

TR5711 UT-Conference UNII-1 Annex

Summary

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	5210.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5210.000	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)

Customized settings.

Max level (-12.8 dBm) more than 35.0 dB below the nominal power level.

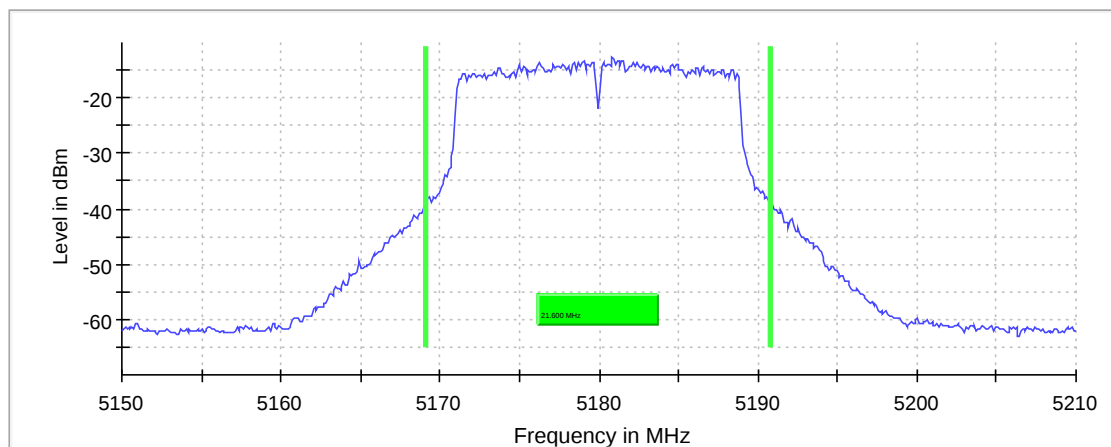
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5180.000000	21.600000	---	---	5169.150000	5190.750000

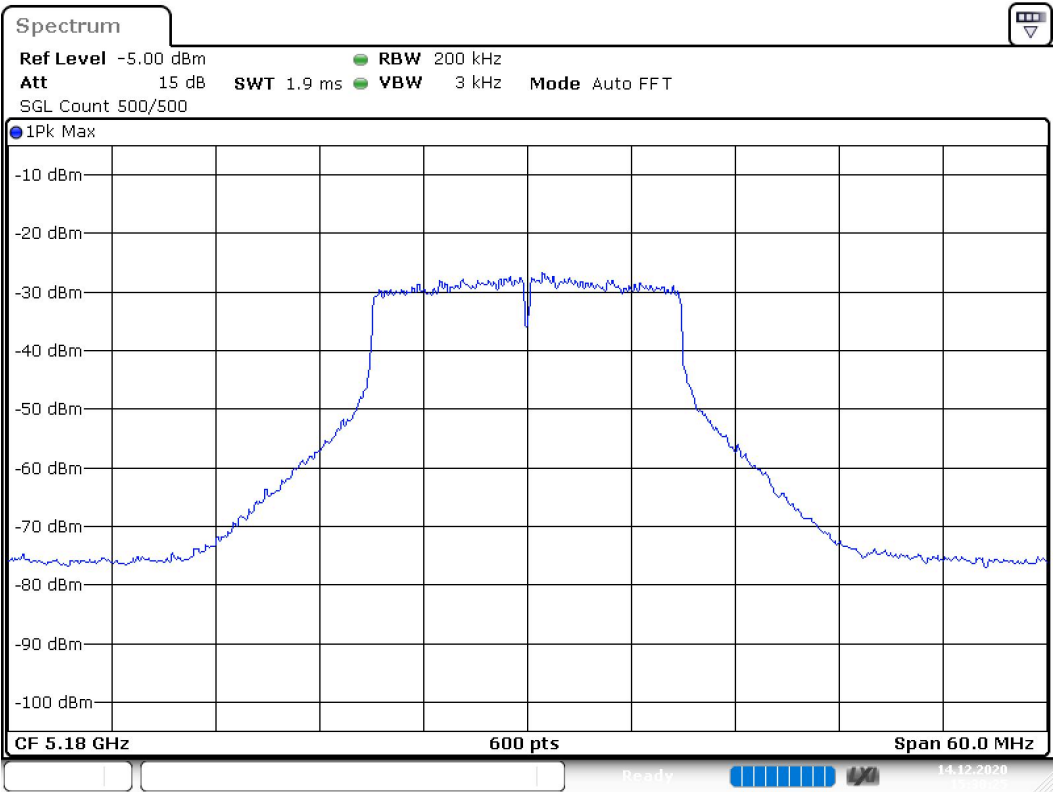
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5180.000000	-12.8	PASS

26 dB Bandwidth



Bandwidth



Date: 14.DEC.2020 15:30:26

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	3.000 kHz	>= 3.000 kHz
SweepPoints	600	~ 600
SweepTime	1.915 ms	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 (5180 MHz; 30.000 dBm; 20 MHz)**Result**

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5180.000000	8.8	24.0	8.8	98.280	PASS

OSP PowerMeter settings

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

Power Spectral Density (5180 MHz; 30.000 dBm; 20 MHz)

Customized settings.

Max level of analyzer (-4.5 dBm) more than 28.0 dB below the nominal power level.

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5180.990099	-4.517	11.0	PASS

Ports

Port	State
1	used
2	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	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

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

Customized settings.

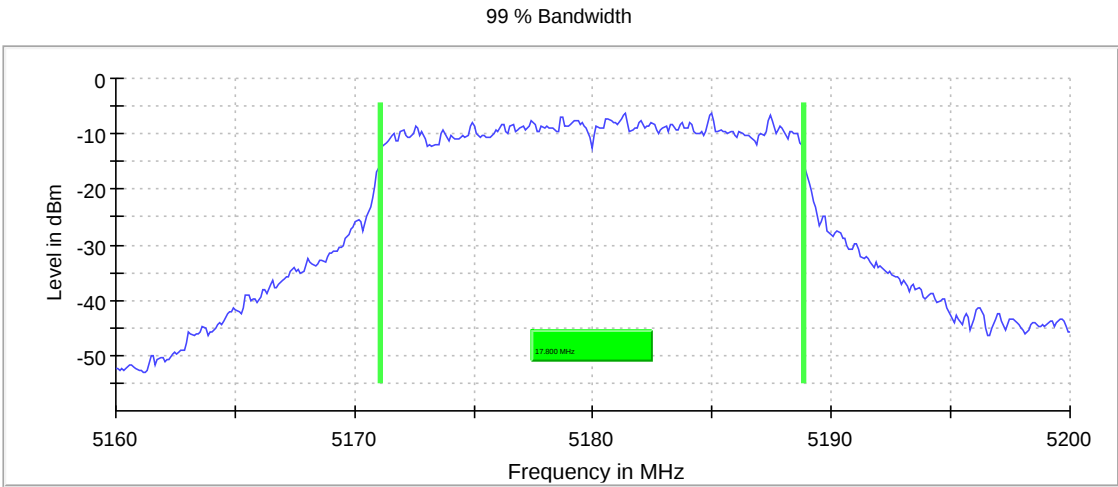
Max level (-6.3 dBm) more than 35.0 dB below the nominal power level.

99 % Bandwidth

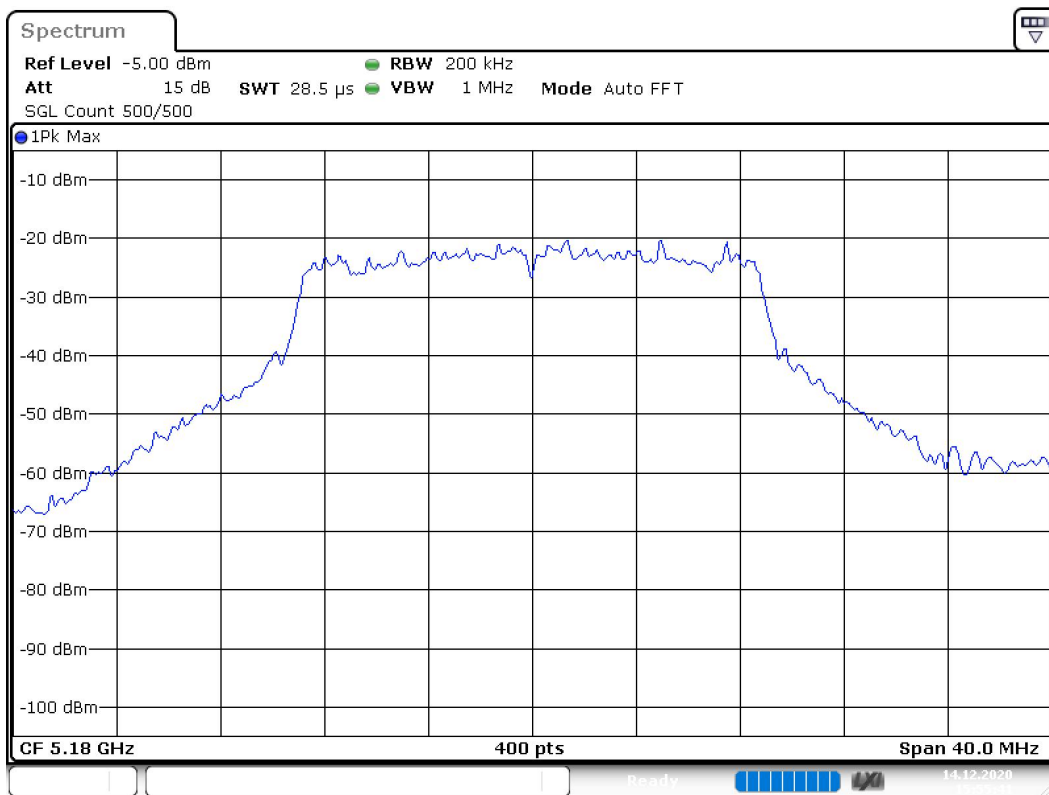
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5180.000000	17.800000	---	---	5171.050000	5188.850000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5180.000000	PASS



Bandwidth



Date: 14.DEC.2020 15:55:42

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 μ s	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 (5210 MHz; 30.000 dBm; 20 MHz)

Customized settings.

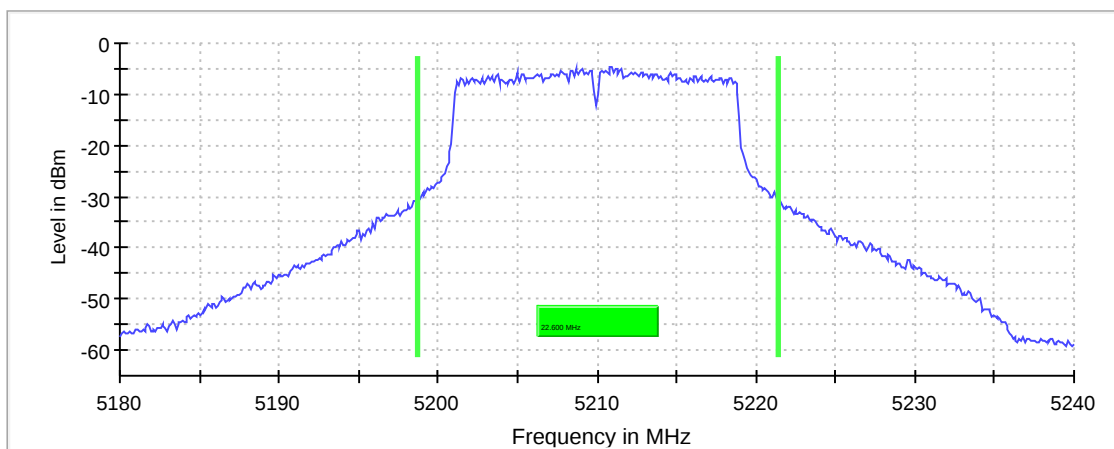
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	22.600000	---	---	5198.750000	5221.350000

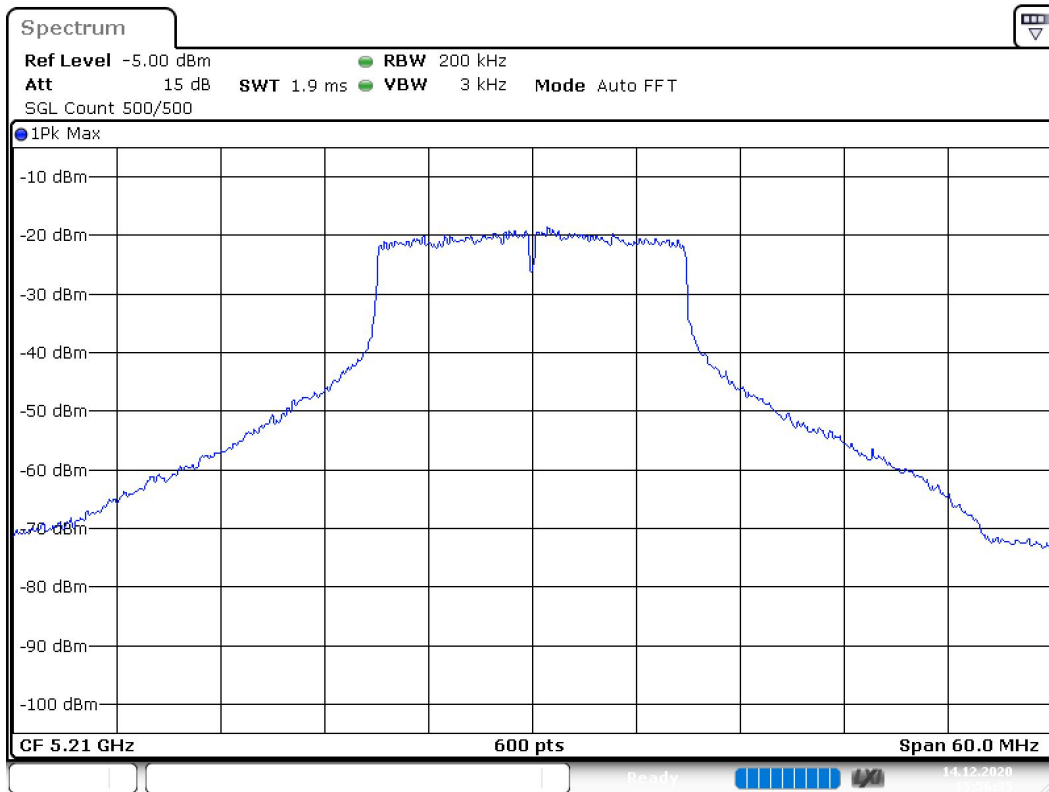
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	-4.6	PASS

26 dB Bandwidth



Bandwidth



Date: 14.DEC.2020 15:56:36

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

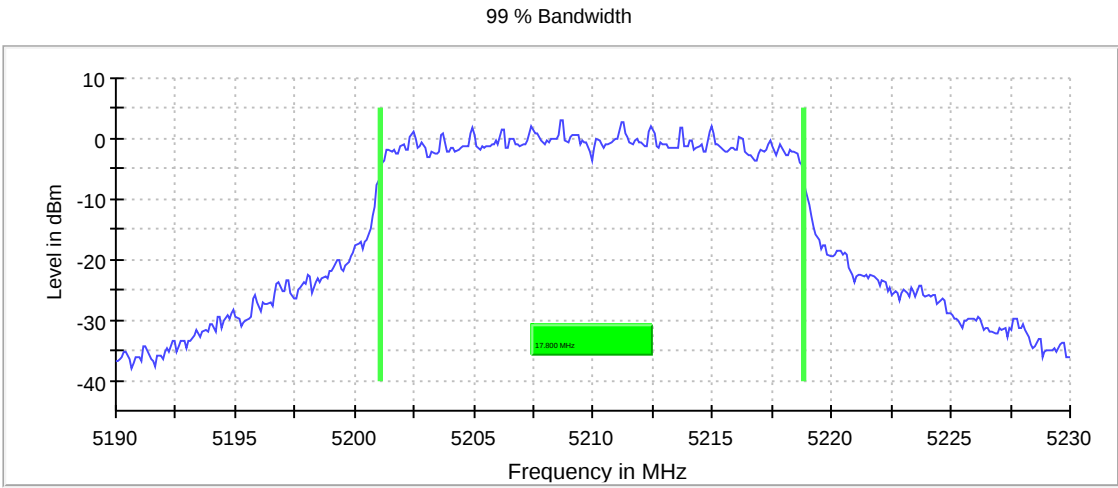
Customized settings.

99 % Bandwidth

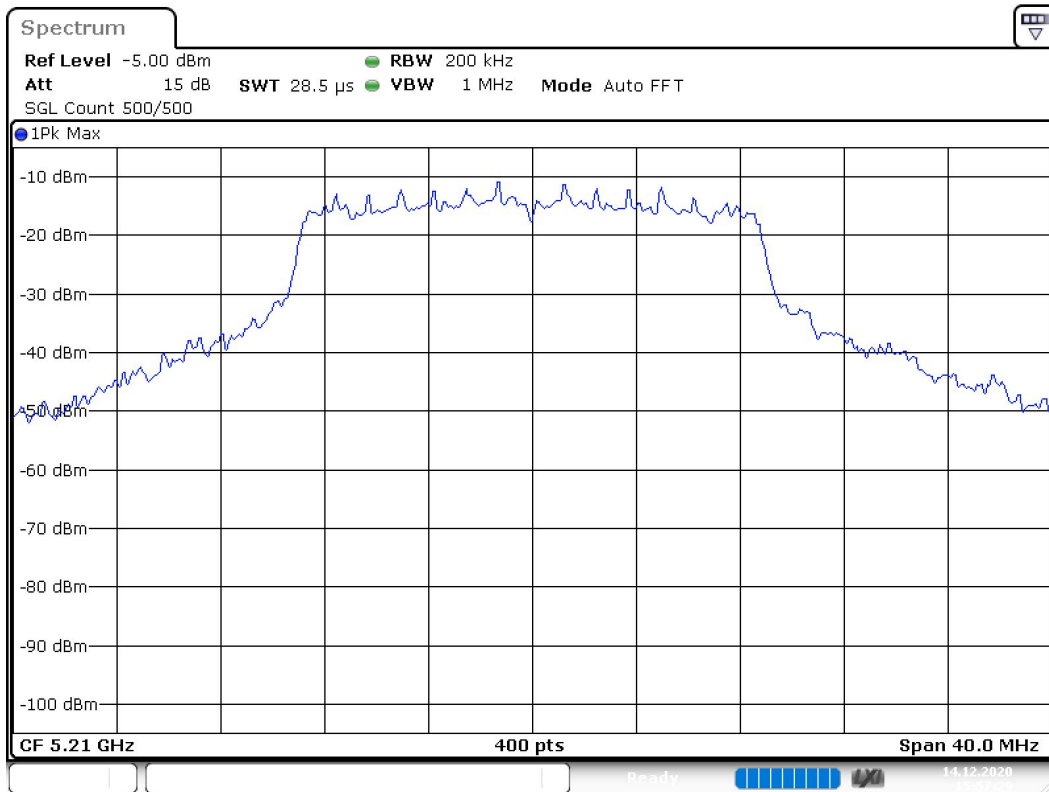
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	17.800000	---	---	5201.050000	5218.850000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5210.000000	PASS



Bandwidth



Date: 14.DEC.2020 15:57:30

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

Customized settings.

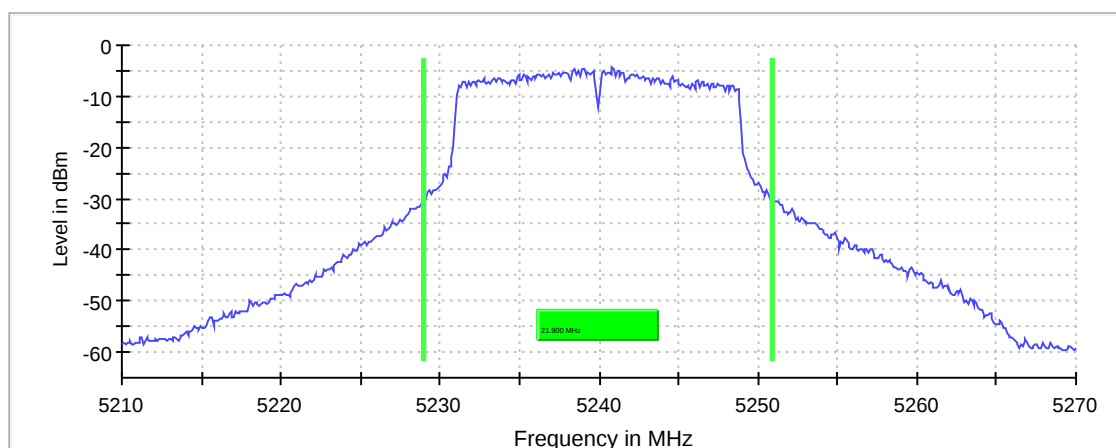
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	21.900000	---	---	5228.950000	5250.850000

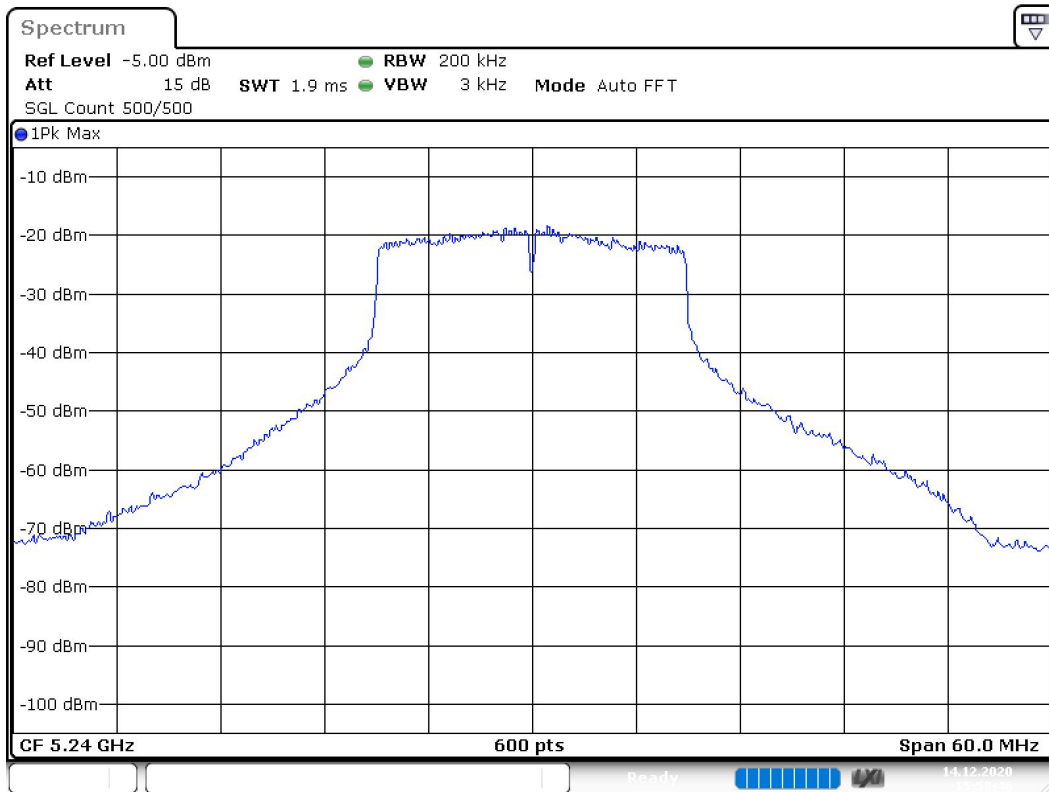
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5240.000000	-4.4	PASS

26 dB Bandwidth



Bandwidth



Date: 14.DEC.2020 15:58:47

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

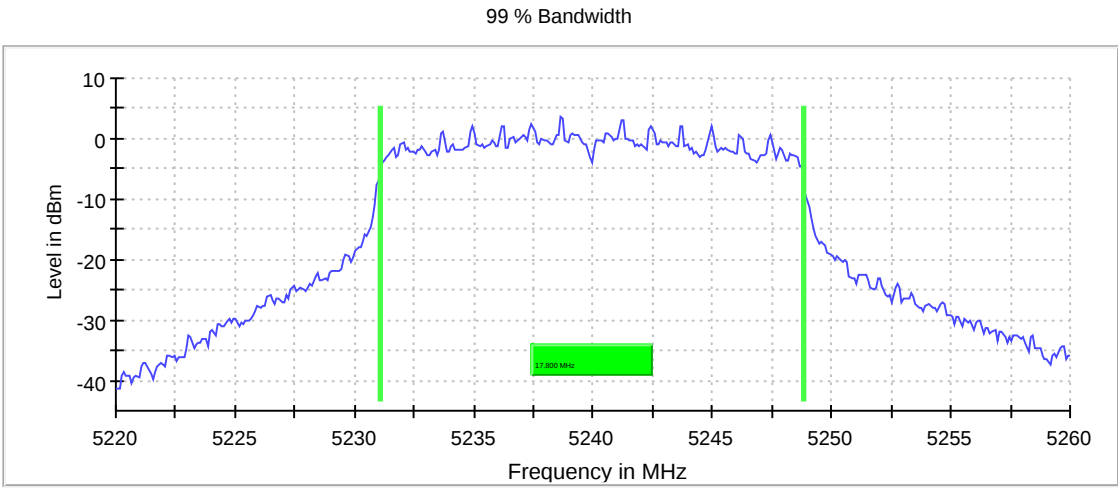
Customized settings.

99 % Bandwidth

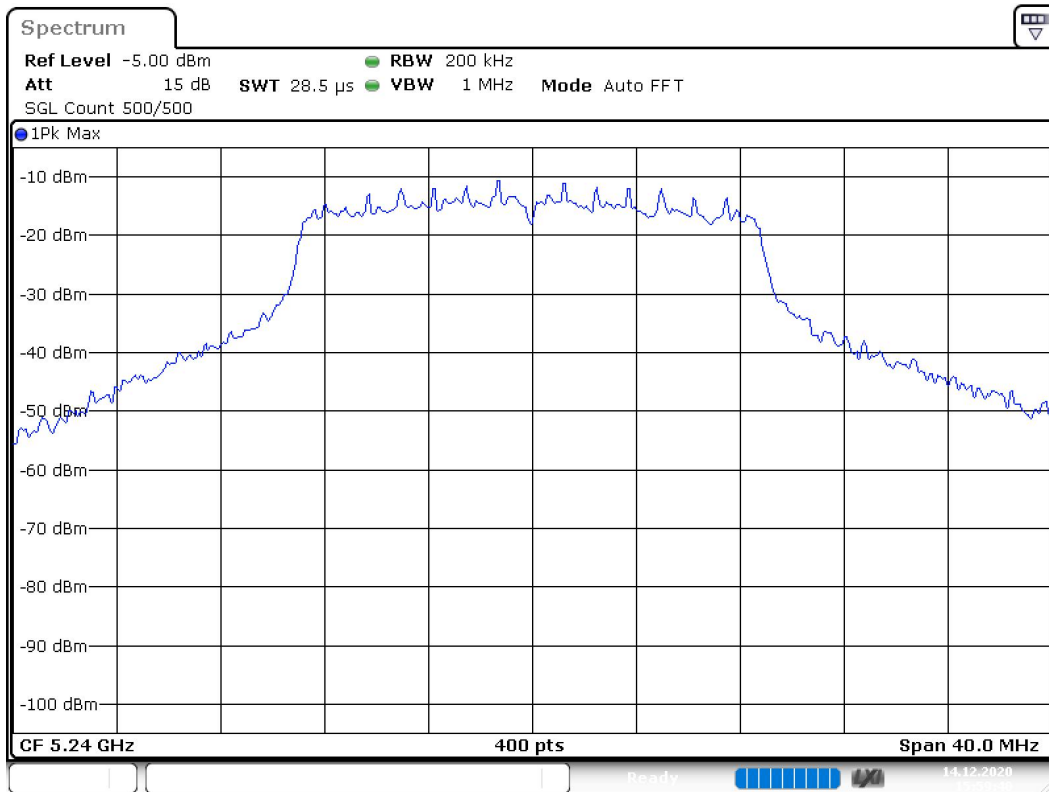
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	17.800000	---	---	5231.050000	5248.850000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5240.000000	PASS



Bandwidth



Date: 14.DEC.2020 15:59:40

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

Customized settings.

Max level (-13.8 dBm) more than 36.0 dB below the nominal power level.

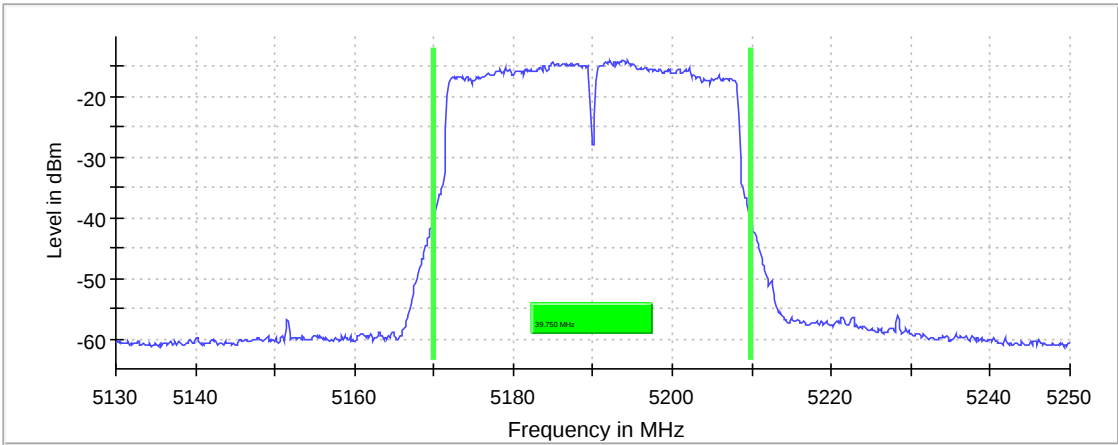
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5190.000000	39.750000	---	---	5169.975000	5209.725000

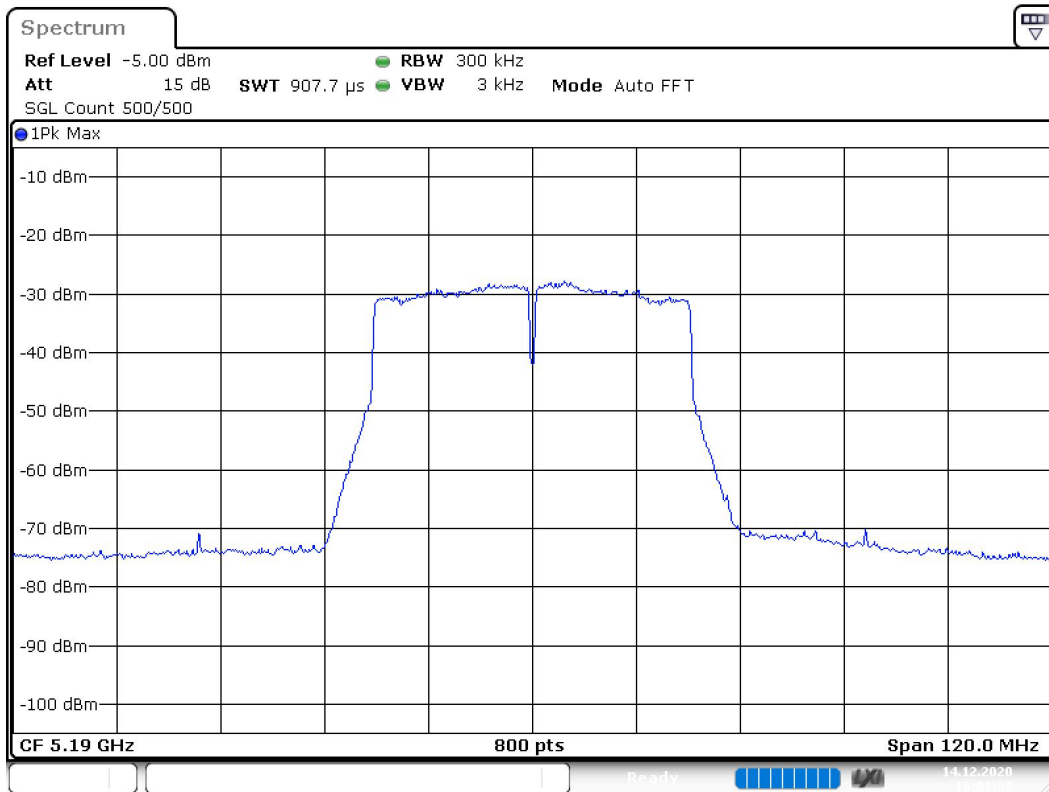
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5190.000000	-13.8	PASS

26 dB Bandwidth



Bandwidth



Date: 14.DEC.2020 16:01:38

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

Customized settings.

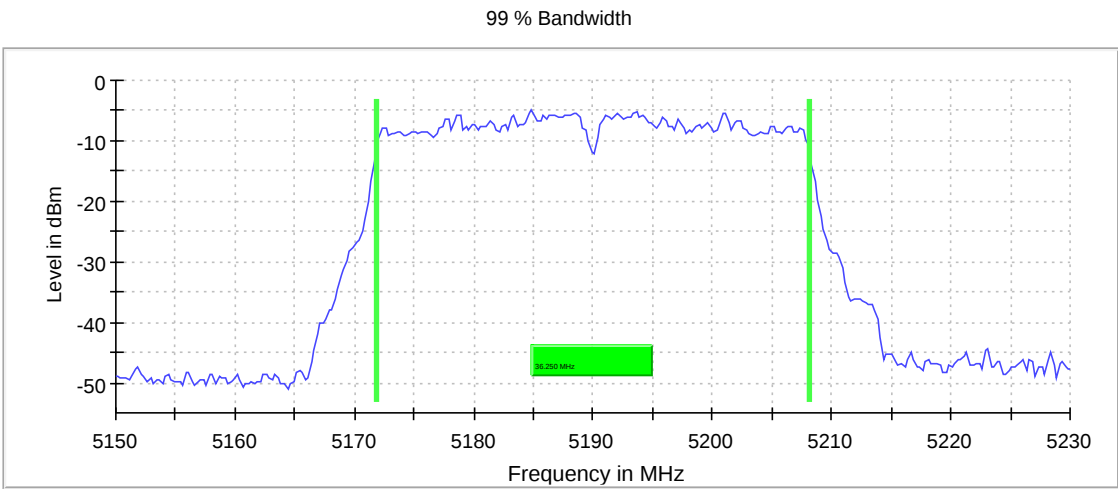
Max level (-5.0 dBm) more than 34.0 dB below the nominal power level.

99 % Bandwidth

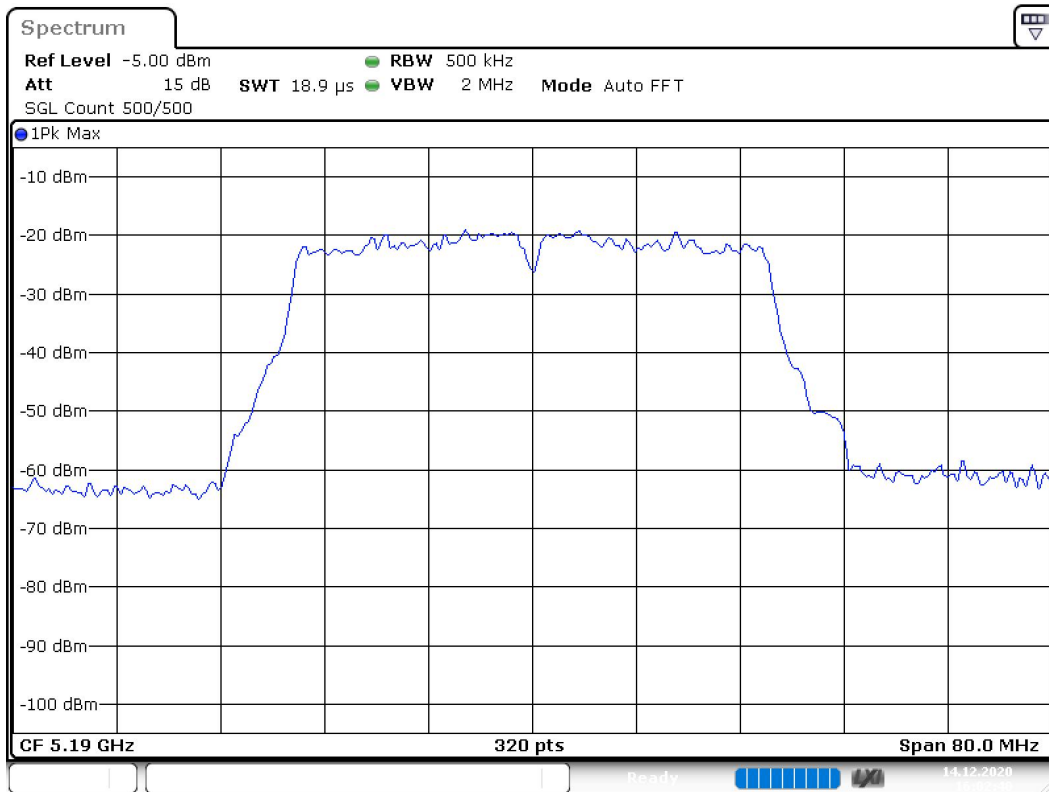
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5190.000000	36.250000	---	---	5171.875000	5208.125000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5190.000000	PASS



Bandwidth



Date: 14.DEC.2020 16:02:41

Emission Bandwidth 26 dB (5210 MHz; 30.000 dBm; 40 MHz)

Customized settings.

Max level (-6.6 dBm) more than 36.0 dB below the nominal power level.

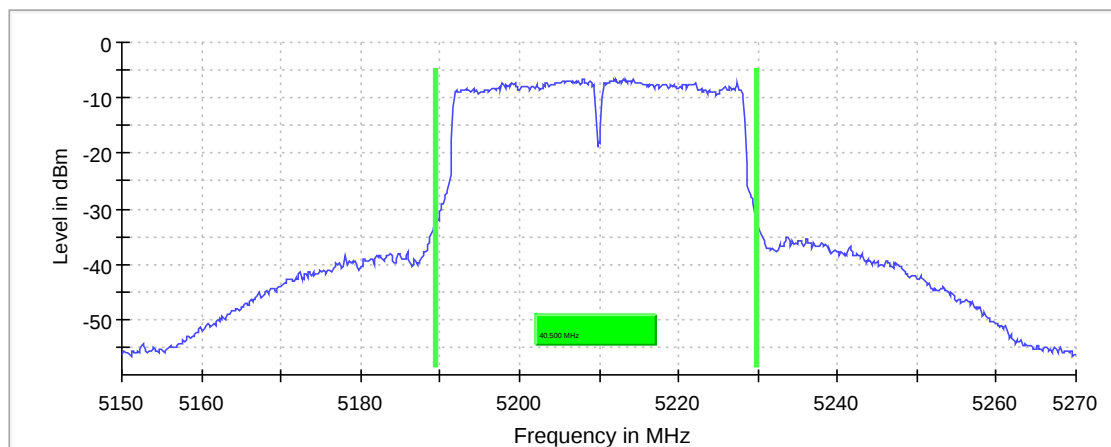
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	40.500000	---	---	5189.375000	5229.875000

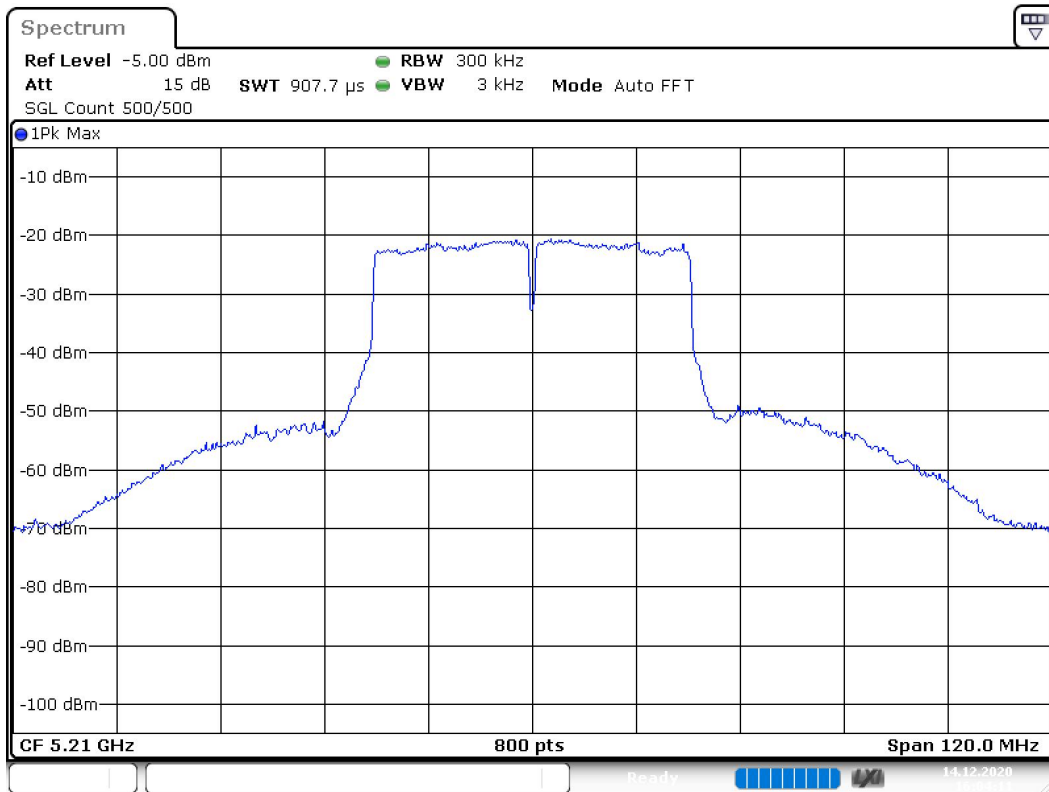
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	-6.6	PASS

26 dB Bandwidth



Bandwidth



Date: 14.DEC.2020 16:04:11

Occupied Channel Bandwidth 99% (5210 MHz; 30.000 dBm; 40 MHz)

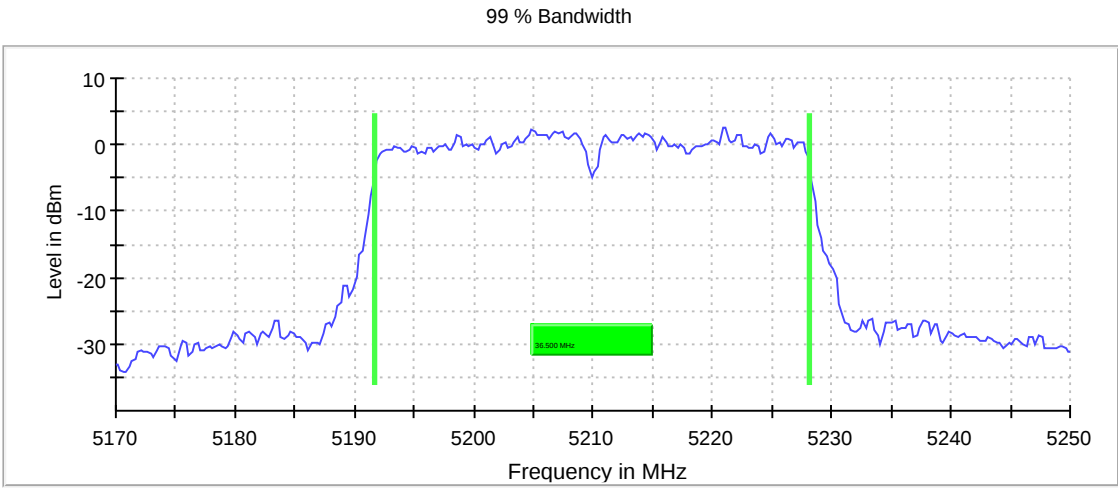
Customized settings.

99 % Bandwidth

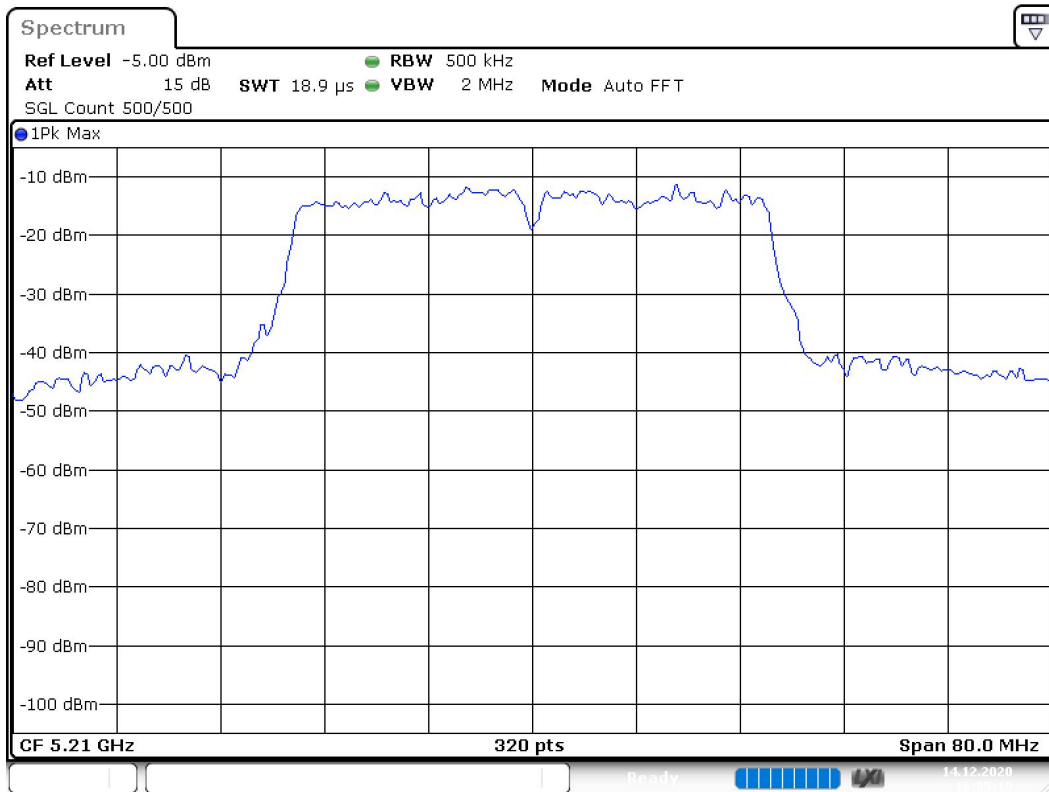
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	36.500000	---	---	5191.625000	5228.125000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5210.000000	PASS



Bandwidth



Date: 14.DEC.2020 16:05:10

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

Customized settings.

Max level (-6.7 dBm) more than 36.0 dB below the nominal power level.

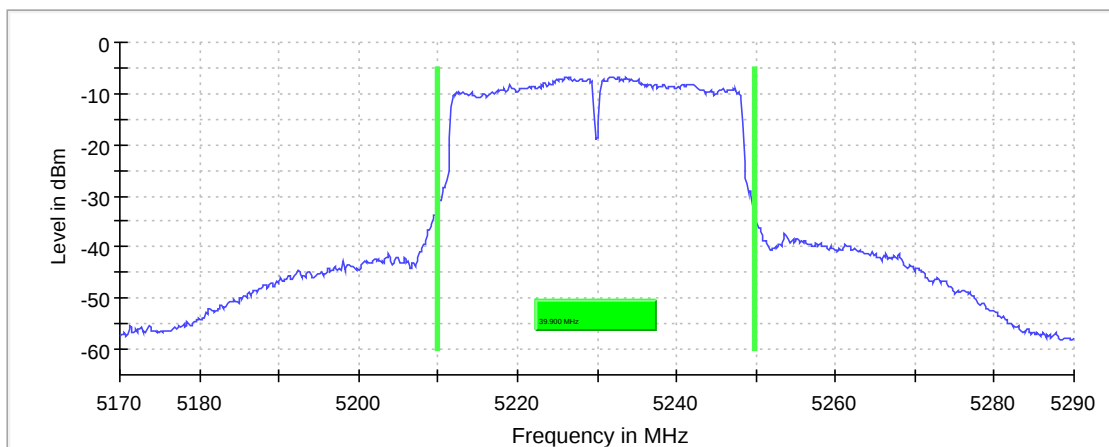
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5230.000000	39.900000	---	---	5209.825000	5249.725000

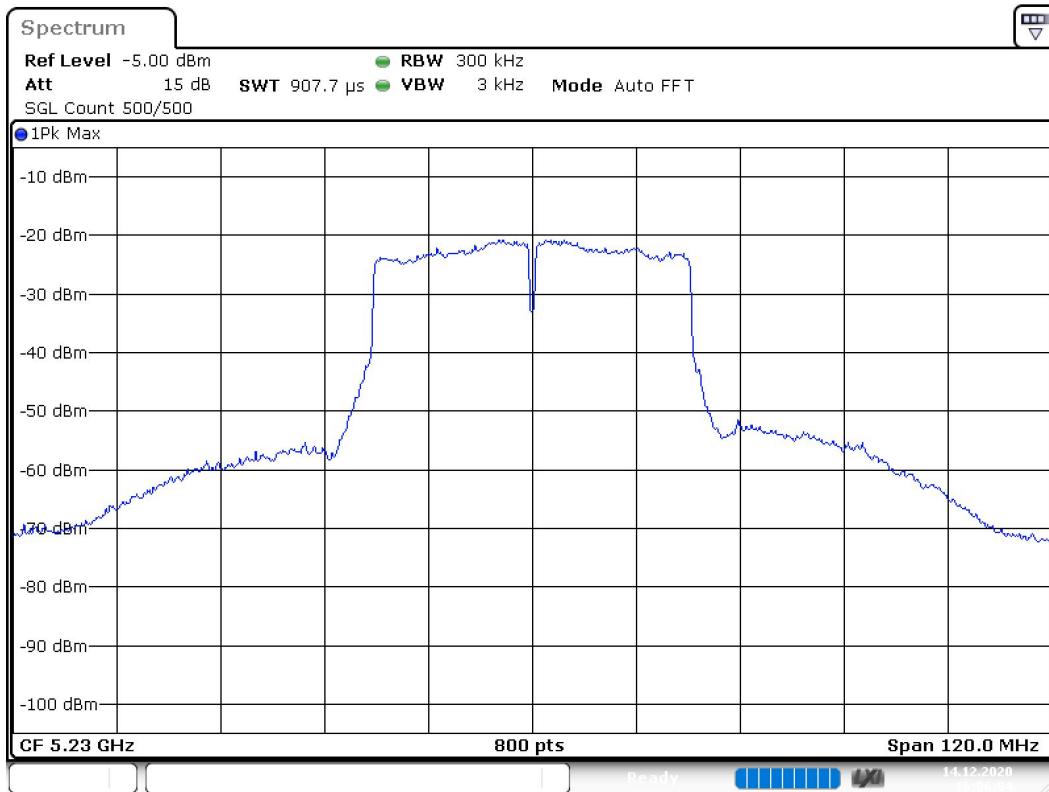
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5230.000000	-6.7	PASS

26 dB Bandwidth



Bandwidth



Date: 14.DEC.2020 16:06:05

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

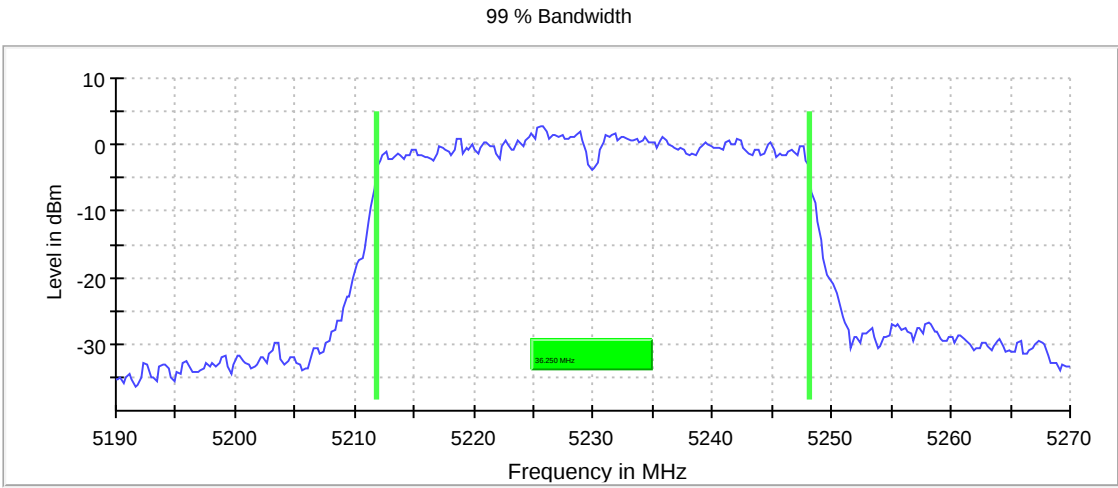
Customized settings.

99 % Bandwidth

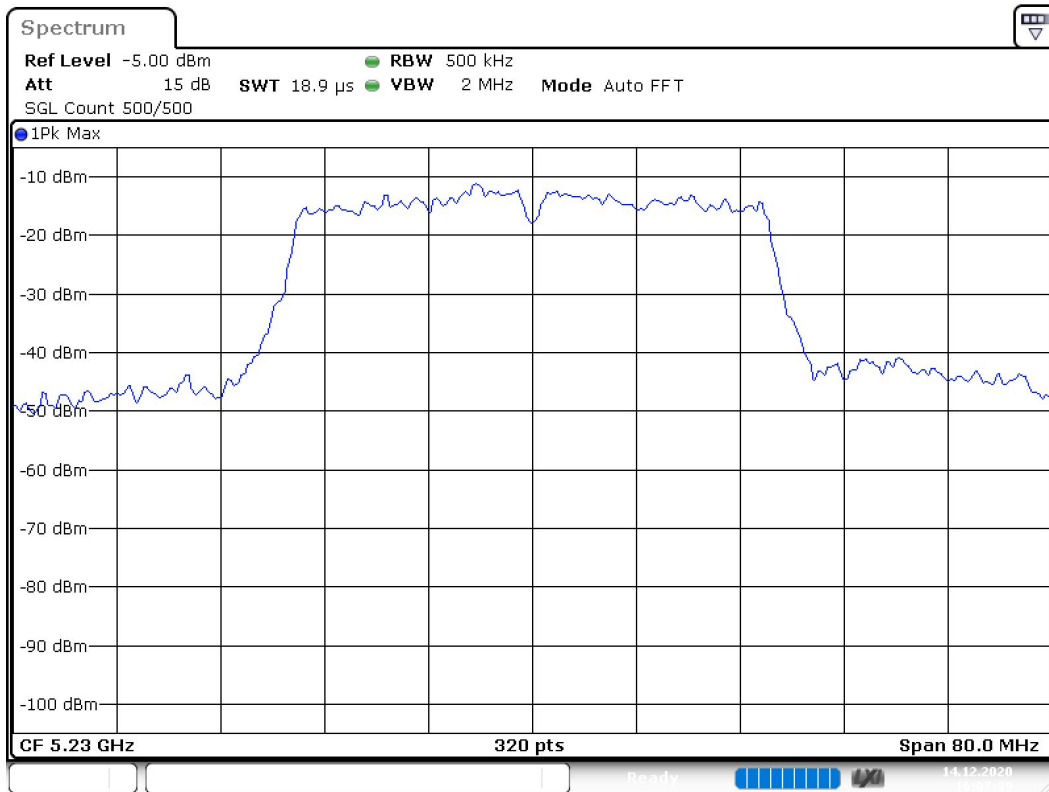
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5230.000000	36.250000	---	---	5211.875000	5248.125000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5230.000000	PASS



Bandwidth



Date: 14.DEC.2020 16:07:40

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

Customized settings.

Max level (-6.6 dBm) more than 34.0 dB below the nominal power level.

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	83.000000	---	---	5168.250000	5251.250000

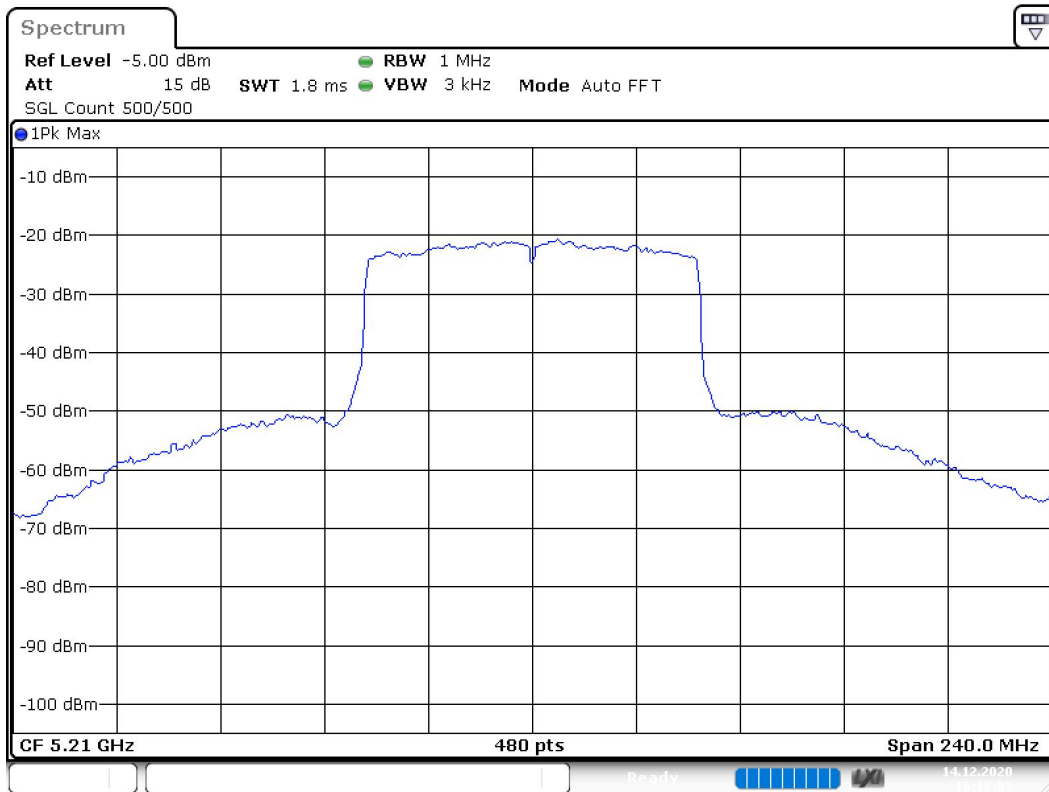
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	-6.6	PASS

26 dB Bandwidth



Bandwidth



Date: 14.DEC.2020 16:17:06

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

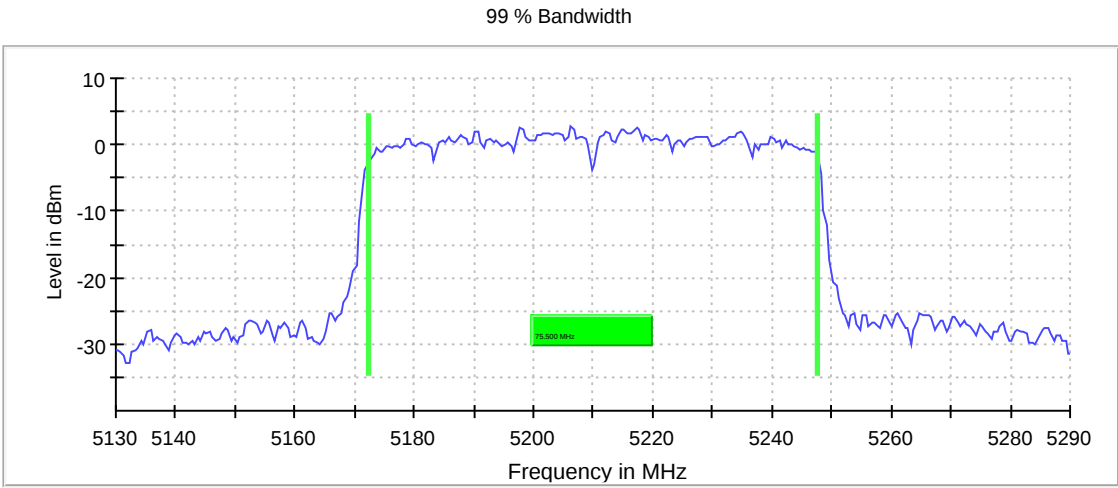
Customized settings.

99 % Bandwidth

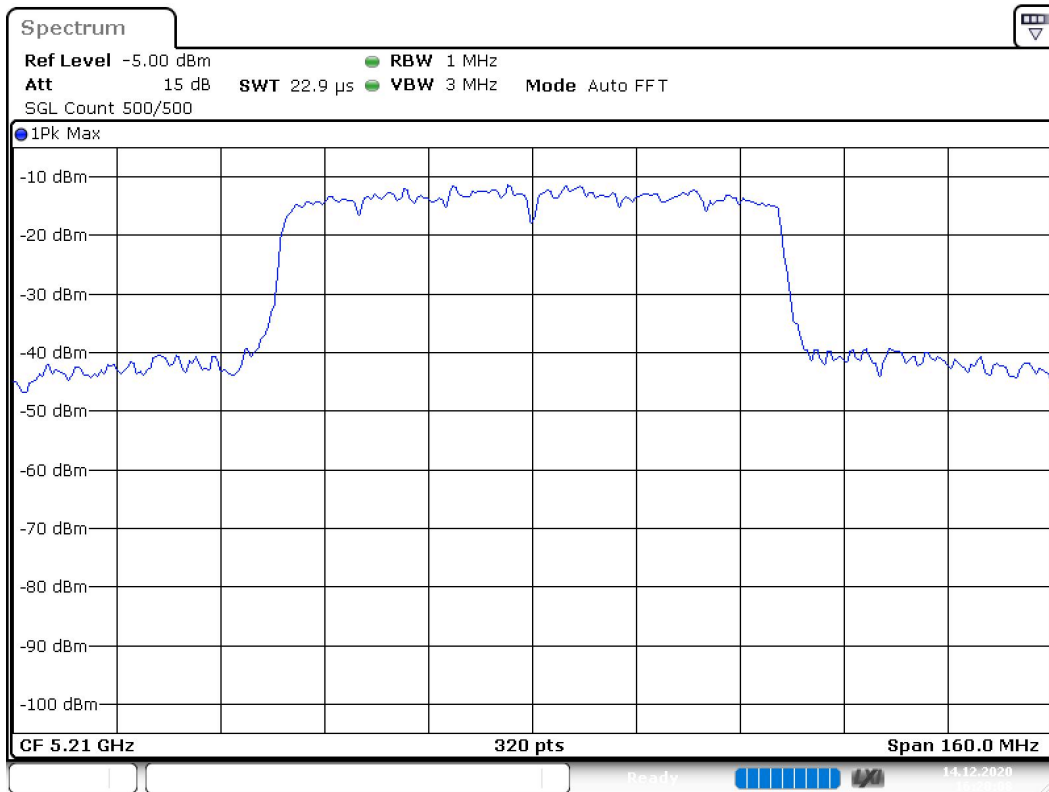
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	75.500000	---	---	5172.250000	5247.750000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
5210.000000	PASS



Bandwidth



Date: 14.DEC.2020 16:20:08