

## Summary of Radiated Tx Emissions

| Measured Frequency Range (MHz) | Channel Frequency | Antenna Polarization | Emission Frequency (MHz) | Measured Emission [E <sub>Meas</sub> ] (dBuV) | Antenna ACF [ACF] (dB) | Cable Loss [L <sub>c</sub> ] (dB) | Amplifier Gain [G <sub>A</sub> ] (dB) | Corrected Emission [E <sub>Corr</sub> ] (dBuV/m) | Limit (dBuV) | Margin (dB) |
|--------------------------------|-------------------|----------------------|--------------------------|-----------------------------------------------|------------------------|-----------------------------------|---------------------------------------|--------------------------------------------------|--------------|-------------|
| 30-1000MHz                     | 2412.0            | Horizontal           | 47.01                    | 9.24                                          | 14.60                  | 0.75                              | 0.00 (3)                              | 24.6 (2)                                         | 40.0         | 15.4        |
| 30-1000MHz                     | 2412.0            | Horizontal           | 56.73                    | 7.81                                          | 10.95                  | 0.80                              | 0.00 (3)                              | 19.6 (2)                                         | 40.0         | 20.4        |
| 30-1000MHz                     | 2412.0            | Horizontal           | 57.27                    | 8.03                                          | 10.87                  | 0.80                              | 0.00 (3)                              | 19.7 (2)                                         | 40.0         | 20.3        |
| 30-1000MHz                     | 2412.0            | Horizontal           | 60.24                    | 7.95                                          | 10.70                  | 0.81                              | 0.00 (3)                              | 19.5 (2)                                         | 40.0         | 20.5        |
| 30-1000MHz                     | 2412.0            | Horizontal           | 843.20                   | 9.19                                          | 29.58                  | 2.84                              | 0.00 (3)                              | 41.6 (2)                                         | 46.0         | 4.4         |
| 30-1000MHz                     | 2412.0            | Vertical             | 908.30                   | 8.76                                          | 29.50                  | 2.94                              | 0.00 (3)                              | 41.2 (2)                                         | 46.0         | 4.8         |
| 30-1000MHz                     | 2412.0            | Vertical             | 911.10                   | 8.60                                          | 29.41                  | 2.95                              | 0.00 (3)                              | 41.0 (2)                                         | 46.0         | 5.1         |
| 1 - 3GHz                       | 2412.0            | Horizontal           | ND                       | ND (1)                                        | 27.40                  | 4.58                              | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 1 - 3GHz                       | 2412.0            | Vertical             | ND                       | ND (1)                                        | 27.40                  | 4.58                              | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 3-13GHz                        | 2412.0            | Horizontal           | ND                       | ND (1)                                        | 36.76                  | 9.86                              | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 3-13GHz                        | 2412.0            | Vertical             | ND                       | ND (1)                                        | 36.76                  | 9.86                              | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 13-18GHz                       | 2412.0            | Horizontal           | ND                       | ND (1)                                        | 38.75                  | 16.54                             | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 13-18GHz                       | 2412.0            | Vertical             | ND                       | ND (1)                                        | 38.75                  | 16.54                             | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 18-26GHz                       | 2412.0            | Horizontal           | ND                       | ND (1)                                        | 43.50                  | 21.86                             | 26.00                                 | ND                                               | 54.0         | n/a         |
| 18-26GHz                       | 2412.0            | Vertical             | ND                       | ND (1)                                        | 43.50                  | 21.86                             | 26.00                                 | ND                                               | 54.0         | n/a         |
| Results:                       |                   |                      |                          |                                               |                        |                                   |                                       |                                                  | Complies     |             |

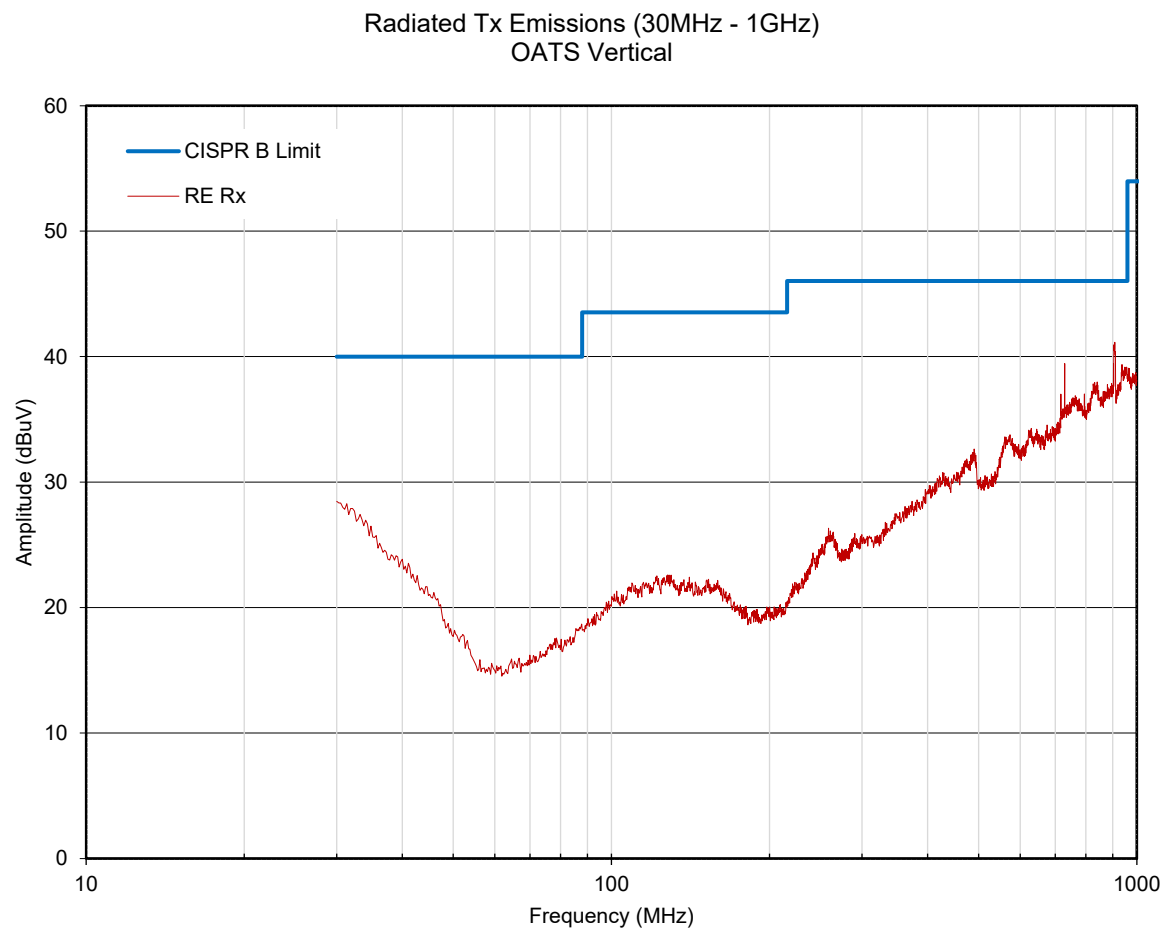
(1) No Emissions Detected (ND) above ambient or within 20dB of the limit

(2) Antenna ACF, Cable Loss and Amplifier Gain corrected in Spectrum Analyzer Transducer Factor

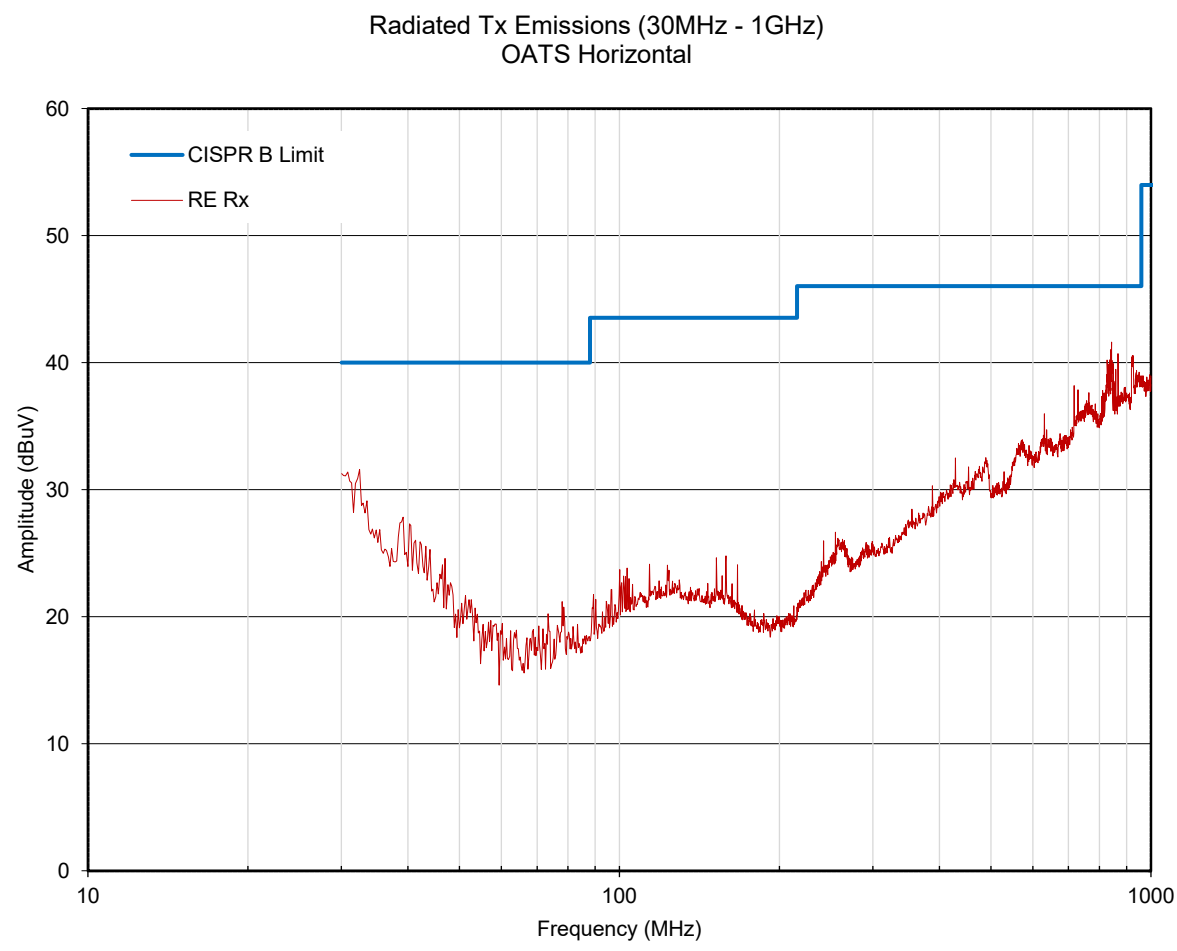
(3) External Amplifier not used

$$E_{\text{Corr}} = E_{\text{Meas}} + \text{ACF} + L_{\text{C}} - G_{\text{A}}$$

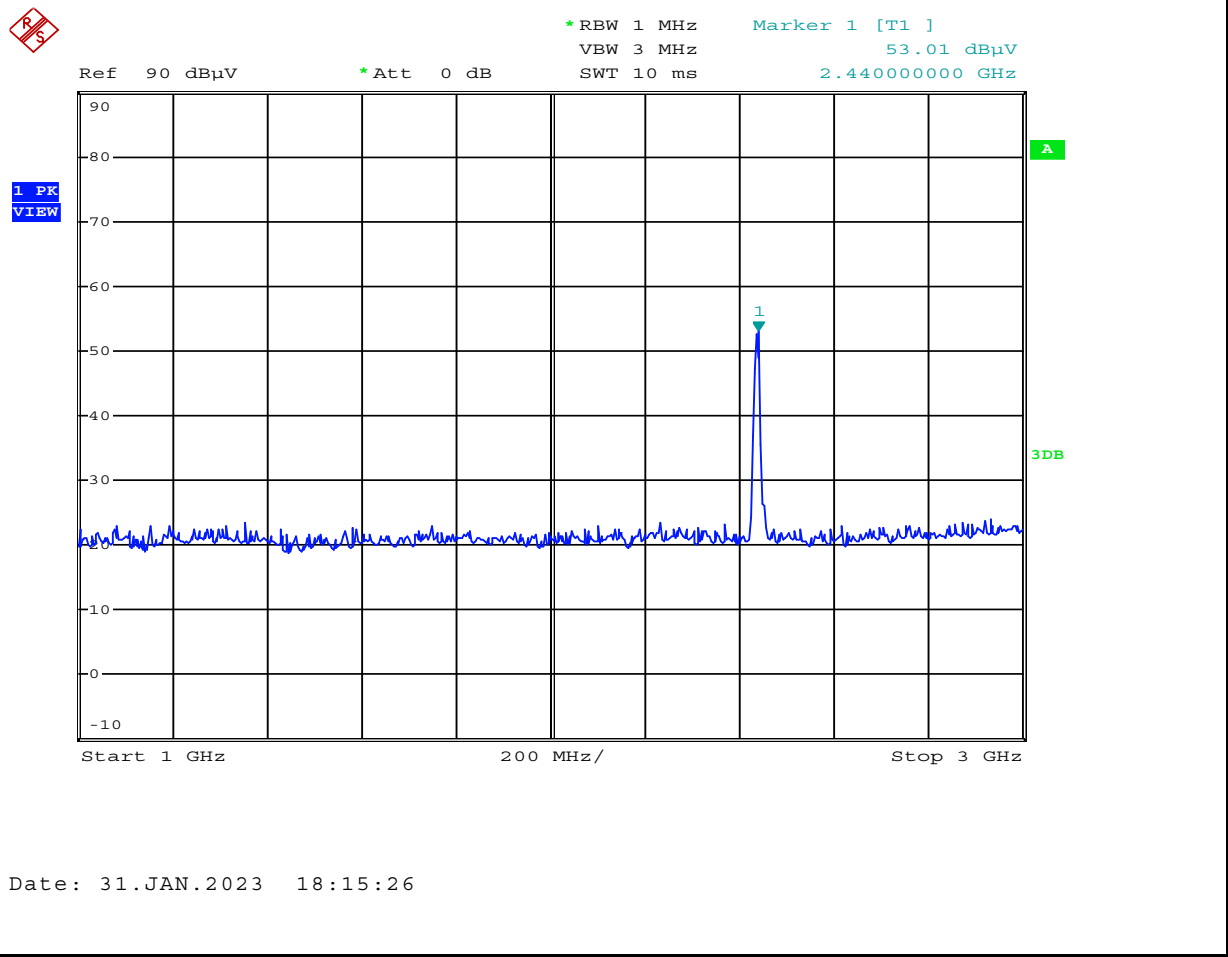
**Radiated Tx Emissions:**



**Radiated Tx Emissions:**



**Radiated Tx Emissions:**



Channel: 6

Mode: 802.11b

Polarization: Horizontal

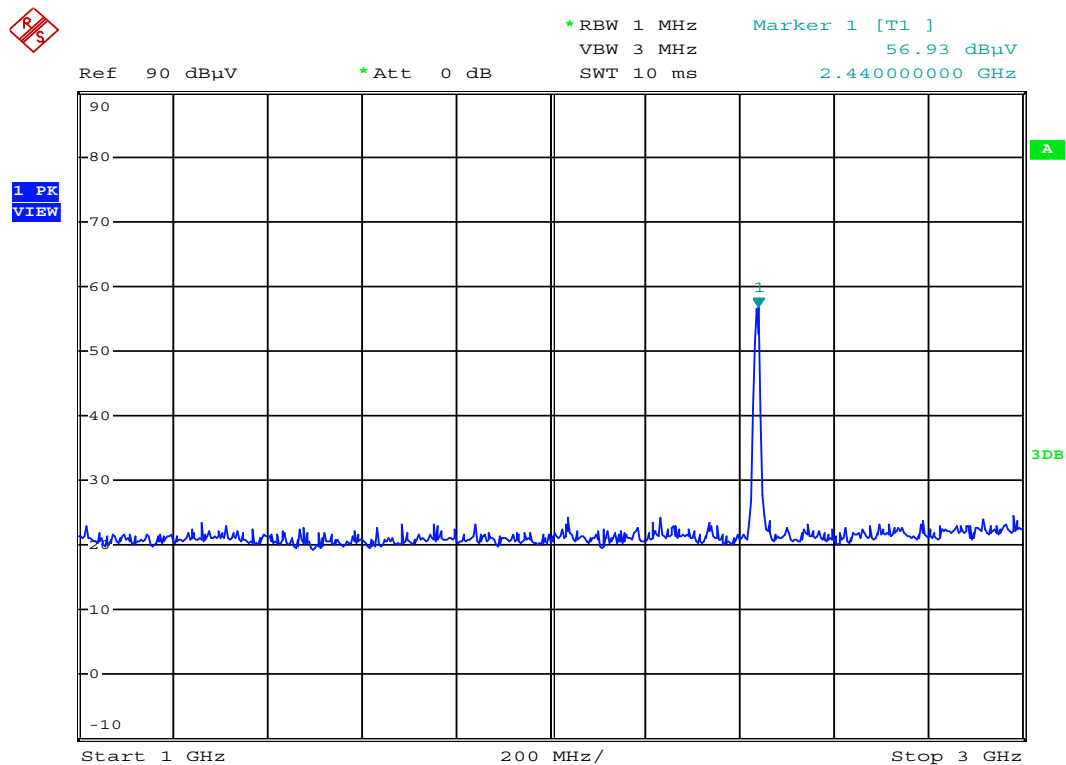
Marker 1 = Fundamental

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

**Radiated Tx Emissions:**



Date: 31.JAN.2023 18:17:01

Channel: 6

Mode: 802.11b

Polarization: Vertical

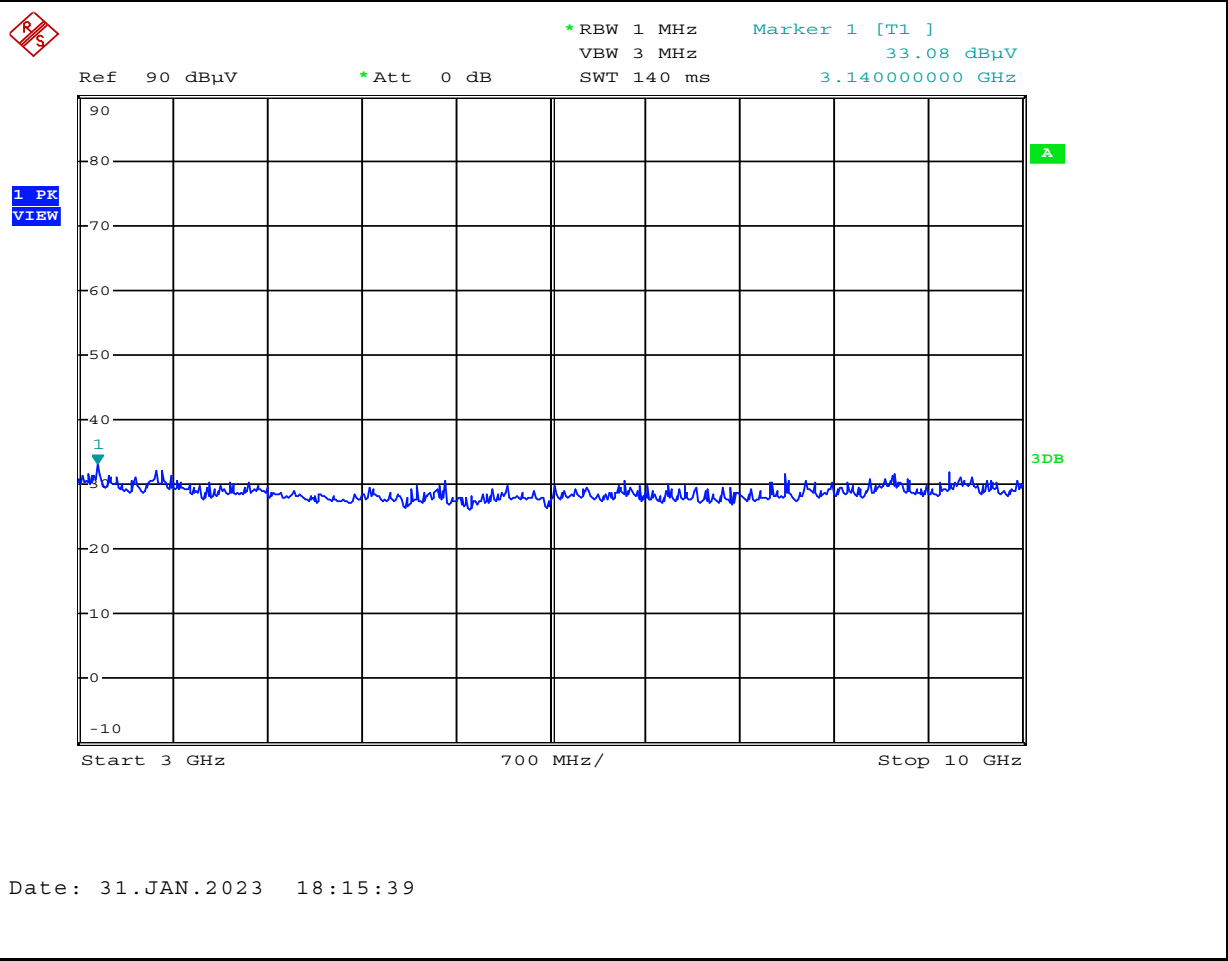
Marker 1 = Fundamental

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 6

Mode: 802.11b

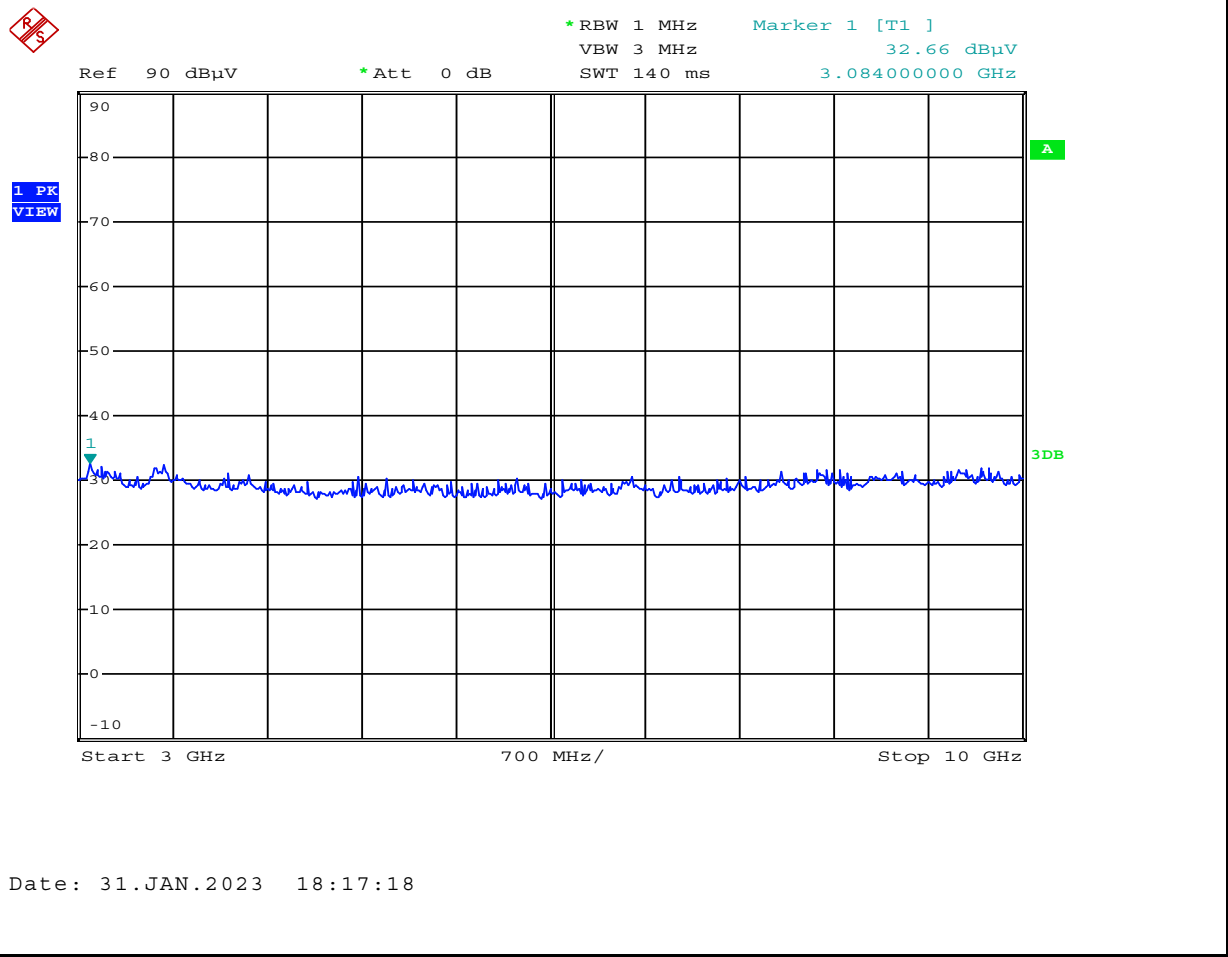
Polarization: Horizontal

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

|                               |
|-------------------------------|
| <b>Radiated Tx Emissions:</b> |
|-------------------------------|



Date: 31.JAN.2023 18:17:18

Channel: 6

Mode: 802.11b

Polarization: 

|          |
|----------|
| Vertical |
|----------|

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: **ND** dBm

## Radiated Tx Emissions:

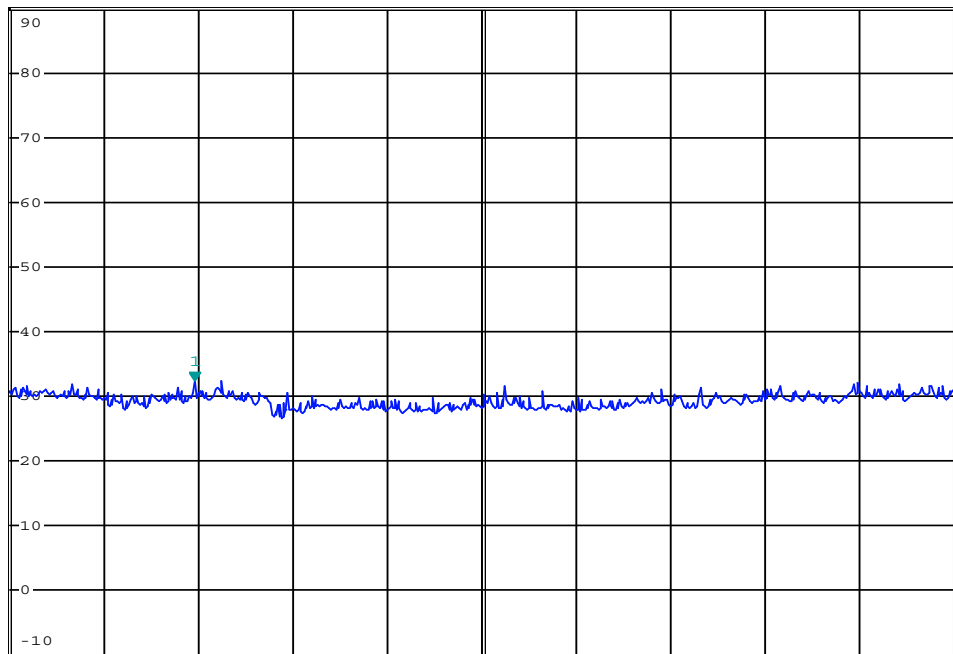


\*RBW 1 MHz      Marker 1 [T1 ]  
VBW 3 MHz      32.38 dBμV  
SWT 75 ms      10.705600000 GHz

Ref 90 dBμV

\*Att 0 dB

1 PK  
VIEW



Start 10 GHz

360 MHz/

Stop 13.6 GHz

Date: 31.JAN.2023 18:15:56

Channel: 6

Mode: 802.11b

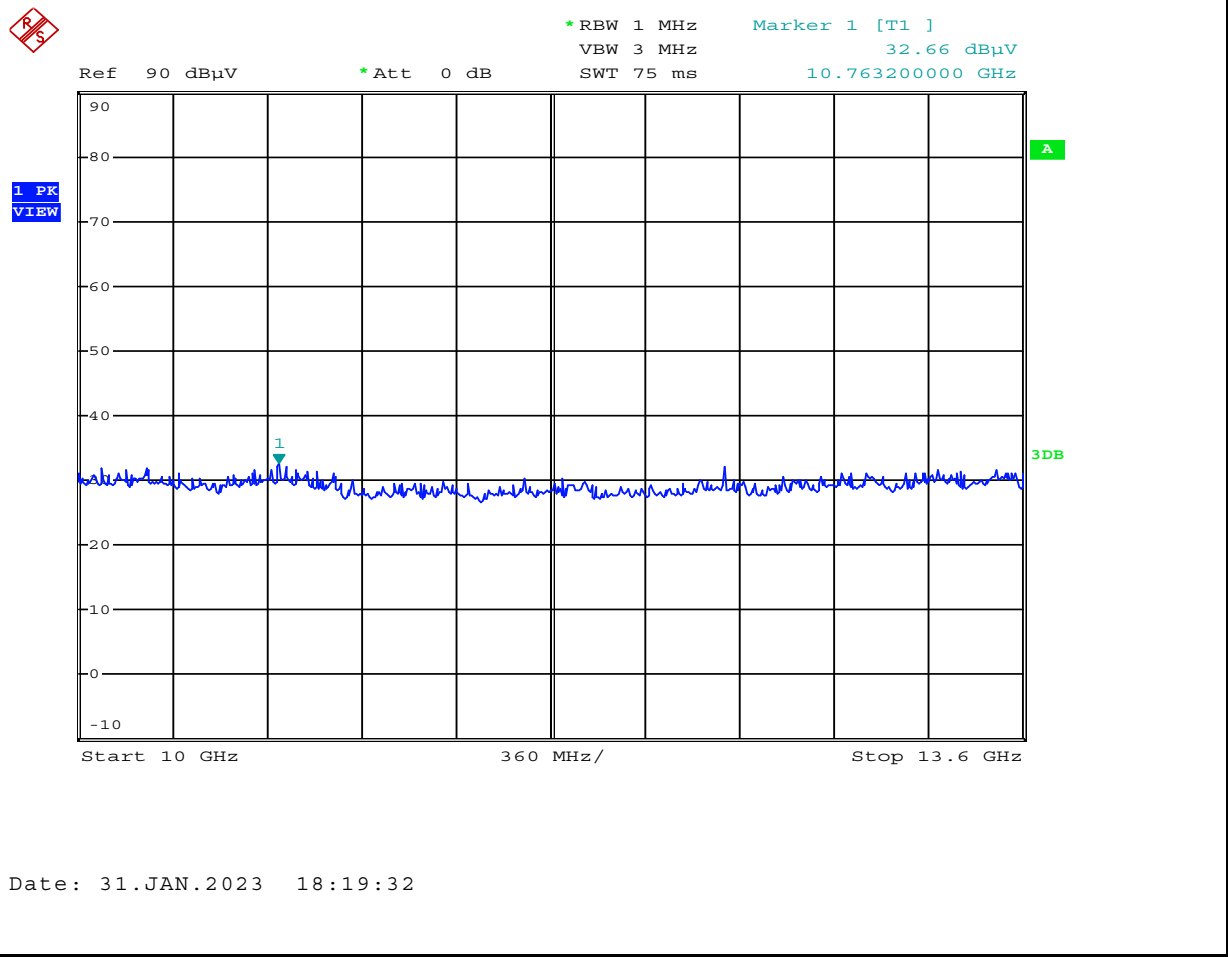
Polarization: Horizontal

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

**Radiated Tx Emissions:**



Channel: 6

Mode: 802.11b

Polarization: Vertical

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

## Radiated Tx Emissions:

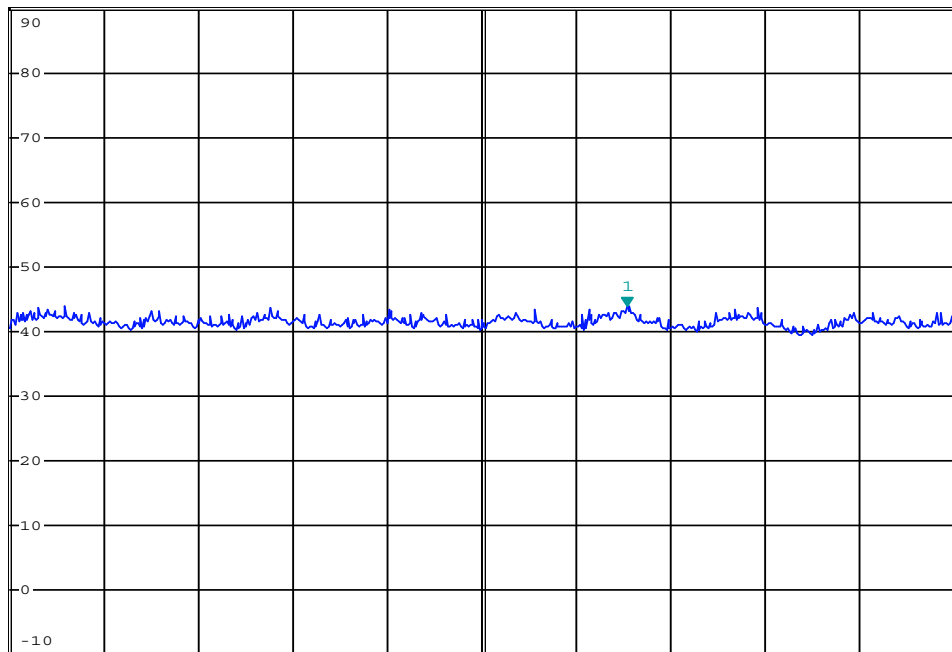


\*RBW 1 MHz      Marker 1 [T1 ]  
VBW 3 MHz      43.87 dBμV  
SWT 90 ms      16.477600000 GHz

Ref 90 dBμV

\*Att 0 dB

1 PK  
MAXH



Start 13.6 GHz

440 MHz/

Stop 18 GHz

Date: 31.JAN.2023 18:16:13

Channel: 6

Mode: 802.11b

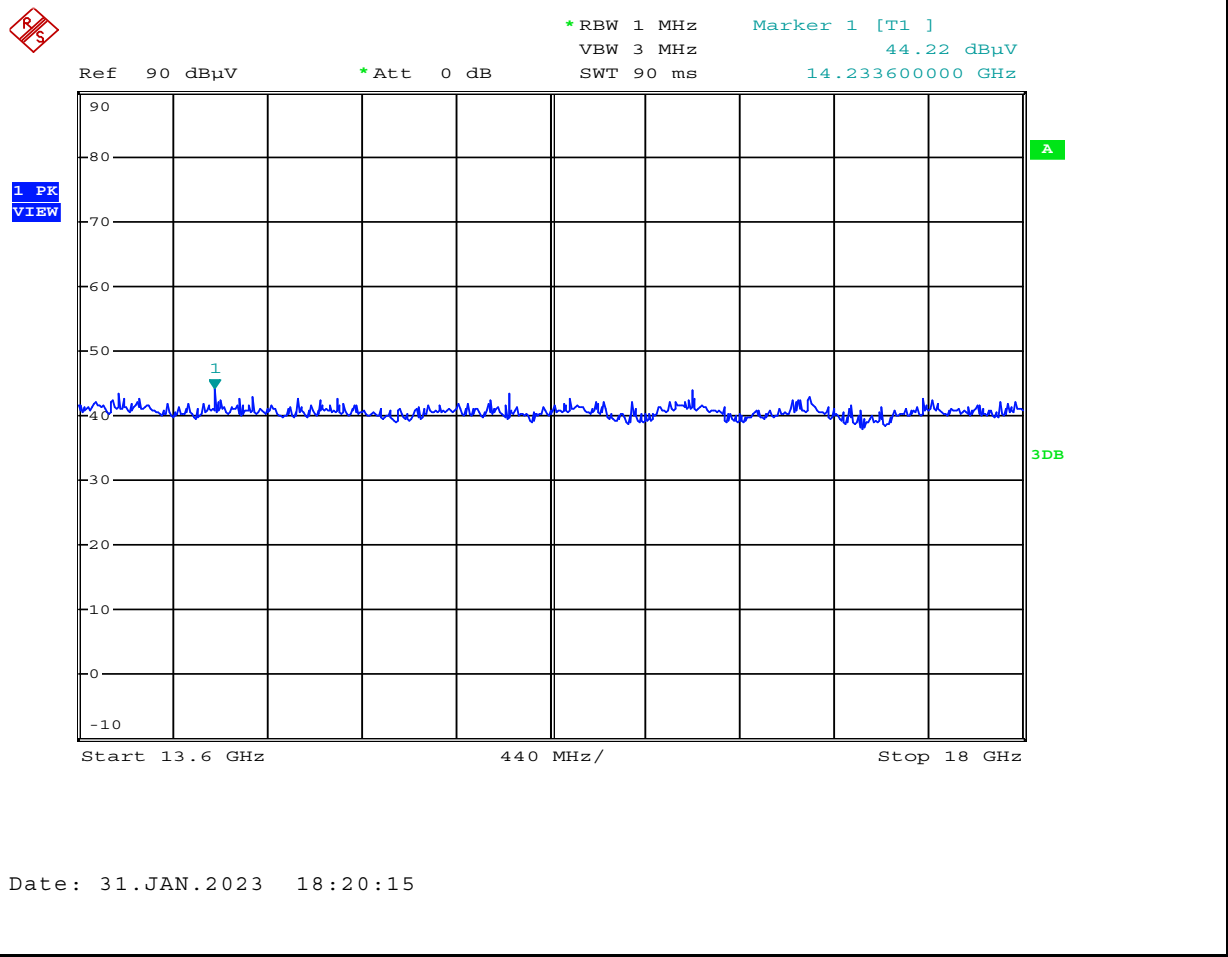
Polarization: Horizontal

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

**Radiated Tx Emissions:**



Channel:

Mode:

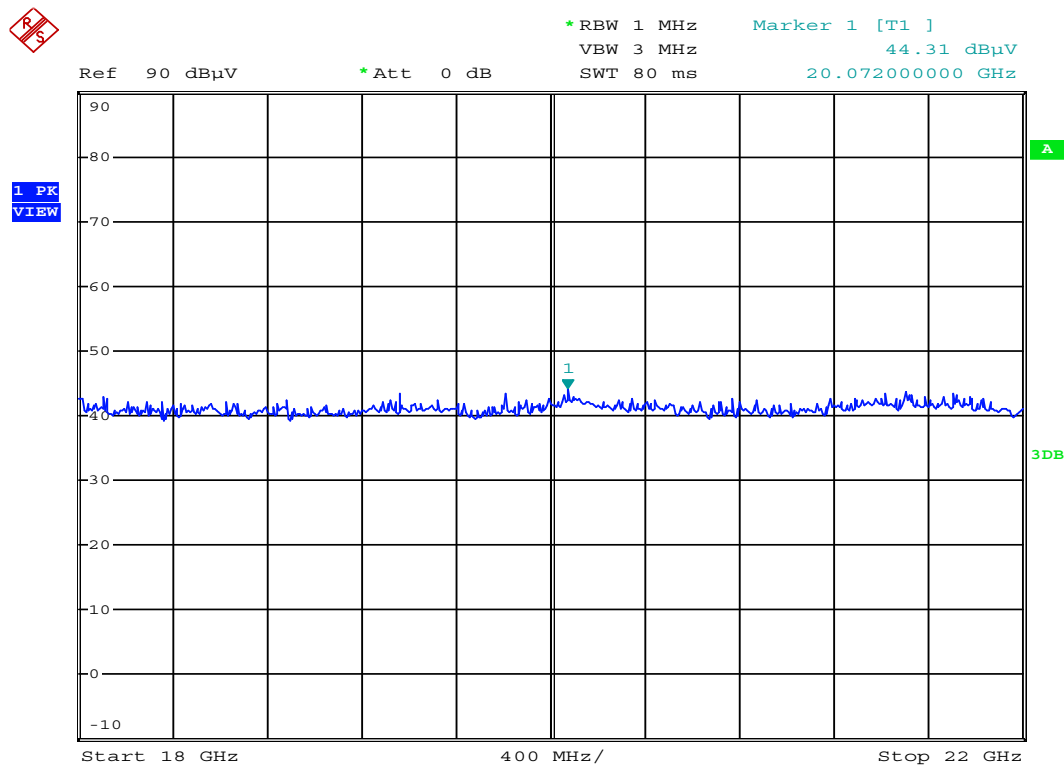
Polarization:

Channel Frequency:  MHz

Modulation:

Measured Emission:  dBm

**Radiated Tx Emissions:**



Date: 31.JAN.2023 18:37:10

Channel: 6

Mode: 802.11b

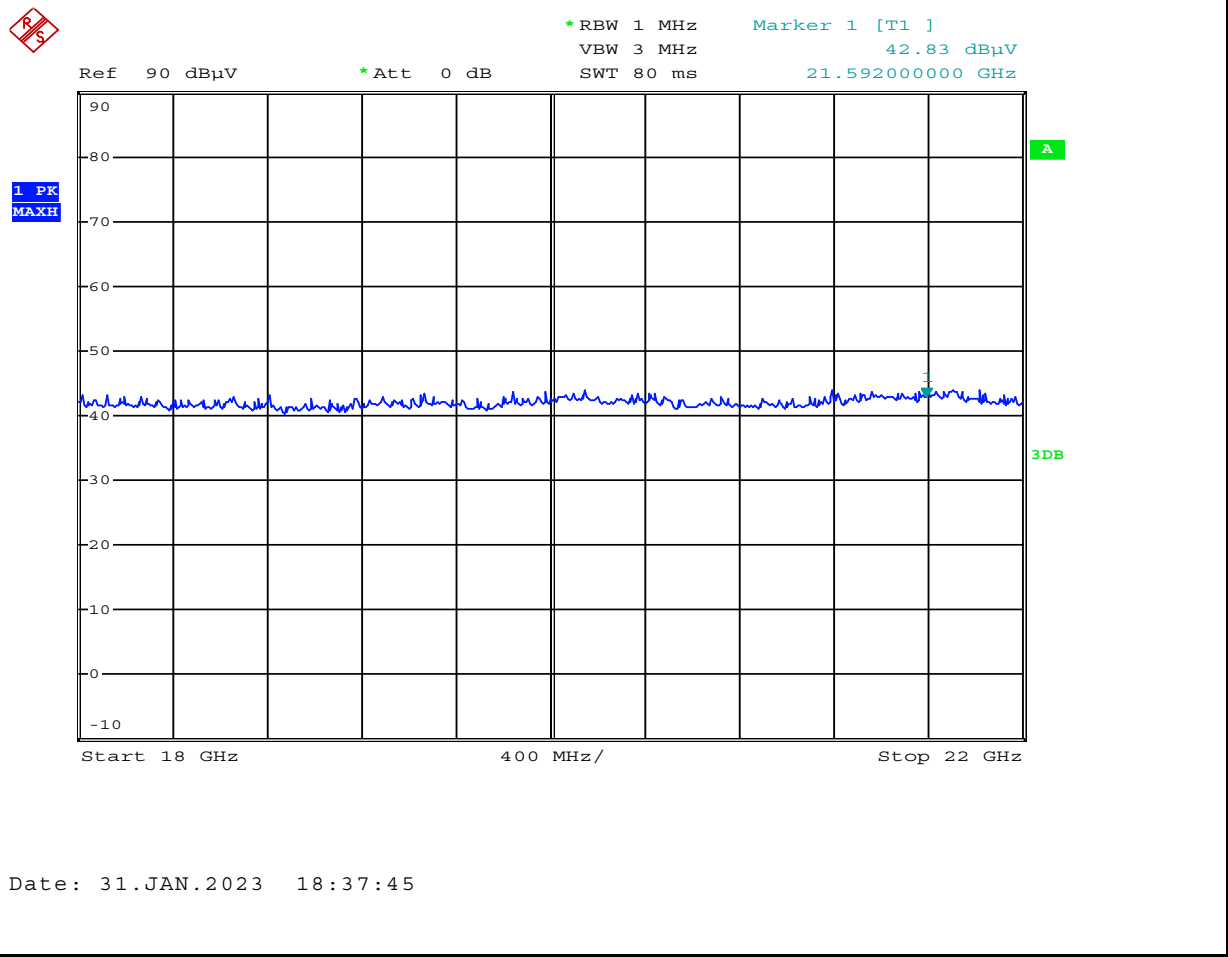
Polarization: Horizontal

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

|                               |
|-------------------------------|
| <b>Radiated Tx Emissions:</b> |
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Date: 31.JAN.2023 18:37:45

Channel: 6

Mode: 802.11b

Polarization: 

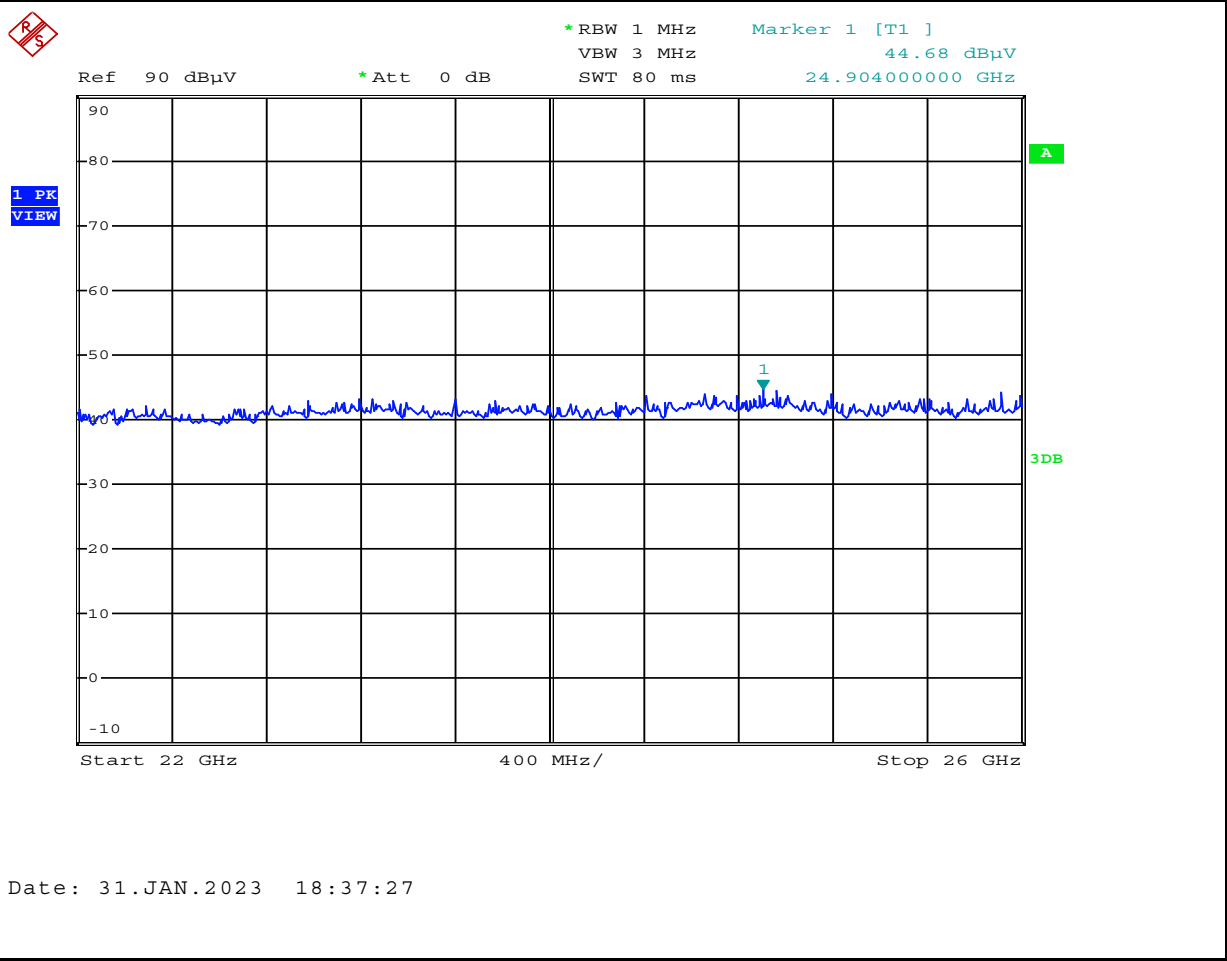
|          |
|----------|
| Vertical |
|----------|

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: **ND** dBm

Radiated Tx Emissions:



Channel: 6

Mode: 802.11b

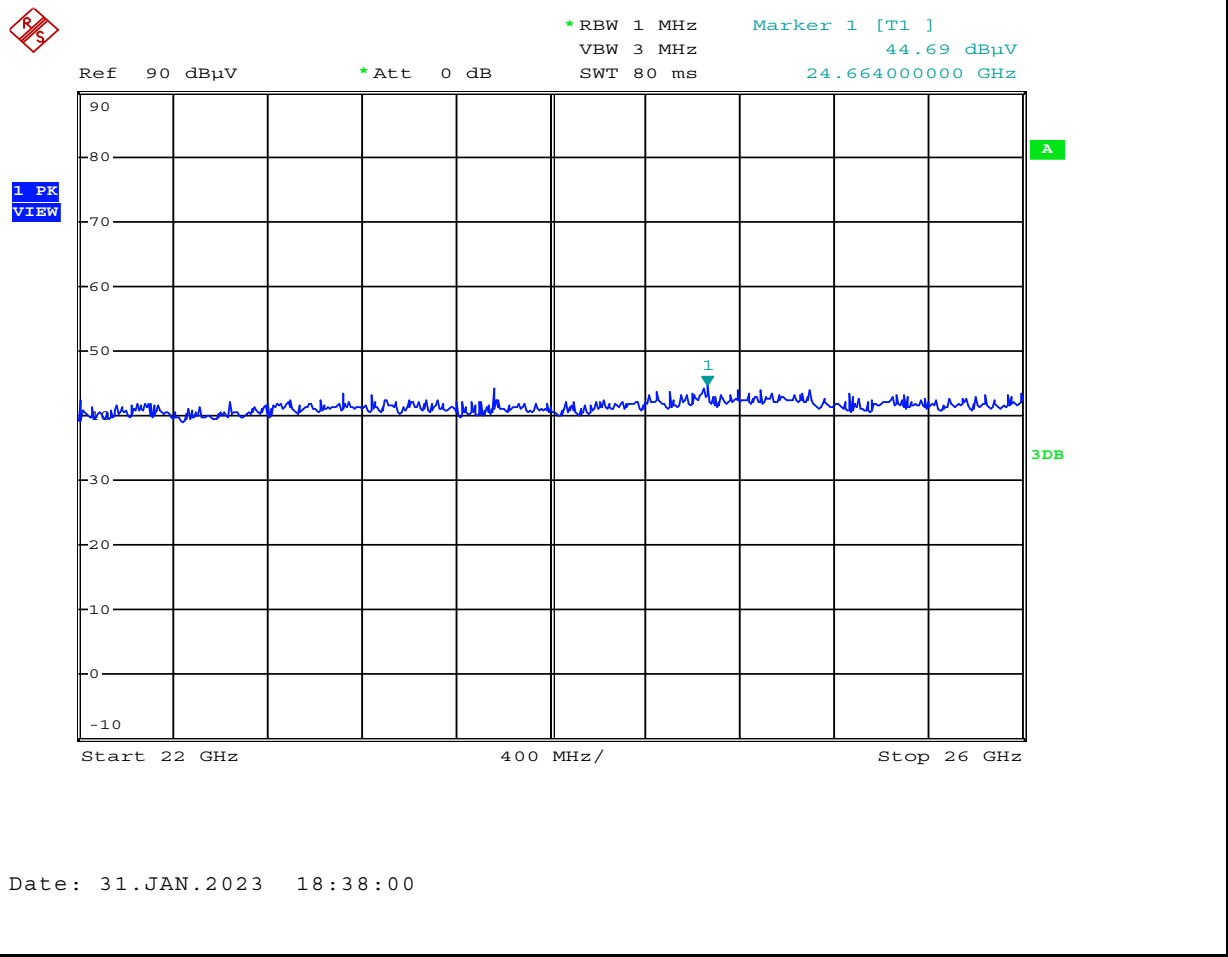
Polarization: Horizontal

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

**Radiated Tx Emissions:**



Channel:

Mode:

Polarization:

Channel Frequency:  MHz

Modulation:

Measured Emission:  dBm

## Summary of Radiated Tx Emissions

| Measured Frequency Range (MHz) | Channel Frequency | Antenna Polarization | Emission Frequency (MHz) | Measured Emission [E <sub>Meas</sub> ] (dBuV) | Antenna ACF [ACF] (dB) | Cable Loss [L <sub>C</sub> ] (dB) | Amplifier Gain [G <sub>A</sub> ] (dB) | Corrected Emission [E <sub>Corr</sub> ] (dBuV/m) | Limit (dBuV) | Margin (dB) |
|--------------------------------|-------------------|----------------------|--------------------------|-----------------------------------------------|------------------------|-----------------------------------|---------------------------------------|--------------------------------------------------|--------------|-------------|
| 30-1000MHz                     | 2440.0            | Horizontal           | 56.46                    | 7.48                                          | 11.01                  | 0.79                              | 0.00 (3)                              | 19.3 (2)                                         | 40.0         | 20.7        |
| 30-1000MHz                     | 2440.0            | Horizontal           | 61.32                    | 7.44                                          | 10.70                  | 0.82                              | 0.00 (3)                              | 19.0 (2)                                         | 40.0         | 21.0        |
| 30-1000MHz                     | 2440.0            | Horizontal           | 67.80                    | 7.37                                          | 11.18                  | 0.85                              | 0.00 (3)                              | 19.4 (2)                                         | 40.0         | 20.6        |
| 30-1000MHz                     | 2440.0            | Horizontal           | 843.20                   | 8.76                                          | 29.58                  | 2.84                              | 0.00 (3)                              | 41.2 (2)                                         | 46.0         | 4.8         |
| 30-1000MHz                     | 2440.0            | Horizontal           | 867.70                   | 8.42                                          | 29.40                  | 2.88                              | 0.00 (3)                              | 40.7 (2)                                         | 46.0         | 5.3         |
| 30-1000MHz                     | 2440.0            | Horizontal           | 922.30                   | 8.61                                          | 29.70                  | 2.97                              | 0.00 (3)                              | 41.3 (2)                                         | 46.0         | 4.7         |
| 30-1000MHz                     | 2440.0            | Vertical             | 908.30                   | 8.86                                          | 29.50                  | 2.94                              | 0.00 (3)                              | 41.3 (2)                                         | 46.0         | 4.7         |
| 30-1000MHz                     | 2440.0            | Vertical             | 911.10                   | 8.70                                          | 29.41                  | 2.95                              | 0.00 (3)                              | 41.1 (2)                                         | 46.0         | 5.0         |
| 1 - 3GHz                       | 2440.0            | Horizontal           | ND                       | ND (1)                                        | 27.40                  | 4.58                              | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 1 - 3GHz                       | 2440.0            | Vertical             | ND                       | ND (1)                                        | 27.40                  | 4.58                              | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 3-13GHz                        | 2440.0            | Horizontal           | ND                       | ND (1)                                        | 36.76                  | 9.86                              | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 3-13GHz                        | 2440.0            | Vertical             | ND                       | ND (1)                                        | 36.76                  | 9.86                              | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 13-18GHz                       | 2440.0            | Horizontal           | ND                       | ND (1)                                        | 38.75                  | 16.54                             | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 13-18GHz                       | 2440.0            | Vertical             | ND                       | ND (1)                                        | 38.75                  | 16.54                             | 0.00 (3)                              | ND                                               | 54.0         | n/a         |
| 18-26GHz                       | 2440.0            | Horizontal           | ND                       | ND (1)                                        | 43.50                  | 21.86                             | 26.00                                 | ND                                               | 54.0         | n/a         |
| 18-26GHz                       | 2440.0            | Vertical             | ND                       | ND (1)                                        | 43.50                  | 21.86                             | 26.00                                 | ND                                               | 54.0         | n/a         |
| Results:                       |                   |                      |                          |                                               |                        |                                   |                                       |                                                  | Complies     |             |

(1) No Emissions Detected (ND) above ambient or within 20dB of the limit

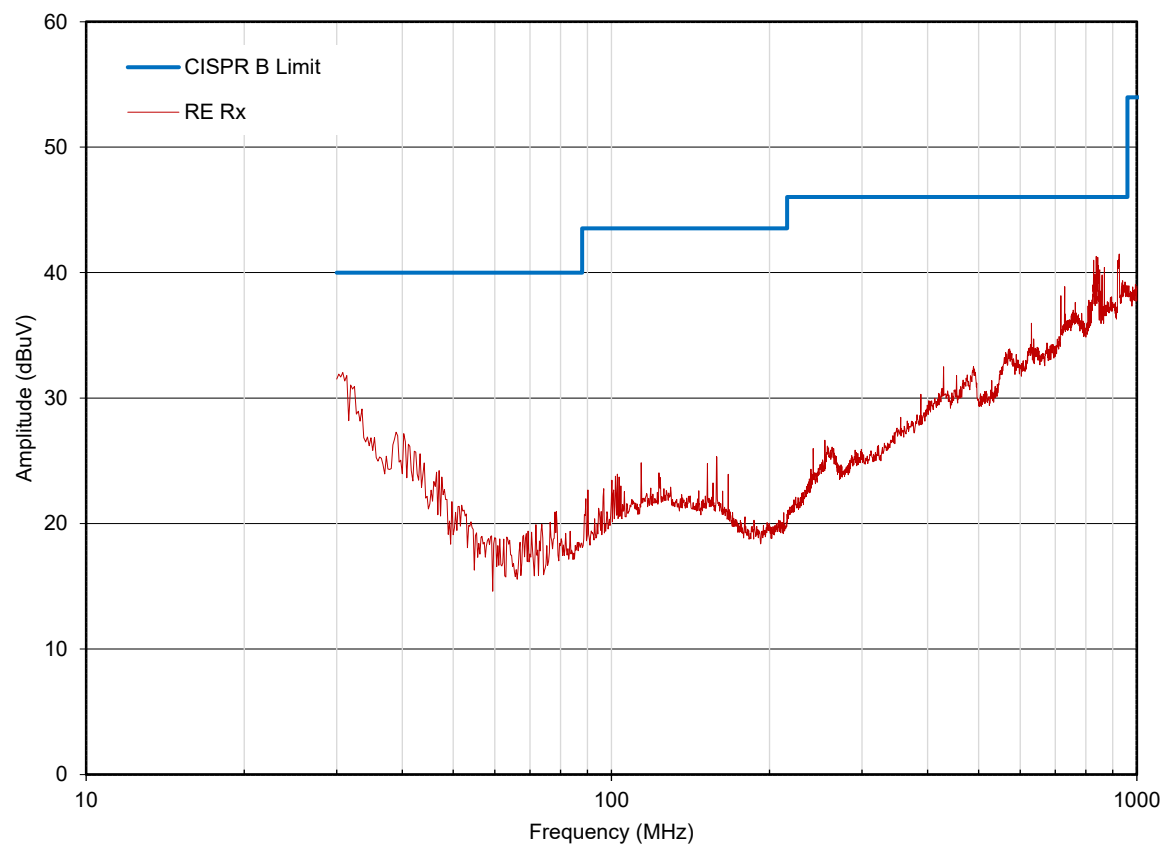
(2) Antenna ACF, Cable Loss and Amplifier Gain corrected in Spectrum Analyzer Transducer Factor

(3) External Amplifier not used

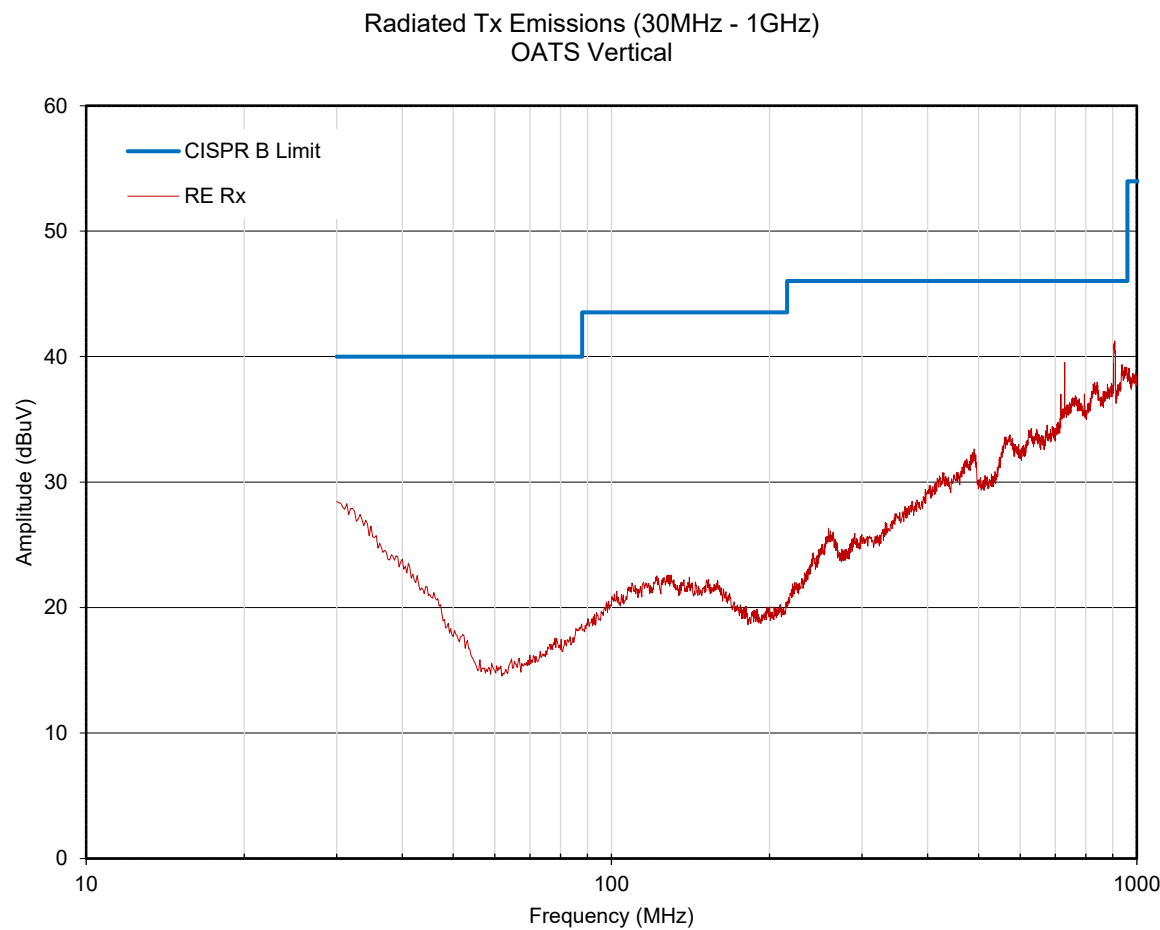
$$E_{\text{Corr}} = E_{\text{Meas}} + \text{ACF} + L_{\text{C}} - G_{\text{A}}$$

## Radiated Tx Emissions:

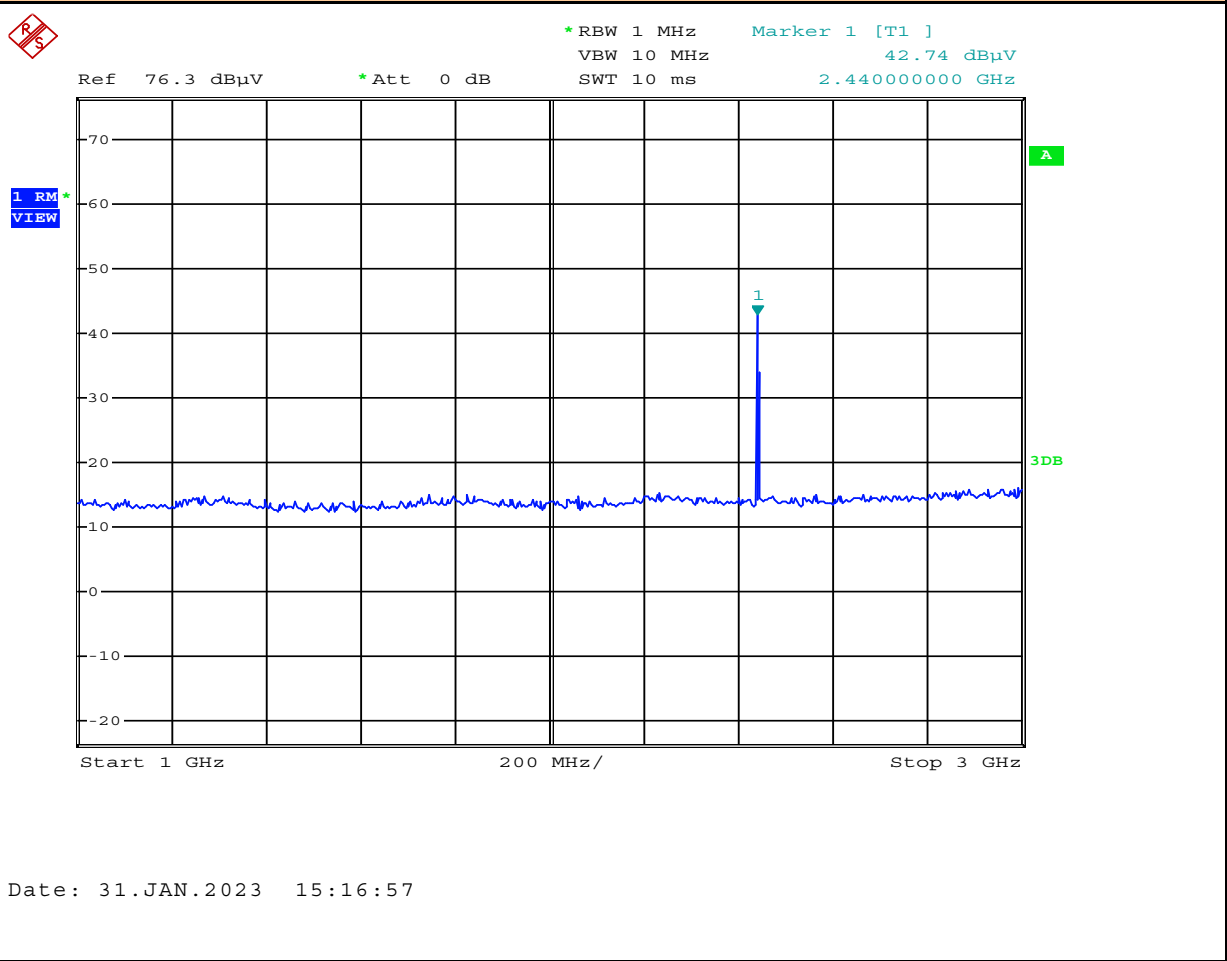
Radiated Tx Emissions (30MHz - 1GHz)  
OATS Horizontal



Radiated Tx Emissions:



Radiated Tx Emissions:



Channel: 38

Mode: BT BR

Polarization: Horizontal

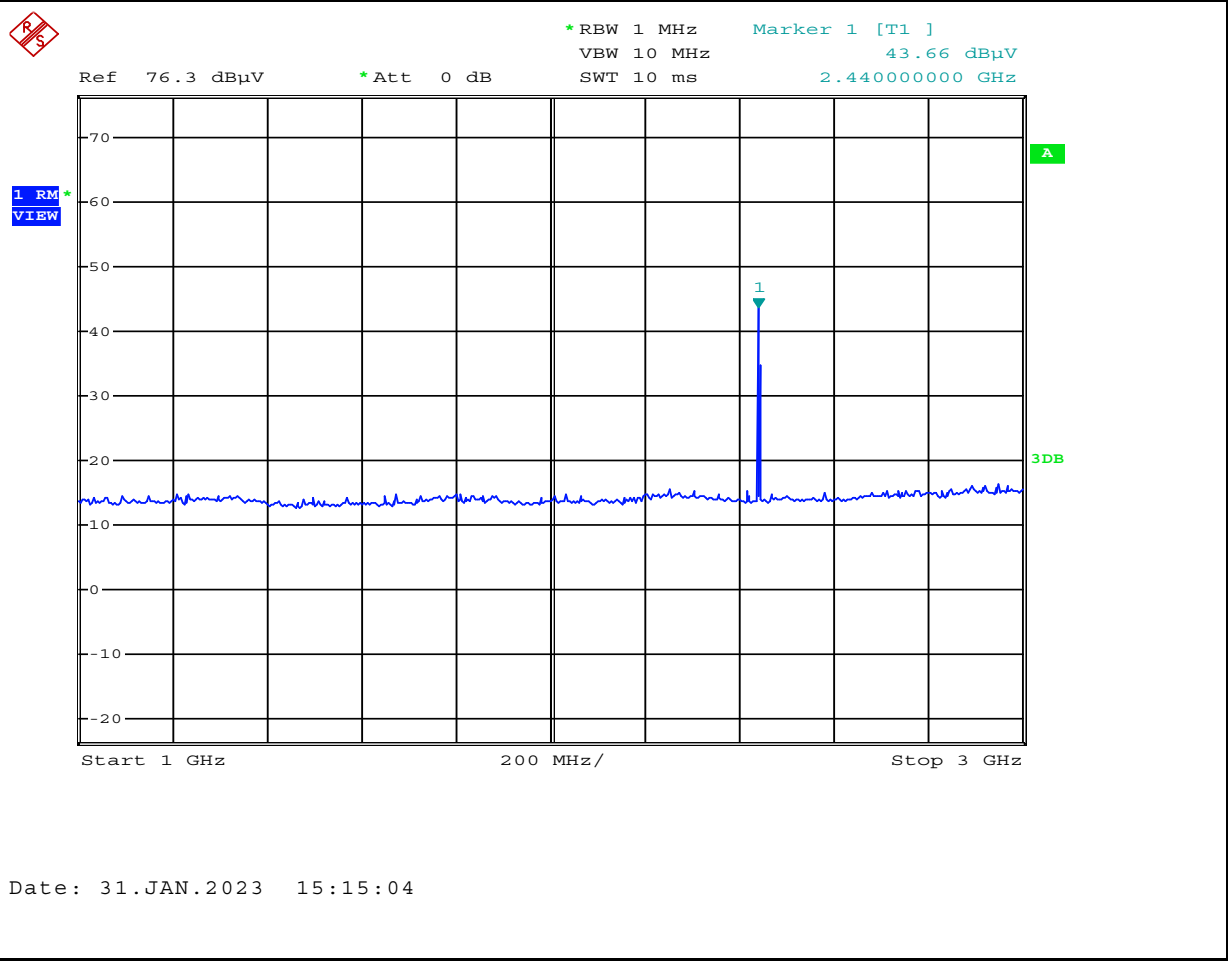
Marker 1 = Fundamental

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

Polarization: Vertical

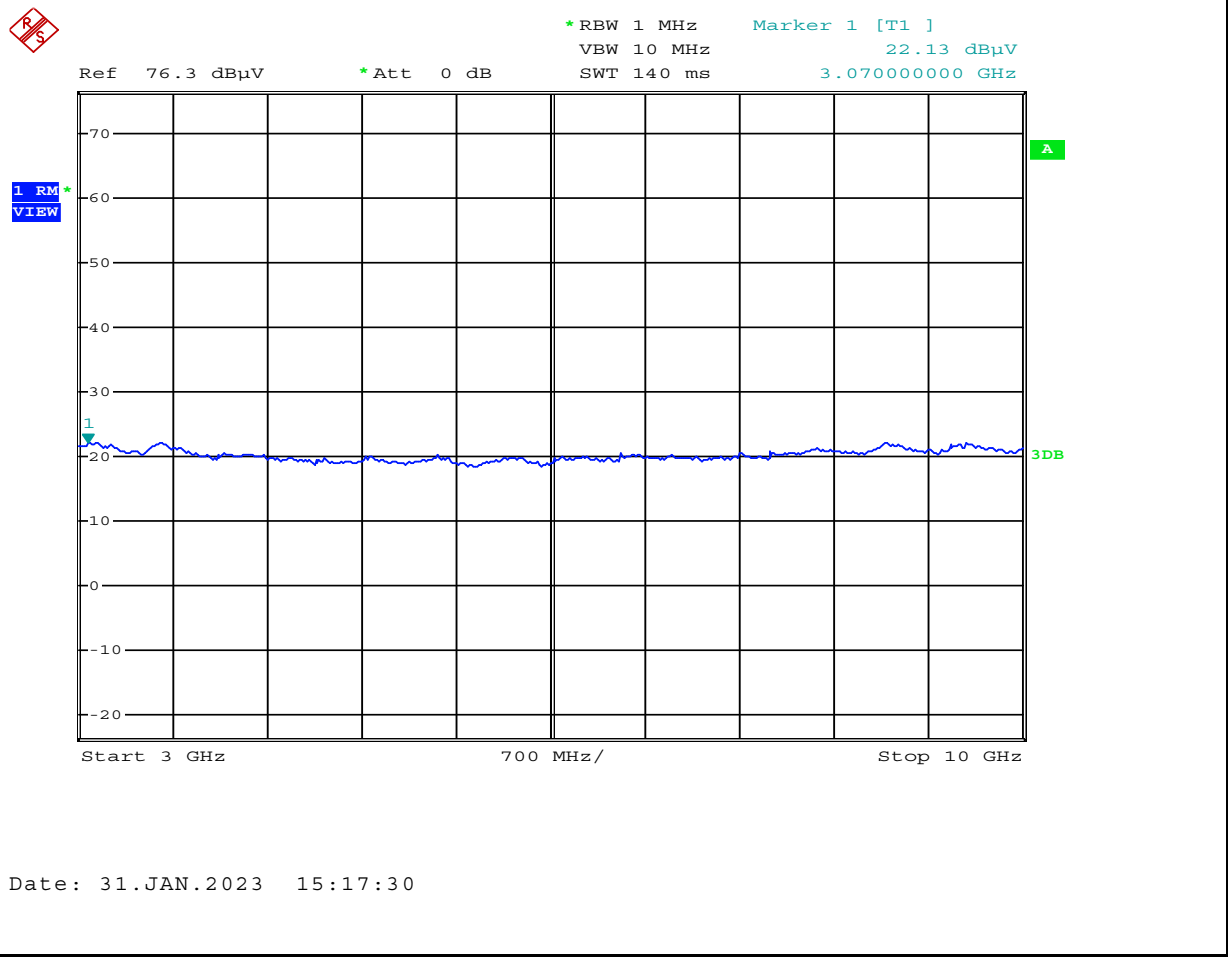
Marker 1 = Fundamental

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

|                               |
|-------------------------------|
| <b>Radiated Tx Emissions:</b> |
|-------------------------------|

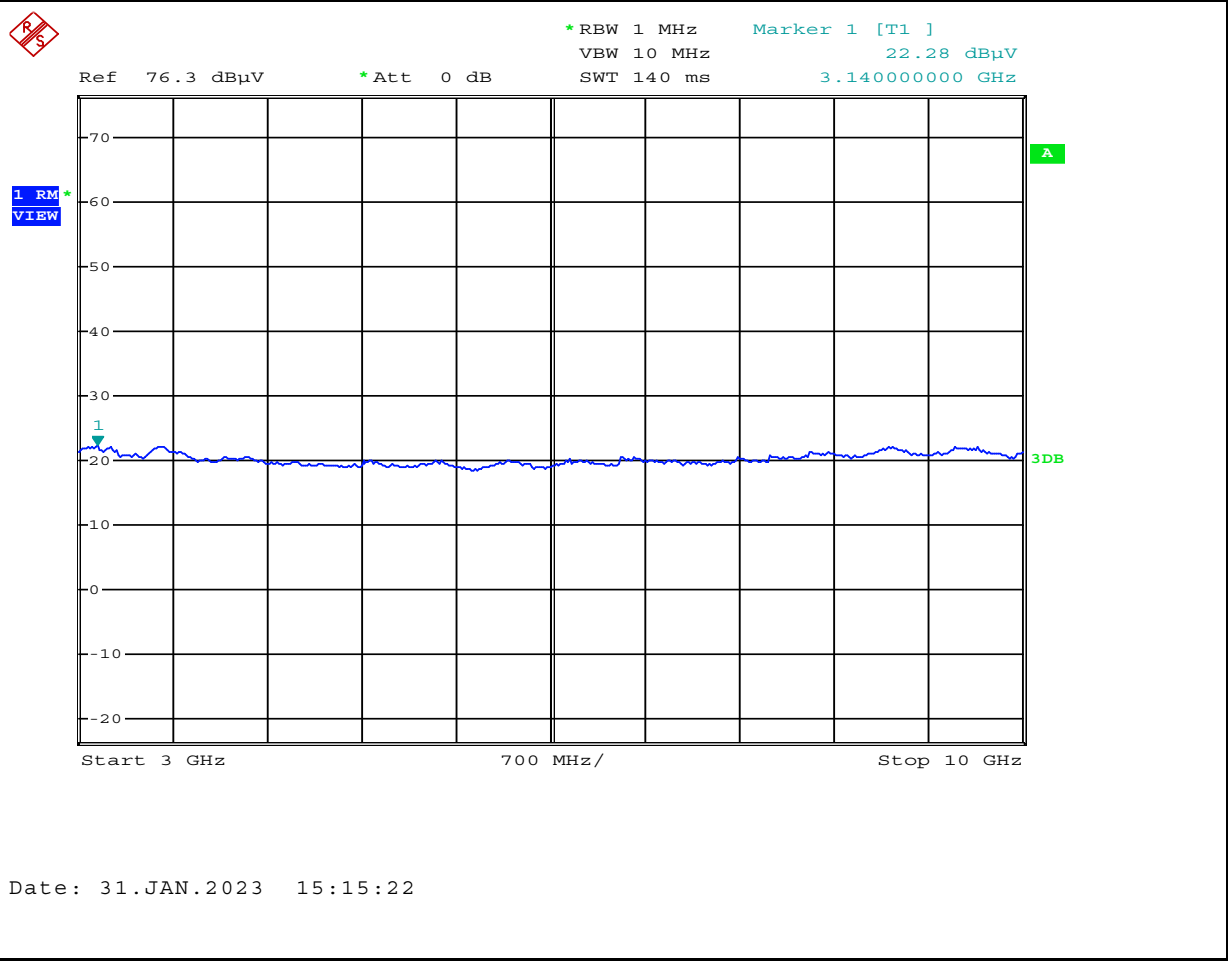


Date: 31.JAN.2023 15:17:30

|               |            |
|---------------|------------|
| Channel:      | 38         |
| Mode:         | BT BR      |
| Polarization: | Horizontal |

|                    |      |     |
|--------------------|------|-----|
| Channel Frequency: | 2440 | MHz |
| Modulation:        | GFSK |     |
| Measured Emission: | ND   | dBm |

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

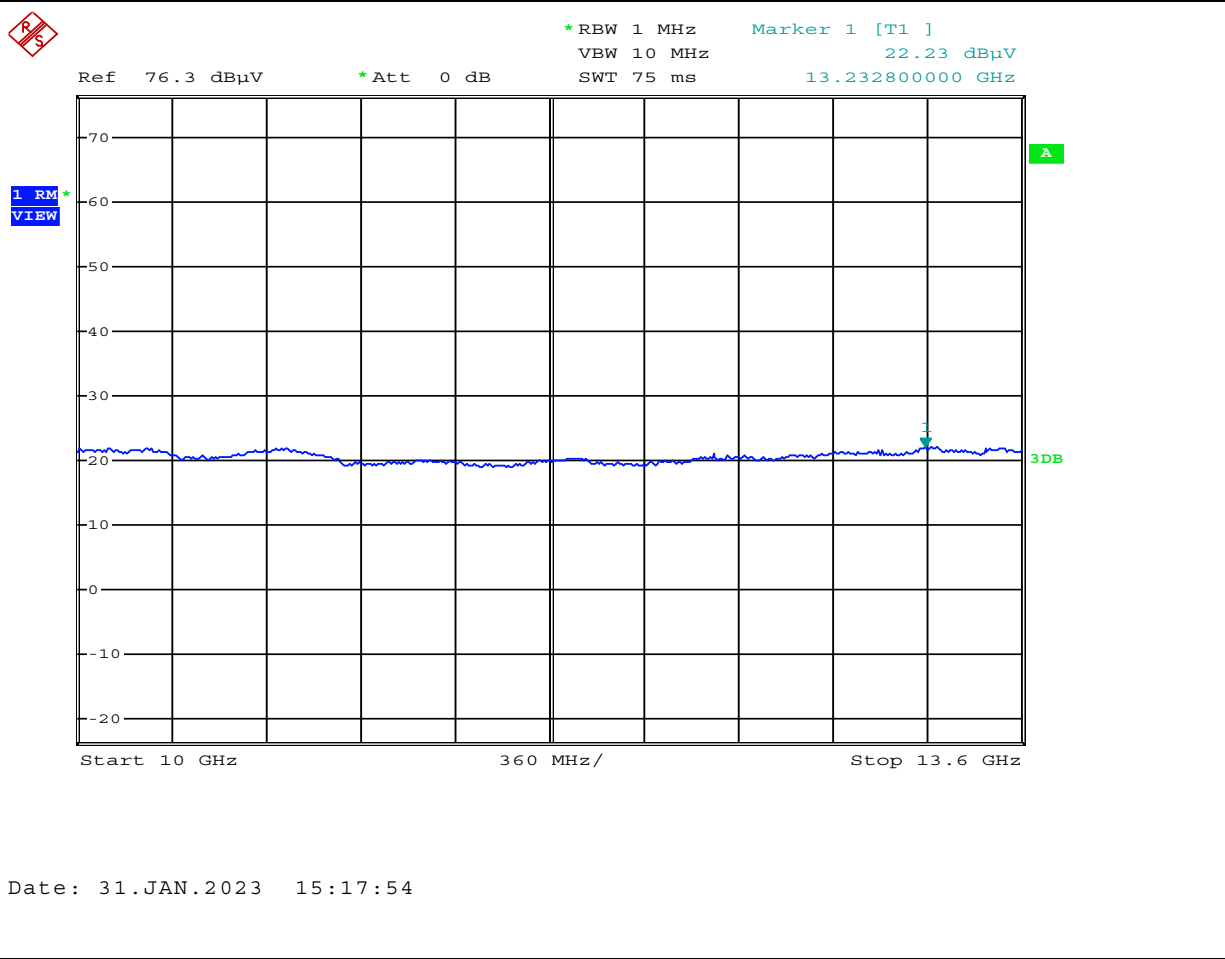
Polarization: Vertical

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

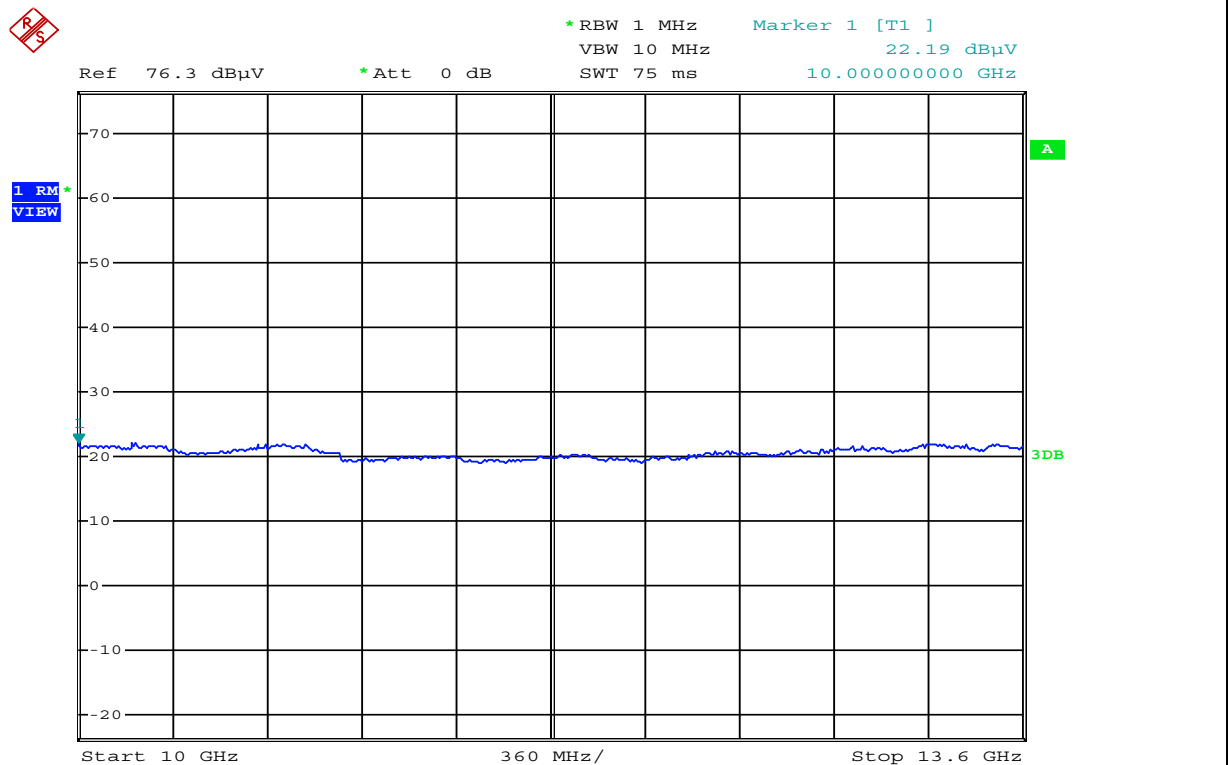
Polarization: Horizontal

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

|                               |
|-------------------------------|
| <b>Radiated Tx Emissions:</b> |
|-------------------------------|

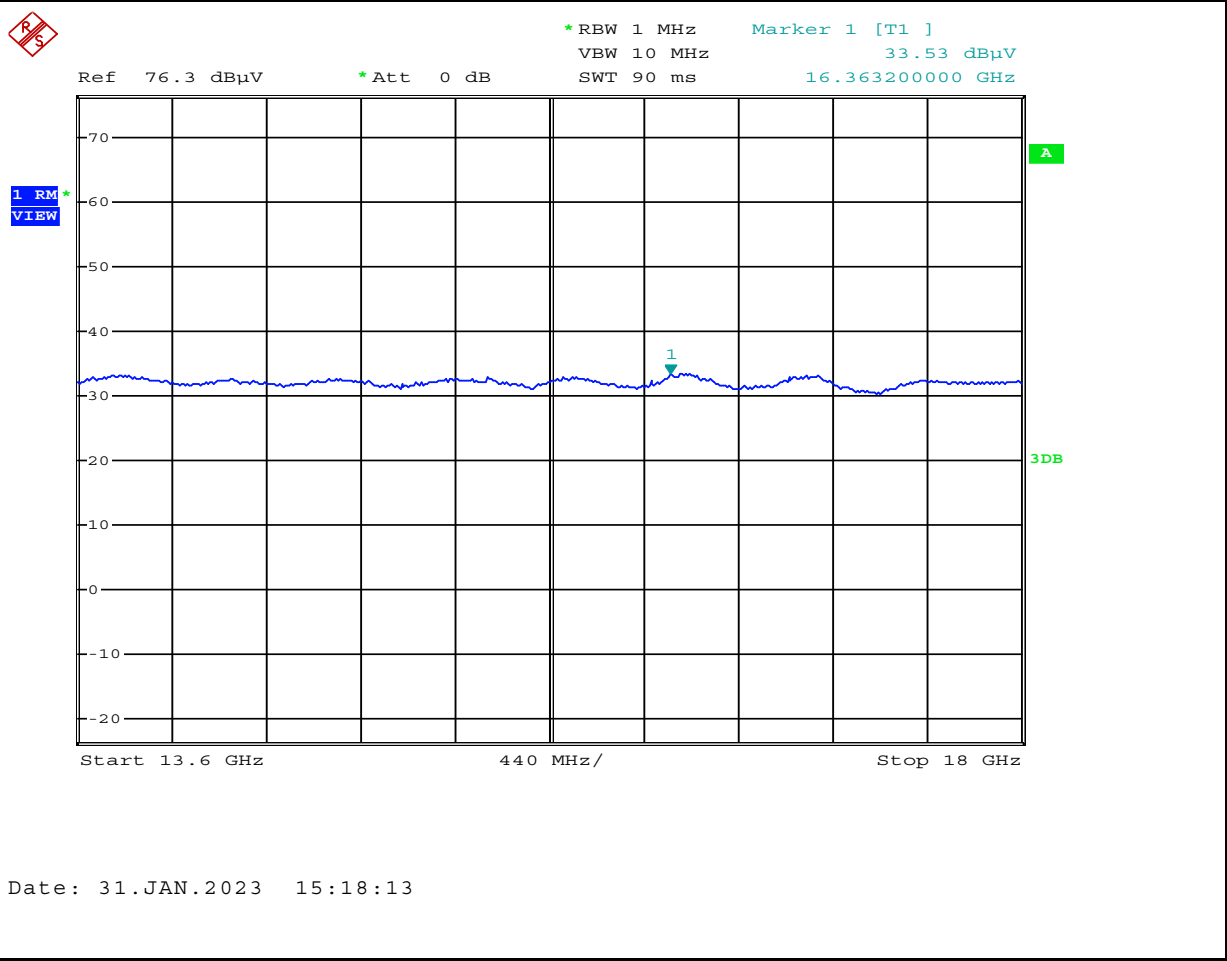


Date: 31.JAN.2023 15:15:40

|               |          |
|---------------|----------|
| Channel:      | 38       |
| Mode:         | BT BR    |
| Polarization: | Vertical |

|                    |      |     |
|--------------------|------|-----|
| Channel Frequency: | 2440 | MHz |
| Modulation:        | GFSK |     |
| Measured Emission: | ND   | dBm |

Radiated Tx Emissions:



Channel:

Mode:

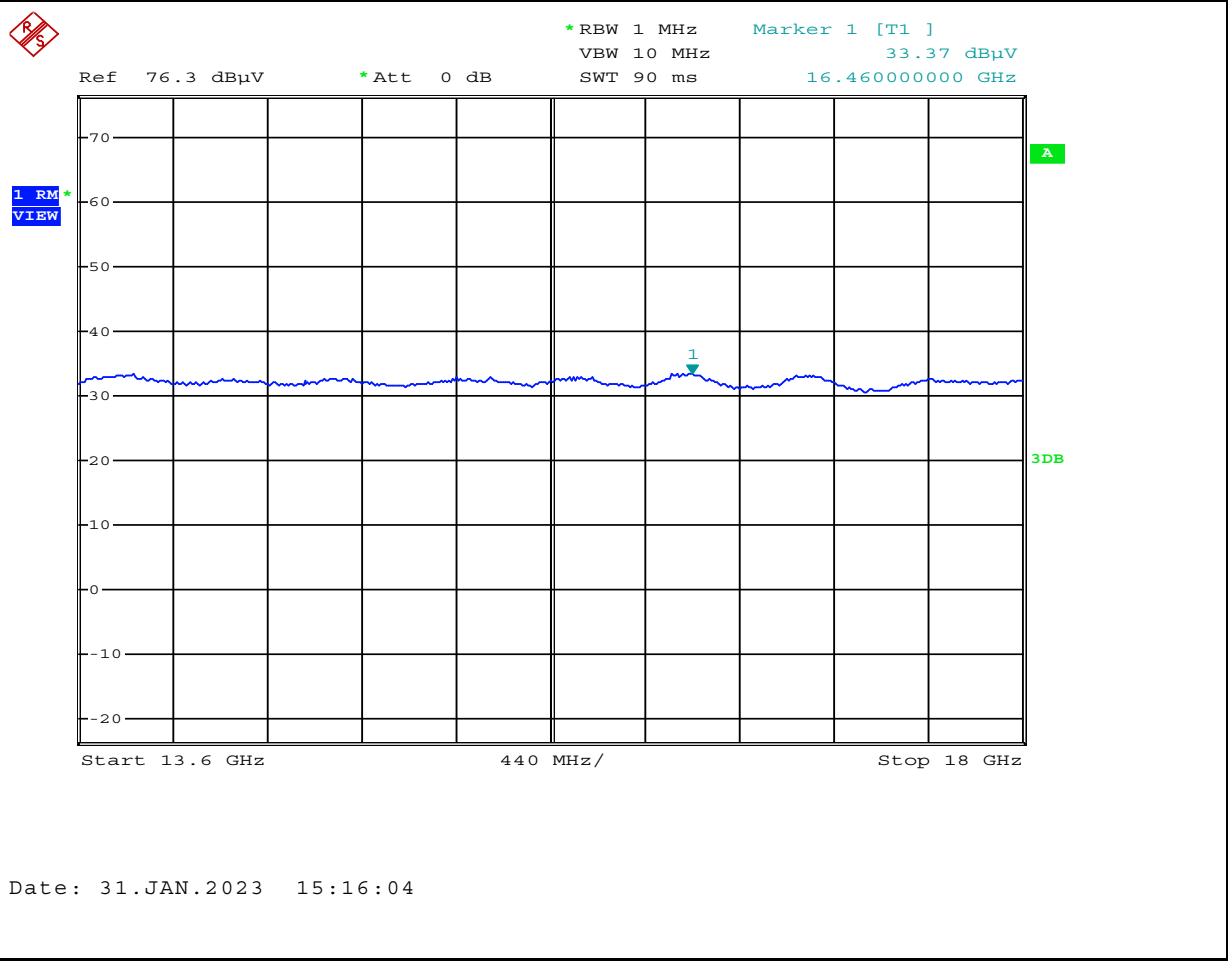
Polarization:

Channel Frequency:  MHz

Modulation:

Measured Emission:  dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

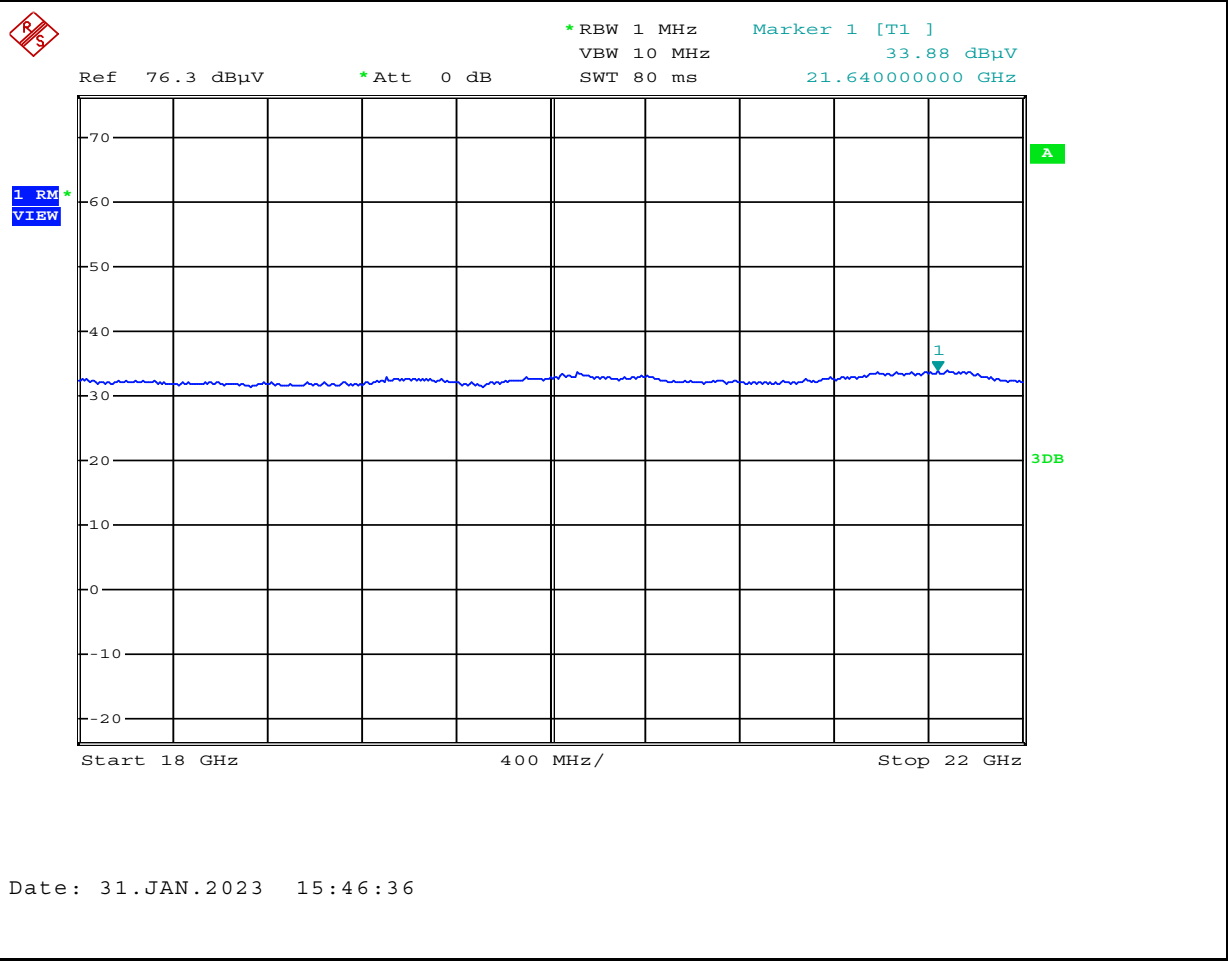
Polarization: Vertical

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

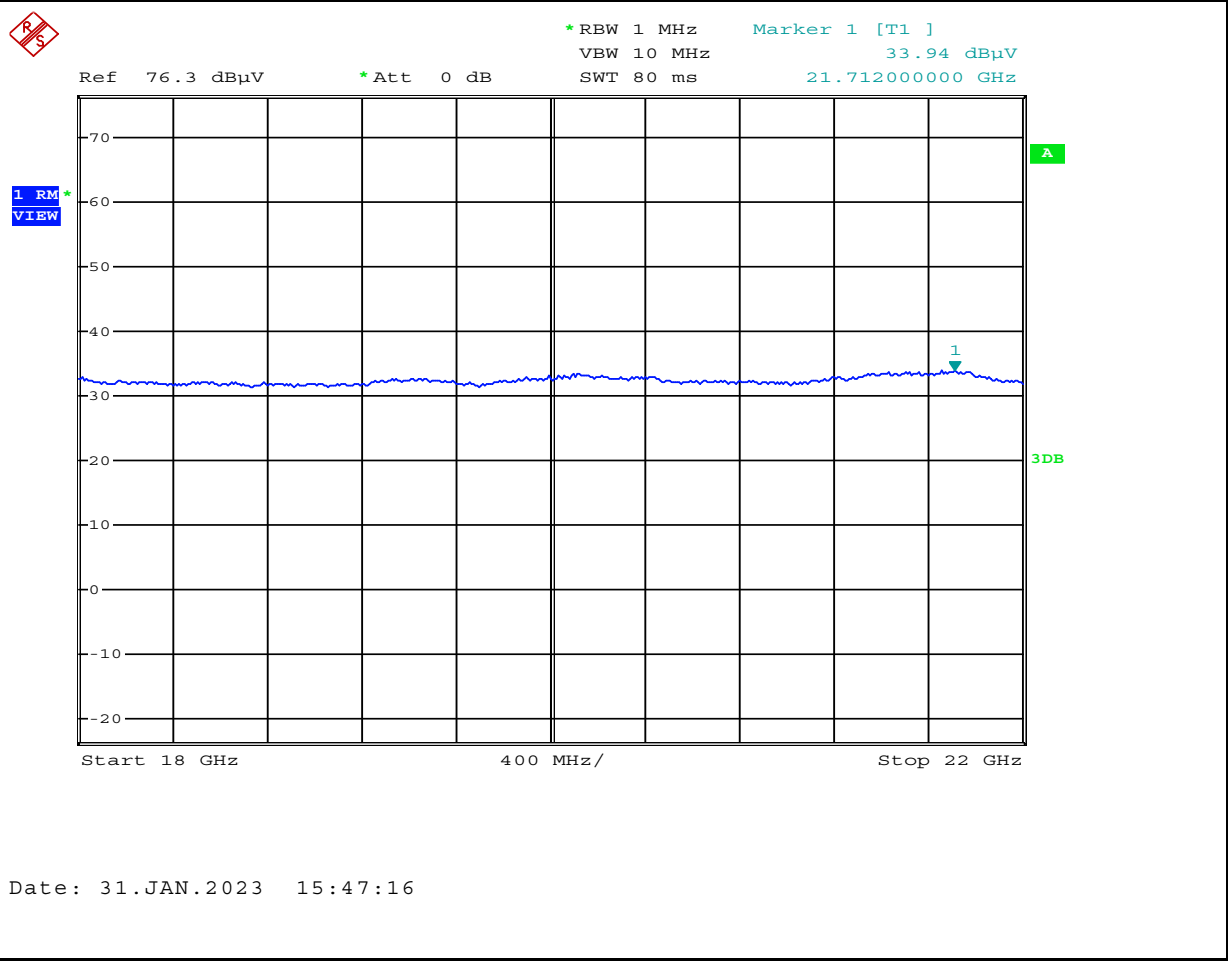
Polarization: Horizontal

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

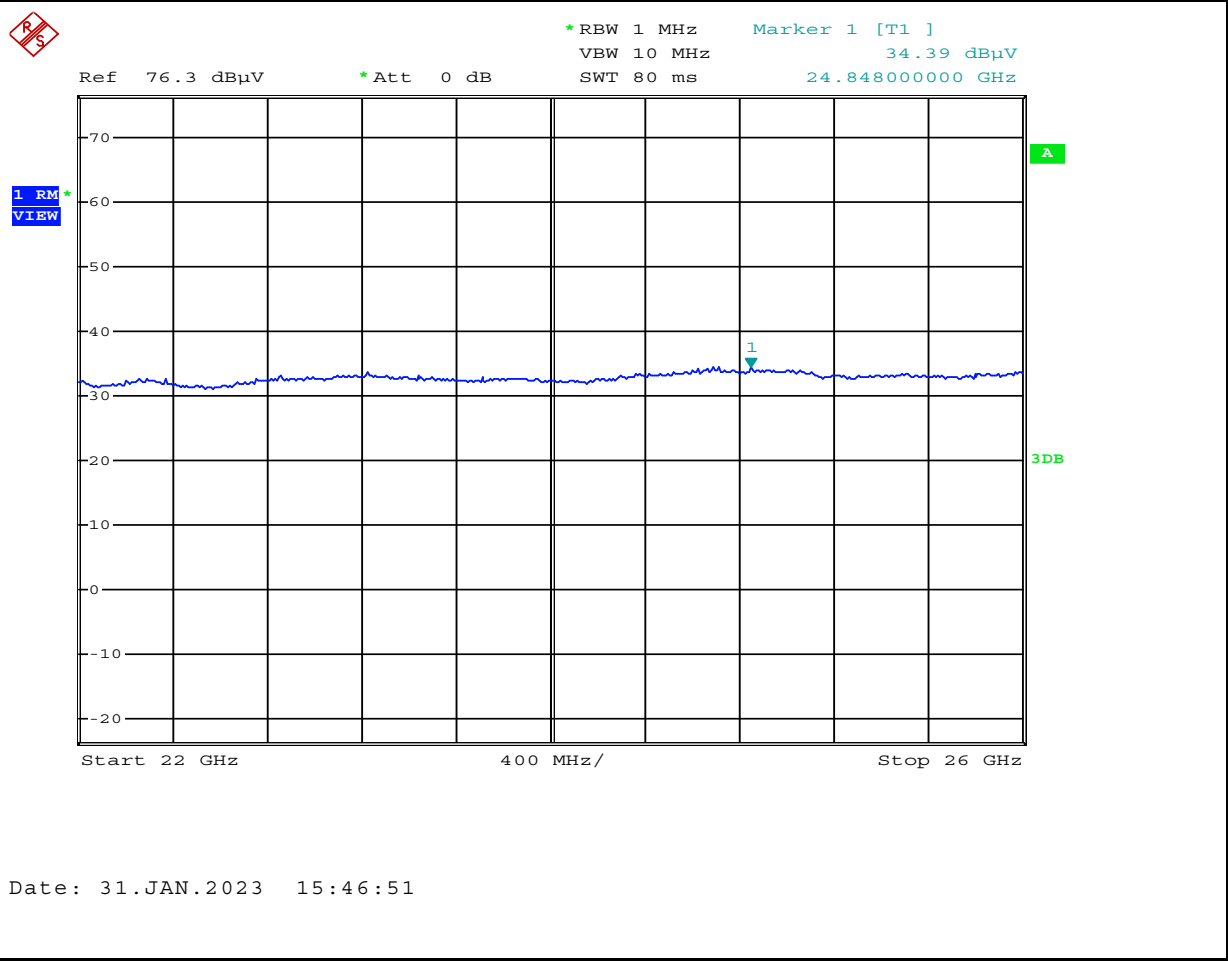
Polarization: Vertical

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

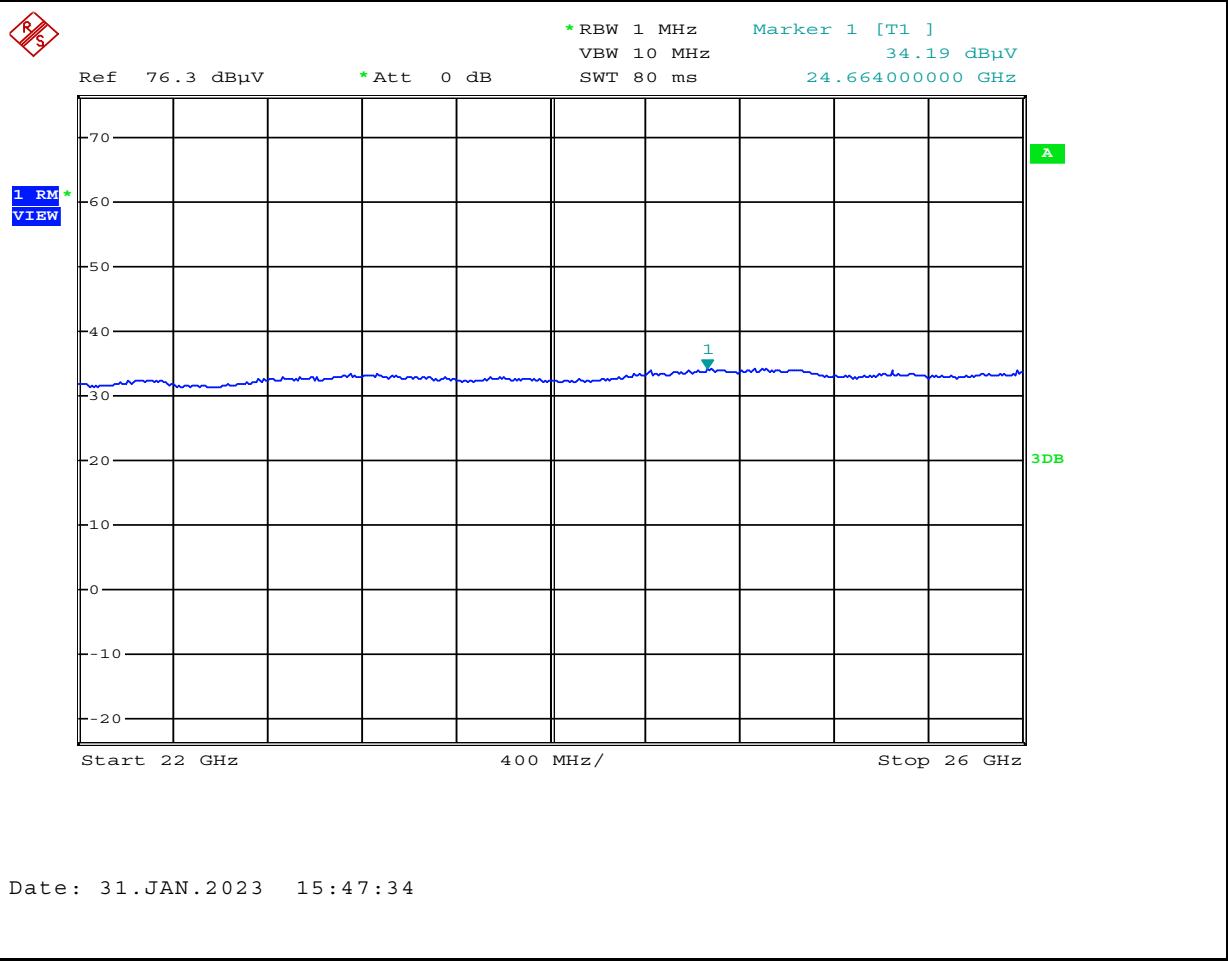
Polarization: Horizontal

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

Polarization: Vertical

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm