

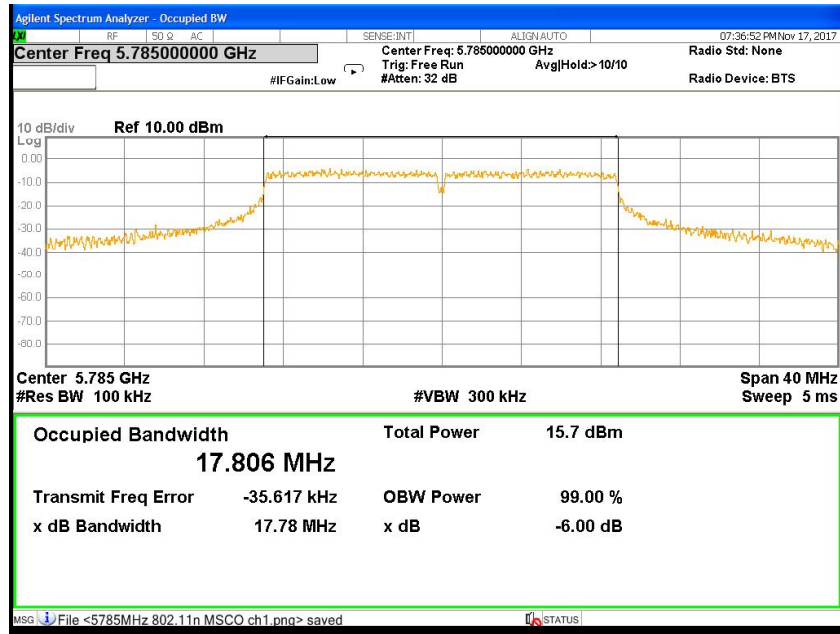


Figure 113: 5785MHz 802.11n MCS0 ch0

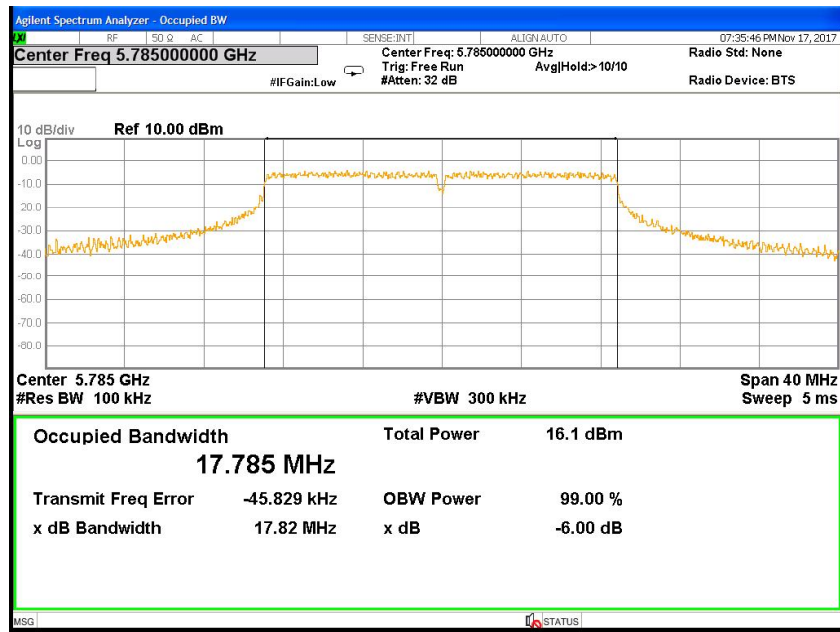


Figure 114: 5785MHz 802.11n MCS0 ch1

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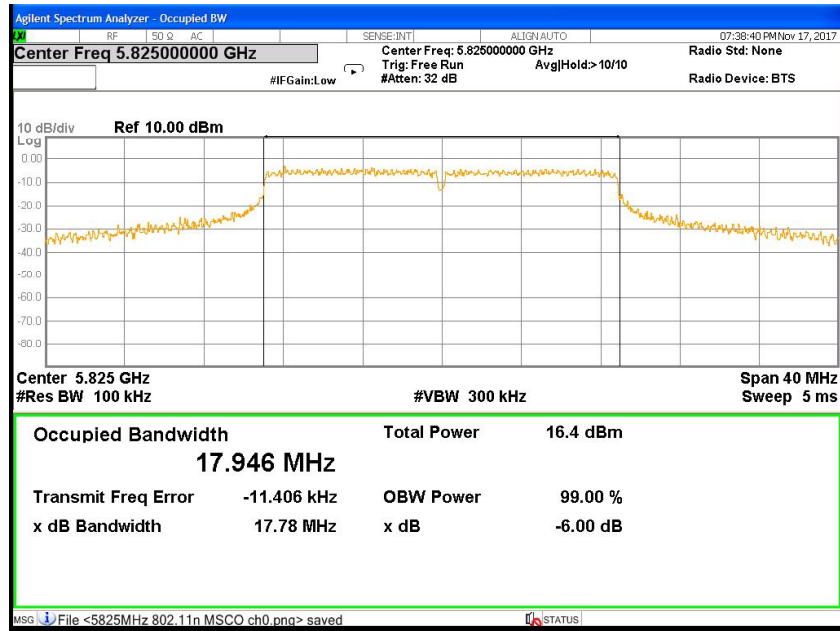


Figure 115: 5825MHz 802.11n MCS0 ch0

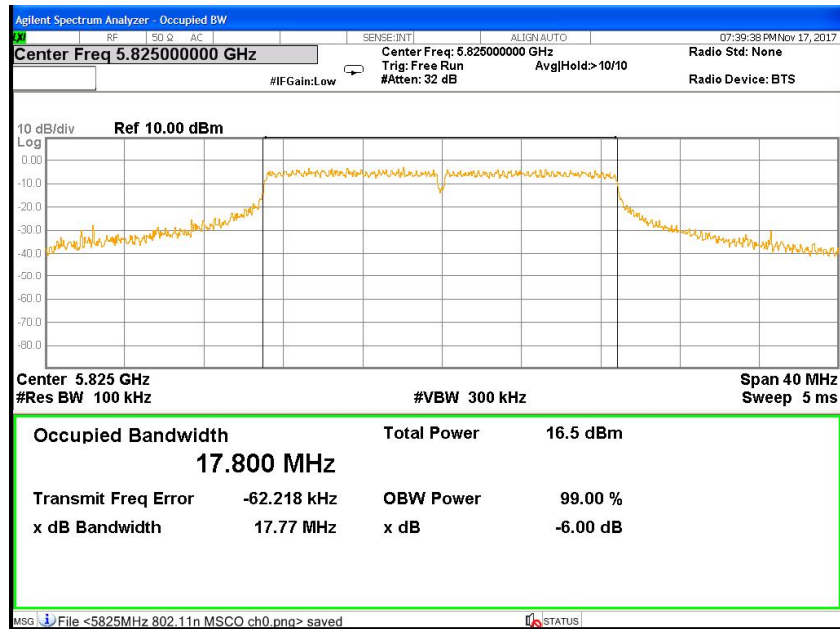


Figure 116: 5825MHz 802.11n MCS0 ch1

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5.7 Emissions in Receive Mode.

This test measures the electromagnetic levels of spurious signals generated by the EUT that radiated from the EUT and may affect the performance of other nearby electronic equipment.

5.7.1 Over View of Test

Results	Complies (as tested per this report)					Date	10/4/2017
Standard	LP0002, 2.11						
Product Model	DRX PLUS DETECTOR RADIO			Serial#	13A32S1011361		
Configuration	EUT set to receive mode						
Test Set-up	Per LP0002, APPENDIX I						
EUT Powered By	DC	Temp	74° F	Humidity	32%	Pressure	1010mbar
Frequency Range	30 MHz to 40 GHz @ 3m						
Perf. Criteria	(Below Limit)		Perf. Verification		Readings Under Limit		
Mod. to EUT	None		Test Performed By		Richard Decker		

5.7.2 Test Procedure

Radiated emissions tests were performed using the procedures of LP0002, APPENDIX I including methods for signal maximizations and EUT configuration. The photos included with the report show the EUT in its maximized configuration.

The frequency range from 30 MHz to 40 GHz was investigated for radiated emissions.

Radiated emission testing was performed at a distance of 3 meters in a 10 meter semi-anechoic chamber.

5.7.3 Deviations

There were no deviations from the test methodology.

5.7.4 Final Test

All final radiated emissions measurements were below (in compliance) the limits.

*The worst case radiated emissions for the 5725-5850 MHz bands in receive mode is 802.11n.

5.7.5 Final Graphs and Tabulated Data

Frequency MHz	QuasiPeak dBμV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Limit dBμV/m	Margin dB
33.9	24.9	100.0	V	34.0	-2.2	40.0	-15.1
41.4	16.4	100.0	V	119.0	-7.7	40.0	-23.6
120.0	18.1	100.0	V	354.0	-5.1	43.5	-25.4
295.0	24.3	100.0	V	202.0	-1.7	46	-21.7
475.0	30.3	100.0	V	101.0	3.0	46	-15.7
490.0	26.7	100.0	V	102.0	3.4	46	-19.3
30.6	27.2	306.0	H	356.0	0.3	40.0	-12.8
34.5	26.5	306.0	H	331.0	-2.6	40.0	-13.5
41.0	17.4	306.0	H	46.0	-7.4	40.0	-22.6
120.0	20.5	306.0	H	263.0	-5.1	43.5	-23.0
185.0	22.7	306.0	H	114.0	-6.0	43.5	-20.8
475.0	25.5	306.0	H	3.0	3.0	46	-20.5
802.11a Receive Mode 30MHz - 1000MHz							

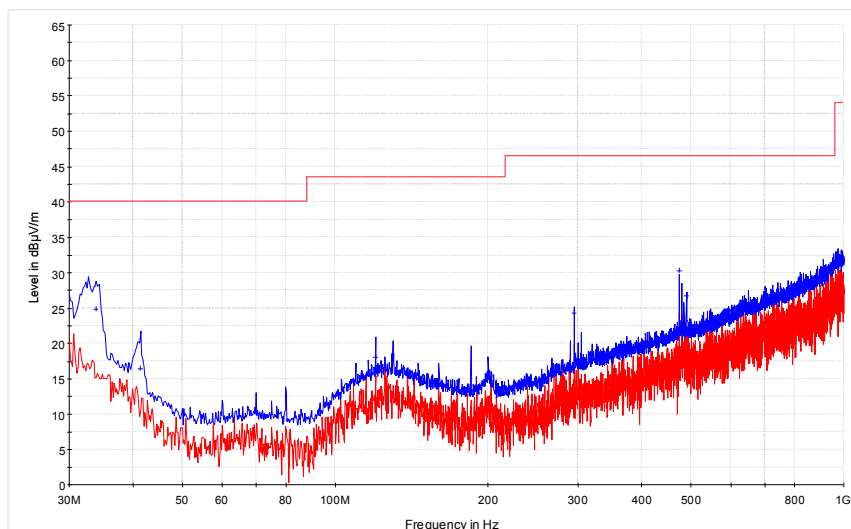
Frequency MHz	CAverage dBμV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Limit dBμV/m	Margin dB
18000.0	34.7	160.0	V	2.0	16.1	54	-19.3
17996.5	34.9	200.0	H	2.0	16.1	54	-19.1
802.11a Receive Mode 1GHz - 18GHz							

Frequency MHz	CAverage dBμV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Limit dBμV/m	Margin dB
25085.3	36.2	200.0	V	305	20.4	54	-17.8
25320.1	35.1	220.0	H	2	20.2	54	-18.9
Receive Mode 802.11a Radiated Emissions 18GHz – 26.5GHz							

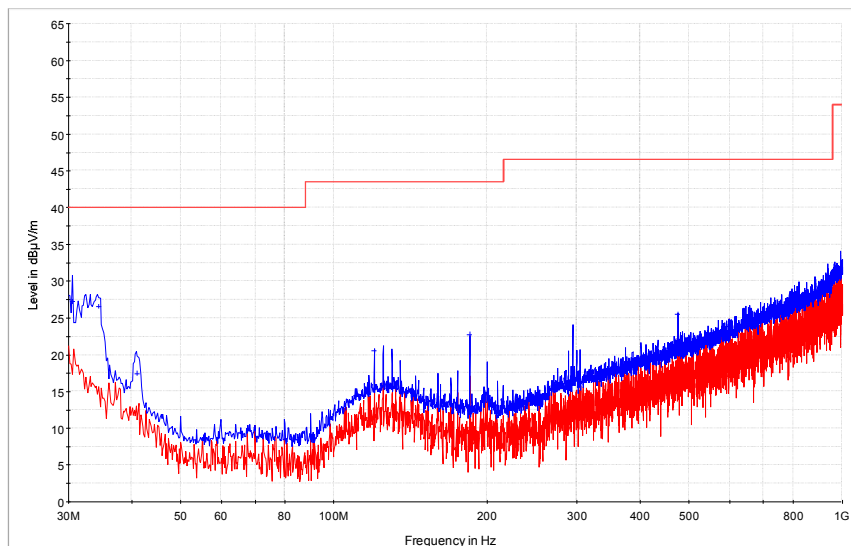
Frequency MHz	CAverage dBμV/m	Height cm	Polarization	Azimuth deg	Corr. dB	Limit dBμV/m	Margin dB
27229.0	45.5	160.0	V	2.0	0.7	54.0	-8.5
30493.0	45.6	170.0	H	2.0	-1.1	54.0	-8.4
Receive Mode 802.11a Radiated Emissions 26.5GHz – 40GHz							
Red is maximum emission for 802.11a							

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Receive Mode 802.11a Radiated Emissions 30MHz – 1GHz



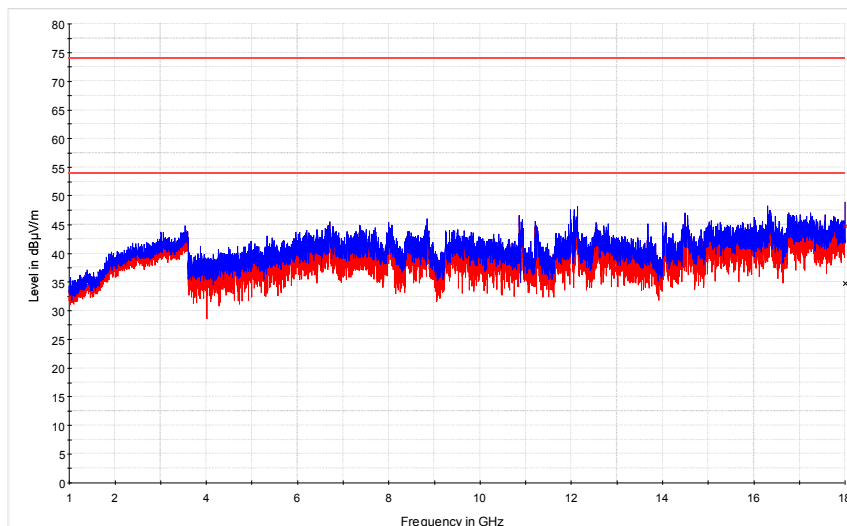
Vertical



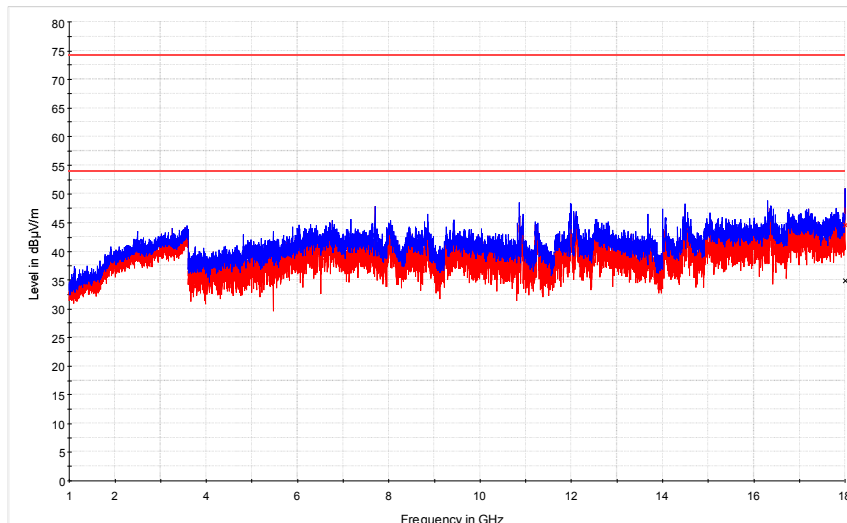
Horizontal

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Receive Mode 802.11a Radiated Emissions 1GHz – 18GHz



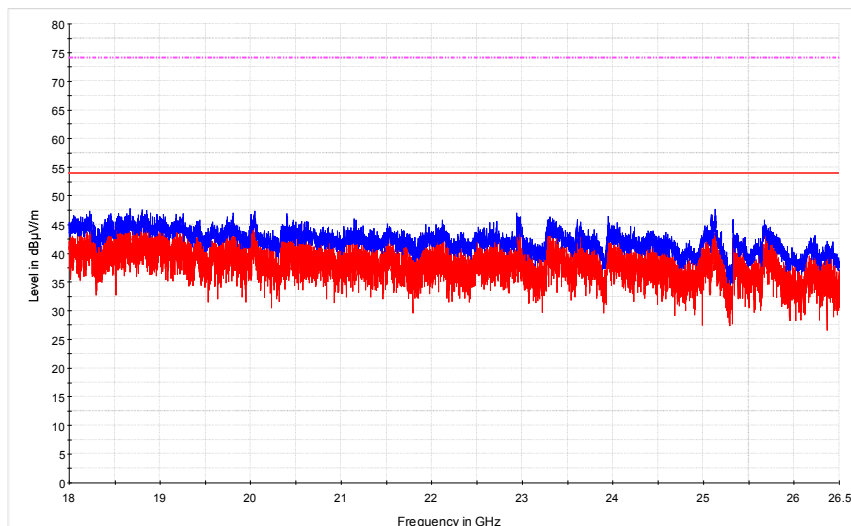
Vertical



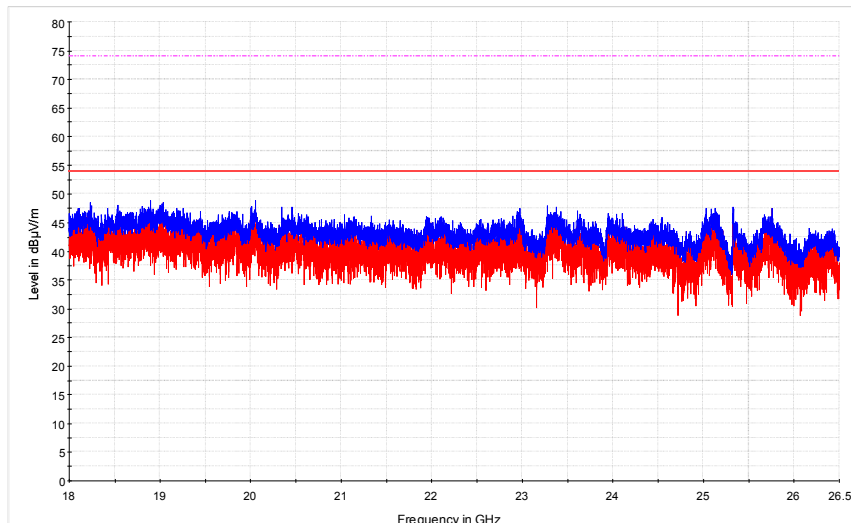
Horizontal

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Receive Mode 802.11a Radiated Emissions 18GHz – 26.5GHz



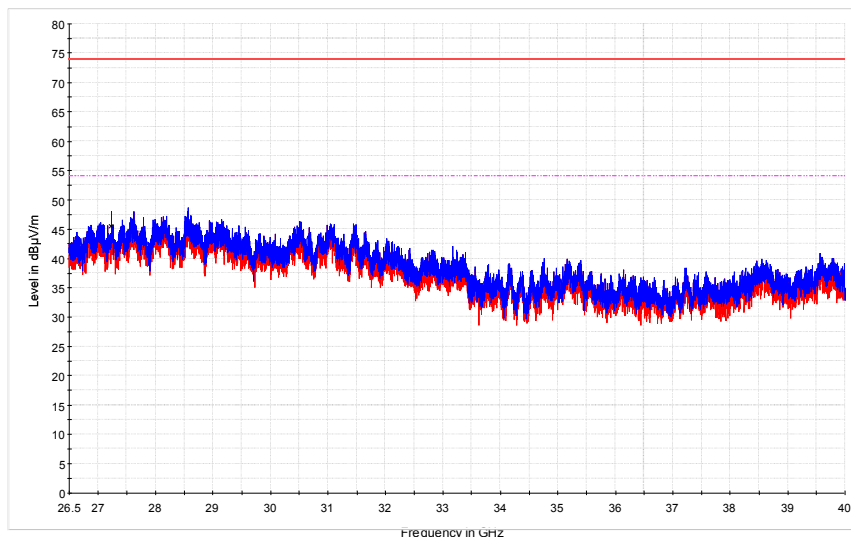
Vertical



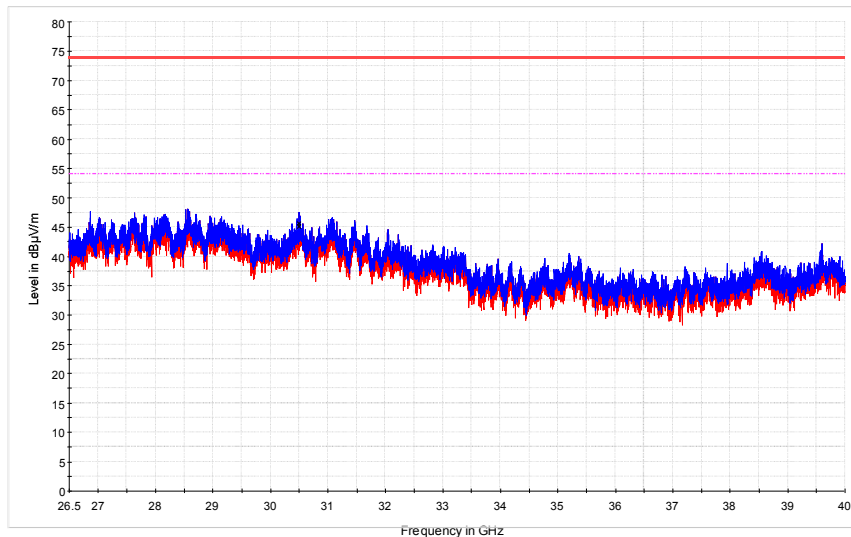
Horizontal

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Receive Mode 802.11a Radiated Emissions 26.5GHz – 40GHz



Vertical



Horizontal

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*802.11n is the Emissions in receive mode worst case							
Frequency	QuasiPeak	Height	Polarization	Azimuth	Corr.	Limit	Margin
MHz	dBμV/m	cm		deg	dB	dBμV/m	dB
33.0	25.2	100.0	V	161.0	-1.5	40	-14.8
40.9	15.9	100.0	V	54.0	-7.4	40	-24.1
60.0	15.7	100.0	V	-2.0	-12.6	40	-24.3
130.0	19.7	100.0	V	21.0	-4.8	43.5	-23.8
480.0	29.2	100.0	V	252.0	3.3	46	-16.8
295.0	23.4	100.0	V	189.0	-1.7	46	-22.6
33.0	25.2	300.0	H	161.0	-1.5	40	-14.8
40.9	15.9	270.0	H	54.0	-7.4	40	-24.1
Receive Mode 802.11n Radiated Emissions 30MHz - 1000MHz							

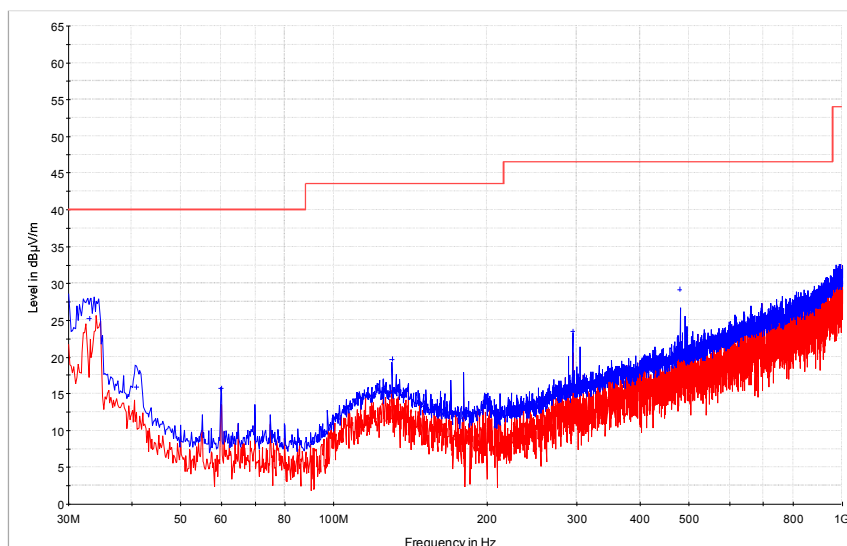
*802.11n is the Emissions in receive mode worst case							
Frequency	CAverage	Height	Polarization	Azimuth	Corr.	Limit	Margin
MHz	dBμV/m	cm		deg	dB	dBμV/m	dB
16305.0	32.9	150.0	V	270.0	14.3	54.0	-21.1
16301.8	33.1	150.0	H	180.0	14.3	54.0	-20.9
Receive Mode 802.11n Radiated Emissions 1GHz - 18GHz							

*802.11n is the Emissions in receive mode worst case							
Frequency	CAverage	Height	Polarization	Azimuth	Corr.	Limit	Margin
MHz	dBμV/m	cm		deg	dB	dBμV/m	dB
18890.0	37.7	150.0	V	305.0	20.1	54.0	-16.3
22953.0	38.3	150.0	V	348.0	20.8	54.0	-15.7
23644.8	37.8	150.0	V	348.0	20.3	54.0	-16.2
25090.7	37.2	170.0	V	2.0	20.4	54.0	-16.8
20029.8	36.9	170.0	V	180.0	19.8	54.0	-17.1
18988.6	37.6	210.0	H	258.0	20.6	54.0	-16.4
20007.7	37.0	210.0	H	358.0	20.0	54.0	-17.0
22934.2	37.9	200.0	H	360.0	20.9	54.0	-16.1
23602.4	36.7	200.0	H	2.0	19.9	54.0	-17.3
25087.3	36.9	200.0	H	180.0	20.4	54.0	-17.1
25322.8	35.4	200.0	H	359.0	20.2	54.0	-18.6
Receive Mode 802.11n Radiated Emissions 18GHz - 26.5GHz							

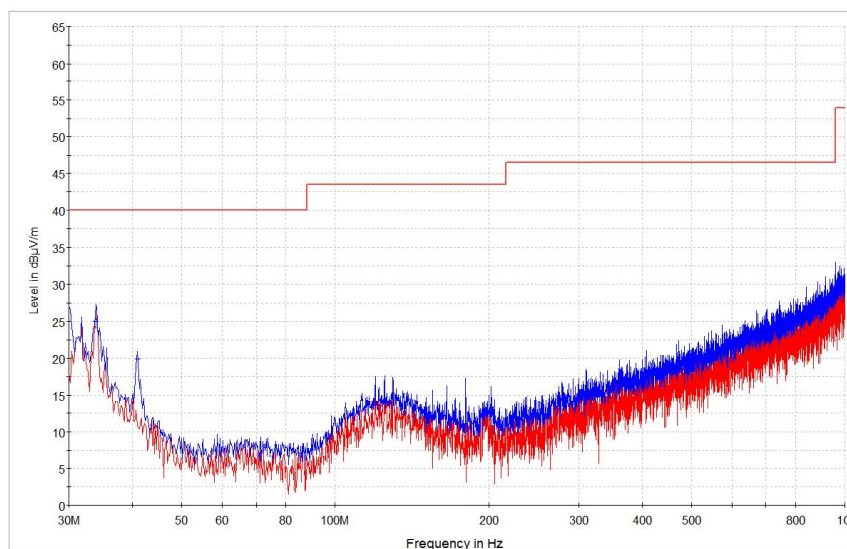
*802.11n is the Emissions in receive mode worst case							
Frequency	CAverage	Height	Polarization	Azimuth	Corr.	Limit	Margin
MHz	dBμV/m	cm		deg	dB	dBμV/m	dB
28155.0	46.0	150.0	V	2.0	0.2	54.0	-8.0
27418.0	46.4	190.0	H	2.0	1.2	54.0	-7.6
802.11n Radiated Emissions 26.5GHz - 40GHz							
Red is maximum emission for 802.11n							

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Receive Mode 802.11n Radiated Emissions 30MHz – 1GHz



Vertical

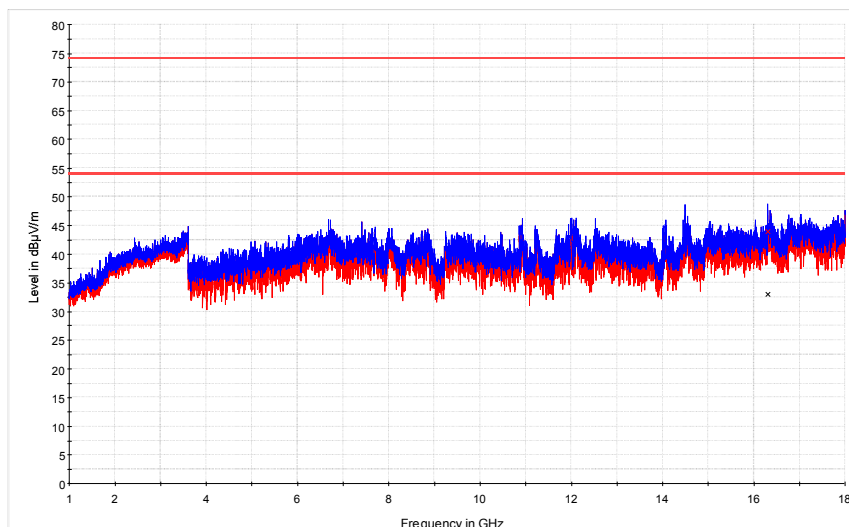


Horizontal

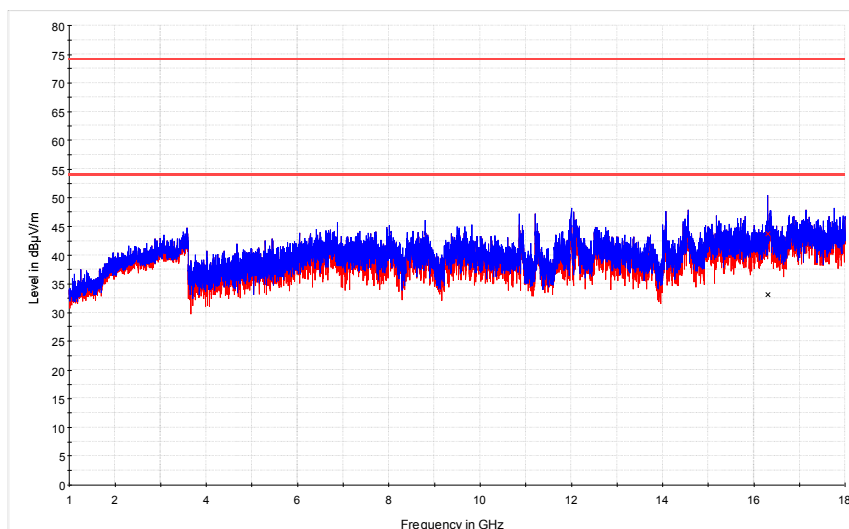
***802.11n is the Emissions in receive mode worst case**

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Receive Mode 802.11n HT20 Radiated Emissions 1GHz – 18GHz



Vertical

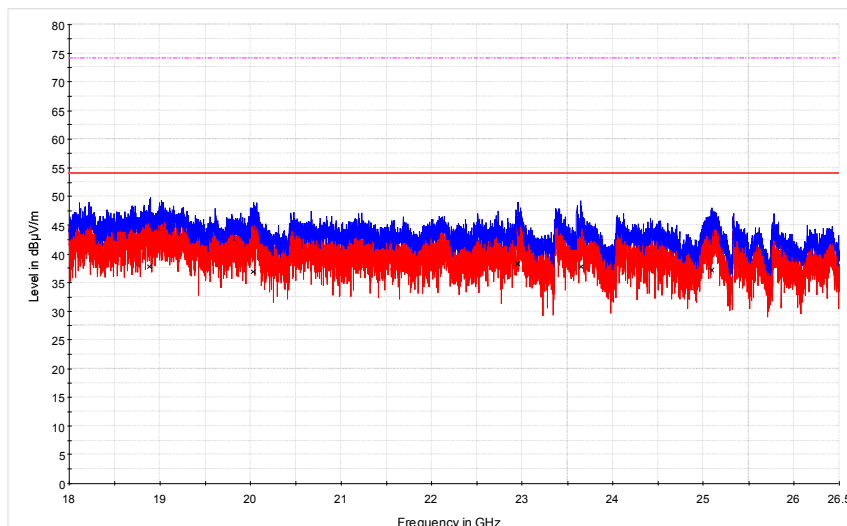


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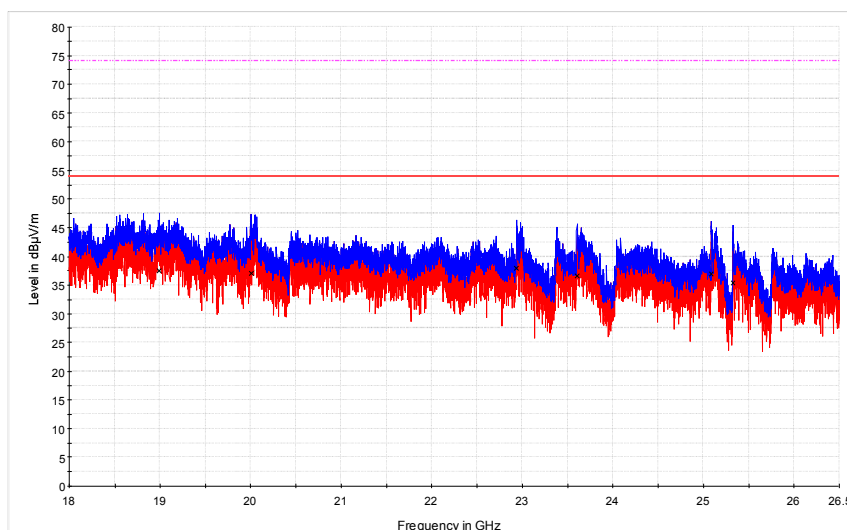
*802.11n is the Emissions in receive mode worst case

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Receive Mode 802.11n HT20 Radiated Emissions 18GHz – 26.5GHz



Vertical



Horizontal

***802.11n is the Emissions in receive mode worst case**

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