

## Appendix G.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

### Test Result

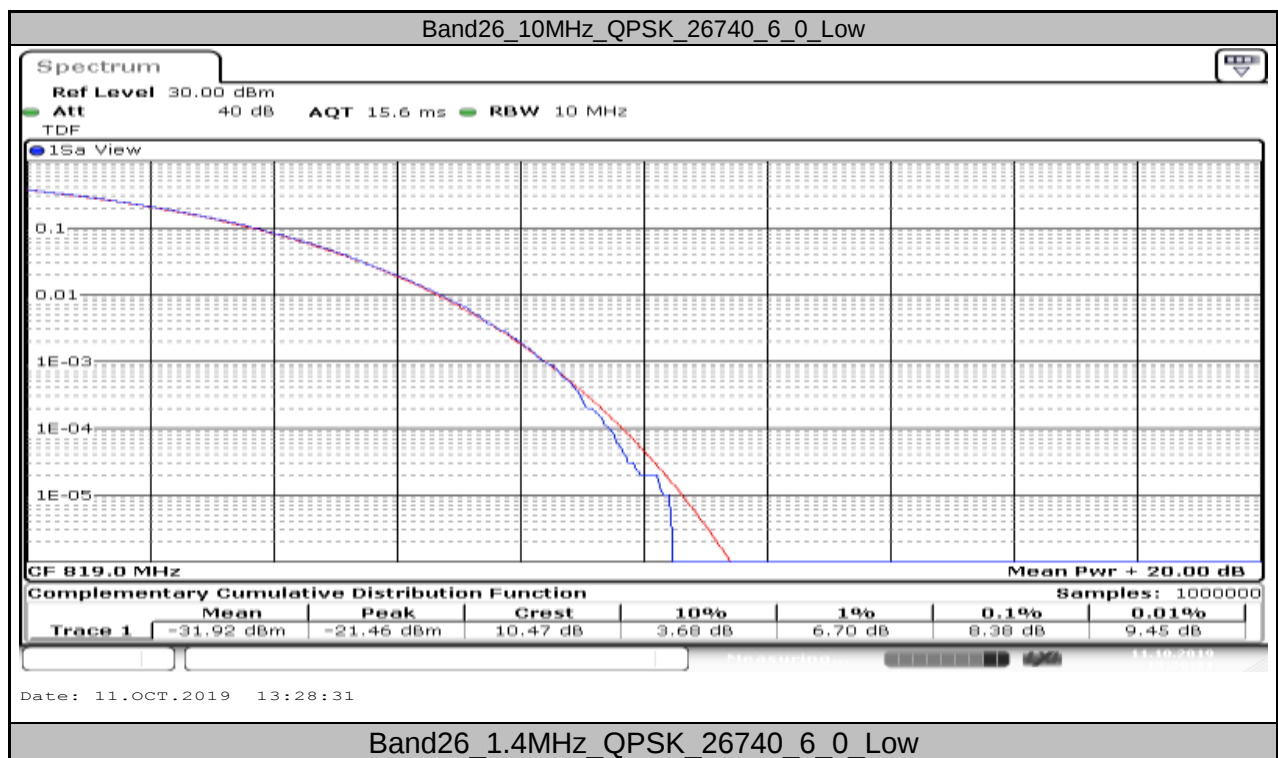
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result (dBm) | Power (watts) | Limit (watts) | Verdict |
|--------|-----------|------------|---------|---------|----------|---------|--------------|---------------|---------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26697   | 1       | 0        | Low     | 21           | 0.126         | 100           | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 6       | 0        | Low     | 19.13        | 0.082         | 100           | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low     | 21.6         | 0.145         | 100           | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6       | 0        | Low     | 19.2         | 0.083         | 100           | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6       | 0        | Low     | 19.17        | 0.083         | 100           | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1       | 5        | Low     | 21.38        | 0.137         | 100           | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6       | 0        | Low     | 19.13        | 0.082         | 100           | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1       | 0        | Low     | 20.2         | 0.105         | 100           | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 6       | 0        | Low     | 19.2         | 0.083         | 100           | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low     | 20.26        | 0.106         | 100           | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 6       | 0        | Low     | 19.08        | 0.081         | 100           | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 1       | 5        | Low     | 20.27        | 0.106         | 100           | PASS    |
| Band26 | 3MHz      | QPSK       | 26705   | 6       | 0        | Low     | 19           | 0.079         | 100           | PASS    |
| Band26 | 3MHz      | QPSK       | 26705   | 1       | 0        | Low     | 21.21        | 0.132         | 100           | PASS    |
| Band26 | 3MHz      | QPSK       | 26740   | 1       | 0        | Low     | 21.29        | 0.135         | 100           | PASS    |
| Band26 | 3MHz      | QPSK       | 26740   | 6       | 0        | Low     | 19.18        | 0.083         | 100           | PASS    |
| Band26 | 3MHz      | QPSK       | 26775   | 1       | 5        | High    | 21.22        | 0.132         | 100           | PASS    |
| Band26 | 3MHz      | QPSK       | 26775   | 6       | 0        | High    | 19.18        | 0.083         | 100           | PASS    |
| Band26 | 3MHz      | 16QAM      | 26705   | 1       | 0        | Low     | 20.3         | 0.107         | 100           | PASS    |
| Band26 | 3MHz      | 16QAM      | 26705   | 6       | 0        | Low     | 18.99        | 0.079         | 100           | PASS    |
| Band26 | 3MHz      | 16QAM      | 26740   | 1       | 0        | Low     | 20.46        | 0.111         | 100           | PASS    |
| Band26 | 3MHz      | 16QAM      | 26740   | 6       | 0        | Low     | 19.19        | 0.083         | 100           | PASS    |
| Band26 | 3MHz      | 16QAM      | 26775   | 6       | 0        | High    | 19.09        | 0.081         | 100           | PASS    |
| Band26 | 3MHz      | 16QAM      | 26775   | 1       | 5        | High    | 20.26        | 0.106         | 100           | PASS    |
| Band26 | 5MHz      | QPSK       | 26715   | 1       | 0        | Low     | 21.2         | 0.132         | 100           | PASS    |
| Band26 | 5MHz      | QPSK       | 26715   | 6       | 0        | Low     | 20.02        | 0.100         | 100           | PASS    |
| Band26 | 5MHz      | QPSK       | 26740   | 1       | 0        | Low     | 21.22        | 0.132         | 100           | PASS    |
| Band26 | 5MHz      | QPSK       | 26740   | 6       | 0        | Low     | 20.04        | 0.101         | 100           | PASS    |
| Band26 | 5MHz      | QPSK       | 26765   | 1       | 5        | High    | 21.27        | 0.134         | 100           | PASS    |
| Band26 | 5MHz      | QPSK       | 26765   | 3       | 3        | High    | 21.05        | 0.127         | 100           | PASS    |
| Band26 | 5MHz      | 16QAM      | 26715   | 6       | 0        | Low     | 20.02        | 0.100         | 100           | PASS    |
| Band26 | 5MHz      | 16QAM      | 26715   | 1       | 0        | Low     | 20.53        | 0.113         | 100           | PASS    |
| Band26 | 5MHz      | 16QAM      | 26740   | 1       | 0        | Low     | 20.54        | 0.113         | 100           | PASS    |
| Band26 | 5MHz      | 16QAM      | 26740   | 6       | 0        | Low     | 20.03        | 0.101         | 100           | PASS    |
| Band26 | 5MHz      | 16QAM      | 26765   | 3       | 3        | High    | 20.72        | 0.118         | 100           | PASS    |
| Band26 | 5MHz      | 16QAM      | 26765   | 1       | 5        | High    | 20.59        | 0.115         | 100           | PASS    |
| Band26 | 10MHz     | QPSK       | 26740   | 1       | 0        | Low     | 21.26        | 0.134         | 100           | PASS    |
| Band26 | 10MHz     | QPSK       | 26740   | 5       | 0        | Low     | 21.12        | 0.129         | 100           | PASS    |
| Band26 | 10MHz     | QPSK       | 26740   | 1       | 5        | High    | 21.23        | 0.133         | 100           | PASS    |
| Band26 | 10MHz     | QPSK       | 26740   | 5       | 1        | High    | 21.3         | 0.135         | 100           | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 5       | 0        | Low     | 20.95        | 0.124         | 100           | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 1       | 5        | High    | 20.57        | 0.114         | 100           | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 5       | 1        | High    | 21.02        | 0.126         | 100           | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 1       | 0        | Low     | 20.58        | 0.114         | 100           | PASS    |

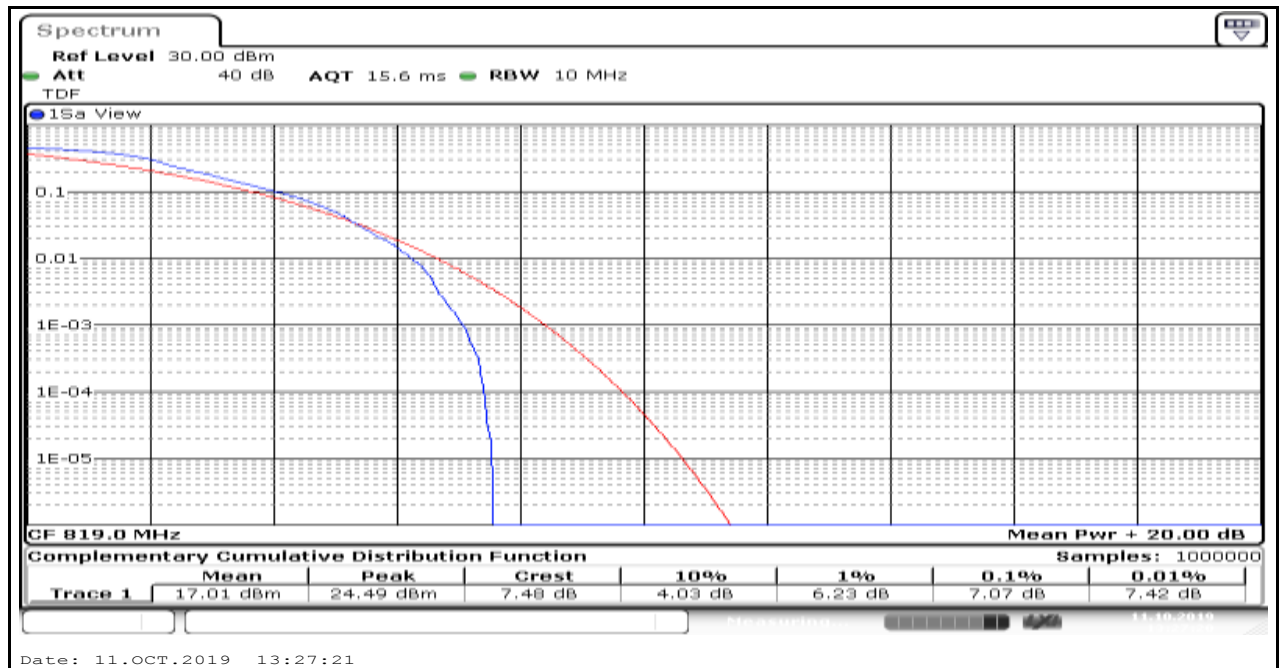
## Appendix G.2: Peak-to-Average Ratio (CCDF) for M1

### Test Result

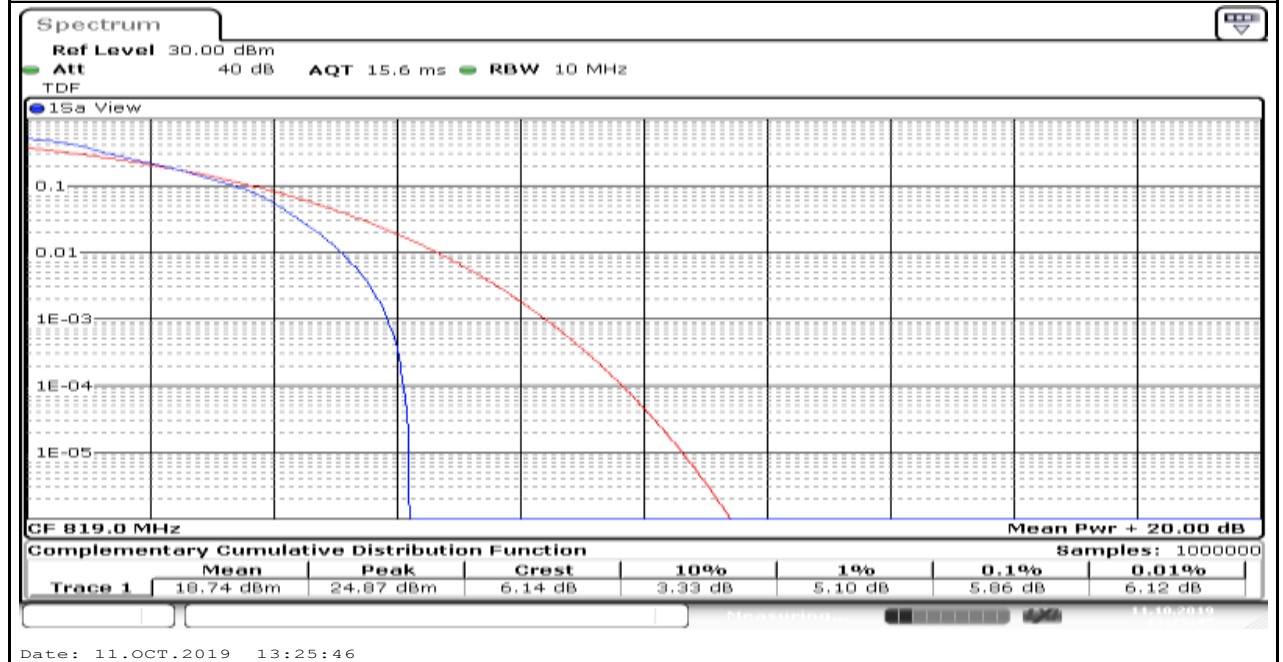
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|---------|----------|---------|------------|-----------|---------|
| Band26 | 10MHz     | QPSK       | 26740   | 6       | 0        | Low     | 8.38       | <=13      | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6       | 0        | Low     | 7.07       | <=13      | PASS    |
| Band26 | 5MHz      | QPSK       | 26740   | 6       | 0        | Low     | 5.86       | <=13      | PASS    |
| Band26 | 3MHz      | QPSK       | 26740   | 6       | 0        | Low     | 8.55       | <=13      | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 6       | 0        | Low     | 10.64      | <=13      | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 6       | 0        | Low     | 9.80       | <=13      | PASS    |
| Band26 | 5MHz      | 16QAM      | 26740   | 6       | 0        | Low     | 11.77      | <=13      | PASS    |
| Band26 | 3MHz      | 16QAM      | 26740   | 6       | 0        | Low     | 11.97      | <=13      | PASS    |

### Test Graphs

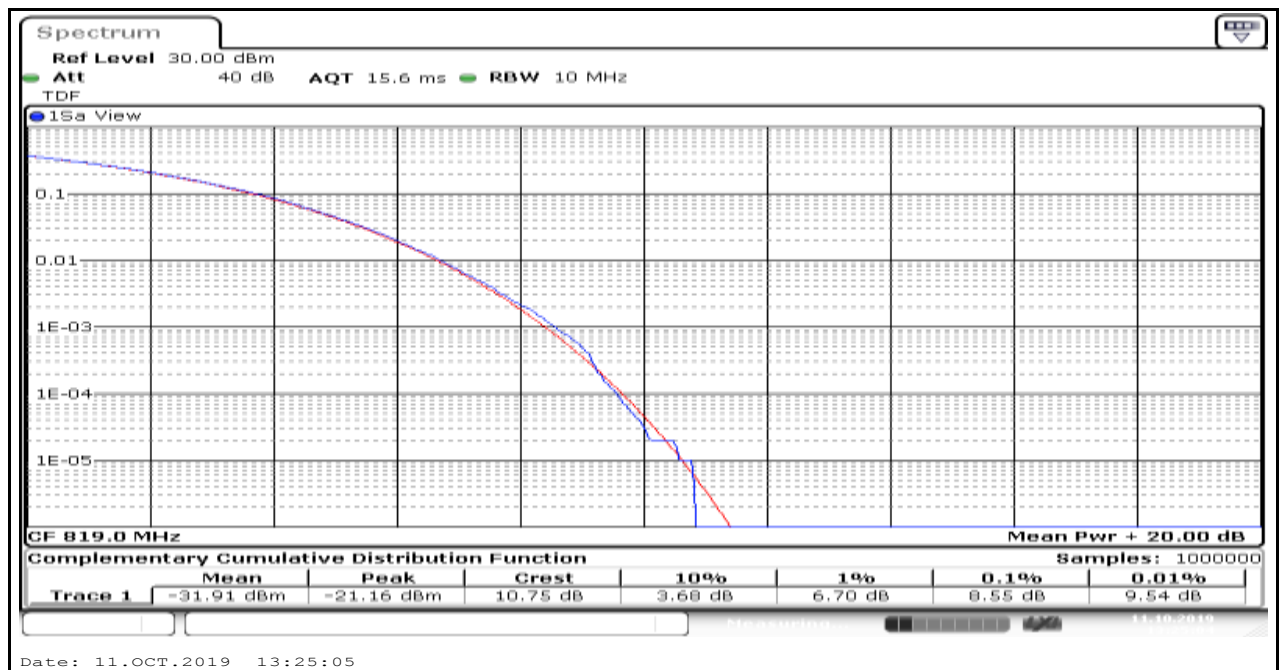




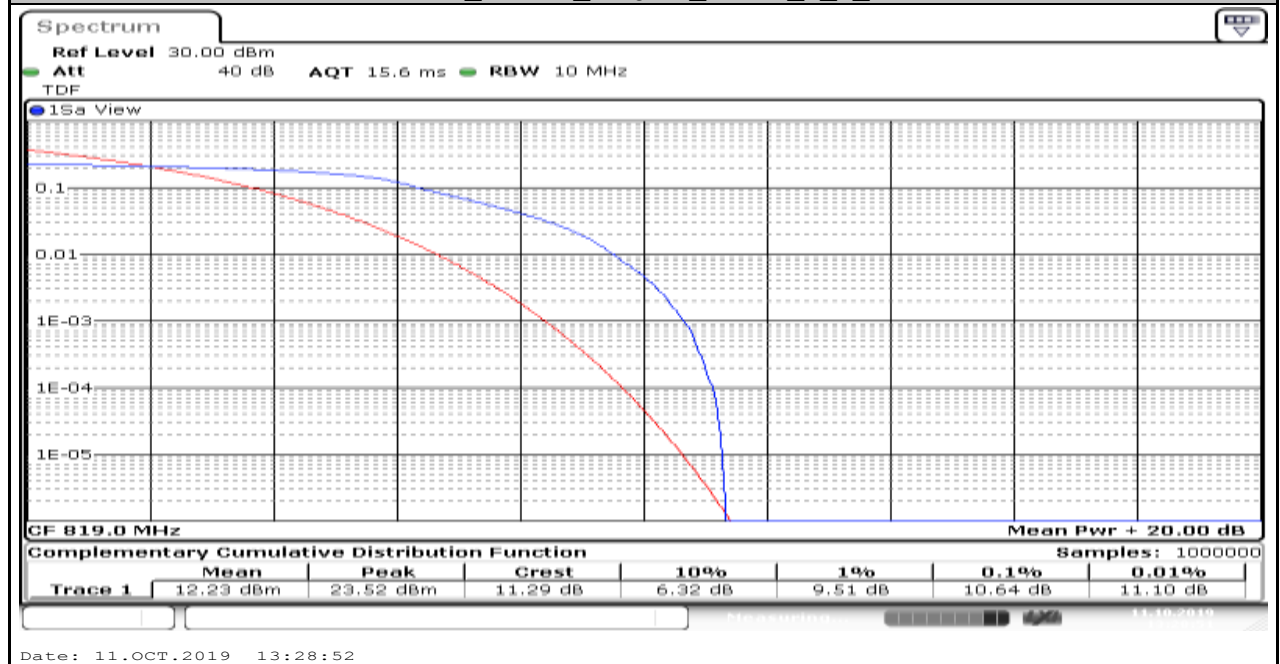
Band26\_5MHz\_QPSK\_26740\_6\_0\_Low



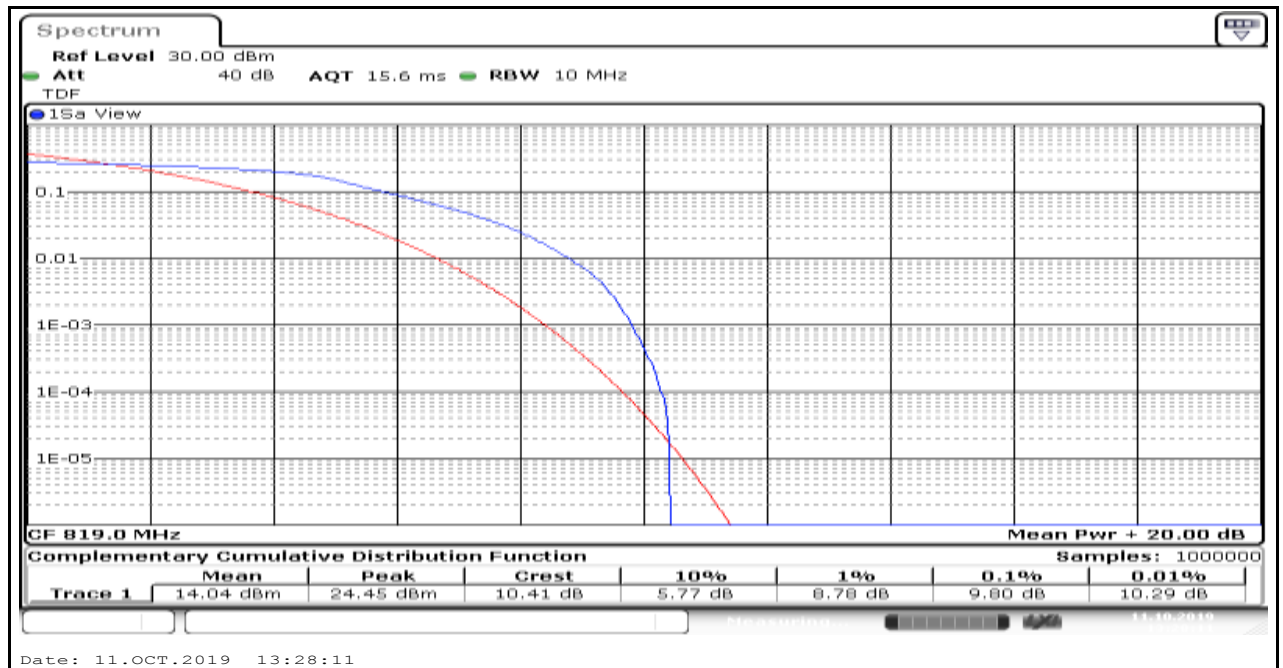
Band26\_3MHz\_QPSK\_26740\_6\_0\_Low



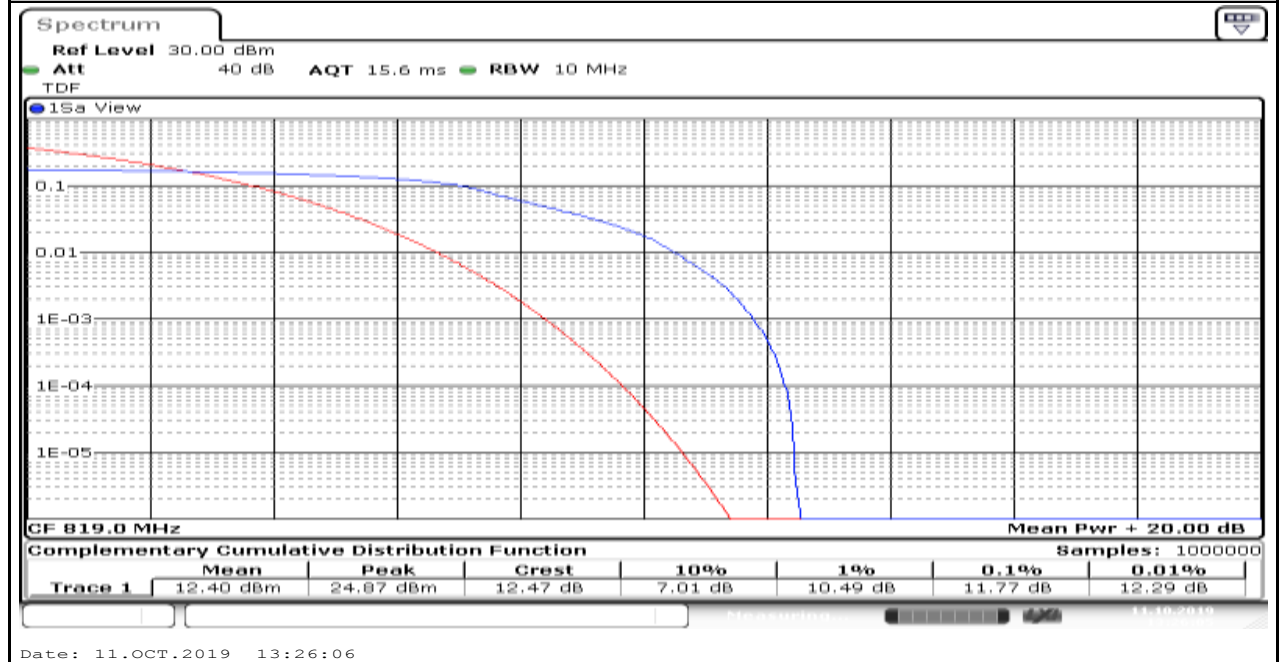
Band26\_10MHz\_16QAM\_26740\_6\_0\_Low



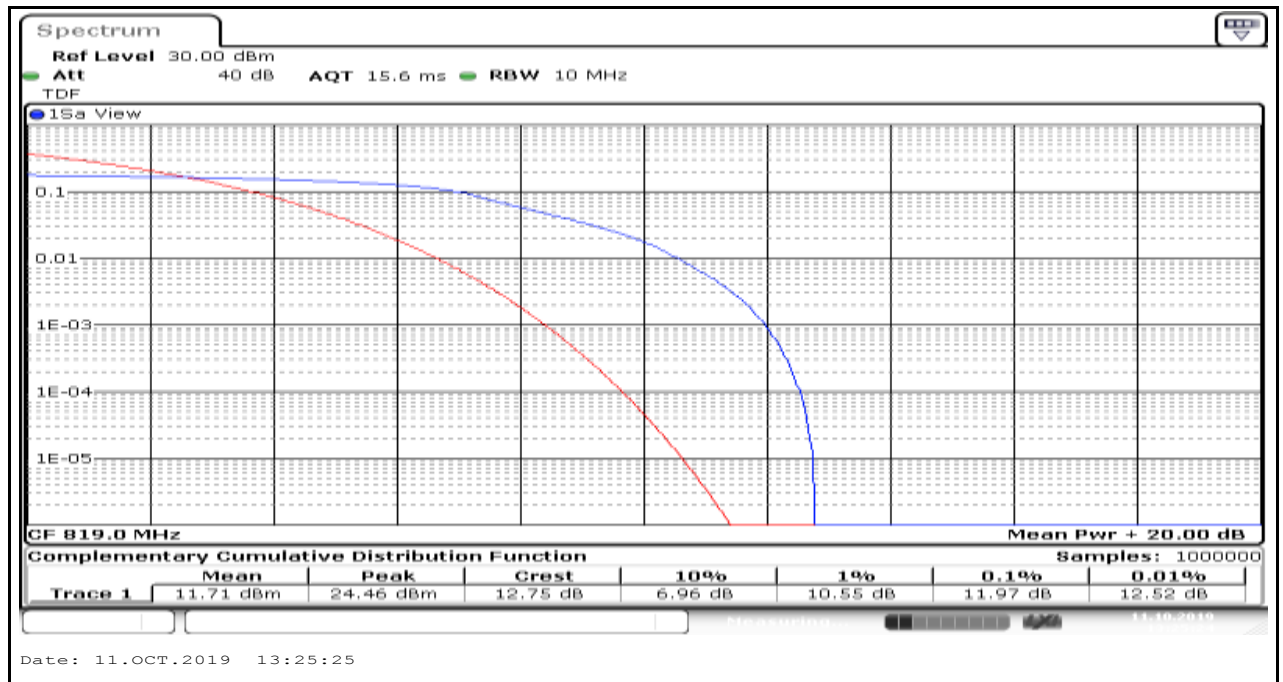
Band26\_1.4MHz\_16QAM\_26740\_6\_0\_Low



Band26\_5MHz\_16QAM\_26740\_6\_0\_Low



Band26\_3MHz\_16QAM\_26740\_6\_0\_Low

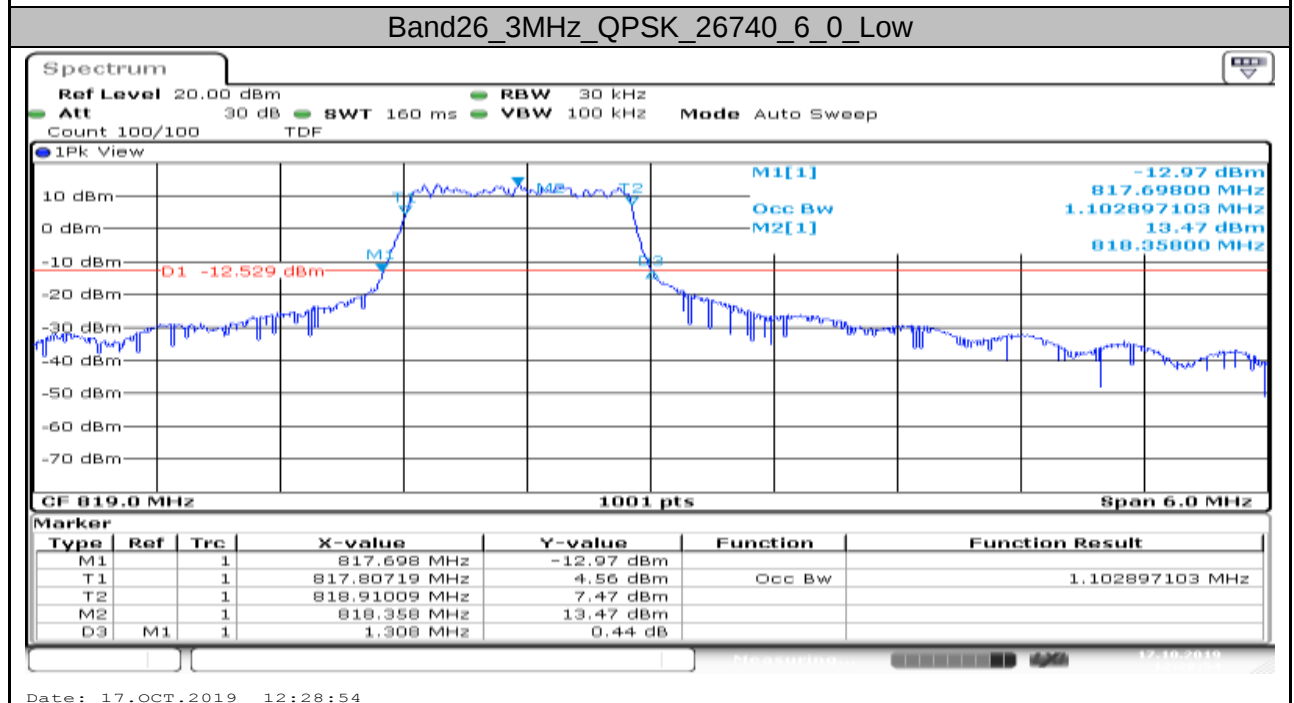
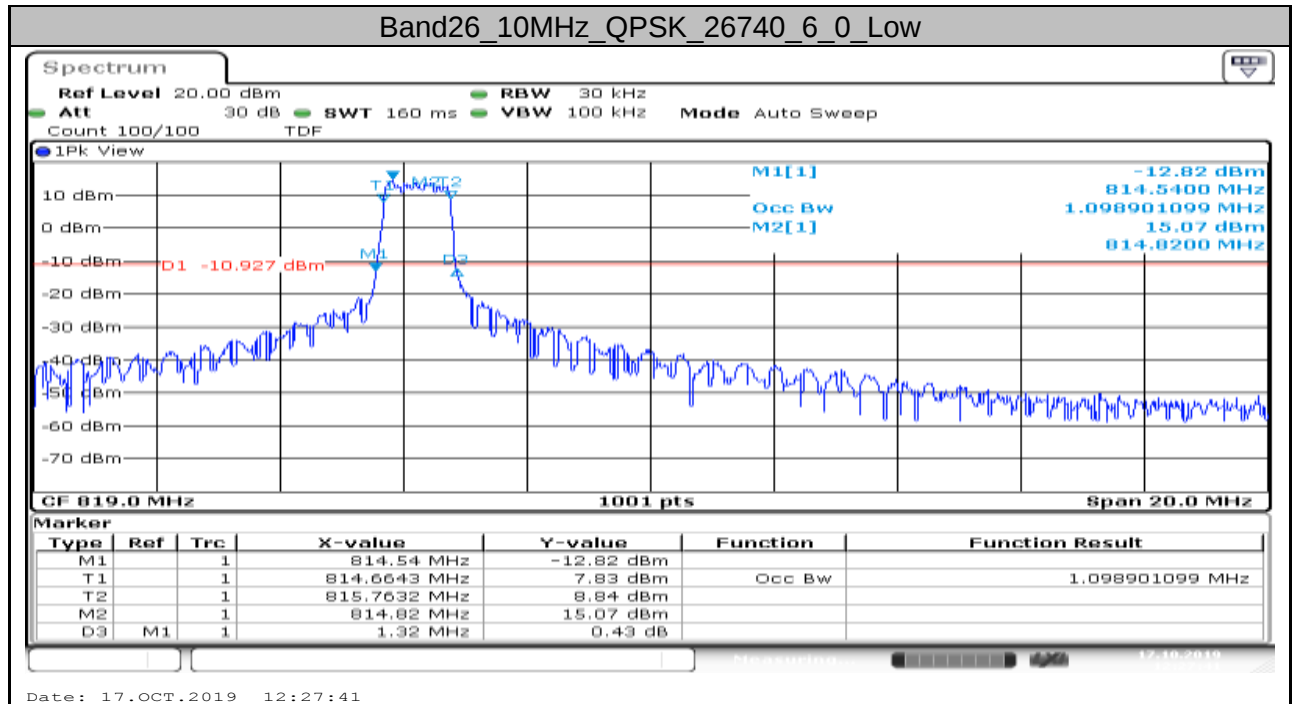


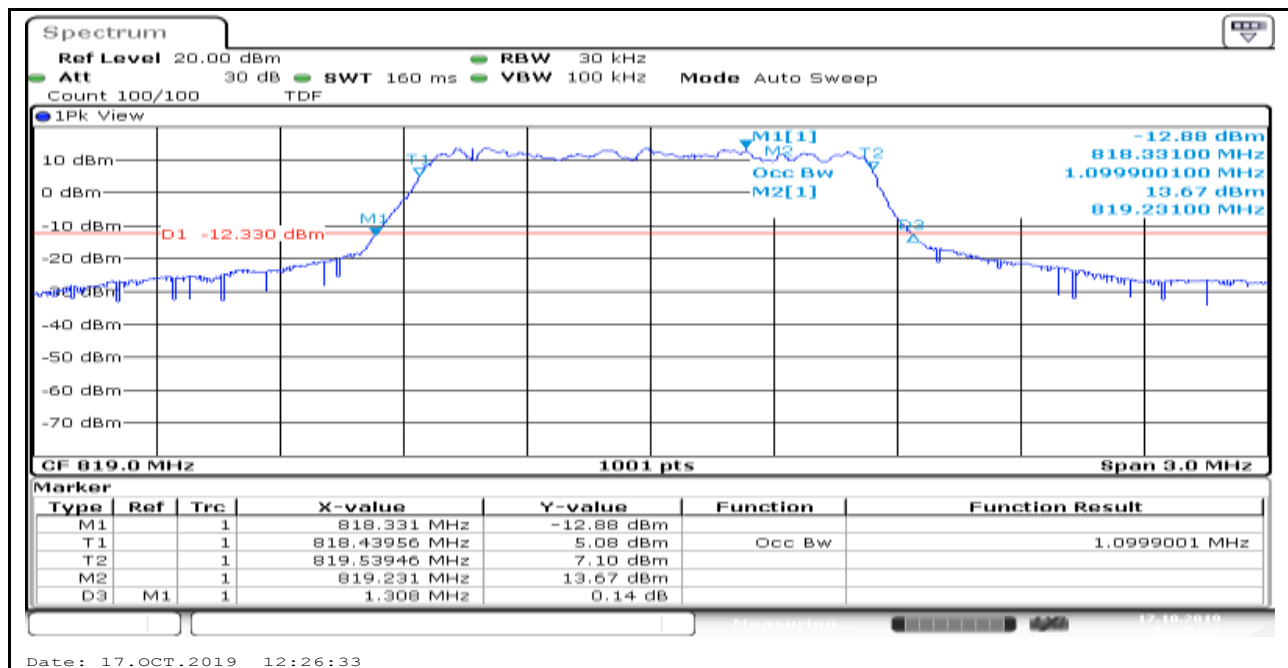
## Appendix G.3: 26dB Bandwidth and Occupied Bandwidth for M1

### Test Result

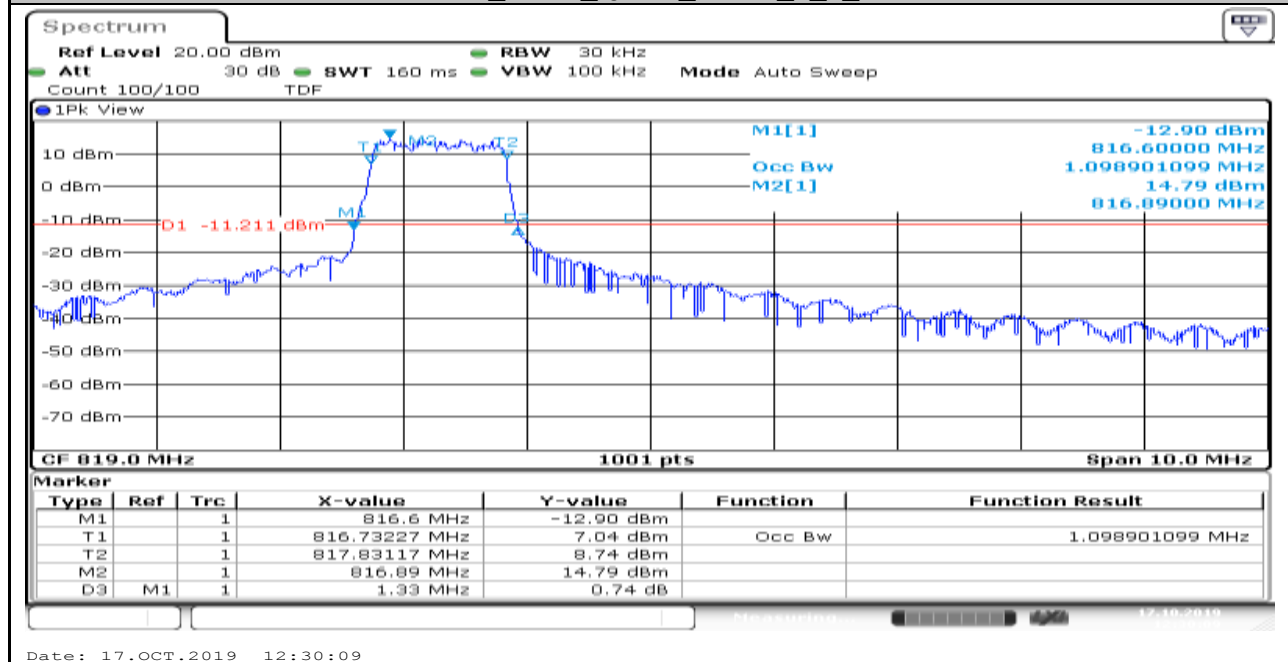
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|--------------------------|----------------------|---------|
| Band26 | 10MHz     | QPSK       | 26740   | 6       | 0        | Low      | 1.099                    | 1.320                | PASS    |
| Band26 | 3MHz      | QPSK       | 26740   | 6       | 0        | Low      | 1.103                    | 1.308                | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6       | 0        | Low      | 1.1                      | 1.308                | PASS    |
| Band26 | 5MHz      | QPSK       | 26740   | 6       | 0        | Low      | 1.099                    | 1.330                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 6       | 0        | Low      | 1.091                    | 1.275                | PASS    |
| Band26 | 10MHz     | 16QAM      | 26740   | 6       | 0        | Low      | 1.099                    | 1.320                | PASS    |
| Band26 | 3MHz      | 16QAM      | 26740   | 6       | 0        | Low      | 1.103                    | 1.296                | PASS    |
| Band26 | 5MHz      | 16QAM      | 26740   | 6       | 0        | Low      | 1.099                    | 1.330                | PASS    |

## Test Graphs

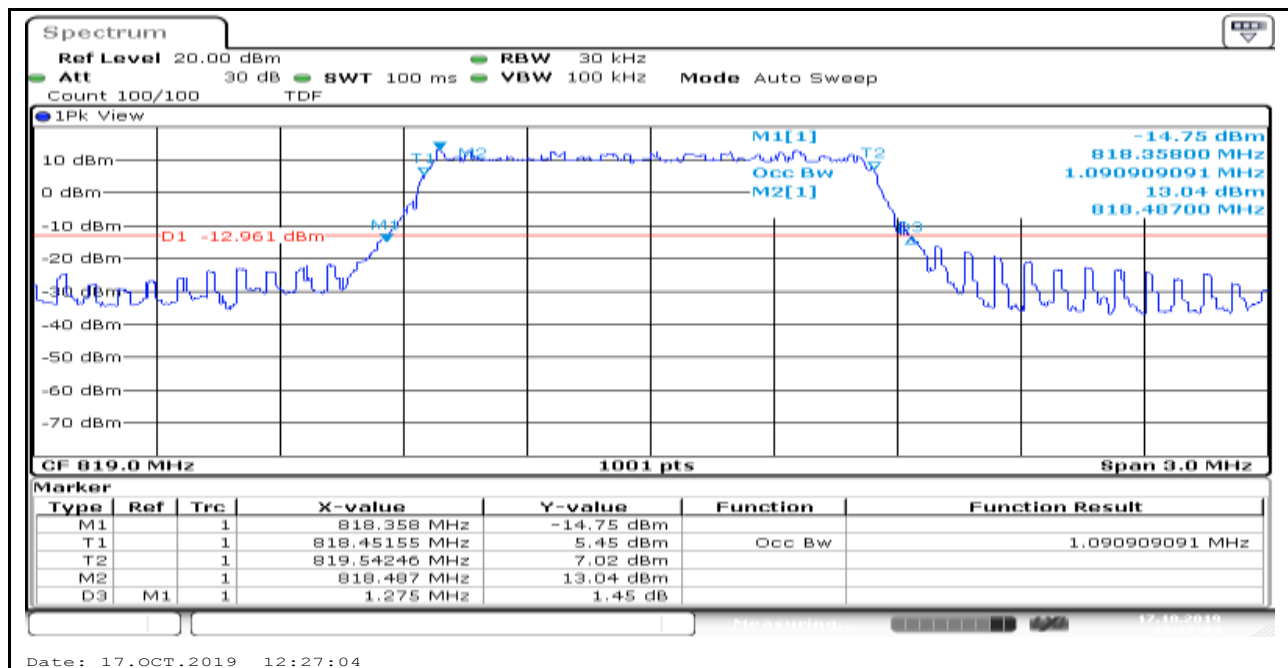




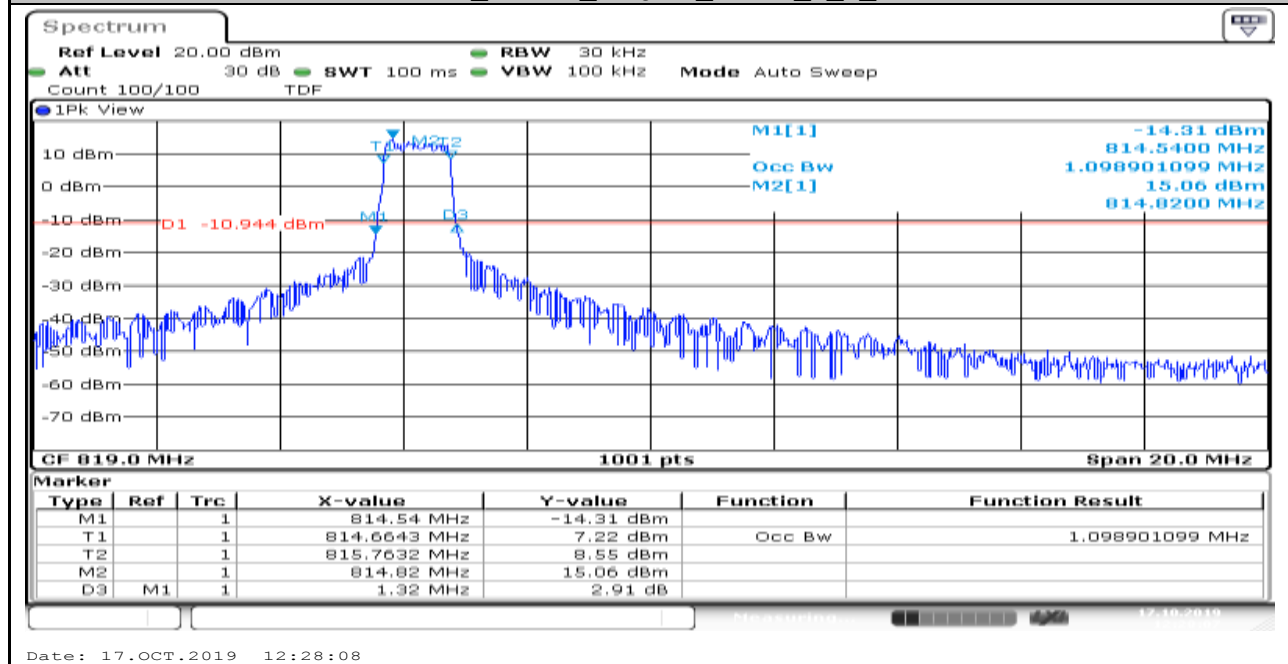
Band26\_5MHz\_QPSK\_26740\_6\_0\_Low



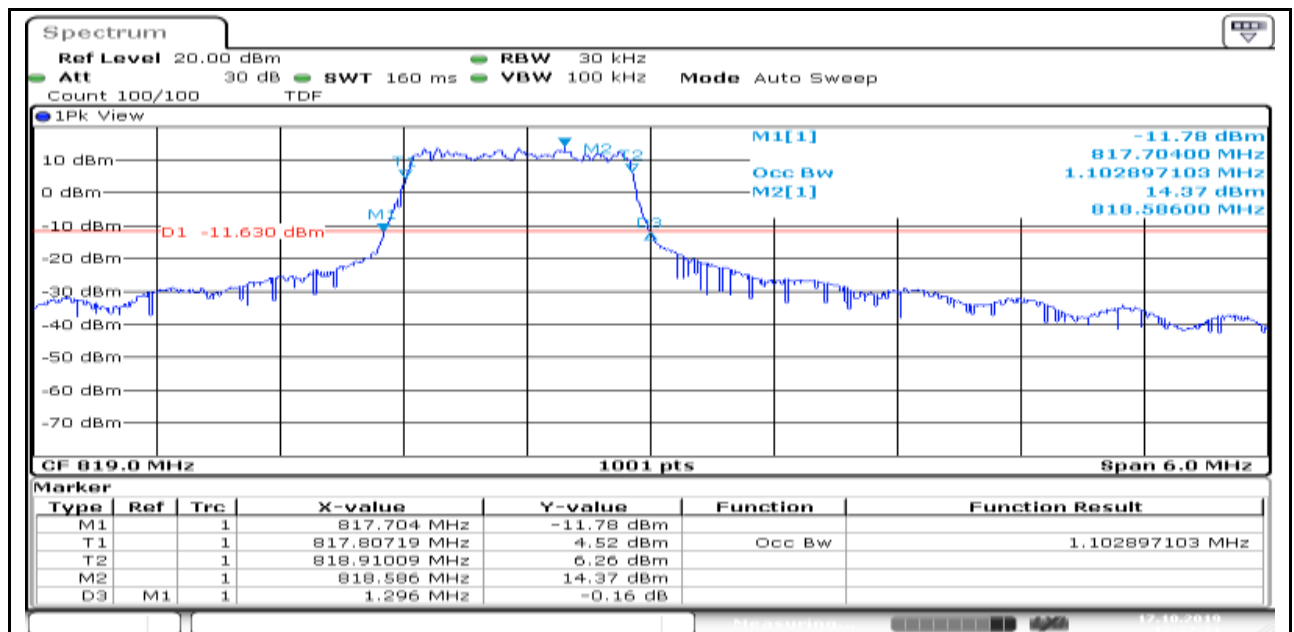
Band26\_1.4MHz\_16QAM\_26740\_6\_0\_Low



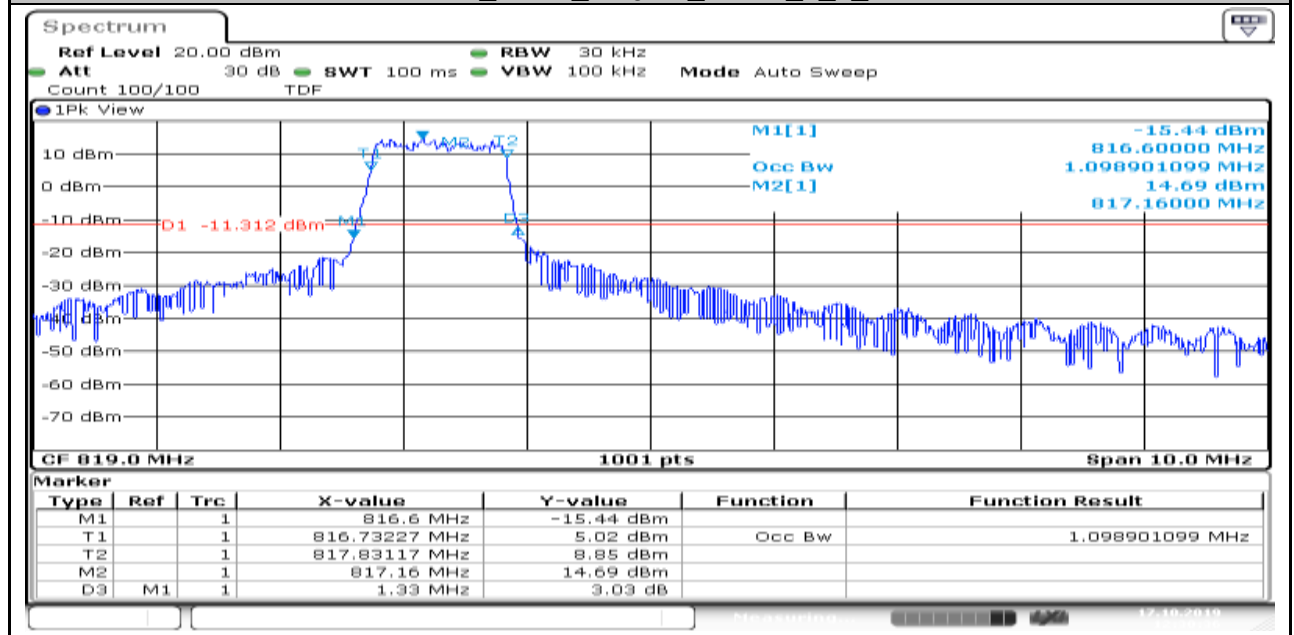
Band26\_10MHz\_16QAM\_26740\_6\_0\_Low



Band26\_3MHz\_16QAM\_26740\_6\_0\_Low



Band26\_5MHz\_16QAM\_26740\_6\_0\_Low

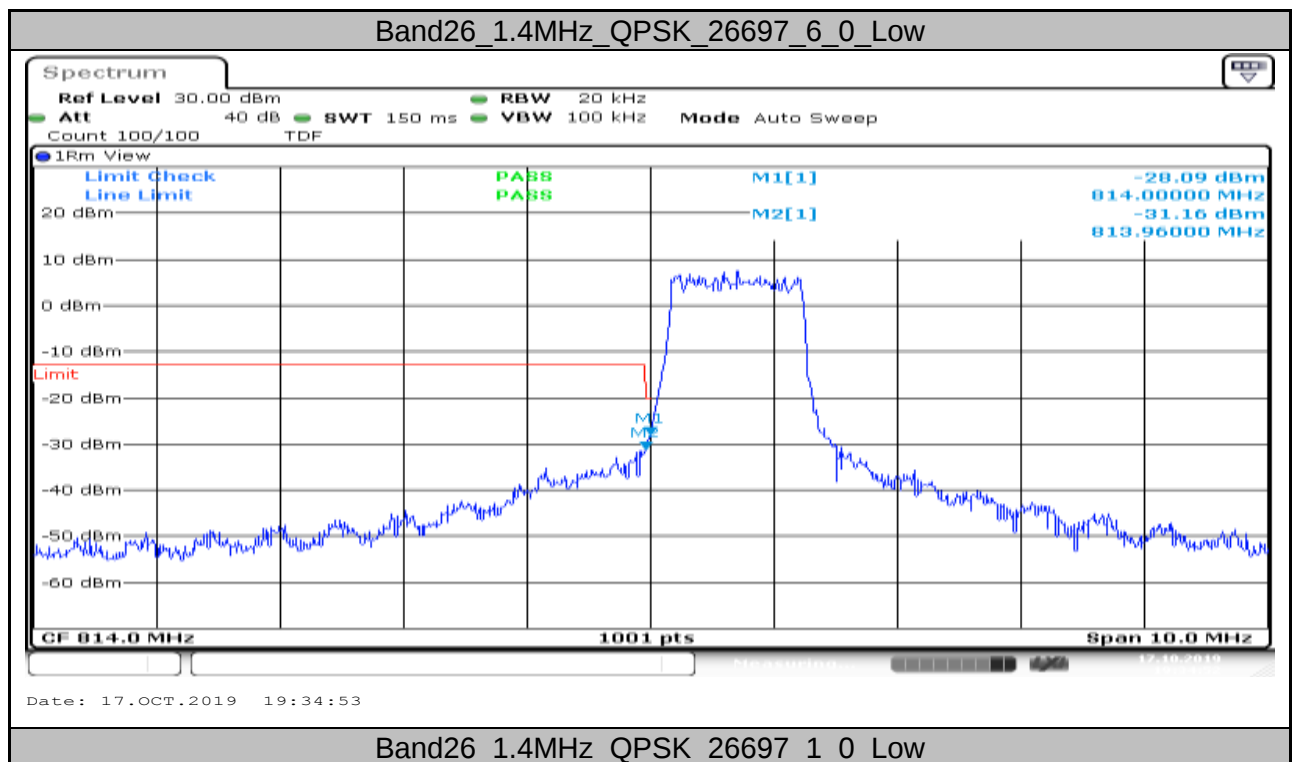


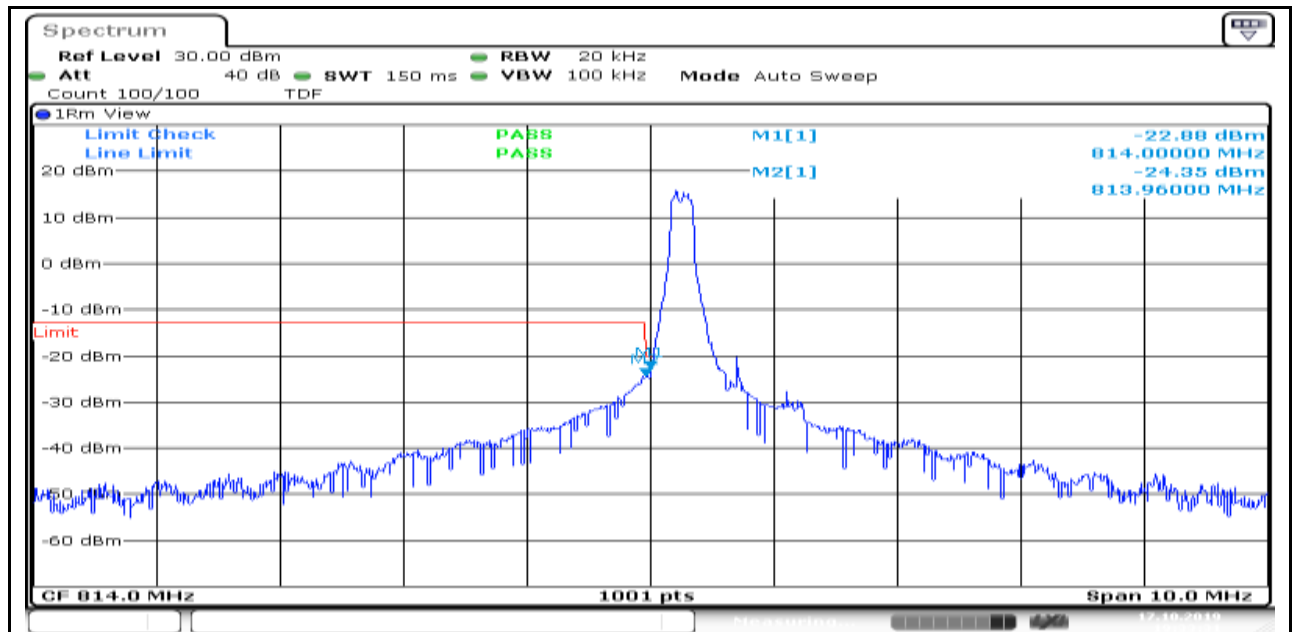
## Appendix G.4: Band Edge for M1

### Test Result

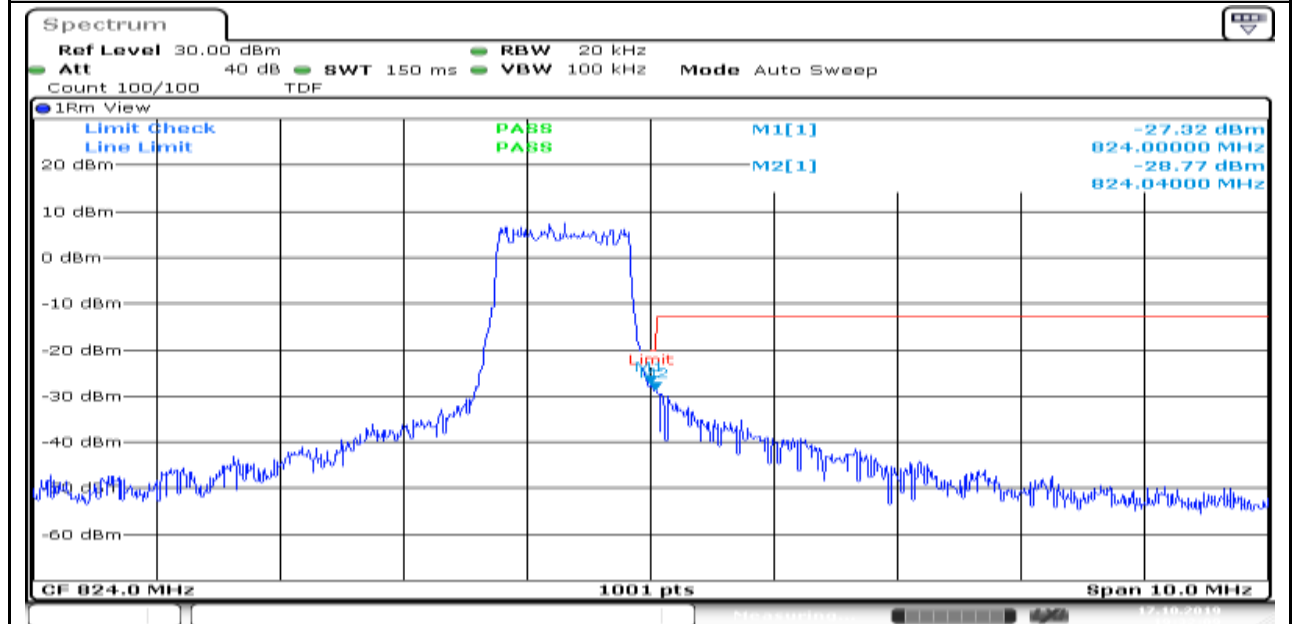
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Result (dBm)  | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|---------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26697   | 6       | 0        | Low      | -28.09,-31.16 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 1       | 0        | Low      | -22.88,-24.35 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6       | 0        | Low      | -27.32,-28.77 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1       | 5        | Low      | -21.01,-25.64 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6       | 0        | Low      | -29.97,-31.98 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1       | 0        | Low      | -20.68,-21.75 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 6       | 0        | Low      | -27.41,-28.66 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 1       | 5        | Low      | -20.84,-23.16 | PASS    |

### Test Graphs

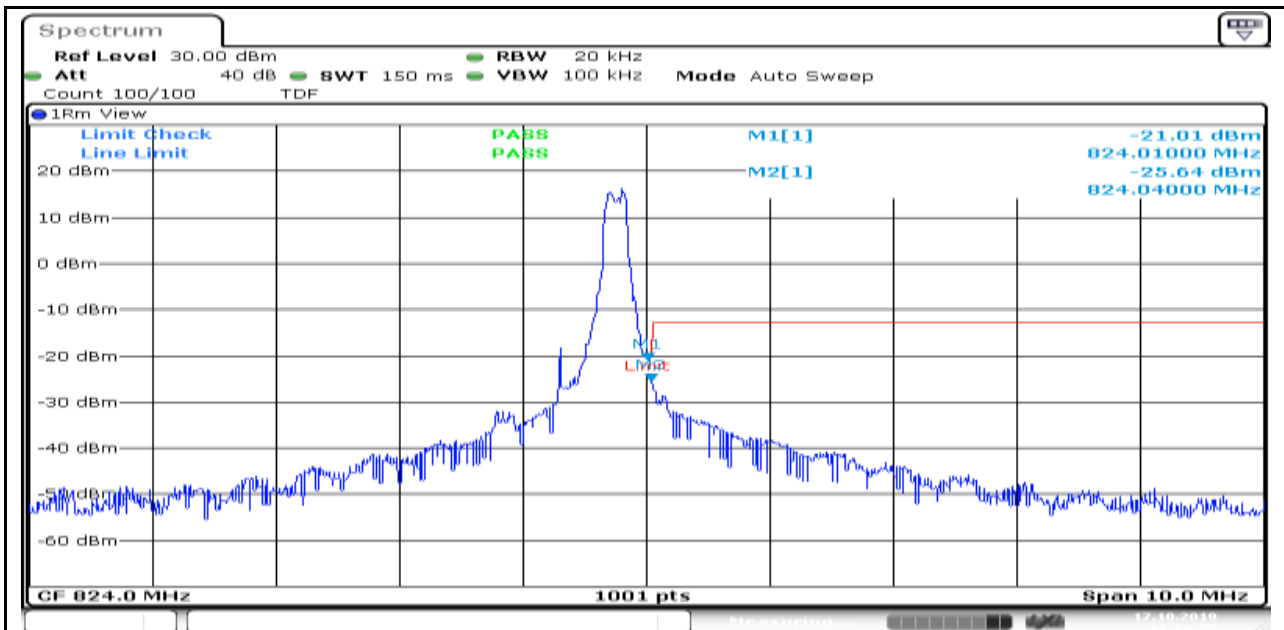




Band26\_1.4MHz\_QPSK\_26783\_6\_0\_Low

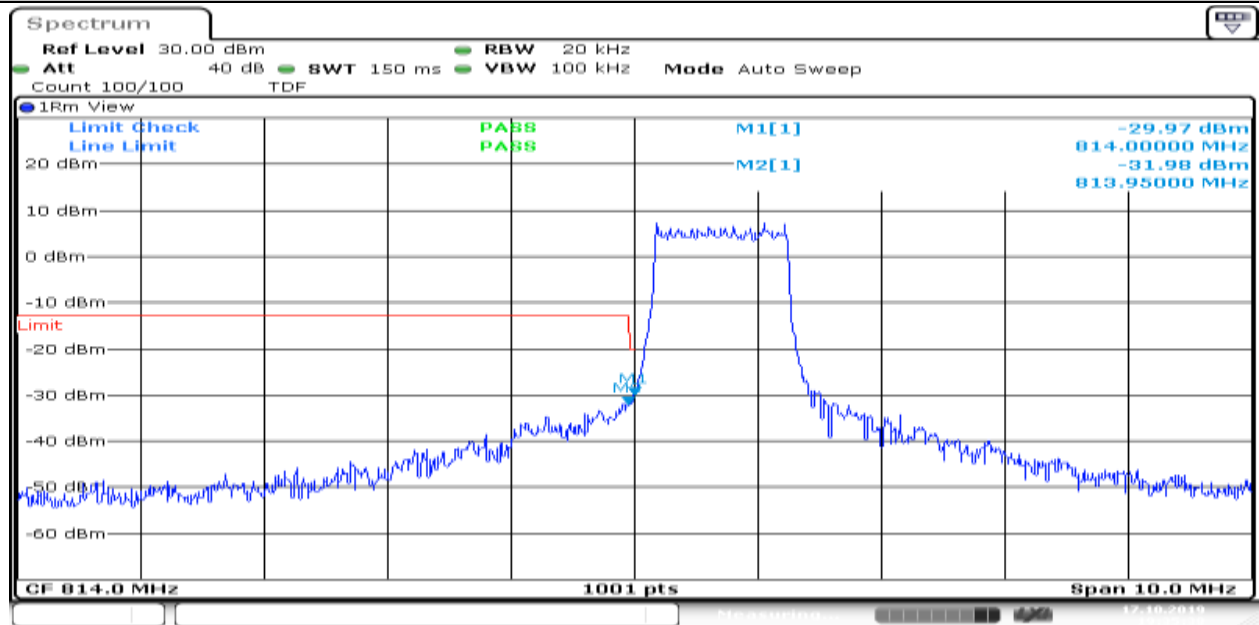


Band26\_1.4MHz\_QPSK\_26783\_1\_5\_Low



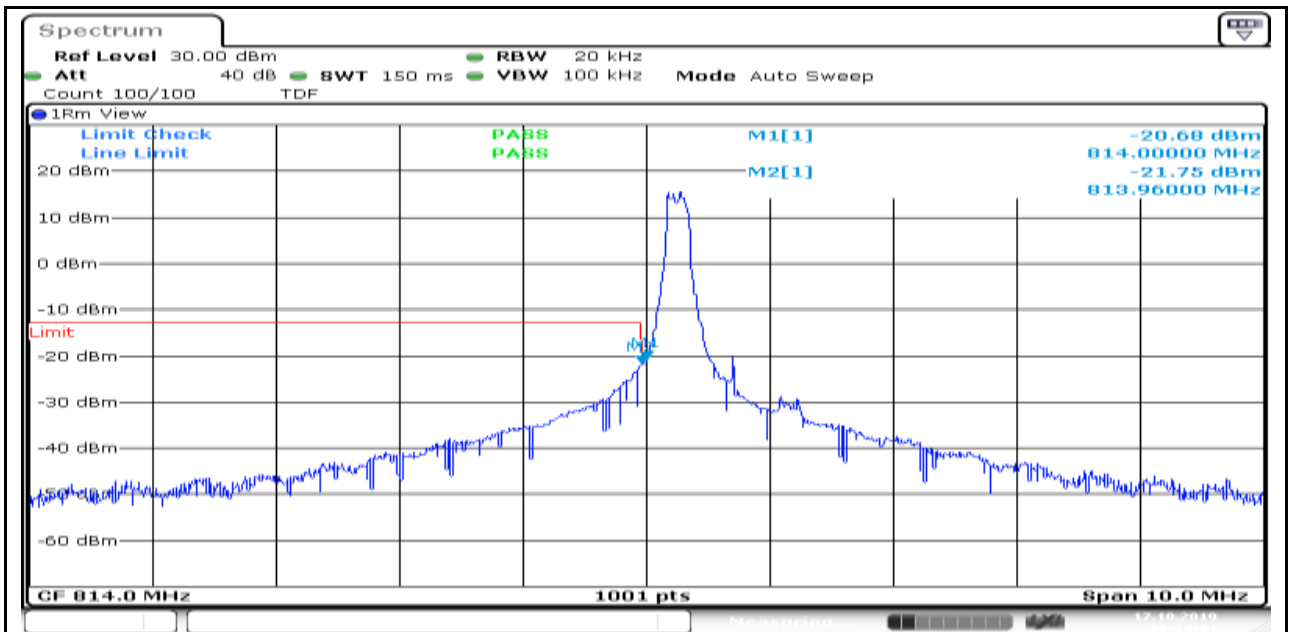
Date: 17.OCT.2019 19:29:56

Band26\_1.4MHz\_16QAM\_26697\_6\_0\_Low\_-29.97,-31.98\_PASS\_123\B26\Band26\NTNV-band\_edges\_compliance\_for\_m1-Band26-1.4MHz-26697-6RB#0@Low-16QAM-20191017062719.Gif

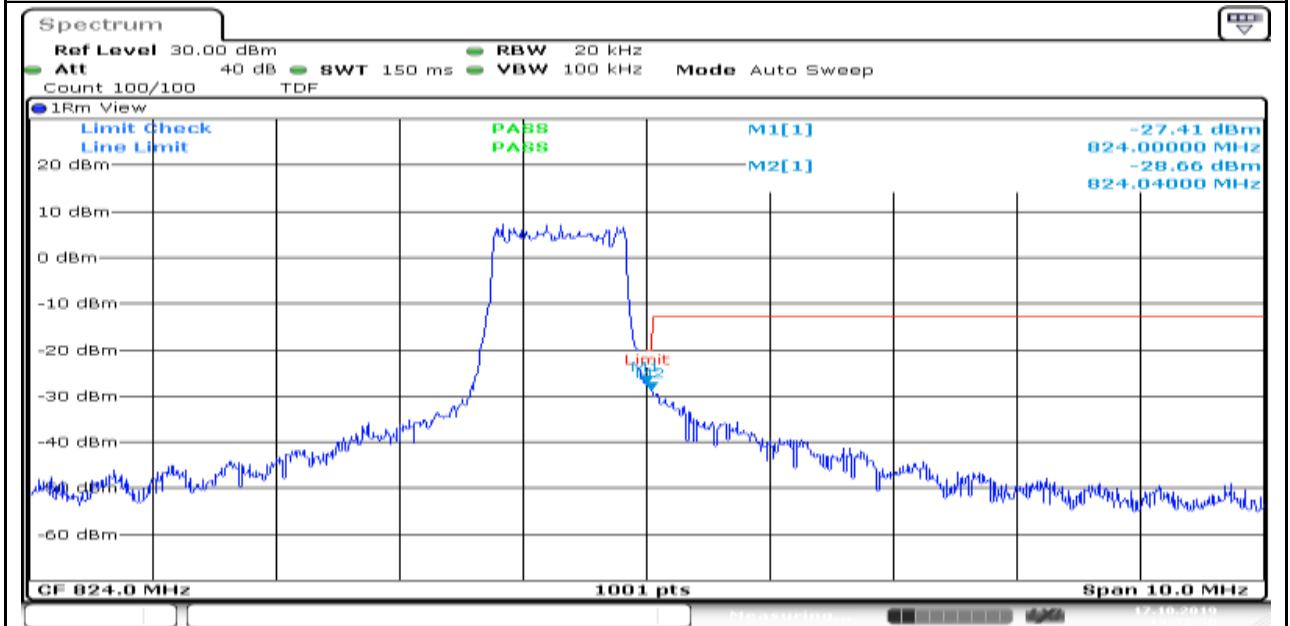


Date: 17.OCT.2019 19:35:39

Band26\_1.4MHz\_16QAM\_26697\_1\_0\_Low



Band26\_1.4MHz\_16QAM\_26783\_6\_0\_Low



Band26\_1.4MHz\_16QAM\_26783\_1\_5\_Low

Produkte  
Products



## Appendix G.5: Conducted Spurious Emission for M1

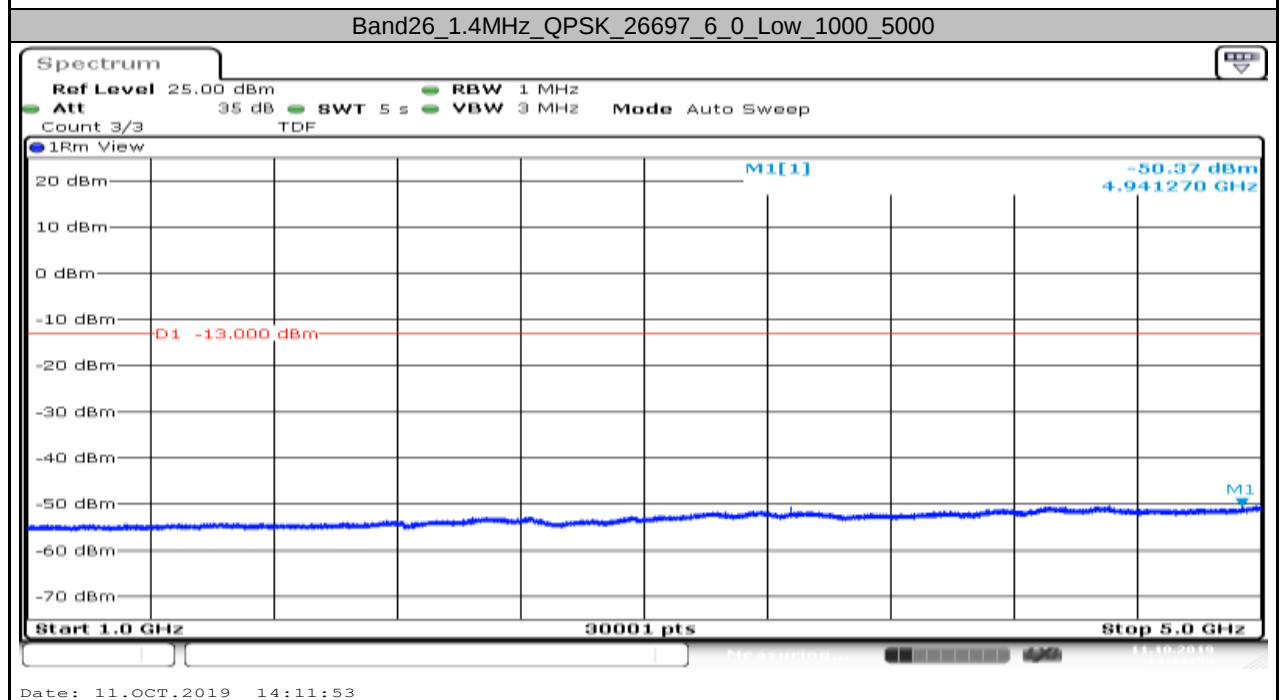
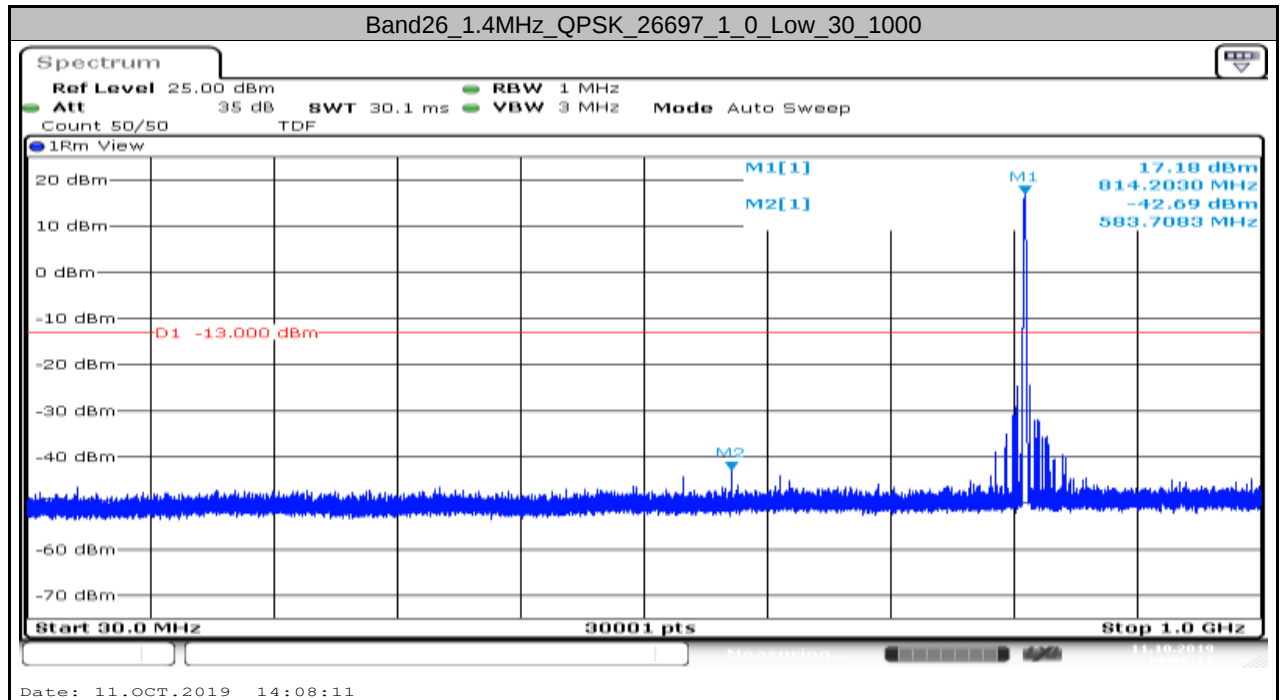
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Start Freq | Stop Freq | Result (dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|------------|-----------|--------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26697   | 1       | 0        | Low      | 30         | 1000      | -42.69       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 6       | 0        | Low      | 1000       | 5000      | -50.37       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 6       | 0        | Low      | 5000       | 12000     | -63.2        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 6       | 0        | Low      | 12000      | 26500     | -59.24       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 6       | 0        | Low      | 30         | 1000      | -43.66       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 1       | 0        | Low      | 5000       | 12000     | -63.34       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 1       | 0        | Low      | 1000       | 5000      | -50.29       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26697   | 1       | 0        | Low      | 12000      | 26500     | -59.37       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | 30         | 1000      | -43.32       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | 1000       | 5000      | -50.31       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | 5000       | 12000     | -63.32       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6       | 0        | Low      | 30         | 1000      | -42.12       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | 12000      | 26500     | -59.49       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6       | 0        | Low      | 1000       | 5000      | -50.5        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6       | 0        | Low      | 5000       | 12000     | -63.33       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26740   | 6       | 0        | Low      | 12000      | 26500     | -59.51       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6       | 0        | Low      | 1000       | 5000      | -50.28       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1       | 5        | Low      | 5000       | 12000     | -63.3        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6       | 0        | Low      | 12000      | 26500     | -59.56       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1       | 5        | Low      | 1000       | 5000      | -50.42       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1       | 5        | Low      | 30         | 1000      | -42.69       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 1       | 5        | Low      | 12000      | 26500     | -59.4        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6       | 0        | Low      | 30         | 1000      | -45.2        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26783   | 6       | 0        | Low      | 5000       | 12000     | -63.41       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6       | 0        | Low      | 12000      | 26500     | -59.56       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1       | 0        | Low      | 1000       | 5000      | -50.53       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1       | 0        | Low      | 5000       | 12000     | -63.31       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1       | 0        | Low      | 12000      | 26500     | -59.55       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6       | 0        | Low      | 30         | 1000      | -40.23       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 1       | 0        | Low      | 30         | 1000      | -41.94       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6       | 0        | Low      | 5000       | 12000     | -63.31       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26697   | 6       | 0        | Low      | 1000       | 5000      | -50.34       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 6       | 0        | Low      | 5000       | 12000     | -63.27       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 6       | 0        | Low      | 1000       | 5000      | -50.39       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 6       | 0        | Low      | 30         | 1000      | -44.67       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | 5000       | 12000     | -63.33       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | 1000       | 5000      | -50.33       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | 30         | 1000      | -43.48       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 6       | 0        | Low      | 12000      | 26500     | -59.52       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | 12000      | 26500     | -59.47       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 1       | 5        | Low      | 30         | 1000      | -44.96       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 1       | 5        | Low      | 1000       | 5000      | -50.5        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 1       | 5        | Low      | 12000      | 26500     | -59.53       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 6       | 0        | Low      | 30         | 1000      | -42.26       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 6       | 0        | Low      | 1000       | 5000      | -50.49       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 6       | 0        | Low      | 5000       | 12000     | -63.29       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26783   | 6       | 0        | Low      | 12000      | 26500     | -59.58       | PASS    |

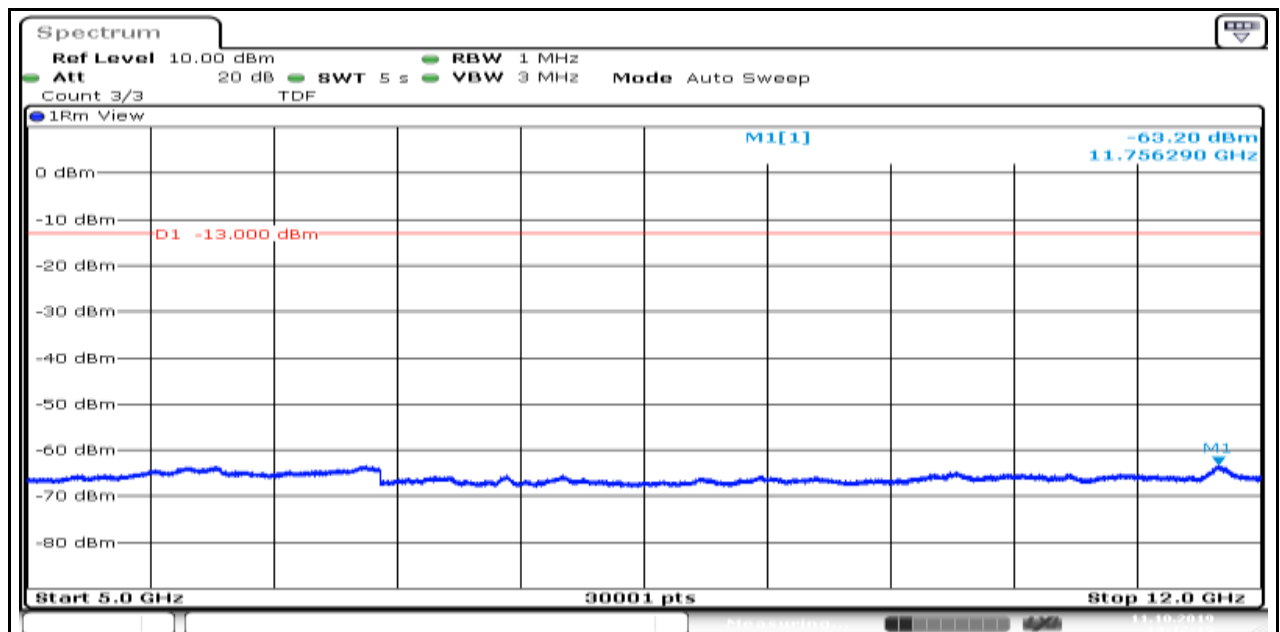
Produkte  
Products

|        |        |       |       |   |   |     |      |       |        |      |
|--------|--------|-------|-------|---|---|-----|------|-------|--------|------|
| Band26 | 1.4MHz | 16QAM | 26783 | 1 | 5 | Low | 5000 | 12000 | -63.38 | PASS |
|--------|--------|-------|-------|---|---|-----|------|-------|--------|------|

## Test Graphs

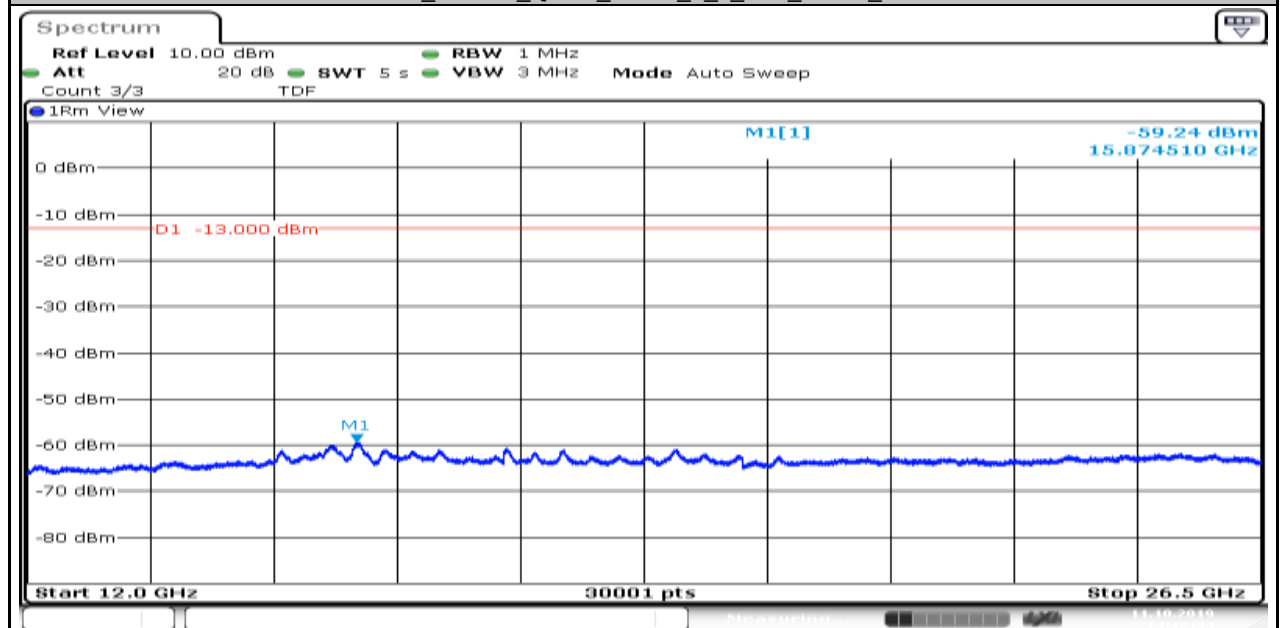


Band26\_1.4MHz\_QPSK\_26697\_6\_0\_Low\_5000\_12000



Date: 11.OCT.2019 14:12:18

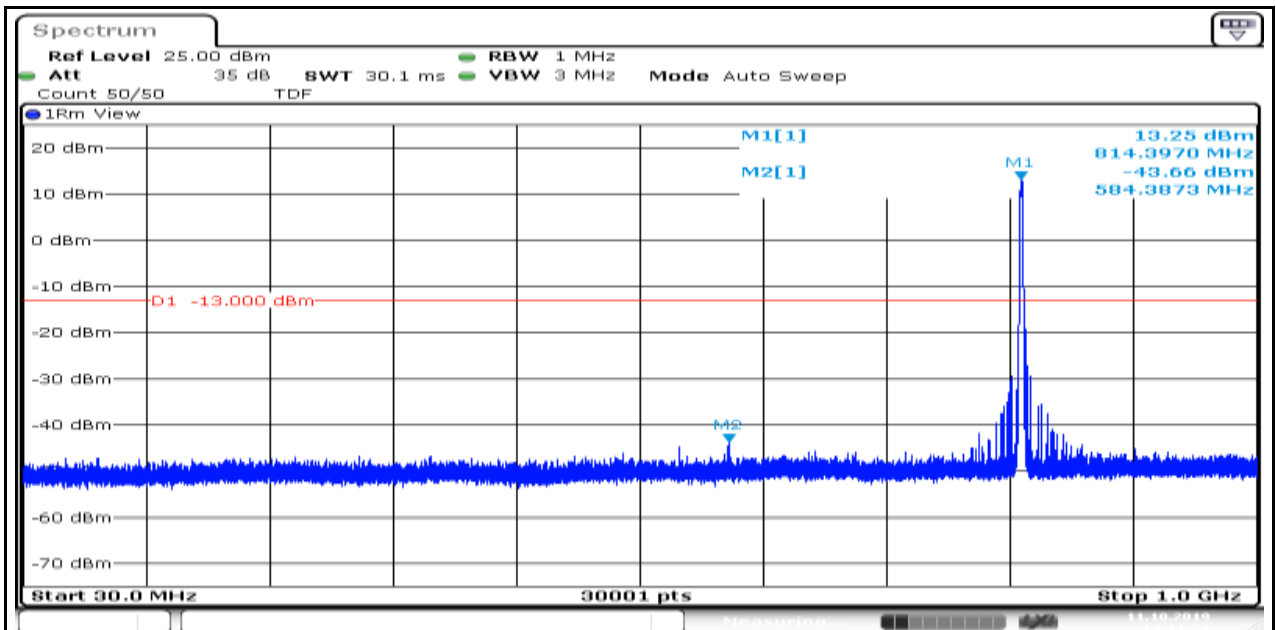
Band26\_1.4MHz\_QPSK\_26697\_6\_0\_Low\_12000\_26500



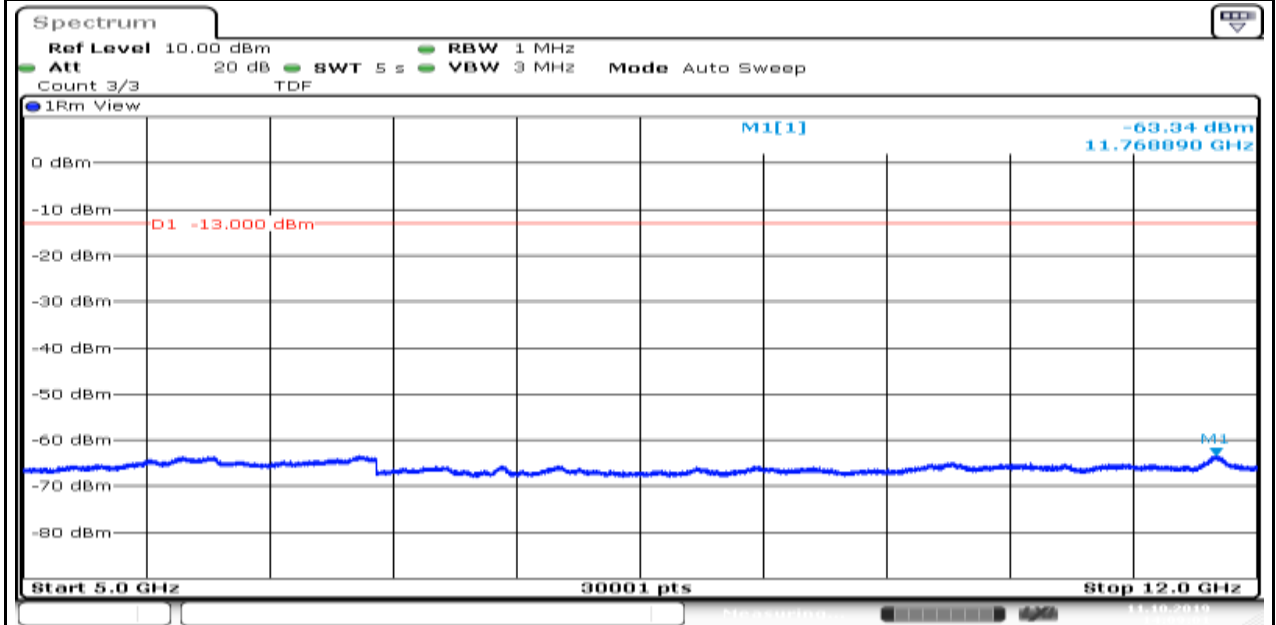
Date: 11.OCT.2019 14:12:44

Band26\_1.4MHz\_QPSK\_26697\_6\_0\_Low\_30\_1000

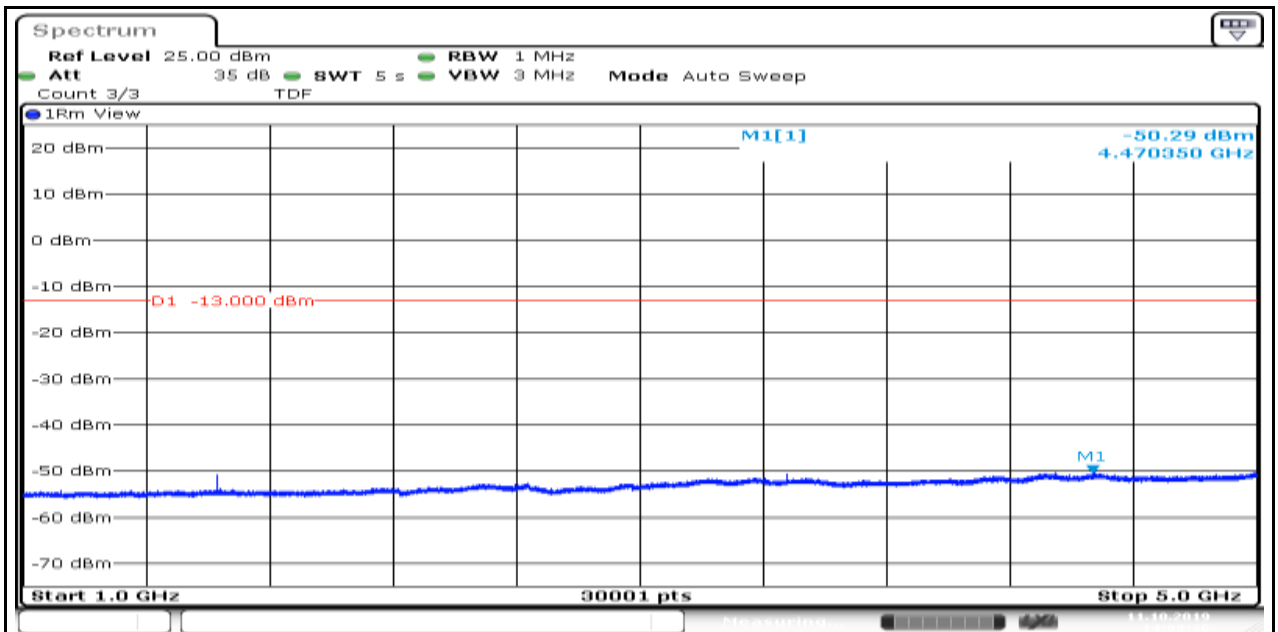
Produkte  
Products



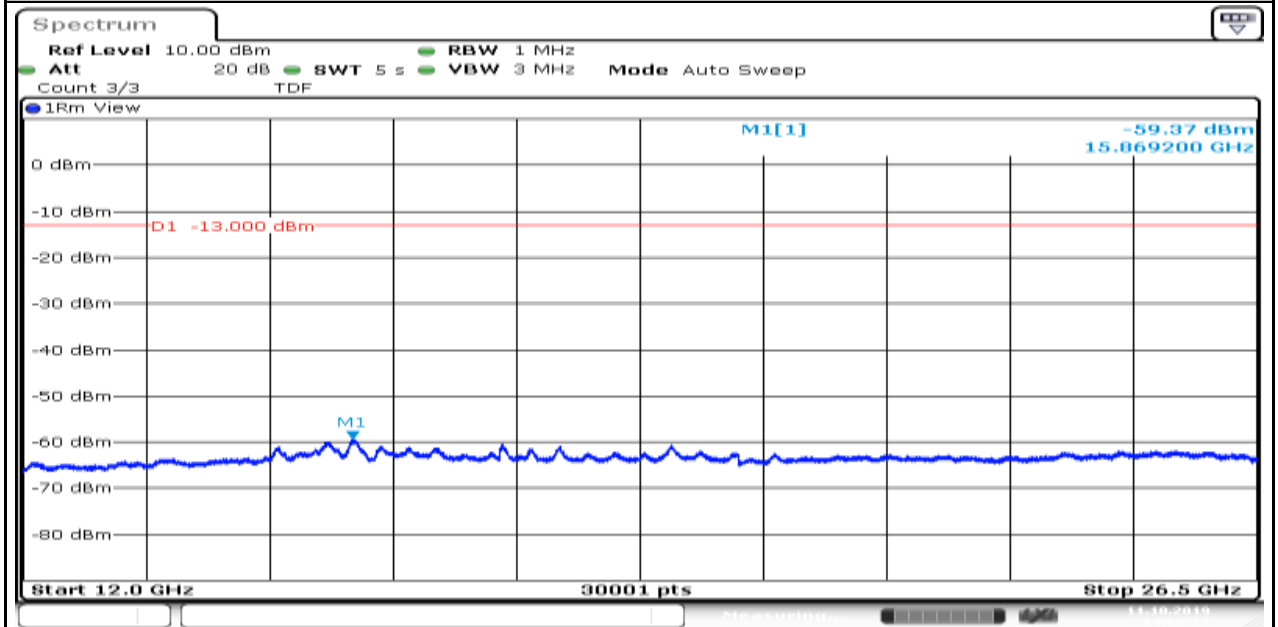
Band26\_1.4MHz\_QPSK\_26697\_1\_0\_Low\_5000\_12000



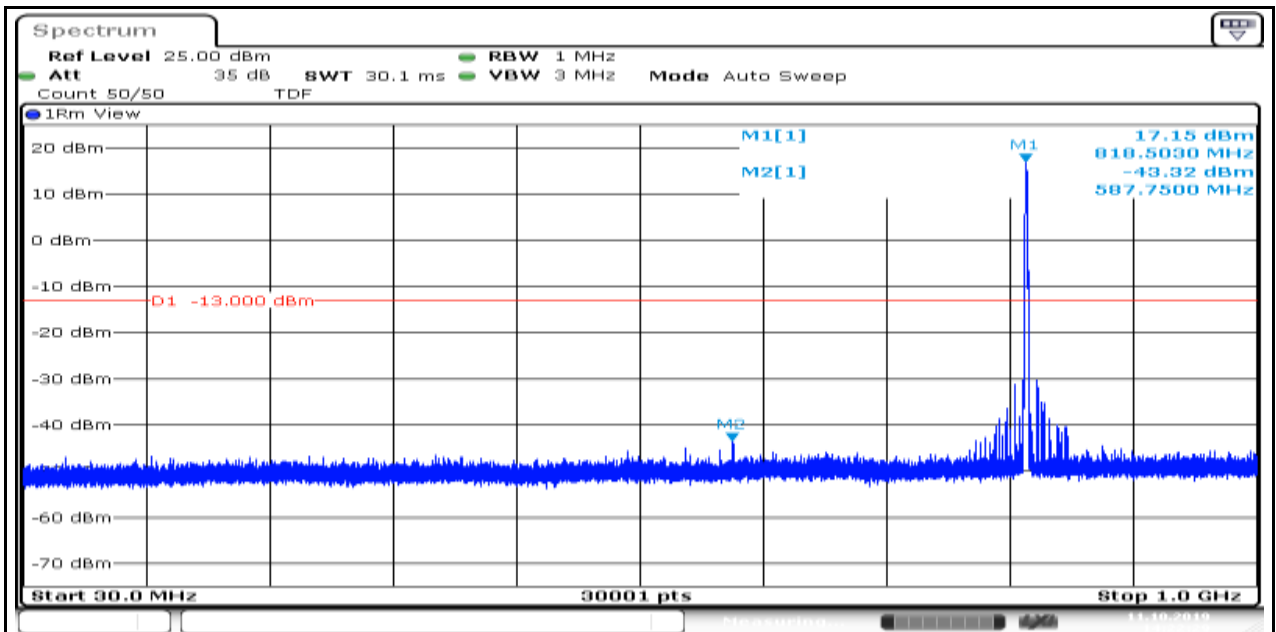
Band26\_1.4MHz\_QPSK\_26697\_1\_0\_Low\_1000\_5000



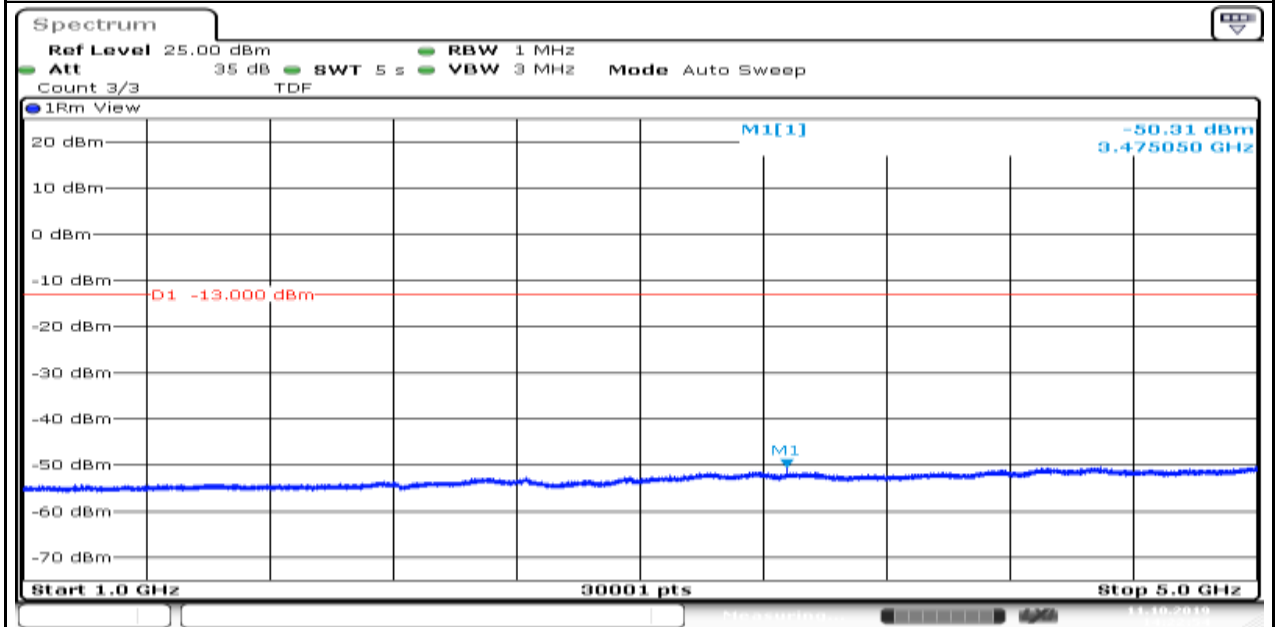
Band26\_1.4MHz\_QPSK\_26697\_1\_0\_Low\_12000\_26500



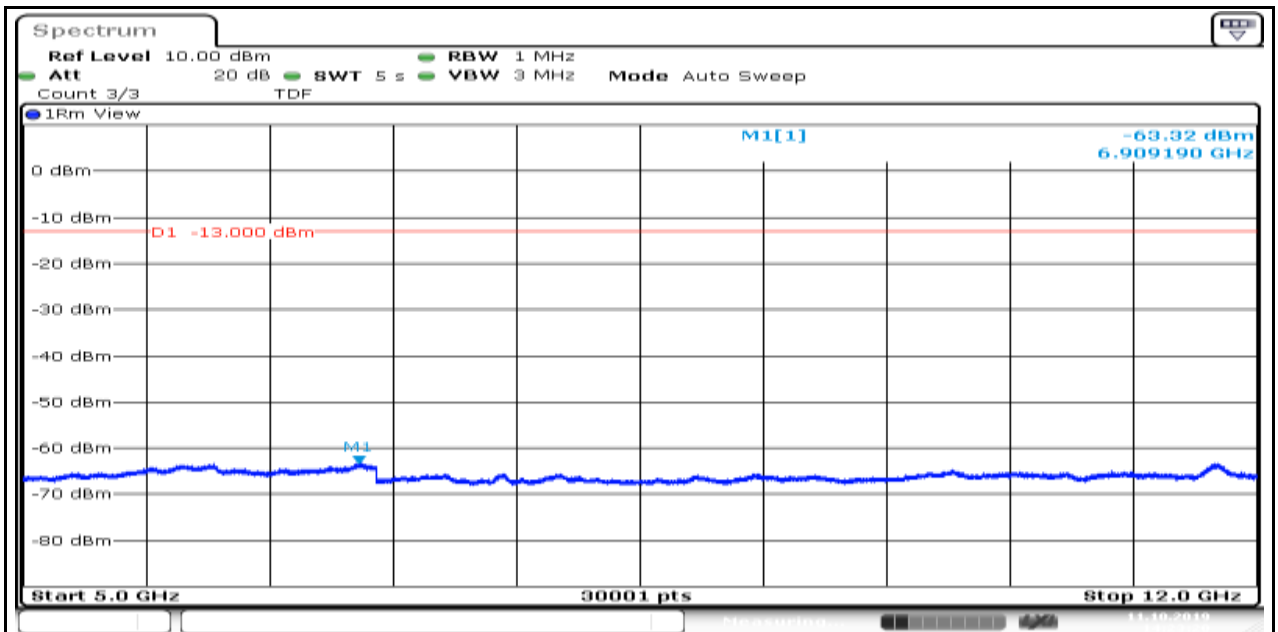
Band26\_1.4MHz\_QPSK\_26740\_1\_0\_Low\_30\_1000



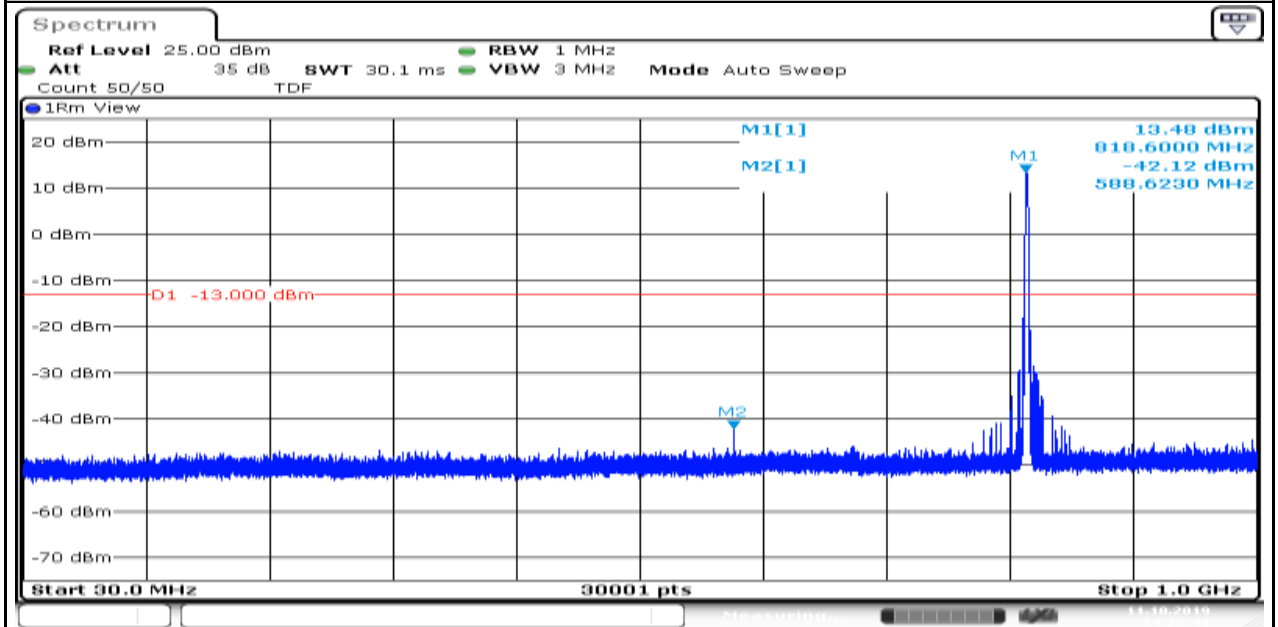
Band26\_1.4MHz\_QPSK\_26740\_1\_0\_Low\_1000\_5000



Band26\_1.4MHz\_QPSK\_26740\_1\_0\_Low\_5000\_12000

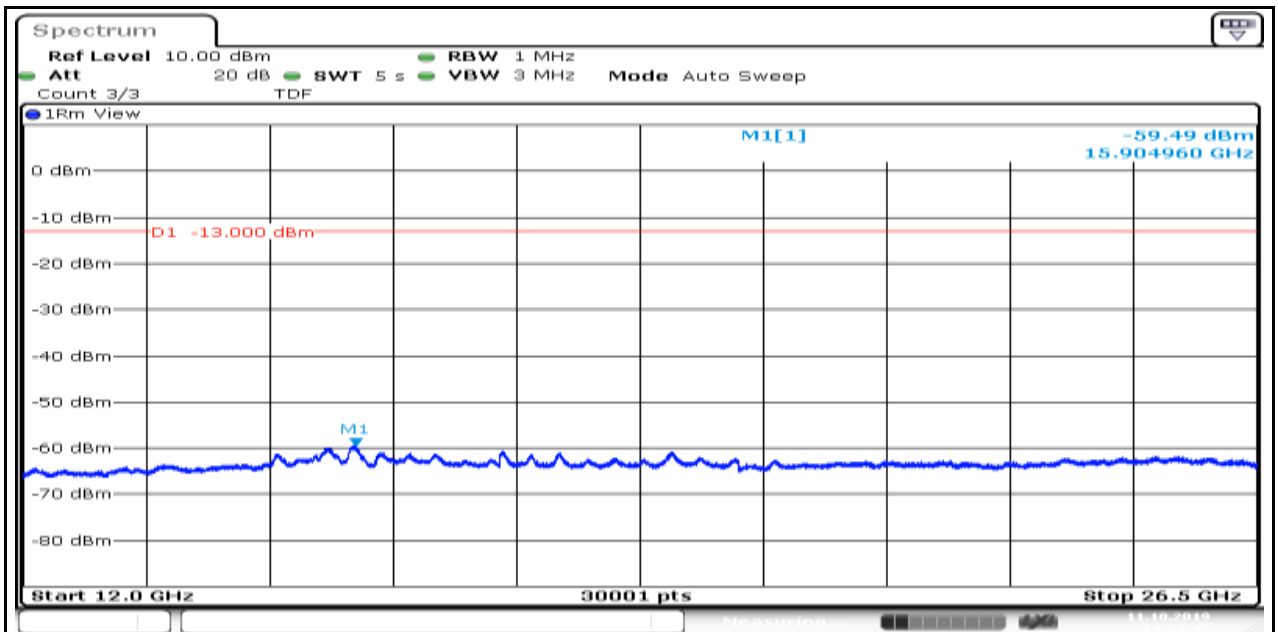


Band26\_1.4MHz\_QPSK\_26740\_6\_0\_Low\_30\_1000



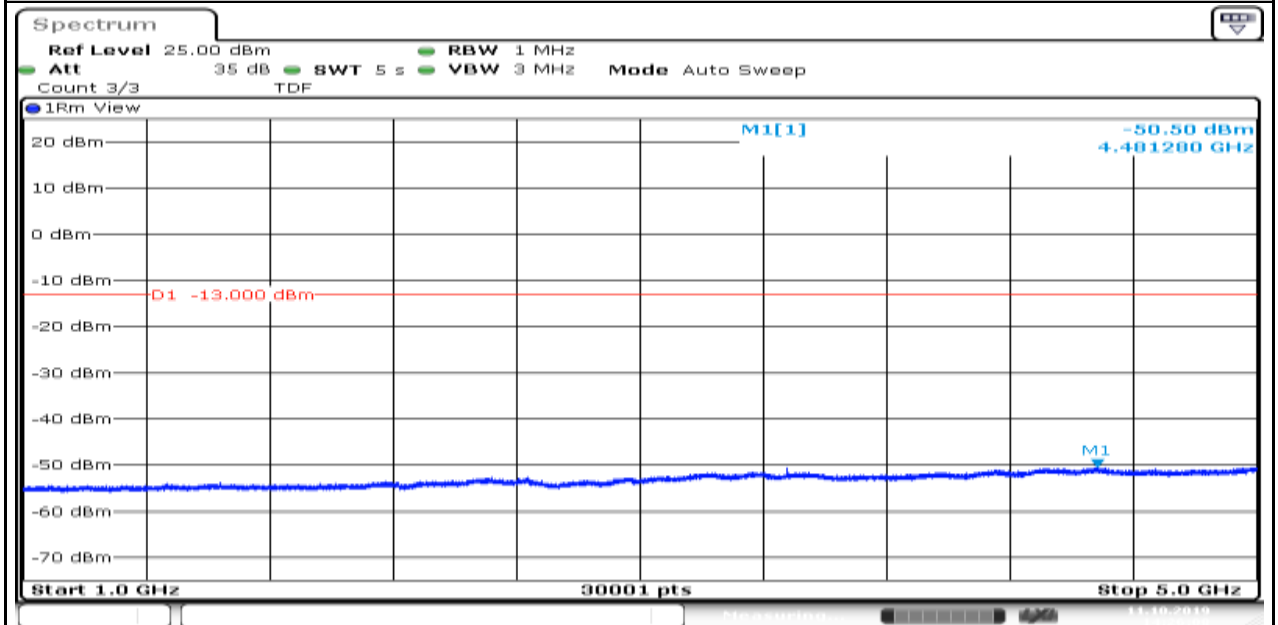
Band26\_1.4MHz\_QPSK\_26740\_1\_0\_Low\_12000\_26500

Produkte  
Products



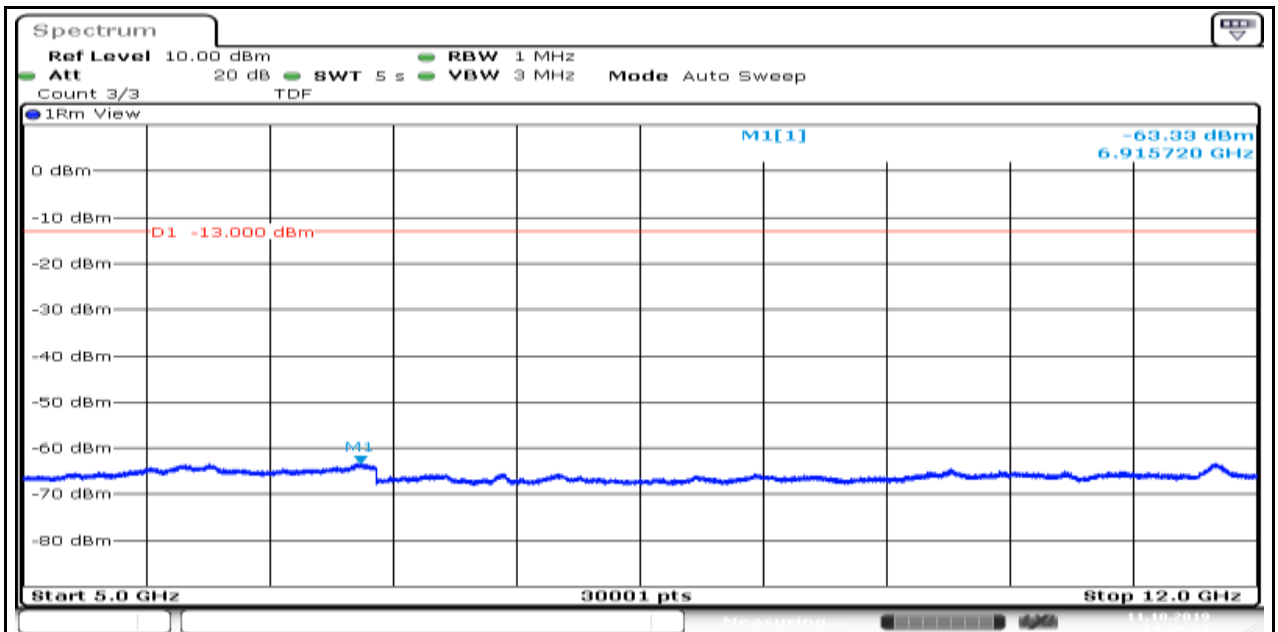
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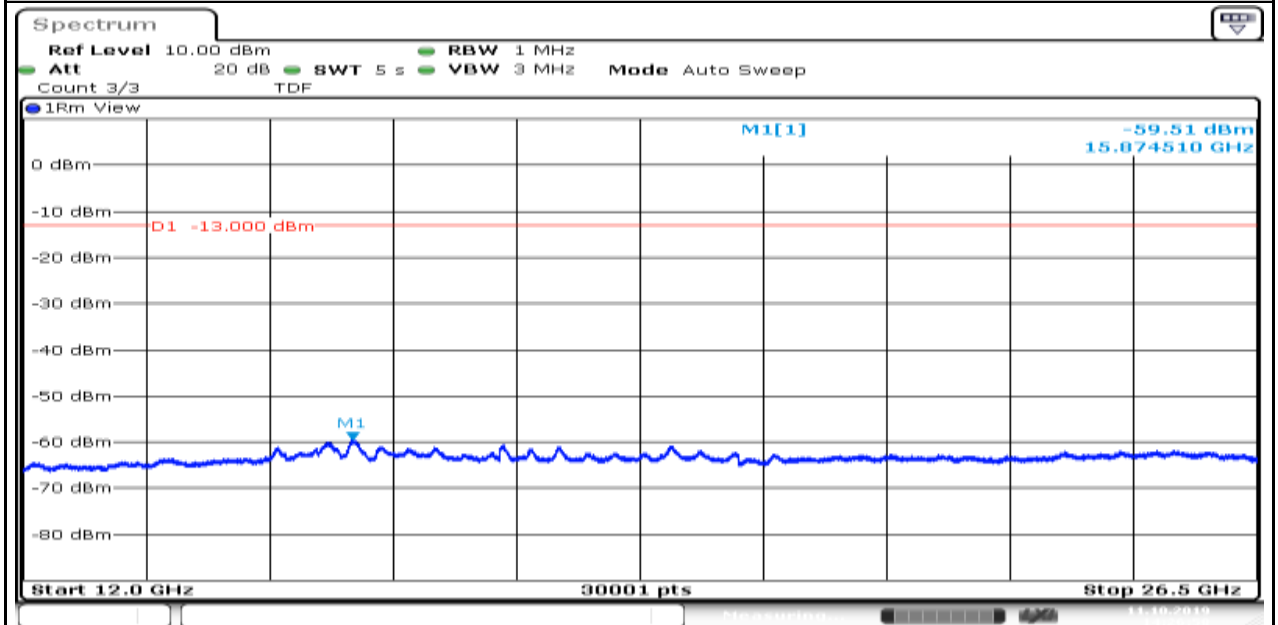
Date: 11.OCT.2019 14:26:08

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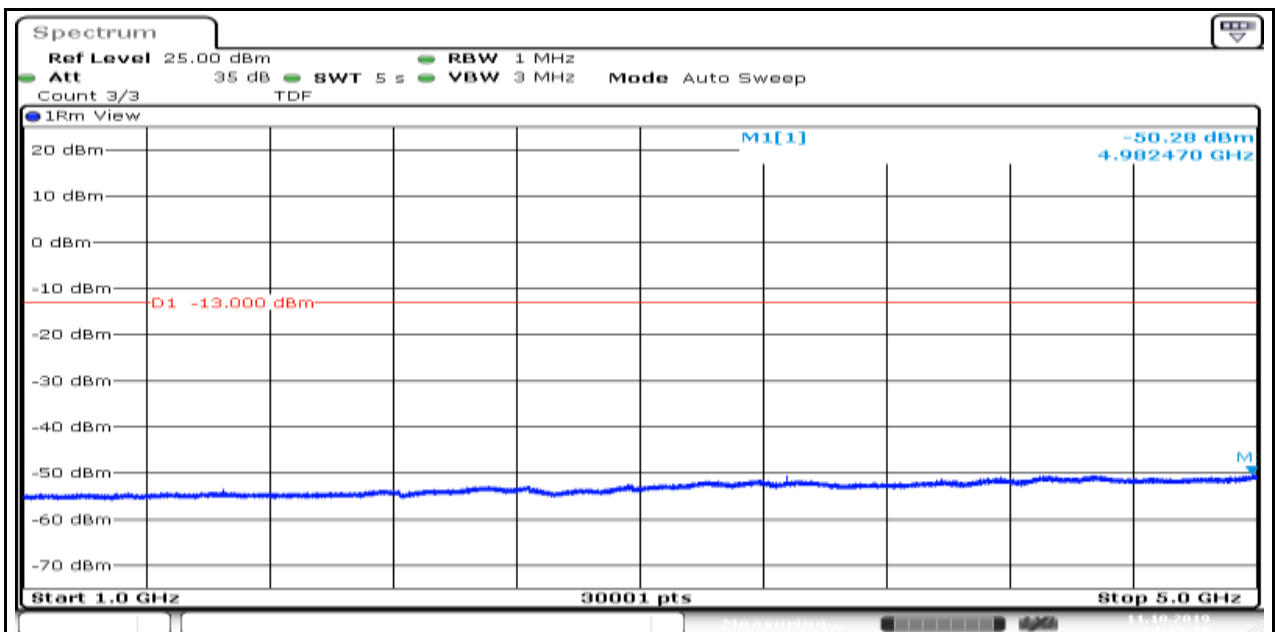
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Date: 11.OCT.2019 14:26:58

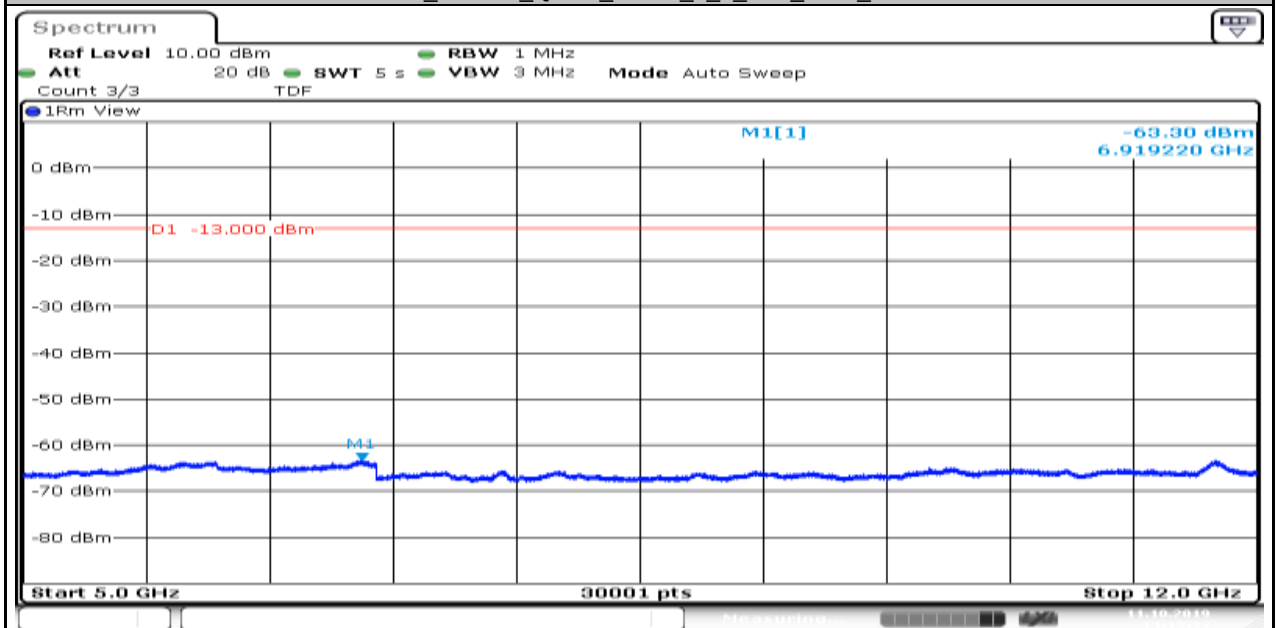
Band26\_1.4MHz\_QPSK\_26783\_6\_0\_Low\_1000\_5000

Produkte  
Products



Date: 11.OCT.2019 14:19:39

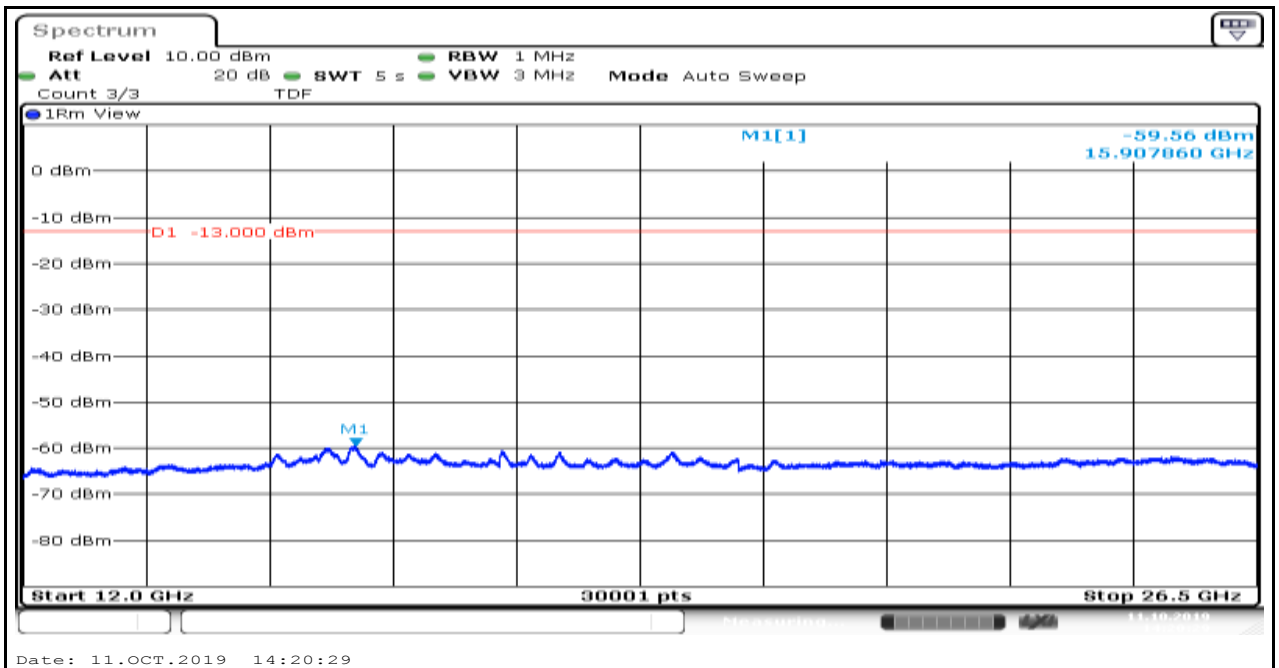
Band26\_1.4MHz\_QPSK\_26783\_1\_5\_Low\_5000\_12000



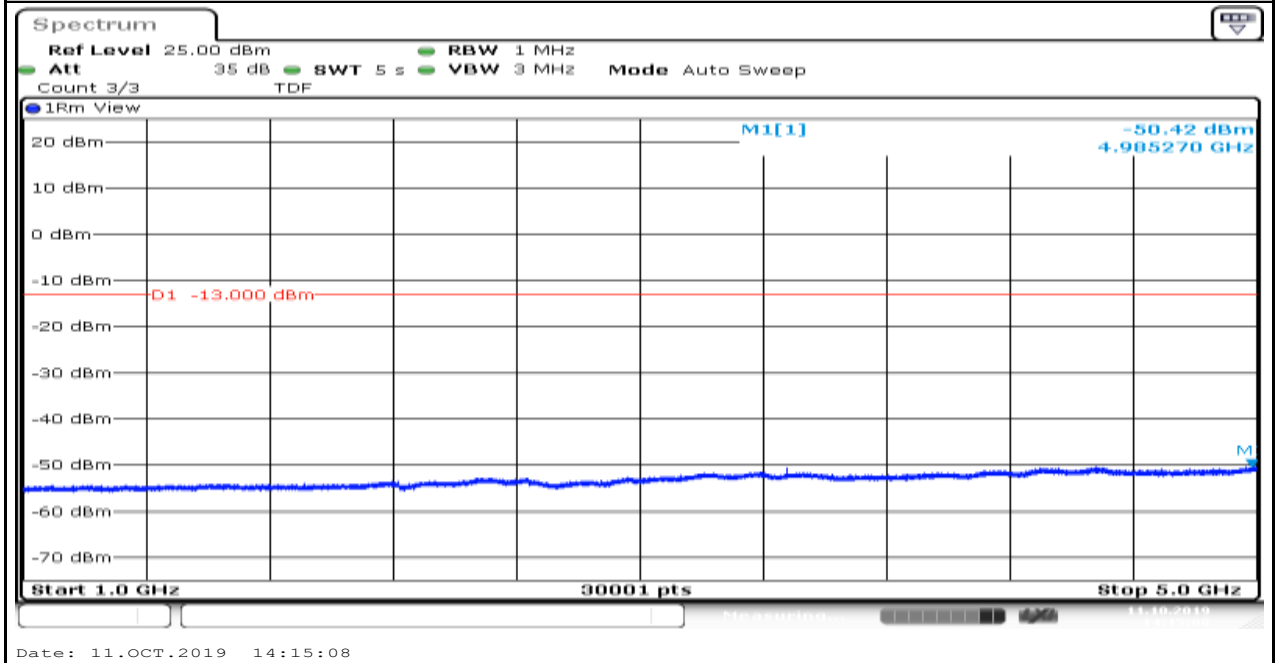
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Band26\_1.4MHz\_QPSK\_26783\_6\_0\_Low\_12000\_26500

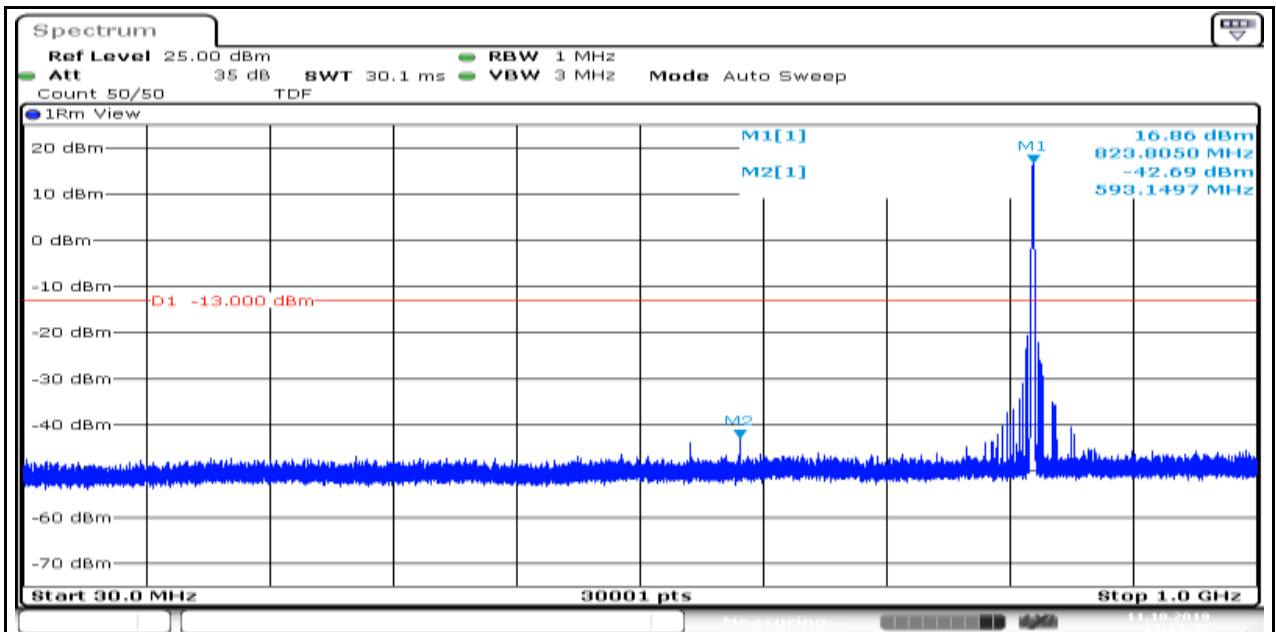
Produkte  
Products



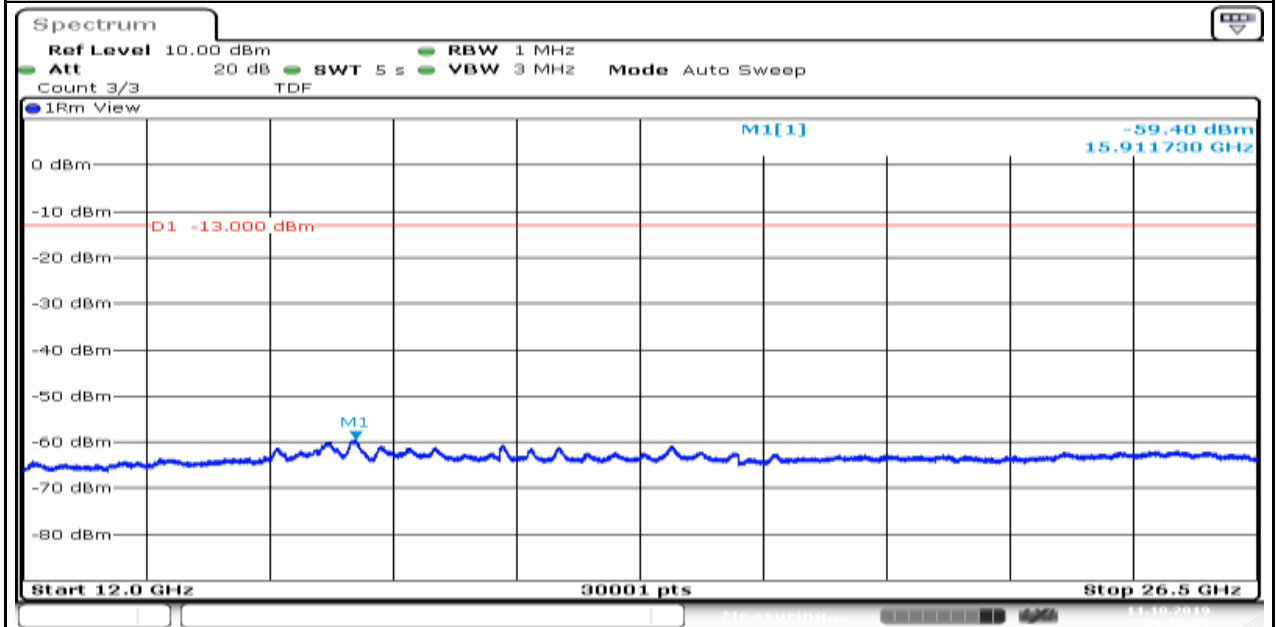
Band26\_1.4MHz\_QPSK\_26783\_1\_5\_Low\_1000\_5000



Band26\_1.4MHz\_QPSK\_26783\_1\_5\_Low\_30\_1000

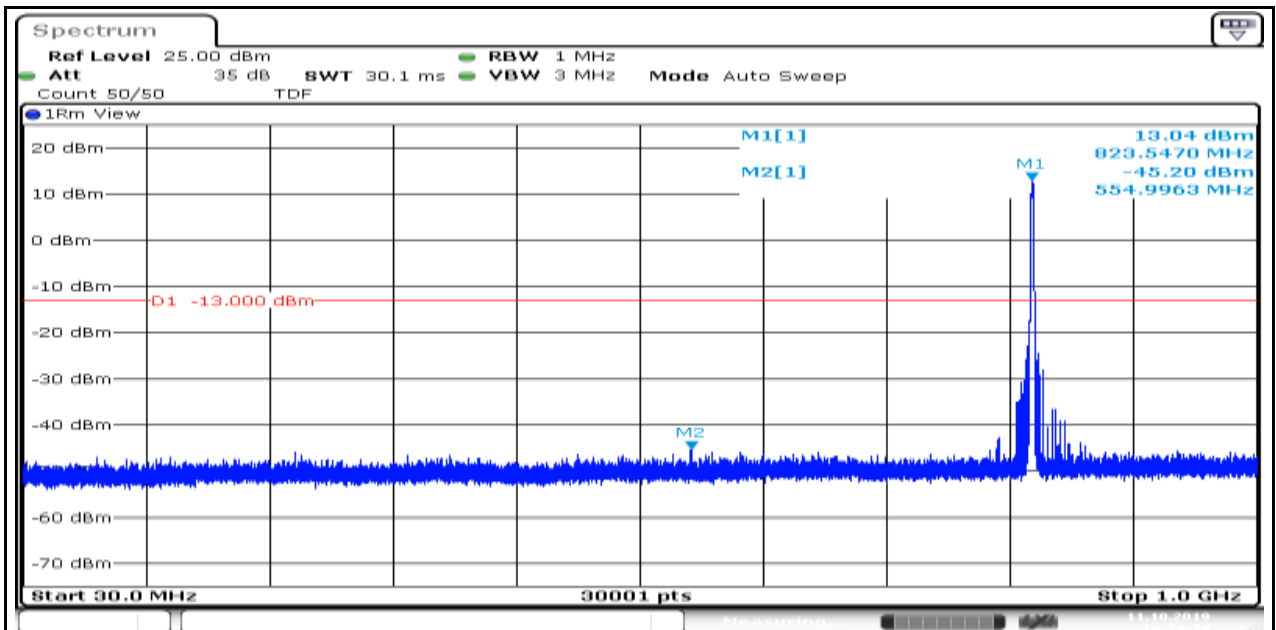


Band26\_1.4MHz\_QPSK\_26783\_1\_5\_Low\_12000\_26500



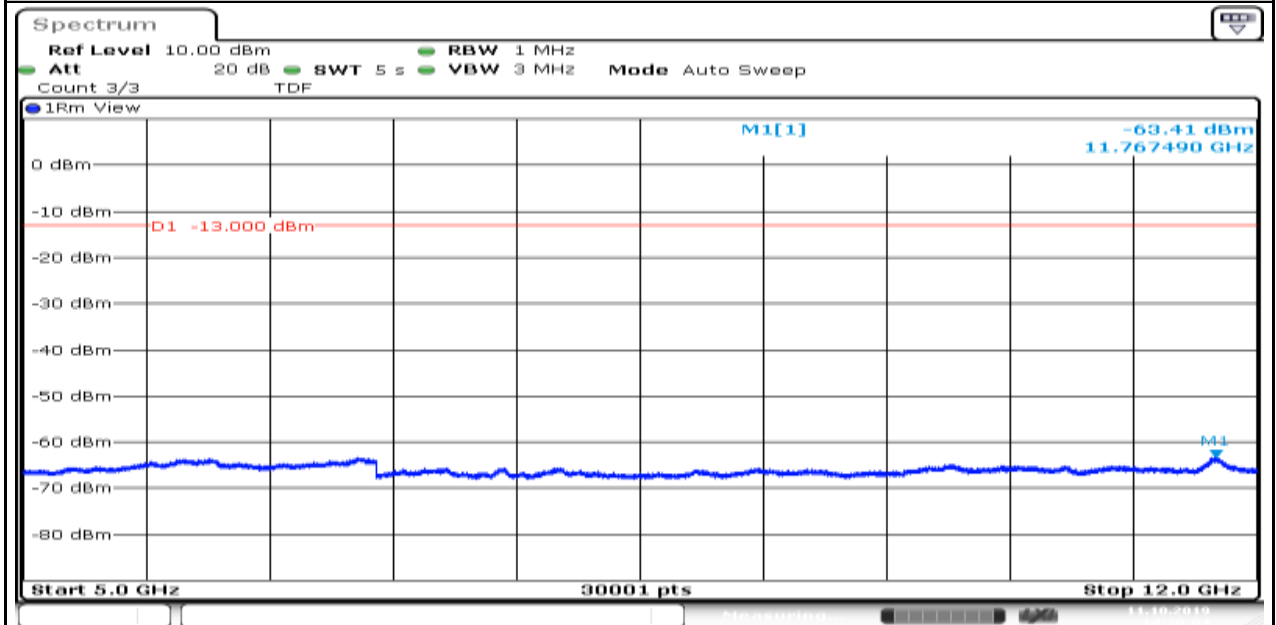
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Produkte  
Products



Date: 11.OCT.2019 14:19:14

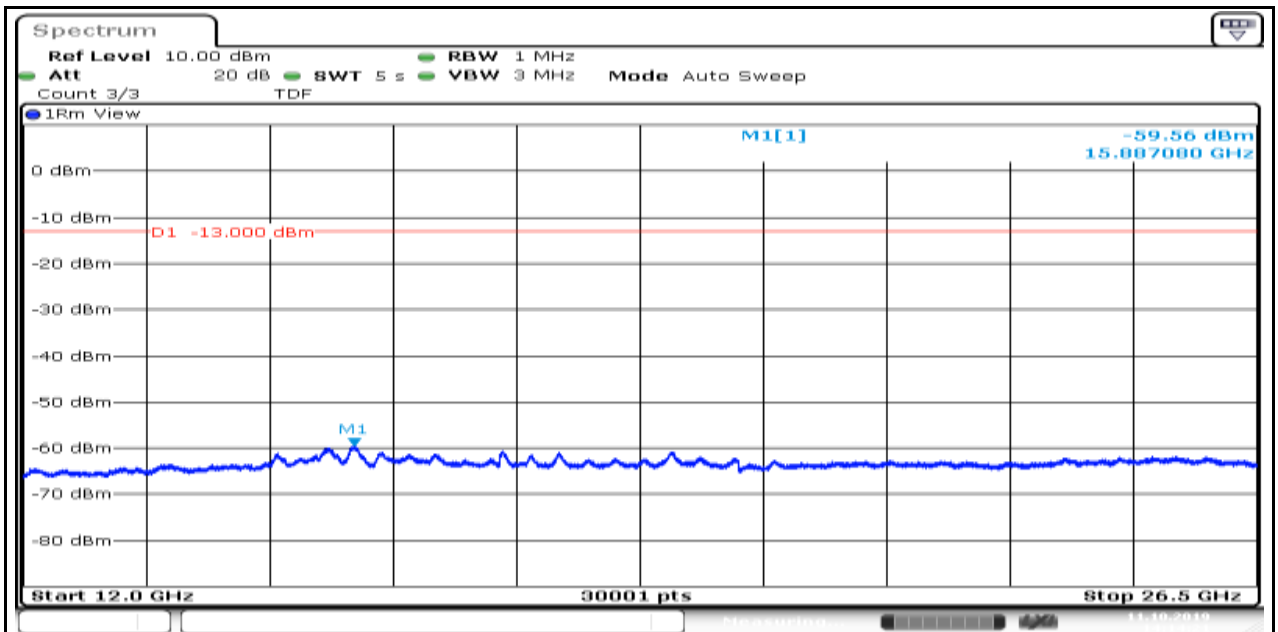
Band26\_1.4MHz\_QPSK\_26783\_6\_0\_Low\_5000\_12000



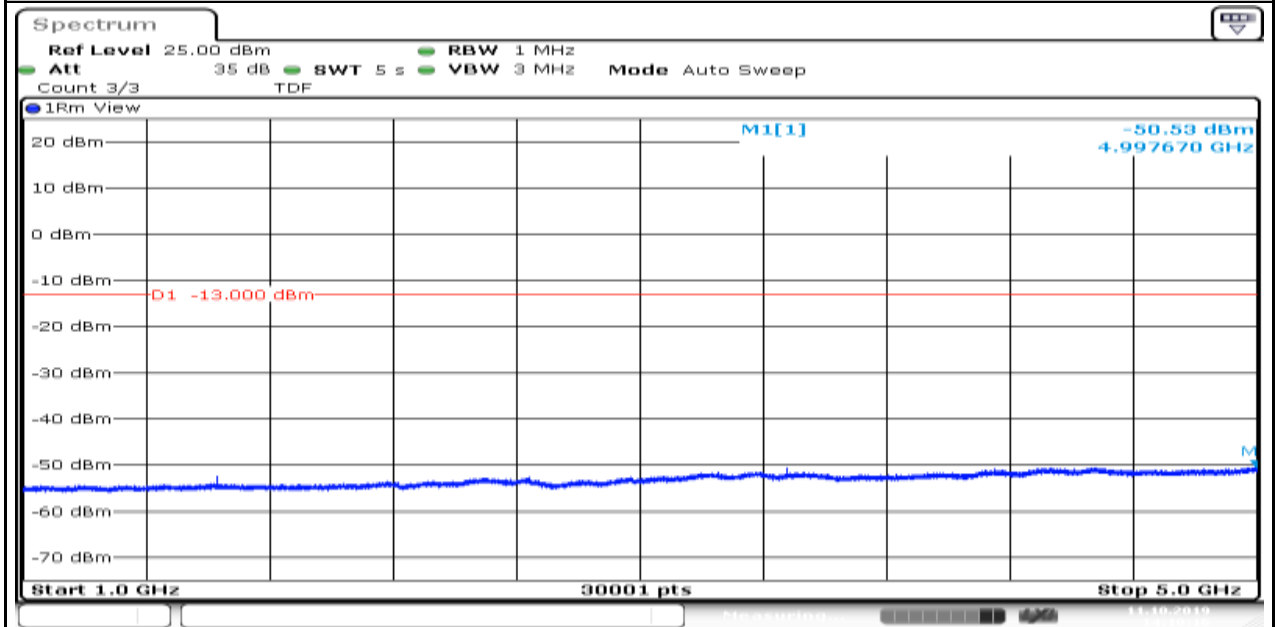
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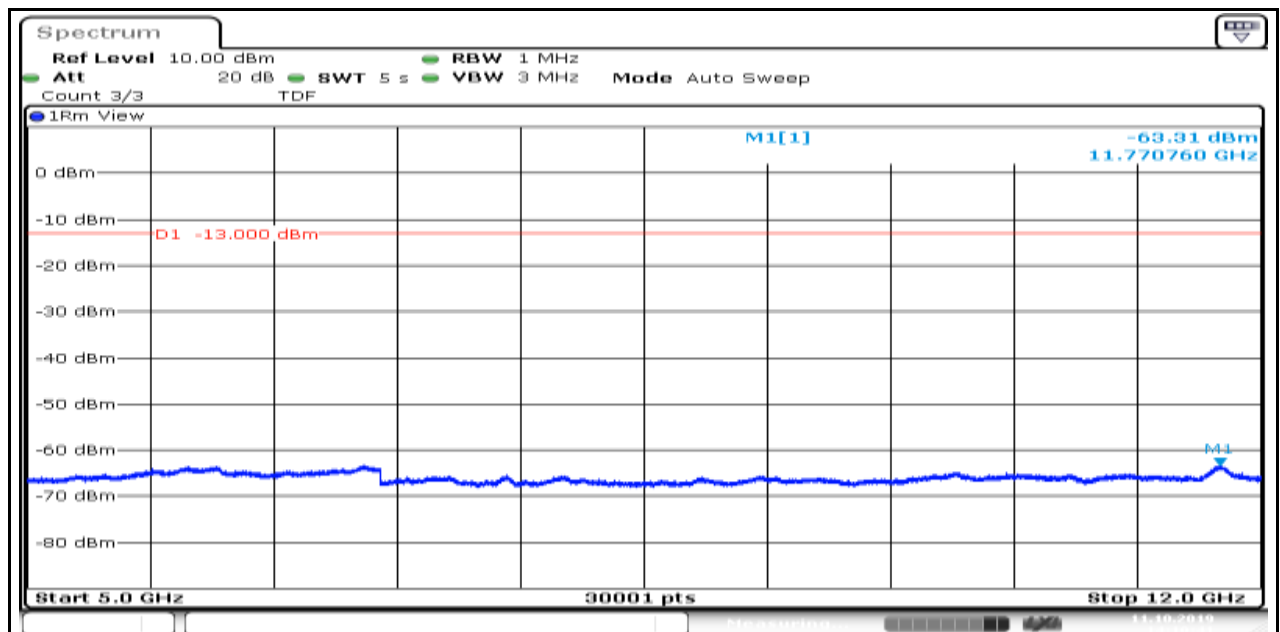
Produkte  
Products



Band26\_1.4MHz\_16QAM\_26697\_1\_0\_Low\_1000\_5000

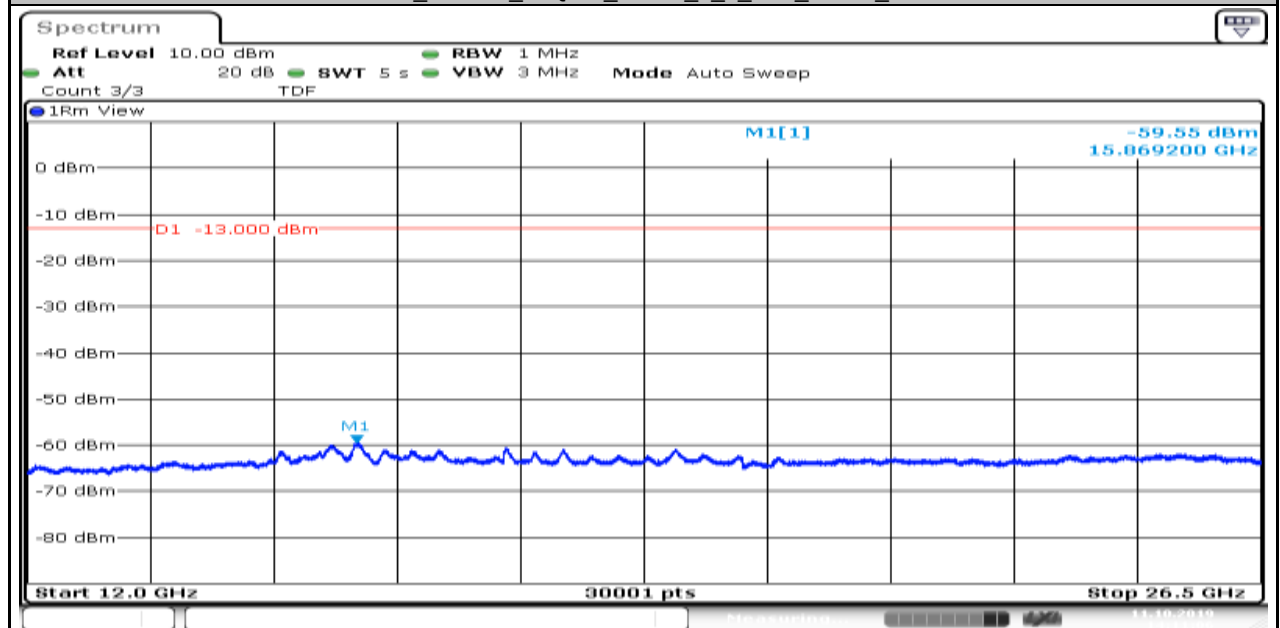


Band26\_1.4MHz\_16QAM\_26697\_1\_0\_Low\_5000\_12000



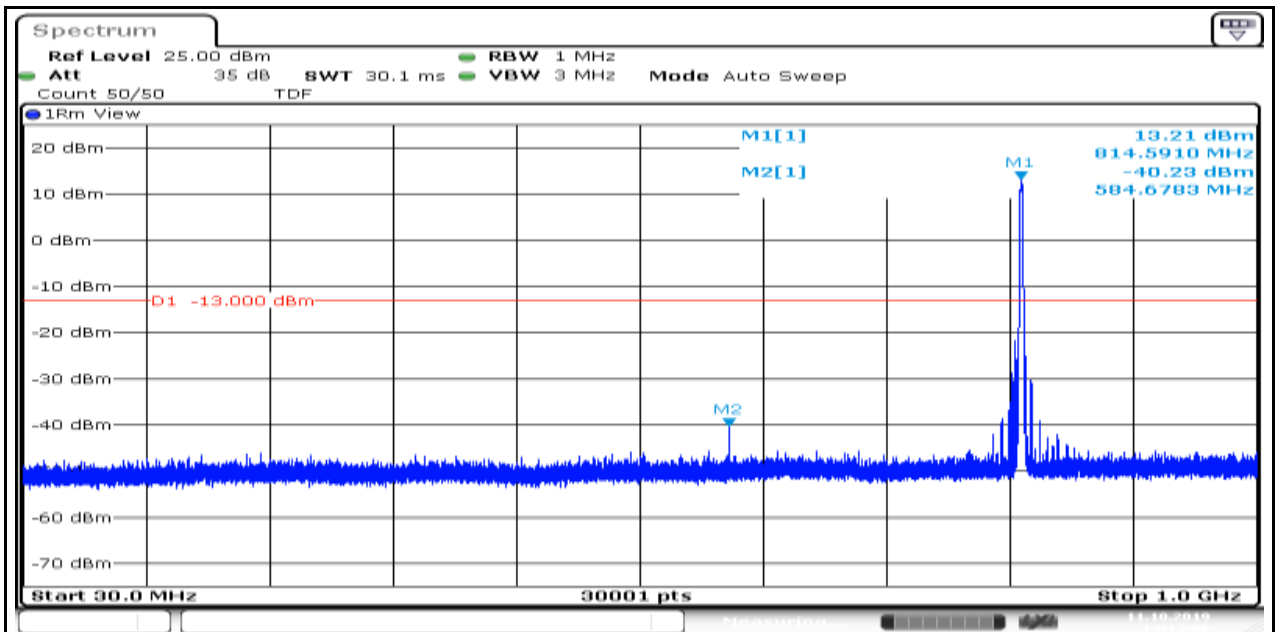
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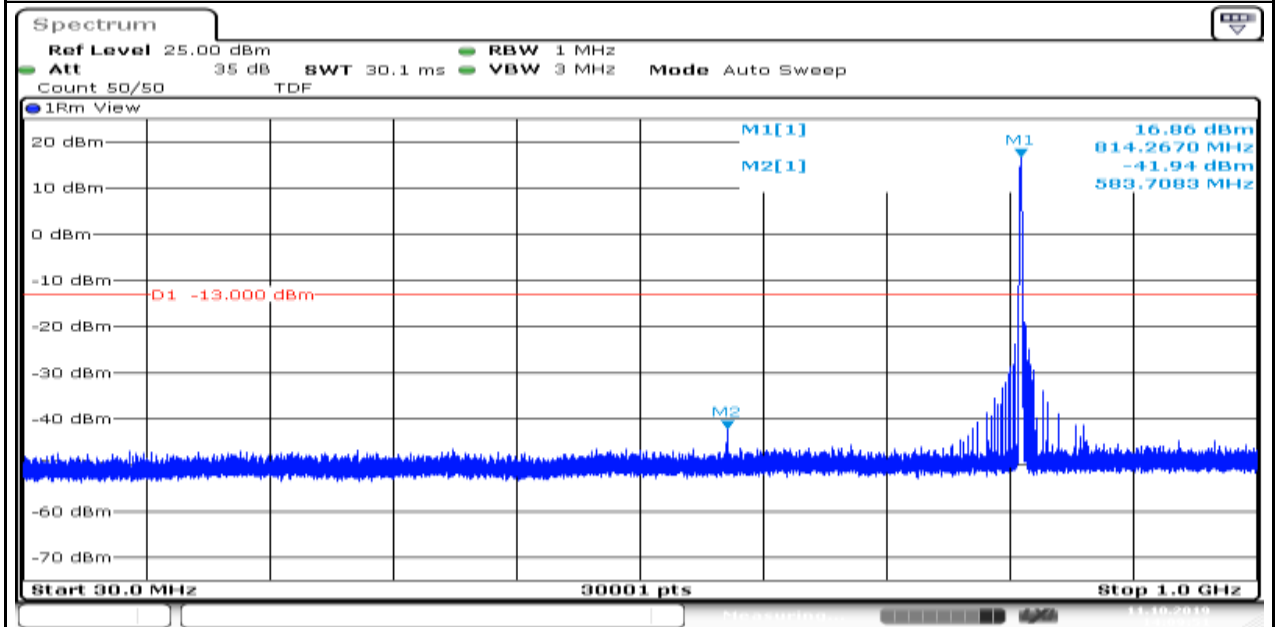


Date: 11.OCT.2019 14:11:06

Band26\_1.4MHz\_16QAM\_26697\_6\_0\_Low\_30\_1000

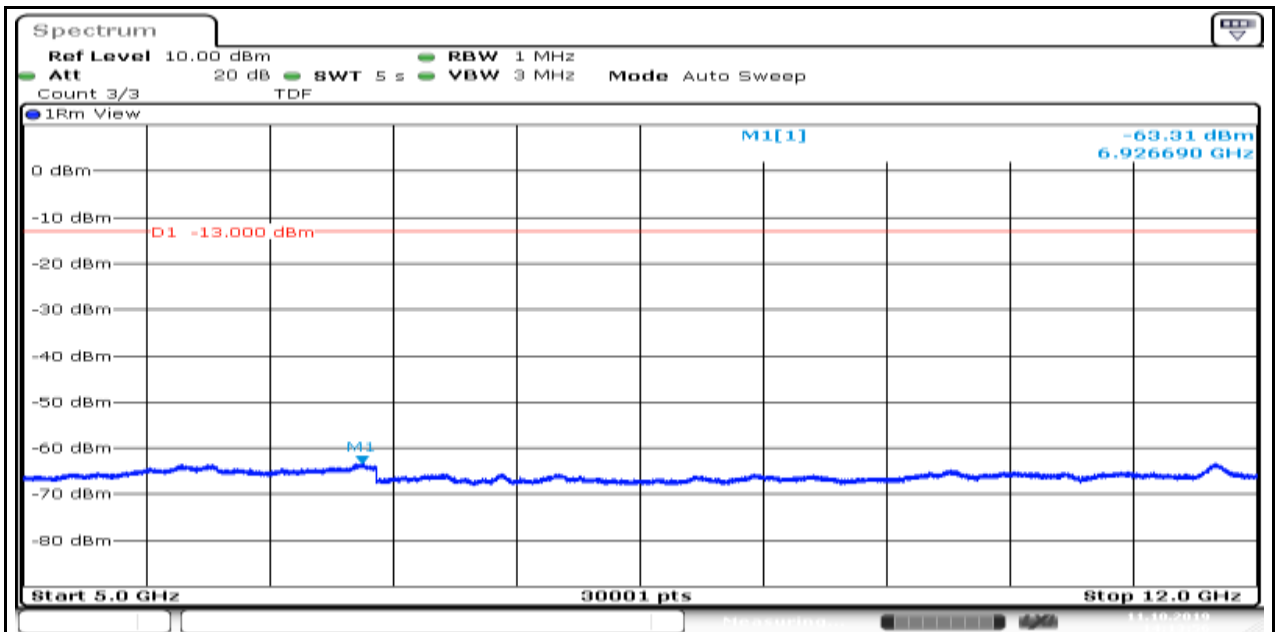


Band26\_1.4MHz\_16QAM\_26697\_1\_0\_Low\_30\_1000



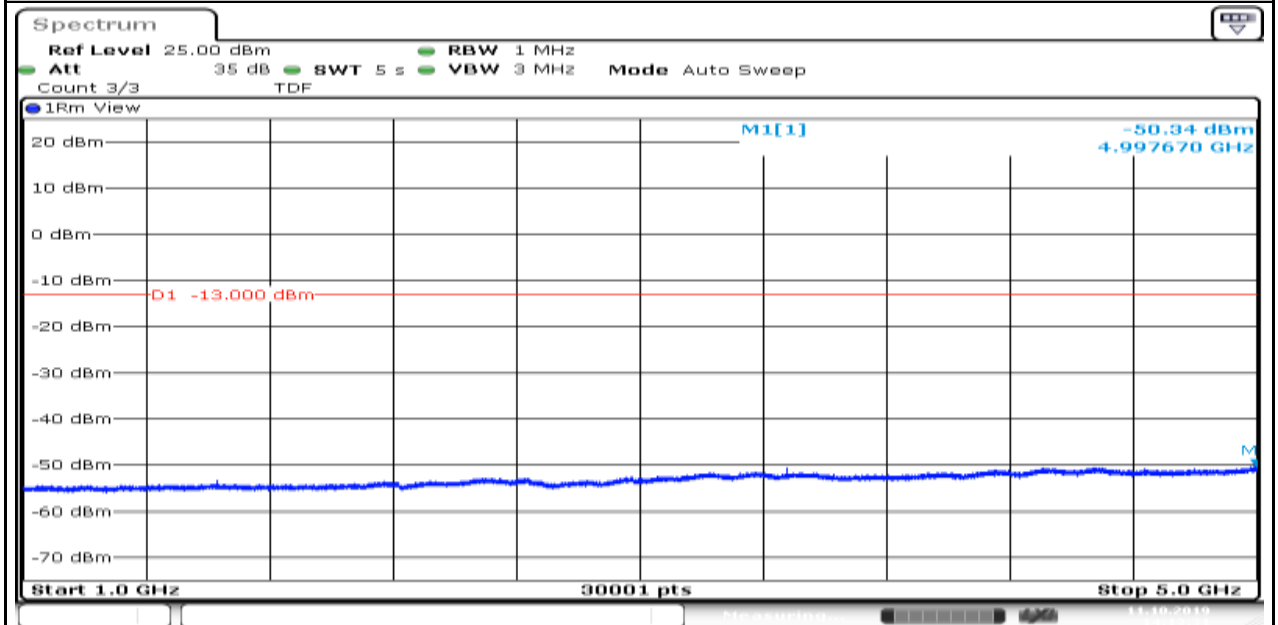
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Produkte  
Products



Date: 11.OCT.2019 14:13:56

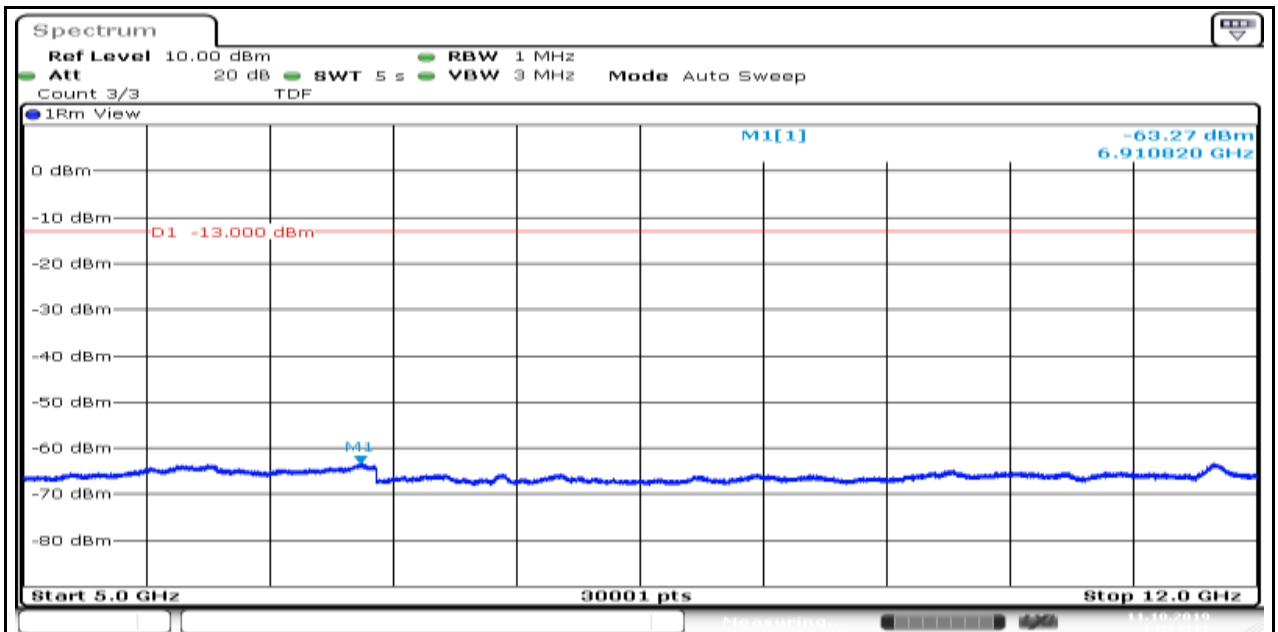
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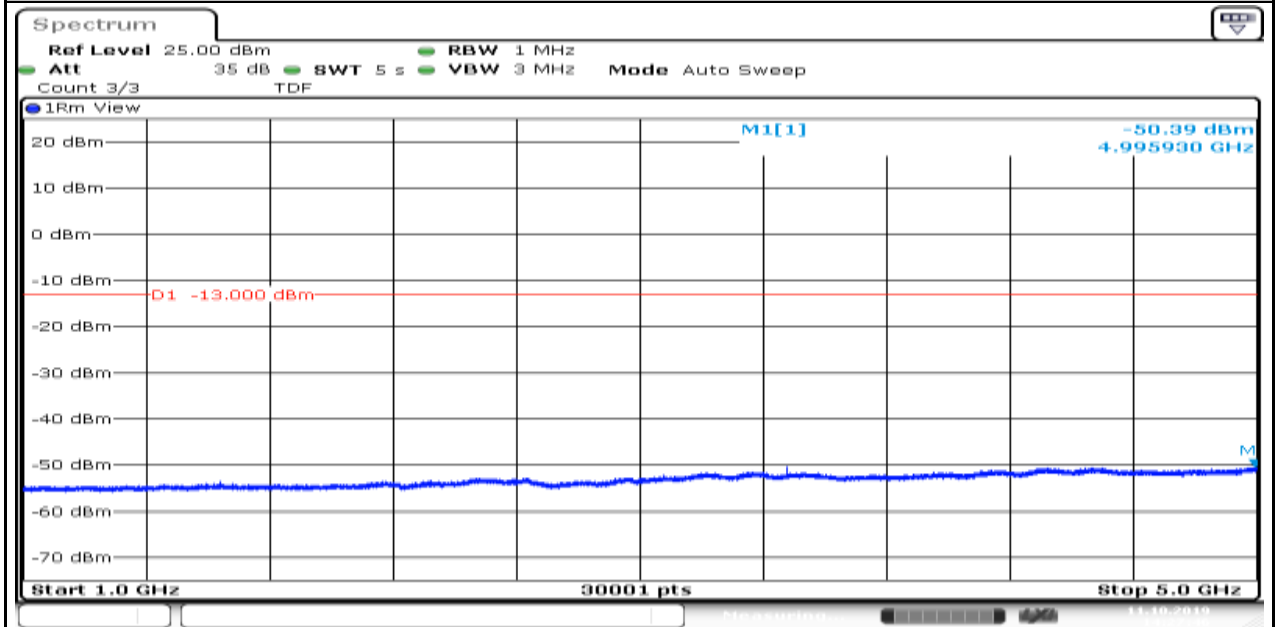
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Band26\_1.4MHz\_16QAM\_26740\_6\_0\_Low\_5000\_12000

Produkte  
Products

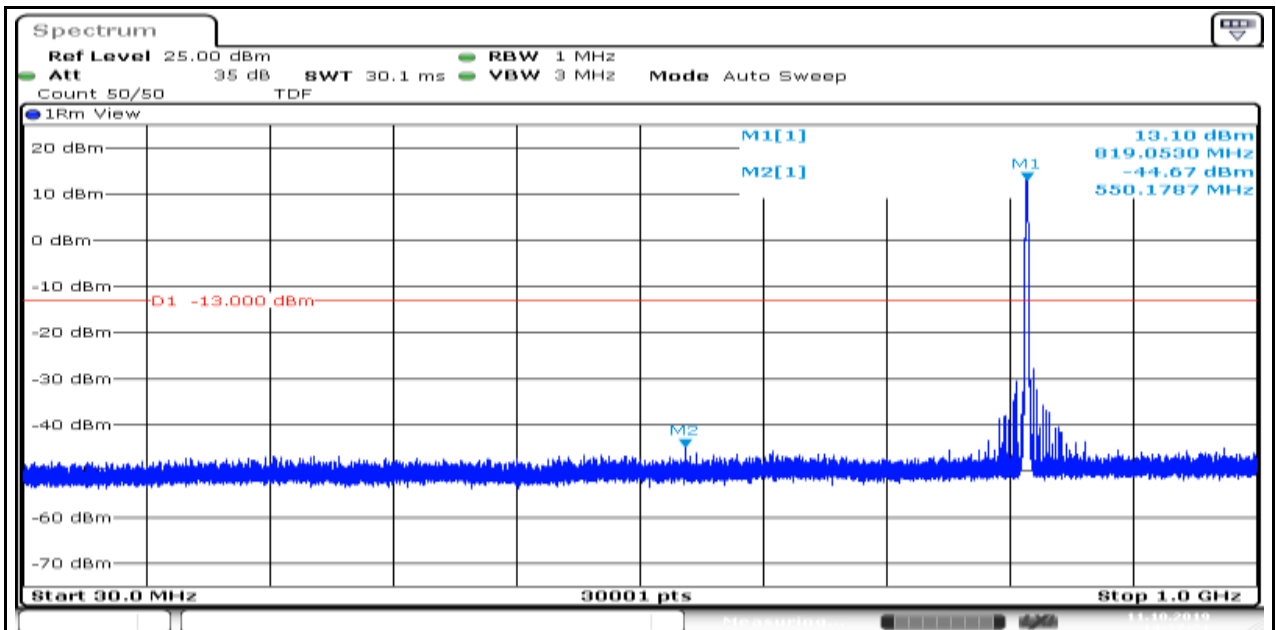


Band26\_1.4MHz\_16QAM\_26740\_6\_0\_Low\_1000\_5000

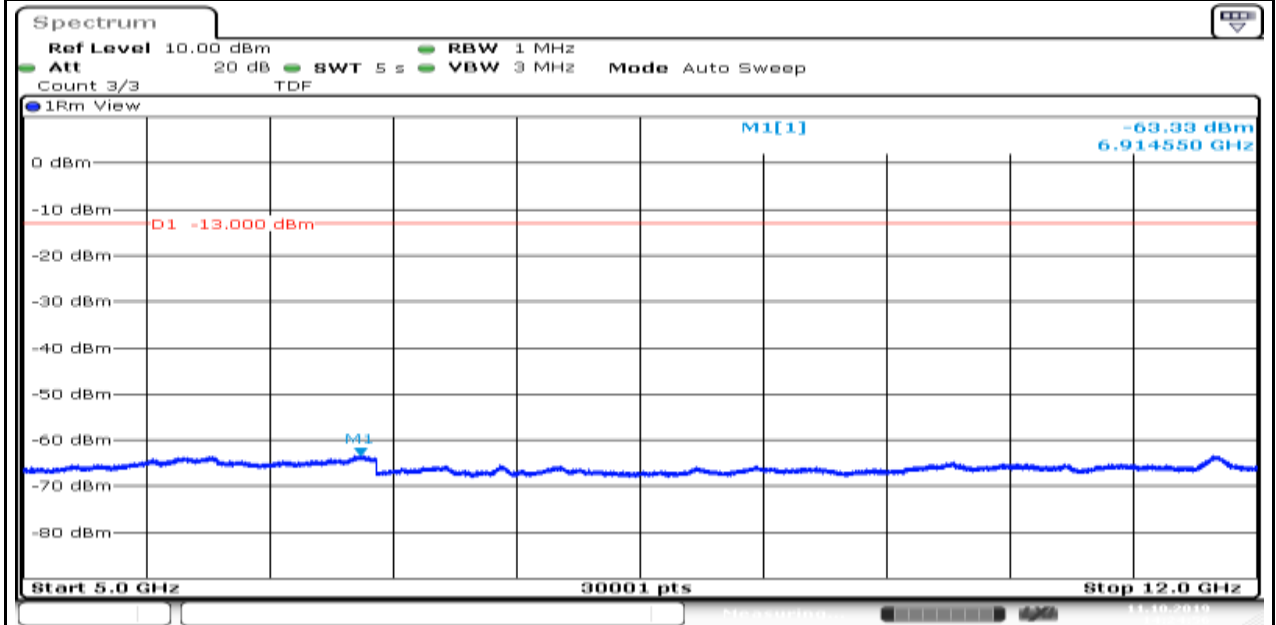


Band26\_1.4MHz\_16QAM\_26740\_6\_0\_Low\_30\_1000

Produkte  
Products

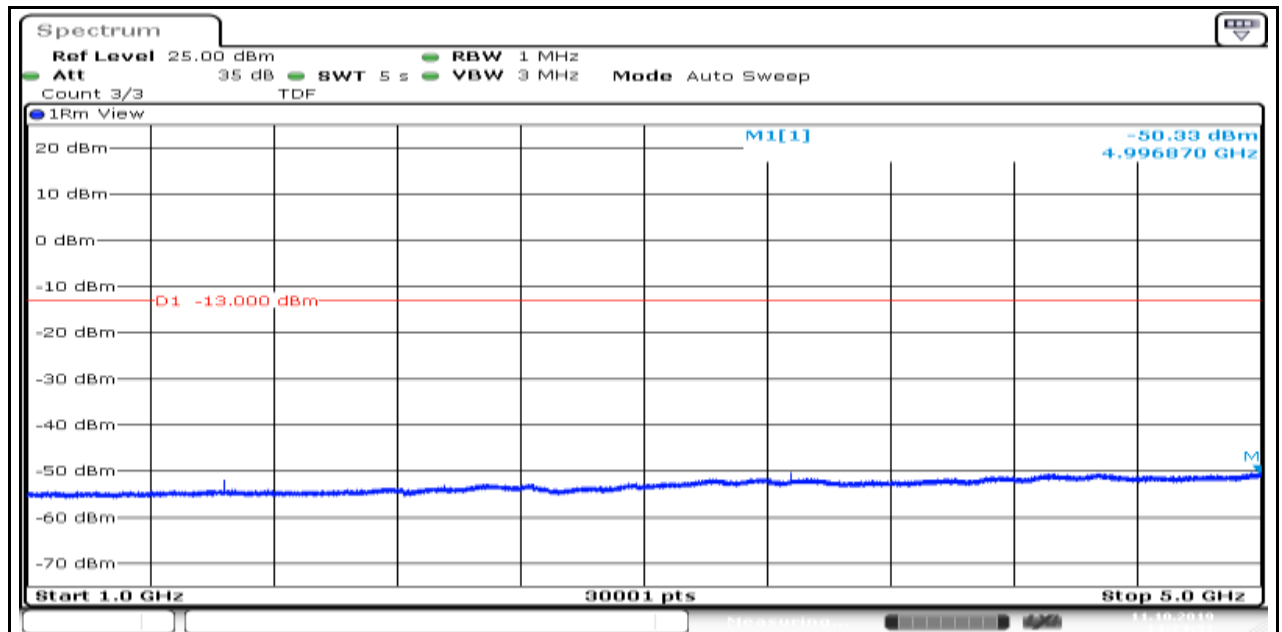


Band26\_1.4MHz\_16QAM\_26740\_1\_0\_Low\_5000\_12000

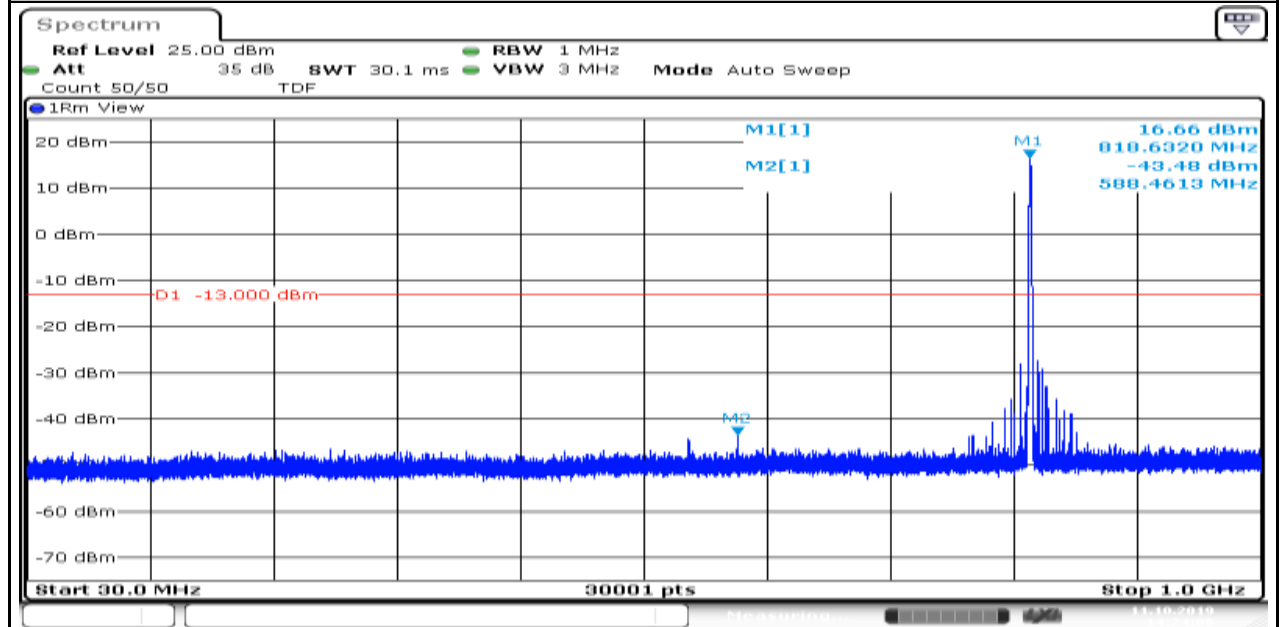


Band26\_1.4MHz\_16QAM\_26740\_1\_0\_Low\_1000\_5000

Produkte  
Products

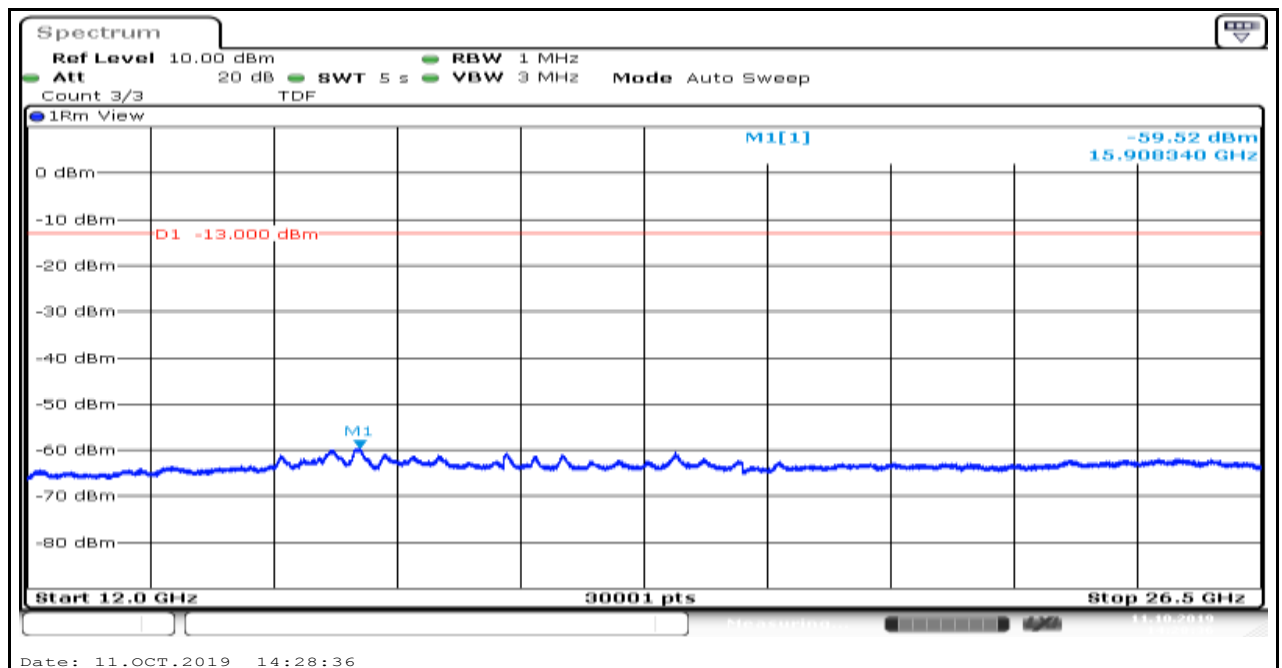


Band26\_1.4MHz\_16QAM\_26740\_1\_0\_Low\_30\_1000

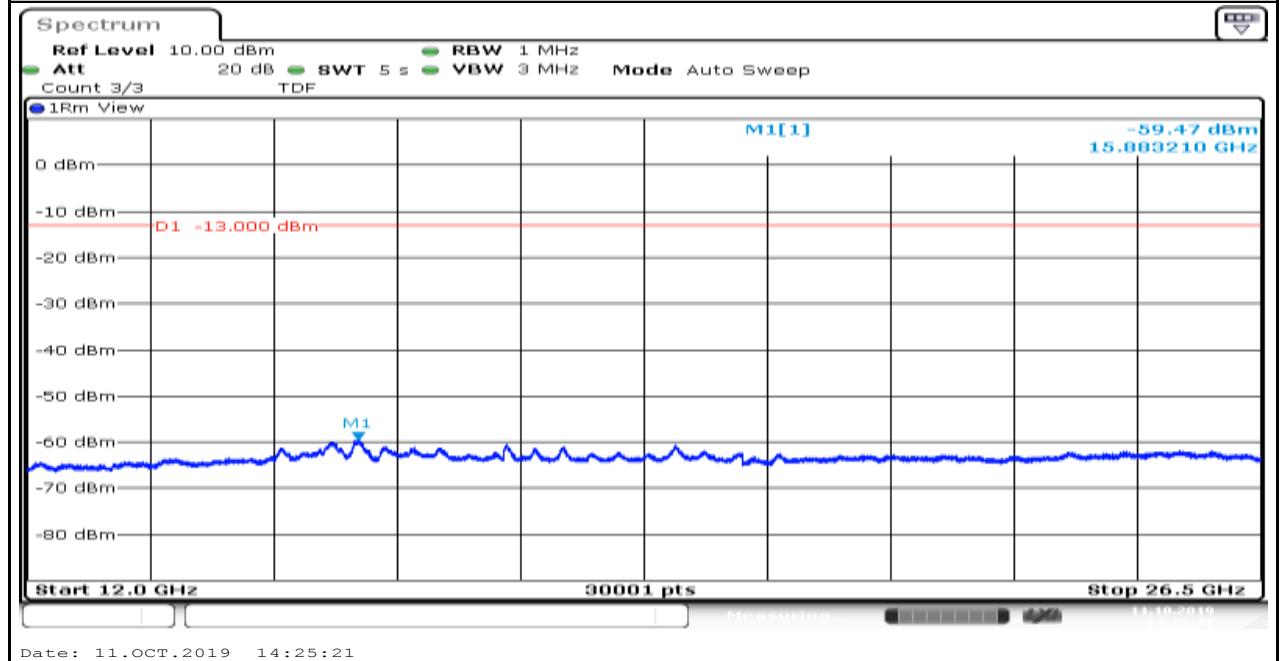


Band26\_1.4MHz\_16QAM\_26740\_6\_0\_Low\_12000\_26500

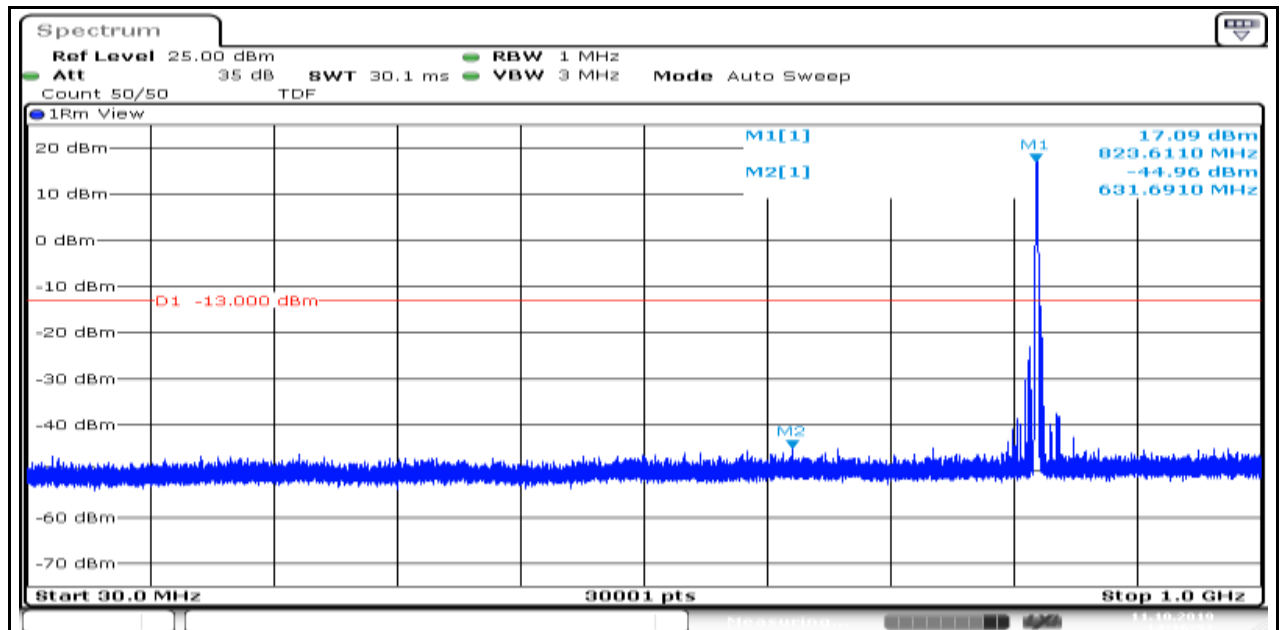
Produkte  
Products



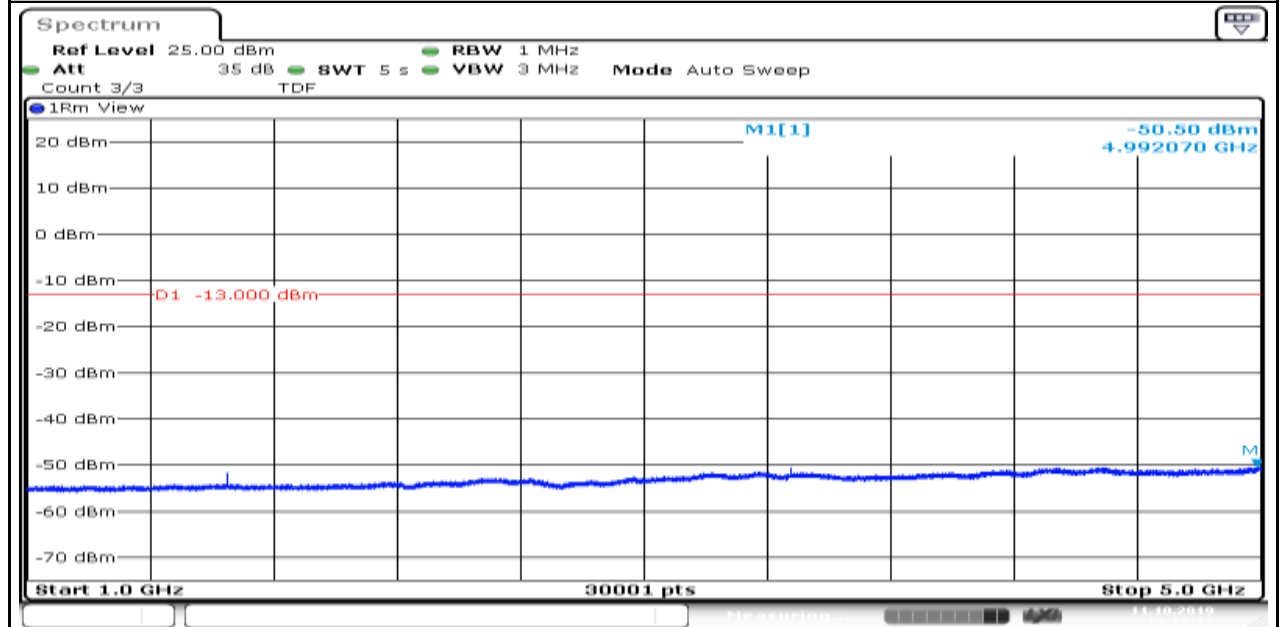
Band26\_1.4MHz\_16QAM\_26740\_1\_0\_Low\_12000\_26500



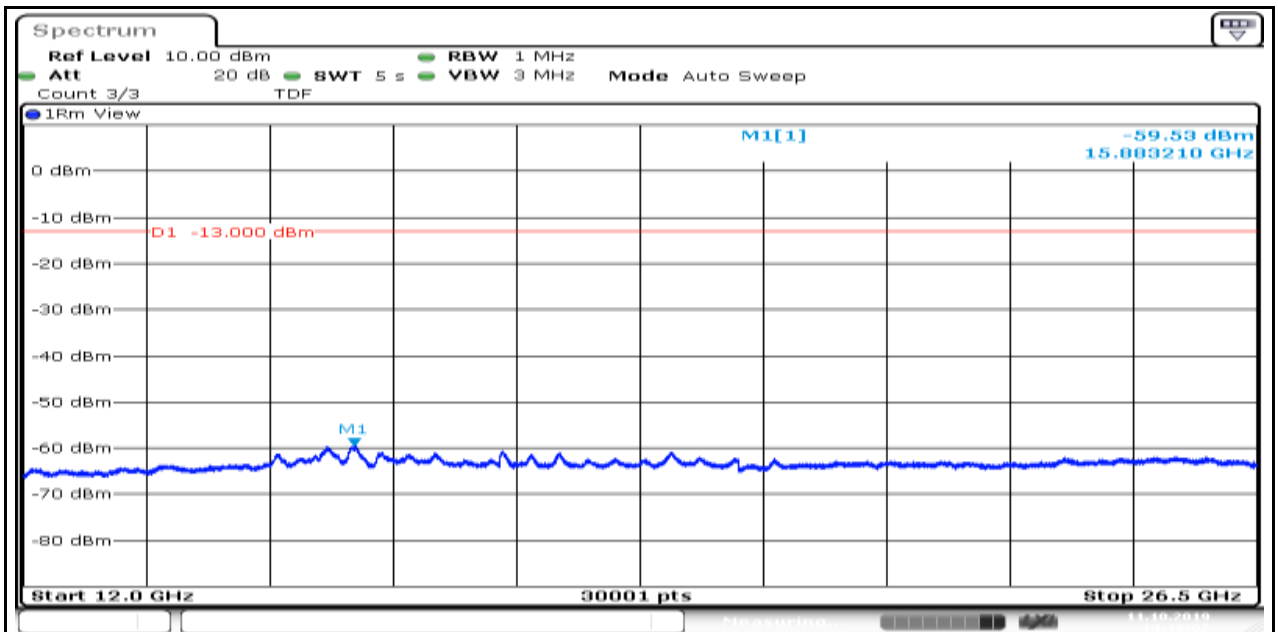
Band26\_1.4MHz\_16QAM\_26783\_1\_5\_Low\_30\_1000



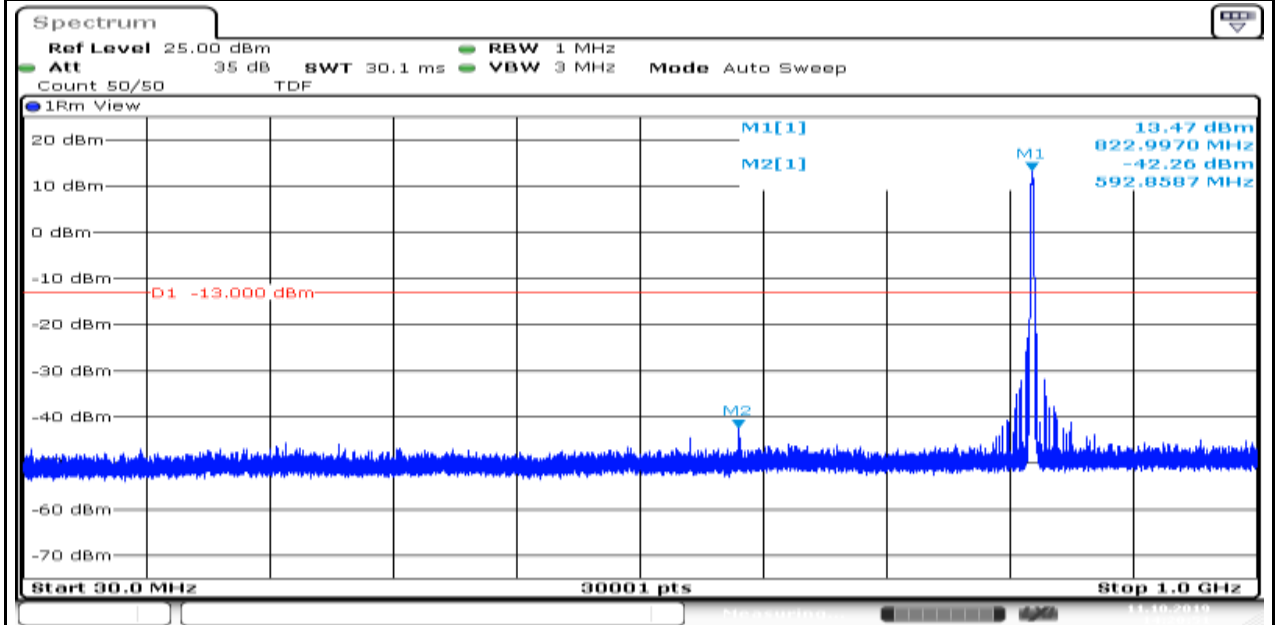
Band26\_1.4MHz\_16QAM\_26783\_1\_5\_Low\_1000\_5000



Band26\_1.4MHz\_16QAM\_26783\_1\_5\_Low\_12000\_26500

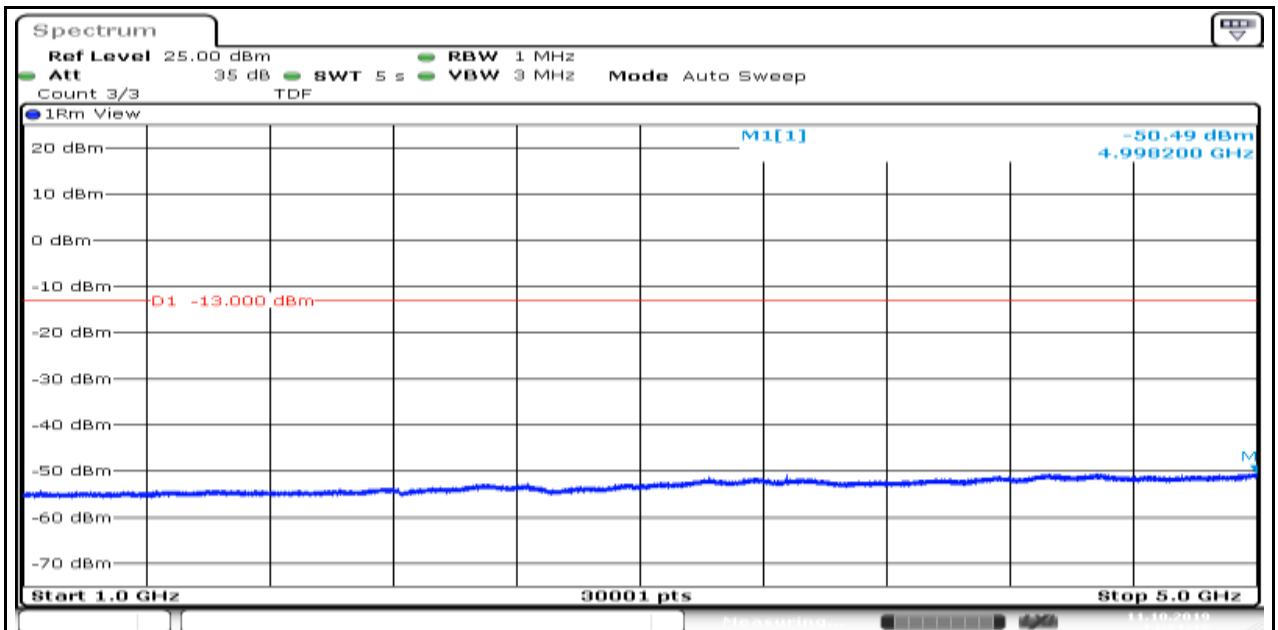


Band26\_1.4MHz\_16QAM\_26783\_6\_0\_Low\_30\_1000

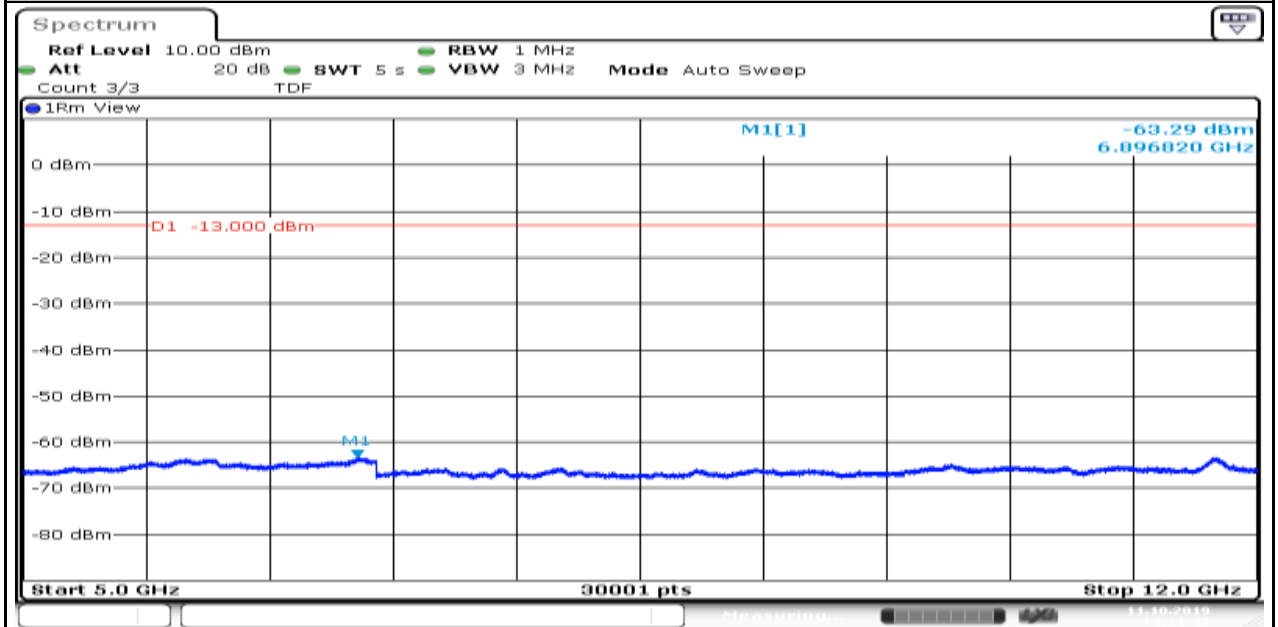


Band26\_1.4MHz\_16QAM\_26783\_6\_0\_Low\_1000\_5000

Produkte  
Products

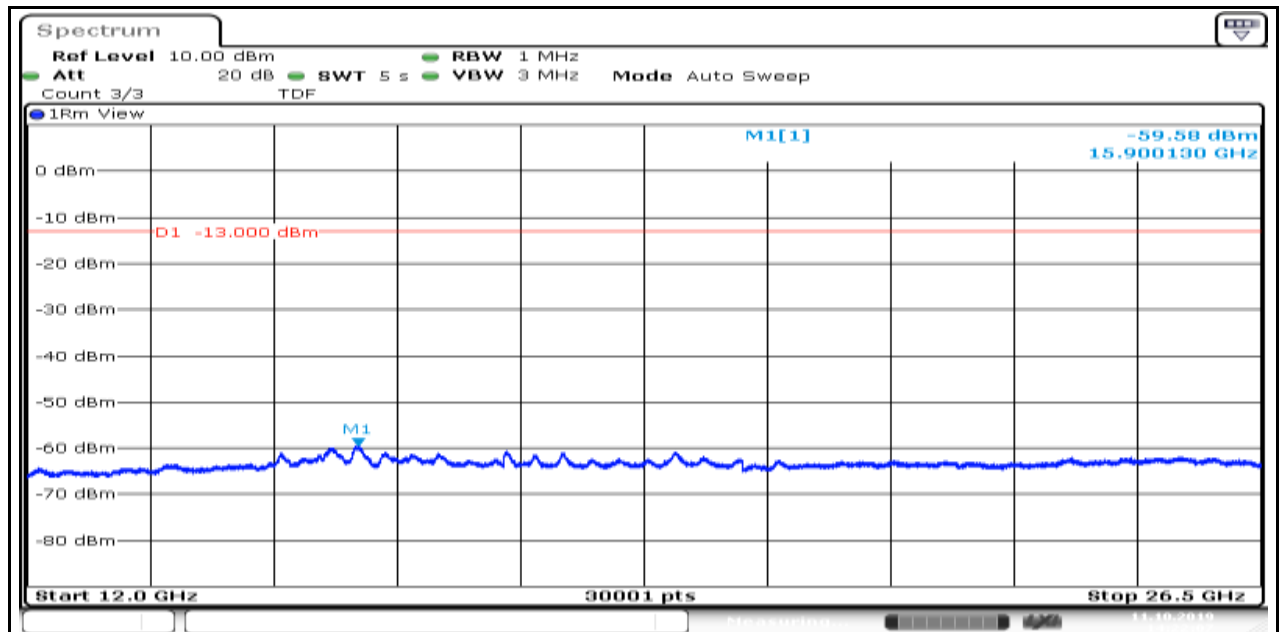


Band26\_1.4MHz\_16QAM\_26783\_6\_0\_Low\_5000\_12000



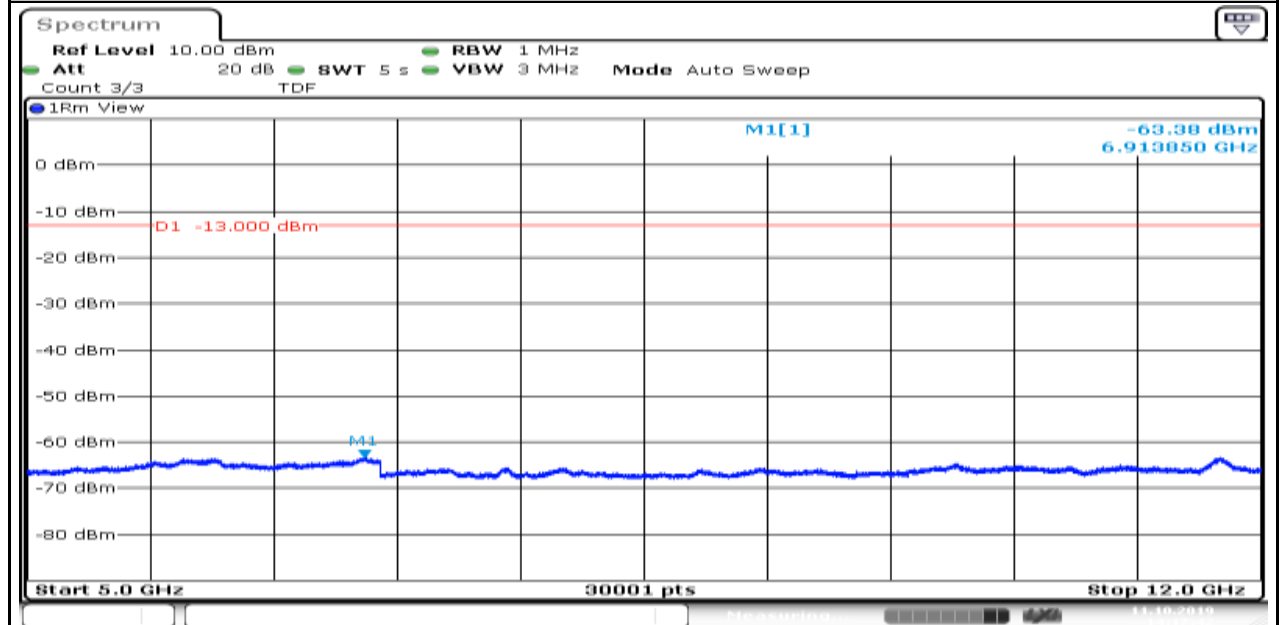
Band26\_1.4MHz\_16QAM\_26783\_6\_0\_Low\_12000\_26500

Produkte  
Products



Date: 11.OCT.2019 14:22:07

Band26\_1.4MHz\_16QAM\_26783\_1\_5\_Low\_5000\_12000



Date: 11.OCT.2019 14:17:41

## Appendix G.6: Frequency Stability for M1 Test Result

| Voltage |           |            |         |         |          |          |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band26  | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | HV            | NT               | -33.75         | -0.041209       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | LV            | NT               | -36.12         | -0.044103       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | NT               | -32.22         | -0.039341       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | HV            | NT               | -23.82         | -0.029084       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | LV            | NT               | -23.59         | -0.028803       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | NT               | -21.46         | -0.026203       | ±2.5        | PASS    |

| Temperature |           |            |         |         |          |          |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | -20              | -34.85         | -0.042552       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | -10              | -33.65         | -0.041087       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 0                | -34.15         | -0.041697       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 10               | -33.97         | -0.041477       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 20               | -34.75         | -0.042430       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 30               | -35.55         | -0.043407       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 40               | -35.51         | -0.043358       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 50               | -31.69         | -0.038694       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | -30              | -32.93         | -0.040208       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 0                | -26.28         | -0.032088       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | -30              | -25.79         | -0.031490       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | -20              | -26.39         | -0.032222       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | -10              | -27.17         | -0.033175       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 10               | -28.44         | -0.034725       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 20               | -27.67         | -0.033785       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 30               | -26.89         | -0.032833       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 50               | -29.08         | -0.035507       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 40               | -27.07         | -0.033053       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 60               | -36.08         | -0.044054       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 70               | -36.19         | -0.044188       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 80               | -36.54         | -0.044615       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | 85               | -34.45         | -0.042063       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26740   | 1       | 0        | Low      | NV            | -40              | -34.46         | -0.042076       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | -40              | -36.56         | -0.044640       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 60               | -10.03         | -0.012247       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 70               | -35.15         | -0.042918       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 85               | -38.05         | -0.046459       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26740   | 1       | 0        | Low      | NV            | 80               | -36.65         | -0.044750       | ±2.5        | PASS    |

# Appendix H: Test Results of Band 26 Upper Band for eMTC operation

|                                                                                                 |          |
|-------------------------------------------------------------------------------------------------|----------|
| <b>APPENDIX H: TEST RESULTS OF BAND 26 UPPER BAND FOR EMTC OPERATION .....</b>                  | <b>1</b> |
| APPENDIX H.1: RF POWER OUTPUT AND EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA FOR M1 ..... | 2        |
| Test Result .....                                                                               | 2        |
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## Appendix H.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result (dBm) | ERP   |       | Limit (watts) |      | Verdict |
|--------|-----------|------------|---------|---------|----------|---------|--------------|-------|-------|---------------|------|---------|
|        |           |            |         |         |          |         |              | dBm   | watts | FCC           | ISED |         |
| Band26 | 1.4MHz    | QPSK       | 26797   | 6       | 0        | Low     | 19.2         | 19.19 | 0.083 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26797   | 1       | 0        | Low     | 21.07        | 21.06 | 0.128 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 6       | 0        | Low     | 19.29        | 19.28 | 0.085 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low     | 21.37        | 21.36 | 0.137 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 1       | 5        | Low     | 21.42        | 21.41 | 0.138 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 6       | 0        | Low     | 19.16        | 19.15 | 0.082 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 1       | 0        | Low     | 20.27        | 20.26 | 0.106 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 6       | 0        | Low     | 19.2         | 19.19 | 0.083 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 6       | 0        | Low     | 19.29        | 19.28 | 0.085 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low     | 20.23        | 20.22 | 0.105 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 1       | 5        | Low     | 20.11        | 20.1  | 0.102 | 7             | 11.5 | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 6       | 0        | Low     | 19.16        | 19.15 | 0.082 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | QPSK       | 26805   | 6       | 0        | Low     | 19.1         | 19.09 | 0.081 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | QPSK       | 26805   | 1       | 0        | Low     | 21.37        | 21.36 | 0.137 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | QPSK       | 26915   | 6       | 0        | Low     | 19.11        | 19.1  | 0.081 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | QPSK       | 26915   | 1       | 0        | Low     | 21.21        | 21.2  | 0.132 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | QPSK       | 27025   | 1       | 5        | High    | 21.21        | 21.2  | 0.132 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | QPSK       | 27025   | 6       | 0        | High    | 19.1         | 19.09 | 0.081 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | 16QAM      | 26805   | 1       | 0        | Low     | 20.42        | 20.41 | 0.110 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | 16QAM      | 26805   | 6       | 0        | Low     | 19.1         | 19.09 | 0.081 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | 16QAM      | 26915   | 1       | 0        | Low     | 20.46        | 20.45 | 0.111 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | 16QAM      | 26915   | 6       | 0        | Low     | 19.12        | 19.11 | 0.081 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | 16QAM      | 27025   | 1       | 5        | High    | 20.33        | 20.32 | 0.108 | 7             | 11.5 | PASS    |
| Band26 | 3MHz      | 16QAM      | 27025   | 6       | 0        | High    | 18.99        | 18.98 | 0.079 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | QPSK       | 26815   | 1       | 0        | Low     | 21.37        | 21.36 | 0.137 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | QPSK       | 26815   | 6       | 0        | Low     | 20.11        | 20.1  | 0.102 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | QPSK       | 26915   | 6       | 0        | Low     | 20.11        | 20.1  | 0.102 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | QPSK       | 26915   | 1       | 0        | Low     | 21.27        | 21.26 | 0.134 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | QPSK       | 27015   | 3       | 3        | High    | 21.06        | 21.05 | 0.127 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | QPSK       | 27015   | 1       | 5        | High    | 21.17        | 21.16 | 0.131 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | 16QAM      | 26815   | 6       | 0        | Low     | 20.17        | 20.16 | 0.104 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | 16QAM      | 26815   | 1       | 0        | Low     | 20.66        | 20.65 | 0.116 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | 16QAM      | 26915   | 1       | 0        | Low     | 20.67        | 20.66 | 0.116 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | 16QAM      | 26915   | 6       | 0        | Low     | 20.11        | 20.1  | 0.102 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | 16QAM      | 27015   | 3       | 3        | High    | 20.74        | 20.73 | 0.118 | 7             | 11.5 | PASS    |
| Band26 | 5MHz      | 16QAM      | 27015   | 1       | 5        | High    | 20.45        | 20.44 | 0.111 | 7             | 11.5 | PASS    |
| Band26 | 10MHz     | QPSK       | 26840   | 1       | 0        | Low     | 21.36        | 21.35 | 0.136 | 7             | 11.5 | PASS    |
| Band26 | 10MHz     | QPSK       | 26840   | 5       | 0        | Low     | 21.22        | 21.21 | 0.132 | 7             | 11.5 | PASS    |
| Band26 | 10MHz     | QPSK       | 26915   | 1       | 0        | Low     | 21.3         | 21.29 | 0.135 | 7             | 11.5 | PASS    |
| Band26 | 10MHz     | QPSK       | 26915   | 5       | 0        | Low     | 21.16        | 21.15 | 0.130 | 7             | 11.5 | PASS    |
| Band26 | 10MHz     | QPSK       | 26990   | 1       | 5        | High    | 21.21        | 21.2  | 0.132 | 7             | 11.5 | PASS    |
| Band26 | 10MHz     | QPSK       | 26990   | 5       | 1        | High    | 21.25        | 21.24 | 0.133 | 7             | 11.5 | PASS    |
| Band26 | 10MHz     | 16QAM      | 26840   | 5       | 0        | Low     | 20.95        | 20.94 | 0.124 | 7             | 11.5 | PASS    |
| Band26 | 10MHz     | 16QAM      | 26840   | 1       | 0        | Low     | 20.64        | 20.63 | 0.116 | 7             | 11.5 | PASS    |
| Band26 | 10MHz     | 16QAM      | 26915   | 1       | 0        | Low     | 20.5         | 20.49 | 0.112 | 7             | 11.5 | PASS    |

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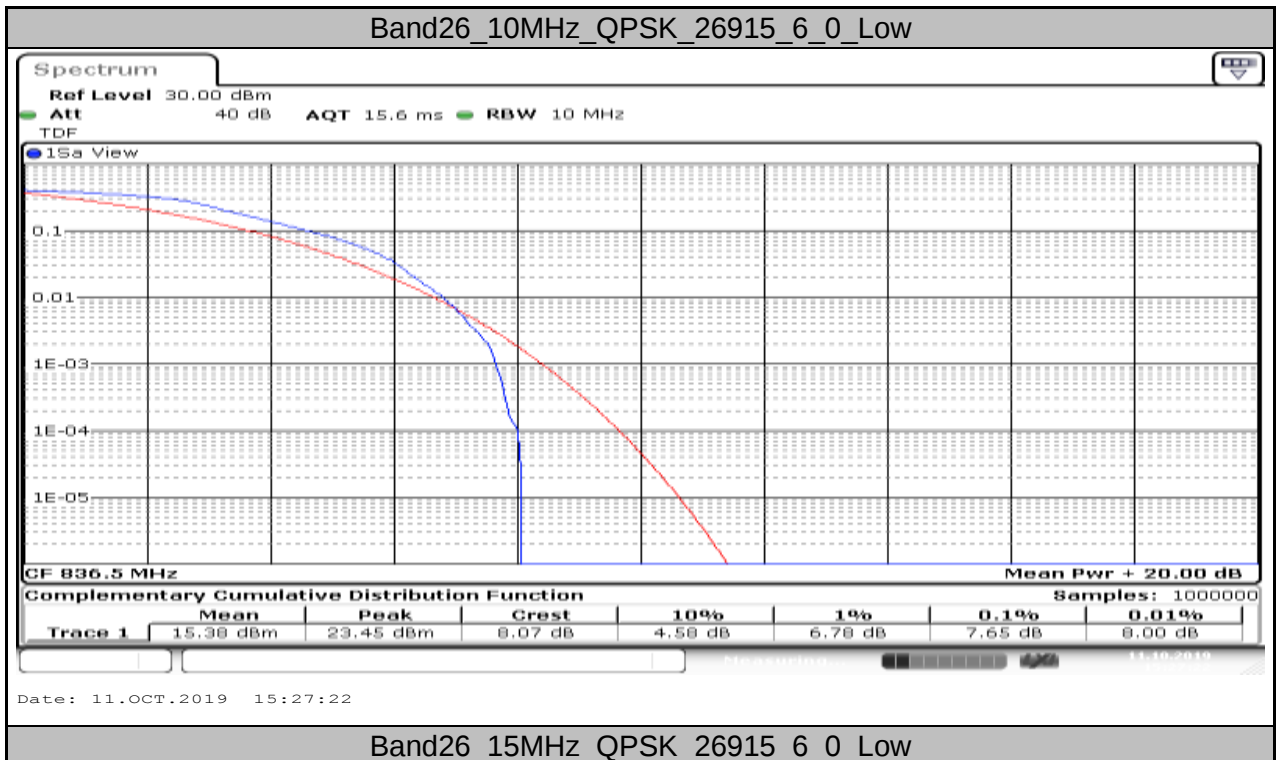
|        |       |       |       |   |   |      |       |       |       |   |      |      |
|--------|-------|-------|-------|---|---|------|-------|-------|-------|---|------|------|
| Band26 | 10MHz | 16QAM | 26915 | 5 | 0 | Low  | 20.9  | 20.89 | 0.123 | 7 | 11.5 | PASS |
| Band26 | 10MHz | 16QAM | 26990 | 5 | 1 | High | 21.18 | 21.17 | 0.131 | 7 | 11.5 | PASS |
| Band26 | 10MHz | 16QAM | 26990 | 1 | 5 | High | 20.48 | 20.47 | 0.111 | 7 | 11.5 | PASS |
| Band26 | 15MHz | QPSK  | 26865 | 1 | 0 | Low  | 21.28 | 21.27 | 0.134 | 7 | 11.5 | PASS |
| Band26 | 15MHz | QPSK  | 26865 | 6 | 0 | Low  | 21.38 | 21.37 | 0.137 | 7 | 11.5 | PASS |
| Band26 | 15MHz | QPSK  | 26915 | 1 | 0 | Low  | 21.13 | 21.12 | 0.129 | 7 | 11.5 | PASS |
| Band26 | 15MHz | QPSK  | 26915 | 6 | 0 | Low  | 21.24 | 21.23 | 0.133 | 7 | 11.5 | PASS |
| Band26 | 15MHz | QPSK  | 26965 | 6 | 0 | High | 21.22 | 21.21 | 0.132 | 7 | 11.5 | PASS |
| Band26 | 15MHz | QPSK  | 26965 | 1 | 5 | High | 21.23 | 21.22 | 0.132 | 7 | 11.5 | PASS |
| Band26 | 15MHz | 16QAM | 26865 | 1 | 0 | Low  | 20.68 | 20.67 | 0.117 | 7 | 11.5 | PASS |
| Band26 | 15MHz | 16QAM | 26865 | 6 | 0 | Low  | 21.38 | 21.37 | 0.137 | 7 | 11.5 | PASS |
| Band26 | 15MHz | 16QAM | 26915 | 6 | 0 | Low  | 21.25 | 21.24 | 0.133 | 7 | 11.5 | PASS |
| Band26 | 15MHz | 16QAM | 26915 | 1 | 0 | Low  | 20.68 | 20.67 | 0.117 | 7 | 11.5 | PASS |
| Band26 | 15MHz | 16QAM | 26965 | 6 | 0 | High | 21.22 | 21.21 | 0.132 | 7 | 11.5 | PASS |
| Band26 | 15MHz | 16QAM | 26965 | 1 | 5 | High | 20.52 | 20.51 | 0.112 | 7 | 11.5 | PASS |

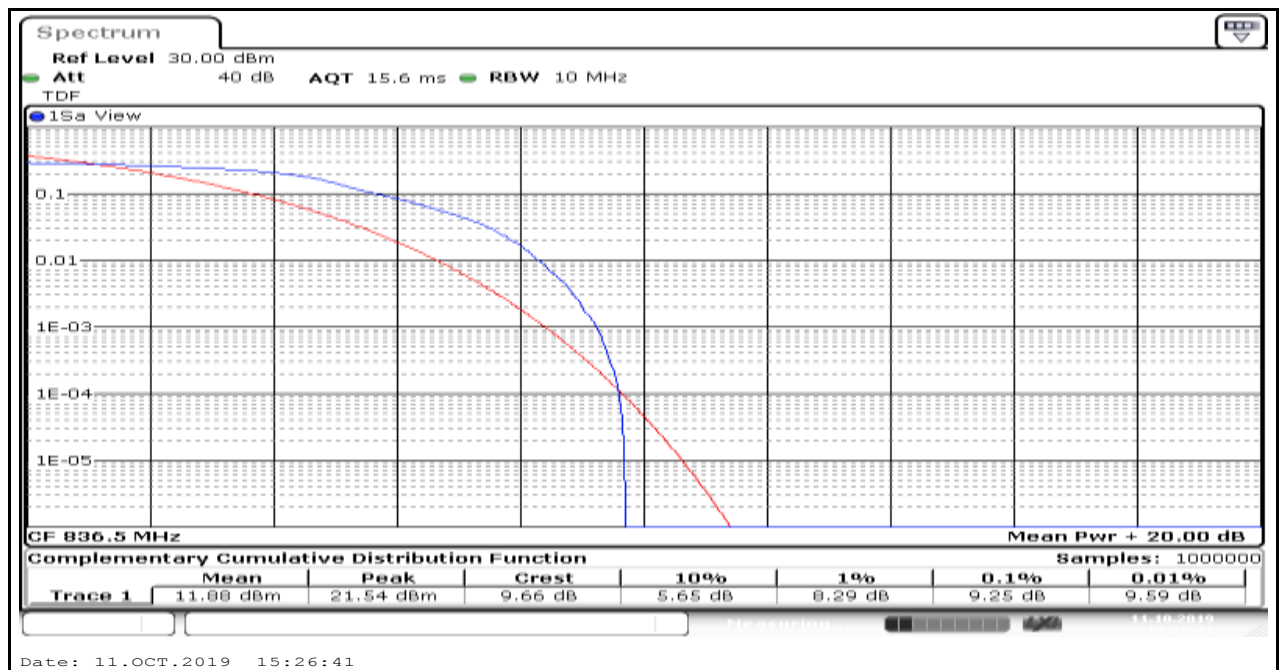
## Appendix H.2: Peak-to-Average Ratio(CCDF) for M1

### Test Result

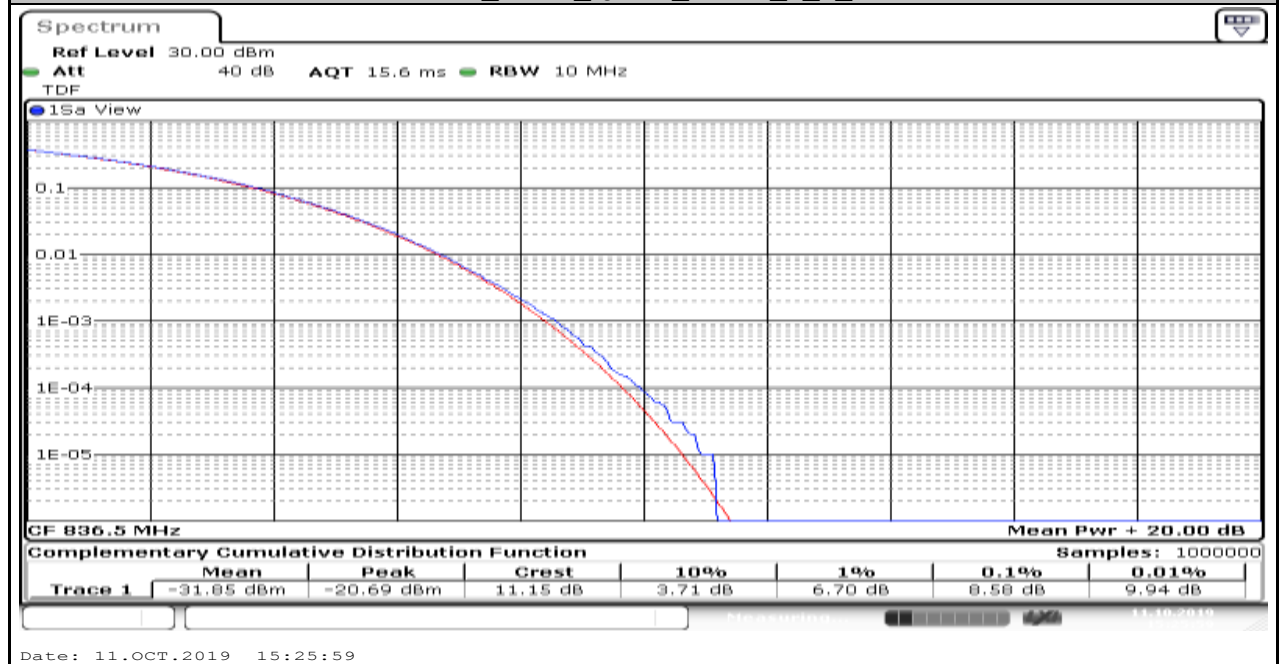
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|---------|----------|---------|------------|-----------|---------|
| Band26 | 10MHz     | QPSK       | 26915   | 6       | 0        | Low     | 7.65       | <=13      | PASS    |
| Band26 | 15MHz     | QPSK       | 26915   | 6       | 0        | Low     | 9.25       | <=13      | PASS    |
| Band26 | 3MHz      | QPSK       | 26915   | 6       | 0        | Low     | 8.58       | <=13      | PASS    |
| Band26 | 5MHz      | QPSK       | 26915   | 6       | 0        | Low     | 8.35       | <=13      | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 6       | 0        | Low     | 5.13       | <=13      | PASS    |
| Band26 | 10MHz     | 16QAM      | 26915   | 6       | 0        | Low     | 11.16      | <=13      | PASS    |
| Band26 | 15MHz     | 16QAM      | 26915   | 6       | 0        | Low     | 8.93       | <=13      | PASS    |
| Band26 | 3MHz      | 16QAM      | 26915   | 6       | 0        | Low     | 11.30      | <=13      | PASS    |
| Band26 | 5MHz      | 16QAM      | 26915   | 6       | 0        | Low     | 11.39      | <=13      | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 6       | 0        | Low     | 9.07       | <=13      | PASS    |

### Test Graphs

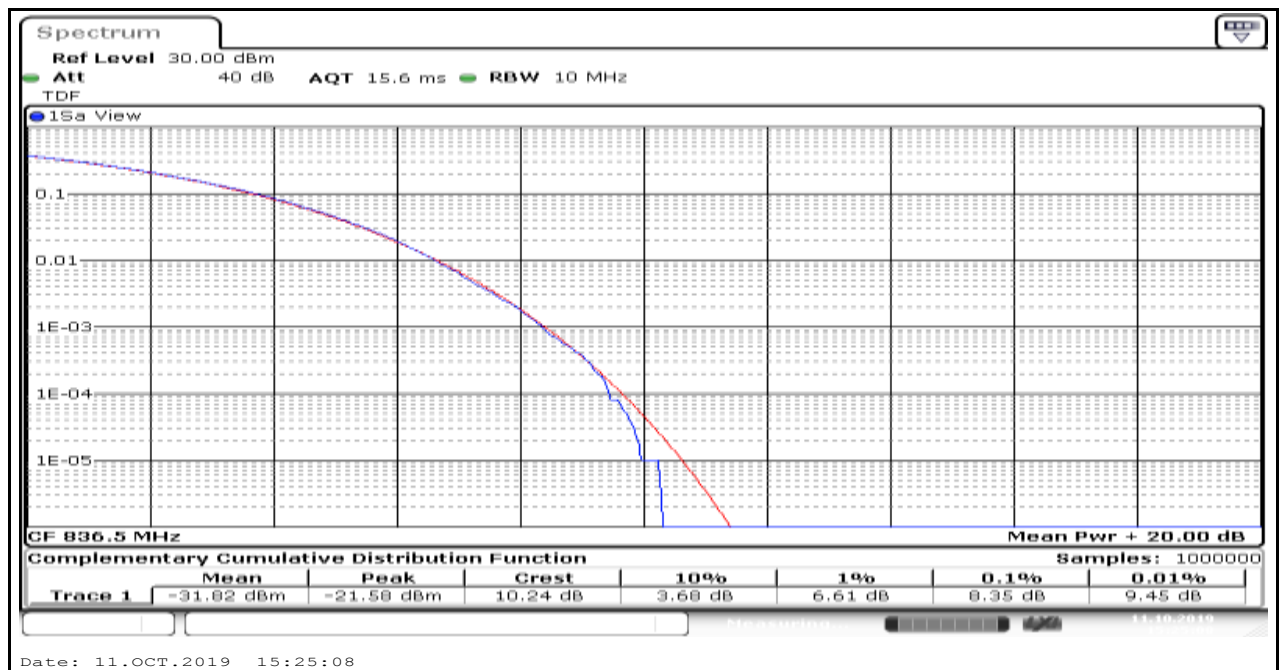




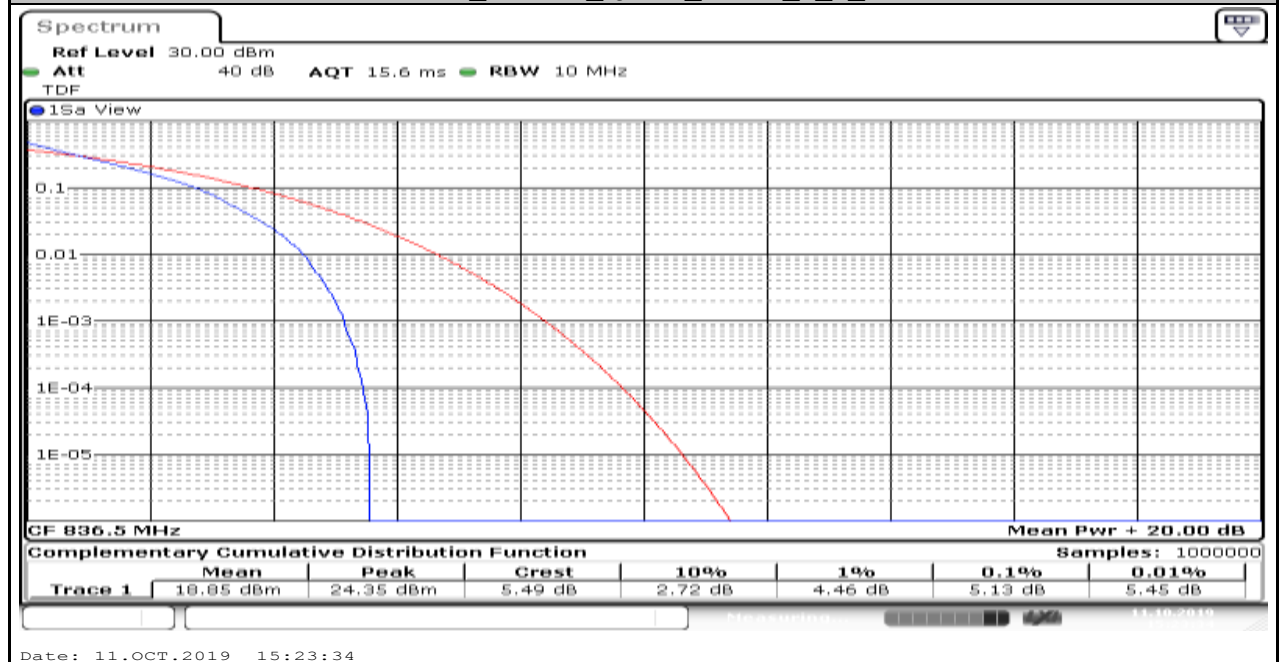
Band26\_3MHz\_QPSK\_26915\_6\_0\_Low



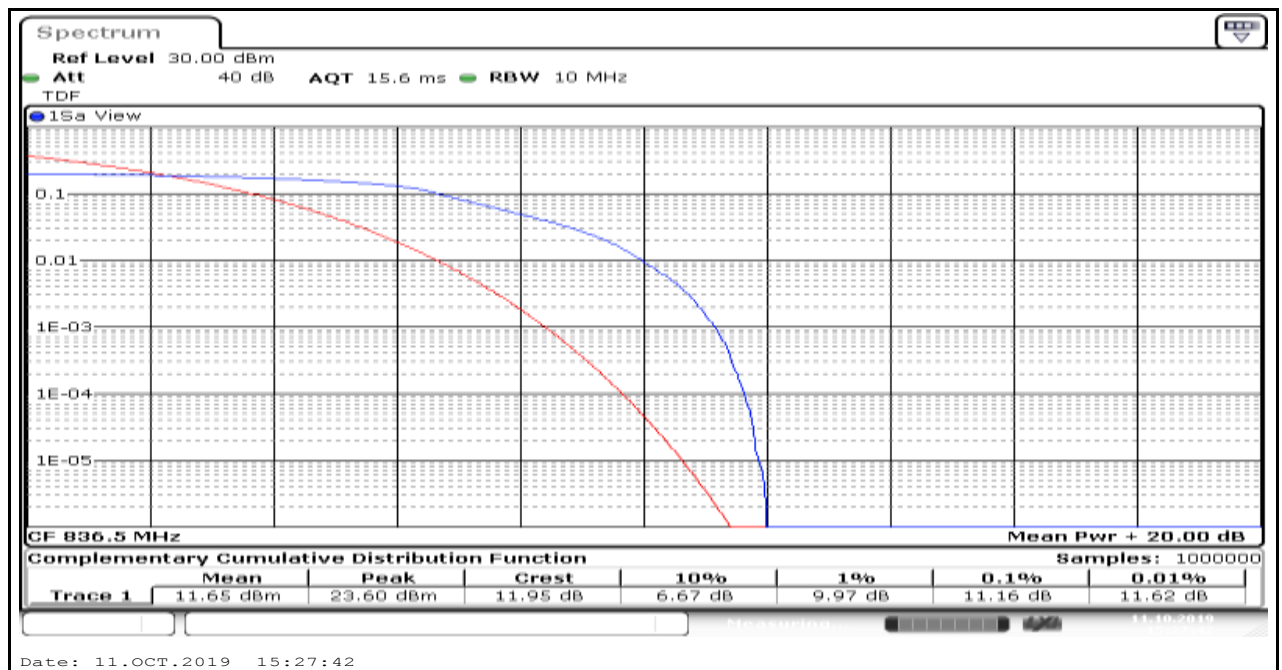
Band26\_5MHz\_QPSK\_26915\_6\_0\_Low



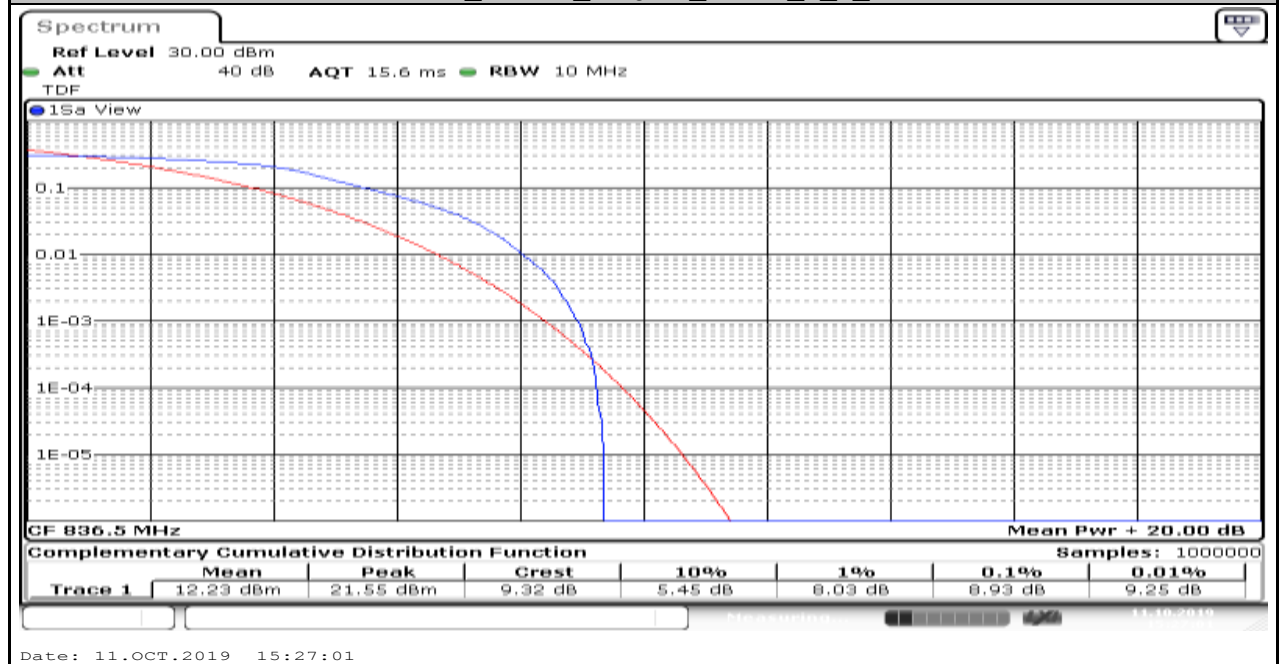
Band26\_1.4MHz\_QPSK\_26915\_6\_0\_Low



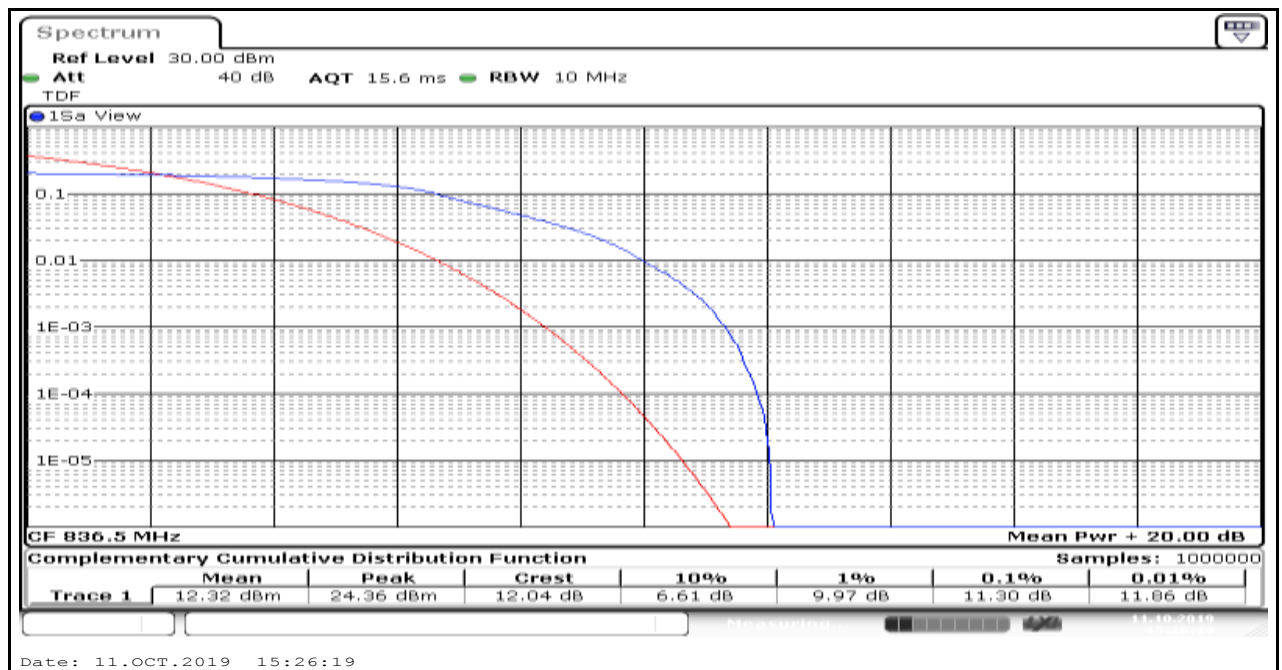
Band26\_10MHz\_16QAM\_26915\_6\_0\_Low



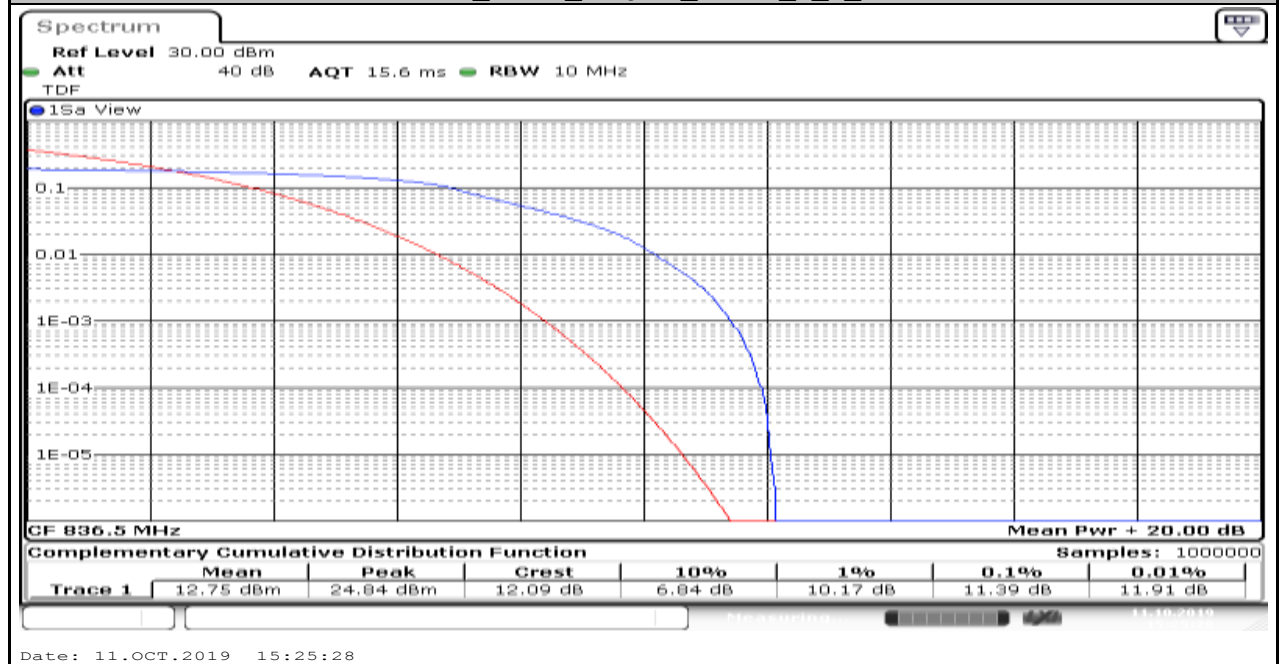
Band26\_15MHz\_16QAM\_26915\_6\_0\_Low



Band26\_3MHz\_16QAM\_26915\_6\_0\_Low

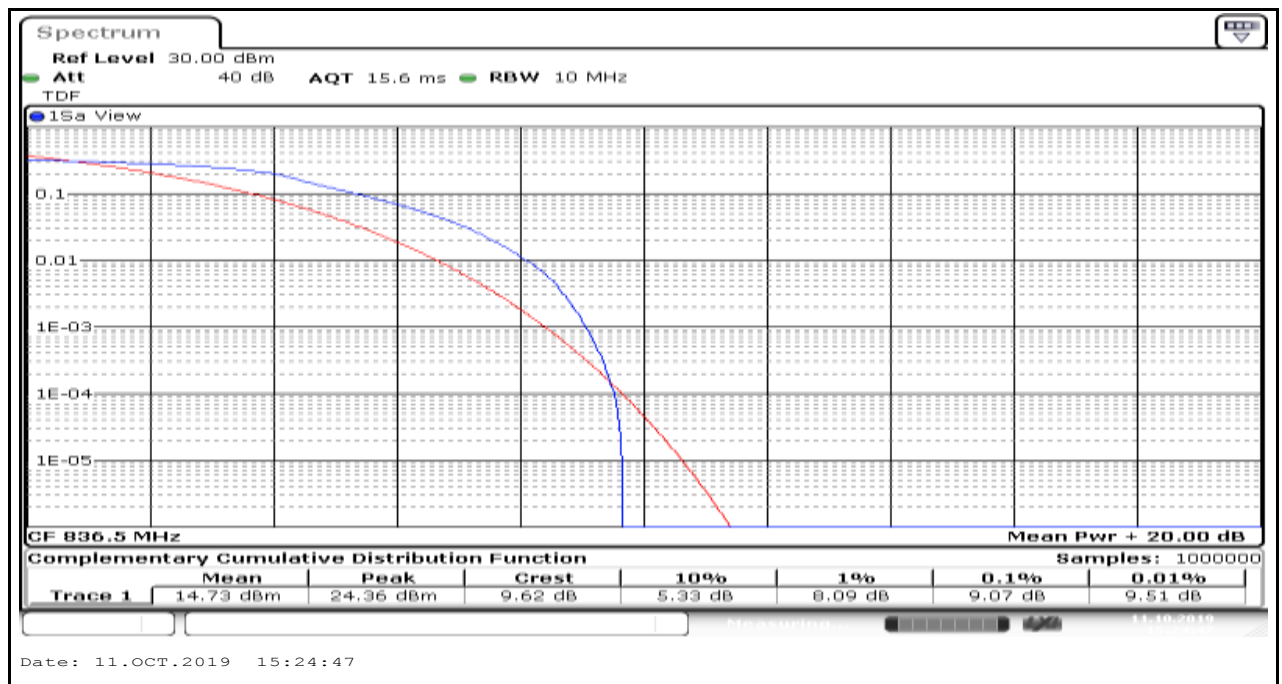


Band26\_5MHz\_16QAM\_26915\_6\_0\_Low



Band26\_1.4MHz\_16QAM\_26915\_6\_0\_Low

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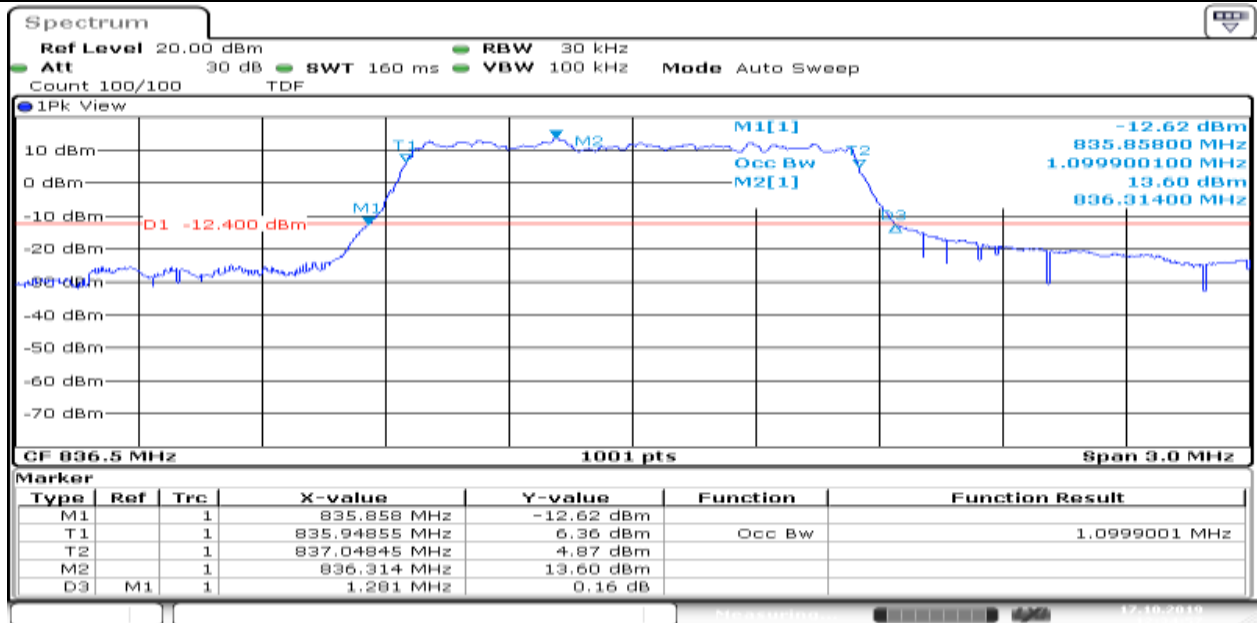
### Appendix H.3: 26dB Bandwidth and Occupied Bandwidth for M1

#### Test Result

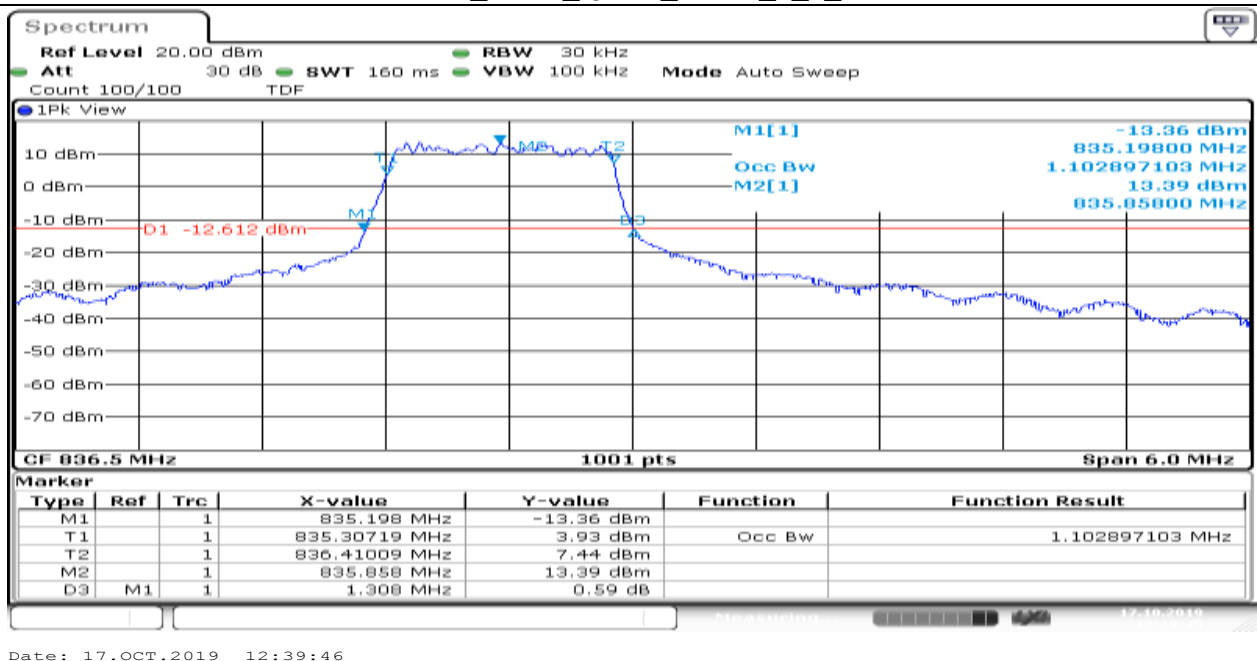
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|--------------------------|----------------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26915   | 6       | 0        | Low      | 1.1                      | 1.281                | PASS    |
| Band26 | 3MHz      | QPSK       | 26915   | 6       | 0        | Low      | 1.103                    | 1.308                | PASS    |
| Band26 | 10MHz     | QPSK       | 26915   | 6       | 0        | Low      | 1.099                    | 1.300                | PASS    |
| Band26 | 5MHz      | QPSK       | 26915   | 6       | 0        | Low      | 1.099                    | 1.330                | PASS    |
| Band26 | 15MHz     | QPSK       | 26915   | 6       | 0        | Low      | 1.109                    | 1.380                | PASS    |
| Band26 | 3MHz      | 16QAM      | 26915   | 6       | 0        | Low      | 1.103                    | 1.308                | PASS    |
| Band26 | 15MHz     | 16QAM      | 26915   | 6       | 0        | Low      | 1.109                    | 1.320                | PASS    |
| Band26 | 5MHz      | 16QAM      | 26915   | 6       | 0        | Low      | 1.099                    | 1.320                | PASS    |
| Band26 | 10MHz     | 16QAM      | 26915   | 6       | 0        | Low      | 1.099                    | 1.320                | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 6       | 0        | Low      | 1.1                      | 1.305                | PASS    |

## Test Graphs

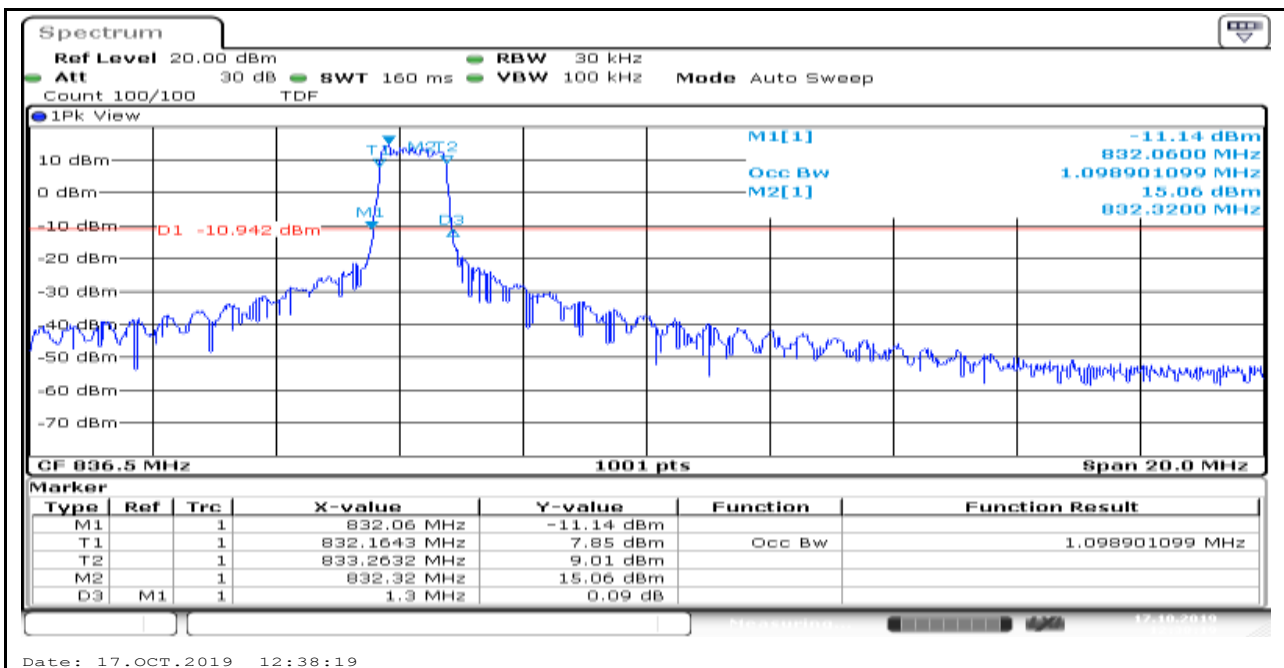
Band26\_1.4MHz\_QPSK\_26915\_6\_0\_Low



Band26\_3MHz\_QPSK\_26915\_6\_0\_Low



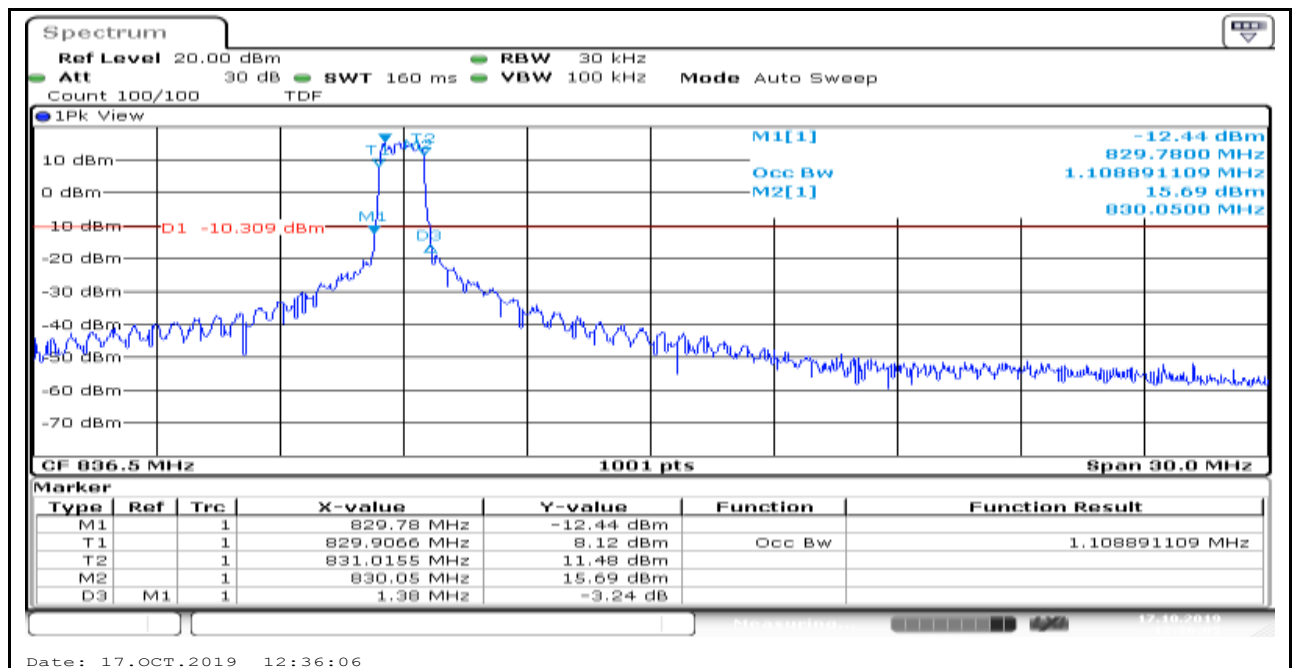
Band26\_10MHz\_QPSK\_26915\_6\_0\_Low



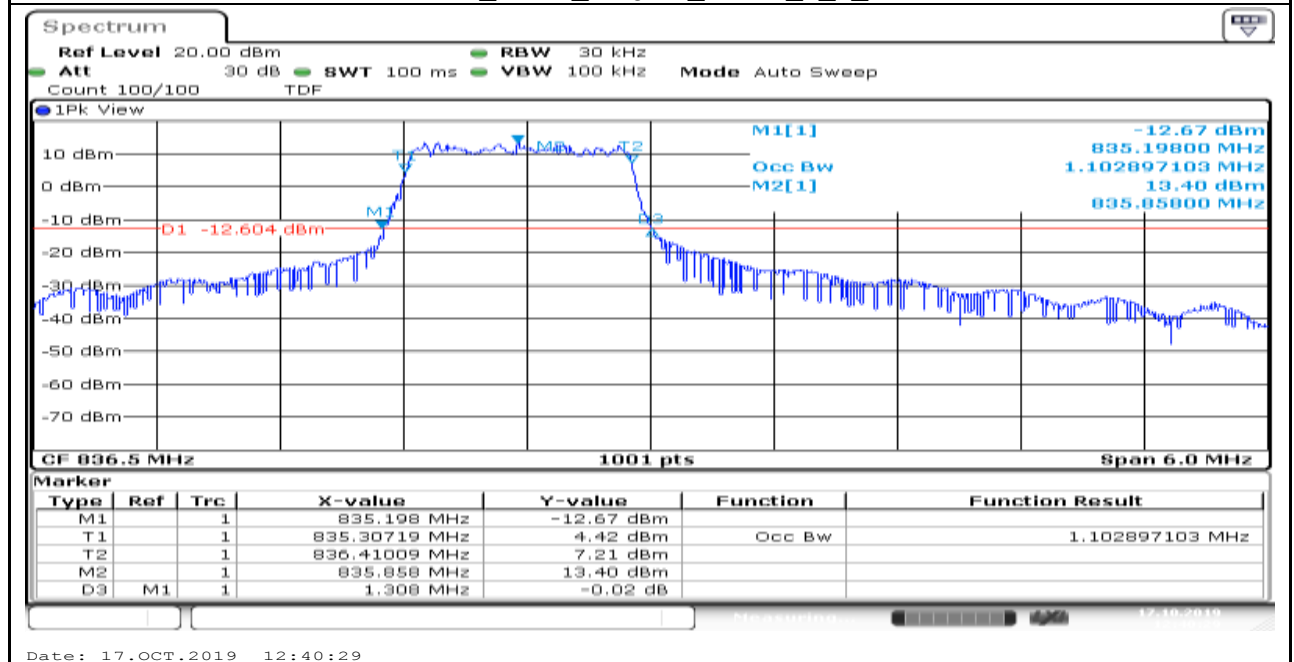
Band26\_5MHz\_QPSK\_26915\_6\_0\_Low



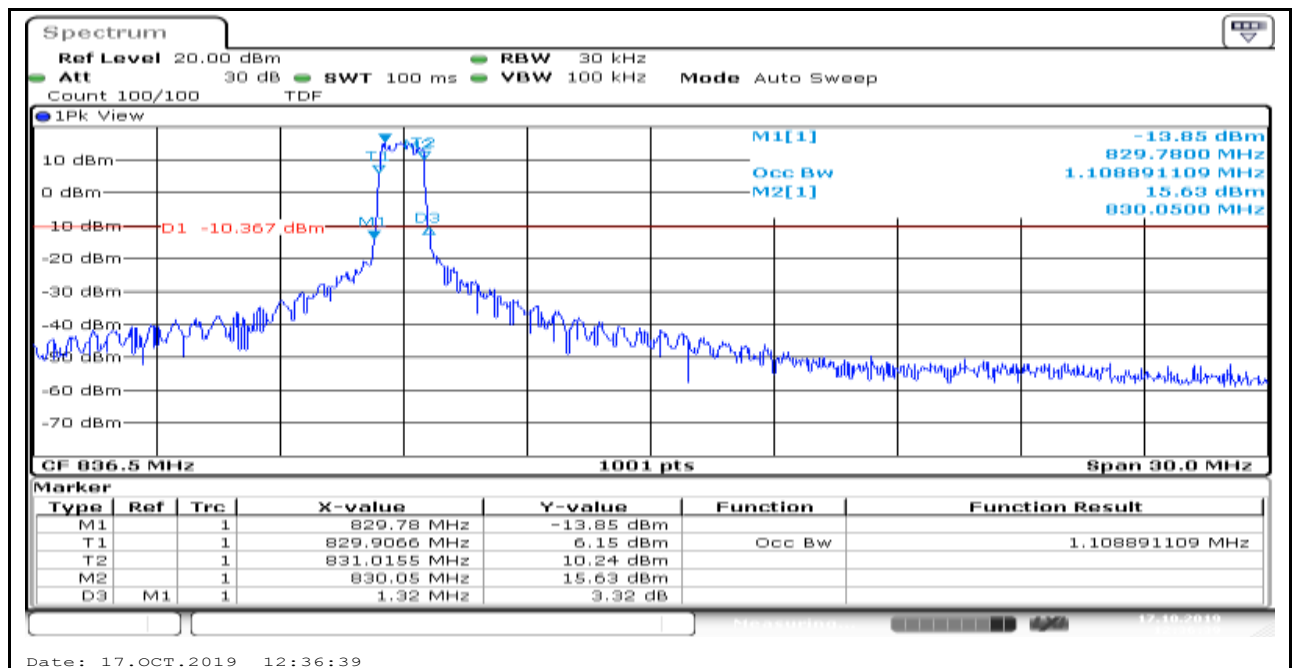
Band26\_15MHz\_QPSK\_26915\_6\_0\_Low



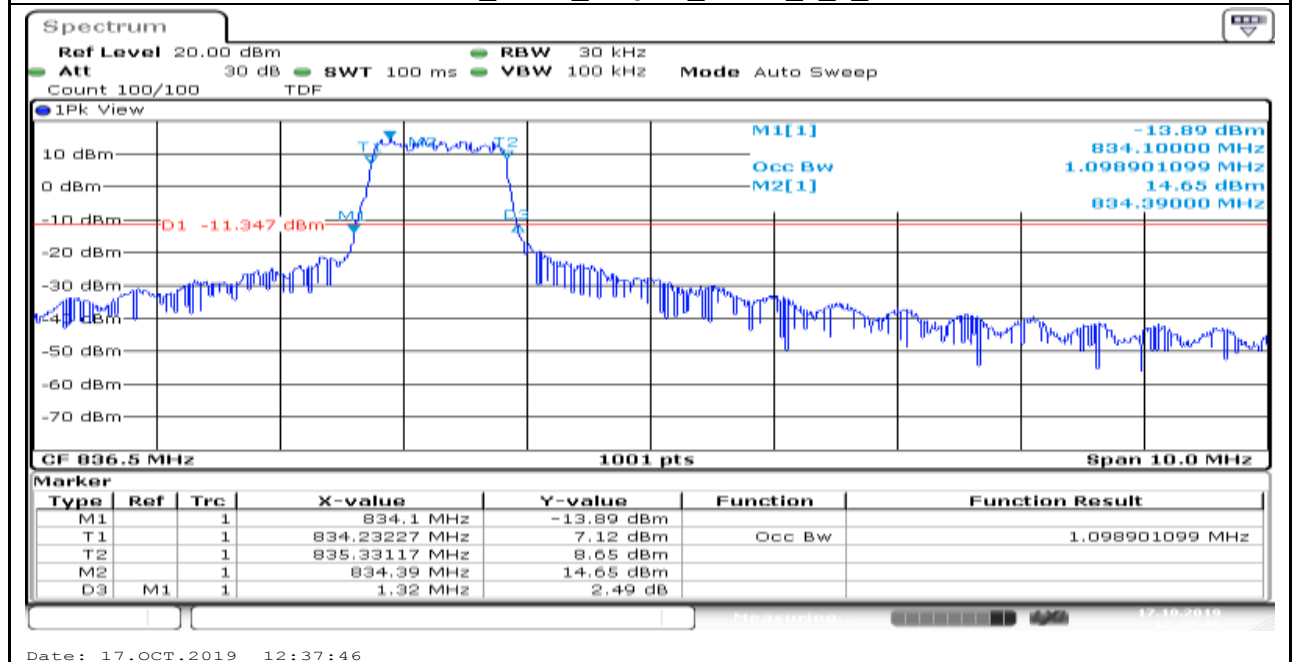
Band26\_3MHz\_16QAM\_26915\_6\_0\_Low



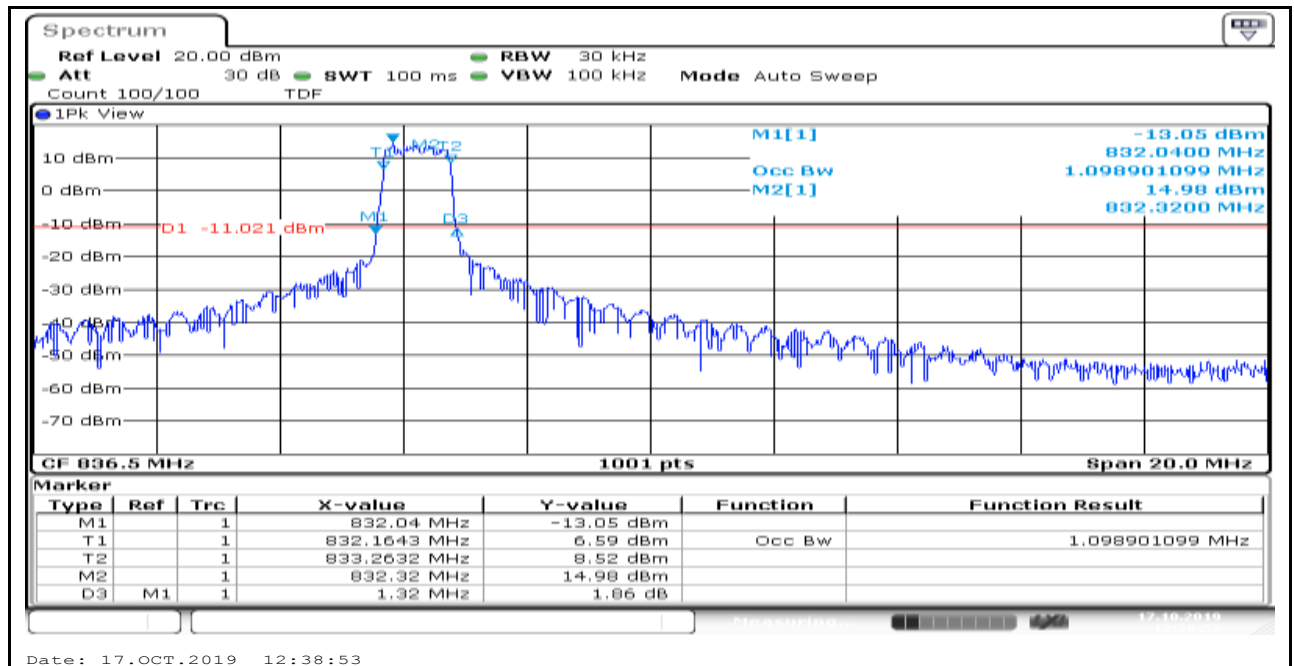
Band26\_15MHz\_16QAM\_26915\_6\_0\_Low



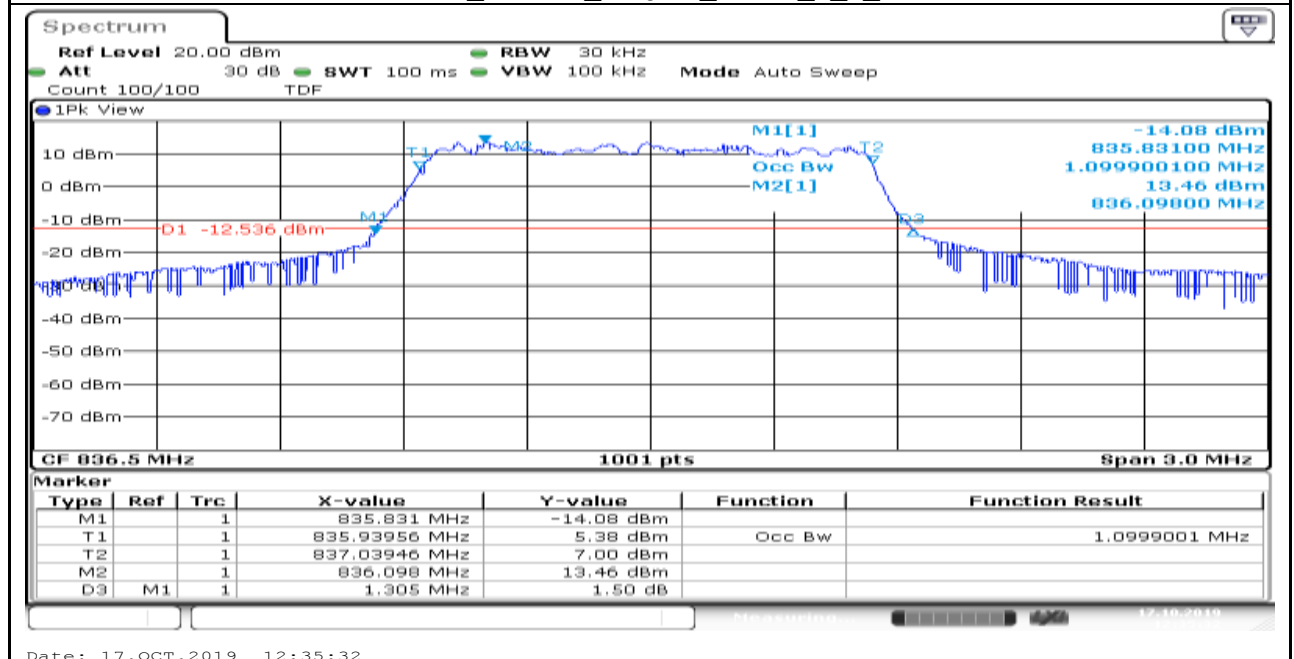
Band26\_5MHz\_16QAM\_26915\_6\_0\_Low



Band26\_10MHz\_16QAM\_26915\_6\_0\_Low



Band26\_1.4MHz\_16QAM\_26915\_6\_0\_Low

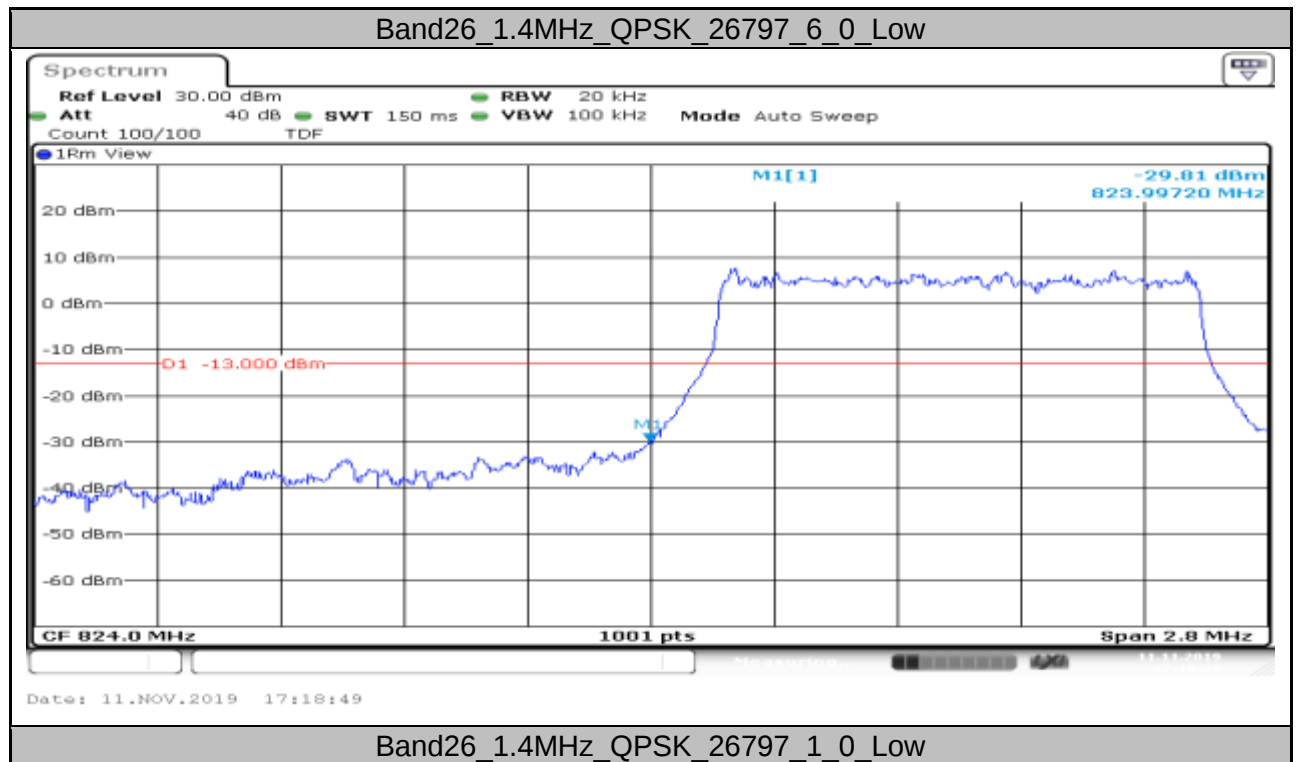


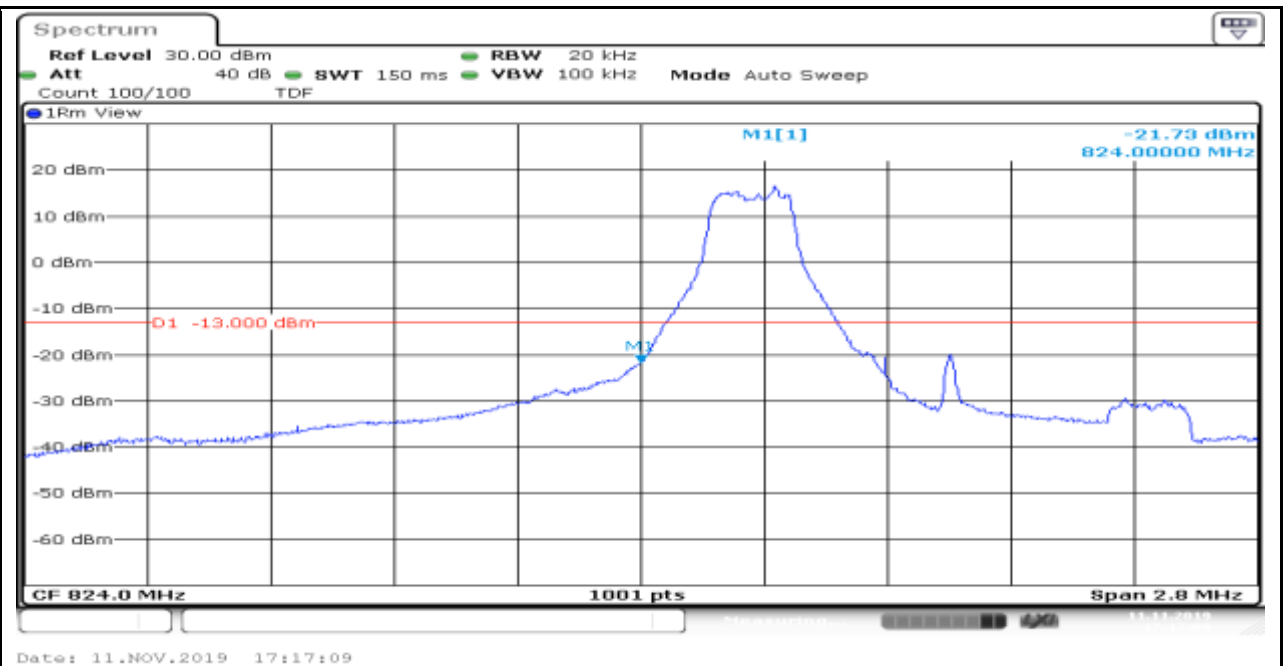
## Appendix H.4: Band Edge for M1

### Test Result

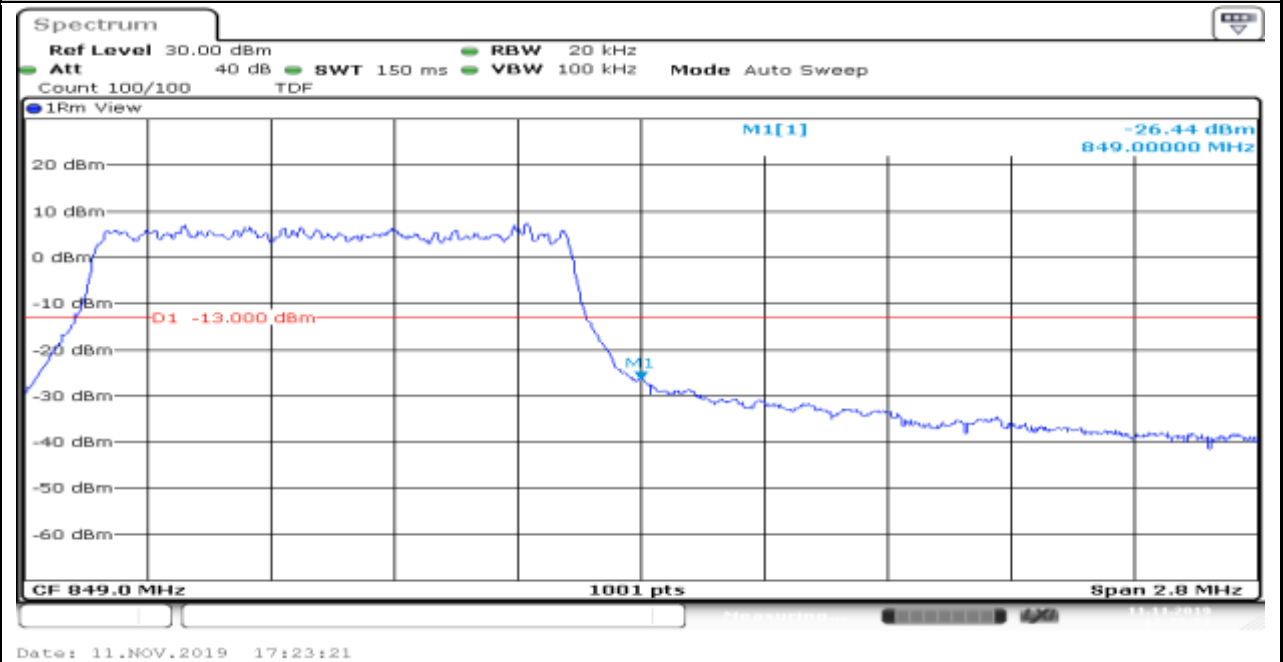
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Result (dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|--------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26797   | 6       | 0        | Low      | -29.81       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26797   | 1       | 0        | Low      | -21.73       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 6       | 0        | High     | -26.44       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 1       | 5        | High     | -28.65       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 6       | 0        | Low      | -29.82       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 1       | 0        | Low      | -24.95       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 6       | 0        | High     | -26.26       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 1       | 5        | High     | -27.46       | PASS    |

### Test Graphs

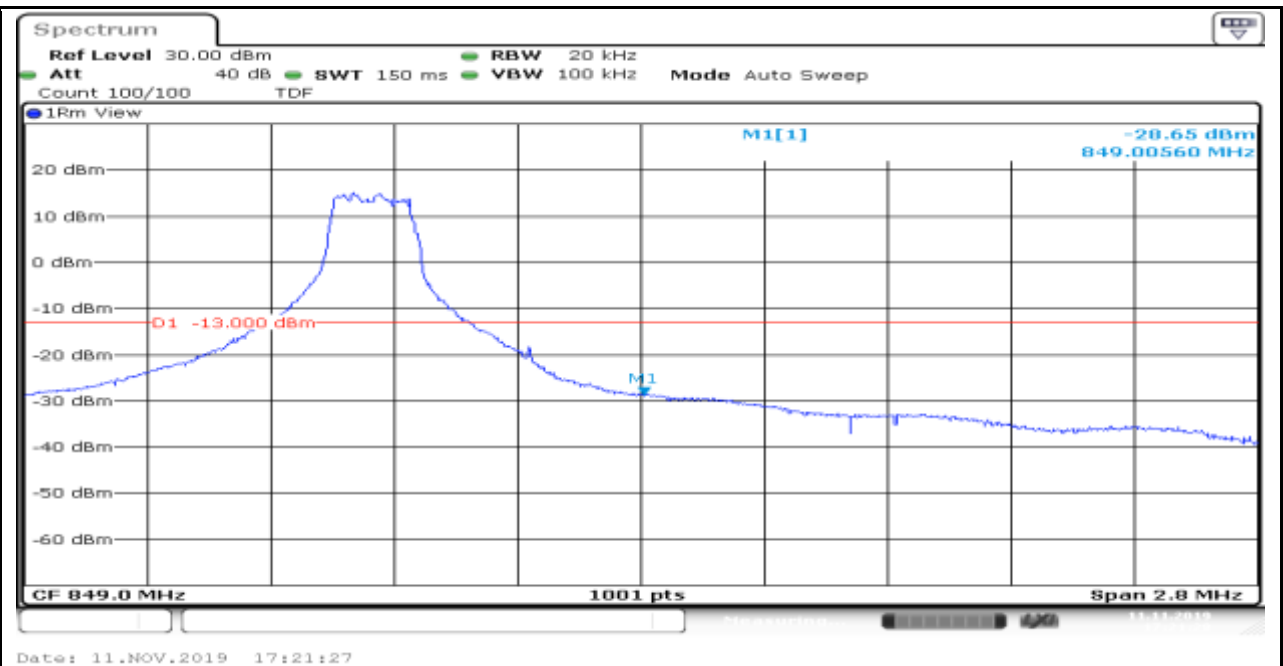




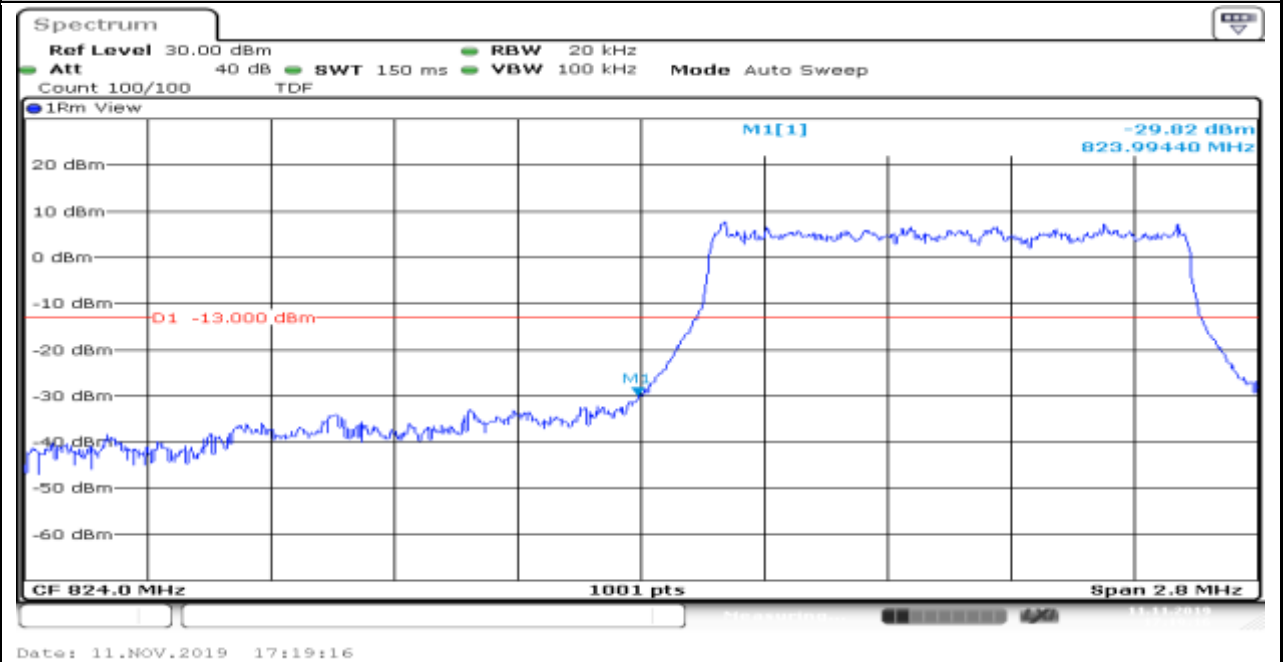
Band26\_1.4MHz\_QPSK\_27033\_6\_0\_High



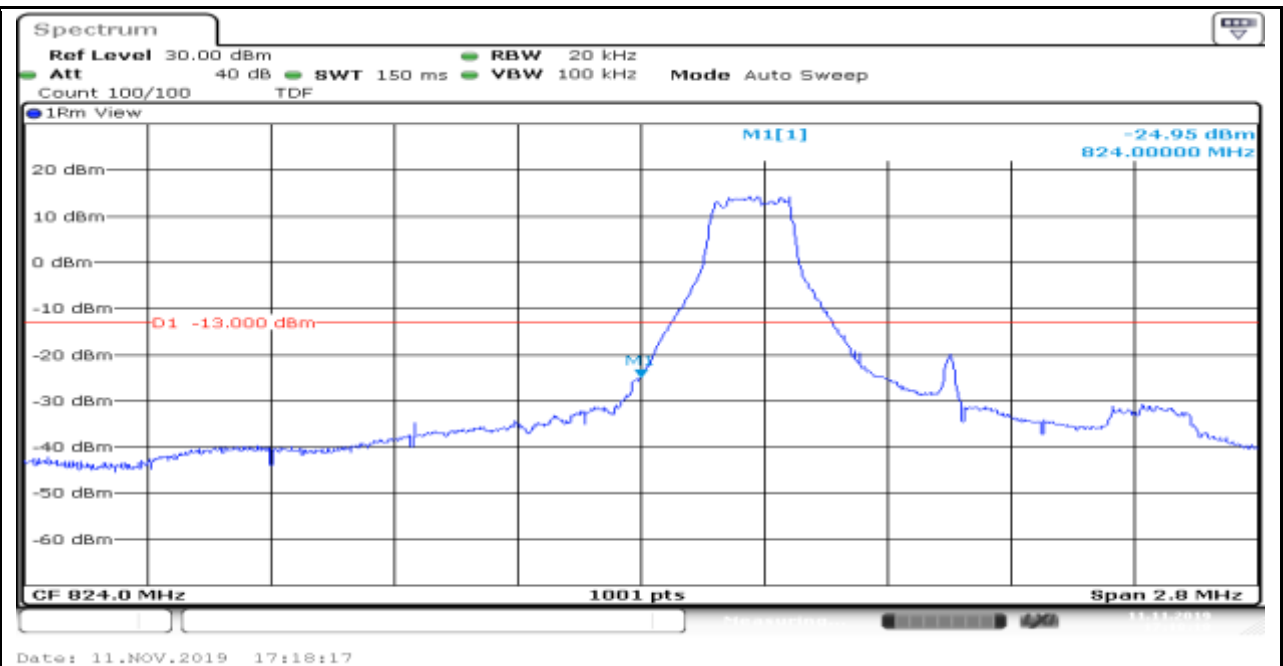
Band26\_1.4MHz\_QPSK\_27033\_1\_5\_High



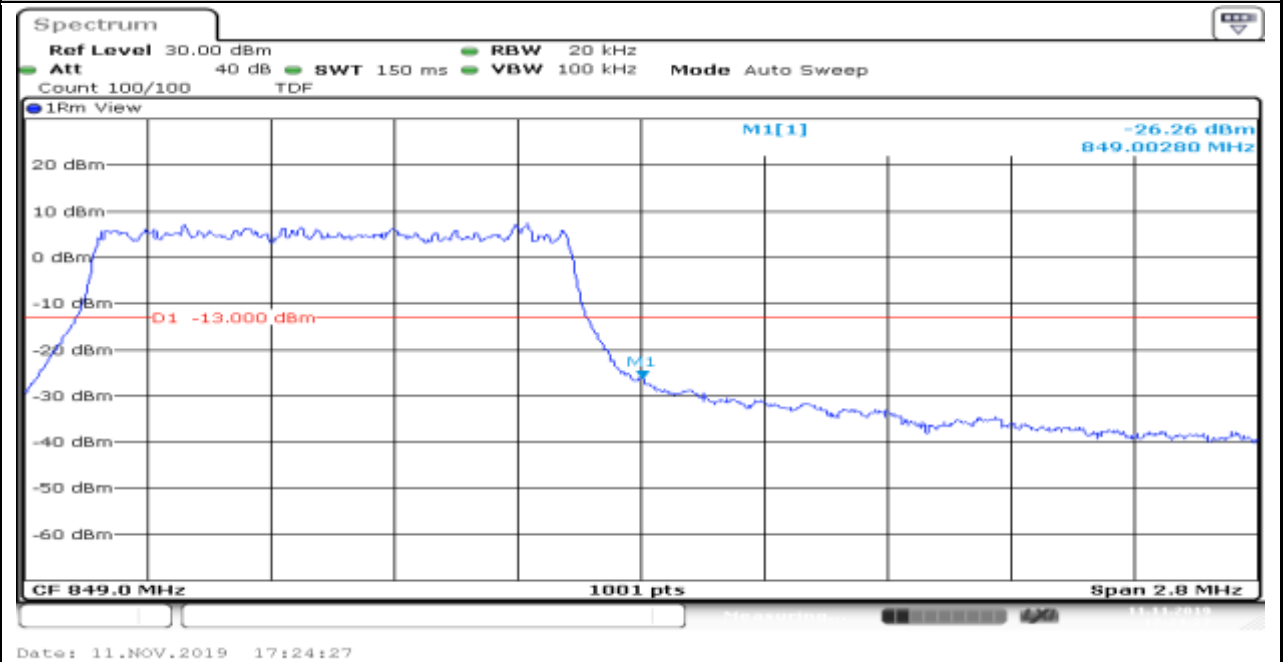
Band26\_1.4MHz\_16QAM\_26797\_6\_0\_Low



Band26\_1.4MHz\_16QAM\_26797\_1\_0\_Low

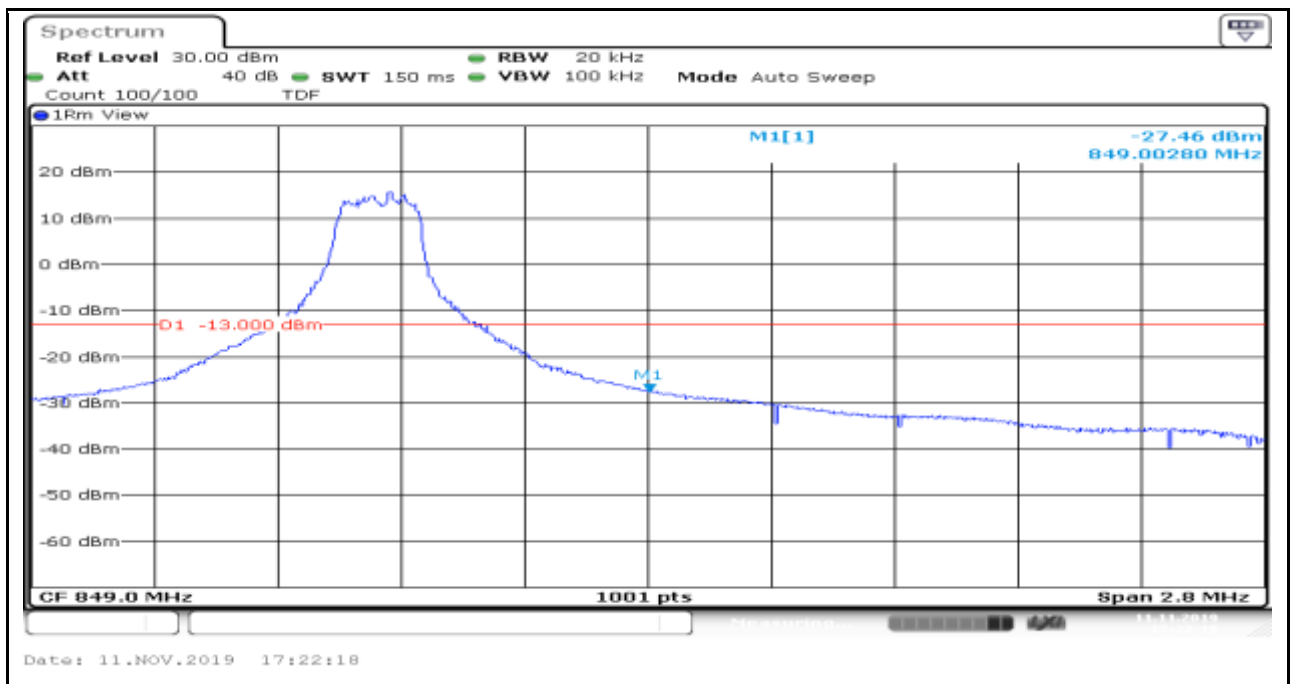


Band26\_1.4MHz\_16QAM\_27033\_6\_0\_High



Band26\_1.4MHz\_16QAM\_27033\_1\_5\_High

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## Appendix H.5: Conducted Spurious Emission for M1

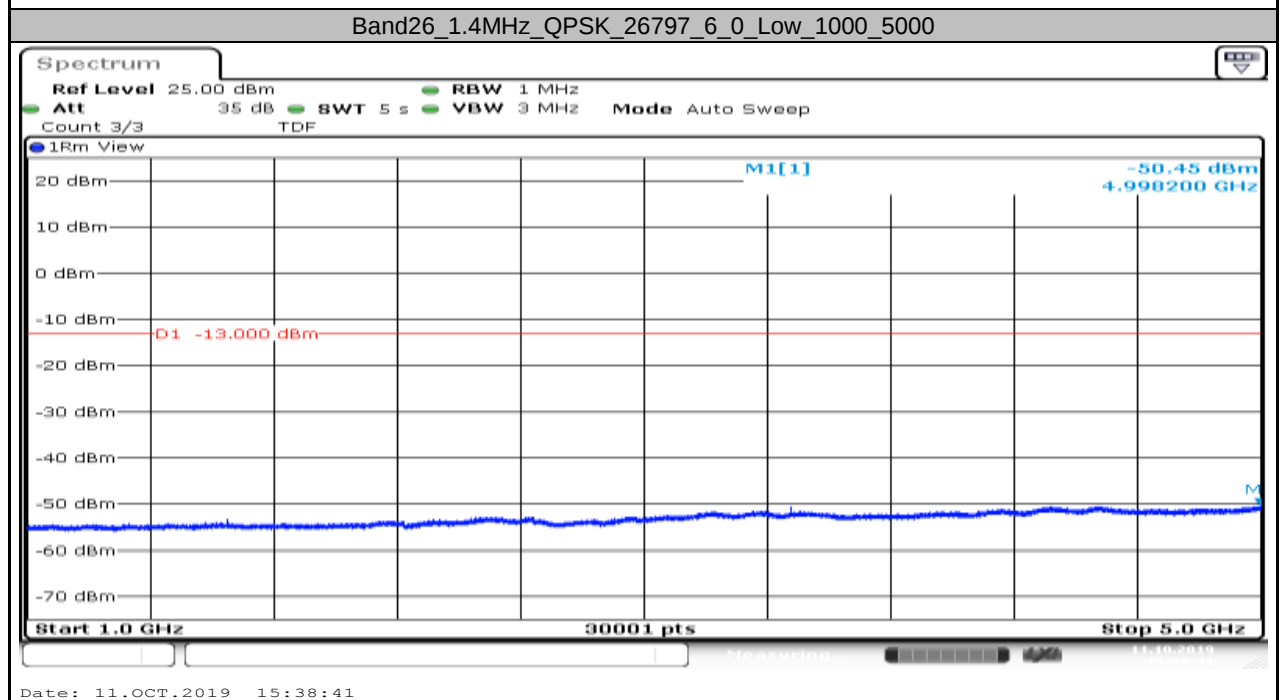
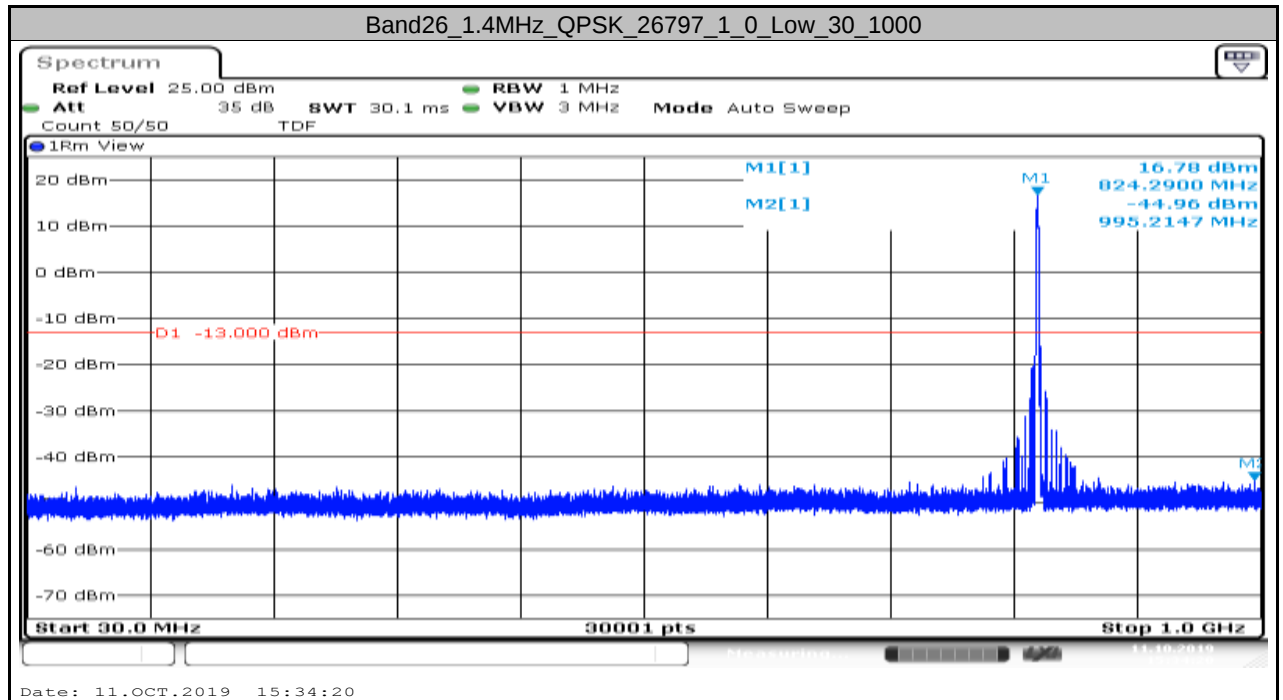
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Start Freq | Stop Freq | Result (dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|------------|-----------|--------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26797   | 1       | 0        | Low      | 30         | 1000      | -44.96       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26797   | 6       | 0        | Low      | 1000       | 5000      | -50.45       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26797   | 6       | 0        | Low      | 5000       | 12000     | -63.25       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26797   | 6       | 0        | Low      | 12000      | 26500     | -59.58       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26797   | 6       | 0        | Low      | 30         | 1000      | -44.19       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26797   | 1       | 0        | Low      | 5000       | 12000     | -63.18       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26797   | 1       | 0        | Low      | 1000       | 5000      | -50.44       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26797   | 1       | 0        | Low      | 12000      | 26500     | -59.7        | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | 30         | 1000      | -45          | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | 1000       | 5000      | -50.28       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | 5000       | 12000     | -63.27       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 6       | 0        | Low      | 30         | 1000      | -40.28       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | 12000      | 26500     | -59.39       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 6       | 0        | Low      | 1000       | 5000      | -50.28       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 6       | 0        | Low      | 5000       | 12000     | -63.24       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 6       | 0        | Low      | 12000      | 26500     | -59.63       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 6       | 0        | Low      | 1000       | 5000      | -50.35       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 1       | 5        | Low      | 5000       | 12000     | -63.34       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 6       | 0        | Low      | 12000      | 26500     | -59.64       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 1       | 5        | Low      | 1000       | 5000      | -50.34       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 1       | 5        | Low      | 30         | 1000      | -45.15       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 1       | 5        | Low      | 12000      | 26500     | -59.56       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 6       | 0        | Low      | 30         | 1000      | -43.98       | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 6       | 0        | Low      | 5000       | 12000     | -63.23       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 6       | 0        | Low      | 12000      | 26500     | -59.5        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 1       | 0        | Low      | 1000       | 5000      | -50.41       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 1       | 0        | Low      | 5000       | 12000     | -63.34       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 1       | 0        | Low      | 12000      | 26500     | -59.63       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 6       | 0        | Low      | 30         | 1000      | -45.38       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26797   | 1       | 0        | Low      | 30         | 1000      | -44.95       | PASS    |
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| Band26 | 1.4MHz    | 16QAM      | 26797   | 6       | 0        | Low      | 1000       | 5000      | -50.39       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 6       | 0        | Low      | 5000       | 12000     | -63.39       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 6       | 0        | Low      | 1000       | 5000      | -50.25       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 6       | 0        | Low      | 30         | 1000      | -42.35       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | 5000       | 12000     | -63.1        | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | 1000       | 5000      | -50.43       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | 30         | 1000      | -42.06       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 6       | 0        | Low      | 12000      | 26500     | -59.45       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | 12000      | 26500     | -59.63       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 1       | 5        | Low      | 30         | 1000      | -42.49       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 1       | 5        | Low      | 1000       | 5000      | -50.48       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 1       | 5        | Low      | 12000      | 26500     | -59.58       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 6       | 0        | Low      | 30         | 1000      | -45.34       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 6       | 0        | Low      | 1000       | 5000      | -50.37       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 6       | 0        | Low      | 5000       | 12000     | -63.23       | PASS    |
| Band26 | 1.4MHz    | 16QAM      | 27033   | 6       | 0        | Low      | 12000      | 26500     | -59.39       | PASS    |

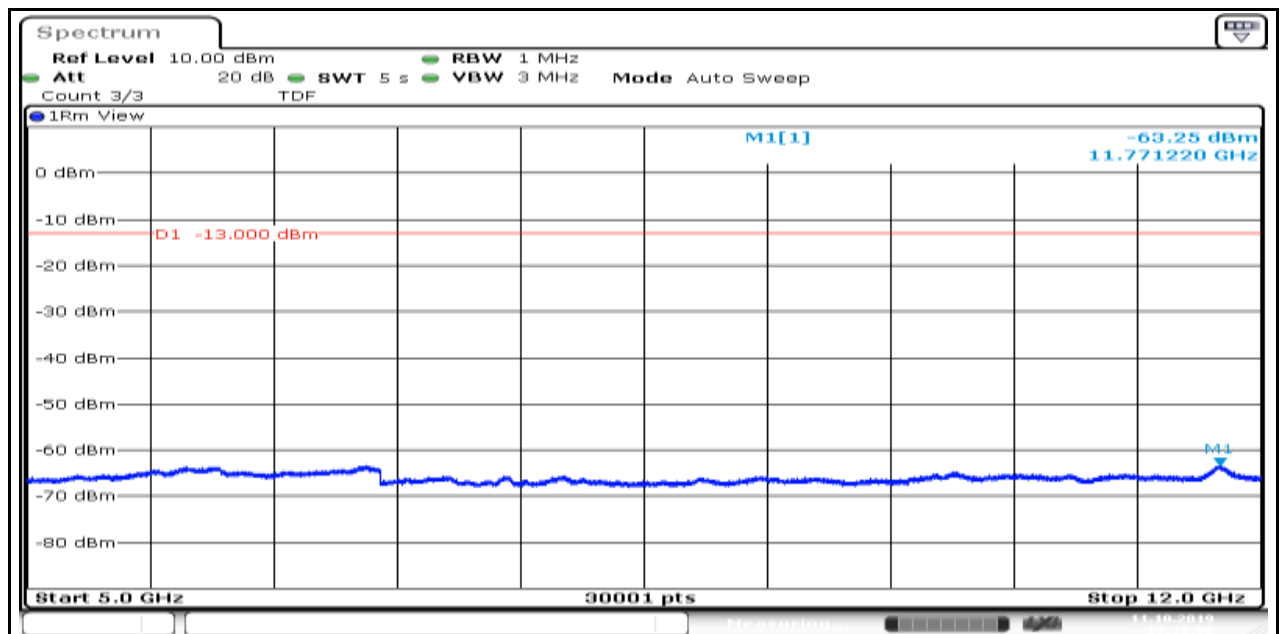
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|        |        |       |       |   |   |     |      |       |        |      |
|--------|--------|-------|-------|---|---|-----|------|-------|--------|------|
| Band26 | 1.4MHz | 16QAM | 27033 | 1 | 5 | Low | 5000 | 12000 | -63.41 | PASS |
|--------|--------|-------|-------|---|---|-----|------|-------|--------|------|

## Test Graphs

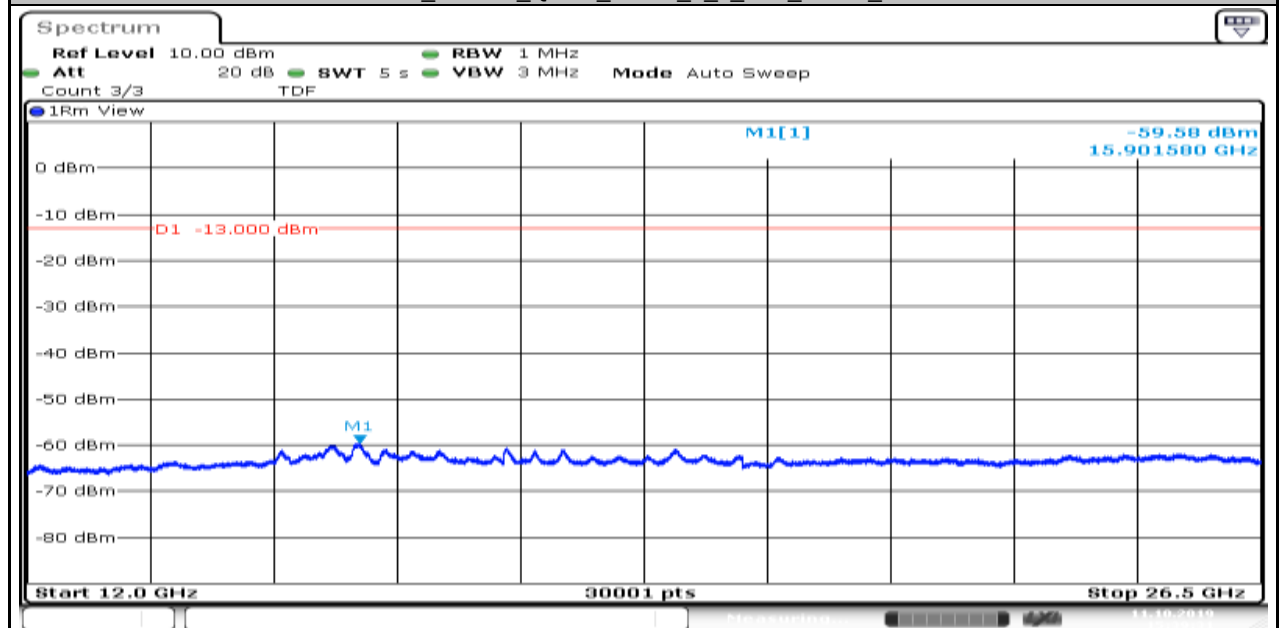


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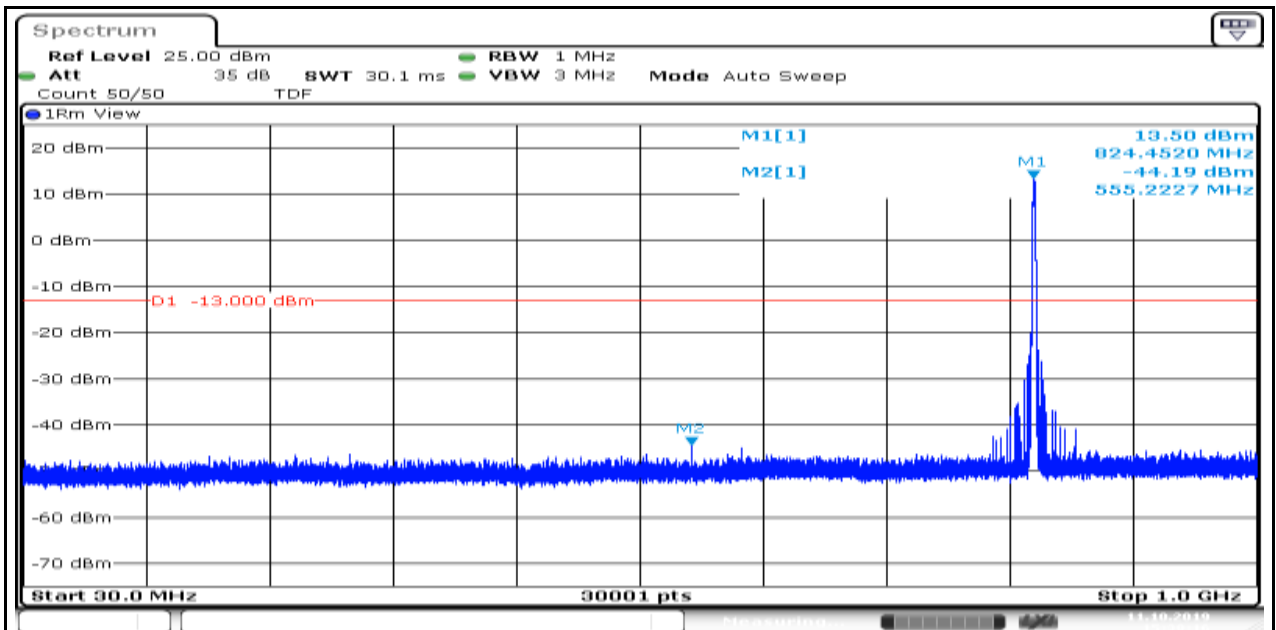
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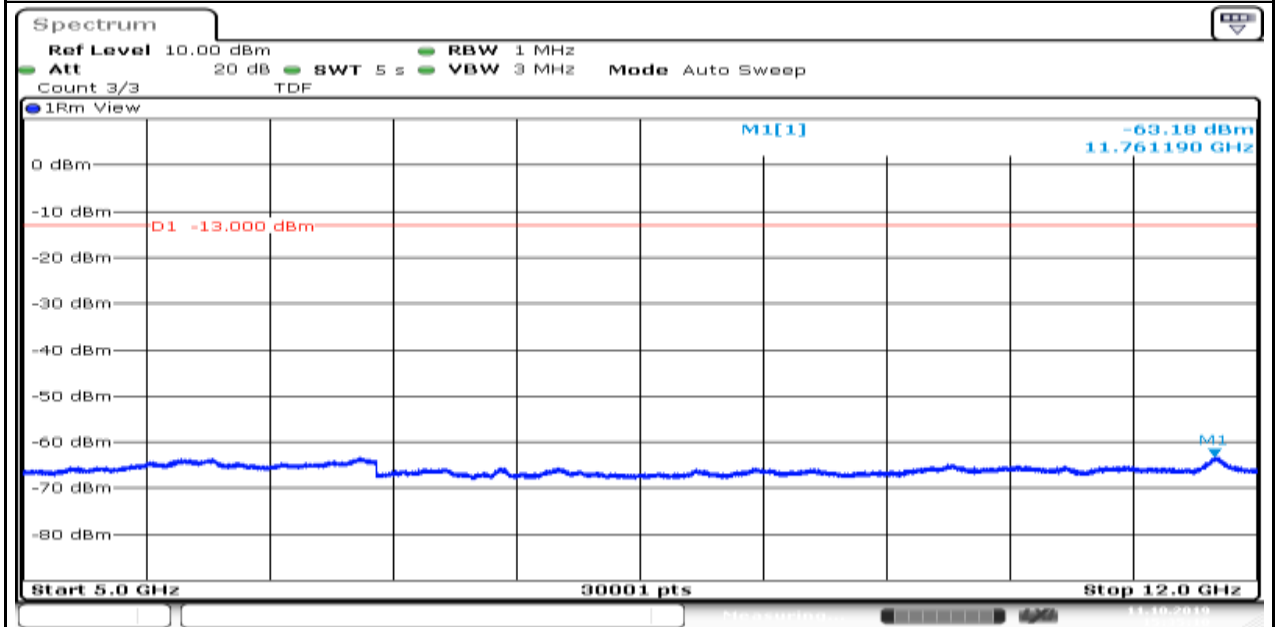


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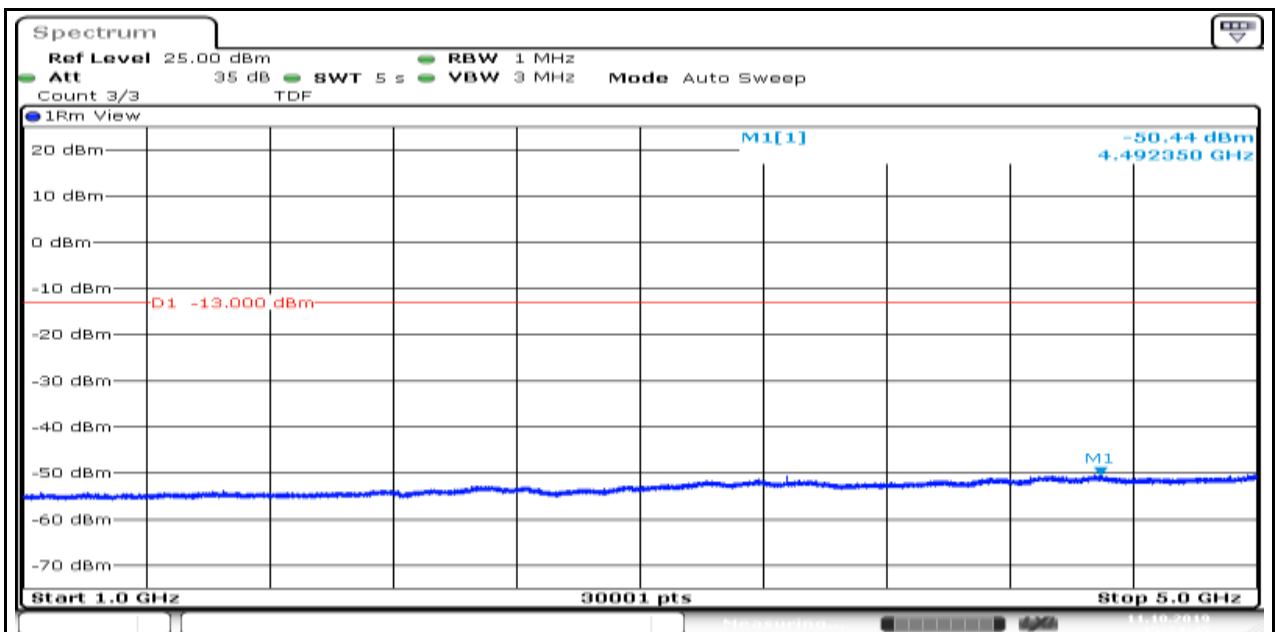
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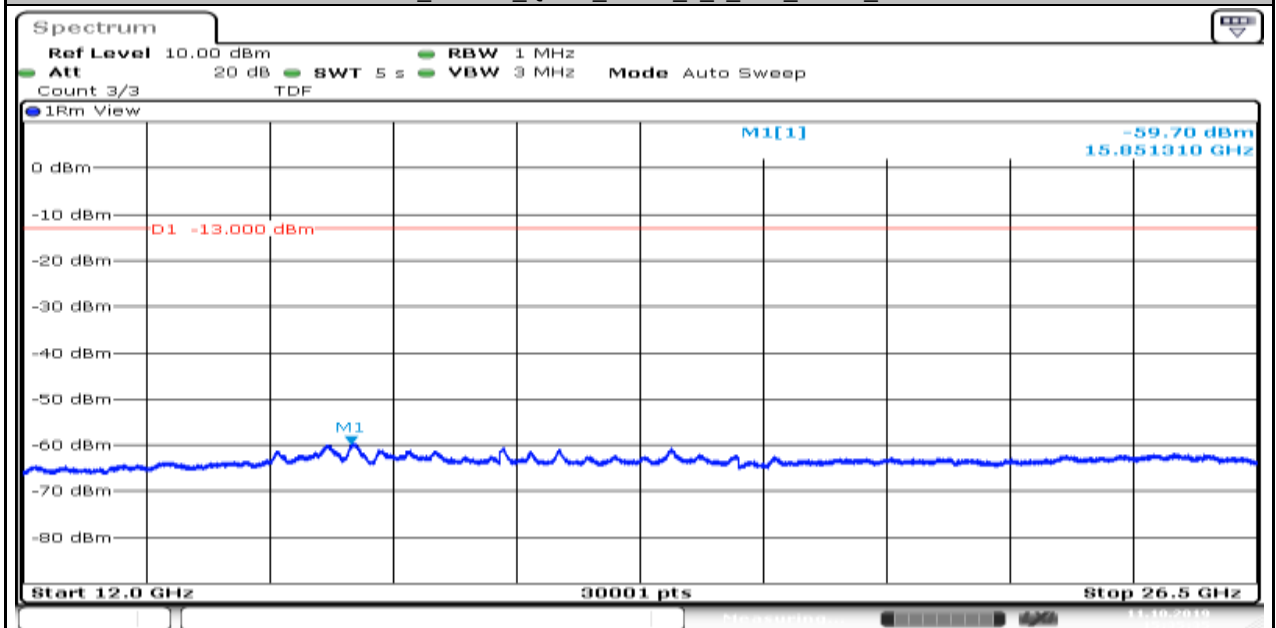
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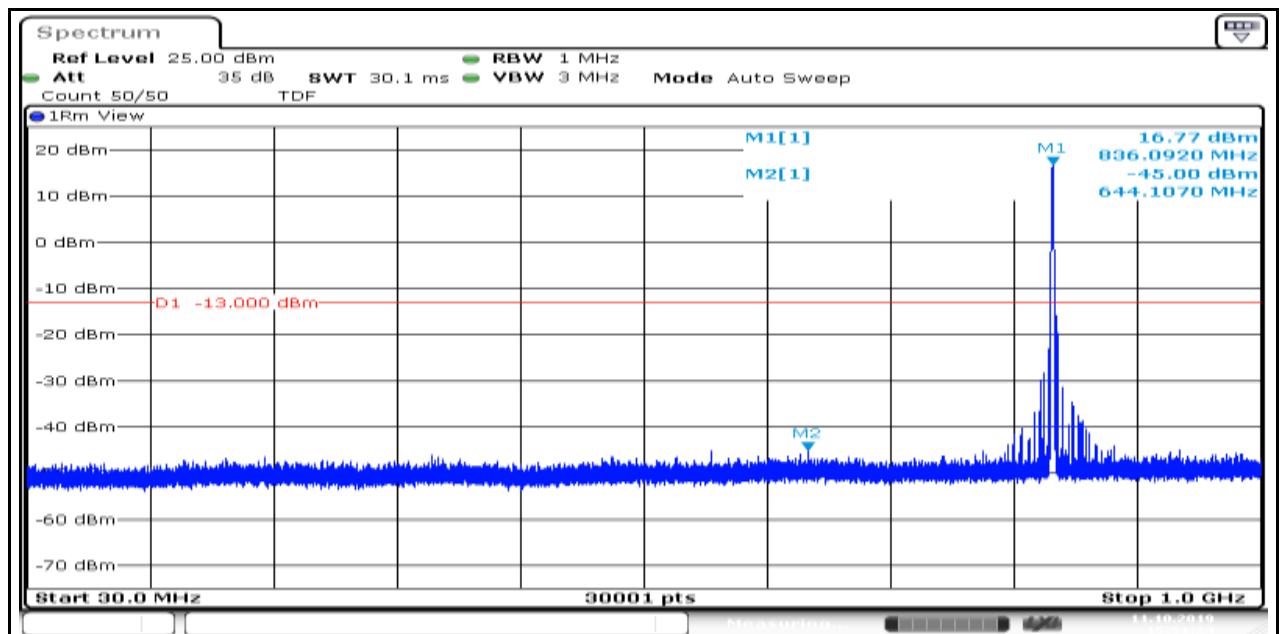
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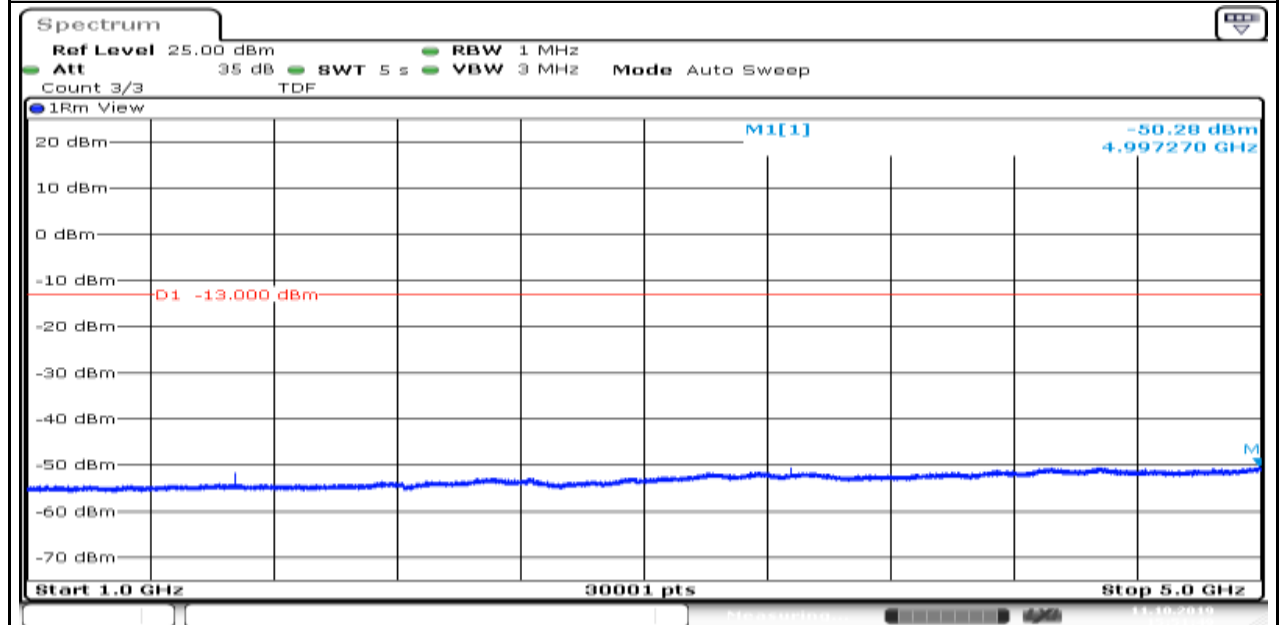
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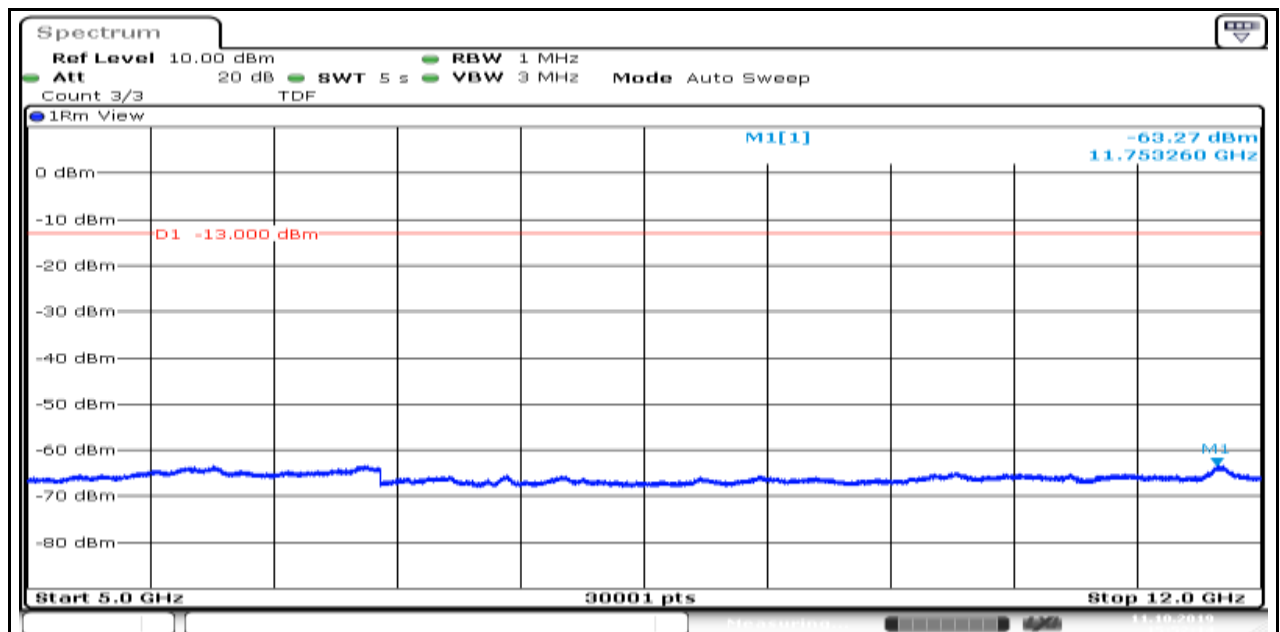
Band26\_1.4MHz\_QPSK\_26915\_1\_0\_Low\_30\_1000



Band26\_1.4MHz\_QPSK\_26915\_1\_0\_Low\_1000\_5000

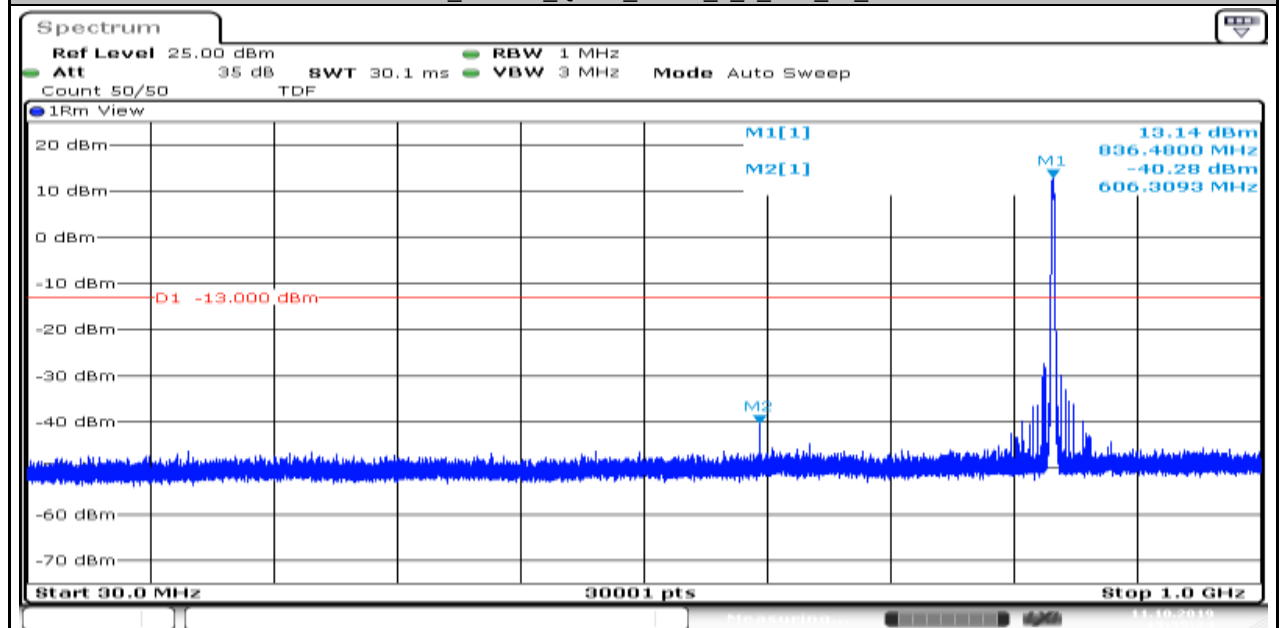


Band26\_1.4MHz\_QPSK\_26915\_1\_0\_Low\_5000\_12000



Date: 11.OCT.2019 15:52:14

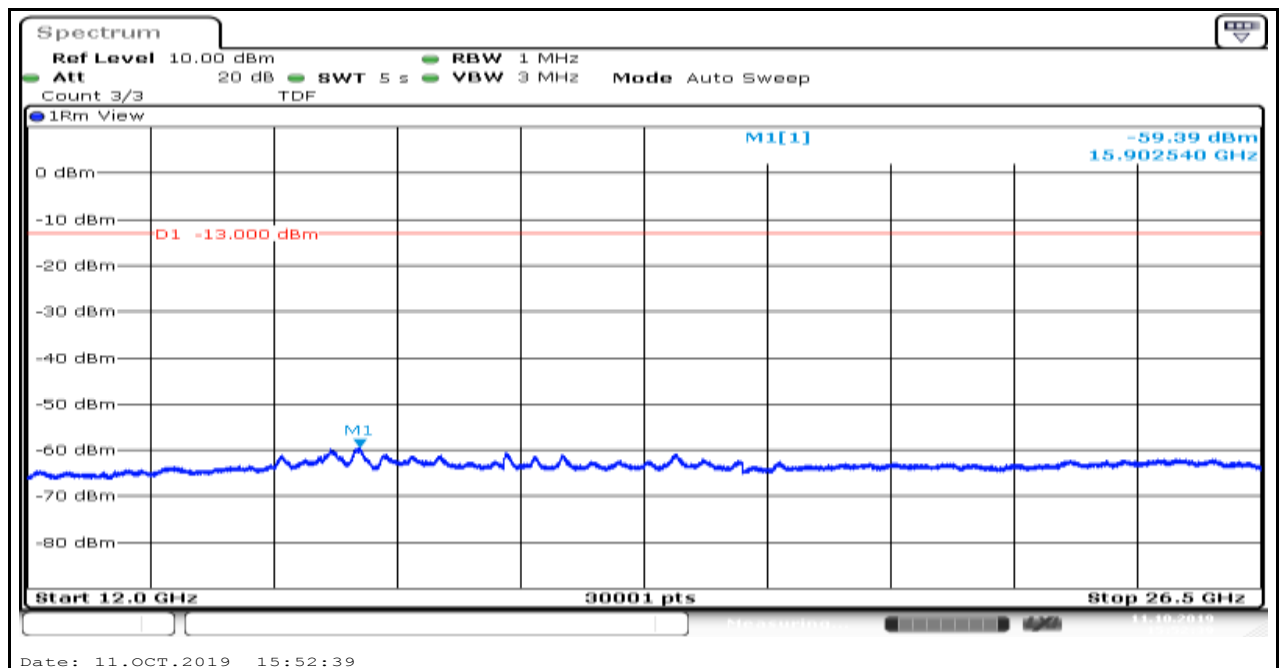
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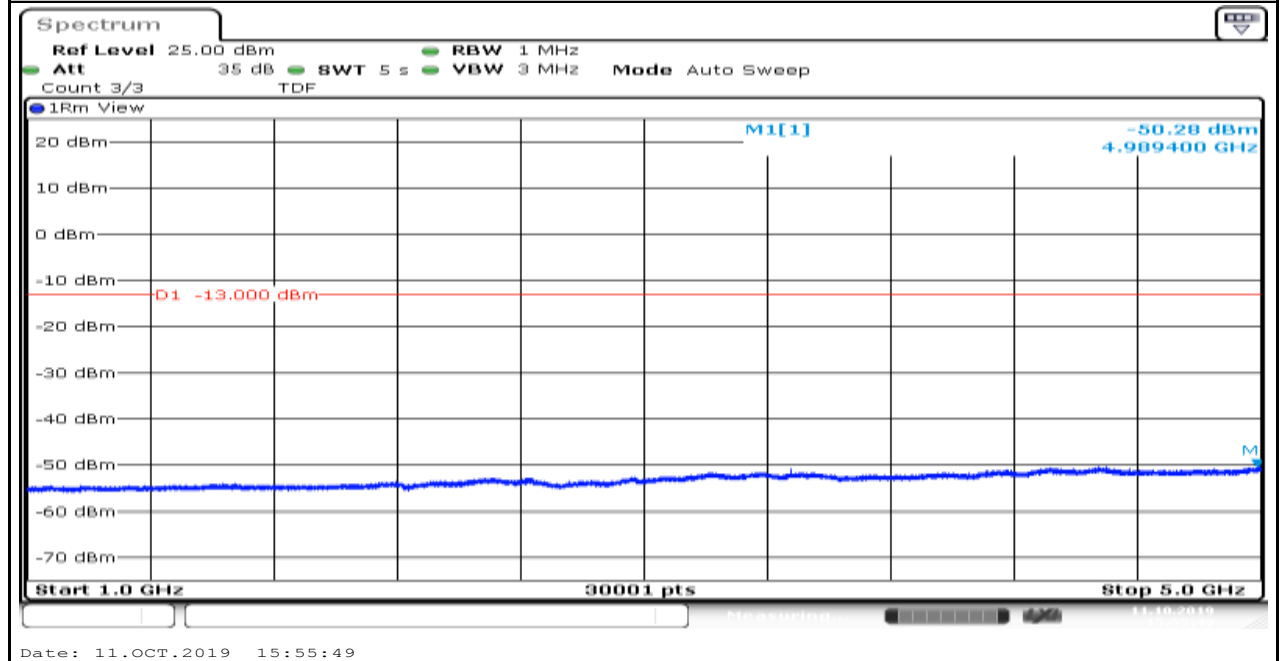
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Band26\_1.4MHz\_QPSK\_26915\_1\_0\_Low\_12000\_26500

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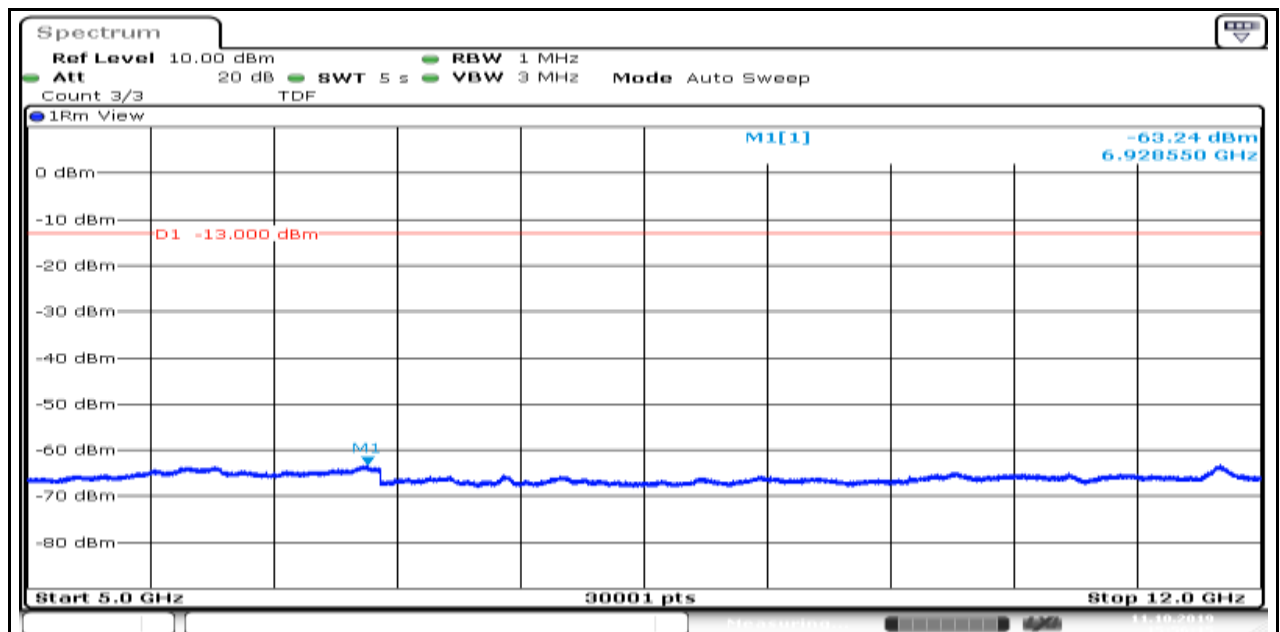


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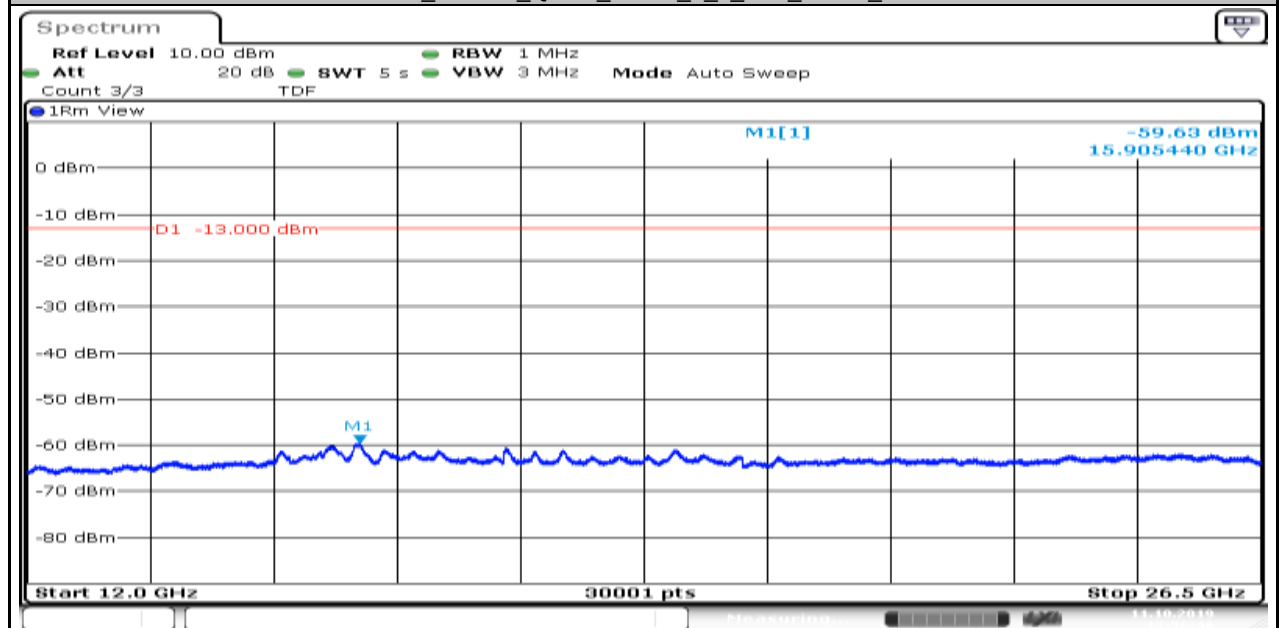
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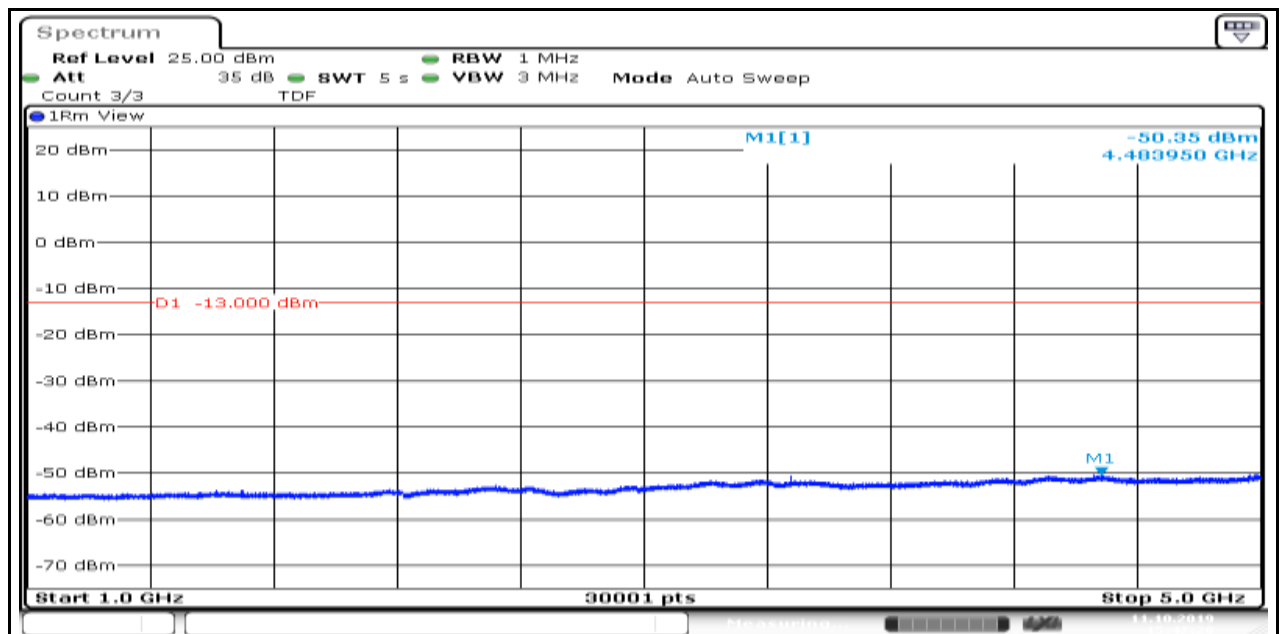
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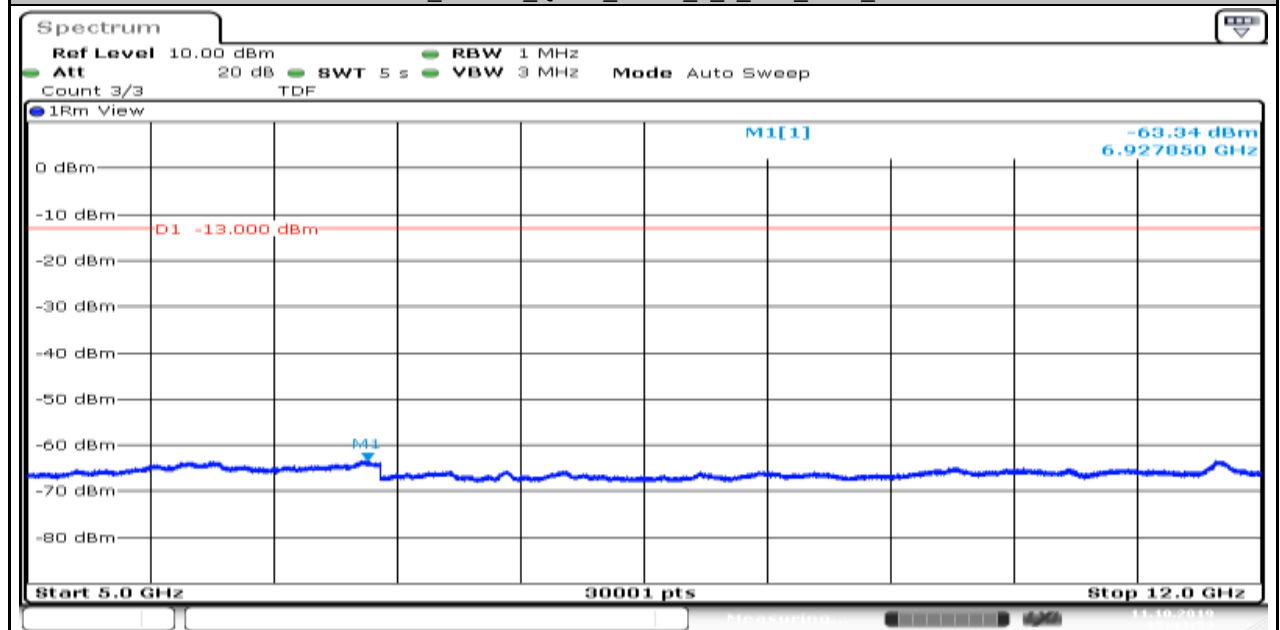


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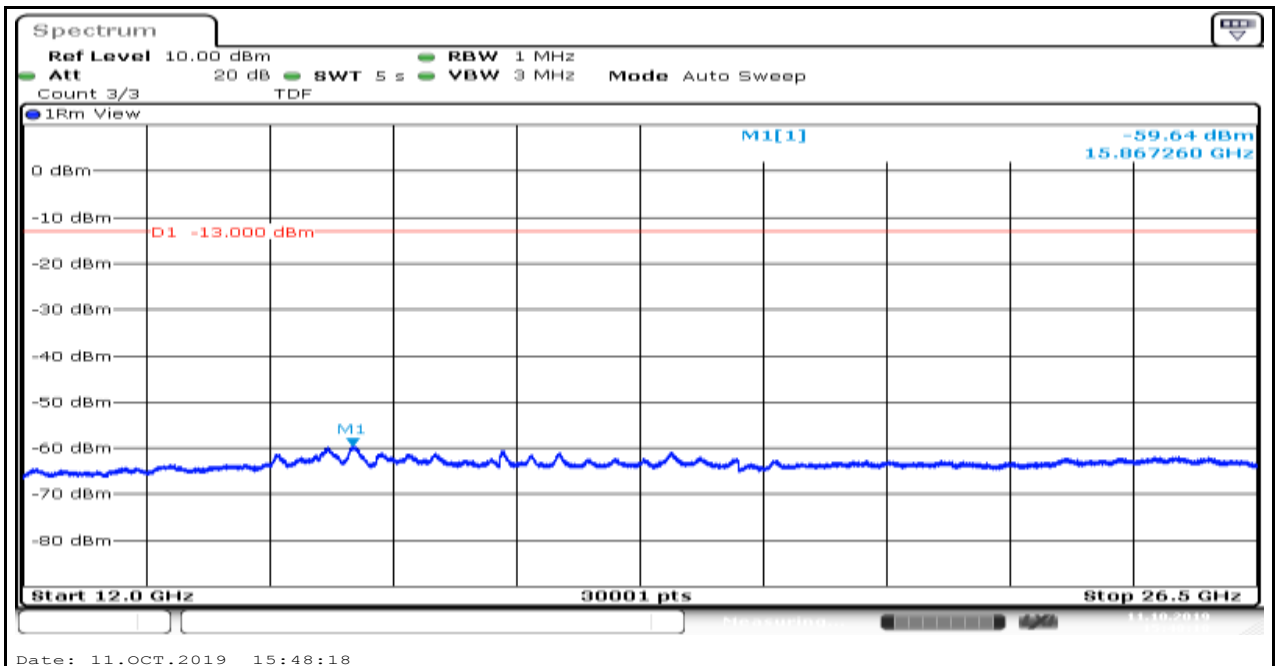


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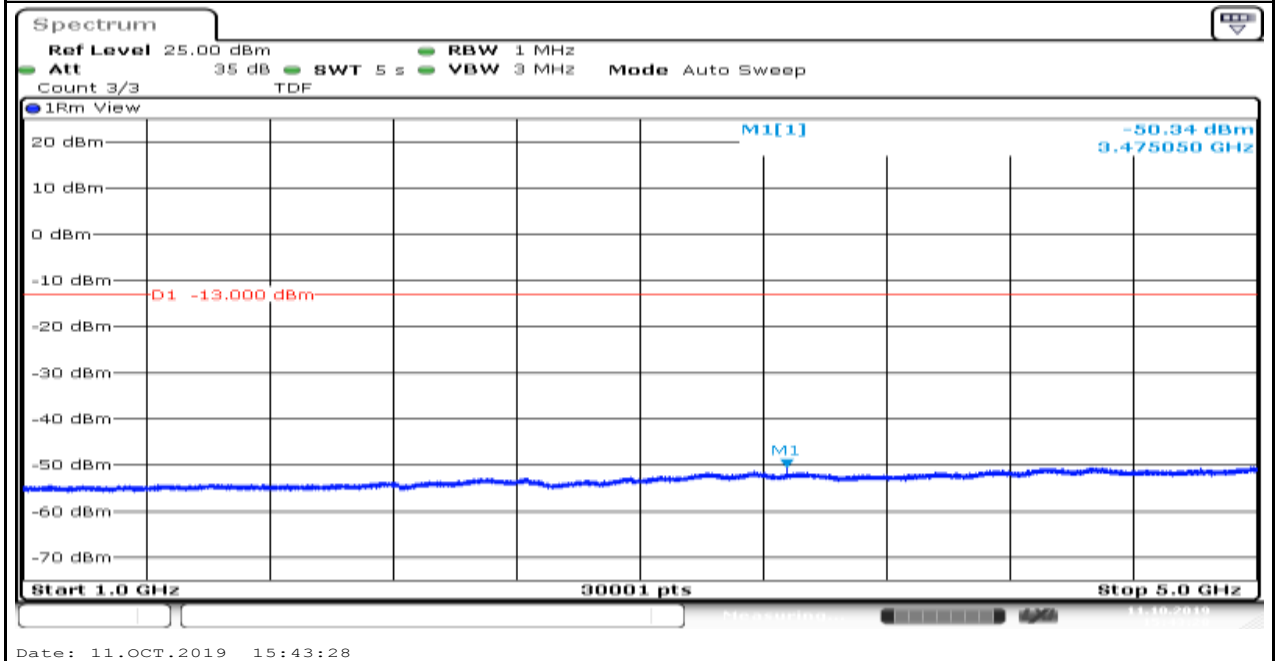


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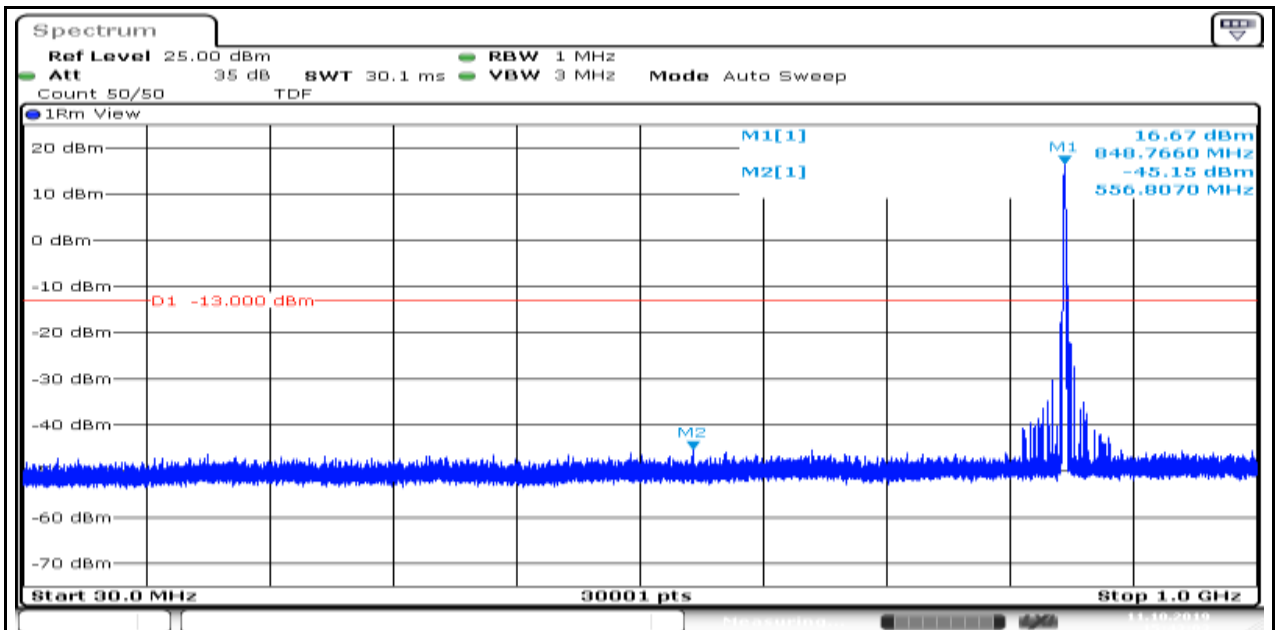
Produkte  
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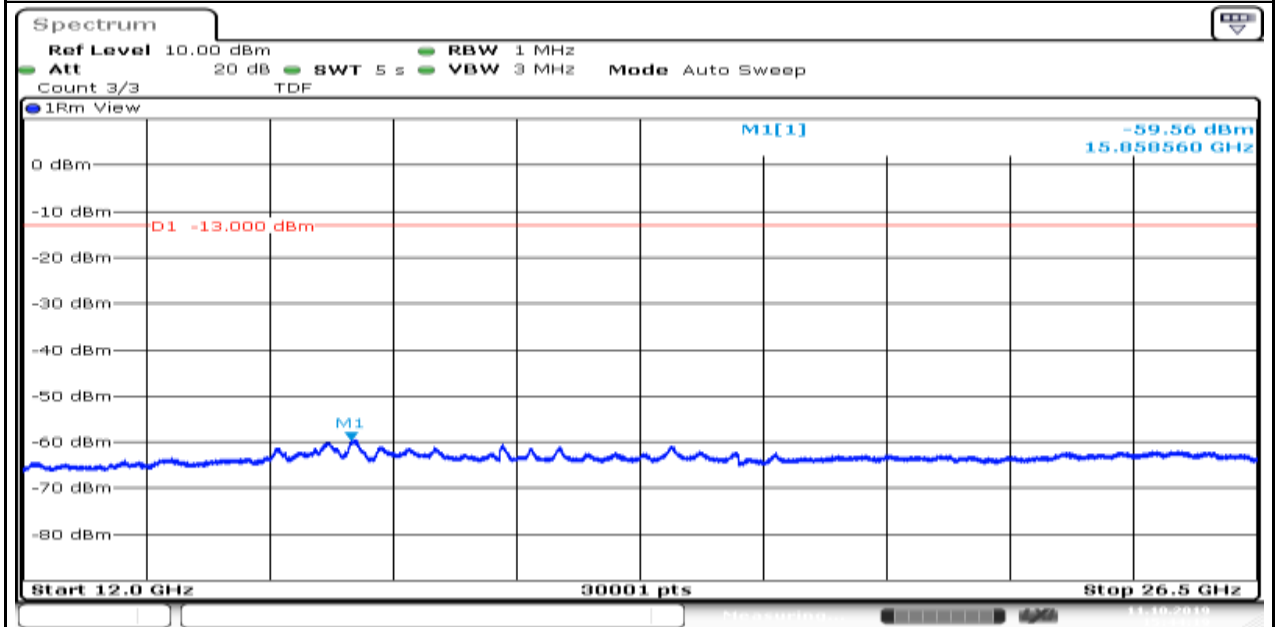
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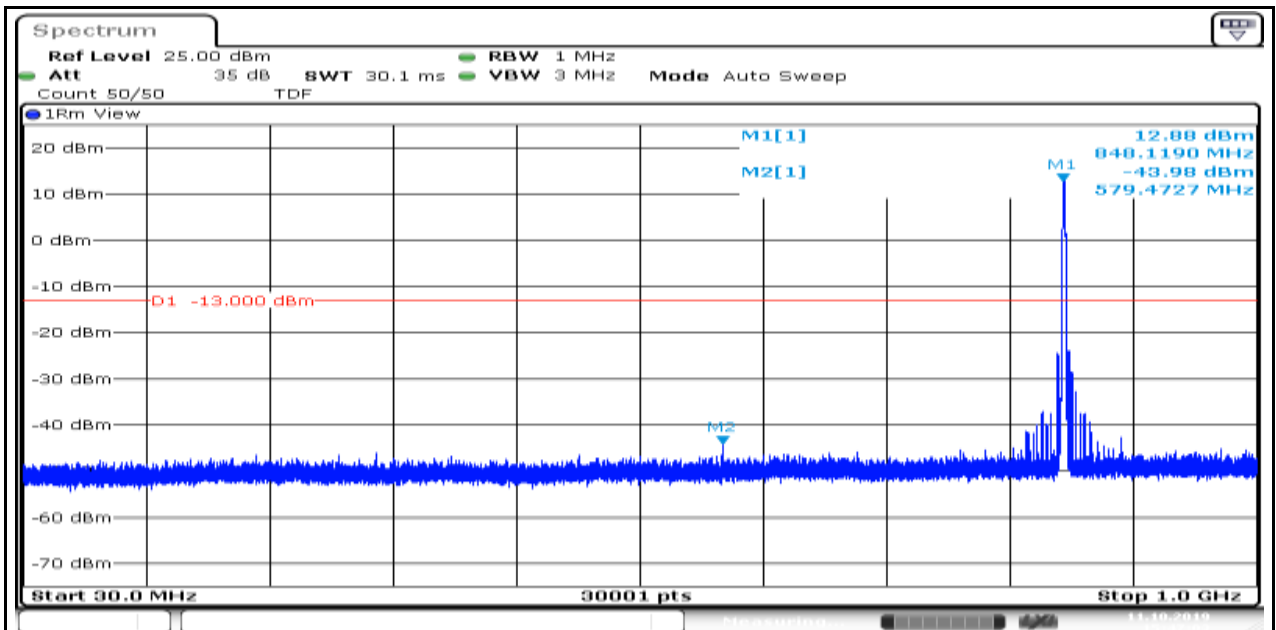
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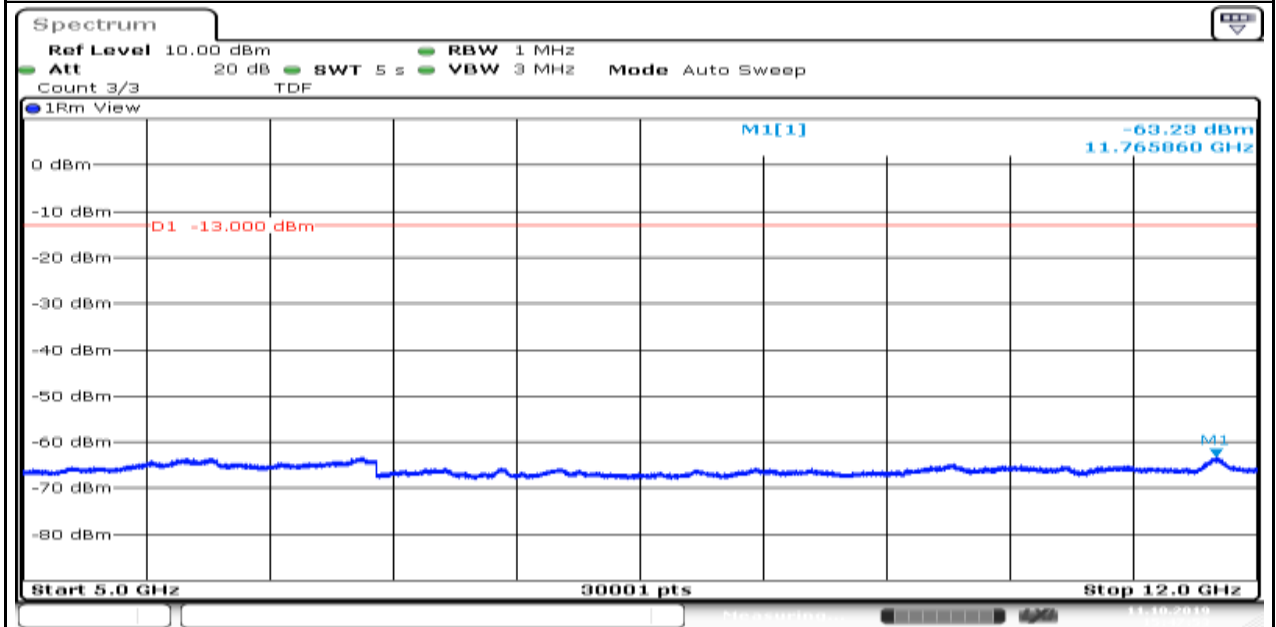
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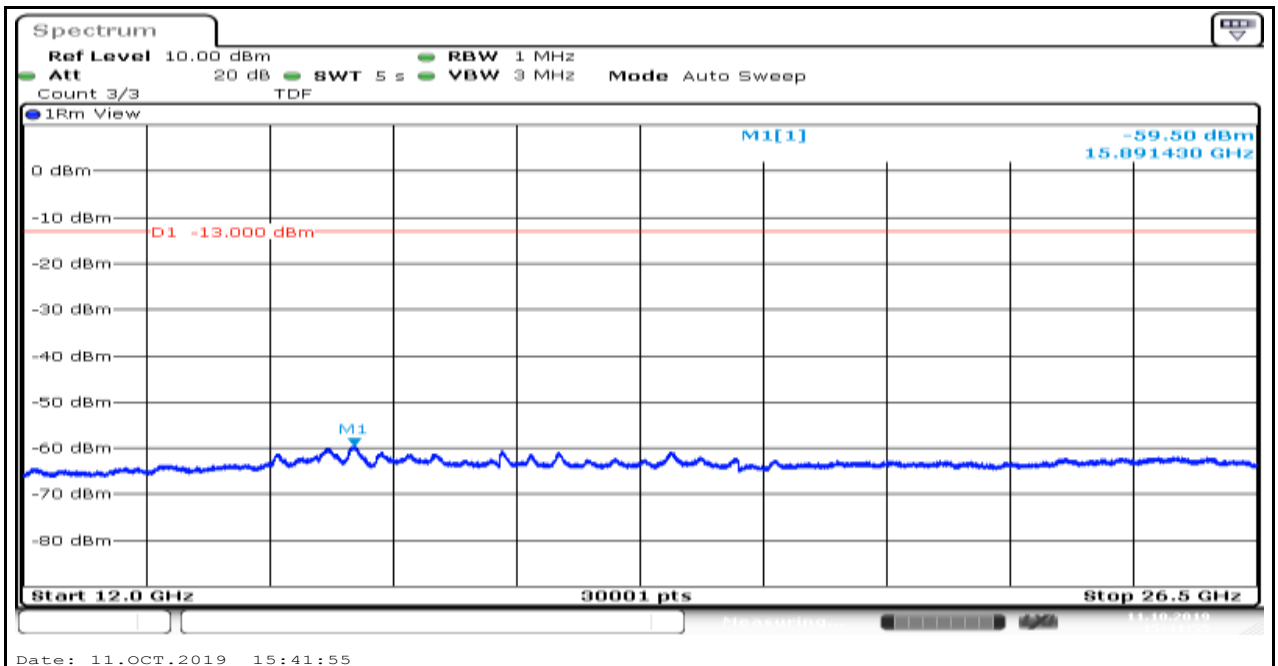


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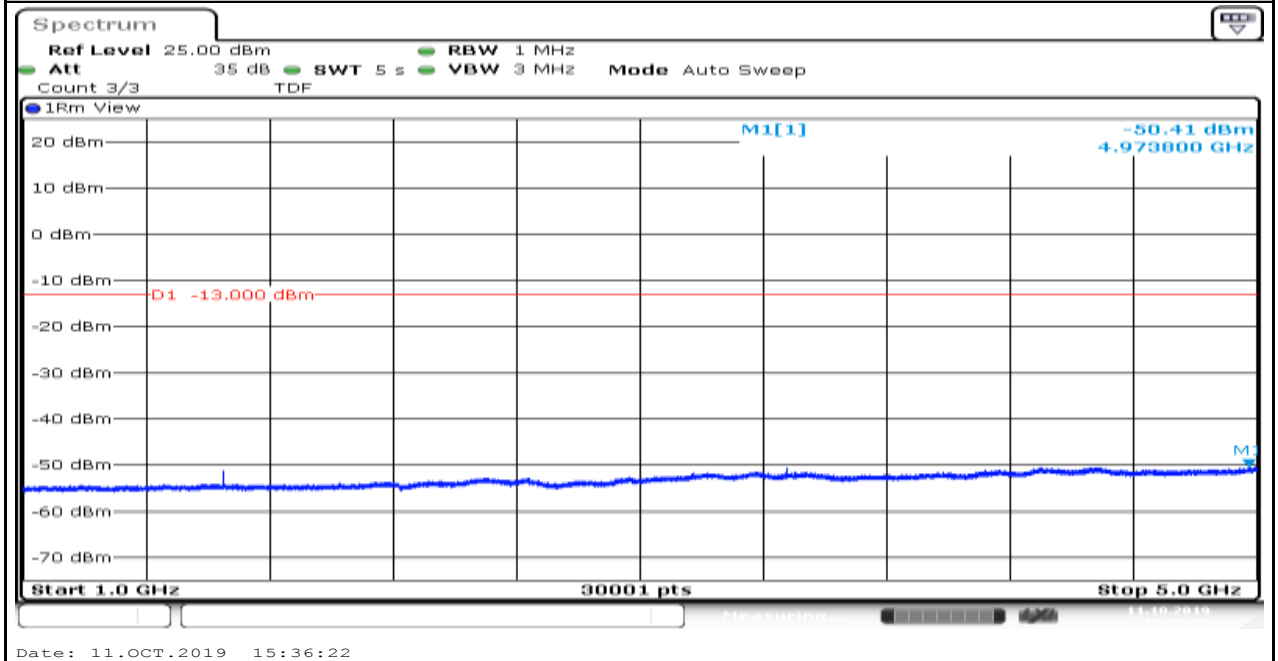


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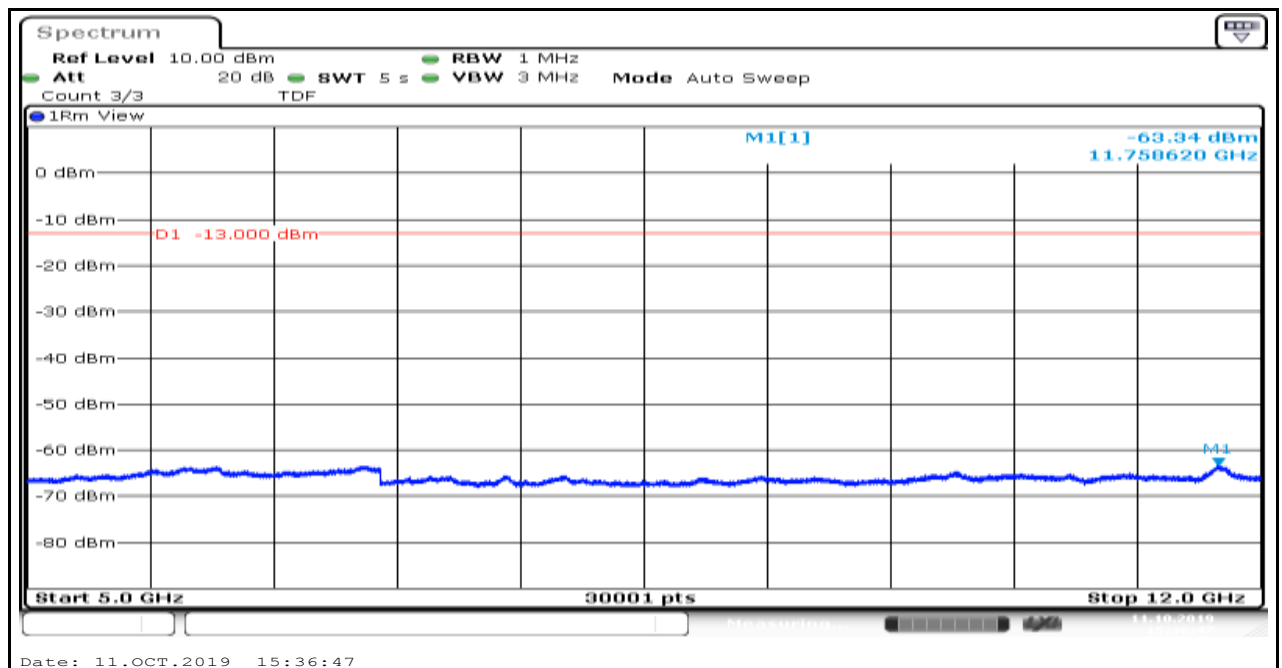
Produkte  
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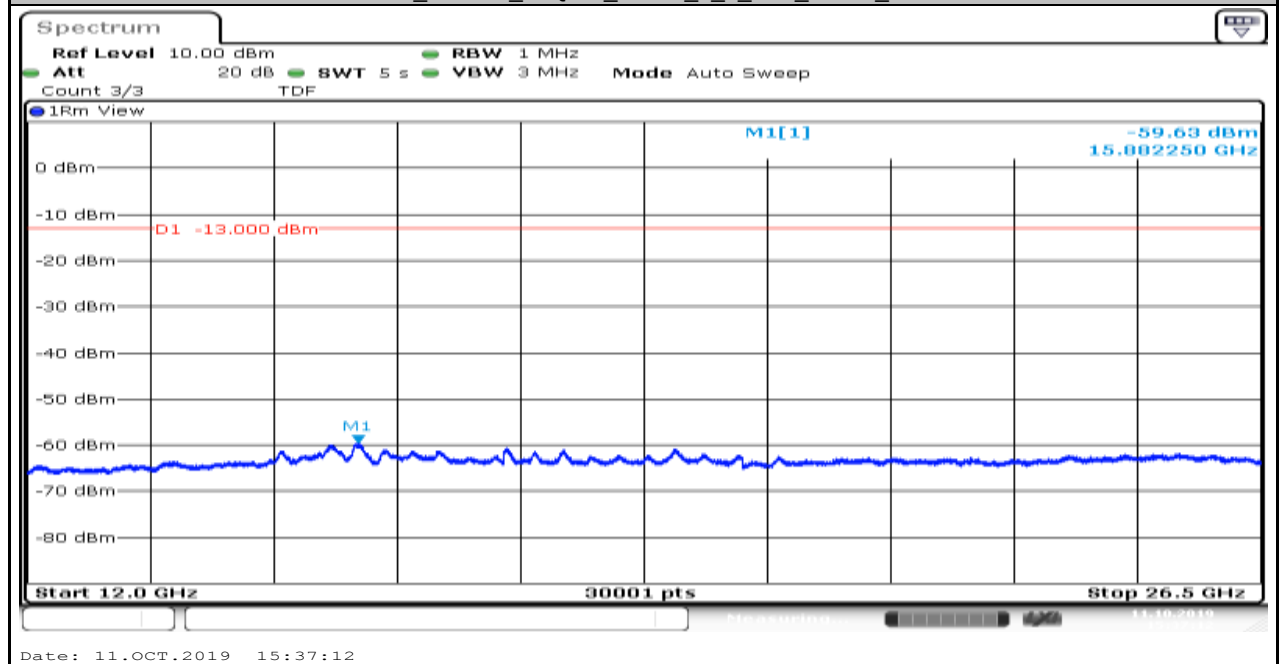
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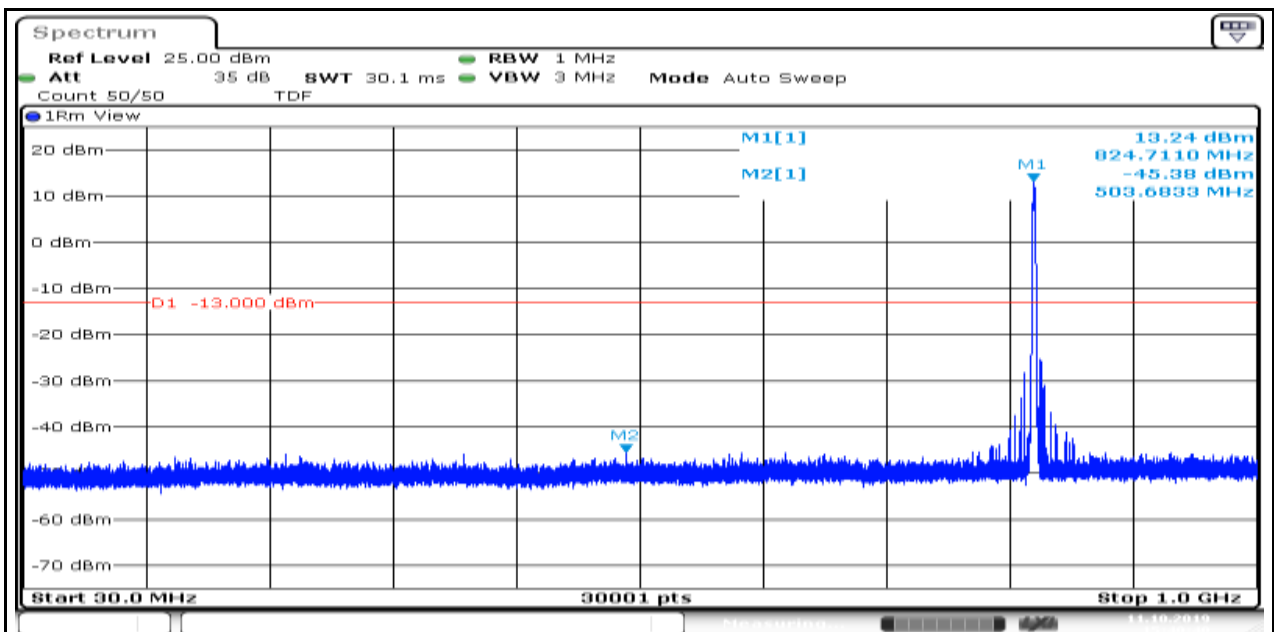
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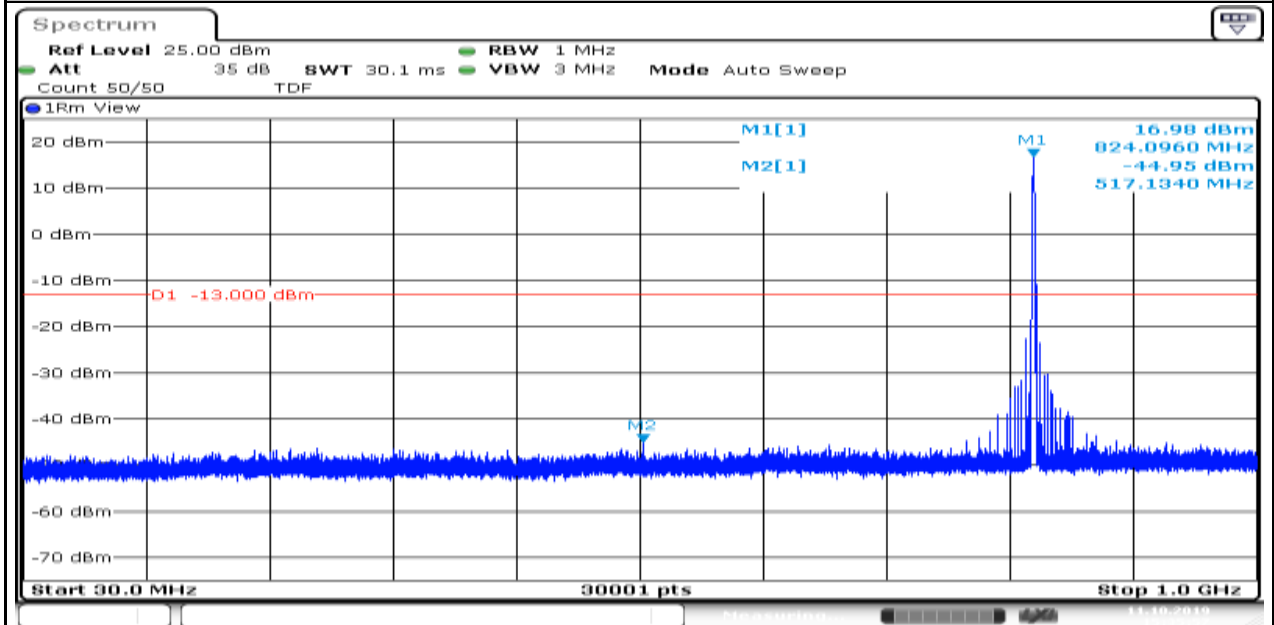


Band26\_1.4MHz\_16QAM\_26797\_6\_0\_Low\_30\_1000



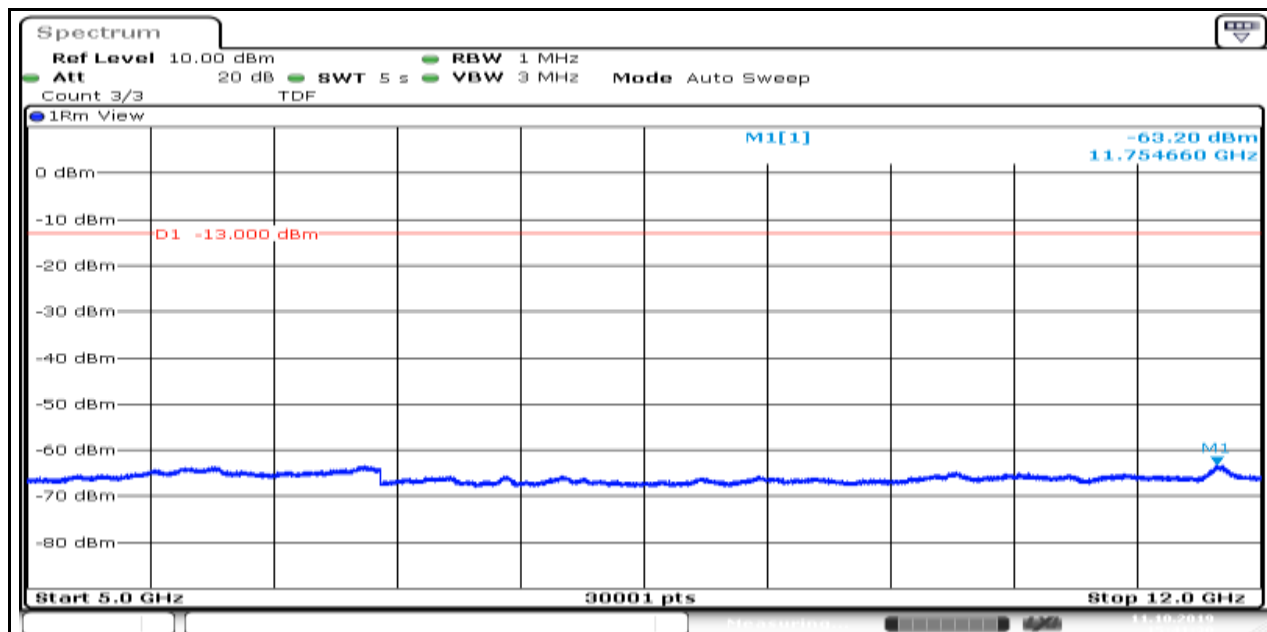
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|        |        |       |       |   |   |     |    |      |
|--------|--------|-------|-------|---|---|-----|----|------|
| Band26 | 1.4MHz | 16QAM | 26797 | 1 | 0 | Low | 30 | 1000 |
|--------|--------|-------|-------|---|---|-----|----|------|

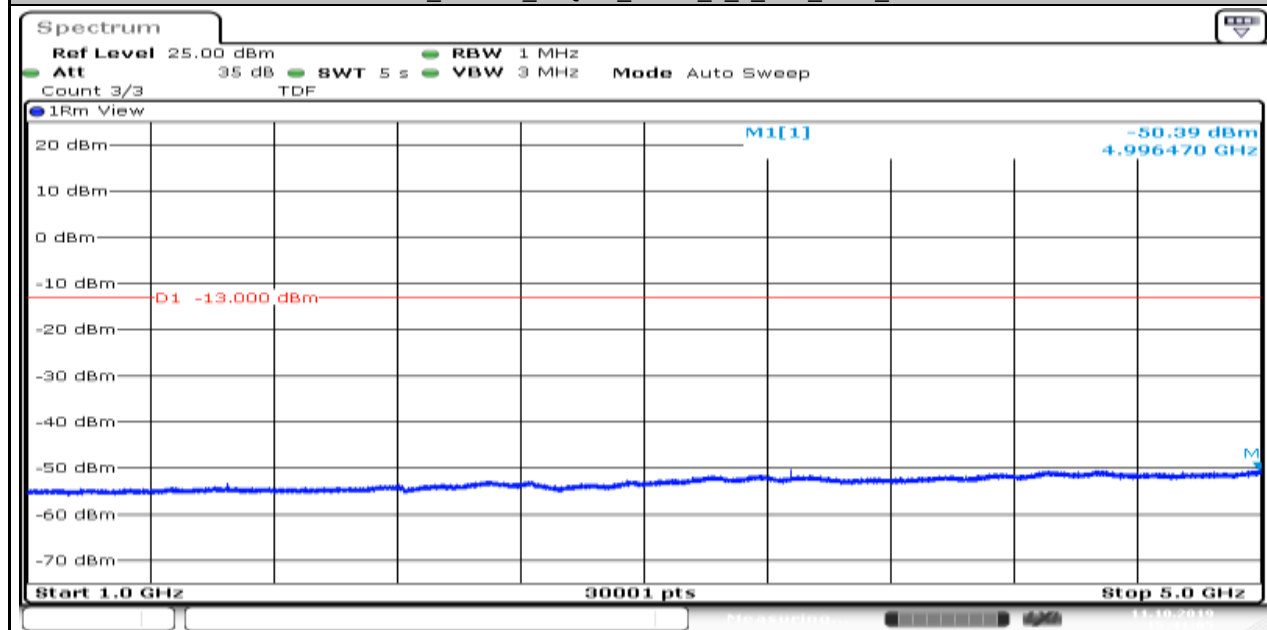


Date: 11.OCT.2019 15:35:57

|        |        |       |       |   |   |     |      |       |
|--------|--------|-------|-------|---|---|-----|------|-------|
| Band26 | 1.4MHz | 16QAM | 26797 | 6 | 0 | Low | 5000 | 12000 |
|--------|--------|-------|-------|---|---|-----|------|-------|

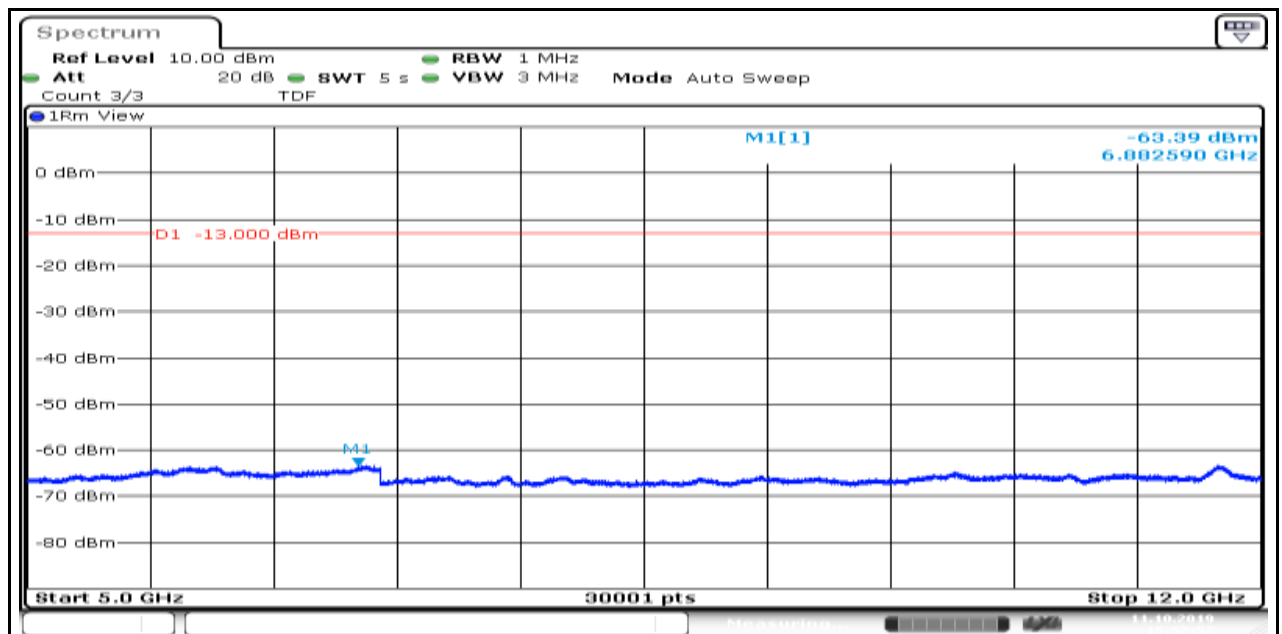


Band26\_1.4MHz\_16QAM\_26797\_6\_0\_Low\_1000\_5000



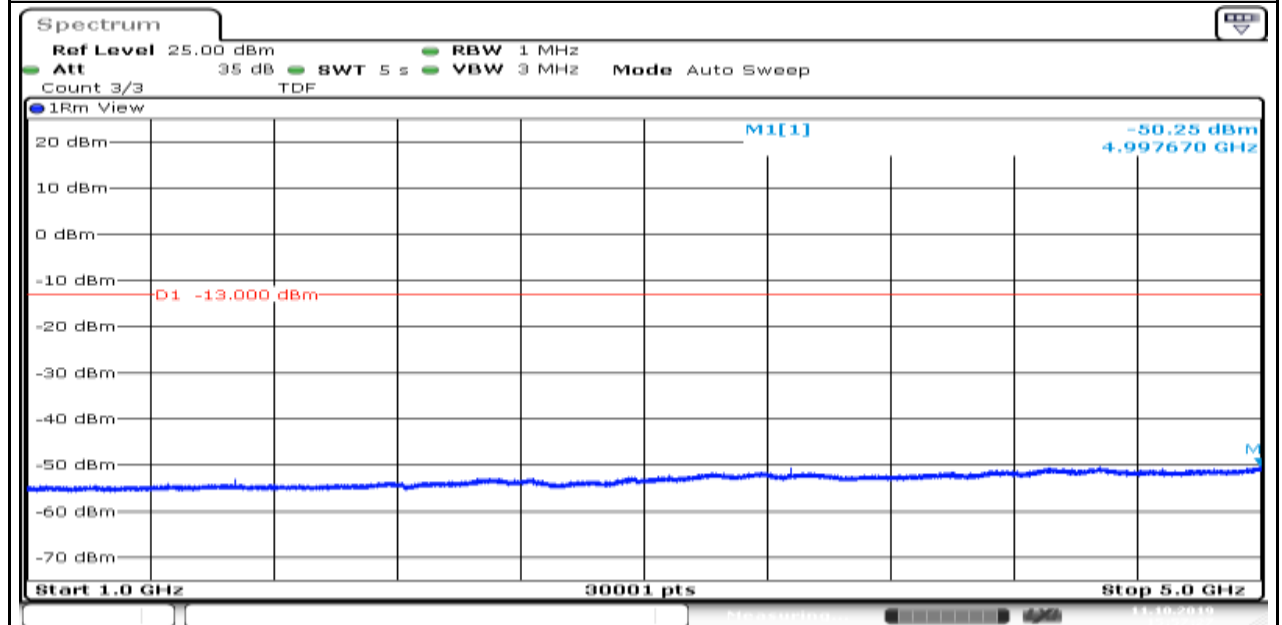
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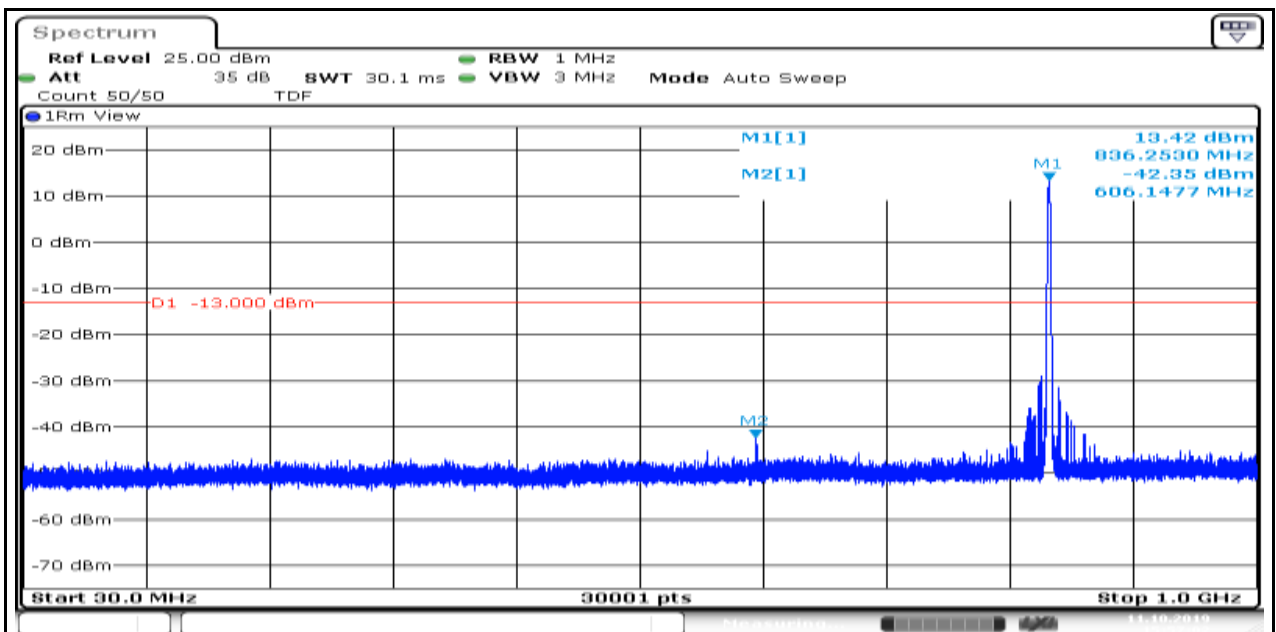
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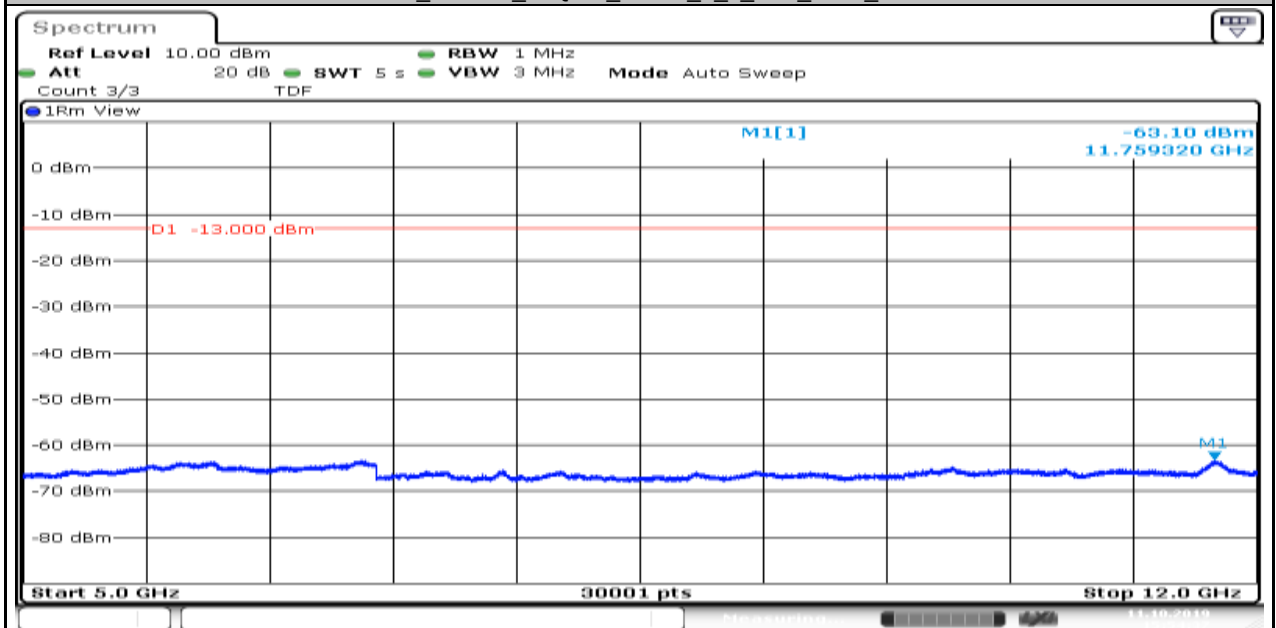
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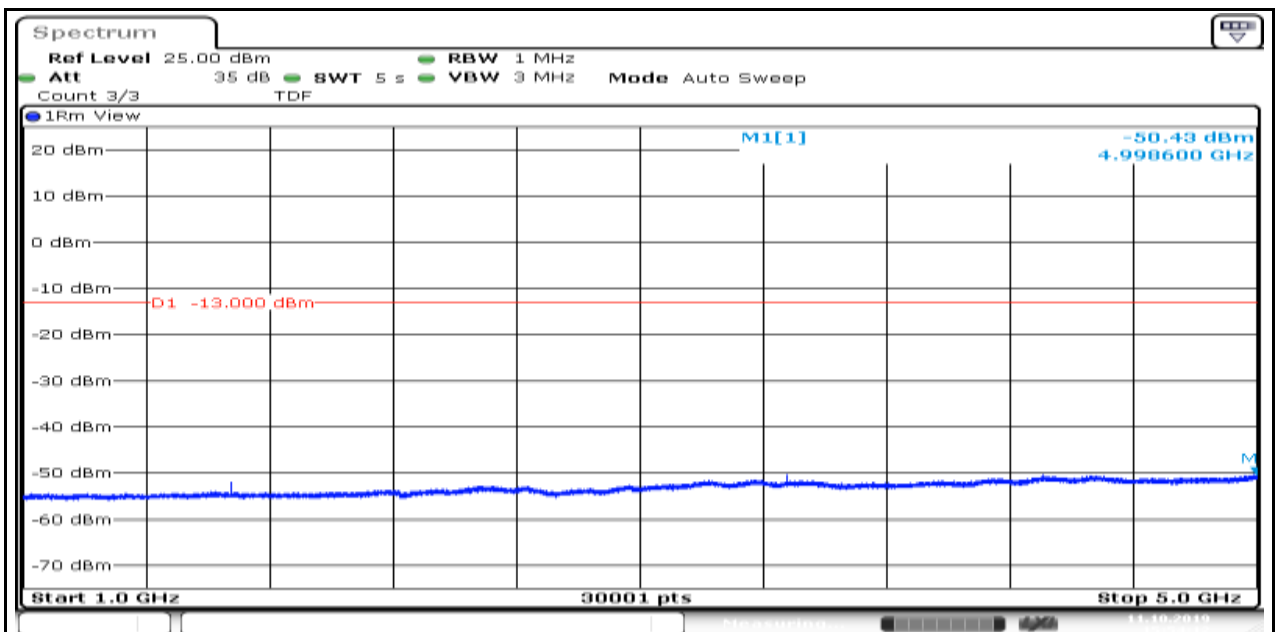
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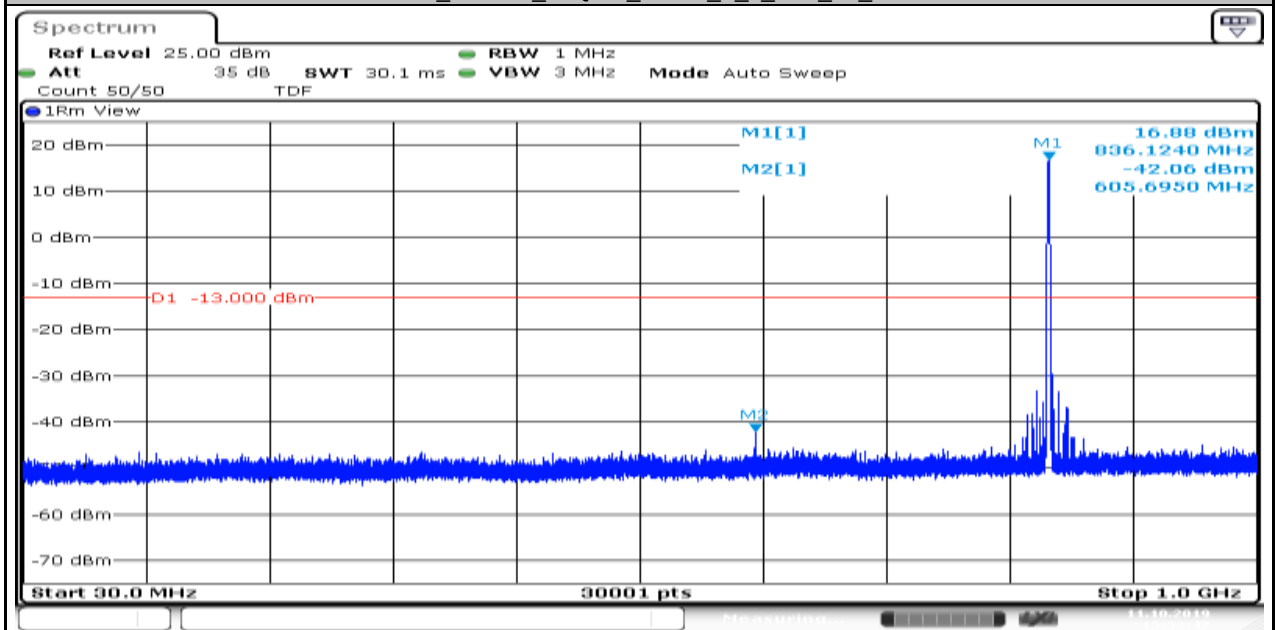
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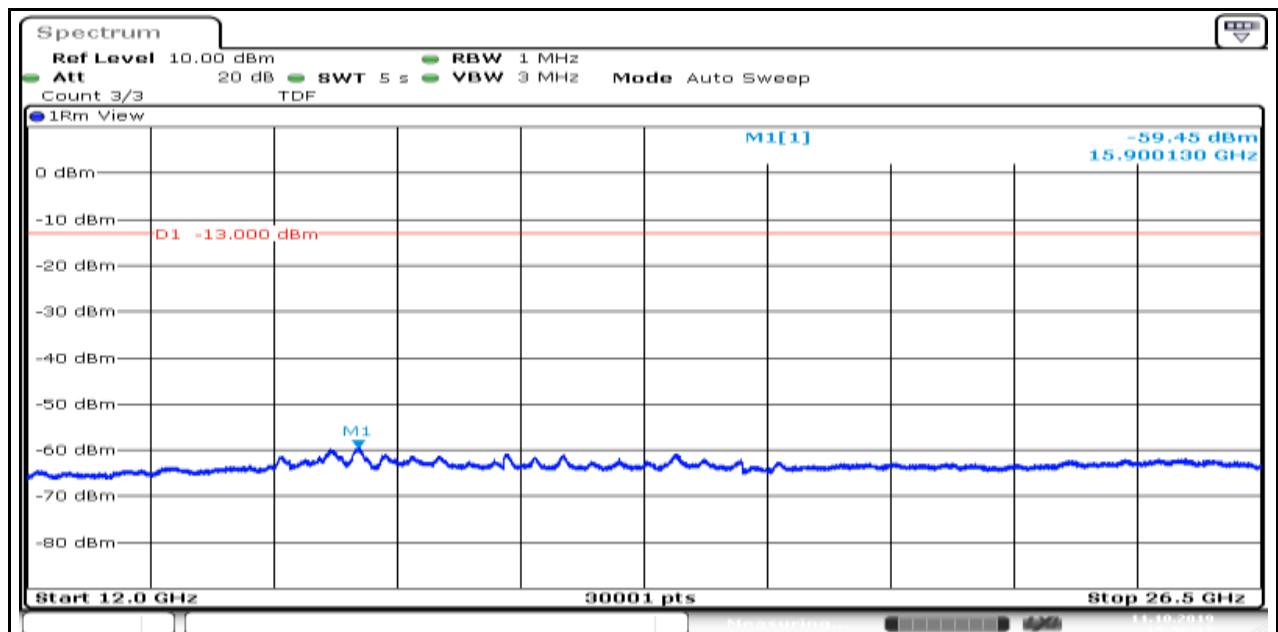
Produkte  
Products



Band26\_1.4MHz\_16QAM\_26915\_1\_0\_Low\_30\_1000

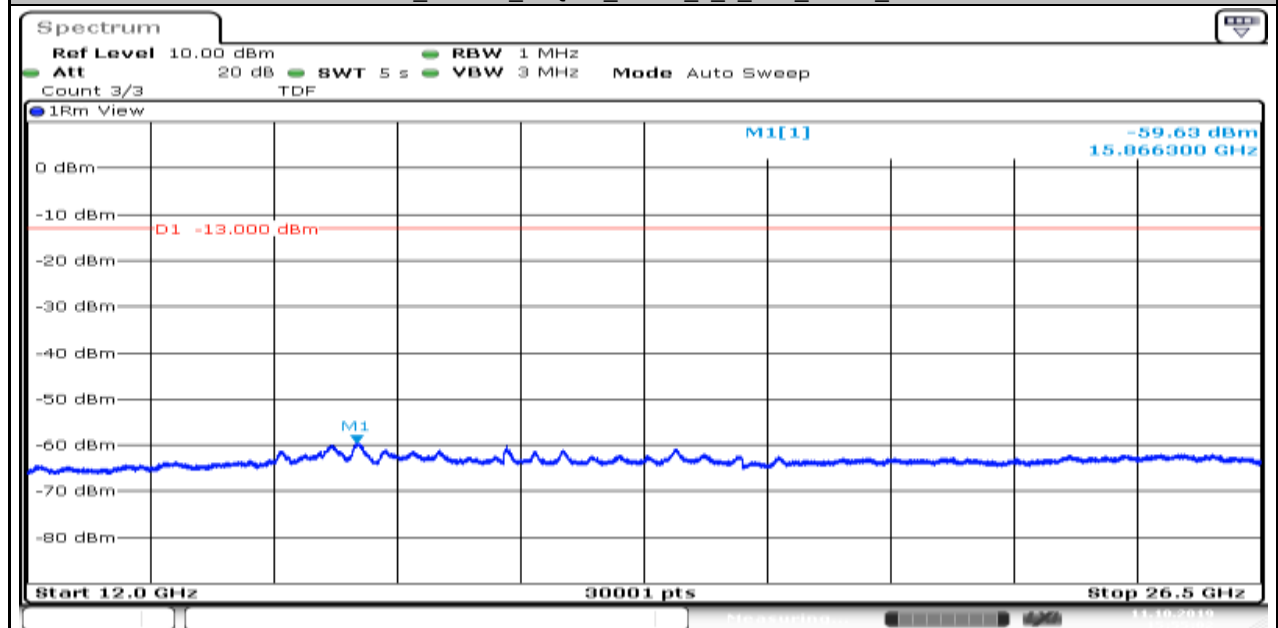


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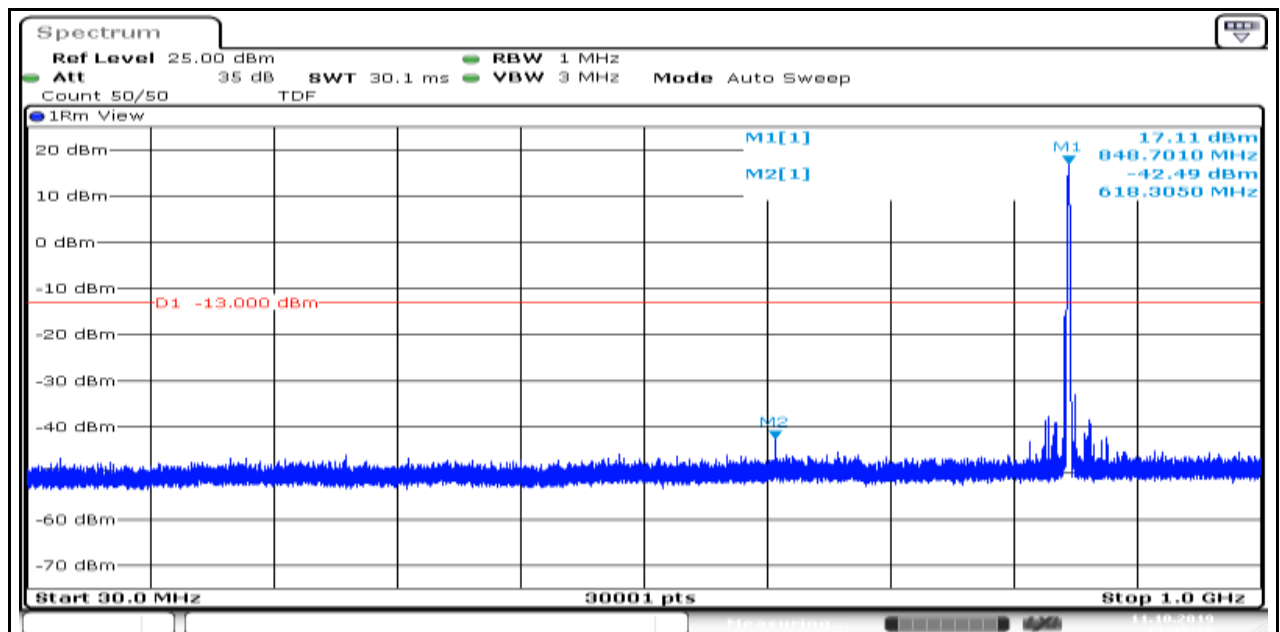
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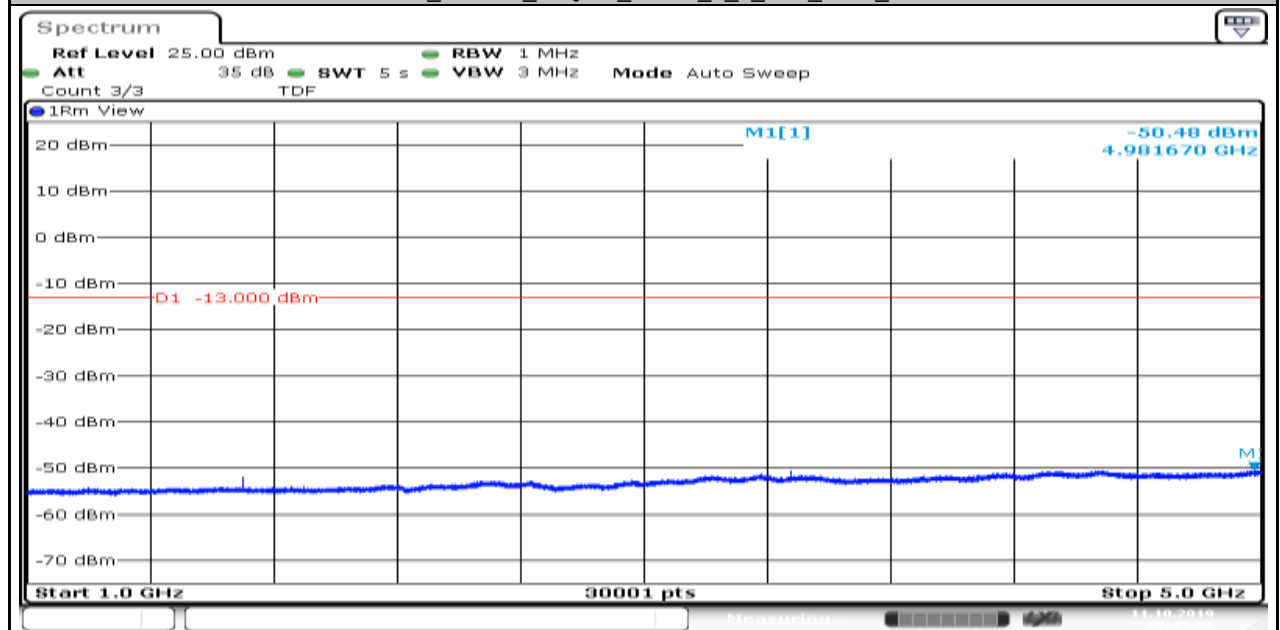


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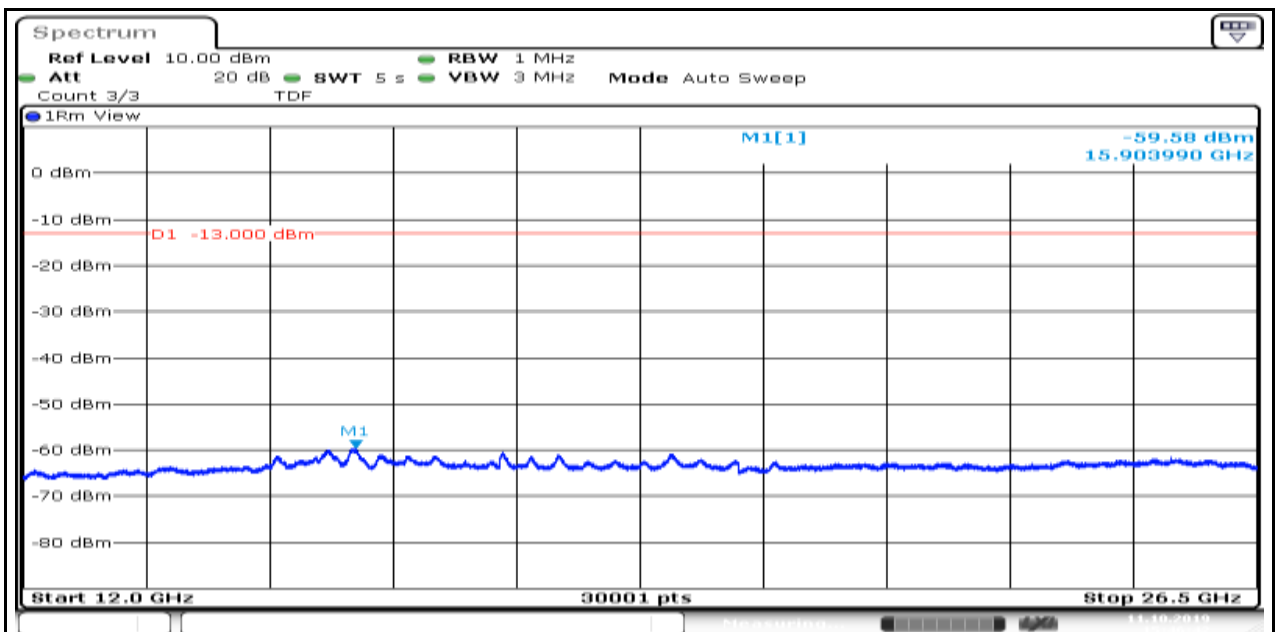
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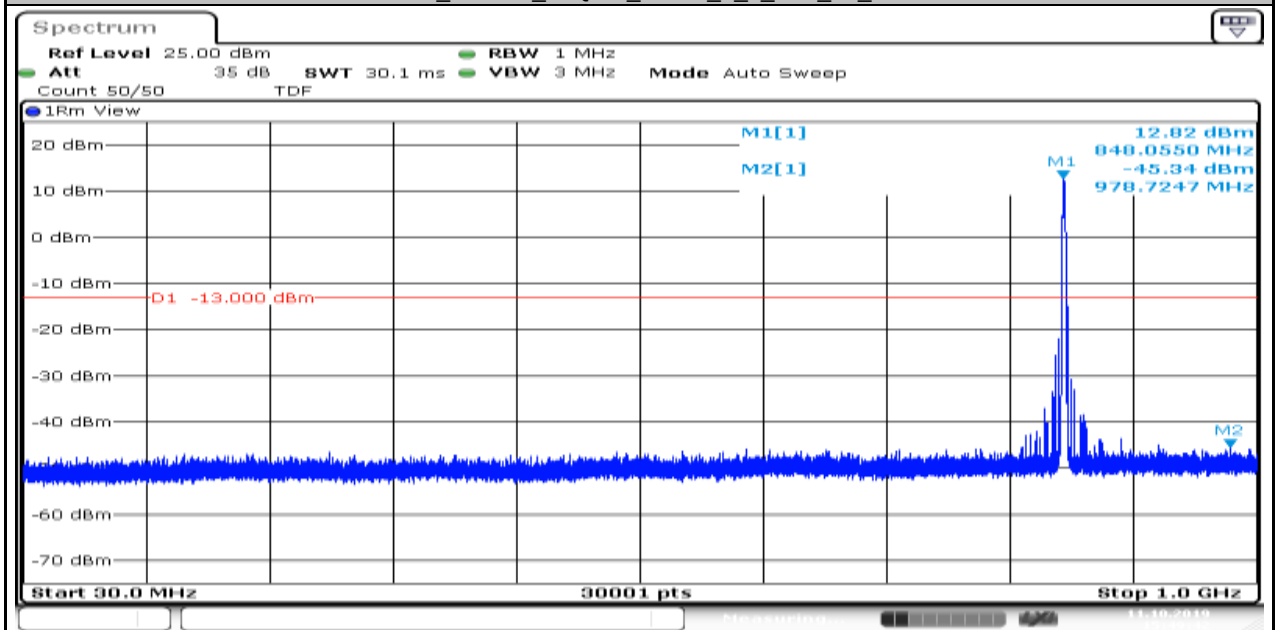
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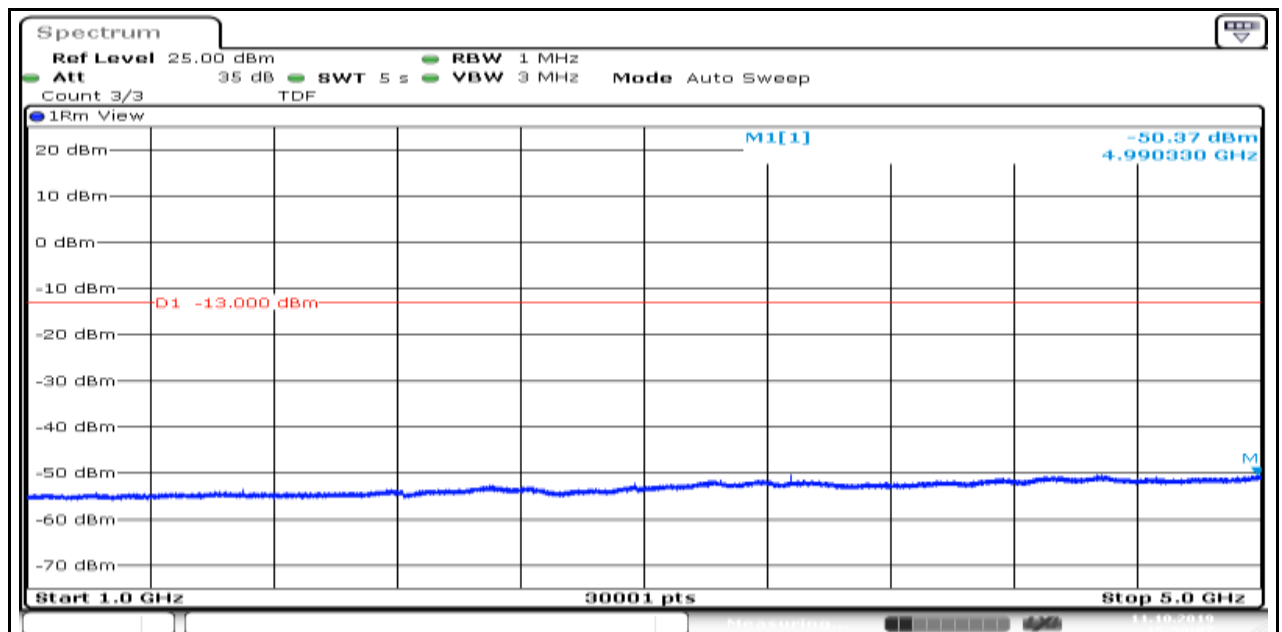


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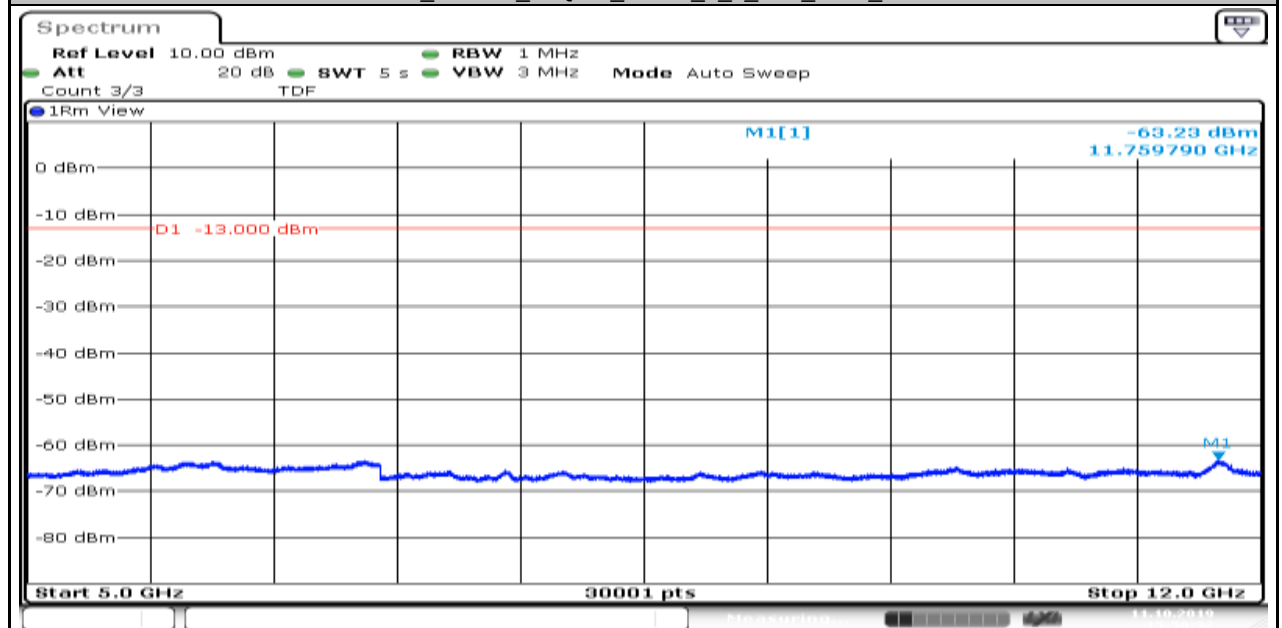
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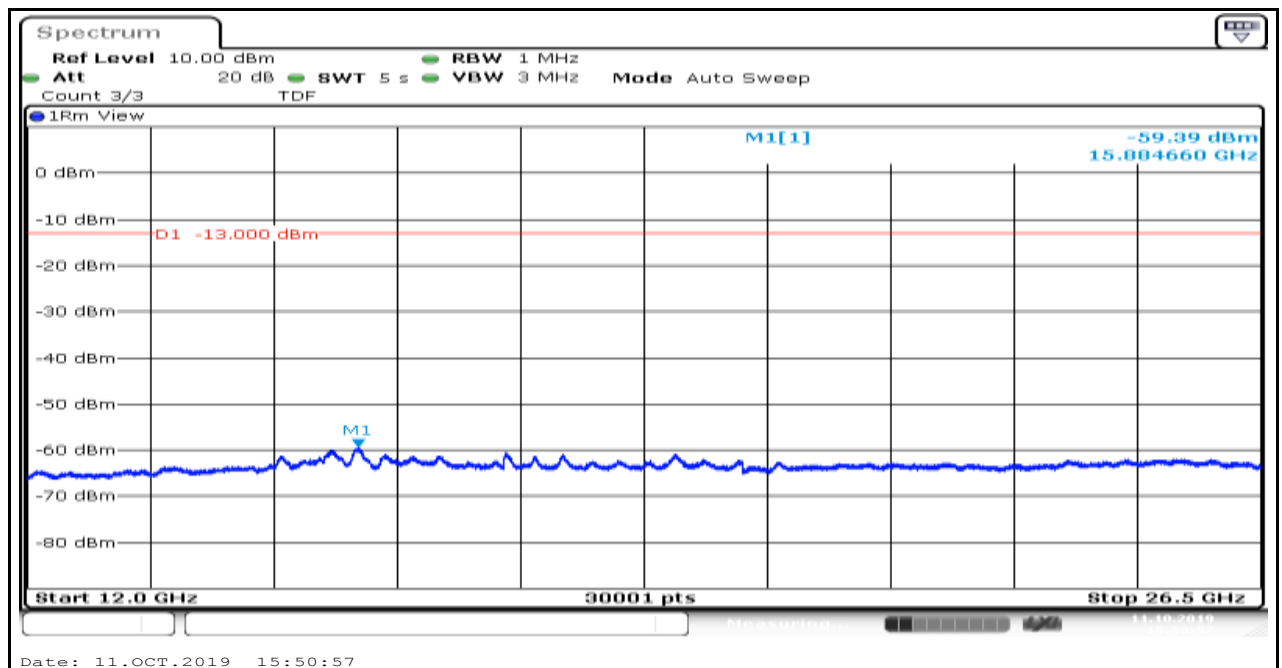
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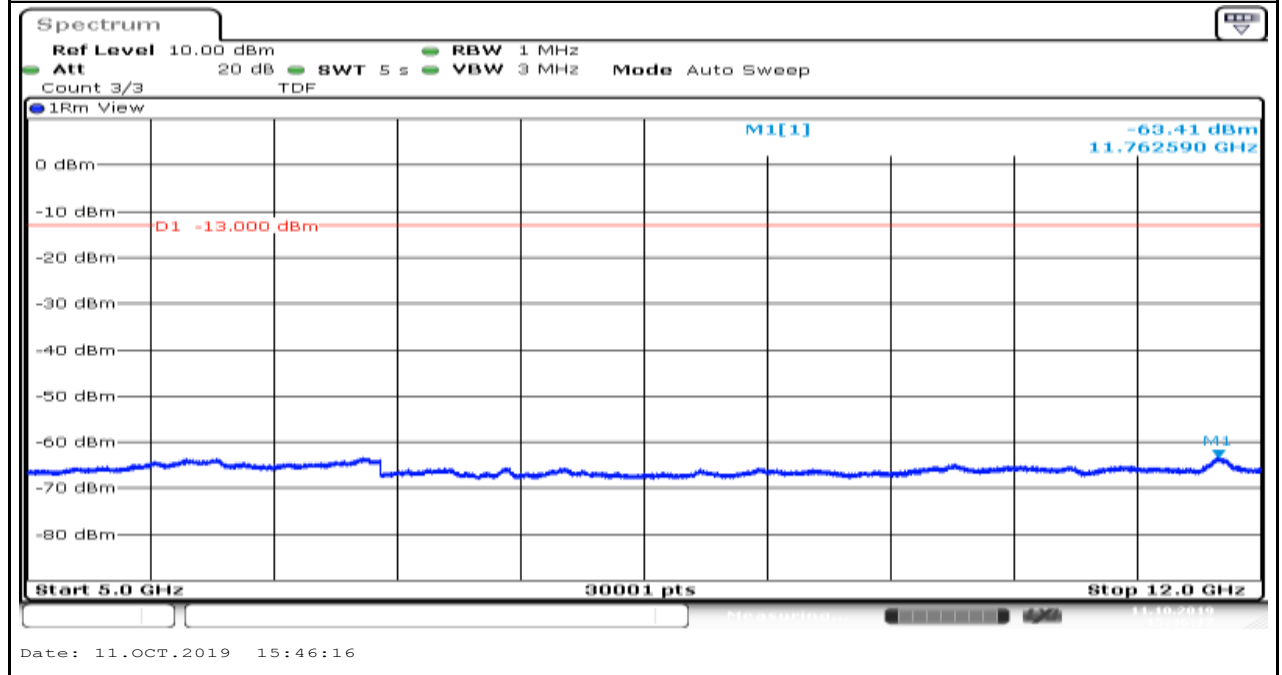
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Band26\_1.4MHz\_16QAM\_27033\_6\_0\_Low\_12000\_26500

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Band26\_1.4MHz\_16QAM\_27033\_1\_5\_Low\_5000\_12000



## Appendix H.6: Frequency Stability for M1

### Test Result

| Voltage |           |            |         |         |          |          |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band26  | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | HV            | NT               | -7.90          | -0.009444       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | LV            | NT               | -6.54          | -0.007818       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | NT               | -7.87          | -0.009408       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | HV            | NT               | -6.25          | -0.007472       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | LV            | NT               | -6.17          | -0.007376       | ±2.5        | PASS    |
| Band26  | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | NT               | -6.04          | -0.007221       | ±2.5        | PASS    |

| Temperature |           |            |         |         |          |          |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 40               | -7.57          | -0.009050       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | -20              | -8.68          | -0.010377       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | -10              | -7.62          | -0.009109       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 0                | -7.70          | -0.009205       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 10               | -7.45          | -0.008906       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 30               | -8.37          | -0.010006       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | -30              | -7.62          | -0.009109       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 50               | -6.37          | -0.007615       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 20               | -9.44          | -0.011285       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 50               | -7.22          | -0.008631       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | -30              | -7.82          | -0.009348       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | -20              | -7.17          | -0.008571       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | -10              | -7.01          | -0.008380       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 0                | -7.12          | -0.008512       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 10               | -7.93          | -0.009480       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 20               | -6.21          | -0.007424       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 30               | -5.89          | -0.007041       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 40               | -6.07          | -0.007256       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | -40              | -10.11         | -0.012086       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 85               | -9.58          | -0.011452       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 80               | -11.74         | -0.014035       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 70               | -8.50          | -0.010161       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | QPSK       | 26915   | 1       | 0        | Low      | NV            | 60               | -9.23          | -0.011034       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 85               | -6.71          | -0.008022       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | -40              | -8.18          | -0.009779       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 60               | -7.55          | -0.009026       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 70               | -8.77          | -0.010484       | ±2.5        | PASS    |
| Band26      | 1.4MHz    | 16QAM      | 26915   | 1       | 0        | Low      | NV            | 80               | -6.84          | -0.008177       | ±2.5        | PASS    |

# Appendix I: Test Results of Band 66 for eMTC operation

|                                                                                                 |          |
|-------------------------------------------------------------------------------------------------|----------|
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## Appendix I.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result (dBm) | EIRP  |       | Limit (watts) | Verdict |
|--------|-----------|------------|---------|---------|----------|---------|--------------|-------|-------|---------------|---------|
|        |           |            |         |         |          |         |              | dBm   | Watts |               |         |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1       | 0        | Low     | 20.61        | 22.75 | 0.188 | 1             | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 6       | 0        | Low     | 18.37        | 20.51 | 0.112 | 1             | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6       | 0        | Low     | 18.44        | 20.58 | 0.114 | 1             | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low     | 20.68        | 22.82 | 0.191 | 1             | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6       | 0        | Low     | 19.86        | 22    | 0.158 | 1             | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1       | 5        | Low     | 21.91        | 24.05 | 0.254 | 1             | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1       | 0        | Low     | 19.5         | 21.64 | 0.146 | 1             | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6       | 0        | Low     | 18.35        | 20.49 | 0.112 | 1             | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6       | 0        | Low     | 18.44        | 20.58 | 0.114 | 1             | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low     | 19.49        | 21.63 | 0.146 | 1             | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6       | 0        | Low     | 19.76        | 21.9  | 0.155 | 1             | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1       | 5        | Low     | 20.73        | 22.87 | 0.194 | 1             | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 6       | 0        | Low     | 18.33        | 20.47 | 0.111 | 1             | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 1       | 0        | Low     | 20.34        | 22.48 | 0.177 | 1             | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 6       | 0        | Low     | 18.37        | 20.51 | 0.112 | 1             | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 1       | 0        | Low     | 20.45        | 22.59 | 0.182 | 1             | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 1       | 5        | High    | 21.6         | 23.74 | 0.237 | 1             | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 6       | 0        | High    | 19.65        | 21.79 | 0.151 | 1             | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 1       | 0        | Low     | 19.77        | 21.91 | 0.155 | 1             | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 6       | 0        | Low     | 18.37        | 20.51 | 0.112 | 1             | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 1       | 0        | Low     | 19.68        | 21.82 | 0.152 | 1             | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 6       | 0        | Low     | 18.36        | 20.5  | 0.112 | 1             | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 1       | 5        | High    | 20.94        | 23.08 | 0.203 | 1             | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 6       | 0        | High    | 19.71        | 21.85 | 0.153 | 1             | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 1       | 0        | Low     | 20.54        | 22.68 | 0.185 | 1             | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 6       | 0        | Low     | 19.31        | 21.45 | 0.140 | 1             | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 1       | 0        | Low     | 20.57        | 22.71 | 0.187 | 1             | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 6       | 0        | Low     | 19.34        | 21.48 | 0.141 | 1             | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 3       | 3        | High    | 21.52        | 23.66 | 0.232 | 1             | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 1       | 5        | High    | 21.68        | 23.82 | 0.241 | 1             | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 6       | 0        | Low     | 19.31        | 21.45 | 0.140 | 1             | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 1       | 0        | Low     | 20.14        | 22.28 | 0.169 | 1             | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 1       | 0        | Low     | 20.36        | 22.5  | 0.178 | 1             | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 6       | 0        | Low     | 19.34        | 21.48 | 0.141 | 1             | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 3       | 3        | High    | 21.53        | 23.67 | 0.233 | 1             | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 1       | 5        | High    | 21.16        | 23.3  | 0.214 | 1             | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 1       | 0        | Low     | 20.53        | 22.67 | 0.185 | 1             | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 5       | 0        | Low     | 20.33        | 22.47 | 0.177 | 1             | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 5       | 0        | Low     | 20.42        | 22.56 | 0.180 | 1             | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 1       | 0        | Low     | 20.64        | 22.78 | 0.190 | 1             | PASS    |
| Band66 | 10MHz     | QPSK       | 132622  | 5       | 1        | High    | 21.74        | 23.88 | 0.244 | 1             | PASS    |
| Band66 | 10MHz     | QPSK       | 132622  | 1       | 5        | High    | 21.72        | 23.86 | 0.243 | 1             | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 5       | 0        | Low     | 20.2         | 22.34 | 0.171 | 1             | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 1       | 0        | Low     | 20.25        | 22.39 | 0.173 | 1             | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 1       | 0        | Low     | 20.23        | 22.37 | 0.173 | 1             | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 5       | 0        | Low     | 20.33        | 22.47 | 0.177 | 1             | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 1       | 5        | High    | 21.11        | 23.25 | 0.211 | 1             | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 5       | 1        | High    | 21.42        | 23.56 | 0.227 | 1             | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 1       | 0        | Low     | 20.52        | 22.66 | 0.185 | 1             | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 6       | 0        | Low     | 20.35        | 22.49 | 0.177 | 1             | PASS    |

**Produkte**  
*Products*

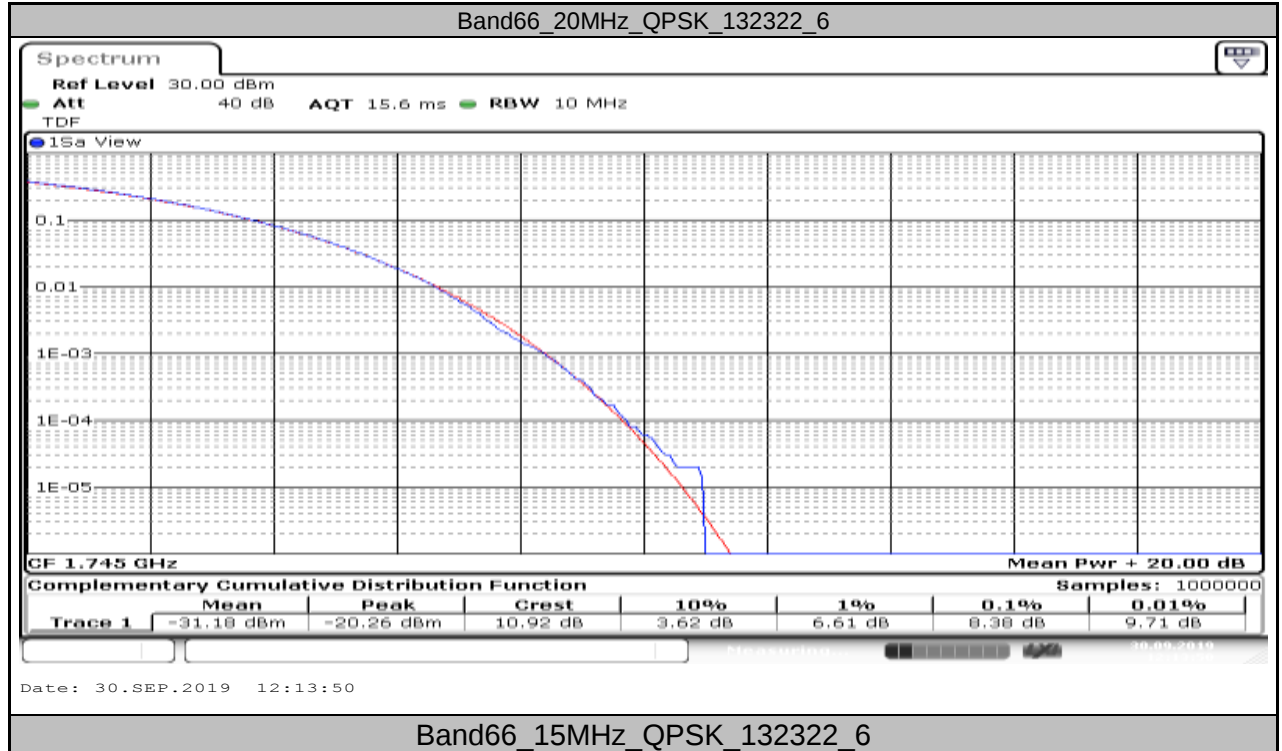
|        |       |       |        |   |   |      |       |       |       |   |      |
|--------|-------|-------|--------|---|---|------|-------|-------|-------|---|------|
| Band66 | 15MHz | QPSK  | 132322 | 1 | 0 | Low  | 20.73 | 22.87 | 0.194 | 1 | PASS |
| Band66 | 15MHz | QPSK  | 132322 | 6 | 0 | Low  | 20.53 | 22.67 | 0.185 | 1 | PASS |
| Band66 | 15MHz | QPSK  | 132597 | 1 | 5 | High | 21.73 | 23.87 | 0.244 | 1 | PASS |
| Band66 | 15MHz | QPSK  | 132597 | 6 | 0 | High | 21.71 | 23.85 | 0.243 | 1 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 6 | 0 | Low  | 20.35 | 22.49 | 0.177 | 1 | PASS |
| Band66 | 15MHz | 16QAM | 132047 | 1 | 0 | Low  | 20.15 | 22.29 | 0.169 | 1 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 6 | 0 | Low  | 20.53 | 22.67 | 0.185 | 1 | PASS |
| Band66 | 15MHz | 16QAM | 132322 | 1 | 0 | Low  | 20.44 | 22.58 | 0.181 | 1 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 1 | 5 | High | 21.69 | 23.83 | 0.242 | 1 | PASS |
| Band66 | 15MHz | 16QAM | 132597 | 6 | 0 | High | 21.8  | 23.94 | 0.248 | 1 | PASS |
| Band66 | 20MHz | QPSK  | 132072 | 6 | 0 | Low  | 20.4  | 22.54 | 0.179 | 1 | PASS |
| Band66 | 20MHz | QPSK  | 132072 | 1 | 0 | Low  | 20.44 | 22.58 | 0.181 | 1 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 1 | 0 | Low  | 20.62 | 22.76 | 0.189 | 1 | PASS |
| Band66 | 20MHz | QPSK  | 132322 | 6 | 0 | Low  | 20.45 | 22.59 | 0.182 | 1 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 6 | 0 | High | 21.89 | 24.03 | 0.253 | 1 | PASS |
| Band66 | 20MHz | QPSK  | 132572 | 1 | 5 | High | 21.74 | 23.88 | 0.244 | 1 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 1 | 0 | Low  | 20.12 | 22.26 | 0.168 | 1 | PASS |
| Band66 | 20MHz | 16QAM | 132072 | 6 | 0 | Low  | 20.39 | 22.53 | 0.179 | 1 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 1 | 0 | Low  | 20.29 | 22.43 | 0.175 | 1 | PASS |
| Band66 | 20MHz | 16QAM | 132322 | 6 | 0 | Low  | 20.45 | 22.59 | 0.182 | 1 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 1 | 5 | High | 21.14 | 23.28 | 0.213 | 1 | PASS |
| Band66 | 20MHz | 16QAM | 132572 | 6 | 0 | High | 21.71 | 23.85 | 0.243 | 1 | PASS |

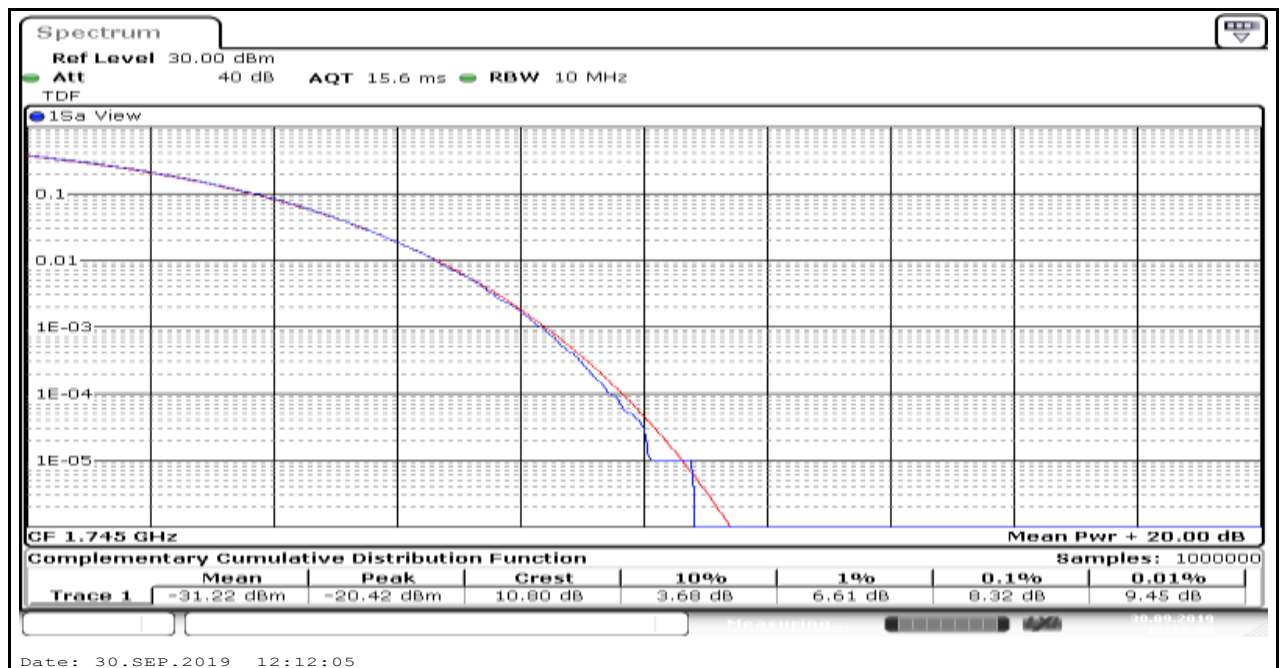
## Appendix I.2: Peak-to-Average Ratio (CCDF) for M1

### Test Result

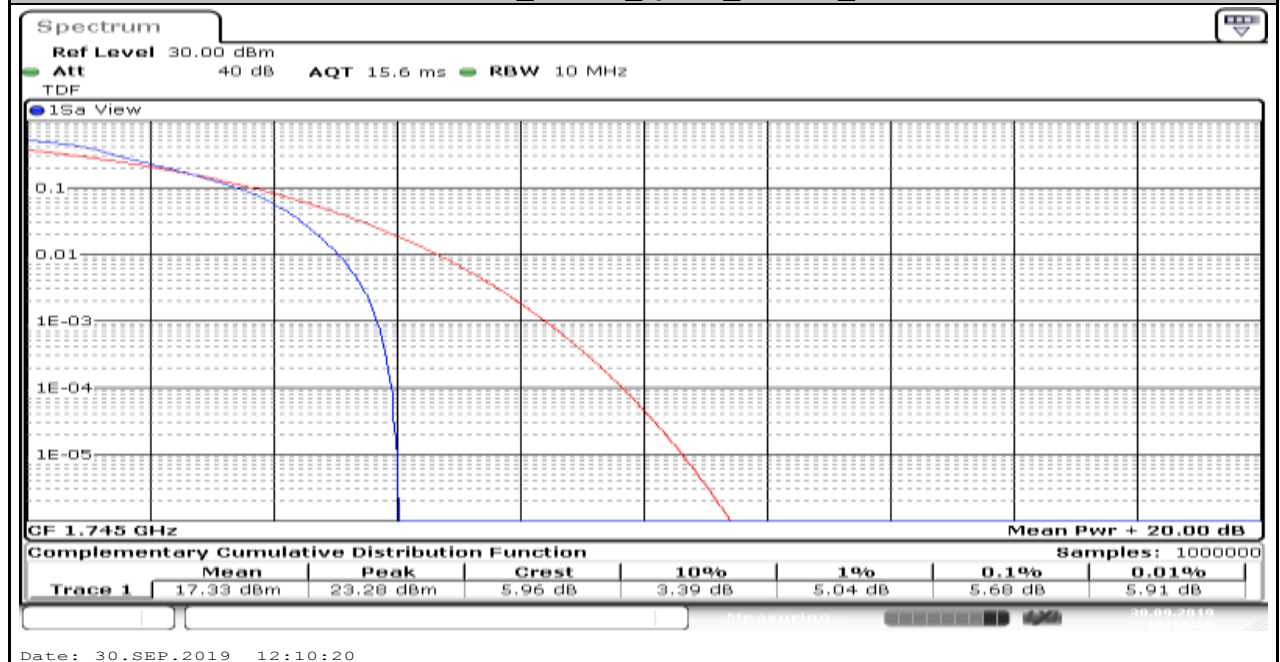
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|---------|----------|---------|------------|-----------|---------|
| Band66 | 20MHz     | QPSK       | 132322  | 6       | 0        | Low     | 8.38       | <=13      | PASS    |
| Band66 | 15MHz     | QPSK       | 132322  | 6       | 0        | Low     | 8.32       | <=13      | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 6       | 0        | Low     | 5.68       | <=13      | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 6       | 0        | Low     | 8.43       | <=13      | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 6       | 0        | Low     | 10.61      | <=13      | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6       | 0        | Low     | 7.86       | <=13      | PASS    |
| Band66 | 20MHz     | 16QAM      | 132322  | 6       | 0        | Low     | 9.51       | <=13      | PASS    |
| Band66 | 15MHz     | 16QAM      | 132322  | 6       | 0        | Low     | 8.41       | <=13      | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 6       | 0        | Low     | 11.30      | <=13      | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 6       | 0        | Low     | 9.97       | <=13      | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 6       | 0        | Low     | 9.36       | <=13      | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6       | 0        | Low     | 9.25       | <=13      | PASS    |

### Test Graphs

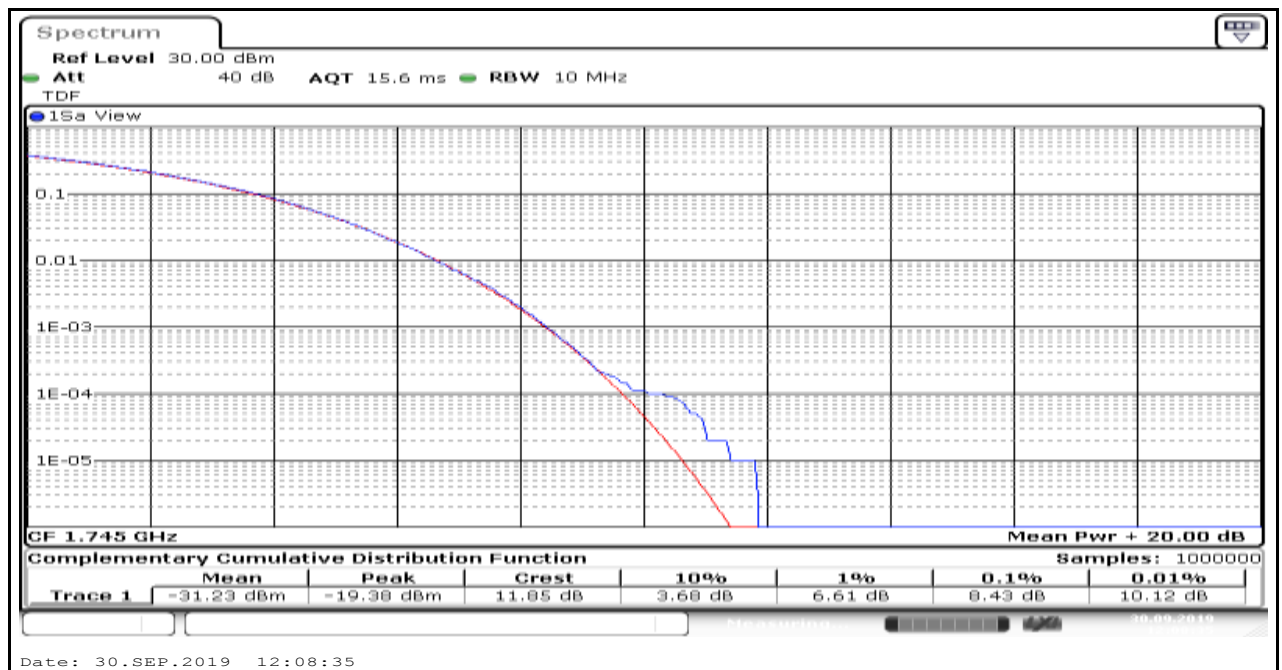




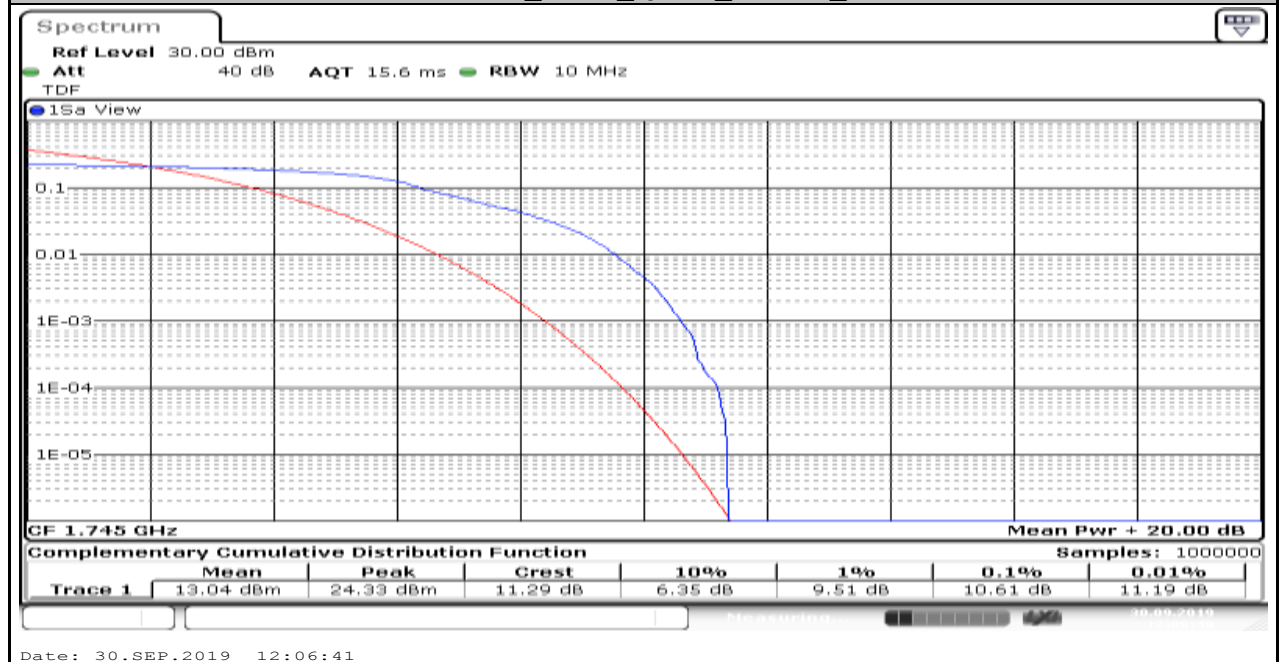
## Band66\_10MHz\_QPSK\_132322\_6



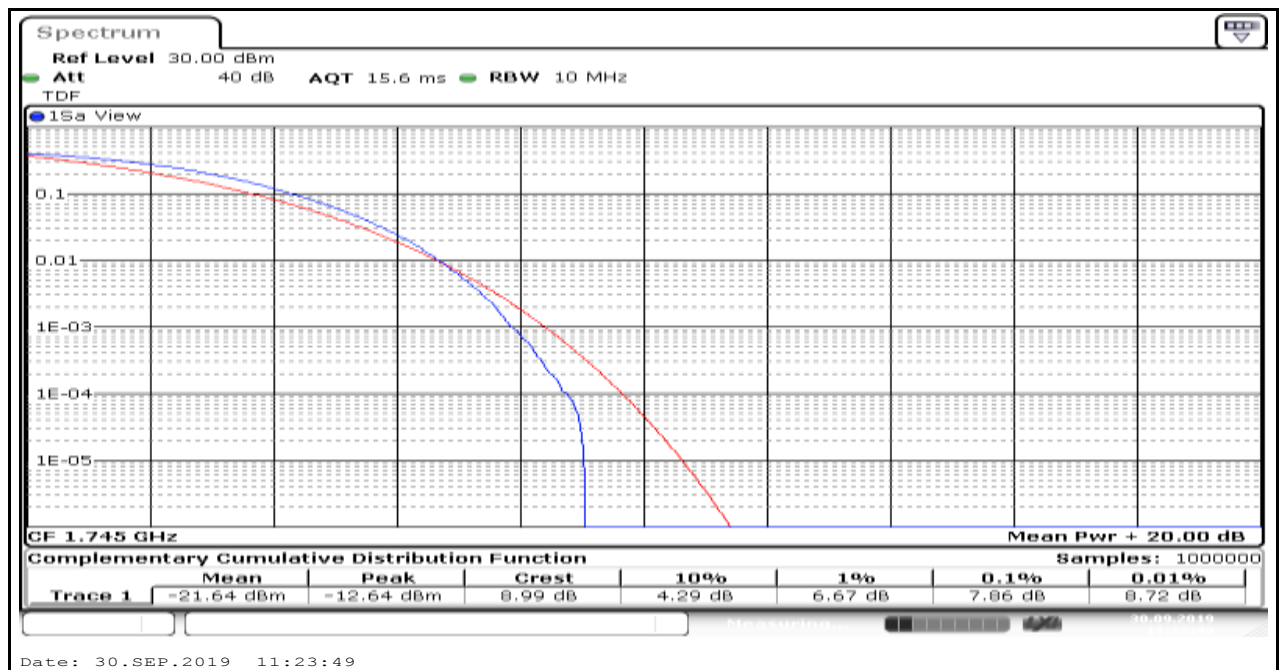
## Band66\_5MHz\_QPSK\_132322\_6



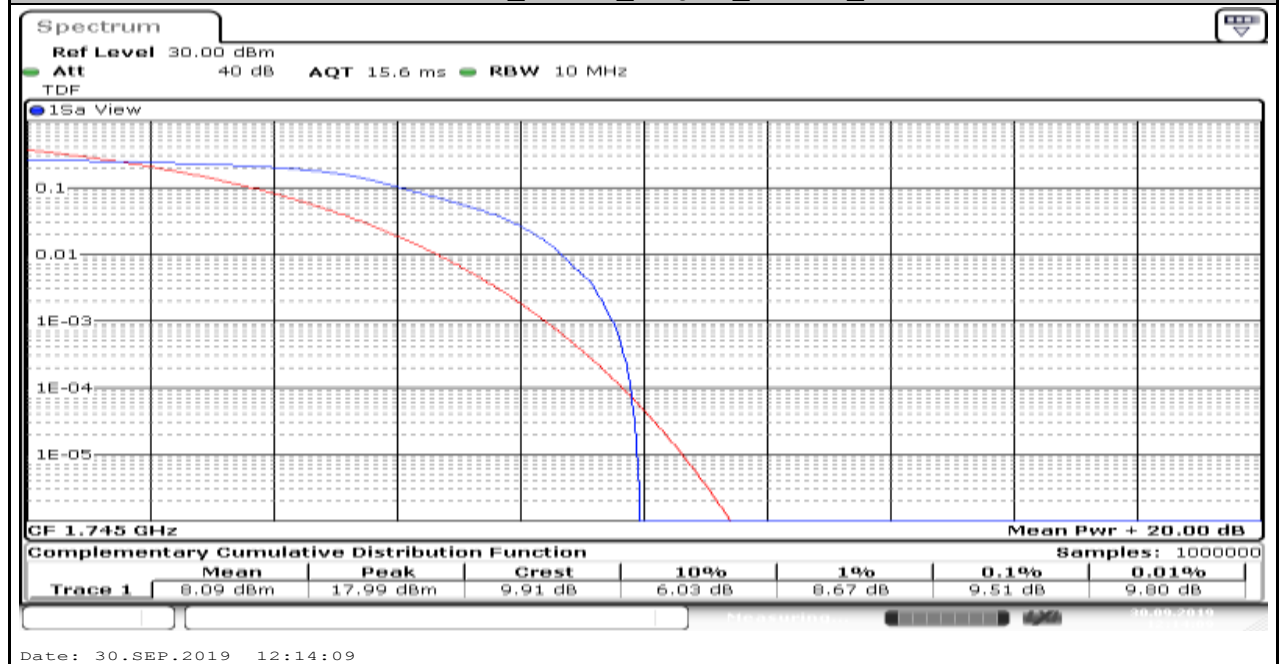
## Band66\_3MHz\_QPSK\_132322\_6



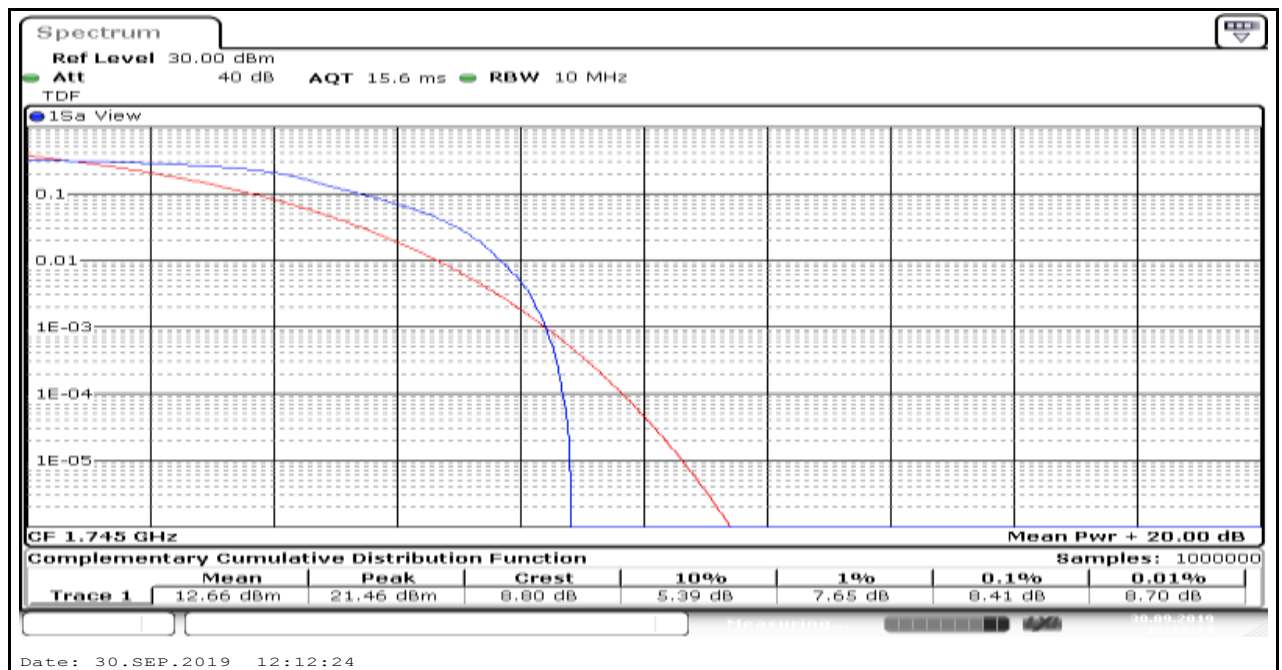
## Band66\_1.4MHz\_QPSK\_132322\_6



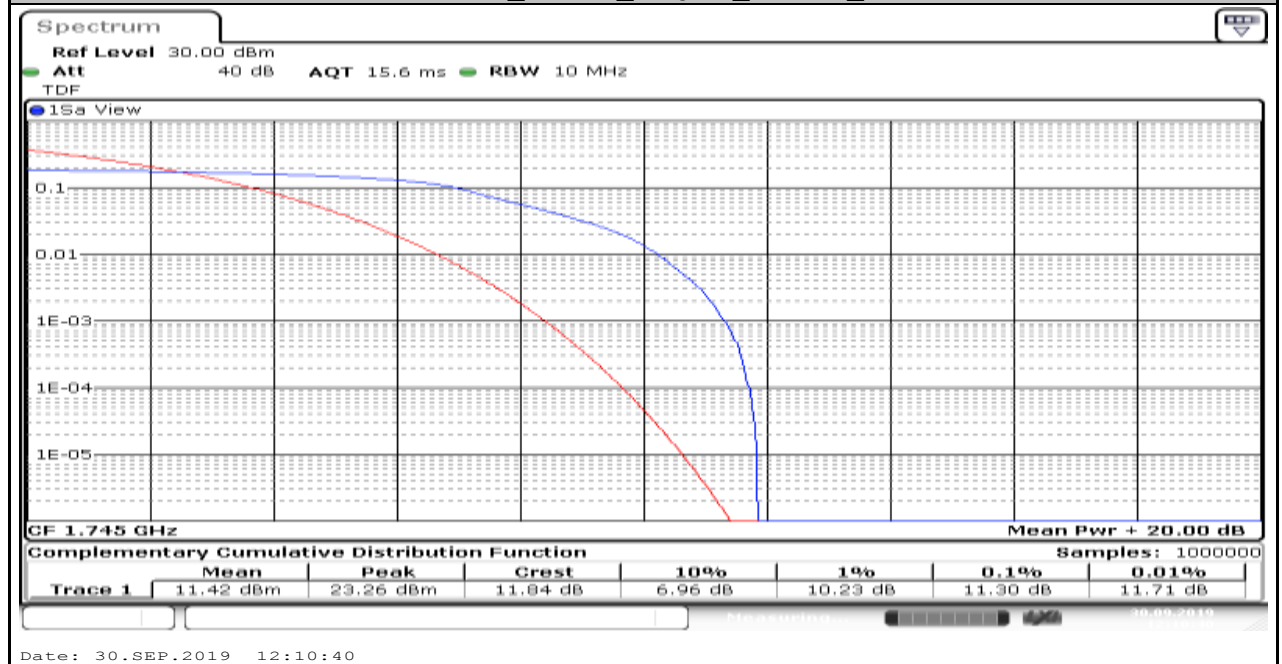
Band66\_20MHz\_16QAM\_132322\_6



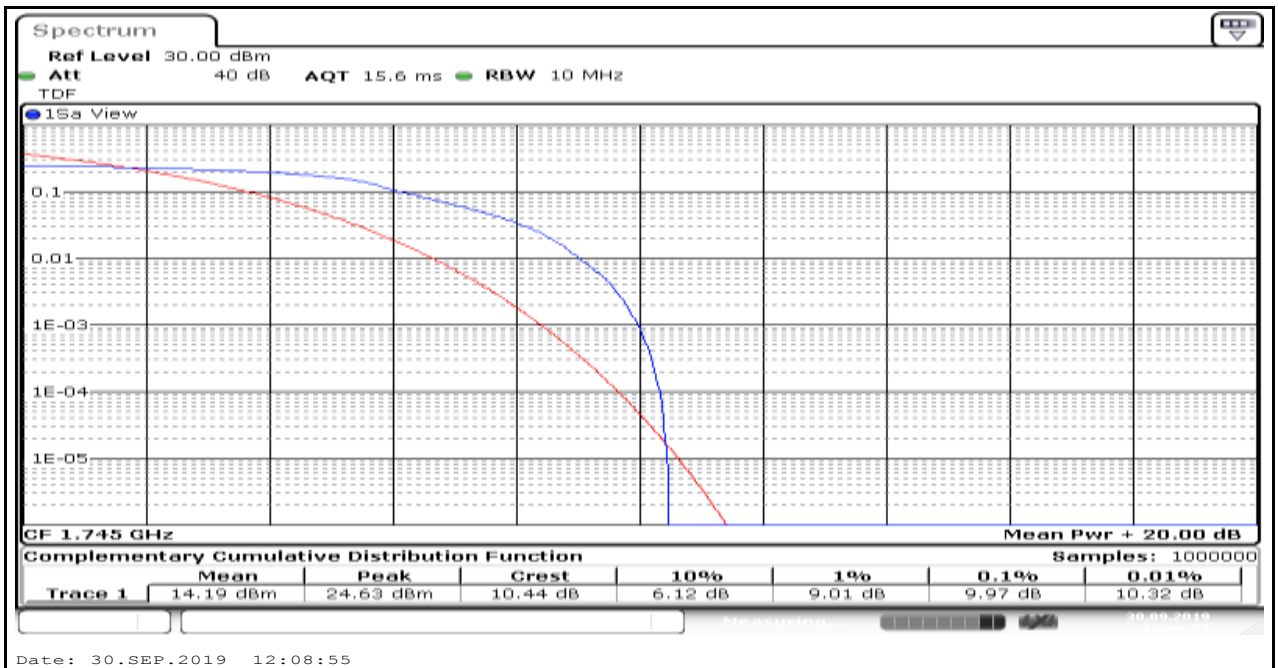
Band66\_15MHz\_16QAM\_132322\_6



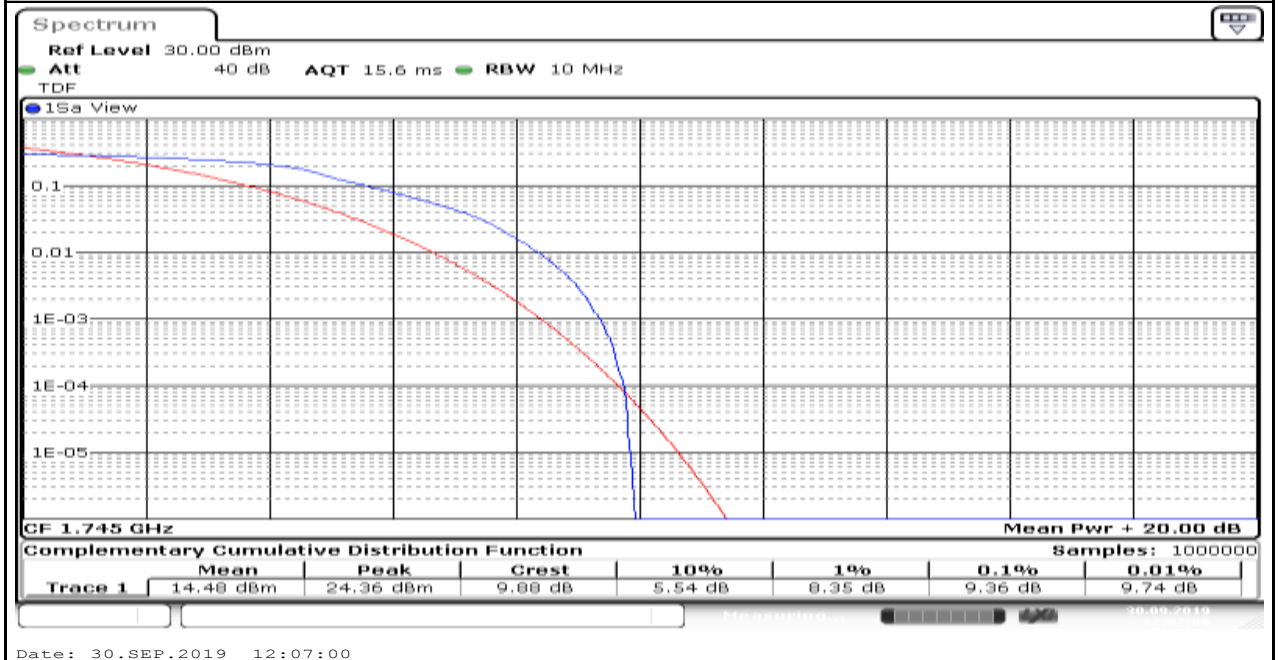
## Band66\_10MHz\_16QAM\_132322\_6



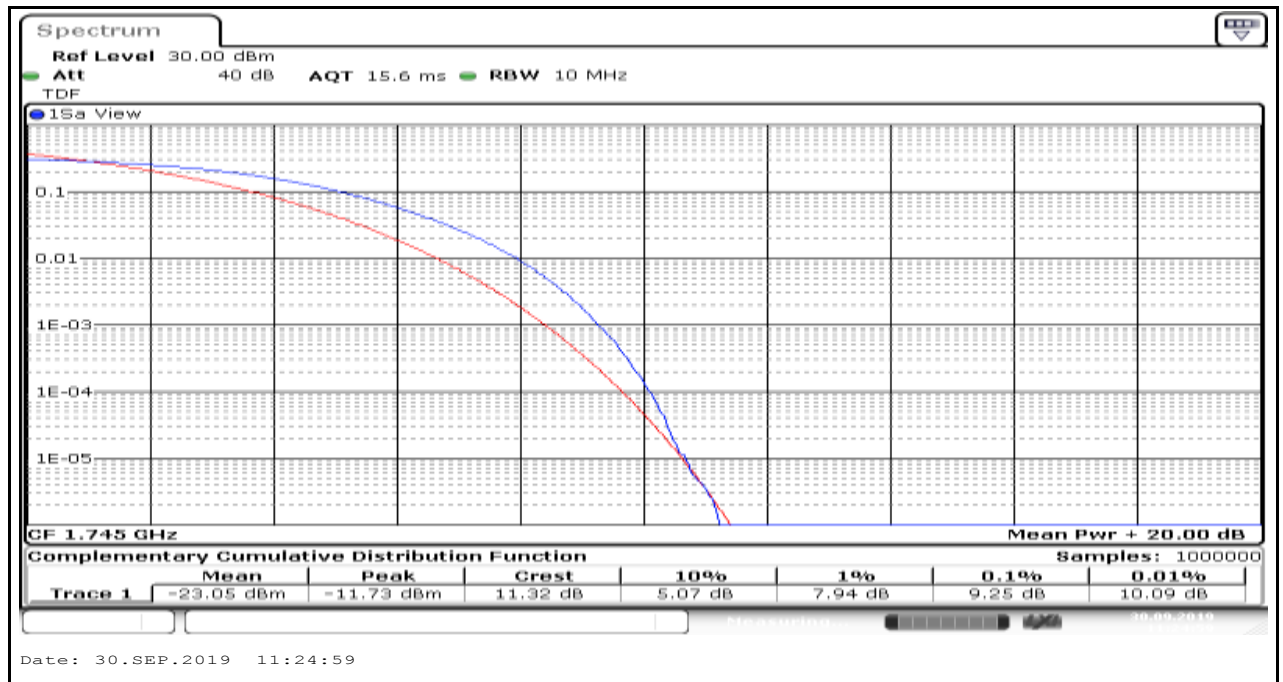
## Band66\_5MHz\_16QAM\_132322\_6



## Band66\_3MHz\_16QAM\_132322\_6



## Band66\_1.4MHz\_16QAM\_132322\_6

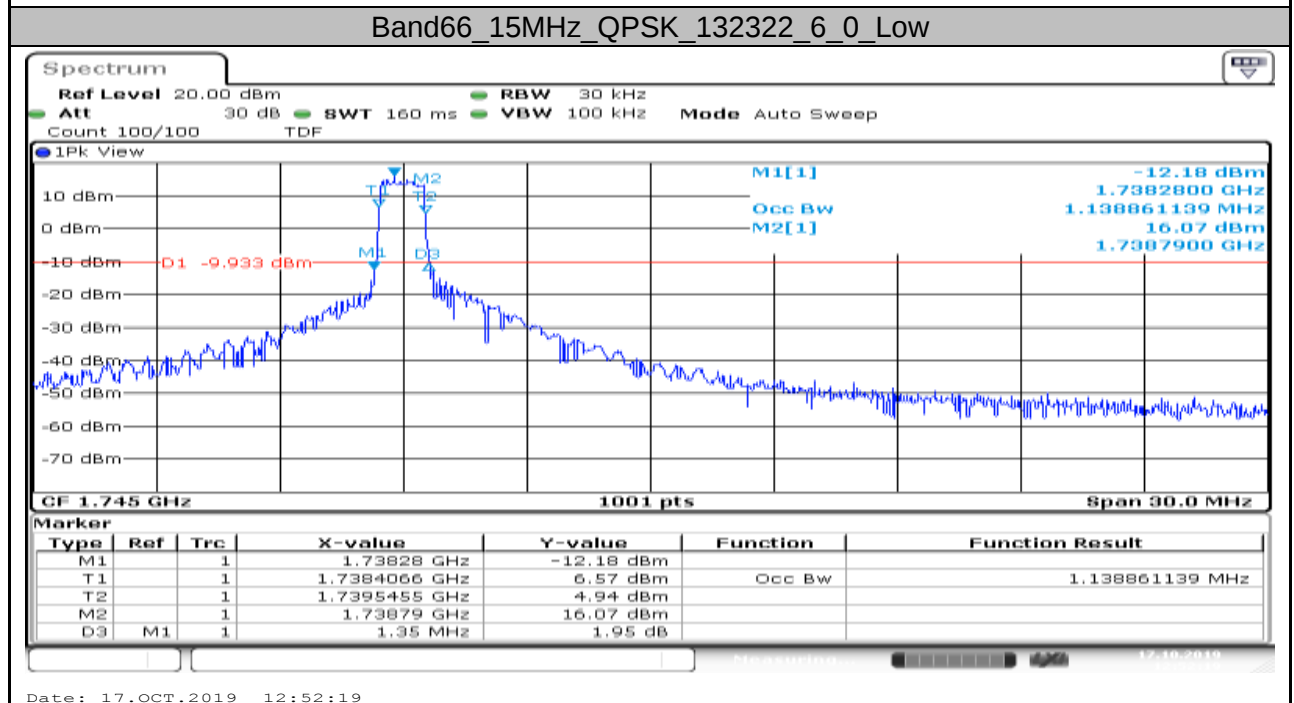
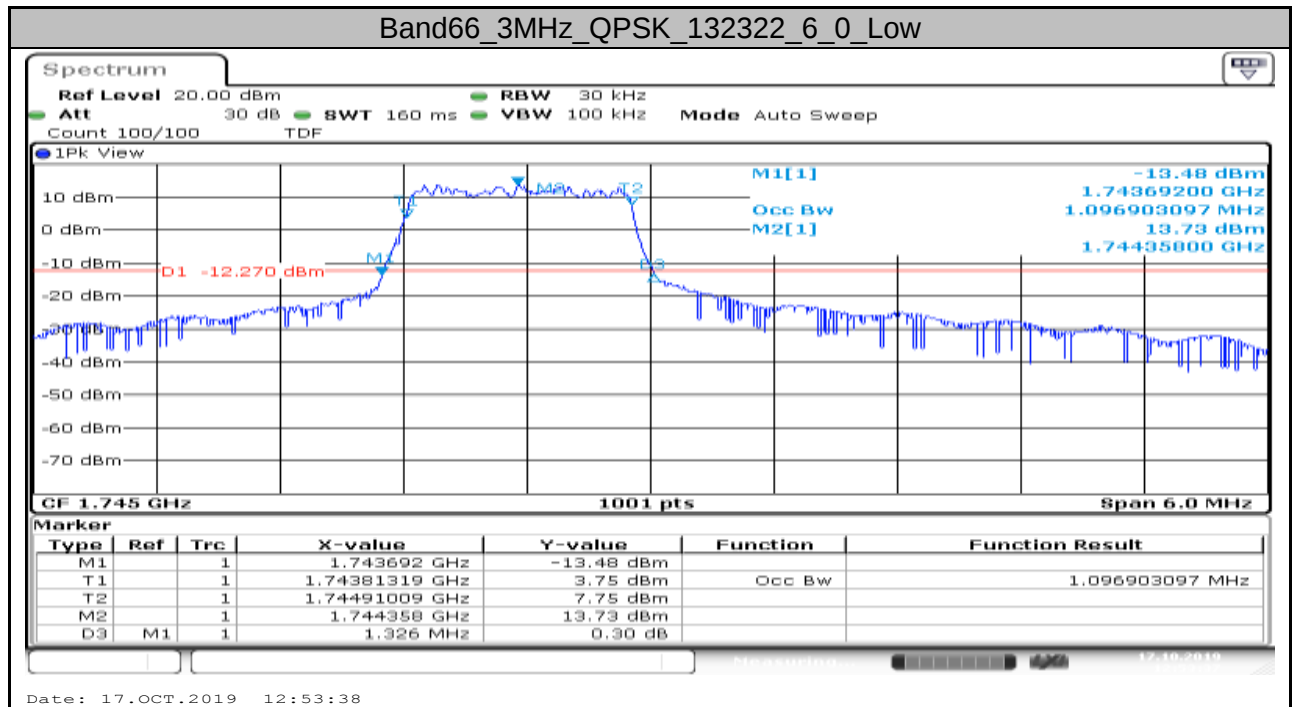


## Appendix I.3: 26dB Bandwidth and Occupied Bandwidth for M1

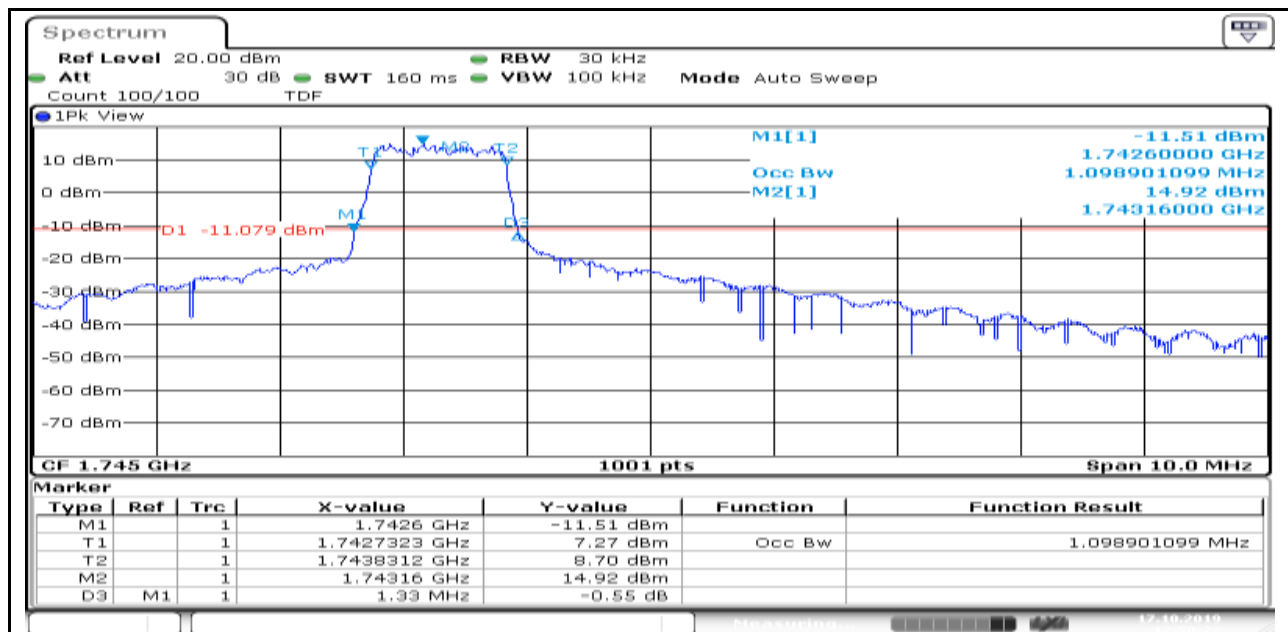
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|--------------------------|----------------------|---------|
| Band66 | 3MHz      | QPSK       | 132322  | 6       | 0        | Low      | 1.097                    | 1.326                | PASS    |
| Band66 | 15MHz     | QPSK       | 132322  | 6       | 0        | Low      | 1.139                    | 1.350                | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 6       | 0        | Low      | 1.099                    | 1.330                | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 6       | 0        | Low      | 1.099                    | 1.340                | PASS    |
| Band66 | 20MHz     | QPSK       | 132322  | 6       | 0        | Low      | 1.119                    | 1.400                | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6       | 0        | Low      | 1.103                    | 1.305                | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 6       | 0        | Low      | 1.103                    | 1.320                | PASS    |
| Band66 | 15MHz     | 16QAM      | 132322  | 6       | 0        | Low      | 1.109                    | 1.380                | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 6       | 0        | Low      | 1.099                    | 1.330                | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 6       | 0        | Low      | 1.099                    | 1.340                | PASS    |
| Band66 | 20MHz     | 16QAM      | 132322  | 6       | 0        | Low      | 1.119                    | 1.400                | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6       | 0        | Low      | 1.103                    | 1.314                | PASS    |

## Test Graphs

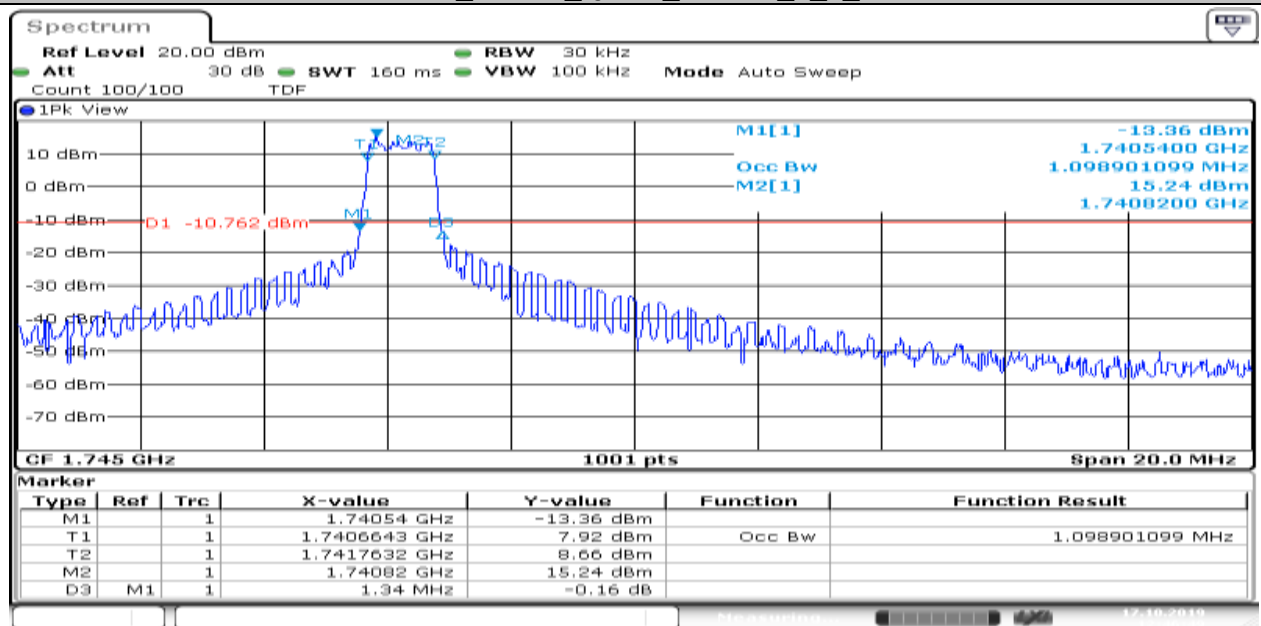


**Band66\_5MHz\_QPSK\_132322\_6\_0\_Low**



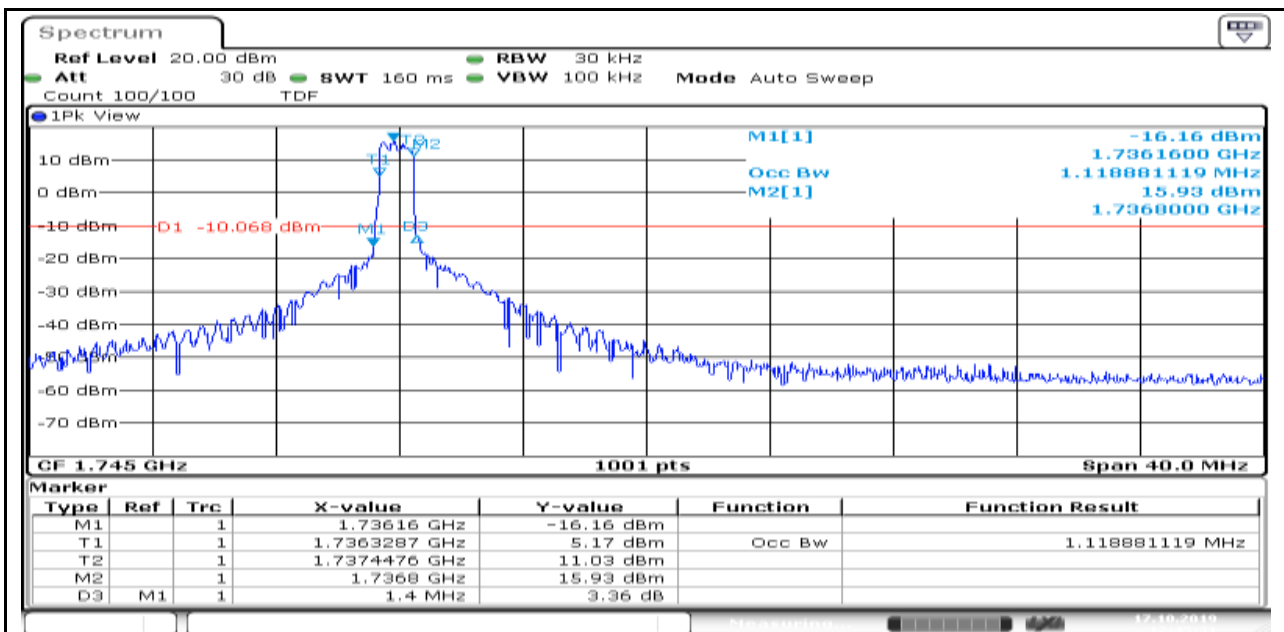
Date: 17.OCT.2019 12:50:22

## Band66\_10MHz\_QPSK\_132322\_6\_0\_Low

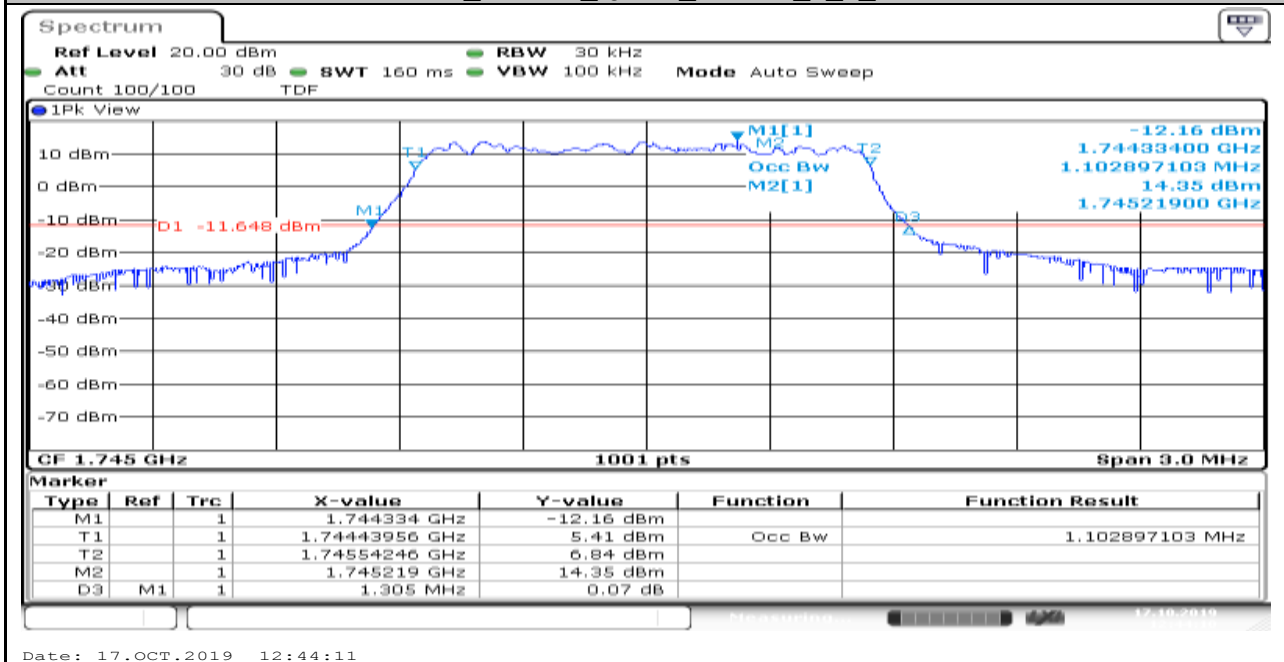


Date: 17.OCT.2019 12:46:49

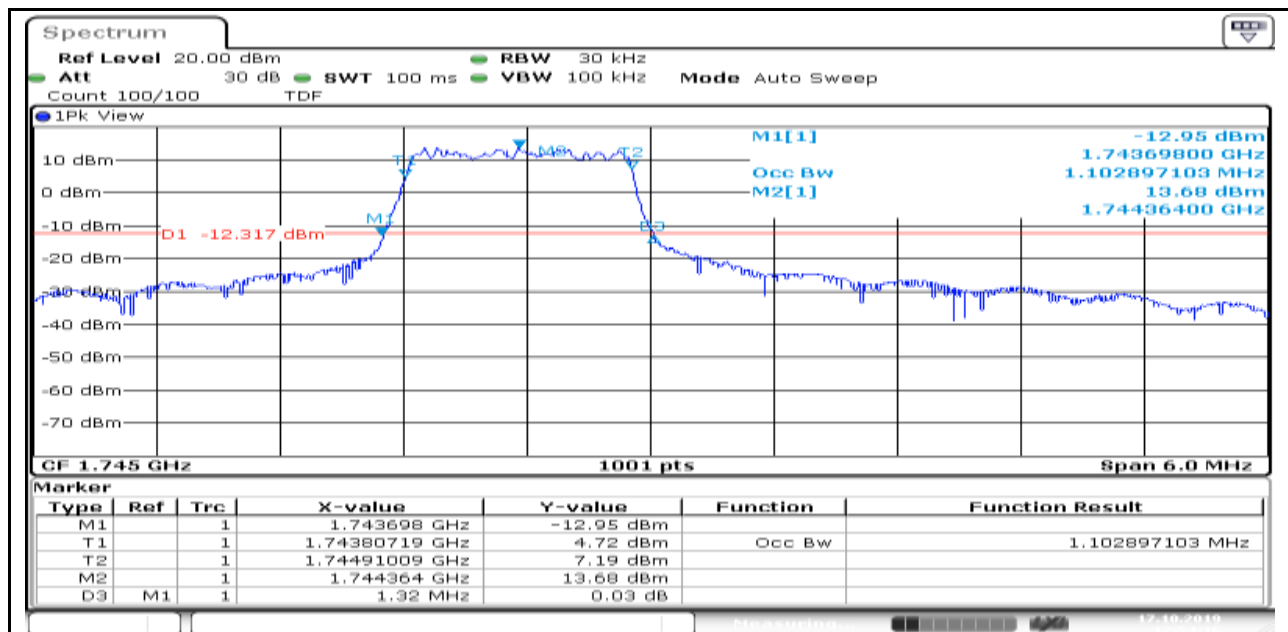
## Band66\_20MHz\_QPSK\_132322\_6\_0\_Low



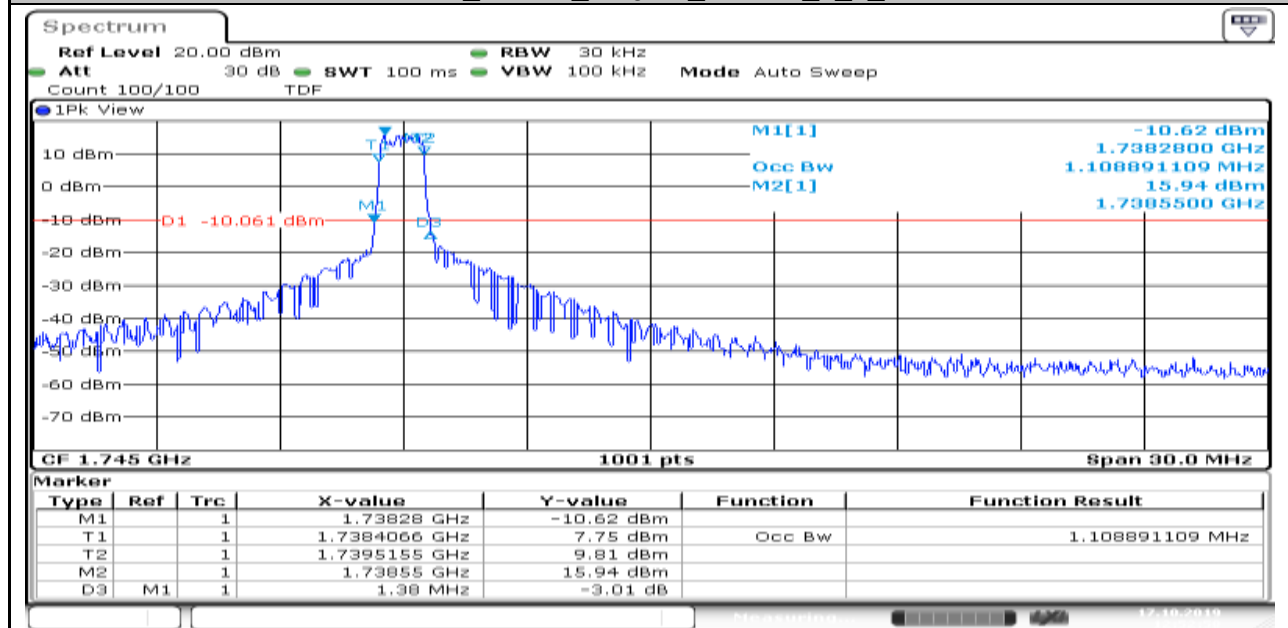
### Band66\_1.4MHz\_QPSK\_132322\_6\_0\_Low



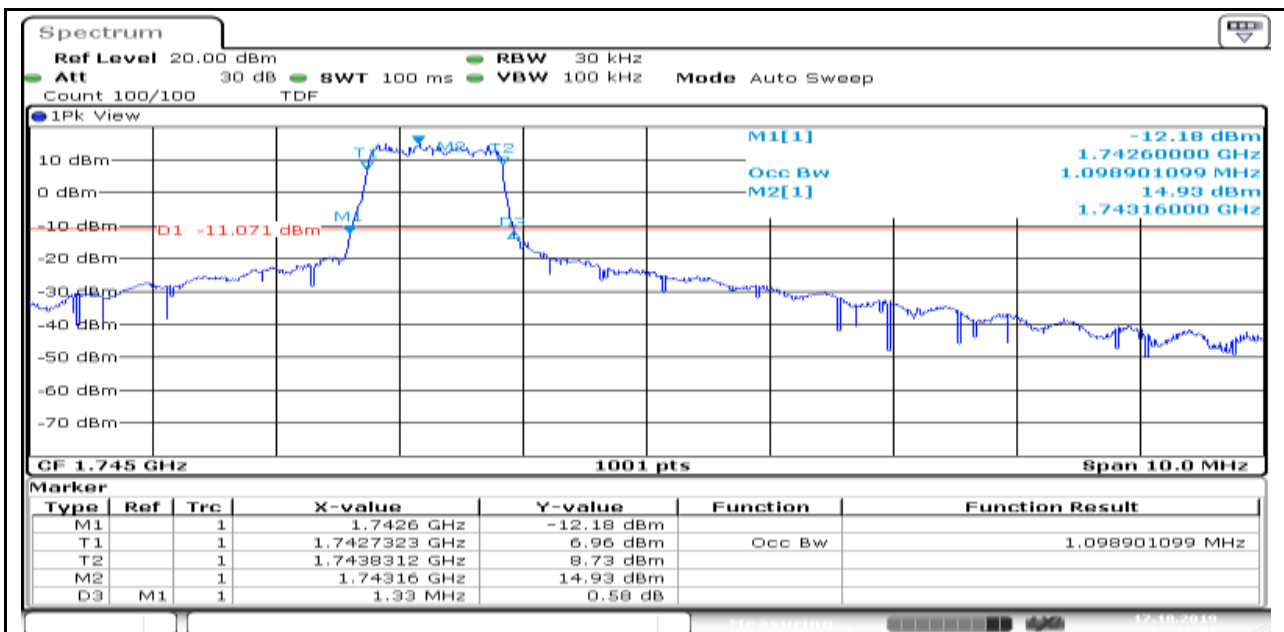
### Band66\_3MHz\_16QAM\_132322\_6\_0\_Low



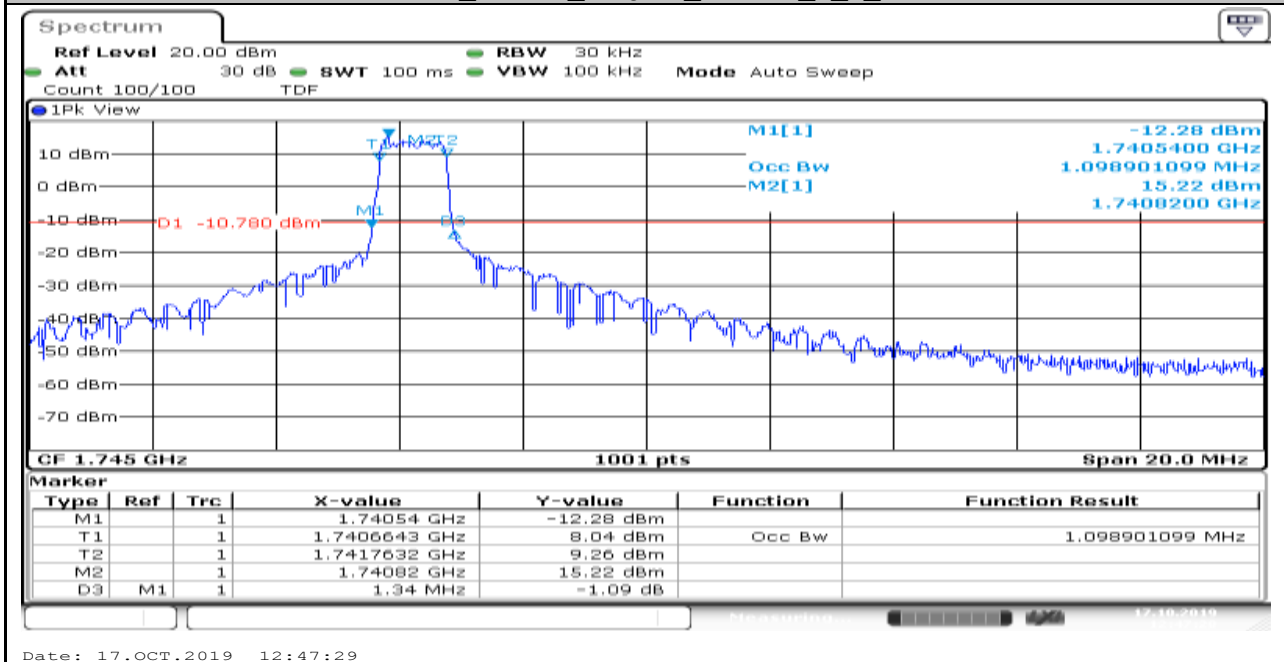
## Band66\_15MHz\_16QAM\_132322\_6\_0\_Low



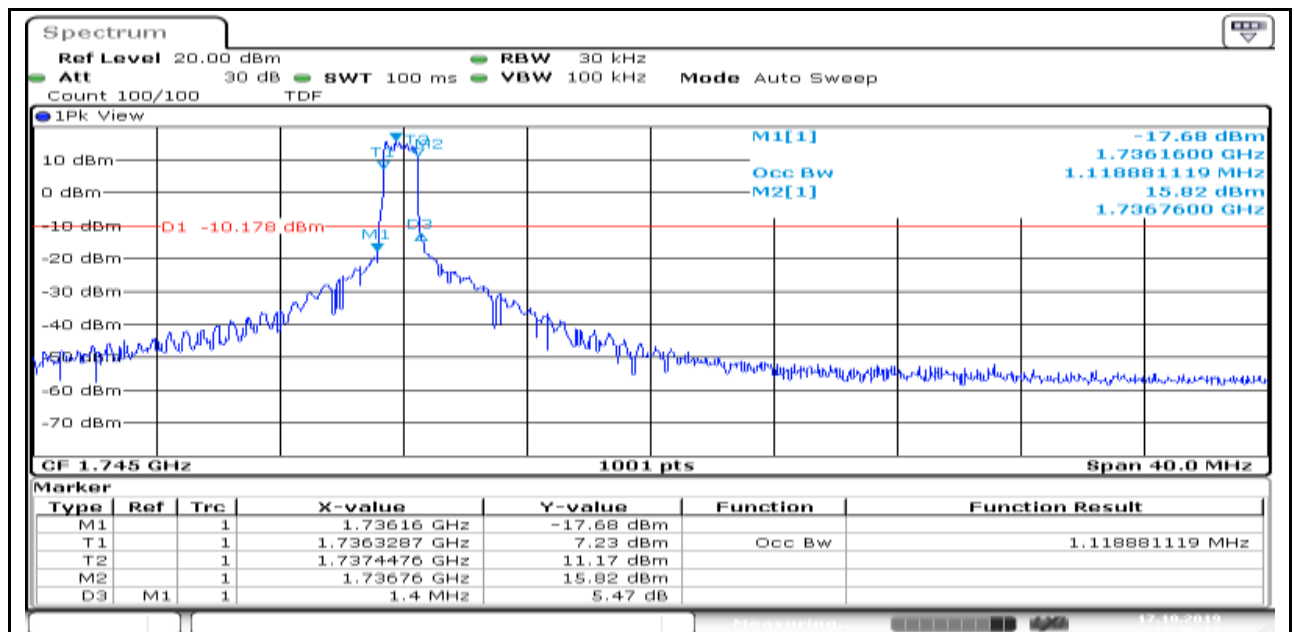
## Band66\_5MHz\_16QAM\_132322\_6\_0\_Low



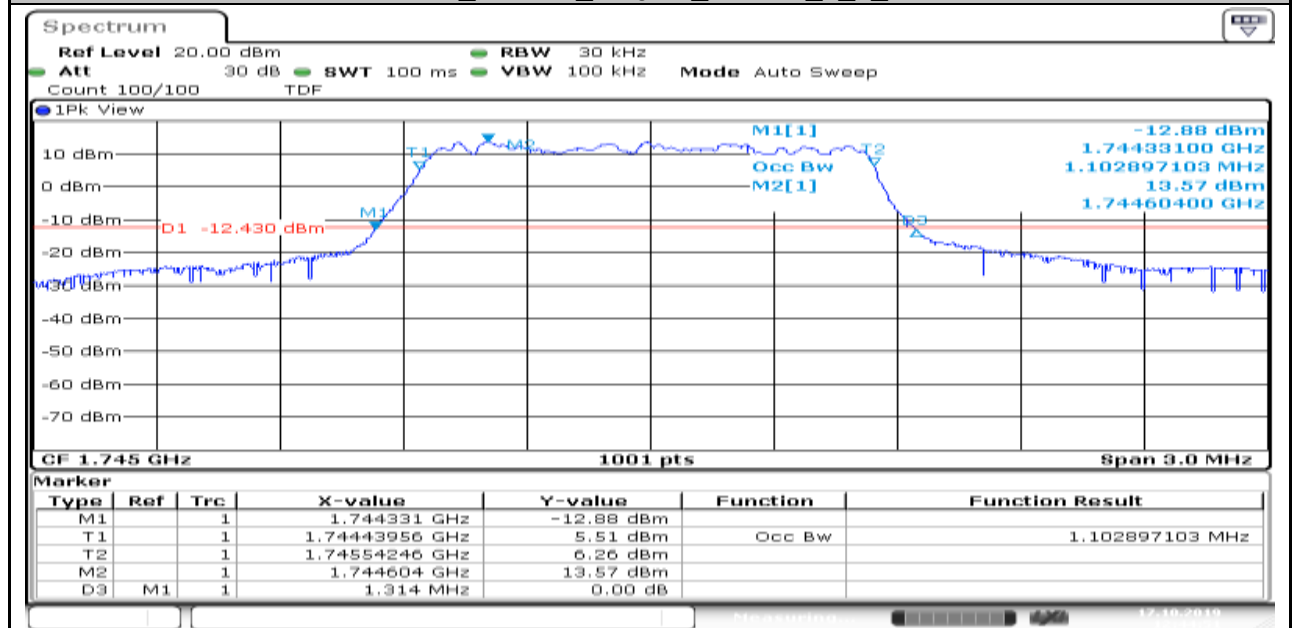
### Band66\_10MHz\_16QAM\_132322\_6\_0\_Low



### Band66\_20MHz\_16QAM\_132322\_6\_0\_Low



## Band66\_1.4MHz\_16QAM\_132322\_6\_0\_Low

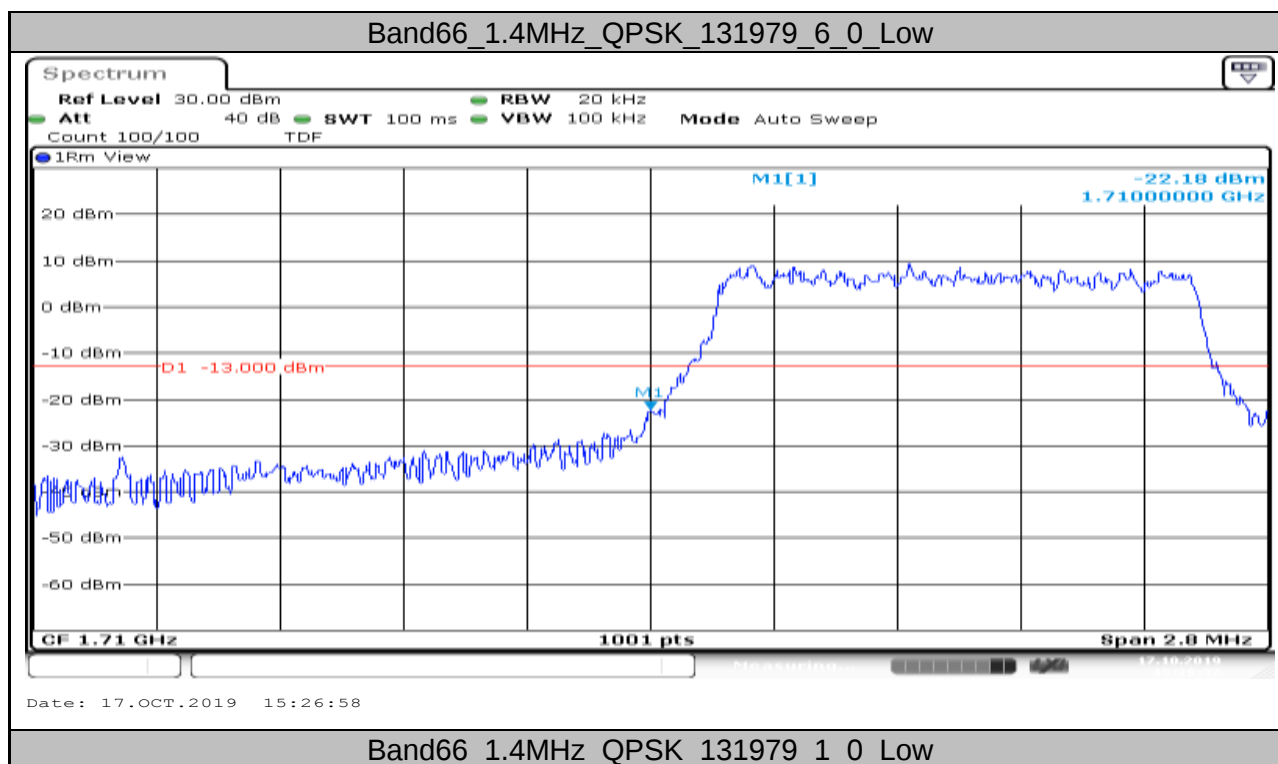


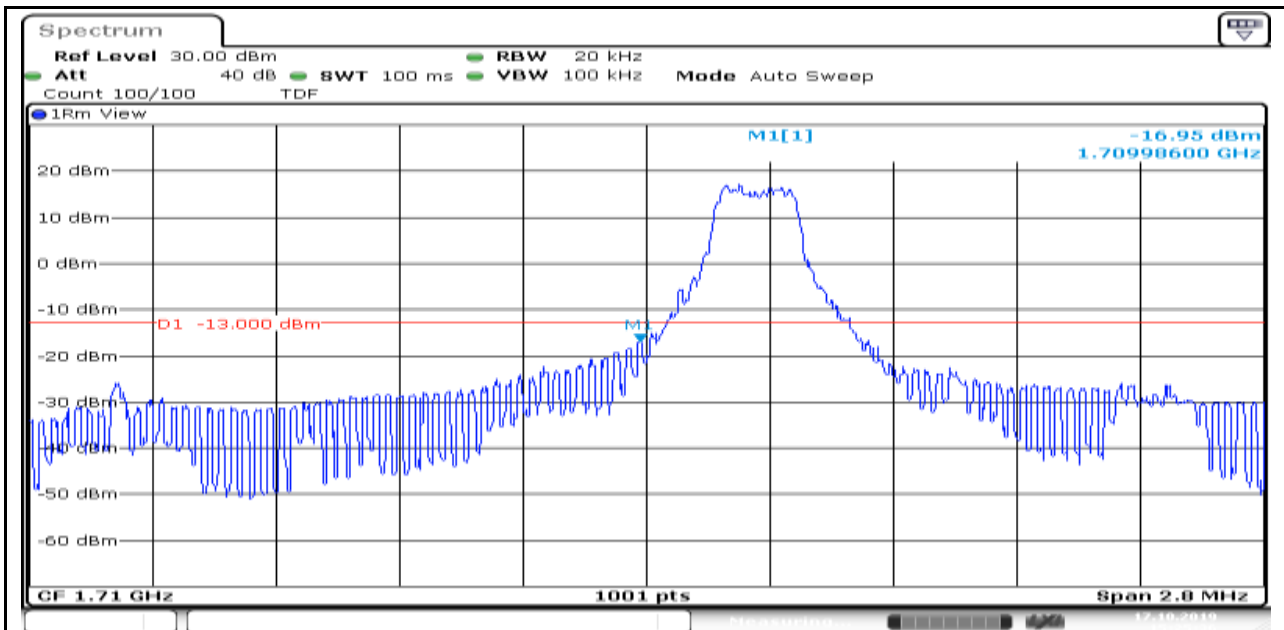
## Appendix I.4: Band Edge for M1

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Result (dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|--------------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 6       | 0        | Low      | -22.18       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1       | 0        | Low      | -16.95       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6       | 0        | Low      | -24.41       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1       | 5        | Low      | -20.12       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6       | 0        | Low      | -23.30       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1       | 0        | Low      | -19.24       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6       | 0        | Low      | -23.26       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1       | 5        | Low      | -20.09       | PASS    |

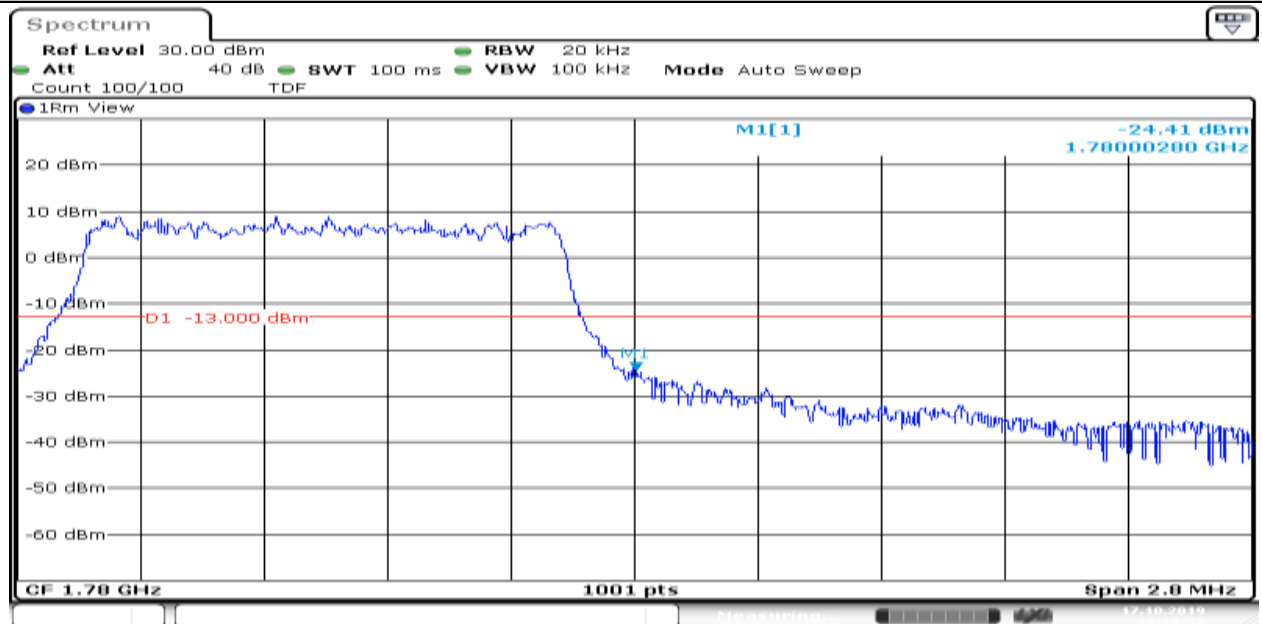
### Test Graphs





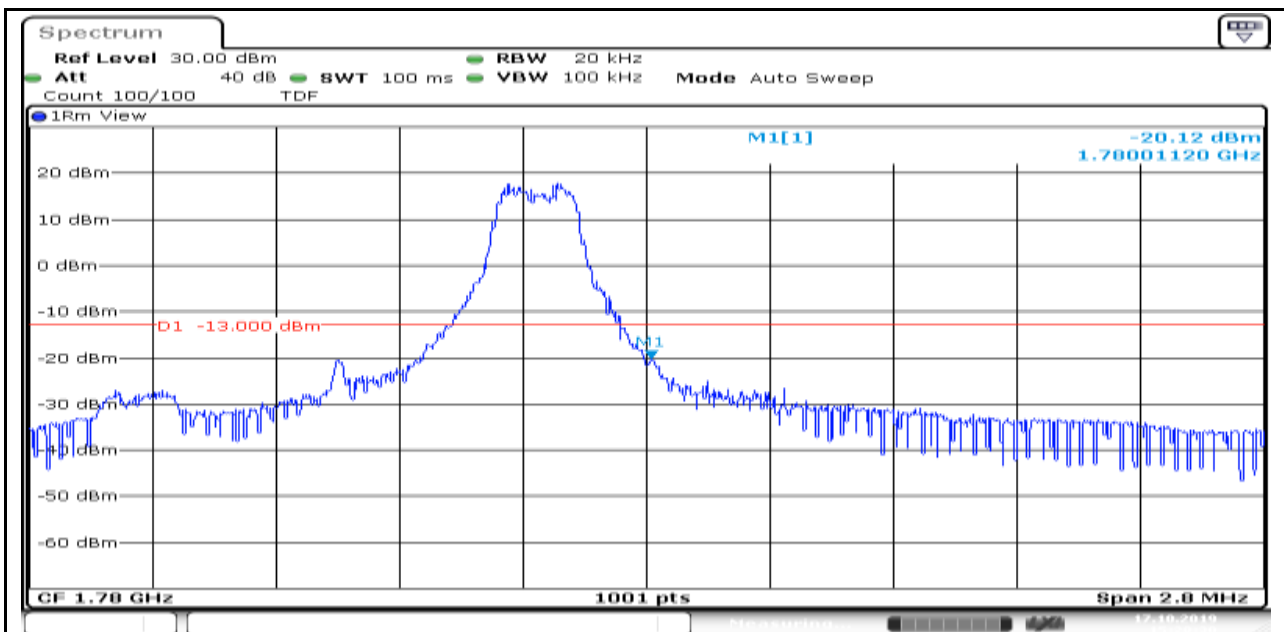
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## Band66\_1.4MHz\_QPSK\_132665\_6\_0\_Low



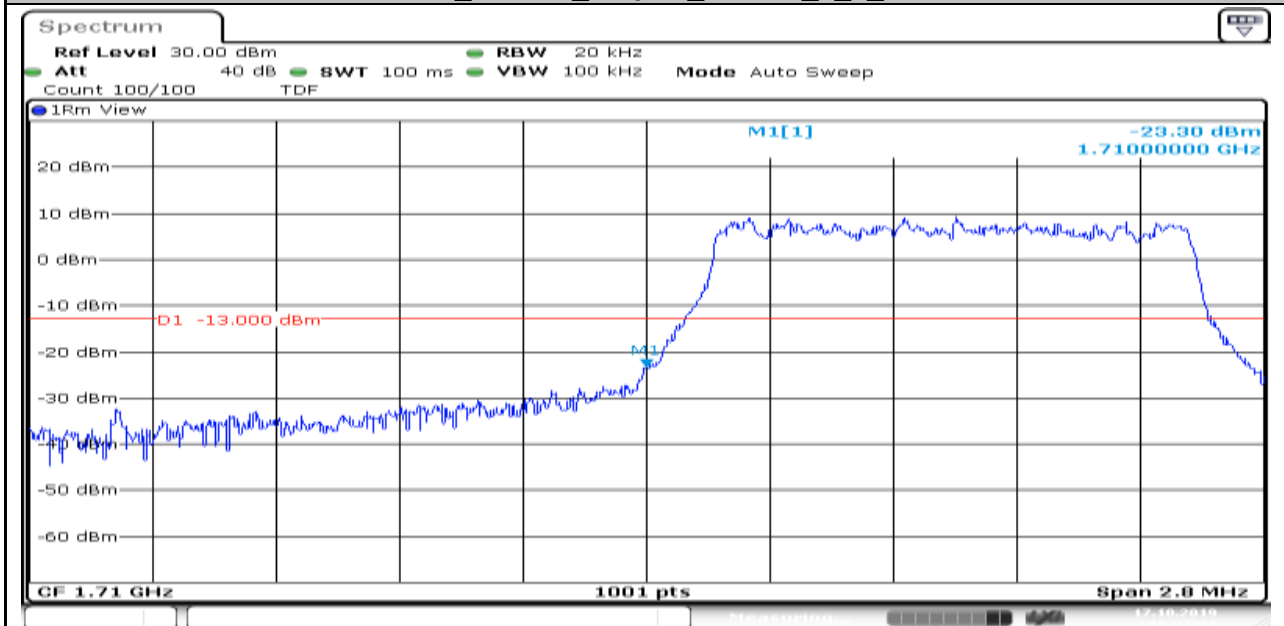
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## Band66\_1.4MHz\_QPSK\_132665\_1\_5\_Low



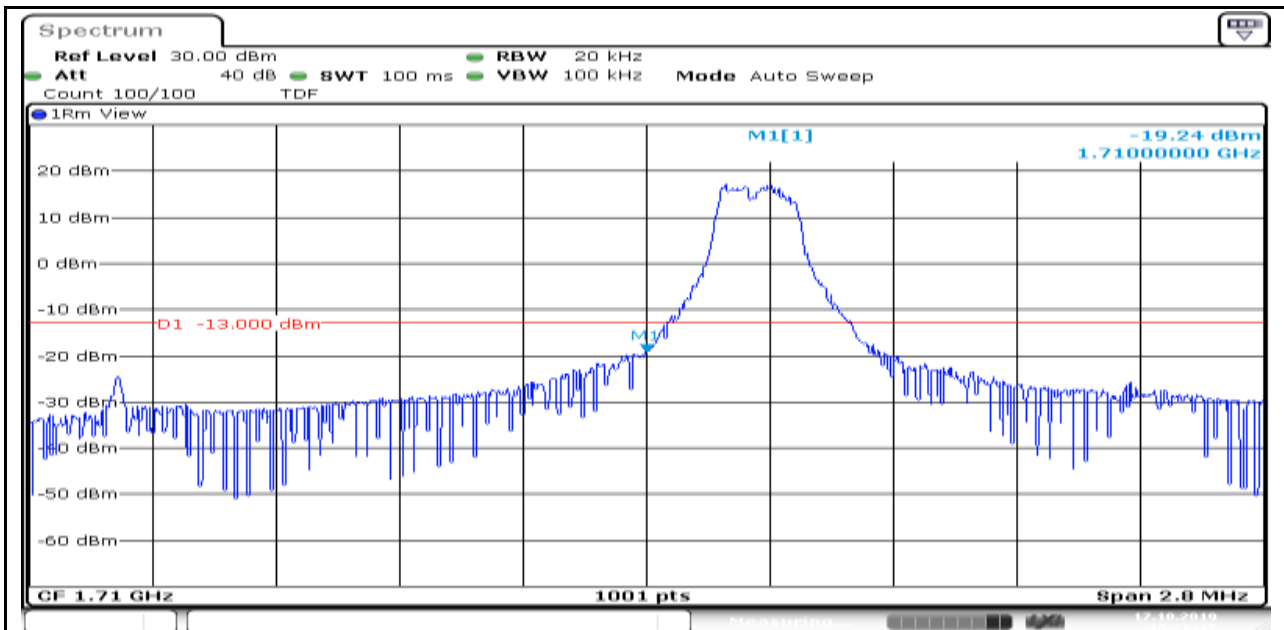
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Band66\_1.4MHz\_16QAM\_131979\_6\_0\_Low



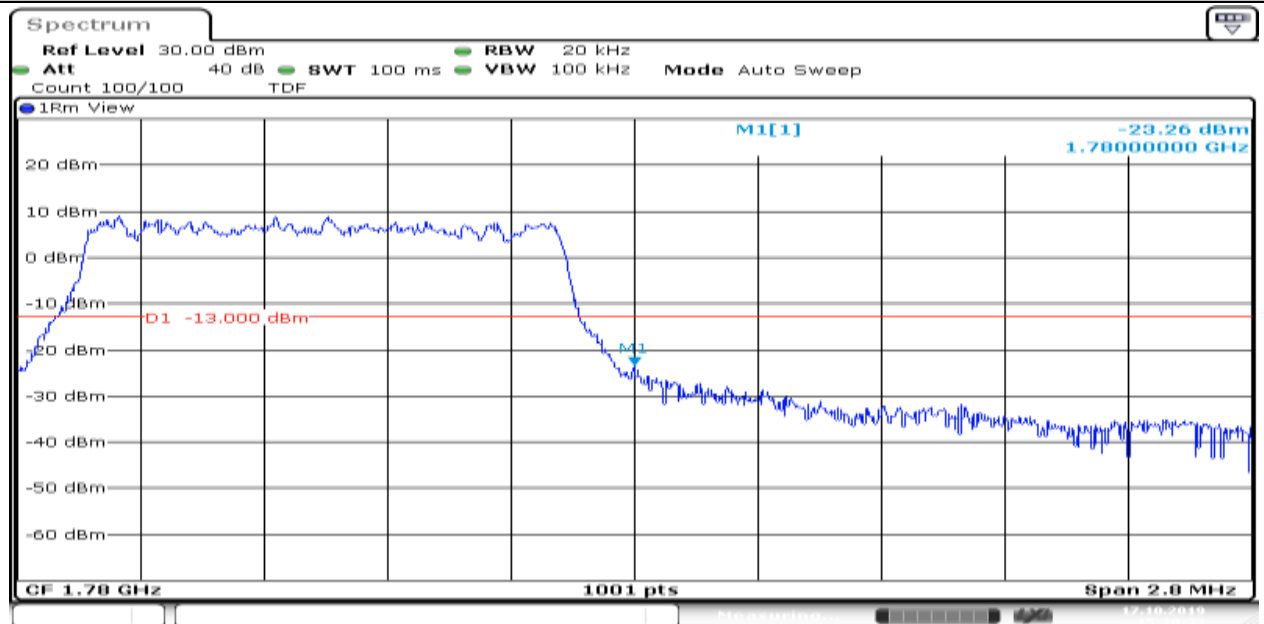
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Band66\_1.4MHz\_16QAM\_131979\_1\_0\_Low



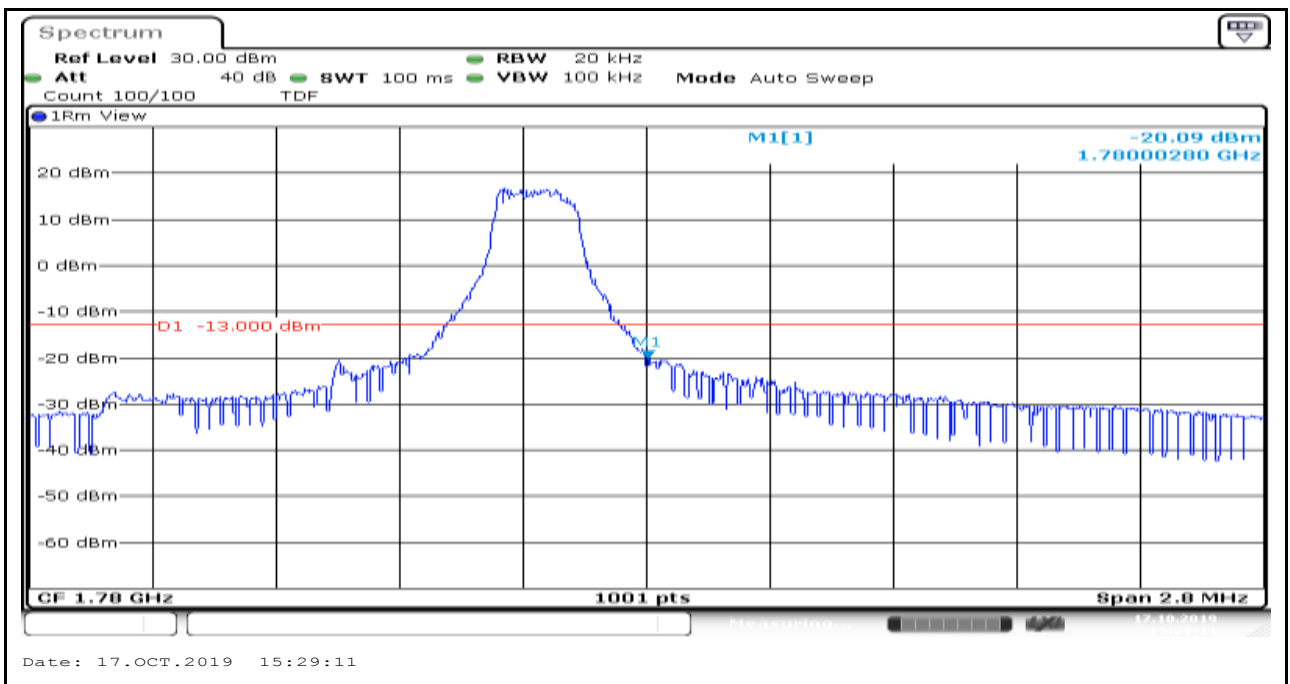
Date: 17.OCT.2019 15:26:17

Band66\_1.4MHz\_16QAM\_132665\_6\_0\_Low



Date: 17.OCT.2019 15:30:33

Band66\_1.4MHz\_16QAM\_132665\_1\_5\_Low



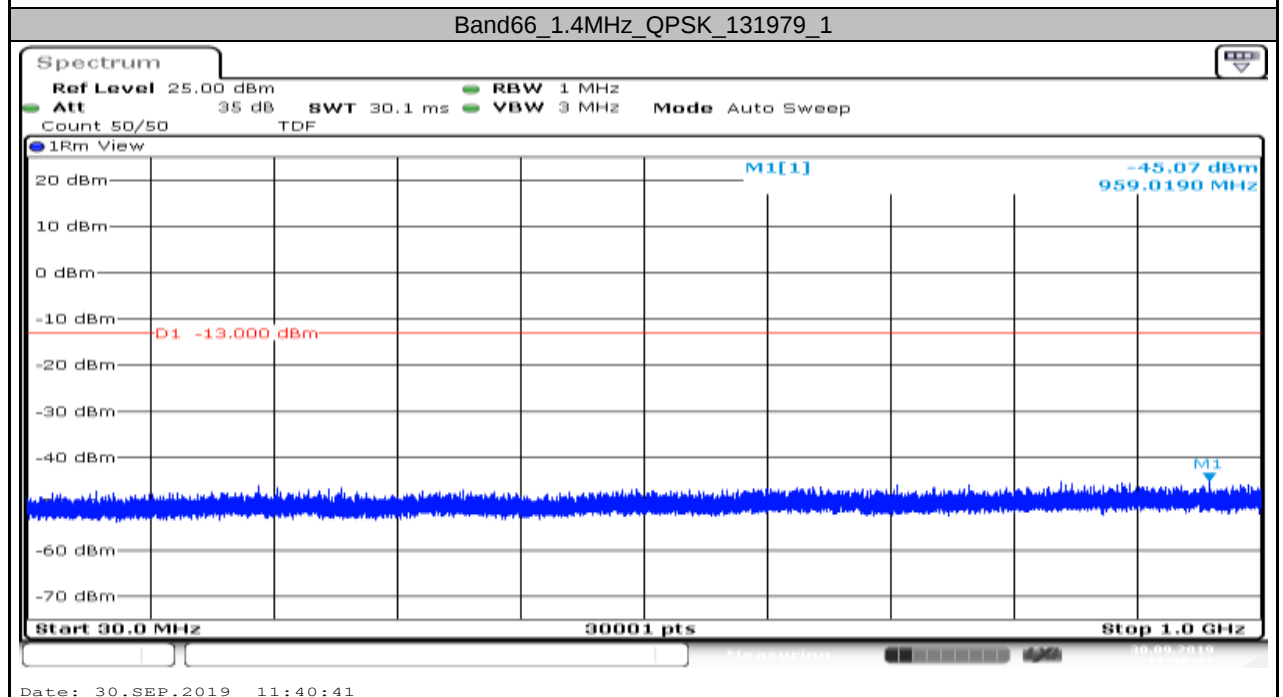
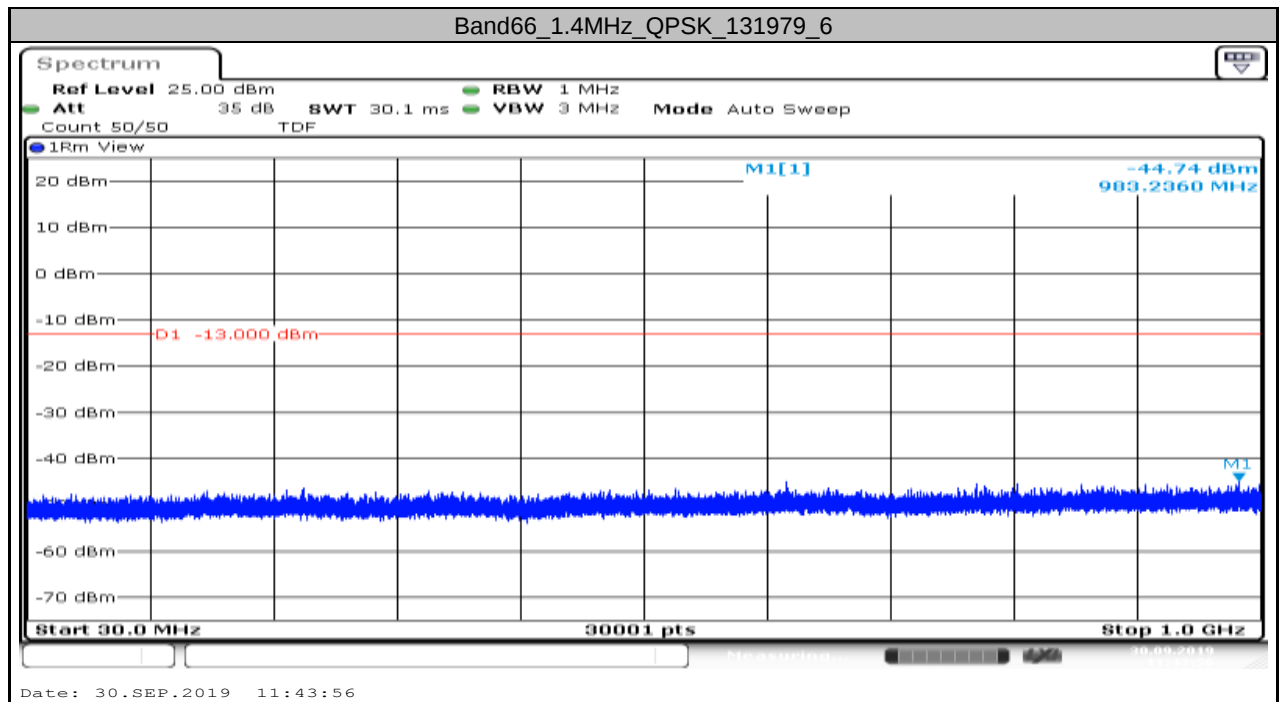
## Appendix I.5: Conducted Spurious Emission for M1

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Start Freq | Stop Freq | Result (dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|------------|-----------|--------------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 6       | 0        | Low      | 30         | 1000      | -44.74       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1       | 0        | Low      | 30         | 1000      | -45.07       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 6       | 0        | Low      | 12000      | 26500     | -59.54       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 6       | 0        | Low      | 5000       | 12000     | -57.28       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 6       | 0        | Low      | 1000       | 5000      | -48          | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1       | 0        | Low      | 12000      | 26500     | -59.58       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1       | 0        | Low      | 1000       | 5000      | -45.62       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 131979  | 1       | 0        | Low      | 5000       | 12000     | -53.25       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6       | 0        | Low      | 12000      | 26500     | -59.52       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | 1000       | 5000      | -46.84       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | 5000       | 12000     | -57.22       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | 12000      | 26500     | -59.64       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6       | 0        | Low      | 1000       | 5000      | -42.89       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | 30         | 1000      | -43.41       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6       | 0        | Low      | 5000       | 12000     | -57.72       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6       | 0        | Low      | 30         | 1000      | -45.05       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1       | 5        | Low      | 12000      | 26500     | -59.5        | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6       | 0        | Low      | 12000      | 26500     | -59.66       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6       | 0        | Low      | 5000       | 12000     | -56.16       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6       | 0        | Low      | 30         | 1000      | -45.24       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1       | 5        | Low      | 1000       | 5000      | -39.08       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1       | 5        | Low      | 5000       | 12000     | -51.86       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 1       | 5        | Low      | 30         | 1000      | -45.14       | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6       | 0        | Low      | 1000       | 5000      | -45.1        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1       | 0        | Low      | 1000       | 5000      | -46.9        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1       | 0        | Low      | 5000       | 12000     | -53.9        | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1       | 0        | Low      | 12000      | 26500     | -59.45       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6       | 0        | Low      | 12000      | 26500     | -59.68       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6       | 0        | Low      | 5000       | 12000     | -57.83       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6       | 0        | Low      | 30         | 1000      | -45.33       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 1       | 0        | Low      | 30         | 1000      | -44.47       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6       | 0        | Low      | 1000       | 5000      | -47.92       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6       | 0        | Low      | 12000      | 26500     | -59.69       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | 1000       | 5000      | -43.62       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | 12000      | 26500     | -59.54       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6       | 0        | Low      | 30         | 1000      | -44.86       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6       | 0        | Low      | 1000       | 5000      | -44.59       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6       | 0        | Low      | 5000       | 12000     | -56.99       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | 30         | 1000      | -44.88       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | 5000       | 12000     | -53.89       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6       | 0        | Low      | 5000       | 12000     | -56.14       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6       | 0        | Low      | 1000       | 5000      | -40.65       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6       | 0        | Low      | 30         | 1000      | -44.88       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1       | 5        | Low      | 12000      | 26500     | -59.62       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1       | 5        | Low      | 5000       | 12000     | -52.55       | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 1       | 5        | Low      | 30         | 1000      | -45.34       | PASS    |

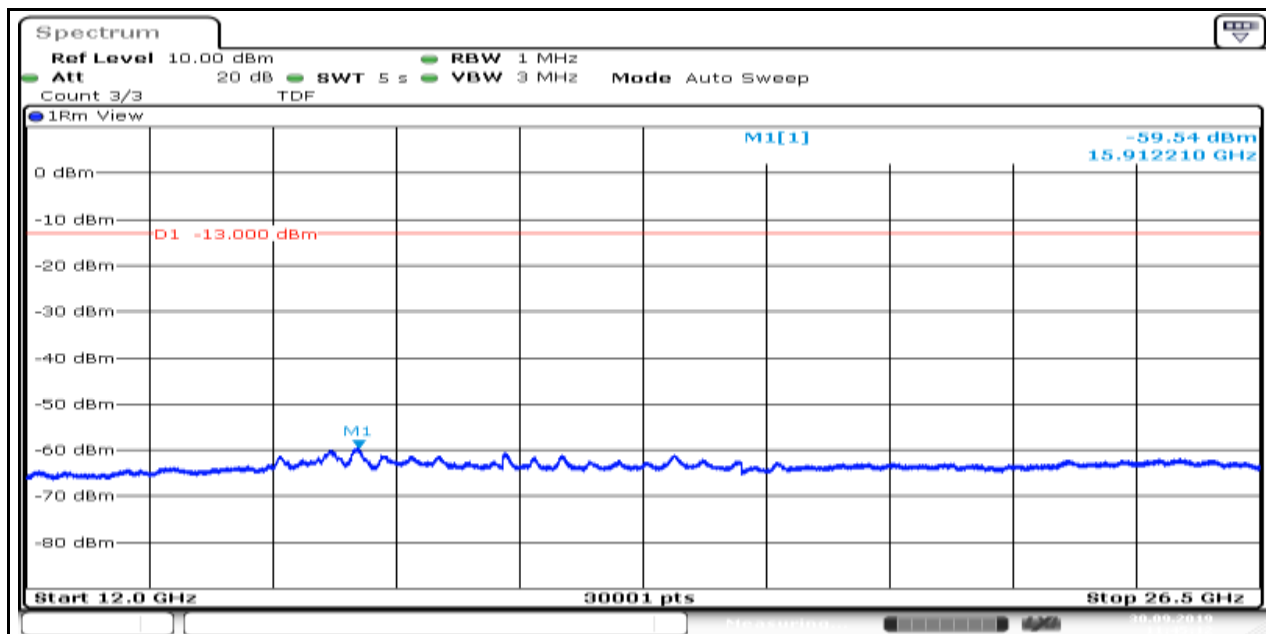
|        |        |       |        |   |   |     |       |       |        |      |
|--------|--------|-------|--------|---|---|-----|-------|-------|--------|------|
| Band66 | 1.4MHz | 16QAM | 132665 | 6 | 0 | Low | 12000 | 26500 | -59.46 | PASS |
| Band66 | 1.4MHz | 16QAM | 132665 | 1 | 5 | Low | 1000  | 5000  | -39.5  | PASS |

## Test Graphs

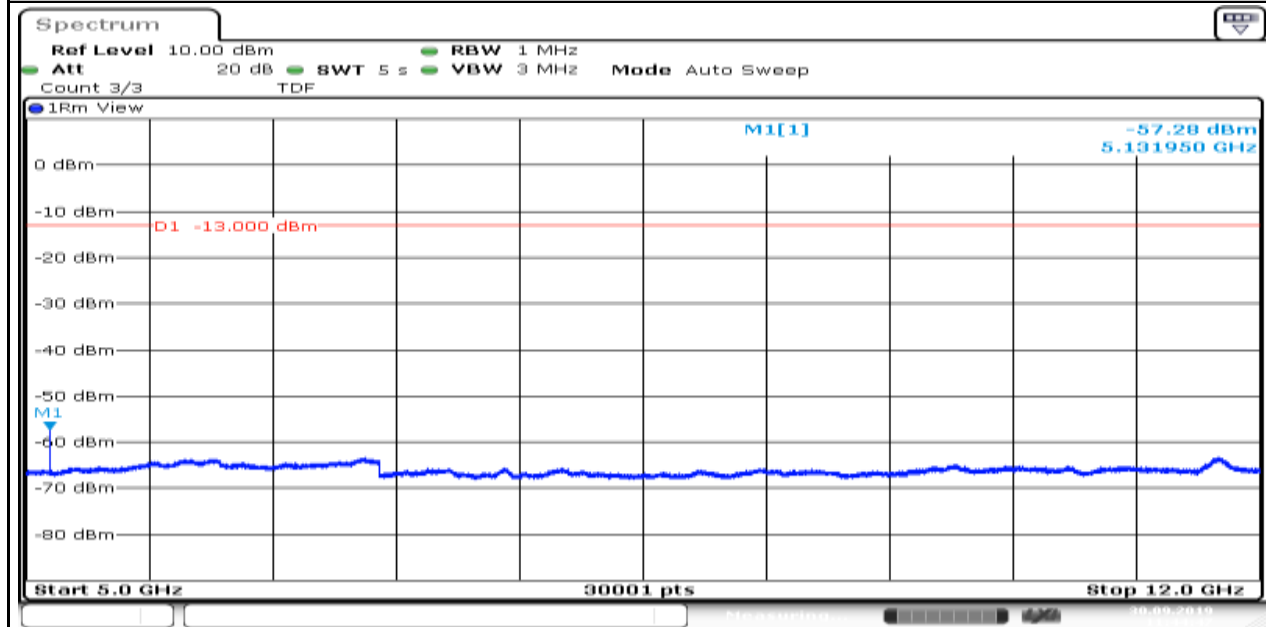


Band66\_1.4MHz\_QPSK\_131979\_6

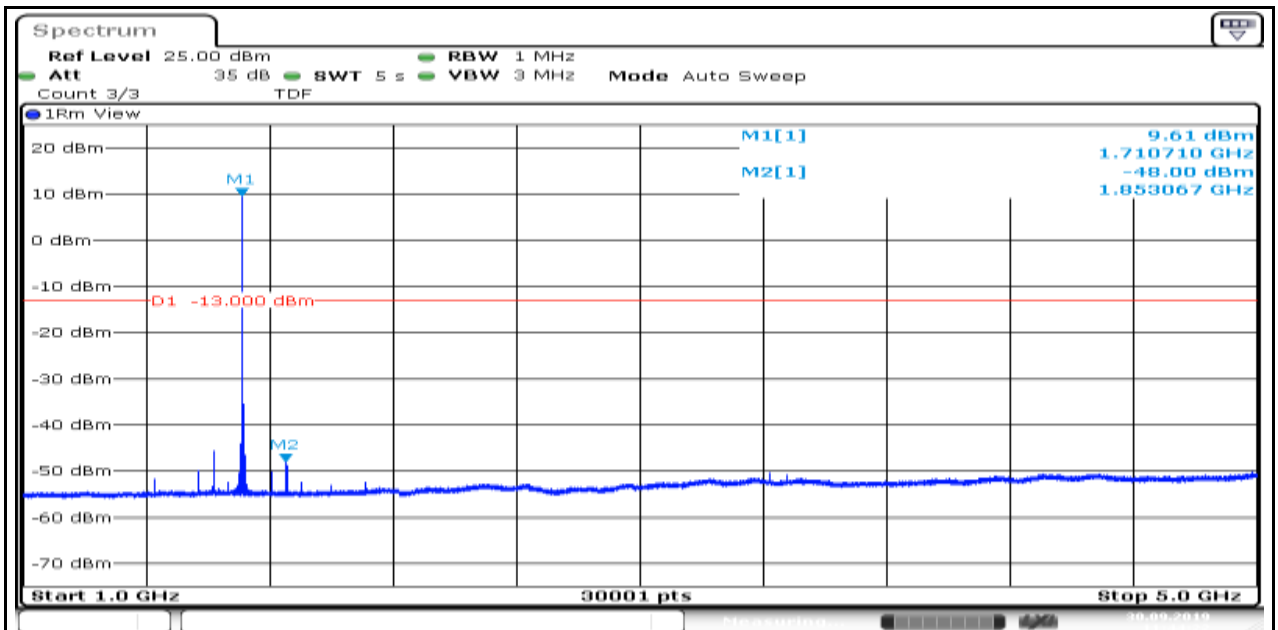
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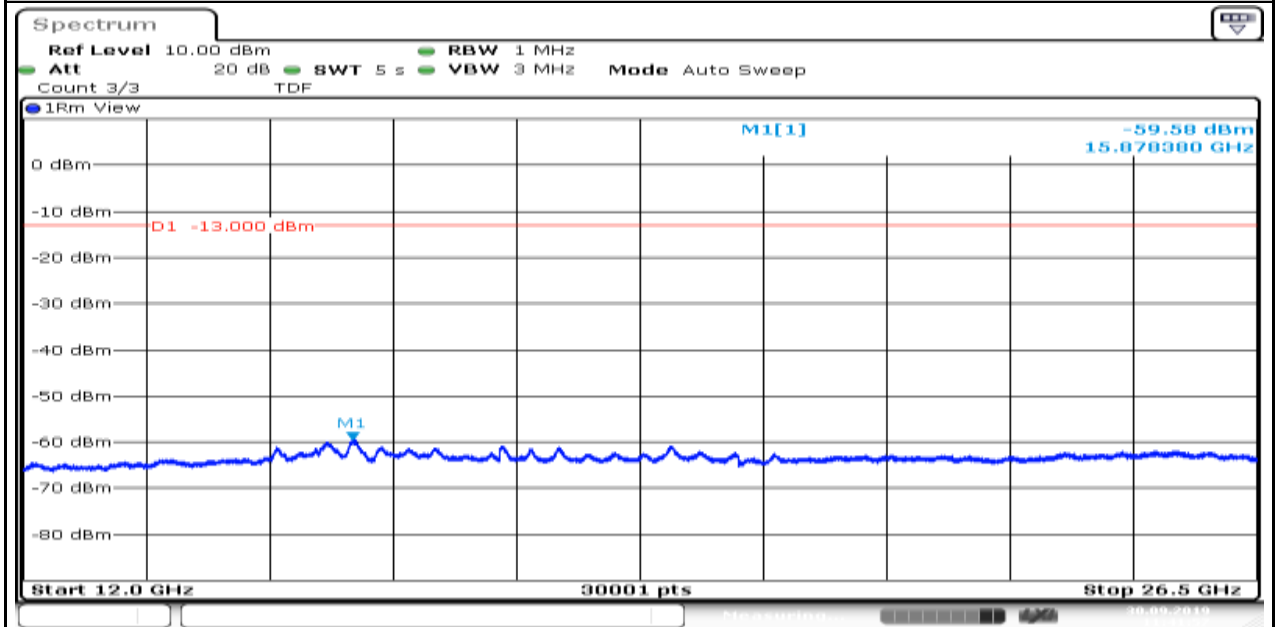
Band66\_1.4MHz\_QPSK\_131979\_6



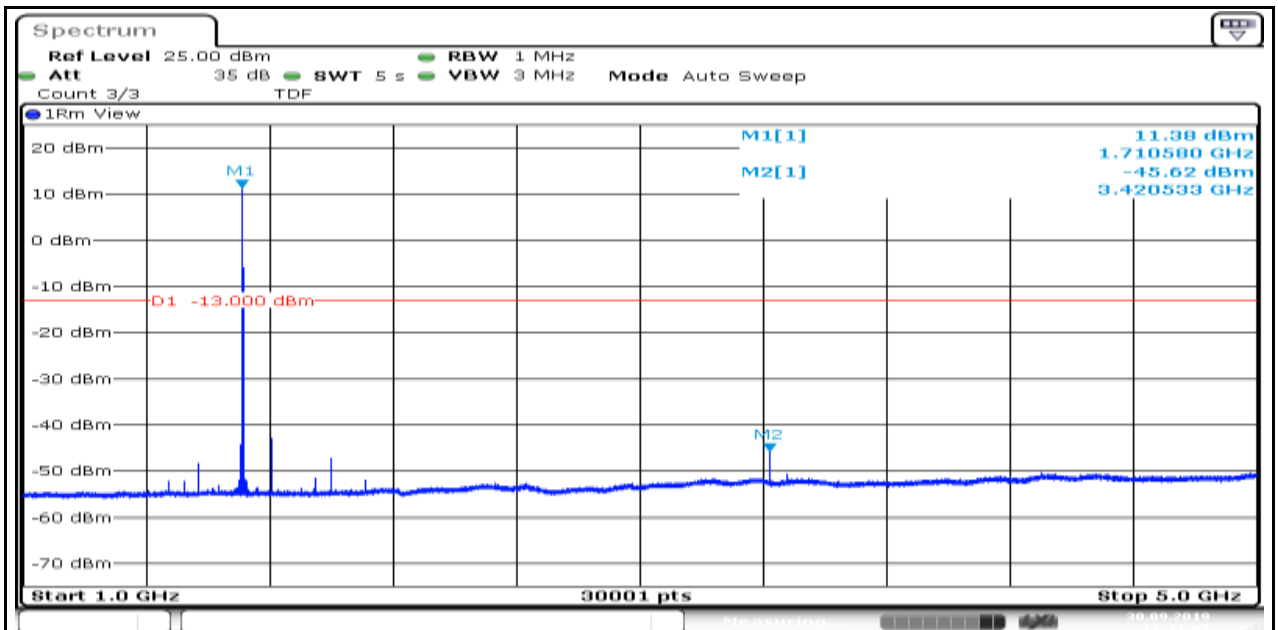
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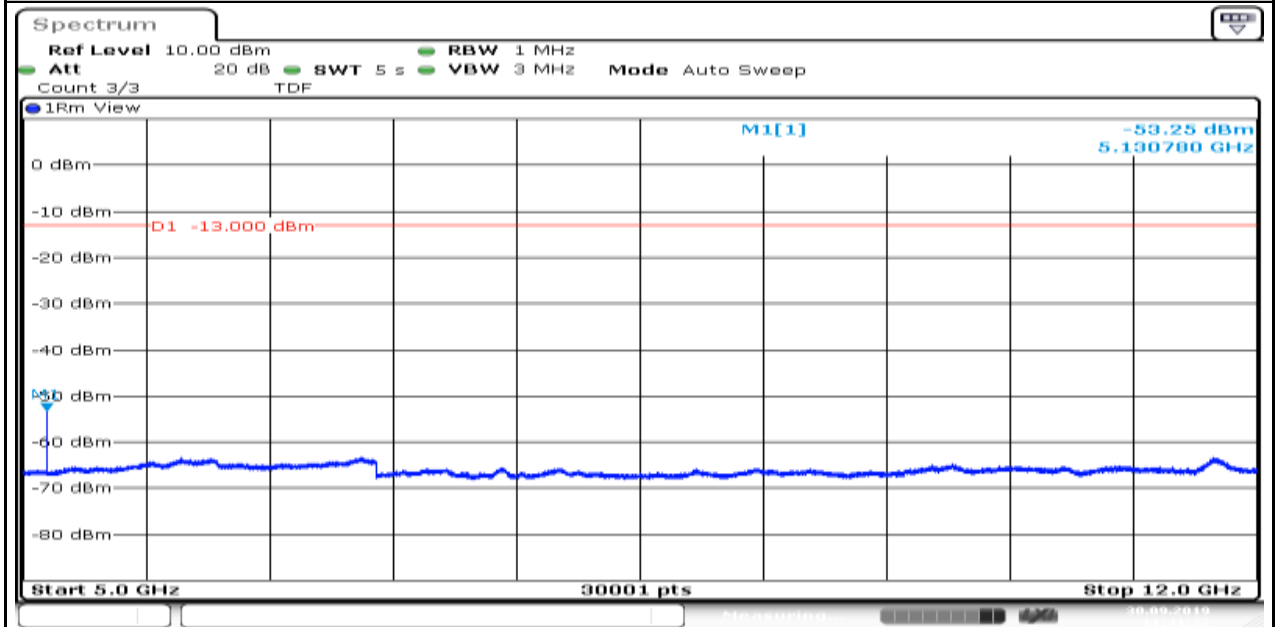
Band66\_1.4MHz\_QPSK\_131979\_1



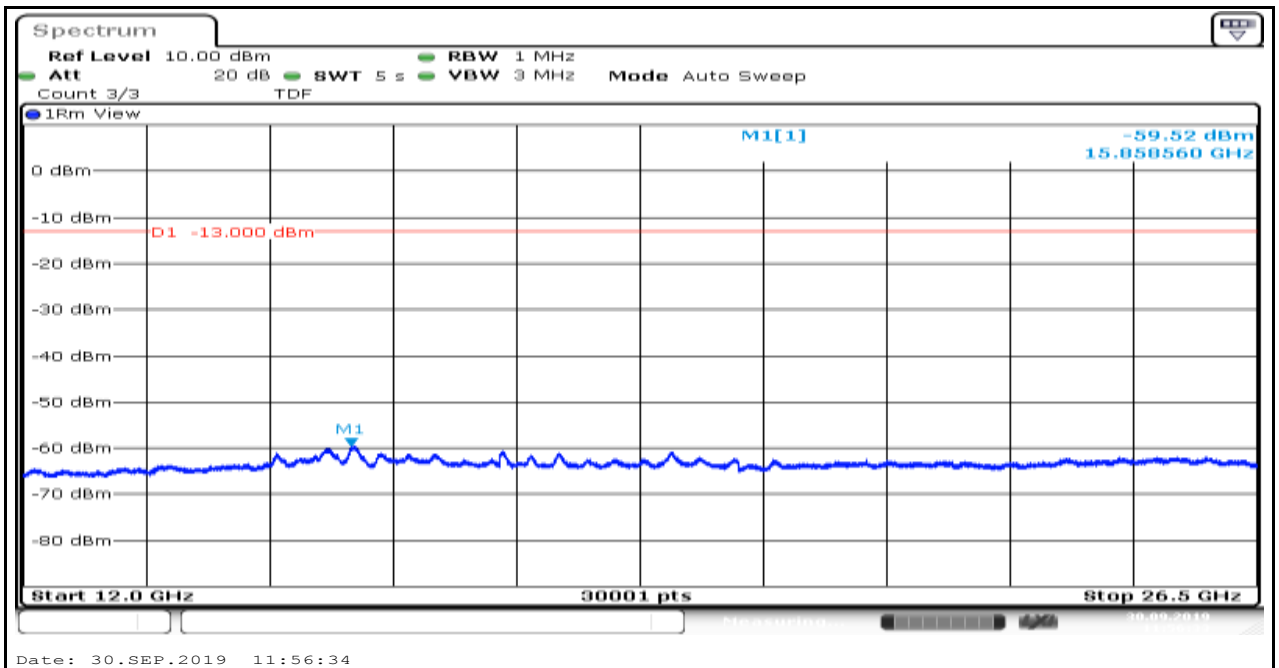
Band66\_1.4MHz\_QPSK\_131979\_1



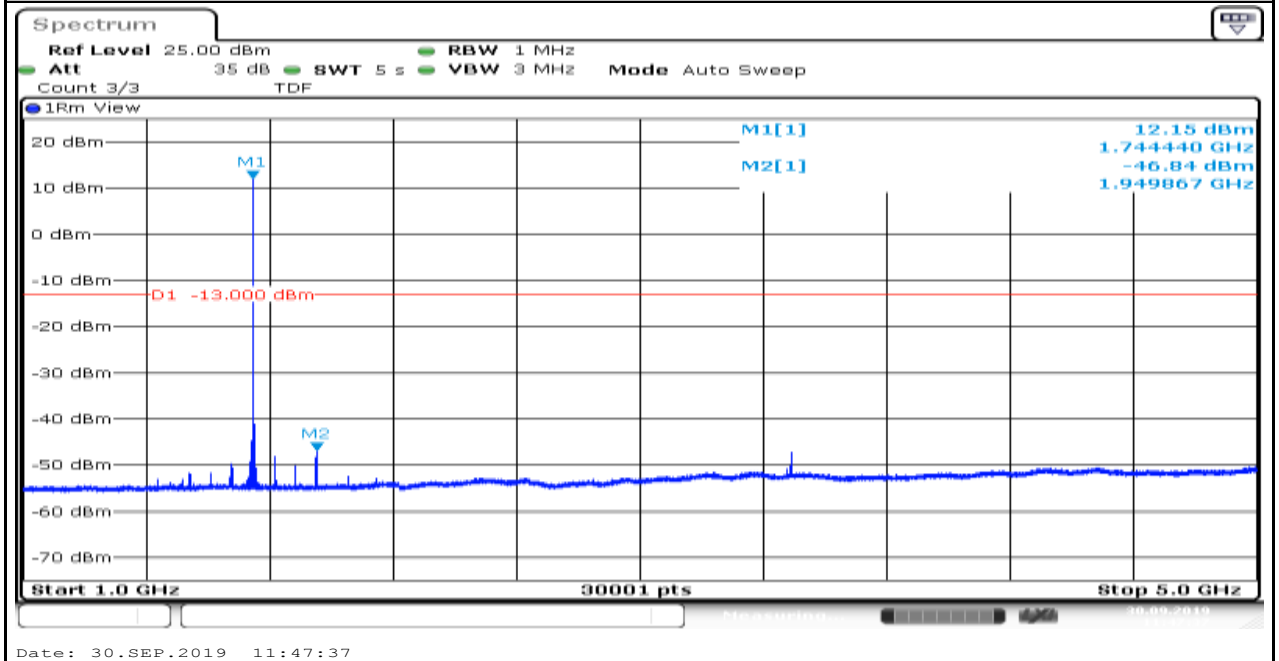
Band66\_1.4MHz\_QPSK\_131979\_1



Band66\_1.4MHz\_QPSK\_132322\_6

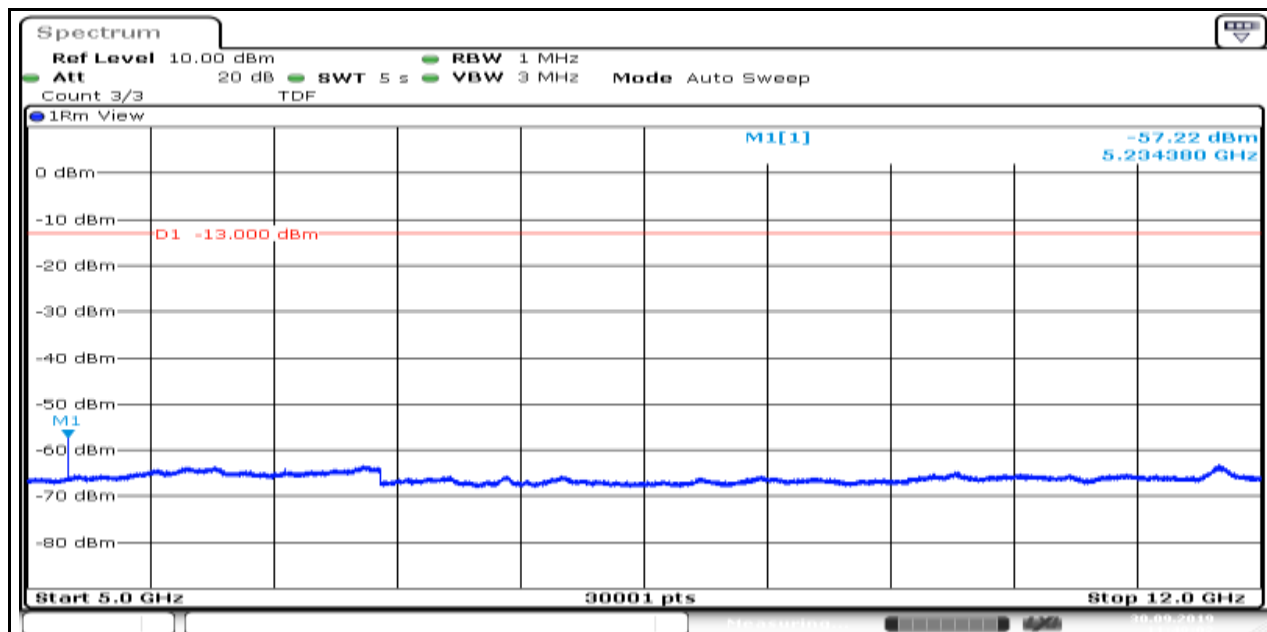


Band66\_1.4MHz\_QPSK\_132322\_1



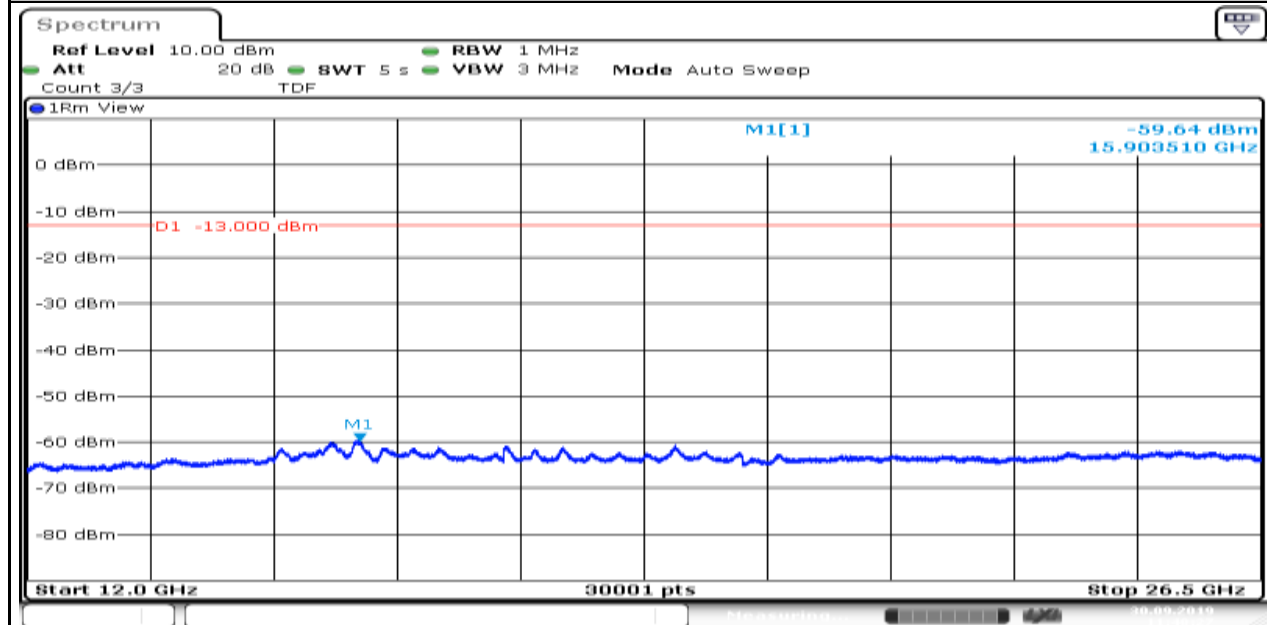
Band66\_1.4MHz\_QPSK\_132322\_1

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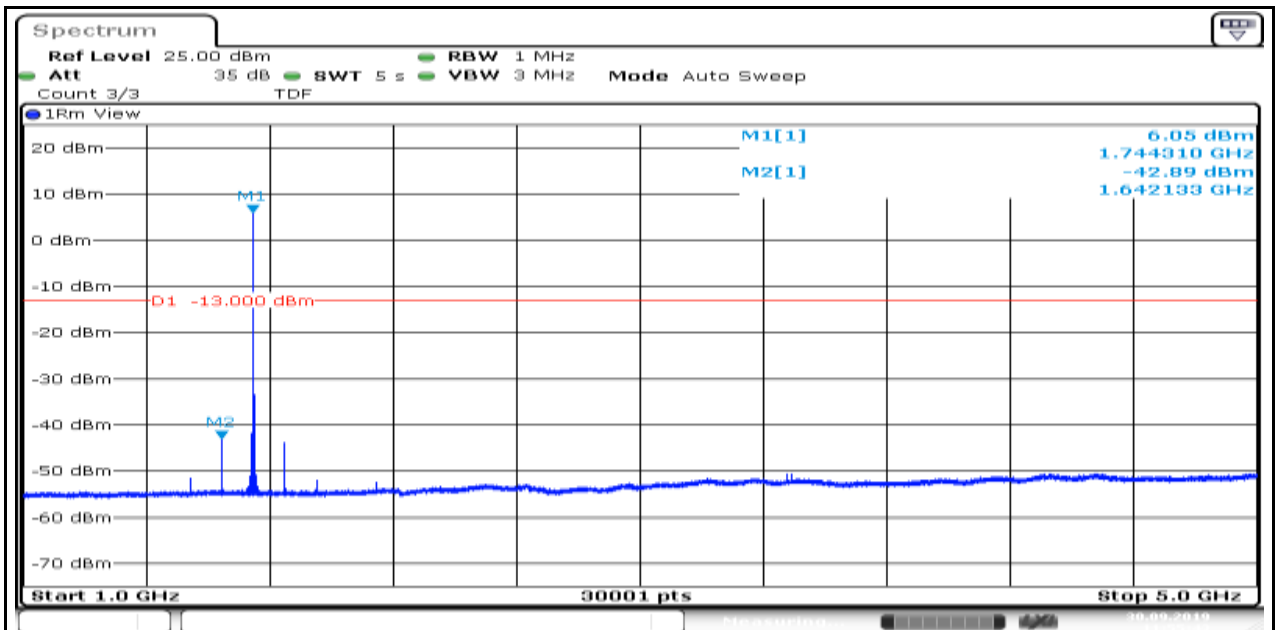
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Band66\_1.4MHz\_QPSK\_132322\_1

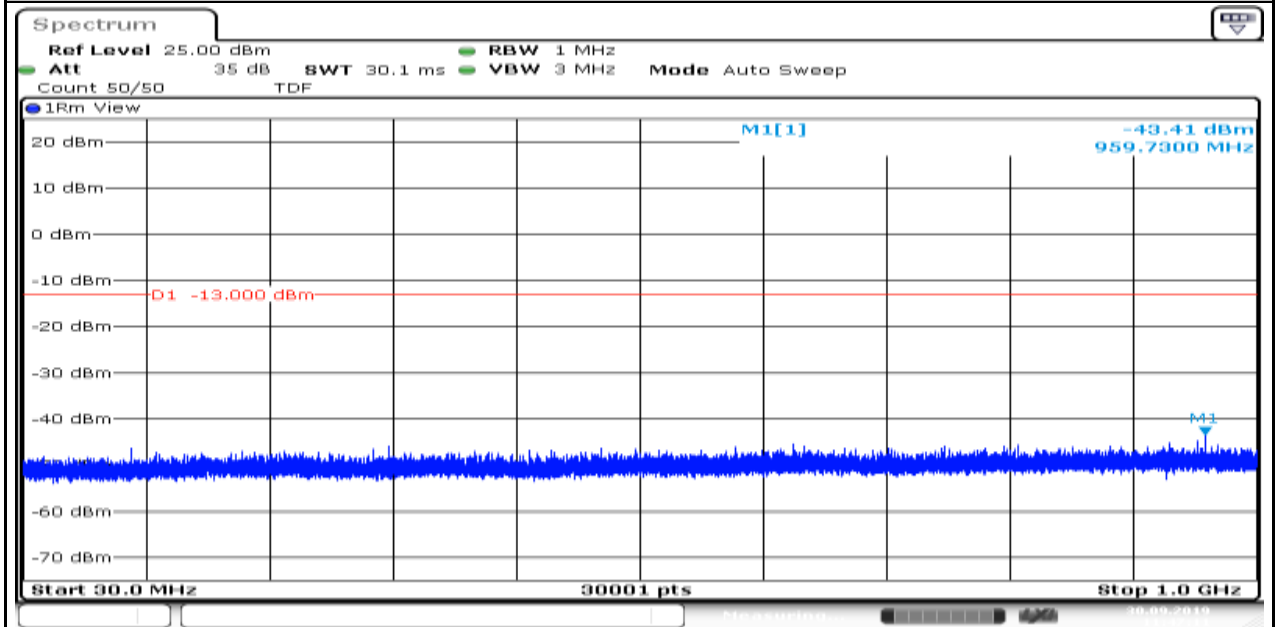


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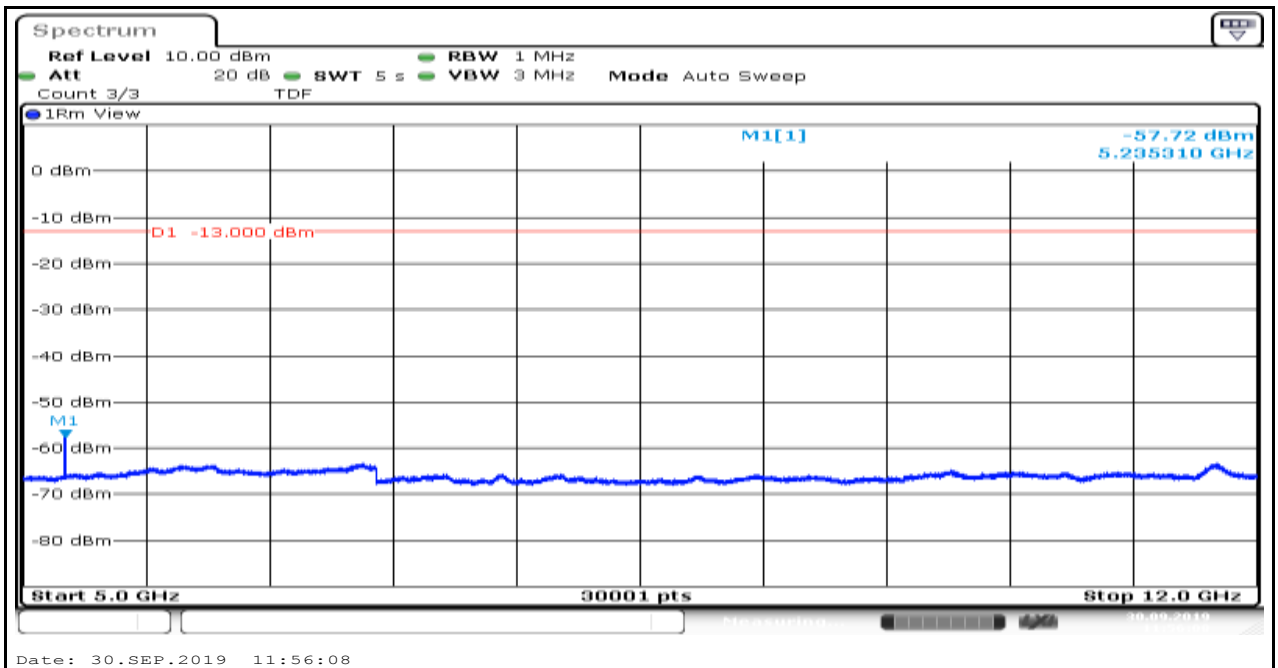
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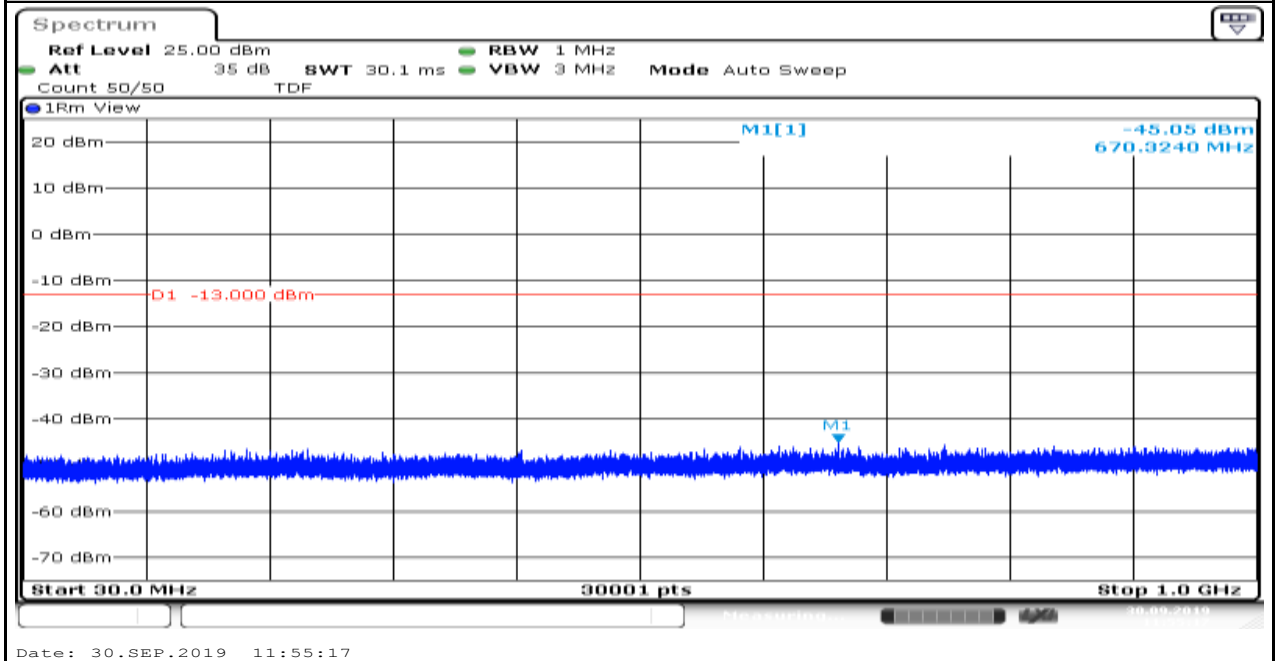
Band66\_1.4MHz\_QPSK\_132322\_1



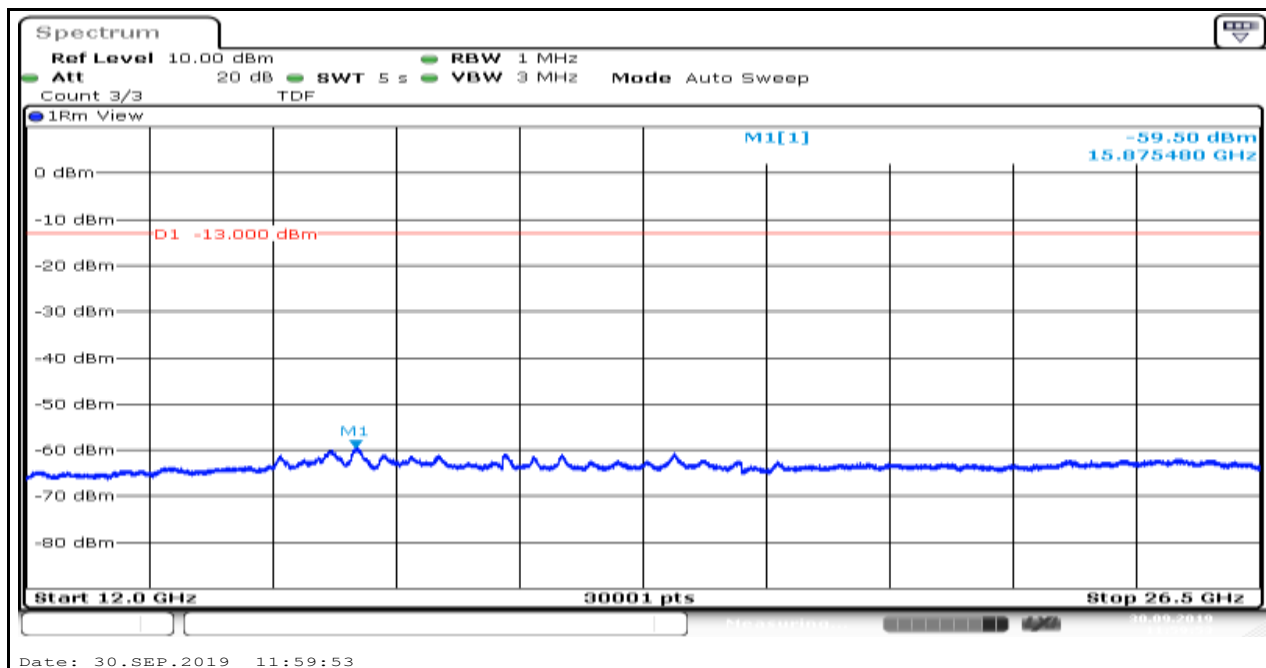
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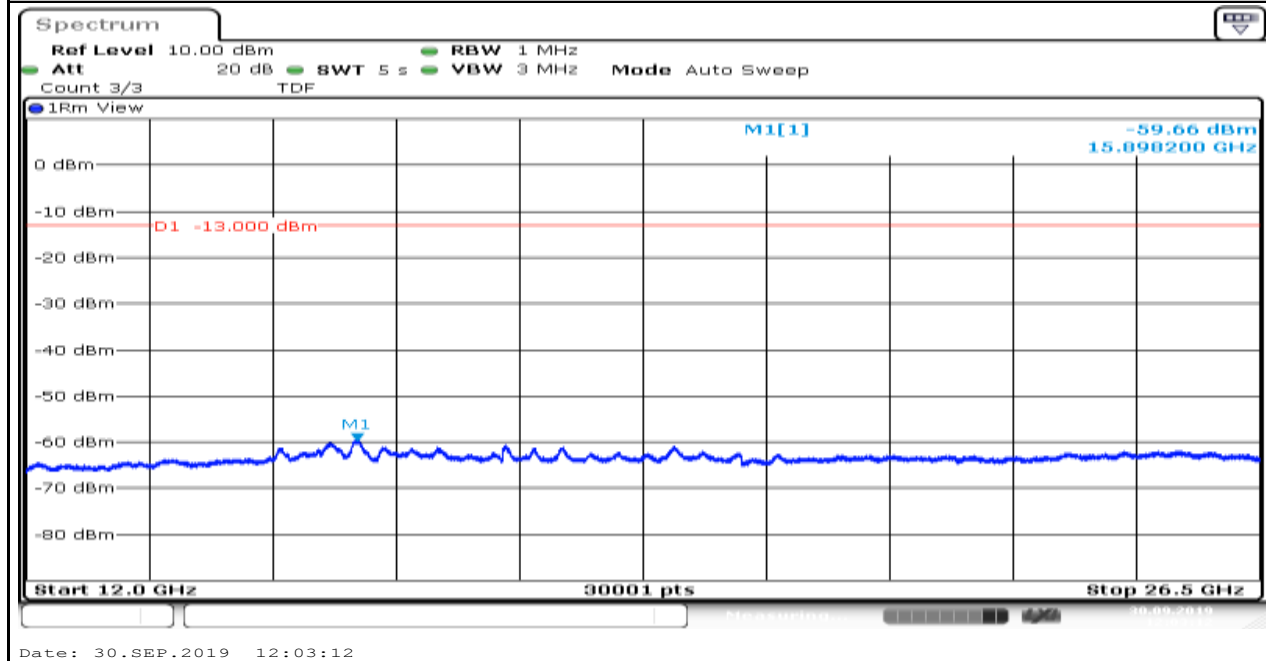
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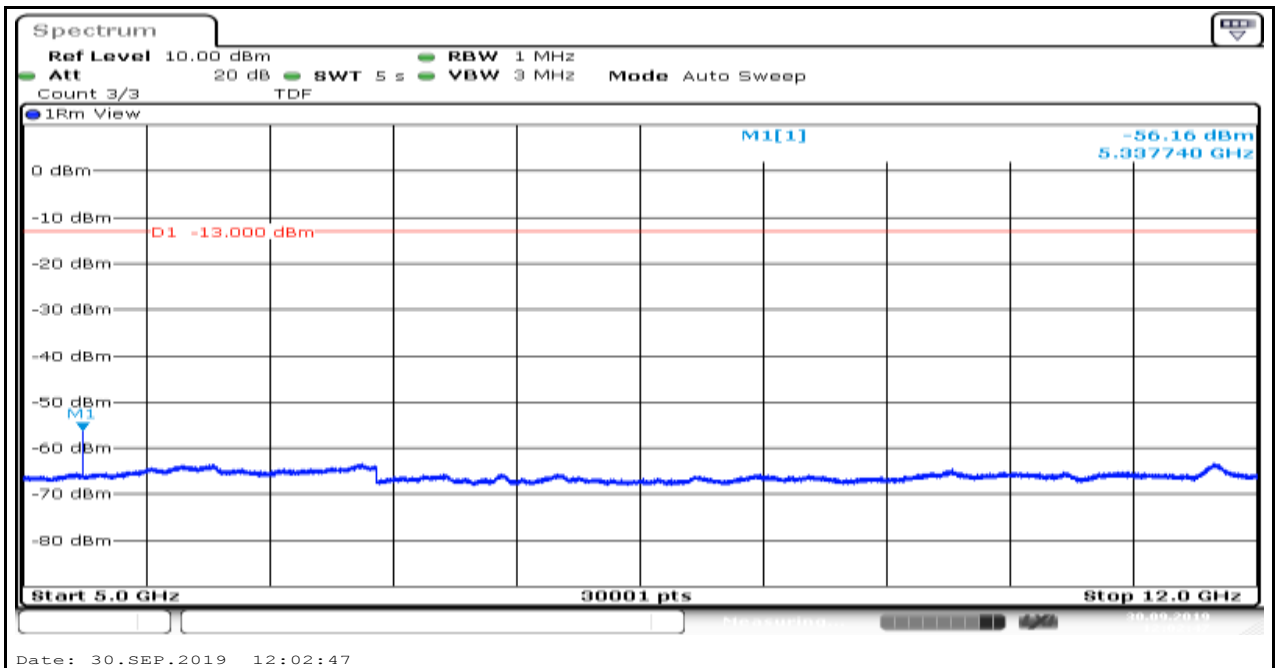
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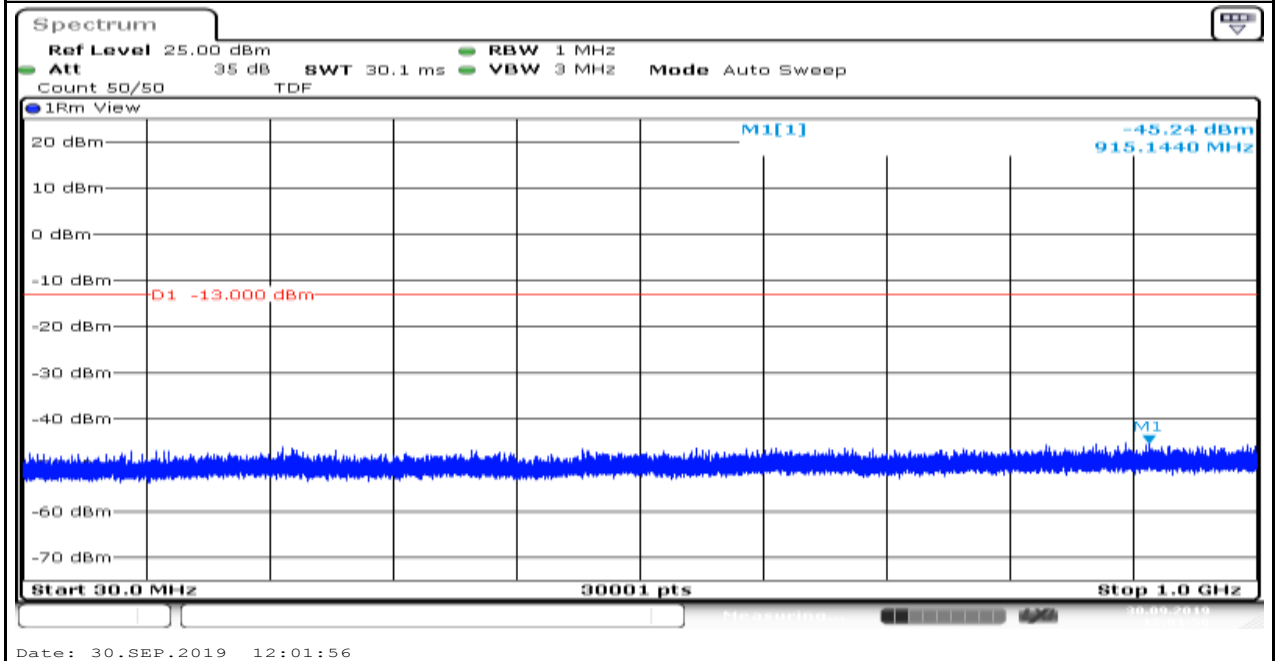
Band66\_1.4MHz\_QPSK\_132665\_6



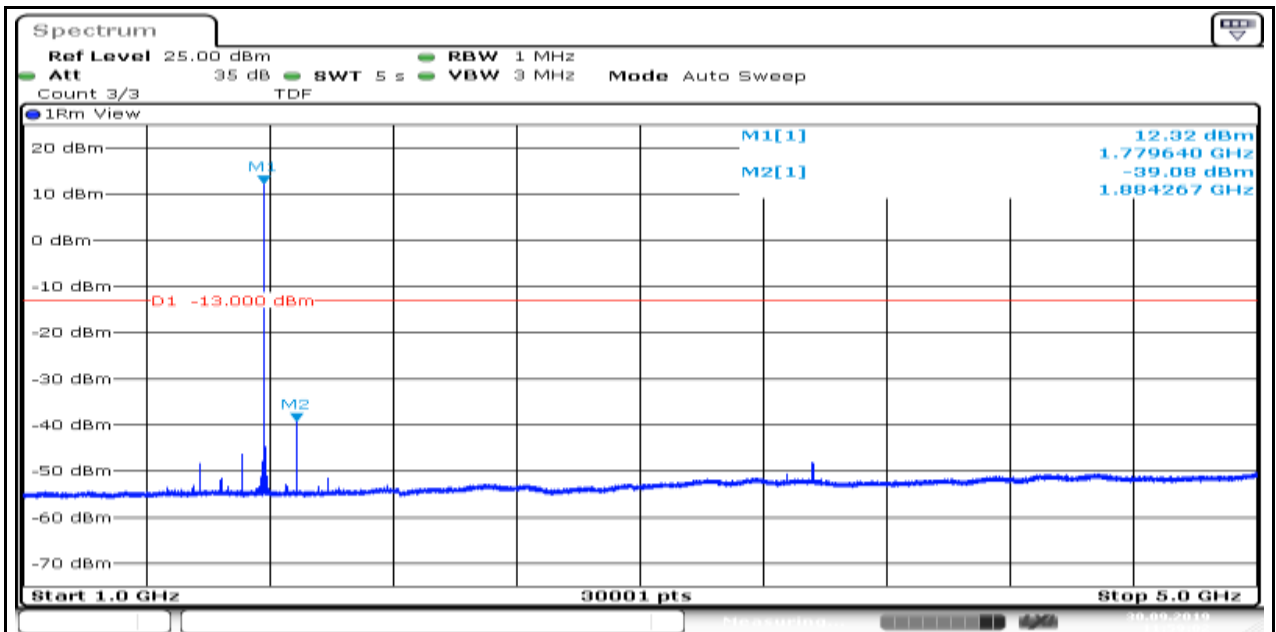
Band66\_1.4MHz\_QPSK\_132665\_6



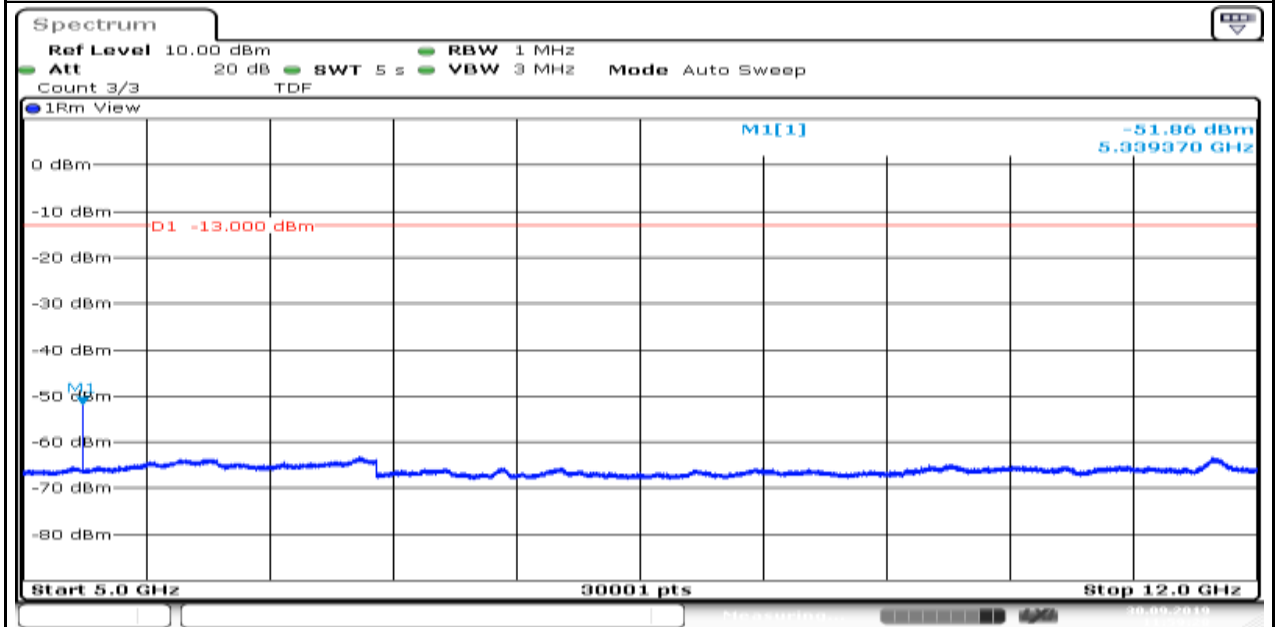
Band66\_1.4MHz\_QPSK\_132665\_6



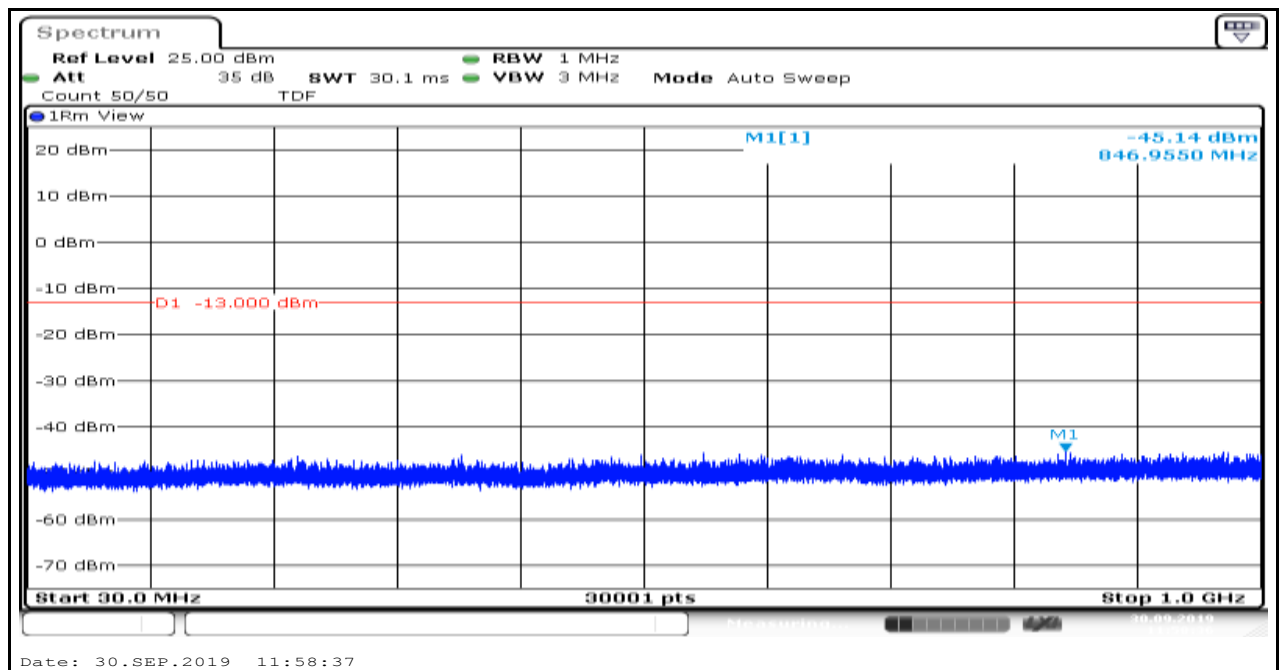
Band66\_1.4MHz\_QPSK\_132665\_1



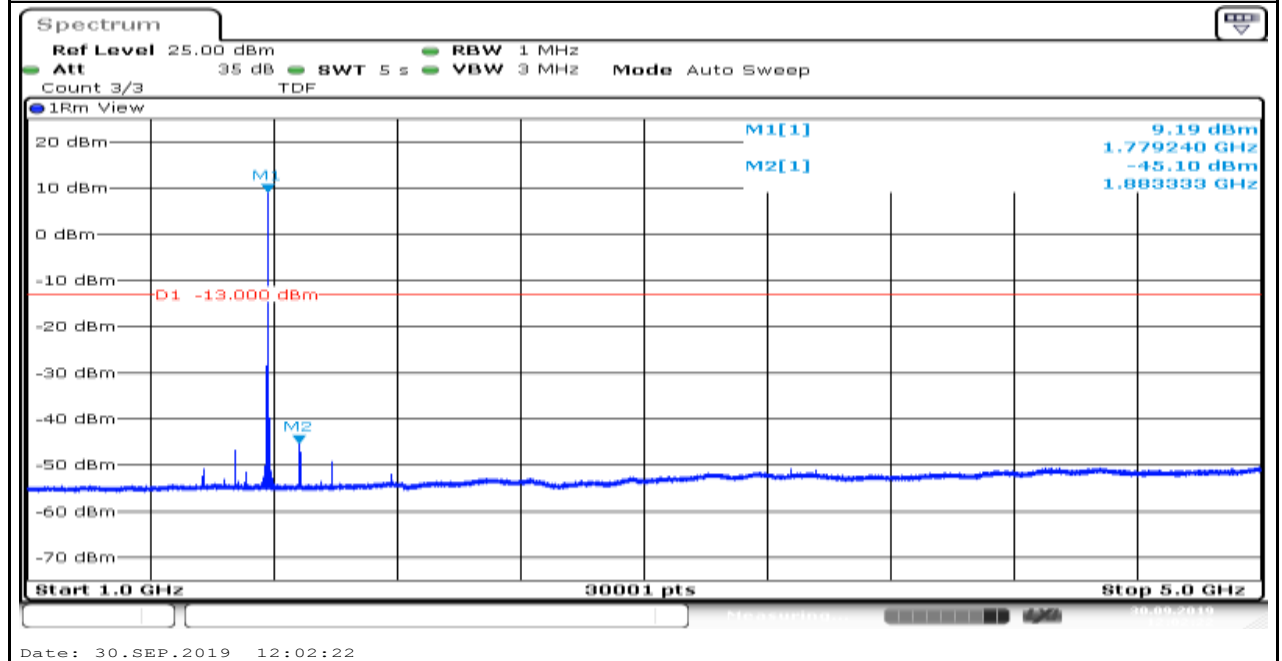
Band66\_1.4MHz\_QPSK\_132665\_1



Band66\_1.4MHz\_QPSK\_132665\_1

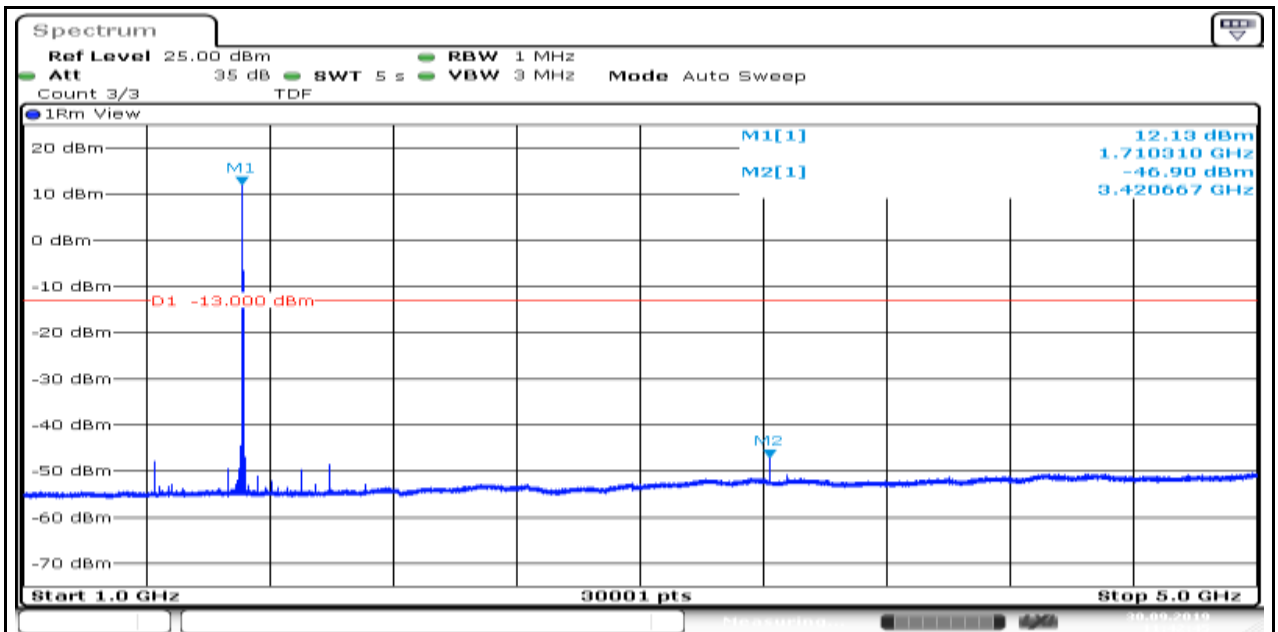


Band66\_1.4MHz\_QPSK\_132665\_6

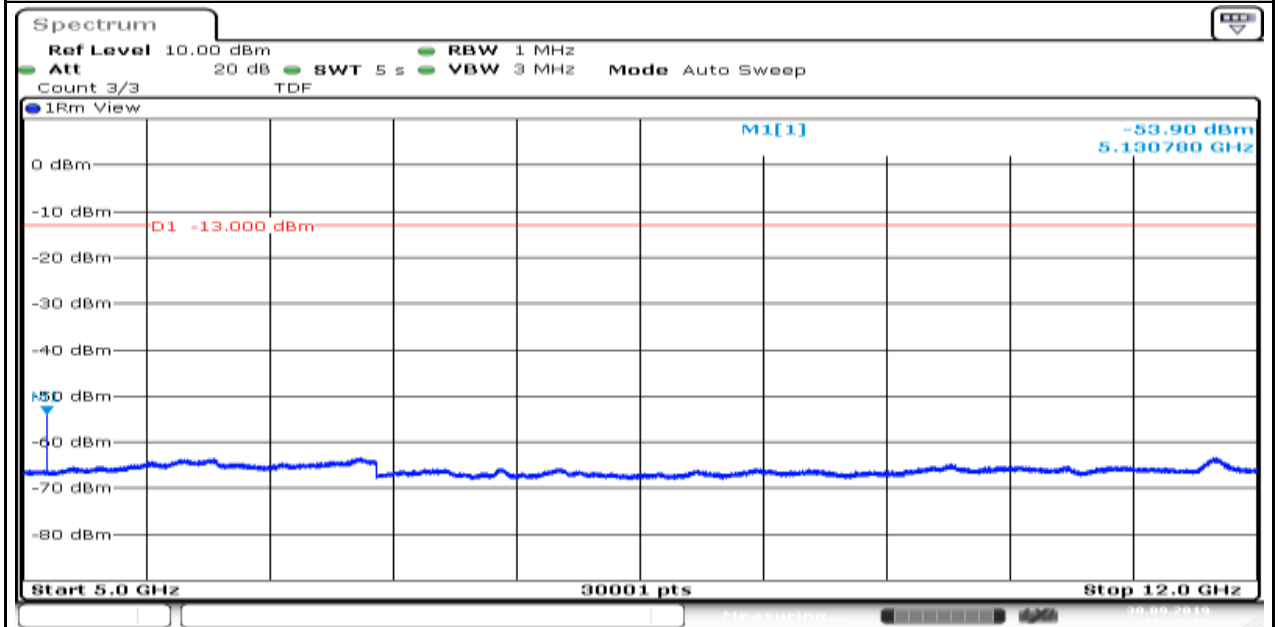


Band66\_1.4MHz\_16QAM\_131979\_1

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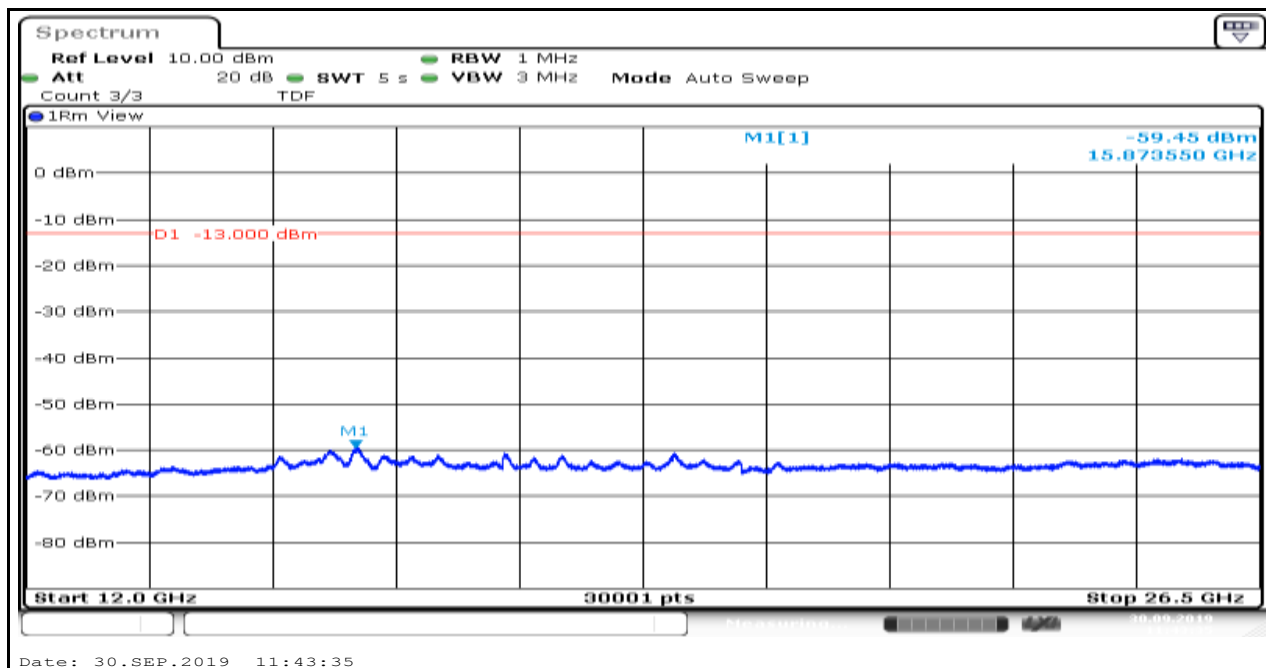


Band66\_1.4MHz\_16QAM\_131979\_1

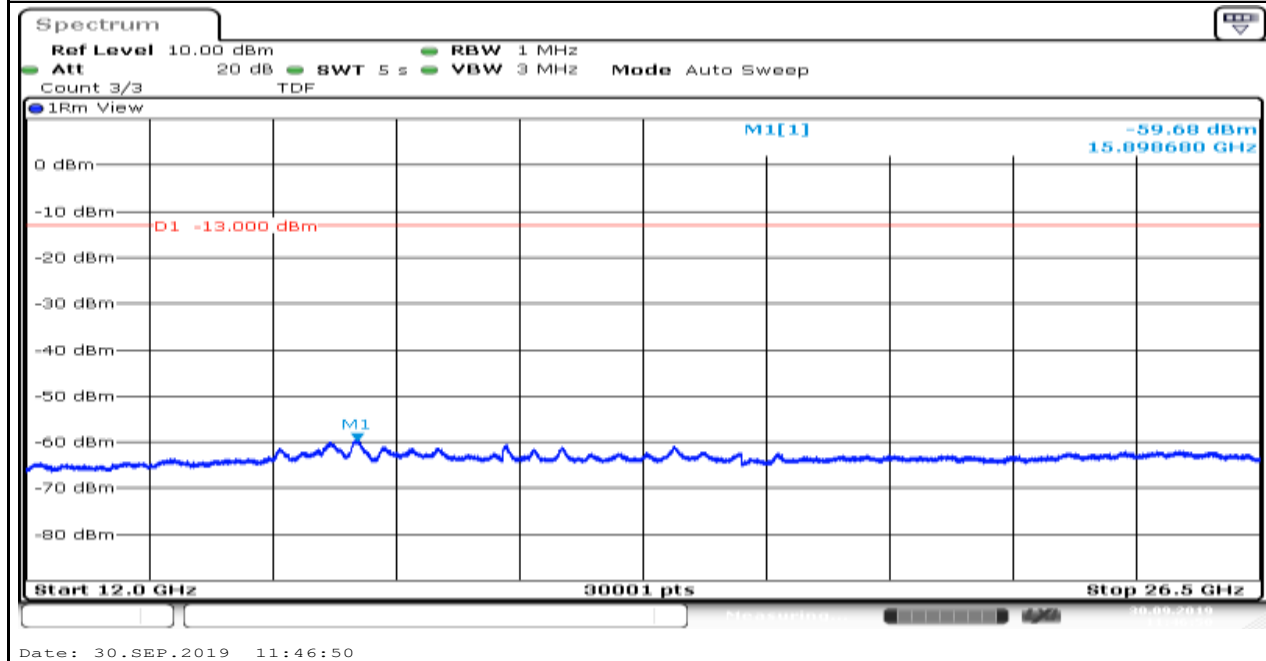


Band66\_1.4MHz\_16QAM\_131979\_1

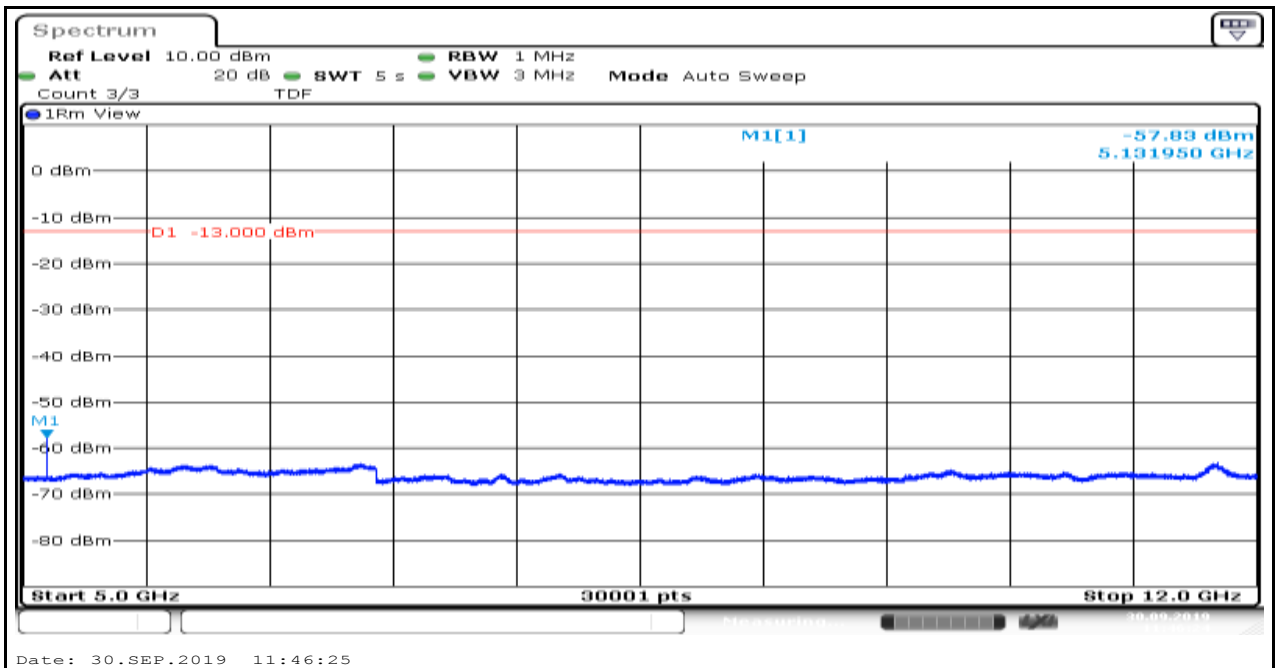
Produkte  
Products



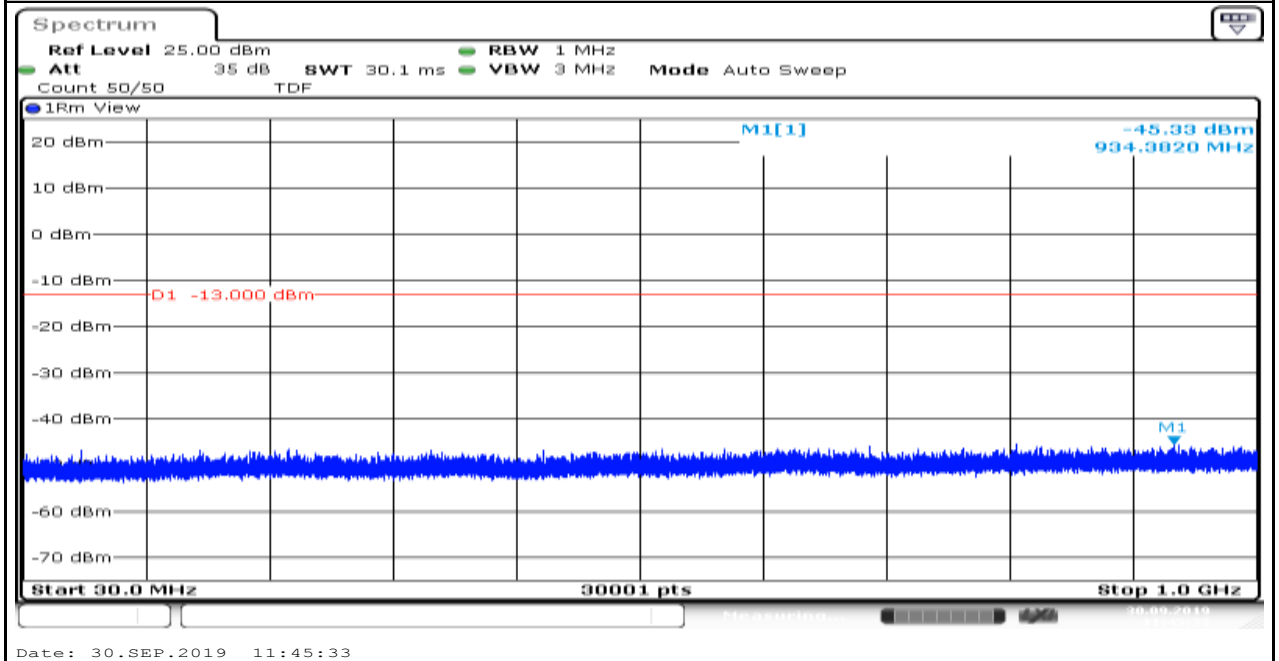
Band66\_1.4MHz\_16QAM\_131979\_6



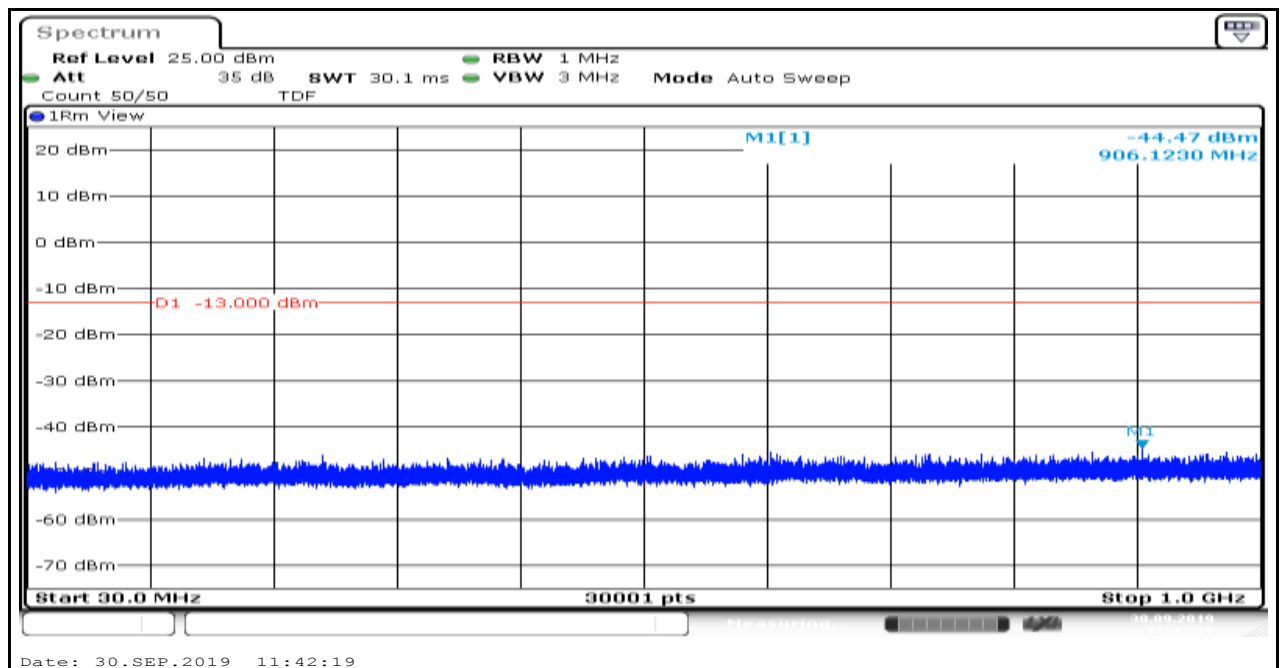
Band66\_1.4MHz\_16QAM\_131979\_6



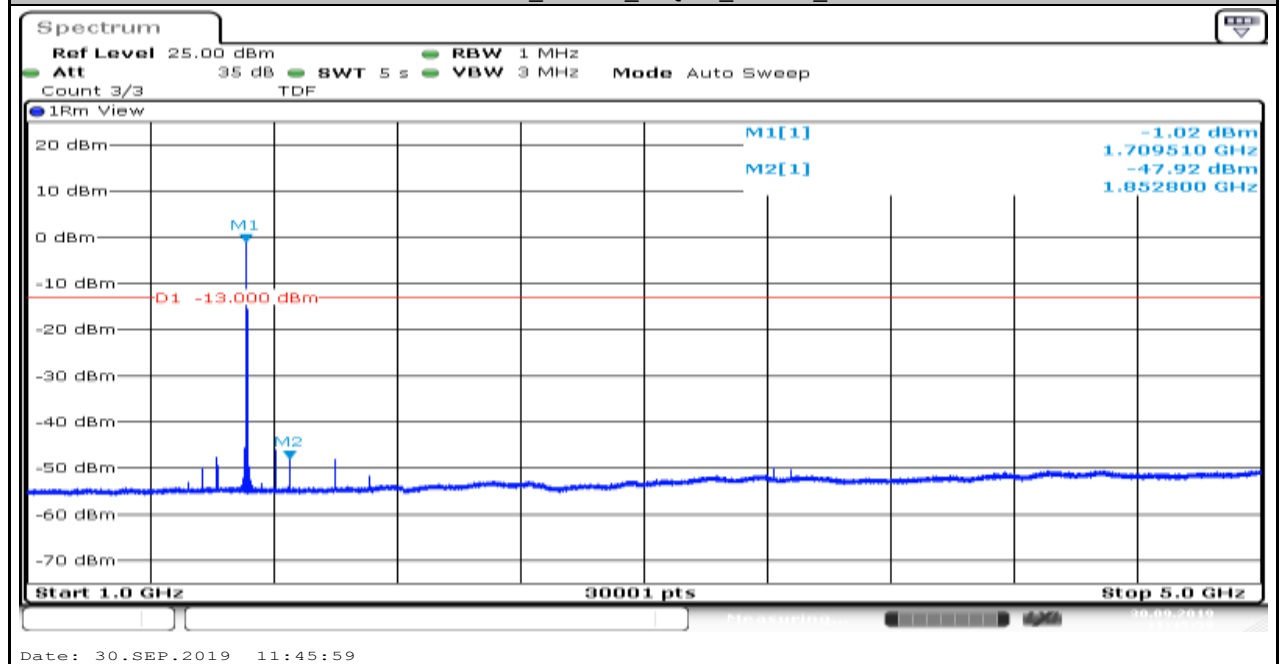
Band66\_1.4MHz\_16QAM\_131979\_6



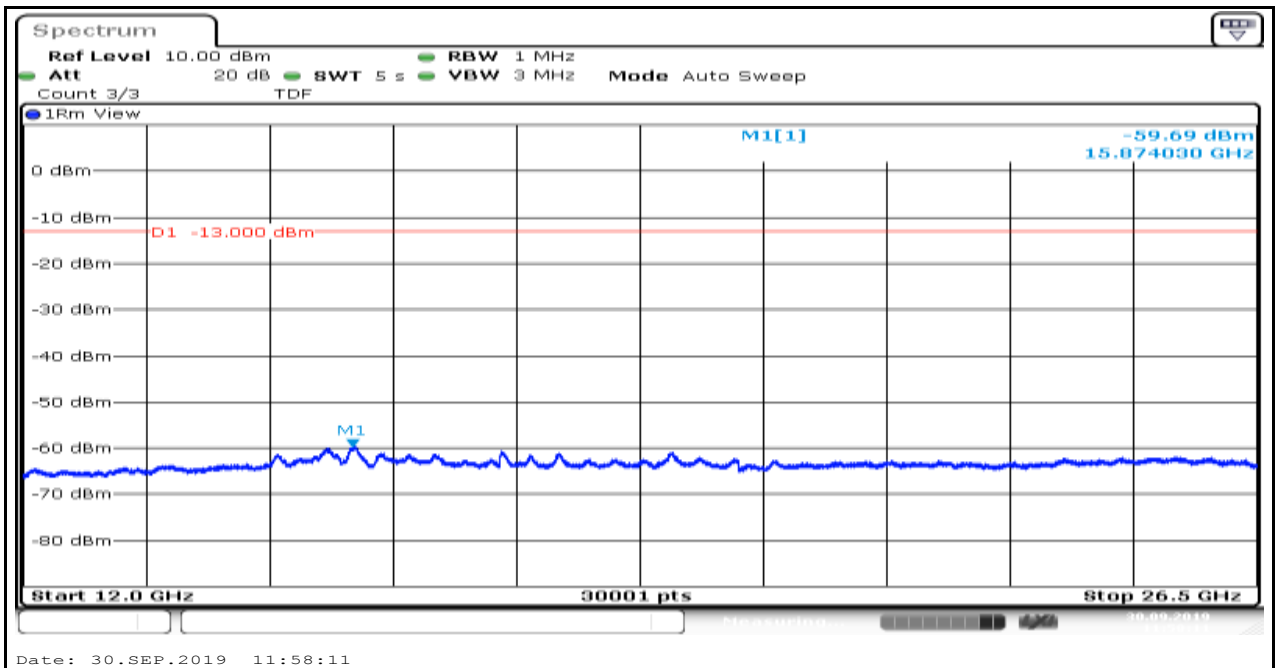
Band66\_1.4MHz\_16QAM\_131979\_1



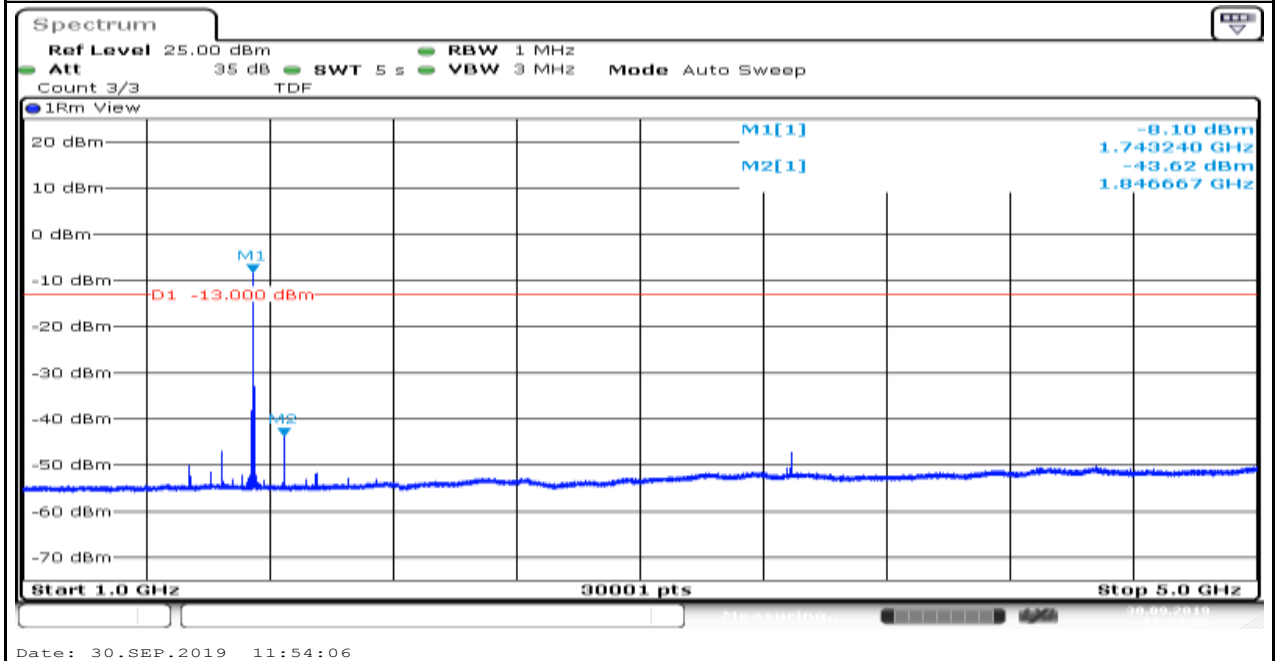
Band66\_1.4MHz\_16QAM\_131979\_6



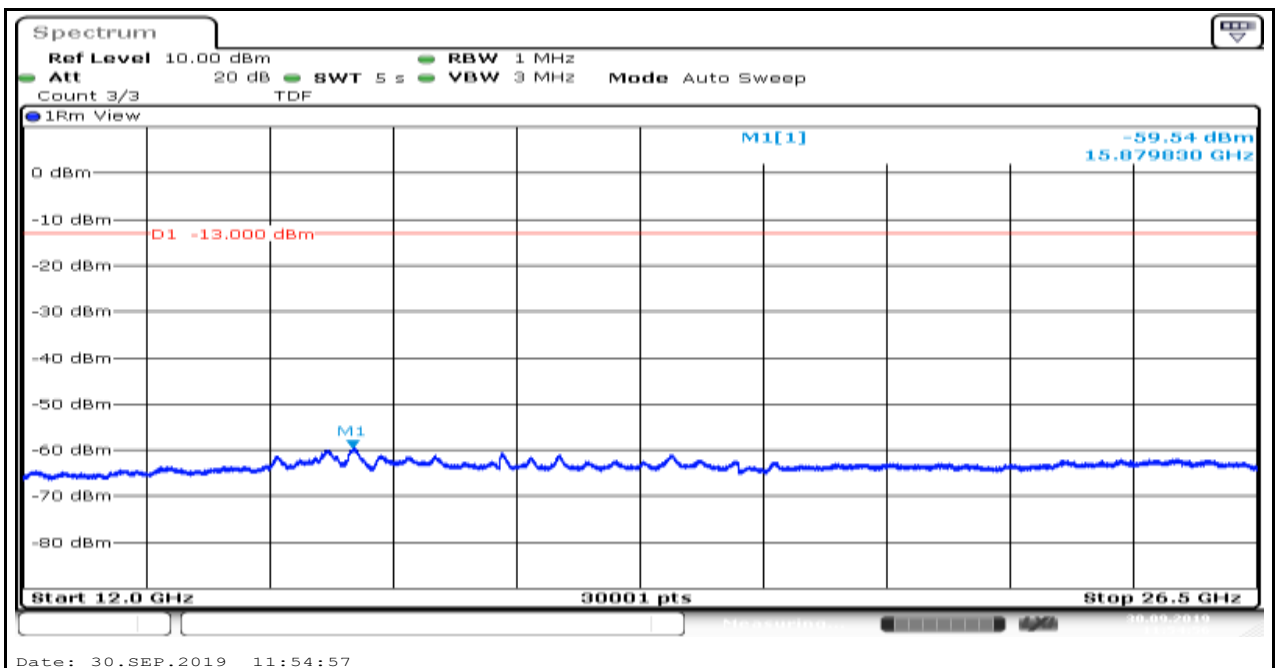
Band66\_1.4MHz\_16QAM\_132322\_6



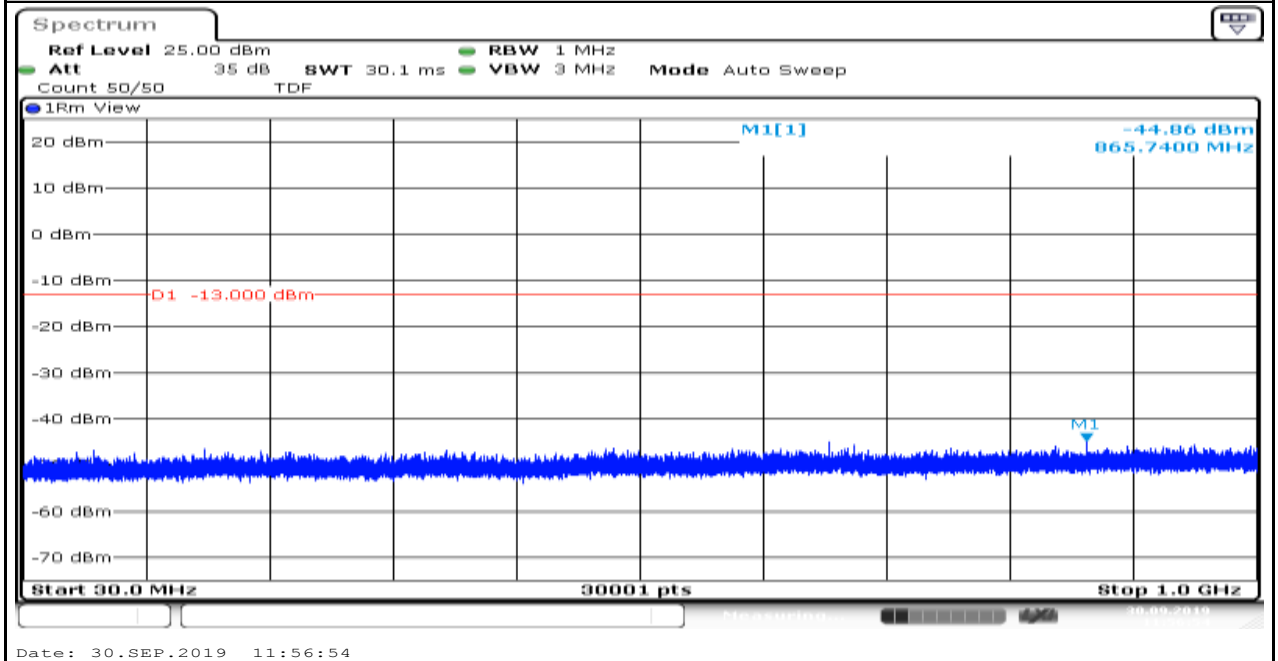
Band66\_1.4MHz\_16QAM\_132322\_1



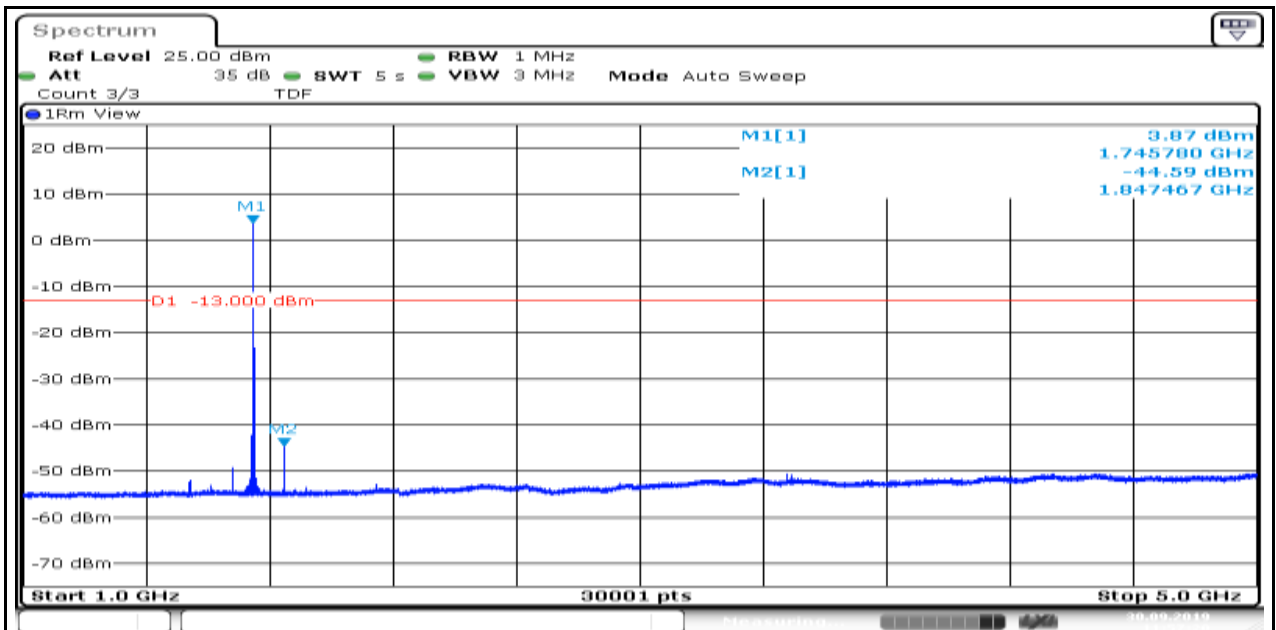
Band66\_1.4MHz\_16QAM\_132322\_1



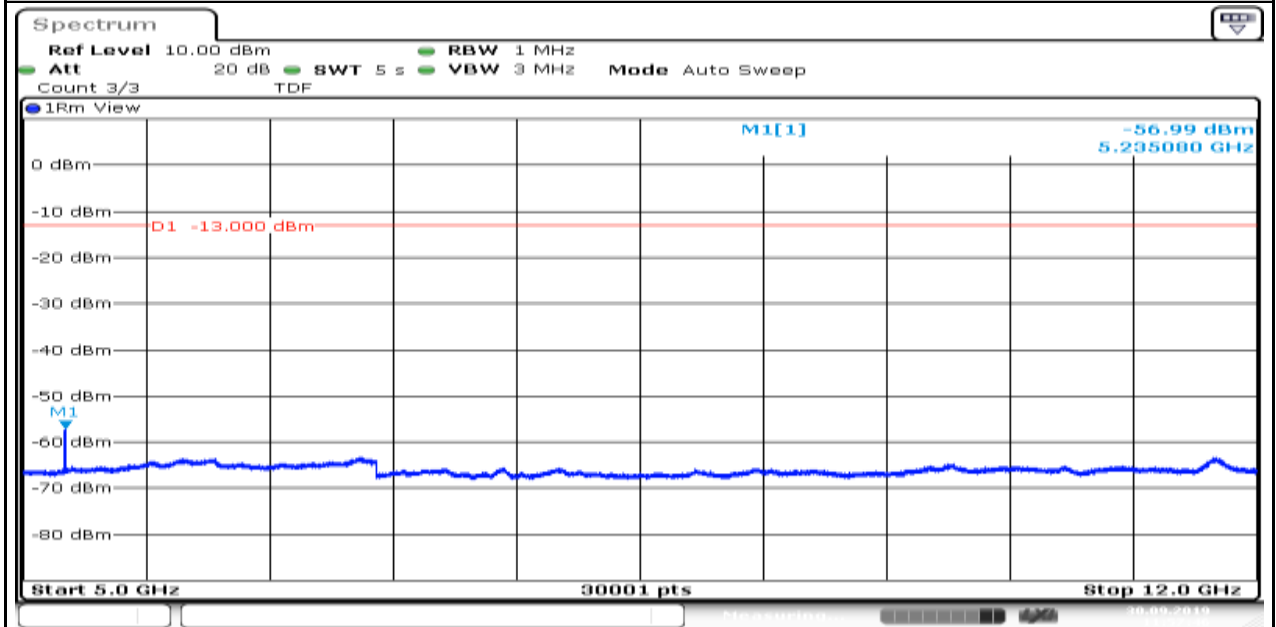
Band66\_1.4MHz\_16QAM\_132322\_6



Band66\_1.4MHz\_16QAM\_132322\_6

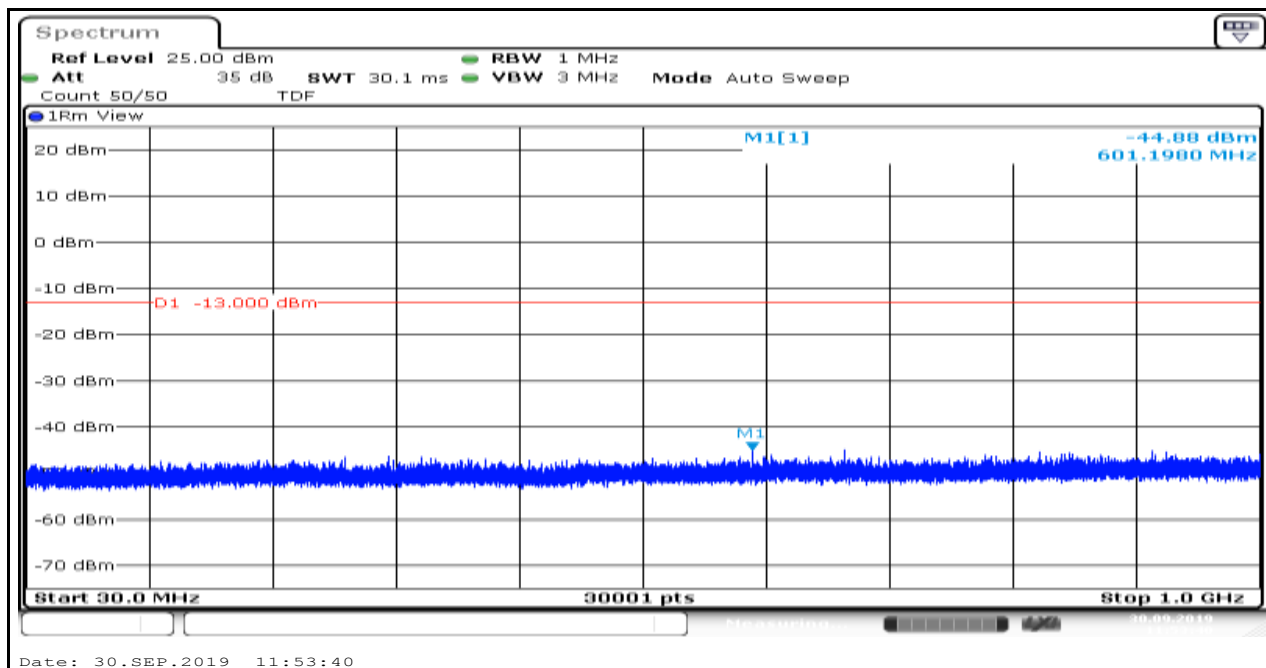


Band66\_1.4MHz\_16QAM\_132322\_6

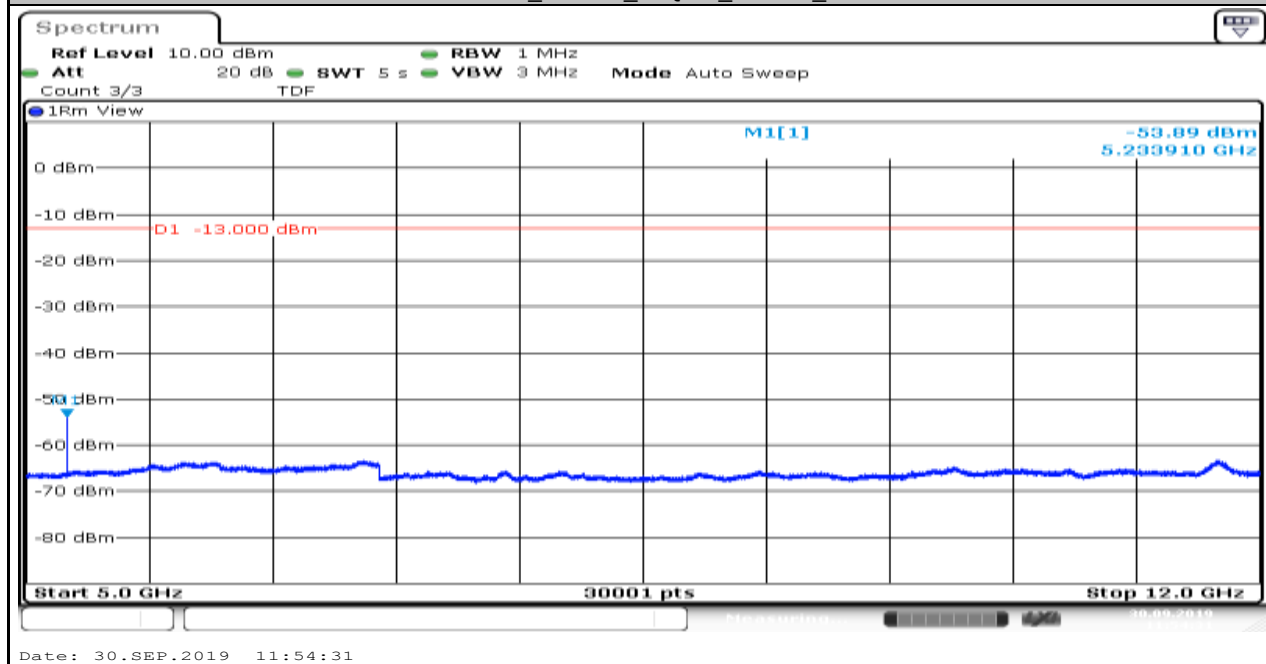


Band66\_1.4MHz\_16QAM\_132322\_1

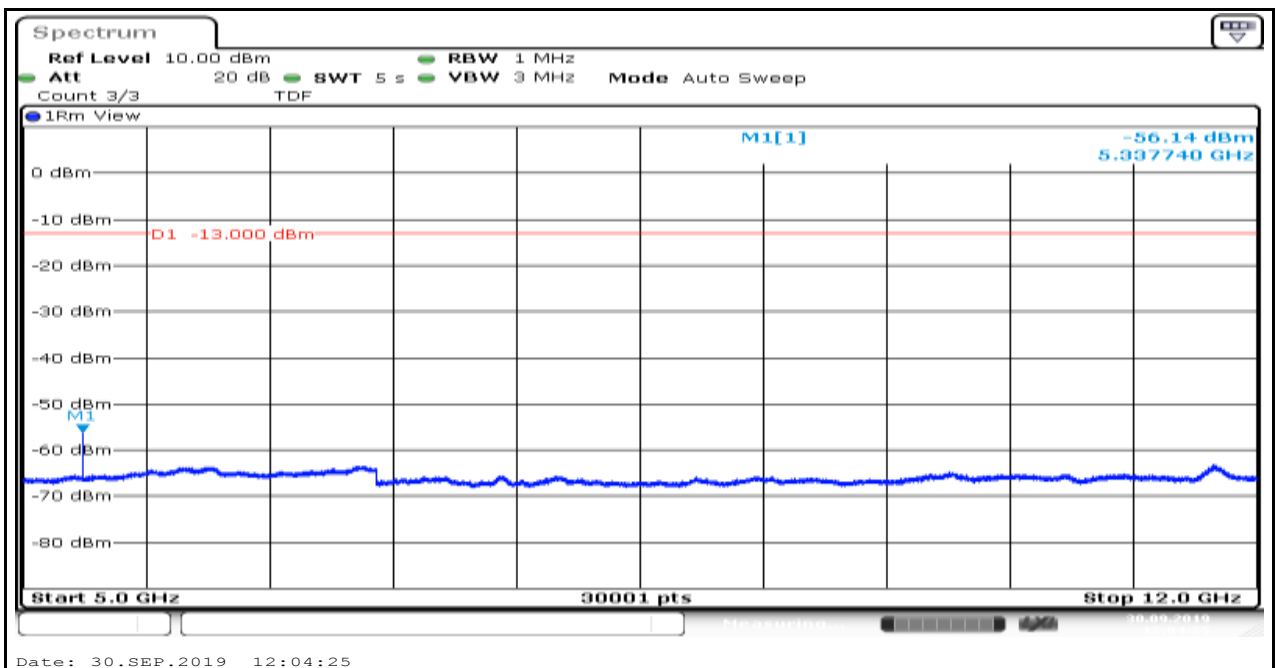
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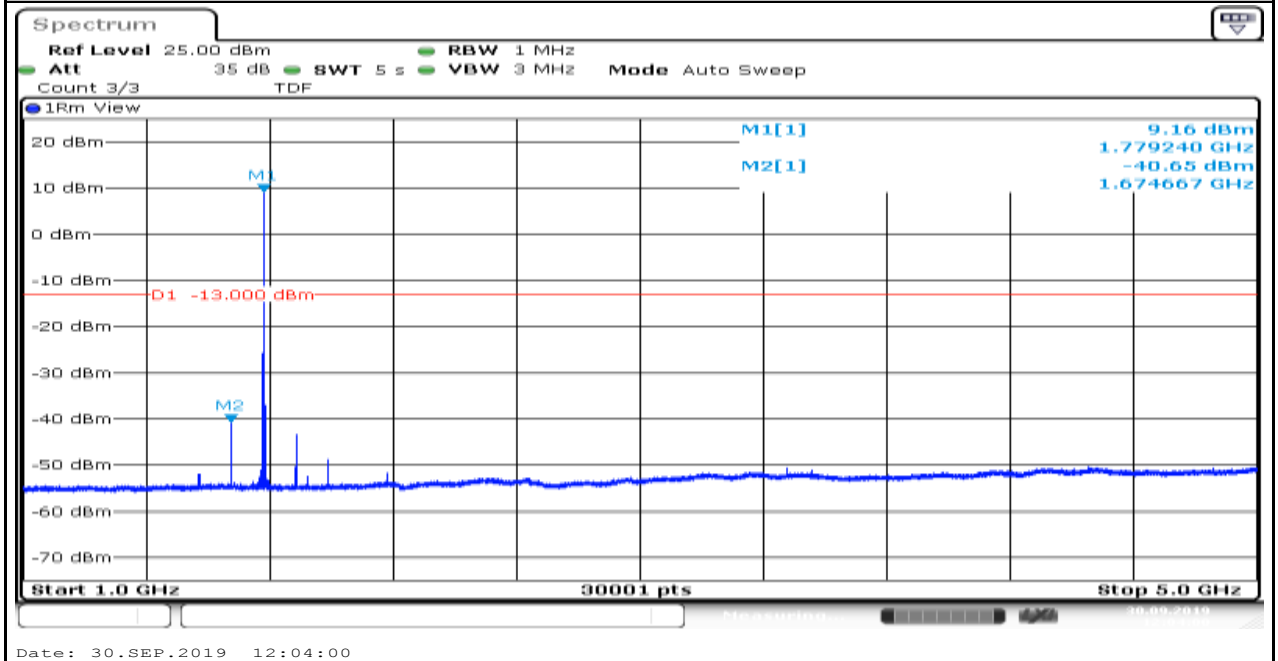
Band66\_1.4MHz\_16QAM\_132322\_1



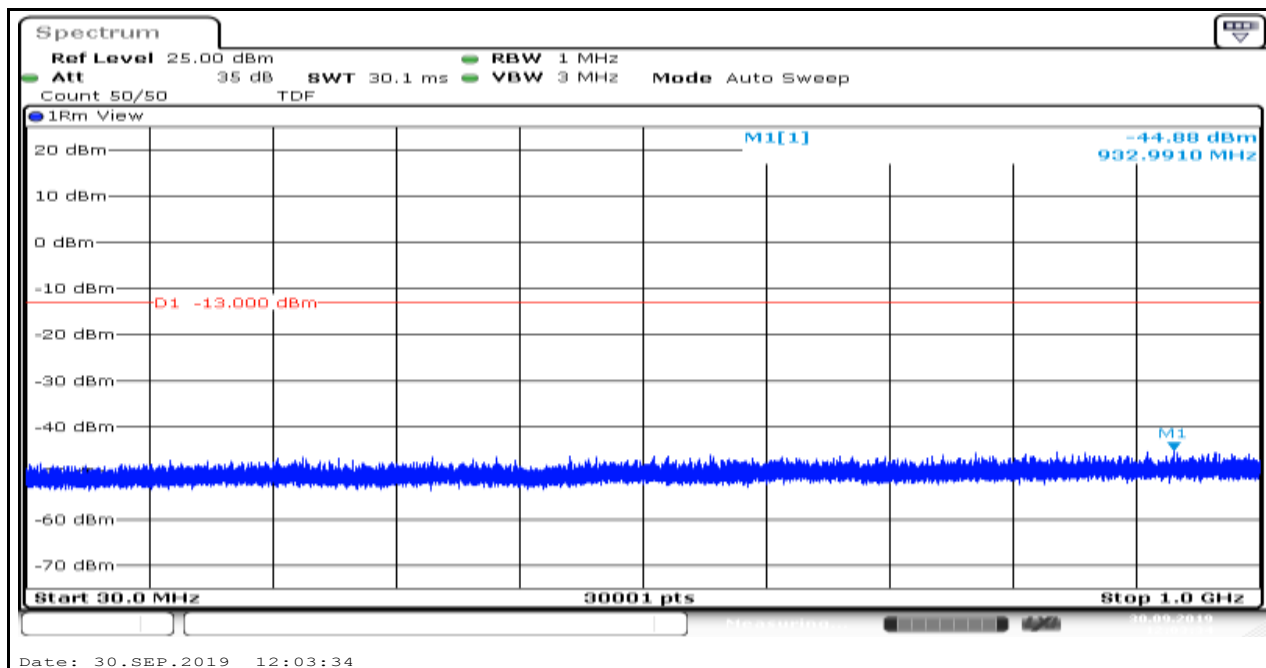
Band66\_1.4MHz\_16QAM\_132665\_6



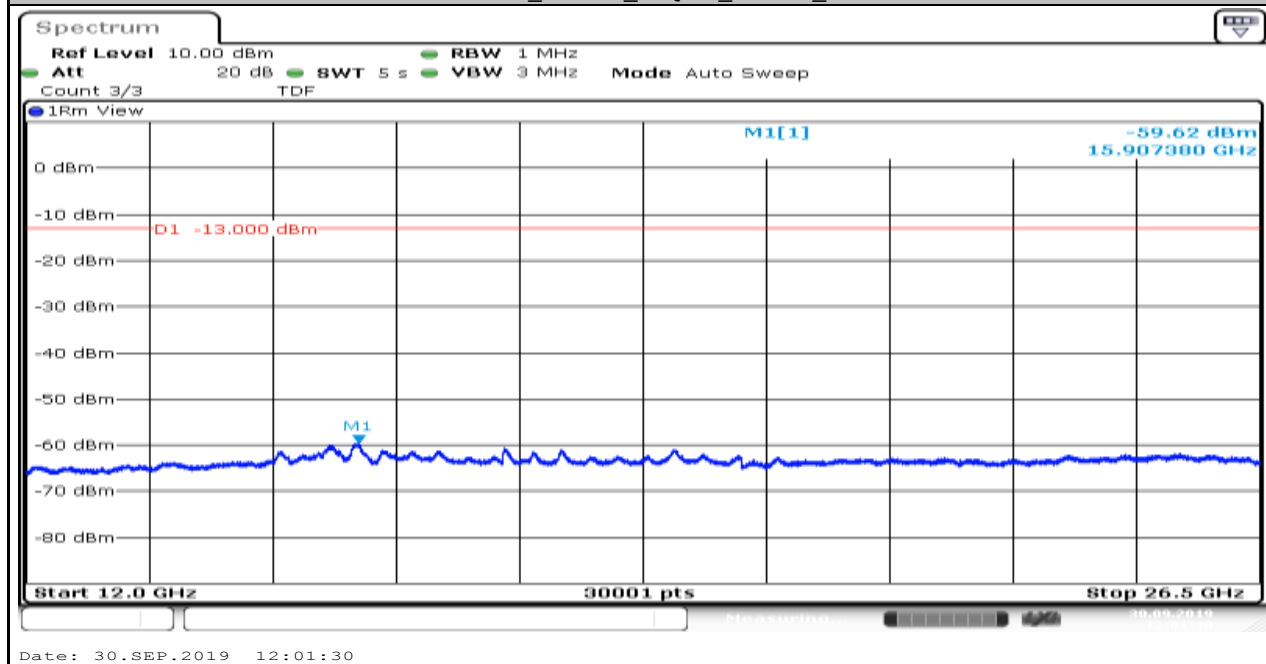
Band66\_1.4MHz\_16QAM\_132665\_6



Band66\_1.4MHz\_16QAM\_132665\_6

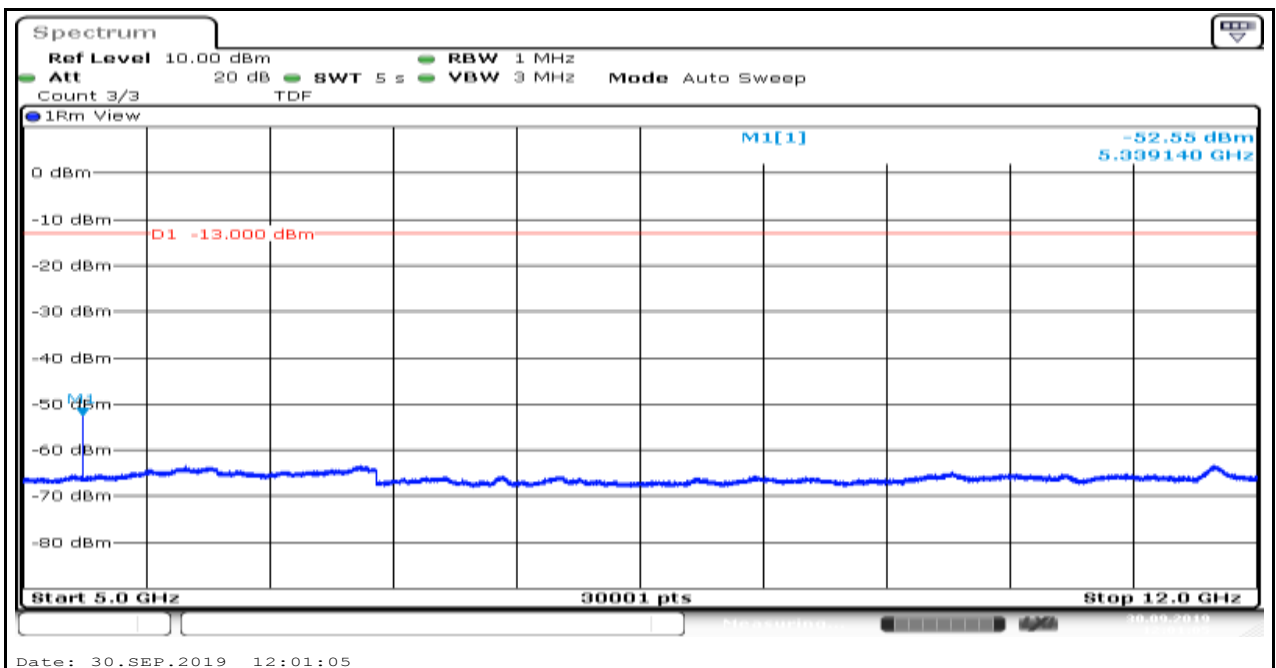


Band66\_1.4MHz\_16QAM\_132665\_1

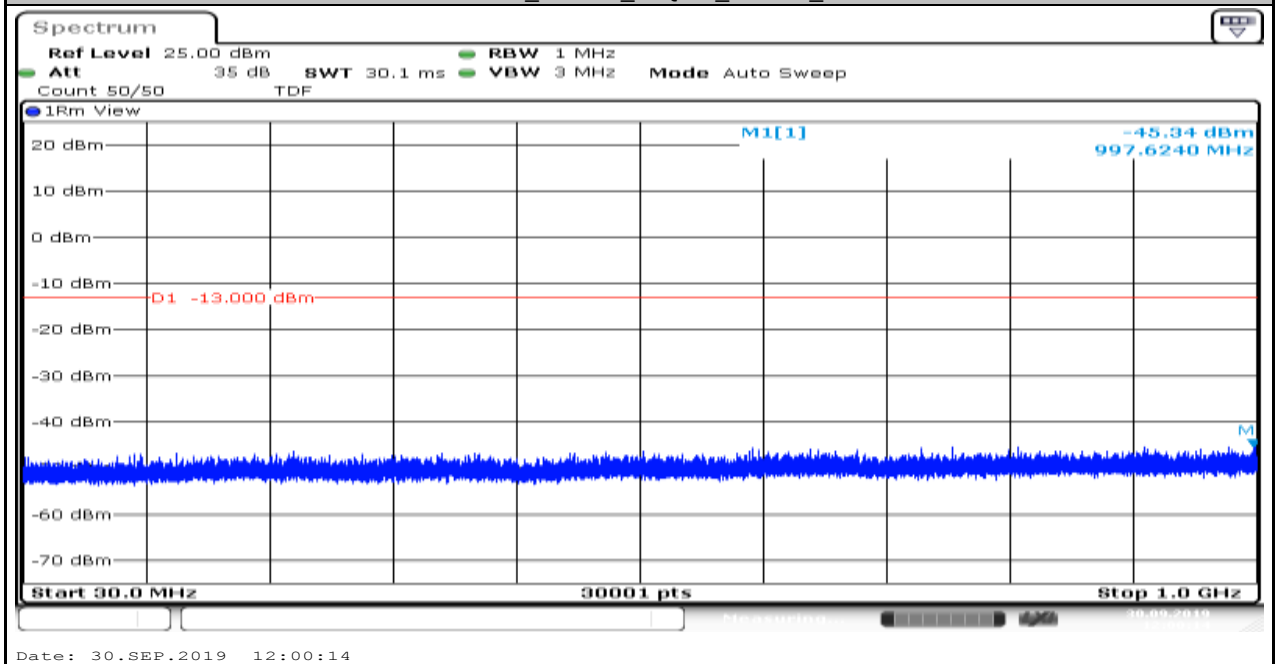


Band66\_1.4MHz\_16QAM\_132665\_1

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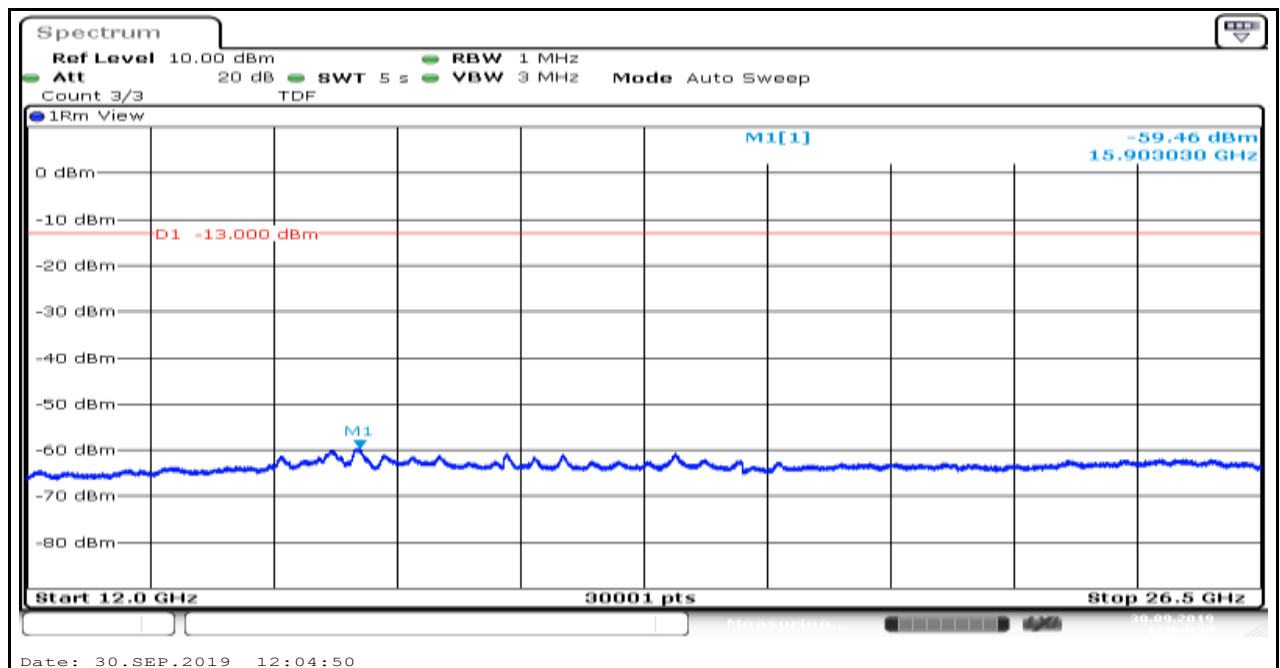


Band66\_1.4MHz\_16QAM\_132665\_1

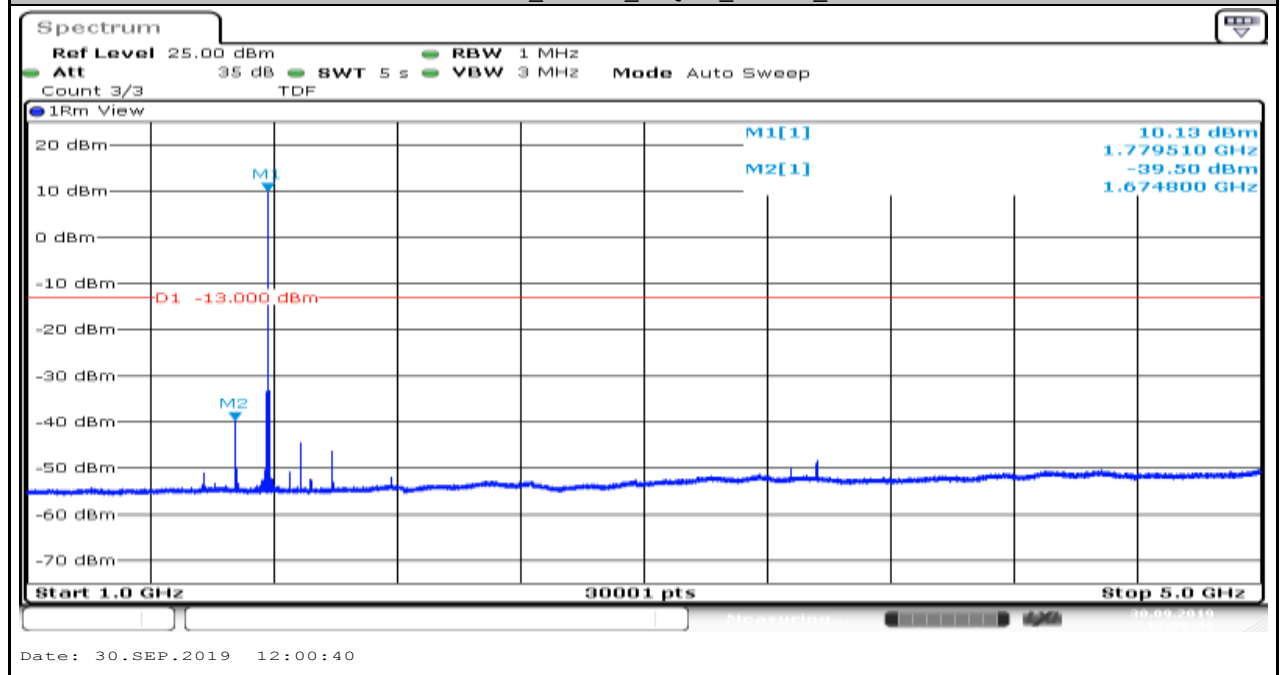


Band66\_1.4MHz\_16QAM\_132665\_6

Produkte  
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Band66\_1.4MHz\_16QAM\_132665\_1



## Appendix I.6: Frequency Stability for M1

### Test Result

| Voltage |           |            |         |         |          |          |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band66  | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | HV            | NT               | -27.91         | -0.015994       | ±2.5        | PASS    |
| Band66  | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | LV            | NT               | -28.57         | -0.016372       | ±2.5        | PASS    |
| Band66  | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | NT               | -26.51         | -0.015192       | ±2.5        | PASS    |
| Band66  | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | HV            | NT               | -20.84         | -0.011943       | ±2.5        | PASS    |
| Band66  | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | LV            | NT               | -18.04         | -0.010338       | ±2.5        | PASS    |
| Band66  | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | NT               | -16.78         | -0.009616       | ±2.5        | PASS    |

| Temperature |           |            |         |         |          |          |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|---------|----------|----------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 50               | -30.21         | -0.017312       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | -20              | -31.43         | -0.018011       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | -10              | -29.04         | -0.016642       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 0                | -28.05         | -0.016074       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 10               | -29.03         | -0.016636       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 20               | -26.34         | -0.015095       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 30               | -29.30         | -0.016791       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | -30              | -26.14         | -0.014980       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 40               | -26.59         | -0.015238       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 50               | -17.25         | -0.009885       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | -20              | -18.64         | -0.010682       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | -10              | -19.83         | -0.011364       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 0                | -18.58         | -0.010648       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 10               | -17.77         | -0.010183       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 20               | -19.08         | -0.010934       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 30               | -19.11         | -0.010951       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 40               | -18.34         | -0.010510       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | -30              | -18.71         | -0.010722       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 85               | -7.88          | -0.004516       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 80               | -9.97          | -0.005713       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 70               | -8.78          | -0.005032       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | 60               | -9.07          | -0.005198       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 1       | 0        | Low      | NV            | -40              | -8.03          | -0.004602       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 85               | -11.33         | -0.006493       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 80               | -8.71          | -0.004991       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 70               | -10.60         | -0.006074       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | 60               | -7.08          | -0.004057       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | 16QAM      | 132322  | 1       | 0        | Low      | NV            | -40              | -9.66          | -0.005536       | ±2.5        | PASS    |

# Appendix J: Test Results of Band 85 for eMTC operation

|                                                                                                 |          |
|-------------------------------------------------------------------------------------------------|----------|
| <b>APPENDIX J: TEST RESULTS OF BAND 85 FOR EMTC OPERATION.....</b>                              | <b>1</b> |
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## Appendix J.1: RF Power Output and Effective (Isotropic) Radiated Power Output Data for M1

### Test Result

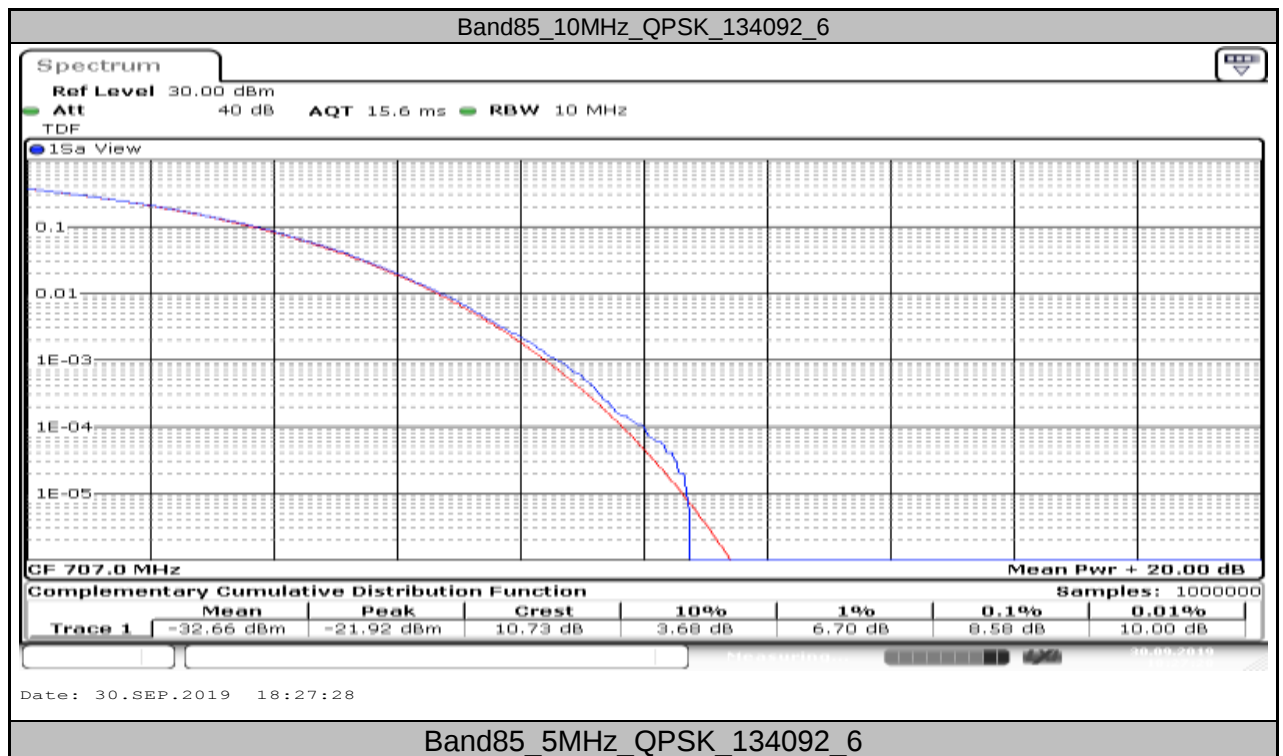
| Band   | Bandwidth | Modulation | Channel | RB Size | RB    | NBIndex | Result (dBm) | ERP   |       | Limit (watts) | Verdict |
|--------|-----------|------------|---------|---------|-------|---------|--------------|-------|-------|---------------|---------|
|        |           |            |         |         | Start |         |              | dBm   | Watts |               |         |
| Band85 | 5MHz      | QPSK       | 134027  | 6       | 0     | Low     | 20.19        | 20.18 | 0.104 | 3             | PASS    |
| Band85 | 5MHz      | QPSK       | 134027  | 1       | 0     | Low     | 21.19        | 21.18 | 0.131 | 3             | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 1       | 0     | Low     | 21.48        | 21.47 | 0.140 | 3             | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 6       | 0     | Low     | 20.43        | 20.42 | 0.110 | 3             | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 1       | 5     | High    | 20.96        | 20.95 | 0.124 | 3             | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 3       | 3     | High    | 20.92        | 20.91 | 0.123 | 3             | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 6       | 0     | Low     | 20.19        | 20.18 | 0.104 | 3             | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 1       | 0     | Low     | 20.76        | 20.75 | 0.119 | 3             | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 1       | 0     | Low     | 20.91        | 20.9  | 0.123 | 3             | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 6       | 0     | Low     | 20.43        | 20.42 | 0.110 | 3             | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 1       | 5     | High    | 20.44        | 20.43 | 0.110 | 3             | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 3       | 3     | High    | 20.74        | 20.73 | 0.118 | 3             | PASS    |
| Band85 | 10MHz     | QPSK       | 134092  | 5       | 0     | Low     | 21.37        | 21.36 | 0.137 | 3             | PASS    |
| Band85 | 10MHz     | QPSK       | 134092  | 1       | 0     | Low     | 21.5         | 21.49 | 0.141 | 3             | PASS    |
| Band85 | 10MHz     | QPSK       | 134092  | 1       | 5     | High    | 21.29        | 21.28 | 0.134 | 3             | PASS    |
| Band85 | 10MHz     | QPSK       | 134092  | 5       | 1     | High    | 21.37        | 21.36 | 0.137 | 3             | PASS    |
| Band85 | 10MHz     | 16QAM      | 134092  | 5       | 0     | Low     | 21.19        | 21.18 | 0.131 | 3             | PASS    |
| Band85 | 10MHz     | 16QAM      | 134092  | 1       | 5     | High    | 20.78        | 20.77 | 0.119 | 3             | PASS    |
| Band85 | 10MHz     | 16QAM      | 134092  | 5       | 1     | High    | 21.18        | 21.17 | 0.131 | 3             | PASS    |
| Band85 | 10MHz     | 16QAM      | 134092  | 1       | 0     | Low     | 20.99        | 20.98 | 0.125 | 3             | PASS    |

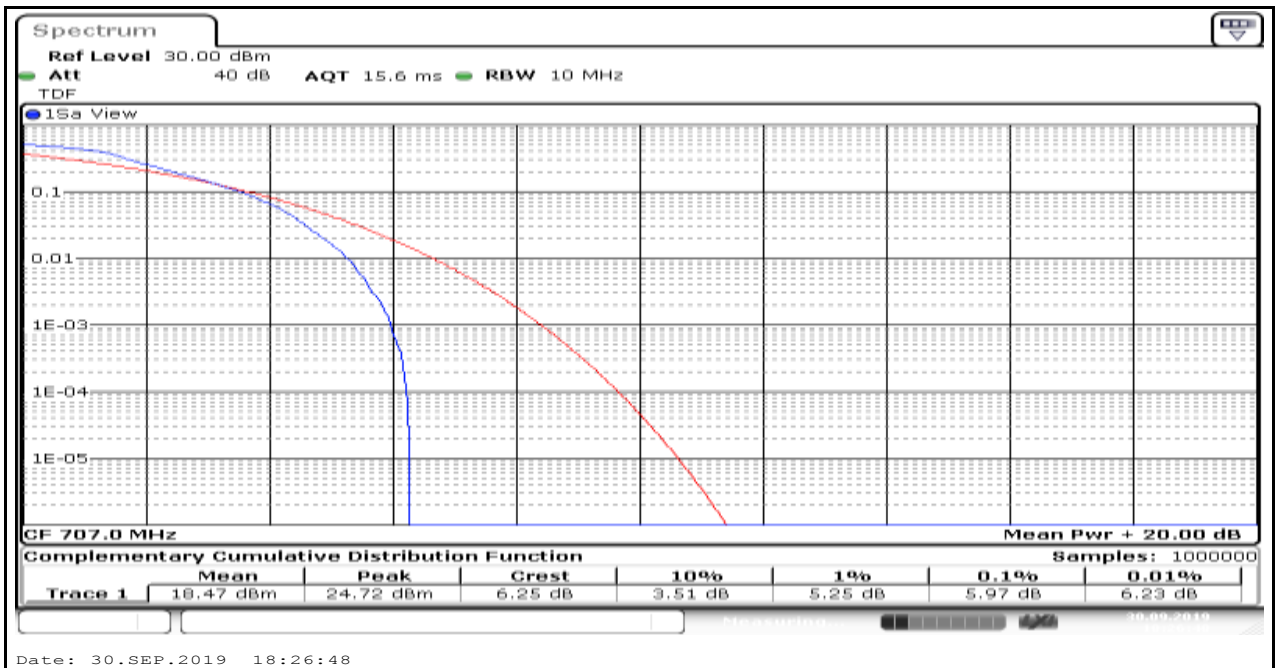
## Appendix J.2: Peak-to-Average Ratio (CCDF) for M1

### Test Result

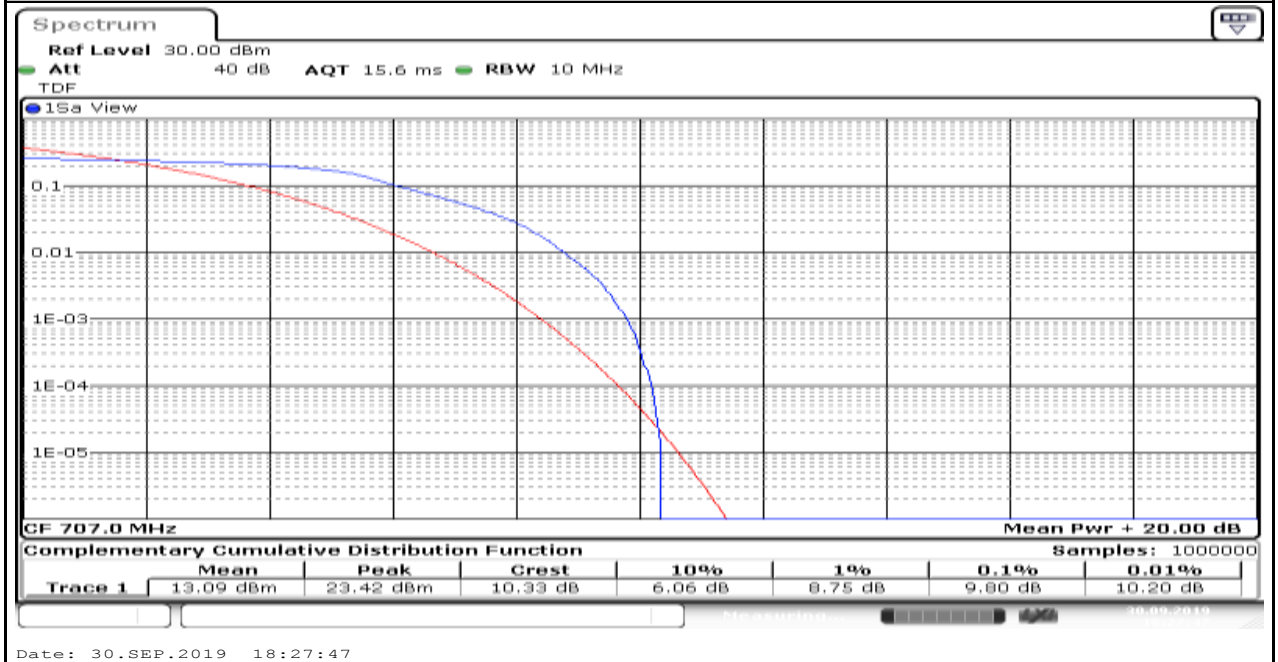
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NBIndex | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|---------|----------|---------|------------|-----------|---------|
| Band85 | 10MHz     | QPSK       | 134092  | 6       | 0        | Low     | 8.58       | <=13      | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 6       | 0        | Low     | 5.97       | <=13      | PASS    |
| Band85 | 10MHz     | 16QAM      | 134092  | 6       | 0        | Low     | 9.80       | <=13      | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 6       | 0        | Low     | 8.87       | <=13      | PASS    |

### Test Graphs

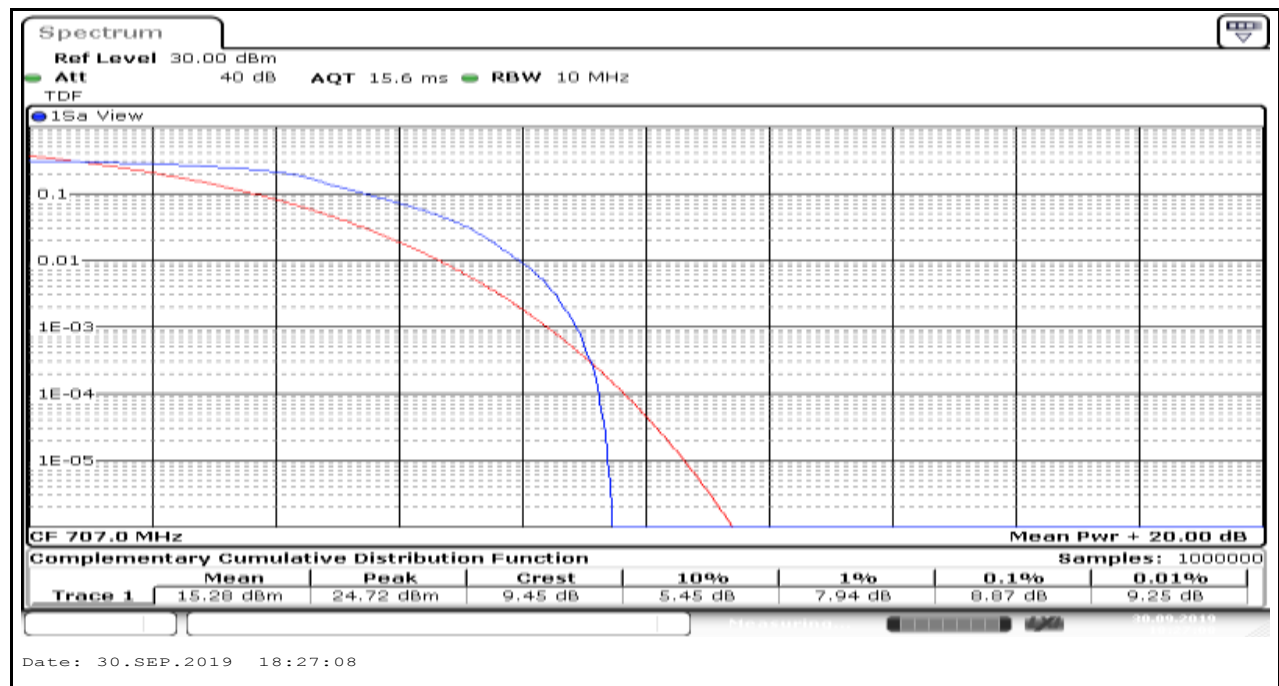




## Band85\_10MHz\_16QAM\_134092\_6



## Band85\_5MHz\_16QAM\_134092\_6

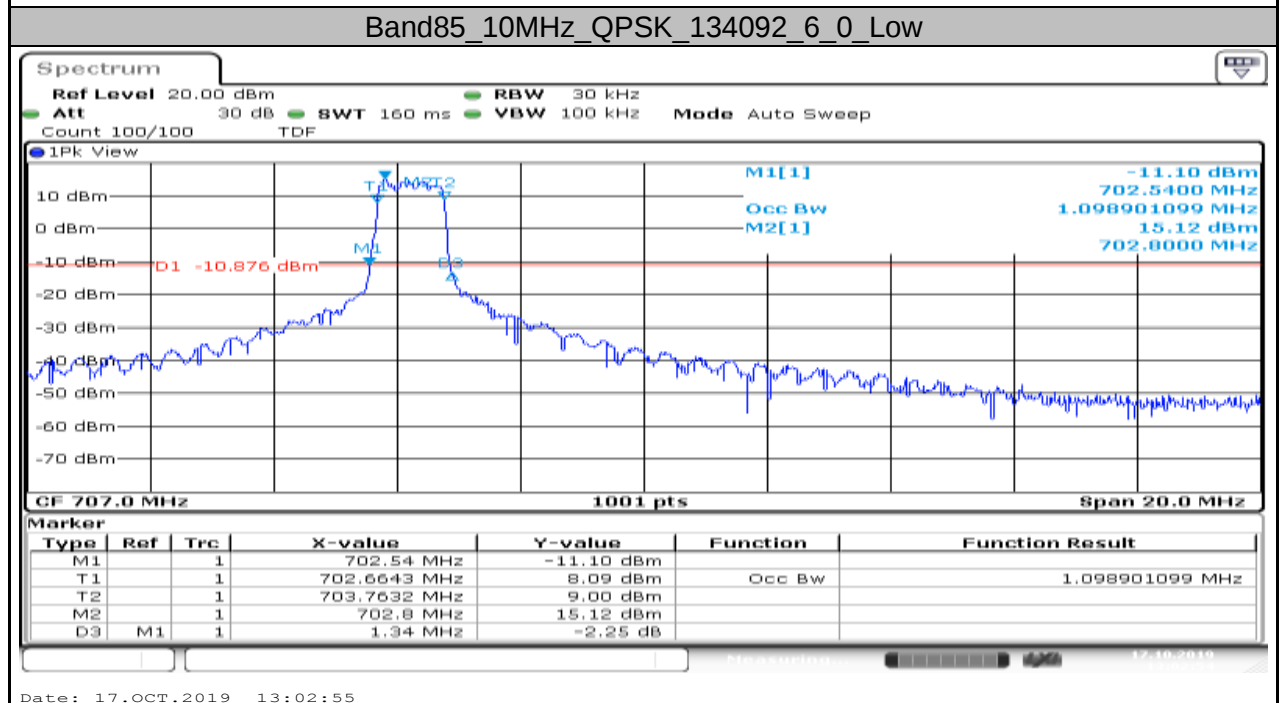
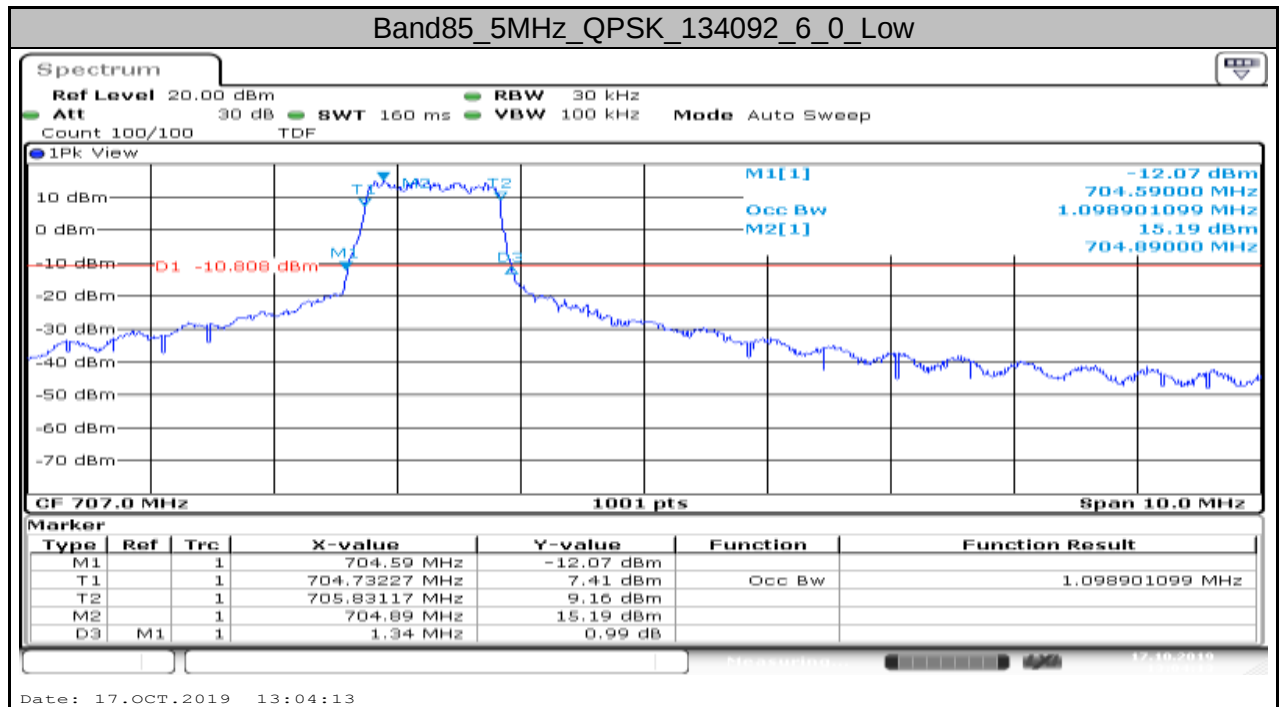


## Appendix J.3: 26dB Bandwidth and Occupied Bandwidth for M1

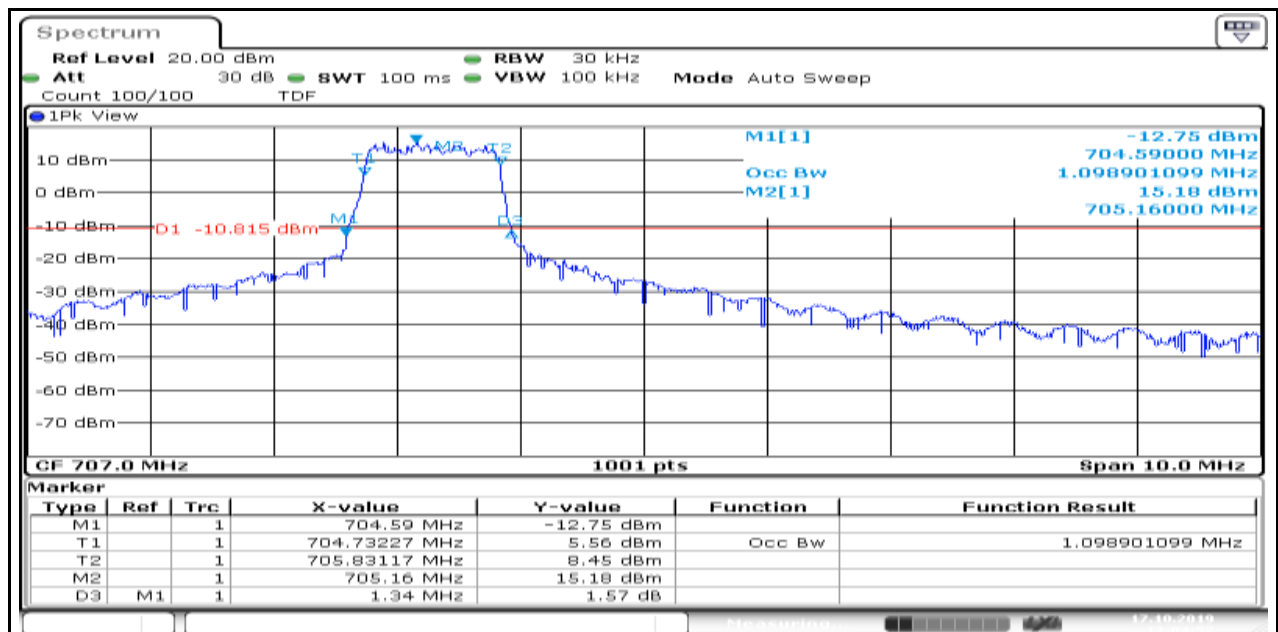
### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|--------------------------|----------------------|---------|
| Band85 | 5MHz      | QPSK       | 134092  | 6       | 0        | Low      | 1.099                    | 1.340                | PASS    |
| Band85 | 10MHz     | QPSK       | 134092  | 6       | 0        | Low      | 1.099                    | 1.340                | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 6       | 0        | Low      | 1.099                    | 1.340                | PASS    |
| Band85 | 10MHz     | 16QAM      | 134092  | 6       | 0        | Low      | 1.099                    | 1.340                | PASS    |

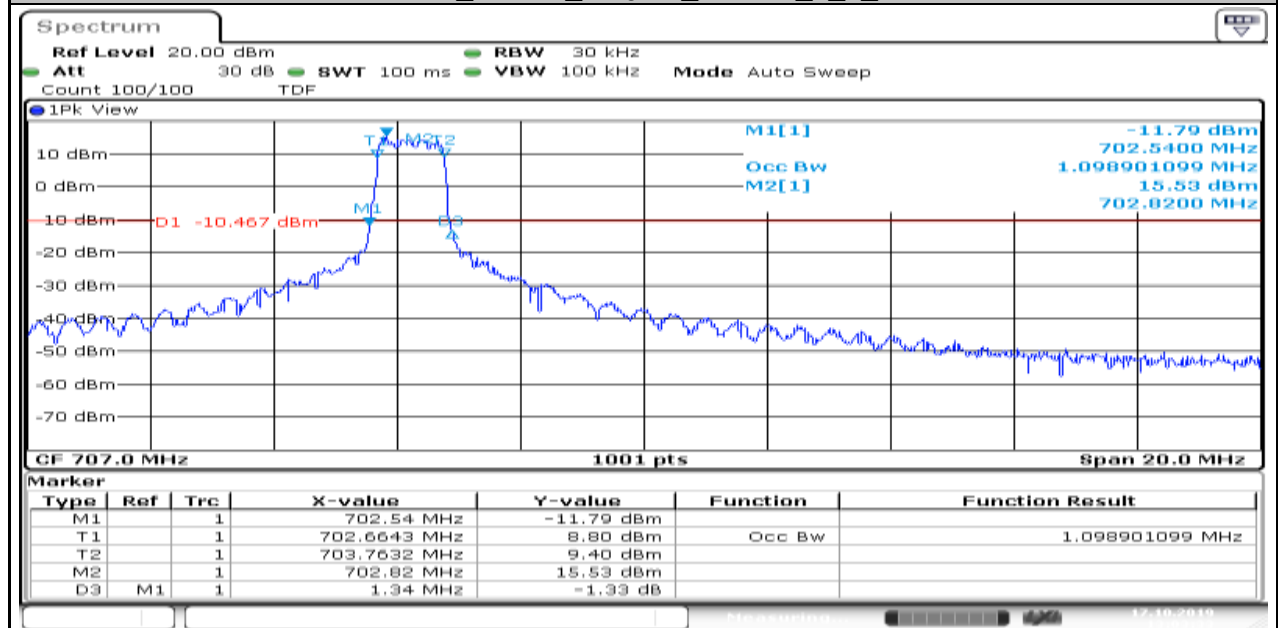
## Test Graphs



**Band85\_5MHz\_16QAM\_134092\_6\_0\_Low**



## Band85\_10MHz\_16QAM\_134092\_6\_0\_Low

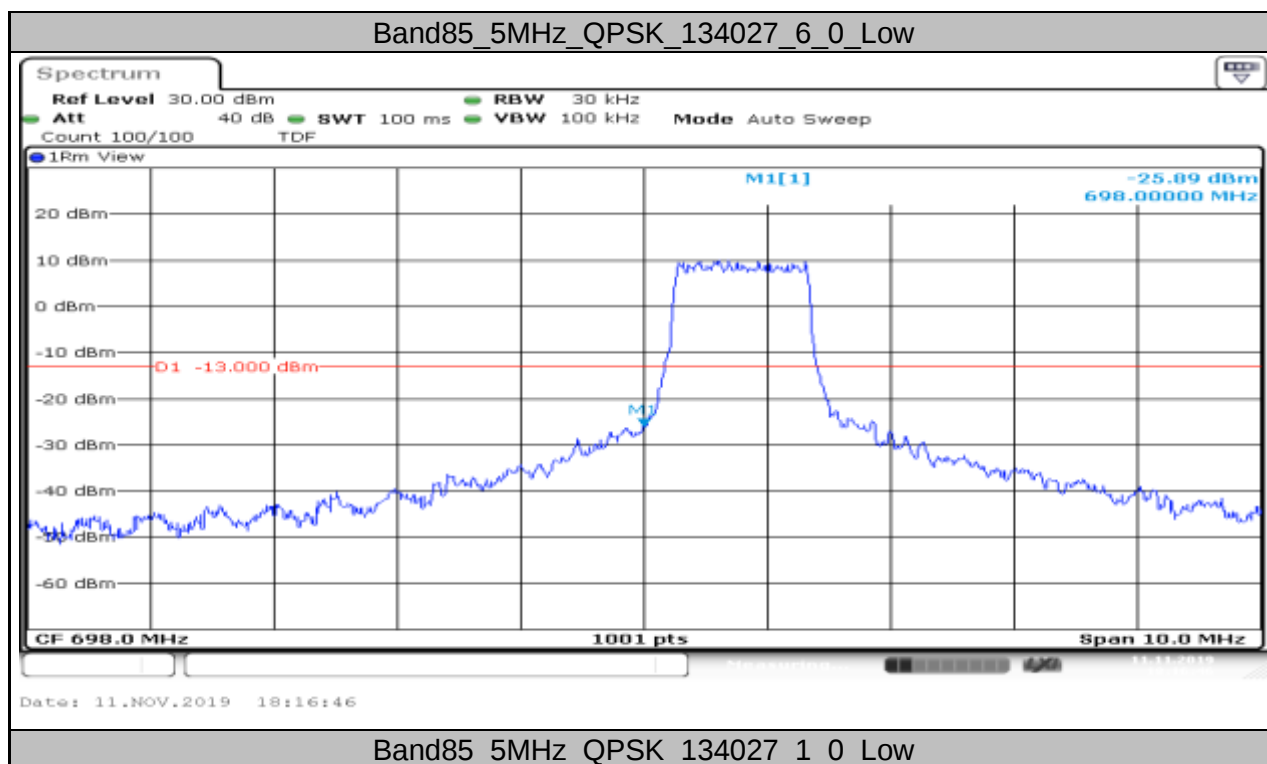


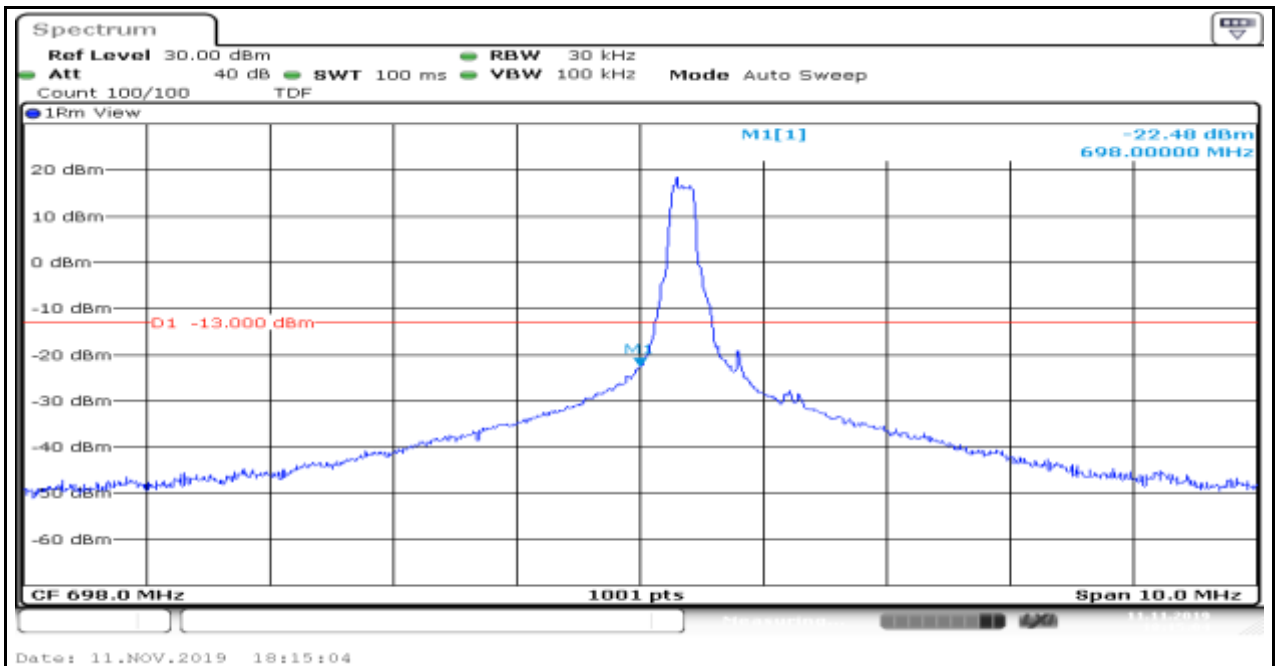
## Appendix J.4: Band Edge for M1

### Test Result

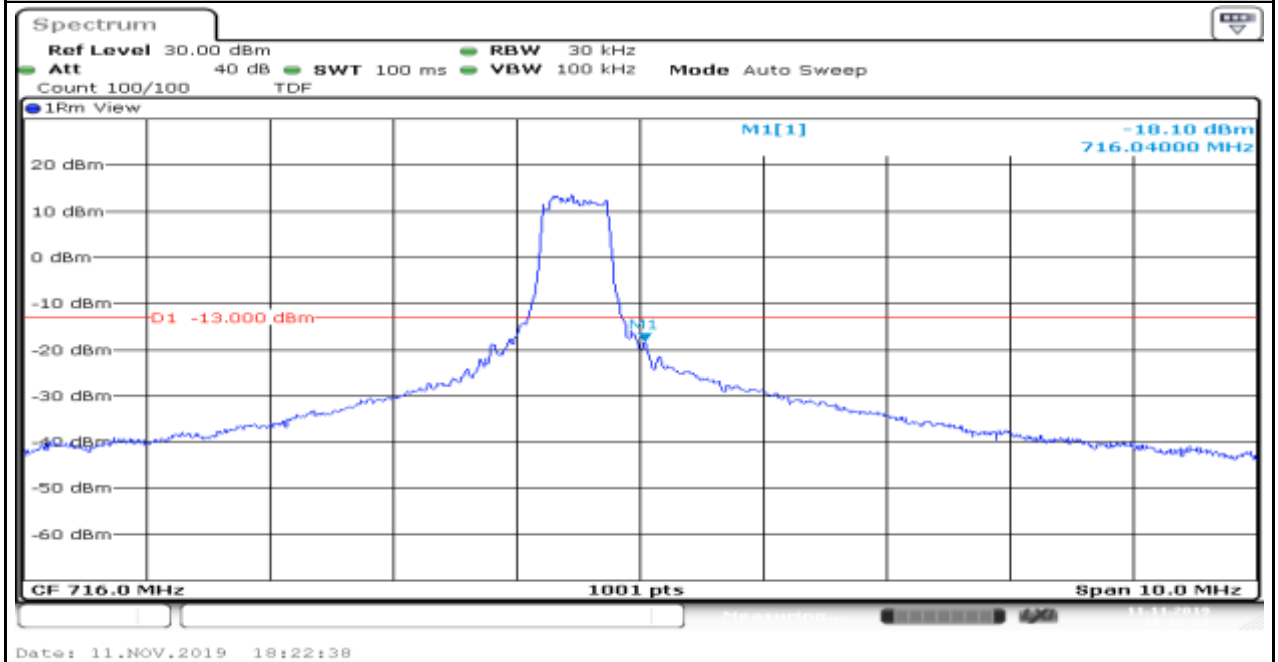
| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Result (dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|--------------|---------|
| Band85 | 5MHz      | QPSK       | 134027  | 6       | 0        | Low      | -25.89       | PASS    |
| Band85 | 5MHz      | QPSK       | 134027  | 1       | 0        | Low      | -22.48       | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 3       | 3        | High     | -18.10       | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 1       | 5        | High     | -21.95       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 6       | 0        | Low      | -24.94       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 1       | 0        | Low      | -26.02       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 3       | 3        | High     | -20.40       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 1       | 5        | High     | -26.88       | PASS    |

### Test Graphs

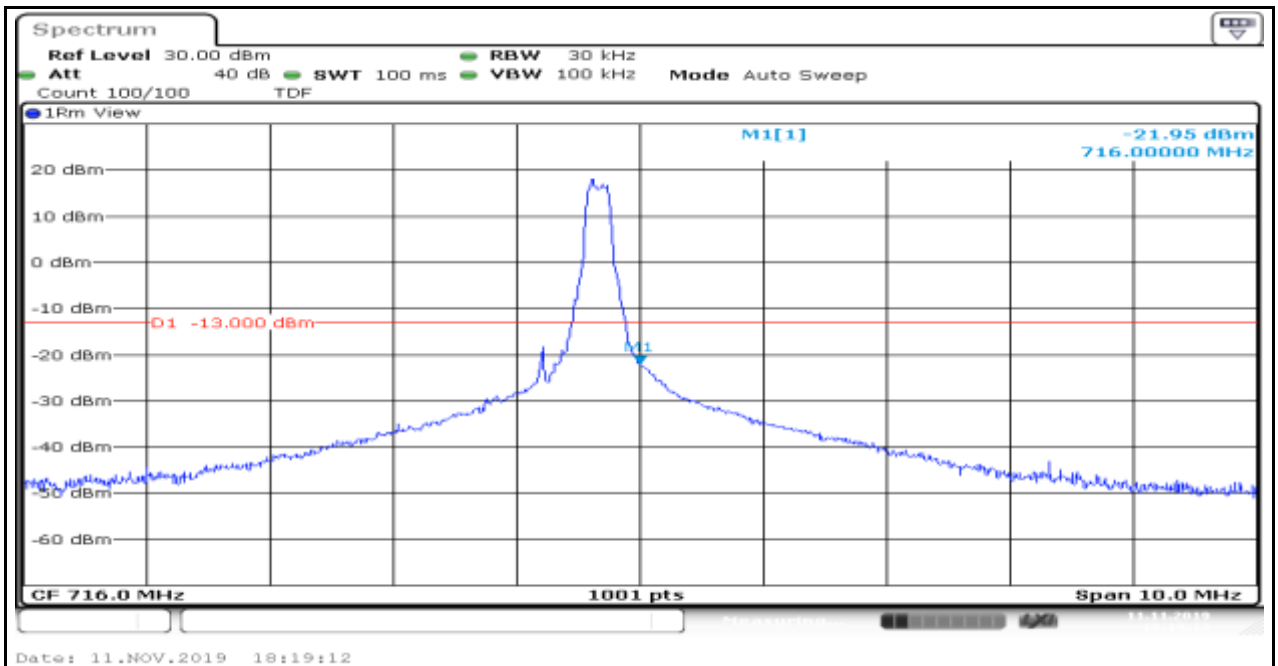




Band85\_5MHz\_QPSK\_134157\_3\_3\_High



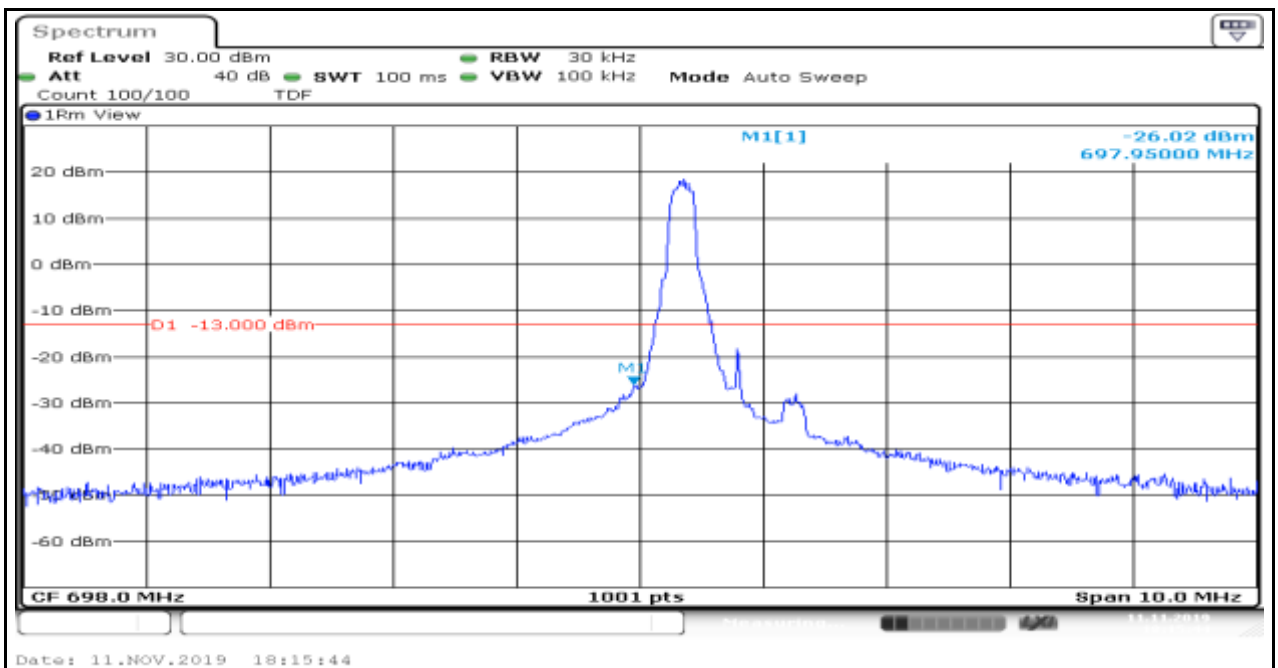
Band85\_5MHz\_QPSK\_134157\_1\_5\_High



Band85\_5MHz\_16QAM\_134027\_6\_0\_Low



Band85\_5MHz\_16QAM\_134027\_1\_0\_Low

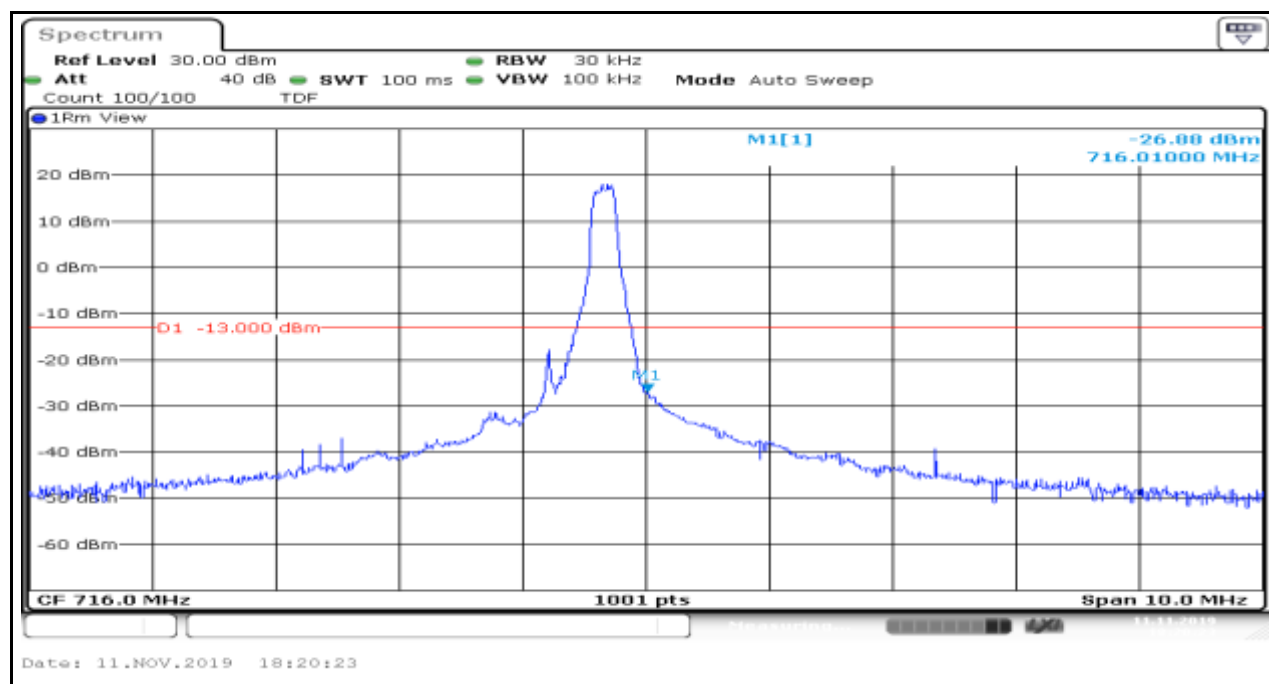


Band85\_5MHz\_16QAM\_134157\_3\_3\_High



Band85\_5MHz\_16QAM\_134157\_1\_5\_High

Produkte  
Products



## Appendix J.5: Conducted Spurious Emission for M1

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Size | RB Start | NB Index | Start Freq | Stop Freq | Result (dBm) | Verdict |
|--------|-----------|------------|---------|---------|----------|----------|------------|-----------|--------------|---------|
| Band85 | 5MHz      | QPSK       | 134027  | 6       | 0        | Low      | 30         | 1000      | -45.36       | PASS    |
| Band85 | 5MHz      | QPSK       | 134027  | 1       | 0        | Low      | 30         | 1000      | -44.91       | PASS    |
| Band85 | 5MHz      | QPSK       | 134027  | 6       | 0        | Low      | 12000      | 26500     | -59.65       | PASS    |
| Band85 | 5MHz      | QPSK       | 134027  | 6       | 0        | Low      | 5000       | 12000     | -63.37       | PASS    |
| Band85 | 5MHz      | QPSK       | 134027  | 6       | 0        | Low      | 1000       | 5000      | -50.29       | PASS    |
| Band85 | 5MHz      | QPSK       | 134027  | 1       | 0        | Low      | 12000      | 26500     | -59.47       | PASS    |
| Band85 | 5MHz      | QPSK       | 134027  | 1       | 0        | Low      | 1000       | 5000      | -50.43       | PASS    |
| Band85 | 5MHz      | QPSK       | 134027  | 1       | 0        | Low      | 5000       | 12000     | -63.34       | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 6       | 0        | Low      | 12000      | 26500     | -59.66       | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 1       | 0        | Low      | 1000       | 5000      | -49.5        | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 1       | 0        | Low      | 5000       | 12000     | -63.32       | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 1       | 0        | Low      | 12000      | 26500     | -59.53       | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 6       | 0        | Low      | 1000       | 5000      | -50.45       | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 1       | 0        | Low      | 30         | 1000      | -45.02       | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 6       | 0        | Low      | 5000       | 12000     | -63.24       | PASS    |
| Band85 | 5MHz      | QPSK       | 134092  | 6       | 0        | Low      | 30         | 1000      | -43.22       | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 1       | 5        | High     | 12000      | 26500     | -59.5        | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 3       | 3        | High     | 12000      | 26500     | -59.45       | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 3       | 3        | High     | 5000       | 12000     | -63.17       | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 3       | 3        | High     | 30         | 1000      | -44.52       | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 1       | 5        | High     | 1000       | 5000      | -50.01       | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 1       | 5        | High     | 5000       | 12000     | -63.2        | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 1       | 5        | High     | 30         | 1000      | -42.93       | PASS    |
| Band85 | 5MHz      | QPSK       | 134157  | 3       | 3        | High     | 1000       | 5000      | -50.23       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 1       | 0        | Low      | 1000       | 5000      | -47.99       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 1       | 0        | Low      | 5000       | 12000     | -63.1        | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 1       | 0        | Low      | 12000      | 26500     | -59.5        | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 6       | 0        | Low      | 12000      | 26500     | -59.73       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 6       | 0        | Low      | 5000       | 12000     | -63.34       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 6       | 0        | Low      | 30         | 1000      | -42.81       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 1       | 0        | Low      | 30         | 1000      | -44.78       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134027  | 6       | 0        | Low      | 1000       | 5000      | -50.37       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 6       | 0        | Low      | 12000      | 26500     | -59.47       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 1       | 0        | Low      | 1000       | 5000      | -50.38       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 1       | 0        | Low      | 12000      | 26500     | -59.58       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 6       | 0        | Low      | 30         | 1000      | -44.02       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 6       | 0        | Low      | 1000       | 5000      | -50.45       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 6       | 0        | Low      | 5000       | 12000     | -63.27       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 1       | 0        | Low      | 30         | 1000      | -43.1        | PASS    |
| Band85 | 5MHz      | 16QAM      | 134092  | 1       | 0        | Low      | 5000       | 12000     | -63.21       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 3       | 3        | High     | 5000       | 12000     | -63.26       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 3       | 3        | High     | 1000       | 5000      | -50.47       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 3       | 3        | High     | 30         | 1000      | -41.52       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 1       | 5        | High     | 12000      | 26500     | -59.5        | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 1       | 5        | High     | 5000       | 12000     | -63.28       | PASS    |
| Band85 | 5MHz      | 16QAM      | 134157  | 1       | 5        | High     | 30         | 1000      | -42.75       | PASS    |