

## **U6-Enterprise WiFi Annex**

## b Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
RF output power	2412.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000	24.0	20.000000	PASS
Power Spectral Density	2412.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2412.000	24.0	20.000000	PASS
Tx Spurious Emission	2412.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	24.0	20.000000	PASS
Power Spectral Density	2437.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	24.0	20.000000	PASS
Tx Spurious Emission	2437.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000	24.0	20.000000	PASS
Power Spectral Density	2462.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2462.000	24.0	20.000000	PASS
Tx Spurious Emission	2462.000	24.0	20.000000	PASS

## RF output power (2412 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	19.5	30.0	19.5	55.052	PASS

## OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

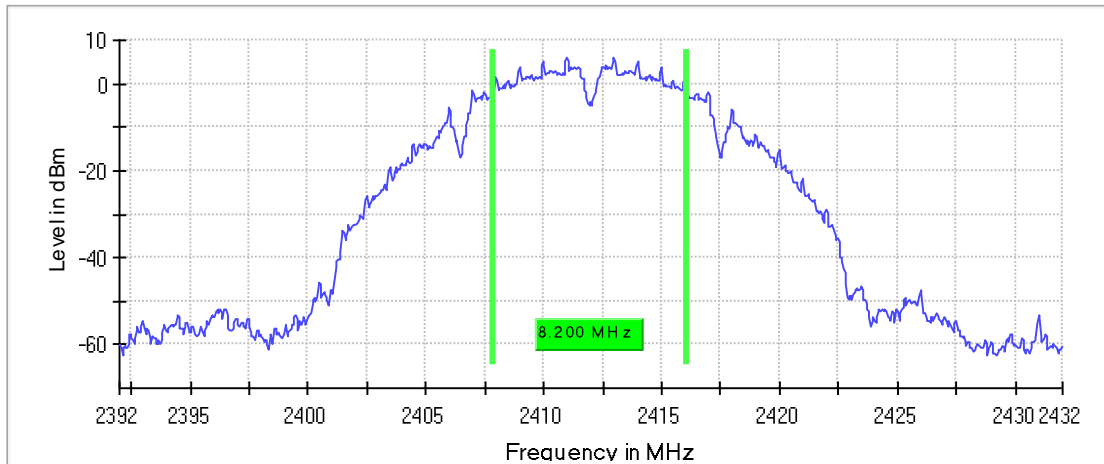
## Minimum Emission Bandwidth 6 dB (2412 MHz; 24.000 dBm; 20 MHz)

### 6 dB Bandwidth

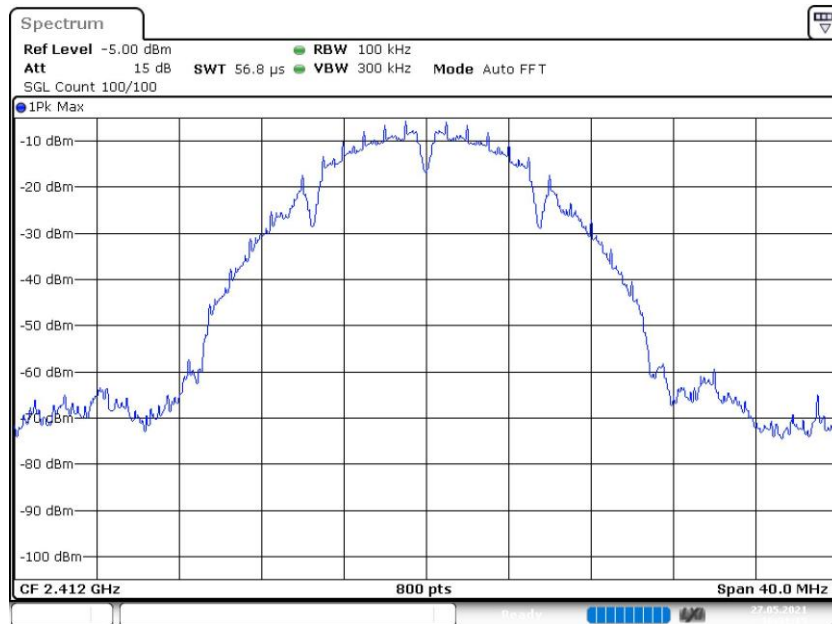
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	8.200000	0.500000	---	2407.875000	2416.075000

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	6.0	PASS

6 dB Bandwidth



Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	56.836 $\mu$ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

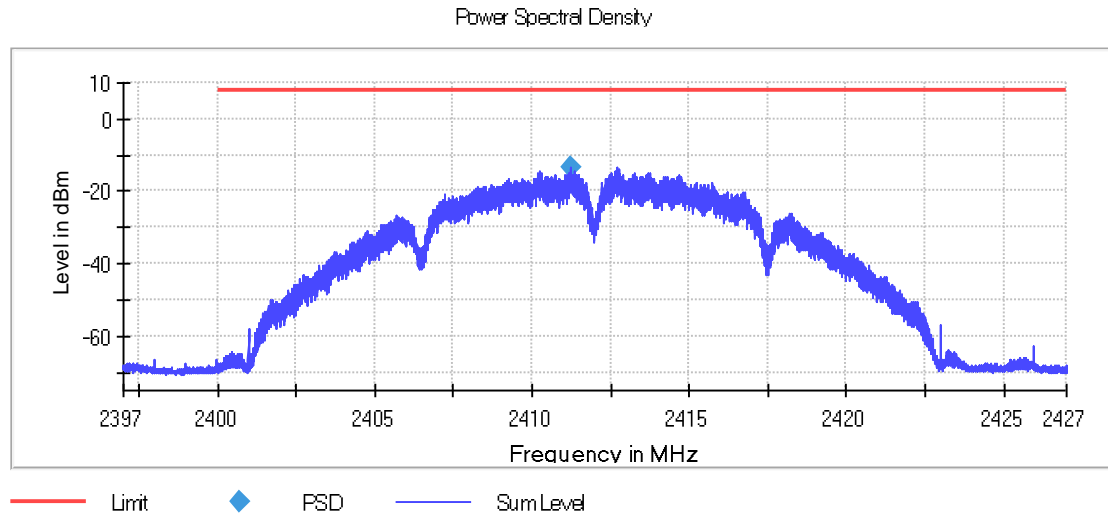
## Power Spectral Density (2412 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2411.244750	-13.575	8.0	PASS

### Ports

Port	State
1	used
2	used



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.42700 GHz	2.42700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
SweepTime	4.424 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

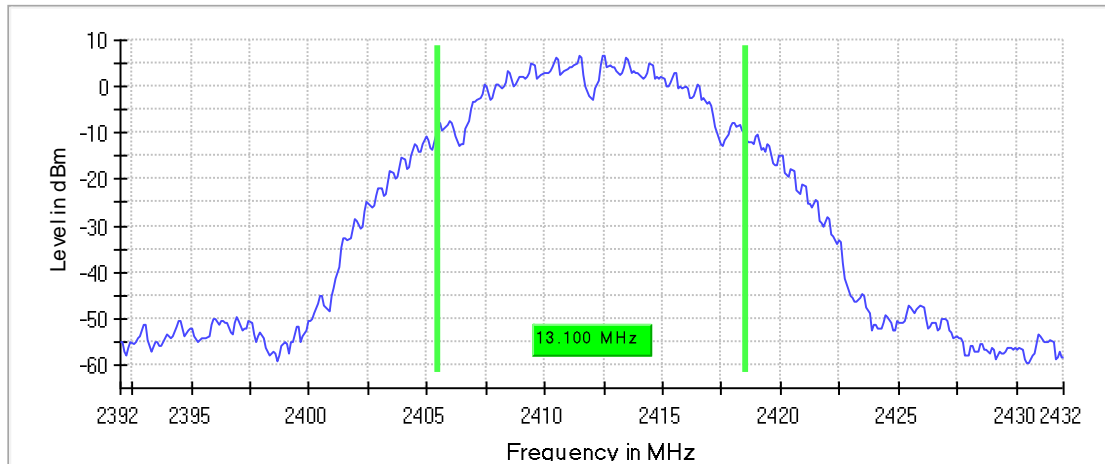
## Occupied Channel Bandwidth 99% (2412 MHz; 24.000 dBm; 20 MHz)

### 99 % Bandwidth

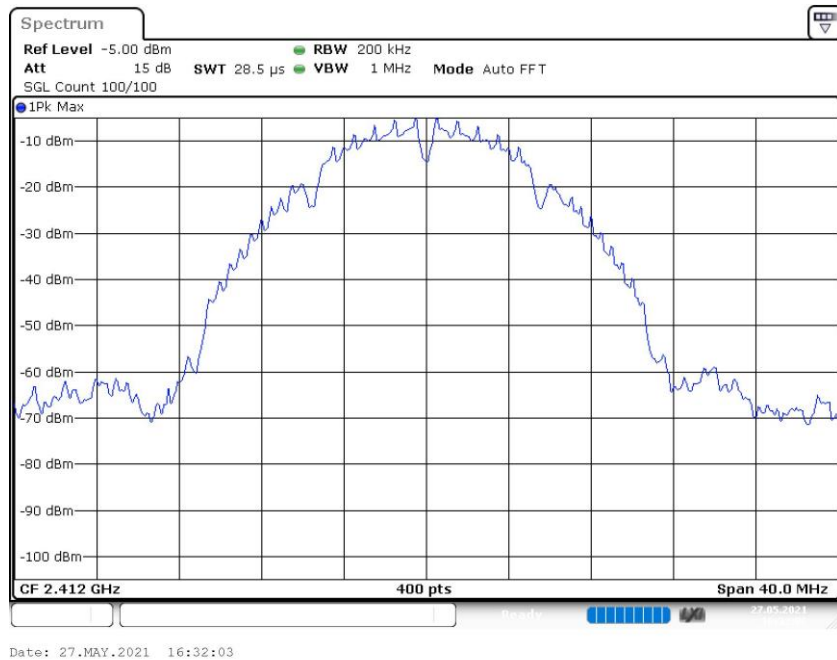
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	13.100000	---	---	2405.450000	2418.550000

DUT Frequency (MHz)	Result
2412.000000	PASS

99 %Bandwidth



Bandwidth



## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	28.477 μs	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## Tx Spurious Emission (2412 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Result
2412.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

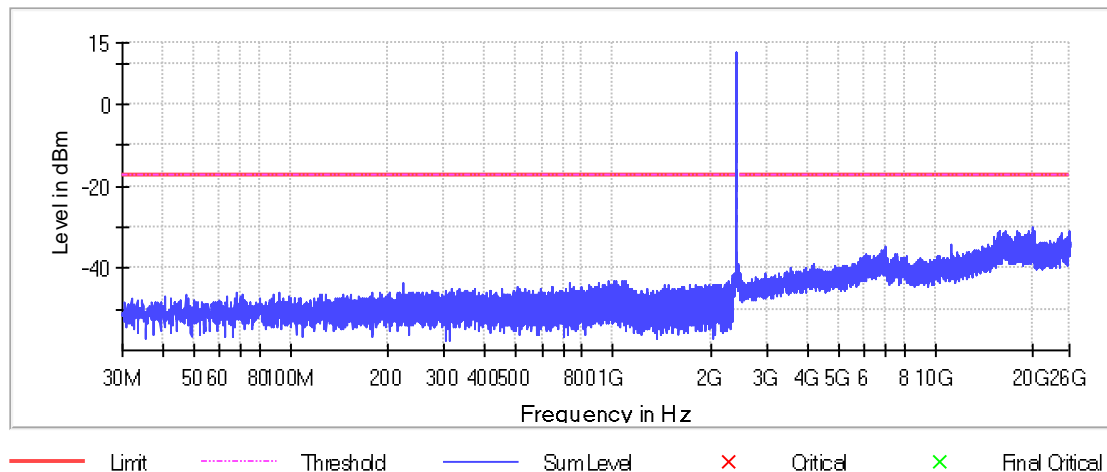
### Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
19890.677705	-29.9	12.8	-17.2
15799.669440	-30.8	13.6	-17.2
25844.575490	-30.9	13.7	-17.2
17876.405448	-30.9	13.7	-17.2
19534.266890	-30.9	13.7	-17.2
20252.967462	-31.0	13.8	-17.2
15885.648956	-31.0	13.8	-17.2
16439.739172	-31.1	13.9	-17.2
18224.732719	-31.2	14.0	-17.2
18215.179440	-31.2	14.0	-17.2
19903.905323	-31.2	14.0	-17.2
15898.876574	-31.3	14.1	-17.2
19865.692205	-31.3	14.2	-17.2
19906.844794	-31.4	14.2	-17.2
19882.594161	-31.4	14.3	-17.2

### Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



## Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	32001	~ 46400
Sweptime	32.100 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

## Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2670	~ 2670
Sweptime	151.563 $\mu$ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

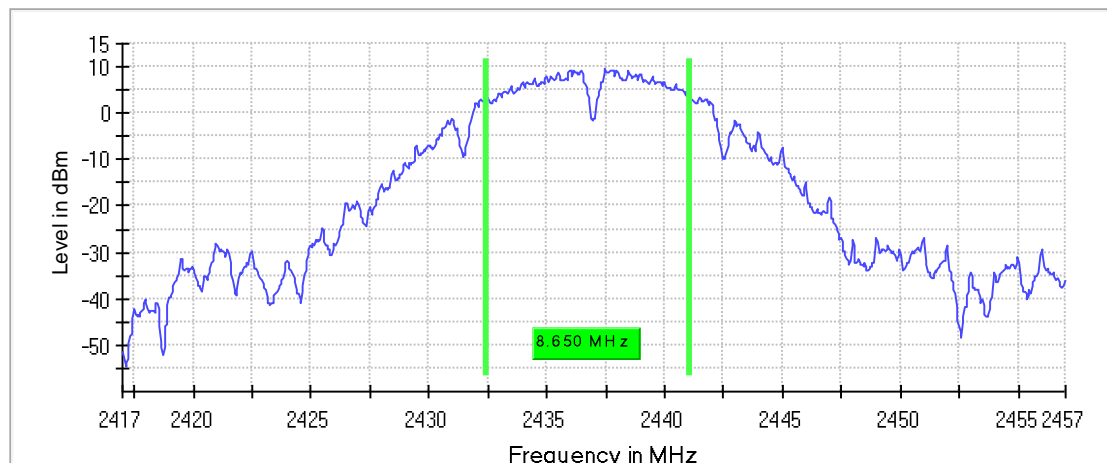
## Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 20 MHz)

### 6 dB Bandwidth

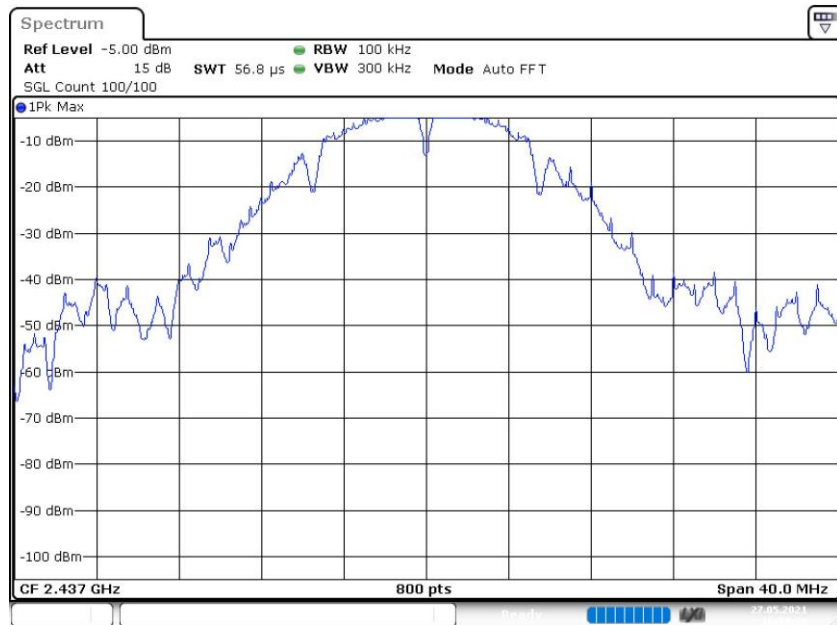
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	8.650000	0.500000	---	2432.425000	2441.075000

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	9.6	PASS

6 dB Bandwidth



Bandwidth



Date: 27.MAY.2021 16:39:50

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	56.836 μs	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## Power Spectral Density (2437 MHz; 24.000 dBm; 20 MHz)

### Result

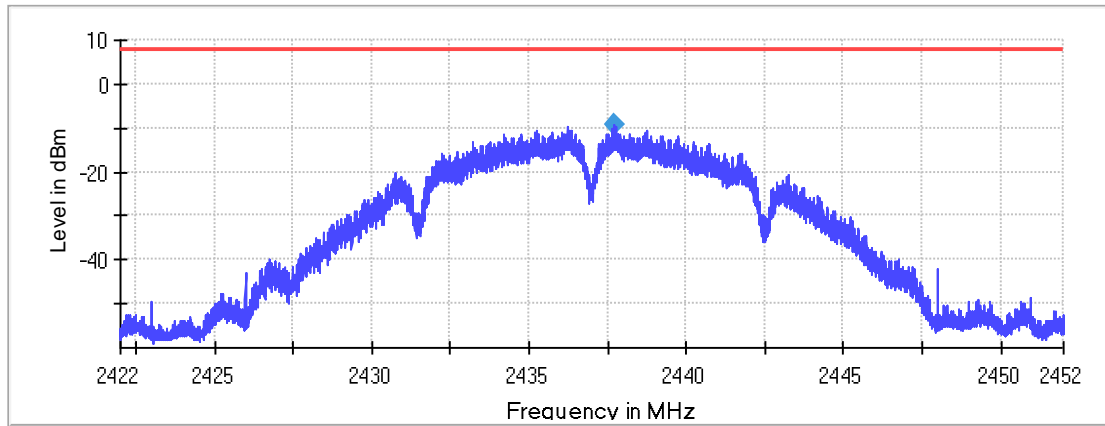
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2437.000000	2437.723750	-9.334	8.0	PASS

## Ports

Port	State
1	used
2	used



Power Spectral Density



— Limit    ◆ PSD    — SumLevel

**Measurement**

Setting	Instrument Value	Target Value
Start Frequency	2.42200 GHz	2.42200 GHz
Stop Frequency	2.45200 GHz	2.45200 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
Sweeptime	4.424 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
Sweeptype	FFT	AUTO
Preamp	off	off

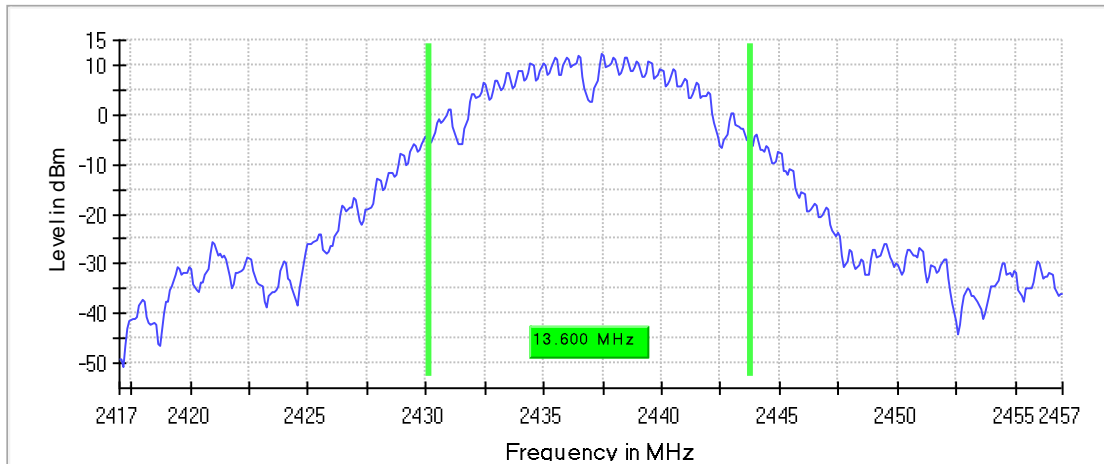
**Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 20 MHz)**

**99 % Bandwidth**

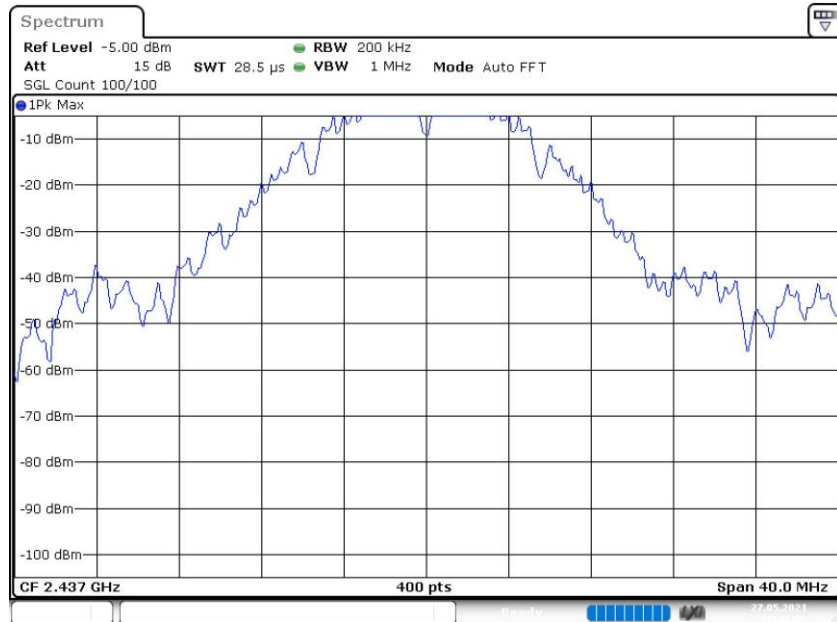
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	13.600000	---	---	2430.150000	2443.750000

DUT Frequency (MHz)	Result
2437.000000	PASS

99 %Bandwidth



Bandwidth



Date: 27.MAY.2021 16:41:02

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.41700 GHz	2.41700 GHz
Stop Frequency	2.45700 GHz	2.45700 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 $\mu$ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## Tx Spurious Emission (2437 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Result
2437.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

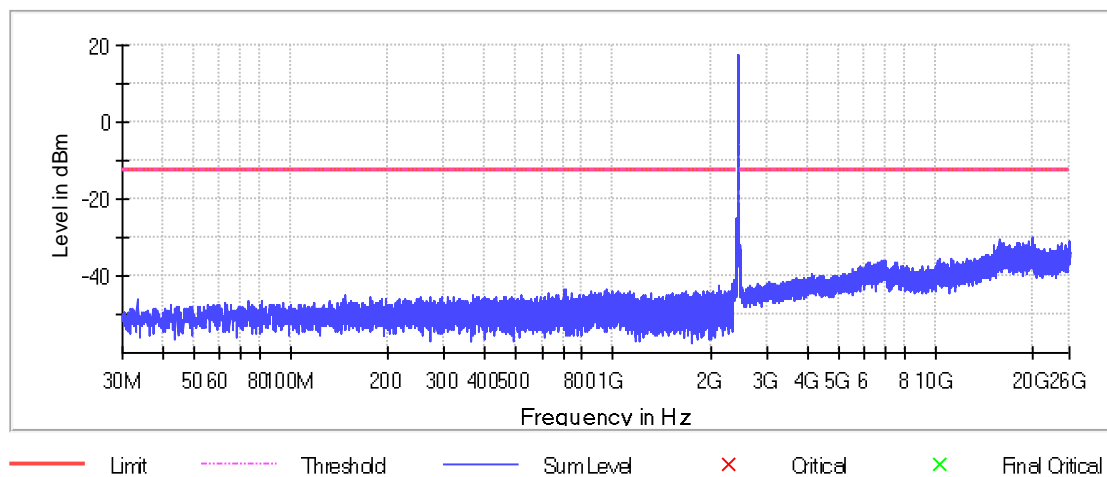
### Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
19878.184955	-29.9	17.5	-12.4
19881.859293	-29.9	17.5	-12.4
19884.798764	-30.4	18.1	-12.4
15842.291764	-30.6	18.3	-12.4
19557.047788	-30.8	18.4	-12.4
19887.003367	-30.8	18.4	-12.4
15857.723985	-30.8	18.5	-12.4
19909.049397	-30.8	18.5	-12.4
25829.143269	-31.0	18.6	-12.4
25967.298389	-31.1	18.7	-12.4
15801.874043	-31.3	18.9	-12.4
17894.777140	-31.3	18.9	-12.4
18207.830763	-31.3	18.9	-12.4
19864.957337	-31.3	18.9	-12.4
16156.080255	-31.3	19.0	-12.4

### Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



## Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	32001	~ 46400
Sweptime	32.100 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

## Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2670	~ 2670
Sweptime	151.563 $\mu$ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

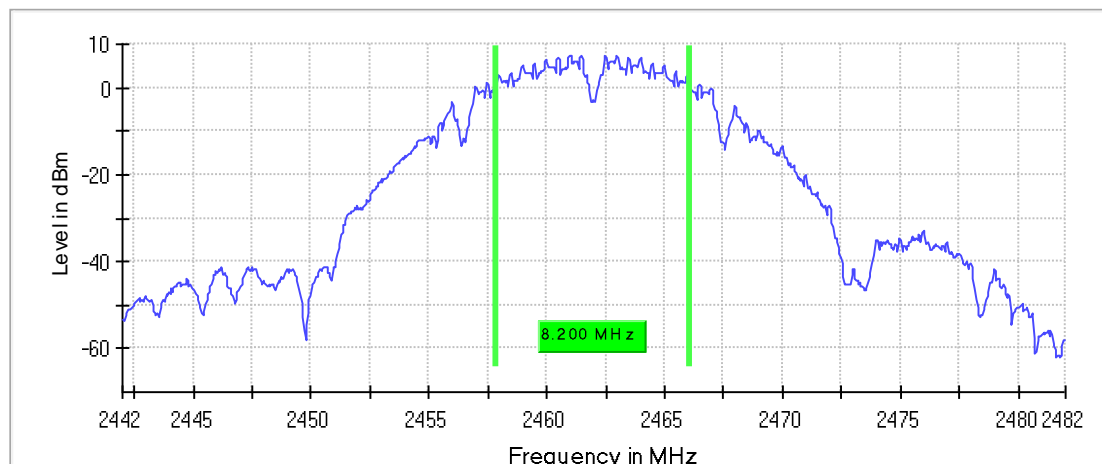
## Minimum Emission Bandwidth 6 dB (2462 MHz; 24.000 dBm; 20 MHz)

### 6 dB Bandwidth

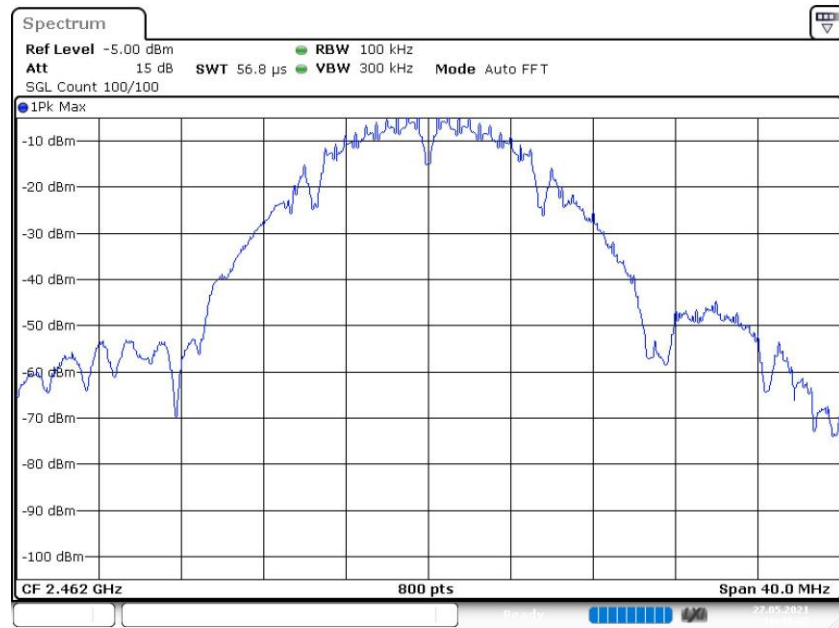
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	8.200000	0.500000	---	2457.875000	2466.075000

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	7.5	PASS

6 dB Bandwidth



## Bandwidth



## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	56.836 μs	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## Power Spectral Density (2462 MHz; 24.000 dBm; 20 MHz)

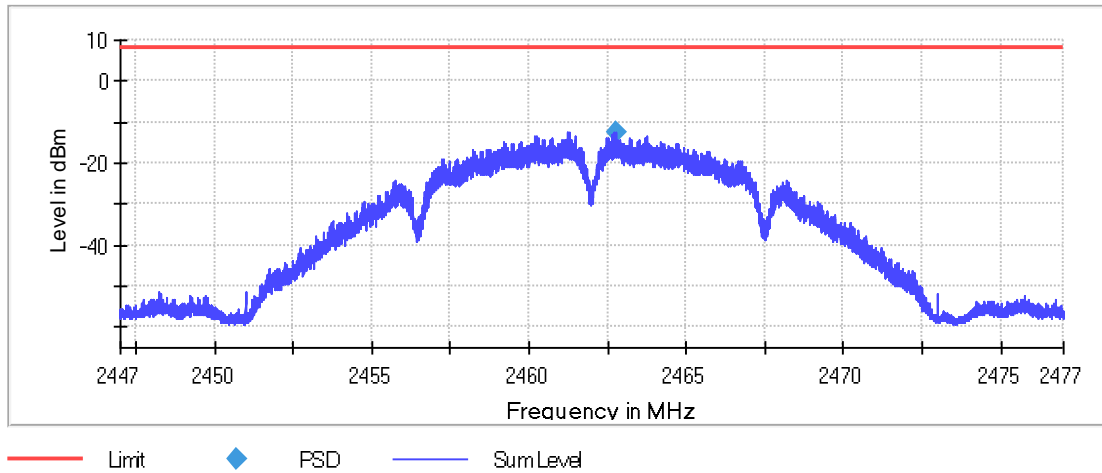
### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2462.000000	2462.746250	-12.272	8.0	PASS

## Ports

Port	State
1	used
2	used

Power Spectral Density



### Measurement

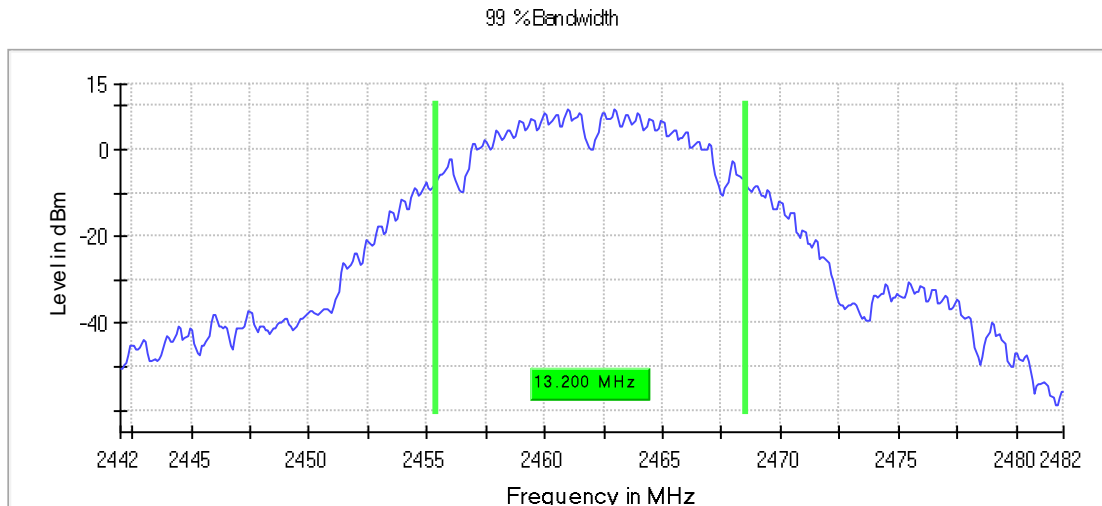
Setting	Instrument Value	Target Value
Start Frequency	2.44700 GHz	2.44700 GHz
Stop Frequency	2.47700 GHz	2.47700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
Sweeptime	4.424 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

**Occupied Channel Bandwidth 99% (2462 MHz; 24.000 dBm; 20 MHz)**

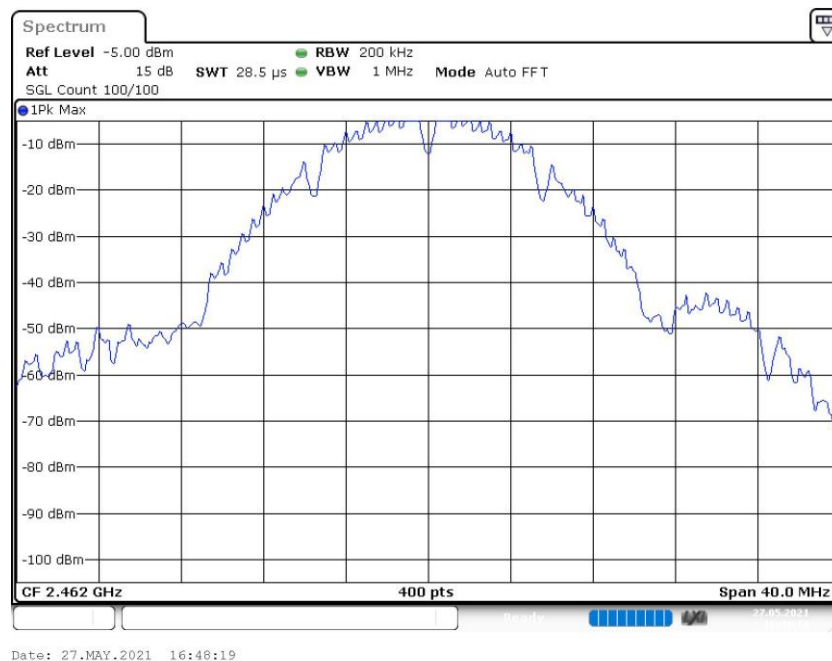
### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	13.200000	---	---	2455.350000	2468.550000

DUT Frequency (MHz)	Result
2462.000000	PASS



### Bandwidth



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44200 GHz	2.44200 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	28.477 $\mu$ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## Tx Spurious Emission (2462 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Result
2462.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

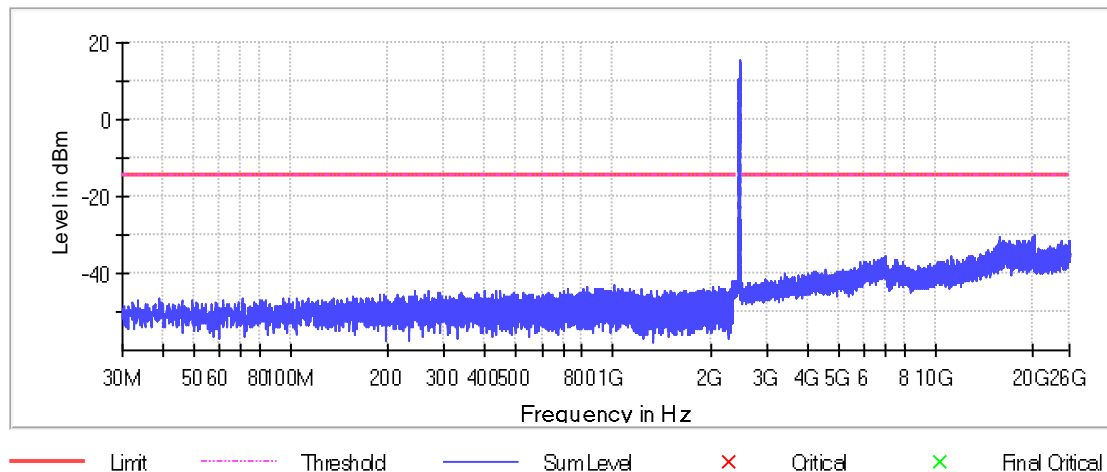
### Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
20233.860903	-30.2	15.5	-14.7
15818.041132	-30.6	15.9	-14.7
19919.337544	-30.7	16.0	-14.7
19905.375059	-31.0	16.3	-14.7
19898.761250	-31.0	16.3	-14.7
19930.360559	-31.2	16.5	-14.7
17905.800155	-31.3	16.6	-14.7
25934.229344	-31.4	16.7	-14.7
17880.079787	-31.4	16.7	-14.7
15890.058162	-31.4	16.7	-14.7
16207.520992	-31.5	16.8	-14.7
25988.609551	-31.5	16.8	-14.7
15809.222720	-31.5	16.8	-14.7
25914.387918	-31.5	16.8	-14.7
24579.868246	-31.5	16.8	-14.7

### Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious





## Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	32001	~ 46400
Sweeptime	32.100 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

## Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2670	~ 2670
Sweeptime	151.563 $\mu$ s	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## g Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
RF output power	2412.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000	24.0	20.000000	PASS
Power Spectral Density	2412.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2412.000	24.0	20.000000	PASS
Tx Spurious Emission	2412.000	24.0	20.000000	PASS
RF output power	2422.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	24.0	20.000000	PASS
Tx Spurious Emission	2437.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2462.000	24.0	20.000000	PASS
Tx Spurious Emission	2462.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2422.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	2422.000	24.0	40.000000	PASS
Tx Spurious Emission	2422.000	24.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	24.0	40.000000	PASS
Tx Spurious Emission	2437.000	24.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	2452.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	2452.000	24.0	40.000000	PASS
Tx Spurious Emission	2452.000	24.0	40.000000	PASS

## RF output power (2412 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	16.7	30.0	16.7	88.897	PASS

## OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

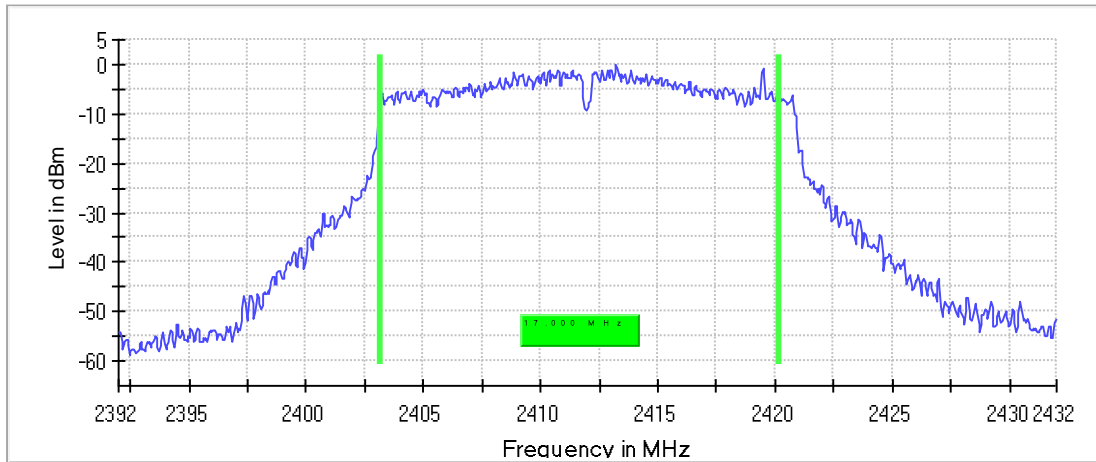
## Minimum Emission Bandwidth 6 dB (2412 MHz; 24.000 dBm; 20 MHz)

### 6 dB Bandwidth

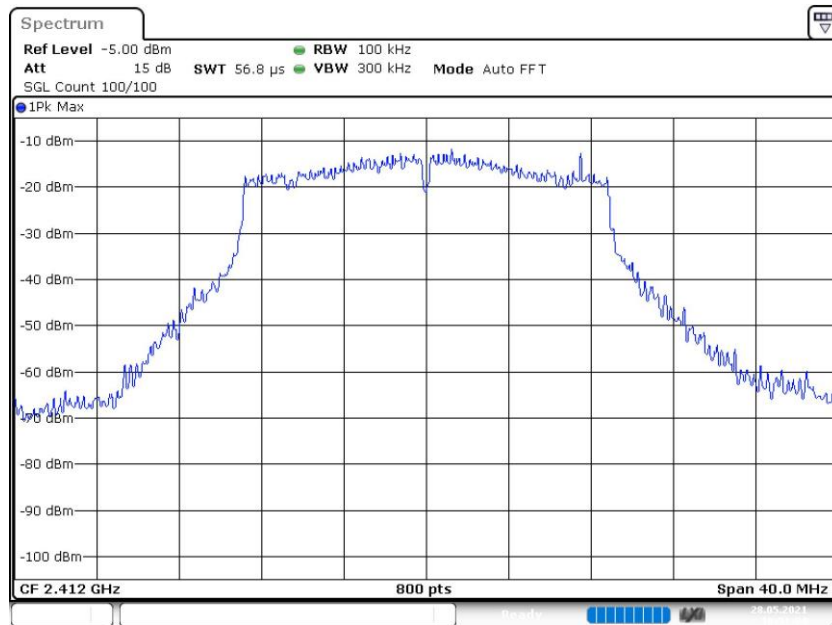
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.000000	0.500000	---	2403.175000	2420.175000

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	0.0	PASS

6 dB Bandwidth



Bandwidth



Date: 28.MAY.2021 10:51:04

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	56.836 $\mu$ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## Power Spectral Density (2412 MHz; 24.000 dBm; 20 MHz)

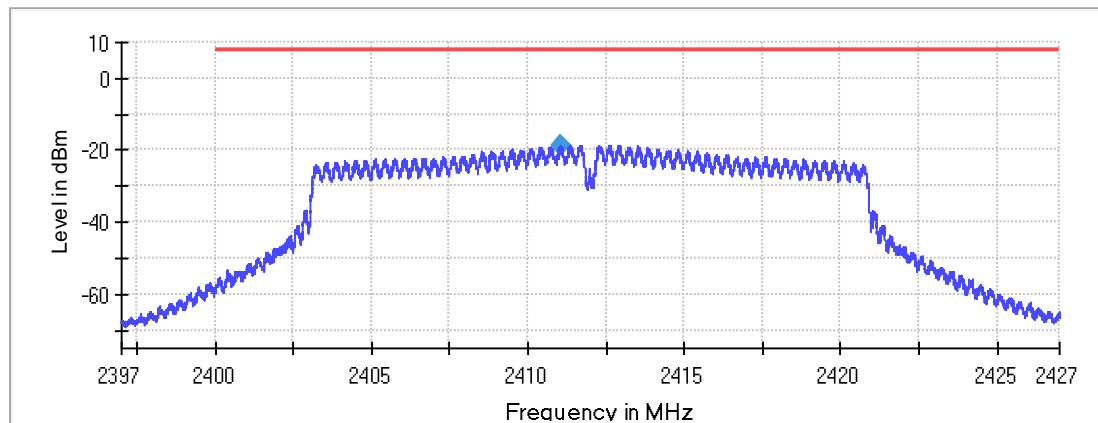
### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2411.055750	-18.540	8.0	PASS

### Ports

Port	State
1	used
2	used

Power Spectral Density



— Limit    ◆ PSD    — SumLevel

### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.42700 GHz	2.42700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
SweepTime	4.424 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

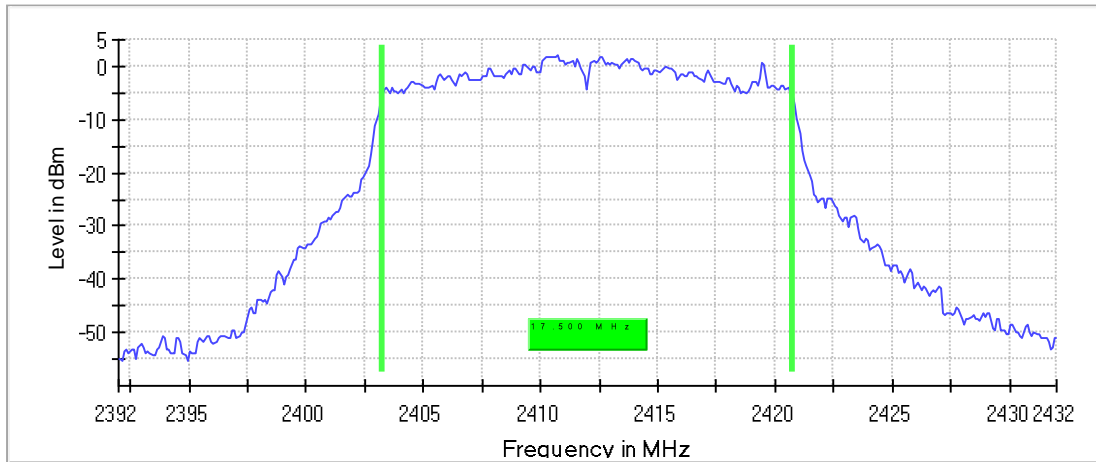
## Occupied Channel Bandwidth 99% (2412 MHz; 24.000 dBm; 20 MHz)

### 99 % Bandwidth

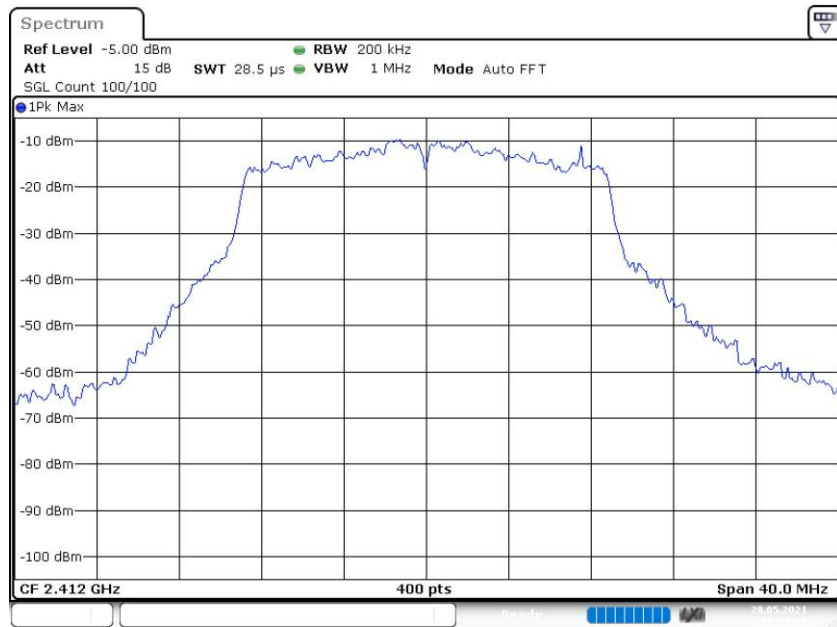
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	17.500000	---	---	2403.250000	2420.750000

DUT Frequency (MHz)	Result
2412.000000	PASS

99 %Bandwidth



Bandwidth



## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	28.477 μs	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

## Tx Spurious Emission (2412 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Result
2412.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

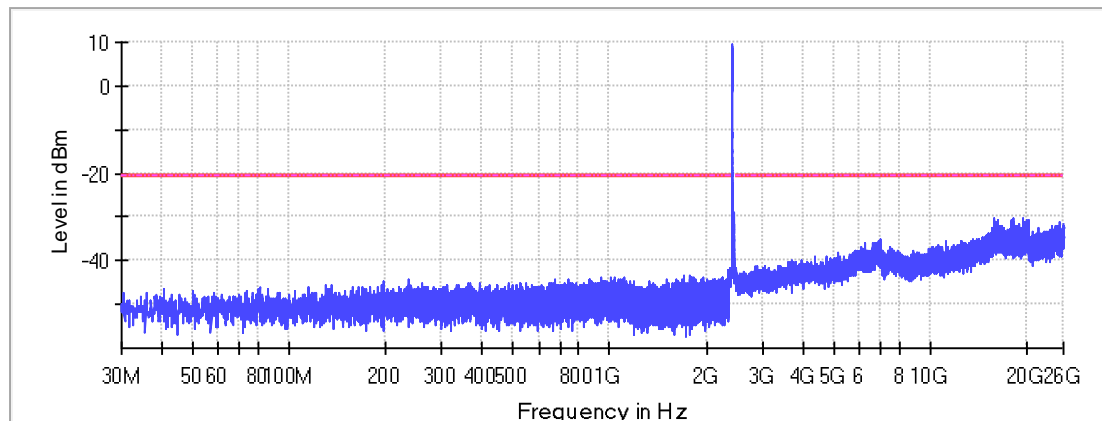
### Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
18217.384043	-30.1	9.6	-20.5
15832.003617	-30.2	9.7	-20.5
19530.592552	-30.5	10.0	-20.5
2399.725000	-30.5	10.1	-20.5
19891.412573	-30.6	10.1	-20.5
2399.475000	-30.6	10.1	-20.5
15883.444353	-30.6	10.1	-20.5
15882.709486	-30.6	10.2	-20.5
16221.483477	-30.7	10.3	-20.5
20247.823388	-30.8	10.3	-20.5
2399.525000	-30.8	10.3	-20.5
2399.775000	-30.8	10.3	-20.5
2399.825000	-30.8	10.4	-20.5
17913.883699	-30.9	10.4	-20.5
17858.768624	-30.9	10.5	-20.5

### Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit    - - - - Threshold    — SumLevel    × Critical    × Final Critical

## Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	32001	~ 46400
Sweeptime	32.100 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

## Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2670	~ 2670
Sweeptime	151.563 µs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

## RF output power (2422 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2422.000000	21.7	30.0	21.7	88.883	PASS

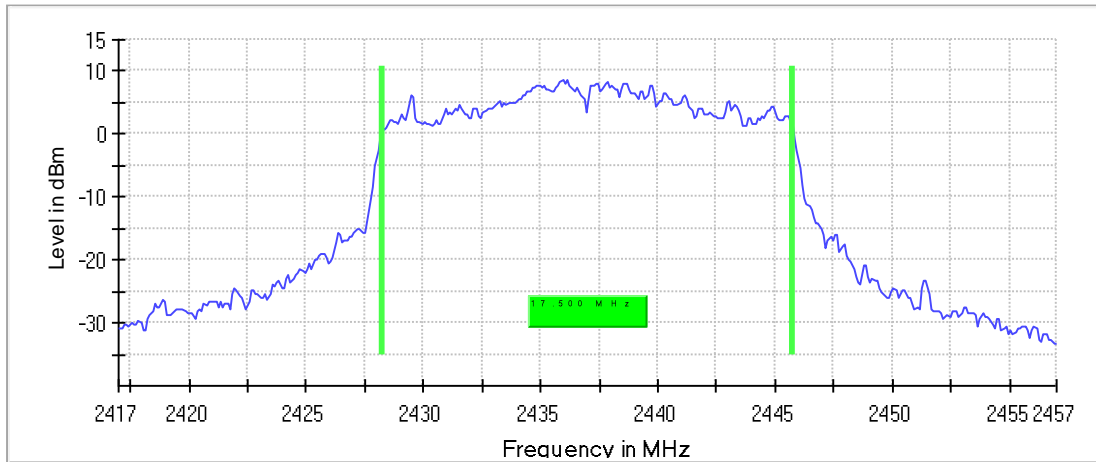
## Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 20 MHz)

### 99 % Bandwidth

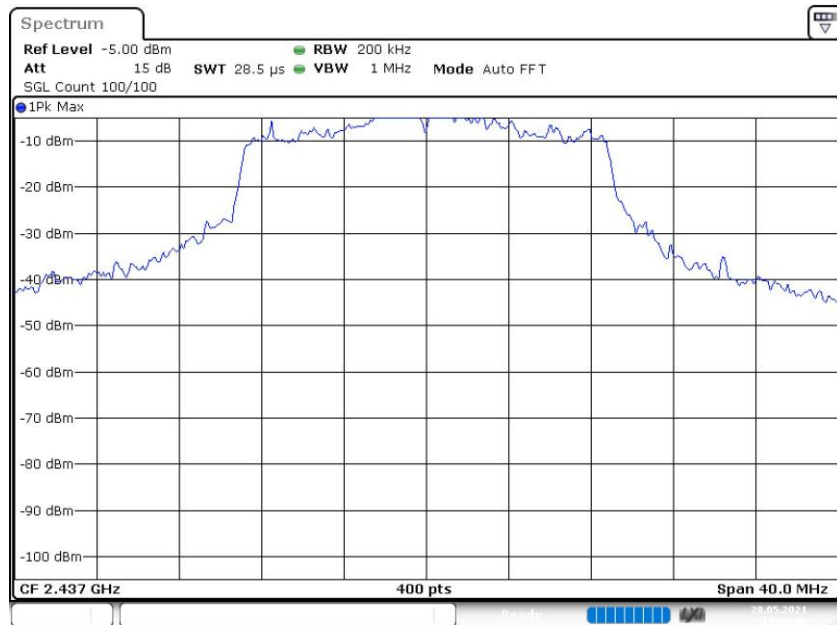
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	17.500000	---	---	2428.250000	2445.750000

DUT Frequency (MHz)	Result
2437.000000	PASS

99 %Bandwidth



Bandwidth



Date: 28.MAY.2021 11:00:42

**Tx Spurious Emission (2437 MHz; 24.000 dBm; 20 MHz)**

### Result

DUT Frequency (MHz)	Result
2437.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

### Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
19918.602676	-30.3	13.1	-17.2
19864.222470	-30.5	13.3	-17.2

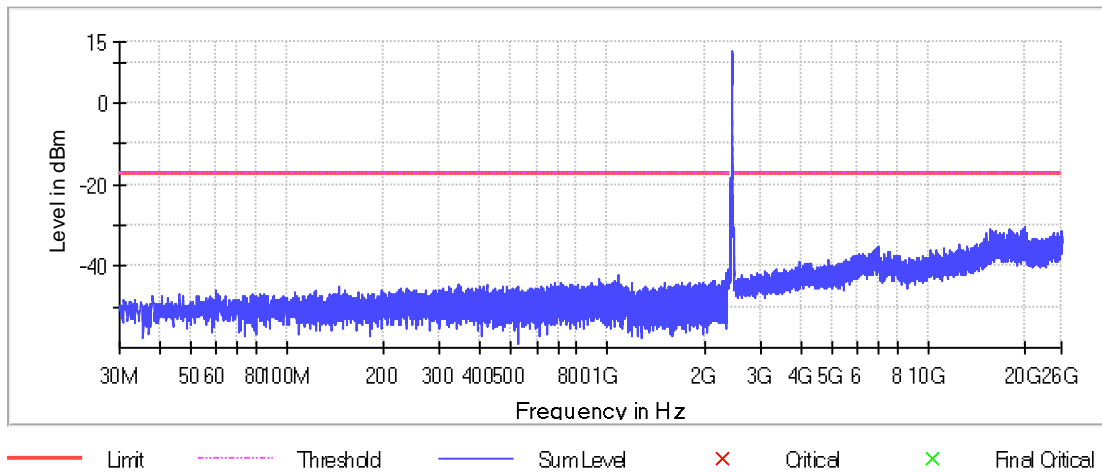


19895.086911	-30.8	13.6	-17.2
17885.958728	-31.0	13.8	-17.2
19615.837200	-31.1	13.9	-17.2
15504.987508	-31.2	14.0	-17.2
18173.291983	-31.2	14.0	-17.2
19891.412573	-31.2	14.0	-17.2
19538.676096	-31.3	14.1	-17.2
15892.997633	-31.3	14.1	-17.2
17860.973227	-31.3	14.1	-17.2
19895.821779	-31.3	14.1	-17.2
25907.039241	-31.4	14.2	-17.2
17858.033757	-31.4	14.2	-17.2
15837.147691	-31.5	14.3	-17.2

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



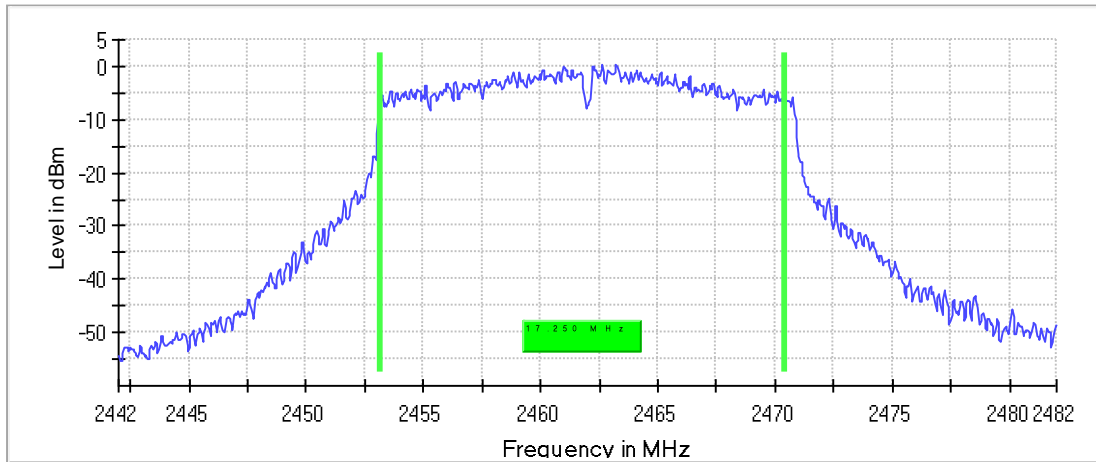
## Minimum Emission Bandwidth 6 dB (2462 MHz; 24.000 dBm; 20 MHz)

### 6 dB Bandwidth

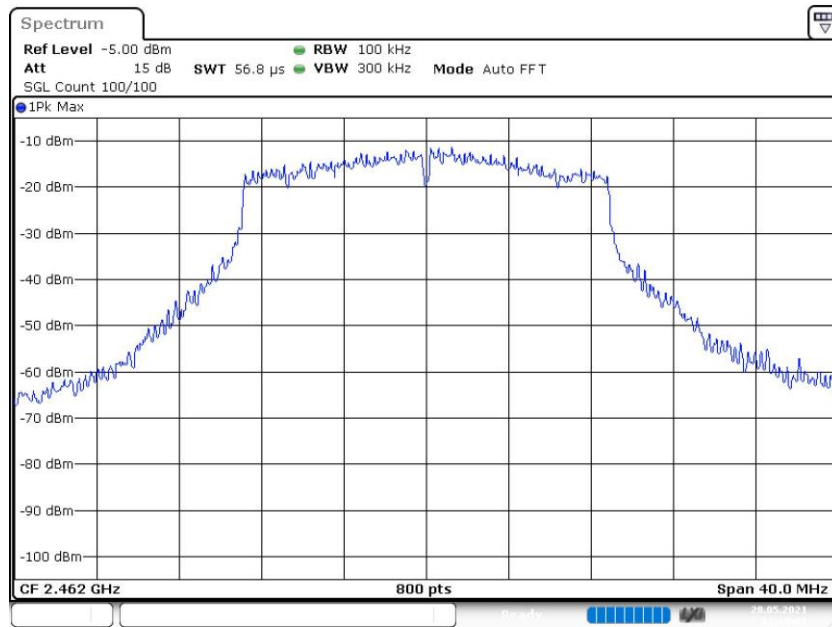
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.250000	0.500000	---	2453.175000	2470.425000

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	0.3	PASS

6 dB Bandwidth



Bandwidth



Date: 28.MAY.2021 11:10:41

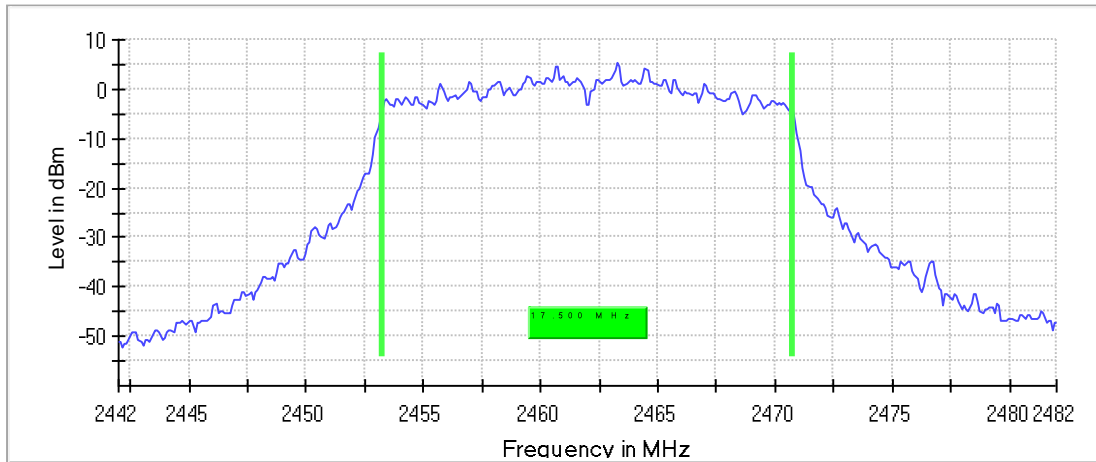
**Occupied Channel Bandwidth 99% (2462 MHz; 24.000 dBm; 20 MHz)**

**99 % Bandwidth**

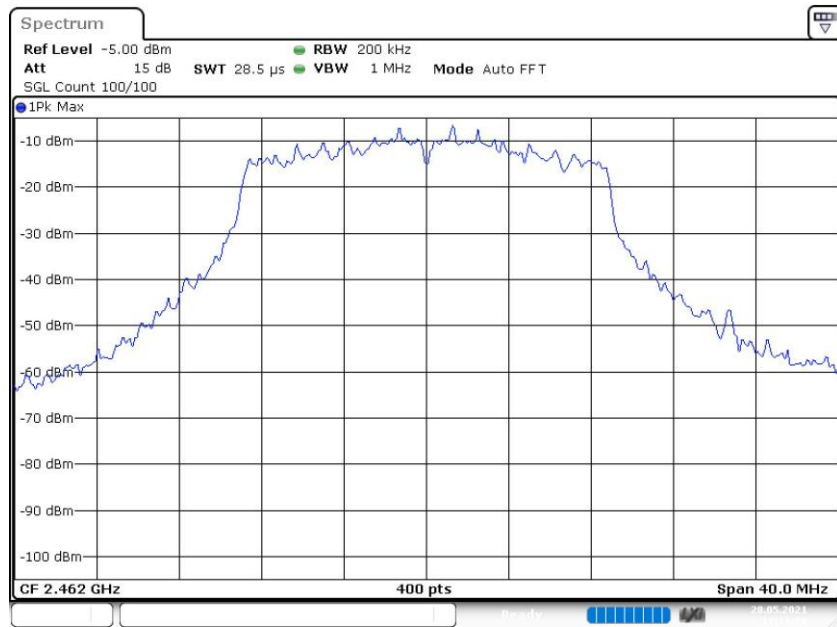
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.500000	---	---	2453.250000	2470.750000

DUT Frequency (MHz)	Result
2462.000000	PASS

99 %Bandwidth



Bandwidth



Date: 28.MAY.2021 11:11:28

## Tx Spurious Emission (2462 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Result
2462.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

### Pre Measurements

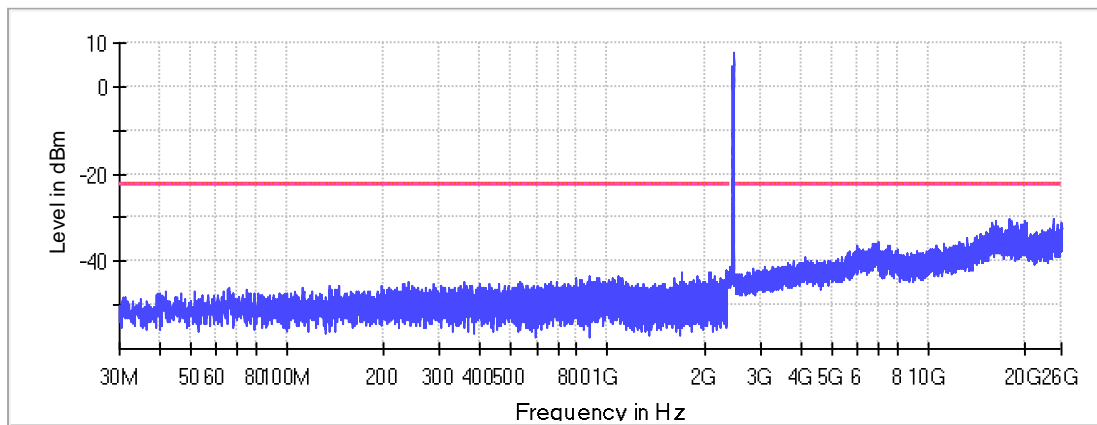
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
17888.898198	-30.2	8.1	-22.2

24628.369512	-30.3	8.1	-22.2
24537.245922	-30.5	8.3	-22.2
17889.633066	-30.6	8.4	-22.2
16192.088771	-30.6	8.5	-22.2
19874.510617	-30.7	8.5	-22.2
19898.761250	-30.8	8.7	-22.2
18260.006367	-30.8	8.7	-22.2
17900.656081	-30.8	8.7	-22.2
19919.337544	-30.9	8.8	-22.2
19898.026382	-31.0	8.8	-22.2
20277.952962	-31.0	8.8	-22.2
25923.941197	-31.1	8.9	-22.2
19903.905323	-31.1	8.9	-22.2
15821.715470	-31.1	9.0	-22.2

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit    - - - - - Threshold    — Sum Level    × Critical    × Final Critical

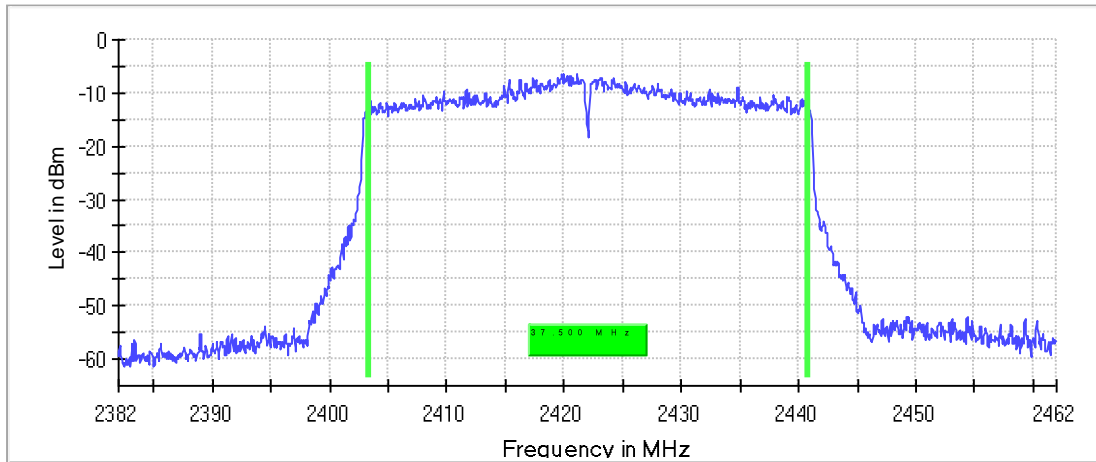
## Minimum Emission Bandwidth 6 dB (2422 MHz; 24.000 dBm; 40 MHz)

### 6 dB Bandwidth

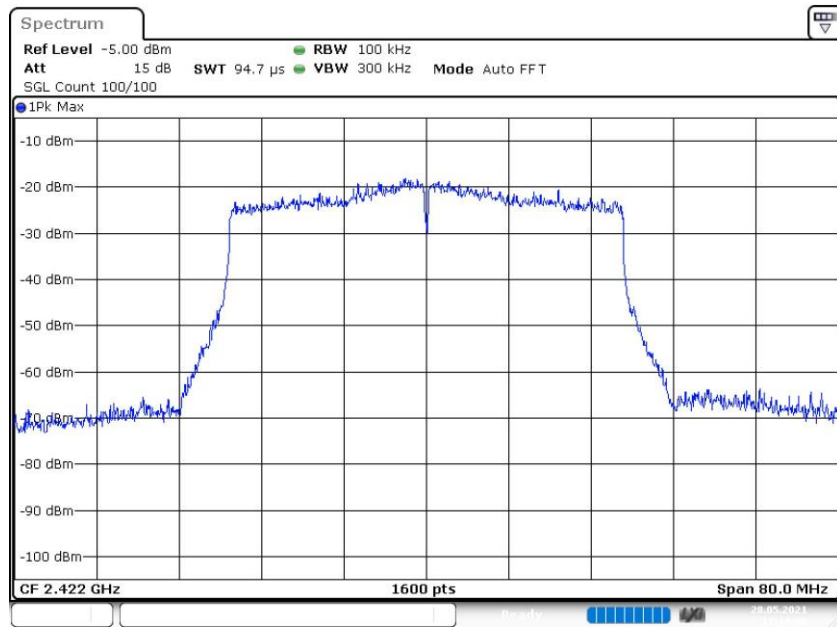
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	37.500000	0.500000	---	2403.375000	2440.875000

DUT Frequency (MHz)	Max Level (dBm)	Result
2422.000000	-6.3	PASS

6 dB Bandwidth



Bandwidth



Date: 28.MAY.2021 11:14:30

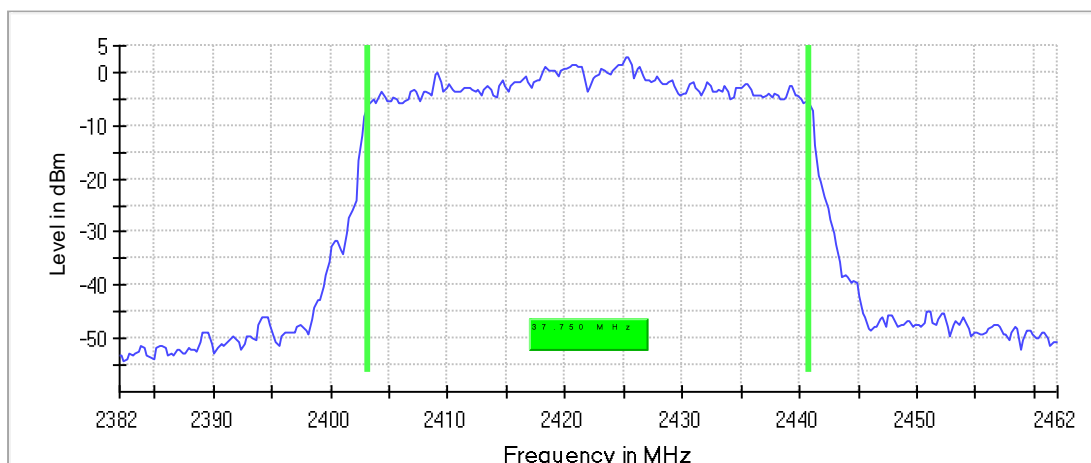
**Occupied Channel Bandwidth 99% (2422 MHz; 24.000 dBm; 40 MHz)**

**99 % Bandwidth**

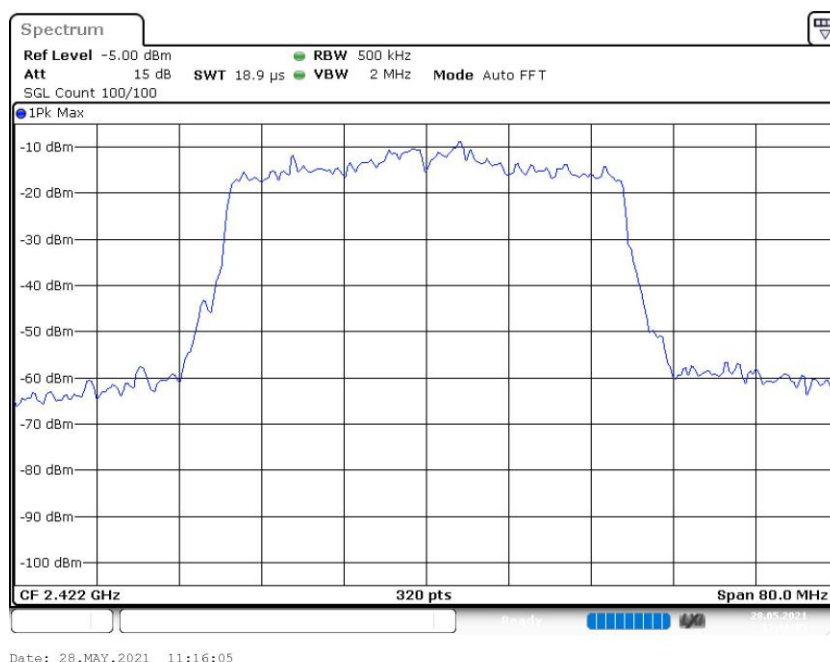
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	37.750000	---	---	2403.125000	2440.875000

DUT Frequency (MHz)	Result
2422.000000	PASS

99 %Bandwidth



Bandwidth



**Tx Spurious Emission (2422 MHz; 24.000 dBm; 40 MHz)**

**Result**

DUT Frequency (MHz)	Result
2422.000000	PASS

**Final measurements**

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

**Pre Measurements**

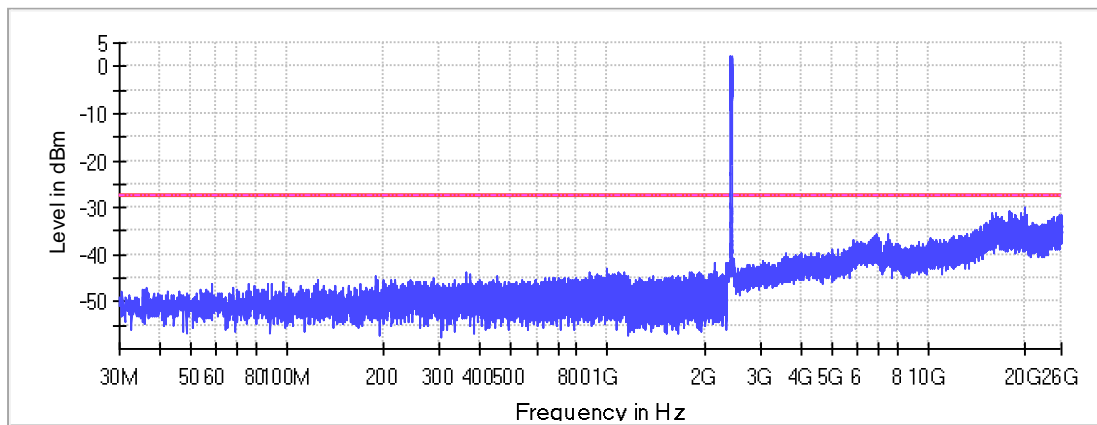
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
19895.821779	-30.1	2.5	-27.7

17851.419948	-30.6	2.9	-27.7
17924.171846	-30.9	3.2	-27.7
18269.559647	-31.0	3.3	-27.7
17893.307404	-31.0	3.3	-27.7
15888.588427	-31.0	3.4	-27.7
16207.520992	-31.0	3.4	-27.7
19892.147441	-31.1	3.4	-27.7
18216.649175	-31.2	3.5	-27.7
15887.853559	-31.2	3.6	-27.7
19490.909698	-31.3	3.6	-27.7
19867.896808	-31.3	3.6	-27.7
15901.081177	-31.4	3.7	-27.7
19903.905323	-31.4	3.7	-27.7
16136.973696	-31.4	3.8	-27.7

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit    - - - Threshold    — Sum Level    × Critical    × Final Critical

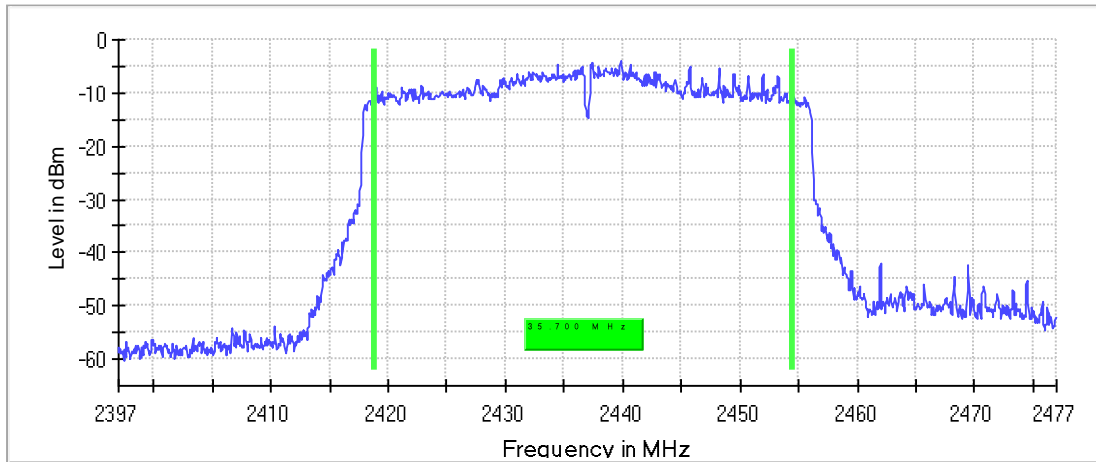
## Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 40 MHz)

### 6 dB Bandwidth

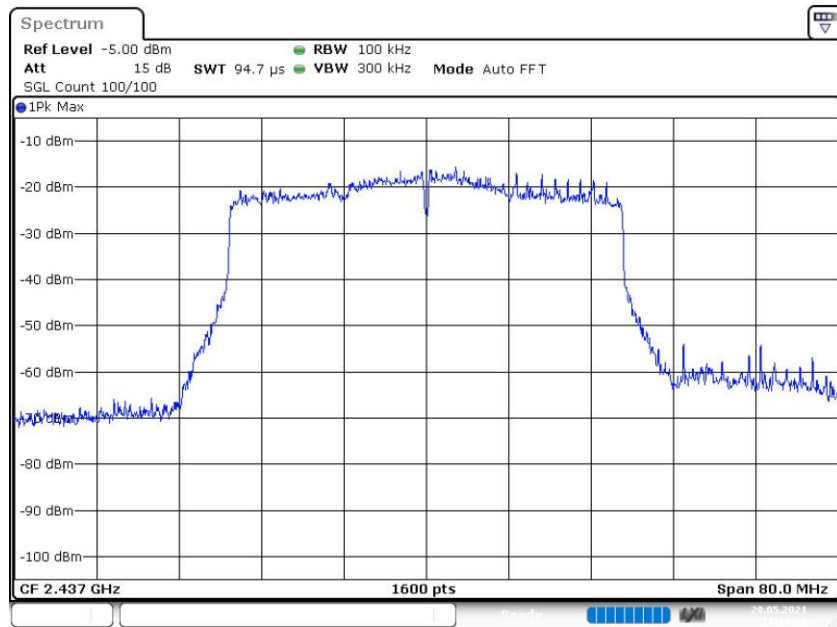
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	35.700000	0.500000	---	2418.875000	2454.575000

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	-3.9	PASS

6 dB Bandwidth



Bandwidth



Date: 28.MAY.2021 11:19:24

**Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 40 MHz)**

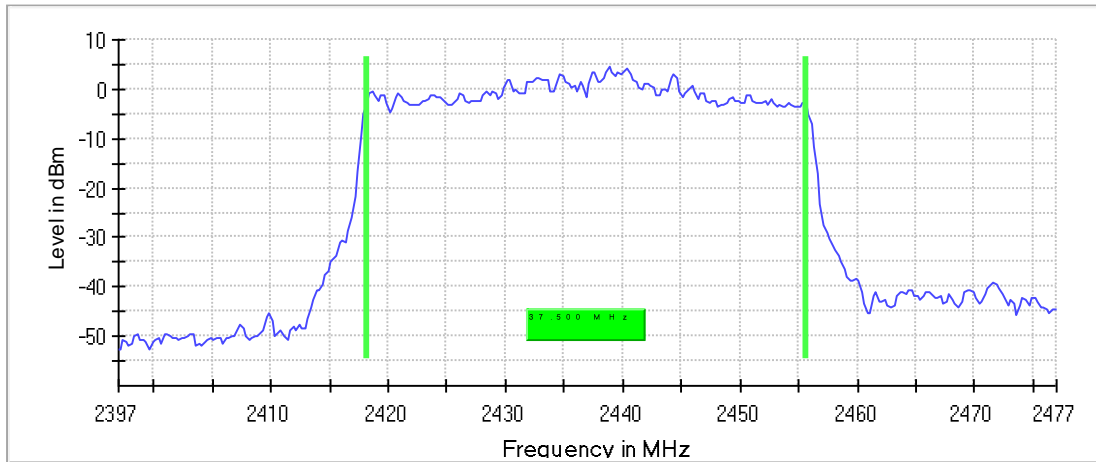
**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	37.500000	---	---	2418.125000	2455.625000

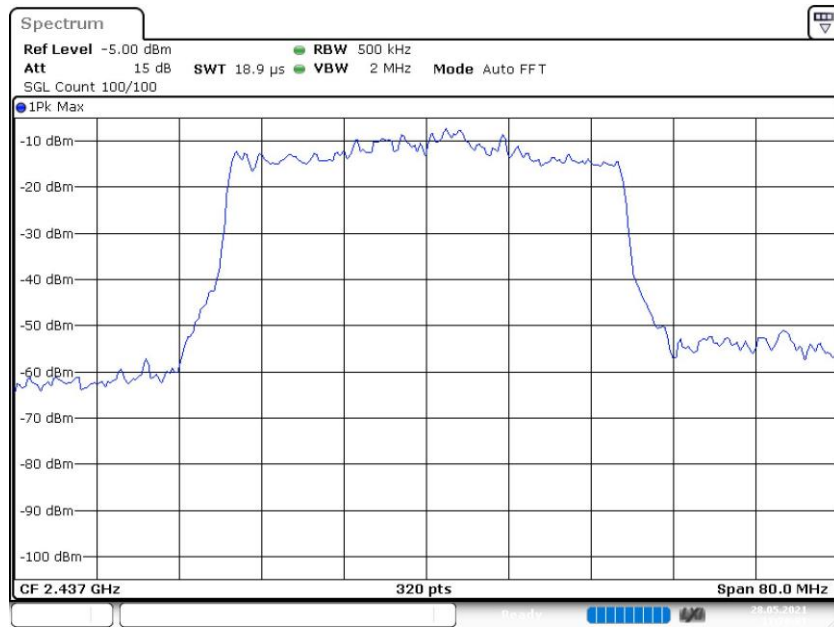
DUT Frequency (MHz)	Result
2437.000000	PASS



99 %Bandwidth



Bandwidth



Date: 28.MAY.2021 11:20:31

**Tx Spurious Emission (2437 MHz; 24.000 dBm; 40 MHz)**

**Result**

DUT Frequency (MHz)	Result
2437.000000	PASS

**Final measurements**

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

**Pre Measurements**

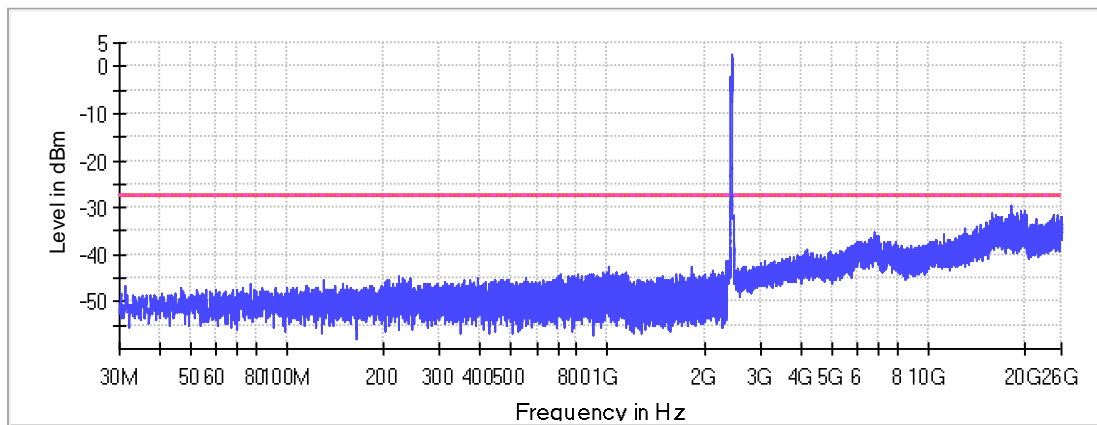
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
18196.807748	-29.5	2.1	-27.4

19542.350434	-30.7	3.3	-27.4
19886.268499	-30.8	3.4	-27.4
19927.421088	-30.9	3.5	-27.4
19895.086911	-30.9	3.5	-27.4
19513.690596	-31.0	3.5	-27.4
19889.207970	-31.0	3.6	-27.4
15809.222720	-31.1	3.7	-27.4
18221.793249	-31.2	3.8	-27.4
18872.885996	-31.3	3.9	-27.4
25319.879980	-31.4	4.0	-27.4
18907.424776	-31.4	4.0	-27.4
19528.387949	-31.4	4.0	-27.4
16207.520992	-31.4	4.0	-27.4
17905.800155	-31.4	4.0	-27.4

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit    - - - - Threshold    — Sum Level    × Critical    × Final Critical

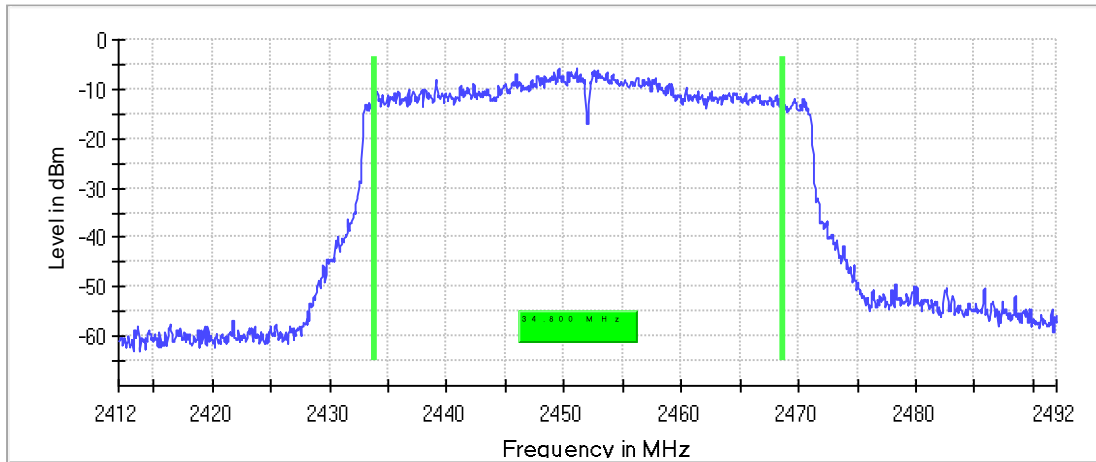
## Minimum Emission Bandwidth 6 dB (2452 MHz; 24.000 dBm; 40 MHz)

### 6 dB Bandwidth

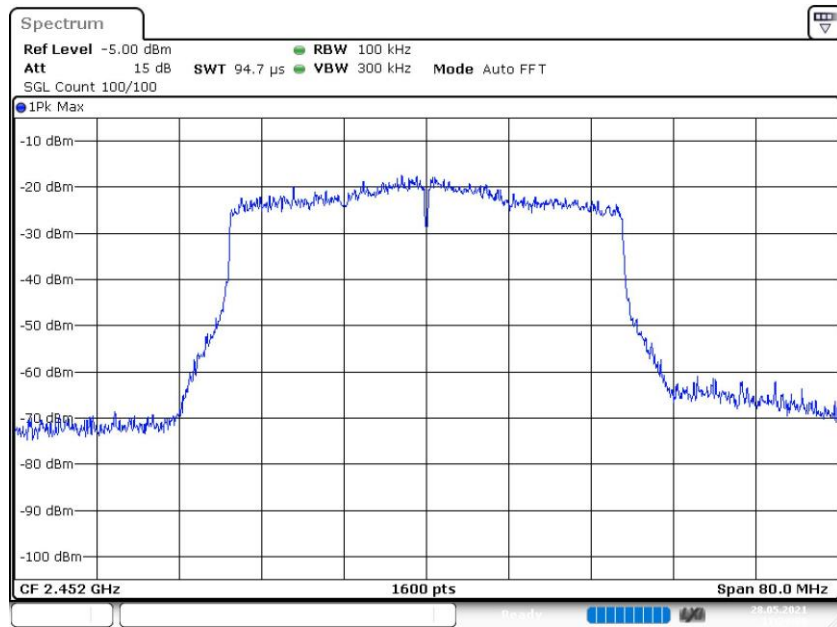
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	34.800000	0.500000	---	2433.925000	2468.725000

DUT Frequency (MHz)	Max Level (dBm)	Result
2452.000000	-5.6	PASS

6 dB Bandwidth



Bandwidth



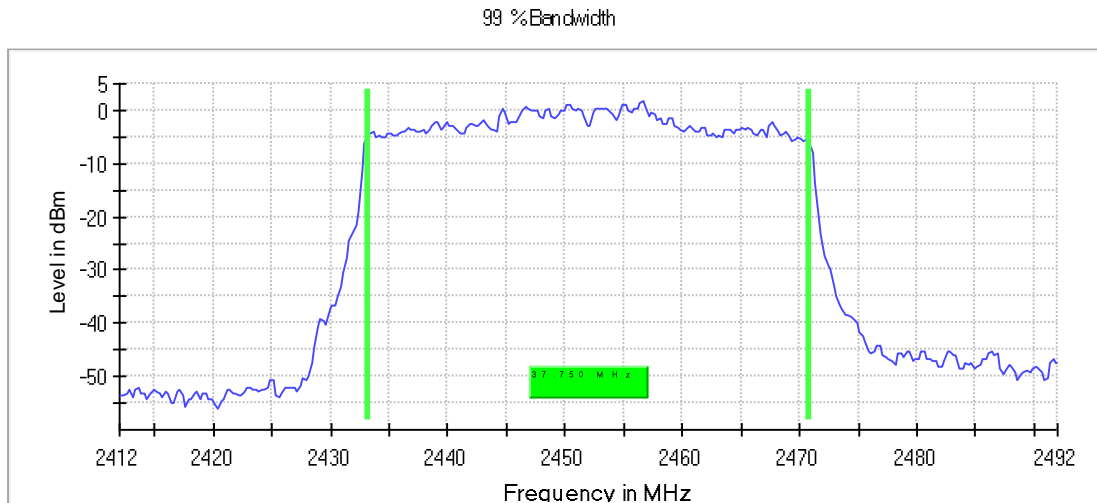
Date: 28.MAY.2021 11:23:10

**Occupied Channel Bandwidth 99% (2452 MHz; 24.000 dBm; 40 MHz)**

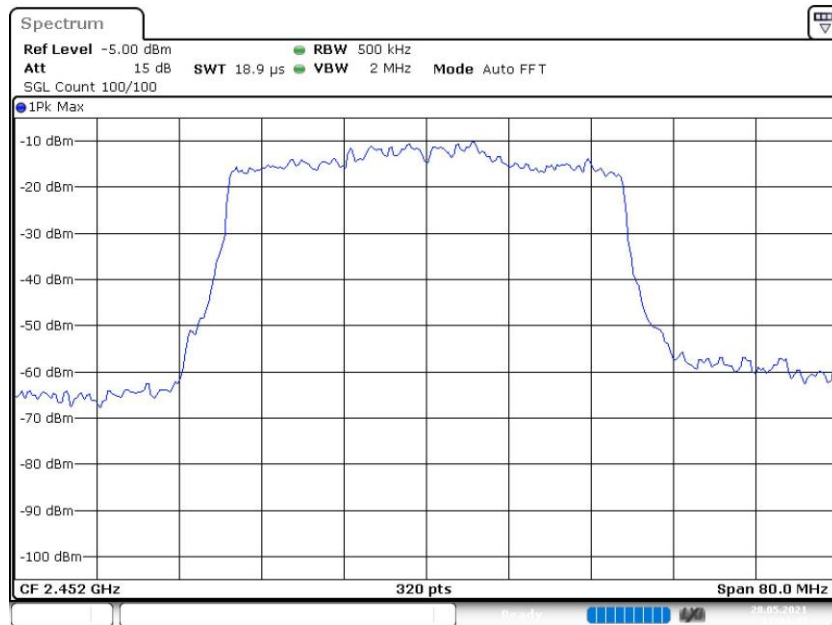
**99 % Bandwidth**

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	37.750000	---	---	2433.125000	2470.875000

DUT Frequency (MHz)	Result
2452.000000	PASS



Bandwidth



## Tx Spurious Emission (2452 MHz; 24.000 dBm; 40 MHz)

### Result

DUT Frequency (MHz)	Result
2452.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

### Pre Measurements

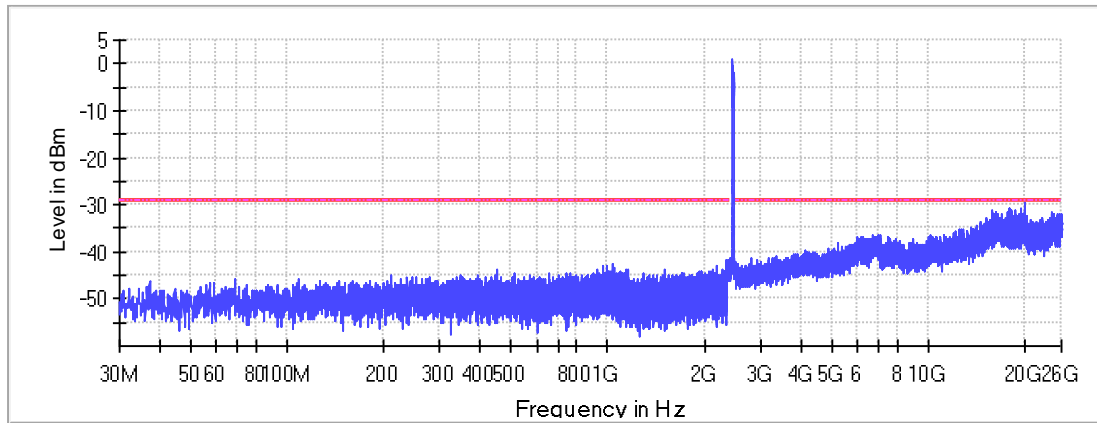
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
-----------------	-------------	-------------	-------------

19912.723735	-29.7	0.5	-29.2
19865.692205	-30.7	1.5	-29.2
17898.451478	-30.9	1.7	-29.2
17865.382433	-30.9	1.7	-29.2
19557.782655	-30.9	1.8	-29.2
19887.738235	-30.9	1.8	-29.2
17899.186346	-31.0	1.8	-29.2
18548.809358	-31.2	2.0	-29.2
18260.741235	-31.2	2.0	-29.2
17859.503492	-31.3	2.1	-29.2
15885.648956	-31.3	2.2	-29.2
19925.216485	-31.4	2.2	-29.2
19895.821779	-31.4	2.2	-29.2
19878.184955	-31.4	2.2	-29.2
16217.074271	-31.4	2.2	-29.2

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



## ax Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
RF output power	2412.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2412.000	24.0	20.000000	PASS
Power Spectral Density	2412.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2412.000	24.0	20.000000	PASS
Tx Spurious Emission	2412.000	24.0	20.000000	PASS
RF output power	2422.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	24.0	20.000000	PASS
Tx Spurious Emission	2437.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2462.000	24.0	20.000000	PASS
Occupied Channel Bandwidth 99%	2462.000	24.0	20.000000	PASS
Tx Spurious Emission	2462.000	24.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	2422.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	2422.000	24.0	40.000000	PASS
Tx Spurious Emission	2422.000	24.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	2437.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	2437.000	24.0	40.000000	PASS
Tx Spurious Emission	2437.000	24.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	2452.000	24.0	40.000000	PASS
Occupied Channel Bandwidth 99%	2452.000	24.0	40.000000	PASS
Tx Spurious Emission	2452.000	24.0	40.000000	PASS

## RF output power (2412 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2412.000000	15.3	30.0	15.3	88.508	PASS

## OSP PowerMeter settings

Setting	Instrument Value	Target Value
Measurement Time	1.000 s	1.000 s
Points	1000000	1000000
Time resolution	1.000 µs	1.000 µs

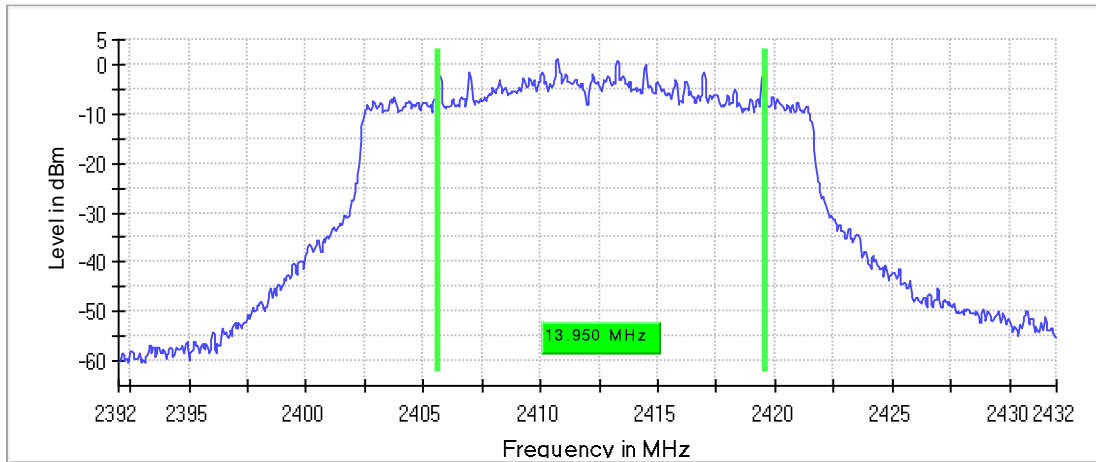
## Minimum Emission Bandwidth 6 dB (2412 MHz; 24.000 dBm; 20 MHz)

### 6 dB Bandwidth

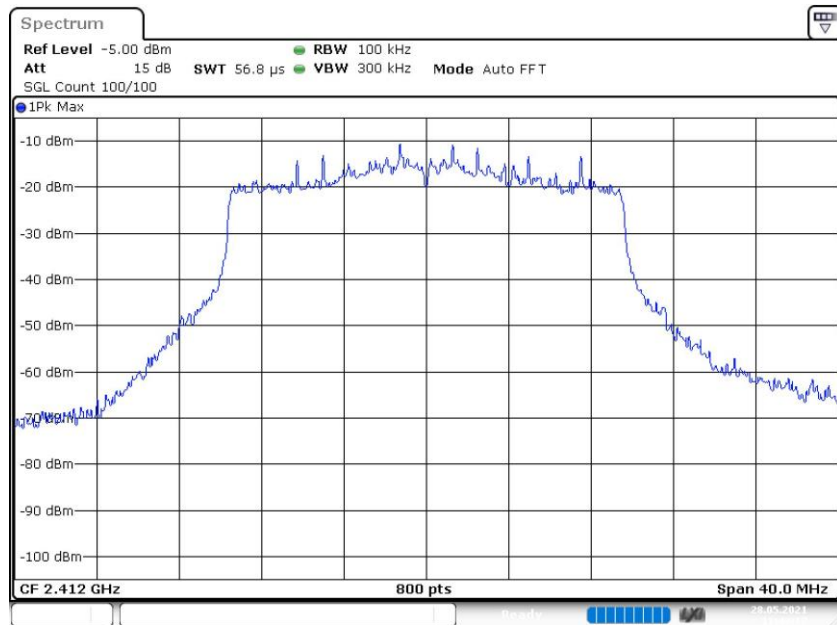
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	13.950000	0.500000	---	2405.625000	2419.575000

DUT Frequency (MHz)	Max Level (dBm)	Result
2412.000000	1.2	PASS

6 dB Bandwidth



Bandwidth



Date: 28.MAY.2021 11:43:17

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
Sweeptime	56.836 μs	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

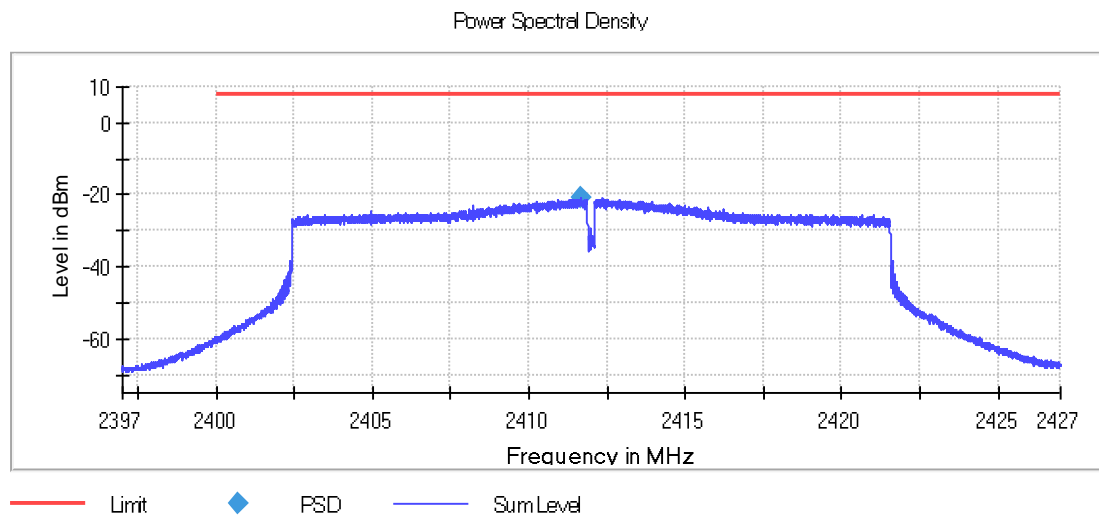
## Power Spectral Density (2412 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2412.000000	2411.673750	-20.945	8.0	PASS

### Ports

Port	State
1	used
2	used



### Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39700 GHz	2.39700 GHz
Stop Frequency	2.42700 GHz	2.42700 GHz
Span	30.000 MHz	30.000 MHz
RBW	3.000 kHz	<= 3.000 kHz
VBW	10.000 kHz	>= 9.000 kHz
SweepPoints	20000	~ 20000
SweepTime	4.424 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Average Power	Average Power
SweepType	FFT	AUTO
Preamp	off	off

## Occupied Channel Bandwidth 99% (2412 MHz; 24.000 dBm; 20 MHz)

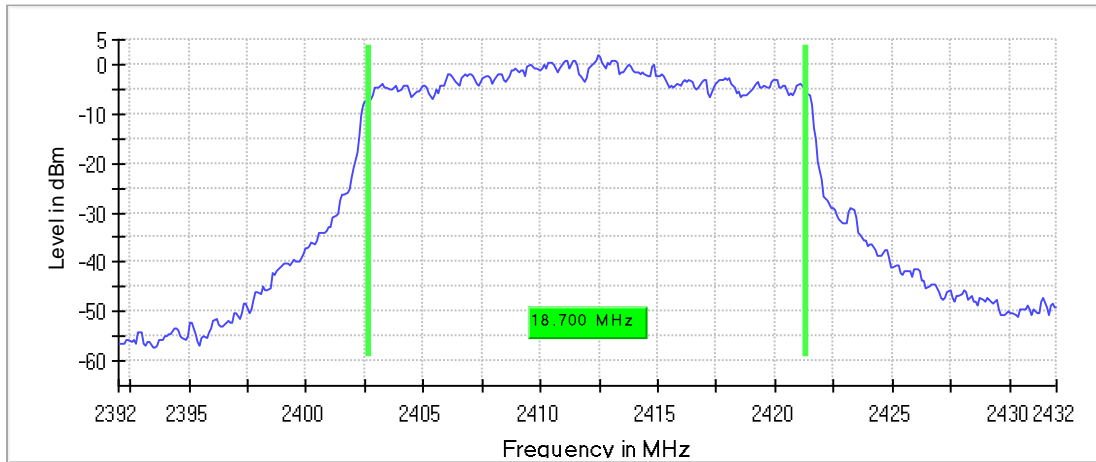
### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2412.000000	18.700000	---	---	2402.650000	2421.350000

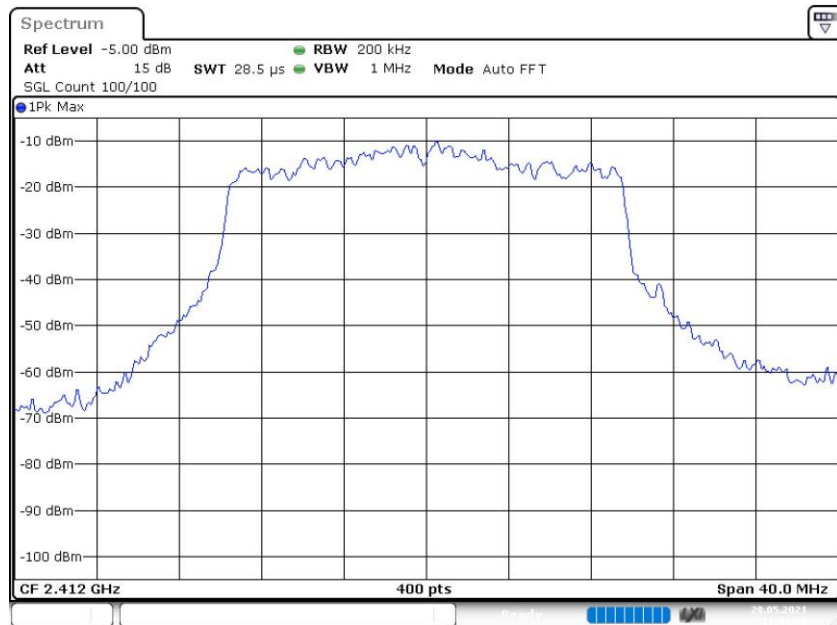
DUT Frequency (MHz)	Result
2412.000000	PASS



99 %Bandwidth



Bandwidth



Date: 28.MAY.2021 11:44:06

## Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.39200 GHz	2.39200 GHz
Stop Frequency	2.43200 GHz	2.43200 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	>= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	28.477 $\mu$ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## Tx Spurious Emission (2412 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Result
2412.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

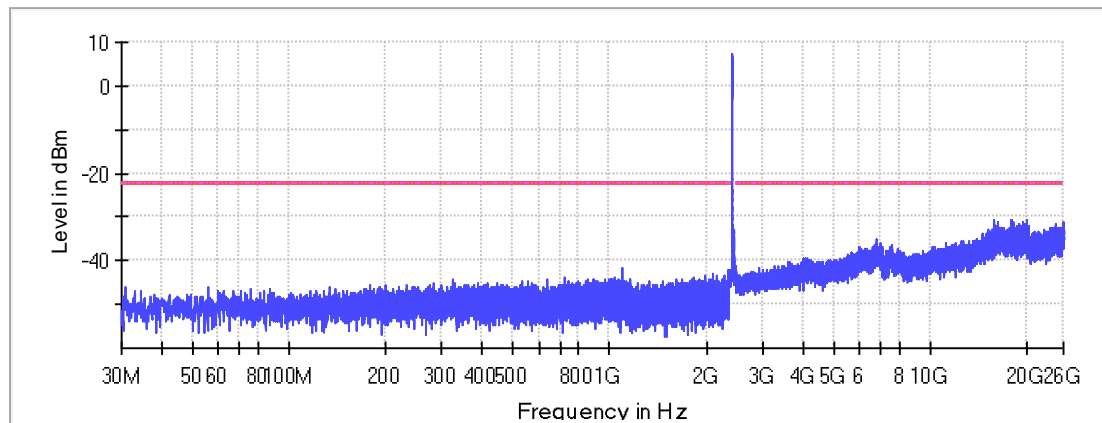
### Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
19912.723735	-30.6	8.0	-22.6
19889.942838	-30.6	8.0	-22.6
15788.646425	-30.7	8.1	-22.6
17900.656081	-30.8	8.2	-22.6
17882.284390	-30.9	8.3	-22.6
17885.958728	-30.9	8.3	-22.6
17894.042272	-31.0	8.4	-22.6
19505.607051	-31.1	8.5	-22.6
18209.300498	-31.2	8.6	-22.6
16186.944697	-31.3	8.7	-22.6
25888.667549	-31.3	8.7	-22.6
17868.321904	-31.4	8.8	-22.6
16255.287389	-31.4	8.8	-22.6
18254.862293	-31.4	8.8	-22.6
16165.633535	-31.5	8.9	-22.6

### Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit    - - - - Threshold    — SumLevel    × Critical    × Final Critical

## Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	32001	~ 46400
Sweeptime	32.100 ms	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off

## Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2670	~ 2670
Sweeptime	151.563 µs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	40.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	300	300
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

## RF output power (2422 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
2422.000000	20.4	30.0	20.4	88.537	PASS

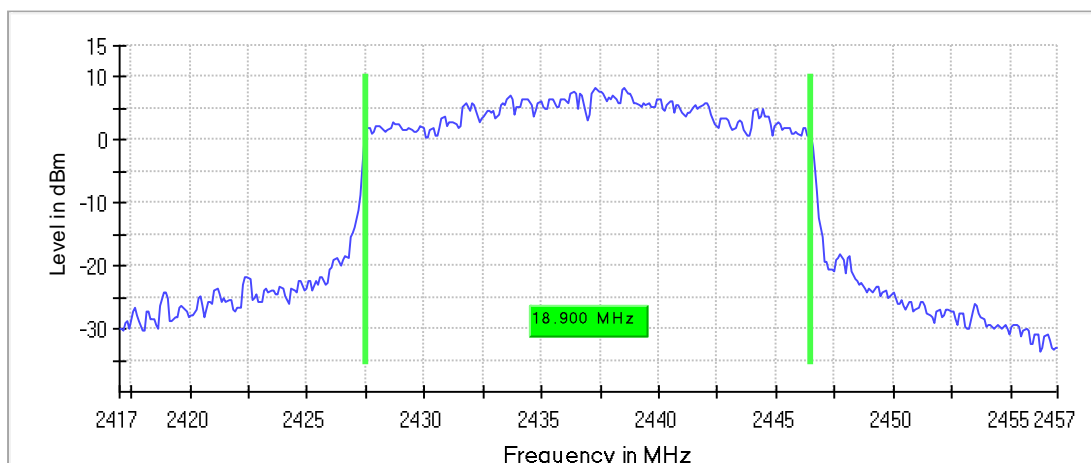
## Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 20 MHz)

### 99 % Bandwidth

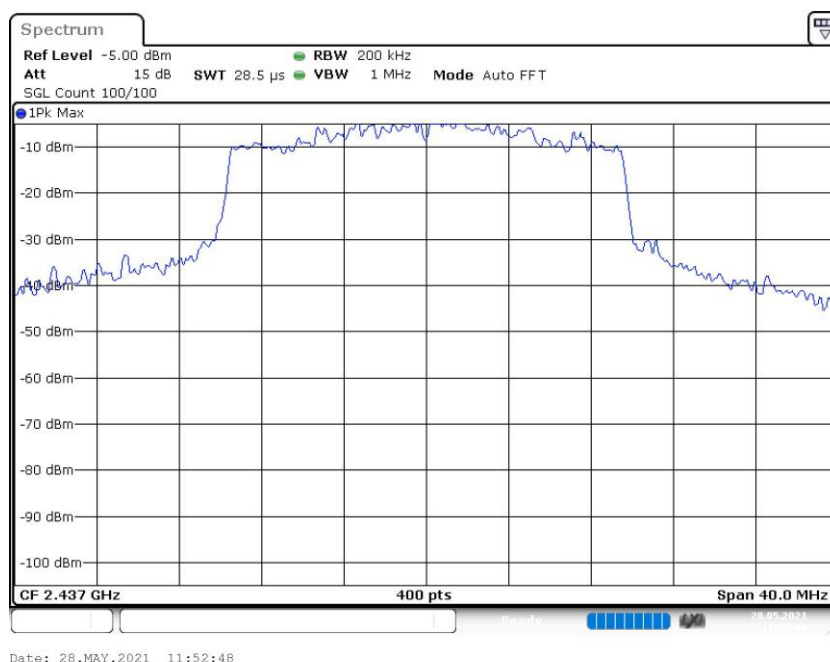
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	18.900000	---	---	2427.550000	2446.450000

DUT Frequency (MHz)	Result
2437.000000	PASS

99 %Bandwidth



Bandwidth



**Tx Spurious Emission (2437 MHz; 24.000 dBm; 20 MHz)**

**Result**

DUT Frequency (MHz)	Result
2437.000000	PASS

**Final measurements**

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

**Pre Measurements**

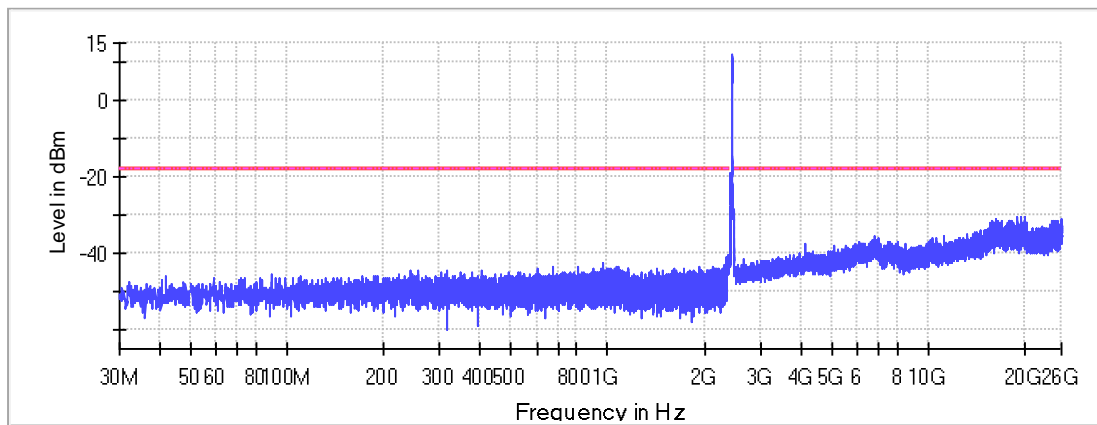
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
19900.230985	-30.5	12.5	-18.0

19529.857684	-30.6	12.6	-18.0
18912.568849	-30.7	12.6	-18.0
19538.676096	-30.7	12.7	-18.0
19876.715220	-30.9	12.8	-18.0
16156.080255	-31.0	12.9	-18.0
25874.705064	-31.2	13.1	-18.0
19875.245485	-31.3	13.3	-18.0
24526.957775	-31.3	13.3	-18.0
18241.634675	-31.4	13.4	-18.0
18262.945838	-31.4	13.4	-18.0
16184.740094	-31.5	13.4	-18.0
24646.006336	-31.5	13.5	-18.0
17926.376449	-31.5	13.5	-18.0
25192.747875	-31.6	13.5	-18.0

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit    - - - - Threshold    — Sum Level    × Critical    × Final Critical

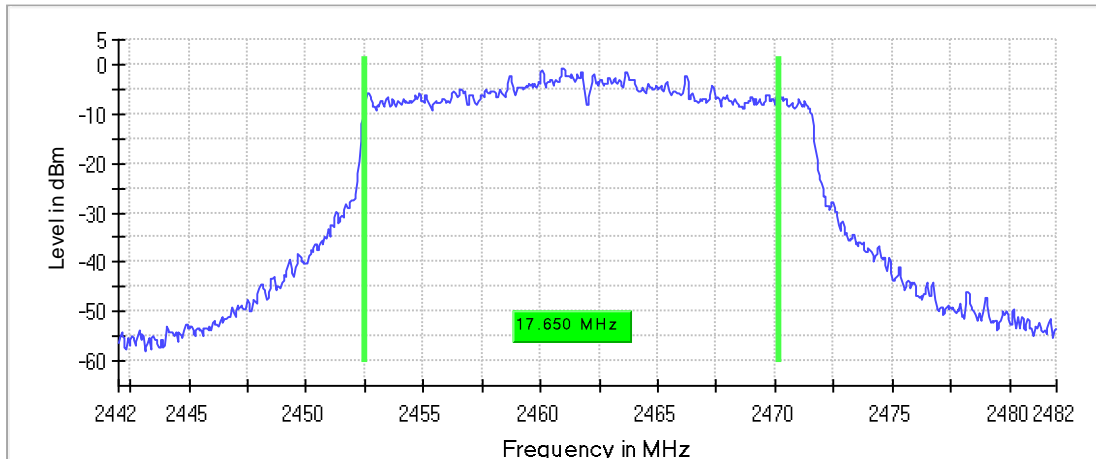
## Minimum Emission Bandwidth 6 dB (2462 MHz; 24.000 dBm; 20 MHz)

### 6 dB Bandwidth

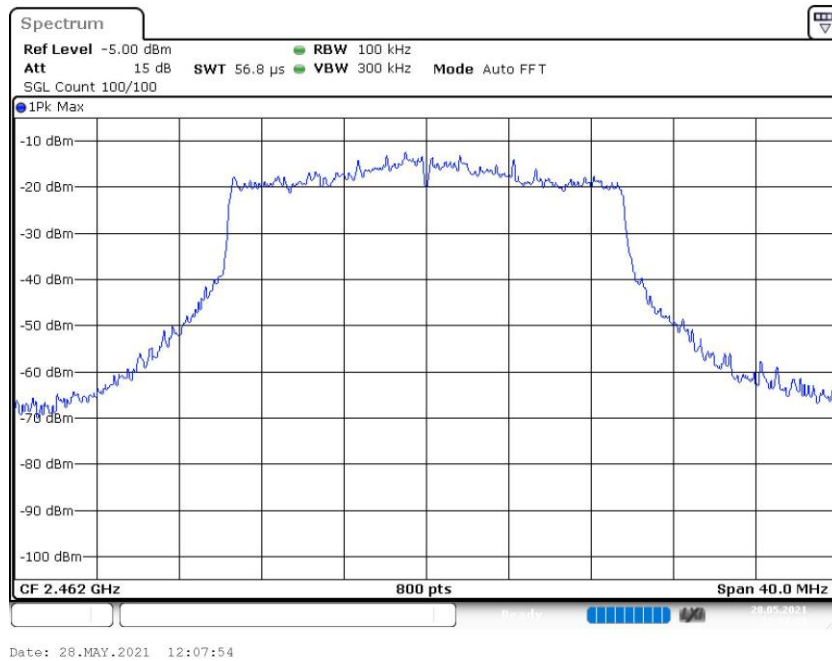
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	17.650000	0.500000	---	2452.525000	2470.175000

DUT Frequency (MHz)	Max Level (dBm)	Result
2462.000000	-0.6	PASS

6 dB Bandwidth



Bandwidth



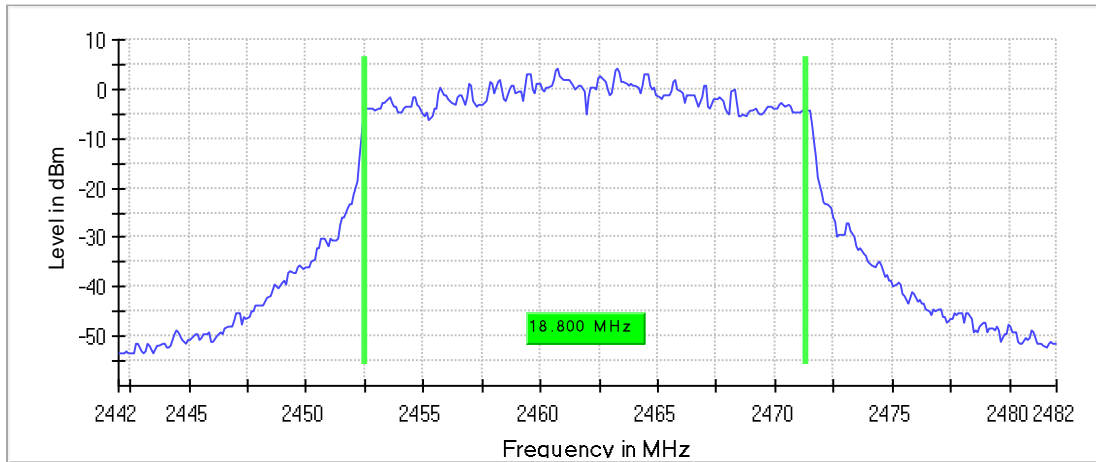
**Occupied Channel Bandwidth 99% (2462 MHz; 24.000 dBm; 20 MHz)**

**99 % Bandwidth**

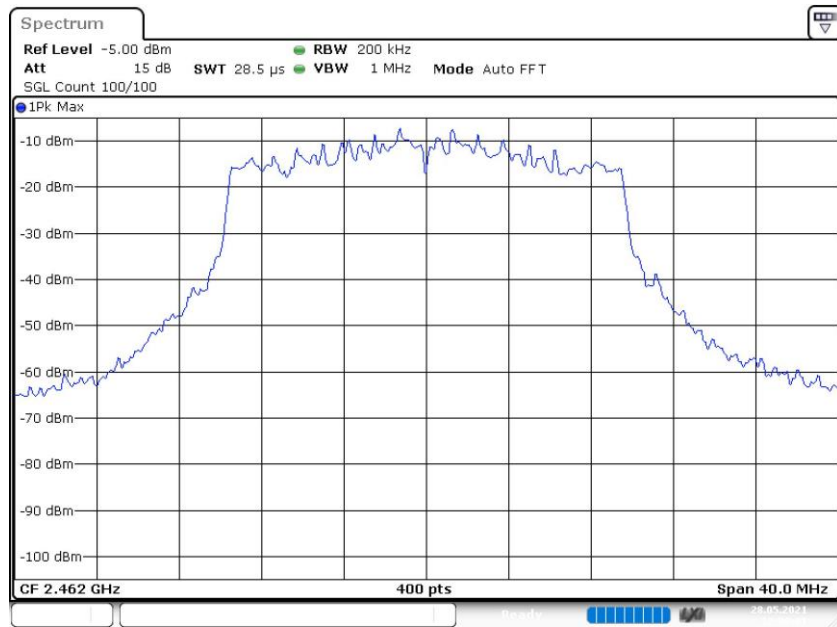
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2462.000000	18.800000	---	---	2452.550000	2471.350000

DUT Frequency (MHz)	Result
2462.000000	PASS

99 %Bandwidth



Bandwidth



Date: 28.MAY.2021 12:08:42

## Tx Spurious Emission (2462 MHz; 24.000 dBm; 20 MHz)

### Result

DUT Frequency (MHz)	Result
2462.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

### Pre Measurements

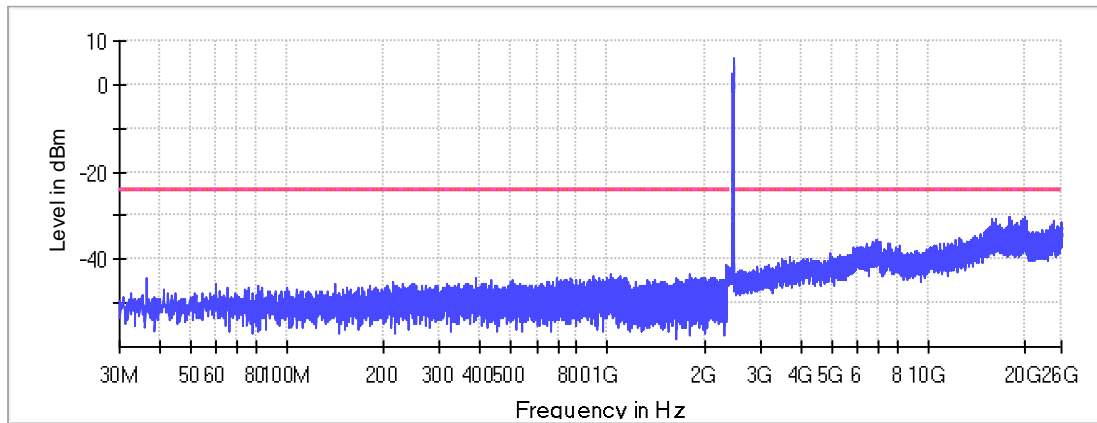
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
17874.200845	-30.1	6.0	-24.0

19868.631676	-30.1	6.1	-24.0
17902.860684	-30.3	6.2	-24.0
16214.134800	-30.6	6.6	-24.0
15879.770015	-30.7	6.7	-24.0
19597.465509	-30.8	6.8	-24.0
20205.201064	-30.9	6.9	-24.0
19936.239500	-31.0	6.9	-24.0
18199.012351	-31.0	6.9	-24.0
19903.170456	-31.1	7.1	-24.0
24645.271468	-31.1	7.1	-24.0
19943.588177	-31.2	7.2	-24.0
18245.309014	-31.2	7.2	-24.0
19522.509008	-31.3	7.2	-24.0
16198.702580	-31.3	7.3	-24.0

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit    - - - - Threshold    — Sum Level    × Critical    × Final Critical

## Minimum Emission Bandwidth 6 dB (2422 MHz; 24.000 dBm; 40 MHz)

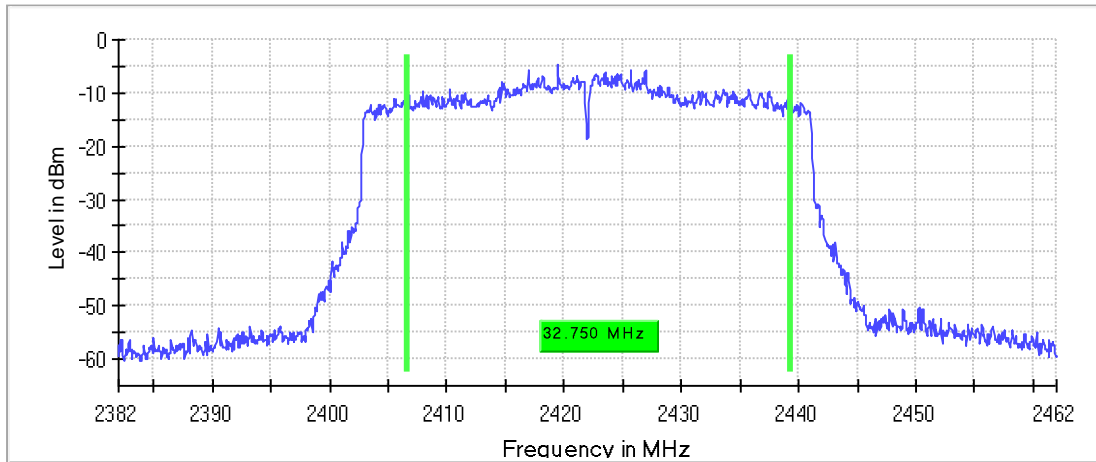
### 6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	32.750000	0.500000	---	2406.625000	2439.375000

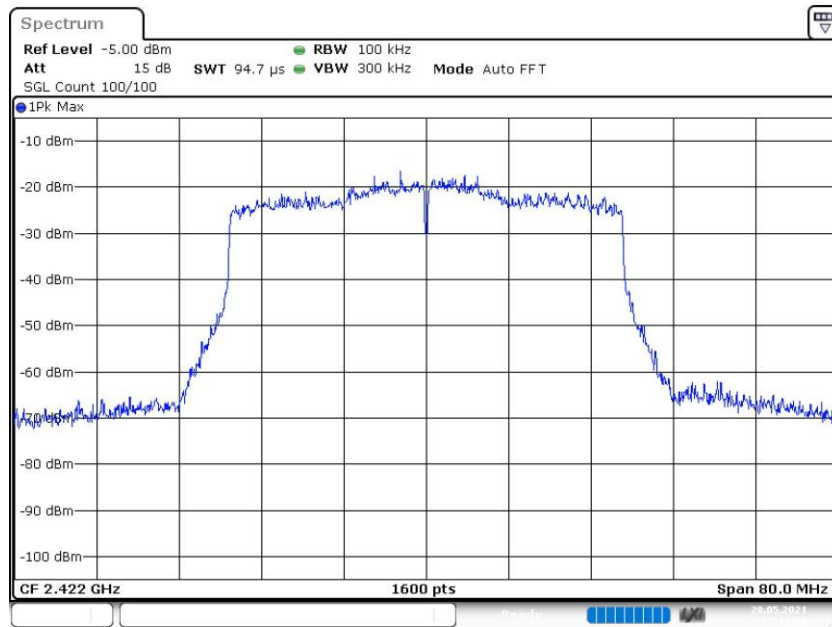
DUT Frequency (MHz)	Max Level (dBm)	Result
2422.000000	-4.7	PASS



6 dB Bandwidth



Bandwidth



Date: 28.MAY.2021 12:12:25

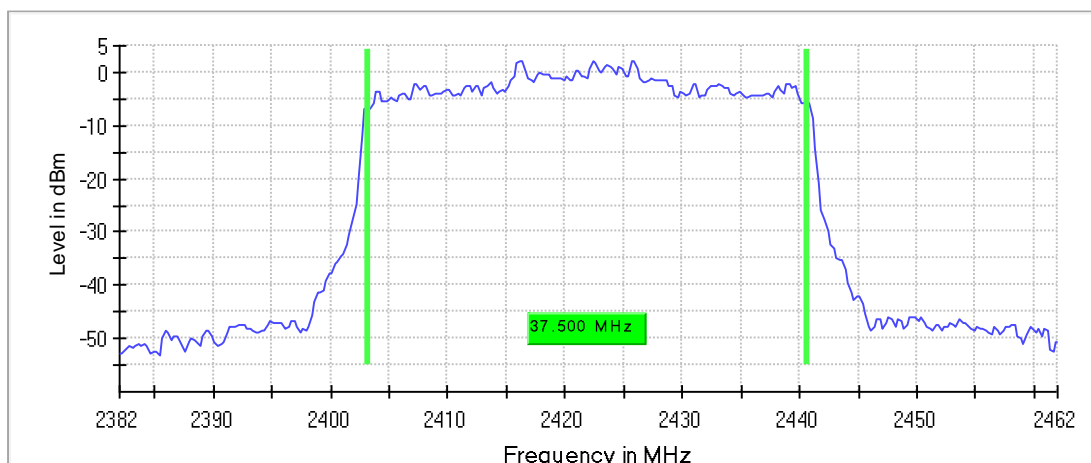
**Occupied Channel Bandwidth 99% (2422 MHz; 24.000 dBm; 40 MHz)**

**99 % Bandwidth**

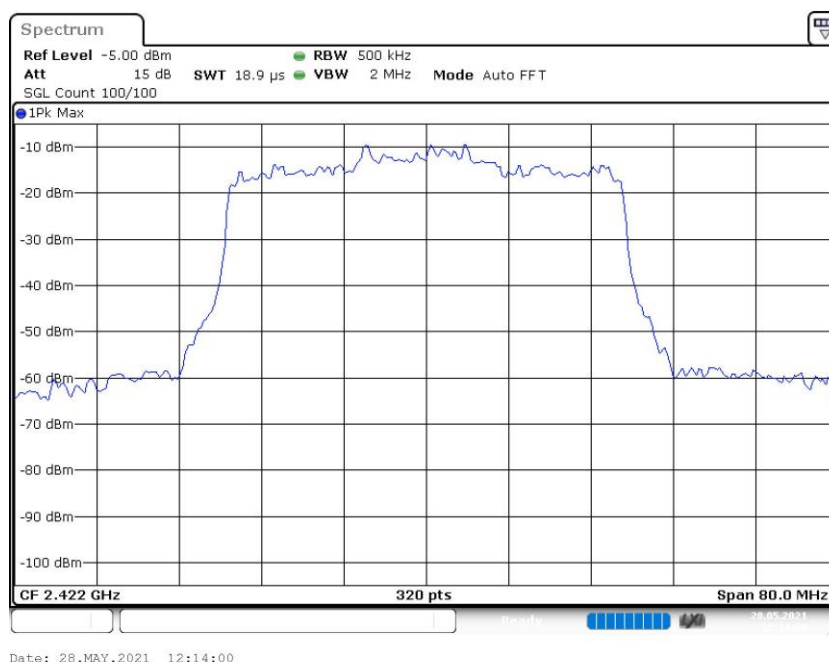
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2422.000000	37.500000	---	---	2403.125000	2440.625000

DUT Frequency (MHz)	Result
2422.000000	PASS

99 %Bandwidth



Bandwidth



**Tx Spurious Emission (2422 MHz; 24.000 dBm; 40 MHz)**

**Result**

DUT Frequency (MHz)	Result
2422.000000	PASS

**Final measurements**

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

**Pre Measurements**

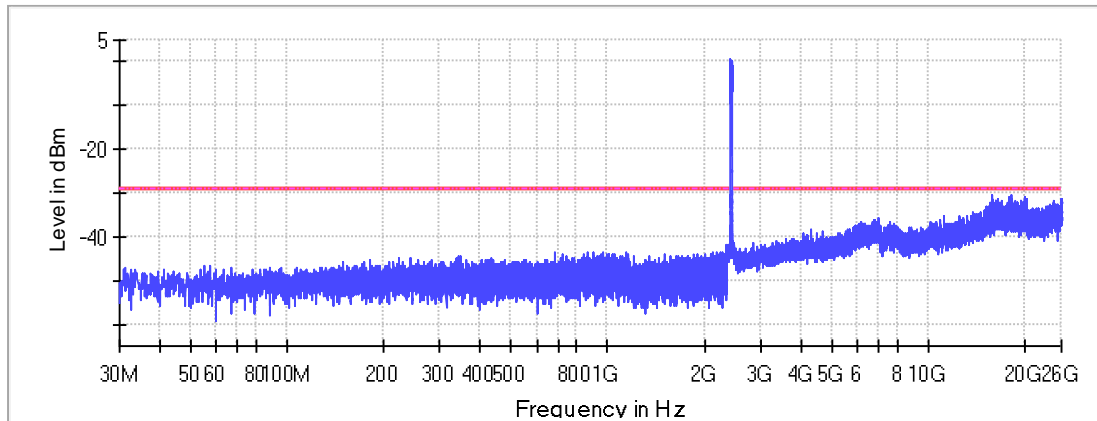
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
---	---	---	---

18239.430072	-30.2	0.9	-29.3
15878.300280	-30.5	1.2	-29.3
17883.019257	-30.9	1.6	-29.3
19891.412573	-30.9	1.6	-29.3
17867.587036	-31.0	1.7	-29.3
19880.389558	-31.0	1.7	-29.3
15895.202236	-31.1	1.8	-29.3
16456.641128	-31.1	1.8	-29.3
19893.617176	-31.1	1.8	-29.3
20250.027991	-31.2	1.9	-29.3
19892.147441	-31.2	1.9	-29.3
18219.588646	-31.2	1.9	-29.3
15889.323295	-31.2	1.9	-29.3
19878.184955	-31.3	2.0	-29.3
15895.937104	-31.3	2.0	-29.3

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit    - - - - Threshold    — Sum Level    × Critical    × Final Critical

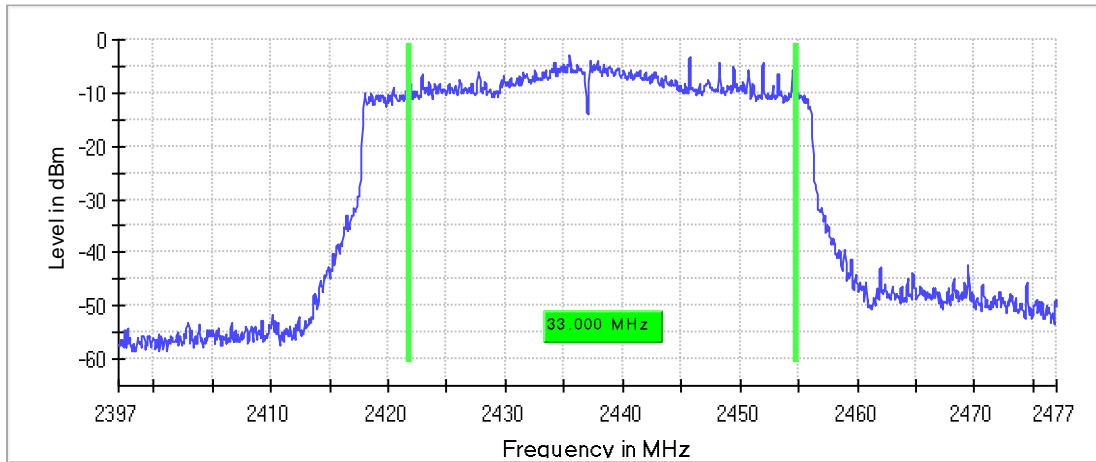
## Minimum Emission Bandwidth 6 dB (2437 MHz; 24.000 dBm; 40 MHz)

### 6 dB Bandwidth

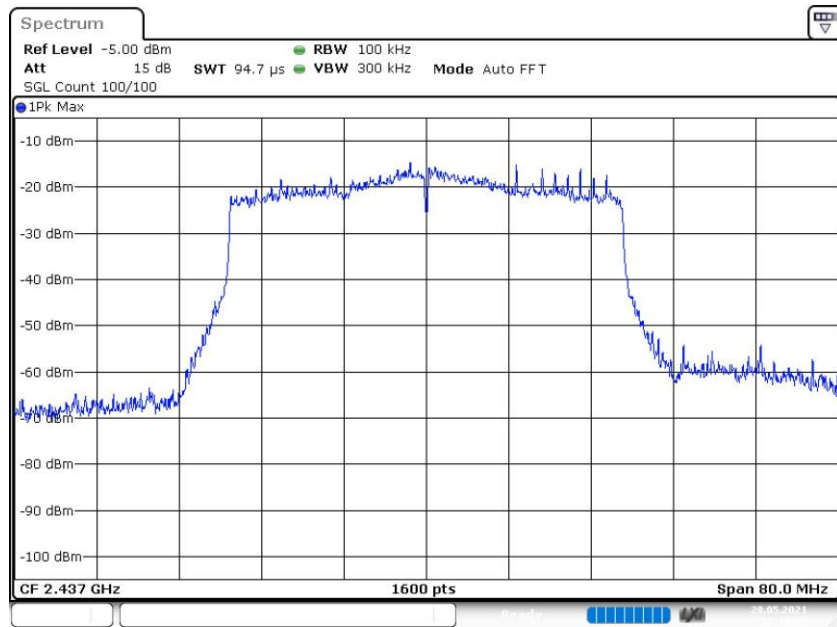
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	33.000000	0.500000	---	2421.875000	2454.875000

DUT Frequency (MHz)	Max Level (dBm)	Result
2437.000000	-2.9	PASS

6 dB Bandwidth



Bandwidth



Date: 28.MAY.2021 12:17:25

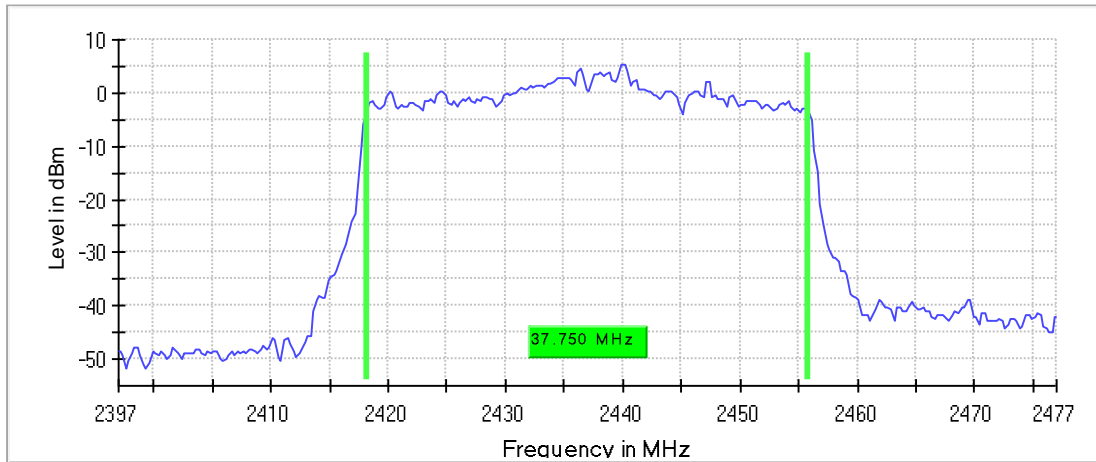
**Occupied Channel Bandwidth 99% (2437 MHz; 24.000 dBm; 40 MHz)**

**99 % Bandwidth**

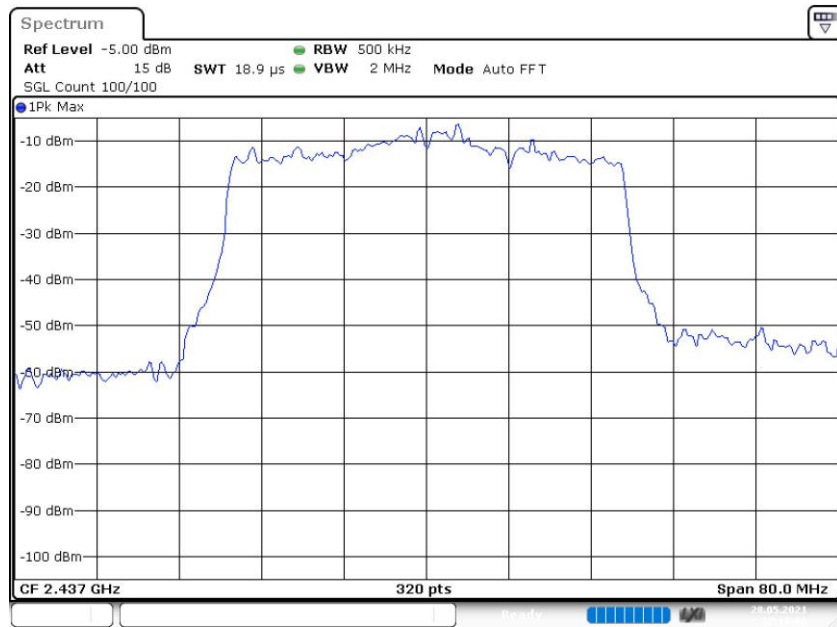
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2437.000000	37.750000	---	---	2418.125000	2455.875000

DUT Frequency (MHz)	Result
2437.000000	PASS

99 %Bandwidth



Bandwidth



Date: 28.MAY.2021 12:18:34

## Tx Spurious Emission (2437 MHz; 24.000 dBm; 40 MHz)

### Result

DUT Frequency (MHz)	Result
2437.000000	PASS

### Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

### Pre Measurements

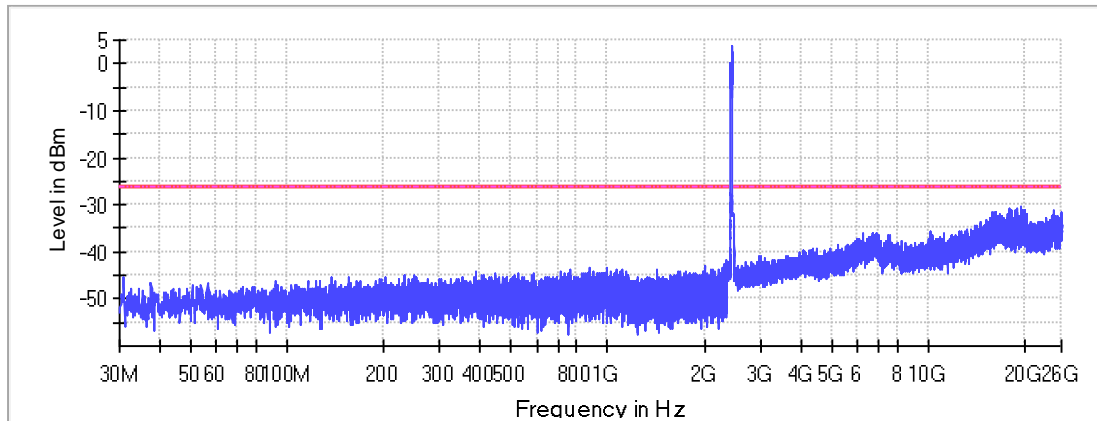
Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
-----------------	-------------	-------------	-------------

19511.485993	-30.1	3.8	-26.3
18911.099114	-30.8	4.5	-26.3
17857.298889	-30.9	4.6	-26.3
17858.033757	-31.0	4.7	-26.3
19525.448478	-31.0	4.7	-26.3
18235.755734	-31.1	4.8	-26.3
18232.816264	-31.1	4.8	-26.3
19898.026382	-31.1	4.8	-26.3
19852.464587	-31.2	4.8	-26.3
17868.321904	-31.2	4.9	-26.3
19769.424541	-31.3	4.9	-26.3
17904.330419	-31.3	5.0	-26.3
24524.753172	-31.3	5.0	-26.3
19873.775749	-31.3	5.0	-26.3
18553.953431	-31.3	5.0	-26.3

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious



— Limit    - - - - Threshold    — SumLevel    × Critical    × Final Critical

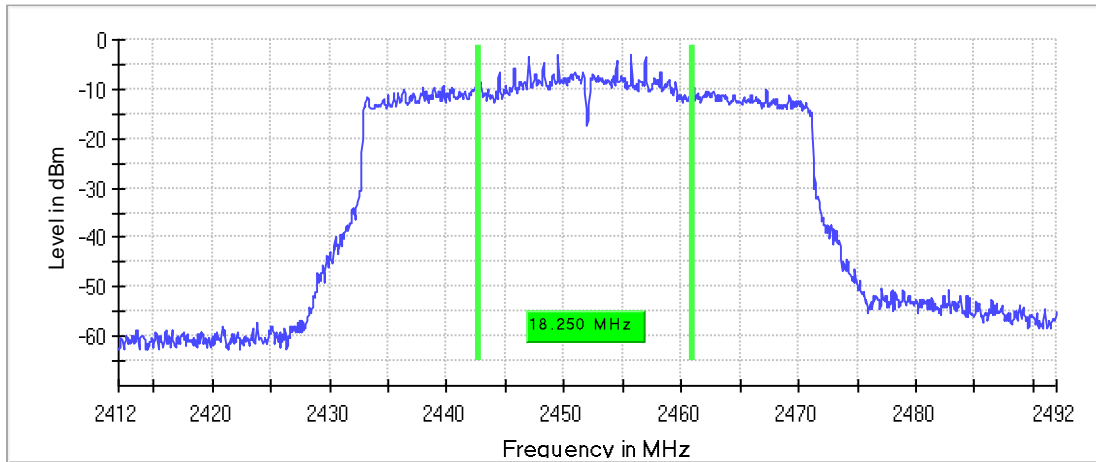
## Minimum Emission Bandwidth 6 dB (2452 MHz; 24.000 dBm; 40 MHz)

### 6 dB Bandwidth

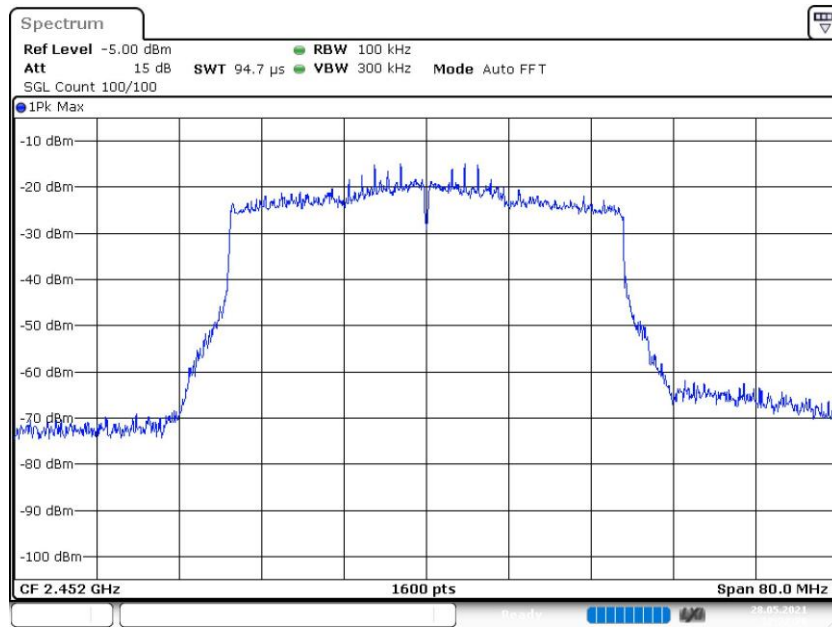
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	18.250000	0.500000	---	2442.775000	2461.025000

DUT Frequency (MHz)	Max Level (dBm)	Result
2452.000000	-3.1	PASS

6 dB Bandwidth



Bandwidth



Date: 28.MAY.2021 12:22:28

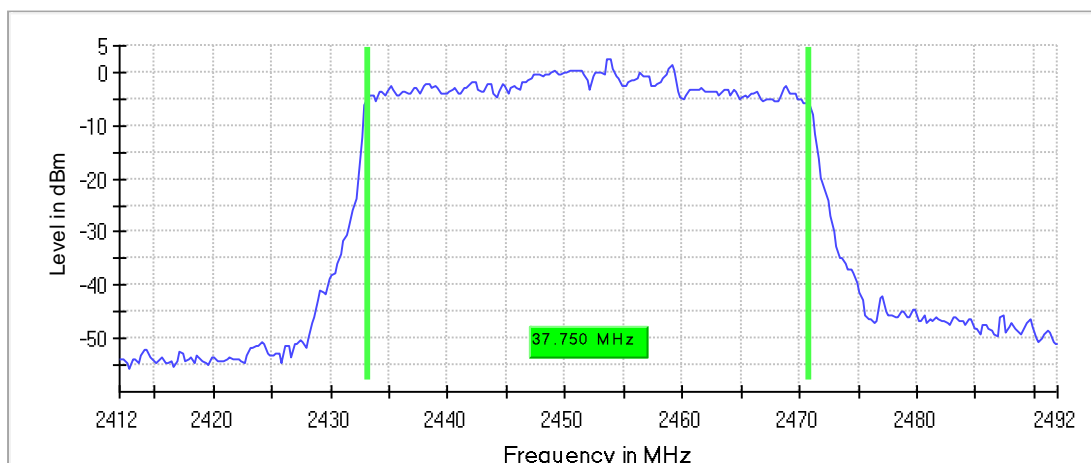
**Occupied Channel Bandwidth 99% (2452 MHz; 24.000 dBm; 40 MHz)**

**99 % Bandwidth**

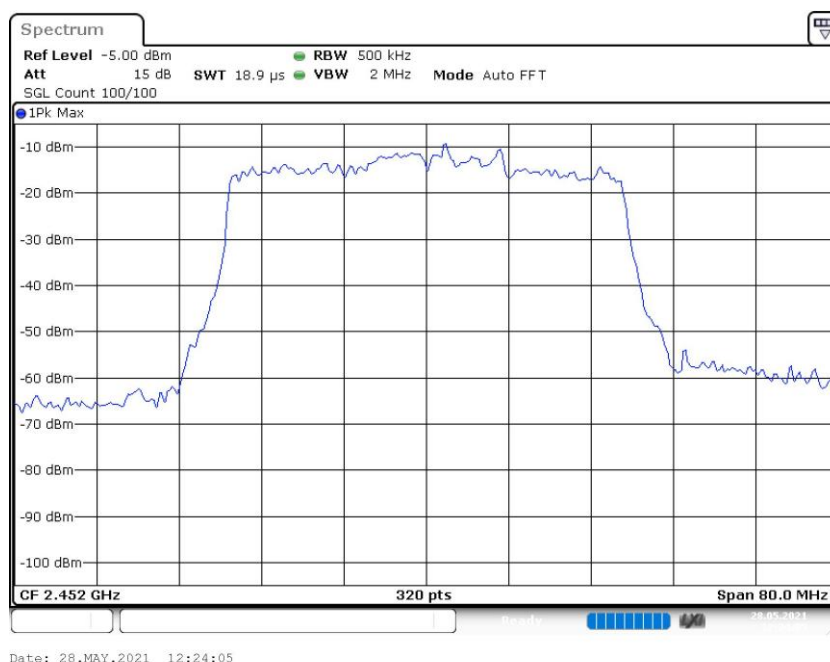
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2452.000000	37.750000	---	---	2433.125000	2470.875000

DUT Frequency (MHz)	Result
2452.000000	PASS

99 %Bandwidth



Bandwidth



**Tx Spurious Emission (2452 MHz; 24.000 dBm; 40 MHz)**

**Result**

DUT Frequency (MHz)	Result
2452.000000	PASS

**Final measurements**

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
---	---	---	---	---	---

**Pre Measurements**

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
17905.800155	-30.4	1.2	-29.3



19936.239500	-30.8	1.5	-29.3
25937.168815	-30.8	1.5	-29.3
18226.202455	-30.8	1.6	-29.3
19917.132941	-30.9	1.6	-29.3
18223.262984	-31.0	1.7	-29.3
19547.494508	-31.2	2.0	-29.3
19891.412573	-31.3	2.0	-29.3
16804.968399	-31.3	2.0	-29.3
18219.588646	-31.3	2.0	-29.3
18852.309701	-31.3	2.0	-29.3
19922.277015	-31.3	2.1	-29.3
25973.912198	-31.5	2.2	-29.3
18176.966321	-31.6	2.3	-29.3
24678.340513	-31.6	2.3	-29.3

## Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	2350.000000	1	1
2350.000000	2483.500000	2	1
2483.500000	26000.000000	1	1

Spurious

