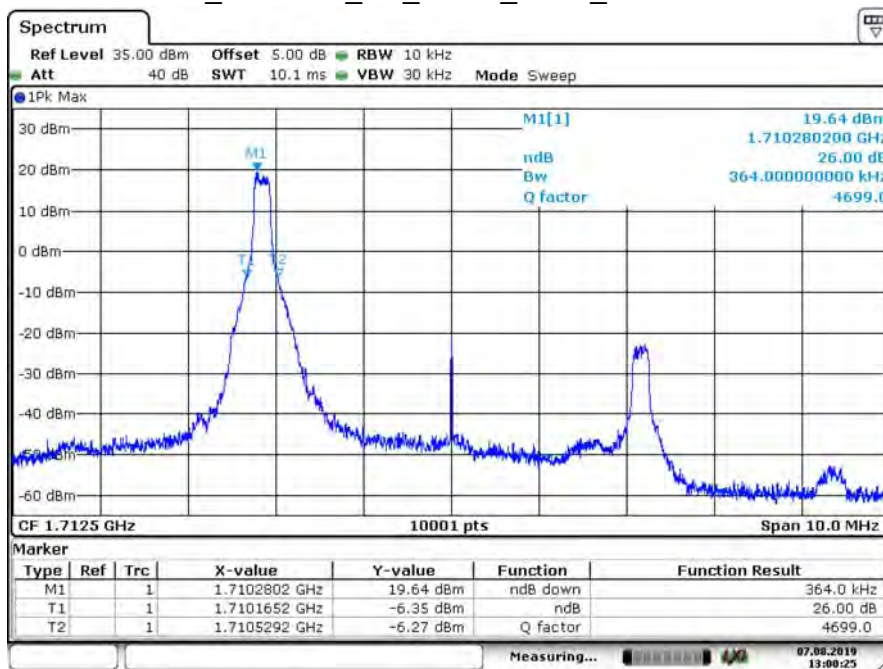
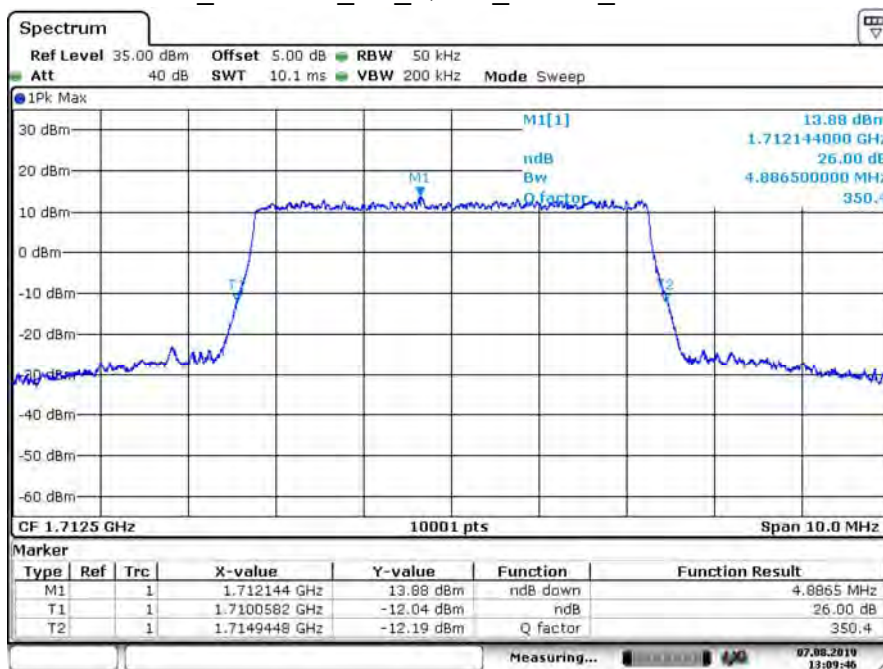


B4\_CH19975\_5M\_QPSK\_1RB0\_26dB BW



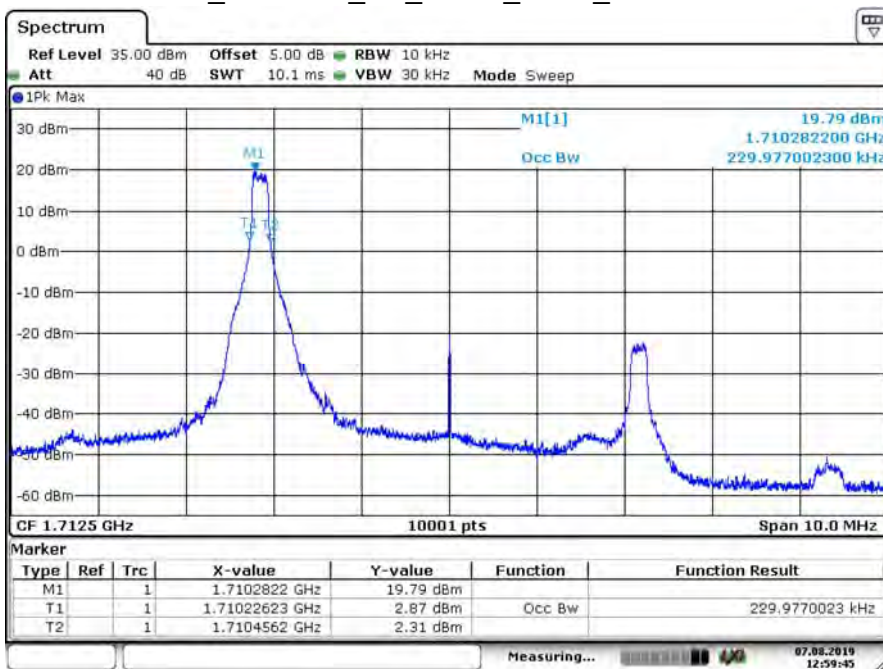
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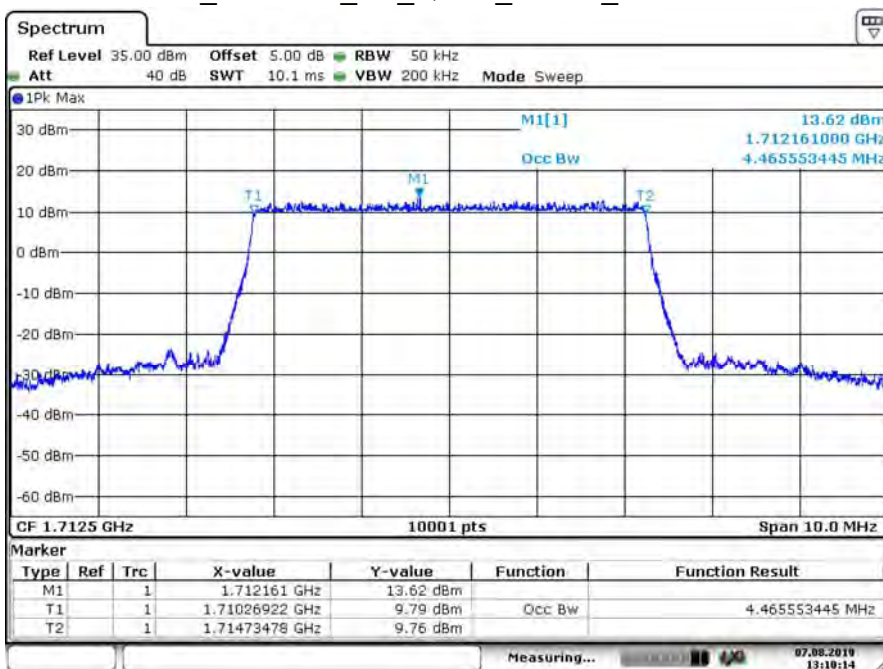
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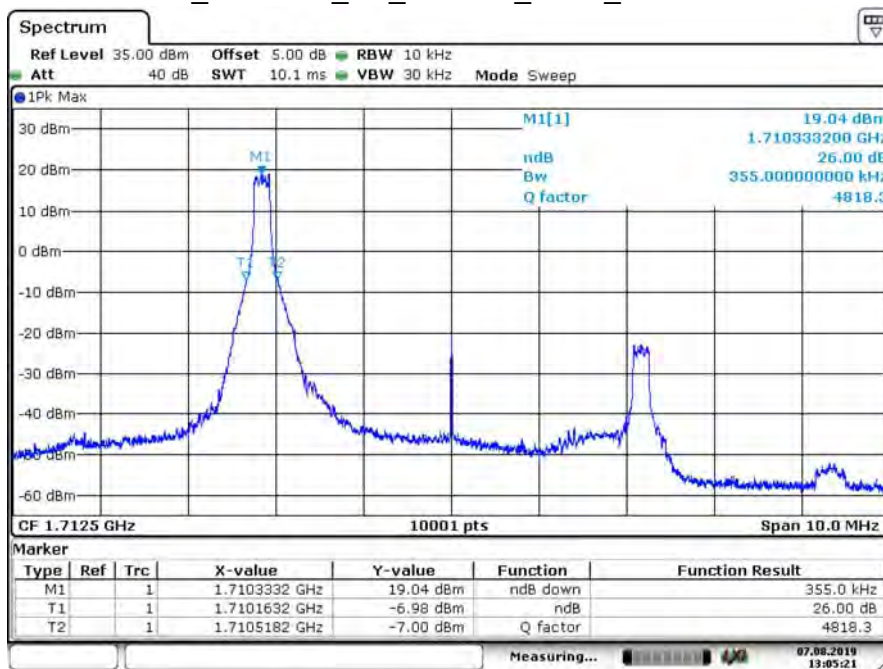
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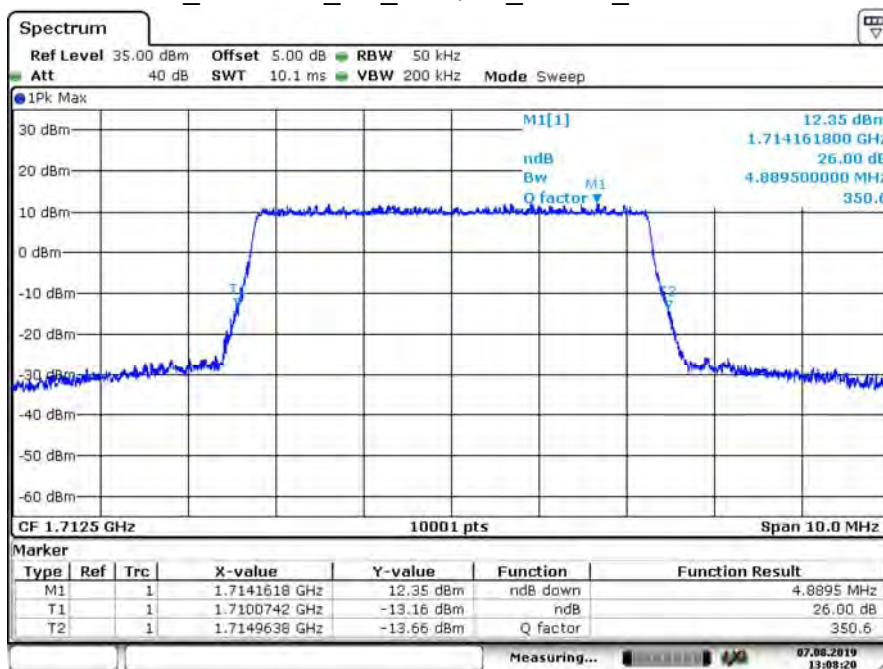
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B4\_CH19975\_5M\_16-QAM\_1RB0\_26dB BW



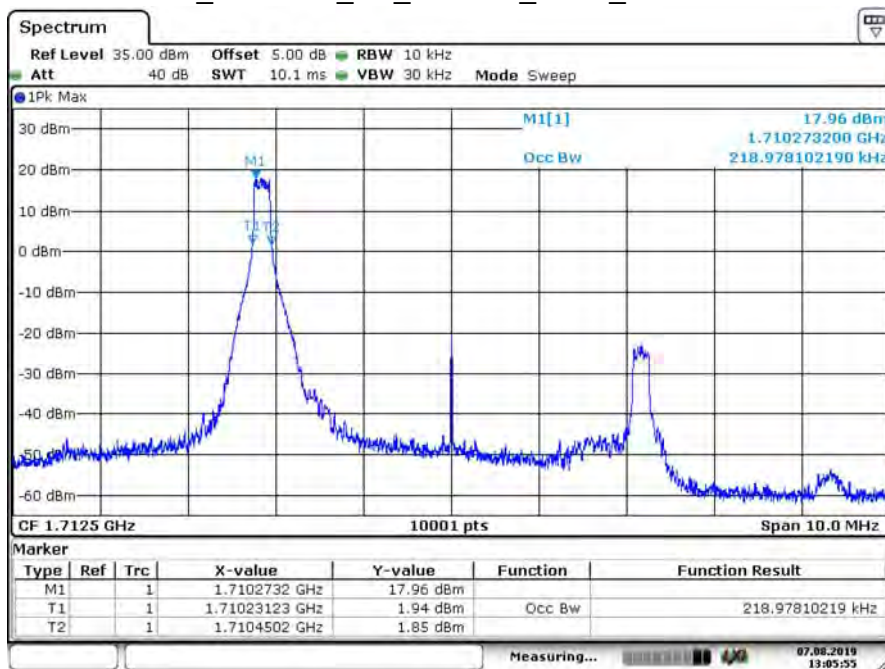
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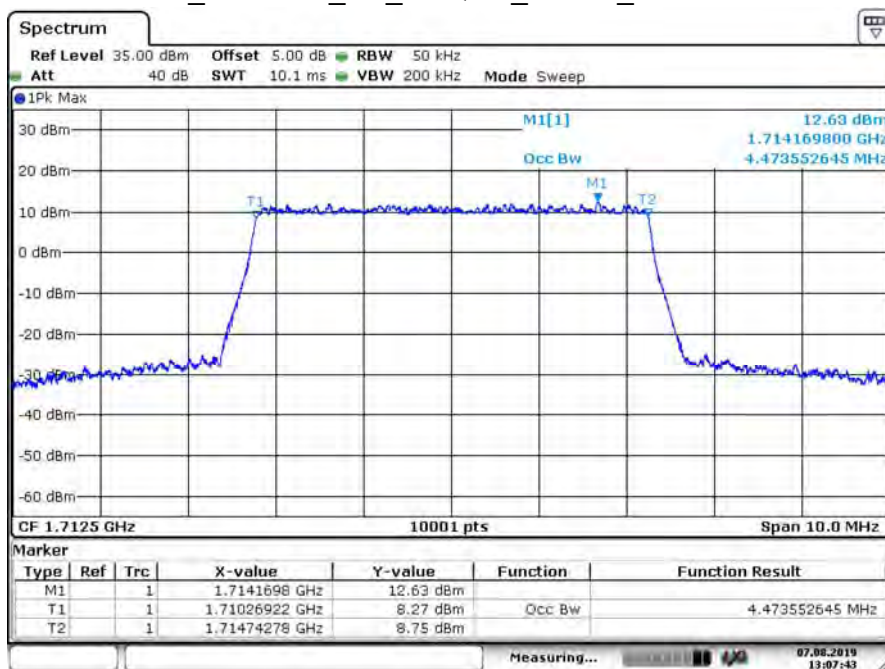
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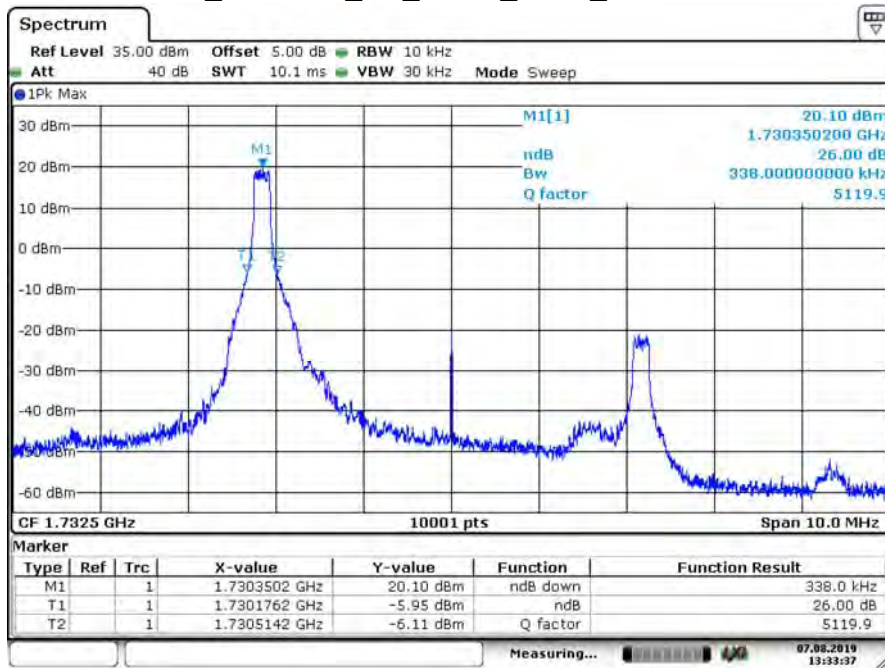
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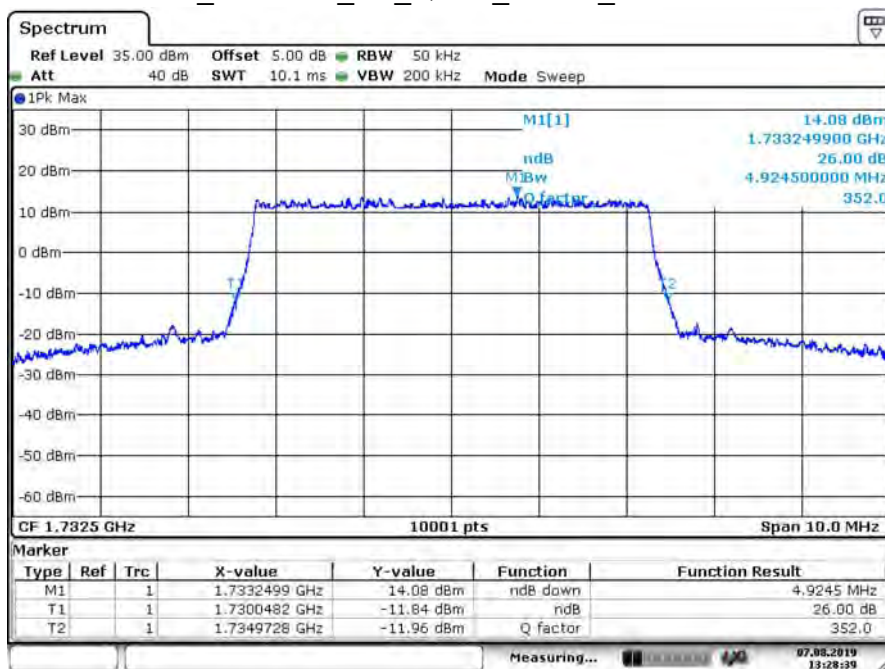
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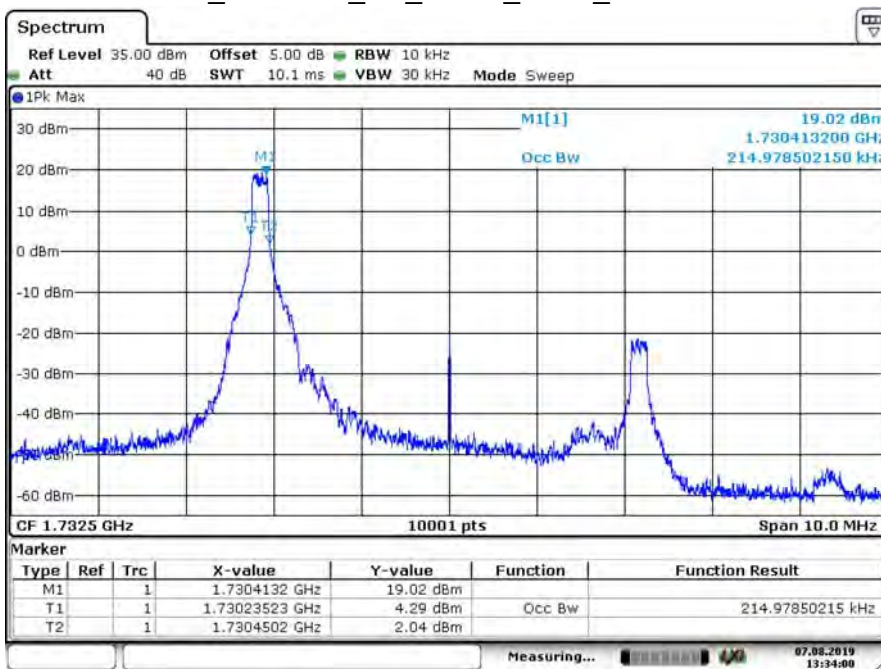
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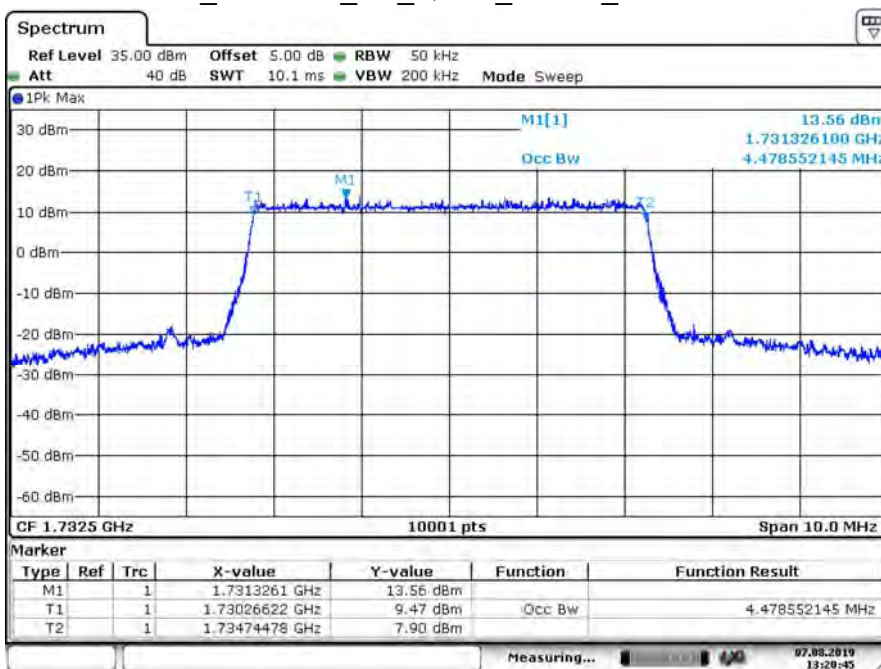
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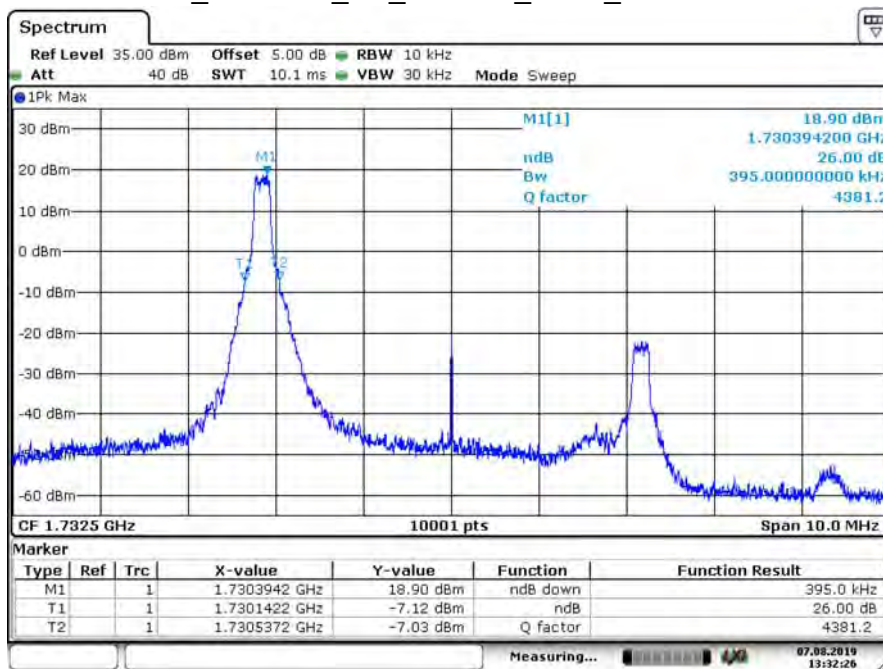
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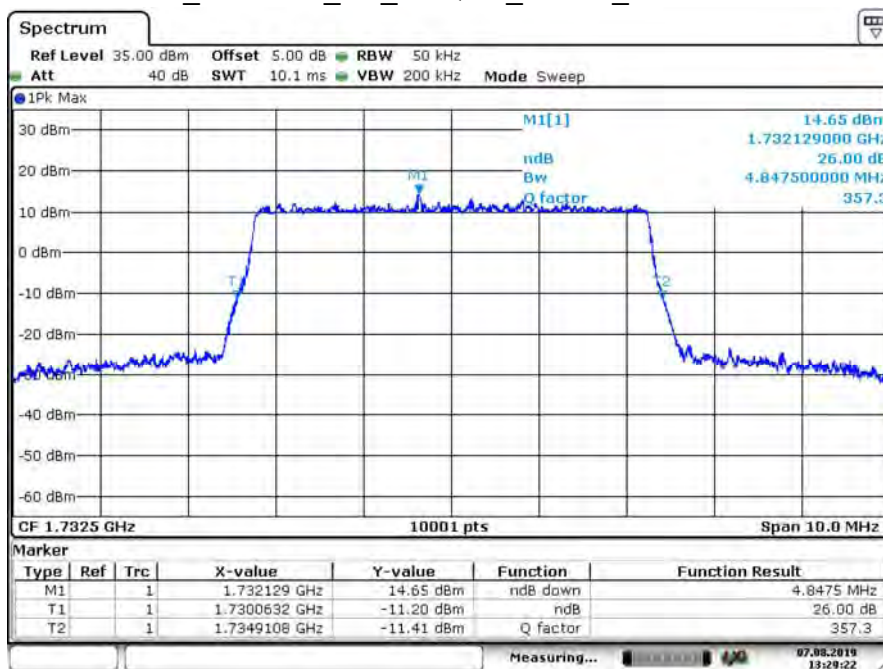
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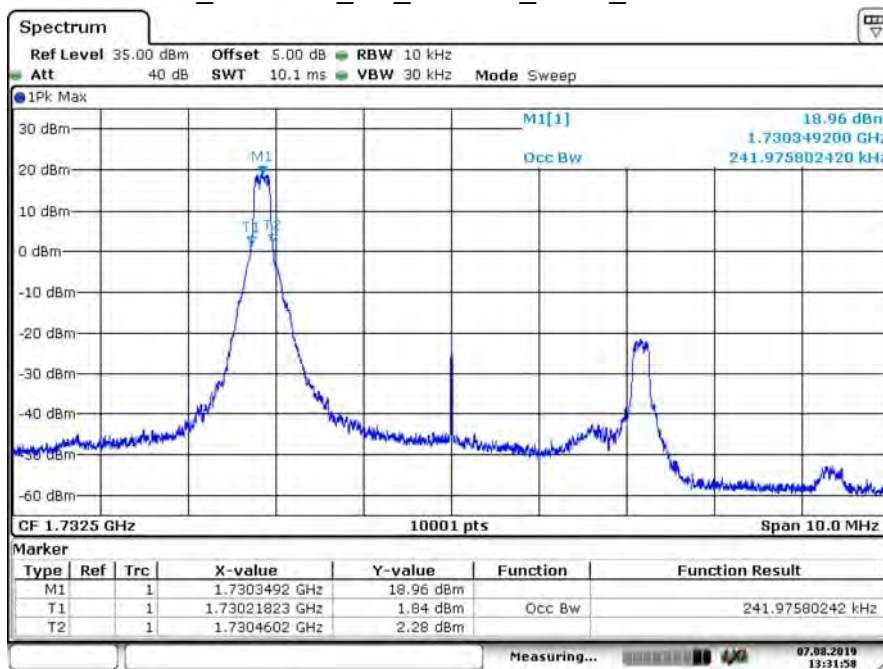
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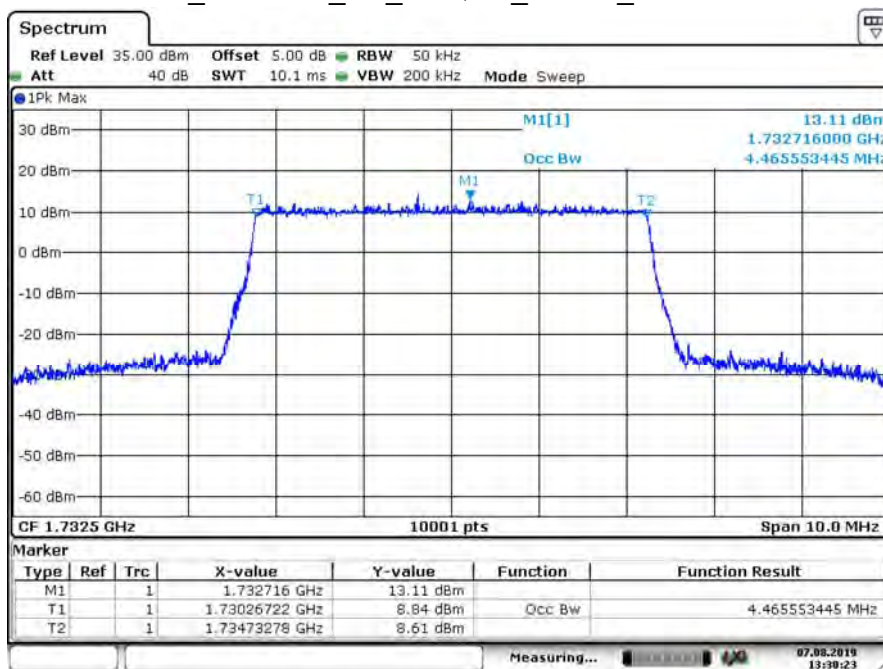
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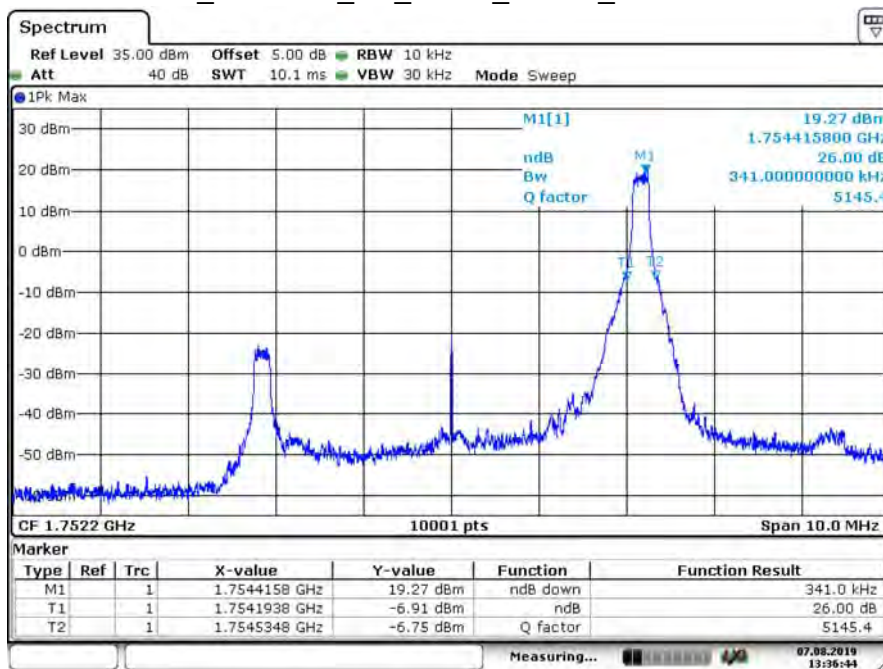
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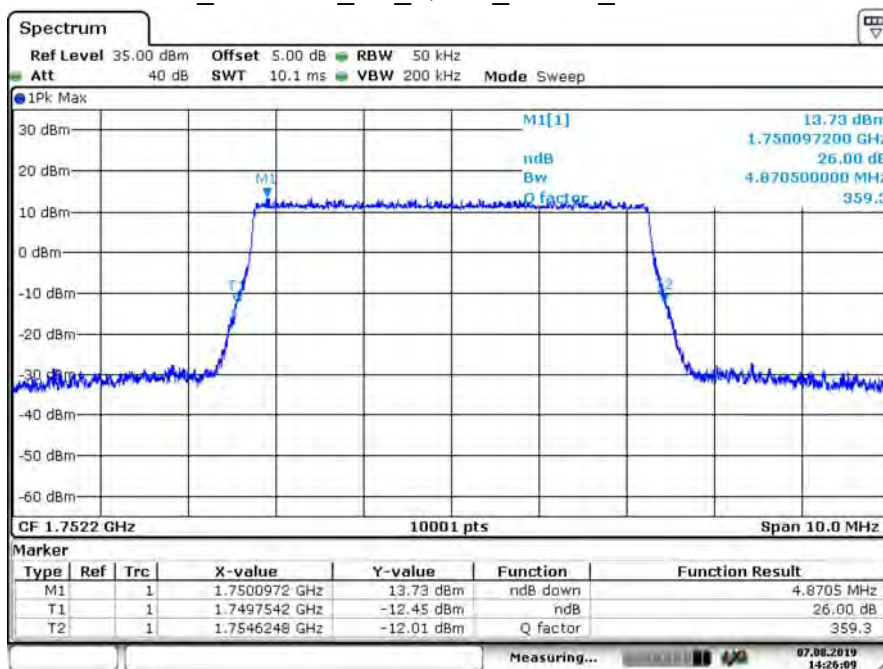


B4\_CH20372\_5M\_QPSK\_1RB24\_26dB BW



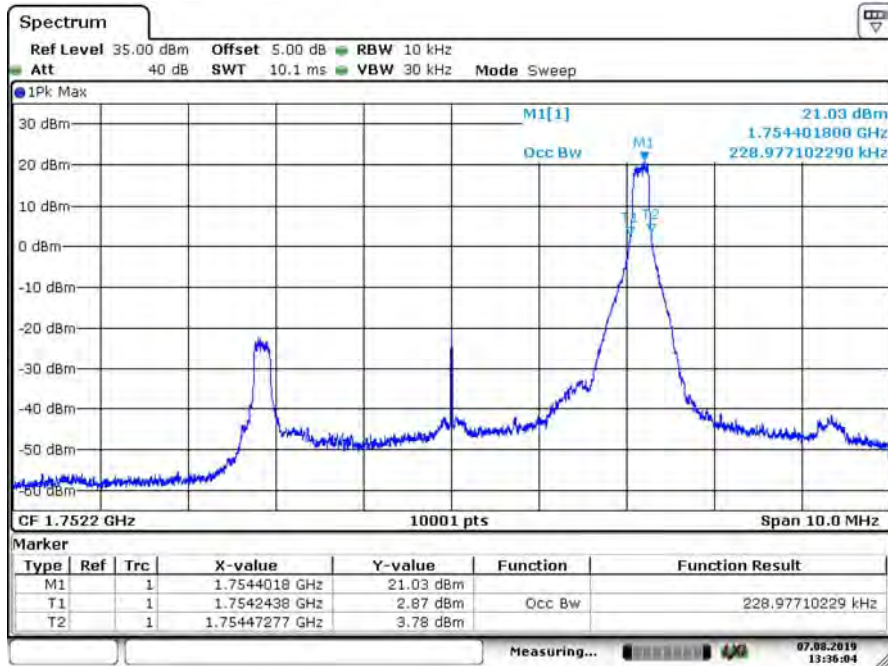
Date: 7.AUG 2019 13:36:44

B4\_CH20372\_5M\_QPSK\_25RB0\_26dB BW



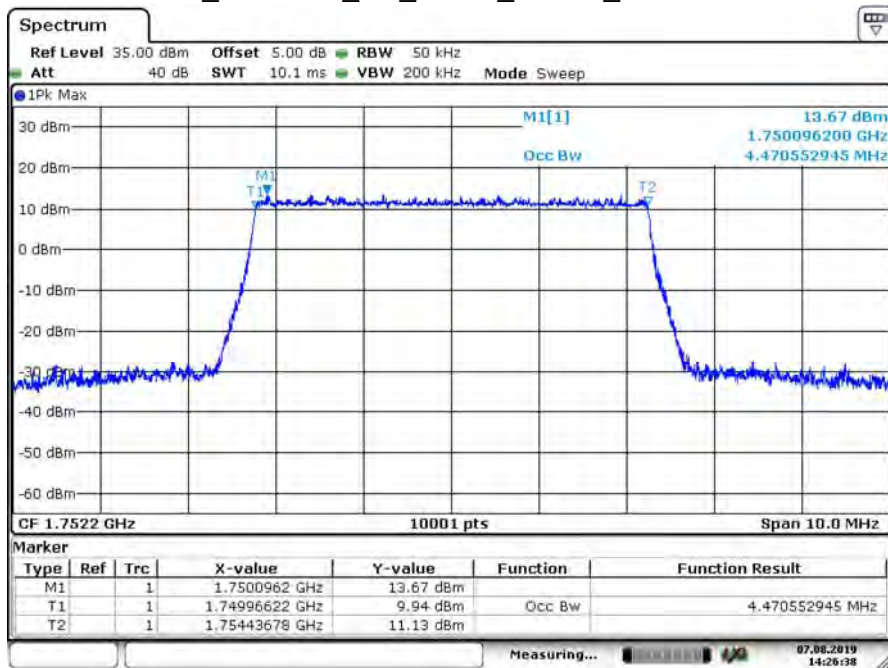
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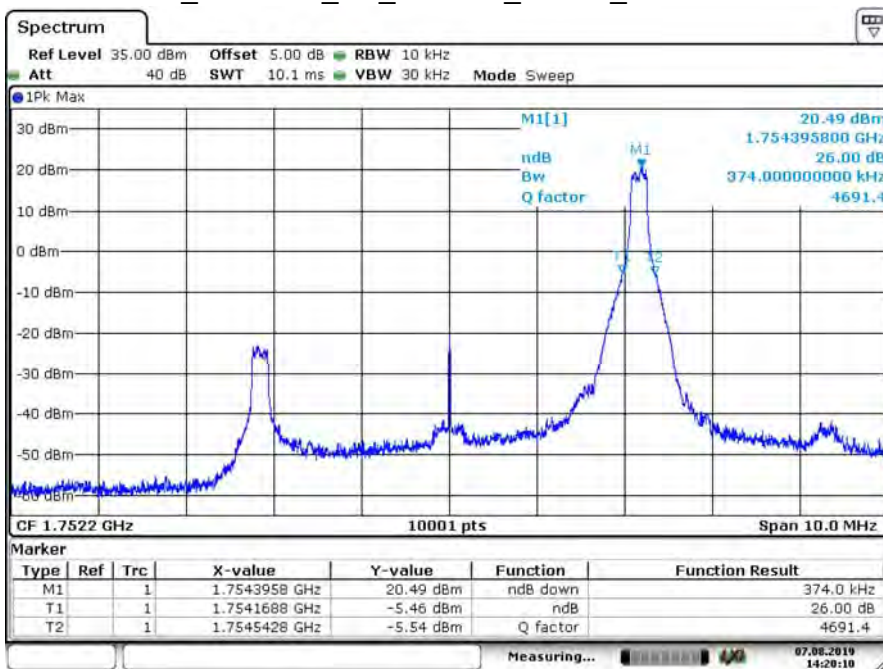
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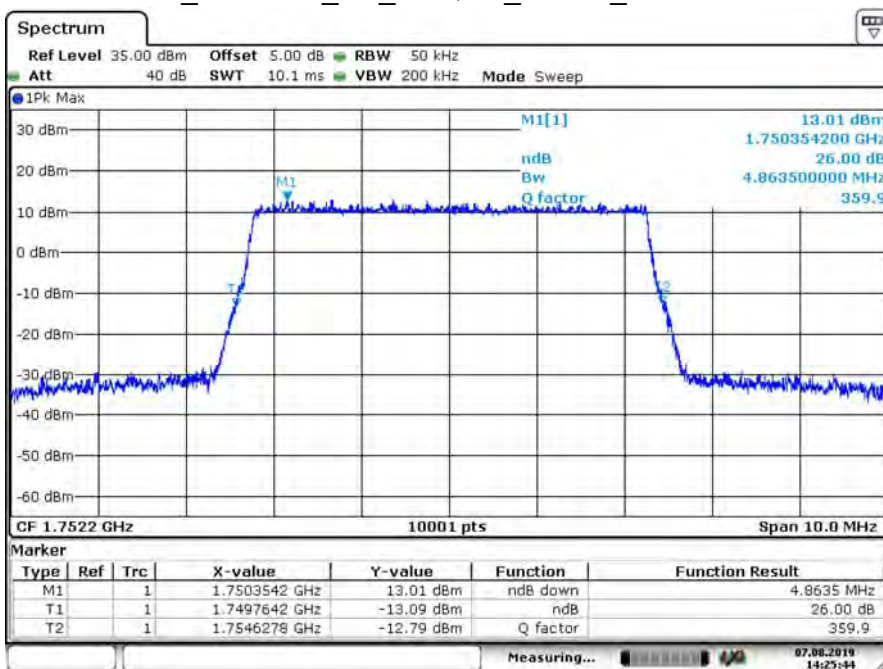
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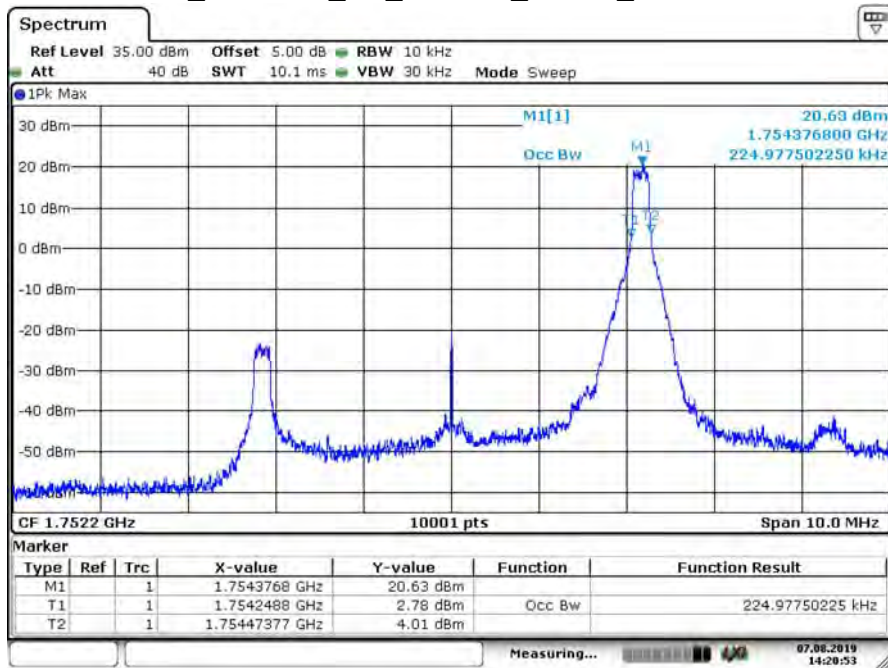
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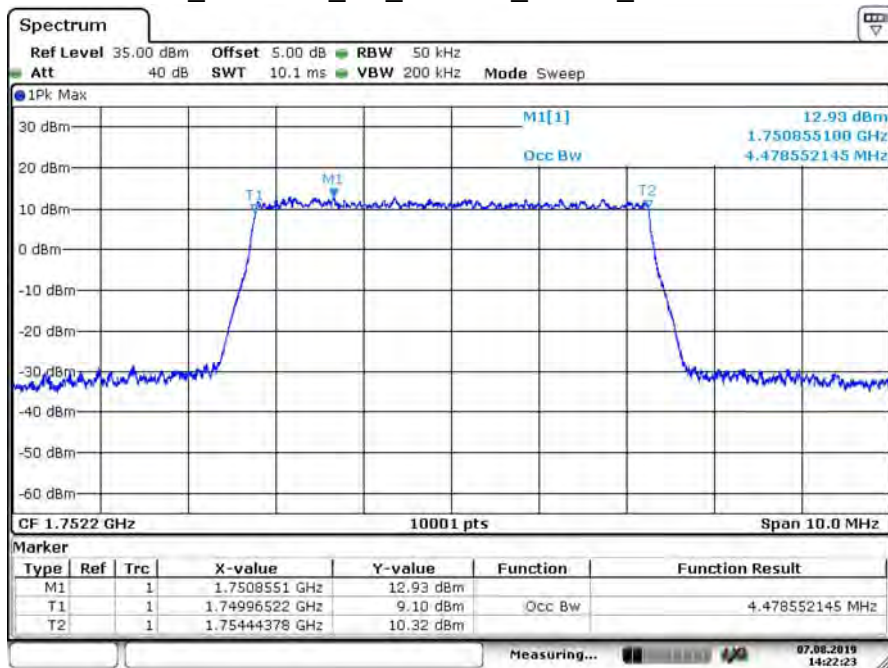
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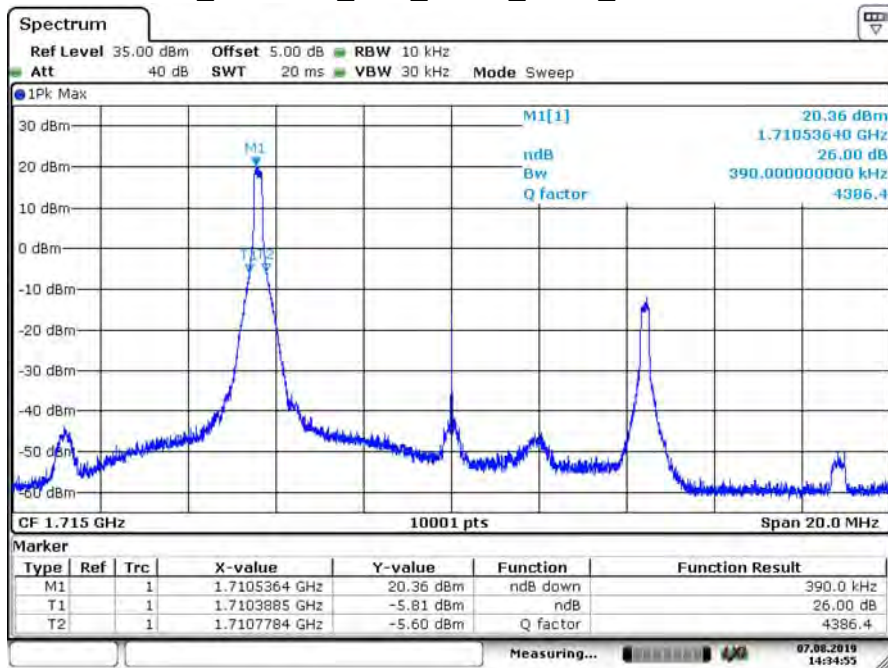
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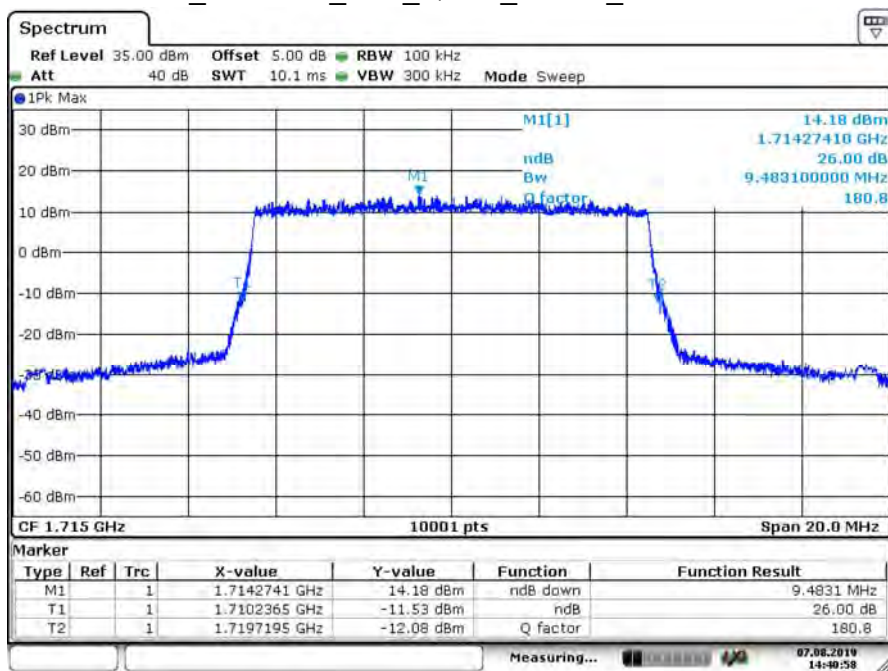
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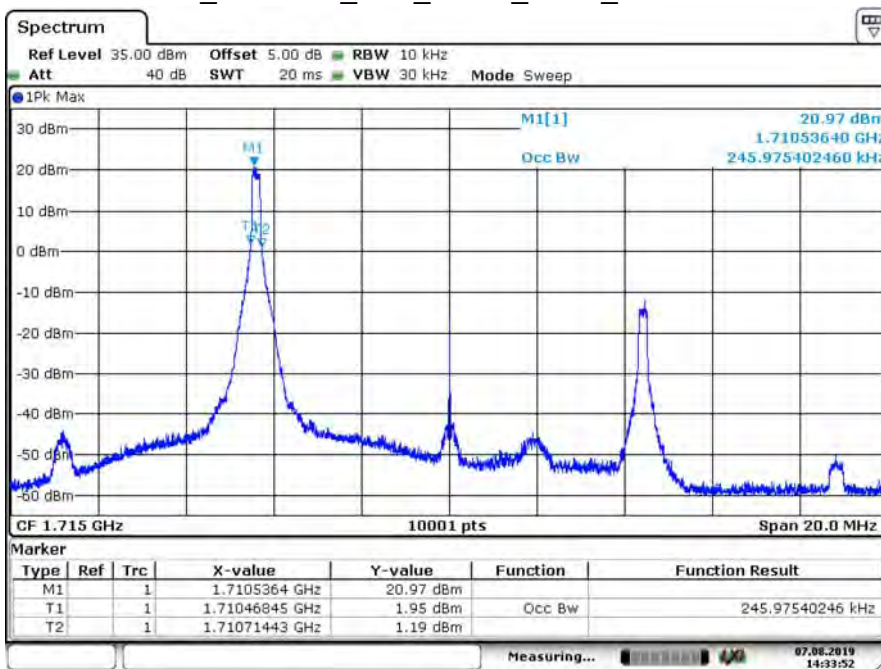
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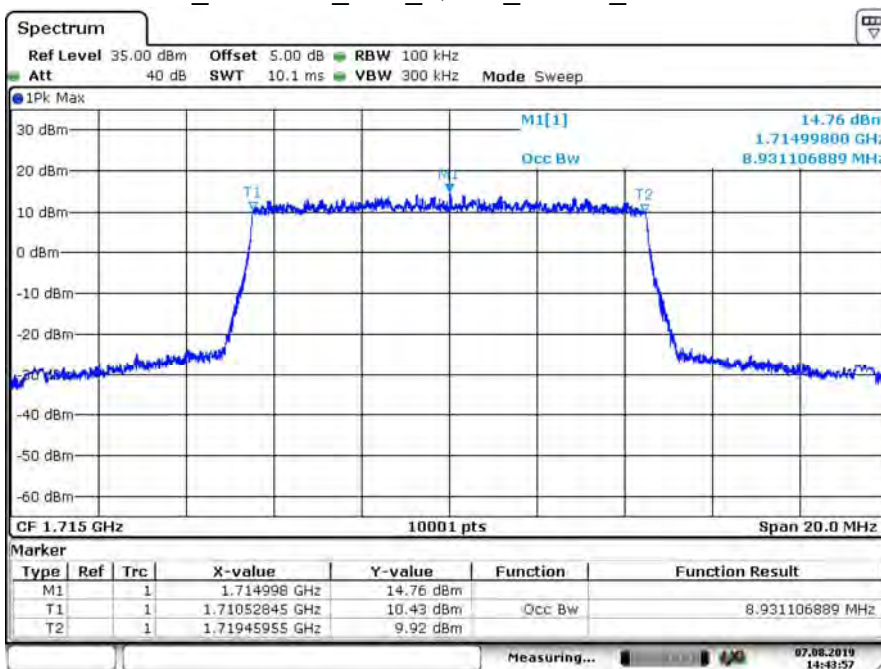
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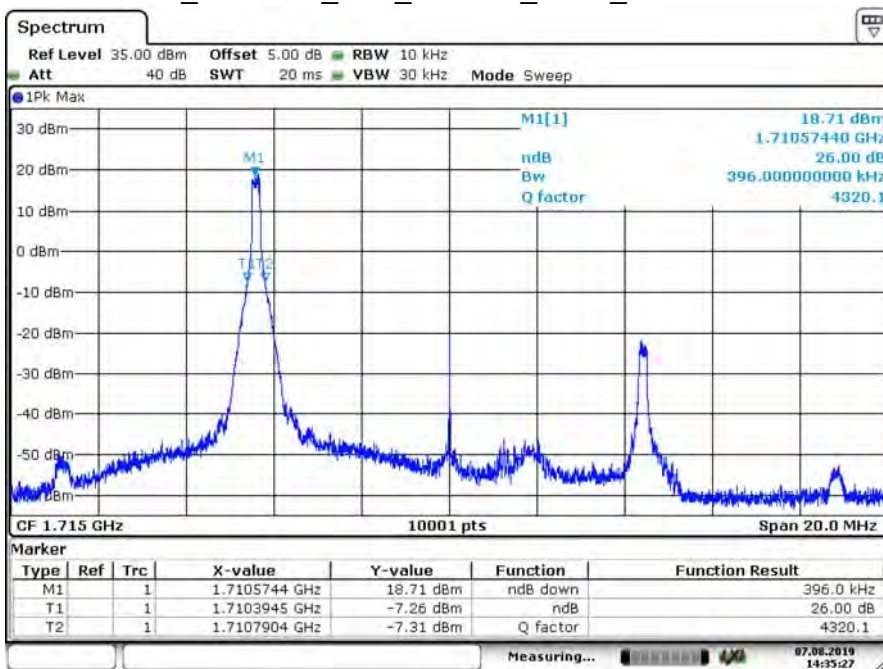
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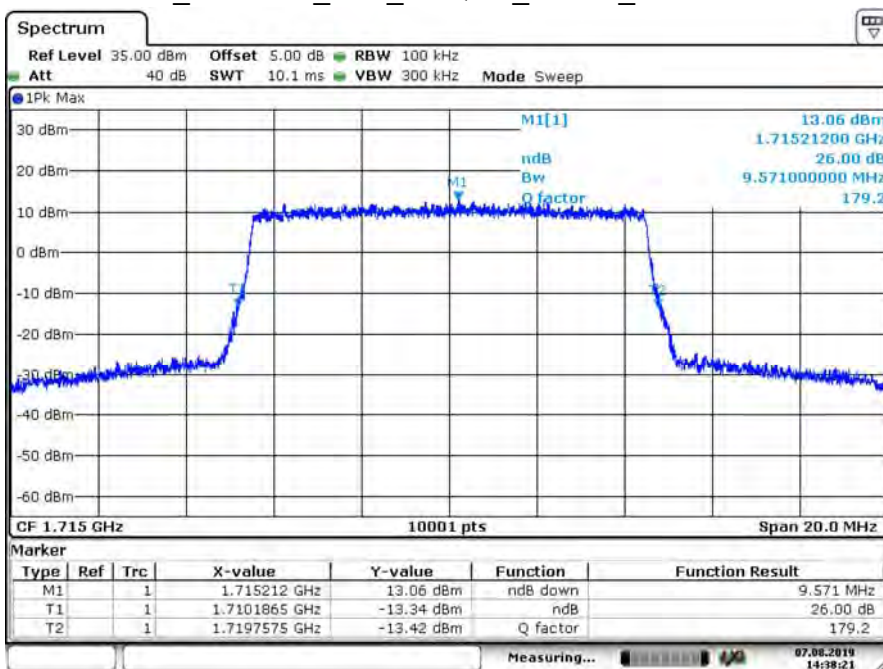
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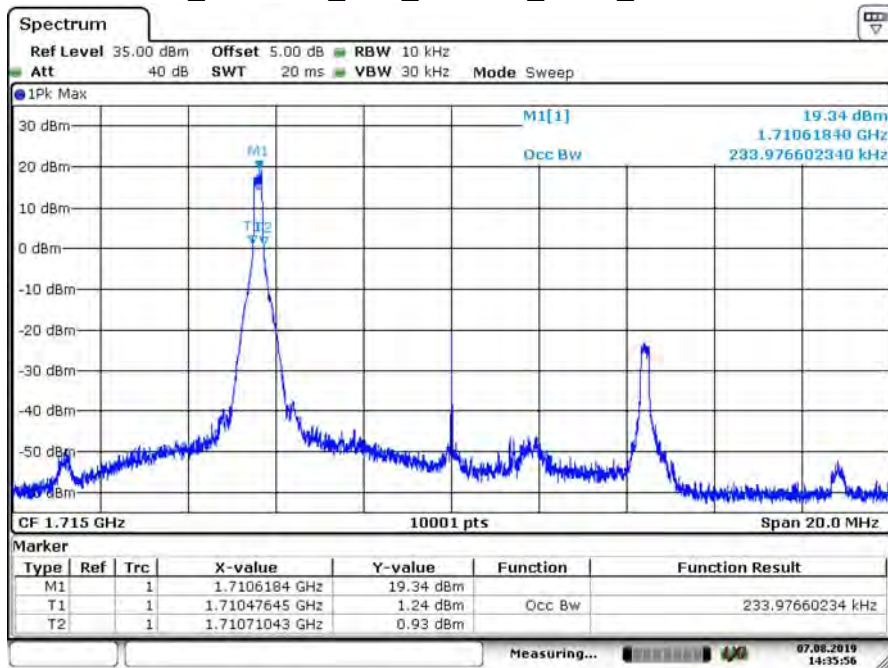
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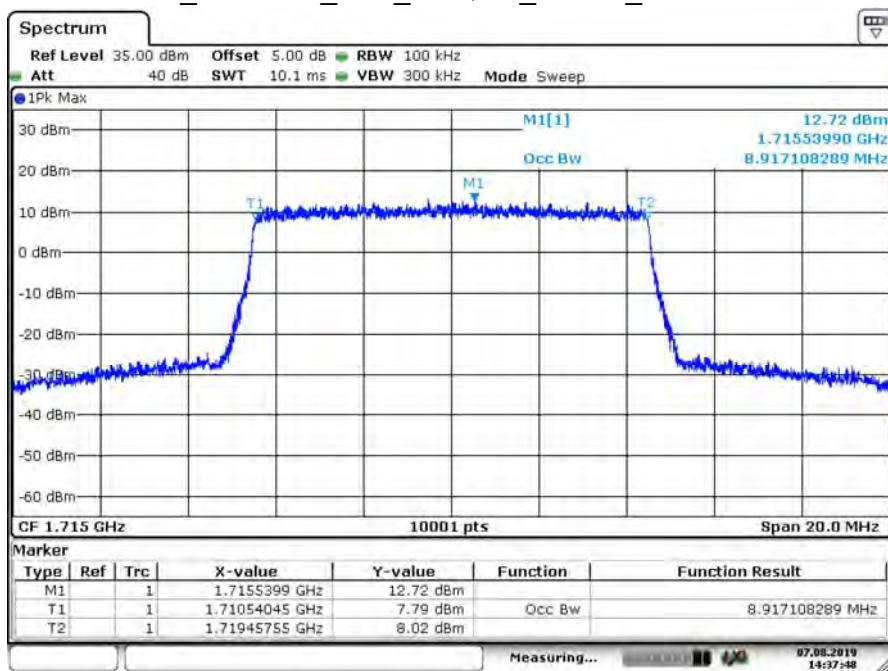
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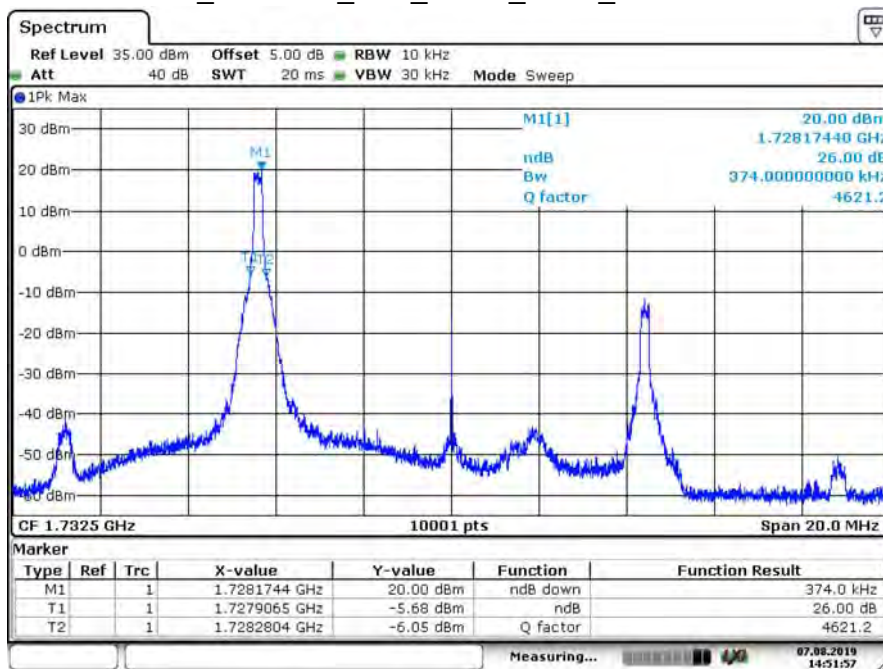
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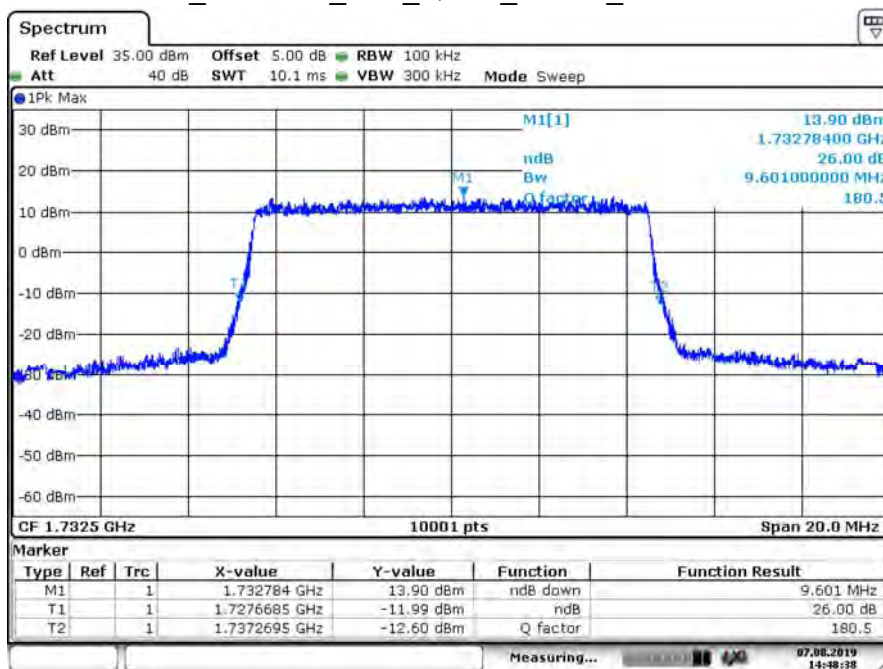


B4\_CH20175\_10M\_QPSK\_1RB0\_26dB BW



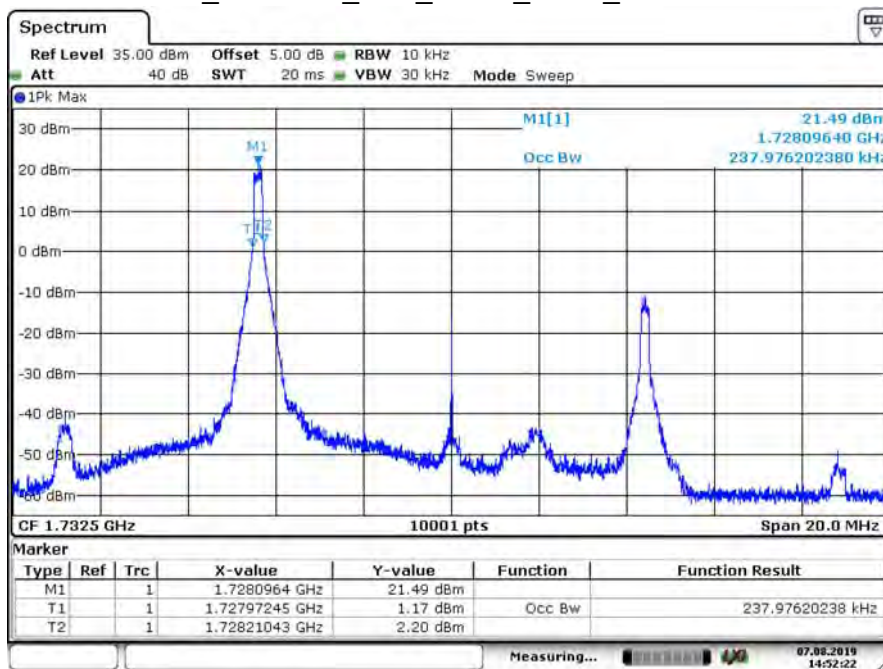
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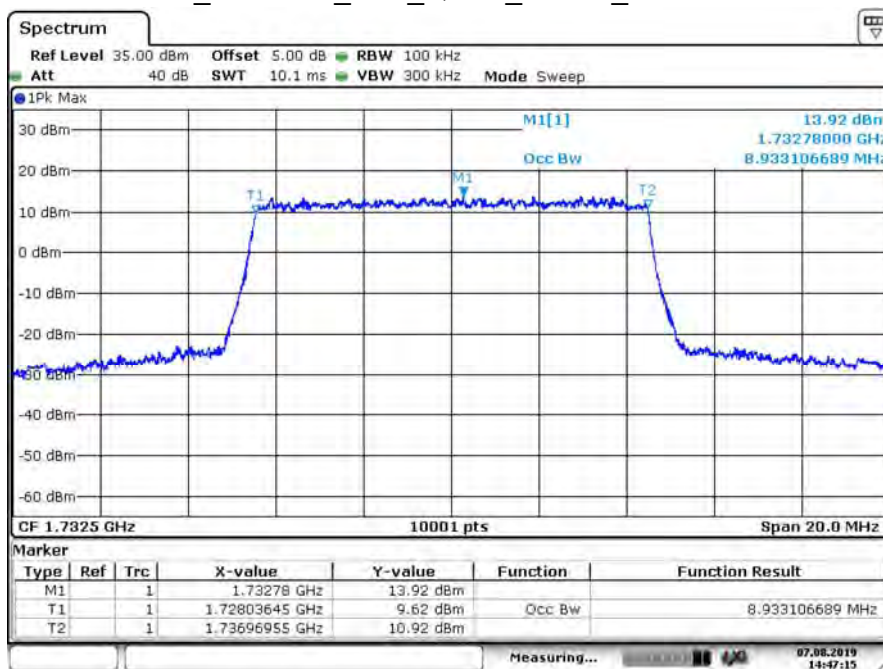


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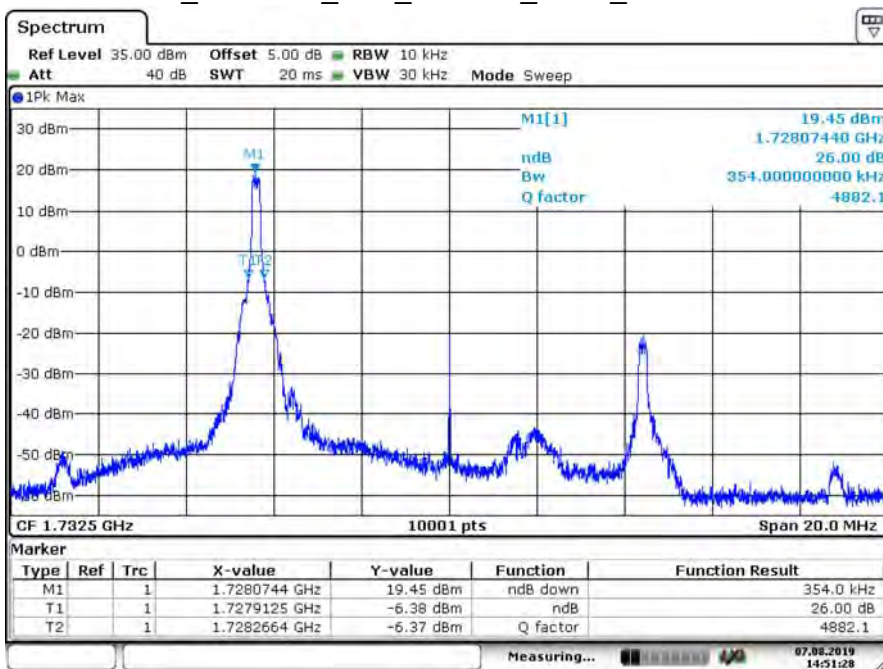
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B4\_CH20175\_10M\_QPSK\_50RB0\_99% BW

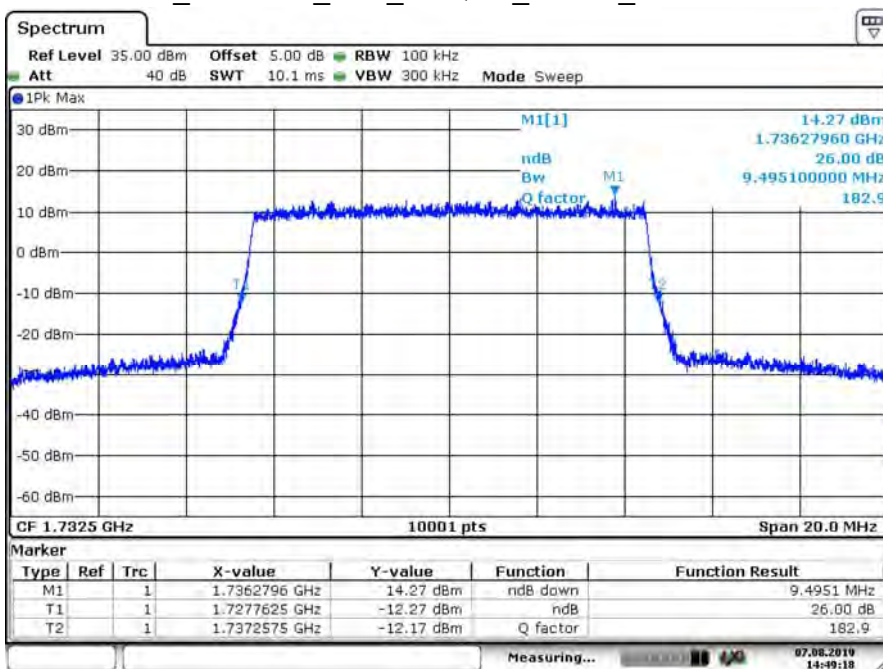


B4\_CH20175\_10M\_16-QAM\_1RB0\_26dB BW



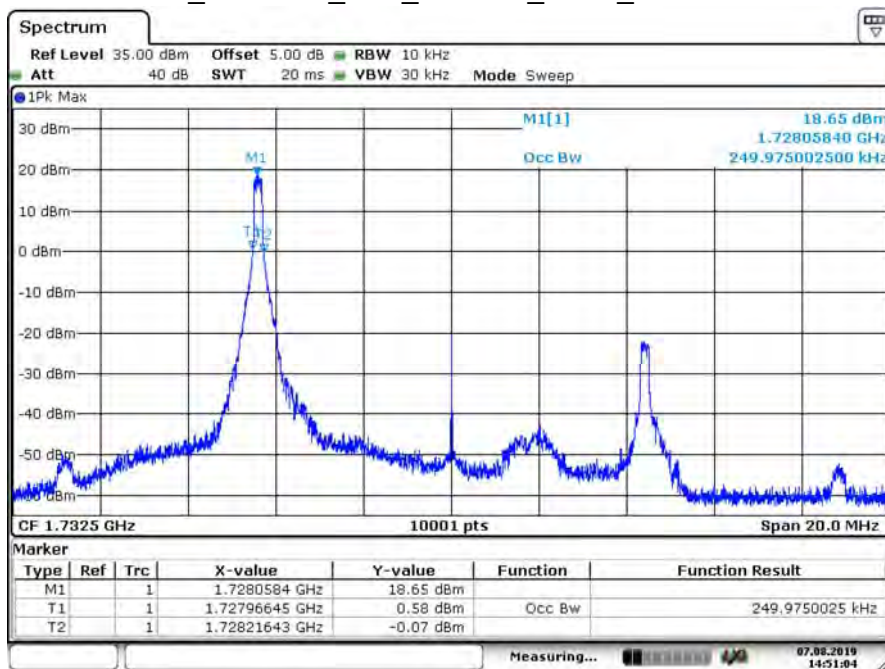
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B4\_CH20175\_10M\_16-QAM\_50RB0\_26dB BW



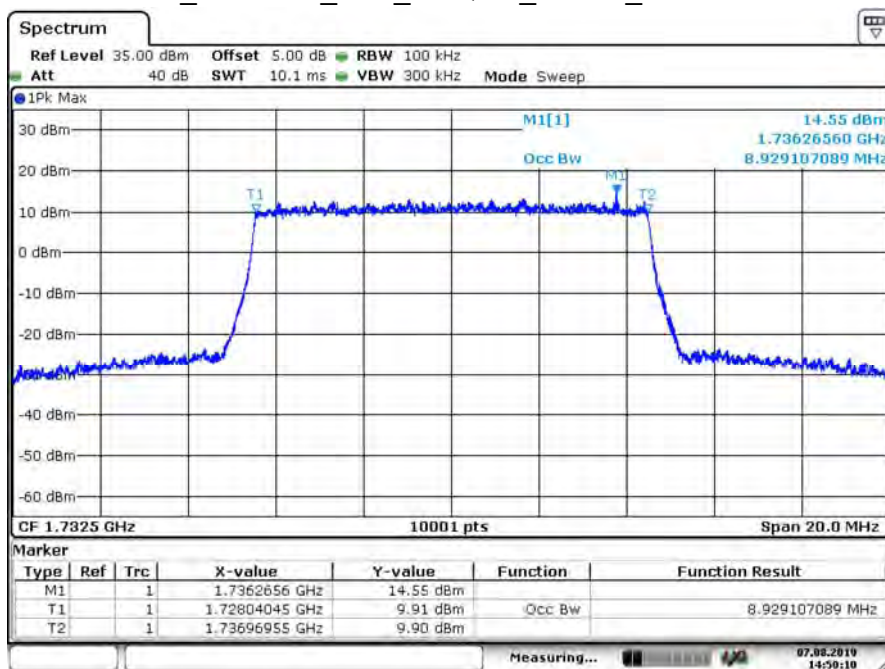
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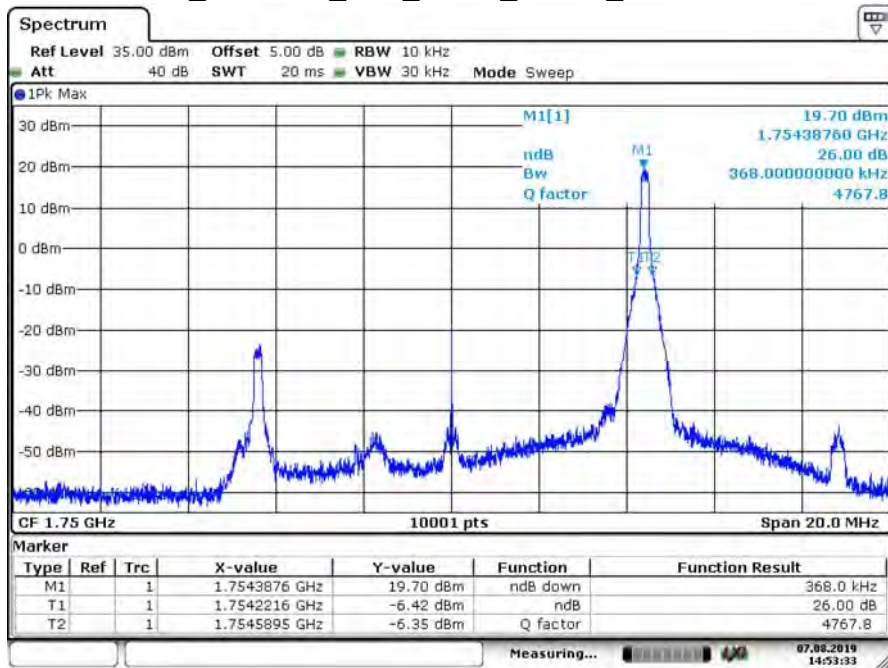
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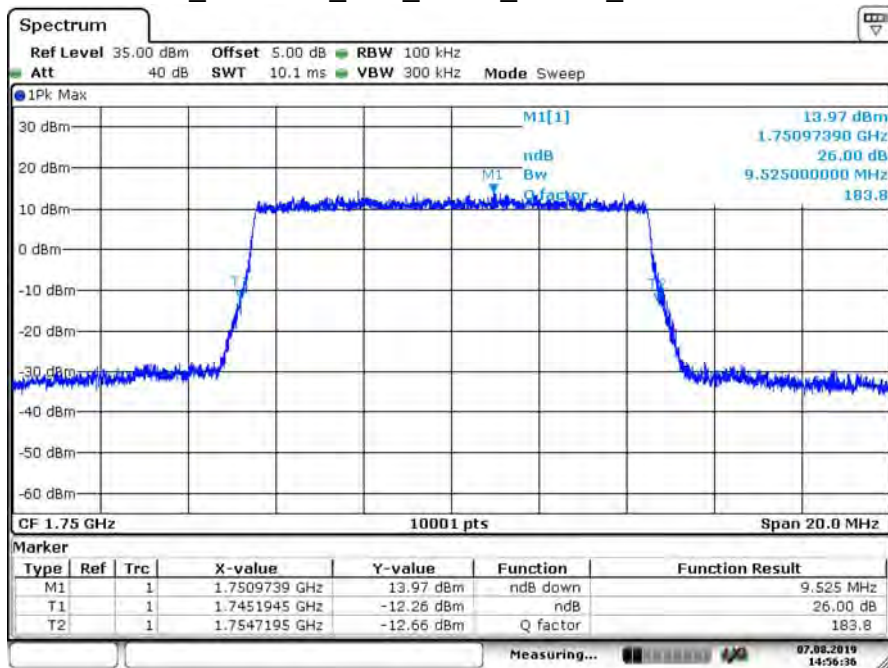
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B4\_CH20350\_10M\_QPSK\_1RB49\_26dB BW



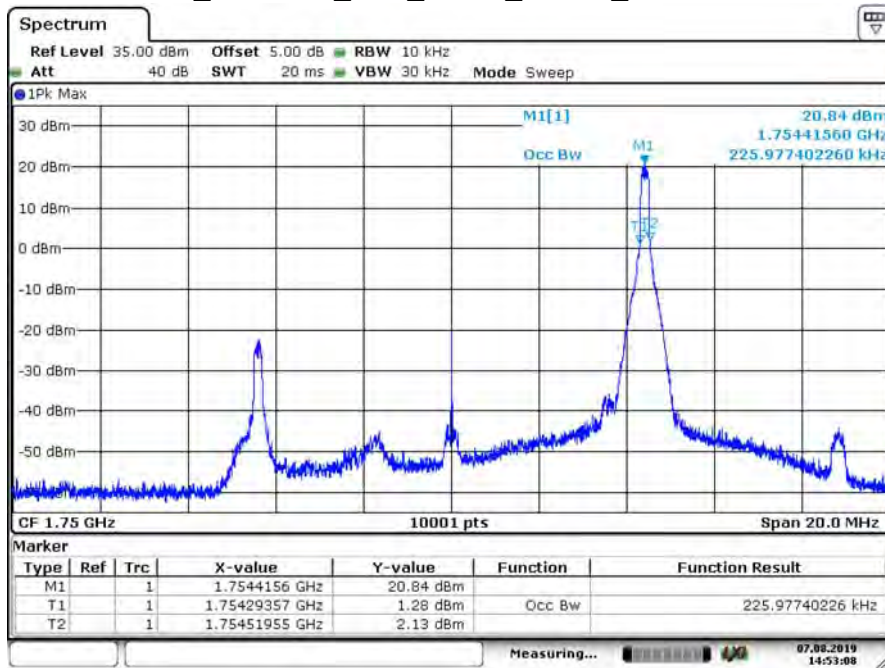
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B4\_CH20350\_10M\_QPSK\_50RB0\_26dB BW



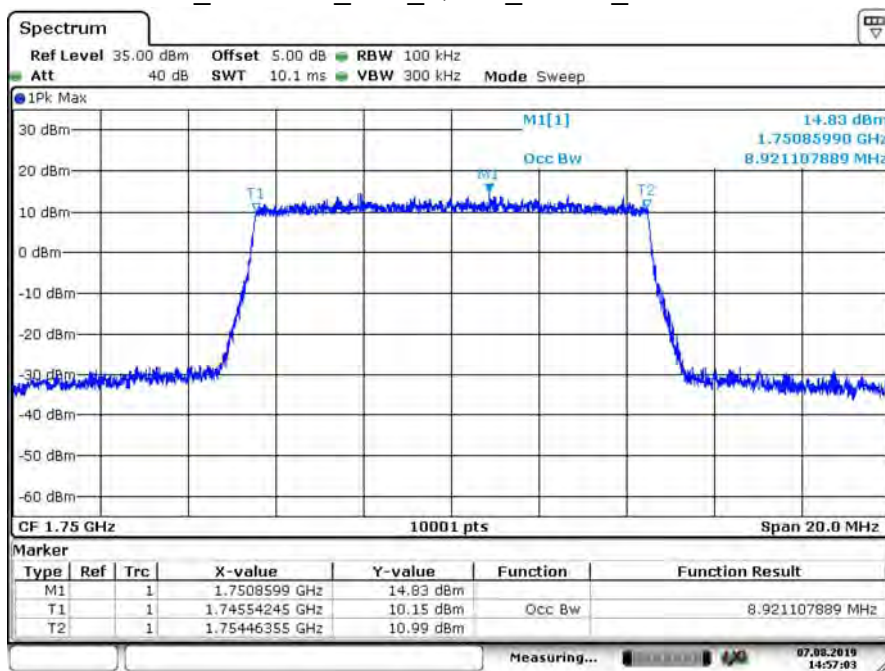
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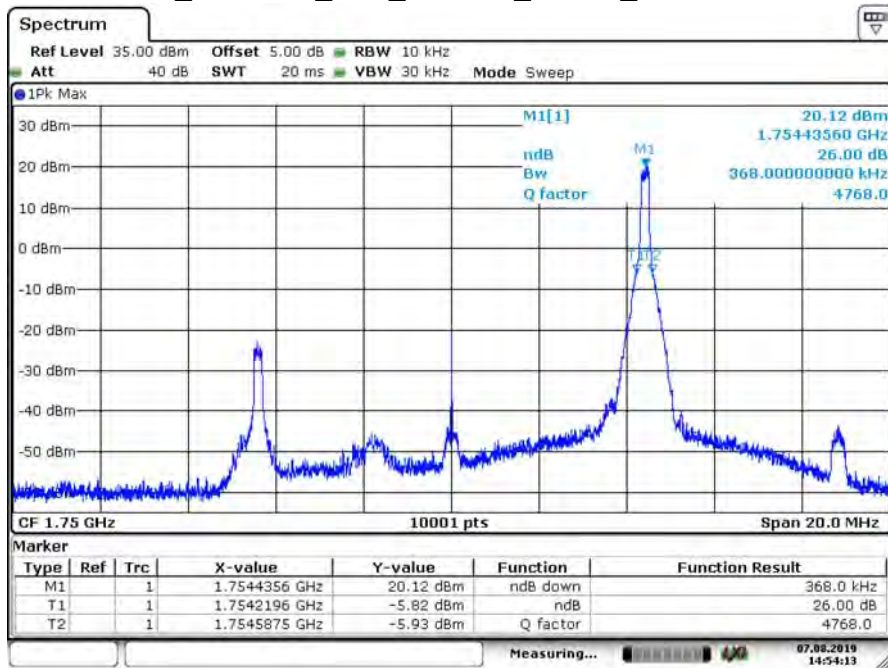
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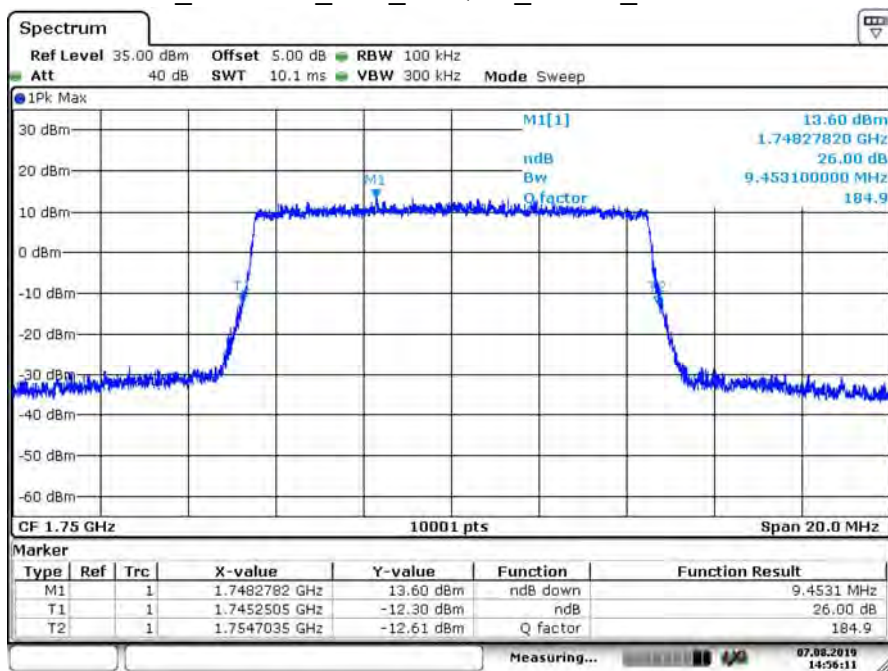
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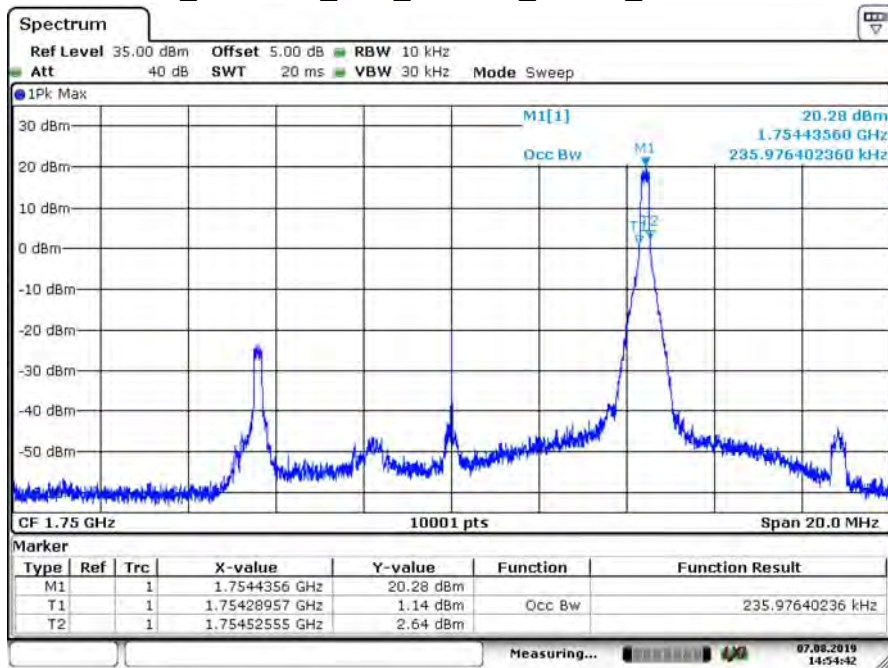
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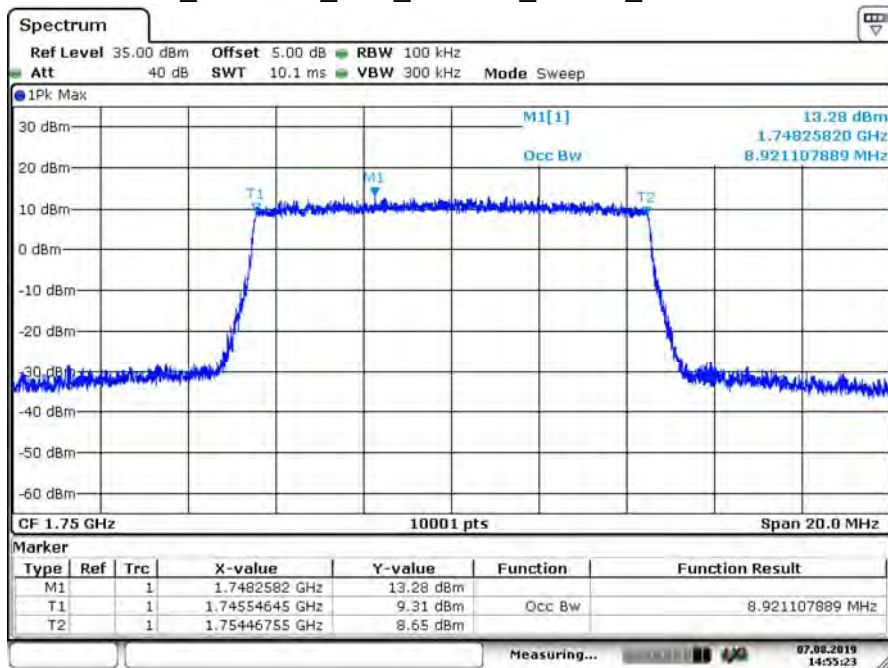
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Date: 7.AUG 2019 14:54:42

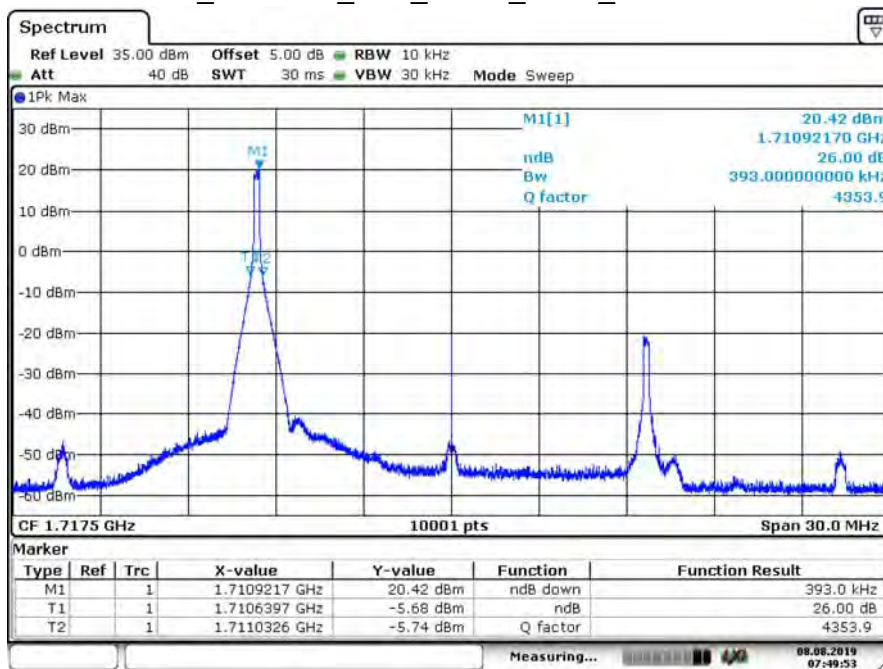
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Date: 7.AUG 2019 14:55:24

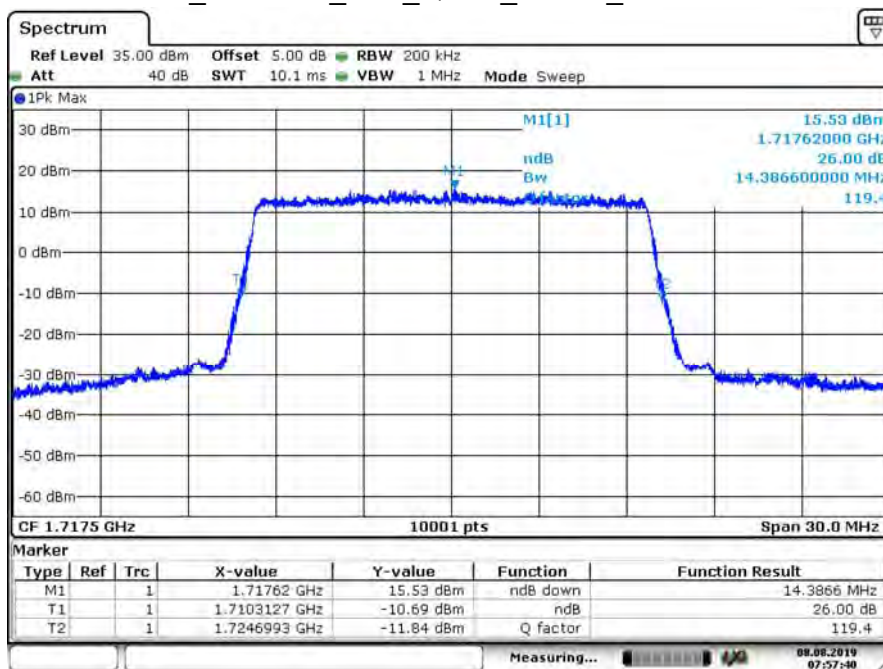


B4\_CH20025\_15M\_QPSK\_1RB0\_26dB BW



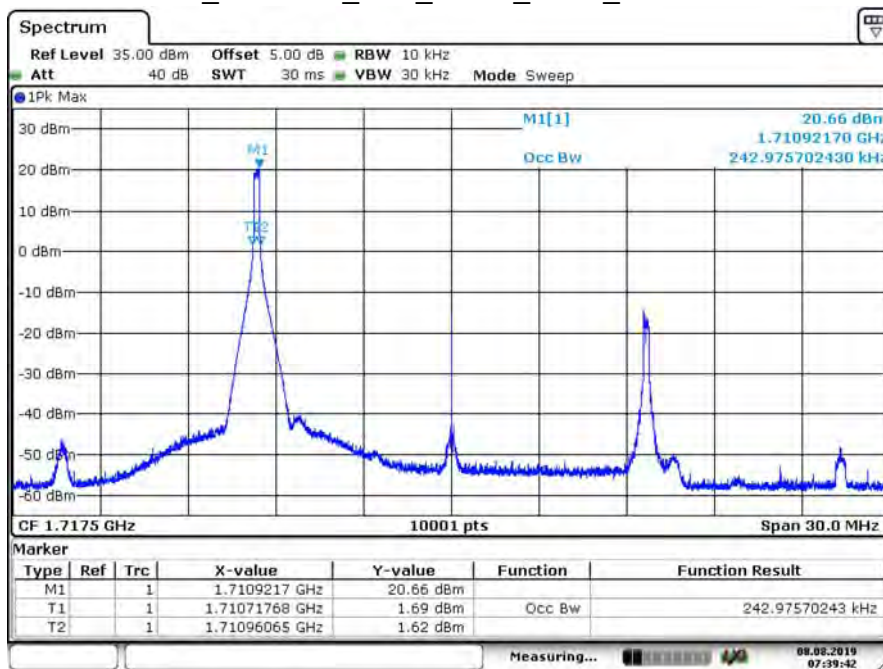
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B4\_CH20025\_15M\_QPSK\_75RB0\_26dB BW



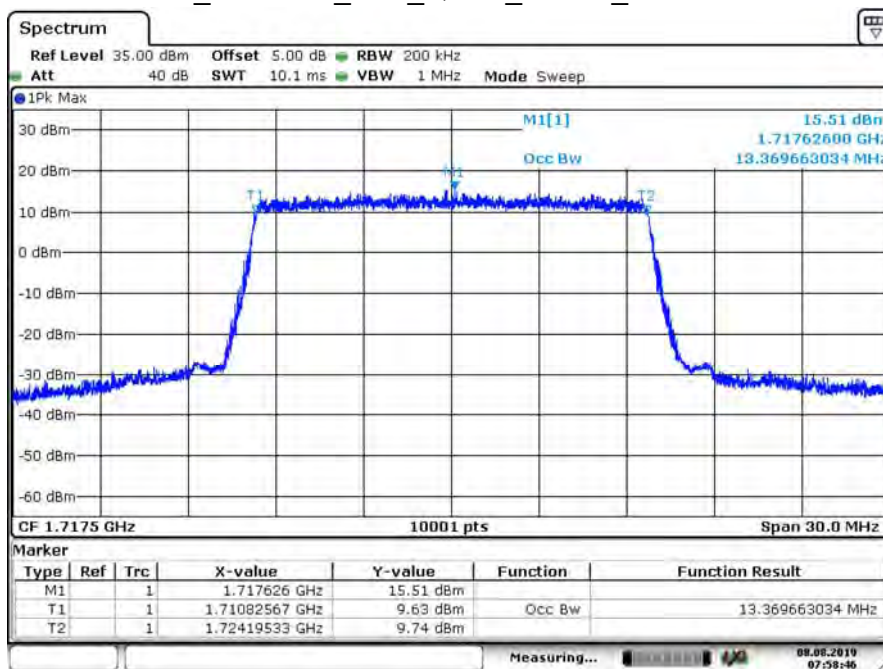
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B4\_CH20025\_15M\_QPSK\_1RB0\_99% BW



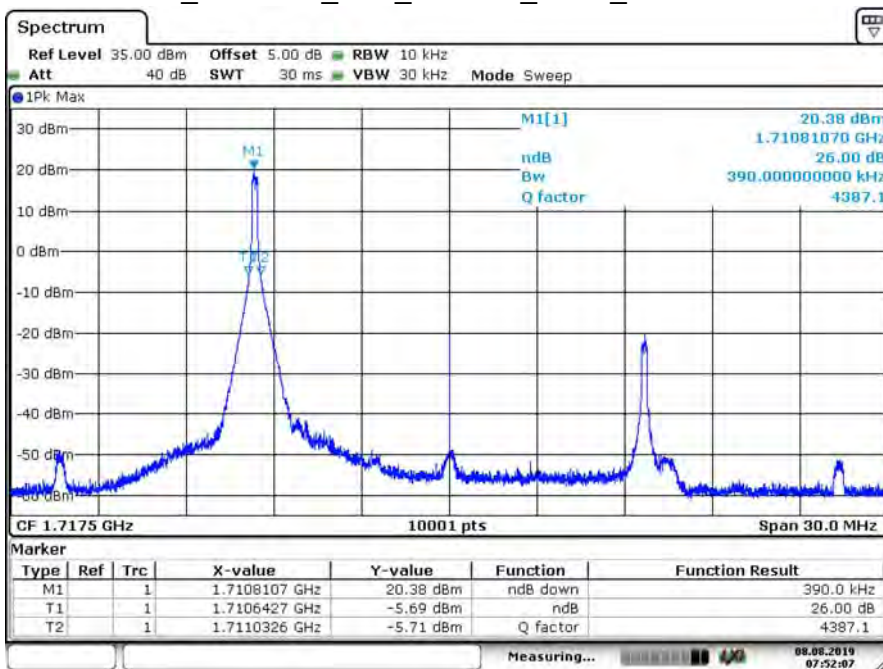
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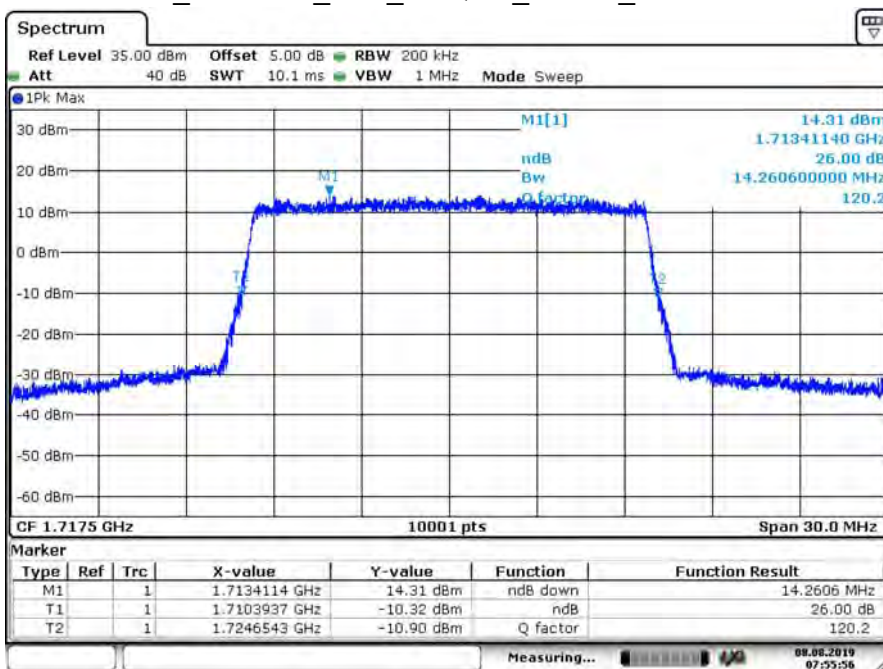
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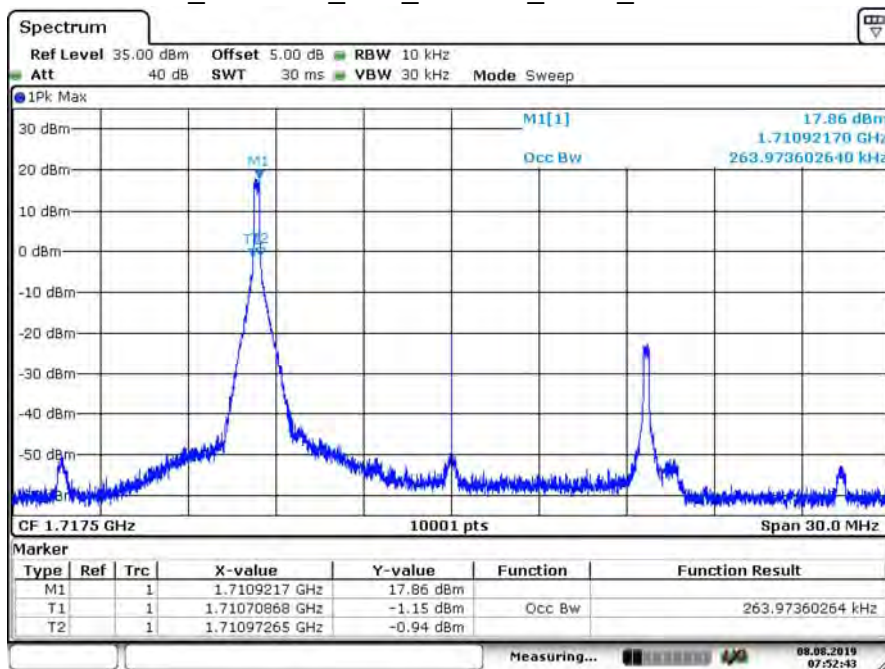
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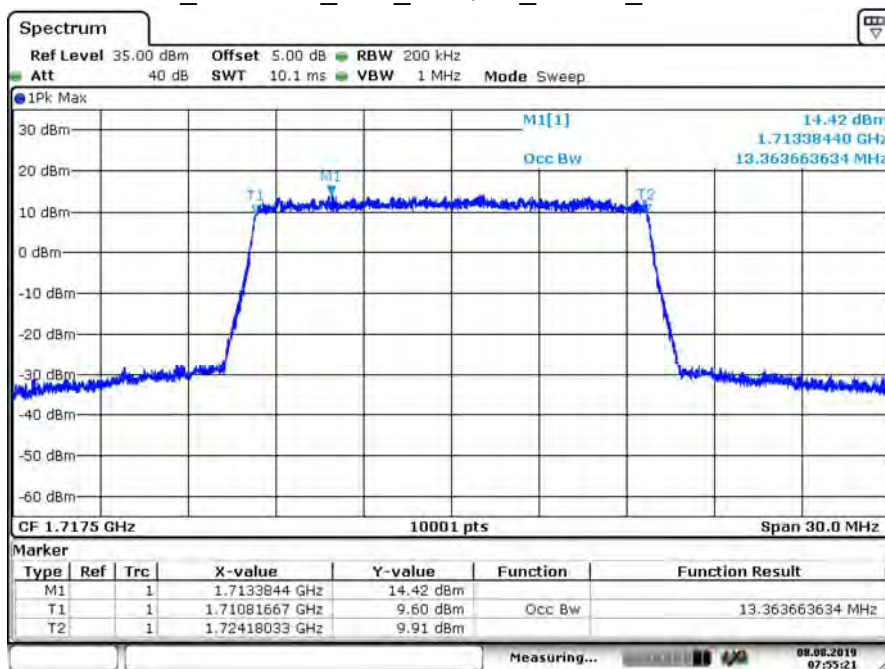


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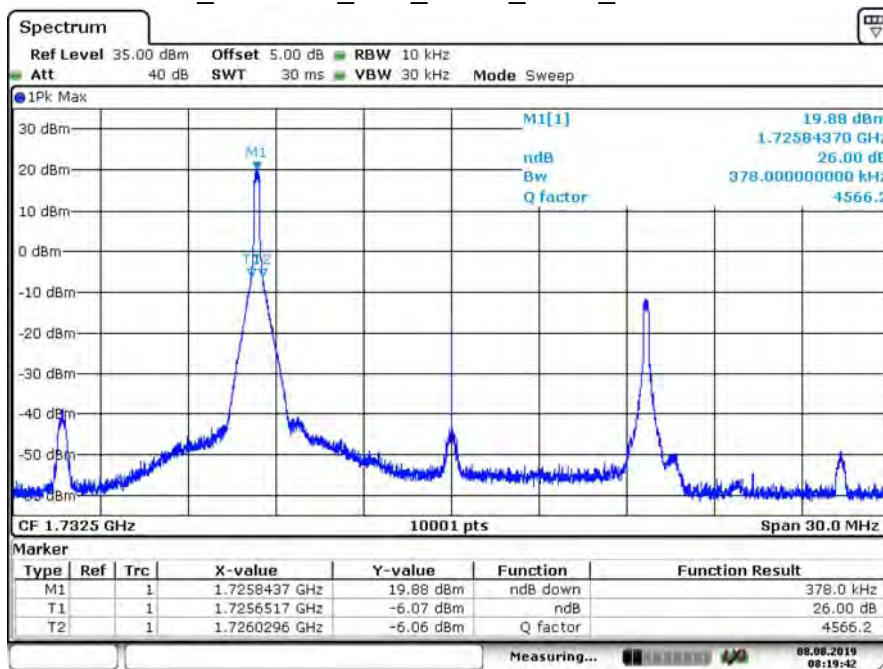
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B4\_CH20025\_15M\_16-QAM\_75RB0\_99% BW

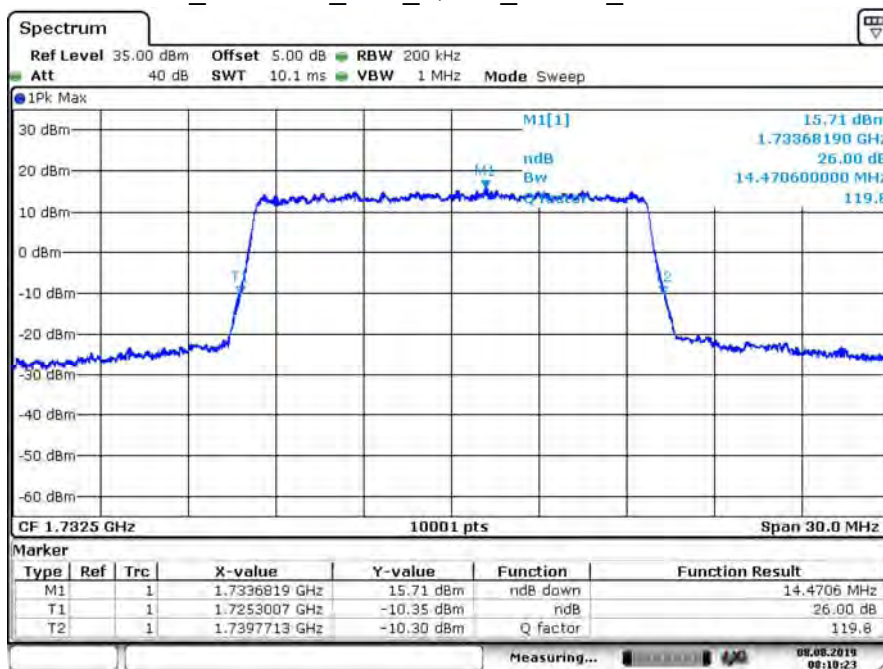


B4\_CH20175\_15M\_QPSK\_1RB0\_26dB BW



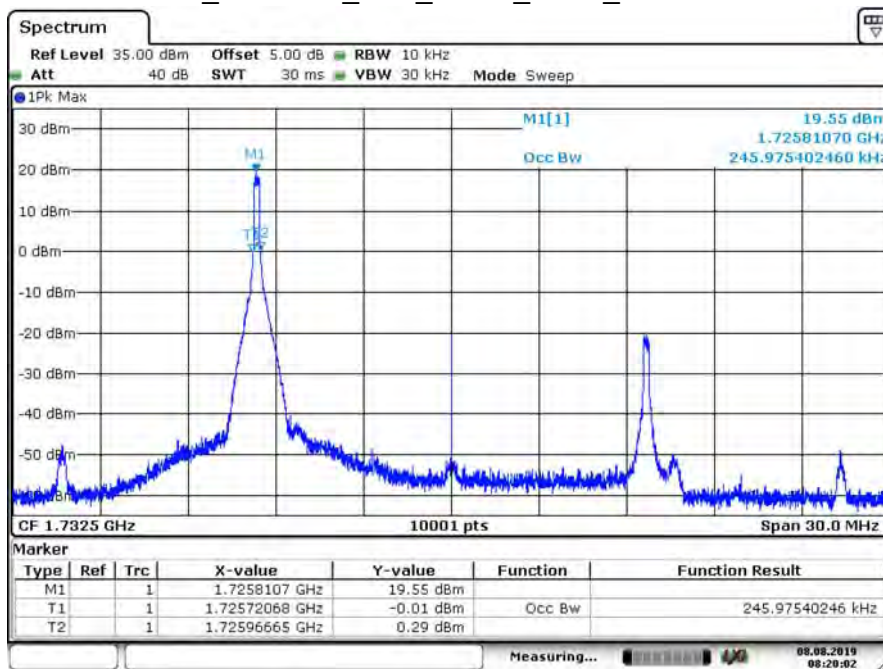
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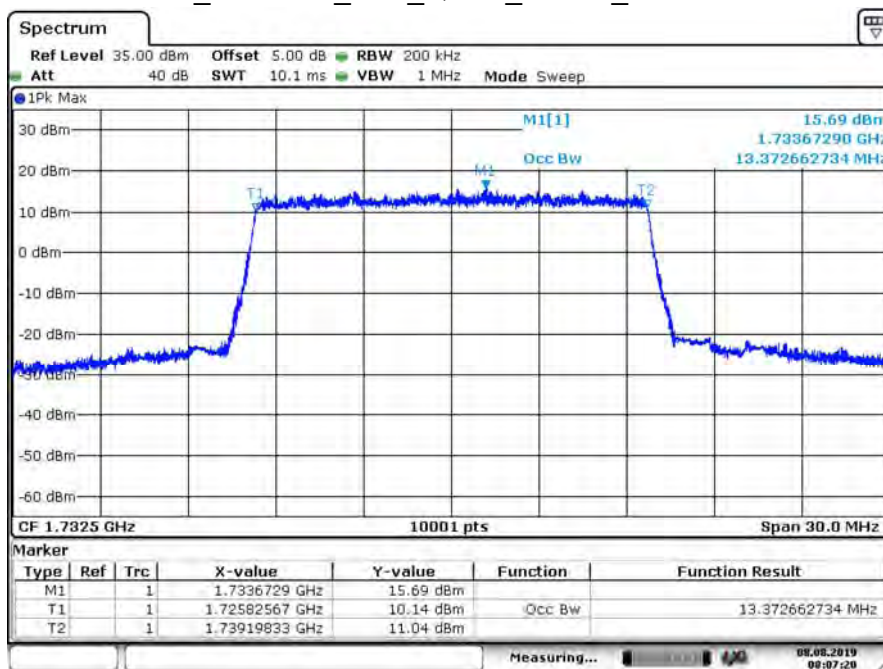
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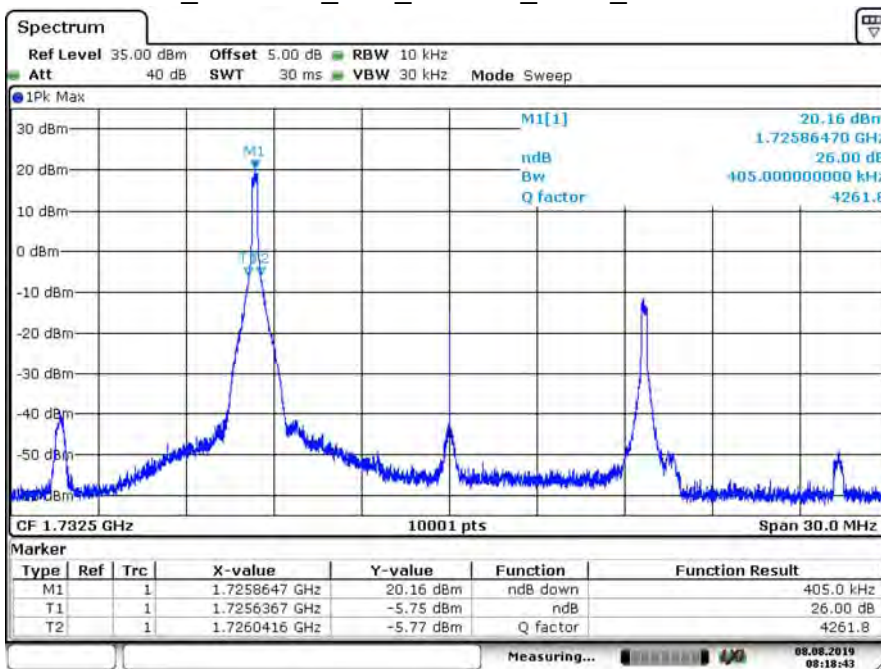
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B4\_CH20175\_15M\_QPSK\_75RB0\_99% BW



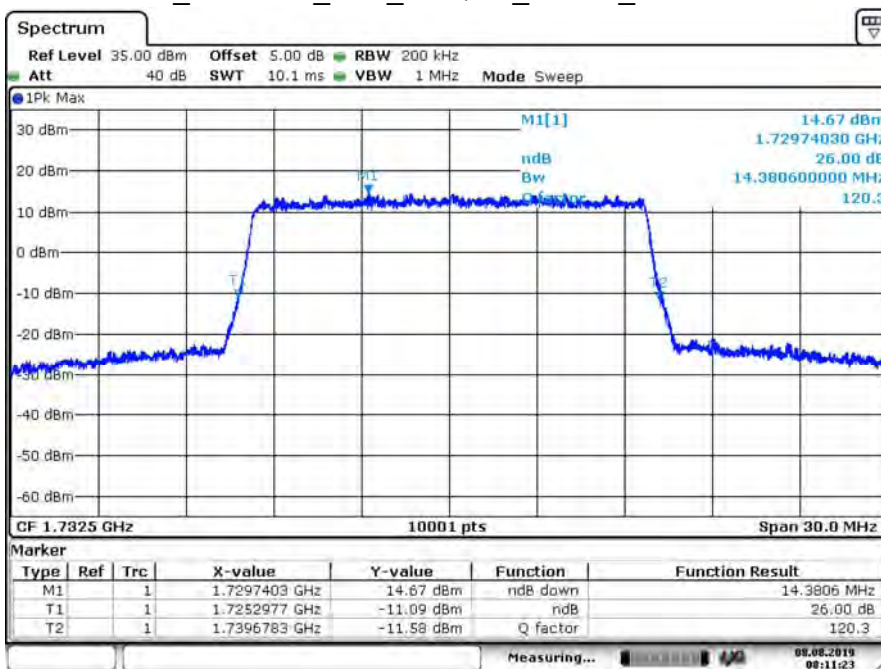
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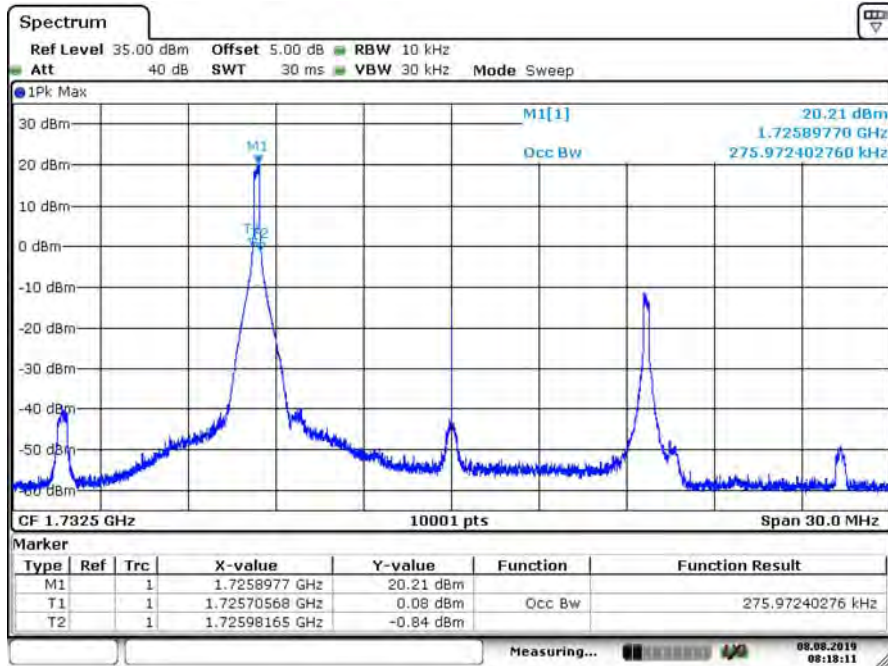
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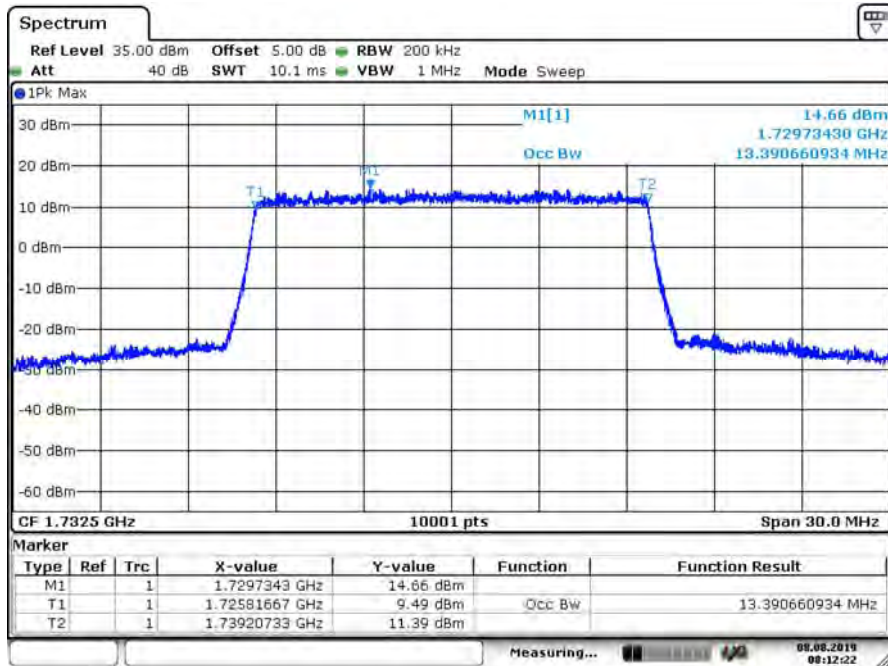
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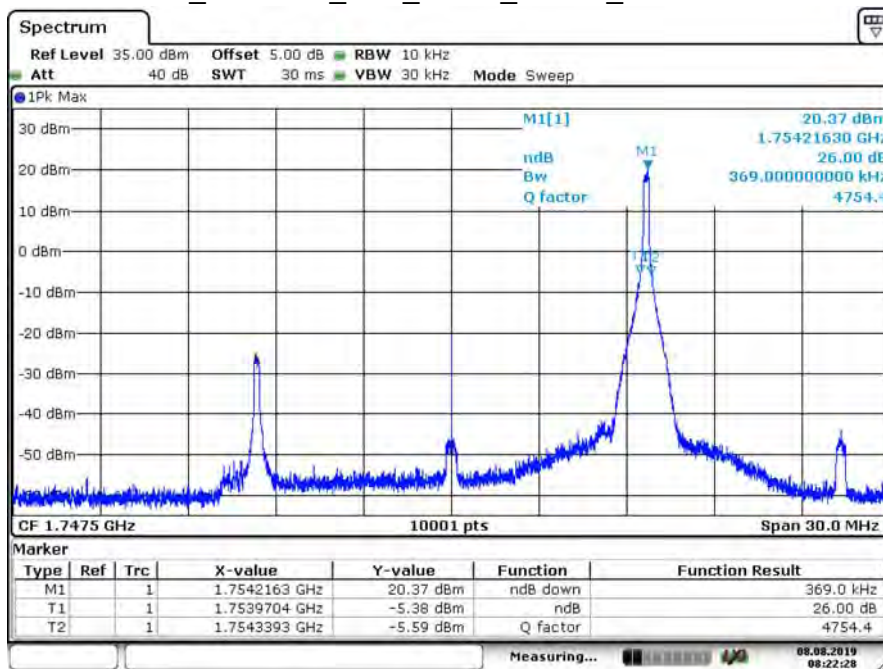
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Date: 8.AUG 2019 08:12:22

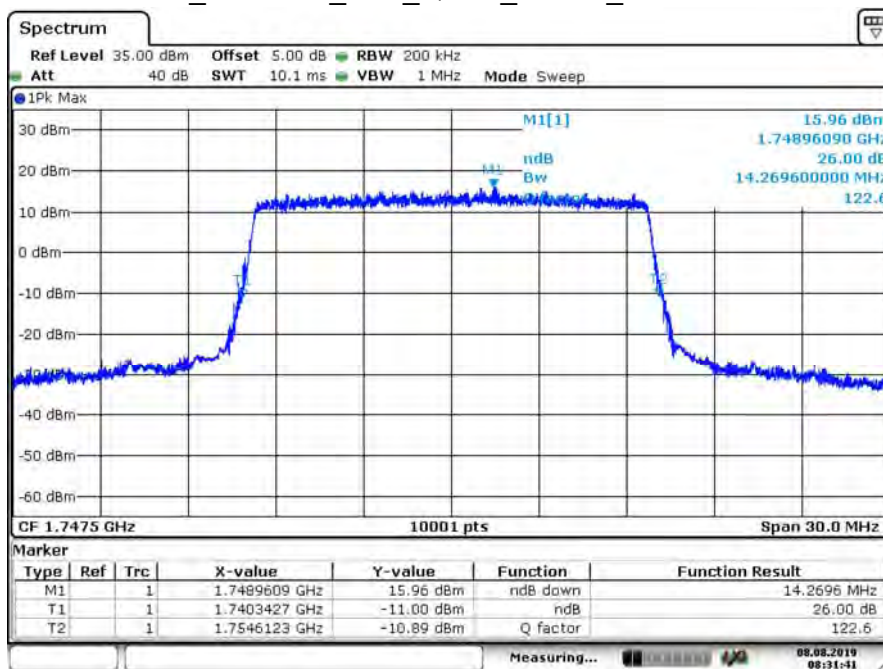


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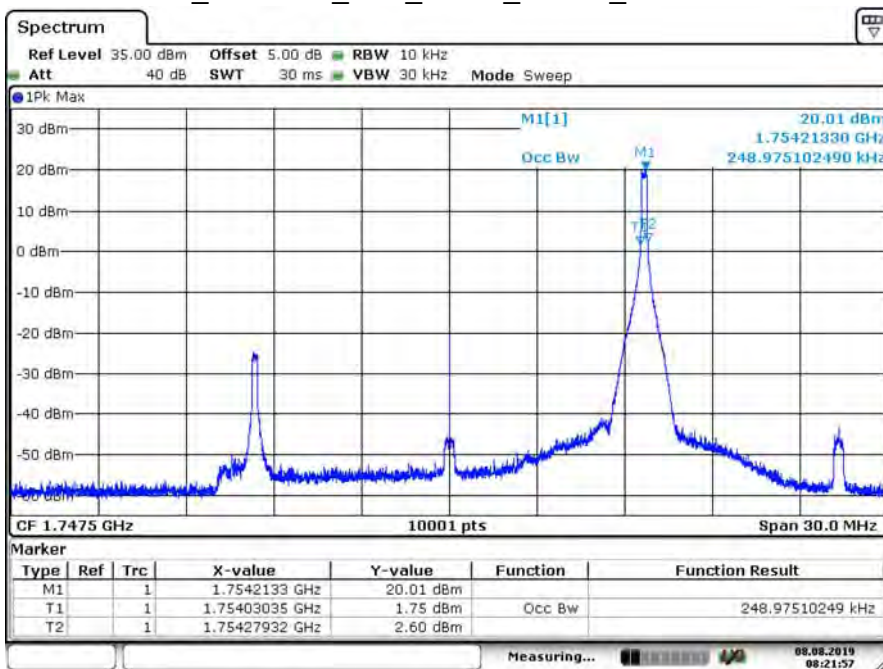
Date: 8.AUG 2019 08:22:28

B4\_CH20325\_15M\_QPSK\_75RB0\_26dB BW



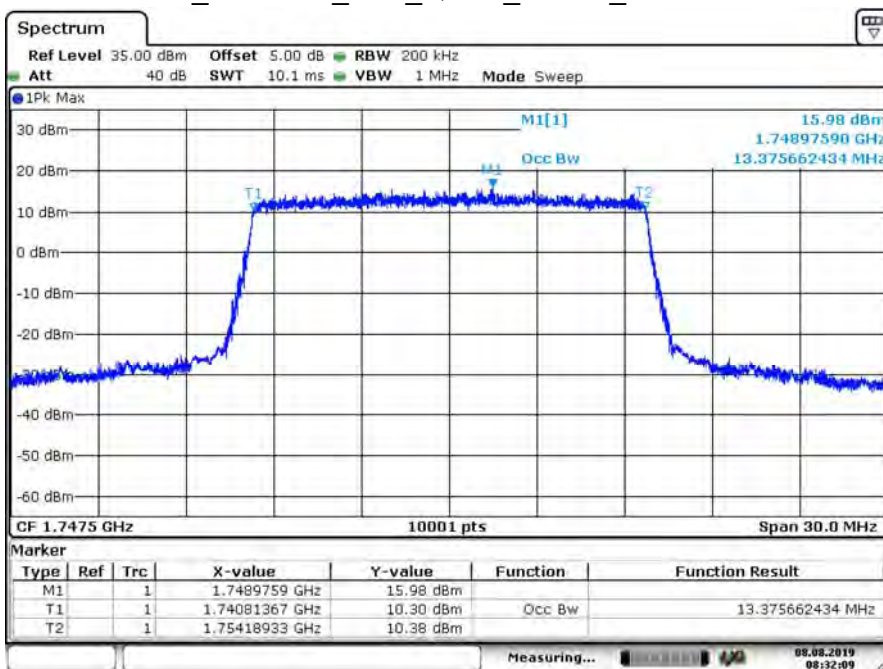
Date: 8.AUG 2019 08:31:40

B4\_CH20325\_15M\_QPSK\_1RB74\_99% BW



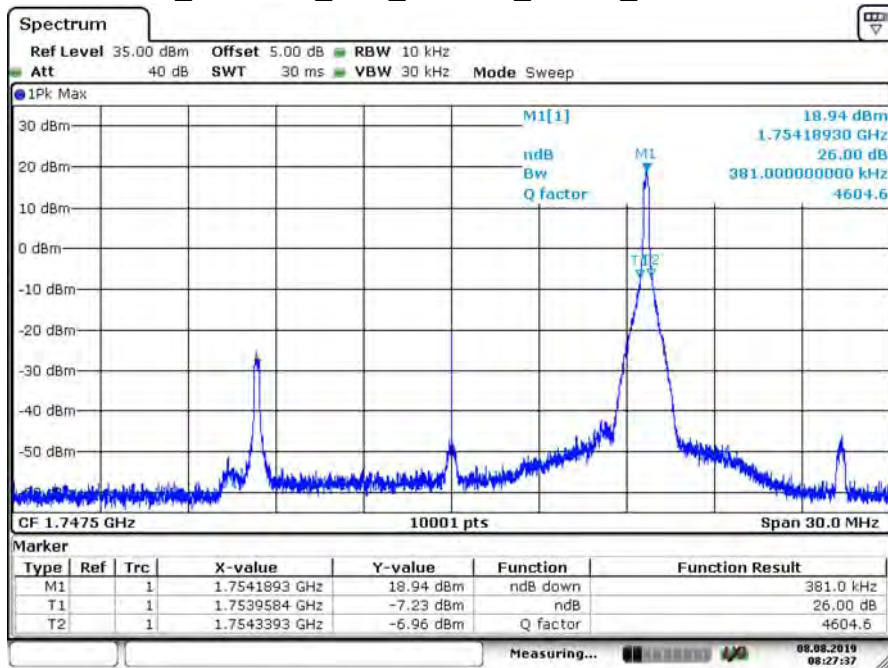
Date: 8.AUG 2019 08:21:58

B4\_CH20325\_15M\_QPSK\_75RB0\_99% BW



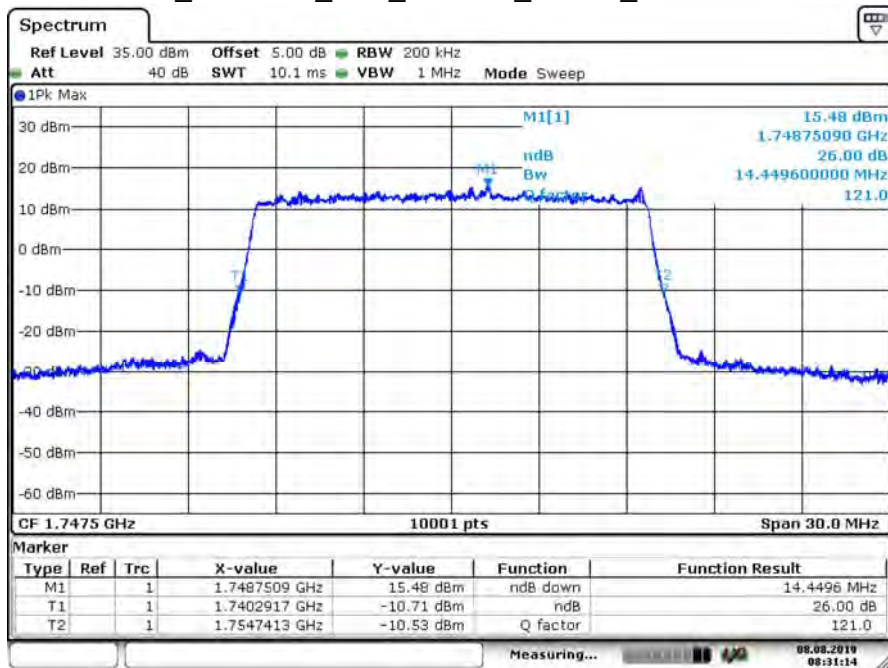
Date: 8.AUG 2019 08:32:09

B4\_CH20325\_15M\_16-QAM\_1RB74\_26dB BW



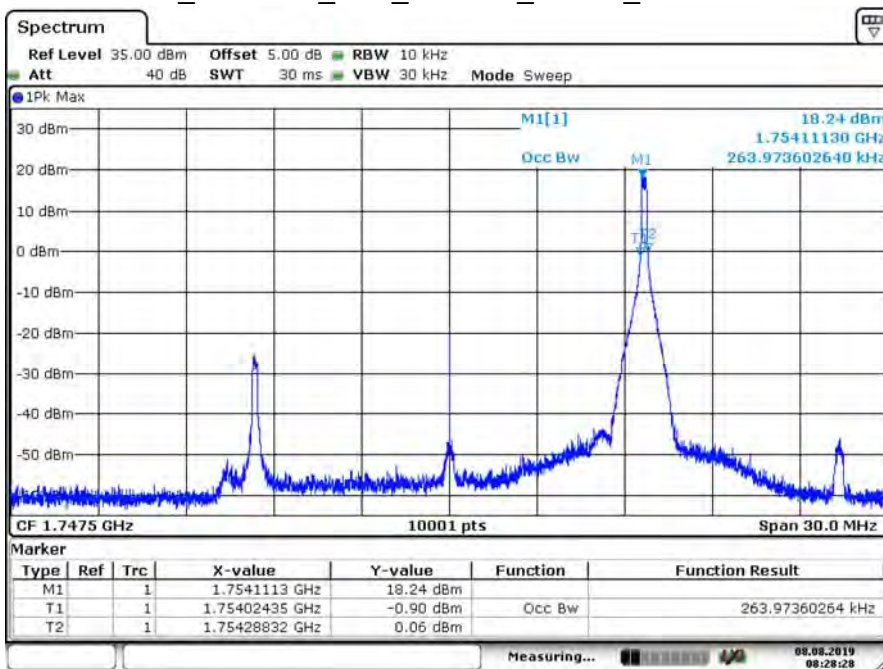
Date: 8.AUG 2019 08:27:37

B4\_CH20325\_15M\_16-QAM\_75RB0\_26dB BW



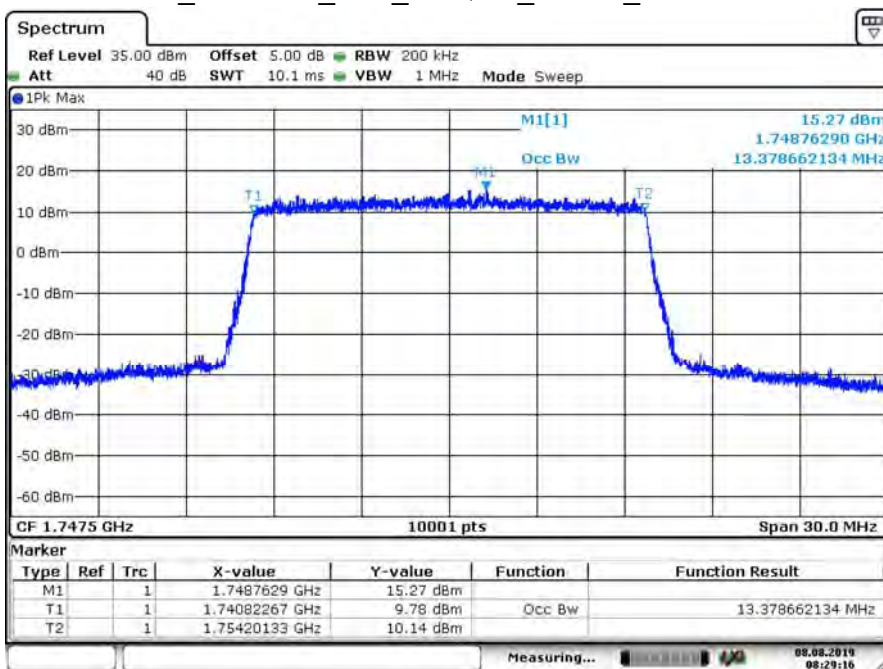
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B4\_CH20325\_15M\_16-QAM\_1RB74\_99% BW



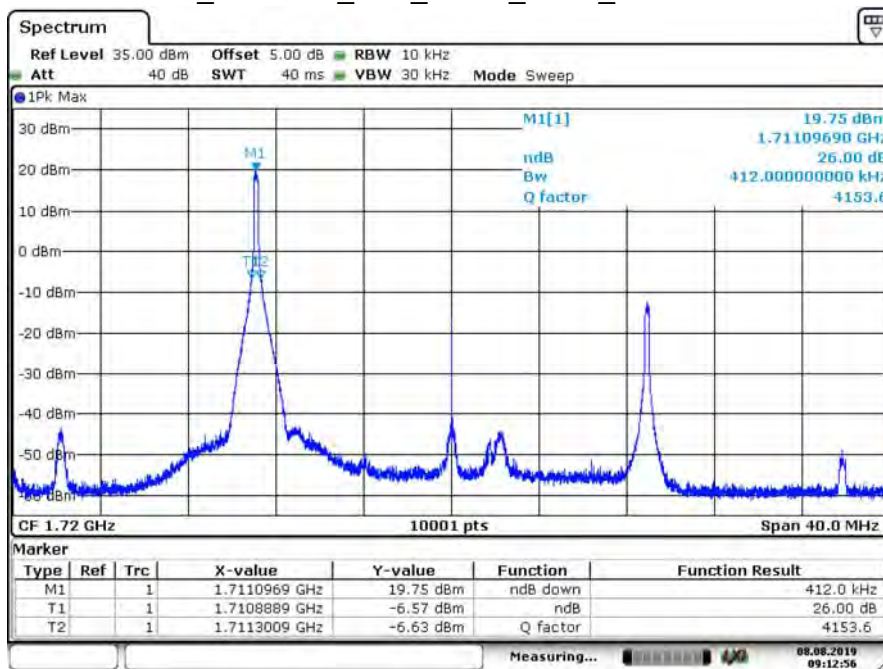
Date: 8.AUG 2019 08:28:28

B4\_CH20325\_15M\_16-QAM\_75RB0\_99% BW



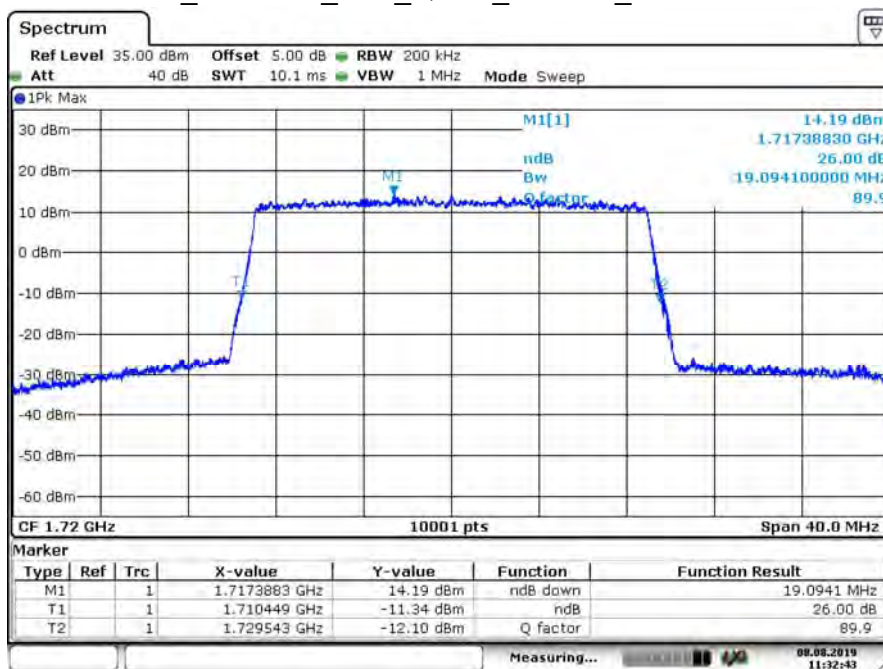
Date: 8.AUG 2019 08:29:16

B4\_CH20050\_20M\_QPSK\_1RB0\_26dB BW



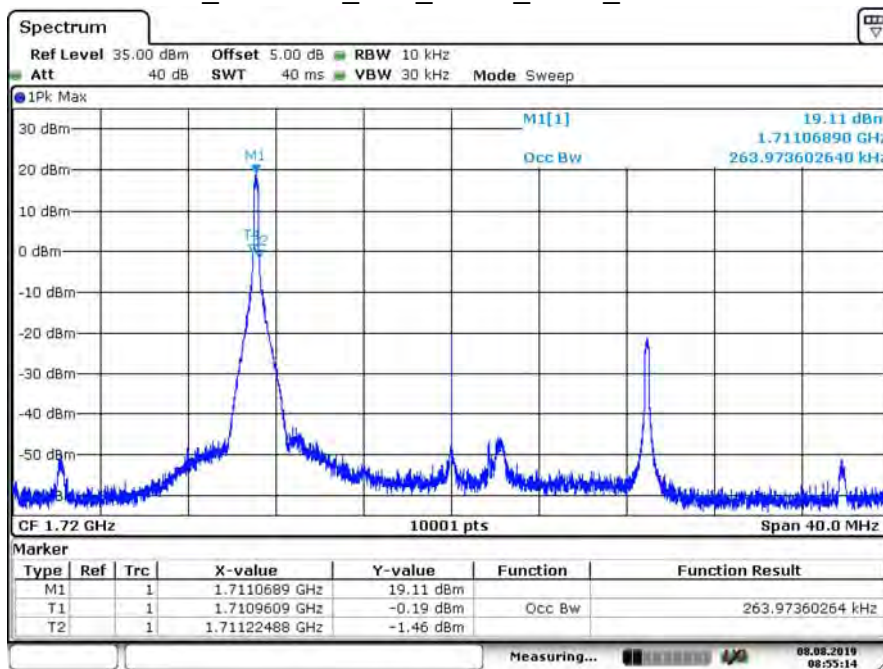
Date: 8.AUG 2019 09:12:56

B4\_CH20050\_20M\_QPSK\_100RB0\_26dB BW



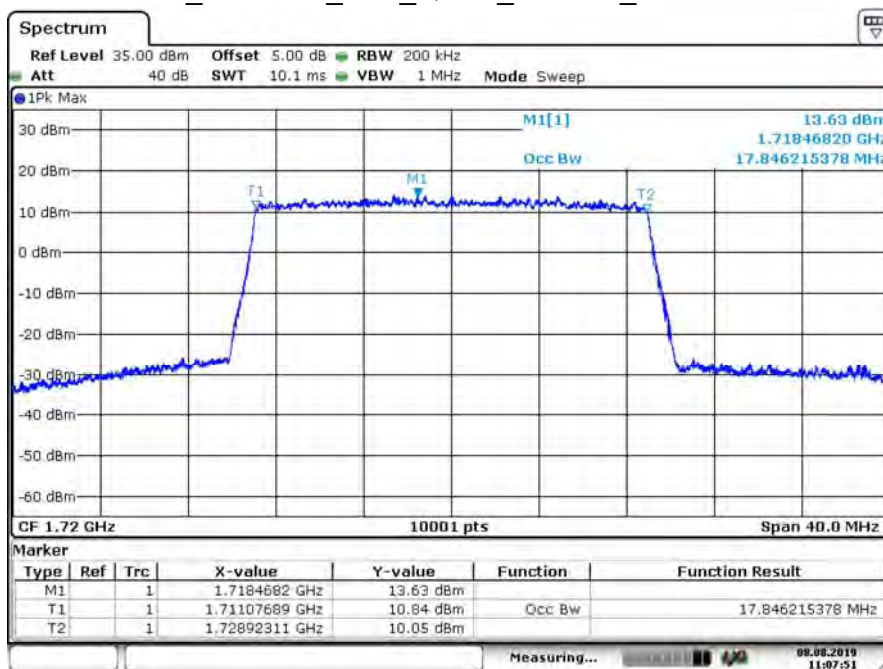
Date: 8.AUG 2019 11:32:42

B4\_CH20050\_20M\_QPSK\_1RB0\_99% BW



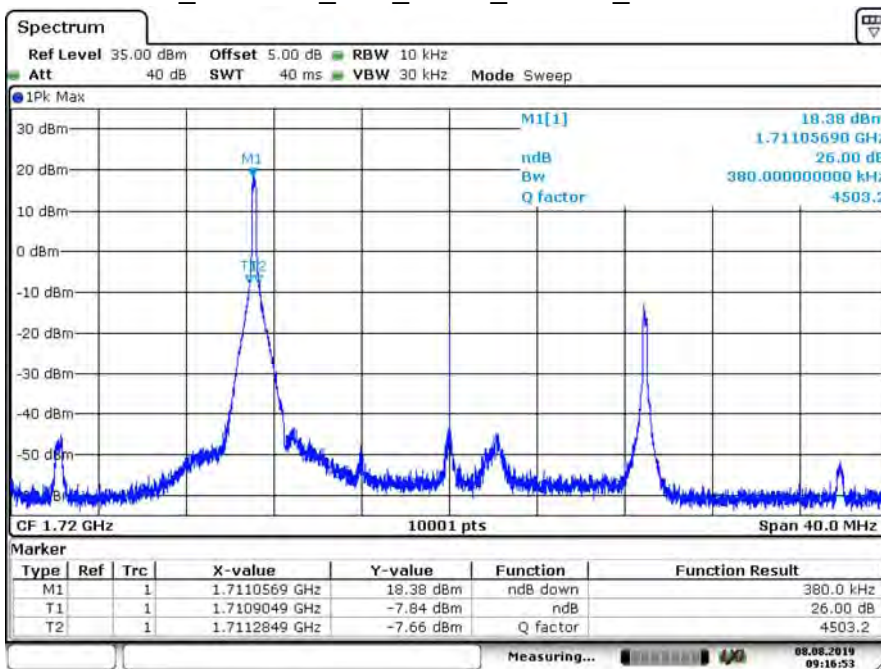
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B4\_CH20050\_20M\_QPSK\_100RB0\_99% BW



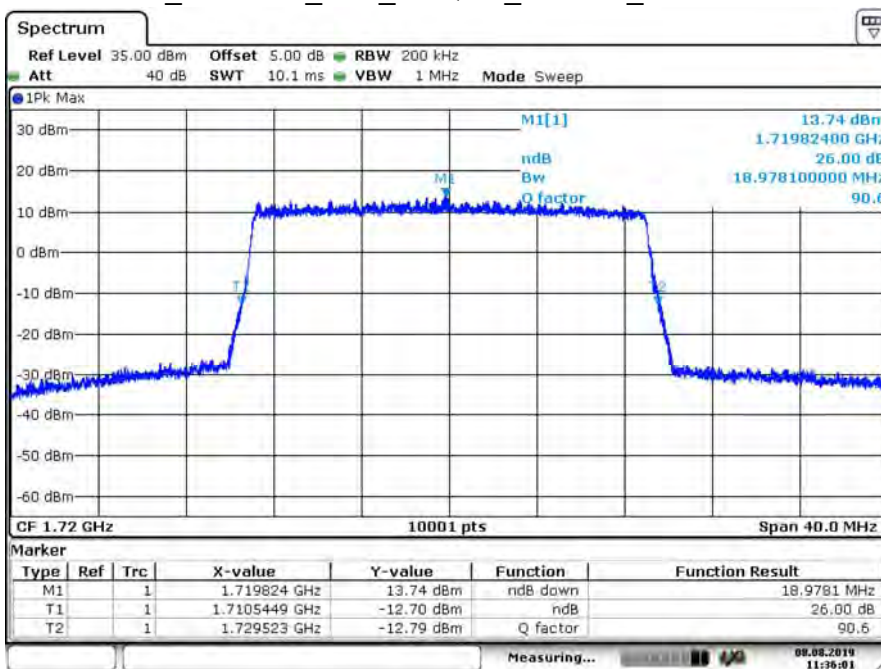
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B4\_CH20050\_20M\_QPSK\_100RB0\_26dB BW



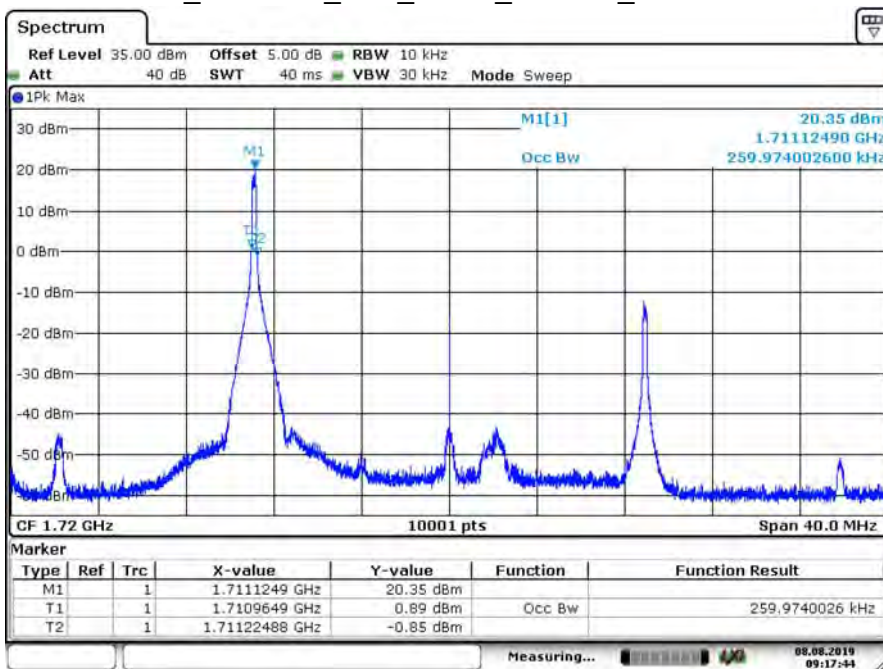
Date: 8.AUG 2019 09:16:54

B4\_CH20050\_20M\_16-QAM\_100RB0\_26dB BW



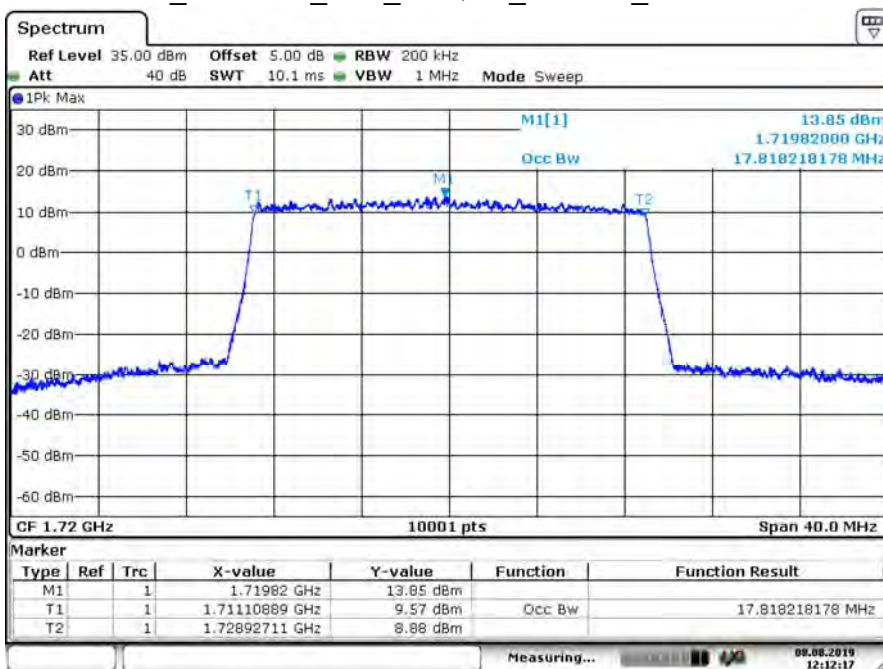
Date: 8.AUG 2019 11:36:02

B4\_CH20050\_20M\_QPSK\_100RB0\_99% BW



Date: 8.AUG 2019 09:17:44

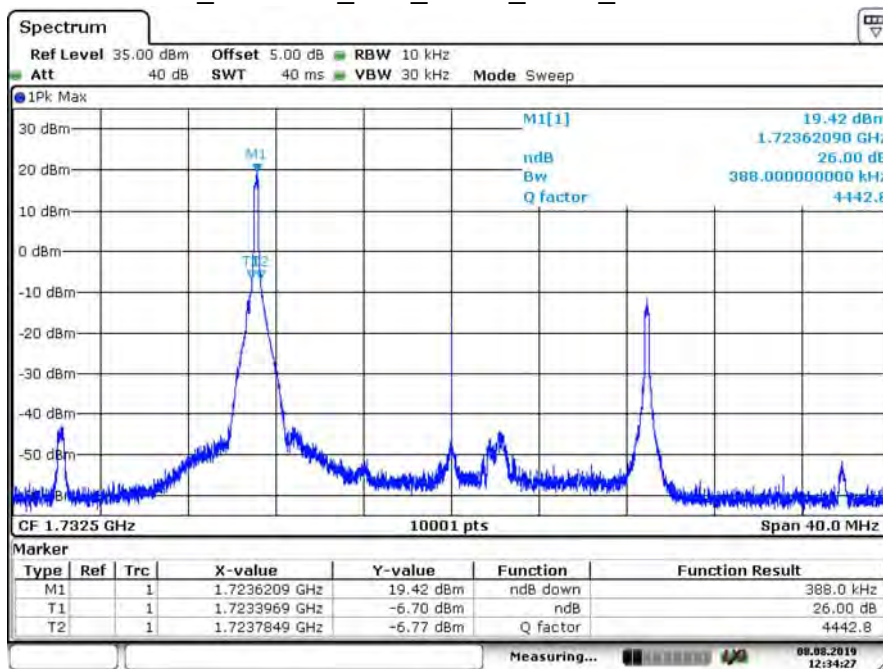
B4\_CH20050\_20M\_16-QAM\_100RB0\_99% BW



Date: 8.AUG 2019 12:12:17

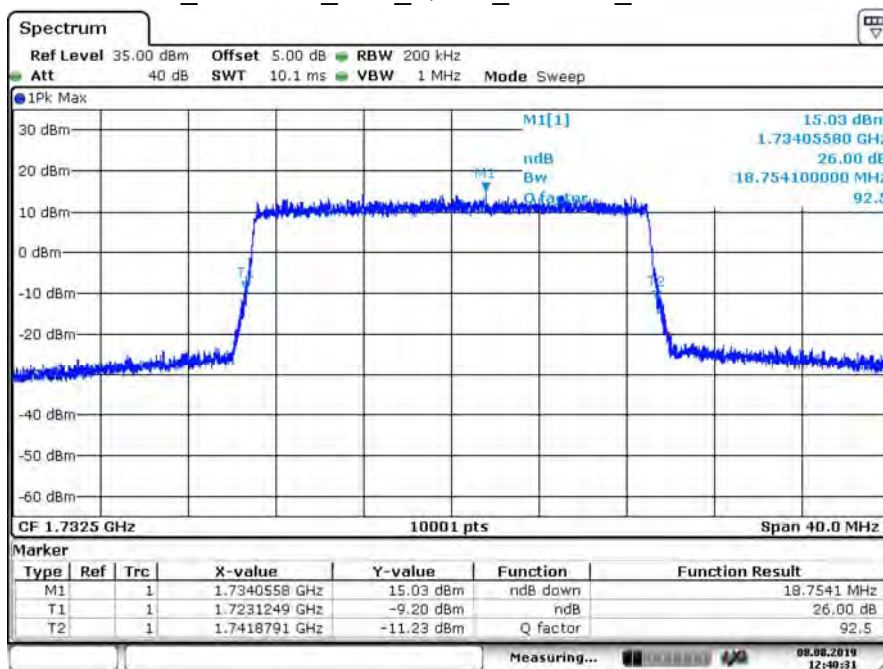


B4\_CH20175\_20M\_QPSK\_1RB0\_26dB BW



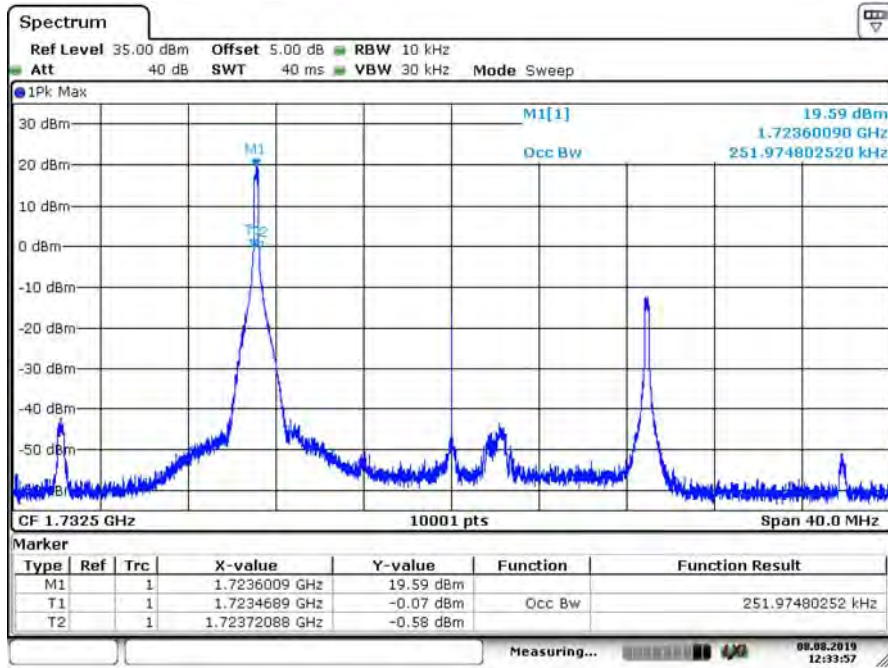
Date: 8.AUG 2019 12:34:26

B4\_CH20175\_20M\_QPSK\_100RB0\_26dB BW



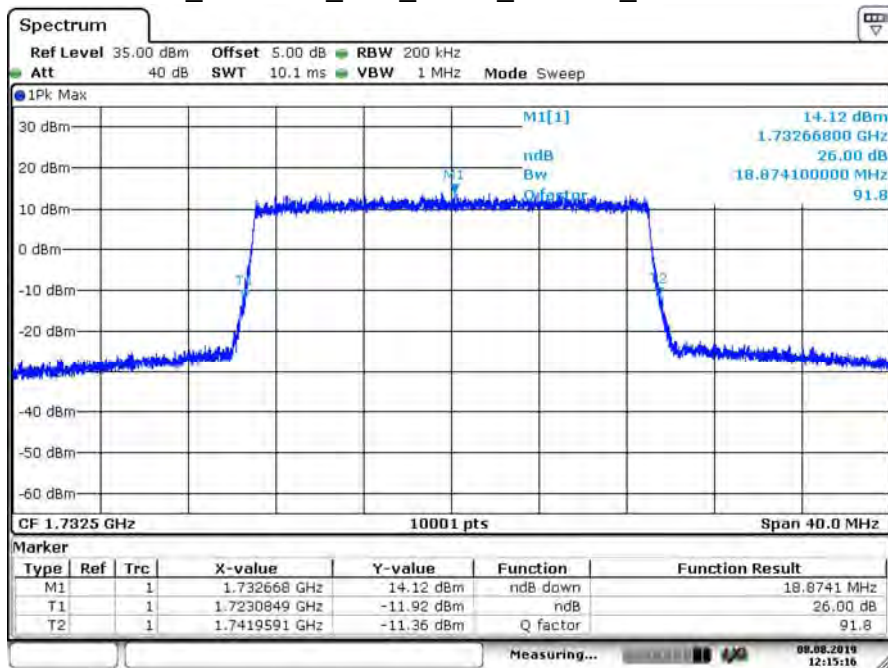
Date: 8.AUG 2019 12:40:31

B4\_CH20175\_20M\_QPSK\_1RB0\_99% BW



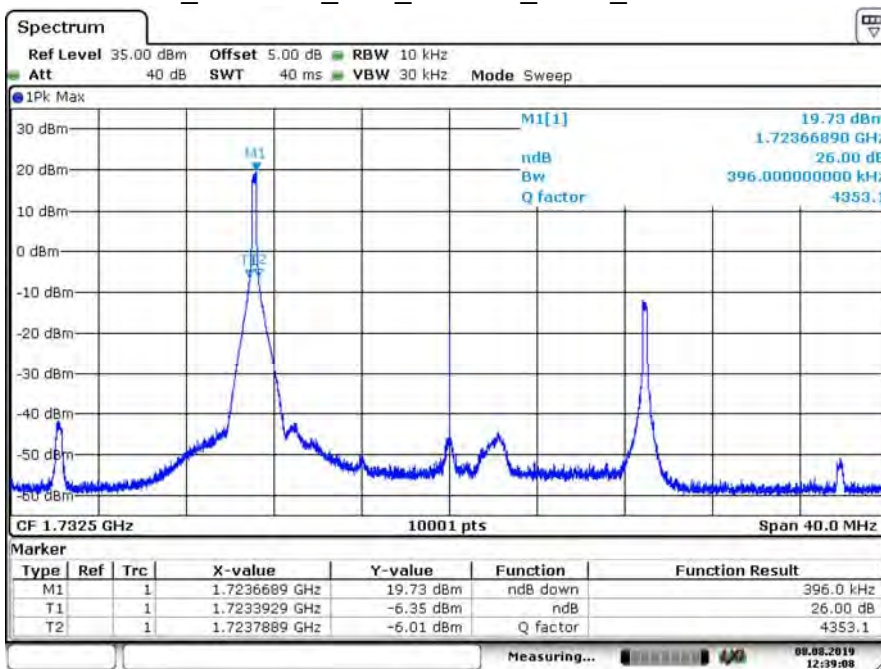
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B4\_CH20175\_20M\_QPSK\_100RB0\_99% BW



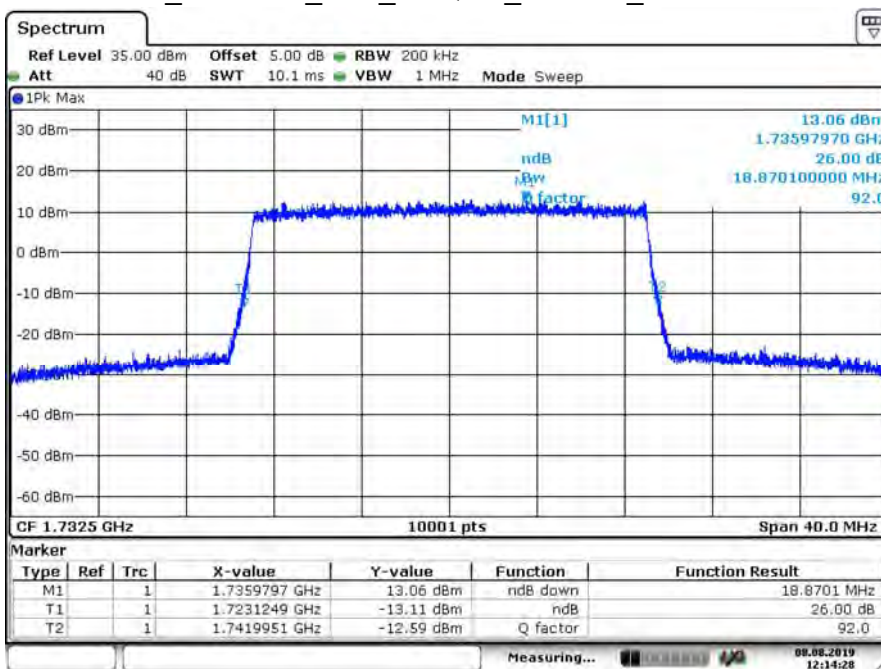
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B4\_CH20175\_20M\_16-QAM\_1RB0\_26dB BW



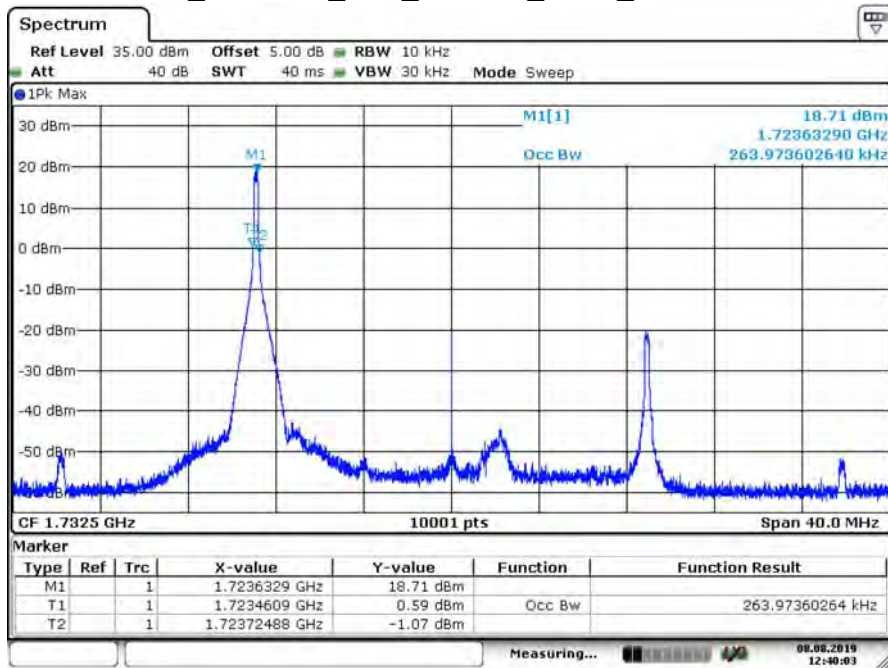
Date: 8.AUG 2019 12:39:08

B4\_CH20175\_20M\_16-QAM\_100RB0\_26dB BW



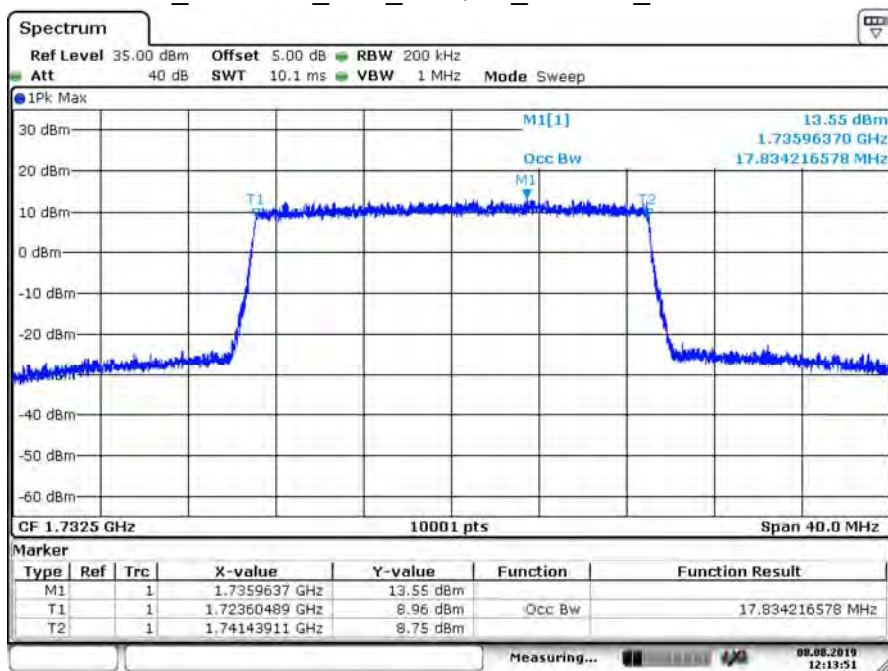
Date: 8.AUG 2019 12:14:28

B4\_CH20175\_20M\_16-QAM\_1RB0\_99% BW



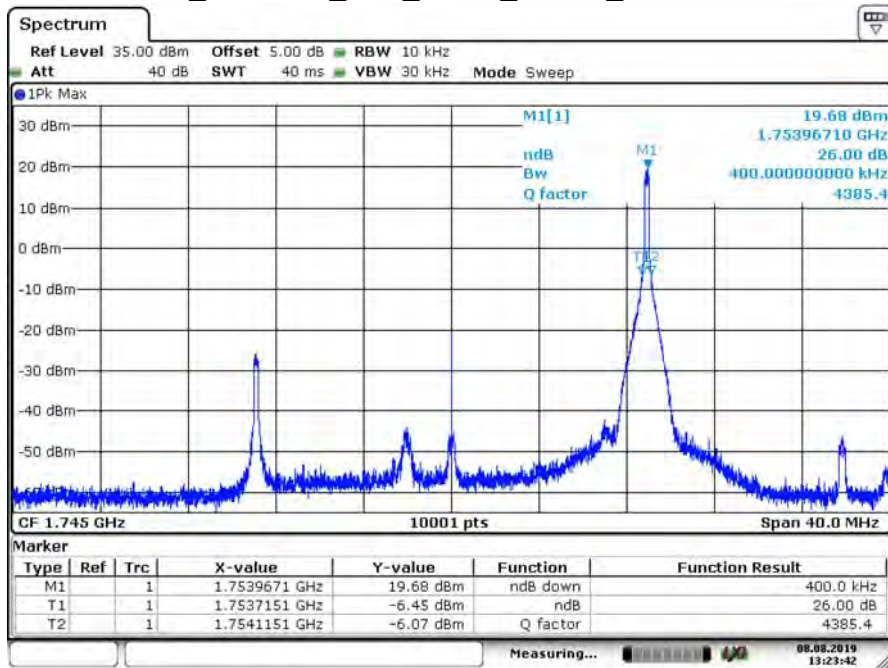
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B4\_CH20175\_20M\_16-QAM\_100RB0\_99% BW



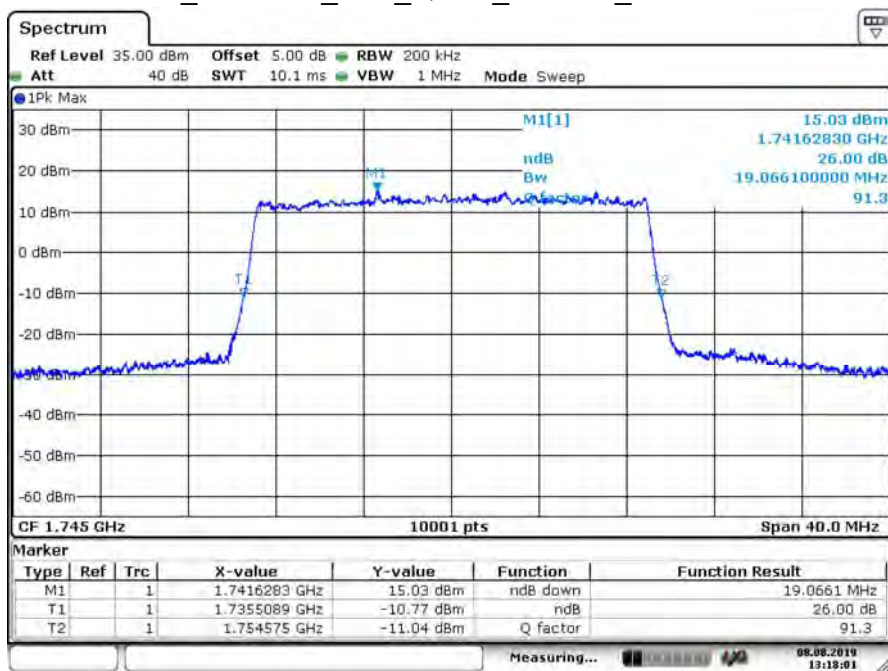
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B4\_CH20300\_20M\_QPSK\_1RB99\_26dB BW



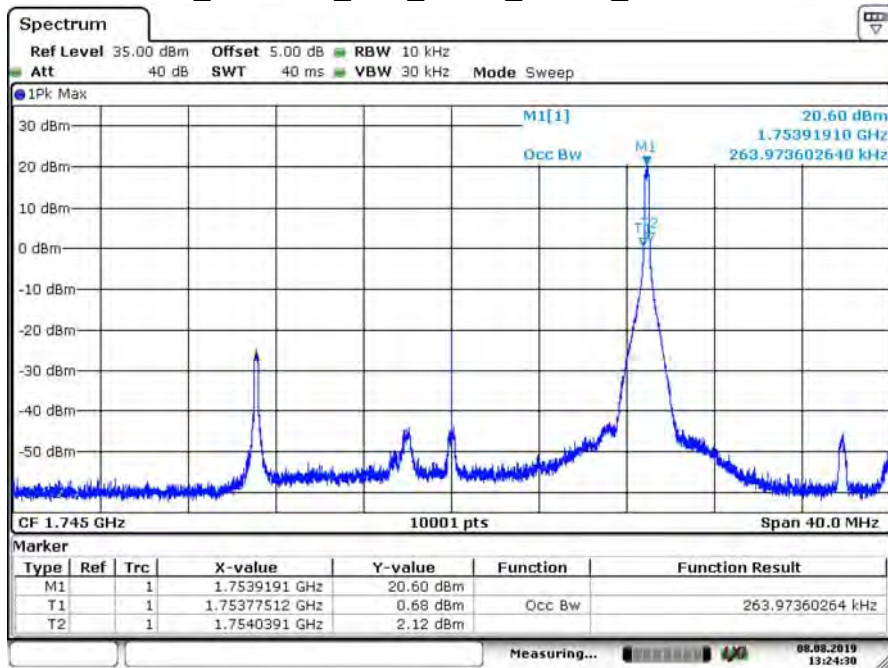
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B4\_CH20300\_20M\_QPSK\_100RB0\_26dB BW



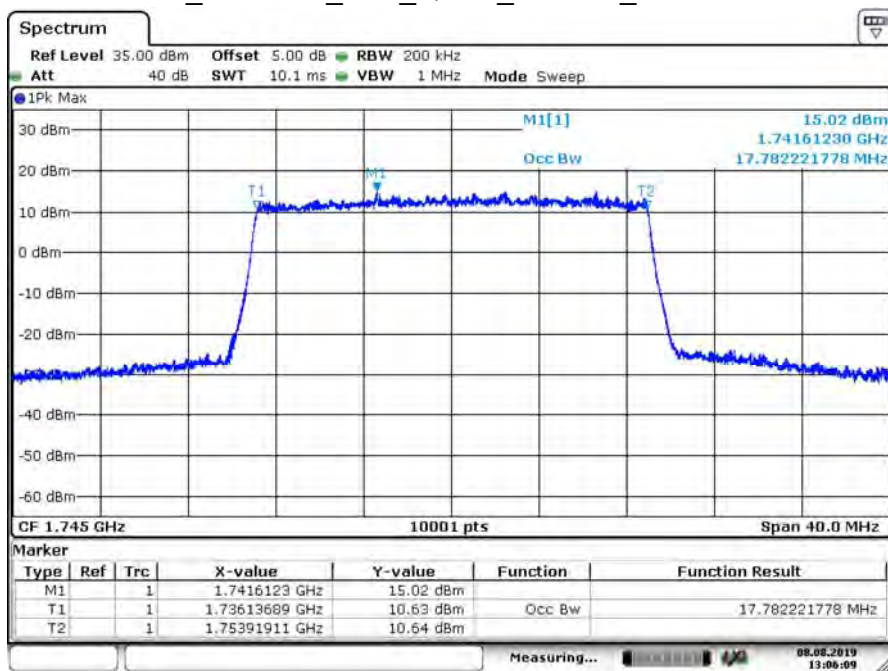
Date: 8.AUG 2019 13:18:01

B4\_CH20300\_20M\_QPSK\_1RB99\_99% BW



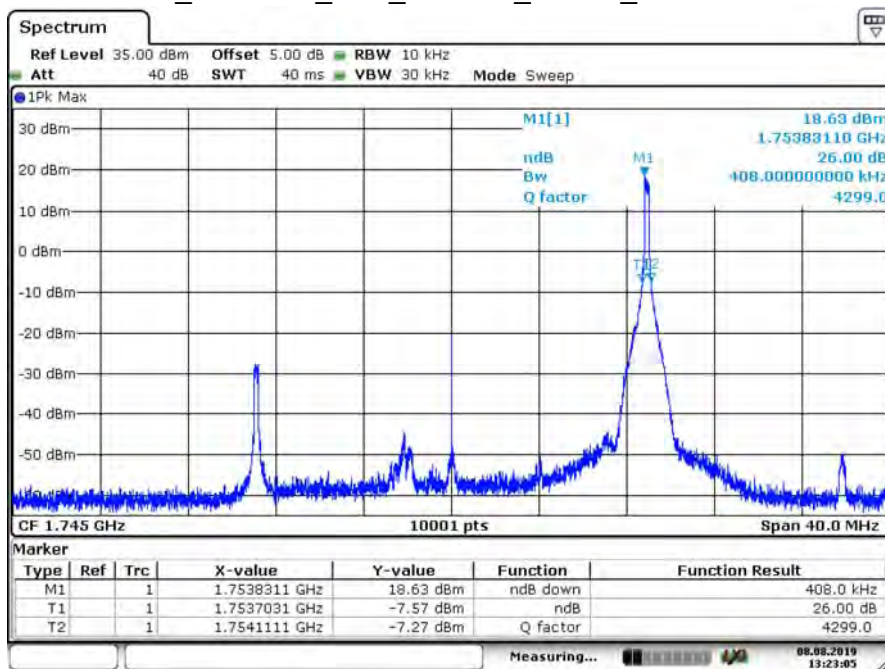
Date: 8.AUG 2019 13:24:30

B4\_CH20300\_20M\_QPSK\_100RB0\_99% BW



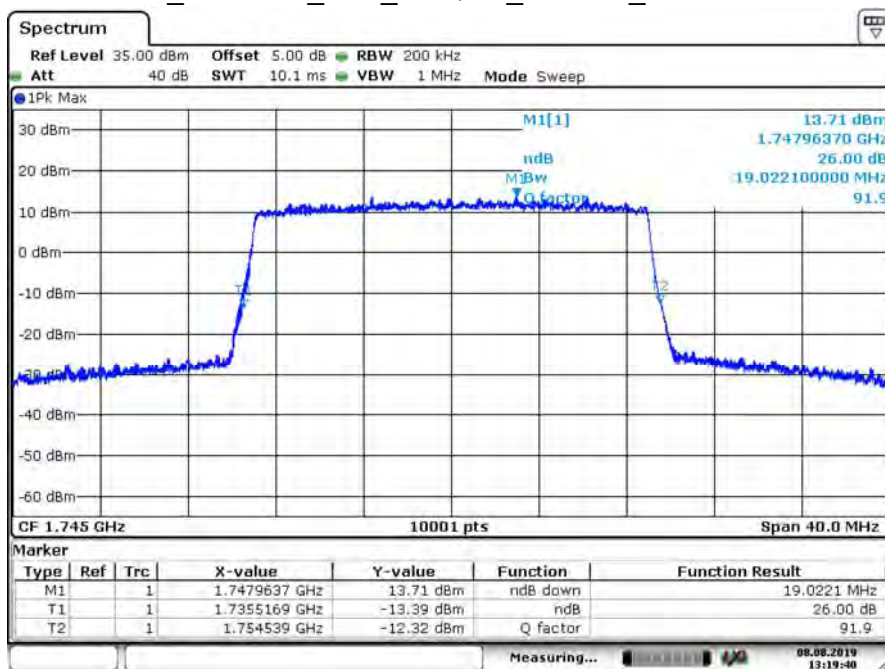
Date: 8.AUG 2019 13:06:10

B4\_CH20300\_20M\_16-QAM\_1RB99\_26dB BW



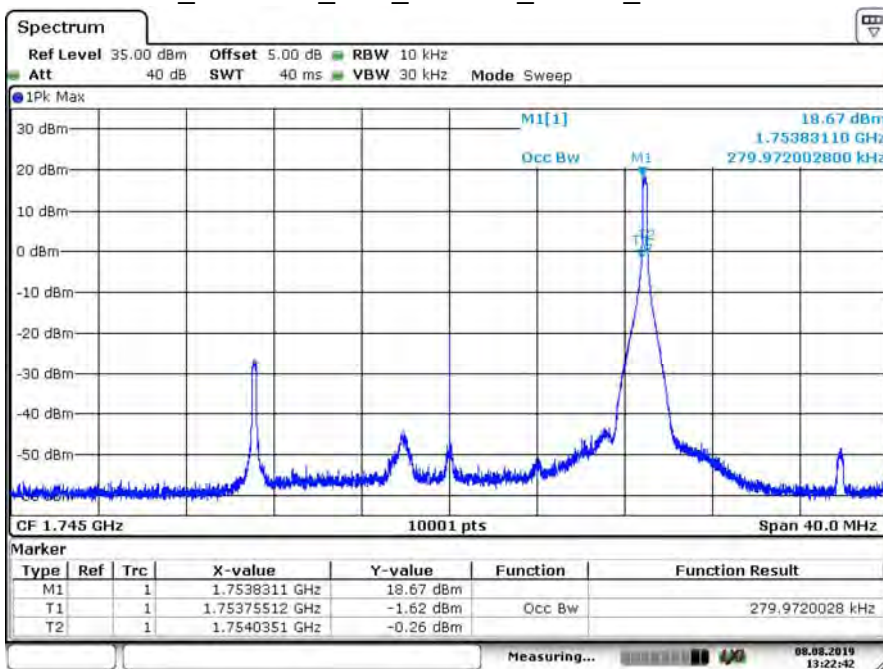
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B4\_CH20300\_20M\_16-QAM\_100RB0\_26dB BW



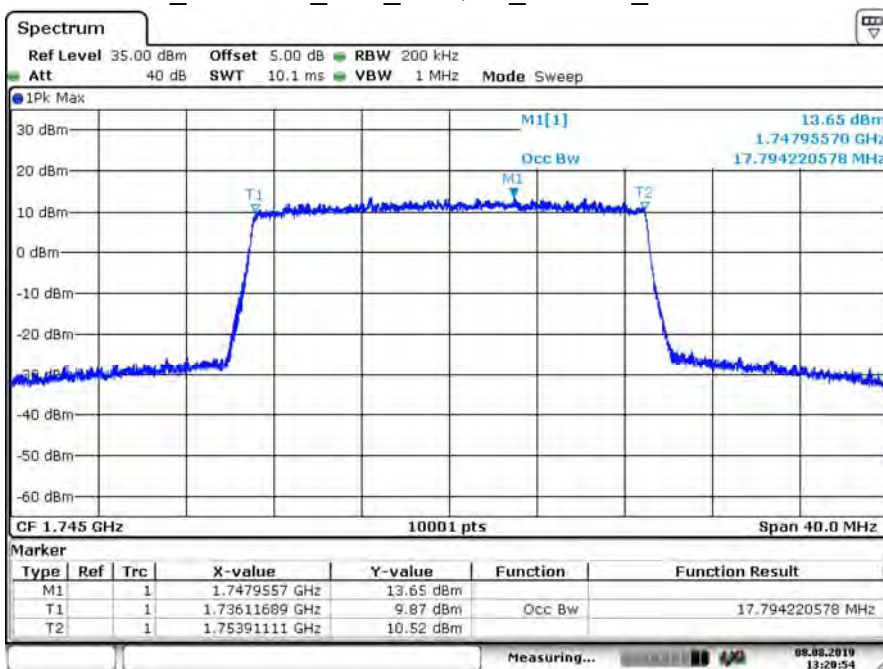
Date: 8.AUG 2019 13:19:40

B4\_CH20300\_20M\_16-QAM\_1RB99\_99% BW



Date: 8.AUG 2019 13:22:42

B4\_CH20300\_20M\_16-QAM\_100RB0\_99% BW



Date: 8.AUG 2019 13:20:54

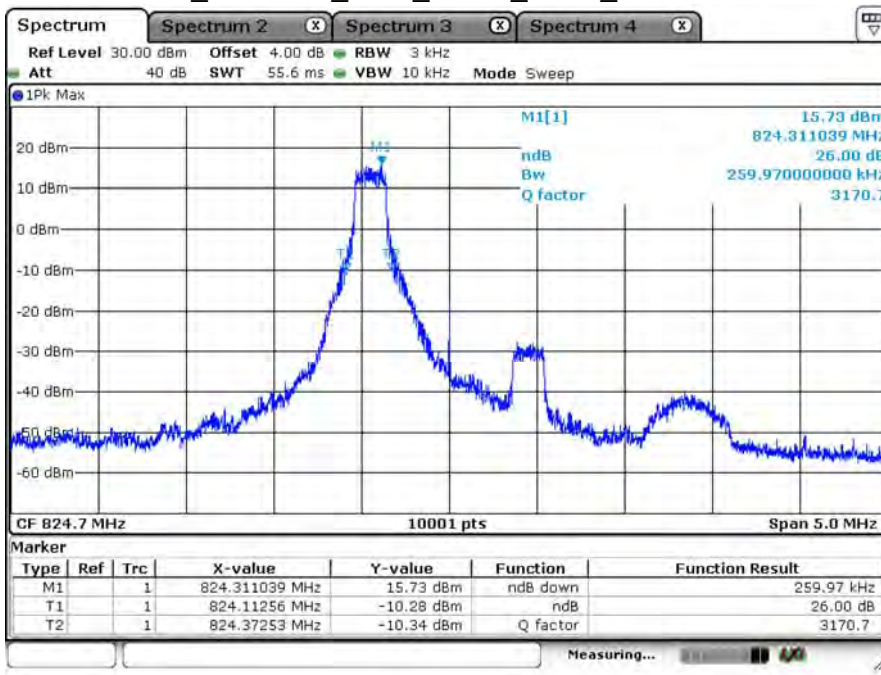


|              |                    |           |        |
|--------------|--------------------|-----------|--------|
| Product      | Module             |           |        |
| Test Item    | Occupied Bandwidth |           |        |
| Test Mode    | Mode 3: LTE Band 5 |           |        |
| Date of Test | 2019/08/05         | Test Site | SR10-H |

| LTE Band 5_1RB Low/high |            |                 |                     |        |             |
|-------------------------|------------|-----------------|---------------------|--------|-------------|
| Band width (MHz)        | Modulation | Frequency (MHz) | Measure Level (MHz) |        | Limit (MHz) |
|                         |            |                 | 26dB BW             | 99% BW |             |
| 1.4M                    | QPSK       | 824.7           | 0.259               | 0.207  | N/A         |
|                         |            | 836.5           | 0.271               | 0.207  | N/A         |
|                         |            | 848.3           | 0.273               | 0.204  | N/A         |
|                         | 16-QAM     | 824.7           | 0.284               | 0.206  | N/A         |
|                         |            | 836.5           | 0.286               | 0.215  | N/A         |
|                         |            | 848.3           | 0.257               | 0.205  | N/A         |
| 3M                      | QPSK       | 825.5           | 0.284               | 0.204  | N/A         |
|                         |            | 836.5           | 0.276               | 0.208  | N/A         |
|                         |            | 847.5           | 0.274               | 0.205  | N/A         |
|                         | 16-QAM     | 825.5           | 0.261               | 0.204  | N/A         |
|                         |            | 836.5           | 0.275               | 0.215  | N/A         |
|                         |            | 847.5           | 0.272               | 0.209  | N/A         |
| 5M                      | QPSK       | 826.5           | 0.274               | 0.221  | N/A         |
|                         |            | 836.5           | 0.303               | 0.224  | N/A         |
|                         |            | 846.5           | 0.313               | 0.223  | N/A         |
|                         | 16-QAM     | 826.5           | 0.303               | 0.228  | N/A         |
|                         |            | 836.5           | 0.314               | 0.229  | N/A         |
|                         |            | 846.5           | 0.285               | 0.220  | N/A         |
| 10M                     | QPSK       | 829.0           | 0.288               | 0.239  | N/A         |
|                         |            | 836.5           | 0.300               | 0.233  | N/A         |
|                         |            | 844.0           | 0.298               | 0.229  | N/A         |
|                         | 16-QAM     | 829.0           | 0.300               | 0.245  | N/A         |
|                         |            | 836.5           | 0.298               | 0.239  | N/A         |
|                         |            | 844.0           | 0.298               | 0.241  | N/A         |

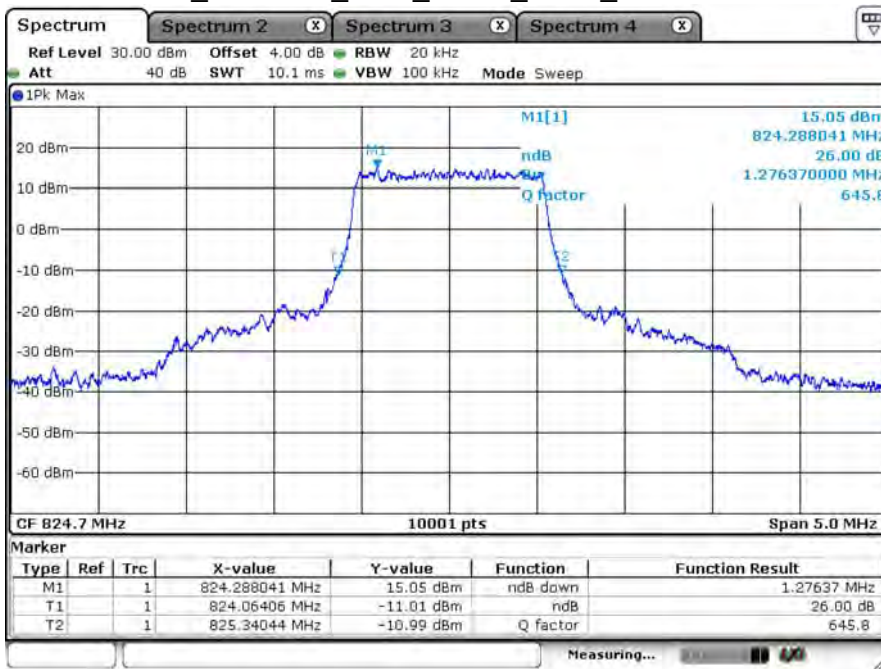
| LTE Band 5_Full RB |            |                 |                     |        |             |
|--------------------|------------|-----------------|---------------------|--------|-------------|
| Band width (MHz)   | Modulation | Frequency (MHz) | Measure Level (MHz) |        | Limit (MHz) |
|                    |            |                 | 26dB BW             | 99% BW |             |
| 1.4M               | QPSK       | 824.7           | 1.276               | 1.087  | N/A         |
|                    |            | 836.5           | 1.272               | 1.085  | N/A         |
|                    |            | 848.3           | 1.275               | 1.092  | N/A         |
|                    | 16-QAM     | 824.7           | 1.266               | 1.084  | N/A         |
|                    |            | 836.5           | 1.293               | 1.090  | N/A         |
|                    |            | 848.3           | 1.278               | 1.086  | N/A         |
| 3M                 | QPSK       | 825.5           | 2.928               | 2.685  | N/A         |
|                    |            | 836.5           | 2.961               | 2.683  | N/A         |
|                    |            | 847.5           | 2.937               | 2.688  | N/A         |
|                    | 16-QAM     | 825.5           | 2.953               | 2.683  | N/A         |
|                    |            | 836.5           | 2.955               | 2.680  | N/A         |
|                    |            | 847.5           | 2.916               | 2.679  | N/A         |
| 5M                 | QPSK       | 826.5           | 4.868               | 4.466  | N/A         |
|                    |            | 836.5           | 4.891               | 4.479  | N/A         |
|                    |            | 846.5           | 4.843               | 4.457  | N/A         |
|                    | 16-QAM     | 826.5           | 4.928               | 4.475  | N/A         |
|                    |            | 836.5           | 4.919               | 4.481  | N/A         |
|                    |            | 846.5           | 4.797               | 4.457  | N/A         |
| 10M                | QPSK       | 829.0           | 9.529               | 8.909  | N/A         |
|                    |            | 836.5           | 9.715               | 8.935  | N/A         |
|                    |            | 844.0           | 9.525               | 8.905  | N/A         |
|                    | 16-QAM     | 829.0           | 9.591               | 8.921  | N/A         |
|                    |            | 836.5           | 9.569               | 8.921  | N/A         |
|                    |            | 844.0           | 9.617               | 8.903  | N/A         |

B5\_CH20407\_1.4M\_QPSK\_1RB0\_26dB BW



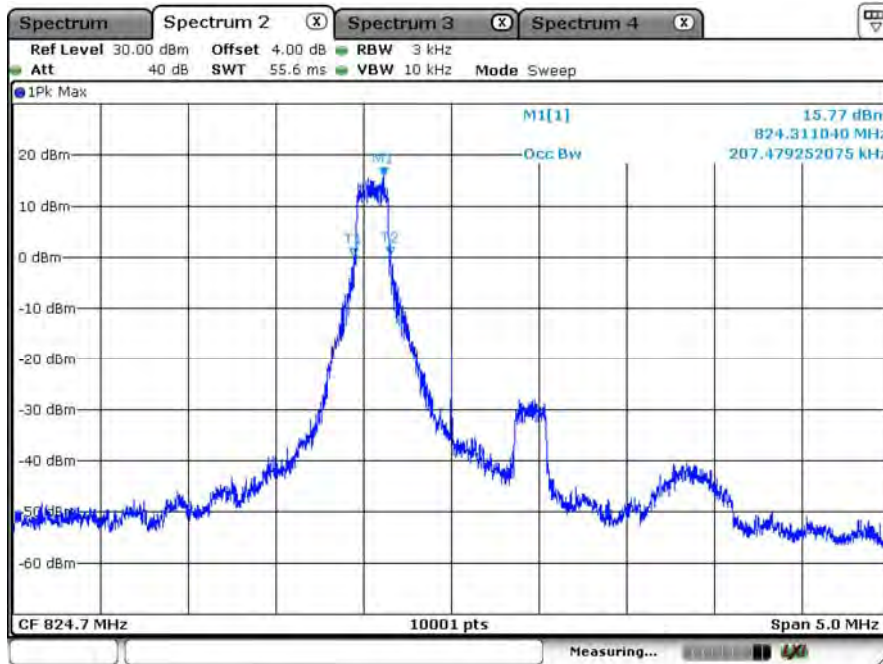
Date: 5.AUG.2019 13:23:08

B5\_CH20407\_1.4M\_QPSK\_6RB0\_26dB BW



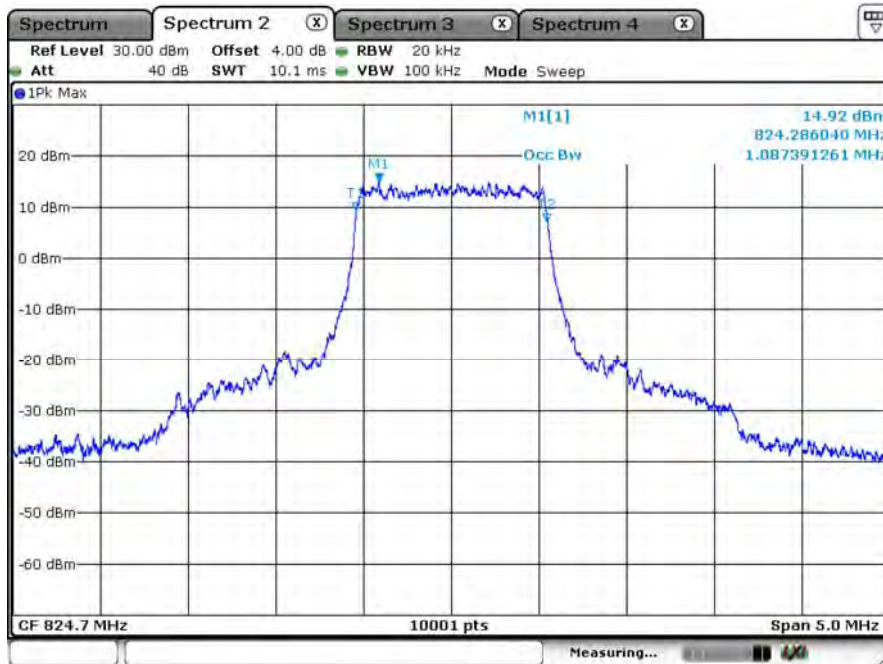
Date: 5.AUG.2019 14:17:49

### B5\_CH20407\_1.4M\_QPSK\_1RB0\_99% BW



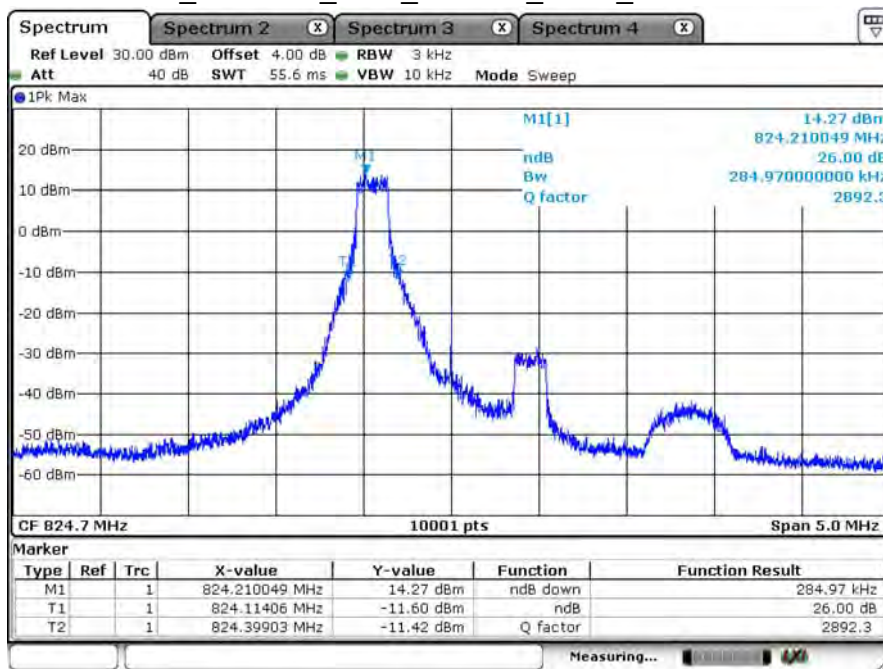
Date: 5.AUG.2019 13:29:25

### B5\_CH20407\_1.4M\_QPSK\_6RB0\_99% BW



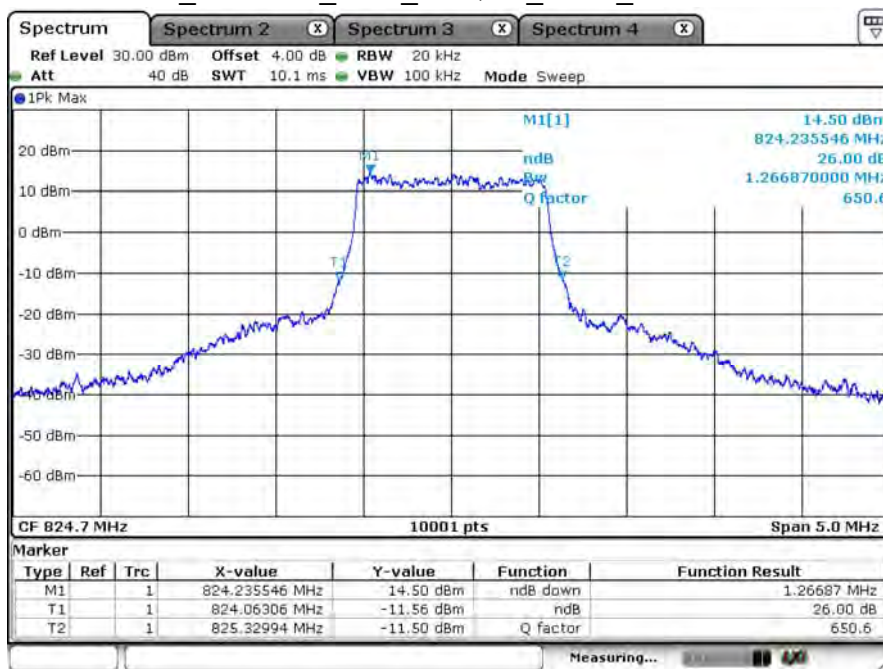
Date: 5.AUG.2019 14:18:30

B5\_CH20407\_1.4M\_16-QAM\_1RB0\_26dB BW



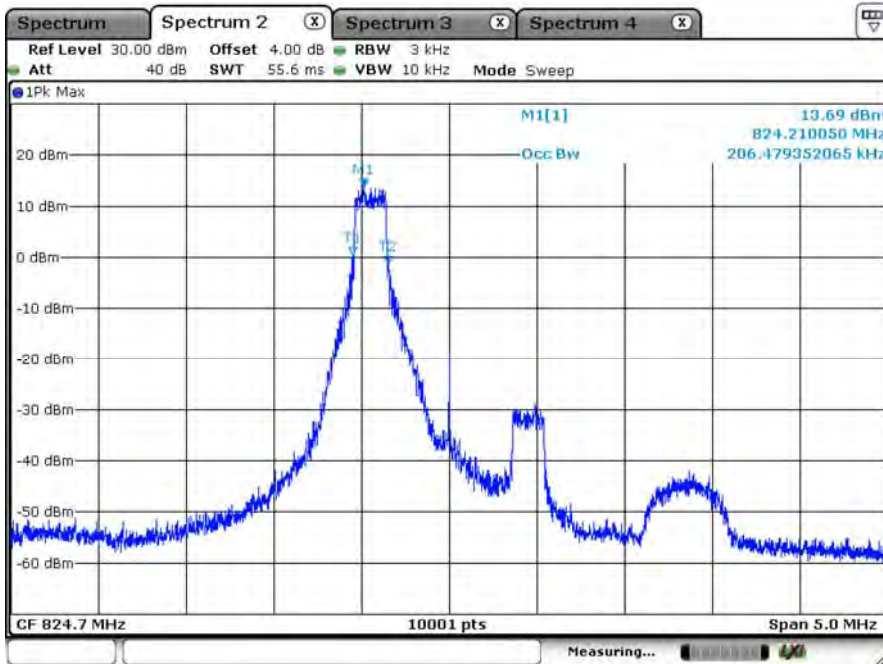
Date: 5.AUG.2019 13:33:46

B5\_CH20407\_1.4M\_16-QAM\_6RB0\_26dB BW



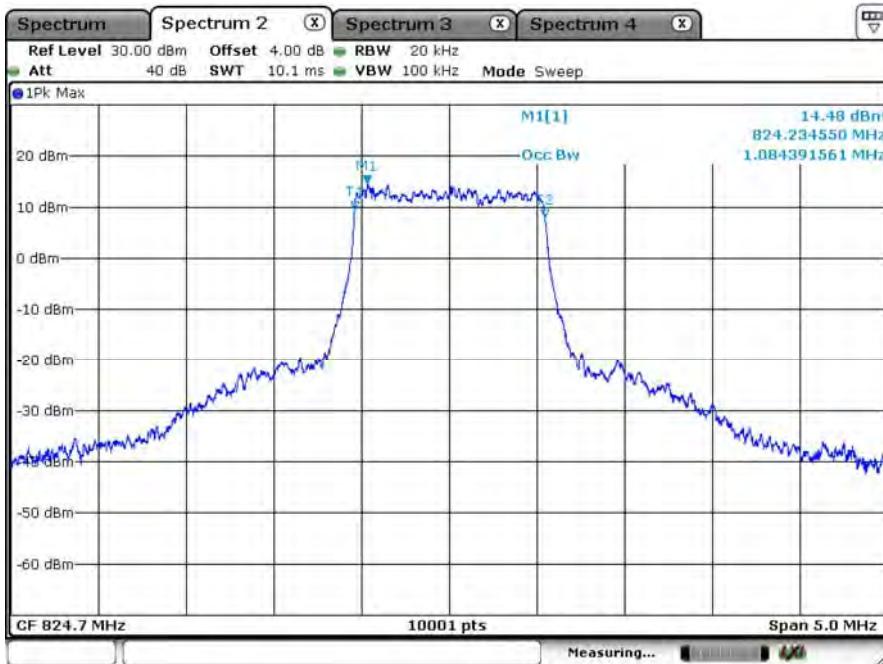
Date: 5.AUG.2019 14:21:02

### B5\_CH20407\_1.4M\_16-QAM\_1RB0\_99% BW



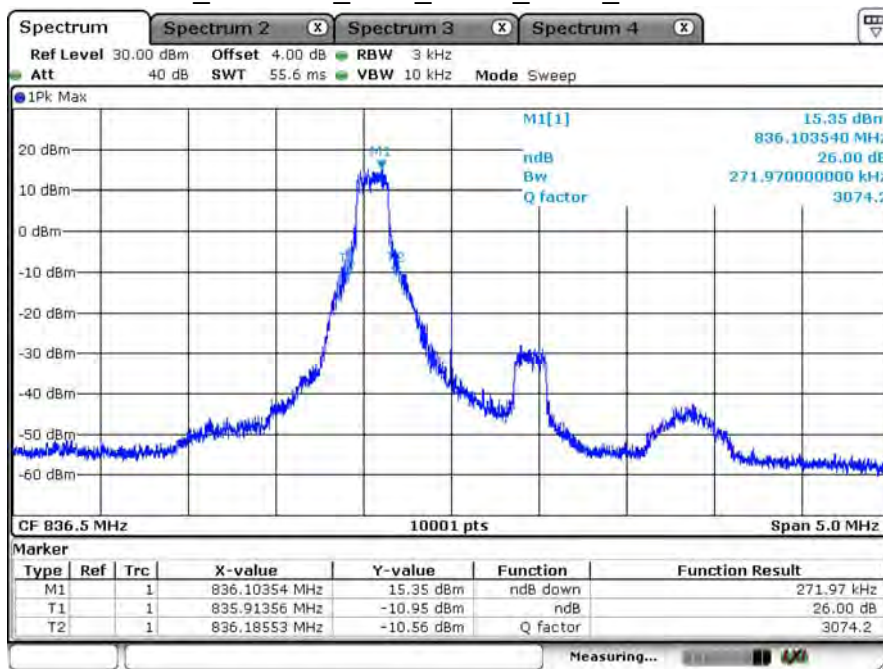
Date: 5.AUG.2019 13:34:36

### B5\_CH20407\_1.4M\_16-QAM\_6RB0\_99% BW



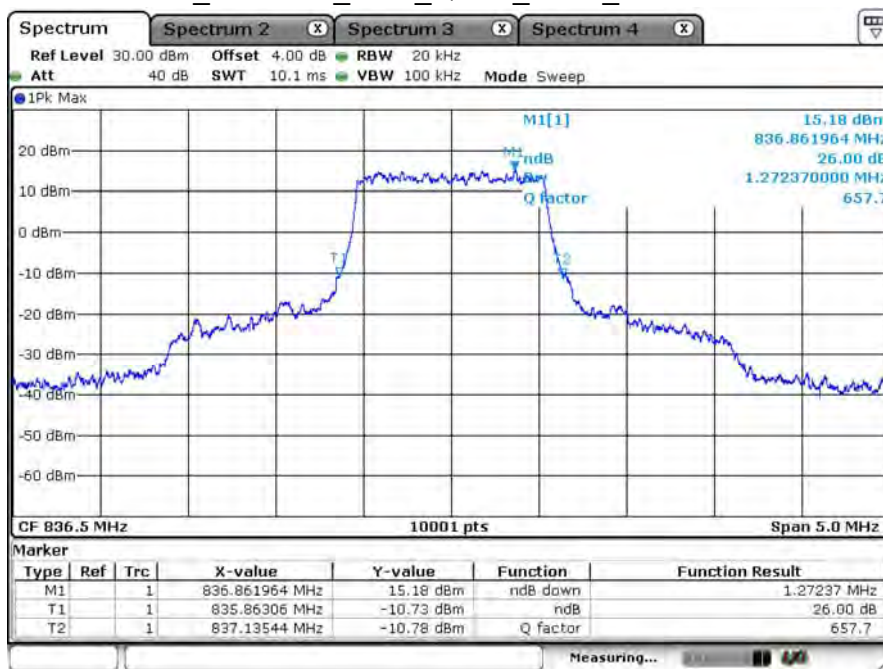
Date: 5.AUG.2019 14:20:02

### B5\_CH20525\_1.4M\_QPSK\_1RB0\_26dB BW



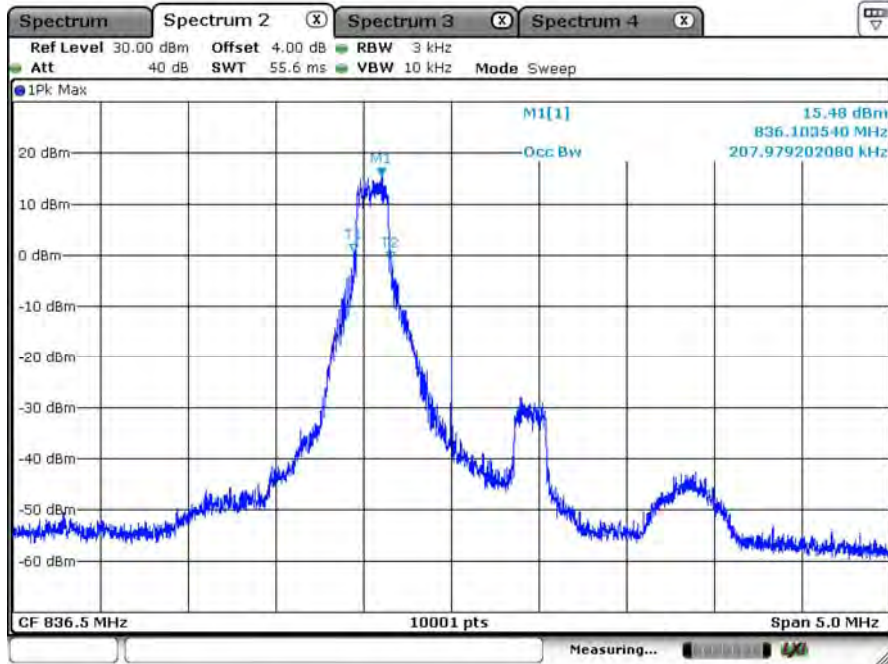
Date: 5.AUG.2019 13:38:34

### B5\_CH20525\_1.4M\_QPSK\_6RB0\_26dB BW



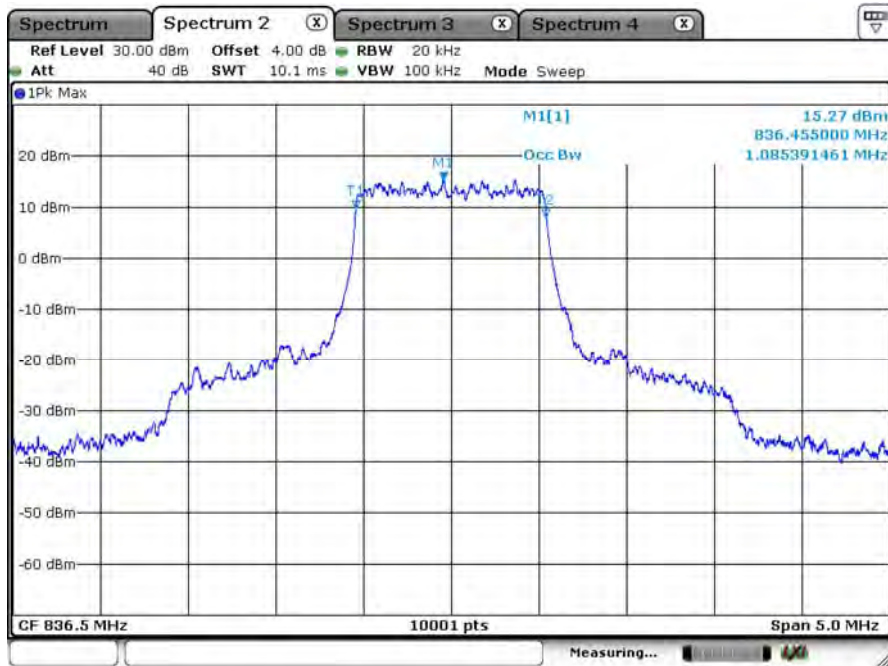
Date: 5.AUG.2019 14:14:10

### B5\_CH20525\_1.4M\_QPSK\_1RB0\_99% BW



Date: 5.AUG.2019 13:39:42

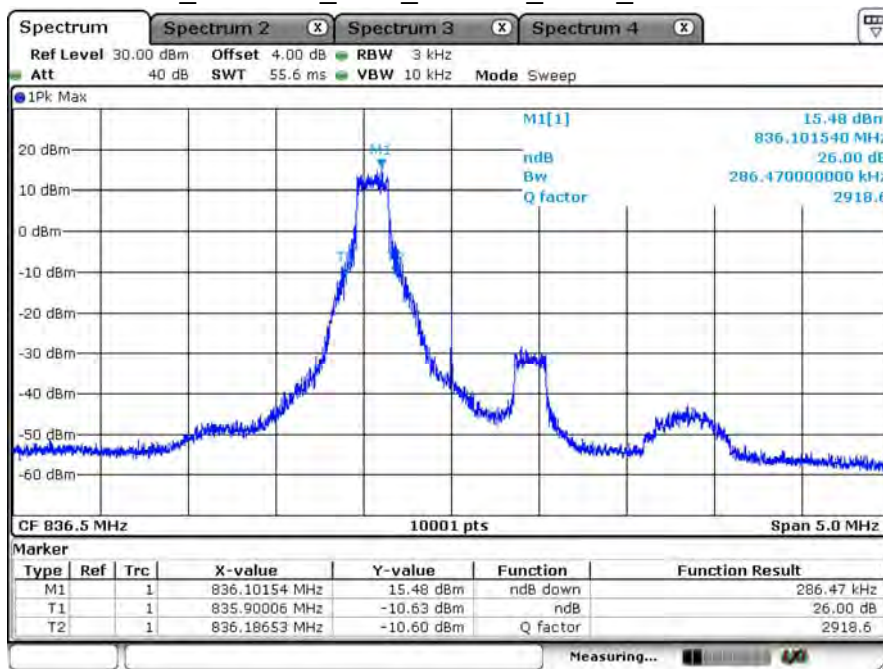
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Date: 5.AUG.2019 14:15:20

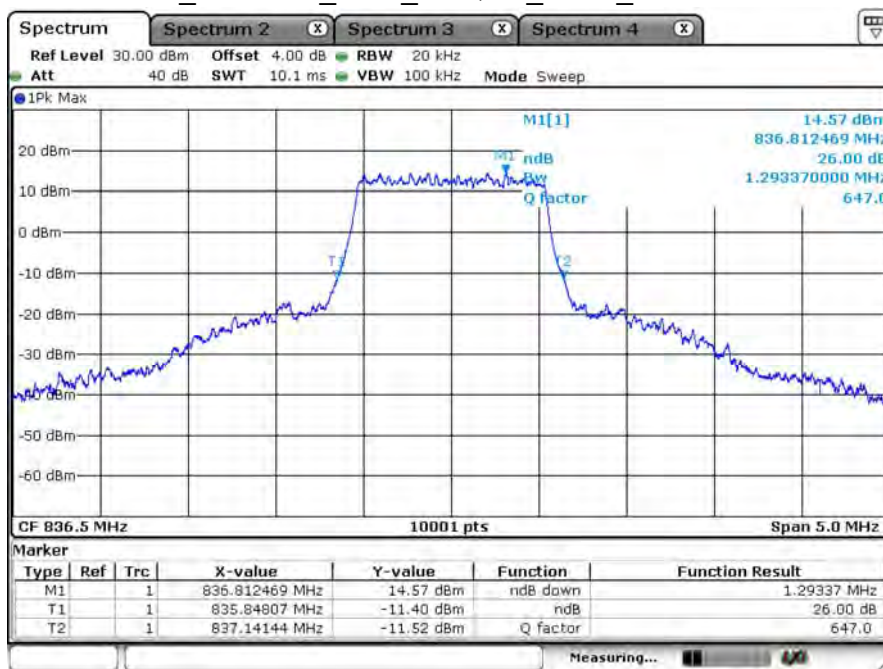


B5\_CH20525\_1.4M\_16-QAM\_1RB0\_26dB BW



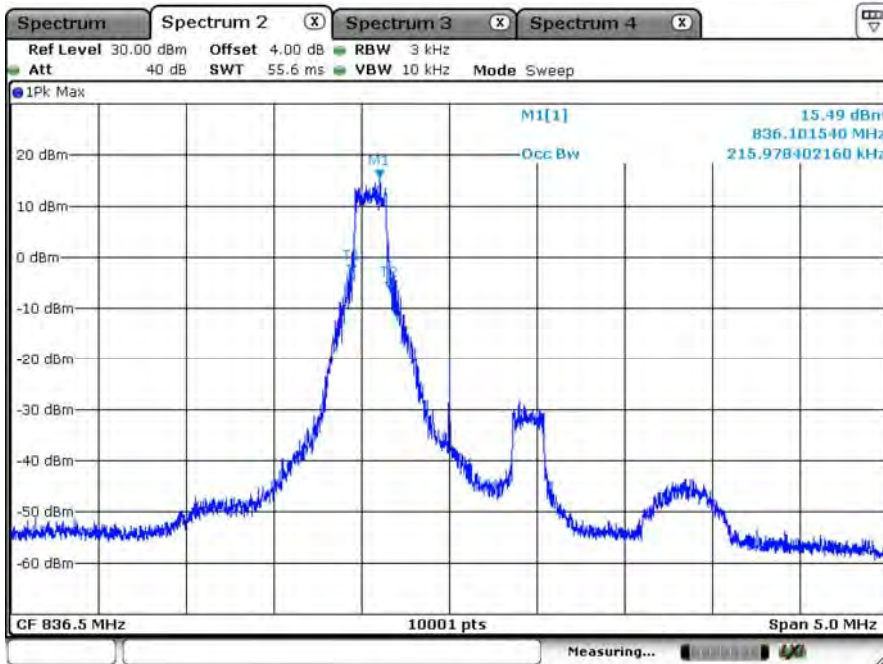
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B5\_CH20525\_1.4M\_16-QAM\_6RB0\_26dB BW



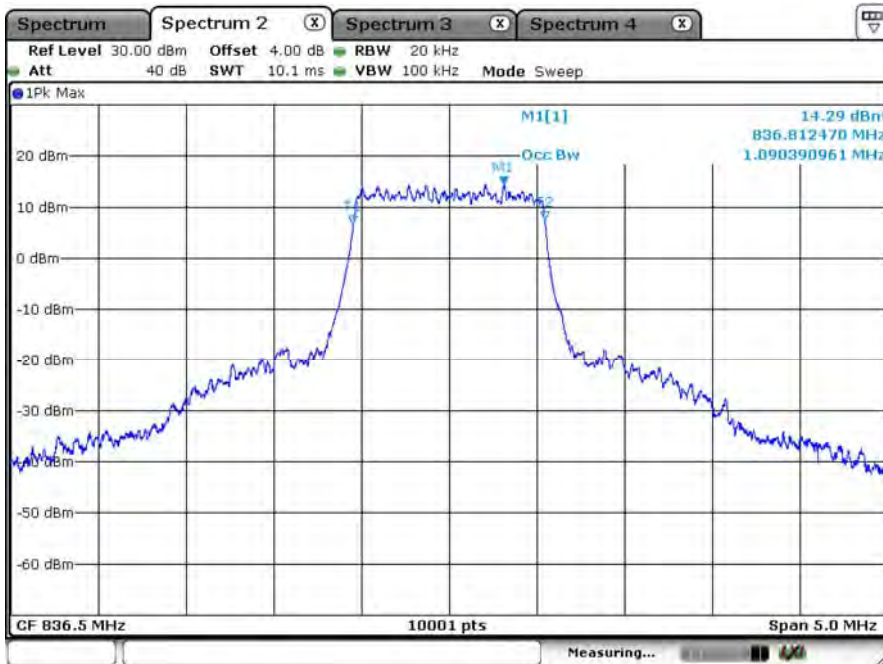
Date: 5.AUG.2019 14:13:19

### B5\_CH20525\_1.4M\_16-QAM\_1RB0\_99% BW



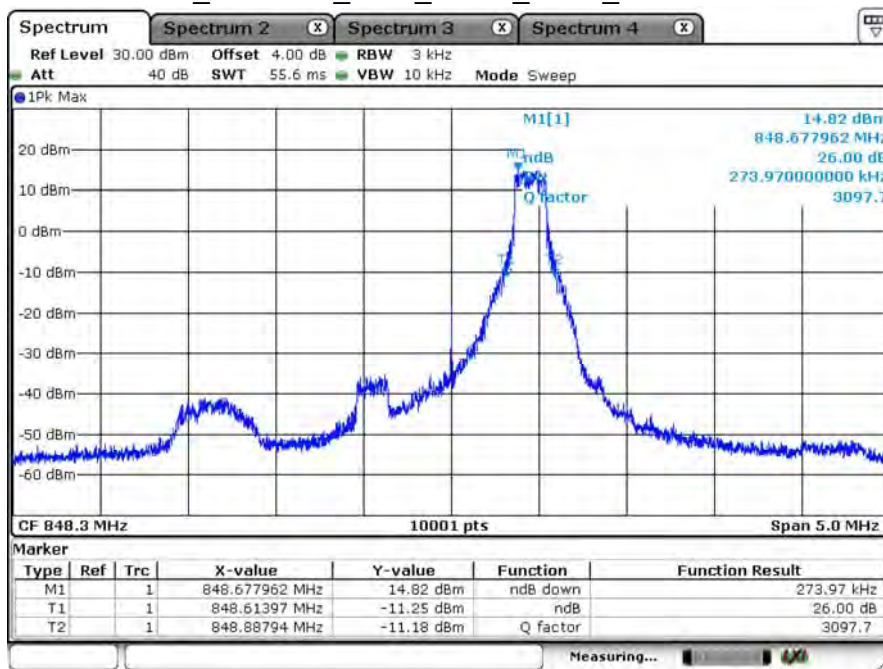
Date: 5.AUG.2019 13:41:40

### B5\_CH20525\_1.4M\_16-QAM\_6RB0\_99% BW



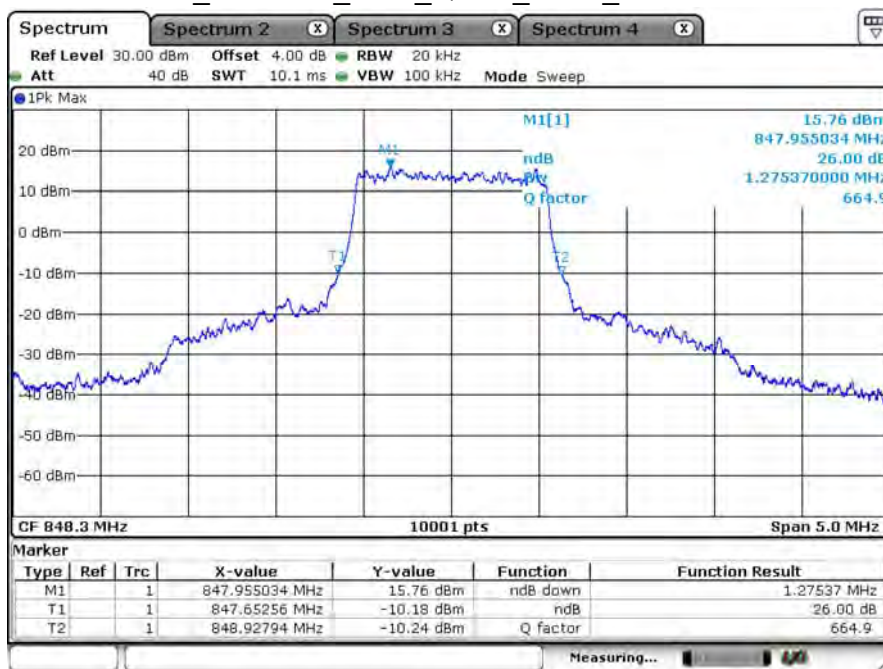
Date: 5.AUG.2019 14:11:55

### B5\_CH20643\_1.4M\_QPSK\_1RB5\_26dB BW



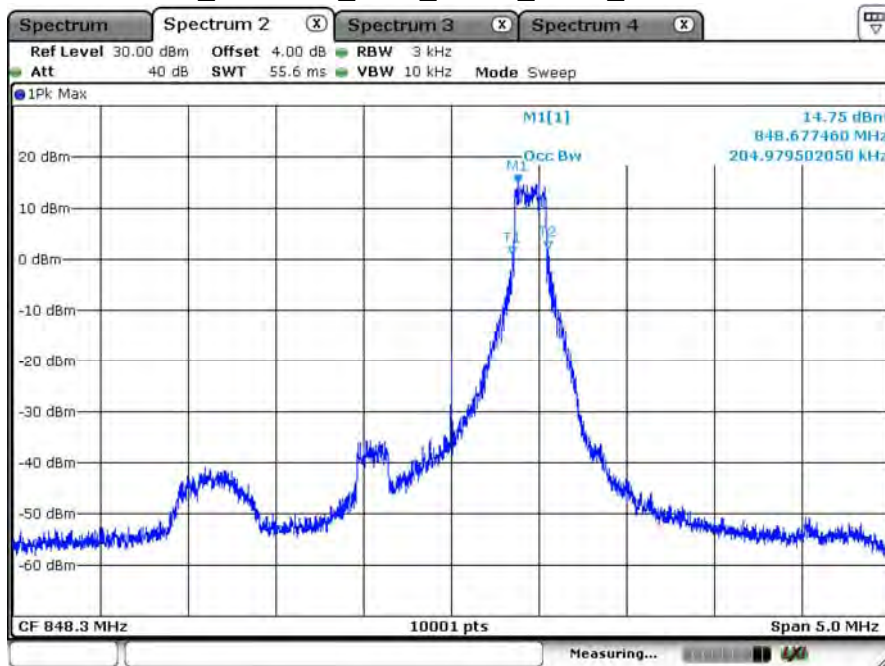
Date: 5.AUG.2019 13:49:47

### B5\_CH20643\_1.4M\_QPSK\_6RB0\_26dB BW

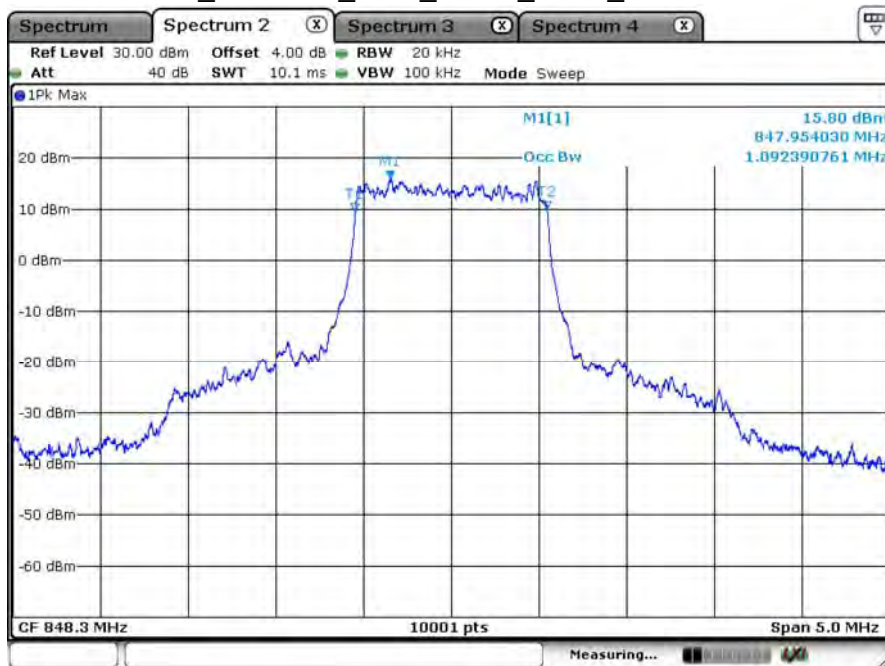


Date: 5.AUG.2019 14:01:01

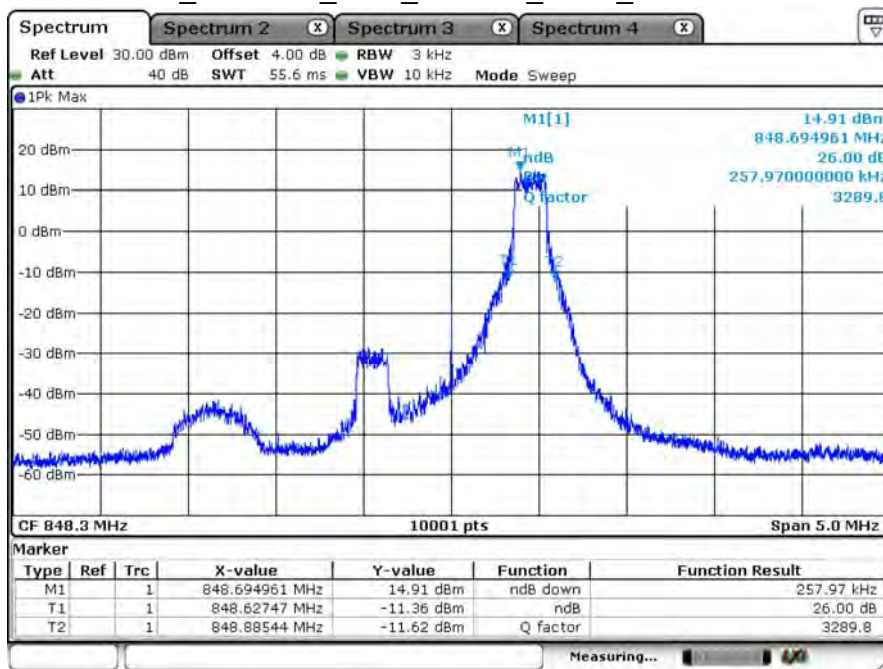
B5\_CH20643\_1.4M\_QPSK\_1RB5\_99% BW



B5\_CH20643\_1.4M\_QPSK\_6RB0\_99% BW

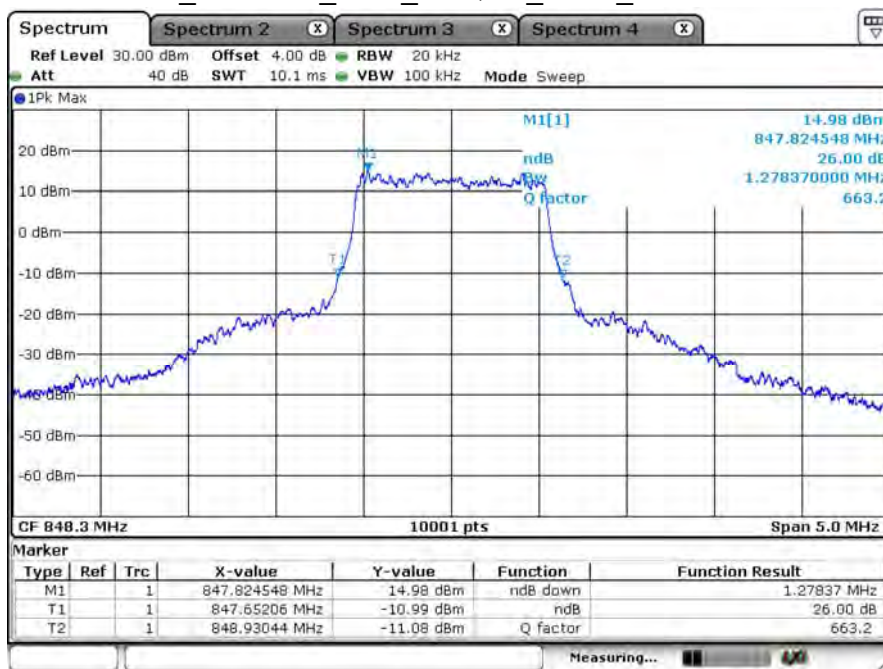


B5\_CH20643\_1.4M\_16-QAM\_1RB5\_26dB BW



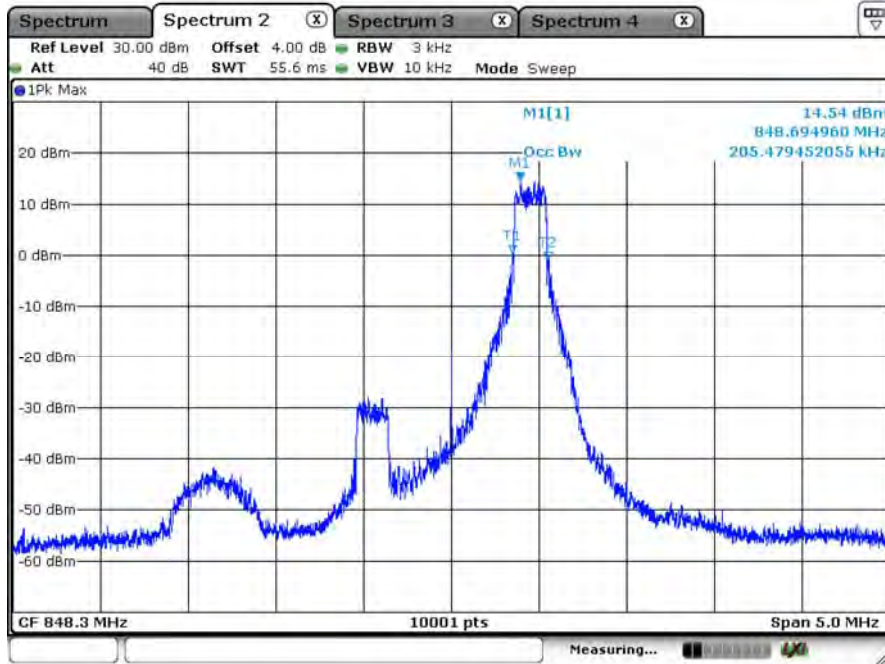
Date: 5.AUG.2019 13:50:45

B5\_CH20643\_1.4M\_16-QAM\_6RB0\_26dB BW

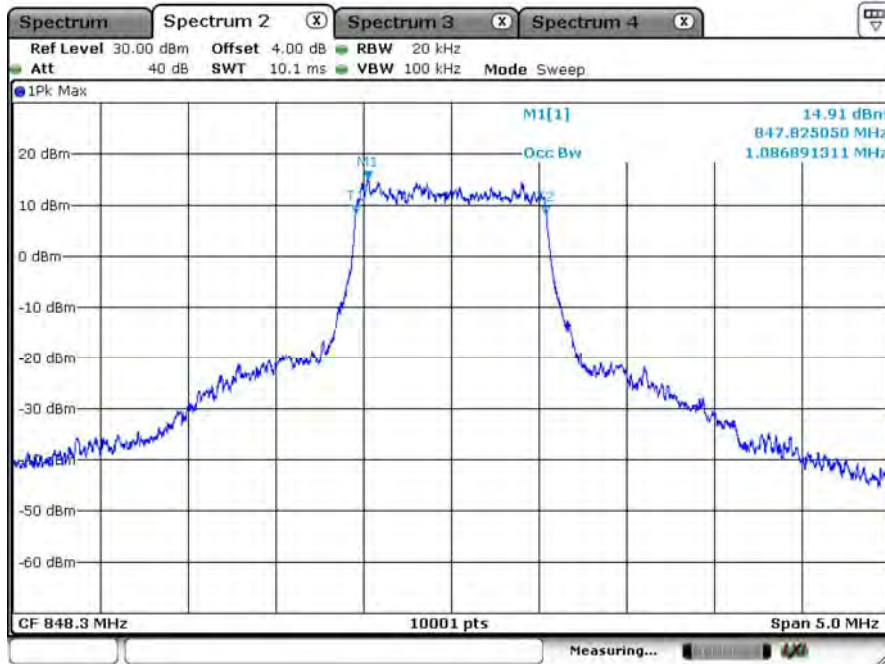


Date: 5.AUG.2019 14:10:11

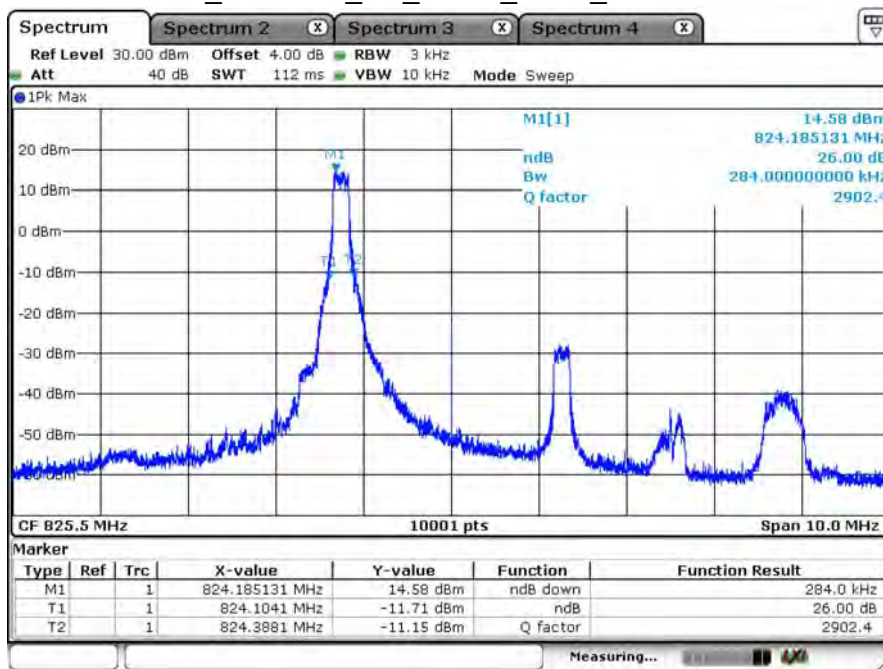
### B5\_CH20643\_1.4M\_16-QAM\_1RB5\_99% BW



### B5\_CH20643\_1.4M\_16-QAM\_6RB0\_99% BW

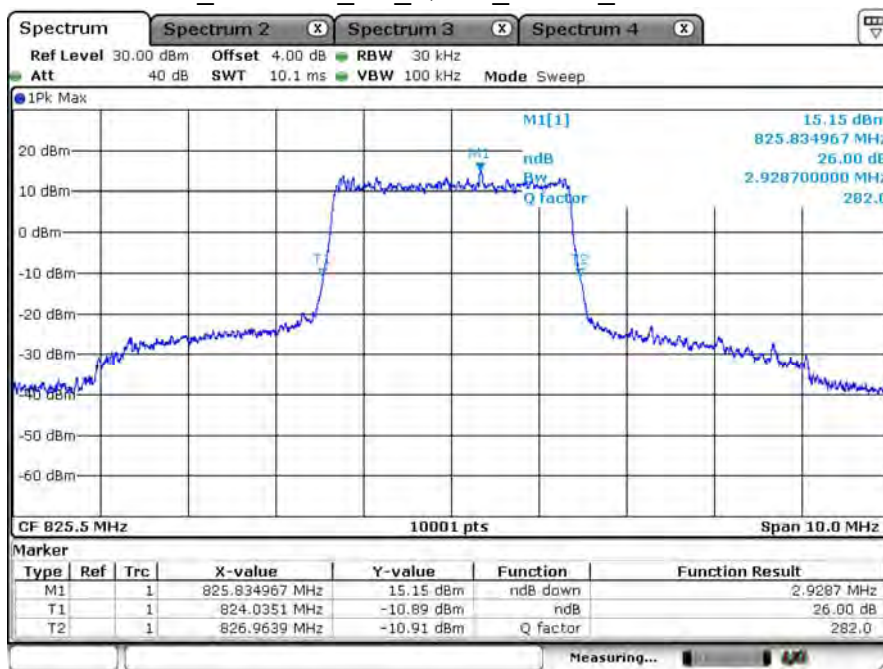


### B5\_CH20415\_3M\_QPSK\_1RB0\_26dB BW



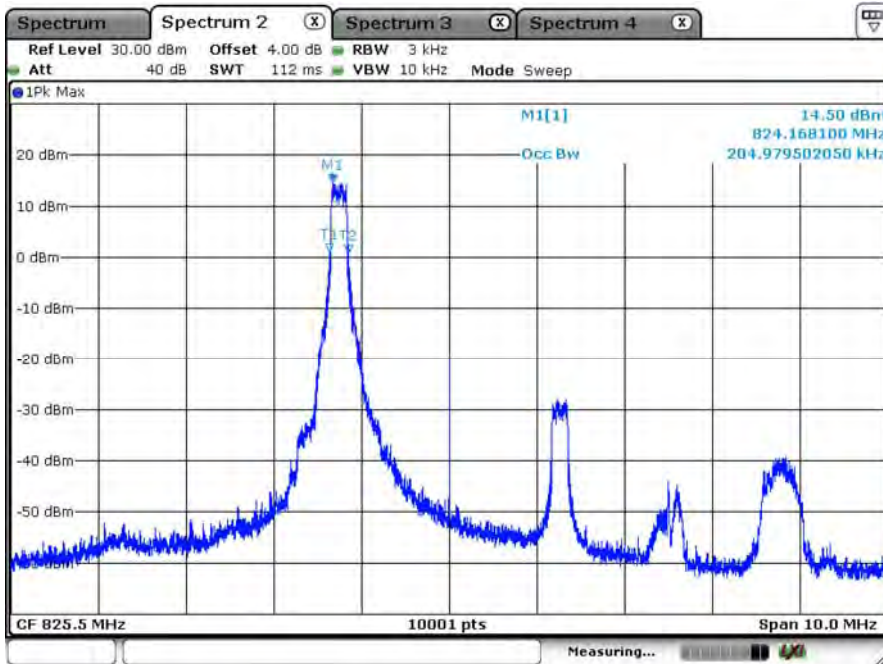
Date: 5.AUG.2019 14:25:04

### B5\_CH20415\_3M\_QPSK\_15RB0\_26dB BW



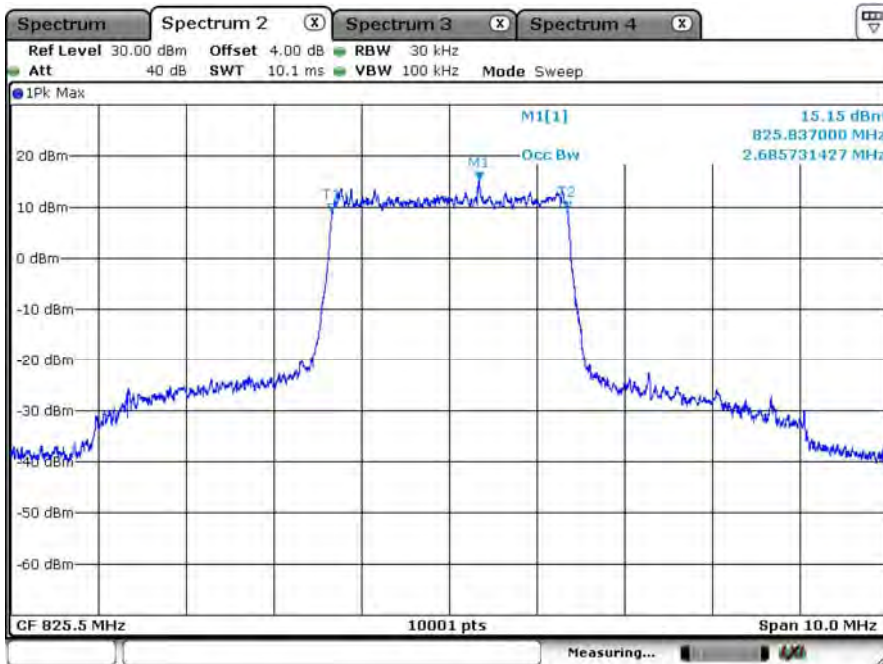
Date: 5.AUG.2019 15:12:04

B5\_CH20415\_3M\_QPSK\_1RB0\_99% BW



Date: 5.AUG.2019 14:25:58

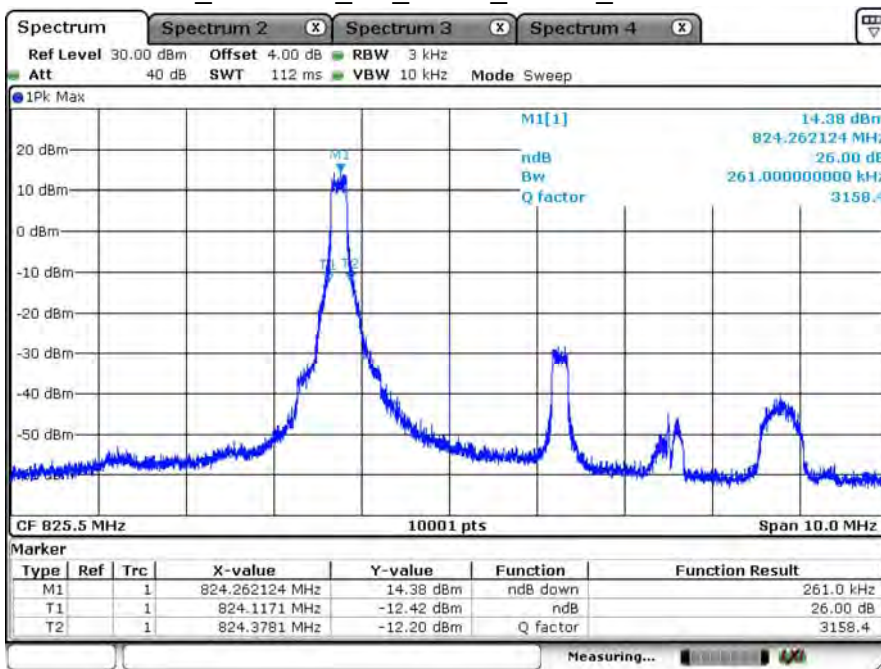
B5\_CH20415\_3M\_QPSK\_15RB0\_99% BW



Date: 5.AUG.2019 15:12:50

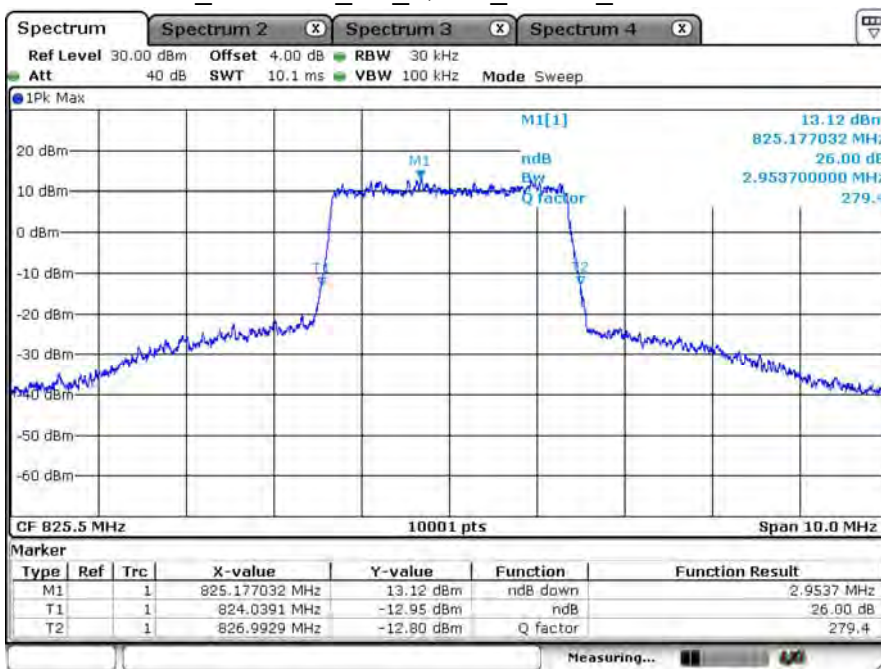


B5\_CH20415\_3M\_QPSK\_15RB0\_26dB BW



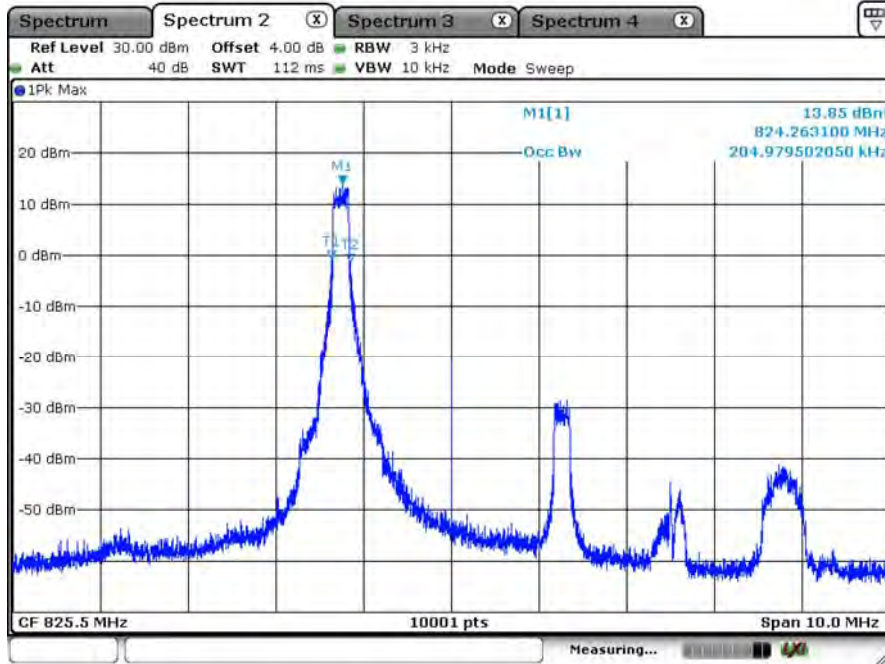
Date: 5.AUG.2019 14:29:48

B5\_CH20415\_3M\_QPSK\_15RB0\_26dB BW



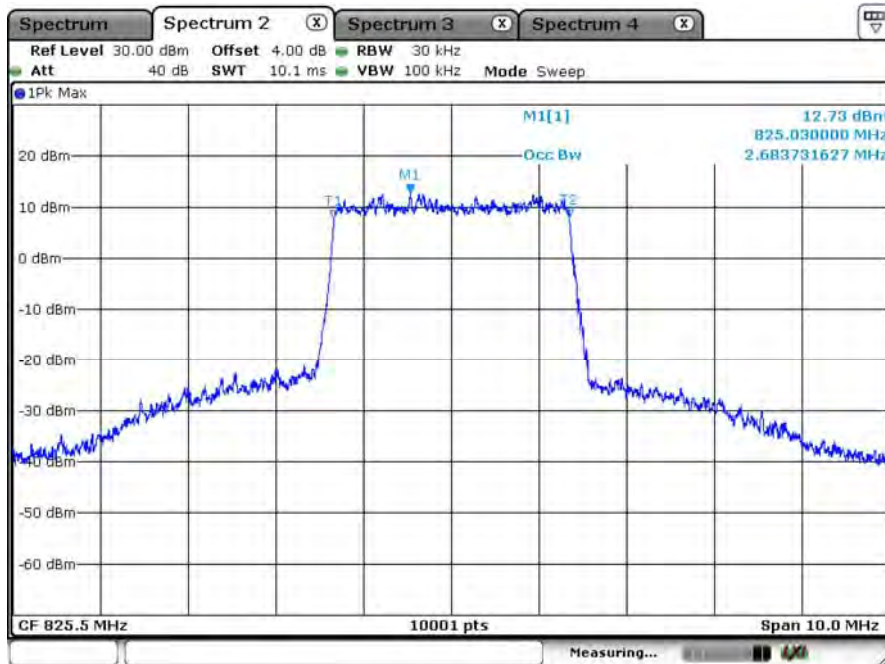
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### B5\_CH20415\_3M\_QPSK\_15RB0\_99% BW



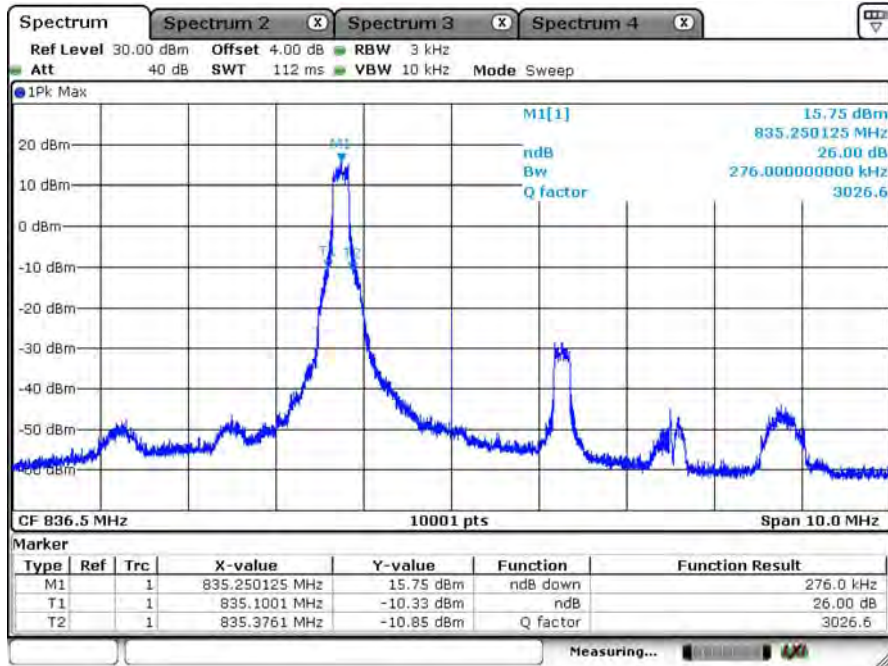
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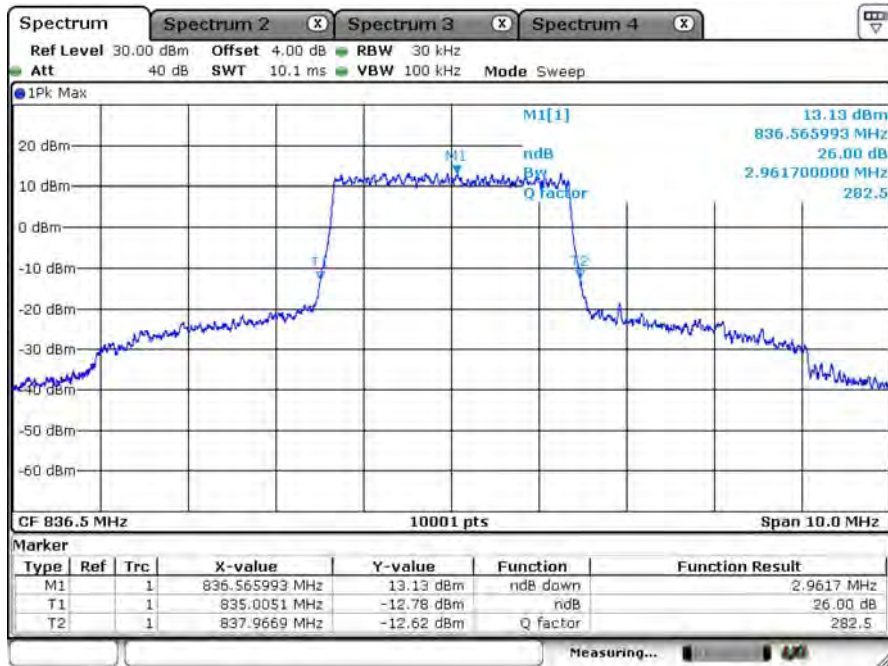
Date: 5.AUG.2019 15:09:54

### B5\_CH20525\_3M\_QPSK\_1RB0\_26dB BW



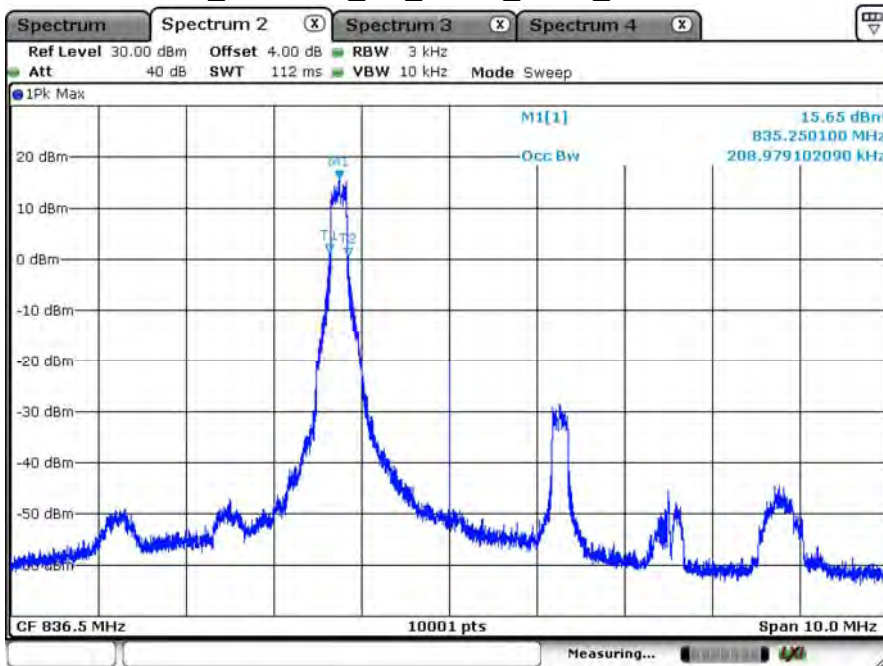
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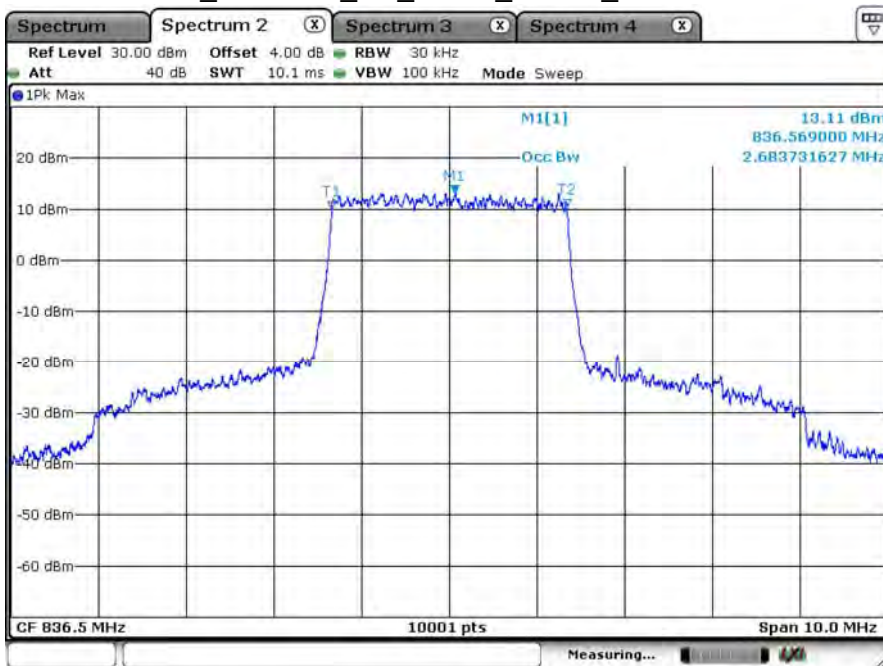
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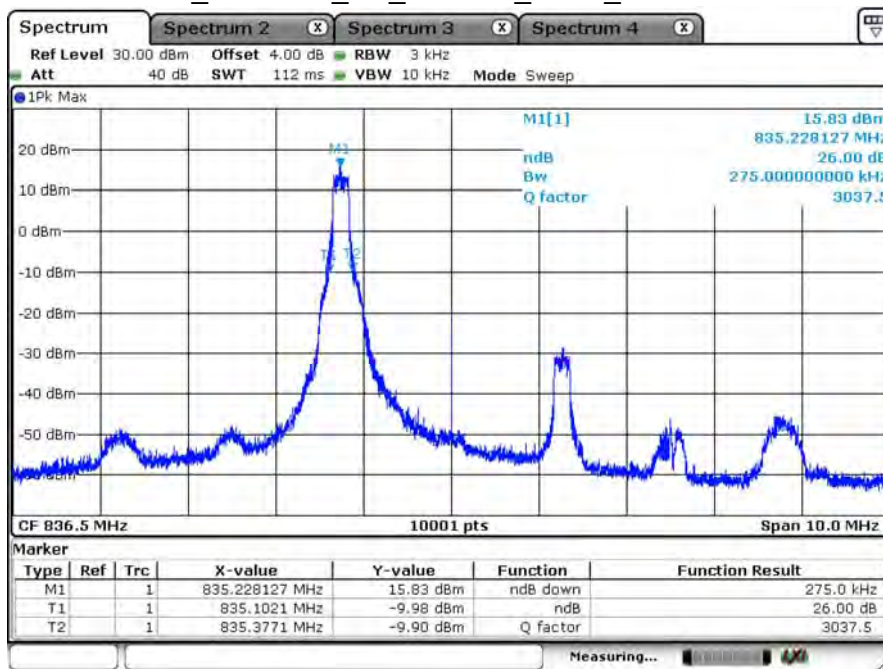
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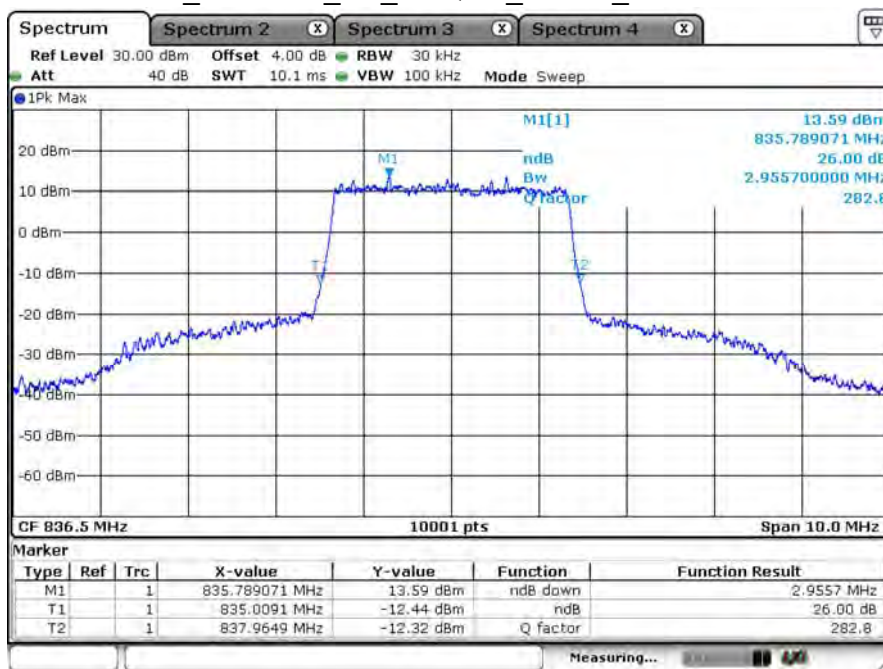
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B5\_CH20525\_3M\_16-QAM\_1RB0\_26dB BW



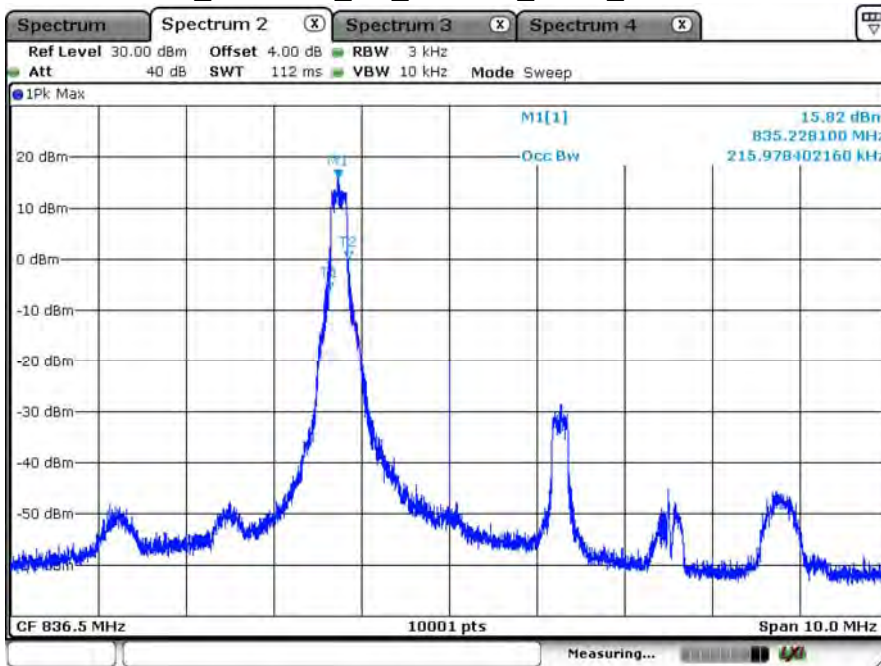
Date: 5.AUG.2019 14:30:58

B5\_CH20525\_3M\_16-QAM\_15RB0\_26dB BW



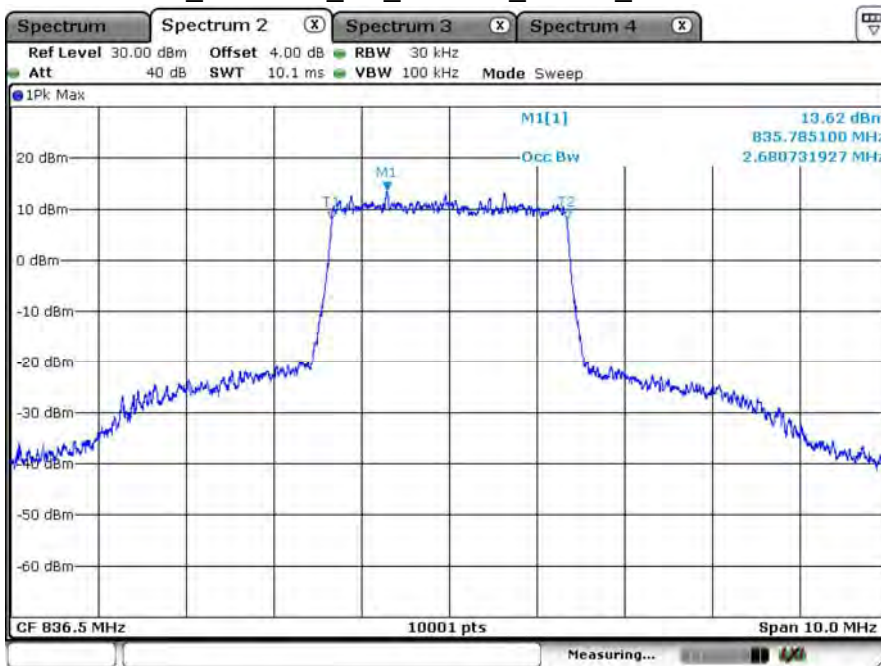
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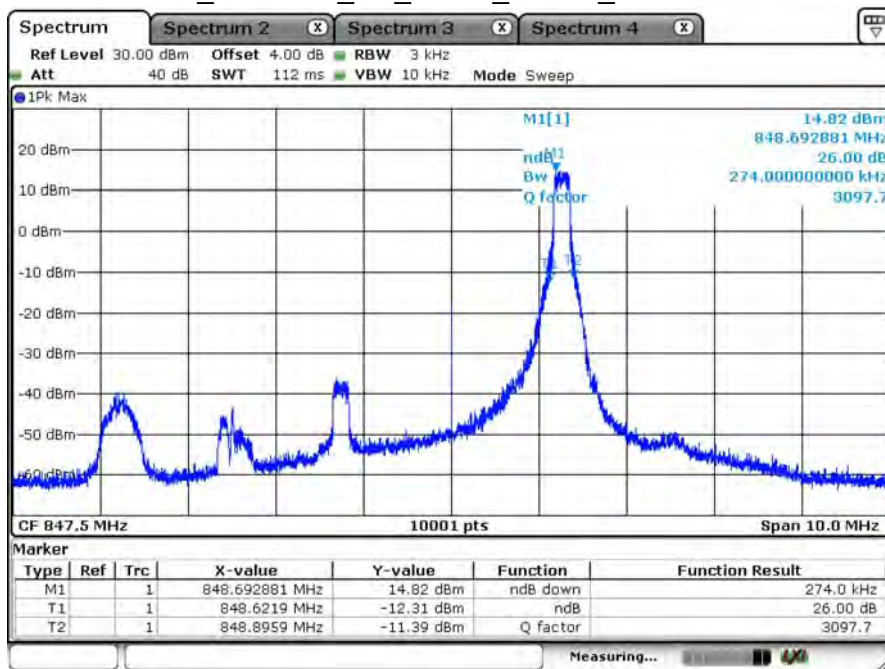
Date: 5.AUG.2019 14:31:56

### B5\_CH20525\_3M\_16-QAM\_15RB0\_99% BW



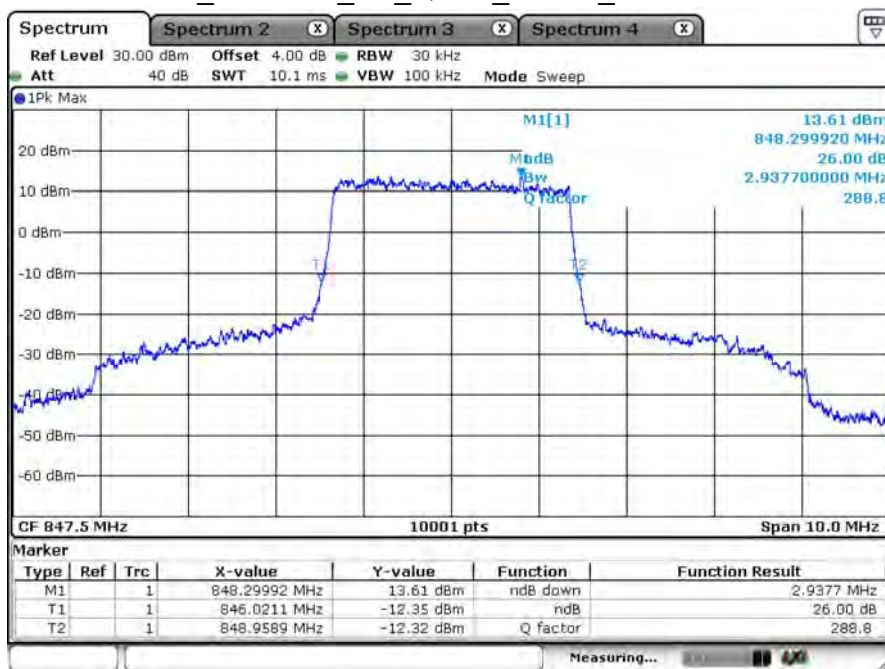
Date: 5.AUG.2019 15:04:54

### B5\_CH20635\_3M\_QPSK\_1RB14\_26dB BW



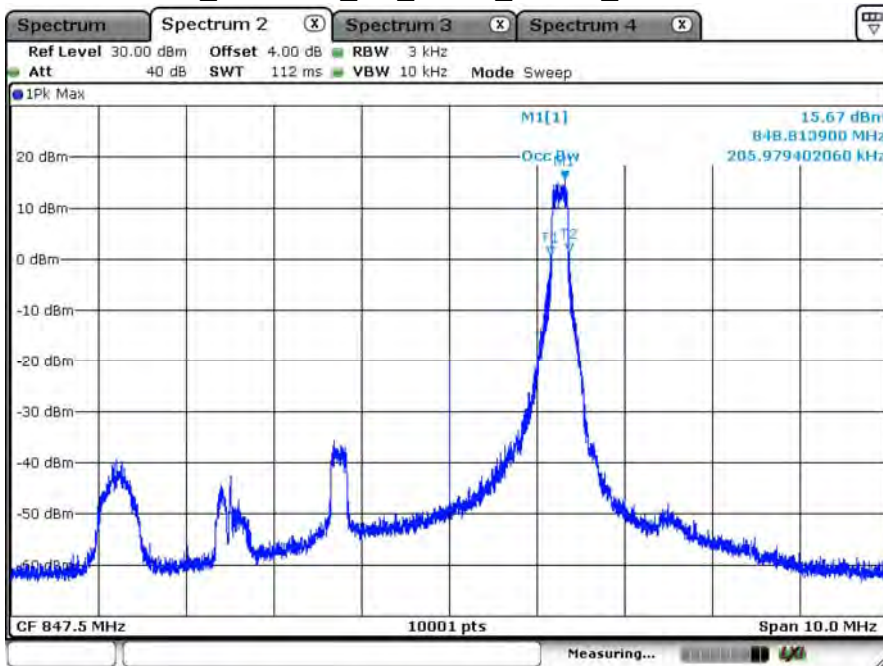
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### B5\_CH20635\_3M\_QPSK\_15RB0\_26dB BW



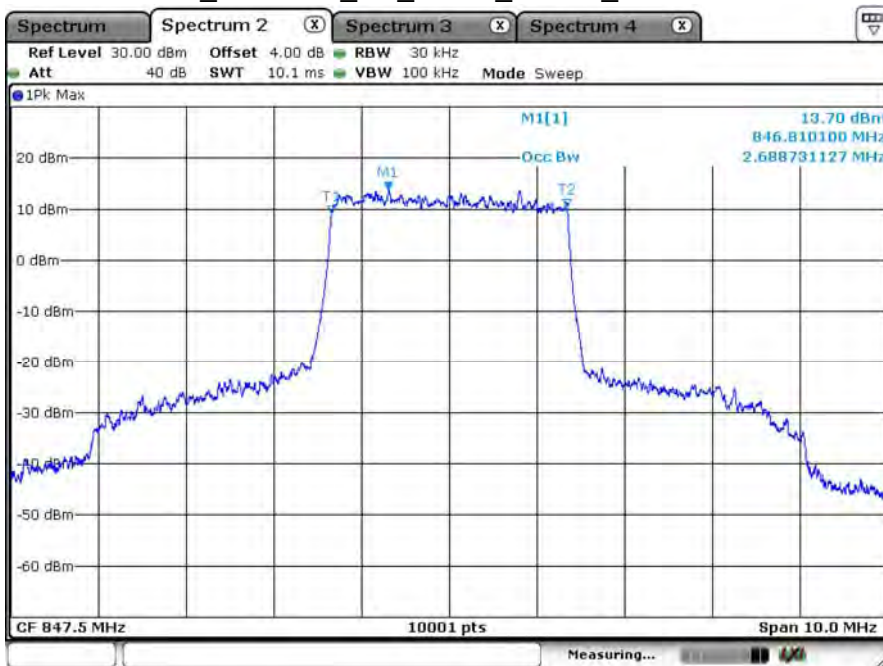
Date: 5.AUG.2019 14:52:38

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Date: 5.AUG.2019 14:38:10

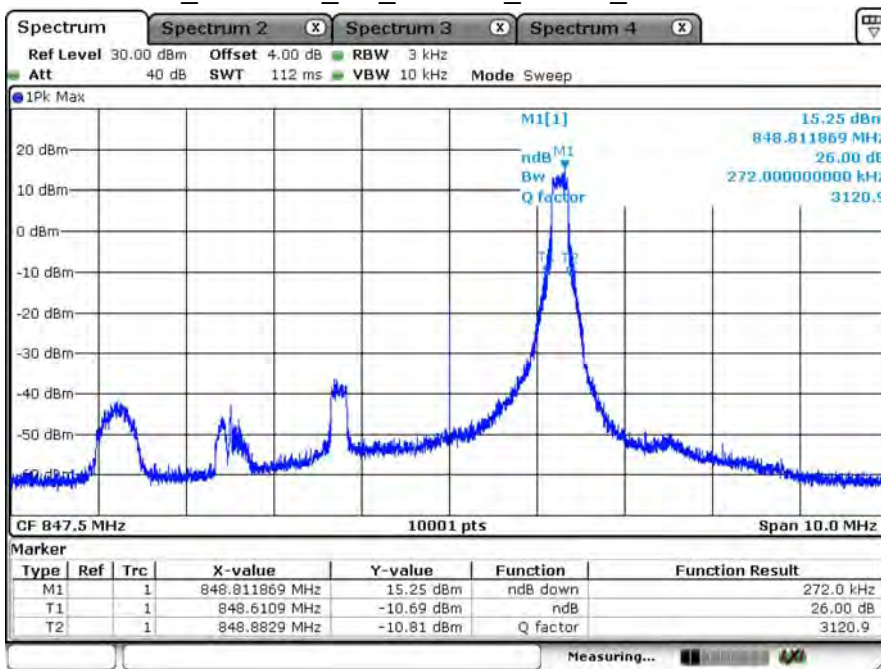
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Date: 5.AUG.2019 14:55:34

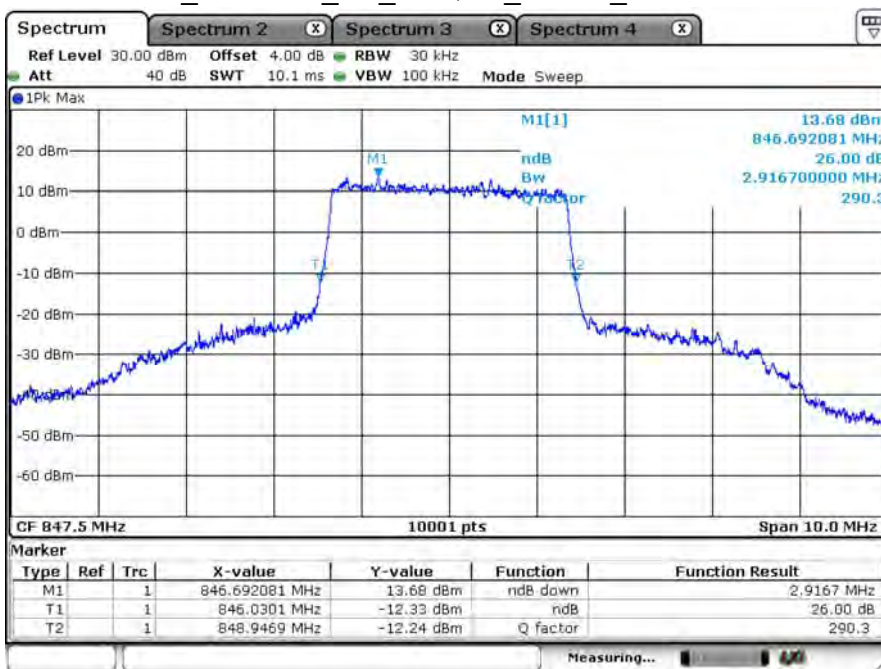


B5\_CH20635\_3M\_16-QAM\_1RB14\_26dB BW



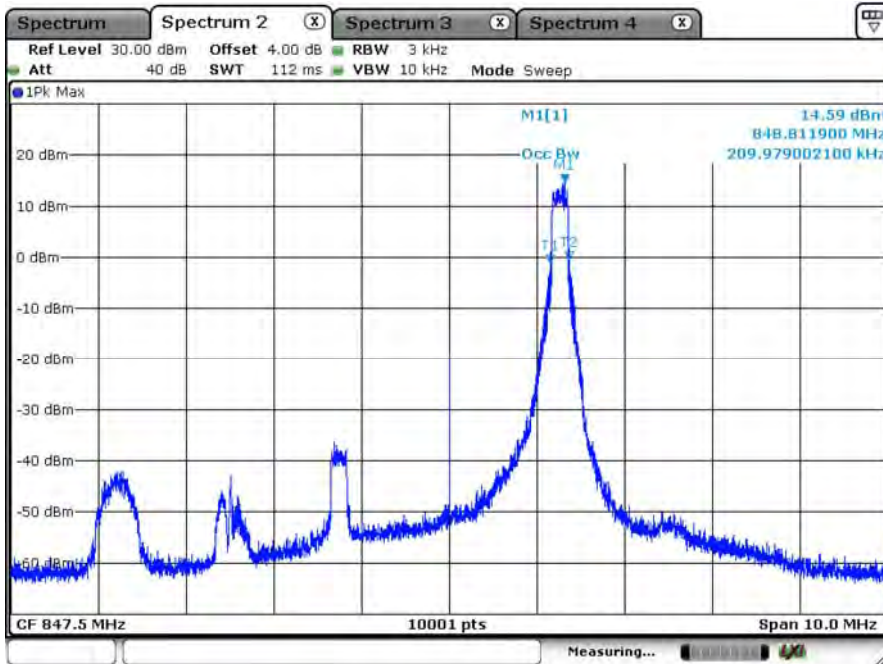
Date: 5.AUG.2019 14:47:45

B5\_CH20635\_3M\_16-QAM\_15RB0\_26dB BW



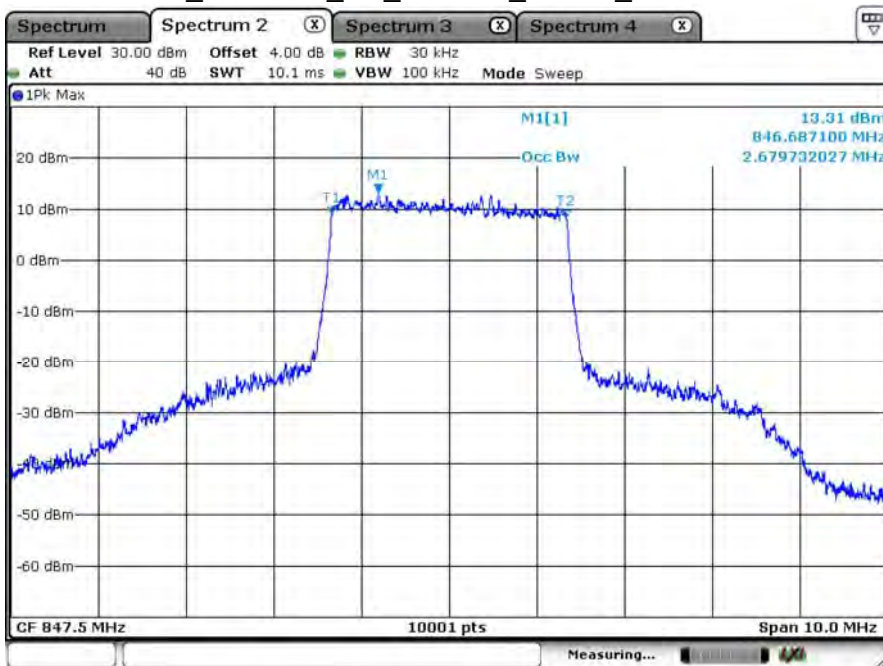
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B5\_CH20635\_3M\_16-QAM\_1RB14\_99% BW



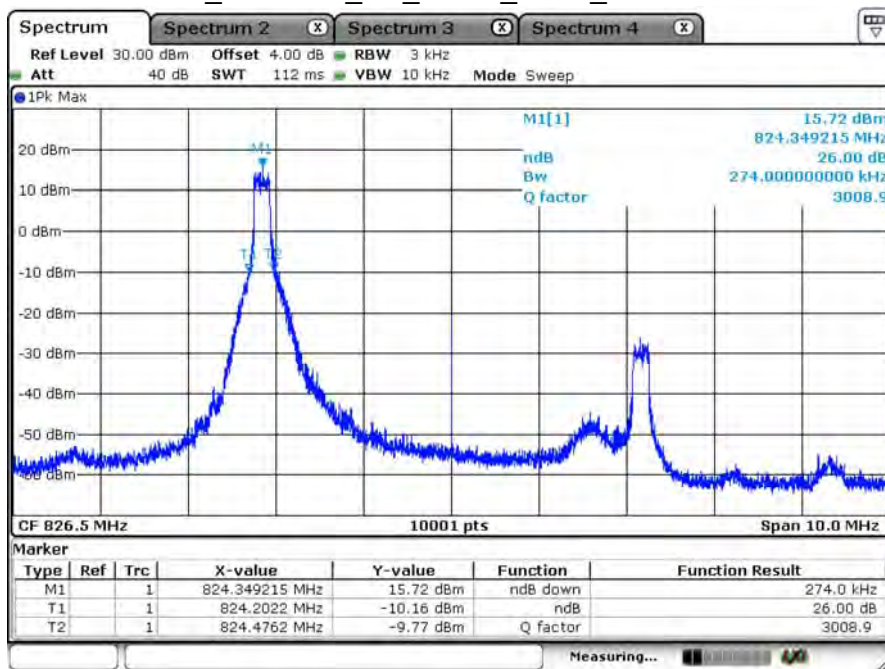
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B5\_CH20635\_3M\_16-QAM\_15RB0\_99% BW



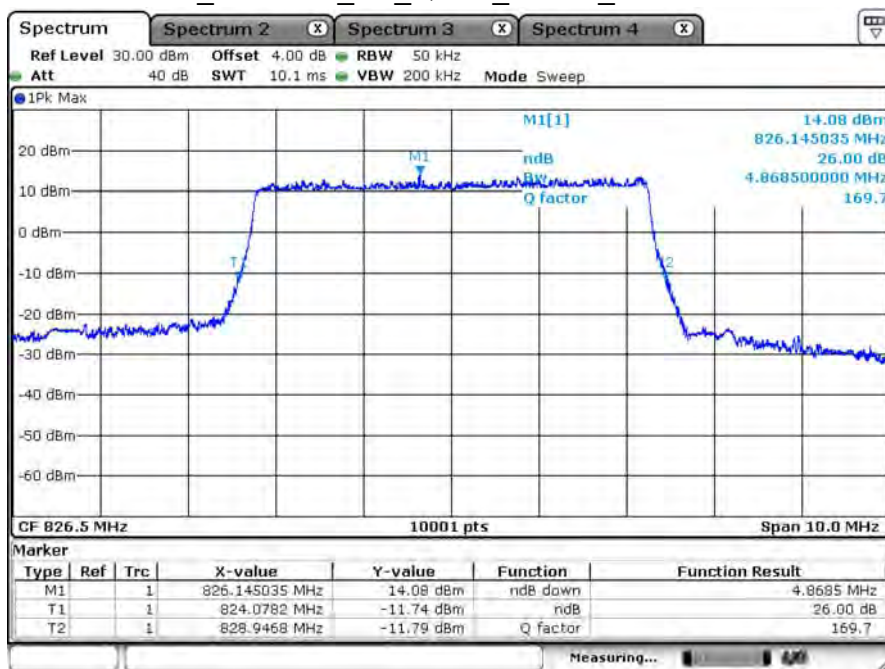
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### B5\_CH20425\_5M\_QPSK\_1RB0\_26dB BW



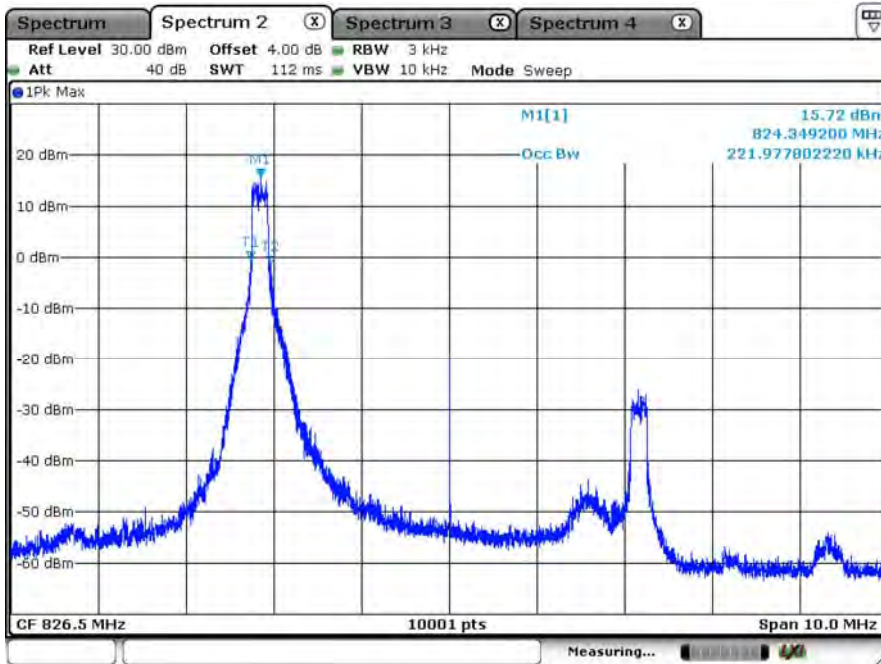
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### B5\_CH20425\_5M\_QPSK\_25RB0\_26dB BW



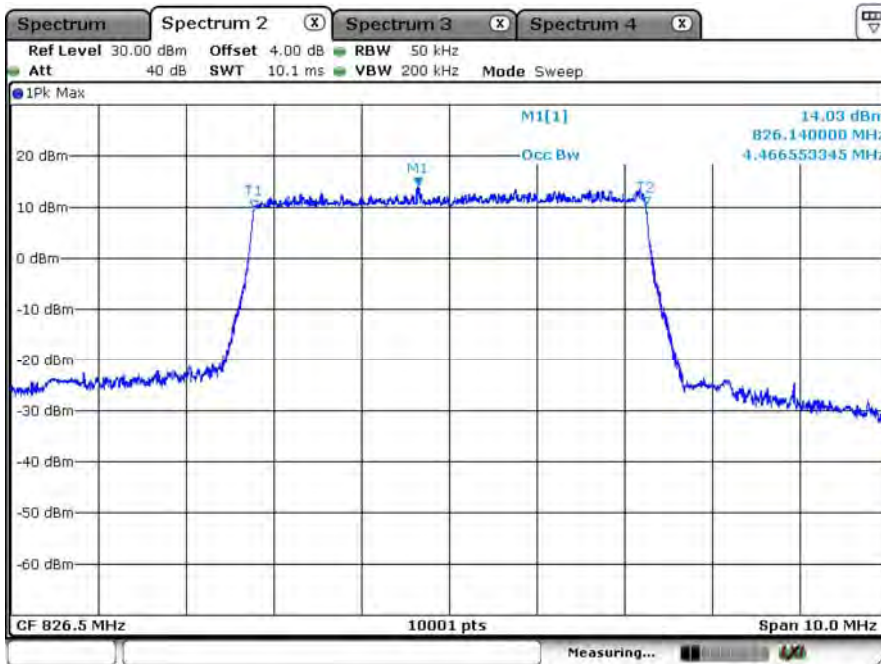
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### B5\_CH20425\_5M\_QPSK\_1RB0\_99% BW



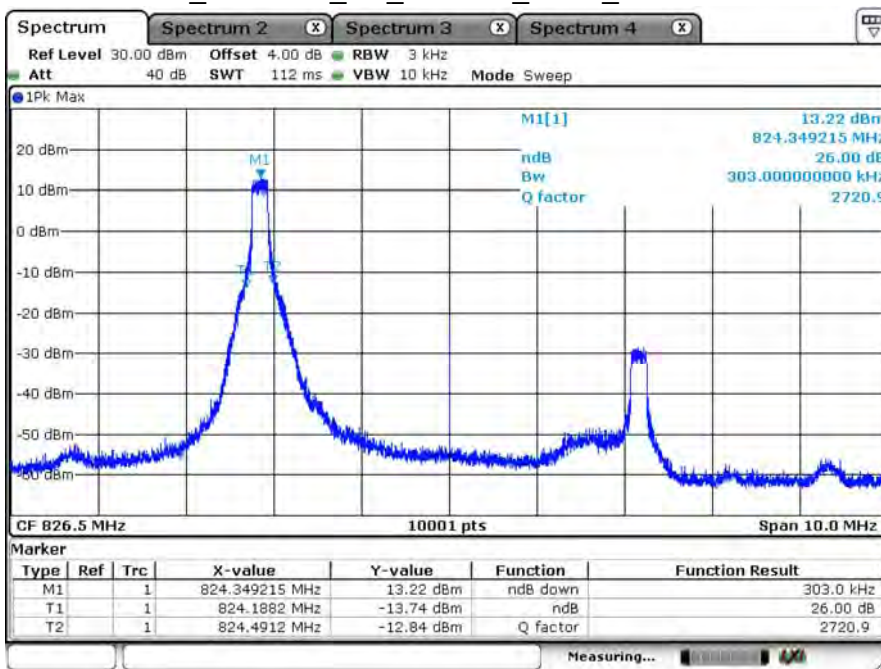
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### B5\_CH20425\_5M\_QPSK\_25RB0\_99% BW



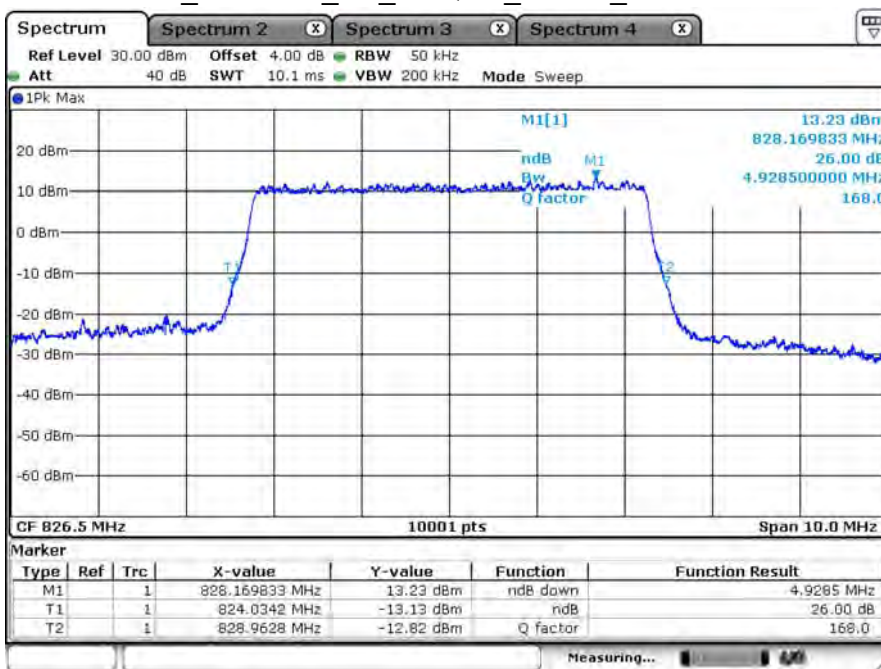
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### B5\_CH20425\_5M\_16-QAM\_1RB0\_26dB BW



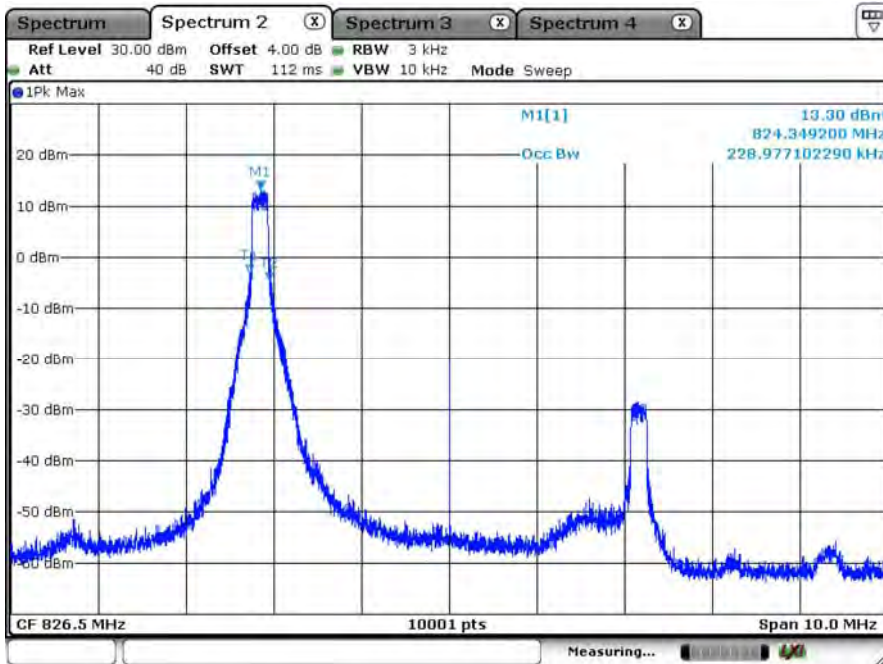
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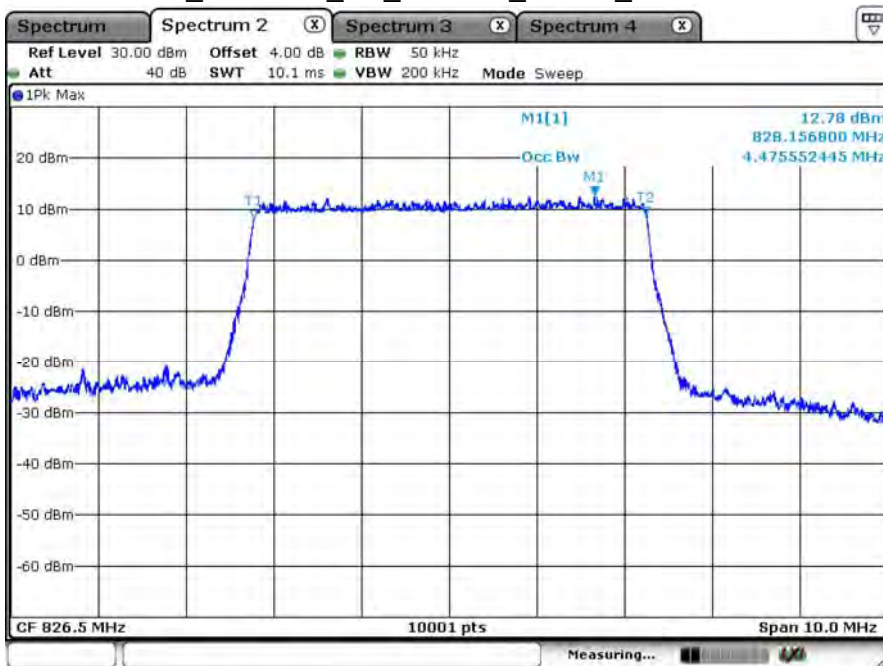
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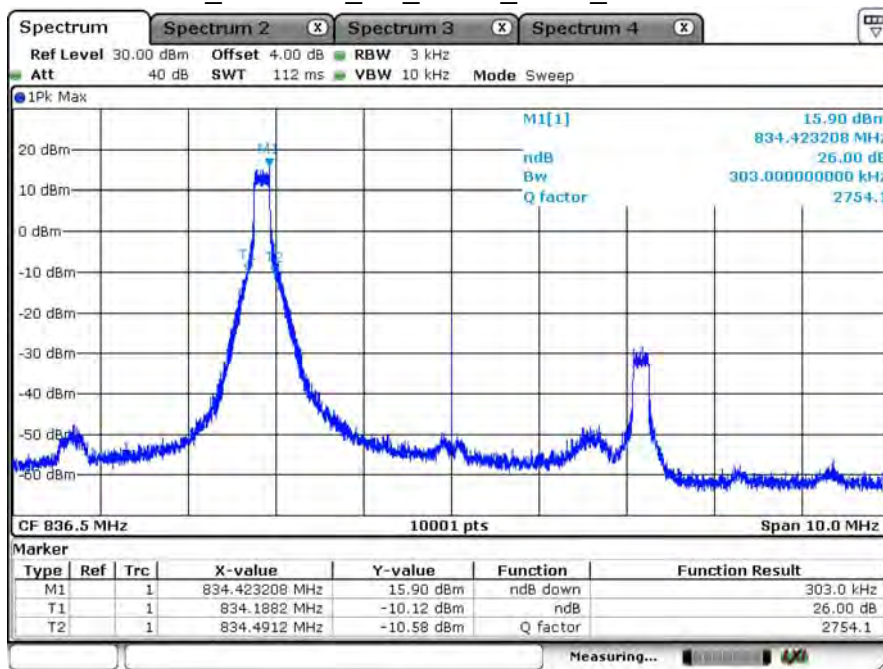
Date: 5.AUG.2019 15:23:46

### B5\_CH20425\_5M\_16-QAM\_25RB0\_99% BW



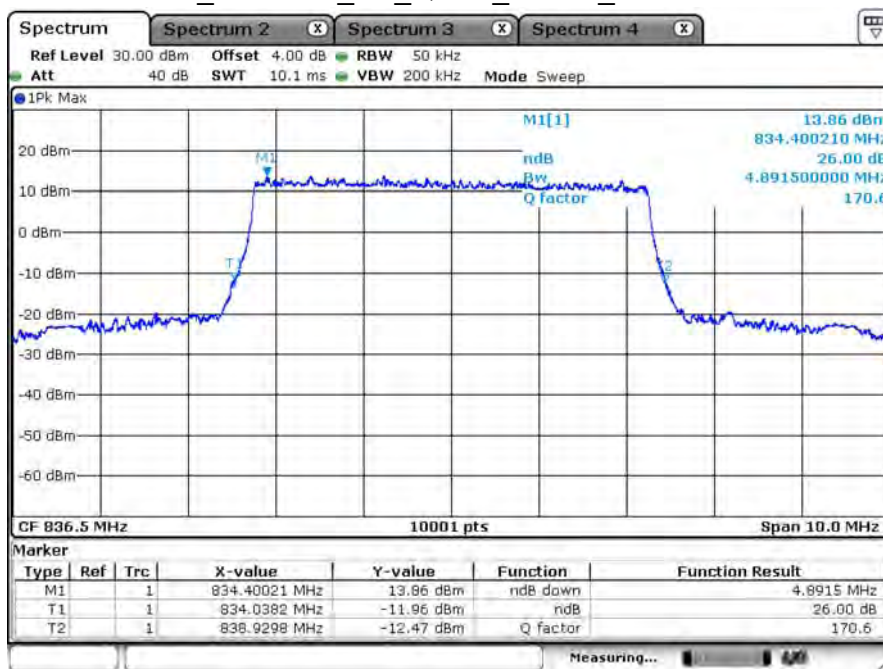
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### B5\_CH20525\_5M\_QPSK\_1RB0\_26dB BW



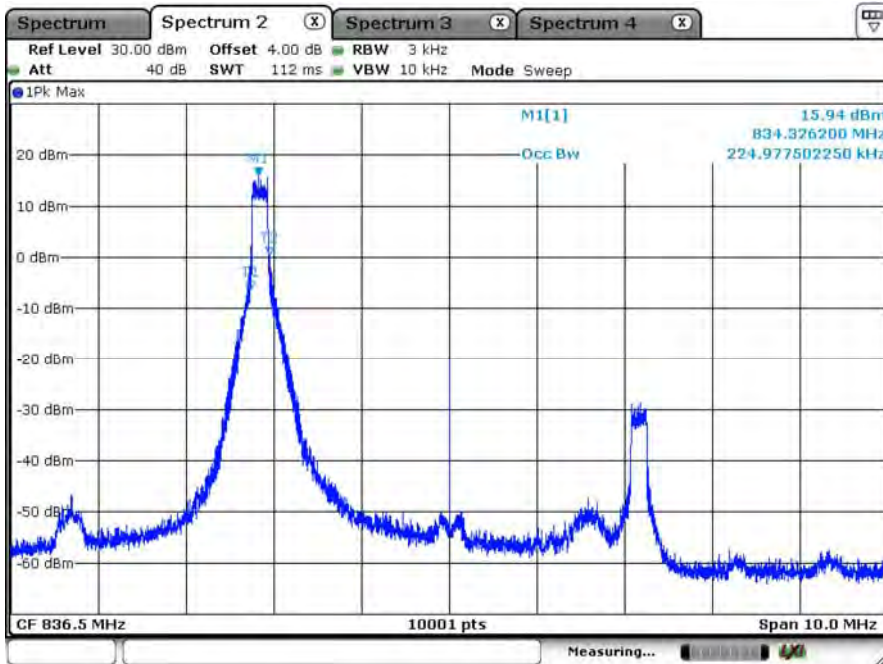
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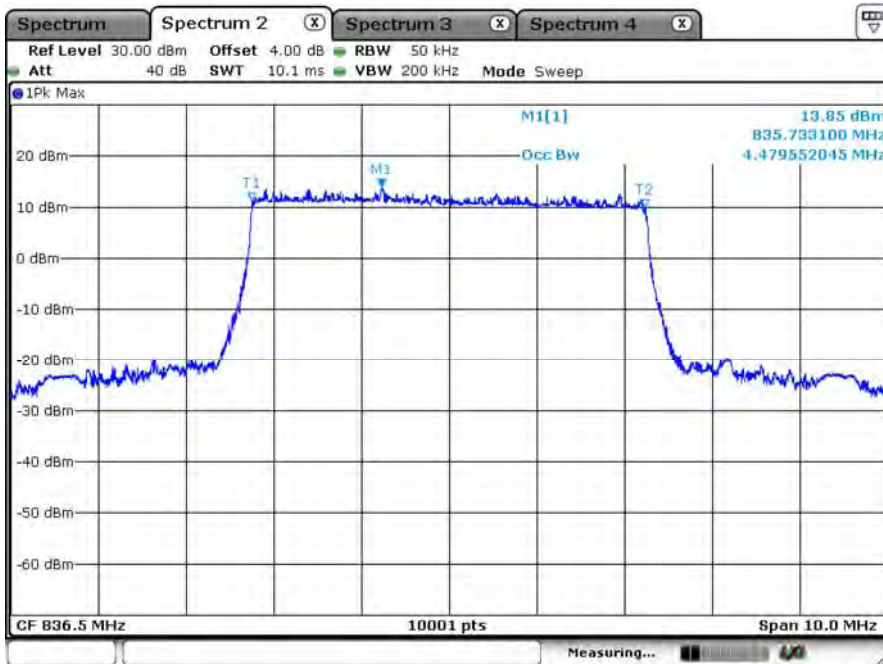


Date: 5.AUG.2019 16:44:23

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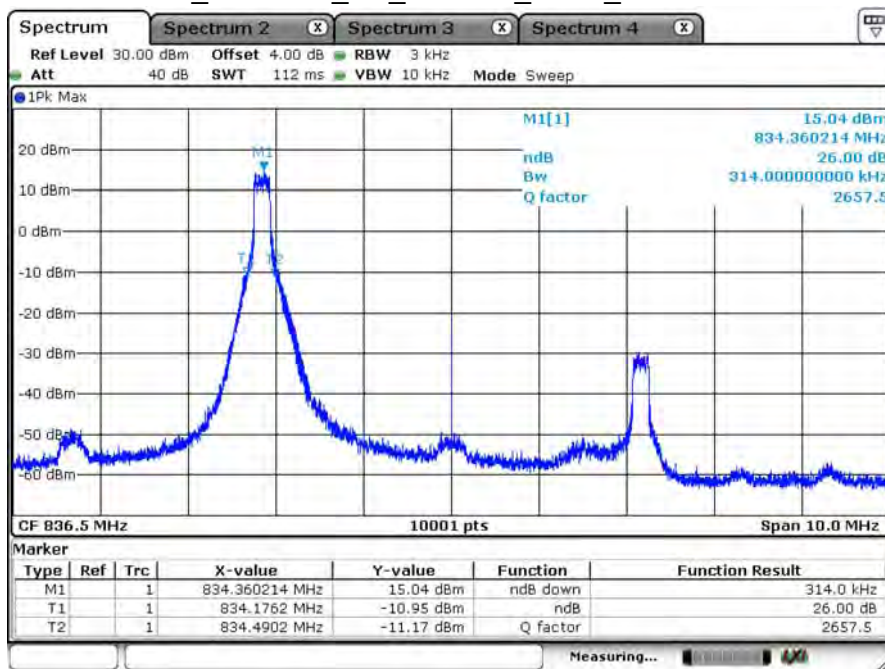


### B5\_CH20525\_5M\_QPSK\_25RB0\_99% BW



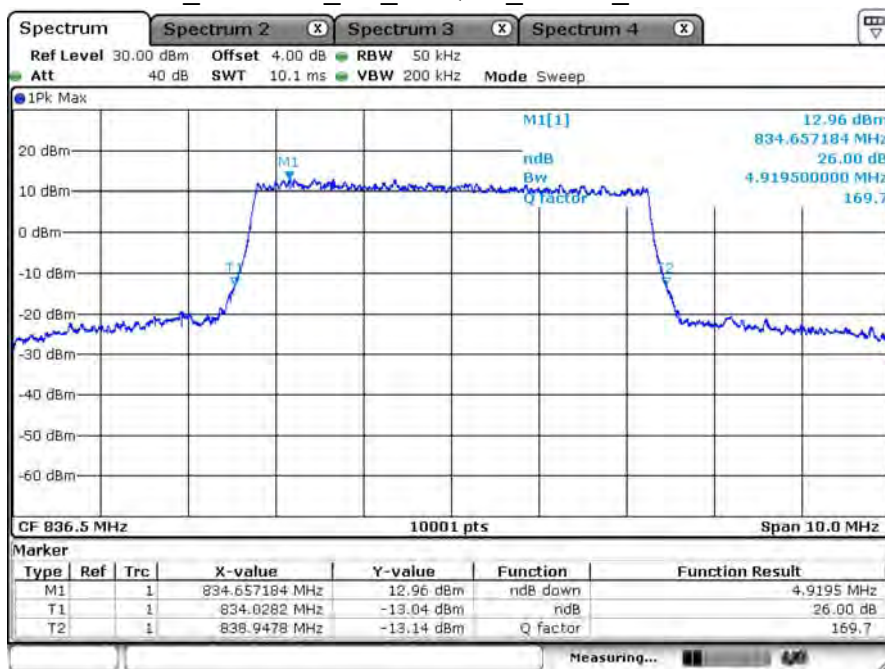


### B5\_CH20525\_5M\_16-QAM\_1RB0\_26dB BW



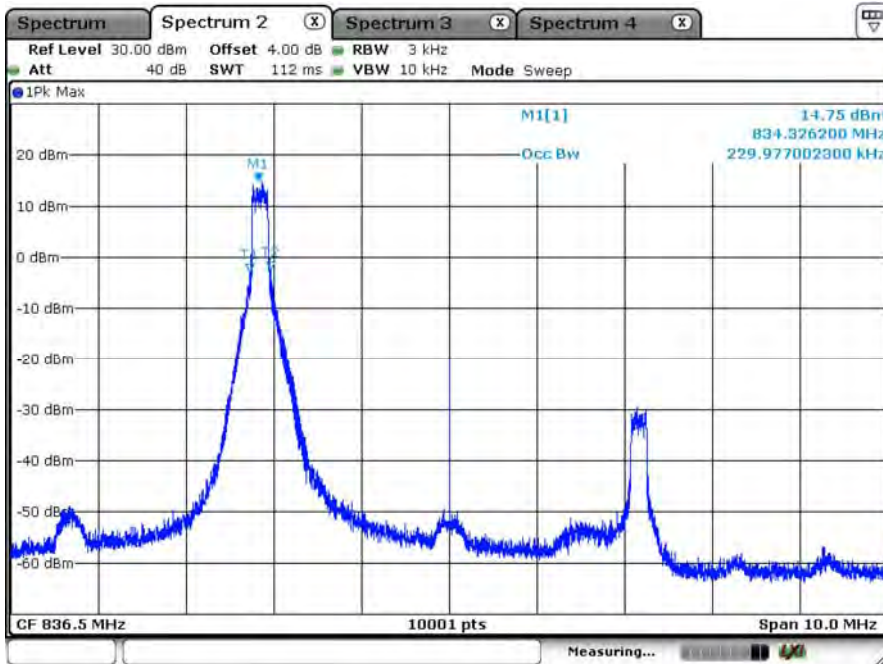
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### B5\_CH20525\_5M\_16-QAM\_25RB0\_26dB BW



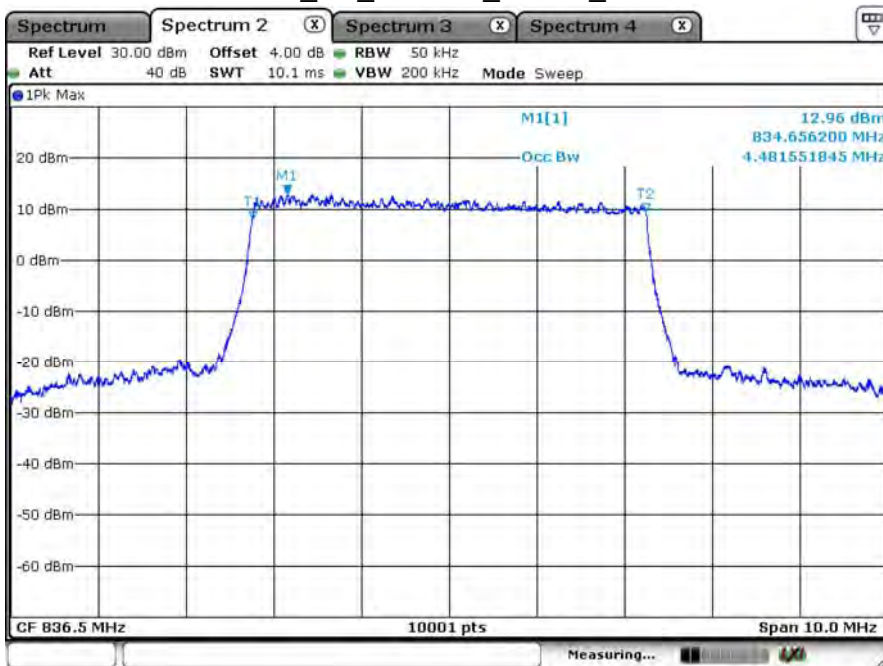
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### B5\_CH20525\_5M\_16-QAM\_1RB0\_99% BW



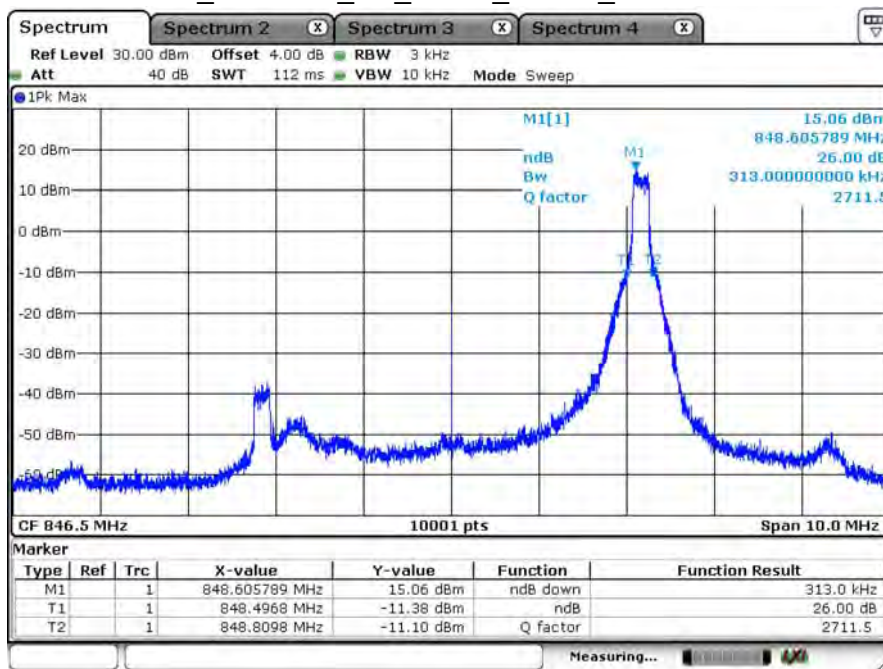
Date: 5.AUG.2019 15:29:15

### CH20525\_5M\_16-QAM\_25RB0\_99% BW



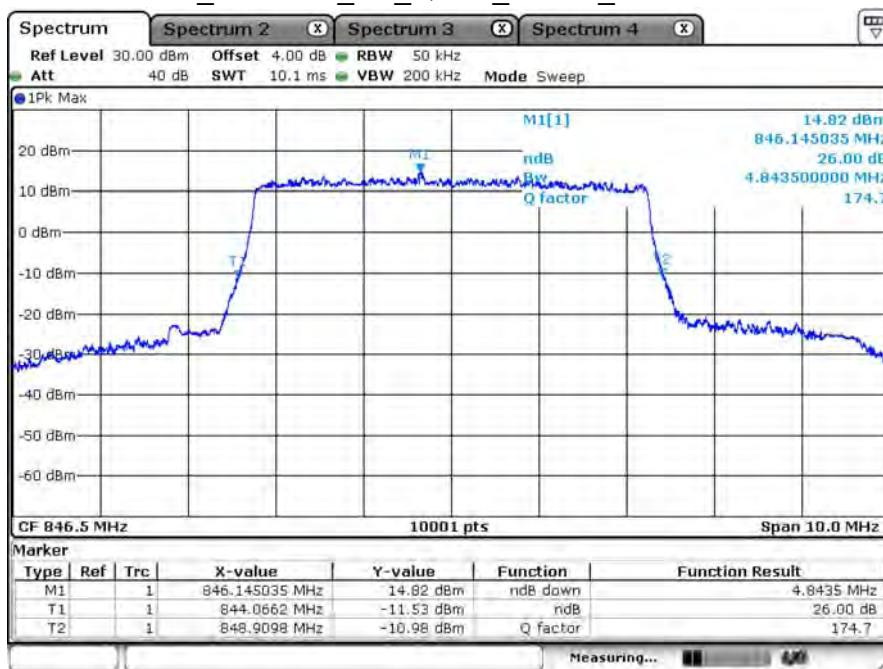
Date: 5.AUG.2019 16:42:22

### B5\_CH20625\_5M\_QPSK\_1RB24\_26dB BW



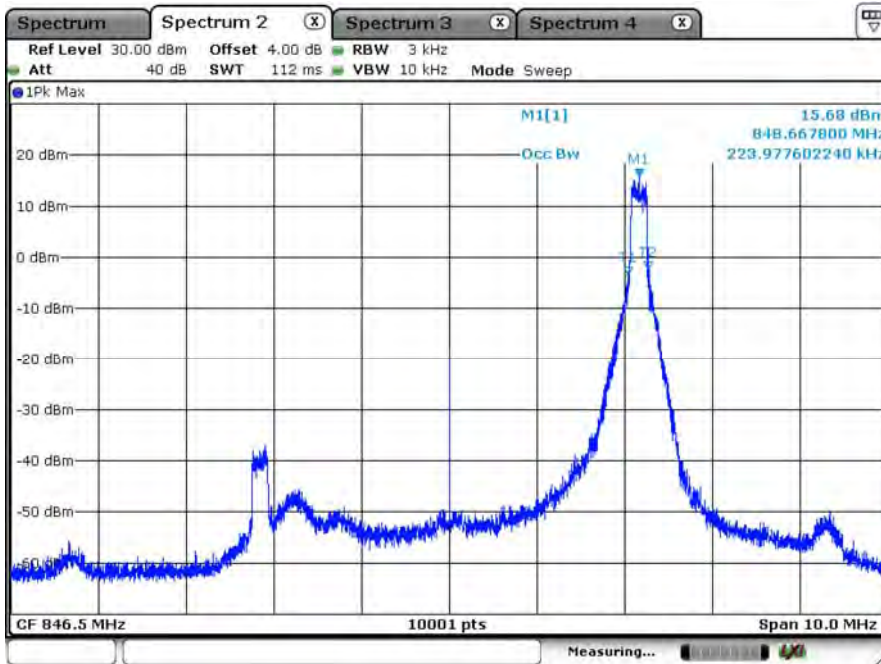
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### B5\_CH20625\_5M\_QPSK\_25RB0\_26dB BW

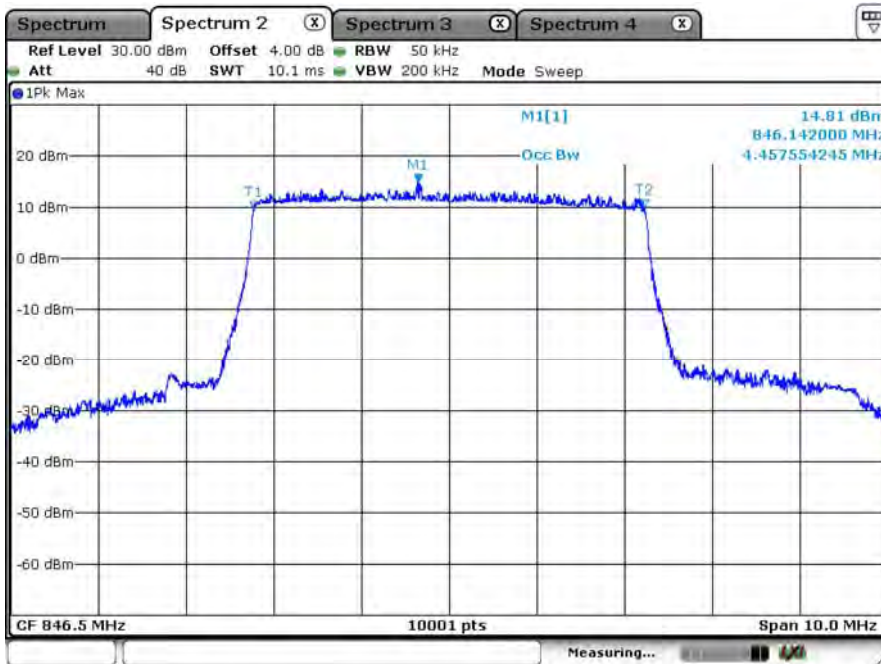


Date: 5.AUG.2019 16:21:11

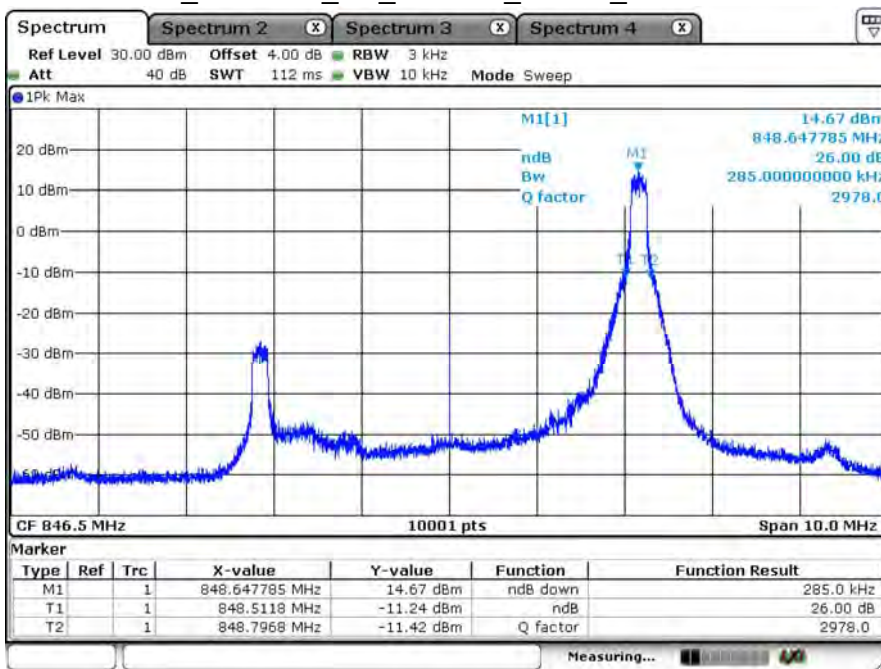
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### B5\_CH20625\_5M\_QPSK\_25RB0\_99% BW

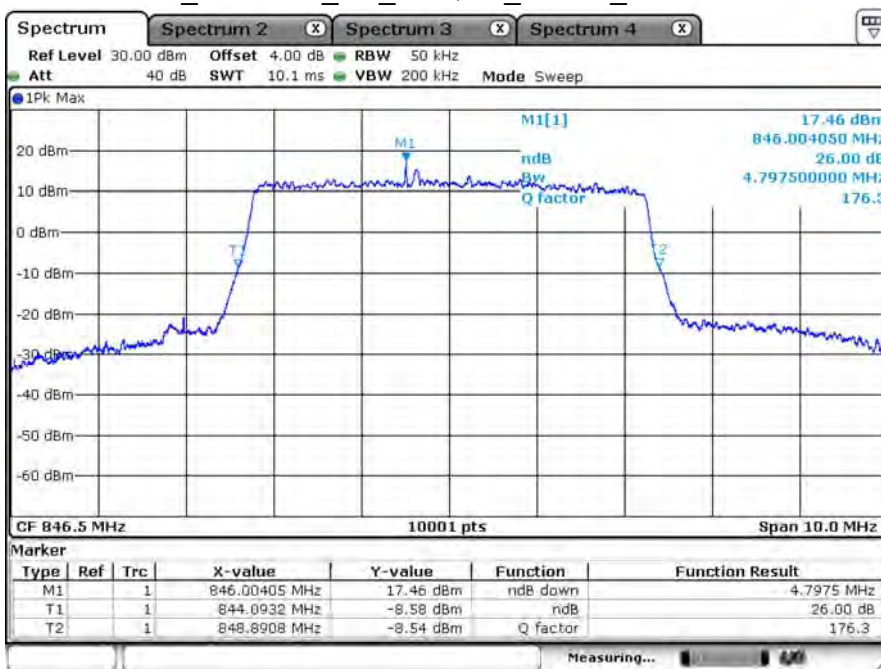


B5\_CH20625\_5M\_16-QAM\_1RB24\_26dB BW



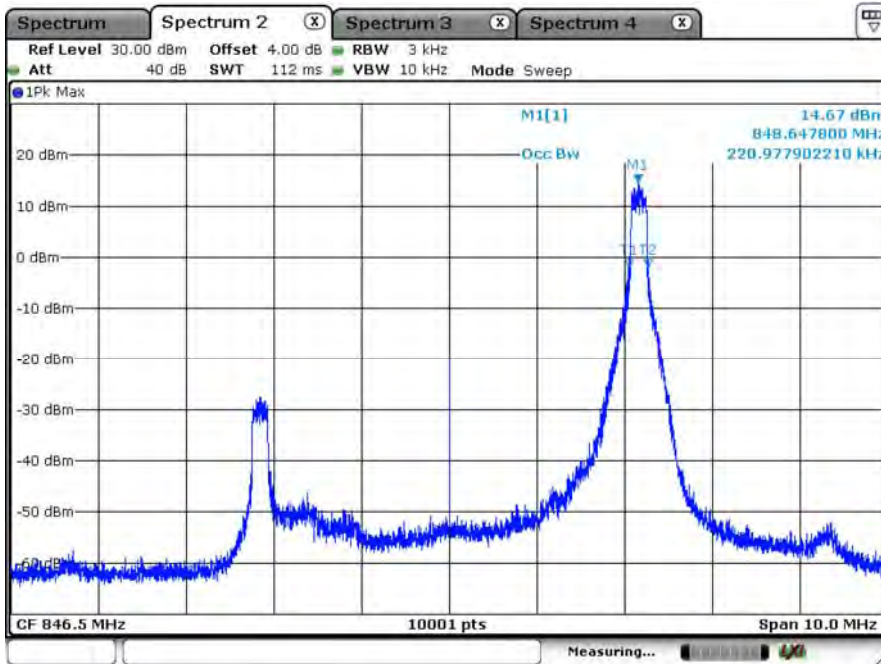
Date: 5.AUG.2019 16:09:19

B5\_CH20625\_5M\_16-QAM\_25RB0\_26dB BW



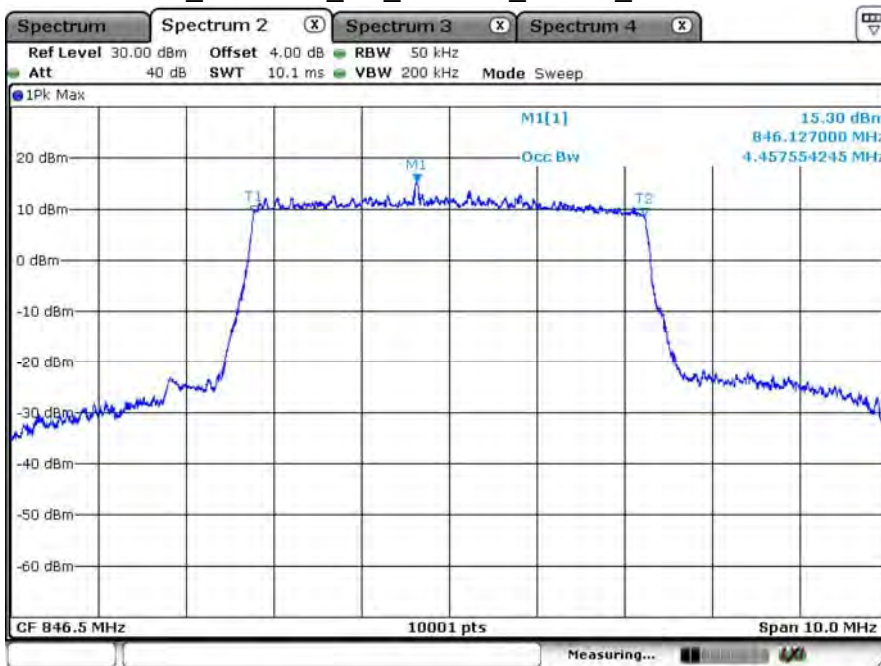
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B5\_CH20625\_5M\_16-QAM\_1RB24\_99% BW



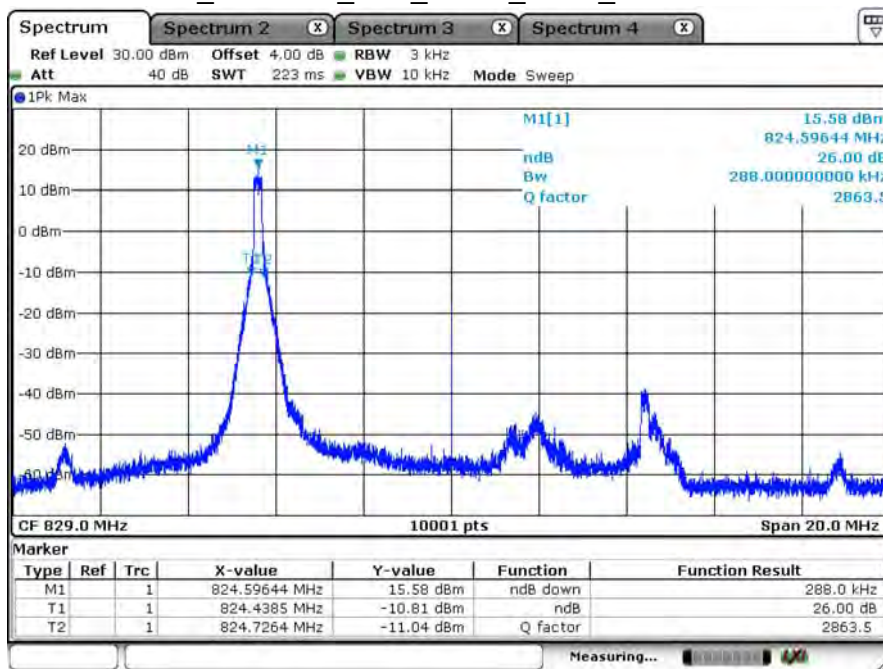
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B5\_CH20625\_5M\_16-QAM\_25RB0\_99% BW



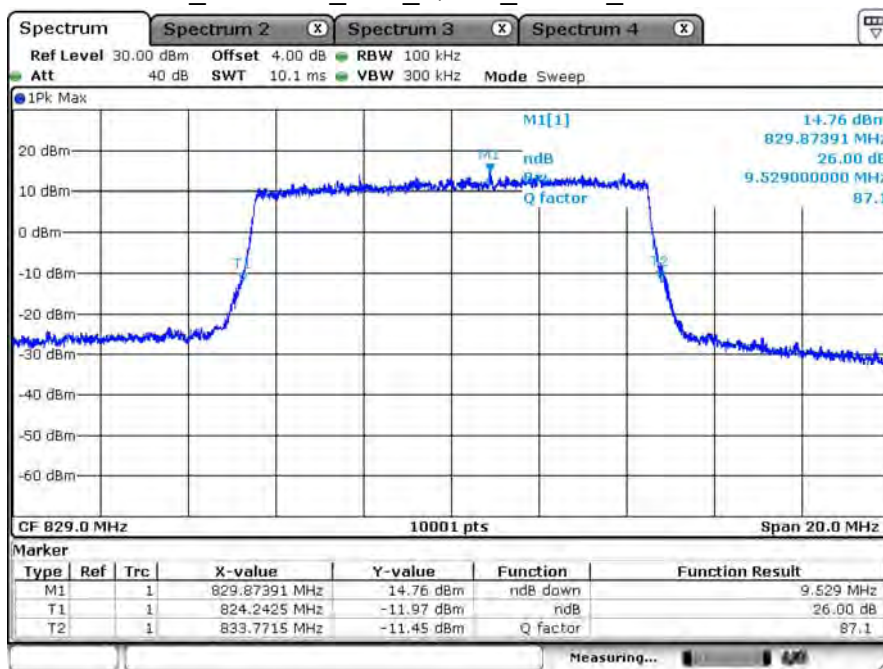
Date: 5.AUG.2019 16:29:09

### B5\_CH20450\_10M\_QPSK\_1RB0\_26dB BW



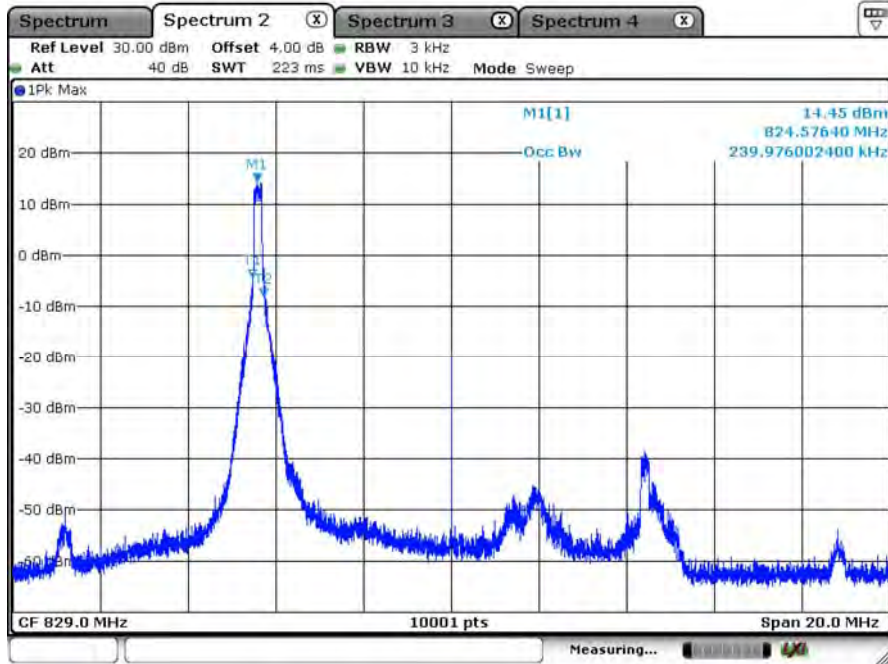
Date: 5.AUG.2019 17:09:28

### B5\_CH20450\_10M\_QPSK\_50RB0\_26dB BW



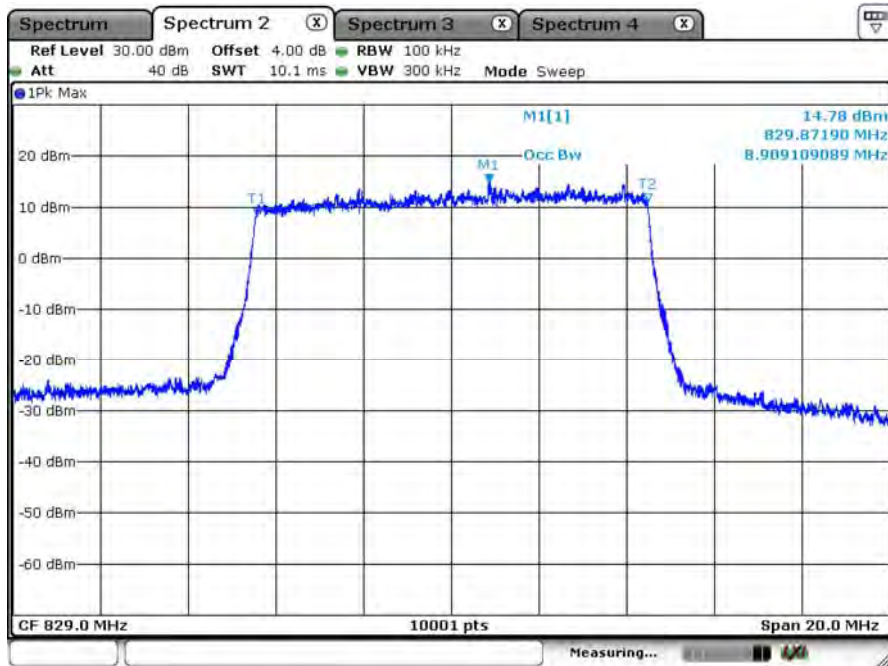
Date: 5.AUG.2019 17:42:38

### B5\_CH20450\_10M\_QPSK\_1RB0\_99% BW



Date: 5.AUG.2019 17:10:14

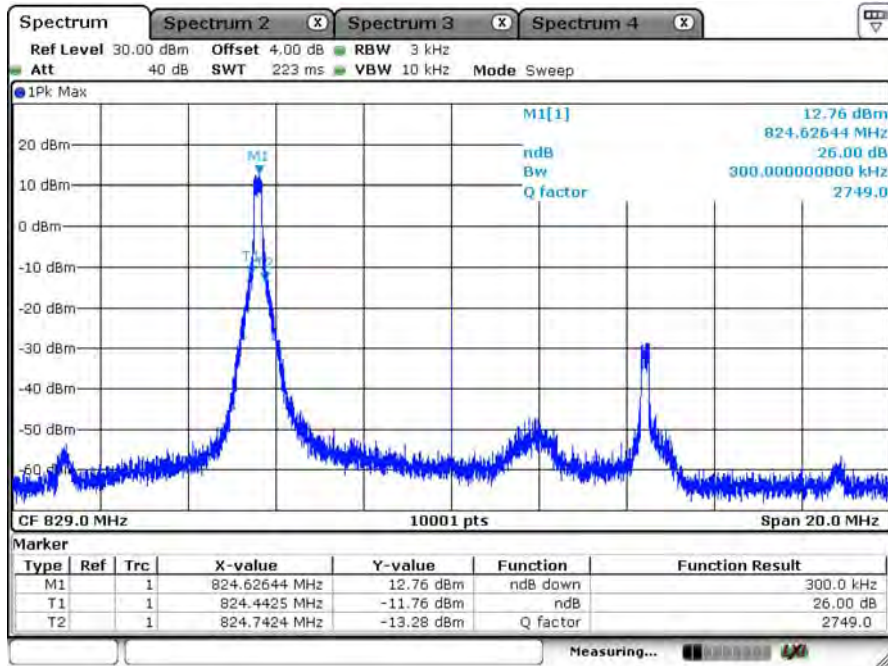
### B5\_CH20450\_10M\_QPSK\_50RB0\_99% BW



Date: 5.AUG.2019 17:43:09

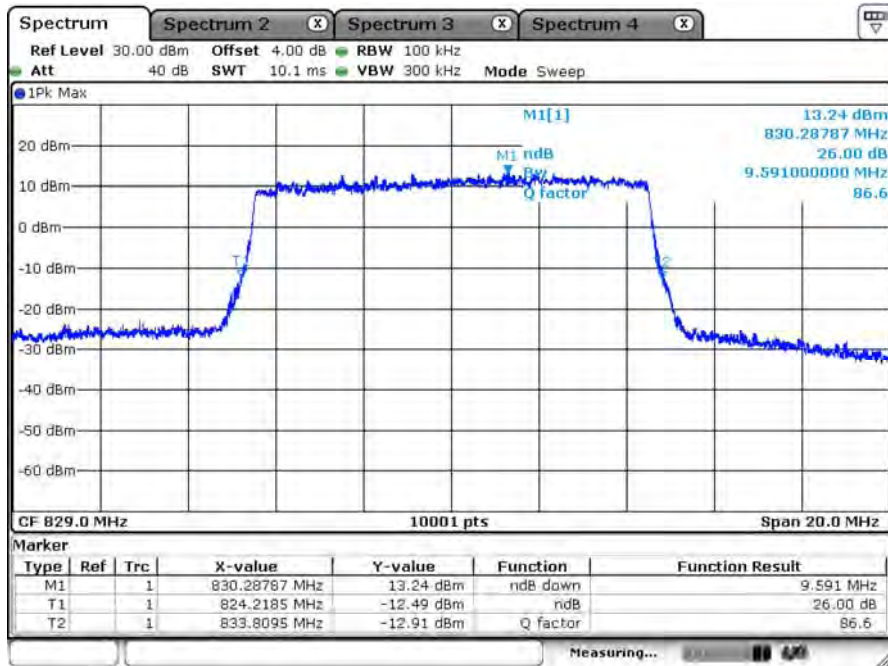


B5\_CH20450\_10M\_16-QAM\_1RB0\_26dB BW



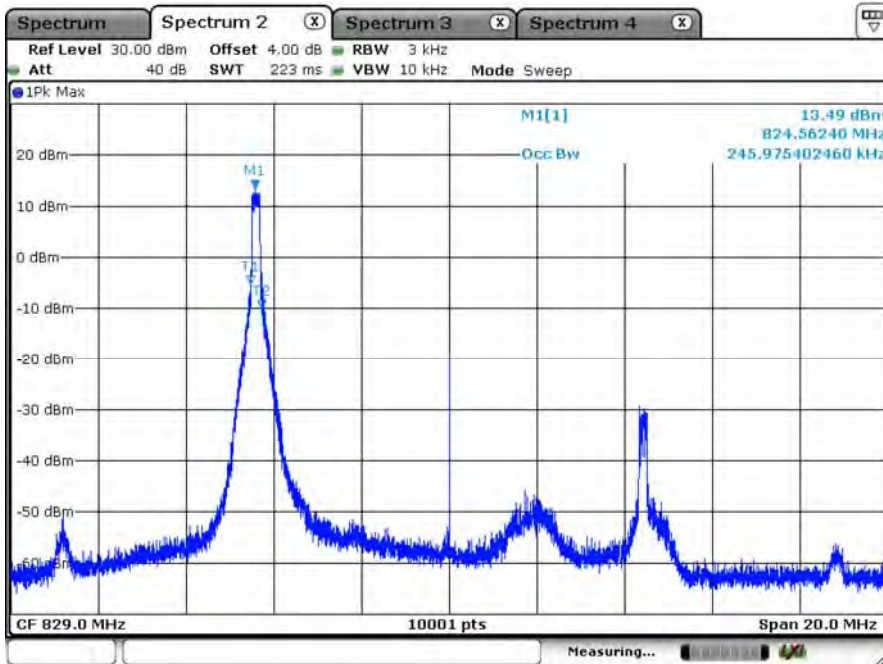
Date: 5.AUG.2019 17:13:30

B5\_CH20450\_10M\_16-QAM\_50RB0\_26dB BW



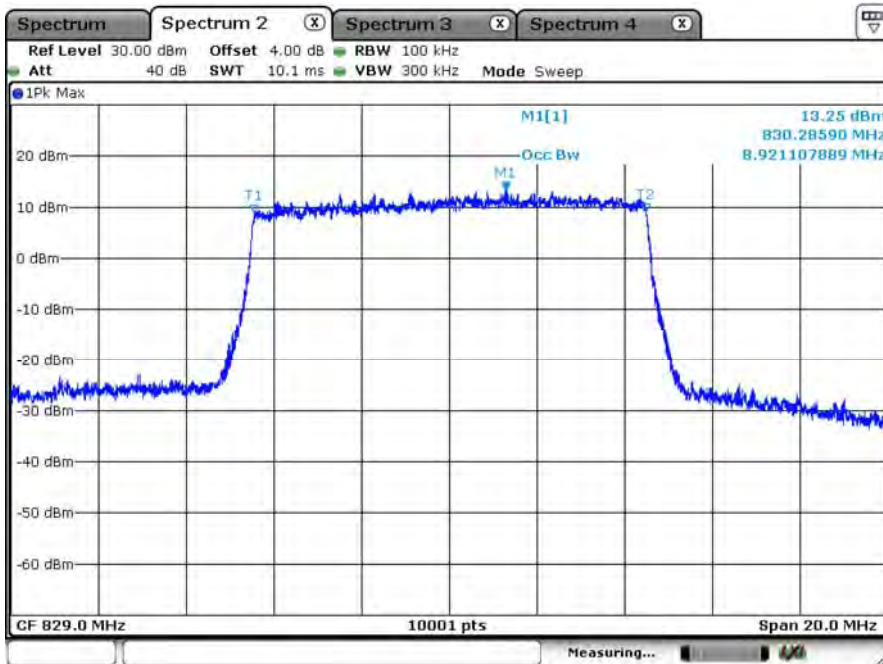
Date: 5.AUG.2019 17:41:49

### B5\_CH20450\_10M\_16-QAM\_1RB0\_99% BW



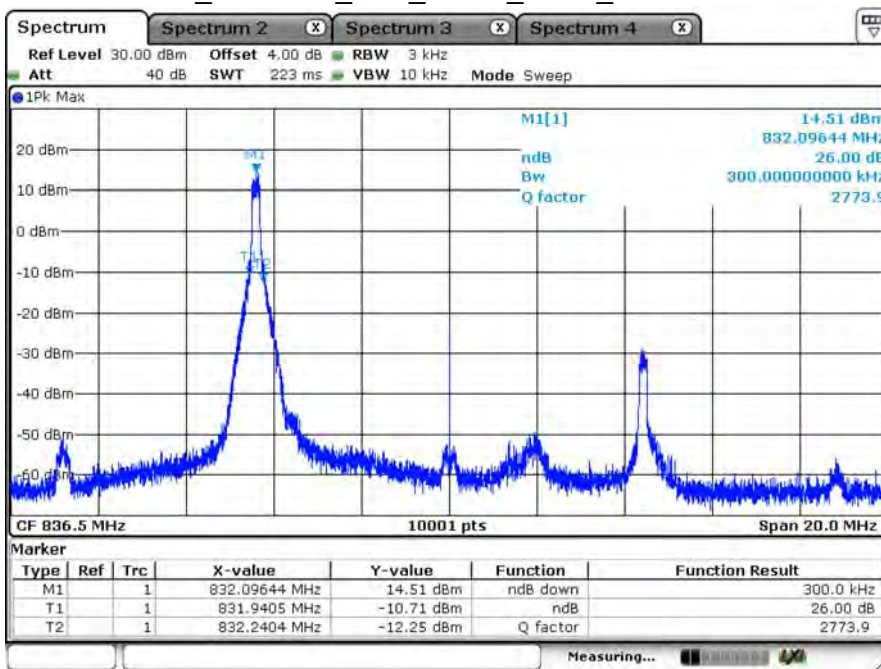
Date: 5.AUG.2019 17:12:59

### B5\_CH20450\_10M\_16-QAM\_50RB0\_99% BW



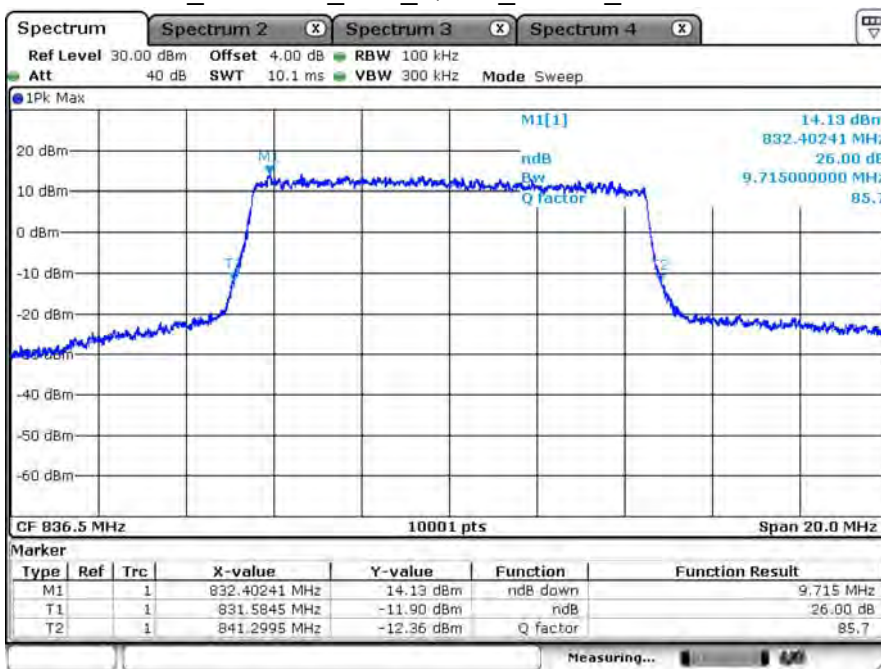
Date: 5.AUG.2019 17:41:05

### B5\_CH20525\_10M\_QPSK\_1RB0\_26dB BW



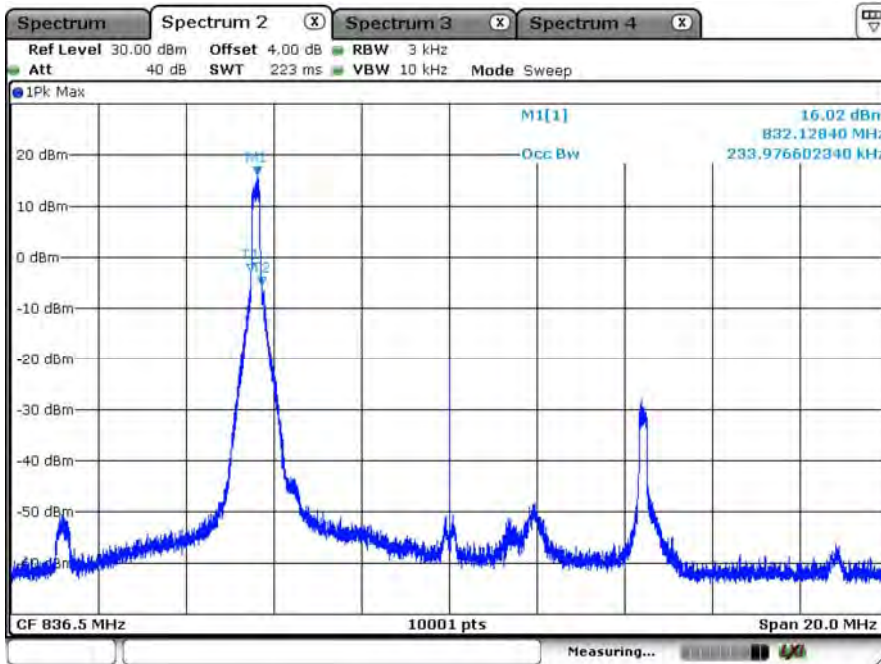
Date: 5.AUG.2019 17:19:34

### B5\_CH20525\_10M\_QPSK\_50RB0\_26dB BW

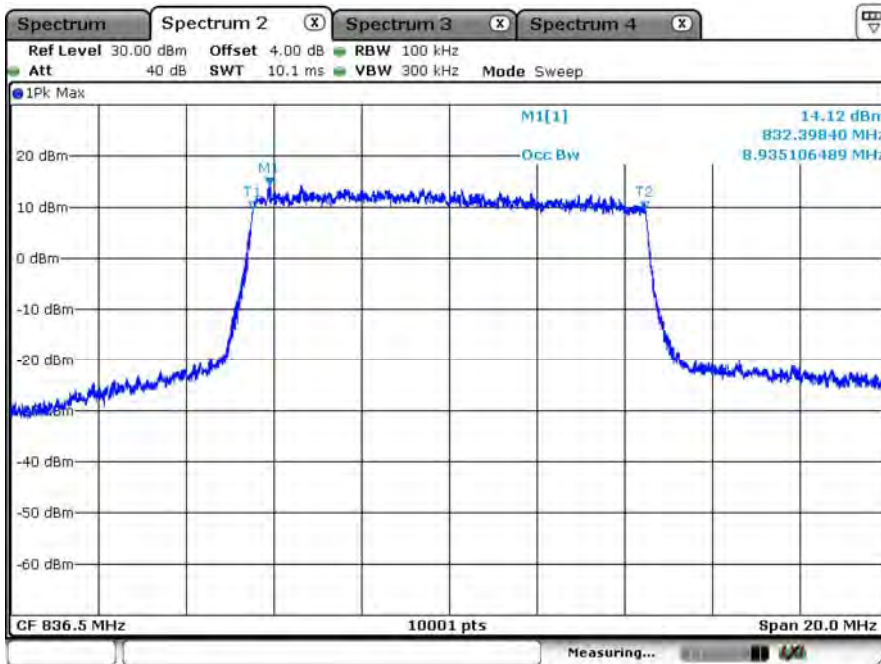


Date: 5.AUG.2019 17:38:08

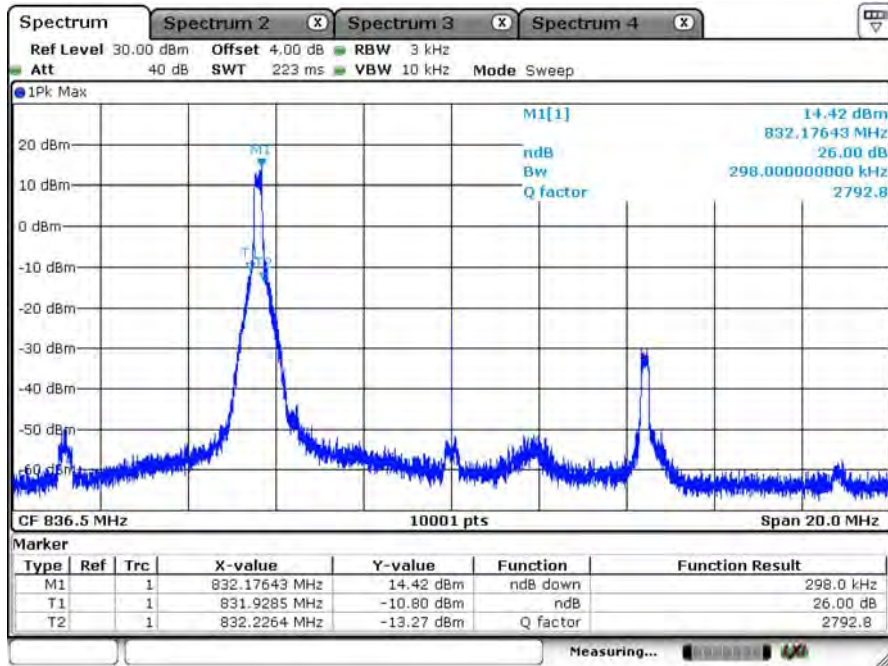
### B5\_CH20525\_10M\_QPSK\_1RB0\_99% BW



### B5\_CH20525\_10M\_QPSK\_50RB0\_99% BW

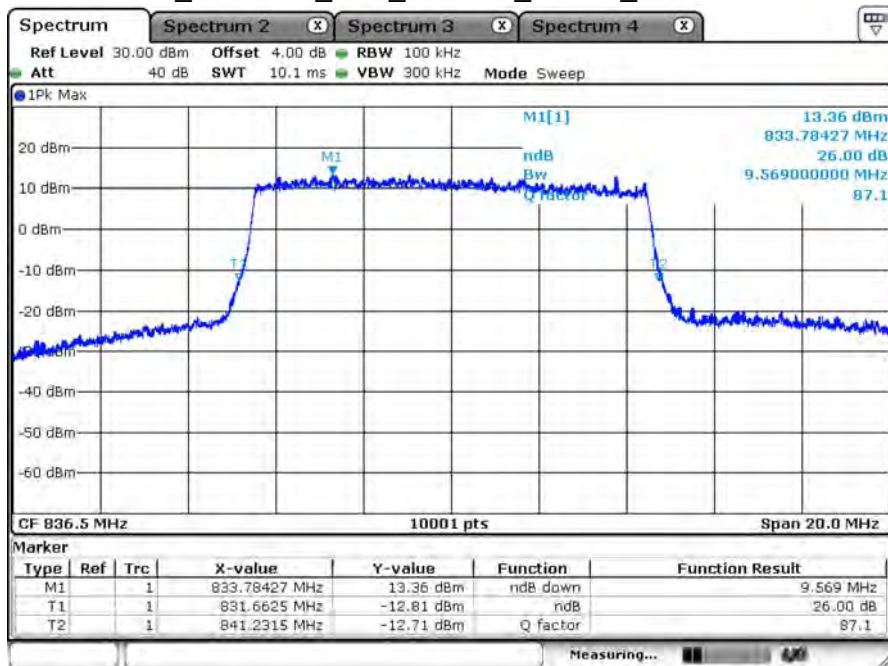


B5\_CH20525\_10M\_16-QAM\_1RB0\_26dB BW



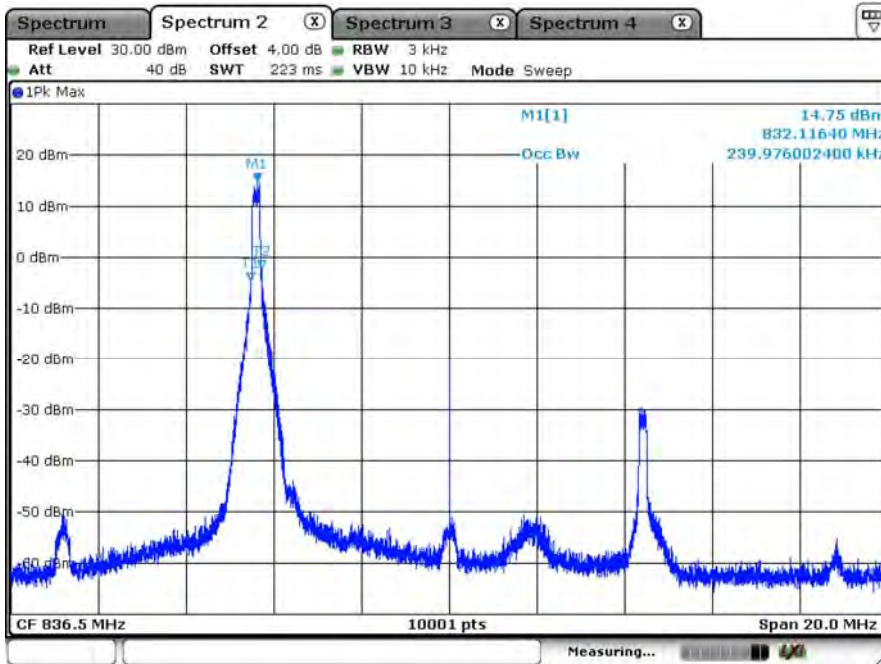
Date: 5.AUG.2019 17:22:42

B5\_CH20525\_10M\_16-QAM\_50RB0\_26dB BW



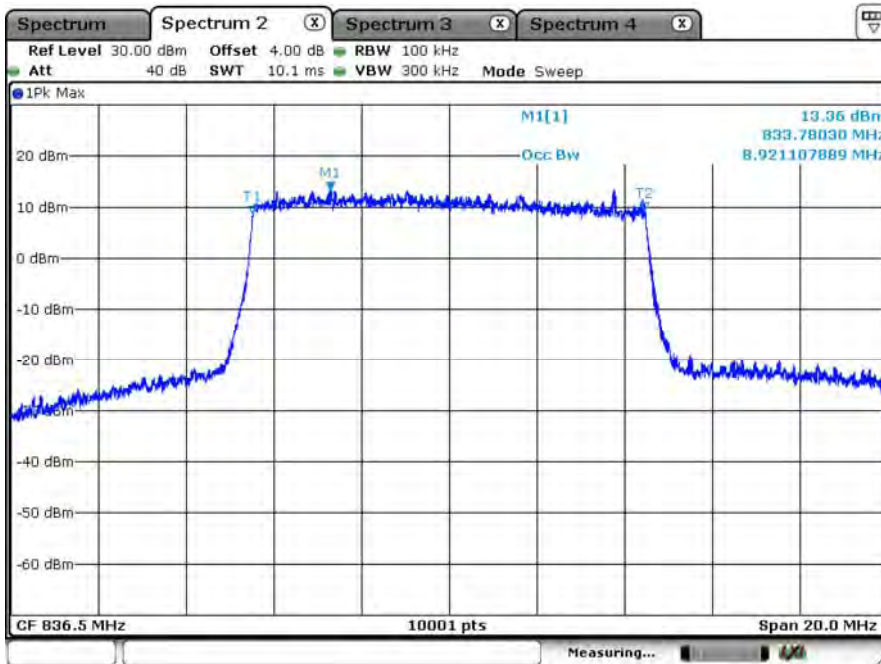
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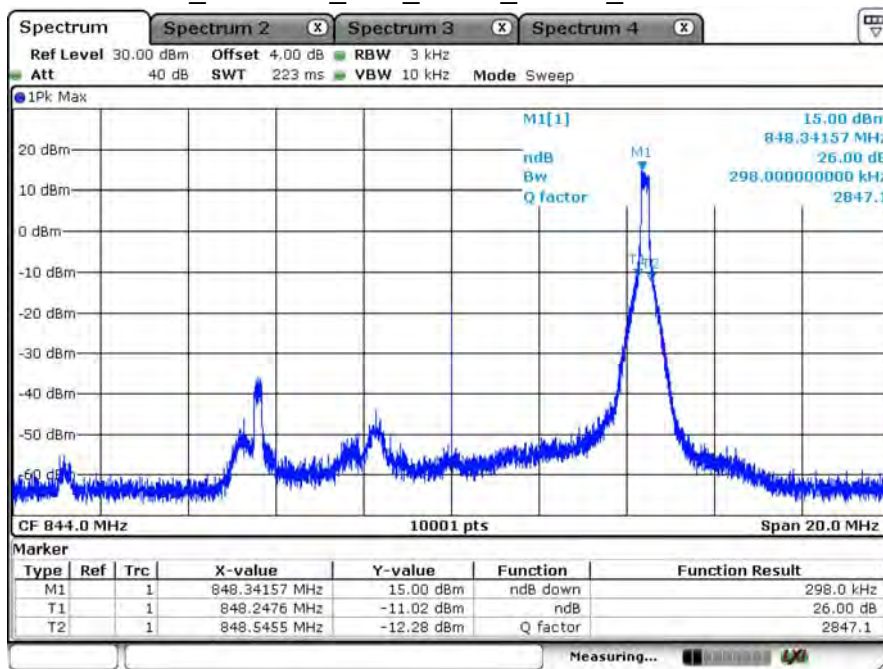
Date: 5.AUG.2019 17:22:23

### B5\_CH20525\_10M\_16-QAM\_50RB0\_99% BW



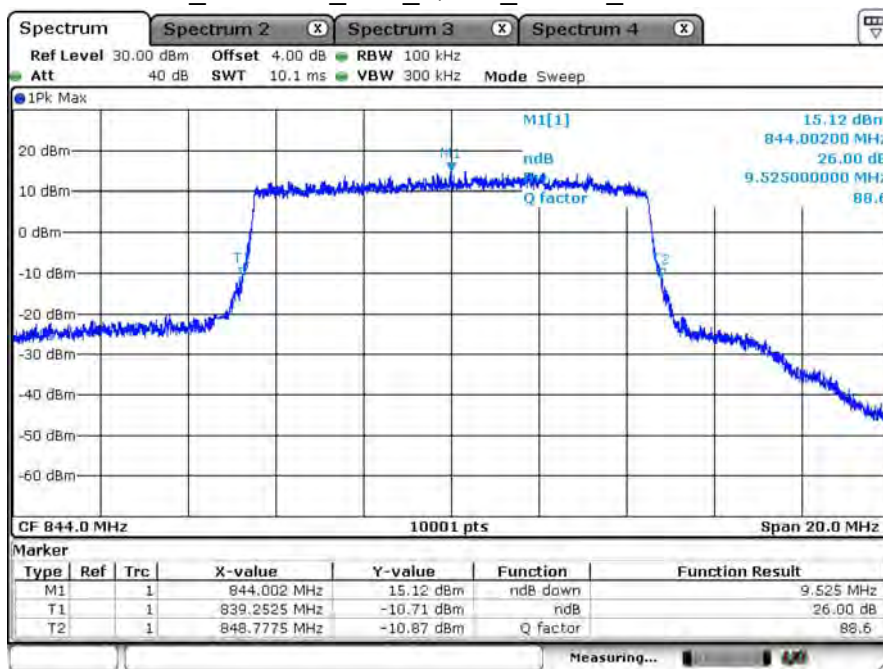
Date: 5.AUG.2019 17:39:44

### B5\_CH20600\_10M\_QPSK\_1RB49\_26dB BW



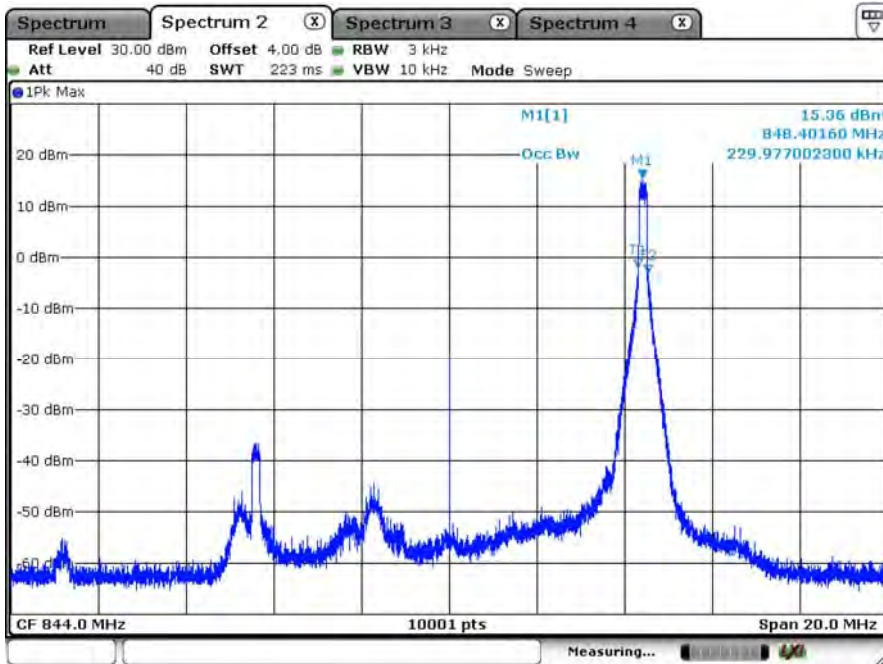
Date: 5.AUG.2019 17:26:20

### B5\_CH20600\_10M\_QPSK\_50RB0\_26dB BW

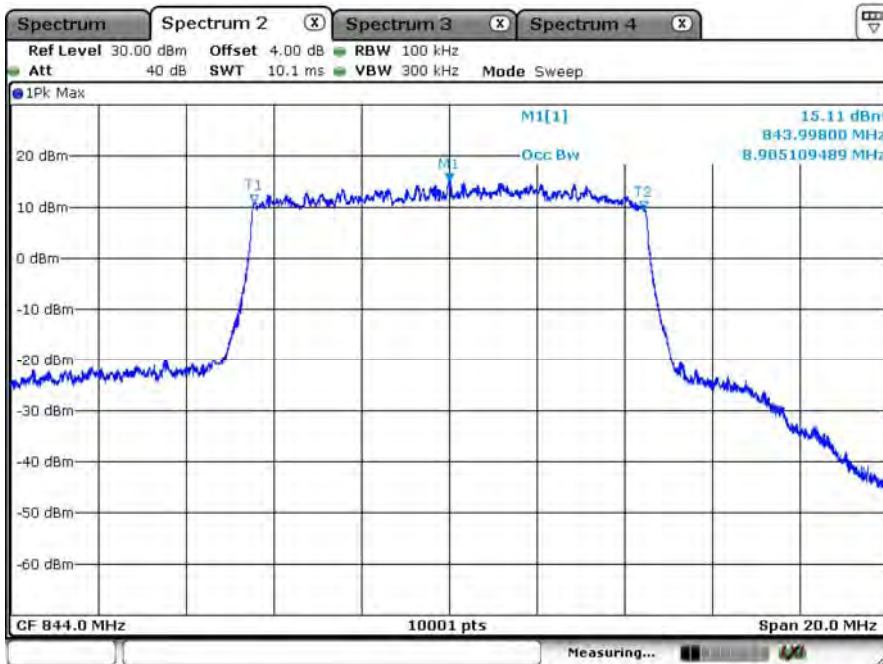


Date: 5.AUG.2019 17:36:20

### B5\_CH20600\_10M\_QPSK\_1RB49\_99% BW

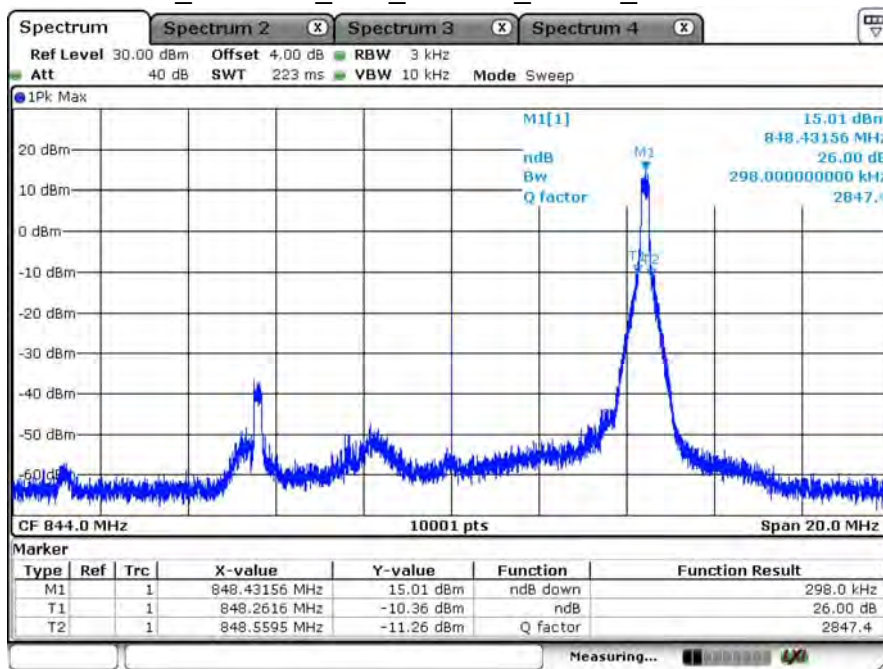


### B5\_CH20600\_10M\_QPSK\_50RB0\_99% BW



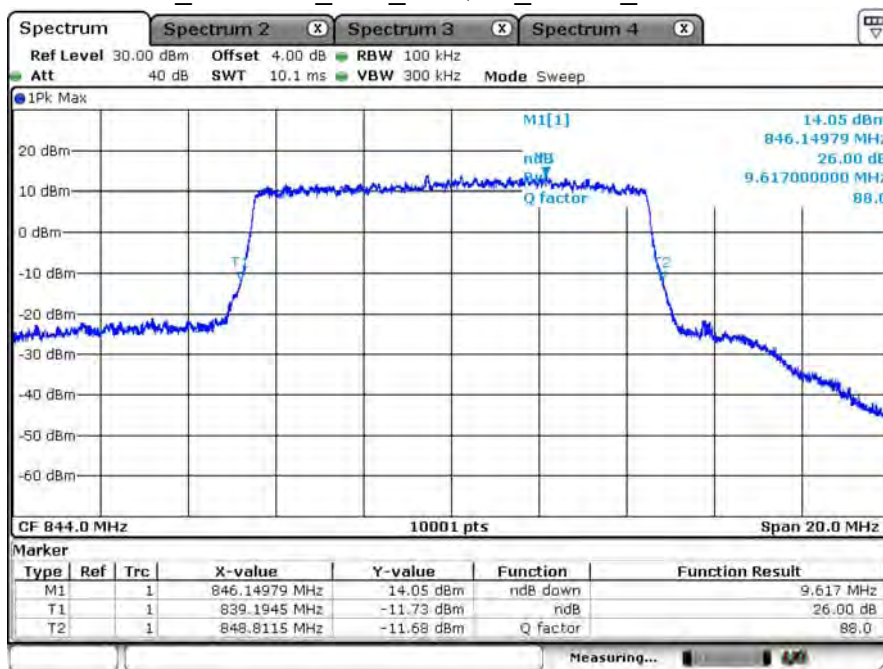


B5\_CH20600\_10M\_16-QAM\_1RB49\_26dB BW



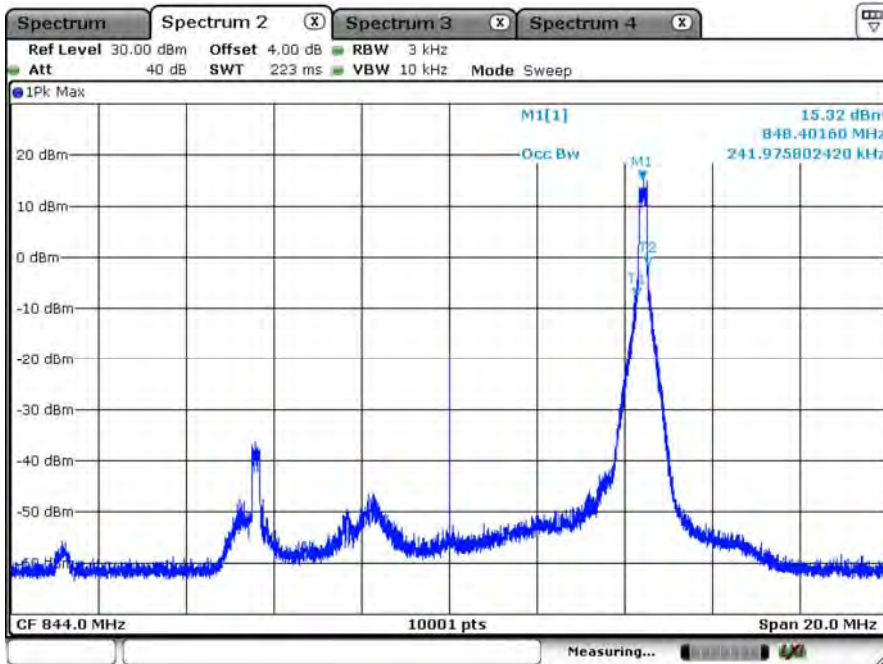
Date: 5.AUG.2019 17:26:52

B5\_CH20600\_10M\_16-QAM\_50RB0\_26dB BW



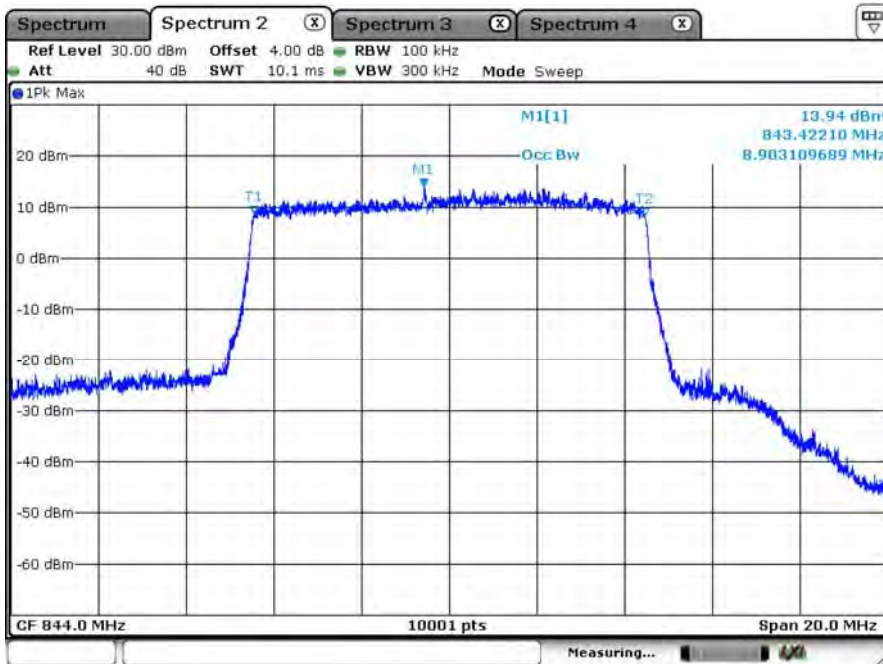
Date: 5.AUG.2019 17:32:00

### B5\_CH20600\_10M\_16-QAM\_1RB49\_99% BW



Date: 5.AUG.2019 17:28:56

### B5\_CH20600\_10M\_16-QAM\_50RB0\_99% BW



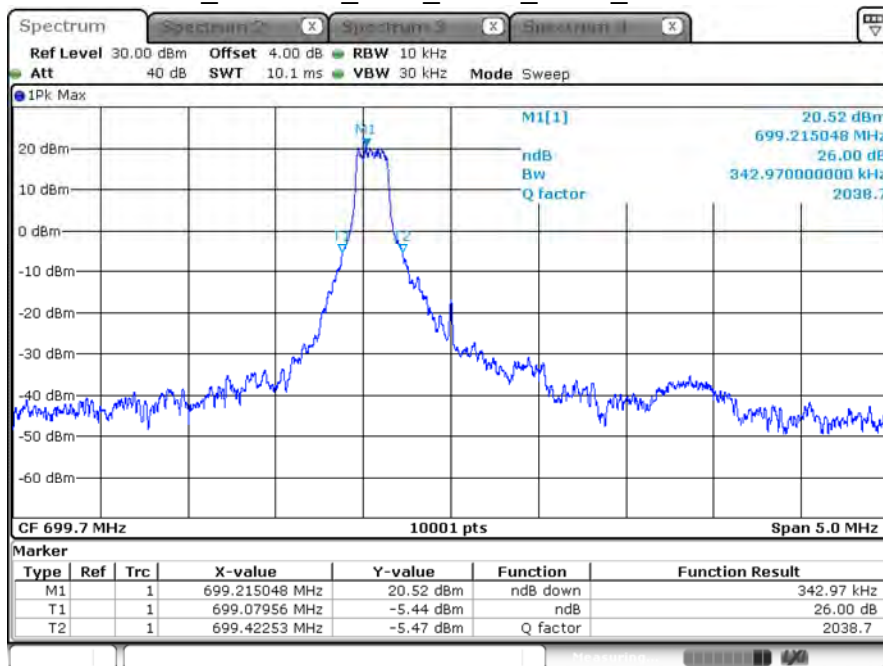
Date: 5.AUG.2019 17:32:45

|              |                     |           |        |
|--------------|---------------------|-----------|--------|
| Product      | Module              |           |        |
| Test Item    | Occupied Bandwidth  |           |        |
| Test Mode    | Mode 4: LTE Band 12 |           |        |
| Date of Test | 2019/08/13          | Test Site | SR10-H |

| LTE Band 12_1RB Low/high |            |                 |                     |        |             |
|--------------------------|------------|-----------------|---------------------|--------|-------------|
| Band width (MHz)         | Modulation | Frequency (MHz) | Measure Level (MHz) |        | Limit (MHz) |
|                          |            |                 | 26dB BW             | 99% BW |             |
| 1.4M                     | QPSK       | 699.7           | 0.342               | 0.214  | N/A         |
|                          |            | 707.5           | 0.328               | 0.215  | N/A         |
|                          |            | 715.3           | 0.335               | 0.219  | N/A         |
|                          | 16-QAM     | 699.7           | 0.356               | 0.219  | N/A         |
|                          |            | 707.5           | 0.323               | 0.212  | N/A         |
|                          |            | 715.3           | 0.334               | 0.216  | N/A         |
| 3M                       | QPSK       | 700.5           | 0.331               | 0.212  | N/A         |
|                          |            | 707.5           | 0.334               | 0.218  | N/A         |
|                          |            | 714.5           | 0.342               | 0.216  | N/A         |
|                          | 16-QAM     | 700.5           | 0.308               | 0.213  | N/A         |
|                          |            | 707.5           | 0.314               | 0.213  | N/A         |
|                          |            | 714.5           | 0.360               | 0.228  | N/A         |
| 5M                       | QPSK       | 710.5           | 0.338               | 0.222  | N/A         |
|                          |            | 707.5           | 0.351               | 0.229  | N/A         |
|                          |            | 713.5           | 0.399               | 0.239  | N/A         |
|                          | 16-QAM     | 710.5           | 0.393               | 0.237  | N/A         |
|                          |            | 707.5           | 0.373               | 0.233  | N/A         |
|                          |            | 713.5           | 0.367               | 0.225  | N/A         |
| 10M                      | QPSK       | 704.0           | 0.382               | 0.237  | N/A         |
|                          |            | 707.5           | 0.372               | 0.239  | N/A         |
|                          |            | 711.0           | 0.366               | 0.241  | N/A         |
|                          | 16-QAM     | 704.0           | 0.370               | 0.239  | N/A         |
|                          |            | 707.5           | 0.382               | 0.237  | N/A         |
|                          |            | 711.0           | 0.382               | 0.247  | N/A         |

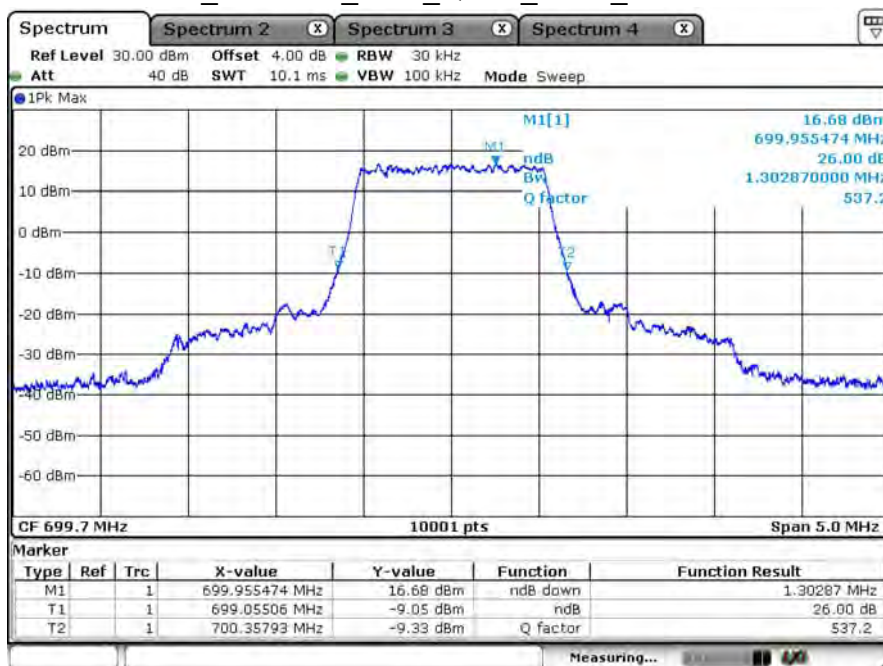
| LTE Band 12_Full RB |            |                 |                     |        |             |
|---------------------|------------|-----------------|---------------------|--------|-------------|
| Band width (MHz)    | Modulation | Frequency (MHz) | Measure Level (MHz) |        | Limit (MHz) |
|                     |            |                 | 26dB BW             | 99% BW |             |
| 1.4M                | QPSK       | 699.7           | 1.302               | 1.100  | N/A         |
|                     |            | 707.5           | 1.268               | 1.103  | N/A         |
|                     |            | 715.3           | 1.293               | 1.095  | N/A         |
|                     | 16-QAM     | 699.7           | 1.278               | 1.092  | N/A         |
|                     |            | 707.5           | 1.278               | 1.095  | N/A         |
|                     |            | 715.3           | 1.295               | 1.100  | N/A         |
| 3M                  | QPSK       | 700.5           | 2.976               | 2.699  | N/A         |
|                     |            | 707.5           | 2.964               | 2.700  | N/A         |
|                     |            | 714.5           | 2.956               | 2.696  | N/A         |
|                     | 16-QAM     | 700.5           | 2.970               | 2.694  | N/A         |
|                     |            | 707.5           | 2.961               | 2.703  | N/A         |
|                     |            | 714.5           | 2.969               | 2.692  | N/A         |
| 5M                  | QPSK       | 710.5           | 4.873               | 4.477  | N/A         |
|                     |            | 707.5           | 4.918               | 4.481  | N/A         |
|                     |            | 713.5           | 4.874               | 4.458  | N/A         |
|                     | 16-QAM     | 710.5           | 4.878               | 4.474  | N/A         |
|                     |            | 707.5           | 4.844               | 4.469  | N/A         |
|                     |            | 713.5           | 4.870               | 4.469  | N/A         |
| 10M                 | QPSK       | 704.0           | 9.419               | 8.857  | N/A         |
|                     |            | 707.5           | 9.669               | 8.931  | N/A         |
|                     |            | 711.0           | 9.603               | 8.949  | N/A         |
|                     | 16-QAM     | 704.0           | 9.463               | 8.867  | N/A         |
|                     |            | 707.5           | 9.541               | 8.919  | N/A         |
|                     |            | 711.0           | 9.663               | 8.957  | N/A         |

### B12\_CH23017\_1.4M\_QPSK\_1RB0\_26dB BW



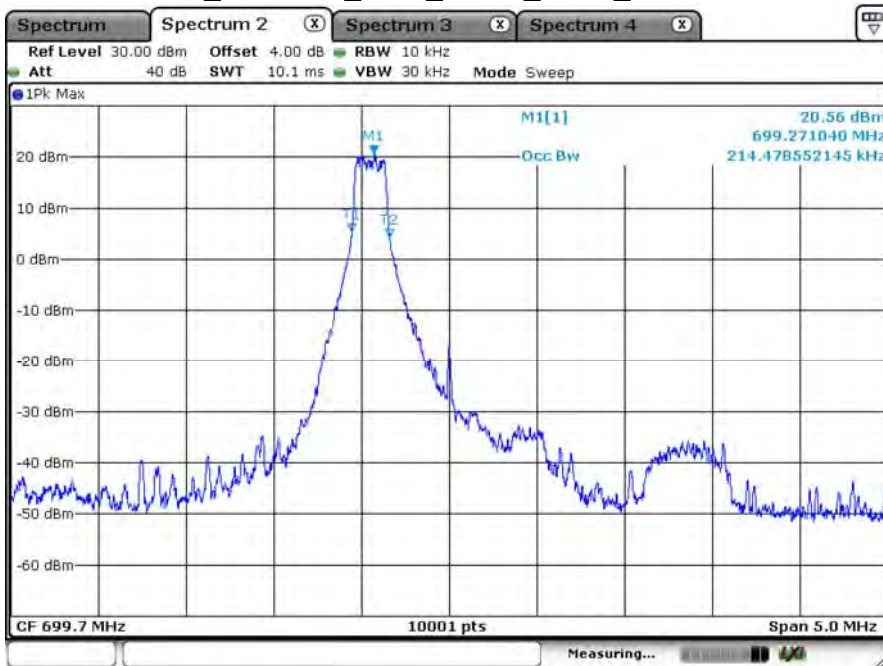
Date: 13.AUG.2019 15:00:12

### B12\_CH23017\_1.4M\_QPSK\_6RB0\_26dB BW

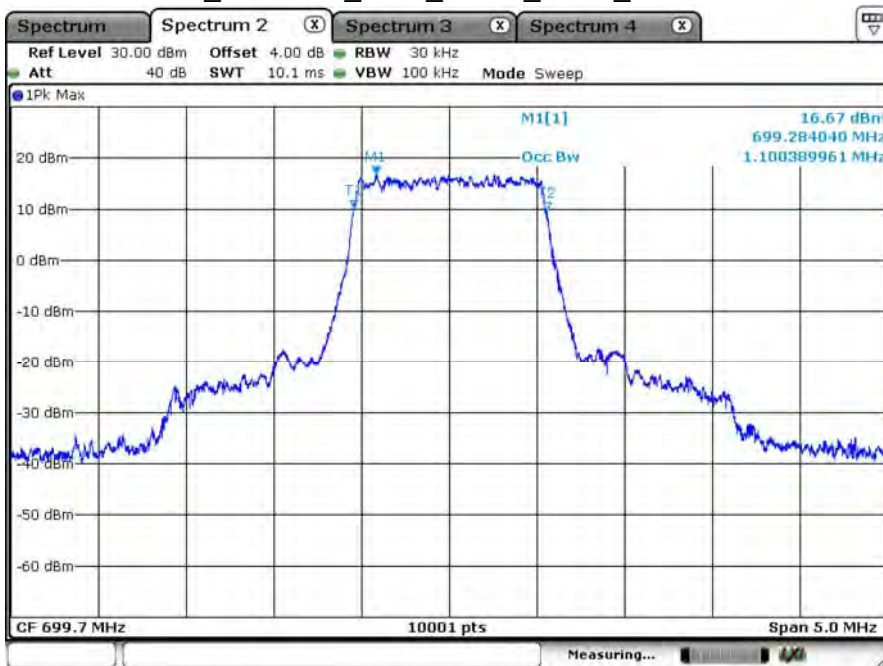


Date: 13.AUG.2019 15:31:46

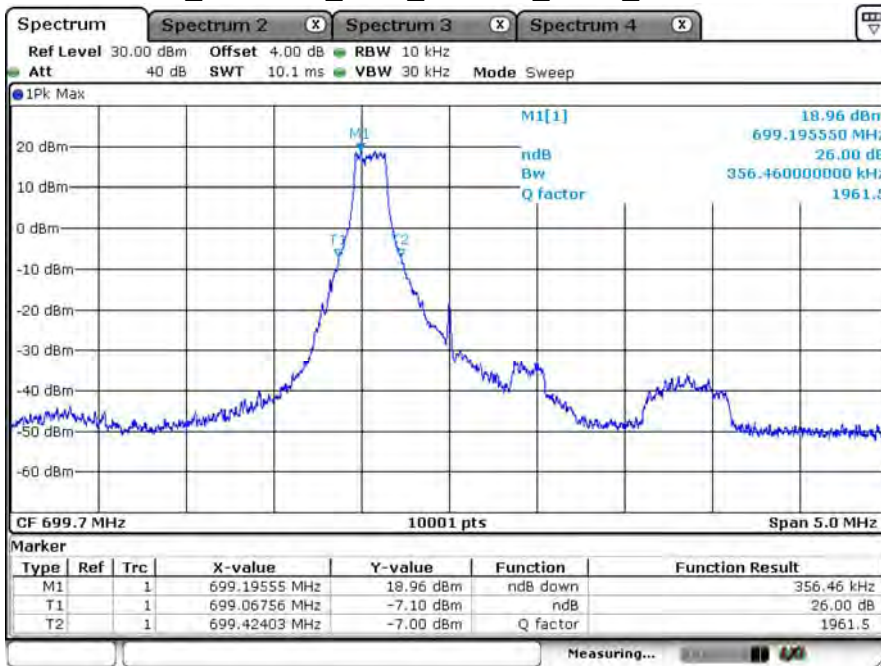
### B12\_CH23017\_1.4M\_QPSK\_1RB0\_99% BW



### B12\_CH23017\_1.4M\_QPSK\_6RB0\_99% BW

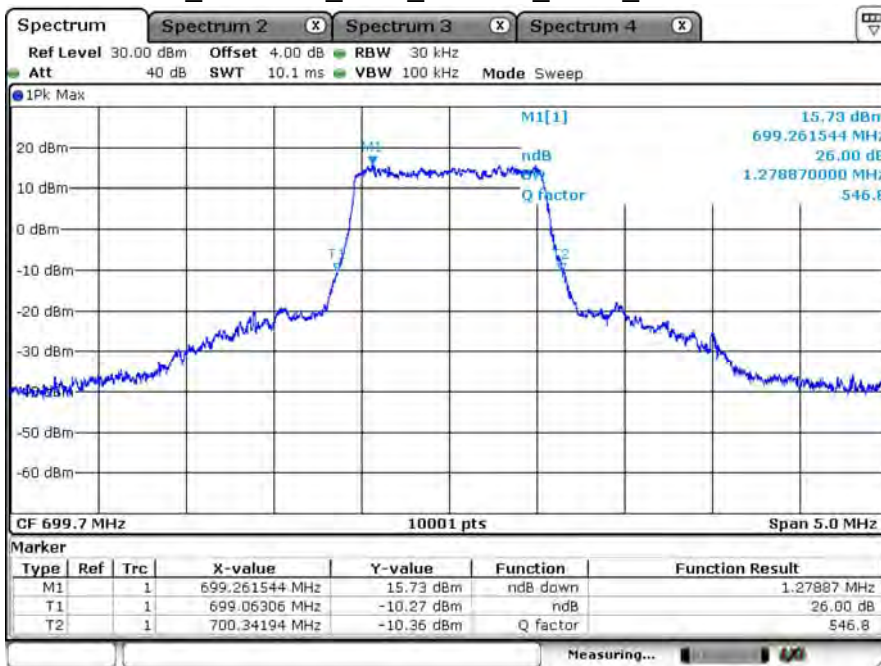


B12\_CH23017\_1.4M\_16-QAM\_1RB0\_26dB BW



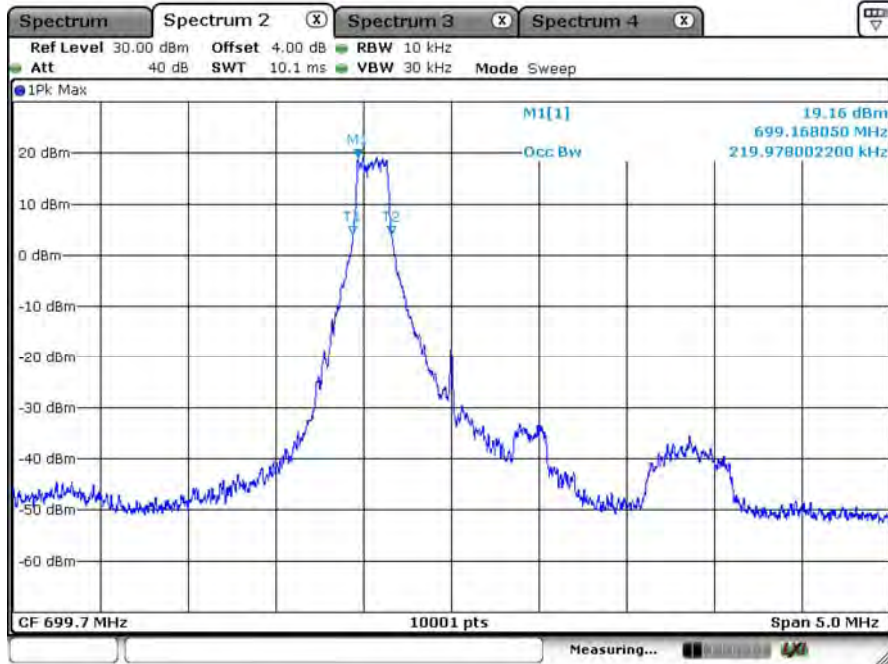
Date: 13.AUG.2019 15:18:47

B12\_CH23017\_1.4M\_16-QAM\_6RB0\_26dB BW



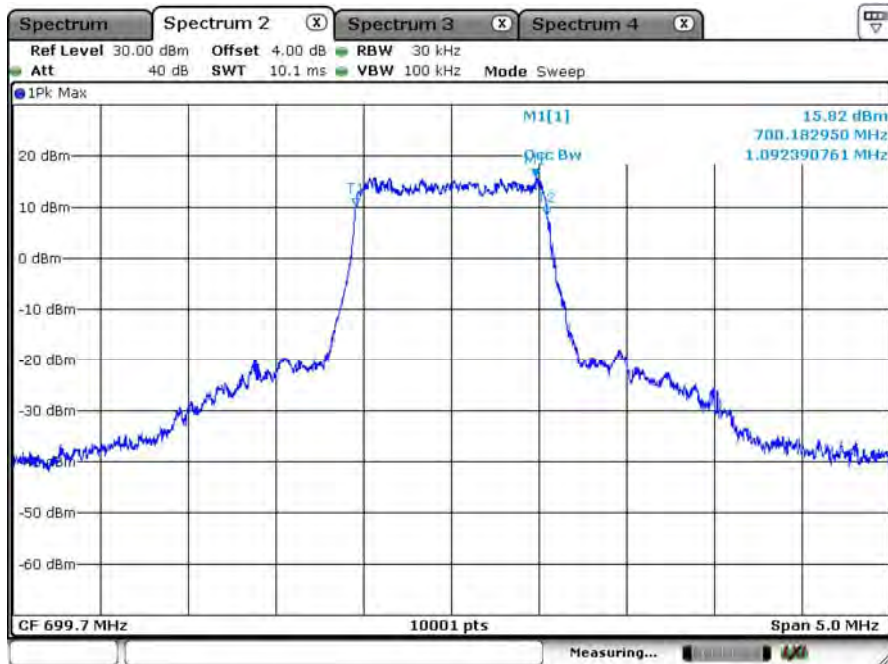
Date: 13.AUG.2019 15:14:16

### B12\_CH23017\_1.4M\_16-QAM\_1RB0\_99% BW



Date: 13.AUG.2019 15:17:45

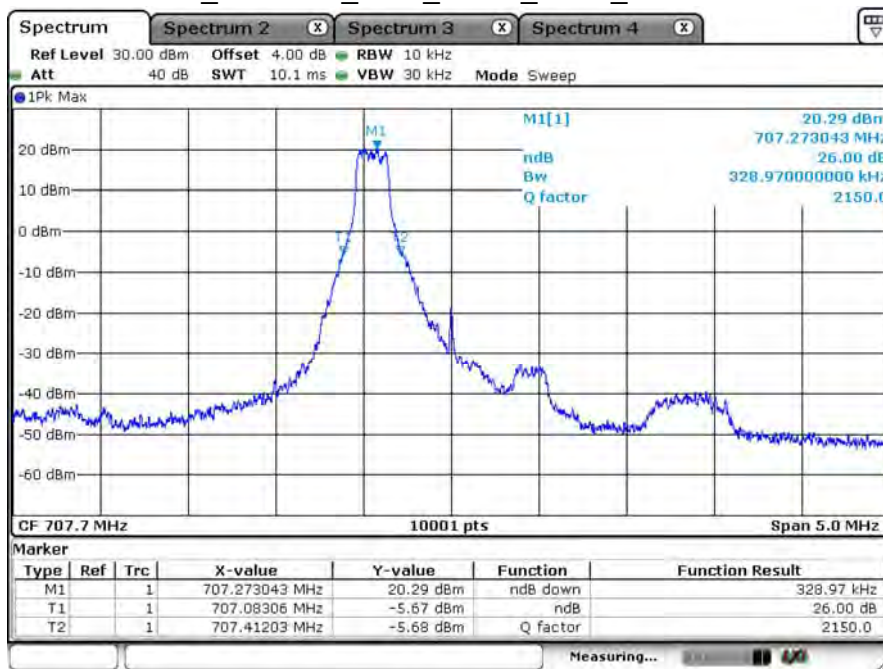
### B12\_CH23017\_1.4M\_16-QAM\_6RB0\_99% BW



Date: 13.AUG.2019 15:33:44

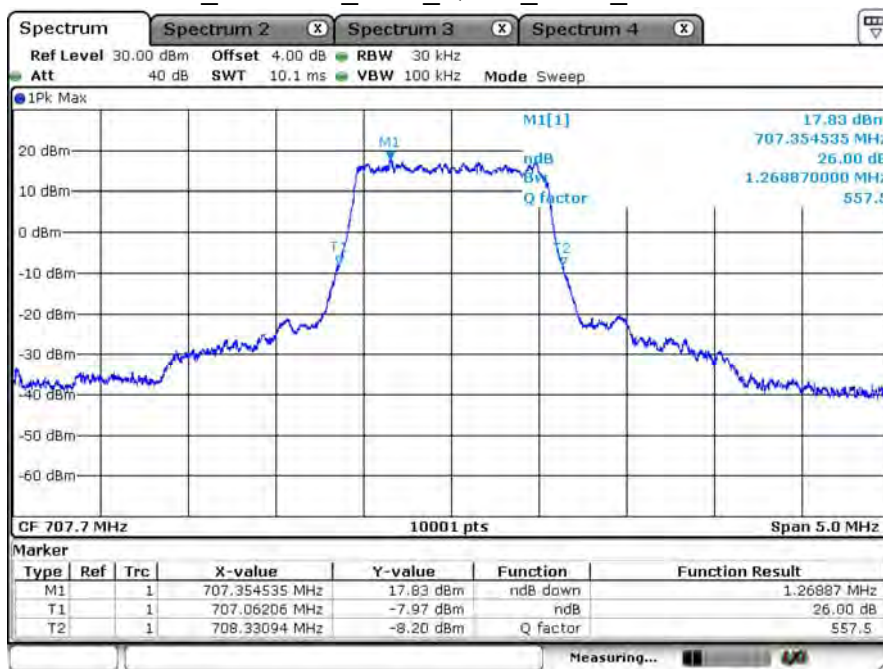


B12\_CH23097\_1.4M\_QPSK\_1RB0\_26dB BW



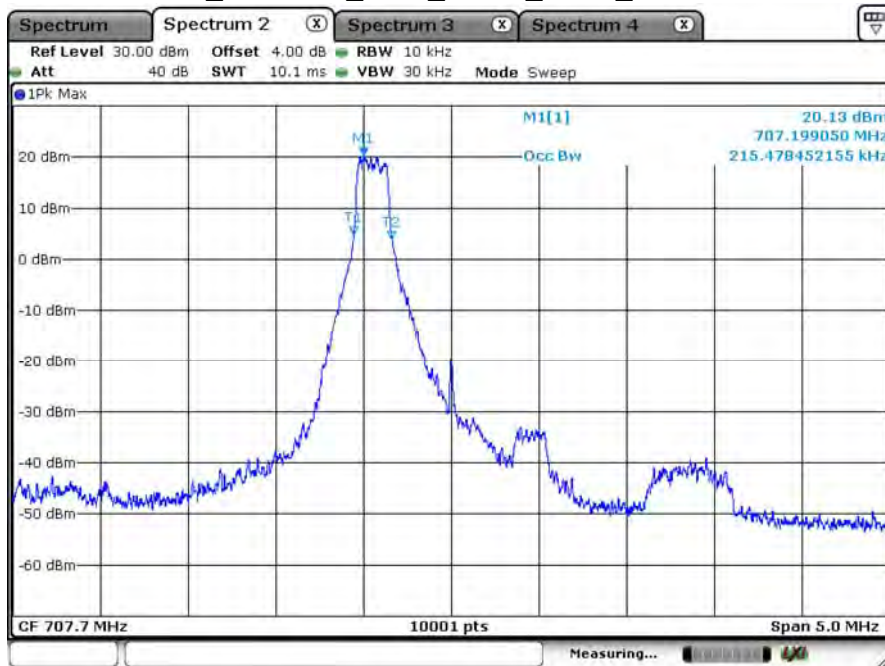
Date: 13.AUG.2019 15:24:05

B12\_CH23097\_1.4M\_QPSK\_6RB0\_26dB BW



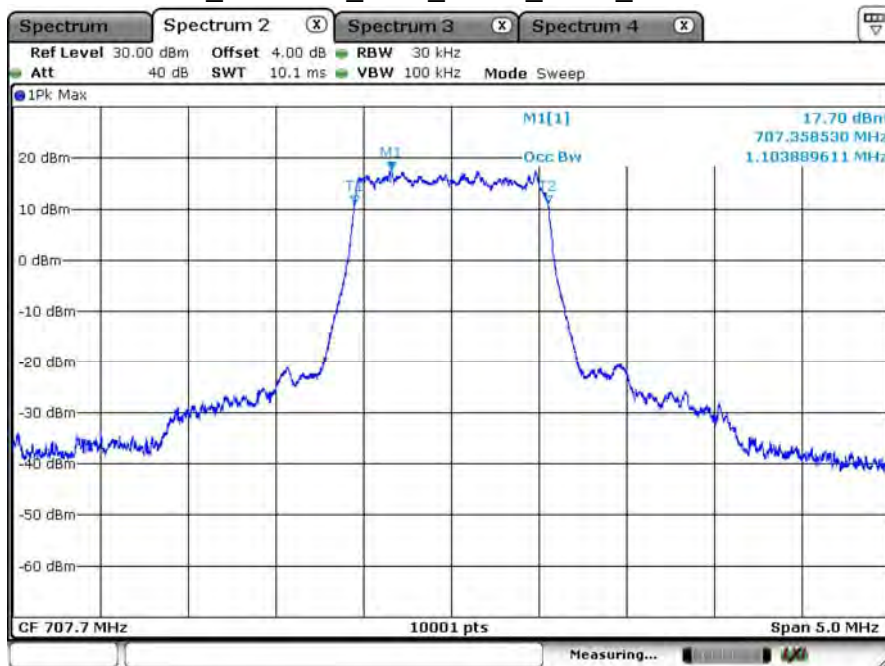
Date: 13.AUG.2019 15:35:30

### B12\_CH23097\_1.4M\_QPSK\_1RB0\_99% BW



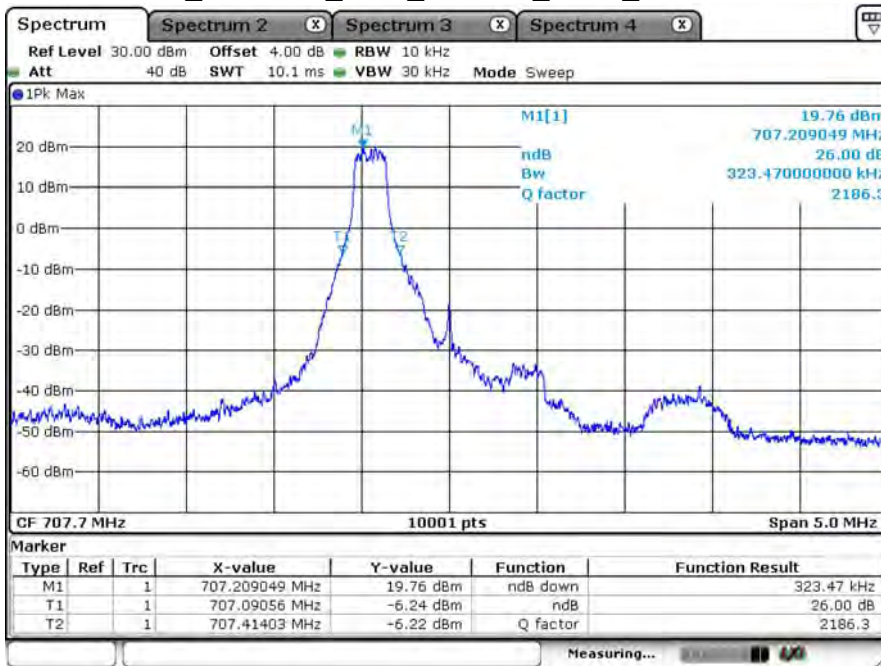
Date: 13.AUG.2019 15:23:21

### B12\_CH23097\_1.4M\_QPSK\_6RB0\_99% BW



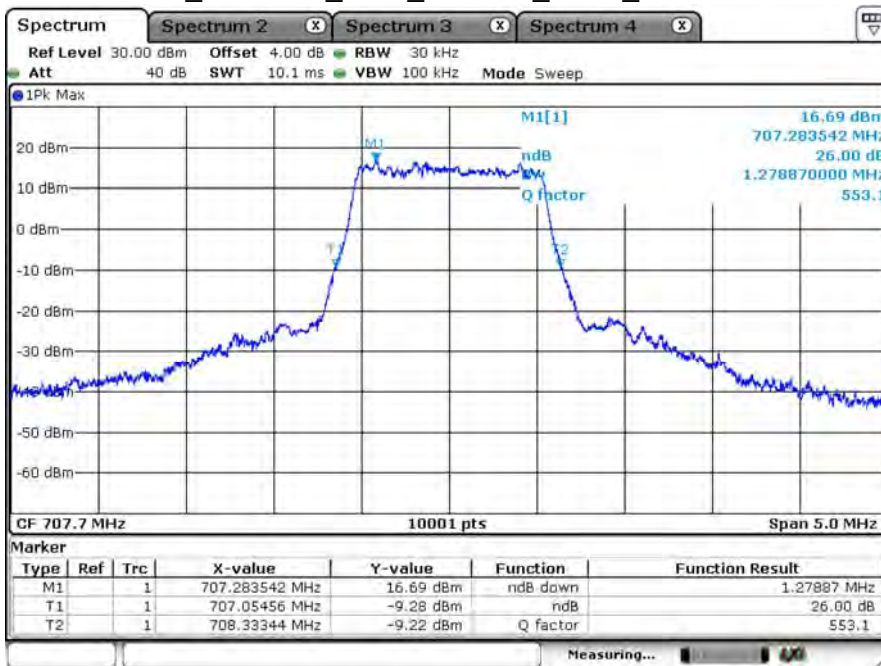
Date: 13.AUG.2019 15:36:31

B12\_CH23097\_1.4M\_16-QAM\_1RB0\_26dB BW



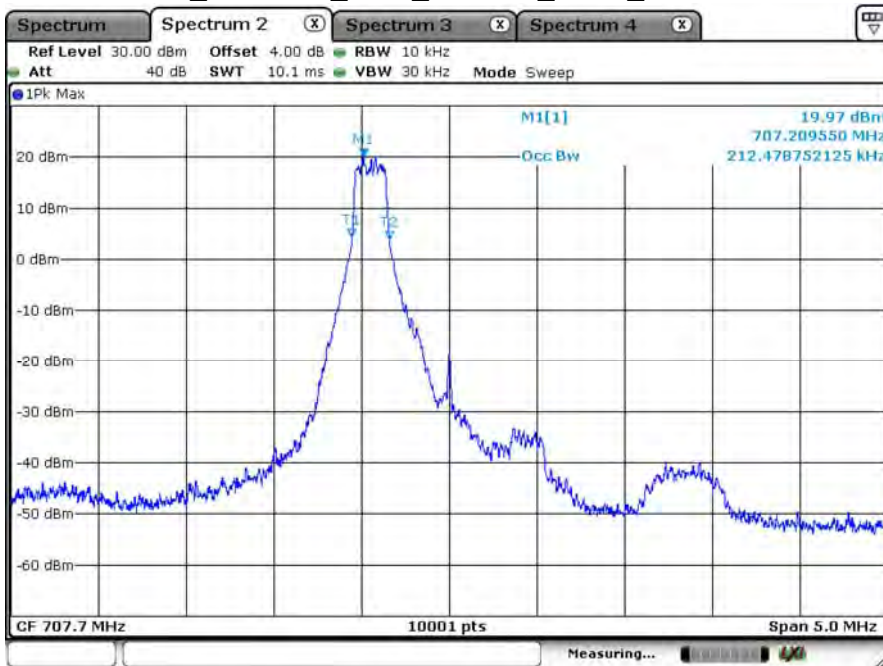
Date: 13.AUG.2019 15:19:44

B12\_CH23097\_1.4M\_16-QAM\_6RB0\_26dB BW



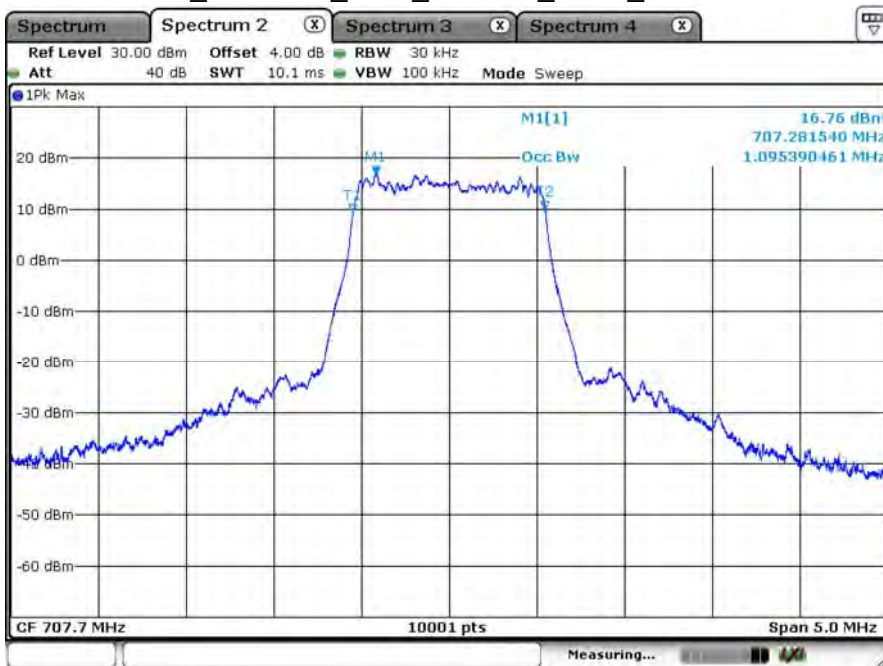
Date: 13.AUG.2019 15:18:52

### B12\_CH23097\_1.4M\_16-QAM\_1RB0\_99% BW



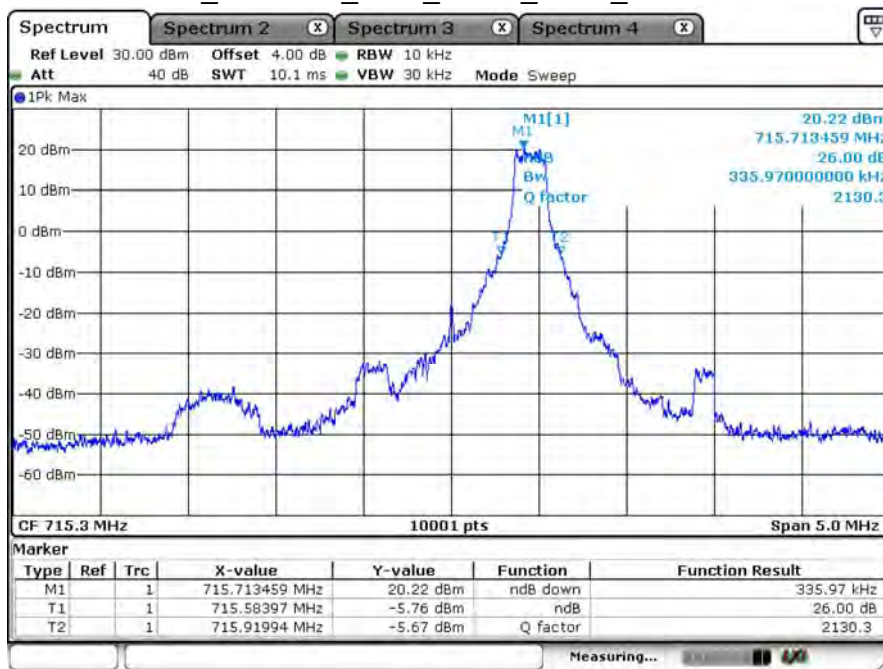
Date: 13.AUG.2019 15:20:24

### B12\_CH23097\_1.4M\_16-QAM\_6RB0\_99% BW



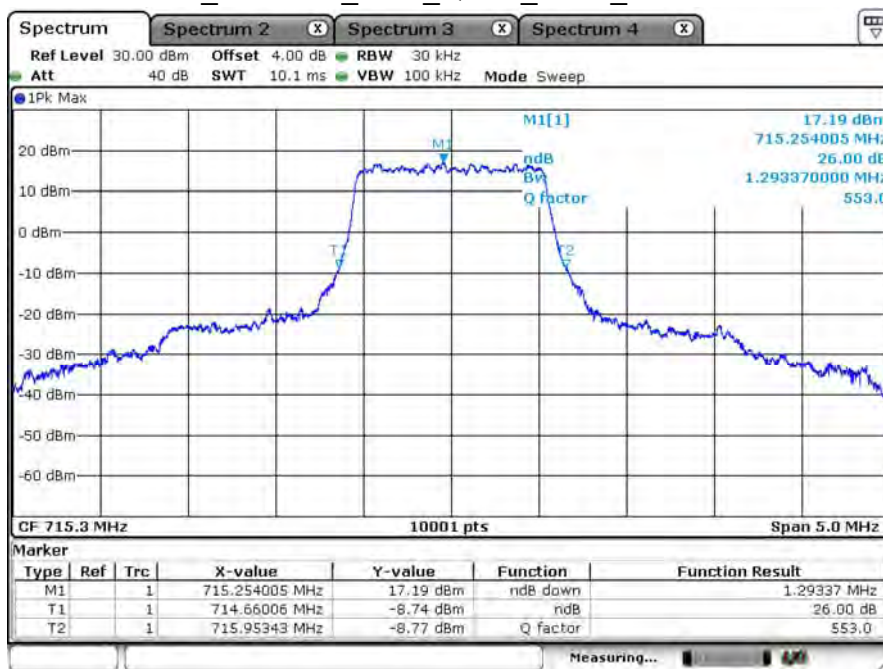
Date: 13.AUG.2019 15:38:14

B12\_CH23173\_1.4M\_QPSK\_1RB5\_26dB BW



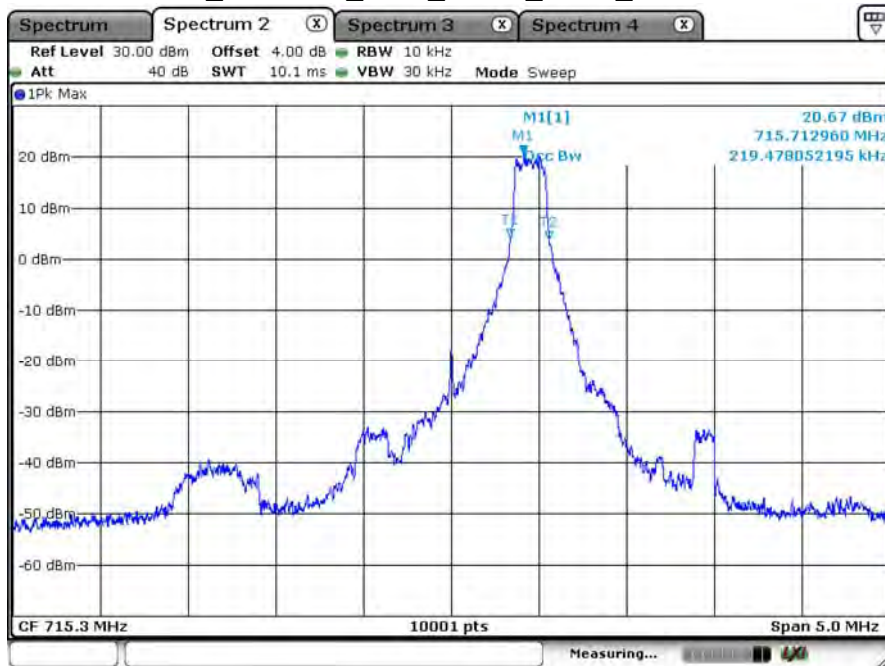
Date: 13.AUG.2019 15:24:59

B12\_CH23173\_1.4M\_QPSK\_6RB0\_26dB BW



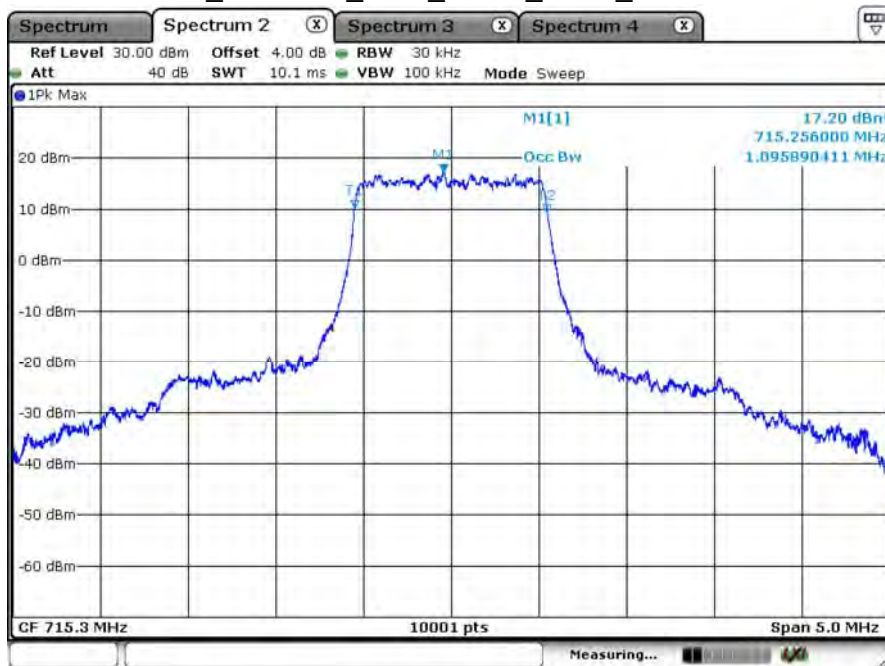
Date: 13.AUG.2019 15:40:20

### B12\_CH23173\_1.4M\_QPSK\_1RB5\_99% BW



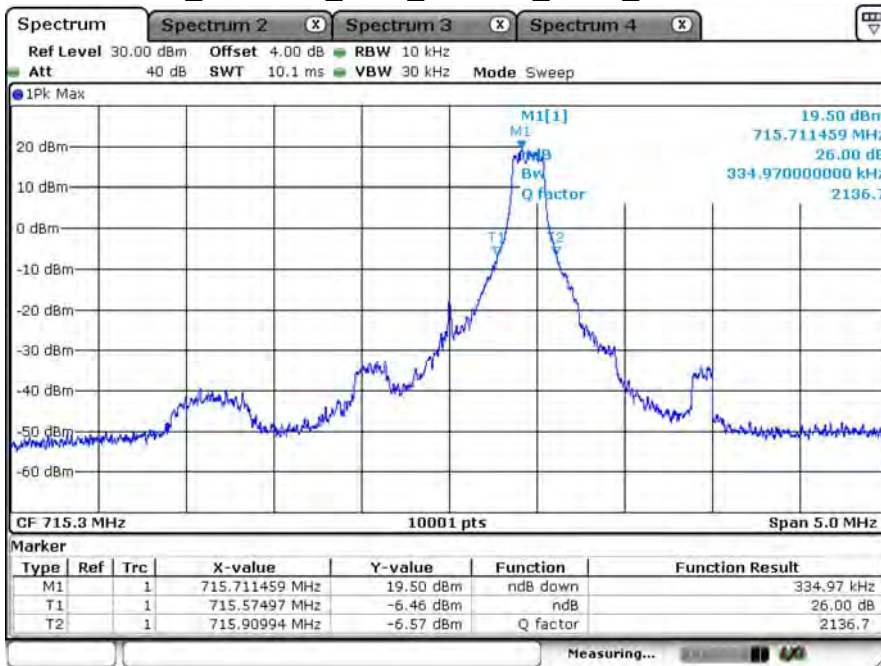
Date: 13.AUG.2019 15:25:37

### B12\_CH23173\_1.4M\_QPSK\_6RB0\_99% BW



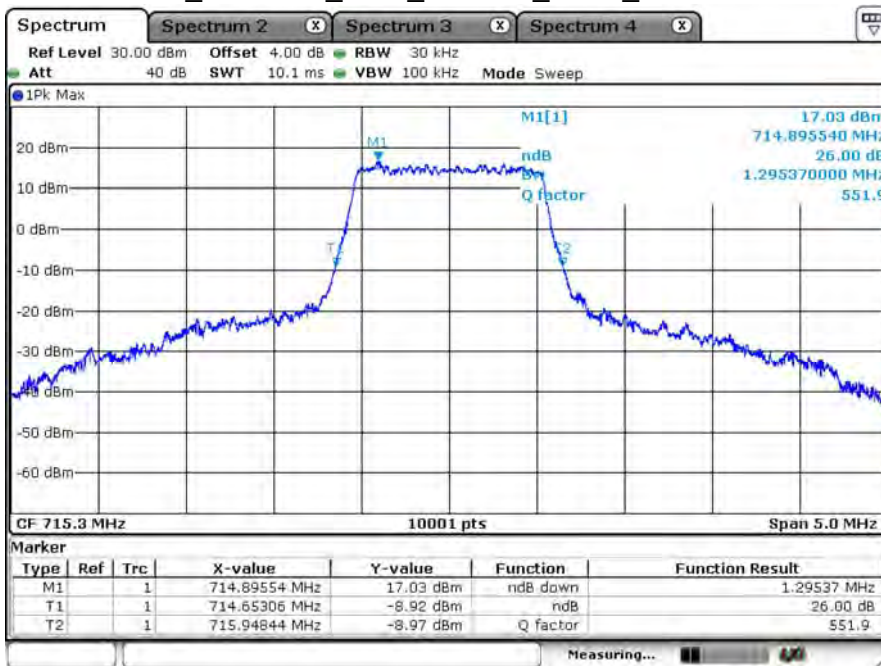
Date: 13.AUG.2019 15:41:04

B12\_CH23173\_1.4M\_16-QAM\_1RB5\_26dB BW



Date: 13.AUG.2019 15:28:00

B12\_CH23173\_1.4M\_16-QAM\_6RB0\_26dB BW



Date: 13.AUG.2019 15:43:11