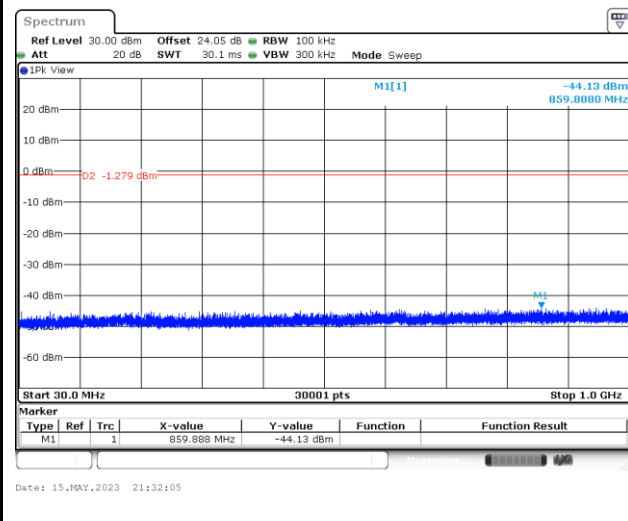




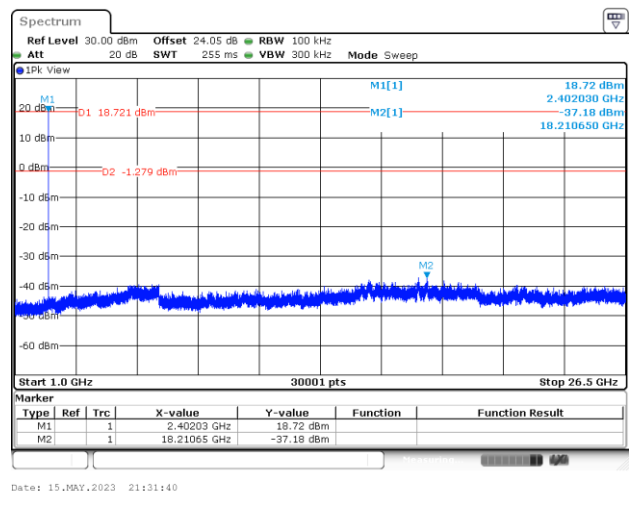
# Spurious Emission

<1Mbps>

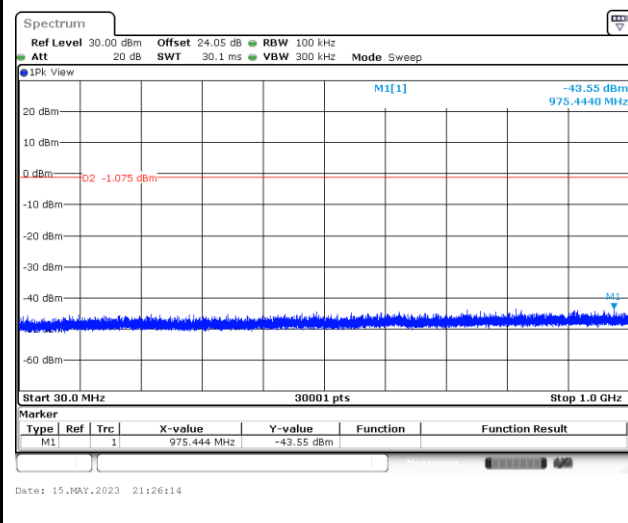
CSE Plot on Ch 00 between 30MHz ~ 1 GHz



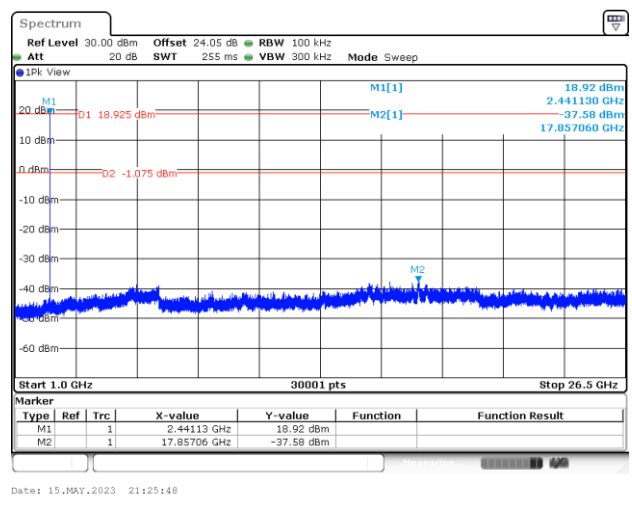
CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz



CSE Plot on Ch 39 between 30MHz ~ 1 GHz

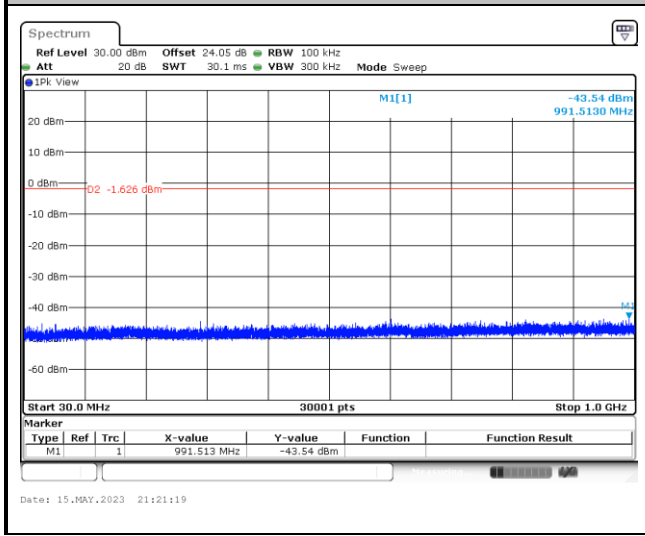


CSE Plot on Ch 39 between 1 GHz ~ 26.5 GHz

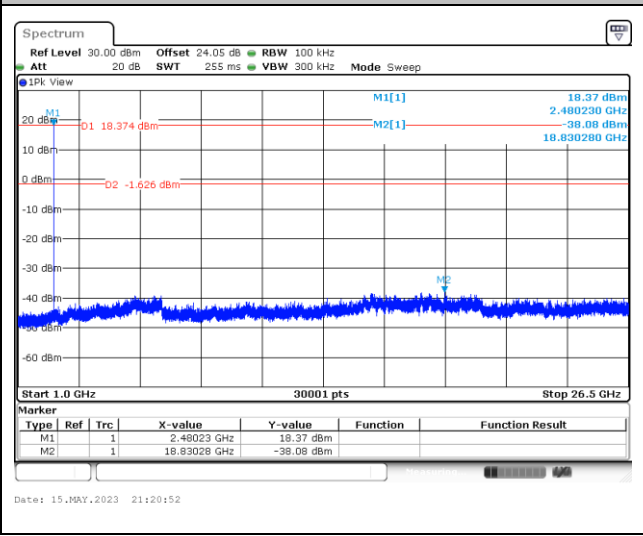




CSE Plot on Ch 78 between 30MHz ~ 1 GHz



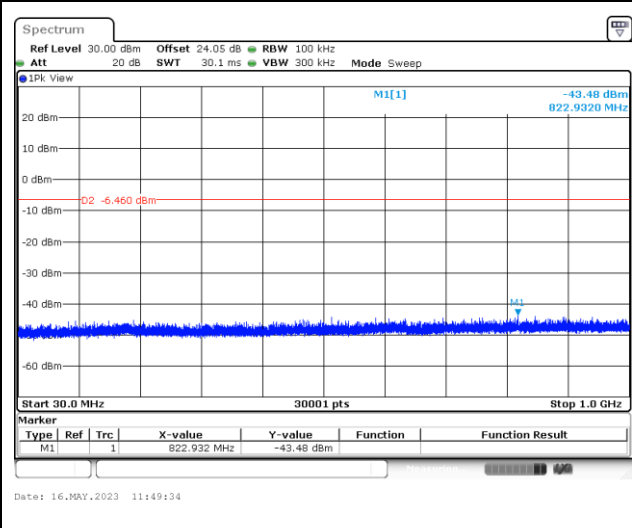
CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz



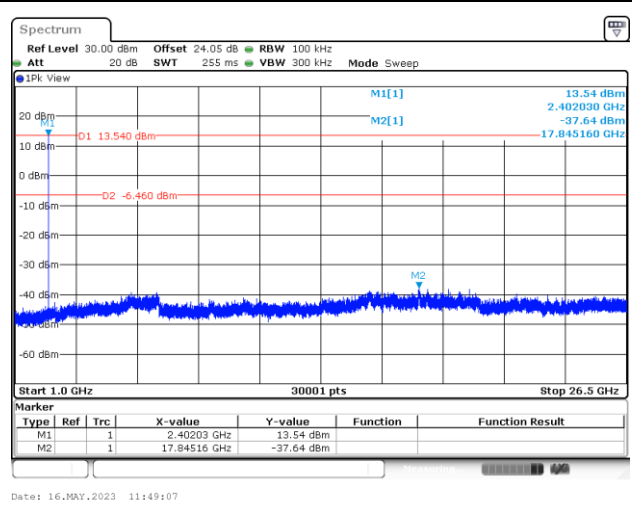


<2Mbps>

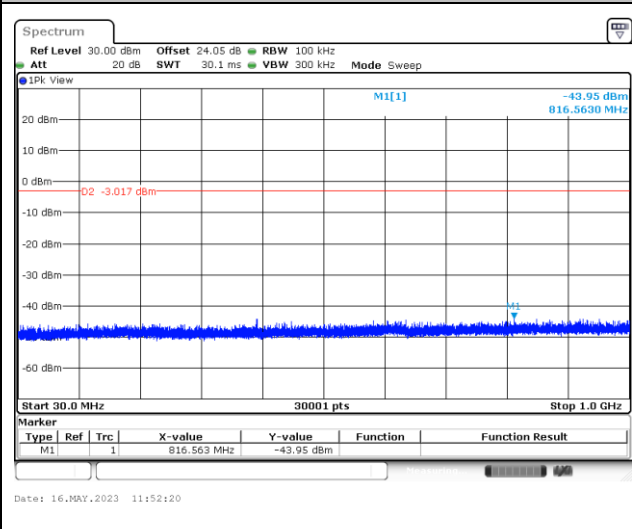
CSE Plot on Ch 00 between 30MHz ~ 1 GHz



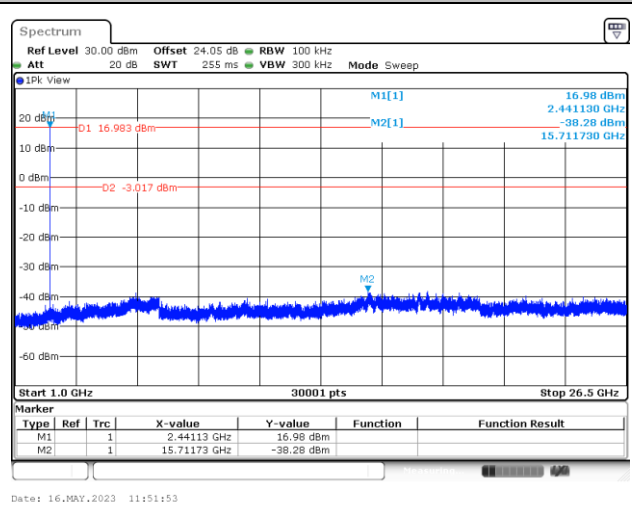
CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz



CSE Plot on Ch 00 between 30MHz ~ 1 GHz

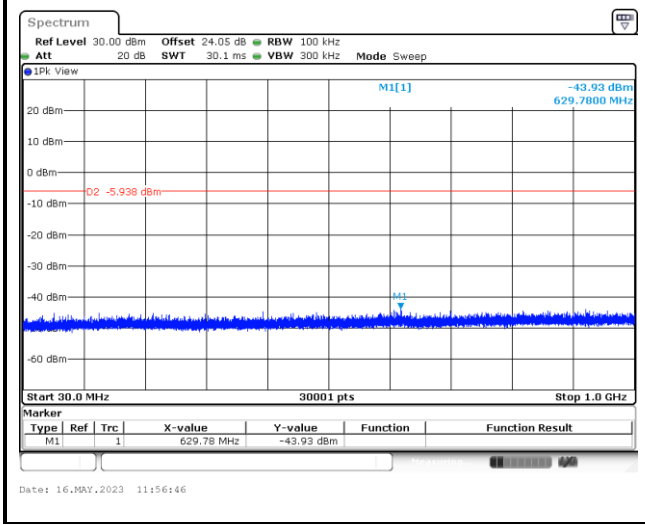


CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz

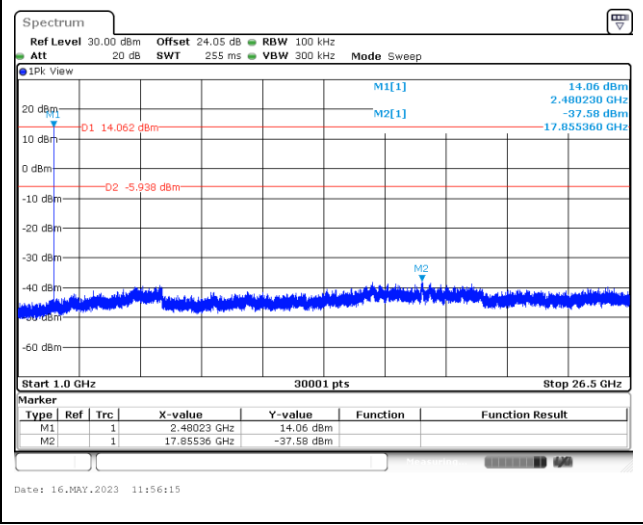




CSE Plot on Ch 00 between 30MHz ~ 1 GHz



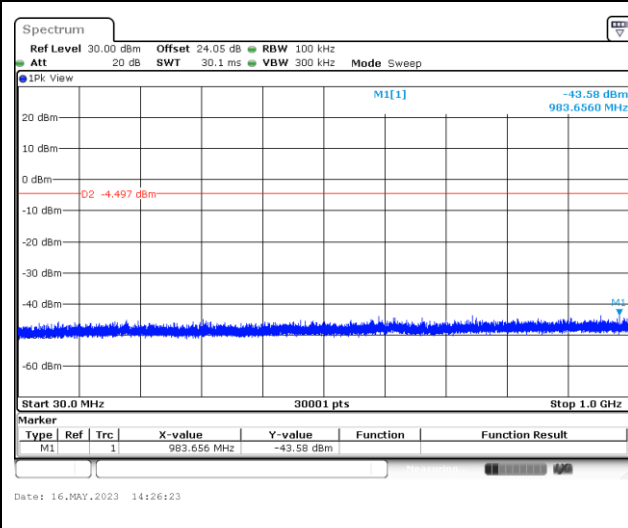
CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz



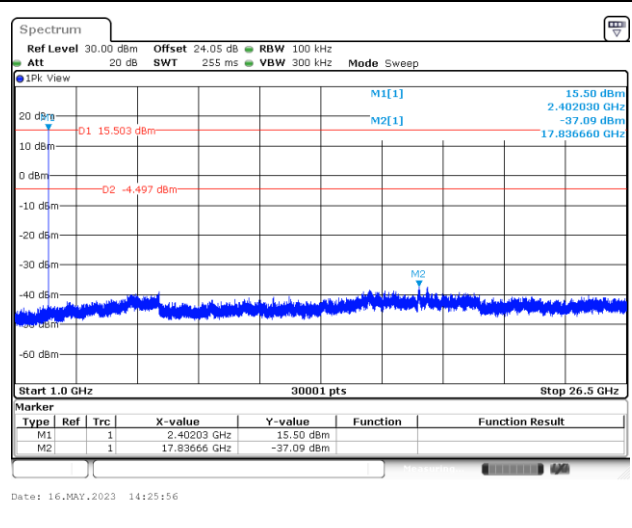


<3Mbps>

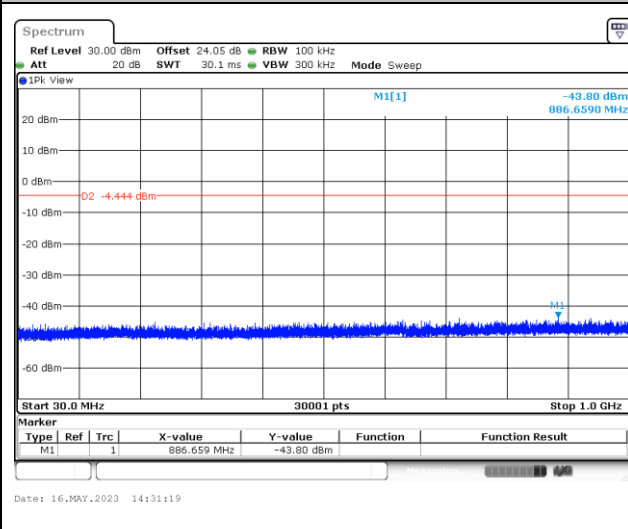
CSE Plot on Ch 00 between 30MHz ~ 1 GHz



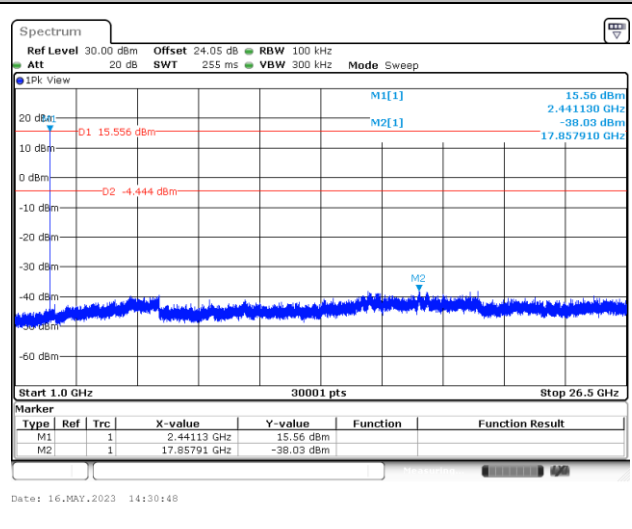
CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz



CSE Plot on Ch 39 between 30MHz ~ 1 GHz

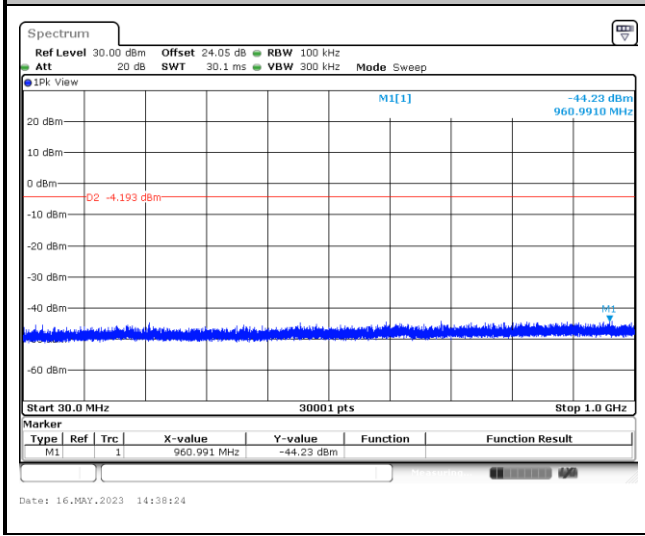


CSE Plot on Ch 39 between 1 GHz ~ 26.5 GHz

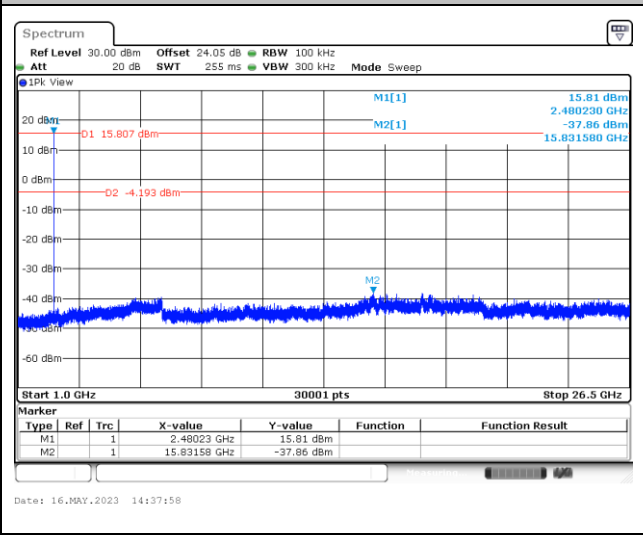




CSE Plot on Ch 78 between 30MHz ~ 1 GHz



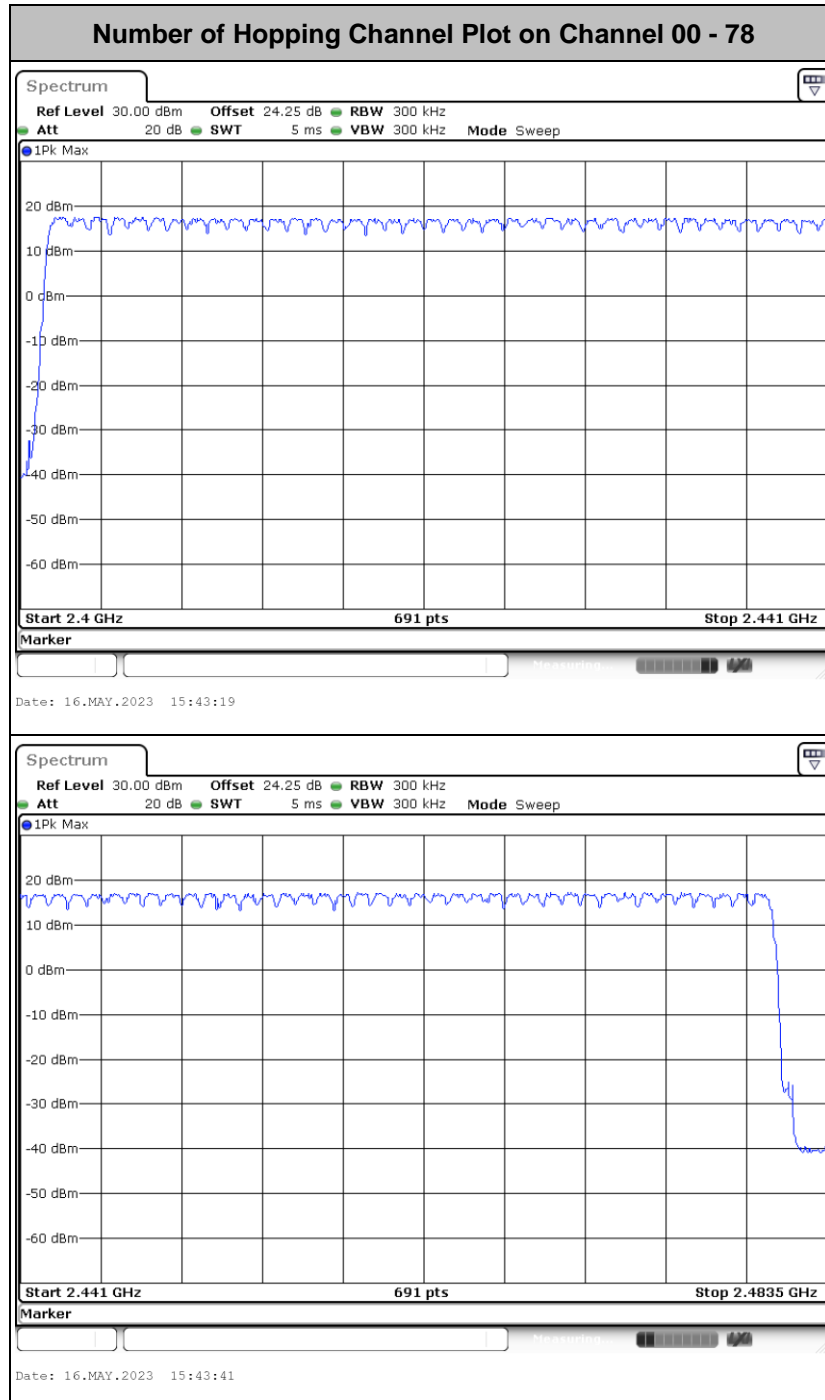
CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz





<HR 2Mbps Ant. 3>

## Number of Hopping Frequency



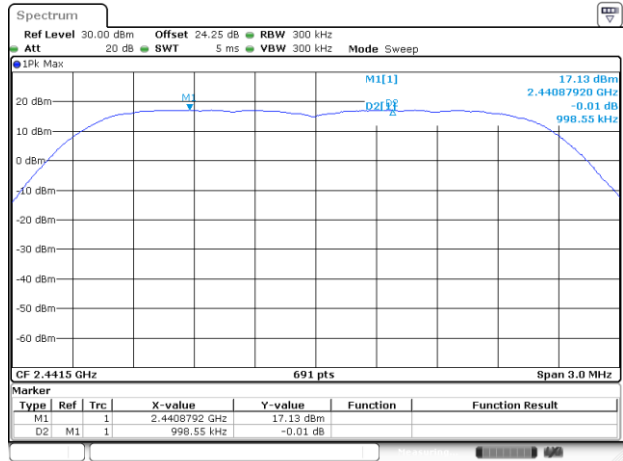
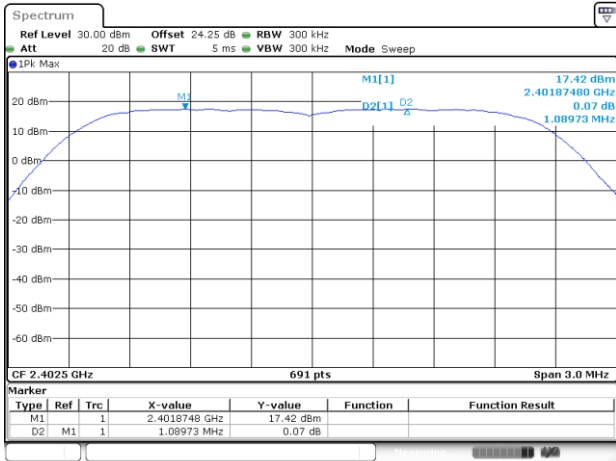


# Hopping Channel Separation

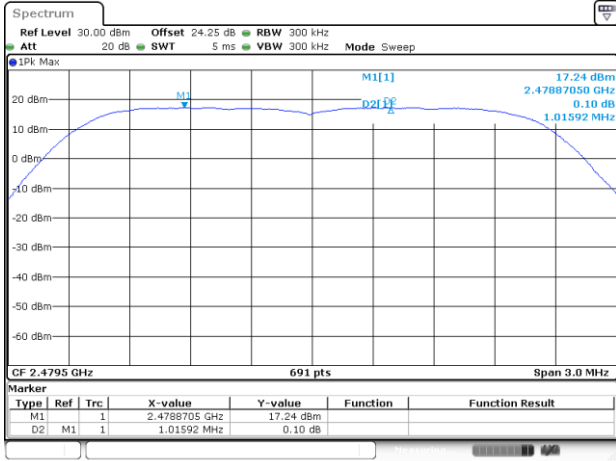
<HR 2Mbps>

### Channel Separation Plot on Channel 00 - 01

### Channel Separation Plot on Channel 39 - 40

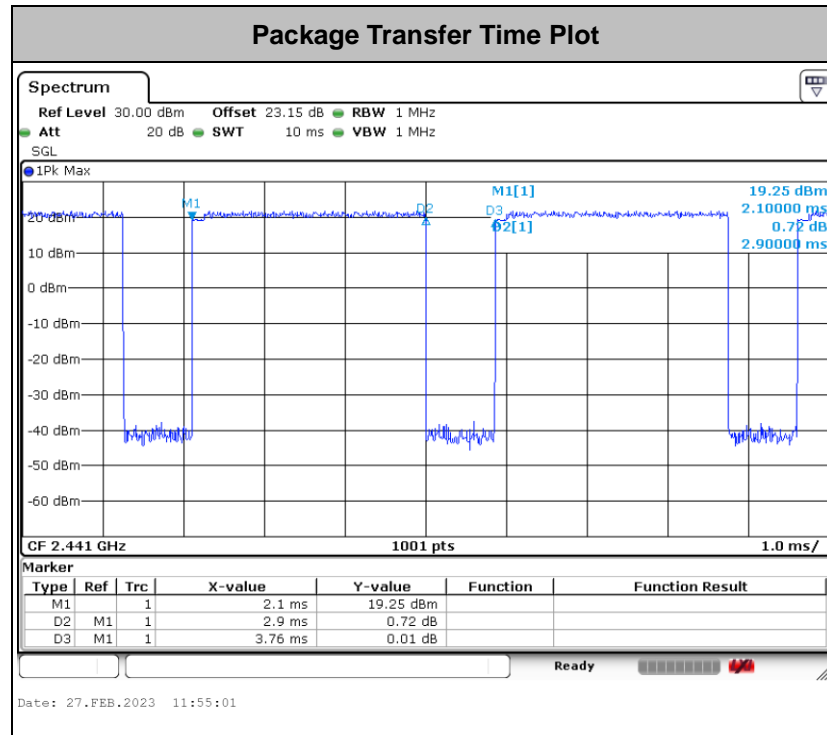


### Channel Separation Plot on Channel 77 - 78





**Dwell Time**



**Remark:**

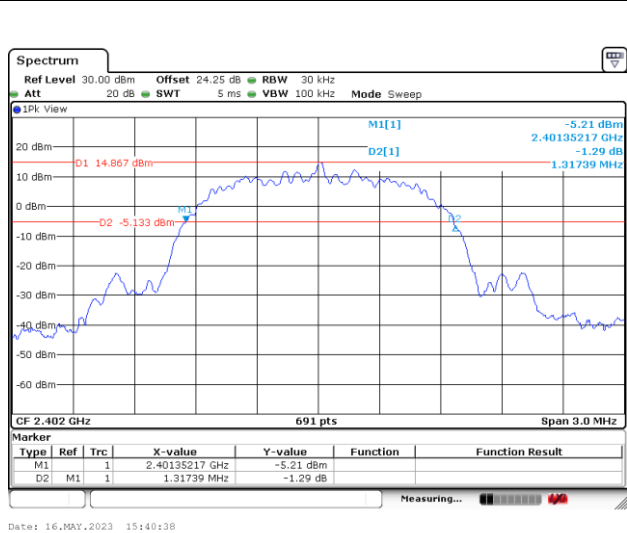
1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops.
2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time



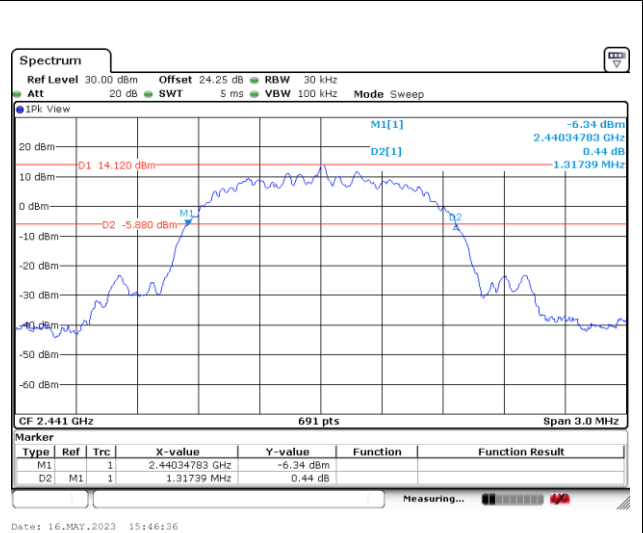
# 20dB Bandwidth

## <HR 2Mbps>

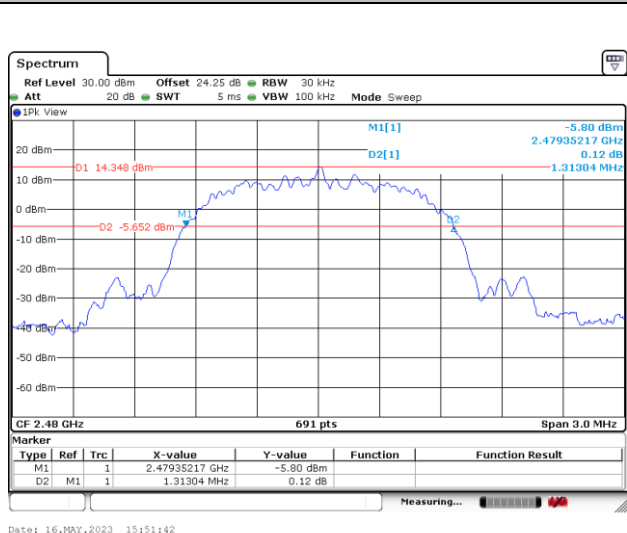
### 20 dB Bandwidth Plot on Channel 00



### 20 dB Bandwidth Plot on Channel 39



### 20 dB Bandwidth Plot on Channel 78

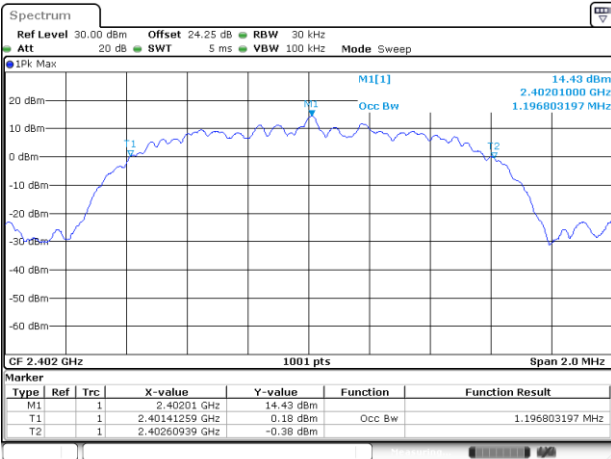




# 99% Occupied Bandwidth

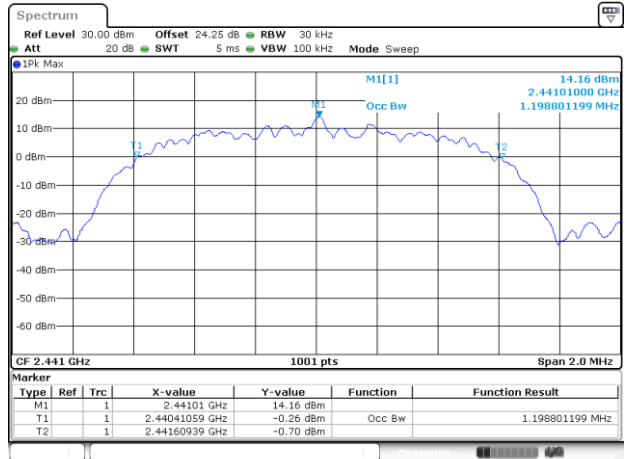
<HR 2Mbps>

## 99% Occupied Bandwidth on Channel 00



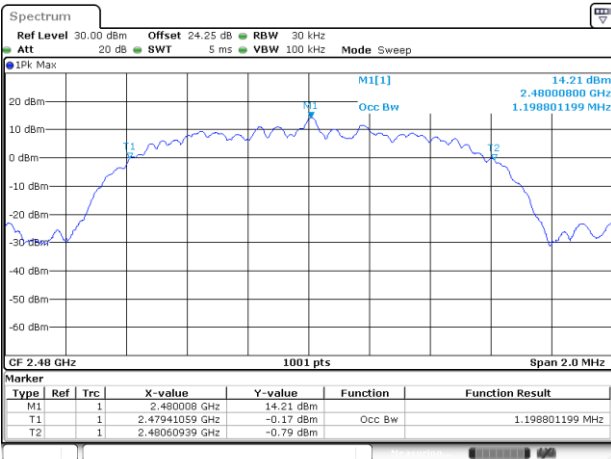
Date: 16.MAY.2023 15:39:55

## 99% Occupied Bandwidth on Channel 39



Date: 16.MAY.2023 15:46:19

## 99% Occupied Bandwidth on Channel 78



Date: 16.MAY.2023 15:51:04

**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

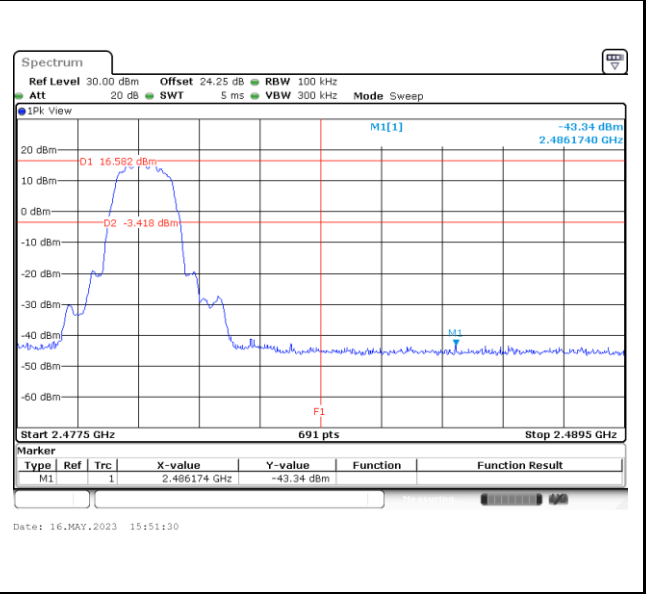
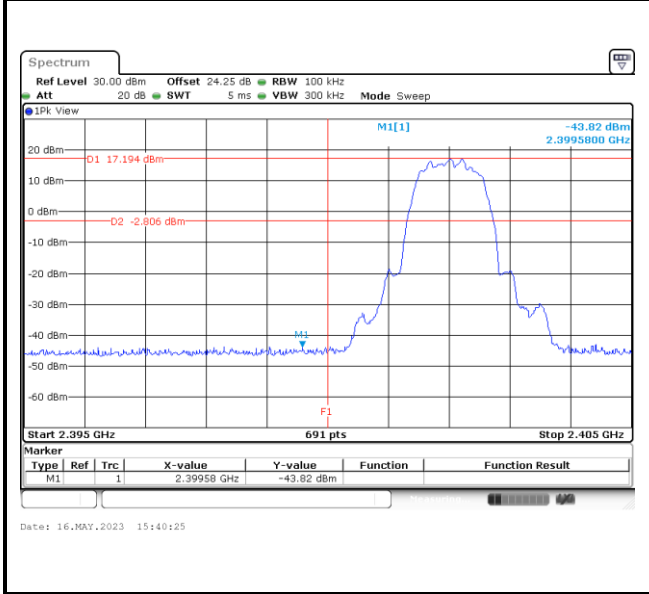


# Band Edges

<HR 2Mbps>

### Low Band Edge Plot on Channel 00

### High Band Edge Plot on Channel 78

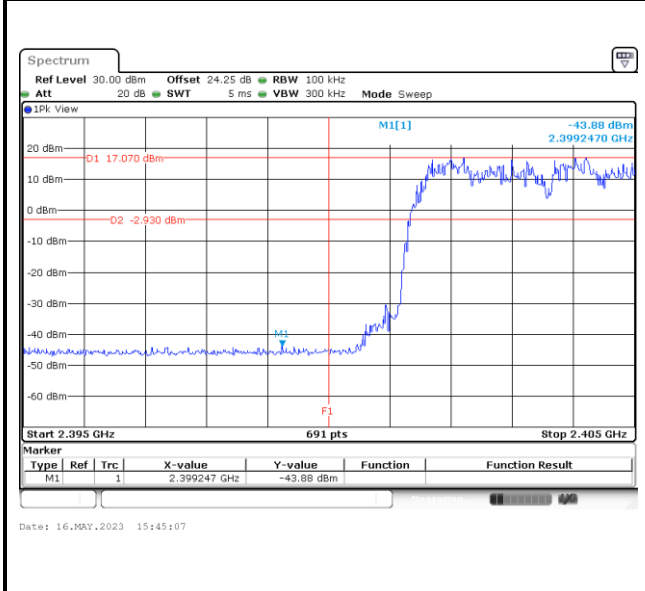




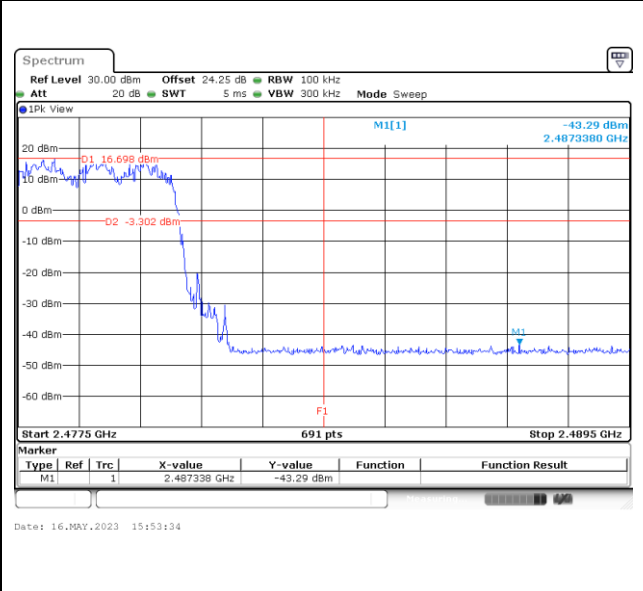
# Hopping Mode Band Edges

<HR 2Mbps>

### Hopping Mode Low Band Edge Plot



### Hopping Mode High Band Edge Plot

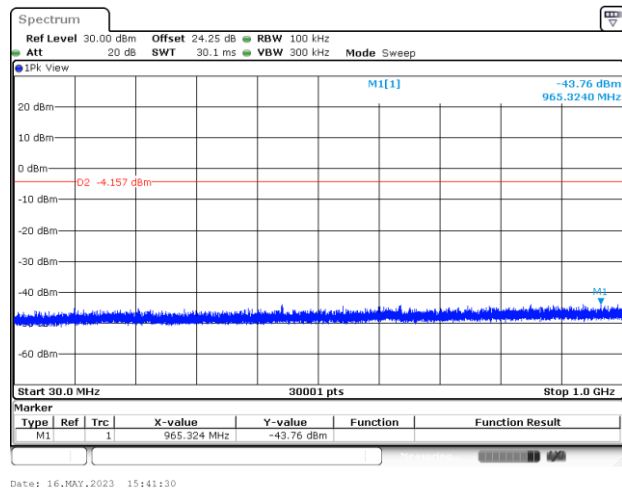




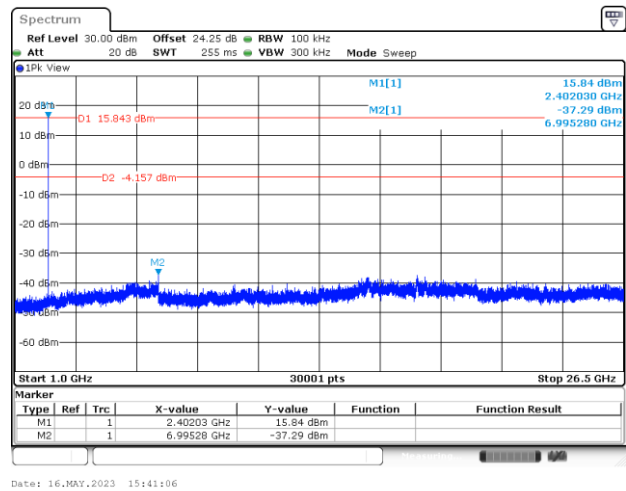
# Spurious Emission

<HR 2Mbps>

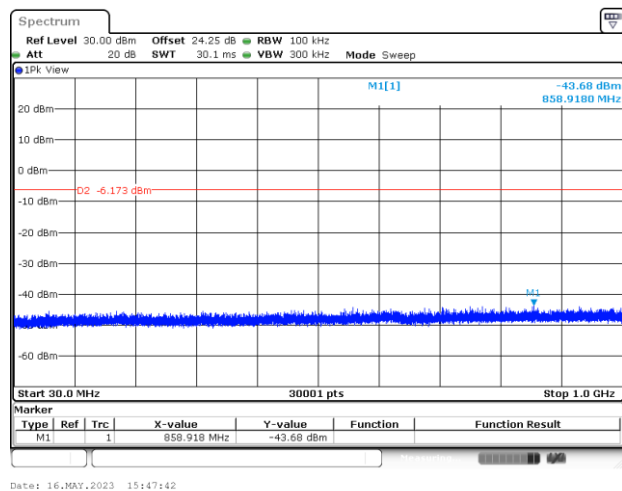
CSE Plot on Ch 00 between 30MHz ~ 1 GHz



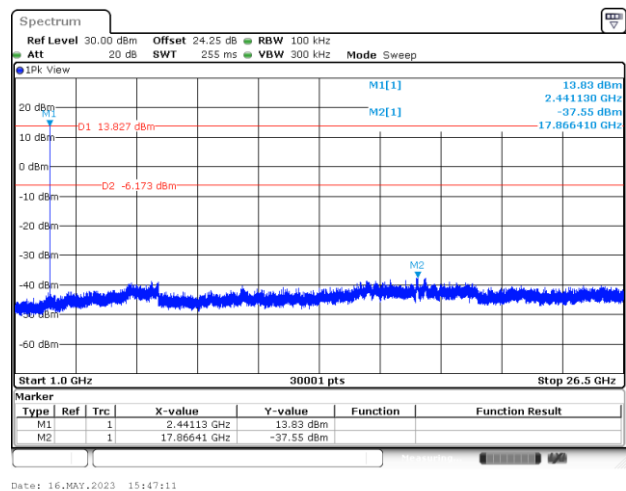
CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz



CSE Plot on Ch 39 between 30MHz ~ 1 GHz

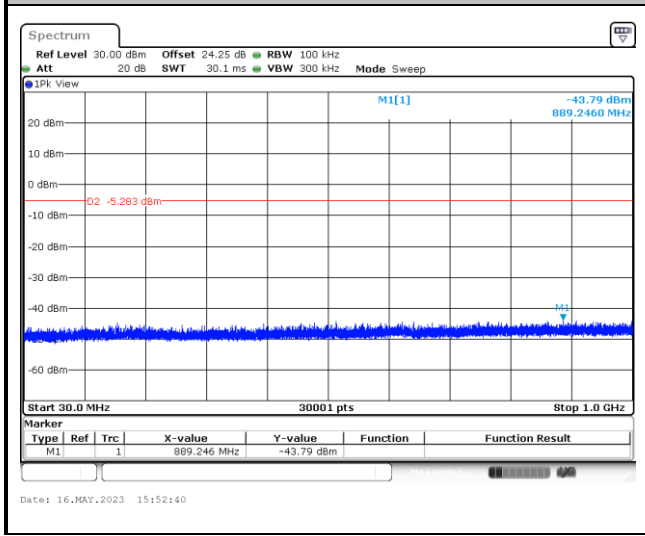


CSE Plot on Ch 39 between 1 GHz ~ 26.5 GHz

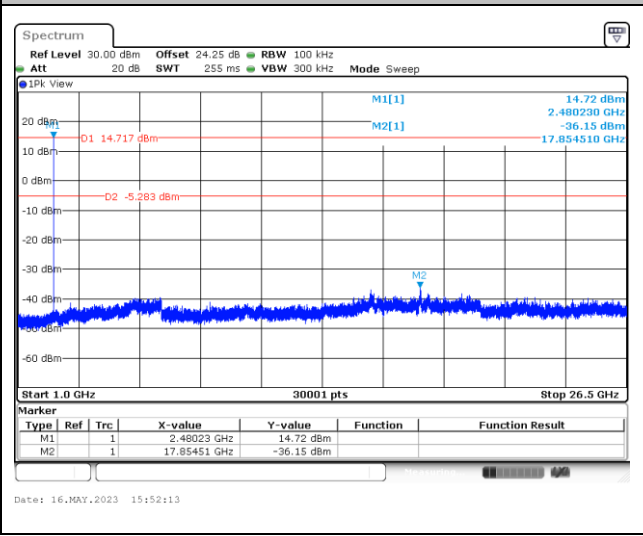




CSE Plot on Ch 78 between 30MHz ~ 1 GHz



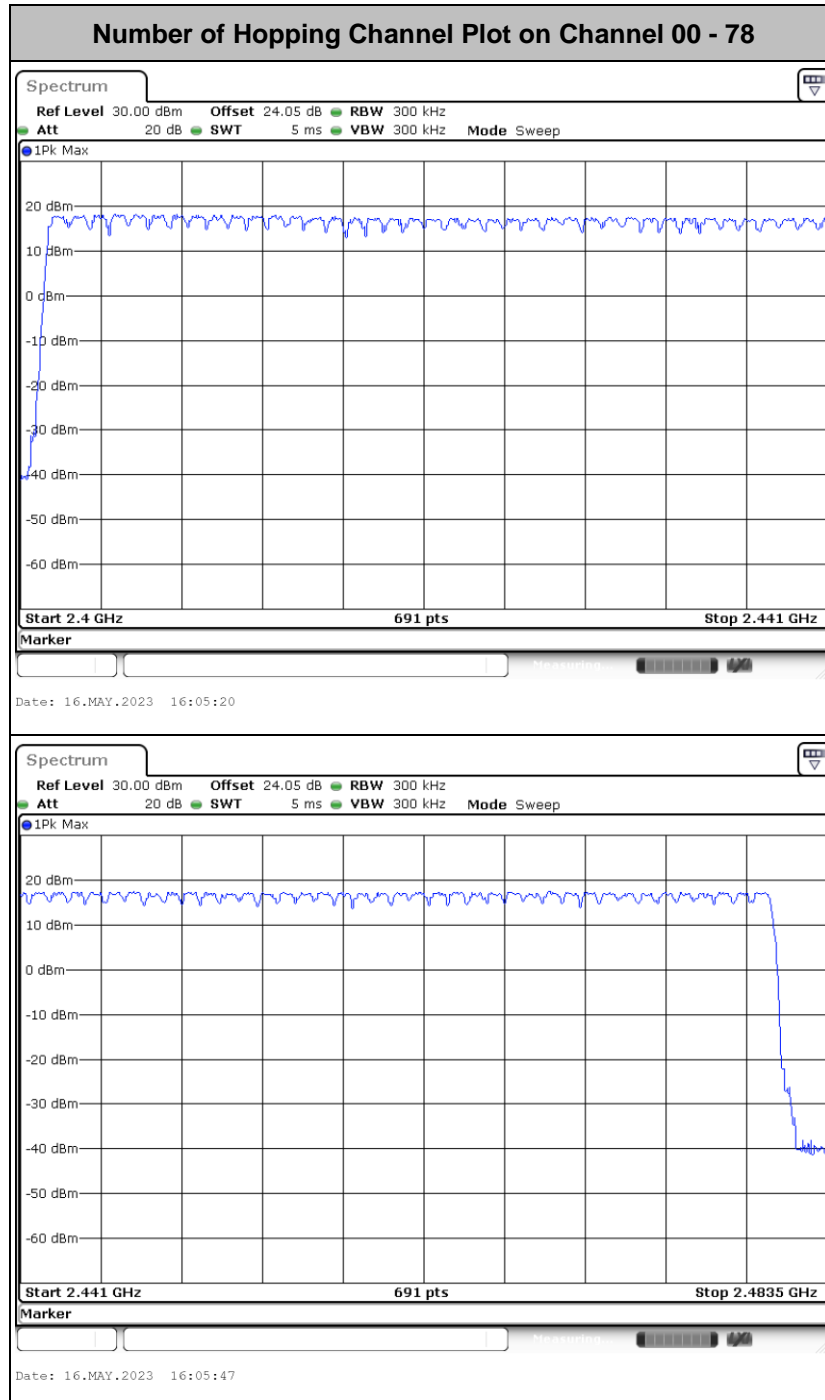
CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz





<HR 2Mbps Ant.4>

## Number of Hopping Frequency





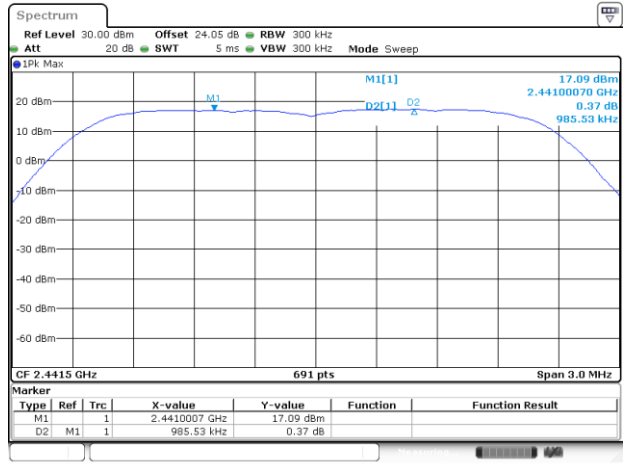
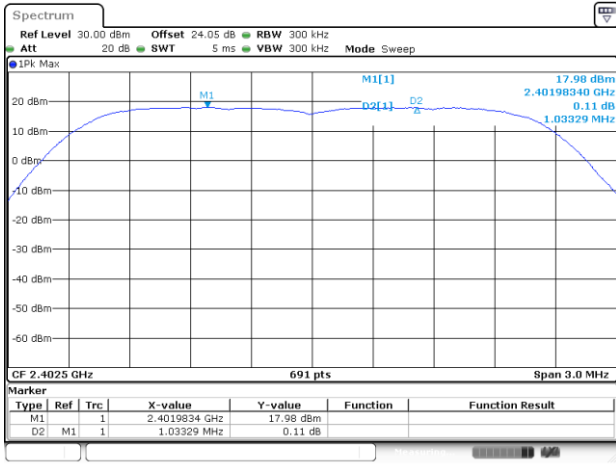


# Hopping Channel Separation

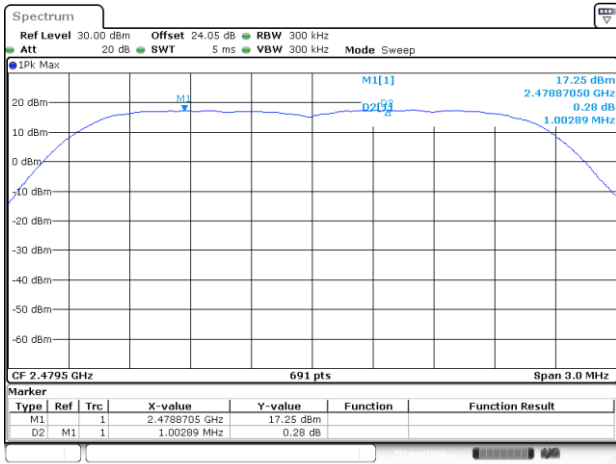
<HR 2Mbps>

Channel Separation Plot on Channel 00 - 01

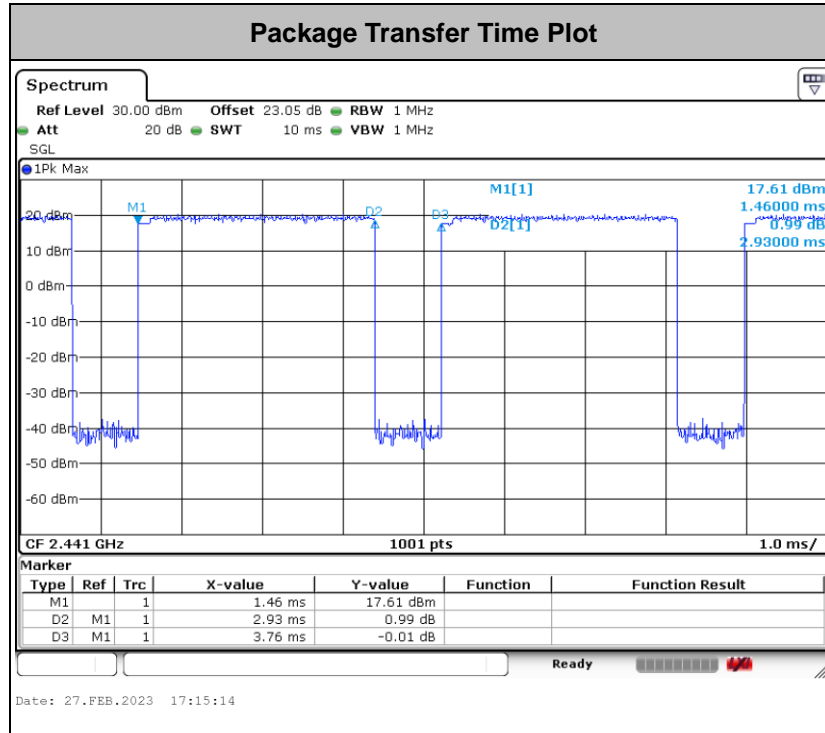
Channel Separation Plot on Channel 39 - 40



Channel Separation Plot on Channel 77 - 78



**Dwell Time**



**Remark:**

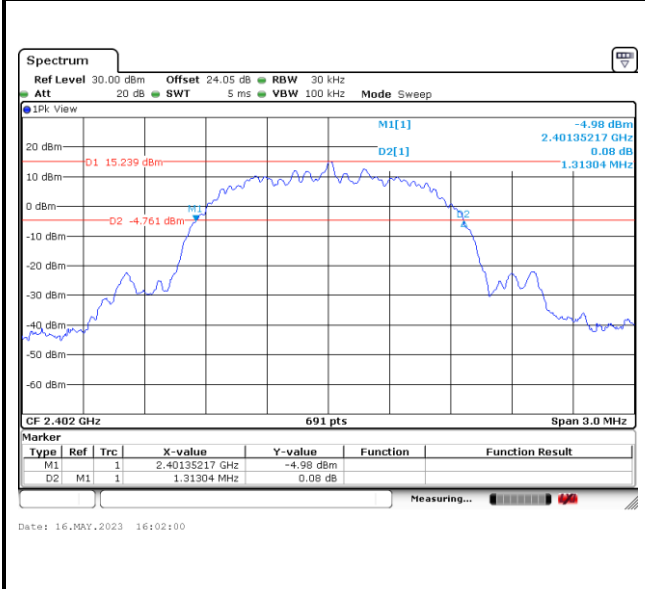
1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops.
2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time



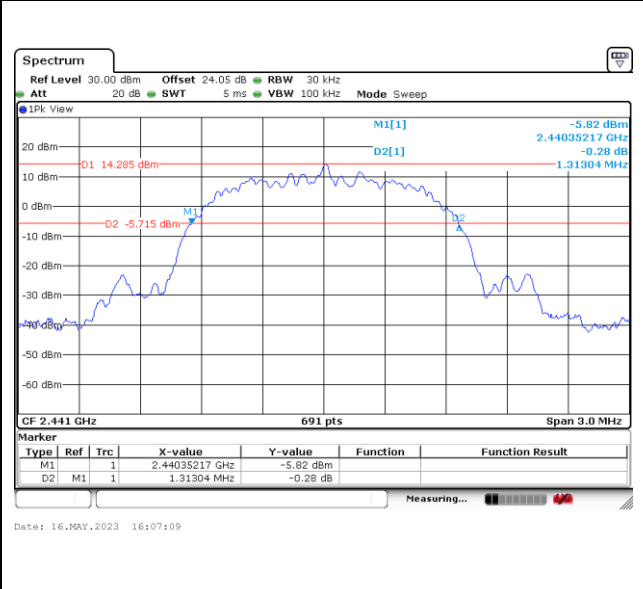
**20dB Bandwidth**

**<HR 2Mbps>**

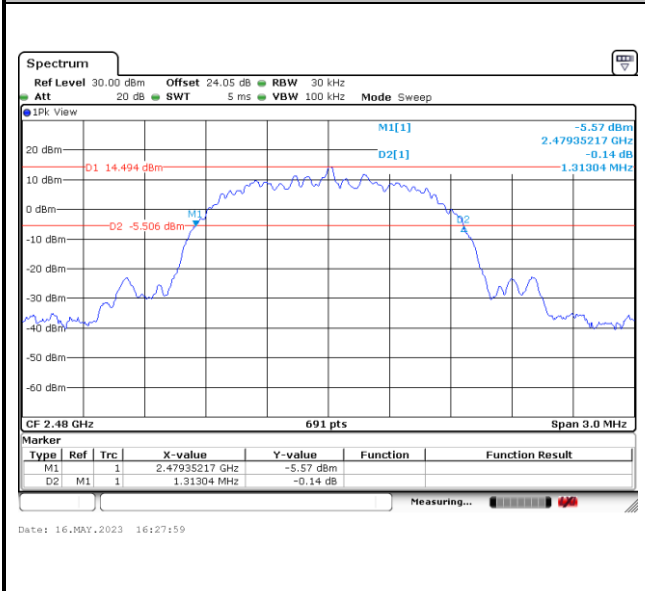
**20 dB Bandwidth Plot on Channel 00**



**20 dB Bandwidth Plot on Channel 39**

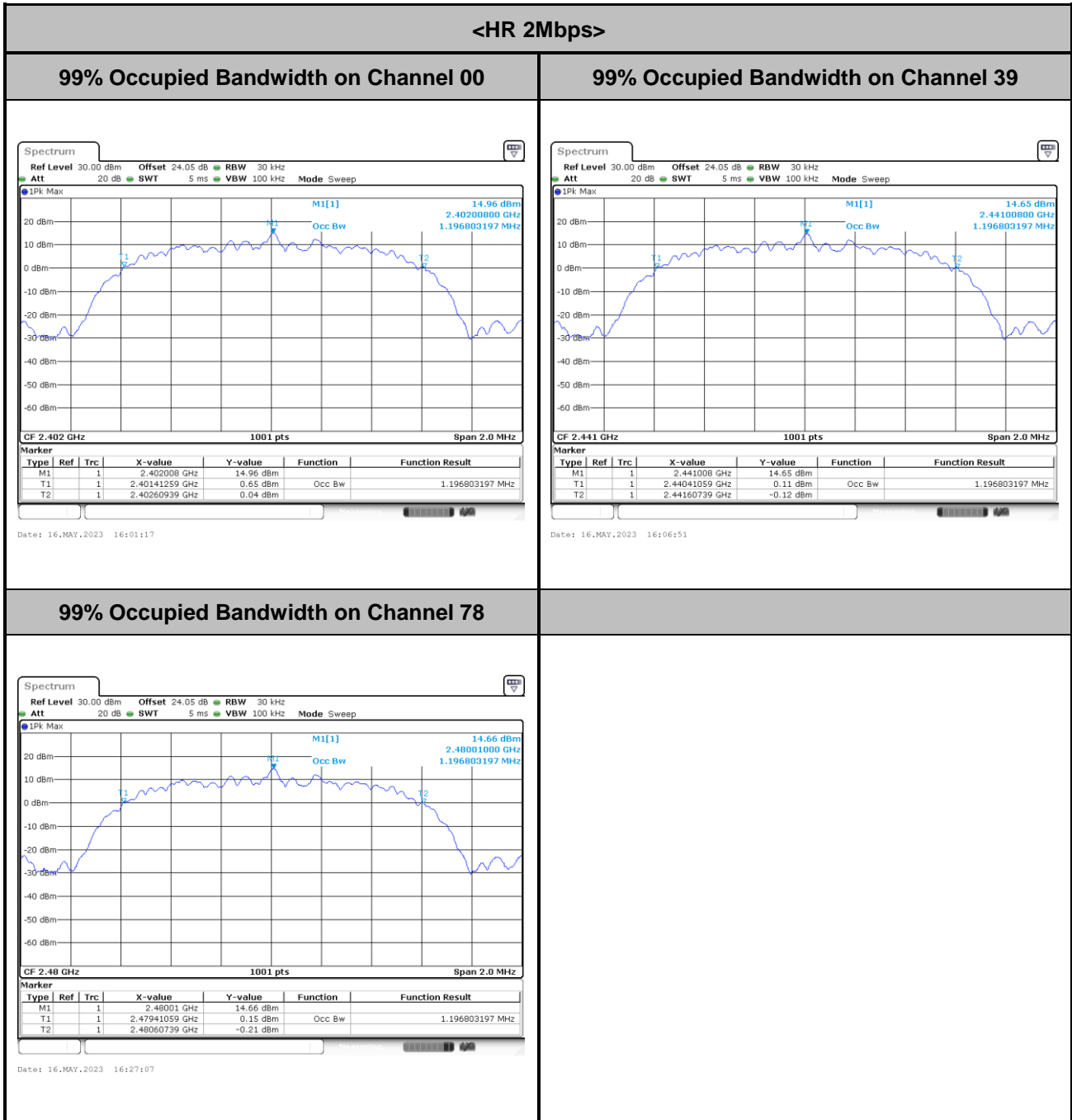


**20 dB Bandwidth Plot on Channel 78**





# 99% Occupied Bandwidth



**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

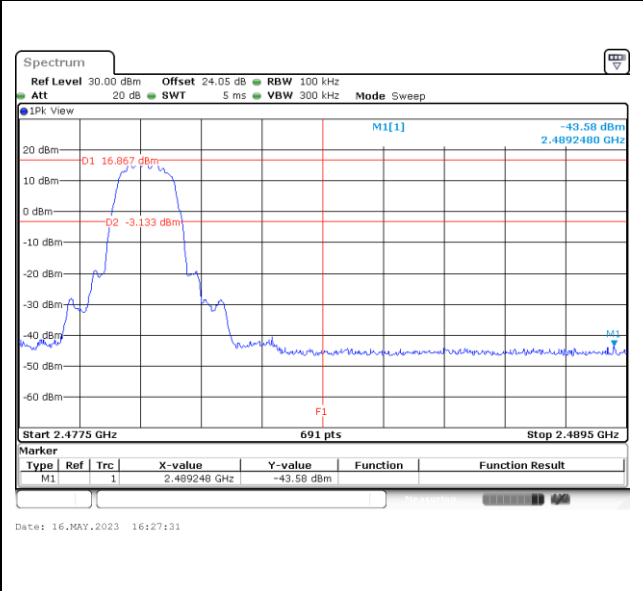
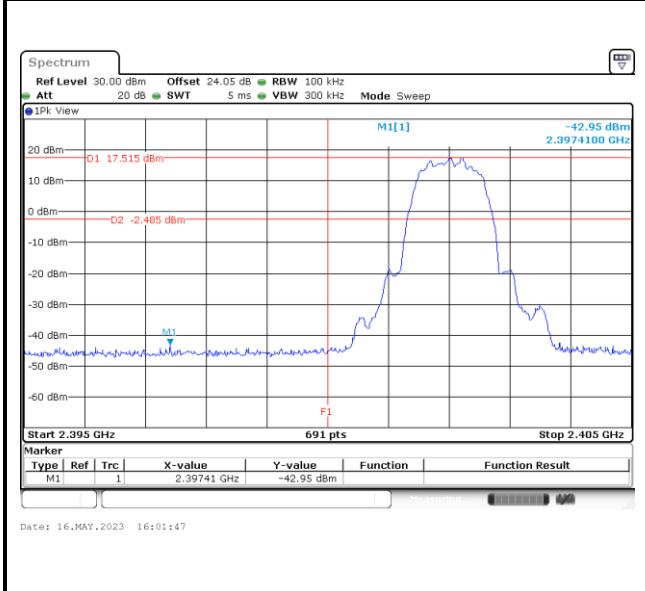


# Band Edges

<HR 2Mbps>

### Low Band Edge Plot on Channel 00

### High Band Edge Plot on Channel 78

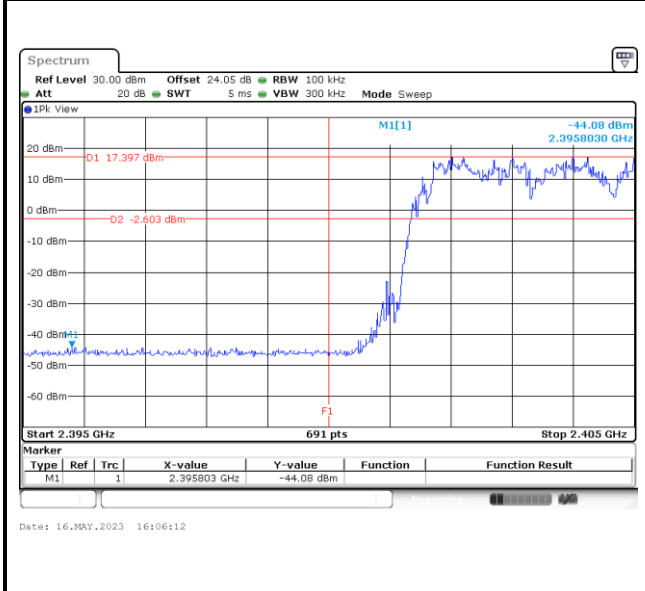




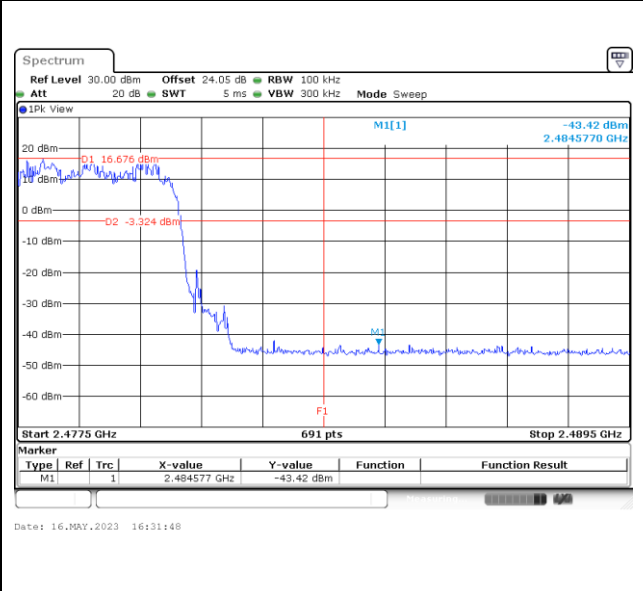
# Hopping Mode Band Edges

<HR 2Mbps>

### Hopping Mode Low Band Edge Plot



### Hopping Mode High Band Edge Plot

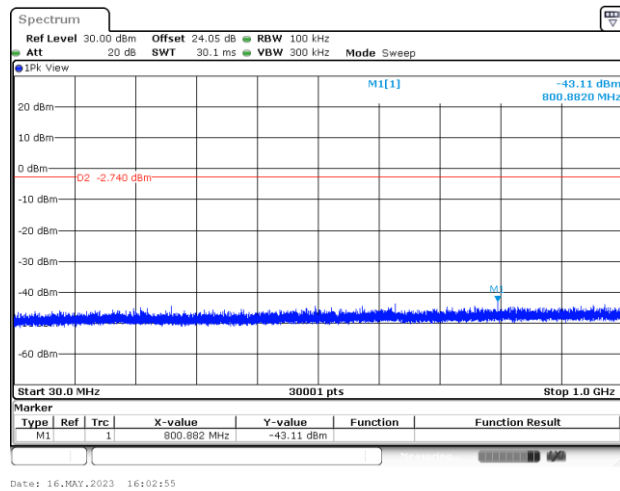




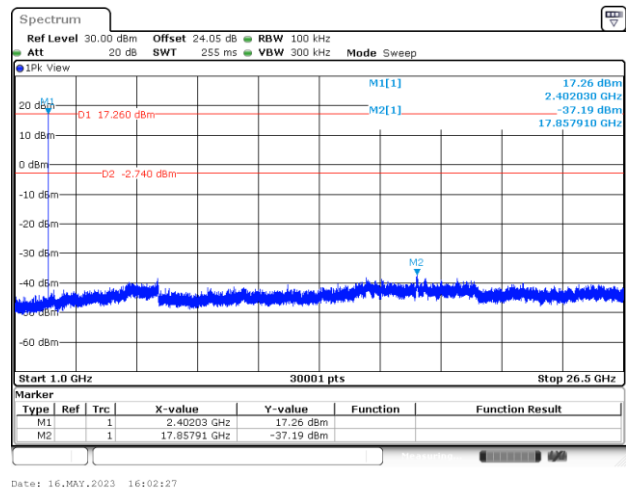
# Spurious Emission

<HR 2Mbps>

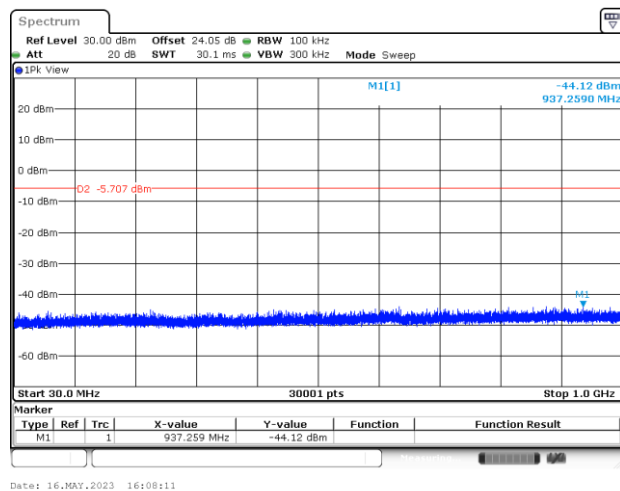
CSE Plot on Ch 00 between 30MHz ~ 1 GHz



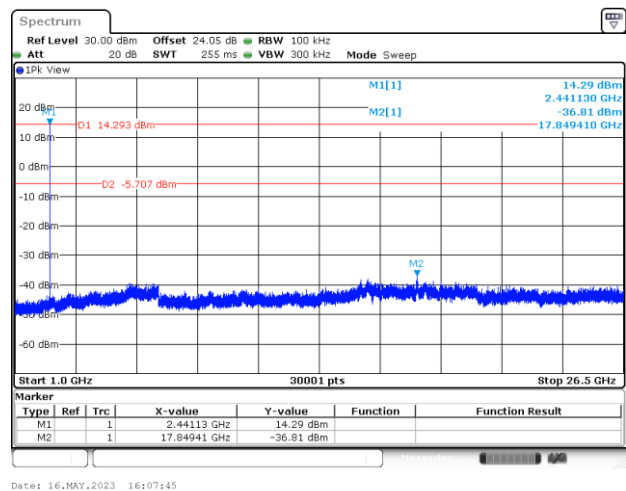
CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz



CSE Plot on Ch 39 between 30MHz ~ 1 GHz

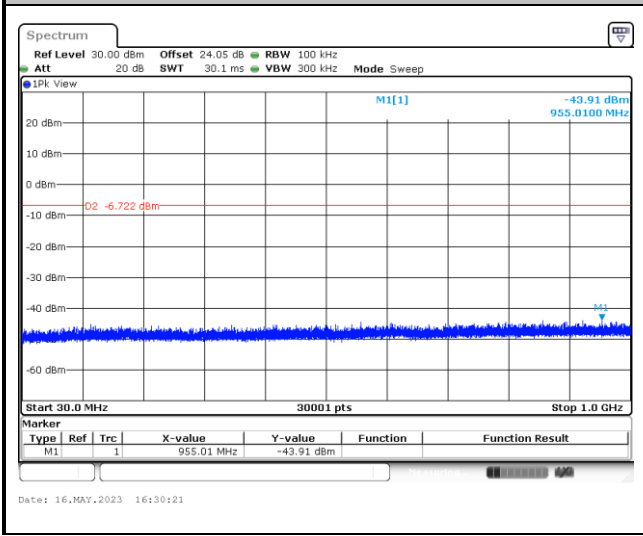


CSE Plot on Ch 39 between 1 GHz ~ 26.5 GHz

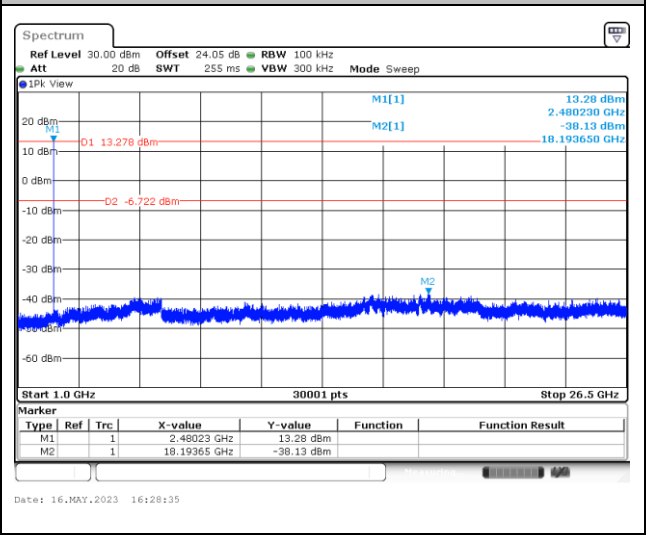




CSE Plot on Ch 78 between 30MHz ~ 1 GHz



CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz

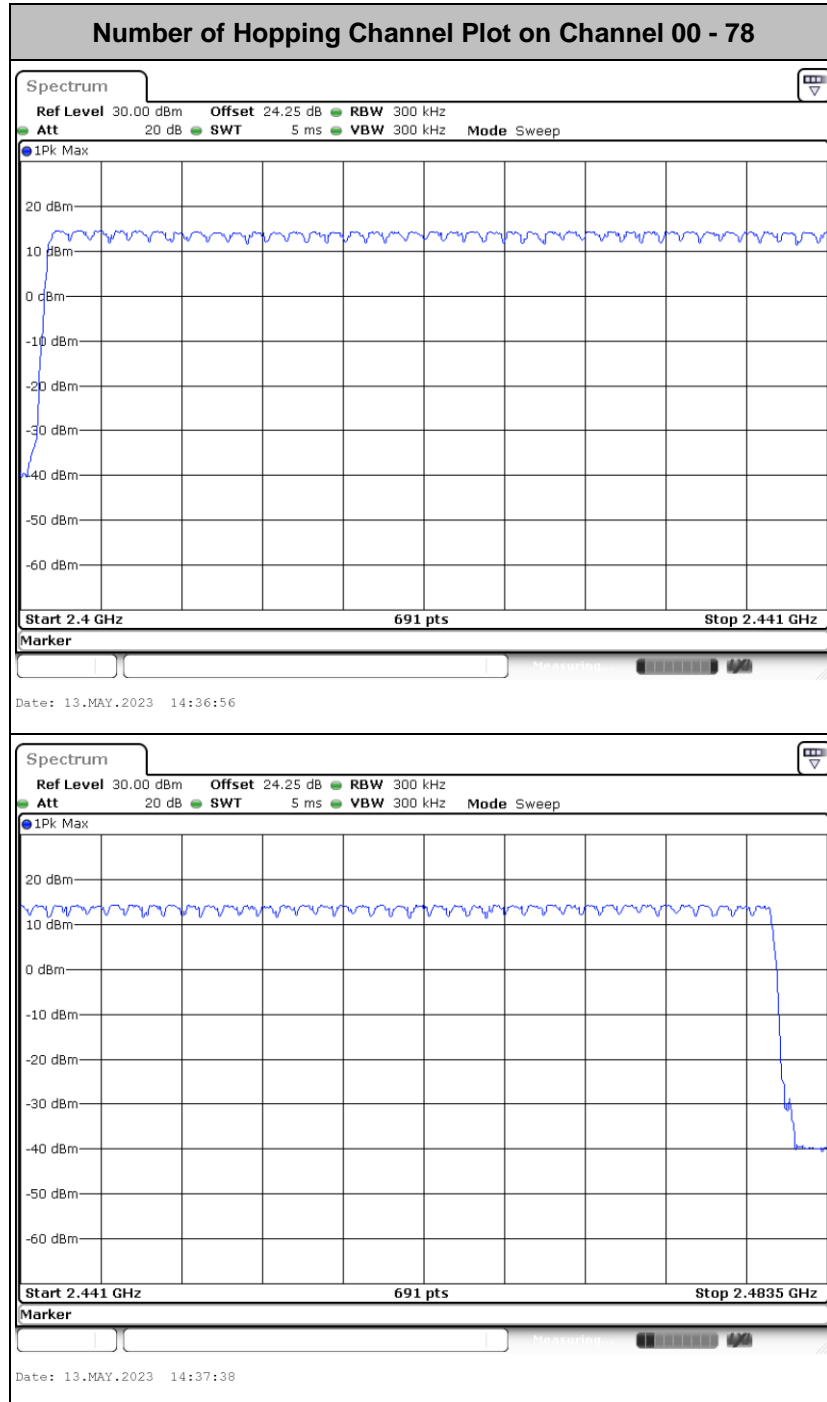






< TXBF BR+EDR Ant. 3>

# Number of Hopping Frequency



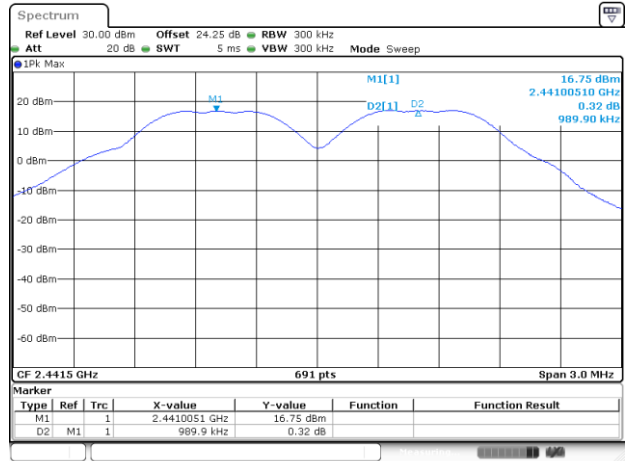
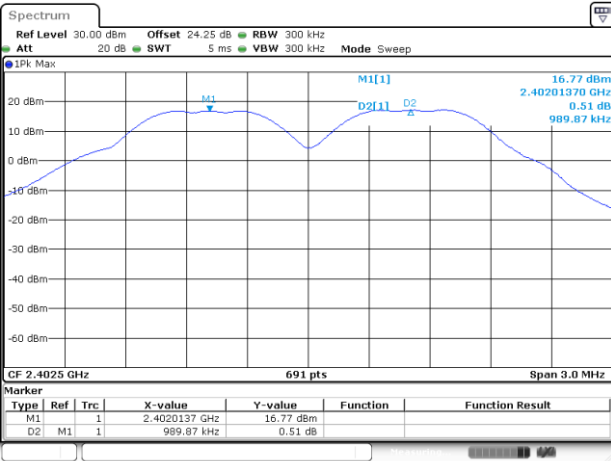


# Hopping Channel Separation

<1Mbps>

### Channel Separation Plot on Channel 00 - 01

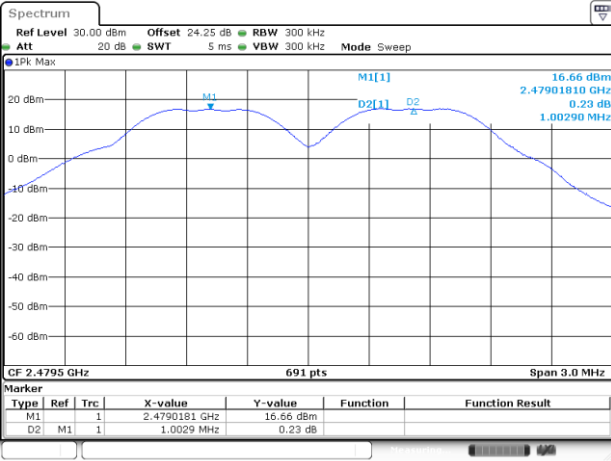
### Channel Separation Plot on Channel 39 - 40



Date: 13.MAY.2023 11:29:31

Date: 13.MAY.2023 11:44:24

### Channel Separation Plot on Channel 77 - 78

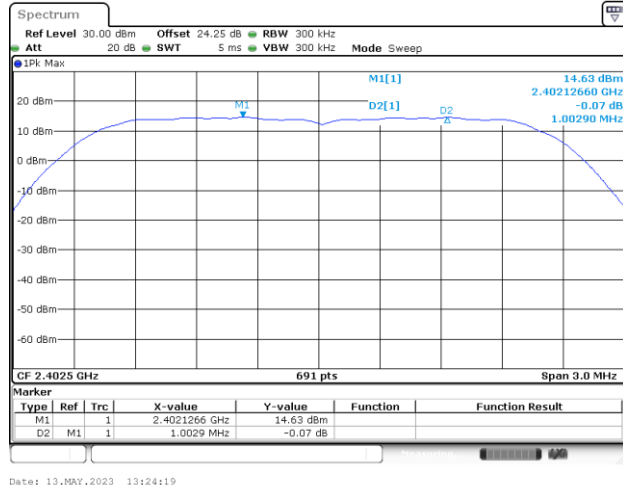


Date: 13.MAY.2023 11:57:37

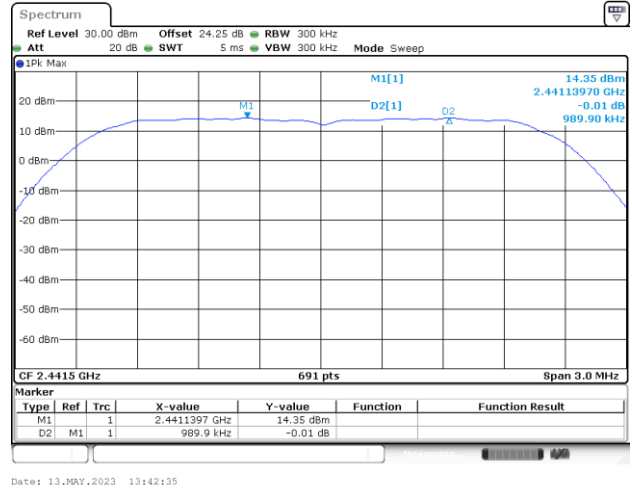


<2Mbps>

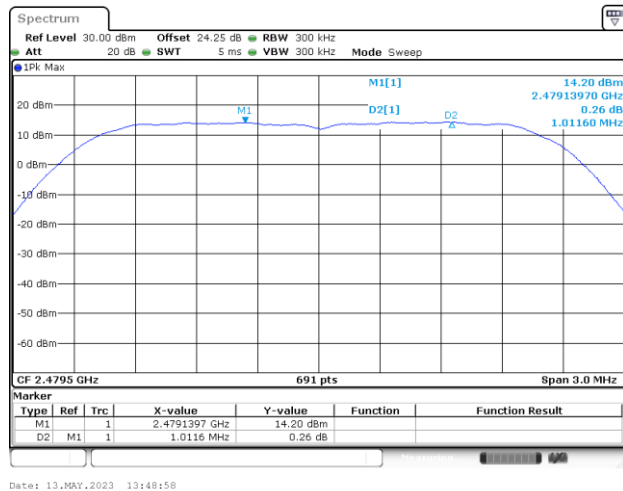
Channel Separation Plot on Channel 00 - 01



Channel Separation Plot on Channel 39 - 40



Channel Separation Plot on Channel 77 - 78

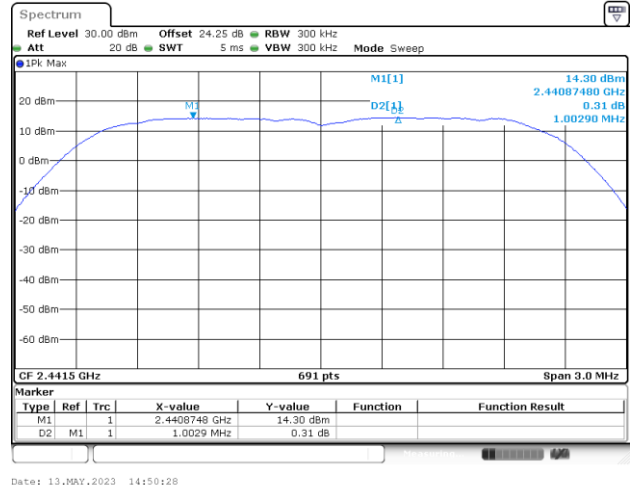
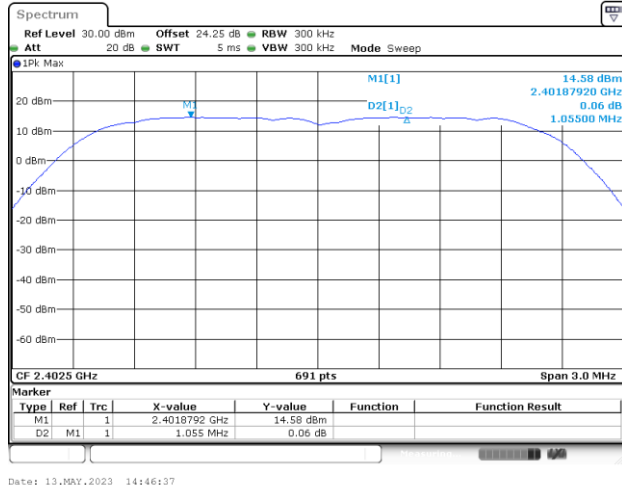




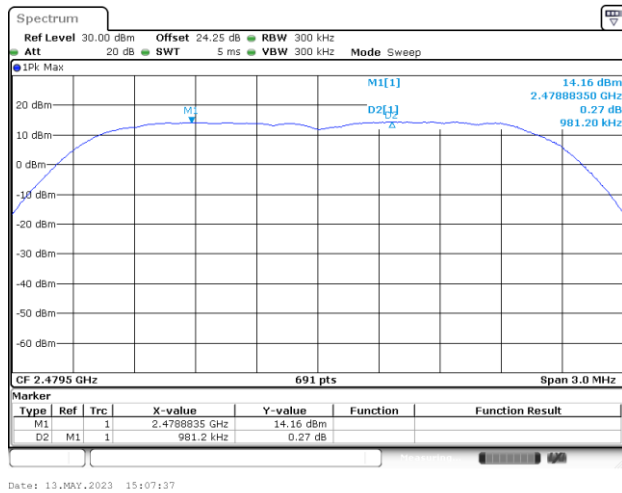
<3Mbps>

Channel Separation Plot on Channel 00 - 01

Channel Separation Plot on Channel 39 - 40

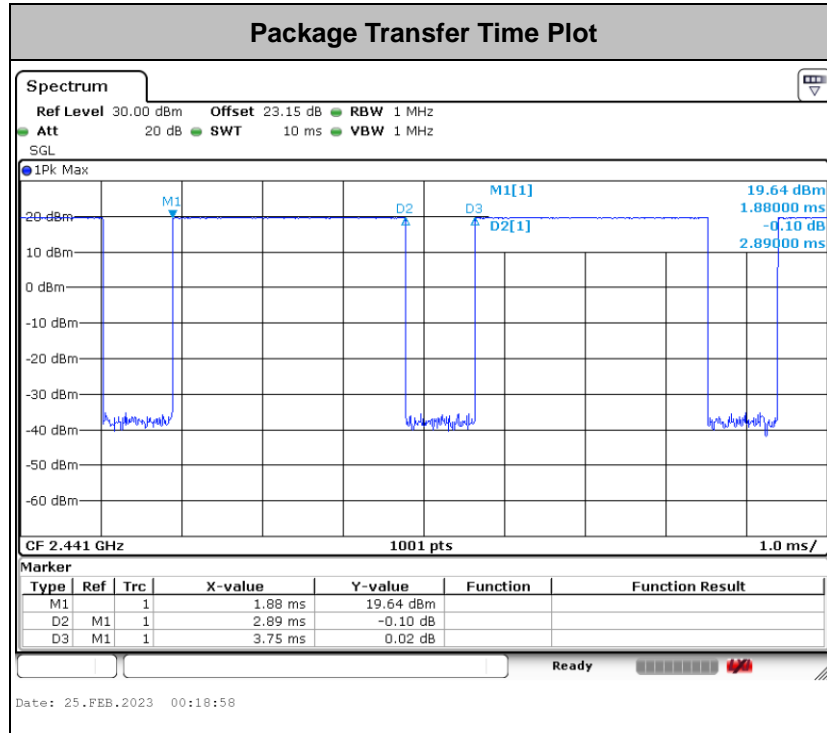


Channel Separation Plot on Channel 77 - 78





# Dwell Time



**Remark:**

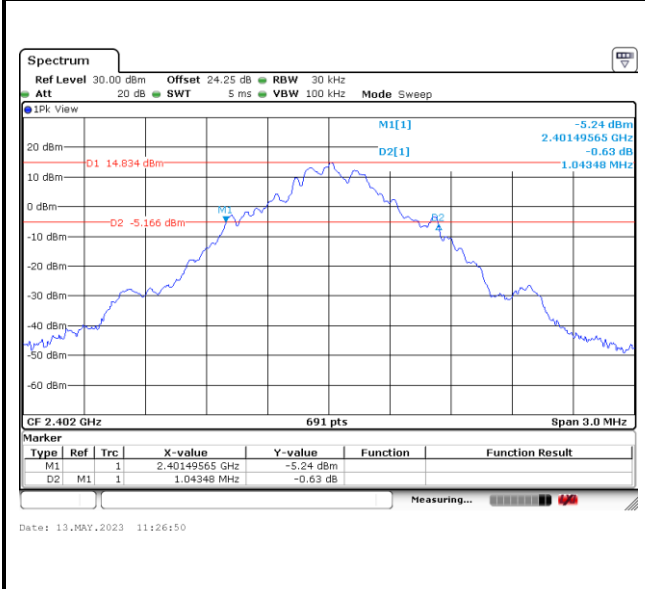
1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops.
2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time



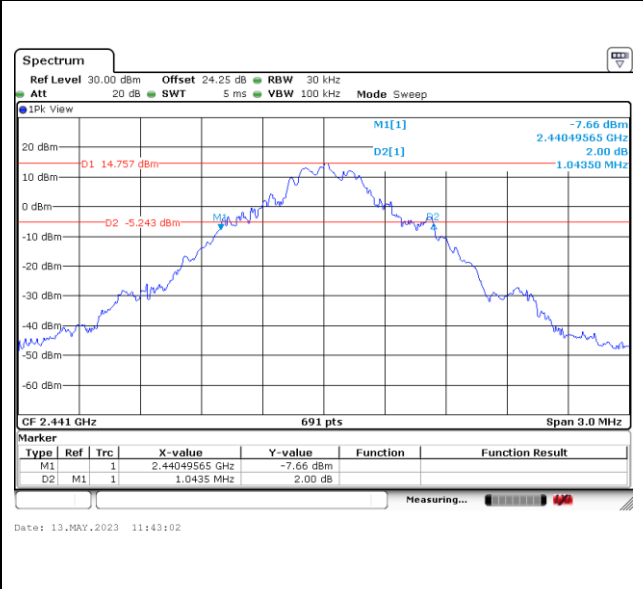
# 20dB Bandwidth

<1Mbps>

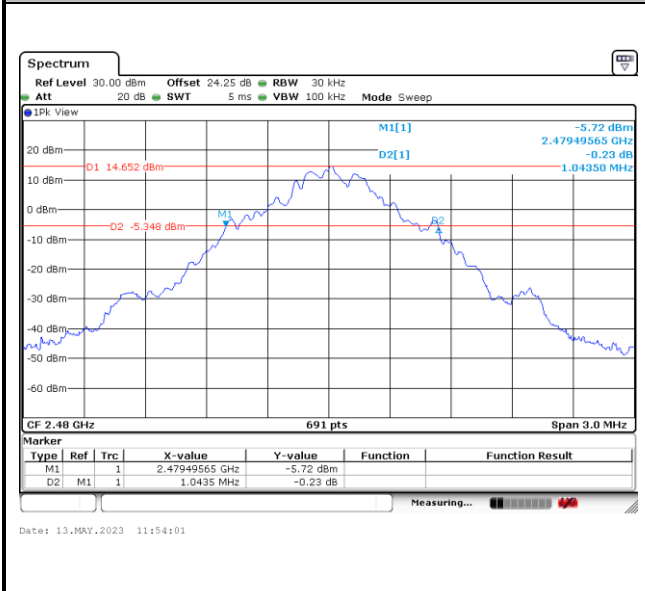
### 20 dB Bandwidth Plot on Channel 00



### 20 dB Bandwidth Plot on Channel 39



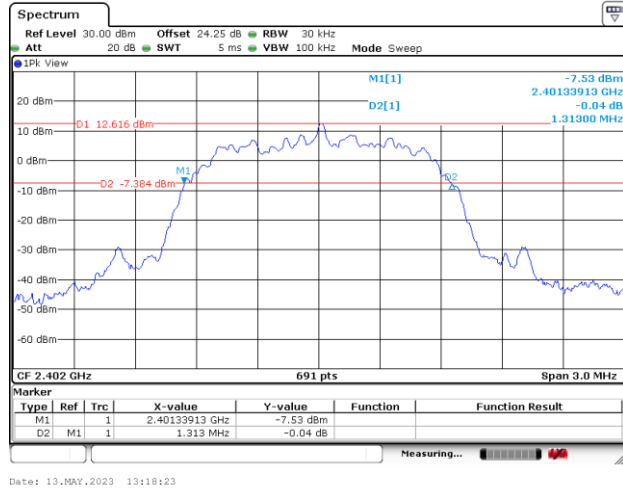
### 20 dB Bandwidth Plot on Channel 78





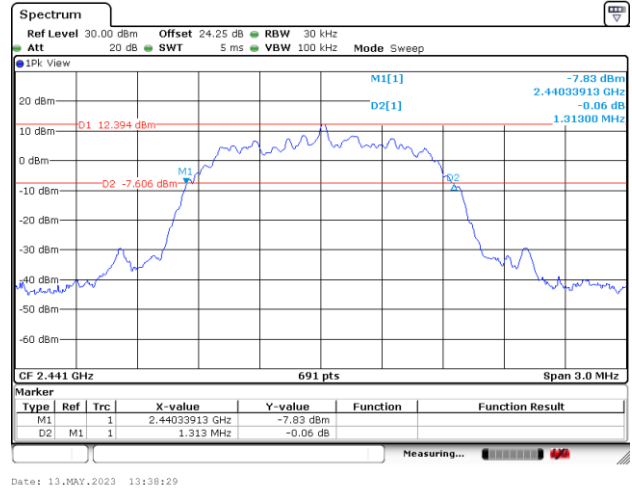
<2Mbps>

20 dB Bandwidth Plot on Channel 00



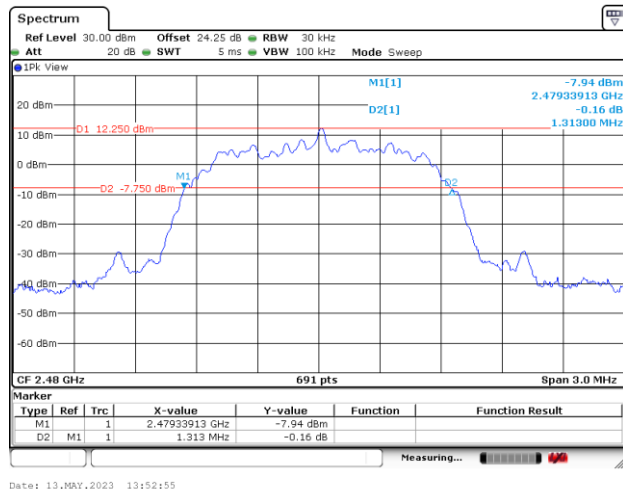
Date: 13.MAY.2023 13:18:23

20 dB Bandwidth Plot on Channel 39



Date: 13.MAY.2023 13:38:29

20 dB Bandwidth Plot on Channel 78

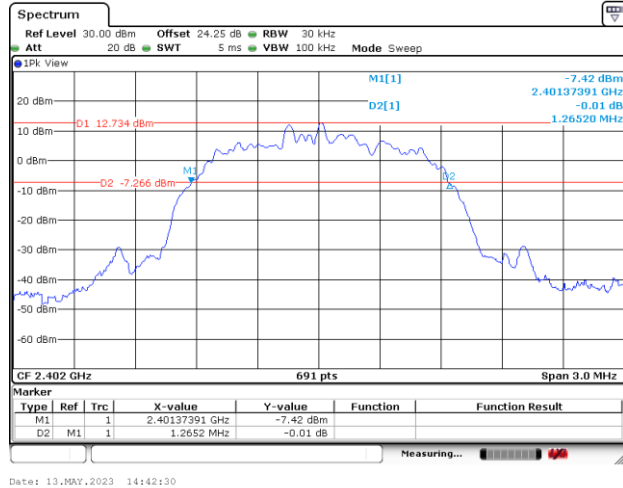


Date: 13.MAY.2023 13:52:55



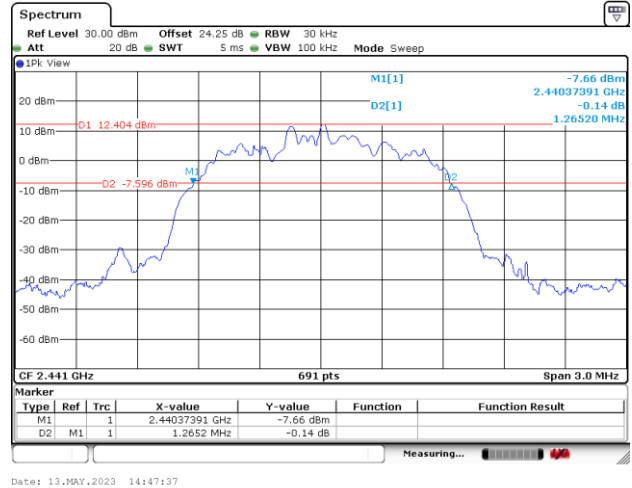
<3Mbps>

20 dB Bandwidth Plot on Channel 00



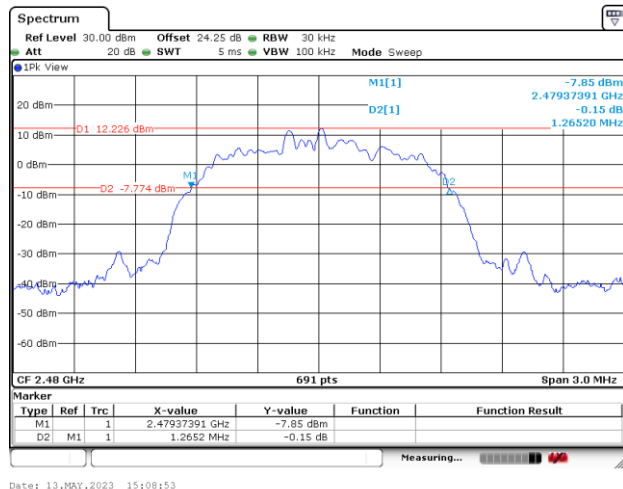
Date: 13.MAY.2023 14:42:30

20 dB Bandwidth Plot on Channel 39



Date: 13.MAY.2023 14:47:37

20 dB Bandwidth Plot on Channel 78



Date: 13.MAY.2023 15:08:53

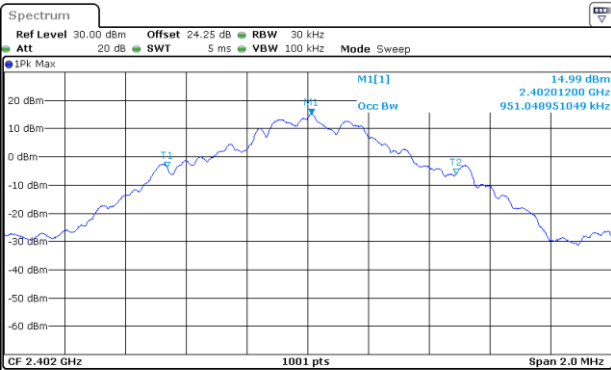




# 99% Occupied Bandwidth

<1Mbps>

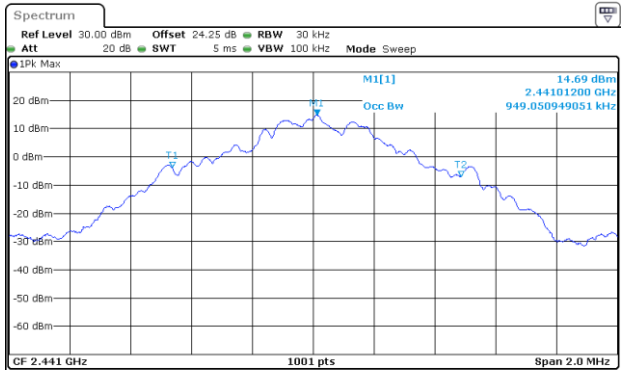
## 99% Occupied Bandwidth on Channel 00



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.402012 GHz	14.99 dBm		
T1	1		2.40153646 GHz	-3.76 dBm	Occ Bw	951.048951049 kHz
T2	1		2.40248751 GHz	-6.15 dBm		

Date: 13.MAY.2023 11:26:07

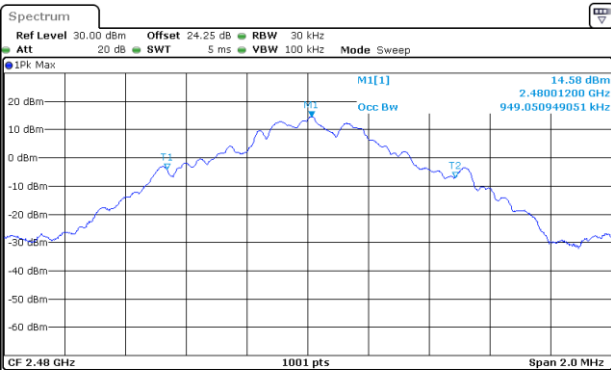
## 99% Occupied Bandwidth on Channel 39



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.441012 GHz	14.69 dBm		
T1	1		2.44053646 GHz	-3.92 dBm	Occ Bw	949.050949051 kHz
T2	1		2.44148551 GHz	-6.93 dBm		

Date: 13.MAY.2023 11:45:07

## 99% Occupied Bandwidth on Channel 78



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.480012 GHz	14.58 dBm		
T1	1		2.47953646 GHz	-4.10 dBm	Occ Bw	949.050949051 kHz
T2	1		2.48048551 GHz	-7.01 dBm		

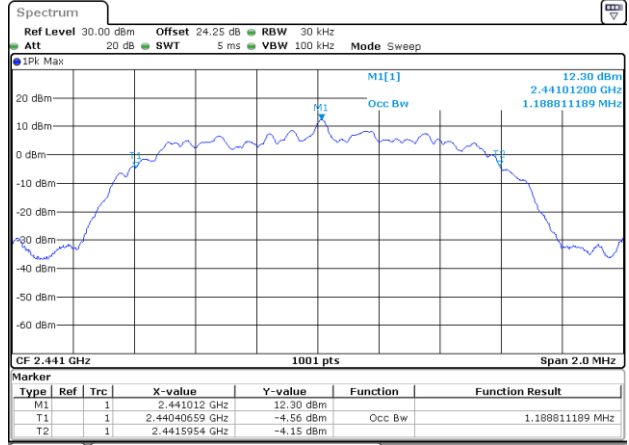
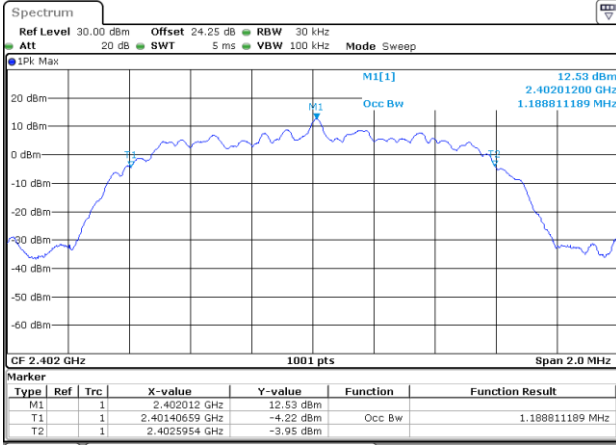
Date: 13.MAY.2023 11:54:44



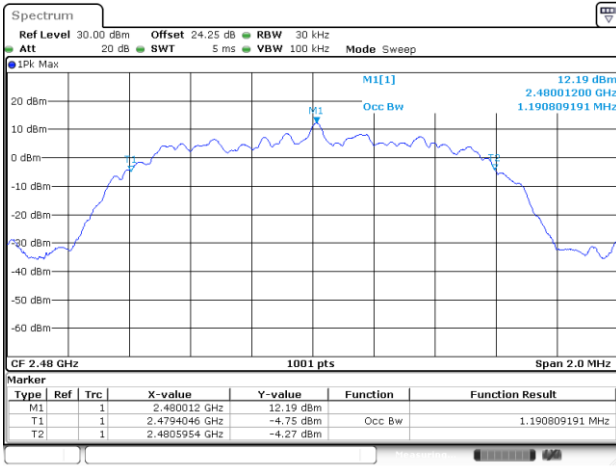
<2Mbps>

99% Occupied Bandwidth on Channel 00

99% Occupied Bandwidth on Channel 39



99% Occupied Bandwidth on Channel 78

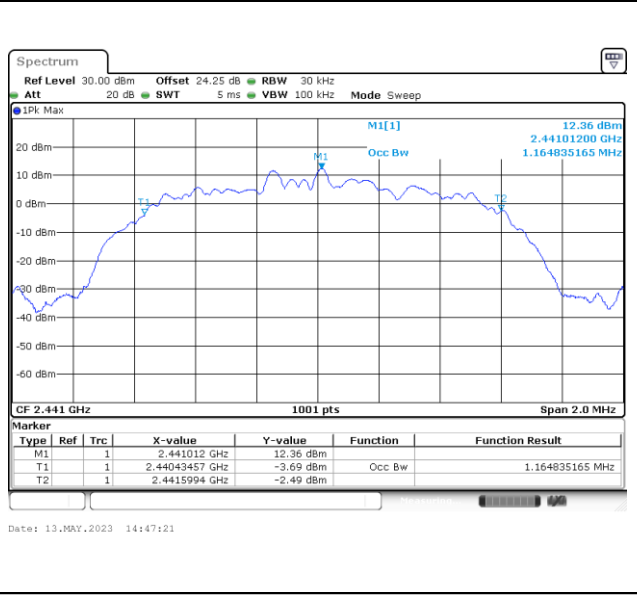
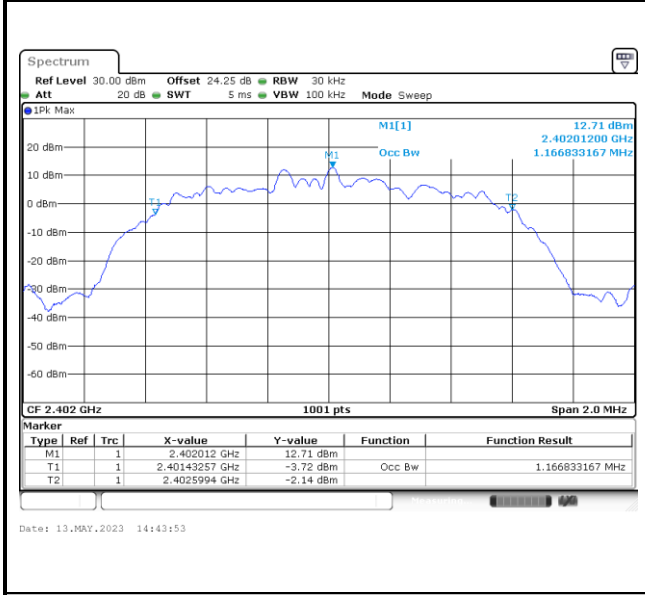




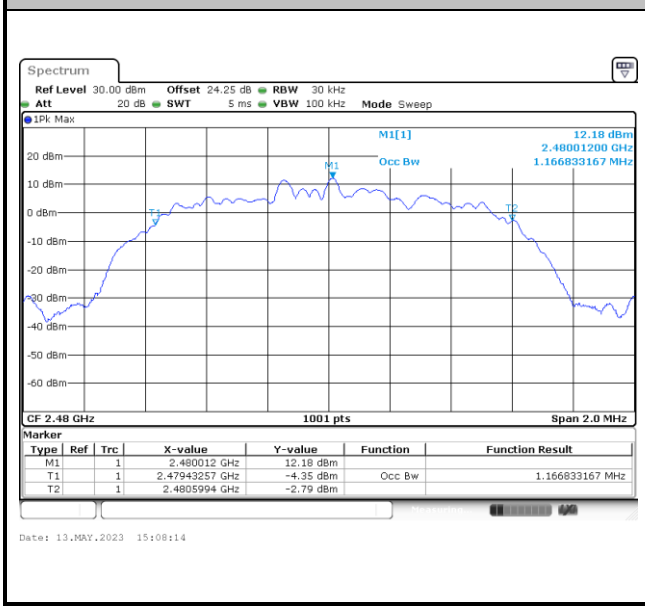
<3Mbps>

99% Occupied Bandwidth on Channel 00

99% Occupied Bandwidth on Channel 39



99% Occupied Bandwidth on Channel 78



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

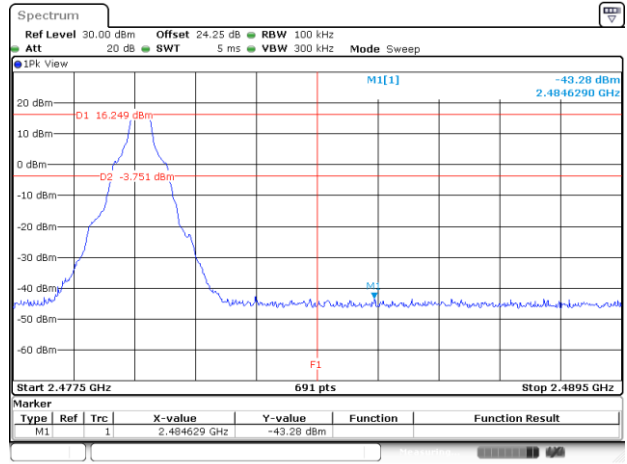
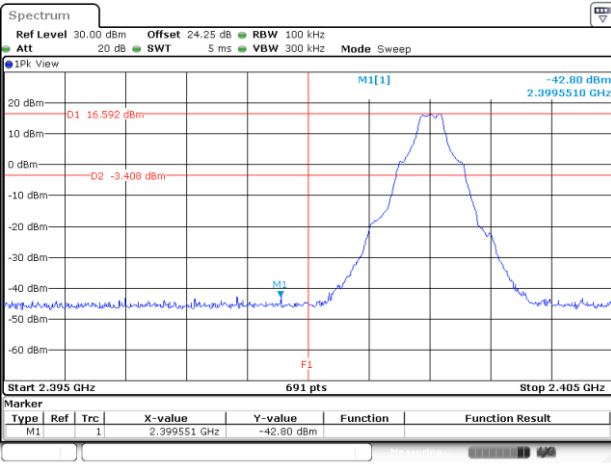


# Band Edges

<1Mbps>

Low Band Edge Plot on Channel 00

High Band Edge Plot on Channel 78



Date: 13.MAY.2023 11:26:40

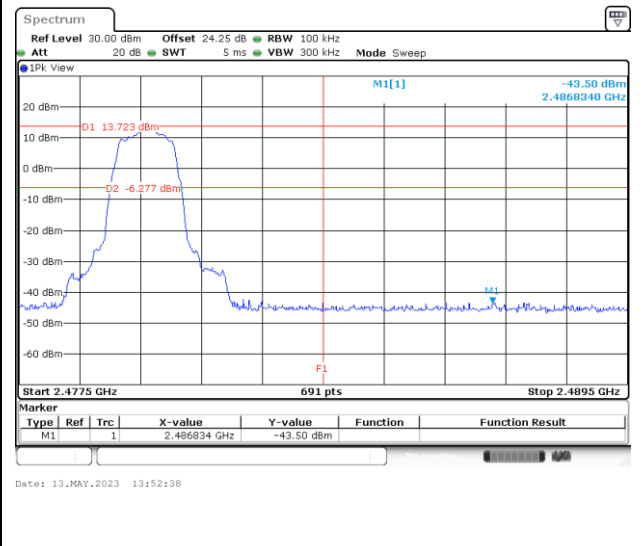
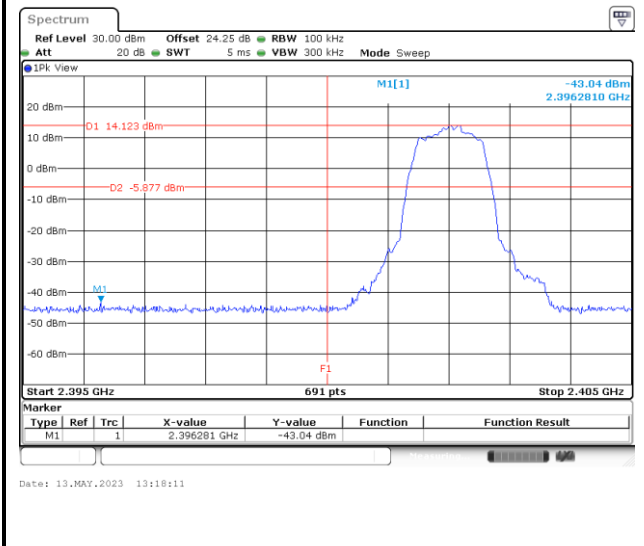
Date: 13.MAY.2023 11:54:26



<2Mbps>

Low Band Edge Plot on Channel 00

High Band Edge Plot on Channel 78

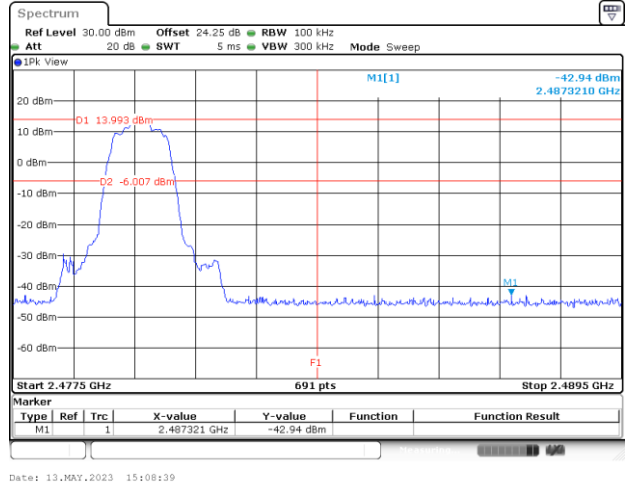
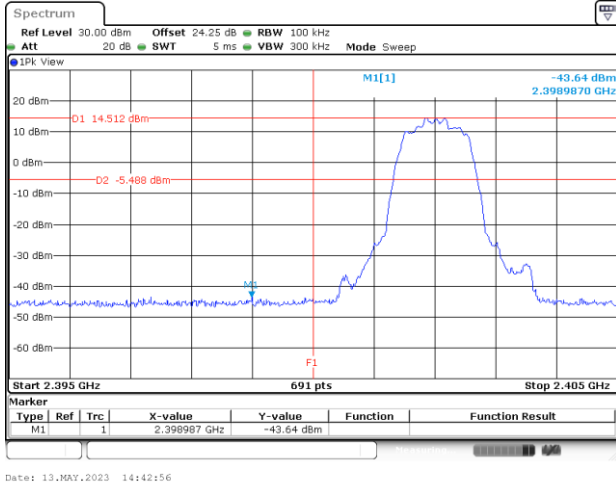




<3Mbps>

Low Band Edge Plot on Channel 00

High Band Edge Plot on Channel 78

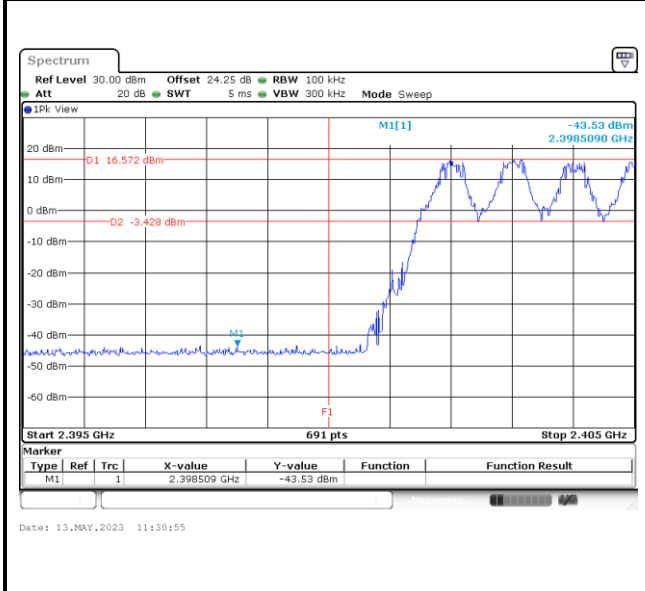




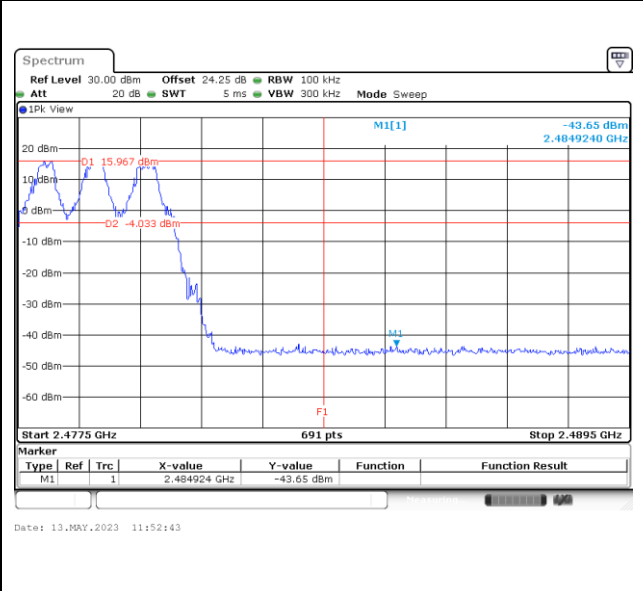
# Hopping Mode Band Edges

<1Mbps>

### Hopping Mode Low Band Edge Plot



### Hopping Mode High Band Edge Plot

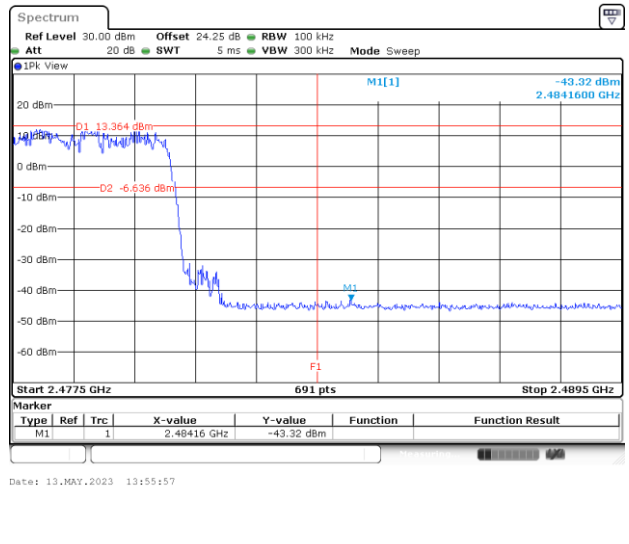
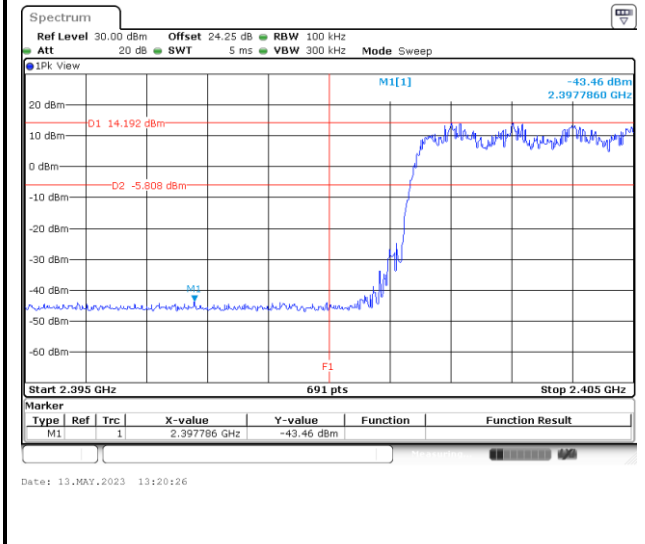




<2Mbps>

Hopping Mode Low Band Edge Plot

Hopping Mode High Band Edge Plot

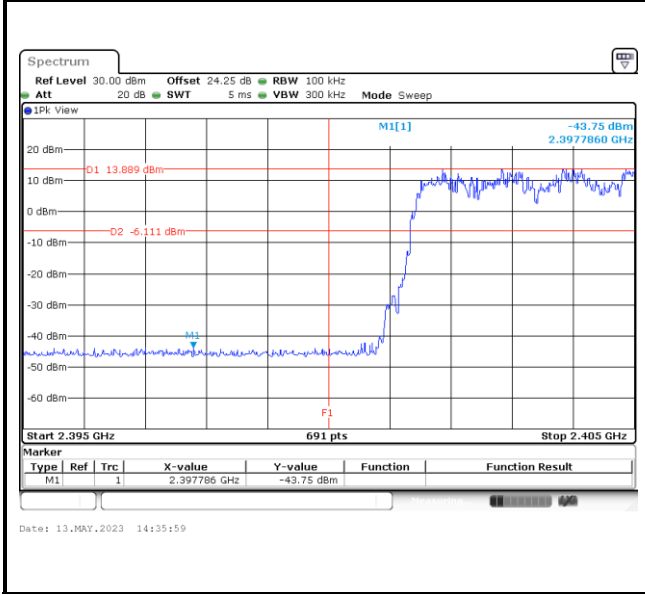




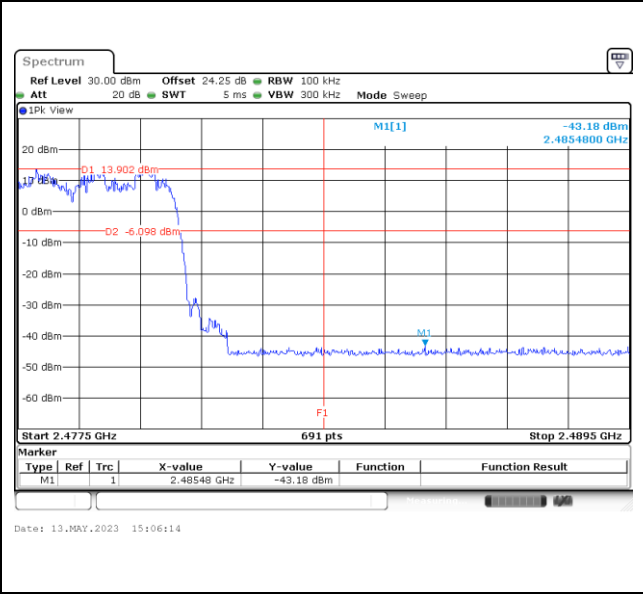


<3Mbps>

Hopping Mode Low Band Edge Plot



Hopping Mode High Band Edge Plot

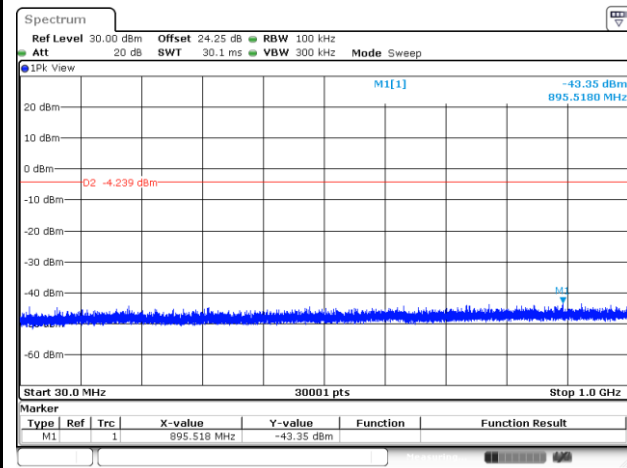




# Spurious Emission

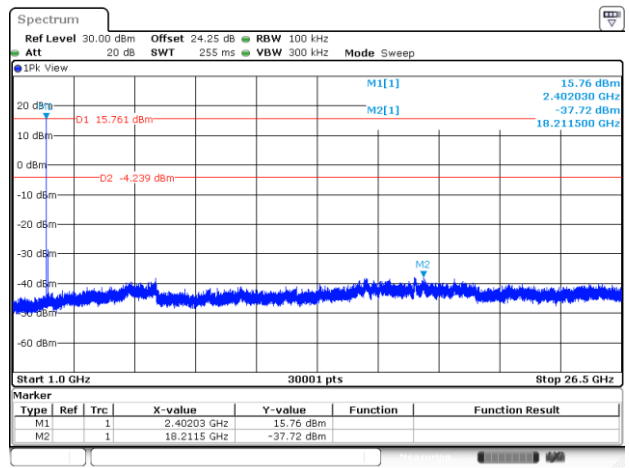
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### CSE Plot on Ch 00 between 30MHz ~ 1 GHz



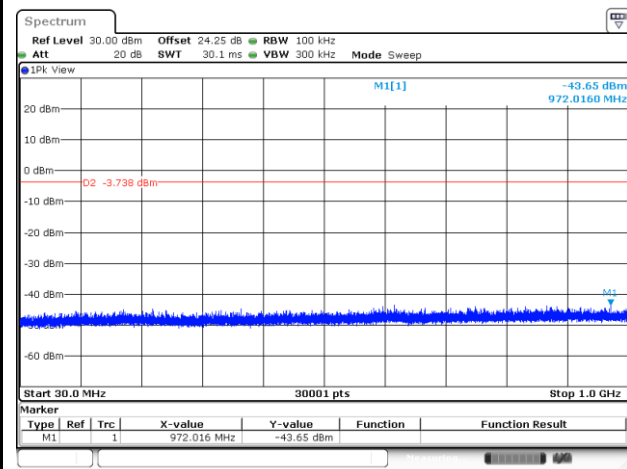
Date: 13.MAY.2023 11:27:49

### CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz



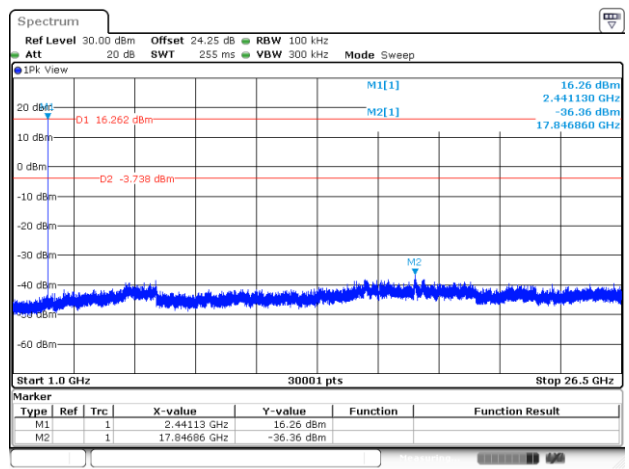
Date: 13.MAY.2023 11:27:21

### CSE Plot on Ch 39 between 30MHz ~ 1 GHz



Date: 13.MAY.2023 11:42:43

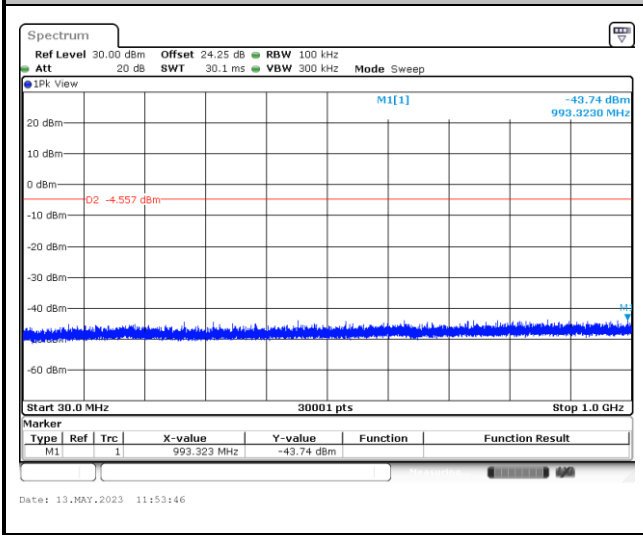
### CSE Plot on Ch 39 between 1 GHz ~ 26.5 GHz



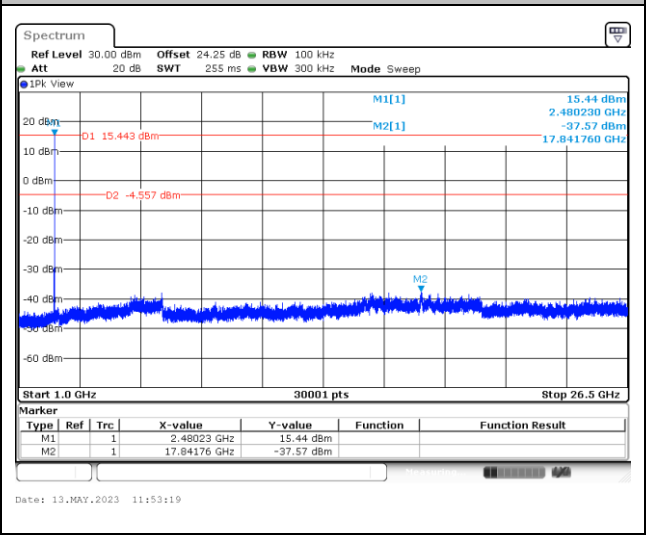
Date: 13.MAY.2023 11:42:18



CSE Plot on Ch 78 between 30MHz ~ 1 GHz



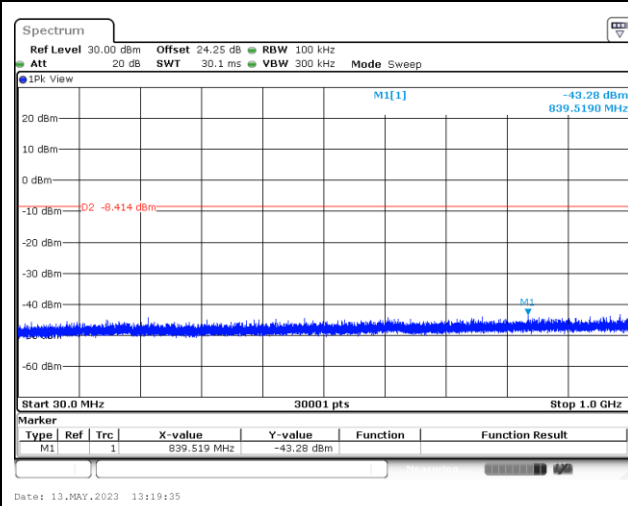
CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz



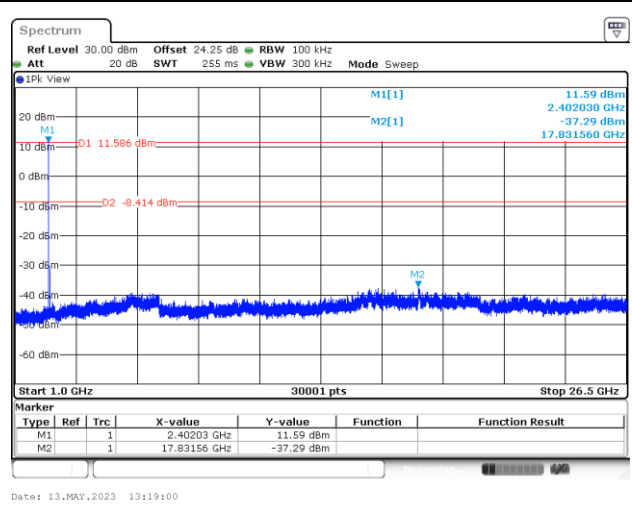


<2Mbps>

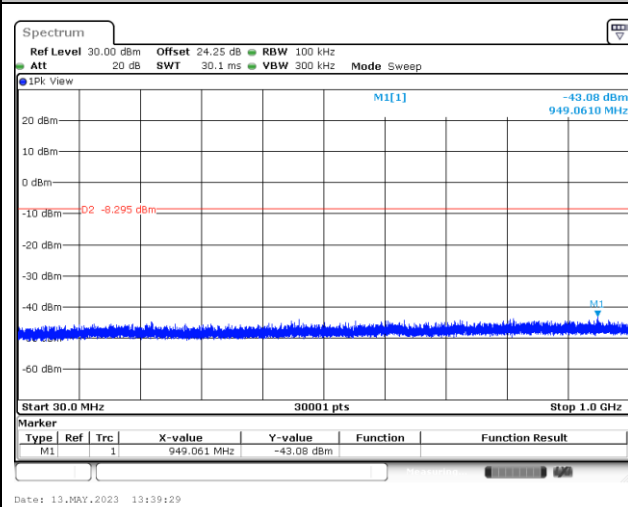
CSE Plot on Ch 00 between 30MHz ~ 1 GHz



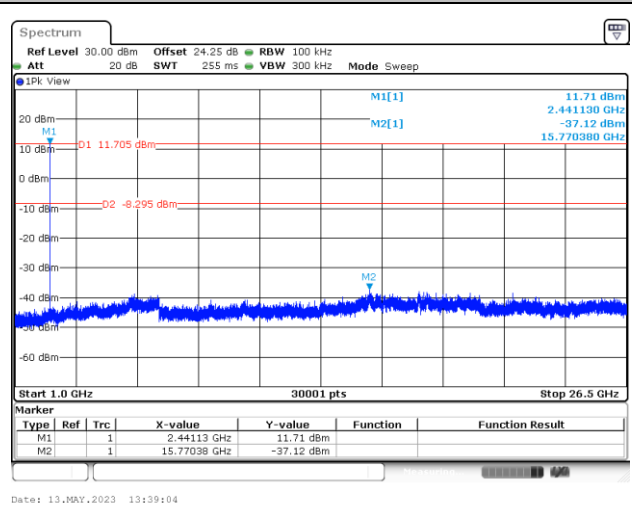
CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz



CSE Plot on Ch 39 between 30MHz ~ 1 GHz

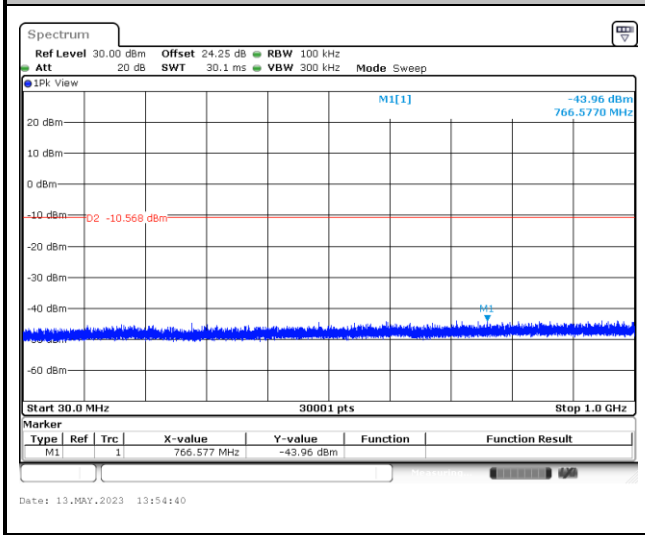


CSE Plot on Ch 39 between 1 GHz ~ 26.5 GHz

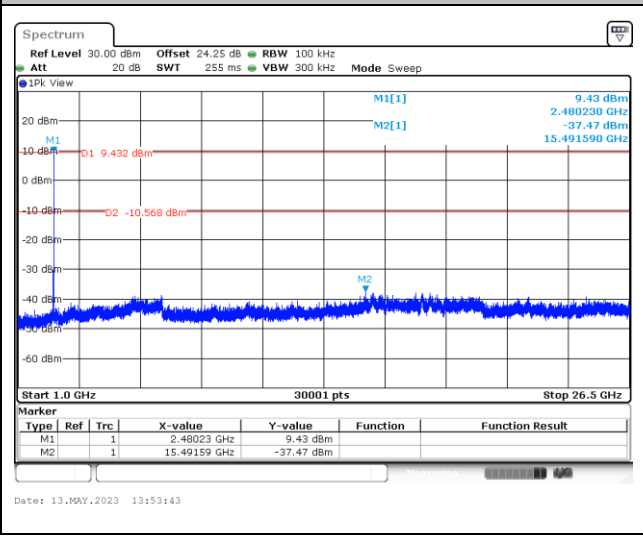




CSE Plot on Ch 78 between 30MHz ~ 1 GHz



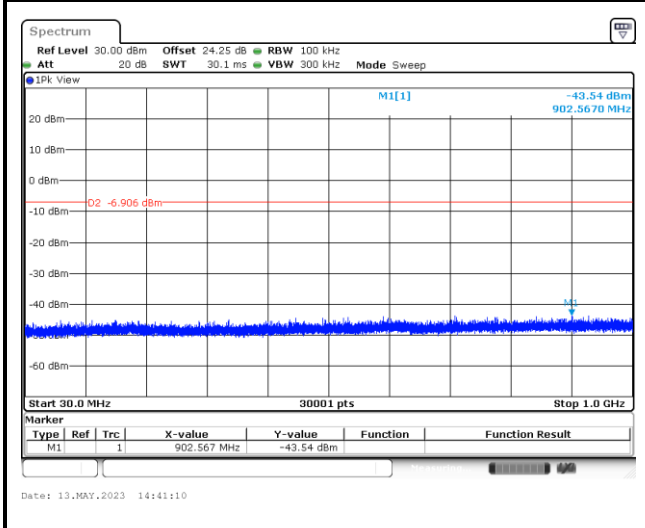
CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz



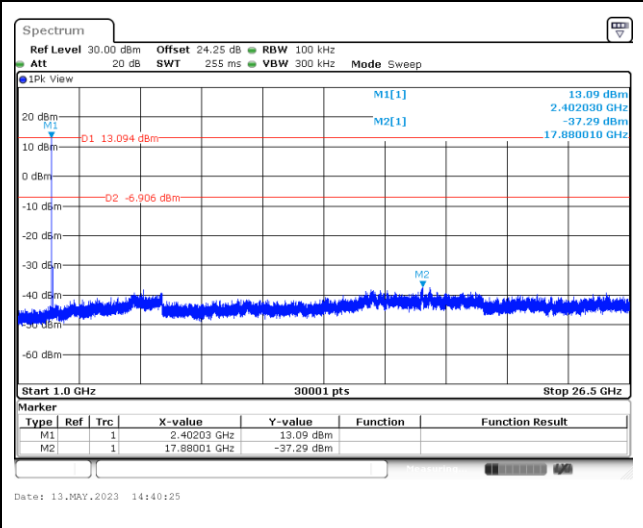


<3Mbps>

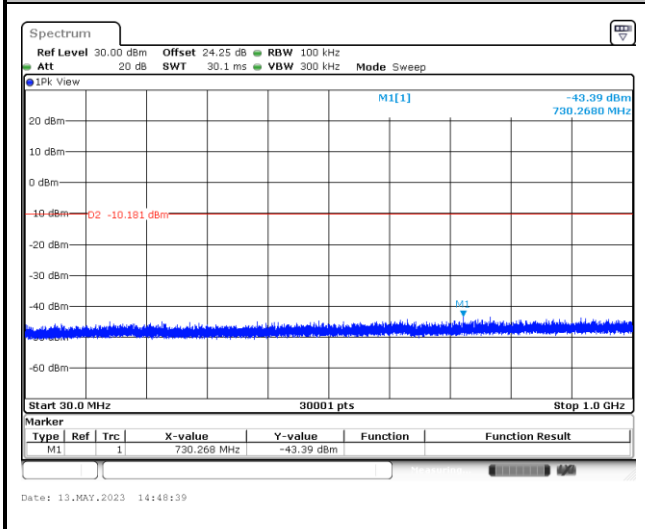
CSE Plot on Ch 00 between 30MHz ~ 1 GHz



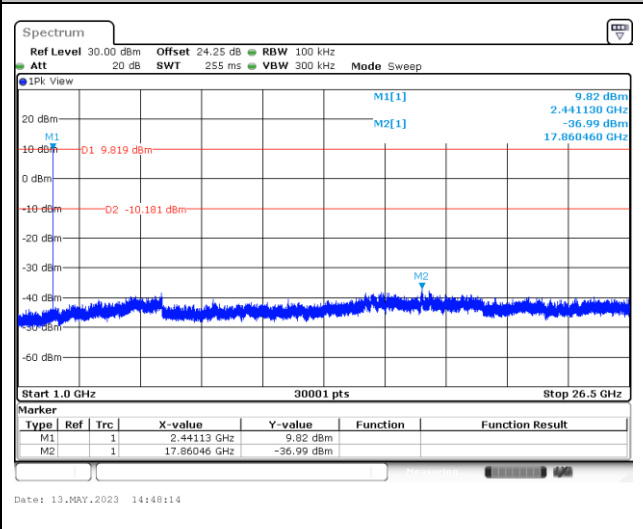
CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz



CSE Plot on Ch 39 between 30MHz ~ 1 GHz

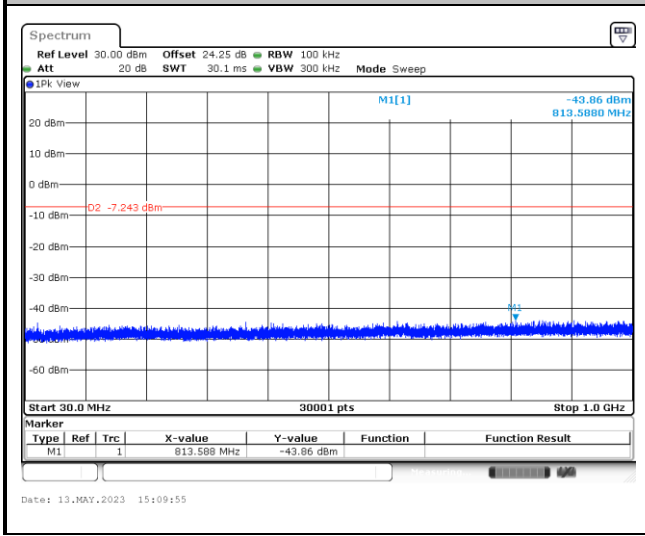


CSE Plot on Ch 39 between 1 GHz ~ 26.5 GHz





CSE Plot on Ch 78 between 30MHz ~ 1 GHz



CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz

