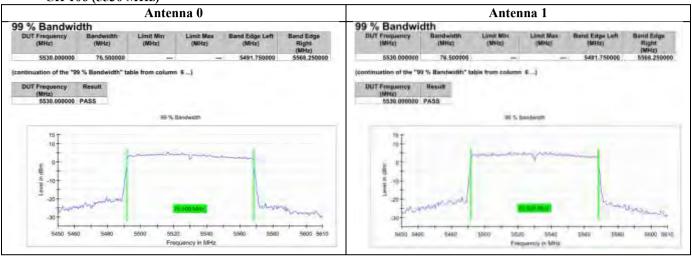


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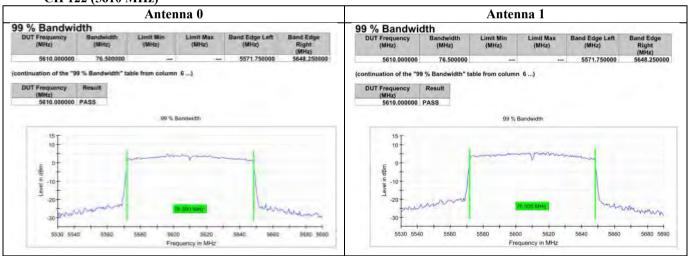
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99% Bandwidth Measurement

802.11ac VHT80 CH 106 (5530 MHz)



802.11ac VHT80 CH 122 (5610 MHz)

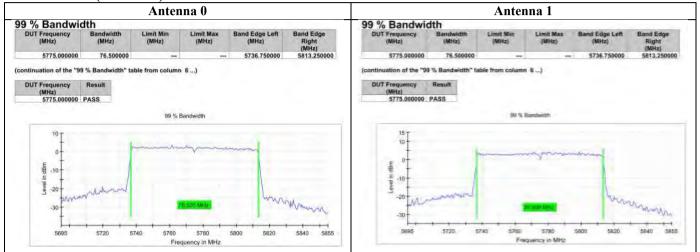




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99% Bandwidth Measurement

802.11ac VHT80 CH 155 (5775 MHz)





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3.1.7 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.207 Class B

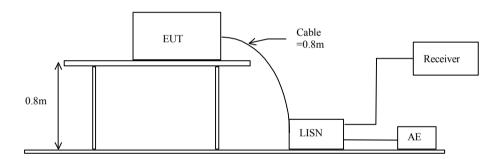
Test Method: ANSI C63.10: 2013

Test Date: 2021-05-03 Mode of Operation: Tx mode

Test Method:

The test was performed in accordance with ANSI C63.10: 2013, with the following: initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

Test Setup:



Limits for Conducted Emissions (FCC 47 CFR 15.207):

Frequency Range	Quasi-Peak Limits	Average
[MHz]	[dBµV]	[dBµV]
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

^{*} Decreases with the logarithm of the frequency.

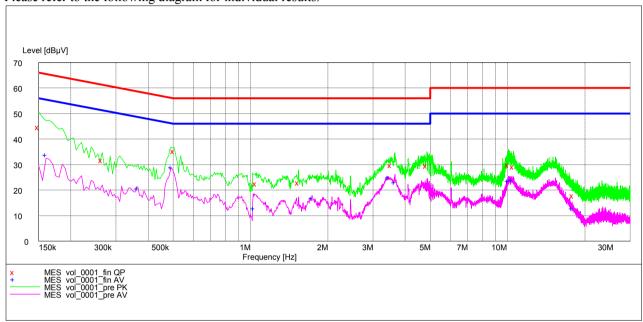
Limits for Conducted Emissions Test, please refer to limit lines (Quasi-Peak and Average) in the following diagram.



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Results of Tx mode (Live): PASS

Please refer to the following diagram for individual results.



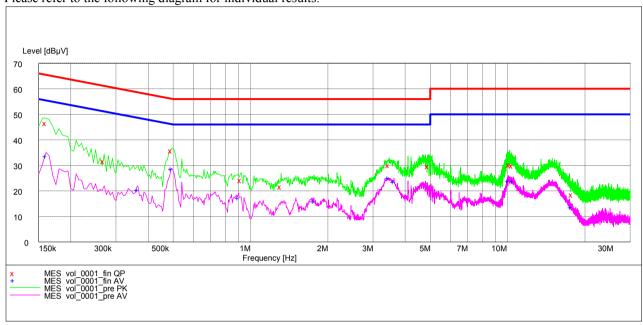
MEASUREMENT RESULT: "vol_0001_fin QP" Frequency Level Transd Limit Margin Line PE MHz dBμV dB dBμV dB			MEASUREM Frequency MHz		Transo		it Margin		ļ			
0.150000	45.00	9.9	66	21.0 L1	GND	0.160000	33.90	9.9	56	21.6 L1	GND	
0.265000	31.90	9.9	61	29.4 L1	GND	0.365000	20.90	10.0	49	27.8 L1	GND	
0.505000	35.60	10.0	56	20.4 L1	GND	0.495000	29.00	10.0	46	17.1 L1	GND	
1.055000	22.80	10.0	56	33.2 L1	GND	1.035000	13.10	10.0	46	32.9 L1	GND	
1.540000	23.20	10.0	56	32.8 L1	GND	1.735000	16.90	10.0	46	29.1 L1	GND	
3.525000	30.10	10.2	56	25.9 L1	GND	3.445000	25.10	10.1	46	20.9 L1	GND	
4.855000	29.80	10.3	56	26.2 L1	GND	3.650000	23.20	10.2	46	22.8 L1	GND	
10.085000	30.30	10.4	60	29.7 L1	GND	10.085000	23.70	10.4	50	26.3 L1	GND	
10.550000	29.40	10.5	60	30.6 L1	GND	10.405000	24.10	10.5	50	25.9 L1	GND	
18 045000	18 20	10.3	60	41 8 I 1	GND	17 860000	13 10	10.3	50	36.9 I 1	GND	



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Results of Tx mode (Neutral): PASS

Please refer to the following diagram for individual results.



MEASUREMENT RESULT: "vol_0001_fin QP"MEASUREMENT RESULT: "vol_0FrequencyLevel Transd Limit Margin Line PEFrequencyLevel Transd Limit Margin Line PEMHzdBμVdB dBμVMHzdBμVdB dBμV					it Margin						
0.160000	46.80	9.9	66	18.6 N	GND	0.160000	33.70	9.9	56	21.8 N	GND
0.270000	32.00	9.9	61	29.1 N	GND	0.365000	20.50	10.0	49	28.1 N	GND
0.495000	36.10	10.0	56	20.0 N	GND	0.495000	28.80	10.0	46	17.3 N	GND
0.920000	24.50	10.0	56	31.5 N	GND	0.900000	17.40	10.0	46	28.6 N	GND
1.315000	22.00	10.0	56	34.0 N	GND	1.765000	16.10	10.0	46	29.9 N	GND
3.470000	30.40	10.1	56	25.6 N	GND	3.450000	25.30	10.1	46	20.7 N	GND
4.930000	29.90	10.3	56	26.1 N	GND	3.620000	23.70	10.2	46	22.3 N	GND
10.190000	30.60	10.4	60	29.4 N	GND	10.105000	24.10	10.4	50	25.9 N	GND
10.455000	30.20	10.5	60	29.8 N	GND	10.510000	23.80	10.5	50	26.2 N	GND
17.850000	18 70	10.3	60	41 3 N	GND	17 695000	13.70	10.3	50	36 3 N	GND



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3.1.6 Frequency stability

 Test Requirement:
 FCC 47CFR 15.407

 Test Method:
 ANSI C63.10:2013

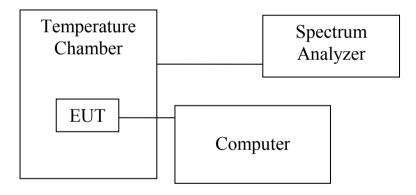
 Test Date:
 2020-03-30 to 2020-03-31

 Mode of Operation:
 Tx mode (802.11 a)

Test Method:

The test was performed in accordance with ANSI C63.10: 2013, to ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10 dB lower than the measured peak value. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

Test Setup:



Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.



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Frequency stability

Results of Tx mode (5180 MHz): PASS

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
4.75		5180.0210	4.05405
5.00	20	5180.0215	4.15058
5.25		5180.0217	4.18919

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
	0	5180.01225	2.36486
	10	5180.00175	0.33784
	20	5180.0215	4.15058
5.00	30	5180.0100	1.93050
	40	5179.96975	-5.83977
	50	5179.9705	-5.69498
	65	5179.9825	-3.37838

Results of Tx mode (5240 MHz): PASS

Volta (V)	nge T	emperature (℃)	Test result (MHz)	Test result (ppm)
4.7	5		5240.0214	4.08397
5.0	0	20	5240.0215	4.10305
5.2			5240.0216	4.12214

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
	0	5240.04425	8.44466
	10	5240.0015	0.28626
	20	5240.0215	4.10305
5.00	30	5239.98125	-3.57824
	40	5239.9745	-4.86641
	50	5239.96925	-5.86832
	65	5239.981	-3.62595



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Frequency stability

Results of Tx mode (5260 MHz): PASS

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
4.75		5260.021	3.99240
5.00	20	5260.021	3.99240
5.25]	5260.0213	4.04943

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
	0	5260.04075	7.74715
	10	5260.032	6.08365
	20	5260.021	3.99240
5.00	30	5259.98225	-3.37452
	40	5259.97425	-4.89544
	50	5260.004	0.76046
	65	5259.97975	-3.84981

Results of Tx mode (5320 MHz): PASS

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
4.75		5319.9855	-2.72556
5.00	20	5319.98607	-2.61842
5.25		5319.9861	-2.61278

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
	0	5319.94575	-10.19737
	10	5319.93525	-12.17105
	20	5319.98607	-2.61842
5.00	30	5319.97475	-4.74624
	40	5319.968	-6.01504
	50	5319.96725	-6.15602
	65	5319.97925	-3.90038



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Frequency stability

Results of Tx mode (5500 MHz): PASS

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
4.75		5499.9731	-4.89091
5.00	20	5499.973135	-4.88455
5.25]	5499.9736	-4.80000

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
	0	5500.04375	7.95455
	10	5500.03075	5.59091
	20	5499.973135	-4.88455
5.00	30	5499.980597	-3.52782
	40	5499.967	-6.00000
	50	5499.966	-6.18182
	65	5499.98575	-2.59091

Results of Tx mode (5700 MHz): PASS

Voltage (V)	Temperature (℃)	Test result (MHz)	Test result (ppm)
4.75		5699.9807	-3.38596
5.00	20	5699.980846	-3.36035
5.25		5699.9809	-3.35088

Voltage	Temperature	Test result	Test result
(V)	(℃)	(MHz)	(ppm)
	0	5700.0665	11.66667
	10	5700.00025	0.04386
	20	5699.980846	-3.36035
5.00	30	5699.970896	-5.10596
	40	5699.9715	-5.00000
	50	5699.9705	-5.17544
	65	5699.99	-1.75439



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Frequency stability

Results of Tx mode (5745 MHz): PASS

Voltage Temperature		Test result	Test result
4.75	(C)	(MHz) 5744.9182	(ppm) -14.23847
5.00	20	5744.918161	-14.24526
5.25		5744.919	-14.09922

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
	0	5745.01925	3.35074
	10	5745.01075	1.87119
	20	5744.918161	-14.24526
5.00	30	5744.97125	-5.00435
	40	5744.9765	-4.09051
	50	5744.96325	-6.39687
	65	5744.98975	-1.78416

Results of Tx mode (5825 MHz): PASS

Voltage (V)	Voltage Temperature (V) (℃)		Test result (ppm)	
4.75		5825.01772	3.04206	
5.00	20	5825.01775	3.04721	
5.25		5825.0179	3.07296	

Voltage (V)	Temperature (°C)	Test result (MHz)	Test result (ppm)
	0	5825.042	7.21030
	10	5825.0305	5.23605
	20	5825.01775	3.04721
5.00	30	5825.0135	2.31760
	40	5824.9995	-0.08584
	50	5824.998	-0.34335
	65	5825.0275	4.72103



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3.1.7 RF Exposure

RF Exposure

Test Requirement:

FCC 47CFR 2.1093

Test Date:

2021-05-06

Mode of Operation:

Tx mode

Requirements:

In 15.407(f), an equipment shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the limits in §§ 1.1310 and 2.1093 of this chapter.

Applications to the Commission for construction permits licenses to transmit or renewals thereof

Applications to the Commission for construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities must contain a statement confirming compliance with the limits unless the facility, operation, or transmitter is categorically excluded, as discussed below. Technical information showing the basis for this statement must be submitted to the Commission upon request.

According to § 1.1310: The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ⁻²)	Averaging time (minutes)
	(A) Limits for O	ccupational/Controlled	Exposure	
0.3-3.0	614	1.6	3 * 100	6
3.0-30	1842/f	4,89/	f = 900/f ²	.6
30-300	61.4	0.16	3 1.0	6
300-1,500			F/300	6
1,500-100,000			5	6
	(B) Limits for Gener	ai Population/Uncontr	olled Exposure	
0.3-1.34	614	1.6	3 * 100	30
1.34-30	824/f	2.19/	f = 180/f ²	30
30-300	27.5	0.07	3 0.2	30
300-1,500			F/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density



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Test Results:

An MPE evaluation for was performed in order to show that the device was compliant with §2.1091. The maximum power density was calculated for each transmitter at a separation distance of 20cm. For each transmitter the maximum RF exposure at a 20 cm distance using the formula:

Power Density = (Conducted Power * Ant. Gain)/ $(4\pi*(20\text{cm})^2)$

Results:

The EUT separation distances is \geq 20cm The Maximum conducted output power = 18.50 dBm @5825MHz (802.11ac VHT20 - MIMO) Tune-up power = 19.0dBm (79.43mW)

The Maximum e.i.r.p. = 19.0 dBm + 6.0 dBi = 25.0 dBm (316.23 mW)

Power Density = 0.06291 mW/cm^2

MPE Limit at $5825 \text{ MHz} = 1.0 \text{ mW/cm}^2$

Simultaneous transmission Evaluation

5 GHz Wi-Fi + 2.4 GHz Bluetooth

Refer to Report No. 20/01-0031

The Maximum conducted output power = 7.79 dBm @ 2441 MHz (Bluetooth – 8DPSK) Tune-up power = 8.00 dBm (6.31 mW)

The 2.4 GHz Bluetooth Maximum e.i.r.p. = 8.00 dBm + 0.29 dBi = 8.29 dBm (6.75 mW)

Power Density = 0.00134 mW/cm^2

MPE Limit at 2441 MHz = 1.0 mW/cm^2

 $5 \text{ GHz Wi-Fi} + 2.4 \text{ GHz Bluetooth} = 0.06291 + 0.00134 = 0.06425 \text{ mW/cm}^2$

Therefore, the RF Exposure evaluation can be exempted.



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3.1.8 Antenna Requirement

Test Requirements: § 15.203

Test Specification:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Results:

EUT antenna information and antenna gain refer to the clause 1.7.

External antenna connector is RP-SMA.

Result: Pass



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Appendix A

List of Measurement Equipment

Radiated Emission

	1	Radiated L				1
EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3		2021/04/23	2022/04/24
EM356	ANTENNA POSITIONING TOWER	ETS-LINDGREN	2171B	00150346	N/A	N/A
EM219	BICONILOG ANTENNA	ETS-LINDGREN	3143B	142073	2020/06/17	2022/06/17
EM299	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3115	00114120	2020/08/08	2022/08/08
EM300	Pyramidal Standard Gain Horn Antenna	ETS-Lindgren	3160-09	00130130	2020/08/08	2022/08/08
EM301	Pyramidal Standard Gain Horn Antenna	ETS-Lindgren	3160-10	00130988	2020/08/08	2022/08/08
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2019/11/30	2021/11/30
EM363	SIGNAL AND SPECTRUM ANALYZER	R&S	FSV 40	1321.3008K39- 101231-EK	2019/10/08	2021/10/08
EM364	OPEN SWITCH AND CONTROL PLATFORM	R&S	OSP-B157W8	101002	2019/05/03	2022/05/03
EM360	TEMP & HUMIDITY CHAMBER	GUANGDONG AISIRUI INSTRUMENT TECHNOLOGY CO., LTD.	LX-80L	201801B	2021/05/27	2022/05/27

Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	2020/06/30	2022/06/30
EM181	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESIB7	100072	2021/05/26	2022/05/26
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357-8810.52/54	2021/01/11	2022/01/11
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057- 99A	2017/02/06	2022/02/06
N/A	MEASUREMENT AND EVALUATION SOFTWARE	ROHDE & SCHWARZ	ESIB-K1	V1.20	N/A	N/A

Test Software

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
	TS8997 TEST SYSTEM	R & S	WMS32	-	-	

Support Equipment

Ī	EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
		COMPUTER	LENOVO	TP00086A	10P98060		-

Remarks:-

CM Corrective Maintenance

N/A Not Applicable
TBD To Be Determined

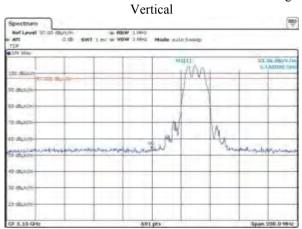


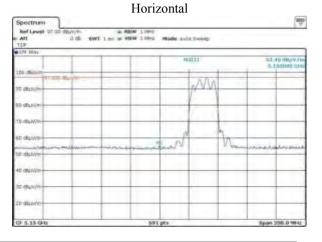
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Appendix B

Unwanted emission 802.11a 5180 MHz (CH36) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	53.6	74.0	-20.4
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	Н	PK	1	53.4	74.0	-20.6
5150.0	Н	AV	1	PK < AV	54.0	N/A

Measured Level $[dB\mu V/m]$ = Reading of test receiver $[dB\mu V]$ + correction factor

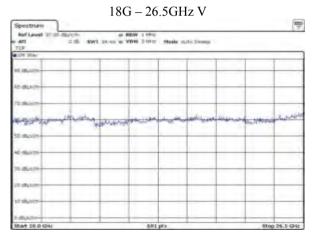


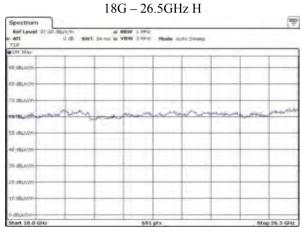
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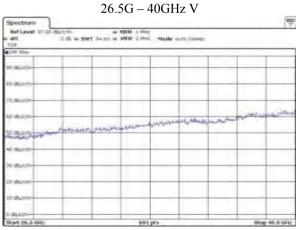
Unwanted emission 802.11a 5180 MHz (CH36) Antenna option 1

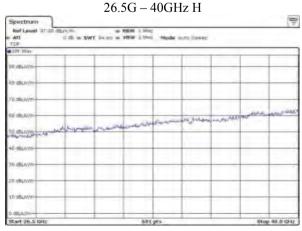








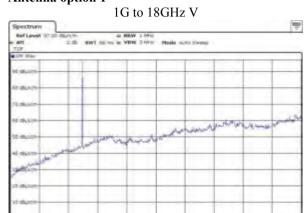




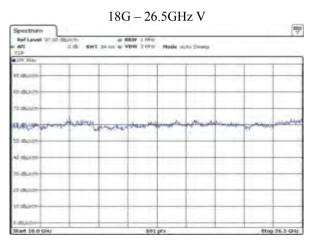


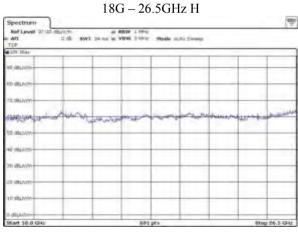
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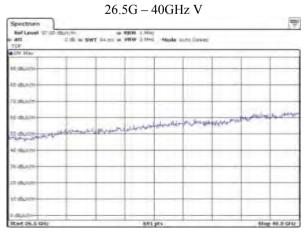
Unwanted emission 802.11a 5200 MHz (CH40) Antenna option 1

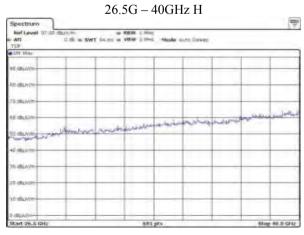










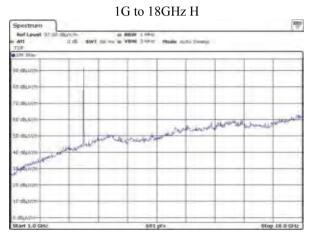


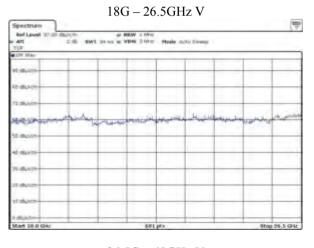


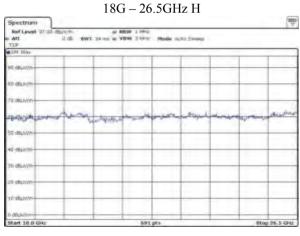
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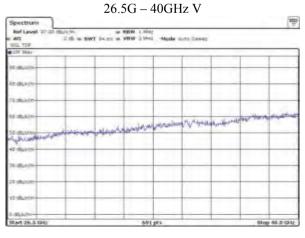
Unwanted emission 802.11a 5240 MHz (CH48) Antenna option 1

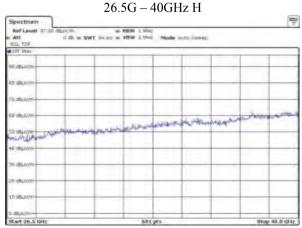












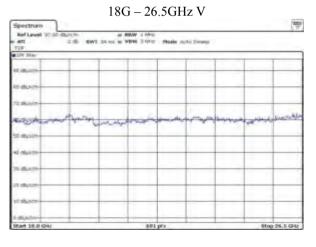


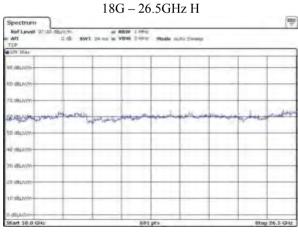
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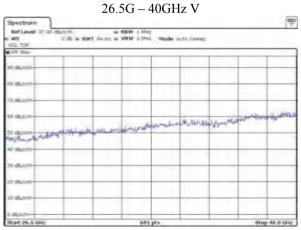
Unwanted emission 802.11a 5260 MHz (CH52) Antenna option 1

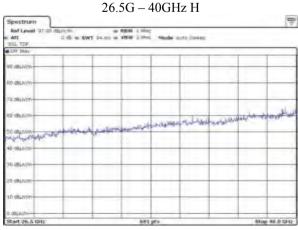












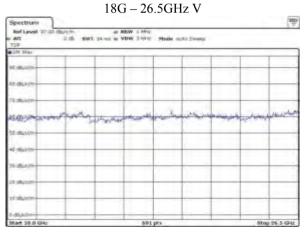


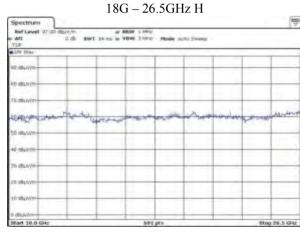
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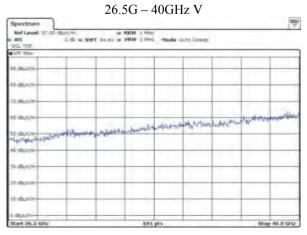
Unwanted emission 802.11a 5280 MHz (CH56) Antenna option 1

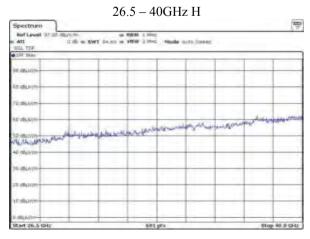










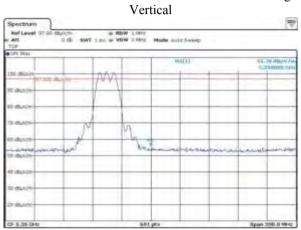


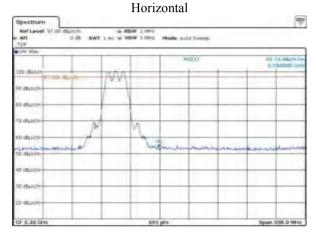


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Unwanted emission 802.11a 5320 MHz (CH64) Antenna option 1

Band edge measurement





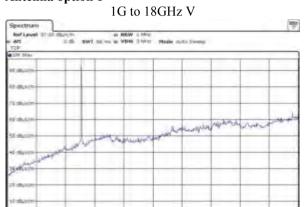
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	55.8	74.0	-18.2
5350.0	V	AV	1	45.3	54.0	-8.7
5350.0	Н	PK	1	53.7	74.0	-20.3
5350.0	Н	AV	1	PK < AV	54.0	N/A

Measured Level $[dB\mu V/m]$ = Reading of test receiver $[dB\mu V]$ + correction factor

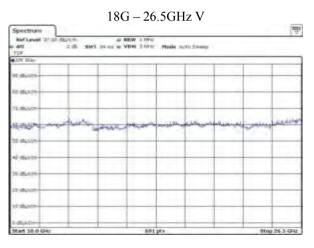


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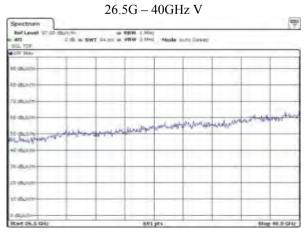
Unwanted emission 802.11a 5320 MHz (CH64) Antenna option 1

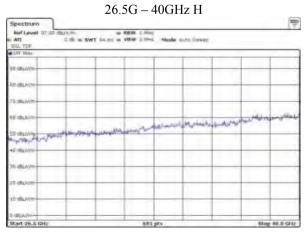












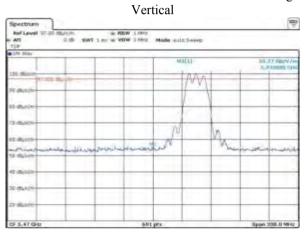
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

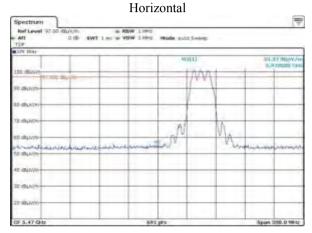


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Unwanted emission 802.11a 5500 MHz (CH100) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	53.4	74.0	-20.6
5470.0	V	AV	1	PK < AV	54.0	N/A
5470.0	Н	PK	1	53.3	74.0	-20.7
5470.0	Н	AV	1	PK < AV	54.0	N/A

Measured Level $[dB\mu V/m]$ = Reading of test receiver $[dB\mu V]$ + correction factor

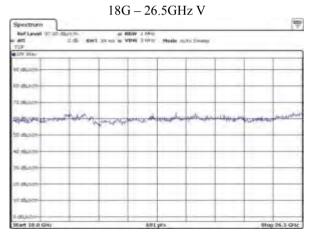


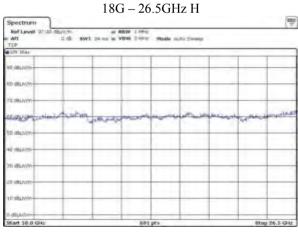
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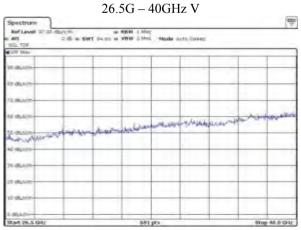
Unwanted emission 802.11a 5500 MHz (CH100) Antenna option 1

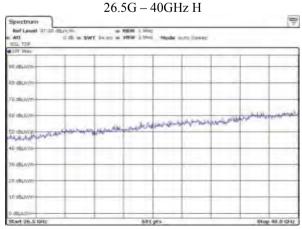








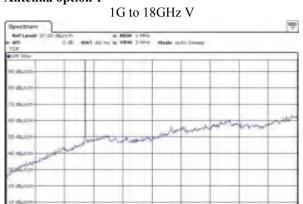




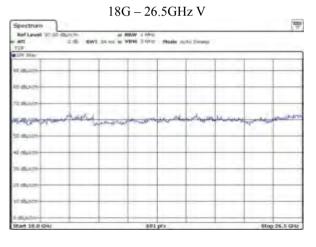


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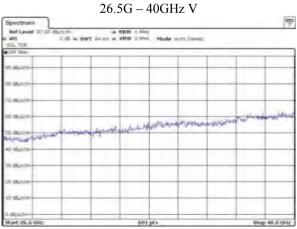
Unwanted emission 802.11a 5600 MHz (CH120) Antenna option 1

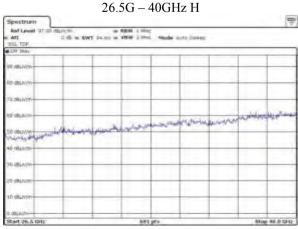










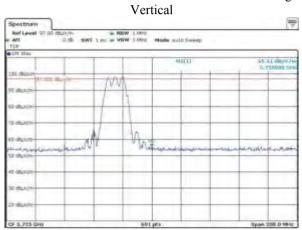


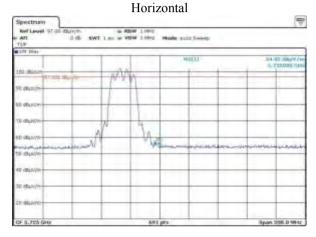


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Unwanted emission 802.11a 5700 MHz (CH140) Antenna option 1

Band edge measurement





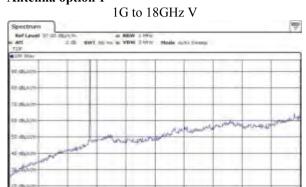
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	55.3	74.0	-18.7
5725.0	V	AV	1	45.6	54.0	-8.4
5725.0	Н	PK	1	54.9	74.0	-19.1
5725.0	Н	AV	1	45.5	54.0	-8.5

Measured Level $[dB\mu V/m]$ = Reading of test receiver $[dB\mu V]$ + correction factor

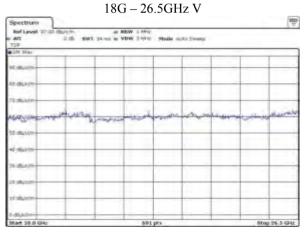


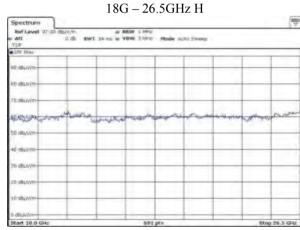
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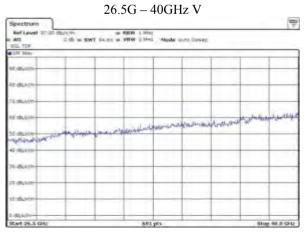
Unwanted emission 802.11a 5700 MHz (CH140) Antenna option 1

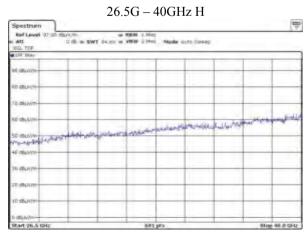










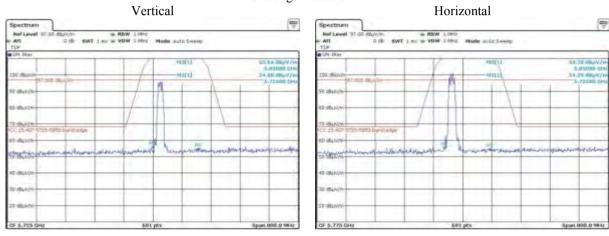




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Unwanted emission 802.11a 5745 MHz (CH149) Antenna option 1

Band edge measurement

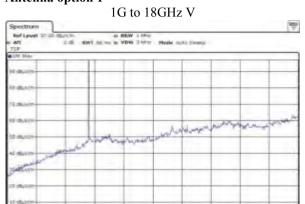


No Emission found outside the 5725 MHz - 5850 MHz.

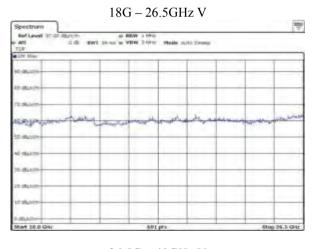


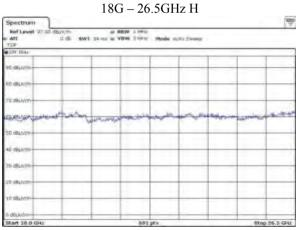
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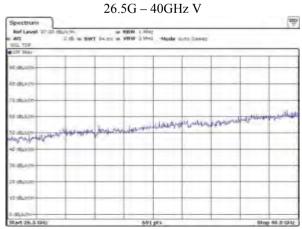
Unwanted emission 802.11a 5745 MHz (CH149) Antenna option 1

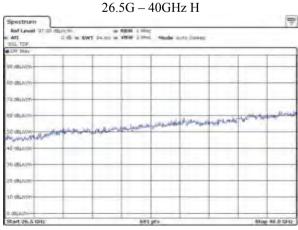








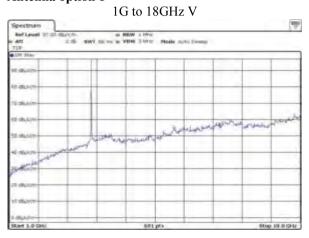




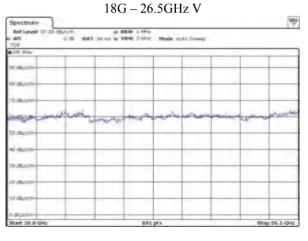


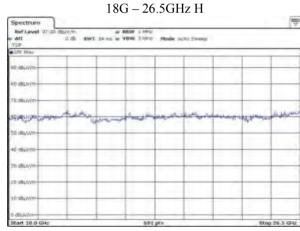
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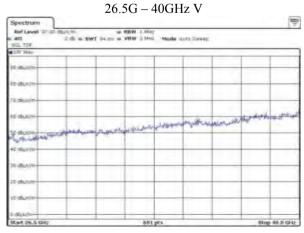
Unwanted emission 802.11a 5785 MHz (CH157) Antenna option 1

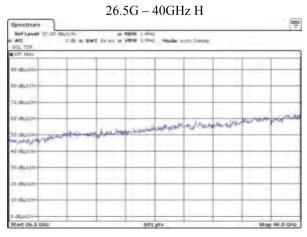










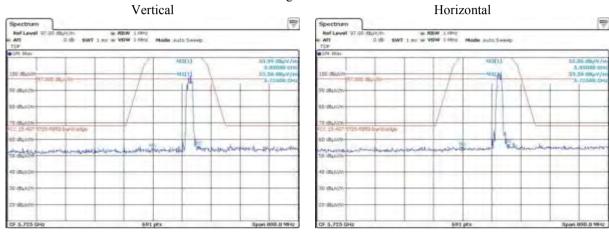




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Unwanted emission 802.11a 5825 MHz (CH165) Antenna option 1

Band edge measurement

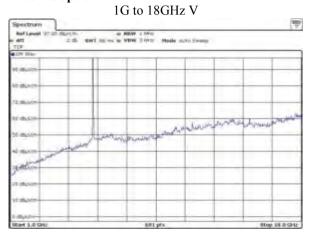


No Emission found outside the 5725 MHz - 5850 MHz.

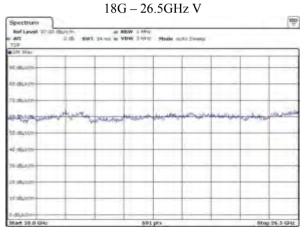


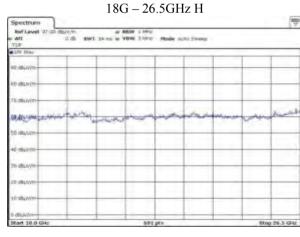
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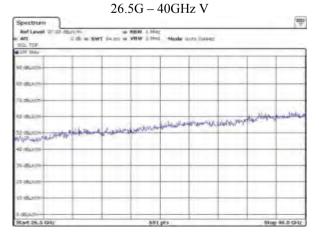
Unwanted emission 802.11a 5825 MHz (CH165) Antenna option 1

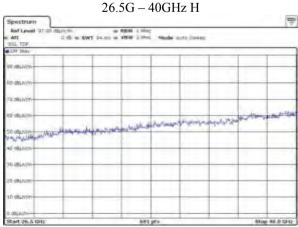










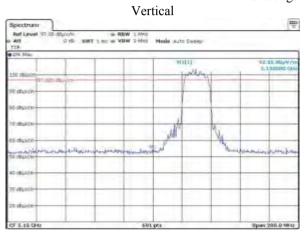


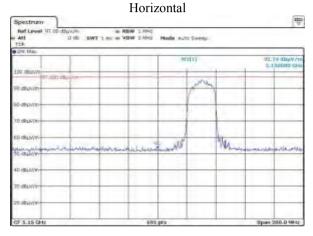


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Unwanted emission 802.11n HT20 5180 MHz (CH36) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	52.6	74.0	-21.4
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	Н	PK	1	52.7	74.0	-21.3
5150.0	Н	AV	1	PK < AV	54.0	N/A

Measured Level $[dB\mu V/m]$ = Reading of test receiver $[dB\mu V]$ + correction factor



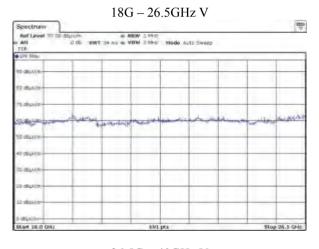
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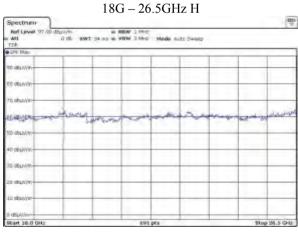
Unwanted emission

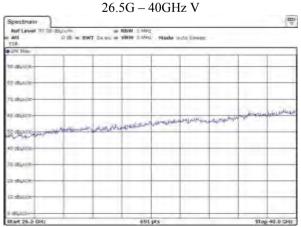
802.11n HT20 5180 MHz (CH36) Antenna option 1

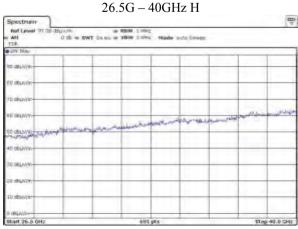












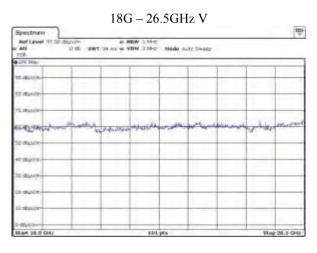


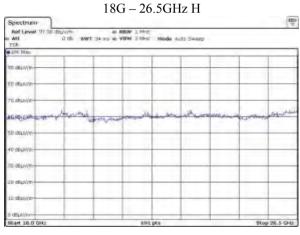
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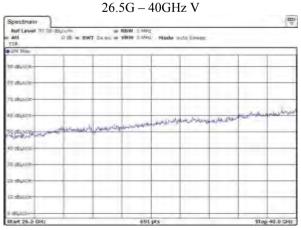
Unwanted emission 802.11n HT20 5200 MHz (CH40) Antenna option 1

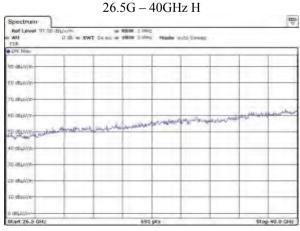








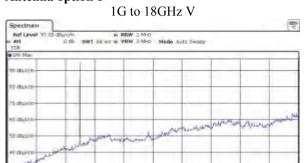




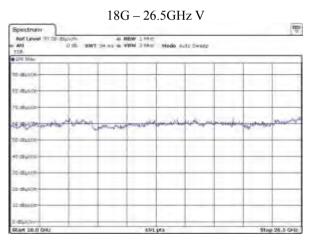


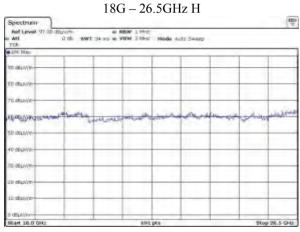
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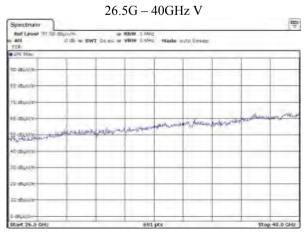
Unwanted emission 802.11n HT20 5240 MHz (CH48) Antenna option 1

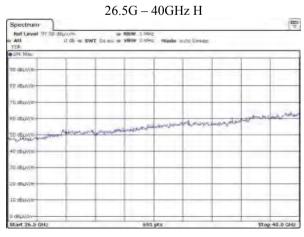












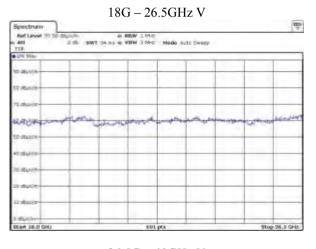


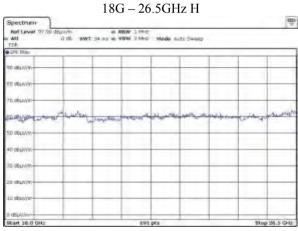
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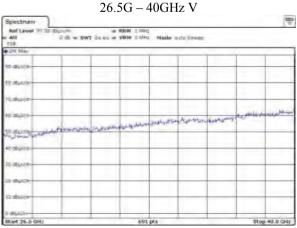
Unwanted emission 802.11n HT20 5260 MHz (CH52) Antenna option 1

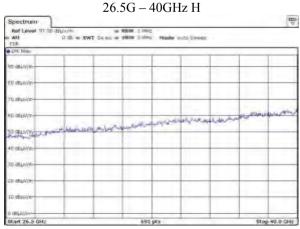








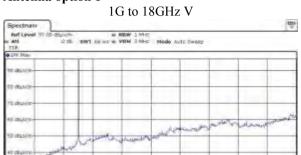






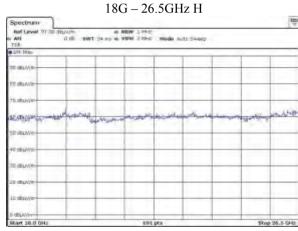
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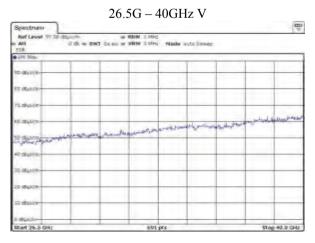
Unwanted emission 802.11n HT20 5280 MHz (CH56) Antenna option 1

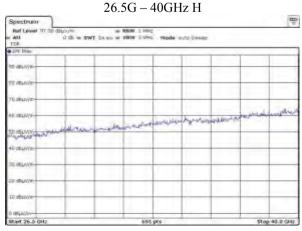










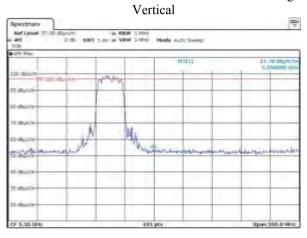


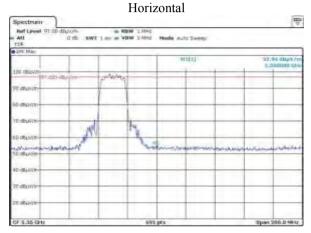


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Unwanted emission 802.11n HT20 5320 MHz (CH64) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	51.7	74.0	-22.3
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	Н	PK	1	52.9	74.0	-21.1
5350.0	Н	AV	1	PK < AV	54.0	N/A

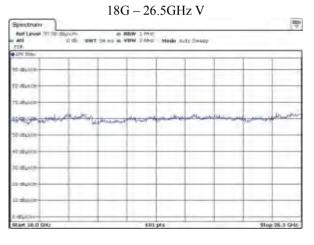


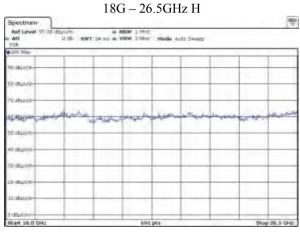
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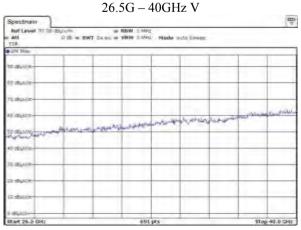
Unwanted emission 802.11n HT20 5320 MHz (CH64) Antenna option 1

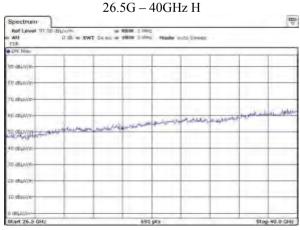










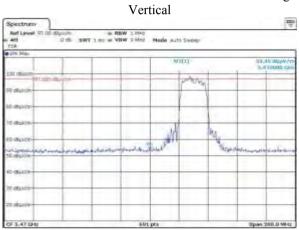


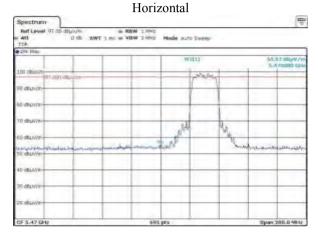


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Unwanted emission 802.11n HT20 5500 MHz (CH100) Antenna option 1

Band edge measurement



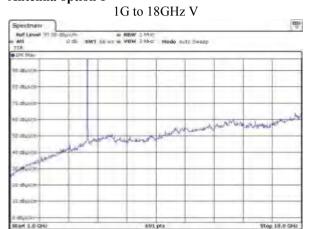


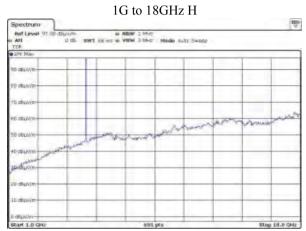
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	53.5	74.0	-20.5
5470.0	V	AV	1	PK < AV	54.0	N/A
5470.0	Н	PK	1	53.6	74.0	-20.4
5470.0	Н	AV	1	PK < AV	54.0	N/A



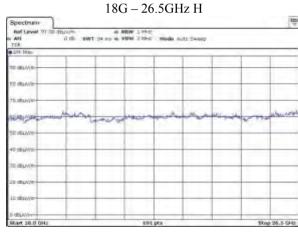
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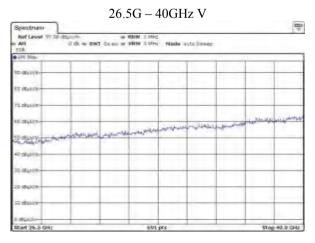
Unwanted emission 802.11n HT20 5500 MHz (CH100) Antenna option 1

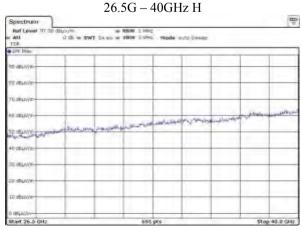








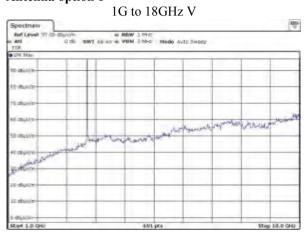


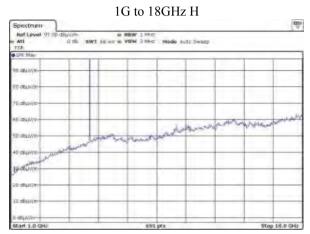


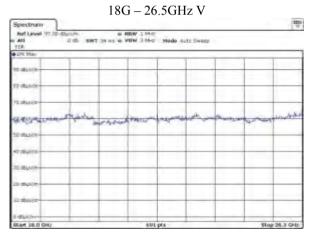


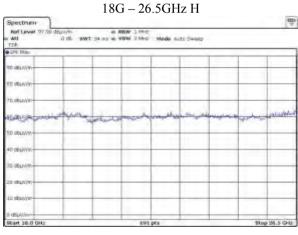
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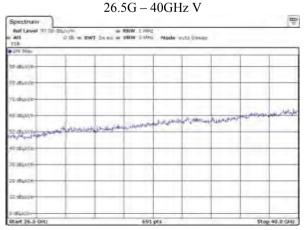
Unwanted emission 802.11n HT20 5600 MHz (CH120) Antenna option 1

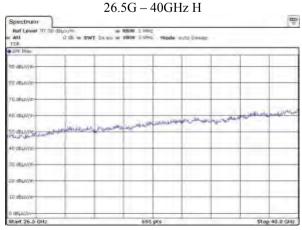










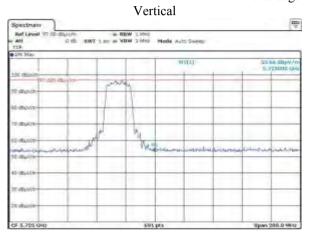


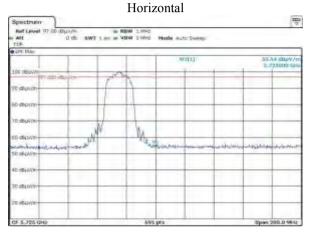


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Unwanted emission 802.11n HT20 5700 MHz (CH140) Antenna option 1

Band edge measurement



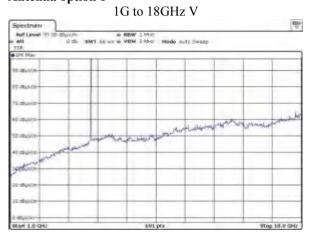


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	53.7	74.0	-20.3
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	Н	PK	1	53.5	74.0	-20.5
5725.0	Н	AV	1	PK < AV	54.0	N/A

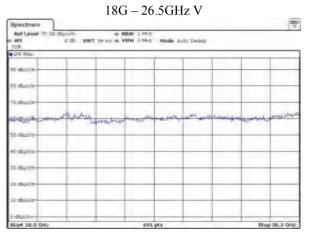


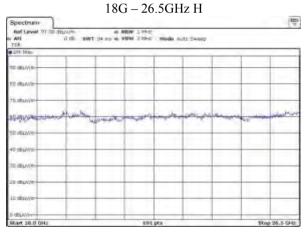
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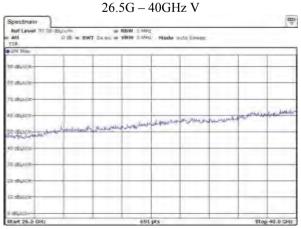
Unwanted emission 802.11n HT20 5700 MHz (CH140) Antenna option 1

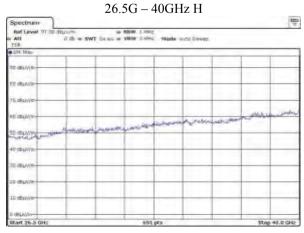










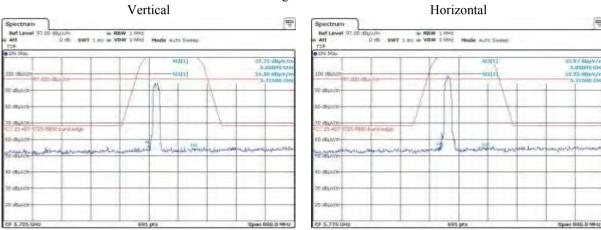




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Unwanted emission 802.11n HT20 5745 MHz (CH149) Antenna option 1

Band edge measurement

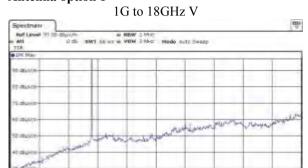


No Emission found outside the 5725 MHz - 5850 MHz.

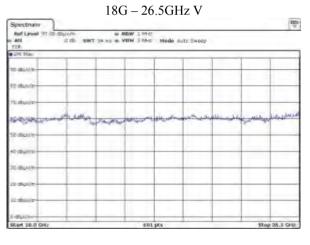


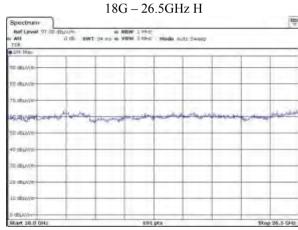
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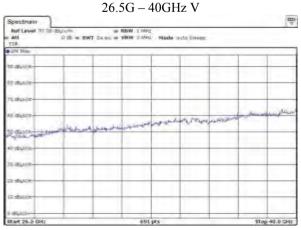
Unwanted emission 802.11n HT20 5745 MHz (CH149) Antenna option 1

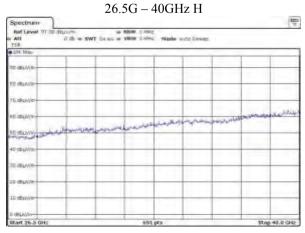








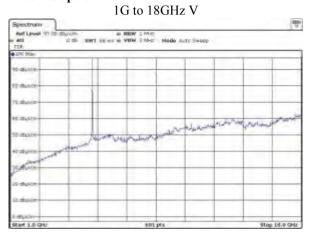




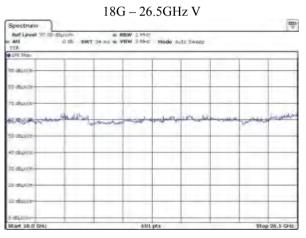


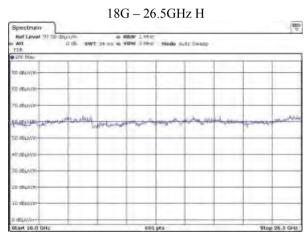
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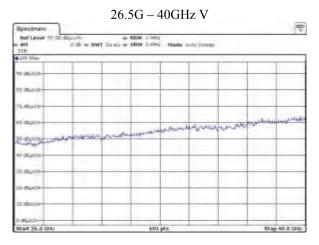
Unwanted emission 802.11n HT20 5785 MHz (CH157) Antenna option 1

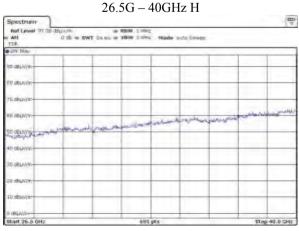










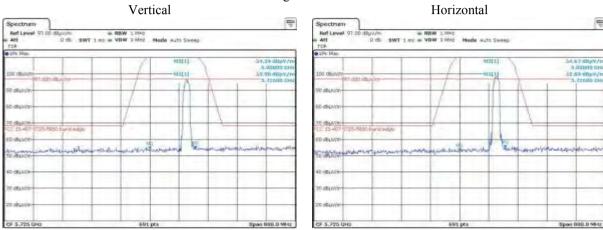




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Unwanted emission 802.11n HT20 5825 MHz (CH165) Antenna option 1

Band edge measurement

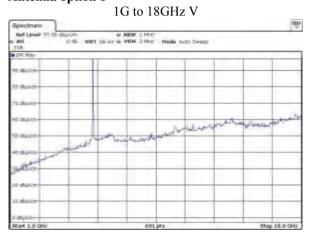


No Emission found outside the 5725 MHz - 5850 MHz.

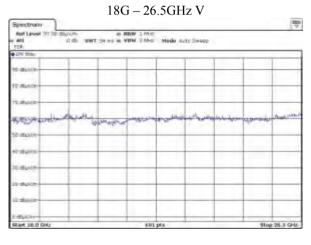


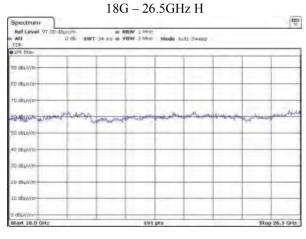
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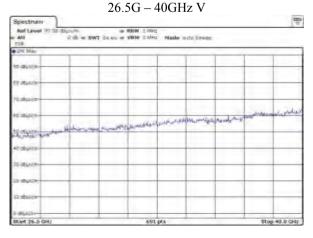
Unwanted emission 802.11n HT20 5825 MHz (CH165) Antenna option 1

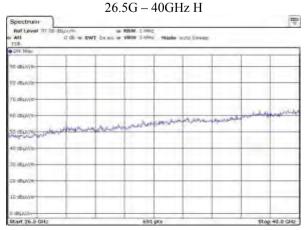










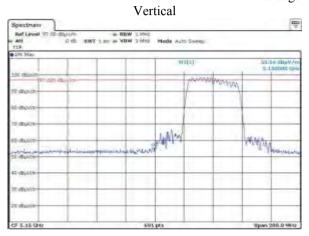


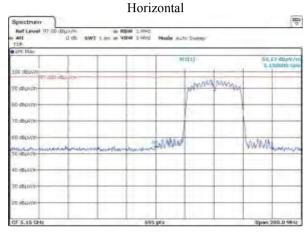


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Unwanted emission 802.11n HT40 5190 MHz (CH38) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	53.5	74.0	-20.5
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	Н	PK	1	53.2	74.0	-20.8
5150.0	Н	AV	1	PK < AV	54.0	N/A

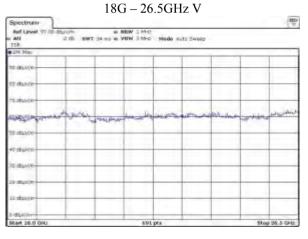


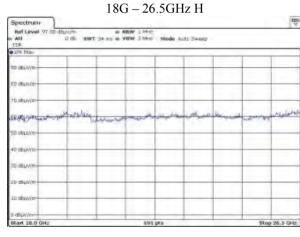
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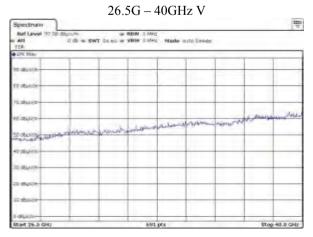
Unwanted emission 802.11n HT40 5190 MHz (CH38) Antenna option 1

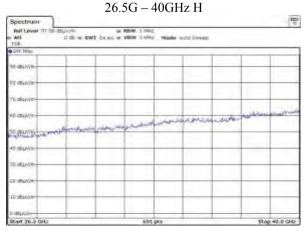












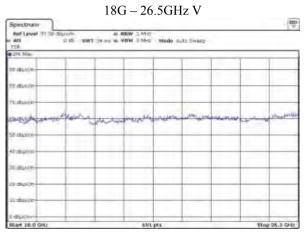


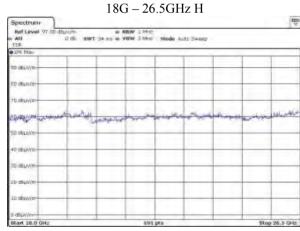
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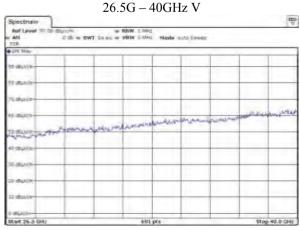
Unwanted emission 802.11n HT40 5230 MHz (CH46) Antenna option 1

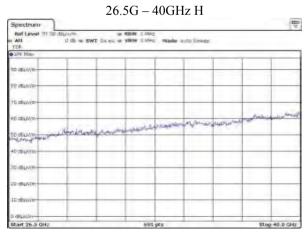












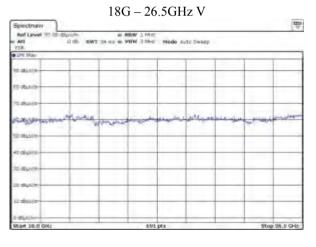


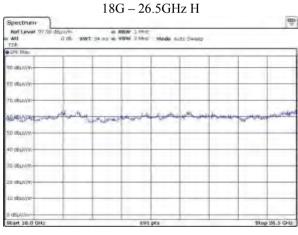
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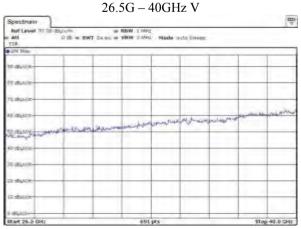
Unwanted emission 802.11n HT40 5270 MHz (CH54) Antenna option 1

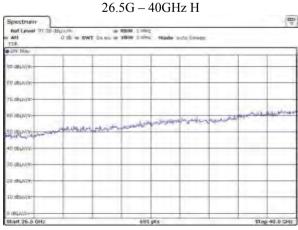










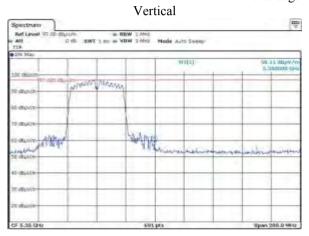


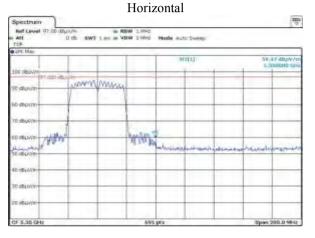


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Unwanted emission 802.11n HT40 5310 MHz (CH62) Antenna option 1

Band edge measurement



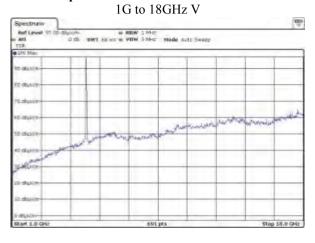


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	58.1	74.0	-15.9
5350.0	V	AV	1	47.6	54.0	-6.4
5350.0	Н	PK	1	59.5	74.0	-14.5
5350.0	Н	AV	1	46.0	54.0	-8.0

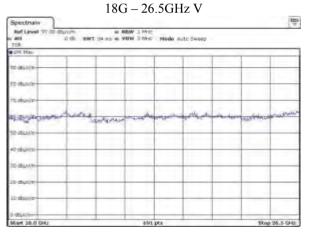


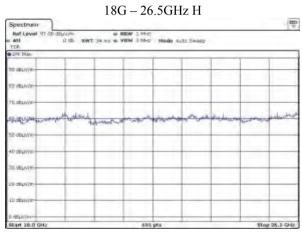
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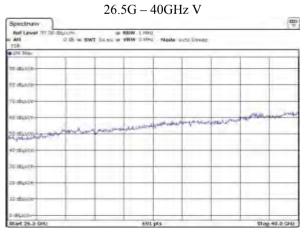
Unwanted emission 802.11n HT40 5310 MHz (CH62) Antenna option 1

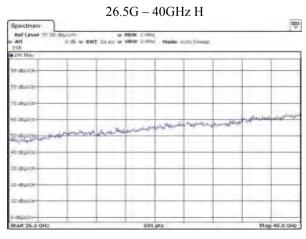










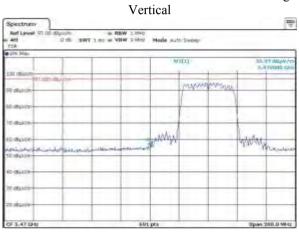


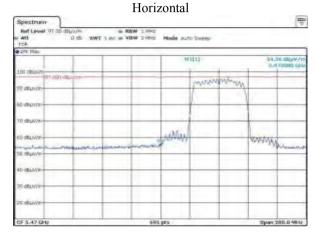


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Unwanted emission 802.11n HT40 5510 MHz (CH102) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	56.0	74.0	-18.0
5470.0	V	AV	1	46.1	54.0	-7.9
5470.0	Н	PK	1	54.3	74.0	-19.7
5470.0	Н	AV	1	44.2	54.0	-9.8

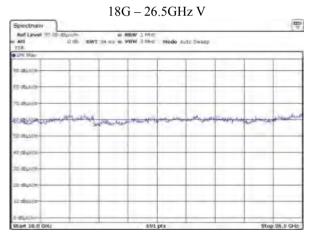


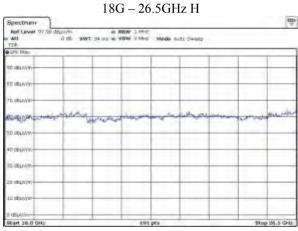
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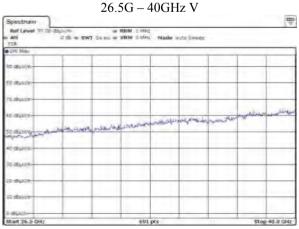
Unwanted emission 802.11n HT40 5510 MHz (CH102) Antenna option 1

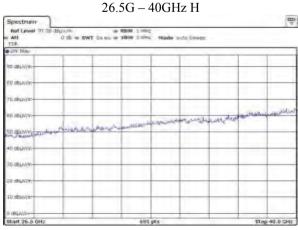












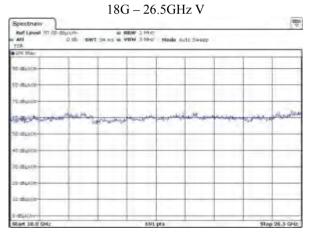


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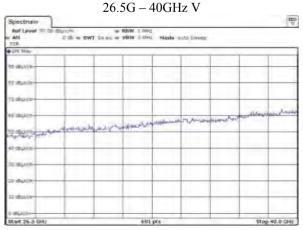
Unwanted emission 802.11n HT40 5590 MHz (CH118) Antenna option 1

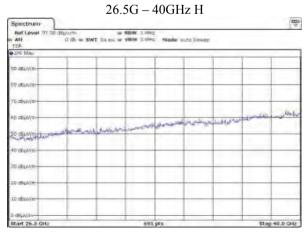










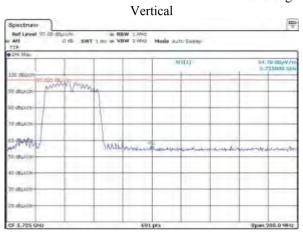


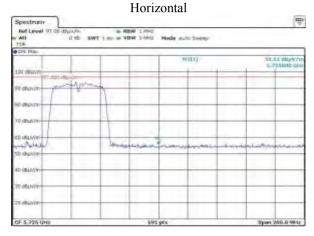


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Unwanted emission 802.11n HT40 5670 MHz (CH134) Antenna option 1

Band edge measurement



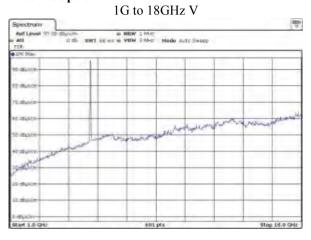


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	54.7	74.0	-19.3
5725.0	V	AV	1	44.8	54.0	-9.2
5725.0	Н	PK	1	55.5	74.0	-18.5
5725.0	Н	AV	1	45.1	54.0	-8.9

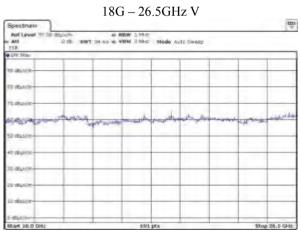


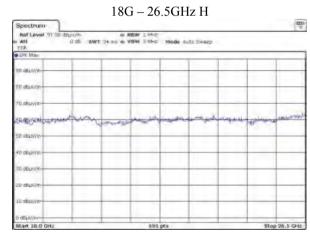
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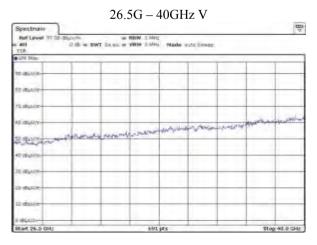
Unwanted emission 802.11n HT40 5670 MHz (CH134) Antenna option 1

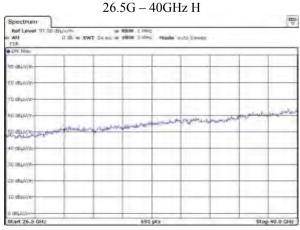










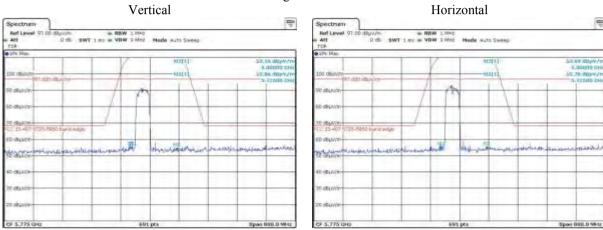




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Unwanted emission 802.11n HT40 5755 MHz (CH151) Antenna option 1

Band edge measurement

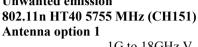


No Emission found outside the 5725 MHz - 5850 MHz.



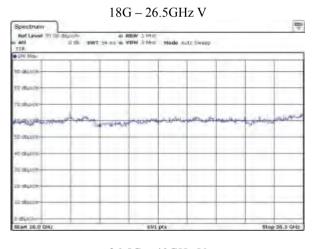
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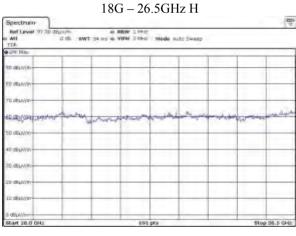
Unwanted emission

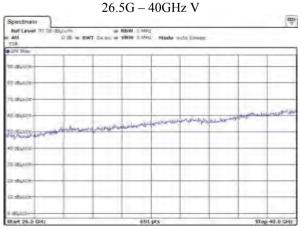


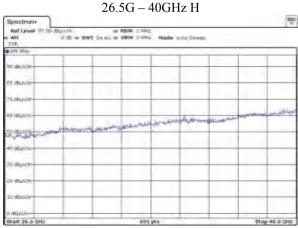










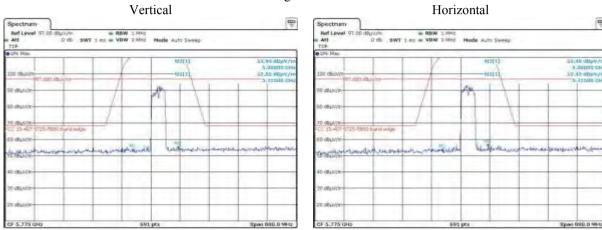




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Unwanted emission 802.11n HT40 5795 MHz (CH159) Antenna option 1

Band edge measurement

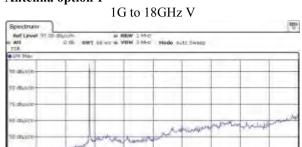


No Emission found outside the 5725 MHz - 5850 MHz.

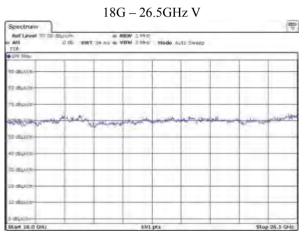


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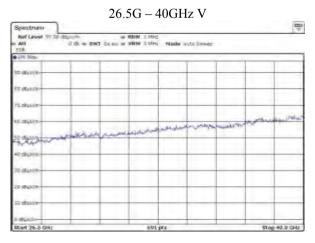
Unwanted emission 802.11n HT40 5795 MHz (CH159) Antenna option 1

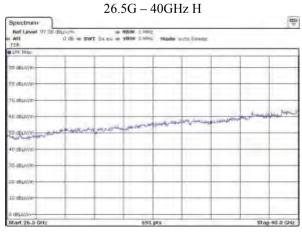












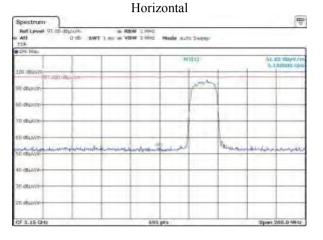


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Unwanted emission 802.11ac VHT20 5180 MHz (CH36) Antenna option 1

Band edge measurement

Vertical Spectrum Ref Lipos 97 20 555400 Att 10 SWY 1 SE VEW 3 Mo2 Mode Auto Sweet The 20 Miles WILLI Statement Inc. 100 55415



Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	54.3	74.0	-19.7
5150.0	V	AV	1	44.1	54.0	-9.9
5150.0	Н	PK	1	51.8	74.0	-22.2
5150.0	Н	AV	1	PK < AV	54.0	N/A

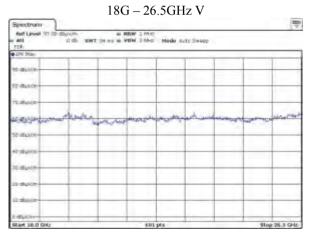


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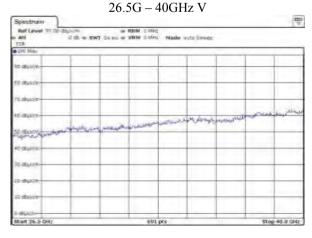
Unwanted emission 802.11ac VHT20 5180 MHz (CH36) Antenna option 1

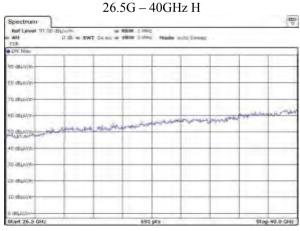














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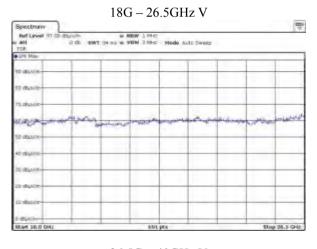
Unwanted emission 802.11ac VHT20 5200 MHz (CH40)

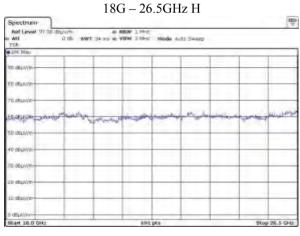
Antenna option 1 1G to 18GHz V

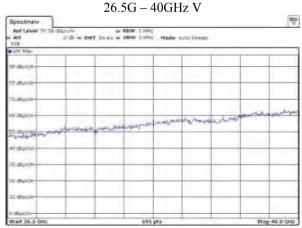


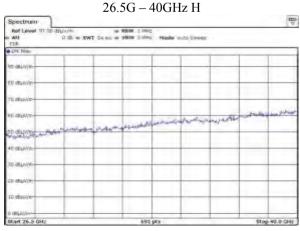


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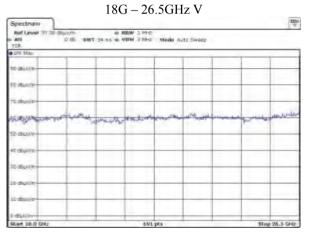
Unwanted emission 802.11ac VHT20 5240 MHz (CH48)

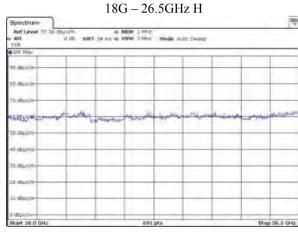
Antenna option 1

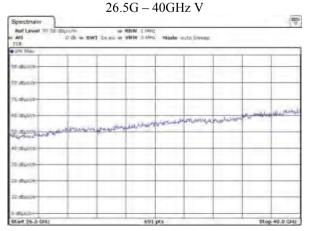


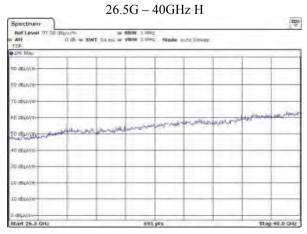


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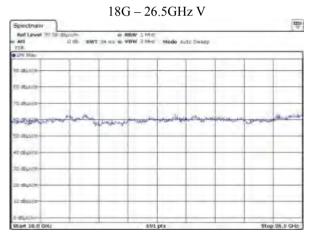
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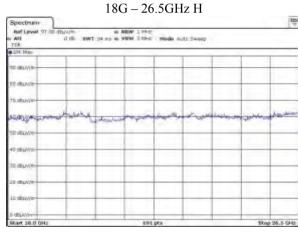
Unwanted emission 802.11ac VHT20 5260 MHz (CH52)

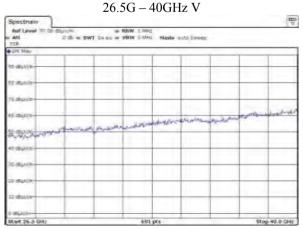
Antenna option 1

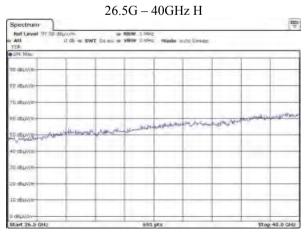








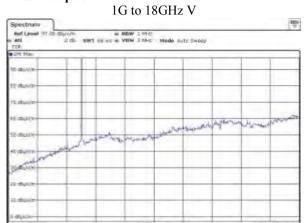




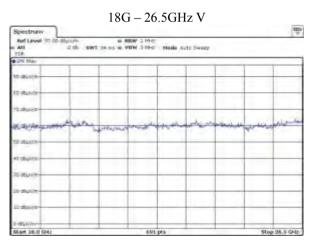


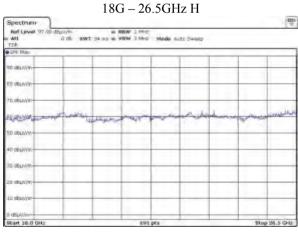
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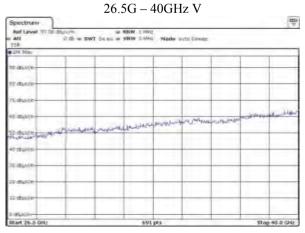
Unwanted emission 802.11ac VHT20 5280 MHz (CH56) Antenna option 1

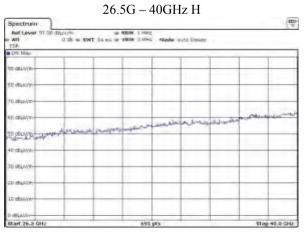










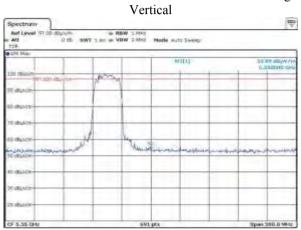


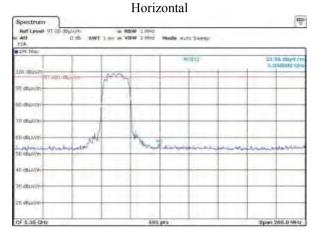


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Unwanted emission 802.11ac VHT20 5320 MHz (CH64) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	53.9	74.0	-20.1
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	Н	PK	1	54.0	74.0	-20.0
5350.0	Н	AV	1	50.9	54.0	-3.1

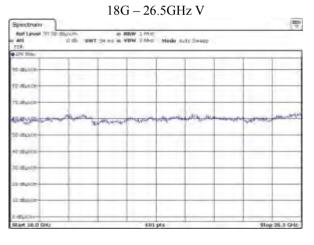


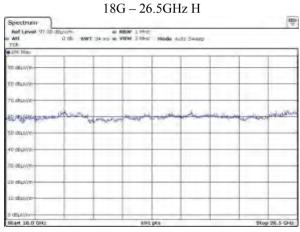
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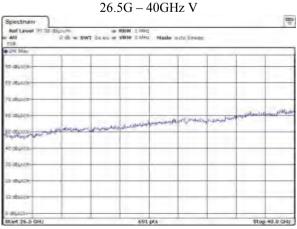
Unwanted emission 802.11ac VHT20 5320 MHz (CH64) Antenna option 1

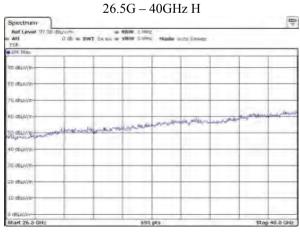










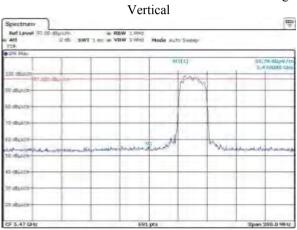


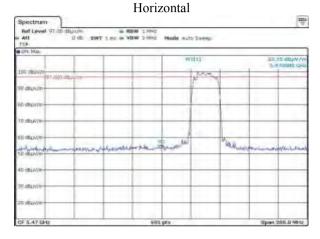


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Unwanted emission 802.11ac VHT20 5500 MHz (CH100) Antenna option 1

Band edge measurement



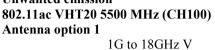


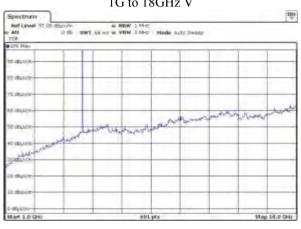
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	53.8	74.0	-20.2
5470.0	V	AV	1	PK < AV	54.0	N/A
5470.0	Н	PK	1	53.8	74.0	-20.2
5470.0	Н	AV	1	PK < AV	54.0	N/A



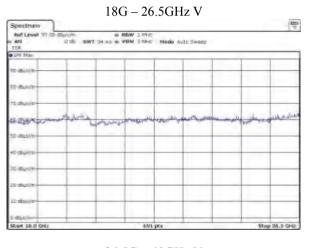
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Unwanted emission

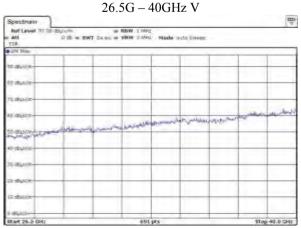


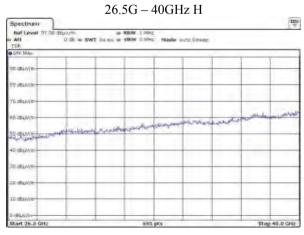












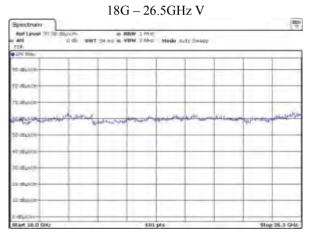


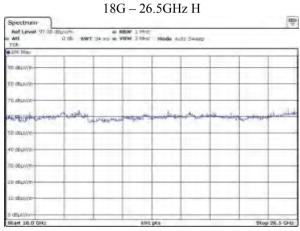
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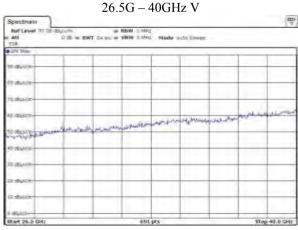
Unwanted emission 802.11ac VHT20 5600 MHz (CH120) Antenna option 1

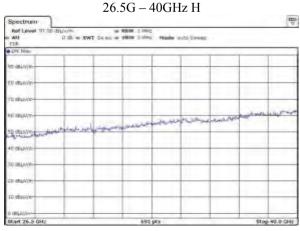










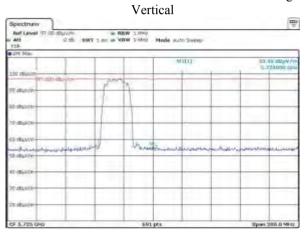


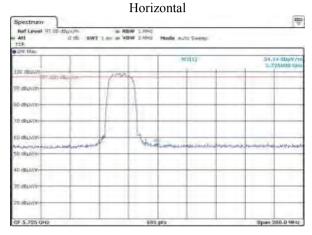


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Unwanted emission 802.11ac VHT20 5700 MHz (CH140) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	53.5	74.0	-20.5
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	Н	PK	1	54.1	74.0	-19.9
5725.0	Н	AV	1	45.7	54.0	-8.3

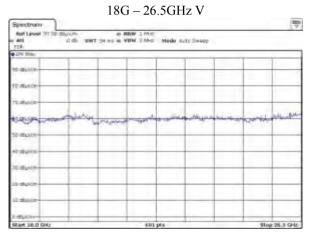


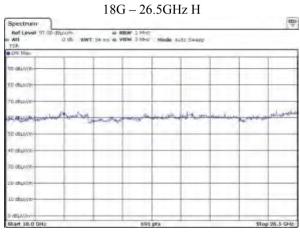
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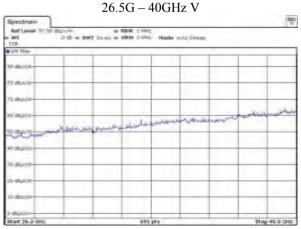
Unwanted emission 802.11ac VHT20 5700 MHz (CH140) Antenna option 1

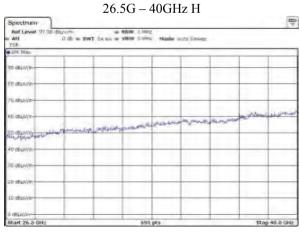










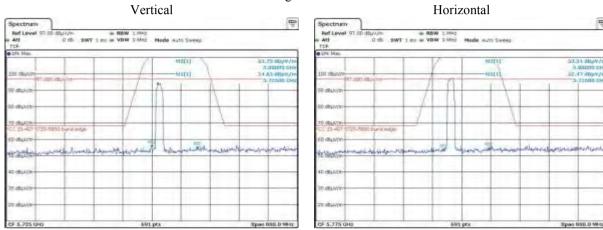




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Unwanted emission 802.11ac VHT20 5745 MHz (CH149) Antenna option 1

Band edge measurement



No Emission found outside the 5725 MHz - 5850 MHz.

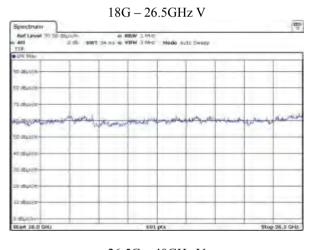


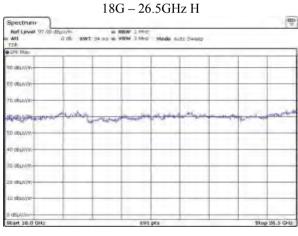
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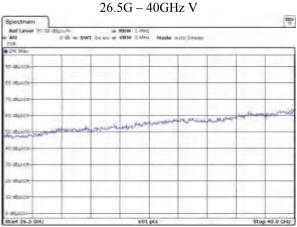
Unwanted emission 802.11ac VHT20 5745 MHz (CH149) Antenna option 1

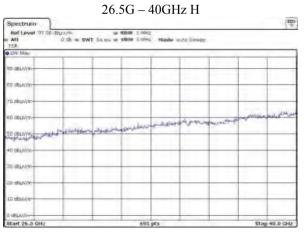












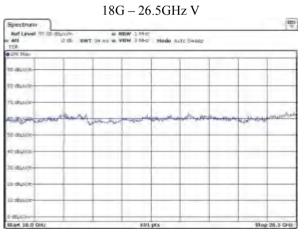


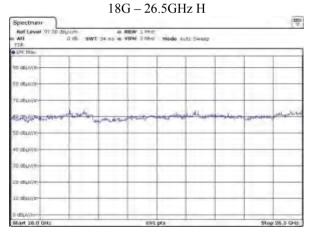
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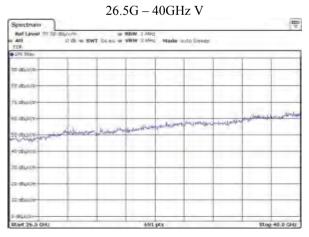
Unwanted emission 802.11ac VHT20 5785 MHz (CH157) Antenna option 1

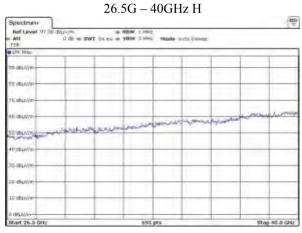










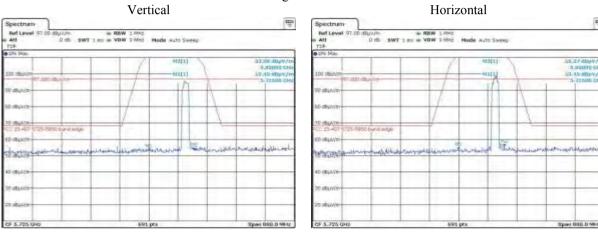




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Unwanted emission 802.11ac VHT20 5825 MHz (CH165) Antenna option 1

Band edge measurement



No Emission found outside the 5725 MHz - 5850 MHz.

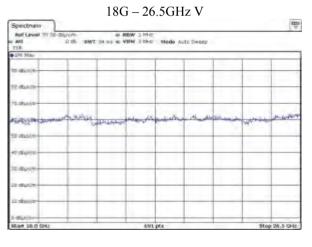


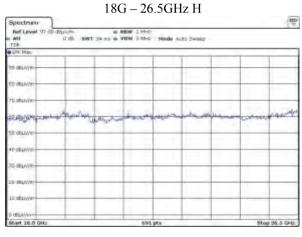
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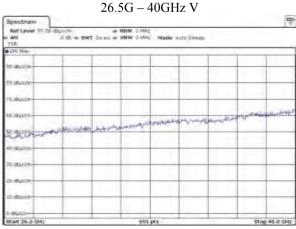
Unwanted emission 802.11ac VHT20 5825 MHz (CH165) Antenna option 1

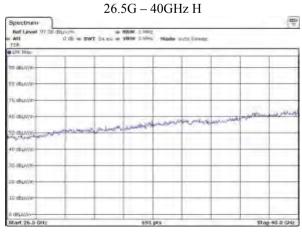










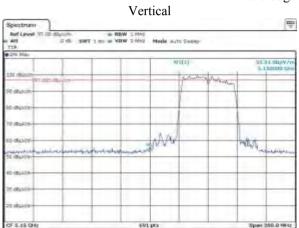


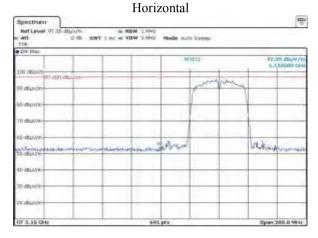


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Unwanted emission 802.11ac VHT40 5190 MHz (CH38) Antenna option 1

Band edge measurement



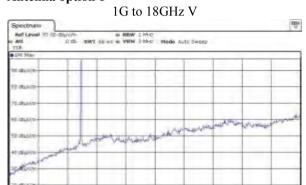


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	53.5	74.0	-20.5
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	Н	PK	1	52.4	74.0	-21.6
5150.0	Н	AV	1	PK < AV	54.0	N/A

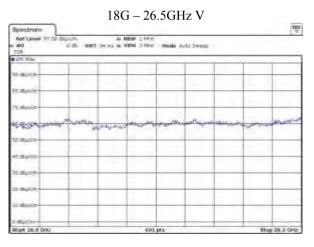


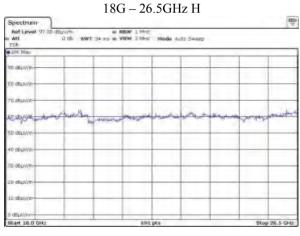
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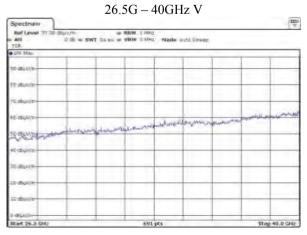
Unwanted emission 802.11ac VHT40 5190 MHz (CH38) Antenna option 1

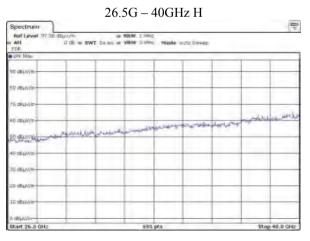








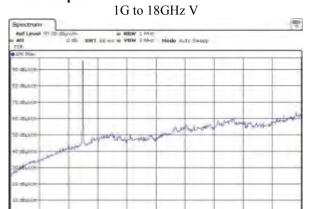




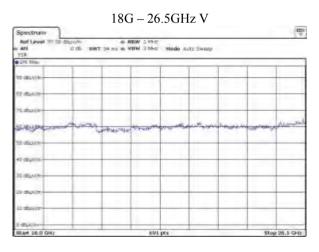


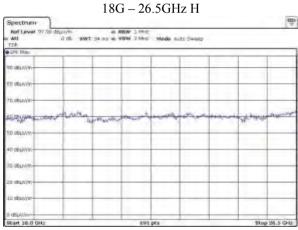
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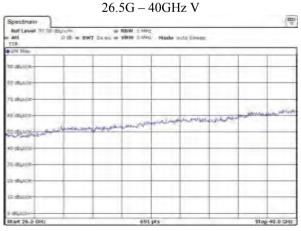
Unwanted emission 802.11ac VHT40 5230 MHz (CH46) Antenna option 1

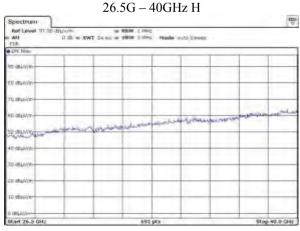












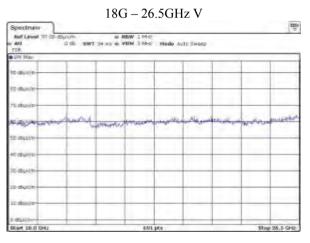


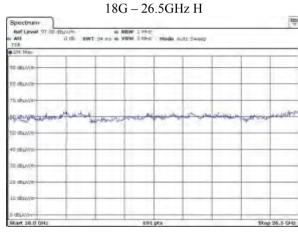
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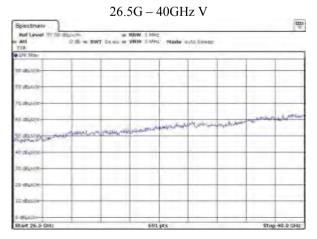
Unwanted emission 802.11ac VHT40 5270 MHz (CH54) Antenna option 1

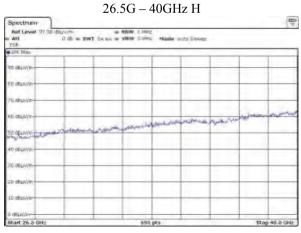










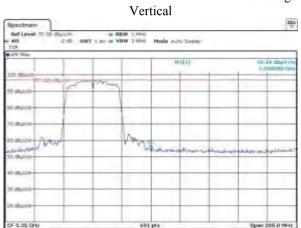


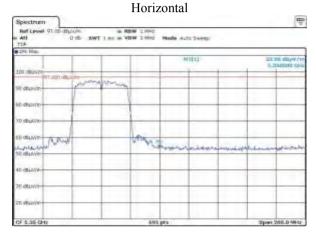


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Unwanted emission 802.11ac VHT40 5310 MHz (CH62) Antenna option 1

Band edge measurement





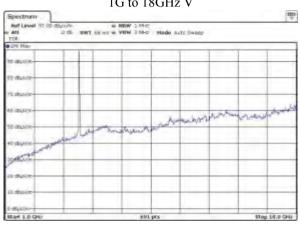
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	55.3	74.0	-18.7
5350.0	V	AV	1	45.6	54.0	-8.4
5350.0	Н	PK	1	53.9	74.0	-20.1
5350.0	Н	AV	1	PK < AV	54.0	N/A



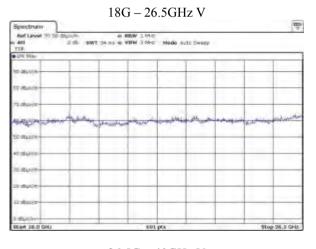
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Unwanted emission

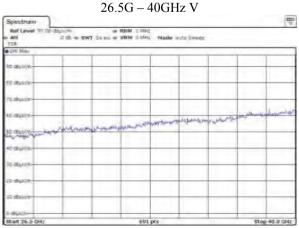
802.11ac VHT40 5310 MHz (CH62) Antenna option 1 1G to 18GHz V

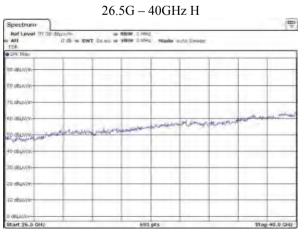










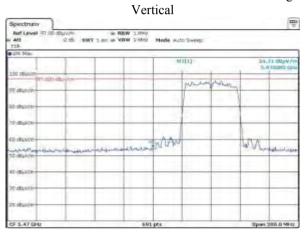


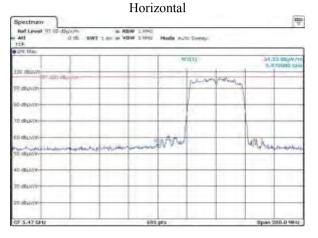


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Unwanted emission 802.11ac VHT40 5510 MHz (CH102) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	54.7	74.0	-19.3
5470.0	V	AV	1	46.0	54.0	-8.0
5470.0	Н	PK	1	54.2	74.0	-19.8
5470.0	Н	AV	1	45.2	54.0	-8.8

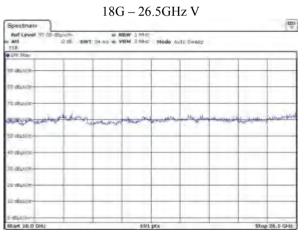


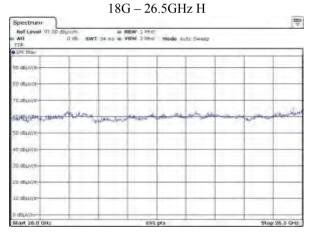
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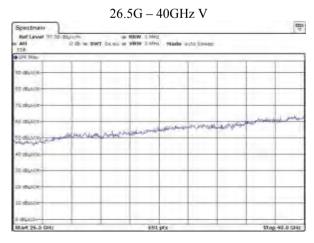
Unwanted emission 802.11ac VHT40 5510 MHz (CH102) Antenna option 1

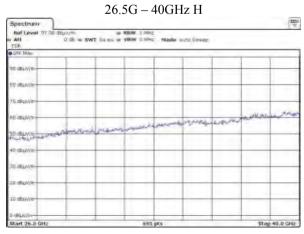














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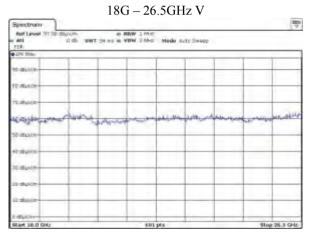
Unwanted emission

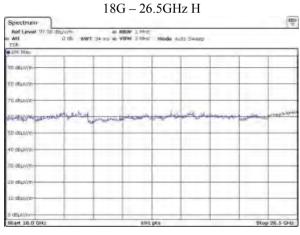
802.11ac VHT40 5590 MHz (CH118) Antenna option 1

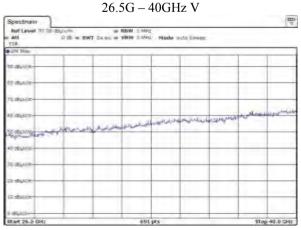


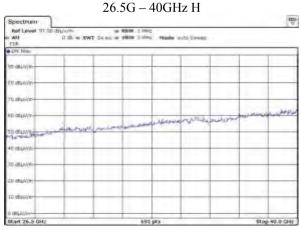


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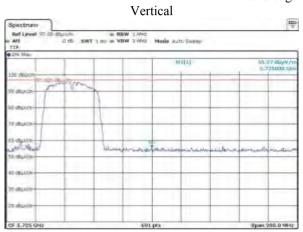


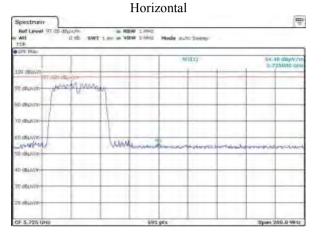


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Unwanted emission 802.11ac VHT40 5670 MHz (CH134) Antenna option 1

Band edge measurement



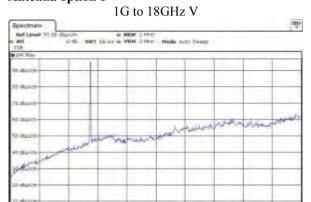


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	55.3	74.0	-18.7
5725.0	V	AV	1	45.8	54.0	-8.2
5725.0	Н	PK	1	54.5	74.0	-19.5
5725.0	Н	AV	1	46.0	54.0	-8.0

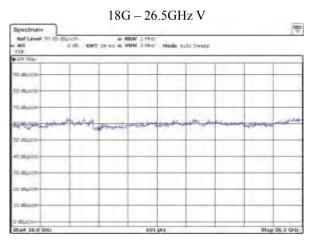


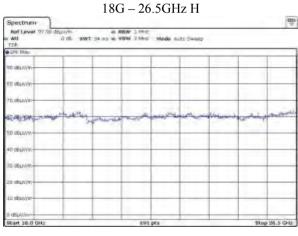
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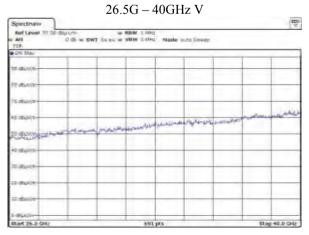
Unwanted emission 802.11ac VHT40 5670 MHz (CH134) Antenna option 1

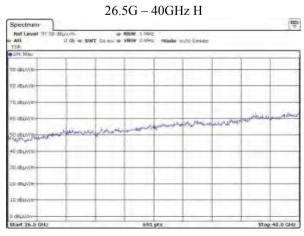










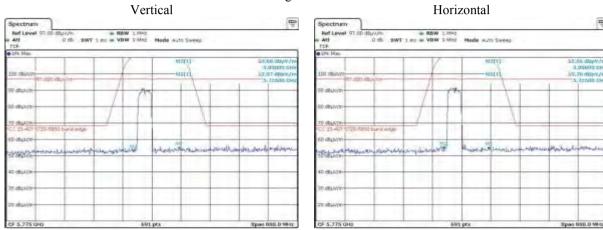




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Unwanted emission 802.11ac VHT40 5755 MHz (CH151) Antenna option 1

Band edge measurement



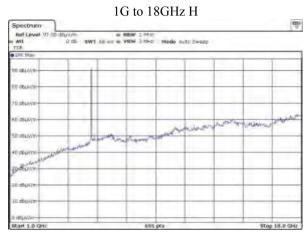
No Emission found outside the 5725 MHz - 5850 MHz.

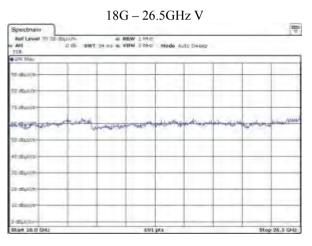


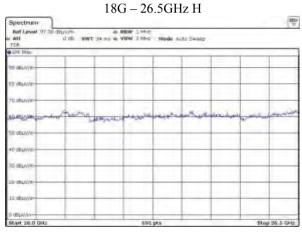
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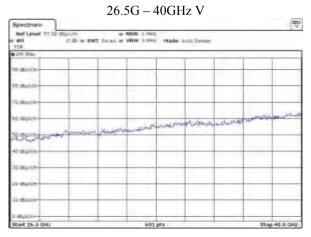
Unwanted emission 802.11ac VHT40 5755 MHz (CH151) Antenna option 1

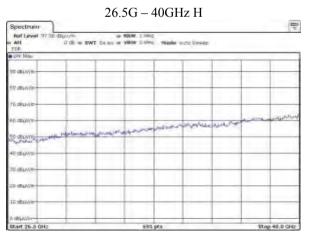










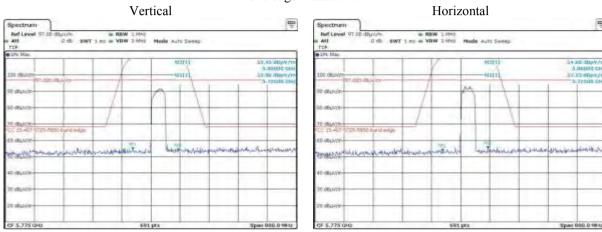




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Unwanted emission 802.11ac VHT40 5795 MHz (CH159) Antenna option 1

Band edge measurement

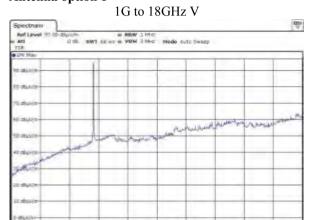


No Emission found outside the 5725 MHz - 5850 MHz.

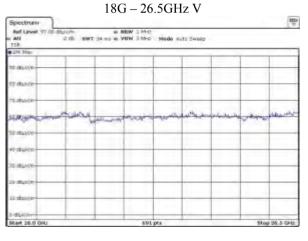


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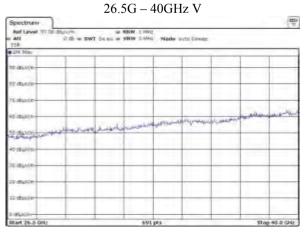
Unwanted emission 802.11ac VHT40 5795 MHz (CH159) Antenna option 1

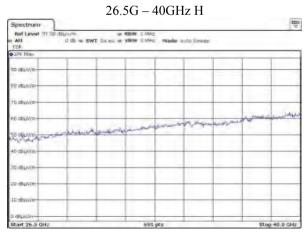










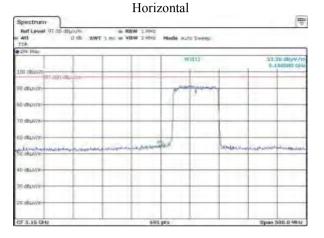




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Unwanted emission 802.11ac VHT80 5210 MHz (CH42) Antenna option 1

Band edge measurement



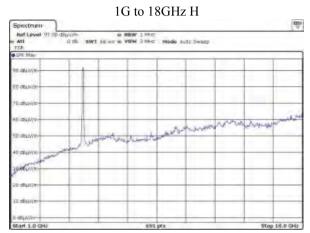
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	53.4	74.0	-20.6
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	Н	PK	1	53.3	74.0	-20.7
5150.0	Н	AV	1	PK < AV	54.0	N/A

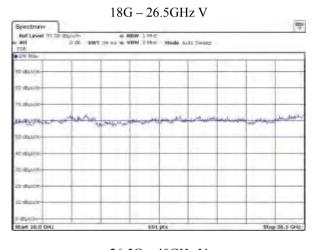


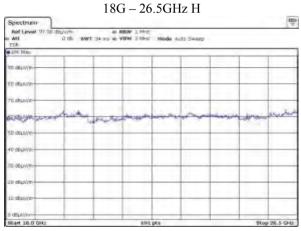
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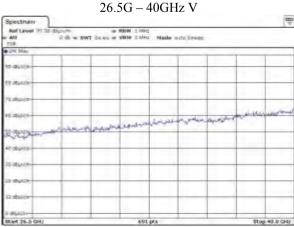
Unwanted emission 802.11ac VHT80 5210 MHz (CH42) Antenna option 1











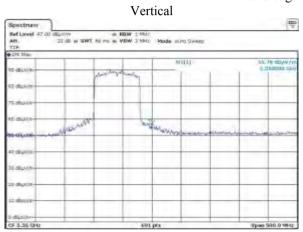


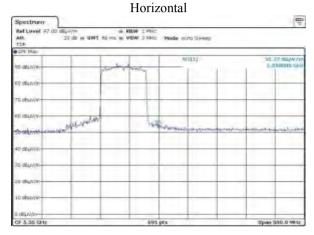


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Unwanted emission 802.11ac VHT80 5290 MHz (CH58) Antenna option 1

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	55.8	74.0	-18.2
5350.0	V	AV	1	46.1	54.0	-7.9
5350.0	Н	PK	1	52.8	74.0	-21.2
5350.0	Н	AV	1	PK < AV	54.0	N/A



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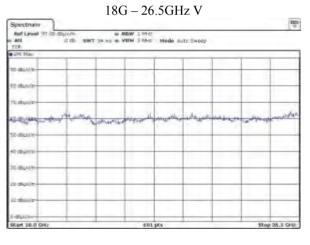
Unwanted emission

802.11ac VHT80 5290 MHz (CH58) Antenna option 1

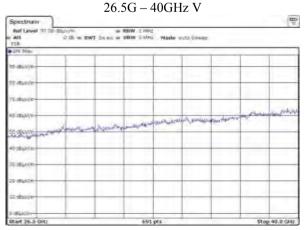


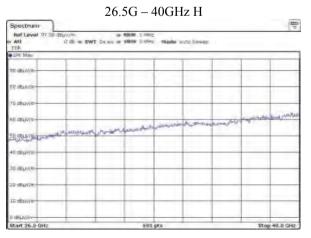


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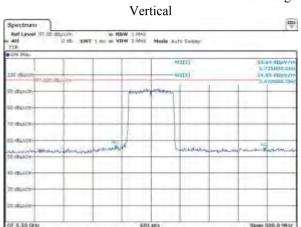


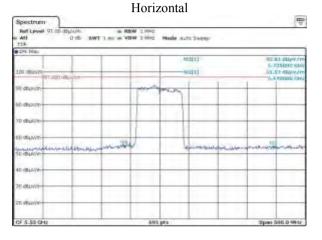


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Unwanted emission 802.11ac VHT80 5530 MHz (CH106) Antenna option 1

Band edge measurement



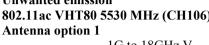


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	54.9	74.0	-19.1
5470.0	V	AV	1	45.1	54.0	-8.9
5470.0	Н	PK	1	53.6	74.0	-20.4
5470.0	Н	AV	1	PK < AV	54.0	N/A
5725.0	V	PK	1	53.6	74.0	-20.4
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	Н	PK	1	52.8	74.0	-21.2
5725.0	Н	AV	1	PK < AV	54.0	N/A



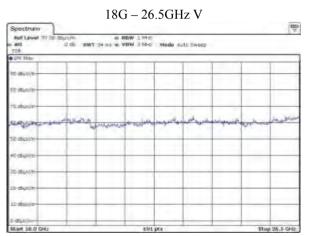
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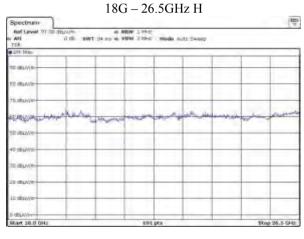
Unwanted emission 802.11ac VHT80 5530 MHz (CH106)

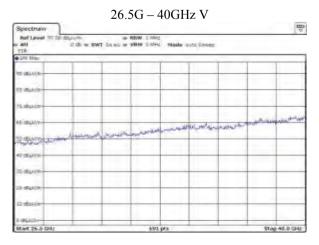


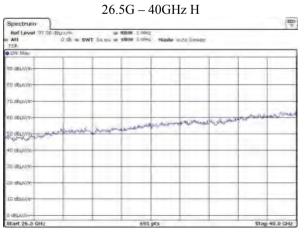










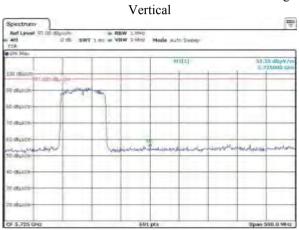


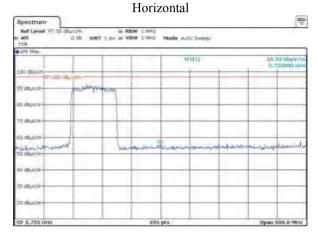


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Unwanted emission 802.11ac VHT80 5610 MHz (CH122) Antenna option 1

Band edge measurement





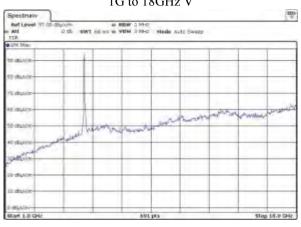
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	55.3	74.0	-18.7
5725.0	V	AV	1	45.9	54.0	-8.1
5725.0	Н	PK	1	53.5	74.0	-20.5
5725.0	Н	AV	1	PK < AV	54.0	N/A



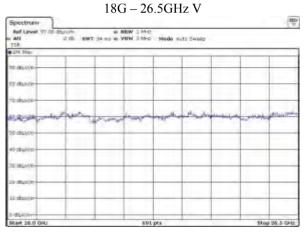
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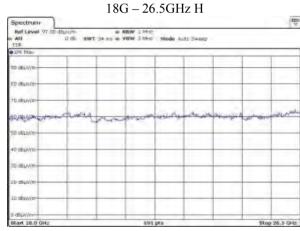
Unwanted emission 802.11ac VHT80 5610 MHz (CH122)

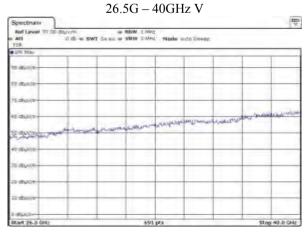


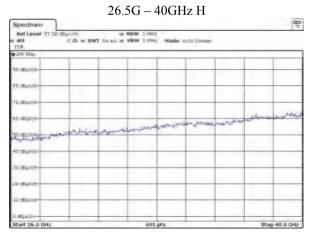










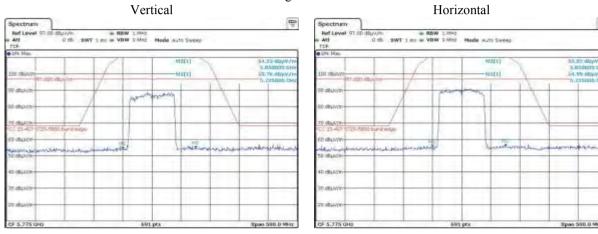




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Unwanted emission 802.11ac VHT80 5775 MHz (CH155) Antenna option 1

Band edge measurement

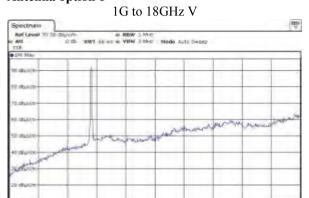


No Emission found outside the 5725 MHz - 5850 MHz.

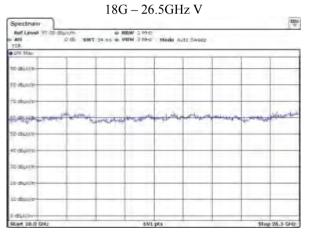


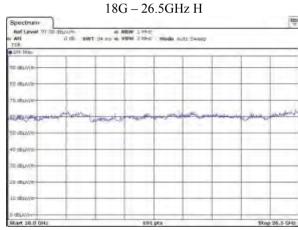
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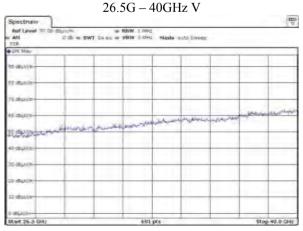
Unwanted emission 802.11ac VHT80 5775 MHz (CH155) Antenna option 1

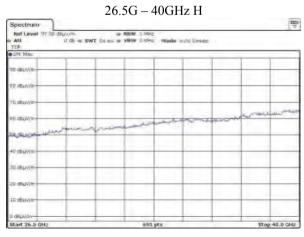










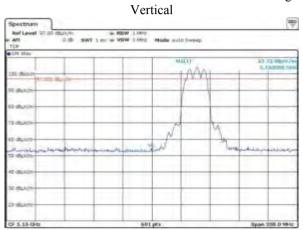


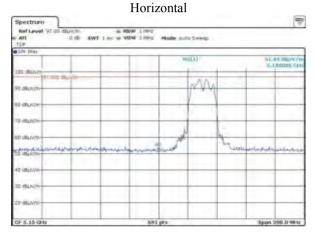


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Unwanted emission 802.11a 5180 MHz (CH36) Antenna option 2

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	52.7	74.0	-21.3
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	Н	PK	1	51.8	74.0	-22.2
5150.0	Н	AV	1	PK < AV	54.0	N/A



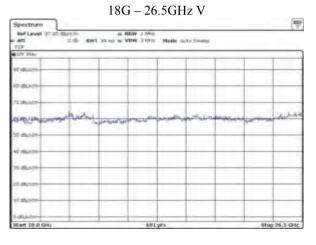
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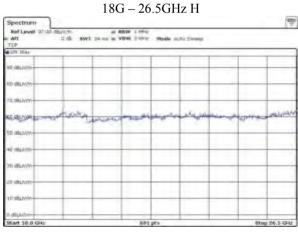
Unwanted emission

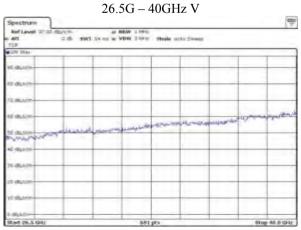
802.11a 5180 MHz (CH36) Antenna option 2

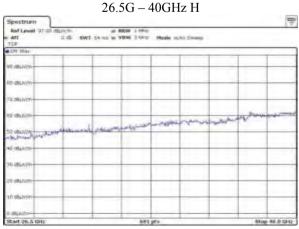








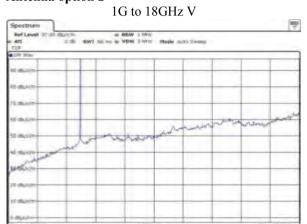




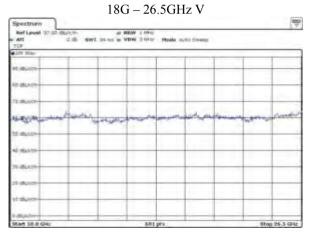


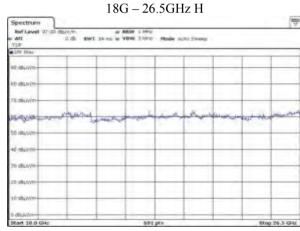
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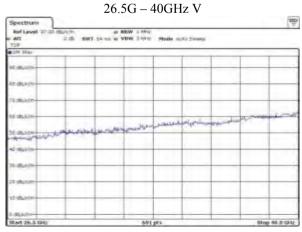
Unwanted emission 802.11a 5200 MHz (CH40) Antenna option 2

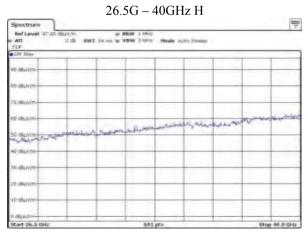














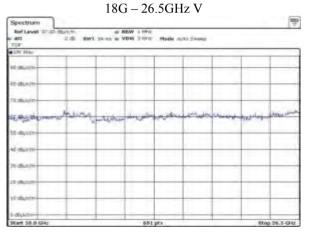
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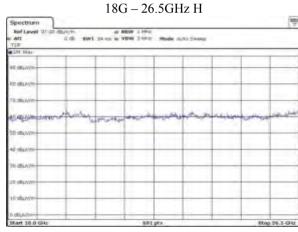
Unwanted emission 802.11a 5240 MHz (CH48)

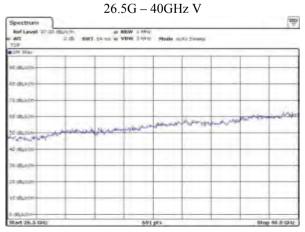
Antenna option 2

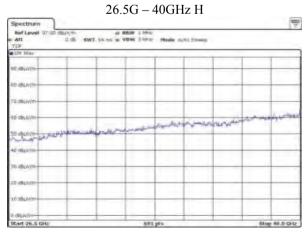












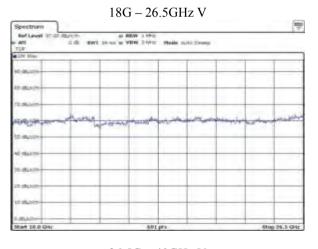


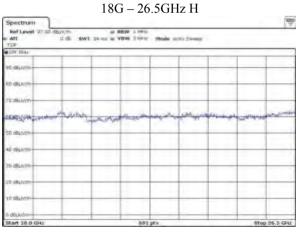
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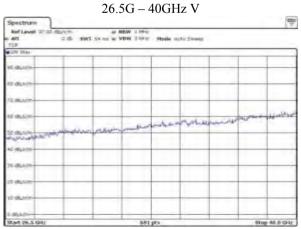
Unwanted emission 802.11a 5260 MHz (CH52) Antenna option 2

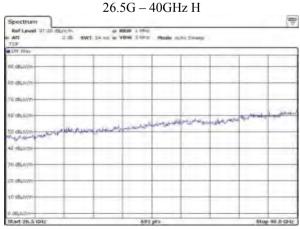












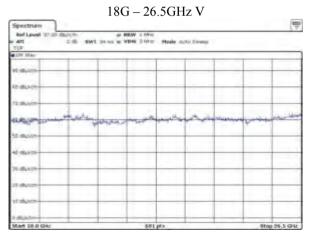


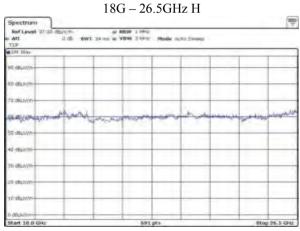
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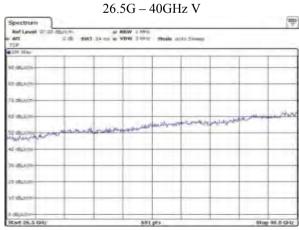
Unwanted emission 802.11a 5280 MHz (CH56) Antenna option 2

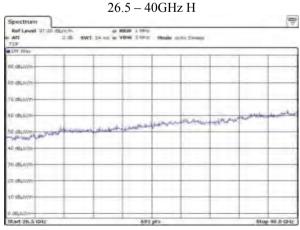










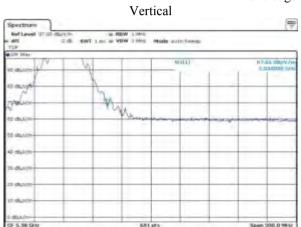


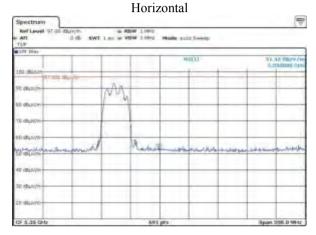


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Unwanted emission 802.11a 5320 MHz (CH64) Antenna option 2

Band edge measurement



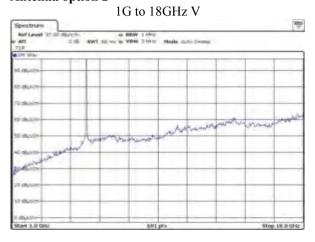


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	67.9	74.0	-6.1
5350.0	V	AV	1	52.0	54.0	-2.0
5350.0	Н	PK	1	51.4	74.0	-22.6
5350.0	Н	AV	1	PK < AV	54.0	N/A

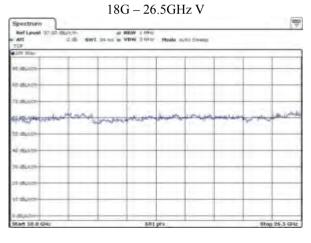


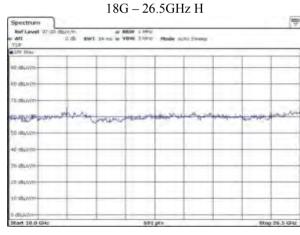
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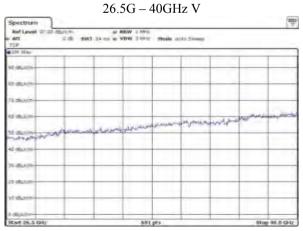
Unwanted emission 802.11a 5320 MHz (CH64) Antenna option 2

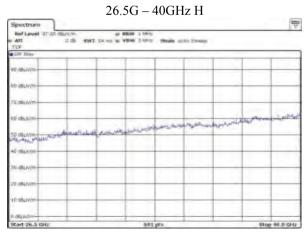










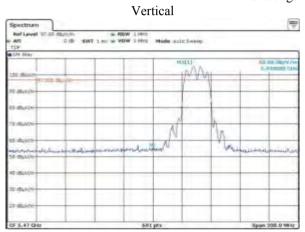


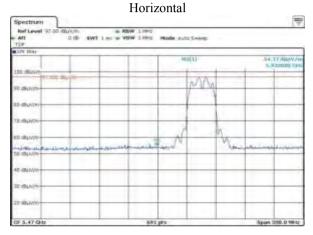


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Unwanted emission 802.11a 5500 MHz (CH100) Antenna option 2

Band edge measurement





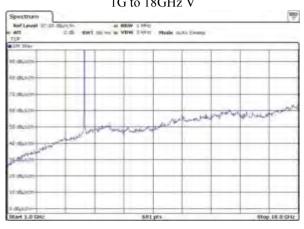
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	53.7	74.0	-20.3
5470.0	V	AV	1	PK < AV	54.0	N/A
5470.0	Н	PK	1	54.8	74.0	-19.2
5470.0	Н	AV	1	45.0	54.0	-9.0



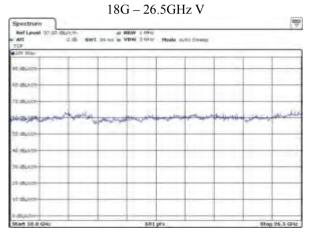
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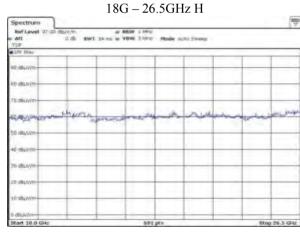
Unwanted emission

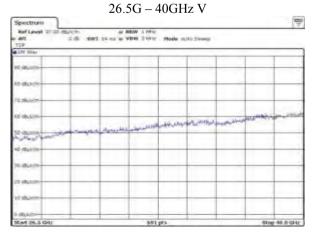
802.11a 5500 MHz (CH100) Antenna option 2 1G to 18GHz V

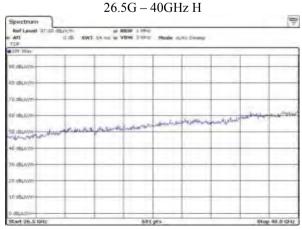












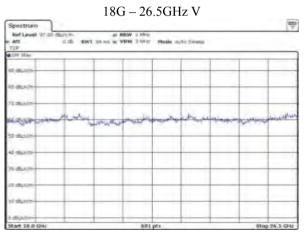


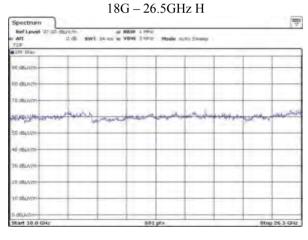
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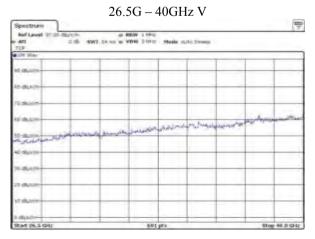
Unwanted emission 802.11a 5600 MHz (CH120) Antenna option 2

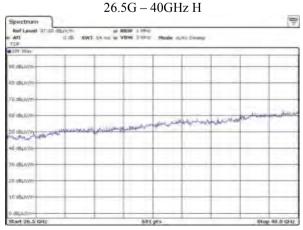










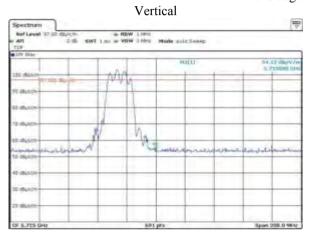


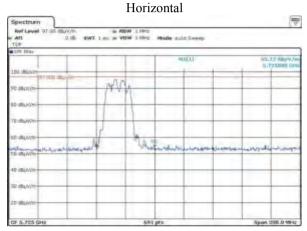


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Unwanted emission 802.11a 5700 MHz (CH140) Antenna option 2

Band edge measurement



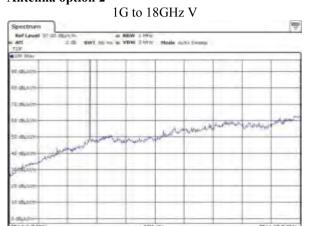


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	54.1	74.0	-19.9
5725.0	V	AV	1	44.9	54.0	-9.1
5725.0	Н	PK	1	53.8	74.0	-20.2
5725.0	Н	AV	1	PK < AV	54.0	N/A

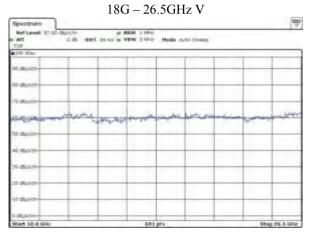


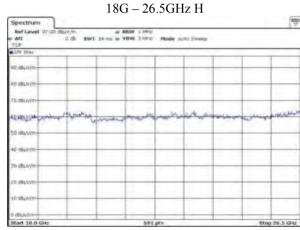
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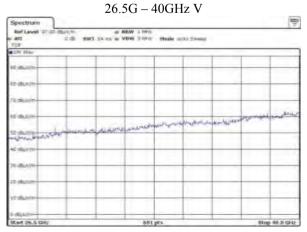
Unwanted emission 802.11a 5700 MHz (CH140) Antenna option 2

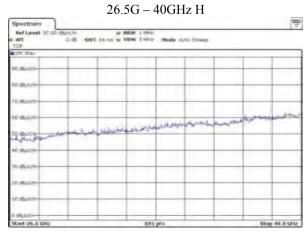










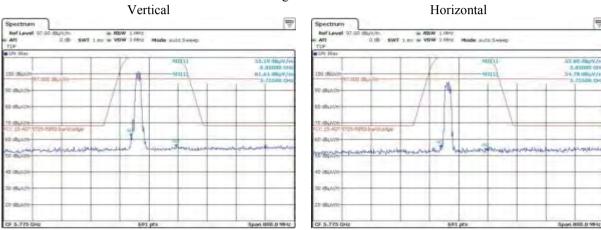




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Unwanted emission 802.11a 5745 MHz (CH149) Antenna option 2

Band edge measurement



No Emission found outside the 5725 MHz - 5850 MHz.



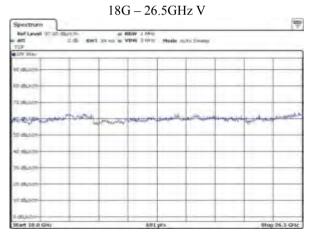
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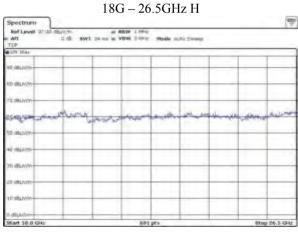
Unwanted emission

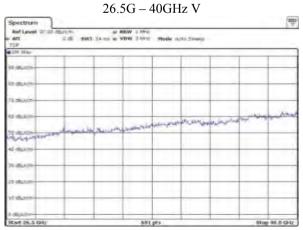
802.11a 5745 MHz (CH149) Antenna option 2

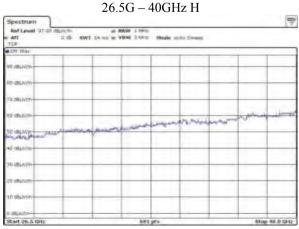












For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

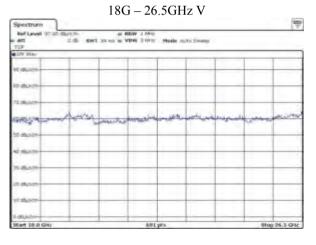


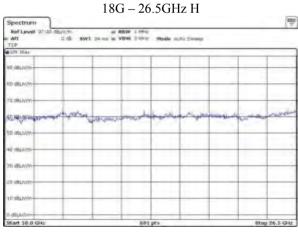
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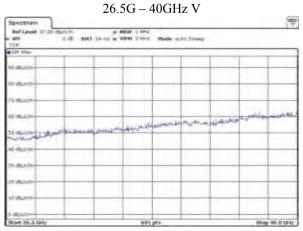
Unwanted emission 802.11a 5785 MHz (CH157) Antenna option 2

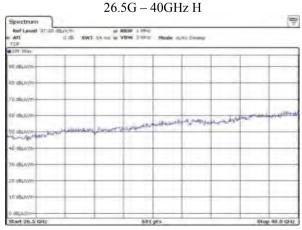










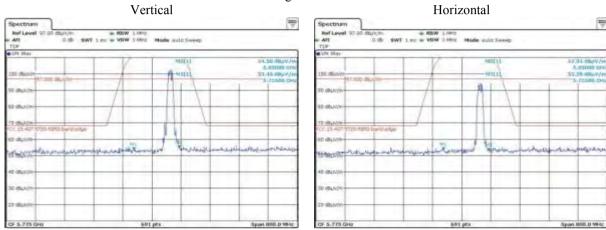




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Unwanted emission 802.11a 5825 MHz (CH165) Antenna option 2

Band edge measurement



No Emission found outside the 5725 MHz - 5850 MHz.



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Unwanted emission 802.11a 5825 MHz (CH165) Antenna option 2

Antenna option 2

1G to 18GHz V

Spectrum

Let Lacel 27 all discrete

All Clark SWT for the William Street Street

TEP

All Clark SWT for the William Street Street

TEP

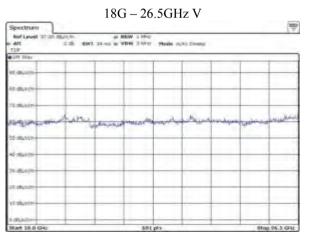
All Clark SWT for the William Street Street

TE Clark SWT for the William Street Street

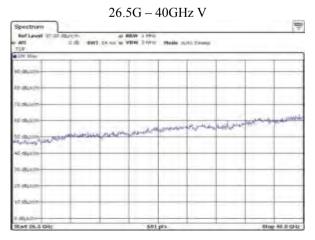
TE Clark SWT

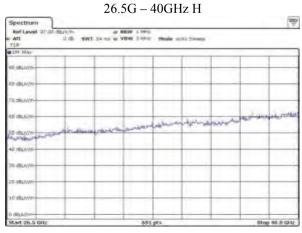
TE Clark









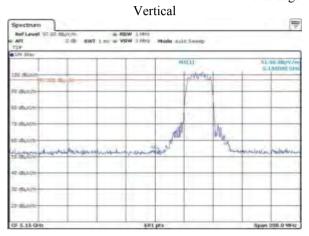


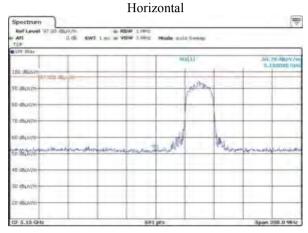


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Unwanted emission 802.11n HT20 5180 MHz (CH36) Antenna option 2

Band edge measurement



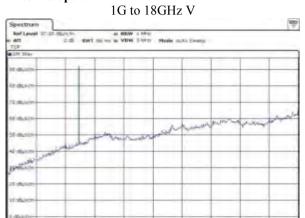


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	51.9	74.0	-22.1
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	Н	PK	1	50.8	74.0	-23.2
5150.0	Н	AV	1	PK < AV	54.0	N/A

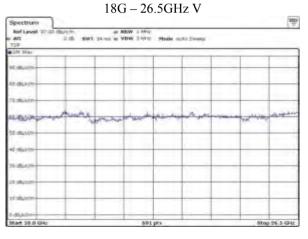


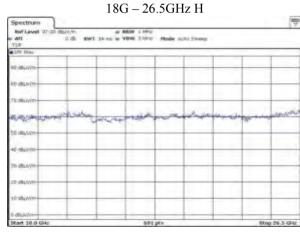
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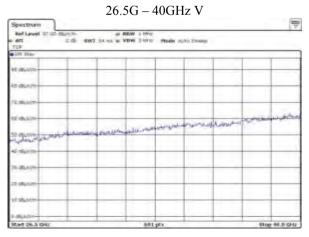
Unwanted emission 802.11n HT20 5180 MHz (CH36) Antenna option 2

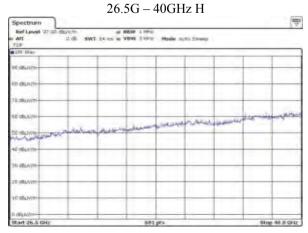








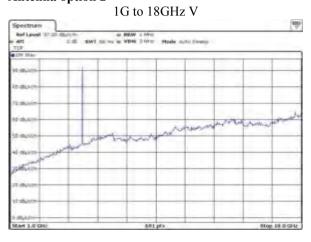


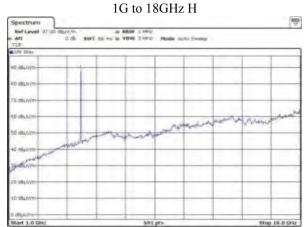


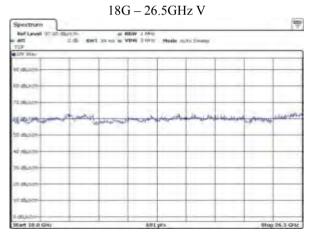


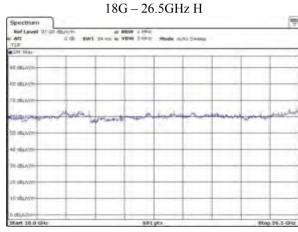
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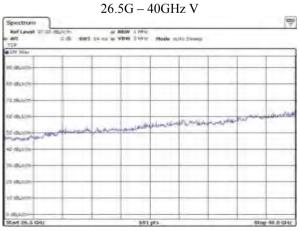
Unwanted emission 802.11n HT20 5200 MHz (CH40) Antenna option 2

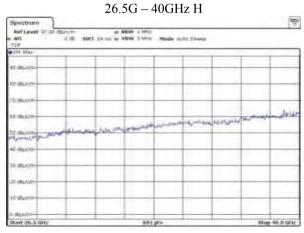








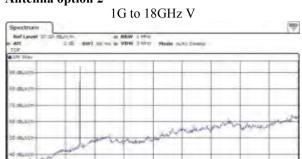




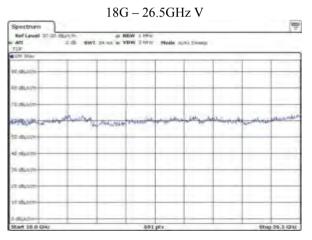


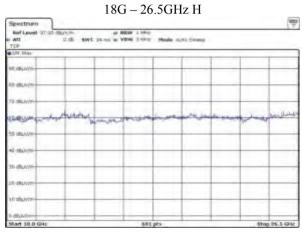
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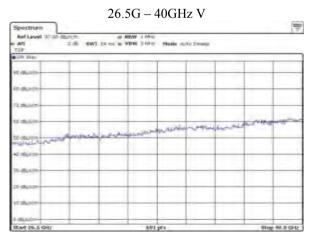
Unwanted emission 802.11n HT20 5240 MHz (CH48) Antenna option 2

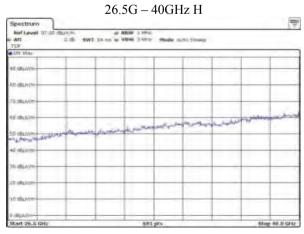








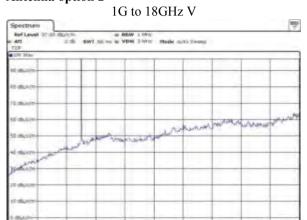


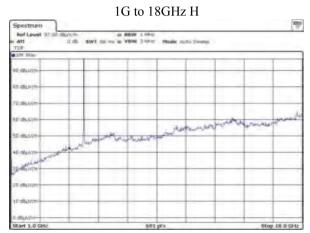


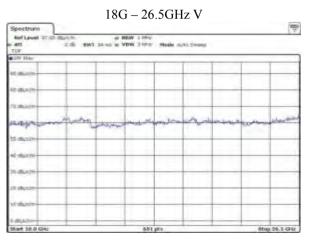


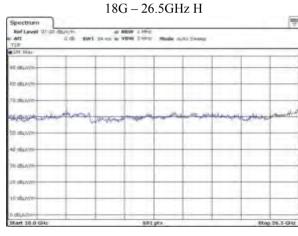
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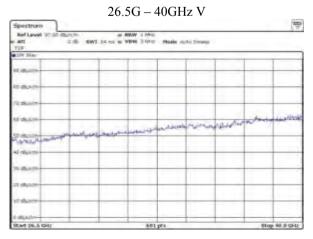
Unwanted emission 802.11n HT20 5260 MHz (CH52) Antenna option 2

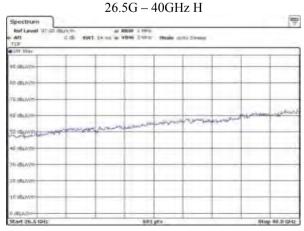












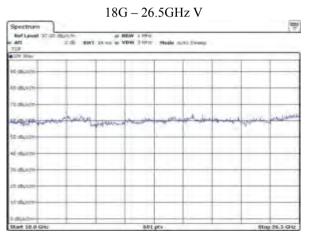


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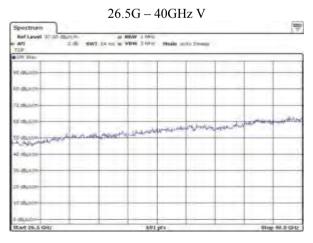
Unwanted emission 802.11n HT20 5280 MHz (CH56) Antenna option 2

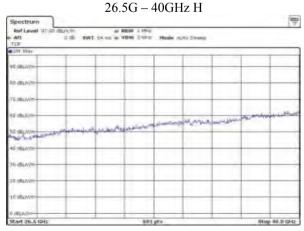










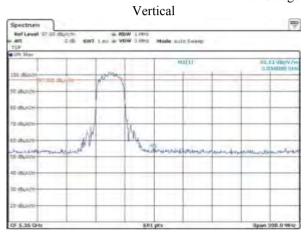


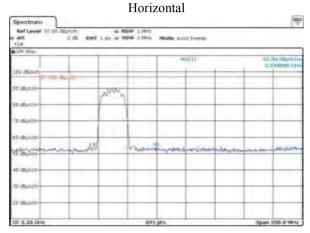


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Unwanted emission 802.11n HT20 5320 MHz (CH64) Antenna option 2

Band edge measurement



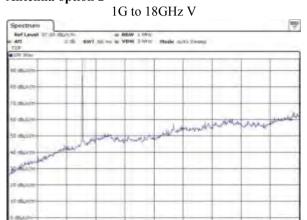


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	53.1	74.0	-20.6
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	Н	PK	1	52.0	74.0	-22.0
5350.0	Н	AV	1	PK < AV	54.0	N/A

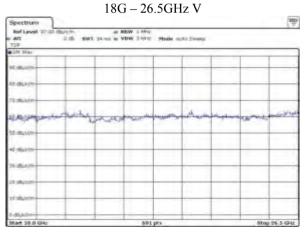


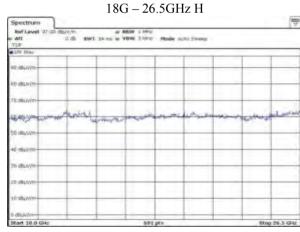
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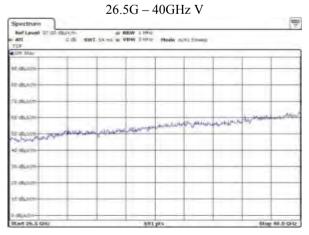
Unwanted emission 802.11n HT20 5320 MHz (CH64) Antenna option 2

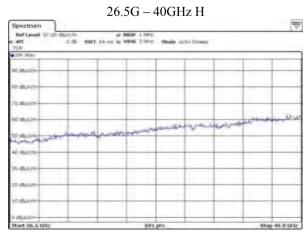










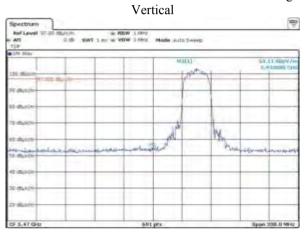


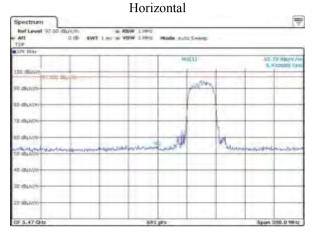


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Unwanted emission 802.11n HT20 5500 MHz (CH100) Antenna option 2

Band edge measurement





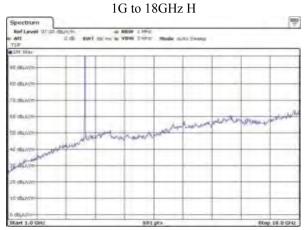
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	53.1	74.0	-20.9
5470.0	V	AV	1	PK < AV	54.0	N/A
5470.0	Н	PK	1	52.7	74.0	-21.3
5470.0	Н	AV	1	PK < AV	54.0	N/A

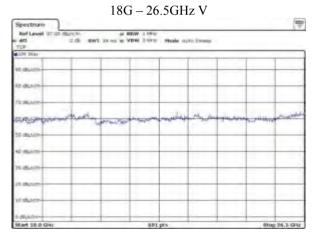


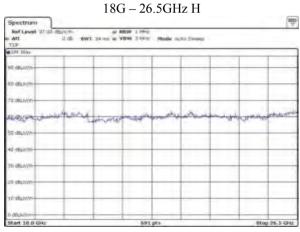
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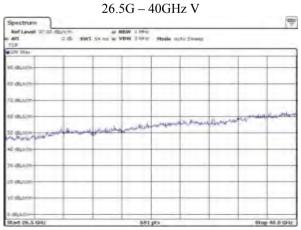
Unwanted emission 802.11n HT20 5500 MHz (CH100) Antenna option 2

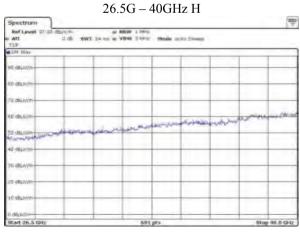








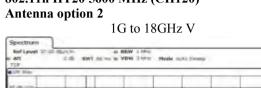






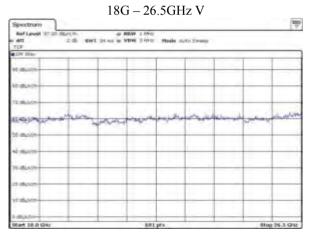
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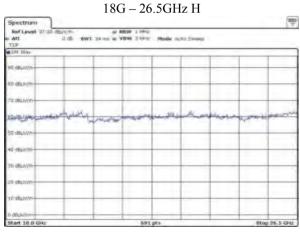
Unwanted emission 802.11n HT20 5600 MHz (CH120) Antenna ontion 2

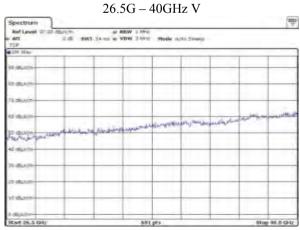


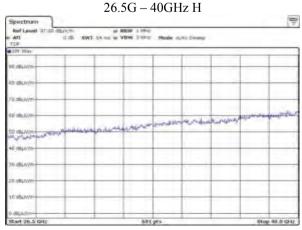










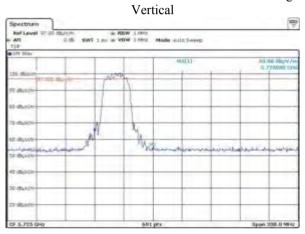


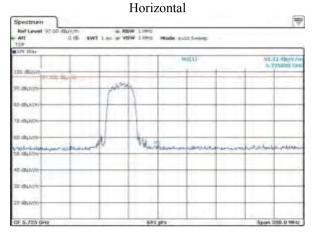


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Unwanted emission 802.11n HT20 5700 MHz (CH140) Antenna option 2

Band edge measurement



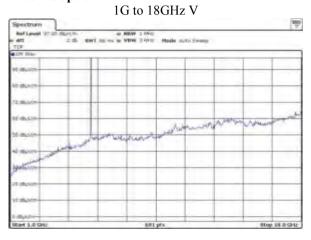


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	53.1	74.0	-20.9
5725.0	V	AV	1	PK < AV	54.0	N/A
5725.0	Н	PK	1	53.2	74.0	-20.8
5725.0	Н	AV	1	PK < AV	54.0	N/A

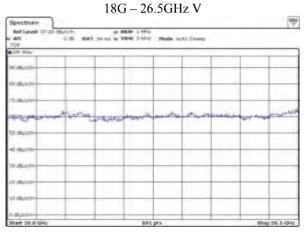


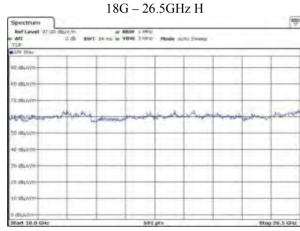
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Unwanted emission 802.11n HT20 5700 MHz (CH140) Antenna option 2

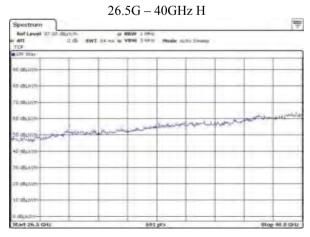










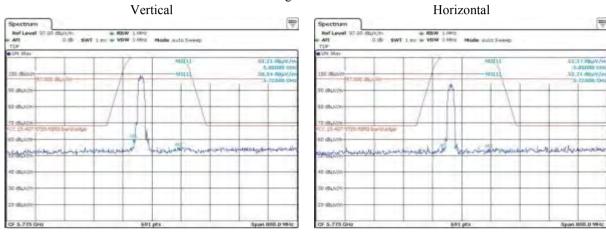




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Unwanted emission 802.11n HT20 5745 MHz (CH149) Antenna option 2

Band edge measurement

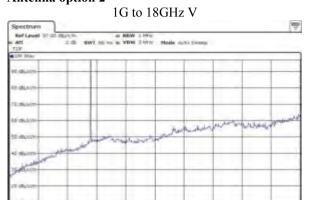


No Emission found outside the 5725 MHz - 5850 MHz.

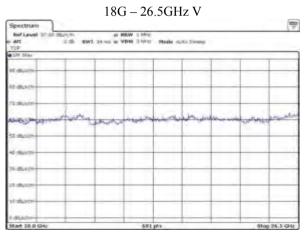


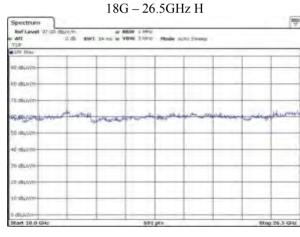
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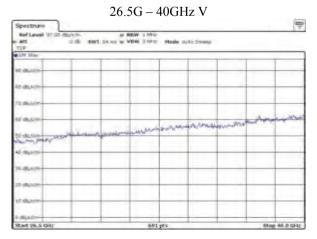
Unwanted emission 802.11n HT20 5745 MHz (CH149) Antenna option 2

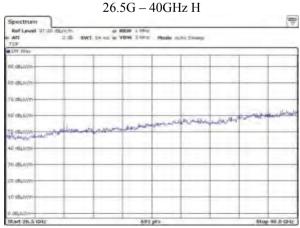








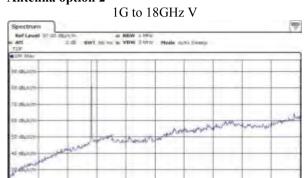




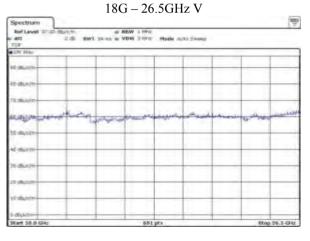


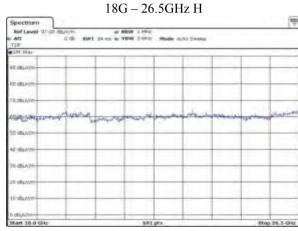
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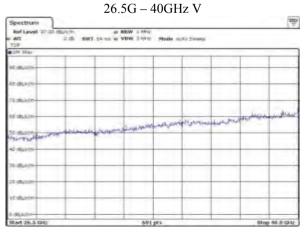
Unwanted emission 802.11n HT20 5785 MHz (CH157) Antenna option 2

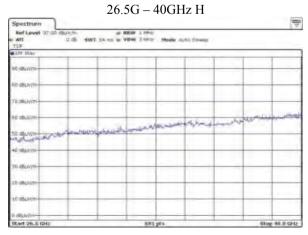










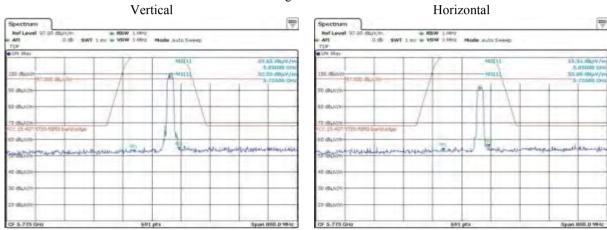




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Unwanted emission 802.11n HT20 5825 MHz (CH165) Antenna option 2

Band edge measurement

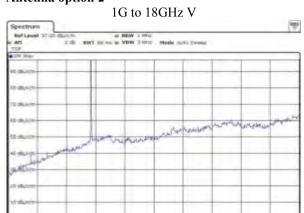


No Emission found outside the 5725 MHz - 5850 MHz.

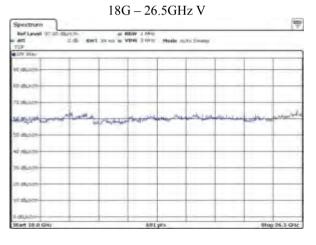


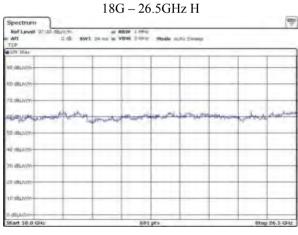
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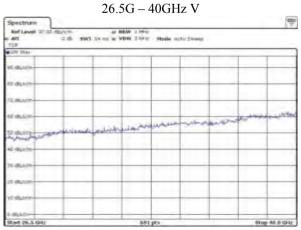
Unwanted emission 802.11n HT20 5825 MHz (CH165) Antenna option 2

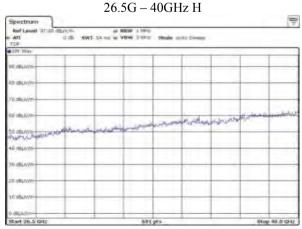










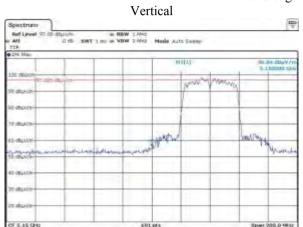


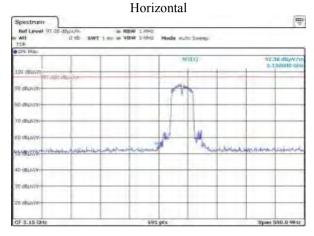


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Unwanted emission 802.11n HT40 5190 MHz (CH38) Antenna option 2

Band edge measurement





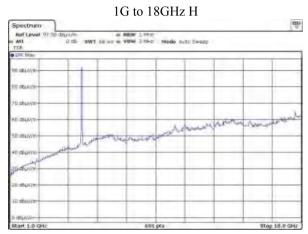
Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBµV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	56.0	74.0	-18.0
5150.0	V	AV	1	46.3	54.0	-7.7
5150.0	Н	PK	1	52.4	74.0	-21.6
5150.0	Н	AV	1	PK < AV	54.0	N/A

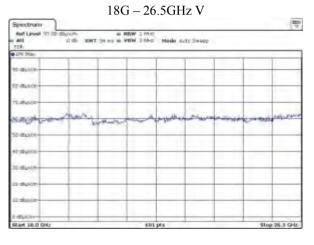


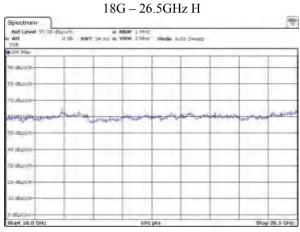
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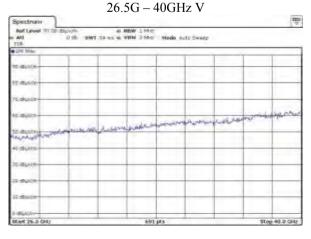
Unwanted emission 802.11n HT40 5190 MHz (CH38) Antenna option 2

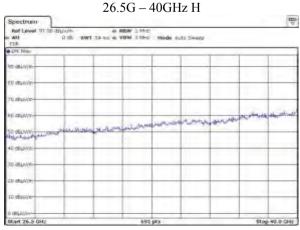














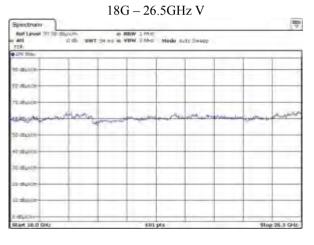
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Unwanted emission

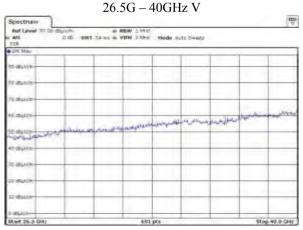
802.11n HT40 5230 MHz (CH46) Antenna option 2

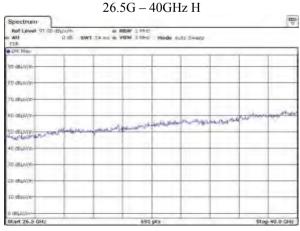








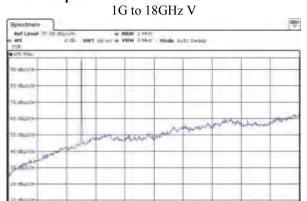




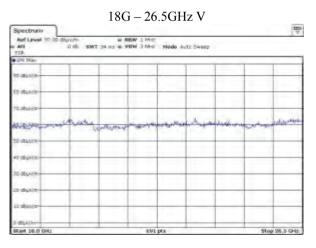


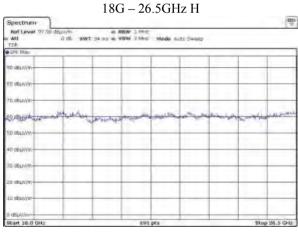
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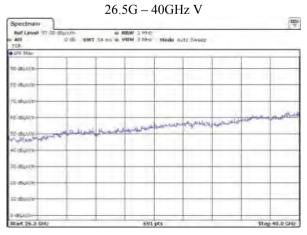
Unwanted emission 802.11n HT40 5270 MHz (CH54) Antenna option 2

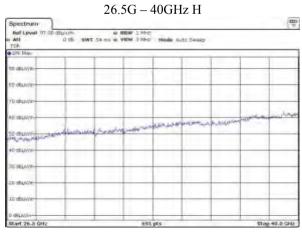










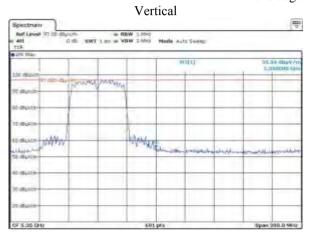


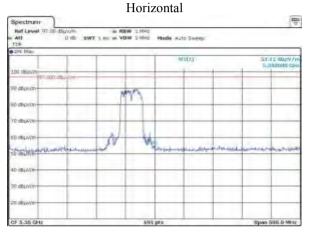


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Unwanted emission 802.11n HT40 5310 MHz (CH62) Antenna option 2

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	55.3	74.0	-18.7
5350.0	V	AV	1	45.6	54.0	-8.4
5350.0	Н	PK	1	53.1	74.0	-20.9
5350.0	Н	AV	1	PK < AV	54.0	N/A

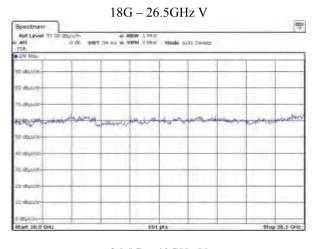


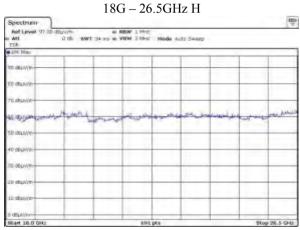
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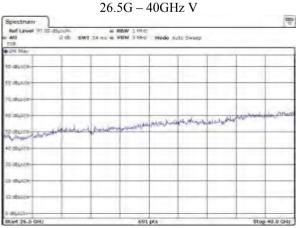
Unwanted emission 802.11n HT40 5310 MHz (CH62) Antenna option 2

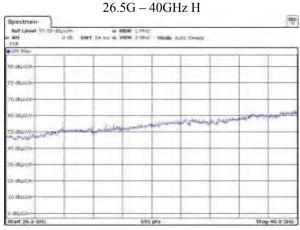










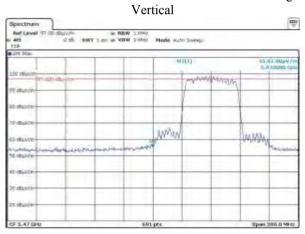


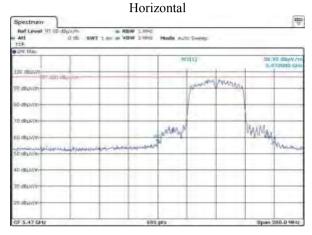


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Unwanted emission 802.11n HT40 5510 MHz (CH102) Antenna option 2

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	55.0	74.0	-19.0
5470.0	V	AV	1	45.7	54.0	-8.3
5470.0	Н	PK	1	56.9	74.0	-17.1
5470.0	Н	AV	1	47.2	54.0	-6.8

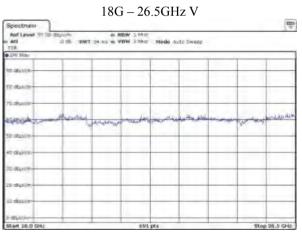


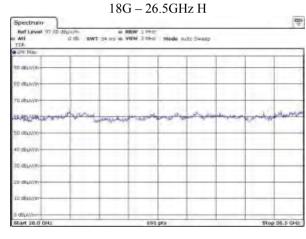
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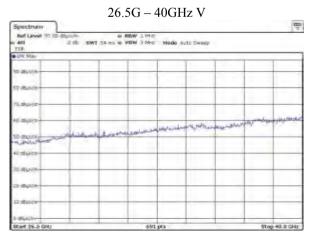
Unwanted emission 802.11n HT40 5510 MHz (CH102) Antenna option 2

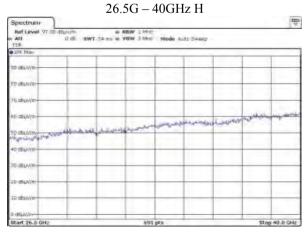








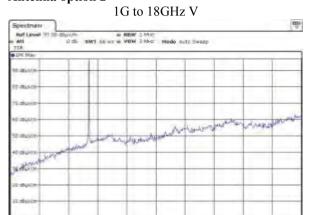




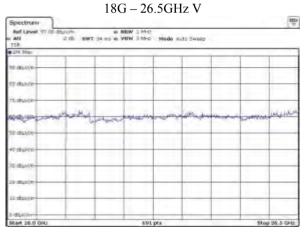


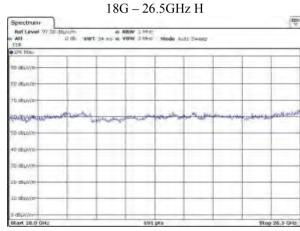
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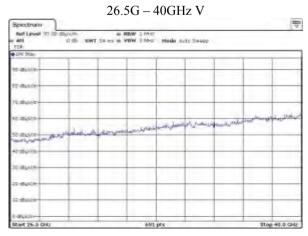
Unwanted emission 802.11n HT40 5590 MHz (CH118) Antenna option 2

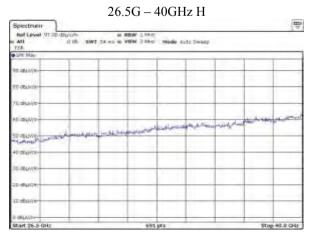










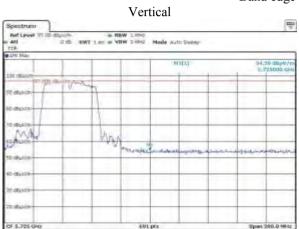


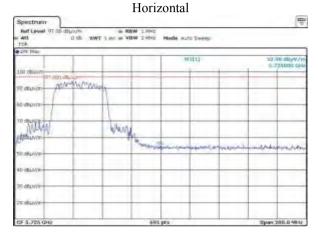


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Unwanted emission 802.11n HT40 5670 MHz (CH134) Antenna option 2

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	54.3	74.0	-19.7
5725.0	V	AV	1	44.6	54.0	-9.4
5725.0	Н	PK	1	53.0	74.0	-21.0
5725.0	Н	AV	1	43.6	54.0	-10.4

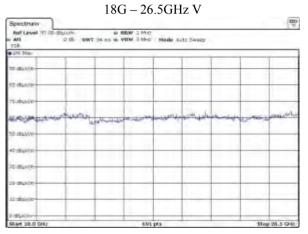


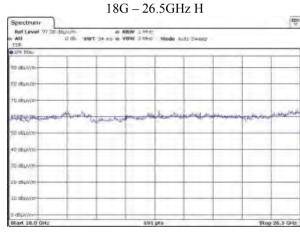
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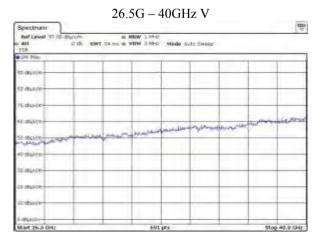
Unwanted emission 802.11n HT40 5670 MHz (CH134) Antenna option 2

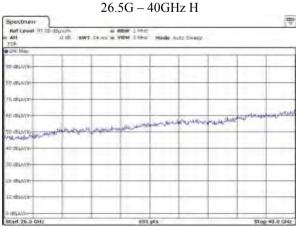










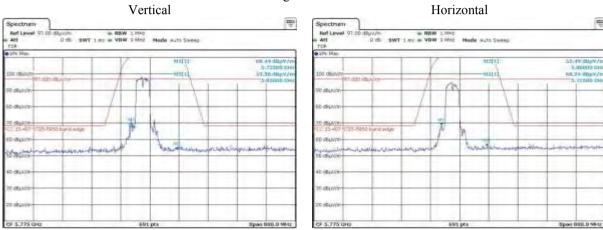




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Unwanted emission 802.11n HT40 5755 MHz (CH151) Antenna option 2

Band edge measurement



No Emission found outside the 5725 MHz - 5850 MHz.



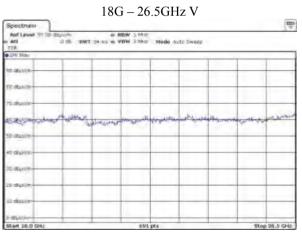
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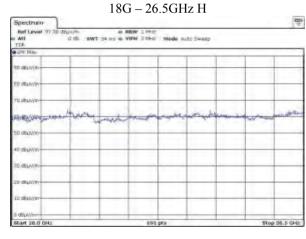
Unwanted emission 802.11n HT40 5755 MHz (CH151)

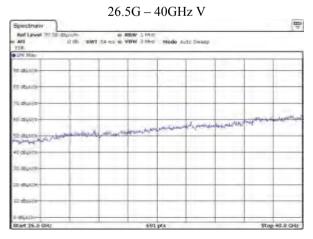
Antenna option 2 1G to 18GHz V A SWY 1 Mer Made Auto Sweep

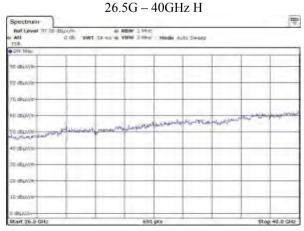










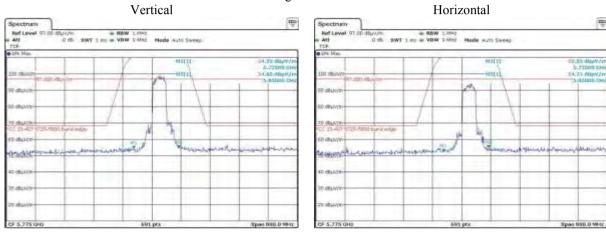




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Unwanted emission 802.11n HT40 5795 MHz (CH159) Antenna option 2

Band edge measurement



No Emission found outside the 5725 MHz - 5850 MHz.



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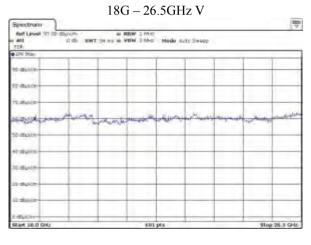
Unwanted emission 802.11n HT40 5795 MHz (CH159)

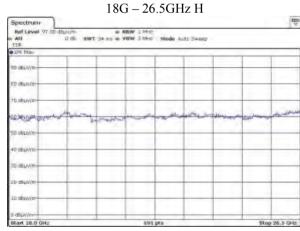
Antenna option 2

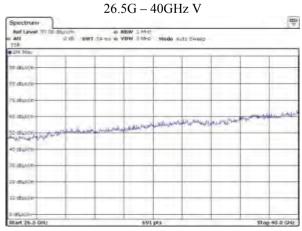


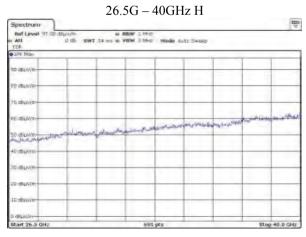


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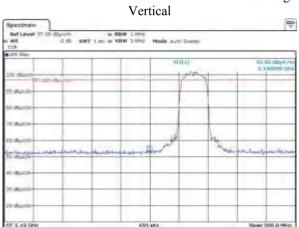


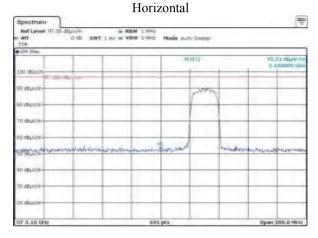


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Unwanted emission 802.11ac VHT20 5180 MHz (CH36) Antenna option 2

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	52.3	74.0	-21.7
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	Н	PK	1	52.2	74.0	-21.8
5150.0	Н	AV	1	PK < AV	54.0	N/A

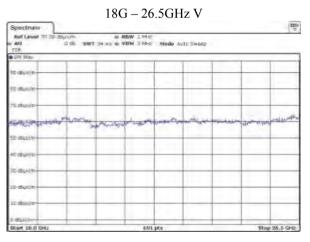


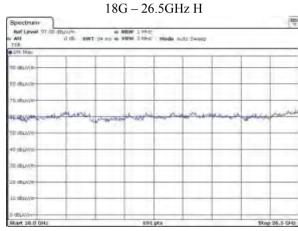
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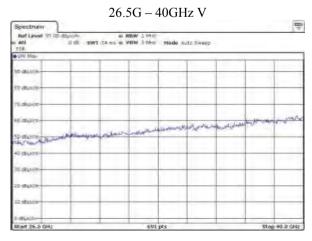
Unwanted emission 802.11ac VHT20 5180 MHz (CH36) Antenna option 2

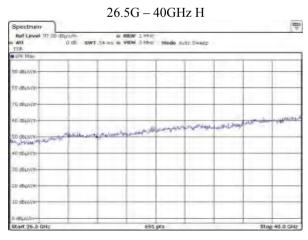








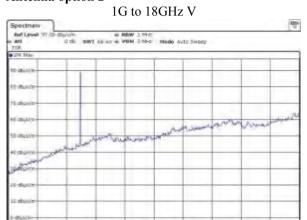


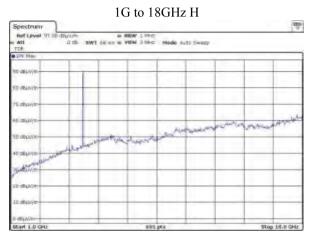


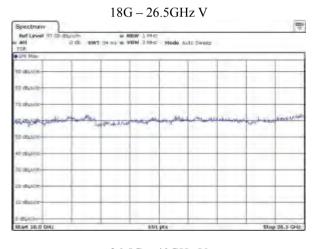


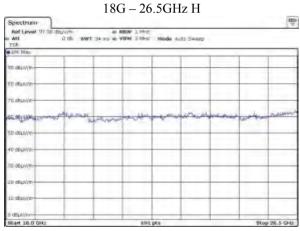
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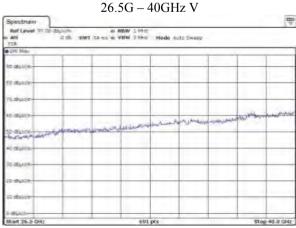
Unwanted emission 802.11ac VHT20 5200 MHz (CH40) Antenna option 2

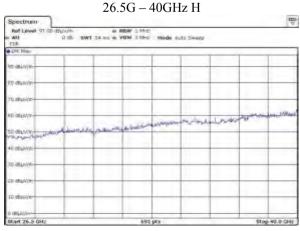












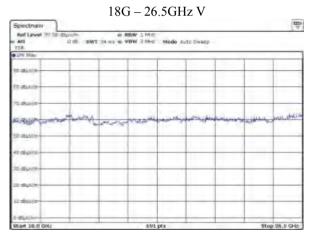


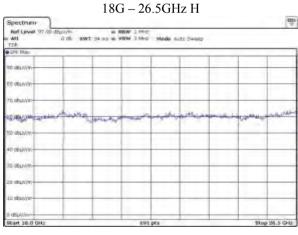
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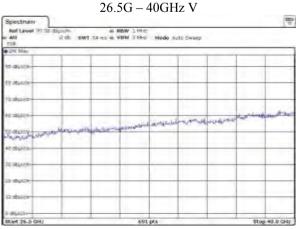
Unwanted emission 802.11ac VHT20 5240 MHz (CH48) Antenna option 2

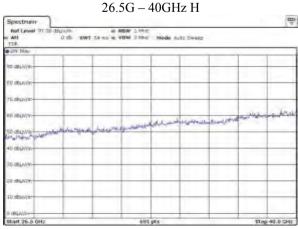










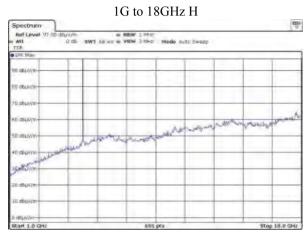


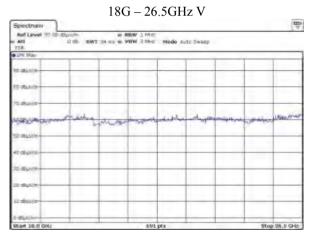


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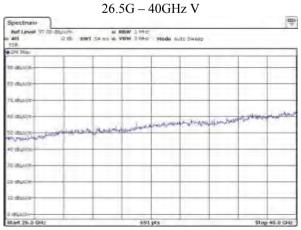
Unwanted emission 802.11ac VHT20 5260 MHz (CH52) Antenna option 2













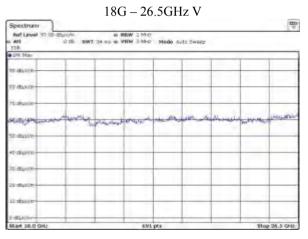


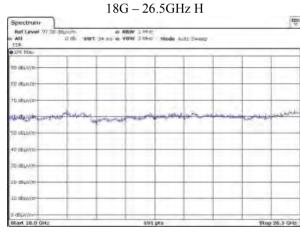
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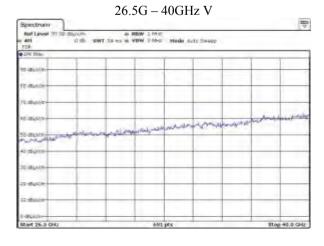
Unwanted emission 802.11ac VHT20 5280 MHz (CH56) Antenna option 2

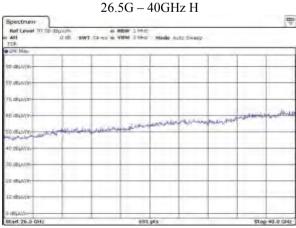










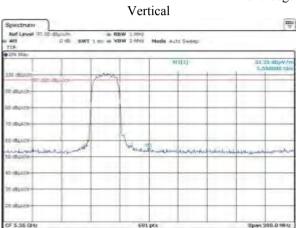


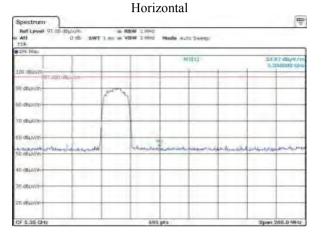


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Unwanted emission 802.11ac VHT20 5320 MHz (CH64) Antenna option 2

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5350.0	V	PK	1	53.3	74.0	-20.7
5350.0	V	AV	1	PK < AV	54.0	N/A
5350.0	Н	PK	1	54.0	74.0	-20.0
5350.0	Н	AV	1	44.5	54.0	-9.5

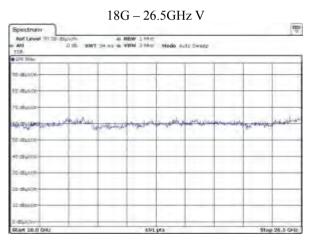


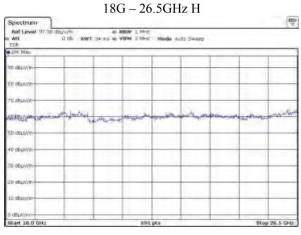
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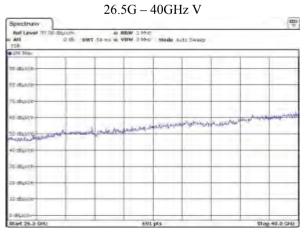
Unwanted emission 802.11ac VHT20 5320 MHz (CH64) Antenna option 2

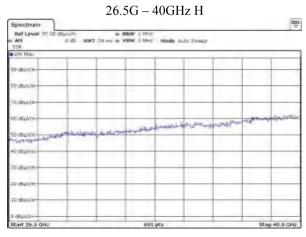










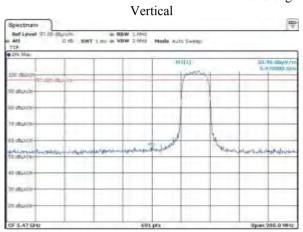


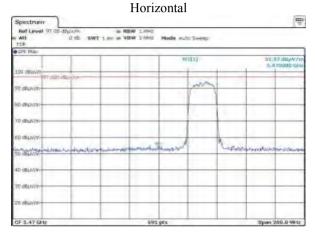


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Unwanted emission 802.11ac VHT20 5500 MHz (CH100) Antenna option 2

Band edge measurement





Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5470.0	V	PK	1	54.0	74.0	-20.0
5470.0	V	AV	1	44.6	54.0	-9.4
5470.0	Н	PK	1	52.4	74.0	-21.6
5470.0	Н	AV	1	PK < AV	54.0	N/A



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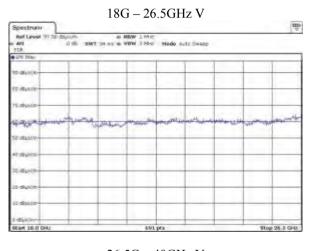
Unwanted emission 802.11ac VHT20 5500 MHz (CH100)

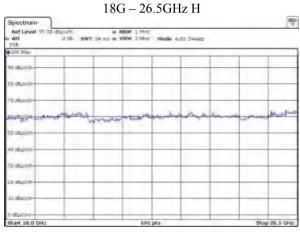
Antenna option 2

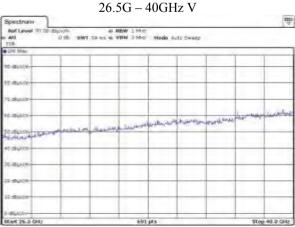


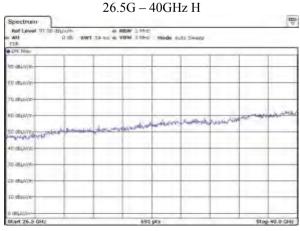


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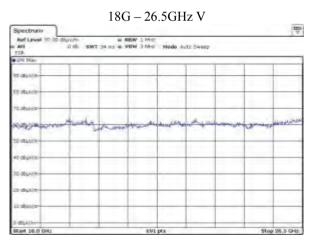


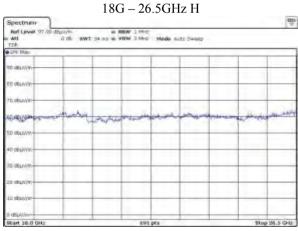
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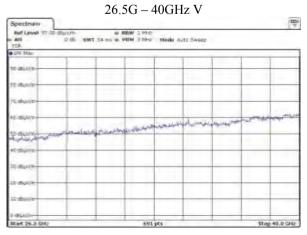
Unwanted emission 802.11ac VHT20 5600 MHz (CH120) Antenna option 2

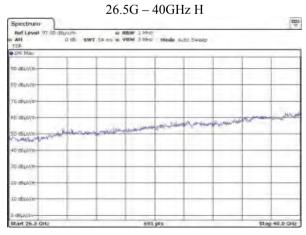










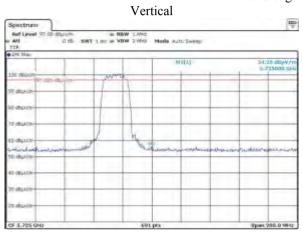


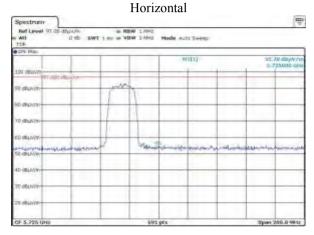


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Unwanted emission 802.11ac VHT20 5700 MHz (CH140) Antenna option 2

Band edge measurement



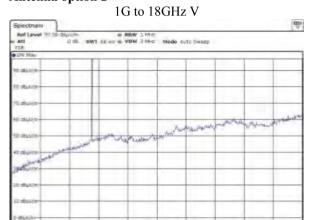


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5725.0	V	PK	1	54.3	74.0	-19.7
5725.0	V	AV	1	45.1	54.0	-8.9
5725.0	Н	PK	1	52.8	74.0	-21.2
5725.0	Н	AV	1	PK < AV	54.0	N/A

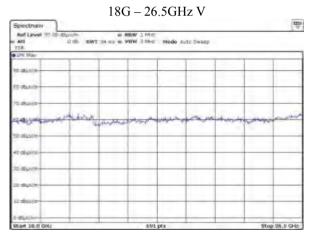


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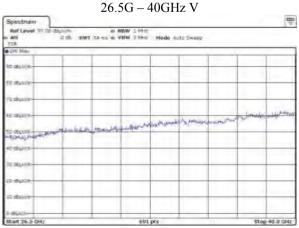
Unwanted emission 802.11ac VHT20 5700 MHz (CH140) Antenna option 2

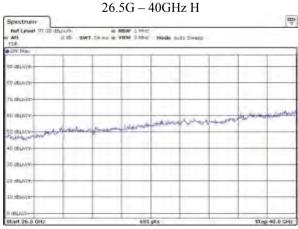










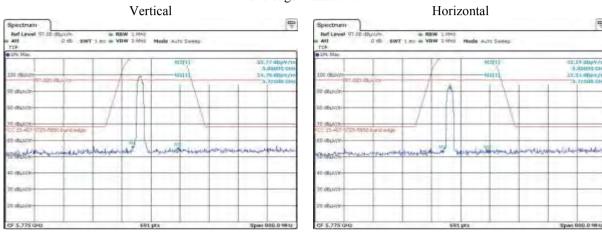




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Unwanted emission 802.11ac VHT20 5745 MHz (CH149) Antenna option 2

Band edge measurement



No Emission found outside the 5725 MHz - 5850 MHz.

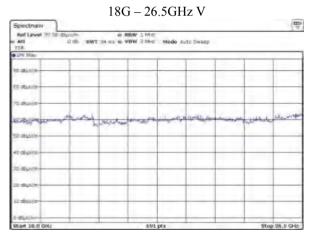


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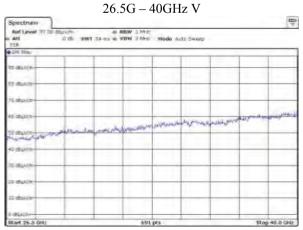
Unwanted emission 802.11ac VHT20 5745 MHz (CH149) Antenna option 2

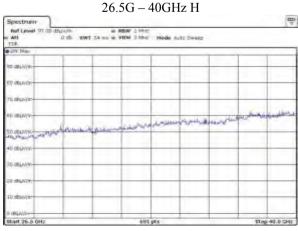










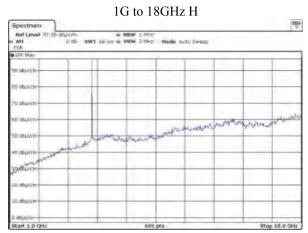


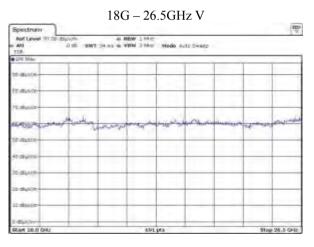


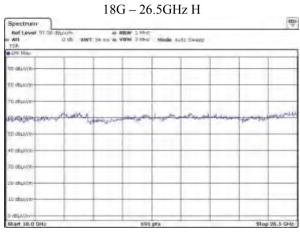
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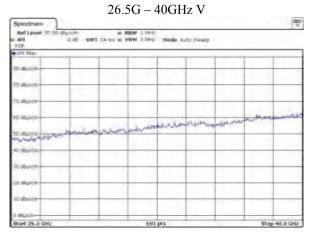
Unwanted emission 802.11ac VHT20 5785 MHz (CH157) Antenna option 2











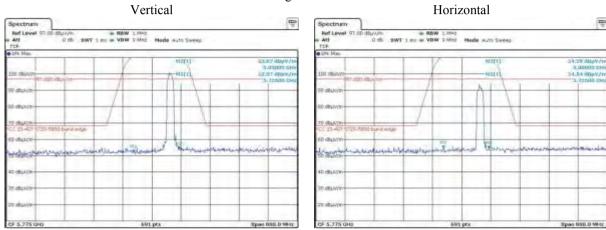




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Unwanted emission 802.11ac VHT20 5825 MHz (CH165) Antenna option 2

Band edge measurement



No Emission found outside the 5725 MHz - 5850 MHz.



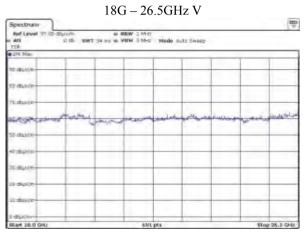
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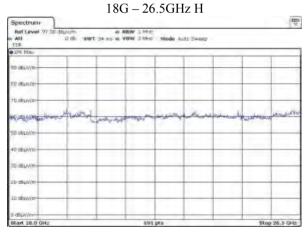
Unwanted emission 802.11ac VHT20 5825 MHz (CH165)

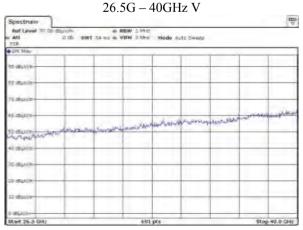
Antenna option 2 1G to 18GHz V

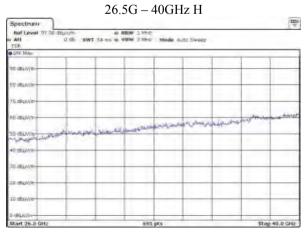










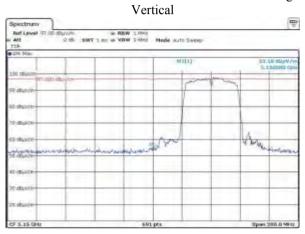


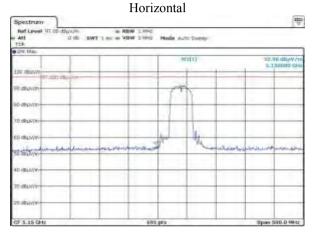


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Unwanted emission 802.11ac VHT40 5190 MHz (CH38) Antenna option 2

Band edge measurement



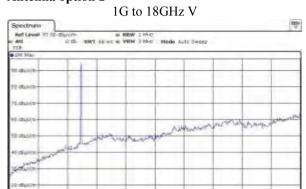


Frequency (MHz)	Antenna Polarization	Detector	Measuring Bandwidth (MHz)	Measured Level @3m (dBμV/m)	Limit (dBµV/m)	Margin (dB)
5150.0	V	PK	1	53.2	74.0	-20.8
5150.0	V	AV	1	PK < AV	54.0	N/A
5150.0	Н	PK	1	53.0	74.0	-21.0
5150.0	Н	AV	1	PK < AV	54.0	N/A



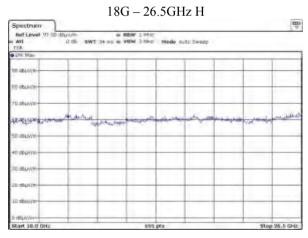
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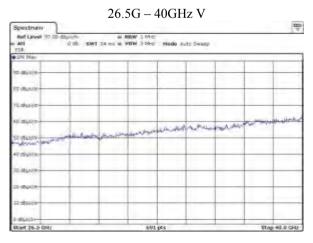
Unwanted emission 802.11ac VHT40 5190 MHz (CH38) Antenna option 2

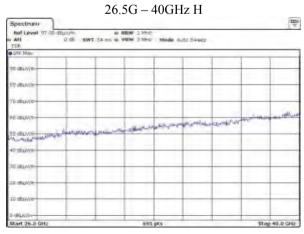














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Unwanted emission 802.11ac VHT40 5230 MHz (CH46) Antenna option 2

