

# TEST REPORT

**Application No.:** KSCR2606001325AT  
**FCC ID:** XMR2026KGM100XB  
**Applicant:** Quectel Wireless Solutions Co., Ltd.  
**Address of Applicant:** No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China  
**Manufacturer:** Quectel Wireless Solutions Co., Ltd.  
**Address of Manufacturer:** No. 8 Waipojing Road, Sijing Town, Songjiang District, Shanghai 201601, China  
**Equipment Under Test (EUT):**  
**EUT Name:** Wireless Module for Amazon Sidewalk  
**Model No.:** KGM100XB  
**Trade Mark:** QUECTEL  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.247  
**Date of Receipt:** 2026-06-05  
**Date of Test:** 2026-07-09 to 2026-07-31  
**Date of Issue:** 2026-08-04

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

| Revision Record |             |            |        |
|-----------------|-------------|------------|--------|
| Version         | Description | Date       | Remark |
| 00              | Original    | 2026-08-04 | /      |
|                 |             |            |        |
|                 |             |            |        |

|                          |  |                                     |  |
|--------------------------|--|-------------------------------------|--|
| Authorized for issue by: |  |                                     |  |
| Prepared By              |  | <i>Tommie Tang</i>                  |  |
|                          |  | <u>Tommie_Tang/Project Engineer</u> |  |
| Approved By              |  | <i>Terry Hou</i>                    |  |
|                          |  | <u>Terry Hou /Reviewer</u>          |  |

## 2 Test Summary

| Radio Spectrum Technical Requirement                                                     |                                  |        |                                                 |        |
|------------------------------------------------------------------------------------------|----------------------------------|--------|-------------------------------------------------|--------|
| Item                                                                                     | Standard                         | Method | Requirement                                     | Result |
| Antenna Requirement                                                                      | 47 CFR Part 15, Subpart C 15.247 | N/A    | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass   |
| Other requirements<br>Frequency Hopping<br>Spread Spectrum<br>System Hopping<br>Sequence |                                  | N/A    | 47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)  | Pass   |

| Radio Spectrum Matter Part                          |                                  |                                        |                                           |        |
|-----------------------------------------------------|----------------------------------|----------------------------------------|-------------------------------------------|--------|
| Item                                                | Standard                         | Method                                 | Requirement                               | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2020) Section 6.2         | 47 CFR Part 15, Subpart C 15.207          | Pass   |
| Radiated Spurious Emissions Below 1GHz              |                                  | ANSI C63.10 (2020) Section 6.4,6.5     | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Radiated Spurious Emissions Above 1GHz              |                                  | ANSI C63.10 (2020) Section 6.6 & 7.8.8 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass   |
| Maximum Conducted Output Power                      |                                  | ANSI C63.10 (2020) Section 7.8.5       | 47 CFR Part 15, Subpart C 15.247(b)(2)    | Pass   |
| 20dB Bandwidth                                      |                                  | ANSI C63.10 (2020) Section 6.9.2       | 47 CFR Part 15, Subpart C 15.247(a)(1)    | Pass   |
| Carrier Frequencies Separation                      |                                  | ANSI C63.10 (2020) Section 7.8.2       | 47 CFR Part 15, Subpart C 15.247a(1)      | Pass   |
| Hopping Channel Number                              |                                  | ANSI C63.10 (2020) Section 7.8.3       | 47 CFR Part 15, Subpart C 15.247a(1)(i)   | Pass   |
| Dwell Time                                          |                                  | ANSI C63.10 (2020) Section 7.8.4       | 47 CFR Part 15, Subpart C 15.247a(1)(i)   | Pass   |
| Conducted Band Edges Measurement                    |                                  | ANSI C63.10 (2020) Section 7.8.7.2     | 47 CFR Part 15, Subpart C 15.247(d)       | Pass   |
| Conducted Spurious Emissions                        |                                  | ANSI C63.10 (2020) Section 7.8.7       | 47 CFR Part 15, Subpart C 15.247(d)       | Pass   |

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## 4 General Information

### 4.1 Details of E.U.T.

|                      |                                                                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:        | DC 3.3V                                                                                                                                     |
| FVIN:                | KGM100XBACR01A01M01                                                                                                                         |
| HVIN:                | KGM100XB                                                                                                                                    |
| Operation Frequency: | CSS_125KHz: 902.4MHz to 927.6MHz<br>FSK_50kbps 902.2MHz to 927.8MHz<br>FSK_150kbps 902.4MHz to 927.6MHz<br>FSK_250kbps 902.5MHz to 927.5MHz |
| Modulation Type:     | CSS, FSK                                                                                                                                    |
| Number of Channels:  | CSS_125KHz: 127<br>FSK_50kbps: 129<br>FSK_150kbps: 64<br>FSK_250kbps: 51                                                                    |
| Channel Spacing:     | CSS_125KHz: 200KHz<br>FSK_50kbps: 200KHz<br>FSK_150kbps: 400KHz<br>FSK_250kbps: 500KHz                                                      |
| Antenna Type:        | Dipole Antenna                                                                                                                              |
| Antenna Gain:        | 1.5dBi (Provided by the manufacturer)                                                                                                       |

### 4.2 Power level setting using in test

| Modulation  | Antenna | Power level setting |
|-------------|---------|---------------------|
| CSS_125KHz  | Ant 1   | 22                  |
| FSK_50kbps  | Ant 1   | 22                  |
| FSK_150kbps | Ant 1   | 22                  |
| FSK_250kbps | Ant 1   | 22                  |

### 4.3 Channel List

CSS\_125KHz

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 902.4           | 33      | 908.8           | 65      | 915.2           | 97      | 921.6           |
| 2       | 902.6           | 34      | 909.0           | 66      | 915.4           | 98      | 921.8           |
| 3       | 902.8           | 35      | 909.2           | 67      | 915.6           | 99      | 922.0           |
| 4       | 903.0           | 36      | 909.4           | 68      | 915.8           | 100     | 922.2           |
| 5       | 903.2           | 37      | 909.6           | 69      | 916.0           | 101     | 922.4           |
| 6       | 903.4           | 38      | 909.8           | 70      | 916.2           | 102     | 922.6           |
| 7       | 903.6           | 39      | 910.0           | 71      | 916.4           | 103     | 922.8           |
| 8       | 903.8           | 40      | 910.2           | 72      | 916.6           | 104     | 923.0           |
| 9       | 904.0           | 41      | 910.4           | 73      | 916.8           | 105     | 923.2           |
| 10      | 904.2           | 42      | 910.6           | 74      | 917.0           | 106     | 923.4           |
| 11      | 904.4           | 43      | 910.8           | 75      | 917.2           | 107     | 923.6           |
| 12      | 904.6           | 44      | 911.0           | 76      | 917.4           | 108     | 923.8           |
| 13      | 904.8           | 45      | 911.2           | 77      | 917.6           | 109     | 924.0           |
| 14      | 905.0           | 46      | 911.4           | 78      | 917.8           | 110     | 924.2           |
| 15      | 905.2           | 47      | 911.6           | 79      | 918.0           | 111     | 924.4           |
| 16      | 905.4           | 48      | 911.8           | 80      | 918.2           | 112     | 924.6           |
| 17      | 905.6           | 49      | 912.0           | 81      | 918.4           | 113     | 924.8           |
| 18      | 905.8           | 50      | 912.2           | 82      | 918.6           | 114     | 925.0           |
| 19      | 906.0           | 51      | 912.4           | 83      | 918.8           | 115     | 925.2           |
| 20      | 906.2           | 52      | 912.6           | 84      | 919.0           | 116     | 925.4           |
| 21      | 906.4           | 53      | 912.8           | 85      | 919.2           | 117     | 925.6           |
| 22      | 906.6           | 54      | 913.0           | 86      | 919.4           | 118     | 925.8           |
| 23      | 906.8           | 55      | 913.2           | 87      | 919.6           | 119     | 926.0           |
| 24      | 907.0           | 56      | 913.4           | 88      | 919.8           | 120     | 926.2           |
| 25      | 907.2           | 57      | 913.6           | 89      | 920.0           | 121     | 926.4           |
| 26      | 907.4           | 58      | 913.8           | 90      | 920.2           | 122     | 926.6           |
| 27      | 907.6           | 59      | 914.0           | 91      | 920.4           | 123     | 926.8           |
| 28      | 907.8           | 60      | 914.2           | 92      | 920.6           | 124     | 927.0           |
| 29      | 908.0           | 61      | 914.4           | 93      | 920.8           | 125     | 927.2           |
| 30      | 908.2           | 62      | 914.6           | 94      | 921.0           | 126     | 927.4           |
| 31      | 908.4           | 63      | 914.8           | 95      | 921.2           | 127     | 927.6           |
| 32      | 908.6           | 64      | 915.0           | 96      | 921.4           |         |                 |

## FSK\_50kbps

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 902.2           | 34      | 908.8           | 67      | 915.4           | 100     | 922.0           |
| 2       | 902.4           | 35      | 909.0           | 68      | 915.6           | 101     | 922.2           |
| 3       | 902.6           | 36      | 909.2           | 69      | 915.8           | 102     | 922.4           |
| 4       | 902.8           | 37      | 909.4           | 70      | 916.0           | 103     | 922.6           |
| 5       | 903.0           | 38      | 909.6           | 71      | 916.2           | 104     | 922.8           |
| 6       | 903.2           | 39      | 909.8           | 72      | 916.4           | 105     | 923.0           |
| 7       | 903.4           | 40      | 910.0           | 73      | 916.6           | 106     | 923.2           |
| 8       | 903.6           | 41      | 910.2           | 74      | 916.8           | 107     | 923.4           |
| 9       | 903.8           | 42      | 910.4           | 75      | 917.0           | 108     | 923.6           |
| 10      | 904.0           | 43      | 910.6           | 76      | 917.2           | 109     | 923.8           |
| 11      | 904.2           | 44      | 910.8           | 77      | 917.4           | 110     | 924.0           |
| 12      | 904.4           | 45      | 911.0           | 78      | 917.6           | 111     | 924.2           |
| 13      | 904.6           | 46      | 911.2           | 79      | 917.8           | 112     | 924.4           |
| 14      | 904.8           | 47      | 911.4           | 80      | 918.0           | 113     | 924.6           |
| 15      | 905.0           | 48      | 911.6           | 81      | 918.2           | 114     | 924.8           |
| 16      | 905.2           | 49      | 911.8           | 82      | 918.4           | 115     | 925.0           |
| 17      | 905.4           | 50      | 912.0           | 83      | 918.6           | 116     | 925.2           |
| 18      | 905.6           | 51      | 912.2           | 84      | 918.8           | 117     | 925.4           |
| 19      | 905.8           | 52      | 912.4           | 85      | 919.0           | 118     | 925.6           |
| 20      | 906.0           | 53      | 912.6           | 86      | 919.2           | 119     | 925.8           |
| 21      | 906.2           | 54      | 912.8           | 87      | 919.4           | 120     | 926.0           |
| 22      | 906.4           | 55      | 913.0           | 88      | 919.6           | 121     | 926.2           |
| 23      | 906.6           | 56      | 913.2           | 89      | 919.8           | 122     | 926.4           |
| 24      | 906.8           | 57      | 913.4           | 90      | 920.0           | 123     | 926.6           |
| 25      | 907.0           | 58      | 913.6           | 91      | 920.2           | 124     | 926.8           |
| 26      | 907.2           | 59      | 913.8           | 92      | 920.4           | 125     | 927.0           |
| 27      | 907.4           | 60      | 914.0           | 93      | 920.6           | 126     | 927.2           |
| 28      | 907.6           | 61      | 914.2           | 94      | 920.8           | 127     | 927.4           |
| 29      | 907.8           | 62      | 914.4           | 95      | 921.0           | 128     | 927.6           |
| 30      | 908.0           | 63      | 914.6           | 96      | 921.2           | 129     | 927.8           |
| 31      | 908.2           | 64      | 914.8           | 97      | 921.4           |         |                 |
| 32      | 908.4           | 65      | 915.0           | 98      | 921.6           |         |                 |
| 33      | 908.6           | 66      | 915.2           | 99      | 921.8           |         |                 |

## FSK\_150kbps

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 902.4           | 17      | 908.8           | 33      | 915.2           | 49      | 921.6           |
| 2       | 902.8           | 18      | 909.2           | 34      | 915.6           | 50      | 922.0           |
| 3       | 903.2           | 19      | 909.6           | 35      | 916.0           | 51      | 922.4           |
| 4       | 903.6           | 20      | 910.0           | 36      | 916.4           | 52      | 922.8           |
| 5       | 904.0           | 21      | 910.4           | 37      | 916.8           | 53      | 923.2           |
| 6       | 904.4           | 22      | 910.8           | 38      | 917.2           | 54      | 923.6           |
| 7       | 904.8           | 23      | 911.2           | 39      | 917.6           | 55      | 924.0           |
| 8       | 905.2           | 24      | 911.6           | 40      | 918.0           | 56      | 924.4           |
| 9       | 905.6           | 25      | 912.0           | 41      | 918.4           | 57      | 924.8           |
| 10      | 906.0           | 26      | 912.4           | 42      | 918.8           | 58      | 925.2           |
| 11      | 906.4           | 27      | 912.8           | 43      | 919.2           | 59      | 925.6           |
| 12      | 906.8           | 28      | 913.2           | 44      | 919.6           | 60      | 926.0           |
| 13      | 907.2           | 29      | 913.6           | 45      | 920.0           | 61      | 926.4           |
| 14      | 907.6           | 30      | 914.0           | 46      | 920.4           | 62      | 926.8           |
| 15      | 908.0           | 31      | 914.4           | 47      | 920.8           | 63      | 927.2           |
| 16      | 908.4           | 32      | 914.8           | 48      | 921.2           | 64      | 927.6           |

## FSK\_250kbps

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 1       | 902.5           | 14      | 909.0           | 27      | 915.5           | 40      | 922.0           |
| 2       | 903.0           | 15      | 909.5           | 28      | 916.0           | 41      | 922.5           |
| 3       | 903.5           | 16      | 910.0           | 29      | 916.5           | 42      | 923.0           |
| 4       | 904.0           | 17      | 910.5           | 30      | 917.0           | 43      | 923.5           |
| 5       | 904.5           | 18      | 911.0           | 31      | 917.5           | 44      | 924.0           |
| 6       | 905.0           | 19      | 911.5           | 32      | 918.0           | 45      | 924.5           |
| 7       | 905.5           | 20      | 912.0           | 33      | 918.5           | 46      | 925.0           |
| 8       | 906.0           | 21      | 912.5           | 34      | 919.0           | 47      | 925.5           |
| 9       | 906.5           | 22      | 913.0           | 35      | 919.5           | 48      | 926.0           |
| 10      | 907.0           | 23      | 913.5           | 36      | 920.0           | 49      | 926.5           |
| 11      | 907.5           | 24      | 914.0           | 37      | 920.5           | 50      | 927.0           |
| 12      | 908.0           | 25      | 914.5           | 38      | 921.0           | 51      | 927.5           |
| 13      | 908.5           | 26      | 915.0           | 39      | 921.5           |         |                 |



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#### 4.4 Description of Support Units

| Description | Manufacturer                                        | Model No.    | Serial No. |
|-------------|-----------------------------------------------------|--------------|------------|
| Notebook    | LENOVO                                              | 80H1         | /          |
| Adapter     | Sichuan Jiuzhou<br>Electronic Technology<br>Co.,Ltd | DYS05200CQ-U | /          |

#### 4.5 Measurement Uncertainty

| No.                                                                                                                                                      | Item                            | Measurement Uncertainty |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|
| 1                                                                                                                                                        | Radio Frequency                 | $8.4 \times 10^{-8}$    |
| 2                                                                                                                                                        | Timeout                         | 2s                      |
| 3                                                                                                                                                        | Duty Cycle                      | 0.37%                   |
| 4                                                                                                                                                        | Occupied Bandwidth              | 3%                      |
| 5                                                                                                                                                        | RF Conducted Power              | 0.6dB                   |
| 6                                                                                                                                                        | RF Power Density                | 2.9dB                   |
| 7                                                                                                                                                        | Conducted Spurious Emissions    | 0.75dB                  |
| 8                                                                                                                                                        | RF Radiated Power               | 5.2dB (Below 1GHz)      |
|                                                                                                                                                          |                                 | 5.9dB (Above 1GHz)      |
| 9                                                                                                                                                        | Radiated Spurious Emission Test | 4.2dB (Below 30MHz)     |
|                                                                                                                                                          |                                 | 4.5dB (30MHz-1GHz)      |
|                                                                                                                                                          |                                 | 5.1dB (1GHz-18GHz)      |
|                                                                                                                                                          |                                 | 5.4dB (Above 18GHz)     |
| 10                                                                                                                                                       | Temperature Test                | 1°C                     |
| 11                                                                                                                                                       | Humidity Test                   | 3%                      |
| 12                                                                                                                                                       | Supply Voltages                 | 1.5%                    |
| 13                                                                                                                                                       | Time                            | 3%                      |
| Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                                 |                         |

#### 4.6 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

#### 4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA).

- **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

- **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No:1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

#### 4.8 Deviation from Standards

None

#### 4.9 Abnormalities from Standard Conditions

None

## 5 Equipment List

| Item                                         | Equipment                            | Manufacturer    | Model                | Inventory No          | Cal Date   | Cal. Due Date |
|----------------------------------------------|--------------------------------------|-----------------|----------------------|-----------------------|------------|---------------|
| <b>Conducted Emission at Mains Terminals</b> |                                      |                 |                      |                       |            |               |
| 1                                            | EMI Test Receive                     | R&S             | ESCI                 | KS301196              | 07/06/2026 | 07/05/2027    |
| 2                                            | LISN                                 | R&S             | ENV216               | KS301197              | 01/08/2026 | 01/07/2027    |
| 3                                            | LISN                                 | Schwarzbeck     | NNLK 8129            | KS301091              | 01/08/2026 | 01/07/2027    |
| 4                                            | Pulse Limiter                        | R&S             | ESH3-Z2              | KUS1902E001           | 12/18/2025 | 12/17/2026    |
| 5                                            | CE test Cable                        | Thermax         | /                    | CZ301102              | 12/18/2025 | 12/17/2026    |
| 6                                            | Software                             | Faratronic      | E3                   | /                     | N.C.R      | N.C.R         |
| <b>RF Conducted Test</b>                     |                                      |                 |                      |                       |            |               |
| 1                                            | Spectrum Analyzer                    | Keysight        | N9020A               | KUS1911E004-2         | 07/07/2026 | 07/06/2027    |
| 2                                            | Spectrum Analyzer                    | Keysight        | N9020A               | KUS2001M001-2         | 07/07/2026 | 07/06/2027    |
| 3                                            | Spectrum Analyzer                    | Keysight        | N9030B               | KSEM021-1             | 12/17/2025 | 12/16/2026    |
| 4                                            | Signal Generator                     | R&S             | SMBV100B             | KSEM032               | 12/17/2025 | 12/16/2026    |
| 5                                            | Signal Generator                     | R&S             | SMW200A              | KSEM020-1             | 07/07/2026 | 07/06/2027    |
| 6                                            | Signal Generator                     | Agilent         | N5182A               | KUS2001M001-1         | 07/07/2026 | 07/06/2027    |
| 7                                            | Signal Generator                     | Agilent         | E8257C               | KS301066              | 07/07/2026 | 07/06/2027    |
| 8                                            | Radio Communication Test Station     | Anritsu         | MT8000A              | KSEM001-1             | 07/07/2026 | 07/06/2027    |
| 9                                            | Radio Communication Analyzer         | Anritsu         | MT8821C              | KSEM002-1             | 12/17/2025 | 12/16/2026    |
| 10                                           | Universal Radio Communication Tester | R&S             | CMW500               | KUS1911E004-1         | 07/07/2026 | 07/06/2027    |
| 11                                           | Switcher                             | TST             | FY562                | KUS2001M001-4         | 12/17/2025 | 12/16/2026    |
| 12                                           | Conducted Test Cable                 | Thermax         | RF01-RF04            | CZ301111-<br>CZ301120 | 12/17/2025 | 12/16/2026    |
| 13                                           | Temp. / Humidity Chamber             | TERCHY          | MHK-120AK            | KS301190              | 07/07/2026 | 07/06/2027    |
| 14                                           | Temperature & Humidity Recorder      | Renke Control   | RS-WS-N01-6J         | KSEM024-5             | 12/30/2025 | 12/29/2026    |
| 15                                           | Software                             | BST             | TST-PASS             | /                     | NCR        | NCR           |
| <b>RF Radiated Test</b>                      |                                      |                 |                      |                       |            |               |
| 1                                            | Spectrum Analyzer                    | R&S             | FSV40                | KUS1806E003           | 07/06/2026 | 07/05/2027    |
| 2                                            | Universal Radio Communication Tester | R&S             | CMW500               | KSEM009-1             | 12/17/2025 | 12/16/2026    |
| 3                                            | Signal Generator                     | Agilent         | E8257C               | KS301066              | 07/07/2026 | 07/06/2027    |
| 4                                            | Loop Antenna (9KHz-30MHz)            | COM-POWER       | AL-130R              | KUS1806E001           | 07/07/2026 | 07/06/2027    |
| 5                                            | Bilog Antenna (30MHz-1GHz)           | TESEQ           | CBL 6112D            | KUS1806E005           | 07/07/2026 | 07/06/2027    |
| 6                                            | Horn-antenna(1-18GHz)                | Schwarzbeck     | BBHA9120D            | KS301079              | 01/11/2026 | 01/10/2028    |
| 7                                            | Horn Antenna(18-40GHz)               | Schwarzbeck     | BBHA9170             | CZ301058              | 01/11/2026 | 01/10/2028    |
| 8                                            | Amplifier(30MHz~1GHz)                | TST             | LNA009100G30         | KSEM061               | 12/18/2025 | 12/17/2026    |
| 9                                            | Amplifier(400MHz~8GHz)               | TST             | LNA004080G30         | KSEM062               | 12/18/2025 | 12/17/2026    |
| 10                                           | Amplifier(1GHz~18GHz)                | TST             | LNA010180G45         | KSEM039               | 07/07/2026 | 07/06/2027    |
| 11                                           | Amplifier(18~40GHz)                  | TST             | LNA180400G40         | KSEM038               | 07/07/2026 | 07/06/2027    |
| 12                                           | Radiation Test Cable                 | REBES MICROWAVE | A81-SMSM-10M         | CZ301097-<br>CZ301100 | 11/14/2025 | 11/13/2026    |
| 13                                           | Temperature & Humidity Recorder      | Renke Control   | RS-WS-N01-6J         | KSEM024-4             | 12/30/2025 | 12/29/2026    |
| 14                                           | Software                             | ESE             | E3 V<br>6.111221a    | /                     | NCR        | NCR           |
| 15                                           | Measurement Software                 | Tonscend        | JS32-RE<br>V5.0.0.1  | /                     | NCR        | NCR           |
| 16                                           | Measurement Software                 | Tonscend        | JS32-RSE<br>V5.0.0.0 | /                     | NCR        | NCR           |

## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

#### 6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Dipole Antenna and no consideration of replacement. The best case gain of the antenna is 1.5 dBi.

Antenna location: Refer to internal photo.

## 6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

### 6.2.1 Test Requirement:

### 6.2.2 Conclusion

Standard Requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1):

According to Technical Specification, the pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones.

> Number of shift register stages: 9

> Length of pseudo-random sequence:  $2^9 - 1 = 511$  bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h):

According to Technical specification, the system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

The system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

## 7 Radio Spectrum Matter Test Results

### 7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2020) Section 6.2

Limit:

| Frequency of emission(MHz)                                             | Conducted limit(dBμV) |           |
|------------------------------------------------------------------------|-----------------------|-----------|
|                                                                        | Quasi-peak            | Average   |
| 0.15-0.5                                                               | 66 to 56*             | 56 to 46* |
| 0.5-5                                                                  | 56                    | 46        |
| 5-30                                                                   | 60                    | 50        |
| *Decreases with the logarithm of the frequency.                        |                       |           |
| Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |                       |           |

#### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21.0 °C

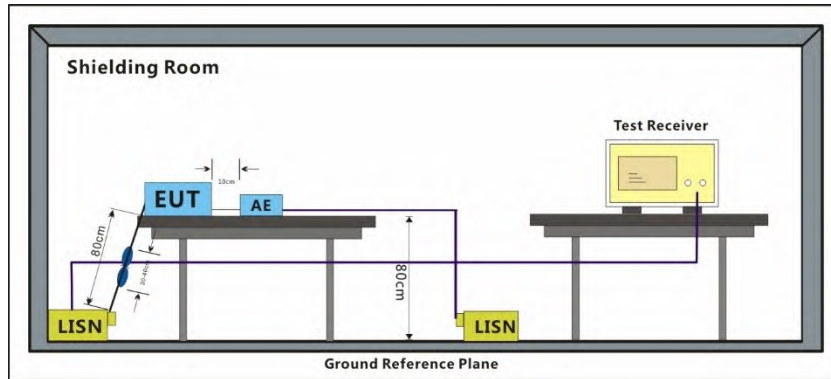
Humidity: 48.4 % RH

Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------|
| Pre-scan              | 03        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_50kbps modulation.  |
| Pre-scan              | 04        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_150kbps modulation. |
| Pre-scan              | 05        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_250kbps modulation. |
| Final test            | 02        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with CSS_125KHz modulation.  |

### 7.1.3 Test Setup Diagram

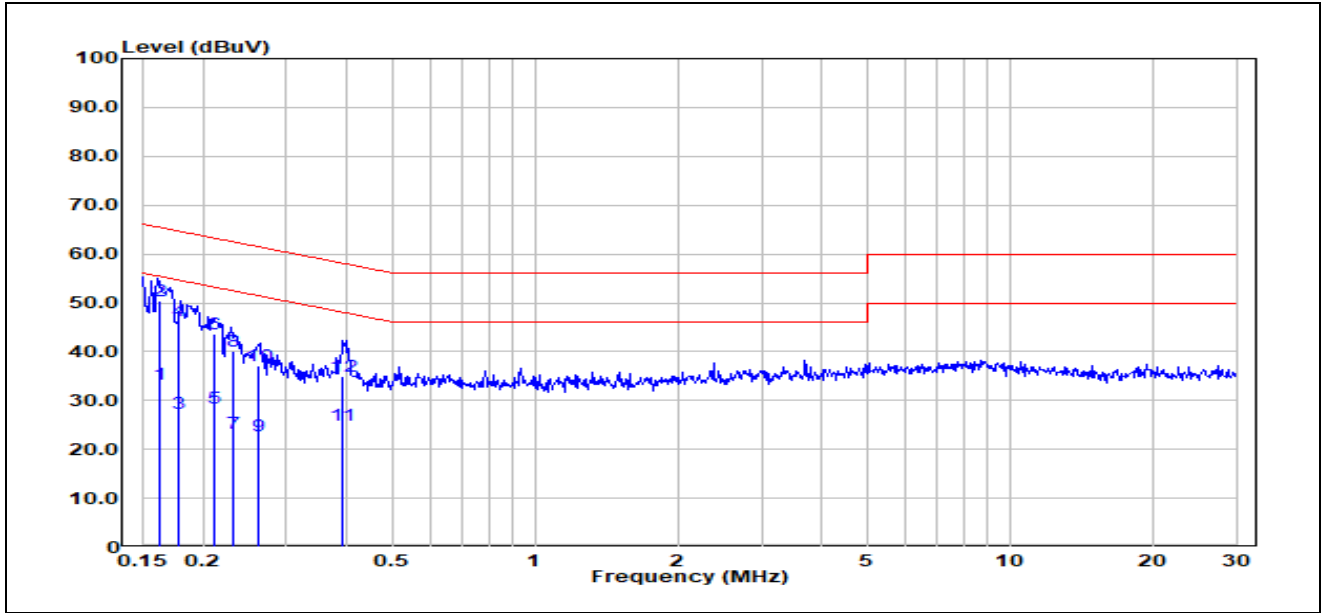


### 7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a  $50\Omega/50\mu\text{H} + 50\Omega$  linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

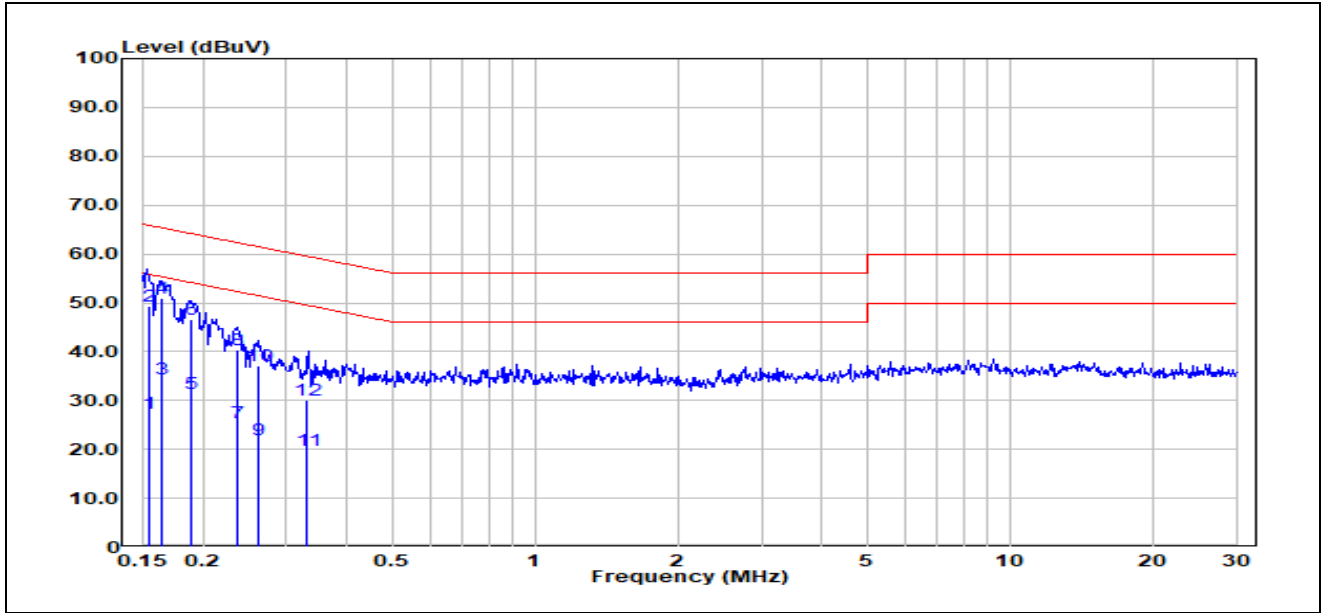
Remark:  $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{LISN Factor}$

Test Mode: 02; Line: Live line



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark  |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|---------|
| 1   | 0.1619             | 13.04             | 20.33                 | 33.37            | 55.37           | -22.00         | Average |
| 2   | 0.1619             | 30.05             | 20.33                 | 50.38            | 65.37           | -14.99         | QP      |
| 3   | 0.1783             | 7.17              | 20.28                 | 27.45            | 54.56           | -27.11         | Average |
| 4   | 0.1783             | 26.11             | 20.28                 | 46.39            | 64.56           | -18.17         | QP      |
| 5   | 0.2121             | 8.38              | 20.21                 | 28.59            | 53.12           | -24.53         | Average |
| 6   | 0.2121             | 23.44             | 20.21                 | 43.65            | 63.12           | -19.47         | QP      |
| 7   | 0.2307             | 3.14              | 20.16                 | 23.30            | 52.43           | -29.13         | Average |
| 8   | 0.2307             | 19.87             | 20.16                 | 40.03            | 62.43           | -22.40         | QP      |
| 9   | 0.2622             | 2.75              | 20.09                 | 22.84            | 51.36           | -28.52         | Average |
| 10  | 0.2622             | 17.02             | 20.09                 | 37.11            | 61.36           | -24.25         | QP      |
| 11  | 0.3933             | 4.67              | 20.20                 | 24.87            | 47.99           | -23.12         | Average |
| 12  | 0.3933             | 14.86             | 20.20                 | 35.06            | 57.99           | -22.93         | QP      |

Test Mode: 02; Line: Neutral Line



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark  |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|---------|
| 1   | 0.1544             | 6.91              | 20.43                 | 27.34            | 55.76           | -28.42         | Average |
| 2   | 0.1544             | 28.80             | 20.43                 | 49.23            | 65.76           | -16.53         | QP      |
| 3   | 0.1633             | 14.06             | 20.41                 | 34.47            | 55.29           | -20.82         | Average |
| 4   | 0.1633             | 30.43             | 20.41                 | 50.84            | 65.29           | -14.45         | QP      |
| 5   | 0.1895             | 11.18             | 20.29                 | 31.47            | 54.06           | -22.59         | Average |
| 6   | 0.1895             | 26.45             | 20.29                 | 46.74            | 64.06           | -17.32         | QP      |
| 7   | 0.2364             | 5.39              | 20.17                 | 25.56            | 52.22           | -26.66         | Average |
| 8   | 0.2364             | 20.31             | 20.17                 | 40.48            | 62.22           | -21.74         | QP      |
| 9   | 0.2621             | 1.95              | 20.12                 | 22.07            | 51.36           | -29.29         | Average |
| 10  | 0.2621             | 17.01             | 20.12                 | 37.13            | 61.36           | -24.23         | QP      |
| 11  | 0.3314             | -0.26             | 20.10                 | 19.84            | 49.42           | -29.58         | Average |
| 12  | 0.3314             | 10.03             | 20.10                 | 30.13            | 59.42           | -29.29         | QP      |

## 7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.4,6.5

Measurement Distance: 3M

Limit:

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | Field strength (dBμV/m@3m) |
|-----------------|-----------------------------------|-------------------------------|----------------------------|
| 0.009-0.490     | 2400/F(kHz)                       | 300                           | 128.5 to 93.8              |
| 0.490-1.705     | 24000/F(kHz)                      | 30                            | 73.8 to 62.9               |
| 1.705-30.0      | 30                                | 30                            | 69.60                      |
| 30-88           | 100                               | 3                             | 40.0                       |
| 88-216          | 150                               | 3                             | 43.5                       |
| 216-960         | 200                               | 3                             | 46.0                       |
| 960-1000        | 500                               | 3                             | 54.0                       |

Note : The above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

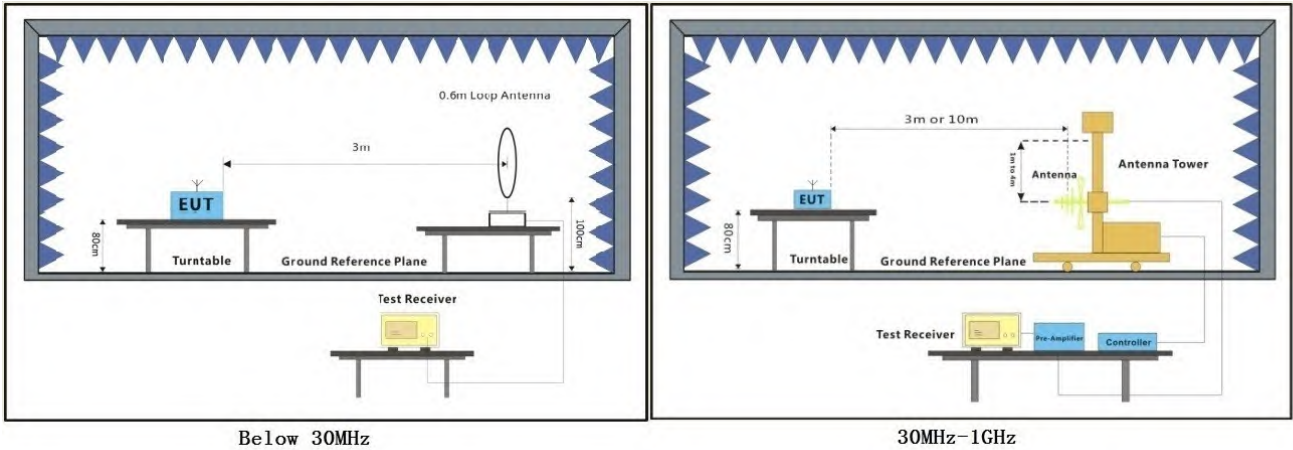
Humidity: 45.6 % RH

Atmospheric Pressure: 1010 mbar

### 7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------|
| Pre-scan              | 03        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_50kbps modulation.  |
| Pre-scan              | 04        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_150kbps modulation. |
| Pre-scan              | 05        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_250kbps modulation. |
| Final test            | 02        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with CSS_125KHz modulation.  |

### 7.2.3 Test Setup Diagram



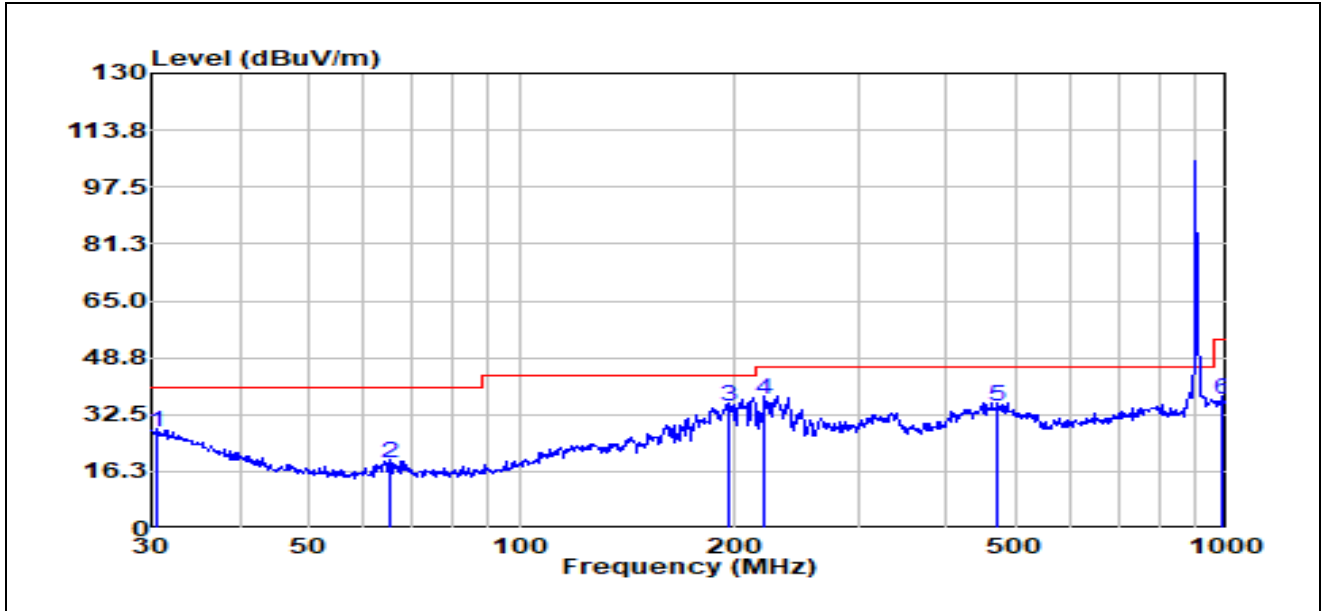
### 7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

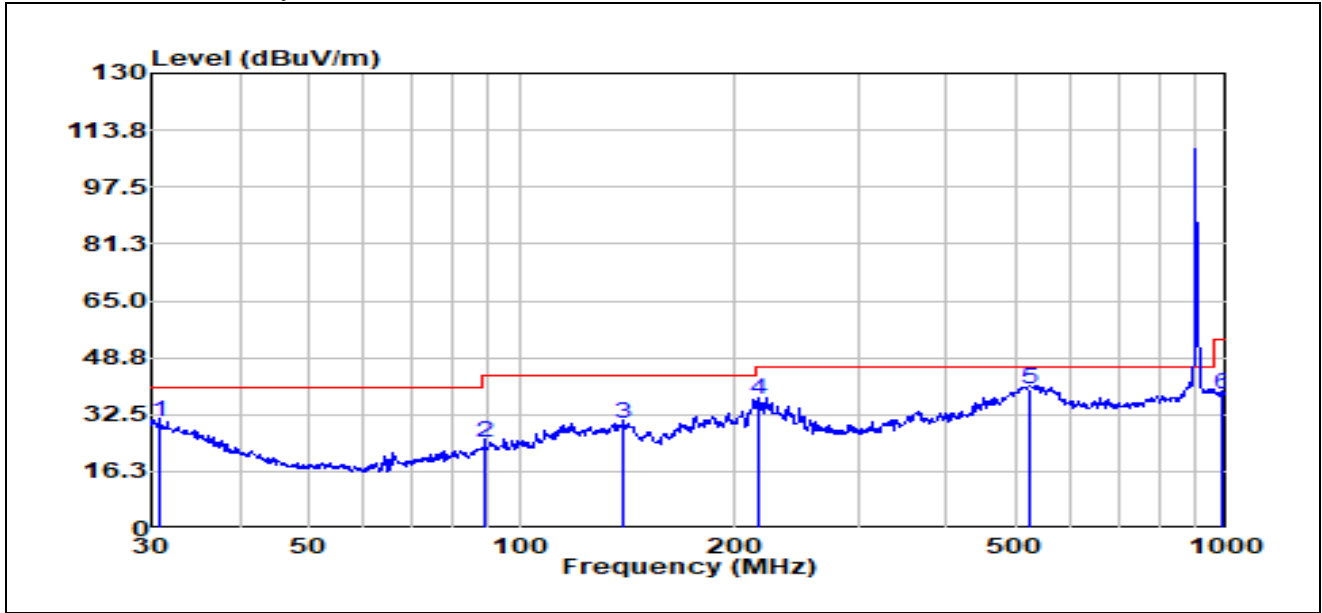
- 1 Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

Test Mode: 02; Polarity: Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 30.64              | 4.51              | 22.99                   | 27.50              | 40.00             | -12.50         | QP     |
| 2   | 65.34              | 7.20              | 11.44                   | 18.64              | 40.00             | -21.36         | QP     |
| 3   | 196.51             | 18.55             | 16.46                   | 35.01              | 43.50             | -8.49          | QP     |
| 4   | 221.39             | 21.49             | 15.42                   | 36.91              | 46.00             | -9.09          | QP     |
| 5   | 473.84             | 11.97             | 22.80                   | 34.77              | 46.00             | -11.23         | QP     |
| 6   | 986.07             | 7.95              | 28.87                   | 36.82              | 54.00             | -17.18         | QP     |

Test Mode: 02; Polarity: Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 30.85              | 5.94              | 24.44                   | 30.38              | 40.00             | -9.62          | QP     |
| 2   | 88.96              | 7.30              | 17.29                   | 24.59              | 43.50             | -18.91         | QP     |
| 3   | 139.85             | 9.50              | 20.22                   | 29.72              | 43.50             | -13.78         | QP     |
| 4   | 217.54             | 18.50             | 18.24                   | 36.74              | 46.00             | -9.26          | QP     |
| 5   | 526.40             | 12.65             | 27.29                   | 39.94              | 46.00             | -6.06          | QP     |
| 6   | 982.62             | 6.83              | 31.23                   | 38.06              | 54.00             | -15.94         | QP     |

### 7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2020) Section 6.6 & 7.8.8

Measurement Distance: 3M

Limit:

| Frequency<br>(MHz) | Field strength<br>(microvolts/meter) | Measurement distance(meters) |
|--------------------|--------------------------------------|------------------------------|
| Above 1000         | 500                                  | 3                            |

Note:

At Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is  $20\log(1/3) = -9.54\text{dB}$  (for 1m test distance).

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

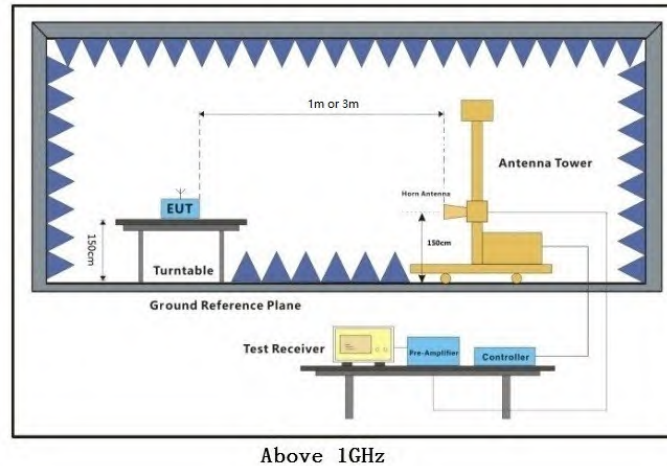
Humidity: 45.6 % RH

Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                 |
|--------------------------|--------------|---------------------------------------------------------------------------------------------|
| Final test               | 02           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with CSS_125KHz modulation.  |
| Final test               | 03           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_50kbps modulation.  |
| Final test               | 04           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_150kbps modulation. |
| Final test               | 05           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_250kbps modulation. |

### 7.3.3 Test Setup Diagram



Above 1GHz

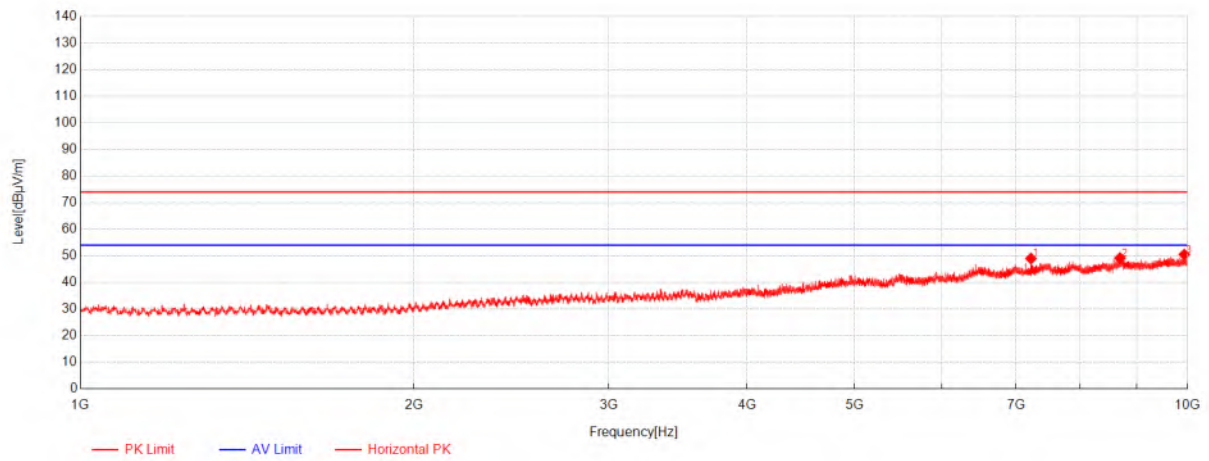
### 7.3.4 Measurement Procedure and Data

- For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 10GHz, and 1m away from the interference-receiving antenna above 18GHz.
- The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.
- The antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

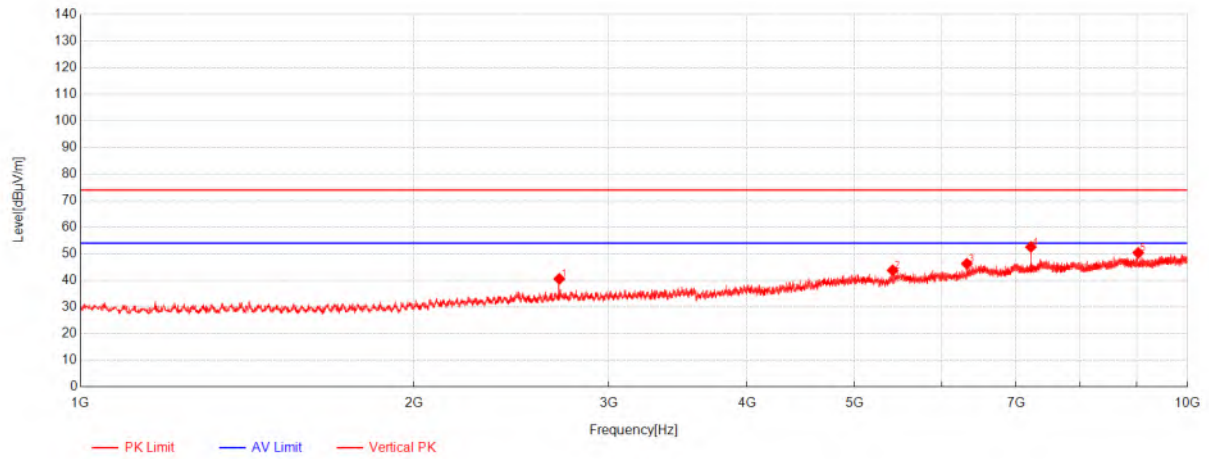
- Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.
- As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
- For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s).

### CSS\_125KHz-902.4MHz- Horizontal



| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 7219            | 59.89          | 36.28     | -47.21      | 48.96          | 74.00          | 25.04       | Horizontal |
| -         | -               | -              | -         | -           | 48.96          | 54.00          | 5.04        | Horizontal |
| 2         | 8686.75         | 56.14          | 37.47     | -44.45      | 49.16          | 74.00          | 24.84       | Horizontal |
| -         | -               | -              | -         | -           | 49.16          | 54.00          | 4.84        | Horizontal |
| 3         | 9931            | 54.97          | 39.02     | -43.52      | 50.47          | 74.00          | 23.53       | Horizontal |
| -         | -               | -              | -         | -           | 50.47          | 54.00          | 3.53        | Horizontal |

## CSS\_125KHz-902.4-MHz- Vertical



### Data List

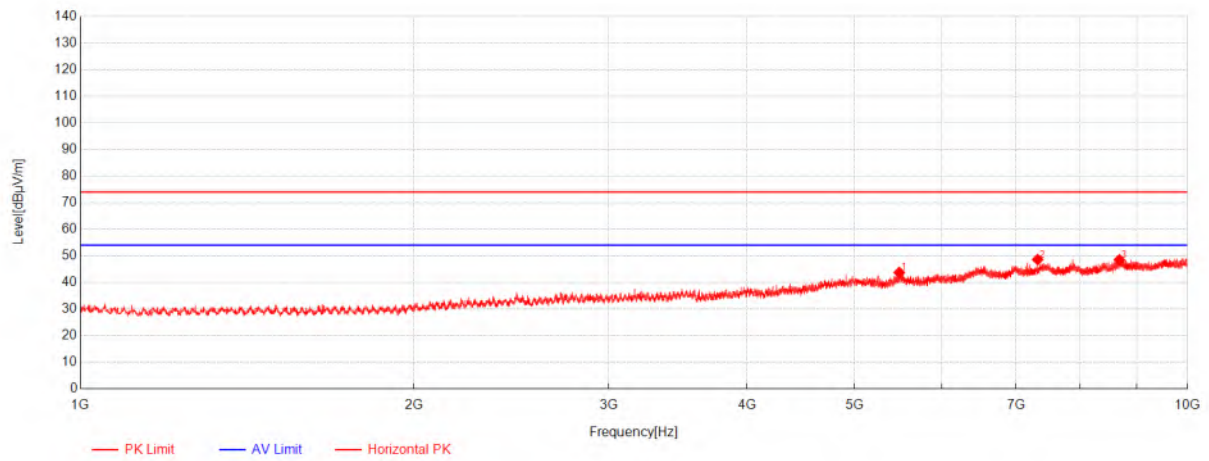
| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
|-----|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| 1   | 2707            | 66.35          | 27.13     | -52.90      | 40.58          | 74.00          | 33.42       | Vertical |
| -   | -               | -              | -         | -           | 40.58          | 54.00          | 13.42       | Vertical |
| 2   | 5414.5          | 59.97          | 31.76     | -47.94      | 43.79          | 74.00          | 30.21       | Vertical |
| -   | -               | -              | -         | -           | 43.79          | 54.00          | 10.21       | Vertical |
| 3   | 6317.5          | 59.42          | 33.71     | -46.85      | 46.28          | 74.00          | 27.72       | Vertical |
| -   | -               | -              | -         | -           | 46.28          | 54.00          | 7.72        | Vertical |
| 4   | 7218.25         | 63.51          | 36.27     | -47.22      | 52.56          | 74.00          | 21.44       | Vertical |
| -   | -               | -              | -         | -           | 52.56          | 54.00          | 1.44        | Vertical |
| 5   | 9023.5          | 57.27          | 37.90     | -44.83      | 50.34          | 74.00          | 23.66       | Vertical |
| -   | -               | -              | -         | -           | 50.34          | 54.00          | 3.66        | Vertical |



Report No.: KSCR260600132503

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CSS\_125KHz-915MHz- Horizontal



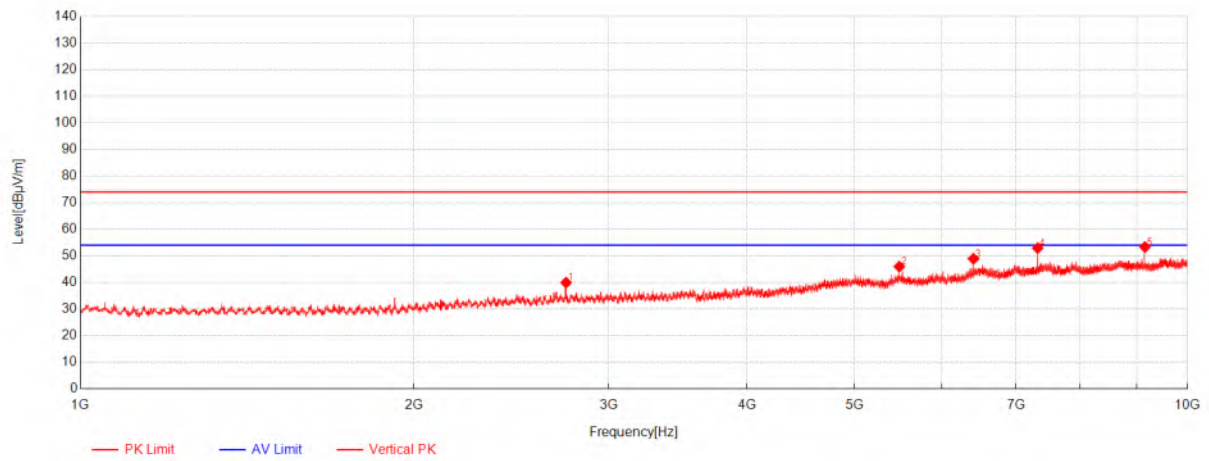
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 5489.5          | 58.56          | 32.06     | -46.91      | 43.71          | 74.00          | 30.29       | Horizontal |
| -         | -               | -              | -         | -           | 43.71          | 54.00          | 10.29       | Horizontal |
| 2         | 7320.25         | 59.08          | 36.34     | -46.85      | 48.57          | 74.00          | 25.43       | Horizontal |
| -         | -               | -              | -         | -           | 48.57          | 54.00          | 5.43        | Horizontal |
| 3         | 8677            | 55.55          | 37.45     | -44.53      | 48.47          | 74.00          | 25.53       | Horizontal |
| -         | -               | -              | -         | -           | 48.47          | 54.00          | 5.53        | Horizontal |



Report No.: KSCR260600132503

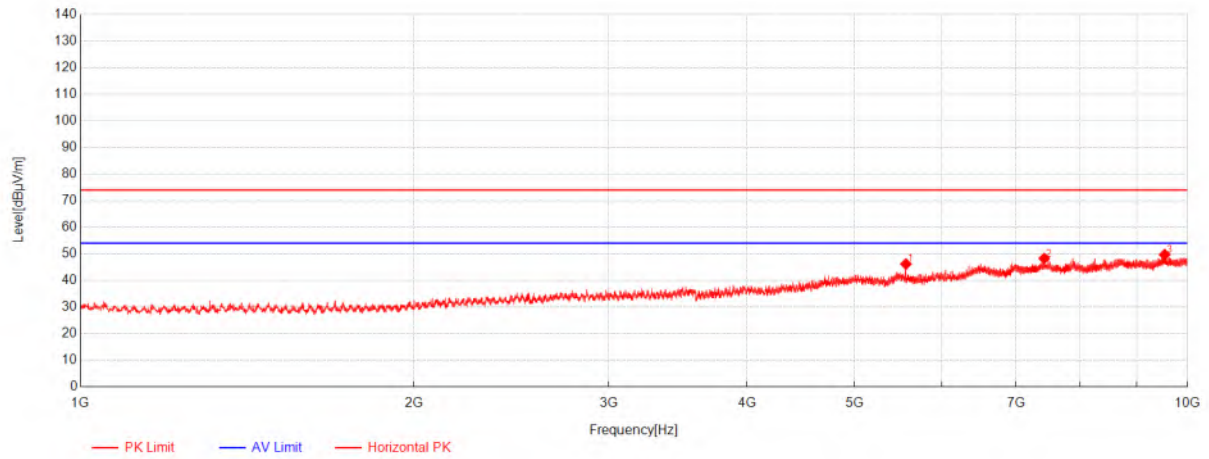
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CSS\_125KHz-915MHz- Vertical



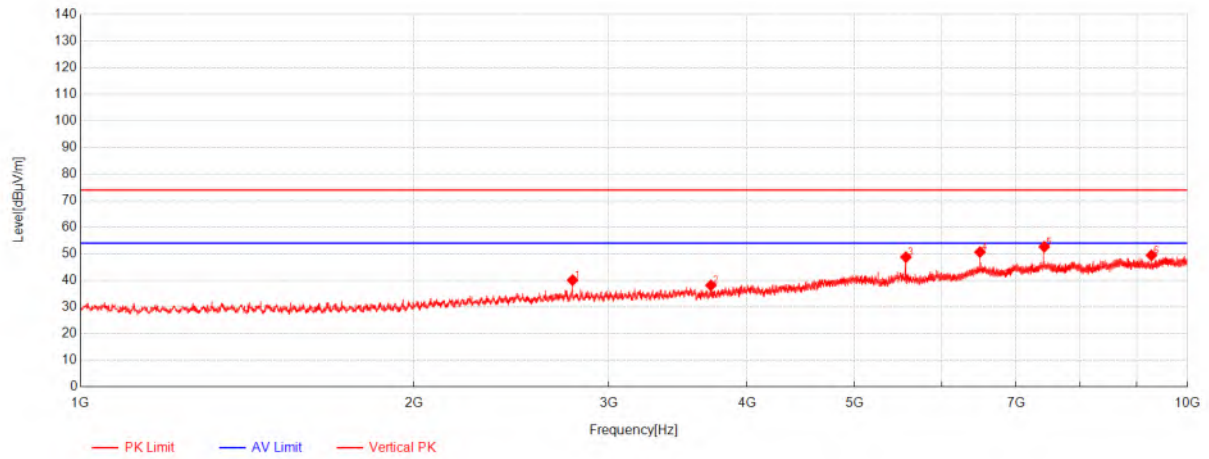
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2745.25         | 65.75          | 27.04     | -52.87      | 39.92          | 74.00          | 34.08       | Vertical |
| -         | -               | -              | -         | -           | 39.92          | 54.00          | 14.08       | Vertical |
| 2         | 5490.25         | 60.78          | 32.06     | -46.90      | 45.94          | 74.00          | 28.06       | Vertical |
| -         | -               | -              | -         | -           | 45.94          | 54.00          | 8.06        | Vertical |
| 3         | 6405.25         | 61.23          | 33.93     | -46.28      | 48.88          | 74.00          | 25.12       | Vertical |
| -         | -               | -              | -         | -           | 48.88          | 54.00          | 5.12        | Vertical |
| 4         | 7320.25         | 63.41          | 36.34     | -46.85      | 52.90          | 74.00          | 21.10       | Vertical |
| -         | -               | -              | -         | -           | 52.90          | 54.00          | 1.10        | Vertical |
| 5         | 9149.5          | 59.98          | 38.10     | -44.76      | 53.32          | 74.00          | 20.68       | Vertical |
| -         | -               | -              | -         | -           | 53.32          | 54.00          | 0.68        | Vertical |

## CSS\_125KHz-927.6MHz- Horizontal



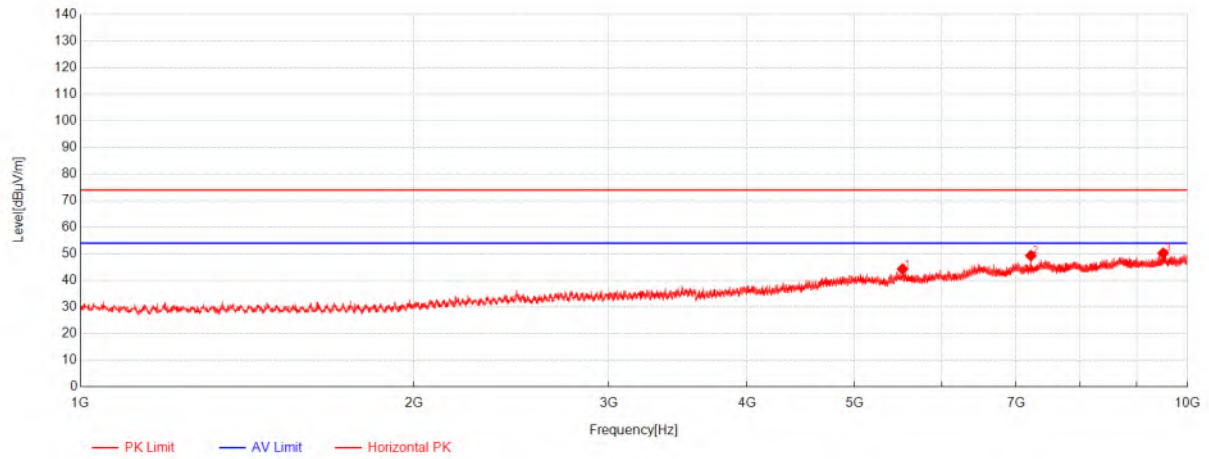
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 5566            | 61.62          | 31.96     | -47.42      | 46.16          | 74.00          | 27.84       | Horizontal |
| -         | -               | -              | -         | -           | 46.16          | 54.00          | 7.84        | Horizontal |
| 2         | 7420.75         | 57.77          | 36.26     | -45.77      | 48.26          | 74.00          | 25.74       | Horizontal |
| -         | -               | -              | -         | -           | 48.26          | 54.00          | 5.74        | Horizontal |
| 3         | 9532.75         | 55.21          | 38.56     | -44.13      | 49.64          | 74.00          | 24.36       | Horizontal |
| -         | -               | -              | -         | -           | 49.64          | 54.00          | 4.36        | Horizontal |

### CSS\_125KHz-927.6MHz- Vertical



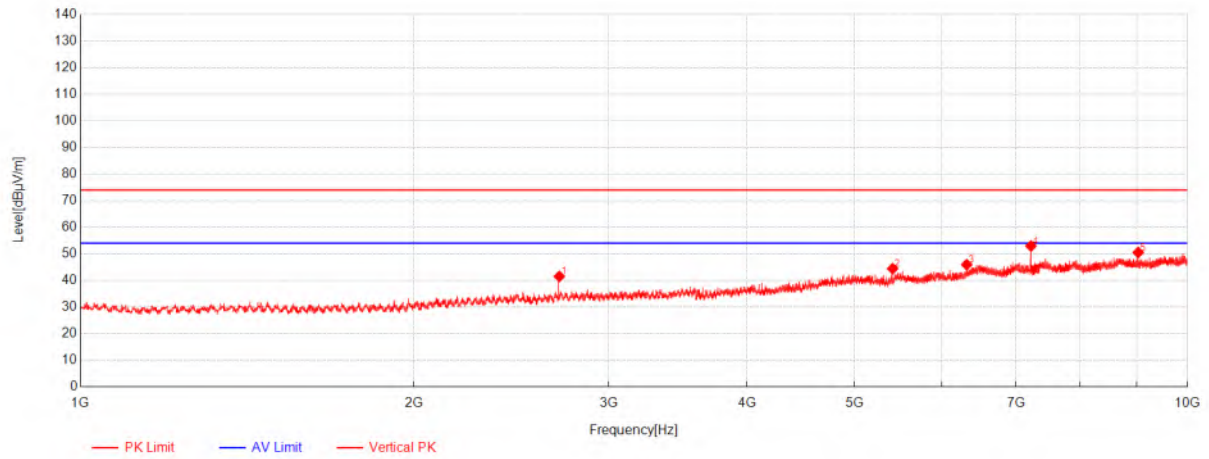
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2782.75         | 65.47          | 27.47     | -52.84      | 40.10          | 74.00          | 33.90       | Vertical |
| -         | -               | -              | -         | -           | 40.10          | 54.00          | 13.90       | Vertical |
| 2         | 3710.5          | 61.21          | 28.88     | -51.95      | 38.14          | 74.00          | 35.86       | Vertical |
| -         | -               | -              | -         | -           | 38.14          | 54.00          | 15.86       | Vertical |
| 3         | 5566            | 64.19          | 31.96     | -47.42      | 48.73          | 74.00          | 25.27       | Vertical |
| -         | -               | -              | -         | -           | 48.73          | 54.00          | 5.27        | Vertical |
| 4         | 6493            | 62.27          | 34.20     | -45.83      | 50.64          | 74.00          | 23.36       | Vertical |
| -         | -               | -              | -         | -           | 50.64          | 54.00          | 3.36        | Vertical |
| 5         | 7421.5          | 62.15          | 36.26     | -45.77      | 52.64          | 74.00          | 21.36       | Vertical |
| -         | -               | -              | -         | -           | 52.64          | 54.00          | 1.36        | Vertical |
| 6         | 9275.5          | 56.42          | 38.15     | -45.14      | 49.43          | 74.00          | 24.57       | Vertical |
| -         | -               | -              | -         | -           | 49.43          | 54.00          | 4.57        | Vertical |

## FSK\_50kbps-902.2MHz- Horizontal



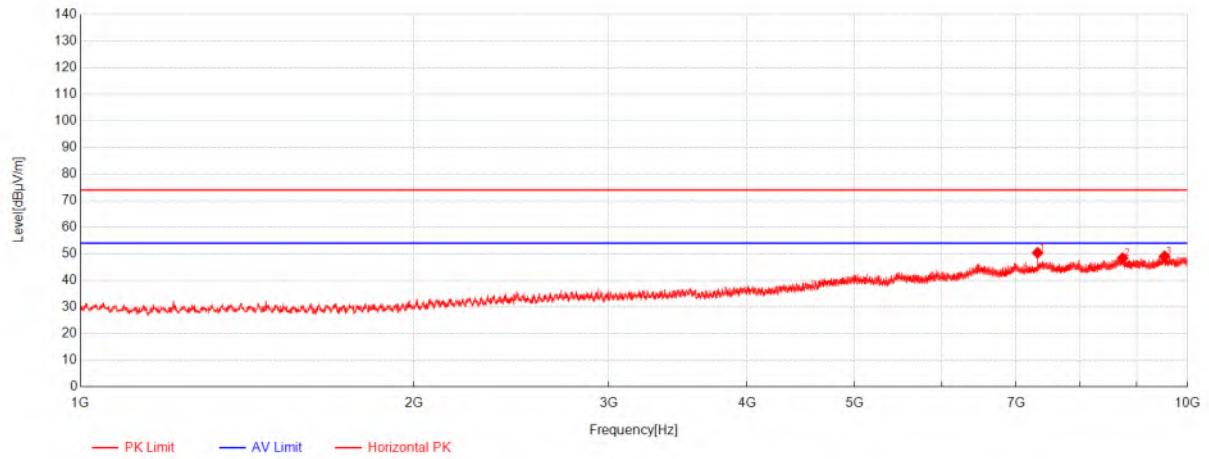
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 5527.75         | 59.32          | 31.99     | -47.04      | 44.27          | 74.00          | 29.73       | Horizontal |
| -         | -               | -              | -         | -           | 44.27          | 54.00          | 9.73        | Horizontal |
| 2         | 7217.5          | 60.26          | 36.27     | -47.22      | 49.31          | 74.00          | 24.69       | Horizontal |
| -         | -               | -              | -         | -           | 49.31          | 54.00          | 4.69        | Horizontal |
| 3         | 9503.5          | 56.03          | 38.33     | -44.13      | 50.23          | 74.00          | 23.77       | Horizontal |
| -         | -               | -              | -         | -           | 50.23          | 54.00          | 3.77        | Horizontal |

## FSK\_50kbps-902.2MHz- Vertical



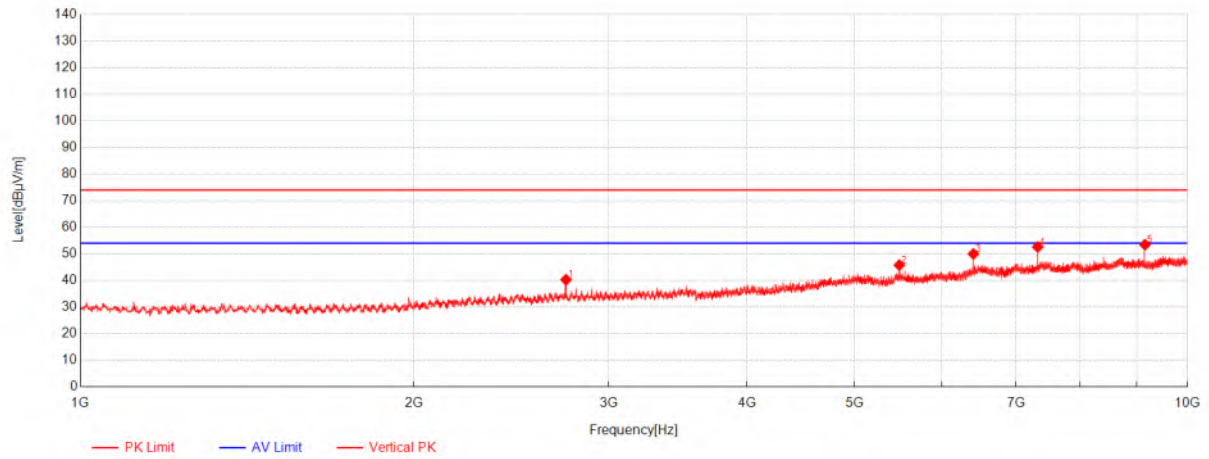
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2707            | 67.28          | 27.13     | -52.90      | 41.51          | 74.00          | 32.49       | Vertical |
| -         | -               | -              | -         | -           | 41.51          | 54.00          | 12.49       | Vertical |
| 2         | 5413.75         | 60.61          | 31.76     | -47.95      | 44.42          | 74.00          | 29.58       | Vertical |
| -         | -               | -              | -         | -           | 44.42          | 54.00          | 9.58        | Vertical |
| 3         | 6316            | 59.07          | 33.70     | -46.86      | 45.91          | 74.00          | 28.09       | Vertical |
| -         | -               | -              | -         | -           | 45.91          | 54.00          | 8.09        | Vertical |
| 4         | 7218.25         | 63.88          | 36.27     | -47.22      | 52.93          | 74.00          | 21.07       | Vertical |
| -         | -               | -              | -         | -           | 52.93          | 54.00          | 1.07        | Vertical |
| 5         | 9022            | 57.41          | 37.90     | -44.84      | 50.47          | 74.00          | 23.53       | Vertical |
| -         | -               | -              | -         | -           | 50.47          | 54.00          | 3.53        | Vertical |

## FSK\_50kbps-915MHz- Horizontal



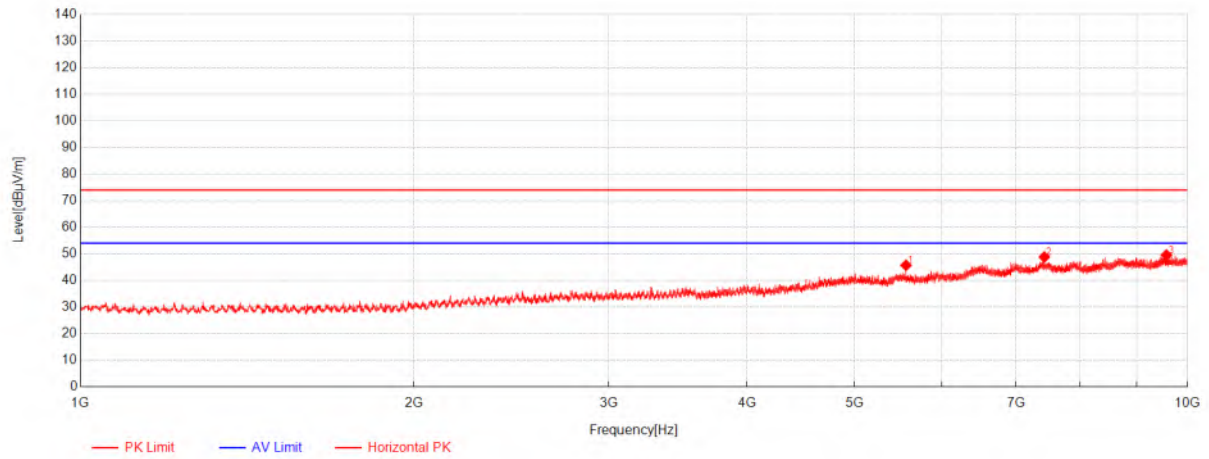
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 7320.25         | 60.87          | 36.34     | -46.85      | 50.36          | 74.00          | 23.64       | Horizontal |
| -         | -               | -              | -         | -           | 50.36          | 54.00          | 3.64        | Horizontal |
| 2         | 8735.5          | 55.37          | 37.57     | -44.56      | 48.38          | 74.00          | 25.62       | Horizontal |
| -         | -               | -              | -         | -           | 48.38          | 54.00          | 5.62        | Horizontal |
| 3         | 9531.25         | 54.63          | 38.55     | -44.13      | 49.05          | 74.00          | 24.95       | Horizontal |
| -         | -               | -              | -         | -           | 49.05          | 54.00          | 4.95        | Horizontal |

### FSK\_50kbps-915MHz- Vertical



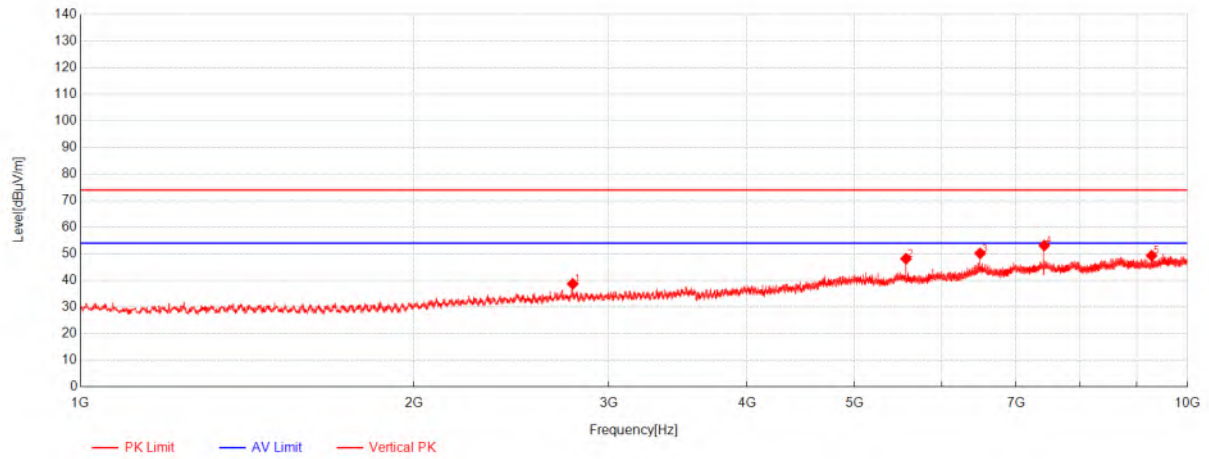
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2745.25         | 66.11          | 27.04     | -52.87      | 40.28          | 74.00          | 33.72       | Vertical |
| -         | -               | -              | -         | -           | 40.28          | 54.00          | 13.72       | Vertical |
| 2         | 5490.25         | 60.61          | 32.06     | -46.90      | 45.77          | 74.00          | 28.23       | Vertical |
| -         | -               | -              | -         | -           | 45.77          | 54.00          | 8.23        | Vertical |
| 3         | 6405.25         | 62.30          | 33.93     | -46.28      | 49.95          | 74.00          | 24.05       | Vertical |
| -         | -               | -              | -         | -           | 49.95          | 54.00          | 4.05        | Vertical |
| 4         | 7320.25         | 63.07          | 36.34     | -46.85      | 52.56          | 74.00          | 21.44       | Vertical |
| -         | -               | -              | -         | -           | 52.56          | 54.00          | 1.44        | Vertical |
| 5         | 9150.25         | 60.07          | 38.10     | -44.76      | 53.41          | 74.00          | 20.59       | Vertical |
| -         | -               | -              | -         | -           | 53.41          | 54.00          | 0.59        | Vertical |

## FSK\_50kbps-927.8MHz- Horizontal



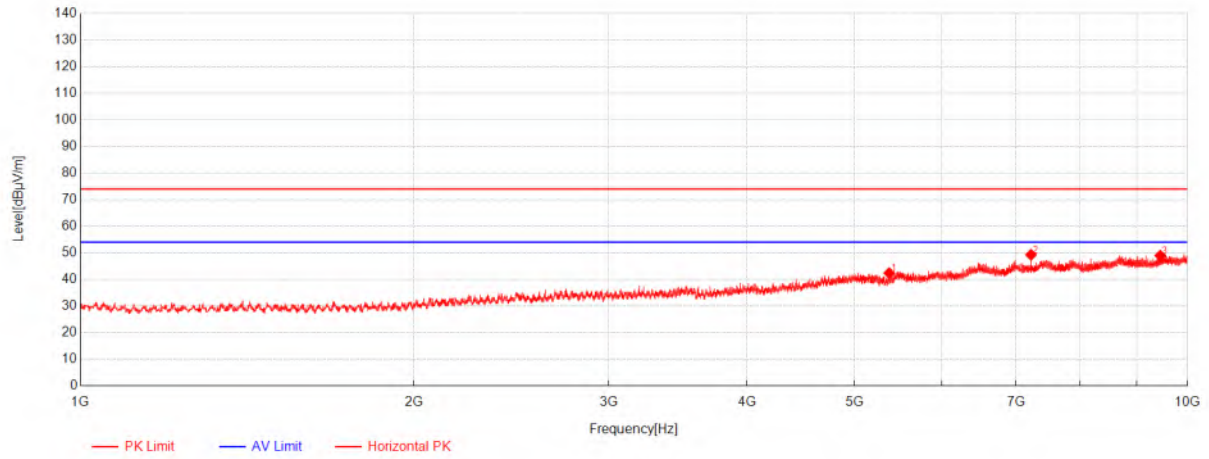
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 5566.75         | 61.12          | 31.97     | -47.42      | 45.67          | 74.00          | 28.33       | Horizontal |
| -         | -               | -              | -         | -           | 45.67          | 54.00          | 8.33        | Horizontal |
| 2         | 7422.25         | 58.27          | 36.26     | -45.77      | 48.76          | 74.00          | 25.24       | Horizontal |
| -         | -               | -              | -         | -           | 48.76          | 54.00          | 5.24        | Horizontal |
| 3         | 9568            | 55.02          | 38.63     | -44.13      | 49.52          | 74.00          | 24.48       | Horizontal |
| -         | -               | -              | -         | -           | 49.52          | 54.00          | 4.48        | Horizontal |

## FSK\_50kbps-927.8MHz- Vertical



| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2783.5          | 64.08          | 27.47     | -52.83      | 38.72          | 74.00          | 35.28       | Vertical |
| -         | -               | -              | -         | -           | 38.72          | 54.00          | 15.28       | Vertical |
| 2         | 5566.75         | 63.58          | 31.97     | -47.42      | 48.13          | 74.00          | 25.87       | Vertical |
| -         | -               | -              | -         | -           | 48.13          | 54.00          | 5.87        | Vertical |
| 3         | 6495.25         | 61.78          | 34.20     | -45.81      | 50.17          | 74.00          | 23.83       | Vertical |
| -         | -               | -              | -         | -           | 50.17          | 54.00          | 3.83        | Vertical |
| 4         | 7421.5          | 62.63          | 36.26     | -45.77      | 53.12          | 74.00          | 20.88       | Vertical |
| -         | -               | -              | -         | -           | 53.12          | 54.00          | 0.88        | Vertical |
| 5         | 9277.75         | 56.29          | 38.14     | -45.15      | 49.28          | 74.00          | 24.72       | Vertical |
| -         | -               | -              | -         | -           | 49.28          | 54.00          | 4.72        | Vertical |

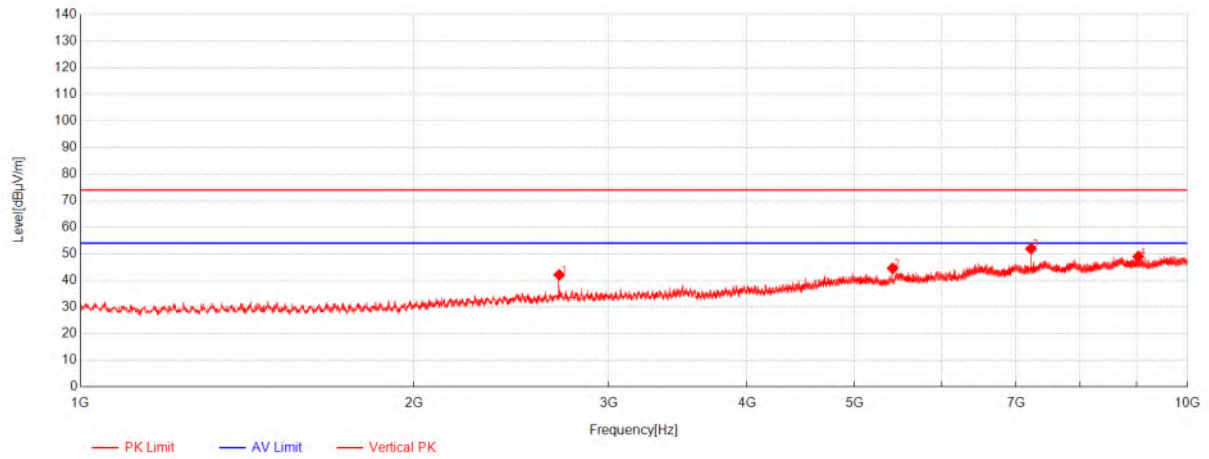
## FSK\_150kbps-902.4MHz- Horizontal



### Data List

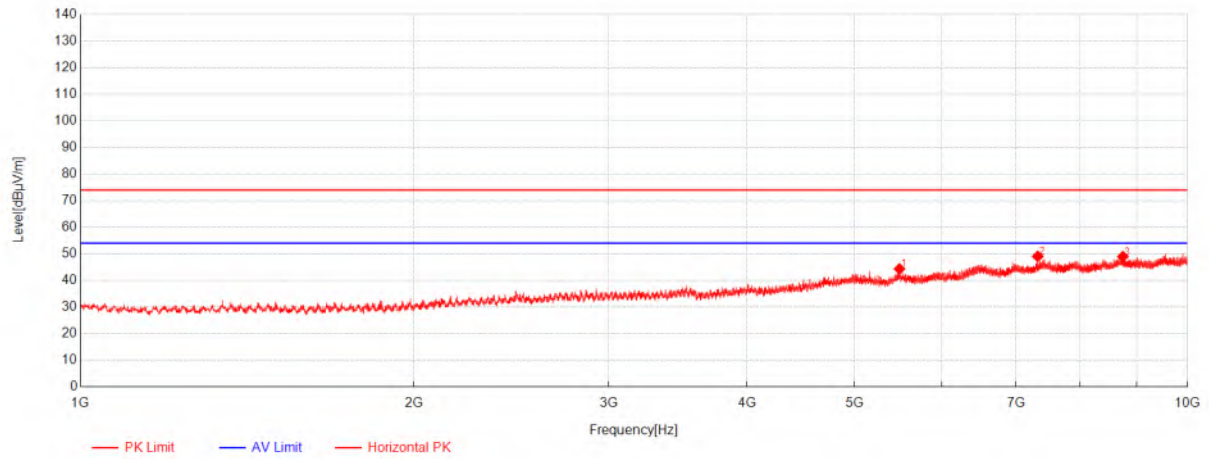
| NO. | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
|-----|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| 1   | 5376.25         | 58.94          | 31.70     | -48.25      | 42.39          | 74.00          | 31.61       | Horizontal |
| -   | -               | -              | -         | -           | 32.88          | 54.00          | 21.12       | Horizontal |
| 2   | 7219            | 60.18          | 36.28     | -47.21      | 49.25          | 74.00          | 24.75       | Horizontal |
| -   | -               | -              | -         | -           | 39.74          | 54.00          | 14.26       | Horizontal |
| 3   | 9446.5          | 55.15          | 38.59     | -44.80      | 48.94          | 74.00          | 25.06       | Horizontal |
| -   | -               | -              | -         | -           | 39.43          | 54.00          | 14.57       | Horizontal |

## FSK\_150kbps-902.4MHz- Vertical



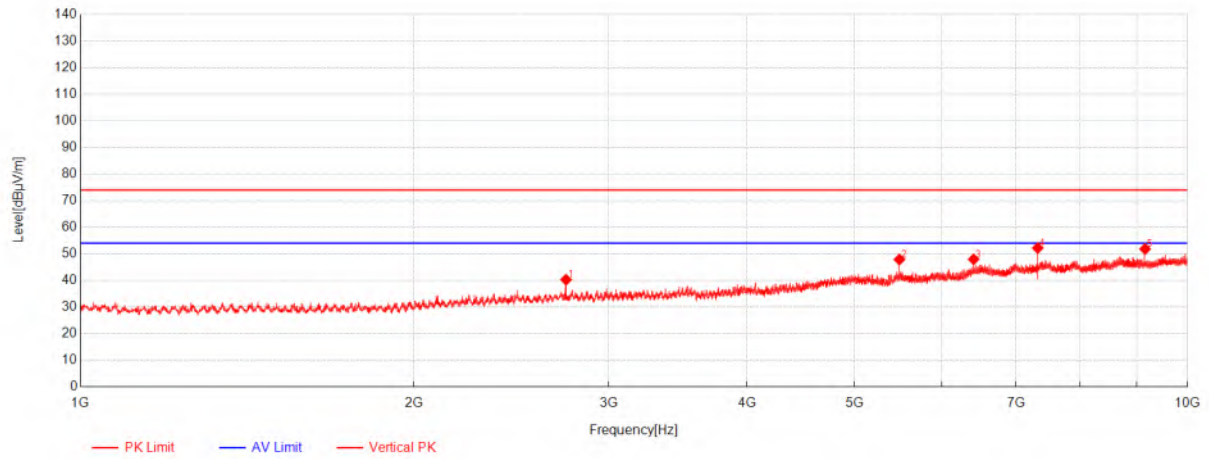
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2707            | 67.84          | 27.13     | -52.90      | 42.07          | 74.00          | 31.93       | Vertical |
| -         | -               | -              | -         | -           | 32.56          | 54.00          | 21.44       | Vertical |
| 2         | 5414.5          | 60.71          | 31.76     | -47.94      | 44.53          | 74.00          | 29.47       | Vertical |
| -         | -               | -              | -         | -           | 35.02          | 54.00          | 18.98       | Vertical |
| 3         | 7219            | 62.82          | 36.28     | -47.21      | 51.89          | 74.00          | 22.11       | Vertical |
| -         | -               | -              | -         | -           | 42.38          | 54.00          | 11.62       | Vertical |
| 4         | 9024.25         | 55.87          | 37.90     | -44.83      | 48.94          | 74.00          | 25.06       | Vertical |
| -         | -               | -              | -         | -           | 39.43          | 54.00          | 14.57       | Vertical |

## FSK\_150kbps-915.2MHz- Horizontal



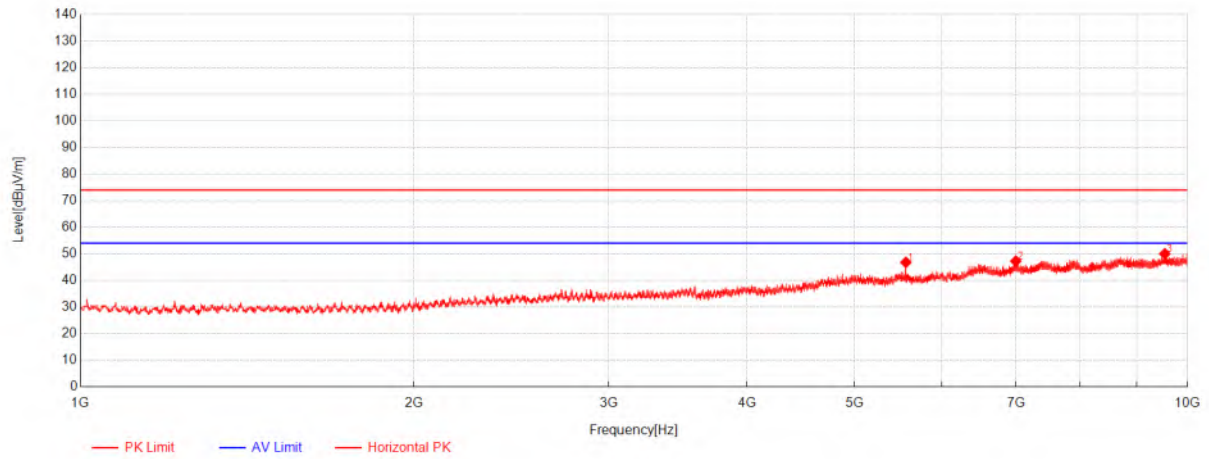
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 5491.75         | 59.11          | 32.07     | -46.88      | 44.30          | 74.00          | 29.70       | Horizontal |
| -         | -               | -              | -         | -           | 34.79          | 54.00          | 19.21       | Horizontal |
| 2         | 7321.75         | 59.51          | 36.34     | -46.83      | 49.02          | 74.00          | 24.98       | Horizontal |
| -         | -               | -              | -         | -           | 39.51          | 54.00          | 14.49       | Horizontal |
| 3         | 8740            | 55.95          | 37.58     | -44.58      | 48.95          | 74.00          | 25.05       | Horizontal |
| -         | -               | -              | -         | -           | 39.44          | 54.00          | 14.56       | Horizontal |

## FSK\_150kbps-915.2MHz- Vertical



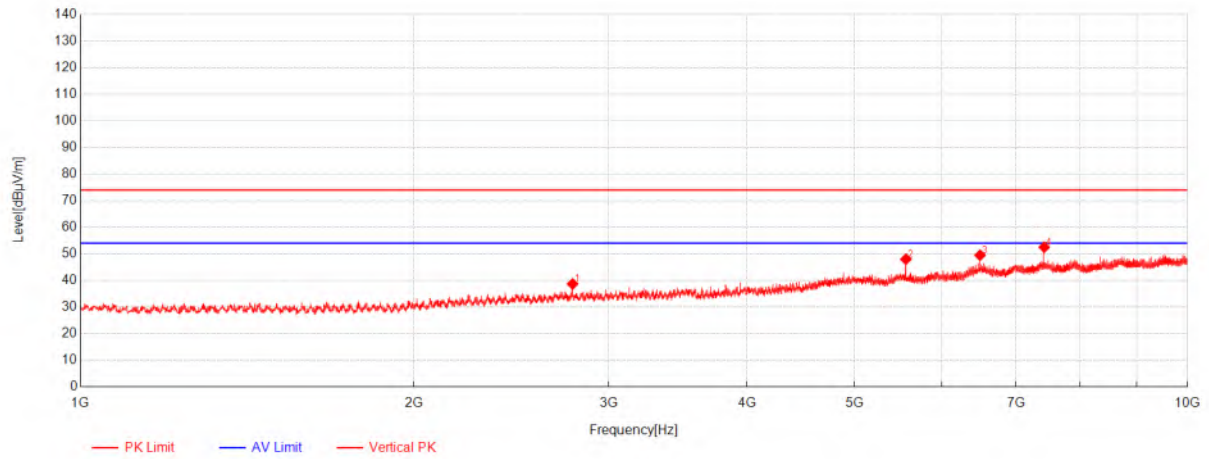
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2745.25         | 66.12          | 27.04     | -52.87      | 40.29          | 74.00          | 33.71       | Vertical |
| -         | -               | -              | -         | -           | 30.78          | 54.00          | 23.22       | Vertical |
| 2         | 5491            | 62.67          | 32.06     | -46.89      | 47.84          | 74.00          | 26.16       | Vertical |
| -         | -               | -              | -         | -           | 38.33          | 54.00          | 15.67       | Vertical |
| 3         | 6406.75         | 60.25          | 33.94     | -46.27      | 47.92          | 74.00          | 26.08       | Vertical |
| -         | -               | -              | -         | -           | 38.41          | 54.00          | 15.59       | Vertical |
| 4         | 7321.75         | 62.65          | 36.34     | -46.83      | 52.16          | 74.00          | 21.84       | Vertical |
| -         | -               | -              | -         | -           | 42.65          | 54.00          | 11.35       | Vertical |
| 5         | 9152.5          | 58.49          | 38.10     | -44.77      | 51.82          | 74.00          | 22.18       | Vertical |
| -         | -               | -              | -         | -           | 42.31          | 54.00          | 11.69       | Vertical |

## FSK\_150kbps-927.6MHz- Horizontal



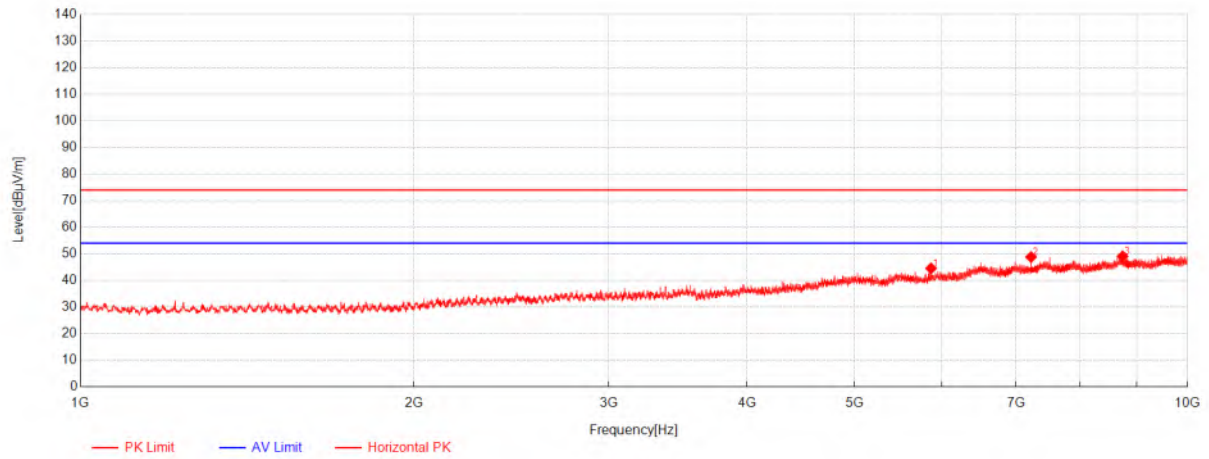
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 5565.25         | 62.22          | 31.96     | -47.41      | 46.77          | 74.00          | 27.23       | Horizontal |
| -         | -               | -              | -         | -           | 37.26          | 54.00          | 16.74       | Horizontal |
| 2         | 6994.75         | 57.73          | 35.46     | -45.94      | 47.25          | 74.00          | 26.75       | Horizontal |
| -         | -               | -              | -         | -           | 37.74          | 54.00          | 16.26       | Horizontal |
| 3         | 9535            | 55.55          | 38.58     | -44.13      | 50.00          | 74.00          | 24.00       | Horizontal |
| -         | -               | -              | -         | -           | 40.49          | 54.00          | 13.51       | Horizontal |

## FSK\_150kbps-927.6MHz- Vertical



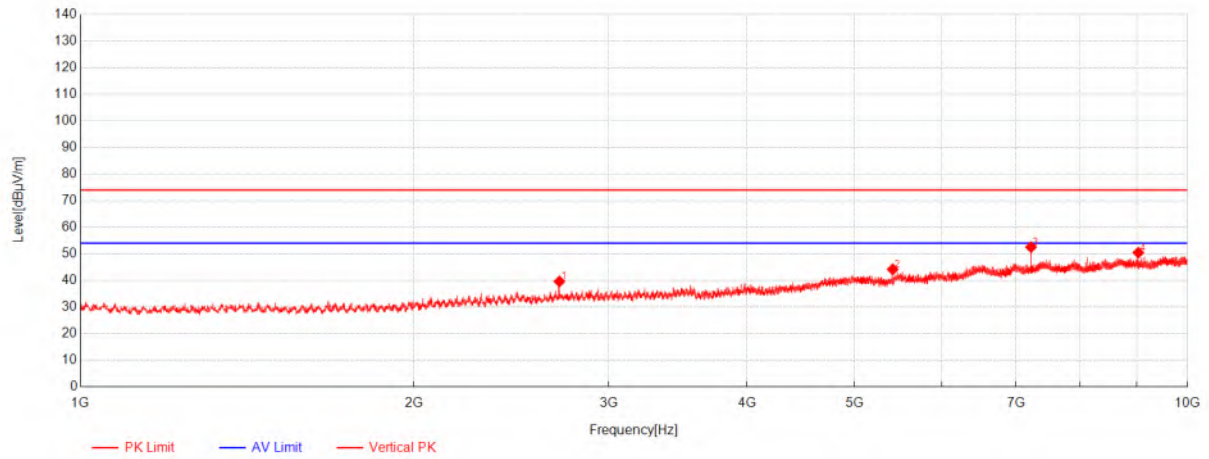
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2782.75         | 64.06          | 27.47     | -52.84      | 38.69          | 74.00          | 35.31       | Vertical |
| -         | -               | -              | -         | -           | 29.18          | 54.00          | 24.82       | Vertical |
| 2         | 5566            | 63.40          | 31.96     | -47.42      | 47.94          | 74.00          | 26.06       | Vertical |
| -         | -               | -              | -         | -           | 38.43          | 54.00          | 15.57       | Vertical |
| 3         | 6493.75         | 61.08          | 34.20     | -45.82      | 49.46          | 74.00          | 24.54       | Vertical |
| -         | -               | -              | -         | -           | 39.95          | 54.00          | 14.05       | Vertical |
| 4         | 7420.75         | 61.97          | 36.26     | -45.77      | 52.46          | 74.00          | 21.54       | Vertical |
| -         | -               | -              | -         | -           | 42.95          | 54.00          | 11.05       | Vertical |

## FSK\_250kbps-902.5MHz- Horizontal



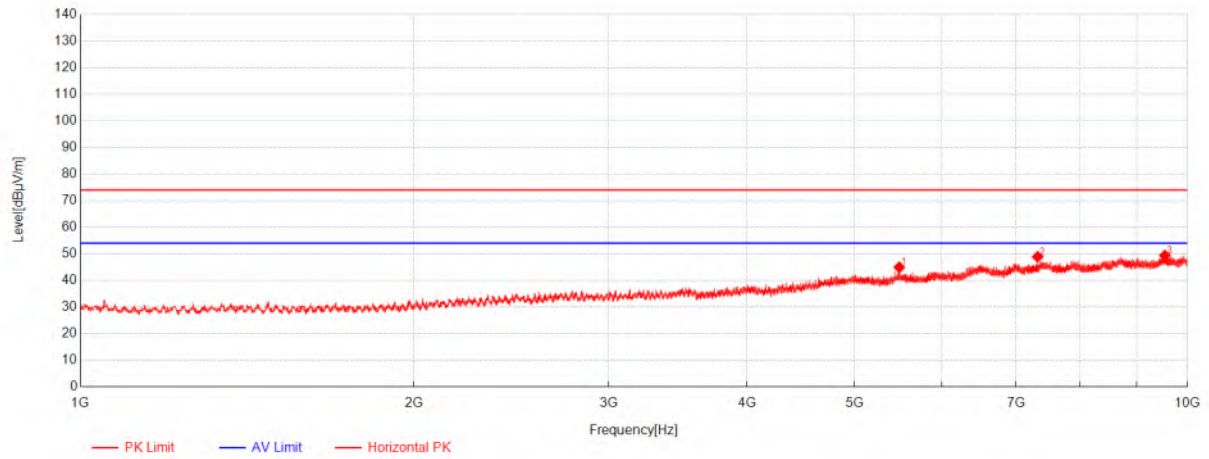
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 5864.5          | 59.77          | 32.71     | -47.96      | 44.52          | 74.00          | 29.48       | Horizontal |
| -         | -               | -              | -         | -           | 29.07          | 54.00          | 24.93       | Horizontal |
| 2         | 7220.5          | 59.69          | 36.28     | -47.21      | 48.76          | 74.00          | 25.24       | Horizontal |
| -         | -               | -              | -         | -           | 33.31          | 54.00          | 20.69       | Horizontal |
| 3         | 8734.75         | 56.05          | 37.57     | -44.55      | 49.07          | 74.00          | 24.93       | Horizontal |
| -         | -               | -              | -         | -           | 33.62          | 54.00          | 20.38       | Horizontal |

## FSK\_250kbps-902.5MHz- Vertical



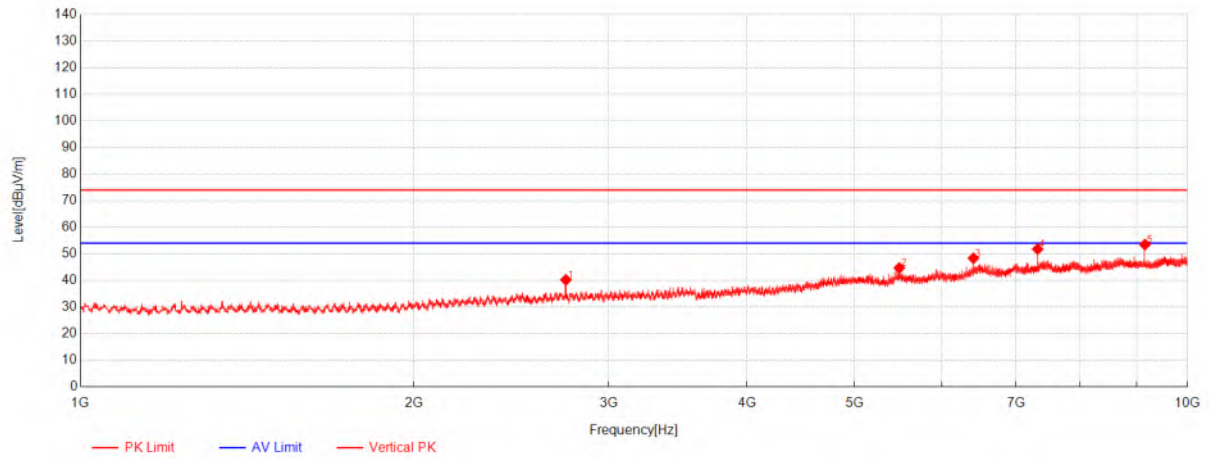
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2707.75         | 65.40          | 27.12     | -52.90      | 39.62          | 74.00          | 34.38       | Vertical |
| -         | -               | -              | -         | -           | 24.17          | 54.00          | 29.83       | Vertical |
| 2         | 5415.25         | 60.31          | 31.76     | -47.93      | 44.14          | 74.00          | 29.86       | Vertical |
| -         | -               | -              | -         | -           | 28.69          | 54.00          | 25.31       | Vertical |
| 3         | 7219.75         | 63.42          | 36.28     | -47.21      | 52.49          | 74.00          | 21.51       | Vertical |
| -         | -               | -              | -         | -           | 37.04          | 54.00          | 16.96       | Vertical |
| 4         | 9025            | 57.32          | 37.90     | -44.83      | 50.39          | 74.00          | 23.61       | Vertical |
| -         | -               | -              | -         | -           | 34.94          | 54.00          | 19.06       | Vertical |

## FSK\_250kbps-915MHz- Horizontal



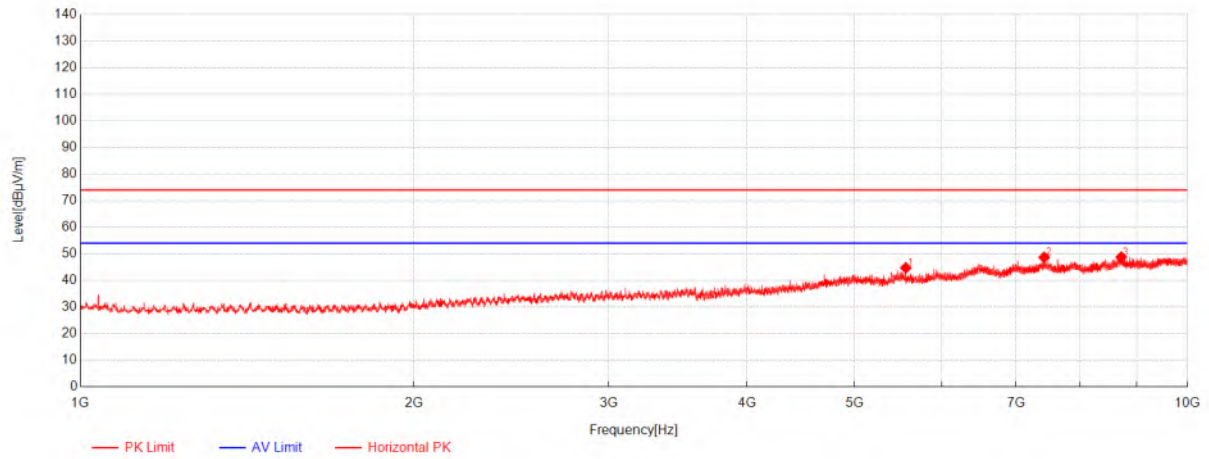
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 5489.5          | 59.77          | 32.06     | -46.91      | 44.92          | 74.00          | 29.08       | Horizontal |
| -         | -               | -              | -         | -           | 29.47          | 54.00          | 24.53       | Horizontal |
| 2         | 7320.25         | 59.37          | 36.34     | -46.85      | 48.86          | 74.00          | 25.14       | Horizontal |
| -         | -               | -              | -         | -           | 33.41          | 54.00          | 20.59       | Horizontal |
| 3         | 9537.25         | 54.87          | 38.60     | -44.13      | 49.34          | 74.00          | 24.66       | Horizontal |
| -         | -               | -              | -         | -           | 33.89          | 54.00          | 20.11       | Horizontal |

## FSK\_250kbps-915MHz- Vertical



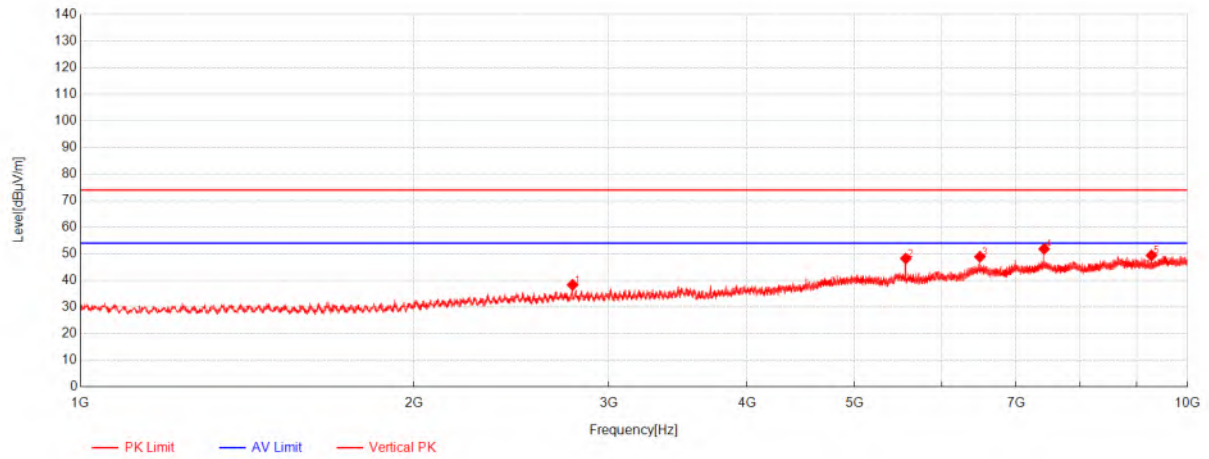
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2744.5          | 66.00          | 27.07     | -52.87      | 40.20          | 74.00          | 33.80       | Vertical |
| -         | -               | -              | -         | -           | 24.75          | 54.00          | 29.25       | Vertical |
| 2         | 5490.25         | 59.52          | 32.06     | -46.90      | 44.68          | 74.00          | 29.32       | Vertical |
| -         | -               | -              | -         | -           | 29.23          | 54.00          | 24.77       | Vertical |
| 3         | 6405.25         | 60.67          | 33.93     | -46.28      | 48.32          | 74.00          | 25.68       | Vertical |
| -         | -               | -              | -         | -           | 32.87          | 54.00          | 21.13       | Vertical |
| 4         | 7320.25         | 62.28          | 36.34     | -46.85      | 51.77          | 74.00          | 22.23       | Vertical |
| -         | -               | -              | -         | -           | 36.32          | 54.00          | 17.68       | Vertical |
| 5         | 9150.25         | 60.12          | 38.10     | -44.76      | 53.46          | 74.00          | 20.54       | Vertical |
| -         | -               | -              | -         | -           | 38.01          | 54.00          | 15.99       | Vertical |

## FSK\_250kbps-927.5MHz- Horizontal



| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 5564.5          | 60.14          | 31.96     | -47.40      | 44.70          | 74.00          | 29.30       | Horizontal |
| -         | -               | -              | -         | -           | 29.25          | 54.00          | 24.75       | Horizontal |
| 2         | 7420            | 58.15          | 36.26     | -45.76      | 48.65          | 74.00          | 25.35       | Horizontal |
| -         | -               | -              | -         | -           | 33.20          | 54.00          | 20.80       | Horizontal |
| 3         | 8710            | 55.62          | 37.52     | -44.40      | 48.74          | 74.00          | 25.26       | Horizontal |
| -         | -               | -              | -         | -           | 33.29          | 54.00          | 20.71       | Horizontal |

## FSK\_250kbps-927.5MHz- Vertical



| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 2782.75         | 63.70          | 27.47     | -52.84      | 38.33          | 74.00          | 35.67       | Vertical |
| -         | -               | -              | -         | -           | 22.88          | 54.00          | 31.12       | Vertical |
| 2         | 5564.5          | 63.67          | 31.96     | -47.40      | 48.23          | 74.00          | 25.77       | Vertical |
| -         | -               | -              | -         | -           | 32.78          | 54.00          | 21.22       | Vertical |
| 3         | 6492.25         | 60.50          | 34.20     | -45.83      | 48.87          | 74.00          | 25.13       | Vertical |
| -         | -               | -              | -         | -           | 33.42          | 54.00          | 20.58       | Vertical |
| 4         | 7420            | 61.33          | 36.26     | -45.76      | 51.83          | 74.00          | 22.17       | Vertical |
| -         | -               | -              | -         | -           | 36.38          | 54.00          | 17.62       | Vertical |
| 5         | 9275.5          | 56.37          | 38.15     | -45.14      | 49.38          | 74.00          | 24.62       | Vertical |
| -         | -               | -              | -         | -           | 33.93          | 54.00          | 20.07       | Vertical |

## 7.4 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(2)

Test Method: ANSI C63.10 (2020) Section 7.8.5

Measurement Distance: 3m

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
| 902-928              | 1 for $\geq 50$ hopping channels                       |
|                      | 0.25 for $25 \leq$ hopping channels $< 50$             |
|                      | 1 for digital modulation                               |
| 2400-2483.5          | 1 for $\geq 75$ non-overlapping hopping channels       |
|                      | 0.125 for all other frequency hopping systems          |
|                      | 1 for digital modulation                               |
| 5725-5850            | 1 for frequency hopping systems and digital modulation |

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

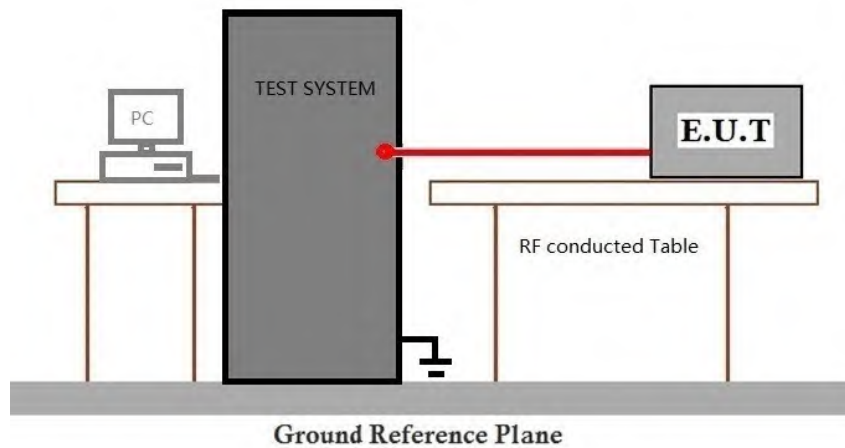
Humidity: 46.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------|
| Final test            | 02        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with CSS_125KHz modulation.  |
| Final test            | 03        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_50kbps modulation.  |
| Final test            | 04        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_150kbps modulation. |
| Final test            | 05        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_250kbps modulation. |

### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

## 7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247(a)(1)

Test Method: ANSI C63.10 (2020) Section 6.9.2

Limit:

No restriction limits

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

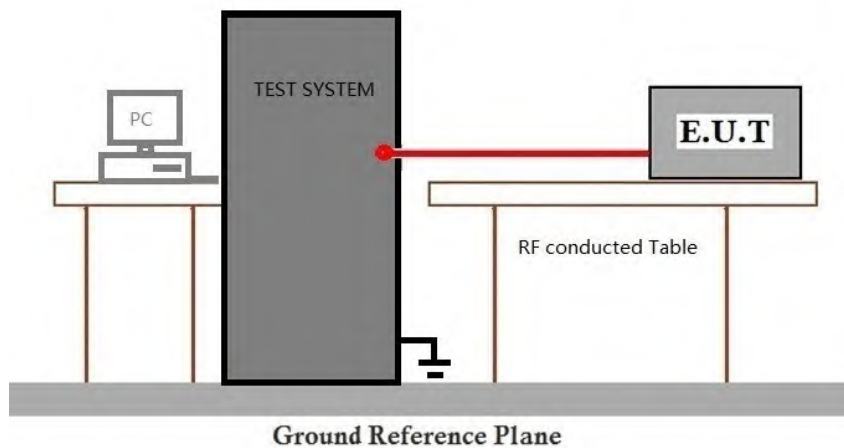
Humidity: 46.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------|
| Final test            | 02        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with CSS_125KHz modulation.  |
| Final test            | 03        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_50kbps modulation.  |
| Final test            | 04        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_150kbps modulation. |
| Final test            | 05        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_250kbps modulation. |

### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.6 Carrier Frequencies Separation

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)

Test Method: ANSI C63.10 (2020) Section 7.8.2

Limit:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

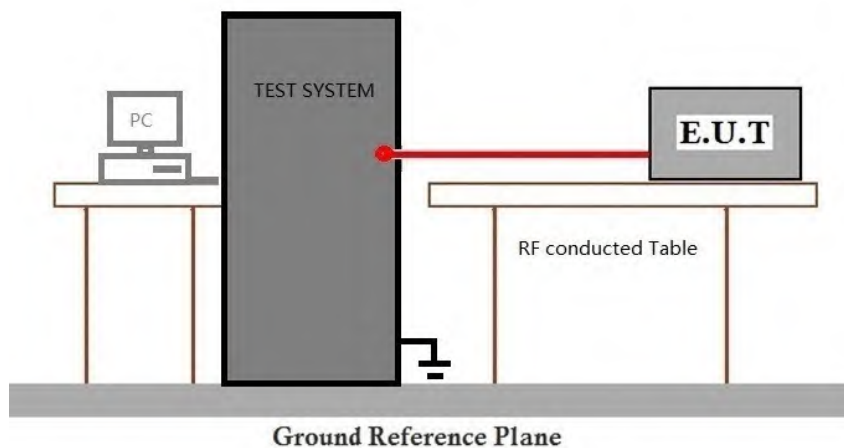
Humidity: 46.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                           |
|-----------------------|-----------|---------------------------------------------------------------------------------------|
| Final test            | 06        | TX_Hop mode(CSS_125KHz)_Keep the EUT in frequency hopping mode with GFSK modulation.  |
| Final test            | 07        | TX_Hop mode(FSK_50kbps)_Keep the EUT in frequency hopping mode with GFSK modulation.  |
| Final test            | 08        | TX_Hop mode(FSK_150kbps)_Keep the EUT in frequency hopping mode with GFSK modulation. |
| Final test            | 09        | TX_Hop mode(FSK_250kbps)_Keep the EUT in frequency hopping mode with GFSK modulation. |

### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.7 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(i)

Test Method: ANSI C63.10 (2020) Section 7.8.3

Limit:

| Frequency range(MHz) | Number of hopping channels (minimum) |
|----------------------|--------------------------------------|
| 902-928              | 50 for 20dB bandwidth <250kHz        |
|                      | 25 for 20dB bandwidth ≥250kHz        |
| 2400-2483.5          | 15                                   |
| 5725-5850            | 75                                   |

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

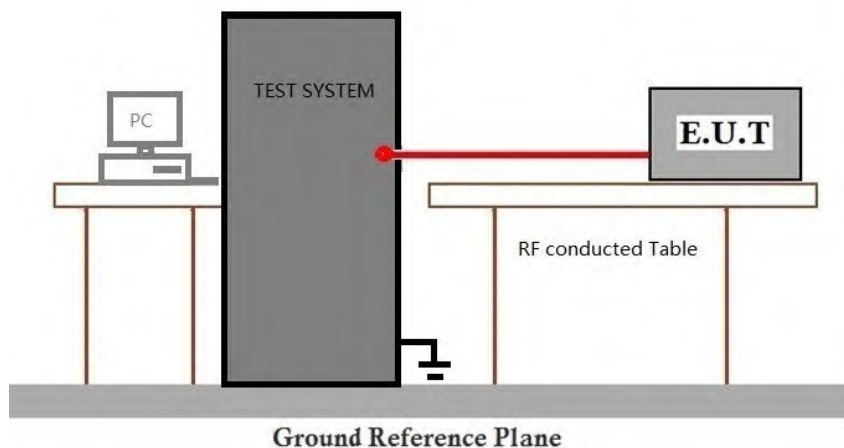
Humidity: 46.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.7.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                           |
|-----------------------|-----------|---------------------------------------------------------------------------------------|
| Final test            | 06        | TX_Hop mode(CSS_125KHz)_Keep the EUT in frequency hopping mode with GFSK modulation.  |
| Final test            | 07        | TX_Hop mode(FSK_50kbps)_Keep the EUT in frequency hopping mode with GFSK modulation.  |
| Final test            | 08        | TX_Hop mode(FSK_150kbps)_Keep the EUT in frequency hopping mode with GFSK modulation. |
| Final test            | 09        | TX_Hop mode(FSK_250kbps)_Keep the EUT in frequency hopping mode with GFSK modulation. |

### 7.7.3 Test Setup Diagram





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#### **7.7.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

## 7.8 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(i)

Test Method: ANSI C63.10 (2020) Section 7.8.4

Limit:

| Frequency(MHz) | Limit                                                                     |
|----------------|---------------------------------------------------------------------------|
| 902-928        | 0.4S within a 20S period(20dB bandwidth<250kHz)                           |
|                | 0.4S within a 10S period(20dB bandwidth≥250kHz)                           |
| 2400-2483.5    | 0.4S within a period of 0.4S multiplied by the number of hopping channels |
| 5725-5850      | 0.4S within a 30S period                                                  |

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

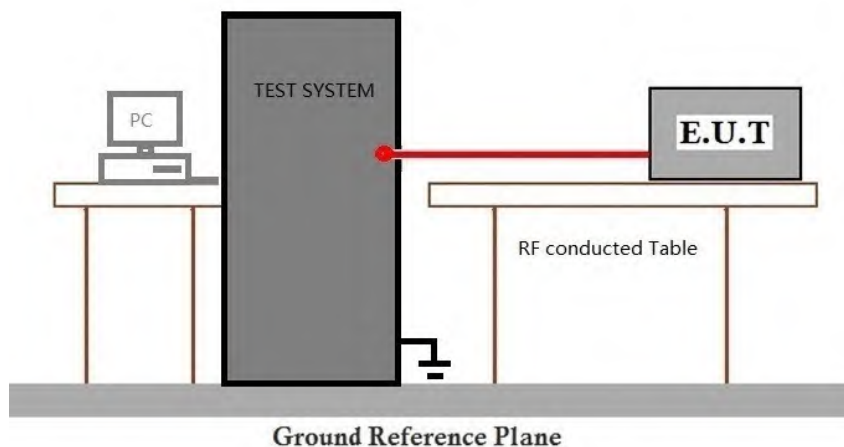
Humidity: 46.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                           |
|-----------------------|-----------|---------------------------------------------------------------------------------------|
| Final test            | 06        | TX_Hop mode(CSS_125KHz)_Keep the EUT in frequency hopping mode with GFSK modulation.  |
| Final test            | 07        | TX_Hop mode(FSK_50kbps)_Keep the EUT in frequency hopping mode with GFSK modulation.  |
| Final test            | 08        | TX_Hop mode(FSK_150kbps)_Keep the EUT in frequency hopping mode with GFSK modulation. |
| Final test            | 09        | TX_Hop mode(FSK_250kbps)_Keep the EUT in frequency hopping mode with GFSK modulation. |

### 7.8.3 Test Setup Diagram





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#### **7.8.4 Measurement Procedure and Data**

Please Refer to Appendix for Details

## 7.9 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 7.8.7.2

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

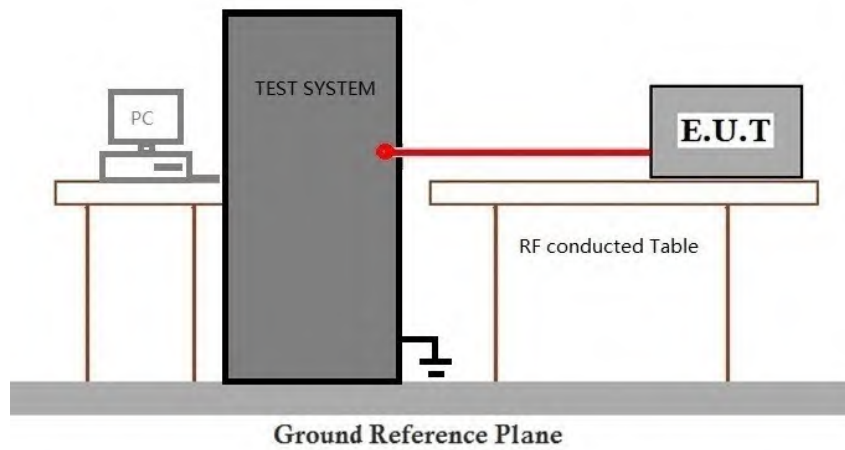
Humidity: 46.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.9.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                 |
|-----------------------|-----------|---------------------------------------------------------------------------------------------|
| Final test            | 02        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with CSS_125KHz modulation.  |
| Final test            | 03        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_50kbps modulation.  |
| Final test            | 04        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_150kbps modulation. |
| Final test            | 05        | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_250kbps modulation. |
| Final test            | 06        | TX_Hop mode(CSS_125KHz)_Keep the EUT in frequency hopping mode with GFSK modulation.        |
| Final test            | 07        | TX_Hop mode(FSK_50kbps)_Keep the EUT in frequency hopping mode with GFSK modulation.        |
| Final test            | 08        | TX_Hop mode(FSK_150kbps)_Keep the EUT in frequency hopping mode with GFSK modulation.       |
| Final test            | 09        | TX_Hop mode(FSK_250kbps)_Keep the EUT in frequency hopping mode with GFSK modulation.       |

## 7.9.3 Test Setup Diagram



## 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.10 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 7.8.7

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

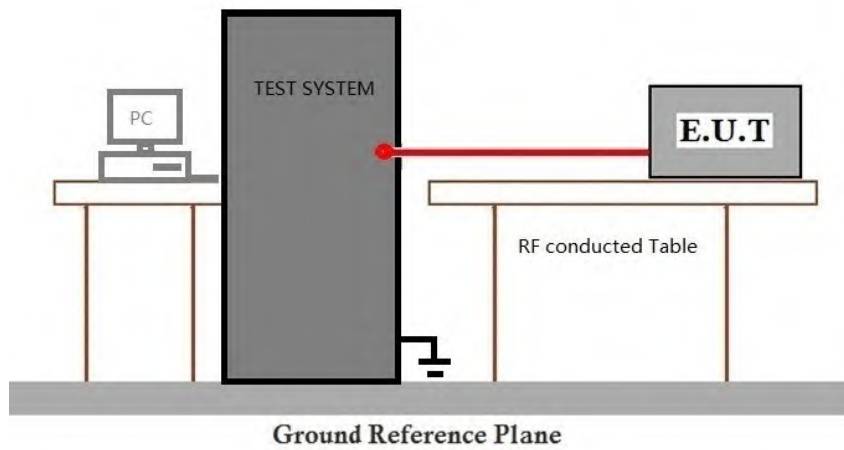
Humidity: 46.2 % RH

Atmospheric Pressure: 1010 mbar

### 7.10.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                 |
|--------------------------|--------------|---------------------------------------------------------------------------------------------|
| Final test               | 02           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with CSS_125KHz modulation.  |
| Final test               | 03           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_50kbps modulation.  |
| Final test               | 04           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_150kbps modulation. |
| Final test               | 05           | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with FSK_250kbps modulation. |

## 7.10.3 Test Setup Diagram



## 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## **8 Test Setup Photo**

Refer to Appendix - Test Setup Photo for KSCR2606001325AT

## **9 EUT Constructional Details (EUT Photos)**

Refer to Appendix\_Photographs of EUT Constructional Details for KSCR2606001325AT



## 10 Appendix

### CSS\_125KHz

#### 1. Bandwidth

##### 1.1 Test Result

##### 1.1.1 OBW

| Mode       | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------|---------|-----------------|-----|------------------------------|-------|---------|
|            |         |                 |     | Result                       | Limit |         |
| CSS_125KHz | SISO    | 902.4           | 1   | 0.120                        | /     | Pass    |
|            |         | 915             | 1   | 0.124                        | /     | Pass    |
|            |         | 927.6           | 1   | 0.124                        | /     | Pass    |

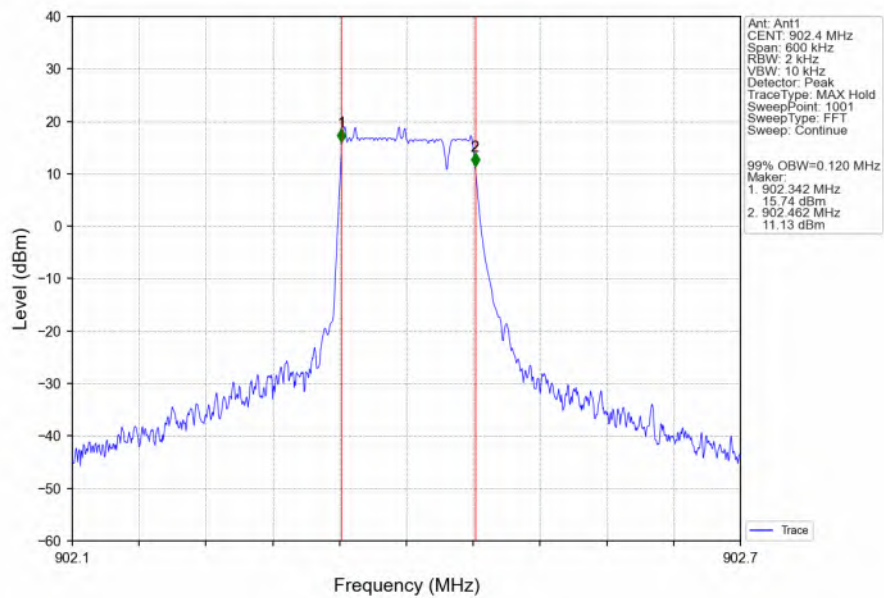
##### 1.1.2 20dB BW

| Mode       | TX Type | Frequency (MHz) | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|------------|---------|-----------------|-----|----------------------|-------|---------|
|            |         |                 |     | Result               | Limit |         |
| CSS_125KHz | SISO    | 902.4           | 1   | 0.130                | /     | Pass    |
|            |         | 915             | 1   | 0.135                | /     | Pass    |
|            |         | 927.6           | 1   | 0.137                | /     | Pass    |

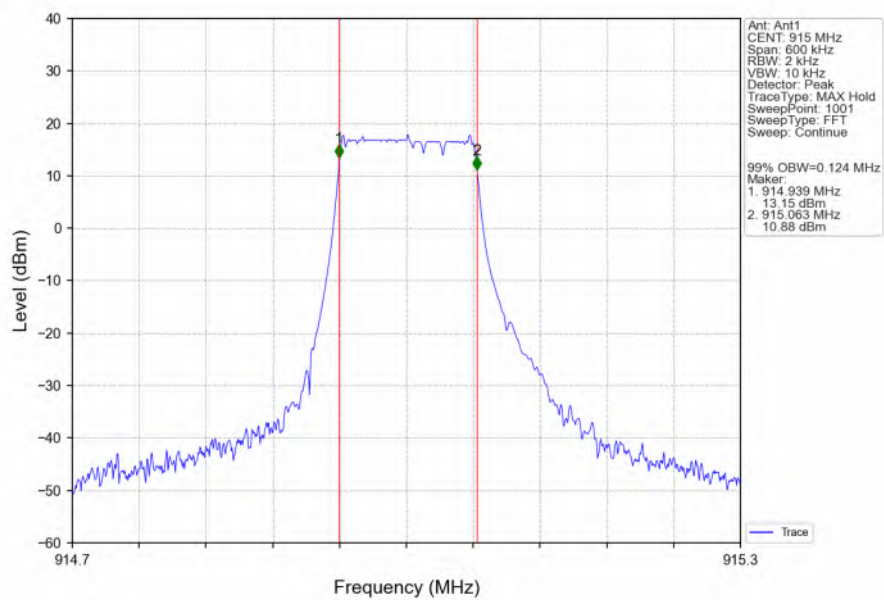
## 1.2 Test Graph

### 1.2.1 OBW

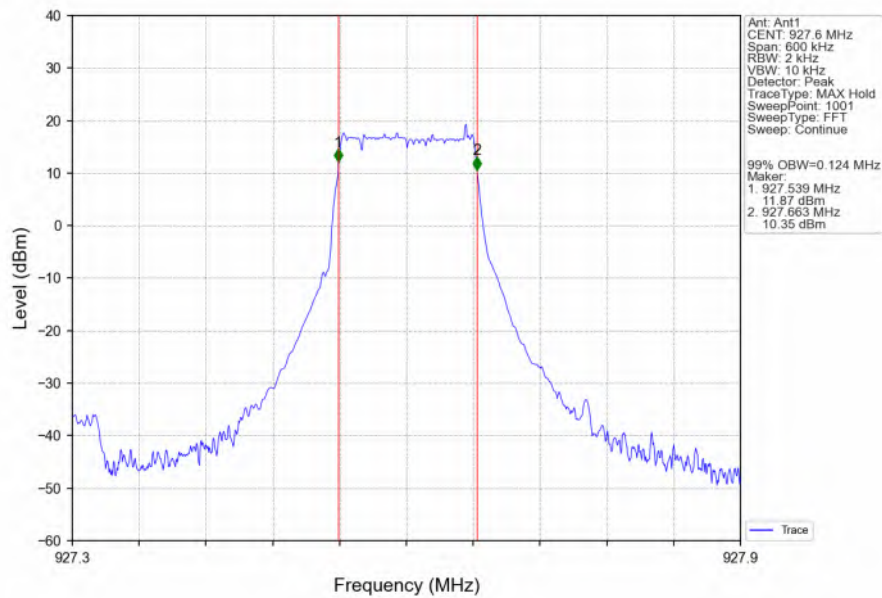
CSS\_125KHz\_LCH\_902.4MHz\_Ant1\_NTNV



CSS\_125KHz\_MCH\_915MHz\_Ant1\_NTNV

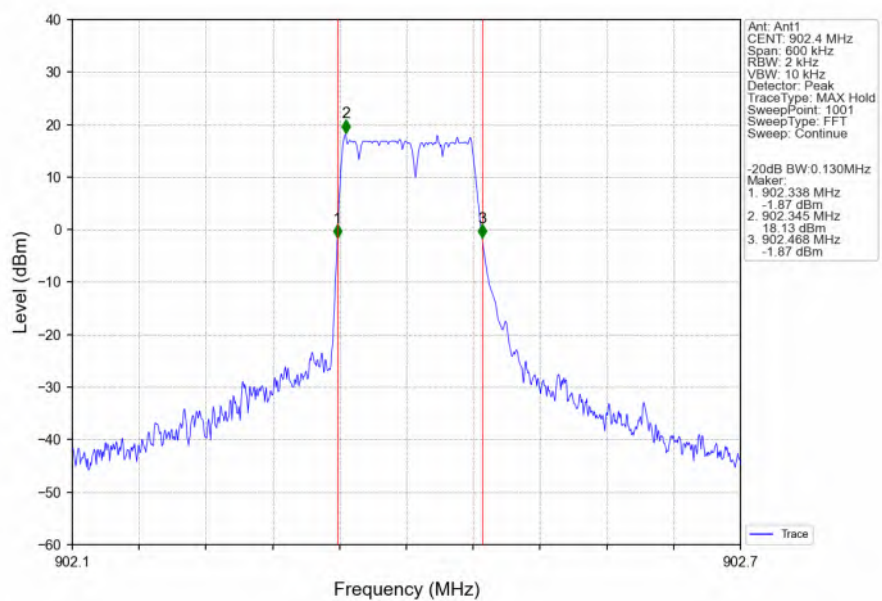


CSS\_125KHz\_HCH\_927.6MHz\_Ant1\_NTNV

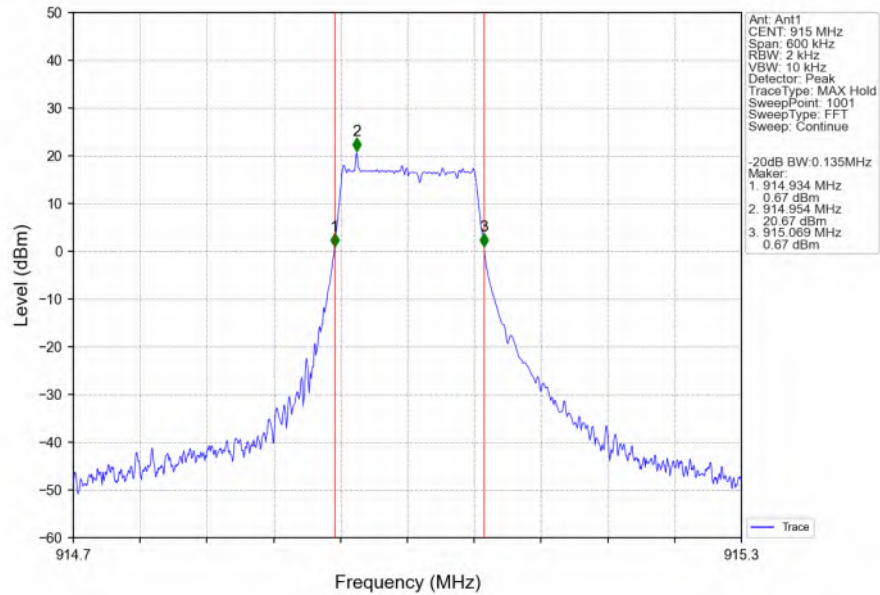


## 1.2.2 20dB BW

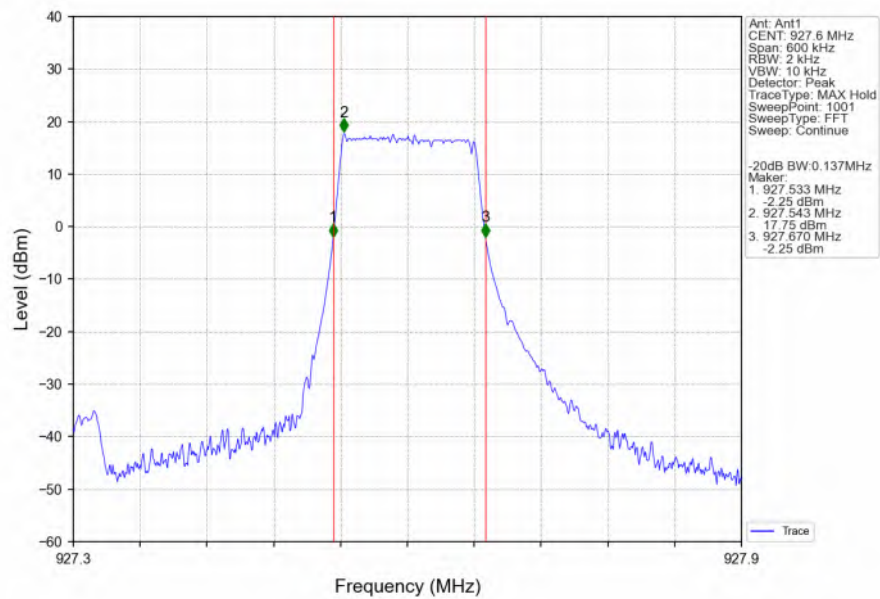
CSS\_125KHz\_LCH\_902.4MHz\_Ant1\_NTNV



CSS\_125KHz\_MCH\_915MHz\_Ant1\_NTNV



CSS\_125KHz\_HCH\_927.6MHz\_Ant1\_NTNV





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## 2. Maximum Conducted Output Power

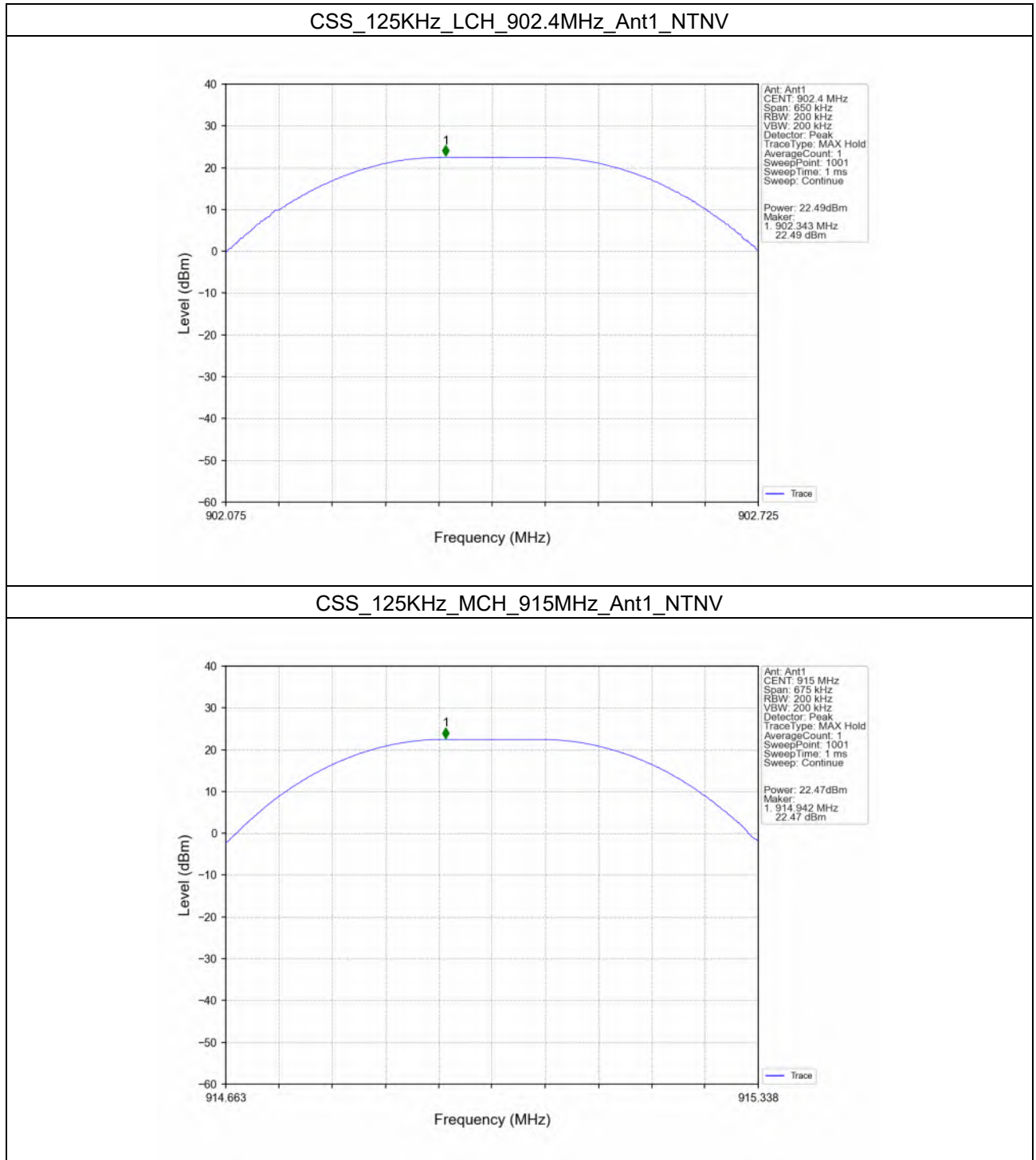
### 2.1 Test Result

#### 2.1.1 Power

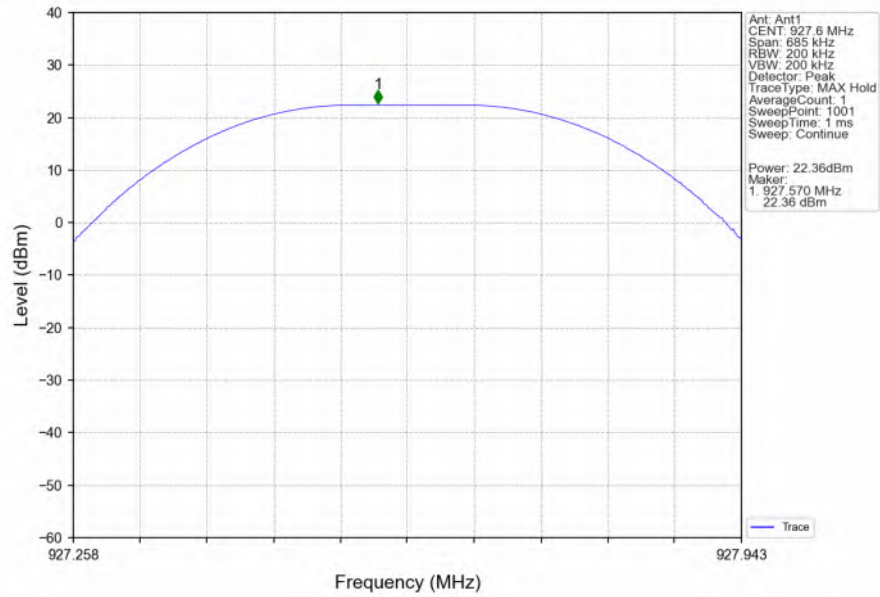
| Mode                                | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       | Verdict |
|-------------------------------------|---------|-----------------|----------------------------------------------|-------|---------|
|                                     |         |                 | ANT1                                         | Limit |         |
| CSS_125KHz                          | SISO    | 902.4           | 22.49                                        | <=30  | Pass    |
|                                     |         | 915             | 22.47                                        | <=30  | Pass    |
|                                     |         | 927.6           | 22.36                                        | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: 1.50dBi; |         |                 |                                              |       |         |

## 2.2 Test Graph

### 2.2.1 Power



CSS\_125KHz\_HCH\_927.6MHz\_Ant1\_NTNV





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### 3. Carrier Frequency Separation

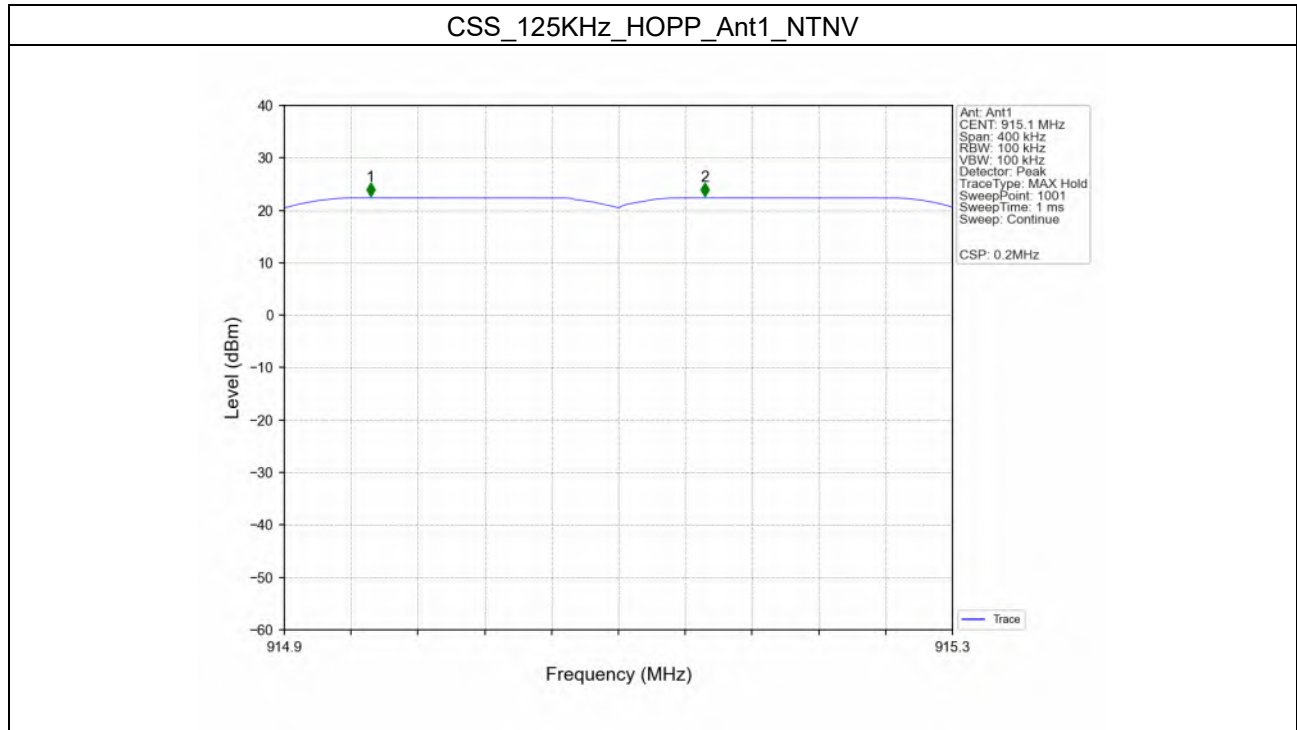
#### 3.1 Test Result

##### 3.1.1 Ant1

| Ant1       |         |                 |                          |                      |              |         |
|------------|---------|-----------------|--------------------------|----------------------|--------------|---------|
| Mode       | TX Type | Frequency (MHz) | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| CSS_125KHz | SISO    | HOPP            | 0.200                    | 0.137                | $\geq 0.137$ | Pass    |

## 3.2 Test Graph

### 3.2.1 Ant1





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## 4. Number of Hopping Frequencies

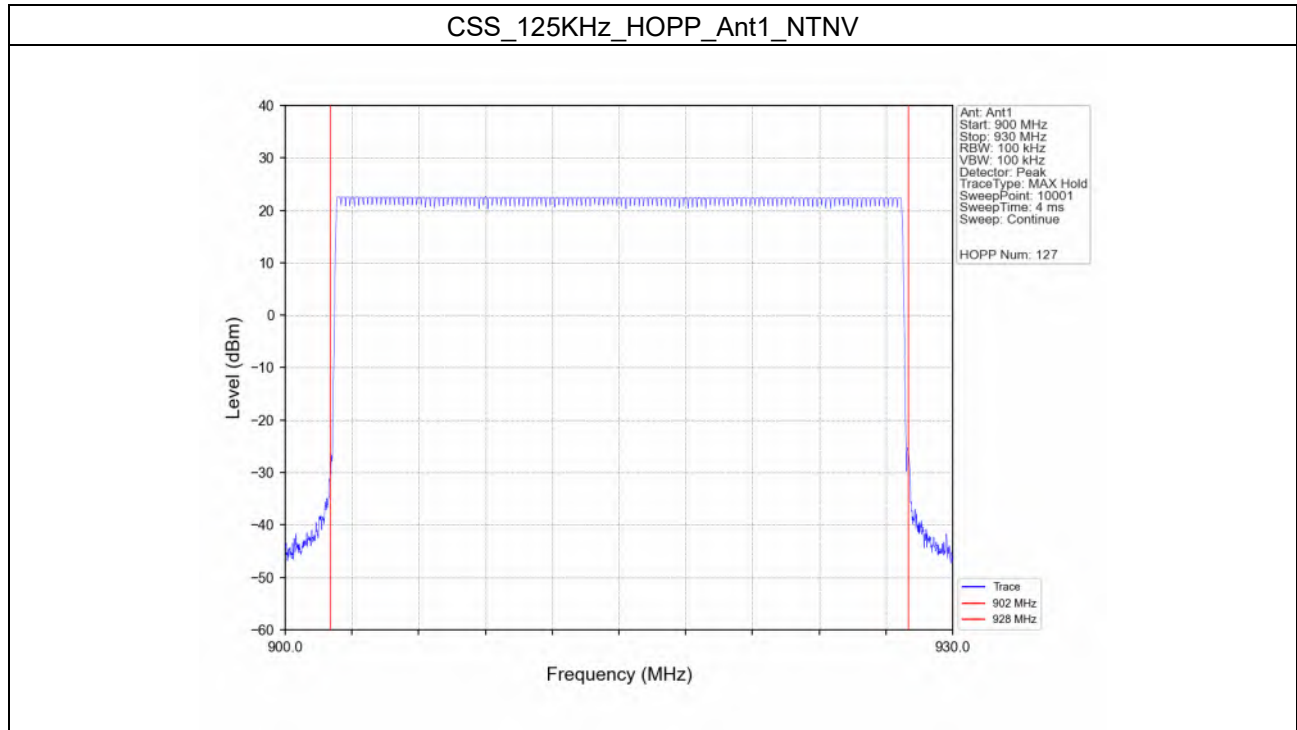
### 4.1 Test Result

#### 4.1.1 HoppNum

| Mode       | TX<br>Type | Frequency<br>(MHz) | Num of Hopping Frequencies |       | Verdict |
|------------|------------|--------------------|----------------------------|-------|---------|
|            |            |                    | ANT1                       | Limit |         |
| CSS_125KHz | SISO       | HOPP               | 127                        | >=50  | Pass    |

## 4.2 Test Graph

### 4.2.1 HoppNum





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## 5. Time of Occupancy (Dwell Time)

### 5.1 Test Result

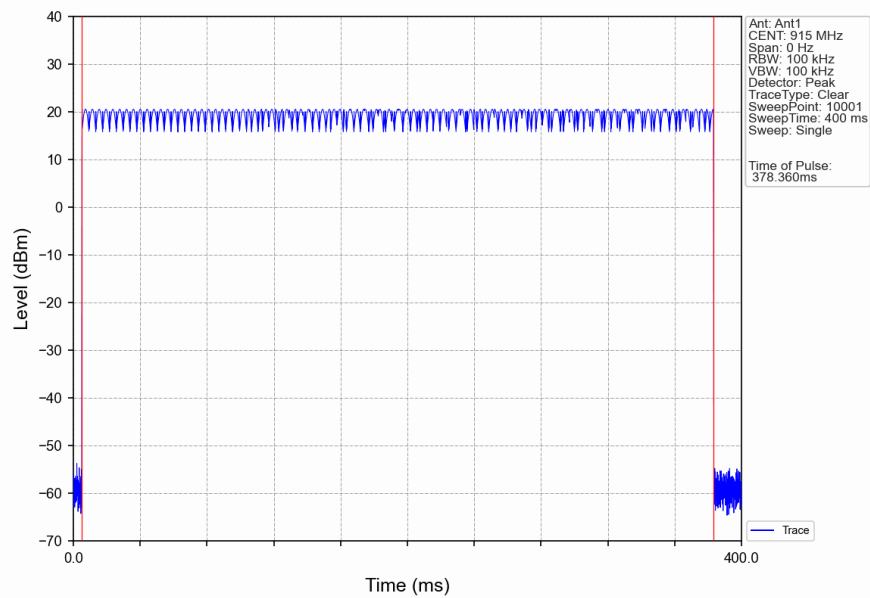
#### 5.1.1 Ant1

| Ant1       |         |                 |                               |                        |                                    |                 |            |         |
|------------|---------|-----------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode       | TX Type | Frequency (MHz) | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| CSS_125KHz | SISO    | HOPP            | 378.360                       | 20.000                 | 1                                  | 378.360         | <=400      | Pass    |

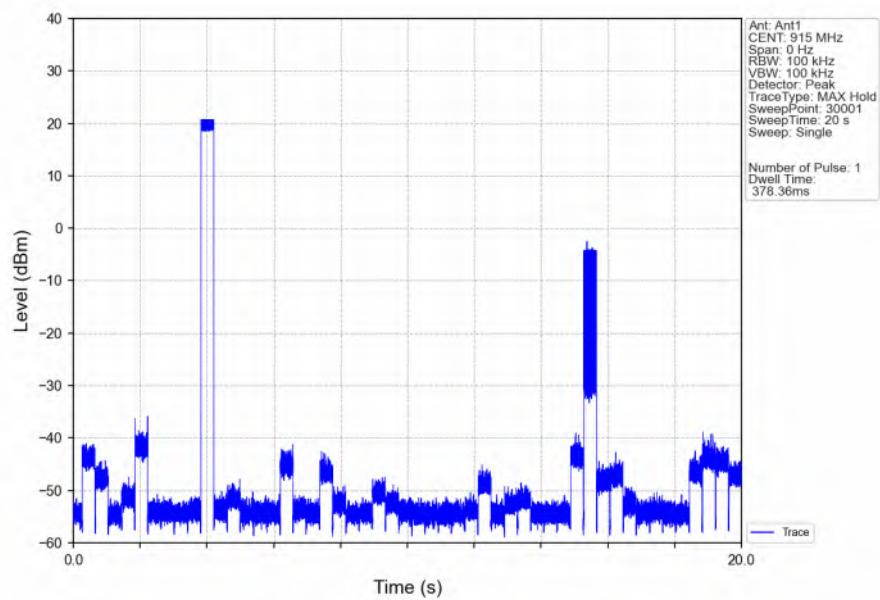
## 5.2 Test Graph

### 5.2.1 Ant1

CSS\_125KHz\_HOPP\_Ant1\_NTNV



CSS\_125KHz\_HOPP\_Ant1\_NTNV





## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Test Result

#### 6.1.1 Ref

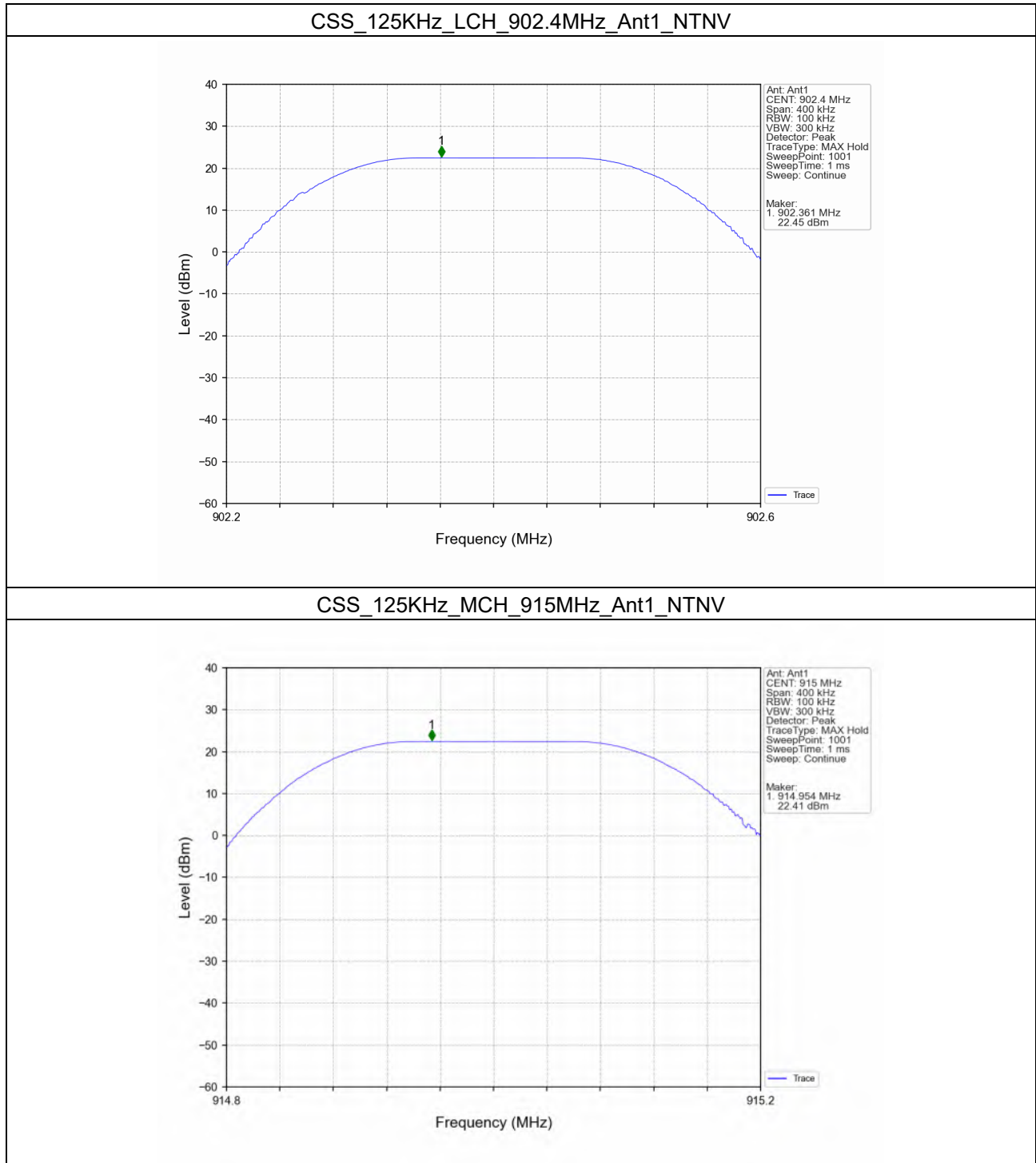
| Mode       | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------------|---------|-----------------|-----|--------------------------|
| CSS_125KHz | SISO    | 902.4           | 1   | 22.45                    |
|            |         | 915             | 1   | 22.41                    |
|            |         | 927.6           | 1   | 22.31                    |

#### 6.1.2 CSE

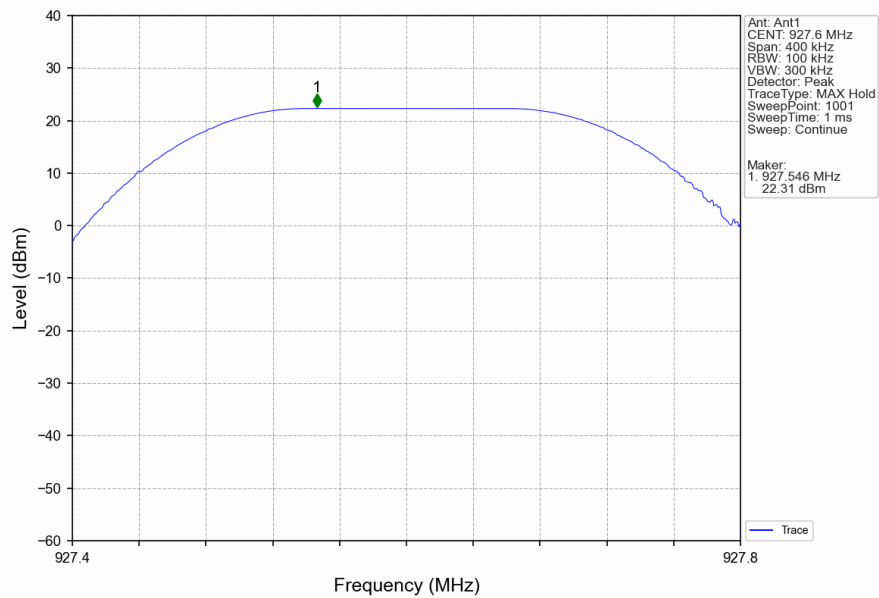
| Mode       | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------------|---------|-----------------|-----|--------------------------|-------------|---------|
| CSS_125KHz | SISO    | 902.4           | 1   | 22.45                    | 2.45        | Pass    |
|            |         | 915             | 1   | 22.45                    | 2.45        | Pass    |
|            |         | 927.6           | 1   | 22.45                    | 2.45        | Pass    |
|            |         | HOPP            | 1   | 22.45                    | 2.45        | Pass    |
|            |         |                 |     | 22.45                    | 2.45        | Pass    |

## 6.2 Test Graph

### 6.2.1 Ref

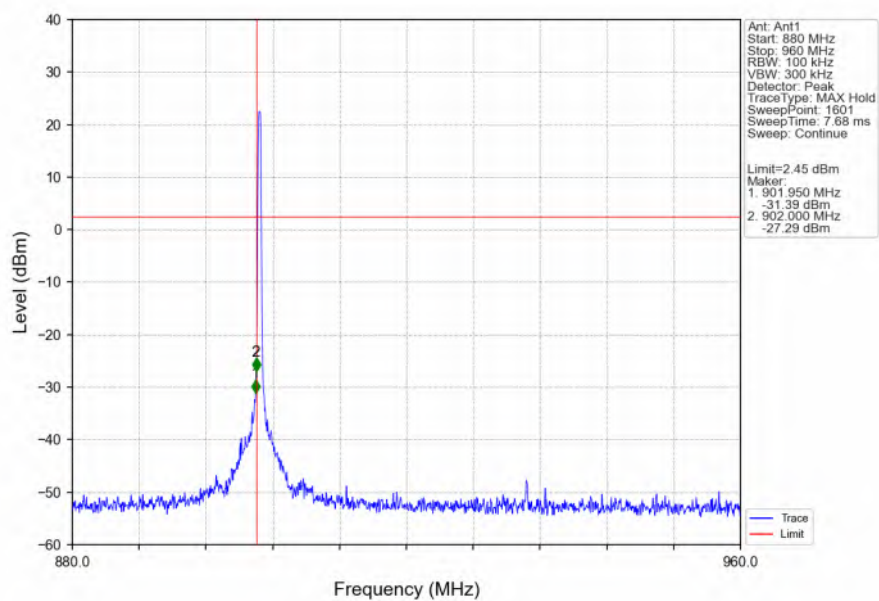


CSS\_125KHz\_HCH\_927.6MHz\_Ant1\_NTNV

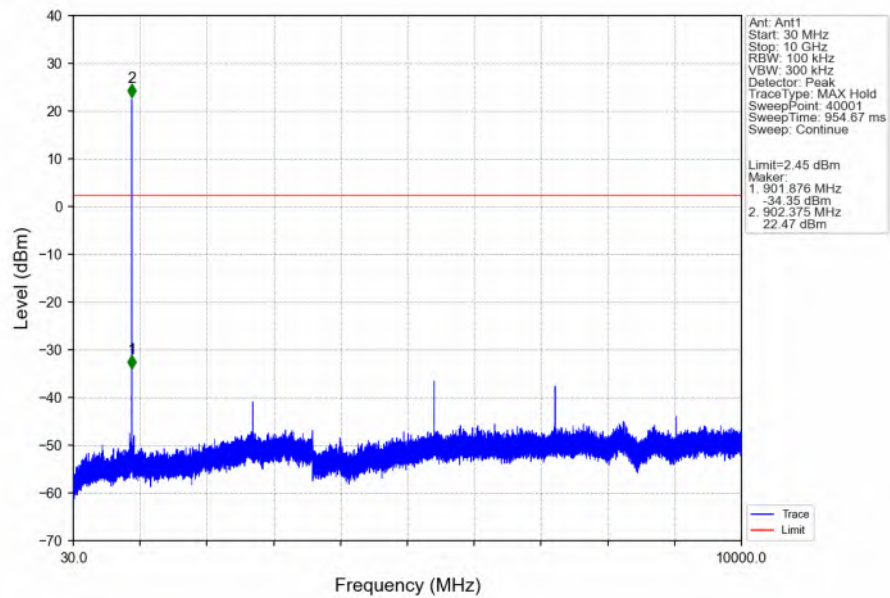


## 6.2.2 CSE

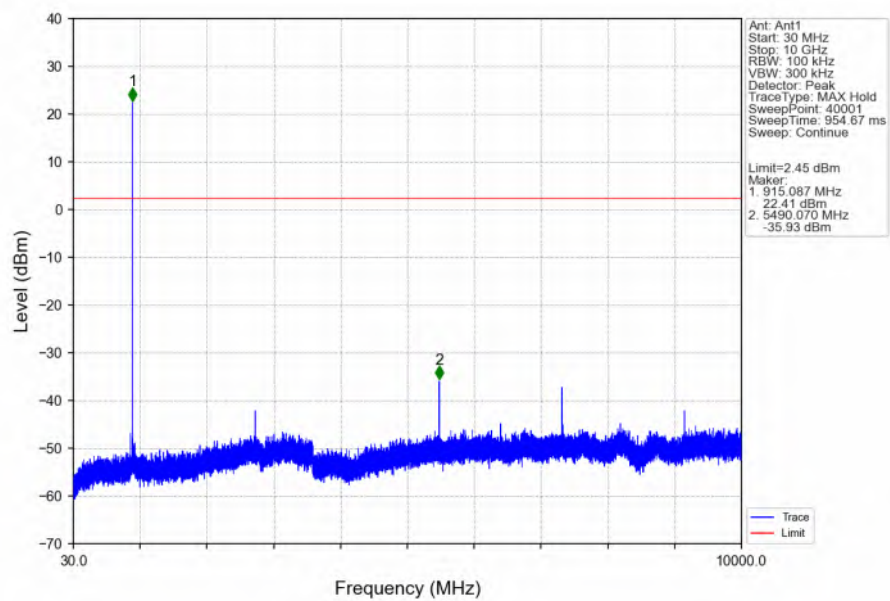
CSS\_125KHz\_LCH\_902.4MHz\_Ant1\_NTNV



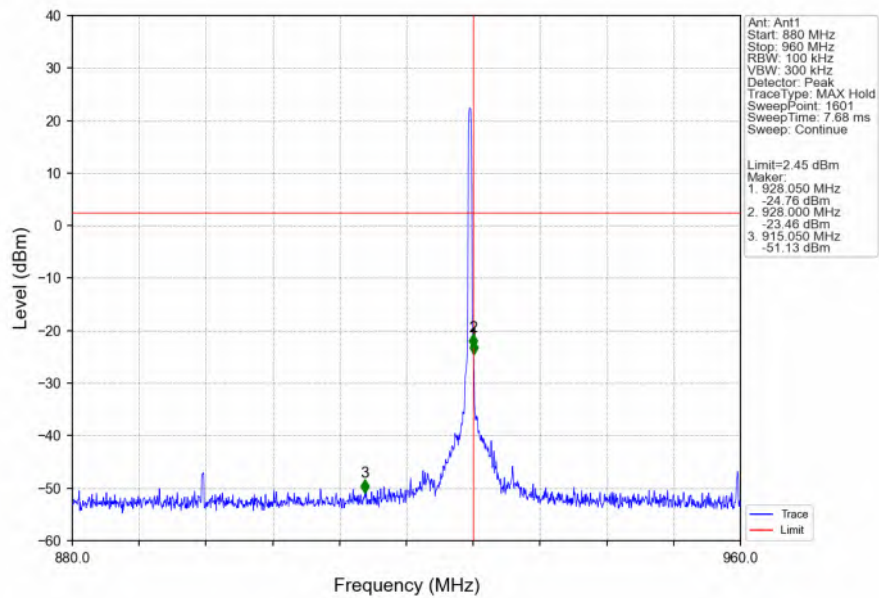
CSS\_125KHz\_LCH\_902.4MHz\_Ant1\_NTNV



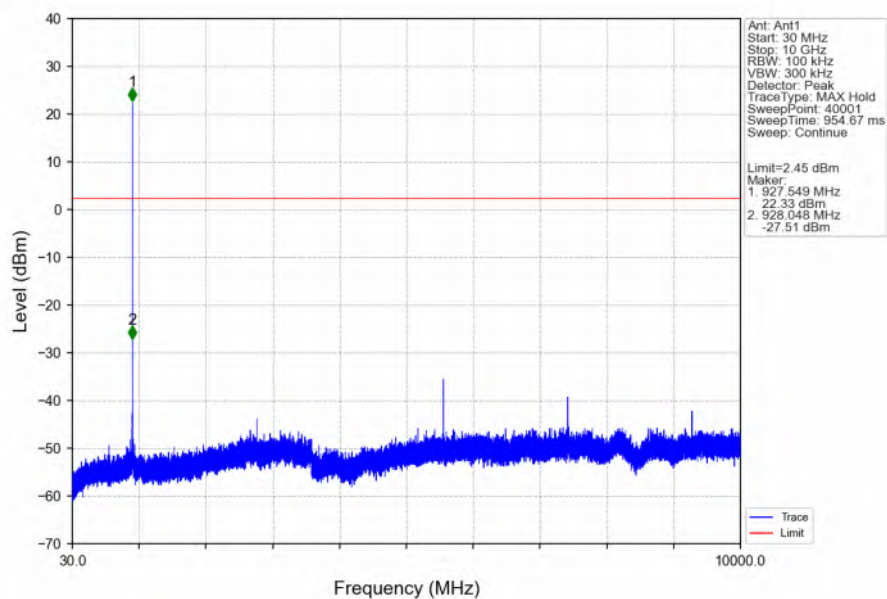
CSS\_125KHz\_MCH\_915MHz\_Ant1\_NTNV



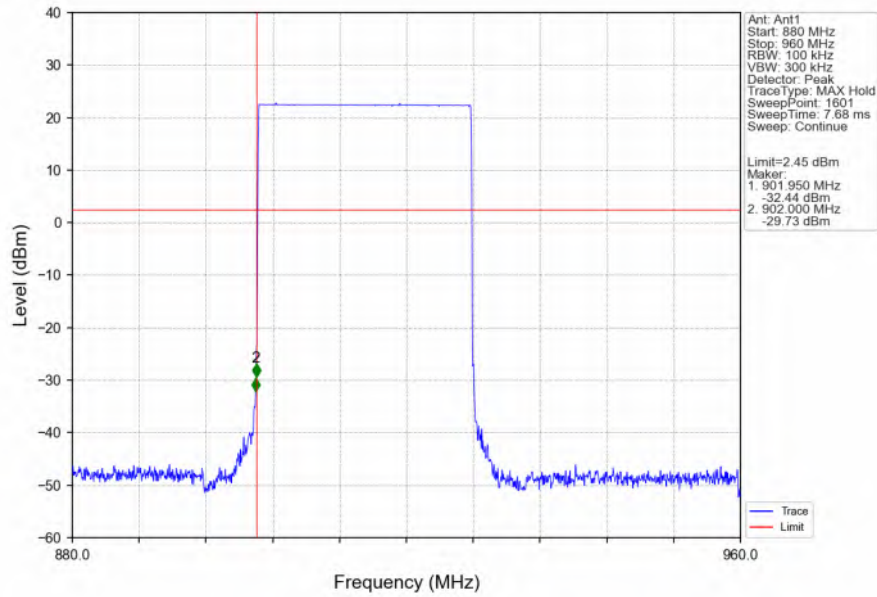
CSS\_125KHz\_HCH\_927.6MHz\_Ant1\_NTNV



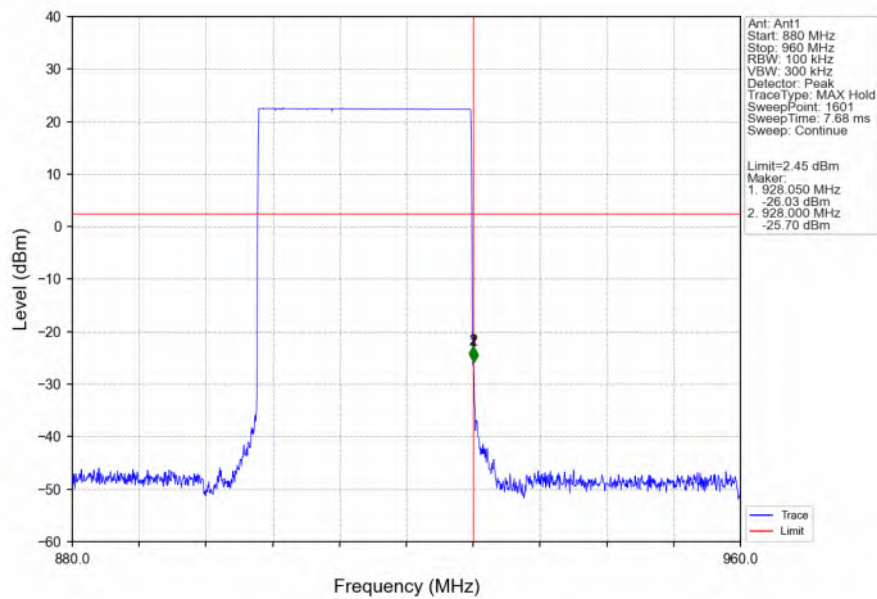
CSS\_125KHz\_HCH\_927.6MHz\_Ant1\_NTNV



## CSS\_125KHz\_HOPP\_Ant1\_NTNV



## CSS\_125KHz\_HOPP\_Ant1\_NTNV



**FSK\_50kbps****1. Bandwidth****1.1 Test Result****1.1.1 OBW**

| Mode       | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------|---------|-----------------|-----|------------------------------|-------|---------|
|            |         |                 |     | Result                       | Limit |         |
| FSK_50kbps | SISO    | 902.2           | 1   | 0.102                        | /     | Pass    |
|            |         | 915             | 1   | 0.102                        | /     | Pass    |
|            |         | 927.8           | 1   | 0.101                        | /     | Pass    |

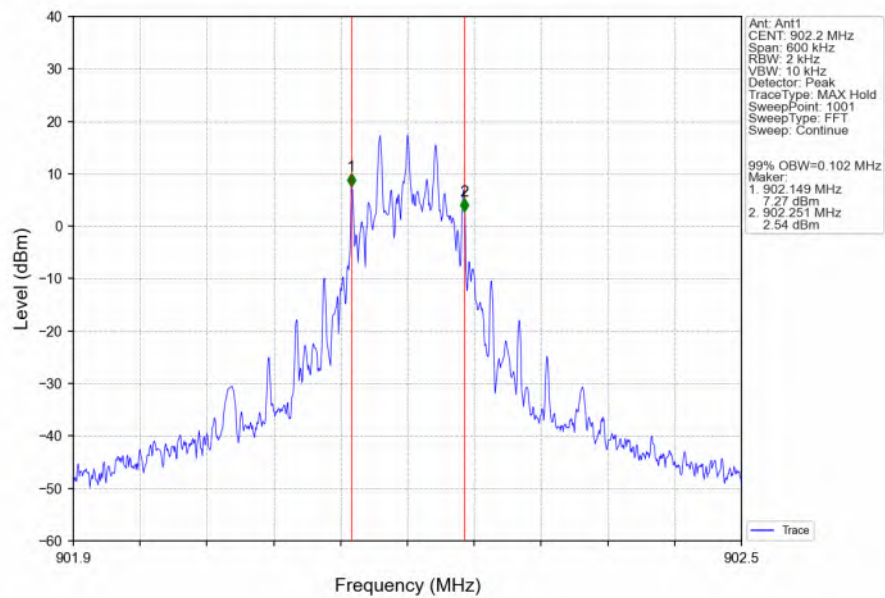
**1.1.2 20dB BW**

| Mode       | TX Type | Frequency (MHz) | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|------------|---------|-----------------|-----|----------------------|-------|---------|
|            |         |                 |     | Result               | Limit |         |
| FSK_50kbps | SISO    | 902.2           | 1   | 0.105                | /     | Pass    |
|            |         | 915             | 1   | 0.104                | /     | Pass    |
|            |         | 927.8           | 1   | 0.103                | /     | Pass    |

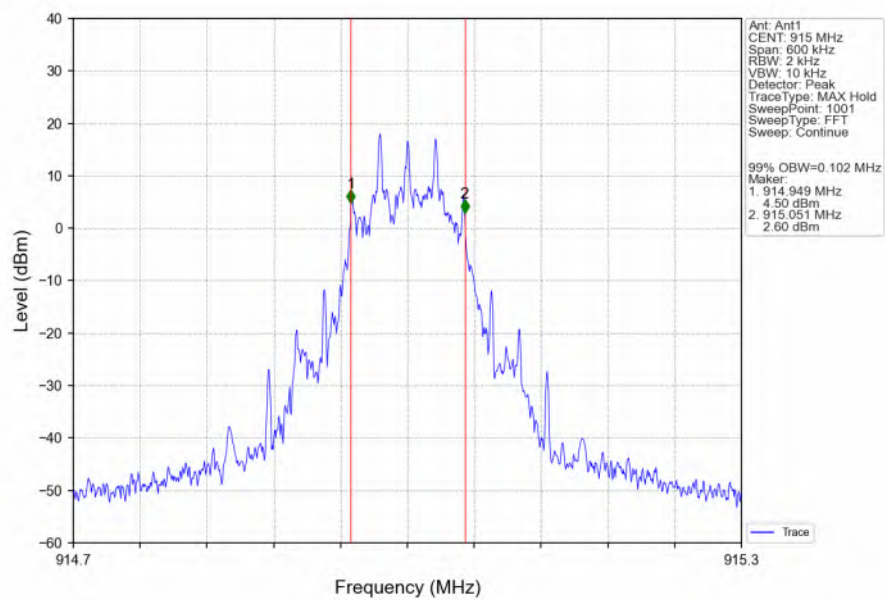
## 1.2 Test Graph

### 1.2.1 OBW

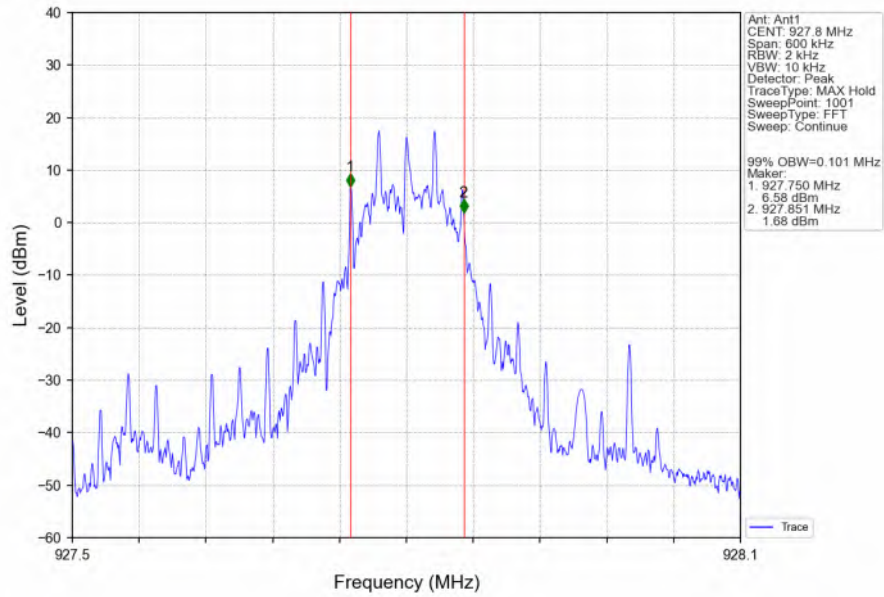
FSK\_50kbps\_LCH\_902.2MHz\_Ant1\_NTNV



FSK\_50kbps\_MCH\_915MHz\_Ant1\_NTNV

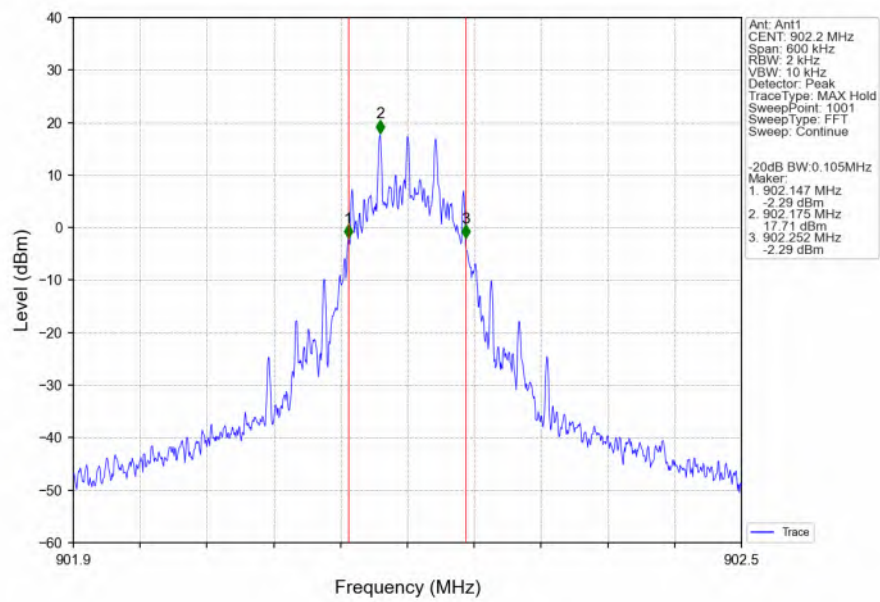


## FSK\_50kbps\_HCH\_927.8MHz\_Ant1\_NTNV

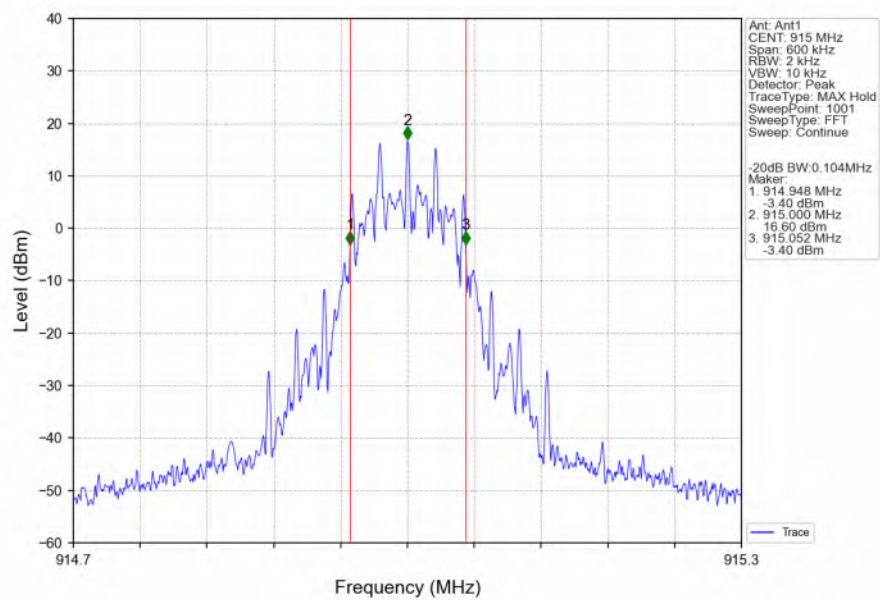


## 1.2.2 20dB BW

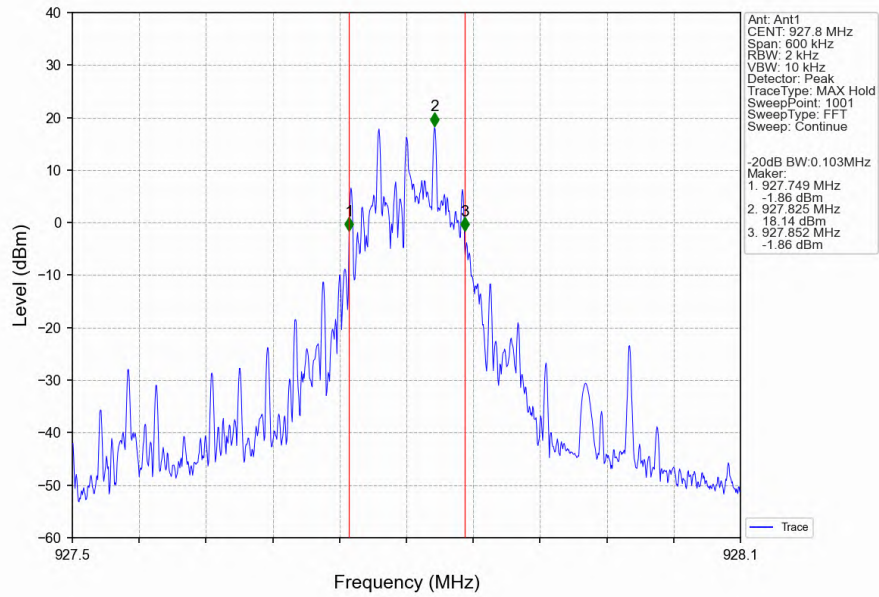
FSK\_50kbps\_LCH\_902.2MHz\_Ant1\_NTNV



FSK\_50kbps\_MCH\_915MHz\_Ant1\_NTNV



## FSK\_50kbps\_HCH\_927.8MHz\_Ant1\_NTNV





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## 2. Maximum Conducted Output Power

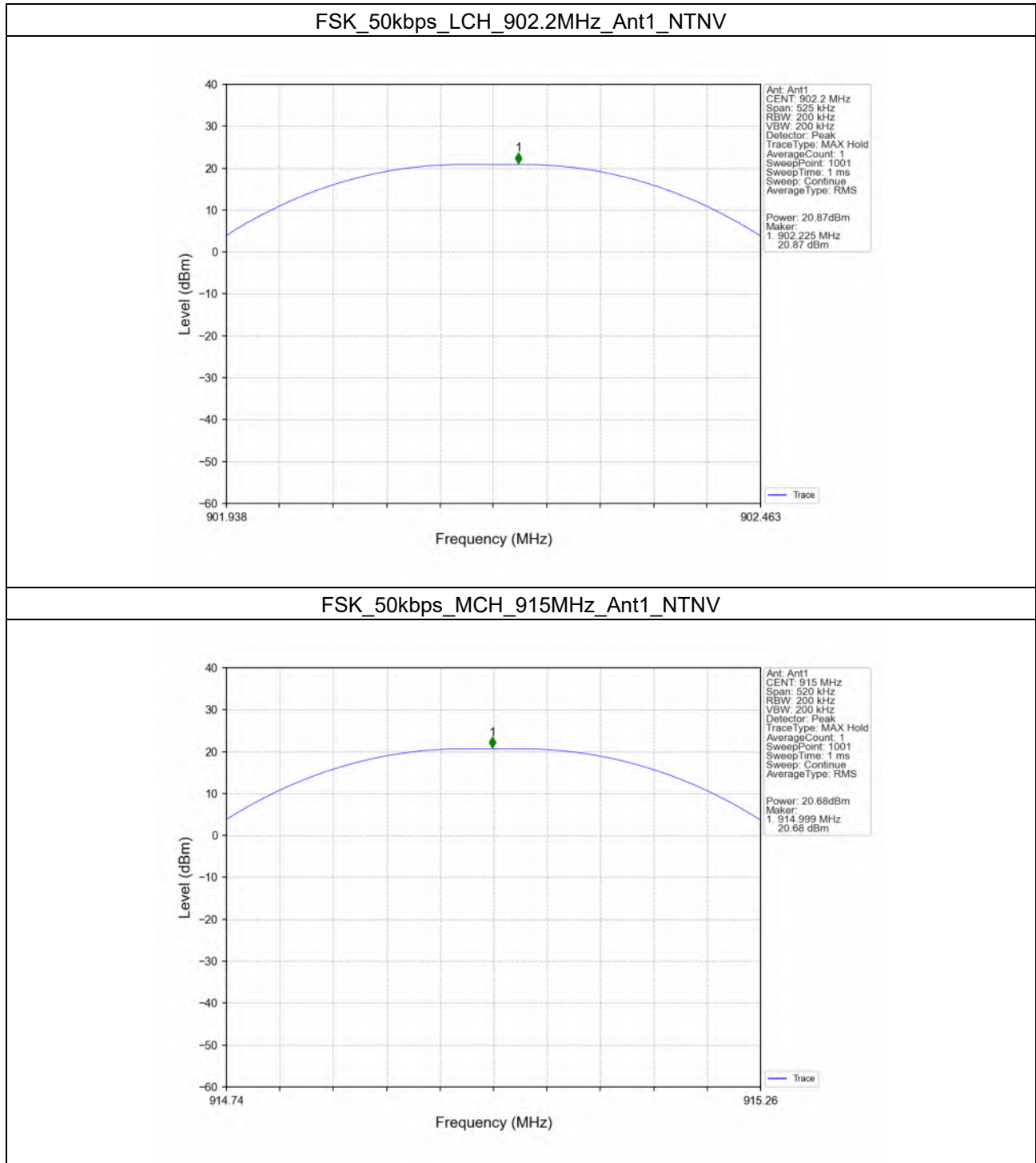
### 2.1 Test Result

#### 2.1.1 Power

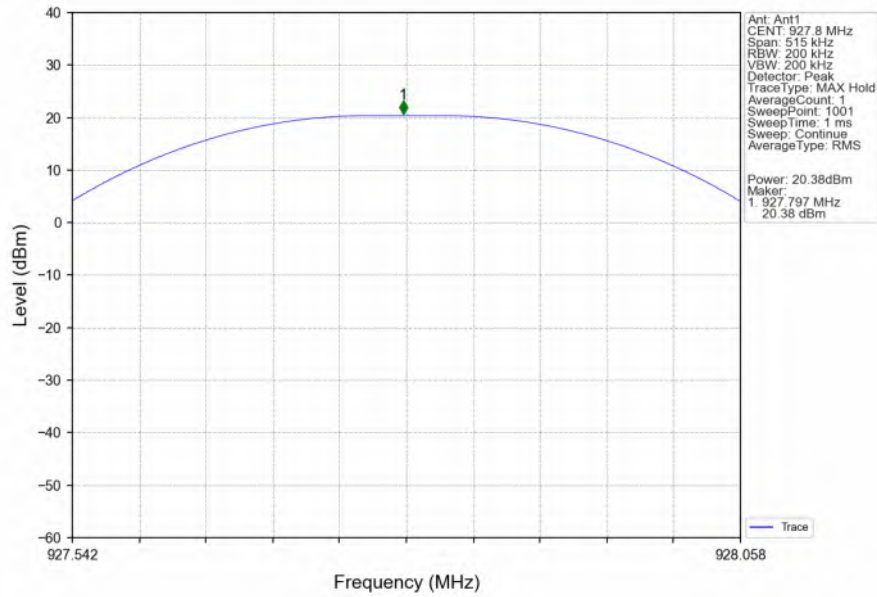
| Mode                                | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       | Verdict |
|-------------------------------------|---------|-----------------|----------------------------------------------|-------|---------|
|                                     |         |                 | ANT1                                         | Limit |         |
| FSK_50kbps                          | SISO    | 902.2           | 20.87                                        | <=30  | Pass    |
|                                     |         | 915             | 20.68                                        | <=30  | Pass    |
|                                     |         | 927.8           | 20.38                                        | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: 1.50dBi; |         |                 |                                              |       |         |

## 2.2 Test Graph

### 2.2.1 Power



## FSK\_50kbps\_HCH\_927.8MHz\_Ant1\_NTNV





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### 3. Carrier Frequency Separation

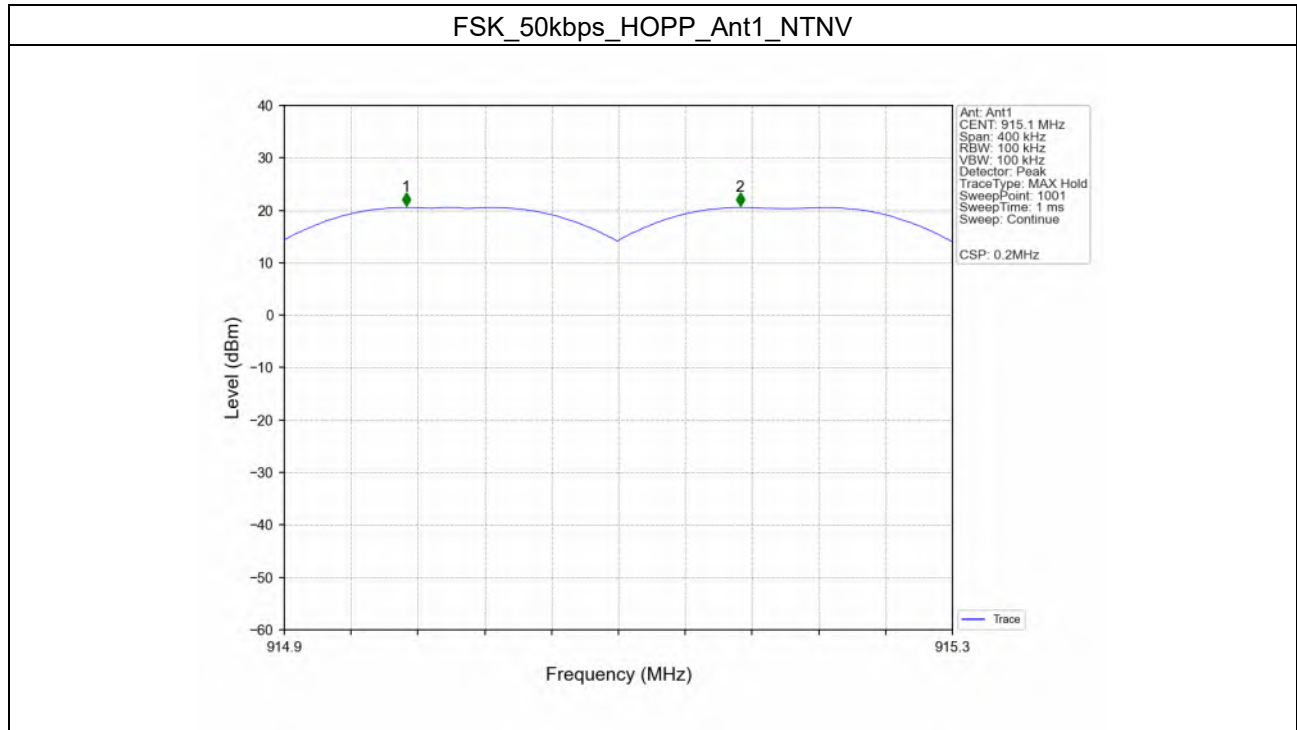
#### 3.1 Test Result

##### 3.1.1 Ant1

| Ant1       |         |                 |                          |                      |              |         |
|------------|---------|-----------------|--------------------------|----------------------|--------------|---------|
| Mode       | TX Type | Frequency (MHz) | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| FSK_50kbps | SISO    | HOPP            | 0.200                    | 0.105                | $\geq 0.105$ | Pass    |

## 3.2 Test Graph

### 3.2.1 Ant1





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## 4. Number of Hopping Frequencies

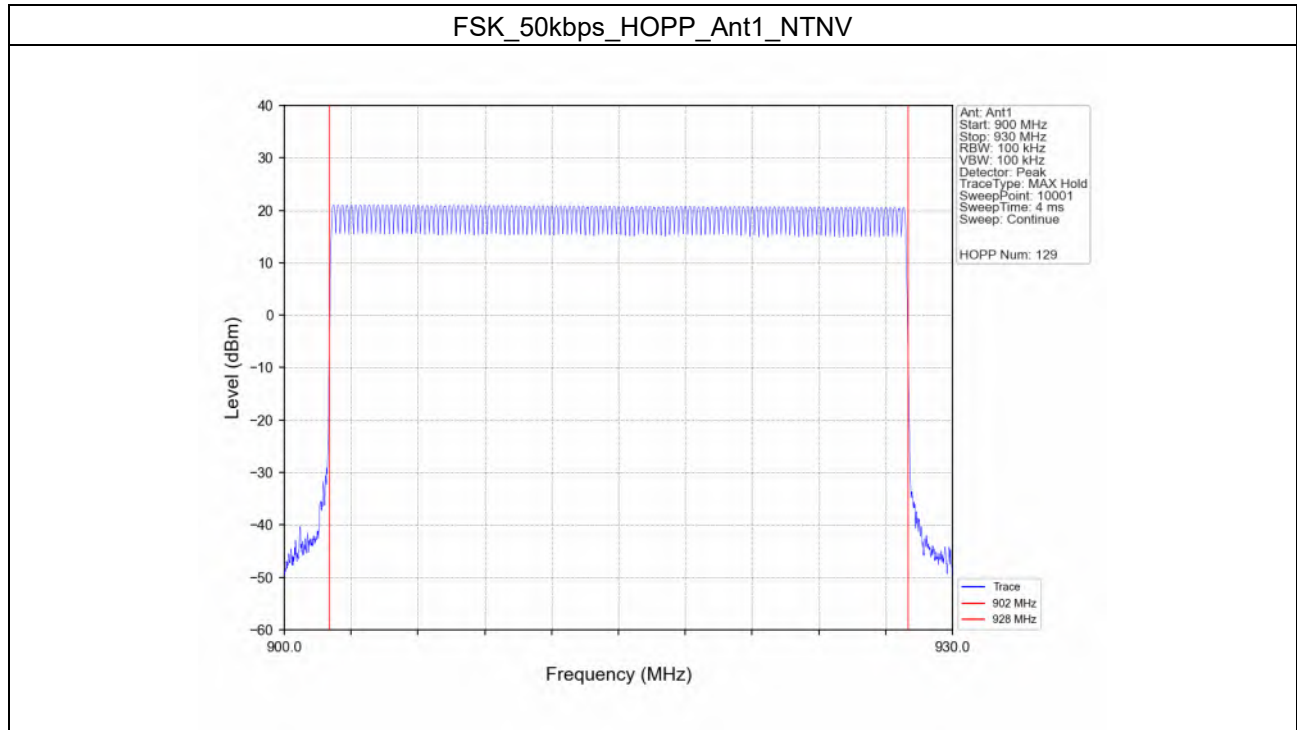
### 4.1 Test Result

#### 4.1.1 HoppNum

| Mode       | TX<br>Type | Frequency<br>(MHz) | Num of Hopping Frequencies |       | Verdict |
|------------|------------|--------------------|----------------------------|-------|---------|
|            |            |                    | ANT1                       | Limit |         |
| FSK_50kbps | SISO       | HOPP               | 129                        | >=50  | Pass    |

## 4.2 Test Graph

### 4.2.1 HoppNum





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## 5. Time of Occupancy (Dwell Time)

### 5.1 Test Result

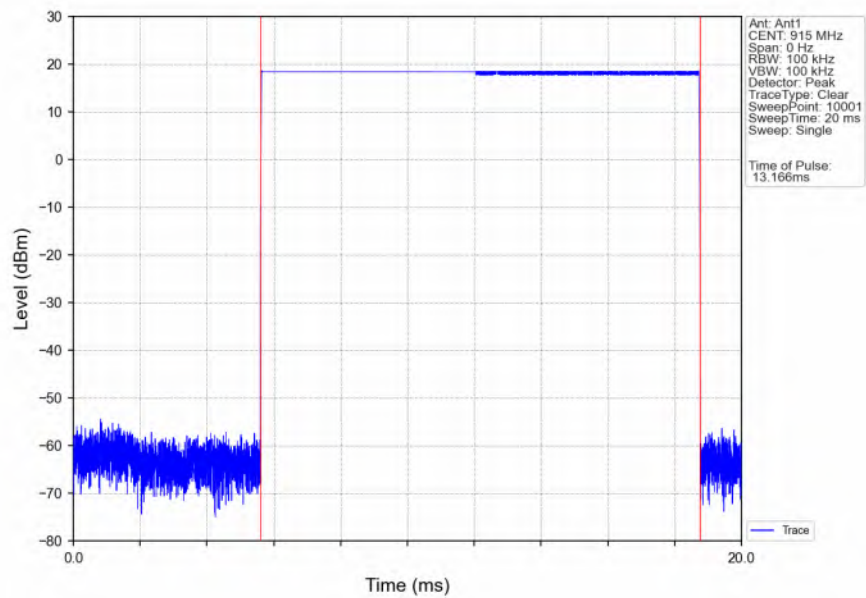
#### 5.1.1 Ant1

| Ant1       |         |                 |                               |                        |                                    |                 |            |         |
|------------|---------|-----------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode       | TX Type | Frequency (MHz) | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| FSK_50kbps | SISO    | HOPP            | 13.166                        | 20.000                 | 1                                  | 13.166          | <=400      | Pass    |

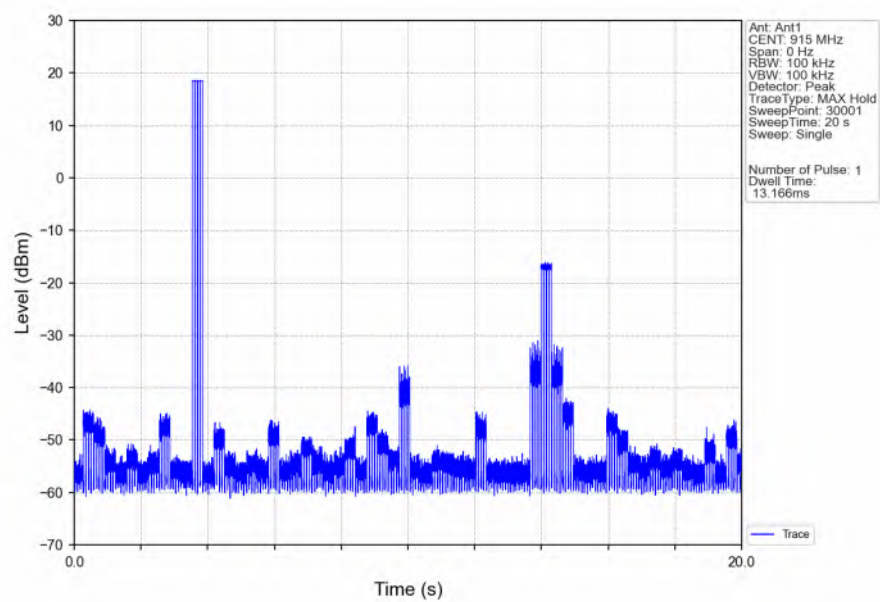
## 5.2 Test Graph

### 5.2.1 Ant1

FSK\_50kbps\_HOPP\_Ant1\_NTNV



FSK\_50kbps\_HOPP\_Ant1\_NTNV





## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Test Result

#### 6.1.1 Ref

| Mode       | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------------|---------|-----------------|-----|--------------------------|
| FSK_50kbps | SISO    | 902.2           | 1   | 20.75                    |
|            |         | 915             | 1   | 20.55                    |
|            |         | 927.8           | 1   | 20.60                    |

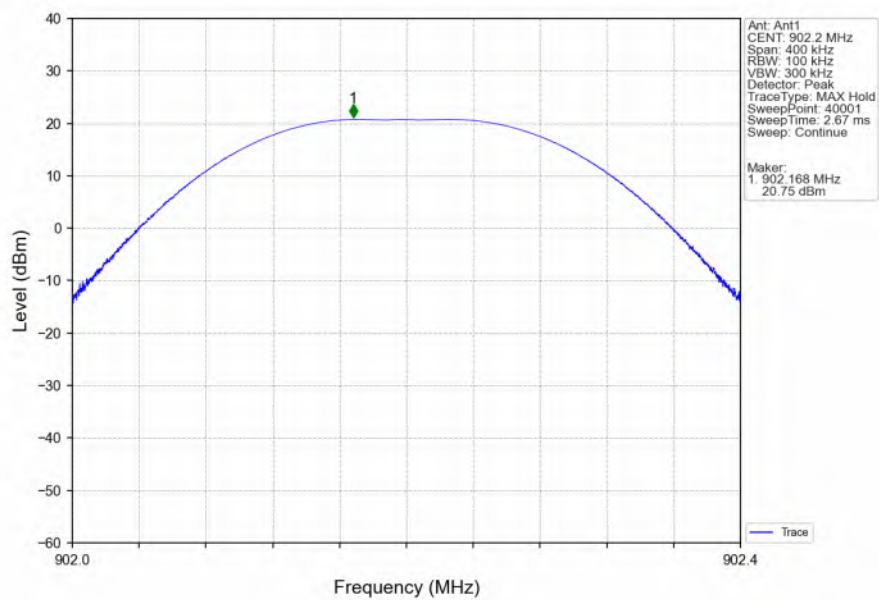
#### 6.1.2 CSE

| Mode       | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------------|---------|-----------------|-----|--------------------------|-------------|---------|
| FSK_50kbps | SISO    | 902.2           | 1   | 20.75                    | 0.75        | Pass    |
|            |         | 915             | 1   | 20.75                    | 0.75        | Pass    |
|            |         | 927.8           | 1   | 20.75                    | 0.75        | Pass    |
|            |         | HOPP            | 1   | 20.75                    | 0.75        | Pass    |
|            |         |                 |     | 20.75                    | 0.75        | Pass    |

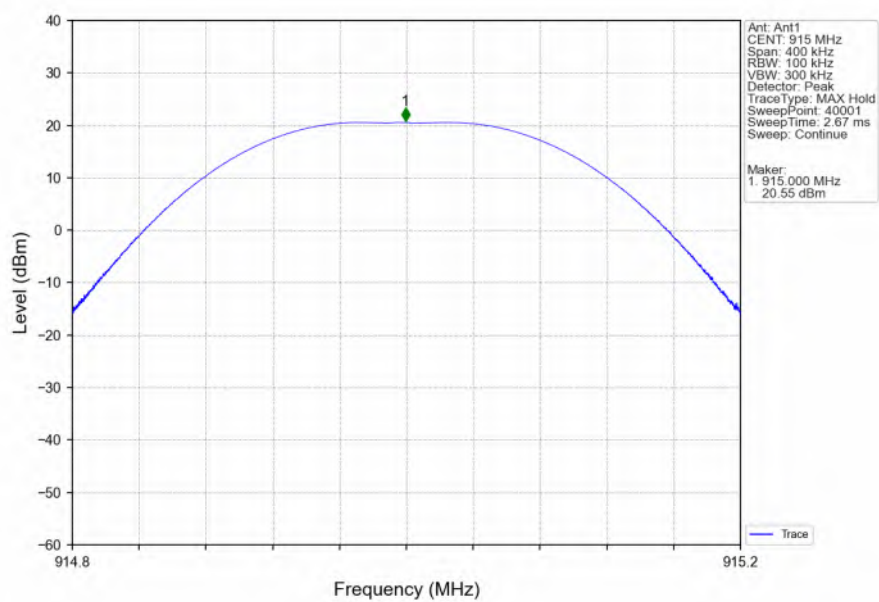
## 6.2 Test Graph

### 6.2.1 Ref

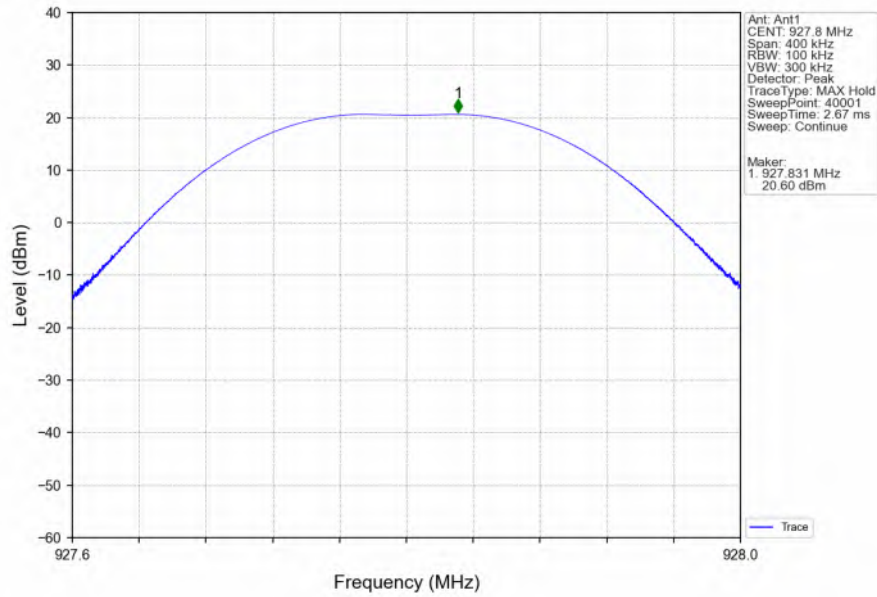
FSK\_50kbps\_LCH\_902.2MHz\_Ant1\_NTNV



FSK\_50kbps\_MCH\_915MHz\_Ant1\_NTNV

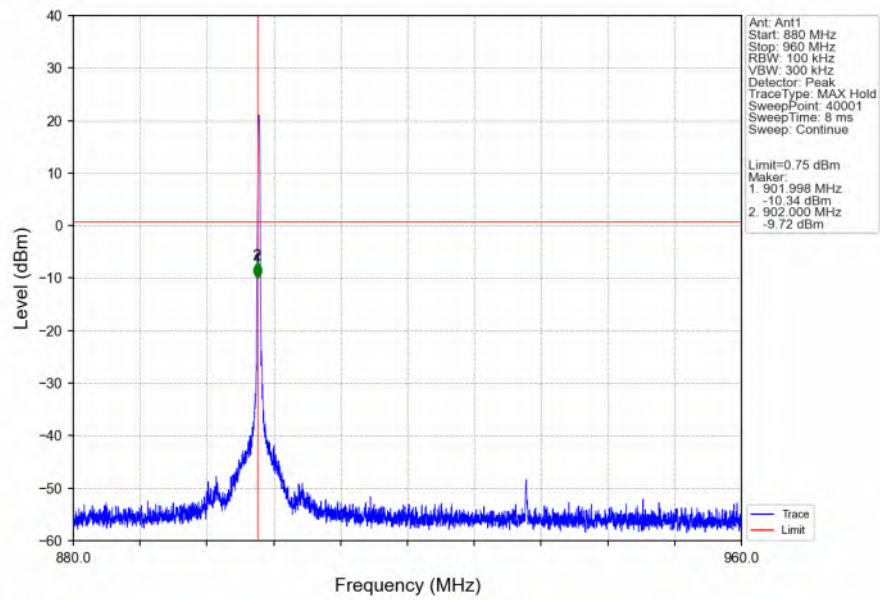


## FSK\_50kbps\_HCH\_927.8MHz\_Ant1\_NTNV

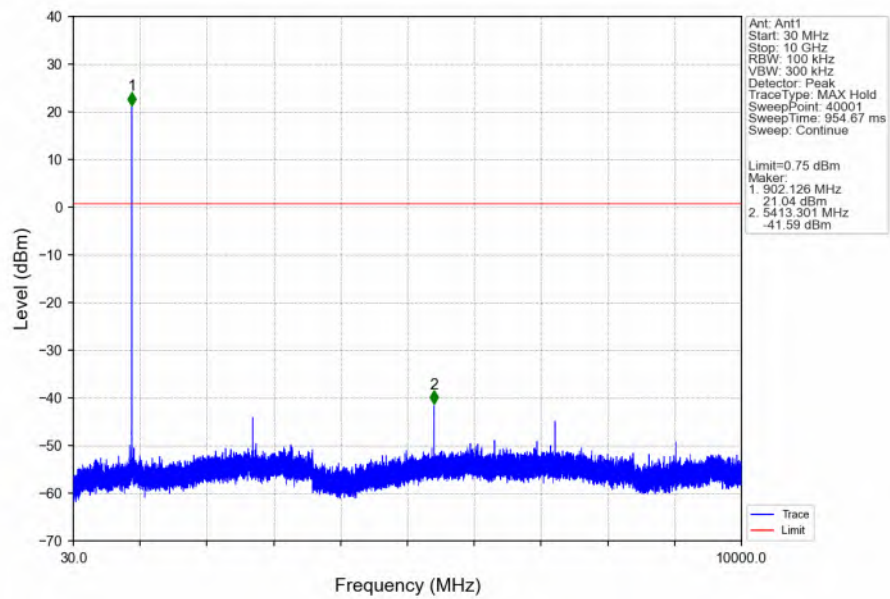


## 6.2.2 CSE

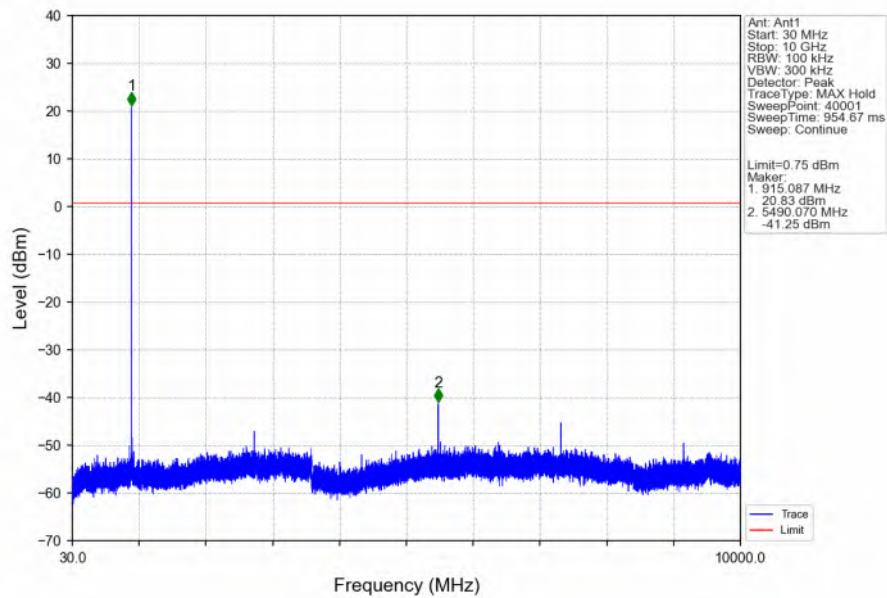
FSK\_50kbps\_LCH\_902.2MHz\_Ant1\_NTNV



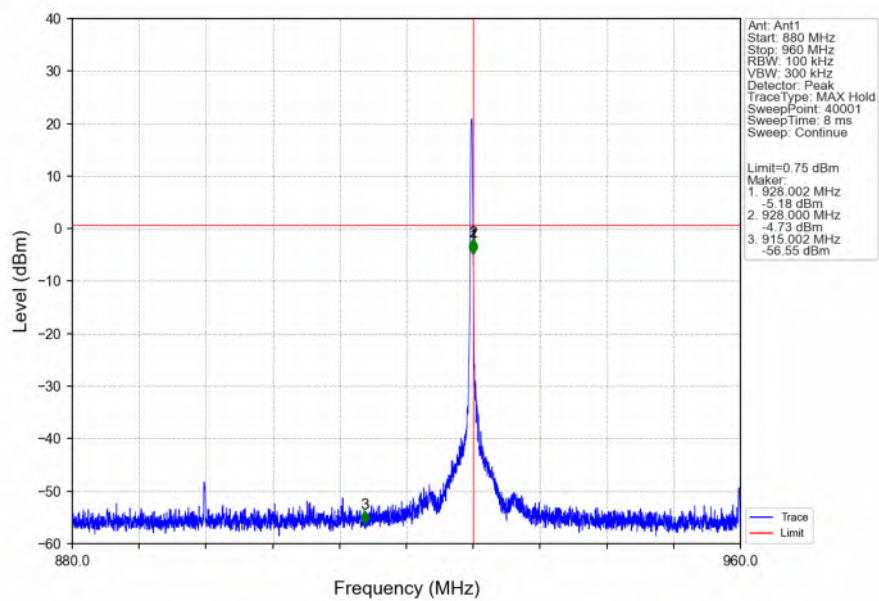
FSK\_50kbps\_LCH\_902.2MHz\_Ant1\_NTNV



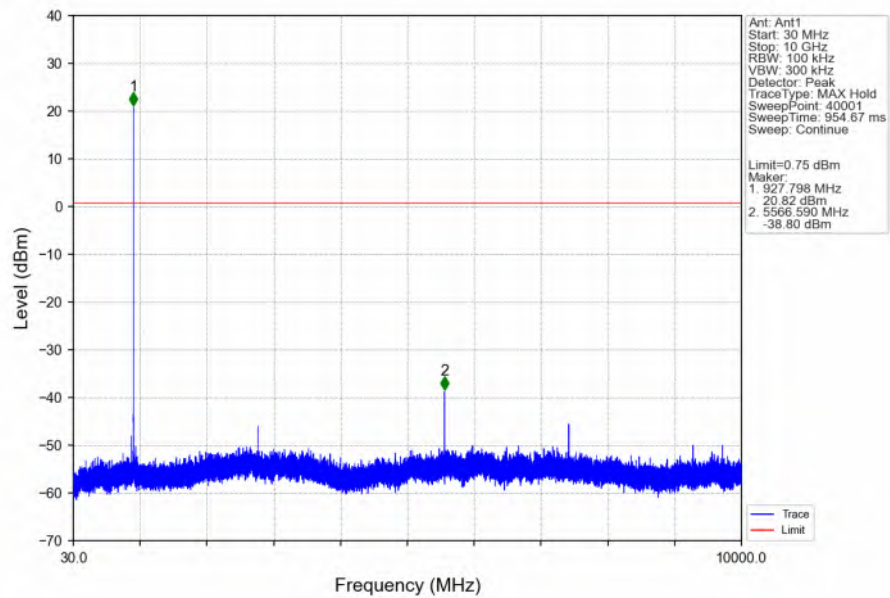
## FSK\_50kbps\_MCH\_915MHz\_Ant1\_NTNV



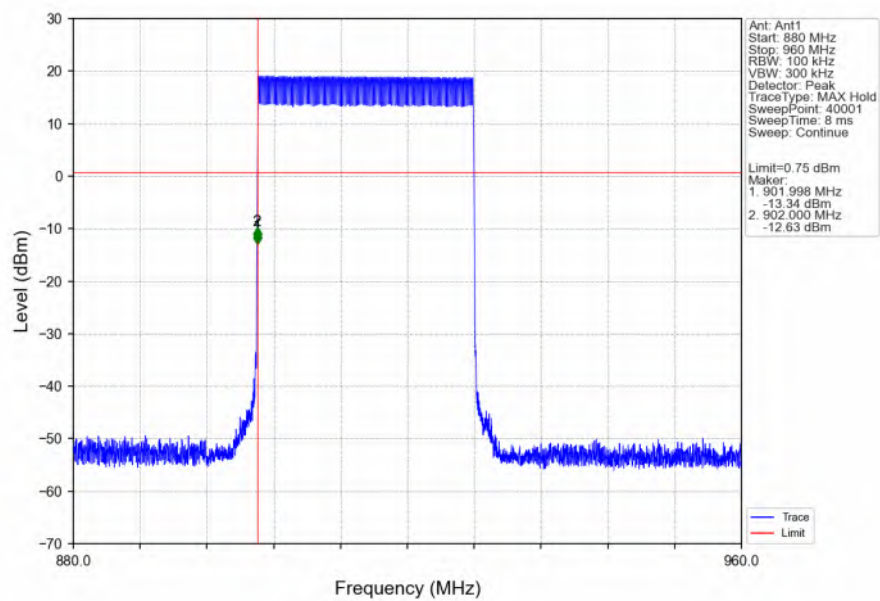
## FSK\_50kbps\_HCH\_927.8MHz\_Ant1\_NTNV



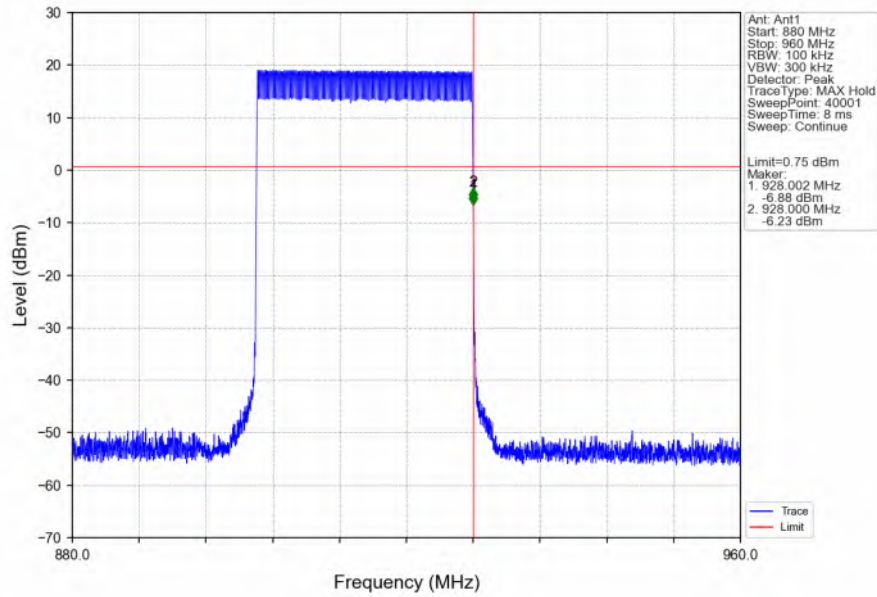
## FSK\_50kbps\_HCH\_927.8MHz\_Ant1\_NTNV



## FSK\_50kbps\_HOPP\_Ant1\_NTNV



## FSK\_50kbps\_HOPP\_Ant1\_NTNV



**FSK\_150kbps****1. Bandwidth****1.1 Test Result****1.1.1 OBW**

| Mode        | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|-------------|---------|-----------------|-----|------------------------------|-------|---------|
|             |         |                 |     | Result                       | Limit |         |
| FSK_150kbps | SISO    | 902.4           | 1   | 0.152                        | /     | Pass    |
|             |         | 915.2           | 1   | 0.151                        | /     | Pass    |
|             |         | 927.6           | 1   | 0.153                        | /     | Pass    |

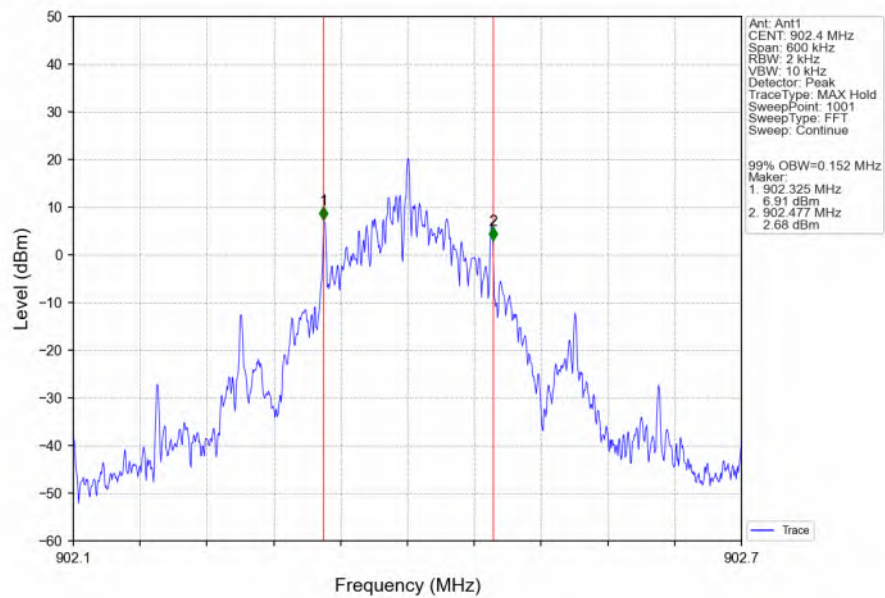
**1.1.2 20dB BW**

| Mode        | TX Type | Frequency (MHz) | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|-------------|---------|-----------------|-----|----------------------|-------|---------|
|             |         |                 |     | Result               | Limit |         |
| FSK_150kbps | SISO    | 902.4           | 1   | 0.153                | /     | Pass    |
|             |         | 915.2           | 1   | 0.153                | /     | Pass    |
|             |         | 927.6           | 1   | 0.153                | /     | Pass    |

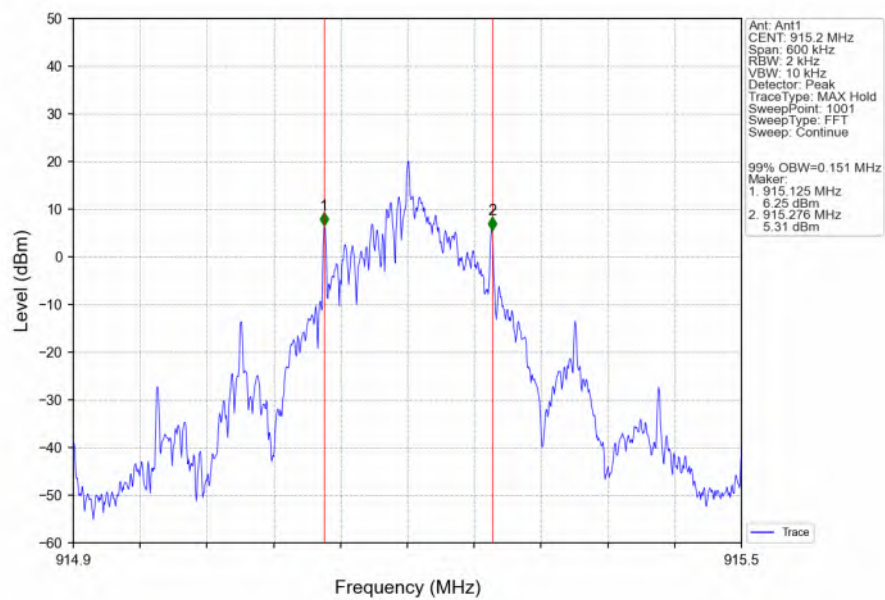
## 1.2 Test Graph

### 1.2.1 OBW

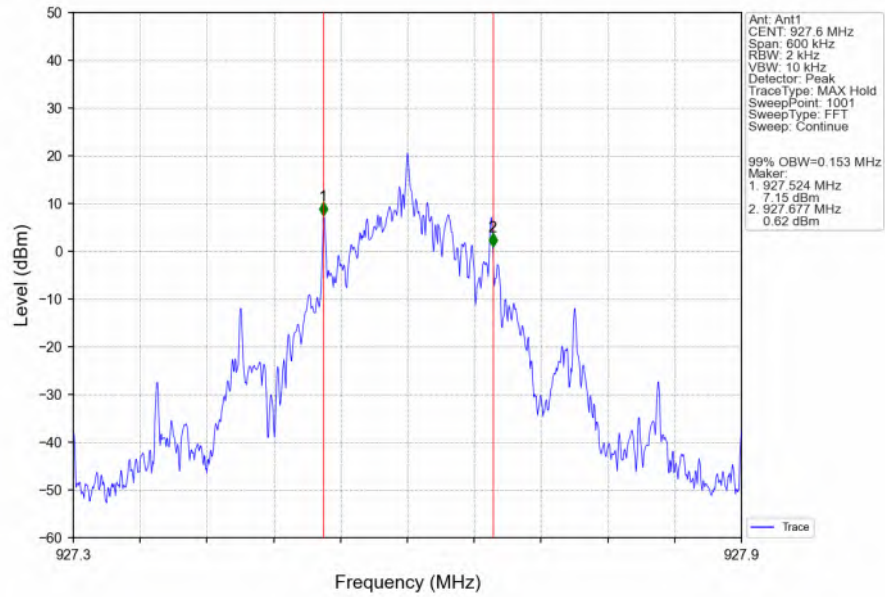
FSK\_150kbps\_LCH\_902.4MHz\_Ant1\_NTNV



FSK\_150kbps\_MCH\_915.2MHz\_Ant1\_NTNV

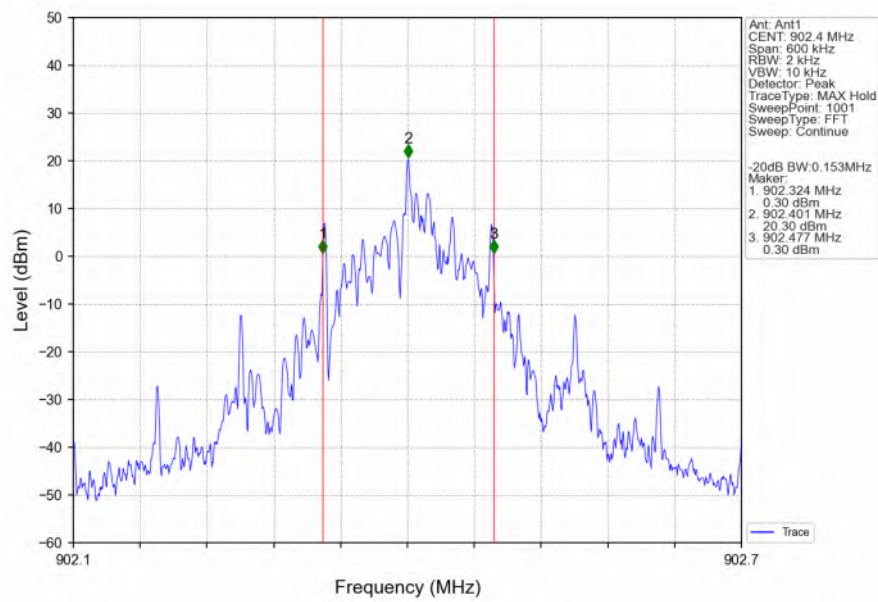


## FSK\_150kbps\_HCH\_927.6MHz\_Ant1\_NTNV

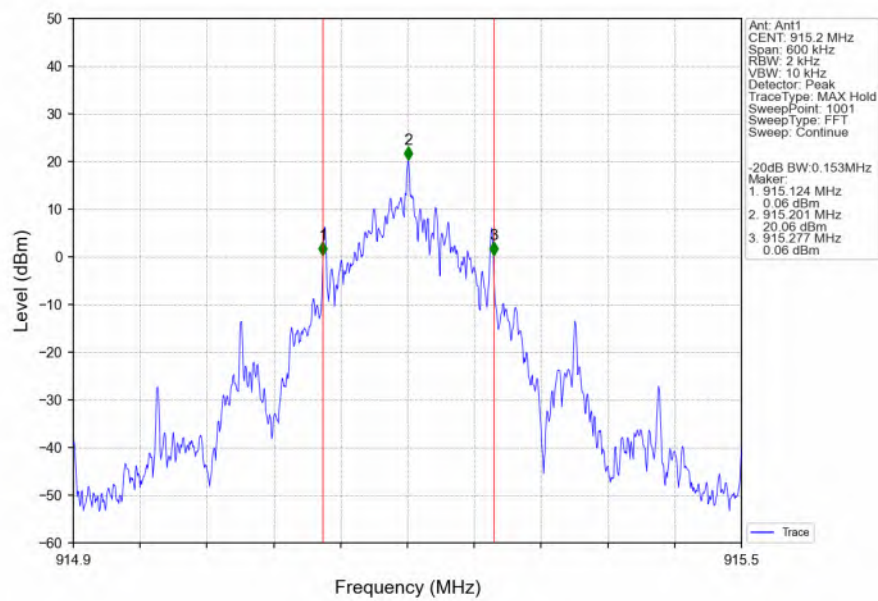


## 1.2.2 20dB BW

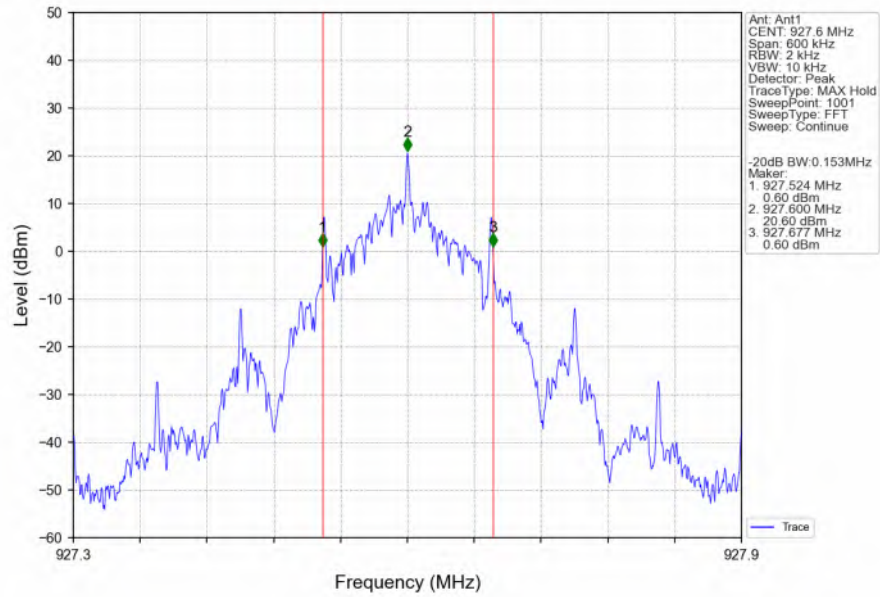
FSK\_150kbps\_LCH\_902.4MHz\_Ant1\_NTNV



FSK\_150kbps\_MCH\_915.2MHz\_Ant1\_NTNV



## FSK\_150kbps\_HCH\_927.6MHz\_Ant1\_NTNV





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## 2. Maximum Conducted Output Power

### 2.1 Test Result

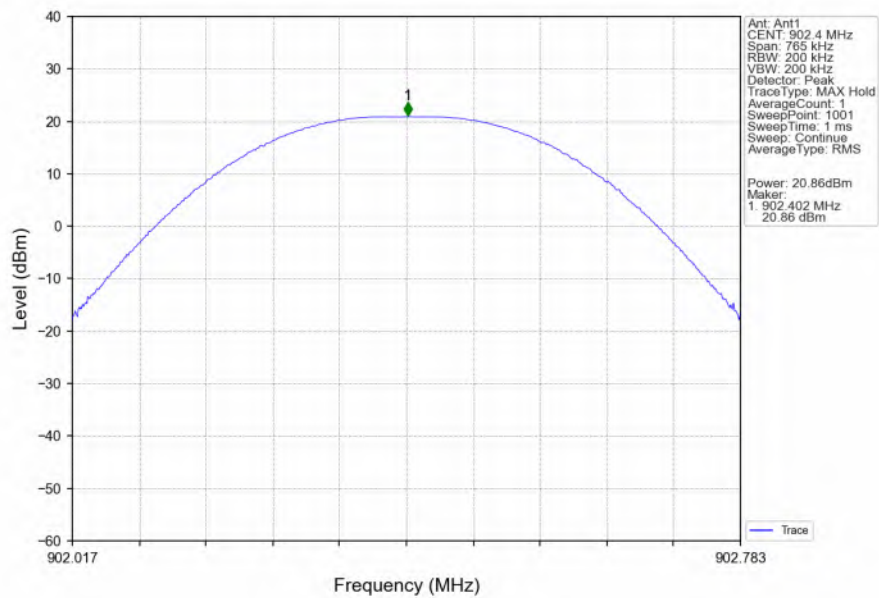
#### 2.1.1 Power

| Mode                                | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       | Verdict |
|-------------------------------------|---------|-----------------|----------------------------------------------|-------|---------|
|                                     |         |                 | ANT1                                         | Limit |         |
| FSK_150kbps                         | SISO    | 902.4           | 20.86                                        | <=30  | Pass    |
|                                     |         | 915.2           | 20.66                                        | <=30  | Pass    |
|                                     |         | 927.6           | 20.25                                        | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: 1.50dBi; |         |                 |                                              |       |         |

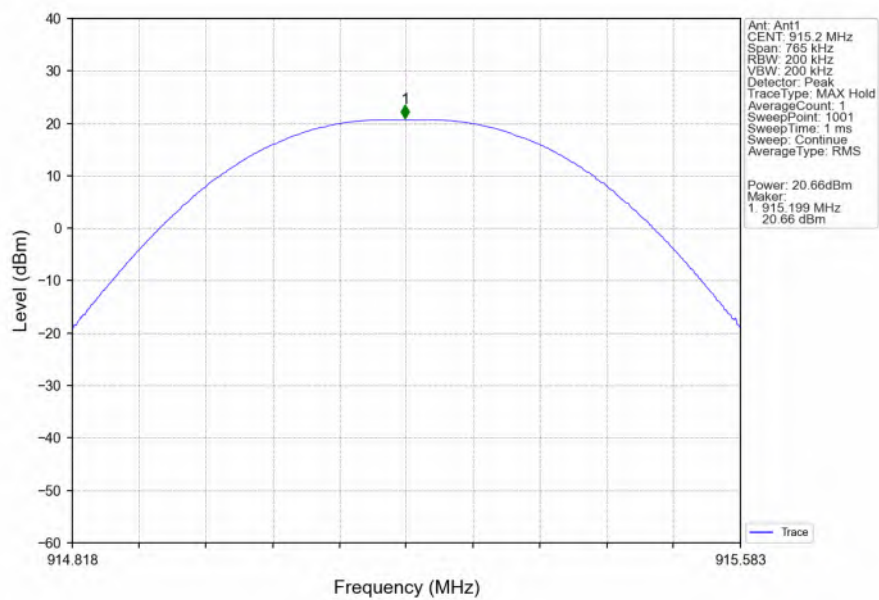
## 2.2 Test Graph

### 2.2.1 Power

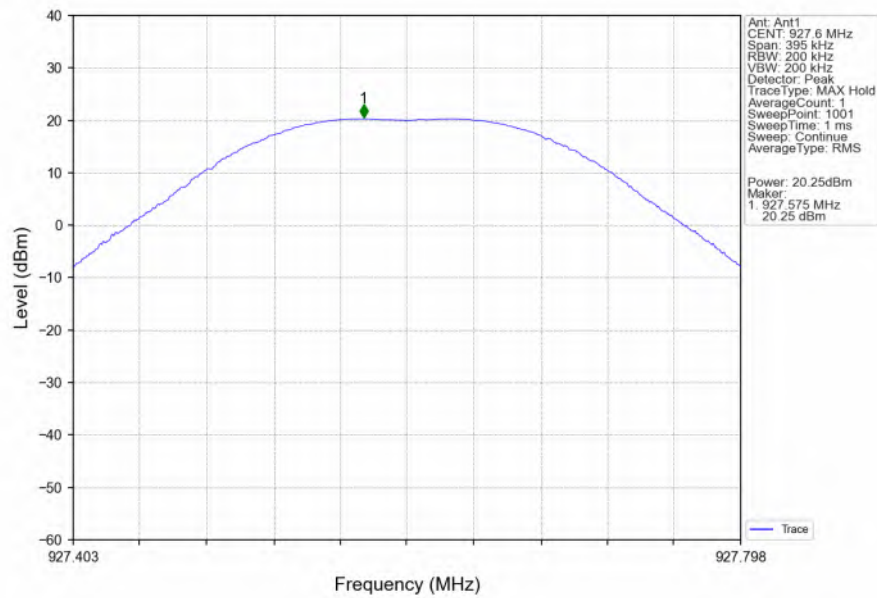
FSK\_150kbps\_LCH\_902.4MHz\_Ant1\_NTNV



FSK\_150kbps\_MCH\_915.2MHz\_Ant1\_NTNV



## FSK\_150kbps\_HCH\_927.6MHz\_Ant1\_NTNV





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### 3. Carrier Frequency Separation

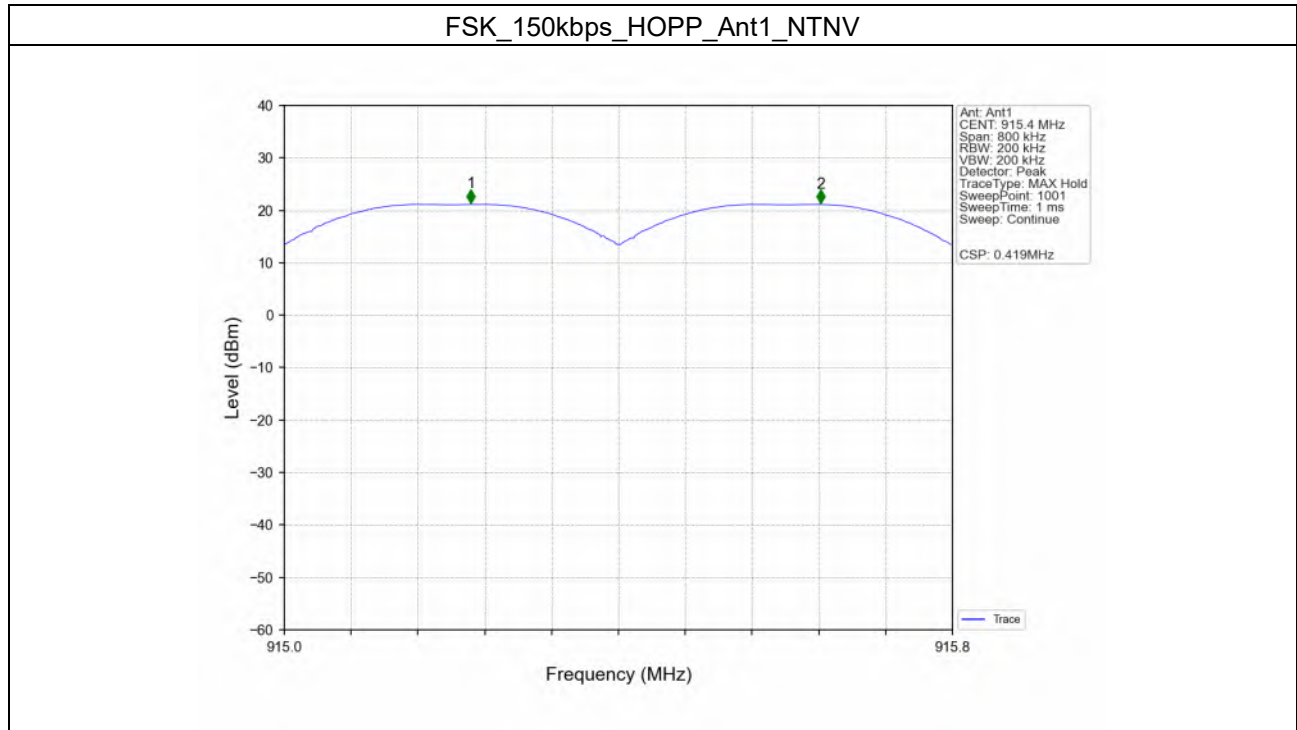
#### 3.1 Test Result

##### 3.1.1 Ant1

| Ant1        |         |                 |                          |                      |              |         |
|-------------|---------|-----------------|--------------------------|----------------------|--------------|---------|
| Mode        | TX Type | Frequency (MHz) | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| FSK_150kbps | SISO    | HOPP            | 0.419                    | 0.153                | $\geq 0.153$ | Pass    |

## 3.2 Test Graph

### 3.2.1 Ant1





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## 4. Number of Hopping Frequencies

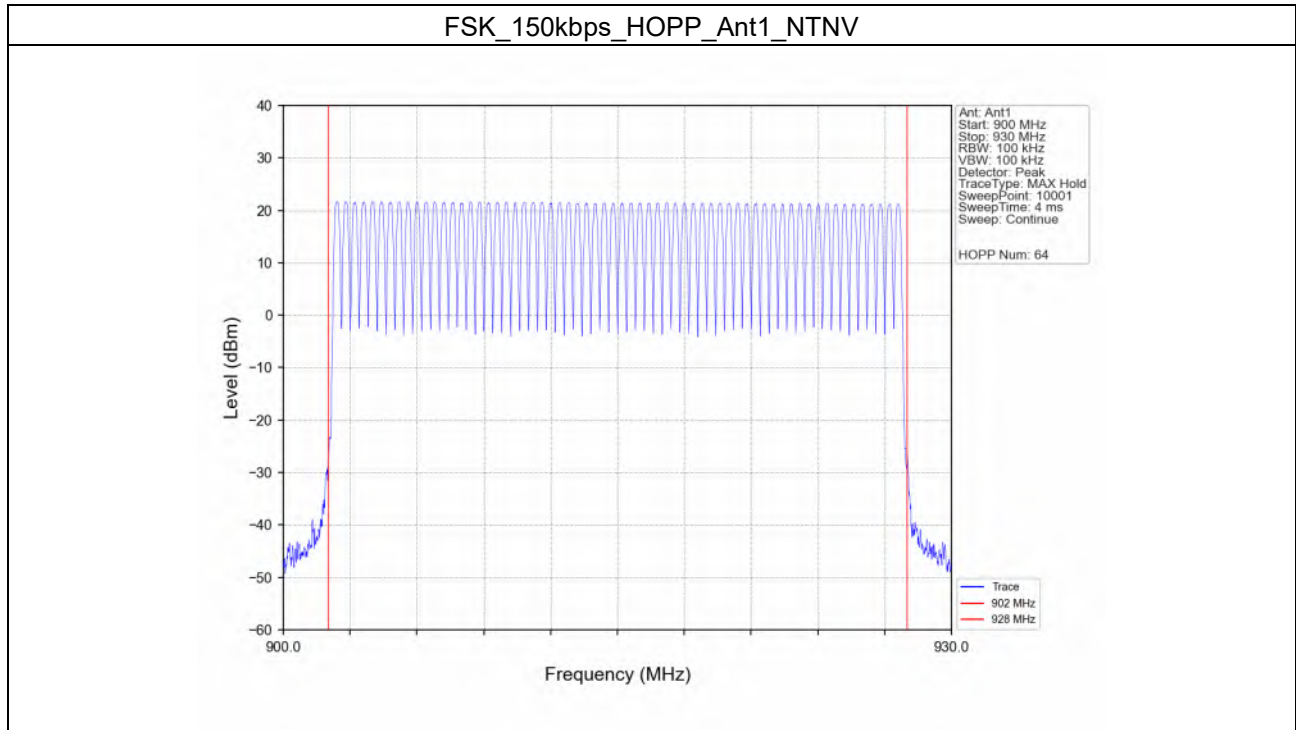
### 4.1 Test Result

#### 4.1.1 HoppNum

| Mode        | TX Type | Frequency (MHz) | Num of Hopping Frequencies |       | Verdict |
|-------------|---------|-----------------|----------------------------|-------|---------|
|             |         |                 | ANT1                       | Limit |         |
| FSK_150kbps | SISO    | HOPP            | 64                         | >=50  | Pass    |

## 4.2 Test Graph

### 4.2.1 HoppNum





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## 5. Time of Occupancy (Dwell Time)

### 5.1 Test Result

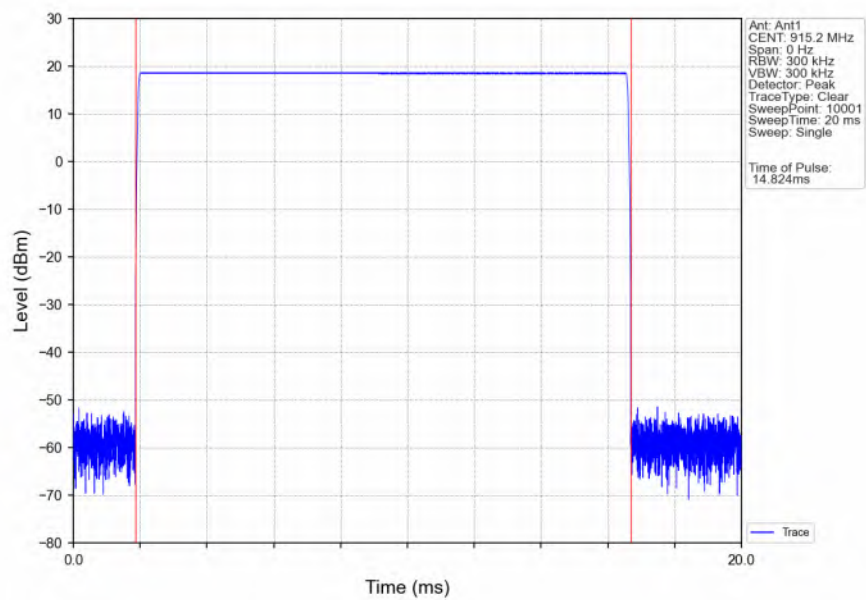
#### 5.1.1 Ant1

| Ant1        |         |                 |                               |                        |                                    |                 |            |         |
|-------------|---------|-----------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode        | TX Type | Frequency (MHz) | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| FSK_150kbps | SISO    | HOPP            | 14.824                        | 20.000                 | 1                                  | 14.824          | <=400      | Pass    |

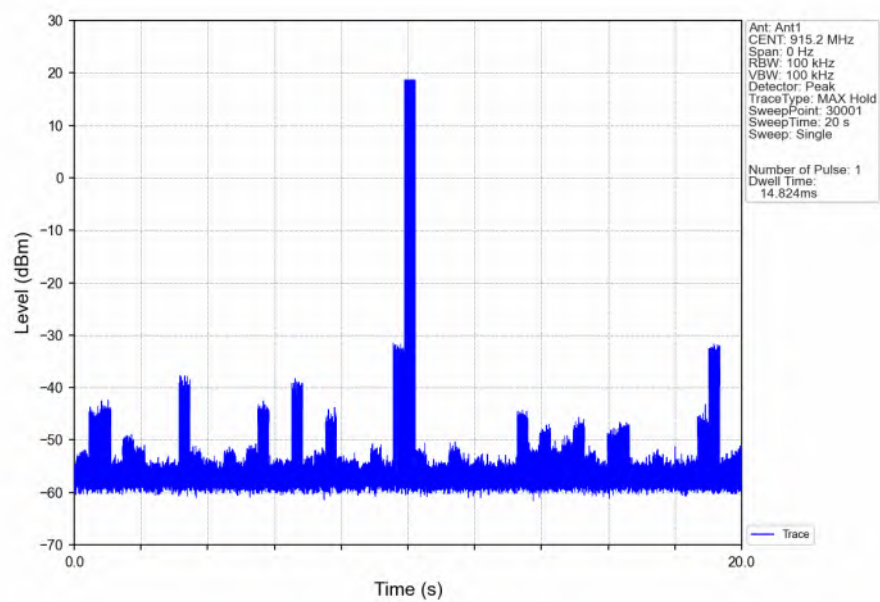
## 5.2 Test Graph

### 5.2.1 Ant1

FSK\_150kbps\_HOPP\_Ant1\_NTNV



FSK\_150kbps\_HOPP\_Ant1\_NTNV



## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Test Result

#### 6.1.1 Ref

| Mode        | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|-------------|---------|-----------------|-----|--------------------------|
| FSK_150kbps | SISO    | 902.4           | 1   | 20.74                    |
|             |         | 915.2           | 1   | 20.52                    |
|             |         | 927.6           | 1   | 20.26                    |

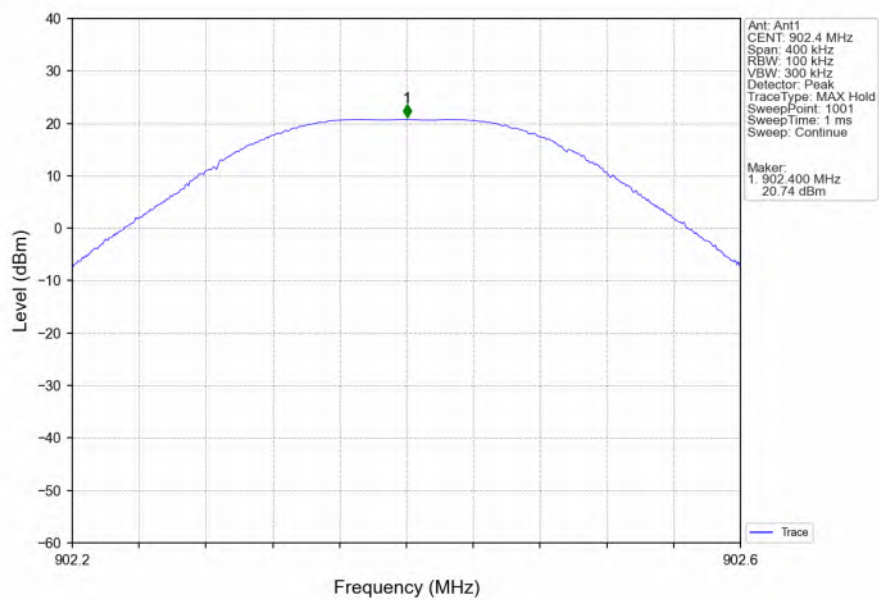
#### 6.1.2 CSE

| Mode        | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------|---------|-----------------|-----|--------------------------|-------------|---------|
| FSK_150kbps | SISO    | 902.4           | 1   | 20.74                    | 0.74        | Pass    |
|             |         | 915.2           | 1   | 20.74                    | 0.74        | Pass    |
|             |         | 927.6           | 1   | 20.74                    | 0.74        | Pass    |
|             |         | HOPP            | 1   | 20.74                    | 0.74        | Pass    |
|             |         |                 |     | 20.74                    | 0.74        | Pass    |

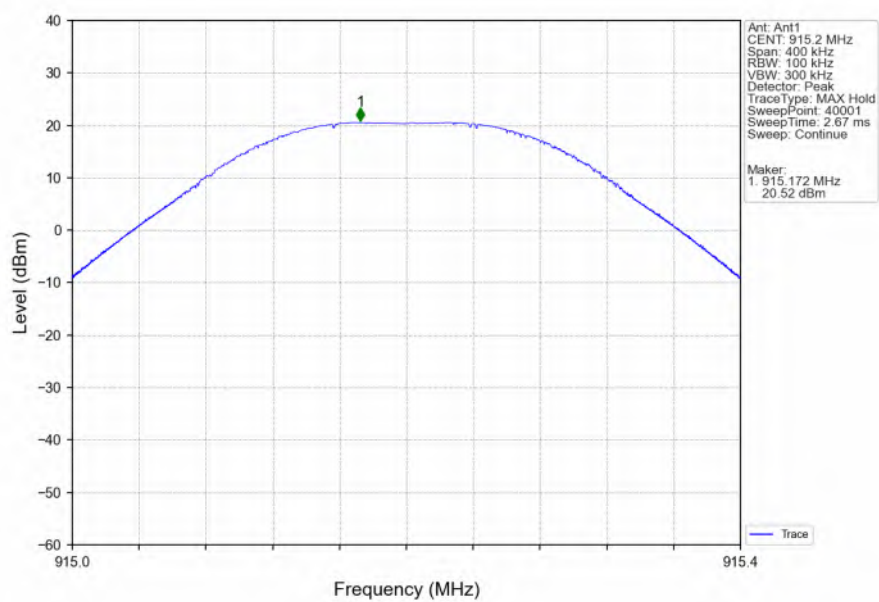
## 6.2 Test Graph

### 6.2.1 Ref

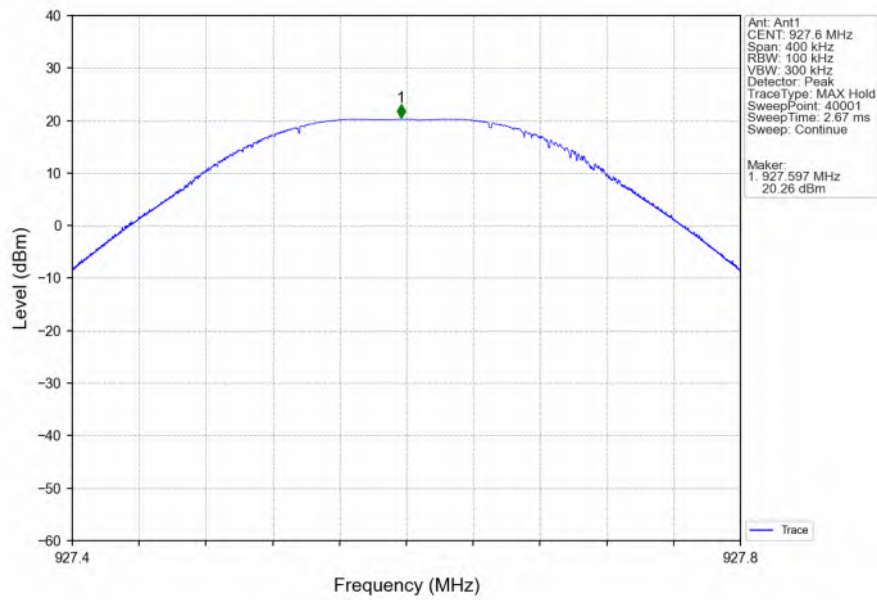
FSK\_150kbps\_LCH\_902.4MHz\_Ant1\_NTNV



FSK\_150kbps\_MCH\_915.2MHz\_Ant1\_NTNV

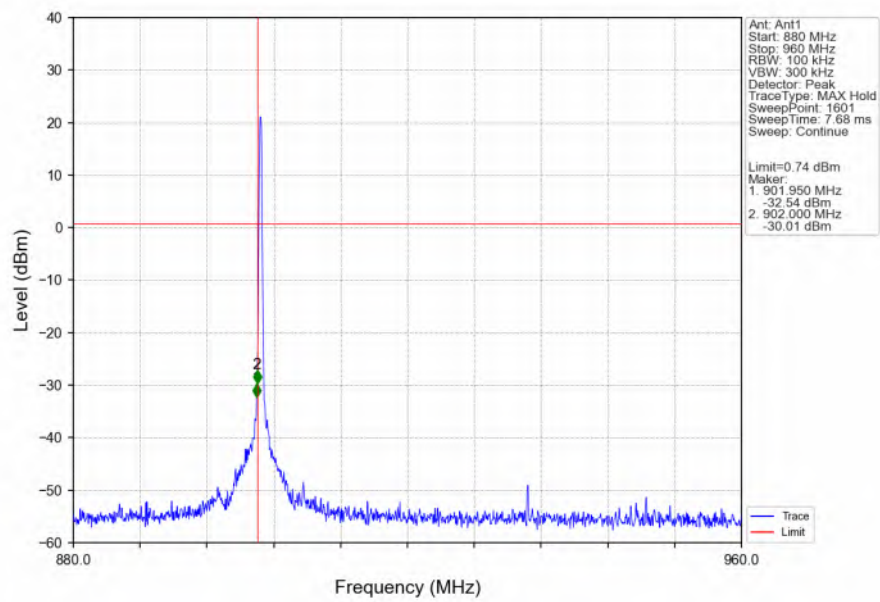


## FSK\_150kbps\_HCH\_927.6MHz\_Ant1\_NTNV

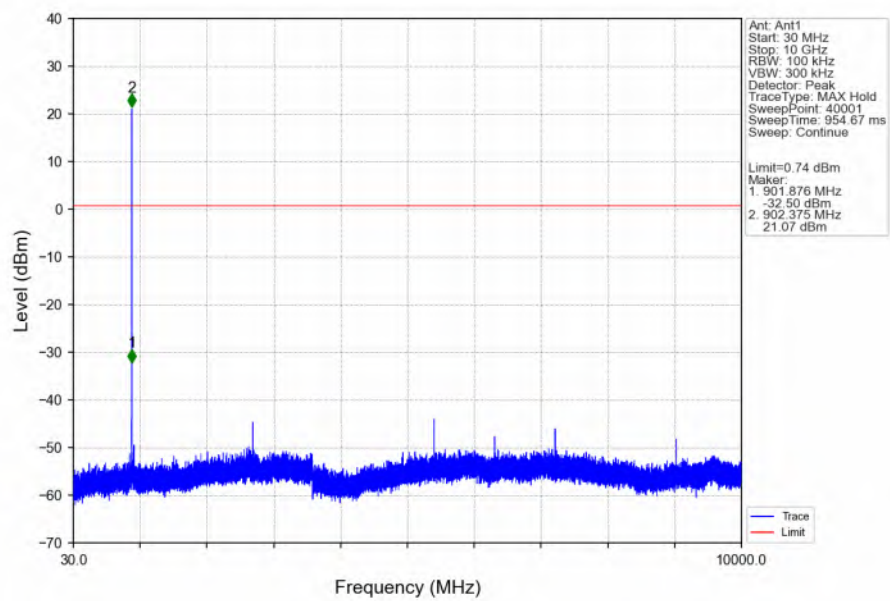


## 6.2.2 CSE

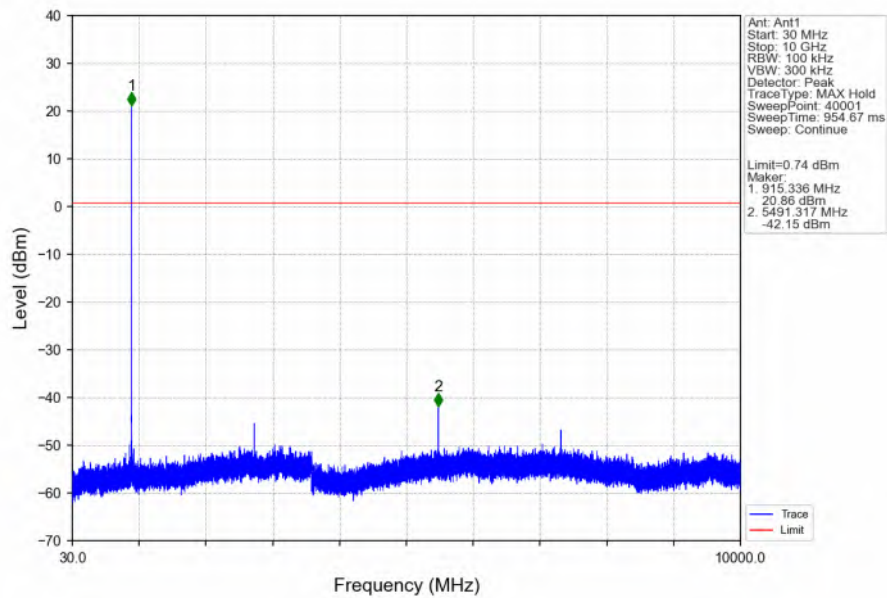
FSK\_150kbps\_LCH\_902.4MHz\_Ant1\_NTNV



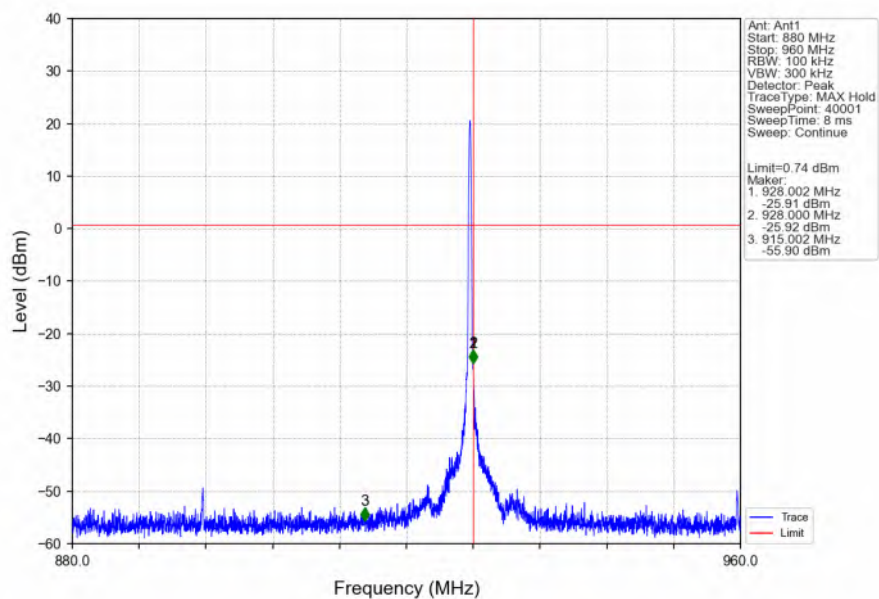
FSK\_150kbps\_LCH\_902.4MHz\_Ant1\_NTNV



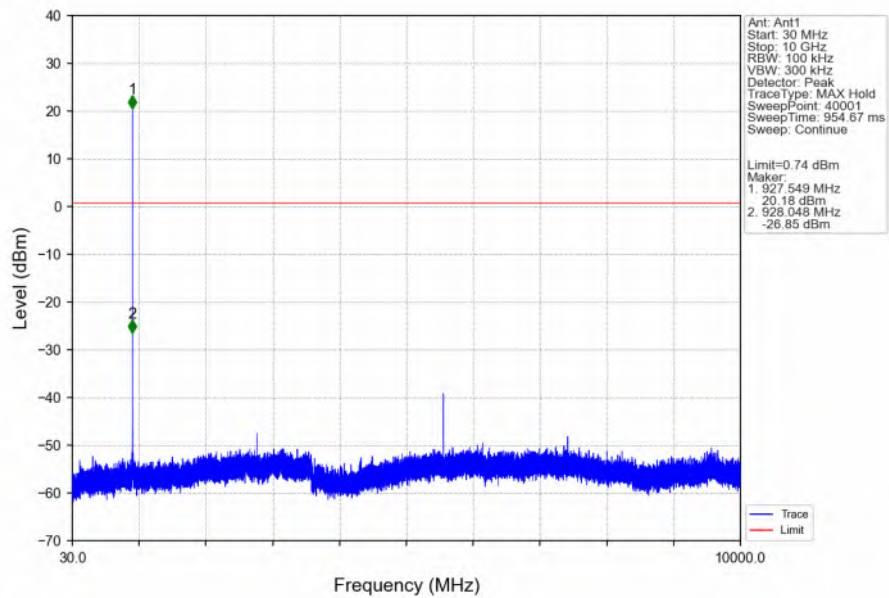
## FSK\_150kbps\_MCH\_915.2MHz\_Ant1\_NTNV



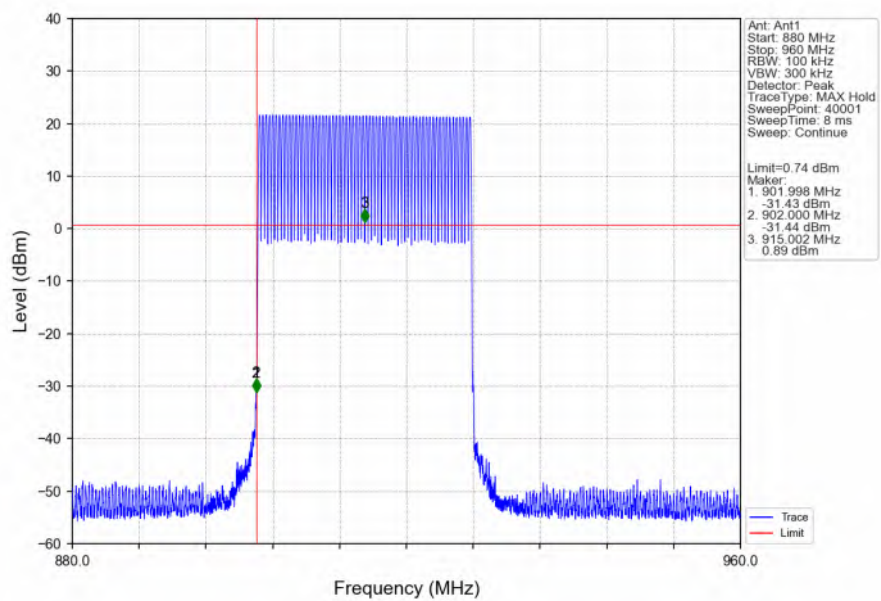
## FSK\_150kbps\_HCH\_927.6MHz\_Ant1\_NTNV



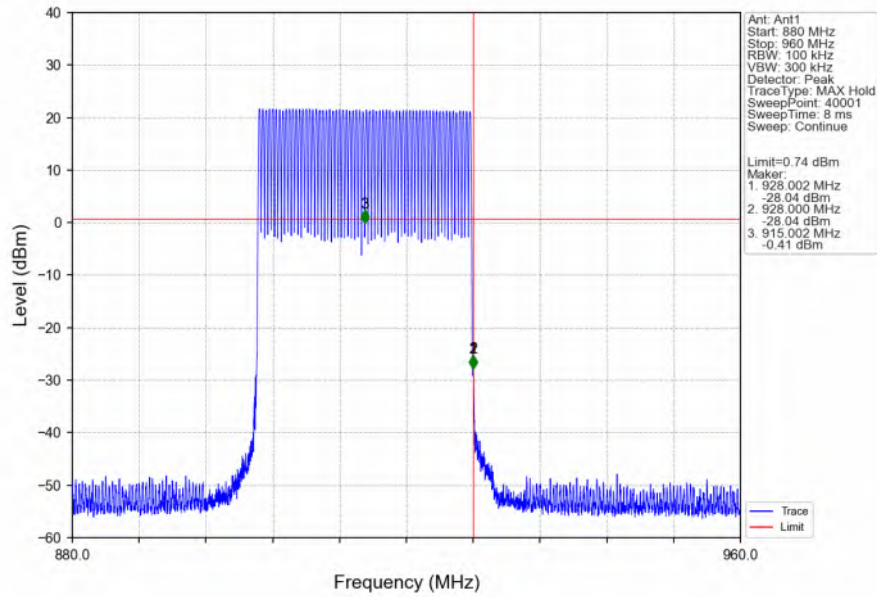
## FSK\_150kbps\_HCH\_927.6MHz\_Ant1\_NTNV



## FSK\_150kbps\_HOPP\_Ant1\_NTNV



## FSK\_150kbps\_HOPP\_Ant1\_NTNV





## FSK\_250kbps

### 1. Bandwidth

#### 1.1 Test Result

##### 1.1.1 OBW

| Mode        | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|-------------|---------|-----------------|-----|------------------------------|-------|---------|
|             |         |                 |     | Result                       | Limit |         |
| FSK_250kbps | SISO    | 902.5           | 1   | 0.163                        | /     | Pass    |
|             |         | 915             | 1   | 0.169                        | /     | Pass    |
|             |         | 927.5           | 1   | 0.198                        | /     | Pass    |

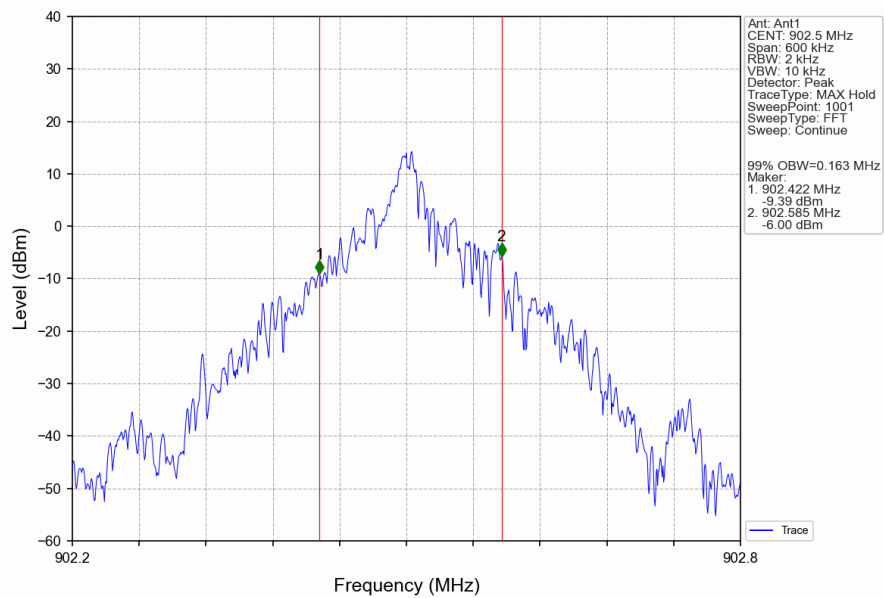
##### 1.1.2 20dB BW

| Mode        | TX Type | Frequency (MHz) | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|-------------|---------|-----------------|-----|----------------------|-------|---------|
|             |         |                 |     | Result               | Limit |         |
| FSK_250kbps | SISO    | 902.5           | 1   | 0.112                | /     | Pass    |
|             |         | 915             | 1   | 0.135                | /     | Pass    |
|             |         | 927.5           | 1   | 0.123                | /     | Pass    |

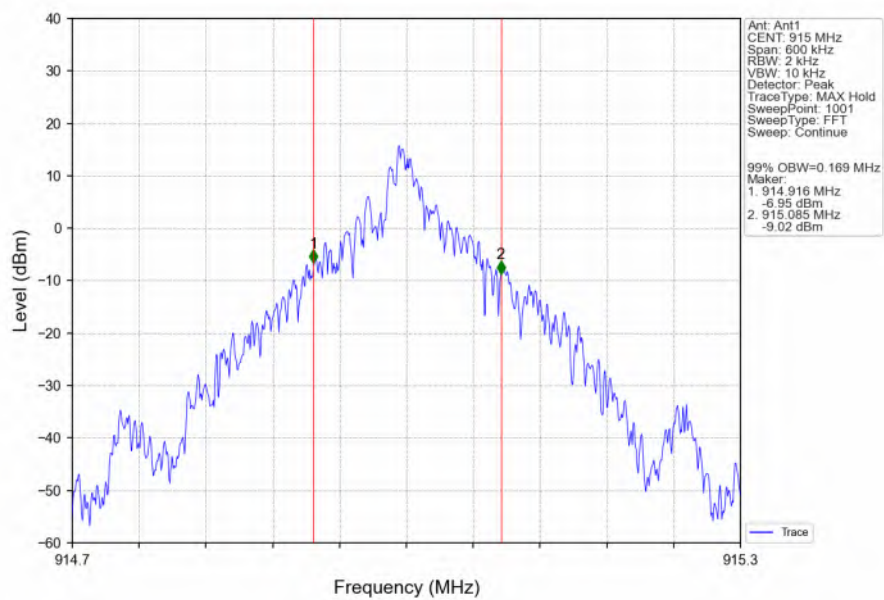
## 1.2 Test Graph

### 1.2.1 OBW

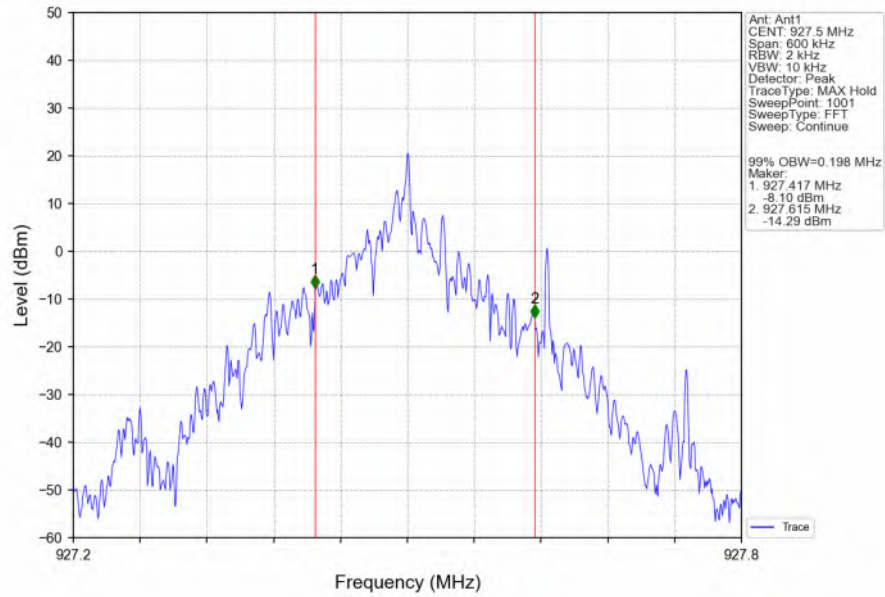
FSK\_250kbps\_LCH\_902.5MHz\_Ant1\_NTNV



FSK\_250kbps\_MCH\_915MHz\_Ant1\_NTNV

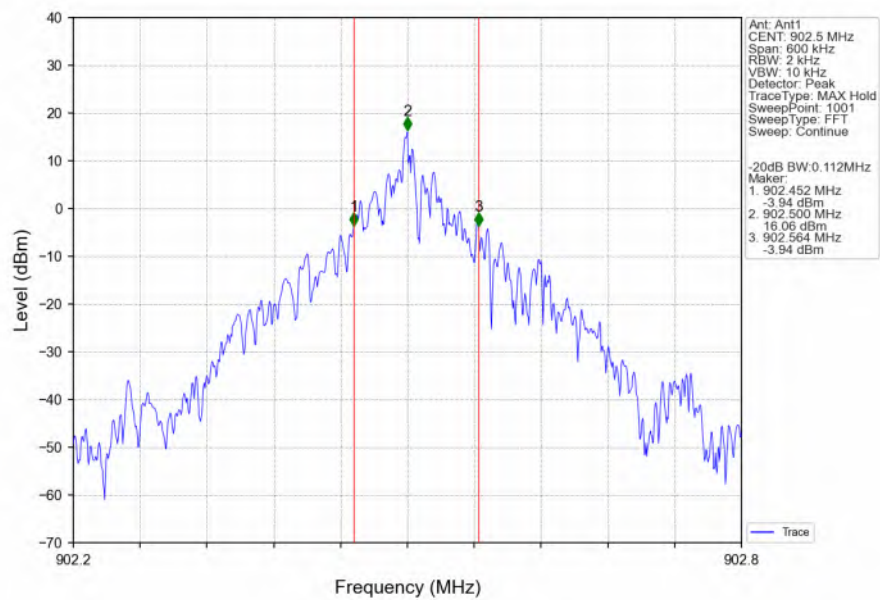


## FSK\_250kbps\_HCH\_927.5MHz\_Ant1\_NTNV

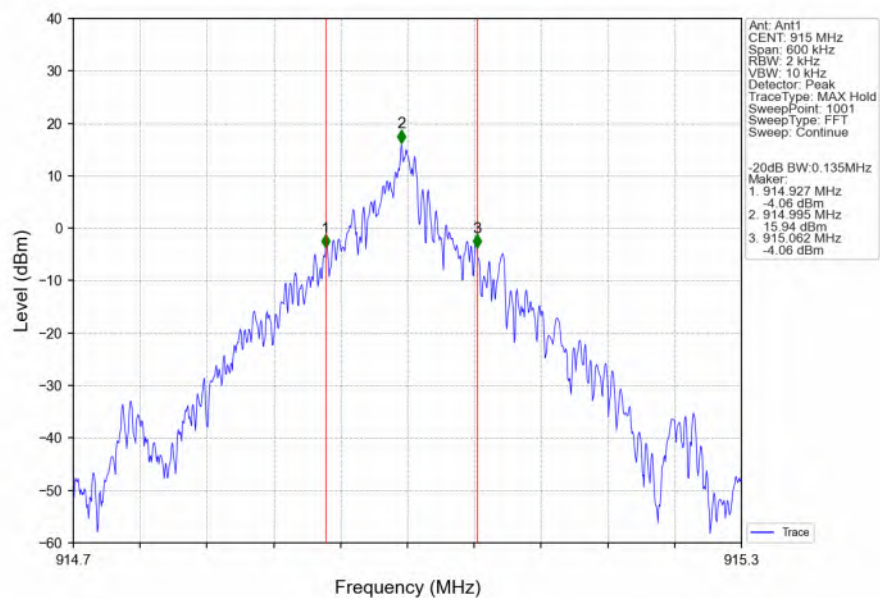


## 1.2.2 20dB BW

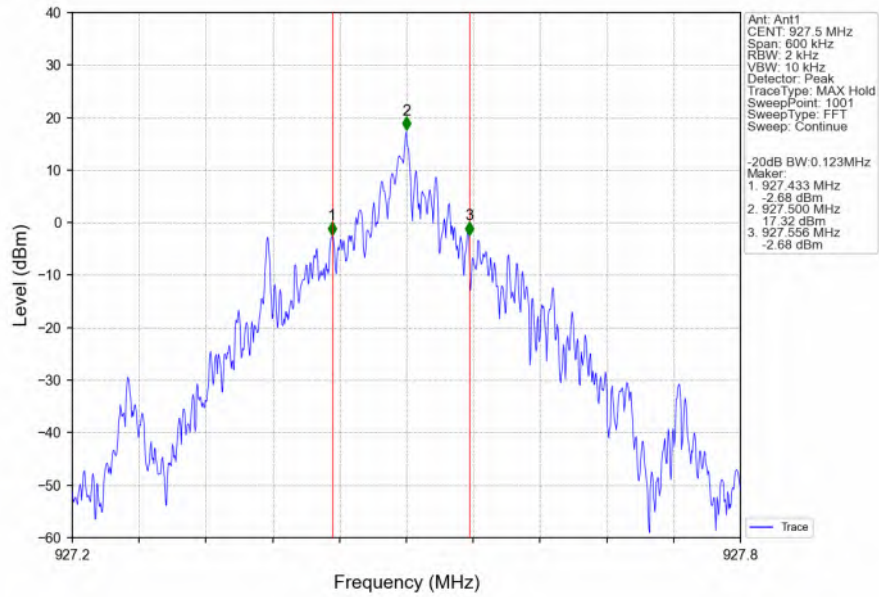
FSK\_250kbps\_LCH\_902.5MHz\_Ant1\_NTNV



FSK\_250kbps\_MCH\_915MHz\_Ant1\_NTNV



## FSK\_250kbps\_HCH\_927.5MHz\_Ant1\_NTNV





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## 2. Maximum Conducted Output Power

### 2.1 Test Result

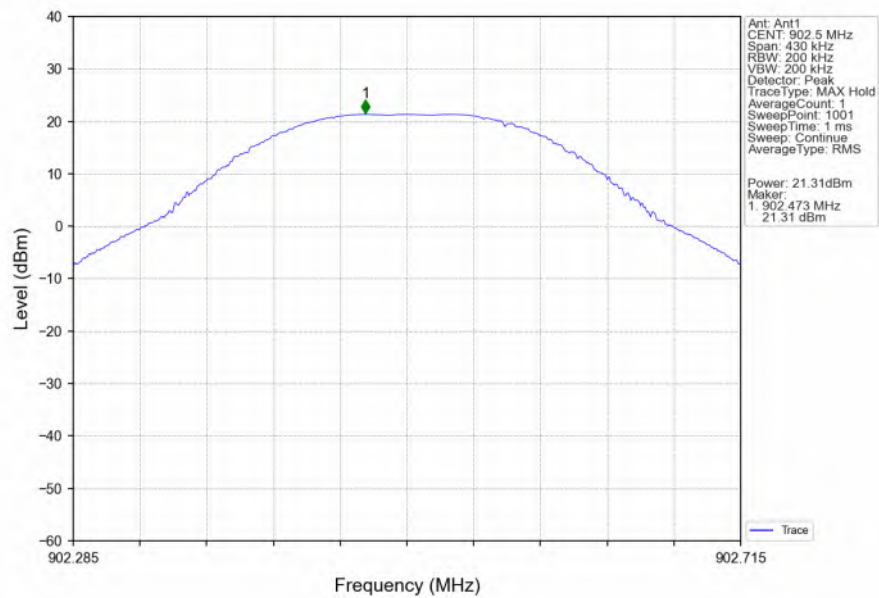
#### 2.1.1 Power

| Mode                                | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       | Verdict |
|-------------------------------------|---------|-----------------|----------------------------------------------|-------|---------|
|                                     |         |                 | ANT1                                         | Limit |         |
| FSK_250kbps                         | SISO    | 902.5           | 21.31                                        | <=30  | Pass    |
|                                     |         | 915             | 21.13                                        | <=30  | Pass    |
|                                     |         | 927.5           | 20.83                                        | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: 1.50dBi; |         |                 |                                              |       |         |

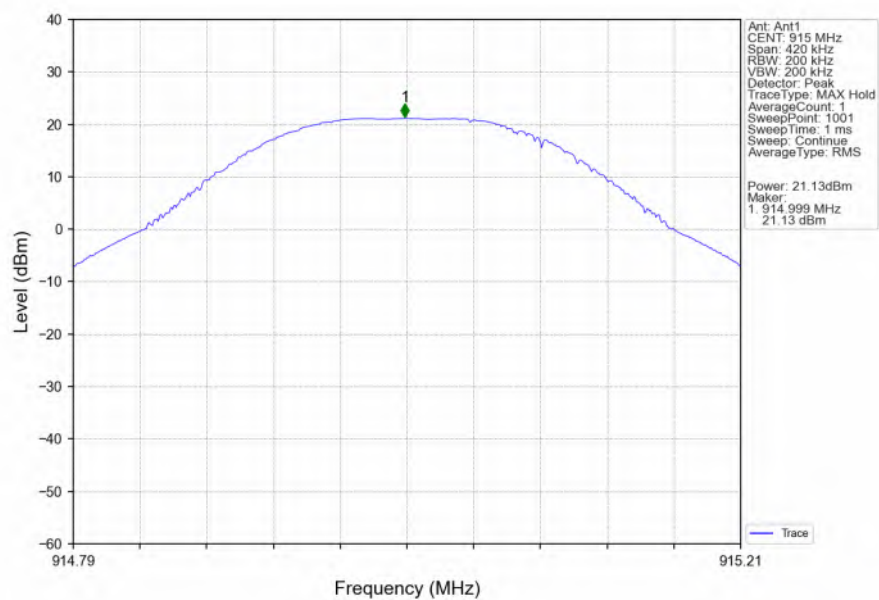
## 2.2 Test Graph

### 2.2.1 Power

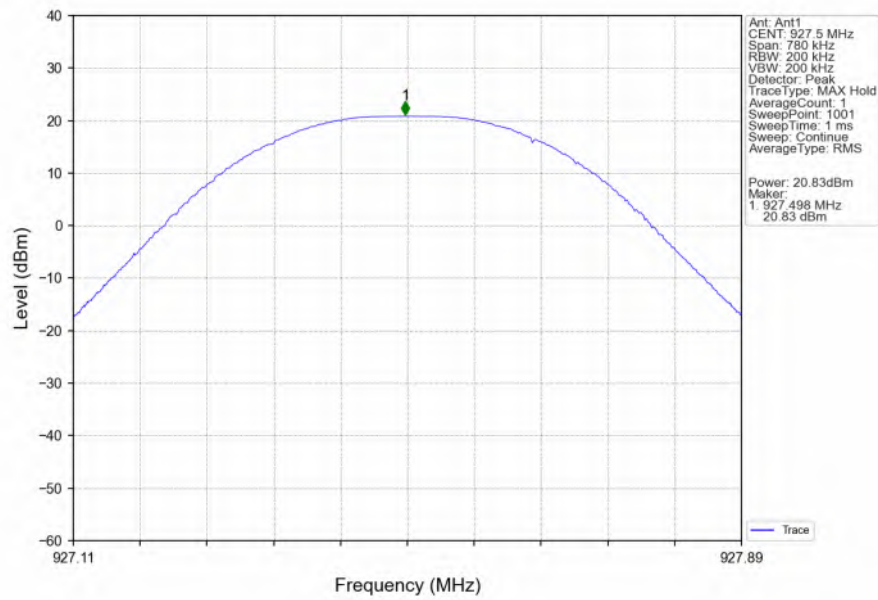
FSK\_250kbps\_LCH\_902.5MHz\_Ant1\_NTNV



FSK\_250kbps\_MCH\_915MHz\_Ant1\_NTNV



## FSK\_250kbps\_HCH\_927.5MHz\_Ant1\_NTNV





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### 3. Carrier Frequency Separation

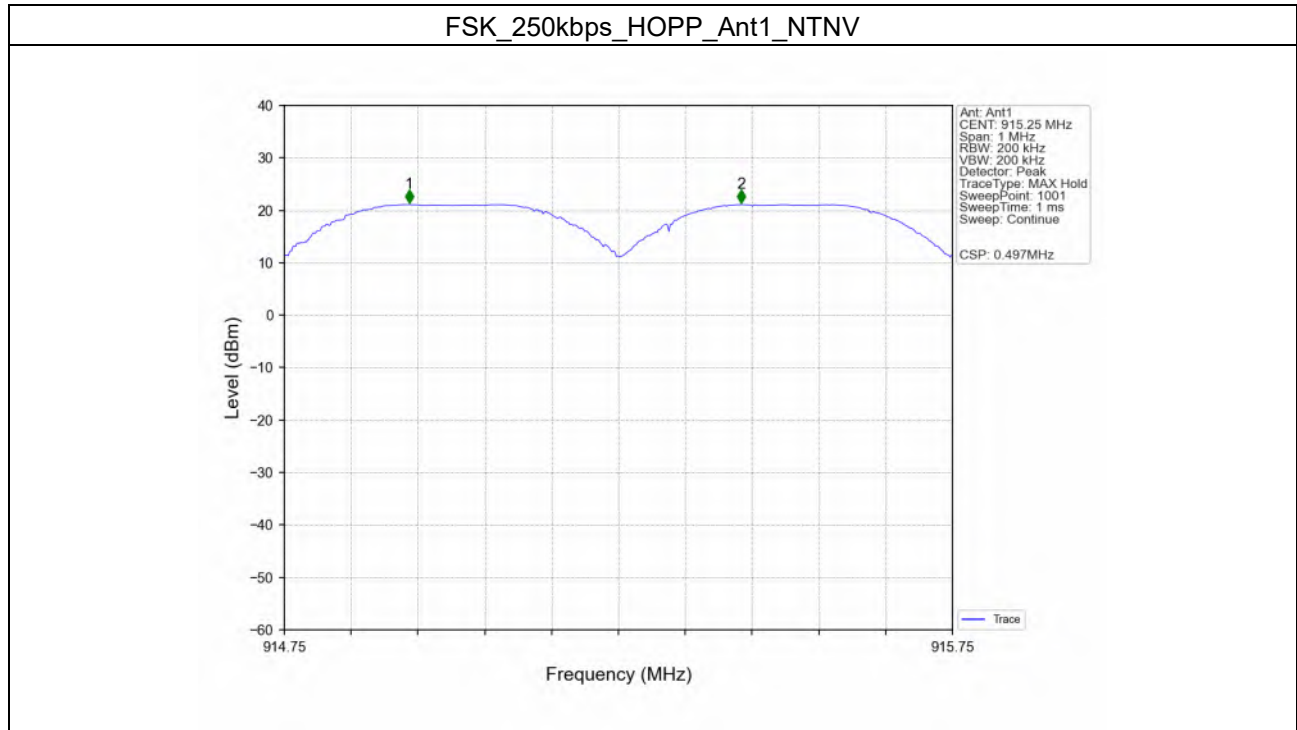
#### 3.1 Test Result

##### 3.1.1 Ant1

| Ant1        |         |                 |                          |                      |              |         |
|-------------|---------|-----------------|--------------------------|----------------------|--------------|---------|
| Mode        | TX Type | Frequency (MHz) | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| FSK_250kbps | SISO    | HOPP            | 0.497                    | 0.135                | $\geq 0.135$ | Pass    |

## 3.2 Test Graph

### 3.2.1 Ant1





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## 4. Number of Hopping Frequencies

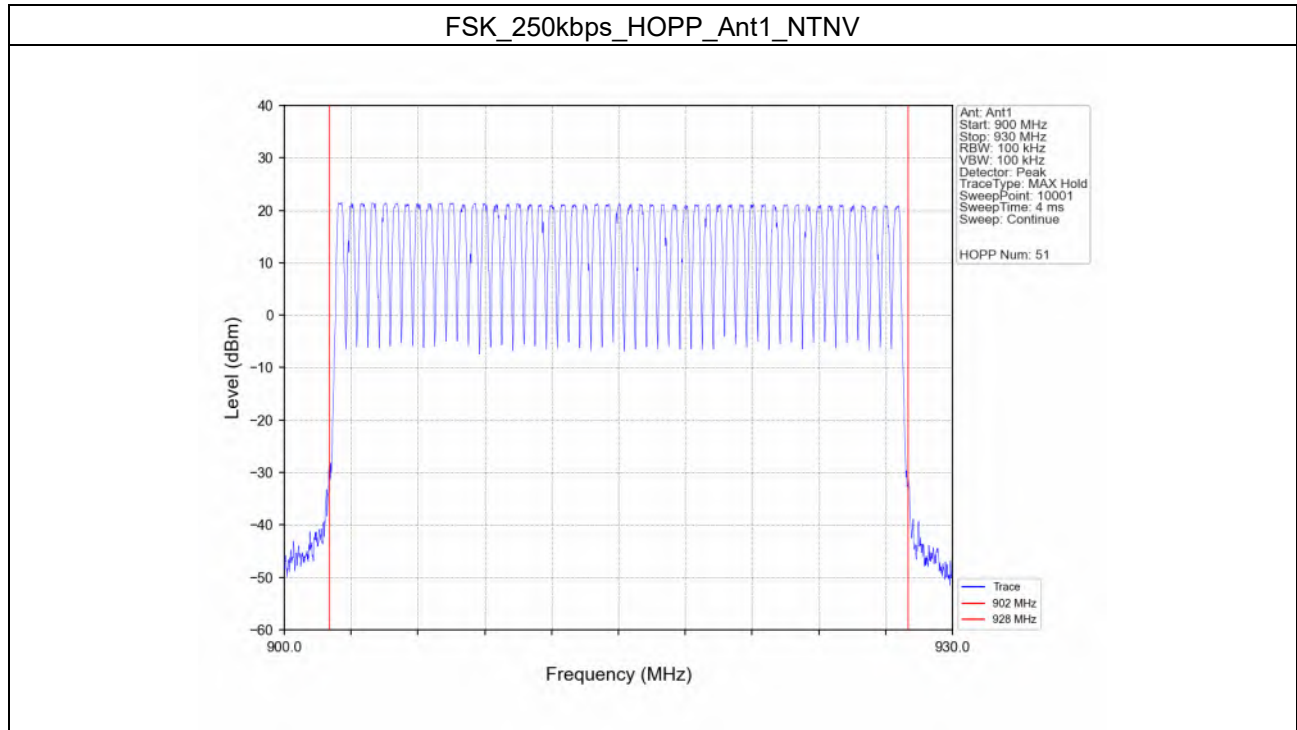
### 4.1 Test Result

#### 4.1.1 HoppNum

| Mode        | TX Type | Frequency (MHz) | Num of Hopping Frequencies |       | Verdict |
|-------------|---------|-----------------|----------------------------|-------|---------|
|             |         |                 | ANT1                       | Limit |         |
| FSK_250kbps | SISO    | HOPP            | 51                         | >=50  | Pass    |

## 4.2 Test Graph

### 4.2.1 HoppNum





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## 5. Time of Occupancy (Dwell Time)

### 5.1 Test Result

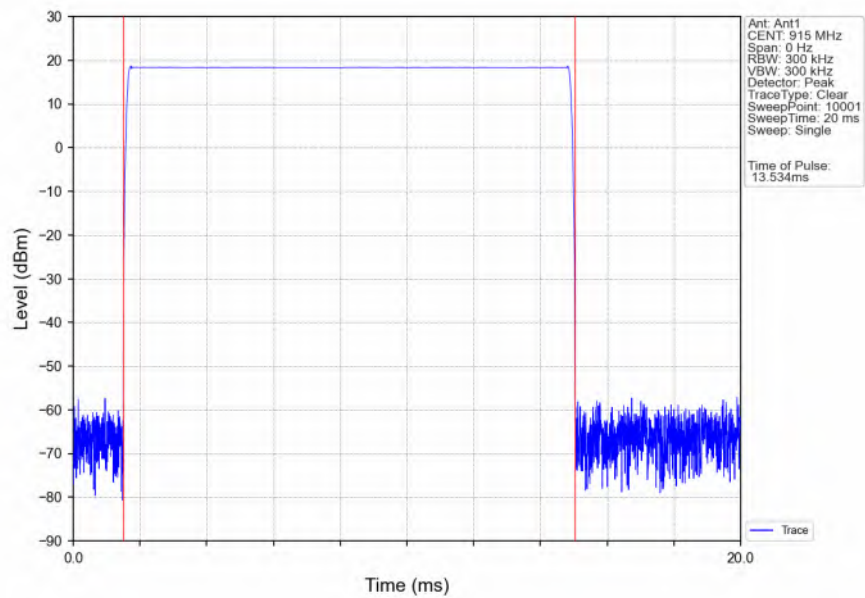
#### 5.1.1 Ant1

| Ant1        |         |                 |                               |                        |                                    |                 |            |         |
|-------------|---------|-----------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode        | TX Type | Frequency (MHz) | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| FSK_250kbps | SISO    | HOPP            | 13.534                        | 20.000                 | 1                                  | 13.534          | <=400      | Pass    |

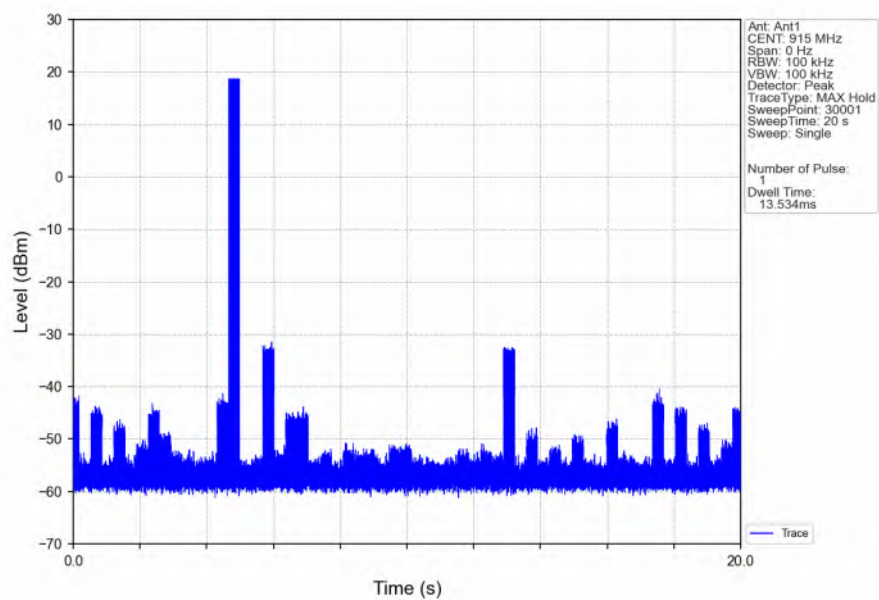
## 5.2 Test Graph

### 5.2.1 Ant1

FSK\_250kbps\_HOPP\_Ant1\_NTNV



FSK\_250kbps\_HOPP\_Ant1\_NTNV



## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Test Result

#### 6.1.1 Ref

| Mode        | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|-------------|---------|-----------------|-----|--------------------------|
| FSK_250kbps | SISO    | 902.5           | 1   | 21.32                    |
|             |         | 915             | 1   | 21.11                    |
|             |         | 927.5           | 1   | 20.85                    |

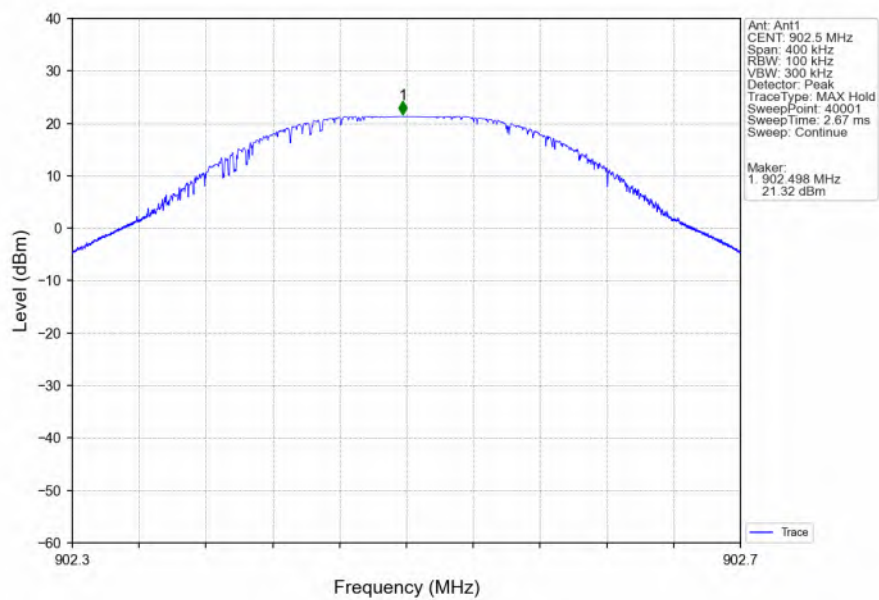
#### 6.1.2 CSE

| Mode        | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------|---------|-----------------|-----|--------------------------|-------------|---------|
| FSK_250kbps | SISO    | 902.5           | 1   | 21.32                    | 1.32        | Pass    |
|             |         | 915             | 1   | 21.32                    | 1.32        | Pass    |
|             |         | 927.5           | 1   | 21.32                    | 1.32        | Pass    |
|             |         | HOPP            | 1   | 21.32                    | 1.32        | Pass    |
|             |         |                 |     | 21.32                    | 1.32        | Pass    |

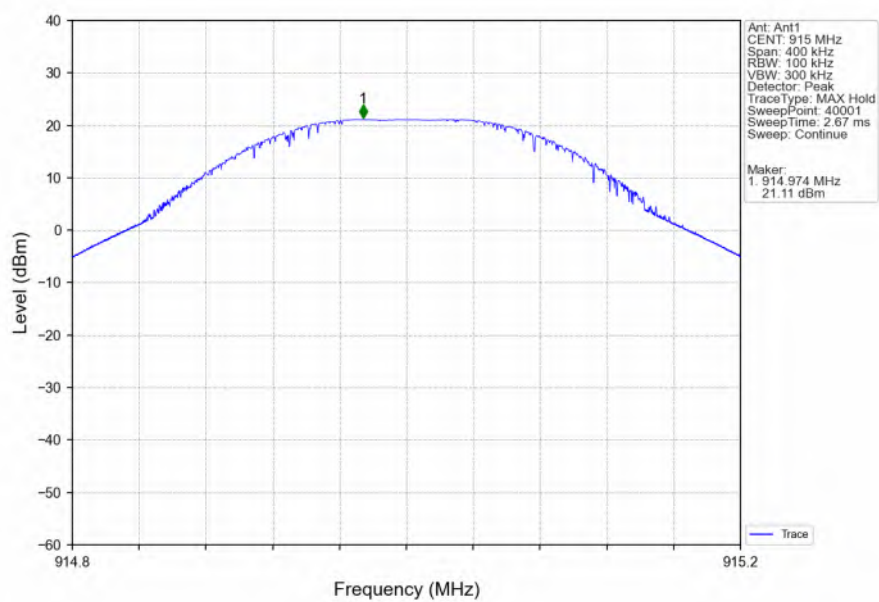
## 6.2 Test Graph

### 6.2.1 Ref

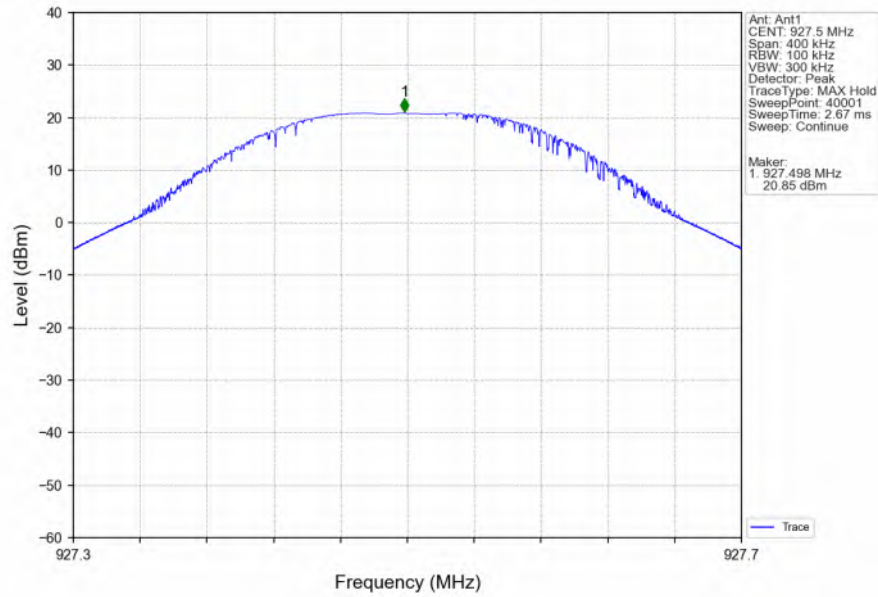
FSK\_250kbps\_LCH\_902.5MHz\_Ant1\_NTNV



FSK\_250kbps\_MCH\_915MHz\_Ant1\_NTNV

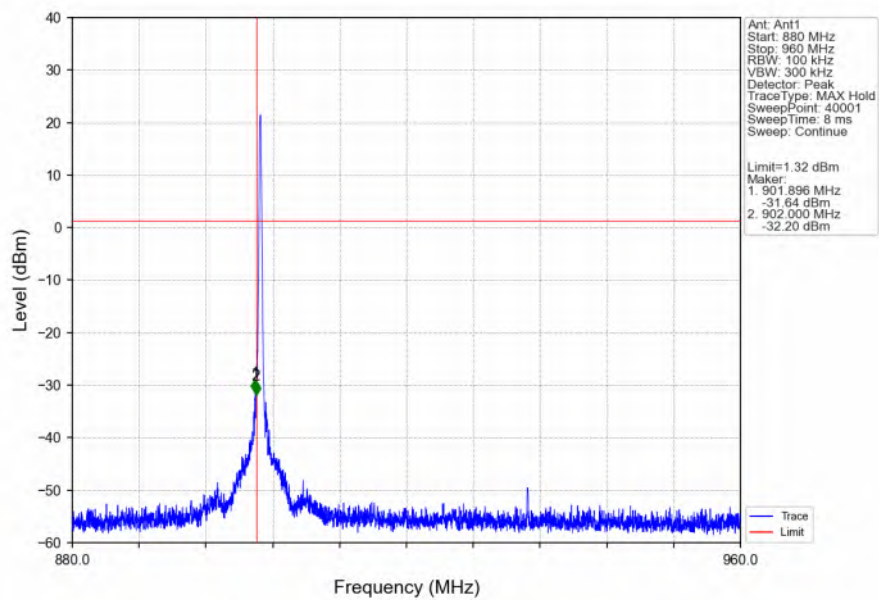


## FSK\_250kbps\_HCH\_927.5MHz\_Ant1\_NTNV

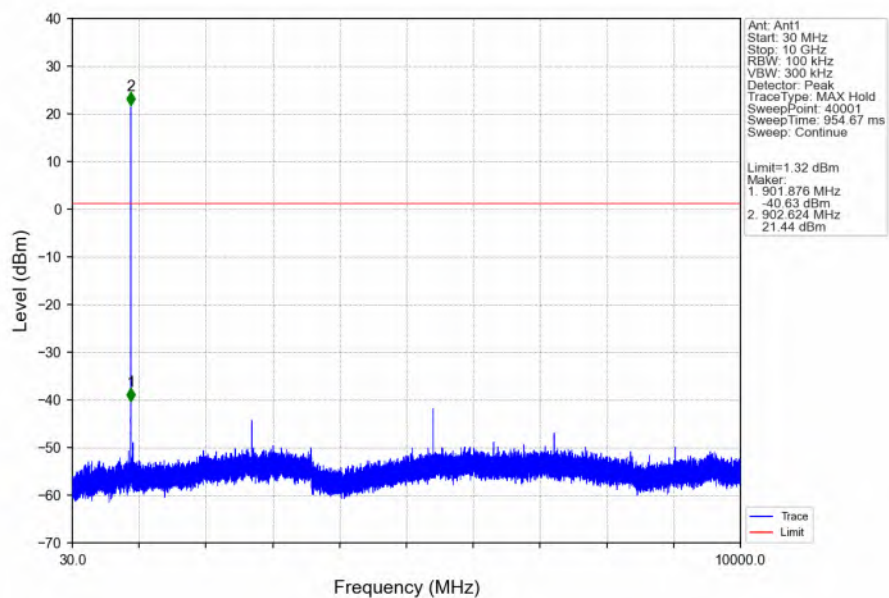


## 6.2.2 CSE

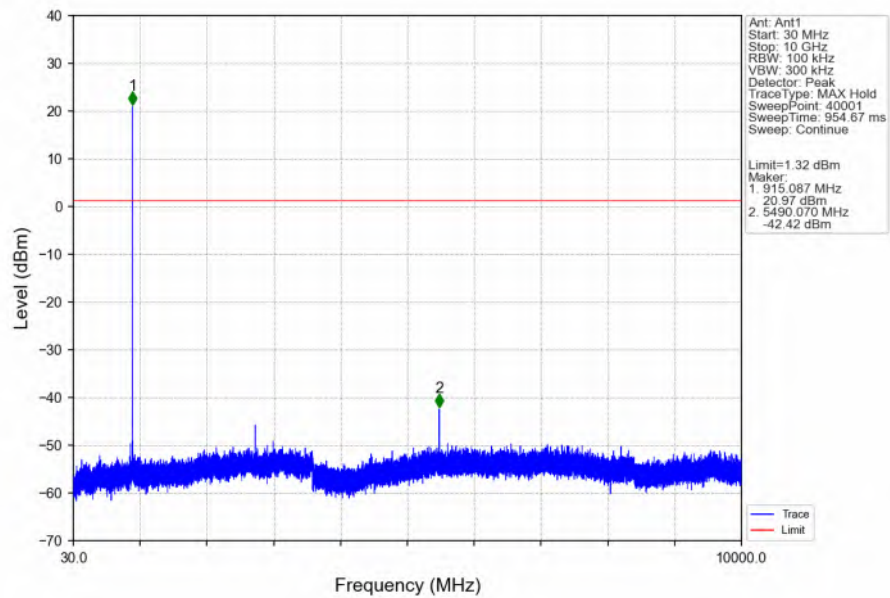
FSK\_250kbps\_LCH\_902.5MHz\_Ant1\_NTNV



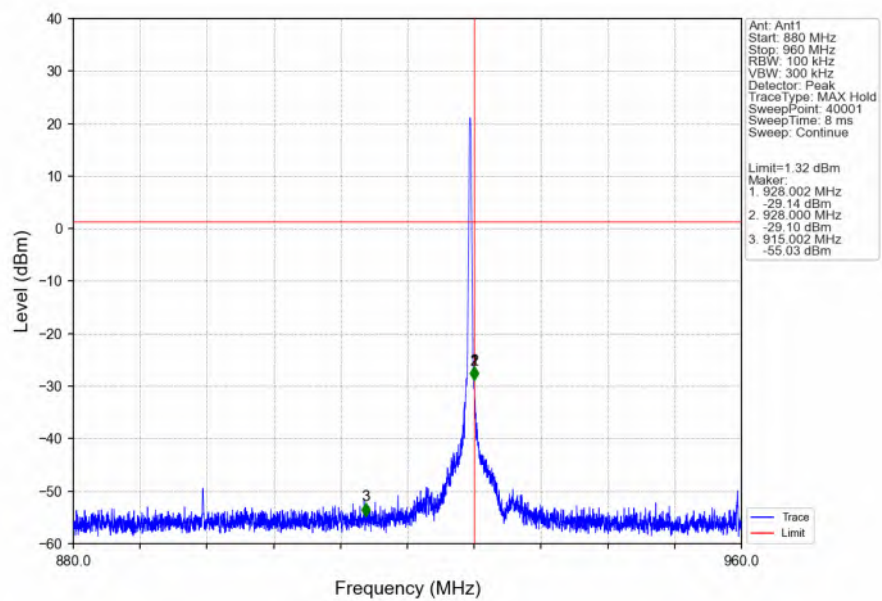
FSK\_250kbps\_LCH\_902.5MHz\_Ant1\_NTNV



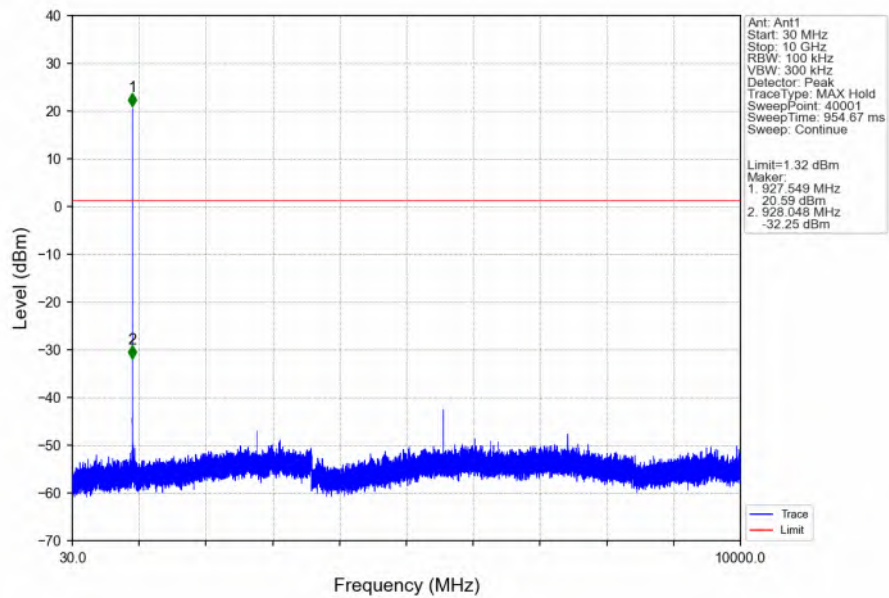
## FSK\_250kbps\_MCH\_915MHz\_Ant1\_NTNV



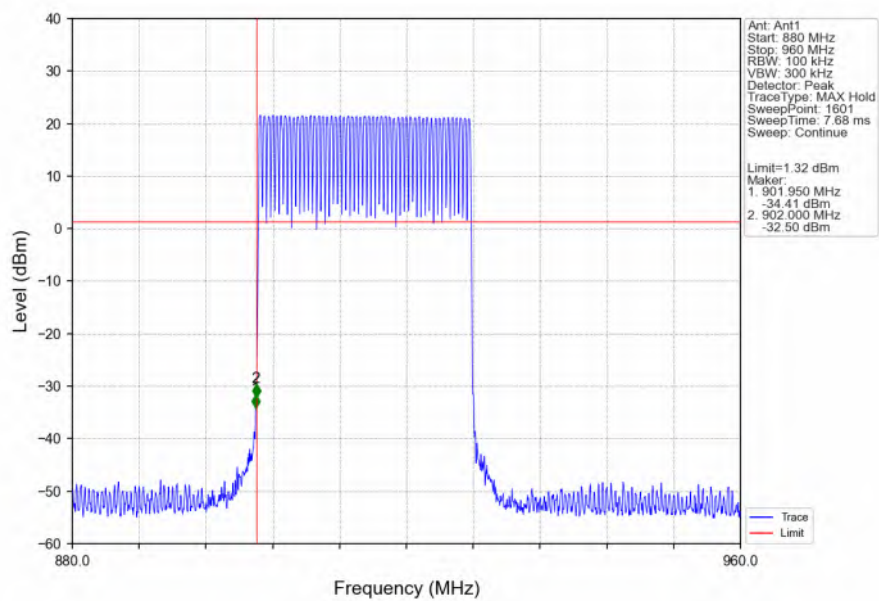
## FSK\_250kbps\_HCH\_927.5MHz\_Ant1\_NTNV

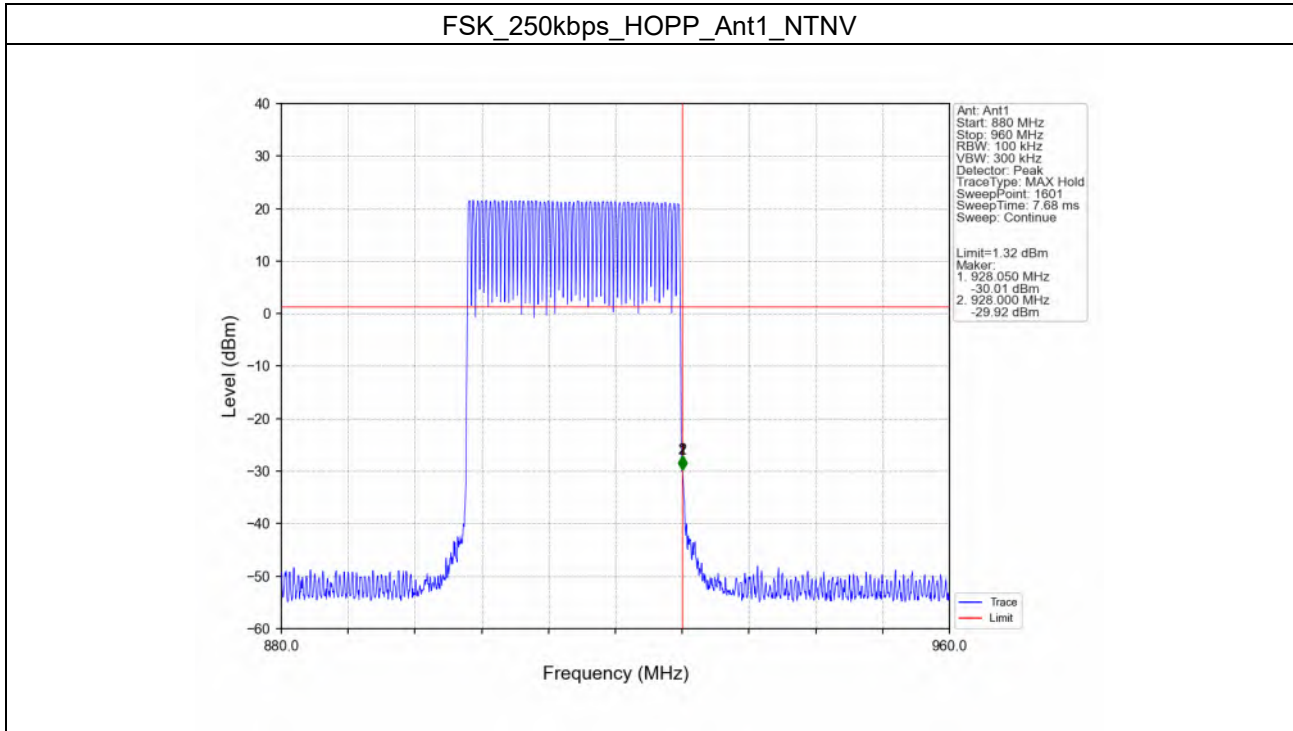


FSK\_250kbps\_HCH\_927.5MHz\_Ant1\_NTNV



FSK\_250kbps\_HOPP\_Ant1\_NTNV





## 7. Frequency Error

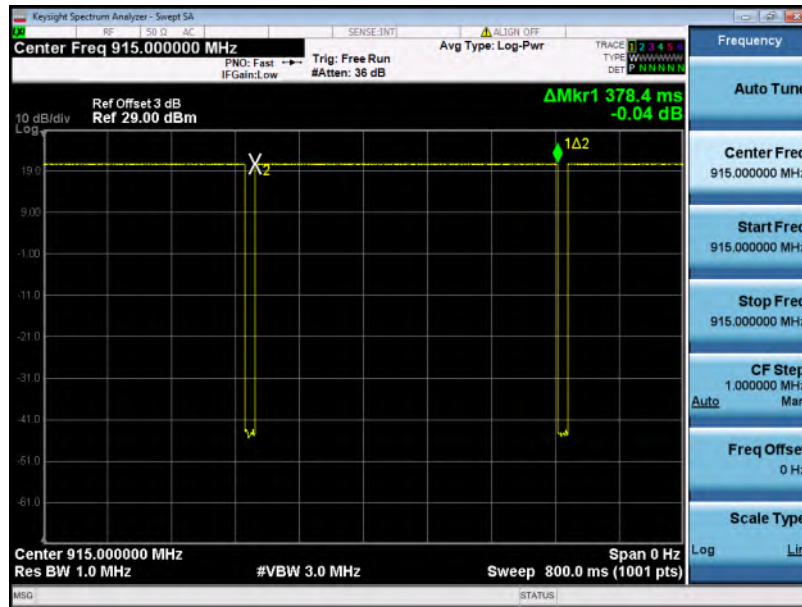
### 7.1 Test Result

#### 7.1.1 Ant1

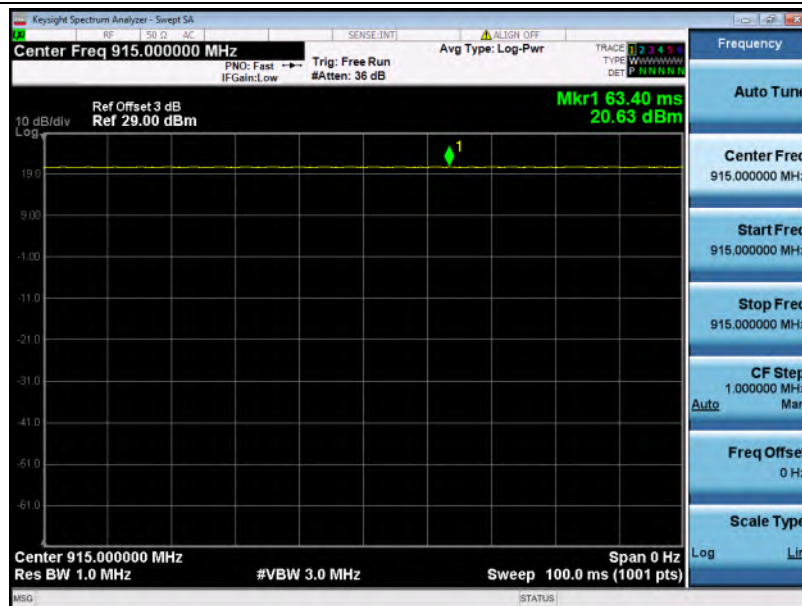
| Ant1         |         |                 |                  |               |                          |                    |         |
|--------------|---------|-----------------|------------------|---------------|--------------------------|--------------------|---------|
| Mode         | TX Type | Frequency (MHz) | Temperature (°C) | Voltage (VDC) | Measured Frequency (MHz) | Limit (MHz)        | Verdict |
| FHSS-250kbps | SISO    | 902.5           | 20               | 2.805         | 902.500                  | 902.435 to 902.565 | Pass    |
|              |         |                 |                  | 3.300         | 902.499                  | 902.435 to 902.565 | Pass    |
|              |         |                 |                  | 3.795         | 902.500                  | 902.435 to 902.565 | Pass    |
|              |         |                 | -20              | 3.300         | 902.499                  | 902.435 to 902.565 | Pass    |
|              |         |                 | 50               | 3.300         | 902.500                  | 902.435 to 902.565 | Pass    |
|              |         | 915             | 20               | 2.805         | 915.000                  | 914.932 to 915.068 | Pass    |
|              |         |                 |                  | 3.300         | 915.001                  | 914.932 to 915.068 | Pass    |
|              |         |                 |                  | 3.795         | 915.000                  | 914.932 to 915.068 | Pass    |
|              |         |                 | -20              | 3.300         | 915.000                  | 914.932 to 915.068 | Pass    |
|              |         |                 | 50               | 3.300         | 915.001                  | 914.932 to 915.068 | Pass    |
|              |         | 927.5           | 20               | 2.805         | 927.501                  | 927.421 to 927.579 | Pass    |
|              |         |                 |                  | 3.300         | 927.501                  | 927.421 to 927.579 | Pass    |
|              |         |                 |                  | 3.795         | 927.501                  | 927.421 to 927.579 | Pass    |
|              |         |                 | -20              | 3.300         | 927.502                  | 927.421 to 927.579 | Pass    |
|              |         |                 | 50               | 3.300         | 927.501                  | 927.421 to 927.579 | Pass    |

## Duty Cycle Plots

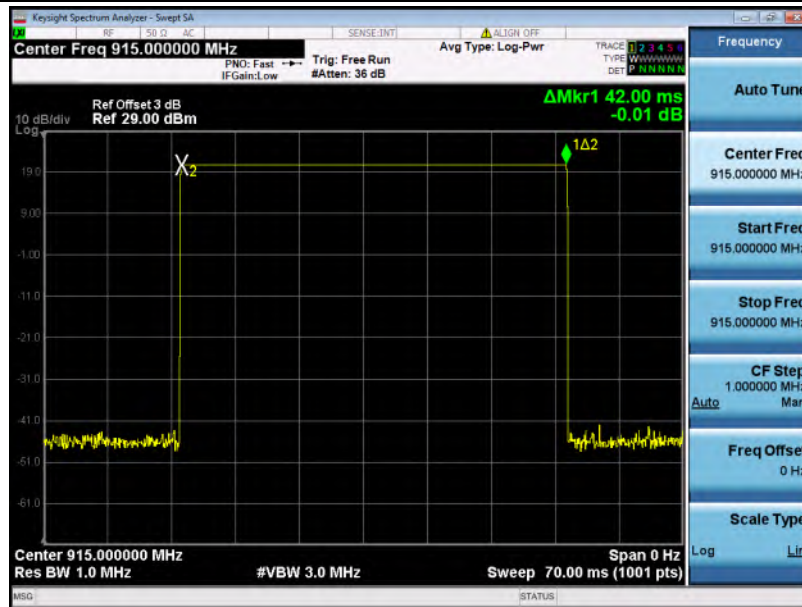
CSS\_125KHz on time(One Pules)Plot on 915MHz



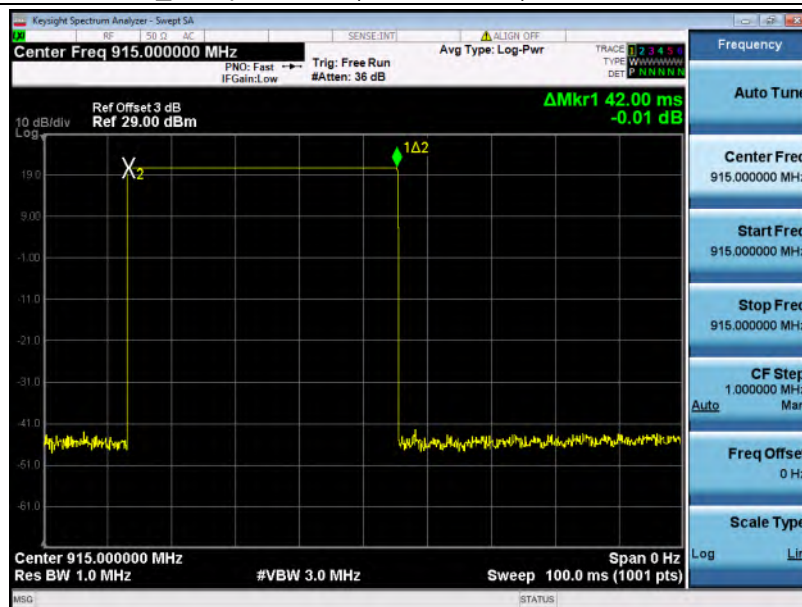
CSS\_125KHz on time(Count Pulses)Plot on 915MHz



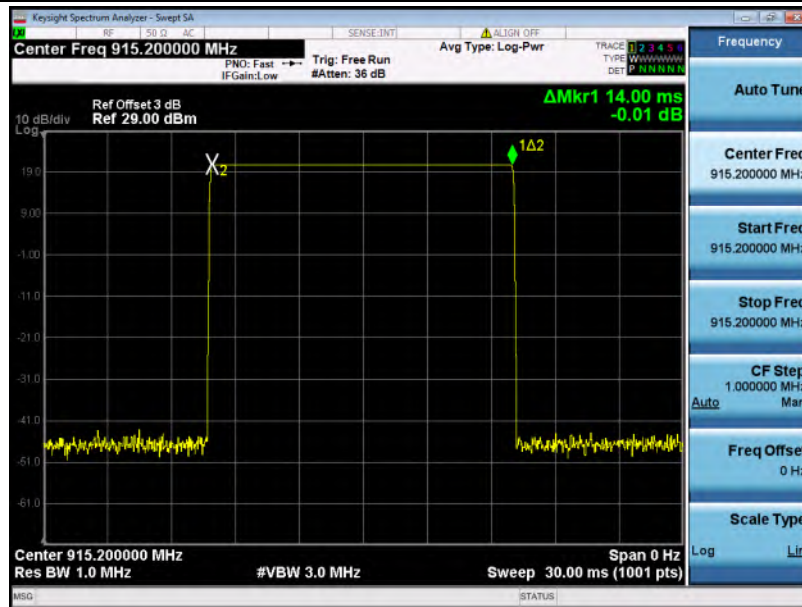
FSK\_50kbps on time(One Pules)Plot on 915MHz



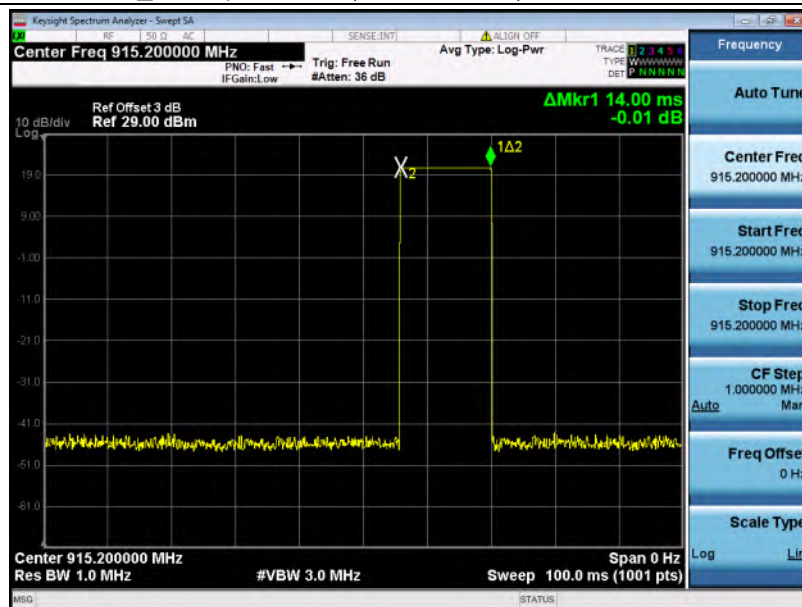
FSK\_50kbps on time(Count Pulses)Plot on 915MHz



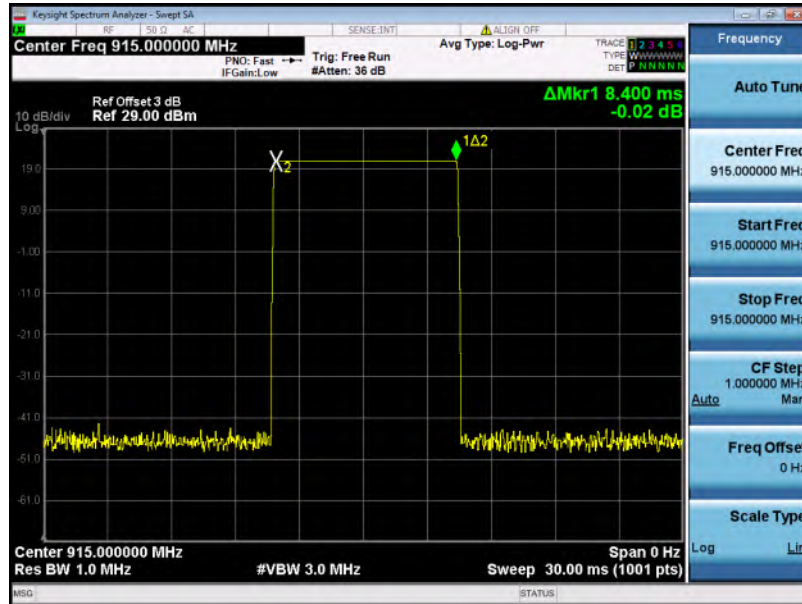
FSK\_150kbps on time(One Pules)Plot on 915.2MHz



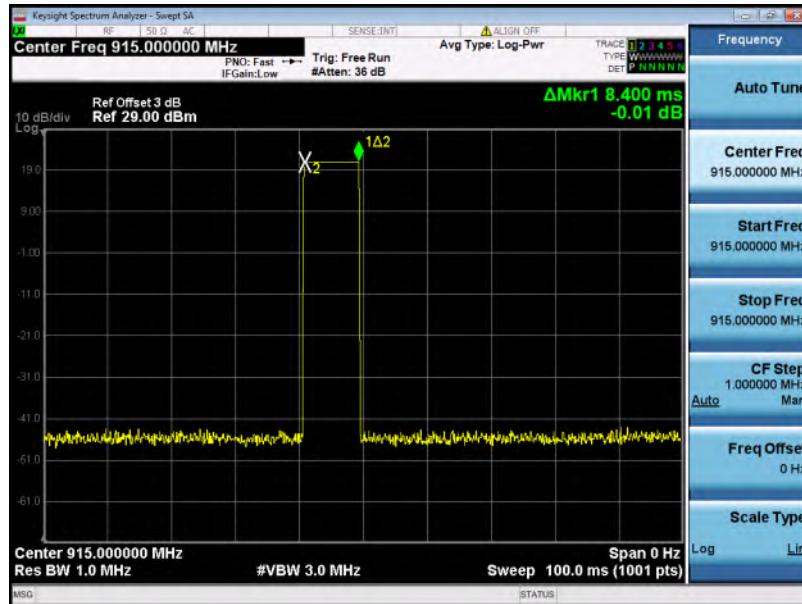
FSK\_150kbps on time(Count Pulses)Plot on 915.2MHz



FSK\_250kbps on time(One Pules)Plot on 915MHz



FSK\_250kbps on time(Count Pules)Plot on 915MHz



### The process and drawings of RSE-AVG

| Ant1        |         |                 |                          |                      |
|-------------|---------|-----------------|--------------------------|----------------------|
| Mode        | TX Type | Frequency (MHz) | Channel Separation (MHz) | 20dB Bandwidth (MHz) |
| CSS_125KHz  | SISO    | HOPP            | 0.2                      | 0.137                |
| FSK_50kbps  | SISO    | HOPP            | 0.2                      | 0.105                |
| FSK_150kbps | SISO    | HOPP            | 0.419                    | 0.153                |
| FSK_250kbps | SISO    | HOPP            | 0.497                    | 0.135                |

Note:

Channel separation correction

CSS\_125KHz: Channel Separation <1MHz, Channel separation correction=1/0.2=5

FSK\_50kbps: Channel Separation <1MHz, Channel separation correction=1/0.2=5

FSK\_150kbps: Channel Separation <1MHz, Channel separation correction=1/0.419=2.39

FSK\_250kbps: Channel Separation <1MHz, Channel separation correction=1/0.497=2.01

Overlapping channel correction

CSS\_125KHz: Overlapping channel correction = 0

FSK\_50kbps: Overlapping channel correction = 0

FSK\_150kbps: Overlapping channel correction = 0

FSK\_250kbps: Overlapping channel correction = 0

| Test mode   | Dwell time per 100 ms | Channel separation correction | Overlapping channel correction | Maximum dwell time in 100ms |
|-------------|-----------------------|-------------------------------|--------------------------------|-----------------------------|
| CSS_125KHz  | 100                   | 5                             | 0                              | 100                         |
| FSK_50kbps  | 42                    | 5                             | 0                              | 100                         |
| FSK_150kbps | 14                    | 2.39                          | 0                              | 33.46                       |
| FSK_250kbps | 8.4                   | 2.01                          | 0                              | 16.884                      |

Note: Maximum dwell time per 1MHz= Dwell time per 100 ms per Channel\*( Channel separation correction+ Overlapping channel correction)

| Test Mode   | Factor |
|-------------|--------|
| CSS_125KHz  | 0      |
| FSK_50kbps  | 0      |
| FSK_150kbps | -9.51  |
| FSK_250kbps | -15.45 |

Factor=20\*log(Maximum dwell time in 100 ms/100)

- End of the Report -