

UNII-1 Ant0 A mode

Power Spectral Density (5180 MHz; 21.8905 MHz)

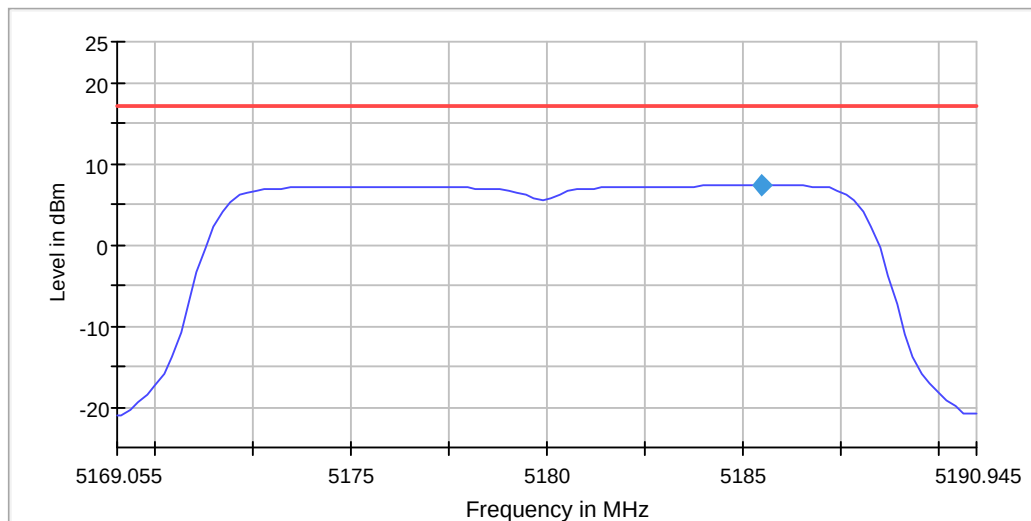
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5185.472625	7.292	17.0	PASS

Ports

Port	Duty Cycle (%)
1	96.341



Measurement

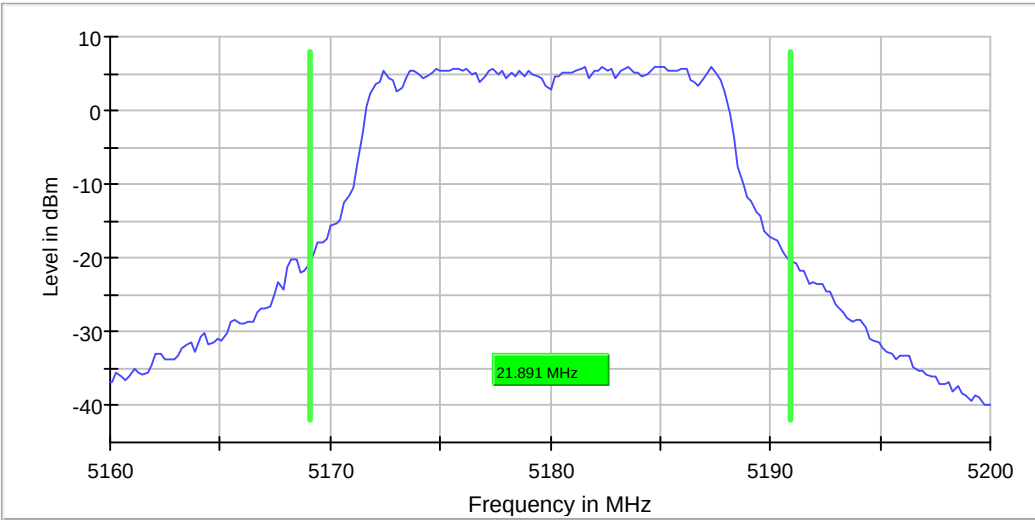
Setting	Instrument Value	Target Value
Start Frequency	5.16905 GHz	5.16905 GHz
Stop Frequency	5.19095 GHz	5.19095 GHz
Span	21.891 MHz	21.891 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 44
SweepTime	2.020 s	2.020 s
Reference Level	-10.000 dBm	-20.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5180.000000	21.890548	---	---	5169.054726	5190.945274	5.9	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	33 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

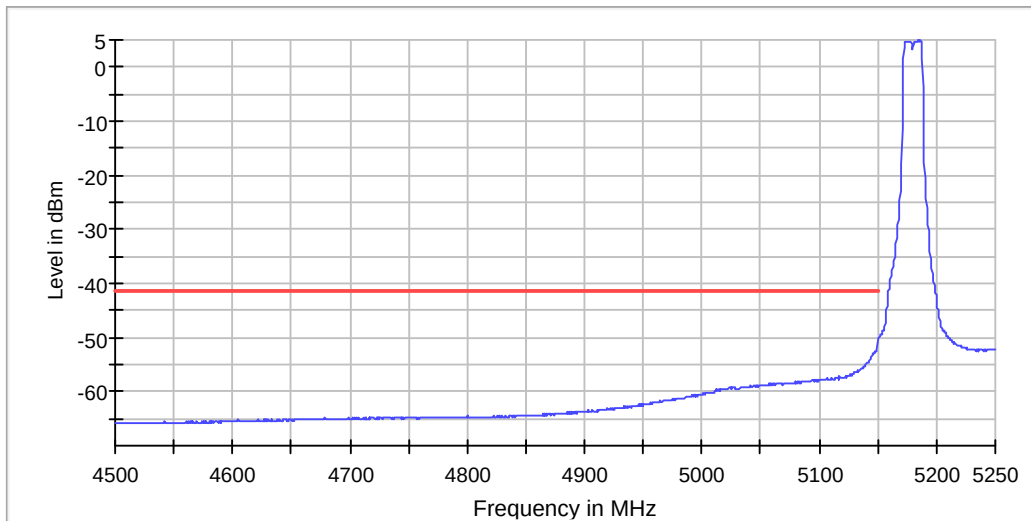
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5185.572139	4.9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-52.1	10.9	-41.2	PASS
5148.750961	-52.2	11.0	-41.2	PASS
5148.251345	-52.4	11.2	-41.2	PASS
5147.751729	-52.6	11.3	-41.2	PASS
5147.252114	-52.7	11.5	-41.2	PASS
5146.752498	-52.9	11.7	-41.2	PASS
5146.252882	-53.0	11.7	-41.2	PASS
5145.753267	-53.3	12.1	-41.2	PASS
5145.253651	-53.4	12.2	-41.2	PASS
5144.754035	-53.4	12.2	-41.2	PASS
5144.254420	-53.9	12.6	-41.2	PASS
5143.255188	-53.9	12.7	-41.2	PASS
5143.754804	-53.9	12.7	-41.2	PASS
5142.755573	-54.2	13.0	-41.2	PASS
5142.255957	-54.3	13.1	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5180.000000	PASS

Final measurements

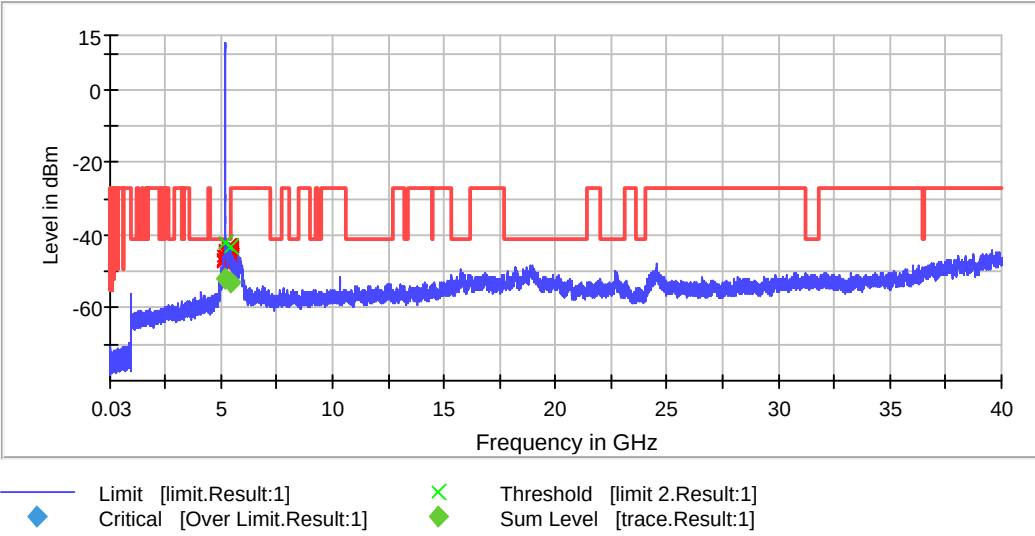
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-42.0	-52.2	-41.2	11.0	PASS
5407.024793	-43.1	-53.2	-41.2	12.0	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5148.500361	-42.0	0.8	-41.2
5407.024793	-43.1	1.9	-41.2
5380.247934	-43.1	1.9	-41.2
5351.487603	-43.1	1.9	-41.2
5357.438017	-43.2	1.9	-41.2
5365.371901	-43.4	2.1	-41.2
5366.363636	-43.4	2.2	-41.2
5352.479339	-43.5	2.2	-41.2
5390.165289	-43.5	2.2	-41.2
5381.239669	-43.5	2.3	-41.2
5408.016529	-43.7	2.5	-41.2
5399.090909	-43.8	2.5	-41.2
5369.338843	-43.8	2.6	-41.2
5368.347107	-43.8	2.6	-41.2
5383.223140	-43.9	2.7	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 22.4876 MHz)

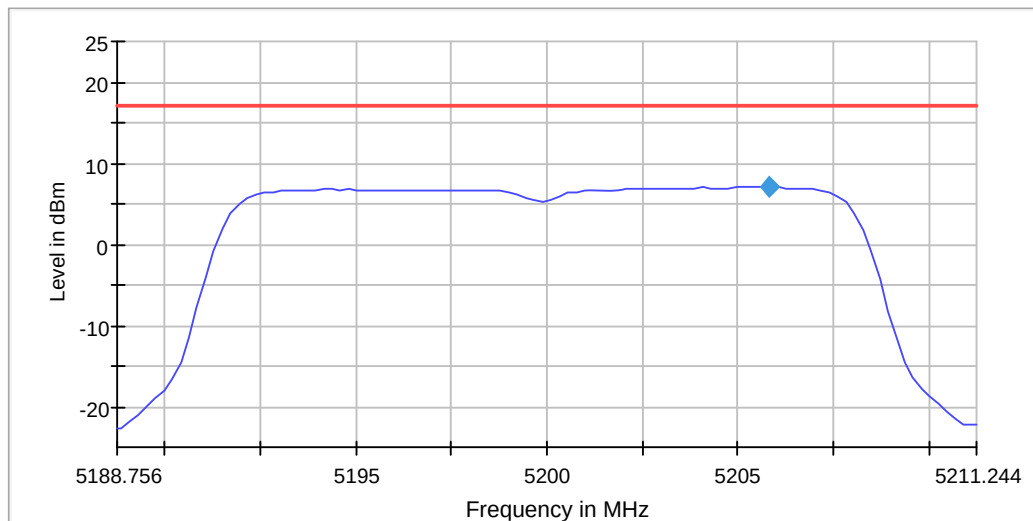
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5205.842367	7.016	17.0	PASS

Ports

Port	Duty Cycle (%)
1	96.301



Measurement

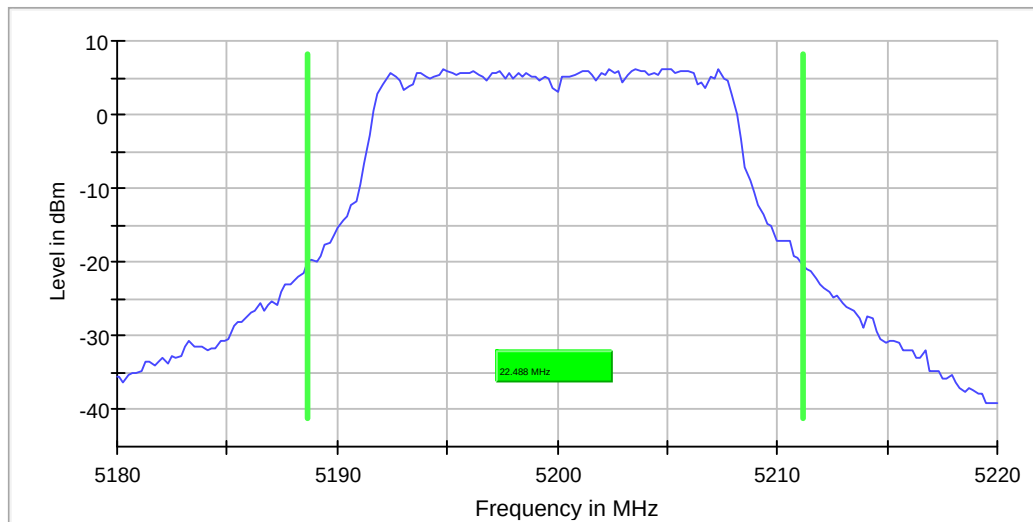
Setting	Instrument Value	Target Value
Start Frequency	5.18876 GHz	5.18876 GHz
Stop Frequency	5.21124 GHz	5.21124 GHz
Span	22.488 MHz	22.488 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-10.000 dBm	-20.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5200.000000	22.487563	---	---	5188.656716	5211.144279	6.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	60 / max. 150	max. 150
Stable	5 / 5	5

Tx Spurious Emission (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5200.000000	PASS

Final measurements

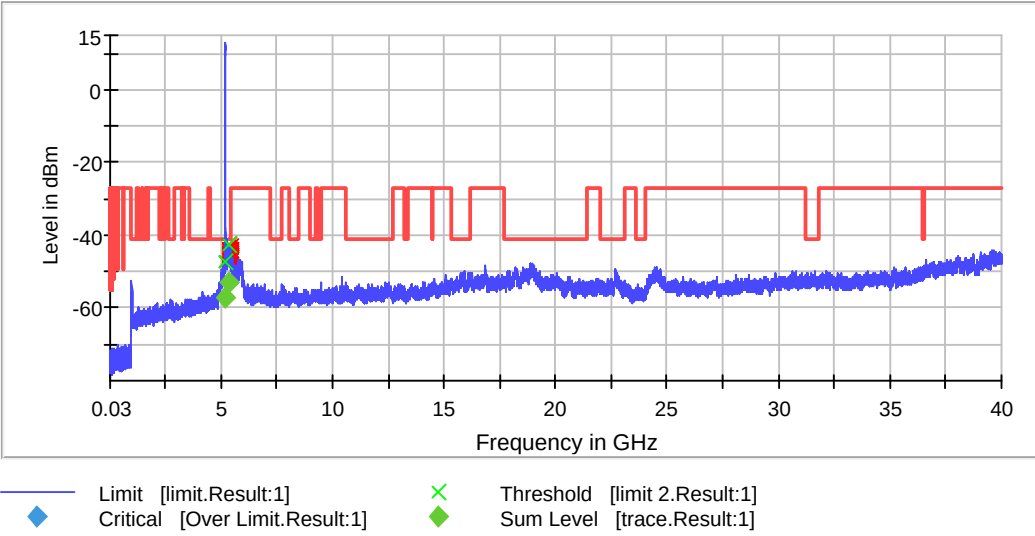
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5147.500602	-47.2	-57.0	-41.2	15.7	PASS
5351.487603	-42.4	-52.8	-41.2	11.6	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5351.487603	-42.4	1.2	-41.2
5365.371901	-42.9	1.6	-41.2
5406.033058	-43.3	2.1	-41.2
5370.330579	-43.5	2.3	-41.2
5362.396694	-43.6	2.4	-41.2
5379.256198	-43.6	2.4	-41.2
5388.181818	-43.6	2.4	-41.2
5380.247934	-43.7	2.5	-41.2
5350.495868	-43.8	2.5	-41.2
5350.000000	-43.8	2.5	-41.2
5358.429752	-43.8	2.6	-41.2
5352.479339	-43.8	2.6	-41.2
5399.090909	-44.0	2.8	-41.2
5387.190083	-44.0	2.8	-41.2
5400.082645	-44.1	2.8	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5240 MHz; 23.0846 MHz)

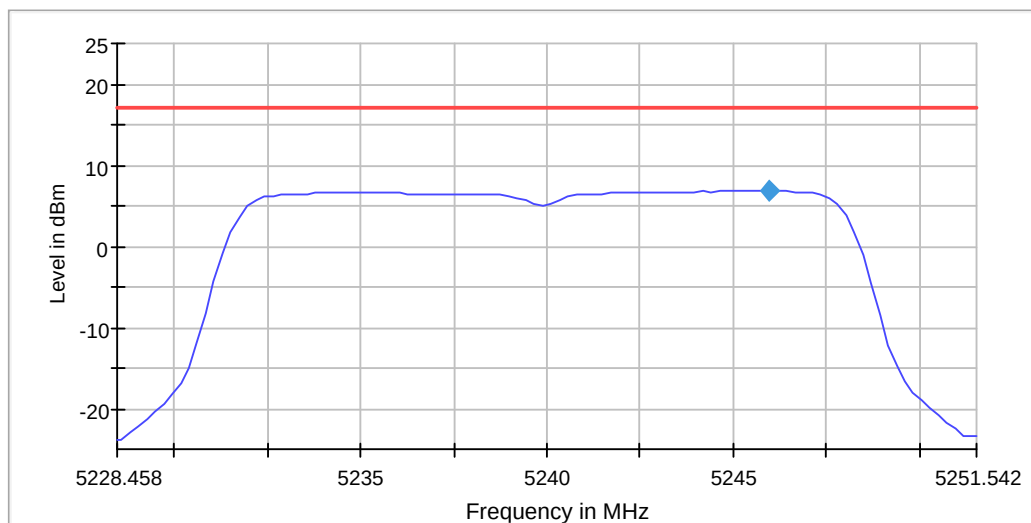
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5245.997470	6.851	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.838



Measurement

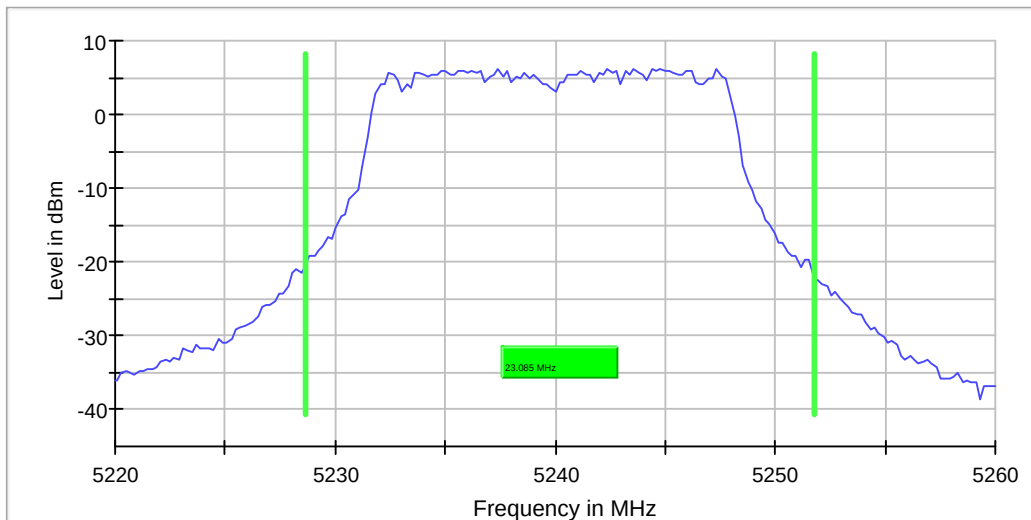
Setting	Instrument Value	Target Value
Start Frequency	5.22846 GHz	5.22846 GHz
Stop Frequency	5.25154 GHz	5.25154 GHz
Span	23.085 MHz	23.085 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-10.000 dBm	-20.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5240.000000	23.084578	---	---	5228.656716	5251.741294	6.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	62 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

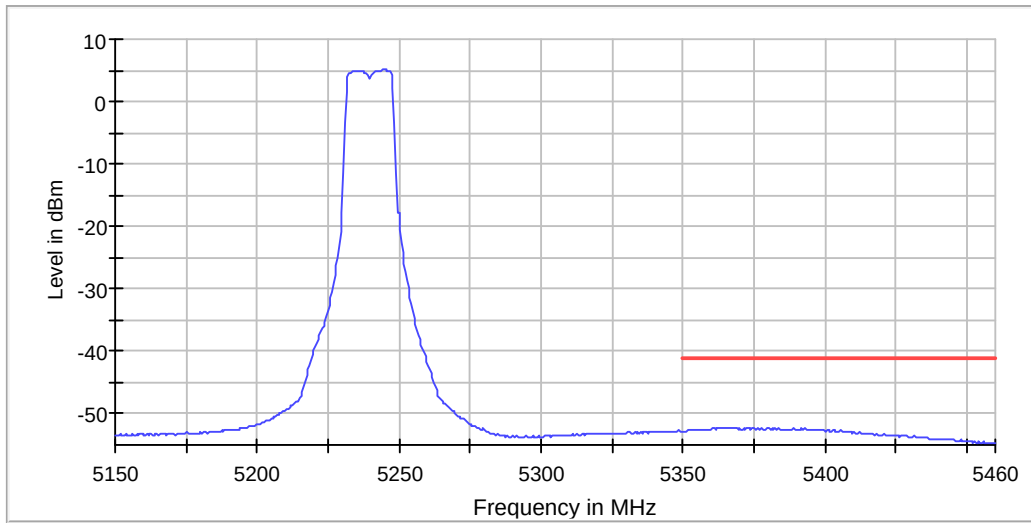
DUT Frequency (MHz)	Result
5240.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5245.273632	5.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5362.980998	-52.2	10.9	-41.2	PASS
5377.945368	-52.3	11.0	-41.2	PASS
5364.976247	-52.3	11.1	-41.2	PASS
5364.477435	-52.3	11.1	-41.2	PASS
5377.446556	-52.3	11.1	-41.2	PASS
5365.973872	-52.3	11.1	-41.2	PASS
5367.470309	-52.3	11.1	-41.2	PASS
5383.432304	-52.3	11.1	-41.2	PASS
5366.472684	-52.3	11.1	-41.2	PASS
5361.983373	-52.4	11.1	-41.2	PASS
5373.456057	-52.4	11.1	-41.2	PASS
5383.931116	-52.4	11.1	-41.2	PASS
5391.912114	-52.4	11.1	-41.2	PASS
5382.434679	-52.4	11.1	-41.2	PASS
5374.453682	-52.4	11.2	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5240.000000	PASS

Final measurements

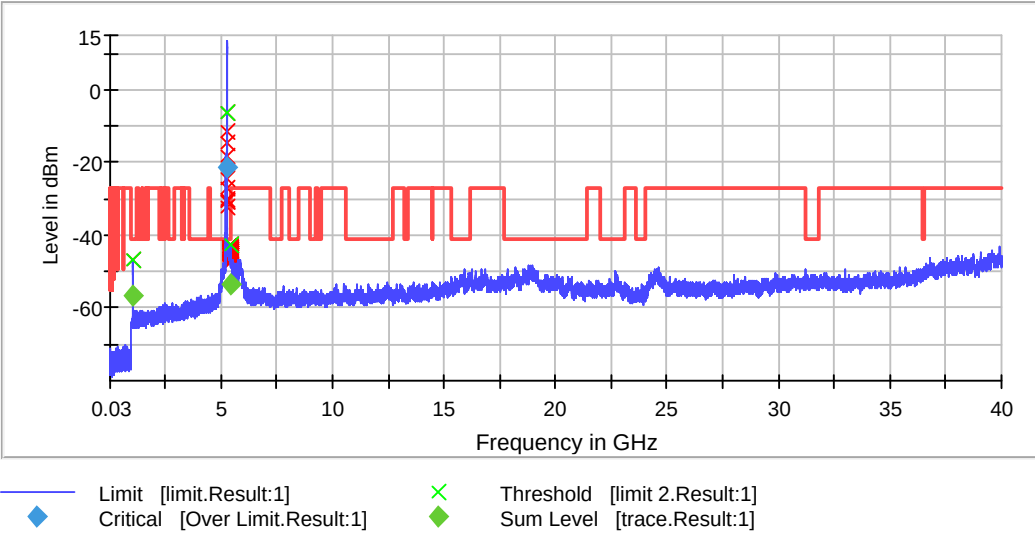
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
1035.491448	-46.7	-56.6	-41.2	15.4	PASS
5425.867769	-42.8	-53.4	-41.2	12.2	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5425.867769	-42.8	1.6	-41.2
5375.289256	-42.9	1.7	-41.2
5384.214876	-43.1	1.9	-41.2
5367.355372	-43.1	1.9	-41.2
5424.876033	-43.3	2.0	-41.2
5385.206612	-43.3	2.0	-41.2
5361.404959	-43.3	2.1	-41.2
5366.363636	-43.4	2.1	-41.2
5365.371901	-43.4	2.2	-41.2
5350.000000	-43.4	2.2	-41.2
5414.958678	-43.5	2.2	-41.2
5388.181818	-43.6	2.4	-41.2
5392.148760	-43.7	2.5	-41.2
5374.297521	-43.8	2.6	-41.2
5399.090909	-43.9	2.7	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant0 AC mode 20

Power Spectral Density (5180 MHz; 22.8856 MHz)

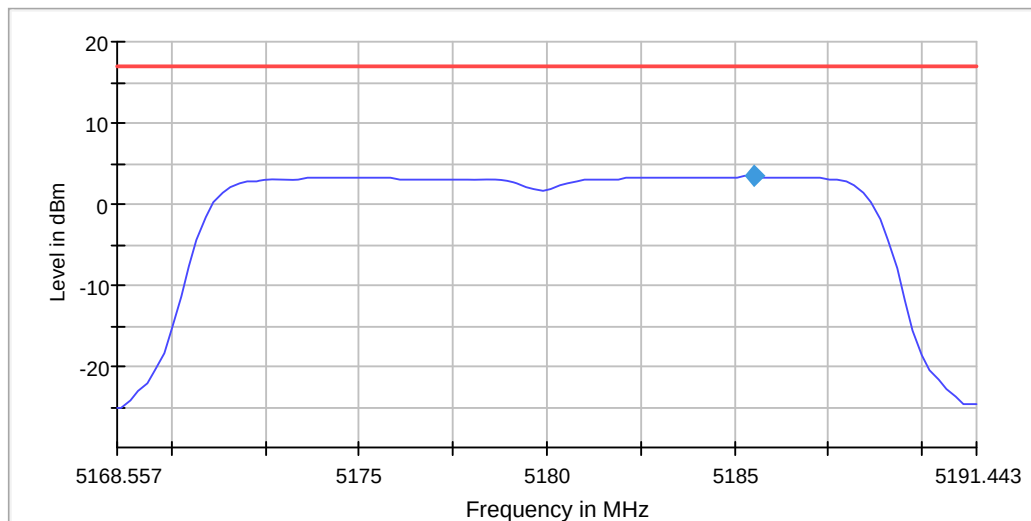
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5185.497031	3.399	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.205



Measurement

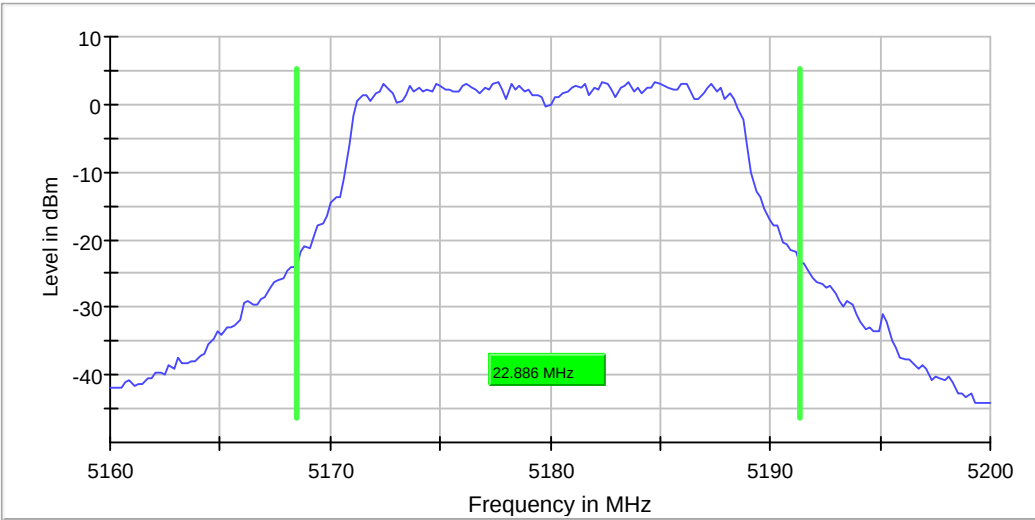
Setting	Instrument Value	Target Value
Start Frequency	5.16856 GHz	5.16856 GHz
Stop Frequency	5.19144 GHz	5.19144 GHz
Span	22.886 MHz	22.886 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5180.000000	22.885573	---	---	5168.457711	5191.343284	3.3	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	45 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

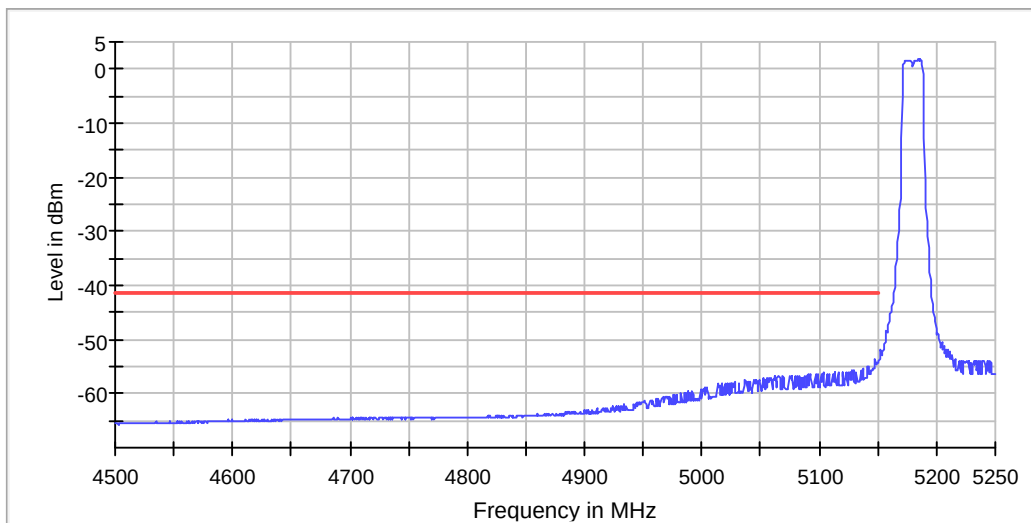
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5184.577114	1.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5147.252114	-53.5	12.3	-41.2	PASS
5147.751729	-53.6	12.4	-41.2	PASS
5149.250576	-54.4	13.2	-41.2	PASS
5148.750961	-54.5	13.2	-41.2	PASS
5148.251345	-54.6	13.4	-41.2	PASS
5141.756341	-54.8	13.6	-41.2	PASS
5141.256726	-54.9	13.7	-41.2	PASS
5146.752498	-55.3	14.1	-41.2	PASS
5137.259800	-55.4	14.2	-41.2	PASS
5146.252882	-55.5	14.3	-41.2	PASS
5129.265949	-55.5	14.3	-41.2	PASS
5135.261337	-55.6	14.3	-41.2	PASS
5145.753267	-55.6	14.4	-41.2	PASS
5144.754035	-55.7	14.5	-41.2	PASS
5135.760953	-55.7	14.5	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5180.000000	PASS

Final measurements

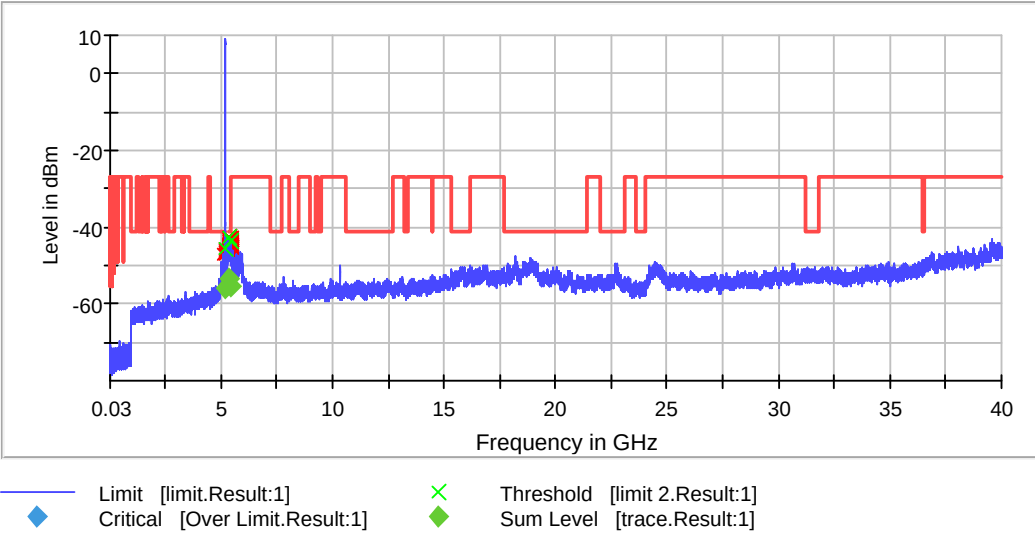
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5146.500843	-45.6	-55.7	-41.2	14.4	PASS
5361.404959	-42.6	-53.6	-41.2	12.4	PASS
5446.694215	-43.6	-55.6	-41.2	14.4	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5361.404959	-42.6	1.4	-41.2
5362.396694	-42.7	1.5	-41.2
5354.462810	-42.8	1.6	-41.2
5409.008264	-43.1	1.9	-41.2
5410.000000	-43.1	1.9	-41.2
5355.454545	-43.2	1.9	-41.2
5384.214876	-43.2	2.0	-41.2
5383.223140	-43.6	2.4	-41.2
5356.446281	-43.6	2.4	-41.2
5446.694215	-43.6	2.4	-41.2
5399.090909	-43.9	2.7	-41.2
5410.991736	-44.0	2.7	-41.2
5360.413223	-44.2	2.9	-41.2
5396.115702	-44.2	3.0	-41.2
5375.289256	-44.3	3.1	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 22.6866 MHz)

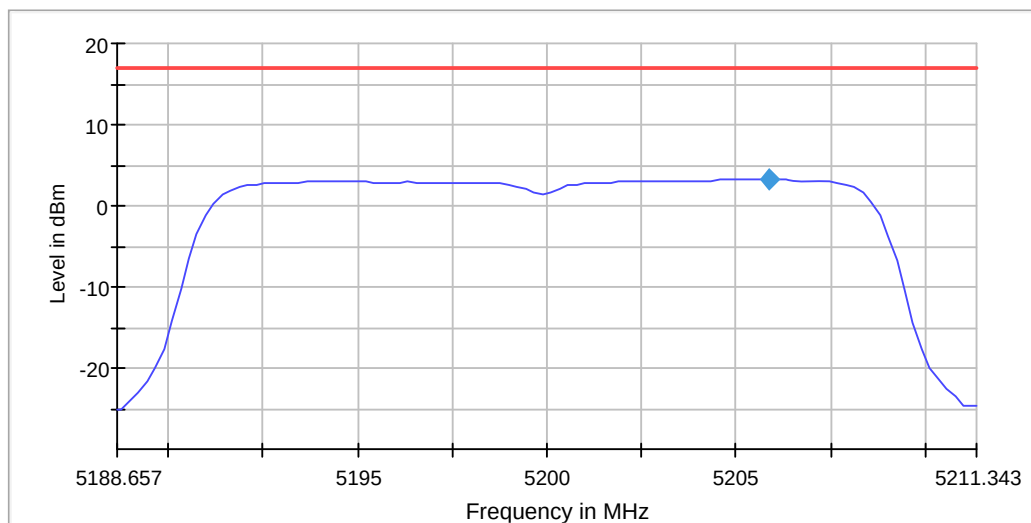
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5205.894068	3.239	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.109



Measurement

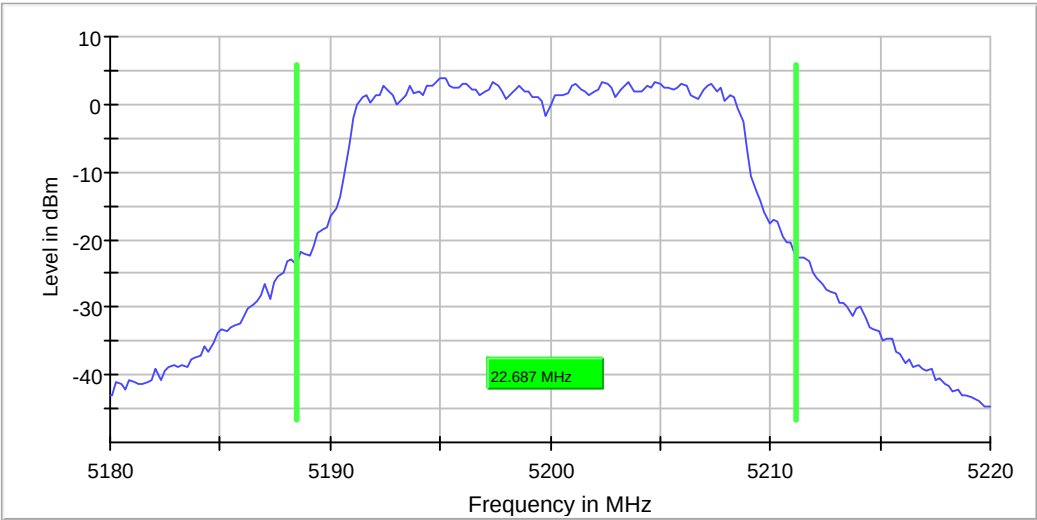
Setting	Instrument Value	Target Value
Start Frequency	5.18866 GHz	5.18866 GHz
Stop Frequency	5.21134 GHz	5.21134 GHz
Span	22.687 MHz	22.687 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5200.000000	22.686568	---	---	5188.457711	5211.144279	3.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	28 / max. 150	max. 150
Stable	5 / 5	5

Tx Spurious Emission (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5200.000000	PASS

Final measurements

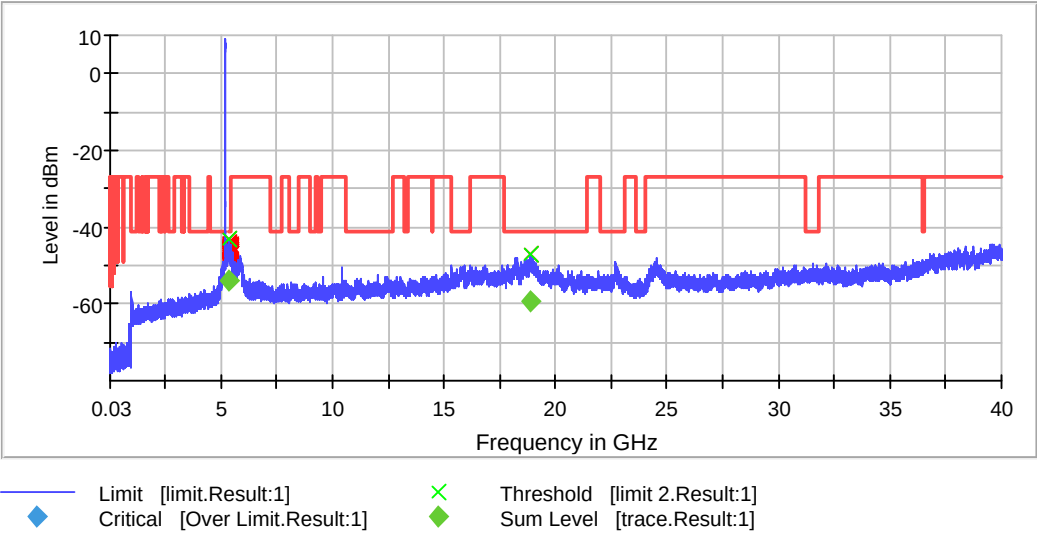
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5384.214876	-43.3	-53.8	-41.2	12.6	PASS
18853.876112	-47.2	-59.1	-41.2	17.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5384.214876	-43.3	2.1	-41.2
5378.264463	-43.9	2.7	-41.2
5362.396694	-44.1	2.9	-41.2
5374.297521	-44.4	3.2	-41.2
5373.305785	-44.4	3.2	-41.2
5408.016529	-44.8	3.6	-41.2
5377.272727	-44.8	3.6	-41.2
5357.438017	-44.9	3.7	-41.2
5353.471074	-44.9	3.7	-41.2
5390.165289	-45.0	3.8	-41.2
5409.008264	-45.0	3.8	-41.2
5420.909091	-45.1	3.8	-41.2
5393.140496	-45.1	3.9	-41.2
5356.446281	-45.2	3.9	-41.2
5419.917355	-45.2	4.0	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5240 MHz; 22.8856 MHz)

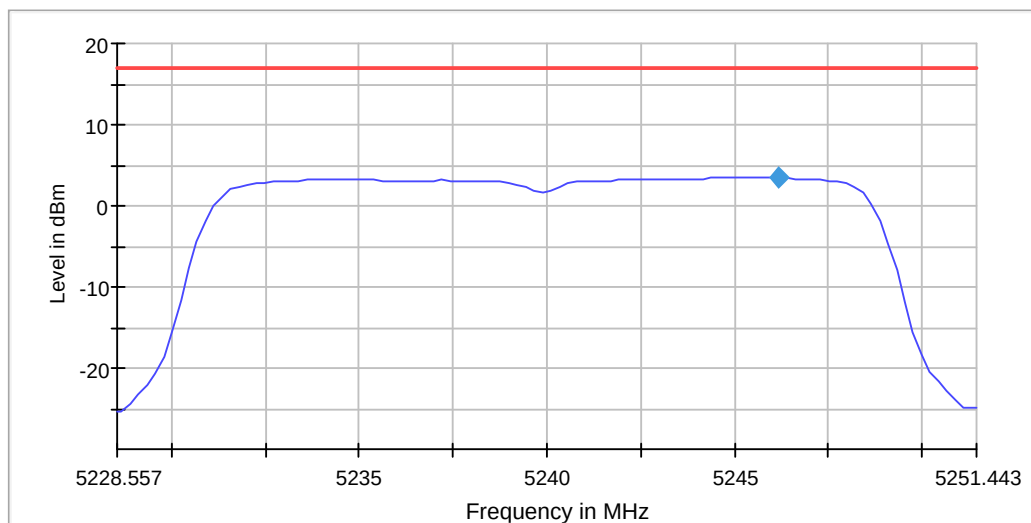
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5246.170137	3.452	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.200



Measurement

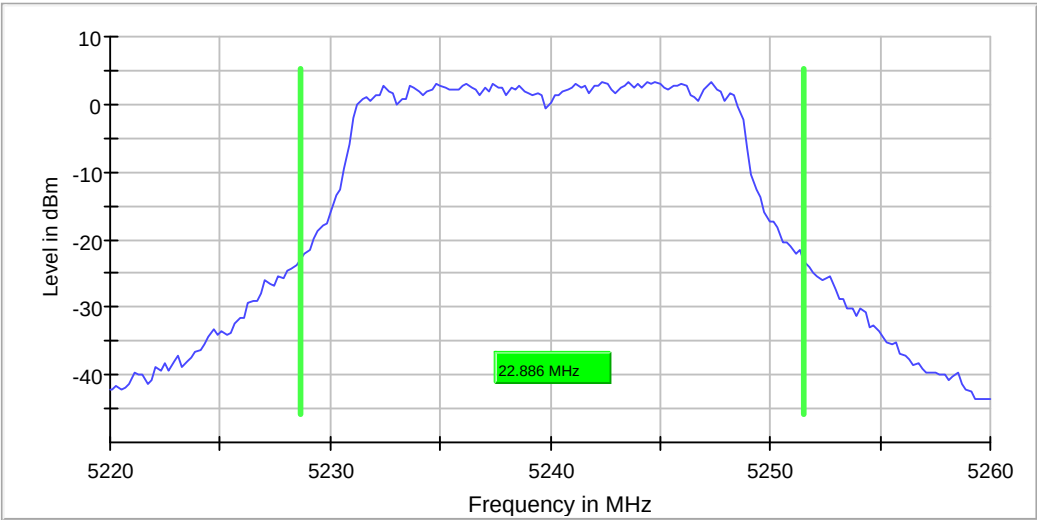
Setting	Instrument Value	Target Value
Start Frequency	5.22856 GHz	5.22856 GHz
Stop Frequency	5.25144 GHz	5.25144 GHz
Span	22.886 MHz	22.886 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5240.000000	22.885573	---	---	5228.656716	5251.542289	3.3	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	51 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

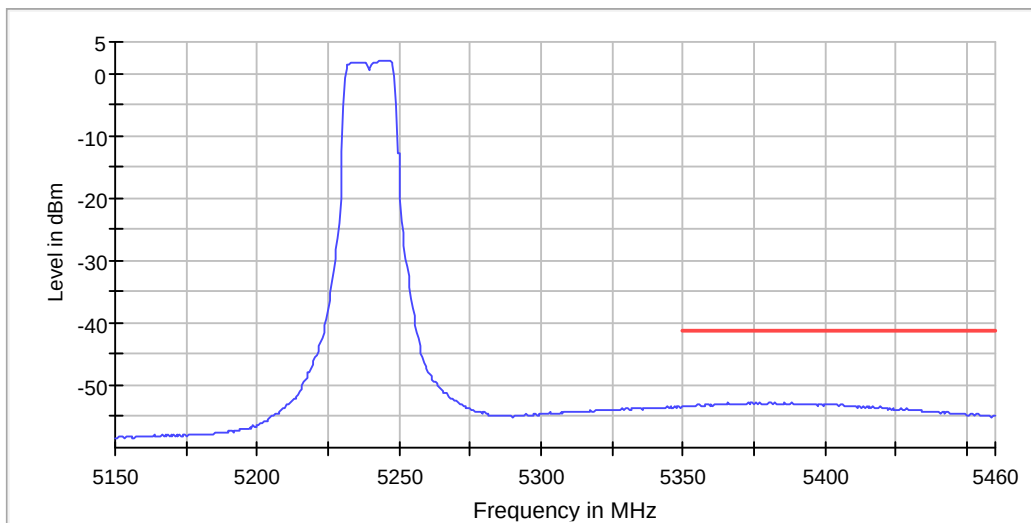
DUT Frequency (MHz)	Result
5240.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5245.273632	2.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5375.950119	-52.8	11.6	-41.2	PASS
5372.957245	-52.9	11.6	-41.2	PASS
5376.947743	-52.9	11.6	-41.2	PASS
5373.954869	-52.9	11.6	-41.2	PASS
5380.439430	-52.9	11.6	-41.2	PASS
5380.938242	-52.9	11.6	-41.2	PASS
5375.451306	-52.9	11.6	-41.2	PASS
5365.973872	-52.9	11.7	-41.2	PASS
5385.926366	-52.9	11.7	-41.2	PASS
5374.453682	-52.9	11.7	-41.2	PASS
5382.434679	-52.9	11.7	-41.2	PASS
5388.420428	-52.9	11.7	-41.2	PASS
5389.418052	-52.9	11.7	-41.2	PASS
5377.945368	-52.9	11.7	-41.2	PASS
5369.465558	-52.9	11.7	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5240.000000	PASS

Final measurements

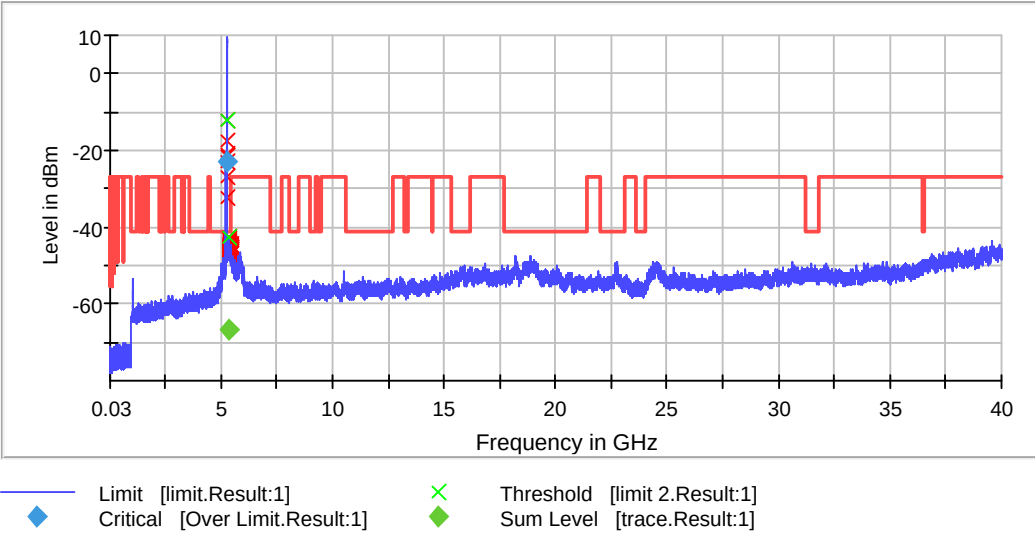
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5359.421488	-42.4	-66.5	-41.2	25.3	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5359.421488	-42.4	1.2	-41.2
5360.413223	-42.4	1.2	-41.2
5377.272727	-43.0	1.7	-41.2
5378.264463	-43.2	2.0	-41.2
5386.198347	-43.8	2.6	-41.2
5351.487603	-44.1	2.9	-41.2
5382.231405	-44.2	3.0	-41.2
5408.016529	-44.4	3.2	-41.2
5350.495868	-44.5	3.3	-41.2
5350.000000	-44.5	3.3	-41.2
5407.024793	-44.6	3.4	-41.2
5409.008264	-44.7	3.4	-41.2
5381.239669	-44.7	3.5	-41.2
5385.206612	-44.8	3.6	-41.2
5388.181818	-44.8	3.6	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant0 AC mode 40

Power Spectral Density (5190 MHz; 43.8806 MHz)

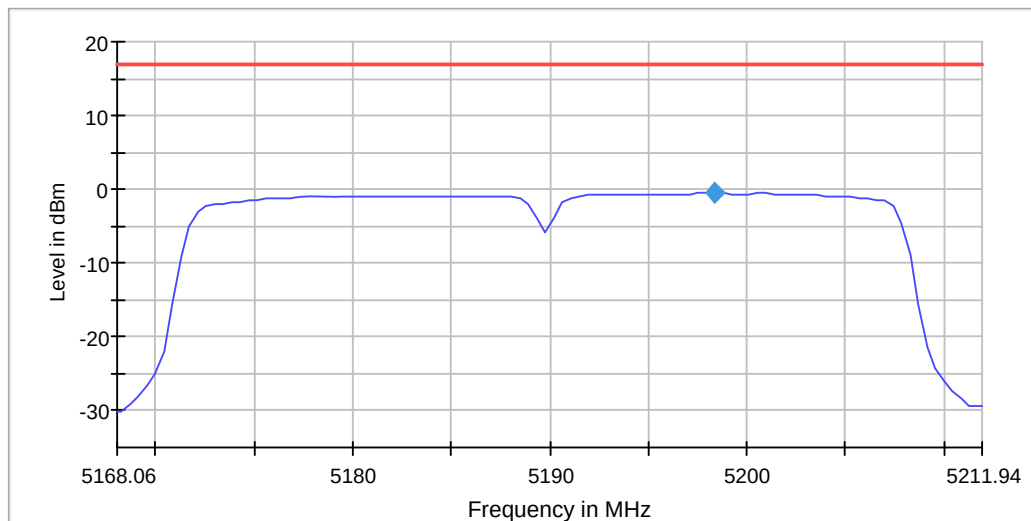
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5190.000000	5198.388938	-0.545	17.0	PASS

Ports

Port	Duty Cycle (%)
1	92.918



Measurement

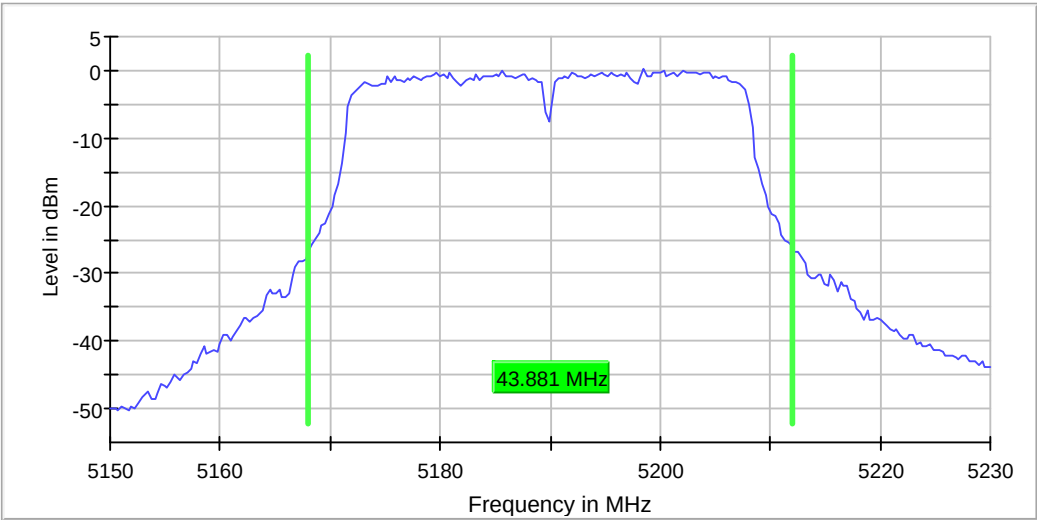
Setting	Instrument Value	Target Value
Start Frequency	5.16806 GHz	5.16806 GHz
Stop Frequency	5.21194 GHz	5.21194 GHz
Span	43.881 MHz	43.881 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 88
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5190.000000	43.880598	---	---	5168.059701	5211.940299	0.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.23000 GHz	5.23000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 µs	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	70 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

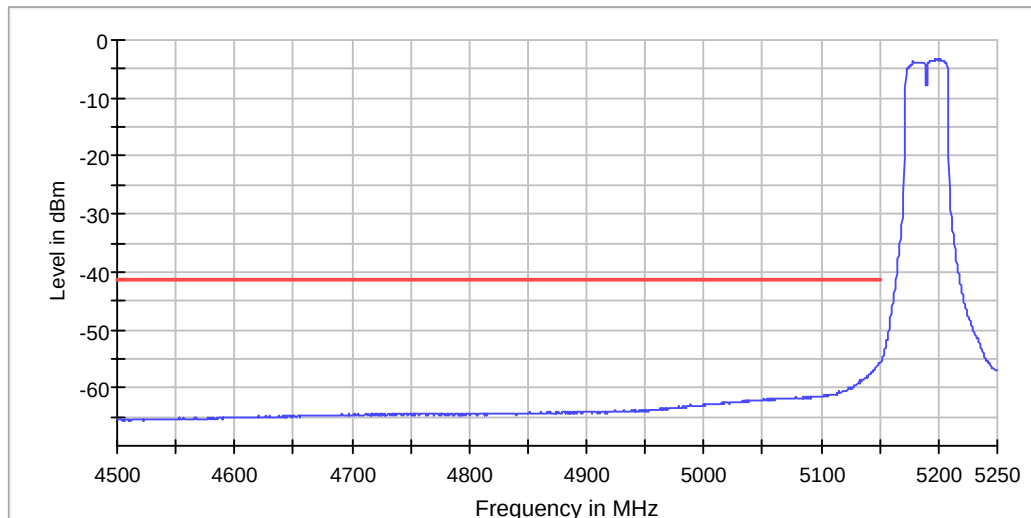
DUT Frequency (MHz)	Result
5190.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5198.009950	-3.3

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-55.8	14.5	-41.2	PASS
5148.750961	-56.0	14.8	-41.2	PASS
5148.251345	-56.0	14.8	-41.2	PASS
5147.751729	-56.3	15.1	-41.2	PASS
5146.752498	-56.4	15.2	-41.2	PASS
5147.252114	-56.5	15.2	-41.2	PASS
5146.252882	-56.7	15.4	-41.2	PASS
5145.753267	-56.8	15.5	-41.2	PASS
5144.754035	-56.9	15.7	-41.2	PASS
5145.253651	-56.9	15.7	-41.2	PASS
5144.254420	-57.1	15.9	-41.2	PASS
5143.255188	-57.2	16.0	-41.2	PASS
5143.754804	-57.3	16.0	-41.2	PASS
5142.255957	-57.4	16.2	-41.2	PASS
5142.755573	-57.4	16.2	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5190.000000	PASS

Final measurements

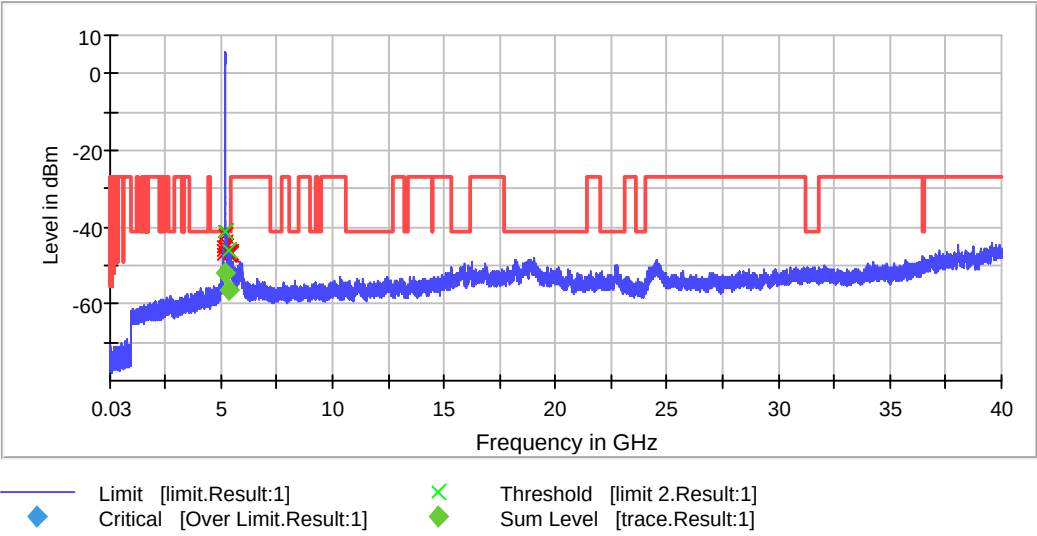
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5146.500843	-41.2	-52.0	-41.2	10.8	PASS
5362.396694	-46.3	-56.5	-41.2	15.3	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5146.500843	-41.2	0.0	-41.2
5145.501084	-41.3	0.0	-41.2
5148.500361	-41.3	0.1	-41.2
5147.500602	-42.0	0.8	-41.2
5144.501325	-43.9	2.7	-41.2
5142.501807	-44.9	3.6	-41.2
5143.501566	-45.1	3.9	-41.2
5141.502048	-45.3	4.0	-41.2
5138.502770	-46.1	4.8	-41.2
5362.396694	-46.3	5.1	-41.2
5407.024793	-46.3	5.1	-41.2
5361.404959	-46.7	5.5	-41.2
5140.502289	-46.9	5.7	-41.2
5387.190083	-47.0	5.7	-41.2
5386.198347	-47.0	5.8	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5230 MHz; 43.2836 MHz)

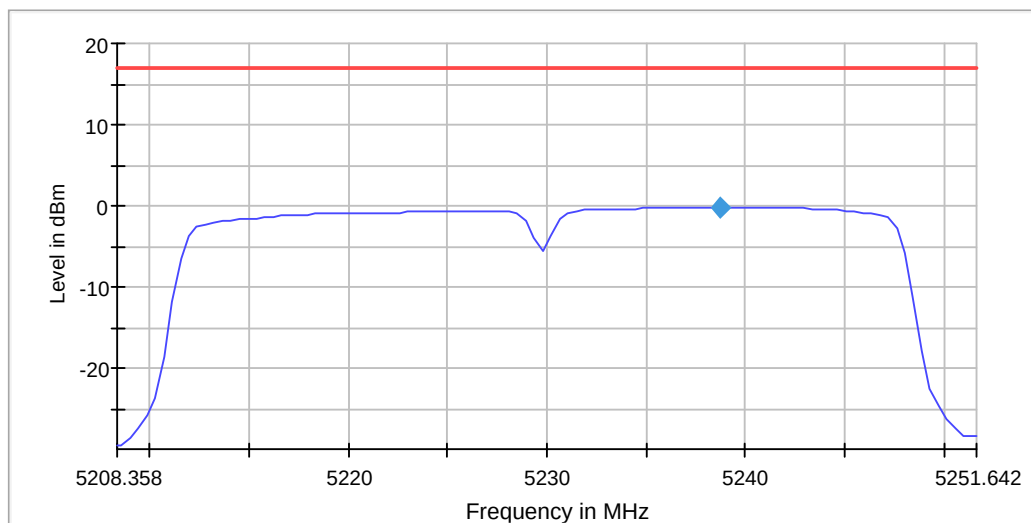
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5230.000000	5238.699155	-0.180	17.0	PASS

Ports

Port	Duty Cycle (%)
1	92.964



Measurement

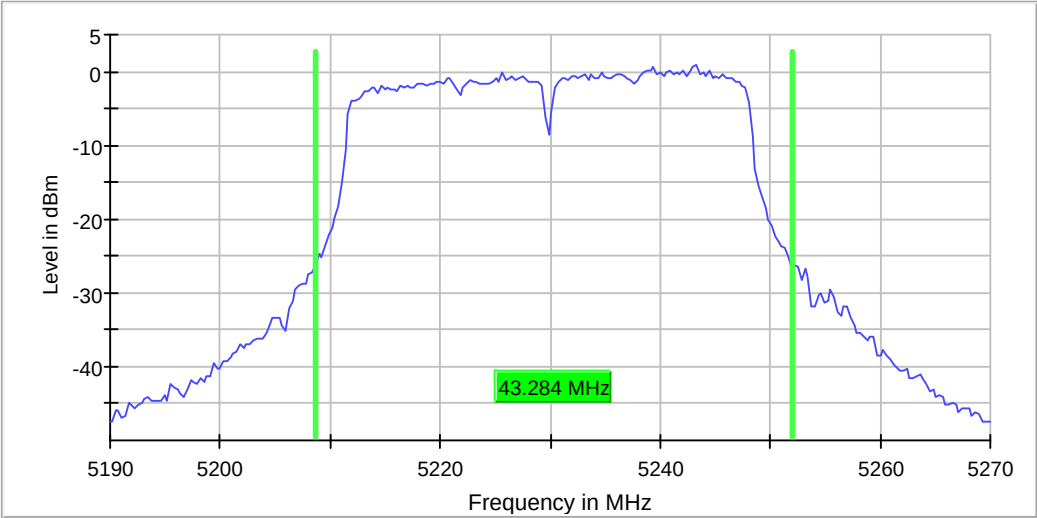
Setting	Instrument Value	Target Value
Start Frequency	5.20836 GHz	5.20836 GHz
Stop Frequency	5.25164 GHz	5.25164 GHz
Span	43.284 MHz	43.284 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 87
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5230.000000	43.283583	---	---	5208.656716	5251.940299	0.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	51 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

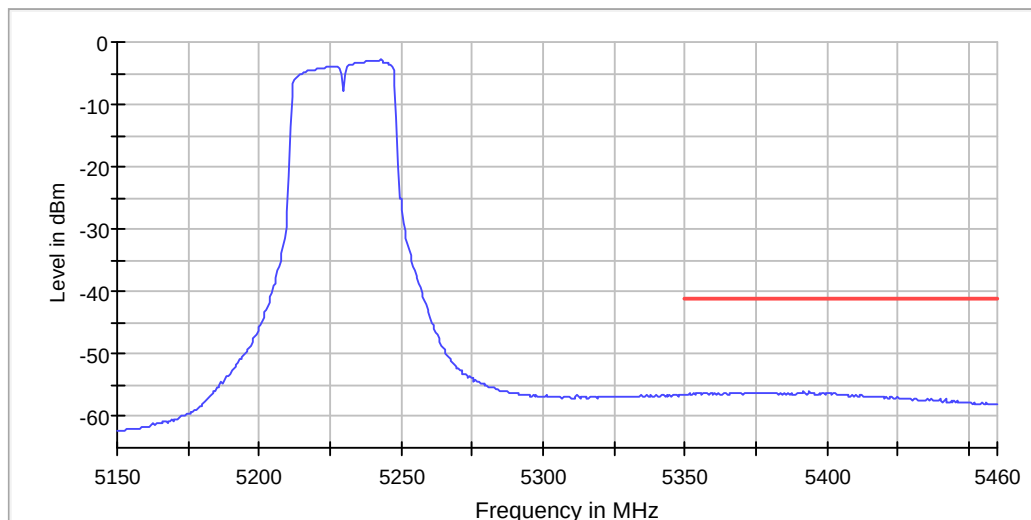
DUT Frequency (MHz)	Result
5230.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5242.786070	-2.9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5391.912114	-55.9	14.7	-41.2	PASS
5393.907363	-56.0	14.7	-41.2	PASS
5389.916865	-56.1	14.9	-41.2	PASS
5391.413302	-56.1	14.9	-41.2	PASS
5379.441805	-56.1	14.9	-41.2	PASS
5390.415677	-56.1	14.9	-41.2	PASS
5367.969121	-56.2	14.9	-41.2	PASS
5364.477435	-56.2	15.0	-41.2	PASS
5401.389549	-56.2	15.0	-41.2	PASS
5376.947743	-56.2	15.0	-41.2	PASS
5392.410926	-56.2	15.0	-41.2	PASS
5395.403800	-56.2	15.0	-41.2	PASS
5383.931116	-56.2	15.0	-41.2	PASS
5390.914489	-56.2	15.0	-41.2	PASS
5366.472684	-56.2	15.0	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5230.000000	PASS

Final measurements

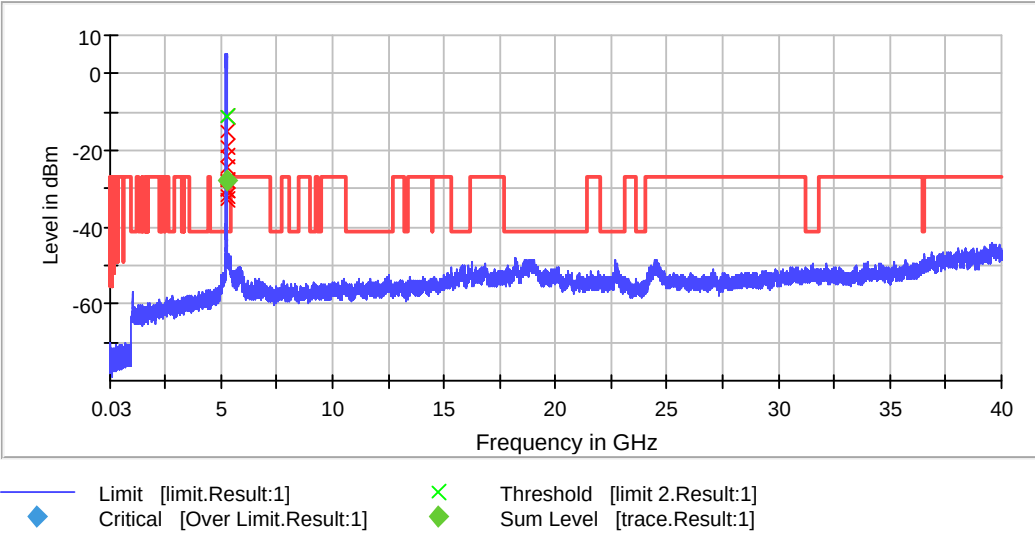
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5250.490196	-10.9	-28.1	---	---	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5392.148760	-47.2	6.0	-41.2
5365.371901	-47.6	6.3	-41.2
5391.157025	-47.7	6.4	-41.2
5396.115702	-47.8	6.5	-41.2
5368.347107	-47.8	6.6	-41.2
5360.413223	-47.9	6.6	-41.2
5366.363636	-47.9	6.6	-41.2
5405.041322	-47.9	6.7	-41.2
18228.909005	-47.9	6.7	-41.2
5417.933884	-48.0	6.8	-41.2
18220.909426	-48.0	6.8	-41.2
5404.049587	-48.1	6.8	-41.2
5382.231405	-48.1	6.9	-41.2
5383.223140	-48.1	6.9	-41.2
5361.404959	-48.1	6.9	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant0 AC mode 80

Power Spectral Density (5210 MHz; 0.000 dBm; 87.4534 MHz)

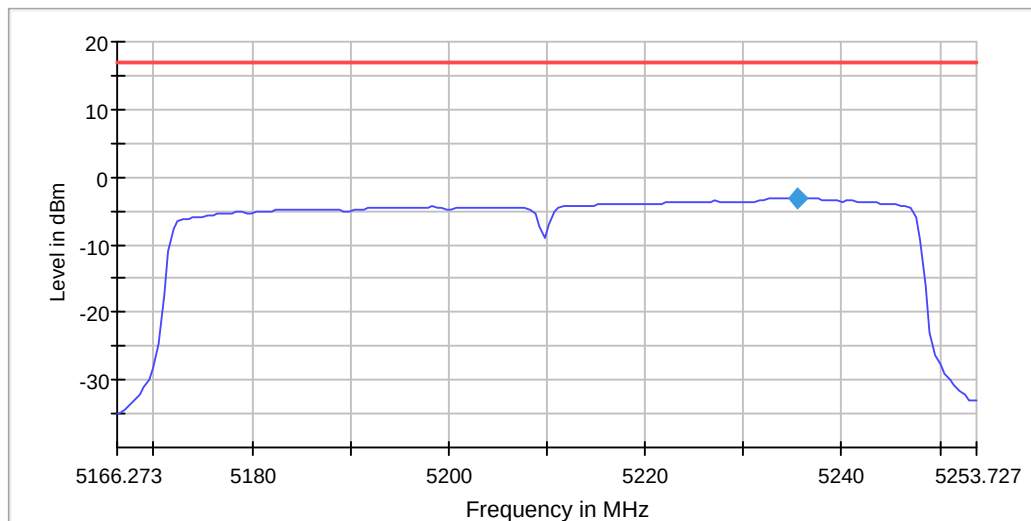
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5210.000000	5235.590057	-3.216	17.0	PASS

Ports

Port	Duty Cycle (%)
1	86.154



Measurement

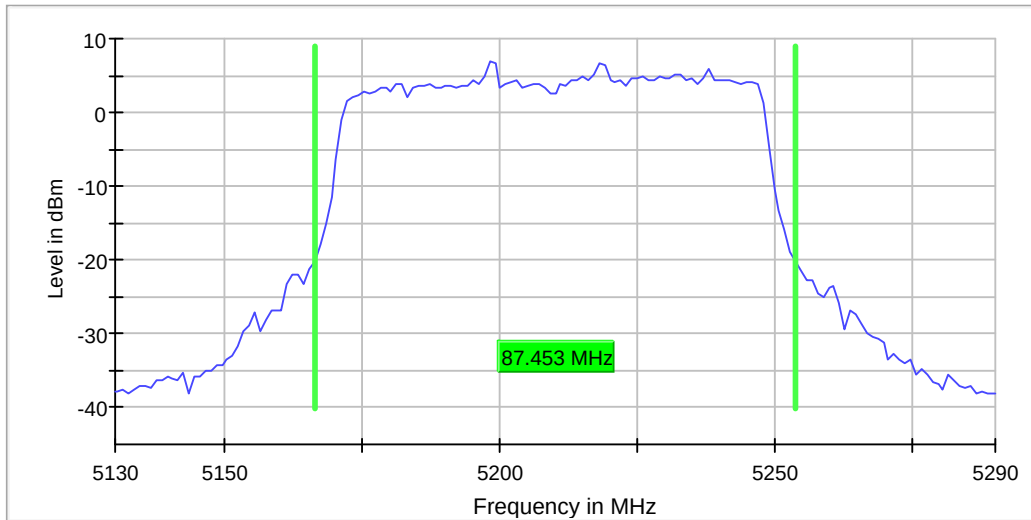
Setting	Instrument Value	Target Value
Start Frequency	5.16627 GHz	5.16627 GHz
Stop Frequency	5.25373 GHz	5.25373 GHz
Span	87.453 MHz	87.453 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	175	~ 175
SweepTime	3.500 s	3.500 s
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5210.000000	87.453416	---	---	5166.273292	5253.726708	6.9	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	22.754 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	73 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

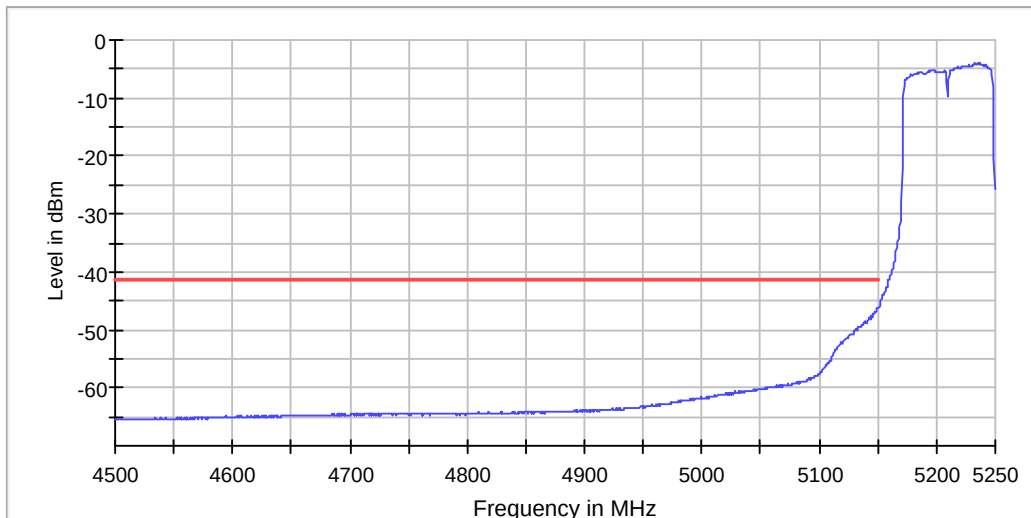
DUT Frequency (MHz)	Result
5210.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5235.323383	-4.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-46.4	5.1	-41.2	PASS
5148.750961	-46.6	5.4	-41.2	PASS
5148.251345	-46.8	5.5	-41.2	PASS
5147.252114	-46.9	5.7	-41.2	PASS
5147.751729	-47.0	5.8	-41.2	PASS
5146.752498	-47.1	5.8	-41.2	PASS
5146.252882	-47.2	6.0	-41.2	PASS
5145.753267	-47.4	6.1	-41.2	PASS
5144.754035	-47.7	6.5	-41.2	PASS
5145.253651	-47.7	6.5	-41.2	PASS
5144.254420	-47.8	6.6	-41.2	PASS
5142.755573	-47.9	6.6	-41.2	PASS
5143.255188	-47.9	6.7	-41.2	PASS
5143.754804	-48.0	6.8	-41.2	PASS
5142.255957	-48.3	7.1	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Band Edge high (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

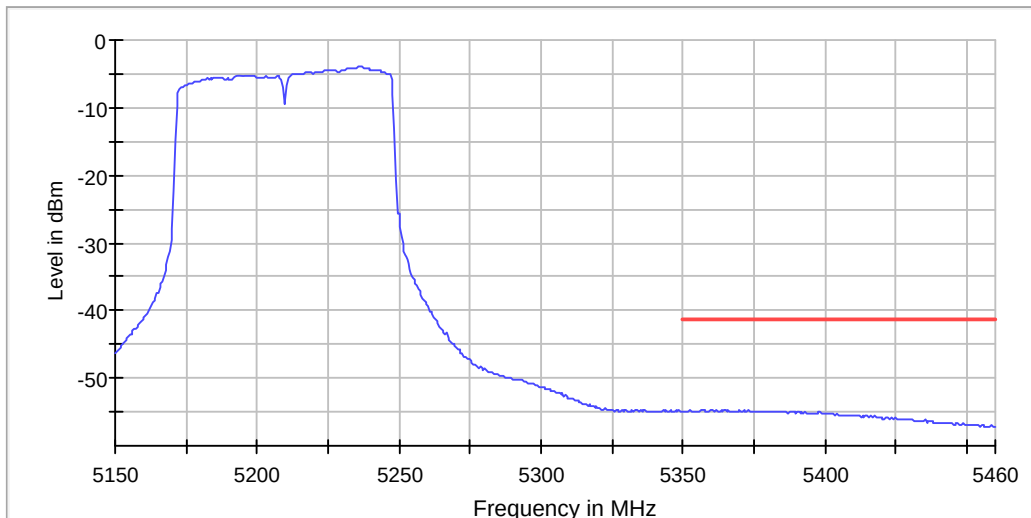
DUT Frequency (MHz)	Result
5210.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5235.820896	-4.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5363.479810	-54.7	13.5	-41.2	PASS
5356.995249	-54.7	13.5	-41.2	PASS
5357.494062	-54.8	13.5	-41.2	PASS
5359.988124	-54.8	13.6	-41.2	PASS
5364.976247	-54.8	13.6	-41.2	PASS
5359.489311	-54.8	13.6	-41.2	PASS
5352.505938	-54.8	13.6	-41.2	PASS
5360.486936	-54.8	13.6	-41.2	PASS
5356.496437	-54.8	13.6	-41.2	PASS
5364.477435	-54.8	13.6	-41.2	PASS
5369.964371	-54.8	13.6	-41.2	PASS
5361.484561	-54.8	13.6	-41.2	PASS
5361.983373	-54.8	13.6	-41.2	PASS
5372.957245	-54.8	13.6	-41.2	PASS
5365.973872	-54.8	13.6	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5210.000000	PASS

Final measurements

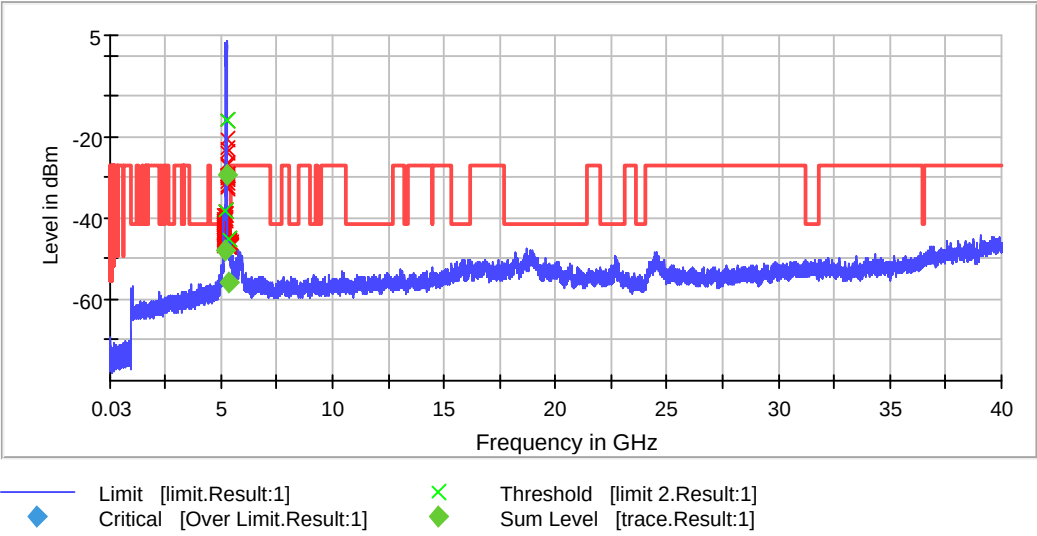
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5147.500602	-38.1	-47.9	-41.2	6.7	PASS
5250.490196	-15.8	-29.4	---	---	PASS
5372.314050	-45.2	-55.9	-41.2	14.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5147.500602	-38.1	-3.1	-41.2
5143.501566	-38.1	-3.1	-41.2
5148.500361	-39.0	-2.3	-41.2
5144.501325	-39.2	-2.1	-41.2
5141.502048	-39.2	-2.0	-41.2
5142.501807	-39.3	-1.9	-41.2
5138.502770	-39.8	-1.4	-41.2
5145.501084	-39.9	-1.4	-41.2
5140.502289	-40.4	-0.8	-41.2
5146.500843	-40.4	-0.8	-41.2
5132.504216	-40.6	-0.6	-41.2
5136.503252	-40.7	-0.5	-41.2
5126.505661	-41.1	-0.2	-41.2
5134.503734	-41.2	0.0	-41.2
5124.506143	-41.2	0.0	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant0 NHT20

Power Spectral Density (5180 MHz; 22.6866 MHz)

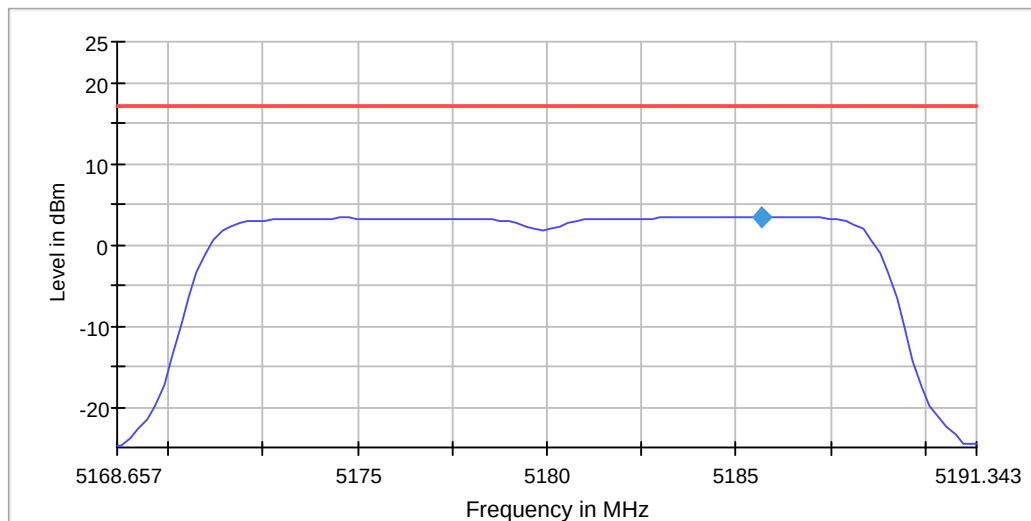
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5185.671650	3.479	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.165



Measurement

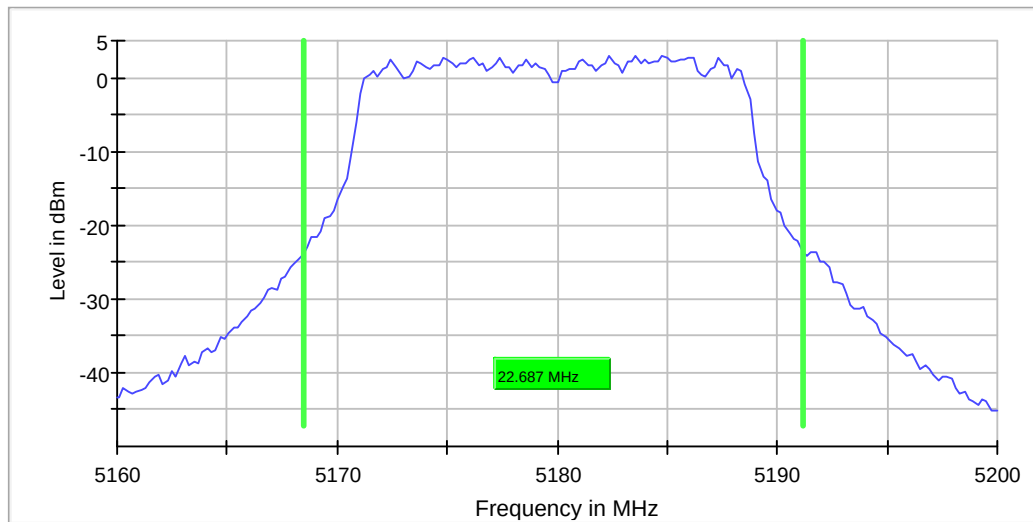
Setting	Instrument Value	Target Value
Start Frequency	5.16866 GHz	5.16866 GHz
Stop Frequency	5.19134 GHz	5.19134 GHz
Span	22.687 MHz	22.687 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5180.000000	22.686568	---	---	5168.457711	5191.144279	3.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	50 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

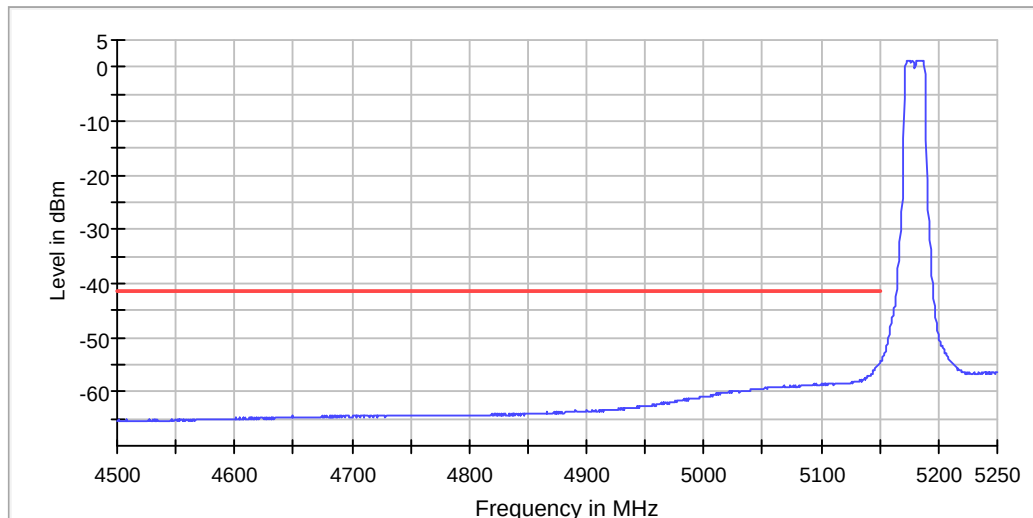
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5186.069652	1.3

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-54.9	13.6	-41.2	PASS
5148.750961	-54.9	13.7	-41.2	PASS
5148.251345	-55.0	13.8	-41.2	PASS
5147.751729	-55.3	14.1	-41.2	PASS
5147.252114	-55.4	14.2	-41.2	PASS
5146.752498	-55.5	14.3	-41.2	PASS
5146.252882	-55.7	14.5	-41.2	PASS
5145.753267	-55.9	14.6	-41.2	PASS
5145.253651	-55.9	14.7	-41.2	PASS
5144.754035	-56.2	14.9	-41.2	PASS
5143.754804	-56.4	15.2	-41.2	PASS
5144.254420	-56.4	15.2	-41.2	PASS
5143.255188	-56.6	15.4	-41.2	PASS
5142.755573	-56.6	15.4	-41.2	PASS
5142.255957	-56.7	15.5	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5180.000000	PASS

Final measurements

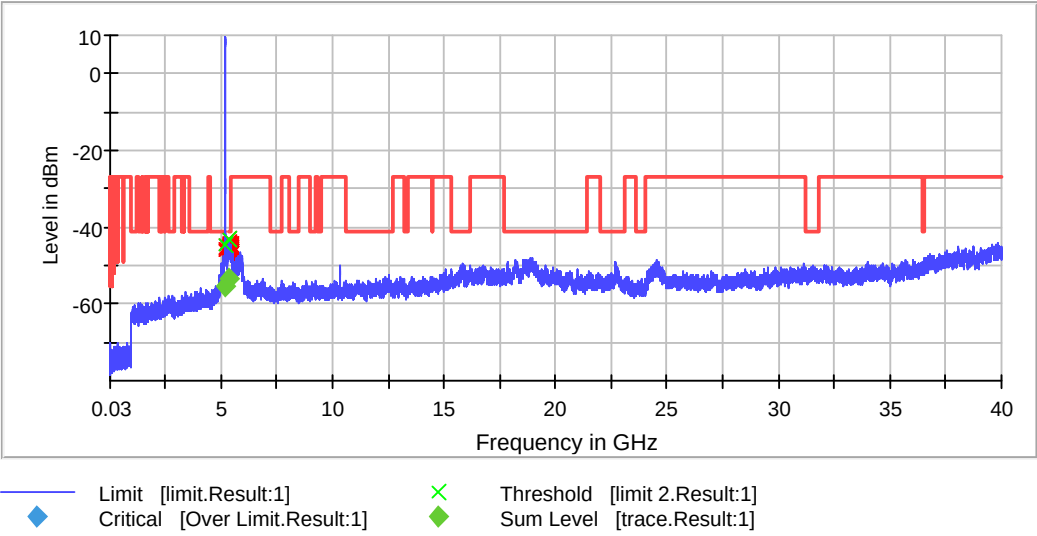
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5147.500602	-44.4	-55.5	-41.2	14.3	PASS
5366.363636	-43.3	-53.4	-41.2	12.1	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5366.363636	-43.3	2.1	-41.2
5365.371901	-44.1	2.8	-41.2
5390.165289	-44.1	2.9	-41.2
5147.500602	-44.4	3.1	-41.2
5379.256198	-44.5	3.3	-41.2
5425.867769	-44.5	3.3	-41.2
5426.859504	-44.5	3.3	-41.2
5375.289256	-44.6	3.3	-41.2
5410.991736	-44.7	3.4	-41.2
5368.347107	-44.7	3.4	-41.2
5367.355372	-44.7	3.5	-41.2
5428.842975	-44.8	3.6	-41.2
5364.380165	-44.9	3.6	-41.2
5384.214876	-44.9	3.7	-41.2
5394.132231	-44.9	3.7	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 22.6866 MHz)

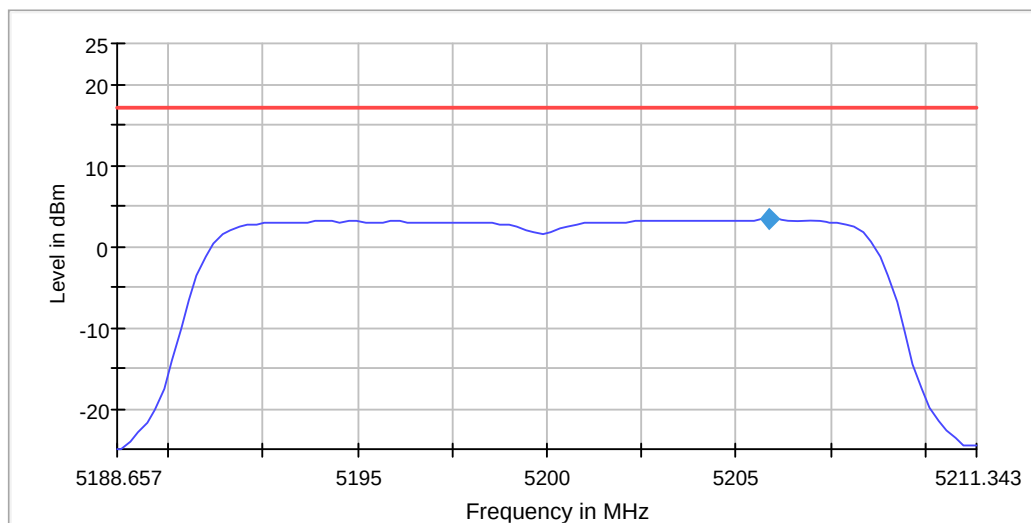
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5205.894068	3.308	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.005



Measurement

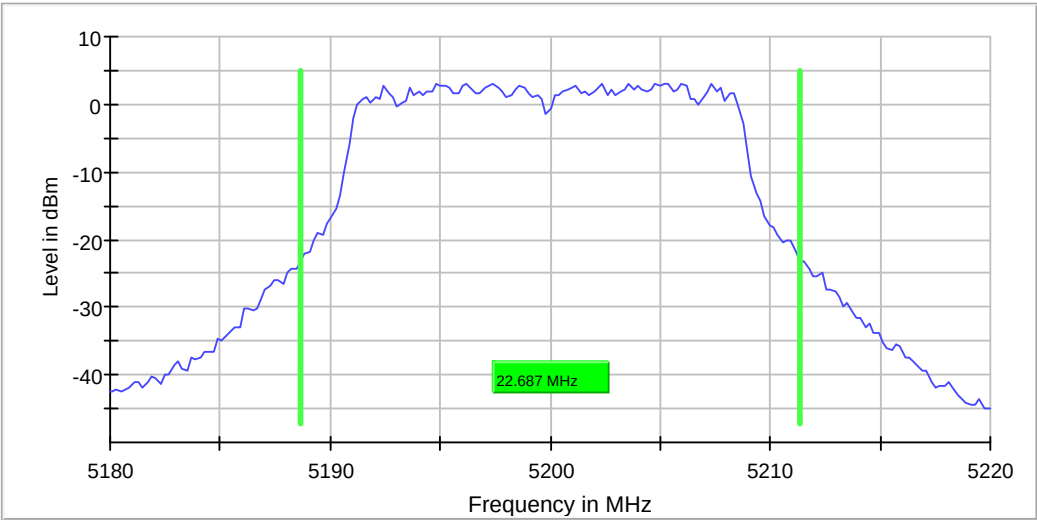
Setting	Instrument Value	Target Value
Start Frequency	5.18866 GHz	5.18866 GHz
Stop Frequency	5.21134 GHz	5.21134 GHz
Span	22.687 MHz	22.687 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5200.000000	22.686568	---	---	5188.656716	5211.343284	3.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	27 / max. 150	max. 150
Stable	5 / 5	5

Tx Spurious Emission (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5200.000000	PASS

Final measurements

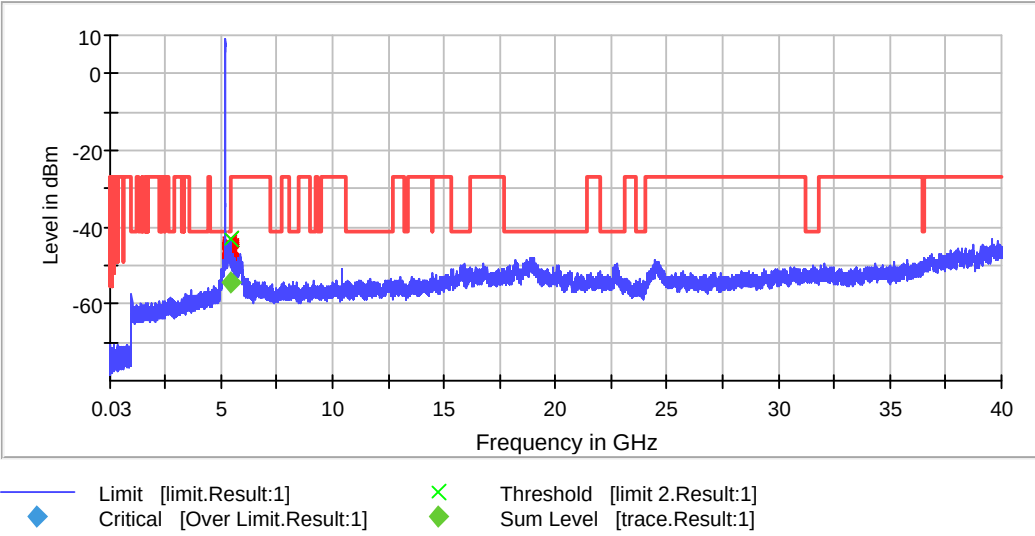
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5416.942149	-43.0	-54.3	-41.2	13.1	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5416.942149	-43.0	1.8	-41.2
5375.289256	-44.0	2.7	-41.2
5393.140496	-44.8	3.6	-41.2
5407.024793	-45.2	4.0	-41.2
5379.256198	-45.3	4.0	-41.2
5427.851240	-45.3	4.1	-41.2
5392.148760	-45.3	4.1	-41.2
5406.033058	-45.3	4.1	-41.2
5365.371901	-45.3	4.1	-41.2
5366.363636	-45.5	4.3	-41.2
5391.157025	-45.5	4.3	-41.2
5355.454545	-45.5	4.3	-41.2
5428.842975	-45.6	4.3	-41.2
5370.330579	-45.6	4.3	-41.2
5356.446281	-45.6	4.3	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamplifier	off	off

Power Spectral Density (5240 MHz; 23.0846 MHz)

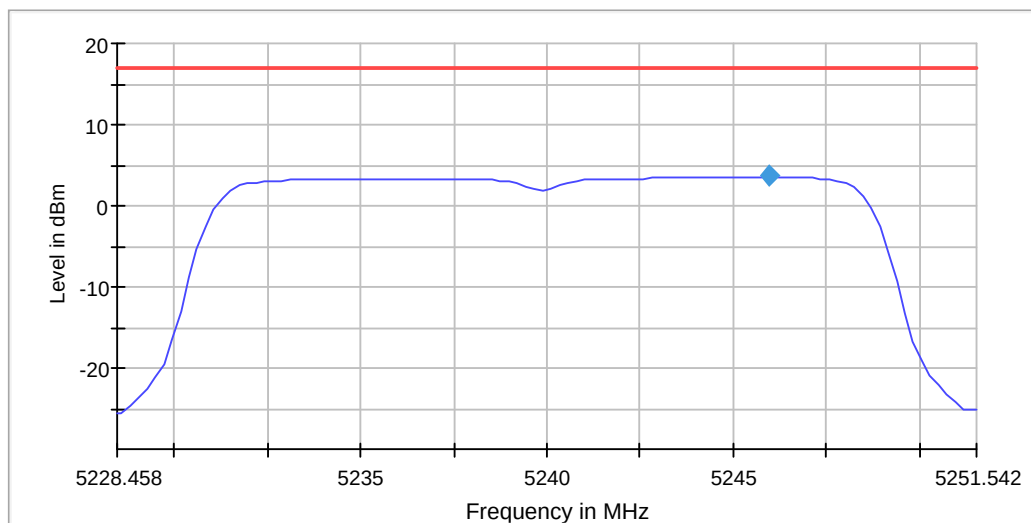
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5245.997470	3.609	17.0	PASS

Ports

Port	Duty Cycle (%)
1	94.699



Measurement

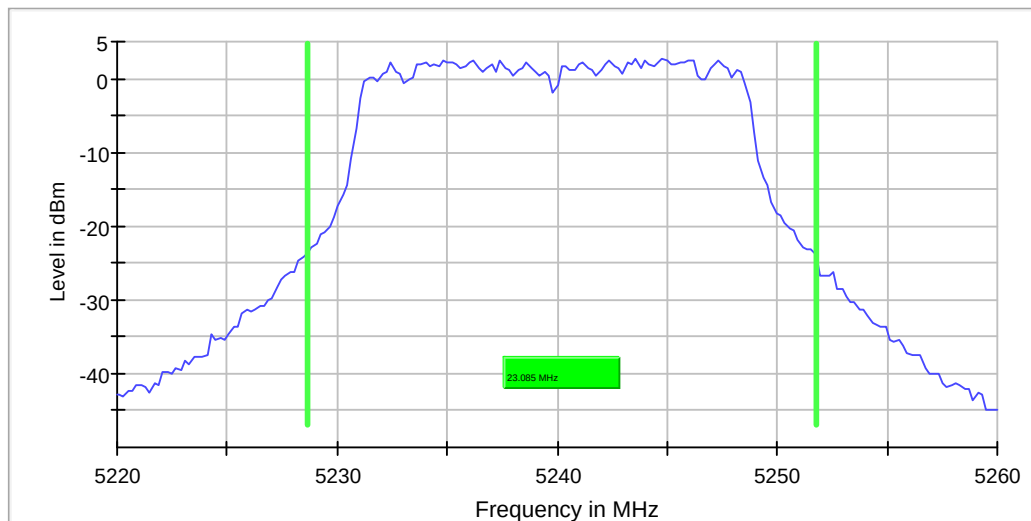
Setting	Instrument Value	Target Value
Start Frequency	5.22846 GHz	5.22846 GHz
Stop Frequency	5.25154 GHz	5.25154 GHz
Span	23.085 MHz	23.085 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5240.000000	23.084578	---	---	5228.656716	5251.741294	2.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	44 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

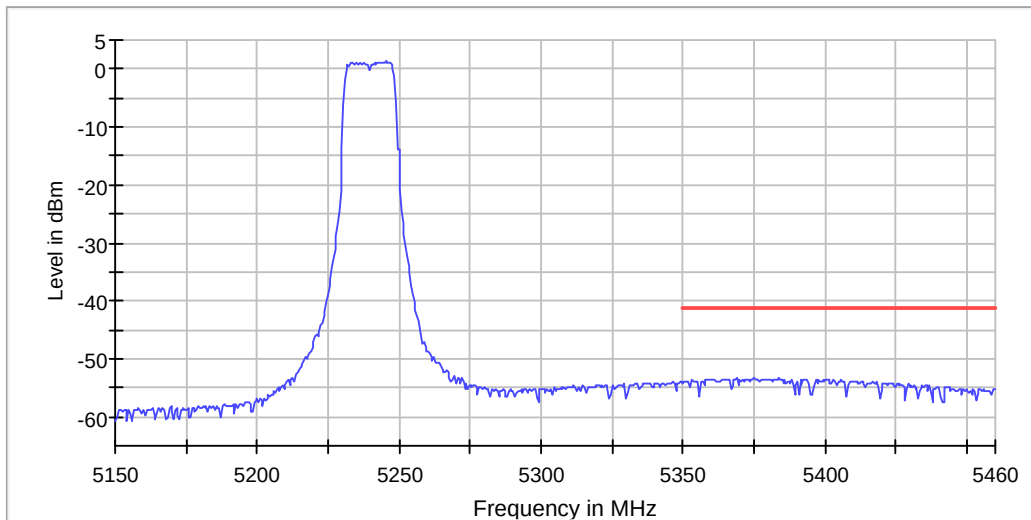
DUT Frequency (MHz)	Result
5240.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5245.273632	1.4

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5383.931116	-53.4	12.2	-41.2	PASS
5374.952494	-53.4	12.2	-41.2	PASS
5368.966746	-53.4	12.2	-41.2	PASS
5380.439430	-53.4	12.2	-41.2	PASS
5373.954869	-53.5	12.2	-41.2	PASS
5392.410926	-53.5	12.3	-41.2	PASS
5381.935867	-53.5	12.3	-41.2	PASS
5400.391924	-53.5	12.3	-41.2	PASS
5375.451306	-53.5	12.3	-41.2	PASS
5384.429929	-53.5	12.3	-41.2	PASS
5365.475059	-53.6	12.3	-41.2	PASS
5379.441805	-53.6	12.3	-41.2	PASS
5388.420428	-53.6	12.3	-41.2	PASS
5378.444181	-53.6	12.3	-41.2	PASS
5401.389549	-53.6	12.3	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5240.000000	PASS

Final measurements

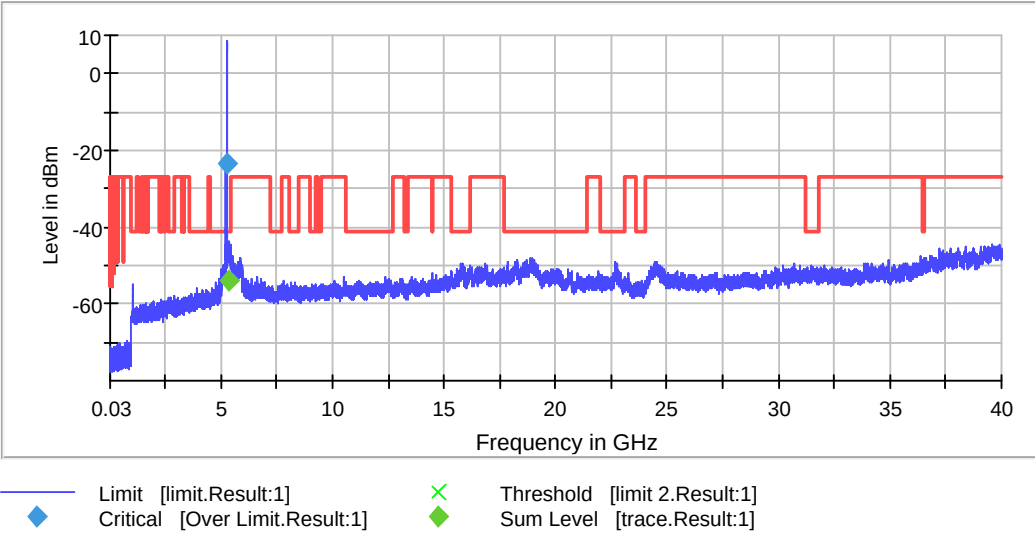
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5395.123967	-43.8	-54.2	-41.2	12.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5395.123967	-43.8	2.6	-41.2
5394.132231	-44.3	3.1	-41.2
5401.074380	-44.7	3.4	-41.2
5388.181818	-44.7	3.5	-41.2
5384.214876	-45.1	3.8	-41.2
5350.000000	-45.3	4.1	-41.2
5404.049587	-45.3	4.1	-41.2
5381.239669	-45.4	4.2	-41.2
5383.223140	-45.5	4.3	-41.2
5393.140496	-45.6	4.4	-41.2
5380.247934	-45.6	4.4	-41.2
5405.041322	-45.6	4.4	-41.2
5365.371901	-45.7	4.5	-41.2
5367.355372	-45.9	4.6	-41.2
5362.396694	-45.9	4.7	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant0 NHT40

Power Spectral Density (5190 MHz; 44.1791 MHz)

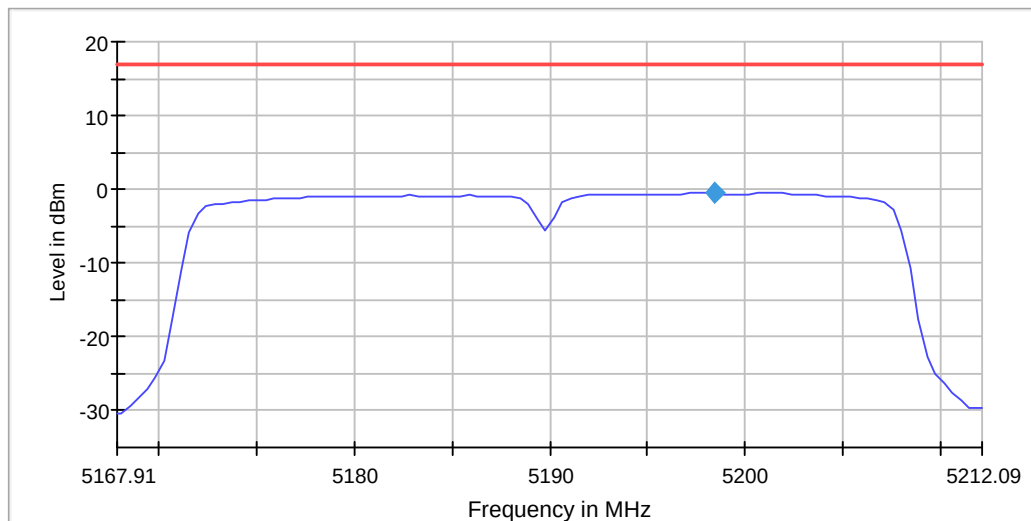
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5190.000000	5198.446004	-0.549	17.0	PASS

Ports

Port	Duty Cycle (%)
1	93.206



Measurement

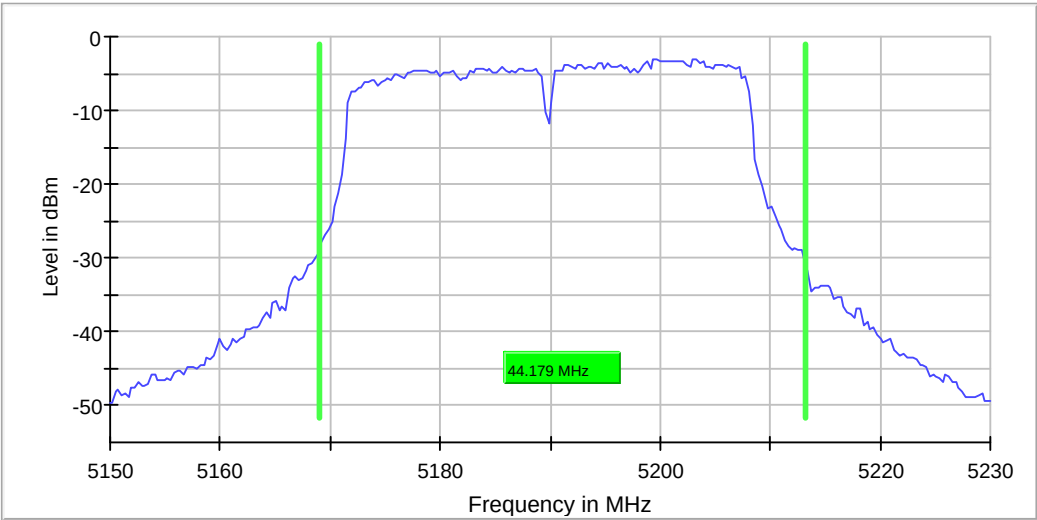
Setting	Instrument Value	Target Value
Start Frequency	5.16791 GHz	5.16791 GHz
Stop Frequency	5.21209 GHz	5.21209 GHz
Span	44.179 MHz	44.179 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 88
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5190.000000	44.179104	---	---	5168.955224	5213.134328	-3.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.23000 GHz	5.23000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	63 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

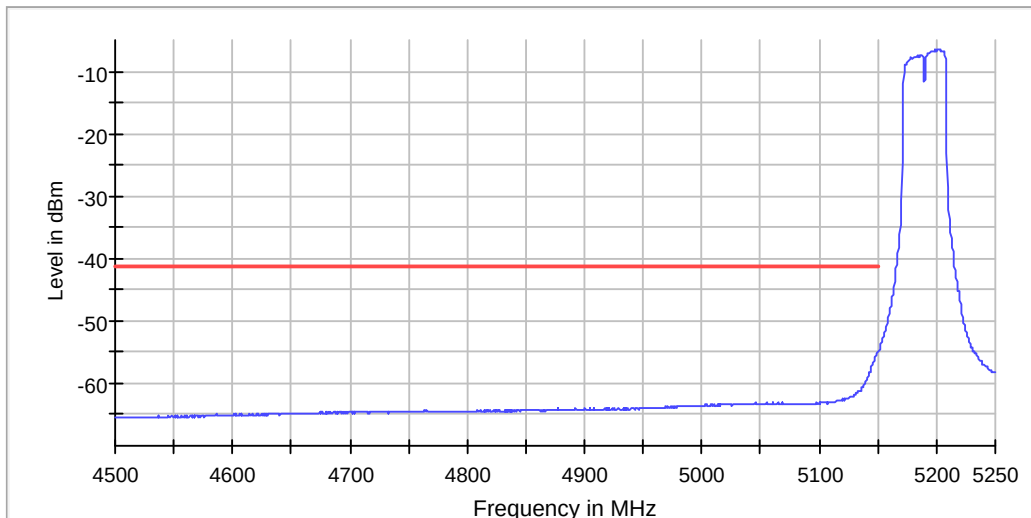
DUT Frequency (MHz)	Result
5190.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5202.985075	-6.6

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-55.3	14.1	-41.2	PASS
5148.750961	-55.6	14.3	-41.2	PASS
5148.251345	-55.6	14.4	-41.2	PASS
5147.751729	-55.8	14.6	-41.2	PASS
5147.252114	-56.1	14.9	-41.2	PASS
5146.752498	-56.4	15.2	-41.2	PASS
5146.252882	-56.7	15.4	-41.2	PASS
5145.753267	-56.9	15.6	-41.2	PASS
5145.253651	-57.1	15.9	-41.2	PASS
5144.754035	-57.4	16.2	-41.2	PASS
5144.254420	-57.5	16.3	-41.2	PASS
5143.754804	-57.8	16.6	-41.2	PASS
5143.255188	-58.2	16.9	-41.2	PASS
5142.755573	-58.3	17.1	-41.2	PASS
5142.255957	-58.6	17.3	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5190.000000	PASS

Final measurements

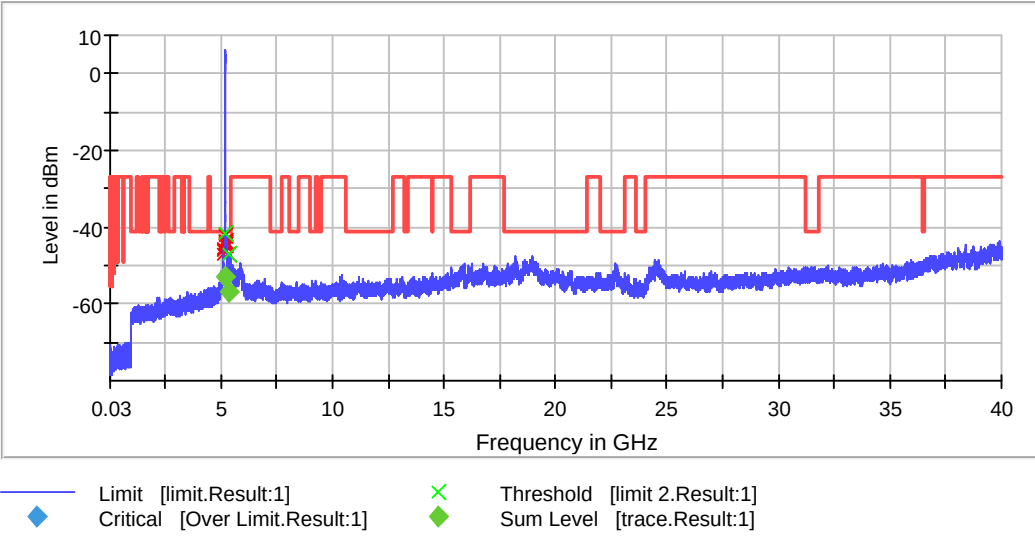
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5145.501084	-41.4	-52.8	-41.2	11.6	PASS
5364.380165	-47.2	-56.8	-41.2	15.6	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5145.501084	-41.4	0.2	-41.2
5148.500361	-42.2	1.0	-41.2
5143.501566	-43.5	2.2	-41.2
5147.500602	-43.5	2.3	-41.2
5146.500843	-44.1	2.9	-41.2
5142.501807	-44.5	3.3	-41.2
5144.501325	-44.7	3.5	-41.2
5141.502048	-45.7	4.5	-41.2
5140.502289	-46.0	4.8	-41.2
5139.502530	-47.1	5.9	-41.2
5364.380165	-47.2	6.0	-41.2
5430.826446	-47.3	6.1	-41.2
5137.503011	-47.3	6.1	-41.2
5398.099174	-47.4	6.2	-41.2
5399.090909	-47.5	6.2	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5230 MHz; 42.3881 MHz)

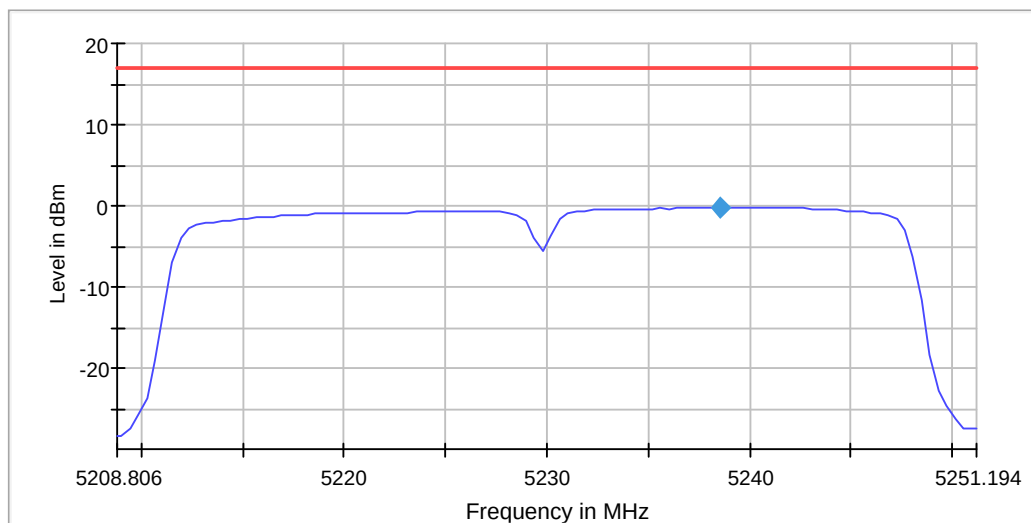
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5230.000000	5238.519177	-0.209	17.0	PASS

Ports

Port	Duty Cycle (%)
1	93.132



Measurement

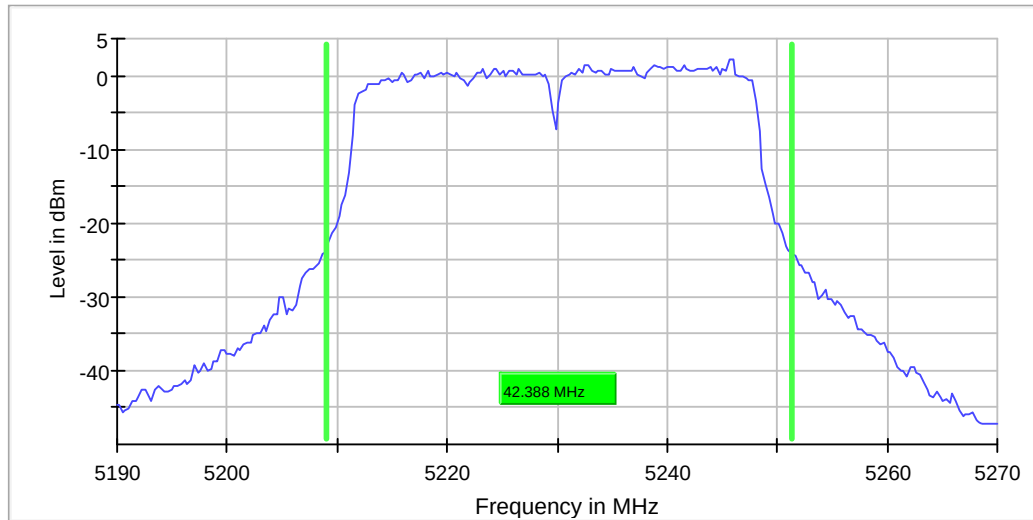
Setting	Instrument Value	Target Value
Start Frequency	5.20881 GHz	5.20881 GHz
Stop Frequency	5.25119 GHz	5.25119 GHz
Span	42.388 MHz	42.388 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 85
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5230.000000	42.388060	---	---	5208.955224	5251.343284	2.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	50 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

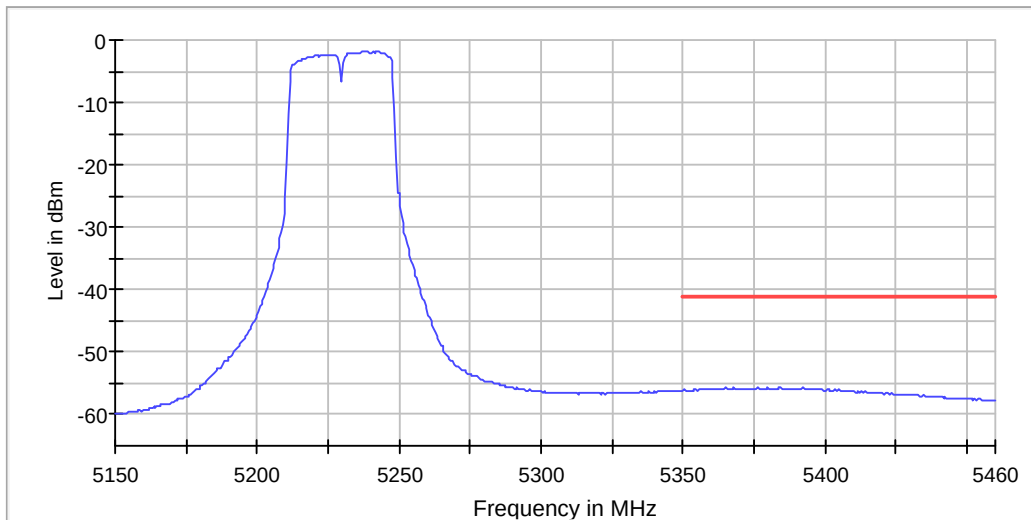
DUT Frequency (MHz)	Result
5230.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5242.786070	-1.7

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5376.448931	-55.6	14.4	-41.2	PASS
5367.969121	-55.7	14.5	-41.2	PASS
5379.940618	-55.7	14.5	-41.2	PASS
5383.931116	-55.7	14.5	-41.2	PASS
5384.429929	-55.7	14.5	-41.2	PASS
5364.976247	-55.8	14.5	-41.2	PASS
5392.410926	-55.8	14.6	-41.2	PASS
5365.973872	-55.8	14.6	-41.2	PASS
5377.446556	-55.8	14.6	-41.2	PASS
5379.441805	-55.8	14.6	-41.2	PASS
5390.415677	-55.8	14.6	-41.2	PASS
5373.954869	-55.8	14.6	-41.2	PASS
5373.456057	-55.8	14.6	-41.2	PASS
5372.957245	-55.8	14.6	-41.2	PASS
5377.945368	-55.8	14.6	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5230.000000	PASS

Final measurements

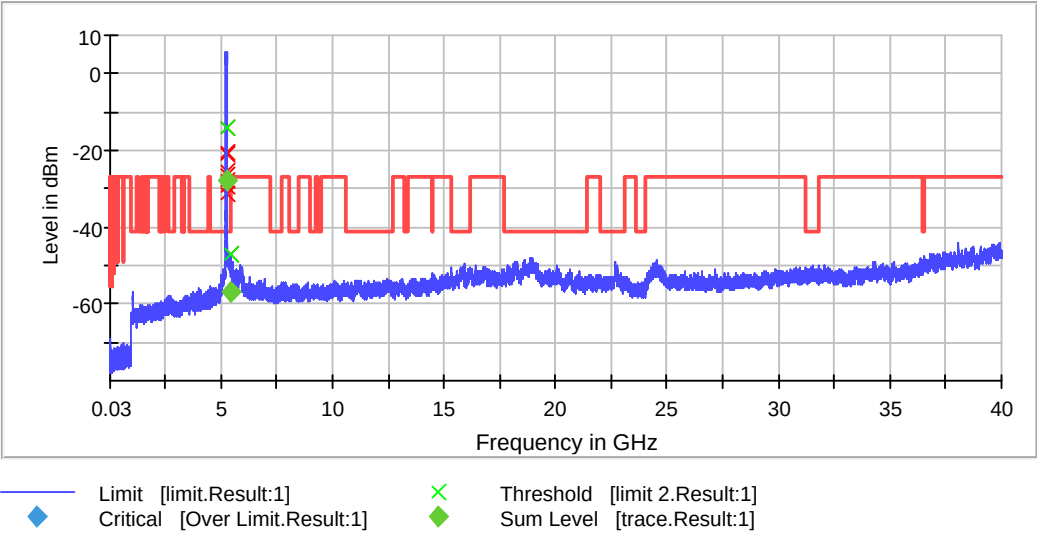
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5404.049587	-46.9	-56.9	-41.2	15.6	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5404.049587	-46.9	5.6	-41.2
5393.140496	-47.4	6.2	-41.2
5400.082645	-47.5	6.3	-41.2
5352.479339	-47.5	6.3	-41.2
5392.148760	-47.8	6.5	-41.2
18884.874480	-47.8	6.6	-41.2
5351.487603	-47.9	6.7	-41.2
18885.874428	-48.0	6.7	-41.2
18929.872112	-48.0	6.8	-41.2
5399.090909	-48.0	6.8	-41.2
5419.917355	-48.1	6.9	-41.2
5401.074380	-48.1	6.9	-41.2
5414.958678	-48.1	6.9	-41.2
18875.874954	-48.2	7.0	-41.2
5412.975207	-48.4	7.1	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant1 A mode

Power Spectral Density (5180 MHz; 22.8856 MHz)

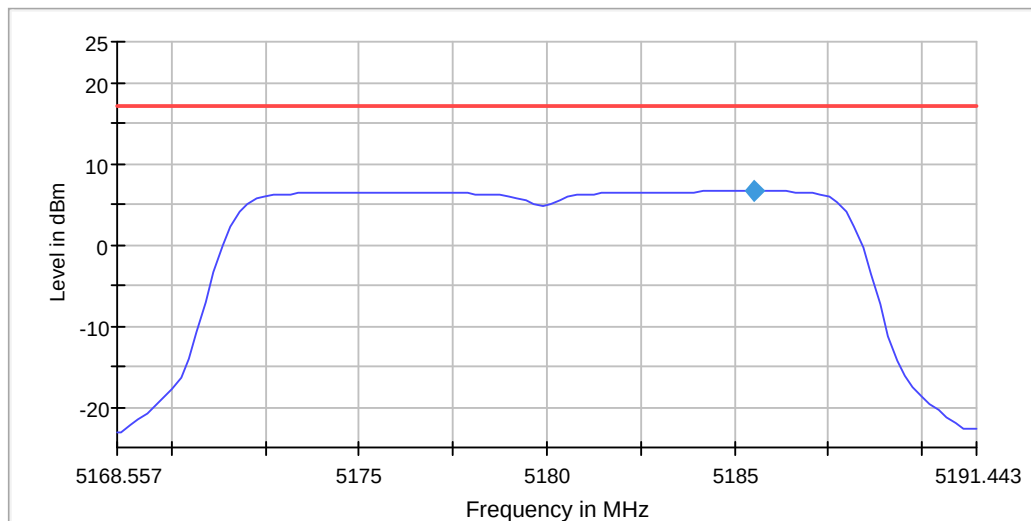
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5185.497031	6.574	17.0	PASS

Ports

Port	Duty Cycle (%)
1	96.139



Measurement

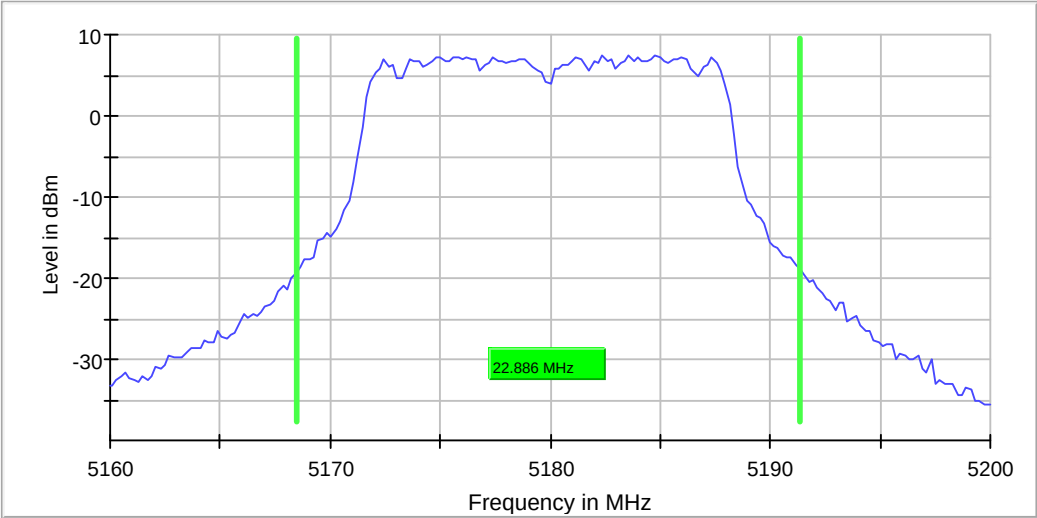
Setting	Instrument Value	Target Value
Start Frequency	5.16856 GHz	5.16856 GHz
Stop Frequency	5.19144 GHz	5.19144 GHz
Span	22.886 MHz	22.886 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-10.000 dBm	-20.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5180.000000	22.885573	---	---	5168.457711	5191.343284	7.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	58 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

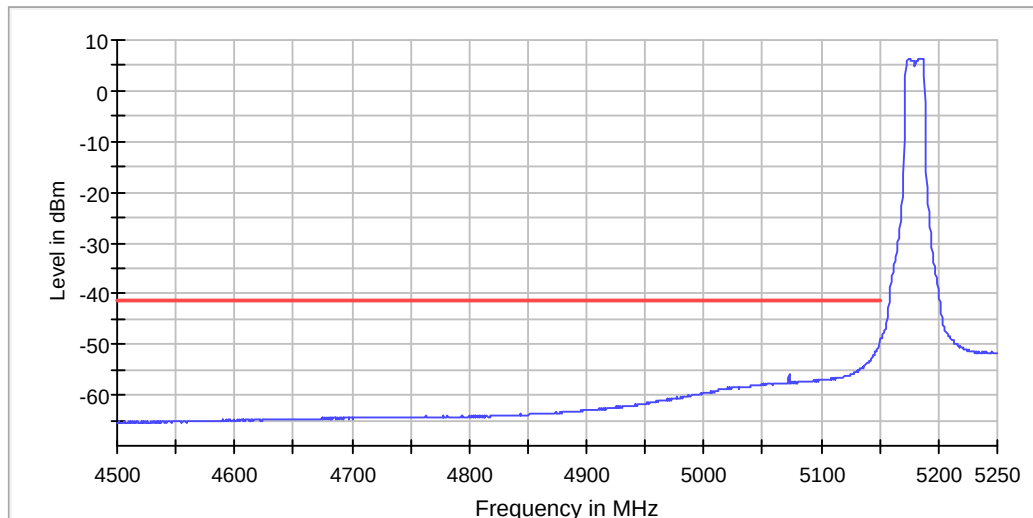
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5186.069652	6.4

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-50.5	9.3	-41.2	PASS
5148.750961	-50.6	9.4	-41.2	PASS
5148.251345	-50.7	9.5	-41.2	PASS
5147.751729	-51.0	9.8	-41.2	PASS
5146.752498	-51.3	10.1	-41.2	PASS
5147.252114	-51.4	10.2	-41.2	PASS
5146.252882	-51.6	10.3	-41.2	PASS
5145.753267	-51.8	10.6	-41.2	PASS
5145.253651	-52.0	10.7	-41.2	PASS
5144.254420	-52.2	11.0	-41.2	PASS
5144.754035	-52.2	11.0	-41.2	PASS
5143.754804	-52.5	11.2	-41.2	PASS
5143.255188	-52.6	11.3	-41.2	PASS
5142.755573	-52.7	11.5	-41.2	PASS
5142.255957	-52.8	11.6	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5180.000000	PASS

Final measurements

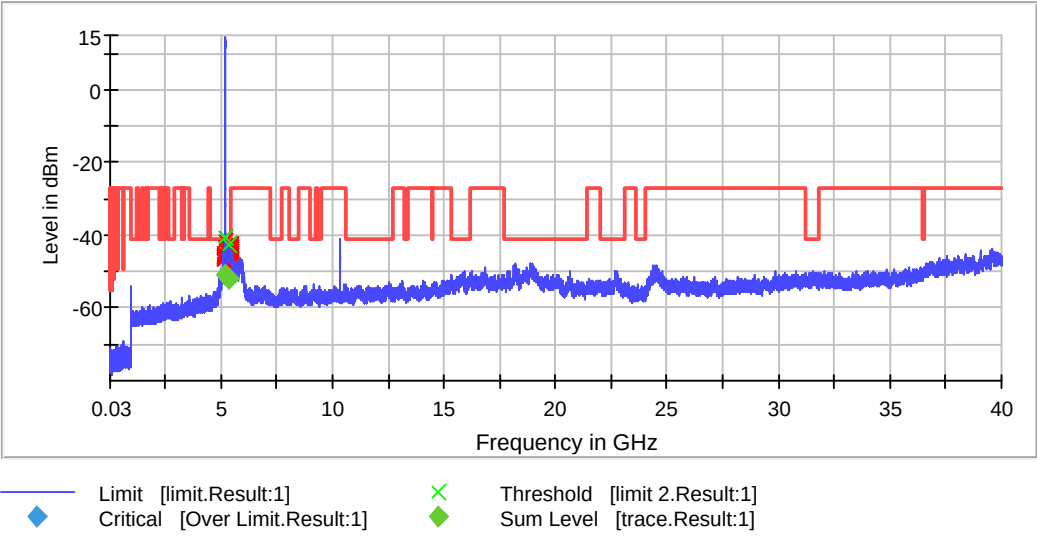
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-40.3	-50.9	-41.2	9.6	PASS
5361.404959	-42.6	-52.0	-41.2	10.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5148.500361	-40.3	-0.9	-41.2
5147.500602	-41.5	0.3	-41.2
5361.404959	-42.6	1.3	-41.2
5362.396694	-42.6	1.4	-41.2
5384.214876	-42.7	1.5	-41.2
5385.206612	-42.7	1.5	-41.2
5416.942149	-42.8	1.6	-41.2
5397.107438	-42.8	1.6	-41.2
5143.501566	-42.9	1.7	-41.2
5144.501325	-42.9	1.7	-41.2
5368.347107	-43.0	1.8	-41.2
5369.338843	-43.0	1.8	-41.2
5419.917355	-43.1	1.8	-41.2
5395.123967	-43.2	1.9	-41.2
5146.500843	-43.3	2.0	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 22.6866 MHz)

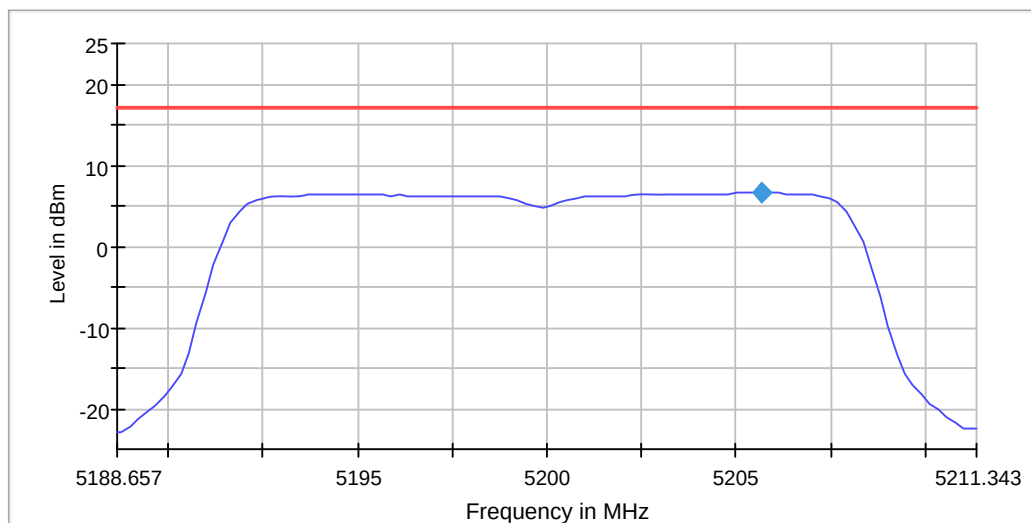
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5205.671650	6.540	17.0	PASS

Ports

Port	Duty Cycle (%)
1	96.131



Measurement

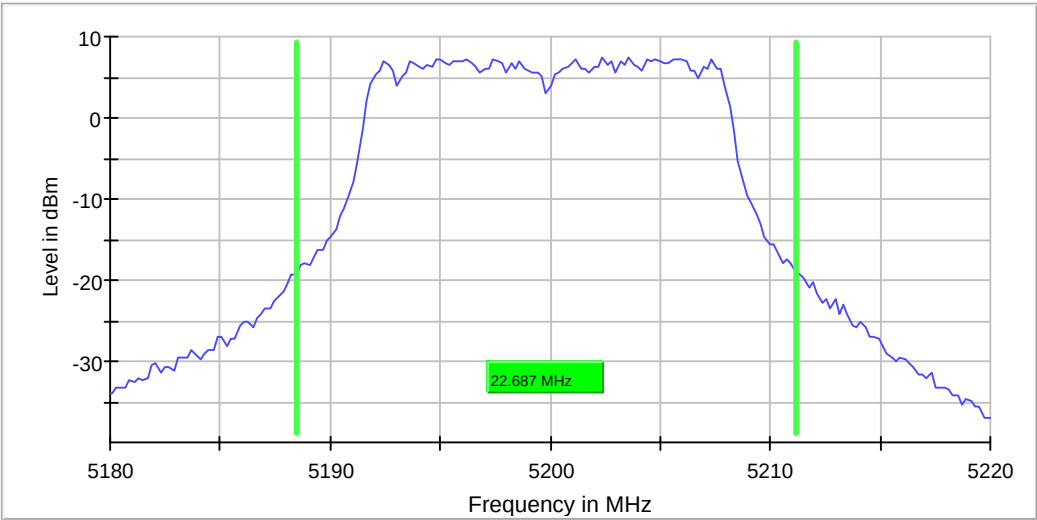
Setting	Instrument Value	Target Value
Start Frequency	5.18866 GHz	5.18866 GHz
Stop Frequency	5.21134 GHz	5.21134 GHz
Span	22.687 MHz	22.687 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-10.000 dBm	-20.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5200.000000	22.686568	---	---	5188.457711	5211.144279	7.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	31 / max. 150	max. 150
Stable	5 / 5	5

Tx Spurious Emission (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5200.000000	PASS

Final measurements

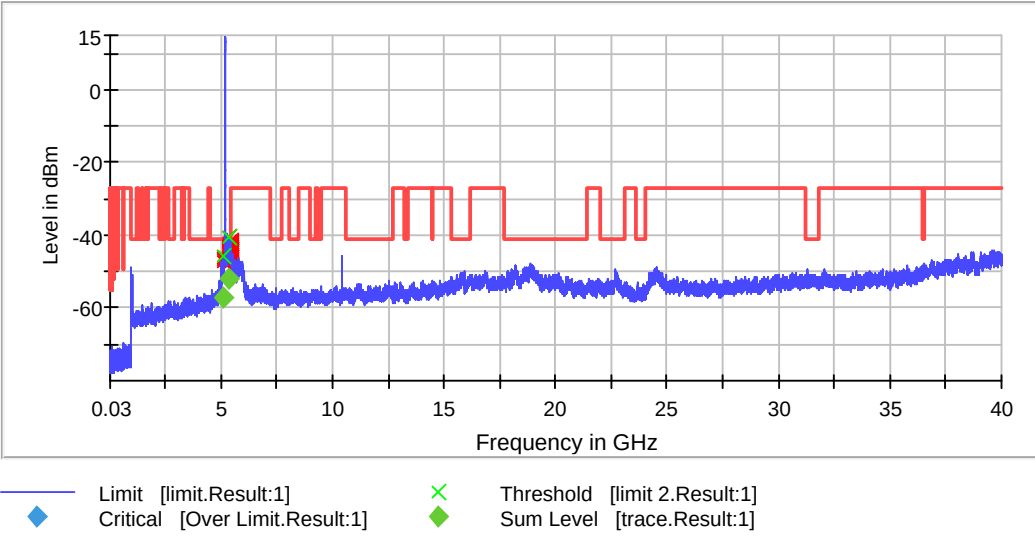
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5119.507348	-45.8	-57.0	-41.2	15.7	PASS
5357.438017	-40.4	-51.9	-41.2	10.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5357.438017	-40.4	-0.8	-41.2
5358.429752	-40.6	-0.6	-41.2
5407.024793	-41.4	0.1	-41.2
5410.991736	-41.9	0.7	-41.2
5397.107438	-42.2	1.0	-41.2
5392.148760	-42.2	1.0	-41.2
5433.801653	-42.2	1.0	-41.2
5408.016529	-42.2	1.0	-41.2
5396.115702	-42.4	1.2	-41.2
5391.157025	-42.4	1.2	-41.2
5384.214876	-42.6	1.4	-41.2
5399.090909	-42.6	1.4	-41.2
5410.000000	-42.6	1.4	-41.2
5429.834711	-42.8	1.6	-41.2
5377.272727	-42.9	1.7	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5240 MHz; 22.4876 MHz)

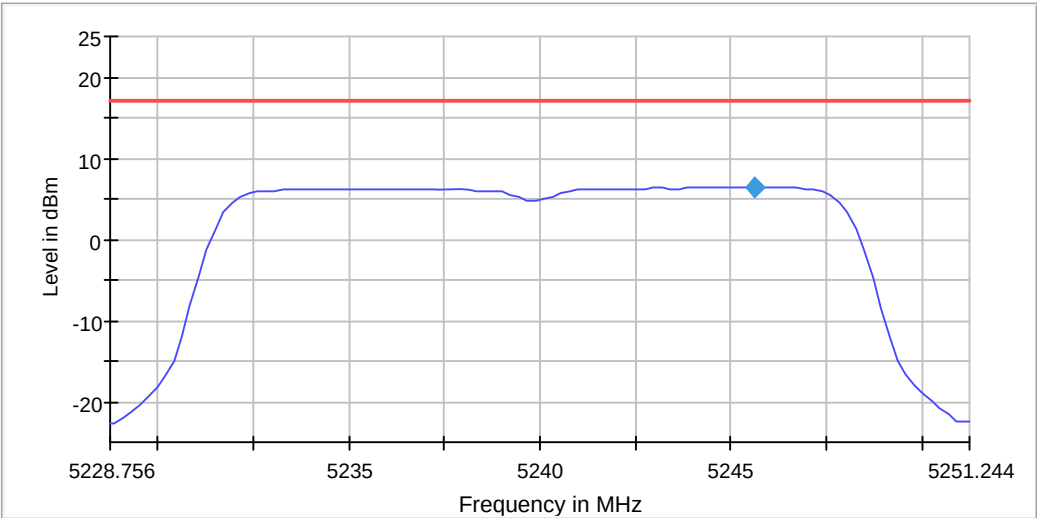
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5245.621900	6.481	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.889



Measurement

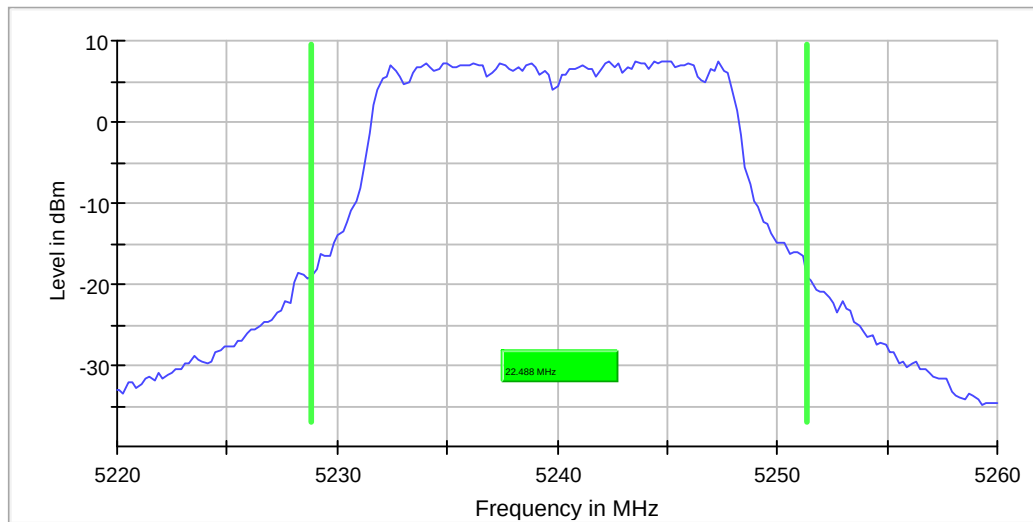
Setting	Instrument Value	Target Value
Start Frequency	5.22876 GHz	5.22876 GHz
Stop Frequency	5.25124 GHz	5.25124 GHz
Span	22.488 MHz	22.488 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-10.000 dBm	-20.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5240.000000	22.487563	---	---	5228.855721	5251.343284	7.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	51 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

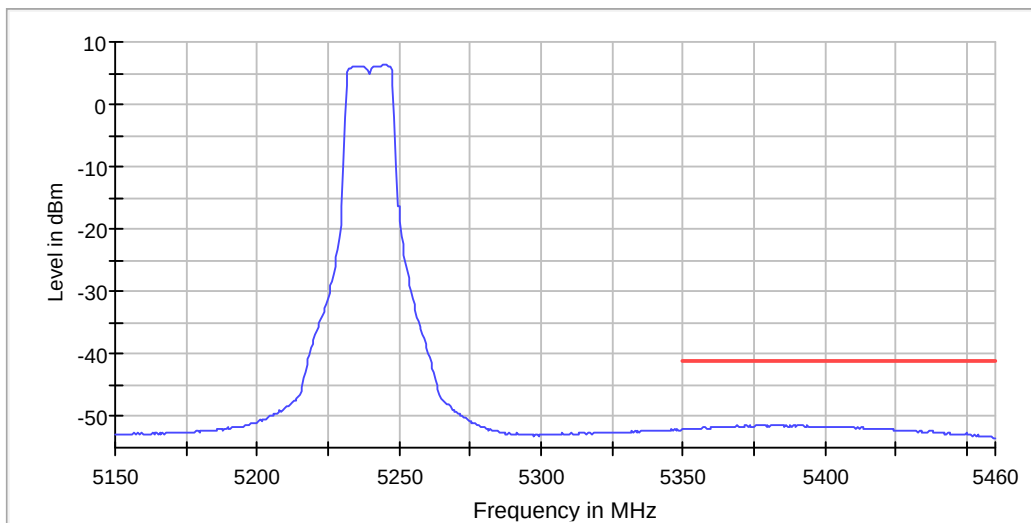
DUT Frequency (MHz)	Result
5240.000000	FAIL

Inband Peak

Frequency (MHz)	Level (dBm)
5245.273632	6.3

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5375.950119	-51.4	10.1	-41.2	PASS
5372.458432	-51.4	10.1	-41.2	PASS
5390.914489	-51.4	10.2	-41.2	PASS
5381.935867	-51.4	10.2	-41.2	PASS
5392.410926	-51.4	10.2	-41.2	PASS
5384.928741	-51.4	10.2	-41.2	PASS
5380.938242	-51.4	10.2	-41.2	PASS
5379.940618	-51.4	10.2	-41.2	PASS
5383.931116	-51.4	10.2	-41.2	PASS
5378.444181	-51.4	10.2	-41.2	PASS
5376.947743	-51.4	10.2	-41.2	PASS
5382.933492	-51.4	10.2	-41.2	PASS
5388.919240	-51.4	10.2	-41.2	PASS
5382.434679	-51.4	10.2	-41.2	PASS
5383.432304	-51.4	10.2	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5240.000000	PASS

Final measurements

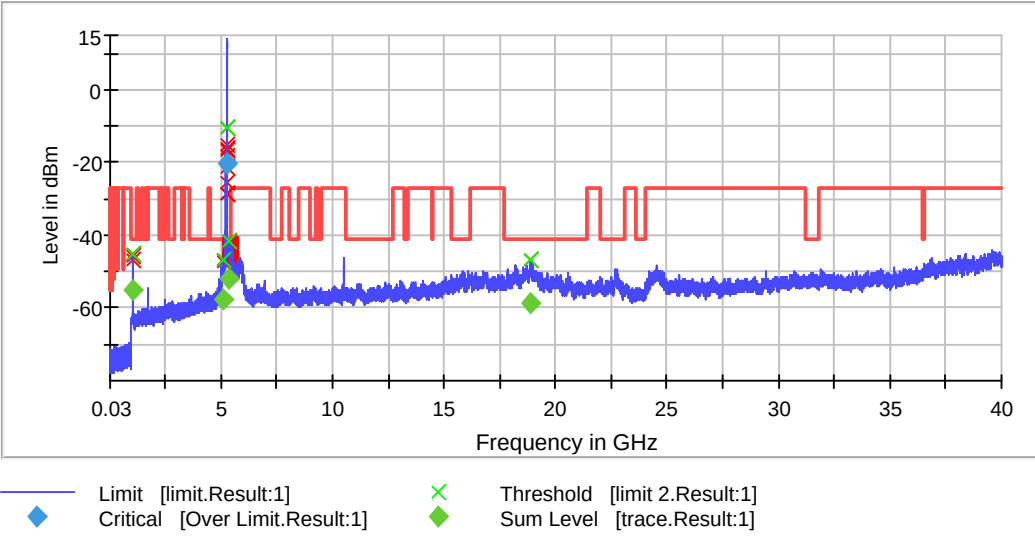
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
1035.491448	-45.0	-55.0	-41.2	13.8	PASS
5107.510238	-46.8	-57.5	-41.2	16.3	PASS
5378.264463	-41.8	-51.7	-41.2	10.5	PASS
18868.875322	-46.8	-58.8	-41.2	17.6	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5378.264463	-41.8	0.6	-41.2
5379.256198	-41.9	0.7	-41.2
5365.371901	-42.3	1.0	-41.2
5418.925620	-42.4	1.2	-41.2
5375.289256	-42.5	1.3	-41.2
5416.942149	-42.6	1.4	-41.2
5364.380165	-42.6	1.4	-41.2
5414.958678	-42.9	1.6	-41.2
5377.272727	-42.9	1.6	-41.2
5432.809917	-43.0	1.7	-41.2
5402.066116	-43.0	1.8	-41.2
5419.917355	-43.1	1.9	-41.2
5361.404959	-43.1	1.9	-41.2
5381.239669	-43.2	1.9	-41.2
5400.082645	-43.2	1.9	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant0 AC mode 20

Power Spectral Density (5180 MHz; 22.6866 MHz)

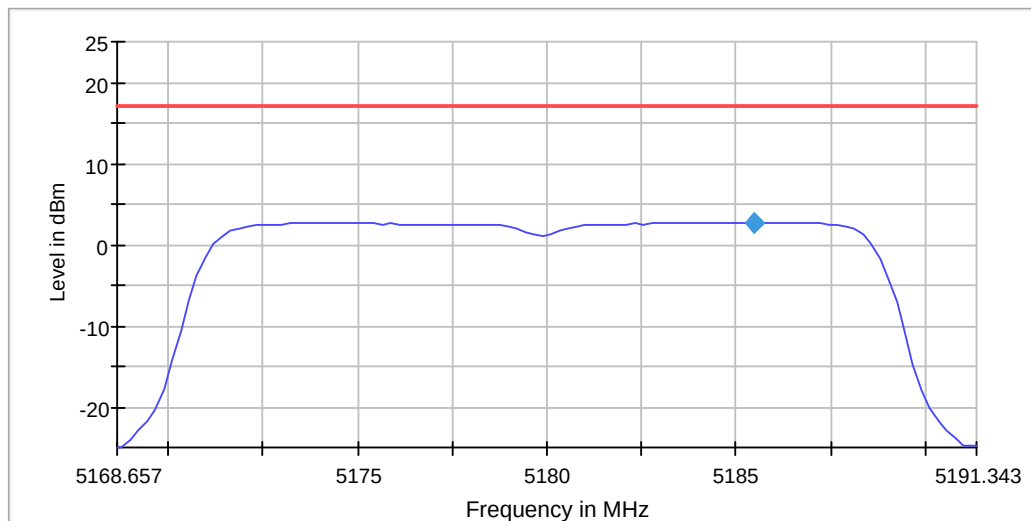
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5185.449232	2.778	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.391



Measurement

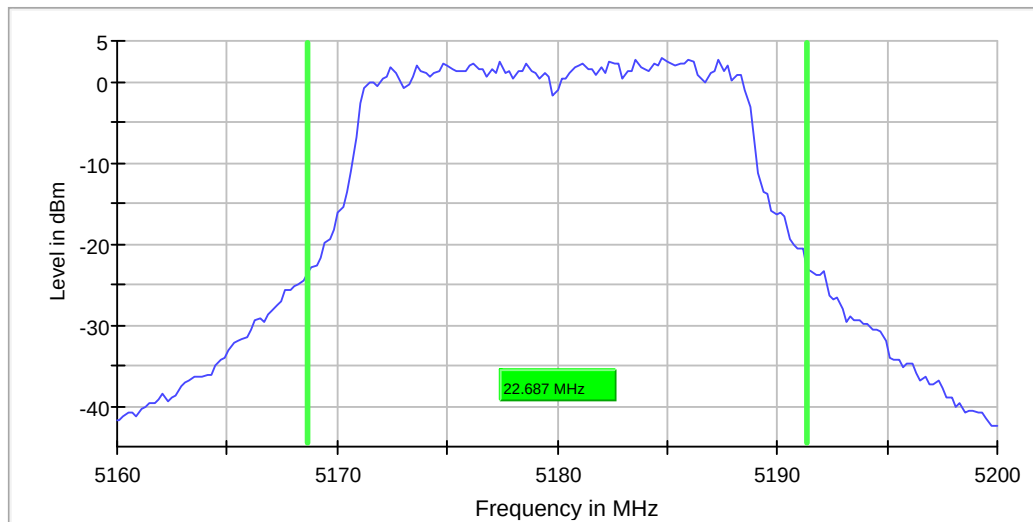
Setting	Instrument Value	Target Value
Start Frequency	5.16866 GHz	5.16866 GHz
Stop Frequency	5.19134 GHz	5.19134 GHz
Span	22.687 MHz	22.687 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5180.000000	22.686568	---	---	5168.656716	5191.343284	2.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	53 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

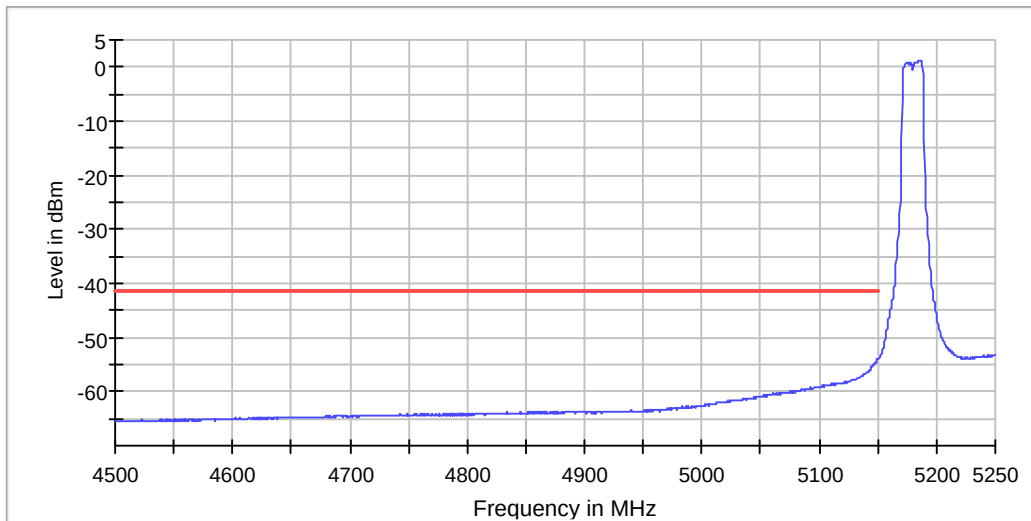
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5186.069652	1.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-54.1	12.8	-41.2	PASS
5148.750961	-54.5	13.2	-41.2	PASS
5148.251345	-54.5	13.3	-41.2	PASS
5147.751729	-54.7	13.4	-41.2	PASS
5147.252114	-54.8	13.6	-41.2	PASS
5146.752498	-54.9	13.7	-41.2	PASS
5146.252882	-55.1	13.9	-41.2	PASS
5145.753267	-55.1	13.9	-41.2	PASS
5144.754035	-55.4	14.2	-41.2	PASS
5145.253651	-55.4	14.2	-41.2	PASS
5144.254420	-55.7	14.5	-41.2	PASS
5143.754804	-55.9	14.6	-41.2	PASS
5142.755573	-56.0	14.8	-41.2	PASS
5143.255188	-56.0	14.8	-41.2	PASS
5142.255957	-56.2	15.0	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5180.000000	PASS

Final measurements

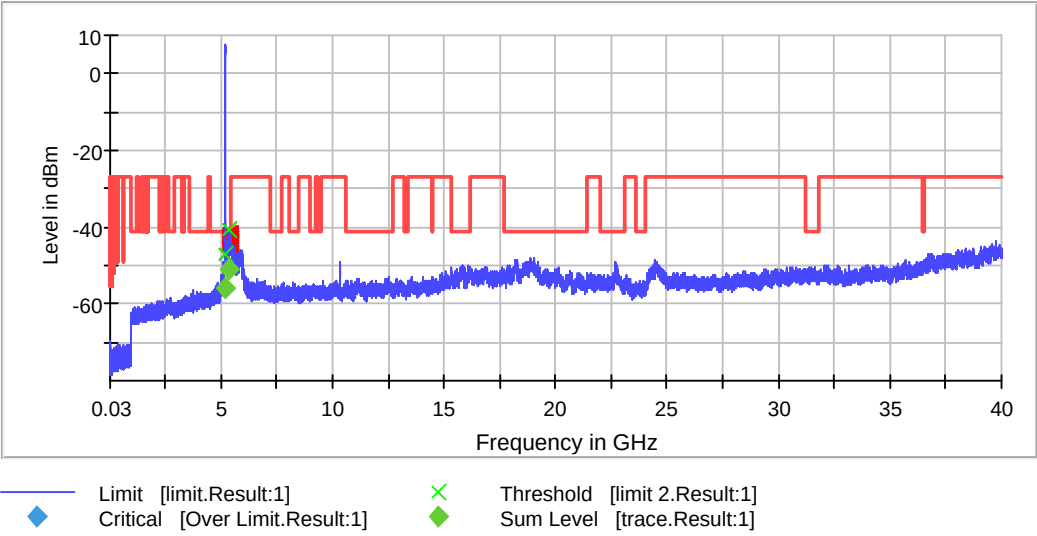
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-47.2	-55.9	-41.2	14.6	PASS
5389.173554	-40.9	-51.0	-41.2	9.8	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5389.173554	-40.9	-0.3	-41.2
5397.107438	-41.4	0.2	-41.2
5383.223140	-41.8	0.6	-41.2
5388.181818	-41.9	0.7	-41.2
5382.231405	-42.1	0.9	-41.2
5373.305785	-42.1	0.9	-41.2
5359.421488	-42.2	0.9	-41.2
5358.429752	-42.3	1.0	-41.2
5353.471074	-42.3	1.1	-41.2
5402.066116	-42.3	1.1	-41.2
5385.206612	-42.4	1.2	-41.2
5395.123967	-42.4	1.2	-41.2
5400.082645	-42.5	1.2	-41.2
5386.198347	-42.5	1.3	-41.2
5399.090909	-42.5	1.3	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 22.8856 MHz)

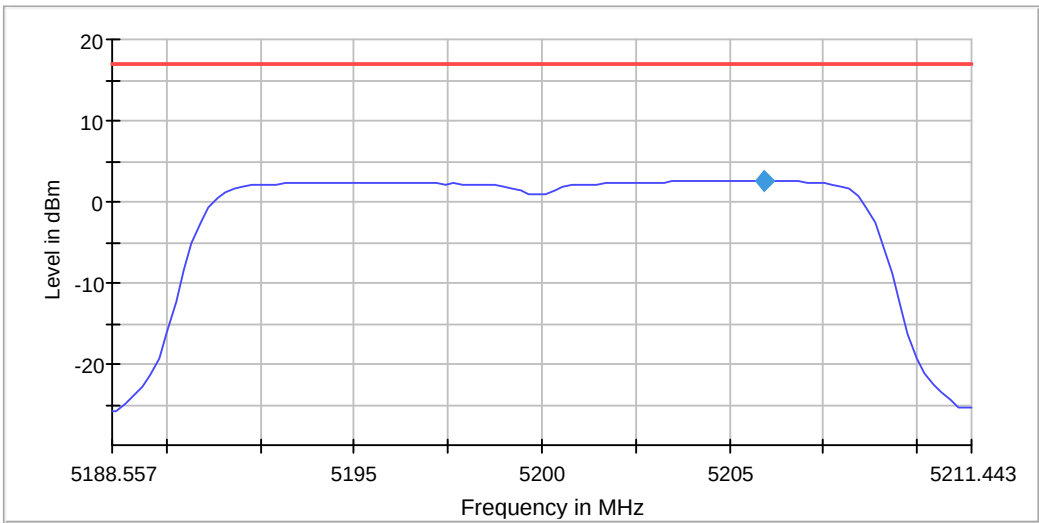
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5205.945769	2.596	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.303



Measurement

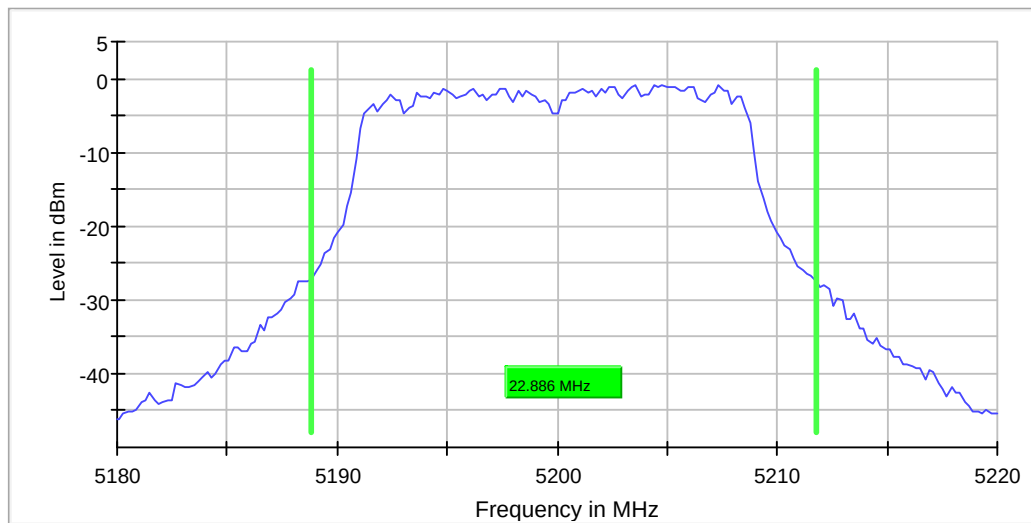
Setting	Instrument Value	Target Value
Start Frequency	5.18856 GHz	5.18856 GHz
Stop Frequency	5.21144 GHz	5.21144 GHz
Span	22.886 MHz	22.886 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5200.000000	22.885573	---	---	5188.855721	5211.741294	-0.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	48 / max. 150	max. 150
Stable	5 / 5	5

Tx Spurious Emission (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5200.000000	PASS

Final measurements

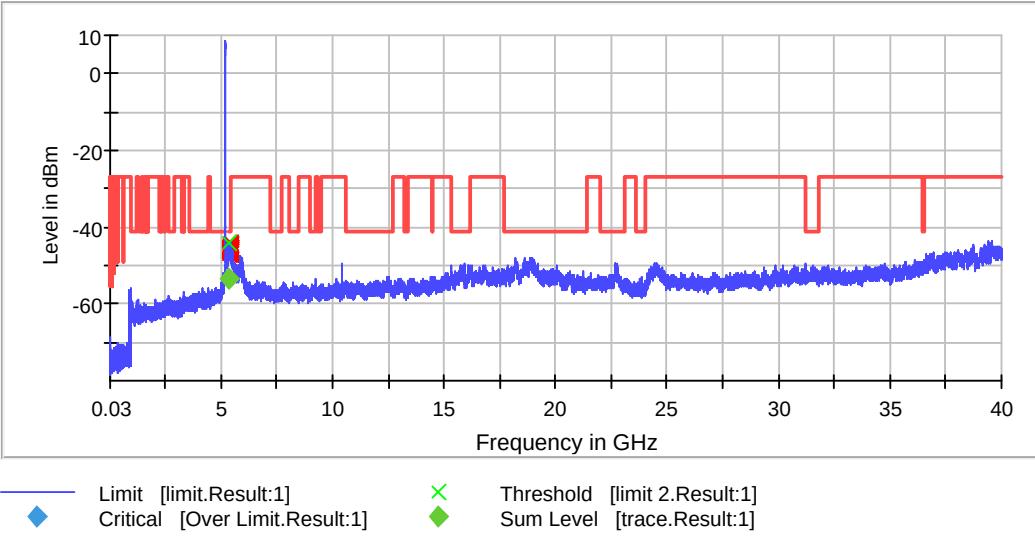
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5387.190083	-43.9	-53.3	-41.2	12.1	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5387.190083	-43.9	2.7	-41.2
5414.958678	-44.0	2.7	-41.2
5417.933884	-44.4	3.2	-41.2
5416.942149	-44.5	3.3	-41.2
5428.842975	-44.5	3.3	-41.2
5439.752066	-44.5	3.3	-41.2
5427.851240	-44.5	3.3	-41.2
5388.181818	-44.6	3.4	-41.2
5440.743802	-44.7	3.5	-41.2
5426.859504	-44.7	3.5	-41.2
5392.148760	-44.8	3.6	-41.2
5393.140496	-45.0	3.8	-41.2
5386.198347	-45.0	3.8	-41.2
5402.066116	-45.1	3.9	-41.2
5361.404959	-45.1	3.9	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5240 MHz; 22.8856 MHz)

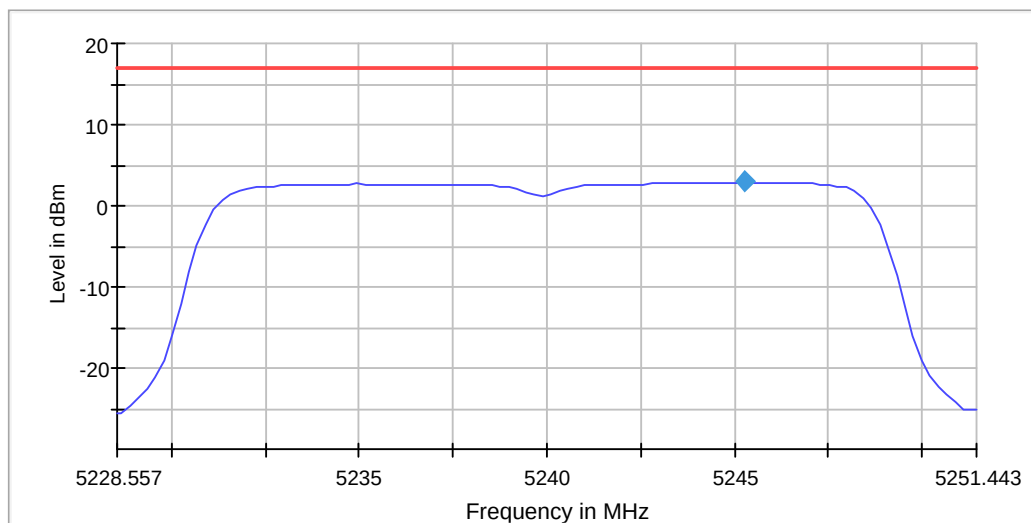
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5245.272663	2.923	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.306



Measurement

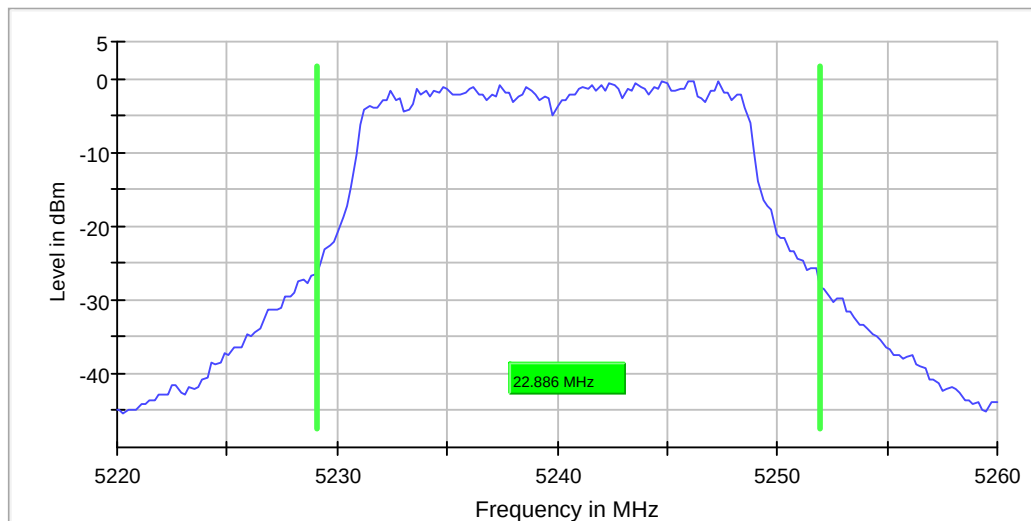
Setting	Instrument Value	Target Value
Start Frequency	5.22856 GHz	5.22856 GHz
Stop Frequency	5.25144 GHz	5.25144 GHz
Span	22.886 MHz	22.886 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5240.000000	22.885573	---	---	5229.054726	5251.940299	-0.3	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	39 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

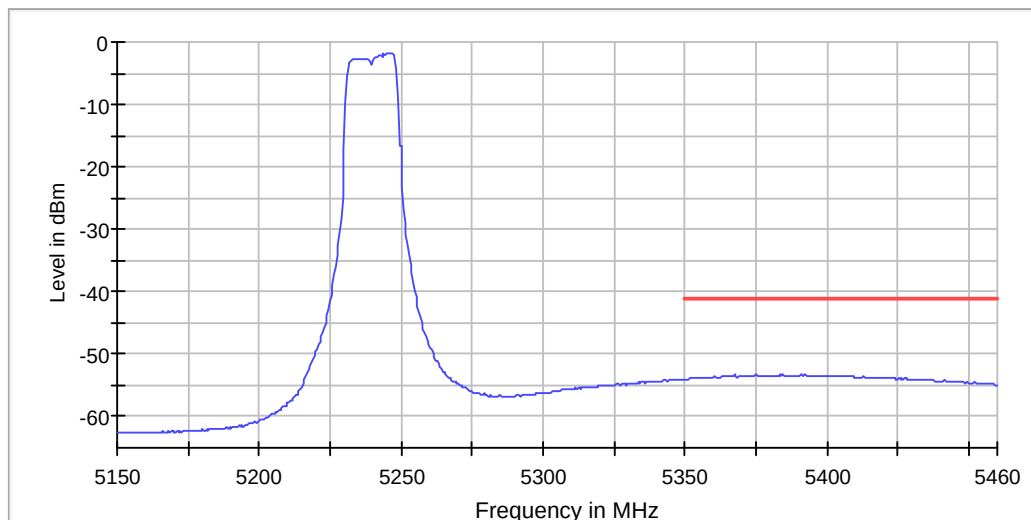
DUT Frequency (MHz)	Result
5240.000000	FAIL

Inband Peak

Frequency (MHz)	Level (dBm)
5245.771144	-1.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5383.432304	-53.3	12.1	-41.2	PASS
5384.429929	-53.3	12.1	-41.2	PASS
5392.410926	-53.3	12.1	-41.2	PASS
5374.952494	-53.3	12.1	-41.2	PASS
5367.470309	-53.3	12.1	-41.2	PASS
5390.914489	-53.4	12.1	-41.2	PASS
5373.954869	-53.4	12.1	-41.2	PASS
5388.420428	-53.4	12.1	-41.2	PASS
5381.437055	-53.4	12.1	-41.2	PASS
5384.928741	-53.4	12.2	-41.2	PASS
5386.923990	-53.4	12.2	-41.2	PASS
5396.401425	-53.4	12.2	-41.2	PASS
5380.439430	-53.4	12.2	-41.2	PASS
5376.448931	-53.4	12.2	-41.2	PASS
5393.408551	-53.4	12.2	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5240.000000	FAIL

Final measurements

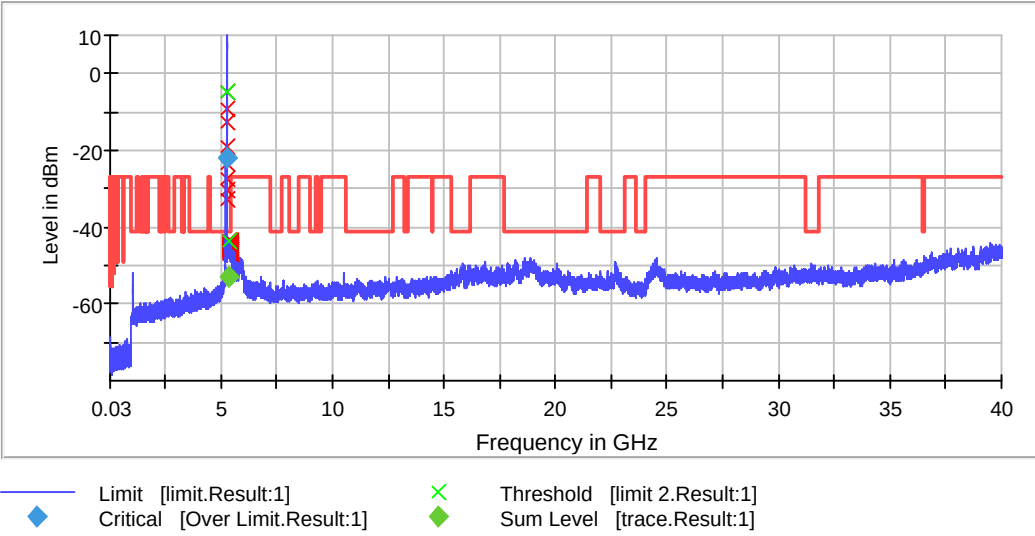
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5250.490196	-4.8	-22.1	---	---	FAIL
5379.256198	-43.4	-53.1	-41.2	11.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5379.256198	-43.4	2.2	-41.2
5402.066116	-43.5	2.3	-41.2
5414.958678	-43.5	2.3	-41.2
5380.247934	-43.6	2.4	-41.2
5378.264463	-43.7	2.4	-41.2
5424.876033	-43.8	2.5	-41.2
5389.173554	-43.8	2.6	-41.2
5361.404959	-43.8	2.6	-41.2
5362.396694	-43.8	2.6	-41.2
5408.016529	-43.9	2.7	-41.2
5381.239669	-44.0	2.8	-41.2
5377.272727	-44.1	2.8	-41.2
5409.008264	-44.2	2.9	-41.2
5367.355372	-44.2	2.9	-41.2
5374.297521	-44.3	3.0	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant1 AC mode 40

Power Spectral Density (5190 MHz; 43.2836 MHz)

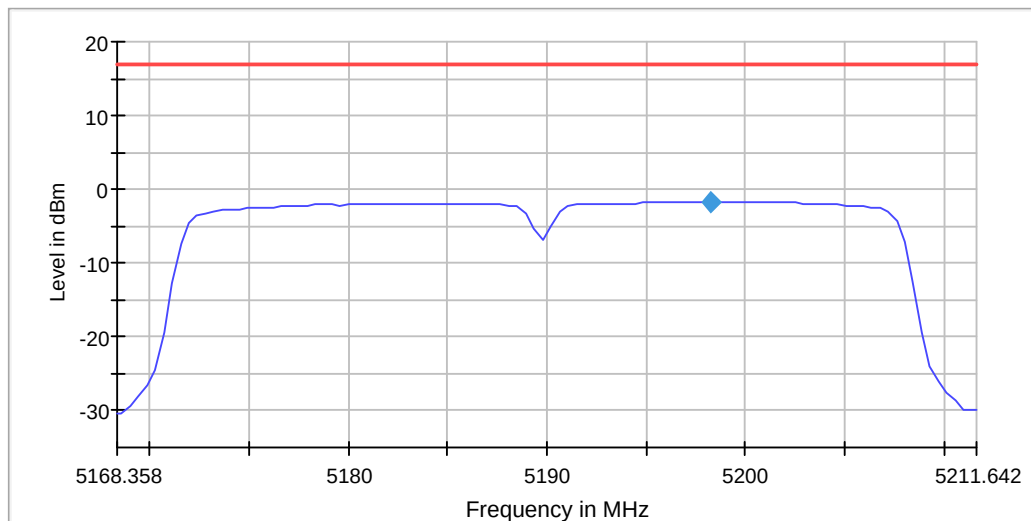
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5190.000000	5198.274806	-1.718	17.0	PASS

Ports

Port	Duty Cycle (%)
1	92.916



Measurement

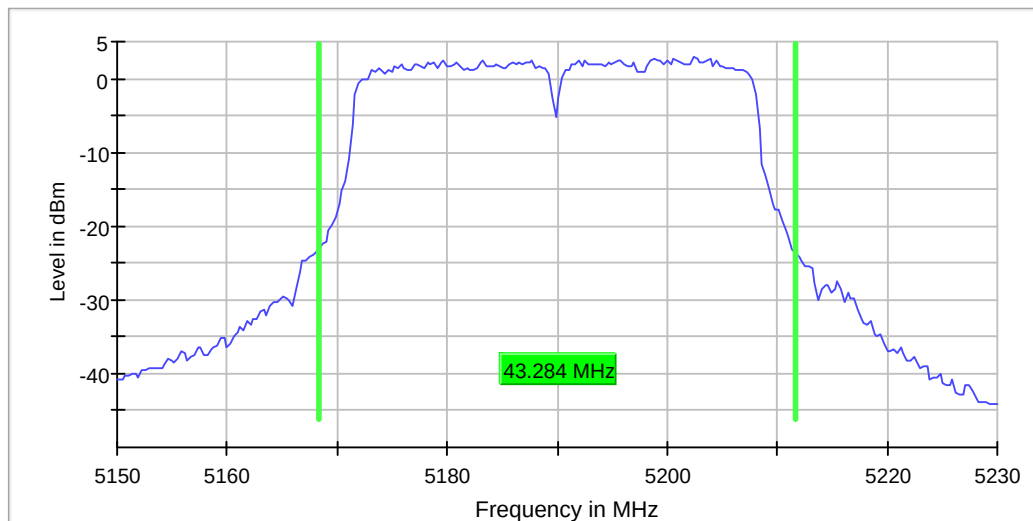
Setting	Instrument Value	Target Value
Start Frequency	5.16836 GHz	5.16836 GHz
Stop Frequency	5.21164 GHz	5.21164 GHz
Span	43.284 MHz	43.284 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 87
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5190.000000	43.283582	---	---	5168.358209	5211.641791	2.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.23000 GHz	5.23000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	69 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

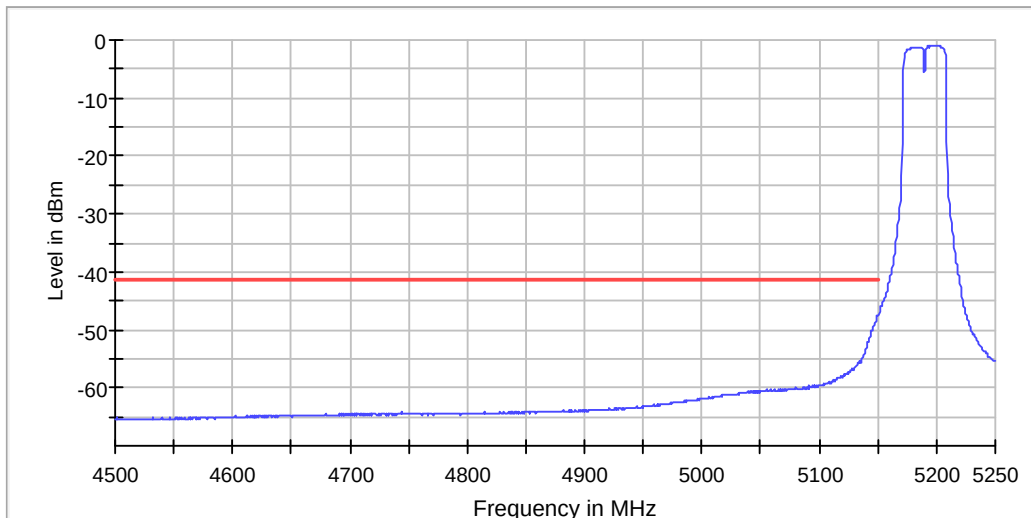
DUT Frequency (MHz)	Result
5190.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5198.009950	-0.9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-47.5	6.3	-41.2	PASS
5148.750961	-48.0	6.8	-41.2	PASS
5148.251345	-48.4	7.2	-41.2	PASS
5147.751729	-48.7	7.5	-41.2	PASS
5147.252114	-48.9	7.7	-41.2	PASS
5146.752498	-49.2	8.0	-41.2	PASS
5146.252882	-49.4	8.2	-41.2	PASS
5145.753267	-49.8	8.5	-41.2	PASS
5145.253651	-50.1	8.8	-41.2	PASS
5144.754035	-50.2	9.0	-41.2	PASS
5144.254420	-50.5	9.2	-41.2	PASS
5143.754804	-50.9	9.7	-41.2	PASS
5143.255188	-51.1	9.9	-41.2	PASS
5142.755573	-51.4	10.2	-41.2	PASS
5142.255957	-51.8	10.6	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5190.000000	PASS

Final measurements

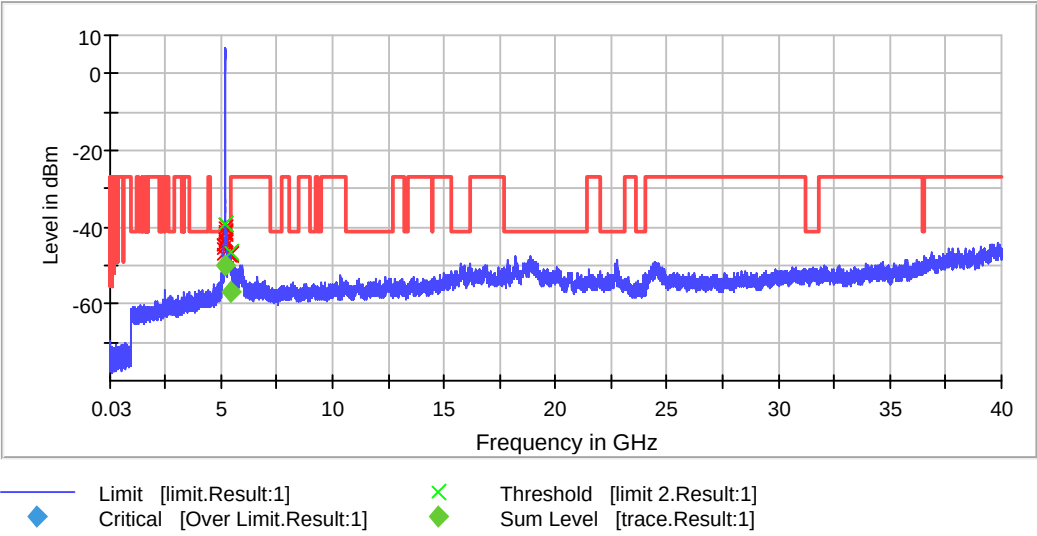
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5147.500602	-39.0	-49.9	-41.2	8.6	PASS
5422.892562	-46.4	-57.0	-41.2	15.8	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5147.500602	-39.0	-2.2	-41.2
5148.500361	-40.2	-1.0	-41.2
5146.500843	-41.3	0.0	-41.2
5145.501084	-41.7	0.5	-41.2
5143.501566	-42.9	1.7	-41.2
5144.501325	-43.4	2.2	-41.2
5142.501807	-44.3	3.1	-41.2
5140.502289	-44.4	3.1	-41.2
5141.502048	-44.5	3.3	-41.2
5139.502530	-44.8	3.6	-41.2
5138.502770	-45.7	4.5	-41.2
5422.892562	-46.4	5.2	-41.2
5410.991736	-46.9	5.7	-41.2
5136.503252	-46.9	5.7	-41.2
5421.900826	-47.0	5.7	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5230 MHz; 43.2836 MHz)

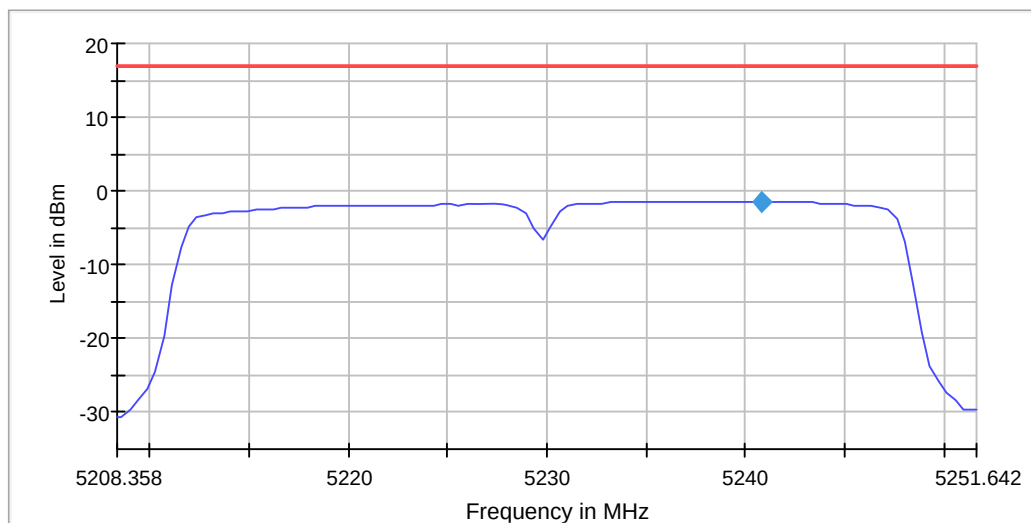
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5230.000000	5240.820900	-1.377	17.0	PASS

Ports

Port	Duty Cycle (%)
1	93.019



Measurement

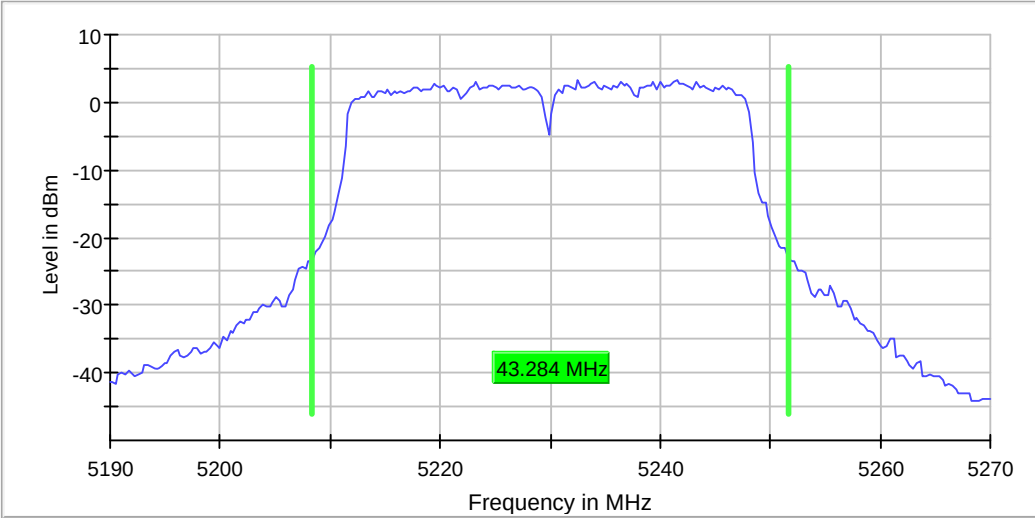
Setting	Instrument Value	Target Value
Start Frequency	5.20836 GHz	5.20836 GHz
Stop Frequency	5.25164 GHz	5.25164 GHz
Span	43.284 MHz	43.284 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 87
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5230.000000	43.283582	---	---	5208.358209	5251.641791	3.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	58 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

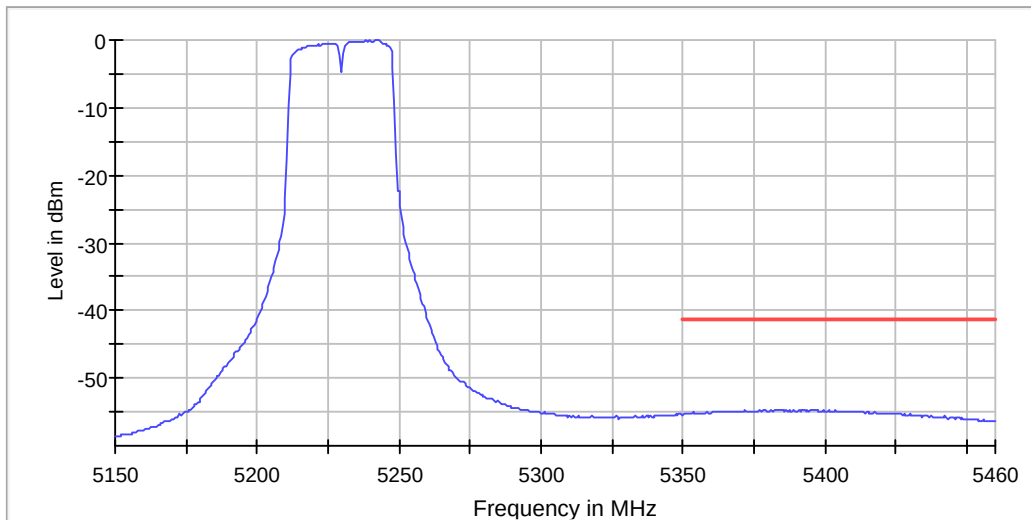
DUT Frequency (MHz)	Result
5230.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5242.786070	-0.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5382.933492	-54.7	13.5	-41.2	PASS
5393.907363	-54.7	13.5	-41.2	PASS
5403.883610	-54.7	13.5	-41.2	PASS
5387.422803	-54.7	13.5	-41.2	PASS
5384.429929	-54.8	13.5	-41.2	PASS
5397.399050	-54.8	13.5	-41.2	PASS
5376.947743	-54.8	13.6	-41.2	PASS
5395.902613	-54.8	13.6	-41.2	PASS
5378.942993	-54.8	13.6	-41.2	PASS
5401.389549	-54.8	13.6	-41.2	PASS
5395.403800	-54.8	13.6	-41.2	PASS
5386.425178	-54.8	13.6	-41.2	PASS
5391.912114	-54.8	13.6	-41.2	PASS
5384.928741	-54.8	13.6	-41.2	PASS
5396.401425	-54.8	13.6	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5230.000000	PASS

Final measurements

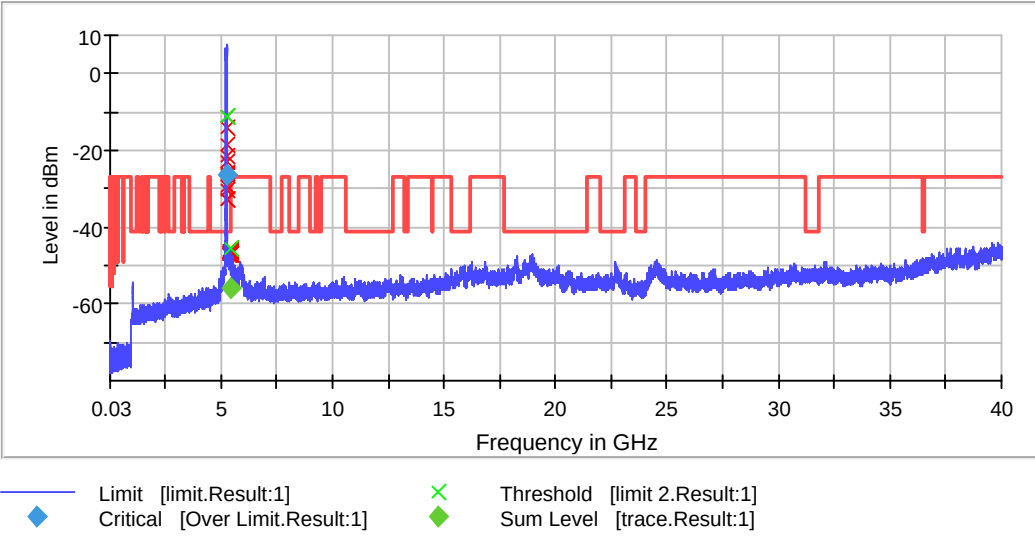
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5404.049587	-45.7	-55.7	-41.2	14.5	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5404.049587	-45.7	4.5	-41.2
5405.041322	-46.1	4.8	-41.2
5409.008264	-46.2	5.0	-41.2
5355.454545	-46.3	5.1	-41.2
5389.173554	-46.3	5.1	-41.2
5411.983471	-46.3	5.1	-41.2
5353.471074	-46.4	5.2	-41.2
5395.123967	-46.7	5.5	-41.2
5366.363636	-46.7	5.5	-41.2
5429.834711	-46.8	5.5	-41.2
5354.462810	-46.8	5.6	-41.2
5364.380165	-46.8	5.6	-41.2
5365.371901	-46.9	5.7	-41.2
5416.942149	-47.0	5.8	-41.2
5432.809917	-47.0	5.8	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant1 AC mode 80

Power Spectral Density (5210 MHz; 88.4472 MHz)

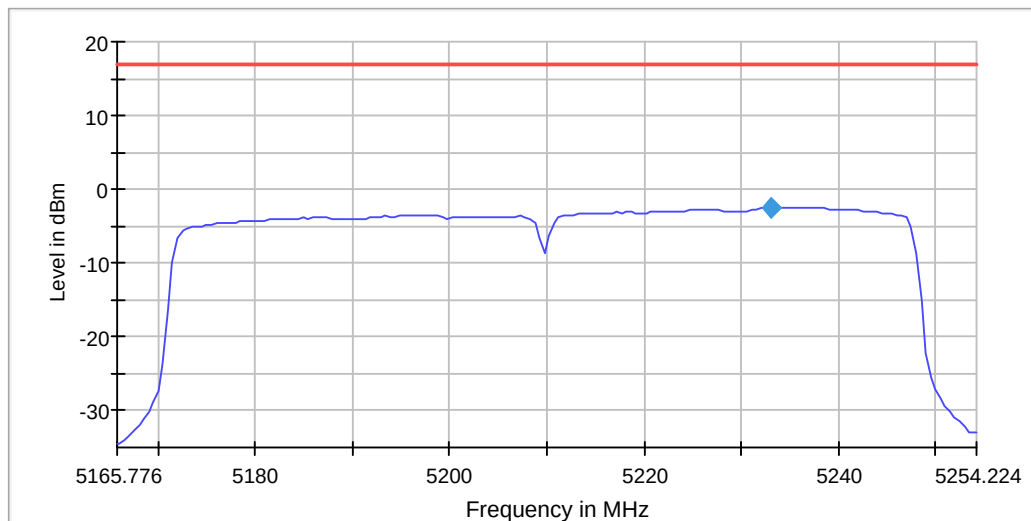
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5210.000000	5233.105589	-2.443	17.0	PASS

Ports

Port	Duty Cycle (%)
1	86.125



Measurement

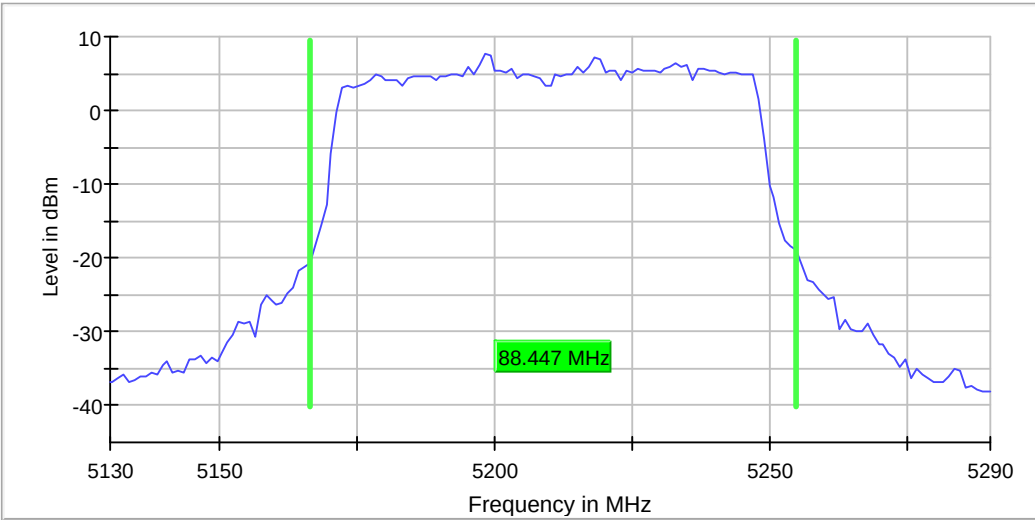
Setting	Instrument Value	Target Value
Start Frequency	5.16578 GHz	5.16578 GHz
Stop Frequency	5.25422 GHz	5.25422 GHz
Span	88.447 MHz	88.447 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	177	~ 177
SweepTime	3.540 s	3.540 s
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5210.000000	88.447205	---	---	5166.273292	5254.720497	7.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	22.754 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	25 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

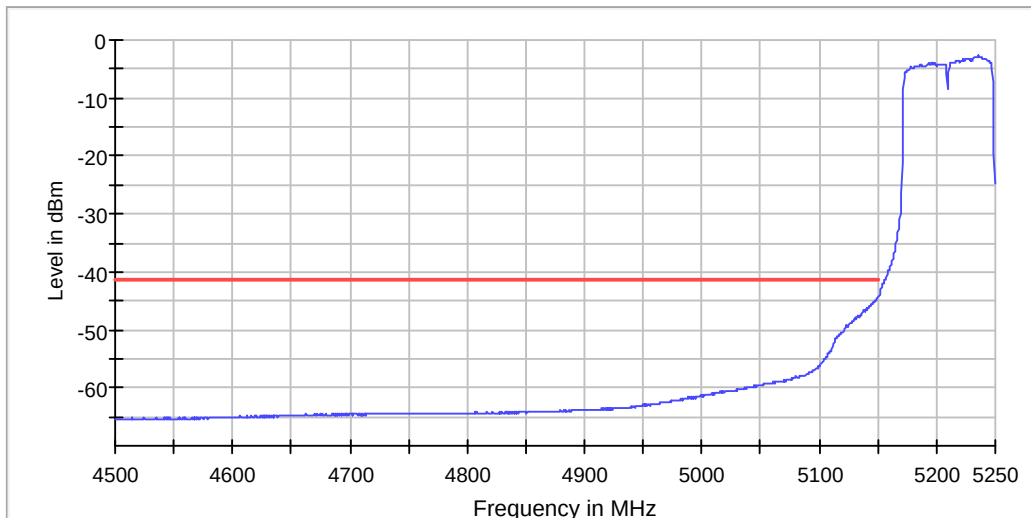
DUT Frequency (MHz)	Result
5210.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5235.820896	-2.7

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-44.6	3.3	-41.2	PASS
5148.750961	-44.7	3.4	-41.2	PASS
5148.251345	-44.8	3.6	-41.2	PASS
5147.751729	-45.0	3.7	-41.2	PASS
5147.252114	-45.1	3.9	-41.2	PASS
5146.752498	-45.2	3.9	-41.2	PASS
5145.753267	-45.3	4.0	-41.2	PASS
5146.252882	-45.4	4.2	-41.2	PASS
5144.754035	-45.6	4.4	-41.2	PASS
5145.253651	-45.7	4.5	-41.2	PASS
5142.755573	-45.8	4.6	-41.2	PASS
5144.254420	-45.8	4.6	-41.2	PASS
5142.255957	-46.0	4.8	-41.2	PASS
5143.255188	-46.0	4.8	-41.2	PASS
5143.754804	-46.0	4.8	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Band Edge high (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

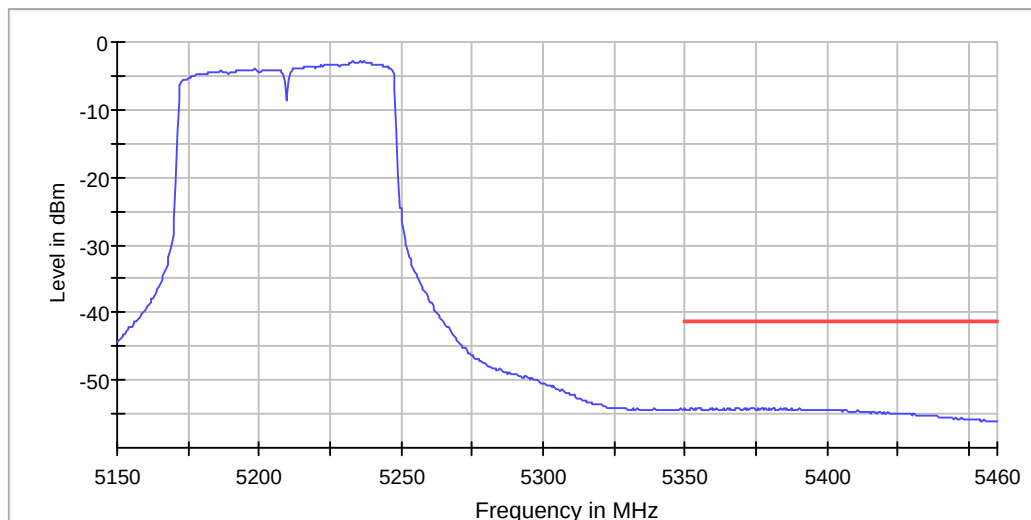
DUT Frequency (MHz)	Result
5210.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5232.835821	-2.9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5368.966746	-54.2	12.9	-41.2	PASS
5383.931116	-54.2	12.9	-41.2	PASS
5384.928741	-54.2	13.0	-41.2	PASS
5355.498812	-54.2	13.0	-41.2	PASS
5359.988124	-54.2	13.0	-41.2	PASS
5350.011876	-54.2	13.0	-41.2	PASS
5365.973872	-54.2	13.0	-41.2	PASS
5390.415677	-54.2	13.0	-41.2	PASS
5358.990499	-54.2	13.0	-41.2	PASS
5379.940618	-54.2	13.0	-41.2	PASS
5371.959620	-54.2	13.0	-41.2	PASS
5367.969121	-54.2	13.0	-41.2	PASS
5387.422803	-54.2	13.0	-41.2	PASS
5383.432304	-54.2	13.0	-41.2	PASS
5373.456057	-54.2	13.0	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5210.000000	PASS

Final measurements

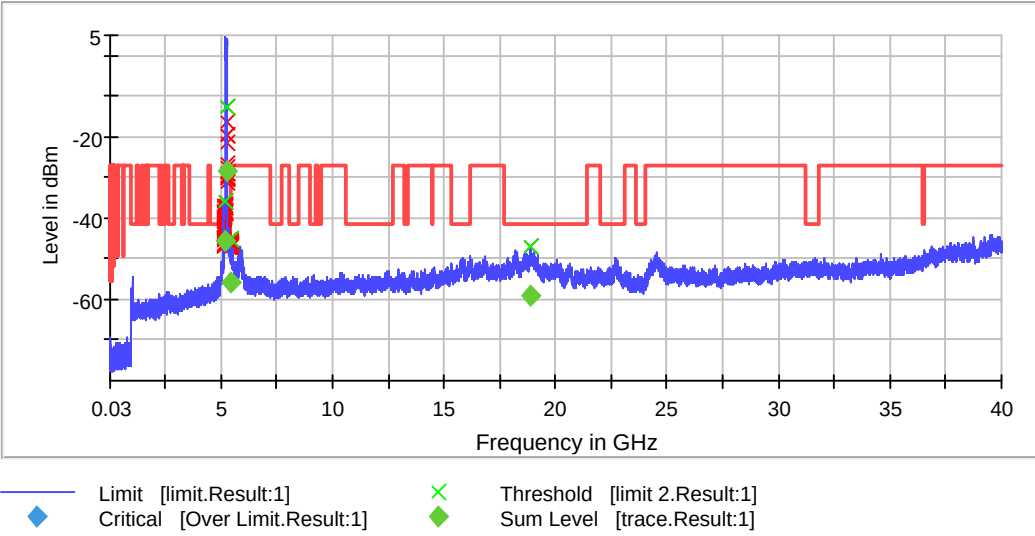
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-36.1	-45.5	-41.2	4.2	PASS
5250.490196	-12.9	-28.2	---	---	PASS
5419.917355	-45.4	-55.7	-41.2	14.5	PASS
18905.873375	-47.2	-59.1	-41.2	17.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5148.500361	-36.1	-5.2	-41.2
5140.502289	-36.6	-4.6	-41.2
5143.501566	-36.9	-4.3	-41.2
5147.500602	-37.2	-4.0	-41.2
5142.501807	-37.3	-4.0	-41.2
5135.503493	-37.4	-3.8	-41.2
5141.502048	-38.3	-3.0	-41.2
5138.502770	-38.3	-2.9	-41.2
5145.501084	-38.3	-2.9	-41.2
5139.502530	-38.4	-2.9	-41.2
5144.501325	-38.5	-2.7	-41.2
5122.506625	-38.6	-2.6	-41.2
5137.503011	-38.7	-2.5	-41.2
5146.500843	-38.8	-2.4	-41.2
5134.503734	-39.4	-1.9	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant1 NHT20

Power Spectral Density (5180 MHz; 23.0846 MHz)

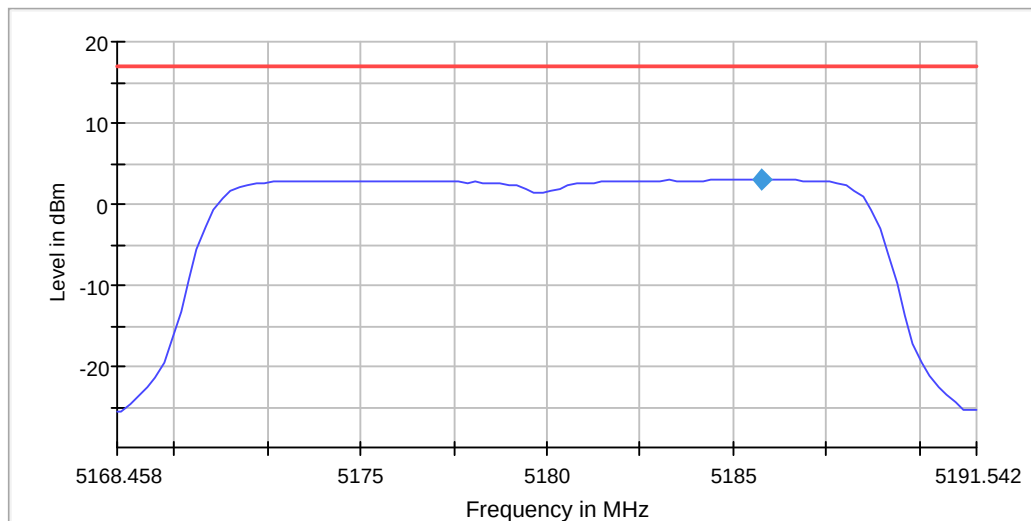
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5185.771150	3.038	17.0	PASS

Ports

Port	Duty Cycle (%)
1	94.983



Measurement

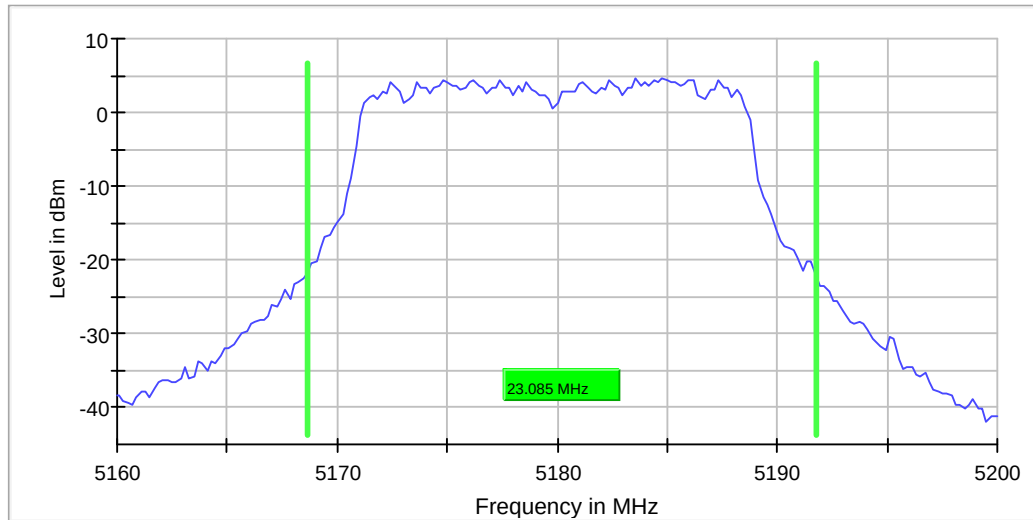
Setting	Instrument Value	Target Value
Start Frequency	5.16846 GHz	5.16846 GHz
Stop Frequency	5.19154 GHz	5.19154 GHz
Span	23.085 MHz	23.085 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5180.000000	23.084578	---	---	5168.656716	5191.741294	4.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	45 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

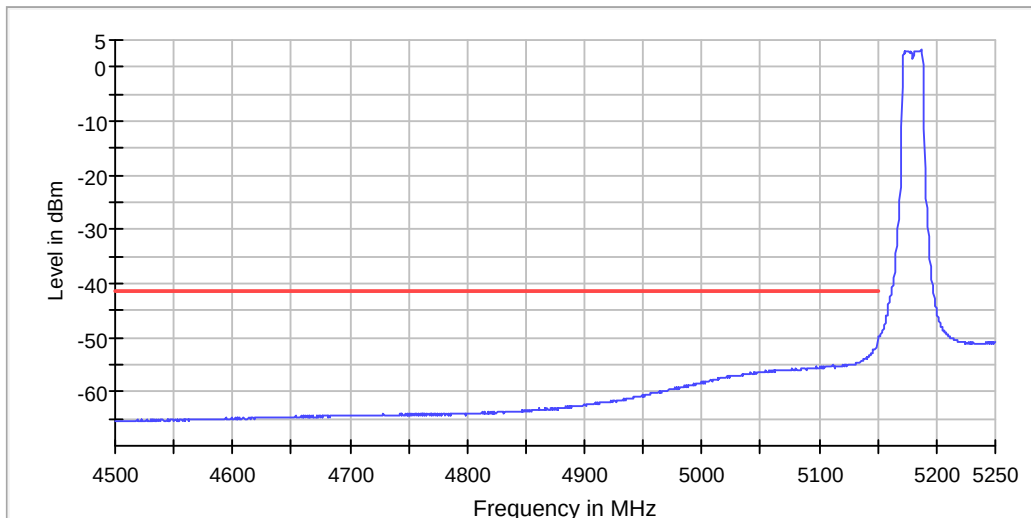
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5186.567164	3.1

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5148.750961	-51.9	10.7	-41.2	PASS
5149.250576	-51.9	10.7	-41.2	PASS
5148.251345	-52.0	10.7	-41.2	PASS
5147.751729	-52.1	10.8	-41.2	PASS
5147.252114	-52.1	10.9	-41.2	PASS
5146.752498	-52.3	11.1	-41.2	PASS
5146.252882	-52.4	11.1	-41.2	PASS
5145.753267	-52.7	11.5	-41.2	PASS
5144.754035	-52.9	11.6	-41.2	PASS
5145.253651	-52.9	11.7	-41.2	PASS
5144.254420	-53.1	11.9	-41.2	PASS
5143.754804	-53.1	11.9	-41.2	PASS
5143.255188	-53.2	12.0	-41.2	PASS
5142.755573	-53.3	12.1	-41.2	PASS
5142.255957	-53.5	12.3	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5180.000000	PASS

Final measurements

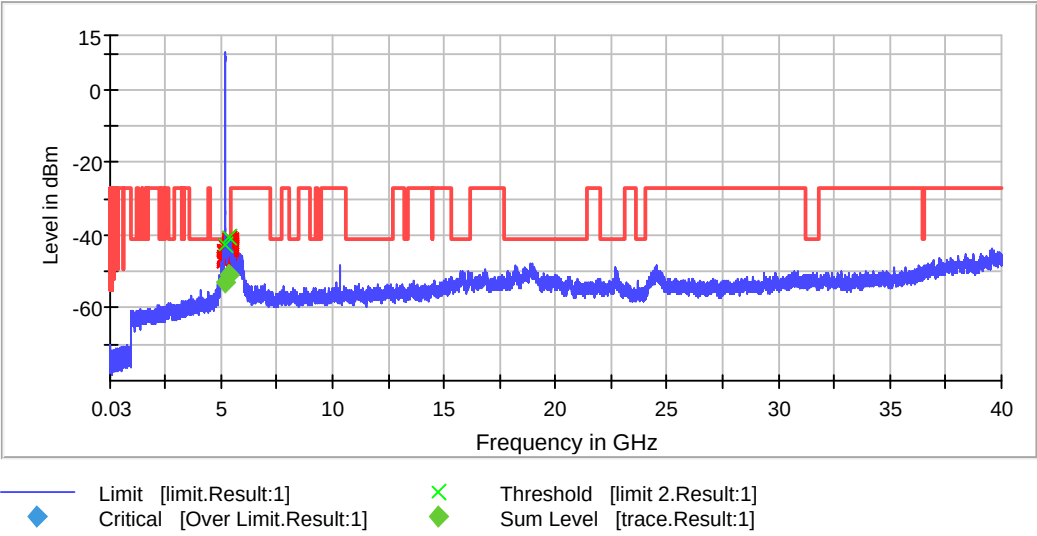
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5147.500602	-42.7	-53.0	-41.2	11.7	PASS
5352.479339	-40.8	-50.9	-41.2	9.6	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5352.479339	-40.8	-0.4	-41.2
5381.239669	-41.1	-0.1	-41.2
5351.487603	-41.1	-0.1	-41.2
5395.123967	-41.2	-0.1	-41.2
5380.247934	-41.3	0.0	-41.2
5365.371901	-41.3	0.1	-41.2
5414.958678	-41.4	0.1	-41.2
5396.115702	-41.4	0.2	-41.2
5434.793388	-41.6	0.4	-41.2
5413.966942	-41.7	0.4	-41.2
5435.785124	-41.7	0.5	-41.2
5358.429752	-41.7	0.5	-41.2
5362.396694	-41.8	0.6	-41.2
5393.140496	-41.8	0.6	-41.2
5405.041322	-41.9	0.6	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
Sweeptime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 23.4826 MHz)

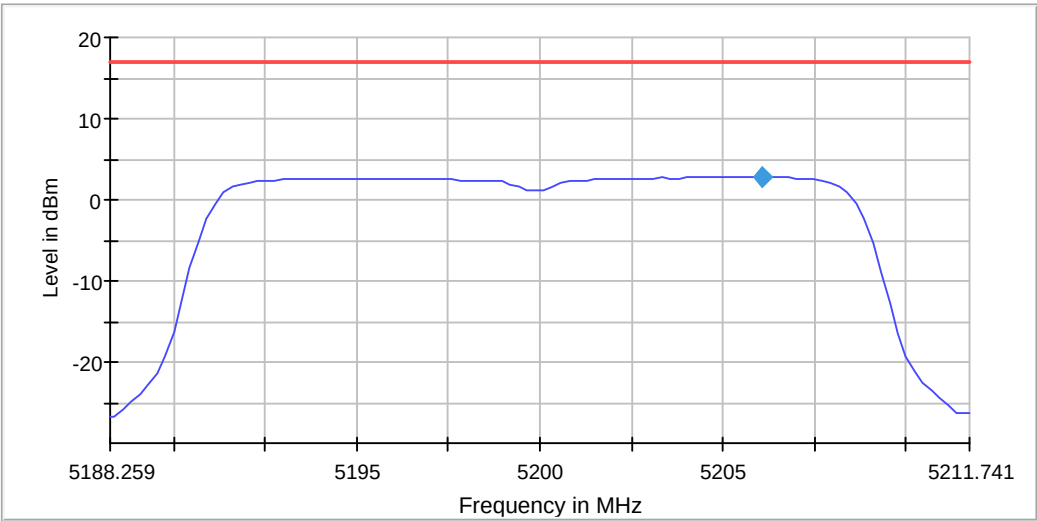
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5206.100872	2.840	17.0	PASS

Ports

Port	Duty Cycle (%)
1	94.619



Measurement

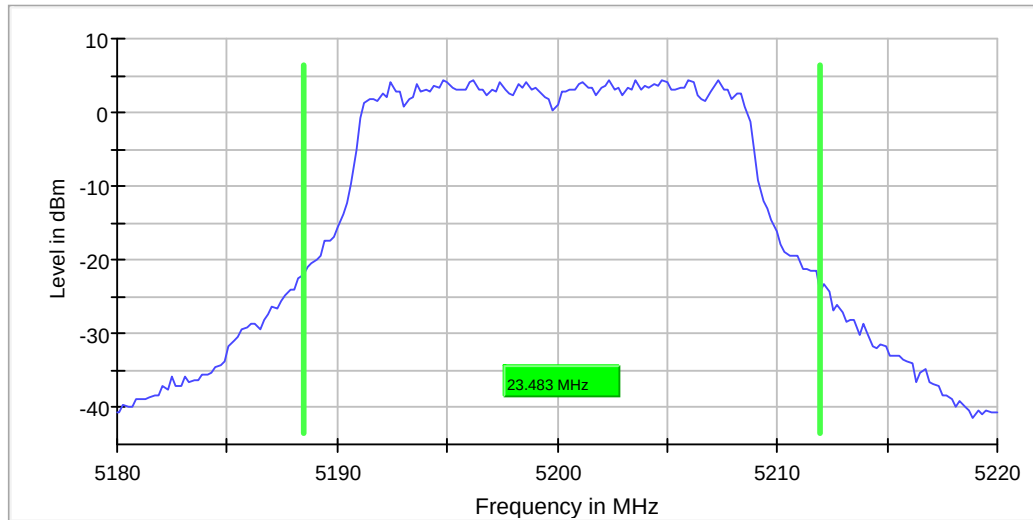
Setting	Instrument Value	Target Value
Start Frequency	5.18826 GHz	5.18826 GHz
Stop Frequency	5.21174 GHz	5.21174 GHz
Span	23.483 MHz	23.483 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 47
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5200.000000	23.482588	---	---	5188.457711	5211.940299	4.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	28 / max. 150	max. 150
Stable	5 / 5	5

Tx Spurious Emission (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5200.000000	PASS

Final measurements

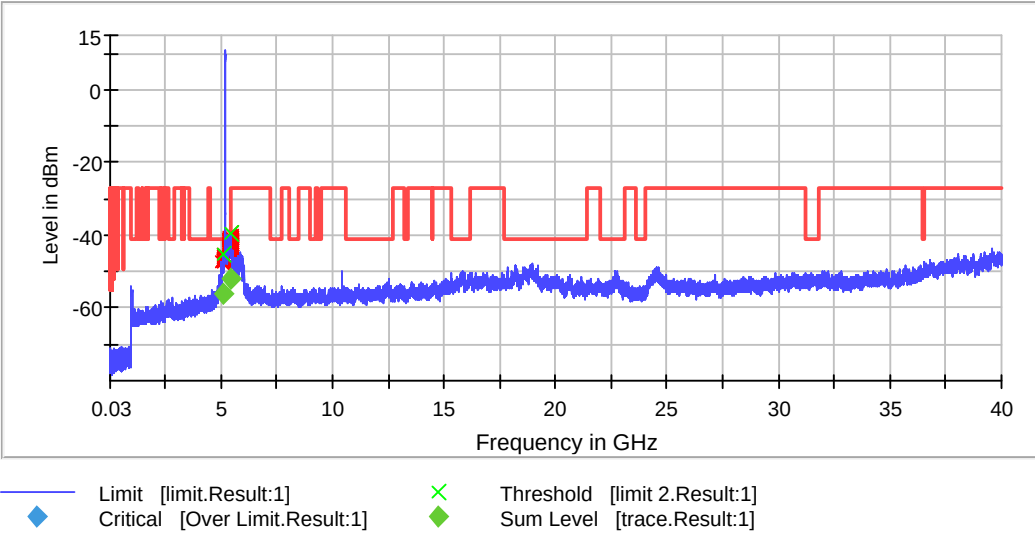
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5136.503252	-45.3	-56.3	-41.2	15.1	PASS
5429.834711	-39.6	-51.8	-41.2	10.6	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5429.834711	-39.6	-1.6	-41.2
5416.942149	-40.5	-0.8	-41.2
5379.256198	-40.6	-0.7	-41.2
5399.090909	-40.8	-0.4	-41.2
5400.082645	-40.9	-0.4	-41.2
5391.157025	-41.1	-0.1	-41.2
5392.148760	-41.2	-0.1	-41.2
5377.272727	-41.3	0.0	-41.2
5459.586777	-41.3	0.1	-41.2
5383.223140	-41.3	0.1	-41.2
5370.330579	-41.3	0.1	-41.2
5366.363636	-41.3	0.1	-41.2
5436.776860	-41.4	0.2	-41.2
5426.859504	-41.4	0.2	-41.2
5371.322314	-41.4	0.2	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
Sweeptime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5240 MHz; 23.6816 MHz)

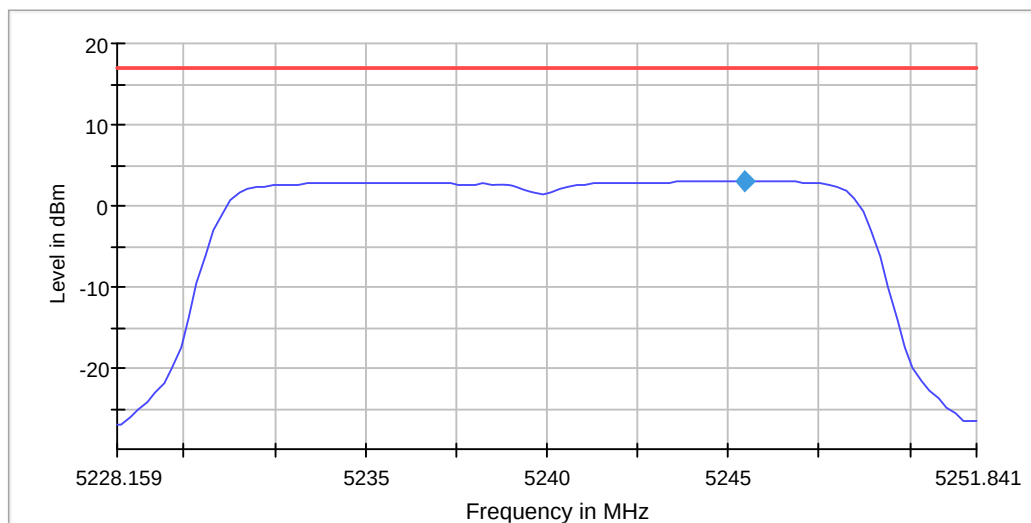
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5245.456055	3.086	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.161



Measurement

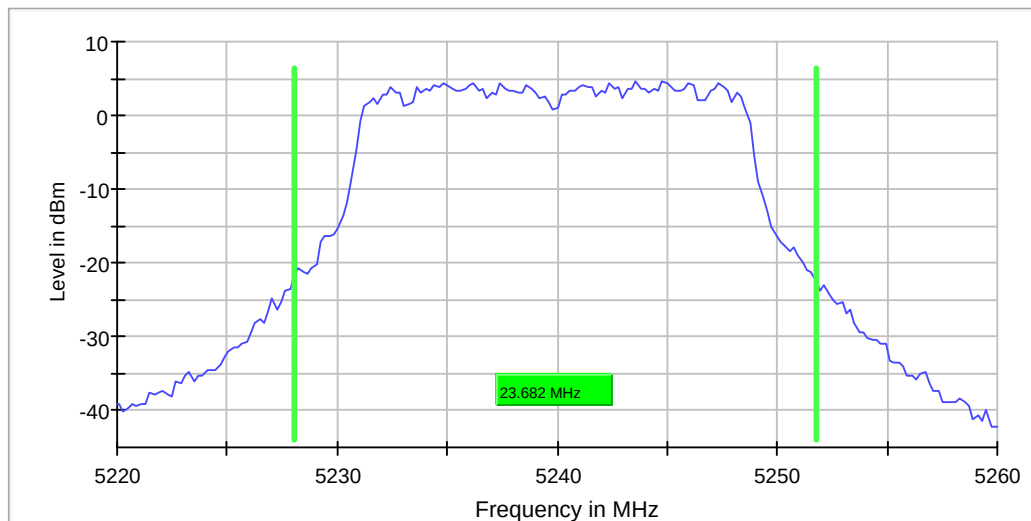
Setting	Instrument Value	Target Value
Start Frequency	5.22816 GHz	5.22816 GHz
Stop Frequency	5.25184 GHz	5.25184 GHz
Span	23.682 MHz	23.682 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 47
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5240.000000	23.681593	---	---	5228.059701	5251.741294	4.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	44 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

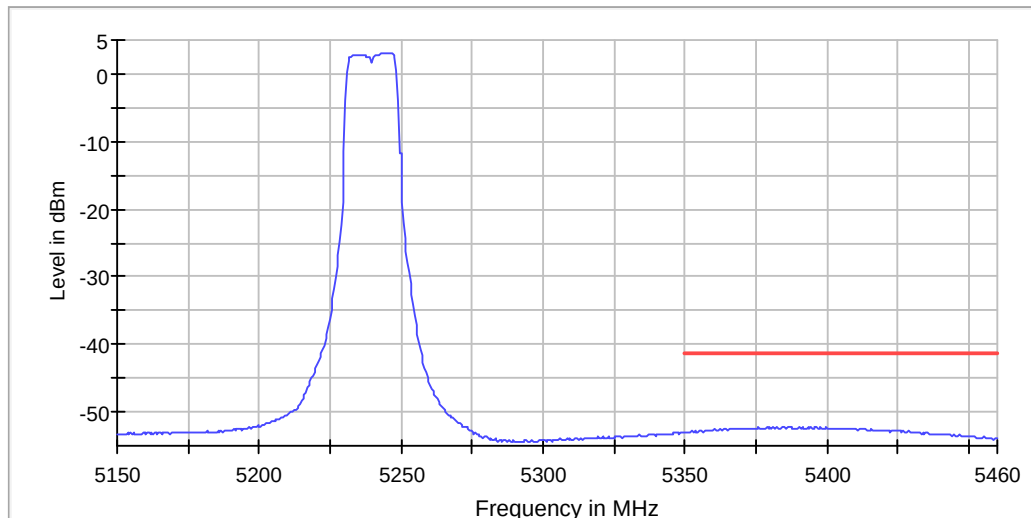
DUT Frequency (MHz)	Result
5240.000000	FAIL

Inband Peak

Frequency (MHz)	Level (dBm)
5244.776119	3.2

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5396.401425	-52.2	11.0	-41.2	PASS
5399.893112	-52.3	11.0	-41.2	PASS
5387.422803	-52.3	11.1	-41.2	PASS
5384.429929	-52.3	11.1	-41.2	PASS
5391.413302	-52.3	11.1	-41.2	PASS
5382.434679	-52.3	11.1	-41.2	PASS
5386.425178	-52.3	11.1	-41.2	PASS
5394.406176	-52.3	11.1	-41.2	PASS
5393.408551	-52.3	11.1	-41.2	PASS
5395.902613	-52.3	11.1	-41.2	PASS
5375.950119	-52.3	11.1	-41.2	PASS
5397.897862	-52.3	11.1	-41.2	PASS
5380.938242	-52.3	11.1	-41.2	PASS
5384.928741	-52.3	11.1	-41.2	PASS
5386.923990	-52.3	11.1	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5240.000000	PASS

Final measurements

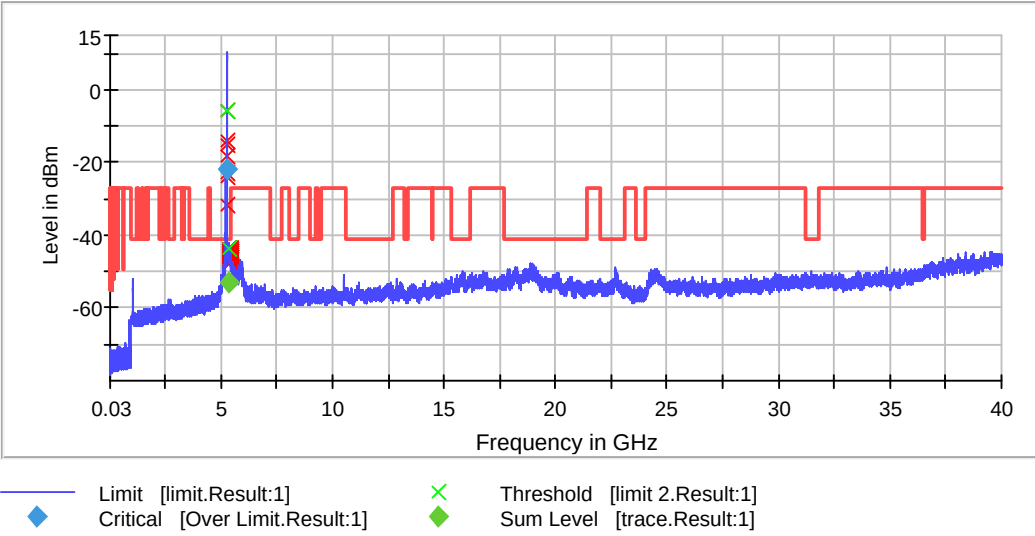
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5373.305785	-43.6	-53.2	-41.2	12.0	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5373.305785	-43.6	2.4	-41.2
5401.074380	-43.8	2.5	-41.2
5374.297521	-43.8	2.6	-41.2
5377.272727	-43.8	2.6	-41.2
5381.239669	-43.9	2.7	-41.2
5410.000000	-44.0	2.7	-41.2
5375.289256	-44.0	2.8	-41.2
5418.925620	-44.0	2.8	-41.2
5419.917355	-44.1	2.9	-41.2
5427.851240	-44.1	2.9	-41.2
5364.380165	-44.2	3.0	-41.2
5387.190083	-44.2	3.0	-41.2
5421.900826	-44.3	3.0	-41.2
5407.024793	-44.3	3.1	-41.2
5379.256198	-44.4	3.2	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant1 NHT40

Power Spectral Density (5190 MHz; 43.8806 MHz)

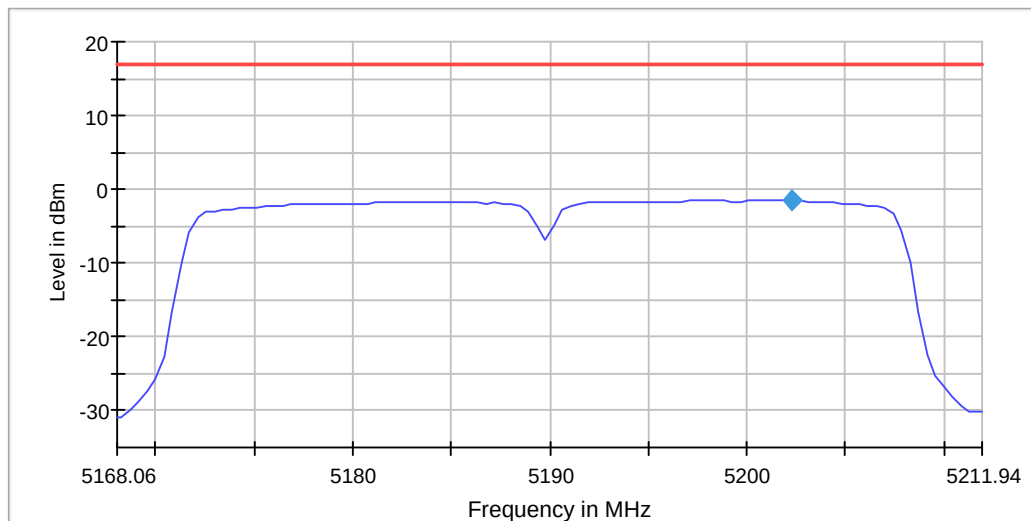
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5190.000000	5202.260756	-1.552	17.0	PASS

Ports

Port	Duty Cycle (%)
1	93.099



Measurement

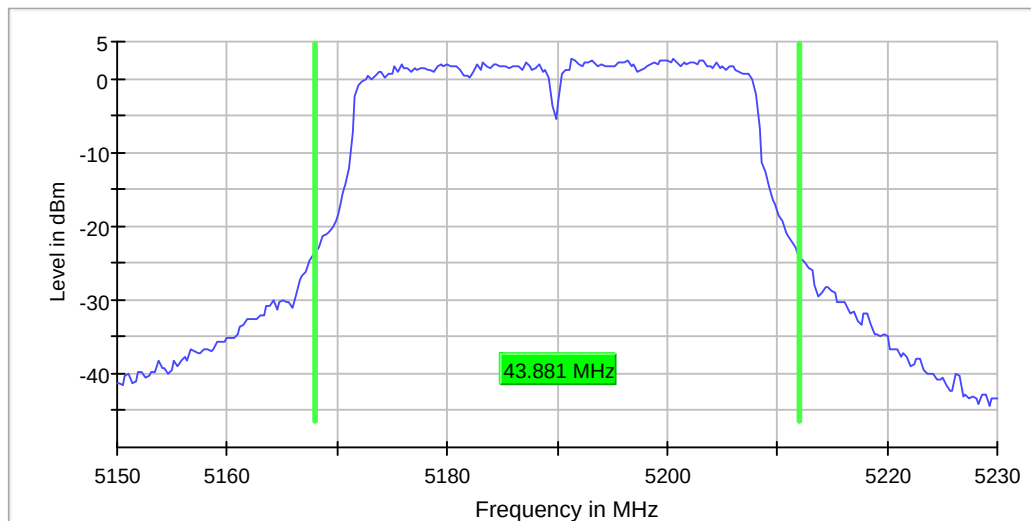
Setting	Instrument Value	Target Value
Start Frequency	5.16806 GHz	5.16806 GHz
Stop Frequency	5.21194 GHz	5.21194 GHz
Span	43.881 MHz	43.881 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 88
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5190.000000	43.880598	---	---	5168.059701	5211.940299	2.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.23000 GHz	5.23000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
Sweeptime	31.603 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	73 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

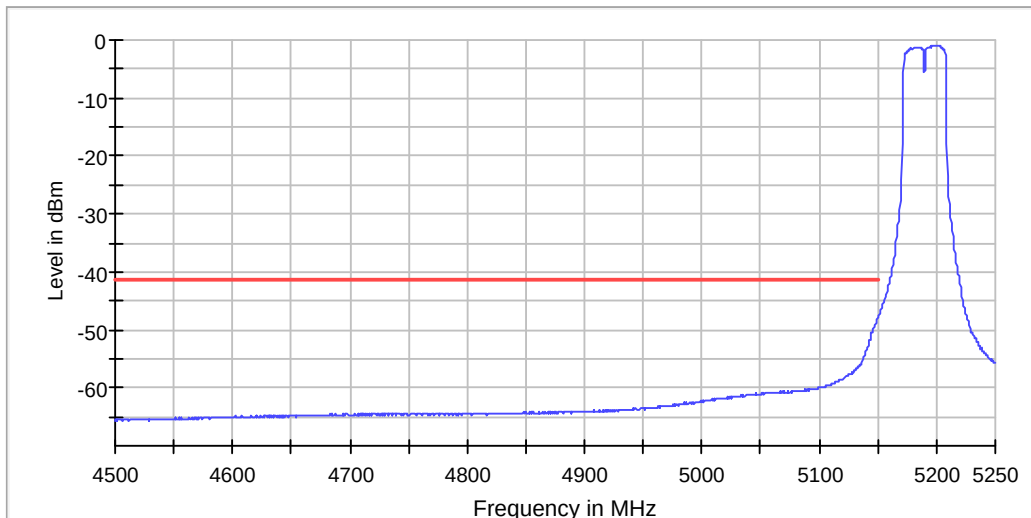
DUT Frequency (MHz)	Result
5190.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5198.507463	-1.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-48.3	7.1	-41.2	PASS
5148.750961	-48.6	7.4	-41.2	PASS
5148.251345	-48.8	7.6	-41.2	PASS
5147.751729	-49.1	7.8	-41.2	PASS
5147.252114	-49.2	8.0	-41.2	PASS
5146.752498	-49.6	8.3	-41.2	PASS
5146.252882	-49.9	8.7	-41.2	PASS
5145.753267	-50.2	8.9	-41.2	PASS
5145.253651	-50.4	9.1	-41.2	PASS
5144.754035	-50.6	9.4	-41.2	PASS
5144.254420	-51.0	9.7	-41.2	PASS
5143.754804	-51.2	10.0	-41.2	PASS
5143.255188	-51.7	10.4	-41.2	PASS
5142.755573	-51.9	10.6	-41.2	PASS
5142.255957	-52.3	11.1	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5190.000000	PASS

Final measurements

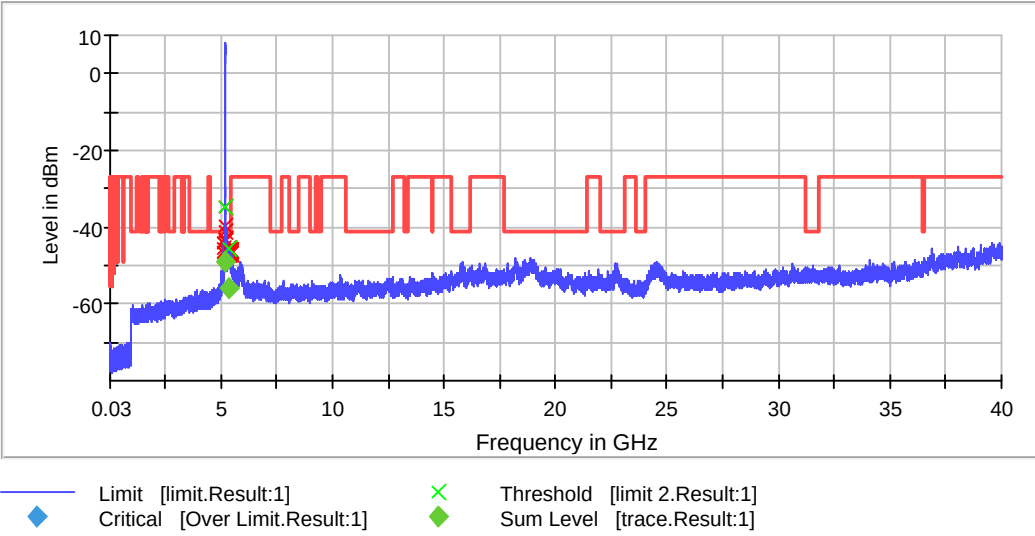
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-34.6	-49.0	-41.2	7.7	PASS
5385.206612	-45.4	-55.7	-41.2	14.5	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5148.500361	-34.6	-6.6	-41.2
5147.500602	-39.4	-1.8	-41.2
5144.501325	-41.1	-0.1	-41.2
5142.501807	-43.0	1.8	-41.2
5145.501084	-43.1	1.9	-41.2
5143.501566	-43.2	1.9	-41.2
5146.500843	-43.4	2.2	-41.2
5141.502048	-44.3	3.0	-41.2
5140.502289	-44.3	3.1	-41.2
5385.206612	-45.4	4.2	-41.2
5386.198347	-45.5	4.3	-41.2
5370.330579	-45.6	4.3	-41.2
5139.502530	-45.6	4.4	-41.2
5360.413223	-45.7	4.5	-41.2
5369.338843	-46.0	4.7	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5230 MHz; 42.9851 MHz)

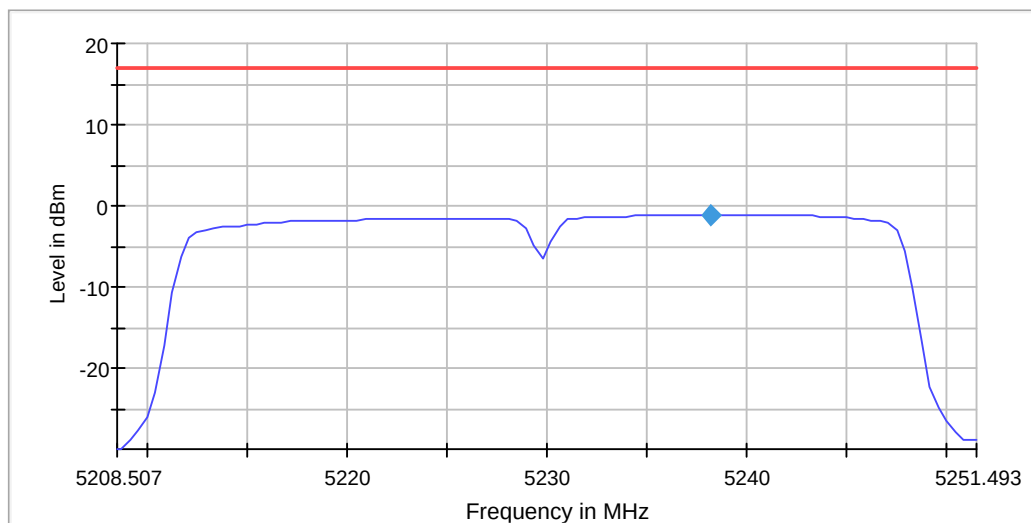
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5230.000000	5238.217740	-1.084	17.0	PASS

Ports

Port	Duty Cycle (%)
1	93.075



Measurement

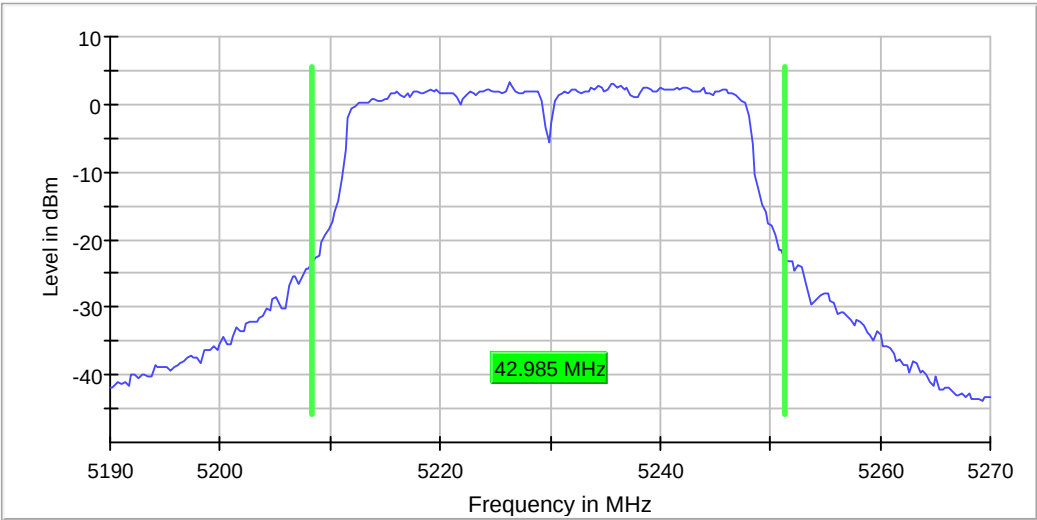
Setting	Instrument Value	Target Value
Start Frequency	5.20851 GHz	5.20851 GHz
Stop Frequency	5.25149 GHz	5.25149 GHz
Span	42.985 MHz	42.985 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 86
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5230.000000	42.985075	---	---	5208.358209	5251.343284	3.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	44 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

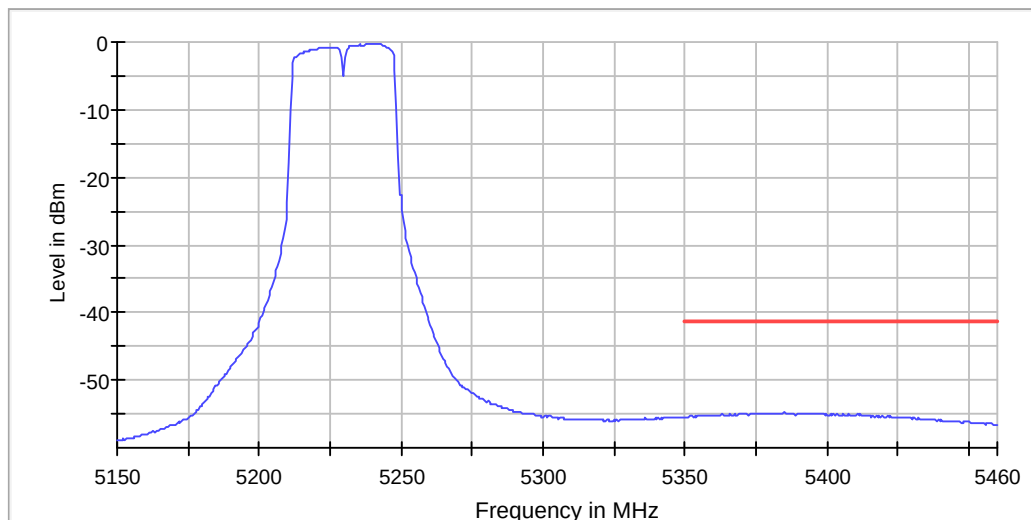
DUT Frequency (MHz)	Result
5230.000000	FAIL

Inband Peak

Frequency (MHz)	Level (dBm)
5242.786070	-0.2

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5384.928741	-54.8	13.6	-41.2	PASS
5379.441805	-54.9	13.6	-41.2	PASS
5391.912114	-54.9	13.6	-41.2	PASS
5371.460808	-54.9	13.7	-41.2	PASS
5380.439430	-54.9	13.7	-41.2	PASS
5395.902613	-54.9	13.7	-41.2	PASS
5375.950119	-54.9	13.7	-41.2	PASS
5387.422803	-54.9	13.7	-41.2	PASS
5377.945368	-54.9	13.7	-41.2	PASS
5381.437055	-54.9	13.7	-41.2	PASS
5378.444181	-54.9	13.7	-41.2	PASS
5390.415677	-54.9	13.7	-41.2	PASS
5391.413302	-55.0	13.7	-41.2	PASS
5389.418052	-55.0	13.7	-41.2	PASS
5386.923990	-55.0	13.7	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5230.000000	PASS

Final measurements

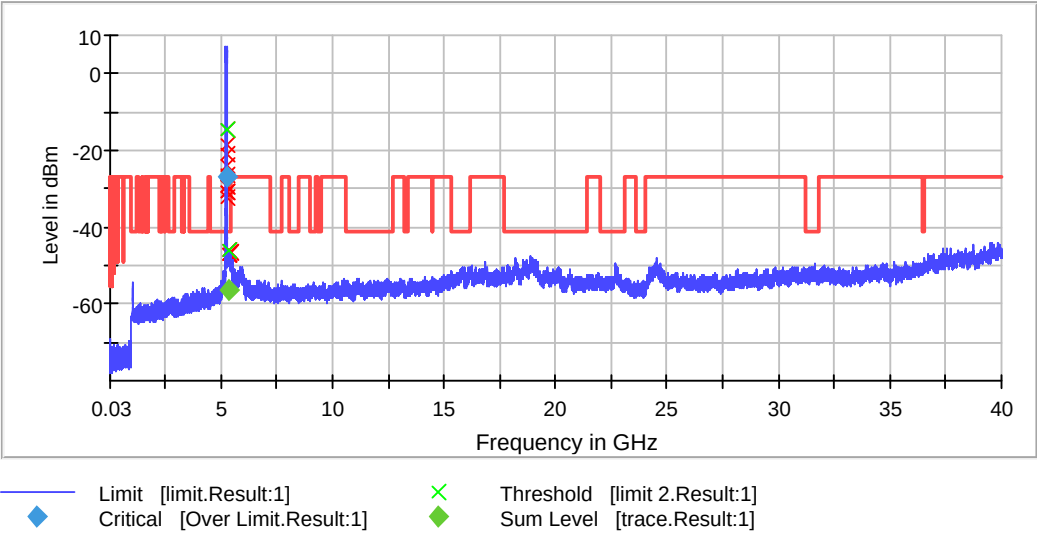
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5250.490196	-14.4	-26.7	---	---	PASS
5394.132231	-46.2	-56.2	-41.2	14.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5394.132231	-46.2	4.9	-41.2
5377.272727	-46.3	5.1	-41.2
5401.074380	-46.5	5.3	-41.2
5400.082645	-46.6	5.3	-41.2
5364.380165	-46.9	5.7	-41.2
5391.157025	-47.0	5.7	-41.2
5392.148760	-47.1	5.8	-41.2
5379.256198	-47.1	5.9	-41.2
5393.140496	-47.2	6.0	-41.2
5440.743802	-47.2	6.0	-41.2
5380.247934	-47.4	6.1	-41.2
18886.874375	-47.5	6.3	-41.2
5412.975207	-47.7	6.4	-41.2
5389.173554	-47.7	6.5	-41.2
5390.165289	-47.7	6.5	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant2 A mode

Power Spectral Density (5180 MHz; 20 MHz)

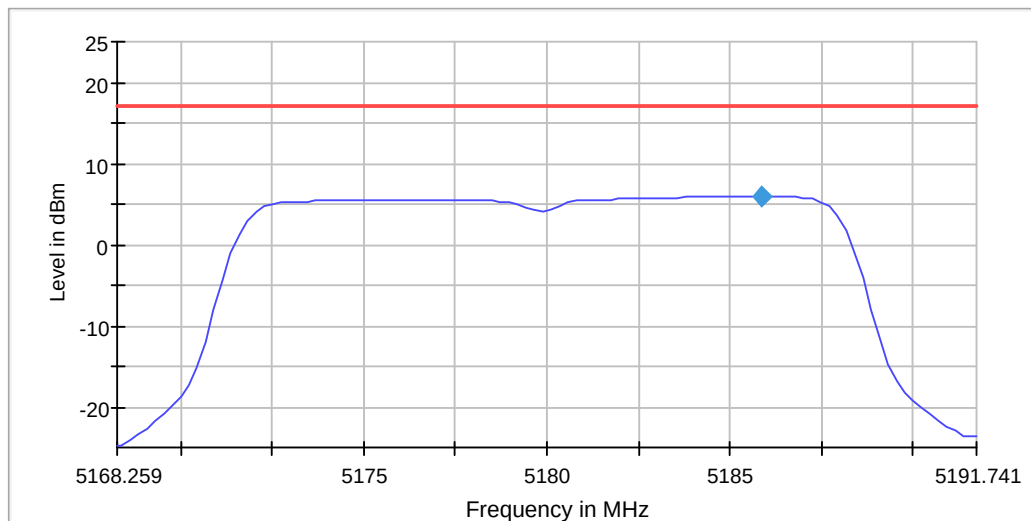
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5185.870650	5.976	17.0	PASS

Ports

Port	Duty Cycle (%)
1	96.227



Measurement

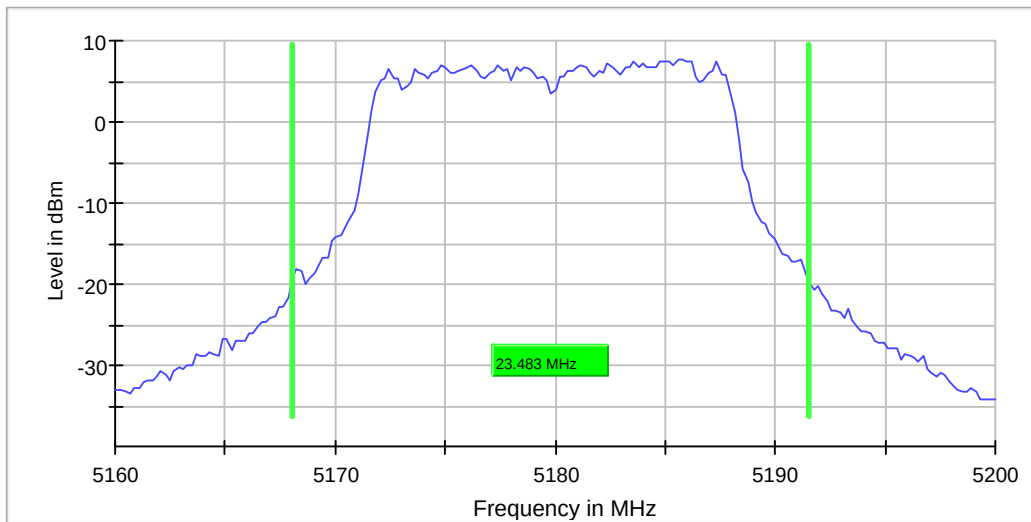
Setting	Instrument Value	Target Value
Start Frequency	5.16826 GHz	5.16826 GHz
Stop Frequency	5.19174 GHz	5.19174 GHz
Span	23.483 MHz	23.483 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 47
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5180.000000	23.482588	---	---	5168.059701	5191.542289	7.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	28 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

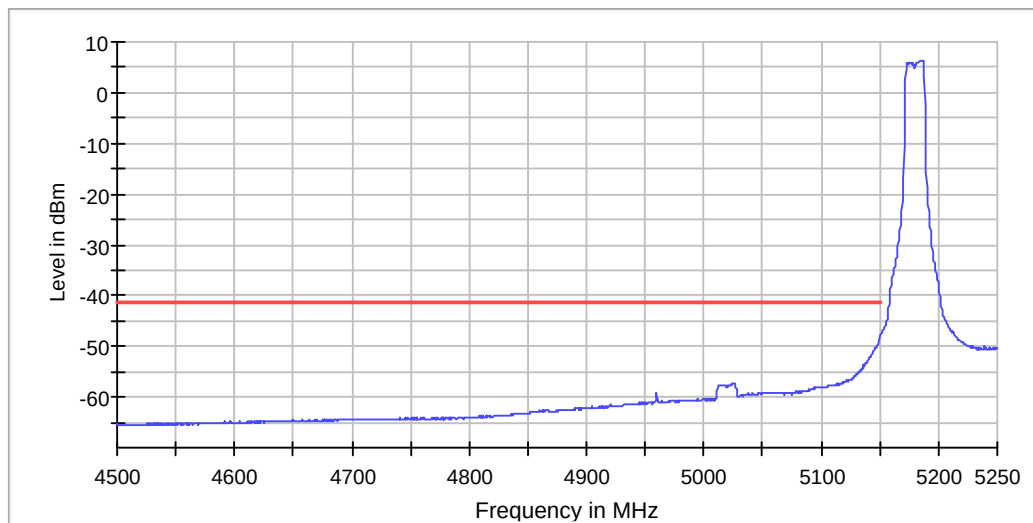
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5184.577114	6.4

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-49.1	7.9	-41.2	PASS
5148.750961	-49.2	8.0	-41.2	PASS
5148.251345	-49.6	8.3	-41.2	PASS
5147.751729	-49.8	8.6	-41.2	PASS
5147.252114	-50.1	8.9	-41.2	PASS
5146.752498	-50.2	8.9	-41.2	PASS
5146.252882	-50.3	9.1	-41.2	PASS
5145.753267	-50.6	9.4	-41.2	PASS
5145.253651	-50.8	9.5	-41.2	PASS
5144.754035	-51.0	9.8	-41.2	PASS
5144.254420	-51.2	10.0	-41.2	PASS
5143.754804	-51.2	10.0	-41.2	PASS
5143.255188	-51.5	10.3	-41.2	PASS
5142.255957	-51.8	10.5	-41.2	PASS
5142.755573	-51.8	10.6	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5180.000000	PASS

Final measurements

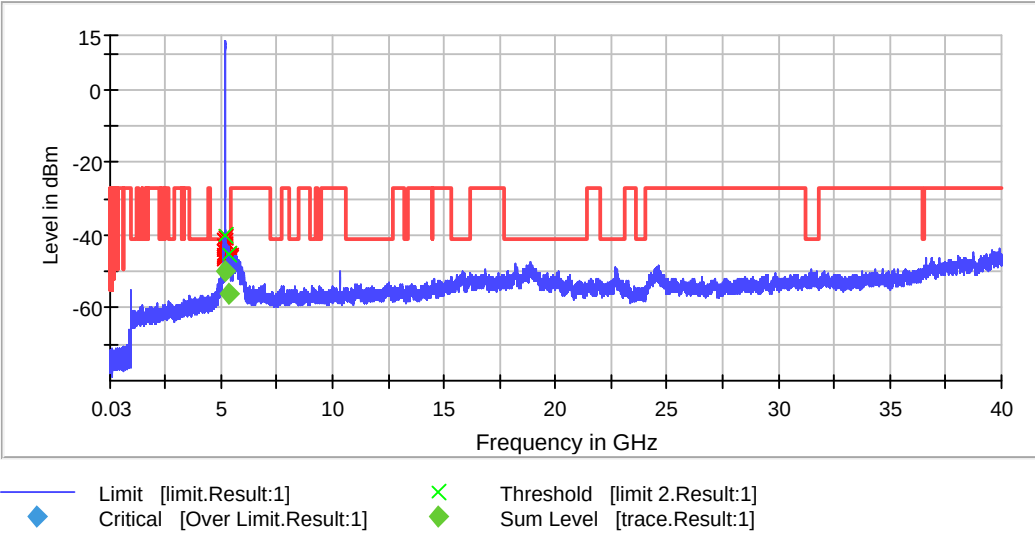
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-40.2	-50.1	-41.2	8.8	PASS
5382.231405	-45.3	-56.2	-41.2	15.0	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5148.500361	-40.2	-1.0	-41.2
5145.501084	-40.3	-0.9	-41.2
5144.501325	-40.5	-0.7	-41.2
5140.502289	-41.0	-0.2	-41.2
5141.502048	-41.3	0.0	-41.2
5147.500602	-41.7	0.5	-41.2
5138.502770	-42.7	1.5	-41.2
5146.500843	-42.7	1.5	-41.2
5142.501807	-43.3	2.1	-41.2
5143.501566	-43.4	2.2	-41.2
5136.503252	-44.3	3.0	-41.2
5135.503493	-44.3	3.0	-41.2
5137.503011	-45.3	4.1	-41.2
5382.231405	-45.3	4.1	-41.2
5133.503975	-45.8	4.5	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 22.6866 MHz)

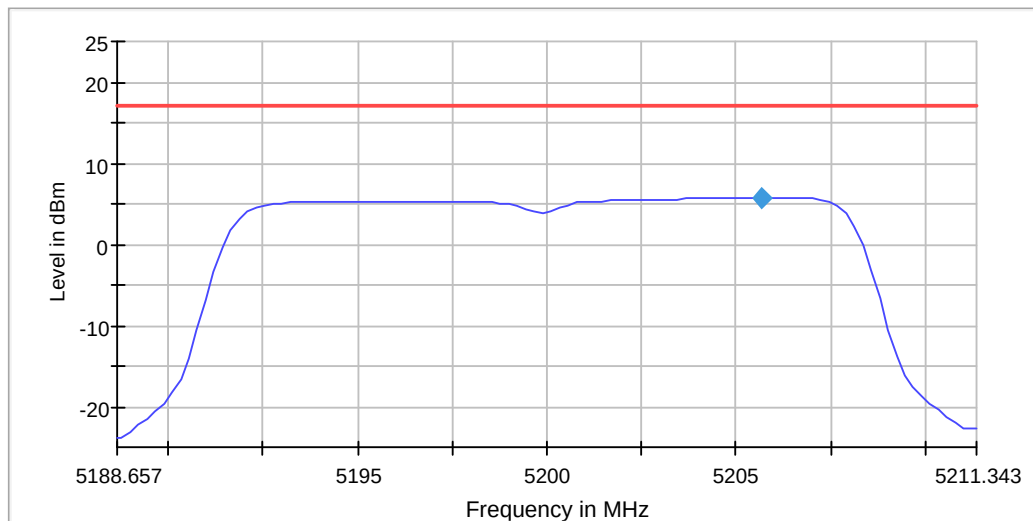
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5205.671675	5.808	17.0	PASS

Ports

Port	Duty Cycle (%)
1	96.238



Measurement

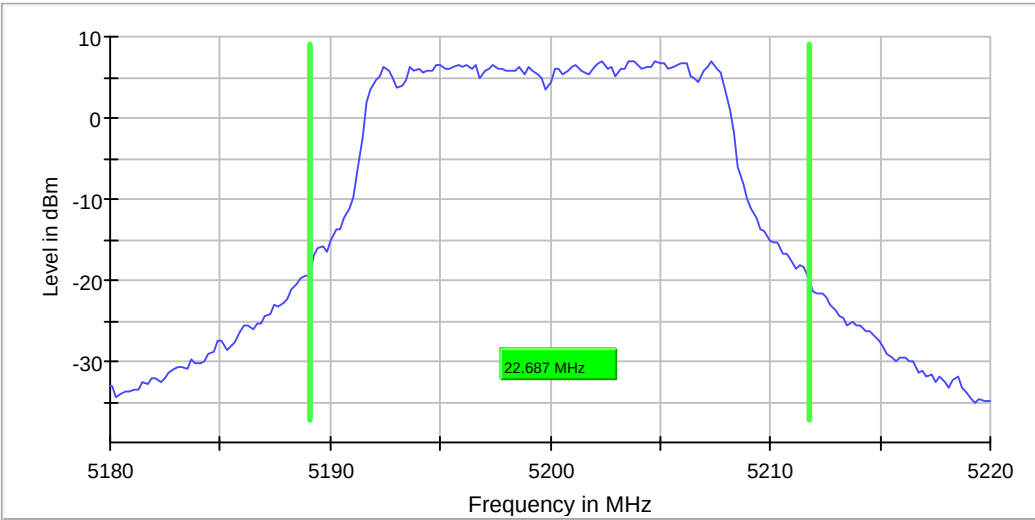
Setting	Instrument Value	Target Value
Start Frequency	5.18866 GHz	5.18866 GHz
Stop Frequency	5.21134 GHz	5.21134 GHz
Span	22.687 MHz	22.687 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5200.000000	22.686568	---	---	5189.054726	5211.741294	7.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	33 / max. 150	max. 150
Stable	5 / 5	5

Tx Spurious Emission (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5200.000000	PASS

Final measurements

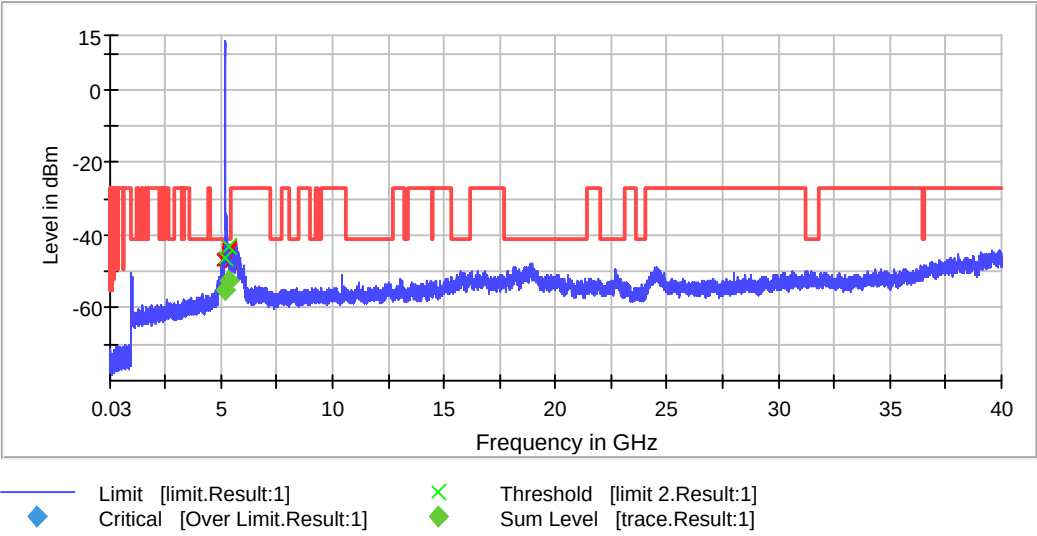
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-46.0	-55.1	-41.2	13.9	PASS
5364.380165	-43.0	-52.5	-41.2	11.3	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5364.380165	-43.0	1.7	-41.2
5354.462810	-43.4	2.2	-41.2
5363.388430	-44.0	2.8	-41.2
5365.371901	-44.4	3.2	-41.2
5362.396694	-44.5	3.3	-41.2
5355.454545	-44.5	3.3	-41.2
5356.446281	-44.6	3.4	-41.2
5353.471074	-44.7	3.4	-41.2
5357.438017	-44.7	3.4	-41.2
5350.495868	-44.7	3.5	-41.2
5350.000000	-44.7	3.5	-41.2
5361.404959	-44.8	3.5	-41.2
5377.272727	-44.9	3.6	-41.2
5367.355372	-44.9	3.7	-41.2
5358.429752	-45.1	3.9	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 22.6866 MHz)

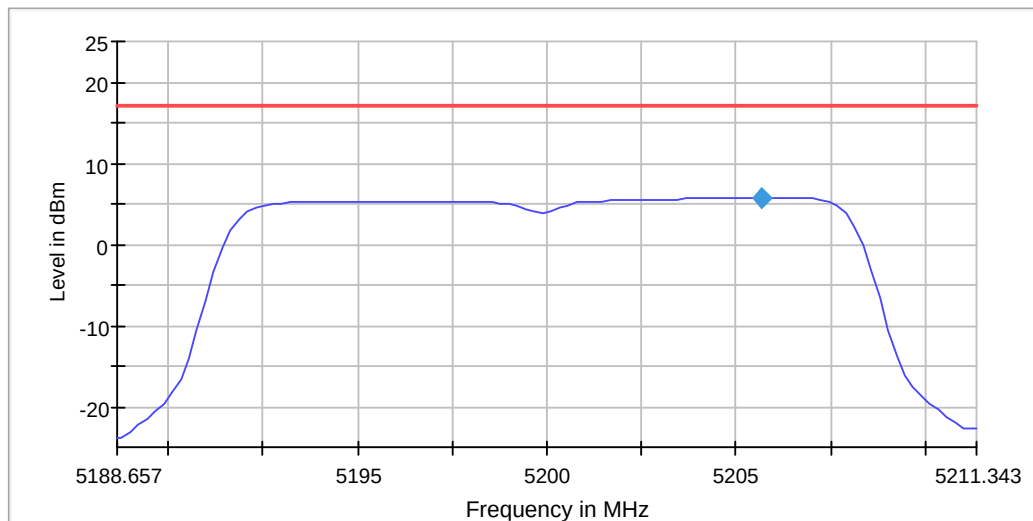
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5205.671675	5.808	17.0	PASS

Ports

Port	Duty Cycle (%)
1	96.238



Measurement

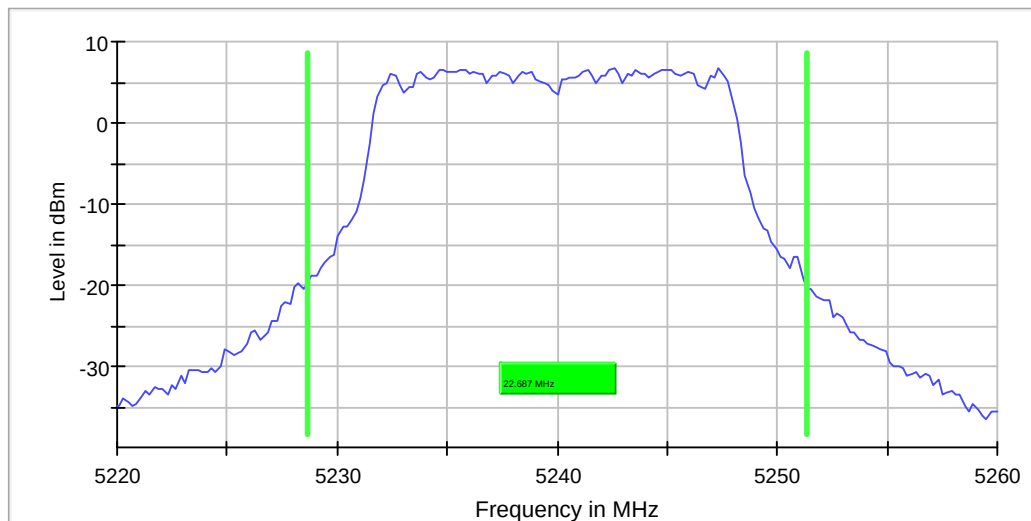
Setting	Instrument Value	Target Value
Start Frequency	5.18866 GHz	5.18866 GHz
Stop Frequency	5.21134 GHz	5.21134 GHz
Span	22.687 MHz	22.687 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5240.000000	22.686568	---	---	5228.656716	5251.343284	6.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	51 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

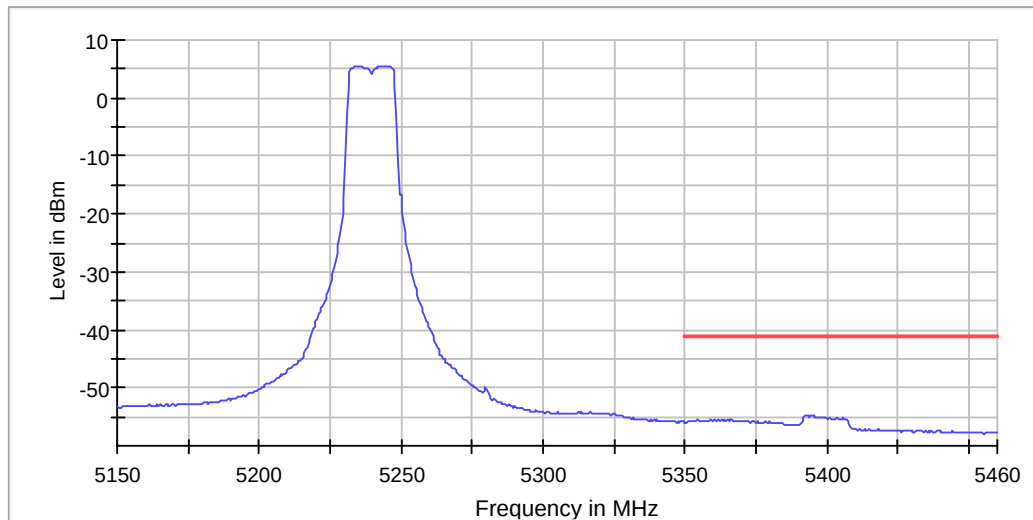
DUT Frequency (MHz)	Result
5240.000000	FAIL

Inband Peak

Frequency (MHz)	Level (dBm)
5245.273632	5.6

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5393.408551	-54.7	13.5	-41.2	PASS
5392.909739	-54.9	13.6	-41.2	PASS
5392.410926	-54.9	13.7	-41.2	PASS
5394.406176	-54.9	13.7	-41.2	PASS
5394.904988	-54.9	13.7	-41.2	PASS
5395.403800	-54.9	13.7	-41.2	PASS
5395.902613	-55.0	13.7	-41.2	PASS
5393.907363	-55.0	13.7	-41.2	PASS
5398.895487	-55.1	13.9	-41.2	PASS
5398.396675	-55.1	13.9	-41.2	PASS
5396.401425	-55.1	13.9	-41.2	PASS
5397.897862	-55.1	13.9	-41.2	PASS
5391.912114	-55.1	13.9	-41.2	PASS
5396.900238	-55.2	13.9	-41.2	PASS
5399.893112	-55.2	14.0	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5240.000000	FAIL

Final measurements

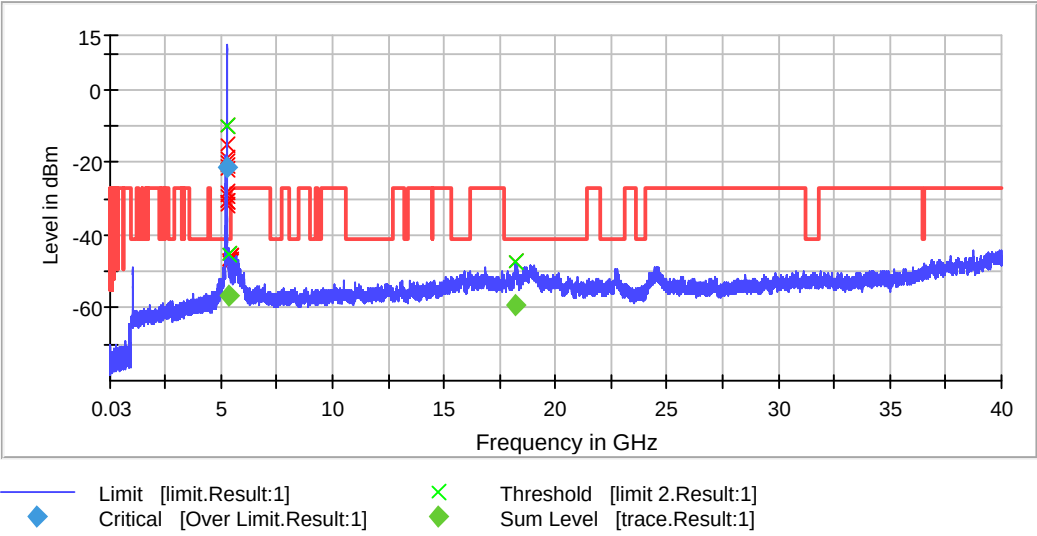
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5250.490196	-9.7	-21.3	---	---	FAIL
5350.000000	-45.5	-56.6	-41.2	15.4	PASS
18204.910268	-47.2	-59.3	-41.2	18.1	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5350.000000	-45.5	4.2	-41.2
5399.090909	-45.7	4.5	-41.2
5400.082645	-45.8	4.6	-41.2
5397.107438	-46.9	5.6	-41.2
5371.322314	-47.0	5.8	-41.2
5370.330579	-47.0	5.8	-41.2
5375.289256	-47.1	5.9	-41.2
18204.910268	-47.2	6.0	-41.2
5402.066116	-47.2	6.0	-41.2
5396.115702	-47.3	6.1	-41.2
5373.305785	-47.4	6.1	-41.2
5394.132231	-47.4	6.1	-41.2
5392.148760	-47.5	6.2	-41.2
5393.140496	-47.5	6.3	-41.2
5379.256198	-47.5	6.3	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant2 AC mode 20

Power Spectral Density (5180 MHz; 23.4826 MHz)

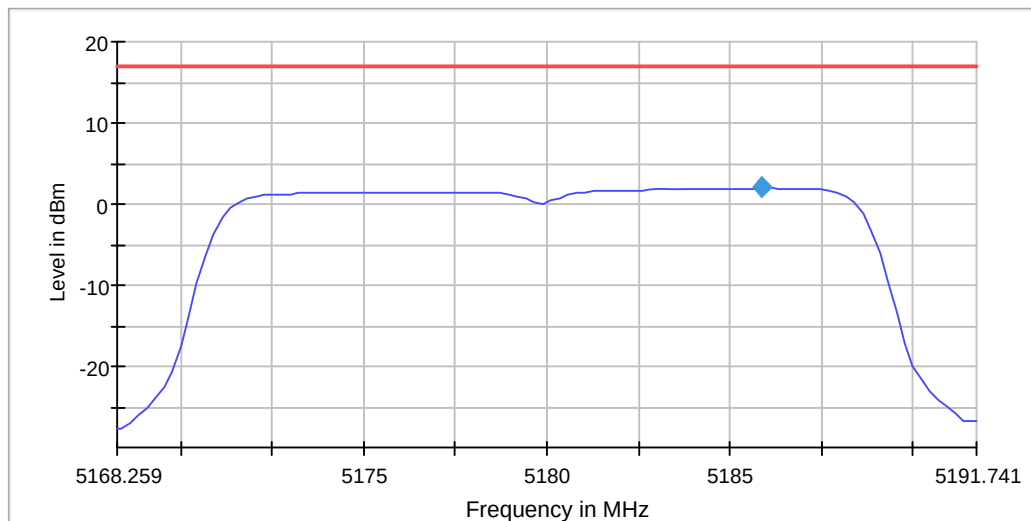
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5185.870650	2.029	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.318



Measurement

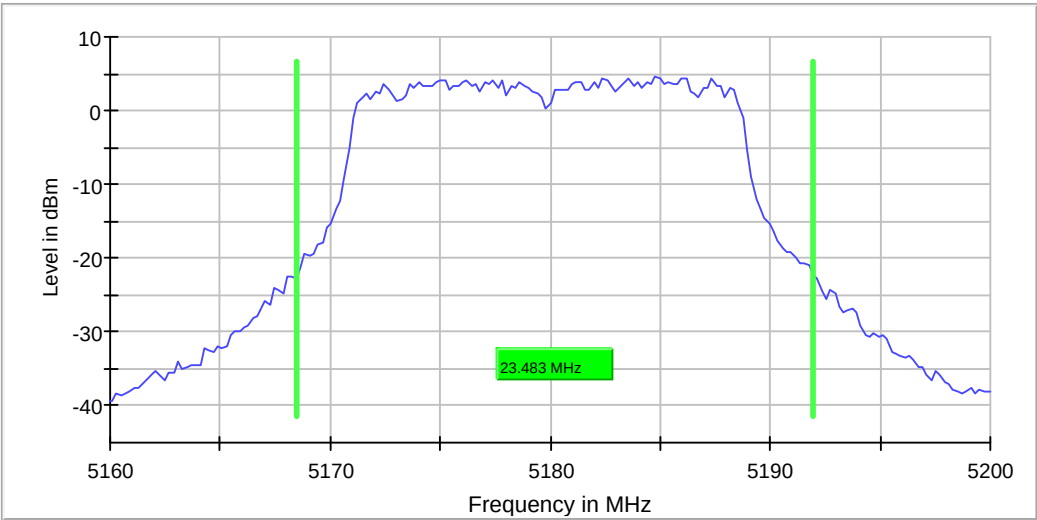
Setting	Instrument Value	Target Value
Start Frequency	5.16826 GHz	5.16826 GHz
Stop Frequency	5.19174 GHz	5.19174 GHz
Span	23.483 MHz	23.483 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 47
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5180.000000	23.482588	---	---	5168.457711	5191.940299	4.6	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	39 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

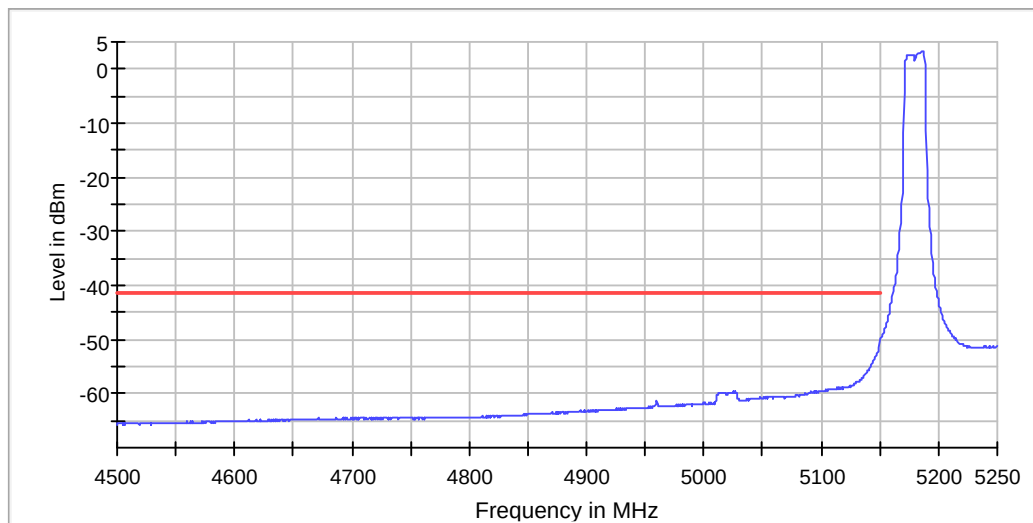
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5186.069652	3.2

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-51.5	10.2	-41.2	PASS
5148.251345	-52.1	10.9	-41.2	PASS
5148.750961	-52.2	10.9	-41.2	PASS
5147.252114	-52.5	11.2	-41.2	PASS
5147.751729	-52.5	11.3	-41.2	PASS
5146.752498	-52.8	11.6	-41.2	PASS
5146.252882	-53.3	12.0	-41.2	PASS
5145.753267	-53.4	12.2	-41.2	PASS
5145.253651	-53.8	12.5	-41.2	PASS
5144.754035	-53.8	12.6	-41.2	PASS
5144.254420	-54.1	12.9	-41.2	PASS
5143.754804	-54.3	13.1	-41.2	PASS
5143.255188	-54.4	13.2	-41.2	PASS
5142.755573	-54.7	13.5	-41.2	PASS
5141.756341	-55.0	13.8	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5180.000000	PASS

Final measurements

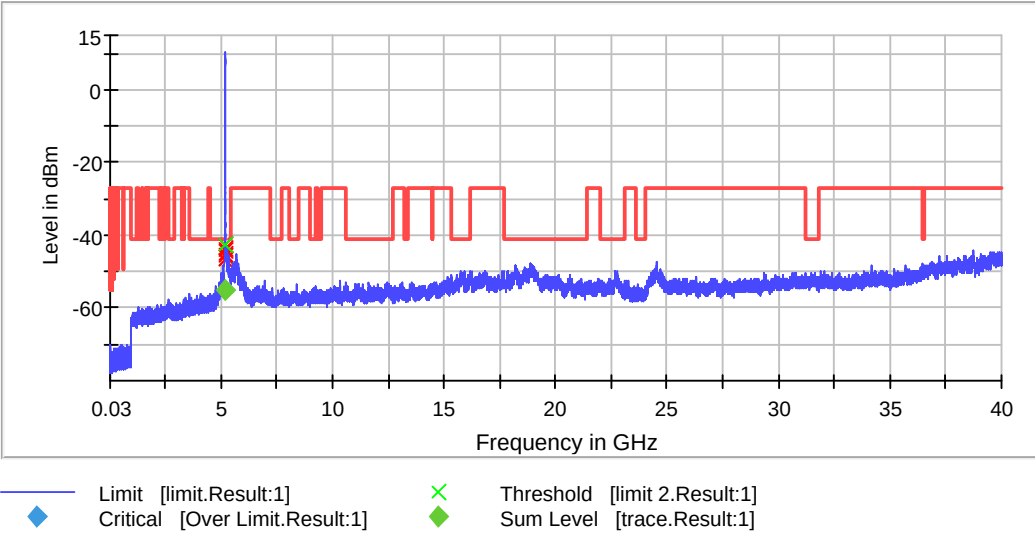
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5144.501325	-42.7	-55.2	-41.2	13.9	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5144.501325	-42.7	1.5	-41.2
5147.500602	-43.6	2.4	-41.2
5148.500361	-44.4	3.1	-41.2
5145.501084	-45.3	4.1	-41.2
5146.500843	-45.6	4.4	-41.2
5142.501807	-46.7	5.5	-41.2
5143.501566	-46.9	5.7	-41.2
18837.876954	-47.8	6.6	-41.2
5388.181818	-47.8	6.6	-41.2
18885.874428	-47.9	6.7	-41.2
36461.752732	-48.0	6.8	-41.2
18177.911689	-48.3	7.1	-41.2
18884.874480	-48.4	7.1	-41.2
5384.214876	-48.4	7.2	-41.2
18222.909321	-48.4	7.2	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 23.0846 MHz)

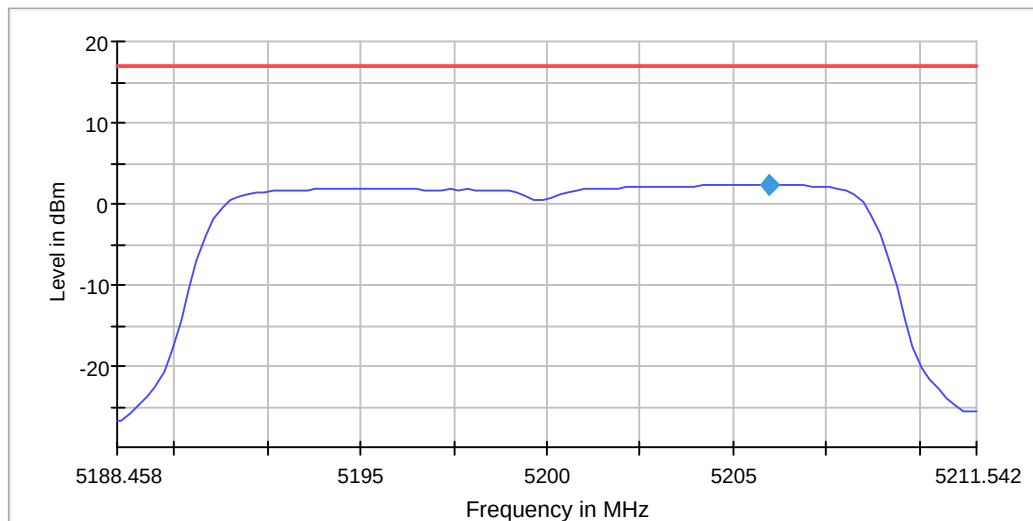
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5205.997444	2.349	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.303



Measurement

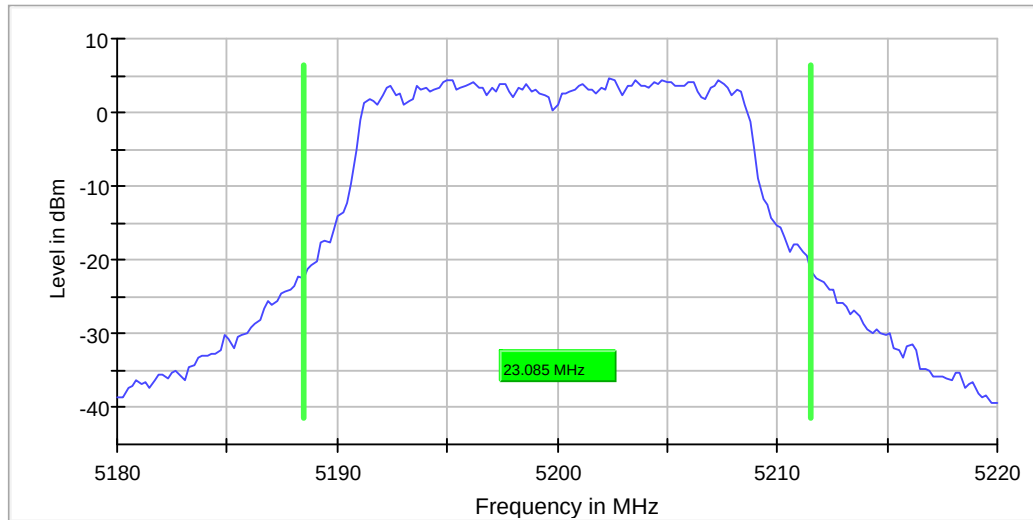
Setting	Instrument Value	Target Value
Start Frequency	5.18846 GHz	5.18846 GHz
Stop Frequency	5.21154 GHz	5.21154 GHz
Span	23.085 MHz	23.085 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5200.000000	23.084578	---	---	5188.457711	5211.542289	4.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	49 / max. 150	max. 150
Stable	5 / 5	5

Tx Spurious Emission (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5200.000000	PASS

Final measurements

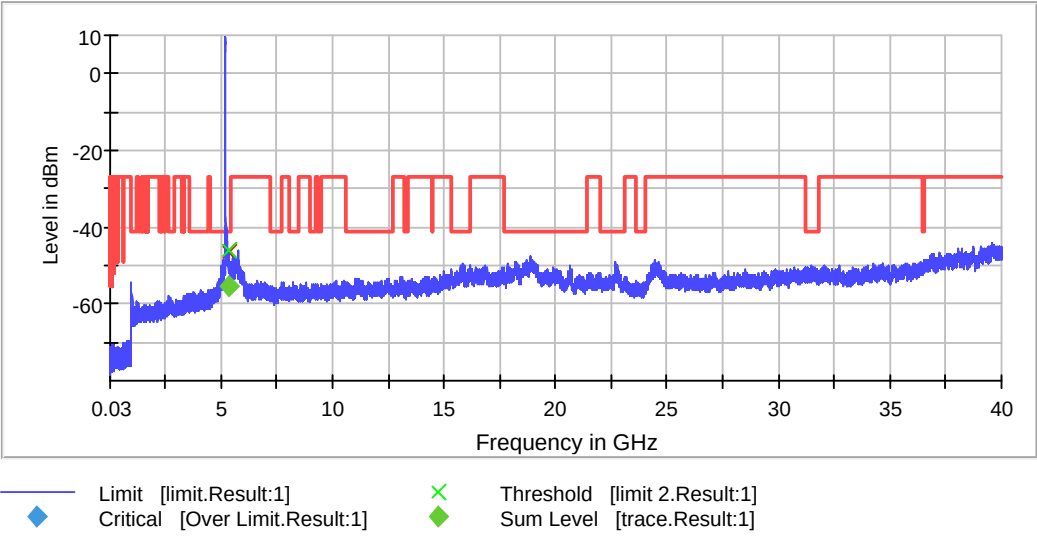
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5353.471074	-46.1	-55.5	-41.2	14.3	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5353.471074	-46.1	4.8	-41.2
5352.479339	-46.6	5.4	-41.2
5368.347107	-47.3	6.0	-41.2
5369.338843	-47.5	6.3	-41.2
18839.876849	-47.6	6.4	-41.2
5365.371901	-47.8	6.6	-41.2
5367.355372	-47.9	6.7	-41.2
5378.264463	-48.0	6.7	-41.2
5366.363636	-48.0	6.8	-41.2
18890.874165	-48.1	6.9	-41.2
5361.404959	-48.1	6.9	-41.2
18867.875375	-48.1	6.9	-41.2
18911.873059	-48.3	7.0	-41.2
18907.873270	-48.3	7.1	-41.2
18852.876164	-48.4	7.1	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5240 MHz; 23.0846 MHz)

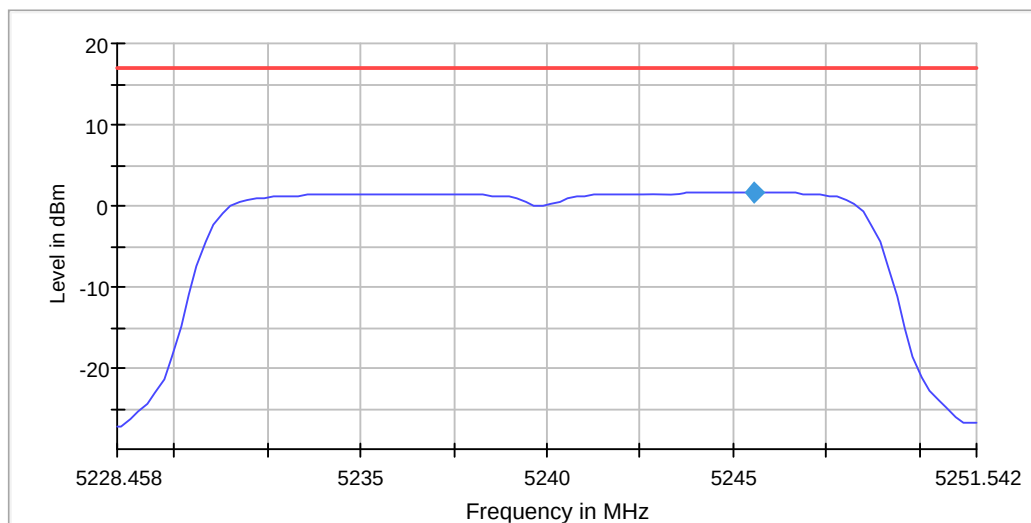
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5245.544806	1.640	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.297



Measurement

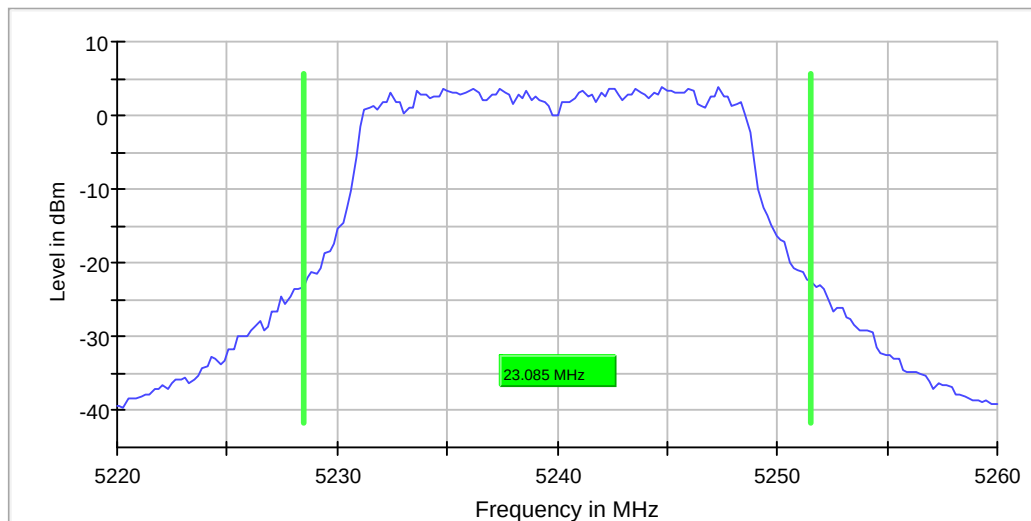
Setting	Instrument Value	Target Value
Start Frequency	5.22846 GHz	5.22846 GHz
Stop Frequency	5.25154 GHz	5.25154 GHz
Span	23.085 MHz	23.085 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 46
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5240.000000	23.084578	---	---	5228.457711	5251.542289	3.8	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	38 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

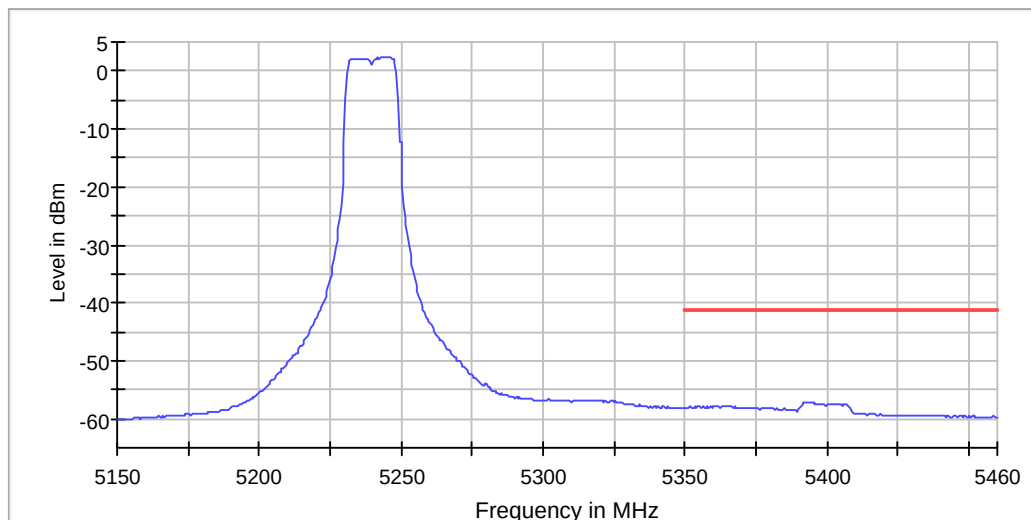
DUT Frequency (MHz)	Result
5240.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5245.273632	2.5

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5392.909739	-57.2	16.0	-41.2	PASS
5392.410926	-57.3	16.0	-41.2	PASS
5393.907363	-57.3	16.0	-41.2	PASS
5394.406176	-57.3	16.1	-41.2	PASS
5391.912114	-57.3	16.1	-41.2	PASS
5394.904988	-57.3	16.1	-41.2	PASS
5395.403800	-57.3	16.1	-41.2	PASS
5393.408551	-57.3	16.1	-41.2	PASS
5396.401425	-57.4	16.2	-41.2	PASS
5395.902613	-57.4	16.2	-41.2	PASS
5397.399050	-57.4	16.2	-41.2	PASS
5404.881235	-57.5	16.2	-41.2	PASS
5396.900238	-57.5	16.2	-41.2	PASS
5400.890736	-57.5	16.2	-41.2	PASS
5398.396675	-57.5	16.2	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

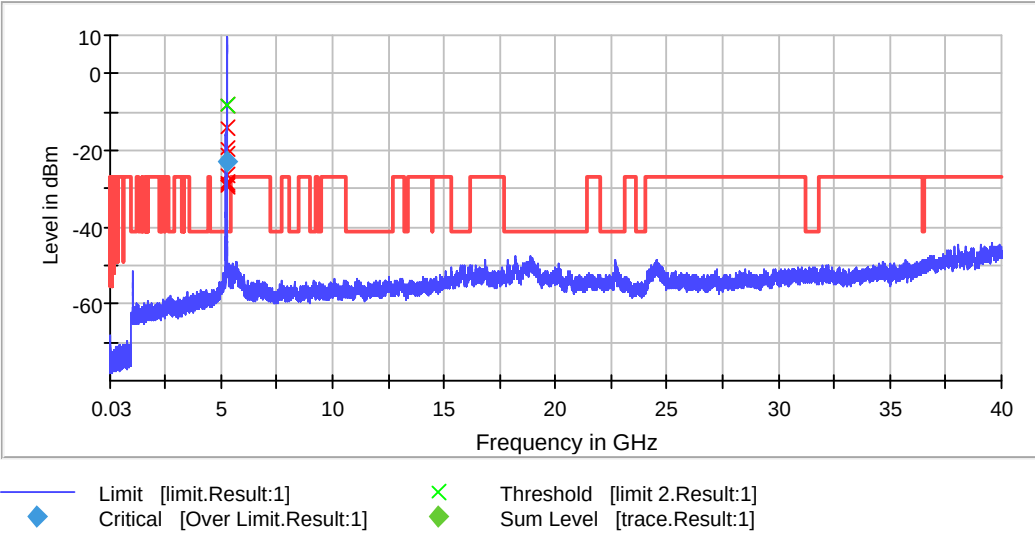
DUT Frequency (MHz)	Result
5240.000000	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
18886.874375	-47.7	6.5	-41.2
18227.909057	-47.7	6.5	-41.2
18875.874954	-47.8	6.6	-41.2
18878.874796	-47.8	6.6	-41.2
18877.874849	-47.9	6.6	-41.2
18939.871586	-48.0	6.8	-41.2
22697.673807	-48.3	7.1	-41.2
18201.910426	-48.4	7.2	-41.2
18922.872480	-48.5	7.3	-41.2
36462.752661	-48.6	7.3	-41.2
17858.928477	-48.6	7.3	-41.2
18915.872849	-48.6	7.4	-41.2
18842.876691	-48.7	7.5	-41.2
18864.875533	-48.8	7.6	-41.2
18176.911741	-48.8	7.6	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant2 AC mode 40

Power Spectral Density (5190 MHz; 43.5821 MHz)

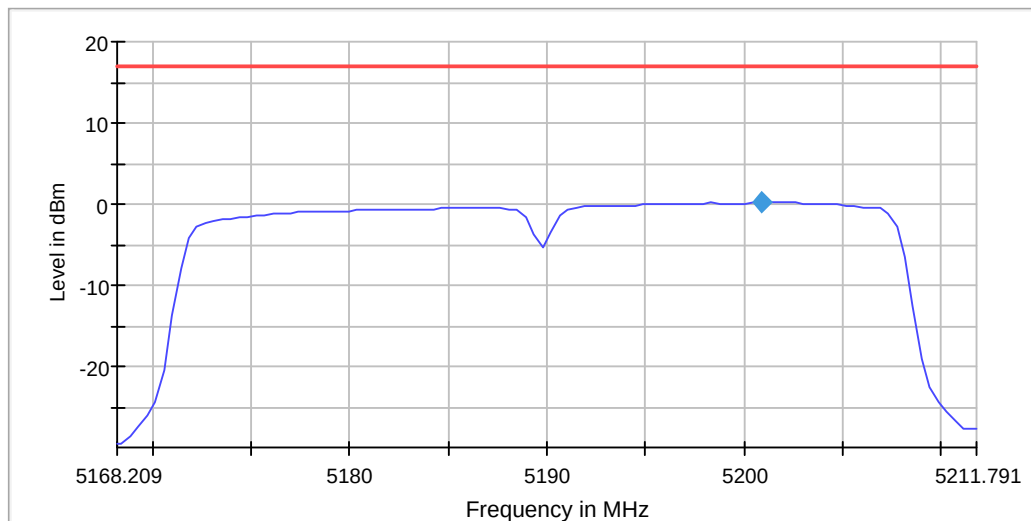
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5190.000000	5200.895525	0.170	17.0	PASS

Ports

Port	Duty Cycle (%)
1	92.909



Measurement

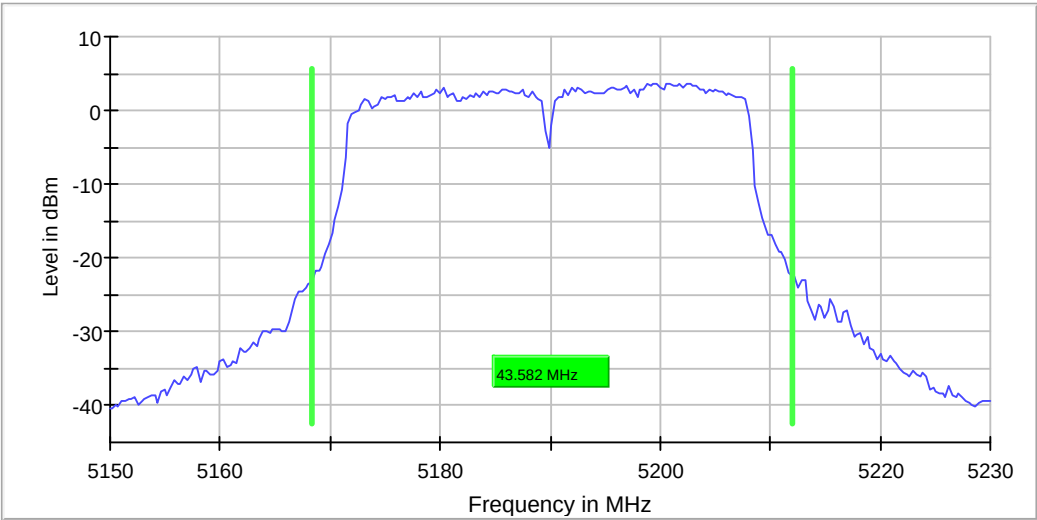
Setting	Instrument Value	Target Value
Start Frequency	5.16821 GHz	5.16821 GHz
Stop Frequency	5.21179 GHz	5.21179 GHz
Span	43.582 MHz	43.582 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 87
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5190.000000	43.582090	---	---	5168.358209	5211.940299	3.7	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.23000 GHz	5.23000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	54 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

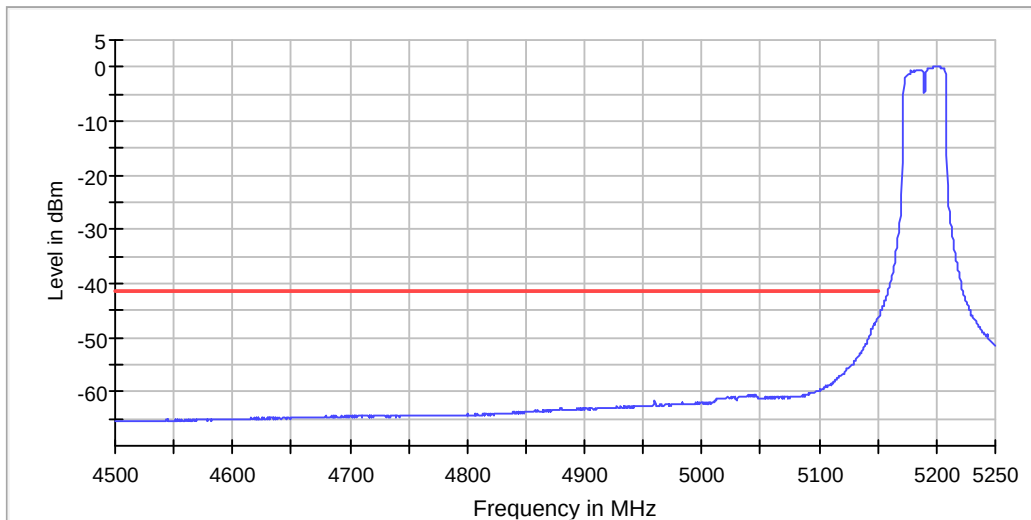
DUT Frequency (MHz)	Result
5190.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5201.990050	0.2

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-46.6	5.4	-41.2	PASS
5148.750961	-46.8	5.6	-41.2	PASS
5148.251345	-47.1	5.9	-41.2	PASS
5147.751729	-47.3	6.1	-41.2	PASS
5146.752498	-47.5	6.2	-41.2	PASS
5147.252114	-47.5	6.3	-41.2	PASS
5146.252882	-48.0	6.8	-41.2	PASS
5145.753267	-48.1	6.9	-41.2	PASS
5145.253651	-48.5	7.2	-41.2	PASS
5144.754035	-48.5	7.3	-41.2	PASS
5144.254420	-48.8	7.6	-41.2	PASS
5143.754804	-49.2	8.0	-41.2	PASS
5143.255188	-49.5	8.2	-41.2	PASS
5142.755573	-49.7	8.5	-41.2	PASS
5142.255957	-49.9	8.7	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5190.000000	PASS

Final measurements

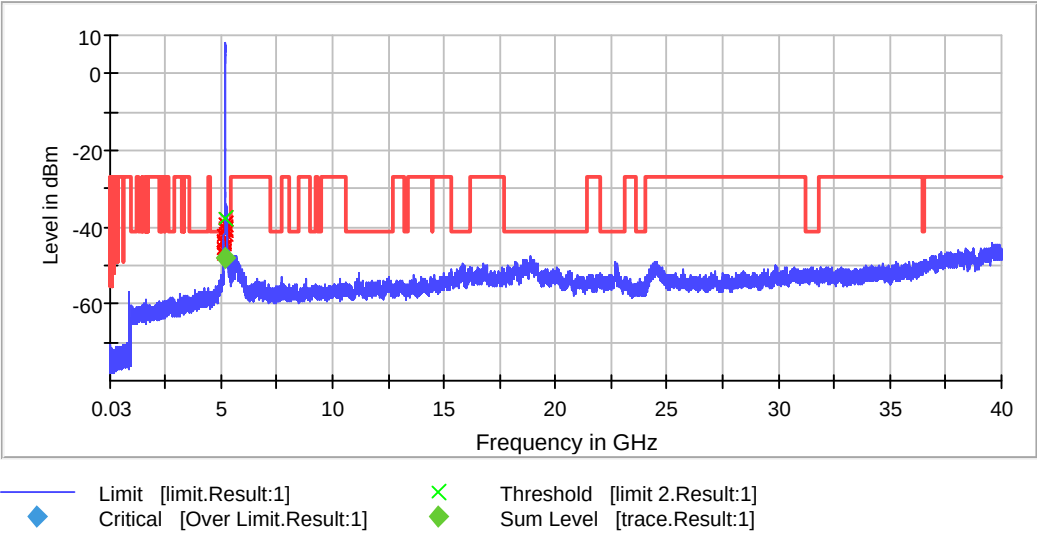
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-37.7	-47.9	-41.2	6.6	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5148.500361	-37.7	-3.6	-41.2
5147.500602	-39.0	-2.2	-41.2
5146.500843	-39.1	-2.1	-41.2
5145.501084	-40.1	-1.1	-41.2
5143.501566	-40.6	-0.7	-41.2
5144.501325	-40.6	-0.6	-41.2
5142.501807	-41.8	0.5	-41.2
5141.502048	-41.9	0.7	-41.2
5140.502289	-42.0	0.8	-41.2
5133.503975	-43.4	2.2	-41.2
5132.504216	-43.5	2.2	-41.2
5139.502530	-43.6	2.3	-41.2
5138.502770	-43.7	2.5	-41.2
5136.503252	-44.2	2.9	-41.2
5137.503011	-44.2	3.0	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5230 MHz; 44.4776 MHz)

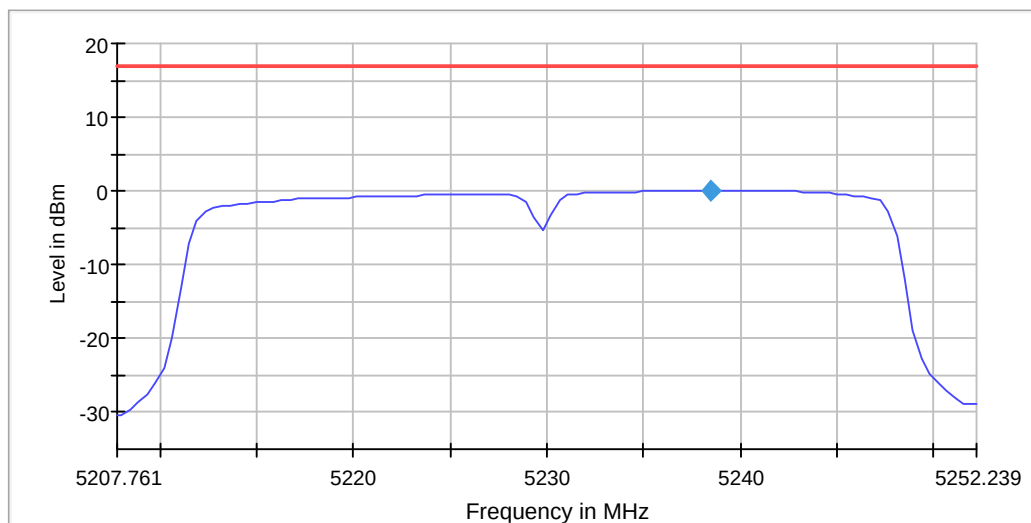
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5230.000000	5238.503071	0.086	17.0	PASS

Ports

Port	Duty Cycle (%)
1	92.862



Measurement

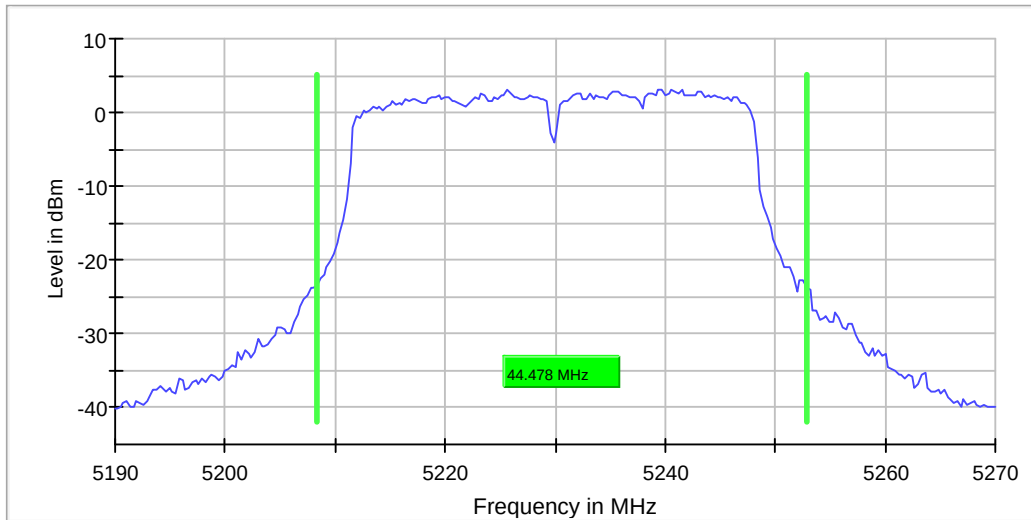
Setting	Instrument Value	Target Value
Start Frequency	5.20776 GHz	5.20776 GHz
Stop Frequency	5.25224 GHz	5.25224 GHz
Span	44.478 MHz	44.478 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 89
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5230.000000	44.477612	---	---	5208.358209	5252.835821	3.1	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	47 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

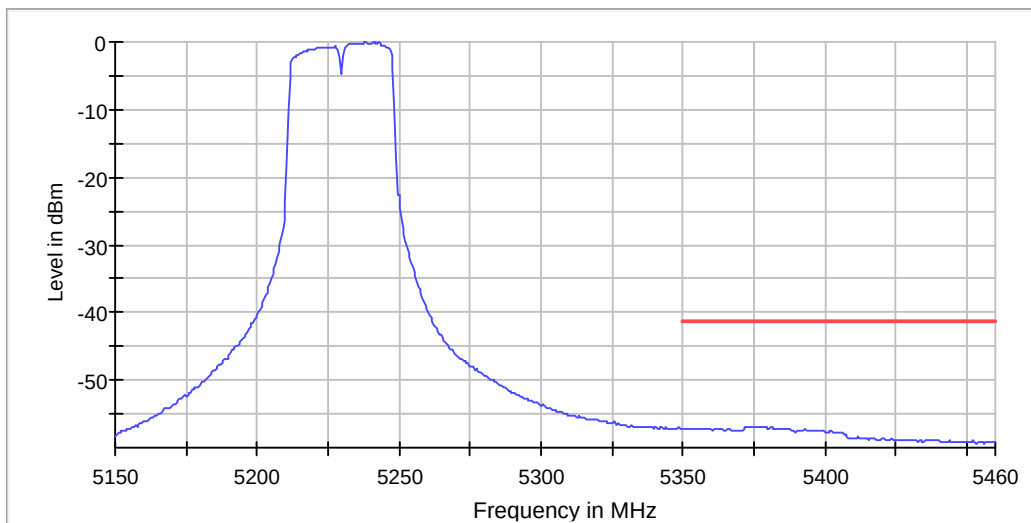
DUT Frequency (MHz)	Result
5230.000000	FAIL

Inband Peak

Frequency (MHz)	Level (dBm)
5238.308458	0.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5373.954869	-56.9	15.6	-41.2	PASS
5374.453682	-56.9	15.7	-41.2	PASS
5375.950119	-56.9	15.7	-41.2	PASS
5371.959620	-56.9	15.7	-41.2	PASS
5372.957245	-56.9	15.7	-41.2	PASS
5374.952494	-56.9	15.7	-41.2	PASS
5372.458432	-56.9	15.7	-41.2	PASS
5379.441805	-57.0	15.7	-41.2	PASS
5373.456057	-57.0	15.7	-41.2	PASS
5376.947743	-57.0	15.7	-41.2	PASS
5375.451306	-57.0	15.7	-41.2	PASS
5378.444181	-57.0	15.7	-41.2	PASS
5376.448931	-57.0	15.7	-41.2	PASS
5377.945368	-57.0	15.8	-41.2	PASS
5381.437055	-57.0	15.8	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

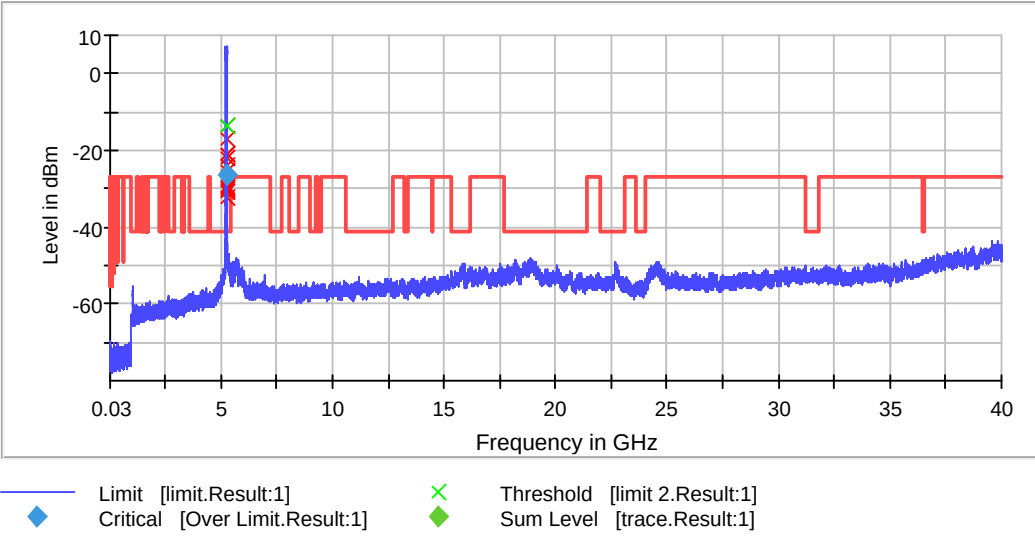
DUT Frequency (MHz)	Result
5230.000000	FAIL

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
18888.874270	-48.1	6.9	-41.2
5378.264463	-48.4	7.1	-41.2
18915.872849	-48.4	7.1	-41.2
18882.874586	-48.5	7.3	-41.2
18932.871954	-48.5	7.3	-41.2
18839.876849	-48.5	7.3	-41.2
18793.879270	-48.6	7.3	-41.2
18166.912268	-48.6	7.4	-41.2
18176.911741	-48.7	7.4	-41.2
5373.305785	-48.7	7.5	-41.2
36442.754089	-48.7	7.5	-41.2
18914.872901	-48.7	7.5	-41.2
5374.297521	-48.8	7.5	-41.2
18237.908531	-48.8	7.6	-41.2
18885.874428	-48.8	7.6	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant2 AC mode 80

Power Spectral Density (5210 MHz; 86.4596 MHz)

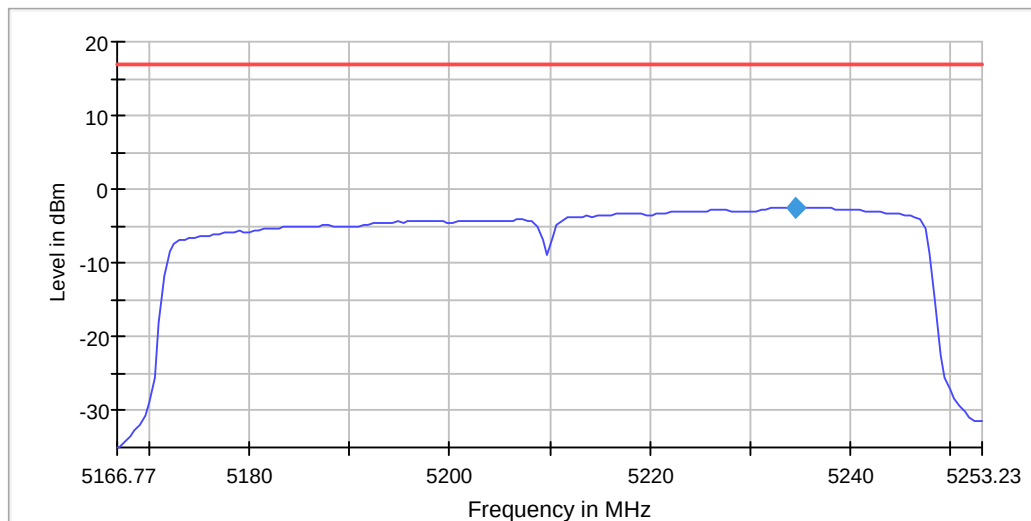
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5210.000000	5234.596266	-2.471	17.0	PASS

Ports

Port	Duty Cycle (%)
1	86.014



Measurement

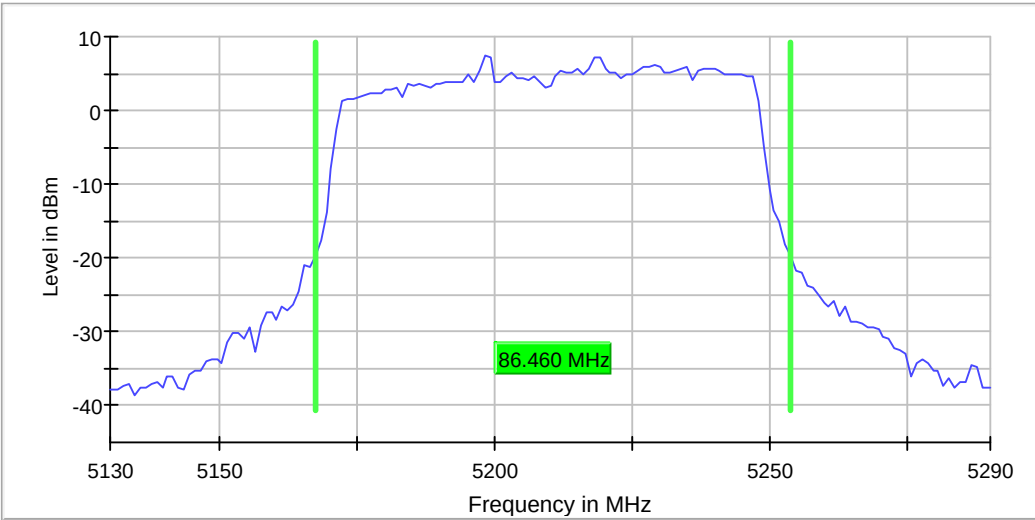
Setting	Instrument Value	Target Value
Start Frequency	5.16677 GHz	5.16677 GHz
Stop Frequency	5.25323 GHz	5.25323 GHz
Span	86.460 MHz	86.460 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	173	~ 173
SweepTime	3.460 s	3.460 s
Reference Level	-30.000 dBm	-30.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5210.000000	86.459627	---	---	5167.267081	5253.726708	7.3	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.13000 GHz	5.13000 GHz
Stop Frequency	5.29000 GHz	5.29000 GHz
Span	160.000 MHz	160.000 MHz
RBW	1.000 MHz	~ 800.000 kHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	160	~ 160
SweepTime	22.754 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	27 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

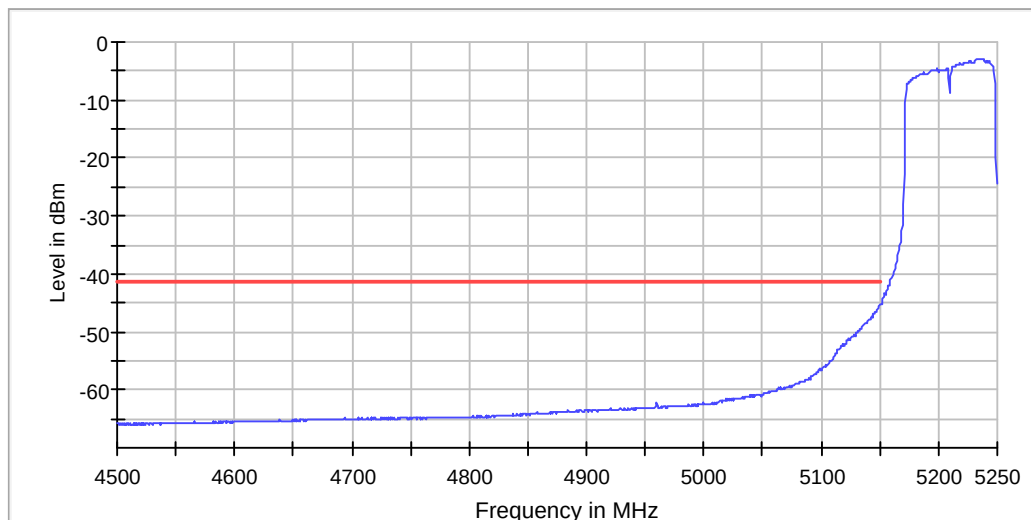
DUT Frequency (MHz)	Result
5210.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5234.825871	-3.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-45.6	4.4	-41.2	PASS
5148.750961	-45.9	4.7	-41.2	PASS
5148.251345	-45.9	4.7	-41.2	PASS
5147.751729	-46.1	4.9	-41.2	PASS
5147.252114	-46.2	5.0	-41.2	PASS
5146.752498	-46.5	5.2	-41.2	PASS
5146.252882	-46.5	5.3	-41.2	PASS
5145.753267	-46.7	5.5	-41.2	PASS
5145.253651	-46.9	5.6	-41.2	PASS
5144.754035	-47.0	5.8	-41.2	PASS
5144.254420	-47.2	6.0	-41.2	PASS
5143.255188	-47.3	6.0	-41.2	PASS
5143.754804	-47.4	6.2	-41.2	PASS
5142.755573	-47.6	6.3	-41.2	PASS
5142.255957	-47.6	6.4	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Band Edge high (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

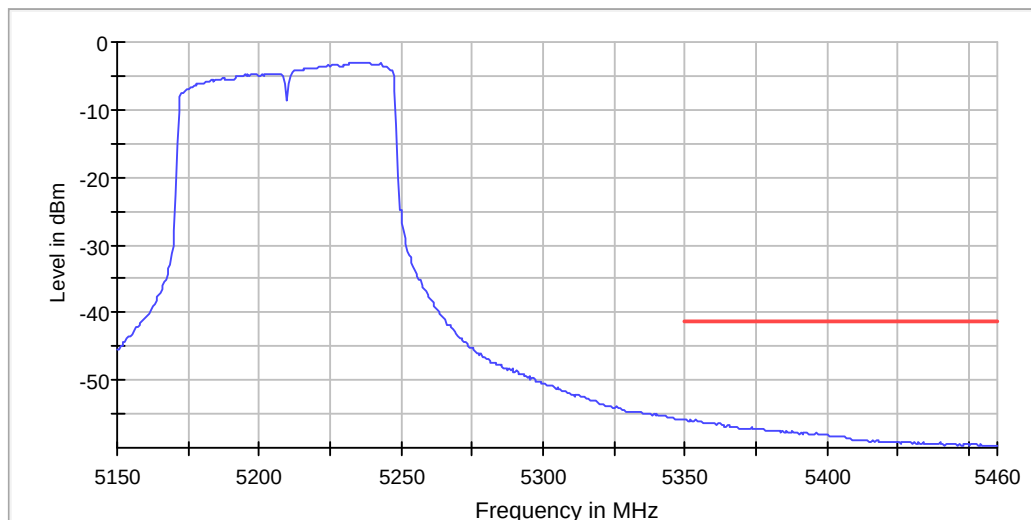
DUT Frequency (MHz)	Result
5210.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5234.825871	-3.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5350.011876	-55.8	14.6	-41.2	PASS
5352.007126	-55.9	14.6	-41.2	PASS
5350.510689	-55.9	14.6	-41.2	PASS
5354.002375	-55.9	14.7	-41.2	PASS
5353.503563	-55.9	14.7	-41.2	PASS
5352.505938	-56.0	14.7	-41.2	PASS
5351.009501	-56.1	14.8	-41.2	PASS
5353.004751	-56.1	14.8	-41.2	PASS
5351.508314	-56.1	14.9	-41.2	PASS
5355.000000	-56.2	15.0	-41.2	PASS
5355.498812	-56.2	15.0	-41.2	PASS
5355.997625	-56.2	15.0	-41.2	PASS
5354.501188	-56.2	15.0	-41.2	PASS
5356.496437	-56.3	15.0	-41.2	PASS
5356.995249	-56.3	15.1	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5210 MHz; 80MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5210.000000	PASS

Final measurements

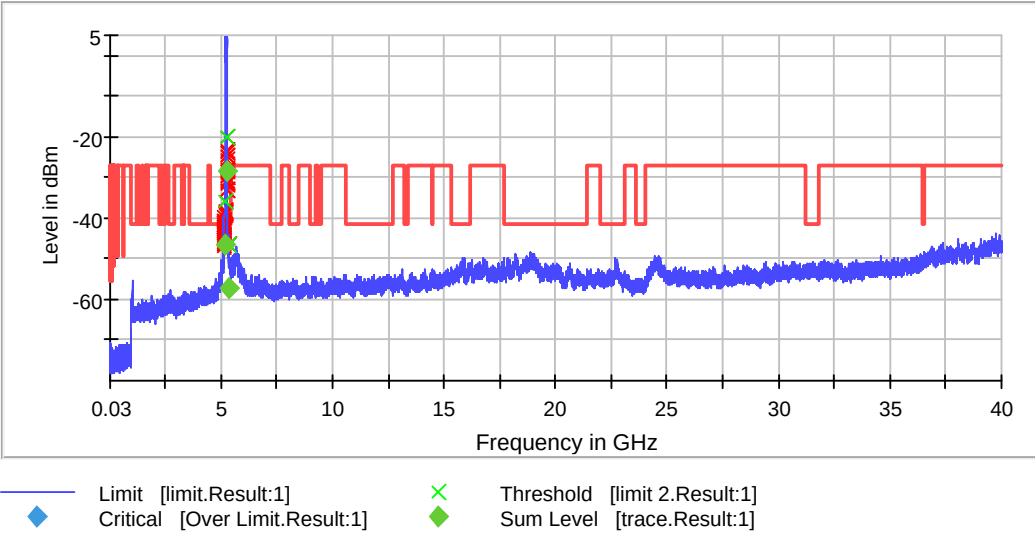
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-35.9	-46.8	-41.2	5.6	PASS
5250.490196	-20.1	-28.4	---	---	PASS
5355.454545	-46.4	-57.2	-41.2	16.0	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5148.500361	-35.9	-5.3	-41.2
5142.501807	-38.2	-3.0	-41.2
5143.501566	-38.3	-2.9	-41.2
5145.501084	-38.7	-2.6	-41.2
5147.500602	-38.8	-2.4	-41.2
5144.501325	-38.9	-2.4	-41.2
5146.500843	-39.3	-1.9	-41.2
5138.502770	-39.7	-1.5	-41.2
5141.502048	-40.4	-0.8	-41.2
5127.505420	-40.5	-0.8	-41.2
5139.502530	-40.7	-0.5	-41.2
5140.502289	-40.7	-0.5	-41.2
5136.503252	-40.8	-0.5	-41.2
5129.504939	-41.0	-0.3	-41.2
5134.503734	-41.1	-0.2	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant2 NHT20

Power Spectral Density (5180 MHz; 22.6866 MHz)

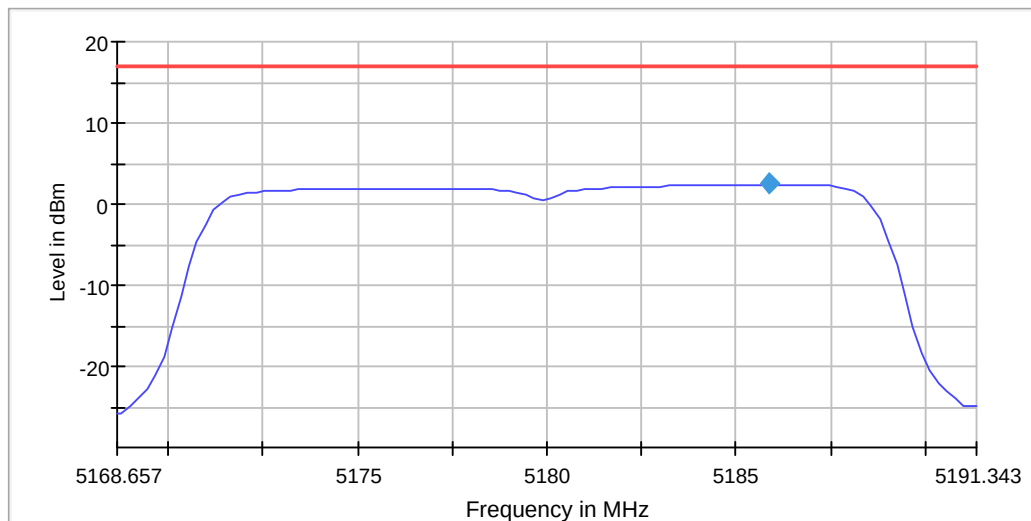
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5180.000000	5185.894094	2.448	17.0	PASS

Ports

Port	Duty Cycle (%)
1	94.792



Measurement

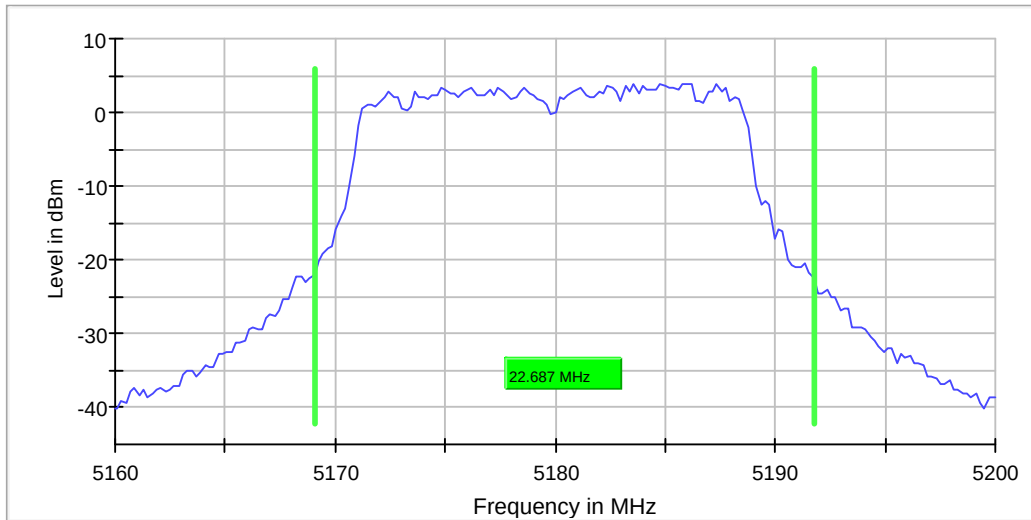
Setting	Instrument Value	Target Value
Start Frequency	5.16866 GHz	5.16866 GHz
Stop Frequency	5.19134 GHz	5.19134 GHz
Span	22.687 MHz	22.687 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 45
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5180.000000	22.686568	---	---	5169.054726	5191.741294	4.0	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.16000 GHz	5.16000 GHz
Stop Frequency	5.20000 GHz	5.20000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	32 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

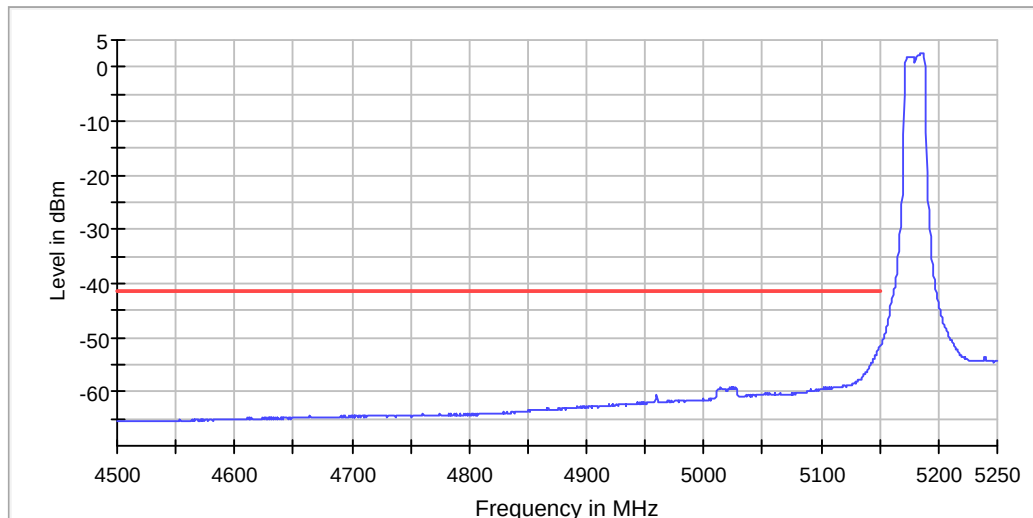
DUT Frequency (MHz)	Result
5180.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5186.567164	2.5

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-51.8	10.6	-41.2	PASS
5148.750961	-51.9	10.6	-41.2	PASS
5148.251345	-52.3	11.1	-41.2	PASS
5147.751729	-52.5	11.2	-41.2	PASS
5147.252114	-52.8	11.6	-41.2	PASS
5146.752498	-53.1	11.9	-41.2	PASS
5146.252882	-53.3	12.1	-41.2	PASS
5145.753267	-53.7	12.4	-41.2	PASS
5145.253651	-53.8	12.6	-41.2	PASS
5144.754035	-54.0	12.8	-41.2	PASS
5144.254420	-54.1	12.9	-41.2	PASS
5143.754804	-54.4	13.2	-41.2	PASS
5142.755573	-54.5	13.3	-41.2	PASS
5143.255188	-54.6	13.3	-41.2	PASS
5141.756341	-55.1	13.8	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5180 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5180.000000	PASS

Final measurements

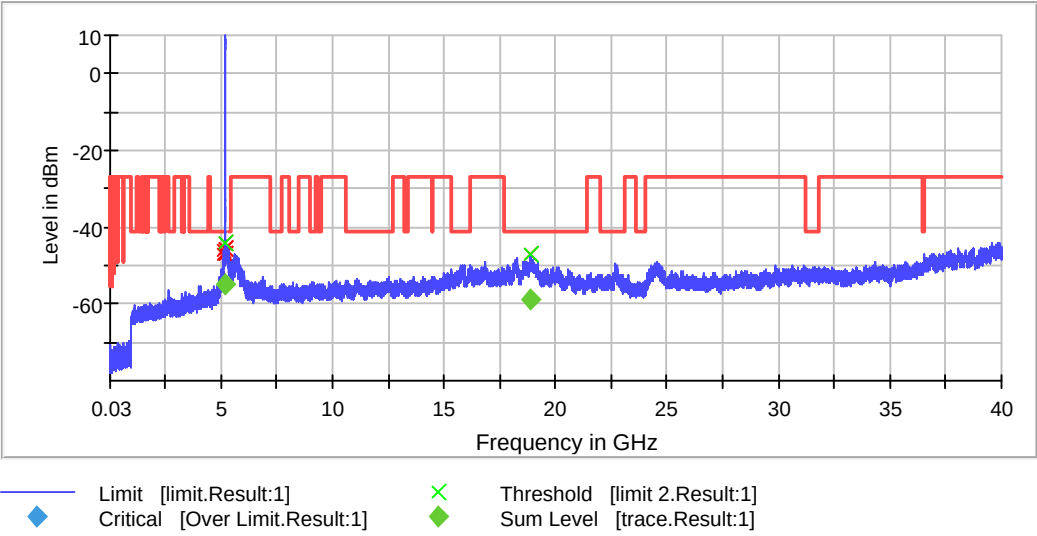
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-43.9	-54.9	-41.2	13.7	PASS
18891.874112	-47.1	-58.8	-41.2	17.6	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5148.500361	-43.9	2.7	-41.2
5143.501566	-45.4	4.2	-41.2
5142.501807	-45.8	4.5	-41.2
5141.502048	-46.1	4.9	-41.2
5145.501084	-46.8	5.6	-41.2
5147.500602	-46.9	5.6	-41.2
18891.874112	-47.1	5.9	-41.2
5140.502289	-47.2	6.0	-41.2
5146.500843	-47.7	6.4	-41.2
5144.501325	-47.7	6.5	-41.2
18841.876743	-47.8	6.6	-41.2
5367.355372	-48.0	6.8	-41.2
18864.875533	-48.1	6.9	-41.2
18288.905847	-48.3	7.0	-41.2
18187.911163	-48.3	7.1	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
Sweeptime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5200 MHz; 23.4826 MHz)

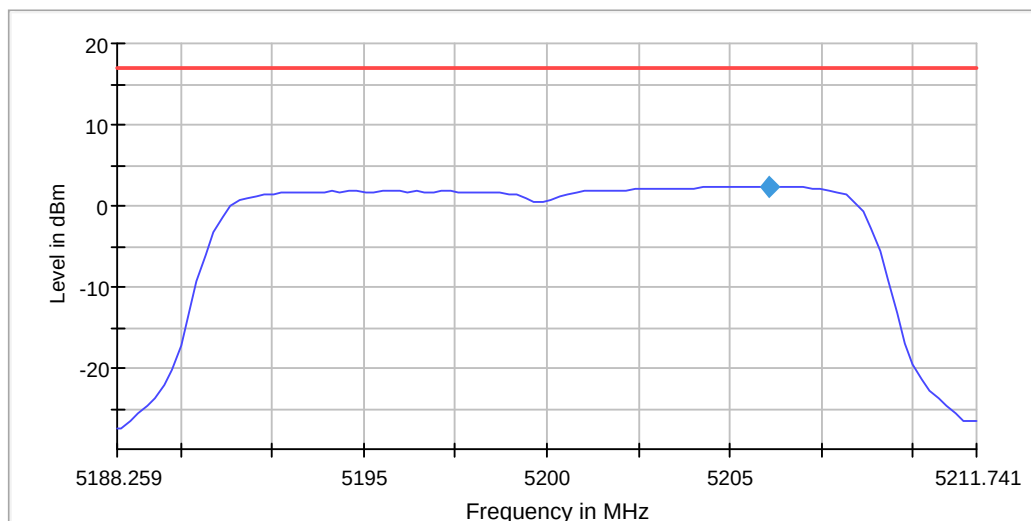
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5200.000000	5206.100872	2.353	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.078



Measurement

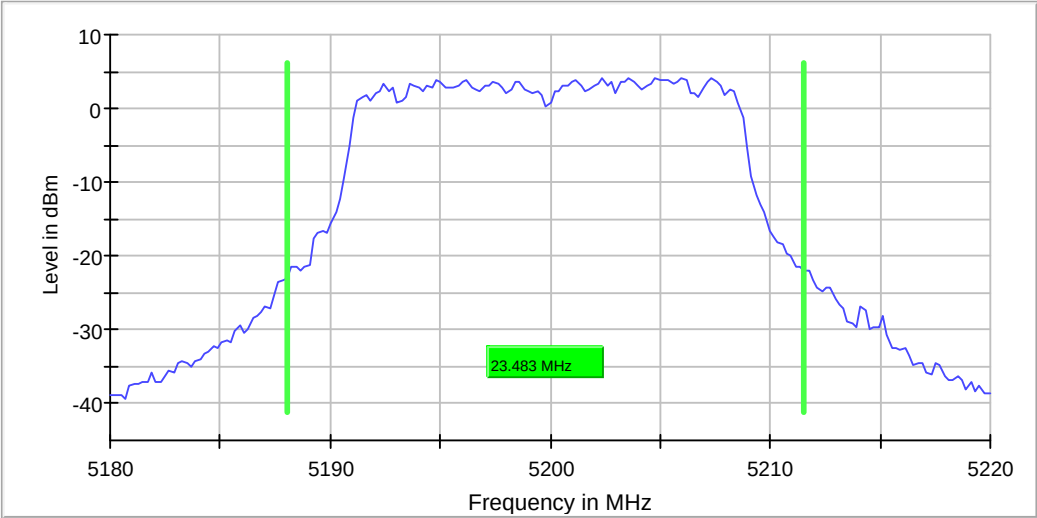
Setting	Instrument Value	Target Value
Start Frequency	5.18826 GHz	5.18826 GHz
Stop Frequency	5.21174 GHz	5.21174 GHz
Span	23.483 MHz	23.483 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 47
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5200.000000	23.482588	---	---	5188.059701	5211.542289	4.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.18000 GHz	5.18000 GHz
Stop Frequency	5.22000 GHz	5.22000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	43 / max. 150	max. 150
Stable	5 / 5	5

Tx Spurious Emission (5200 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5200.000000	PASS

Final measurements

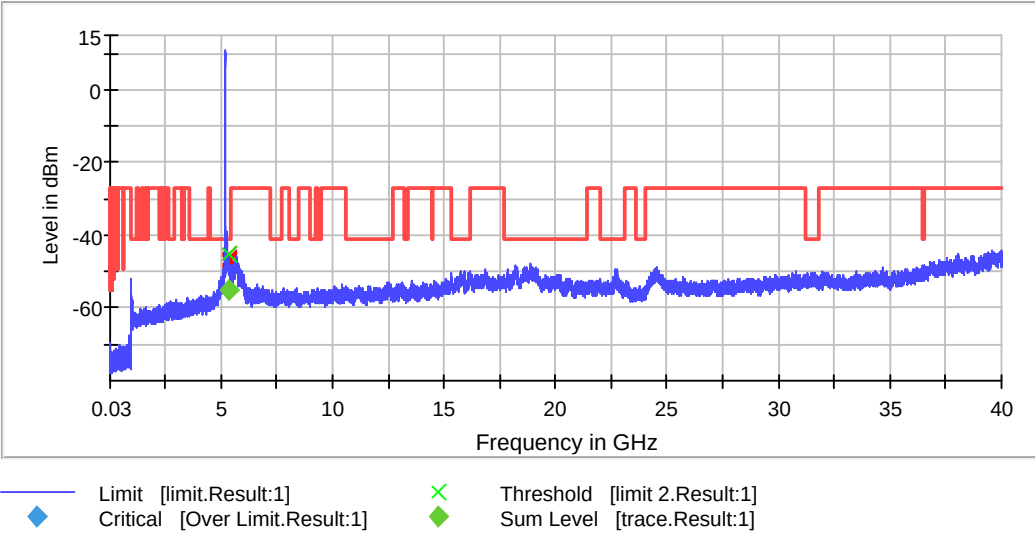
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5358.429752	-45.1	-55.3	-41.2	14.0	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5358.429752	-45.1	3.9	-41.2
5359.421488	-45.2	4.0	-41.2
5364.380165	-46.5	5.3	-41.2
5362.396694	-46.8	5.6	-41.2
5360.413223	-46.9	5.7	-41.2
5353.471074	-46.9	5.7	-41.2
5352.479339	-47.1	5.9	-41.2
5351.487603	-47.2	6.0	-41.2
5371.322314	-47.6	6.3	-41.2
5355.454545	-47.6	6.4	-41.2
5356.446281	-47.7	6.4	-41.2
18878.874796	-47.7	6.5	-41.2
5367.355372	-47.8	6.6	-41.2
5361.404959	-47.9	6.7	-41.2
5369.338843	-47.9	6.7	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5240 MHz; 23.2836 MHz)

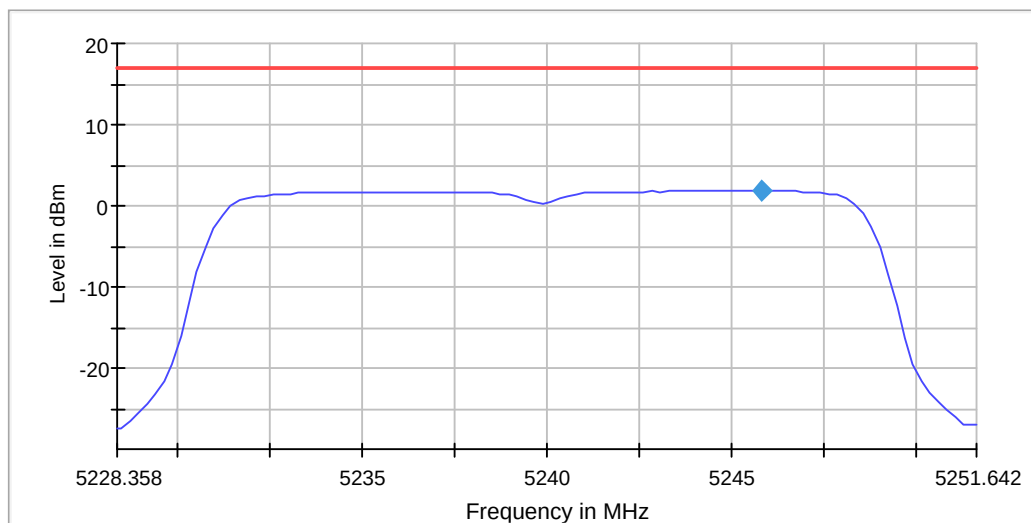
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5240.000000	5245.820900	1.938	17.0	PASS

Ports

Port	Duty Cycle (%)
1	95.309



Measurement

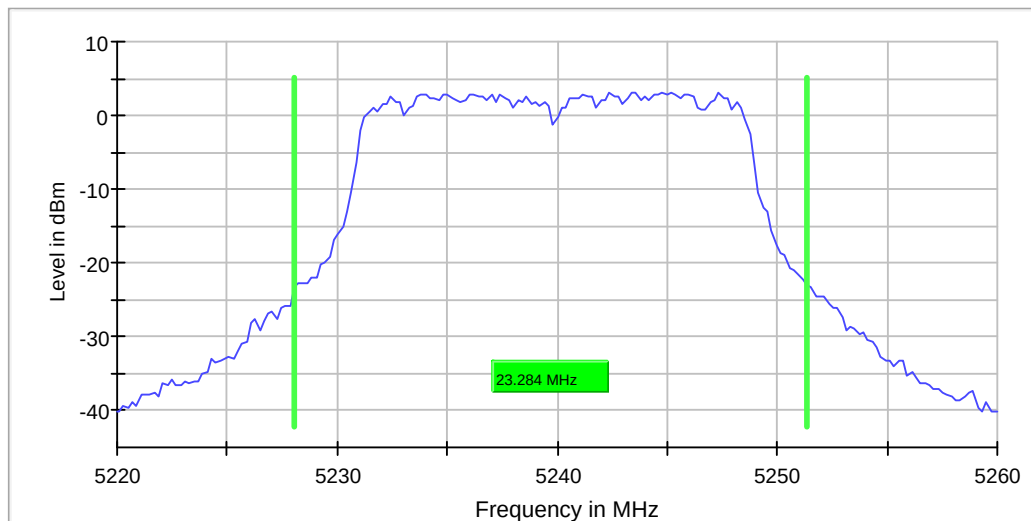
Setting	Instrument Value	Target Value
Start Frequency	5.22836 GHz	5.22836 GHz
Stop Frequency	5.25164 GHz	5.25164 GHz
Span	23.284 MHz	23.284 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 47
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5240.000000	23.283583	---	---	5228.059701	5251.343284	3.2	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.22000 GHz	5.22000 GHz
Stop Frequency	5.26000 GHz	5.26000 GHz
Span	40.000 MHz	40.000 MHz
RBW	200.000 kHz	~ 200.000 kHz
VBW	1.000 MHz	>= 600.000 kHz
SweepPoints	200	~ 200
SweepTime	28.443 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	40 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

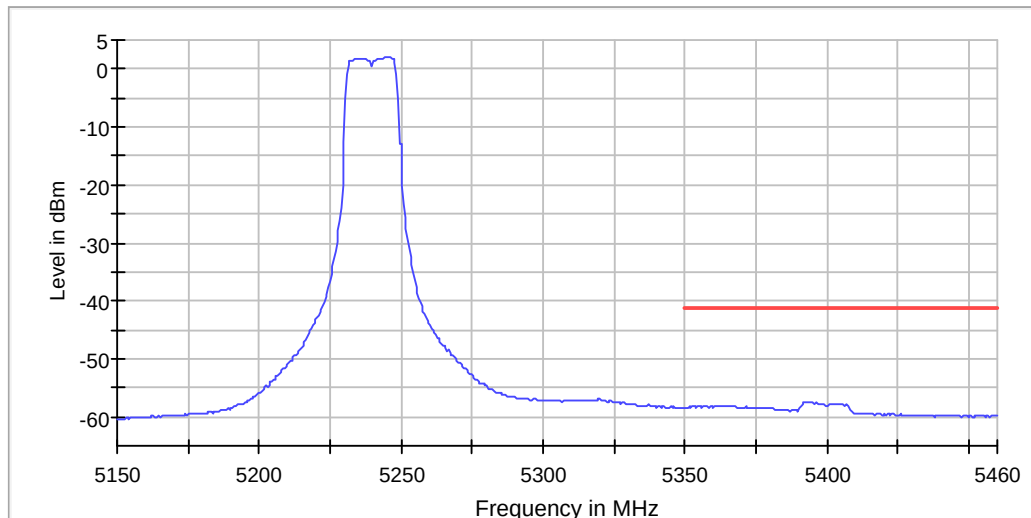
DUT Frequency (MHz)	Result
5240.000000	FAIL

Inband Peak

Frequency (MHz)	Level (dBm)
5244.776119	2.0

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5392.410926	-57.5	16.3	-41.2	PASS
5393.408551	-57.6	16.3	-41.2	PASS
5394.406176	-57.6	16.3	-41.2	PASS
5392.909739	-57.7	16.4	-41.2	PASS
5391.912114	-57.7	16.4	-41.2	PASS
5393.907363	-57.7	16.4	-41.2	PASS
5396.401425	-57.7	16.4	-41.2	PASS
5394.904988	-57.7	16.4	-41.2	PASS
5397.399050	-57.7	16.5	-41.2	PASS
5395.902613	-57.7	16.5	-41.2	PASS
5396.900238	-57.7	16.5	-41.2	PASS
5398.396675	-57.7	16.5	-41.2	PASS
5395.403800	-57.7	16.5	-41.2	PASS
5403.384798	-57.8	16.5	-41.2	PASS
5401.389549	-57.8	16.5	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5240 MHz; 20 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5240.000000	PASS

Final measurements

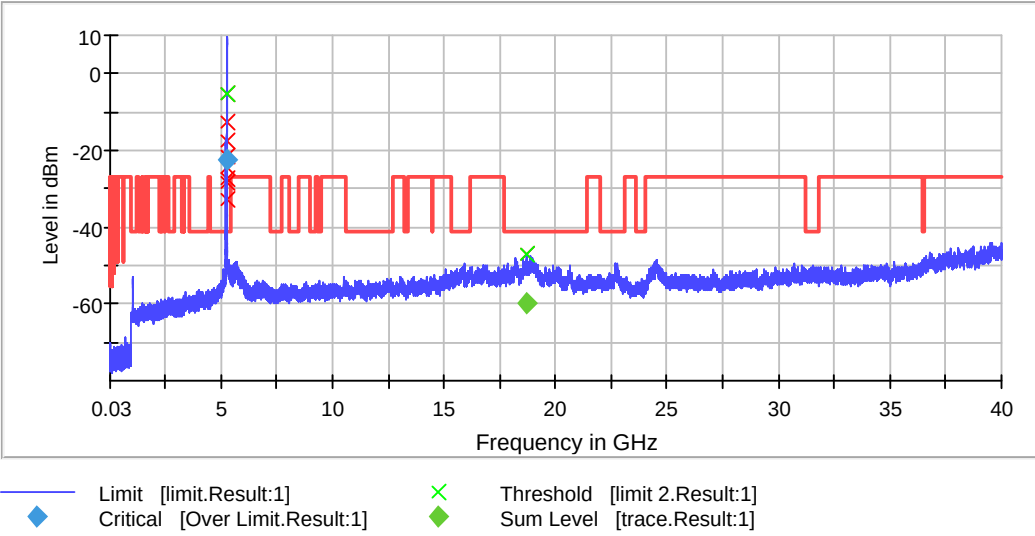
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
18683.885059	-47.0	-60.0	-41.2	18.8	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
18683.885059	-47.0	5.8	-41.2
18887.874322	-47.8	6.6	-41.2
18962.870375	-48.2	6.9	-41.2
36498.750089	-48.2	7.0	-41.2
18225.909163	-48.3	7.0	-41.2
18544.892374	-48.3	7.1	-41.2
18897.873796	-48.3	7.1	-41.2
18890.874165	-48.3	7.1	-41.2
18923.872428	-48.4	7.2	-41.2
18898.873743	-48.4	7.2	-41.2
18894.873954	-48.6	7.3	-41.2
18846.876480	-48.6	7.4	-41.2
18949.871059	-48.6	7.4	-41.2
18845.876533	-48.7	7.4	-41.2
18210.909952	-48.7	7.4	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

UNII-1 Ant2 NHT40

Power Spectral Density (5190 MHz; 43.2836 MHz)

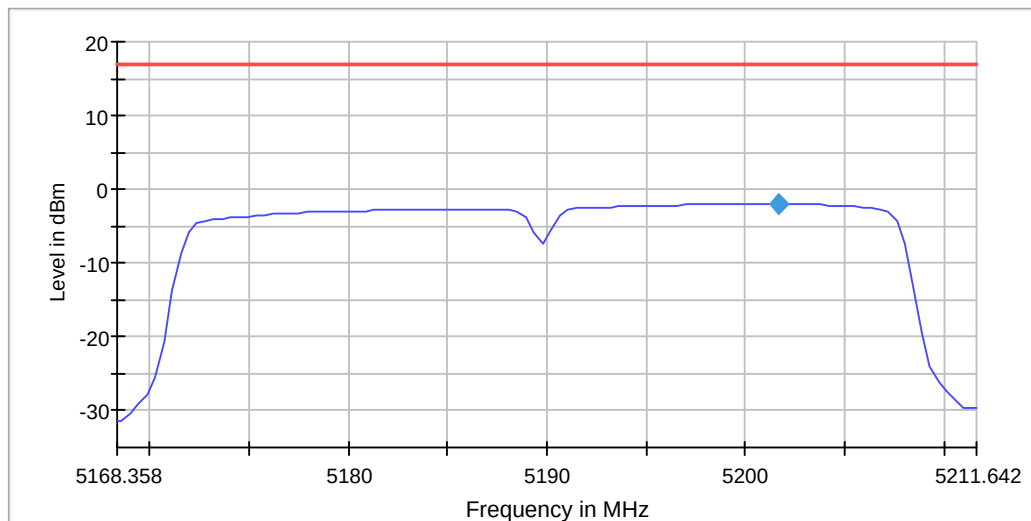
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5190.000000	5201.669598	-1.946	17.0	PASS

Ports

Port	Duty Cycle (%)
1	92.562



Measurement

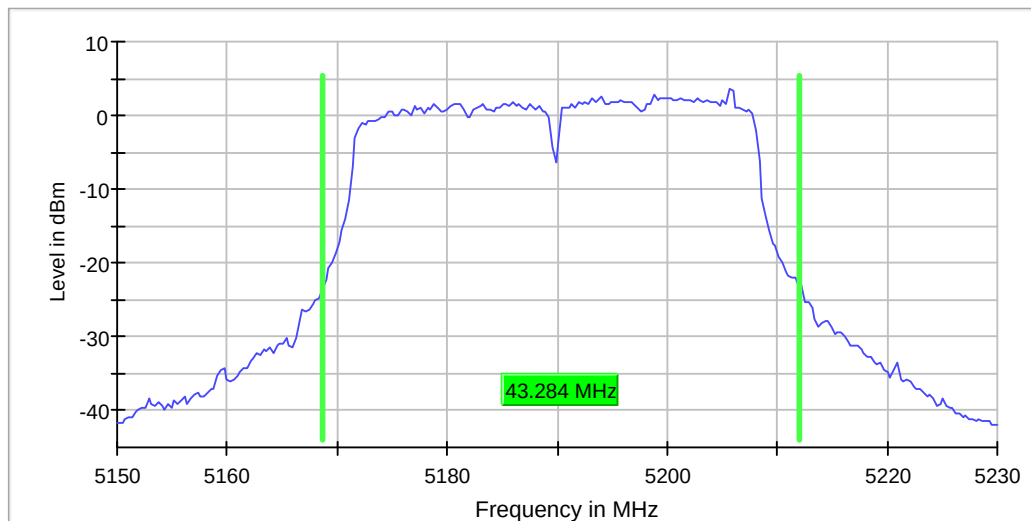
Setting	Instrument Value	Target Value
Start Frequency	5.16836 GHz	5.16836 GHz
Stop Frequency	5.21164 GHz	5.21164 GHz
Span	43.284 MHz	43.284 MHz
RBW	1.000 MHz	≤ 1.000 MHz
VBW	3.000 MHz	≥ 3.000 MHz
SweepPoints	101	~ 87
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5190.000000	43.283583	---	---	5168.656716	5211.940299	3.5	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.15000 GHz	5.15000 GHz
Stop Frequency	5.23000 GHz	5.23000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
Sweeptime	31.603 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	45 / max. 150	max. 150
Stable	5 / 5	5

Band Edge low (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

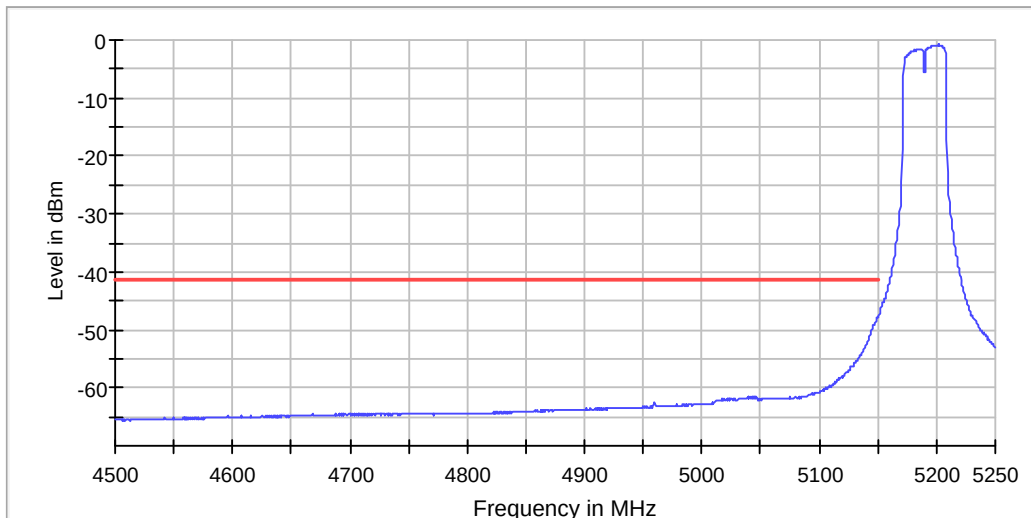
DUT Frequency (MHz)	Result
5190.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5201.990050	-0.8

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5149.250576	-47.8	6.6	-41.2	PASS
5148.750961	-48.3	7.0	-41.2	PASS
5148.251345	-48.5	7.2	-41.2	PASS
5147.751729	-48.7	7.5	-41.2	PASS
5147.252114	-48.8	7.6	-41.2	PASS
5146.752498	-49.2	8.0	-41.2	PASS
5146.252882	-49.2	8.0	-41.2	PASS
5145.753267	-49.8	8.5	-41.2	PASS
5145.253651	-49.9	8.6	-41.2	PASS
5144.754035	-50.0	8.8	-41.2	PASS
5144.254420	-50.3	9.1	-41.2	PASS
5143.754804	-50.7	9.5	-41.2	PASS
5143.255188	-50.9	9.6	-41.2	PASS
5142.755573	-51.0	9.8	-41.2	PASS
5142.255957	-51.4	10.1	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	1300	~ 1300
SweepTime	1.300 s	1.300 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5190 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5190.000000	PASS

Final measurements

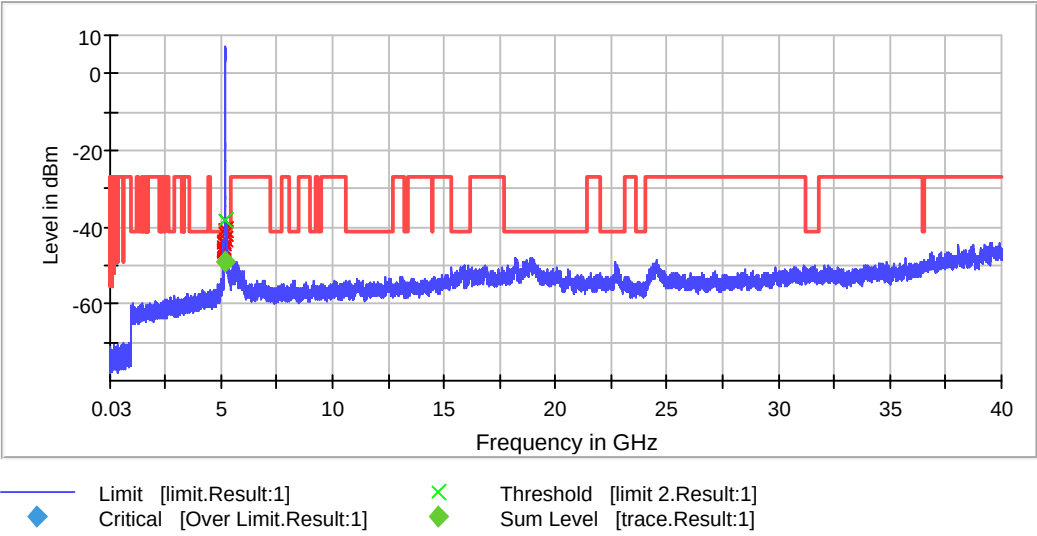
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5148.500361	-38.3	-48.9	-41.2	7.7	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
5148.500361	-38.3	-3.0	-41.2
5146.500843	-40.6	-0.7	-41.2
5144.501325	-40.7	-0.5	-41.2
5143.501566	-40.8	-0.5	-41.2
5147.500602	-41.5	0.2	-41.2
5145.501084	-41.8	0.6	-41.2
5142.501807	-42.9	1.6	-41.2
5137.503011	-43.6	2.4	-41.2
5141.502048	-43.9	2.6	-41.2
5139.502530	-44.2	3.0	-41.2
5138.502770	-45.3	4.0	-41.2
5140.502289	-45.5	4.3	-41.2
5136.503252	-45.9	4.7	-41.2
5134.503734	-46.0	4.8	-41.2
5133.503975	-46.0	4.8	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off

Power Spectral Density (5230 MHz; 43.8806 MHz)

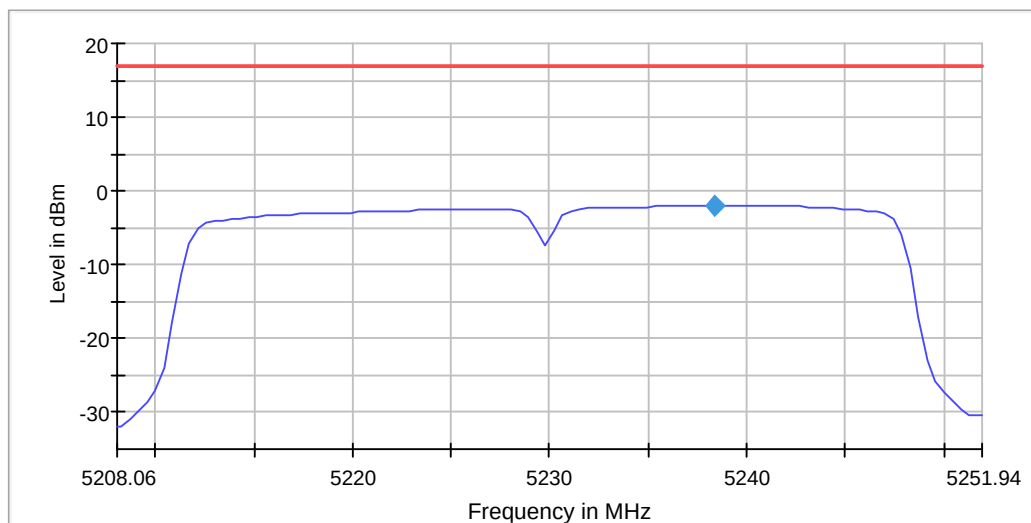
Test according to FCC title 47 part 15 §15.407(a), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
5230.000000	5238.388938	-1.975	17.0	PASS

Ports

Port	Duty Cycle (%)
1	92.924



Measurement

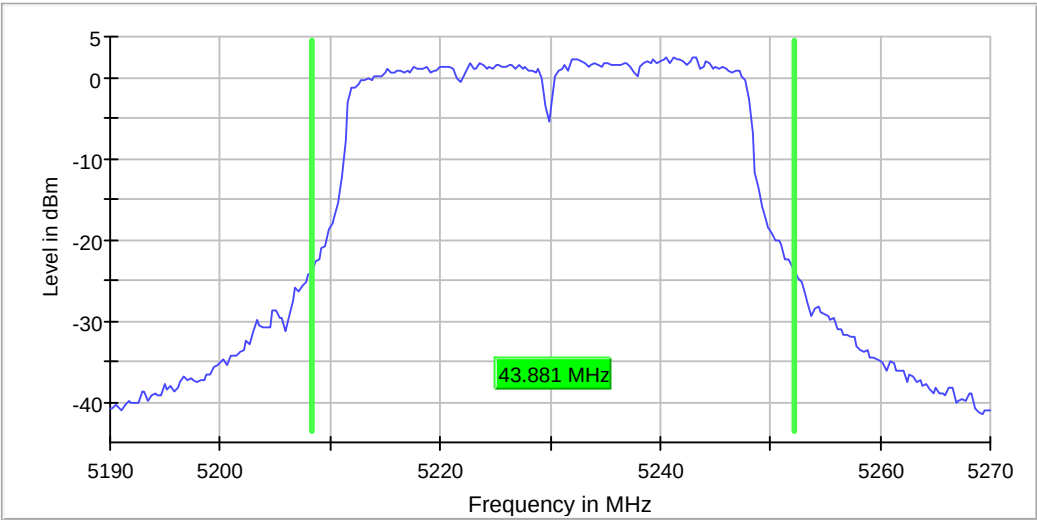
Setting	Instrument Value	Target Value
Start Frequency	5.20806 GHz	5.20806 GHz
Stop Frequency	5.25194 GHz	5.25194 GHz
Span	43.881 MHz	43.881 MHz
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	101	~ 88
SweepTime	2.020 s	2.020 s
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	3	3
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Emission Bandwidth 26 dB (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(a),(e), KDB 789033 D02 General U-NII Test Procedures
New Rules v01r02 and ANSI C63.10

26 dB Bandwidth

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5230.000000	43.880597	---	---	5208.358209	5252.238806	2.4	PASS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	5.19000 GHz	5.19000 GHz
Stop Frequency	5.27000 GHz	5.27000 GHz
Span	80.000 MHz	80.000 MHz
RBW	300.000 kHz	~ 400.000 kHz
VBW	1.000 MHz	>= 900.000 kHz
SweepPoints	267	~ 267
SweepTime	31.603 μ s	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	78 / max. 150	max. 150
Stable	5 / 5	5

Band Edge high (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

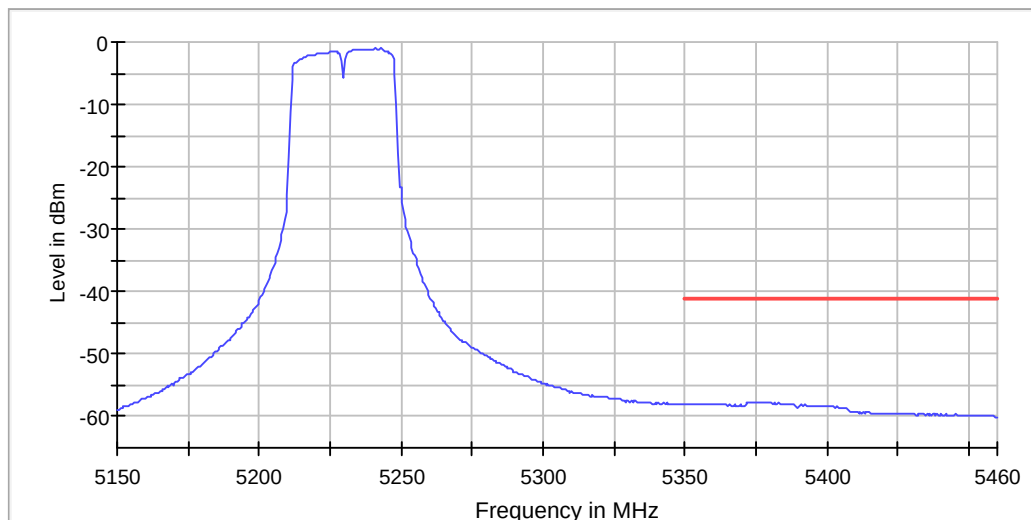
DUT Frequency (MHz)	Result
5230.000000	PASS

Inband Peak

Frequency (MHz)	Level (dBm)
5242.786070	-0.9

Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)	Result
5373.456057	-57.7	16.5	-41.2	PASS
5372.957245	-57.7	16.5	-41.2	PASS
5374.453682	-57.7	16.5	-41.2	PASS
5379.441805	-57.7	16.5	-41.2	PASS
5374.952494	-57.8	16.5	-41.2	PASS
5373.954869	-57.8	16.6	-41.2	PASS
5375.451306	-57.8	16.6	-41.2	PASS
5382.933492	-57.8	16.6	-41.2	PASS
5371.959620	-57.8	16.6	-41.2	PASS
5375.950119	-57.8	16.6	-41.2	PASS
5377.446556	-57.8	16.6	-41.2	PASS
5378.444181	-57.8	16.6	-41.2	PASS
5376.448931	-57.8	16.6	-41.2	PASS
5378.942993	-57.8	16.6	-41.2	PASS
5376.947743	-57.8	16.6	-41.2	PASS



Measurement 1

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	200	~ 200
SweepTime	200.000 ms	200.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Measurement 2

Setting	Instrument Value	Target Value
RBW	1.000 MHz	<= 1.000 MHz
VBW	3.000 MHz	>= 3.000 MHz
SweepPoints	420	~ 420
SweepTime	420.000 ms	420.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	AUTO
Detector	RMS	RMS
SweepCount	5	5
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30	0.30
Run	3 / max. 15	max. 15
Stable	3 / 3	3

Tx Spurious Emission (5230 MHz; 40 MHz)

Test according to FCC title 47 part 15 §15.407(b), KDB 789033 D02 General U-NII Test Procedures New Rules v01r02 and ANSI C63.10

Result

DUT Frequency (MHz)	Result
5230.000000	PASS

Final measurements

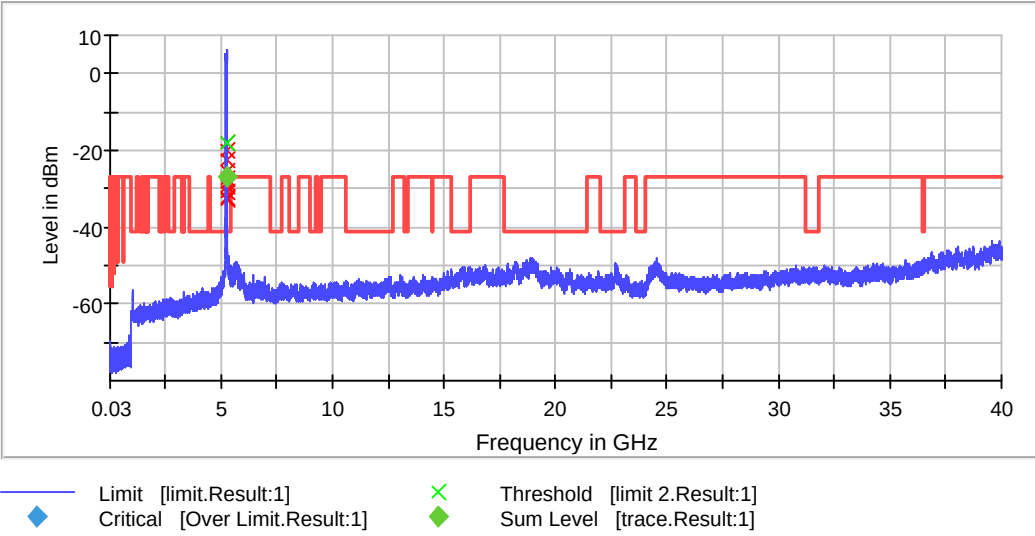
Frequency (MHz)	Level Pre Measurement (dBm)	level (dBm)	Limit (dBm)	Margin (dB)	Result
5250.490196	-18.0	-27.1	---	---	PASS

Pre Measurements

Frequency (MHz)	Level (dBm)	Margin (dB)	Limit (dBm)
18875.874954	-48.0	6.7	-41.2
18932.871954	-48.1	6.9	-41.2
36477.751589	-48.6	7.4	-41.2
18895.873901	-48.7	7.4	-41.2
18695.884427	-48.7	7.5	-41.2
19001.868323	-48.7	7.5	-41.2
18889.874217	-48.7	7.5	-41.2
18953.870849	-48.7	7.5	-41.2
18894.873954	-48.8	7.6	-41.2
18869.875270	-48.8	7.6	-41.2
18884.874480	-48.9	7.6	-41.2
19040.866270	-48.9	7.7	-41.2
18691.884638	-48.9	7.7	-41.2
36475.751732	-49.0	7.7	-41.2
18902.873533	-49.0	7.7	-41.2

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	26000.000000	2	2
26000.000000	40000.000000	2	2



Final Measurement

Setting	Instrument Value	Target Value
Span	ZeroSpan	ZeroSpan
RBW	1.000 MHz	~ 1.000 MHz
VBW	3.000 MHz	~ 3.000 MHz
SweepPoints	10001	~ 10001
SweepTime	50.000 ms	50.000 ms
Reference Level	-20.000 dBm	-20.000 dBm
Attenuation	0.000 dB	0.000 dB
Detector	RMS	RMS
SweepCount	1	1
Filter	3 dB	3 dB
Trace Mode	Clear Write	Clear Write
SweepType	Sweep	AUTO
Preamp	off	off