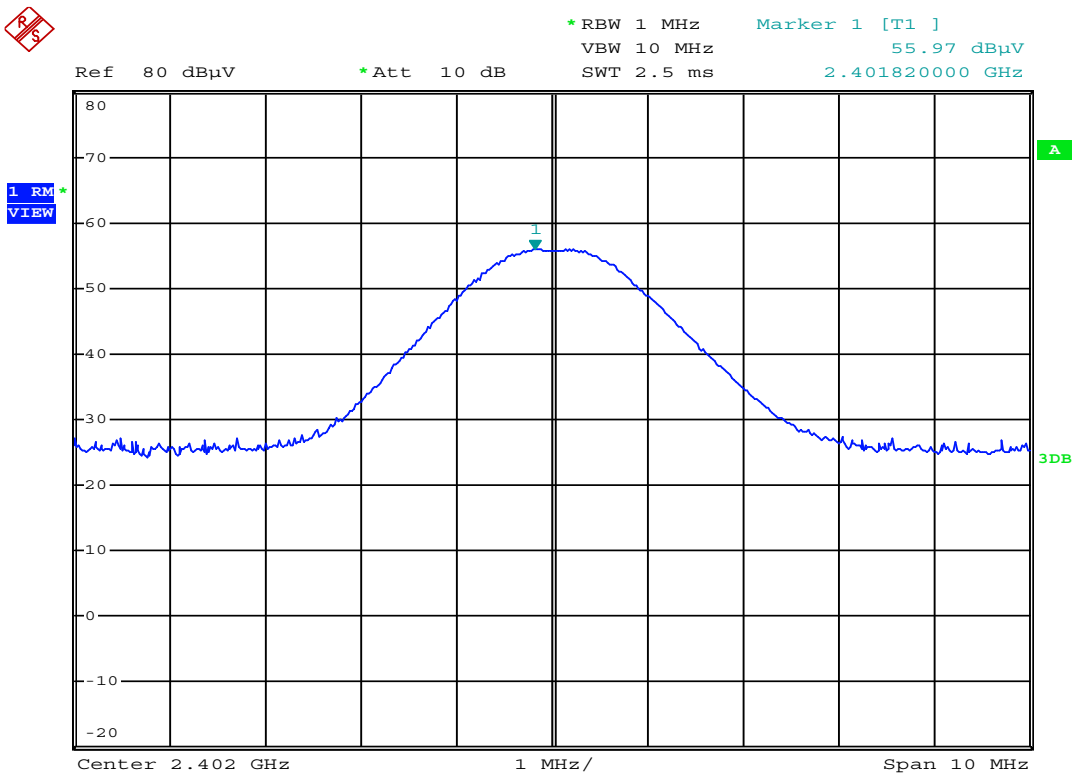


| FCC §15.249(a), RSS-210 Radiated Field Strength |       |            |                       |          |                             |                                                                        |                                             |                                     |                                                                        |                     |                    |
|-------------------------------------------------|-------|------------|-----------------------|----------|-----------------------------|------------------------------------------------------------------------|---------------------------------------------|-------------------------------------|------------------------------------------------------------------------|---------------------|--------------------|
| Frequency<br><br>(MHz)                          | Mode  | Modulation | Bit<br>Rate<br>(Mbps) | Detector | Antenna<br><br>Polarization | Measured<br>Field Strength<br><br>[FS <sub>Meas</sub> ]<br>(dBuV @ 3m) | Cable<br>Loss<br>[L <sub>c</sub> ]<br>(dBm) | Receive<br>Antenna<br>[ACF]<br>(dB) | Corrected<br>Field Strength<br><br>[FS <sub>Corr</sub> ]<br>(dBuV @3m) | Limit<br><br>(dBuV) | Margin<br><br>(dB) |
| 2402.0                                          | BT BR | GFSK       | -                     | RMS      | Horizontal                  | 55.97                                                                  | 4.6                                         | 28.28                               | 88.85                                                                  | 94.0                | 5.2                |
| 2441.0                                          |       |            |                       |          |                             | 55.20                                                                  | 4.7                                         | 28.22                               | 88.12                                                                  |                     | 5.9                |
| 2480.0                                          |       |            |                       |          |                             | 55.01                                                                  | 4.8                                         | 28.17                               | 87.98                                                                  |                     | 6.0                |
| 2402.0                                          |       |            |                       |          | Vertical                    | 42.20                                                                  | 4.6                                         | 28.28                               | 75.08                                                                  |                     | 18.9               |
| 2441.0                                          |       |            |                       |          |                             | 44.55                                                                  | 4.7                                         | 28.22                               | 77.47                                                                  |                     | 16.5               |
| 2480.0                                          |       |            |                       |          |                             | 42.03                                                                  | 4.8                                         | 28.17                               | 75.00                                                                  |                     | 19.0               |
| 2402.0                                          |       |            |                       | Peak     | Horizontal                  | 56.21                                                                  | 4.6                                         | 28.28                               | 89.09                                                                  | 114.0               | 24.9               |
| 2441.0                                          |       |            |                       |          |                             | 55.65                                                                  | 4.7                                         | 28.22                               | 88.57                                                                  |                     | 25.4               |
| 2480.0                                          |       |            |                       |          |                             | 55.51                                                                  | 4.8                                         | 28.17                               | 88.48                                                                  |                     | 25.5               |
| 2402.0                                          |       |            |                       |          | Vertical                    | 43.66                                                                  | 4.6                                         | 28.28                               | 76.54                                                                  |                     | 37.5               |
| 2441.0                                          |       |            |                       |          |                             | 46.20                                                                  | 4.7                                         | 28.22                               | 79.12                                                                  |                     | 34.9               |
| 2480.0                                          |       |            |                       |          |                             | 43.94                                                                  | 4.8                                         | 28.17                               | 76.91                                                                  |                     | 37.1               |
| Result:                                         |       |            |                       |          |                             |                                                                        |                                             |                                     | Complies                                                               |                     |                    |

$$FS_{Corr} = FS_{Meas} + ACF + L_c$$

$$Margin = Limit - FS_{Corr}$$

## Field Strength (Average)



Date: 3.JUN.2021 14:23:27

Channel Frequency (MHz): **2402**

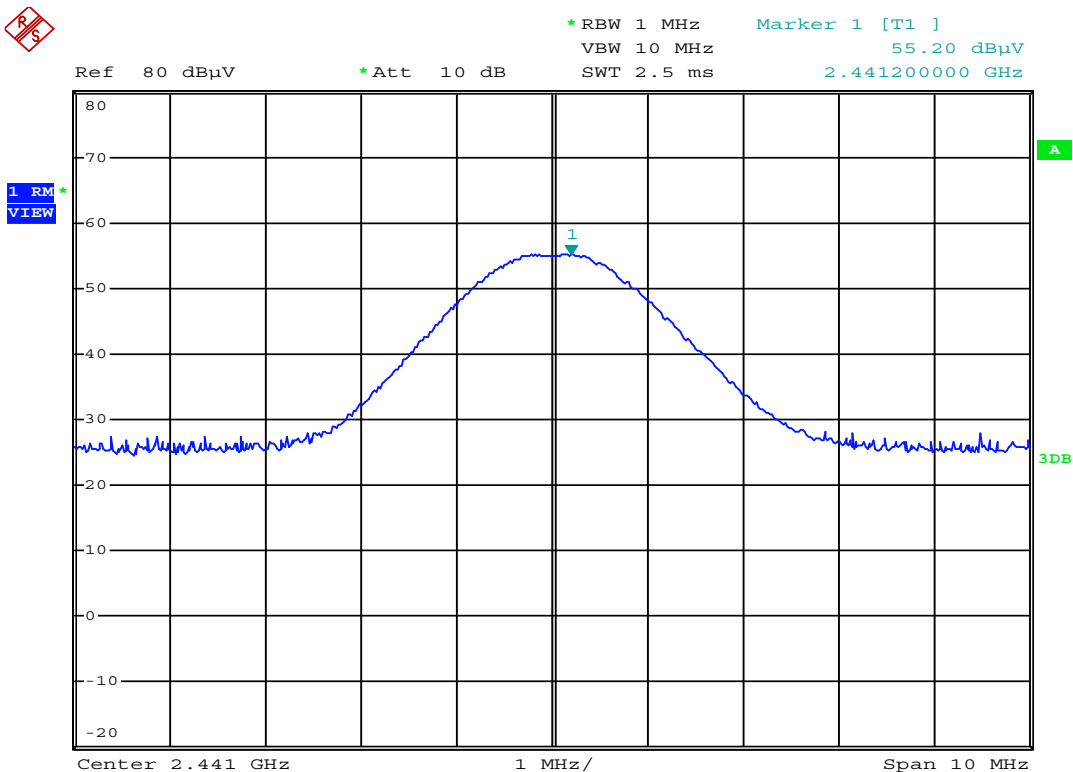
Antenna Polarization: **H**

Channel Power (dBuV): **55.97**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

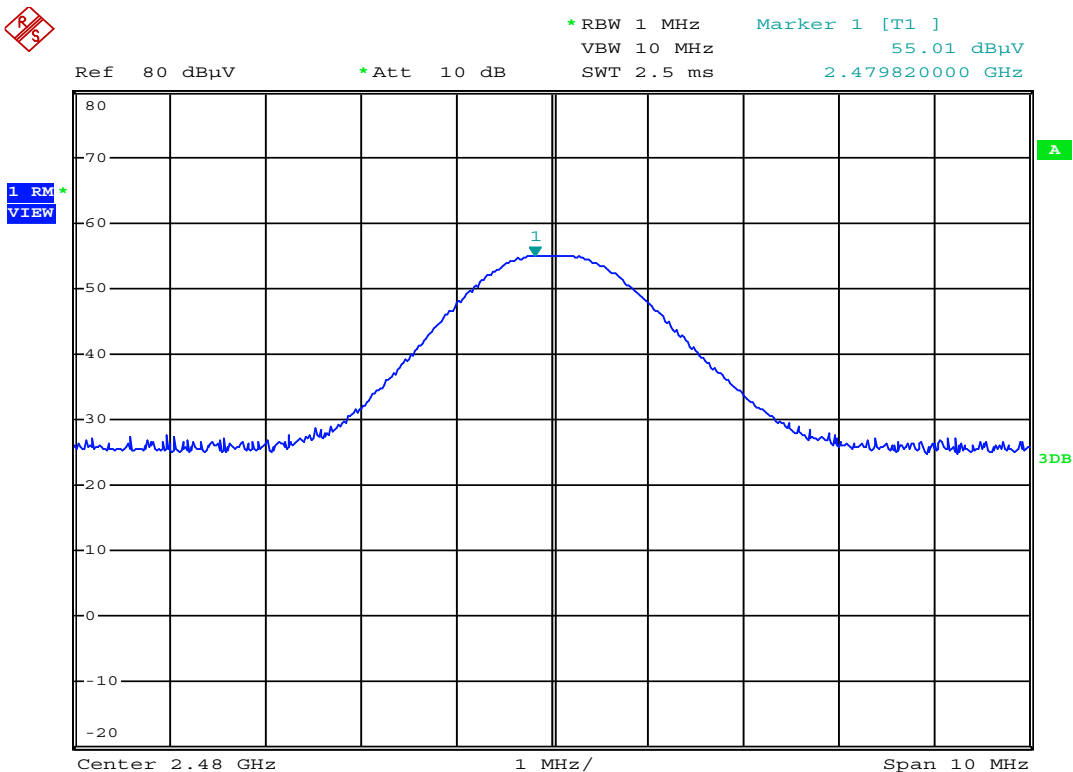
# Field Strength (Average)



Date: 3.JUN.2021 14:35:27

|                          |      |                       |   |                       |       |
|--------------------------|------|-----------------------|---|-----------------------|-------|
| Channel Frequency (MHz): | 2441 | Antenna Polarization: | H | Channel Power (dBuV): | 55.20 |
| Modulation:              | GFSK | Bit Rate (Mbps):      | - |                       |       |

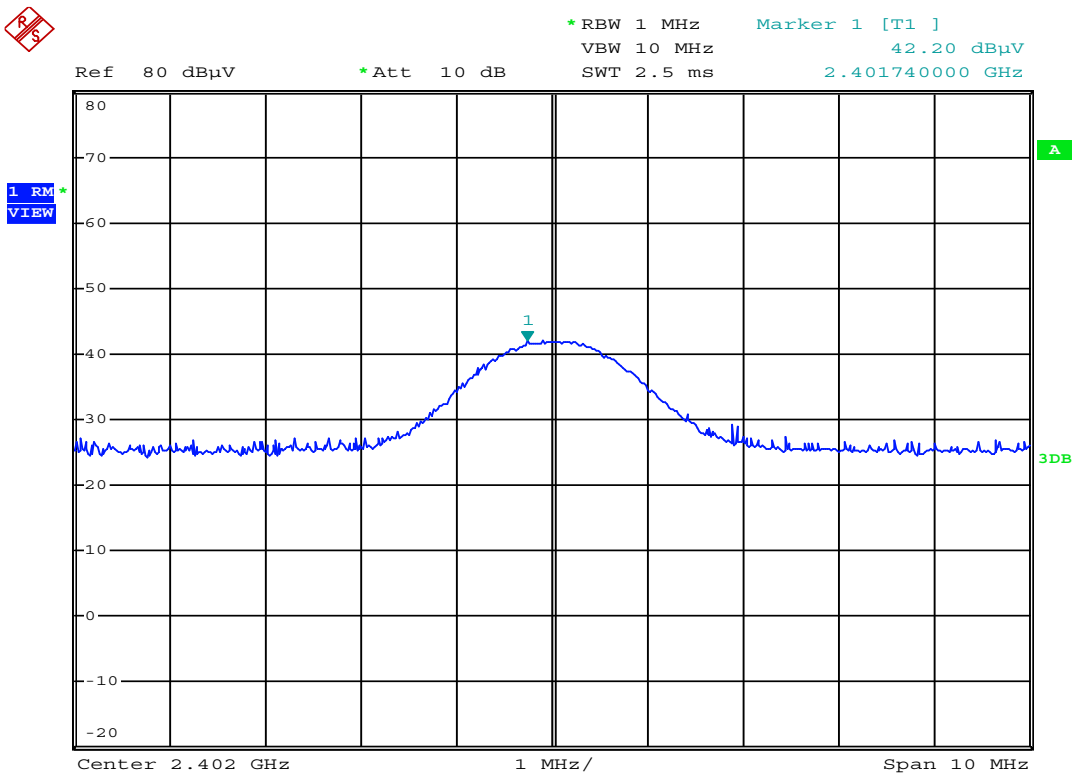
# Field Strength (Average)



Date: 3.JUN.2021 14:32:51

|                                      |                                |                                    |
|--------------------------------------|--------------------------------|------------------------------------|
| Channel Frequency (MHz): <b>2480</b> | Antenna Polarization: <b>H</b> | Channel Power (dBμV): <b>55.01</b> |
| Modulation: <b>GFSK</b>              | Bit Rate (Mbps): <b>-</b>      |                                    |

# Field Strength (Average)



Date: 3.JUN.2021 14:26:18

|                                      |                                |                                    |
|--------------------------------------|--------------------------------|------------------------------------|
| Channel Frequency (MHz): <b>2402</b> | Antenna Polarization: <b>V</b> | Channel Power (dBuV): <b>42.20</b> |
| Modulation: <b>GFSK</b>              | Bit Rate (Mbps): <b>-</b>      |                                    |

# Field Strength (Average)

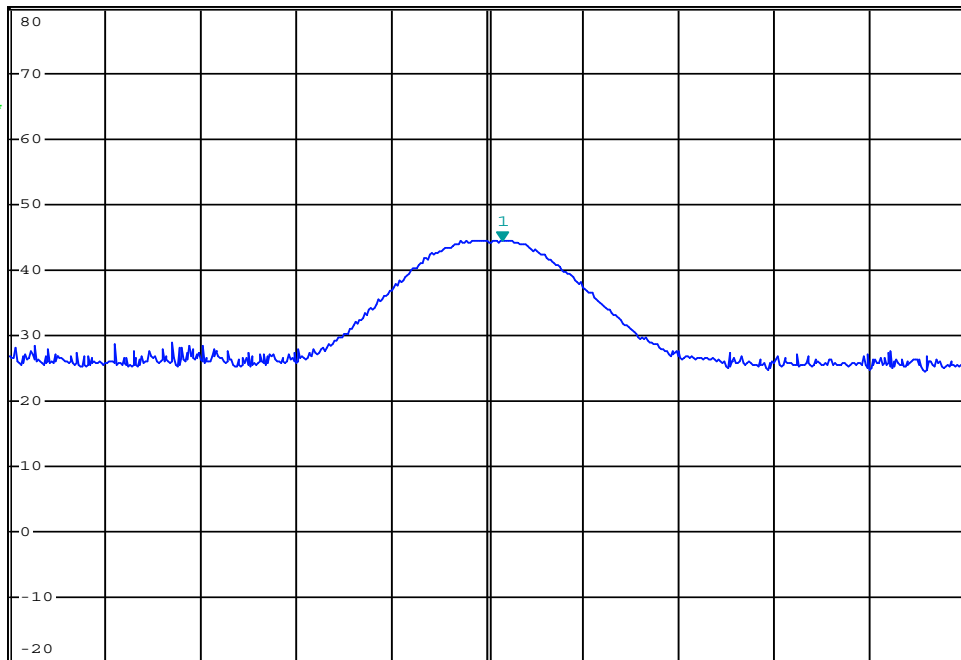


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 10 MHz      44.55 dBuV  
 SWT 2.5 ms      2.441160000 GHz

Ref 80 dBuV

\*Att 10 dB

1 RM  
 VIEW



Center 2.441 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:37:56

Channel Frequency (MHz): **2441**

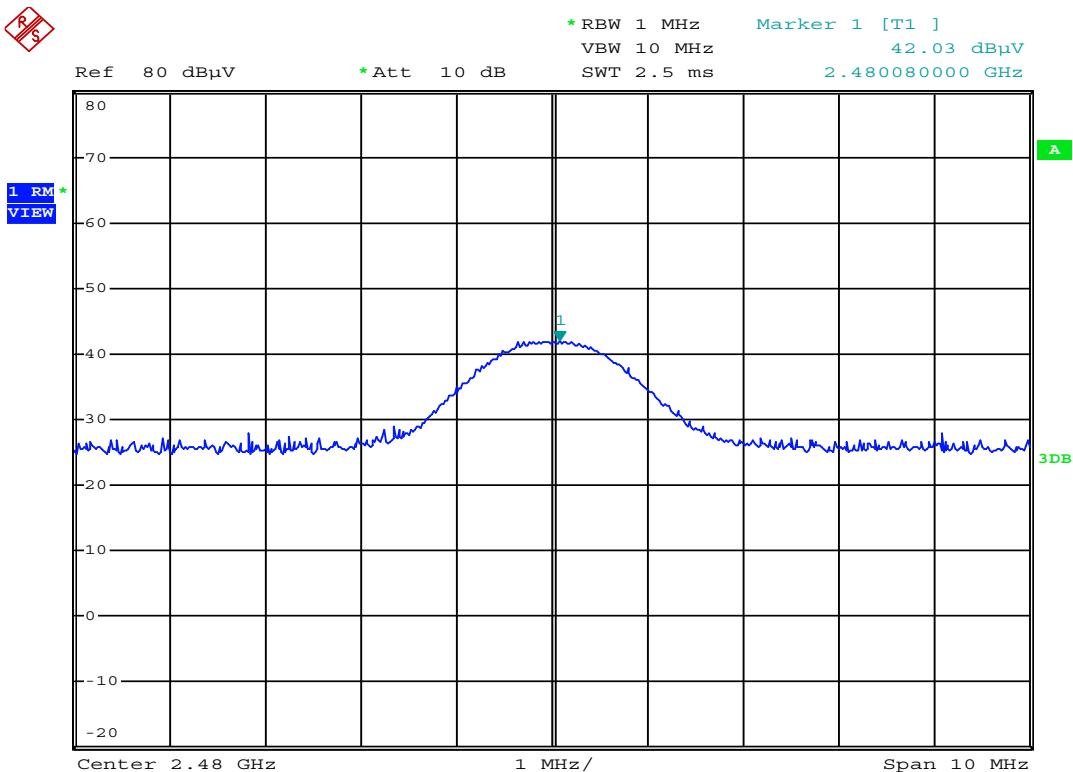
Antenna Polarization: **V**

Channel Power (dBuV): **44.55**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

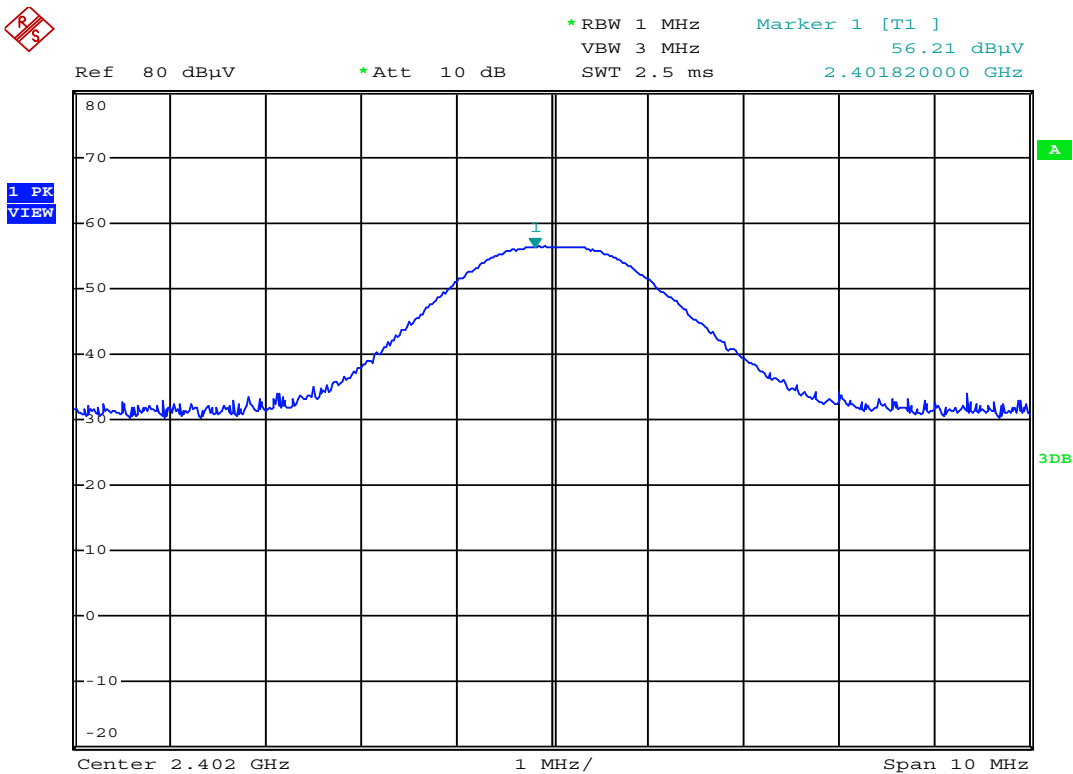
# Field Strength (Average)



Date: 3.JUN.2021 14:28:39

|                                      |                                |                                    |
|--------------------------------------|--------------------------------|------------------------------------|
| Channel Frequency (MHz): <b>2480</b> | Antenna Polarization: <b>V</b> | Channel Power (dBuV): <b>42.03</b> |
| Modulation: <b>GFSK</b>              | Bit Rate (Mbps): <b>-</b>      |                                    |

## Field Strength (Peak)



Date: 3.JUN.2021 14:24:04

Channel Frequency (MHz): **2402**

Antenna Polarization: **H**

Channel Power (dBuV): **56.21**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

## Field Strength (Peak)

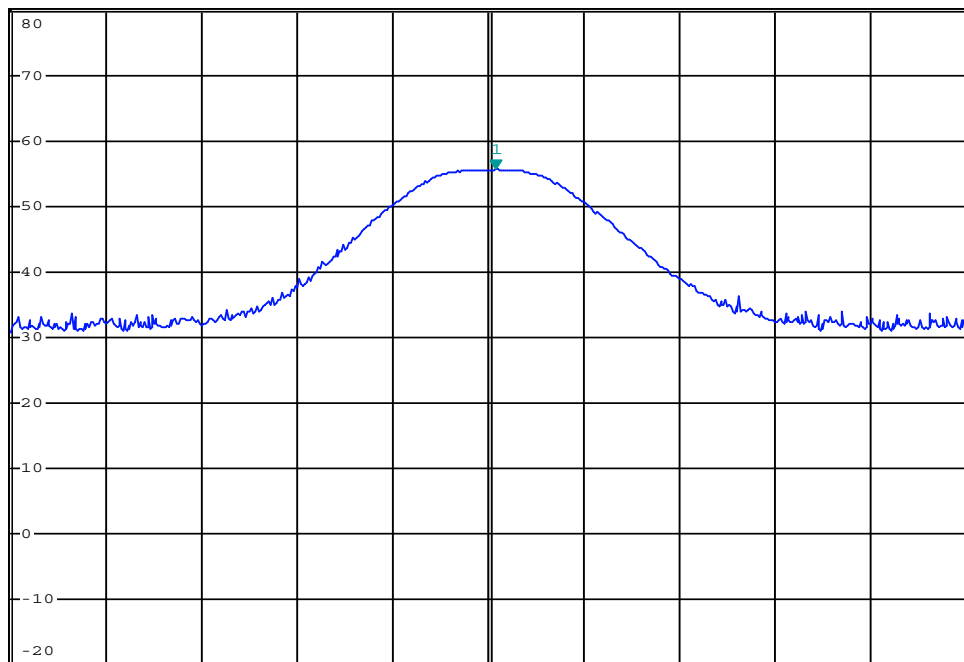


\*RBW 1 MHz      Marker 1 [T1 ]  
VBW 3 MHz      55.65 dBuV  
SWT 2.5 ms      2.441080000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.441 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:35:53

Channel Frequency (MHz): **2441**

Antenna Polarization: **H**

Channel Power (dBuV): **55.65**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

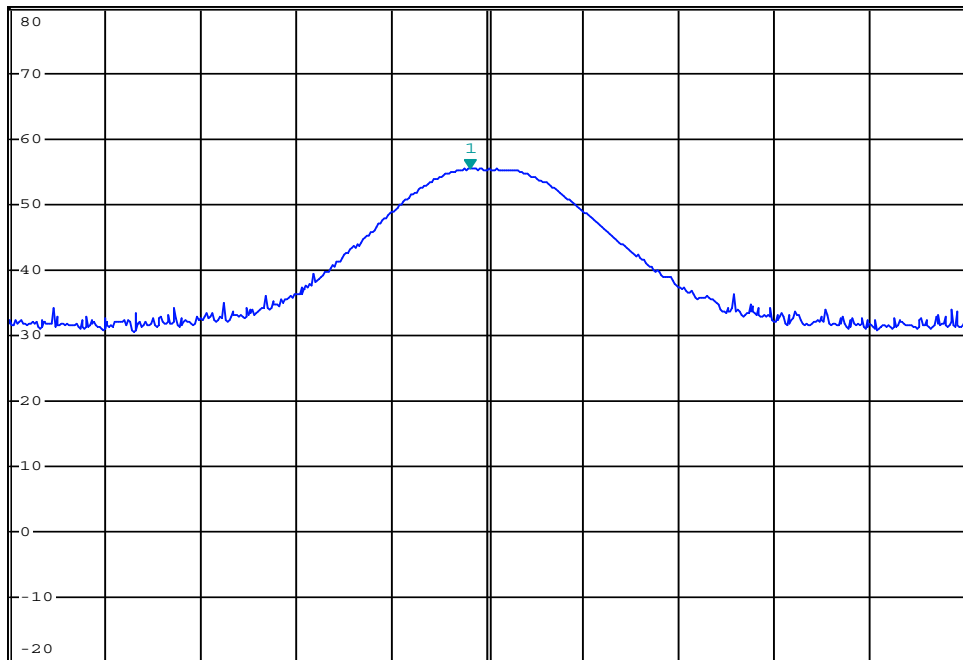


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      55.51 dBuV  
 SWT 2.5 ms      2.479820000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



A

3DB

Center 2.48 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:32:23

Channel Frequency (MHz): **2480**

Antenna Polarization: **H**

Channel Power (dBuV): **55.51**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

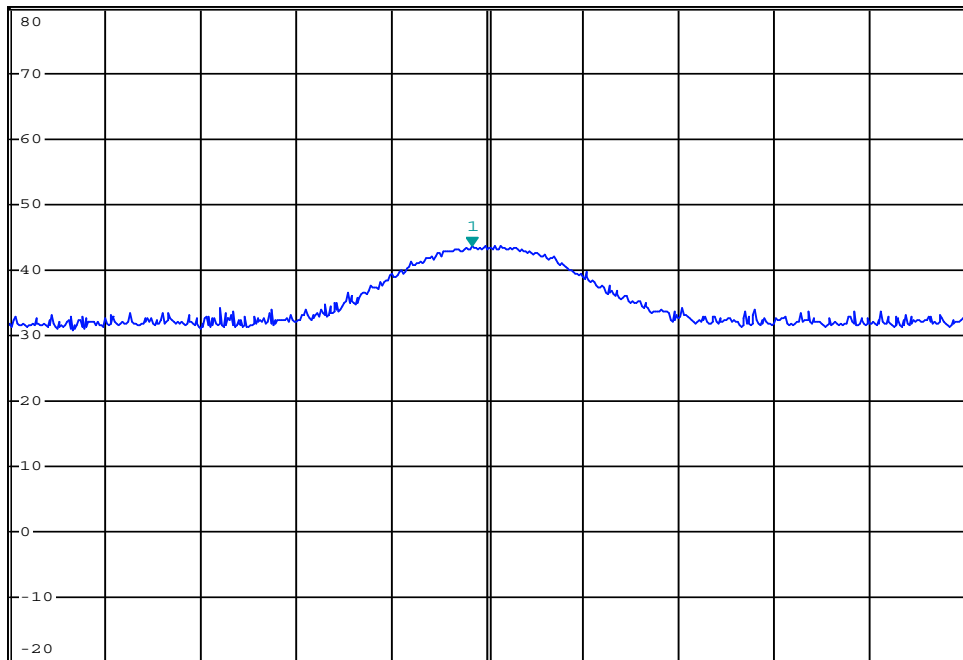


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      43.66 dBuV  
 SWT 2.5 ms      2.401840000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.402 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:25:47

Channel Frequency (MHz): **2402**

Antenna Polarization: **V**

Channel Power (dBuV): **43.66**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

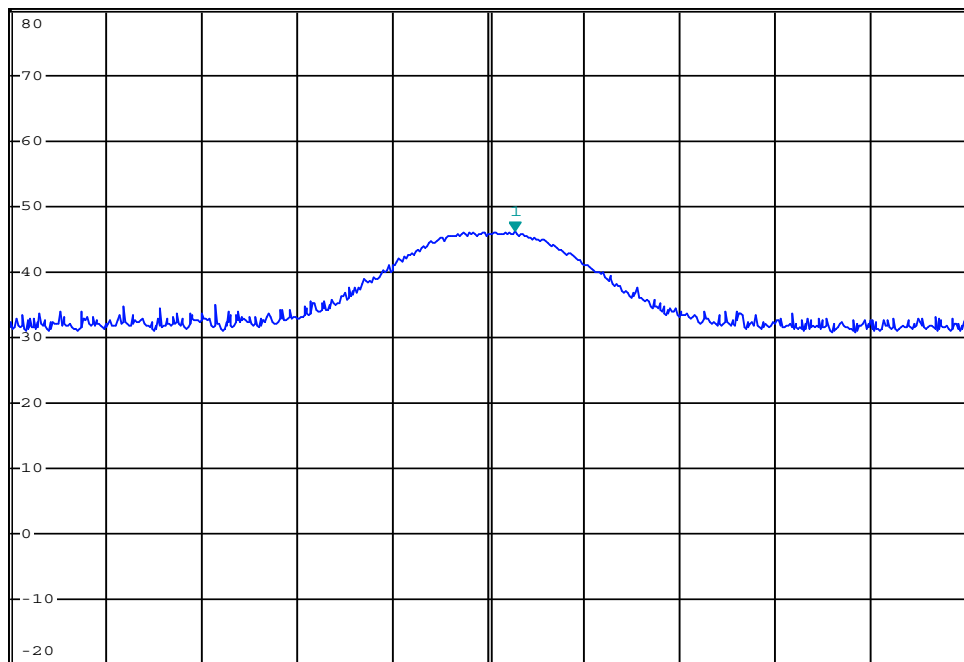


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      46.20 dBuV  
 SWT 2.5 ms      2.441280000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.441 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:37:23

Channel Frequency (MHz): **2441**

Antenna Polarization: **V**

Channel Power (dBuV): **46.20**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

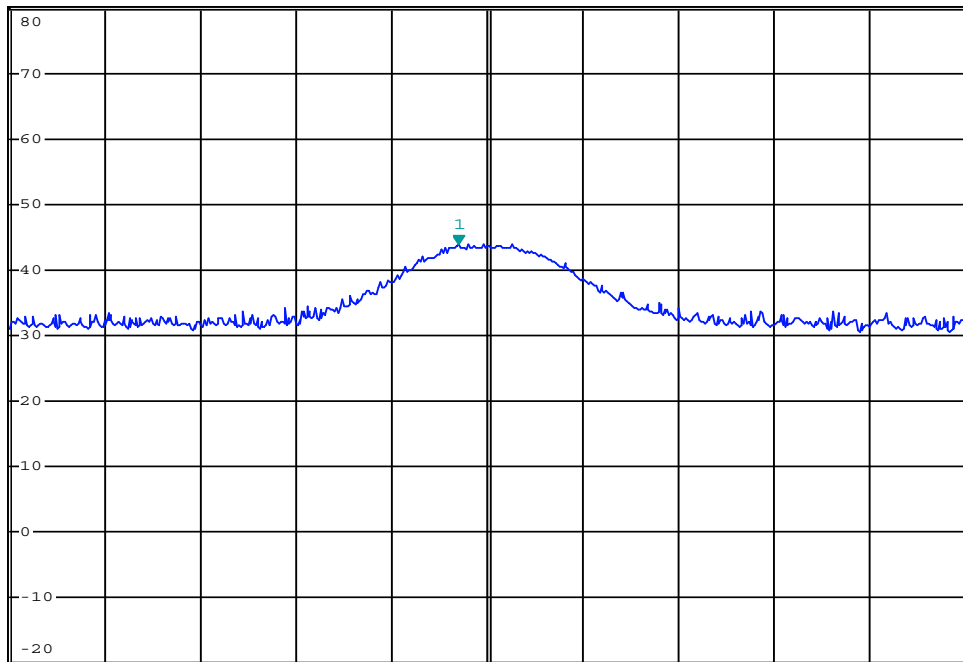


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      43.94 dBuV  
 SWT 2.5 ms      2.479700000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.48 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:29:10

Channel Frequency (MHz): **2480**

Antenna Polarization: **V**

Channel Power (dBuV): **43.94**

Modulation: **GFSK**

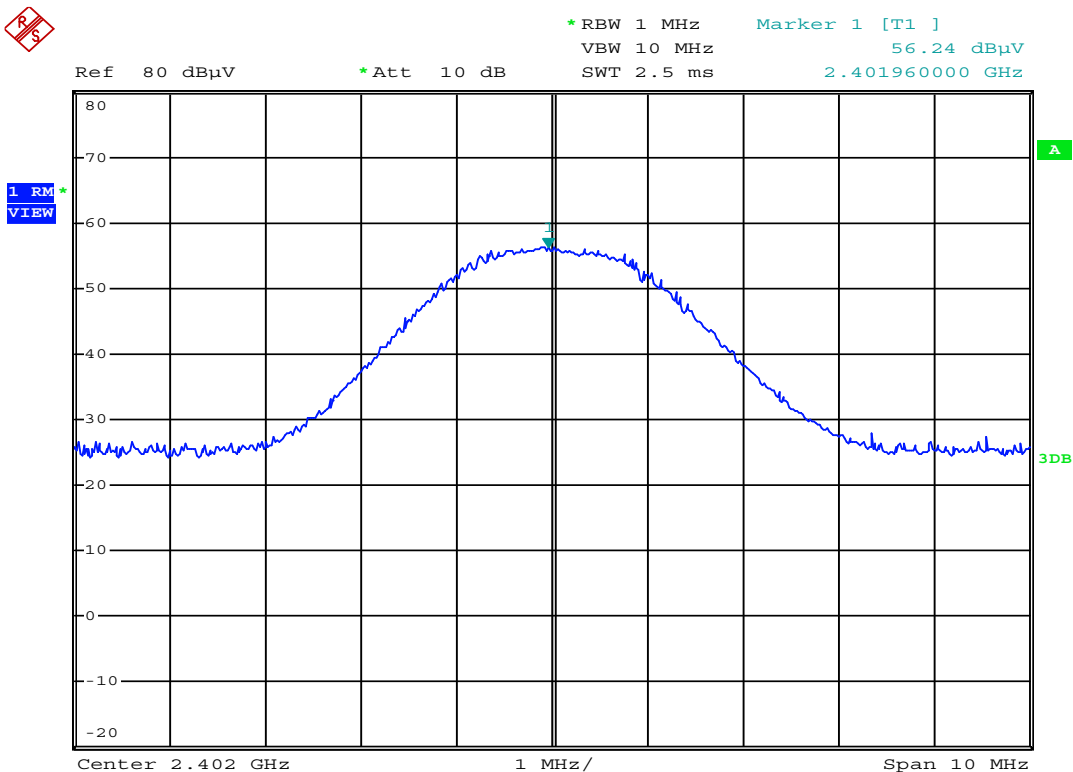
Bit Rate (Mbps): **-**

| FCC §15.249(a), RSS-210 Radiated Field Strength |      |            |                           |          |                             |                                                                        |                                                 |                                         |                                                                        |                     |                    |
|-------------------------------------------------|------|------------|---------------------------|----------|-----------------------------|------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------|---------------------|--------------------|
| Frequency<br><br>(MHz)                          | Mode | Modulation | Bit<br><br>Rate<br>(Mbps) | Detector | Antenna<br><br>Polarization | Measured<br><br>Field Strength<br>[FS <sub>Meas</sub> ]<br>(dBuV @ 3m) | Cable<br><br>Loss<br>[L <sub>c</sub> ]<br>(dBm) | Receive<br><br>Antenna<br>[ACF]<br>(dB) | Corrected<br><br>Field Strength<br>[FS <sub>Corr</sub> ]<br>(dBuV @3m) | Limit<br><br>(dBuV) | Margin<br><br>(dB) |
| 2402.0                                          | BLE  | GMSK       | 2                         | RMS      | Horizontal                  | 56.24                                                                  | 4.6                                             | 28.28                                   | 89.12                                                                  | 94.0                | 4.9                |
| 2441.0                                          |      |            |                           |          |                             | 56.02                                                                  | 4.6                                             | 28.28                                   | 88.90                                                                  |                     | 5.1                |
| 2480.0                                          |      |            |                           |          |                             | 55.20                                                                  | 4.6                                             | 28.28                                   | 88.08                                                                  |                     | 5.9                |
| 2402.0                                          |      |            |                           |          | Vertical                    | 40.61                                                                  | 4.6                                             | 28.28                                   | 73.49                                                                  |                     | 20.5               |
| 2441.0                                          |      |            |                           |          |                             | 41.50                                                                  | 4.6                                             | 28.28                                   | 74.38                                                                  |                     | 19.6               |
| 2480.0                                          |      |            |                           |          |                             | 42.55                                                                  | 4.6                                             | 28.28                                   | 75.43                                                                  |                     | 18.6               |
| 2402.0                                          |      |            |                           | Peak     | Horizontal                  | 56.71                                                                  | 4.6                                             | 28.28                                   | 89.59                                                                  | 114.0               | 24.4               |
| 2441.0                                          |      |            |                           |          |                             | 56.47                                                                  | 4.6                                             | 28.28                                   | 89.35                                                                  |                     | 24.7               |
| 2480.0                                          |      |            |                           |          |                             | 55.71                                                                  | 4.6                                             | 28.28                                   | 88.59                                                                  |                     | 25.4               |
| 2402.0                                          |      |            |                           |          | Vertical                    | 42.75                                                                  | 4.6                                             | 28.28                                   | 75.63                                                                  |                     | 38.4               |
| 2441.0                                          |      |            |                           |          |                             | 43.24                                                                  | 4.6                                             | 28.28                                   | 76.12                                                                  |                     | 37.9               |
| 2480.0                                          |      |            |                           |          |                             | 44.19                                                                  | 4.6                                             | 28.28                                   | 77.07                                                                  |                     | 36.9               |
| Result:                                         |      |            |                           |          |                             |                                                                        |                                                 |                                         | Complies                                                               |                     |                    |

$$FS_{Corr} = FS_{Meas} + ACF + L_c$$

$$Margin = Limit - FS_{Corr}$$

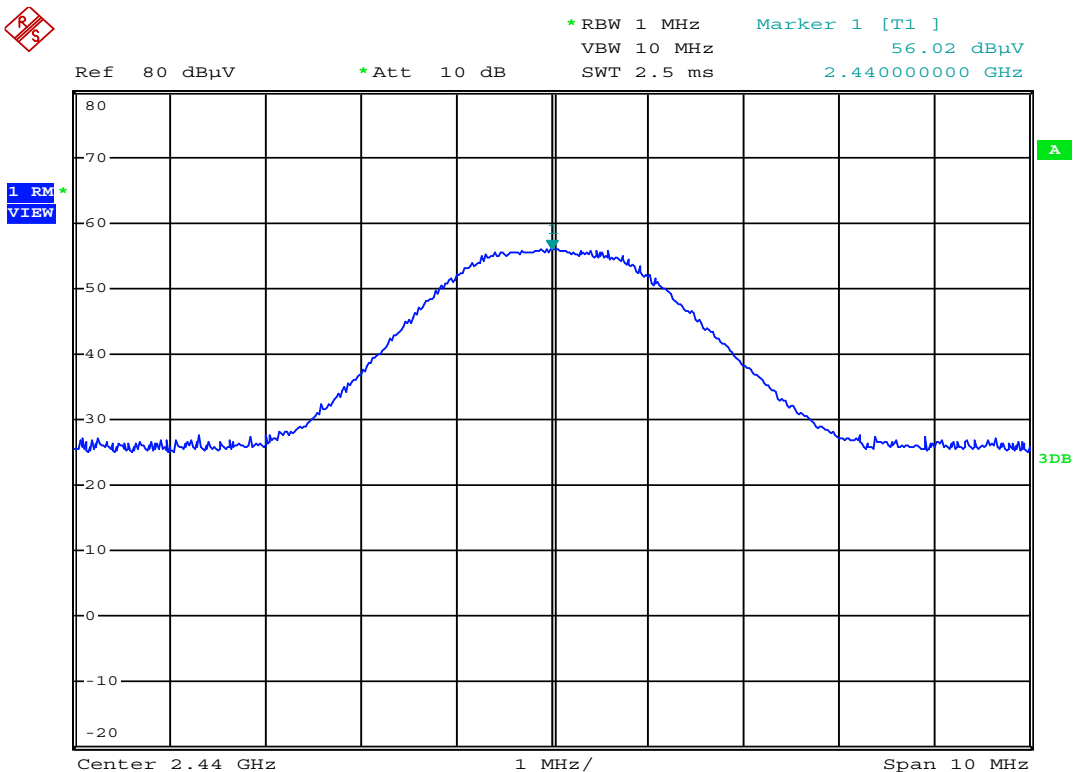
# Field Strength (Average)



Date: 3.JUN.2021 14:47:02

|                                      |                                |                                    |
|--------------------------------------|--------------------------------|------------------------------------|
| Channel Frequency (MHz): <b>2402</b> | Antenna Polarization: <b>H</b> | Channel Power (dBuV): <b>56.24</b> |
| Modulation: <b>GMSK</b>              | Bit Rate (Mbps): <b>-</b>      |                                    |

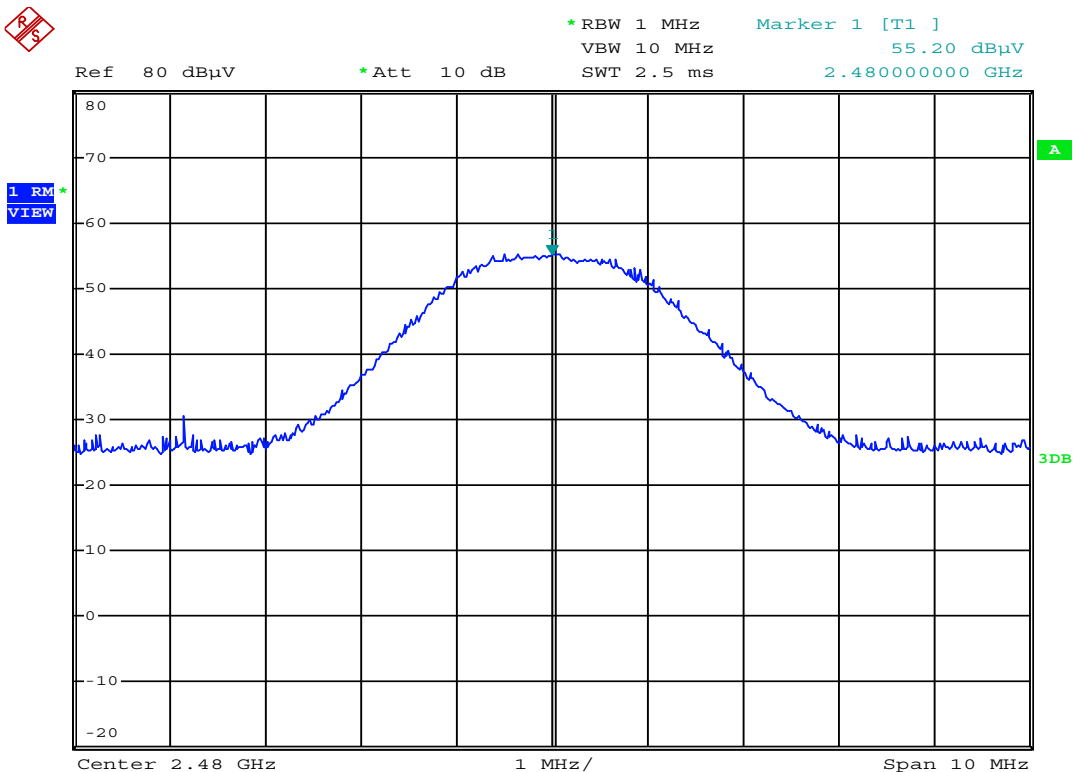
# Field Strength (Average)



Date: 3.JUN.2021 14:44:45

|                          |      |                       |   |                       |       |
|--------------------------|------|-----------------------|---|-----------------------|-------|
| Channel Frequency (MHz): | 2441 | Antenna Polarization: | H | Channel Power (dBμV): | 56.02 |
| Modulation:              | GMSK | Bit Rate (Mbps):      | - |                       |       |

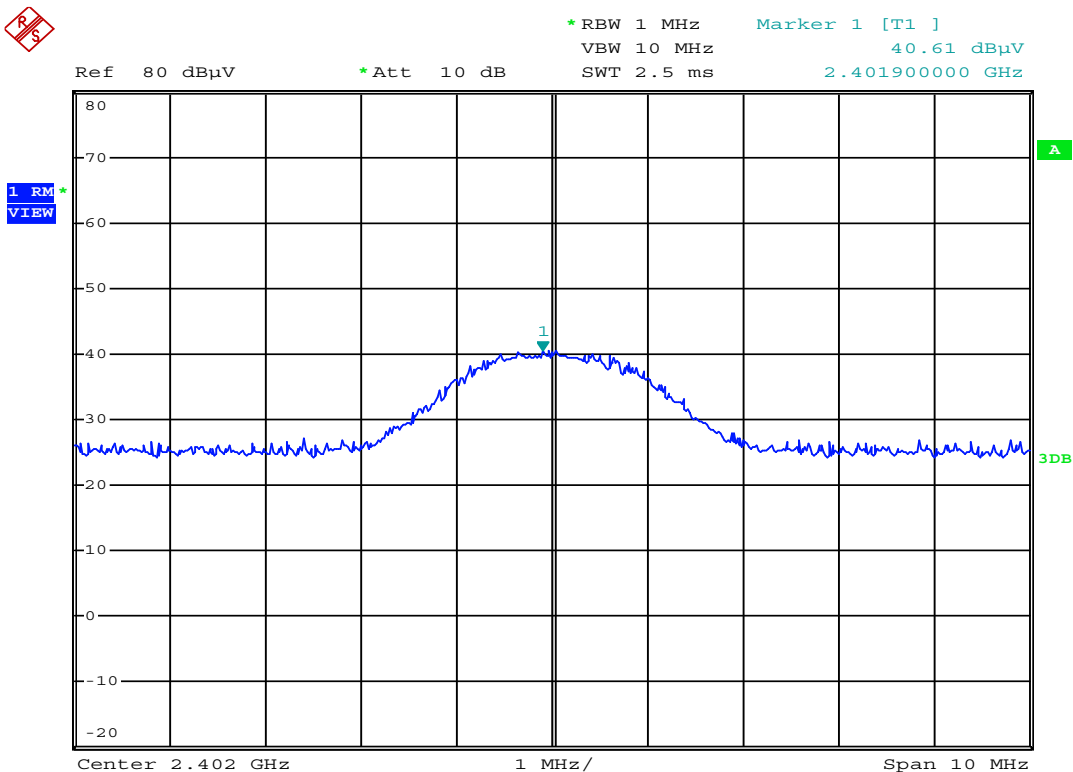
# Field Strength (Average)



Date: 3.JUN.2021 14:53:18

|                          |      |                       |   |                       |       |
|--------------------------|------|-----------------------|---|-----------------------|-------|
| Channel Frequency (MHz): | 2480 | Antenna Polarization: | H | Channel Power (dBuV): | 55.20 |
| Modulation:              | GMSK | Bit Rate (Mbps):      | - |                       |       |

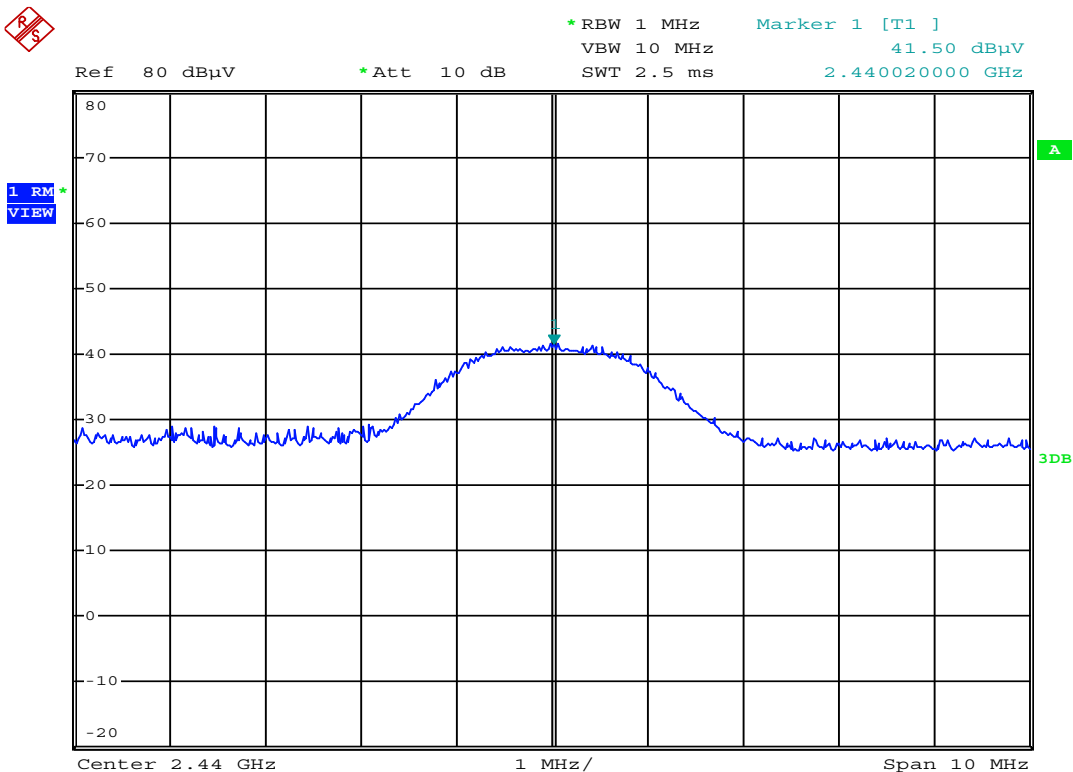
# Field Strength (Average)



Date: 3.JUN.2021 14:49:20

|                          |      |                       |   |                       |       |
|--------------------------|------|-----------------------|---|-----------------------|-------|
| Channel Frequency (MHz): | 2402 | Antenna Polarization: | V | Channel Power (dBμV): | 40.61 |
| Modulation:              | GMSK | Bit Rate (Mbps):      | - |                       |       |

# Field Strength (Average)



Date: 3.JUN.2021 14:42:13

|                          |      |                       |   |                       |       |
|--------------------------|------|-----------------------|---|-----------------------|-------|
| Channel Frequency (MHz): | 2441 | Antenna Polarization: | V | Channel Power (dBuV): | 41.50 |
| Modulation:              | GMSK | Bit Rate (Mbps):      | - |                       |       |

# Field Strength (Average)

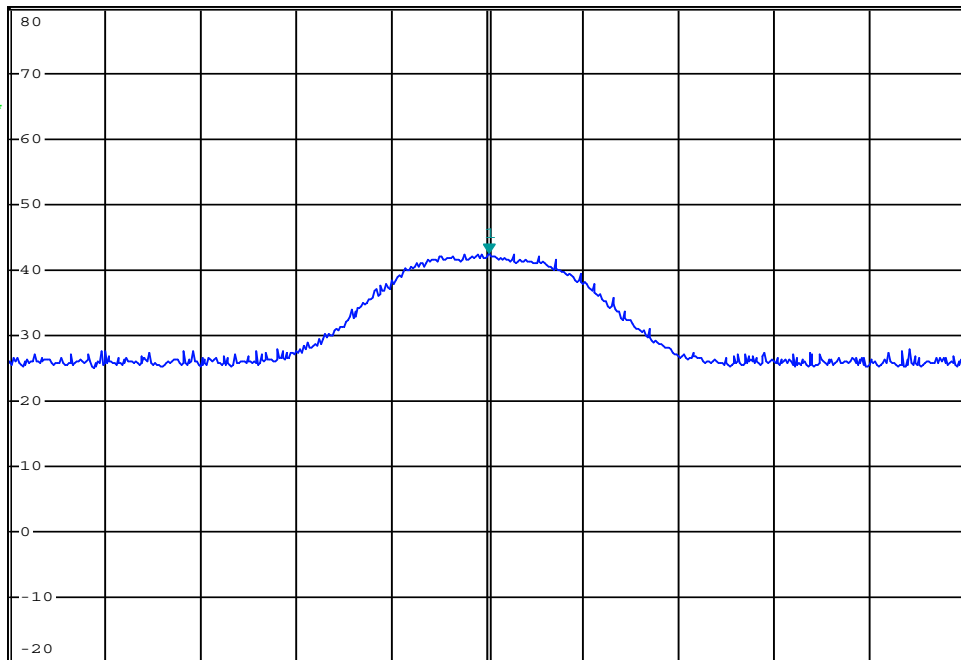


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 10 MHz      42.55 dBuV  
 SWT 2.5 ms      2.480020000 GHz

Ref 80 dBuV

\*Att 10 dB

1 RM  
 VIEW



Center 2.48 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:50:58

Channel Frequency (MHz): **2480**

Antenna Polarization: **V**

Channel Power (dBuV): **42.55**

Modulation: **GMSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

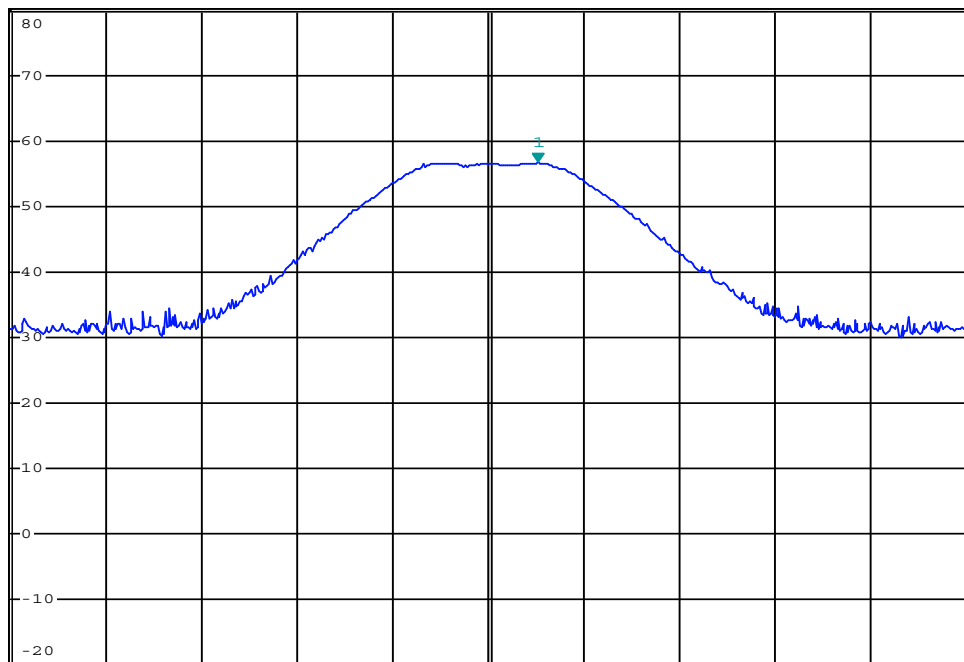


\*RBW 1 MHz Marker 1 [T1 ]  
 VBW 3 MHz 56.71 dBuV  
 SWT 2.5 ms 2.402520000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.402 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:47:29

Channel Frequency (MHz): **2402**

Antenna Polarization: **H**

Channel Power (dBuV): **56.71**

Modulation: **GMSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

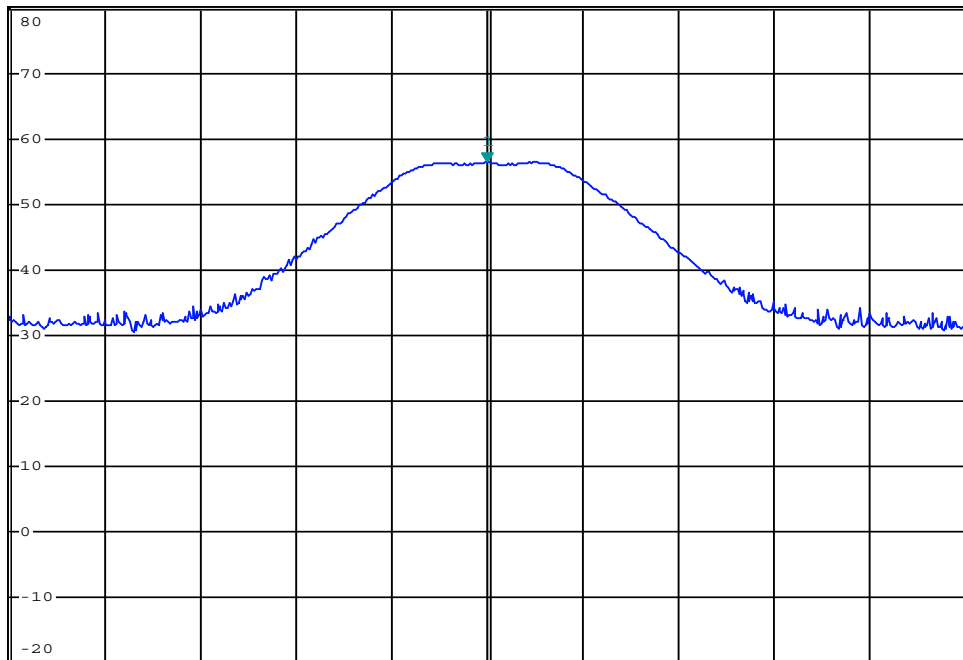


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      56.47 dBuV  
 SWT 2.5 ms      2.440000000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.44 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:44:11

Channel Frequency (MHz): **2441**

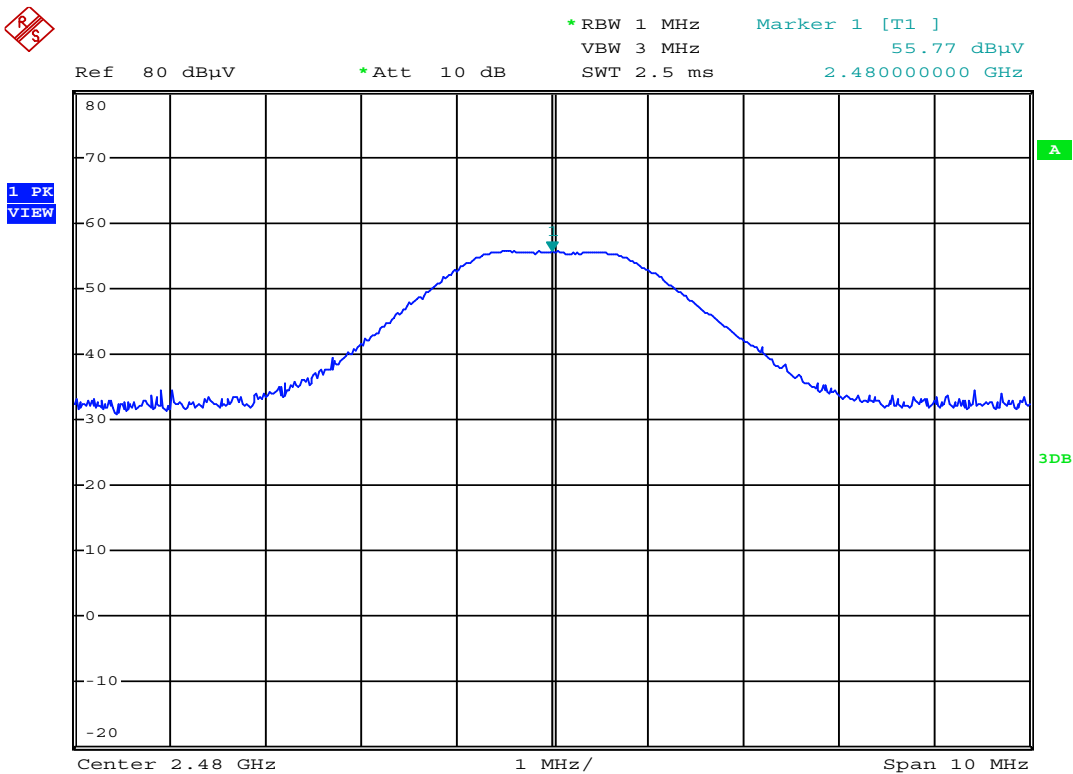
Antenna Polarization: **H**

Channel Power (dBuV): **56.47**

Modulation: **GMSK**

Bit Rate (Mbps): **-**

## Field Strength (Peak)



Date: 3.JUN.2021 14:52:51

Channel Frequency (MHz): **2480**

Antenna Polarization: **H**

Channel Power (dBuV): **55.71**

Modulation: **GMSK**

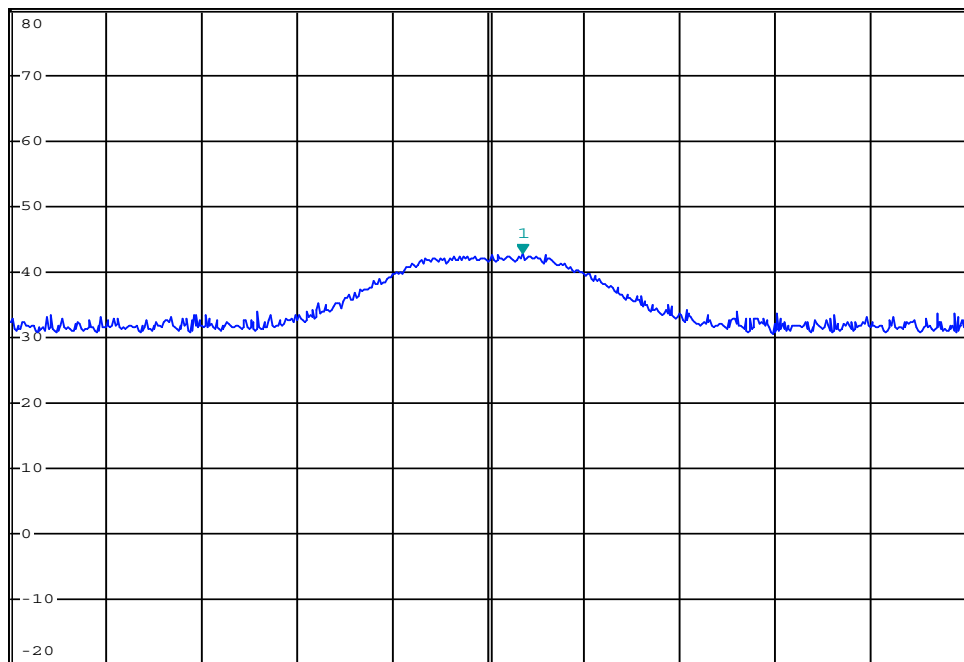
Bit Rate (Mbps): **-**

# Field Strength (Peak)



1 PK  
VIEW

Ref 80 dBμV      \*Att 10 dB      \*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      42.75 dBμV  
 SWT 2.5 ms      2.402360000 GHz



Center 2.402 GHz      1 MHz/      Span 10 MHz

Date: 3.JUN.2021 14:48:56

|                          |      |                       |   |                       |       |
|--------------------------|------|-----------------------|---|-----------------------|-------|
| Channel Frequency (MHz): | 2402 | Antenna Polarization: | V | Channel Power (dBμV): | 42.75 |
| Modulation:              | GMSK | Bit Rate (Mbps):      | - |                       |       |

# Field Strength (Peak)

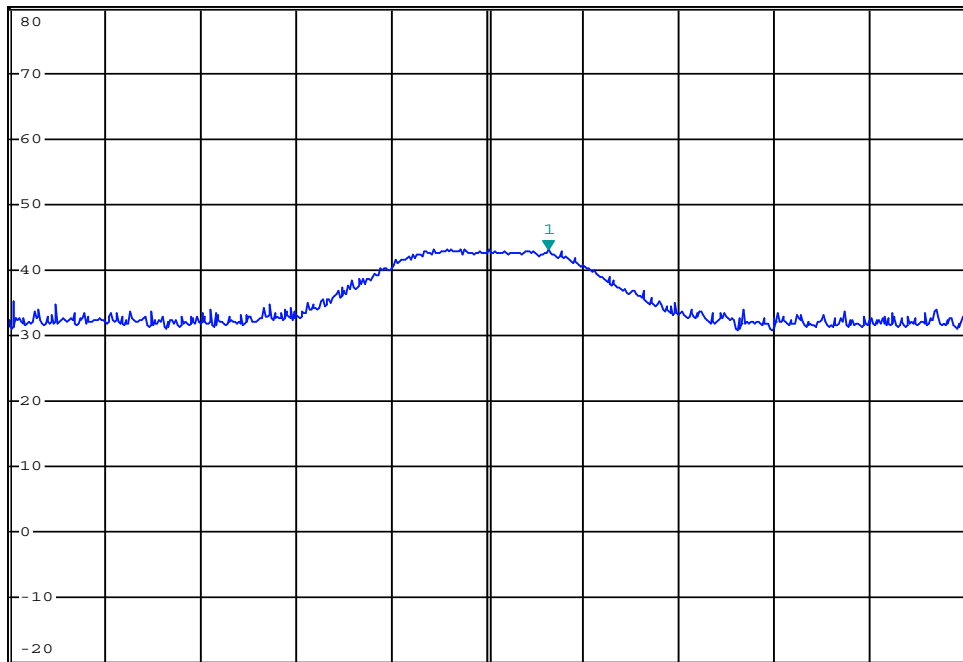


\*RBW 1 MHz Marker 1 [T1 ]  
 VBW 3 MHz 43.24 dBuV  
 SWT 2.5 ms 2.440640000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.44 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:42:46

Channel Frequency (MHz): **2441**

Antenna Polarization: **V**

Channel Power (dBuV): **43.24**

Modulation: **GMSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

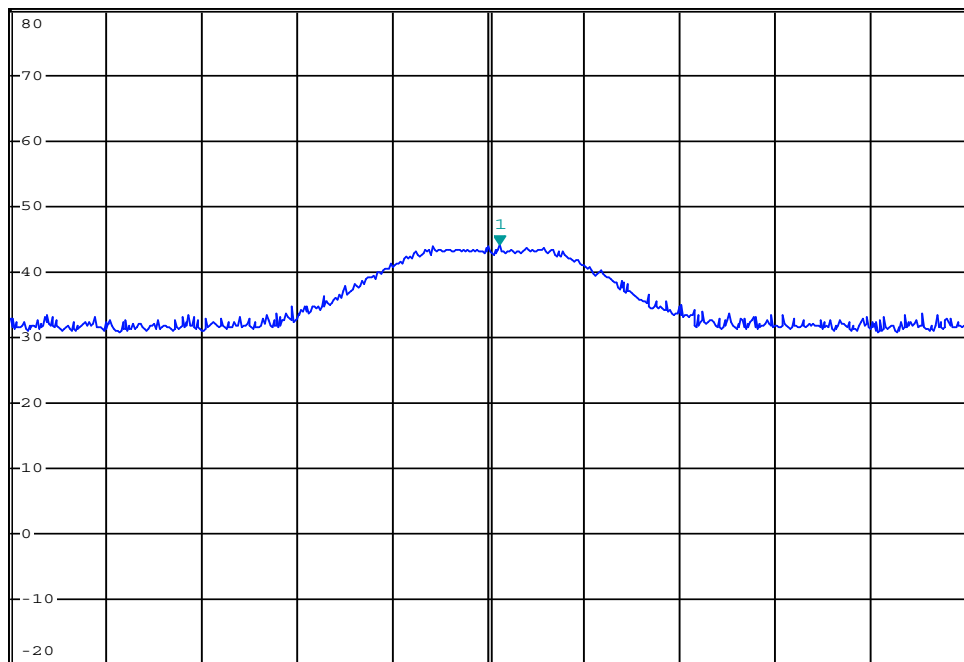


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      44.19 dBuV  
 SWT 2.5 ms      2.480120000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



A

3DB

Center 2.48 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:51:22

Channel Frequency (MHz): **2480**

Antenna Polarization: **V**

Channel Power (dBuV): **44.19**

Modulation: **GMSK**

Bit Rate (Mbps): **-**

| FCC §15.249(a), RSS-210 Radiated Field Strength |      |            |                       |          |                             |                                                                        |                                             |                                     |                                                                        |                     |                    |
|-------------------------------------------------|------|------------|-----------------------|----------|-----------------------------|------------------------------------------------------------------------|---------------------------------------------|-------------------------------------|------------------------------------------------------------------------|---------------------|--------------------|
| Frequency<br><br>(MHz)                          | Mode | Modulation | Bit<br>Rate<br>(Mbps) | Detector | Antenna<br><br>Polarization | Measured<br>Field Strength<br><br>[FS <sub>Meas</sub> ]<br>(dBuV @ 3m) | Cable<br>Loss<br>[L <sub>c</sub> ]<br>(dBm) | Receive<br>Antenna<br>[ACF]<br>(dB) | Corrected<br>Field Strength<br><br>[FS <sub>Corr</sub> ]<br>(dBuV @3m) | Limit<br><br>(dBuV) | Margin<br><br>(dB) |
| 2402.0                                          | ANT  | GFSK       | -                     | RMS      | Horizontal                  | 56.56                                                                  | 4.6                                         | 28.28                               | 89.44                                                                  | 94.0                | 4.6                |
| 2441.0                                          |      |            |                       |          |                             | 55.58                                                                  | 4.7                                         | 28.22                               | 88.50                                                                  |                     | 5.5                |
| 2480.0                                          |      |            |                       |          |                             | 55.07                                                                  | 4.8                                         | 28.17                               | 88.04                                                                  |                     | 6.0                |
| 2402.0                                          |      |            |                       |          | Vertical                    | 41.67                                                                  | 4.6                                         | 28.28                               | 74.55                                                                  |                     | 19.5               |
| 2441.0                                          |      |            |                       |          |                             | 45.64                                                                  | 4.7                                         | 28.22                               | 78.56                                                                  |                     | 15.4               |
| 2480.0                                          |      |            |                       |          |                             | 41.50                                                                  | 4.8                                         | 28.17                               | 74.47                                                                  |                     | 19.5               |
| 2402.0                                          |      |            |                       | Peak     | Horizontal                  | 56.95                                                                  | 4.6                                         | 28.28                               | 89.83                                                                  | 114.0               | 24.2               |
| 2441.0                                          |      |            |                       |          |                             | 56.04                                                                  | 4.7                                         | 28.22                               | 88.96                                                                  |                     | 25.0               |
| 2480.0                                          |      |            |                       |          |                             | 55.55                                                                  | 4.8                                         | 28.17                               | 88.52                                                                  |                     | 25.5               |
| 2402.0                                          |      |            |                       |          | Vertical                    | 43.58                                                                  | 4.6                                         | 28.28                               | 76.46                                                                  |                     | 37.5               |
| 2441.0                                          |      |            |                       |          |                             | 47.00                                                                  | 4.7                                         | 28.22                               | 79.92                                                                  |                     | 34.1               |
| 2480.0                                          |      |            |                       |          |                             | 43.33                                                                  | 4.8                                         | 28.17                               | 76.30                                                                  |                     | 37.7               |
| Result:                                         |      |            |                       |          |                             |                                                                        |                                             |                                     | Complies                                                               |                     |                    |

$$FS_{\text{Corr}} = FS_{\text{Meas}} + ACF + L_c$$

$$\text{Margin} = \text{Limit} - FS_{\text{Corr}}$$

## Field Strength (Average)

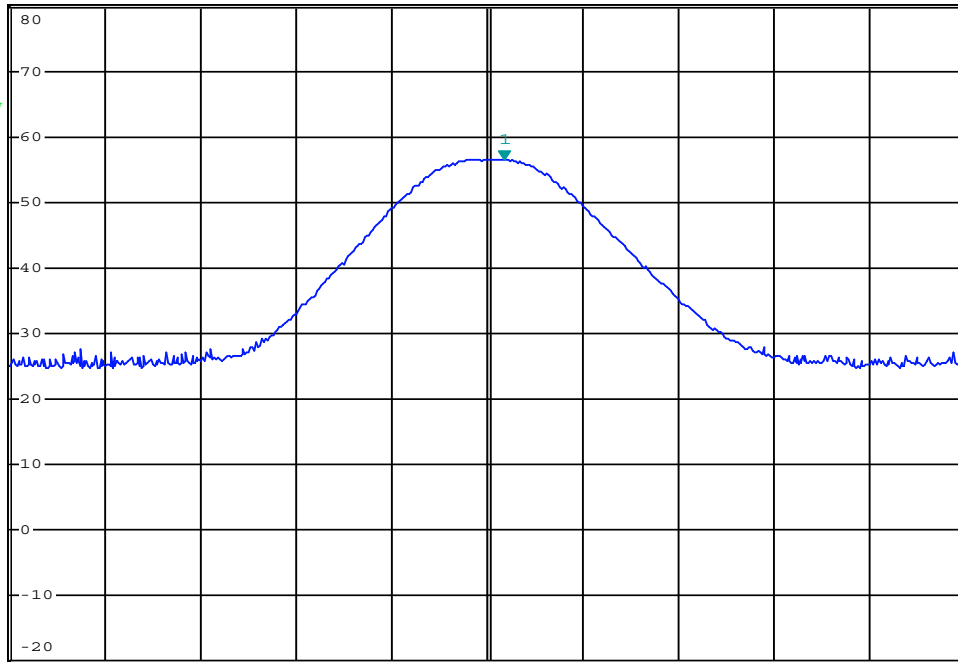


\*RBW 1 MHz      Marker 1 [T1 ]  
VBW 10 MHz      56.56 dBuV  
SWT 2.5 ms      2.402180000 GHz

Ref 80 dBuV

\*Att 10 dB

1 RM  
VIEW



Center 2.402 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 15:05:06

Channel Frequency (MHz): **2402**

Antenna Polarization: **H**

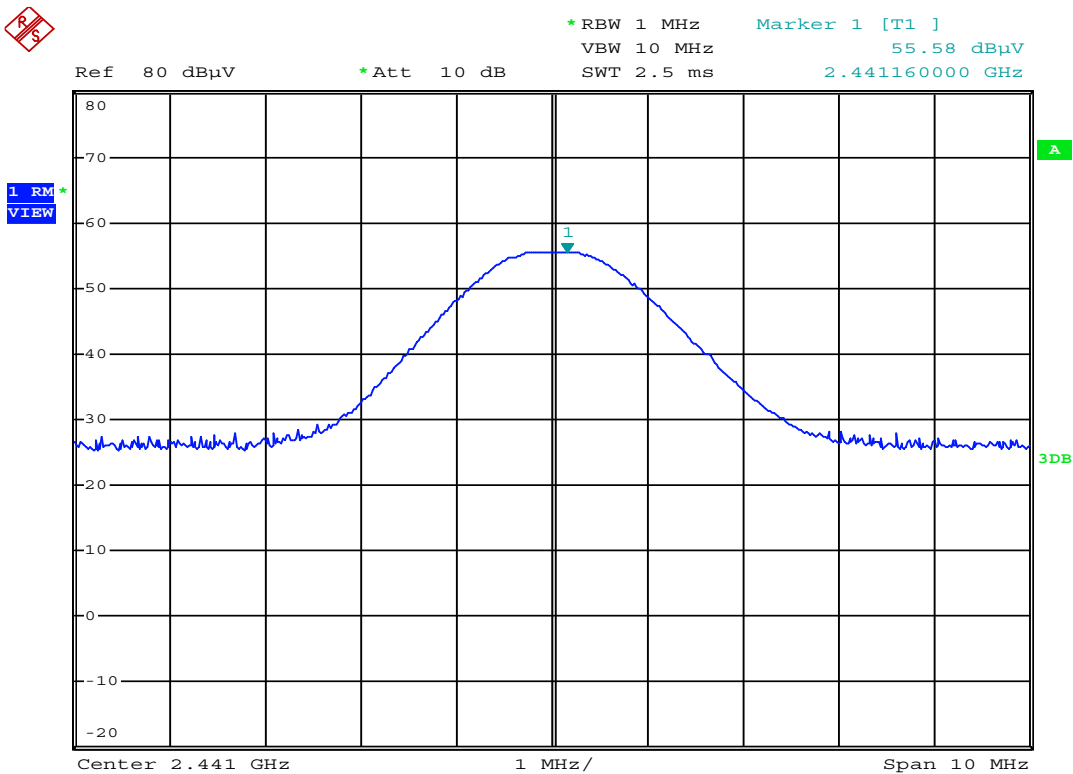
Channel Power (dBuV):

**56.56**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

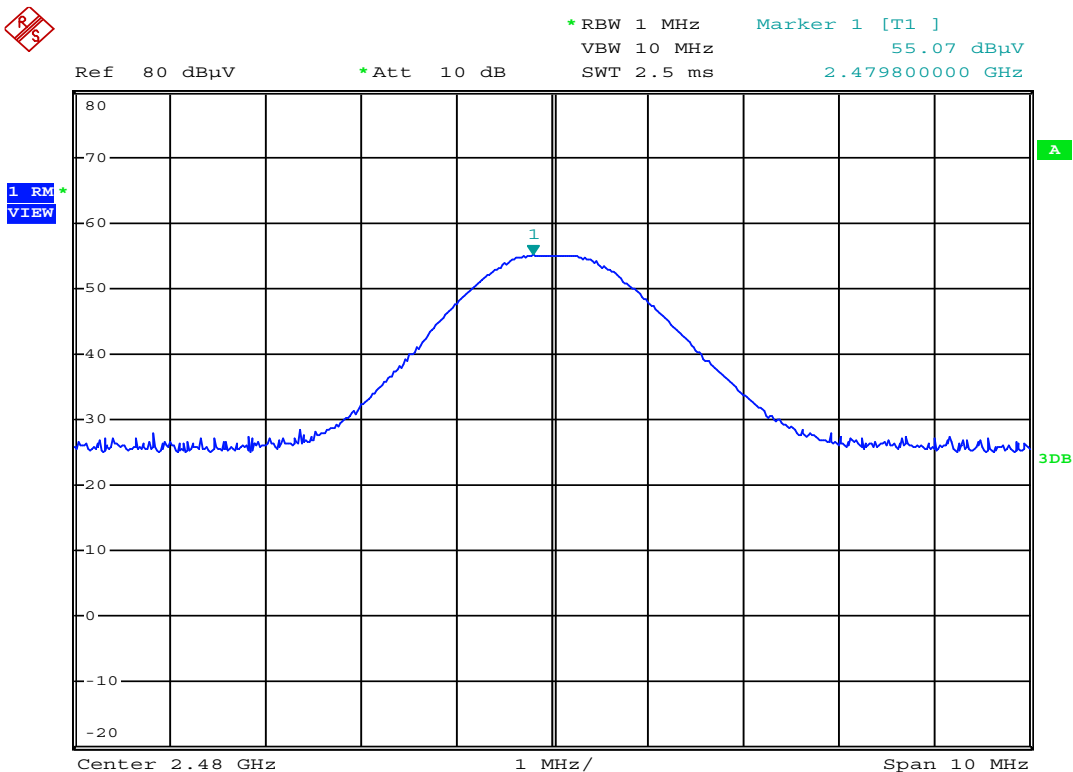
# Field Strength (Average)



Date: 3.JUN.2021 15:06:50

|                                      |                                |                                    |
|--------------------------------------|--------------------------------|------------------------------------|
| Channel Frequency (MHz): <b>2441</b> | Antenna Polarization: <b>H</b> | Channel Power (dBuV): <b>55.58</b> |
| Modulation: <b>GFSK</b>              | Bit Rate (Mbps): <b>-</b>      |                                    |

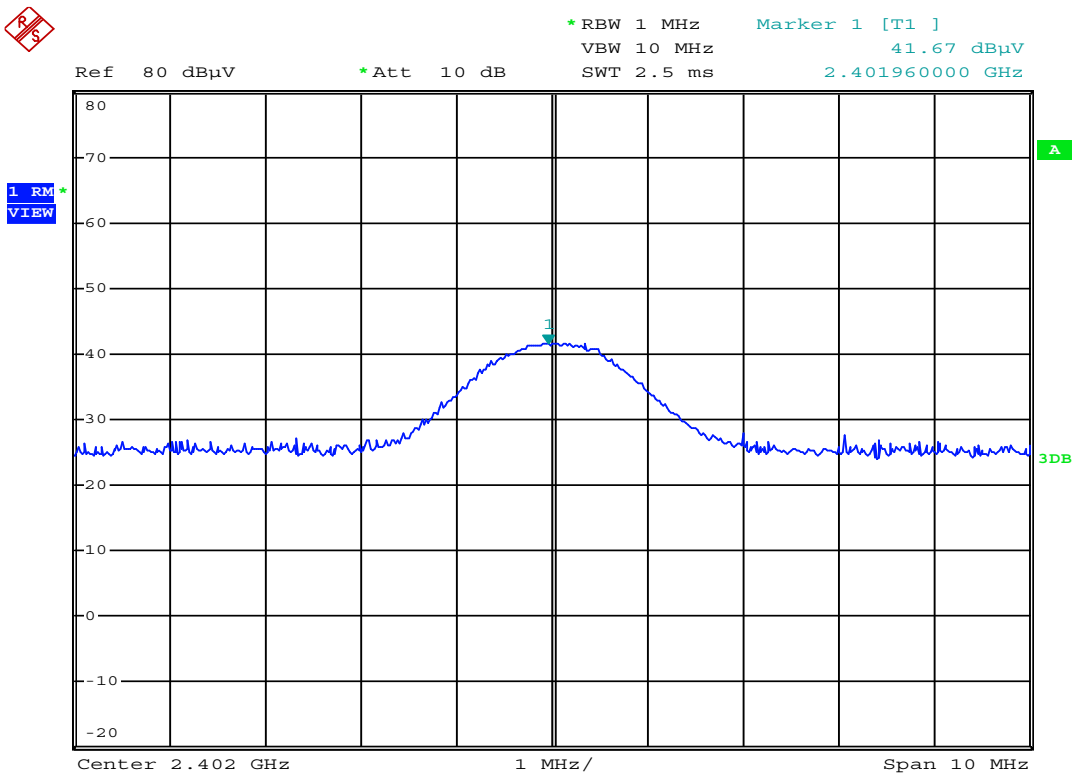
# Field Strength (Average)



Date: 3.JUN.2021 14:58:15

|                          |      |                       |   |                       |       |
|--------------------------|------|-----------------------|---|-----------------------|-------|
| Channel Frequency (MHz): | 2480 | Antenna Polarization: | H | Channel Power (dBuV): | 55.07 |
| Modulation:              | GFSK | Bit Rate (Mbps):      | - |                       |       |

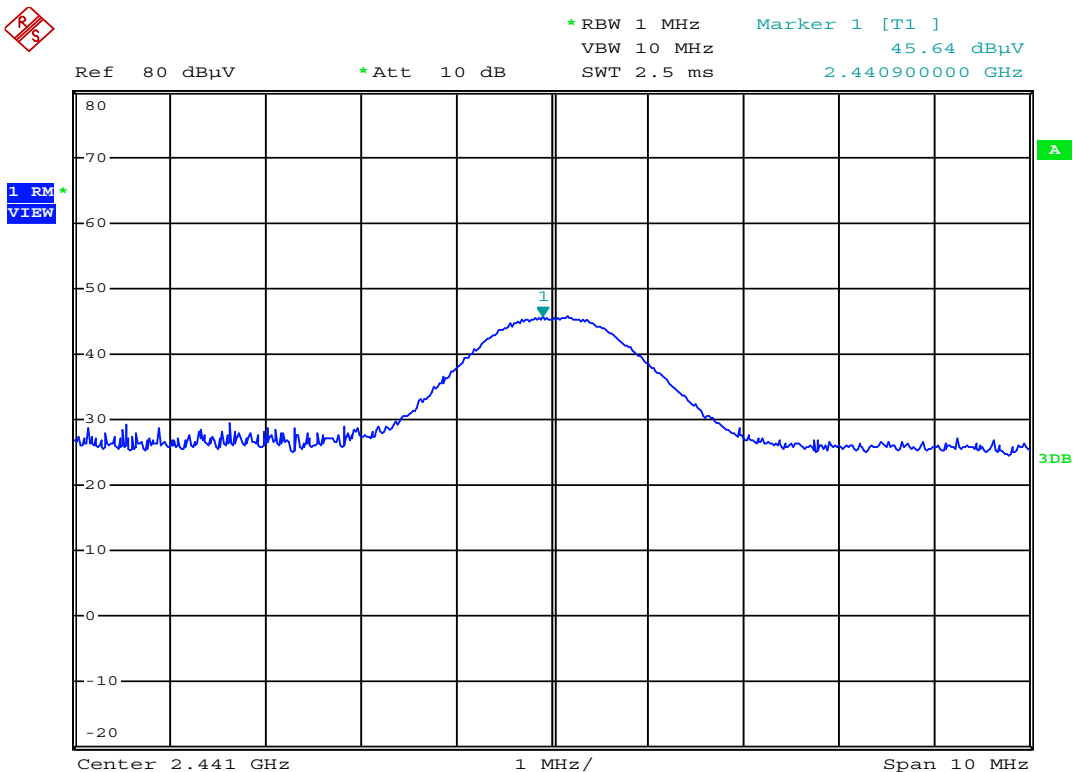
# Field Strength (Average)



Date: 3.JUN.2021 15:02:37

|                          |      |                       |   |                       |       |
|--------------------------|------|-----------------------|---|-----------------------|-------|
| Channel Frequency (MHz): | 2402 | Antenna Polarization: | V | Channel Power (dBuV): | 41.67 |
| Modulation:              | GFSK | Bit Rate (Mbps):      | - |                       |       |

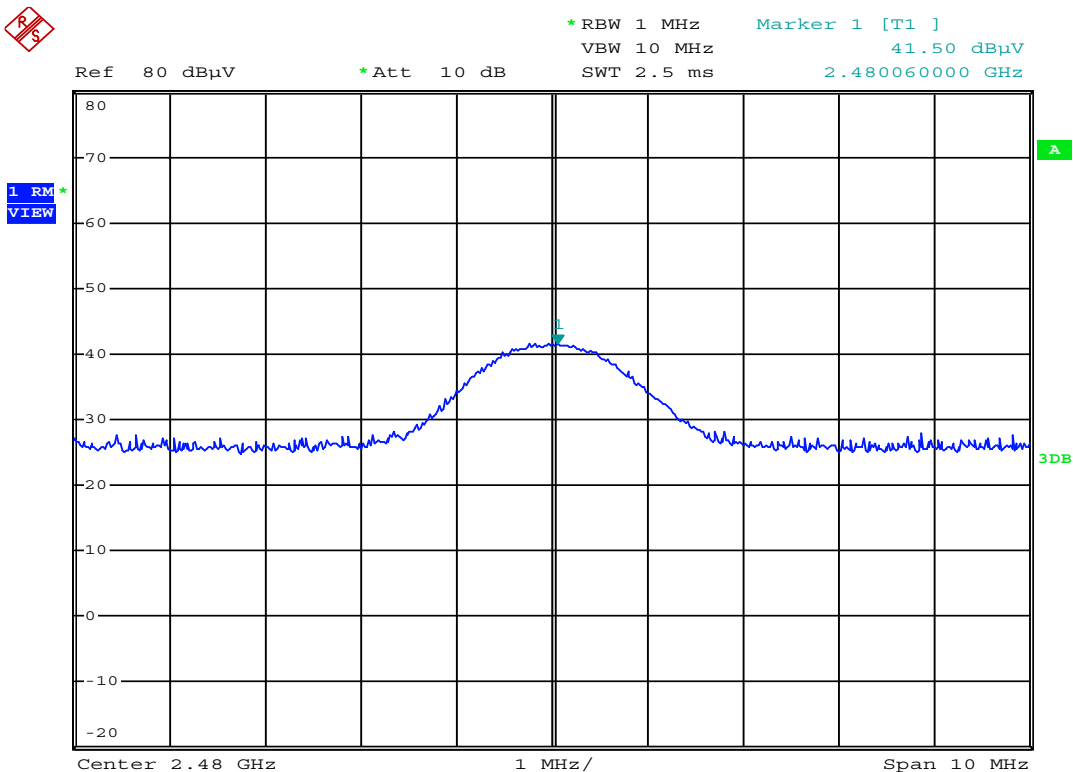
# Field Strength (Average)



Date: 3.JUN.2021 15:08:57

|                          |      |                       |   |                       |       |
|--------------------------|------|-----------------------|---|-----------------------|-------|
| Channel Frequency (MHz): | 2441 | Antenna Polarization: | V | Channel Power (dBuV): | 45.64 |
| Modulation:              | GFSK | Bit Rate (Mbps):      | - |                       |       |

# Field Strength (Average)



Date: 3.JUN.2021 15:00:54

|                                      |                                |                                    |
|--------------------------------------|--------------------------------|------------------------------------|
| Channel Frequency (MHz): <b>2480</b> | Antenna Polarization: <b>V</b> | Channel Power (dBμV): <b>41.50</b> |
| Modulation: <b>GFSK</b>              | Bit Rate (Mbps): <b>-</b>      |                                    |

# Field Strength (Peak)

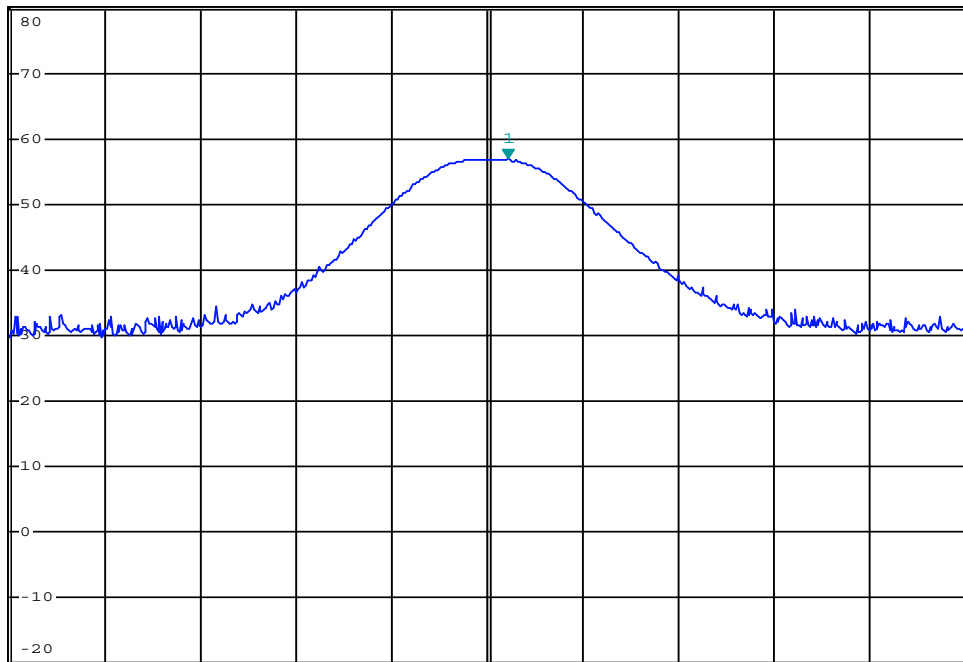


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      56.95 dBuV  
 SWT 2.5 ms      2.402220000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.402 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 15:04:34

Channel Frequency (MHz): **2402**

Antenna Polarization: **H**

Channel Power (dBuV): **56.95**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

## Field Strength (Peak)

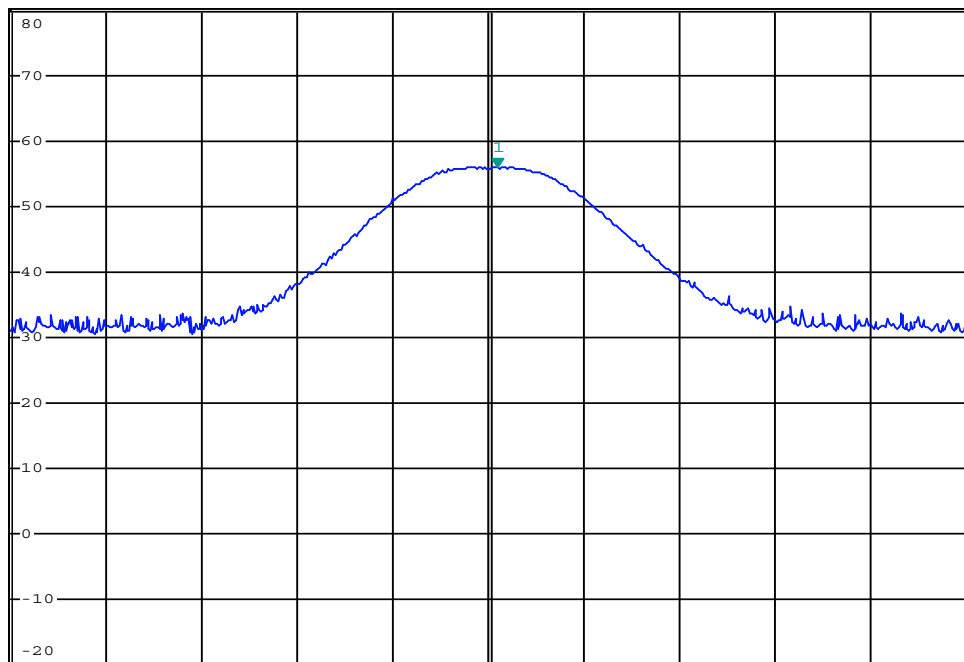


\*RBW 1 MHz      Marker 1 [T1 ]  
VBW 3 MHz      56.04 dBuV  
SWT 2.5 ms      2.441100000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.441 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 15:07:13

Channel Frequency (MHz): **2441**

Antenna Polarization: **H**

Channel Power (dBuV): **56.04**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

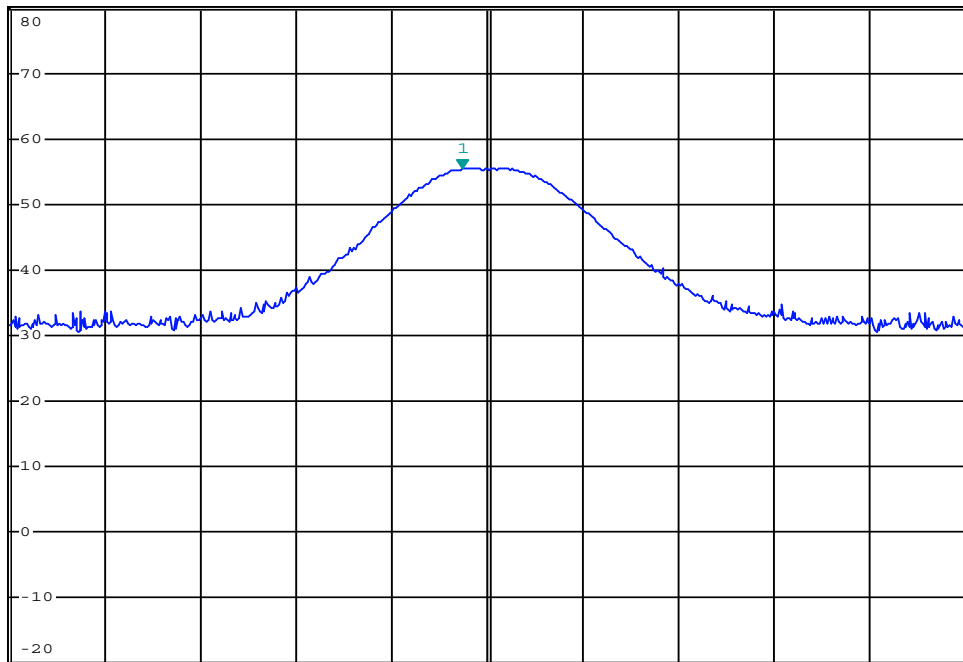


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      55.55 dBuV  
 SWT 2.5 ms      2.479740000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.48 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 14:58:42

Channel Frequency (MHz): **2480**

Antenna Polarization: **H**

Channel Power (dBuV): **55.55**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

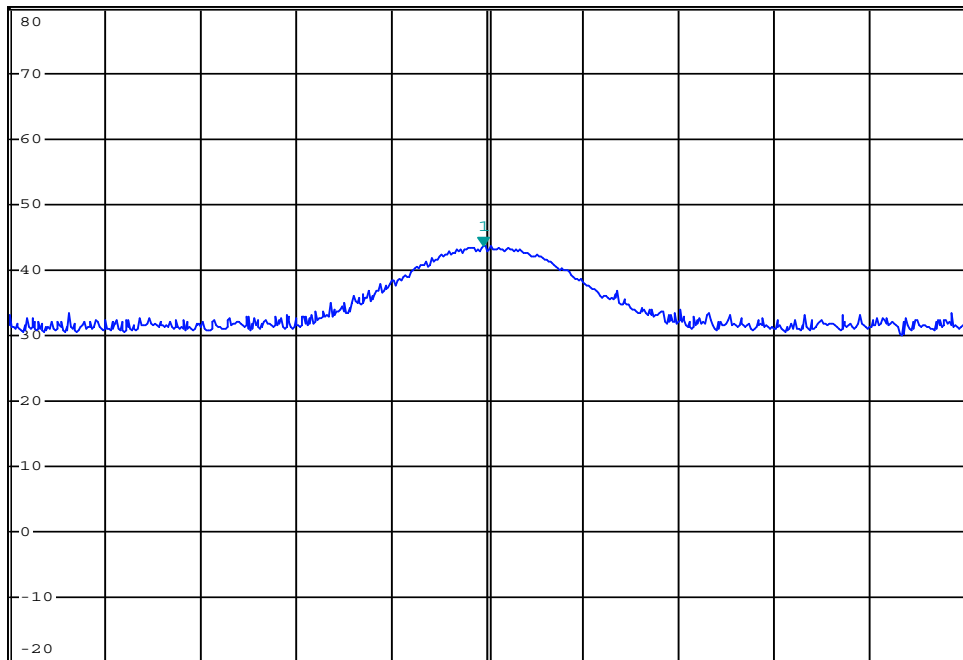


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      43.58 dBuV  
 SWT 2.5 ms      2.401960000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.402 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 15:03:05

Channel Frequency (MHz): **2402**

Antenna Polarization: **V**

Channel Power (dBuV): **43.58**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

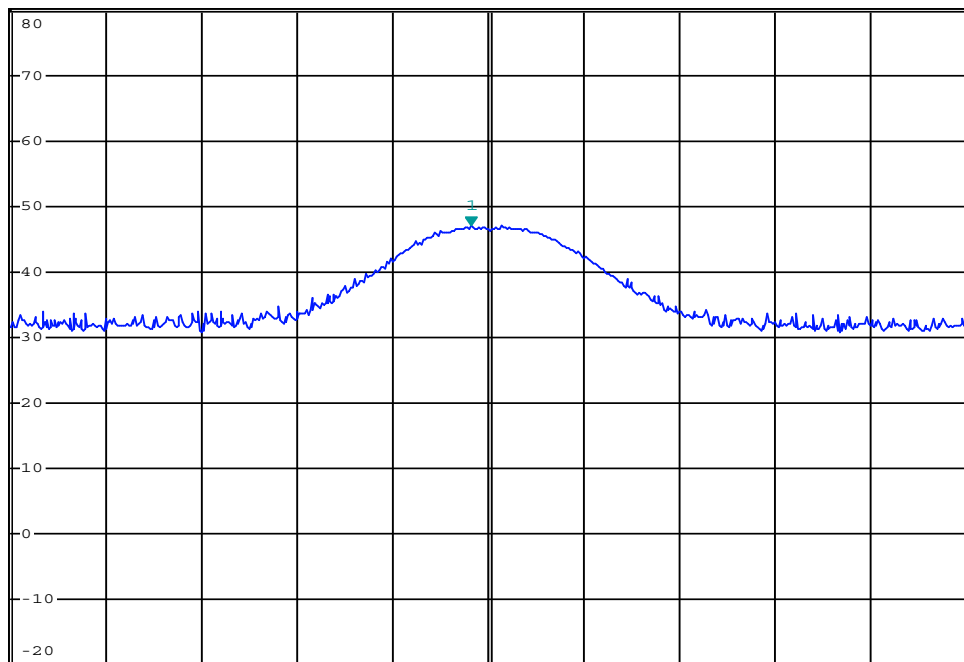


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      47.00 dBuV  
 SWT 2.5 ms      2.440820000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.441 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 15:08:38

Channel Frequency (MHz): **2441**

Antenna Polarization: **V**

Channel Power (dBuV): **47.00**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

# Field Strength (Peak)

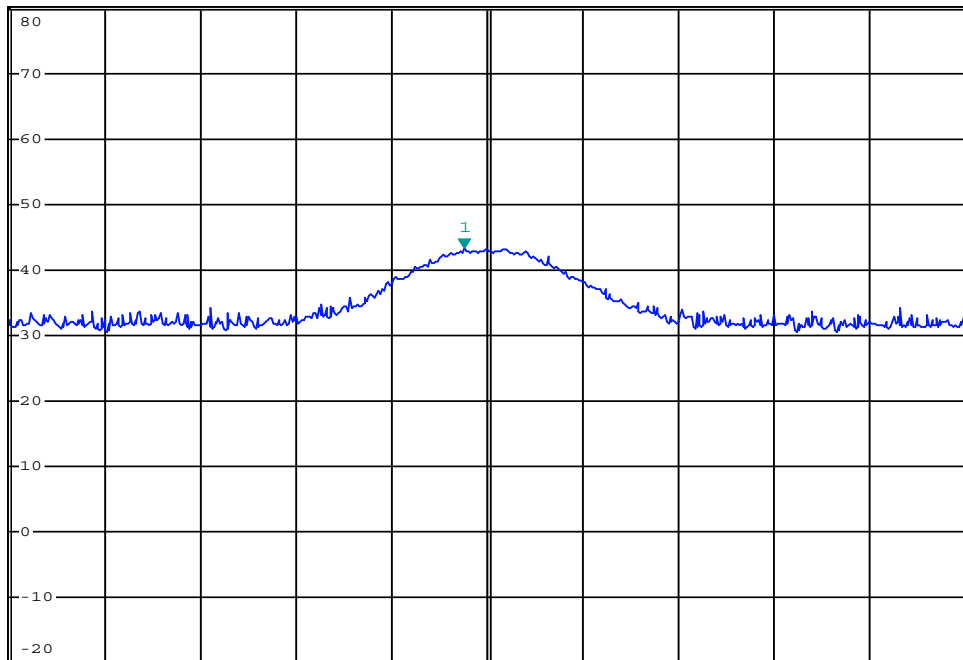


\*RBW 1 MHz      Marker 1 [T1 ]  
 VBW 3 MHz      43.33 dBuV  
 SWT 2.5 ms      2.479760000 GHz

Ref 80 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 2.48 GHz

1 MHz/

Span 10 MHz

Date: 3.JUN.2021 15:00:18

Channel Frequency (MHz): **2480**

Antenna Polarization: **V**

Channel Power (dBuV): **43.33**

Modulation: **GFSK**

Bit Rate (Mbps): **-**

| Radiated Field Strength |      |            |          |                             |                                                                    |                                             |                                     |                                                                      |                                                    |                                                   |                    |
|-------------------------|------|------------|----------|-----------------------------|--------------------------------------------------------------------|---------------------------------------------|-------------------------------------|----------------------------------------------------------------------|----------------------------------------------------|---------------------------------------------------|--------------------|
| Frequency<br><br>(MHz)  | Mode | Modulation | Detector | Antenna<br><br>Polarization | Measured<br>Field Strength<br>[FS <sub>Meas</sub> ]<br>(dBuV @ 3m) | Cable<br>Loss<br>[L <sub>c</sub> ]<br>(dBm) | Receive<br>Antenna<br>[ACF]<br>(dB) | Corrected<br>Field Strength<br>[FS <sub>Corr</sub> ]<br>(dBuV/m @3m) | Limit<br>@30m<br>[Lim <sub>30m</sub> ]<br>(dBuV/m) | Limit*<br>@3m<br>[Lim <sub>3m</sub> ]<br>(dBuV/m) | Margin<br><br>(dB) |
| 13.56                   | NFC  | ASK        | RMS      | Front                       | 22.98                                                              | 0.5                                         | 10.65                               | 34.13                                                                | 84.00                                              | 124.0                                             | 89.9               |
|                         |      |            |          | Side                        | 21.28                                                              |                                             |                                     | 32.43                                                                |                                                    |                                                   | 91.6               |
|                         |      |            | Peak     | Front                       | 24.41                                                              |                                             |                                     | 35.56                                                                | 104.00                                             | 144.0                                             | 108.4              |
|                         |      |            |          | Side                        | 21.81                                                              |                                             |                                     | 32.96                                                                |                                                    |                                                   | 111.0              |
|                         |      |            |          | Result:                     |                                                                    |                                             |                                     |                                                                      |                                                    |                                                   |                    |

\* Limit @ 3m = Limit @ 30m + 40dB/decade = 84dBuV/m + 40dB = 124dBuV/m (Average)

\* Limit @ 3m = Limit @ 30m + 40dB/decade = 104dBuV/m + 40dB = 144dBuV/m (Peak)

FS<sub>Corr</sub> = FS<sub>Meas</sub> + ACF + L<sub>c</sub>

Margin = Limit<sub>3m</sub> - FS<sub>Corr</sub>

| Radiated Field Strength |      |            |          |                             |                                                                    |                                             |                                                       |                                                                     |                                                    |                                                    |        |
|-------------------------|------|------------|----------|-----------------------------|--------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|--------|
| Frequency<br><br>(MHz)  | Mode | Modulation | Detector | Antenna<br><br>Polarization | Measured<br>Field Strength<br>[FS <sub>Meas</sub> ]<br>(dBuV @ 3m) | Cable<br>Loss<br>[L <sub>c</sub> ]<br>(dBm) | Receive<br>Antenna<br>[ACF <sup>H</sup> ]<br>(dBuA/m) | Corrected<br>Field Strength<br>[H <sub>Corr</sub> ]<br>(dBuA/m @3m) | Limit<br>@30m<br>[Lim <sub>30m</sub> ]<br>(dBuV/m) | Limit**<br>@3m<br>[Lim <sub>3m</sub> ]<br>(dBuA/m) | Margin |
| 13.56                   | NFC  | ASK        | RMS      | Front                       | 22.98                                                              | 0.5                                         | -40.85                                                | -17.37                                                              | 84.00                                              | 72.5                                               | 89.9   |
|                         |      |            |          | Side                        | 21.28                                                              |                                             |                                                       | -19.07                                                              |                                                    |                                                    | 91.6   |
|                         |      |            | Peak     | Front                       | 24.41                                                              |                                             |                                                       | -15.94                                                              | 104.00                                             | 92.5                                               | 108.4  |
|                         |      |            |          | Side                        | 21.81                                                              |                                             |                                                       | -18.54                                                              |                                                    |                                                    | 111.0  |
| Result:                 |      |            |          |                             |                                                                    |                                             |                                                       |                                                                     |                                                    | Complies                                           |        |

\*\* Limit @ 3m = Limit @ 30m + 40dB/decade = 84dBuV/m + 40dB = 124dBuV/m (Average)

\*\* Limit @ 3m = Limit @ 30m + 40dB/decade = 104dBuV/m + 40dB = 144dBuV/m (Peak)

In accordance with ISED Notice 2020 - DRS0023:

"Guidance on Magnetic Field Strength Radiated Emissions Measurements 9kHz - 30MHz"

#### Limit Correction

Limit<sup>H</sup> (dBuA/m) = Limit<sup>E</sup> (dBuV/m) - Z<sub>0</sub> (dBΩ)

Where Z<sub>0</sub> = Free-Space Impedance = 120 πΩ = 377Ω => 20Log377Ω = 51.5dBΩ

Limit<sup>H</sup> (dBuA/m) = Limit<sup>E</sup> (dBuV/m) - Z<sub>0</sub> (dBΩ) = 124dBuV/m - 51.5dBΩ = 72.5dBuA/m @ 3m (Average)

Limit<sup>H</sup> (dBuA/m) = Limit<sup>E</sup> (dBuV/m) - Z<sub>0</sub> (dBΩ) = 144dBuV/m - 51.5dBΩ = 92.5dBuA/m @ 3m (Peak)

#### Measurement Correction

H<sub>Corr</sub>(dBuA/m) = E<sub>Meas</sub>(dBuV) + ACF<sup>H</sup>(dB/Ωm) + L<sub>c</sub> - G<sub>A</sub>

Where ACF<sup>H</sup> is the Magnetic Antenna Correction Factor, L<sub>c</sub> is Cable Loss, G<sub>A</sub> is Pre-Amplifier Gain

External Pre-Amplifier (G<sub>A</sub>) not used

Margin = Limit<sub>3m</sub> - H<sub>Corr</sub>

# Field Strength (Average)

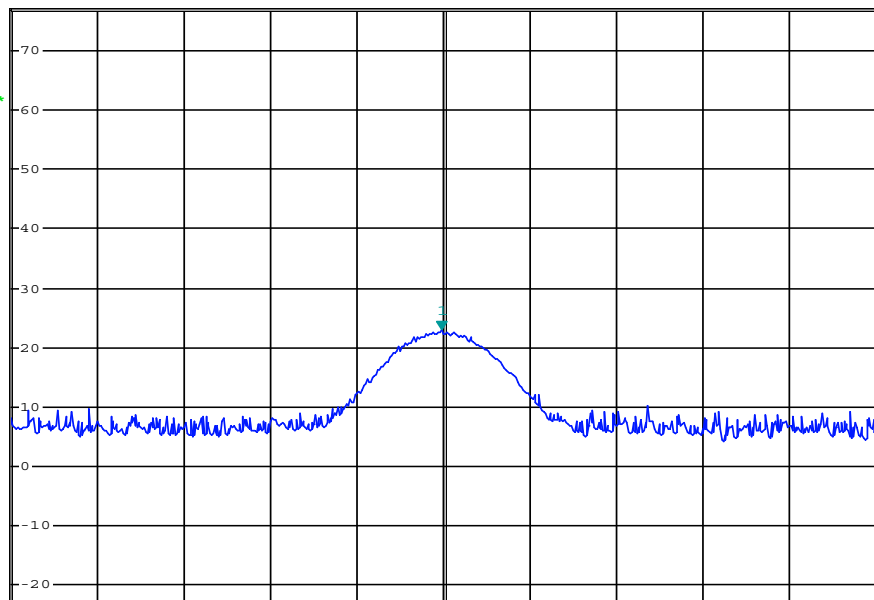


\*RBW 10 kHz    Marker 1 [T1 ]  
 VBW 100 kHz    22.98 dBμV  
 \*SWT 100 ms    13.559800000 MHz

Ref 77 dBμV

\*Att 10 dB

1 RM  
 VIEW



Center 13.56 MHz

10 kHz/

Span 100 kHz

Date: 2.JUN.2021 13:04:03

Channel Frequency:

**13.56 MHz**

Detector:

**RMS**

Antenna Polarization:

**Front**

Modulation Setting:

**ASK**

Protocol:

**NFC**

Measured Field Strength:

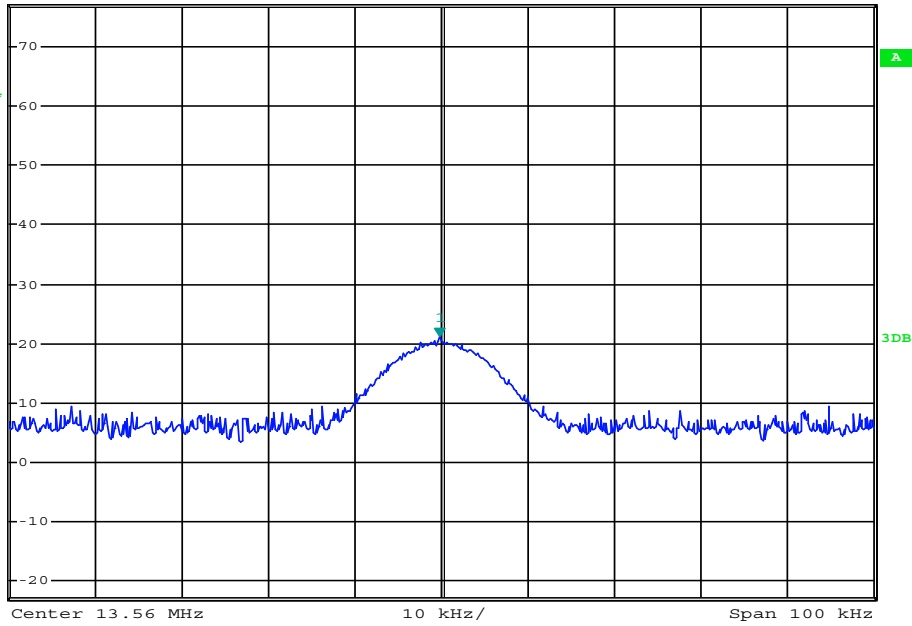
**22.98 dBμV**

## Field Strength (Average)



1 RMS  
VIEW

Ref 77 dBμV    \*Att 10 dB    \*RBW 10 kHz    Marker 1 [T1]    21.28 dBμV  
 VBW 100 kHz    \*SWT 100 ms    13.559800000 MHz



Date: 2.JUN.2021 13:05:52

|                                        |                         |                                               |
|----------------------------------------|-------------------------|-----------------------------------------------|
| Channel Frequency:<br><b>13.56 MHz</b> | Detector:<br><b>RMS</b> | Antenna Polarization:<br><b>Side</b>          |
| Modulation Setting:<br><b>ASK</b>      | Protocol:<br><b>NFC</b> | Measured Field Strength:<br><b>21.28 dBμV</b> |

# Field Strength (Peak)



\*RBW 10 kHz    Marker 1 [T1 ]  
 VBW 30 kHz    24.41 dBμV  
 \*Att 10 dB    13.56060000 MHz  
 \*SWT 100 ms

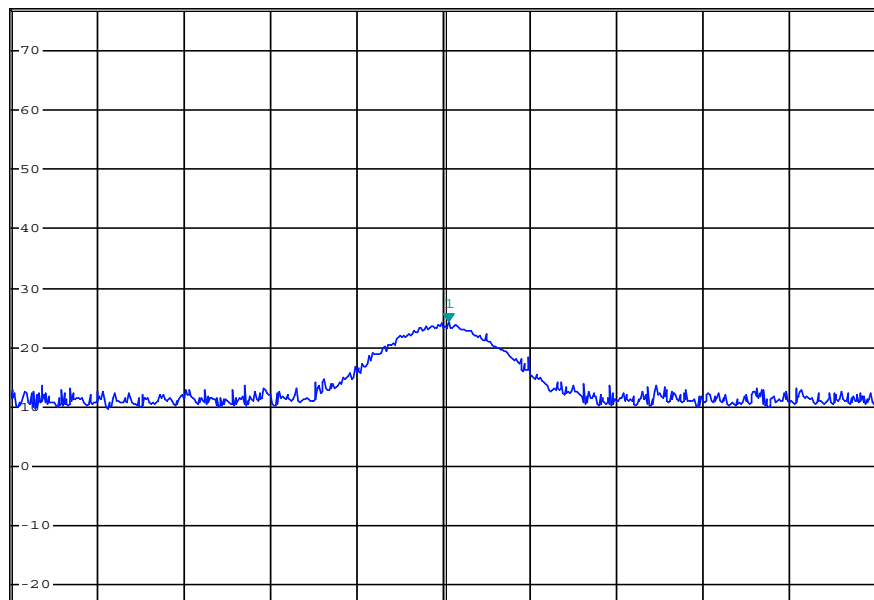
Ref 77 dBμV

\*Att 10 dB

\*SWT 100 ms

13.56060000 MHz

1 PK  
VIEW



Center 13.56 MHz

10 kHz/

Span 100 kHz

Date: 2.JUN.2021 13:04:53

Channel Frequency:

**13.56 MHz**

Detector:

**Peak**

Antenna Polarization:

**Front**

Modulation Setting:

**ASK**

Protocol:

**NFC**

Measured Field Strength:

**24.41 dBμV**

## Field Strength (Peak)

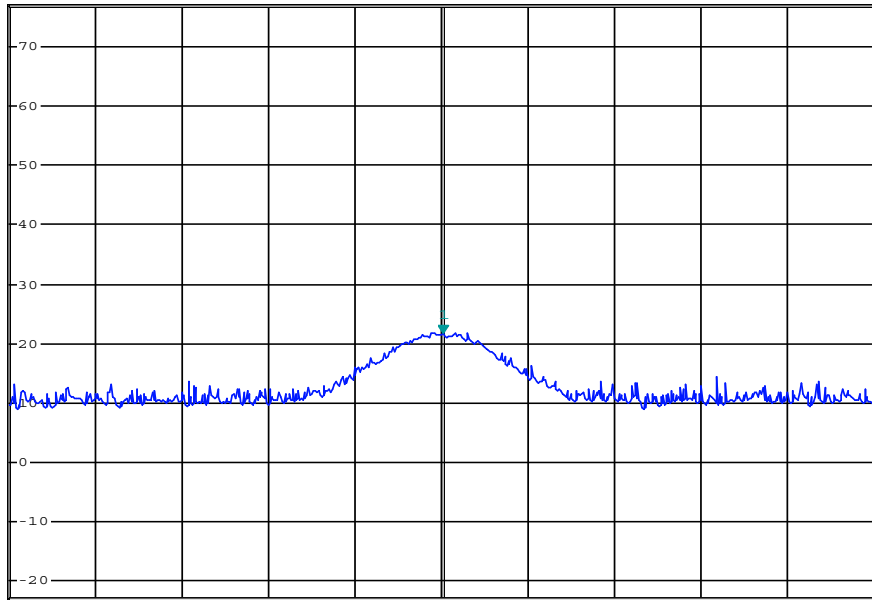


\*RBW 10 kHz    Marker 1 [T1 ]  
VBW 30 kHz    21.81 dBuV  
\*SWT 100 ms    13.56020000 MHz

Ref 77 dBuV

\*Att 10 dB

1 PK  
VIEW



Center 13.56 MHz

10 kHz/

Span 100 kHz

Date: 2.JUN.2021 13:06:34

Channel Frequency:

**13.56 MHz**

Detector:

**Peak**

Antenna Polarization:

**Side**

Modulation Setting:

**ASK**

Protocol:

**NFC**

Measured Field Strength:

**21.81 dBuV**