

## 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           | 31.9                     | 8.46                                          | 22.91                  | 0.68                              | 0.00 (3)                              | 32.1 (2)                                         | 40.0         | 7.9         |
| 30-1000MHz                     | 2412.0            | Horizontal           | 54.6                     | 8.21                                          | 11.39                  | 0.79                              | 0.00 (3)                              | 20.4 (2)                                         | 40.0         | 19.6        |
| 30-1000MHz                     | 2412.0            | Horizontal           | 57.0                     | 8.04                                          | 10.90                  | 0.80                              | 0.00 (3)                              | 19.7 (2)                                         | 40.0         | 20.3        |
| 30-1000MHz                     | 2412.0            | Horizontal           | 158.8                    | 9.50                                          | 15.50                  | 1.20                              | 0.00 (3)                              | 26.2 (2)                                         | 43.5         | 17.3        |
| 30-1000MHz                     | 2412.0            | Horizontal           | 925.1                    | 9.11                                          | 29.91                  | 2.98                              | 0.00 (3)                              | 42.0 (2)                                         | 46.0         | 4.0         |
| 30-1000MHz                     | 2412.0            | Horizontal           | 926.5                    | 9.19                                          | 30.00                  | 2.98                              | 0.00 (3)                              | 42.2 (2)                                         | 46.0         | 3.9         |
| 30-1000MHz                     | 2412.0            | Vertical             | 729.1                    | 8.51                                          | 28.30                  | 2.66                              | 0.00 (3)                              | 39.5 (2)                                         | 46.0         | 6.6         |
| 30-1000MHz                     | 2412.0            | Vertical             | 904.8                    | 9.36                                          | 29.30                  | 2.93                              | 0.00 (3)                              | 41.6 (2)                                         | 46.0         | 4.4         |
| 30-1000MHz                     | 2412.0            | Vertical             | 906.9                    | 8.91                                          | 29.39                  | 2.94                              | 0.00 (3)                              | 41.2 (2)                                         | 46.0         | 4.8         |
| 30-1000MHz                     | 2412.0            | Vertical             | 908.3                    | 8.80                                          | 29.50                  | 2.94                              | 0.00 (3)                              | 41.2 (2)                                         | 46.0         | 4.8         |
| 30-1000MHz                     | 2412.0            | Vertical             | 909.0                    | 8.84                                          | 29.50                  | 2.94                              | 0.00 (3)                              | 41.3 (2)                                         | 46.0         | 4.7         |
| 30-1000MHz                     | 2412.0            | Vertical             | 909.7                    | 8.84                                          | 29.50                  | 2.94                              | 0.00 (3)                              | 41.3 (2)                                         | 46.0         | 4.7         |
| 30-1000MHz                     | 2412.0            | Vertical             | 910.4                    | 8.84                                          | 29.46                  | 2.95                              | 0.00 (3)                              | 41.2 (2)                                         | 46.0         | 4.8         |
| 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     |             |

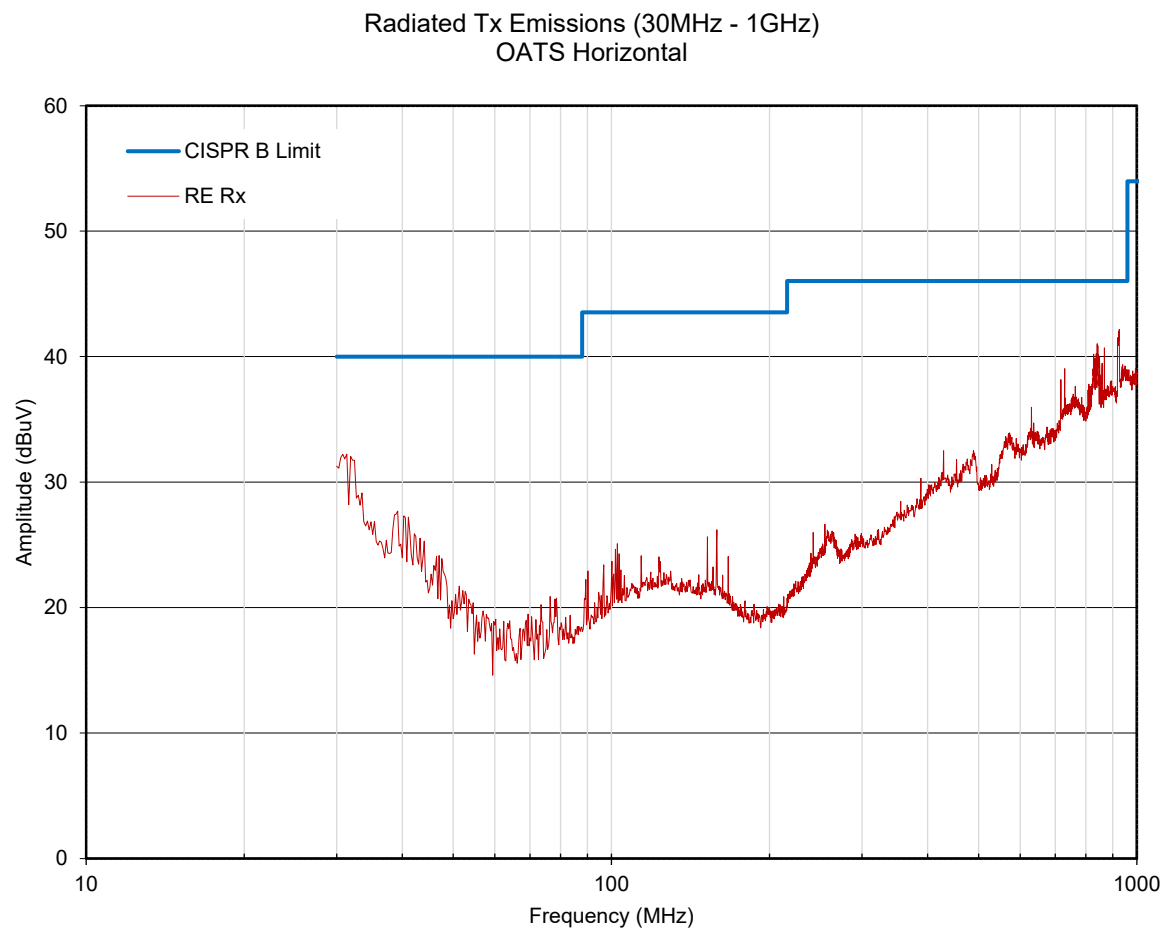
(1) No Emissions Detected (ND) above ambient or within 20dB of the limit

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

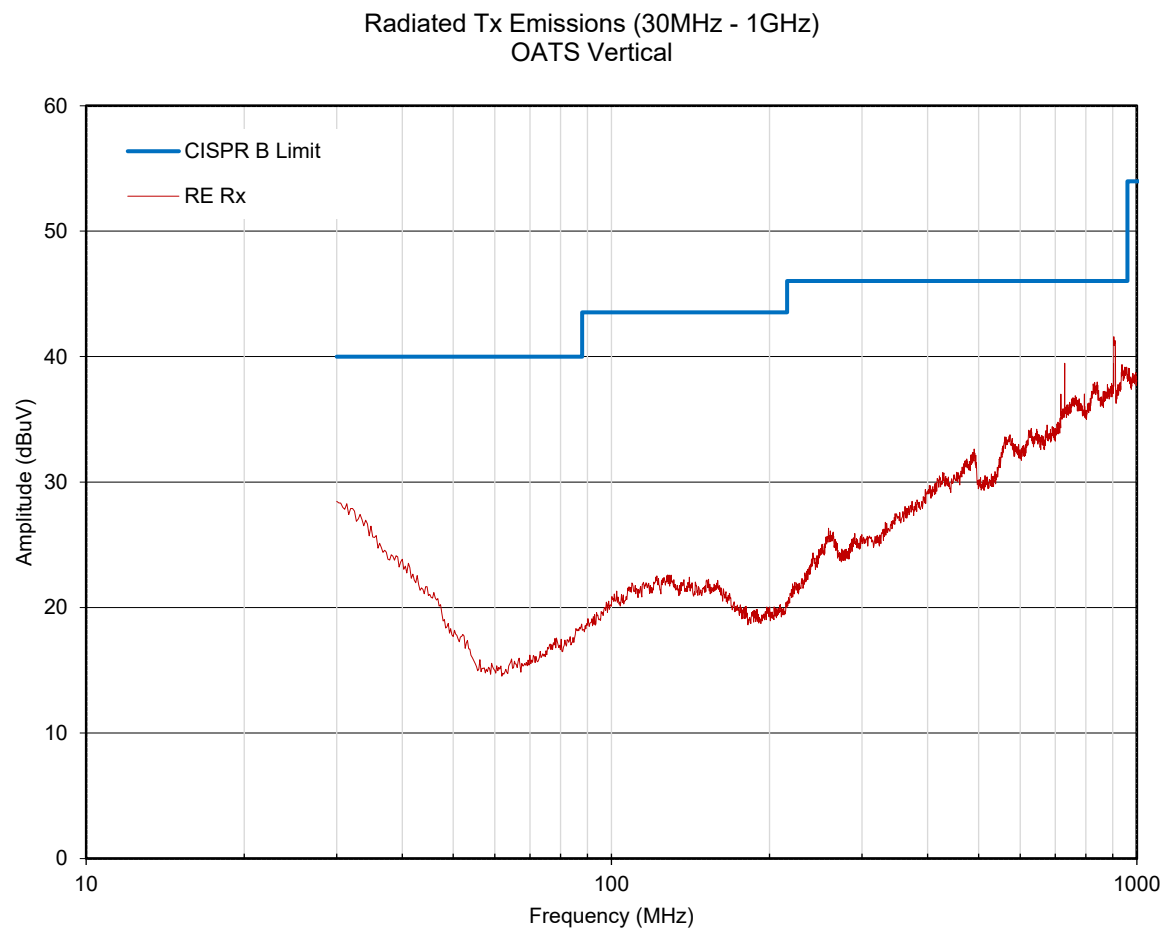
(3) External Amplifier not used

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

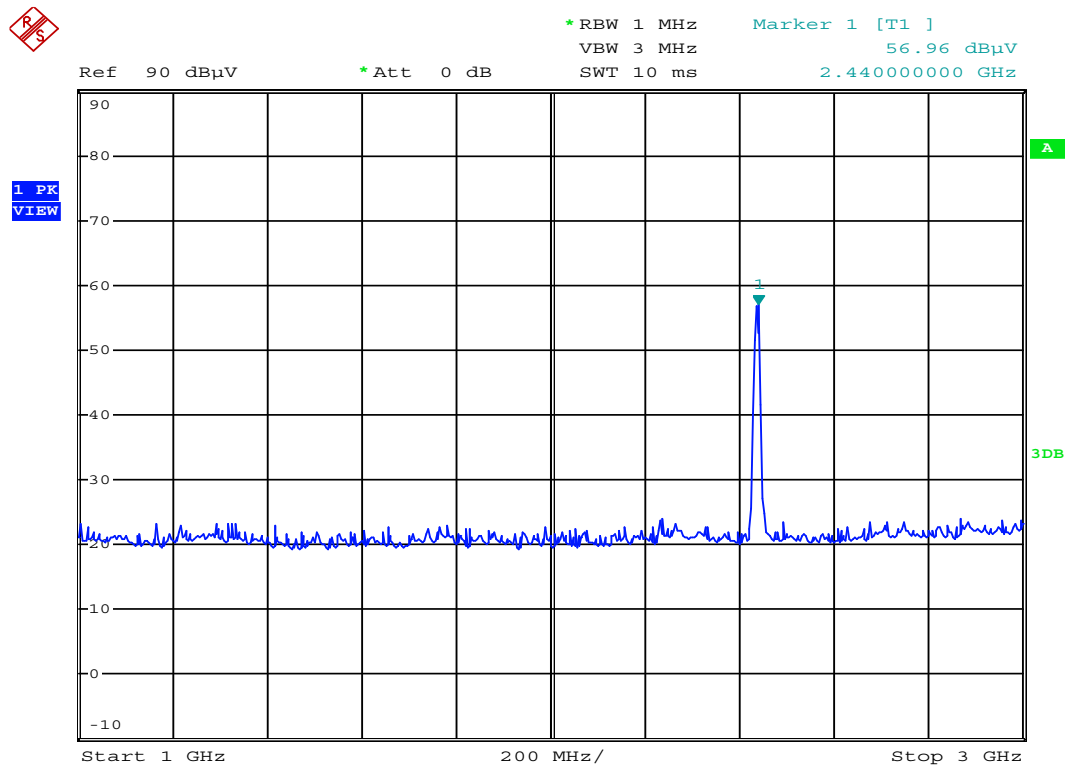
## Radiated Tx Emissions:



**Radiated Tx Emissions:**



## Radiated Tx Emissions:



Date: 31.JAN.2023 17:52:44

Channel: 6

Mode: 802.11b

Polarization: Horizontal

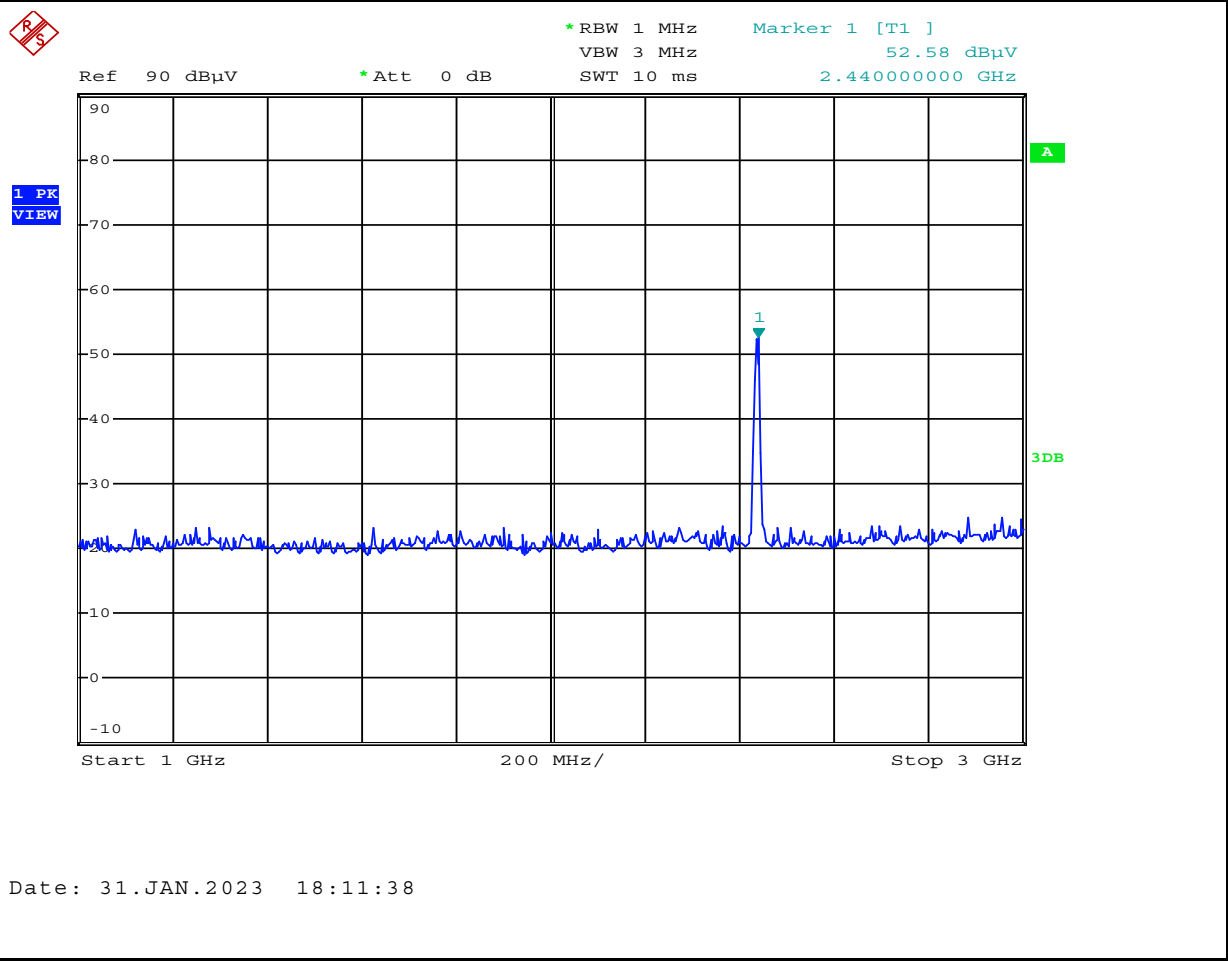
Marker 1 = Fundamental

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

**Radiated Tx Emissions:**



Channel:

Mode:

Polarization:

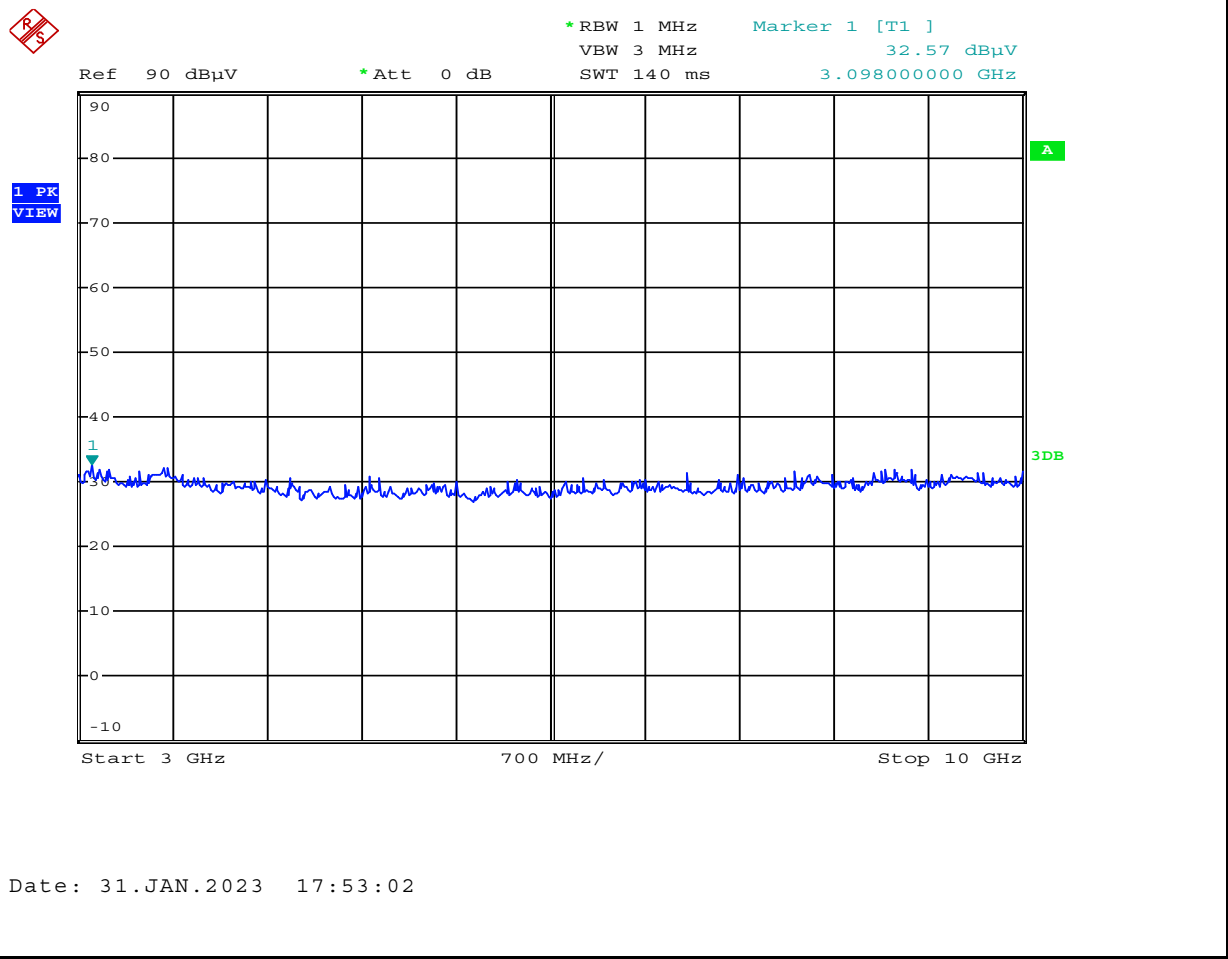
Marker 1 = Fundamental

Channel Frequency:  MHz

Modulation:

Measured Emission:  dBm

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

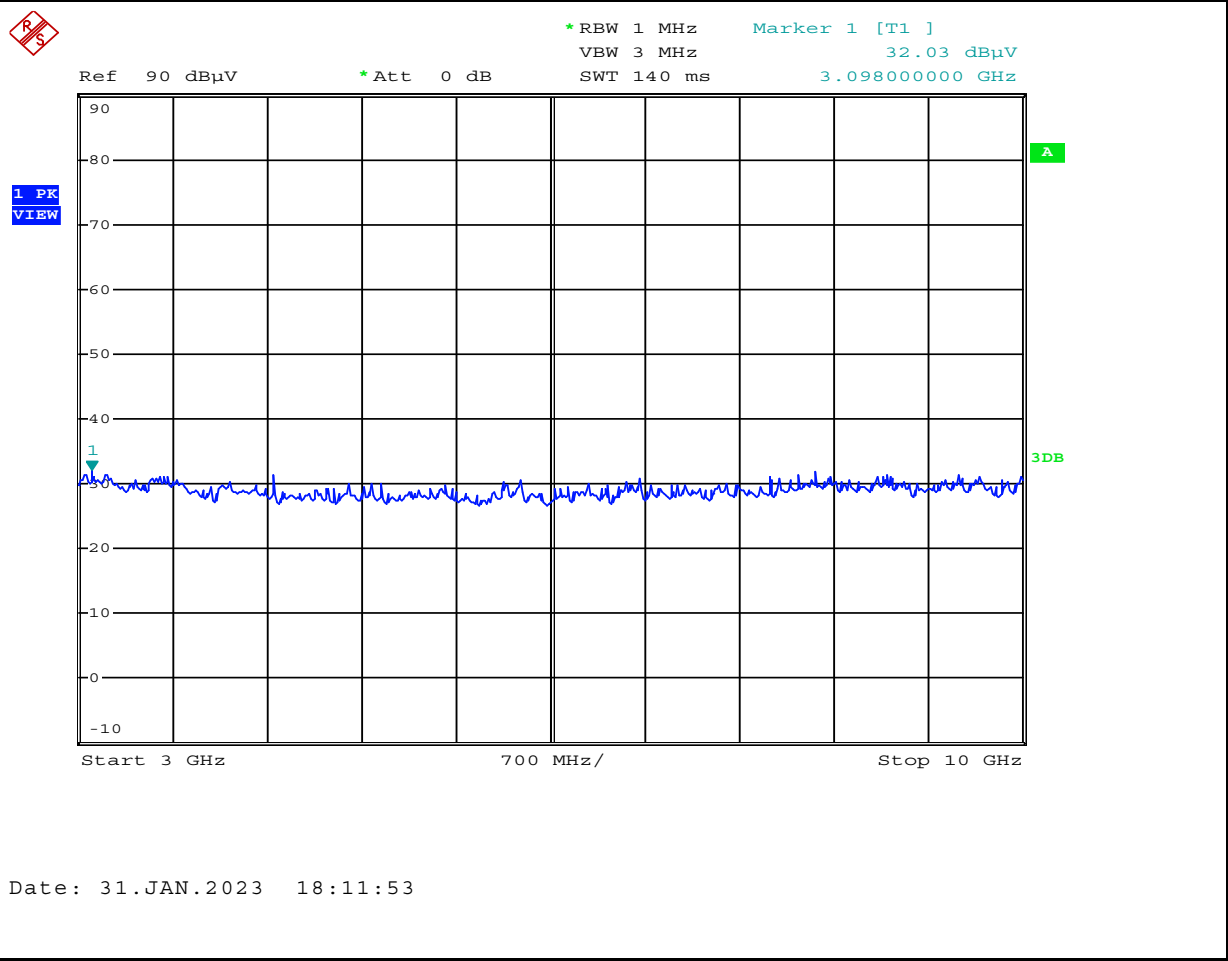


Date: 31.JAN.2023 17:53:02

|               |            |
|---------------|------------|
| 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

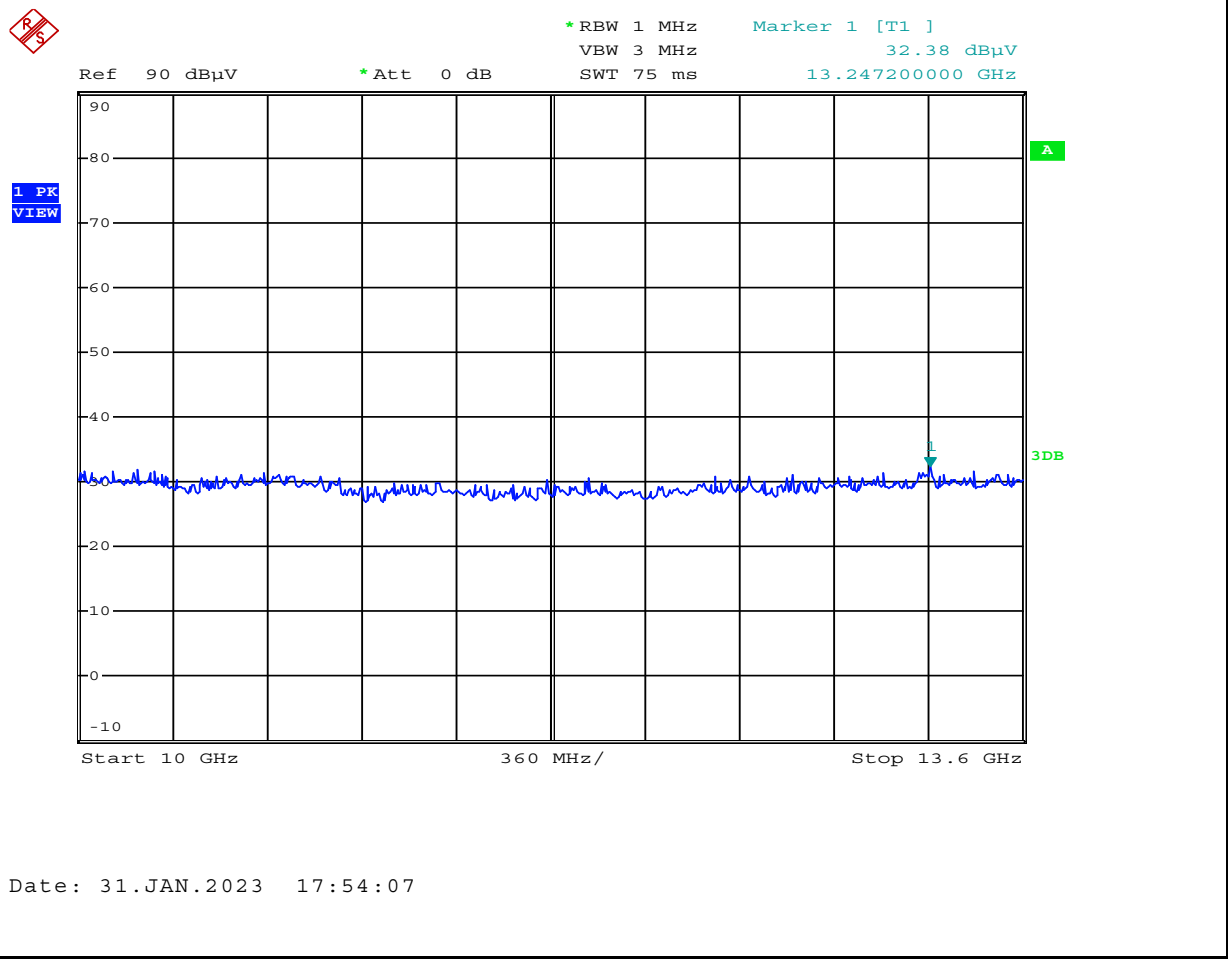
Polarization: Vertical

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

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

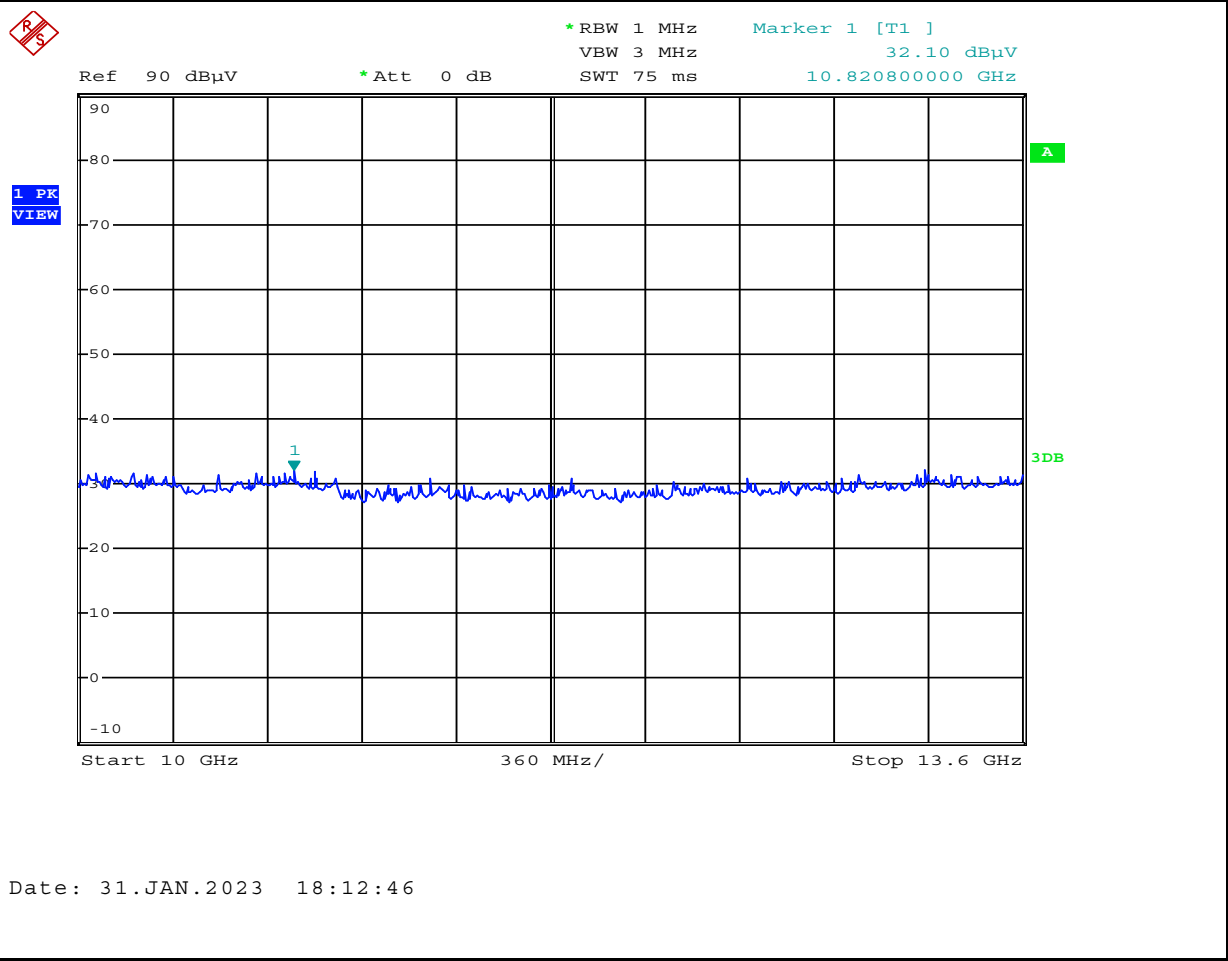


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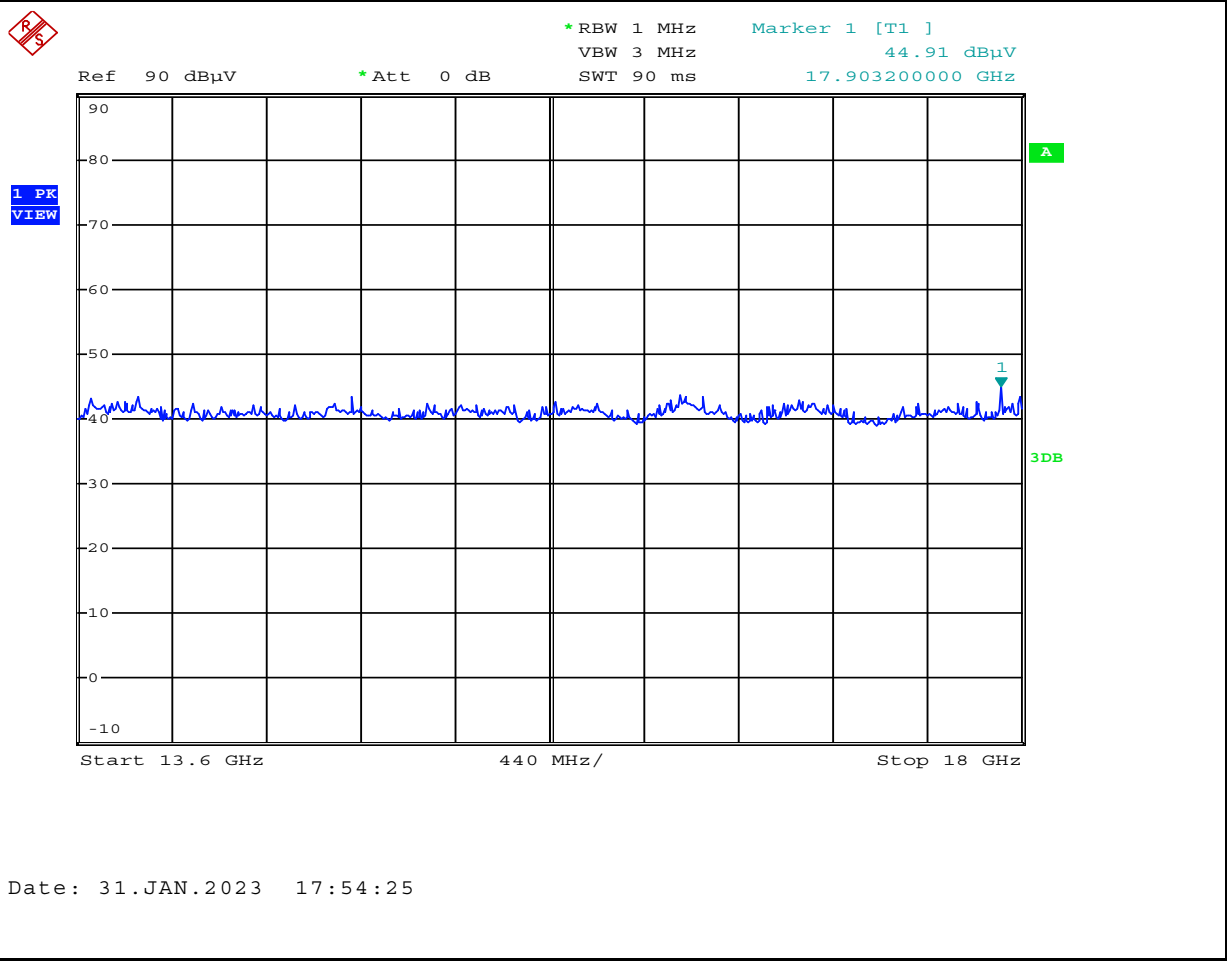
|               |            |
|---------------|------------|
| Channel:      | 6          |
| Mode:         | 802.11b    |
| Polarization: | Horizontal |

|                    |         |     |
|--------------------|---------|-----|
| Channel Frequency: | 2437    | MHz |
| Modulation:        | CCK 1MB |     |
| Measured Emission: | ND      | dBm |

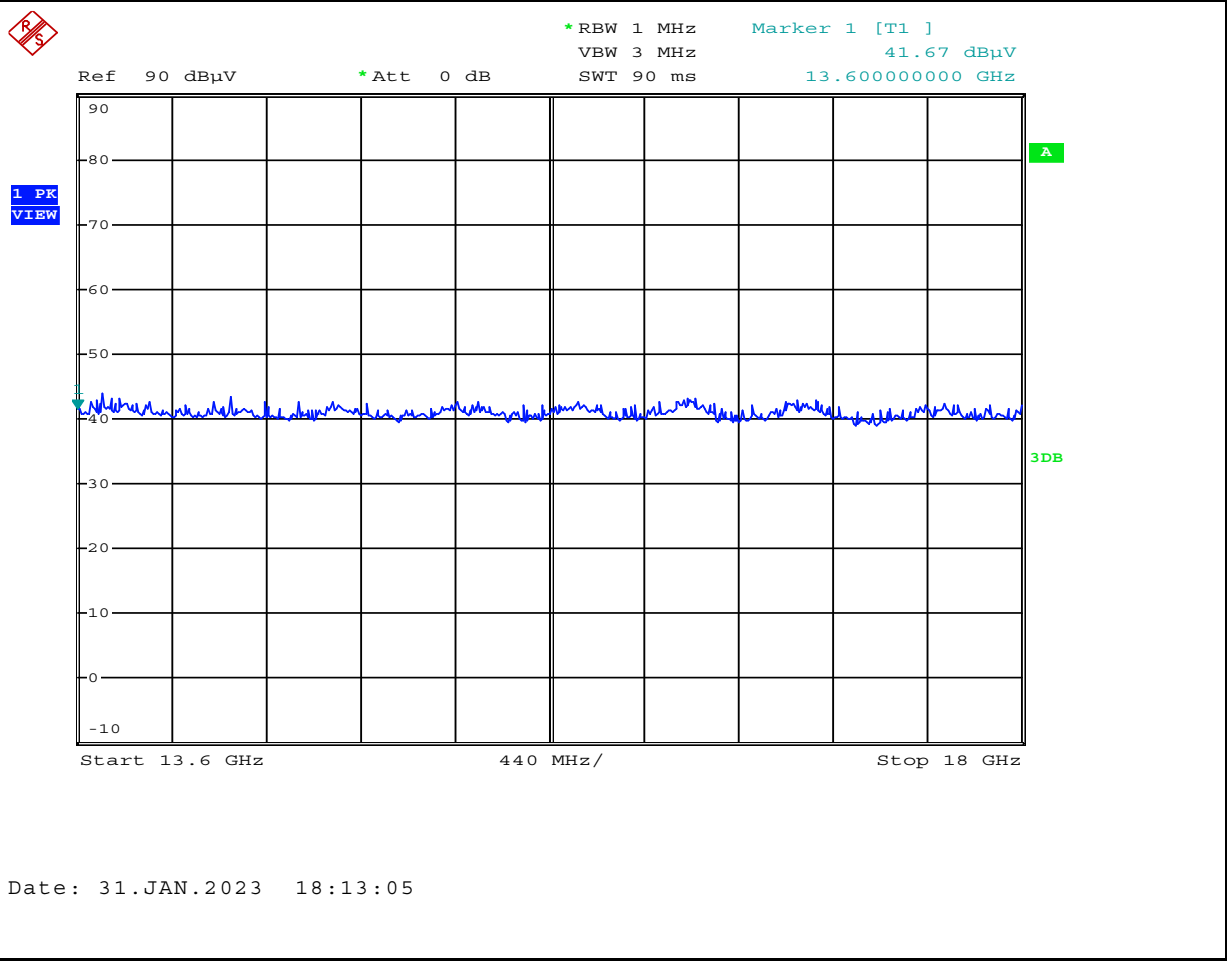
Radiated Tx Emissions:



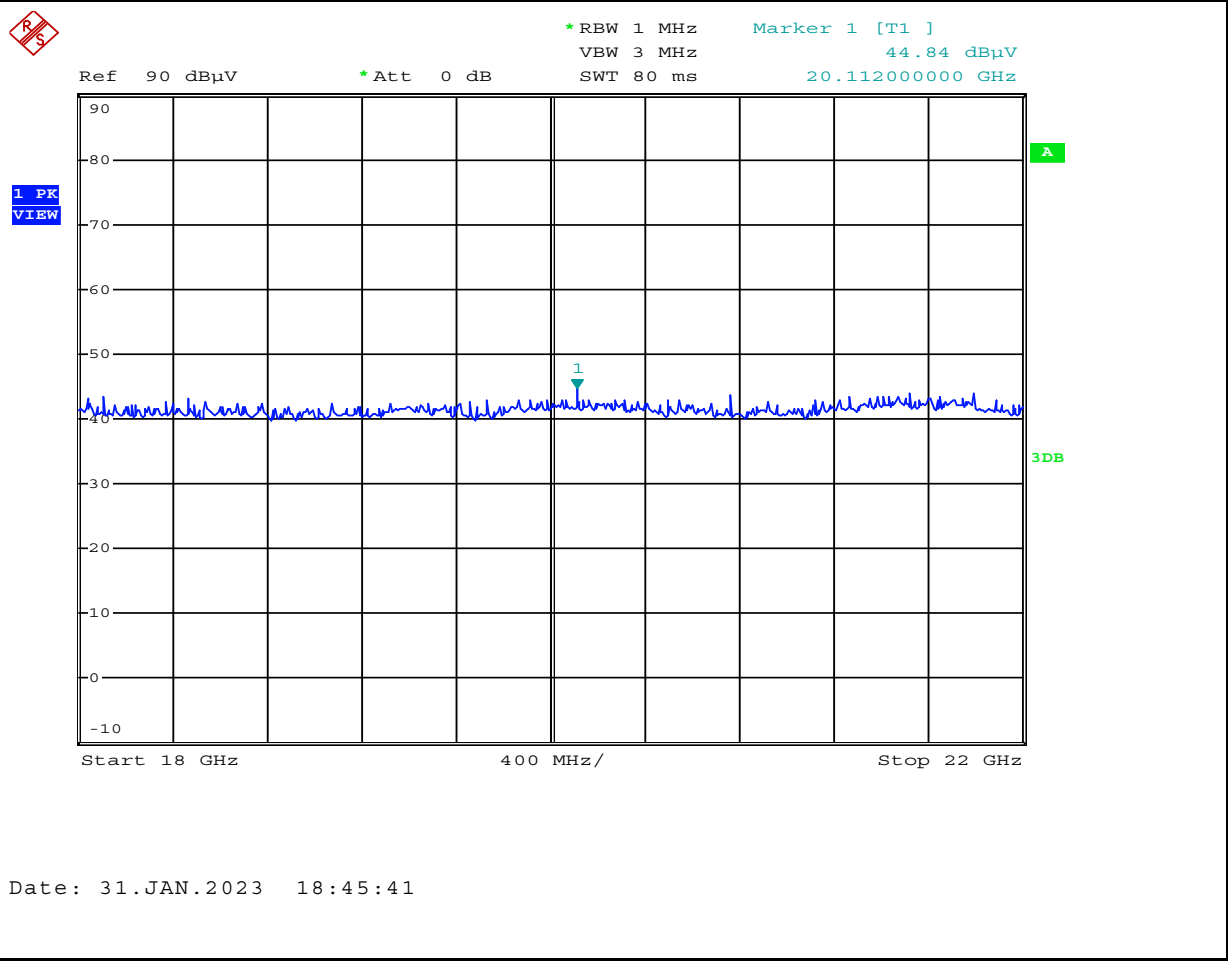
Radiated Tx Emissions:



Radiated Tx Emissions:



Radiated Tx Emissions:



Channel: 6

Mode: 802.11b

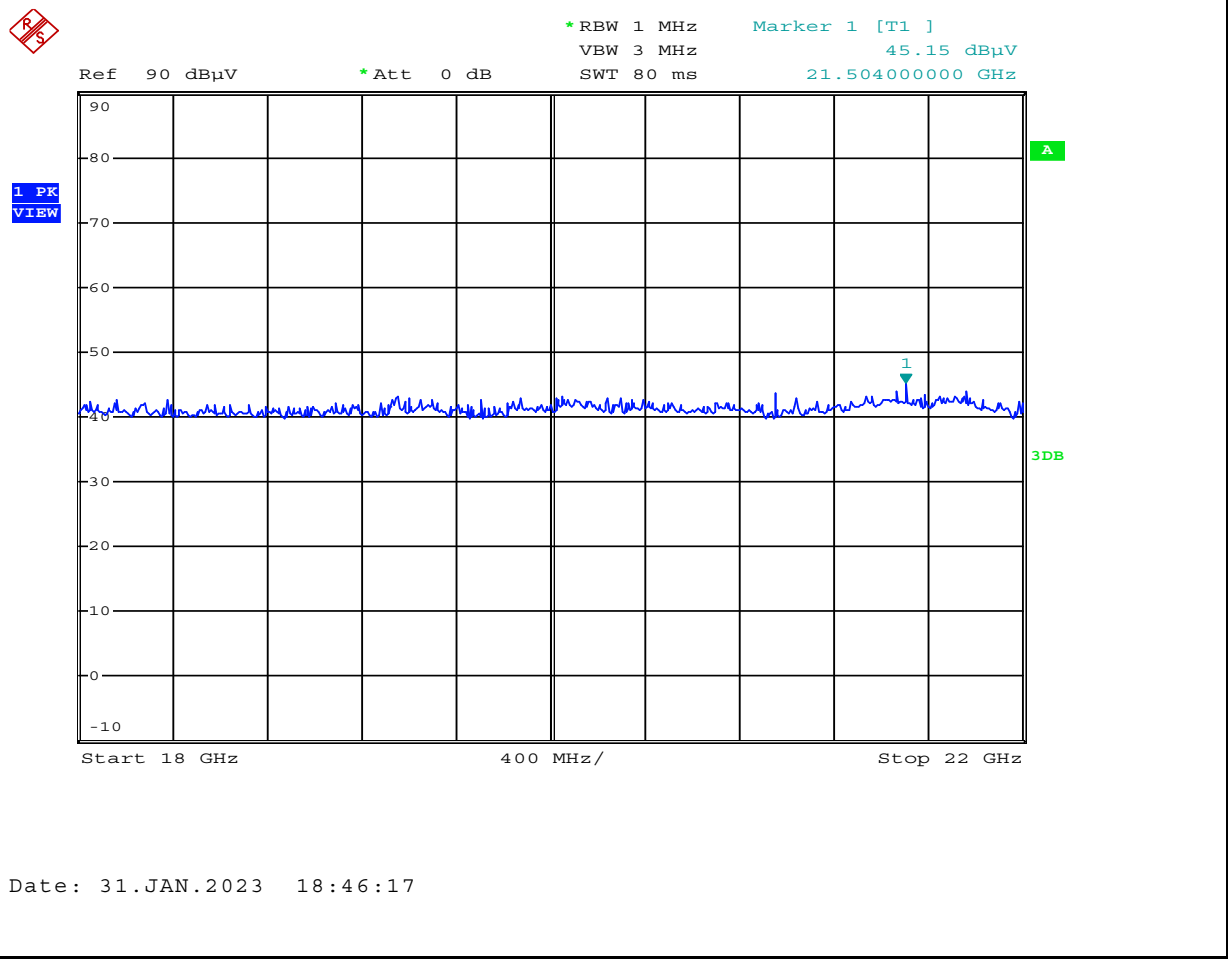
Polarization: Horizontal

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: ND dBm

|                               |
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| <b>Radiated Tx Emissions:</b> |
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Date: 31.JAN.2023 18:46:17

Channel: 6

Mode: 802.11b

Polarization: 

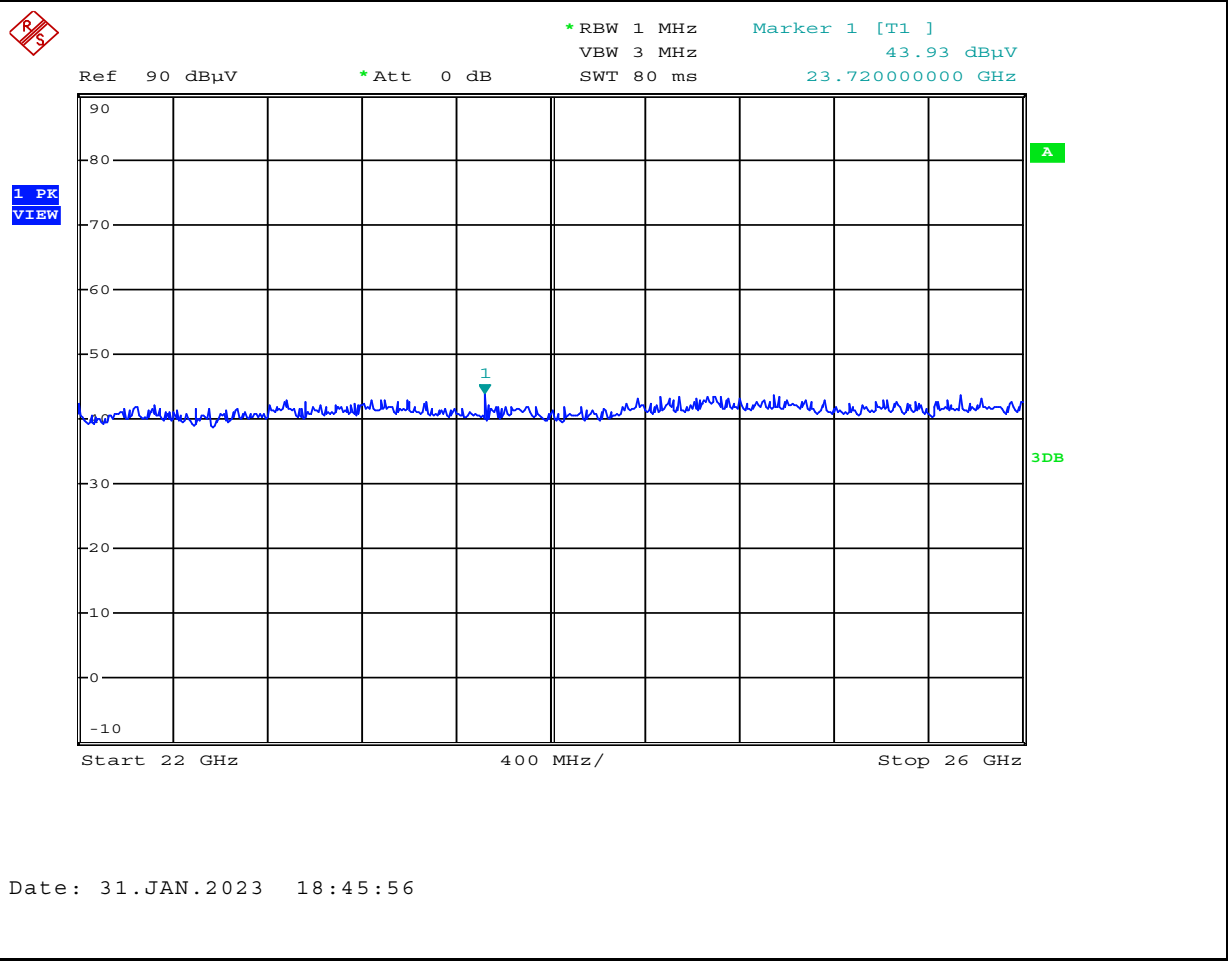
|          |
|----------|
| Vertical |
|----------|

Channel Frequency: 2437 MHz

Modulation: CCK 1MB

Measured Emission: **ND** dBm

Radiated Tx Emissions:



Channel: 6

Mode: 802.11b

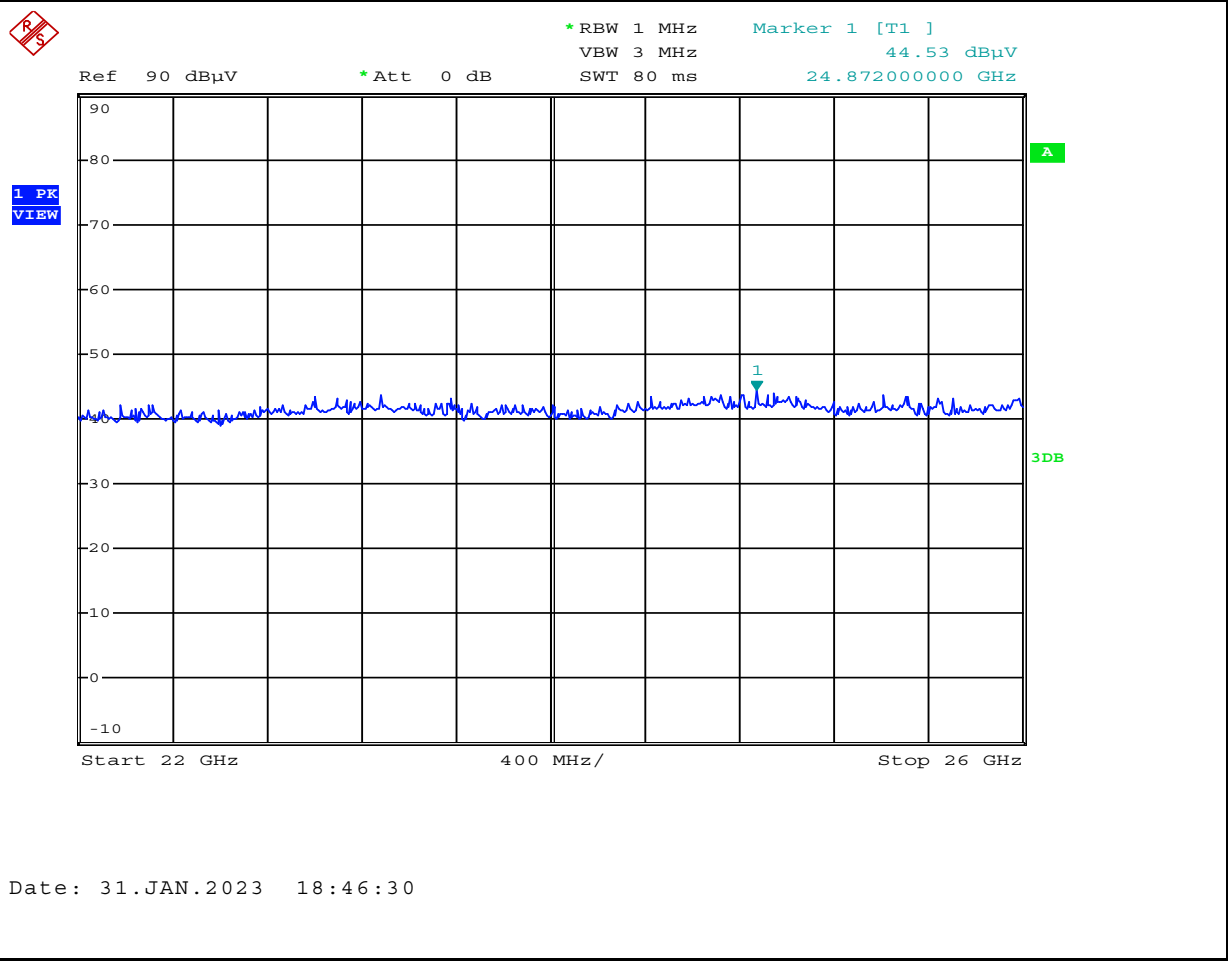
Polarization: Horizontal

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 | 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           | 32.43              | 8.13                                          | 22.64                  | 0.68                              | 0.00 (3)                              | 31.5 (2)                                         | 40.0         | 8.5         |
| 30-1000MHz                     | 2440.0            | Horizontal           | 54.57              | 7.74                                          | 11.39                  | 0.79                              | 0.00 (3)                              | 19.9 (2)                                         | 40.0         | 20.1        |
| 30-1000MHz                     | 2440.0            | Horizontal           | 68.07              | 7.32                                          | 11.21                  | 0.85                              | 0.00 (3)                              | 19.4 (2)                                         | 40.0         | 20.6        |
| 30-1000MHz                     | 2440.0            | Horizontal           | 73.47              | 7.67                                          | 11.65                  | 0.87                              | 0.00 (3)                              | 20.2 (2)                                         | 40.0         | 19.8        |
| 30-1000MHz                     | 2440.0            | Horizontal           | 841.10             | 9.04                                          | 29.60                  | 2.84                              | 0.00 (3)                              | 41.5 (2)                                         | 46.0         | 4.5         |
| 30-1000MHz                     | 2440.0            | Horizontal           | 867.70             | 8.41                                          | 29.40                  | 2.88                              | 0.00 (3)                              | 40.7 (2)                                         | 46.0         | 5.3         |
| 30-1000MHz                     | 2440.0            | Horizontal           | 920.90             | 8.60                                          | 29.80                  | 2.97                              | 0.00 (3)                              | 41.4 (2)                                         | 46.0         | 4.7         |
| 30-1000MHz                     | 2440.0            | Horizontal           | 925.10             | 8.62                                          | 29.91                  | 2.98                              | 0.00 (3)                              | 41.5 (2)                                         | 46.0         | 4.5         |
| 30-1000MHz                     | 2440.0            | Vertical             | 729.10             | 8.51                                          | 28.30                  | 2.66                              | 0.00 (3)                              | 39.5 (2)                                         | 46.0         | 6.6         |
| 30-1000MHz                     | 2440.0            | Vertical             | 909.00             | 8.69                                          | 29.50                  | 2.94                              | 0.00 (3)                              | 41.1 (2)                                         | 46.0         | 4.9         |
| 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     |             |

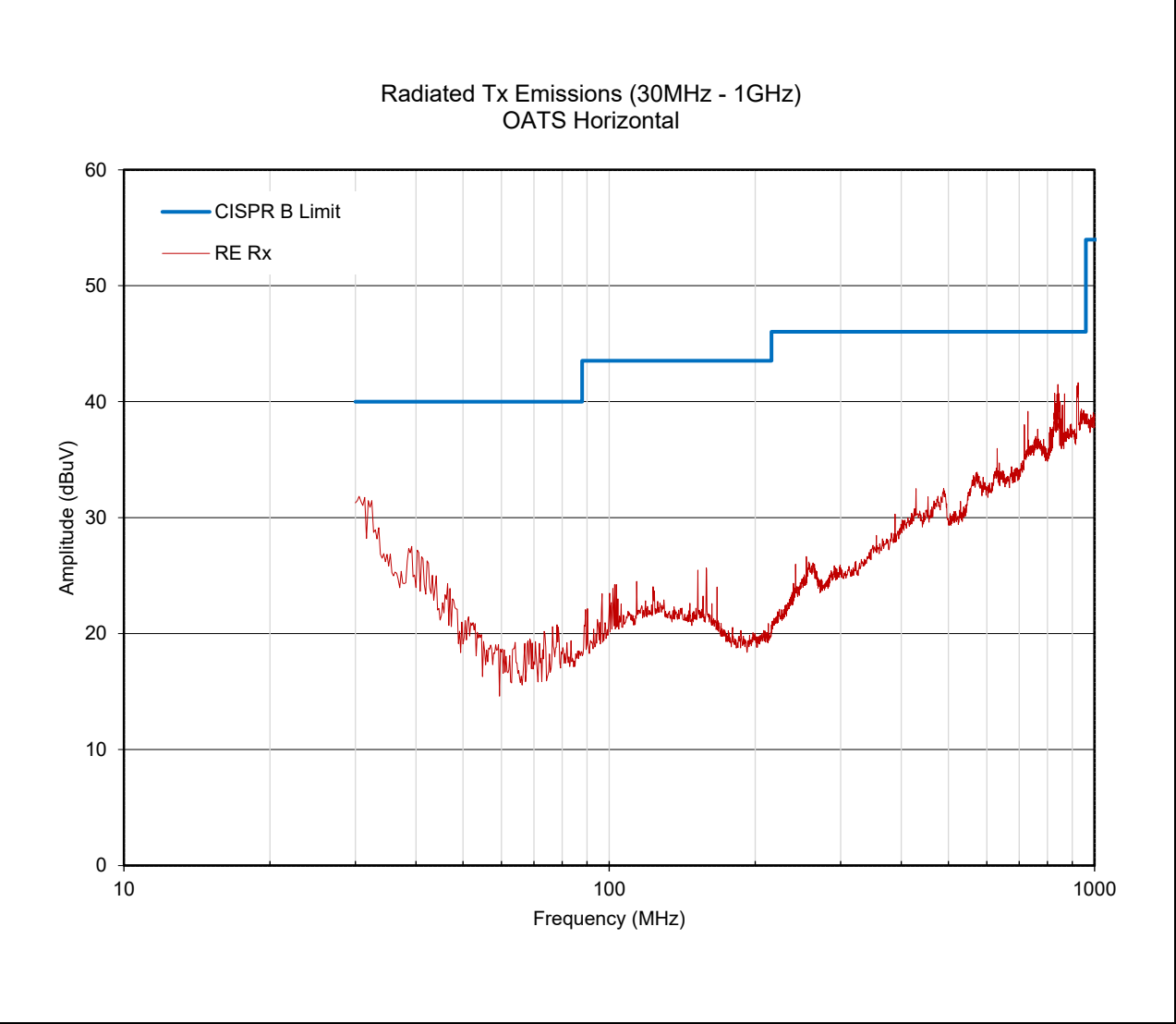
(1) No Emissions Detected (ND) above ambient or within 20dB of the limit

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

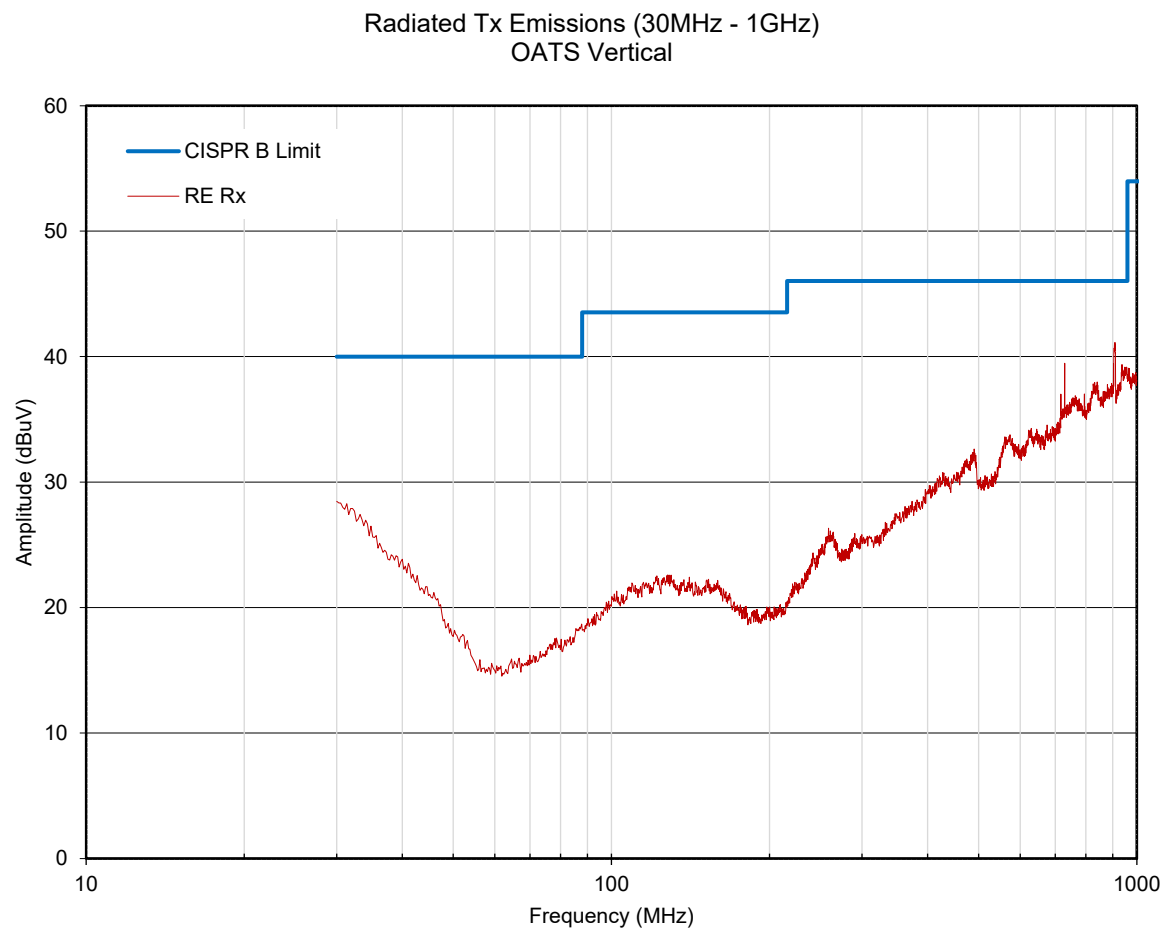
(3) External Amplifier not used

$$E_{\text{Corr}} = E_{\text{Meas}} + \text{ACF} + L_C - G_A$$

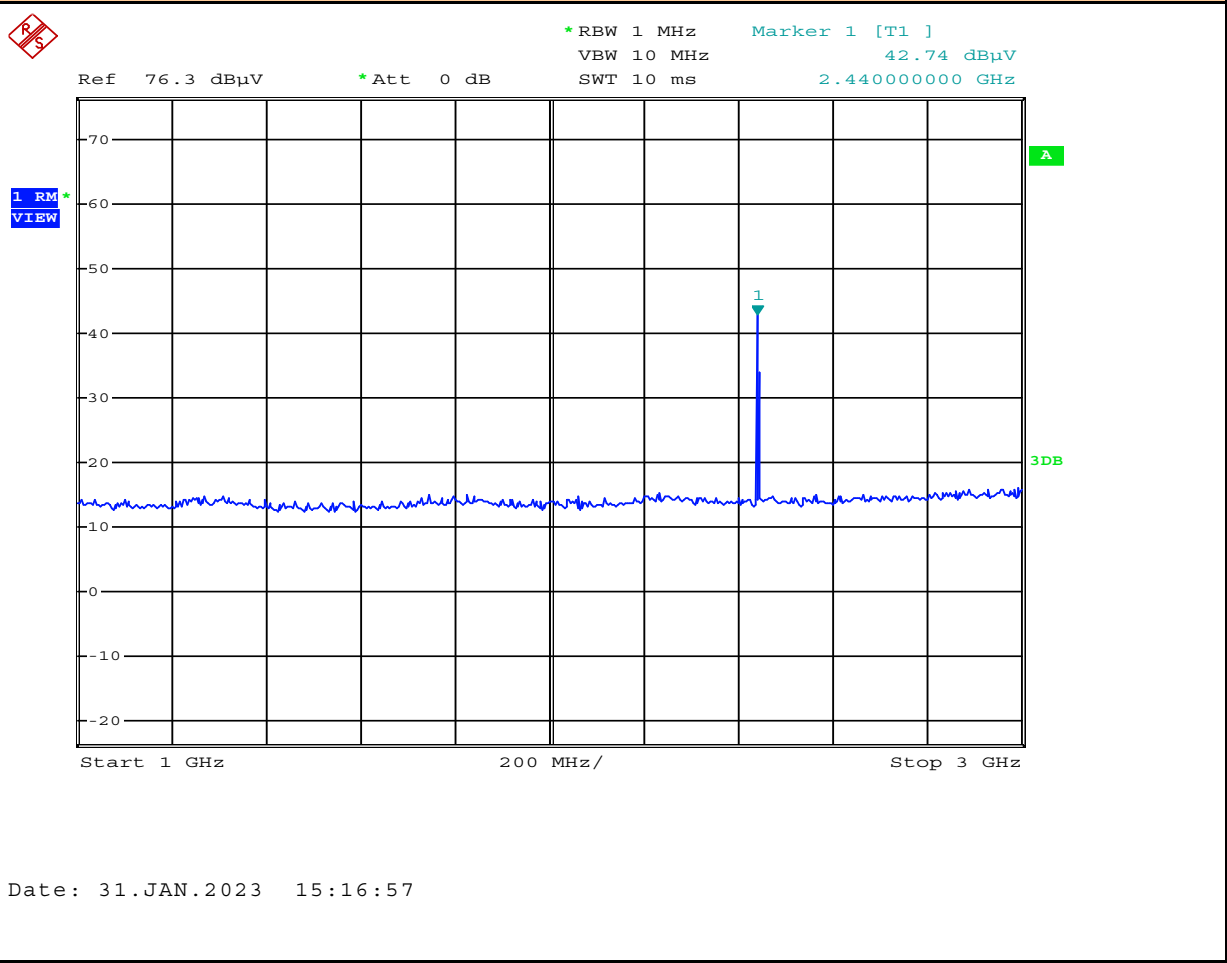
**Radiated Tx Emissions:**



**Radiated Tx Emissions:**



Radiated Tx Emissions:



Channel: 38

Mode: BT BR

Polarization: Horizontal

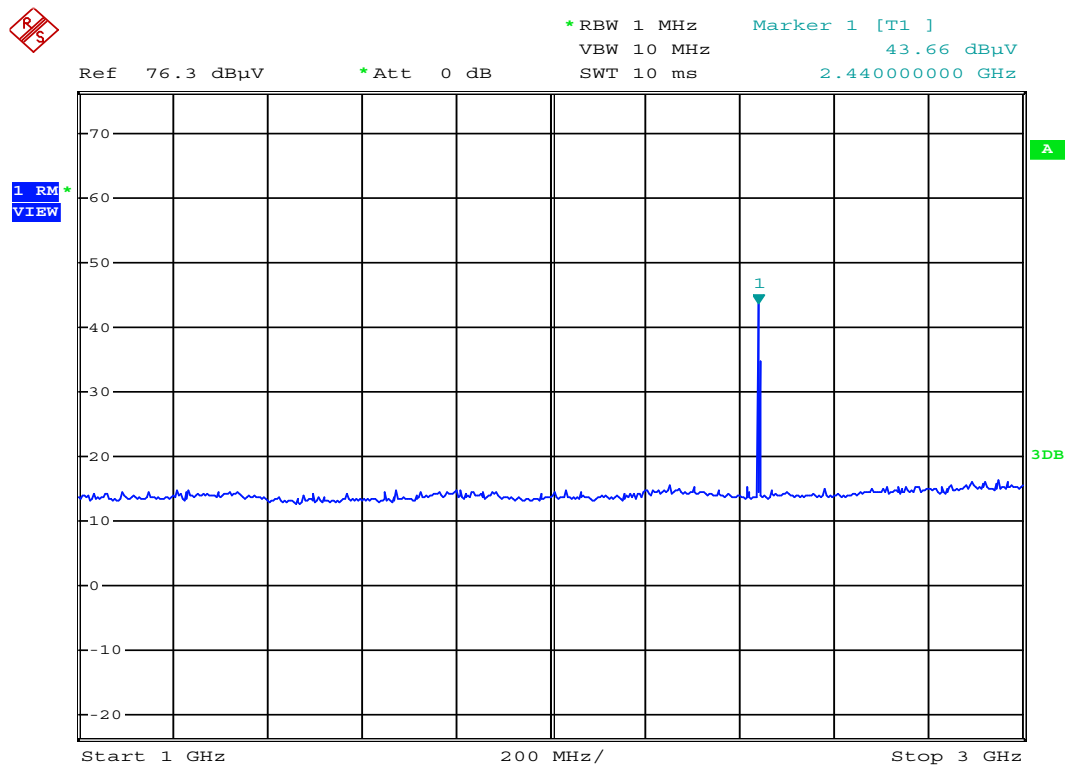
Marker 1 = Fundamental

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

## Radiated Tx Emissions:

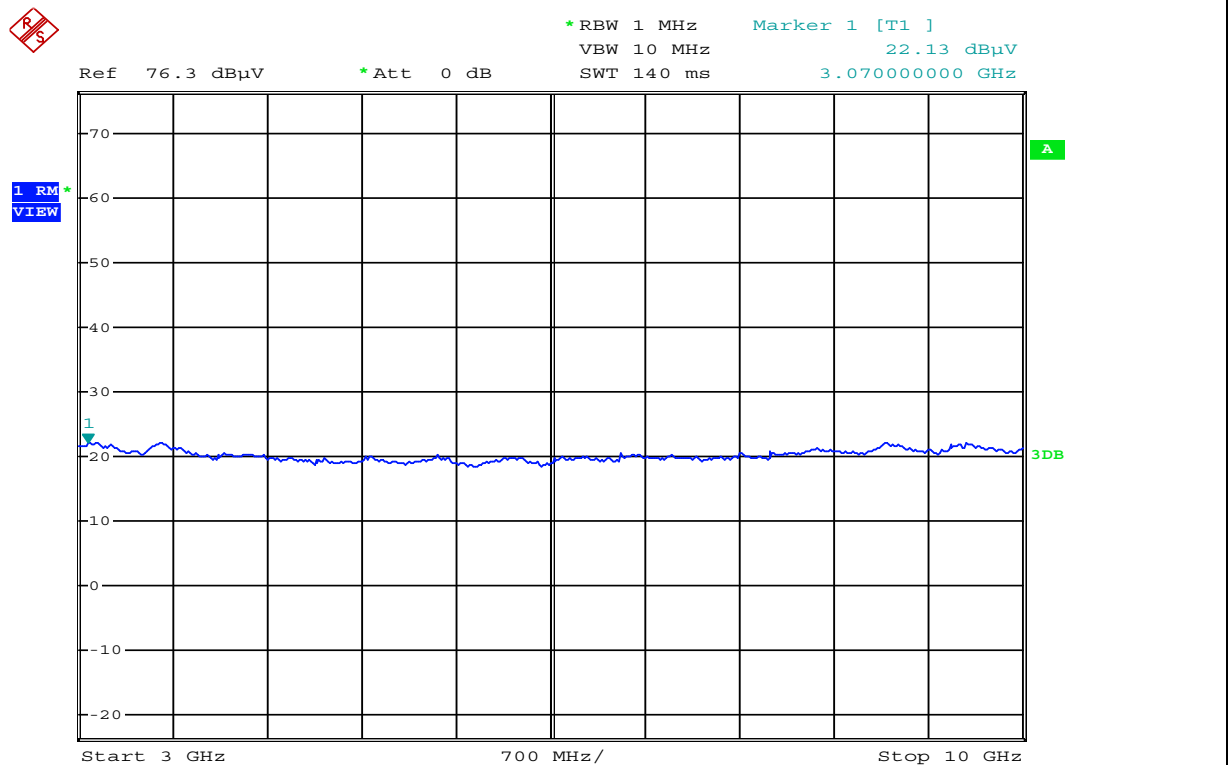


Date: 31.JAN.2023 15:15:04

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> |
|-------------------------------|

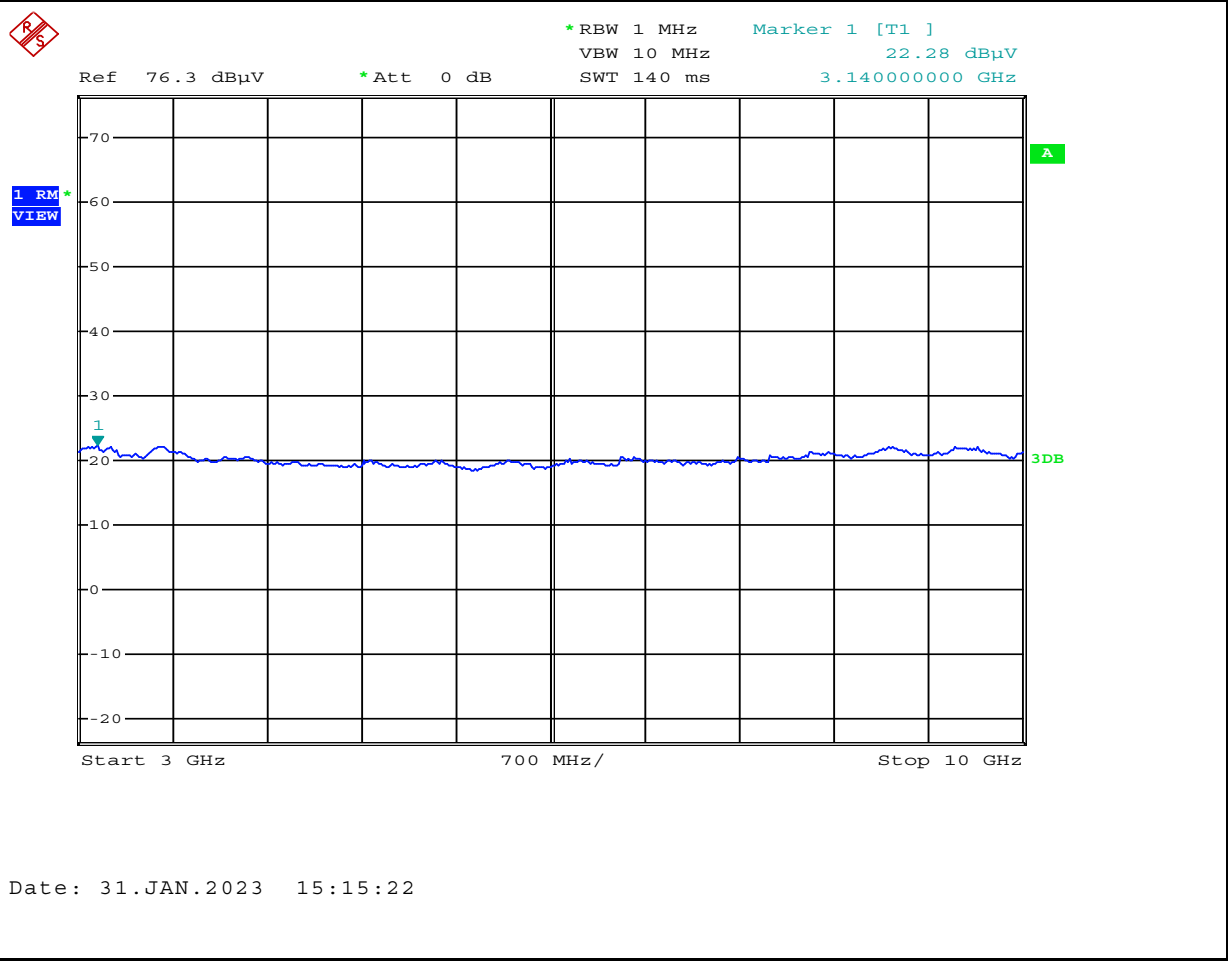


Date: 31.JAN.2023 15:17:30

|               |            |
|---------------|------------|
| 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

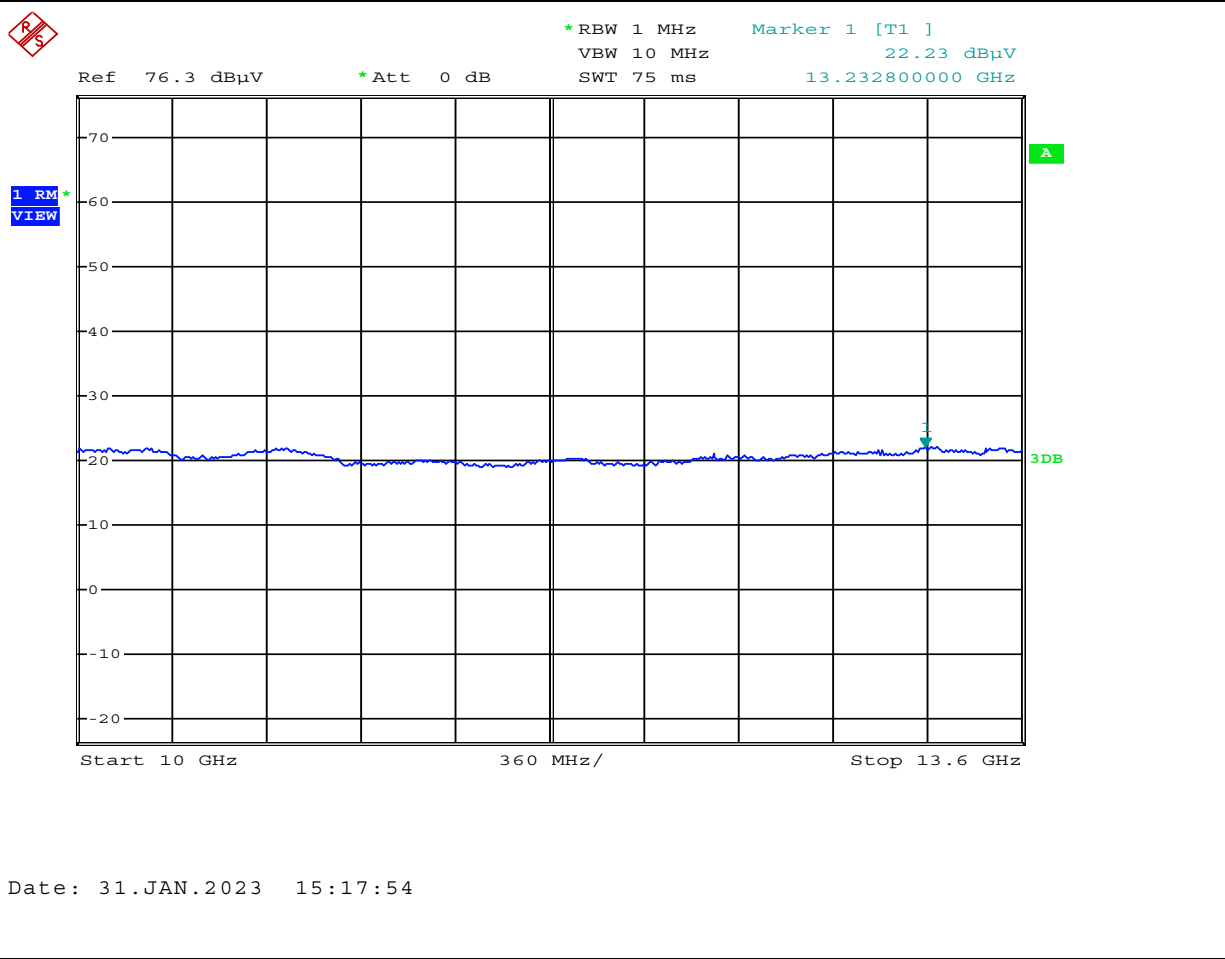
Polarization: Vertical

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

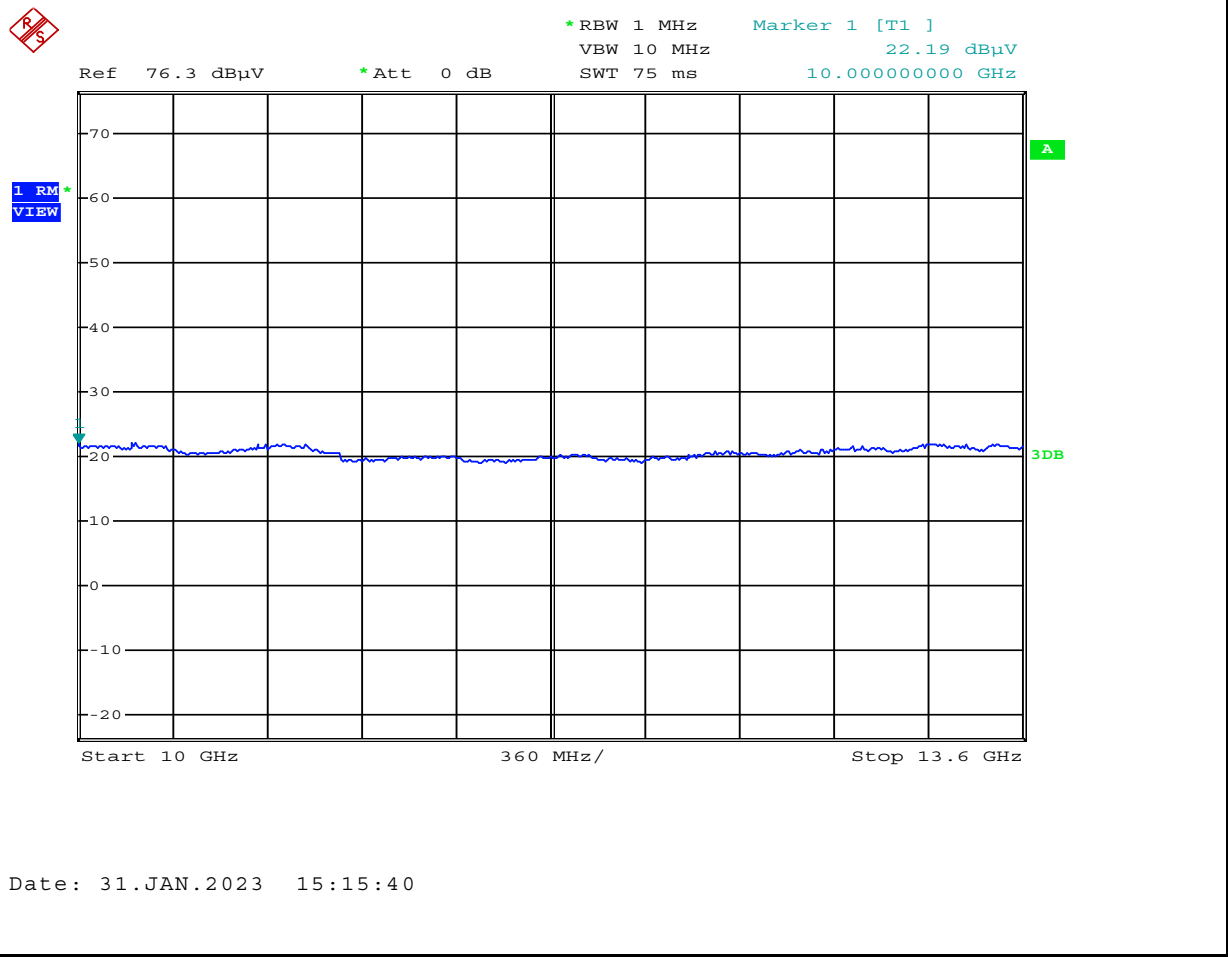
Polarization: Horizontal

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

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

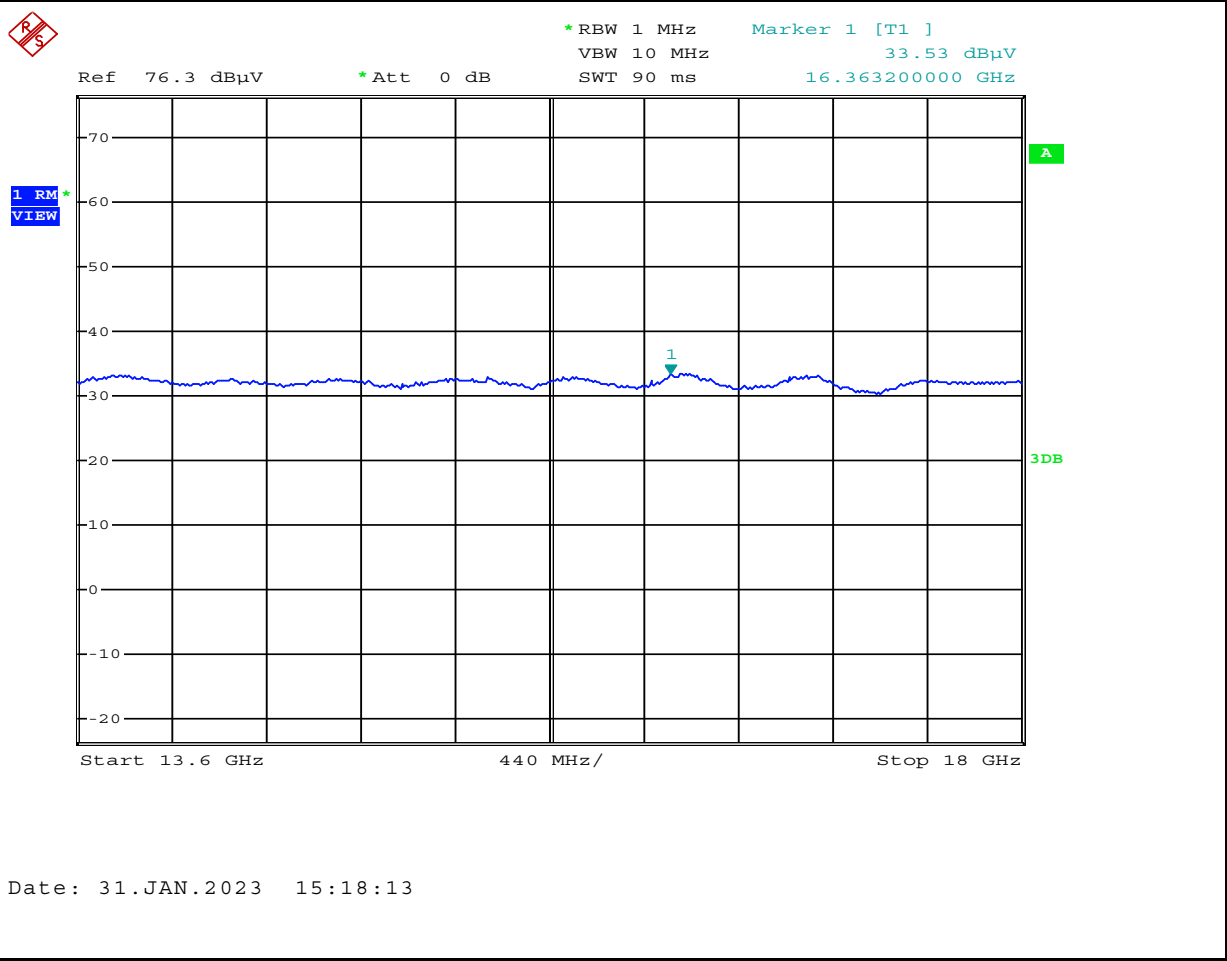


Date: 31.JAN.2023 15:15:40

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

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

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

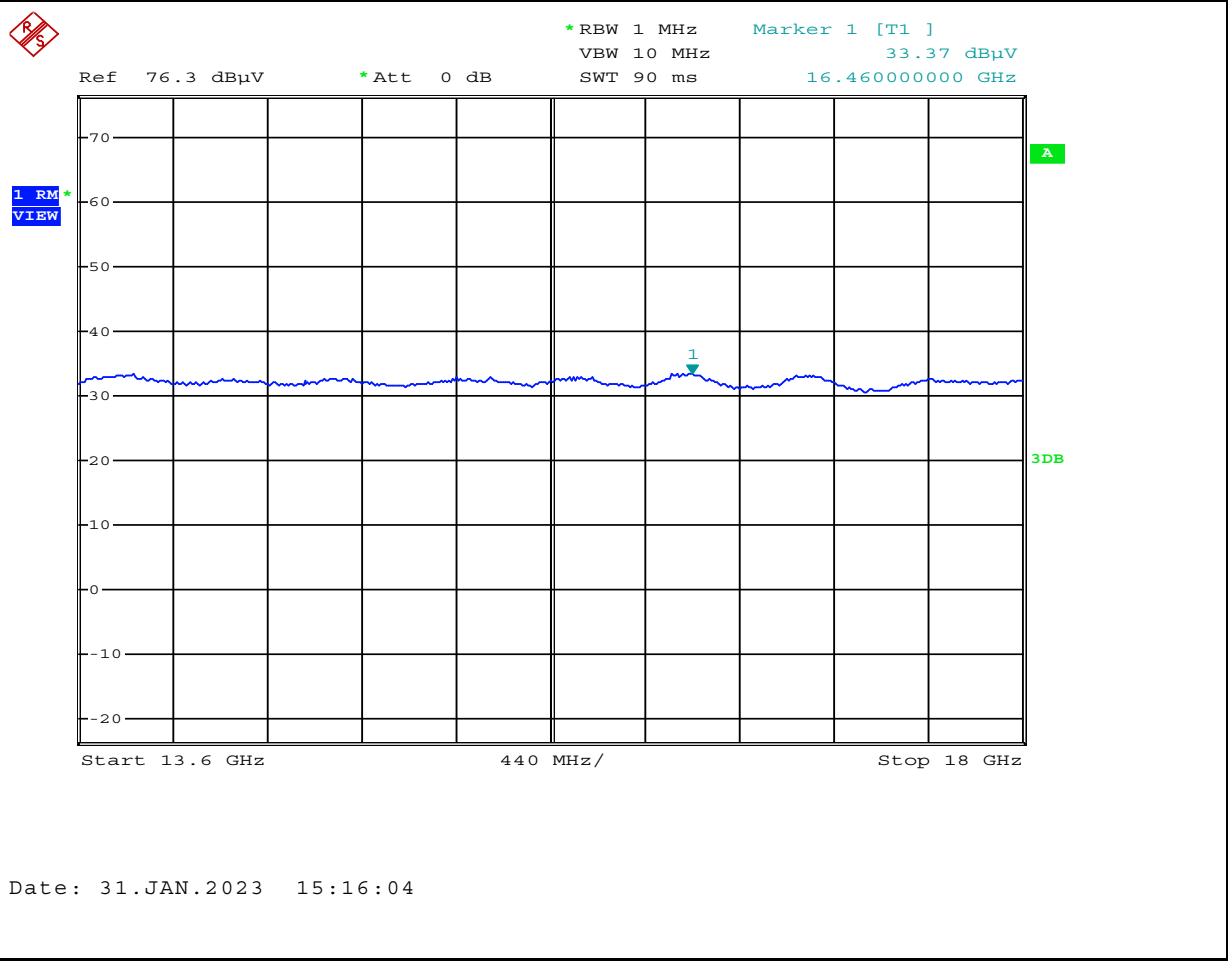
Polarization: Horizontal

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

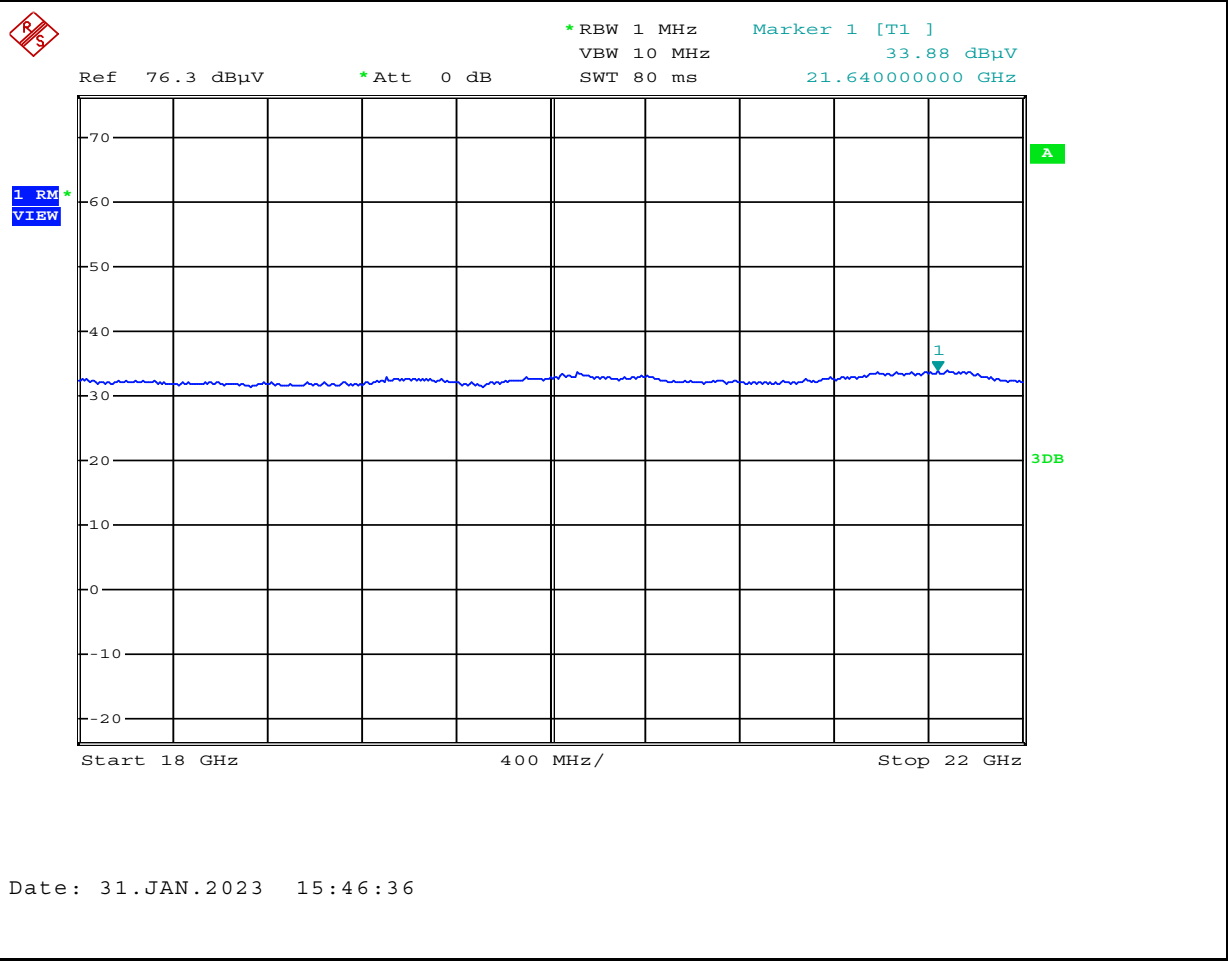
Polarization: Vertical

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel:

38

Channel Frequency:

2440

MHz

Mode:

BT BR

Modulation:

GFSK

Polarization:

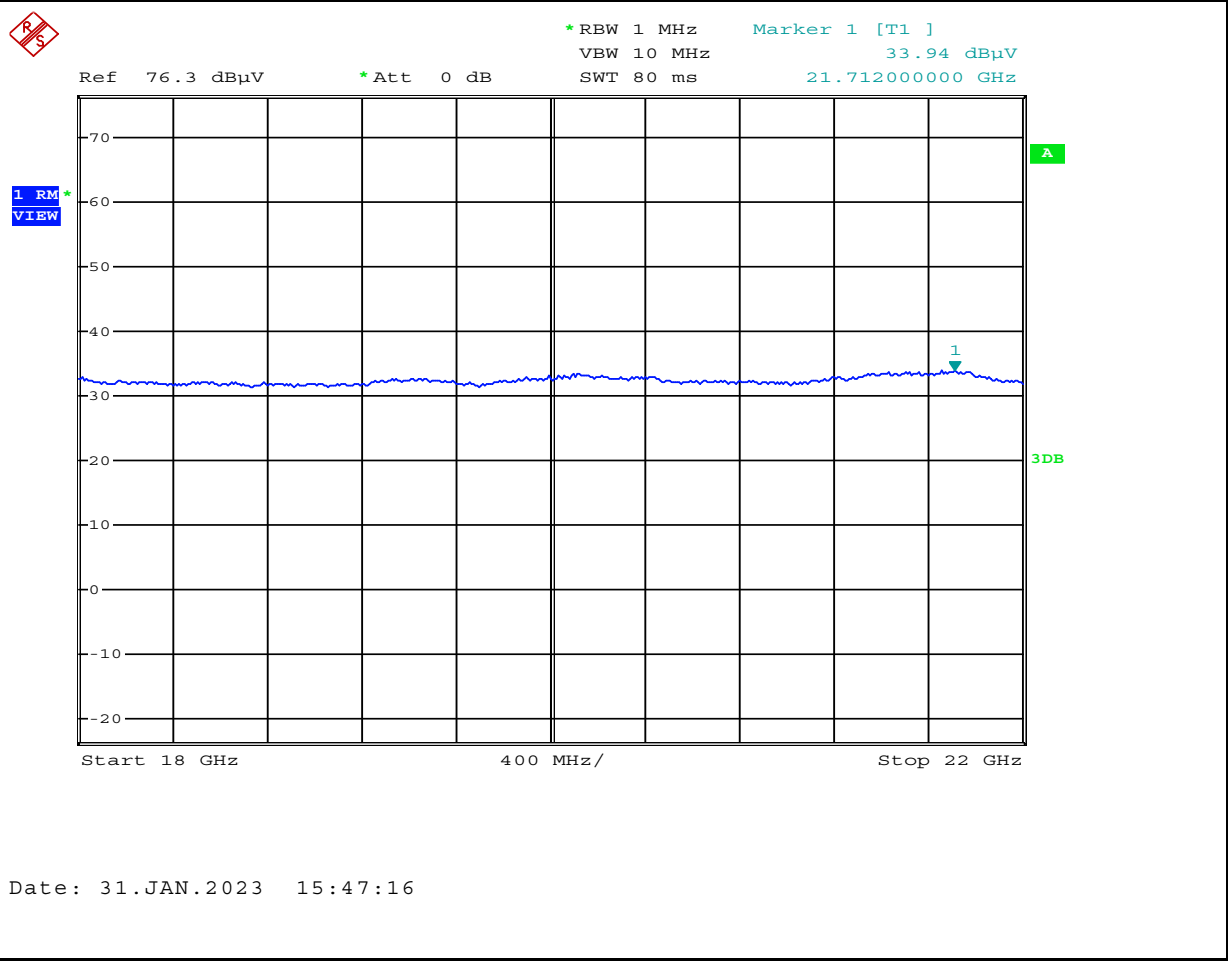
Horizontal

Measured Emission:

ND

dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

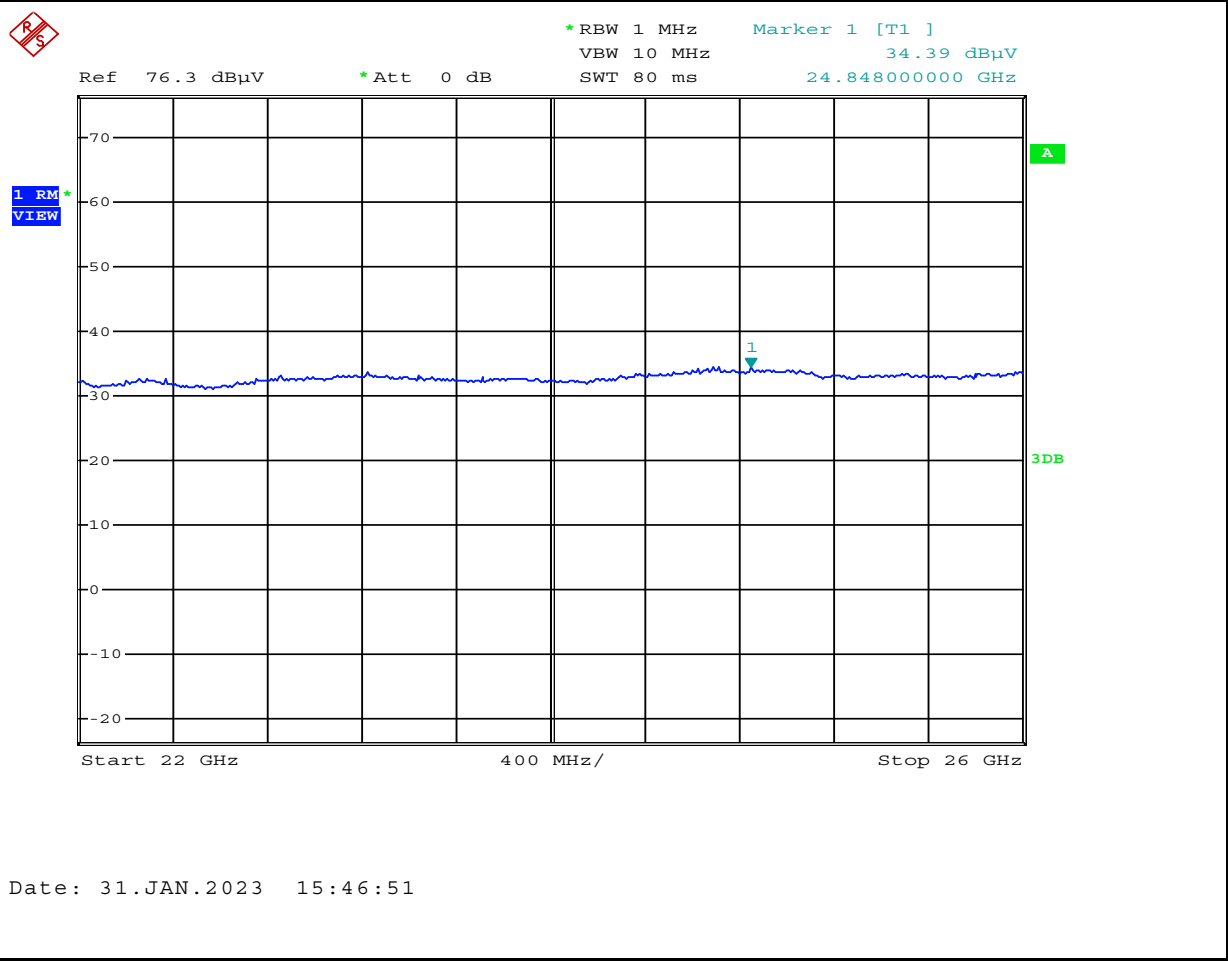
Polarization: Vertical

Channel Frequency: 2440 MHz

Modulation: GFSK

Measured Emission: ND dBm

Radiated Tx Emissions:



Channel: 38

Mode: BT BR

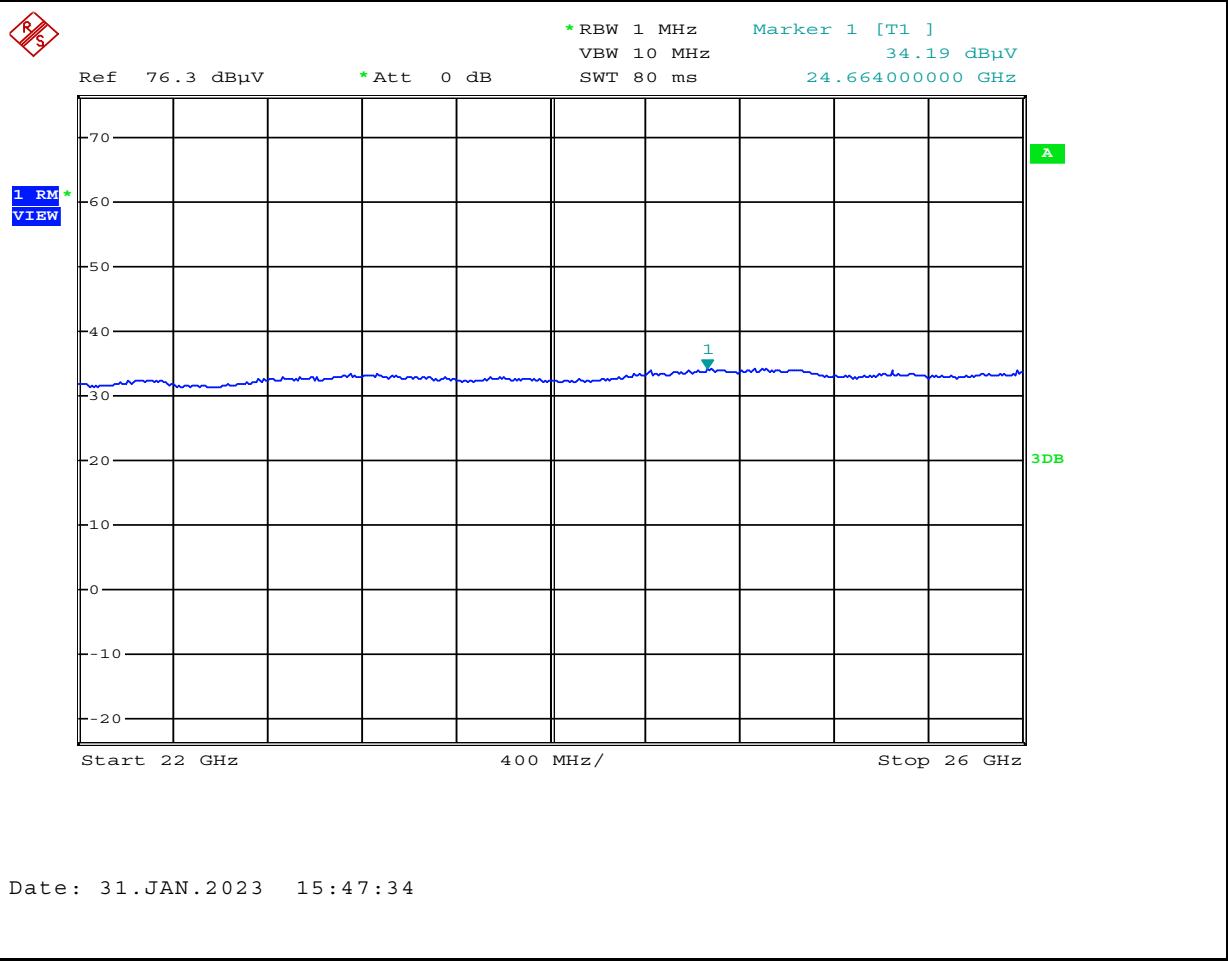
Polarization: Horizontal

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