



7.6. Radiated Spurious Emission

Requirements

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Test Procedures

Configure the EUT according to ANSI C63.10. The EUT is placed on a non-conducting turntable 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The turntable is rotated through 360 degrees to find out the maximum radiated emission level. The antenna is scanned from 1 to 4 meters and polarized in both the vertical and the horizontal polarizations to find out the maximum radiated emission level. The antenna to EUT distance is 3 meters.

[For below 1 GHz]

Use 100kHz RBW and 300kHz VBW 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

[For above 1 GHz]

Use 1MHz RBW, 3MHz VBW and peak detector for peak measurements; 1MHz RBW, 3MHz VBW and RMS detector for average measurements.

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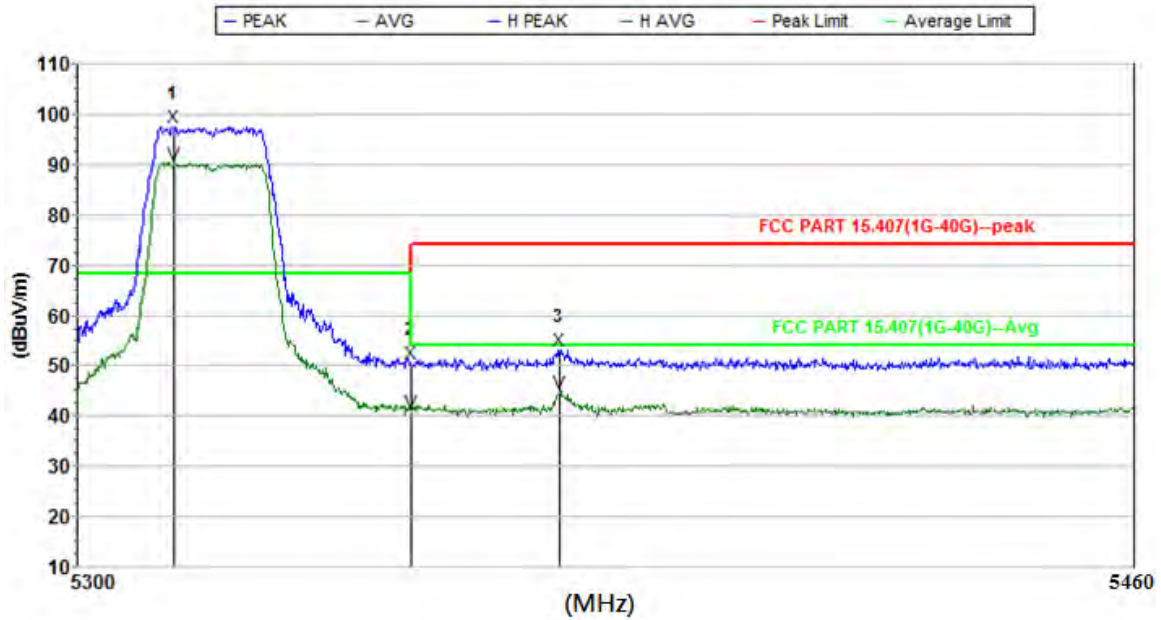
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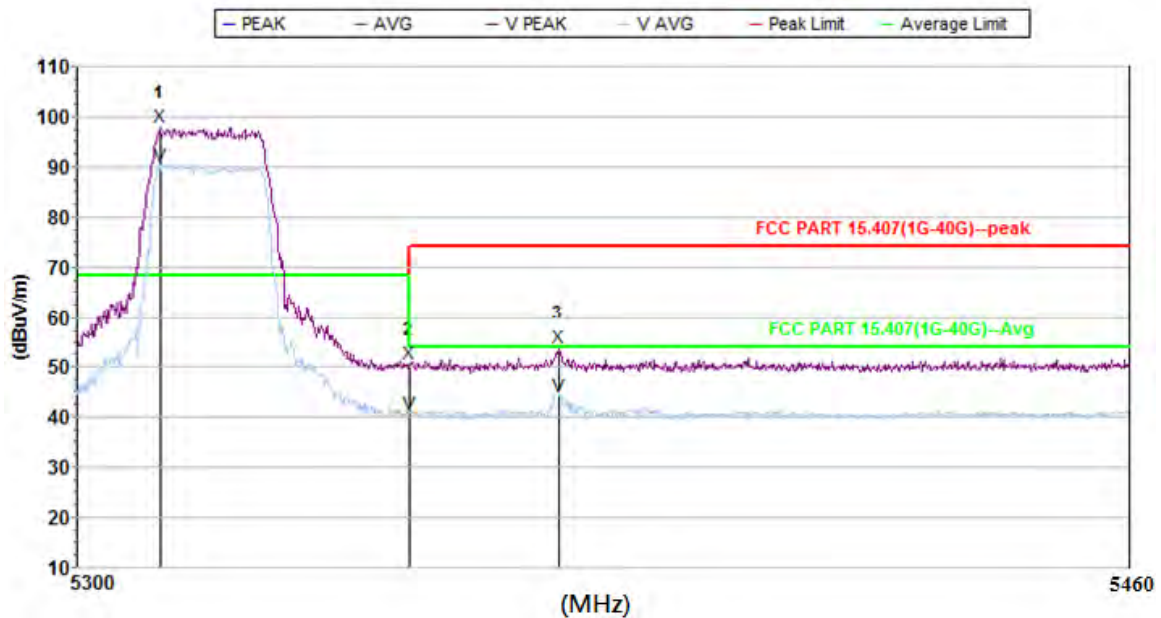


Test Data

Restricted Bandedge 802.11a Chain 0 Ch 64 5320MHz Horizontal



Restricted Bandedge 802.11a Chain 0 Ch 64 5320MHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5314.400	97.5	-	-	31.8	42.1	7.0	10.0	H
2	5350.000	50.5	74.0	23.5	31.9	42.1	7.0	10.0	H
3	5372.480	53.2	74.0	20.8	31.9	42.1	7.0	10.0	H
Avg									
1 F	5314.400	89.9	-	-	31.8	42.1	7.0	10.0	H
2	5350.000	40.9	54.0	13.1	31.9	42.1	7.0	10.0	H
3	5372.480	44.7	54.0	9.3	31.9	42.1	7.0	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5312.480	98.1	-	-	31.8	42.1	7.0	10.0	V
2	5350.000	50.8	74.0	23.2	31.9	42.1	7.0	10.0	V
3	5372.800	54.1	74.0	19.9	31.9	42.1	7.0	10.0	V
Avg									
1 F	5312.480	90.1	-	-	31.8	42.1	7.0	10.0	V
2	5350.000	40.6	54.0	13.4	31.9	42.1	7.0	10.0	V
3	5372.800	44.3	54.0	9.7	31.9	42.1	7.0	10.0	V

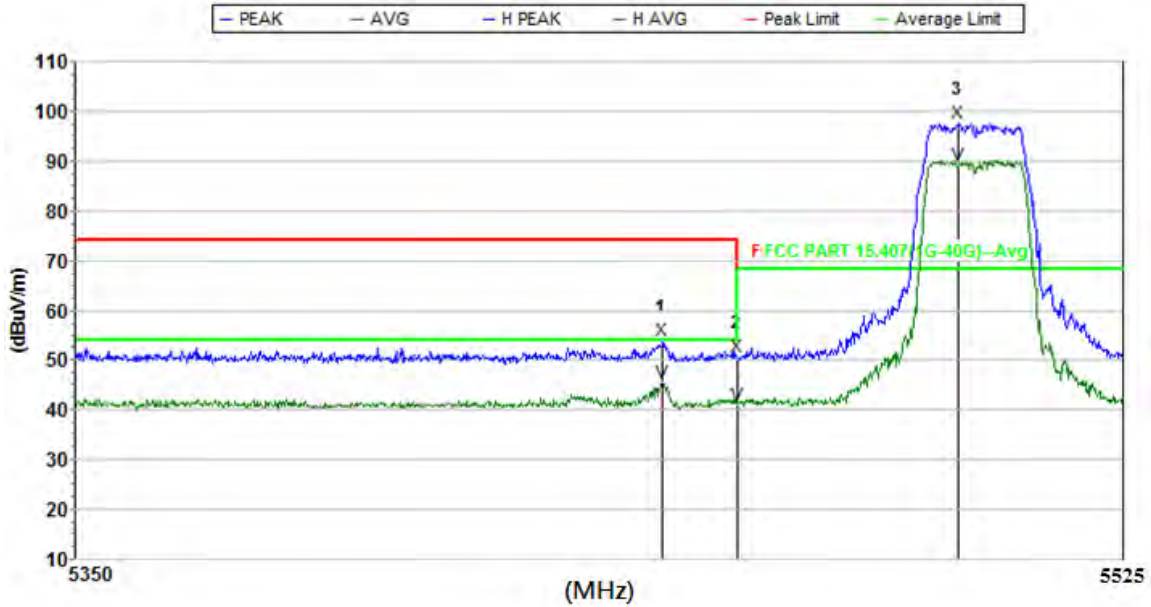
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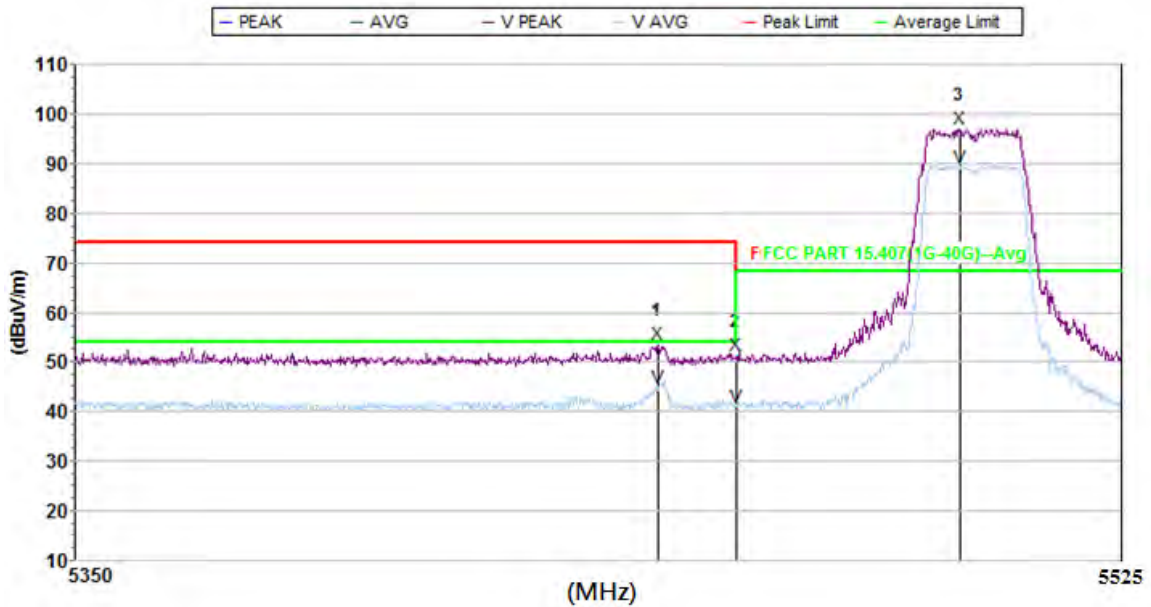
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Restricted Bandedge 802.11a Chain 0 Ch 100 5500MHz Horizontal



Restricted Bandedge 802.11a Chain 0 Ch 100 5500MHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	5447.475	54.1	74.0	19.9	31.9	42.1	7.2	10.0	H
2	5460.000	50.7	74.0	23.3	32.0	42.1	7.2	10.0	H
3 F	5497.175	97.6	-	-	32.0	42.1	7.3	10.0	H
Avg									
1	5447.475	45.5	54.0	8.5	31.9	42.1	7.2	10.0	H
2	5460.000	41.2	54.0	12.8	32.0	42.1	7.2	10.0	H
3 F	5497.175	89.3	-	-	32.0	42.1	7.3	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	5446.950	53.6	74.0	20.4	31.9	42.1	7.2	10.0	V
2	5460.000	51.3	74.0	22.7	32.0	42.1	7.2	10.0	V
3 F	5497.700	97.1	-	-	32.0	42.1	7.3	10.0	V
Avg									
1	5446.950	45.0	54.0	9.0	31.9	42.1	7.2	10.0	V
2	5460.000	41.1	54.0	12.9	32.0	42.1	7.2	10.0	V
3 F	5497.700	89.3	-	-	32.0	42.1	7.3	10.0	V

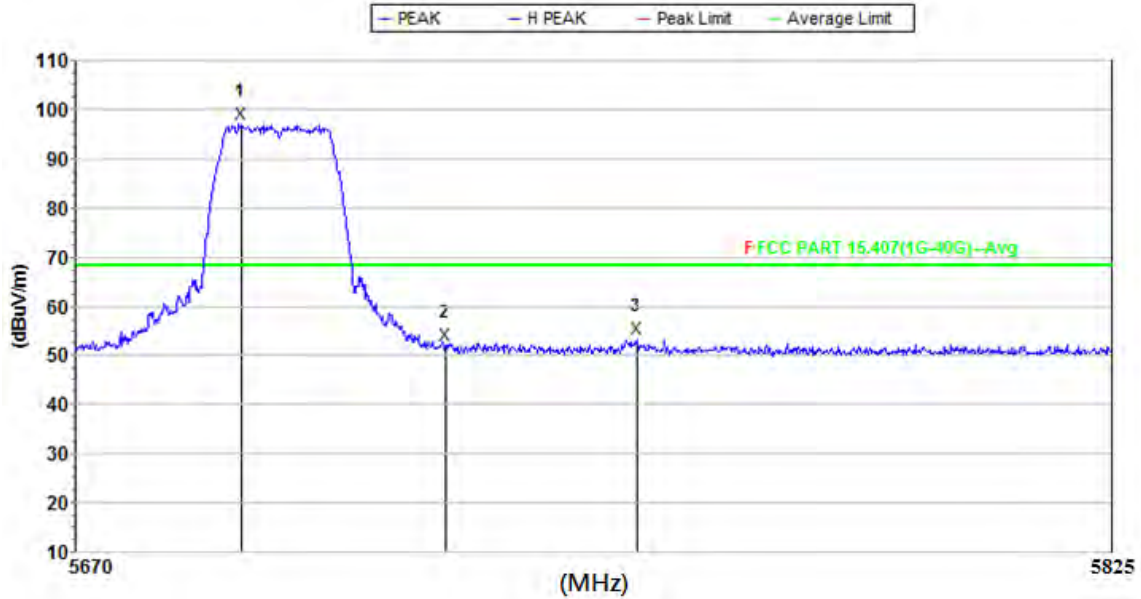
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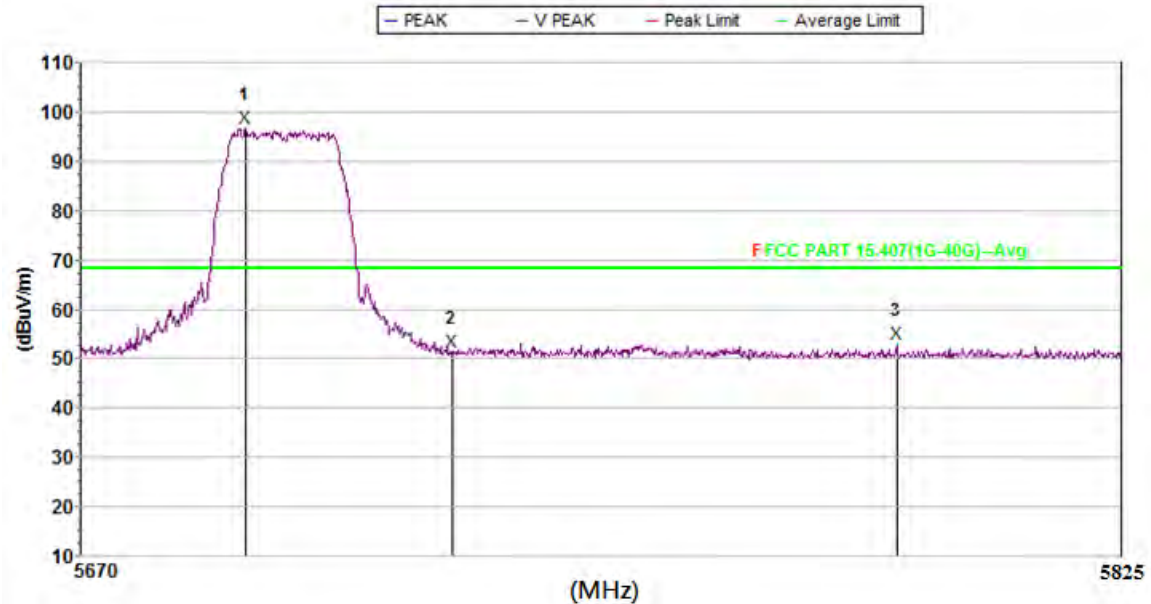
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Restricted Bandedge 802.11a Chain 0 Ch 140 5700MHz Horizontal



Restricted Bandedge 802.11a Chain 0 Ch 140 5700MHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5694.645	97.1	-	-	32.3	42.2	7.7	10.0	H
2	5725.000	52.2	68.2	16.0	32.3	42.2	7.6	10.0	H
3	5753.390	53.3	68.2	14.9	32.4	42.2	7.5	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5694.335	96.6	-	-	32.3	42.2	7.7	10.0	V
2	5725.000	51.3	68.2	16.9	32.3	42.2	7.6	10.0	V
3	5791.210	52.9	68.2	15.3	32.4	42.2	7.4	10.0	V

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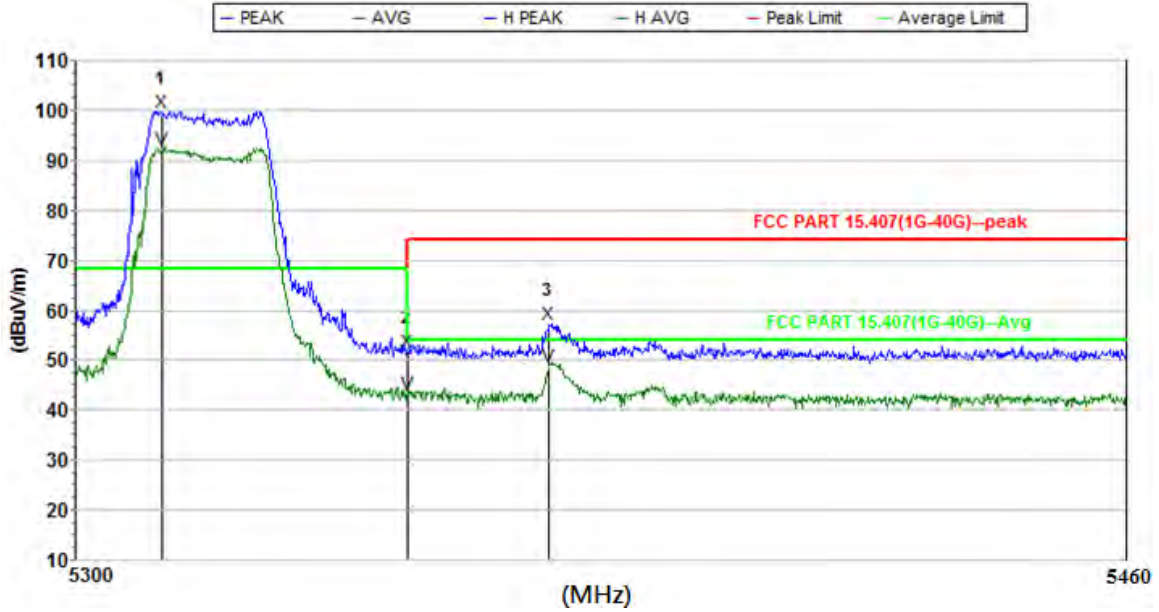
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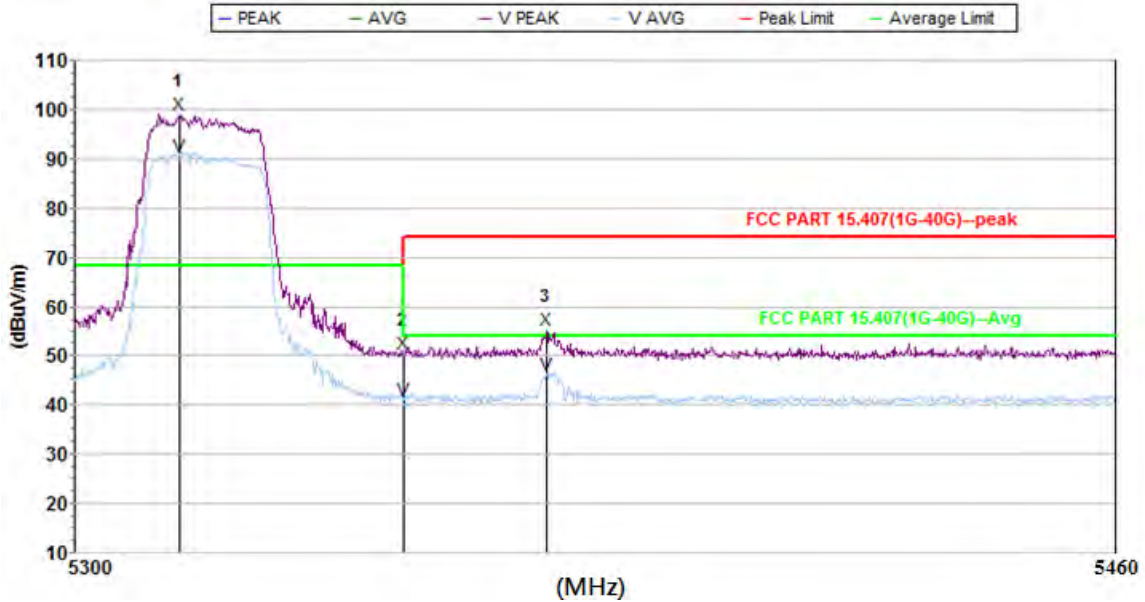
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Restricted Bandedge 802.11n HT20 Ch 64 5320MHz Horizontal



Restricted Bandedge 802.11n HT20 Ch 64 5320MHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5312.960	99.8	-	-	31.8	42.1	7.0	10.0	H
2	5350.000	51.8	74.0	22.2	31.9	42.1	7.0	10.0	H
3	5371.520	57.2	74.0	16.8	31.9	42.1	7.0	10.0	H
Avg									
1 F	5312.960	92.3	-	-	31.8	42.1	7.0	10.0	H
2	5350.000	43.4	54.0	10.6	31.9	42.1	7.0	10.0	H
3	5371.520	48.7	54.0	5.3	31.9	42.1	7.0	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5316.000	99.0	-	-	31.8	42.1	7.0	10.0	V
2	5350.000	50.3	74.0	23.7	31.9	42.1	7.0	10.0	V
3	5372.000	55.2	74.0	18.8	31.9	42.1	7.0	10.0	V
Avg									
1 F	5316.000	90.7	-	-	31.8	42.1	7.0	10.0	V
2	5350.000	41.2	54.0	12.8	31.9	42.1	7.0	10.0	V
3	5372.000	46.1	54.0	7.9	31.9	42.1	7.0	10.0	V

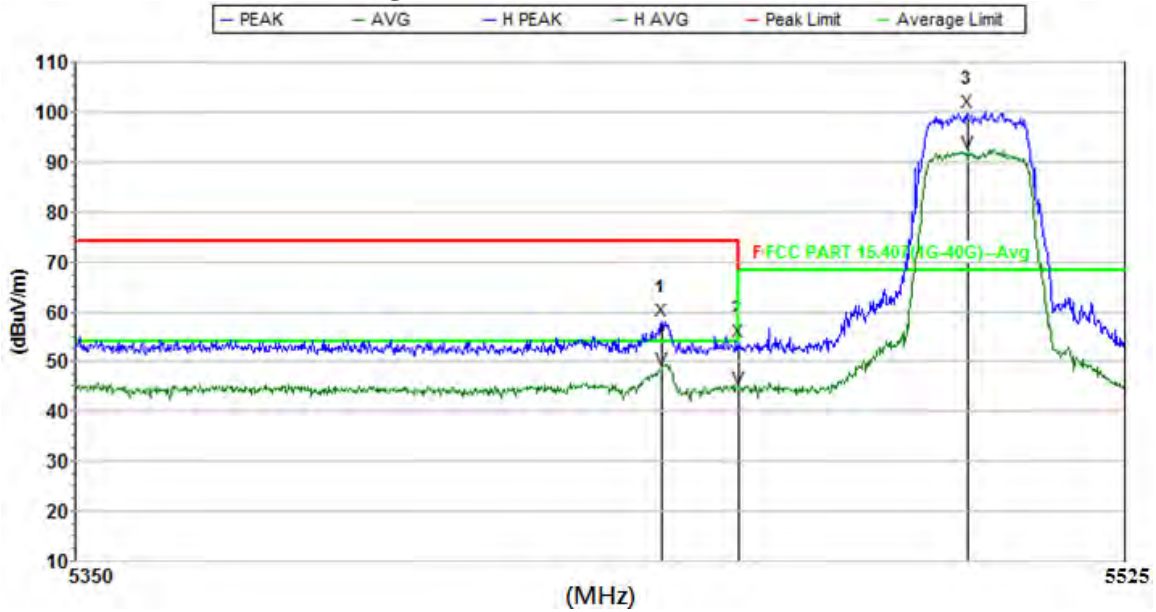
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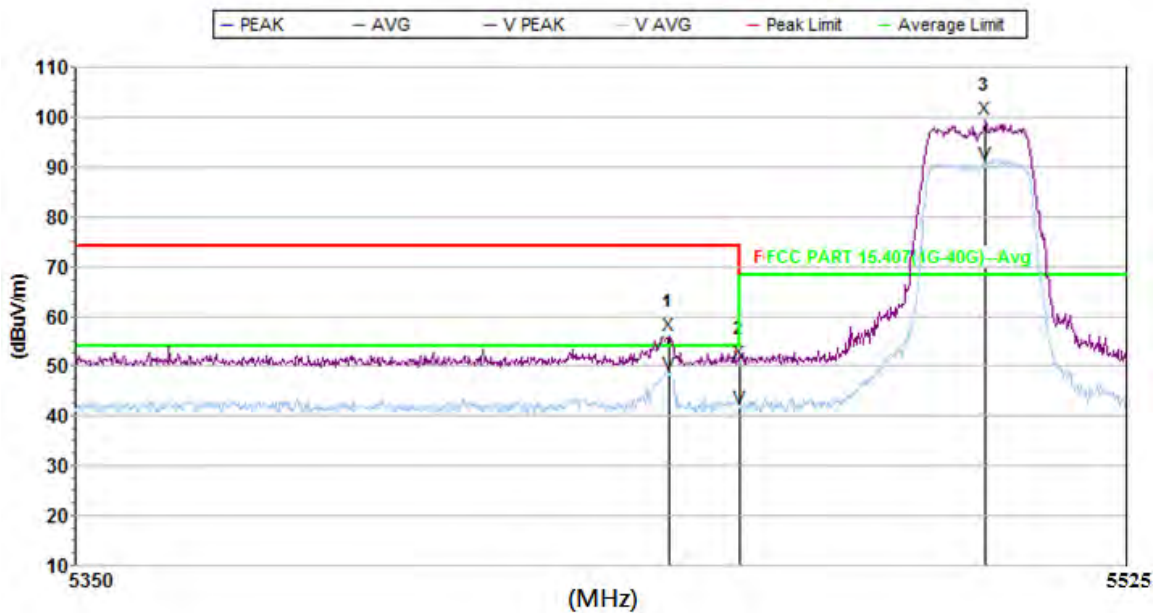
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Restricted Bandedge 802.11n HT20 Ch 100 5500MHz Horizontal



Restricted Bandedge 802.11n HT20 Ch 100 5500MHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	5447.125	58.1	74.0	15.9	31.9	42.1	7.2	10.0	H
2	5460.000	53.9	74.0	20.1	32.0	42.1	7.2	10.0	H
3 F	5498.400	100.0	-	-	32.0	42.1	7.3	10.0	H
Avg									
1	5447.125	48.6	54.0	5.4	31.9	42.1	7.2	10.0	H
2	5460.000	44.6	54.0	9.4	32.0	42.1	7.2	10.0	H
3 F	5498.400	91.9	-	-	32.0	42.1	7.3	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	5448.175	56.2	74.0	17.8	31.9	42.1	7.2	10.0	V
2	5460.000	50.9	74.0	23.1	32.0	42.1	7.2	10.0	V
3 F	5501.200	99.6	-	-	32.0	42.1	7.3	10.0	V
Avg									
1	5448.175	48.4	54.0	5.6	31.9	42.1	7.2	10.0	V
2	5460.000	41.6	54.0	12.4	32.0	42.1	7.2	10.0	V
3 F	5501.200	90.6	-	-	32.0	42.1	7.3	10.0	V

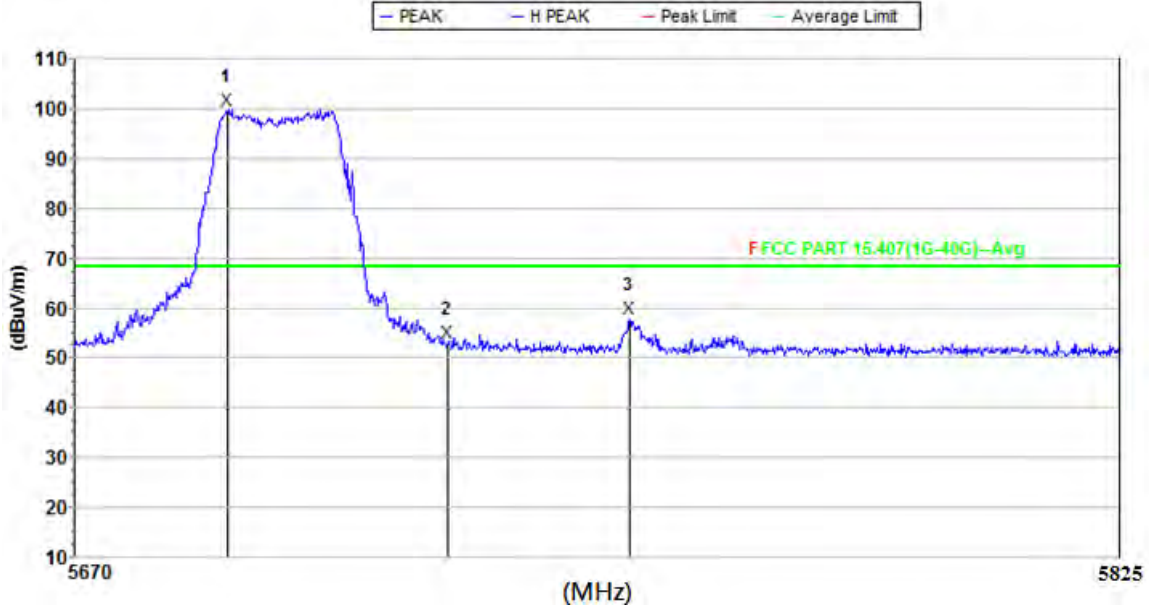
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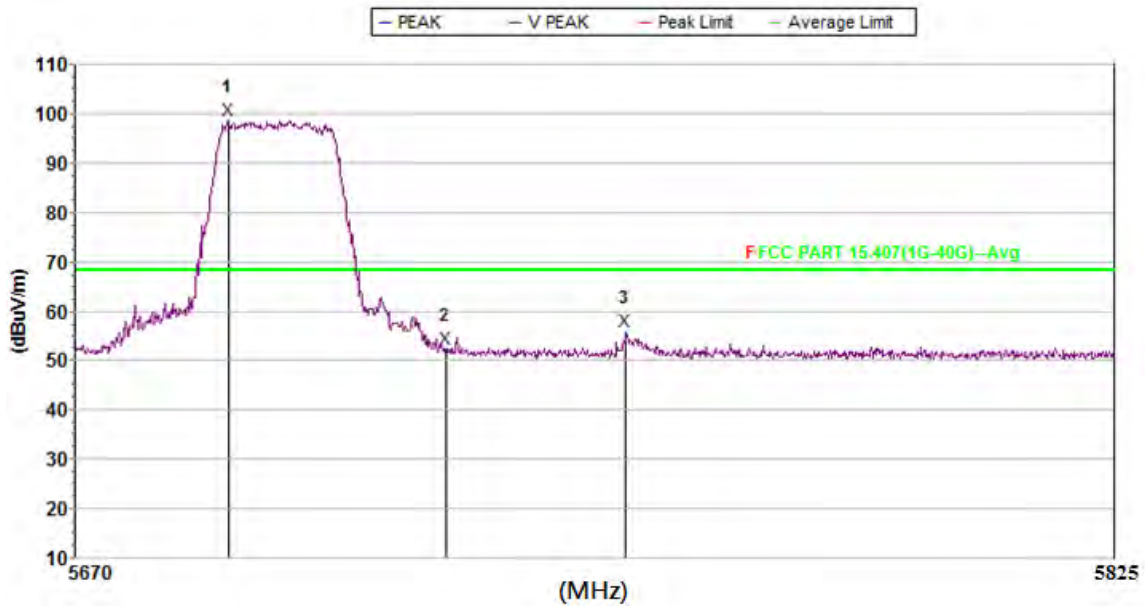
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Restricted Bandedge 802.11n HT20 Ch 140 5700MHz Horizontal



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Peak:									
1 F	5692.475	99.7	-	-	32.3	42.2	7.7	10.0	H
2	5725.000	53.1	68.2	15.1	32.3	42.2	7.6	10.0	H
3	5751.840	58.0	68.2	10.2	32.4	42.2	7.5	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5692.630	98.7	-	-	32.3	42.2	7.7	10.0	V
2	5725.000	52.3	68.2	15.9	32.3	42.2	7.6	10.0	V
3	5751.685	56.0	68.2	12.2	32.4	42.2	7.5	10.0	V

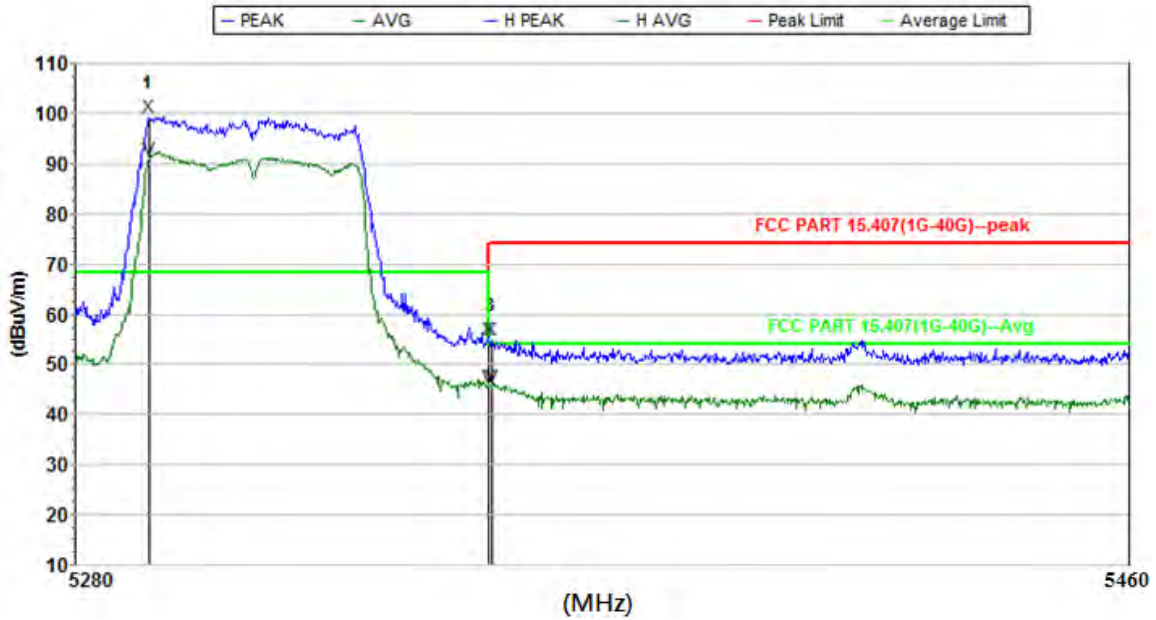
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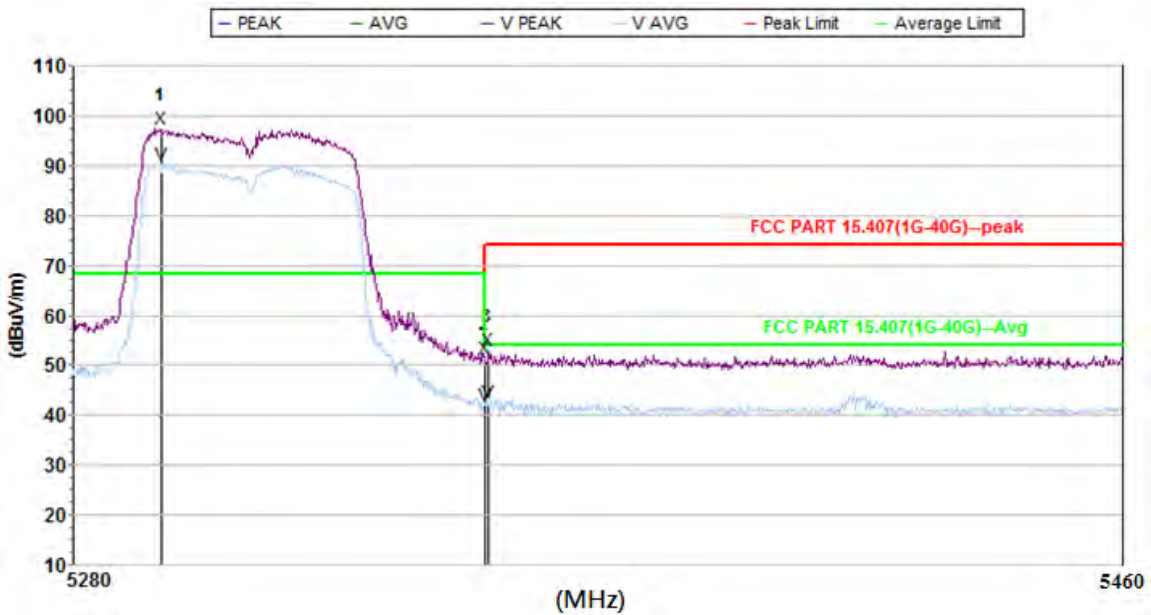
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Restricted Bandedge 802.11n HT40 Ch 62 5310MHz Horizontal



Restricted Bandedge 802.11n HT40 Ch 62 5310MHz Vertical



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Peak:									
1 F	5292.420	99.2	-	-	31.8	42.0	7.0	10.0	H
2	5350.000	55.0	74.0	19.0	31.9	42.1	7.0	10.0	H
3	5350.380	55.0	74.0	19.0	31.9	42.1	7.0	10.0	H
Avg									
1 F	5292.420	90.9	-	-	31.8	42.0	7.0	10.0	H
2	5350.000	45.6	54.0	8.4	31.9	42.1	7.0	10.0	H
3	5350.380	45.6	54.0	8.4	31.9	42.1	7.0	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5294.760	97.5	-	-	31.8	42.0	7.0	10.0	V
2	5350.000	51.3	74.0	22.7	31.9	42.1	7.0	10.0	V
3	5350.560	53.1	74.0	20.9	31.9	42.1	7.0	10.0	V
Avg									
1 F	5294.760	90.2	-	-	31.8	42.0	7.0	10.0	V
2	5350.000	42.1	54.0	11.9	31.9	42.1	7.0	10.0	V
3	5350.560	42.8	54.0	11.2	31.9	42.1	7.0	10.0	V

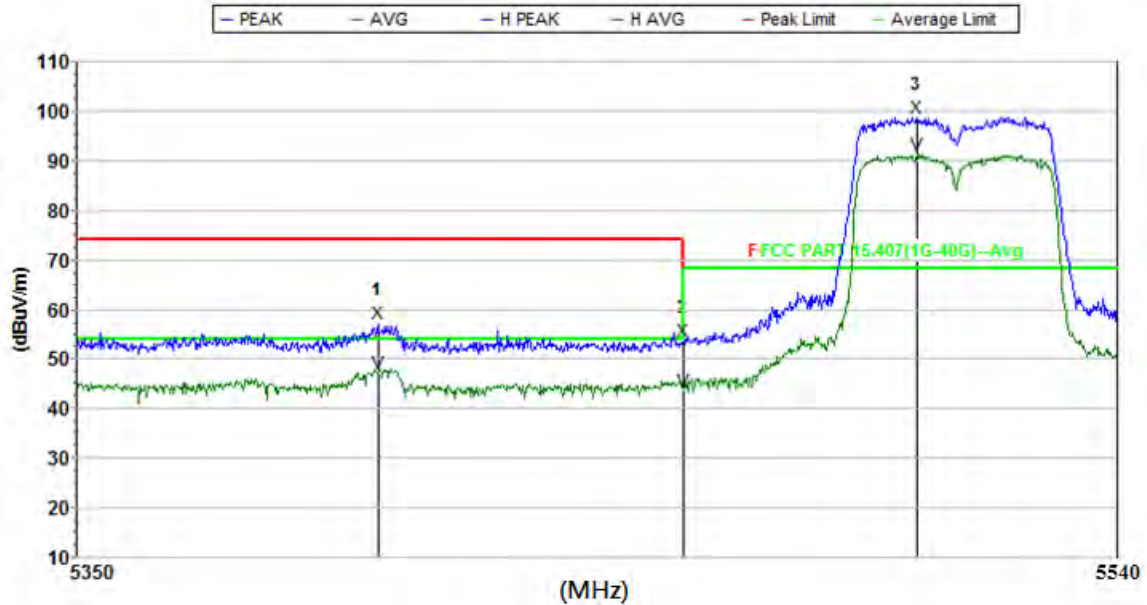
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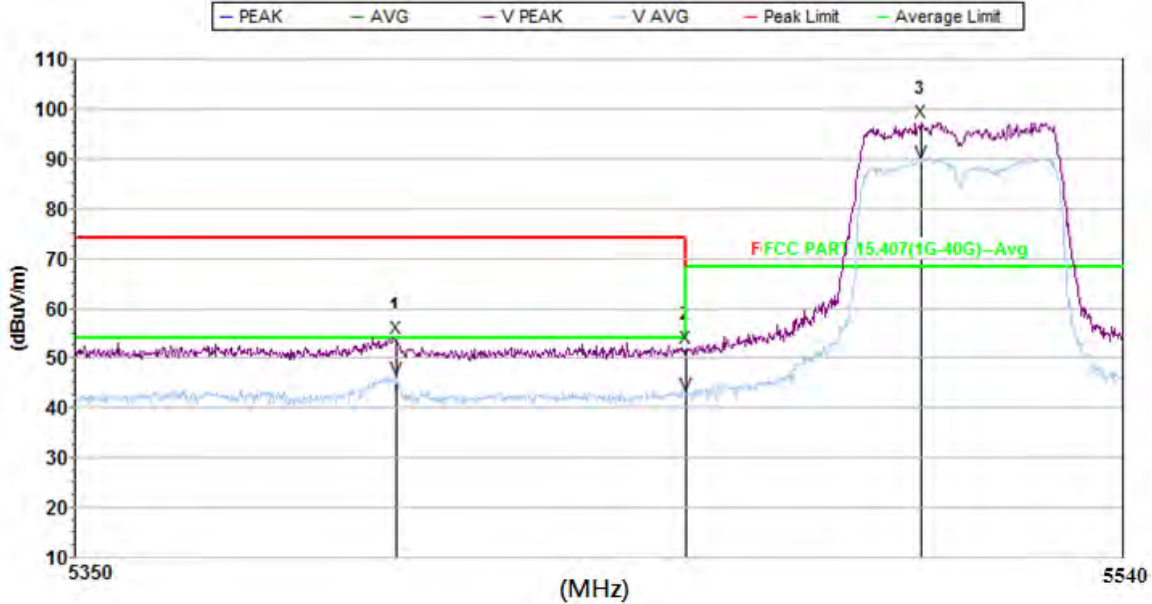
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Restricted Bandedge 802.11n HT40 Ch 102 5510MHz Horizontal



Restricted Bandedge 802.11n HT40 Ch 102 5510MHz Vertical



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Peak:									
1	5404.340	57.2	74.0	16.8	31.9	42.1	7.0	10.0	H
2	5460.000	53.8	74.0	20.2	32.0	42.1	7.2	10.0	H
3 F	5502.950	98.7	-	-	32.0	42.1	7.3	10.0	H
Avg									
1	5404.340	47.2	54.0	6.8	31.9	42.1	7.0	10.0	H
2	5460.000	43.7	54.0	10.3	32.0	42.1	7.2	10.0	H
3 F	5502.950	91.1	-	-	32.0	42.1	7.3	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	5407.570	54.1	74.0	19.9	31.9	42.1	7.1	10.0	V
2	5460.000	52.1	74.0	21.9	32.0	42.1	7.2	10.0	V
3 F	5502.950	97.3	-	-	32.0	42.1	7.3	10.0	V
Avg									
1	5407.570	45.9	54.0	8.1	31.9	42.1	7.1	10.0	V
2	5460.000	42.8	54.0	11.2	32.0	42.1	7.2	10.0	V
3 F	5502.950	89.3	-	-	32.0	42.1	7.3	10.0	V

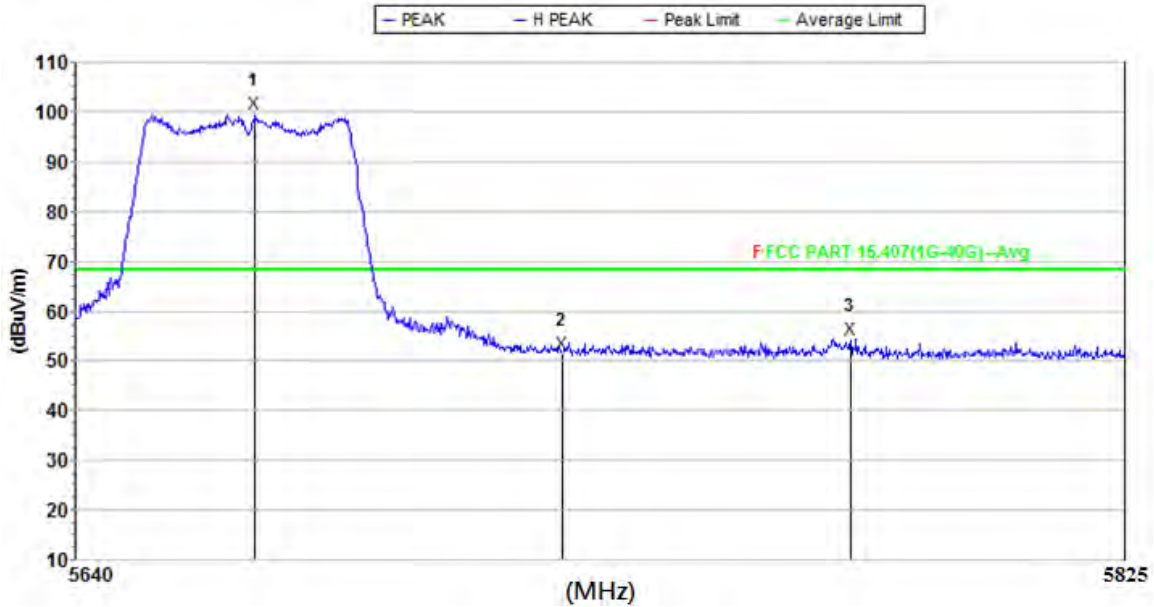
EMC Lab.

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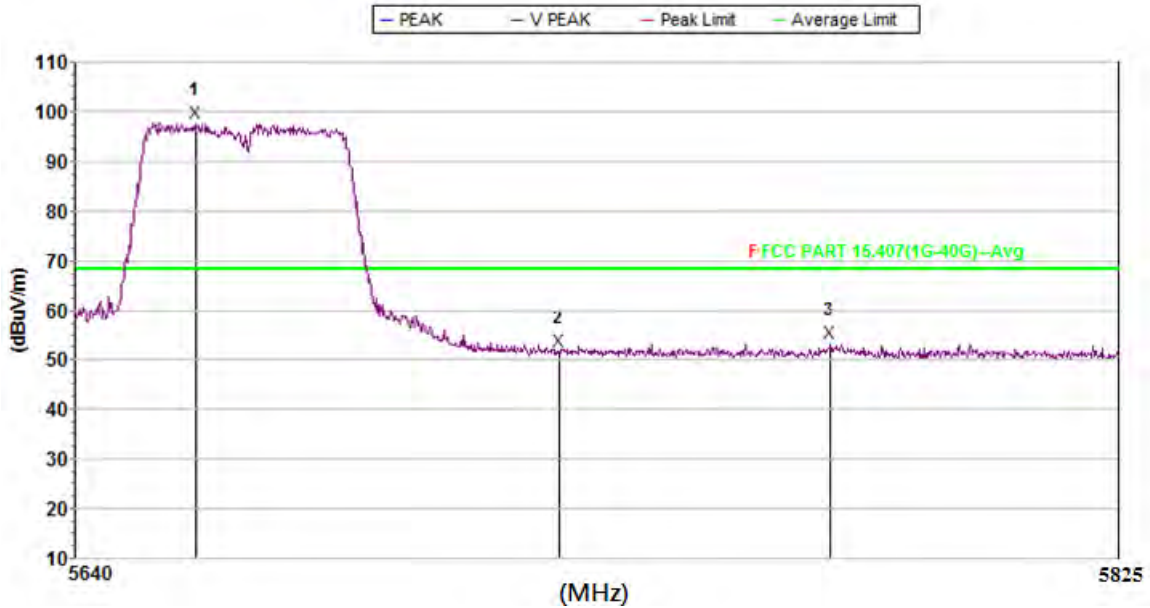
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
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Restricted Bandedge 802.11n HT40 Ch 134 5670MHz Horizontal



Restricted Bandedge 802.11n HT40 Ch 134 5670MHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5671.265	99.8	-	-	32.2	42.2	7.6	10.0	H
2	5725.000	51.5	68.2	16.7	32.3	42.2	7.6	10.0	H
3	5776.160	54.4	68.2	13.8	32.4	42.2	7.4	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1 F	5661.090	97.8	-	-	32.2	42.2	7.6	10.0	V
2	5725.000	51.8	68.2	16.4	32.3	42.2	7.6	10.0	V
3	5773.385	53.5	68.2	14.7	32.4	42.2	7.5	10.0	V

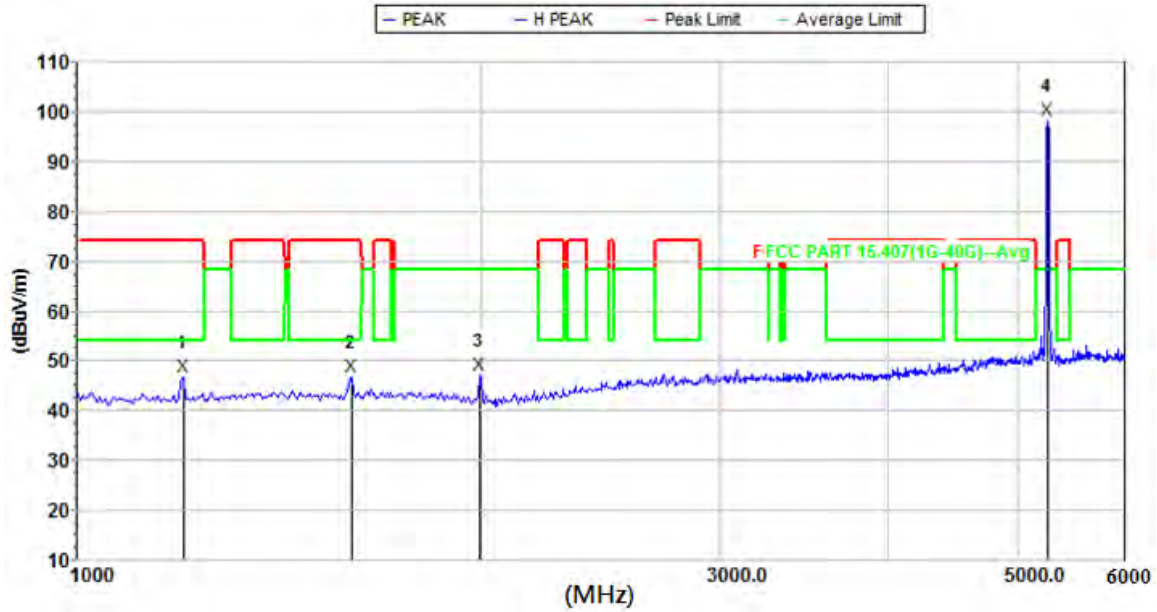
EMC Lab.

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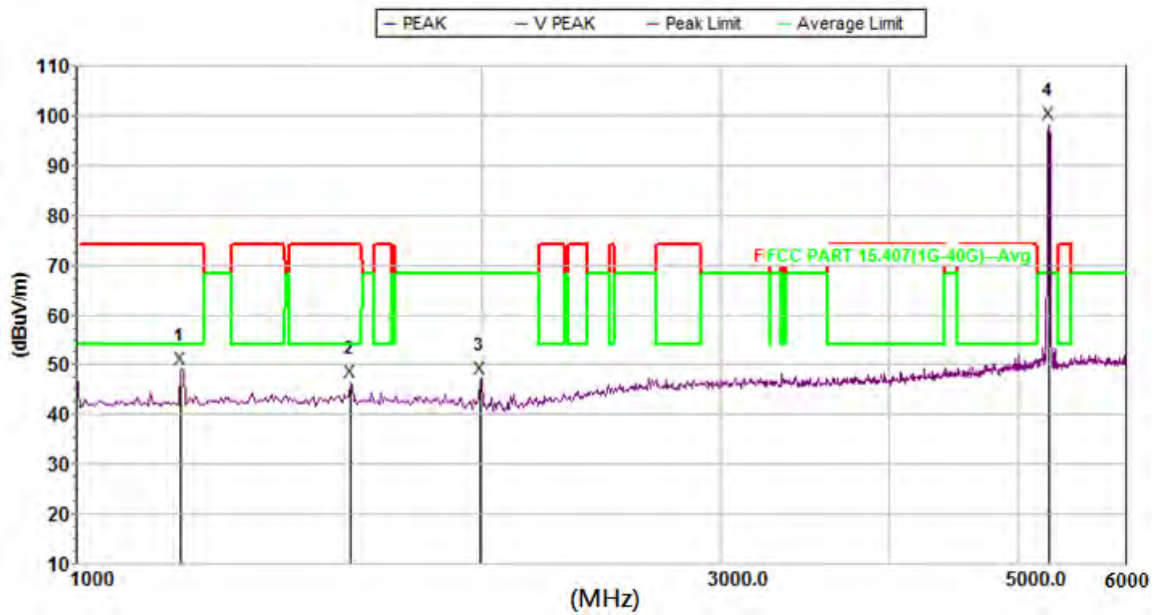
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
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Spurious Emission 802.11a Chain 0 Ch 52 5260MHz 1-6GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 52 5260MHz 1-6GHz Vertical



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Issued date : 2017/11/24

FCC ID : A43-WISP5

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	46.8	74.0	27.2	25.0	40.2	3.0	10.0	H
2	1600.000	46.8	74.0	27.2	25.7	40.3	3.5	10.0	H
3	1990.000	47.1	68.2	21.1	26.1	40.4	4.1	10.0	H
4 F	5260	98.4	-	-	31.8	42.0	6.9	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	49.2	74.0	24.8	25.0	40.2	3.0	10.0	V
2	1595.000	46.7	74.0	27.3	25.7	40.3	3.5	10.0	V
3	1995.000	47.3	68.2	20.9	26.1	40.4	4.1	10.0	V
4 F	5260	98.3	-	-	31.8	42.0	6.9	10.0	V

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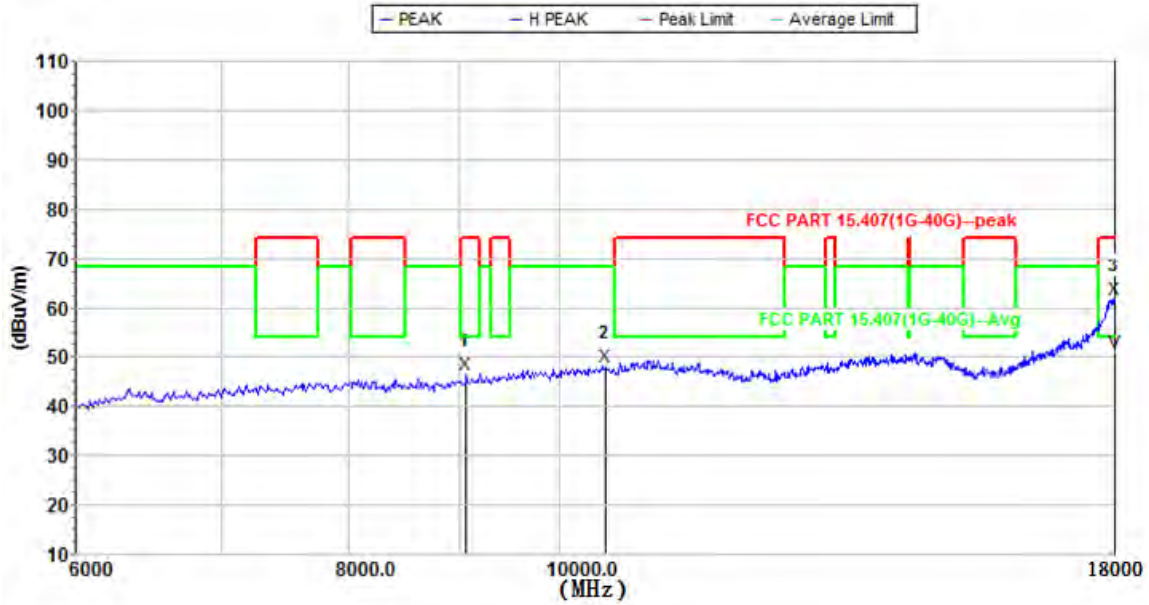
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,

Telephone :+886-2-7737-3000

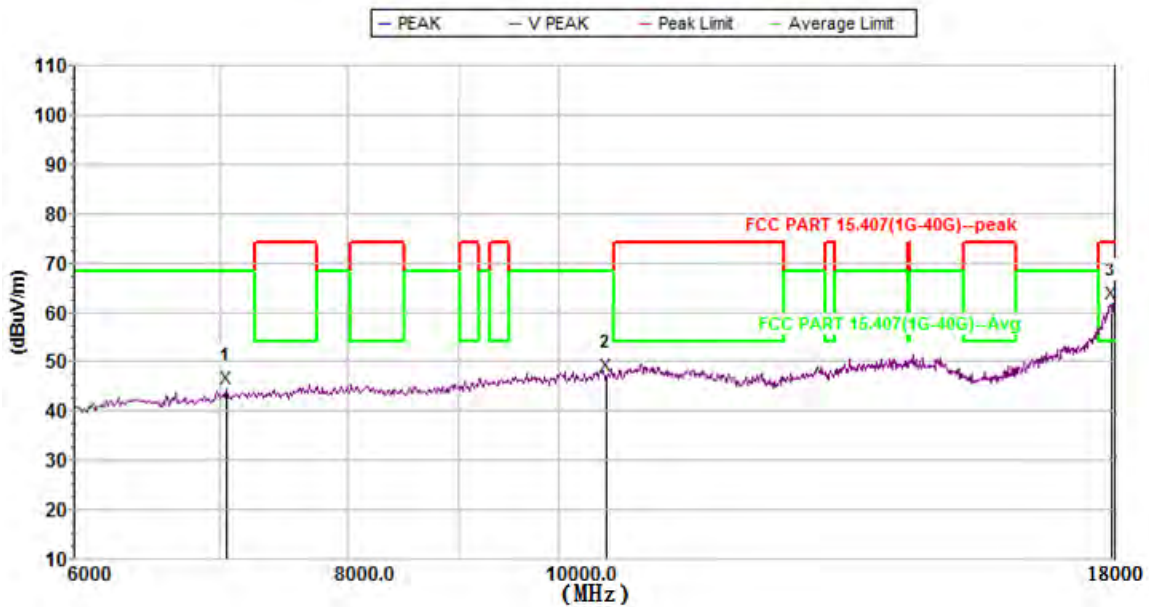
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11a Chain 0 Ch 52 5260MHz 6-18GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 52 5260MHz 6-18GHz Vertical



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Facsimile (FAX) : +886-2-7737-3610



Test report No. : 4788166493A-US-R4-V0
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9072.000	46.7	74.0	27.3	37.5	42.0	7.8	0.4	H
2	10520	48.3	68.2	19.9	39.6	42.0	9.2	0.3	H
3	17988.000	61.9	74.0	12.1	48.9	41.3	12.3	5.9	H
Avg									
1	17988.000	51.2	54.0	2.8	48.9	41.3	12.3	5.9	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	7044.000	44.6	68.2	23.6	35.6	42.2	7.2	0.3	V
2	10520.000	47.2	68.2	21.0	39.6	42.0	9.2	0.3	V
3	17928.000	61.8	74.0	12.2	48.1	41.2	13.3	5.8	V
Avg									
1	17928.000	51.28	54.0	2.7	48.1	41.2	13.3	5.8	V

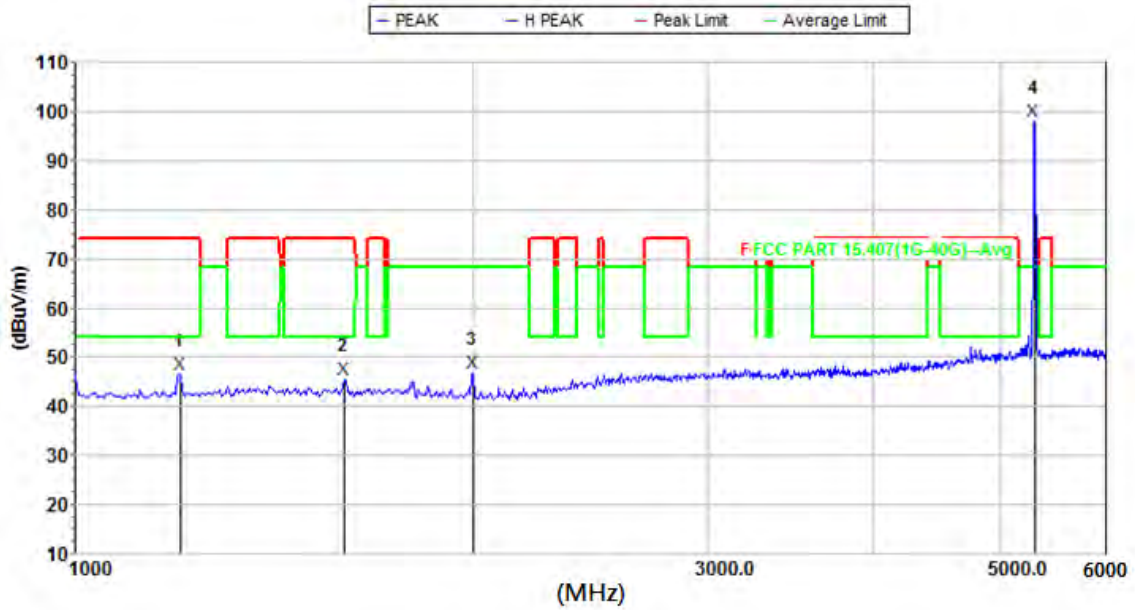
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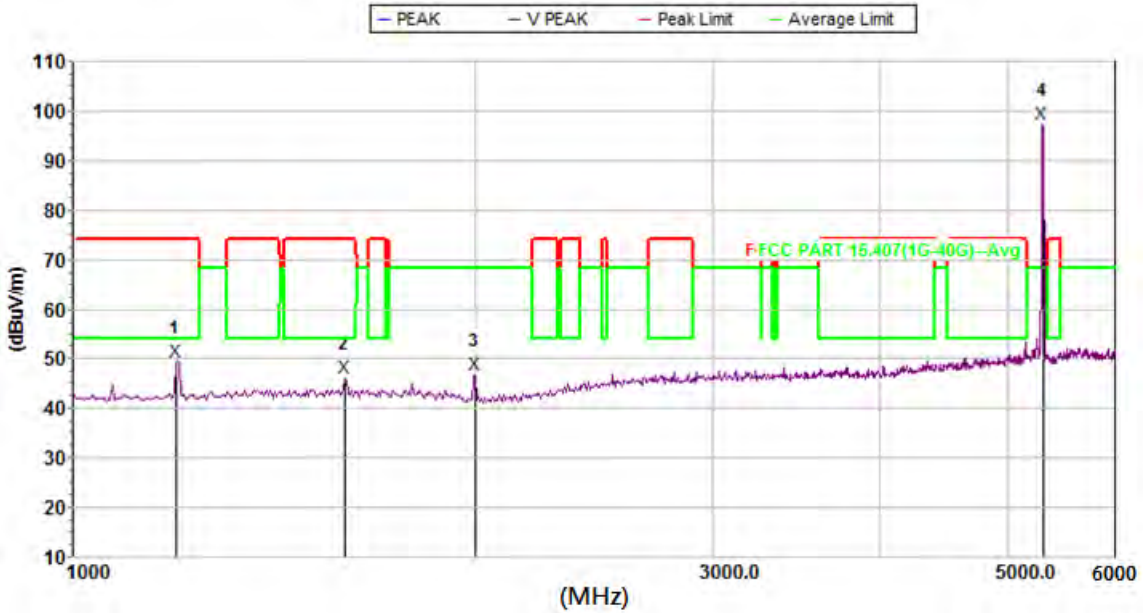
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
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Spurious Emission 802.11a Chain 0 Ch 60 5300MHz 1-6GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 60 5300MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	46.5	74.0	27.5	25.0	40.2	3.0	10.0	H
2	1595.000	45.5	74.0	28.5	25.7	40.3	3.5	10.0	H
3	2000.000	46.9	68.2	21.3	26.1	40.4	4.1	10.0	H
4 F	5300	98.1	-	-	31.8	42.0	7.0	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	49.4	74.0	24.6	25.0	40.2	3.0	10.0	V
2	1595.000	46.1	74.0	27.9	25.7	40.3	3.5	10.0	V
3	2000.000	47.0	68.2	21.2	26.1	40.4	4.1	10.0	V
4 F	5300	97.4	-	-	31.8	42.0	7.0	10.0	V

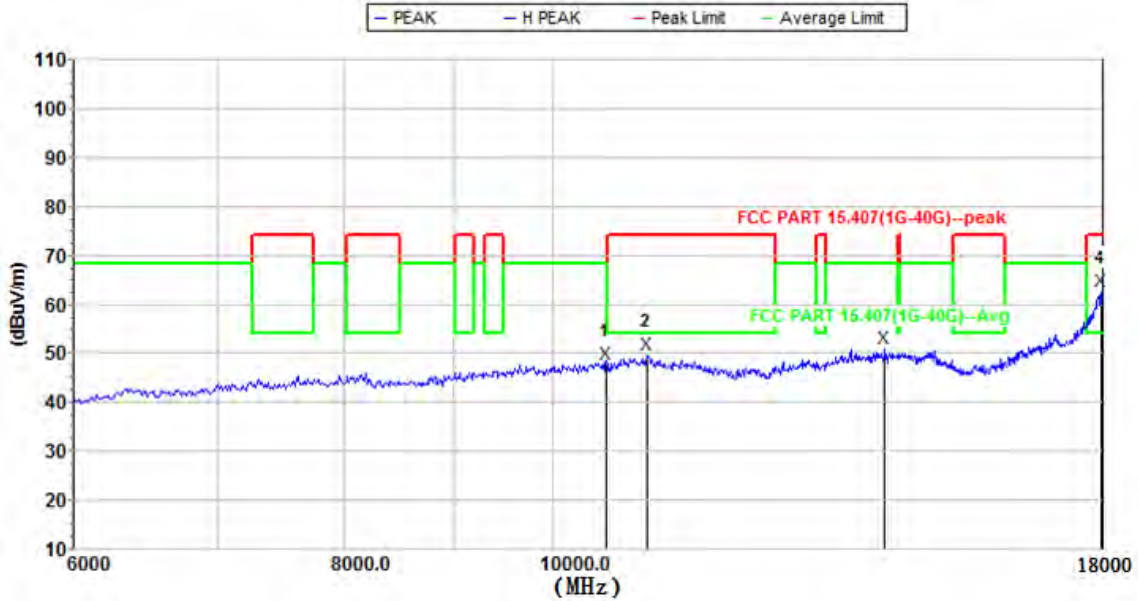
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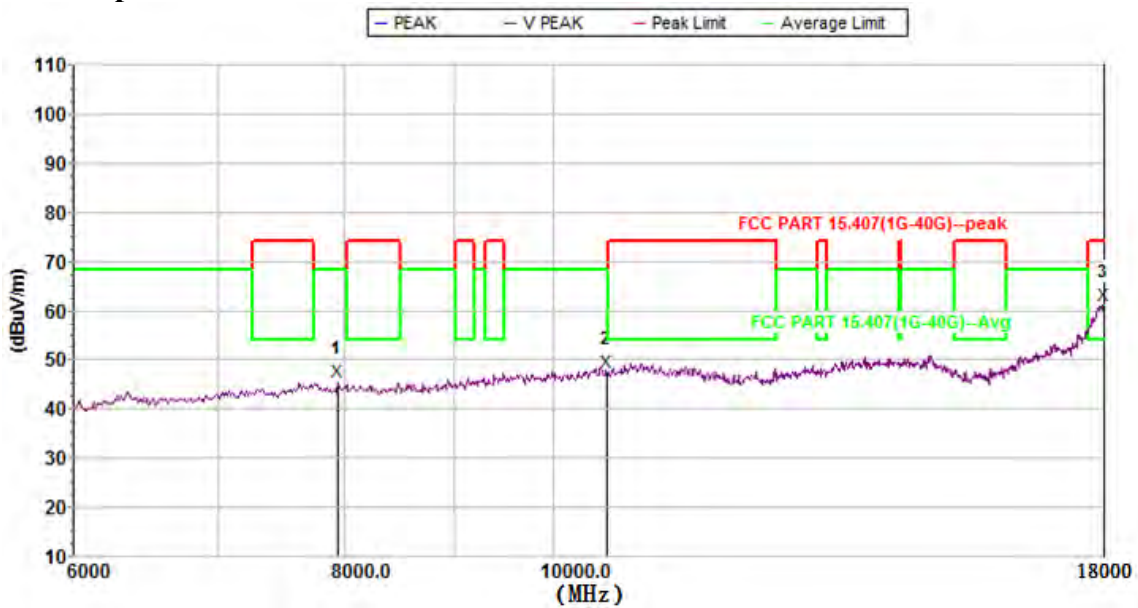
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Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11a Chain 0 Ch 60 5300MHz 6-18GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 60 5300MHz 6-18GHz Vertical



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FCC ID : A43-WISP5

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	10600.000	47.8	74.0	26.2	39.7	42.0	9.4	0.4	H
2	11064.000	49.8	74.0	24.2	40.3	42.1	10.1	0.8	H
3	14268.000	51.1	68.2	17.1	41.3	40.6	10.2	1.0	H
4	17964.000	62.7	74.0	11.3	48.6	41.3	12.7	5.8	H
Avg									
1	17964.000	51.33	54.0	2.7	48.6	41.3	12.7	5.8	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	7956.000	45.5	68.2	22.7	37.0	42.2	7.5	0.3	V
2	10600.000	47.7	74.0	26.3	39.7	42.0	9.4	0.4	V
3	17988.000	61.2	74.0	12.8	48.9	41.3	12.3	5.9	V
Avg									
1	17988.000	51.19	54.0	2.8	48.9	41.3	12.3	5.9	V

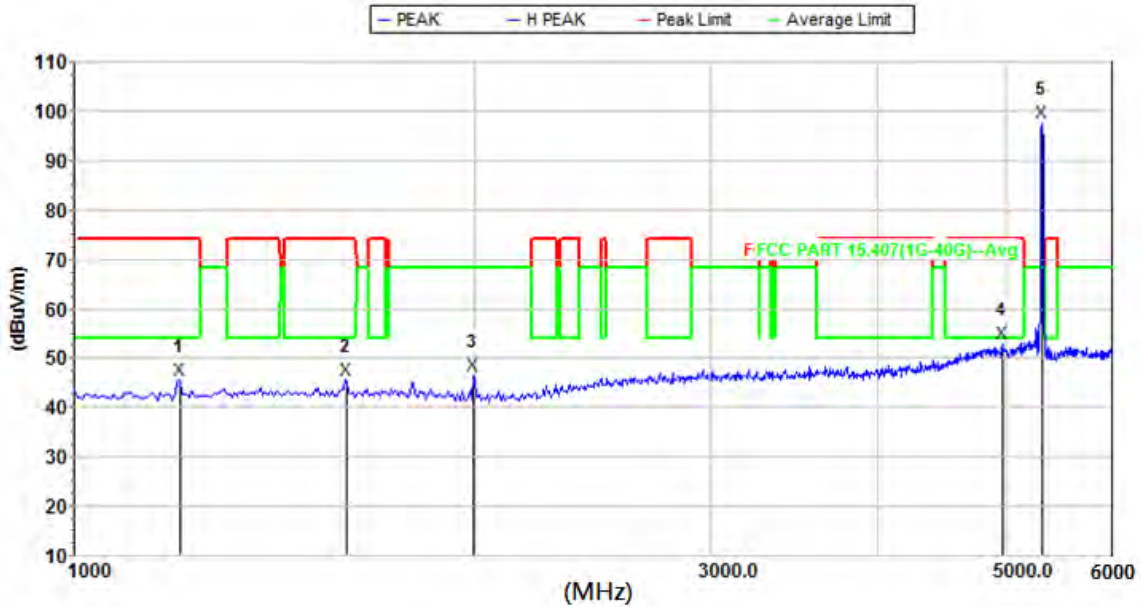
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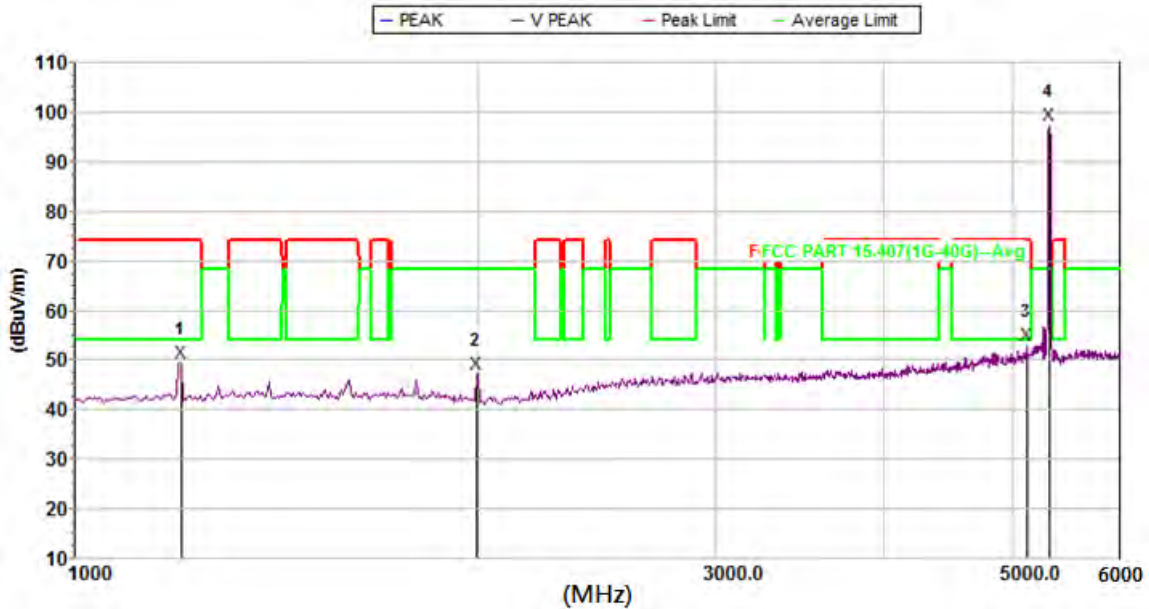
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
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Spurious Emission 802.11a Chain 0 Ch 64 5320MHz 1-6GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 64 5320MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	45.7	74.0	28.3	25.0	40.2	3.0	10.0	H
2	1600.000	45.7	74.0	28.3	25.7	40.3	3.5	10.0	H
3	1995.000	46.6	68.2	21.6	26.1	40.4	4.1	10.0	H
4	4965.000	53.1	74.0	20.9	31.5	41.9	6.4	10.0	H
5 F	5320	97.6	-	-	31.8	42.1	7.0	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	49.4	74.0	24.6	25.0	40.2	3.0	10.0	V
2	1990.000	47.3	68.2	20.9	26.1	40.4	4.1	10.0	V
3	5120.000	53.1	74.0	20.9	31.6	42.0	6.6	10.0	V
4 F	5320	97.3	-	-	31.8	42.1	7.0	10.0	V

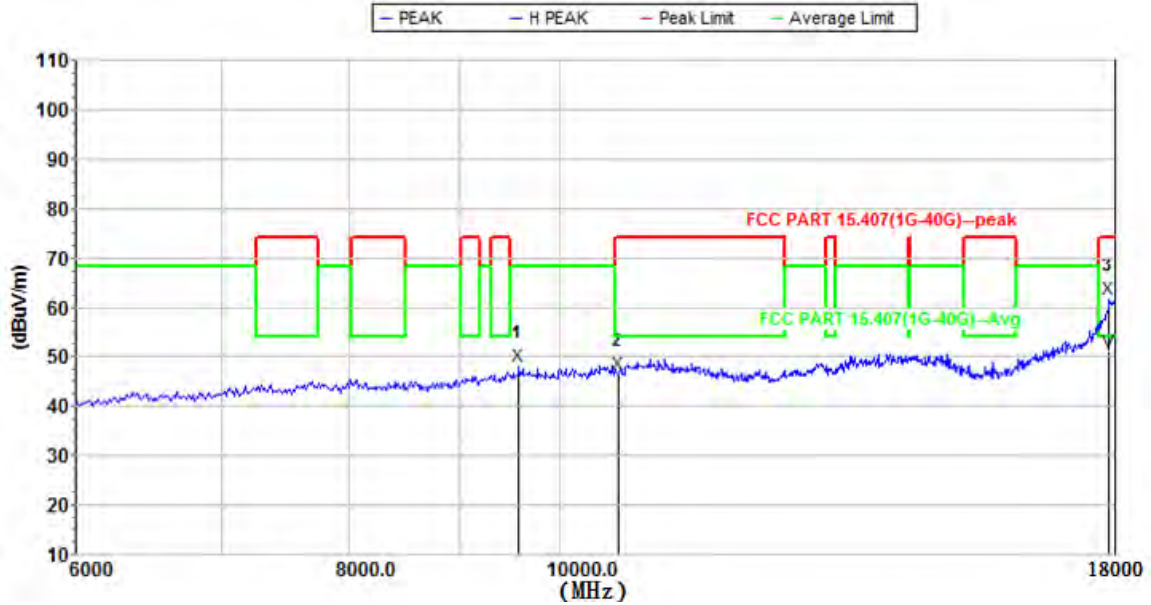
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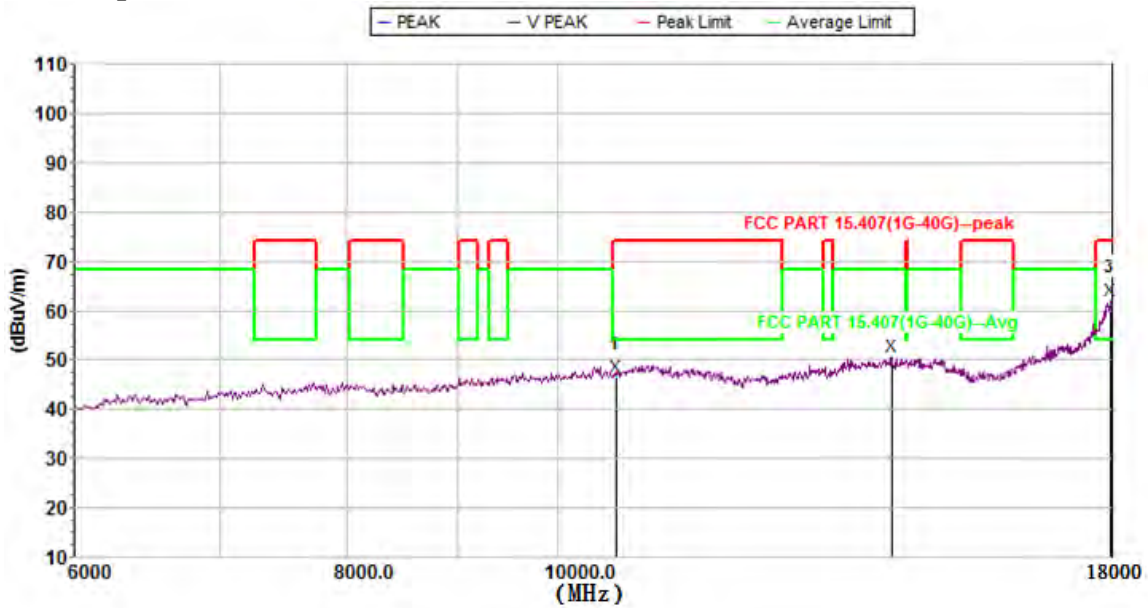
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
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Spurious Emission 802.11a Chain 0 Ch 64 5320MHz 6-18GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 64 5320MHz 6-18GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9588.000	48.2	68.2	20.0	38.5	41.8	8.2	0.5	H
2	10640.000	46.7	74.0	27.3	39.8	42.0	9.5	0.4	H
3	17892.000	61.7	74.0	12.3	47.6	41.2	13.6	5.7	H
Avg									
1	17892.000	51.24	54.0	2.8	47.6	41.2	13.6	5.7	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	10640.000	46.7	74.0	27.3	39.8	42.0	9.5	0.4	V
2	14256.000	50.7	68.2	17.5	41.3	40.6	10.2	1.0	V
3	17976.000	62.1	74.0	11.9	48.8	41.3	12.5	5.9	V
Avg									
1	17976.000	51.22	54.0	2.8	48.8	41.3	12.5	5.9	V

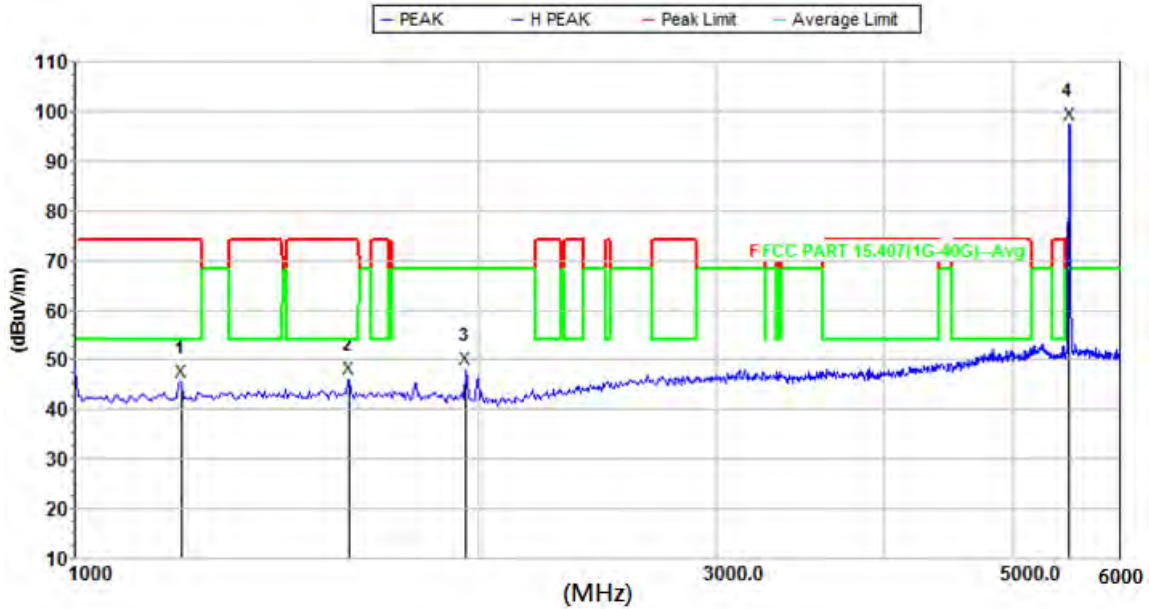
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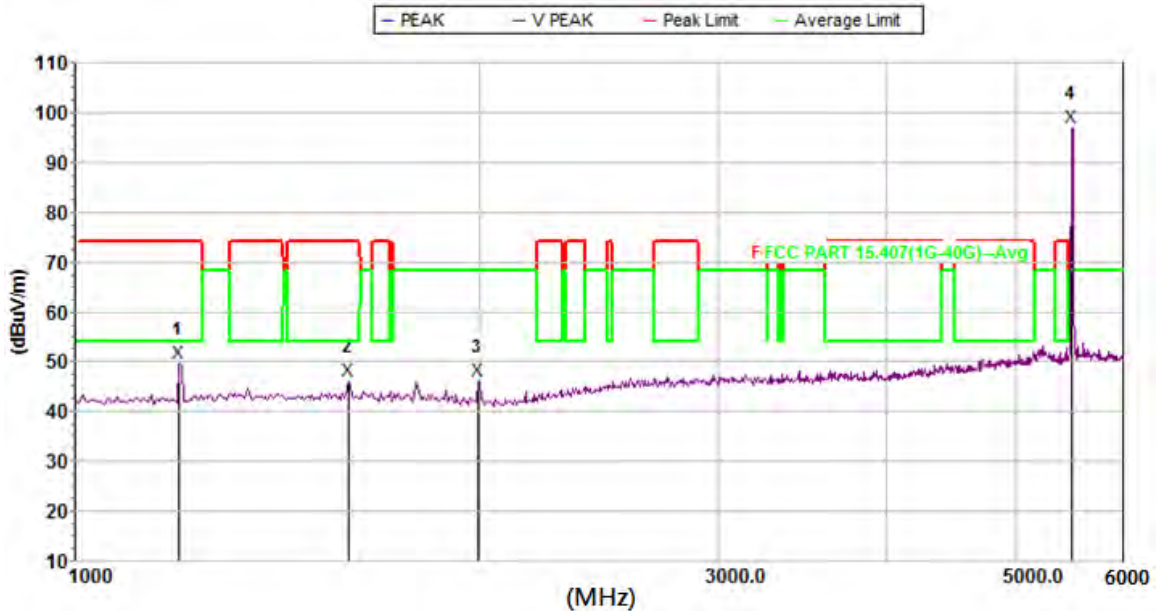
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
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Spurious Emission 802.11a Chain 0 Ch 100 5500MHz 1-6GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 100 5500MHz 1-6GHz Vertical



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Test report No. : 4788166493A-US-R4-V0

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Issued date : 2017/11/24

FCC ID : A43-WISP5

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	45.6	74.0	28.4	25.0	40.2	3.0	10.0	H
2	1600.000	46.3	74.0	27.7	25.7	40.3	3.5	10.0	H
3	1955.000	48.3	68.2	19.9	26.1	40.4	4.0	10.0	H
4 F	5500	97.4	-	-	32.0	42.1	7.3	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	49.8	74.0	24.2	25.0	40.2	3.0	10.0	V
2	1595.000	46.3	74.0	27.7	25.7	40.3	3.5	10.0	V
3	1990.000	46.4	68.2	21.8	26.1	40.4	4.1	10.0	V
4 F	5500	97.0	-	-	32.0	42.1	7.3	10.0	V

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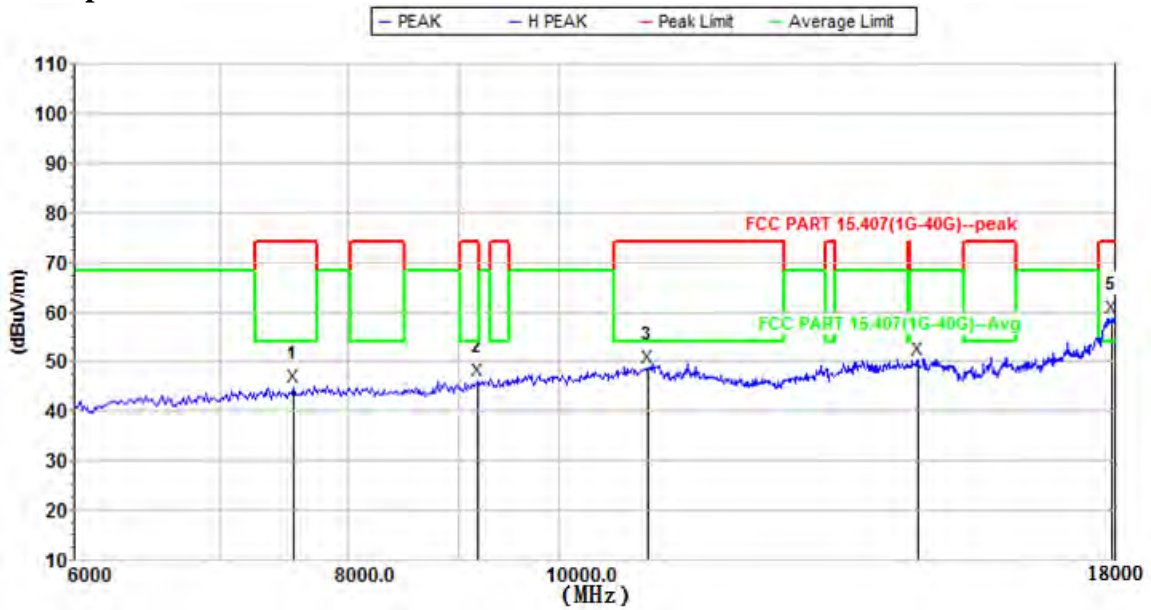
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,

Telephone :+886-2-7737-3000

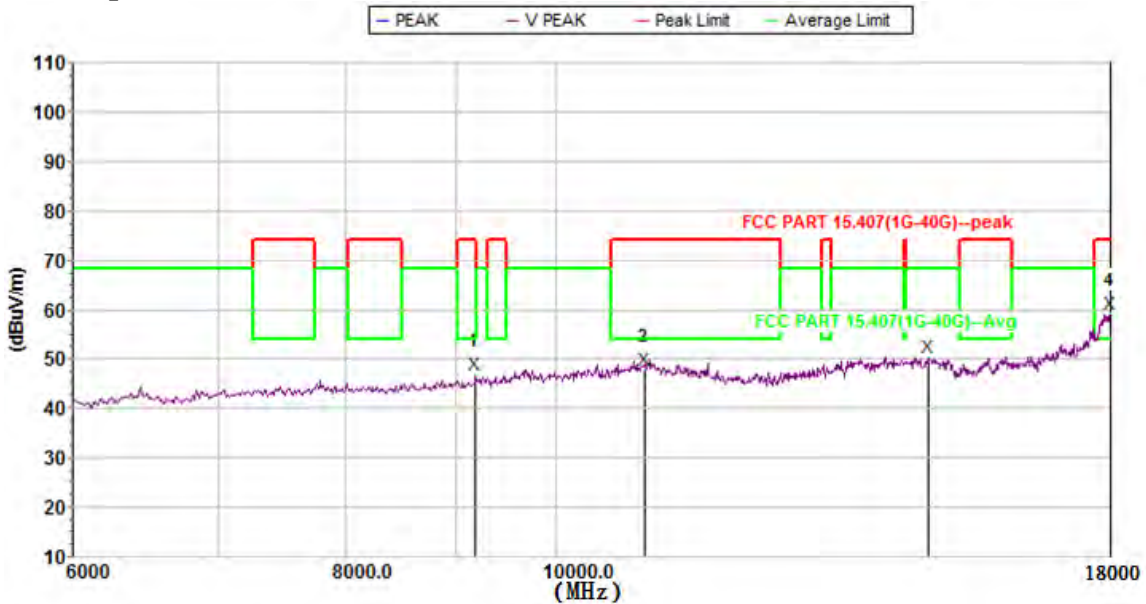
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11a Chain 0 Ch 100 5500MHz 6-18GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 100 5500MHz 6-18GHz Vertical



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Telephone : +886-2-7737-3000

Facsimile (FAX) : +886-2-7737-3610



Test report No. : 4788166493A-US-R4-V0
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Issued date : 2017/11/24
FCC ID : A43-WISP5

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	7560.000	45.1	74.0	28.9	36.6	42.2	7.4	0.1	H
2	9192.000	46.4	74.0	27.6	37.8	41.9	8.1	0.5	H
3	11000.000	48.7	74.0	25.3	40.3	42.1	10.0	1.0	H
4	14616.000	50.6	68.2	17.6	41.4	40.7	10.6	1.2	H
5	17940.000	58.9	74.0	15.1	48.3	41.2	13.1	4.6	H
Avg									
1	17940.000	50.07	54.0	3.9	48.3	41.2	13.1	4.6	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9192.000	46.9	74.0	27.1	37.8	41.9	8.1	0.5	V
2	11000.000	48.0	74.0	26.0	40.3	42.1	10.0	1.0	V
3	14844.000	50.5	68.2	17.7	41.0	40.8	10.7	1.6	V
4	17988.000	59.2	74.0	14.8	48.9	41.3	12.3	4.6	V
Avg									
1	17988.000	50.21	54.0	3.8	48.9	41.3	12.3	4.6	V

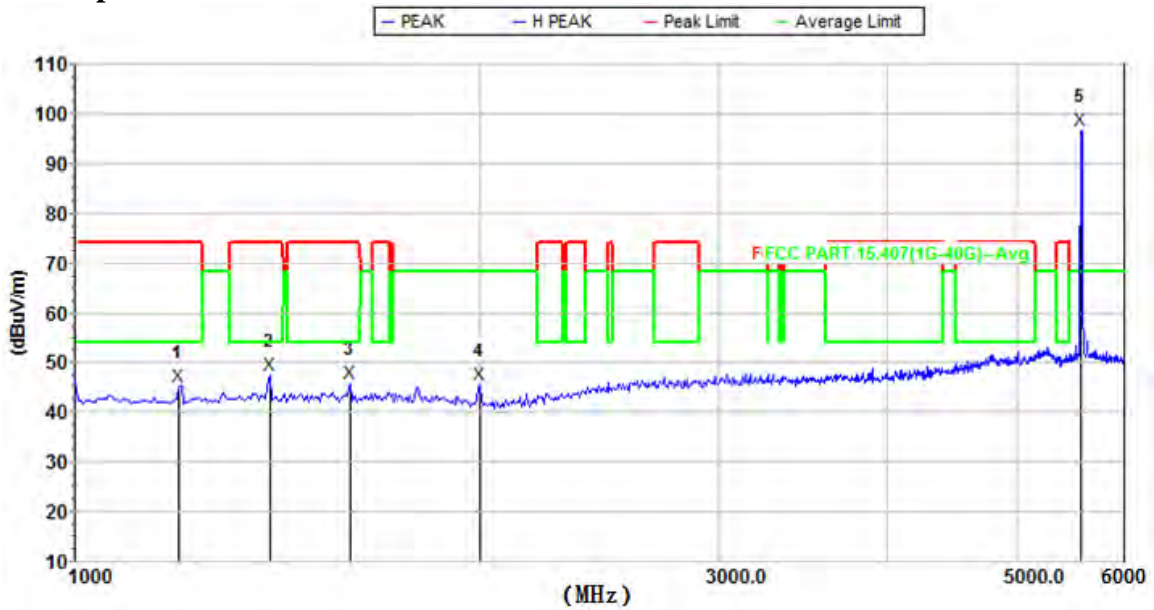
EMC Lab.

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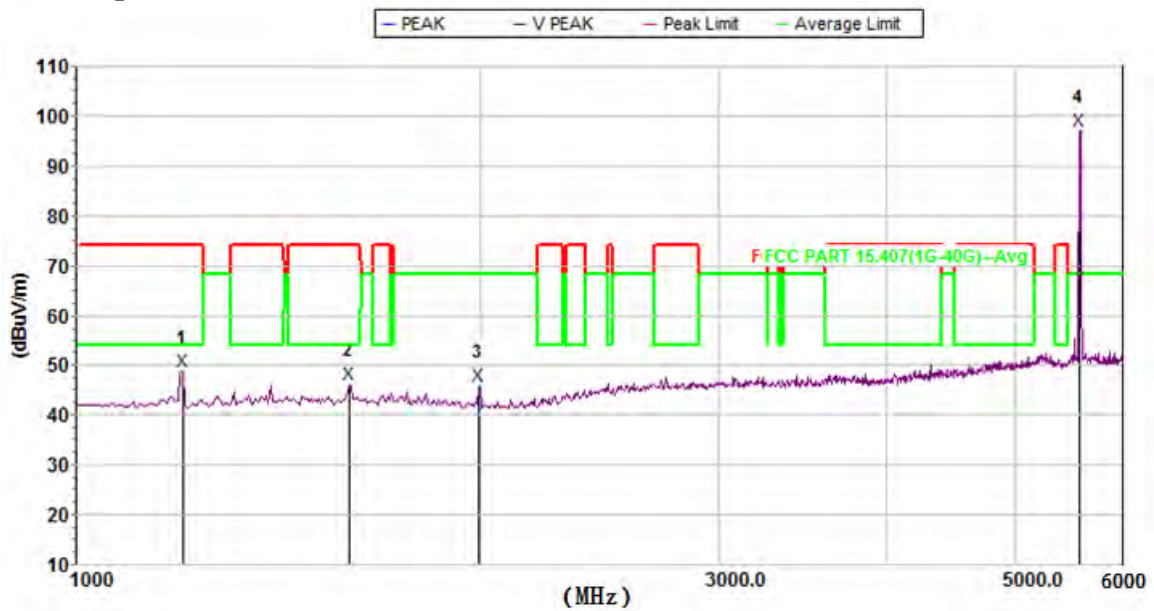
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11a Chain 0 Ch 116 5580MHz 1-6GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 116 5580MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	45.4	74.0	28.6	25.0	40.2	3.0	10.0	H
2	1395.000	47.7	74.0	26.3	25.4	40.2	3.2	10.0	H
3	1600.000	45.8	74.0	28.2	25.7	40.3	3.5	10.0	H
4	2000.000	45.6	68.2	22.6	26.1	40.4	4.1	10.0	H
5 F	5580	96.8	-	-	32.1	42.1	7.4	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	48.7	74.0	25.3	25.0	40.2	3.0	10.0	V
2	1595.000	46.3	74.0	27.7	25.7	40.3	3.5	10.0	V
3	1995.000	46.0	68.2	22.2	26.1	40.4	4.1	10.0	V
4 F	5580.000	97.1	-	-	32.1	42.1	7.4	10.0	V

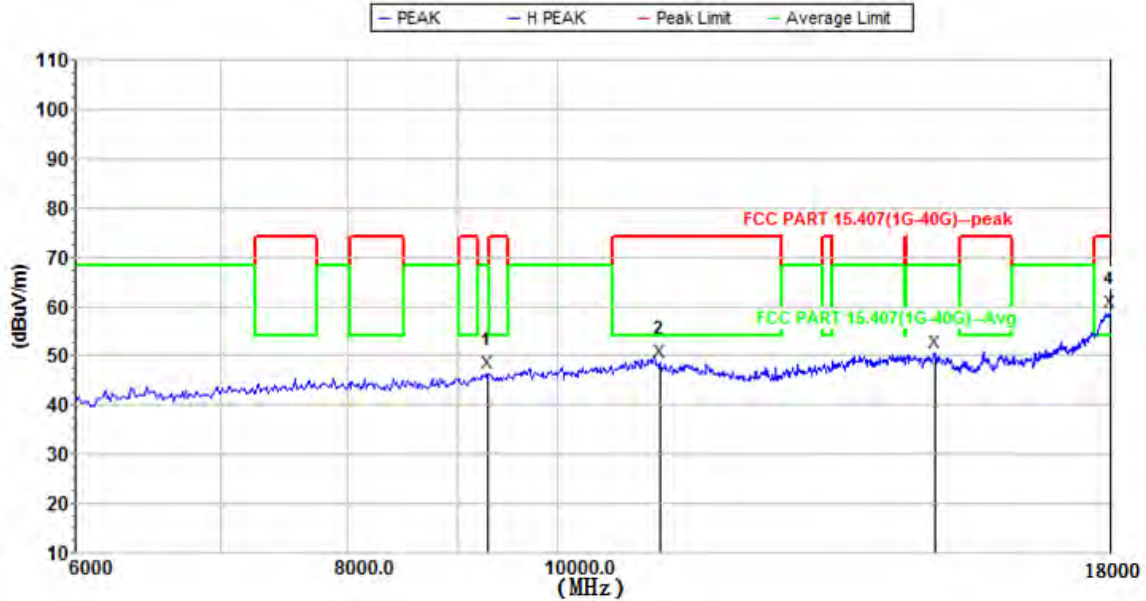
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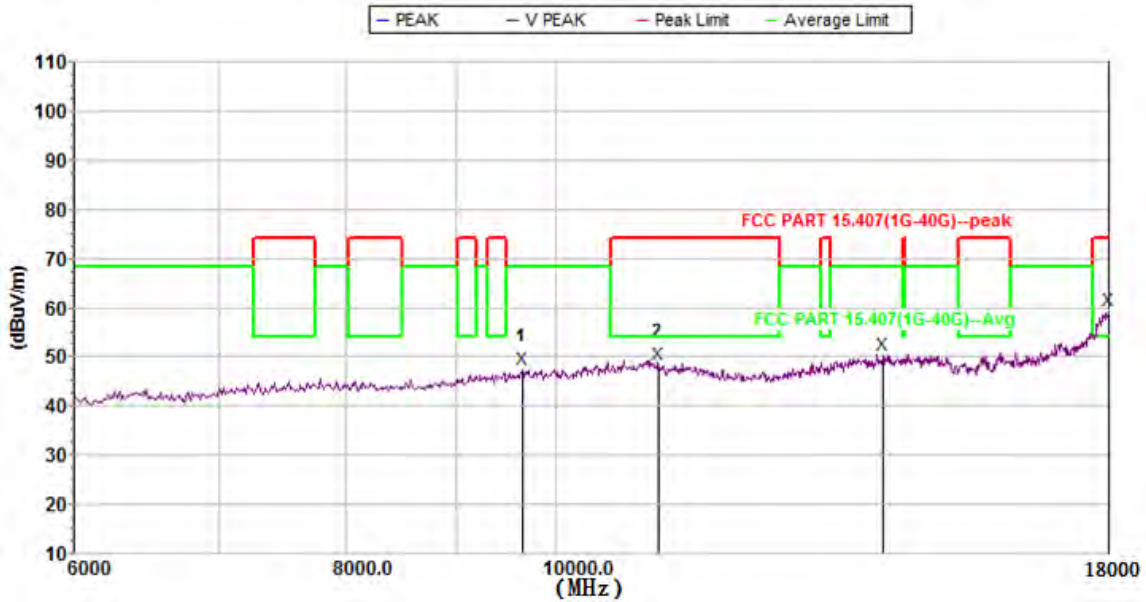
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11a Chain 0 Ch 116 5580MHz 6-18GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 116 5580MHz 6-18GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9300.000	46.5	74.0	27.5	38.0	41.9	7.9	0.5	H
2	11160.000	48.8	74.0	25.2	40.2	42.0	10.2	0.9	H
3	14940.000	50.9	68.2	17.3	40.9	40.8	10.8	1.8	H
4	17988.000	58.9	74.0	15.1	48.9	41.3	12.3	4.6	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9660.000	47.5	68.2	20.7	38.6	41.8	8.2	0.6	V
2	11160.000	48.6	74.0	25.4	40.2	42.0	10.2	0.9	V
3	14172.000	50.4	68.2	17.8	41.1	40.6	10.4	1.0	V
4	18000.000	59.4	74.0	14.6	49.1	41.3	12.1	4.7	V
Avg									
1	18000.000	50.08	54.0	3.9	49.1	41.3	12.1	4.7	V

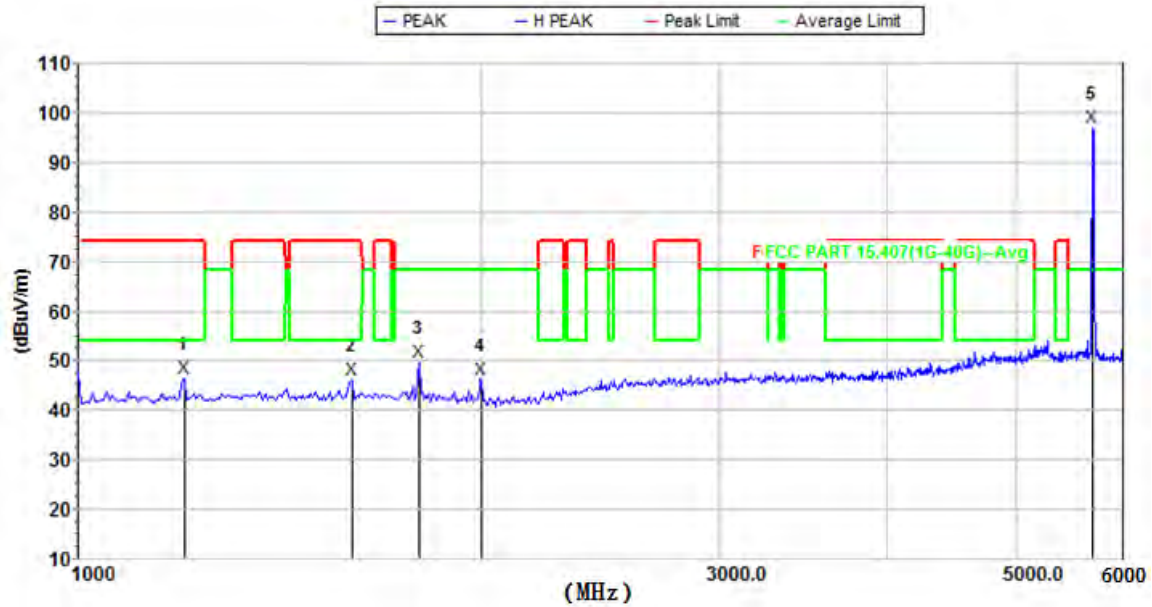
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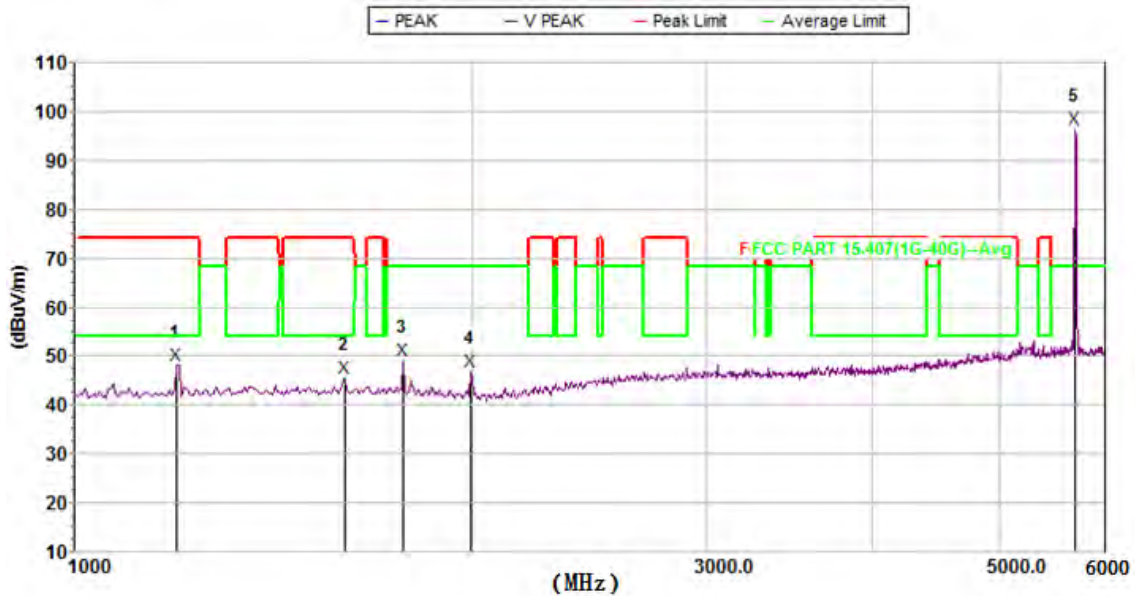
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11a Chain 0 Ch 140 5700MHz 1-6GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 140 5700MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	46.6	74.0	27.4	25.0	40.2	3.0	10.0	H
2	1600.000	46.1	74.0	27.9	25.7	40.3	3.5	10.0	H
3	1795.000	49.7	68.2	18.5	25.9	40.4	3.7	10.0	H
4	2000.000	46.3	68.2	21.9	26.1	40.4	4.1	10.0	H
5 F	5700	97.0	-	-	32.3	42.2	7.7	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	48.2	74.0	25.8	25.0	40.2	3.0	10.0	V
2	1600.000	45.7	74.0	28.3	25.7	40.3	3.5	10.0	V
3	1770.000	49.2	68.2	19.0	25.9	40.3	3.7	10.0	V
4	1990.000	47.0	68.2	21.2	26.1	40.4	4.1	10.0	V
5 F	5700	96.4	-	-	32.3	42.2	7.7	10.0	V

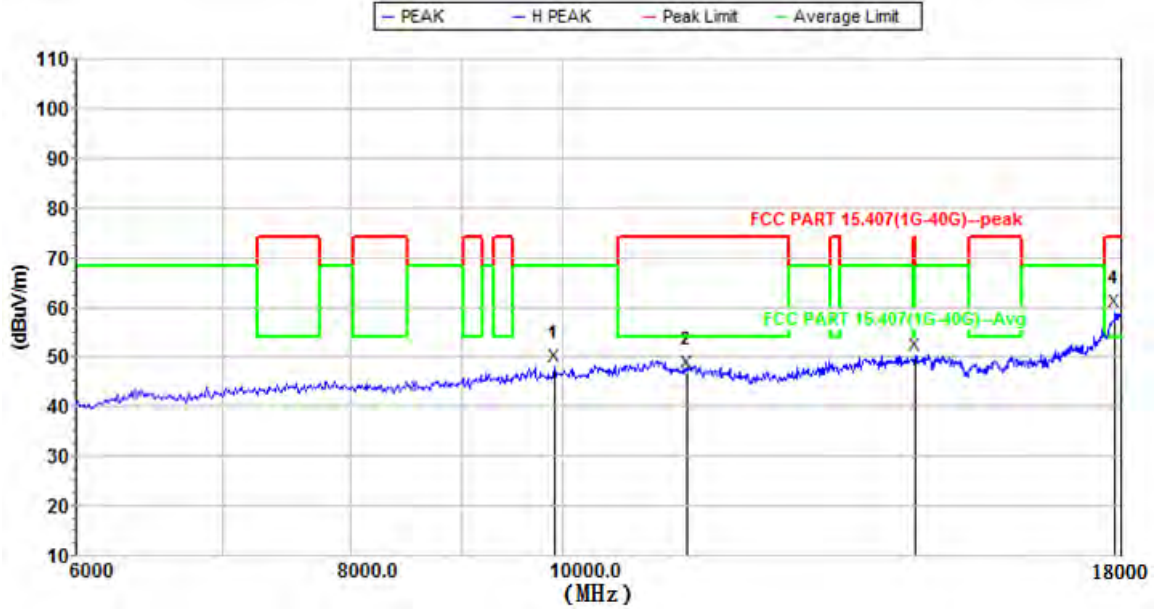
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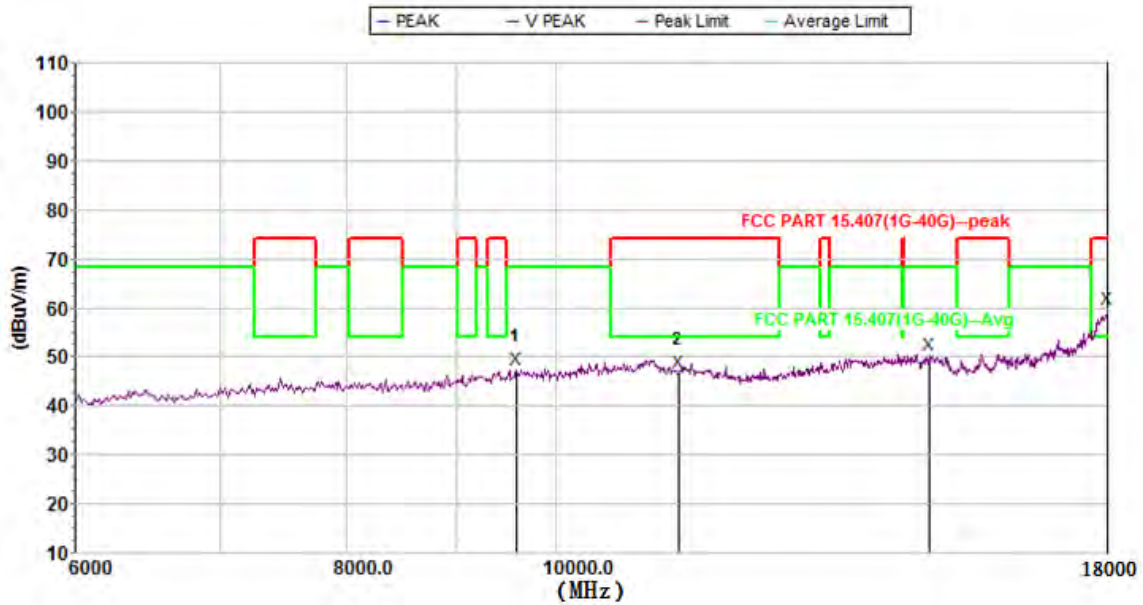
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
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Spurious Emission 802.11a Chain 0 Ch 140 5700MHz 6-18GHz Horizontal



Spurious Emission 802.11a Chain 0 Ch 140 5700MHz 6-18GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9924.000	48.3	68.2	19.9	38.7	41.8	8.5	0.6	H
2	11400.000	46.8	74.0	27.2	40.1	42.0	10.3	0.8	H
3	14496.000	50.4	74.0	23.6	41.6	40.7	10.4	1.0	H
4	17892.000	59.3	74.0	14.7	47.6	41.2	13.6	4.6	H
Avg									
1	17892.000	50.11	54.0	3.9	47.6	41.2	13.6	4.6	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9600.000	47.6	68.2	20.6	38.5	41.8	8.2	0.6	V
2	11400.000	47.0	74.0	27.0	40.1	42.0	10.3	0.8	V
3	14880.000	50.5	68.2	17.7	41.0	40.8	10.8	1.7	V
4	18000.000	60.0	74.0	14.0	49.1	41.3	12.1	4.7	V
Avg									
1	18000.000	50.16	54.0	3.8	49.1	41.3	12.1	4.7	V

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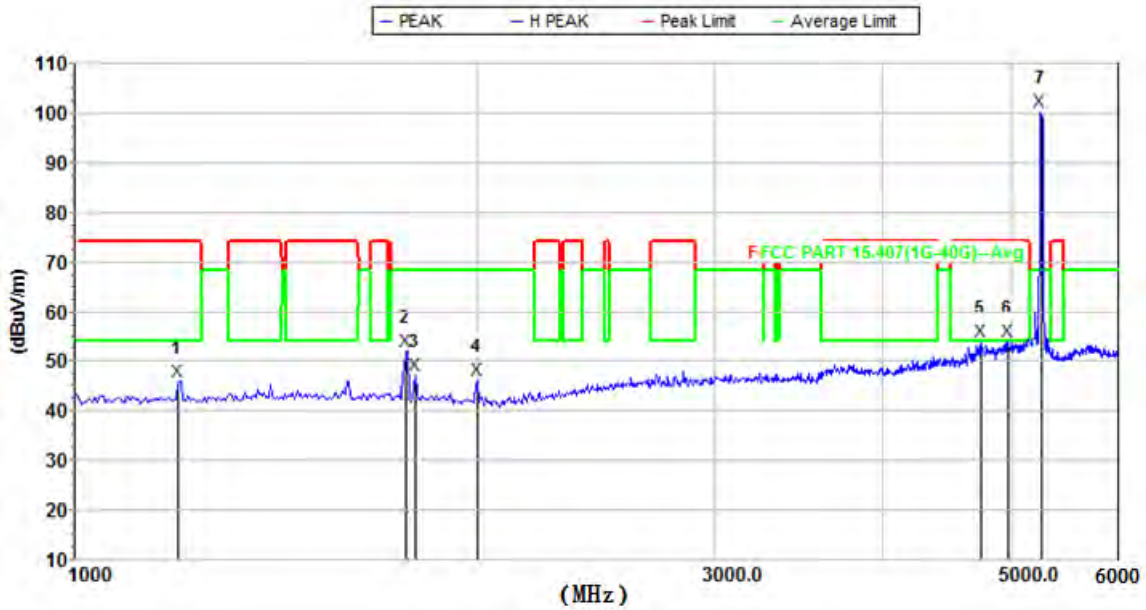
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,

Telephone :+886-2-7737-3000

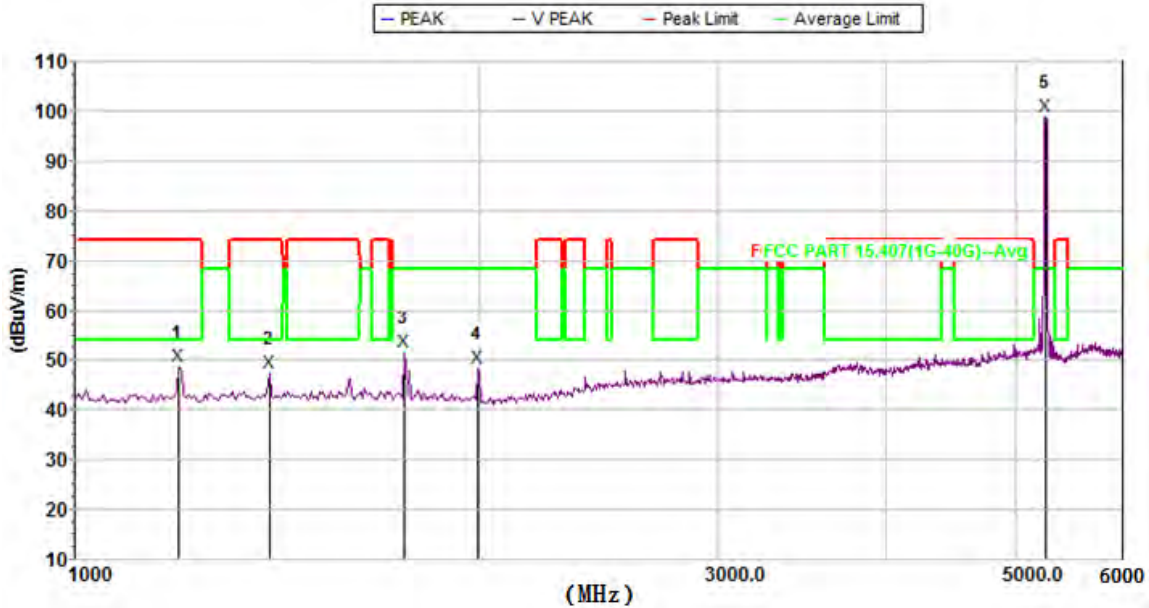
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11n HT20 Ch 52 5260MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT20 Ch 52 5260MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	46.0	74.0	28.0	25.0	40.2	3.0	10.0	H
2	1765.000	52.1	68.2	16.1	25.9	40.4	3.7	10.0	H
3	1795.000	47.3	68.2	20.9	25.9	40.4	3.8	10.0	H
4	2000.000	46.4	68.2	21.8	26.1	40.4	4.1	10.0	H
5	4745.000	53.9	74.0	20.1	31.1	41.8	6.2	10.0	H
6	4970.000	53.9	74.0	20.1	31.5	41.9	6.4	10.0	H
7 F	5260	100.3	-	-	31.8	42.0	6.9	10.0	H
Avg									
1	4745.000	46.19	54.0	7.8	31.1	41.8	6.2	10.0	H
2	4970.000	46.3	54.0	7.7	31.5	41.9	6.4	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	48.9	74.0	25.1	25.0	40.2	3.0	10.0	V
2	1395.000	47.4	74.0	26.6	25.4	40.2	3.2	10.0	V
3	1755.000	51.7	68.2	16.5	25.9	40.3	3.7	10.0	V
4	1995.000	48.6	68.2	19.6	26.1	40.4	4.1	10.0	V
5 F	5260	98.9	-	-	31.8	42.0	6.9	10.0	V

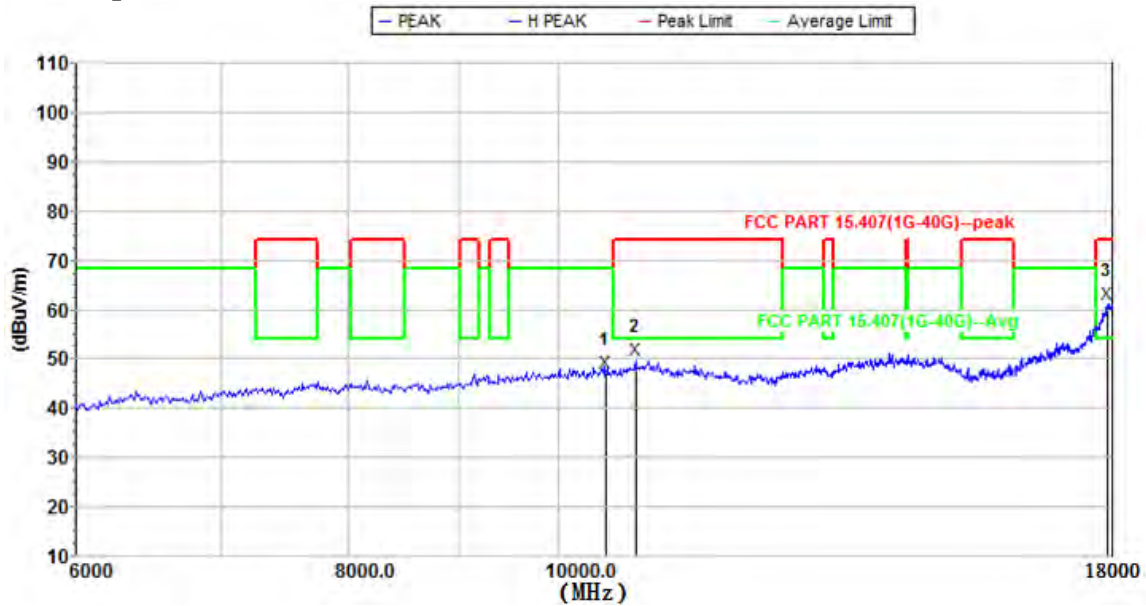
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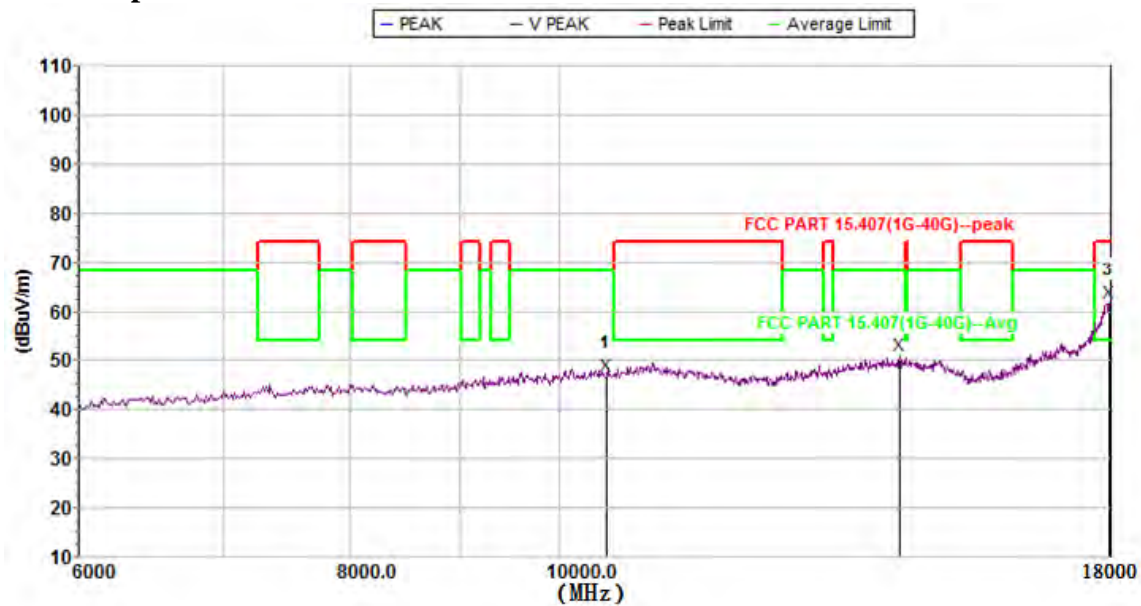
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11n HT20 Ch 52 5260MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT20 Ch 52 5260MHz 6-18GHz Vertical



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Test report No. : 4788166493A-US-R4-V0
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	10520.000	47.2	68.2	21.0	39.6	42.0	9.2	0.3	H
2	10860.000	49.9	74.0	24.1	40.1	42.0	9.7	0.7	H
3	17916.000	61.2	74.0	12.8	47.9	41.2	13.5	5.7	H
Avg									
1	17916.000	51.21	54.0	2.8	47.9	41.2	13.5	5.7	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	10520.000	46.8	68.2	21.4	39.6	42.0	9.2	0.3	V
2	14388.000	51.0	68.2	17.2	41.4	40.6	10.4	1.0	V
3	17976.000	61.9	74.0	12.1	48.8	41.3	12.5	5.9	V
Avg									
1	17976.000	51.28	54.0	2.7	48.8	41.3	12.5	5.9	V

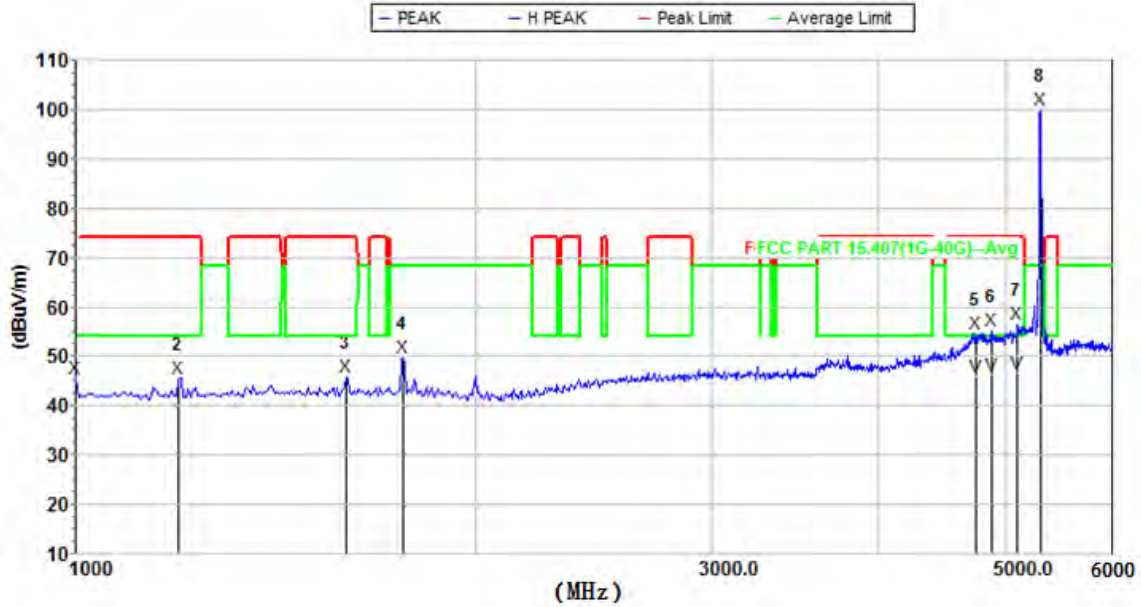
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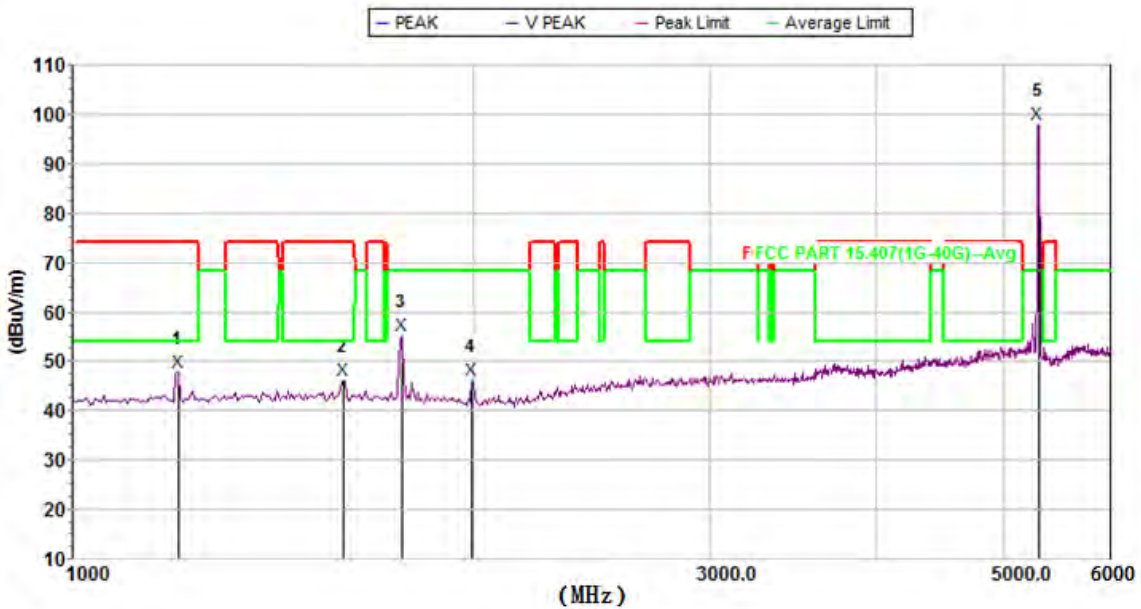
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11n HT20 Ch 60 5300MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT20 Ch 60 5300MHz 1-6GHz Vertical



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FCC ID : A43-WISP5

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1000.000	45.7	74.0	28.3	24.6	40.1	2.6	10.0	H
2	1195.000	45.7	74.0	28.3	25.0	40.2	3.0	10.0	H
3	1595.000	46.0	74.0	28.0	25.7	40.3	3.5	10.0	H
4	1760.000	49.8	68.2	18.4	25.9	40.3	3.7	10.0	H
5	4740.000	54.6	74.0	19.4	31.1	41.8	6.2	10.0	H
6	4880.000	55.3	74.0	18.7	31.3	41.9	6.5	10.0	H
7	5095.000	56.6	74.0	17.4	31.6	42.0	6.6	10.0	H
8 F	5300.000	100.0	-	-	31.8	42.0	7.0	10.0	H
Avg									
1	4740.000	46.08	54.0	7.9	31.1	41.8	6.2	10.0	H
2	4880.000	46.33	54.0	7.7	31.3	41.9	6.5	10.0	H
3	5095.000	46.5	54.0	7.5	31.6	42.0	6.6	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	48.0	74.0	26.0	25.0	40.2	3.0	10.0	V
2	1595.000	46.3	74.0	27.7	25.7	40.3	3.5	10.0	V
3	1765.000	55.4	68.2	12.8	25.9	40.3	3.7	10.0	V
4	1990.000	46.4	68.2	21.8	26.1	40.4	4.1	10.0	V
5 F	5300	97.9	-	-	31.8	42.0	7.0	10.0	V

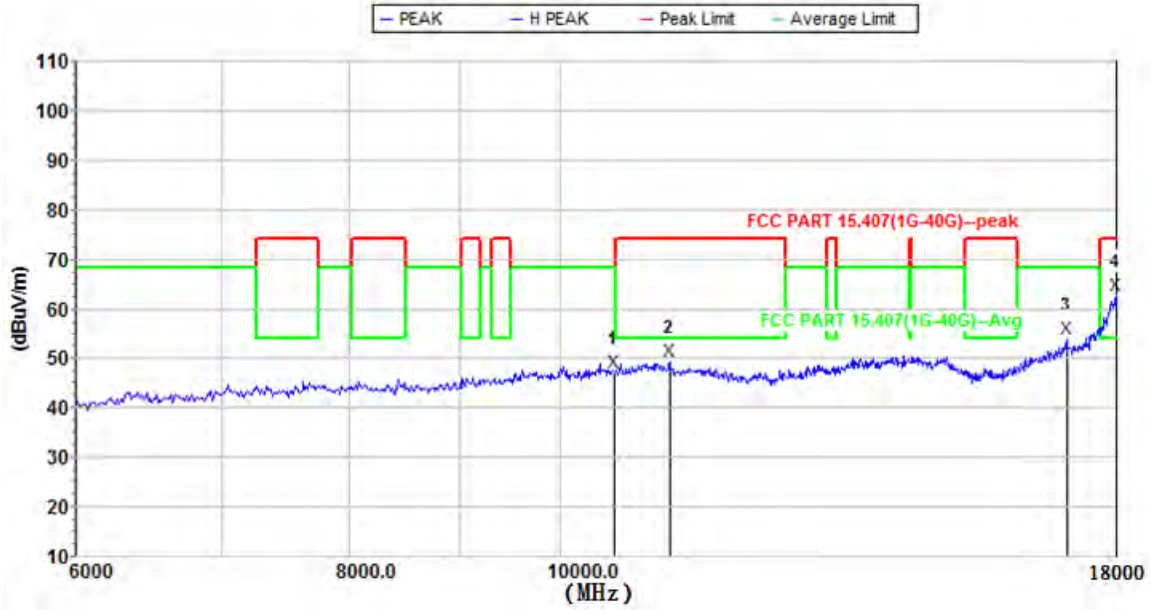
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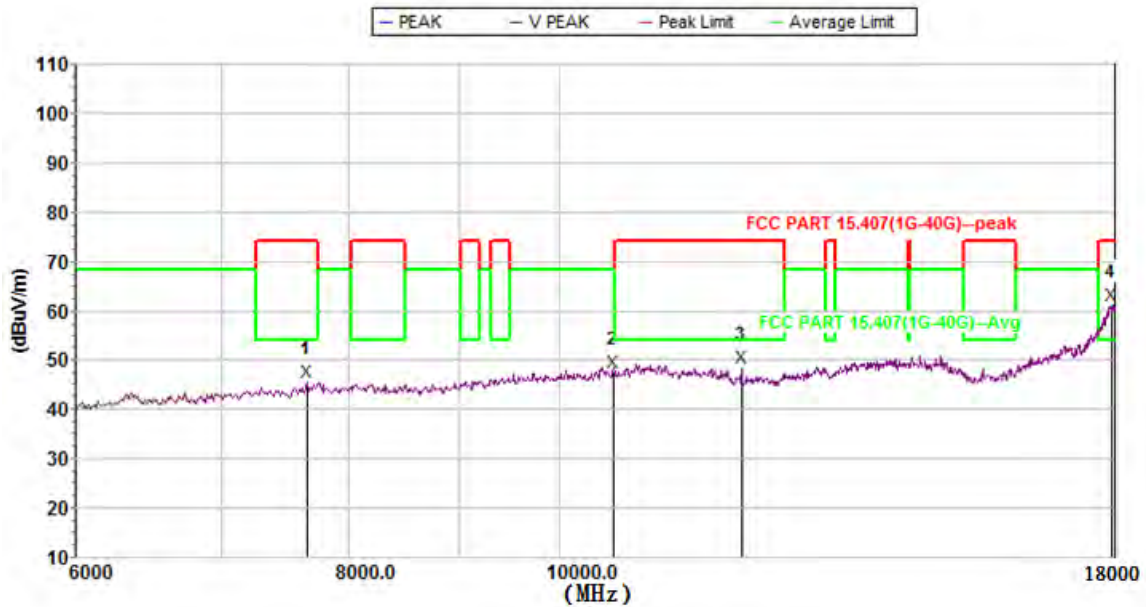
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
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Spurious Emission 802.11n HT20 Ch 60 5300MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT20 Ch 60 5300MHz 6-18GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	10600.000	47.1	74.0	26.9	39.7	42.0	9.4	0.4	H
2	11232.000	49.5	74.0	24.5	40.2	42.0	10.3	0.8	H
3	17088.000	53.9	68.2	14.3	40.6	40.9	12.5	4.6	H
4	17988.000	62.8	74.0	11.2	48.9	41.3	12.3	5.9	H
Avg									
1	17988.000	51.93	54.0	2.1	48.9	41.3	12.3	5.9	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	7668.000	45.5	74.0	28.5	36.7	42.2	7.4	0.1	V
2	10600.000	47.4	74.0	26.6	39.7	42.0	9.4	0.4	V
3	12132.000	48.4	74.0	25.6	38.9	41.6	10.4	0.9	V
4	17928.000	61.1	74.0	12.9	48.1	41.2	13.3	5.8	V
Avg									
1	17928.000	51.2	54.0	2.8	48.1	41.2	13.3	5.8	V

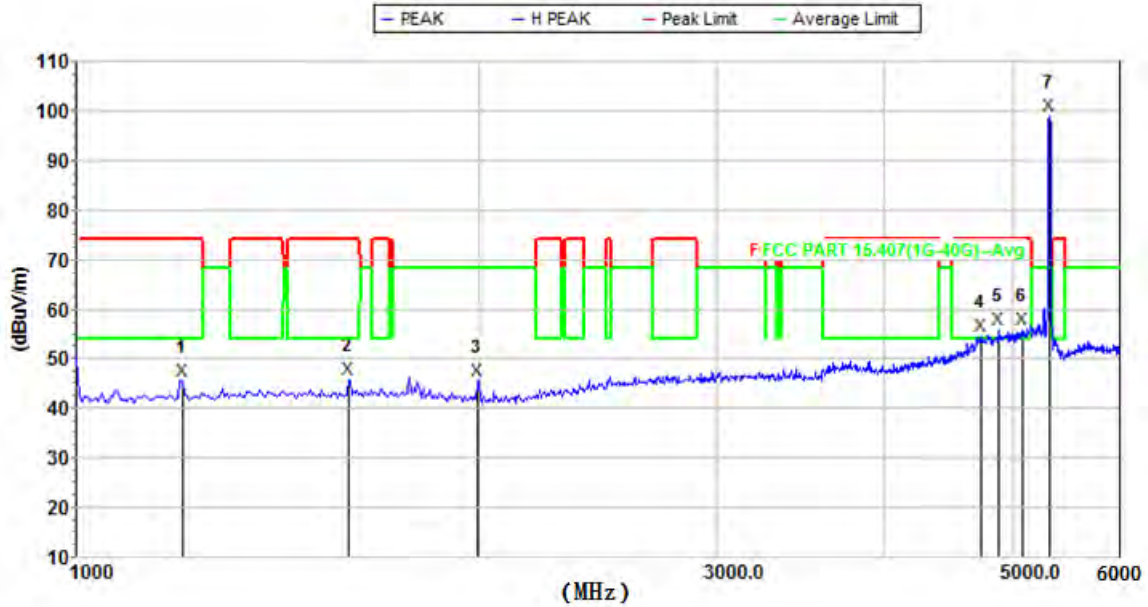
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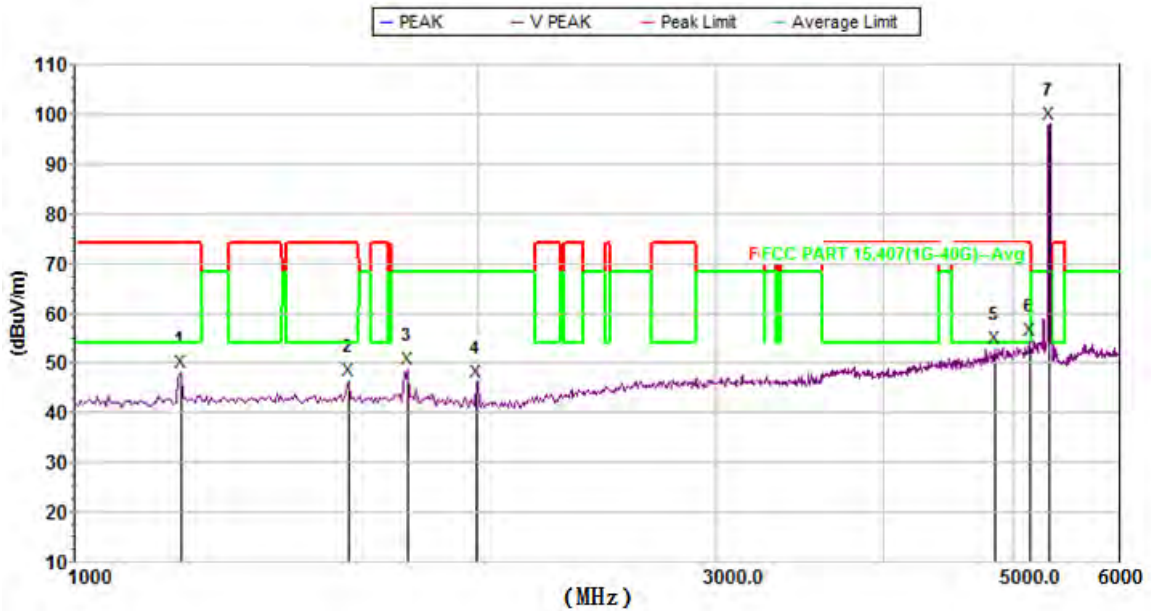
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Spurious Emission 802.11n HT20 Ch 64 5320MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT20 Ch 64 5320MHz 1-6GHz Vertical



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Test report No. : 4788166493A-US-R4-V0
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	45.7	74.0	28.3	25.0	40.2	3.0	10.0	H
2	1595.000	45.8	74.0	28.2	25.7	40.3	3.5	10.0	H
3	1995.000	45.7	68.2	22.5	26.1	40.4	4.1	10.0	H
4	4725.000	54.7	74.0	19.3	31.1	41.8	6.2	10.0	H
5	4875.000	55.8	74.0	18.2	31.3	41.9	6.5	10.0	H
6	5080.000	55.9	74.0	18.1	31.6	42.0	6.6	10.0	H
7 F	5320.000	99.0	-	-	31.8	42.1	7.0	10.0	H
Avg									
1	4725.000	46.08	54.0	7.9	31.1	41.8	6.2	10.0	H
2	4875.000	46.35	54.0	7.6	31.3	41.9	6.5	10.0	H
3	5080.000	46.77	54.0	7.2	31.6	42.0	6.6	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	48.1	74.0	25.9	25.0	40.2	3.0	10.0	V
2	1600.000	46.7	74.0	27.3	25.7	40.3	3.5	10.0	V
3	1770.000	48.9	68.2	19.3	25.9	40.3	3.7	10.0	V
4	1995.000	46.4	68.2	21.8	26.1	40.4	4.1	10.0	V
5	4845.000	53.2	74.0	20.8	31.3	41.9	6.4	10.0	V
6	5145.000	54.5	74.0	19.5	31.6	42.0	6.7	10.0	V
7 F	5320	97.9	-	-	31.8	42.1	7.0	10.0	V
Avg									
1	5145.000	46.69	54.0	7.3	31.6	42.0	6.7	10.0	V

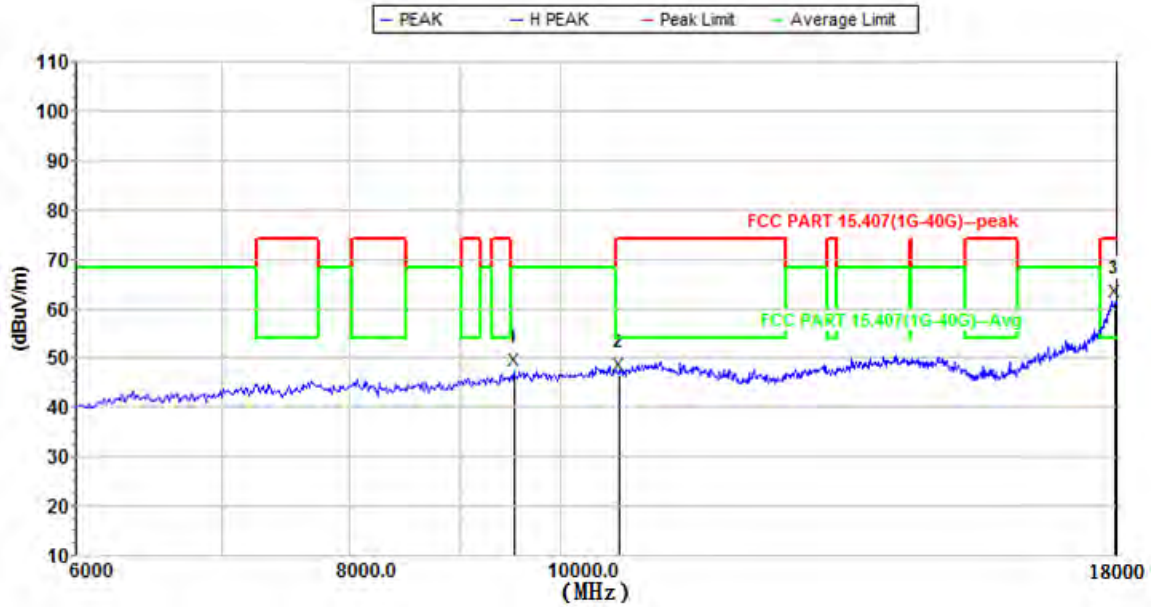
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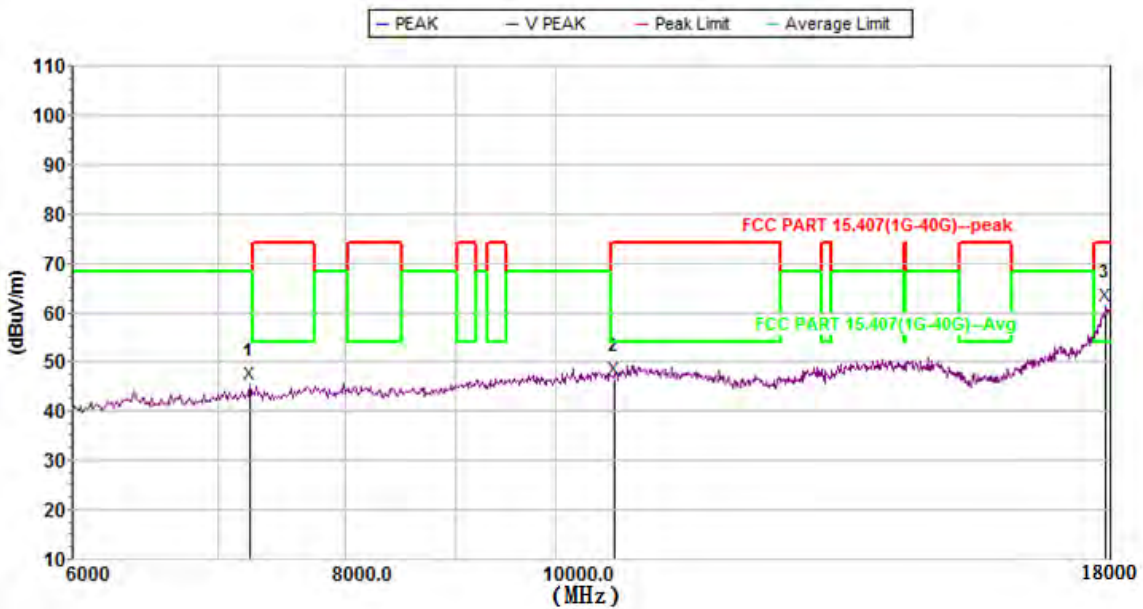
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Spurious Emission 802.11n HT20 Ch 64 5320MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT20 Ch 64 5320MHz 6-18GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9528.000	47.4	68.2	20.8	38.5	41.8	8.2	0.5	H
2	10640.000	46.7	74.0	27.3	39.8	42.0	9.5	0.4	H
3	17964.000	61.5	74.0	12.5	48.6	41.3	12.7	5.8	H
Avg									
1	17964.000	51.19	54.0	2.8	48.6	41.3	12.7	5.8	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	7236.000	45.6	68.2	22.6	36.0	42.2	7.1	0.2	V
2	10640.000	46.7	74.0	27.3	39.8	42.0	9.5	0.4	V
3	17916.000	61.5	74.0	12.5	47.9	41.2	13.5	5.7	V
Avg									
1	17916.000	51.23	54.0	2.8	47.9	41.2	13.5	5.7	V

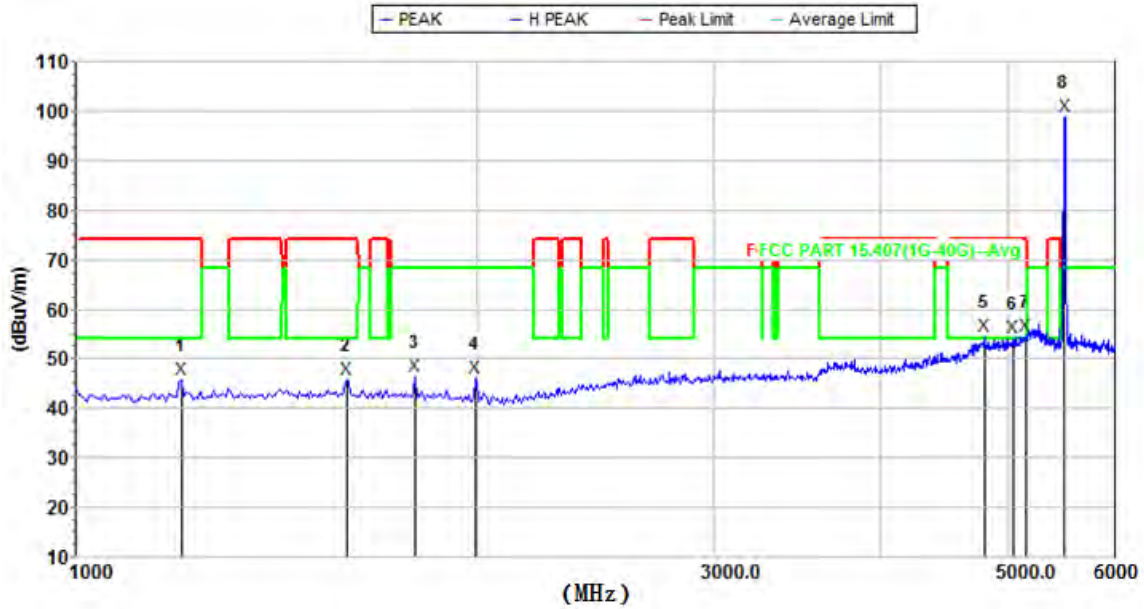
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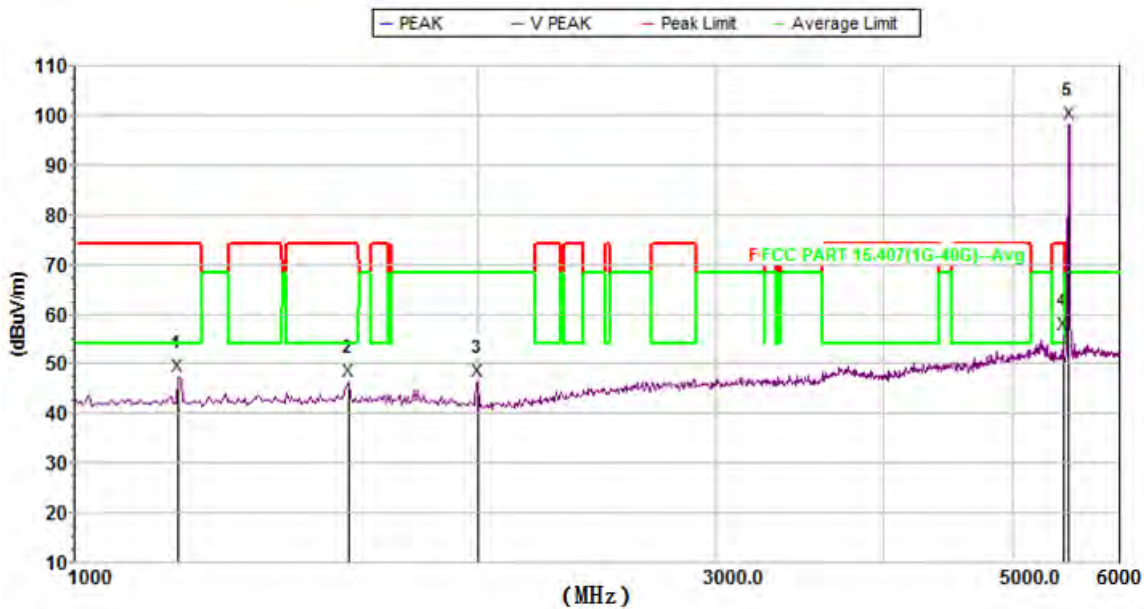
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Spurious Emission 802.11n HT20 Ch 100 5500MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT20 Ch 100 5500MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	46.0	74.0	28.0	25.0	40.2	3.0	10.0	H
2	1595.000	45.8	74.0	28.2	25.7	40.3	3.5	10.0	H
3	1795.000	46.7	68.2	21.5	25.9	40.4	3.7	10.0	H
4	1990.000	46.4	68.2	21.8	26.1	40.4	4.1	10.0	H
5	4790.000	54.5	74.0	19.5	31.2	41.8	6.4	10.0	H
6	5030.000	54.3	74.0	19.7	31.5	42.0	6.4	10.0	H
7	5145.000	54.7	74.0	19.3	31.6	42.0	6.7	10.0	H
8 F	5500	98.9	-	-	32.0	42.1	7.3	10.0	H
Avg									
1	4790.000	46.09	54.0	7.9	31.2	41.8	6.4	10.0	H
2	5030.000	46.27	54.0	7.7	31.5	42.0	6.4	10.0	H
3	5145.000	46.52	54.0	7.5	31.6	42.0	6.7	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	47.5	74.0	26.5	25.0	40.2	3.0	10.0	V
2	1600.000	46.5	74.0	27.5	25.7	40.3	3.5	10.0	V
3	2000.000	46.7	68.2	21.5	26.1	40.4	4.1	10.0	V
4	5450.000	55.8	74.0	18.2	31.9	42.1	7.2	10.0	V
5 F	5500	98.2	-	-	32.0	42.1	7.3	10.0	V
Avg									
1	5450.000	47.29	54.0	6.7	31.9	42.1	7.2	10.0	V

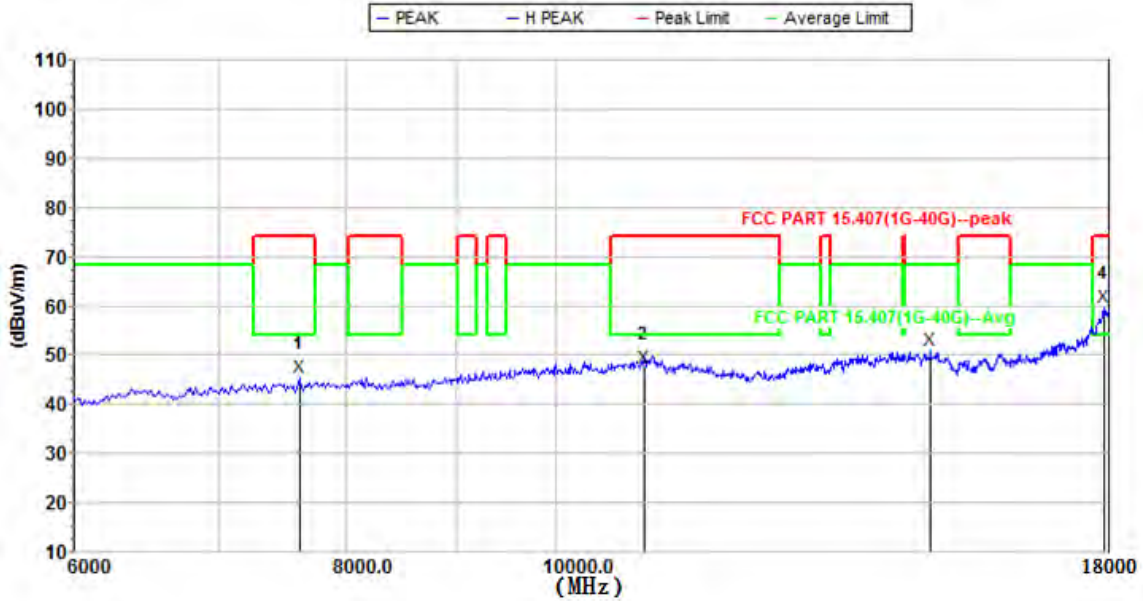
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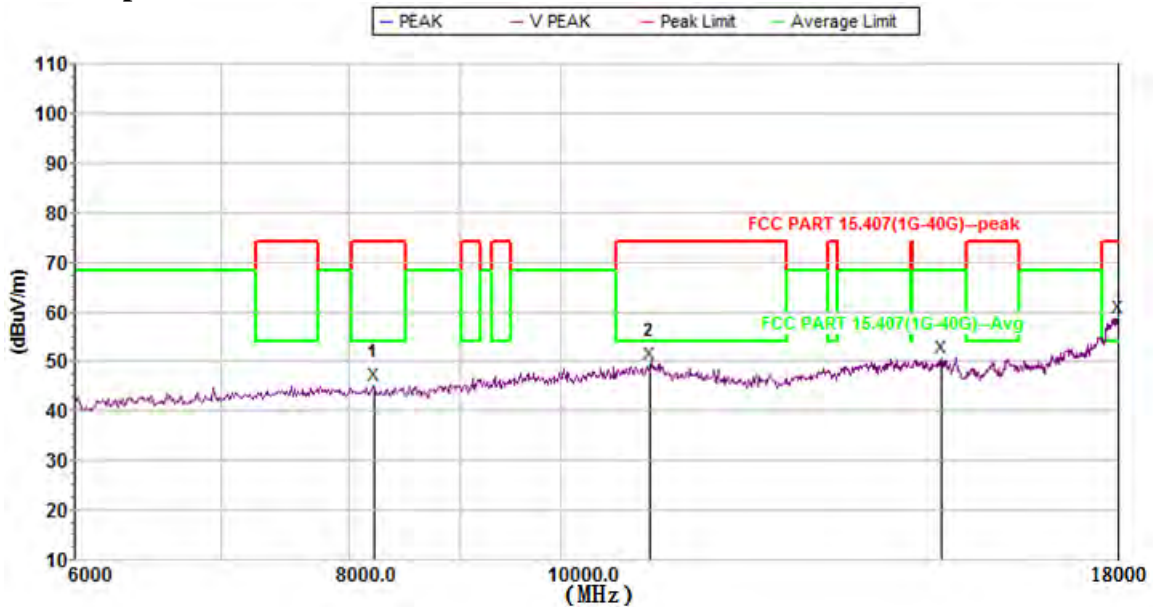
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Spurious Emission 802.11n HT20 Ch 100 5500MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT20 Ch 100 5500MHz 6-18GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	7620.000	45.5	74.0	28.5	36.6	42.2	7.4	0.1	H
2	11000.000	47.5	74.0	26.5	40.3	42.1	10.0	1.0	H
3	14892.000	51.0	68.2	17.2	41.0	40.8	10.8	1.7	H
4	17904.000	59.8	74.0	14.2	47.8	41.2	13.7	4.6	H
Avg									
1	17904.000	50.29	54.0	3.7	47.8	41.2	13.7	4.6	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	8220.000	45.2	74.0	28.8	37.0	42.2	7.5	0.1	V
2	11000.000	49.6	74.0	24.4	40.3	42.1	10.0	1.0	V
3	14940.000	50.9	68.2	17.3	40.9	40.8	10.8	1.8	V
4	18000.000	59.0	74.0	15.0	49.1	41.3	12.1	4.7	V
Avg									
1	18000.000	50.31	54.0	3.7	49.1	41.3	12.1	4.7	V

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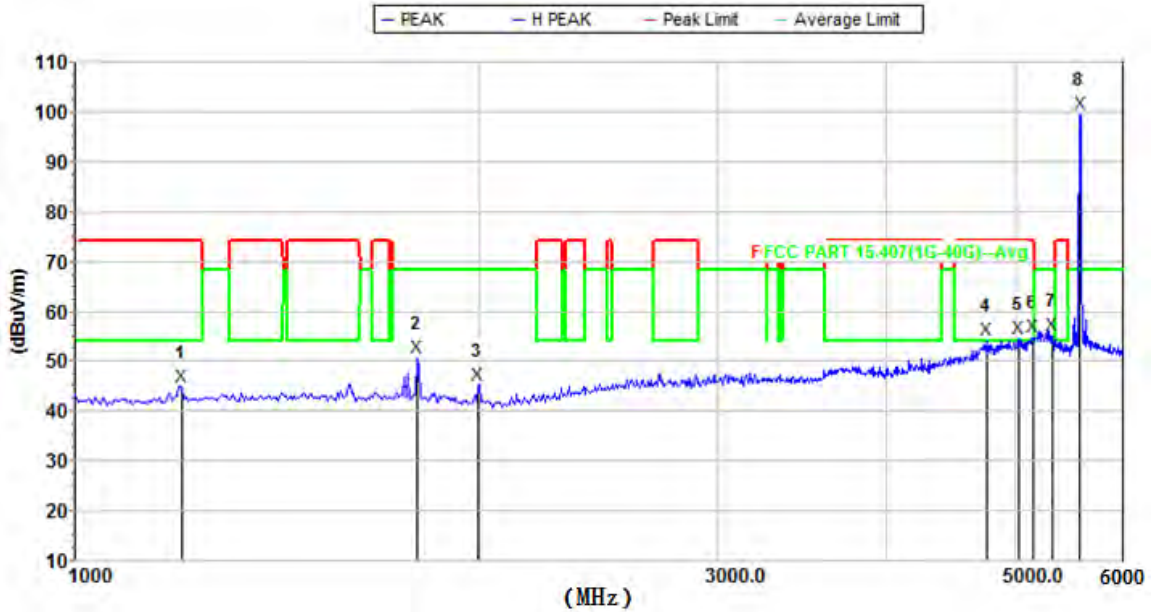
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,

Telephone :+886-2-7737-3000

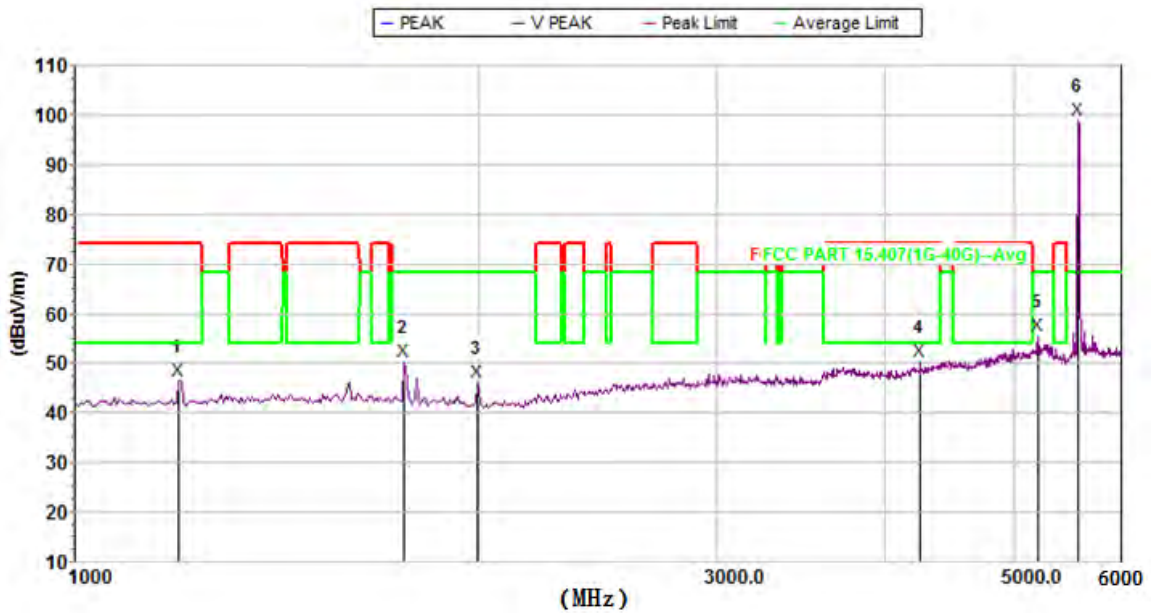
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11n HT20 Ch 116 5580MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT20 Ch 116 5580MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	45.1	74.0	28.9	25.0	40.2	3.0	10.0	H
2	1795.000	50.9	68.2	17.3	25.9	40.4	3.7	10.0	H
3	1995.000	45.4	68.2	22.8	26.1	40.4	4.1	10.0	H
4	4755.000	54.4	74.0	19.6	31.2	41.8	6.3	10.0	H
5	5020.000	54.6	74.0	19.4	31.5	41.9	6.4	10.0	H
6	5150.000	55.0	74.0	19.0	31.6	42.0	6.7	10.0	H
7	5325.000	55.4	68.2	12.8	31.8	42.1	7.0	10.0	H
8 F	5580	99.6	-	-	32.1	42.1	7.4	10.0	H
Avg									
1	4755.000	46.3	54.0	7.7	31.2	41.8	6.3	10.0	H
2	5020.000	46.37	54.0	7.6	31.5	41.9	6.4	10.0	H
3	5150.000	46.62	54.0	7.4	31.6	42.0	6.7	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	46.7	74.0	27.3	25.0	40.2	3.0	10.0	V
2	1755.000	50.3	68.2	17.9	25.9	40.3	3.7	10.0	V
3	1995.000	46.3	68.2	21.9	26.1	40.4	4.1	10.0	V
4	4250.000	50.5	74.0	23.5	30.3	41.6	5.7	10.0	V
5	5200.000	55.7	68.2	12.5	31.7	42.0	6.7	10.0	V
6 F	5580	99.0	-	-	32.1	42.1	7.4	10.0	V

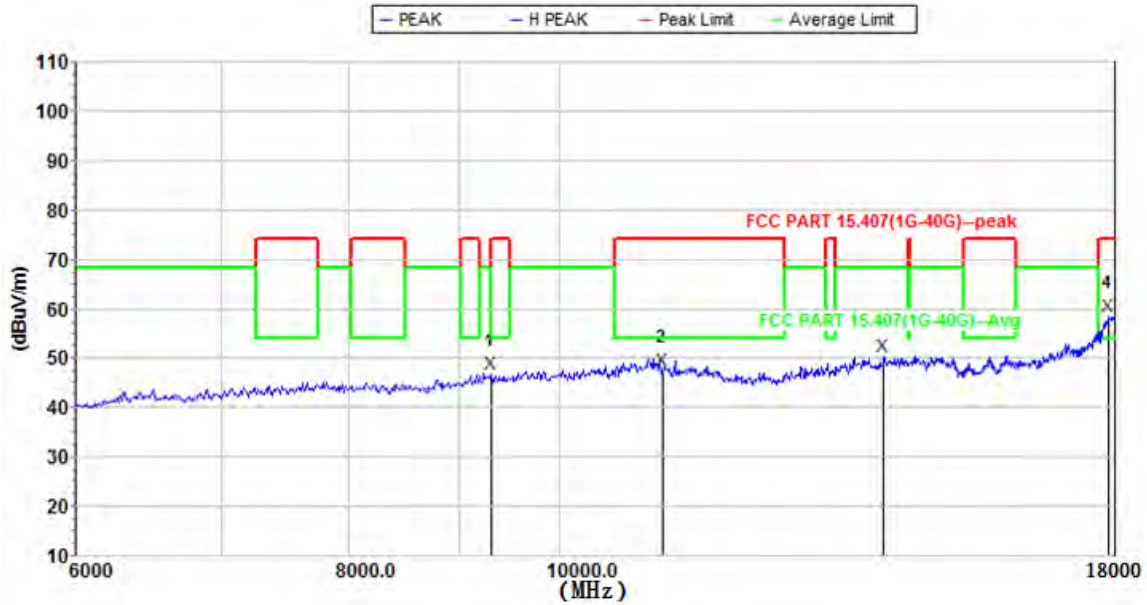
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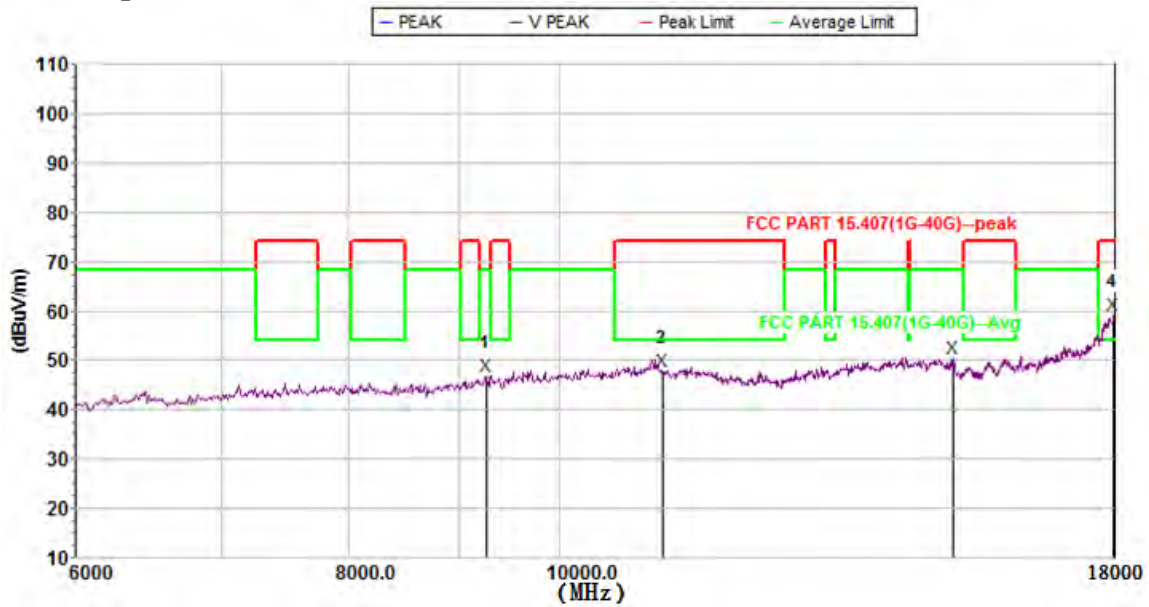
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Spurious Emission 802.11n HT20 Ch 116 5580MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT20 Ch 116 5580MHz 6-18GHz Vertical



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Issued date : 2017/11/24

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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9312.000	47.0	74.0	27.0	38.0	41.9	8.0	0.5	H
2	11160.000	47.4	74.0	26.6	40.2	42.0	10.2	0.9	H
3	14100.000	50.3	68.2	17.9	41.0	40.6	10.3	1.0	H
4	17892.000	58.4	74.0	15.6	47.6	41.2	13.6	4.6	H
Avg									
1	17892.000	50.03	54.0	4.0	47.6	41.2	13.6	4.6	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9264.000	46.9	68.2	21.3	37.9	41.9	8.0	0.5	V
2	11160.000	47.8	74.0	26.2	40.2	42.0	10.2	0.9	V
3	15180.000	50.3	68.2	17.9	39.9	40.8	10.9	2.2	V
4	17976.000	59.2	74.0	14.8	48.8	41.3	12.5	4.6	V
Avg									
1	17976.000	50.17	54.0	3.8	48.8	41.3	12.5	4.6	V

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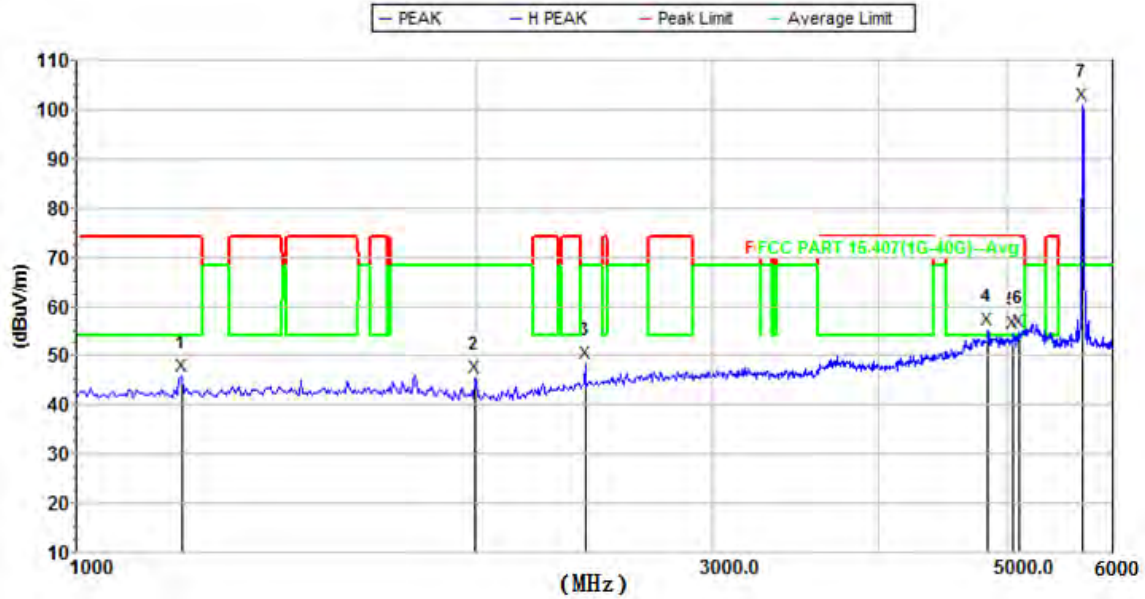
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Telephone :+886-2-7737-3000

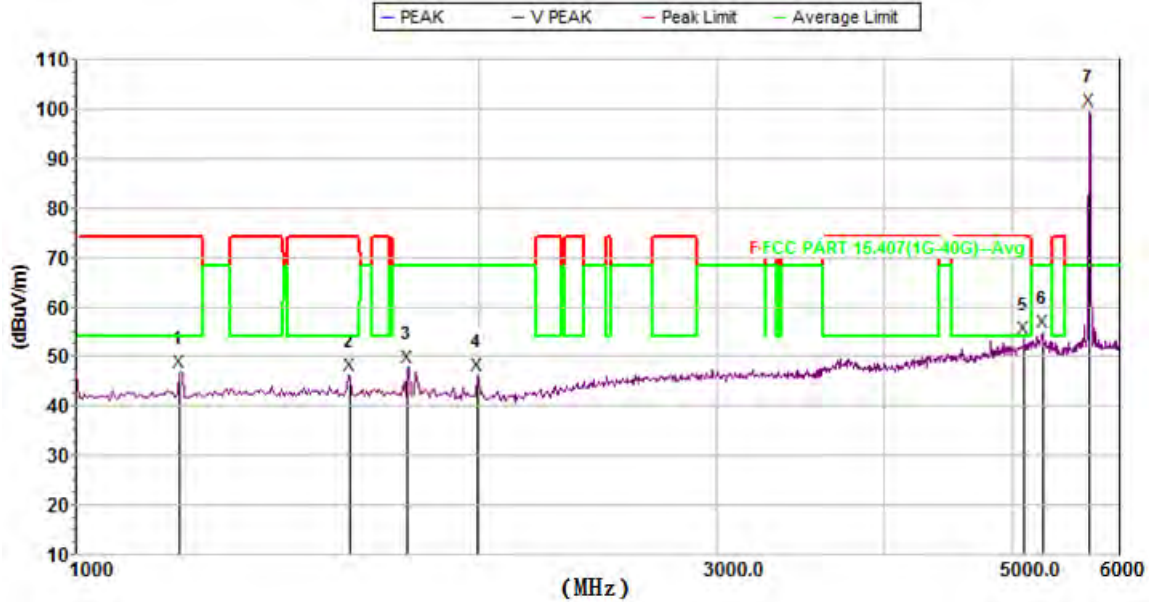
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Spurious Emission 802.11n HT20 Ch 140 5700MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT20 Ch 140 5700MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	45.8	74.0	28.2	25.0	40.2	3.0	10.0	H
2	1995.000	45.5	68.2	22.7	26.1	40.4	4.1	10.0	H
3	2410.000	48.5	68.2	19.7	27.3	40.5	4.4	10.0	H
4	4835.000	55.2	74.0	18.8	31.3	41.9	6.4	10.0	H
5	5055.000	54.5	74.0	19.5	31.6	42.0	6.5	10.0	H
6	5100.000	55.1	74.0	18.9	31.6	42.0	6.6	10.0	H
7 F	5700	100.9	-	-	32.3	42.2	7.7	10.0	H
Avg									
1	4835.000	46.25	54.0	7.8	31.3	41.9	6.4	10.0	H
2	5055.000	46.55	54.0	7.5	31.6	42.0	6.5	10.0	H
3	5100.000	47.01	54.0	7.0	31.6	42.0	6.6	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	47.0	74.0	27.0	25.0	40.2	3.0	10.0	V
2	1600.000	46.4	74.0	27.6	25.7	40.3	3.5	10.0	V
3	1765.000	47.9	68.2	20.3	25.9	40.3	3.7	10.0	V
4	1990.000	46.1	68.2	22.1	26.1	40.4	4.1	10.0	V
5	5095.000	53.7	74.0	20.3	31.6	42.0	6.6	10.0	V
6	5255.000	55.0	68.2	13.2	31.8	42.0	6.9	10.0	V
7 F	5700.000	99.5	-	-	32.3	42.2	7.7	10.0	V
Avg									
1	5095.000	46.22	54.0	7.8	31.6	42.0	6.6	10.0	V

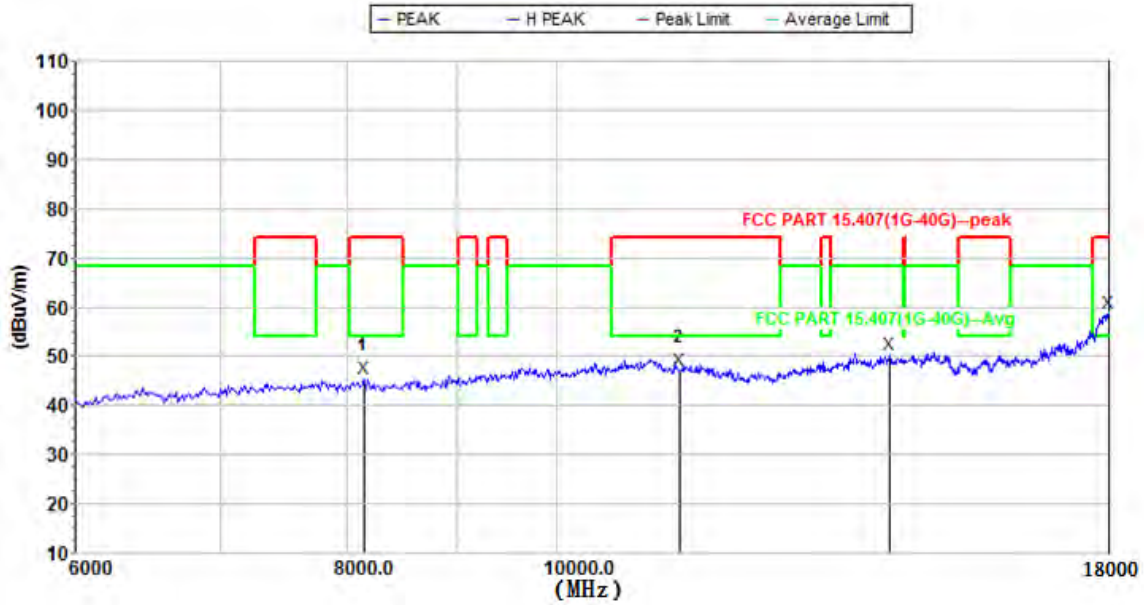
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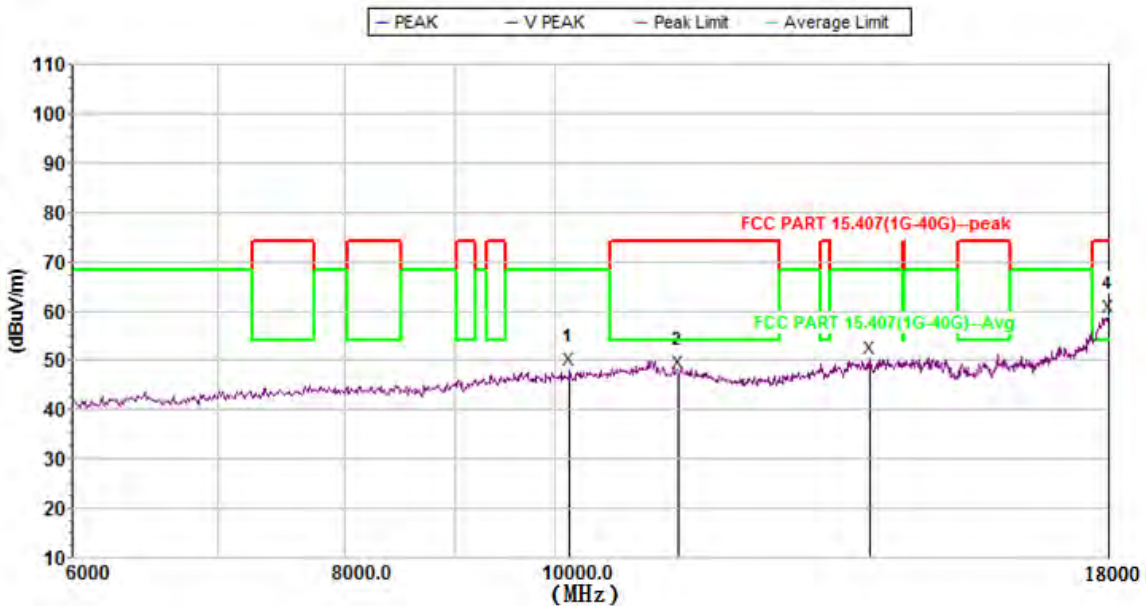
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,
Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11n HT20 Ch 140 5700MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT20 Ch 140 5700MHz 6-18GHz Vertical



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Test report No. : 4788166493A-US-R4-V0

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FCC ID : A43-WISP5

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	8160.000	45.6	74.0	28.4	37.0	42.2	7.5	0.1	H
2	11400.000	47.3	74.0	26.7	40.1	42.0	10.3	0.8	H
3	14268.000	50.6	68.2	17.6	41.3	40.6	10.2	1.0	H
4	18000.000	58.9	74.0	15.1	49.1	41.3	12.1	4.7	H
Avg									
1	18000.000	50.09	54.0	3.9	49.1	41.3	12.1	4.7	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	10164.000	48.1	68.2	20.1	39.0	41.9	8.8	0.6	V
2	11400.000	47.5	74.0	26.5	40.1	42.0	10.3	0.8	V
3	13980.000	50.5	68.2	17.7	40.9	40.6	10.3	1.0	V
4	17988.000	58.9	74.0	15.1	48.9	41.3	12.3	4.6	V
Avg									
1	17988.000	50.11	54.0	3.9	48.9	41.3	12.3	4.6	V

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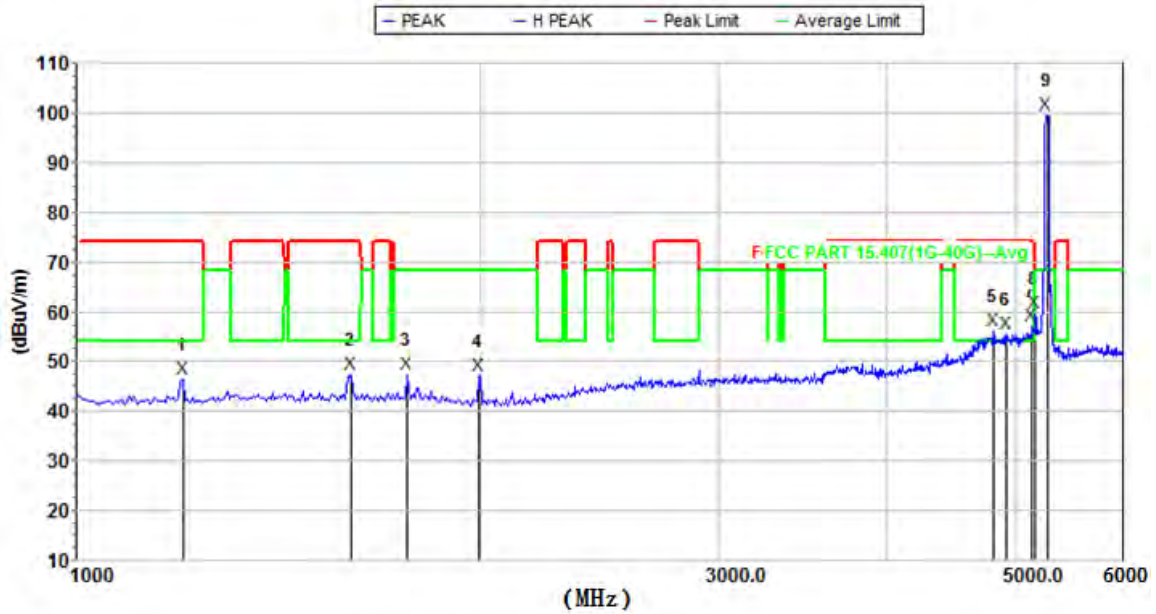
Building B and Building E, No.372-7 Hsinchu County, Taiwan, Sec. 4, Zhongxing Rd., Zhudong Township,

Telephone :+886-2-7737-3000

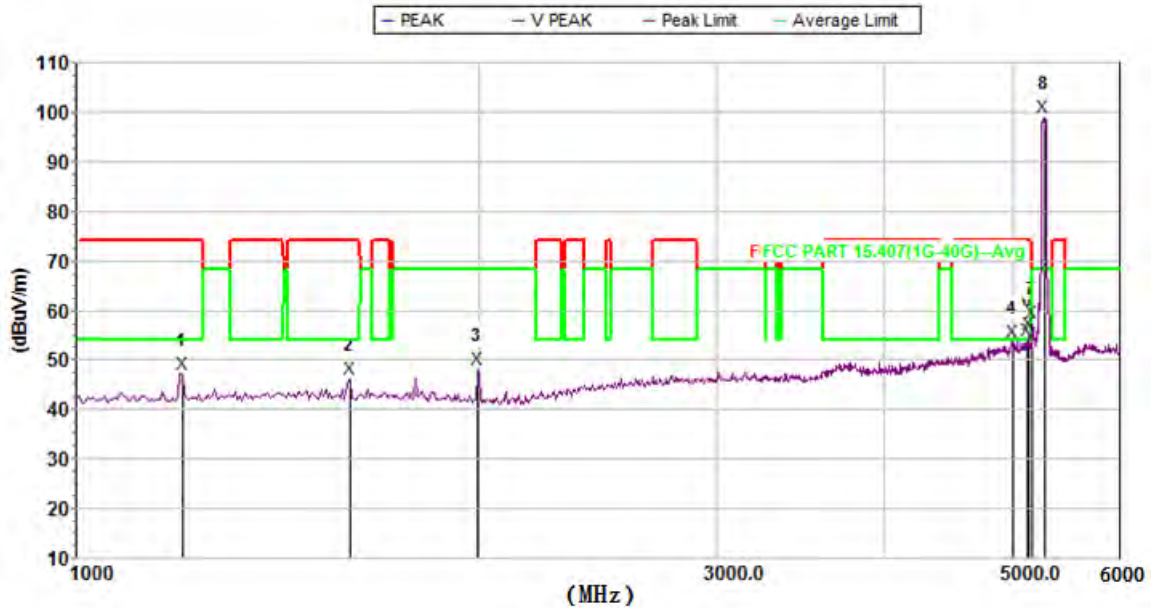
Facsimile (FAX) :+886-2-7737-3610



Spurious Emission 802.11n HT40 Ch 54 5270MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT40 Ch 54 5270MHz 1-6GHz Vertical



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Test report No. : 4788166493A-US-R4-V0
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	46.5	74.0	27.5	25.0	40.2	3.0	10.0	H
2	1600.000	47.6	74.0	26.4	25.7	40.3	3.5	10.0	H
3	1760.000	47.6	68.2	20.6	25.9	40.3	3.7	10.0	H
4	1995.000	47.2	68.2	21.0	26.1	40.4	4.1	10.0	H
5	4810.000	56.2	74.0	17.8	31.2	41.9	6.4	10.0	H
6	4910.000	55.6	74.0	18.4	31.4	41.9	6.5	10.0	H
7	5140.000	57.3	74.0	16.7	31.6	42.0	6.7	10.0	H
8	5165.000	59.8	68.2	8.4	31.7	42.0	6.7	10.0	H
9 F	5270	99.6	-	-	31.8	42.0	6.9	10.0	H
Avg									
1	4810.000	46.38	54.0	7.6	31.2	41.9	6.4	10.0	H
2	4910.000	46.55	54.0	7.5	31.4	41.9	6.5	10.0	H
3	5140.000	47.11	54.0	6.9	31.6	42.0	6.7	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	47.3	74.0	26.7	25.0	40.2	3.0	10.0	V
2	1600.000	46.2	74.0	27.8	25.7	40.3	3.5	10.0	V
3	1995.000	48.3	68.2	19.9	26.1	40.4	4.1	10.0	V
4	4995.000	53.7	74.0	20.3	31.5	41.9	6.4	10.0	V
5	5120.000	54.1	74.0	19.9	31.6	42.0	6.6	10.0	V
6	5135.000	55.4	74.0	18.6	31.6	42.0	6.7	10.0	V
7	5165.000	57.5	68.2	10.7	31.7	42.0	6.7	10.0	V
8 F	5270	99.1	-	-	31.8	42.0	6.9	10.0	V
Avg									
1	4995.000	46.28	54.0	7.7	31.5	41.9	6.4	10.0	V
2	5120.000	46.53	54.0	7.5	31.6	42.0	6.6	10.0	V
3	5135.000	46.69	54.0	7.3	31.6	42.0	6.7	10.0	V

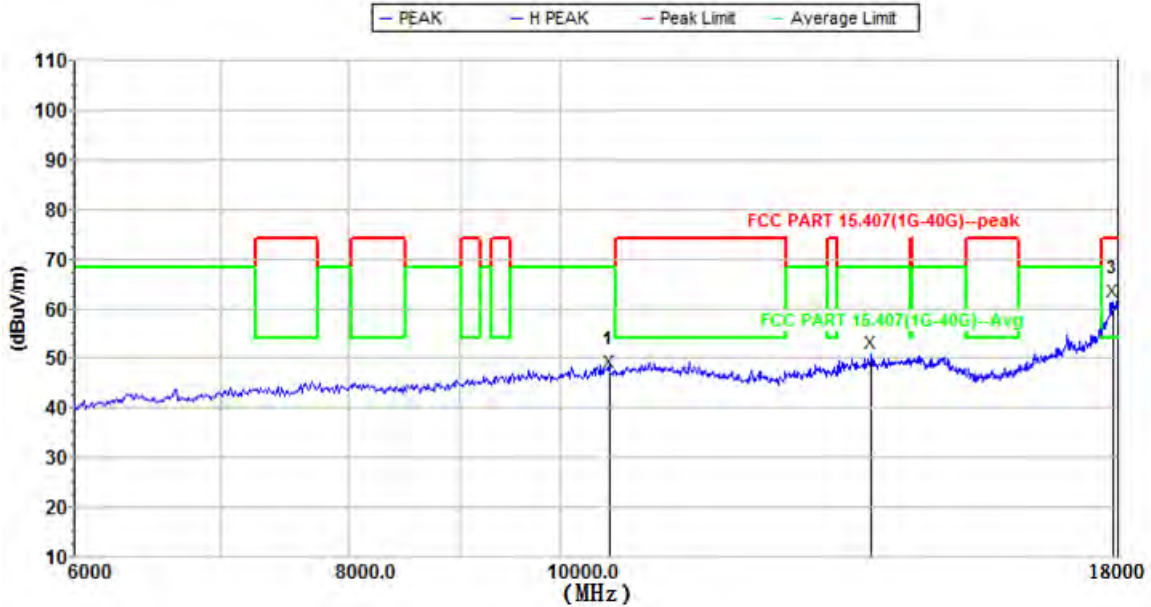
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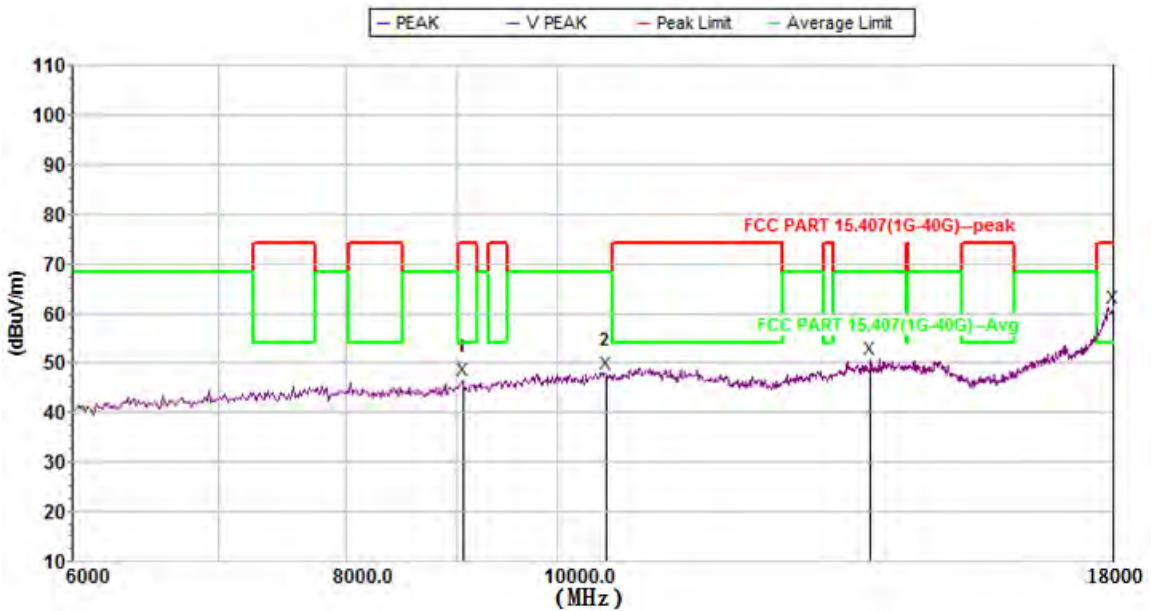
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Spurious Emission 802.11n HT40 Ch 54 5270MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT40 Ch 54 5270MHz 6-18GHz Vertical



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Test report No. : 4788166493A-US-R4-V0
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	10540.000	47.2	68.2	21.0	39.7	42.0	9.3	0.3	H
2	13884.000	51.0	68.2	17.2	40.7	40.6	10.3	1.1	H
3	17904.000	61.6	74.0	12.4	47.8	41.2	13.7	5.7	H
Avg									
1	17904.000	51.22	54.0	2.8	47.8	41.2	13.7	5.7	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9060.000	46.6	74.0	27.4	37.4	42.0	7.8	0.4	V
2	10540.000	47.8	68.2	20.4	39.7	42.0	9.3	0.3	V
3	13932.000	50.9	68.2	17.3	40.8	40.6	10.3	1.1	V
4	18000.000	61.2	74.0	12.8	49.1	41.3	12.1	5.9	V
Avg									
1	18000.000	51.23	54.0	2.8	49.1	41.3	12.1	5.9	V

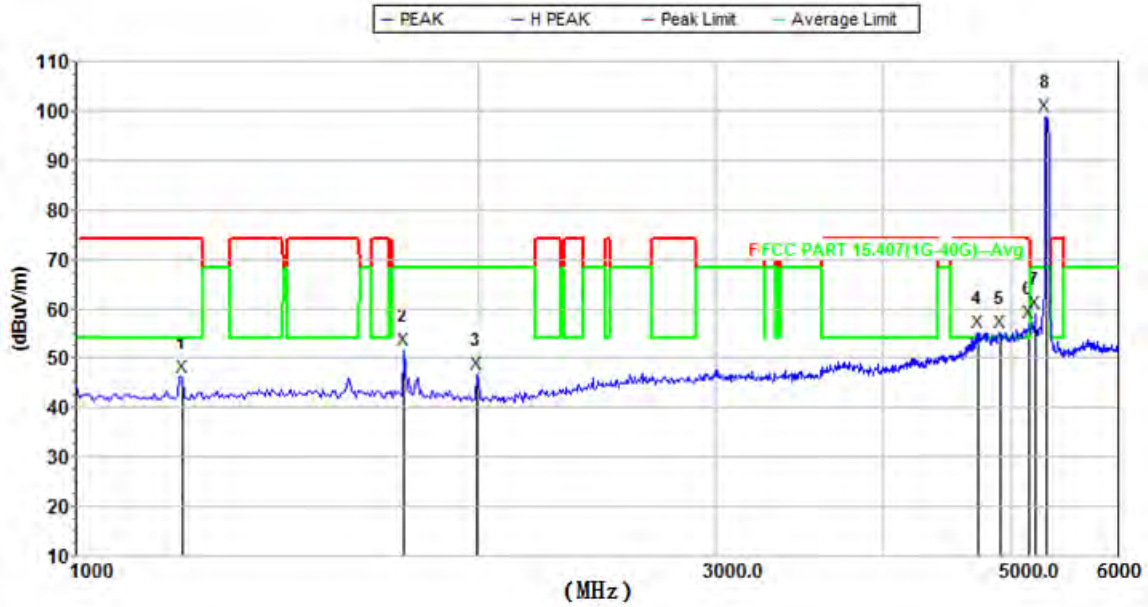
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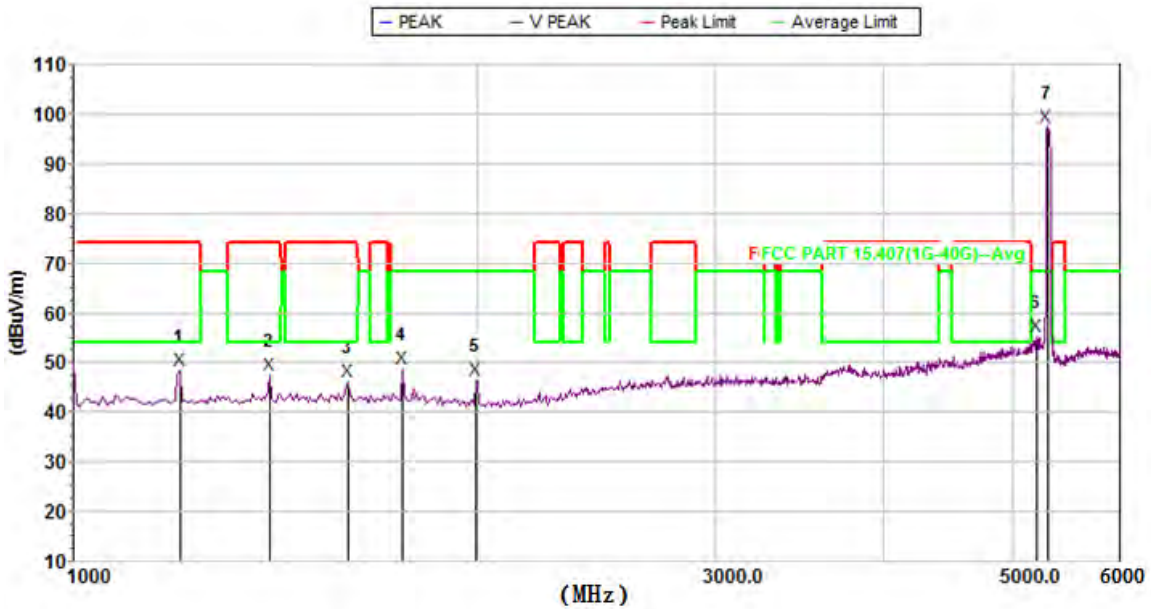
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Spurious Emission 802.11n HT40 Ch 62 5310MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT40 Ch 62 5310MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	46.3	74.0	27.7	25.0	40.2	3.0	10.0	H
2	1755.000	51.8	68.2	16.4	25.9	40.3	3.7	10.0	H
3	1990.000	47.0	68.2	21.2	26.1	40.4	4.1	10.0	H
4	4720.000	55.2	74.0	18.8	31.1	41.8	6.2	10.0	H
5	4905.000	55.3	74.0	18.7	31.4	41.9	6.5	10.0	H
6	5150.000	57.1	74.0	16.9	31.6	42.0	6.7	10.0	H
7	5205.000	59.3	68.2	8.9	31.7	42.0	6.7	10.0	H
8 F	5310	98.9	-	-	31.8	42.1	7.0	10.0	H
Avg									
1	4720.000	46.29	54.0	7.7	31.1	41.8	6.2	10.0	H
2	4905.000	46.73	54.0	7.3	31.4	41.9	6.5	10.0	H
3	5150.000	47.25	54.0	6.8	31.6	42.0	6.7	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	48.5	74.0	25.5	25.0	40.2	3.0	10.0	V
2	1400.000	47.4	74.0	26.6	25.4	40.2	3.2	10.0	V
3	1600.000	46.3	74.0	27.7	25.7	40.3	3.5	10.0	V
4	1755.000	48.7	68.2	19.5	25.9	40.3	3.7	10.0	V
5	1995.000	46.6	68.2	21.6	26.1	40.4	4.1	10.0	V
6	5200.000	55.4	68.2	12.8	31.7	42.0	6.7	10.0	V
7 F	5310	97.5	-	-	31.8	42.1	7.0	10.0	V

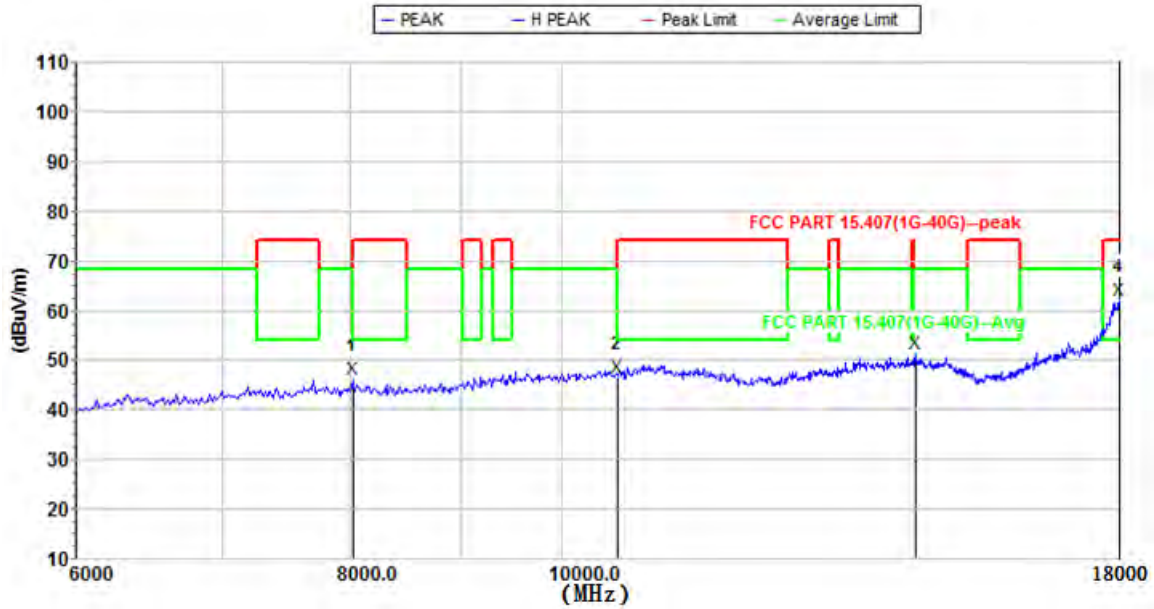
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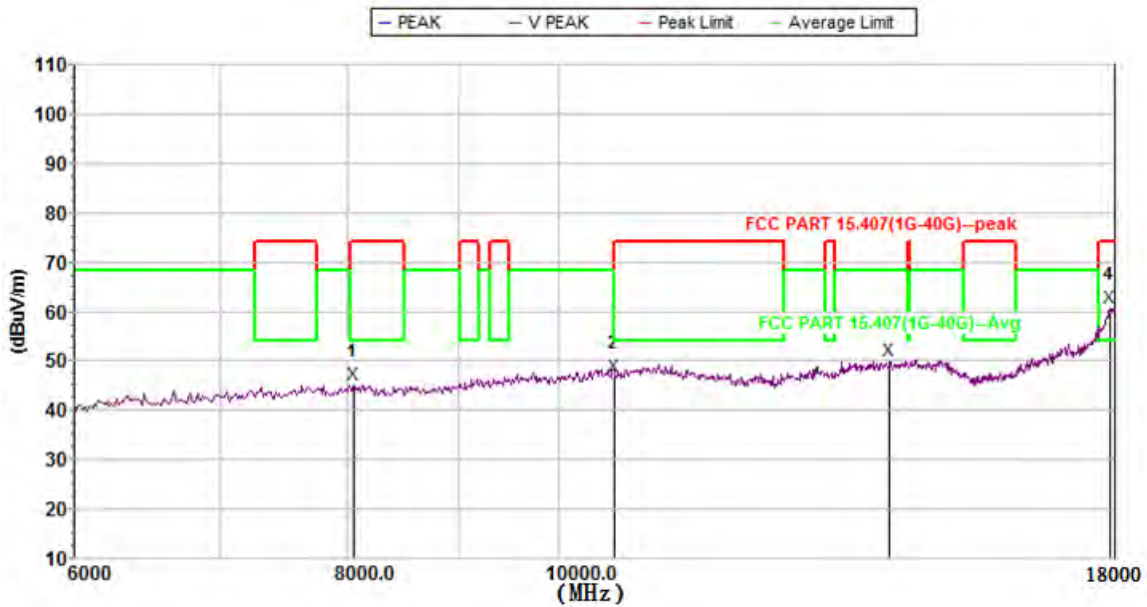
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Telephone :+886-2-7737-3000
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Spurious Emission 802.11n HT40 Ch 62 5310MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT40 Ch 62 5310MHz 6-18GHz Vertical



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Test report No. : 4788166493A-US-R4-V0

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Issued date : 2017/11/24

FCC ID : A43-WISP5

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	8028.000	46.2	74.0	27.8	37.1	42.2	7.5	0.3	H
2	10620.000	46.7	74.0	27.3	39.8	42.0	9.4	0.4	H
3	14520.000	51.5	68.2	16.7	41.6	40.7	10.4	40.7	H
4	17988.000	62.1	74.0	11.9	48.9	41.3	12.3	5.9	H
Avg									
1	17988.000	51.27	54.0	2.7	48.9	41.3	12.3	5.9	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	8064.000	45.2	74.0	28.8	37.1	42.2	7.5	0.3	V
2	10620.000	47.0	74.0	27.0	39.8	42.0	9.4	0.4	V
3	14196.000	50.2	68.2	18.0	41.2	40.6	10.4	1.1	V
4	17916.000	60.9	74.0	13.1	47.9	41.2	13.5	5.7	V
Avg									
1	17916.000	51.2	54.0	2.8	47.9	41.2	13.5	5.7	V

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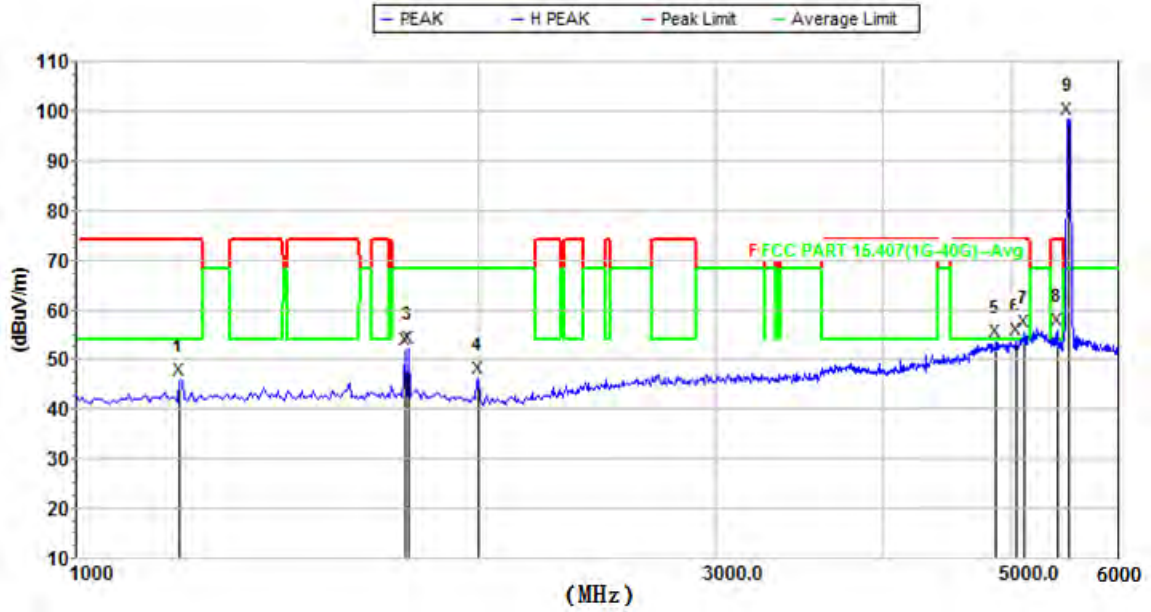
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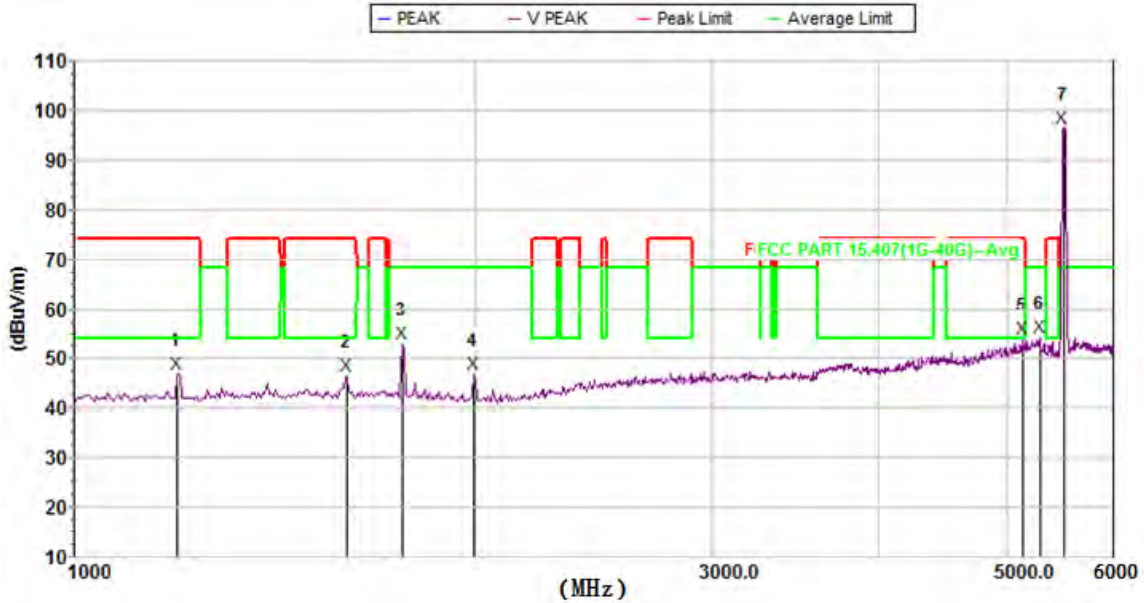
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Spurious Emission 802.11n HT40 Ch 102 5510MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT40 Ch 102 5510MHz 1-6GHz Vertical



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Test report No. : 4788166493A-US-R4-V0
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	45.8	74.0	28.2	25.0	40.2	3.0	10.0	H
2	1760.000	52.0	68.2	16.2	25.9	40.3	3.7	10.0	H
3	1770.000	52.5	68.2	15.7	25.9	40.3	3.7	10.0	H
4	2000.000	46.4	68.2	21.8	26.1	40.4	4.1	10.0	H
5	4860.000	53.6	74.0	20.4	31.3	41.9	6.4	10.0	H
6	5030.000	54.1	74.0	19.9	31.5	42.0	6.4	10.0	H
7	5110.000	55.5	74.0	18.5	31.6	42.0	6.6	10.0	H
8	5405.000	56.0	74.0	18.0	31.9	42.1	7.0	10.0	H
9 F	5510	98.4	-	-	32.0	42.1	7.3	10.0	H
Avg									
1	4860.000	46.07	54.0	7.9	31.3	41.9	6.4	10.0	H
2	5030.000	46.43	54.0	7.6	31.5	42.0	6.4	10.0	H
3	5110.000	46.74	54.0	7.3	31.6	42.0	6.6	10.0	H
4	5405.000	47.28	54.0	6.7	31.9	42.1	7.0	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	46.9	74.0	27.1	25.0	40.2	3.0	10.0	V
2	1600.000	46.5	74.0	27.5	25.7	40.3	3.5	10.0	V
3	1760.000	52.9	68.2	15.3	25.9	40.3	3.7	10.0	V
4	1990.000	47.0	68.2	21.2	26.1	40.4	4.1	10.0	V
5	5140.000	54.0	74.0	20.0	31.6	42.0	6.7	10.0	V
6	5285.000	54.4	68.2	13.8	31.8	42.0	7.0	10.0	V
7 F	5510	96.5	-	-	32.0	42.1	7.3	10.0	V
Avg									
1	5140.000	46.52	54.0	7.5	31.6	42.0	6.7	10.0	V

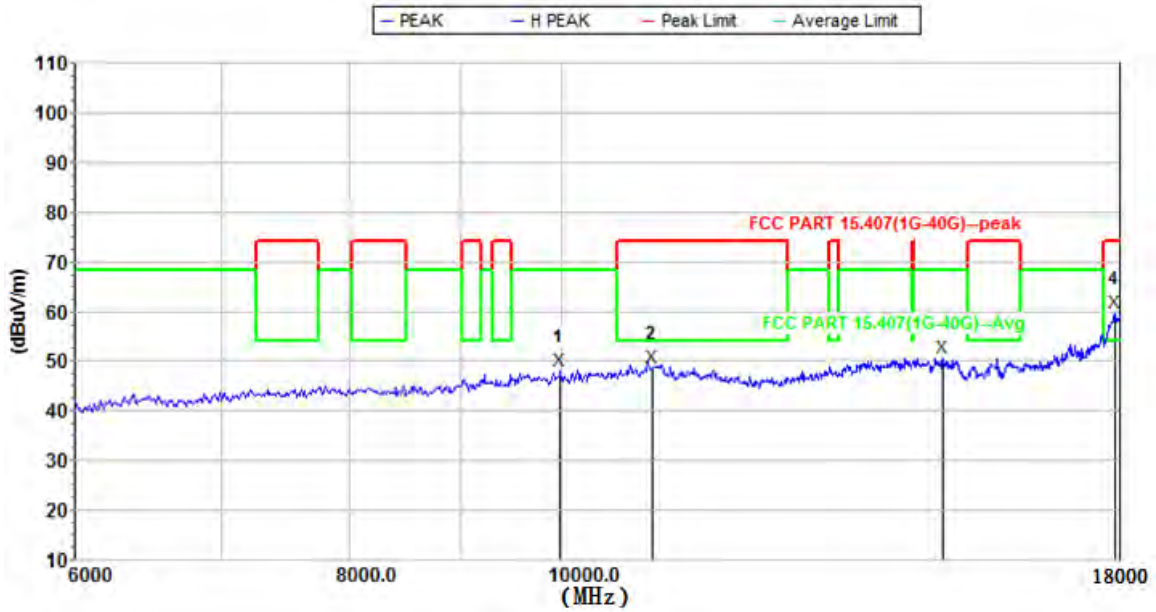
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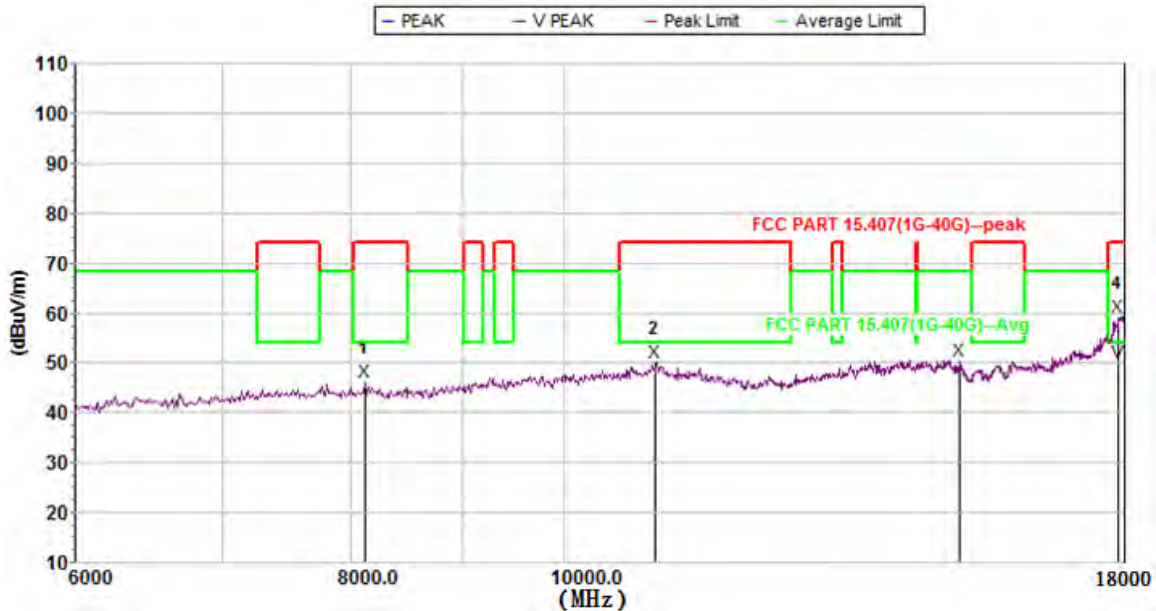
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Spurious Emission 802.11n HT40 Ch 102 5510MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT40 Ch 102 5510MHz 6-18GHz Vertical



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Issued date : 2017/11/24
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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9996.000	48.3	68.2	19.9	38.7	41.8	8.7	0.6	H
2	11020.000	48.8	74.0	25.2	40.3	42.1	10.0	1.0	H
3	14952.000	50.8	68.2	17.4	40.9	40.8	10.9	1.8	H
4	17904.000	59.7	74.0	14.3	47.8	41.2	13.7	4.6	H
Avg									
1	17904.000	50.2	54.0	3.8	47.8	41.2	13.7	4.6	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	8124.000	46.3	74.0	27.7	37.0	42.2	7.5	0.1	V
2	11020.000	50.0	74.0	24.0	40.3	42.1	10.0	1.0	V
3	15156.000	50.4	68.2	17.8	40.0	40.8	10.8	2.1	V
4	17892.000	59.2	74.0	14.8	47.6	41.2	13.6	4.6	V
Avg									
1	17892.000	50.22	54.0	3.8	47.6	41.2	13.6	4.6	V

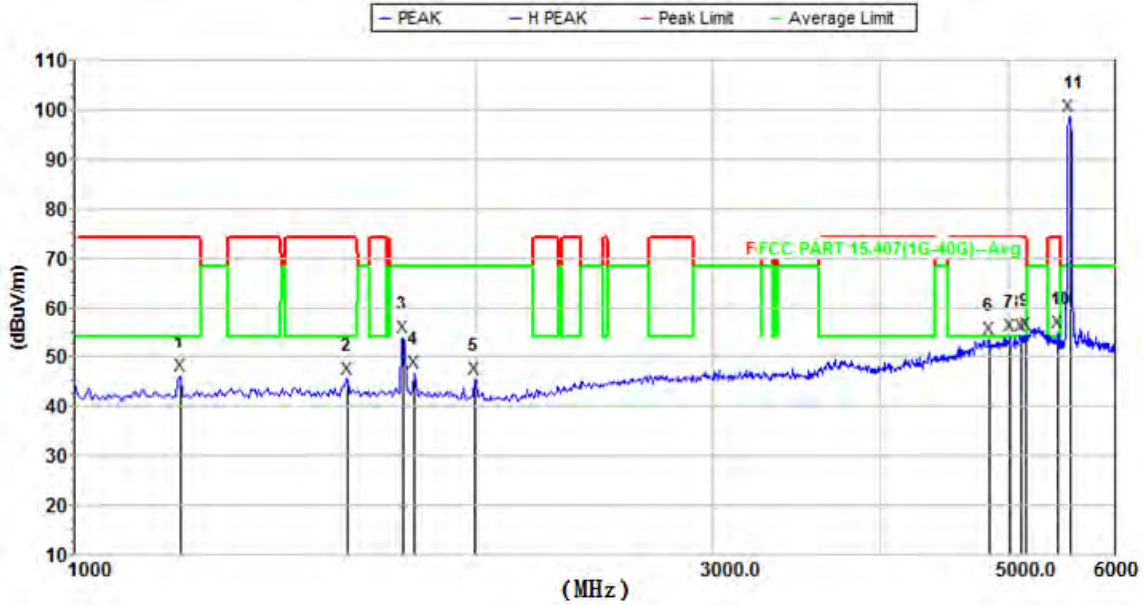
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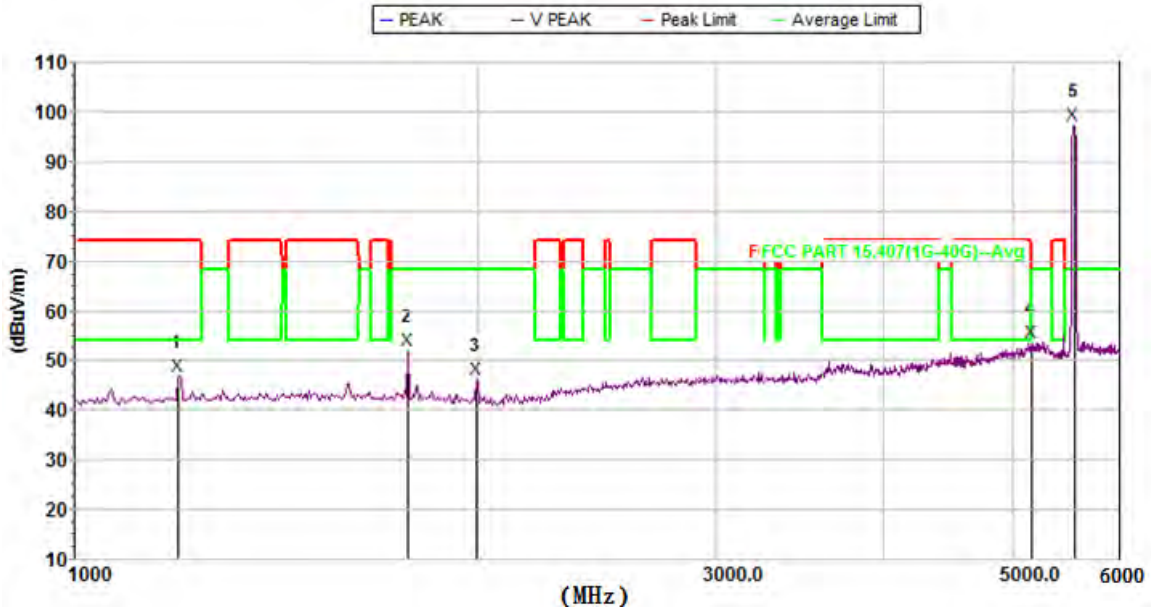
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Spurious Emission 802.11n HT40 Ch 110 5550MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT40 Ch 110 5550MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	46.1	74.0	27.9	25.0	40.2	3.0	10.0	H
2	1600.000	45.6	74.0	28.4	25.7	40.3	3.5	10.0	H
3	1760.000	53.9	68.2	14.3	25.9	40.3	3.7	10.0	H
4	1795.000	47.0	68.2	21.2	25.9	40.4	3.7	10.0	H
5	1990.000	45.7	68.2	22.5	26.1	40.4	4.1	10.0	H
6	4830.000	53.6	74.0	20.4	31.3	41.9	6.4	10.0	H
7	5010.000	54.3	74.0	19.7	31.5	41.9	6.4	10.0	H
8	5110.000	54.4	74.0	19.6	31.6	42.0	6.6	10.0	H
9	5150.000	54.8	74.0	19.2	31.6	42.0	6.7	10.0	H
10	5440.000	54.9	74.0	19.1	31.9	42.1	7.1	10.0	H
11 F	5550	98.8	-	-	32.1	42.1	7.4	10.0	H
Avg									
1	4830.000	45.23	54.0	8.77	31.3	41.9	6.4	10.0	H
2	5010.000	46.62	54.0	7.38	31.5	41.9	6.4	10.0	H
3	5110.000	46.78	54.0	7.22	31.6	42.0	6.6	10.0	H
4	5150.000	47.11	54.0	6.89	31.6	42.0	6.7	10.0	H
5	5440.000	47.26	54.0	6.74	31.9	42.1	7.1	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	46.9	74.0	27.1	25.0	40.2	3.0	10.0	V
2	1770.000	52.0	68.2	16.2	25.9	40.3	3.7	10.0	V
3	1990.000	46.1	68.2	22.1	26.1	40.4	4.1	10.0	V
4	5165.000	53.7	68.2	14.5	31.7	42.0	6.7	10.0	V
5 F	5550	97.3	-	-	32.1	42.1	7.4	10.0	V

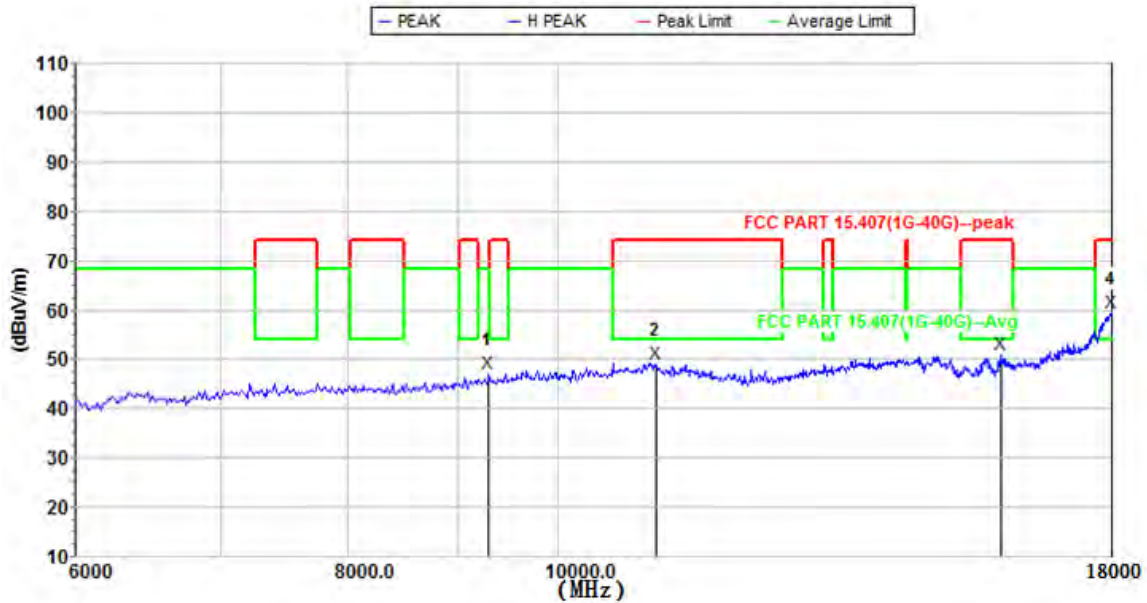
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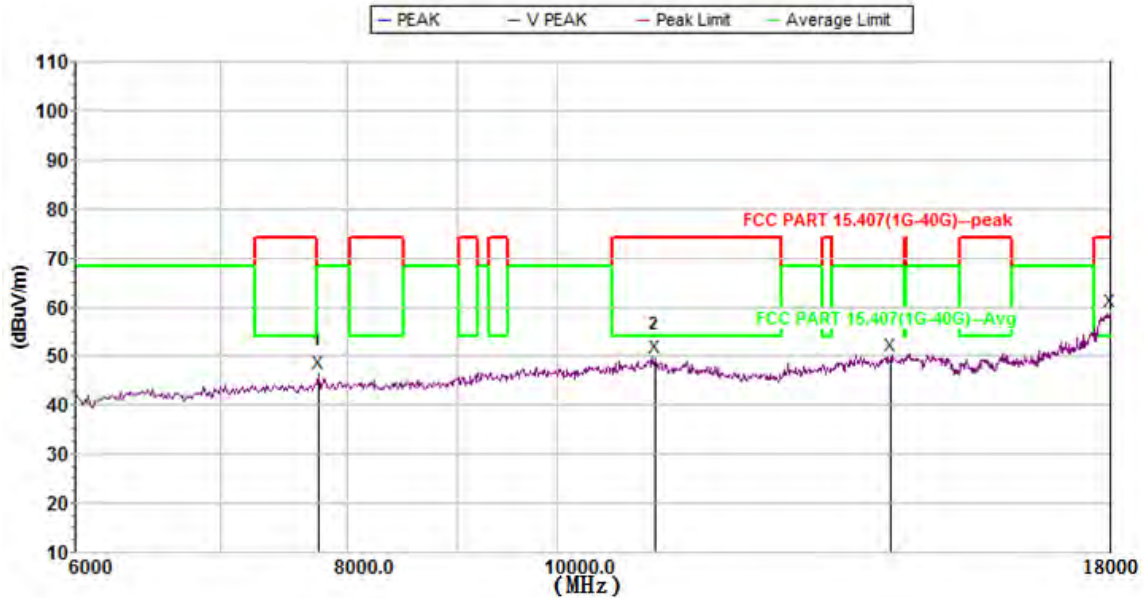
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Spurious Emission 802.11n HT40 Ch 110 5550MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT40 Ch 110 5550MHz 6-18GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9300.000	47.1	74.0	26.9	38.0	41.9	7.9	0.5	H
2	11100.000	49.3	74.0	24.7	40.3	42.0	10.1	0.9	H
3	15996.000	51.2	74.0	22.8	37.5	40.7	11.2	4.9	H
4	17988.000	59.4	74.0	14.6	48.9	41.3	12.3	4.6	H
Avg									
1	17988.000	50.33	54.0	3.7	48.9	41.3	12.3	4.6	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	7764.000	46.5	68.2	21.7	36.8	42.2	7.4	0.1	V
2	11100.000	49.7	74.0	24.3	40.3	42.0	10.1	0.9	V
3	14268.000	50.0	68.2	18.2	41.3	40.6	10.2	1.0	V
4	18000.000	59.1	74.0	14.9	49.1	41.3	12.1	4.7	V
Avg									
1	18000.000	50.19	54.0	3.8	49.1	41.3	12.1	4.7	V

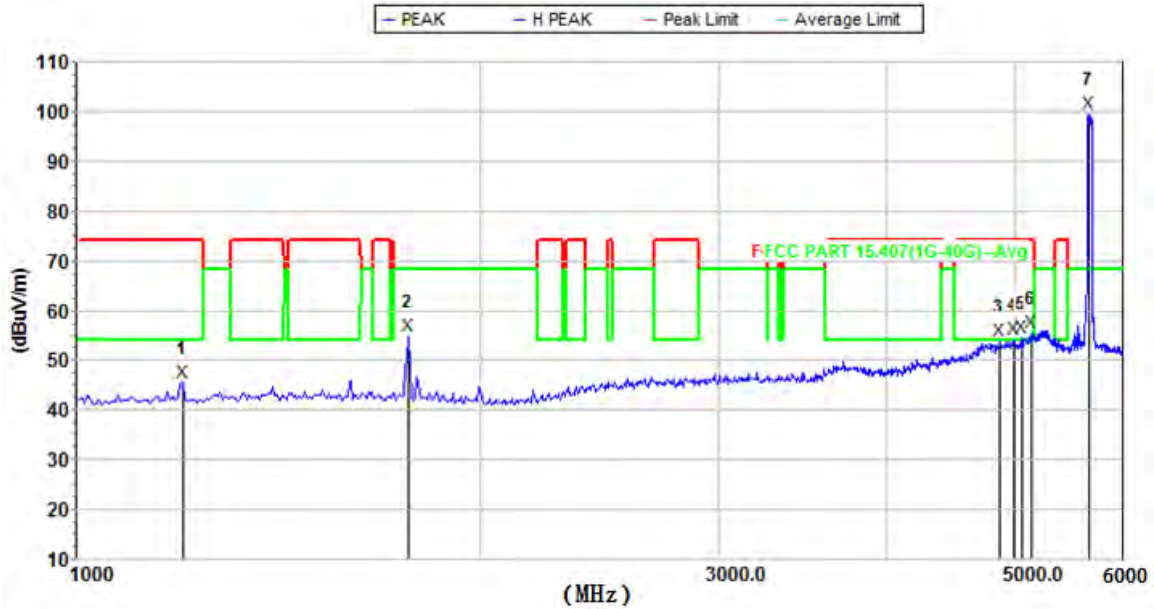
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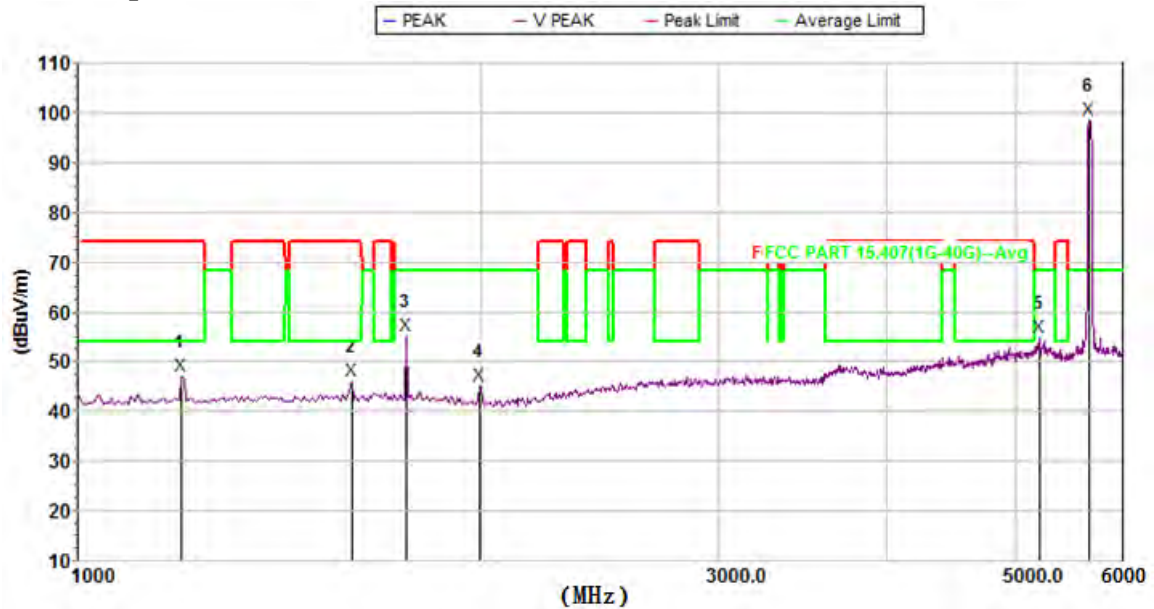
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Spurious Emission 802.11n HT40 Ch 134 5670MHz 1-6GHz Horizontal



Spurious Emission 802.11n HT40 Ch 134 5670MHz 1-6GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1200.000	45.6	74.0	28.4	25.0	40.2	3.0	10.0	H
2	1765.000	55.1	68.2	13.1	25.9	40.3	3.7	10.0	H
3	4865.000	54.0	74.0	20.0	31.3	41.9	6.4	10.0	H
4	4975.000	54.2	74.0	19.8	31.5	41.9	6.4	10.0	H
5	5050.000	54.6	74.0	19.4	31.6	42.0	6.5	10.0	H
6	5140.000	55.7	74.0	18.3	31.6	42.0	6.7	10.0	H
7 F	5670.000	99.6	-	-	32.2	42.2	7.6	10.0	H
Avg									
1	4865.000	46.09	54.0	7.9	31.3	41.9	6.4	10.0	H
2	4975.000	46.19	54.0	7.8	31.5	41.9	6.4	10.0	H
3	5050.000	46.38	54.0	7.6	31.6	42.0	6.5	10.0	H
4	5140.000	46.56	54.0	7.4	31.6	42.0	6.7	10.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	1195.000	47.3	74.0	26.7	25.0	40.2	3.0	10.0	V
2	1600.000	46.3	74.0	27.7	25.7	40.3	3.5	10.0	V
3	1755.000	55.3	68.2	12.9	25.9	40.3	3.7	10.0	V
4	1995.000	45.4	68.2	22.8	26.1	40.4	4.1	10.0	V
5	5205.000	54.9	68.2	13.3	31.7	42.0	6.7	10.0	V
6 F	5670.000	98.7	-	-	32.2	42.2	7.6	10.0	V

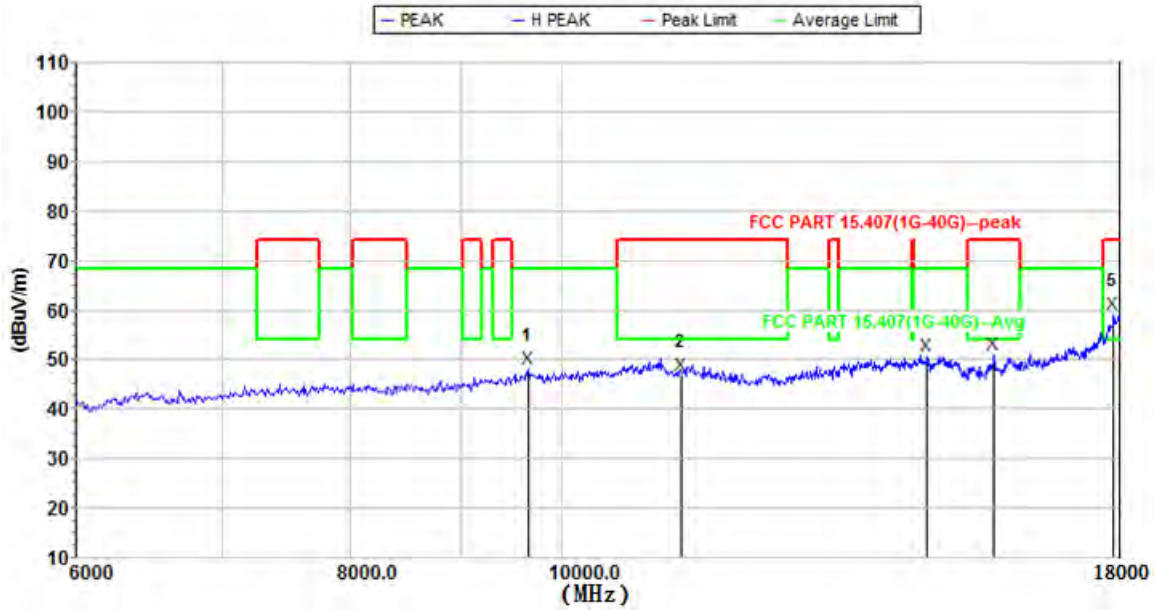
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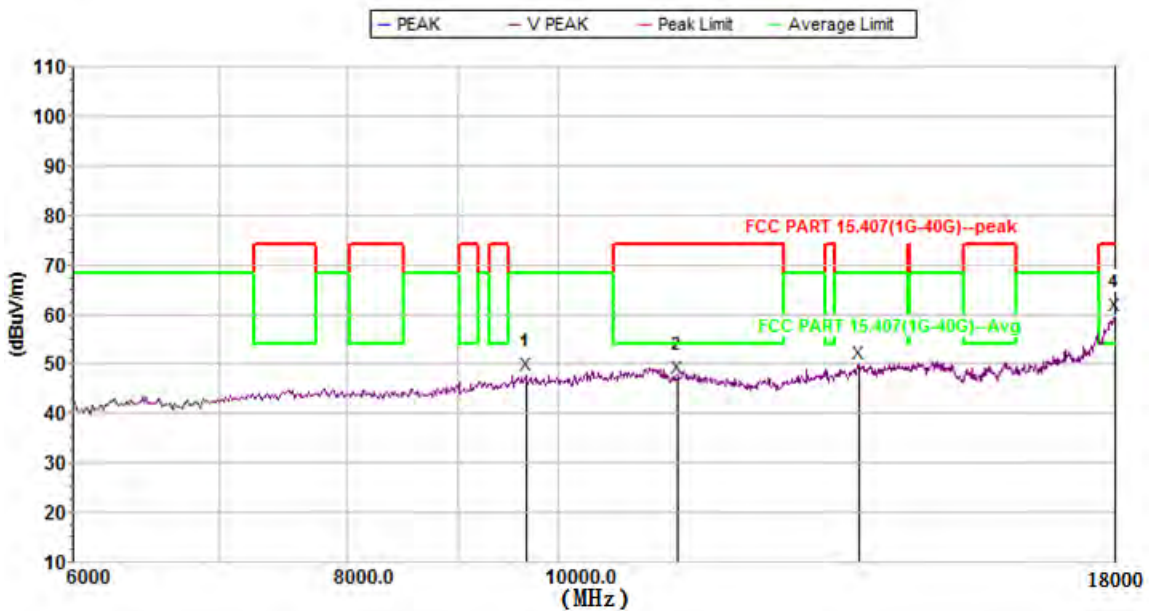
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Spurious Emission 802.11n HT40 Ch 134 5670MHz 6-18GHz Horizontal



Spurious Emission 802.11n HT40 Ch 134 5670MHz 6-18GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9660.000	48.3	68.2	19.9	38.6	41.8	8.2	0.6	H
2	11340.000	47.0	74.0	27.0	40.2	42.0	10.2	0.9	H
3	14700.000	50.8	68.2	17.4	41.3	40.7	10.6	1.3	H
4	15768.000	51.2	74.0	22.8	37.8	40.7	10.8	3.9	H
5	17892.000	59.1	74.0	14.9	47.6	41.2	13.6	4.6	H
Avg									
1	17892.000	50.22	54.0	3.8	47.6	41.2	13.6	4.6	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	9672.000	47.9	68.2	20.3	38.6	41.8	8.2	0.6	V
2	11340.000	47.1	74.0	26.9	40.2	42.0	10.2	0.9	V
3	13740.000	50.2	68.2	18.0	40.5	40.6	10.2	1.2	V
4	17988.000	59.7	74.0	14.3	48.9	41.3	12.3	4.6	V
Avg									
1	17988.000	50.26	54.0	3.7	48.9	41.3	12.3	4.6	V

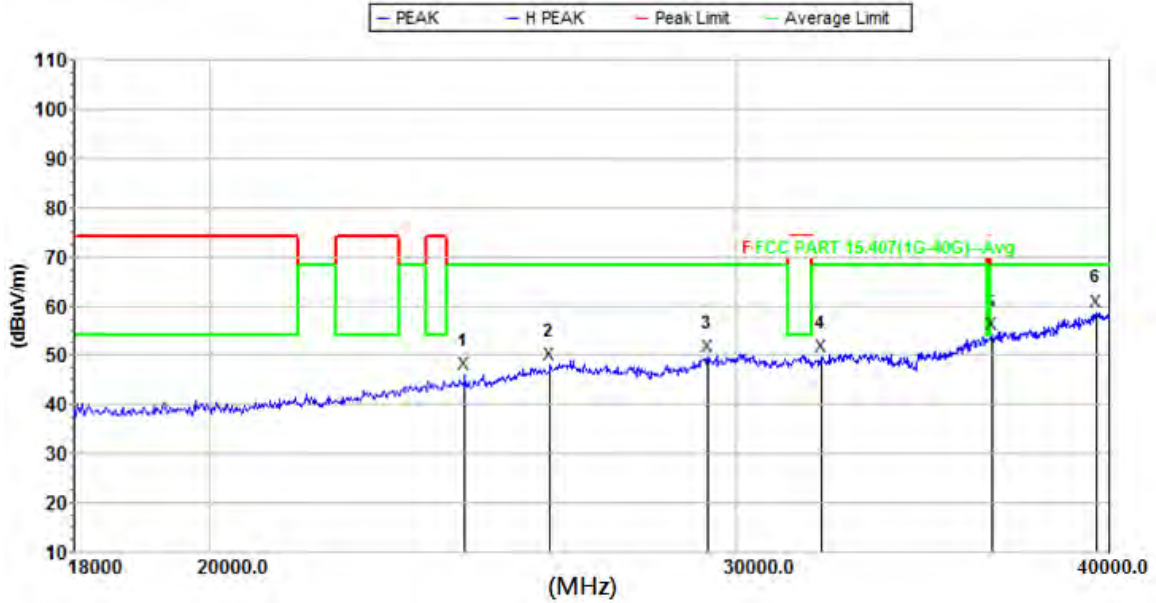
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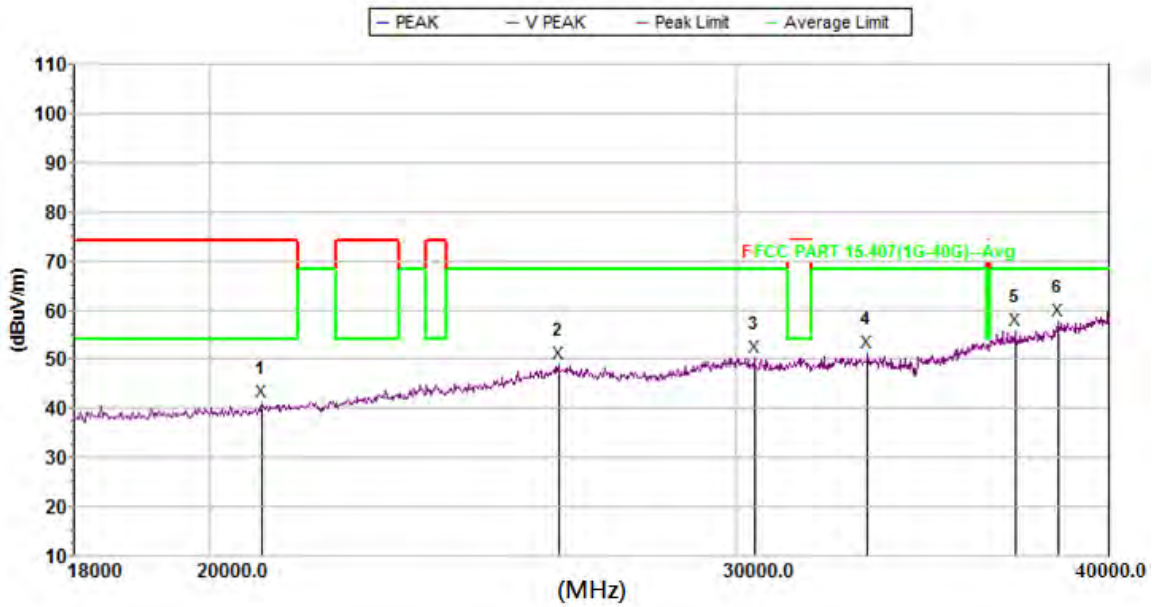
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Spurious Emission Worst case 18-40GHz Horizontal



Spurious Emission Worst case 18-40GHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	24336.000	46.1	68.2	22.1	38.8	44.1	18.4	0.0	H
2	25986.000	48.3	68.2	19.9	39.0	43.9	19.3	0.0	H
3	29352.000	49.7	68.2	18.5	40.3	44.3	20.5	0.0	H
4	32036.000	49.8	68.2	18.4	40.3	45.0	21.8	0.0	H
5	36568.000	54.1	68.2	14.1	42.8	48.2	23.6	0.0	H
6	39604.000	59.1	74.0	14.9	44.7	47.6	25.3	0.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	20816.000	41.4	74.0	32.6	37.7	44.4	16.8	0.0	V
2	26162.000	49.1	68.2	19.1	39.1	43.9	19.4	0.0	V
3	30430.000	50.4	68.2	17.8	40.2	44.2	20.8	0.0	V
4	33202.000	51.3	68.2	16.9	40.6	46.3	22.3	0.0	V
5	37206.000	56.0	68.2	12.2	42.8	47.8	23.9	0.0	V
6	38460.000	57.8	68.2	10.4	43.5	47.6	24.9	0.0	V

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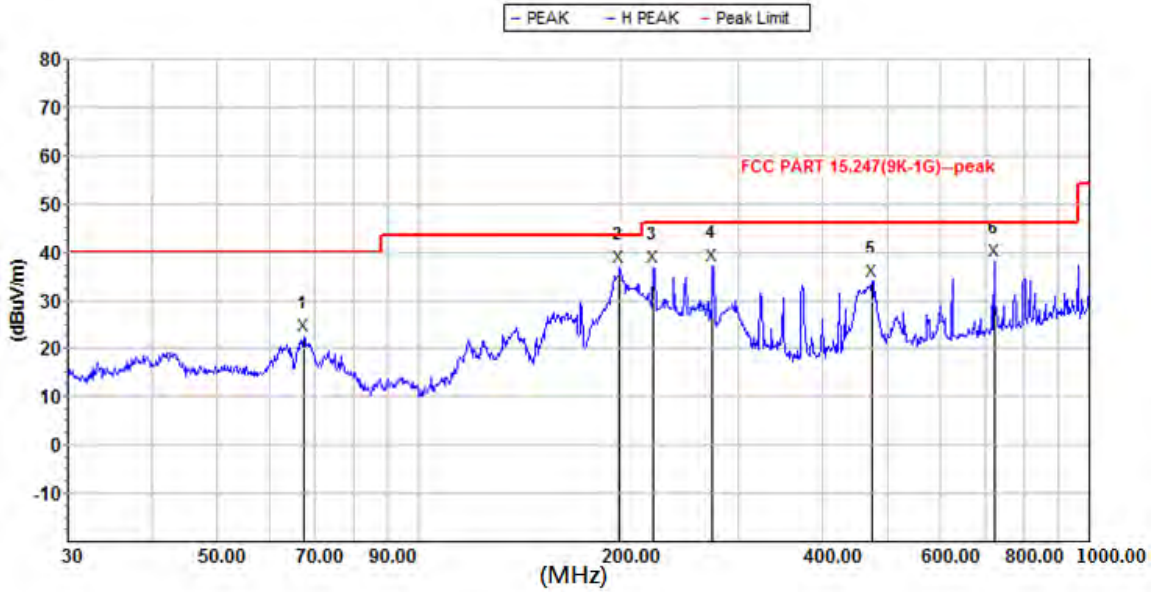
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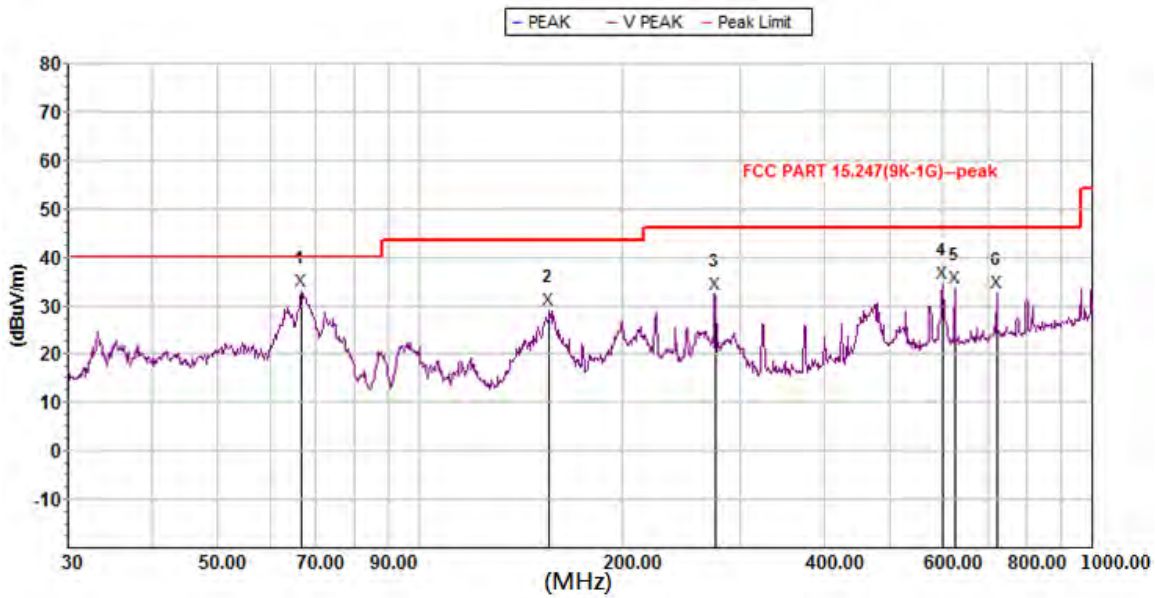
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Spurious Emission Worst case 30-1000MHz Horizontal



Spurious Emission Worst case 30-1000MHz Vertical



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	67.438	22.7	40.0	17.3	17.1	35.3	0.7	0.0	H
2	199.286	37.0	43.5	6.5	15.9	35.1	1.2	0.0	H
3	223.733	37.0	46.0	9.0	16.6	35.1	1.3	0.0	H
4	274.194	37.2	46.0	8.8	18.3	35.0	1.3	0.0	H
5	473.835	34.0	46.0	12.0	22.7	34.8	1.8	0.0	H
6	721.726	38.4	46.0	7.6	26.6	34.4	2.3	0.0	H

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	66.733	33.2	40.0	6.8	17.3	35.3	0.7	0.0	V
2	155.910	29.2	43.5	14.3	19.0	35.1	1.1	0.0	V
3	275.157	32.5	46.0	13.5	18.4	35.0	1.4	0.0	V
4	599.321	34.8	46.0	11.2	25.1	34.6	2.0	0.0	V
5	625.078	33.8	46.0	12.2	25.3	34.5	2.1	0.0	V
6	721.726	32.7	46.0	13.3	26.6	34.4	2.3	0.0	V

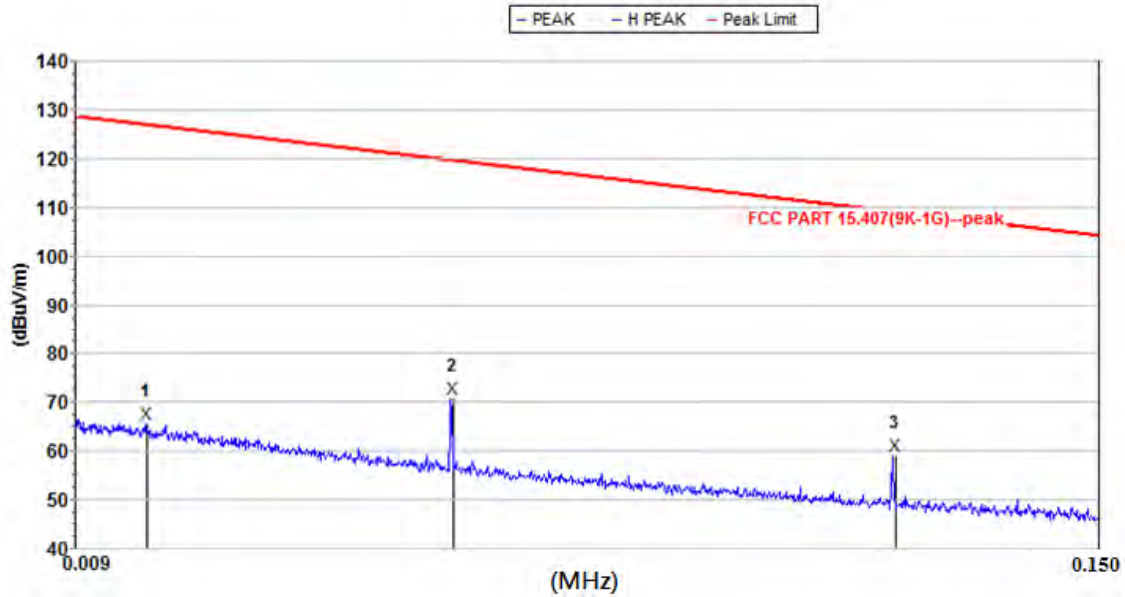
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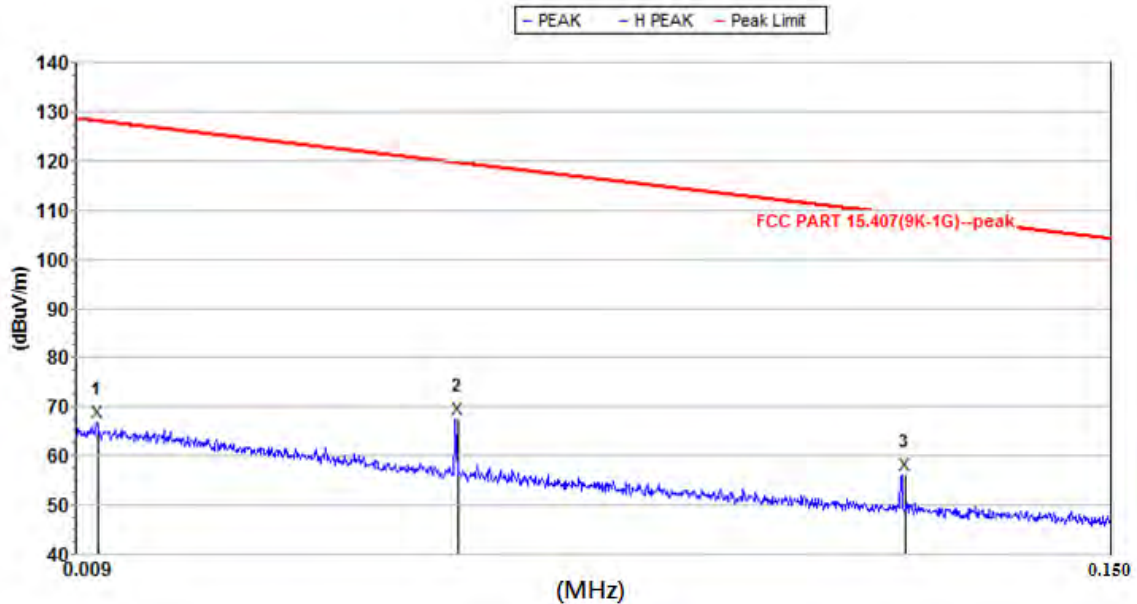
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Spurious Emission Worst case 9-150kHz 0°



Spurious Emission Worst case 9-150kHz 90°



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	0.019	65.7	126.8	61.1	15.1	0.0	0.1	0.0	0°
2	0.061	70.6	119.5	48.9	11.9	0.0	0.1	0.0	0°
3	0.122	59.1	108.9	49.8	11.6	0.0	0.1	0.0	0°

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	0.012	67.0	128.0	61.0	18.0	0.0	0.1	0.0	90°
2	0.061	67.4	119.5	52.1	11.9	0.0	0.1	0.0	90°
3	0.122	56.3	108.9	52.6	11.6	0.0	0.1	0.0	90°

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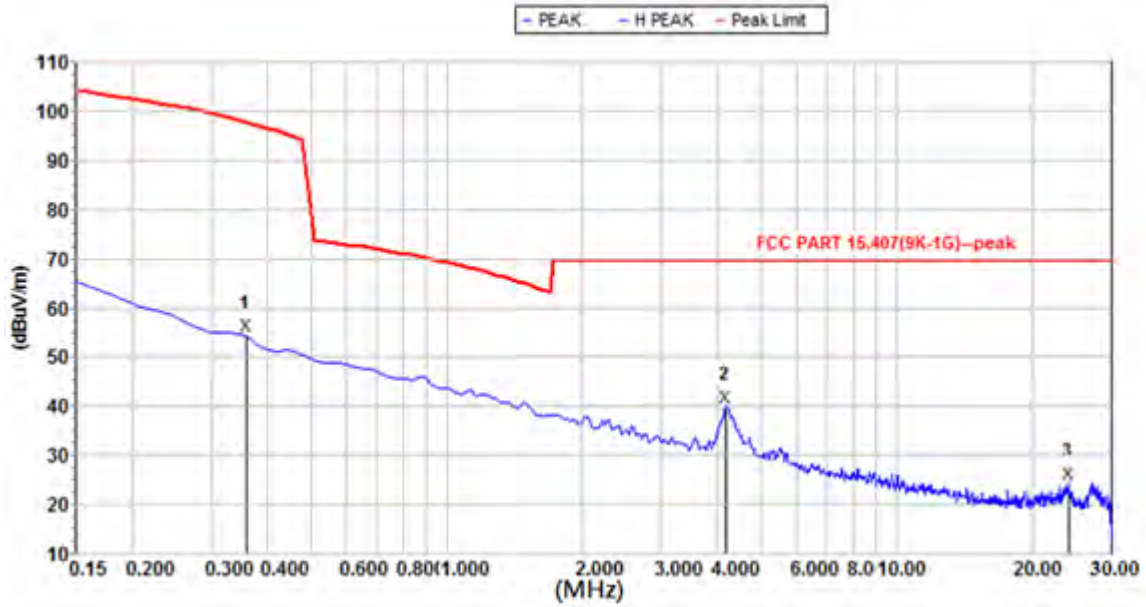
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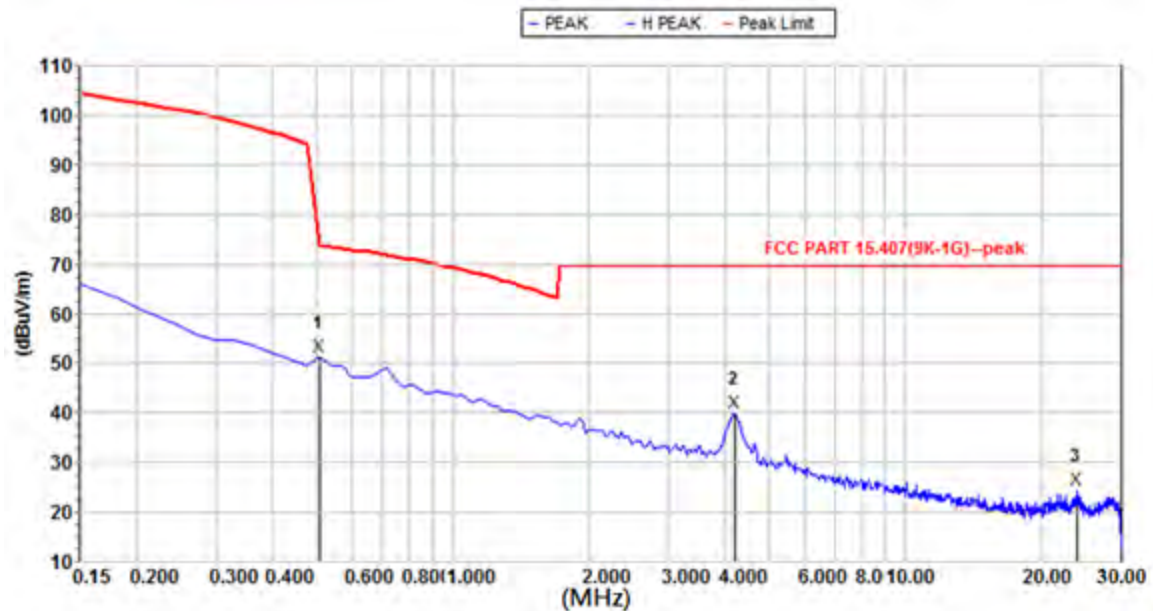
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Spurious Emission Worst case 150kHz-30MHz 0°



Spurious Emission Worst case 150kHz-30MHz 90°



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Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	0.359	54.3	97.8	43.5	11.6	0.0	0.1	0.0	0°
2	4.180	39.8	69.5	29.7	11.7	0.0	0.3	0.0	0°
3	24.090	24.3	69.5	45.2	9.0	0.0	0.4	0.0	0°

Mk.	Freq.(MHz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Ant.F/G.(dB/m)	Amp.G.(dB)	Cbl.L.(dB)	Aux.F.(dB)	Pol.
Peak:									
1	0.508	51.3	73.6	22.3	11.5	0.0	0.2	0.0	90°
2	4.210	40.1	69.5	29.4	11.7	0.0	0.3	0.0	90°
3	23.940	24.7	69.5	44.8	9.1	0.0	0.4	0.0	90°

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7.7. Frequency Stability

Requirements

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.

Test Data

UNII-2a 5320 MHz		Frequency Stability(ppm)			
Temperature (°C)	Voltage (V)	0 minute	2 minutes	5 minutes	10 minutes
50	120	-0.94	-0.94	-0.94	-0.94
40	120	-0.94	-0.94	-0.94	-0.94
30	120	-0.94	-0.94	-0.94	-0.94
20	120	-0.94	-0.94	-0.94	-0.94
10	120	-0.47	0.00	-0.47	-0.94
0	120	0.00	0.47	0.00	-0.94
20	138	-0.94	-0.94	-0.94	-0.94
20	102	-0.47	-0.94	-0.94	-0.94

UNII-2c 5500 MHz		Frequency Stability(ppm)			
Temperature (°C)	Voltage (V)	0 minute	2 minutes	5 minutes	10 minutes
50	120	-0.94	-0.94	-1.41	-0.94
40	120	-0.94	-0.94	-1.41	-0.94
30	120	-0.94	-0.94	-1.11	-0.94
20	120	-0.47	-0.94	-0.94	-0.94
10	120	-0.47	-0.94	-0.47	-0.94
0	120	0.00	-0.47	0.00	-0.94
20	138	-0.94	-0.94	-0.94	-0.94
20	102	-0.94	-0.94	-0.94	-0.94

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7.8. AC Power Line Conducted Emission

Requirements

Frequency of Emission(MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Test Procedures

EUT was placed on the table of nominal size, raised 0.8 m above the conducting ground plane. The rear of tabletop was located 40 cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80 cm from any other grounded conducting surface. EUT was located 80 cm from a Line Impedance Stabilization Network (LISN) / Artificial mains Network (AMN) and excess AC cable was bundled in center.

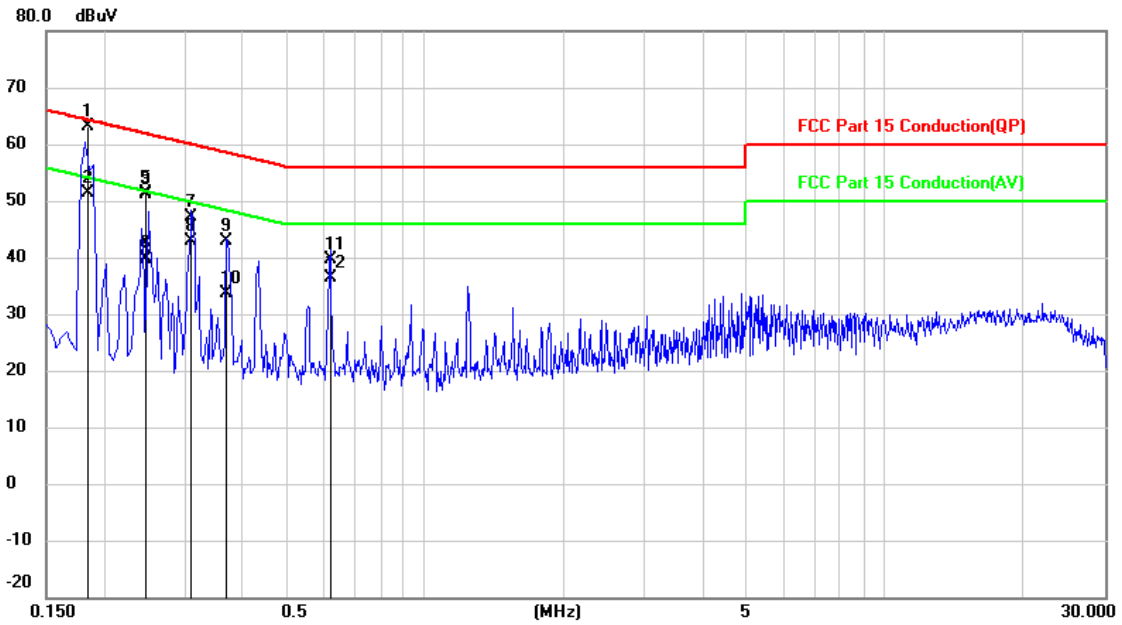
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Line



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1850	43.54	19.52	63.06	64.26	-1.20	QP
2	0.1850	31.78	19.52	51.30	54.26	-2.96	AVG
3	0.2465	31.70	19.53	51.23	61.87	-10.64	QP
4	0.2465	20.20	19.53	39.73	51.87	-12.14	AVG
5	0.2467	31.74	19.53	51.27	61.87	-10.60	QP
6	0.2467	20.23	19.53	39.76	51.87	-12.11	AVG
7	0.3107	27.47	19.55	47.02	59.95	-12.93	QP
8	0.3107	23.44	19.55	42.99	49.95	-6.96	AVG
9	0.3701	23.26	19.57	42.83	58.50	-15.67	QP
10	0.3701	13.99	19.57	33.56	48.50	-14.94	AVG
11	0.6209	20.05	19.55	39.60	56.00	-16.40	QP
12	0.6209	16.73	19.55	36.28	46.00	-9.72	AVG

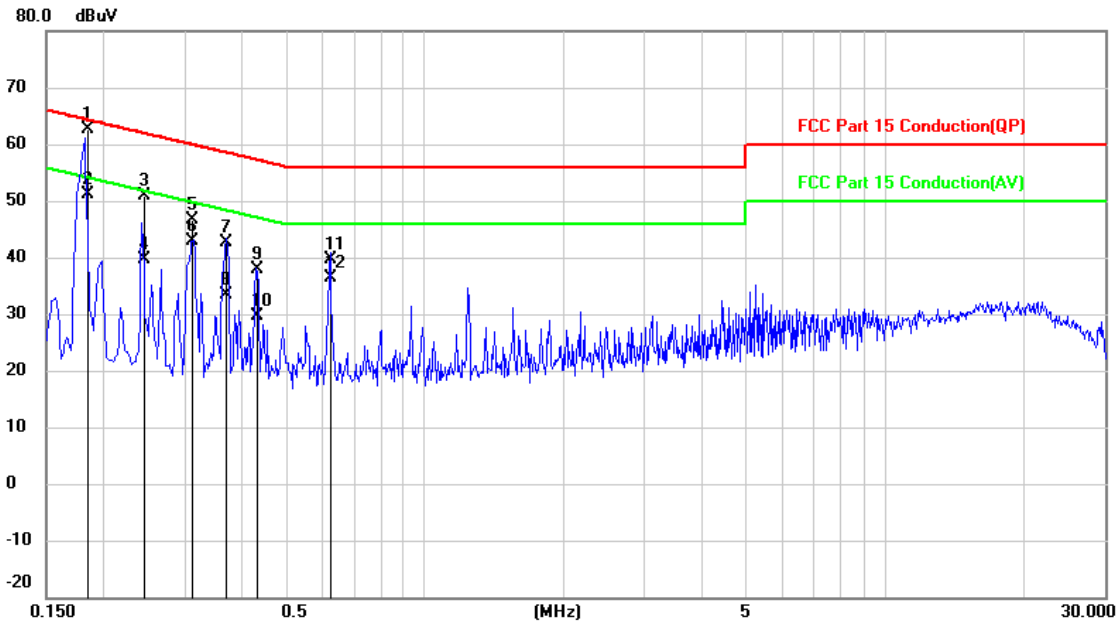
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Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct dB	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1845	43.23	19.51	62.74	64.28	-1.54	QP
2	0.1845	31.52	19.51	51.03	54.28	-3.25	AVG
3	0.2461	31.44	19.52	50.96	61.89	-10.93	QP
4	0.2461	19.99	19.52	39.51	51.89	-12.38	AVG
5	0.3106	27.17	19.54	46.71	59.95	-13.24	QP
6	0.3106	23.38	19.54	42.92	49.95	-7.03	AVG
7	0.3688	23.02	19.55	42.57	58.53	-15.96	QP
8	0.3688	13.84	19.55	33.39	48.53	-15.14	AVG
9	0.4310	18.32	19.54	37.86	57.23	-19.37	QP
10	0.4310	10.01	19.54	29.55	47.23	-17.68	AVG
11	0.6218	20.08	19.54	39.62	56.00	-16.38	QP
12	0.6218	16.84	19.54	36.38	46.00	-9.62	AVG

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