

FCC 15.407 2015

DUT Information

Frequencies

WLAN CH 38 (5190 MHz)	WLAN CH 46 (5230 MHz)	WLAN CH 151 (5755 MHz)
WLAN CH 159 (5795 MHz)		

Bandwidths

40 MHz (40 MHz)

Power

20.000 dBm (20 dBm)

Beamforming Gain

20.000 dBm (20 dBm)	0 dB
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Gain Tables

20.000 dBm (20 dBm)	Port 1: 0dBi;
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DUT Settings

No. of transmission chains	1
DFS capability	Yes
DFS Mode	Master
Equipment Type	Portable
TPC	No

Hardware Setup: WMS Measurements\Hardware Setup

Spectrum Analyzer:

SA FSV 40 (SA FSV 40) @ VISA (ADR
TCPIP::192.168.48.149::INST0::INSTR), SN 1321.3008K39/101229,
FW 3.40

Vector Generator:

VG SMBV100A (VG SMBV100A) @ VISA (ADR
TCPIP::192.168.48.25::INST0::INSTR), SN 260451, FW 4.15.125.49

Generator:

SMB100A (SMB100A) @ VISA (ADR
TCPIP::192.168.48.30::INST0::INSTR), SN 178361, FW 3.20.390.24
/ Drv:Rev 2.21.0, 07/2016, CVI 2015

OSP:

OSP-B157W (OSP-B157W) @ VISA (ADR
TCPIP::192.168.48.157::INST0::INSTR), SN 1527.1144. /, FW
1.23.0.2

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5755.000	20.0	40.000000	PASS
RF output power	5755.000	20.0	40.000000	PASS
Power Spectral Density	5755.000	20.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	5755.000	20.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5755.000	20.0	40.000000	PASS
Band Edge low	5755.000	20.0	40.000000	PASS
Emission Bandwidth 26 dB	5795.000	20.0	40.000000	PASS
RF output power	5795.000	20.0	40.000000	PASS
Power Spectral Density	5795.000	20.0	40.000000	PASS
Minimum Emission Bandwidth 6 dB	5795.000	20.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5795.000	20.0	40.000000	PASS
Band Edge high	5795.000	20.0	40.000000	PASS

Emission Bandwidth 26 dB (5755 MHz; 20.000 dBm; 40 MHz)

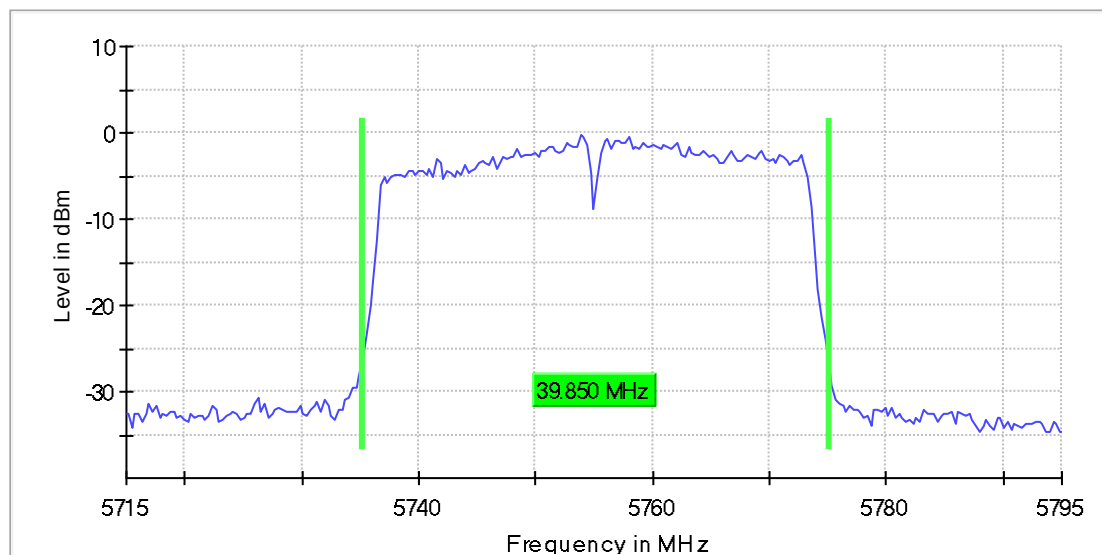
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

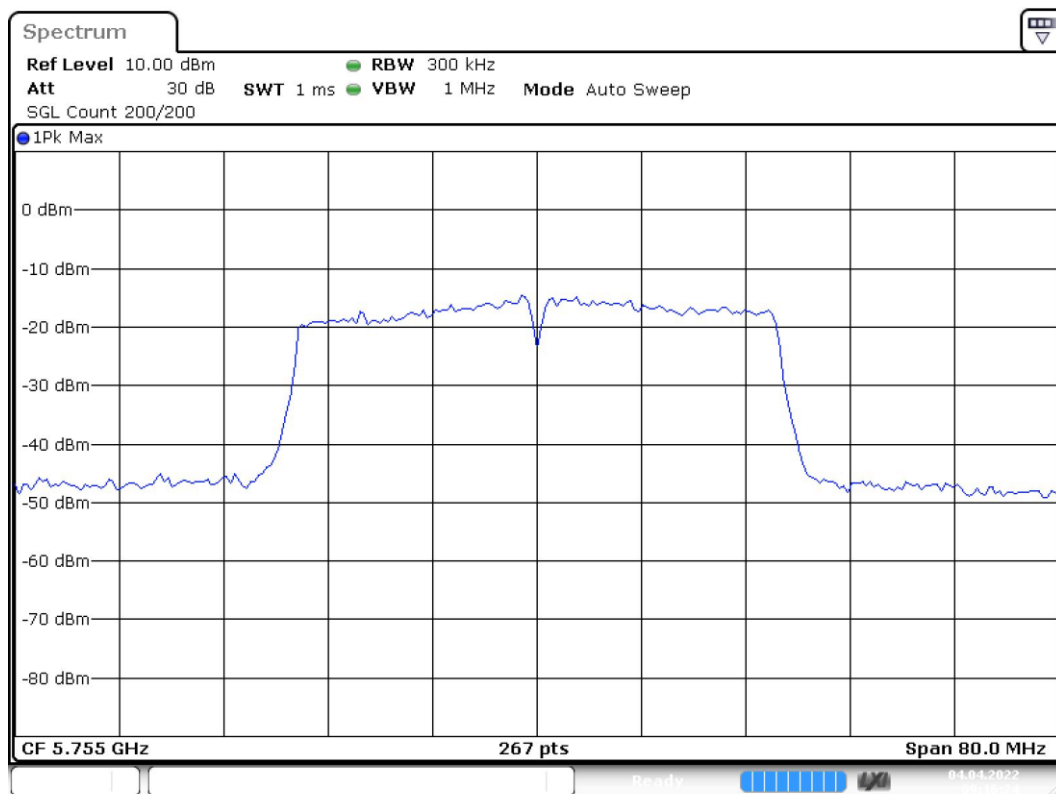
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5755.000000	39.850187	---	---	5735.224719	5775.074906

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5755.000000	-0.3	PASS



Bandwidth



Date: 4.APR.2022 09:16:24

Measurement

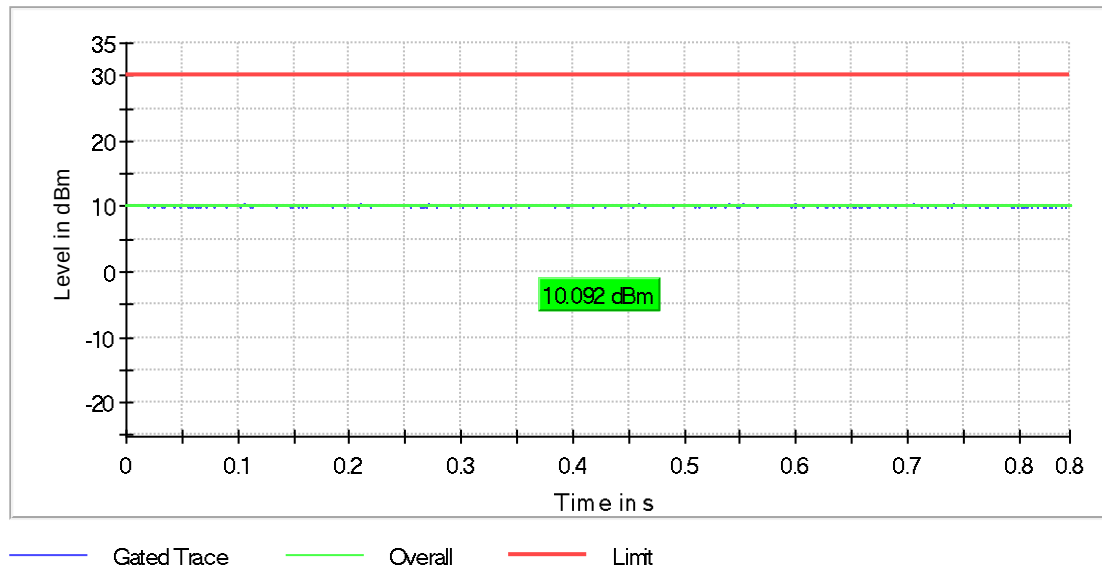
Setting	Instrument Value	Target Value
Start Frequency	5.71500 GHz	5.71500 GHz
Stop Frequency	5.79500 GHz	5.79500 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	57 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.11 dB	0.30 dB

RF output power (5755 MHz; 20.000 dBm; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5755.000000	10.1	30.0	10.1	83.624	PASS



Power Spectral Density (5755 MHz; 20.000 dBm; 40 MHz)

Customized settings.

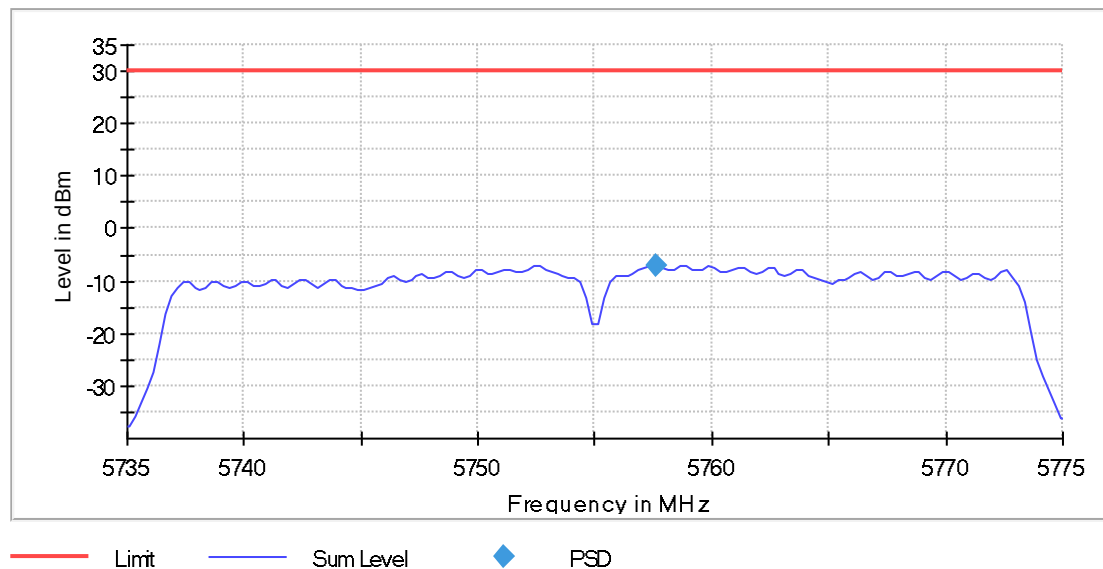
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5755.000000	5757.625000	-6.972	30.0	PASS

Ports

Port	Duty Cycle (%)
1	81.831



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.73500 GHz	5.73500 GHz
Stop Frequency	5.77500 GHz	5.77500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	<= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160
Sweptime	3.200 s	3.200 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5755 MHz; 20.000 dBm; 40 MHz)

Customized settings.

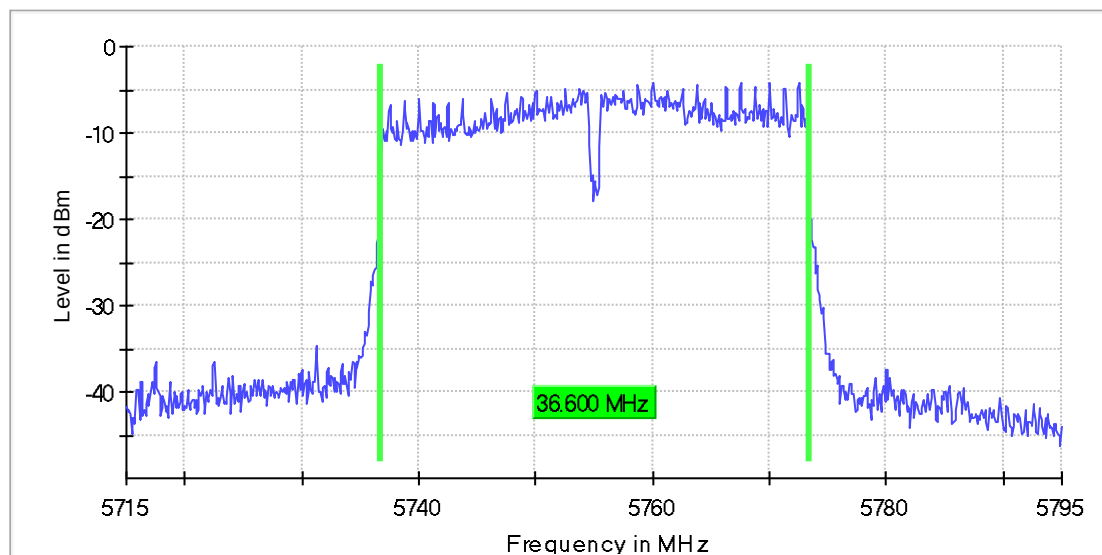
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5755.000000	36.600000	0.500000	---	5736.750000	5773.350000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5755.000000	-4.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.71500 GHz	5.71500 GHz
Stop Frequency	5.79500 GHz	5.79500 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	1.070 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	31 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.23 dB	0.30 dB

Occupied Channel Bandwidth 99% (5755 MHz; 20.000 dBm; 40 MHz)

Customized settings.

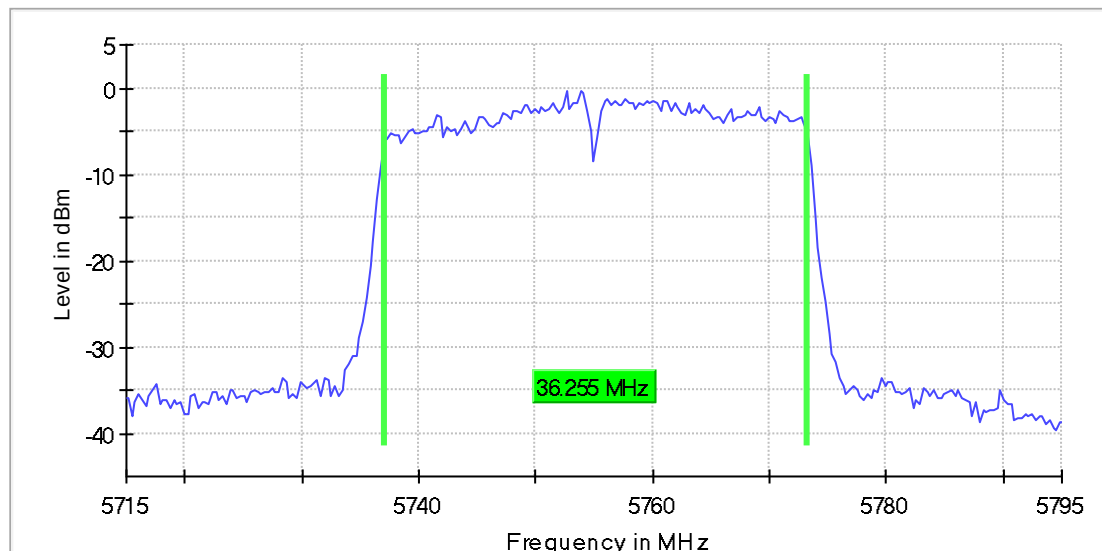
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5755.000000	36.254682	---	---	5737.022472	5773.277154

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

DUT Frequency (MHz)	Result
5755.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.71500 GHz	5.71500 GHz
Stop Frequency	5.79500 GHz	5.79500 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	<= 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	16 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.27 dB	0.30 dB
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Band Edge low (5755 MHz; 20.000 dBm; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

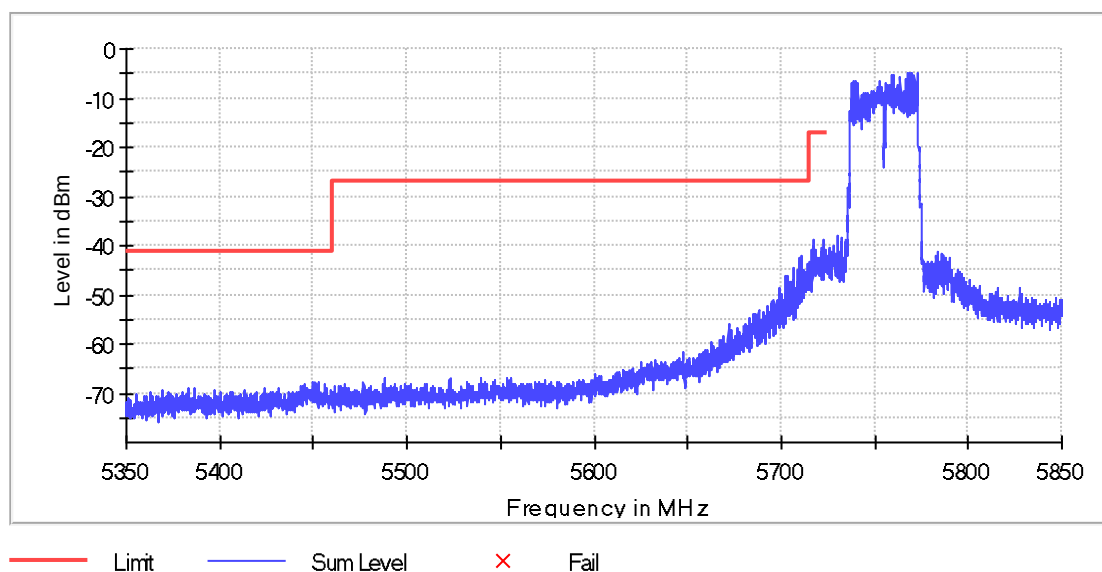
DUT Frequency (MHz)	Result
5755.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5772.525000	-4.9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5710.975000	-42.0	15.0	-27.0	PASS
5711.025000	-42.0	15.0	-27.0	PASS
5710.925000	-42.4	15.4	-27.0	PASS
5710.025000	-42.6	15.6	-27.0	PASS
5710.075000	-42.8	15.8	-27.0	PASS
5711.075000	-43.0	16.0	-27.0	PASS
5709.975000	-43.1	16.1	-27.0	PASS
5709.675000	-43.3	16.3	-27.0	PASS
5709.625000	-43.4	16.4	-27.0	PASS
5710.875000	-43.6	16.6	-27.0	PASS
5714.025000	-43.7	16.7	-27.0	PASS
5710.125000	-43.7	16.7	-27.0	PASS
5709.725000	-44.1	17.1	-27.0	PASS
5714.975000	-44.1	17.1	-27.0	PASS
5714.075000	-44.2	17.2	-27.0	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	5.85000 GHz	5.85000 GHz
Span	125.000 MHz	125.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2500	~ 2500
SweepTime	284.766 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	40	40
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	1 / max. 1	max. 1
Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.35000 GHz	5.35000 GHz
Stop Frequency	5.72500 GHz	5.72500 GHz
Span	375.000 MHz	375.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	7500	~ 7500
SweepTime	835.313 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 3	max. 3
Stable	0 / 1	1
Max Stable Difference	3.36 dB	0.50 dB

Emission Bandwidth 26 dB (5795 MHz; 20.000 dBm; 40 MHz)

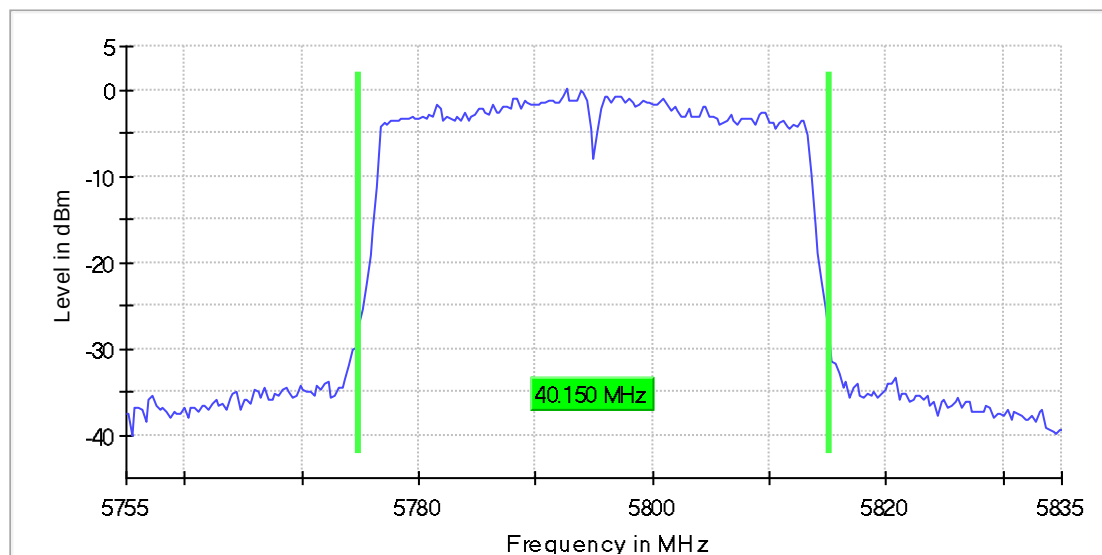
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

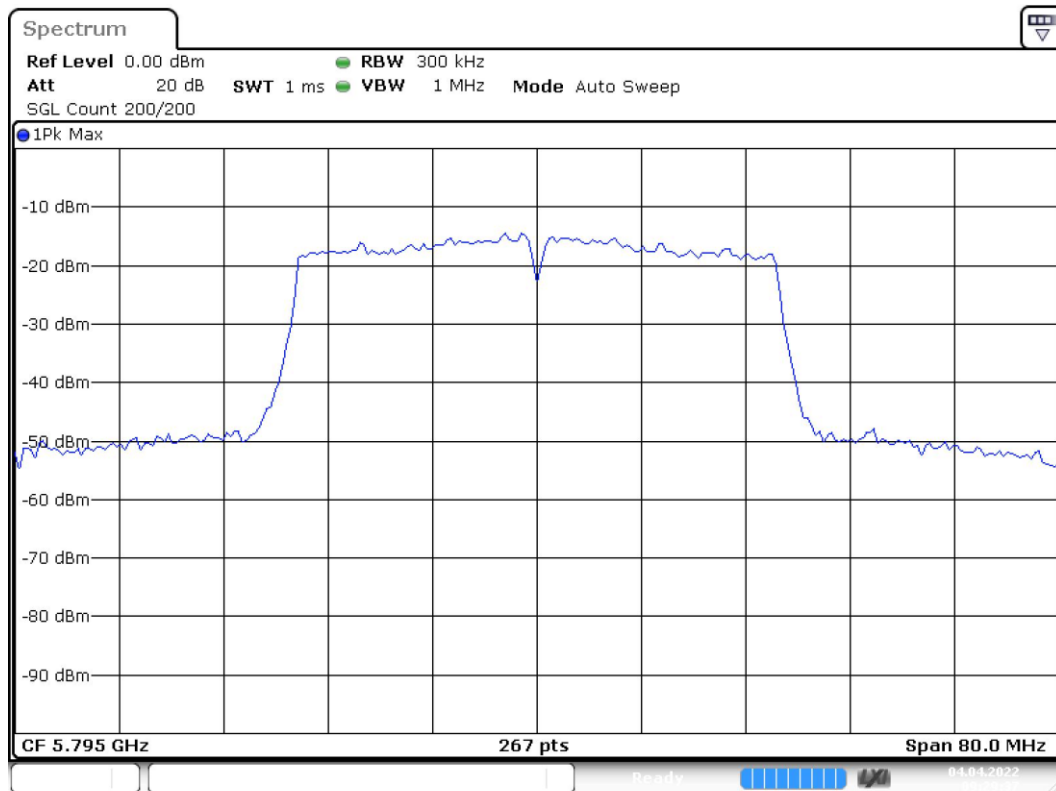
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5795.000000	40.149812	---	---	5774.925094	5815.074906

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5795.000000	0.1	PASS



Bandwidth



Date: 4.APR.2022 09:29:38

Measurement

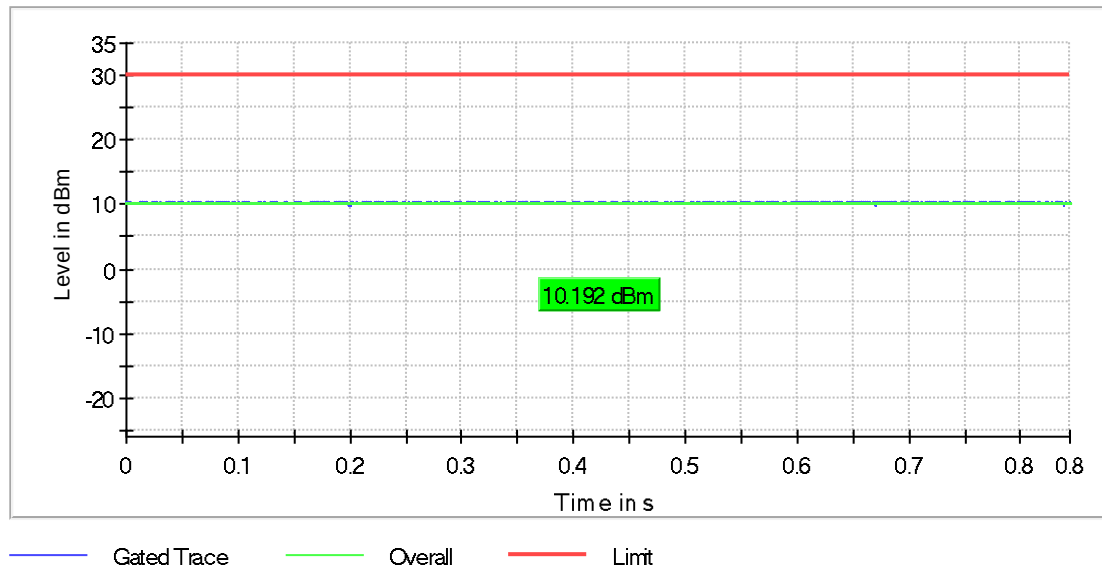
Setting	Instrument Value	Target Value
Start Frequency	5.75500 GHz	5.75500 GHz
Stop Frequency	5.83500 GHz	5.83500 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	85 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB

RF output power (5795 MHz; 20.000 dBm; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5795.000000	10.2	30.0	10.2	83.511	PASS



Power Spectral Density (5795 MHz; 20.000 dBm; 40 MHz)

Customized settings.

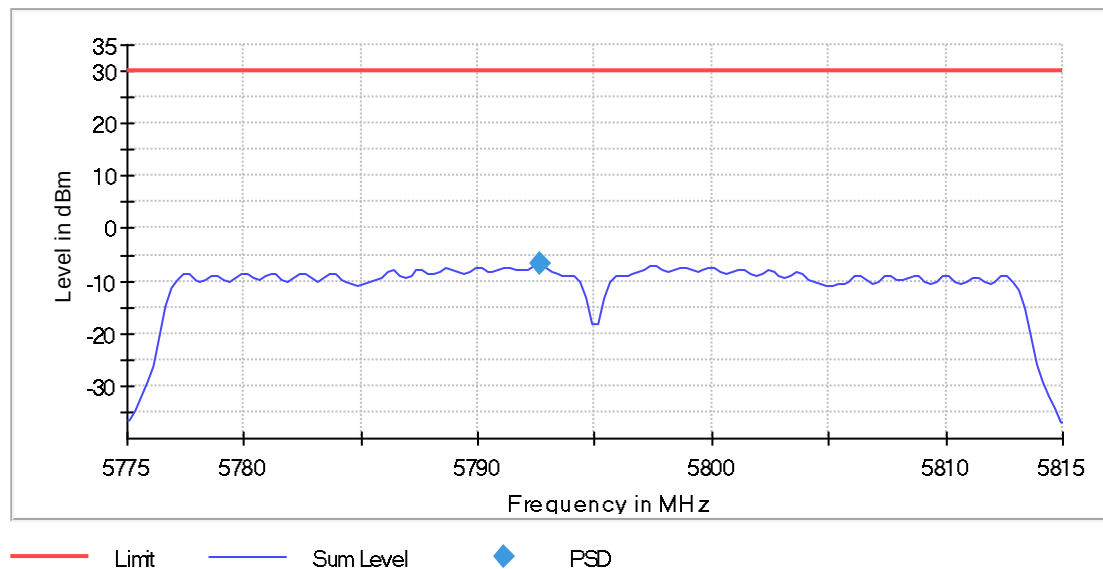
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5795.000000	5792.625000	-6.863	30.0	PASS

Ports

Port	Duty Cycle (%)
1	81.816



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.77500 GHz	5.77500 GHz
Stop Frequency	5.81500 GHz	5.81500 GHz
Span	40.000 MHz	40.000 MHz
RBW	500.000 kHz	<= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	160	~ 160
Sweptime	3.200 s	3.200 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5795 MHz; 20.000 dBm; 40 MHz)

Customized settings.

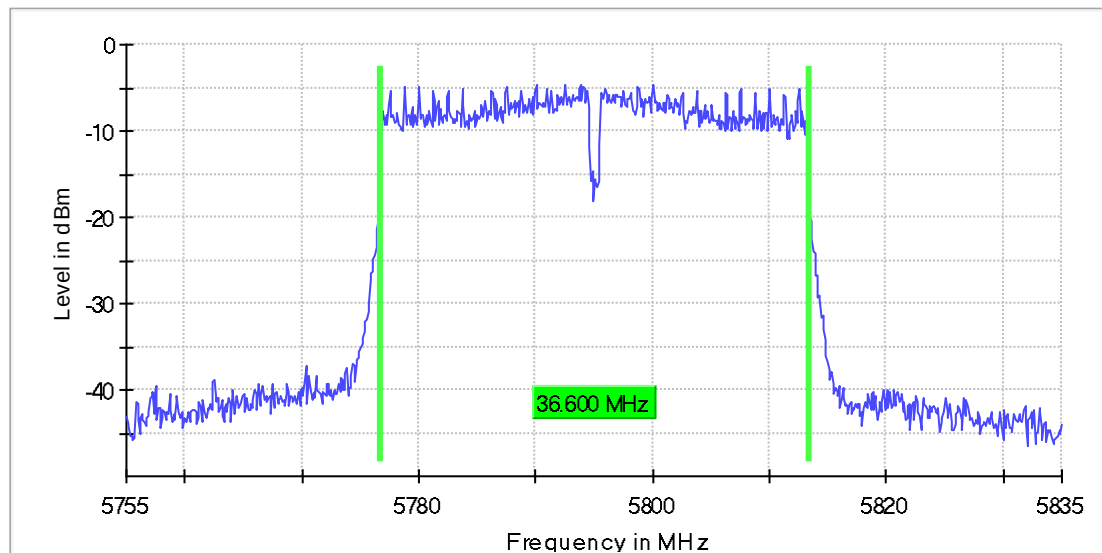
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5795.000000	36.600000	0.500000	---	5776.750000	5813.350000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5795.000000	-4.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.75500 GHz	5.75500 GHz
Stop Frequency	5.83500 GHz	5.83500 GHz
Span	80.000 MHz	80.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	800	~ 800
SweepTime	1.070 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	35 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.30 dB	0.30 dB

Occupied Channel Bandwidth 99% (5795 MHz; 20.000 dBm; 40 MHz)

Customized settings.

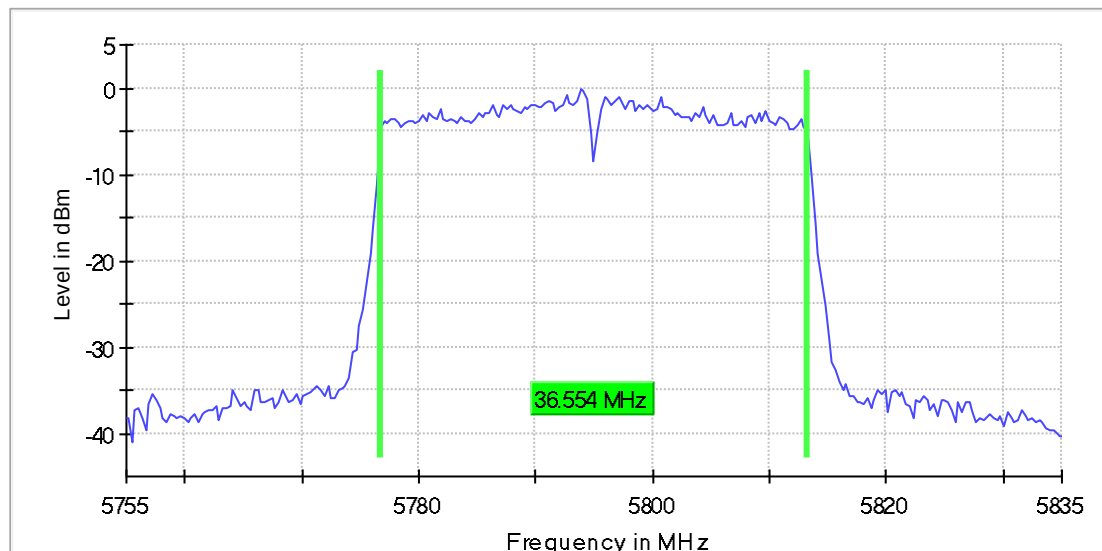
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5795.000000	36.554308	---	---	5776.722846	5813.277154

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

DUT Frequency (MHz)	Result
5795.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.75500 GHz	5.75500 GHz
Stop Frequency	5.83500 GHz	5.83500 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	<= 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	15 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.14 dB	0.30 dB
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Band Edge high (5795 MHz; 20.000 dBm; 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

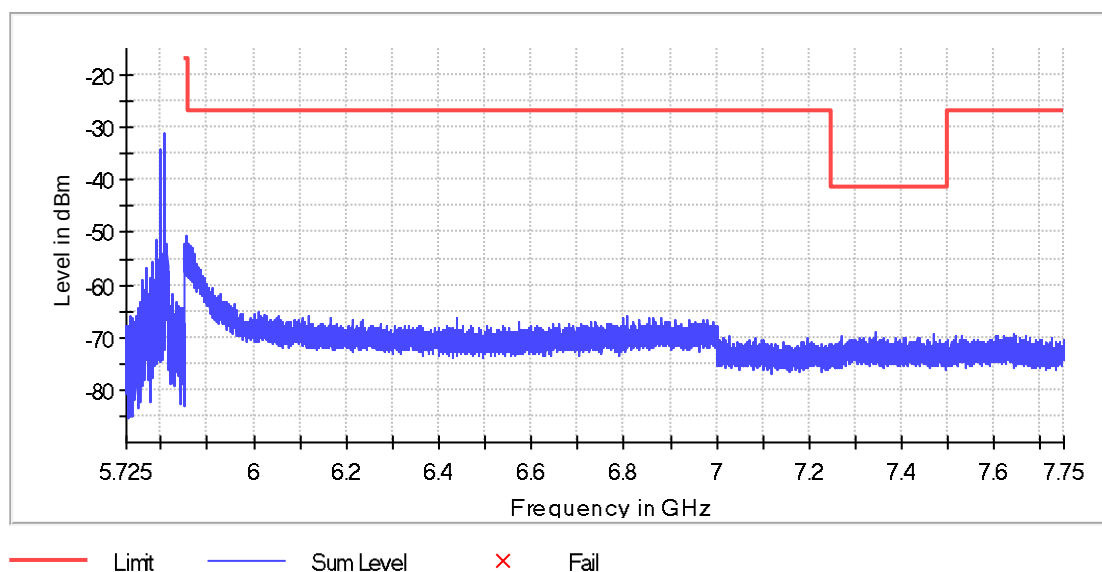
DUT Frequency (MHz)	Result
5795.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5808.375000	-31.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5865.325000	-52.5	25.5	-27.0	PASS
5860.975000	-52.8	25.8	-27.0	PASS
5865.375000	-52.9	25.9	-27.0	PASS
5860.925000	-52.9	25.9	-27.0	PASS
5866.325000	-52.9	25.9	-27.0	PASS
5861.025000	-53.0	26.0	-27.0	PASS
5865.275000	-53.3	26.3	-27.0	PASS
5861.075000	-53.6	26.6	-27.0	PASS
5866.375000	-53.6	26.6	-27.0	PASS
5866.275000	-53.7	26.7	-27.0	PASS
5865.425000	-53.8	26.8	-27.0	PASS
5862.175000	-54.0	27.0	-27.0	PASS
5864.475000	-54.1	27.1	-27.0	PASS
5870.825000	-54.2	27.2	-27.0	PASS
5870.875000	-54.3	27.3	-27.0	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	5.85000 GHz	5.85000 GHz
Span	125.000 MHz	125.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2500	~ 2500
SweepTime	284.766 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	40	40
Filter	3 dB	3 dB
Trace Mode	Min Hold	Min Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	1 / max. 1	max. 1
Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.85000 GHz	5.85000 GHz
Stop Frequency	6.40000 GHz	6.40000 GHz
Span	550.000 MHz	550.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	11000	~ 11000
SweepTime	11.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 3	max. 3
Stable	0 / 1	1
Max Stable Difference	4.38 dB	0.50 dB

FCC 15.407 2015

DUT Information

Frequencies

WLAN CH 42 (5210 MHz) WLAN CH 155 (5775 MHz)

Bandwidths

80 MHz (80 MHz)

Power

20.000 dBm (20 dBm)

Beamforming Gain

20.000 dBm (20 dBm) 0 dB

Gain Tables

20.000 dBm (20 dBm) Port 1: 0dBi;

DUT Settings

No. of transmission chains	1
DFS capability	Yes
DFS Mode	Master
Equipment Type	Portable
TPC	No

Hardware Setup: WMS Measurements\Hardware Setup

Spectrum Analyzer:

SA FSV 40 (SA FSV 40) @ VISA (ADR
TCPIP::192.168.48.149::INST0::INSTR), SN 1321.3008K39/101229,
FW 3.40

Vector Generator:

VG SMBV100A (VG SMBV100A) @ VISA (ADR
TCPIP::192.168.48.25::INST0::INSTR), SN 260451, FW 4.15.125.49

Generator:

SMB100A (SMB100A) @ VISA (ADR
TCPIP::192.168.48.30::INST0::INSTR), SN 178361, FW 3.20.390.24
/ Drv:Rev 2.21.0, 07/2016, CVI 2015

OSP:

OSP-B157W (OSP-B157W) @ VISA (ADR
TCPIP::192.168.48.157::INST0::INSTR), SN 1527.1144. /, FW
1.23.0.2

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5210.000	20.0	80.000000	PASS
RF output power	5210.000	20.0	80.000000	PASS
Power Spectral Density	5210.000	20.0	80.000000	PASS
Minimum Emission Bandwidth 6 dB	5210.000	20.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5210.000	20.0	80.000000	PASS
Band Edge low	5210.000	20.0	80.000000	PASS
Band Edge high	5210.000	20.0	80.000000	PASS

Emission Bandwidth 26 dB (5210 MHz; 20.000 dBm; 80 MHz)

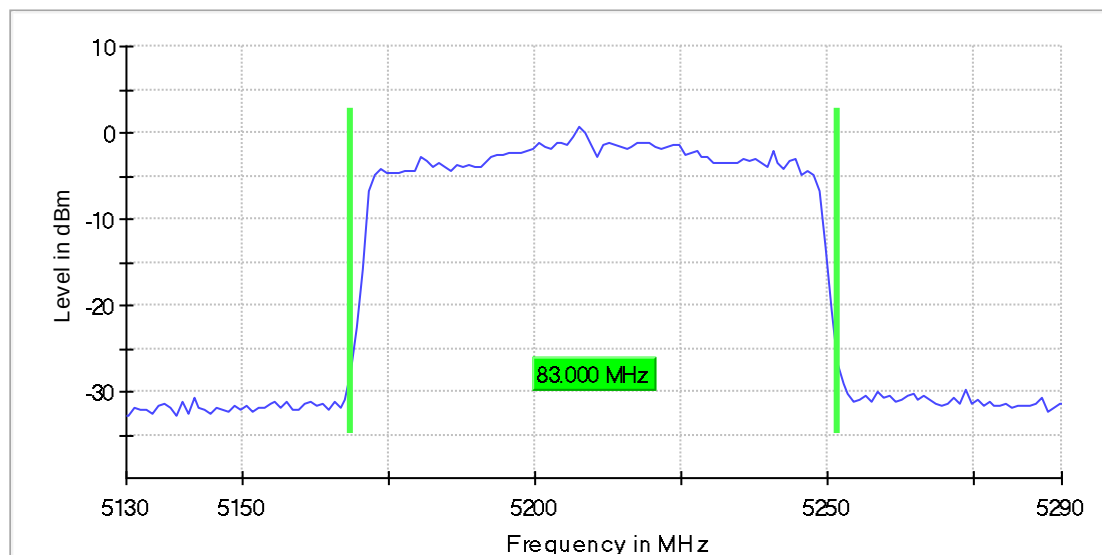
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

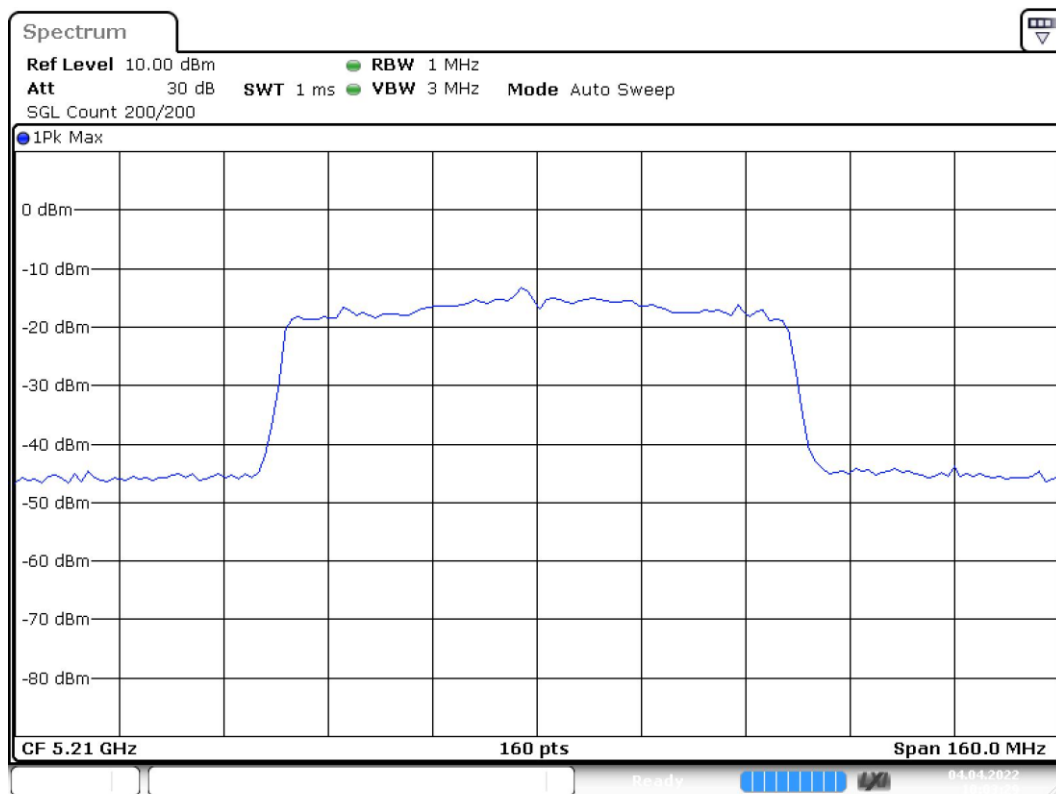
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	83.000000	---	---	5168.500000	5251.500000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	0.7	PASS



Bandwidth



Date: 4.APR.2022 10:03:29

Measurement

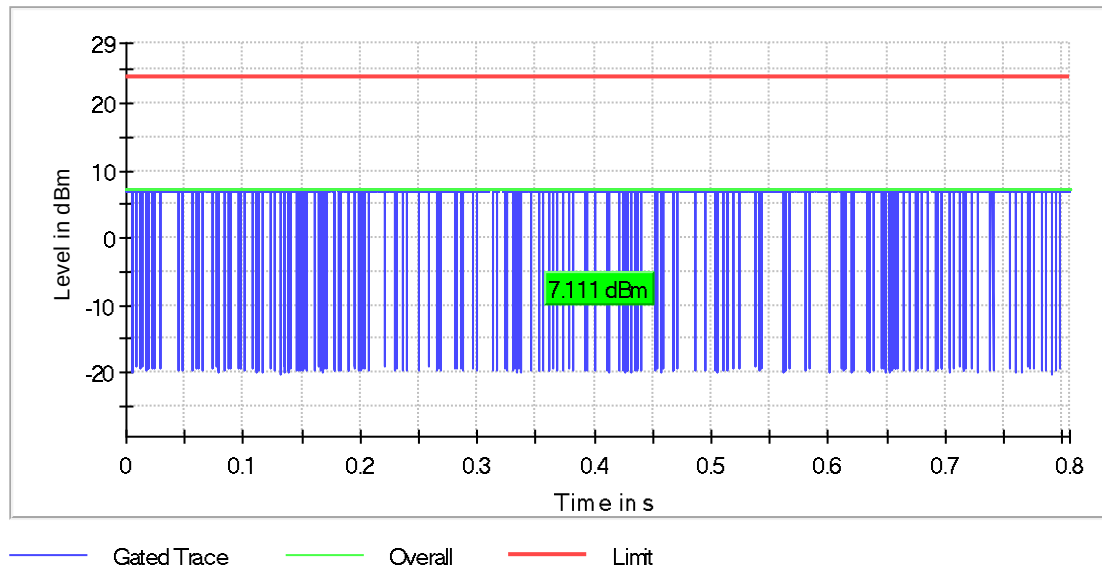
Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	45 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.01 dB	0.30 dB

RF output power (5210 MHz; 20.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5210.000000	7.1	24.0	7.1	79.484	PASS



Power Spectral Density (5210 MHz; 20.000 dBm; 80 MHz)

Customized settings.

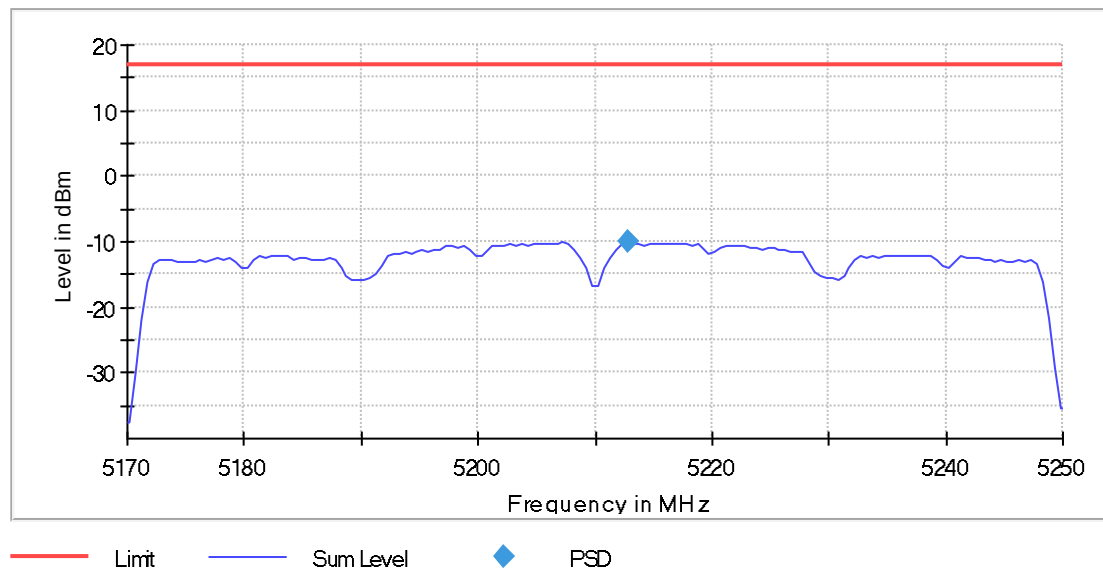
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5210.000000	5212.750000	-10.003	17.0	PASS

Ports

Port	Duty Cycle (%)
1	76.882



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.17000 GHz	5.17000 GHz
Stop Frequency	5.25000 GHz	5.25000 GHz
Span	80.000 MHz	80.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
Sweptime	3.200 s	3.200 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5210 MHz; 20.000 dBm; 80 MHz)

Customized settings.

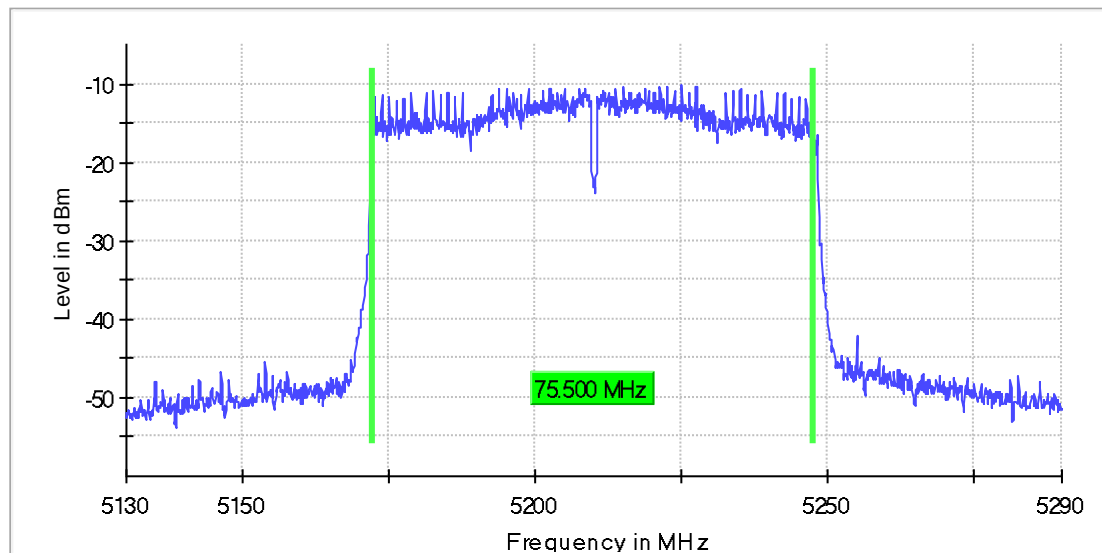
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5210.000000	75.500000	---	---	5172.150000	5247.650000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5210.000000	-10.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
SweepTime	360.278 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	50 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.27 dB	0.30 dB

Occupied Channel Bandwidth 99% (5210 MHz; 20.000 dBm; 80 MHz)

Customized settings.

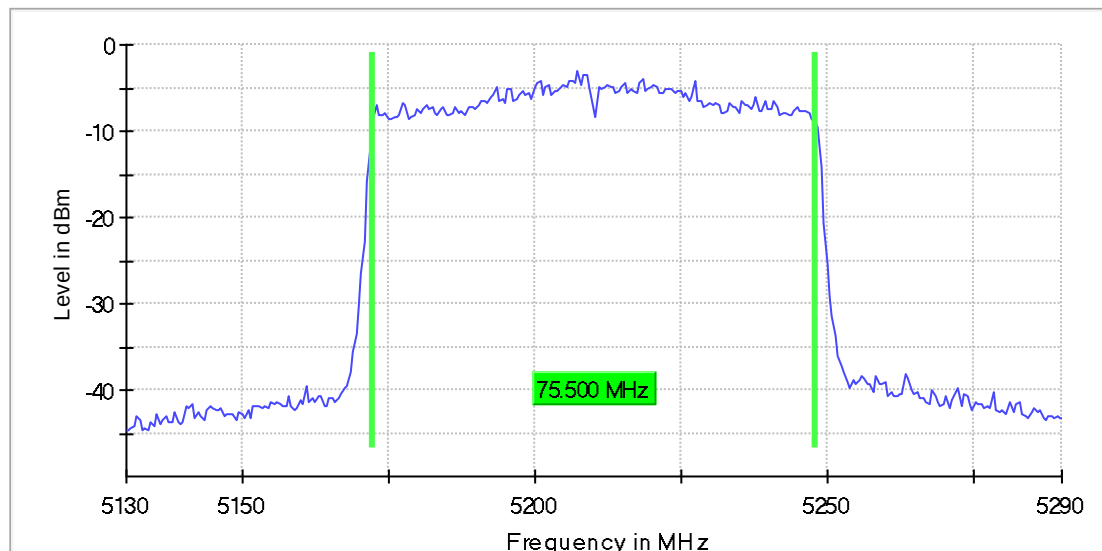
Test according to FCC title 47 part 15 §15.407(a),(e),

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



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz
RBW	500.000 kHz	<= 800.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	35 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.16 dB	0.30 dB
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Band Edge low (5210 MHz; 20.000 dBm; 80 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

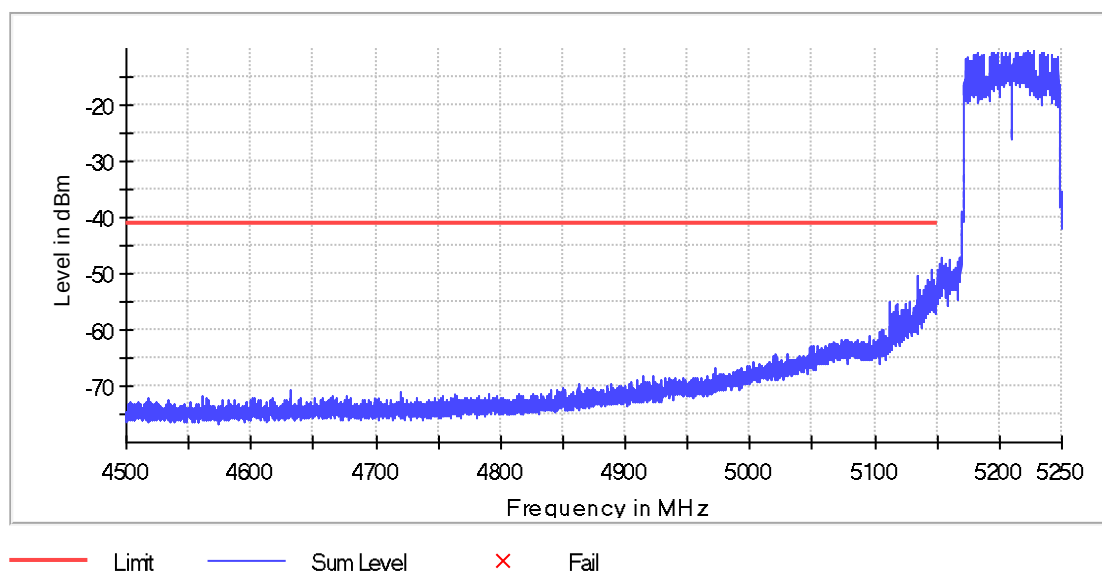
DUT Frequency (MHz)	Result
5210.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5222.525000	-10.3

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5146.225000	-49.1	7.9	-41.2	PASS
5146.275000	-49.3	8.0	-41.2	PASS
5135.025000	-50.3	9.1	-41.2	PASS
5134.975000	-50.4	9.2	-41.2	PASS
5146.325000	-50.9	9.7	-41.2	PASS
5142.525000	-50.9	9.7	-41.2	PASS
5142.475000	-51.1	9.9	-41.2	PASS
5147.525000	-51.2	10.0	-41.2	PASS
5146.175000	-51.4	10.2	-41.2	PASS
5135.075000	-51.5	10.2	-41.2	PASS
5143.425000	-51.5	10.3	-41.2	PASS
5142.575000	-51.7	10.5	-41.2	PASS
5141.275000	-52.0	10.7	-41.2	PASS
5143.475000	-52.0	10.8	-41.2	PASS
5148.125000	-52.1	10.9	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.25000 GHz	5.25000 GHz
Span	100.000 MHz	100.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2000	~ 2000
SweepTime	227.813 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	3.38 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	4.50000 GHz	4.50000 GHz
Stop Frequency	5.15000 GHz	5.15000 GHz
Span	650.000 MHz	650.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	13000	~ 13000
SweepTime	13.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.41 dB	0.50 dB

Band Edge high (5210 MHz; 20.000 dBm; 80 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

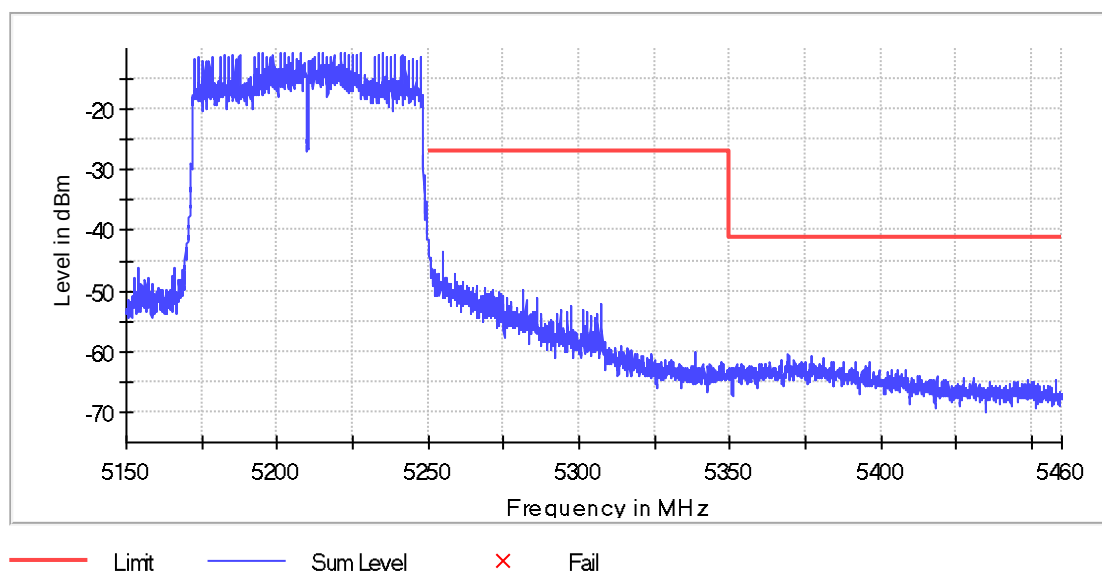
DUT Frequency (MHz)	Result
5210.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5227.525000	-10.5

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5250.025000	-41.7	14.7	-27.0	PASS
5250.275000	-42.7	15.7	-27.0	PASS
5250.225000	-42.7	15.7	-27.0	PASS
5250.075000	-42.9	15.9	-27.0	PASS
5250.175000	-43.2	16.2	-27.0	PASS
5254.975000	-43.4	16.4	-27.0	PASS
5255.025000	-43.4	16.4	-27.0	PASS
5250.375000	-43.5	16.5	-27.0	PASS
5250.475000	-43.7	16.7	-27.0	PASS
5250.425000	-43.7	16.7	-27.0	PASS
5250.125000	-44.0	17.0	-27.0	PASS
5250.525000	-44.0	17.0	-27.0	PASS
5250.325000	-44.1	17.1	-27.0	PASS
5250.725000	-44.4	17.4	-27.0	PASS
5250.675000	-44.4	17.4	-27.0	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.25000 GHz	5.25000 GHz
Span	100.000 MHz	100.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2000	~ 2000
SweepTime	227.813 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	2.92 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.46000 GHz	5.46000 GHz
Span	210.000 MHz	210.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	4200	~ 4200
SweepTime	474.609 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 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
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

FCC 15.407 2015

DUT Information

Frequencies

WLAN CH 42 (5210 MHz)
WLAN CH 106 (5530 MHz)

WLAN CH 155 (5775 MHz)
WLAN CH 122 (5610 MHz)

WLAN CH 58 (5290 MHz)

Bandwidths

80 MHz (80 MHz)

Power

20.000 dBm (20 dBm)

Beamforming Gain

20.000 dBm (20 dBm) 0 dB

Gain Tables

20.000 dBm (20 dBm) Port 1: 0dBi;

DUT Settings

No. of transmission chains	1
DFS capability	Yes
DFS Mode	Master
Equipment Type	Portable
TPC	No

Hardware Setup: WMS Measurements\Hardware Setup

Spectrum Analyzer:

SA FSV 40 (SA FSV 40) @ VISA (ADR
TCPIP::192.168.48.149::INST0::INSTR), SN 1321.3008K39/101229,
FW 3.40

Vector Generator:

VG SMBV100A (VG SMBV100A) @ VISA (ADR
TCPIP::192.168.48.25::INST0::INSTR), SN 260451, FW 4.15.125.49

Generator:

SMB100A (SMB100A) @ VISA (ADR
TCPIP::192.168.48.30::INST0::INSTR), SN 178361, FW / Drv:Rev
2.21.0, 07/2016, CVI 2015

OSP:

OSP-B157W (OSP-B157W) @ VISA (ADR
TCPIP::192.168.48.157::INST0::INSTR), SN 1527.1144. /, FW
1.23.0.2

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5290.000	20.0	80.000000	PASS
RF output power	5290.000	20.0	80.000000	PASS
Power Spectral Density	5290.000	20.0	80.000000	PASS
Minimum Emission Bandwidth 6 dB	5290.000	20.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5290.000	20.0	80.000000	PASS
Band Edge low	5290.000	20.0	80.000000	PASS
Band Edge high	5290.000	20.0	80.000000	PASS

Emission Bandwidth 26 dB (5290 MHz; 20.000 dBm; 80 MHz)

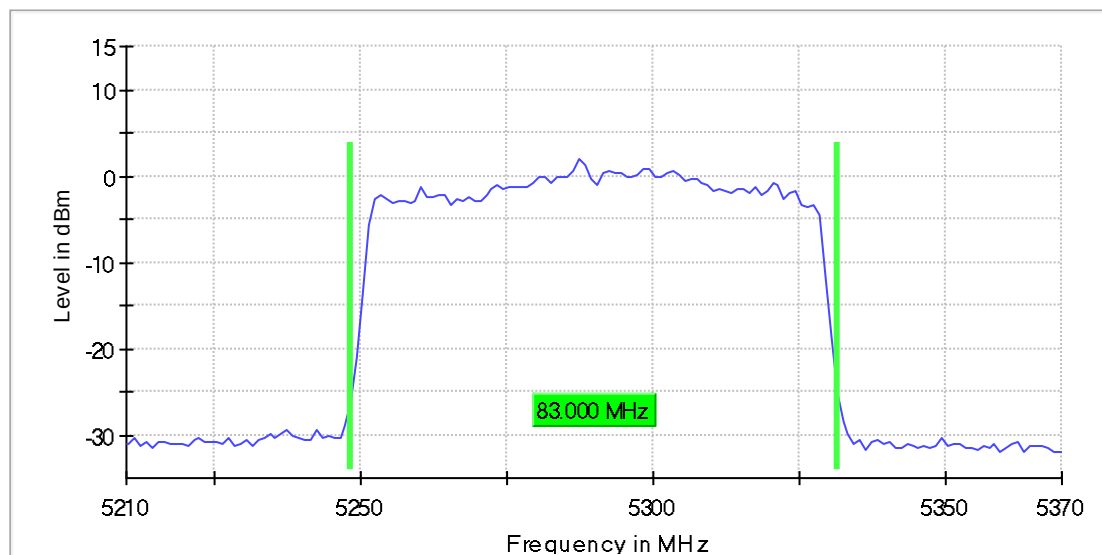
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

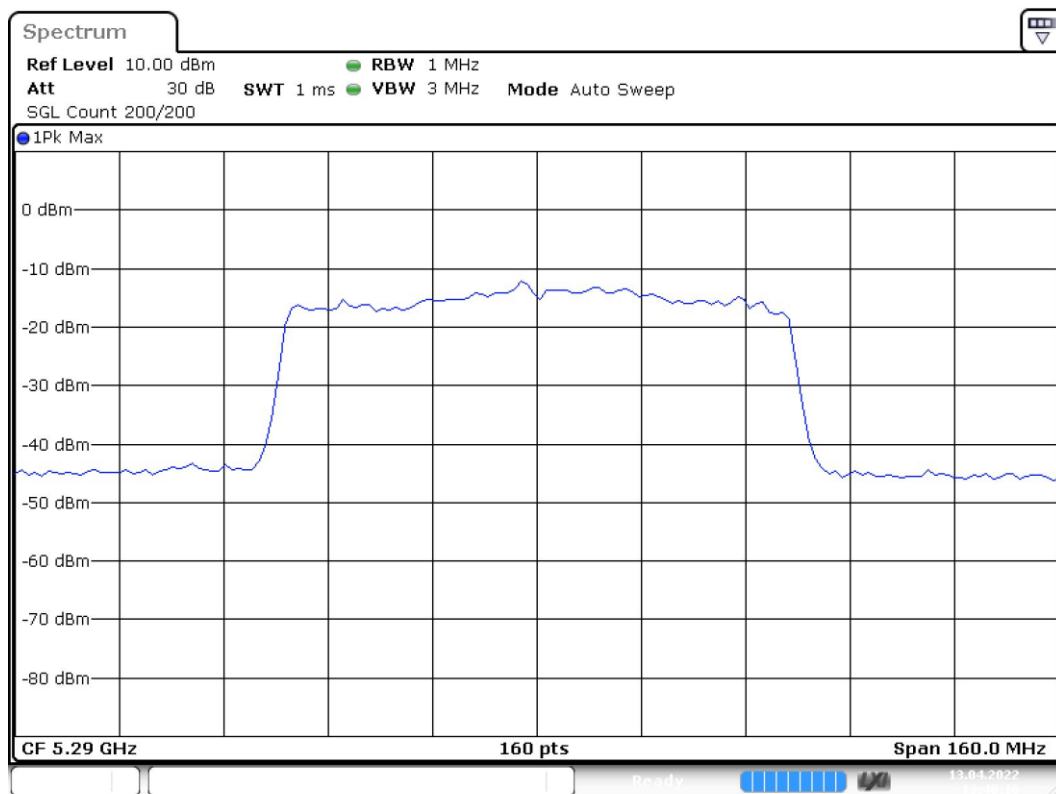
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5290.000000	83.000000	---	---	5248.500000	5331.500000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5290.000000	1.9	PASS



Bandwidth



Date: 13.APR.2022 13:40:17

Measurement

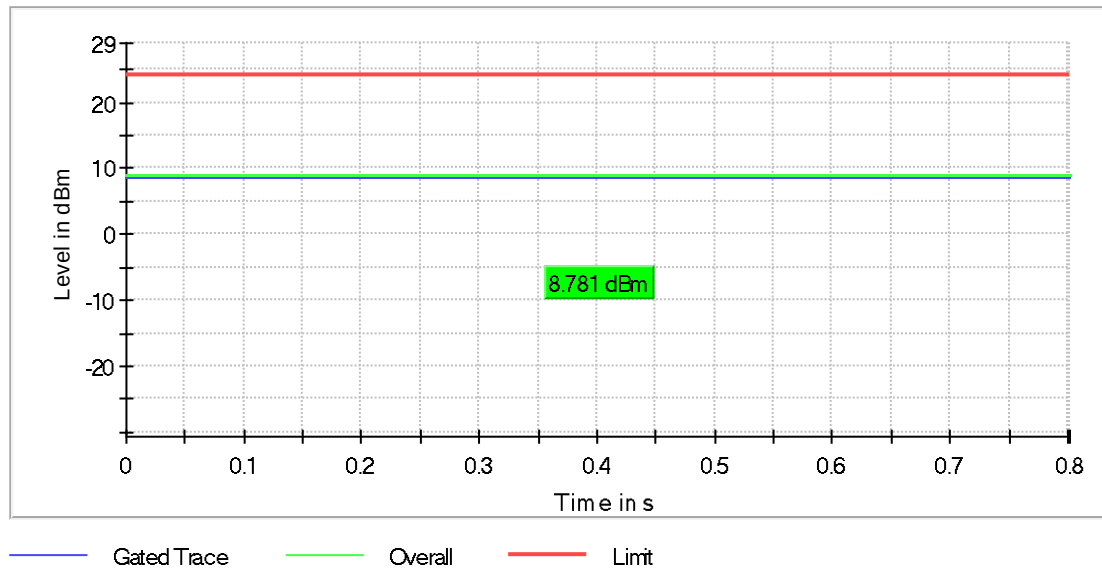
Setting	Instrument Value	Target Value
Start Frequency	5.21000 GHz	5.21000 GHz
Stop Frequency	5.37000 GHz	5.37000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	37 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.08 dB	0.30 dB

RF output power (5290 MHz; 20.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5290.000000	8.8	24.0	8.8	79.016	PASS



Power Spectral Density (5290 MHz; 20.000 dBm; 80 MHz)

Customized settings.

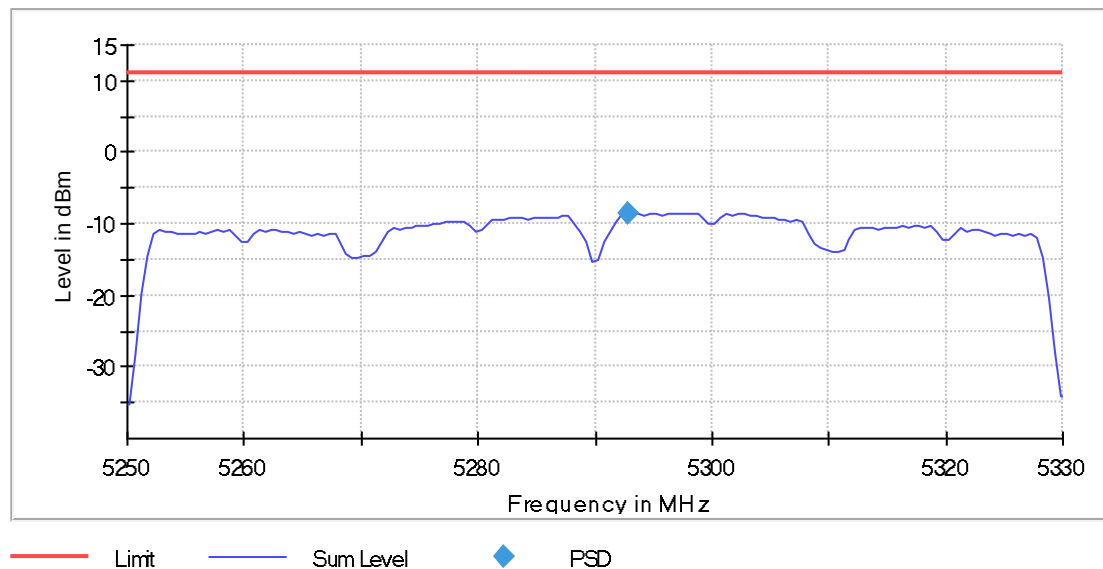
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5290.000000	5292.750000	-8.454	11.0	PASS

Ports

Port	Duty Cycle (%)
1	76.745



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.33000 GHz	5.33000 GHz
Span	80.000 MHz	80.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
Sweptime	3.200 s	3.200 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5290 MHz; 20.000 dBm; 80 MHz)

Customized settings.

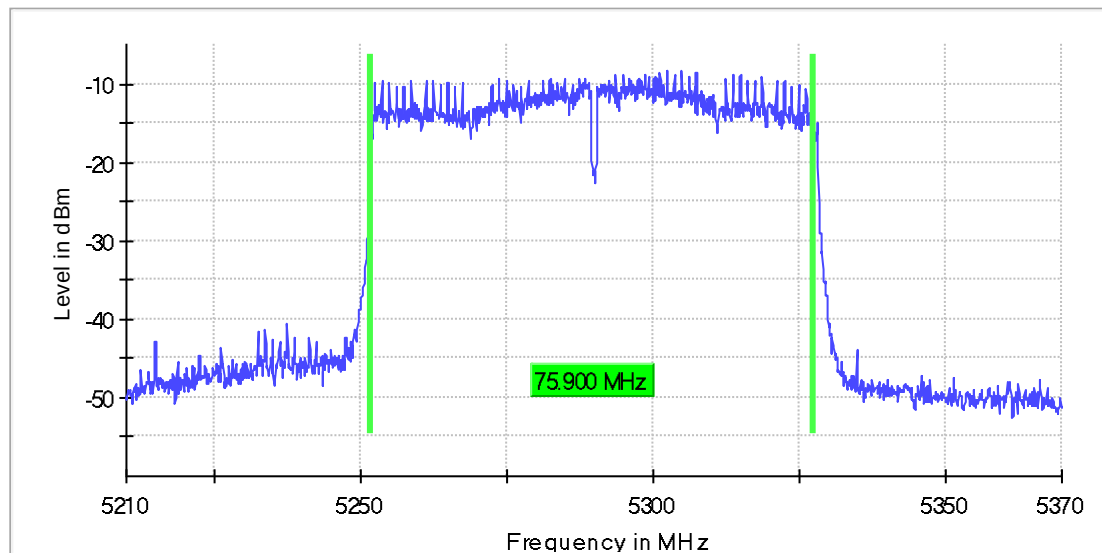
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5290.000000	75.900000	---	---	5251.750000	5327.650000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5290.000000	-8.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.21000 GHz	5.21000 GHz
Stop Frequency	5.37000 GHz	5.37000 GHz
Span	160.000 MHz	160.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
SweepTime	360.278 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	35 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.27 dB	0.30 dB

Occupied Channel Bandwidth 99% (5290 MHz; 20.000 dBm; 80 MHz)

Customized settings.

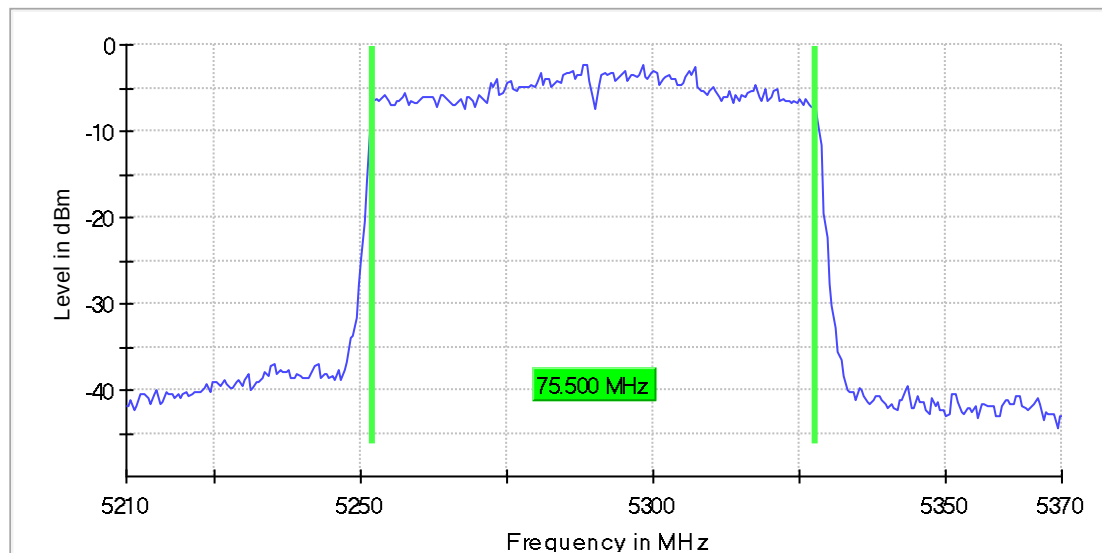
Test according to FCC title 47 part 15 §15.407(a),(e),

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

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

DUT Frequency (MHz)	Result
5290.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.21000 GHz	5.21000 GHz
Stop Frequency	5.37000 GHz	5.37000 GHz
Span	160.000 MHz	160.000 MHz
RBW	500.000 kHz	<= 800.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	26 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.22 dB	0.30 dB
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Band Edge low (5290 MHz; 20.000 dBm; 80 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

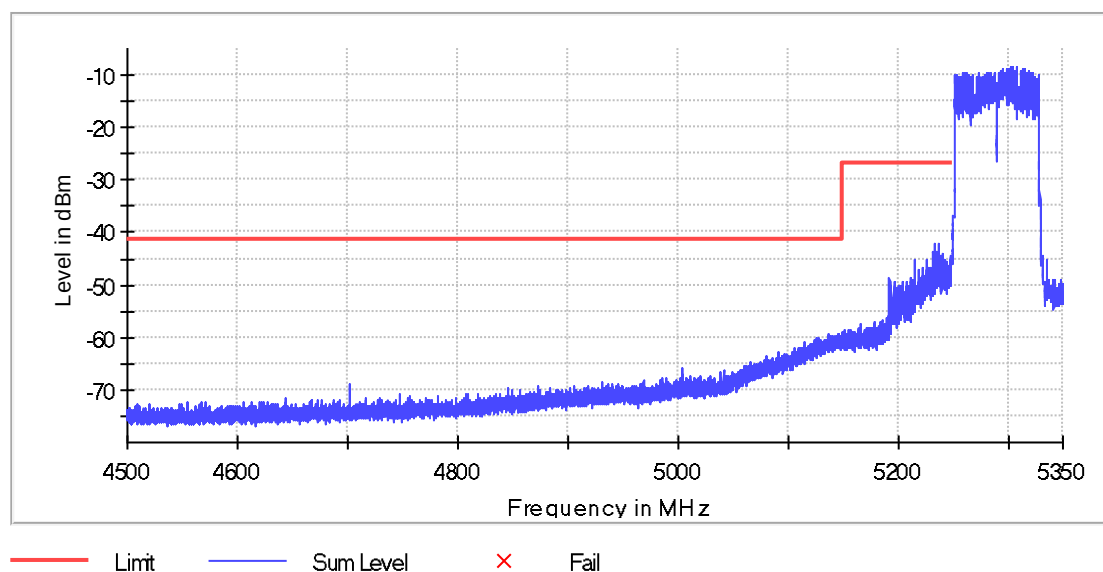
DUT Frequency (MHz)	Result
5290.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5304.975000	-8.4

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5249.975000	-39.7	12.7	-27.0	PASS
5249.725000	-40.1	13.1	-27.0	PASS
5249.825000	-40.2	13.2	-27.0	PASS
5249.675000	-40.4	13.4	-27.0	PASS
5249.775000	-40.4	13.4	-27.0	PASS
5249.875000	-41.2	14.2	-27.0	PASS
5249.925000	-41.4	14.4	-27.0	PASS
5237.525000	-42.2	15.2	-27.0	PASS
5233.775000	-42.2	15.2	-27.0	PASS
5237.475000	-42.5	15.5	-27.0	PASS
5233.725000	-42.7	15.7	-27.0	PASS
5237.575000	-42.8	15.8	-27.0	PASS
5249.575000	-43.3	16.3	-27.0	PASS
5249.425000	-43.4	16.4	-27.0	PASS
5249.525000	-43.5	16.5	-27.0	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.35000 GHz	5.35000 GHz
Span	100.000 MHz	100.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2000	~ 2000
SweepTime	227.813 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	4.34 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	4.50000 GHz	4.50000 GHz
Stop Frequency	5.25000 GHz	5.25000 GHz
Span	750.000 MHz	750.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	15000	~ 15000
SweepTime	15.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.14 dB	0.50 dB

Band Edge high (5290 MHz; 20.000 dBm; 80 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

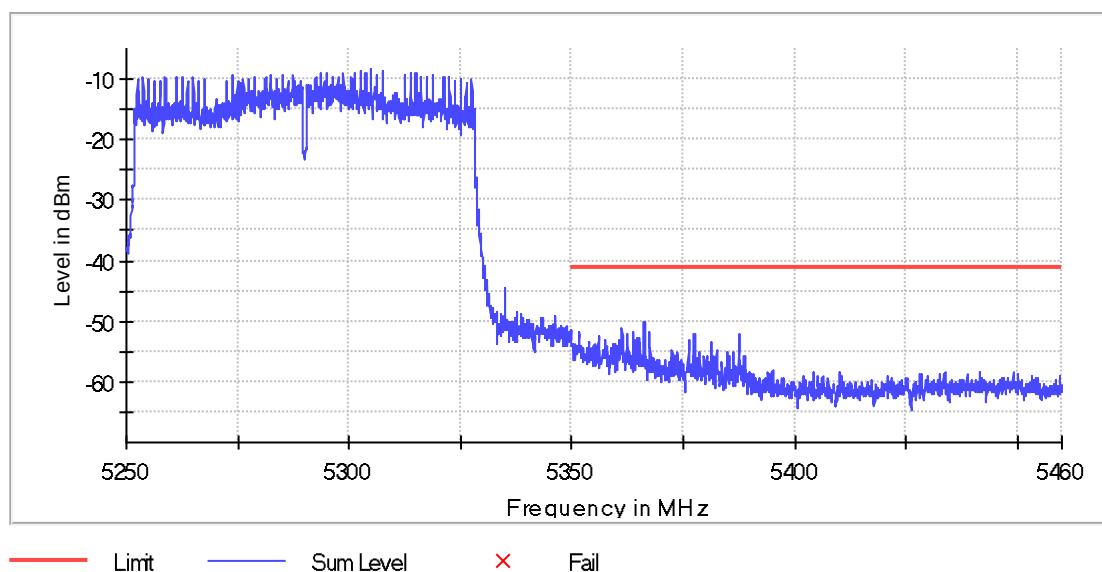
DUT Frequency (MHz)	Result
5290.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5304.975000	-8.4

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5366.275000	-50.1	8.9	-41.2	PASS
5366.225000	-50.2	9.0	-41.2	PASS
5361.275000	-51.2	10.0	-41.2	PASS
5361.225000	-51.3	10.1	-41.2	PASS
5363.775000	-51.7	10.5	-41.2	PASS
5363.725000	-51.7	10.5	-41.2	PASS
5367.525000	-51.8	10.6	-41.2	PASS
5351.575000	-51.8	10.6	-41.2	PASS
5351.525000	-51.8	10.6	-41.2	PASS
5367.475000	-51.9	10.6	-41.2	PASS
5366.325000	-51.9	10.7	-41.2	PASS
5377.525000	-52.0	10.8	-41.2	PASS
5362.525000	-52.0	10.8	-41.2	PASS
5362.475000	-52.1	10.8	-41.2	PASS
5377.475000	-52.2	10.9	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.35000 GHz	5.35000 GHz
Span	100.000 MHz	100.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2000	~ 2000
SweepTime	227.813 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	3.29 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.35000 GHz	5.35000 GHz
Stop Frequency	5.46000 GHz	5.46000 GHz
Span	110.000 MHz	110.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2200	~ 2200
SweepTime	246.797 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 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
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

FCC 15.407 2015

DUT Information

Frequencies

WLAN CH 42 (5210 MHz)
WLAN CH 106 (5530 MHz)

WLAN CH 155 (5775 MHz)
WLAN CH 122 (5610 MHz)

WLAN CH 58 (5290 MHz)

Bandwidths

80 MHz (80 MHz)

Power

20.000 dBm (20 dBm)

Beamforming Gain

20.000 dBm (20 dBm) 0 dB

Gain Tables

20.000 dBm (20 dBm) Port 1: 0dBi;

DUT Settings

No. of transmission chains	1
DFS capability	Yes
DFS Mode	Master
Equipment Type	Portable
TPC	No

Hardware Setup: WMS Measurements\Hardware Setup

Spectrum Analyzer:

SA FSV 40 (SA FSV 40) @ VISA (ADR
TCPIP::192.168.48.149::INST0::INSTR), SN 1321.3008K39/101229,
FW 3.40

Vector Generator:

VG SMBV100A (VG SMBV100A) @ VISA (ADR
TCPIP::192.168.48.25::INST0::INSTR), SN 260451, FW 4.15.125.49

Generator:

SMB100A (SMB100A) @ VISA (ADR
TCPIP::192.168.48.30::INST0::INSTR), SN 178361, FW / Drv:Rev
2.21.0, 07/2016, CVI 2015

OSP:

OSP-B157W (OSP-B157W) @ VISA (ADR
TCPIP::192.168.48.157::INST0::INSTR), SN 1527.1144. /, FW
1.23.0.2

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5530.000	20.0	80.000000	PASS
RF output power	5530.000	20.0	80.000000	PASS
Power Spectral Density	5530.000	20.0	80.000000	PASS
Minimum Emission Bandwidth 6 dB	5530.000	20.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5530.000	20.0	80.000000	PASS
Band Edge low	5530.000	20.0	80.000000	PASS
Emission Bandwidth 26 dB	5610.000	20.0	80.000000	PASS
RF output power	5610.000	20.0	80.000000	PASS
Power Spectral Density	5610.000	20.0	80.000000	PASS
Minimum Emission Bandwidth 6 dB	5610.000	20.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5610.000	20.0	80.000000	PASS
Band Edge high	5610.000	20.0	80.000000	PASS

Emission Bandwidth 26 dB (5530 MHz; 20.000 dBm; 80 MHz)

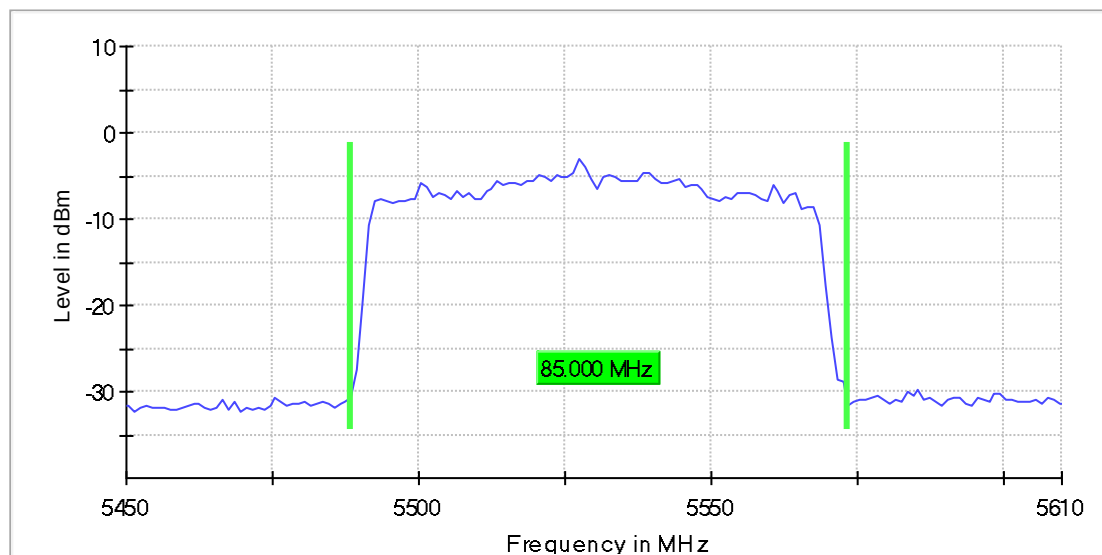
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

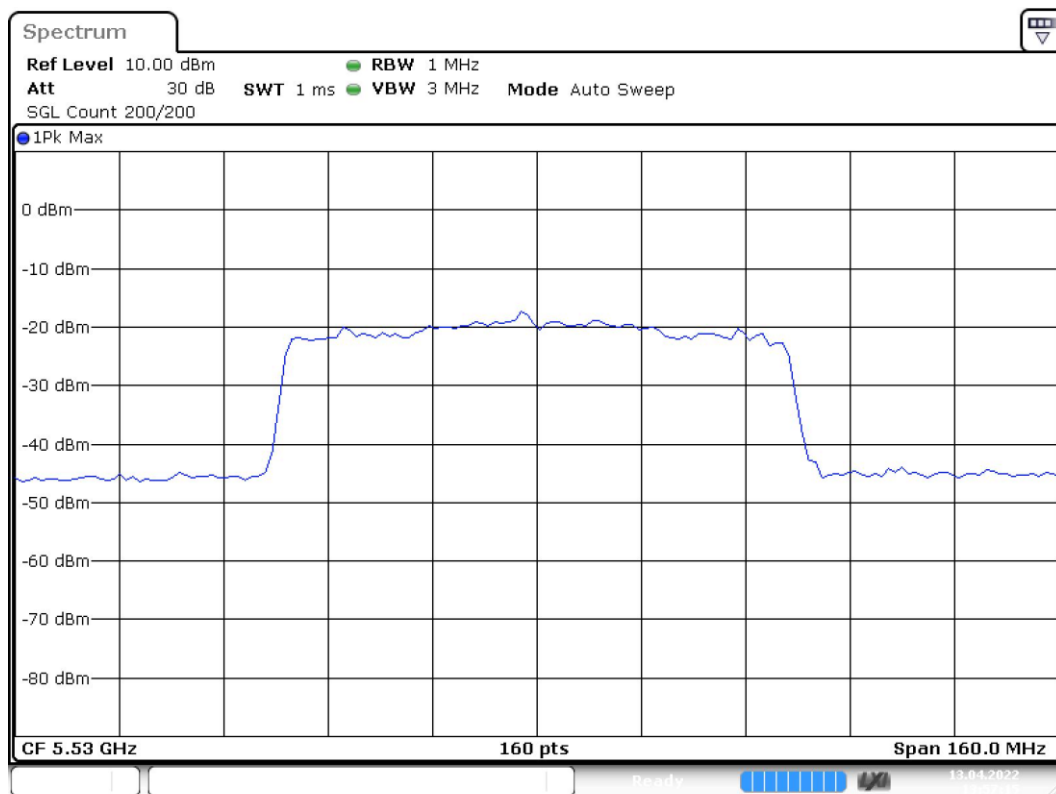
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5530.000000	85.000000	---	---	5488.500000	5573.500000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5530.000000	-3.1	PASS



Bandwidth



Date: 13.APR.2022 13:57:15

Measurement

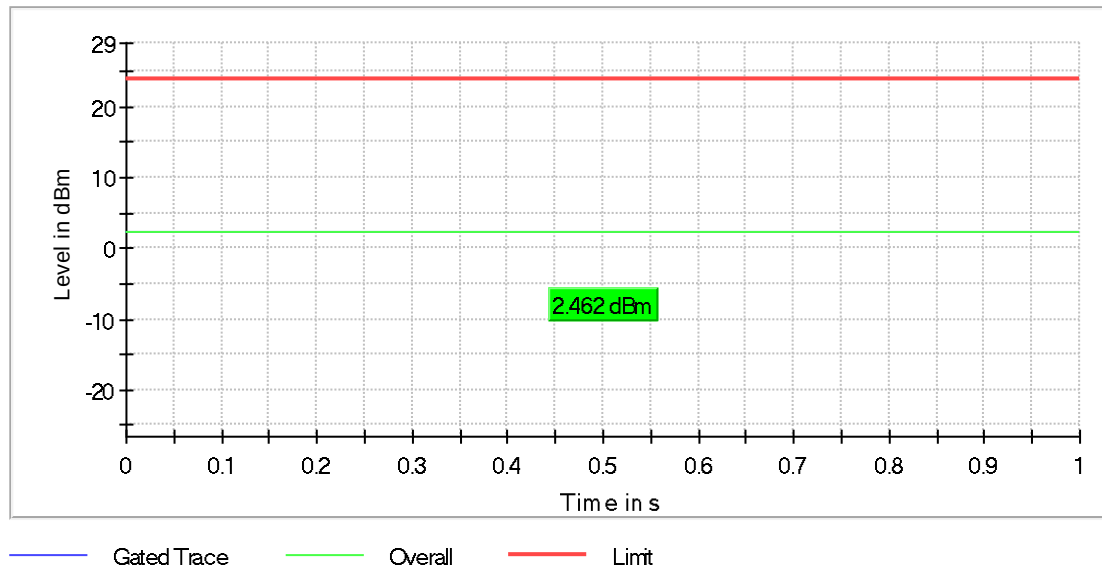
Setting	Instrument Value	Target Value
Start Frequency	5.45000 GHz	5.45000 GHz
Stop Frequency	5.61000 GHz	5.61000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	23 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.11 dB	0.30 dB

RF output power (5530 MHz; 20.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5530.000000	2.5	24.0	2.5	100.000	PASS



Power Spectral Density (5530 MHz; 20.000 dBm; 80 MHz)

Customized settings.

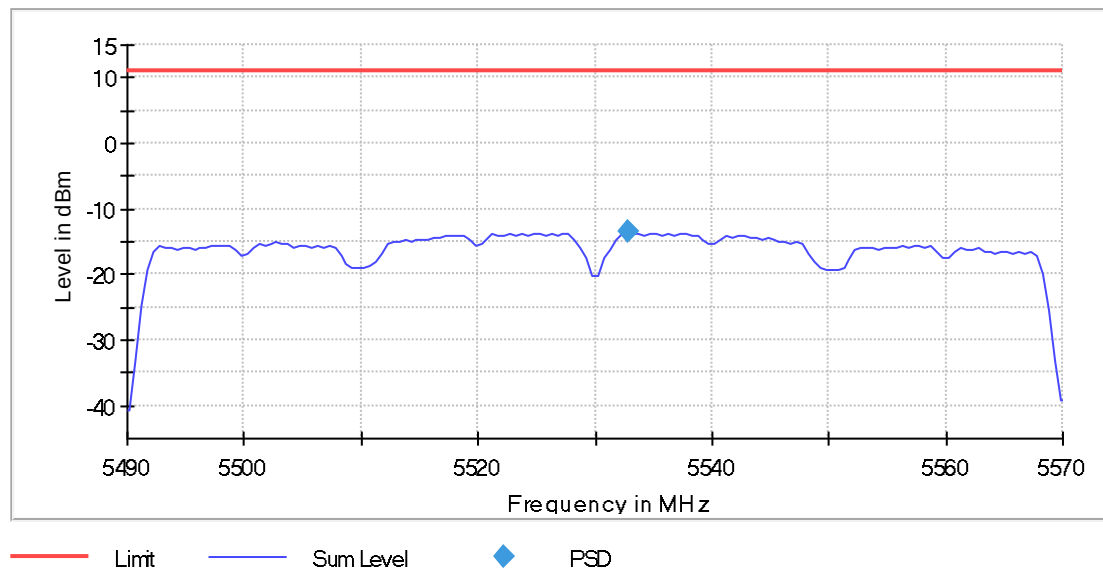
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5530.000000	5532.750000	-13.593	11.0	PASS

Ports

Port	Duty Cycle (%)
1	77.055



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.49000 GHz	5.49000 GHz
Stop Frequency	5.57000 GHz	5.57000 GHz
Span	80.000 MHz	80.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
Sweptime	3.200 s	3.200 s
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5530 MHz; 20.000 dBm; 80 MHz)

Customized settings.

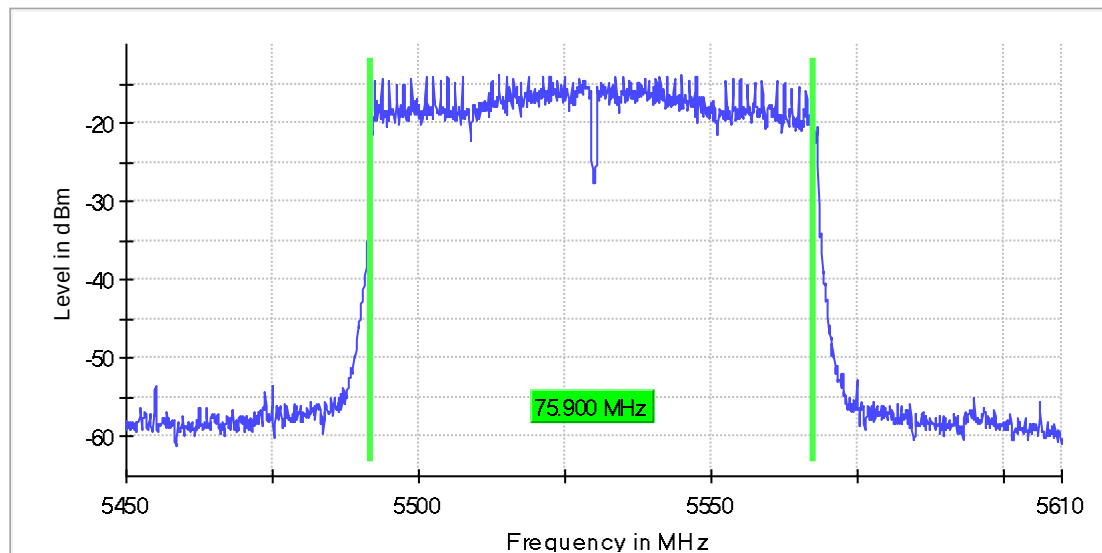
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5530.000000	75.900000	---	---	5491.750000	5567.650000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5530.000000	-13.9	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.45000 GHz	5.45000 GHz
Stop Frequency	5.61000 GHz	5.61000 GHz
Span	160.000 MHz	160.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
SweepTime	360.278 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	41 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.24 dB	0.30 dB

Occupied Channel Bandwidth 99% (5530 MHz; 20.000 dBm; 80 MHz)

Customized settings.

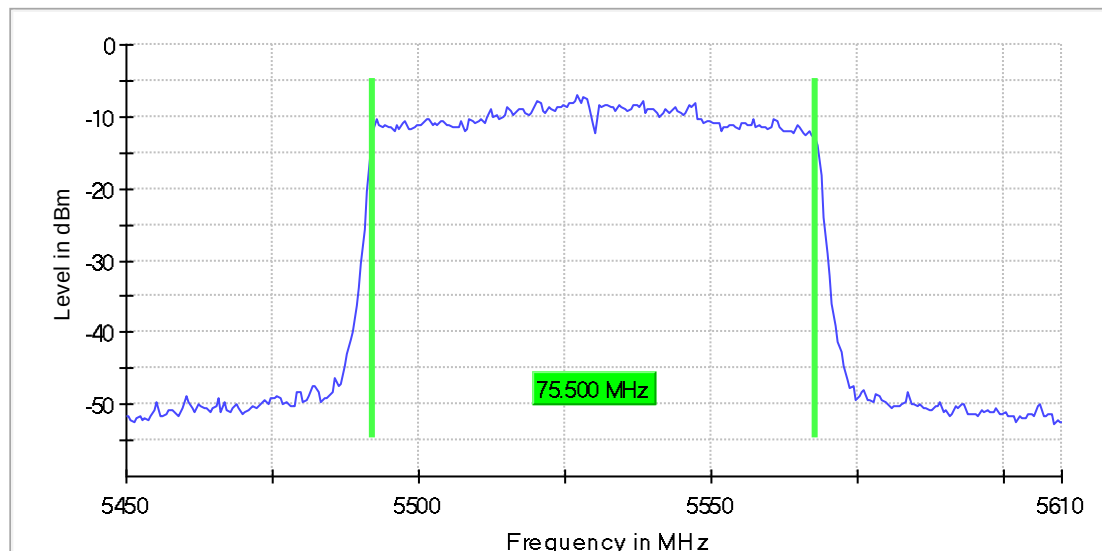
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5530.000000	75.500000	---	---	5492.250000	5567.750000

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

DUT Frequency (MHz)	Result
5530.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.45000 GHz	5.45000 GHz
Stop Frequency	5.61000 GHz	5.61000 GHz
Span	160.000 MHz	160.000 MHz
RBW	500.000 kHz	<= 800.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
Sweptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	34 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.01 dB	0.30 dB
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Band Edge low (5530 MHz; 20.000 dBm; 80 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

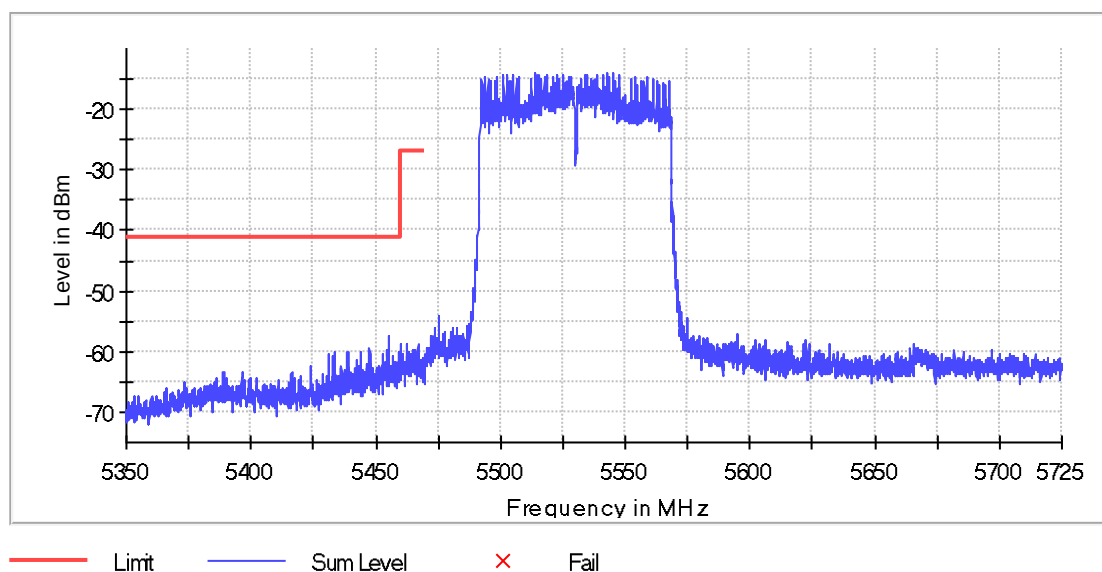
DUT Frequency (MHz)	Result
5530.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5513.775000	-14.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5455.025000	-57.5	16.3	-41.2	PASS
5454.975000	-57.6	16.4	-41.2	PASS
5454.925000	-58.8	17.6	-41.2	PASS
5455.075000	-59.2	18.0	-41.2	PASS
5447.525000	-59.3	18.1	-41.2	PASS
5447.475000	-59.4	18.1	-41.2	PASS
5454.725000	-59.7	18.4	-41.2	PASS
5438.725000	-60.0	18.8	-41.2	PASS
5438.775000	-60.0	18.8	-41.2	PASS
5443.775000	-60.2	19.0	-41.2	PASS
5433.775000	-60.2	19.0	-41.2	PASS
5459.325000	-60.2	19.0	-41.2	PASS
5454.675000	-60.3	19.0	-41.2	PASS
5443.725000	-60.3	19.1	-41.2	PASS
5447.575000	-60.5	19.2	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.47000 GHz	5.47000 GHz
Stop Frequency	5.72500 GHz	5.72500 GHz
Span	255.000 MHz	255.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	5100	~ 5100
SweepTime	569.531 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	3.57 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.35000 GHz	5.35000 GHz
Stop Frequency	5.47000 GHz	5.47000 GHz
Span	120.000 MHz	120.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2400	~ 2400
SweepTime	265.781 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 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
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

Emission Bandwidth 26 dB (5610 MHz; 20.000 dBm; 80 MHz)

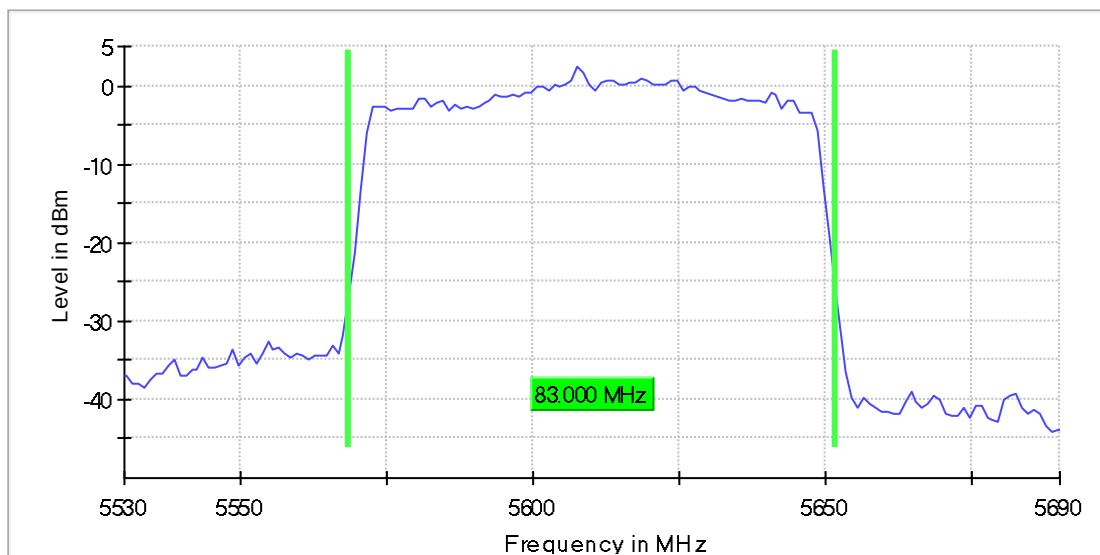
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

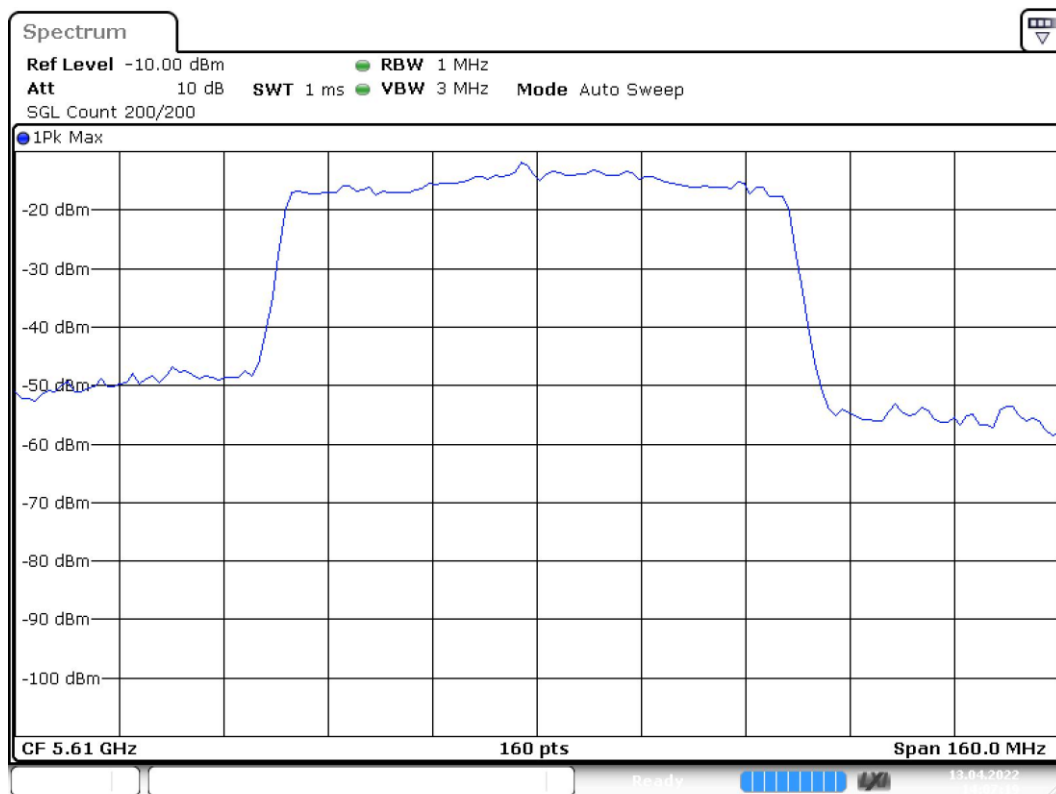
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5610.000000	83.000000	---	---	5568.500000	5651.500000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5610.000000	2.5	PASS



Bandwidth



Date: 13.APR.2022 14:07:20

Measurement

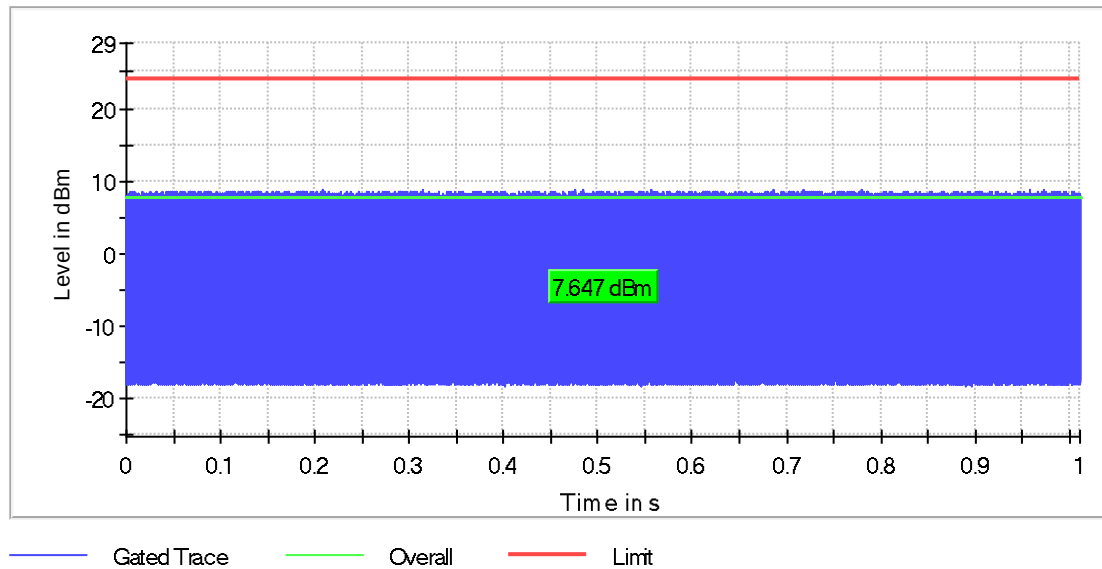
Setting	Instrument Value	Target Value
Start Frequency	5.53000 GHz	5.53000 GHz
Stop Frequency	5.69000 GHz	5.69000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	30 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.05 dB	0.30 dB

RF output power (5610 MHz; 20.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5610.000000	7.6	24.0	7.6	99.940	PASS



Power Spectral Density (5610 MHz; 20.000 dBm; 80 MHz)

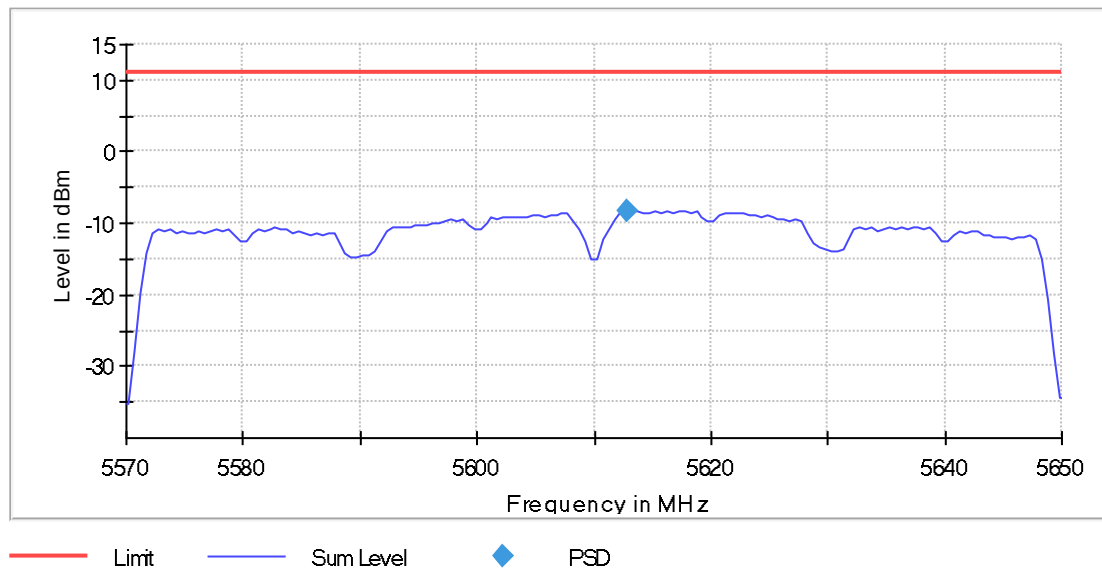
Test according to FCC title 47 part 15 §15.407(a),

Result

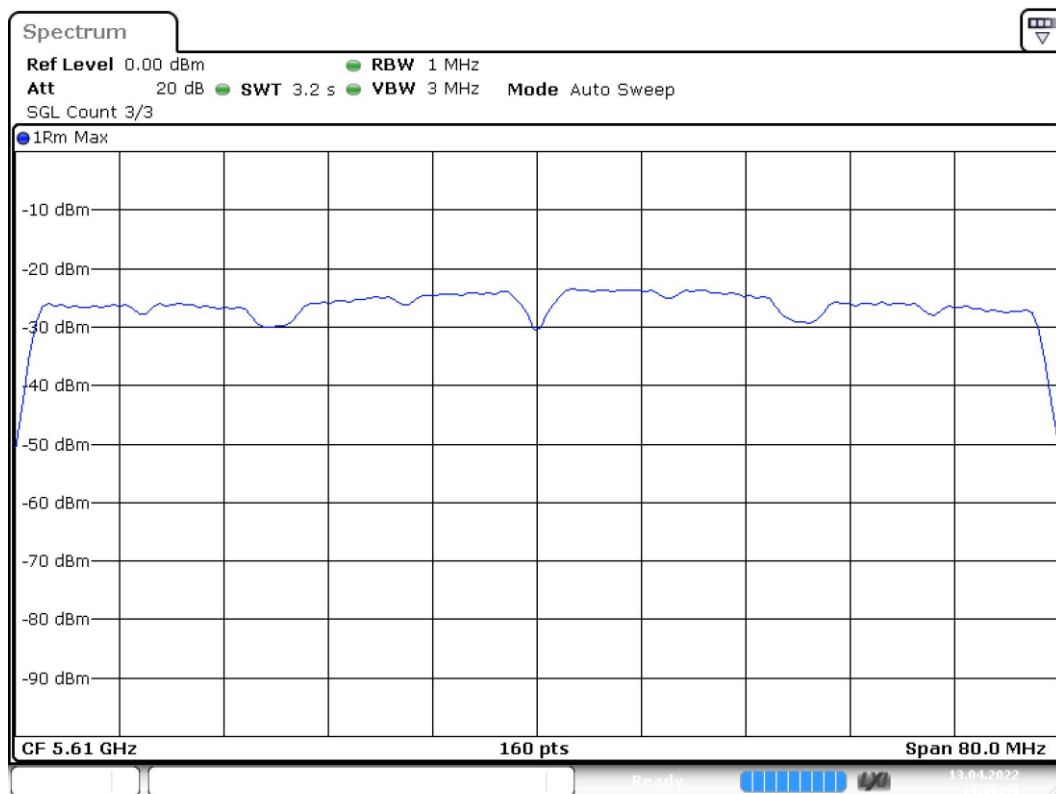
DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5610.000000	5612.750000	-8.207	11.0	PASS

Ports

Port	Duty Cycle (%)
1	76.932



PSD Connector 1



Date: 13.APR.2022 14:08:40

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.57000 GHz	5.57000 GHz
Stop Frequency	5.65000 GHz	5.65000 GHz
Span	80.000 MHz	80.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	3.200 s	3.200 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	4 / max. 15	max. 15
Stable	3 / 3	3
Max Stable Difference	0.01 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5610 MHz; 20.000 dBm; 80 MHz)

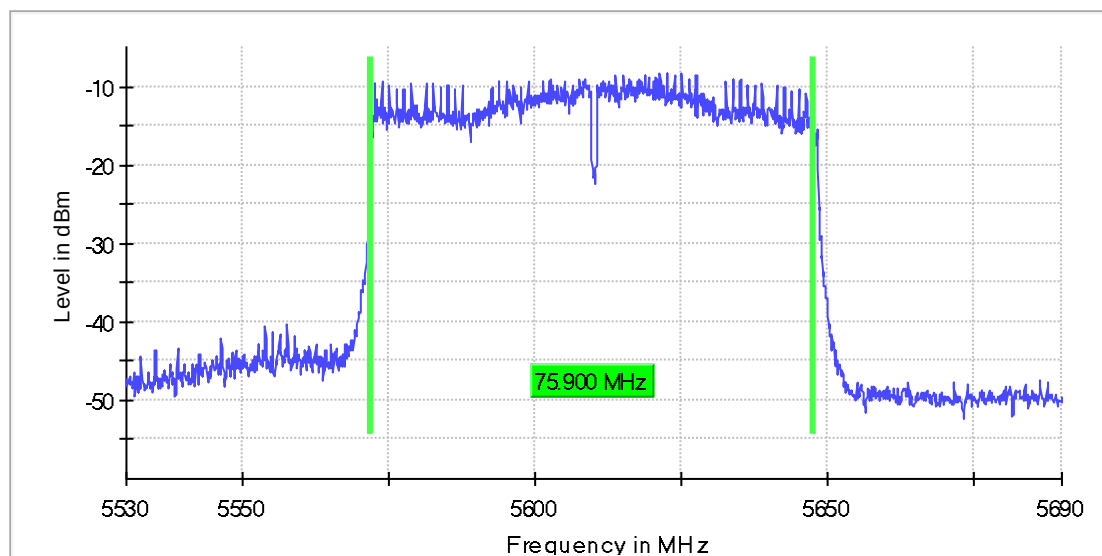
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

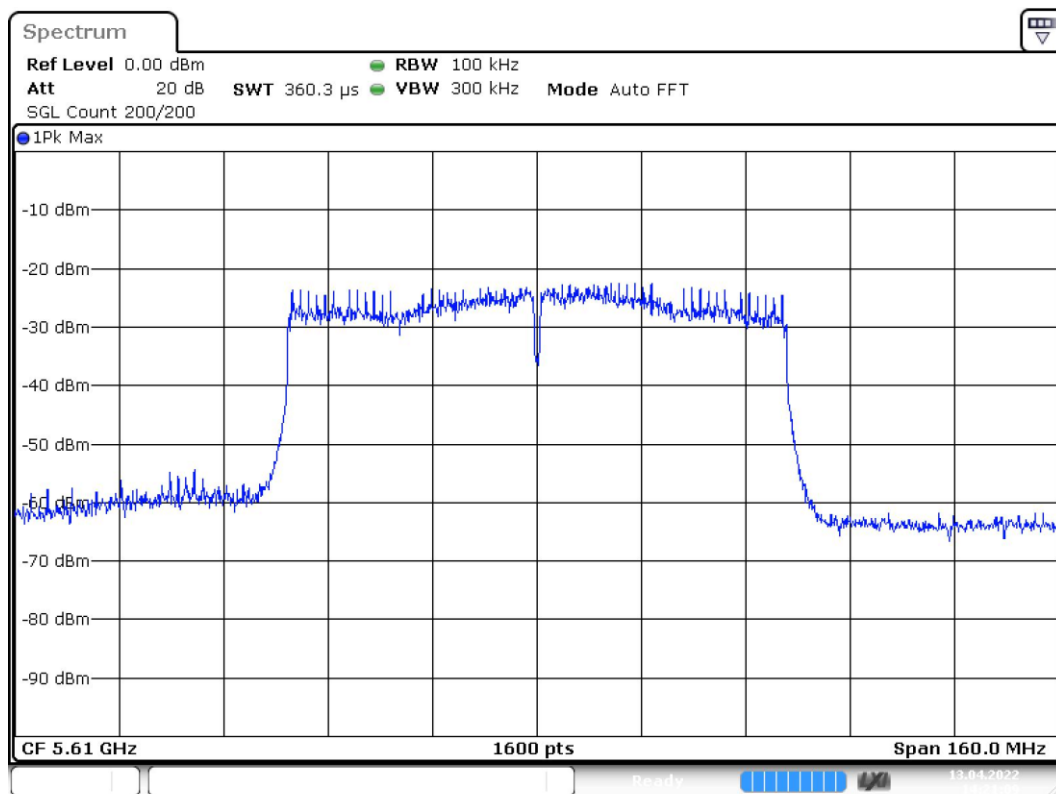
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5610.000000	75.900000	---	---	5571.750000	5647.650000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5610.000000	-8.3	PASS



Bandwidth



Date: 13.APR.2022 14:21:09

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.53000 GHz	5.53000 GHz
Stop Frequency	5.69000 GHz	5.69000 GHz
Span	160.000 MHz	160.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
SweepTime	360.278 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	109 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.21 dB	0.30 dB

Occupied Channel Bandwidth 99% (5610 MHz; 20.000 dBm; 80 MHz)

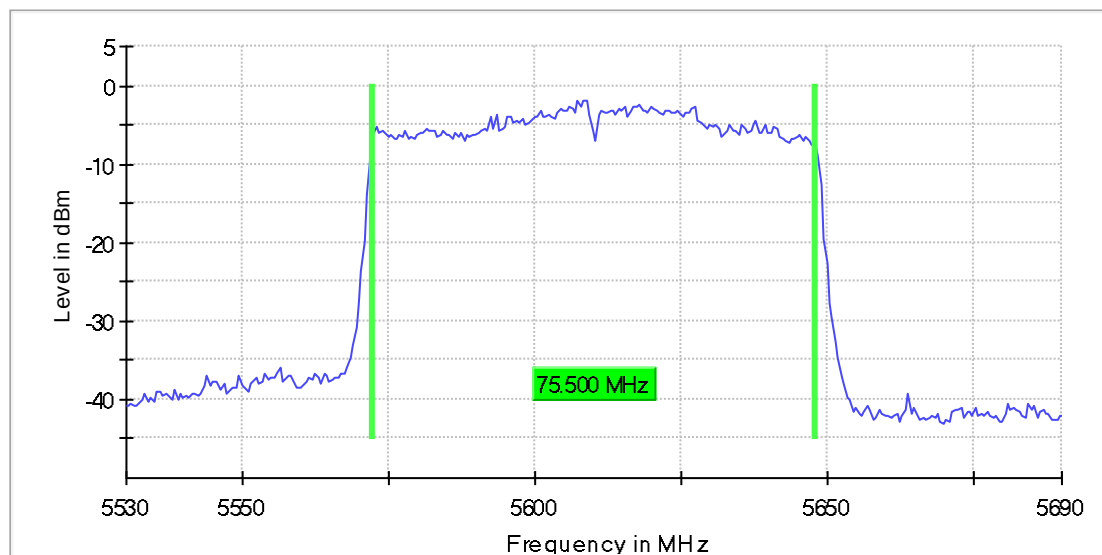
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

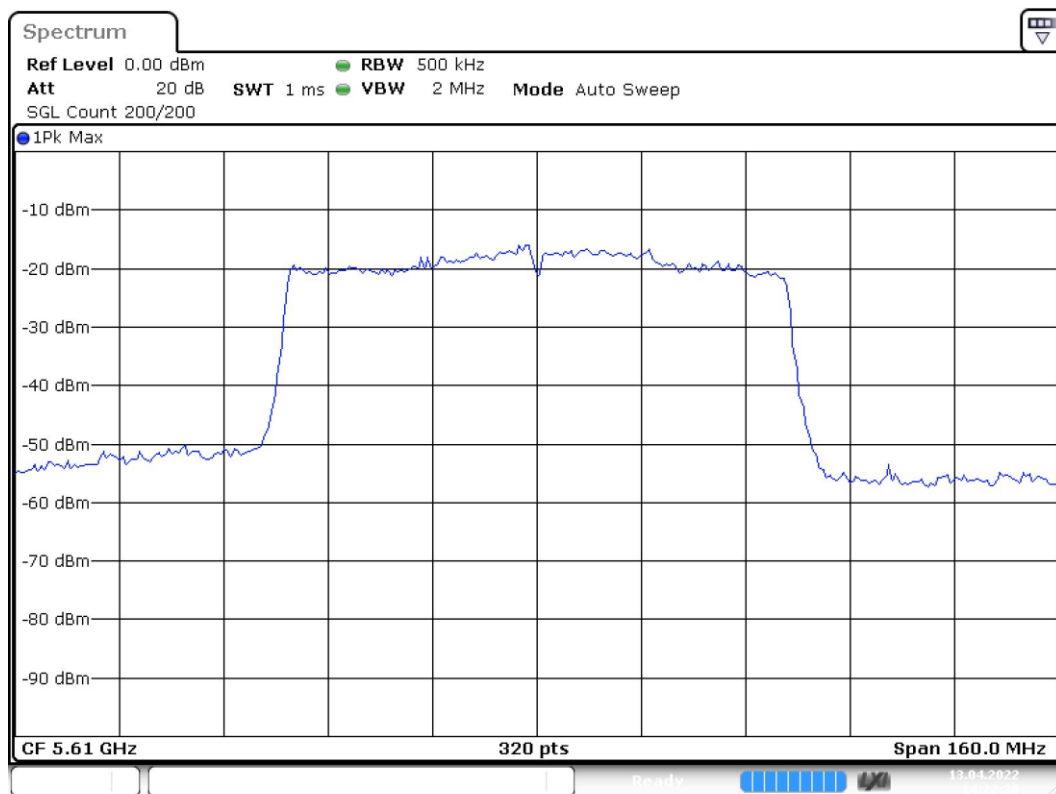
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5610.000000	75.500000	---	---	5572.250000	5647.750000

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

DUT Frequency (MHz)	Result
5610.000000	PASS



Bandwidth



Date: 13.APR.2022 14:22:21

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.53000 GHz	5.53000 GHz
Stop Frequency	5.69000 GHz	5.69000 GHz
Span	160.000 MHz	160.000 MHz
RBW	500.000 kHz	<= 800.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	49 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.19 dB	0.30 dB

Band Edge high (5610 MHz; 20.000 dBm; 80 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

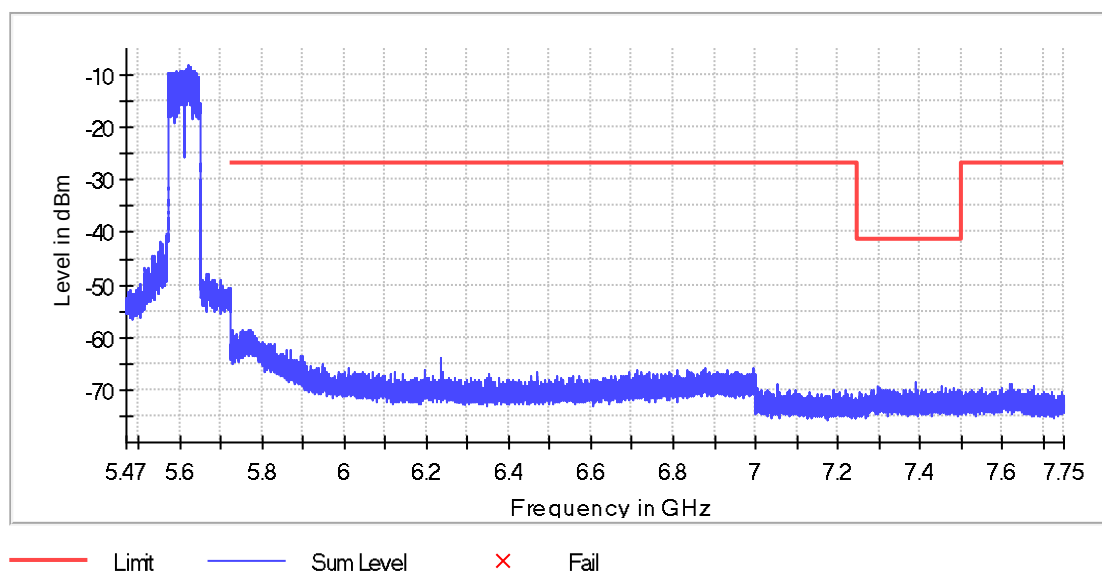
DUT Frequency (MHz)	Result
5610.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5622.525000	-8.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
7387.225000	-68.6	27.4	-41.2	PASS
7387.175000	-69.1	27.9	-41.2	PASS
7454.175000	-69.3	28.1	-41.2	PASS
7299.325000	-69.4	28.2	-41.2	PASS
7454.225000	-69.5	28.3	-41.2	PASS
7480.025000	-69.5	28.3	-41.2	PASS
7302.275000	-69.7	28.4	-41.2	PASS
7464.725000	-69.7	28.5	-41.2	PASS
7299.375000	-69.7	28.5	-41.2	PASS
7480.075000	-69.8	28.6	-41.2	PASS
7375.975000	-69.9	28.6	-41.2	PASS
7337.425000	-69.9	28.7	-41.2	PASS
7464.775000	-69.9	28.7	-41.2	PASS
7411.875000	-69.9	28.7	-41.2	PASS
7361.025000	-69.9	28.7	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.47000 GHz	5.47000 GHz
Stop Frequency	5.72500 GHz	5.72500 GHz
Span	255.000 MHz	255.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	5100	~ 5100
SweepTime	569.531 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	3.42 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	6.40000 GHz	6.40000 GHz
Span	675.000 MHz	675.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	13500	~ 13500
SweepTime	13.500 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	2 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

FCC 15.407 2015

DUT Information

Frequencies

WLAN CH 42 (5210 MHz) WLAN CH 155 (5775 MHz)

Bandwidths

80 MHz (80 MHz)

Power

20.000 dBm (20 dBm)

Beamforming Gain

20.000 dBm (20 dBm) 0 dB

Gain Tables

20.000 dBm (20 dBm) Port 1: 0dBi;

DUT Settings

No. of transmission chains	1
DFS capability	Yes
DFS Mode	Master
Equipment Type	Portable
TPC	No

Hardware Setup: WMS Measurements\Hardware Setup

Spectrum Analyzer:

SA FSV 40 (SA FSV 40) @ VISA (ADR
TCPIP::192.168.48.149::INST0::INSTR), SN 1321.3008K39/101229,
FW 3.40

Vector Generator:

VG SMBV100A (VG SMBV100A) @ VISA (ADR
TCPIP::192.168.48.25::INST0::INSTR), SN 260451, FW 4.15.125.49

Generator:

SMB100A (SMB100A) @ VISA (ADR
TCPIP::192.168.48.30::INST0::INSTR), SN 178361, FW 3.20.390.24
/ Drv:Rev 2.21.0, 07/2016, CVI 2015

OSP:

OSP-B157W (OSP-B157W) @ VISA (ADR
TCPIP::192.168.48.157::INST0::INSTR), SN 1527.1144. /, FW
1.23.0.2

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5775.000	20.0	80.000000	PASS
RF output power	5775.000	20.0	80.000000	PASS
Power Spectral Density	5775.000	20.0	80.000000	PASS
Minimum Emission Bandwidth 6 dB	5775.000	20.0	80.000000	PASS
Occupied Channel Bandwidth 99%	5775.000	20.0	80.000000	PASS
Band Edge low	5775.000	20.0	80.000000	PASS
Band Edge high	5775.000	20.0	80.000000	PASS

Emission Bandwidth 26 dB (5775 MHz; 20.000 dBm; 80 MHz)

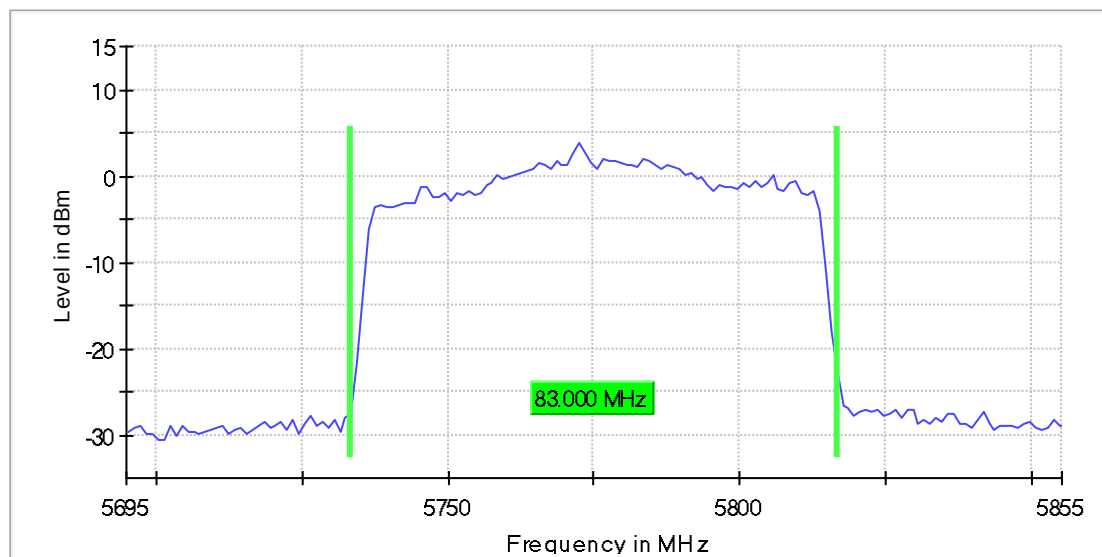
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

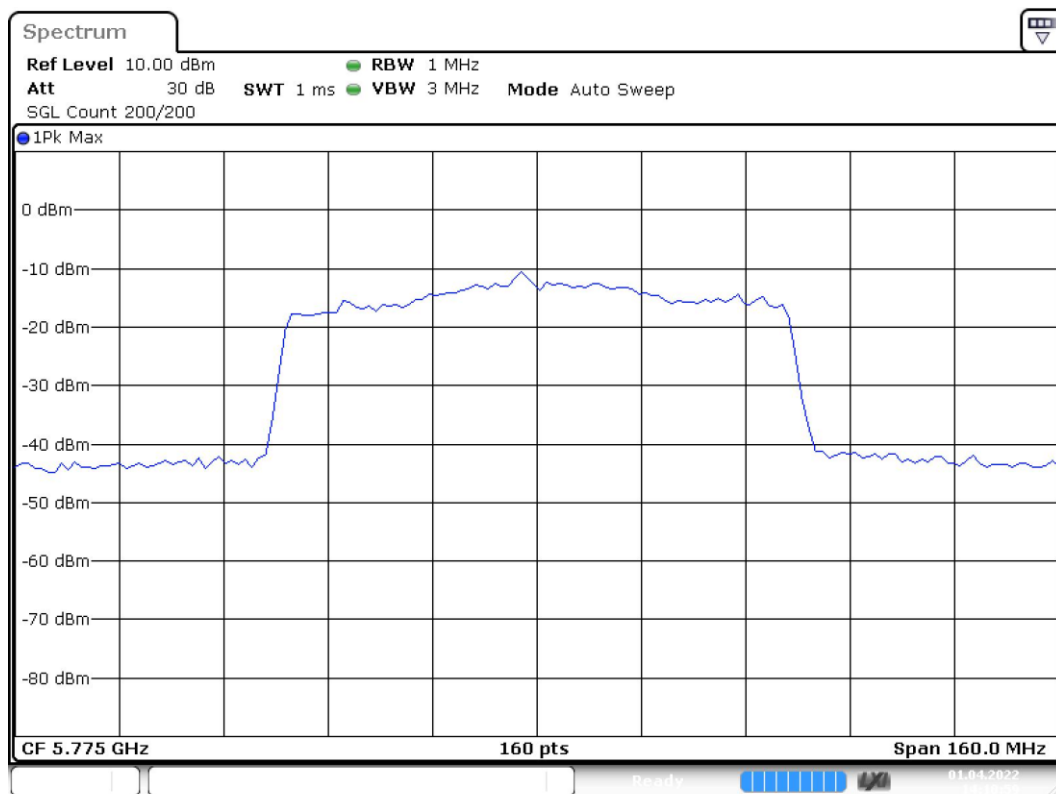
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	83.000000	---	---	5733.500000	5816.500000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5775.000000	3.7	PASS



Bandwidth



Date: 1.APR.2022 14:10:59

Measurement

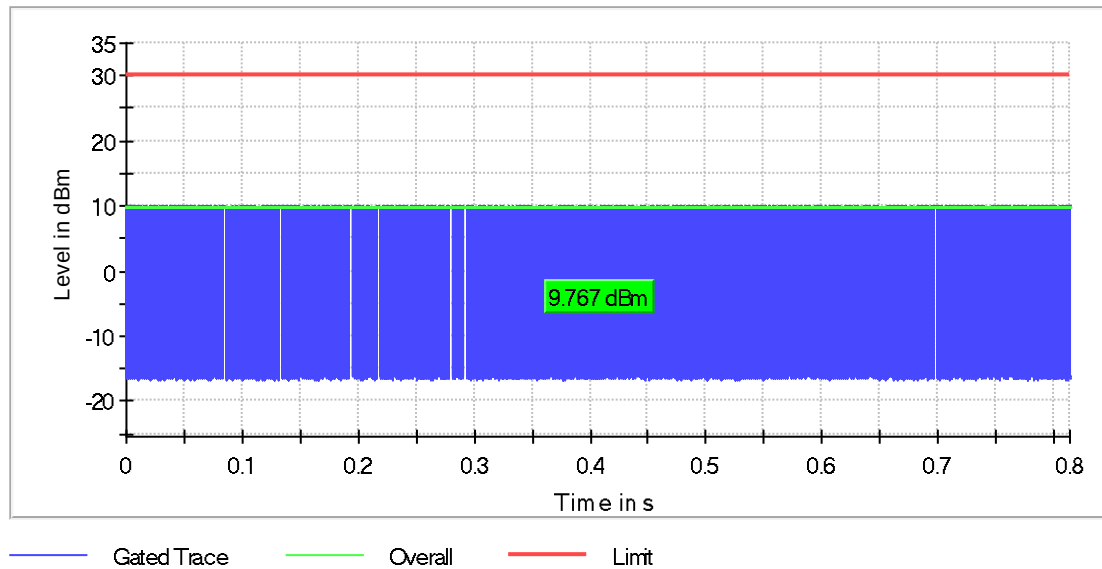
Setting	Instrument Value	Target Value
Start Frequency	5.69500 GHz	5.69500 GHz
Stop Frequency	5.85500 GHz	5.85500 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	28 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.03 dB	0.30 dB

RF output power (5775 MHz; 20.000 dBm; 80 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5775.000000	9.8	30.0	9.8	80.024	PASS



Power Spectral Density (5775 MHz; 20.000 dBm; 80 MHz)

Customized settings.

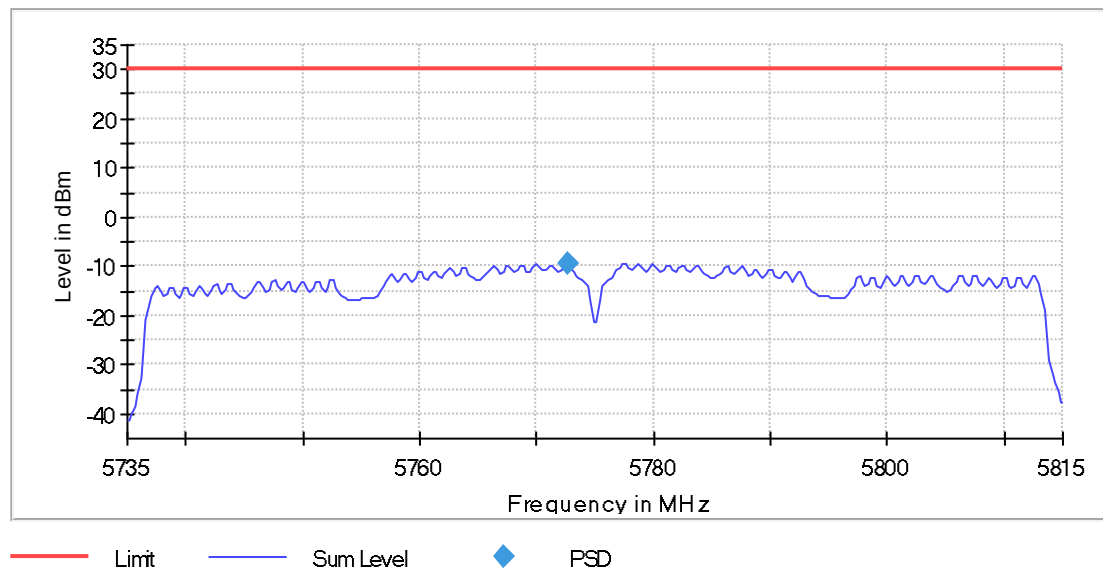
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5775.000000	5772.625000	-9.299	30.0	PASS

Ports

Port	Duty Cycle (%)
1	76.754



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.73500 GHz	5.73500 GHz
Stop Frequency	5.81500 GHz	5.81500 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	<= 500.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
Sweptime	6.400 s	6.400 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5775 MHz; 20.000 dBm; 80 MHz)

Customized settings.

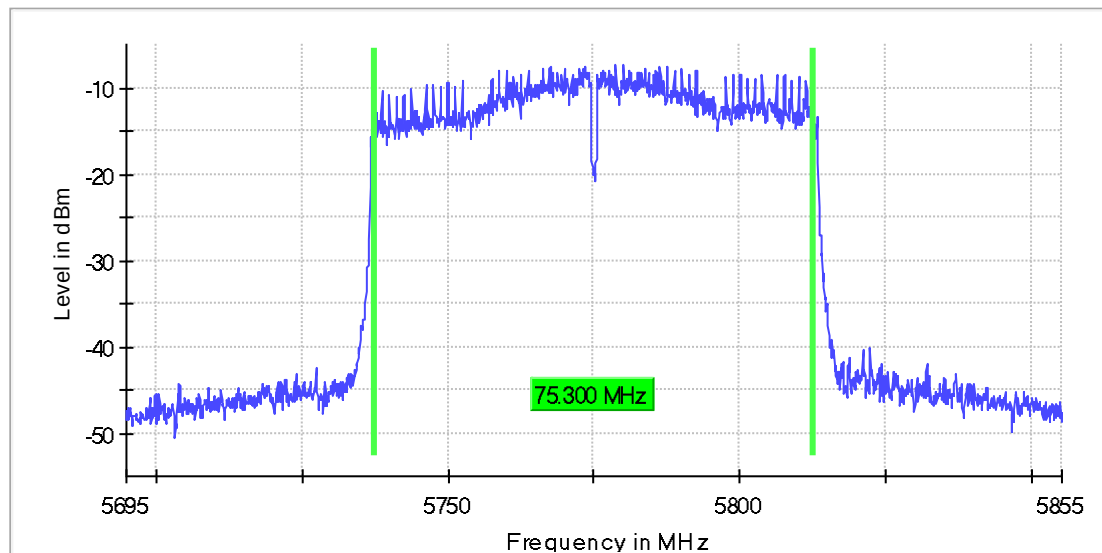
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	75.300000	0.500000	---	5737.350000	5812.650000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5775.000000	-7.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.69500 GHz	5.69500 GHz
Stop Frequency	5.85500 GHz	5.85500 GHz
Span	160.000 MHz	160.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	1600	~ 1600
SweepTime	360.278 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	33 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.20 dB	0.30 dB

Occupied Channel Bandwidth 99% (5775 MHz; 20.000 dBm; 80 MHz)

Customized settings.

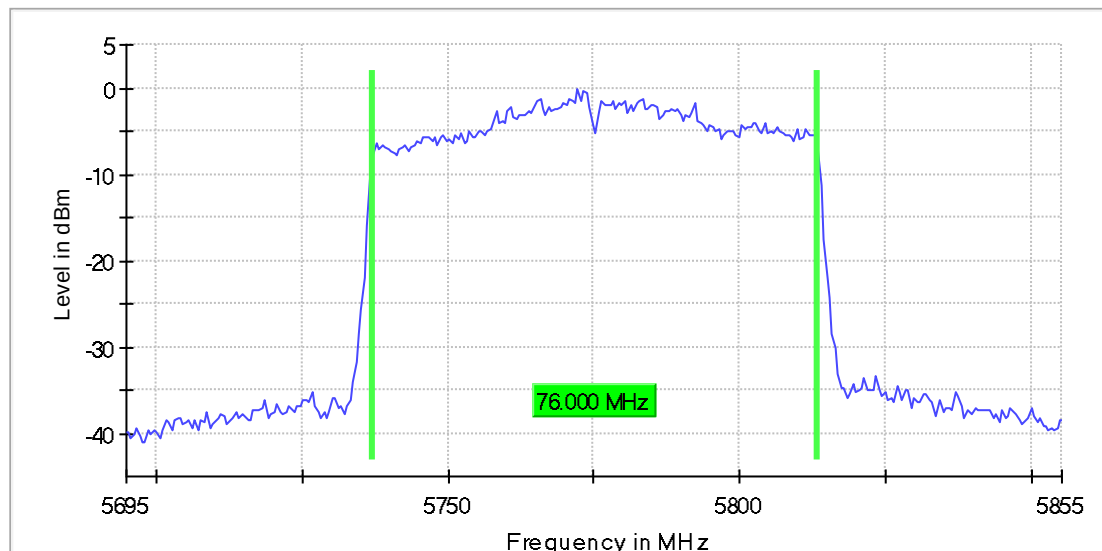
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5775.000000	76.000000	---	---	5737.250000	5813.250000

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

DUT Frequency (MHz)	Result
5775.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.69500 GHz	5.69500 GHz
Stop Frequency	5.85500 GHz	5.85500 GHz
Span	160.000 MHz	160.000 MHz
RBW	500.000 kHz	<= 800.000 kHz
VBW	2.000 MHz	>= 1.500 MHz
SweepPoints	320	~ 320
SweepTime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	31 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.15 dB	0.30 dB
------------------------------	----------------	----------------

Band Edge low (5775 MHz; 20.000 dBm; 80 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

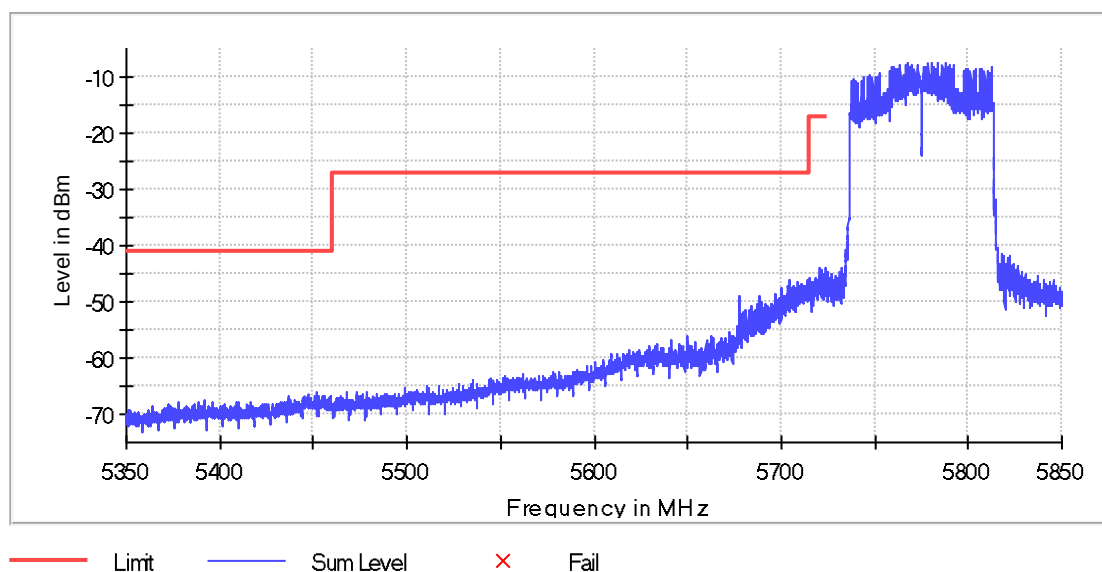
DUT Frequency (MHz)	Result
5775.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5778.725000	-7.5

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5714.075000	-45.9	18.9	-27.0	PASS
5714.975000	-46.0	19.0	-27.0	PASS
5714.725000	-46.0	19.0	-27.0	PASS
5714.125000	-46.1	19.1	-27.0	PASS
5714.675000	-46.1	19.1	-27.0	PASS
5704.075000	-46.2	19.2	-27.0	PASS
5704.125000	-46.3	19.3	-27.0	PASS
5714.325000	-46.4	19.4	-27.0	PASS
5708.425000	-46.4	19.4	-27.0	PASS
5714.275000	-46.5	19.5	-27.0	PASS
5708.475000	-46.6	19.6	-27.0	PASS
5711.225000	-46.6	19.6	-27.0	PASS
5711.275000	-46.6	19.6	-27.0	PASS
5713.725000	-46.9	19.9	-27.0	PASS
5710.275000	-47.0	20.0	-27.0	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	5.85000 GHz	5.85000 GHz
Span	125.000 MHz	125.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2500	~ 2500
SweepTime	284.766 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	3.39 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.35000 GHz	5.35000 GHz
Stop Frequency	5.72500 GHz	5.72500 GHz
Span	375.000 MHz	375.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	7500	~ 7500
SweepTime	835.313 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 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
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	33 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.29 dB	0.50 dB

Band Edge high (5775 MHz; 20.000 dBm; 80 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

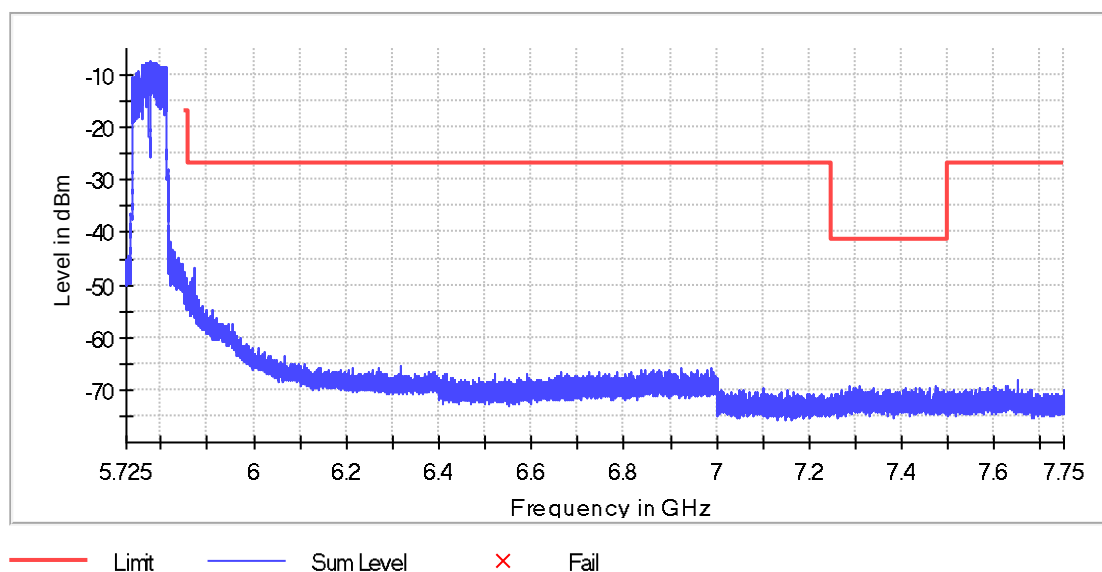
DUT Frequency (MHz)	Result
5775.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5778.725000	-7.5

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5870.325000	-46.6	19.6	-27.0	PASS
5870.275000	-46.7	19.7	-27.0	PASS
5870.375000	-47.8	20.8	-27.0	PASS
5867.225000	-48.7	21.7	-27.0	PASS
5870.225000	-48.8	21.8	-27.0	PASS
5867.175000	-48.8	21.8	-27.0	PASS
5869.425000	-49.0	22.0	-27.0	PASS
5866.175000	-49.2	22.2	-27.0	PASS
5869.475000	-49.3	22.3	-27.0	PASS
5866.225000	-49.3	22.3	-27.0	PASS
5867.275000	-49.3	22.3	-27.0	PASS
5865.275000	-49.4	22.4	-27.0	PASS
5866.925000	-49.6	22.6	-27.0	PASS
5865.325000	-49.6	22.6	-27.0	PASS
5866.975000	-49.7	22.7	-27.0	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	5.85000 GHz	5.85000 GHz
Span	125.000 MHz	125.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2500	~ 2500
SweepTime	284.766 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	4.33 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.85000 GHz	5.85000 GHz
Stop Frequency	6.40000 GHz	6.40000 GHz
Span	550.000 MHz	550.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	11000	~ 11000
SweepTime	11.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.34 dB	0.50 dB

FCC 15.407 2015

DUT Information

Frequencies

WLAN CH 36 (5180 MHz)
WLAN CH 149 (5745 MHz)

WLAN CH 40 (5200 MHz)
WLAN CH 157 (5785 MHz)

WLAN CH 48 (5240 MHz)
WLAN CH 165 (5825 MHz)

Bandwidths

20 MHz (20 MHz)

Power

20.000 dBm (20 dBm)

Beamforming Gain

20.000 dBm (20 dBm) 0 dB

Gain Tables

20.000 dBm (20 dBm) Port 1: 0dBi;

DUT Settings

No. of transmission chains	1
DFS capability	Yes
DFS Mode	Master
Equipment Type	Portable
TPC	No

Hardware Setup: WMS Measurements\TS8997

Spectrum Analyzer:

SA FSV 40 (SA FSV 40) @ VISA (ADR
TCPIP::192.168.48.149::INST0::INSTR), SN 1321.3008K39/101229,
FW 3.40

Vector Generator:

VG SMBV100A (VG SMBV100A) @ VISA (ADR
TCPIP::192.168.48.25::INST0::INSTR), SN 260451, FW 4.15.125.49

Generator:

SMB100A (SMB100A) @ VISA (ADR
TCPIP::192.168.48.30::INST0::INSTR), SN 178361, FW 3.20.390.24
/ Drv:Rev 2.21.0, 07/2016, CVI 2015

OSP:

OSP-B157W (OSP-B157W) @ VISA (ADR
TCPIP::192.168.48.157::INST0::INSTR), SN 1527.1144. /, FW
1.23.0.2

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5180.000	20.0	20.000000	PASS
RF output power	5180.000	20.0	20.000000	PASS
Power Spectral Density	5180.000	20.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5180.000	20.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5180.000	20.0	20.000000	PASS
Band Edge low	5180.000	20.0	20.000000	PASS
Emission Bandwidth 26 dB	5200.000	20.0	20.000000	PASS
RF output power	5200.000	20.0	20.000000	PASS
Power Spectral Density	5200.000	20.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5200.000	20.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5200.000	20.0	20.000000	PASS
Emission Bandwidth 26 dB	5240.000	20.0	20.000000	PASS
RF output power	5240.000	20.0	20.000000	PASS
Power Spectral Density	5240.000	20.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5240.000	20.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5240.000	20.0	20.000000	PASS
Band Edge high	5240.000	20.0	20.000000	PASS

Emission Bandwidth 26 dB (5180 MHz; 20.000 dBm; 20 MHz)

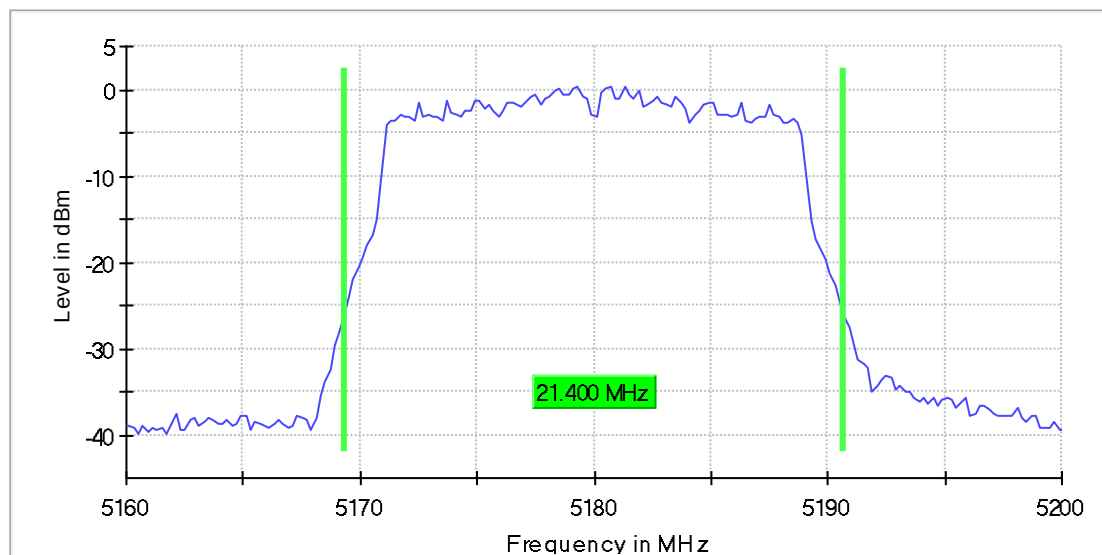
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

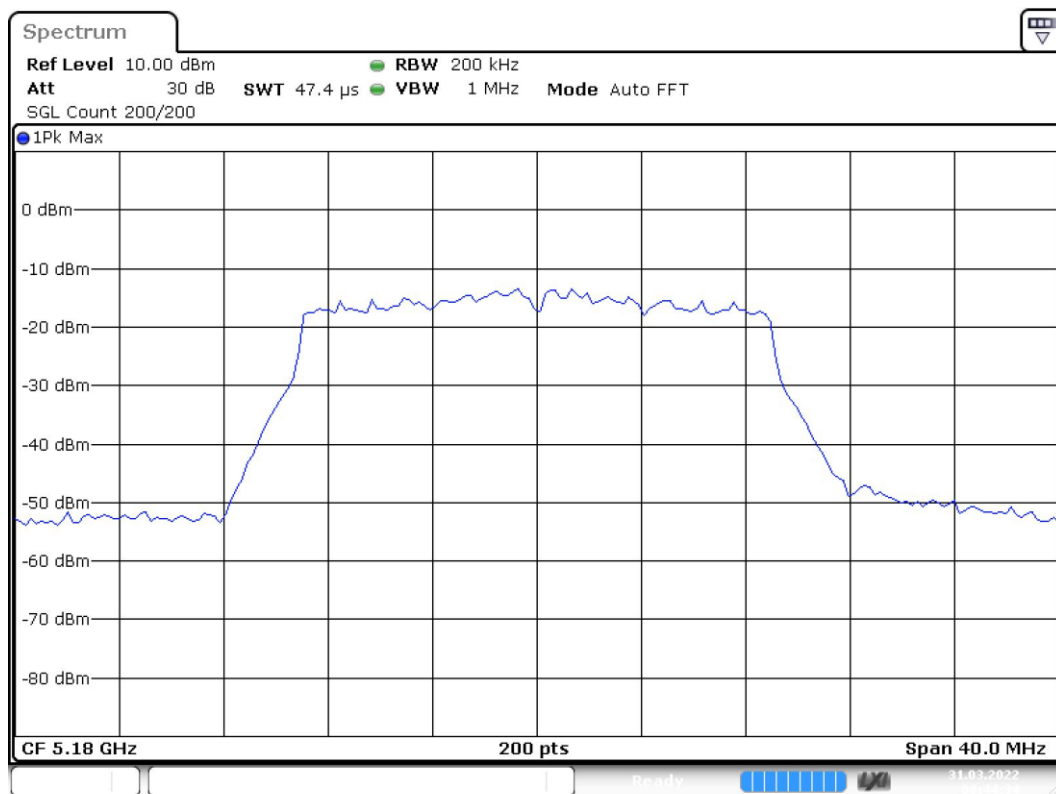
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5180.000000	21.400000	---	---	5169.300000	5190.700000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5180.000000	0.5	PASS



Bandwidth



Date: 31.MAR.2022 08:44:35

Measurement

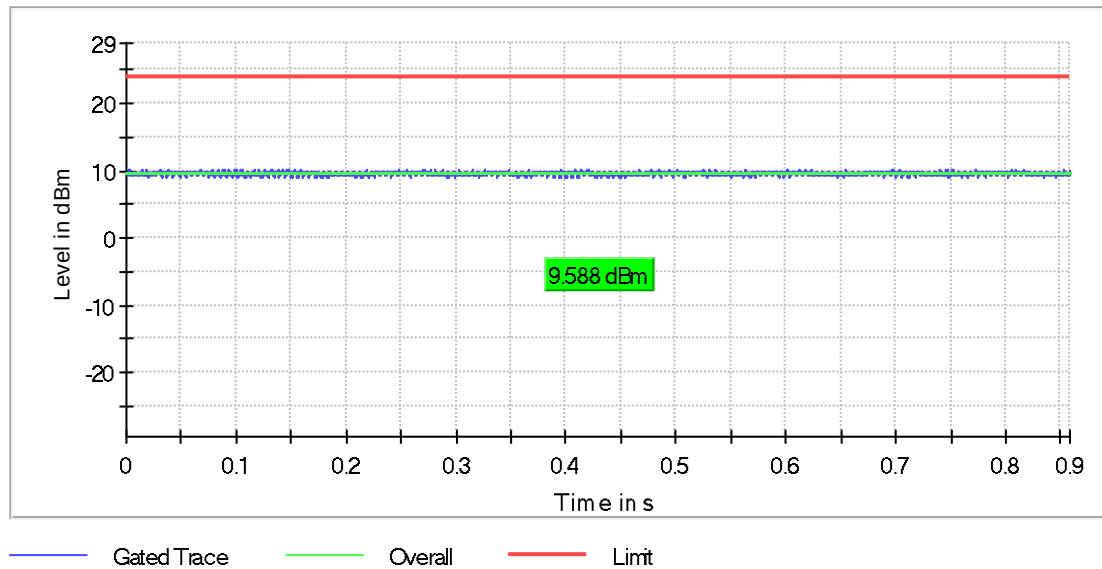
Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	43 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.21 dB	0.30 dB

RF output power (5180 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5180.000000	9.6	24.0	9.6	85.336	PASS



Power Spectral Density (5180 MHz; 20.000 dBm; 20 MHz)

Customized settings.

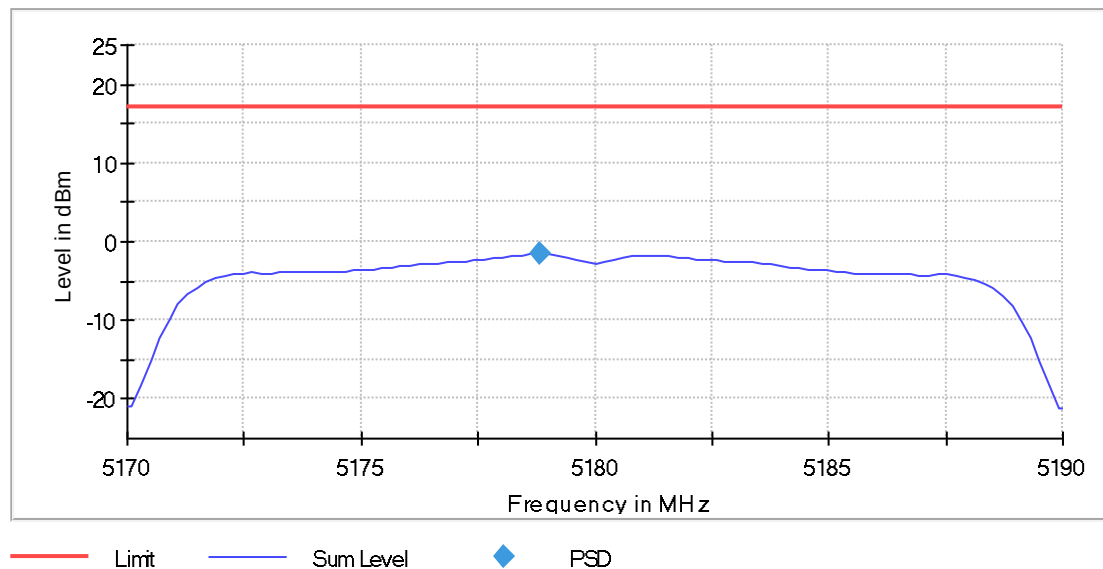
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5178.811881	-1.563	17.0	PASS

Ports

Port	Duty Cycle (%)
1	84.622



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
Sweptime	2.020 s	2.020 s
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	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	2 / max. 15	max. 15

Stable	1 / 1	1
Max Stable Difference	0.02 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5180 MHz; 20.000 dBm; 20 MHz)

Customized settings.

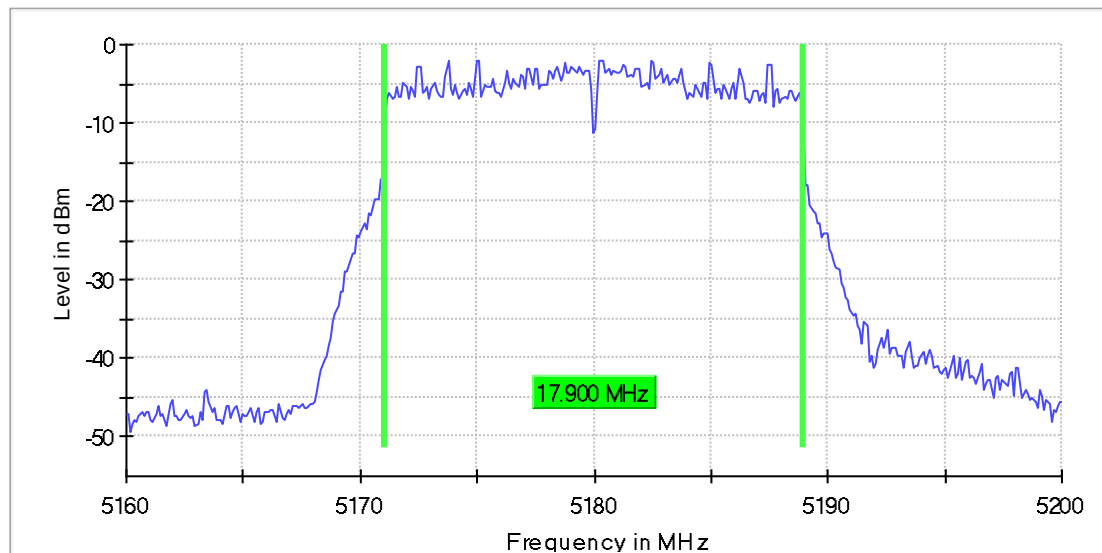
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5180.000000	17.900000	---	---	5171.050000	5188.950000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5180.000000	-2.1	PASS



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	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	94.810 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	16 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.27 dB	0.30 dB

Occupied Channel Bandwidth 99% (5180 MHz; 20.000 dBm; 20 MHz)

Customized settings.

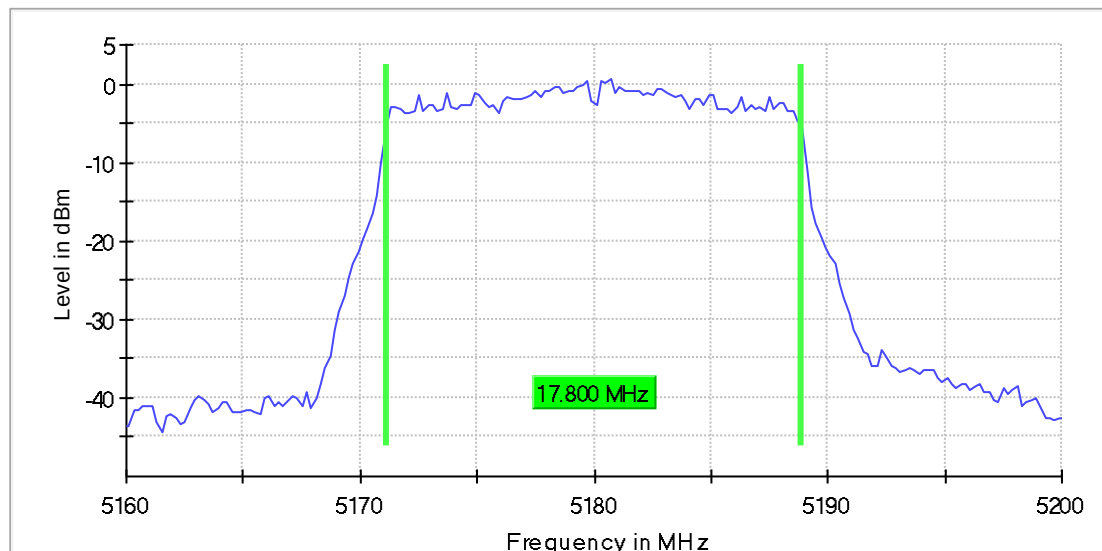
Test according to FCC title 47 part 15 §15.407(a),(e),

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	---	---	5171.100000	5188.900000

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

DUT Frequency (MHz)	Result
5180.000000	PASS



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	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	23 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.24 dB	0.30 dB
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Band Edge low (5180 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

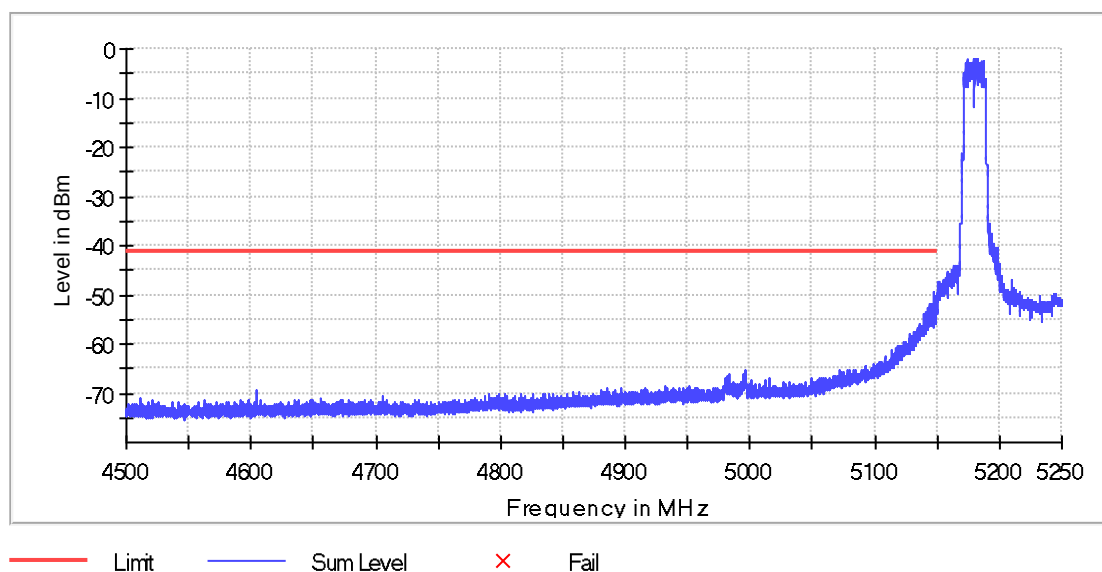
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5182.475000	-2.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5147.825000	-49.4	8.2	-41.2	PASS
5147.875000	-49.5	8.3	-41.2	PASS
5149.975000	-49.7	8.5	-41.2	PASS
5149.075000	-50.0	8.8	-41.2	PASS
5149.125000	-50.1	8.9	-41.2	PASS
5149.925000	-50.2	8.9	-41.2	PASS
5147.925000	-50.4	9.1	-41.2	PASS
5149.025000	-50.6	9.4	-41.2	PASS
5149.175000	-50.9	9.7	-41.2	PASS
5148.725000	-51.0	9.7	-41.2	PASS
5148.075000	-51.1	9.9	-41.2	PASS
5148.125000	-51.1	9.9	-41.2	PASS
5148.775000	-51.4	10.2	-41.2	PASS
5148.175000	-51.5	10.3	-41.2	PASS
5148.675000	-51.5	10.3	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.25000 GHz	5.25000 GHz
Span	100.000 MHz	100.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2000	~ 2000
SweepTime	227.813 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	72 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.11 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	4.50000 GHz	4.50000 GHz
Stop Frequency	5.15000 GHz	5.15000 GHz
Span	650.000 MHz	650.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	13000	~ 13000
SweepTime	13.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	40 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

Emission Bandwidth 26 dB (5200 MHz; 20.000 dBm; 20 MHz)

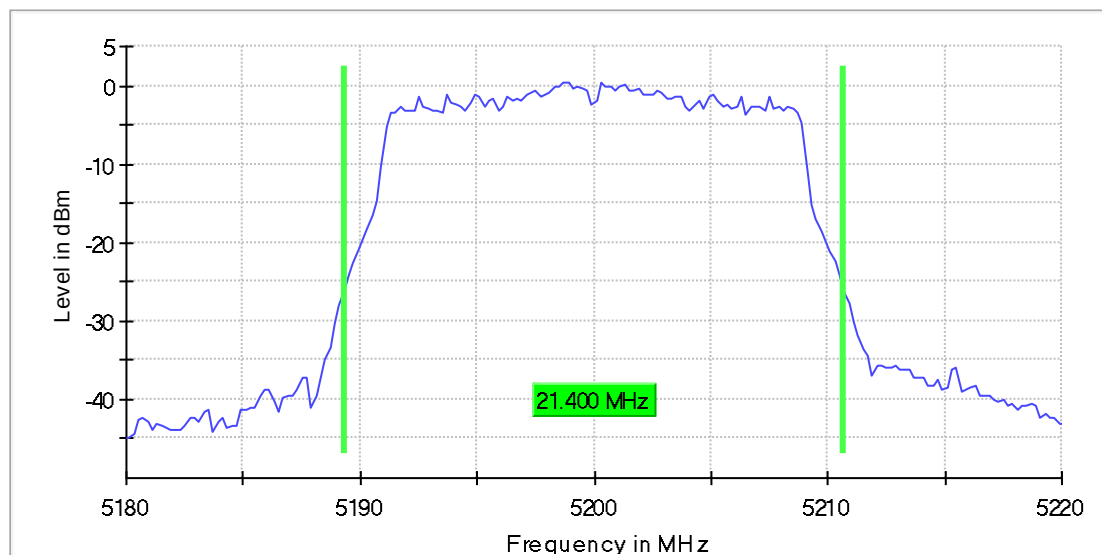
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

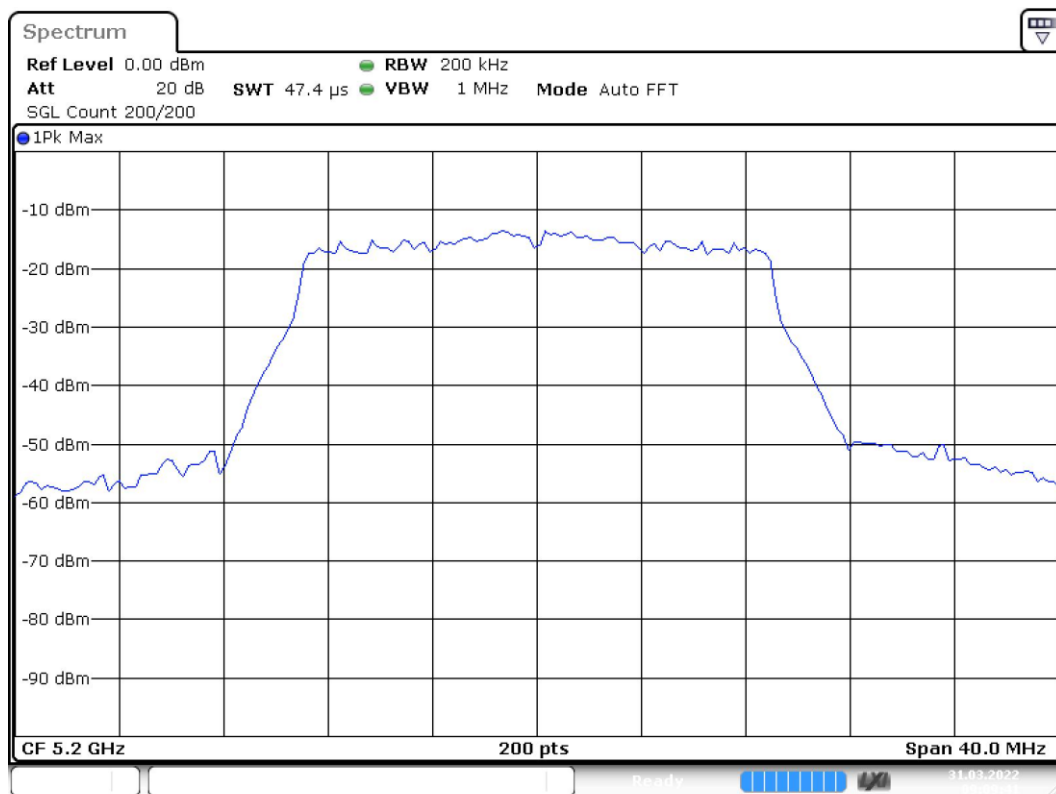
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5200.000000	21.400000	---	---	5189.300000	5210.700000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5200.000000	0.5	PASS



Bandwidth



Date: 31.MAR.2022 09:09:41

Measurement

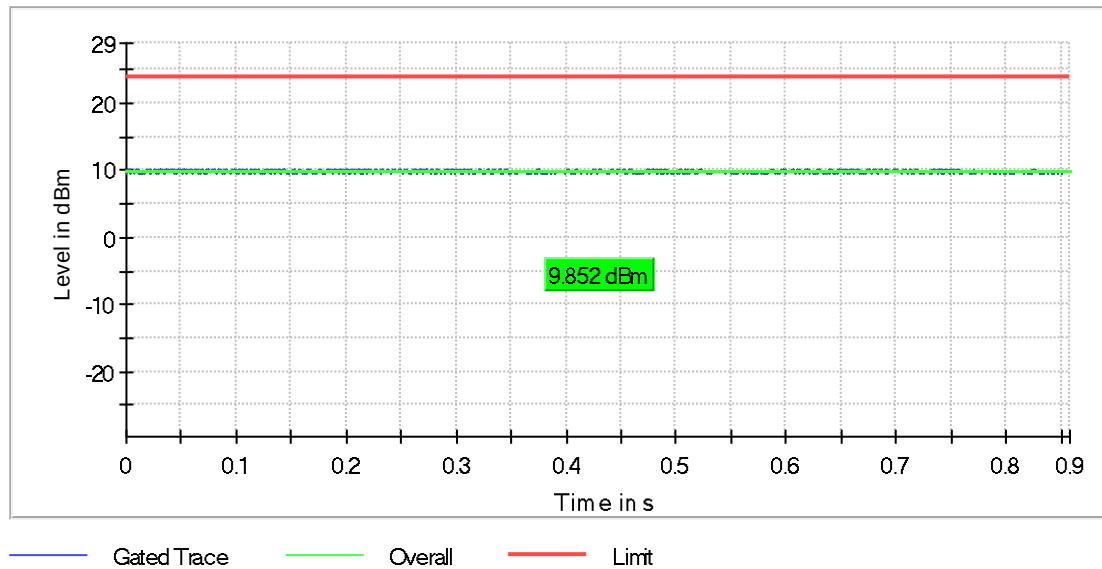
Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	49 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.18 dB	0.30 dB

RF output power (5200 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5200.000000	9.9	24.0	9.9	85.309	PASS



Power Spectral Density (5200 MHz; 20.000 dBm; 20 MHz)

Customized settings.

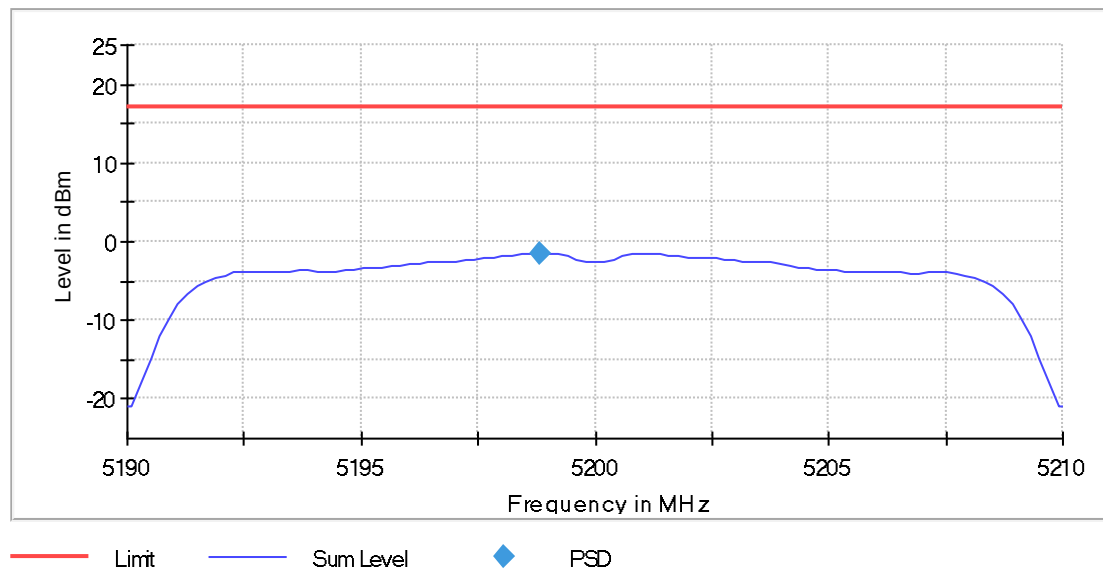
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5198.811881	-1.461	17.0	PASS

Ports

Port	Duty Cycle (%)
1	84.614



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.21000 GHz	5.21000 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
Sweptime	2.020 s	2.020 s
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	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	2 / max. 15	max. 15

Stable	1 / 1	1
Max Stable Difference	0.05 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5200 MHz; 20.000 dBm; 20 MHz)

Customized settings.

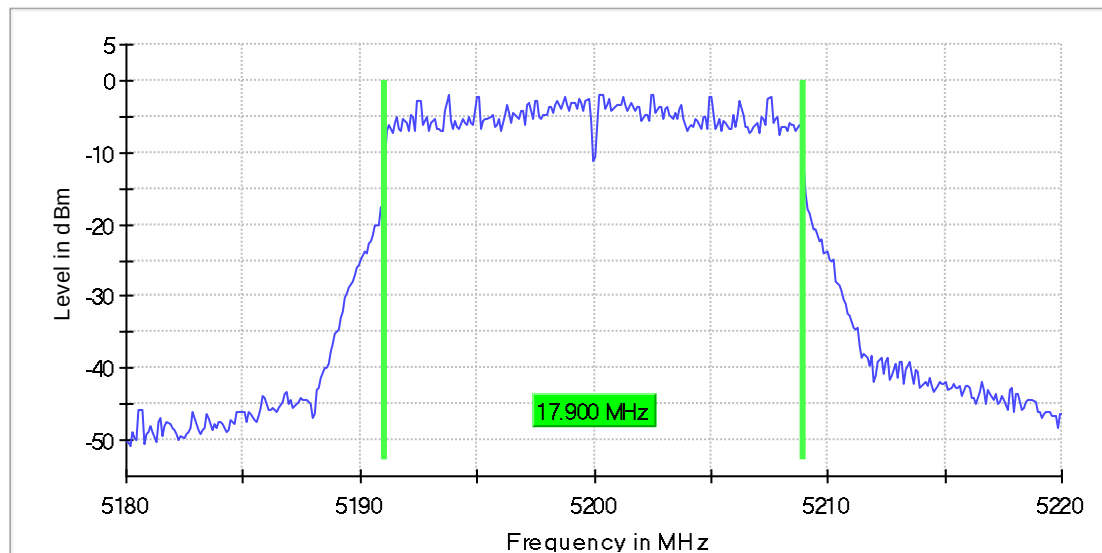
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5200.000000	17.900000	---	---	5191.050000	5208.950000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5200.000000	-2.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	94.810 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	15 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.06 dB	0.30 dB

Occupied Channel Bandwidth 99% (5200 MHz; 20.000 dBm; 20 MHz)

Customized settings.

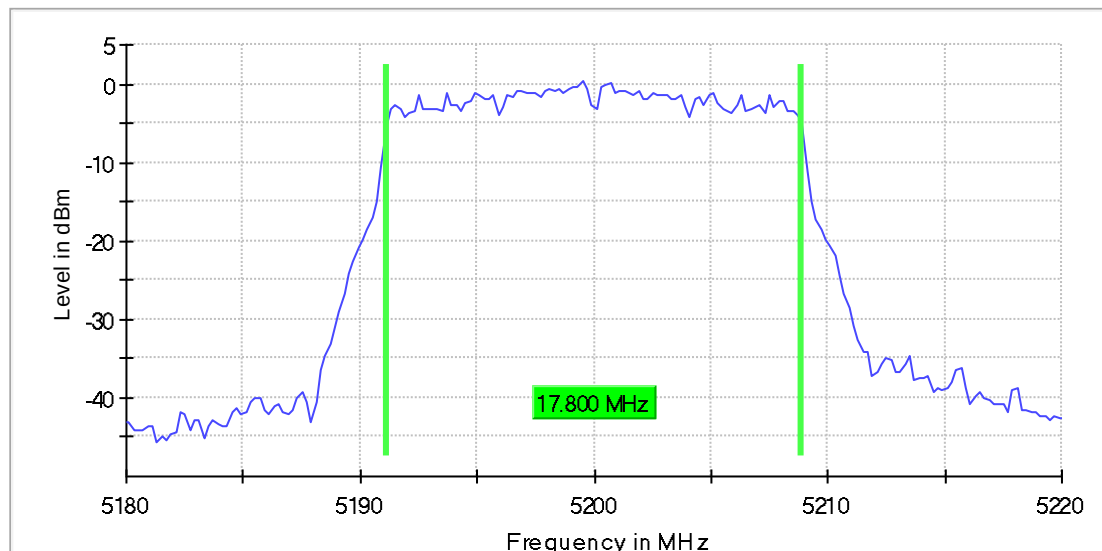
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5200.000000	17.800000	---	---	5191.100000	5208.900000

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

DUT Frequency (MHz)	Result
5200.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	<= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	20 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.29 dB	0.30 dB
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Emission Bandwidth 26 dB (5240 MHz; 20.000 dBm; 20 MHz)

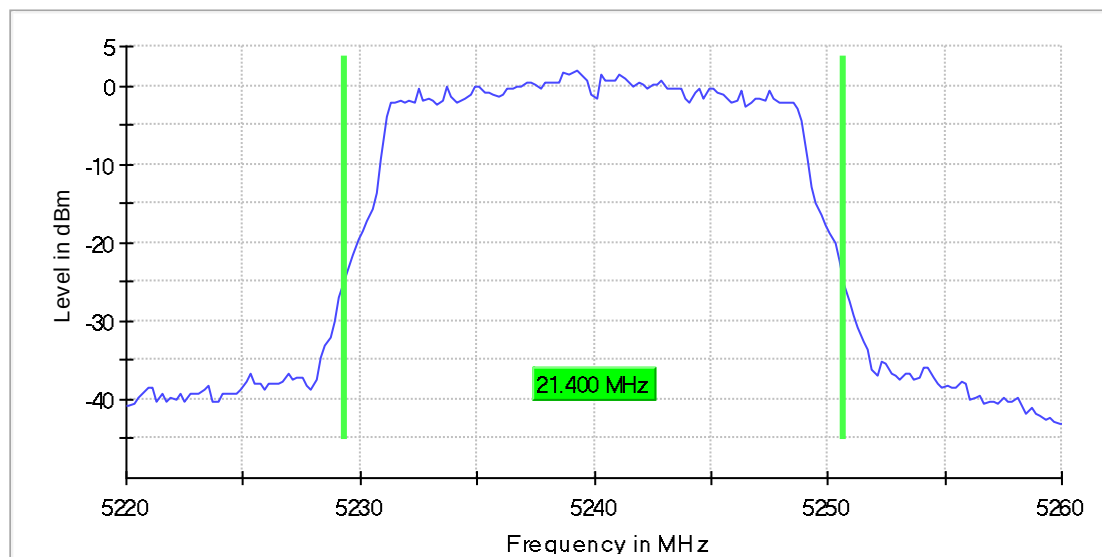
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

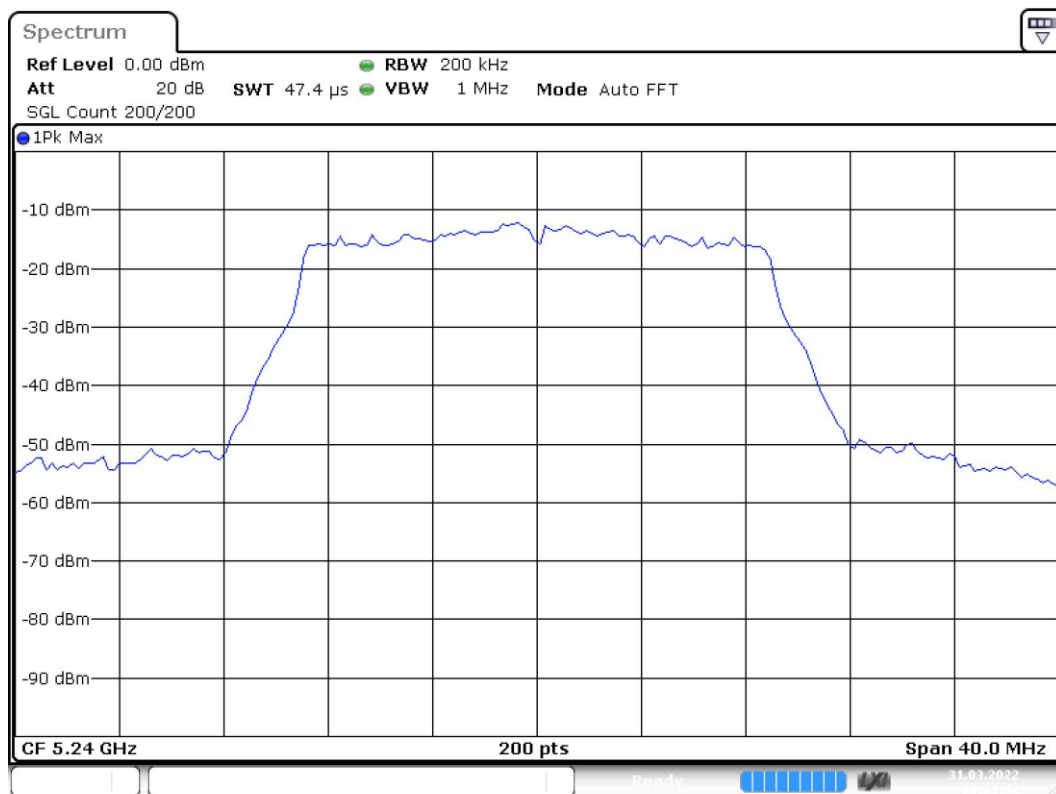
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	21.400000	---	---	5229.300000	5250.700000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5240.000000	1.8	PASS



Bandwidth



Date: 31.MAR.2022 09:21:42

Measurement

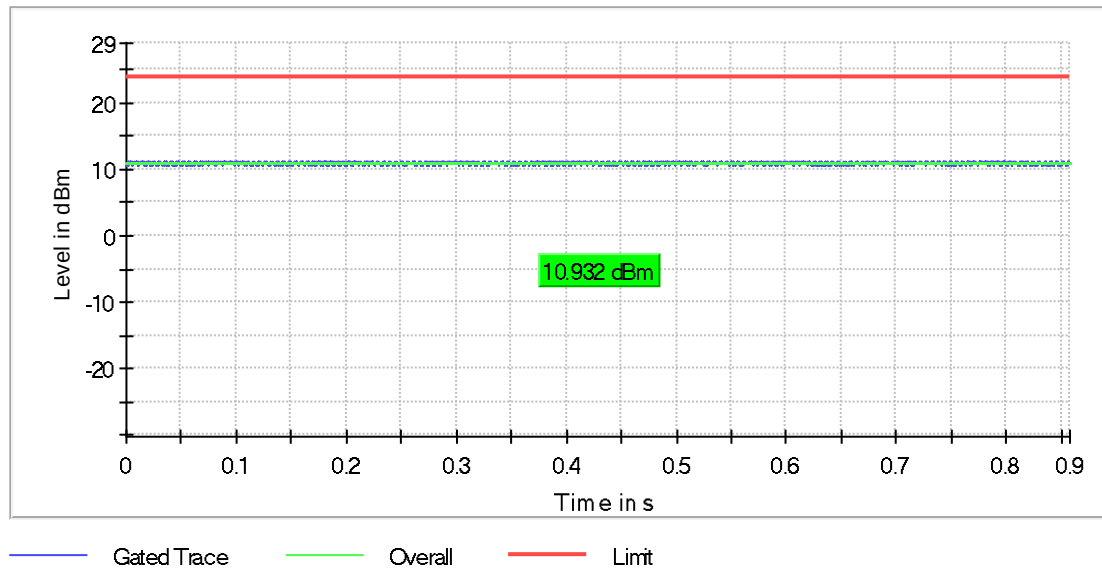
Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	57 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB

RF output power (5240 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5240.000000	10.9	24.0	10.9	85.283	PASS



Power Spectral Density (5240 MHz; 20.000 dBm; 20 MHz)

Customized settings.

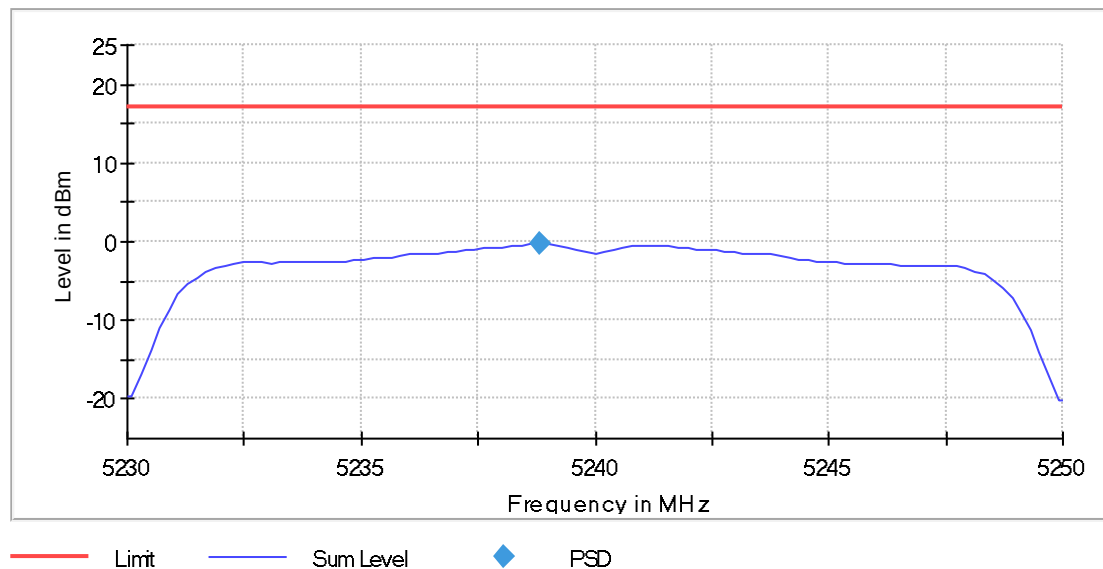
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5238.811881	-0.257	17.0	PASS

Ports

Port	Duty Cycle (%)
1	84.604



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.23000 GHz	5.23000 GHz
Stop Frequency	5.25000 GHz	5.25000 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
Sweptime	2.020 s	2.020 s
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	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	2 / max. 15	max. 15

Stable	1 / 1	1
Max Stable Difference	0.02 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5240 MHz; 20.000 dBm; 20 MHz)

Customized settings.

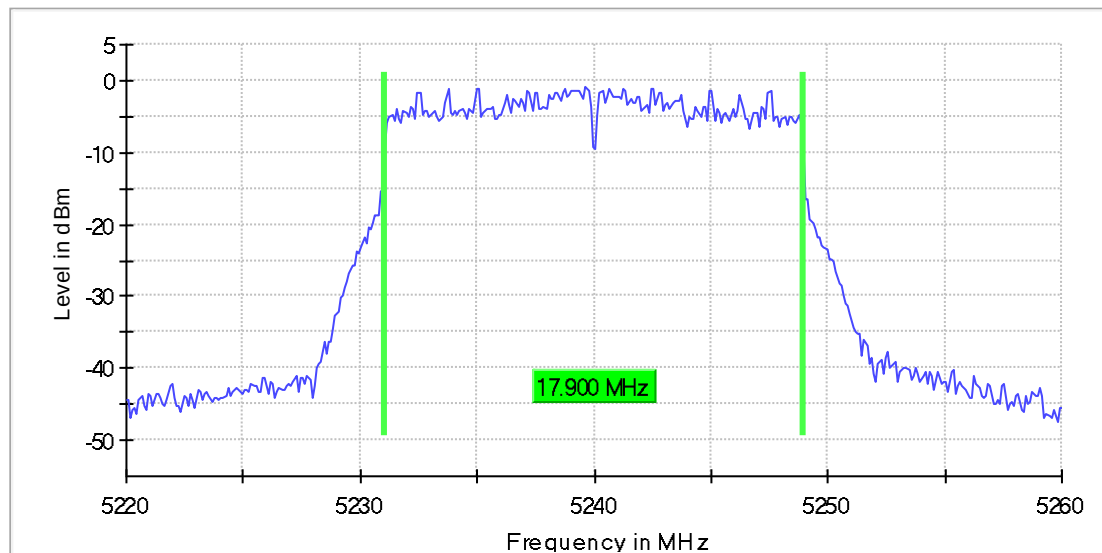
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5240.000000	17.900000	---	---	5231.050000	5248.950000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5240.000000	-0.9	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	94.810 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	25 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.11 dB	0.30 dB

Occupied Channel Bandwidth 99% (5240 MHz; 20.000 dBm; 20 MHz)

Customized settings.

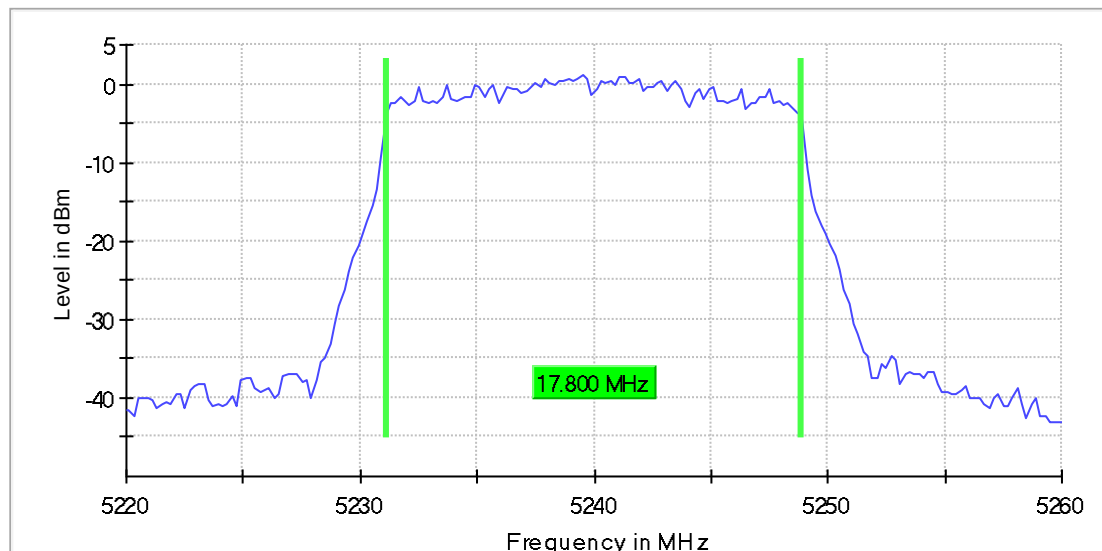
Test according to FCC title 47 part 15 §15.407(a),(e),

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	---	---	5231.100000	5248.900000

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

DUT Frequency (MHz)	Result
5240.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	<= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	16 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.10 dB	0.30 dB
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Band Edge high (5240 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

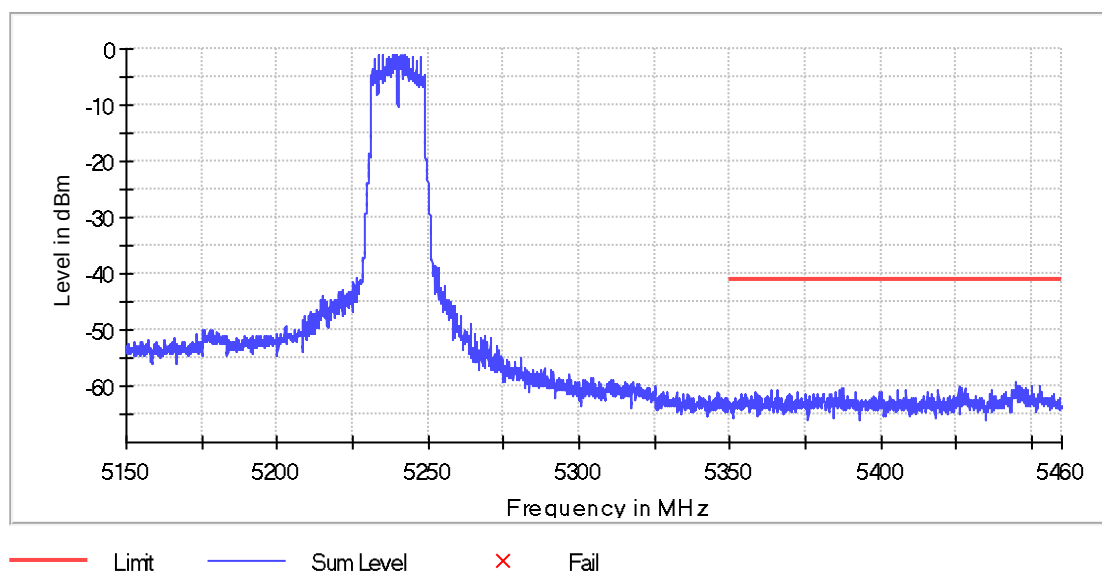
DUT Frequency (MHz)	Result
5240.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5233.725000	-1.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5444.575000	-59.2	18.0	-41.2	PASS
5444.525000	-59.6	18.3	-41.2	PASS
5444.625000	-59.8	18.6	-41.2	PASS
5450.075000	-59.9	18.6	-41.2	PASS
5445.925000	-60.0	18.8	-41.2	PASS
5445.875000	-60.0	18.8	-41.2	PASS
5452.525000	-60.1	18.8	-41.2	PASS
5425.825000	-60.1	18.9	-41.2	PASS
5445.525000	-60.1	18.9	-41.2	PASS
5452.475000	-60.3	19.0	-41.2	PASS
5387.275000	-60.3	19.0	-41.2	PASS
5450.025000	-60.3	19.1	-41.2	PASS
5447.975000	-60.3	19.1	-41.2	PASS
5425.875000	-60.3	19.1	-41.2	PASS
5450.125000	-60.4	19.1	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.25000 GHz	5.25000 GHz
Span	100.000 MHz	100.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2000	~ 2000
SweepTime	227.813 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	49 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.38 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.46000 GHz	5.46000 GHz
Span	210.000 MHz	210.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	4200	~ 4200
SweepTime	474.609 μ s	AUTO
Reference Level	-10.000 dBm	-20.000 dBm
Attenuation	10.000 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
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.00 dB	0.50 dB

FCC 15.407 2015

DUT Information

Frequencies

WLAN CH 36 (5180 MHz)	WLAN CH 40 (5200 MHz)	WLAN CH 48 (5240 MHz)
WLAN CH 149 (5745 MHz)	WLAN CH 157 (5785 MHz)	WLAN CH 165 (5825 MHz)
WLAN CH 52 (5260 MHz)	WLAN CH 56 (5280 MHz)	WLAN CH 64 (5320 MHz)
WLAN CH 100 (5500 MHz)	WLAN CH 120 (5600 MHz)	WLAN CH 140 (5700 MHz)
WLAN CH 116 (5580 MHz)		

Bandwidths

20 MHz (20 MHz)

Power

20.000 dBm (20 dBm)

Beamforming Gain

20.000 dBm (20 dBm) 0 dB

Gain Tables

20.000 dBm (20 dBm) Port 1: 0dBi;

DUT Settings

No. of transmission chains	1
DFS capability	Yes
DFS Mode	Master
Equipment Type	Portable
TPC	No

Hardware Setup: WMS Measurements\Hardware Setup

Spectrum Analyzer:	SA FSV 40 (SA FSV 40) @ VISA (ADR TCPIP::192.168.48.149::INST0::INSTR), SN 1321.3008K39/101229, FW 3.40
Vector Generator:	VG SMBV100A (VG SMBV100A) @ VISA (ADR TCPIP::192.168.48.25::INST0::INSTR), SN 260451, FW 4.15.125.49
Generator:	SMB100A (SMB100A) @ VISA (ADR TCPIP::192.168.48.30::INST0::INSTR), SN 178361, FW / Drv:Rev 2.21.0, 07/2016, CVI 2015
OSP:	OSP-B157W (OSP-B157W) @ VISA (ADR TCPIP::192.168.48.157::INST0::INSTR), SN 1527.1144. / , FW 1.23.0.2

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5260.000	20.0	20.000000	PASS
RF output power	5260.000	20.0	20.000000	PASS
Power Spectral Density	5260.000	20.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5260.000	20.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5260.000	20.0	20.000000	PASS
Band Edge low	5260.000	20.0	20.000000	PASS
Emission Bandwidth 26 dB	5280.000	20.0	20.000000	PASS
RF output power	5280.000	20.0	20.000000	PASS
Power Spectral Density	5280.000	20.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5280.000	20.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5280.000	20.0	20.000000	PASS
Emission Bandwidth 26 dB	5320.000	20.0	20.000000	PASS
RF output power	5320.000	20.0	20.000000	PASS
Power Spectral Density	5320.000	20.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5320.000	20.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5320.000	20.0	20.000000	PASS
Band Edge high	5320.000	20.0	20.000000	PASS

Emission Bandwidth 26 dB (5260 MHz; 20.000 dBm; 20 MHz)

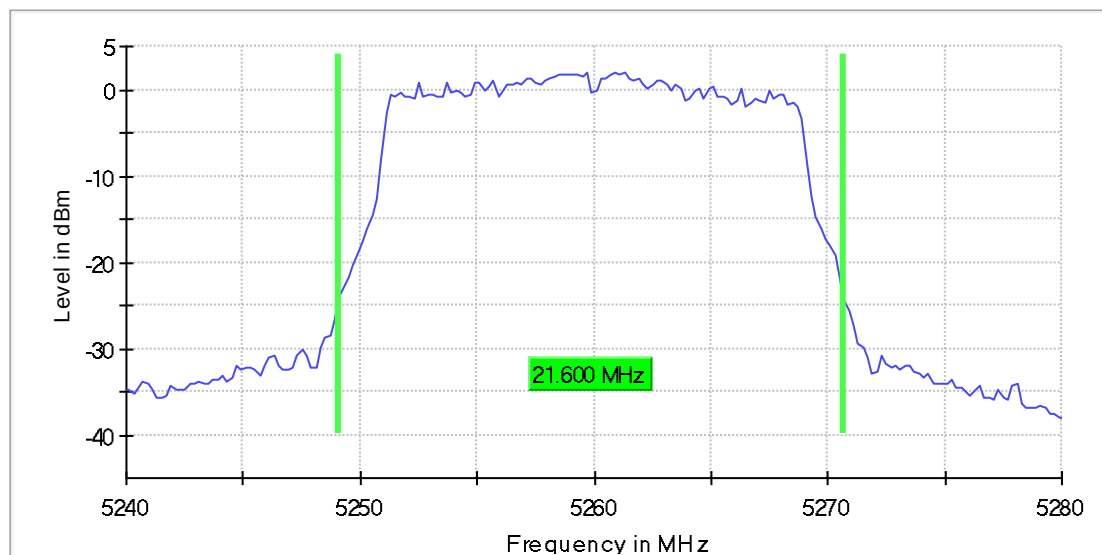
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

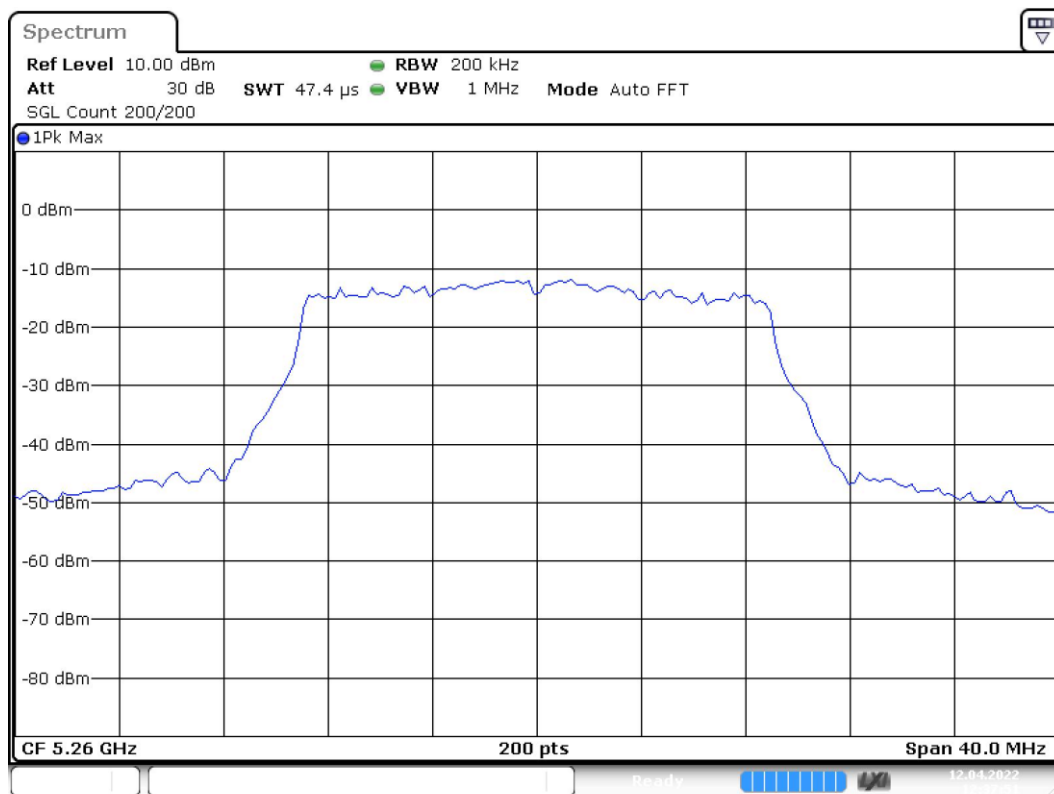
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	21.600000	---	---	5249.100000	5270.700000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5260.000000	2.1	PASS



Bandwidth



Date: 12.APR.2022 12:37:51

Measurement

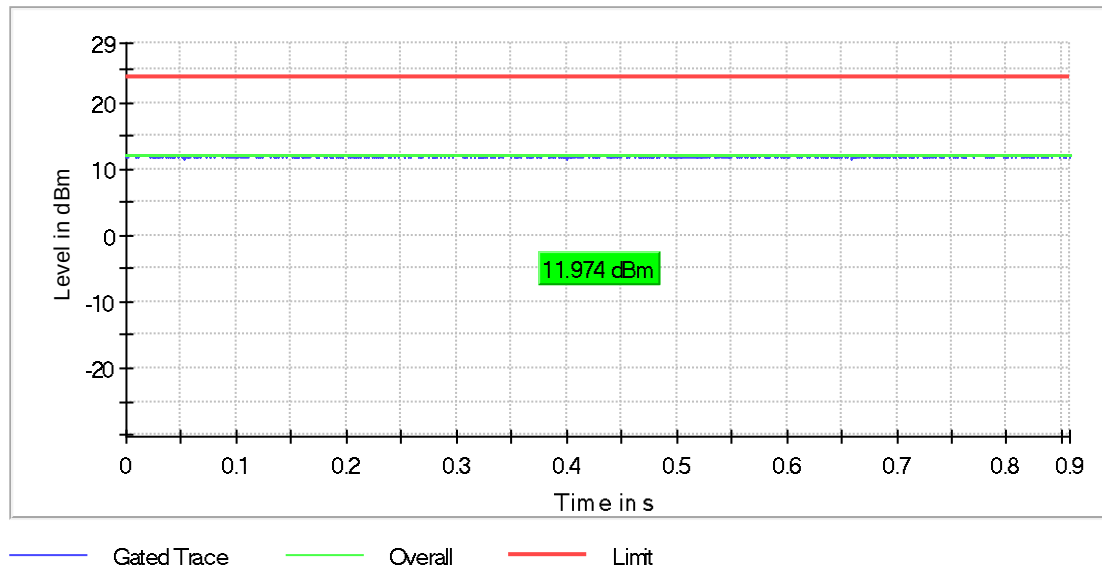
Setting	Instrument Value	Target Value
Start Frequency	5.24000 GHz	5.24000 GHz
Stop Frequency	5.28000 GHz	5.28000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 μ s	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	76 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB

RF output power (5260 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5260.000000	12.0	24.0	12.0	85.245	PASS



Power Spectral Density (5260 MHz; 20.000 dBm; 20 MHz)

Customized settings.

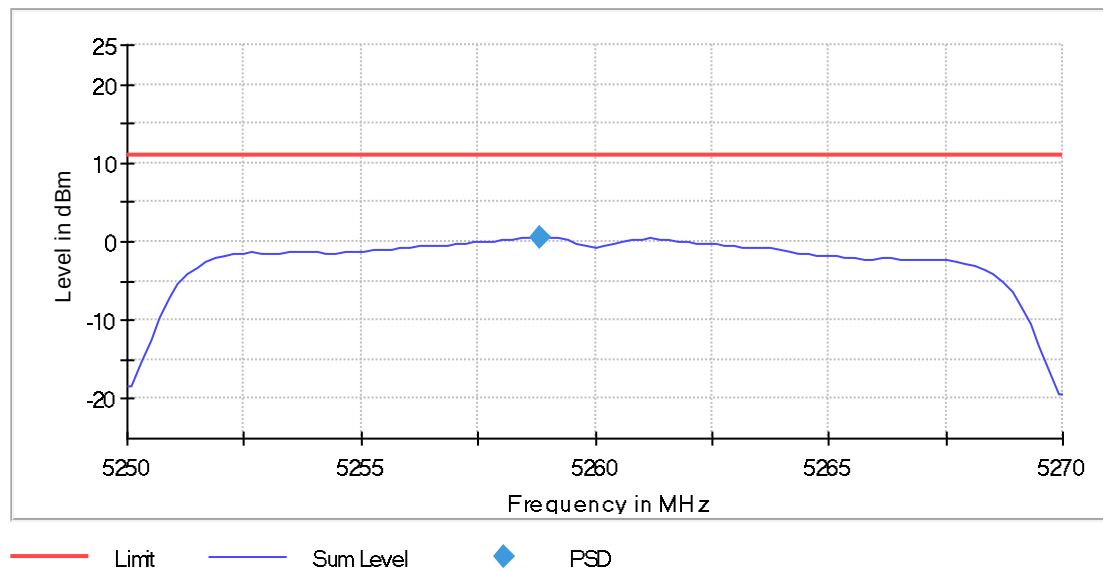
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5260.000000	5258.811881	0.585	11.0	PASS

Ports

Port	Duty Cycle (%)
1	84.591



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
Sweptime	2.020 s	2.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5260 MHz; 20.000 dBm; 20 MHz)

Customized settings.

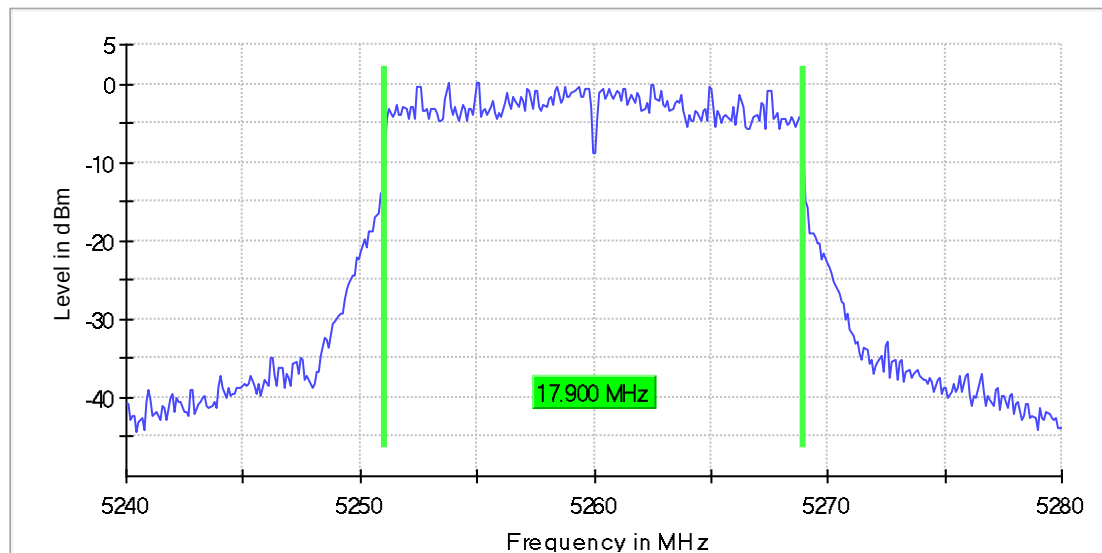
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB 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

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5260.000000	0.2	PASS



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	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	94.810 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	23 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.23 dB	0.30 dB

Occupied Channel Bandwidth 99% (5260 MHz; 20.000 dBm; 20 MHz)

Customized settings.

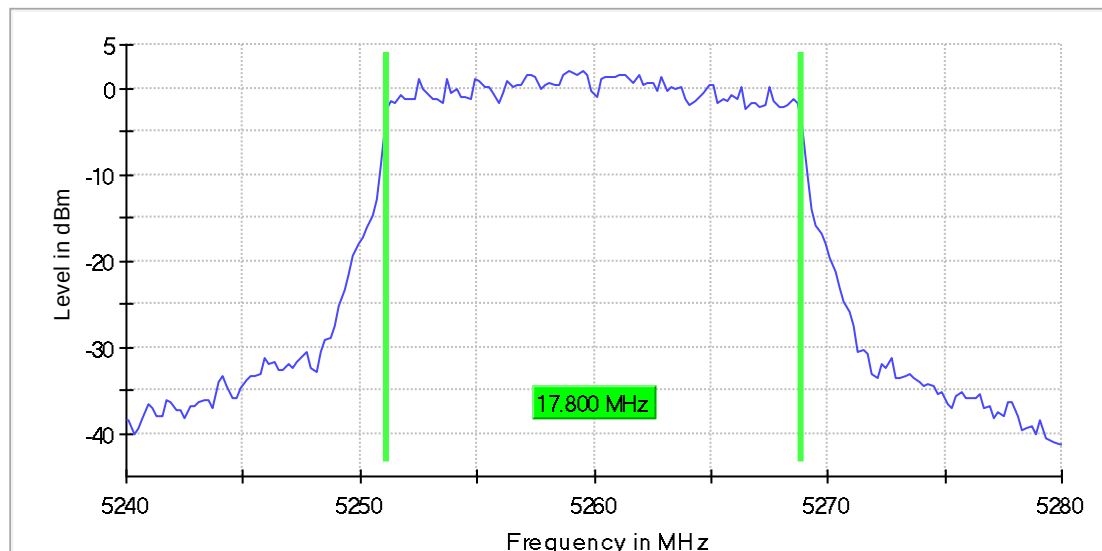
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	17.800000	---	---	5251.100000	5268.900000

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

DUT Frequency (MHz)	Result
5260.000000	PASS



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	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	13 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.18 dB	0.30 dB
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Band Edge low (5260 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

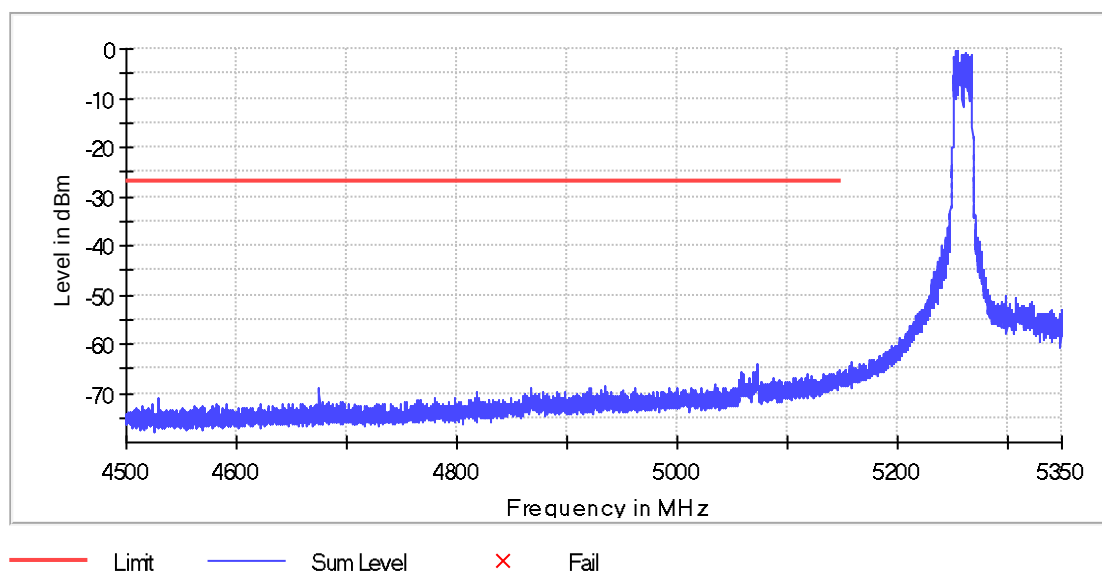
DUT Frequency (MHz)	Result
5260.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5253.725000	-0.4

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5072.725000	-64.0	37.0	-27.0	PASS
5072.675000	-64.2	37.2	-27.0	PASS
5073.675000	-65.2	38.2	-27.0	PASS
5148.475000	-65.2	38.2	-27.0	PASS
5073.625000	-65.4	38.4	-27.0	PASS
5073.825000	-65.4	38.4	-27.0	PASS
5073.925000	-65.5	38.5	-27.0	PASS
5070.175000	-65.7	38.7	-27.0	PASS
5146.475000	-65.7	38.7	-27.0	PASS
5072.625000	-65.7	38.7	-27.0	PASS
5071.425000	-65.7	38.7	-27.0	PASS
5073.875000	-65.8	38.8	-27.0	PASS
5071.475000	-65.8	38.8	-27.0	PASS
5148.525000	-65.8	38.8	-27.0	PASS
5070.225000	-65.8	38.8	-27.0	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.35000 GHz	5.35000 GHz
Span	100.000 MHz	100.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2000	~ 2000
SweepTime	227.813 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	40	40
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	1 / max. 1	max. 1
Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	4.50000 GHz	4.50000 GHz
Stop Frequency	5.25000 GHz	5.25000 GHz
Span	750.000 MHz	750.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	15000	~ 15000
SweepTime	15.000 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	2.34 dB	0.50 dB

Emission Bandwidth 26 dB (5280 MHz; 20.000 dBm; 20 MHz)

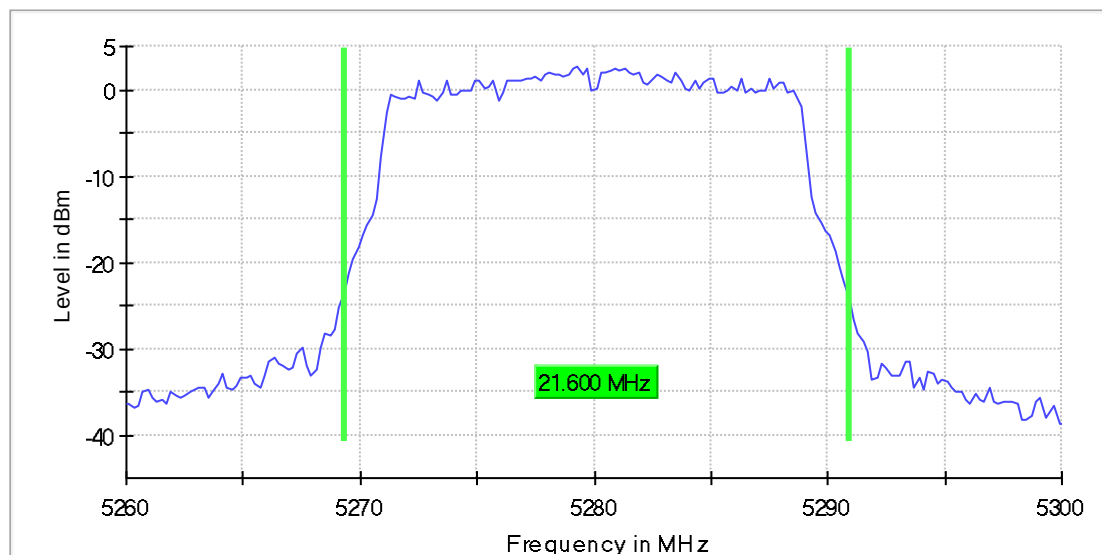
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

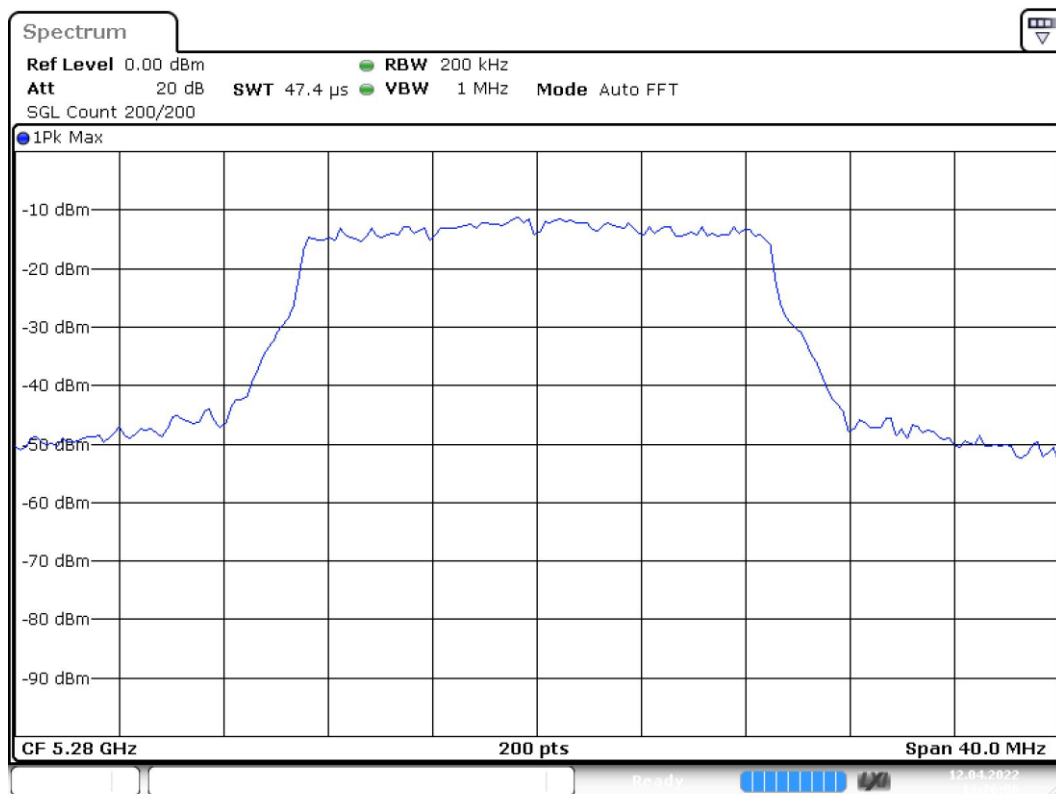
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5280.000000	21.600000	---	---	5269.300000	5290.900000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5280.000000	2.7	PASS



Bandwidth



Date: 12.APR.2022 13:26:01

Measurement

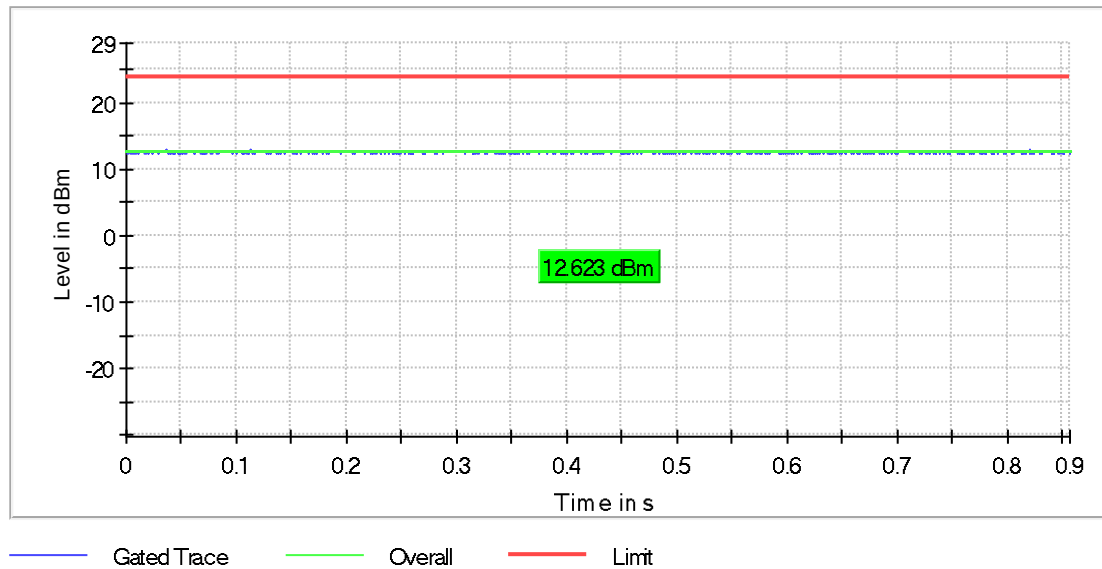
Setting	Instrument Value	Target Value
Start Frequency	5.26000 GHz	5.26000 GHz
Stop Frequency	5.30000 GHz	5.30000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	53 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.20 dB	0.30 dB

RF output power (5280 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5280.000000	12.6	24.0	12.6	85.225	PASS



Power Spectral Density (5280 MHz; 20.000 dBm; 20 MHz)

Customized settings.

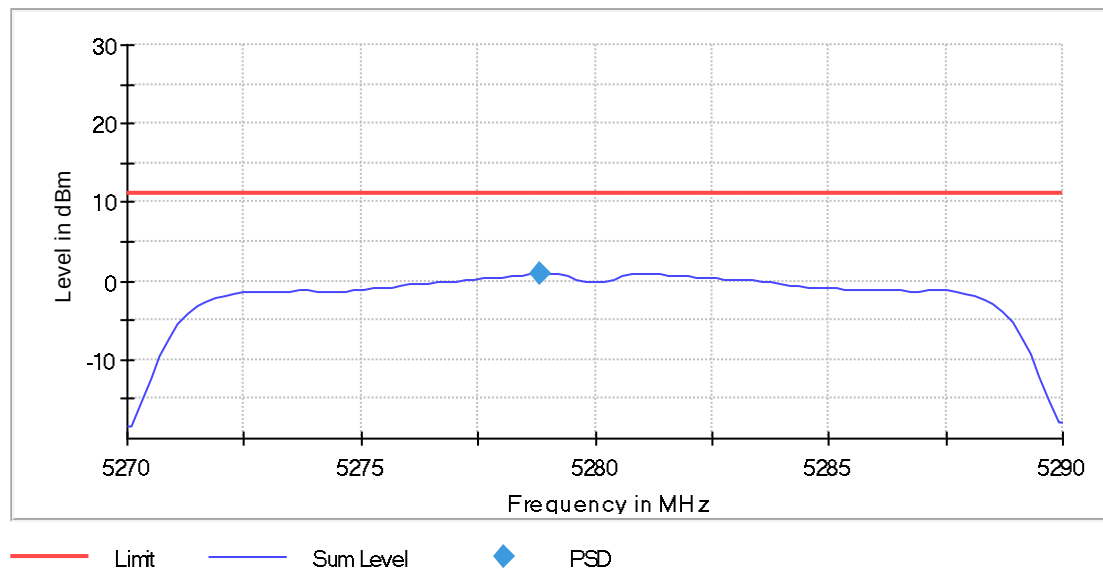
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5280.000000	5278.811881	0.976	11.0	PASS

Ports

Port	Duty Cycle (%)
1	84.584



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.29000 GHz	5.29000 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
Sweptime	2.020 s	2.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5280 MHz; 20.000 dBm; 20 MHz)

Customized settings.

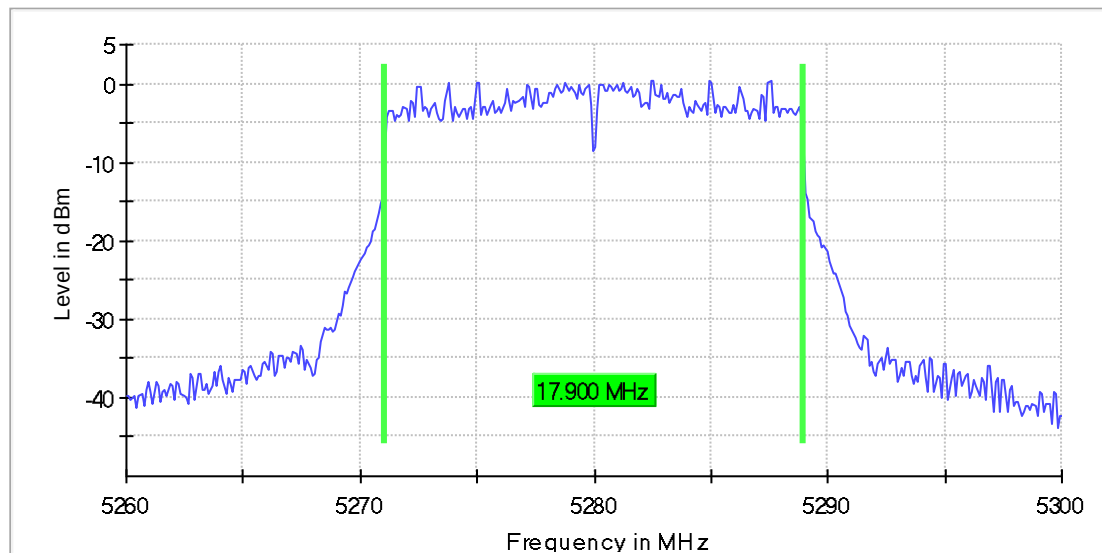
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5280.000000	17.900000	---	---	5271.050000	5288.950000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5280.000000	0.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.26000 GHz	5.26000 GHz
Stop Frequency	5.30000 GHz	5.30000 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	94.810 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	20 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.27 dB	0.30 dB

Occupied Channel Bandwidth 99% (5280 MHz; 20.000 dBm; 20 MHz)

Customized settings.

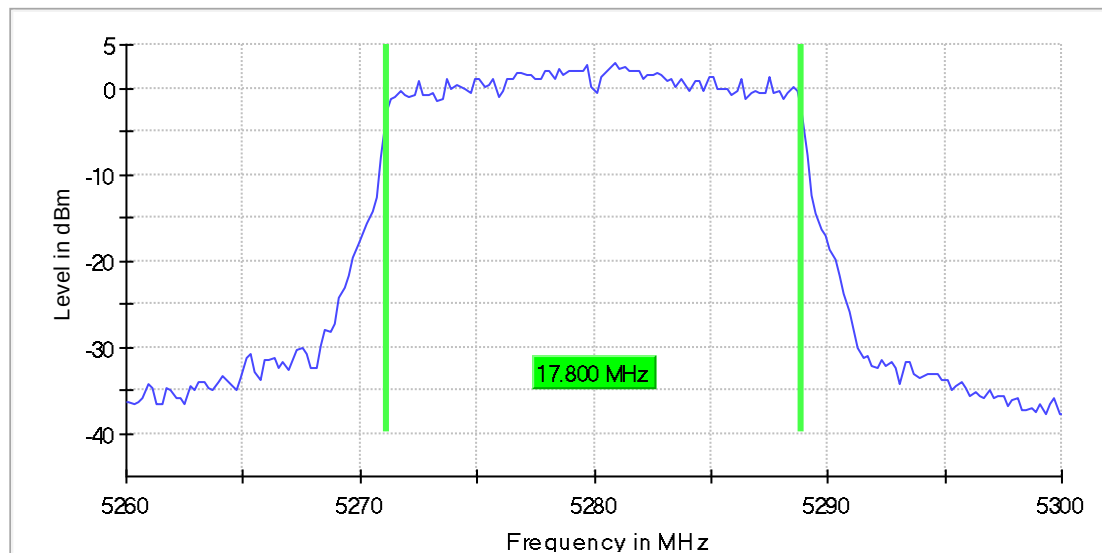
Test according to FCC title 47 part 15 §15.407(a),(e),

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	---	---	5271.100000	5288.900000

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

DUT Frequency (MHz)	Result
5280.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.26000 GHz	5.26000 GHz
Stop Frequency	5.30000 GHz	5.30000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	<= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	21 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.17 dB	0.30 dB
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Emission Bandwidth 26 dB (5320 MHz; 20.000 dBm; 20 MHz)

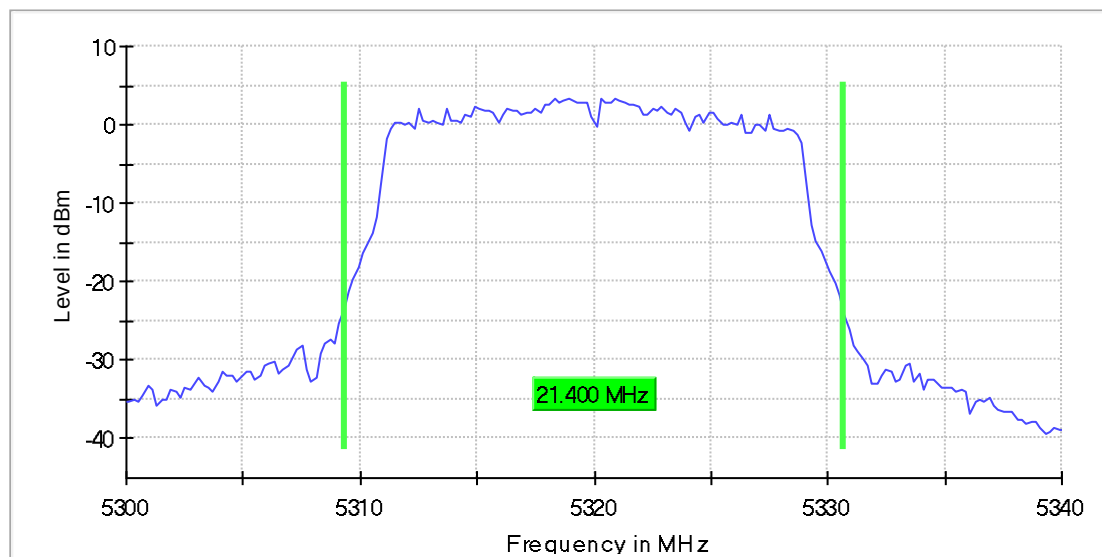
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

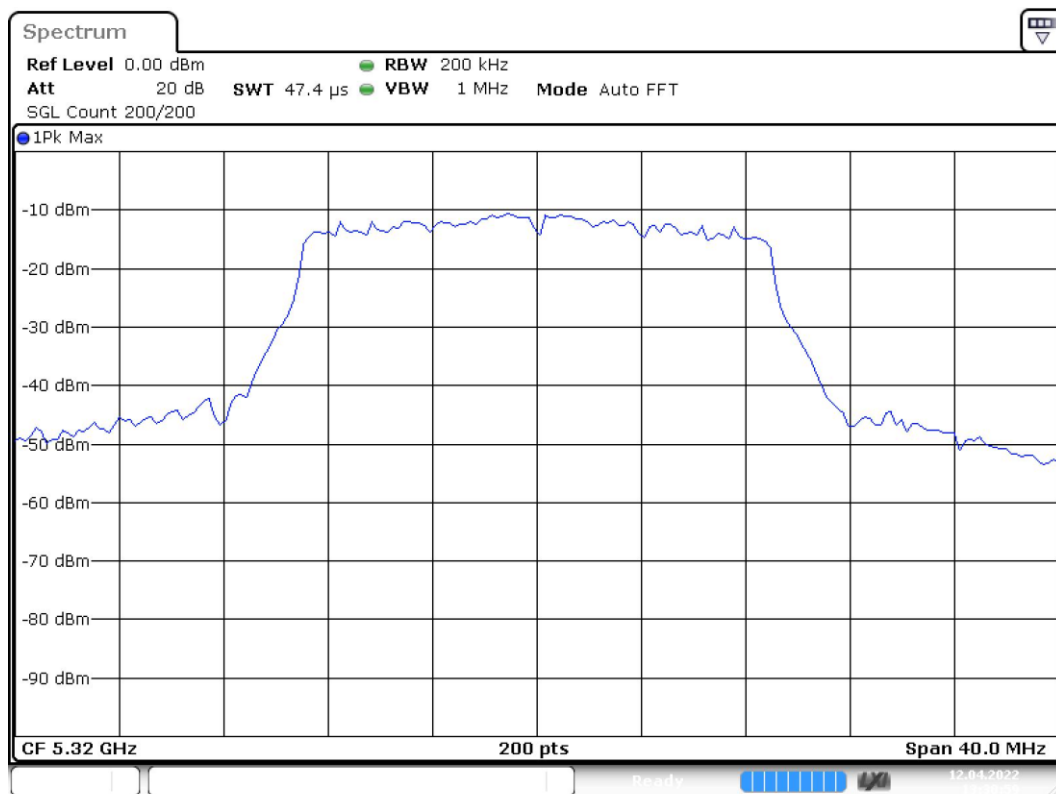
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	21.400000	---	---	5309.300000	5330.700000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5320.000000	3.4	PASS



Bandwidth



Date: 12.APR.2022 13:30:59

Measurement

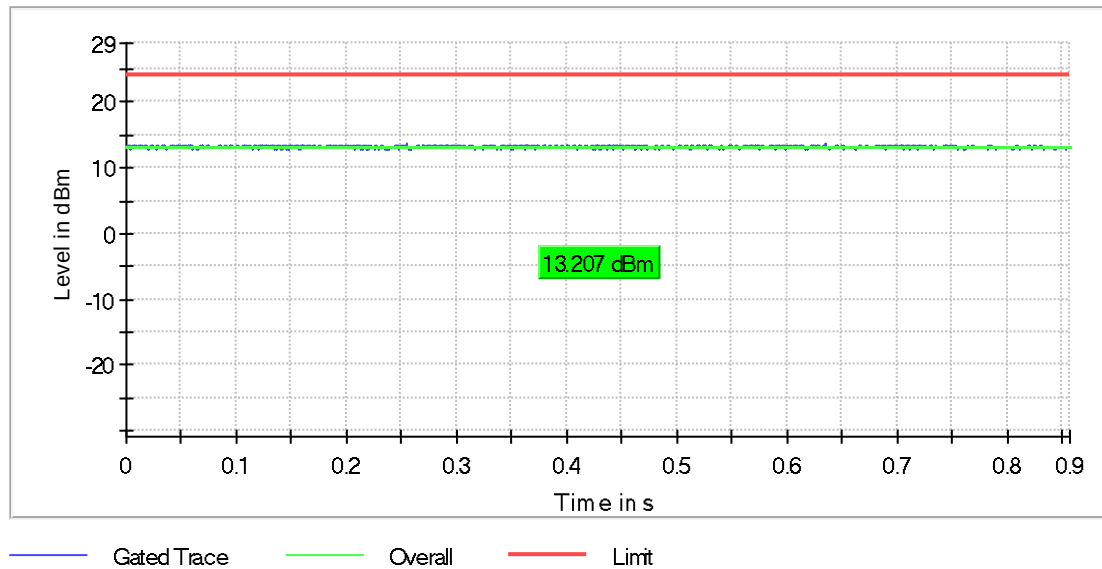
Setting	Instrument Value	Target Value
Start Frequency	5.30000 GHz	5.30000 GHz
Stop Frequency	5.34000 GHz	5.34000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	29 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.17 dB	0.30 dB

RF output power (5320 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5320.000000	13.2	24.0	13.2	85.215	PASS



Power Spectral Density (5320 MHz; 20.000 dBm; 20 MHz)

Customized settings.

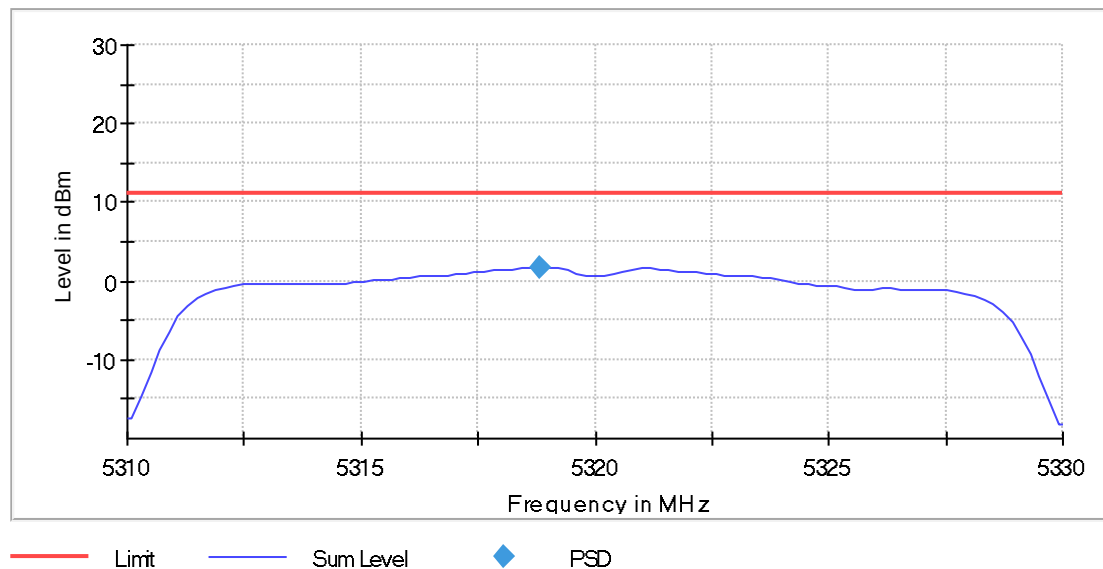
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5320.000000	5318.811881	1.788	11.0	PASS

Ports

Port	Duty Cycle (%)
1	84.572



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.31000 GHz	5.31000 GHz
Stop Frequency	5.33000 GHz	5.33000 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
Sweptime	2.020 s	2.020 s
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5320 MHz; 20.000 dBm; 20 MHz)

Customized settings.

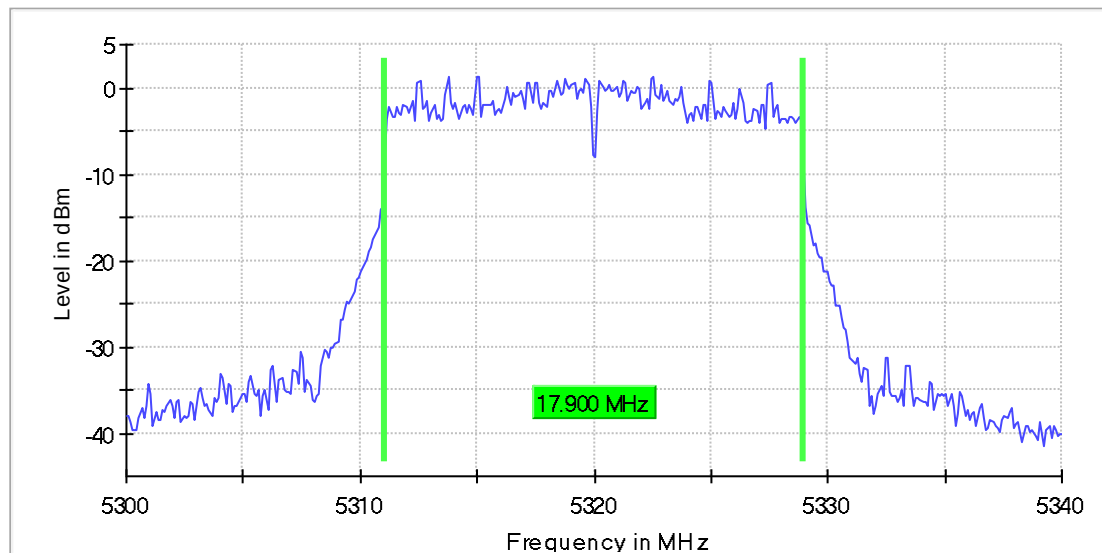
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	17.900000	---	---	5311.050000	5328.950000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5320.000000	1.3	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.30000 GHz	5.30000 GHz
Stop Frequency	5.34000 GHz	5.34000 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	94.810 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	17 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.14 dB	0.30 dB

Occupied Channel Bandwidth 99% (5320 MHz; 20.000 dBm; 20 MHz)

Customized settings.

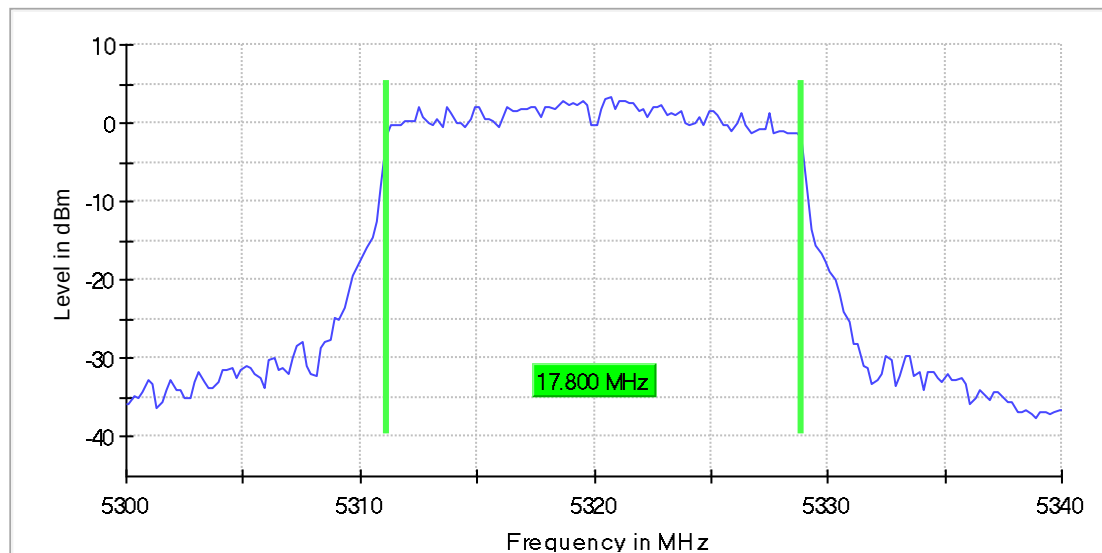
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	17.800000	---	---	5311.100000	5328.900000

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

DUT Frequency (MHz)	Result
5320.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.30000 GHz	5.30000 GHz
Stop Frequency	5.34000 GHz	5.34000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	<= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	11 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.10 dB	0.30 dB
-----------------------	---------	---------

Band Edge high (5320 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

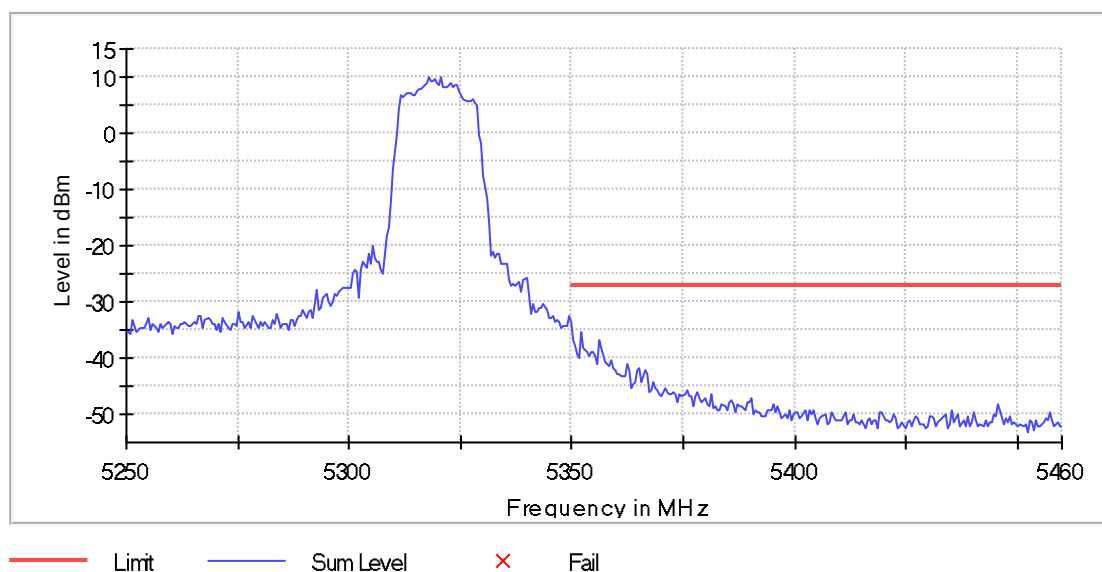
DUT Frequency (MHz)	Result
5320.000000	PASS

Inband Peak

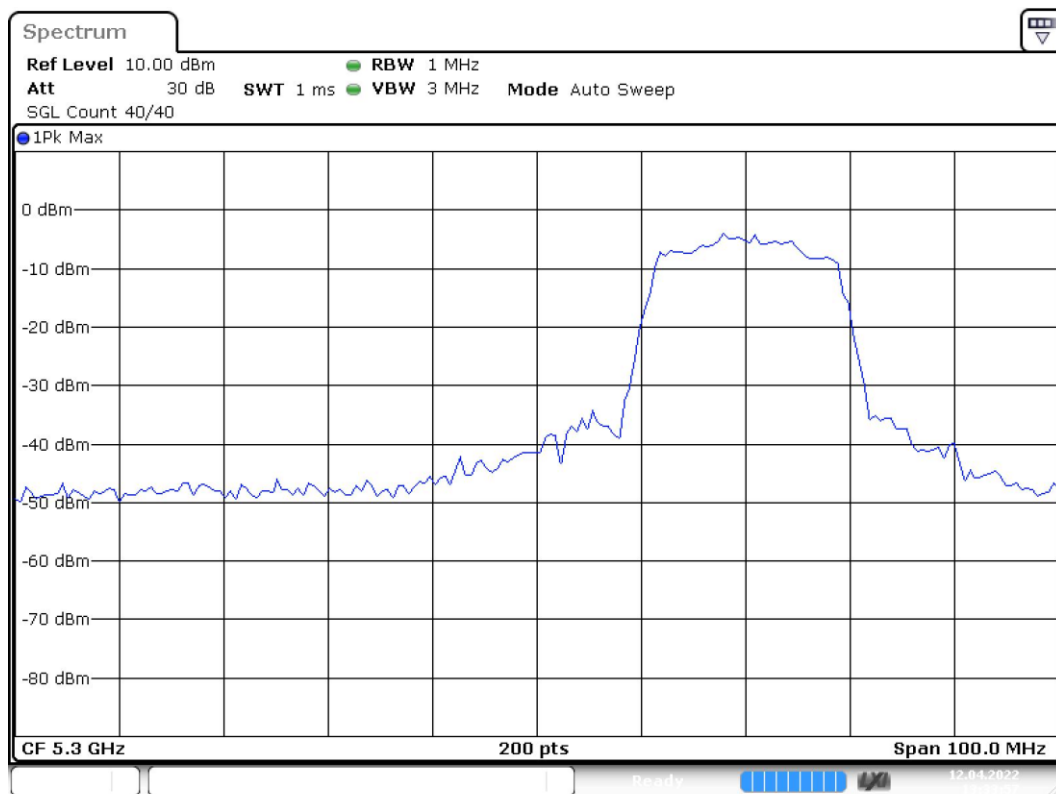
Frequency (MHz)	Level (dBm)
5317.750000	10.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5352.250000	-35.4	8.4	-27.0	PASS
5350.250000	-36.8	9.8	-27.0	PASS
5356.250000	-36.9	9.9	-27.0	PASS
5350.750000	-37.8	10.8	-27.0	PASS
5352.750000	-38.3	11.3	-27.0	PASS
5356.750000	-38.3	11.3	-27.0	PASS
5354.250000	-38.9	11.9	-27.0	PASS
5354.750000	-38.9	11.9	-27.0	PASS
5353.250000	-39.0	12.0	-27.0	PASS
5351.250000	-39.4	12.4	-27.0	PASS
5355.250000	-39.5	12.5	-27.0	PASS
5353.750000	-39.7	12.7	-27.0	PASS
5351.750000	-39.9	12.9	-27.0	PASS
5358.750000	-40.2	13.2	-27.0	PASS
5357.250000	-40.9	13.9	-27.0	PASS

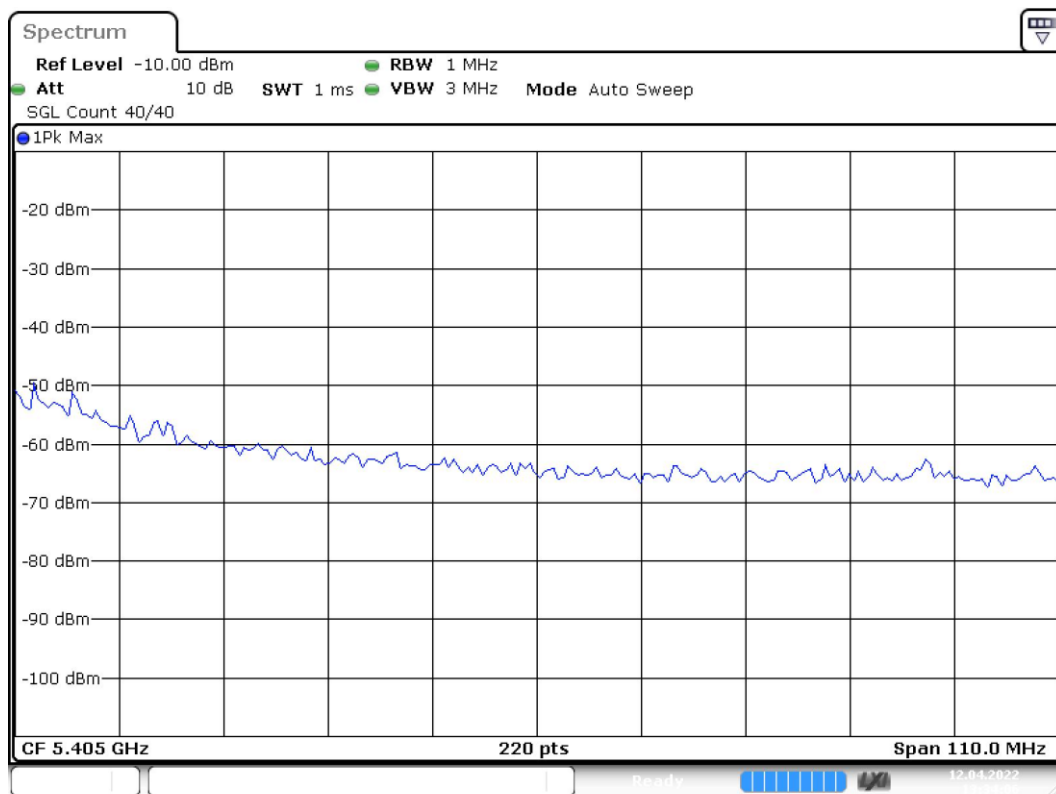


Band Edge Connector 1_0



Date: 12.APR.2022 13:33:58

Band Edge Connector 1_1



Date: 12.APR.2022 13:34:07

Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.35000 GHz	5.35000 GHz
Span	100.000 MHz	100.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
Sweptime	1.000 ms	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	40	40
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	1 / max. 1	max. 1
Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.35000 GHz	5.35000 GHz
Stop Frequency	5.46000 GHz	5.46000 GHz
Span	110.000 MHz	110.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz

SweepPoints	220	~ 220
SweepTime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-20.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	40	40
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	1 / max. 1	max. 1
Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

FCC 15.407 2015

DUT Information

Frequencies

WLAN CH 36 (5180 MHz)	WLAN CH 40 (5200 MHz)	WLAN CH 48 (5240 MHz)
WLAN CH 149 (5745 MHz)	WLAN CH 157 (5785 MHz)	WLAN CH 165 (5825 MHz)
WLAN CH 52 (5260 MHz)	WLAN CH 56 (5280 MHz)	WLAN CH 64 (5320 MHz)
WLAN CH 100 (5500 MHz)	WLAN CH 120 (5600 MHz)	WLAN CH 140 (5700 MHz)
WLAN CH 116 (5580 MHz)		

Bandwidths

20 MHz (20 MHz)

Power

20.000 dBm (20 dBm)

Beamforming Gain

20.000 dBm (20 dBm) 0 dB

Gain Tables

20.000 dBm (20 dBm) Port 1: 0dBi;

DUT Settings

No. of transmission chains	1
DFS capability	Yes
DFS Mode	Master
Equipment Type	Portable
TPC	No

Hardware Setup: WMS Measurements\Hardware Setup

Spectrum Analyzer:	SA FSV 40 (SA FSV 40) @ VISA (ADR TCPIP::192.168.48.149::INST0::INSTR), SN 1321.3008K39/101229, FW 3.40
Vector Generator:	VG SMBV100A (VG SMBV100A) @ VISA (ADR TCPIP::192.168.48.25::INST0::INSTR), SN 260451, FW 4.15.125.49
Generator:	SMB100A (SMB100A) @ VISA (ADR TCPIP::192.168.48.30::INST0::INSTR), SN 178361, FW / Drv:Rev 2.21.0, 07/2016, CVI 2015
OSP:	OSP-B157W (OSP-B157W) @ VISA (ADR TCPIP::192.168.48.157::INST0::INSTR), SN 1527.1144. /, FW 1.23.0.2

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5500.000	20.0	20.000000	PASS
RF output power	5500.000	20.0	20.000000	PASS
Power Spectral Density	5500.000	20.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5500.000	20.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5500.000	20.0	20.000000	PASS
Band Edge low	5500.000	20.0	20.000000	PASS
Emission Bandwidth 26 dB	5600.000	20.0	20.000000	PASS
RF output power	5600.000	20.0	20.000000	PASS
Power Spectral Density	5600.000	20.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5600.000	20.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5600.000	20.0	20.000000	PASS
Emission Bandwidth 26 dB	5700.000	20.0	20.000000	PASS
RF output power	5700.000	20.0	20.000000	PASS
Power Spectral Density	5700.000	20.0	20.000000	PASS
Minimum Emission Bandwidth 6 dB	5700.000	20.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5700.000	20.0	20.000000	PASS
Band Edge high	5700.000	20.0	20.000000	PASS

Emission Bandwidth 26 dB (5500 MHz; 20.000 dBm; 20 MHz)

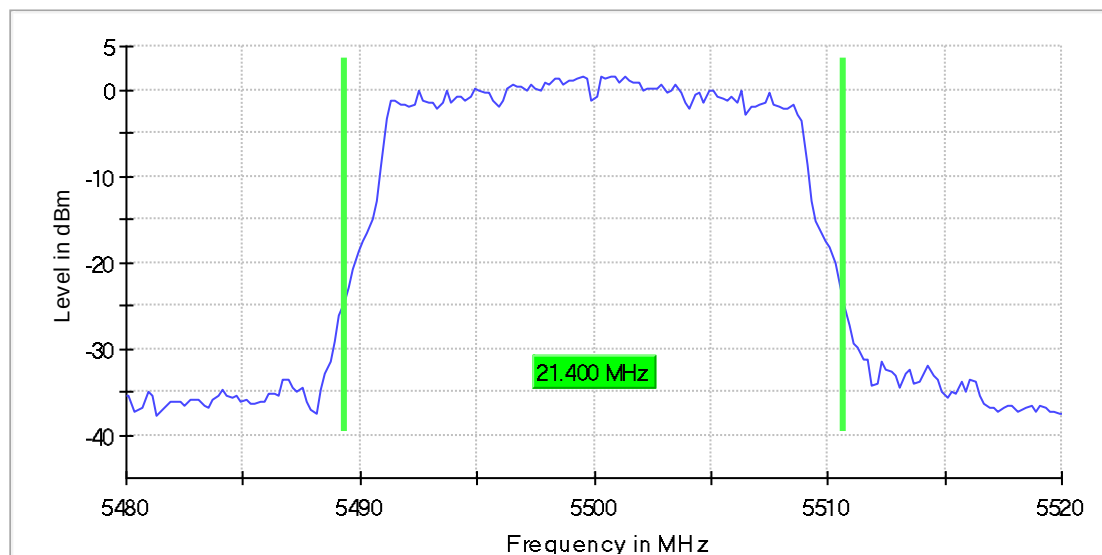
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

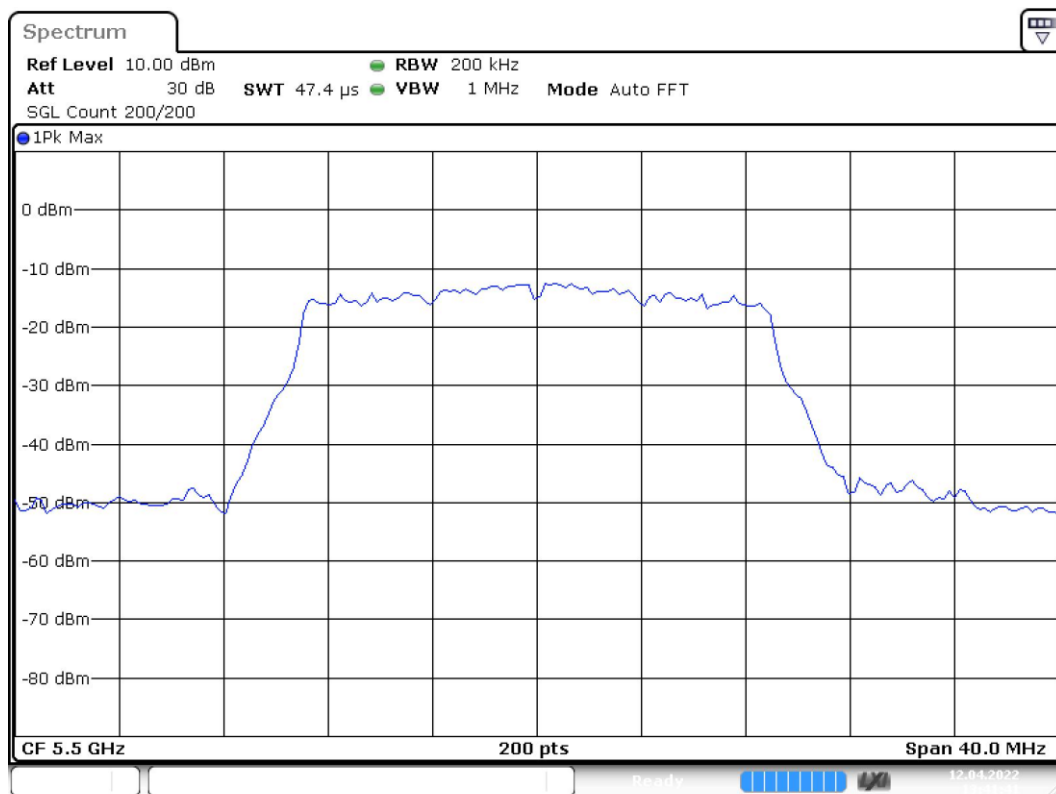
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5500.000000	21.400000	---	---	5489.300000	5510.700000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5500.000000	1.6	PASS



Bandwidth



Date: 12.APR.2022 13:41:42

Measurement

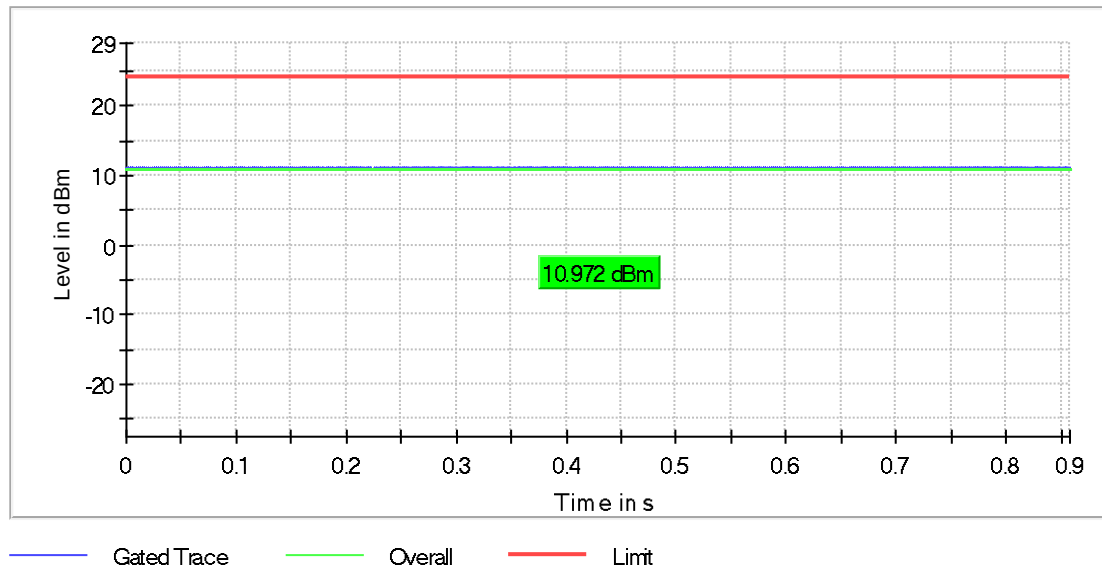
Setting	Instrument Value	Target Value
Start Frequency	5.48000 GHz	5.48000 GHz
Stop Frequency	5.52000 GHz	5.52000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	50 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB

RF output power (5500 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5500.000000	11.0	24.0	11.0	85.323	PASS



Power Spectral Density (5500 MHz; 20.000 dBm; 20 MHz)

Customized settings.

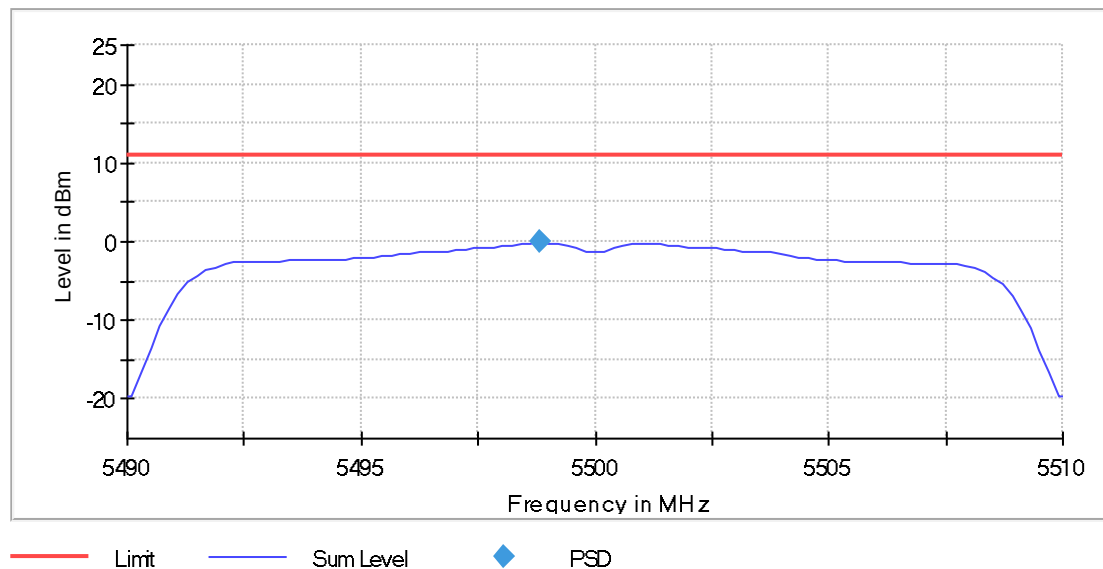
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5500.000000	5498.811881	-0.116	11.0	PASS

Ports

Port	Duty Cycle (%)
1	84.602



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.49000 GHz	5.49000 GHz
Stop Frequency	5.51000 GHz	5.51000 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
Sweptime	2.020 s	2.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5500 MHz; 20.000 dBm; 20 MHz)

Customized settings.

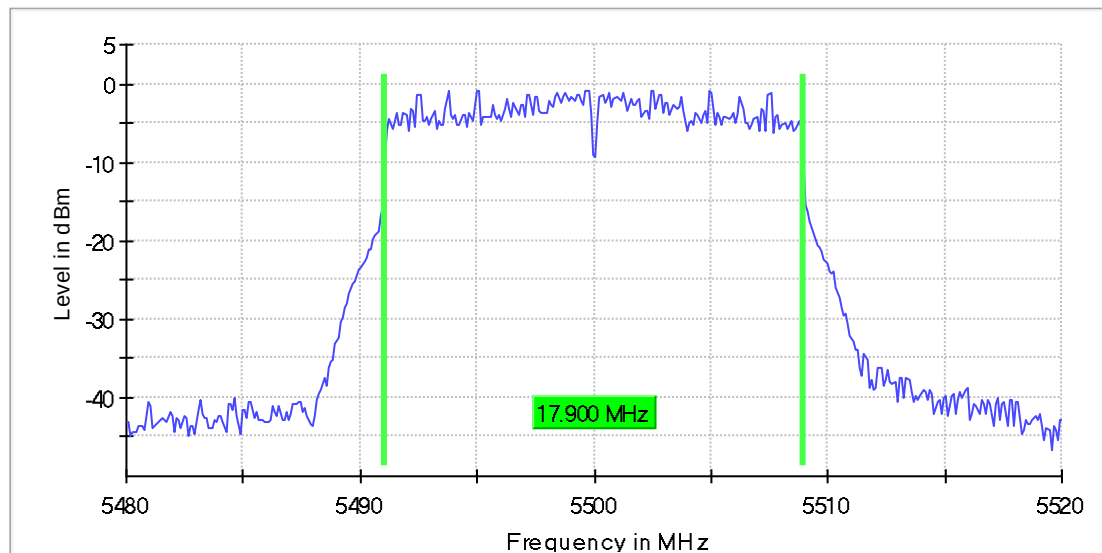
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5500.000000	17.900000	---	---	5491.050000	5508.950000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5500.000000	-0.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.48000 GHz	5.48000 GHz
Stop Frequency	5.52000 GHz	5.52000 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	94.810 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	23 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.25 dB	0.30 dB

Occupied Channel Bandwidth 99% (5500 MHz; 20.000 dBm; 20 MHz)

Customized settings.

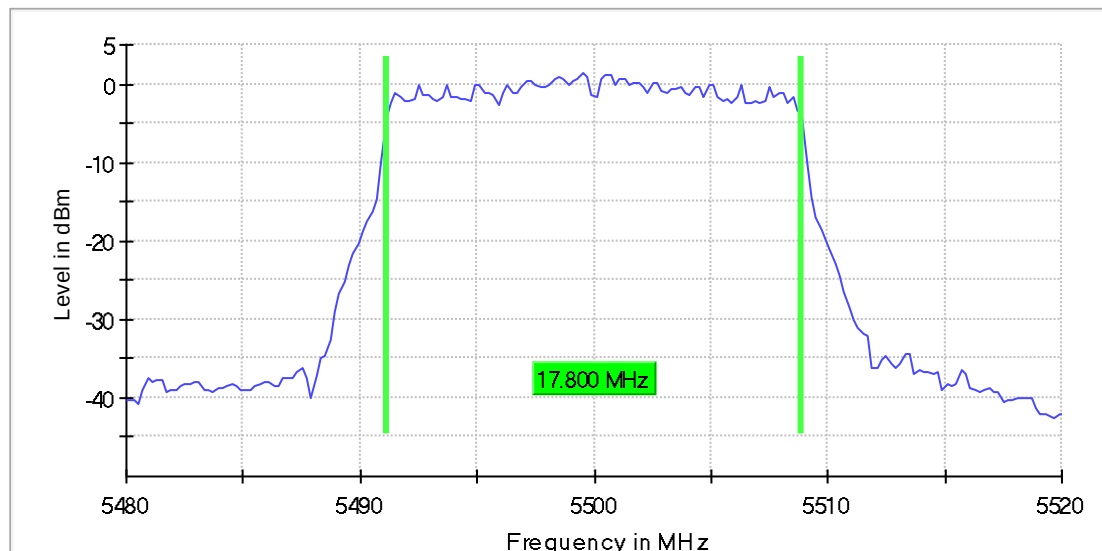
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5500.000000	17.800000	---	---	5491.100000	5508.900000

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

DUT Frequency (MHz)	Result
5500.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.48000 GHz	5.48000 GHz
Stop Frequency	5.52000 GHz	5.52000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	<= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	13 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.27 dB	0.30 dB
-----------------------	---------	---------

Band Edge low (5500 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

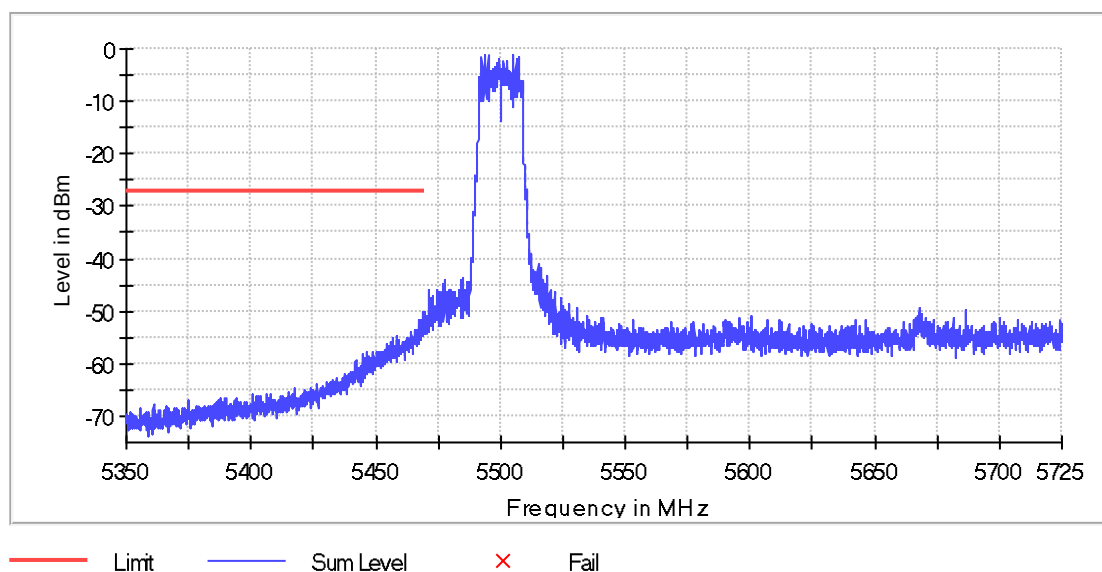
DUT Frequency (MHz)	Result
5500.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5493.725000	-1.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5469.975000	-50.0	23.0	-27.0	PASS
5469.025000	-50.0	23.0	-27.0	PASS
5469.925000	-50.1	23.1	-27.0	PASS
5469.075000	-50.2	23.2	-27.0	PASS
5469.675000	-50.9	23.9	-27.0	PASS
5468.975000	-50.9	23.9	-27.0	PASS
5469.725000	-51.1	24.1	-27.0	PASS
5468.125000	-51.5	24.5	-27.0	PASS
5467.525000	-51.5	24.5	-27.0	PASS
5467.475000	-51.7	24.7	-27.0	PASS
5469.125000	-51.8	24.8	-27.0	PASS
5469.775000	-51.9	24.9	-27.0	PASS
5468.175000	-52.1	25.1	-27.0	PASS
5469.625000	-52.1	25.1	-27.0	PASS
5467.575000	-52.1	25.1	-27.0	PASS



Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.47000 GHz	5.47000 GHz
Stop Frequency	5.72500 GHz	5.72500 GHz
Span	255.000 MHz	255.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	5100	~ 5100
SweepTime	569.531 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	40	40
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	1 / max. 1	max. 1
Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.35000 GHz	5.35000 GHz
Stop Frequency	5.47000 GHz	5.47000 GHz
Span	120.000 MHz	120.000 MHz
RBW	100.000 kHz	<= 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	2400	~ 2400
SweepTime	265.781 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	50	50
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	5 / max. 5	max. 5
Stable	0 / 1	1
Max Stable Difference	3.17 dB	0.50 dB

Emission Bandwidth 26 dB (5600 MHz; 20.000 dBm; 20 MHz)

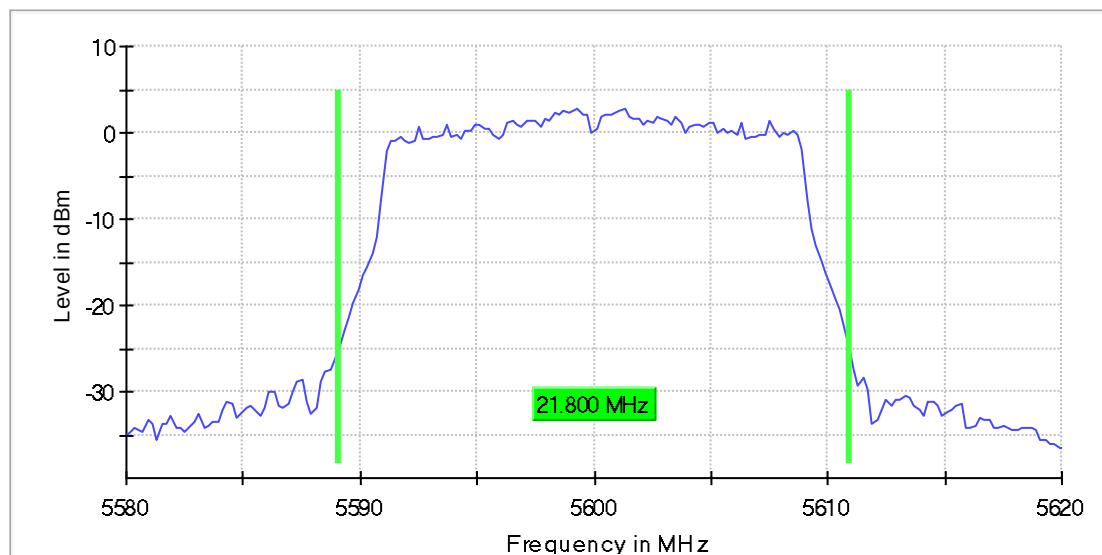
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

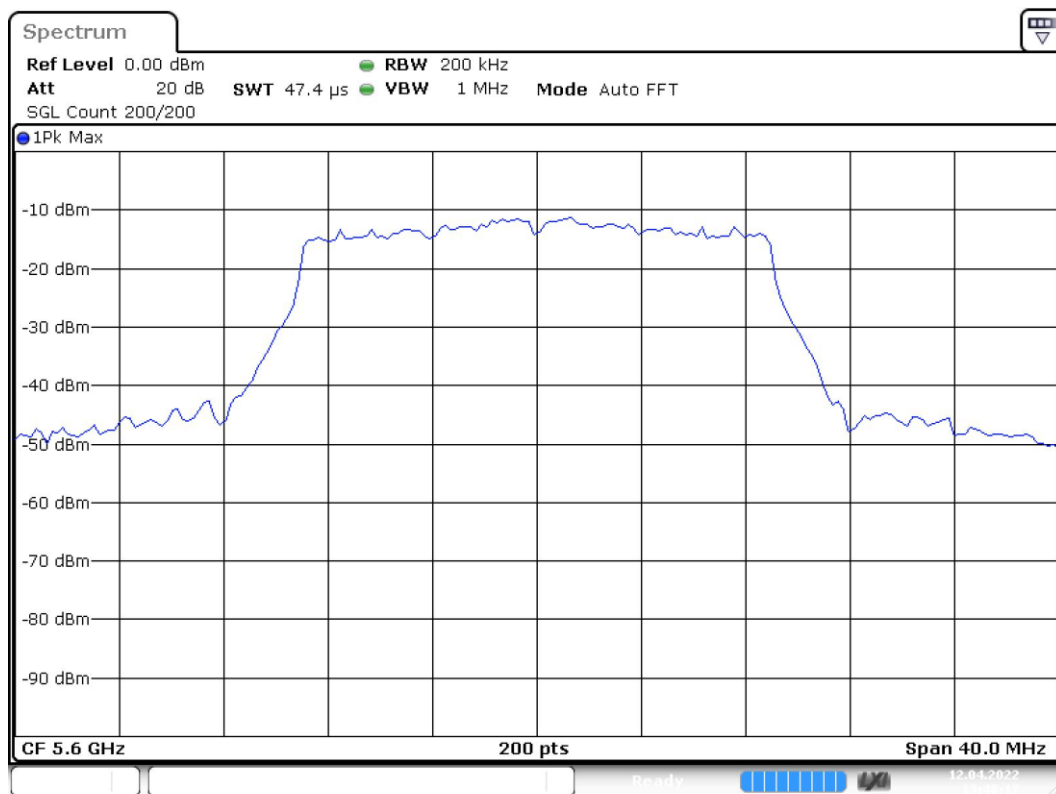
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5600.000000	21.800000	---	---	5589.100000	5610.900000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5600.000000	2.8	PASS



Bandwidth



Date: 12.APR.2022 13:48:17

Measurement

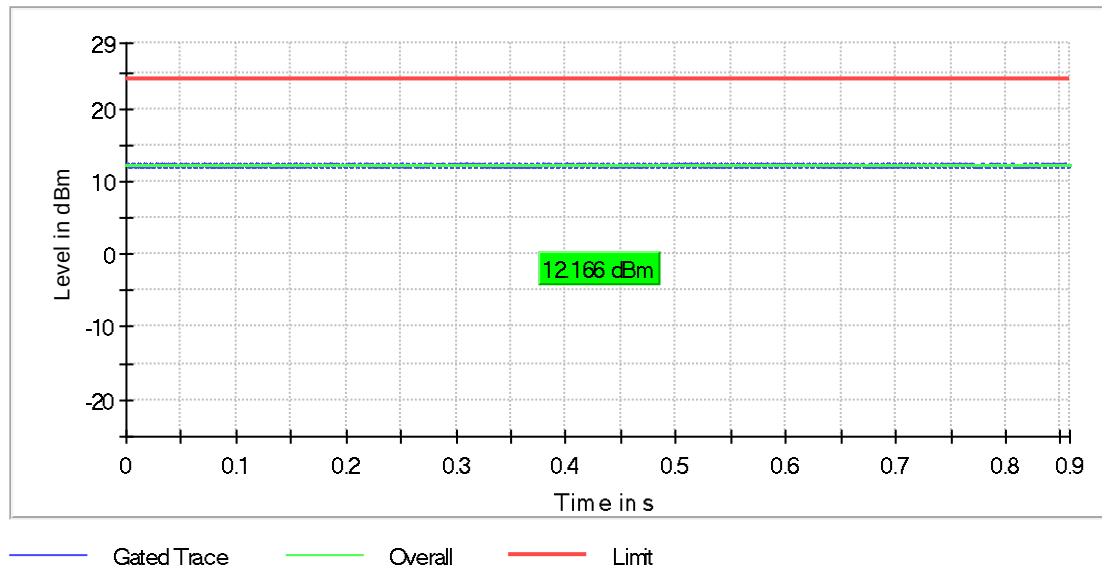
Setting	Instrument Value	Target Value
Start Frequency	5.58000 GHz	5.58000 GHz
Stop Frequency	5.62000 GHz	5.62000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	56 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.04 dB	0.30 dB

RF output power (5600 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5600.000000	12.2	24.0	12.2	85.346	PASS



Power Spectral Density (5600 MHz; 20.000 dBm; 20 MHz)

Customized settings.

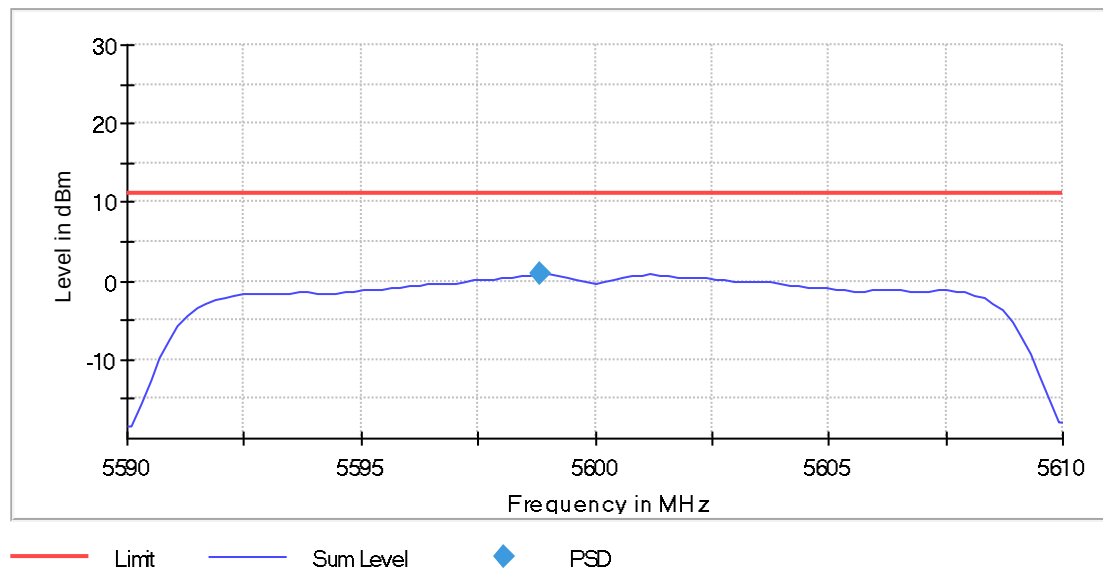
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5600.000000	5598.811881	0.816	11.0	PASS

Ports

Port	Duty Cycle (%)
1	84.620



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.59000 GHz	5.59000 GHz
Stop Frequency	5.61000 GHz	5.61000 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
Sweptime	2.020 s	2.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5600 MHz; 20.000 dBm; 20 MHz)

Customized settings.

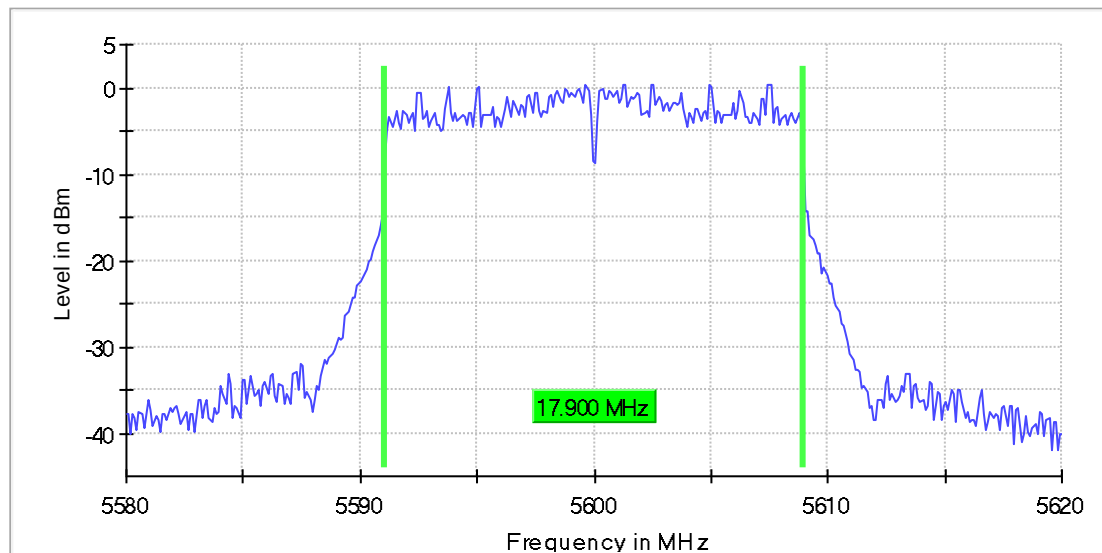
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5600.000000	17.900000	---	---	5591.050000	5608.950000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5600.000000	0.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.58000 GHz	5.58000 GHz
Stop Frequency	5.62000 GHz	5.62000 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	94.810 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	21 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.20 dB	0.30 dB

Occupied Channel Bandwidth 99% (5600 MHz; 20.000 dBm; 20 MHz)

Customized settings.

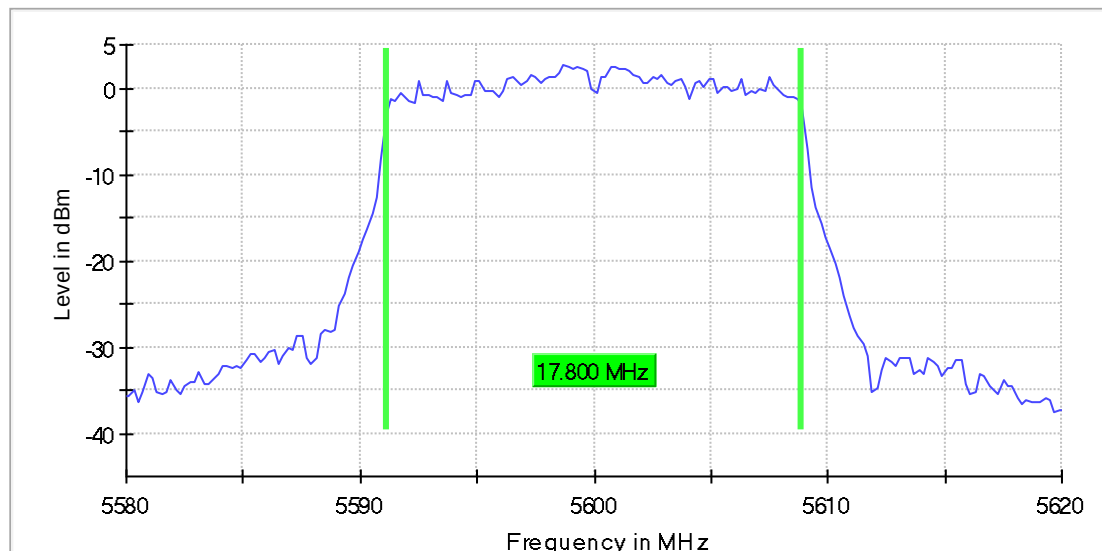
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5600.000000	17.800000	---	---	5591.100000	5608.900000

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

DUT Frequency (MHz)	Result
5600.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.58000 GHz	5.58000 GHz
Stop Frequency	5.62000 GHz	5.62000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	<= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	17 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.06 dB	0.30 dB
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Emission Bandwidth 26 dB (5700 MHz; 20.000 dBm; 20 MHz)

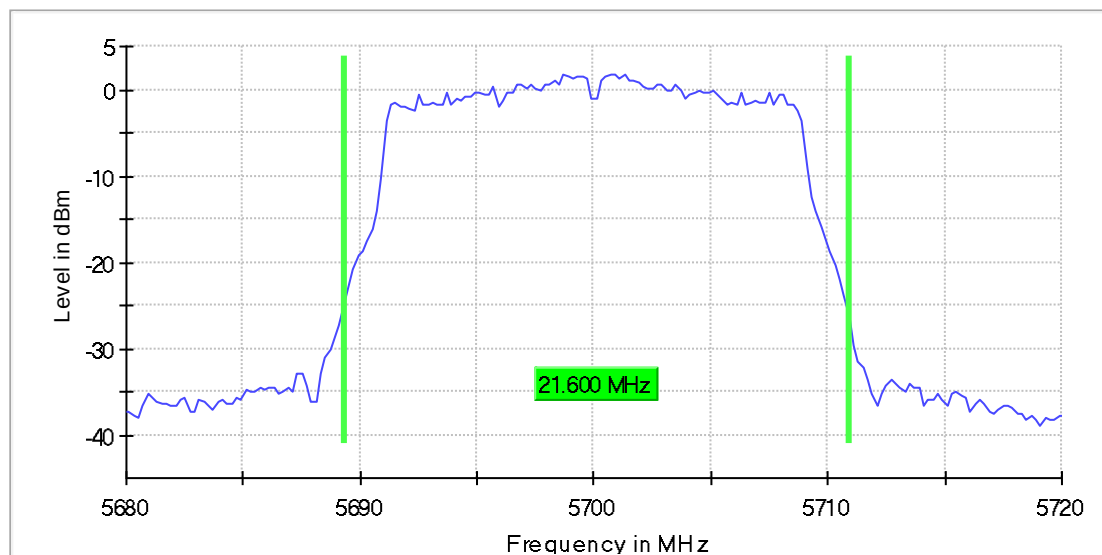
Test according to FCC title 47 part 15 §15.407(a),(e),

26 dB Bandwidth

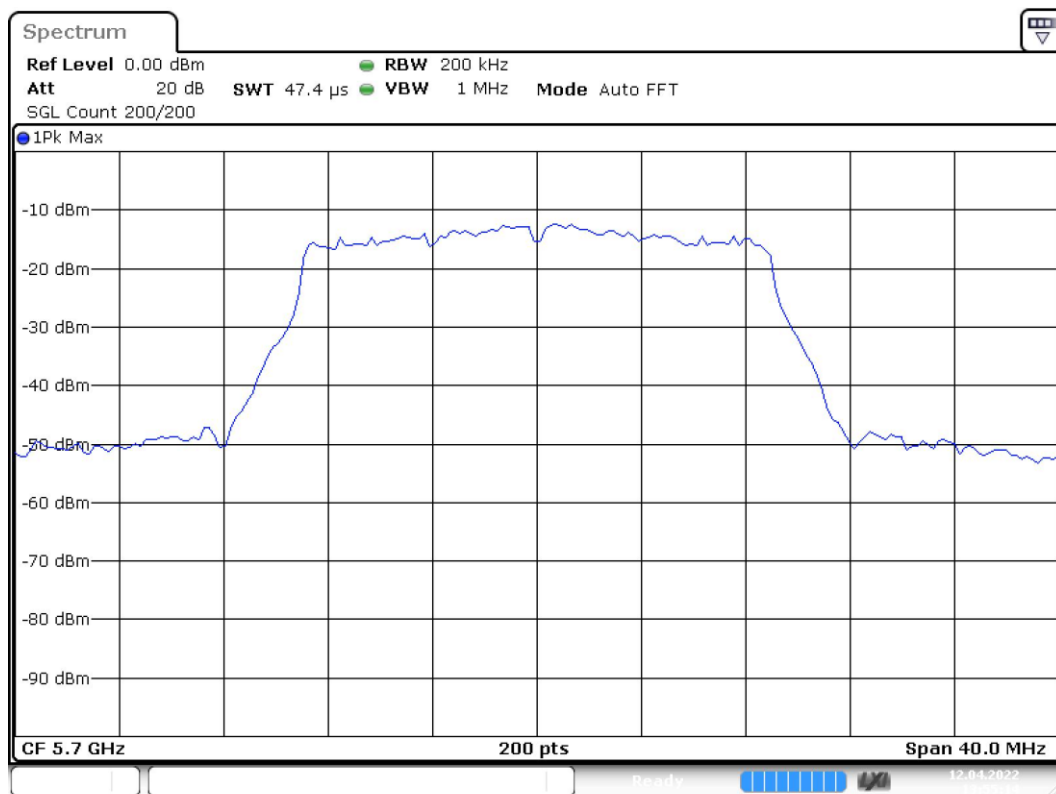
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5700.000000	21.600000	---	---	5689.300000	5710.900000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5700.000000	1.8	PASS



Bandwidth



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Measurement

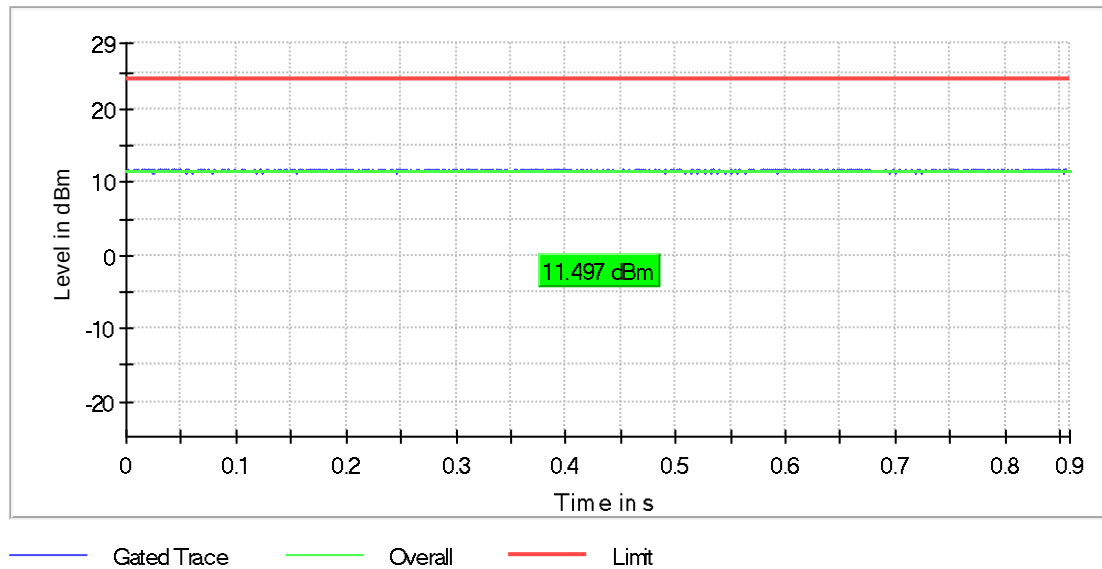
Setting	Instrument Value	Target Value
Start Frequency	5.68000 GHz	5.68000 GHz
Stop Frequency	5.72000 GHz	5.72000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	87 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.30 dB

RF output power (5700 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5700.000000	11.5	24.0	11.5	85.373	PASS



Power Spectral Density (5700 MHz; 20.000 dBm; 20 MHz)

Customized settings.

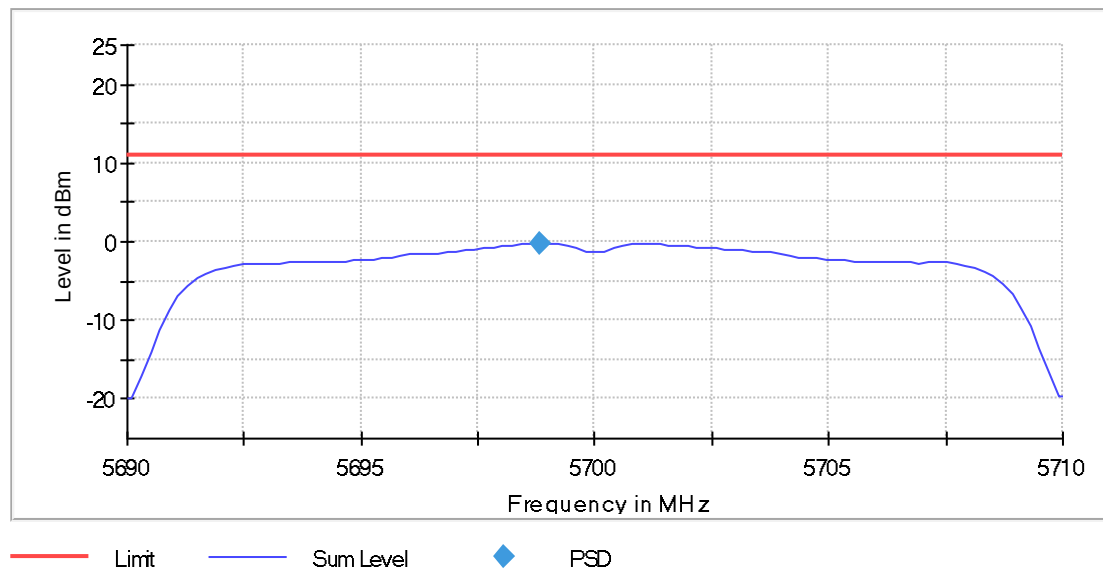
Test according to FCC title 47 part 15 §15.407(a),

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5700.000000	5698.811881	-0.133	11.0	PASS

Ports

Port	Duty Cycle (%)
1	84.622



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.69000 GHz	5.69000 GHz
Stop Frequency	5.71000 GHz	5.71000 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
Sweptime	2.020 s	2.020 s
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	RMS	RMS
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	1 / max. 1	max. 1

Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.30 dB

Minimum Emission Bandwidth 6 dB (5700 MHz; 20.000 dBm; 20 MHz)

Customized settings.

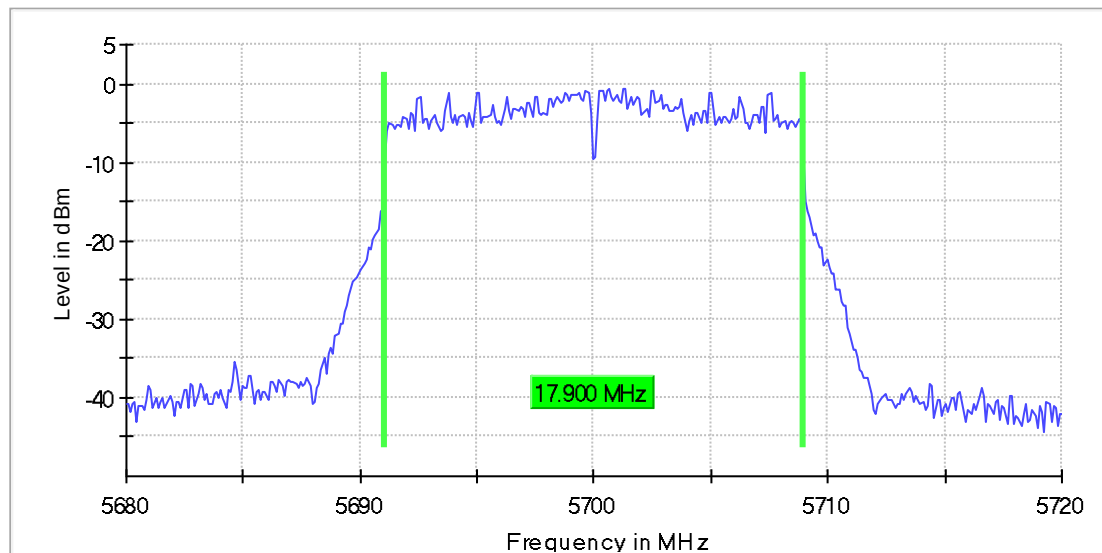
Test according to FCC title 47 part 15 §15.407(a),(e),

6 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5700.000000	17.900000	---	---	5691.050000	5708.950000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5700.000000	-0.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.68000 GHz	5.68000 GHz
Stop Frequency	5.72000 GHz	5.72000 GHz
Span	40.000 MHz	40.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	94.810 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 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
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB

Run	31 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.09 dB	0.30 dB

Occupied Channel Bandwidth 99% (5700 MHz; 20.000 dBm; 20 MHz)

Customized settings.

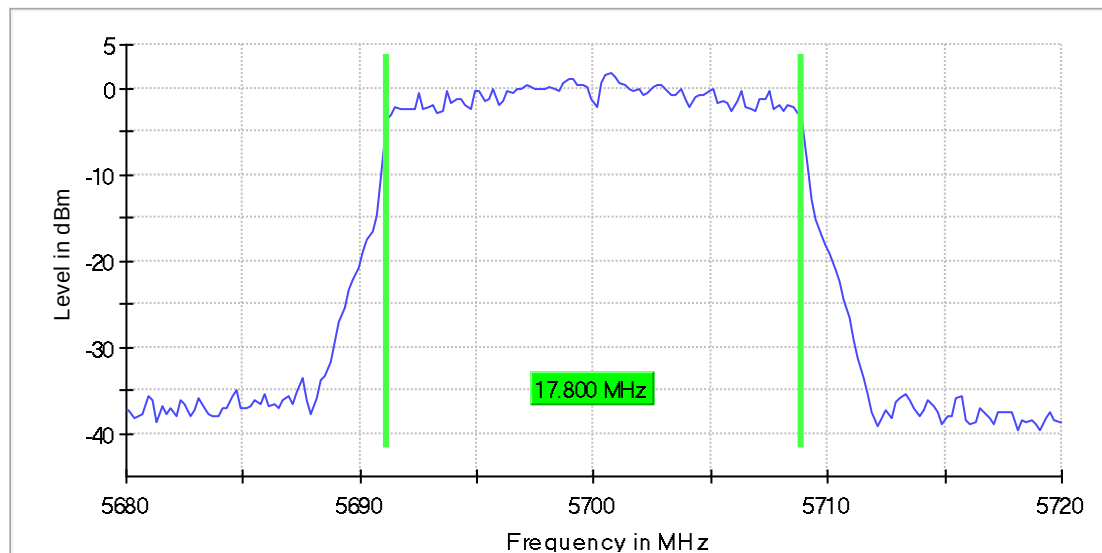
Test according to FCC title 47 part 15 §15.407(a),(e),

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5700.000000	17.800000	---	---	5691.100000	5708.900000

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

DUT Frequency (MHz)	Result
5700.000000	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.68000 GHz	5.68000 GHz
Stop Frequency	5.72000 GHz	5.72000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	<= 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	47.405 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	12 / max. 150	max. 150
Stable	1 / 1	1

Max Stable Difference	0.09 dB	0.30 dB
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Band Edge high (5700 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b),

Result

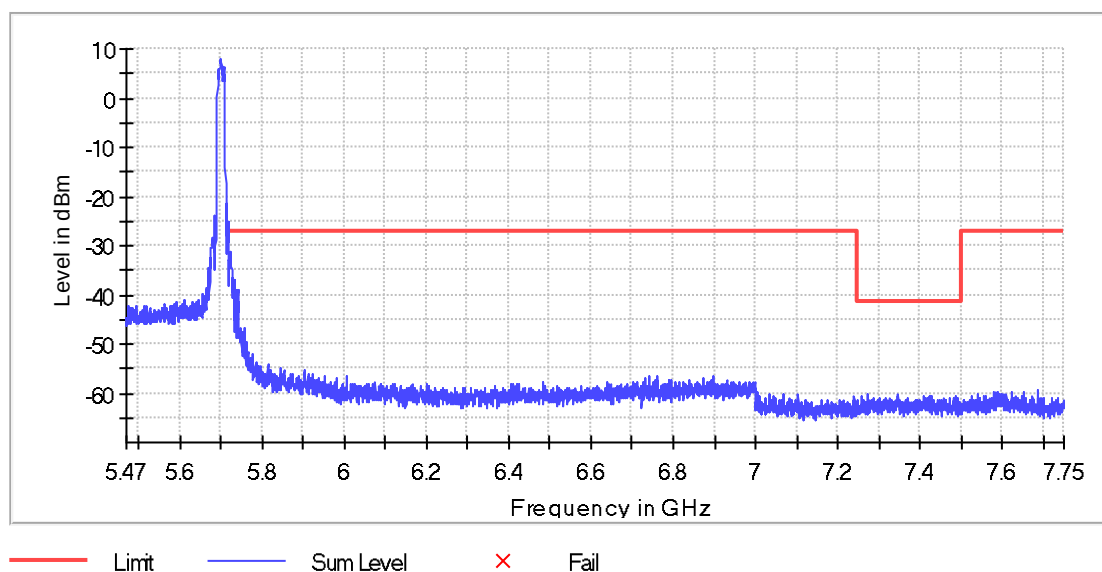
DUT Frequency (MHz)	Result
5700.000000	PASS

Inband Peak

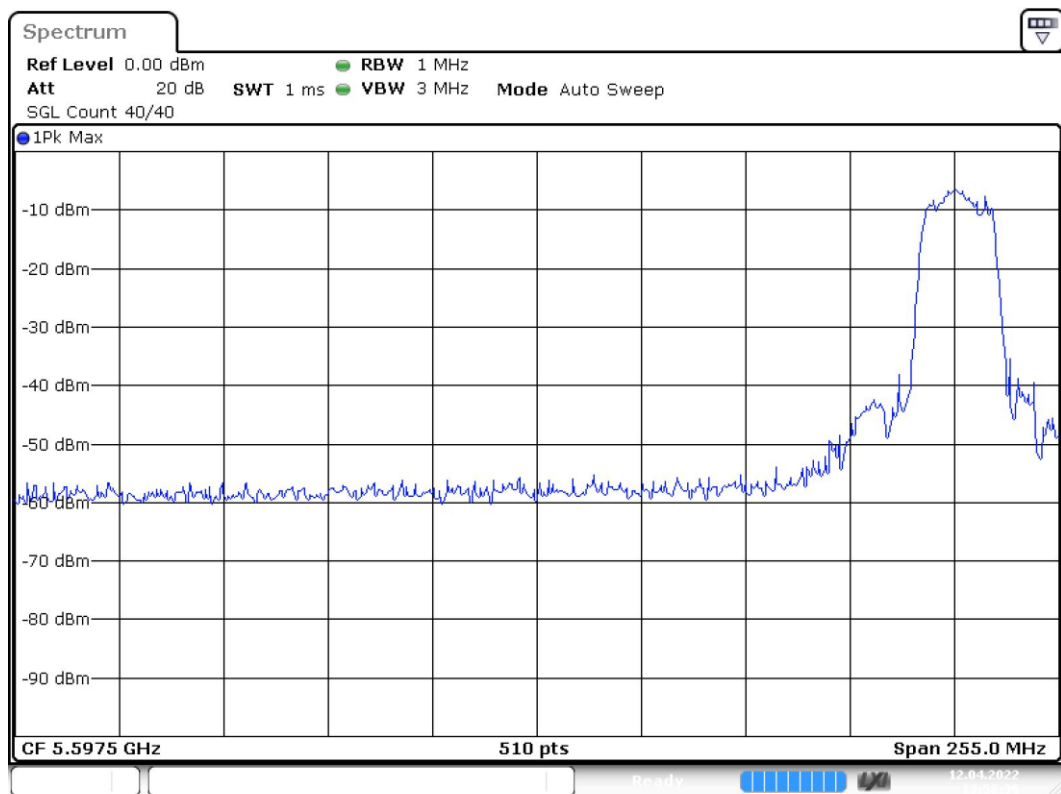
Frequency (MHz)	Level (dBm)
5699.750000	7.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5725.250000	-34.2	7.2	-27.0	PASS
5725.750000	-34.3	7.3	-27.0	PASS
5726.250000	-35.1	8.1	-27.0	PASS
5729.250000	-36.5	9.5	-27.0	PASS
5731.250000	-36.9	9.9	-27.0	PASS
5732.750000	-37.1	10.1	-27.0	PASS
5727.750000	-37.3	10.3	-27.0	PASS
5726.750000	-37.4	10.4	-27.0	PASS
5727.250000	-37.6	10.6	-27.0	PASS
5728.250000	-37.7	10.7	-27.0	PASS
5730.250000	-37.7	10.7	-27.0	PASS
5739.250000	-39.1	12.1	-27.0	PASS
5741.250000	-39.1	12.1	-27.0	PASS
5729.750000	-39.3	12.3	-27.0	PASS
5730.750000	-39.4	12.4	-27.0	PASS

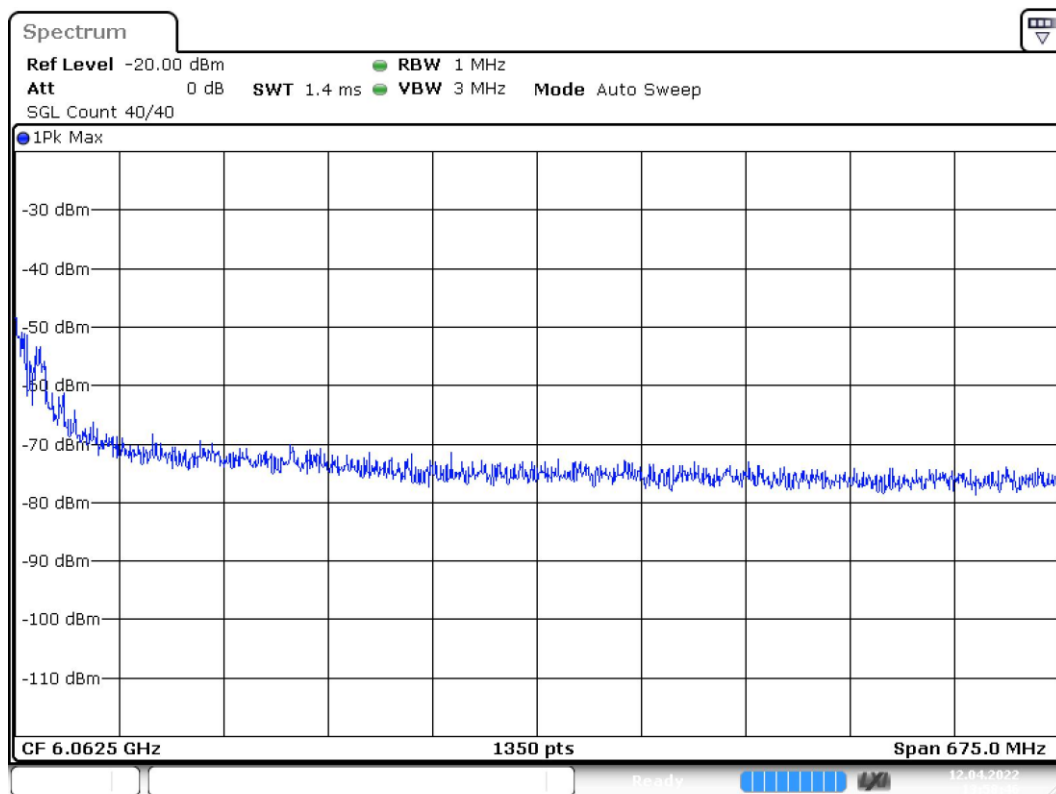


Band Edge Connector 1_0



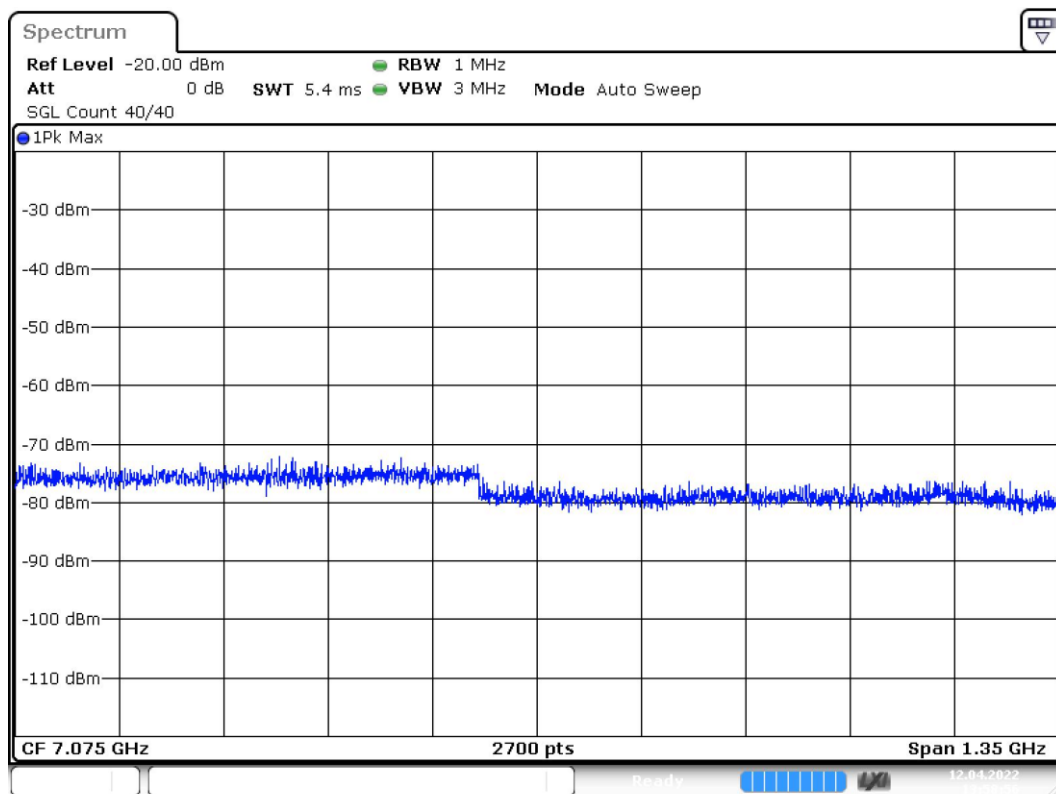
Date: 12.APR.2022 13:58:39

Band Edge Connector 1_1



Date: 12.APR.2022 13:58:46

Band Edge Connector 1_2



Date: 12.APR.2022 13:58:56

Measurement 1

Setting	Instrument Value	Target Value
Start Frequency	5.47000 GHz	5.47000 GHz
Stop Frequency	5.72500 GHz	5.72500 GHz
Span	255.000 MHz	255.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	510	~ 510
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	40	40
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	1 / max. 1	max. 1
Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.50 dB

Measurement 2

Setting	Instrument Value	Target Value
Start Frequency	5.72500 GHz	5.72500 GHz
Stop Frequency	6.40000 GHz	6.40000 GHz
Span	675.000 MHz	675.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz

SweepPoints	1350	~ 1350
SweepTime	1.350 ms	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	40	40
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	1 / max. 1	max. 1
Stable	0 / 1	1
Max Stable Difference	0.00 dB	0.50 dB