UBB-XG UNII-2a Annex

Summary

| Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5260.000	30.0	20.000000	PASS
RF output power	5260.000	30.0	20.000000	PASS
Power Spectral Density	5260.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5260.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5280.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5280.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5320.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5320.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5270.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5270.000	30.0	40.000000	PASS
Emission Bandwidth 26 dB	5310.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5310.000	30.0	40.000000	PASS
Emission Bandwidth 26 dB	5290.000	30.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5290.000	30.0	80.000000	PASS

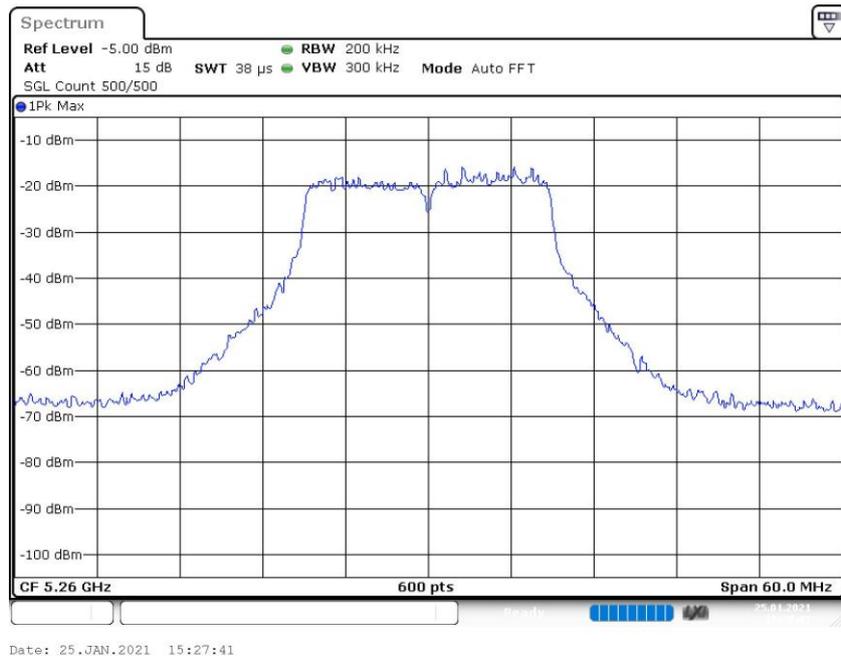## Emission Bandwidth 26 dB (5260 MHz; 30.000 dBm; 20 MHz)

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	21.500000	---	---	5249.050000	5270.550000

DUT Frequency (MHz)	Max Level (dBm)	Result
5260.000000	-1.7	PASS

26 dB Bandwidth

Bandwidth

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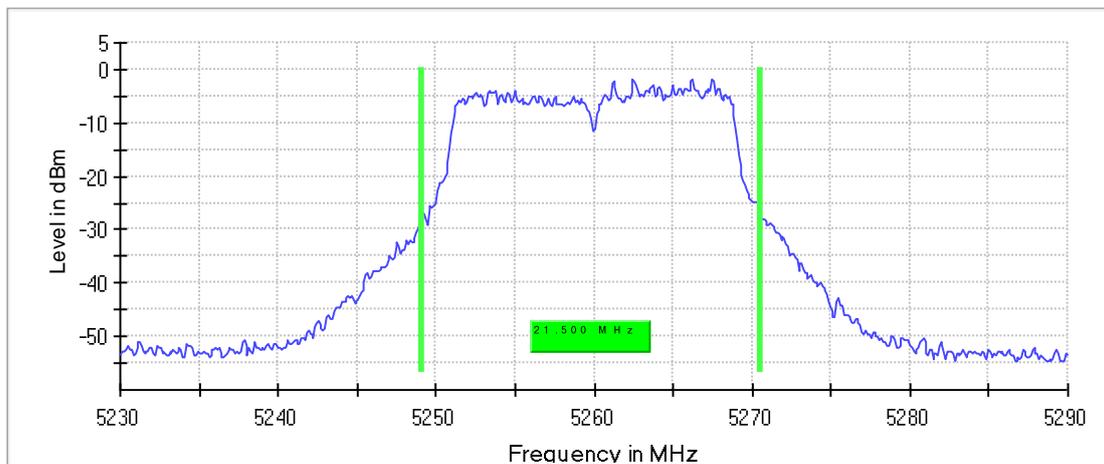
Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.23000 GHz	5.23000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	300.000 kHz	>= 240.000 kHz
SweepPoints	600	~ 600
Sweeptime	37.969 µs	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

RF output power (5260 MHz; 30.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5260.000000	12.9	13.0	26.9	96.451	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

Power Spectral Density (5260 MHz; 30.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5260.000000	5252.673267	-1.132	3.0	PASS

Ports

Port	State
1	used
2	used

Measurement

| Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 40
Sweeptime	2.020 ms	2.020 ms
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	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Occupied Channel Bandwidth 99% (5260 MHz; 30.000 dBm; 20 MHz)

99 % Bandwidth

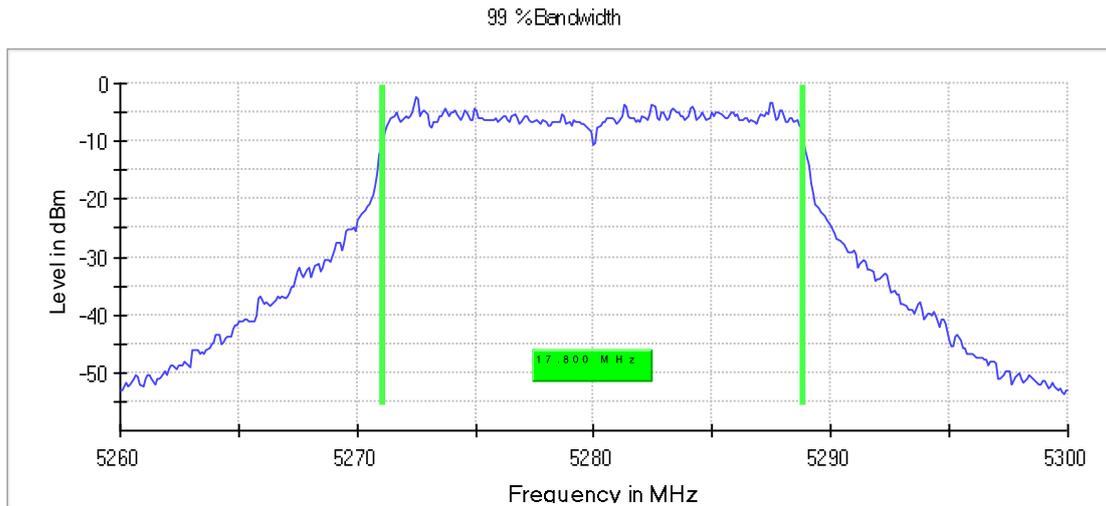| DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	17.900000	---	---	5251.050000	5268.950000

DUT Frequency (MHz)	Result
5260.000000	PASS

99 % Bandwidth
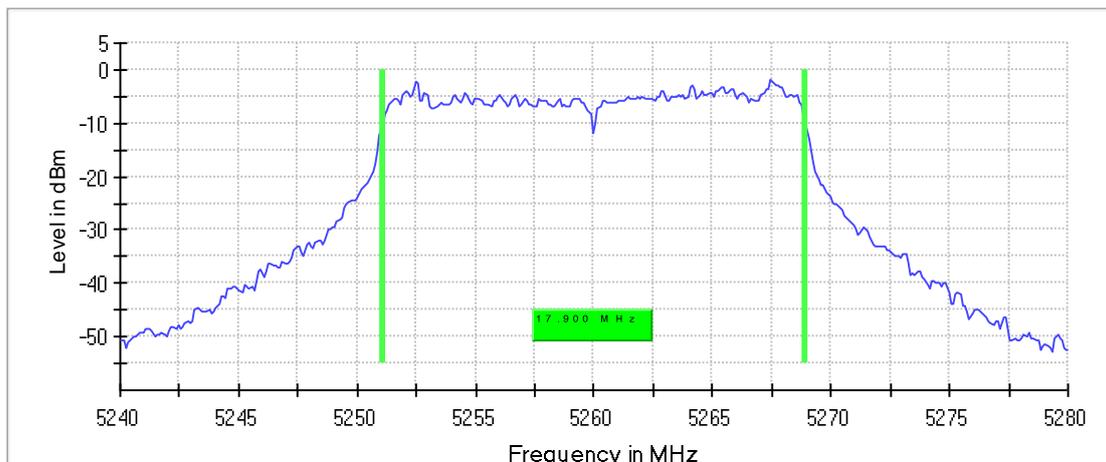
Bandwidth
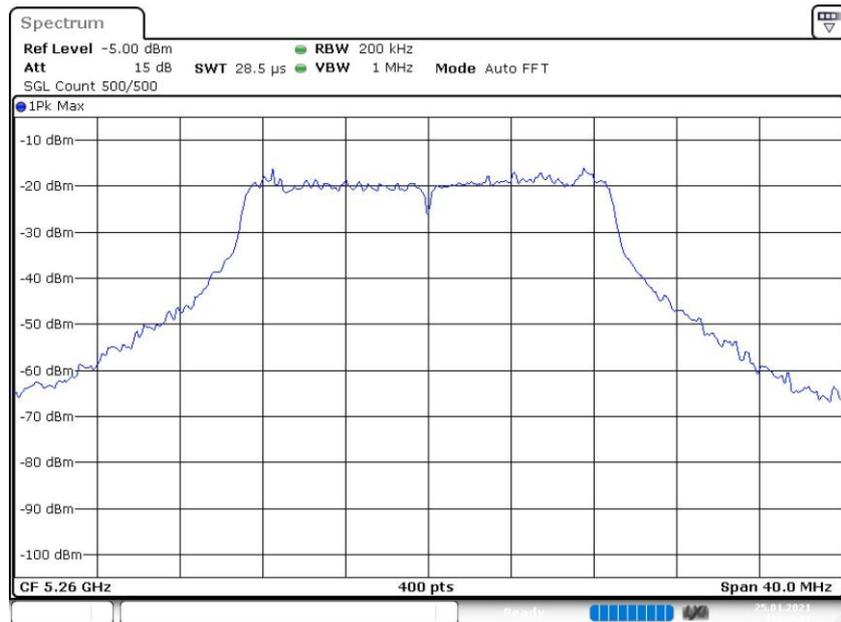
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Measurement

| Setting	Instrument Value	Target Value
Start Frequency	5.24000 GHz	5.24000 GHz
Stop Frequency	5.28000 GHz	5.28000 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	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5280 MHz; 30.000 dBm; 20 MHz)

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5280.000000	22.100000	---	---	5268.950000	5291.050000

DUT Frequency (MHz)	Max Level (dBm)	Result
5280.000000	-3.3	PASS

26 dB Bandwidth

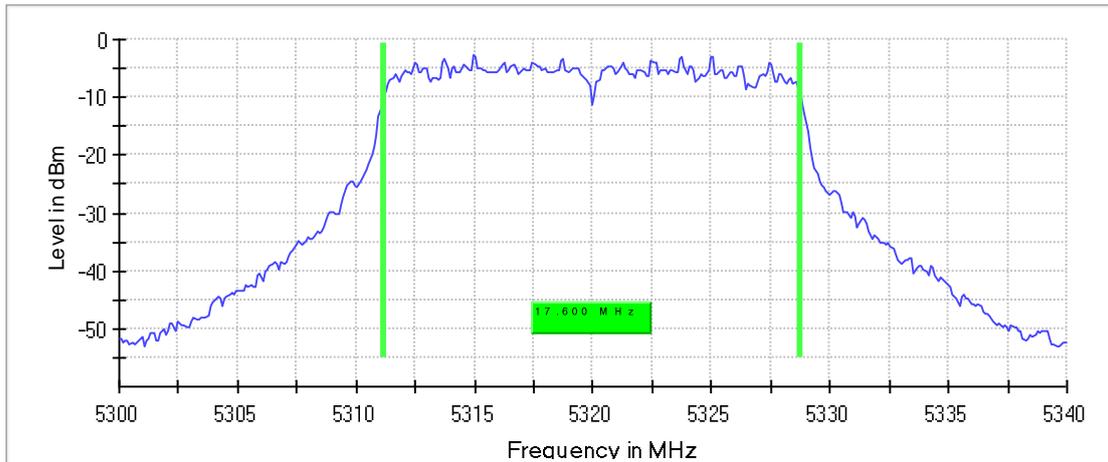Bandwidth

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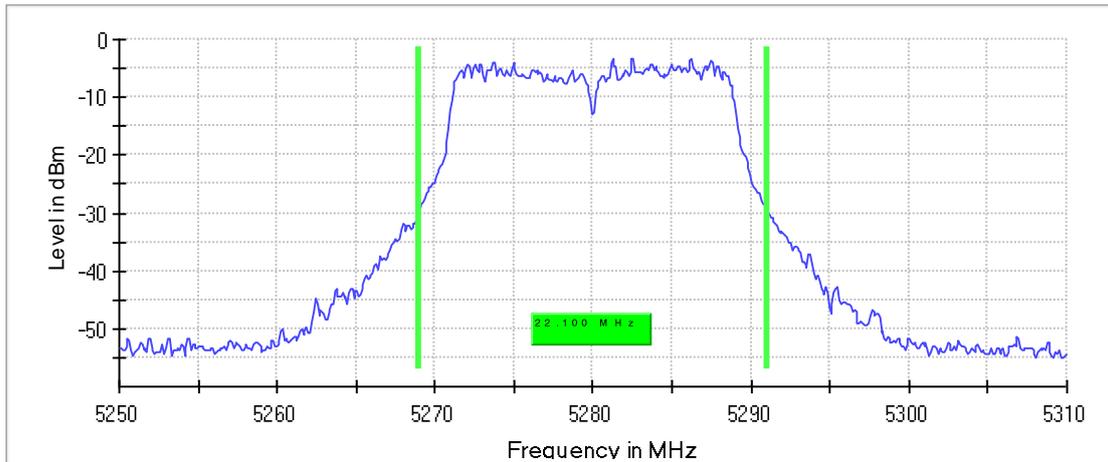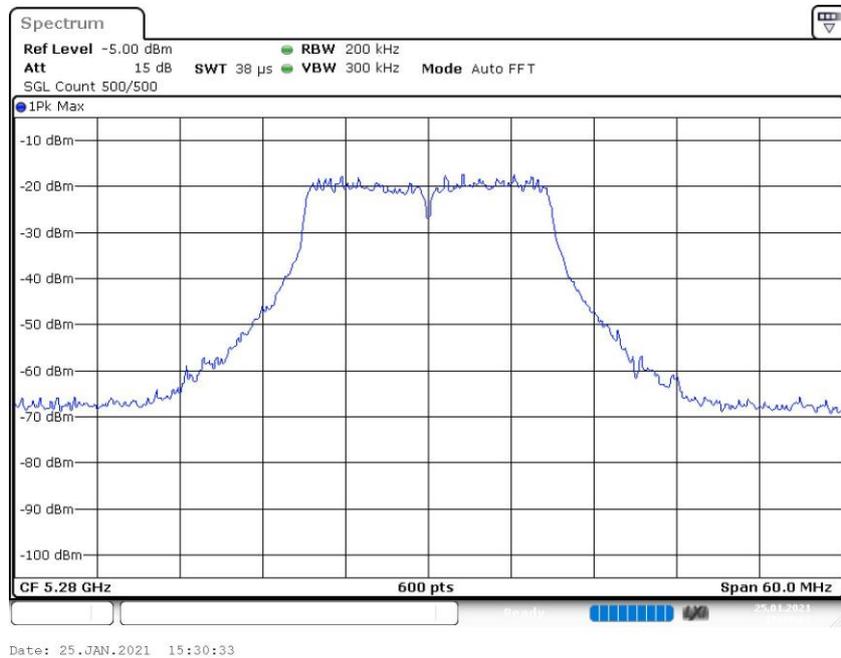
Occupied Channel Bandwidth 99% (5280 MHz; 30.000 dBm; 20 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5280.000000	17.800000	---	---	5271.050000	5288.850000

DUT Frequency (MHz)	Result
5280.000000	PASS

99 % Bandwidth

Bandwidth

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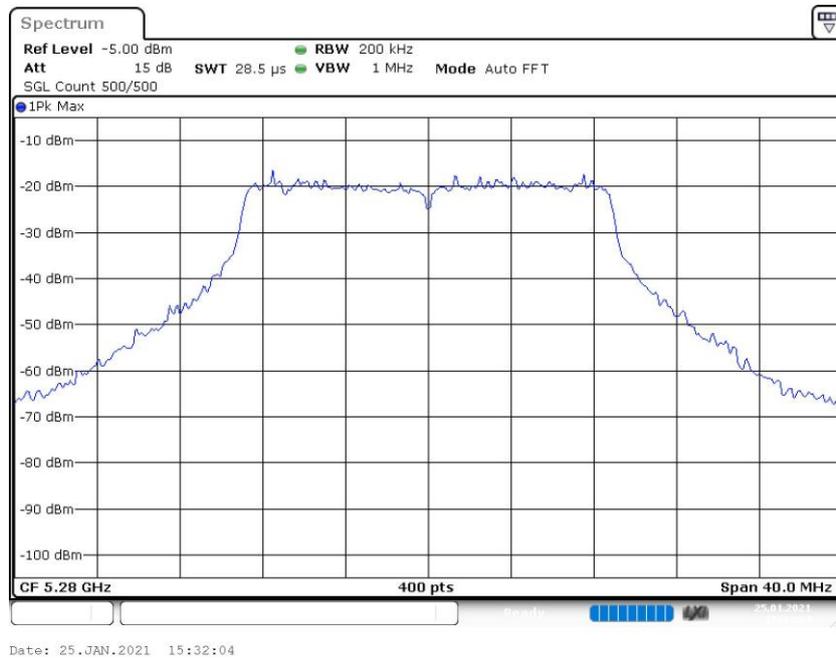
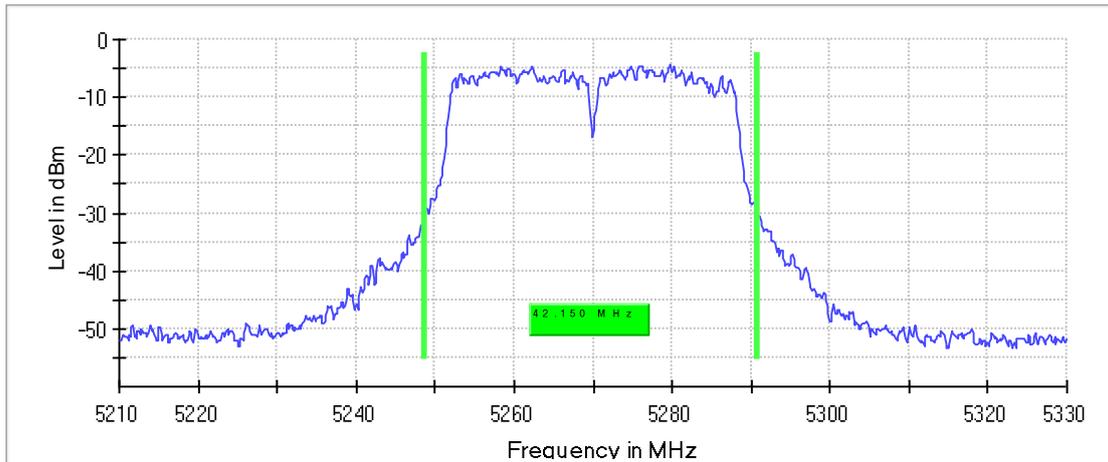# Emission Bandwidth 26 dB (5320 MHz; 30.000 dBm; 20 MHz)

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	21.200000	---	---	5309.350000	5330.550000

DUT Frequency (MHz)	Max Level (dBm)	Result
5320.000000	-2.6	PASS

26 dB Bandwidth

Bandwidth

Date: 25.JAN.2021 15:32:17
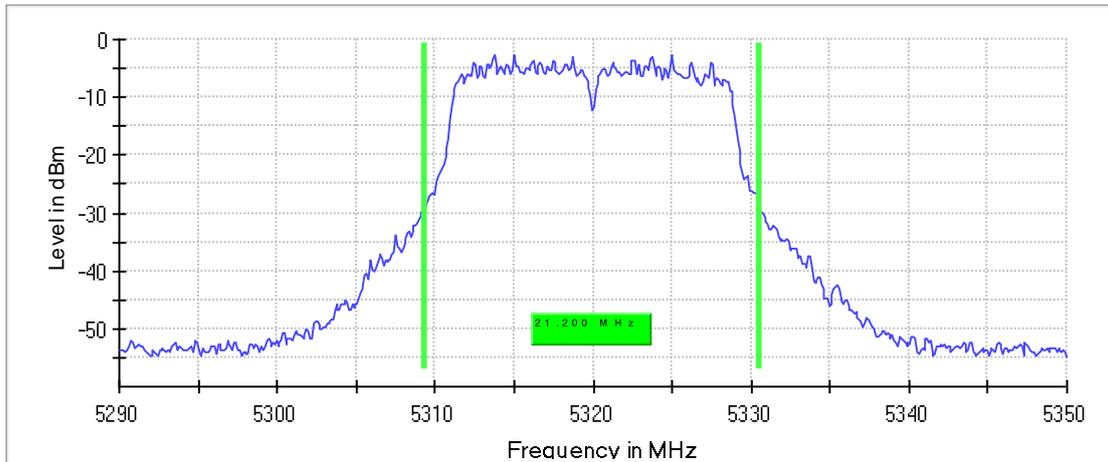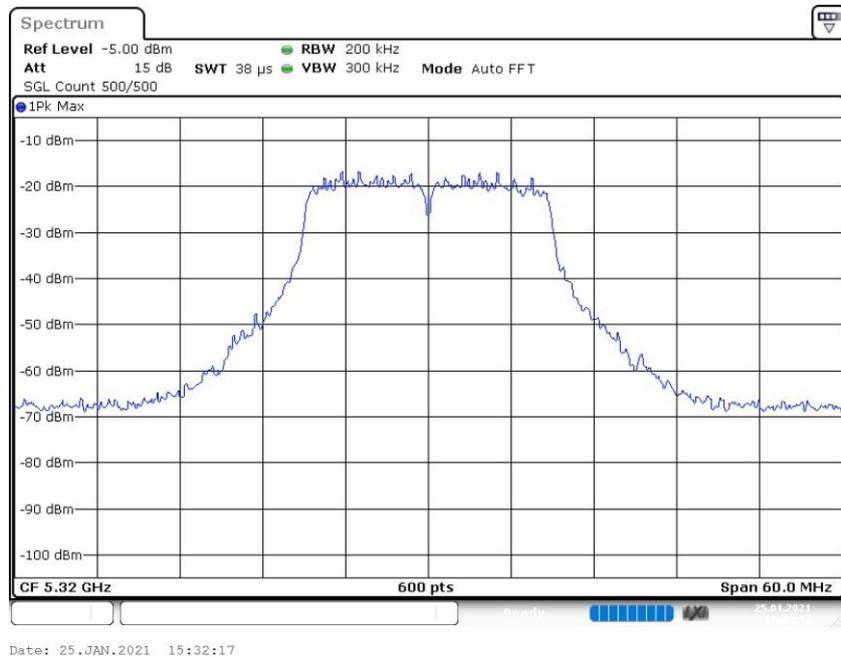
Occupied Channel Bandwidth 99% (5320 MHz; 30.000 dBm; 20 MHz)

99 % Bandwidth

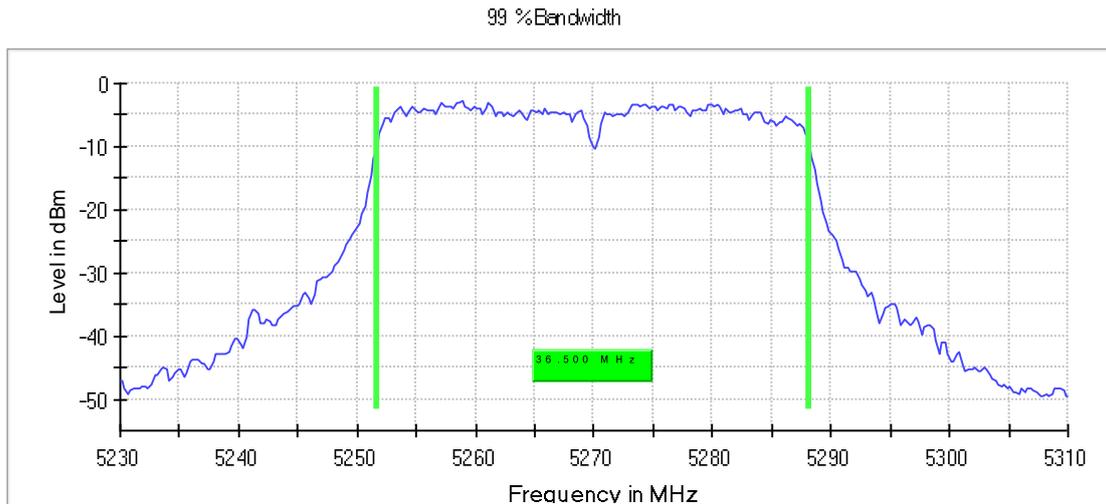| DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	17.600000	---	---	5311.150000	5328.750000

DUT Frequency (MHz)	Result
5320.000000	PASS

99 % Bandwidth

Bandwidth

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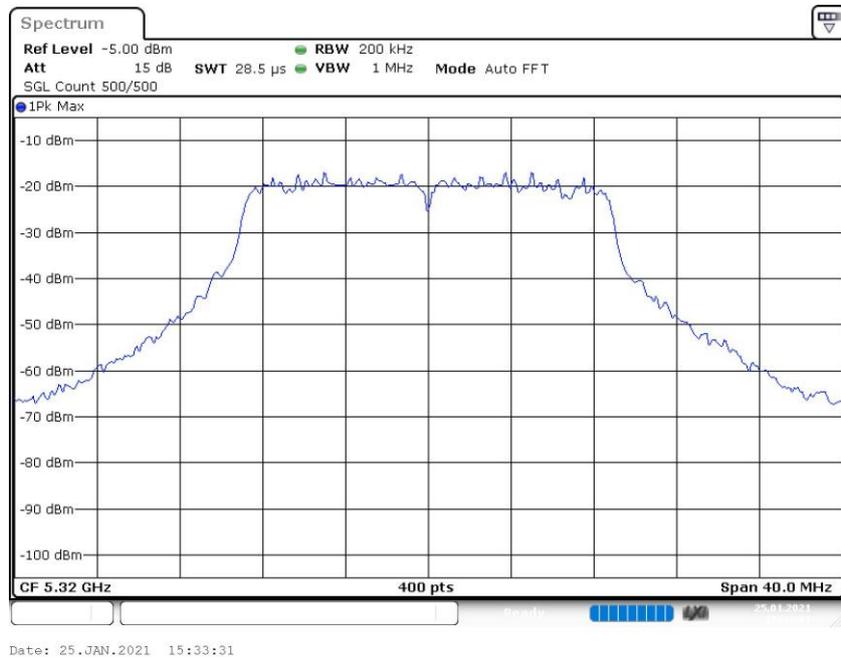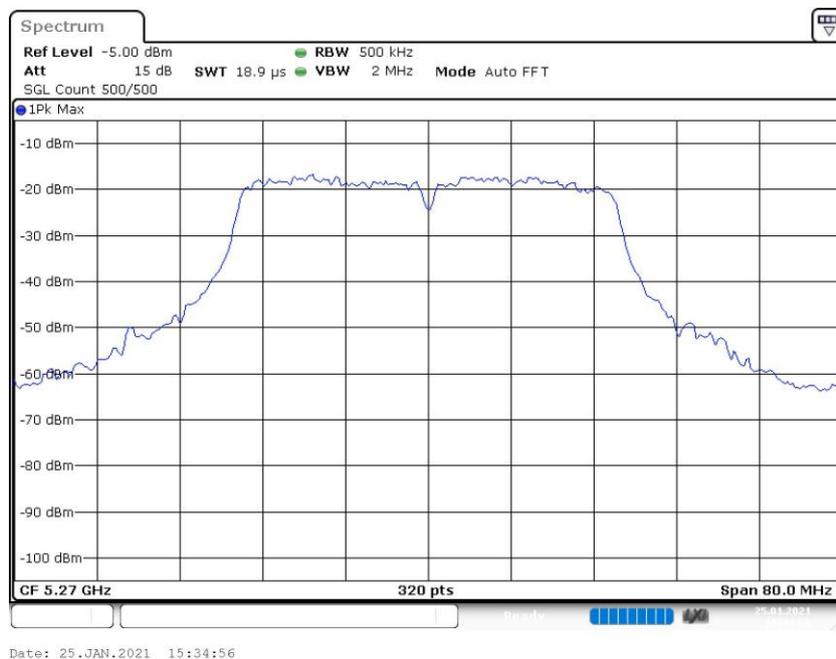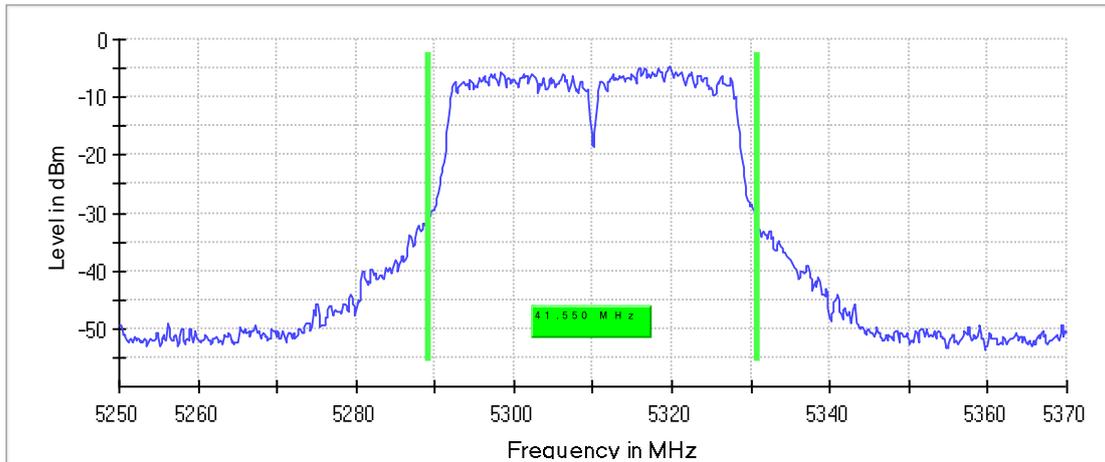
Emission Bandwidth 26 dB (5270 MHz; 30.000 dBm; 40 MHz)

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5270.000000	42.150000	---	---	5248.625000	5290.775000

DUT Frequency (MHz)	Max Level (dBm)	Result
5270.000000	-4.5	PASS

26 dB Bandwidth

Bandwidth

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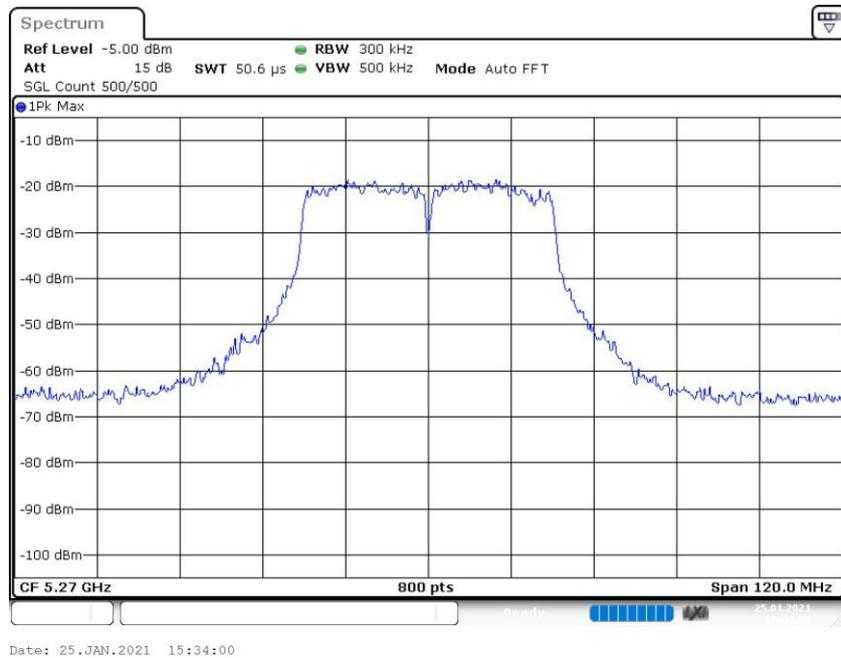
Occupied Channel Bandwidth 99% (5270 MHz; 30.000 dBm; 40 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5270.000000	36.500000	---	---	5251.625000	5288.125000

DUT Frequency (MHz)	Result
5270.000000	PASS

99 % Bandwidth

Bandwidth

Date: 25.JAN.2021   15:34:56

Emission Bandwidth 26 dB (5310 MHz; 30.000 dBm; 40 MHz)

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5310.000000	41.550000	---	---	5289.225000	5330.775000

DUT Frequency (MHz)	Max Level (dBm)	Result
5310.000000	-4.5	PASS

26 dB Bandwidth
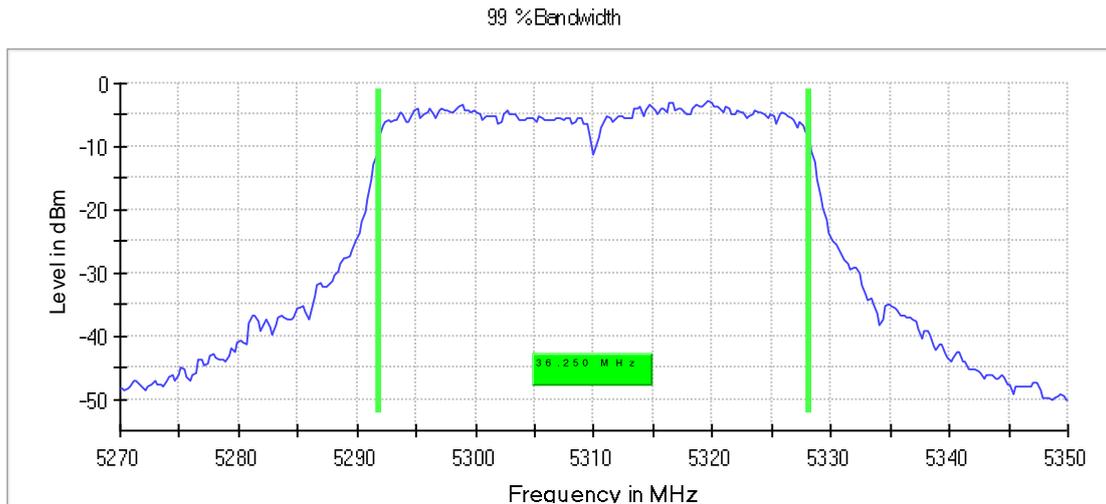

Bandwidth

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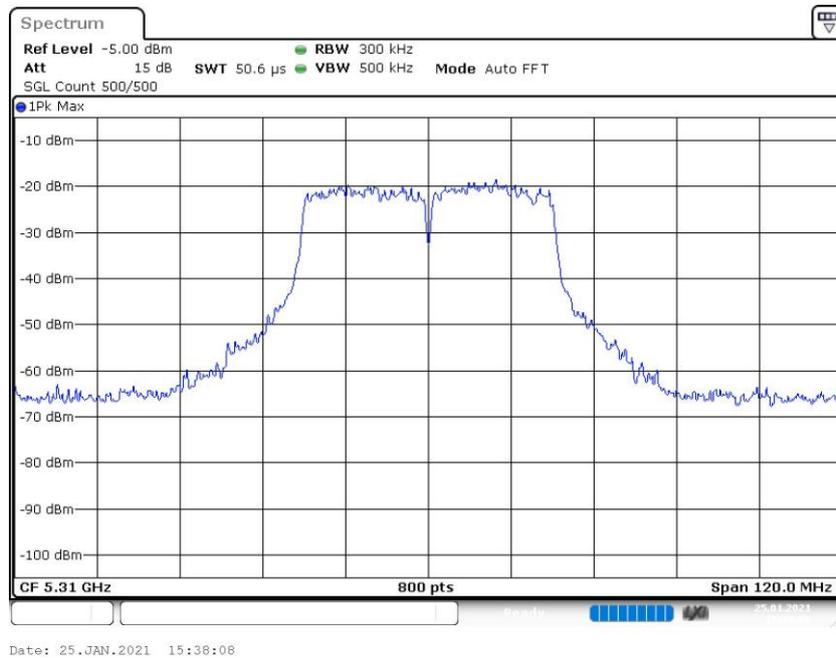
Occupied Channel Bandwidth 99% (5310 MHz; 30.000 dBm; 40 MHz)

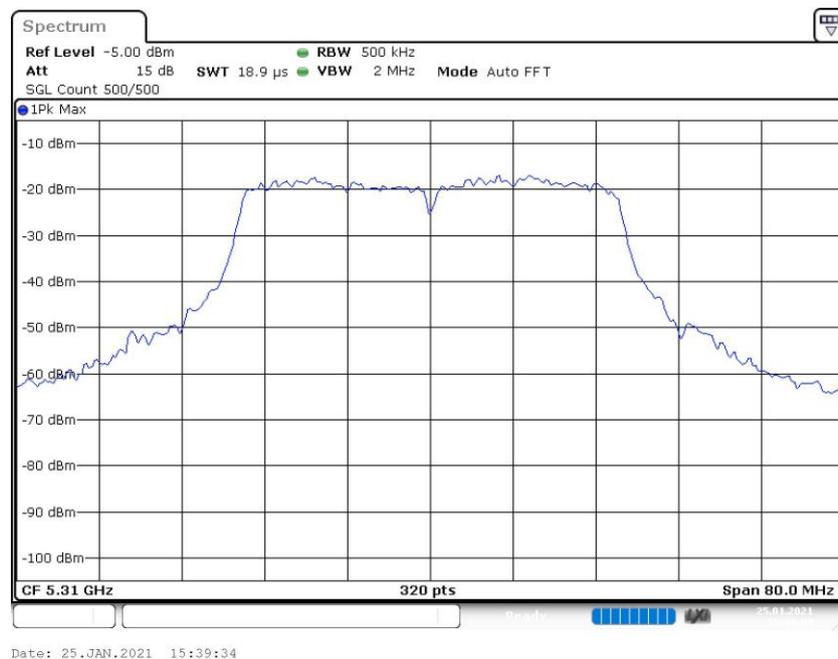### 99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5310.000000	36.250000	---	---	5291.875000	5328.125000

DUT Frequency (MHz)	Result
5310.000000	PASS

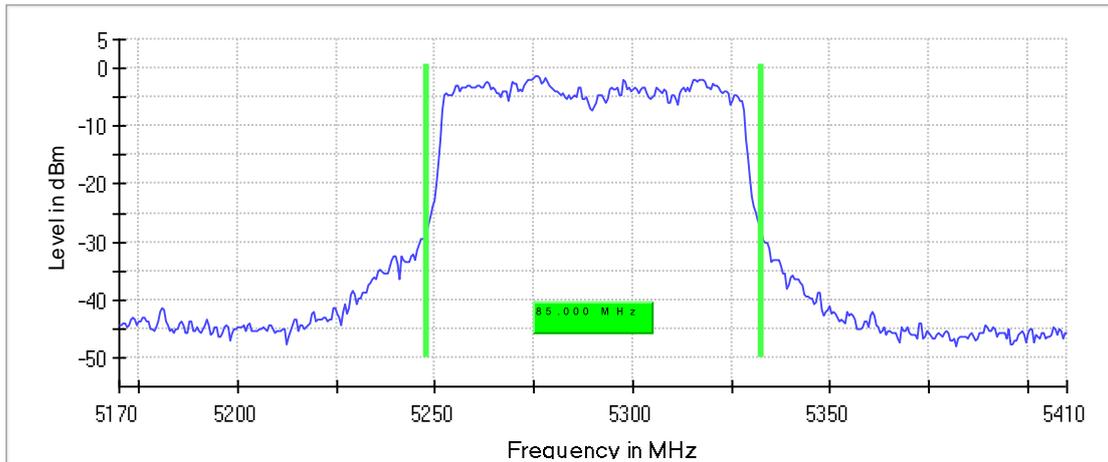99 % Bandwidth

Bandwidth

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Emission Bandwidth 26 dB (5290 MHz; 30.000 dBm; 80 MHz)

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5290.000000	85.000000	---	---	5247.750000	5332.750000

DUT Frequency (MHz)	Max Level (dBm)	Result
5290.000000	-1.4	PASS

26 dB Bandwidth

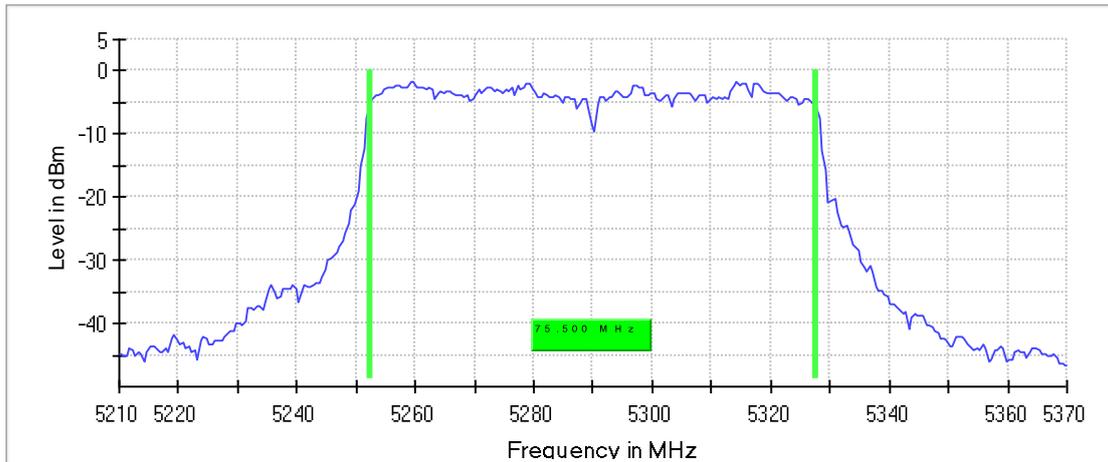Bandwidth

Date: 25.JAN.2021 15:40:12
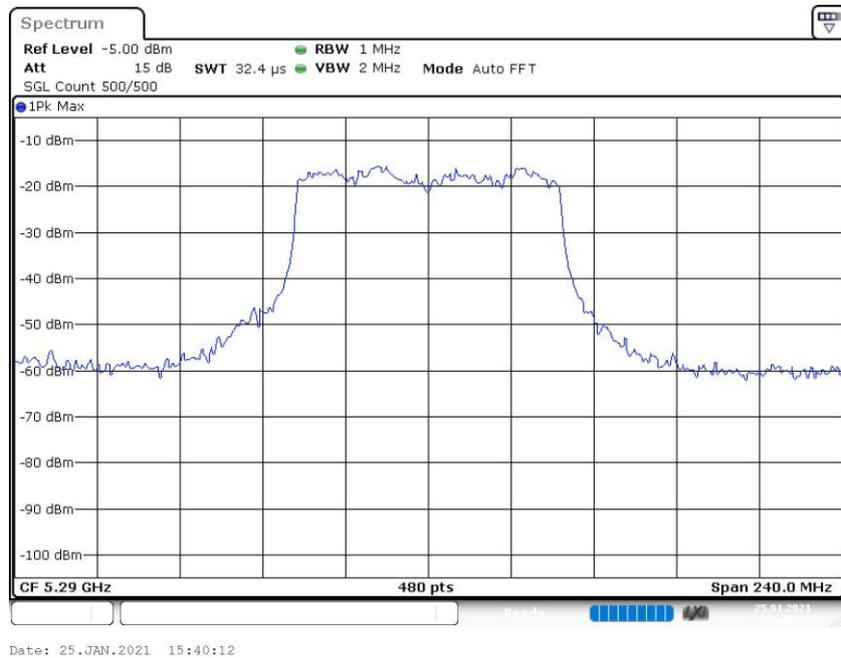
Occupied Channel Bandwidth 99% (5290 MHz; 30.000 dBm; 80 MHz)

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5290.000000	75.500000	---	---	5252.250000	5327.750000

DUT Frequency (MHz)	Result
5290.000000	PASS

99 % Bandwidth

Bandwidth

Date: 25.JAN.2021 15:41:12