

U6-Extender UNII-1 Annex

Summary – ax Mode

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5180.000	30.0	20.000000	PASS
RF output power	5180.000	30.0	20.000000	PASS
Power Spectral Density	5180.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5180.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5210.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5210.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5240.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5240.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5190.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5190.000	30.0	40.000000	PASS
Emission Bandwidth 26 dB	5230.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5230.000	30.0	40.000000	PASS
Emission Bandwidth 26 dB	5210.000	30.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5210.000	30.0	80.000000	PASS

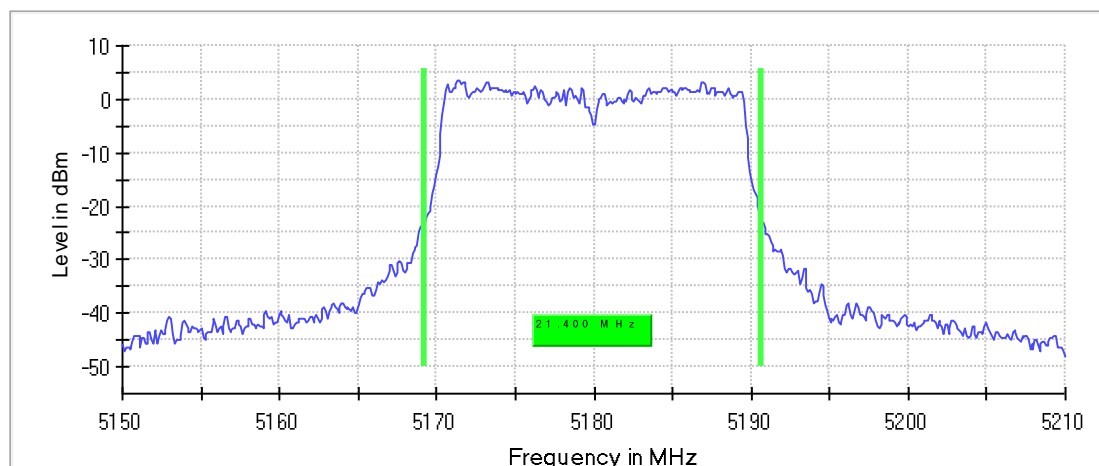
Emission Bandwidth 26 dB (5180 MHz; 30.000 dBm; 20 MHz)

26 dB Bandwidth

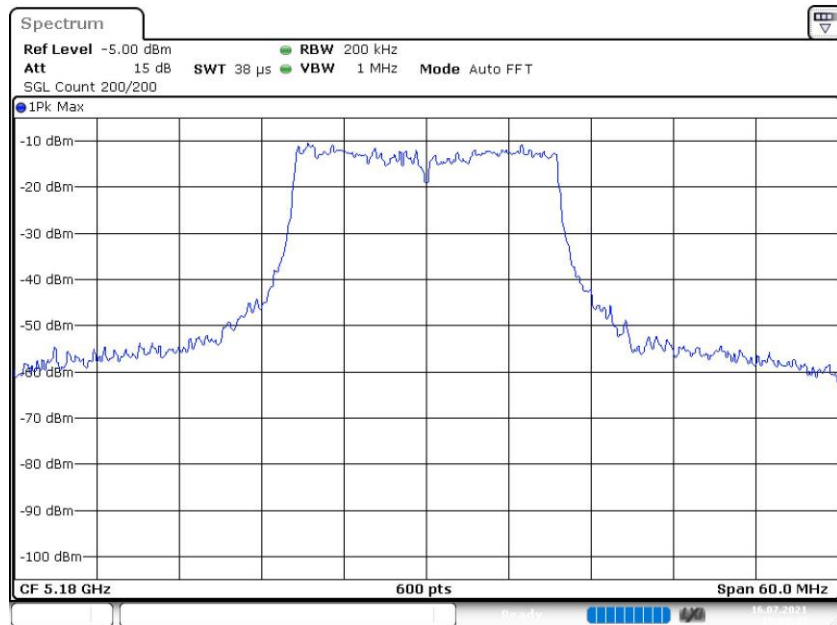
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5180.000000	21.400000	---	---	5169.250000	5190.650000

DUT Frequency (MHz)	Max Level (dBm)	Result
5180.000000	3.6	PASS

26 dB Bandwidth



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.21000 GHz	5.21000 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	600	~ 600
Sweptime	37.969 µs	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5180 MHz; 30.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5180.000000	22.9	30.0	22.9	85.898	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 (5180 MHz; 30.000 dBm; 20 MHz)

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
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5180.000000	5188.316832	7.414	17.0	PASS
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Ports

Port	State
1	used
2	used
3	used
4	used

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.17000 GHz	5.17000 GHz
Stop Frequency	5.19000 GHz	5.19000 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	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

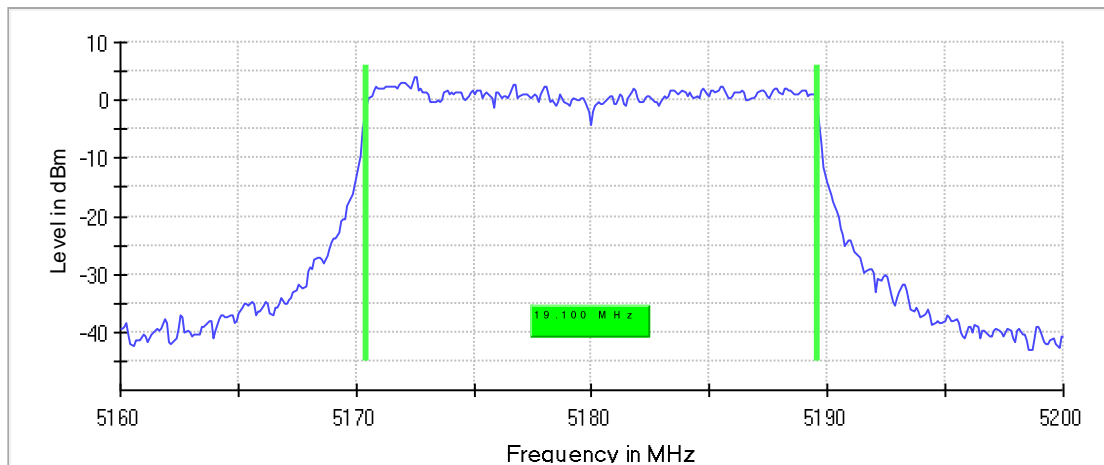
Occupied Channel Bandwidth 99% (5180 MHz; 30.000 dBm; 20 MHz)

99 % Bandwidth

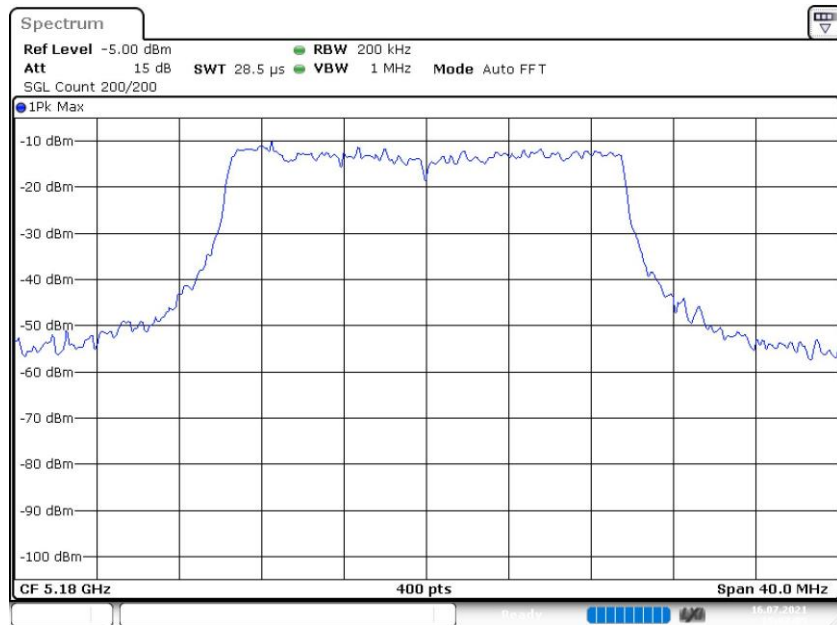
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5180.000000	19.100000	---	---	5170.450000	5189.550000

DUT Frequency (MHz)	Result
5180.000000	PASS

99 %Bandwidth



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 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	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

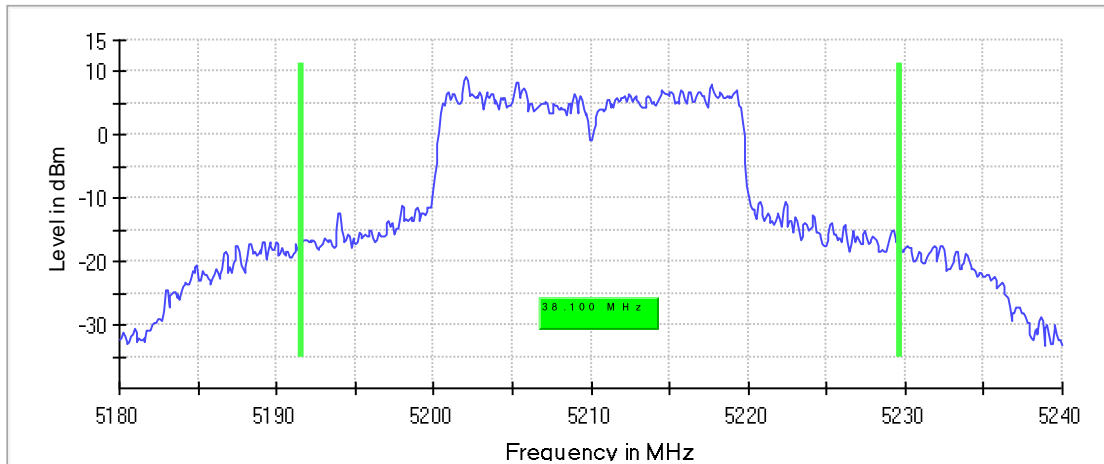
Emission Bandwidth 26 dB (5210 MHz; 30.000 dBm; 20 MHz)

26 dB Bandwidth

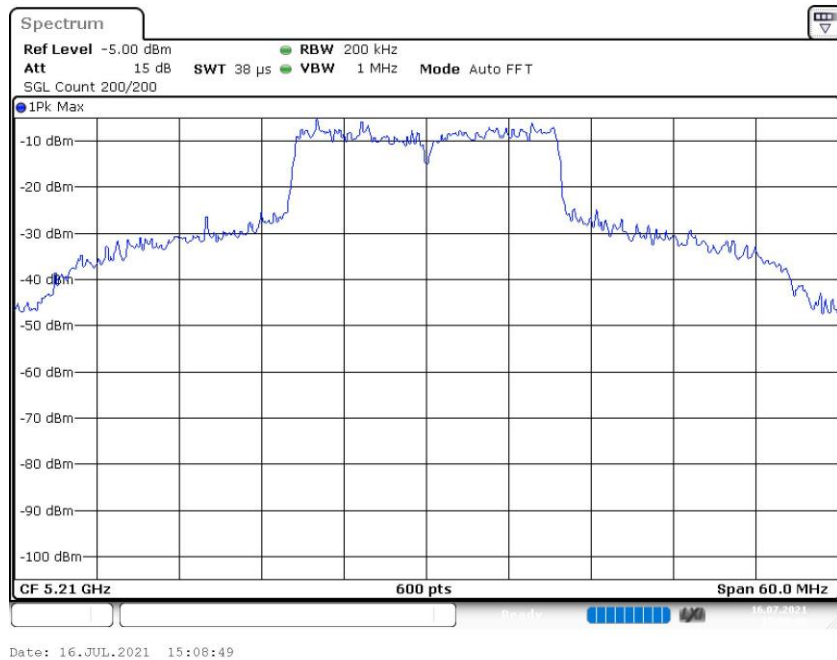
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	38.100000	---	---	5191.550000	5229.650000

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	9.3	PASS

26 dB Bandwidth



Bandwidth



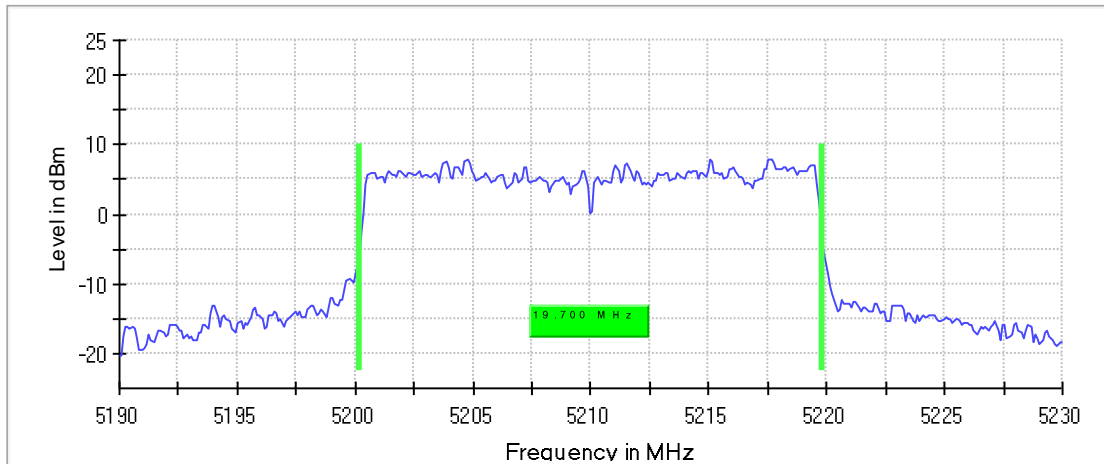
Occupied Channel Bandwidth 99% (5210 MHz; 30.000 dBm; 20 MHz)

99 % Bandwidth

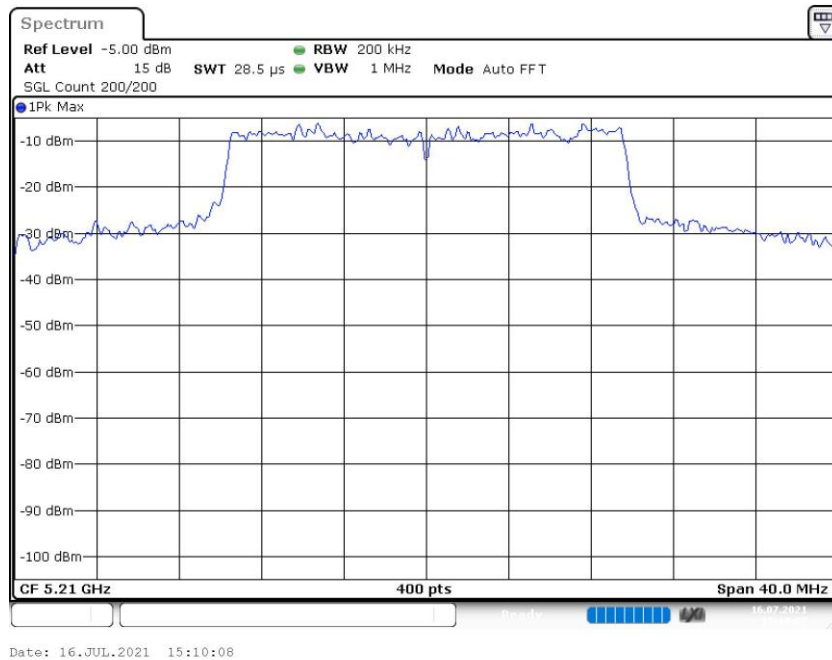
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	19.700000	---	---	5200.150000	5219.850000

DUT Frequency (MHz)	Result
5210.000000	PASS

99 %Bandwidth



Bandwidth



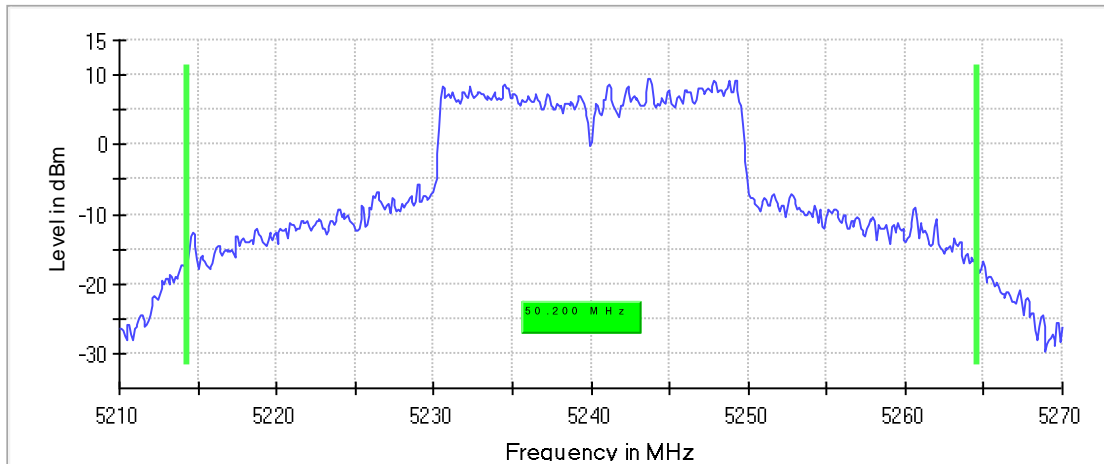
Emission Bandwidth 26 dB (5240 MHz; 30.000 dBm; 20 MHz)

26 dB Bandwidth

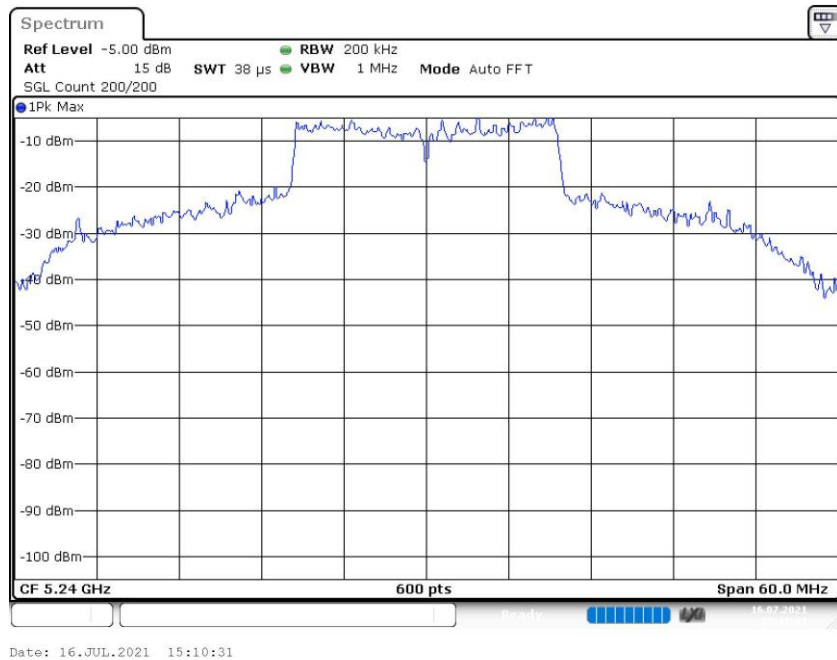
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	50.200000	---	---	5214.350000	5264.550000

DUT Frequency (MHz)	Max Level (dBm)	Result
5240.000000	9.5	PASS

26 dB Bandwidth



Bandwidth



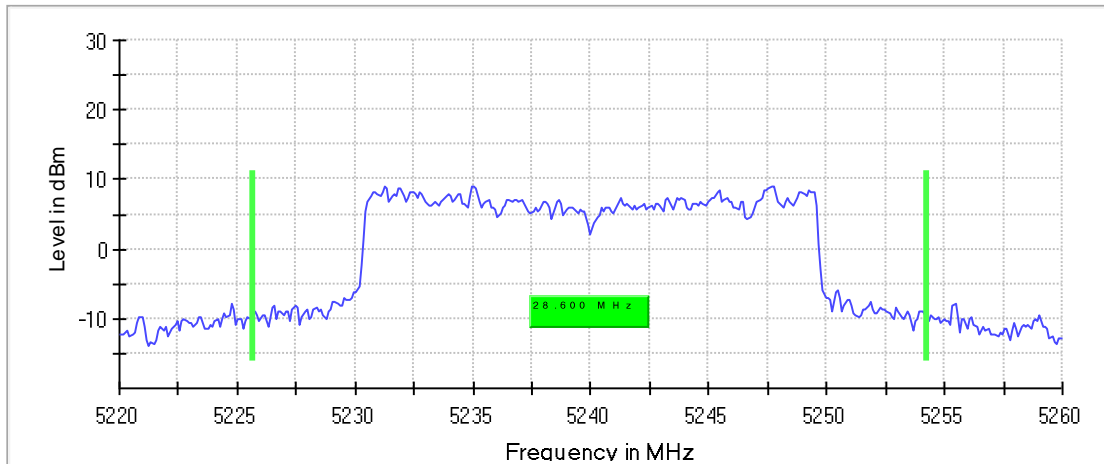
Occupied Channel Bandwidth 99% (5240 MHz; 30.000 dBm; 20 MHz)

99 % Bandwidth

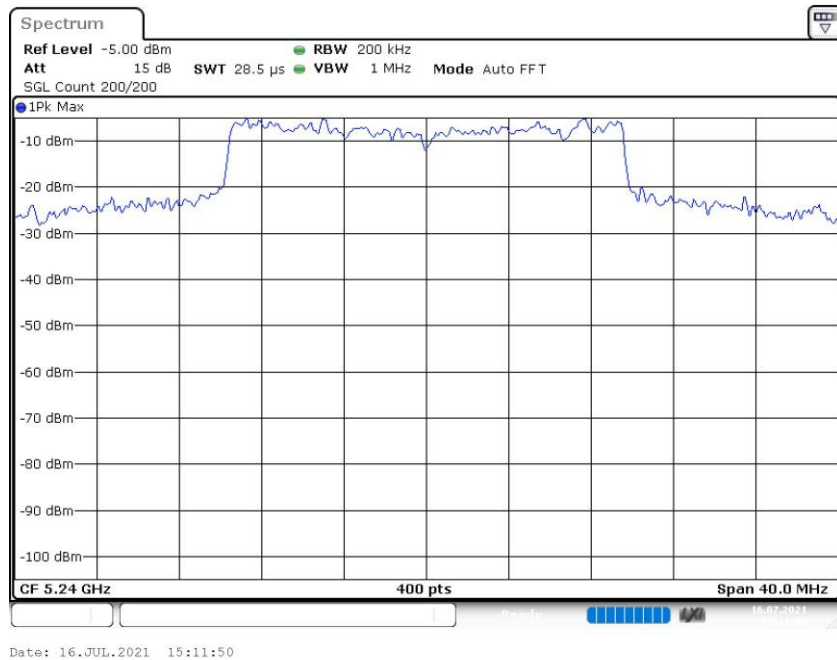
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	28.600000	---	---	5225.650000	5254.250000

DUT Frequency (MHz)	Result
5240.000000	PASS

99 %Bandwidth



Bandwidth



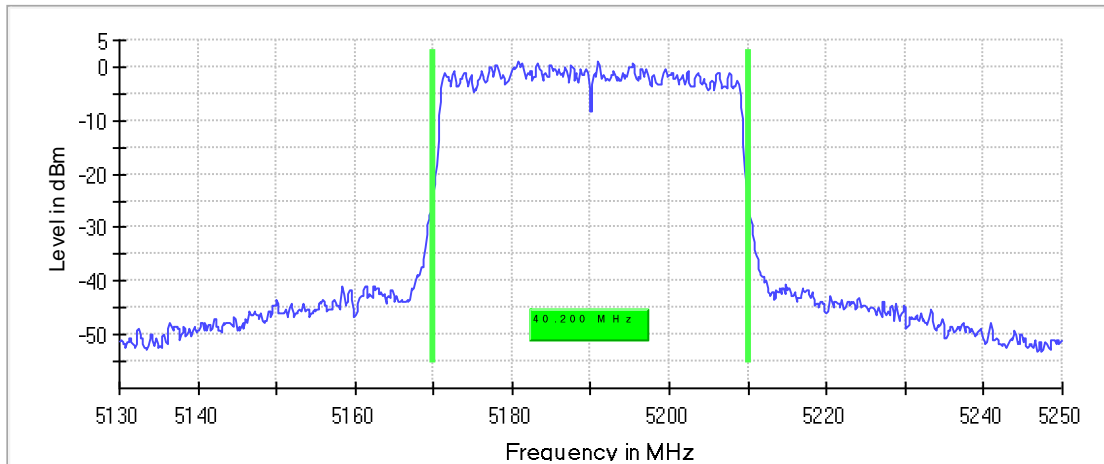
Emission Bandwidth 26 dB (5190 MHz; 30.000 dBm; 40 MHz)

26 dB Bandwidth

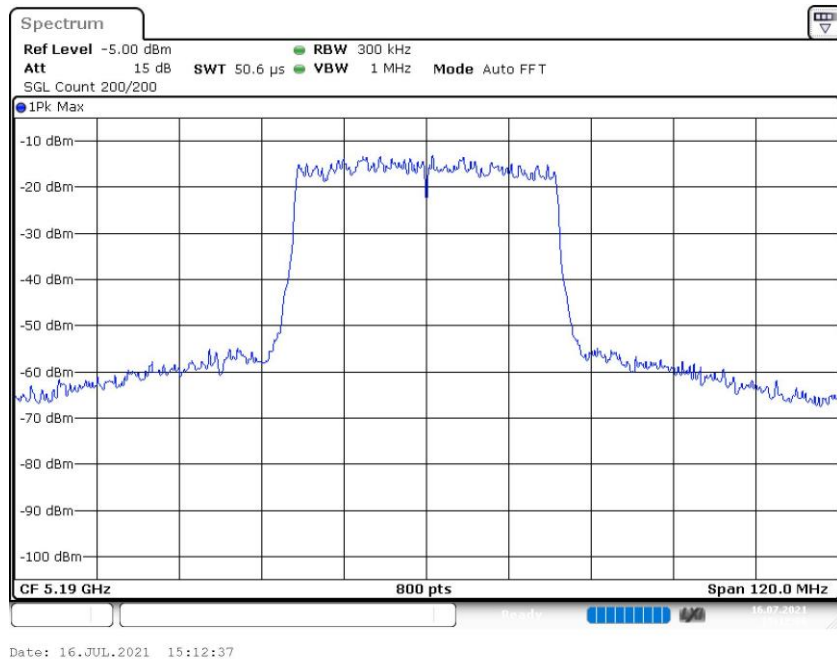
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5190.000000	40.200000	---	---	5169.825000	5210.025000

DUT Frequency (MHz)	Max Level (dBm)	Result
5190.000000	1.1	PASS

26 dB Bandwidth



Bandwidth



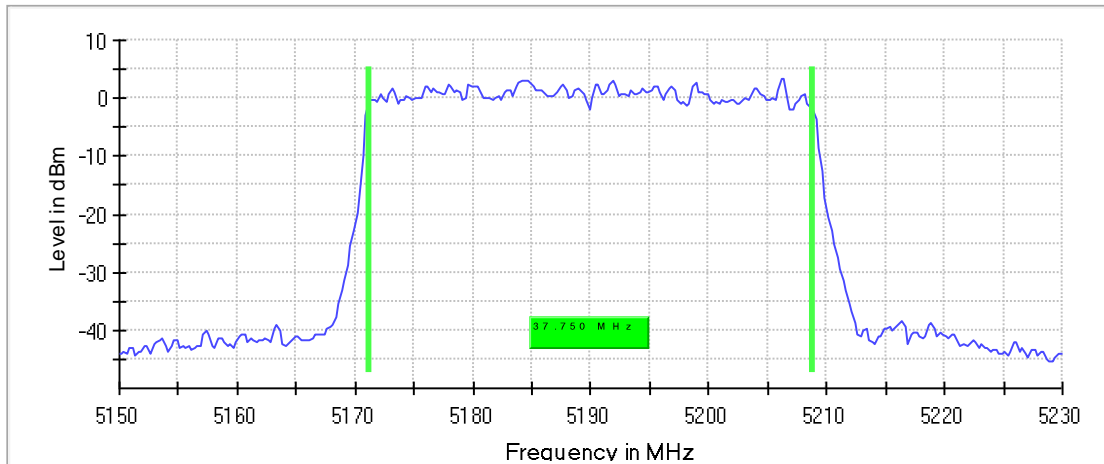
Occupied Channel Bandwidth 99% (5190 MHz; 30.000 dBm; 40 MHz)

99 % Bandwidth

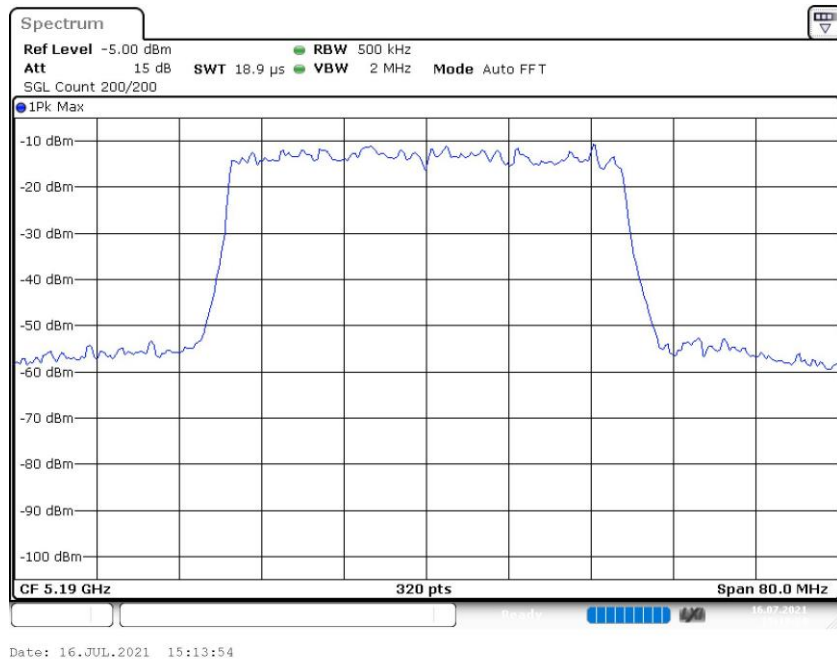
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5190.000000	37.750000	---	---	5171.125000	5208.875000

DUT Frequency (MHz)	Result
5190.000000	PASS

99 %Bandwidth



Bandwidth



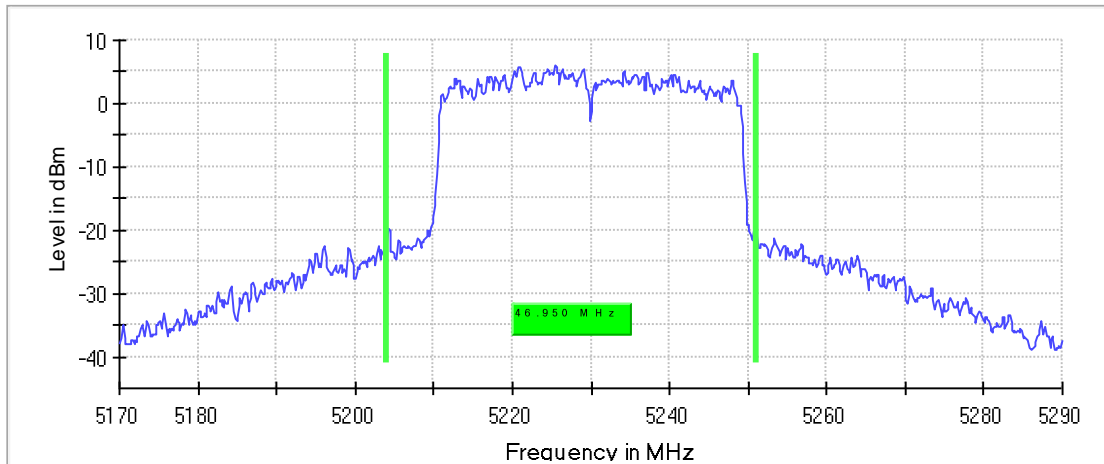
Emission Bandwidth 26 dB (5230 MHz; 30.000 dBm; 40 MHz)

26 dB Bandwidth

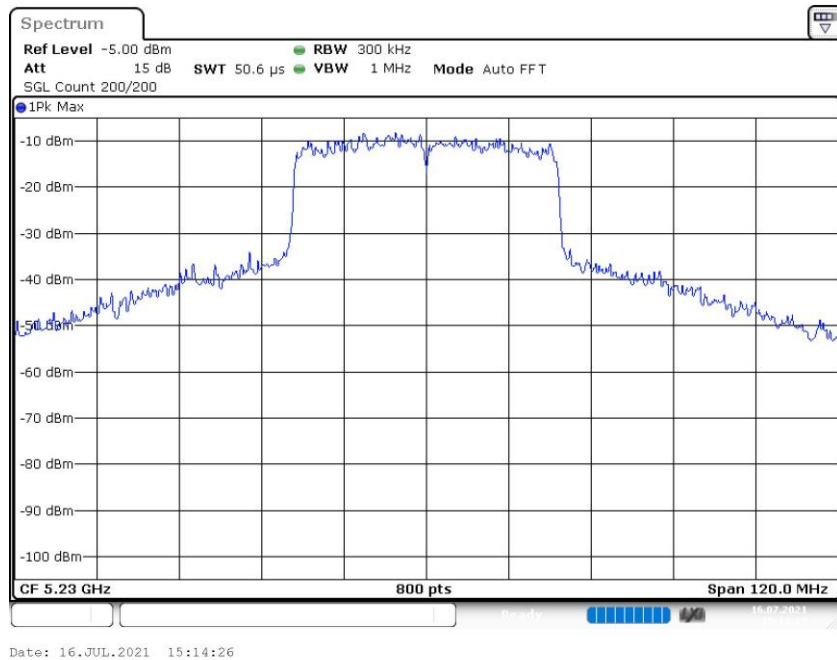
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5230.000000	46.950000	---	---	5204.125000	5251.075000

DUT Frequency (MHz)	Max Level (dBm)	Result
5230.000000	5.9	PASS

26 dB Bandwidth



Bandwidth



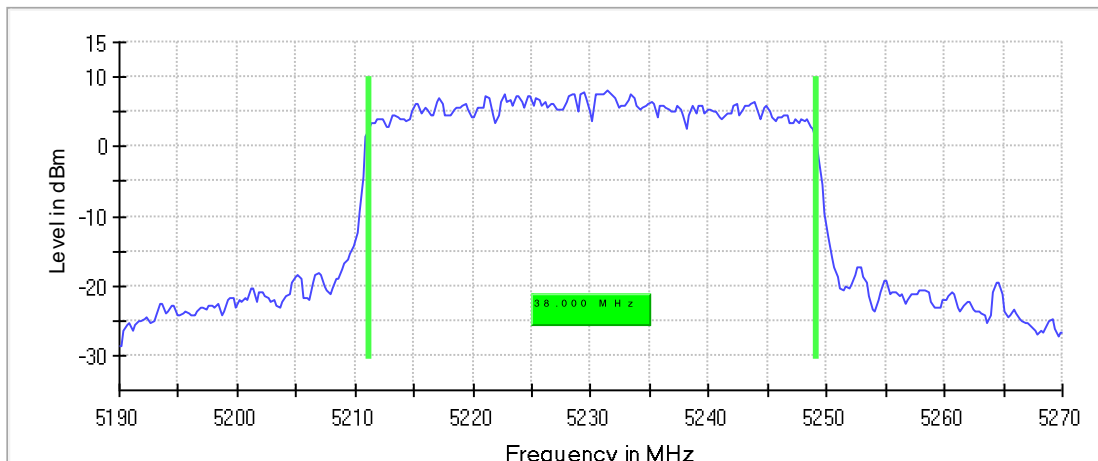
Occupied Channel Bandwidth 99% (5230 MHz; 30.000 dBm; 40 MHz)

99 % Bandwidth

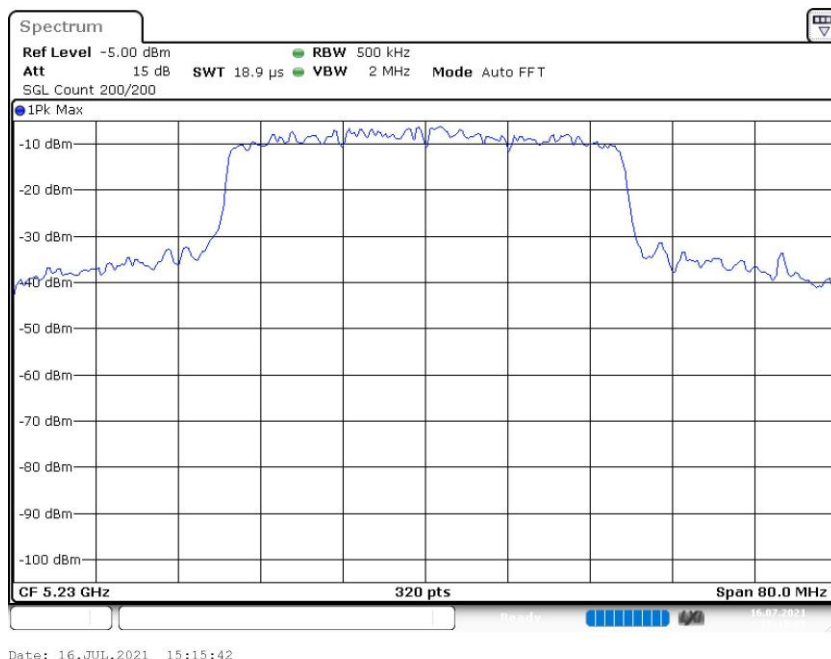
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5230.000000	38.000000	---	---	5211.125000	5249.125000

DUT Frequency (MHz)	Result
5230.000000	PASS

99 %Bandwidth



Bandwidth



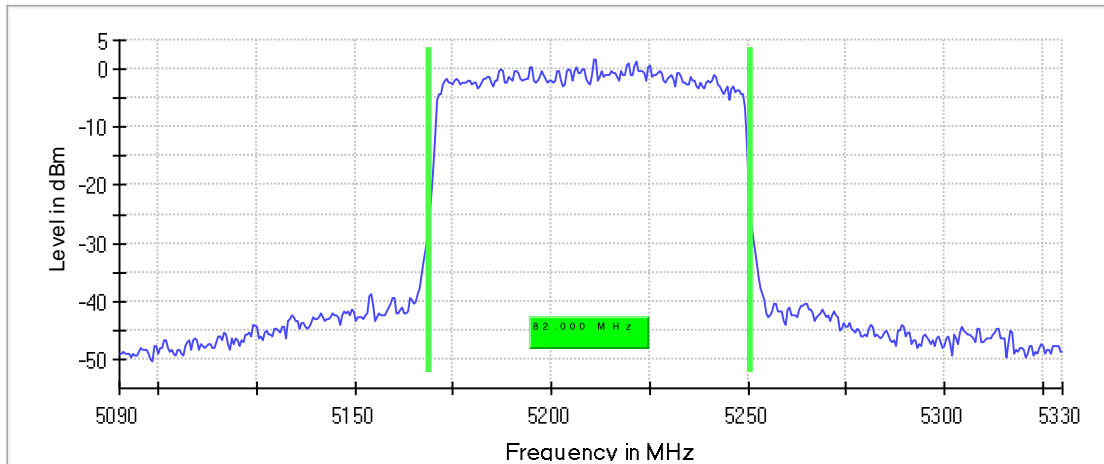
Emission Bandwidth 26 dB (5210 MHz; 30.000 dBm; 80 MHz)

26 dB Bandwidth

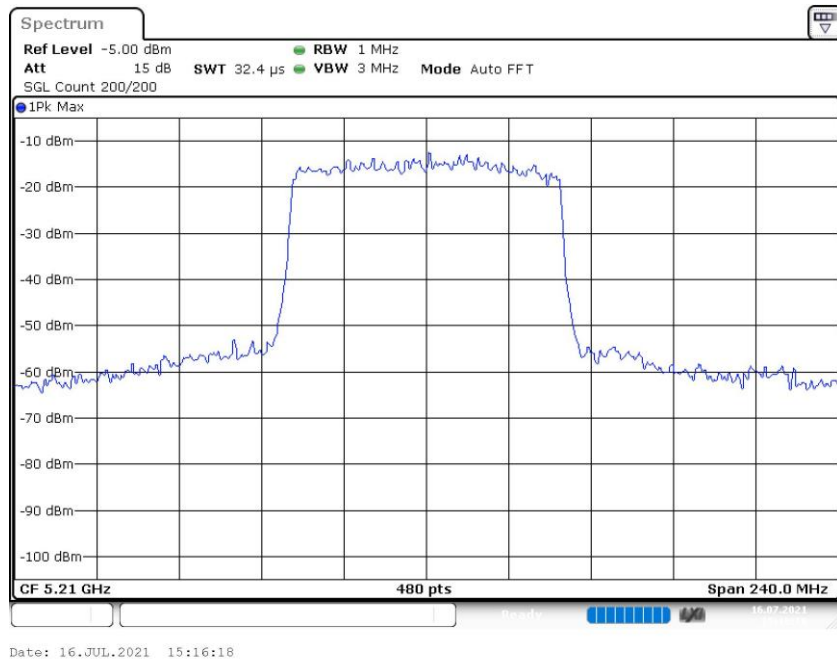
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	82.000000	---	---	5168.750000	5250.750000

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	1.8	PASS

26 dB Bandwidth



Bandwidth



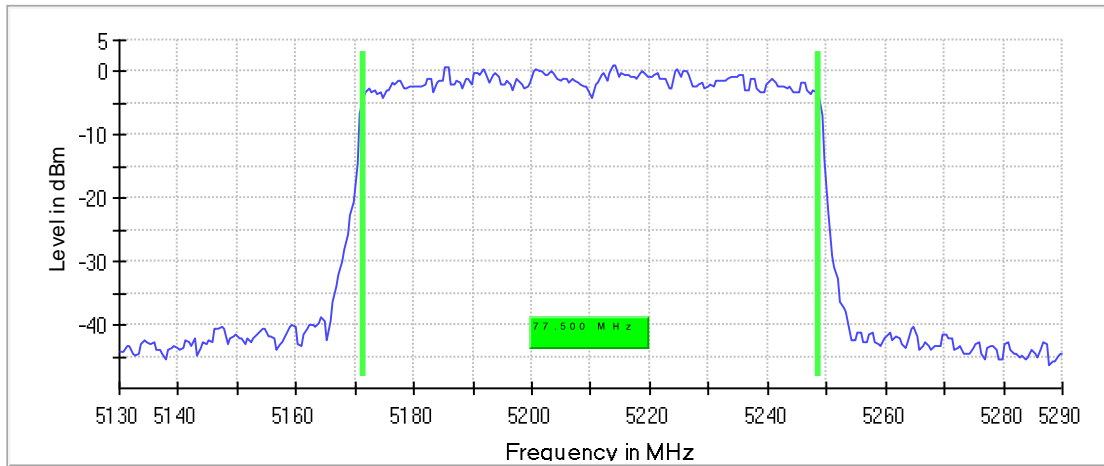
Occupied Channel Bandwidth 99% (5210 MHz; 30.000 dBm; 80 MHz)

99 % Bandwidth

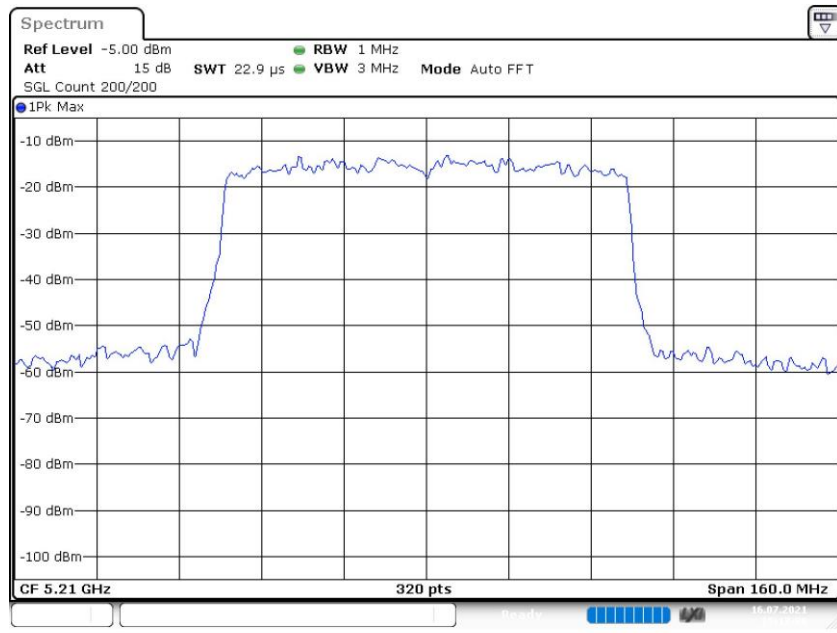
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	77.500000	---	---	5171.250000	5248.750000

DUT Frequency (MHz)	Result
5210.000000	PASS

99 %Bandwidth



Bandwidth



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