>-40 |                 |        | have                     | -                 | the second s | man                    | mar          |                      |        | -                                       |                           |                      |  | Freq Offset                            |
| -20               |                 |        | have                     |                   | 45450  | - marine               | mar          |                      |        |   |                           |                      |  | Freq Offset<br>0 Hz                    |

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