

Summary

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Emission Bandwidth 26 dB	5255.000	30.0	10.000000	PASS
RF output power	5255.000	30.0	10.000000	PASS
Power Spectral Density	5255.000	30.0	10.000000	PASS
Occupied Channel Bandwidth 99%	5255.000	30.0	10.000000	PASS
Frequency stability	5255.000	30.0	10.000000	PASS
Tx Spurious Emission	5255.000	30.0	10.000000	PASS
Emissions in restricted frequency bands (Average)	5255.000	30.0	10.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5255.000	30.0	10.000000	PASS
Emission Bandwidth 26 dB	5300.000	30.0	10.000000	PASS
RF output power	5300.000	30.0	10.000000	PASS
Power Spectral Density	5300.000	30.0	10.000000	PASS
Occupied Channel Bandwidth 99%	5300.000	30.0	10.000000	PASS
Tx Spurious Emission	5300.000	30.0	10.000000	PASS
Emissions in restricted frequency bands (Average)	5300.000	30.0	10.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5300.000	30.0	10.000000	PASS
Emission Bandwidth 26 dB	5340.000	30.0	10.000000	PASS
RF output power	5340.000	30.0	10.000000	PASS
Power Spectral Density	5340.000	30.0	10.000000	PASS
Occupied Channel Bandwidth 99%	5340.000	30.0	10.000000	PASS
Frequency stability	5340.000	30.0	10.000000	PASS
Tx Spurious Emission	5340.000	30.0	10.000000	PASS
Emissions in restricted frequency bands (Average)	5340.000	30.0	10.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5340.000	30.0	10.000000	PASS
Emission Bandwidth 26 dB	5260.000	30.0	20.000000	PASS
RF output power	5260.000	30.0	20.000000	PASS
Power Spectral Density	5260.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5260.000	30.0	20.000000	PASS
Tx Spurious Emission	5260.000	30.0	20.000000	PASS
Emissions in restricted frequency bands (Average)	5260.000	30.0	20.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5260.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5300.000	30.0	20.000000	PASS
RF output power	5300.000	30.0	20.000000	PASS
Power Spectral Density	5300.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5300.000	30.0	20.000000	PASS
Tx Spurious Emission	5300.000	30.0	20.000000	PASS
Emissions in restricted frequency bands (Average)	5300.000	30.0	20.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5300.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5335.000	30.0	20.000000	PASS
RF output power	5335.000	30.0	20.000000	PASS
Power Spectral Density	5335.000	30.0	20.000000	PASS
Occupied Channel Bandwidth 99%	5335.000	30.0	20.000000	PASS
Tx Spurious Emission	5335.000	30.0	20.000000	PASS
Emissions in restricted frequency bands (Average)	5335.000	30.0	20.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5335.000	30.0	20.000000	PASS
Emission Bandwidth 26 dB	5265.000	30.0	30.000000	PASS
RF output power	5265.000	30.0	30.000000	PASS
Power Spectral Density	5265.000	30.0	30.000000	PASS
Occupied Channel Bandwidth 99%	5265.000	30.0	30.000000	PASS
Tx Spurious Emission	5265.000	30.0	30.000000	PASS
Emissions in restricted frequency bands (Average)	5265.000	30.0	30.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5265.000	30.0	30.000000	PASS
Emission Bandwidth 26 dB	5300.000	30.0	30.000000	PASS
RF output power	5300.000	30.0	30.000000	PASS
Power Spectral Density	5300.000	30.0	30.000000	PASS
Occupied Channel Bandwidth 99%	5300.000	30.0	30.000000	PASS
Tx Spurious Emission	5300.000	30.0	30.000000	PASS
Emissions in restricted frequency bands (Average)	5300.000	30.0	30.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5300.000	30.0	30.000000	PASS
Emission Bandwidth 26 dB	5330.000	30.0	30.000000	PASS
RF output power	5330.000	30.0	30.000000	PASS
Power Spectral Density	5330.000	30.0	30.000000	PASS

Test	Frequency (MHz)	Nominal Power (dBm)	Nominal Bandwidth (MHz)	Result
Occupied Channel Bandwidth 99%	5330.000	30.0	30.000000	PASS
Tx Spurious Emission	5330.000	30.0	30.000000	PASS
Emissions in restricted frequency bands (Average)	5330.000	30.0	30.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5330.000	30.0	30.000000	PASS
Emission Bandwidth 26 dB	5270.000	30.0	40.000000	PASS
RF output power	5270.000	30.0	40.000000	PASS
Power Spectral Density	5270.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5270.000	30.0	40.000000	PASS
Tx Spurious Emission	5270.000	30.0	40.000000	PASS
Emissions in restricted frequency bands (Average)	5270.000	30.0	40.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5270.000	30.0	40.000000	PASS
Emission Bandwidth 26 dB	5300.000	30.0	40.000000	PASS
RF output power	5300.000	30.0	40.000000	PASS
Power Spectral Density	5300.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5300.000	30.0	40.000000	PASS
Tx Spurious Emission	5300.000	30.0	40.000000	PASS
Emissions in restricted frequency bands (Average)	5300.000	30.0	40.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5300.000	30.0	40.000000	PASS
Emission Bandwidth 26 dB	5325.000	30.0	40.000000	PASS
RF output power	5325.000	30.0	40.000000	PASS
Power Spectral Density	5325.000	30.0	40.000000	PASS
Occupied Channel Bandwidth 99%	5325.000	30.0	40.000000	PASS
Tx Spurious Emission	5325.000	30.0	40.000000	PASS
Emissions in restricted frequency bands (Average)	5325.000	30.0	40.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5325.000	30.0	40.000000	PASS
Emission Bandwidth 26 dB	5275.000	30.0	50.000000	PASS
RF output power	5275.000	30.0	50.000000	PASS
Power Spectral Density	5275.000	30.0	50.000000	PASS
Occupied Channel Bandwidth 99%	5275.000	30.0	50.000000	PASS
Tx Spurious Emission	5275.000	30.0	50.000000	PASS
Emissions in restricted frequency bands (Average)	5275.000	30.0	50.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5275.000	30.0	50.000000	PASS
Emission Bandwidth 26 dB	5300.000	30.0	50.000000	PASS
RF output power	5300.000	30.0	50.000000	PASS
Power Spectral Density	5300.000	30.0	50.000000	PASS
Occupied Channel Bandwidth 99%	5300.000	30.0	50.000000	PASS
Tx Spurious Emission	5300.000	30.0	50.000000	PASS
Emissions in restricted frequency bands (Average)	5300.000	30.0	50.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5300.000	30.0	50.000000	PASS
Emission Bandwidth 26 dB	5320.000	30.0	50.000000	PASS
RF output power	5320.000	30.0	50.000000	PASS
Power Spectral Density	5320.000	30.0	50.000000	PASS
Occupied Channel Bandwidth 99%	5320.000	30.0	50.000000	PASS
Tx Spurious Emission	5320.000	30.0	50.000000	PASS
Emissions in restricted frequency bands (Average)	5320.000	30.0	50.000000	PASS
Emissions in restricted frequency bands (Average)(2)	5320.000	30.0	50.000000	PASS

Emission Bandwidth 26 dB (5255 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

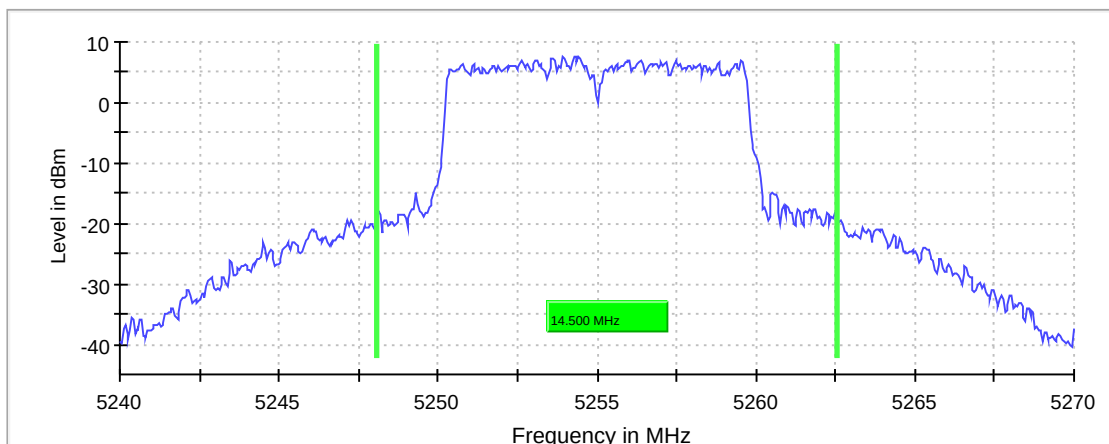
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5255.000000	14.500000	---	---	5248.075000	5262.575000

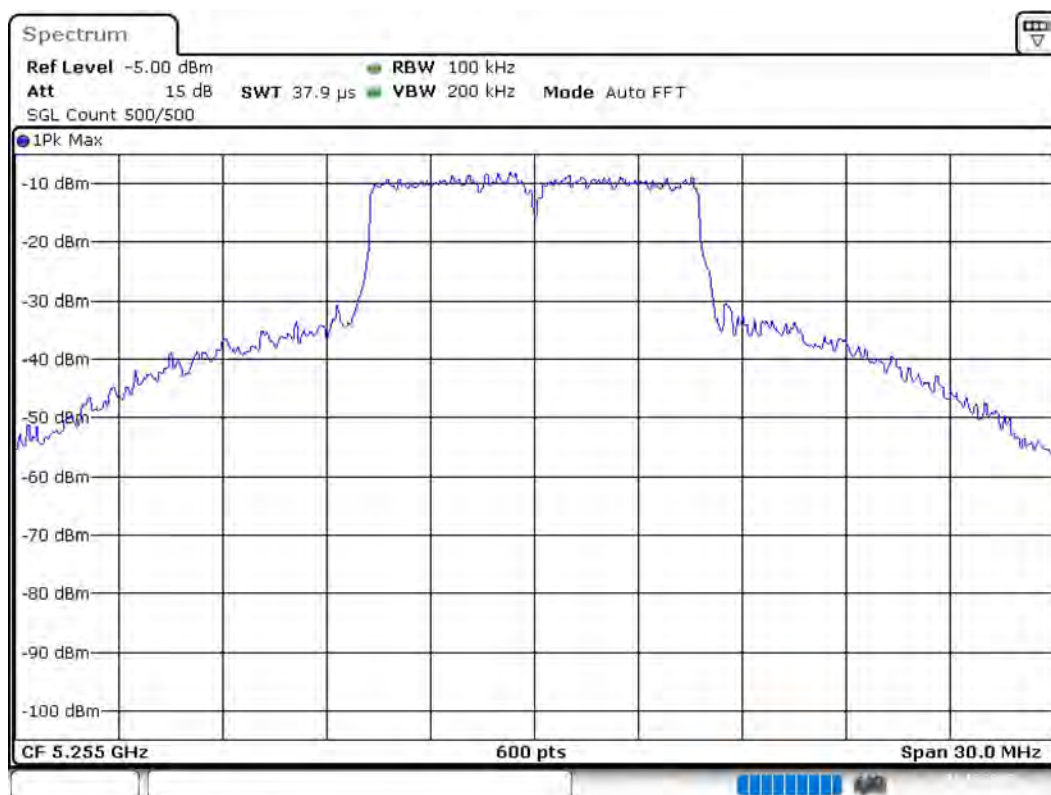
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5255.000000	7.6	PASS

26 dB Bandwidth



Bandwidth



Date: 1.NOV.2019 23:10:02

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.24000 GHz	5.24000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	30.000 MHz	30.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	200.000 kHz	>= 120.000 kHz
SweepPoints	600	~ 600
SweepTime	37.891 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5255 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5255.000000	25.6	27.0	25.6	98.362	PASS

Power Spectral Density (5255 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5255.000000	5256.386139	10.875	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	10.000 MHz	10.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 20
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5255 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

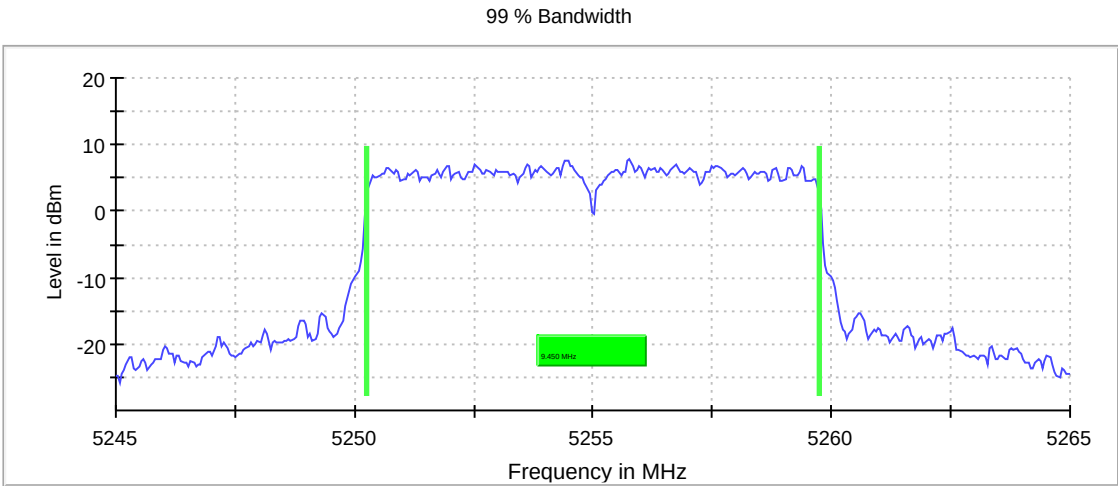
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

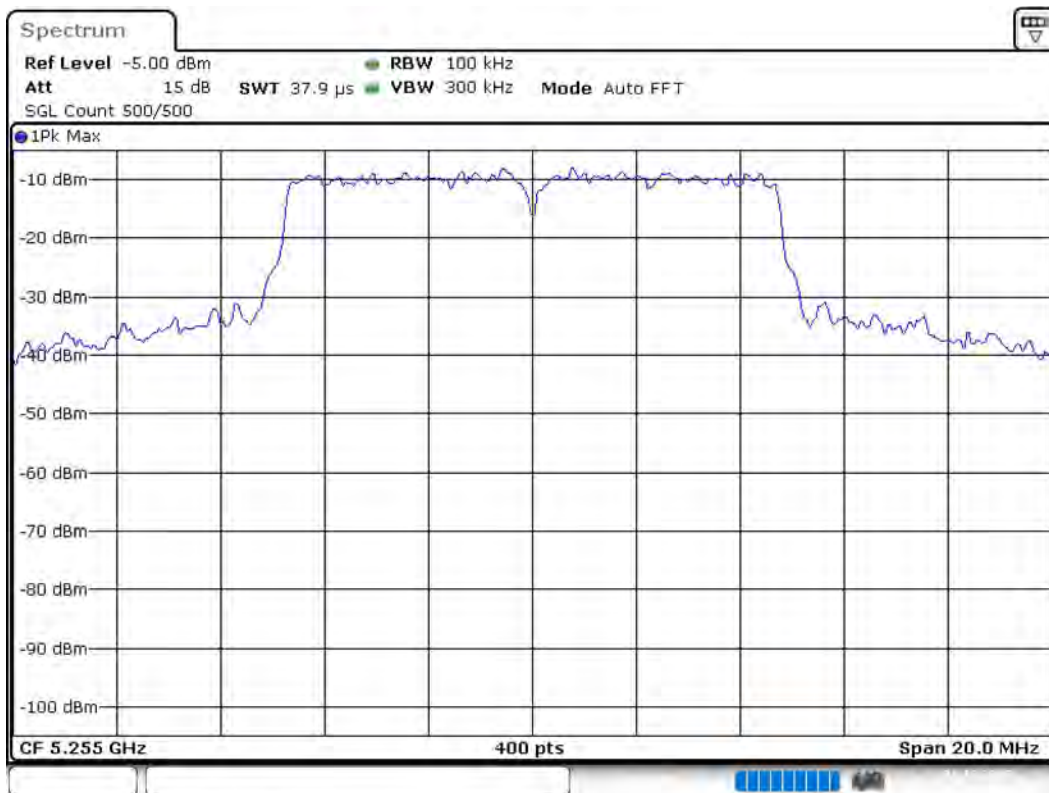
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5255.000000	9.450000	---	---	5250.275000	5259.725000

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

DUT Frequency (MHz)	Result
5255.000000	PASS



Bandwidth



Date: 1.NOV.2019 23:10:54

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.24500 GHz	5.24500 GHz
Stop Frequency	5.26500 GHz	5.26500 GHz
Span	20.000 MHz	20.000 MHz
RBW	100.000 kHz	≥ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	37.891 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Frequency stability (5255 MHz; _____ (30 dBm); 10 MHz)

Test according to FCC title 47 part 15 §15.407(g), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 A.3 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 5ppm

Result

DUT Frequency (MHz)	Frequency (MHz)	Difference (ppm)	Frequency Difference (kHz)	Limit Min (MHz)	Limit Max (MHz)	Result
5255.000000	5255.002000	0.381	2.000000	---	---	PASS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	10.000 MHz	10.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	10001	~ 10001
SweepTime	568.782 µs	AUTO
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 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	1.00 dB	1.00 dB
Run	9 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.78 dB	1.00 dB

Tx Spurious Emission (5255 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5255.000000	PASS

Final measurements

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

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-46.0	0.1	-45.9
5095.250000	-32.3	5.3	-27.0
5094.250000	-32.3	5.3	-27.0
5096.250000	-32.3	5.3	-27.0
5093.750000	-32.7	5.7	-27.0
5096.750000	-32.9	5.9	-27.0
5097.250000	-33.0	6.0	-27.0
65.325000	-66.0	6.1	-59.9
5091.250000	-33.1	6.1	-27.0
73.275000	-66.1	6.2	-59.9
67.425000	-66.1	6.2	-59.9
62.425000	-66.2	6.3	-59.9
73.675000	-66.2	6.3	-59.9
5099.250000	-33.4	6.4	-27.0
5095.750000	-33.4	6.4	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5255 MHz; (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5255.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5076.750000	-39.6	-50.2	-41.2	9.0	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5076.750000	-39.6	-1.6	-41.2
4934.250000	-42.2	1.0	-41.2
5074.250000	-42.2	1.0	-41.2
5096.750000	-42.2	1.0	-41.2
5098.250000	-42.4	1.2	-41.2
5074.750000	-42.5	1.3	-41.2
4937.250000	-42.8	1.6	-41.2
5073.750000	-43.1	1.9	-41.2
5413.750000	-43.1	1.9	-41.2
5413.250000	-43.2	2.0	-41.2
5093.250000	-43.4	2.2	-41.2
5412.750000	-43.4	2.2	-41.2
5095.750000	-43.5	2.3	-41.2
5435.250000	-43.5	2.3	-41.2
5435.750000	-43.5	2.3	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	≤ 300.000 Hz
VBW	1.000 kHz	≥ 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5255 MHz; (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5255.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5095.250000	-37.6	-45.6	-41.2	4.4	PASS
5411.750000	-39.7	-46.4	-41.2	5.2	PASS
5413.750000	-39.4	-46.3	-41.2	5.1	PASS
5418.750000	-39.4	-46.6	-41.2	5.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5095.250000	-37.6	-3.6	-41.2
5093.250000	-37.6	-3.6	-41.2
5094.750000	-38.4	-2.8	-41.2
5099.750000	-38.9	-2.3	-41.2
5418.750000	-39.4	-1.8	-41.2
5096.750000	-39.4	-1.8	-41.2
5413.750000	-39.4	-1.8	-41.2
5090.750000	-39.4	-1.8	-41.2
5096.250000	-39.6	-1.6	-41.2
5411.750000	-39.7	-1.5	-41.2
5416.750000	-39.9	-1.3	-41.2
5093.750000	-40.1	-1.1	-41.2
5095.750000	-40.3	-0.9	-41.2
5415.250000	-40.4	-0.8	-41.2
5092.750000	-40.6	-0.6	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5300 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

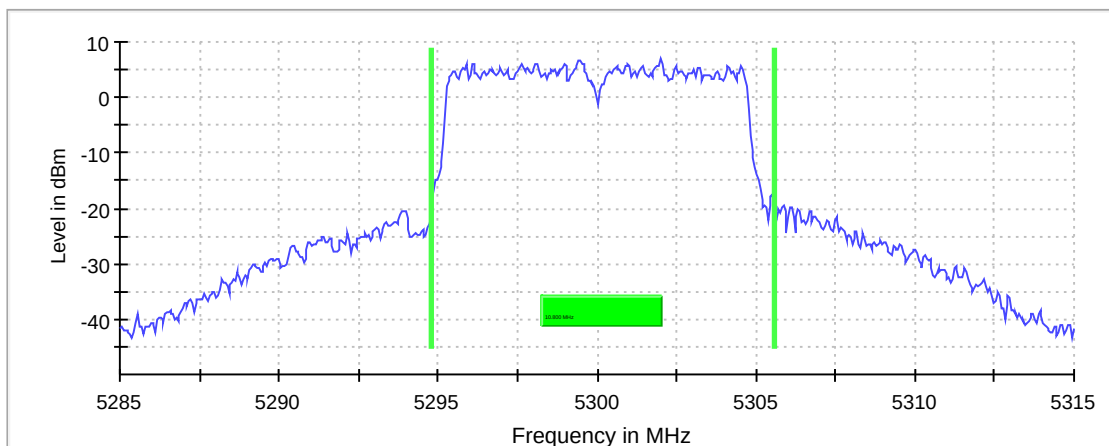
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	10.800000	---	---	5294.775000	5305.575000

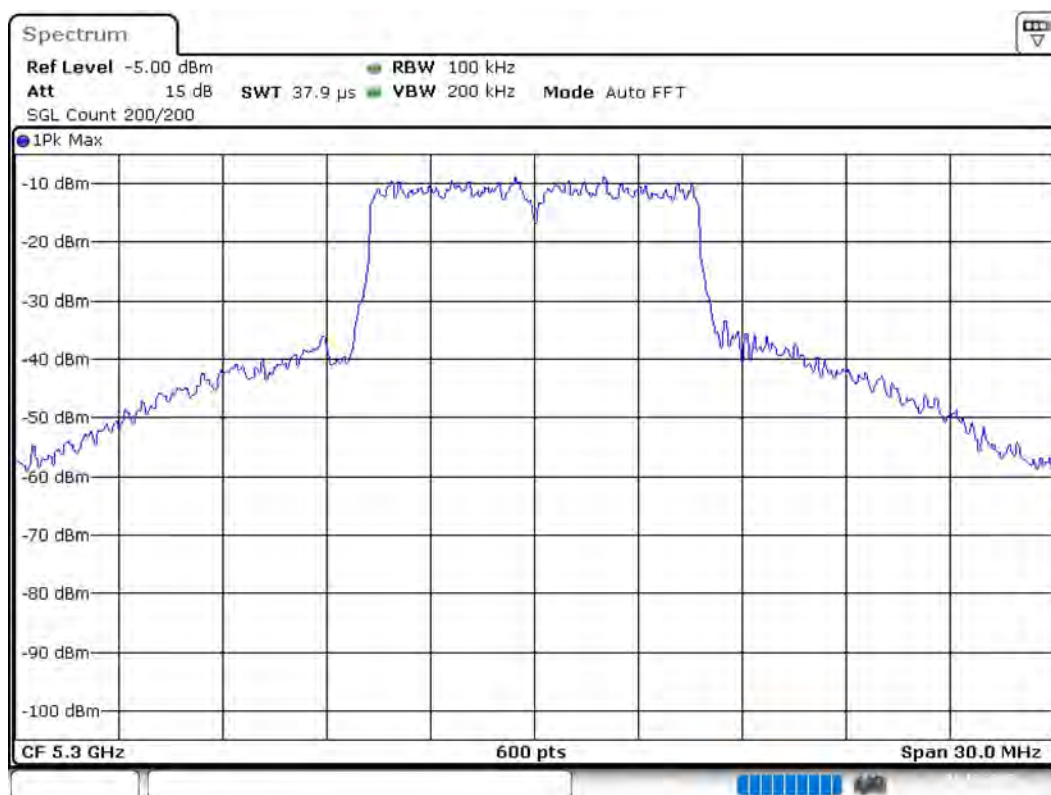
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	7.0	PASS

26 dB Bandwidth



Bandwidth



Date: 1.NOV.2019 23:27:11

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.28500 GHz	5.28500 GHz
Stop Frequency	5.31500 GHz	5.31500 GHz
Span	30.000 MHz	30.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	200.000 kHz	>= 120.000 kHz
SweepPoints	600	~ 600
SweepTime	37.891 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5300 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5300.000000	25.1	27.0	25.1	98.361	PASS

Power Spectral Density (5300 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5301.386139	10.259	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.29500 GHz	5.29500 GHz
Stop Frequency	5.30500 GHz	5.30500 GHz
Span	10.000 MHz	10.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 20
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5300 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

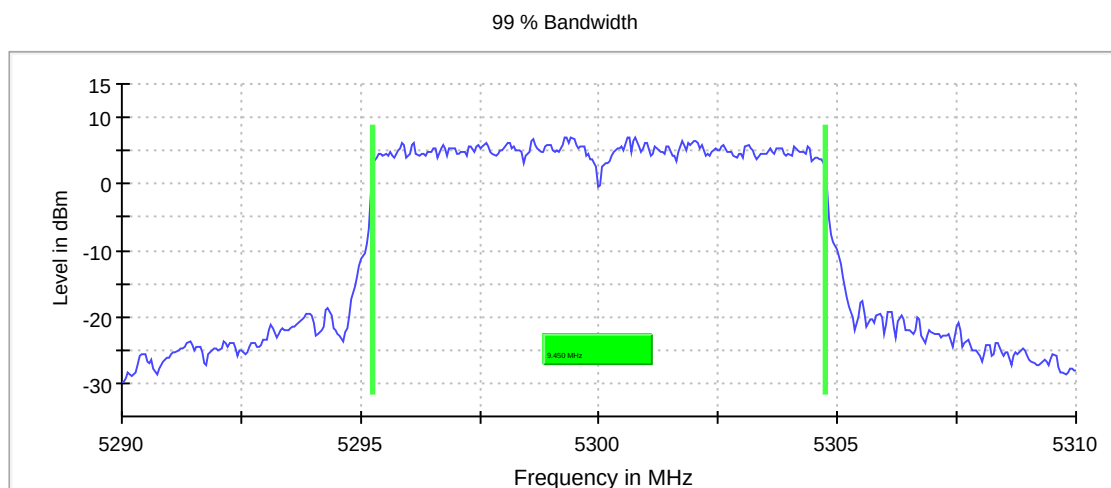
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

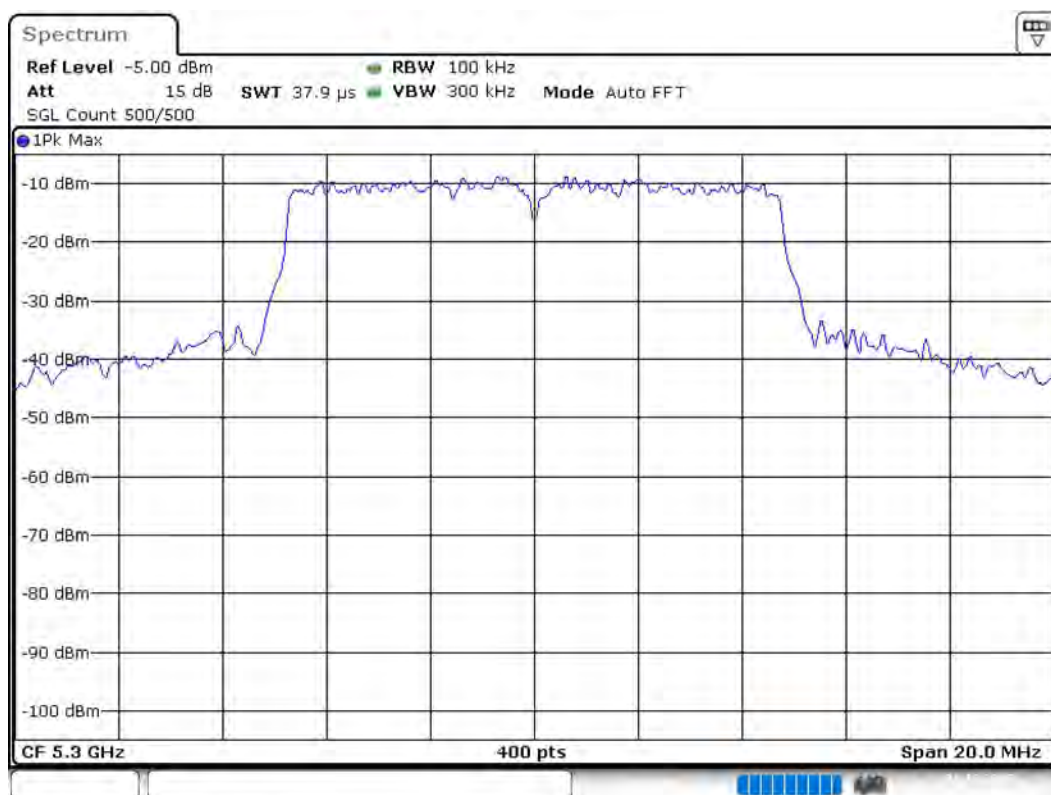
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	9.450000	---	---	5295.275000	5304.725000

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

DUT Frequency (MHz)	Result
5300.000000	PASS



Bandwidth



Date: 1.NOV.2019 23:28:02

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.29000 GHz	5.29000 GHz
Stop Frequency	5.31000 GHz	5.31000 GHz
Span	20.000 MHz	20.000 MHz
RBW	100.000 kHz	≥ 100.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	400	~ 400
SweepTime	37.891 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5300 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-47.6	1.7	-45.9
57.625000	-65.6	5.7	-59.9
36.025000	-65.8	5.9	-59.9
30.075000	-66.0	6.1	-59.9
65.275000	-66.1	6.2	-59.9
86.725000	-66.1	6.2	-59.9
5141.250000	-33.3	6.3	-27.0
81.975000	-66.2	6.3	-59.9
32.825000	-66.3	6.4	-59.9
75.725000	-66.3	6.4	-59.9
44.525000	-66.4	6.5	-59.9
85.375000	-66.4	6.5	-59.9
5144.250000	-33.6	6.6	-27.0
52.425000	-66.6	6.7	-59.9
79.125000	-66.6	6.7	-59.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5300 MHz; (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5136.750000	-39.0	-51.1	-41.2	9.9	PASS
5357.750000	-39.8	-47.1	-41.2	5.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5136.750000	-39.0	-2.2	-41.2
5357.750000	-39.8	-1.4	-41.2
5359.250000	-39.8	-1.4	-41.2
5352.750000	-40.2	-1.0	-41.2
5358.250000	-40.5	-0.7	-41.2
5356.250000	-40.5	-0.7	-41.2
5352.250000	-40.7	-0.5	-41.2
5136.250000	-41.4	0.2	-41.2
5120.250000	-41.4	0.2	-41.2
5358.750000	-41.4	0.2	-41.2
5360.250000	-41.5	0.3	-41.2
5119.750000	-41.5	0.3	-41.2
4982.250000	-41.5	0.3	-41.2
5355.250000	-41.9	0.7	-41.2
5354.750000	-42.1	0.9	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5300 MHz; (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
4980.750000	-41.2	-50.9	-41.2	9.7	PASS
5352.750000	-38.0	-47.4	-41.2	6.2	PASS
5356.750000	-38.8	-47.3	-41.2	6.1	PASS
5459.250000	-41.0	-47.6	-41.2	6.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5352.750000	-38.0	-3.2	-41.2
5356.750000	-38.8	-2.4	-41.2
5356.250000	-39.5	-1.7	-41.2
5357.750000	-39.7	-1.5	-41.2
5357.250000	-40.8	-0.4	-41.2
5359.250000	-41.0	-0.2	-41.2
5459.250000	-41.0	-0.2	-41.2
4980.750000	-41.2	0.0	-41.2
5355.750000	-41.2	0.0	-41.2
5353.750000	-41.3	0.1	-41.2
4981.250000	-41.4	0.2	-41.2
5354.250000	-41.5	0.3	-41.2
4979.250000	-41.6	0.4	-41.2
4979.750000	-41.6	0.4	-41.2
5458.250000	-41.9	0.7	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5340 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

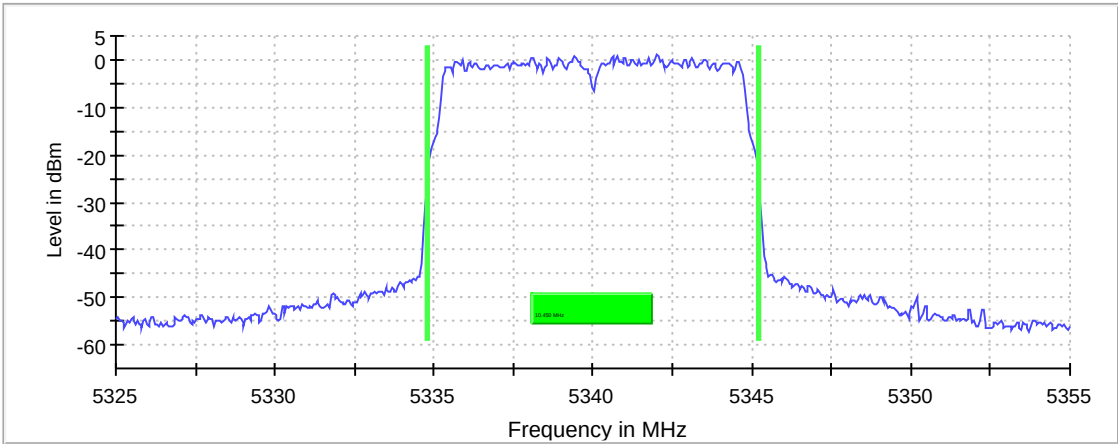
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5340.000000	10.450000	---	---	5334.775000	5345.225000

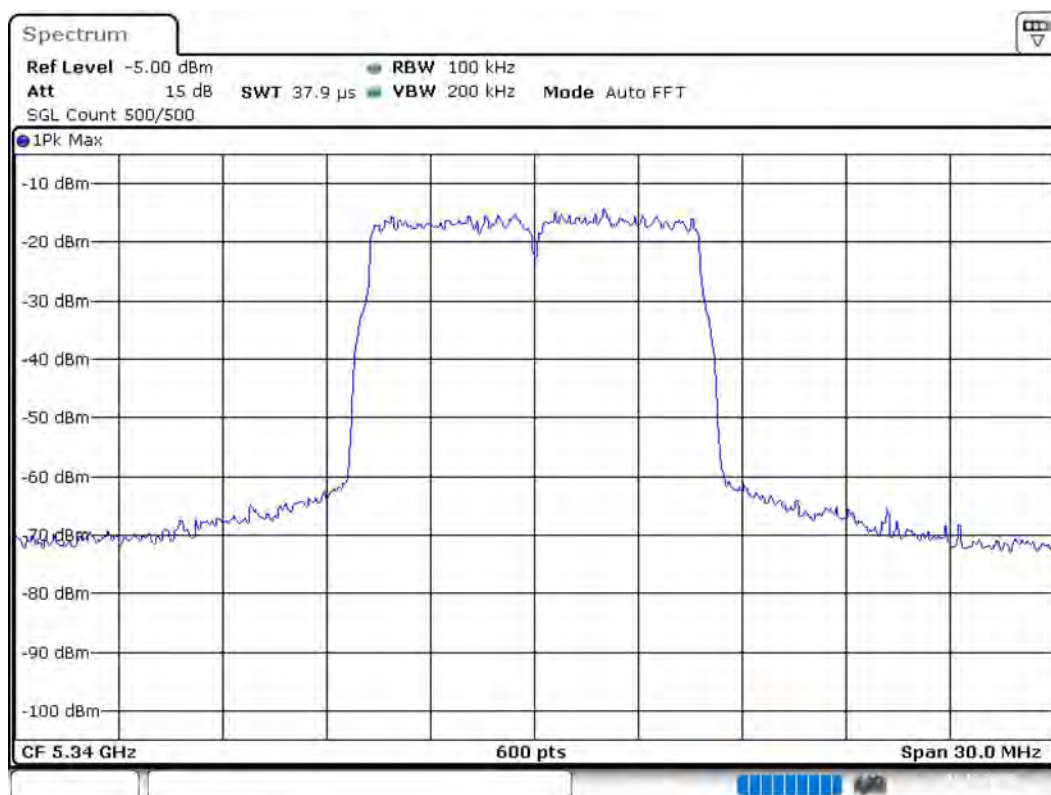
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5340.000000	1.2	PASS

26 dB Bandwidth



Bandwidth



Date: 1.NOV.2019 23:44:49

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.32500 GHz	5.32500 GHz
Stop Frequency	5.35500 GHz	5.35500 GHz
Span	30.000 MHz	30.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	200.000 kHz	>= 120.000 kHz
SweepPoints	600	~ 600
Sweeptime	37.891 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5340 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5340.000000	19.3	27.0	19.3	98.369	PASS

Power Spectral Density (5340 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5340.000000	5341.386139	5.196	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.33500 GHz	5.33500 GHz
Stop Frequency	5.34500 GHz	5.34500 GHz
Span	10.000 MHz	10.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 20
SweepTime	2.020 ms	2.020 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5340 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

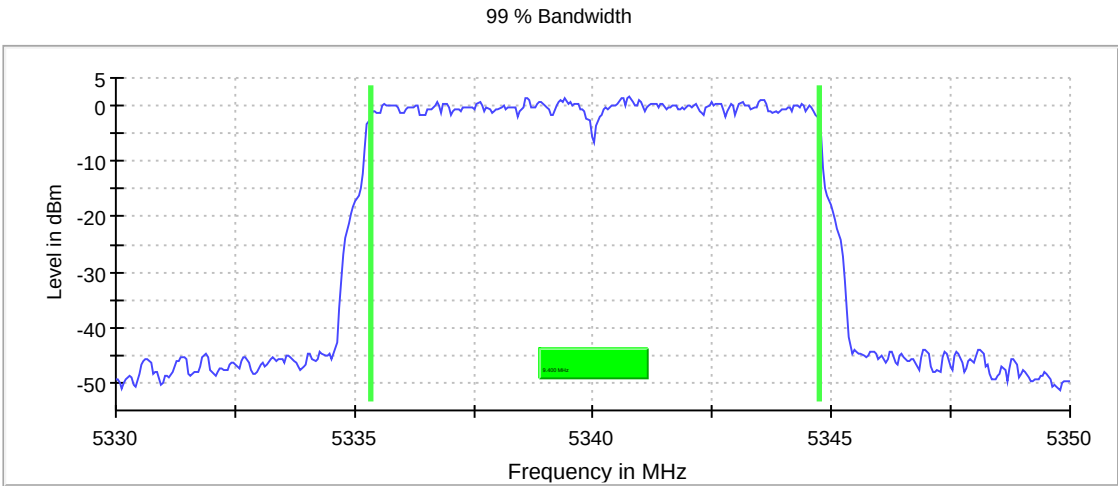
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

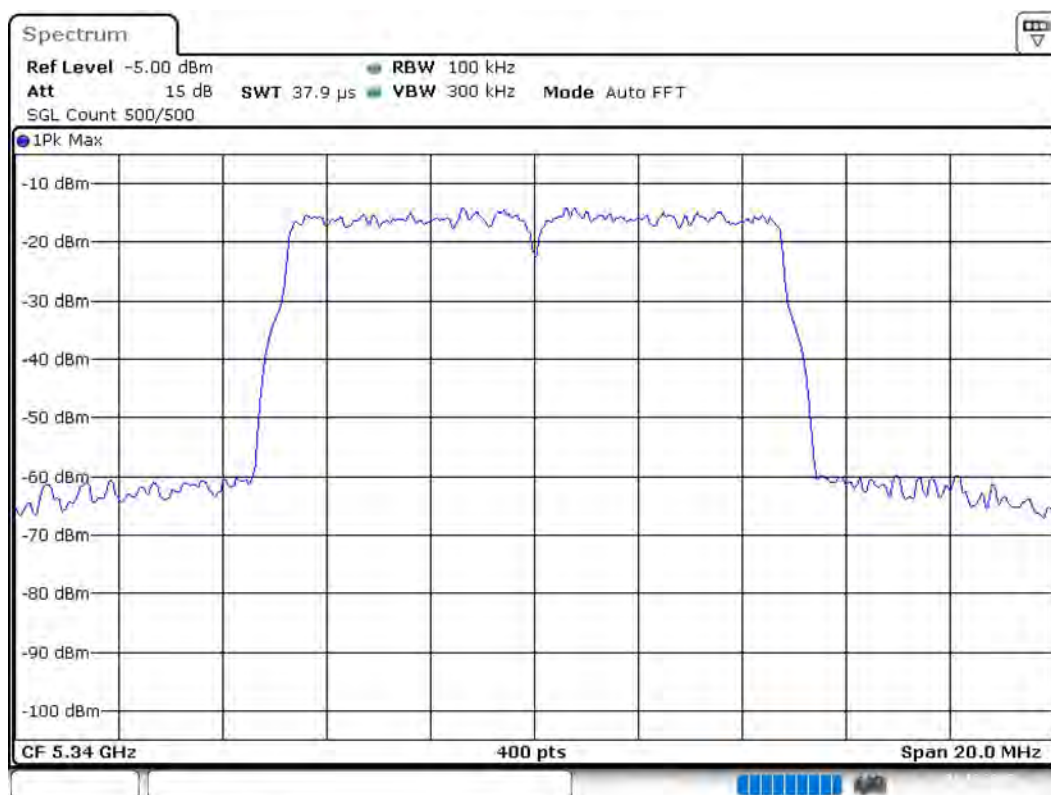
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5340.000000	9.400000	---	---	5335.325000	5344.725000

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

DUT Frequency (MHz)	Result
5340.000000	PASS



Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.33000 GHz	5.33000 GHz
Stop Frequency	5.35000 GHz	5.35000 GHz
Span	20.000 MHz	20.000 MHz
RBW	100.000 kHz	$\geq$ 100.000 kHz
VBW	300.000 kHz	$\geq$ 300.000 kHz
SweepPoints	400	$\sim$ 400
SweepTime	37.891 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Frequency stability (5340 MHz; _____ (30 dBm); 10 MHz)

Test according to FCC title 47 part 15 §15.407(g), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 A.3 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 5ppm

Result

DUT Frequency (MHz)	Frequency (MHz)	Difference (ppm)	Frequency Difference (kHz)	Limit Min (MHz)	Limit Max (MHz)	Result
5340.000000	5340.003000	0.562	2.999500	---	---	PASS

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.33500 GHz	5.33500 GHz
Stop Frequency	5.34500 GHz	5.34500 GHz
Span	10.000 MHz	10.000 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	10001	~ 10001
SweepTime	568.782 µs	AUTO
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 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	1.00 dB	1.00 dB
Run	11 / max. 150	max. 150
Stable	1 / 1	1
Max Stable Difference	0.60 dB	1.00 dB

Tx Spurious Emission (5340 MHz; _____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5340.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-47.2	1.3	-45.9
65.875000	-65.6	5.7	-59.9
81.975000	-66.3	6.4	-59.9
84.725000	-66.3	6.4	-59.9
35.525000	-66.3	6.4	-59.9
38.725000	-66.3	6.4	-59.9
72.025000	-66.3	6.4	-59.9
34.725000	-66.4	6.5	-59.9
59.475000	-66.4	6.5	-59.9
82.525000	-66.4	6.5	-59.9
76.325000	-66.5	6.6	-59.9
65.125000	-66.6	6.7	-59.9
67.875000	-66.6	6.7	-59.9
42.175000	-66.6	6.7	-59.9
71.675000	-66.7	6.8	-59.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5340 MHz; ____ (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5340.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.750000	-18.0	-53.5	-41.2	12.3	PASS
5353.250000	-31.6	-56.3	-41.2	15.1	PASS
5383.250000	-41.1	-50.1	-41.2	8.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.750000	-18.0	-23.2	-41.2
5351.750000	-22.9	-18.3	-41.2
5351.250000	-24.1	-17.1	-41.2
5350.250000	-25.2	-16.0	-41.2
5353.250000	-31.6	-9.6	-41.2
5352.750000	-34.8	-6.4	-41.2
5354.250000	-36.8	-4.4	-41.2
5354.750000	-37.0	-4.2	-41.2
5352.250000	-41.1	-0.1	-41.2
5383.250000	-41.1	-0.1	-41.2
5384.750000	-41.4	0.2	-41.2
5384.250000	-41.5	0.3	-41.2
5387.750000	-42.0	0.8	-41.2
5353.750000	-42.6	1.4	-41.2
5386.250000	-44.4	3.2	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5340 MHz; (30 dBm); 10 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5340.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.250000	-22.8	-53.3	-41.2	12.1	PASS
5353.250000	-35.3	-56.8	-41.2	15.6	PASS
5354.750000	-38.2	-57.6	-41.2	16.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.250000	-22.8	-18.4	-41.2
5350.750000	-26.7	-14.5	-41.2
5351.250000	-28.0	-13.2	-41.2
5353.250000	-35.3	-5.9	-41.2
5352.750000	-36.7	-4.5	-41.2
5354.750000	-38.2	-3.0	-41.2
5355.250000	-38.7	-2.5	-41.2
5351.750000	-38.8	-2.4	-41.2
5353.750000	-42.7	1.5	-41.2
5397.750000	-43.5	2.3	-41.2
5398.250000	-43.6	2.4	-41.2
5352.250000	-43.6	2.4	-41.2
5384.250000	-43.7	2.5	-41.2
5396.250000	-44.1	2.9	-41.2
5355.750000	-44.4	3.2	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5260 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

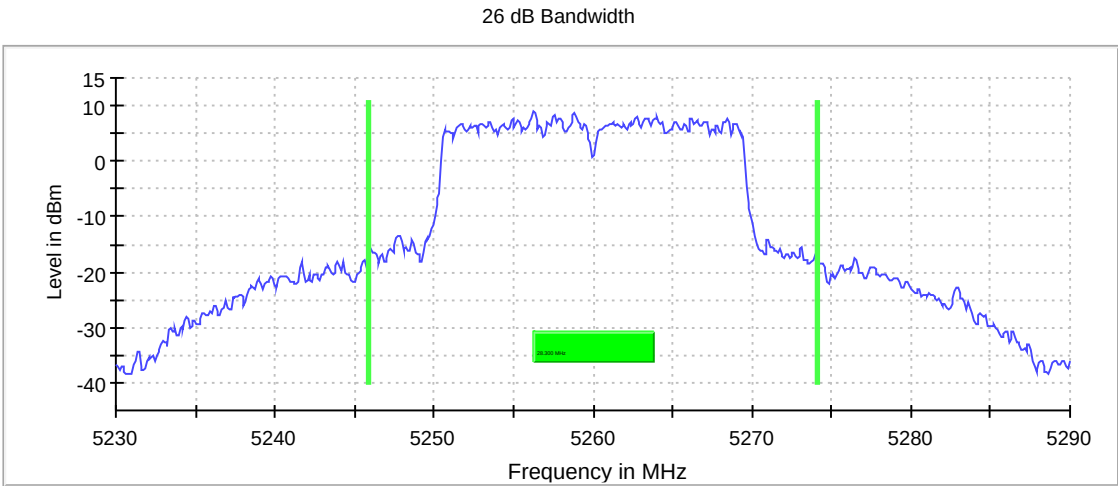
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

26 dB Bandwidth

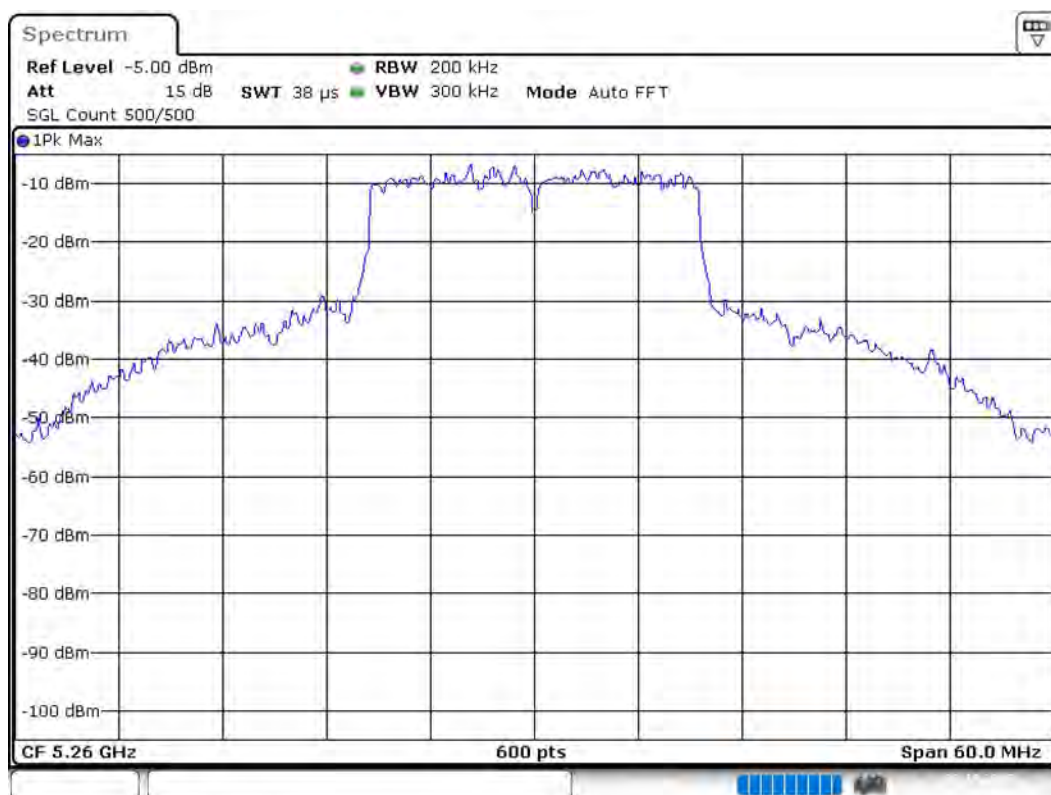
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	28.300000	---	---	5245.850000	5274.150000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5260.000000	8.9	PASS



Bandwidth



Date: 21.NOV.2019 02:25:57

Measurement

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

RF output power (5260 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5260.000000	26.3	27.0	26.3	99.423	PASS

Power Spectral Density (5260 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5260.000000	5261.386139	8.672	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 40
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5260 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

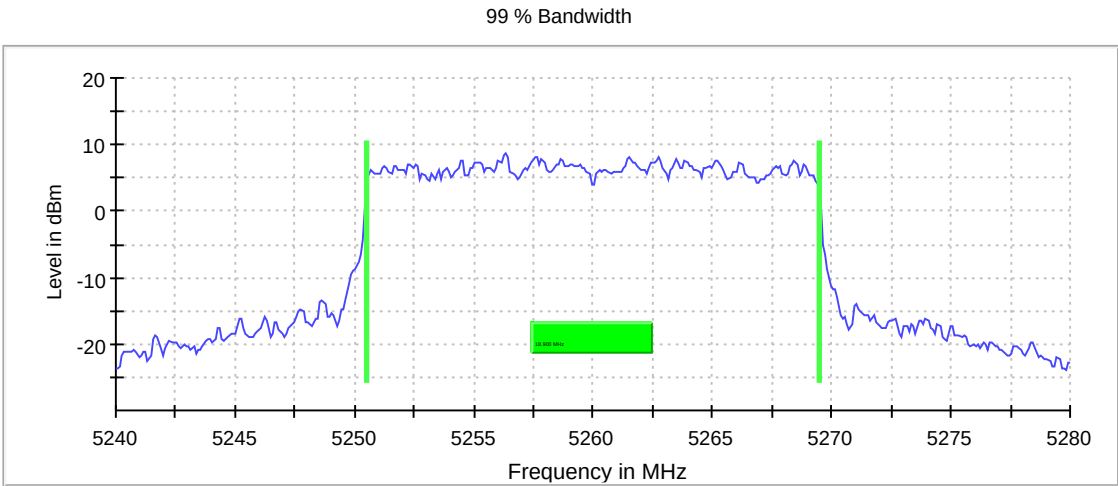
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

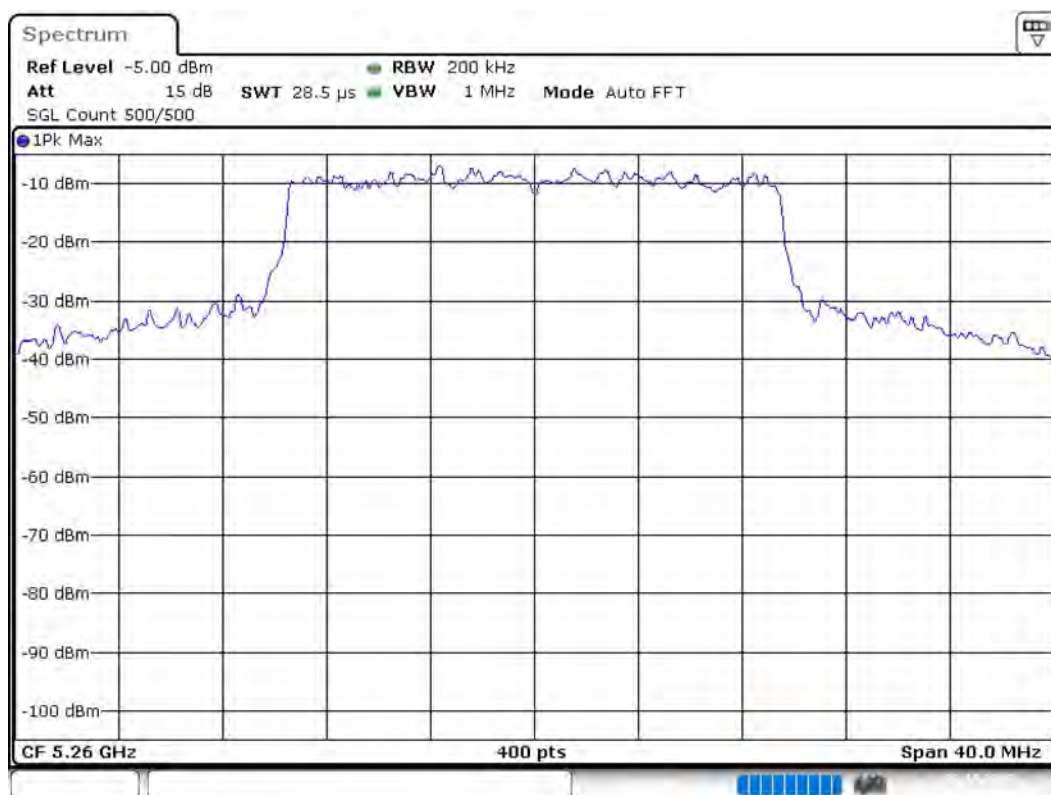
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5260.000000	18.900000	---	---	5250.550000	5269.450000

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

DUT Frequency (MHz)	Result
5260.000000	PASS



Bandwidth



Date: 2.NOV.2019 02:26:53

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	$\geq$ 200.000 kHz
VBW	1.000 MHz	$\geq$ 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5260 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5260.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-47.1	1.2	-45.9
53.775000	-65.6	5.7	-59.9
37.275000	-65.9	6.0	-59.9
87.125000	-66.2	6.3	-59.9
71.925000	-66.3	6.4	-59.9
86.775000	-66.3	6.4	-59.9
64.875000	-66.3	6.4	-59.9
75.075000	-66.4	6.5	-59.9
66.775000	-66.5	6.6	-59.9
79.625000	-66.6	6.7	-59.9
79.825000	-66.6	6.7	-59.9
74.225000	-66.6	6.7	-59.9
38.575000	-66.6	6.7	-59.9
67.175000	-66.7	6.8	-59.9
54.675000	-66.7	6.8	-59.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5260 MHz; (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5260.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5106.250000	-41.5	0.3	-41.2
5106.750000	-41.6	0.4	-41.2
5098.250000	-41.6	0.4	-41.2
5097.750000	-42.2	1.0	-41.2
5096.250000	-44.2	3.0	-41.2
5108.750000	-44.5	3.3	-41.2
5109.250000	-45.0	3.8	-41.2
5416.250000	-45.3	4.1	-41.2
5095.250000	-45.5	4.3	-41.2
5099.750000	-45.7	4.5	-41.2
5105.250000	-45.8	4.6	-41.2
5410.750000	-45.9	4.7	-41.2
4936.250000	-45.9	4.7	-41.2
5095.750000	-46.0	4.8	-41.2
4934.250000	-46.1	4.9	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	≤ 300.000 Hz
VBW	1.000 kHz	≥ 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5260 MHz; (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5260.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5092.750000	-39.5	-48.0	-41.2	6.8	PASS
5106.250000	-39.1	-47.7	-41.2	6.5	PASS
5419.750000	-40.7	-48.6	-41.2	7.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5106.250000	-39.1	-2.1	-41.2
5092.750000	-39.5	-1.7	-41.2
5105.750000	-40.1	-1.1	-41.2
5103.250000	-40.3	-0.9	-41.2
5100.750000	-40.6	-0.6	-41.2
5419.750000	-40.7	-0.5	-41.2
5423.750000	-40.8	-0.4	-41.2
5095.750000	-41.1	-0.1	-41.2
5108.250000	-41.3	0.1	-41.2
5106.750000	-41.4	0.2	-41.2
5107.750000	-41.4	0.2	-41.2
5416.750000	-41.6	0.4	-41.2
5108.750000	-41.6	0.4	-41.2
5107.250000	-41.7	0.5	-41.2
5097.250000	-41.7	0.5	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5300 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

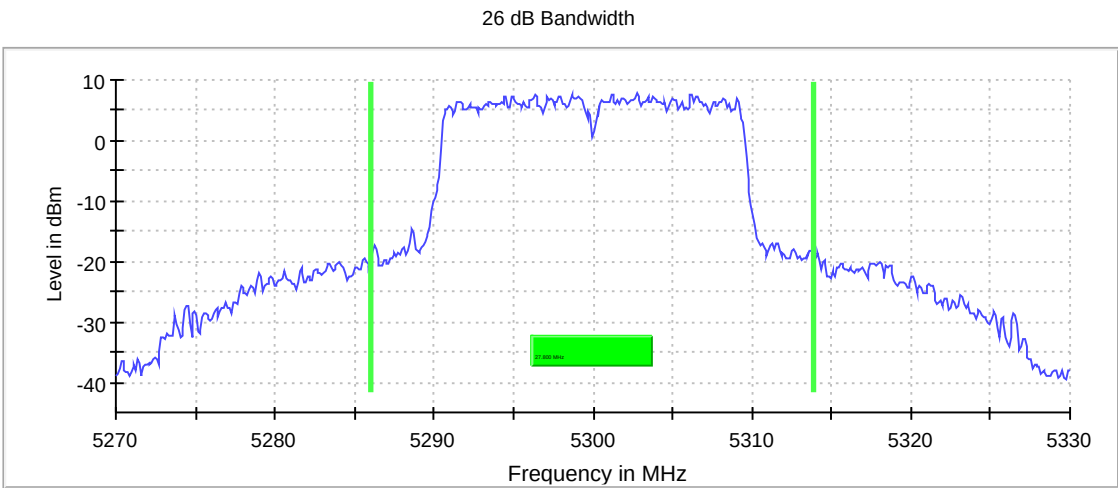
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

26 dB Bandwidth

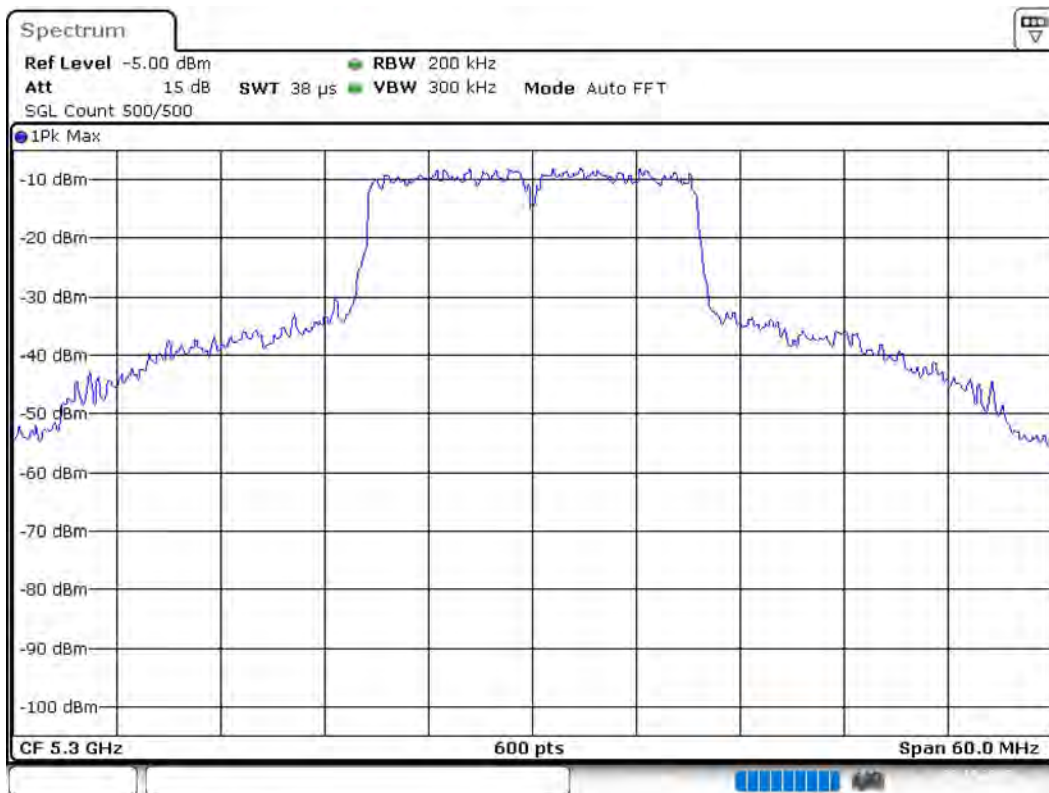
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	27.800000	---	---	5286.050000	5313.850000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	7.7	PASS



Bandwidth



Date: 2.NOV.2019 05:10:00

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.33000 GHz	5.33000 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	300.000 kHz	>= 240.000 kHz
SweepPoints	600	~ 600
SweepTime	37.969 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5300 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5300.000000	26.2	27.0	26.2	99.421	PASS

Power Spectral Density (5300 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5301.386139	9.016	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.29000 GHz	5.29000 GHz
Stop Frequency	5.31000 GHz	5.31000 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 40
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5300 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

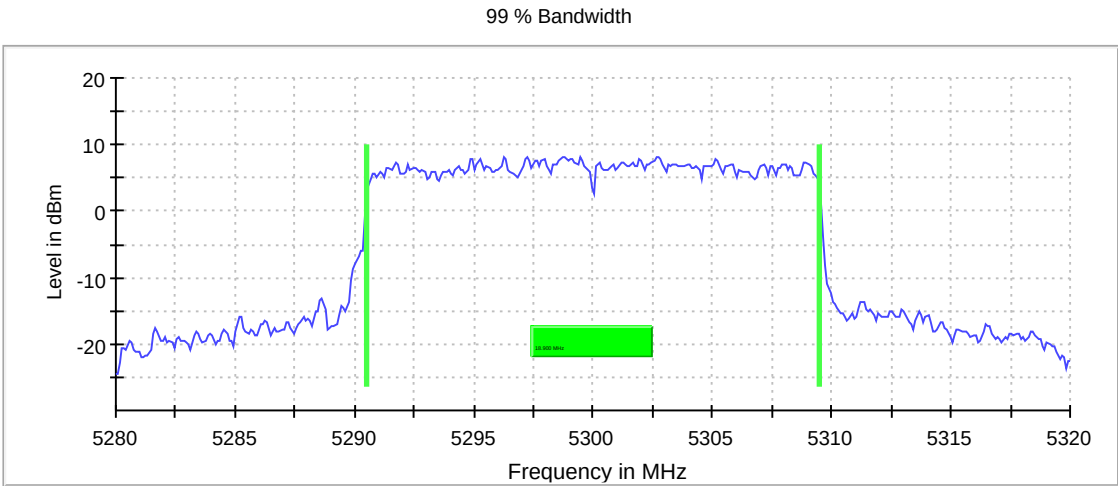
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

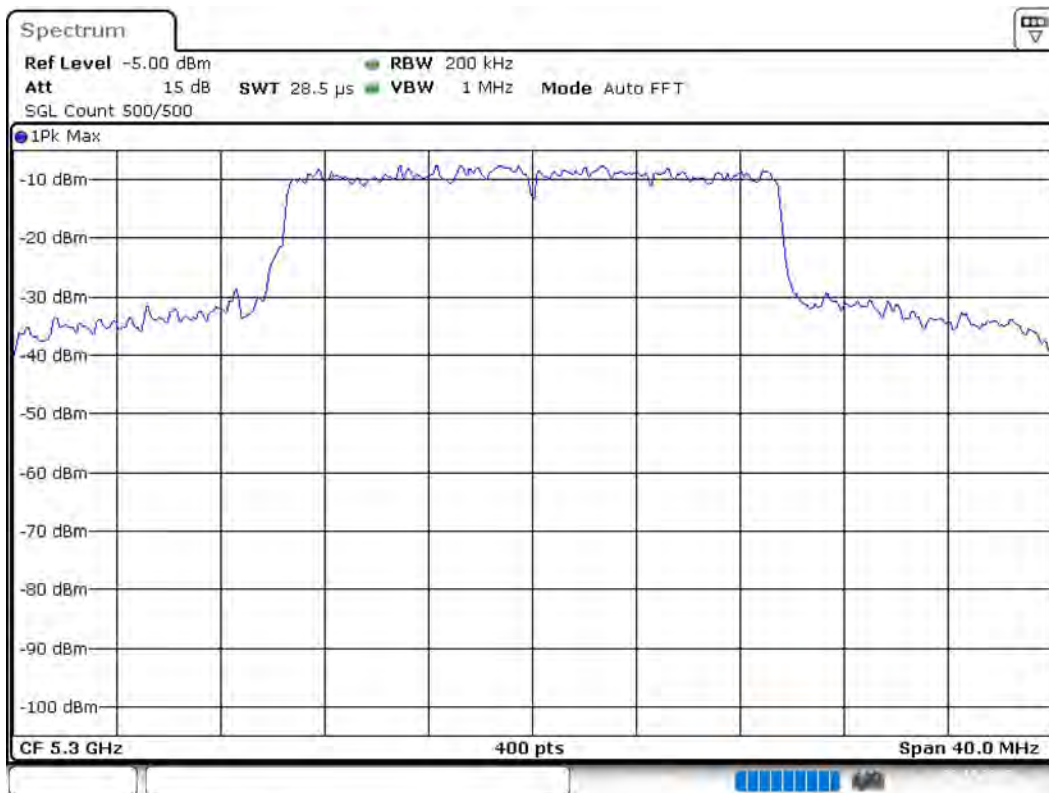
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	18.900000	---	---	5290.550000	5309.450000

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

DUT Frequency (MHz)	Result
5300.000000	PASS



Bandwidth



Date: 21.NOV.2019 05:10:56

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.28000 GHz	5.28000 GHz
Stop Frequency	5.32000 GHz	5.32000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	≥ 200.000 kHz
VBW	1.000 MHz	≥ 600.000 kHz
SweepPoints	400	~ 400
SweepTime	28.477 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5300 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.750000	-26.9	-38.4	-27.0	11.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.750000	-26.9	-0.1	-27.0
5350.250000	-27.2	0.2	-27.0
1000.000000	-46.9	1.0	-45.9
5351.250000	-28.0	1.0	-27.0
5353.250000	-28.7	1.7	-27.0
5353.750000	-29.1	2.1	-27.0
5352.750000	-29.3	2.3	-27.0
5352.250000	-30.1	3.1	-27.0
5351.750000	-30.6	3.6	-27.0
5354.250000	-32.1	5.1	-27.0
48.325000	-66.2	6.3	-59.9
55.625000	-66.2	6.3	-59.9
5146.250000	-33.4	6.4	-27.0
56.625000	-66.3	6.4	-59.9
73.225000	-66.4	6.5	-59.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 120.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5300 MHz; (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.250000	-35.4	-41.2	-41.2	0.0	PASS
5353.750000	-38.1	-42.4	-41.2	1.2	PASS
5370.750000	-40.3	-49.4	-41.2	8.2	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.250000	-35.4	-5.8	-41.2
5351.250000	-37.5	-3.7	-41.2
5351.750000	-37.5	-3.7	-41.2
5353.750000	-38.1	-3.1	-41.2
5353.250000	-39.7	-1.5	-41.2
5370.750000	-40.3	-0.9	-41.2
5350.750000	-40.6	-0.6	-41.2
5354.250000	-40.8	-0.4	-41.2
5354.750000	-41.3	0.1	-41.2
5357.750000	-42.0	0.8	-41.2
5139.750000	-42.5	1.3	-41.2
5134.250000	-42.6	1.4	-41.2
5363.250000	-42.9	1.7	-41.2
5360.250000	-43.0	1.8	-41.2
5352.250000	-43.0	1.8	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5300 MHz; (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5134.750000	-38.5	-48.1	-41.2	6.9	PASS
5137.750000	-40.0	-48.1	-41.2	6.9	PASS
5141.250000	-37.9	-48.0	-41.2	6.8	PASS
5145.250000	-39.5	-48.1	-41.2	6.9	PASS
5352.250000	-33.8	-41.9	-41.2	0.7	PASS
5354.750000	-39.4	-49.2	-41.2	8.0	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5352.250000	-33.8	-7.4	-41.2
5351.750000	-34.8	-6.4	-41.2
5350.250000	-34.8	-6.4	-41.2
5351.250000	-36.7	-4.5	-41.2
5141.250000	-37.9	-3.3	-41.2
5141.750000	-38.3	-2.9	-41.2
5134.750000	-38.5	-2.7	-41.2
5354.750000	-39.4	-1.8	-41.2
5133.750000	-39.4	-1.8	-41.2
5145.250000	-39.5	-1.7	-41.2
5135.750000	-39.8	-1.4	-41.2
5353.750000	-39.8	-1.4	-41.2
5137.750000	-40.0	-1.2	-41.2
5350.750000	-40.3	-0.9	-41.2
5142.750000	-40.5	-0.7	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5335 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

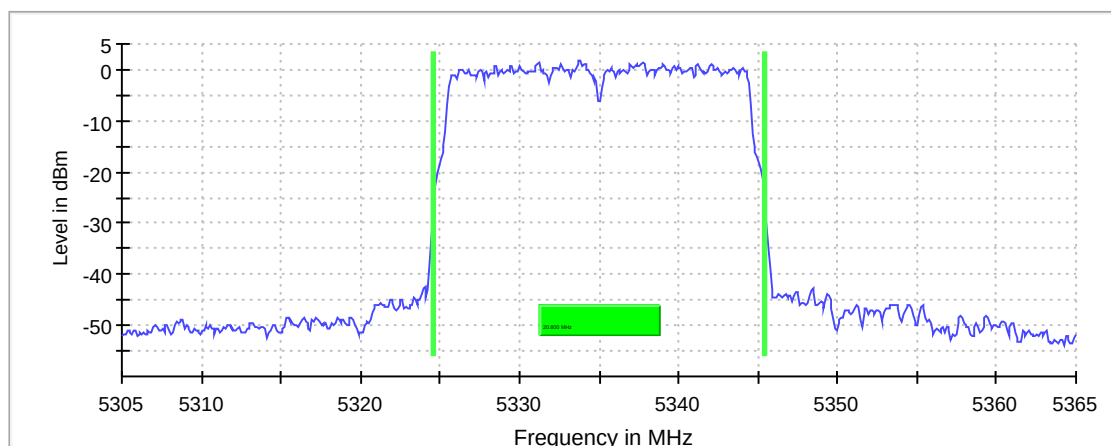
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5335.000000	20.800000	---	---	5324.650000	5345.450000

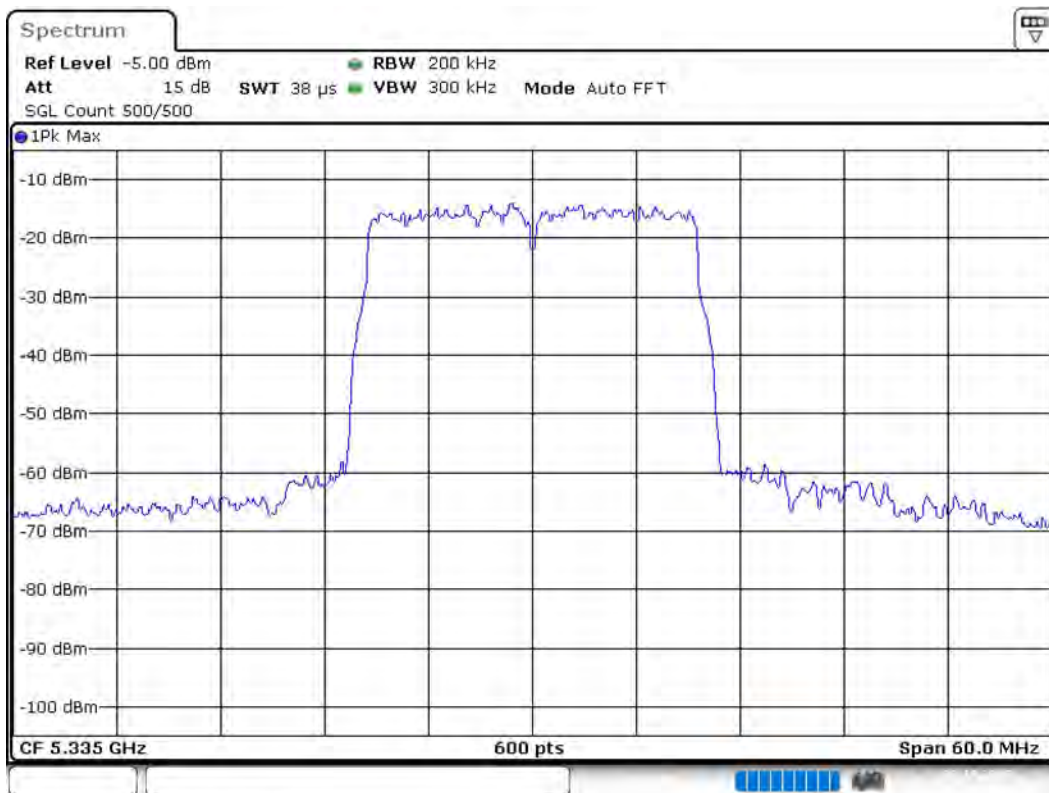
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5335.000000	1.7	PASS

26 dB Bandwidth



Bandwidth



Date: 2.NOV.2019 18:36:36

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.30500 GHz	5.30500 GHz
Stop Frequency	5.36500 GHz	5.36500 GHz
Span	60.000 MHz	60.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	300.000 kHz	>= 240.000 kHz
SweepPoints	600	~ 600
Sweeptime	37.969 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

RF output power (5335 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5335.000000	20.0	27.0	20.0	99.429	PASS

Power Spectral Density (5335 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5335.000000	5337.772277	3.030	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.32500 GHz	5.32500 GHz
Stop Frequency	5.34500 GHz	5.34500 GHz
Span	20.000 MHz	20.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 40
SweepTime	2.020 ms	2.020 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5335 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

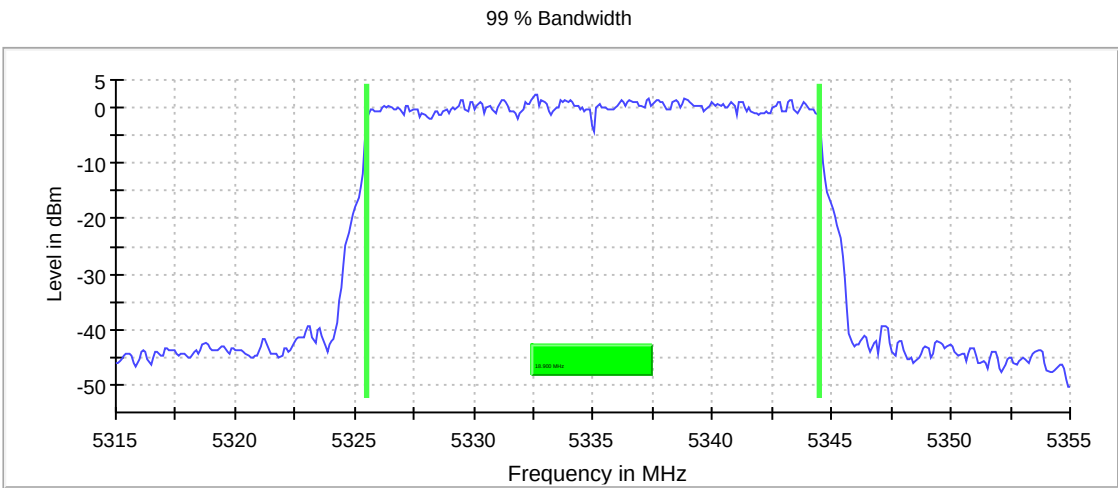
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

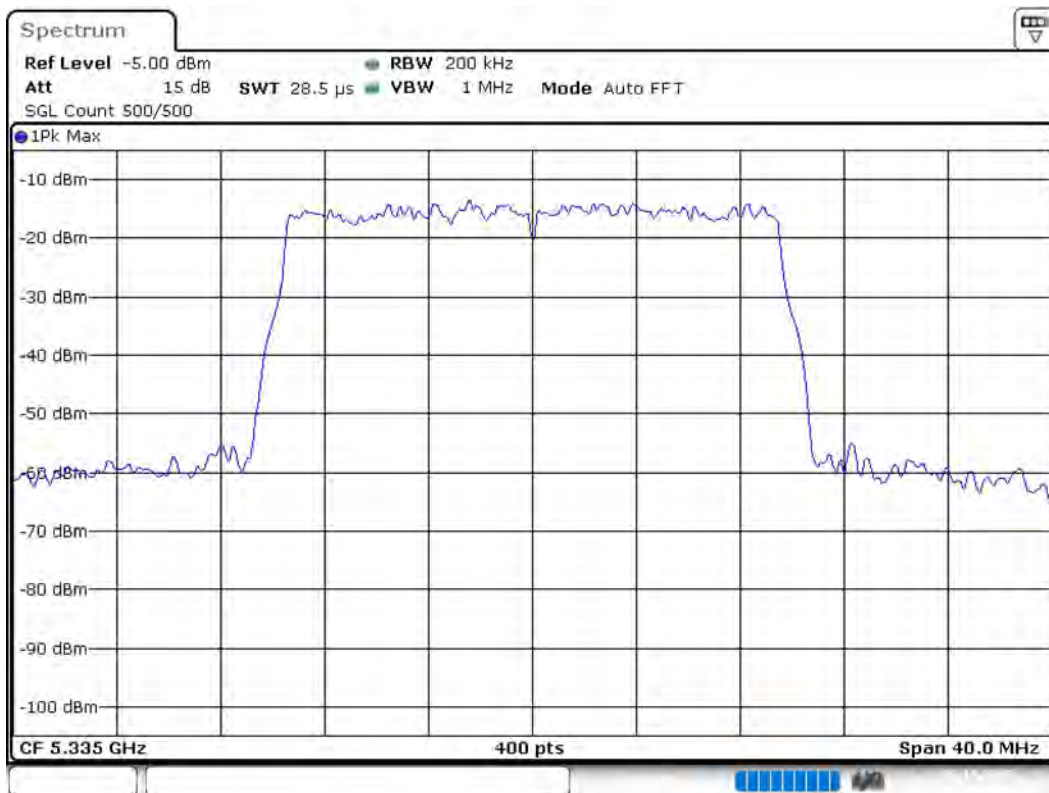
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5335.000000	18.900000	---	---	5325.550000	5344.450000

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

DUT Frequency (MHz)	Result
5335.000000	PASS



Bandwidth



Date: 2.NOV.2019 18:37:34

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.31500 GHz	5.31500 GHz
Stop Frequency	5.35500 GHz	5.35500 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	$\geq$ 200.000 kHz
VBW	1.000 MHz	$\geq$ 600.000 kHz
SweepPoints	400	~ 400
Sweeptime	28.477 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5335 MHz; _____ (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5335.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-47.8	1.9	-45.9
64.925000	-66.1	6.2	-59.9
34.575000	-66.2	6.3	-59.9
68.275000	-66.2	6.3	-59.9
58.875000	-66.3	6.4	-59.9
74.675000	-66.4	6.5	-59.9
81.775000	-66.4	6.5	-59.9
84.575000	-66.5	6.6	-59.9
46.675000	-66.6	6.7	-59.9
68.675000	-66.6	6.7	-59.9
76.925000	-66.6	6.7	-59.9
37.925000	-66.6	6.7	-59.9
40.025000	-66.6	6.7	-59.9
45.975000	-66.6	6.7	-59.9
74.325000	-66.7	6.8	-59.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5335 MHz; (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5335.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5351.250000	-20.3	-51.4	-41.2	10.2	PASS
5352.750000	-20.7	-52.3	-41.2	11.1	PASS
5355.750000	-26.0	-53.3	-41.2	12.1	PASS
5357.250000	-23.0	-54.2	-41.2	13.0	PASS
5374.250000	-39.9	-47.3	-41.2	6.1	PASS
5380.750000	-39.1	-47.2	-41.2	6.0	PASS
5382.250000	-39.2	-47.5	-41.2	6.3	PASS
5385.250000	-39.0	-47.6	-41.2	6.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5351.250000	-20.3	-20.9	-41.2
5352.750000	-20.7	-20.5	-41.2
5357.250000	-23.0	-18.2	-41.2
5352.250000	-24.5	-16.7	-41.2
5356.750000	-24.6	-16.6	-41.2
5355.750000	-26.0	-15.2	-41.2
5357.750000	-27.2	-14.0	-41.2
5351.750000	-27.9	-13.3	-41.2
5358.750000	-27.9	-13.3	-41.2
5358.250000	-28.3	-12.9	-41.2
5350.250000	-28.4	-12.8	-41.2
5350.750000	-28.4	-12.8	-41.2
5353.750000	-29.8	-11.4	-41.2
5355.250000	-30.0	-11.2	-41.2
5353.250000	-30.0	-11.2	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5335 MHz; (30 dBm); 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5335.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.750000	-17.2	-51.5	-41.2	10.3	PASS
5352.750000	-18.3	-52.7	-41.2	11.5	PASS
5354.250000	-27.1	-53.5	-41.2	12.3	PASS
5359.750000	-35.4	-55.4	-41.2	14.2	PASS
5360.750000	-33.6	-55.7	-41.2	14.5	PASS
5365.250000	-40.9	-56.5	-41.2	15.3	PASS
5377.750000	-39.1	-47.1	-41.2	5.9	PASS
5380.750000	-37.0	-47.2	-41.2	6.0	PASS
5384.750000	-41.0	-47.3	-41.2	6.1	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.750000	-17.2	-24.0	-41.2
5350.250000	-17.3	-23.9	-41.2
5351.250000	-17.4	-23.8	-41.2
5352.750000	-18.3	-22.9	-41.2
5353.250000	-18.6	-22.6	-41.2
5354.250000	-27.1	-14.1	-41.2
5355.250000	-30.3	-10.9	-41.2
5351.750000	-30.5	-10.7	-41.2
5355.750000	-30.6	-10.6	-41.2
5352.250000	-31.5	-9.7	-41.2
5357.250000	-31.8	-9.4	-41.2
5356.750000	-32.2	-9.0	-41.2
5354.750000	-32.3	-8.9	-41.2
5356.250000	-32.9	-8.3	-41.2
5360.750000	-33.6	-7.6	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5265 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

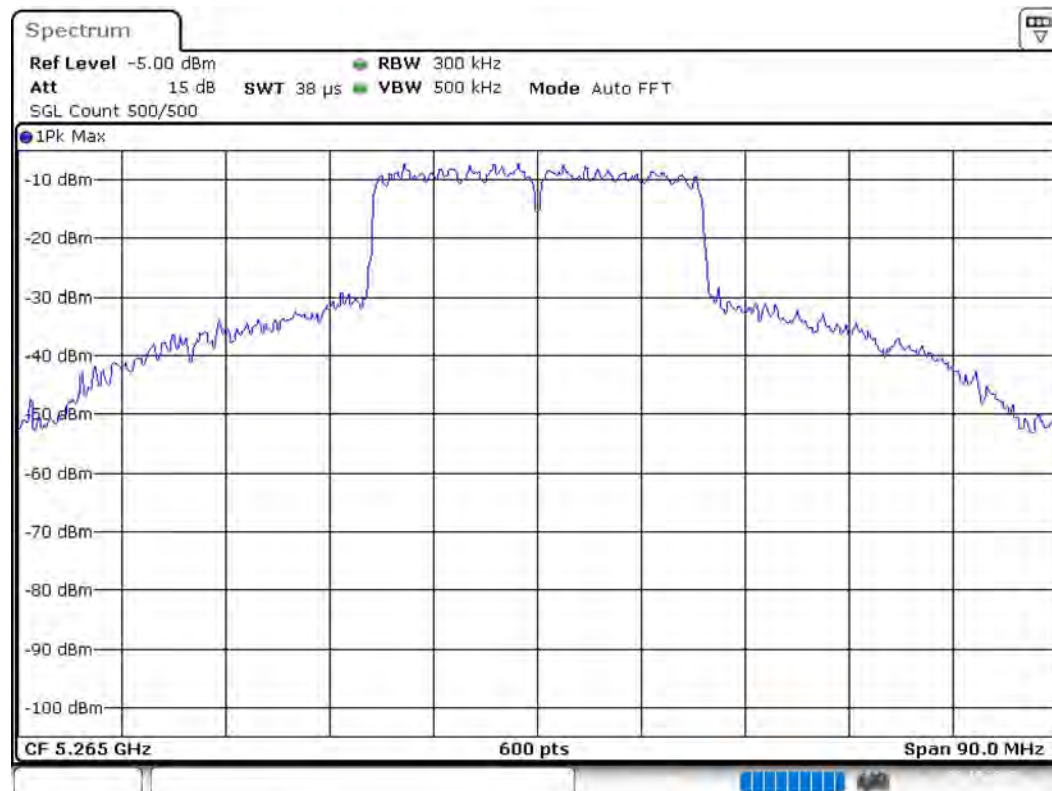
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5265.000000	46.050000	---	---	5243.775000	5289.825000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5265.000000	8.4	PASS

Bandwidth



Date: 2.NOV.2019 19:27:14

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.31000 GHz	5.31000 GHz
Span	90.000 MHz	90.000 MHz
RBW	300.000 kHz	~ 300.000 kHz
VBW	500.000 kHz	>= 360.000 kHz
SweepPoints	600	~ 600
SweepTime	37.969 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5265 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5265.000000	26.3	27.0	26.3	99.606	PASS

Power Spectral Density (5265 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5265.000000	5263.514851	8.378	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.28000 GHz	5.28000 GHz
Span	30.000 MHz	30.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 60
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5265 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

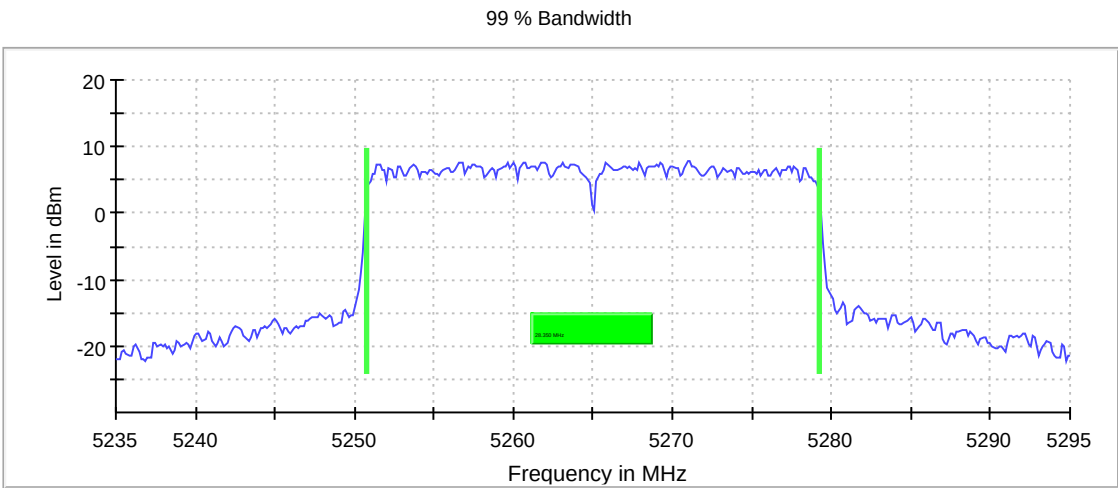
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

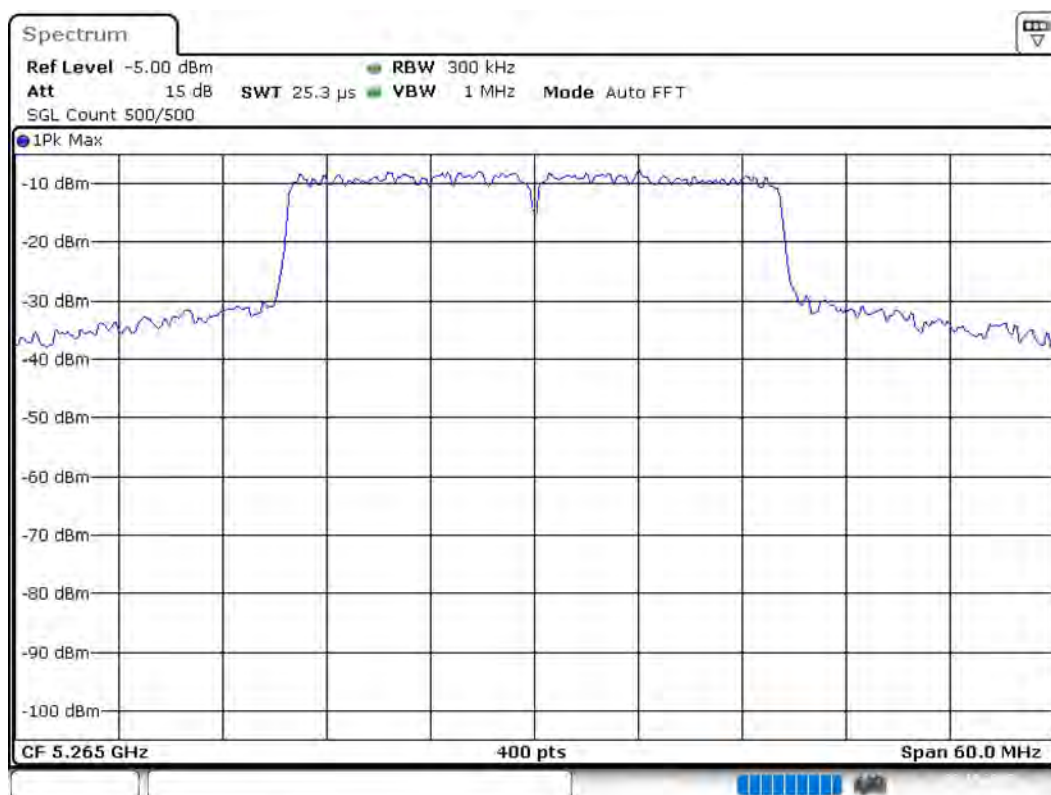
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5265.000000	28.350000	---	---	5250.825000	5279.175000

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

DUT Frequency (MHz)	Result
5265.000000	PASS



Bandwidth



Date: 21.NOV.2019 19:28:08

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.23500 GHz	5.23500 GHz
Stop Frequency	5.29500 GHz	5.29500 GHz
Span	60.000 MHz	60.000 MHz
RBW	300.000 kHz	$\geq$ 300.000 kHz
VBW	1.000 MHz	$\geq$ 900.000 kHz
SweepPoints	400	~ 400
SweepTime	25.313 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5265 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5265.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-46.5	0.6	-45.9
74.275000	-66.0	6.1	-59.9
75.675000	-66.0	6.1	-59.9
67.275000	-66.1	6.2	-59.9
50.175000	-66.4	6.5	-59.9
66.375000	-66.4	6.5	-59.9
38.875000	-66.4	6.5	-59.9
82.575000	-66.5	6.6	-59.9
51.775000	-66.5	6.6	-59.9
83.475000	-66.5	6.6	-59.9
86.275000	-66.5	6.6	-59.9
70.825000	-66.6	6.7	-59.9
46.925000	-66.6	6.7	-59.9
83.575000	-66.6	6.7	-59.9
34.475000	-66.6	6.7	-59.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5265 MHz; ____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5265.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5108.750000	-42.3	1.1	-41.2
5365.250000	-42.4	1.2	-41.2
5108.250000	-42.8	1.6	-41.2
5370.750000	-43.2	2.0	-41.2
5374.750000	-43.4	2.2	-41.2
5375.250000	-43.4	2.2	-41.2
5377.750000	-43.5	2.3	-41.2
5377.250000	-44.2	3.0	-41.2
5107.750000	-44.5	3.3	-41.2
5376.750000	-44.5	3.3	-41.2
5111.250000	-44.6	3.4	-41.2
5008.750000	-44.7	3.5	-41.2
5352.250000	-44.8	3.6	-41.2
5009.250000	-44.9	3.7	-41.2
5352.750000	-44.9	3.7	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	≤ 300.000 Hz
VBW	1.000 kHz	≥ 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5265 MHz; (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5265.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5094.750000	-38.9	-49.0	-41.2	7.8	PASS
5098.750000	-40.3	-48.8	-41.2	7.6	PASS
5106.750000	-40.1	-49.1	-41.2	7.9	PASS
5117.250000	-38.5	-48.0	-41.2	6.8	PASS
5131.750000	-40.8	-50.7	-41.2	9.5	PASS
5136.750000	-41.1	-51.0	-41.2	9.8	PASS
5371.250000	-39.7	-50.4	-41.2	9.2	PASS
5412.750000	-39.7	-48.6	-41.2	7.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5117.250000	-38.5	-2.7	-41.2
5094.750000	-38.9	-2.3	-41.2
5095.250000	-39.2	-2.0	-41.2
5371.250000	-39.7	-1.5	-41.2
5412.750000	-39.7	-1.5	-41.2
5413.250000	-39.9	-1.3	-41.2
5106.750000	-40.1	-1.1	-41.2
5098.750000	-40.3	-0.9	-41.2
5098.250000	-40.5	-0.7	-41.2
5118.250000	-40.6	-0.6	-41.2
5131.750000	-40.8	-0.4	-41.2
5107.250000	-40.9	-0.3	-41.2
5136.750000	-41.1	-0.1	-41.2
5368.250000	-41.4	0.2	-41.2
5393.250000	-41.6	0.4	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5300 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

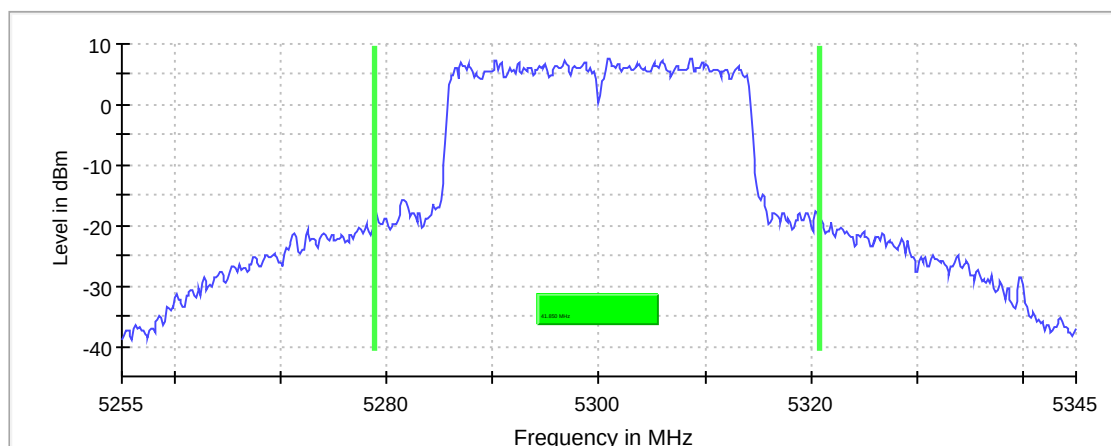
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	41.850000	---	---	5278.925000	5320.775000

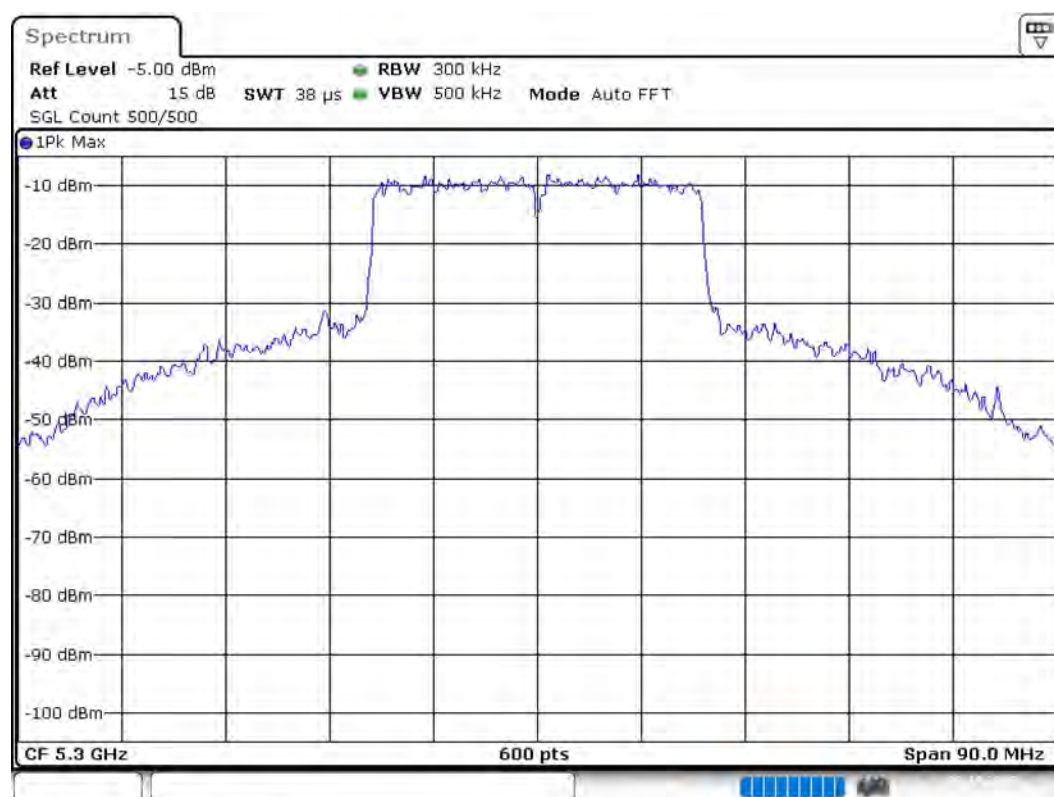
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	7.6	PASS

26 dB Bandwidth



Bandwidth



Date: 21.NOV.2019 23:50:28

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25500 GHz	5.25500 GHz
Stop Frequency	5.34500 GHz	5.34500 GHz
Span	90.000 MHz	90.000 MHz
RBW	300.000 kHz	~ 300.000 kHz
VBW	500.000 kHz	>= 360.000 kHz
SweepPoints	600	~ 600
SweepTime	37.969 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5300 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5300.000000	25.9	27.0	25.9	99.605	PASS

Power Spectral Density (5300 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5301.782178	8.411	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.28500 GHz	5.28500 GHz
Stop Frequency	5.31500 GHz	5.31500 GHz
Span	30.000 MHz	30.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 60
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5300 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

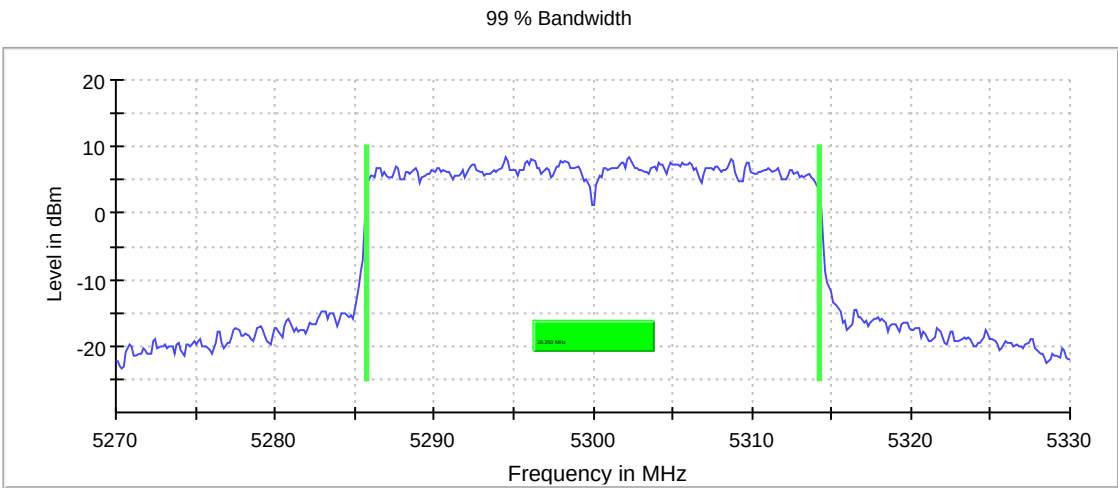
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

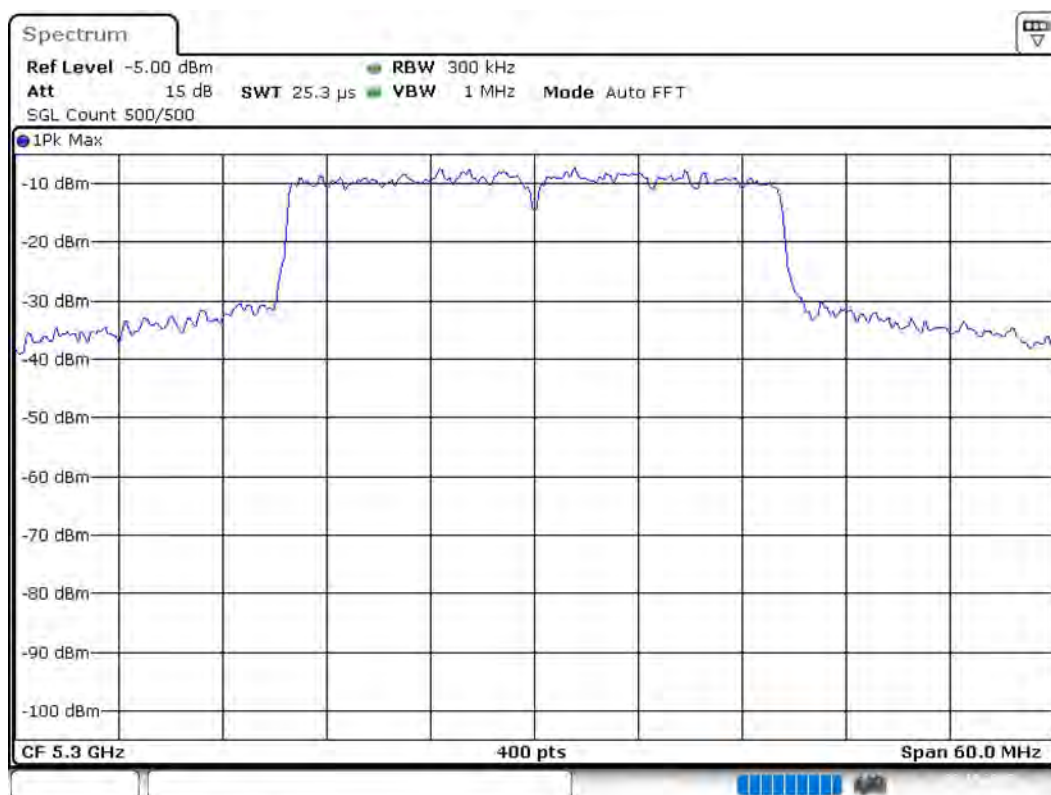
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	28.350000	---	---	5285.825000	5314.175000

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

DUT Frequency (MHz)	Result
5300.000000	PASS



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.33000 GHz	5.33000 GHz
Span	60.000 MHz	60.000 MHz
RBW	300.000 kHz	$\geq$ 300.000 kHz
VBW	1.000 MHz	$\geq$ 900.000 kHz
SweepPoints	400	$\sim$ 400
SweepTime	25.313 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5300 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5354.750000	-26.2	-40.4	-27.0	13.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5354.750000	-26.2	-0.8	-27.0
5351.250000	-26.3	-0.7	-27.0
5350.750000	-26.4	-0.6	-27.0
5354.250000	-26.6	-0.4	-27.0
5350.250000	-26.8	-0.2	-27.0
5355.250000	-26.8	-0.2	-27.0
5351.750000	-27.1	0.1	-27.0
5355.750000	-27.1	0.1	-27.0
5356.250000	-27.2	0.2	-27.0
5356.750000	-27.9	0.9	-27.0
5352.750000	-27.9	0.9	-27.0
5353.750000	-27.9	0.9	-27.0
5353.250000	-28.0	1.0	-27.0
5360.250000	-28.2	1.2	-27.0
5352.250000	-28.4	1.4	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	25.000 dB	25.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5300 MHz; (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.250000	-26.7	-42.3	-41.2	1.1	PASS
5356.250000	-30.2	-45.2	-41.2	4.0	PASS
5361.750000	-35.9	-47.6	-41.2	6.4	PASS
5363.750000	-40.1	-47.5	-41.2	6.3	PASS
5367.750000	-35.3	-49.3	-41.2	8.1	PASS
5369.750000	-38.8	-49.9	-41.2	8.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.250000	-26.7	-14.5	-41.2
5356.250000	-30.2	-11.0	-41.2
5367.750000	-35.3	-5.9	-41.2
5358.250000	-35.3	-5.9	-41.2
5350.750000	-35.9	-5.3	-41.2
5361.750000	-35.9	-5.3	-41.2
5351.750000	-36.3	-4.9	-41.2
5362.250000	-37.5	-3.7	-41.2
5359.250000	-37.5	-3.7	-41.2
5356.750000	-37.5	-3.7	-41.2
5360.250000	-37.9	-3.3	-41.2
5357.750000	-38.0	-3.2	-41.2
5357.250000	-38.0	-3.2	-41.2
5352.250000	-38.1	-3.1	-41.2
5353.750000	-38.2	-3.0	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5300 MHz; (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5133.750000	-41.1	-49.3	-41.2	8.1	PASS
5350.250000	-33.5	-41.2	-41.2	0.0	PASS
5356.250000	-33.1	-44.0	-41.2	2.8	PASS
5363.250000	-38.8	-46.8	-41.2	5.6	PASS
5365.750000	-36.8	-47.8	-41.2	6.6	PASS
5366.750000	-39.3	-48.3	-41.2	7.1	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5356.250000	-33.1	-8.1	-41.2
5350.250000	-33.5	-7.7	-41.2
5356.750000	-36.0	-5.2	-41.2
5350.750000	-36.3	-4.9	-41.2
5360.250000	-36.6	-4.6	-41.2
5365.750000	-36.8	-4.4	-41.2
5358.250000	-37.7	-3.5	-41.2
5357.250000	-37.9	-3.3	-41.2
5357.750000	-38.0	-3.2	-41.2
5359.250000	-38.1	-3.1	-41.2
5352.250000	-38.1	-3.1	-41.2
5353.750000	-38.2	-3.0	-41.2
5358.750000	-38.6	-2.6	-41.2
5363.250000	-38.8	-2.4	-41.2
5351.750000	-39.2	-2.0	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5330 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

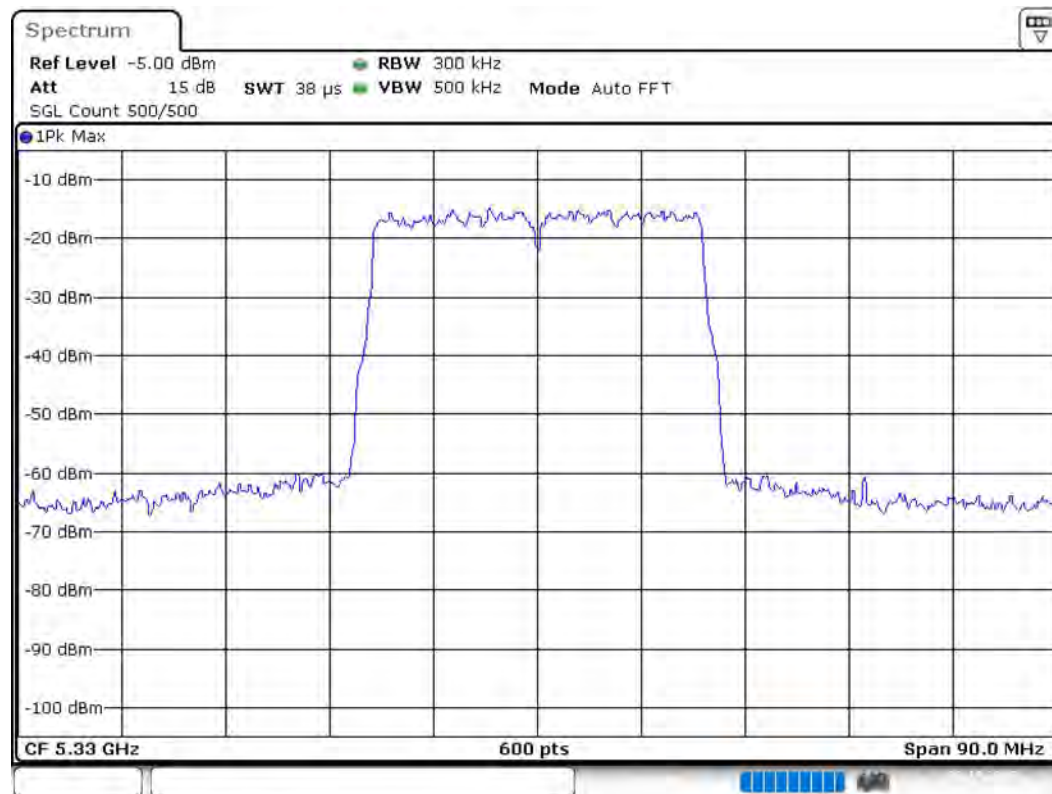
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5330.000000	30.750000	---	---	5314.775000	5345.525000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5330.000000	0.8	PASS

Bandwidth



Date: 3.NOV.2019 01:31:23

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.28500 GHz	5.28500 GHz
Stop Frequency	5.37500 GHz	5.37500 GHz
Span	90.000 MHz	90.000 MHz
RBW	300.000 kHz	~ 300.000 kHz
VBW	500.000 kHz	>= 360.000 kHz
SweepPoints	600	~ 600
SweepTime	37.969 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5330 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5330.000000	19.7	27.0	19.7	99.616	PASS

Power Spectral Density (5330 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5330.000000	5328.217822	2.373	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.31500 GHz	5.31500 GHz
Stop Frequency	5.34500 GHz	5.34500 GHz
Span	30.000 MHz	30.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 60
SweepTime	2.020 ms	2.020 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5330 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

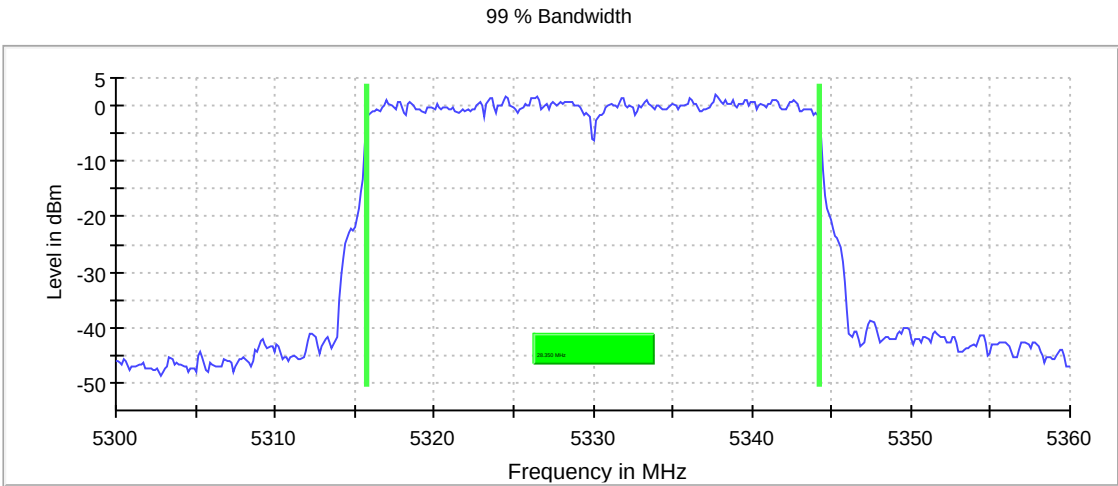
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5330.000000	28.350000	---	---	5315.825000	5344.175000

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

DUT Frequency (MHz)	Result
5330.000000	PASS



Bandwidth



Date: 3.NOV.2019 01:52:17

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.30000 GHz	5.30000 GHz
Stop Frequency	5.36000 GHz	5.36000 GHz
Span	60.000 MHz	60.000 MHz
RBW	300.000 kHz	$\geq$ 300.000 kHz
VBW	1.000 MHz	$\geq$ 900.000 kHz
SweepPoints	400	$\sim$ 400
SweepTime	25.313 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5330 MHz; _____ (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5330.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-47.3	1.4	-45.9
85.625000	-66.0	6.1	-59.9
70.275000	-66.1	6.2	-59.9
73.225000	-66.2	6.3	-59.9
73.925000	-66.3	6.4	-59.9
56.175000	-66.3	6.4	-59.9
42.825000	-66.3	6.4	-59.9
49.925000	-66.3	6.4	-59.9
80.375000	-66.3	6.4	-59.9
85.375000	-66.5	6.6	-59.9
62.375000	-66.5	6.6	-59.9
52.125000	-66.5	6.6	-59.9
81.875000	-66.5	6.6	-59.9
81.575000	-66.6	6.7	-59.9
45.425000	-66.6	6.7	-59.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5330 MHz; (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5330.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.250000	-17.3	-44.2	-41.2	3.0	PASS
5351.750000	-18.1	-45.0	-41.2	3.8	PASS
5359.250000	-25.4	-47.6	-41.2	6.4	PASS
5364.250000	-25.1	-49.1	-41.2	7.9	PASS
5366.750000	-35.8	-49.5	-41.2	8.3	PASS
5373.750000	-39.9	-50.7	-41.2	9.5	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.250000	-17.3	-23.9	-41.2
5351.750000	-18.1	-23.1	-41.2
5350.750000	-21.2	-20.0	-41.2
5353.250000	-22.3	-18.9	-41.2
5352.750000	-22.8	-18.4	-41.2
5353.750000	-22.9	-18.3	-41.2
5351.250000	-24.5	-16.7	-41.2
5354.250000	-24.7	-16.5	-41.2
5364.250000	-25.1	-16.1	-41.2
5352.250000	-25.2	-16.0	-41.2
5359.250000	-25.4	-15.8	-41.2
5355.750000	-25.5	-15.7	-41.2
5359.750000	-26.0	-15.2	-41.2
5356.250000	-26.4	-14.8	-41.2
5354.750000	-26.5	-14.7	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5330 MHz; (30 dBm); 30 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5330.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.250000	-18.5	-44.6	-41.2	3.4	PASS
5356.250000	-22.5	-46.7	-41.2	5.5	PASS
5359.750000	-21.4	-47.6	-41.2	6.4	PASS
5362.250000	-23.8	-48.2	-41.2	7.0	PASS
5366.250000	-30.2	-49.1	-41.2	7.9	PASS
5369.750000	-33.8	-49.9	-41.2	8.7	PASS
5380.250000	-40.5	-56.2	-41.2	15.0	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.250000	-18.5	-22.7	-41.2
5352.750000	-19.8	-21.4	-41.2
5359.750000	-21.4	-19.8	-41.2
5350.750000	-21.9	-19.3	-41.2
5357.750000	-22.5	-18.7	-41.2
5356.250000	-22.5	-18.7	-41.2
5351.250000	-22.8	-18.4	-41.2
5352.250000	-22.8	-18.4	-41.2
5353.250000	-23.0	-18.2	-41.2
5353.750000	-23.0	-18.2	-41.2
5354.250000	-23.1	-18.1	-41.2
5362.250000	-23.8	-17.4	-41.2
5358.750000	-24.0	-17.2	-41.2
5351.750000	-24.2	-17.0	-41.2
5359.250000	-25.0	-16.2	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5270 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

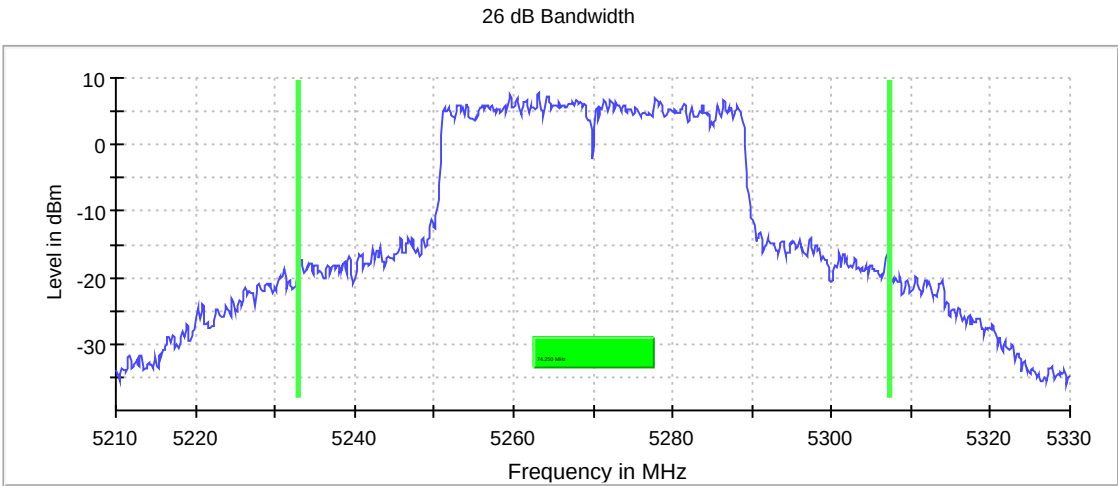
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

26 dB Bandwidth

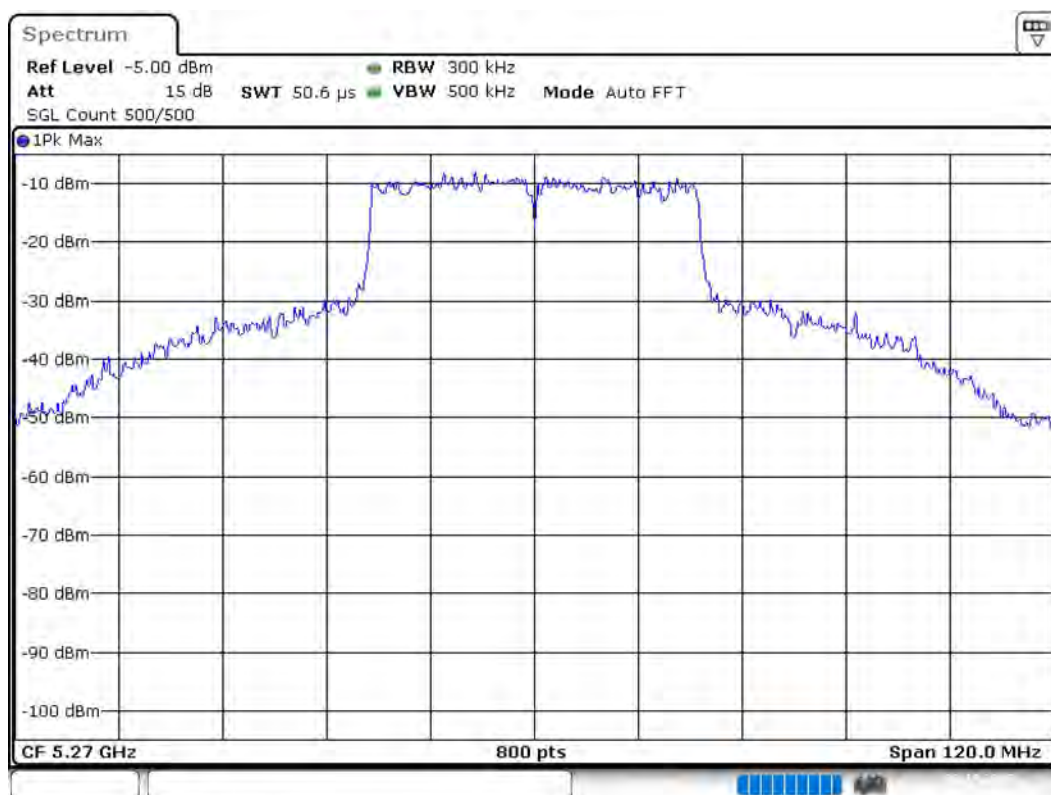
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5270.000000	74.250000	---	---	5233.025000	5307.275000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5270.000000	7.8	PASS



Bandwidth



Date: 3.NOV.2019 05:18:33

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.21000 GHz	5.21000 GHz
Stop Frequency	5.33000 GHz	5.33000 GHz
Span	120.000 MHz	120.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	500.000 kHz	>= 360.000 kHz
SweepPoints	800	~ 800
SweepTime	50.625 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5270 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5270.000000	26.8	27.0	26.8	99.492	PASS

Power Spectral Density (5270 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5270.000000	5272.772277	7.733	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 80
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5270 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

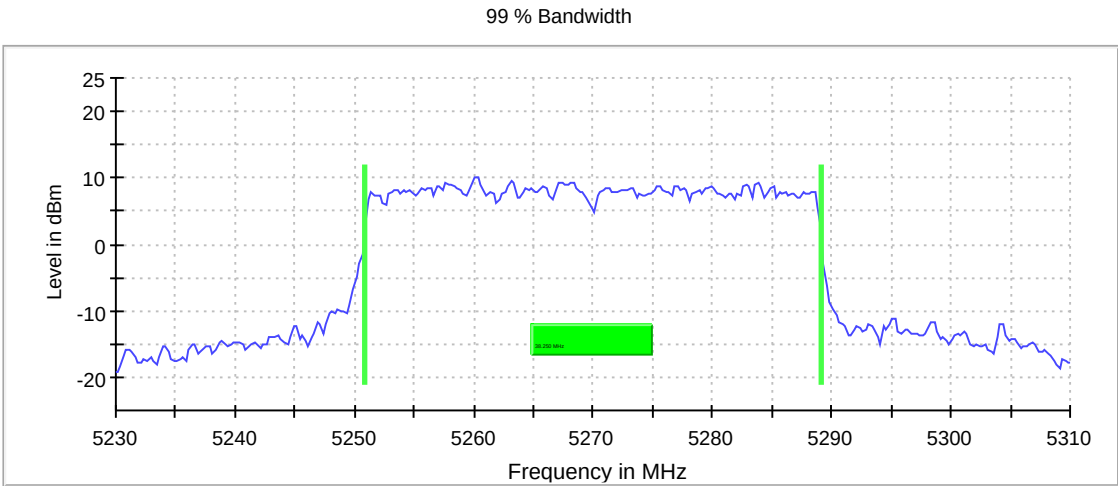
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

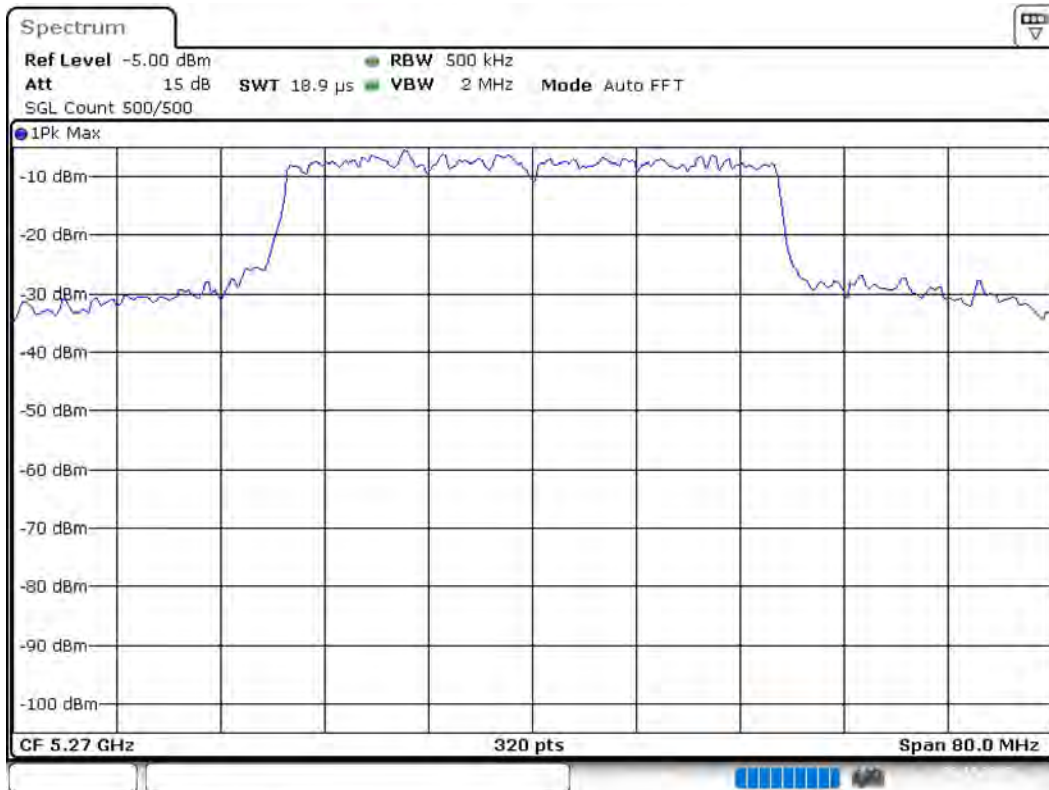
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5270.000000	38.250000	---	---	5250.875000	5289.125000

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

DUT Frequency (MHz)	Result
5270.000000	PASS



Bandwidth



Date: 3.NOV.2019 05:19:28

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.23000 GHz	5.23000 GHz
Stop Frequency	5.31000 GHz	5.31000 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	≥ 400.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	320	~ 320
SweepTime	18.906 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5270 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5270.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-46.8	0.9	-45.9
5350.250000	-28.9	1.9	-27.0
5350.750000	-29.1	2.1	-27.0
5354.750000	-30.8	3.8	-27.0
5351.250000	-30.8	3.8	-27.0
5354.250000	-31.3	4.3	-27.0
5358.750000	-31.7	4.7	-27.0
5358.250000	-31.9	4.9	-27.0
5355.250000	-32.1	5.1	-27.0
5362.750000	-32.3	5.3	-27.0
5359.250000	-32.4	5.4	-27.0
5353.750000	-32.6	5.6	-27.0
5362.250000	-32.6	5.6	-27.0
73.325000	-65.6	5.7	-59.9
5353.250000	-32.9	5.9	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5270 MHz; ____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5270.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5120.250000	-40.7	-51.5	-41.2	10.3	PASS
5351.250000	-38.9	-45.0	-41.2	3.8	PASS
5365.750000	-40.9	-49.7	-41.2	8.5	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5351.250000	-38.9	-2.3	-41.2
5353.750000	-39.0	-2.2	-41.2
5350.250000	-39.6	-1.6	-41.2
5352.250000	-39.9	-1.3	-41.2
5351.750000	-40.1	-1.1	-41.2
5120.250000	-40.7	-0.5	-41.2
5365.750000	-40.9	-0.3	-41.2
5120.750000	-41.5	0.3	-41.2
5358.750000	-41.7	0.5	-41.2
5365.250000	-41.9	0.7	-41.2
5350.750000	-42.0	0.8	-41.2
5358.250000	-42.1	0.9	-41.2
5357.250000	-42.3	1.1	-41.2
5356.750000	-42.4	1.2	-41.2
5129.250000	-42.4	1.2	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5270 MHz; (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5270.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5095.250000	-37.8	-49.3	-41.2	8.1	PASS
5097.250000	-40.0	-49.4	-41.2	8.2	PASS
5117.750000	-40.3	-48.8	-41.2	7.6	PASS
5119.750000	-39.9	-48.5	-41.2	7.3	PASS
5122.250000	-39.3	-48.5	-41.2	7.3	PASS
5137.250000	-40.7	-51.4	-41.2	10.2	PASS
5146.250000	-40.4	-51.4	-41.2	10.2	PASS
5352.250000	-37.9	-45.2	-41.2	4.0	PASS
5356.750000	-40.6	-46.5	-41.2	5.3	PASS
5360.750000	-35.3	-47.7	-41.2	6.5	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5360.750000	-35.3	-5.9	-41.2
5095.250000	-37.8	-3.4	-41.2
5352.250000	-37.9	-3.3	-41.2
5352.750000	-38.5	-2.7	-41.2
5353.250000	-39.3	-1.9	-41.2
5122.250000	-39.3	-1.9	-41.2
5119.750000	-39.9	-1.3	-41.2
5097.250000	-40.0	-1.2	-41.2
5351.750000	-40.2	-1.0	-41.2
5117.750000	-40.3	-0.9	-41.2
5097.750000	-40.3	-0.9	-41.2
5146.250000	-40.4	-0.8	-41.2
5356.750000	-40.6	-0.6	-41.2
5357.250000	-40.6	-0.6	-41.2
5137.250000	-40.7	-0.5	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5300 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

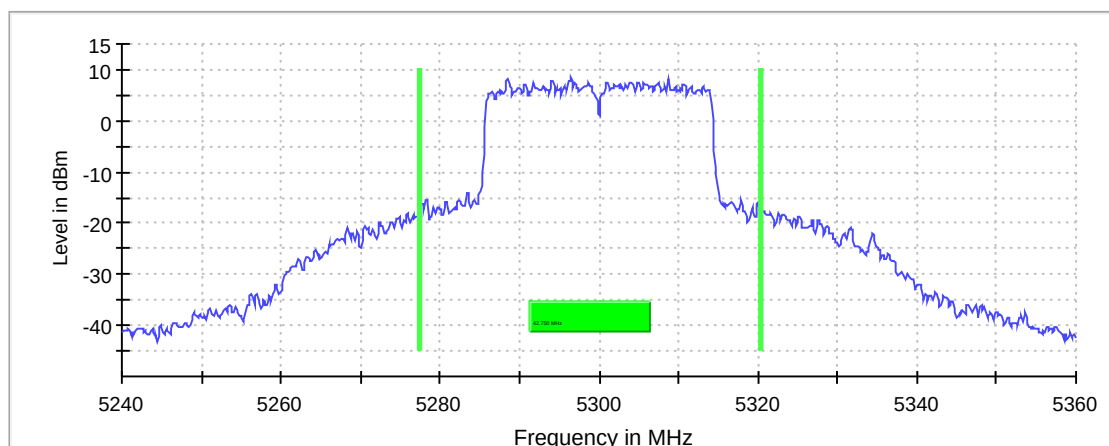
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	42.750000	---	---	5277.575000	5320.325000

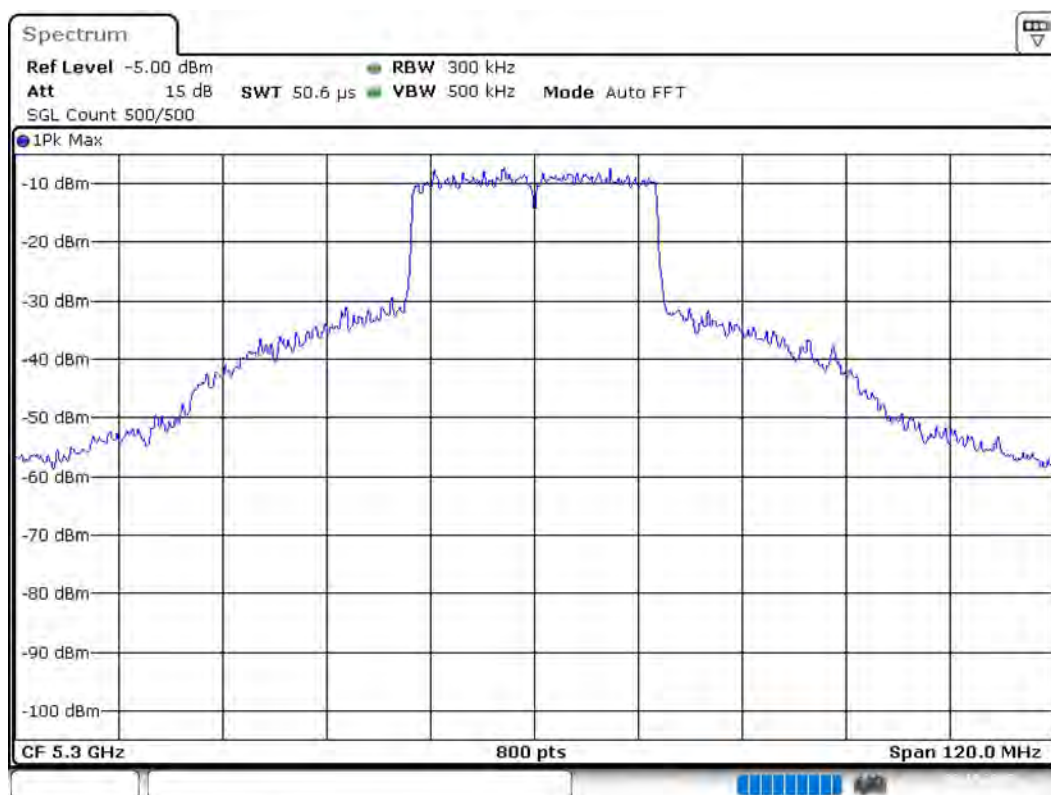
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	8.5	PASS

26 dB Bandwidth



Bandwidth



Date: 3.NOV.2019 06:01:20

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.24000 GHz	5.24000 GHz
Stop Frequency	5.36000 GHz	5.36000 GHz
Span	120.000 MHz	120.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	500.000 kHz	>= 360.000 kHz
SweepPoints	800	~ 800
SweepTime	50.625 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5300 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5300.000000	26.5	27.0	26.5	99.605	PASS

Power Spectral Density (5300 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5303.960396	8.412	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.28000 GHz	5.28000 GHz
Stop Frequency	5.32000 GHz	5.32000 GHz
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 80
SweepTime	2.020 ms	2.020 ms
Reference Level	20.000 dBm	20.000 dBm
Attenuation	40.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5300 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

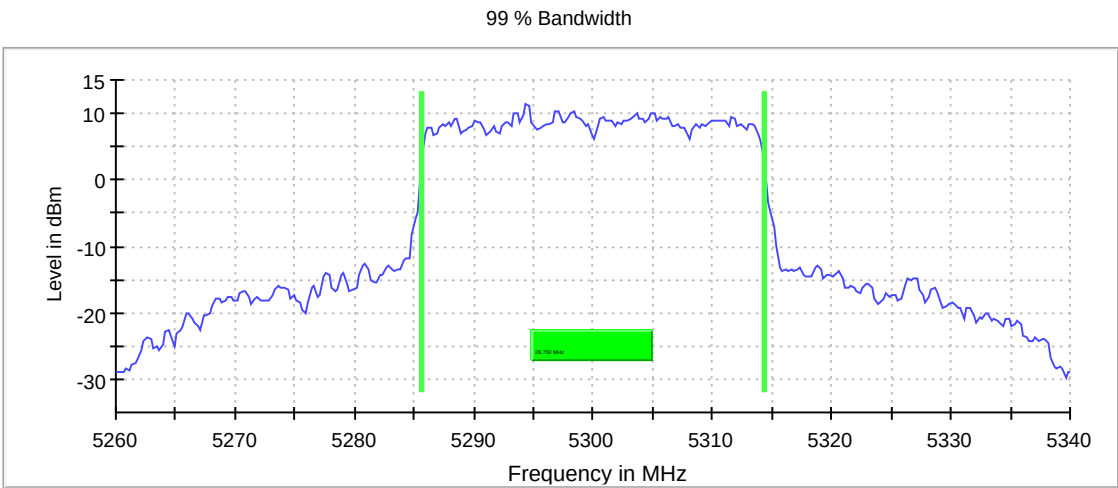
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

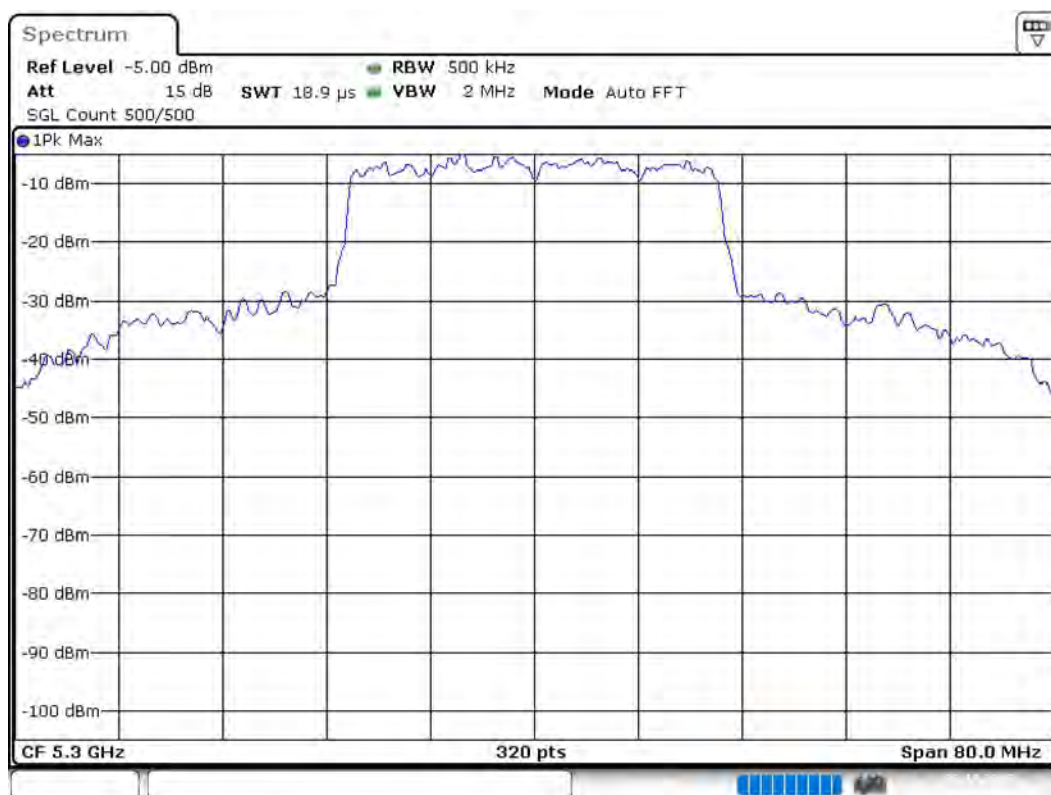
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	28.750000	---	---	5285.625000	5314.375000

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

DUT Frequency (MHz)	Result
5300.000000	PASS



Bandwidth



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Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.26000 GHz	5.26000 GHz
Stop Frequency	5.34000 GHz	5.34000 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	≥ 400.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	320	~ 320
SweepTime	18.906 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5300 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.750000	-24.6	-39.3	-27.0	12.3	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.750000	-24.6	-2.4	-27.0
5351.250000	-24.7	-2.3	-27.0
5350.250000	-24.8	-2.2	-27.0
5353.750000	-26.0	-1.0	-27.0
5353.250000	-26.1	-0.9	-27.0
5351.750000	-26.7	-0.3	-27.0
5354.250000	-26.9	-0.1	-27.0
5354.750000	-27.2	0.2	-27.0
5352.750000	-27.2	0.2	-27.0
5357.250000	-27.3	0.3	-27.0
5356.750000	-27.4	0.4	-27.0
5357.750000	-27.4	0.4	-27.0
5356.250000	-27.7	0.7	-27.0
5355.250000	-28.0	1.0	-27.0
5358.250000	-28.1	1.1	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5300 MHz; (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.250000	-23.6	-42.2	-41.2	1.0	PASS
5351.250000	-29.3	-42.8	-41.2	1.6	PASS
5356.250000	-36.1	-45.1	-41.2	3.9	PASS
5357.250000	-29.5	-45.6	-41.2	4.4	PASS
5361.250000	-38.4	-47.2	-41.2	6.0	PASS
5365.250000	-38.8	-49.0	-41.2	7.8	PASS
5367.750000	-39.6	-49.9	-41.2	8.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.250000	-23.6	-17.6	-41.2
5351.250000	-29.3	-11.9	-41.2
5357.250000	-29.5	-11.7	-41.2
5351.750000	-29.9	-11.3	-41.2
5357.750000	-31.0	-10.2	-41.2
5356.250000	-36.1	-5.1	-41.2
5358.750000	-37.7	-3.5	-41.2
5359.250000	-37.9	-3.3	-41.2
5358.250000	-38.3	-2.9	-41.2
5361.250000	-38.4	-2.8	-41.2
5352.750000	-38.8	-2.4	-41.2
5365.250000	-38.8	-2.4	-41.2
5359.750000	-38.9	-2.3	-41.2
5364.750000	-39.0	-2.2	-41.2
5363.250000	-39.5	-1.7	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5300 MHz; (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5130.750000	-40.5	-49.5	-41.2	8.3	PASS
5136.750000	-38.4	-49.6	-41.2	8.4	PASS
5352.750000	-29.3	-43.0	-41.2	1.8	PASS
5358.250000	-36.2	-45.4	-41.2	4.2	PASS
5360.750000	-40.3	-46.5	-41.2	5.3	PASS
5365.250000	-37.8	-48.2	-41.2	7.0	PASS
5394.750000	-41.0	-50.0	-41.2	8.8	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5352.750000	-29.3	-11.9	-41.2
5353.250000	-31.9	-9.3	-41.2
5353.750000	-32.2	-9.0	-41.2
5351.750000	-33.0	-8.2	-41.2
5354.750000	-33.6	-7.6	-41.2
5354.250000	-34.9	-6.3	-41.2
5351.250000	-35.8	-5.4	-41.2
5358.250000	-36.2	-5.0	-41.2
5358.750000	-36.2	-5.0	-41.2
5350.250000	-36.2	-5.0	-41.2
5357.250000	-36.5	-4.7	-41.2
5352.250000	-37.0	-4.2	-41.2
5356.750000	-37.6	-3.6	-41.2
5365.250000	-37.8	-3.4	-41.2
5136.750000	-38.4	-2.8	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5325 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

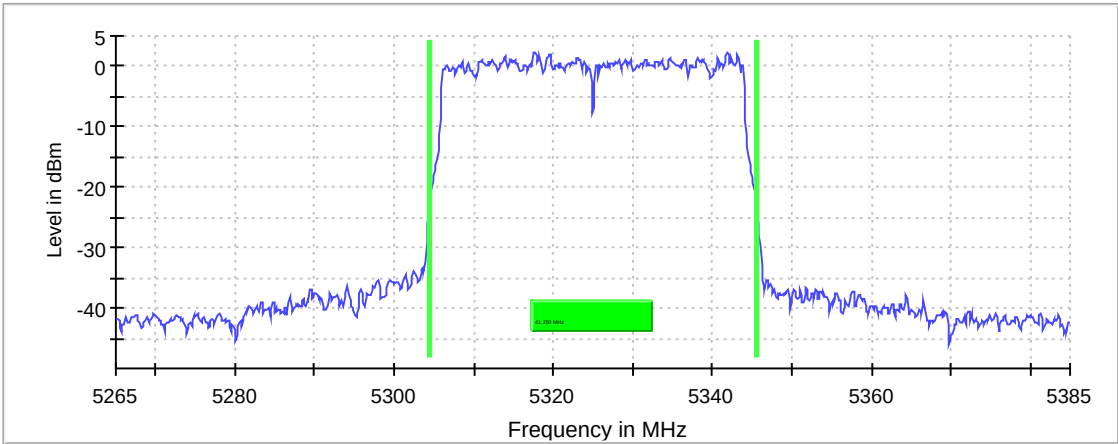
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5325.000000	41.250000	---	---	5304.375000	5345.625000

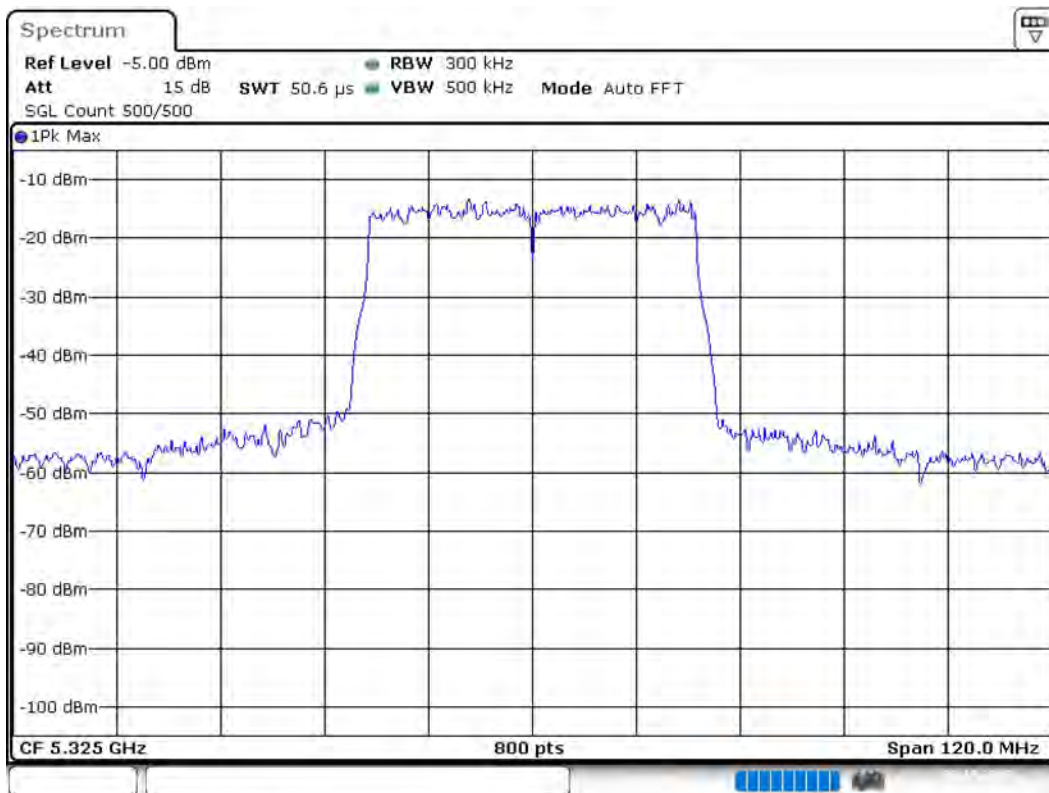
(continuation of the "26 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
5325.000000	2.3	PASS

26 dB Bandwidth



Bandwidth



Date: 3.NOV.2019 08:33:40

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.26500 GHz	5.26500 GHz
Stop Frequency	5.38500 GHz	5.38500 GHz
Span	120.000 MHz	120.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	500.000 kHz	>= 360.000 kHz
SweepPoints	800	~ 800
Sweeptime	50.625 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweptype	FFT	AUTO
Preamp	off	off

RF output power (5325 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5325.000000	22.1	27.0	22.1	99.498	PASS

Power Spectral Density (5325 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5325.000000	5316.683168	2.602	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.30500 GHz	5.30500 GHz
Stop Frequency	5.34500 GHz	5.34500 GHz
Span	40.000 MHz	40.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 80
SweepTime	2.020 ms	2.020 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5325 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

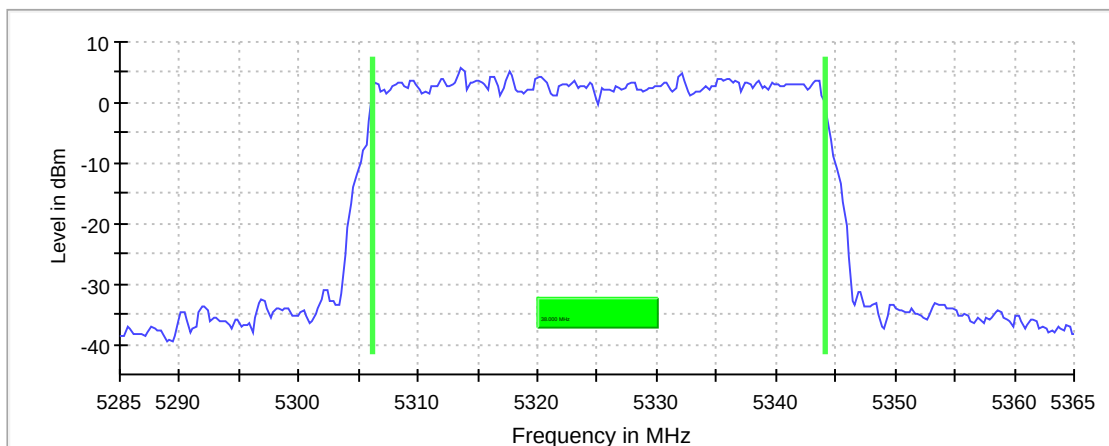
99 % Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5325.000000	38.000000	---	---	5306.125000	5344.125000

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

DUT Frequency (MHz)	Result
5325.000000	PASS

99 % Bandwidth



Bandwidth



Date: 3.NOV.2019 08:34:34

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.28500 GHz	5.28500 GHz
Stop Frequency	5.36500 GHz	5.36500 GHz
Span	80.000 MHz	80.000 MHz
RBW	500.000 kHz	≥ 400.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	320	~ 320
Sweeptime	18.906 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5325 MHz; _____ (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5325.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5354.750000	-24.1	-38.8	-27.0	11.8	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5354.750000	-24.1	-2.9	-27.0
5355.250000	-24.2	-2.8	-27.0
5355.750000	-24.8	-2.2	-27.0
5354.250000	-25.0	-2.0	-27.0
5351.750000	-25.2	-1.8	-27.0
5352.250000	-25.6	-1.4	-27.0
5352.750000	-25.9	-1.1	-27.0
5351.250000	-26.0	-1.0	-27.0
5353.750000	-26.3	-0.7	-27.0
5358.250000	-26.4	-0.6	-27.0
5358.750000	-26.4	-0.6	-27.0
5353.250000	-26.6	-0.4	-27.0
5356.250000	-26.6	-0.4	-27.0
5360.750000	-26.9	-0.1	-27.0
5361.250000	-26.9	-0.1	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	≤ 120.000 kHz
VBW	300.000 kHz	≥ 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Final Measurement 2

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5325 MHz; (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5325.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.250000	-19.9	-44.5	-41.2	3.3	PASS
5352.250000	-20.8	-41.7	-41.2	0.5	PASS
5357.250000	-24.4	-42.1	-41.2	0.9	PASS
5363.750000	-24.1	-42.7	-41.2	1.5	PASS
5375.750000	-30.0	-43.6	-41.2	2.4	PASS
5382.750000	-36.7	-43.7	-41.2	2.5	PASS
5388.750000	-36.6	-47.1	-41.2	5.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.250000	-19.9	-21.3	-41.2
5352.250000	-20.8	-20.4	-41.2
5350.750000	-22.1	-19.1	-41.2
5353.250000	-23.9	-17.3	-41.2
5363.750000	-24.1	-17.1	-41.2
5357.250000	-24.4	-16.8	-41.2
5356.750000	-24.5	-16.7	-41.2
5363.250000	-24.6	-16.6	-41.2
5352.750000	-24.7	-16.5	-41.2
5357.750000	-25.6	-15.6	-41.2
5351.750000	-25.8	-15.4	-41.2
5364.250000	-26.1	-15.1	-41.2
5359.750000	-26.4	-14.8	-41.2
5364.750000	-27.0	-14.2	-41.2
5356.250000	-27.1	-14.1	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5325 MHz; (30 dBm); 40 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5325.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5356.250000	-25.5	-42.2	-41.2	1.0	PASS
5361.250000	-22.9	-42.2	-41.2	1.0	PASS
5367.750000	-24.0	-42.7	-41.2	1.5	PASS
5371.750000	-30.2	-42.9	-41.2	1.7	PASS
5378.250000	-32.1	-43.3	-41.2	2.1	PASS
5380.750000	-35.9	-43.6	-41.2	2.4	PASS
5386.750000	-36.3	-43.8	-41.2	2.6	PASS
5388.750000	-35.1	-47.2	-41.2	6.0	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5361.250000	-22.9	-18.3	-41.2
5361.750000	-22.9	-18.3	-41.2
5367.750000	-24.0	-17.2	-41.2
5367.250000	-24.3	-16.9	-41.2
5356.250000	-25.5	-15.7	-41.2
5368.750000	-25.9	-15.3	-41.2
5369.250000	-26.2	-15.0	-41.2
5358.750000	-26.2	-15.0	-41.2
5359.250000	-26.4	-14.8	-41.2
5363.250000	-26.6	-14.6	-41.2
5352.750000	-27.1	-14.1	-41.2
5353.250000	-27.1	-14.1	-41.2
5355.750000	-27.3	-13.9	-41.2
5356.750000	-27.5	-13.7	-41.2
5357.250000	-27.7	-13.5	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5275 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

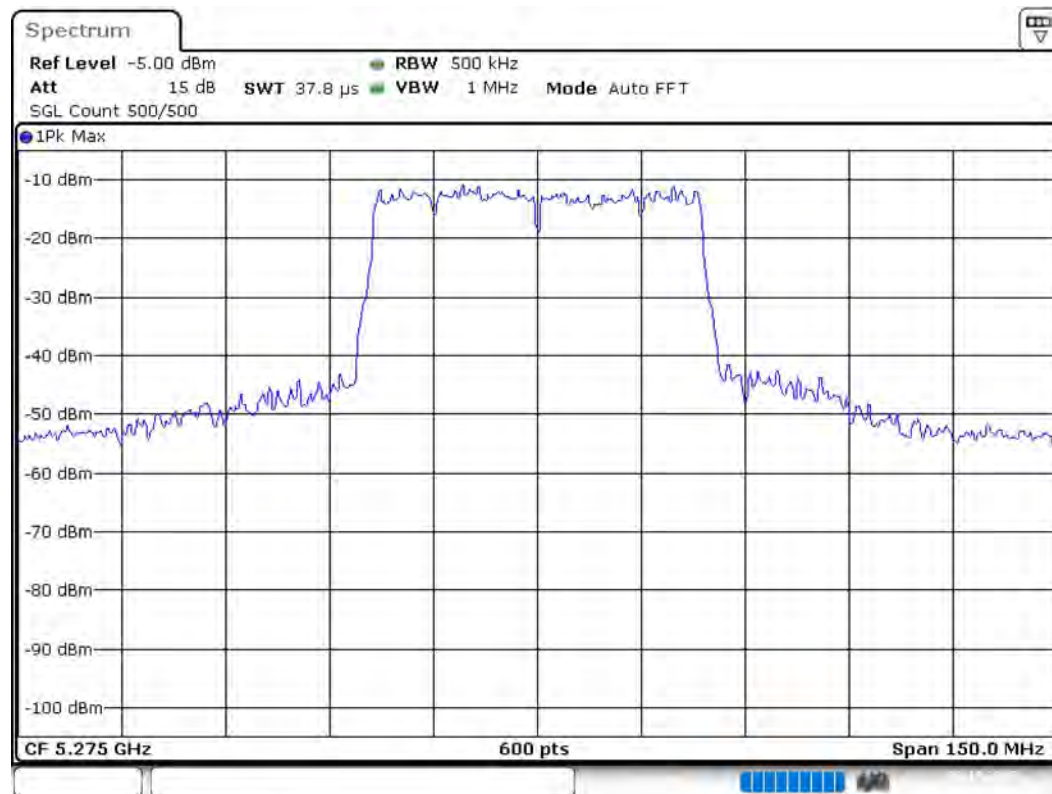
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5275.000000	52.000000	---	---	5248.875000	5300.875000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5275.000000	4.8	PASS

Bandwidth



Date: 3.NOV.2019 16:47:38

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.20000 GHz	5.20000 GHz
Stop Frequency	5.35000 GHz	5.35000 GHz
Span	150.000 MHz	150.000 MHz
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	600	~ 600
SweepTime	37.813 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5275 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5275.000000	22.8	27.0	22.8	99.715	PASS

Power Spectral Density (5275 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5275.000000	5276.980198	2.757	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.25000 GHz	5.25000 GHz
Stop Frequency	5.30000 GHz	5.30000 GHz
Span	50.000 MHz	50.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 100
SweepTime	2.020 ms	2.020 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5275 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

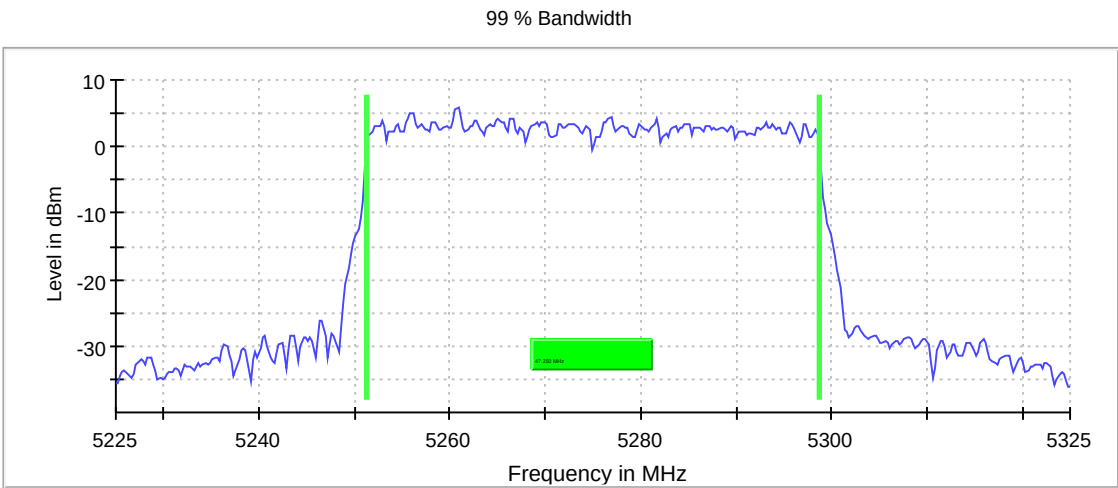
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

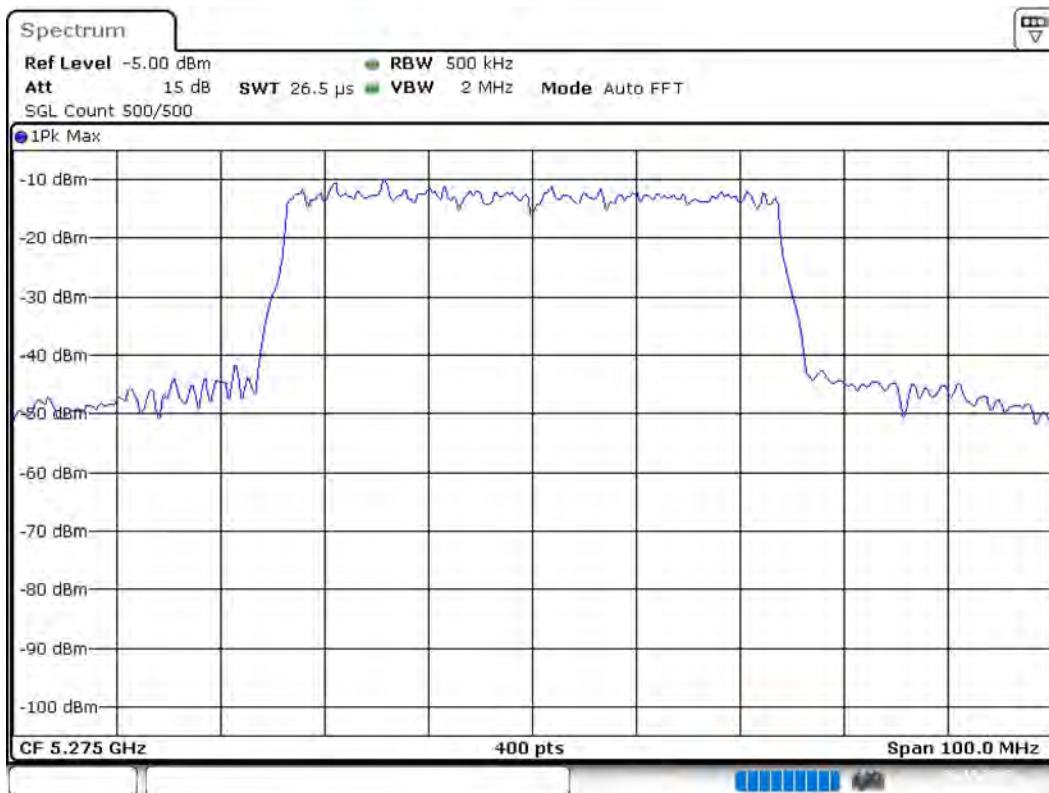
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5275.000000	47.250000	---	---	5251.375000	5298.625000

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

DUT Frequency (MHz)	Result
5275.000000	PASS



Bandwidth



Date: 3.NOV.2019 16:48:33

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22500 GHz	5.22500 GHz
Stop Frequency	5.32500 GHz	5.32500 GHz
Span	100.000 MHz	100.000 MHz
RBW	500.000 kHz	≥ 500.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	400	~ 400
SweepTime	26.469 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5275 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5275.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
1000.000000	-47.5	1.6	-45.9
5351.750000	-30.3	3.3	-27.0
5351.250000	-30.5	3.5	-27.0
5352.250000	-30.6	3.6	-27.0
5350.750000	-30.9	3.9	-27.0
5352.750000	-31.0	4.0	-27.0
5350.250000	-31.0	4.0	-27.0
5353.250000	-31.1	4.1	-27.0
5354.250000	-31.6	4.6	-27.0
5353.750000	-31.7	4.7	-27.0
5354.750000	-32.6	5.6	-27.0
76.025000	-65.6	5.7	-59.9
72.275000	-66.2	6.3	-59.9
36.225000	-66.3	6.4	-59.9
53.175000	-66.3	6.4	-59.9

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5275 MHz; ____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5275.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5351.750000	-35.5	-41.5	-41.2	0.3	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5351.750000	-35.5	-5.7	-41.2
5354.750000	-36.7	-4.5	-41.2
5353.750000	-38.7	-2.5	-41.2
5352.750000	-39.0	-2.2	-41.2
5354.250000	-39.3	-1.9	-41.2
5353.250000	-40.1	-1.1	-41.2
5350.750000	-41.2	0.0	-41.2
5352.250000	-41.7	0.5	-41.2
5350.250000	-41.8	0.6	-41.2
5351.250000	-41.9	0.7	-41.2
5362.250000	-42.3	1.1	-41.2
5355.750000	-43.0	1.8	-41.2
5355.250000	-43.8	2.6	-41.2
5360.750000	-44.7	3.5	-41.2
5356.250000	-44.9	3.7	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	≤ 300.000 Hz
VBW	1.000 kHz	≥ 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5275 MHz; (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5275.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5351.250000	-34.0	-42.0	-41.2	0.8	PASS
5352.750000	-33.4	-41.6	-41.2	0.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5352.750000	-33.4	-7.8	-41.2
5351.250000	-34.0	-7.2	-41.2
5350.750000	-34.3	-6.9	-41.2
5352.250000	-35.0	-6.2	-41.2
5353.750000	-37.8	-3.4	-41.2
5354.250000	-38.7	-2.5	-41.2
5350.250000	-38.9	-2.3	-41.2
5354.750000	-39.5	-1.7	-41.2
5351.750000	-40.3	-0.9	-41.2
5355.250000	-42.7	1.5	-41.2
5096.250000	-43.3	2.1	-41.2
5371.750000	-43.5	2.3	-41.2
5110.750000	-43.5	2.3	-41.2
5353.250000	-43.7	2.5	-41.2
5096.750000	-44.9	3.7	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5300 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

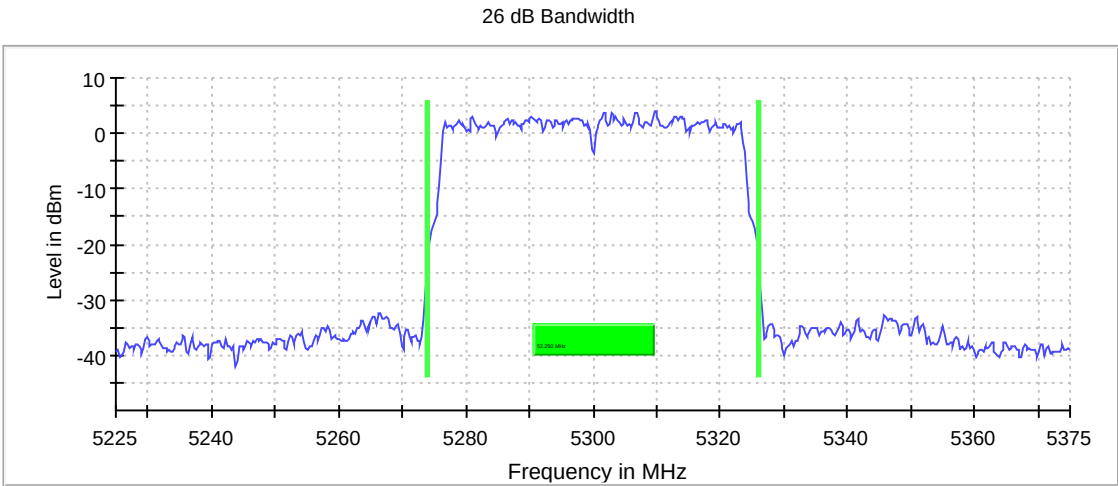
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

26 dB Bandwidth

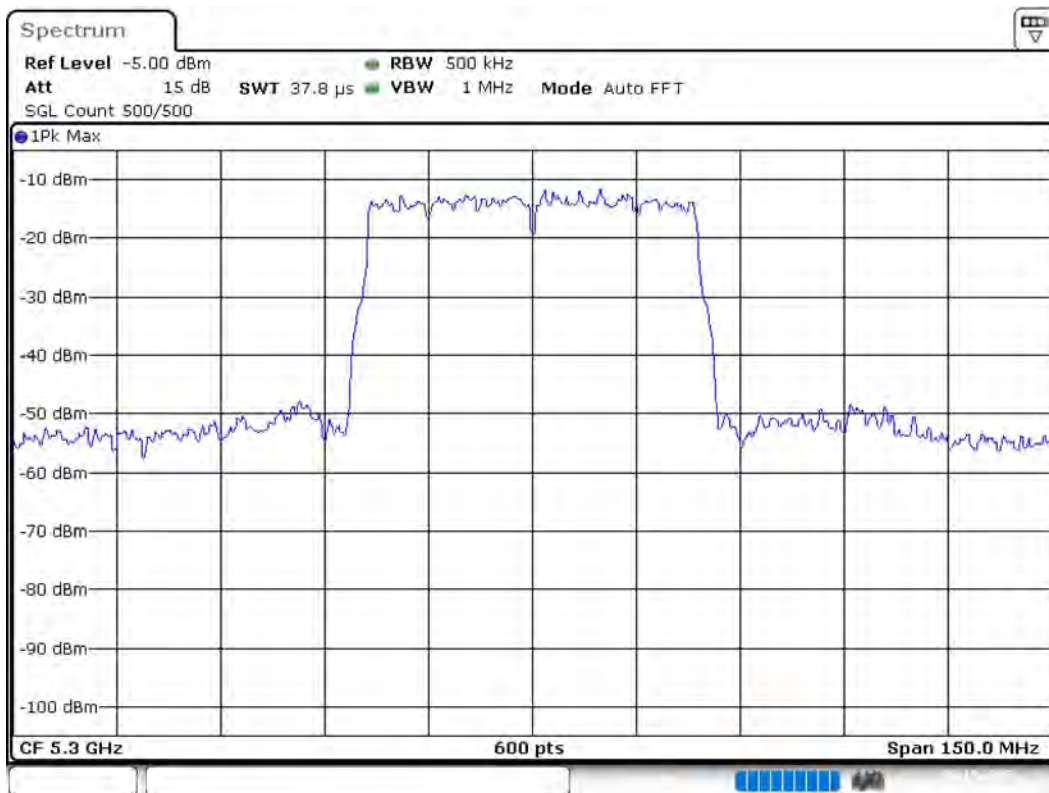
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	52.250000	---	---	5273.875000	5326.125000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5300.000000	4.2	PASS



Bandwidth



Date: 3.NOV.2019 17:29:04

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22500 GHz	5.22500 GHz
Stop Frequency	5.37500 GHz	5.37500 GHz
Span	150.000 MHz	150.000 MHz
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	600	~ 600
SweepTime	37.813 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5300 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5300.000000	21.9	27.0	21.9	99.718	PASS

Power Spectral Density (5300 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5300.000000	5303.465347	2.025	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27500 GHz	5.27500 GHz
Stop Frequency	5.32500 GHz	5.32500 GHz
Span	50.000 MHz	50.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 100
SweepTime	2.020 ms	2.020 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5300 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

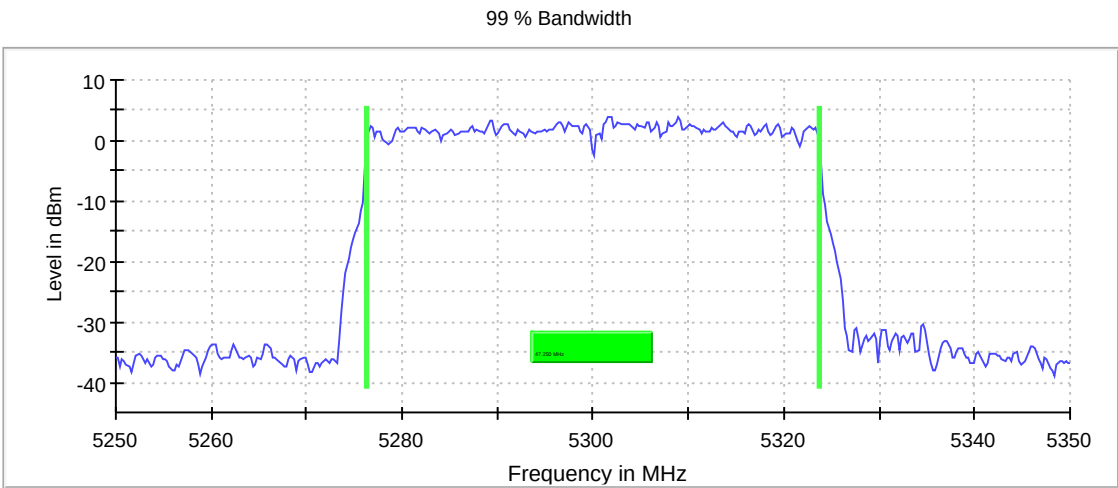
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

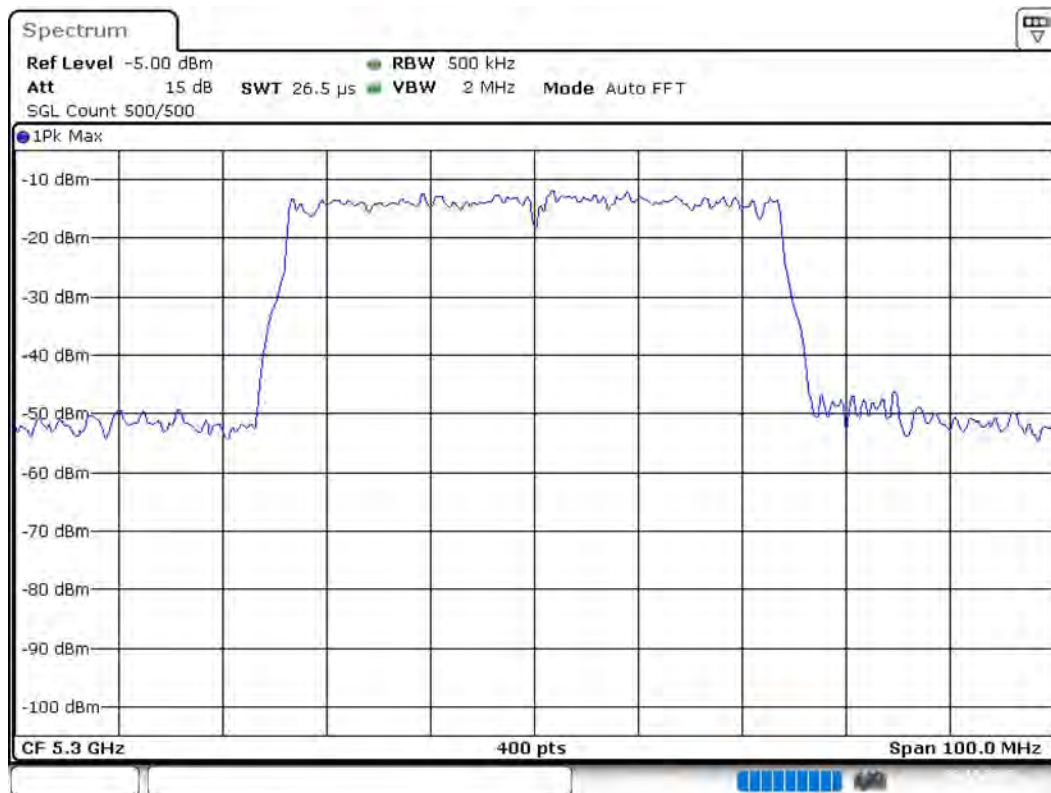
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5300.000000	47.250000	---	---	5276.375000	5323.625000

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

DUT Frequency (MHz)	Result
5300.000000	PASS



Bandwidth



Date: 3.NOV.2019 17:30:00

Measurement

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	500.000 kHz	≥ 500.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	400	~ 400
SweepTime	26.469 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5300 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.750000	-29.0	2.0	-27.0
5351.250000	-29.0	2.0	-27.0
5375.250000	-29.2	2.2	-27.0
5375.750000	-29.2	2.2	-27.0
5352.250000	-29.3	2.3	-27.0
5368.250000	-29.3	2.3	-27.0
5352.750000	-29.4	2.4	-27.0
5371.750000	-29.4	2.4	-27.0
5378.250000	-29.4	2.4	-27.0
5373.250000	-29.4	2.4	-27.0
5362.750000	-29.5	2.5	-27.0
5377.250000	-29.5	2.5	-27.0
5354.250000	-29.5	2.5	-27.0
5371.250000	-29.5	2.5	-27.0
5353.750000	-29.5	2.5	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	25.000 dB	25.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5300 MHz; (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5352.750000	-24.6	-41.4	-41.2	0.2	PASS
5356.250000	-25.2	-43.8	-41.2	2.6	PASS
5362.250000	-30.6	-41.9	-41.2	0.7	PASS
5371.750000	-36.2	-42.3	-41.2	1.1	PASS
5375.750000	-34.8	-42.4	-41.2	1.2	PASS
5377.250000	-34.7	-42.6	-41.2	1.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5352.750000	-24.6	-16.6	-41.2
5352.250000	-24.8	-16.4	-41.2
5356.250000	-25.2	-16.0	-41.2
5350.250000	-27.9	-13.3	-41.2
5358.250000	-29.4	-11.8	-41.2
5358.750000	-29.6	-11.6	-41.2
5362.250000	-30.6	-10.6	-41.2
5361.250000	-31.0	-10.2	-41.2
5350.750000	-31.0	-10.2	-41.2
5351.750000	-31.1	-10.1	-41.2
5354.250000	-31.4	-9.8	-41.2
5351.250000	-31.8	-9.4	-41.2
5356.750000	-32.7	-8.5	-41.2
5353.250000	-32.7	-8.5	-41.2
5355.750000	-32.8	-8.4	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5300 MHz; (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5300.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5350.250000	-25.3	-41.8	-41.2	0.6	PASS
5354.250000	-29.7	-41.6	-41.2	0.4	PASS
5355.750000	-29.5	-43.7	-41.2	2.5	PASS
5359.250000	-24.5	-41.8	-41.2	0.6	PASS
5361.750000	-25.9	-42.0	-41.2	0.8	PASS
5368.250000	-34.3	-41.9	-41.2	0.7	PASS
5376.750000	-36.1	-42.3	-41.2	1.1	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5359.250000	-24.5	-16.7	-41.2
5350.250000	-25.3	-15.9	-41.2
5361.750000	-25.9	-15.3	-41.2
5358.750000	-27.7	-13.5	-41.2
5350.750000	-28.2	-13.0	-41.2
5351.250000	-29.5	-11.7	-41.2
5355.750000	-29.5	-11.7	-41.2
5354.250000	-29.7	-11.5	-41.2
5360.250000	-31.2	-10.0	-41.2
5357.250000	-31.7	-9.5	-41.2
5362.250000	-31.9	-9.3	-41.2
5357.750000	-32.5	-8.7	-41.2
5353.250000	-33.4	-7.8	-41.2
5368.250000	-34.3	-6.9	-41.2
5355.250000	-34.3	-6.9	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emission Bandwidth 26 dB (5320 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

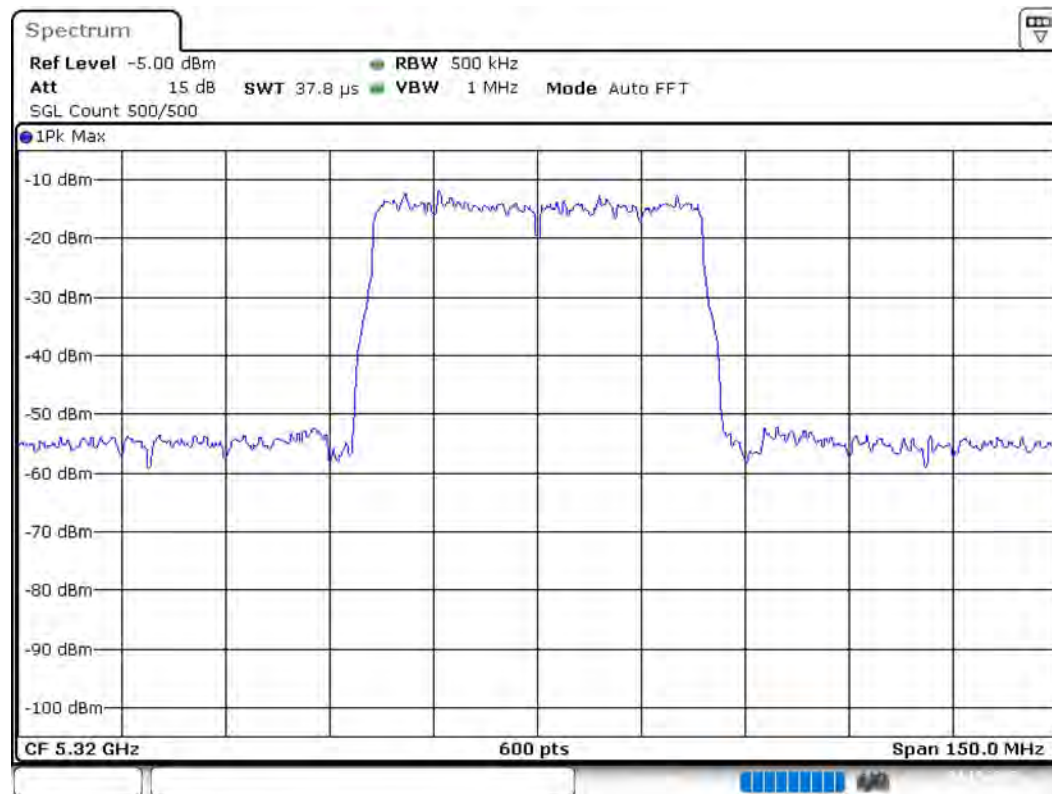
26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	52.000000	---	---	5294.125000	5346.125000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
5320.000000	3.9	PASS

Bandwidth



Date: 4.NOV.2019 02:35:47

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.24500 GHz	5.24500 GHz
Stop Frequency	5.39500 GHz	5.39500 GHz
Span	150.000 MHz	150.000 MHz
RBW	500.000 kHz	~ 500.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	600	~ 600
SweepTime	37.813 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

RF output power (5320 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.E and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Combined Uncertainty of absolute Level Measurement (K=2) < 1 dB

Result

DUT Frequency (MHz)	Gated RMS (dBm)	Limit Max (dBm)	Gated EIRP (dBm)	DutyCycle (%)	Result
5320.000000	21.3	27.0	21.3	99.718	PASS

Power Spectral Density (5320 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.3 dB

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5320.000000	5310.099010	1.022	11.0	PASS

Ports

Port	Duty Cycle (%)
1	0.000
2	0.000

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.29500 GHz	5.29500 GHz
Stop Frequency	5.34500 GHz	5.34500 GHz
Span	50.000 MHz	50.000 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 100
SweepTime	2.020 ms	2.020 ms
Reference Level	10.000 dBm	10.000 dBm
Attenuation	30.000 dB	AUTO
Detector	RMS	RMS
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off

Occupied Channel Bandwidth 99% (5320 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 D and ANSI C63.10-2013

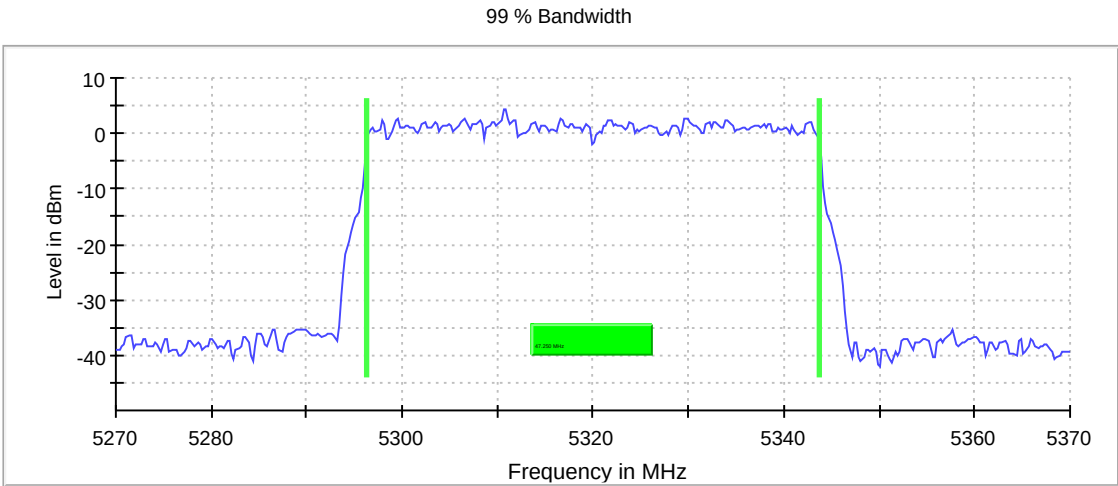
Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 2%

99 % Bandwidth

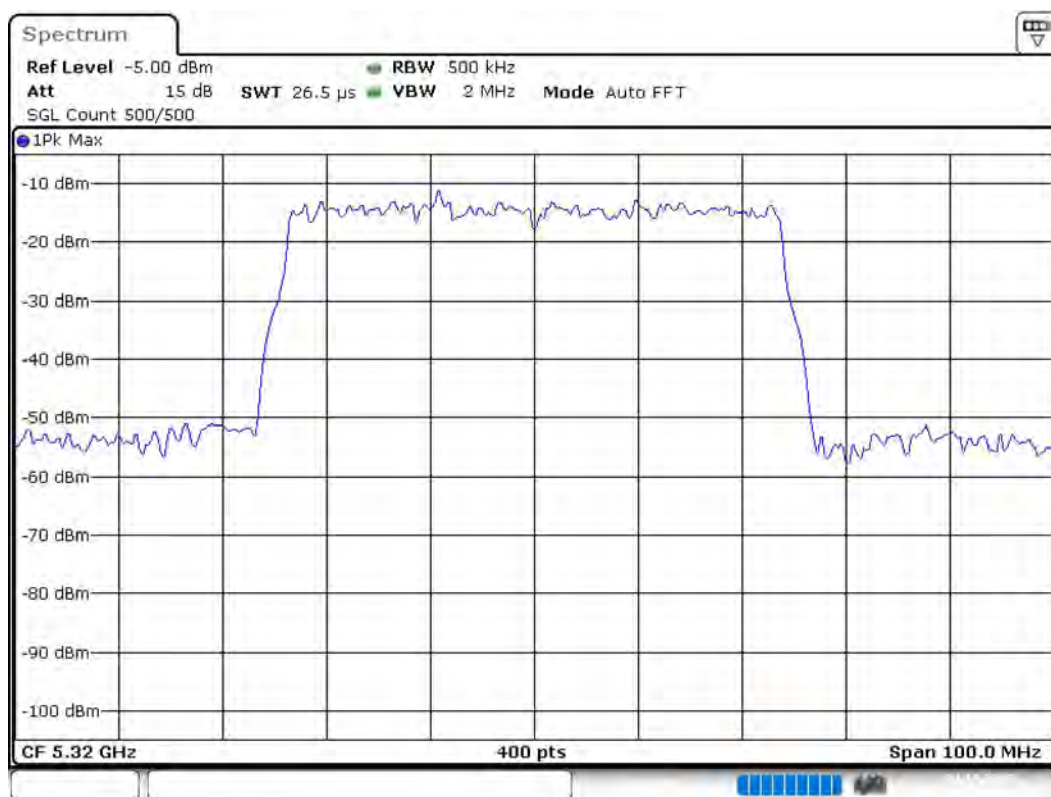
DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
5320.000000	47.250000	---	---	5296.375000	5343.625000

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

DUT Frequency (MHz)	Result
5320.000000	PASS



Bandwidth



Date: 4.NOV.2019 02:36:44

Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.27000 GHz	5.27000 GHz
Stop Frequency	5.37000 GHz	5.37000 GHz
Span	100.000 MHz	100.000 MHz
RBW	500.000 kHz	≥ 500.000 kHz
VBW	2.000 MHz	≥ 1.500 MHz
SweepPoints	400	~ 400
Sweeptime	26.469 μ s	AUTO
Reference Level	-5.000 dBm	-5.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweptype	FFT	AUTO
Preamp	off	off

Tx Spurious Emission (5320 MHz; _____ (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.4&5 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.

Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5320.000000	PASS

Final measurements

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

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5356.250000	-28.0	1.0	-27.0
5355.750000	-28.2	1.2	-27.0
5373.250000	-28.2	1.2	-27.0
5369.250000	-28.3	1.3	-27.0
1000.000000	-47.4	1.5	-45.9
5372.750000	-28.8	1.8	-27.0
5368.750000	-28.9	1.9	-27.0
5361.750000	-29.0	2.0	-27.0
5355.250000	-29.0	2.0	-27.0
5373.750000	-29.0	2.0	-27.0
5369.750000	-29.1	2.1	-27.0
5356.750000	-29.2	2.2	-27.0
5377.750000	-29.2	2.2	-27.0
5362.250000	-29.2	2.2	-27.0
5377.250000	-29.3	2.3	-27.0

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	1	1
1000.000000	5150.000000	2	2
5150.000000	5250.000000	2	2
5250.000000	5350.000000	2	2
5350.000000	5470.000000	2	2
5470.000000	5725.000000	2	2
5725.000000	5850.000000	2	2
5850.000000	7000.000000	2	2
7000.000000	18000.000000	2	2
18000.000000	26000.000000	2	2
26000.000000	40000.000000	2	2

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	100.000 kHz	<= 120.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	19400	~ 19400
SweepTime	19.400 s	AUTO
Reference Level	10.000 dBm	AUTO
Attenuation	20.000 dB	20.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	Channel	Channel
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	8300	~ 8300
SweepTime	8.300 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average) (5320 MHz; (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5320.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5351.250000	-23.4	-48.2	-41.2	7.0	PASS
5354.250000	-23.6	-42.0	-41.2	0.8	PASS
5360.250000	-24.4	-42.0	-41.2	0.8	PASS
5361.750000	-23.7	-42.1	-41.2	0.9	PASS
5367.250000	-27.0	-42.2	-41.2	1.0	PASS
5373.250000	-28.9	-42.4	-41.2	1.2	PASS
5375.750000	-28.2	-44.8	-41.2	3.6	PASS
5381.250000	-28.6	-42.8	-41.2	1.6	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5351.250000	-23.4	-17.8	-41.2
5354.250000	-23.6	-17.6	-41.2
5361.750000	-23.7	-17.5	-41.2
5353.750000	-23.8	-17.4	-41.2
5354.750000	-23.8	-17.4	-41.2
5351.750000	-23.9	-17.3	-41.2
5360.250000	-24.4	-16.8	-41.2
5362.750000	-24.5	-16.7	-41.2
5355.250000	-25.9	-15.3	-41.2
5362.250000	-26.4	-14.8	-41.2
5359.250000	-26.8	-14.4	-41.2
5350.250000	-26.8	-14.4	-41.2
5358.750000	-26.9	-14.3	-41.2
5367.250000	-27.0	-14.2	-41.2
5352.250000	-27.1	-14.1	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2
0.150000	0.490000	2	2
0.490000	30.000000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Emissions in restricted frequency bands (Average)(2) (5320 MHz; (30 dBm); 50 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 II.G.1 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.
Expanded Uncertainty (K=2) < 1.8 dB

Result

DUT Frequency (MHz)	Result
5320.000000	PASS

Final measurements

Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5351.250000	-27.1	-48.7	-41.2	7.5	PASS
5353.250000	-23.7	-42.3	-41.2	1.1	PASS
5356.250000	-22.7	-42.5	-41.2	1.3	PASS
5360.750000	-22.9	-42.4	-41.2	1.2	PASS
5364.750000	-27.0	-42.5	-41.2	1.3	PASS
5368.250000	-25.7	-42.3	-41.2	1.1	PASS
5369.750000	-27.1	-42.6	-41.2	1.4	PASS
5373.750000	-26.0	-42.5	-41.2	1.3	PASS
5380.750000	-30.3	-42.4	-41.2	1.2	PASS
5392.250000	-34.9	-43.1	-41.2	1.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5356.250000	-22.7	-18.5	-41.2
5360.750000	-22.9	-18.3	-41.2
5356.750000	-23.1	-18.1	-41.2
5354.250000	-23.4	-17.8	-41.2
5354.750000	-23.6	-17.6	-41.2
5353.250000	-23.7	-17.5	-41.2
5355.250000	-24.1	-17.1	-41.2
5359.250000	-24.1	-17.1	-41.2
5358.750000	-24.4	-16.8	-41.2
5358.250000	-24.4	-16.8	-41.2
5360.250000	-25.6	-15.6	-41.2
5368.250000	-25.7	-15.5	-41.2
5367.750000	-25.9	-15.3	-41.2
5373.750000	-26.0	-15.2	-41.2
5364.750000	-27.0	-14.2	-41.2

Measurement Settings

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.009000	0.090000	2	2
0.090000	0.110000	2	2
0.110000	0.150000	2	2

Start Frequency (MHz)	Stop Frequency (MHz)	Pre Measurement	Final Measurement
0.150000	0.490000	2	2
0.490000	30.000000	2	2
30.000000	1000.000000	2	2
1000.000000	2000.000000	1	1
2000.000000	5150.000000	1	1
5150.000000	5850.000000	1	1
5850.000000	12000.000000	1	1
12000.000000	26000.000000	1	1
26000.000000	36600.000000	1	1

Pre Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	2000	~ 2000
SweepTime	2.000 ms	AUTO
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	30.000 dB	30.000 dB
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off

Pre Measurement 2

Setting	Instrument Value	Target Value
RBW	300.000 Hz	<= 300.000 Hz
VBW	1.000 kHz	>= 900.000 Hz
SweepPoints	540	~ 540
SweepTime	6.322 ms	AUTO
Reference Level	-20.000 dBm	-30.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	30	30
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off

Final Measurement 1

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	30.000 Hz	~ 30.000 Hz
SweepPoints	101	~ 101
SweepTime	1.000 s	1.000 s
Reference Level	-10.000 dBm	-30.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off