

APPENDIX B – TEST DATA OF RADIATED EMISSION

Radiated Emission Band Edge

In order to find the worst case condition, Pre-tests are needed at the presence of different data rate. Data rate below means worst-case rate of each test item.

Worst-case data rates are shown as following table.

Test Mode	Data Rate
802.11a	6Mbps
802.11n HT20	MCS0(6.5 Mbps)
802.11n HT40	MCS0(13.5 Mbps)
802.11ac VHT20	MCS0(6.5 Mbps)
802.11ac VHT40	MCS0(13.5 Mbps)
802.11ac VHT80	MCS0(29.3 Mbps)

We chose the Worst-modes are shown as following table:

Test Mode	Chain	Note
802.11a	Chain1	---
802.11n HT20	Chain0+Chain1	Cover 802.11ac VHT20
802.11ac VHT40	Chain0+Chain1	Cover 802.11n HT40
802.11ac VHT80	Chain0+Chain1	---

The measurement results are obtained as described below:

Measure Level = Reading Level + Cable loss + Antenna factor Sample calculation: (78.20 dBuV/m) = (31.30 dBμV) + (12.40 dB) + (34.50 dB), the corresponding frequency is 5180MHz.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan.

Note : There were no emissions above 18GHz found within 20dB of the limit. Thus the test result was not reported according to §15.31 (o)

【5150-5250】

802.11a

Carrier Frequency (MHz): 5180

Channel No.: 36

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5180.0	31.30	78.20	N/A	N/A	12.40	34.50
5150.0	-7.20	39.70	-34.30	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5180.0	20.00	66.90	N/A	N/A	12.40	34.50
5150.0	-20.80	26.10	-27.90	54.00	12.40	34.50

Carrier Frequency (MHz): 5240

Channel No.: 48

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5240.0	34.20	81.10	N/A	N/A	12.40	34.50
5250.0	-4.90	42.00	-32.00	74.00	12.40	34.50

Detector: Average

Frequency	Reading Level	Measure Level	Over Limit	Limit (dBuV/m)	Cable Loss	Antenna Factor
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(MHz)	(dBuV)	(dBuV/m)	(dB)		(dB)	(dB)
5240.0	31.80	78.70	N/A	N/A	12.40	34.50
5250.0	0.50	47.40	-6.60	54.00	12.40	34.50

802.11n (HT20)

Carrier Frequency (MHz): 5180

Channel No.: 36

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5180.0	40.00	86.90	N/A	N/A	12.40	34.50
5150.0	6.10	53.00	-21.00	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5180.0	27.50	74.40	N/A	N/A	12.40	34.50
5150.0	-8.10	38.80	-15.20	54.00	12.40	34.50

Carrier Frequency (MHz): 5240

Channel No.: 48

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5240.0	35.80	82.70	N/A	N/A	12.40	34.50
5250.0	-1.90	45.00	-29.00	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5240.0	24.30	71.20	N/A	N/A	12.40	34.50
5250.0	-6.90	40.00	-14.00	54.00	12.40	34.50

802.11n (HT40)

Carrier Frequency (MHz): 5190

Channel No.: 38

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5190.0	37.80	84.70	N/A	N/A	12.40	34.50
5150.0	14.40	61.30	-12.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5190.0	27.70	74.60	N/A	N/A	12.40	34.50
5150.0	-0.60	46.30	-7.70	54.00	12.40	34.50

Carrier Frequency (MHz): 5230

Channel No.: 46

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5230.0	42.50	89.40	N/A	N/A	12.40	34.50
5250.0	21.40	68.30	-5.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5230.0	28.70	75.60	N/A	N/A	12.40	34.50
5250.0	-5.00	41.90	-12.10	54.00	12.40	34.50

802.11ac (VHT80)

Carrier Frequency (MHz): 5210

Channel No.: 42

Test Mode: 802.11ac (VHT80)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5210.0	34.70	81.60	N/A	N/A	12.40	34.50
5150.0	-1.10	45.80	-28.20	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5210.0	21.40	68.30	N/A	N/A	12.40	34.50
5150.0	-15.60	31.30	-22.70	54.00	12.40	34.50

【5250-5350】

802.11a

Carrier Frequency (MHz): 5260

Channel No.: 52

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5260.0	33.30	80.20	N/A	N/A	12.40	34.50
5240.0	-2.40	44.50	-29.50	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5260.0	22.40	69.30	N/A	N/A	12.40	34.50
5240.0	-18.00	28.90	-25.10	54.00	12.40	34.50

Carrier Frequency (MHz): 5320

Channel No.: 64

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5320.0	30.70	77.60	N/A	N/A	12.40	34.50
5340.0	-6.50	40.40	-33.60	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5320.0	18.60	65.50	N/A	N/A	12.40	34.50
5340.0	-19.40	27.50	-26.50	54.00	12.40	34.50

802.11n (HT20)

Carrier Frequency (MHz): 5260

Channel No.: 52

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5260.0	28.40	75.30	N/A	N/A	12.40	34.50
5240.0	-5.40	41.50	-32.50	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5260.0	22.00	68.90	N/A	N/A	12.40	34.50
5240.0	-17.10	29.80	-24.20	54.00	12.40	34.50

Carrier Frequency (MHz): 5320

Channel No.: 64

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5320.0	30.70	77.60	N/A	N/A	12.40	34.50
5340.0	-6.70	40.20	-33.80	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5320.0	21.20	68.10	N/A	N/A	12.40	34.50
5340.0	-18.30	28.60	-25.40	54.00	12.40	34.50

802.11n (HT40)

Carrier Frequency (MHz): 5270

Channel No.: 54

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5270.0	40.90	87.80	N/A	N/A	12.40	34.50
5230.0	-6.30	40.60	-33.40	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5270.0	27.60	74.50	N/A	N/A	12.40	34.50
5230.0	-19.00	27.90	-26.10	54.00	12.40	34.50

Carrier Frequency (MHz): 5310

Channel No.: 60

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5310.0	45.60	92.50	N/A	N/A	12.40	34.50
5350.0	-7.50	39.40	-34.60	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5310.0	35.80	82.70	N/A	N/A	12.40	34.50
5350.0	-20.40	26.50	-27.50	54.00	12.40	34.50

802.11ac (VHT80)

Carrier Frequency (MHz): 5290

Channel No.: 58

Test Mode: 802.11ac (VHT80)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5290.0	34.20	81.10	N/A	N/A	12.40	34.50
5210.0	12.40	59.30	-14.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5290.0	20.10	67.00	N/A	N/A	12.40	34.50
5210.0	-2.50	44.40	-9.60	54.00	12.40	34.50

【5470-5725】

802.11a

Carrier Frequency (MHz): 5500

Channel No.: 100

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5500.0	33.30	80.20	N/A	N/A	12.40	34.50
5480.0	-4.20	42.70	-31.30	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5500.0	21.80	68.70	N/A	N/A	12.40	34.50
5480.0	-18.60	28.30	-25.70	54.00	12.40	34.50

Carrier Frequency (MHz): 5700

Channel No.: 140

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5700.0	37.28	84.18	N/A	N/A	12.40	34.50
5720.0	1.10	48.00	-26.00	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5700.0	23.40	70.30	N/A	N/A	12.40	34.50
5720.0	-14.20	32.70	-21.30	54.00	12.40	34.50

802.11n (HT20)

Carrier Frequency (MHz): 5500

Channel No.: 100

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5500.0	34.40	81.30	N/A	N/A	12.40	34.50
5480.0	0.70	47.60	-26.40	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5500.0	18.40	65.30	N/A	N/A	12.40	34.50
5480.0	-14.90	32.00	-22.00	54.00	12.40	34.50

Carrier Frequency (MHz): 5700

Channel No.: 140

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5700.0	34.00	80.90	N/A	N/A	12.40	34.50
5720.0	-0.50	46.40	-27.60	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5700.0	19.40	66.30	N/A	N/A	12.40	34.50
5720.0	-13.70	33.20	-20.80	54.00	12.40	34.50

802.11n (HT40)

Carrier Frequency (MHz): 5510

Channel No.: 102

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5510.0	44.90	91.80	N/A	N/A	12.40	34.50
5470.0	18.30	65.20	-8.80	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5510.0	26.90	73.80	N/A	N/A	12.40	34.50
5470.0	3.30	50.20	-3.80	54.00	12.40	34.50

Carrier Frequency (MHz): 5670

Channel No.: 134

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5670.0	43.00	89.90	N/A	N/A	12.40	34.50
5710.0	17.00	63.90	-10.10	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5670.0	31.80	78.70	N/A	N/A	12.40	34.50
5710.0	0.80	47.70	-6.30	54.00	12.40	34.50

802.11ac (VHT80)

Carrier Frequency (MHz): 5530

Channel No.: 106

Test Mode: 802.11ac (VHT80)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5530.0	33.20	80.10	N/A	N/A	12.40	34.50
5450.0	9.70	56.60	-17.40	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5530.0	19.70	66.60	N/A	N/A	12.40	34.50
5450.0	-4.90	42.00	-12.00	54.00	12.40	34.50

Carrier Frequency (MHz): 5690

Channel No.: 138

Test Mode: 802.11ac (VHT80)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5690.0	37.60	84.50	N/A	N/A	12.40	34.50
5770.0	12.50	59.40	-14.60	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5690.0	23.20	70.10	N/A	N/A	12.40	34.50
5770.0	-2.90	44.00	-10.00	54.00	12.40	34.50

【5725-5850】

802.11a

Carrier Frequency (MHz): 5745

Channel No.: 149

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5745.0	29.20	76.10	N/A	N/A	12.40	34.50
5725.0	1.90	48.80	-25.20	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5745.0	17.30	64.20	N/A	N/A	12.40	34.50
5725.0	-11.80	35.10	-18.90	54.00	12.40	34.50

Carrier Frequency (MHz): 5825

Channel No.: 165

Test Mode: 802.11a

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5825.0	27.30	74.20	N/A	N/A	12.40	34.50
5845.0	-1.60	45.30	-28.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5825.0	15.50	62.40	N/A	N/A	12.40	34.50
5845.0	-14.80	32.10	-21.90	54.00	12.40	34.50

802.11n (HT20)

Carrier Frequency (MHz): 5745

Channel No.: 149

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5745.0	24.90	71.80	N/A	N/A	12.40	34.50
5725.0	-1.30	45.60	-28.40	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5745.0	21.30	68.20	N/A	N/A	12.40	34.50
5725.0	-15.30	31.60	-22.40	54.00	12.40	34.50

Carrier Frequency (MHz): 5825

Channel No.: 165

Test Mode: 802.11n (HT20)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5825.0	25.20	72.10	N/A	N/A	12.40	34.50
5845.0	-0.60	46.30	-27.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5825.0	21.60	68.50	N/A	N/A	12.40	34.50
5845.0	-14.40	32.50	-21.50	54.00	12.40	34.50

802.11n (HT40)

Carrier Frequency (MHz): 5755

Channel No.: 151

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5755.0	34.30	81.20	N/A	N/A	12.40	34.50
5715.0	11.80	58.70	-15.30	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5755.0	21.80	68.70	N/A	N/A	12.40	34.50
5715.0	-2.30	44.60	-9.40	54.00	12.40	34.50

Carrier Frequency (MHz): 5795

Channel No.: 159

Test Mode: 802.11n (HT40)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5795.0	39.70	86.60	N/A	N/A	12.40	34.50
5835.0	12.60	59.50	-14.50	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5795.0	17.00	63.90	N/A	N/A	12.40	34.50
5835.0	-2.70	44.20	-9.80	54.00	12.40	34.50

802.11ac (VHT80)

Carrier Frequency (MHz): 5775

Channel No.: 155

Test Mode: 802.11ac (VHT80)

Detector: Peak

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5775.0	30.60	77.50	N/A	N/A	12.40	34.50
5695.0	10.40	57.30	-16.70	74.00	12.40	34.50

Detector: Average

Frequency (MHz)	Reading Level (dBuV)	Measure Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)
5775.0	17.20	64.10	N/A	N/A	12.40	34.50
5695.0	-4.60	42.30	-11.70	54.00	12.40	34.50

Sample Calculations

Determining Spurious Emissions Levels

A “reference path loss” is established and the A_{Rpl} is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

Result= $P_{mea} + A_{Rpl}$

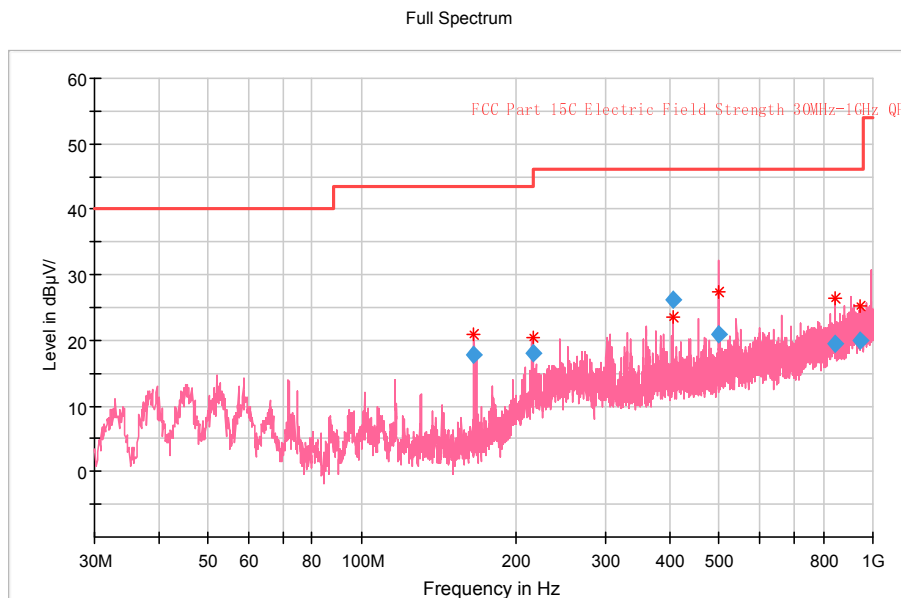
Sample calculation: $(20.99 \text{ dB}\mu\text{V/m}) = (39.79 \text{ dB}\mu\text{V}) + (-18.8 \text{ dB/m})$, the corresponding frequency is 39.021MHz.

【5150~5250】

802.11a

Spurious Radiated Emissions from 30MHz to 1GHz:

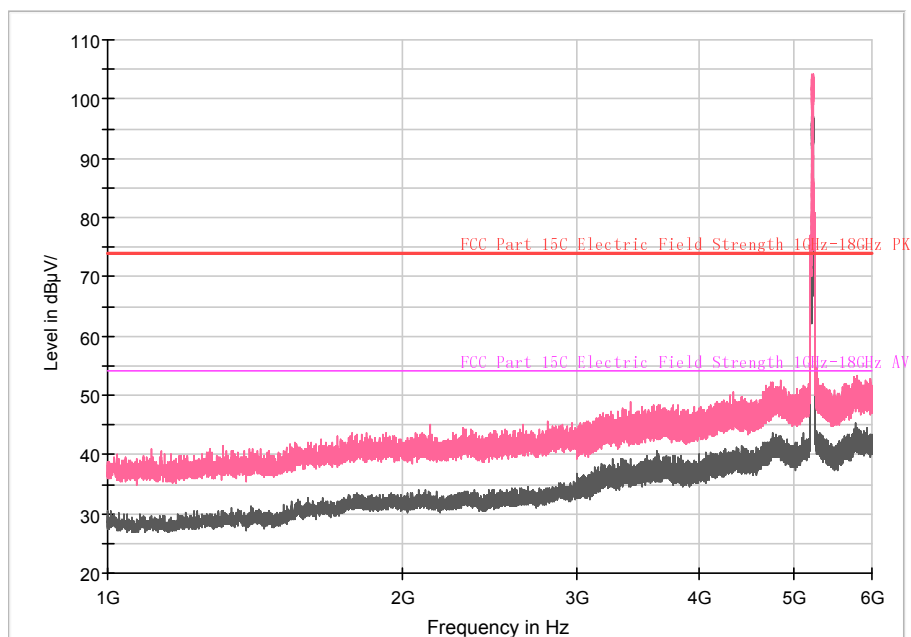
CH Middle (No.44)

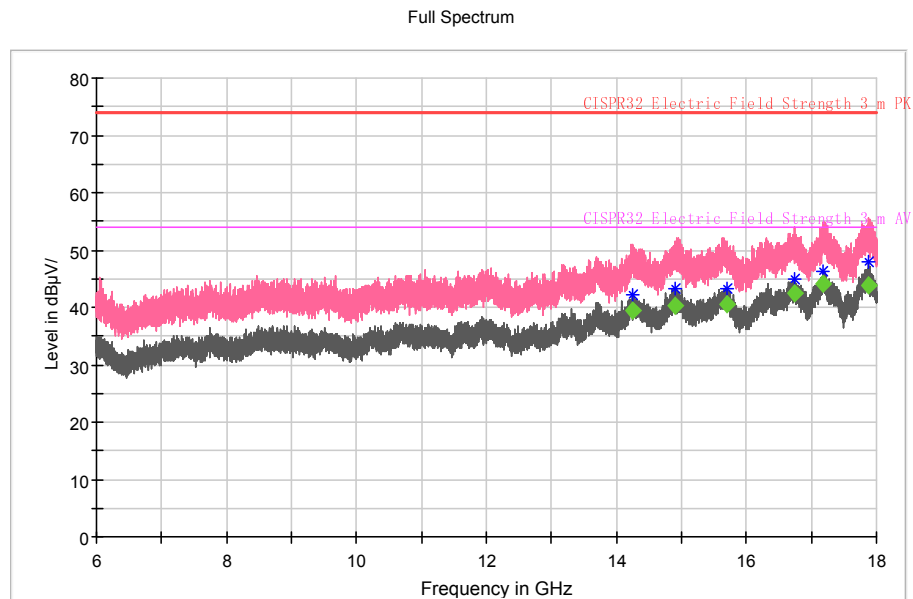


Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
165.994	40.53	17.73	43.50	25.77	-22.80	Vertical
215.949	38.27	18.07	43.50	25.43	-20.20	Vertical
408.009	39.52	26.12	46.00	19.88	-13.40	Vertical
498.607	32.10	21.00	46.00	25.00	-11.10	Vertical
844.703	23.73	19.43	46.00	26.57	-4.30	Vertical
946.262	22.43	20.03	46.00	25.97	-2.40	Vertical

Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.44)

Full Spectrum

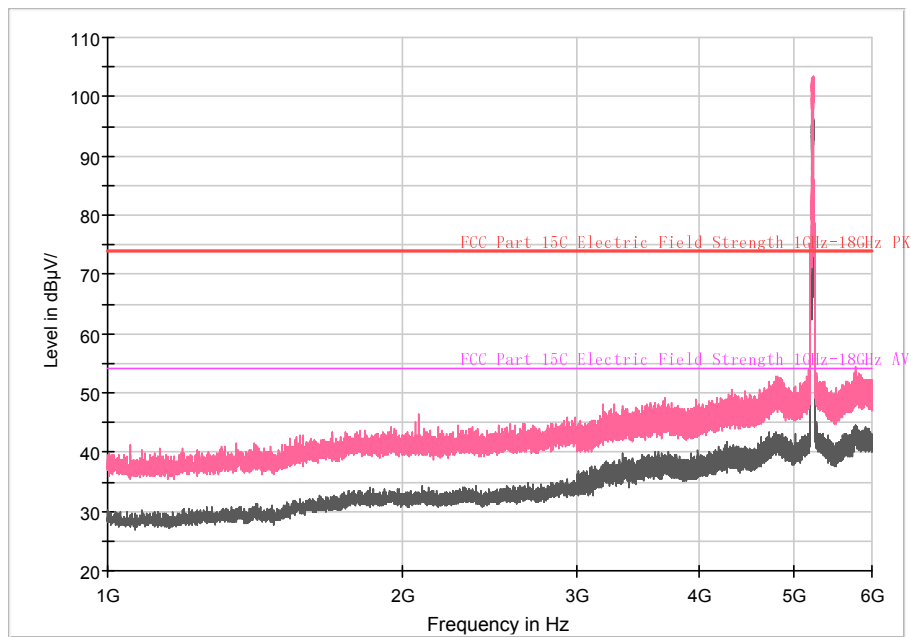




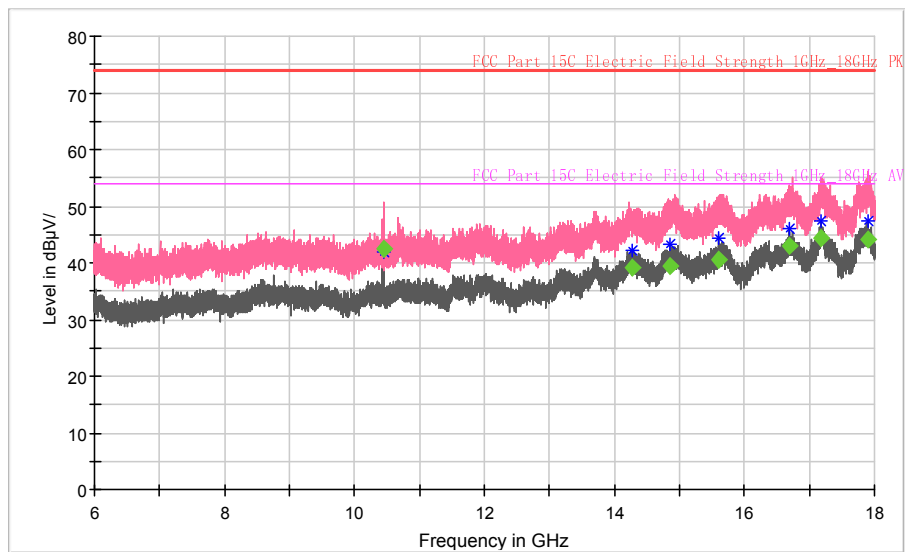
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
14242.400	---	53.76	---	39.56	54.00	14.44	-14.20	Vertical
14903.600	---	54.27	---	40.37	54.00	13.63	-13.90	Vertical
15689.600	---	54.79	---	40.49	54.00	13.51	-14.30	Vertical
16734.800	---	55.74	---	42.54	54.00	11.46	-13.20	Vertical
17177.200	---	56.35	---	44.05	54.00	9.95	-12.30	Vertical
17876.400	---	54.47	---	43.77	54.00	10.23	-10.70	Vertical

802.11n (HT20)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.44)

Full Spectrum



Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
10440.400	---	61.48	---	42.38	54.00	11.62	-19.10	Vertical
14281.600	---	53.42	---	39.22	54.00	14.78	-14.20	Vertical
14850.400	---	53.29	---	39.39	54.00	14.61	-13.90	Vertical
15602.000	---	54.88	---	40.68	54.00	13.32	-14.20	Vertical
16697.200	---	56.19	---	42.89	54.00	11.11	-13.30	Vertical
17187.200	---	56.62	---	44.32	54.00	9.68	-12.30	Vertical

802.11n (HT40)

The State Radio_monitoring_centerTesting Center (SRTC)

Tel: 86-10-57996183

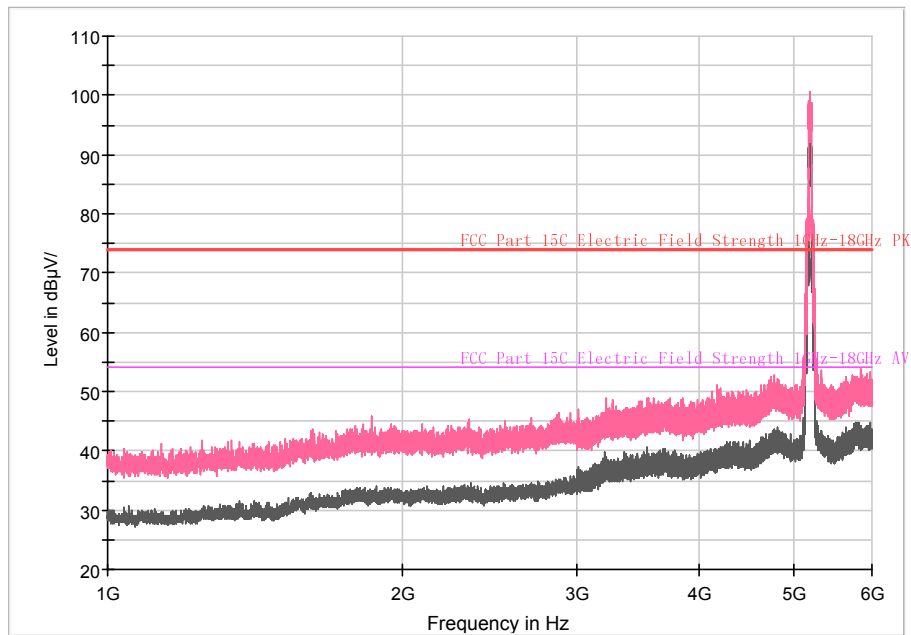
Fax:86-10-57996388

Page number:154 of 178

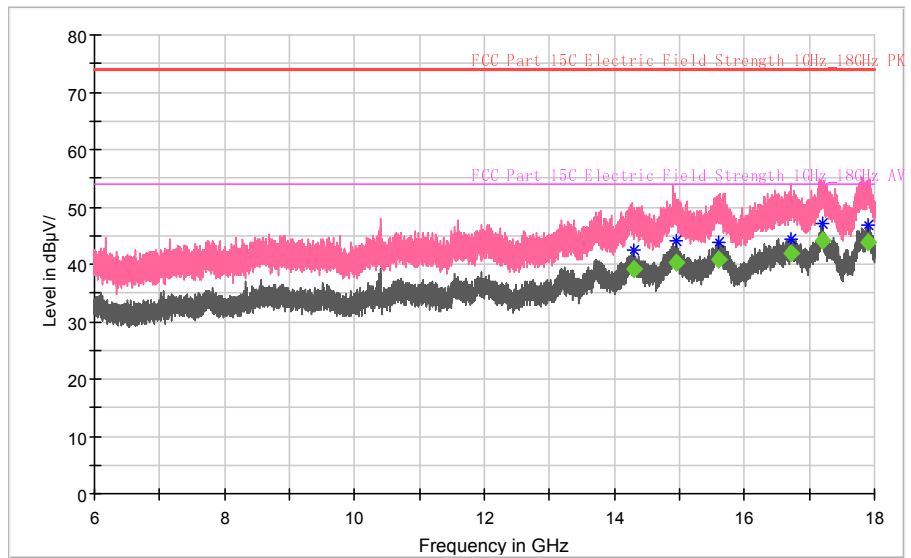
V3.0.0

Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.38)

Full Spectrum

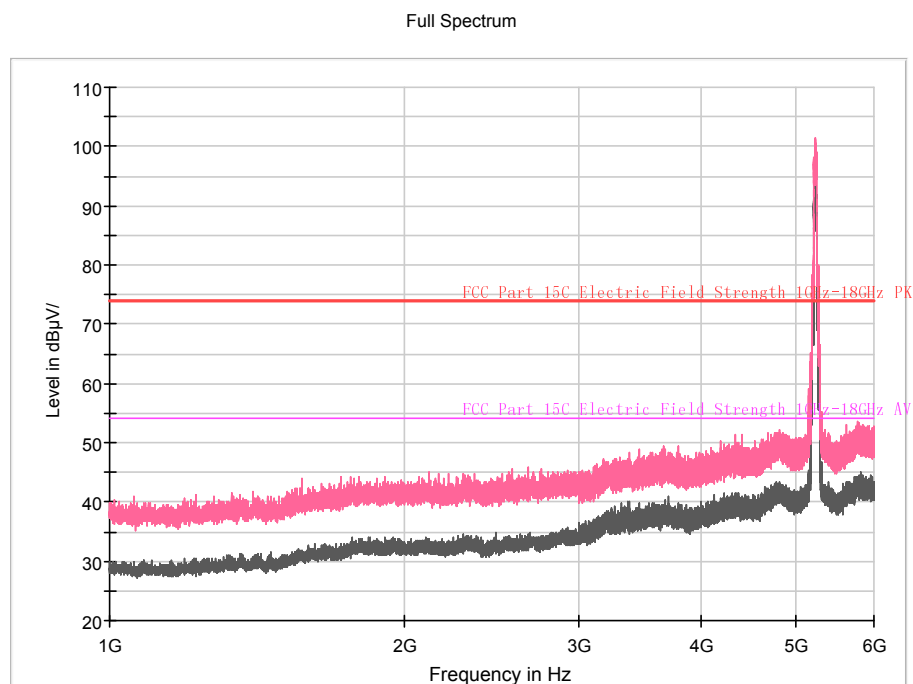


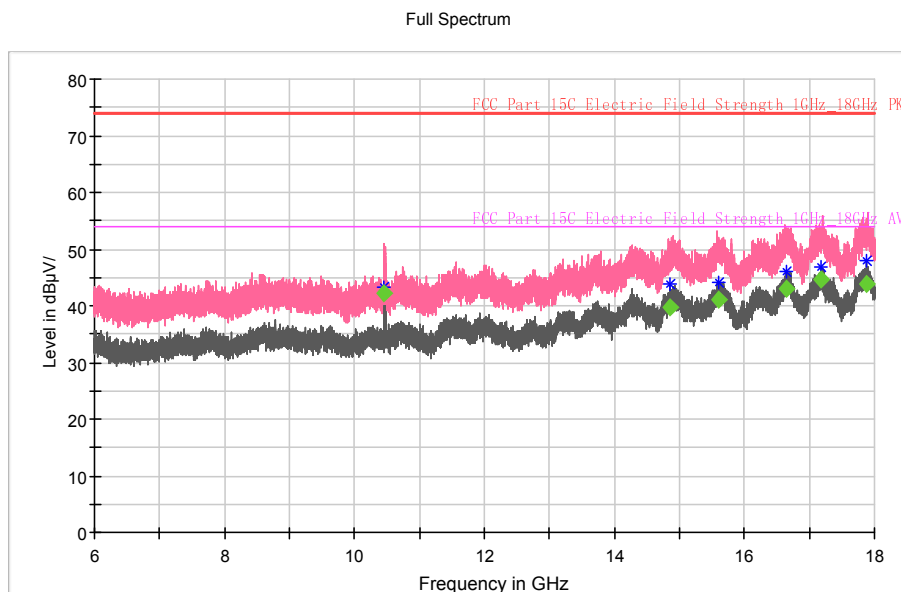
Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
14286.400	---	53.33	---	39.13	54.00	14.87	-14.20	Vertical
14962.800	---	54.04	---	40.14	54.00	13.86	-13.90	Vertical
15597.200	---	55.01	---	40.81	54.00	13.19	-14.20	Vertical
16708.000	---	55.22	---	41.92	54.00	12.08	-13.30	Vertical
17212.000	---	56.33	---	44.03	54.00	9.97	-12.30	Vertical
17902.400	---	54.37	---	43.87	54.00	10.13	-10.50	Vertical

802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.46)

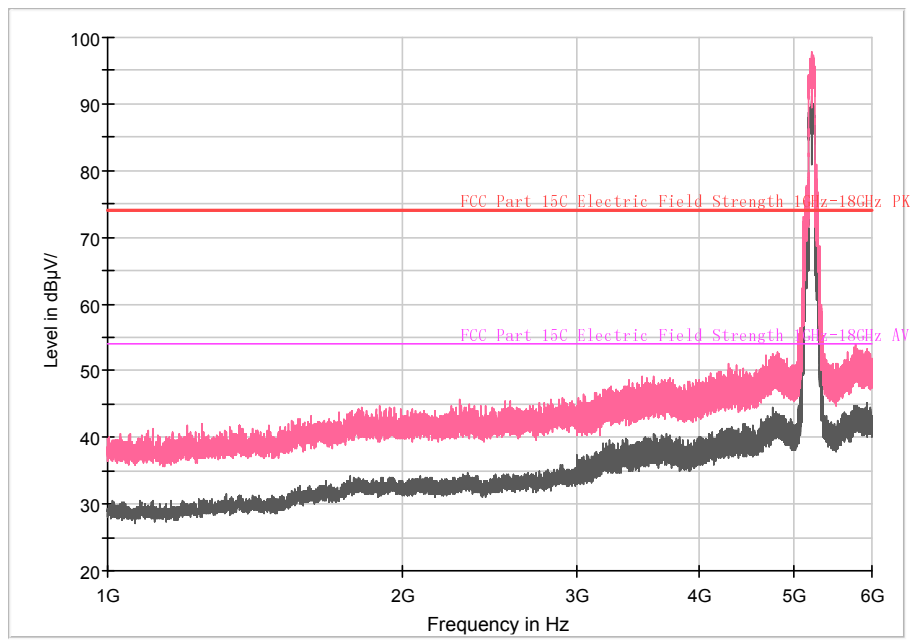




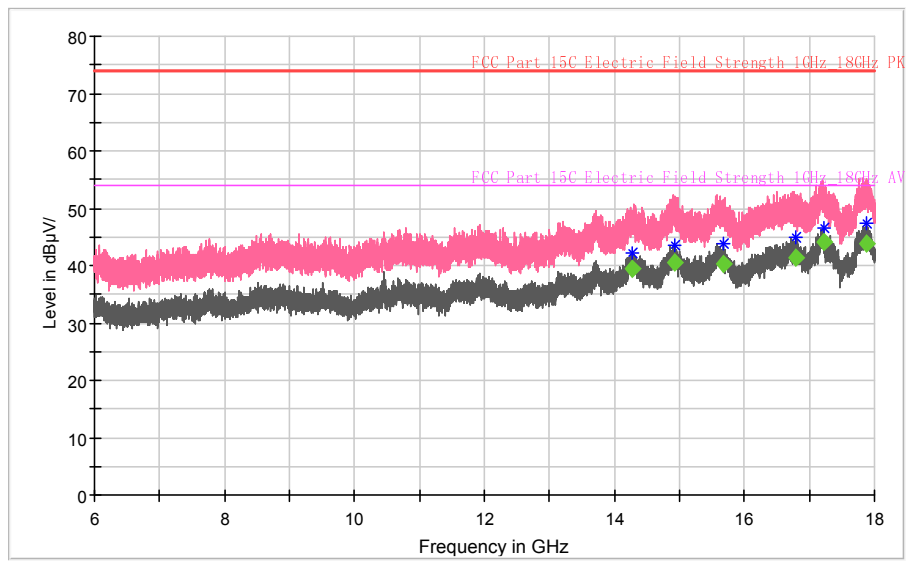
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10460.400	---	61.33	---	42.23	54.00	11.77	-19.10	Vertical
14864.800	---	53.66	---	39.76	54.00	14.24	-13.90	Vertical
15596.000	---	55.29	---	41.09	54.00	12.91	-14.20	Vertical
16634.000	---	56.63	---	43.03	54.00	10.97	-13.60	Vertical
17182.000	---	56.86	---	44.56	54.00	9.44	-12.30	Vertical
17888.800	---	54.51	---	43.91	54.00	10.09	-10.60	Vertical

802.11ac (VHT80)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.42)

Full Spectrum



Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
14271.600	---	53.55	---	39.35	54.00	14.65	-14.20	Vertical
14930.000	---	54.45	---	40.55	54.00	13.45	-13.90	Vertical
15676.400	---	54.52	---	40.22	54.00	13.78	-14.30	Vertical
16778.400	---	54.53	---	41.43	54.00	12.57	-13.10	Vertical
17214.400	---	56.41	---	44.11	54.00	9.89	-12.30	Vertical
17872.800	---	54.55	---	43.75	54.00	10.25	-10.80	Vertical

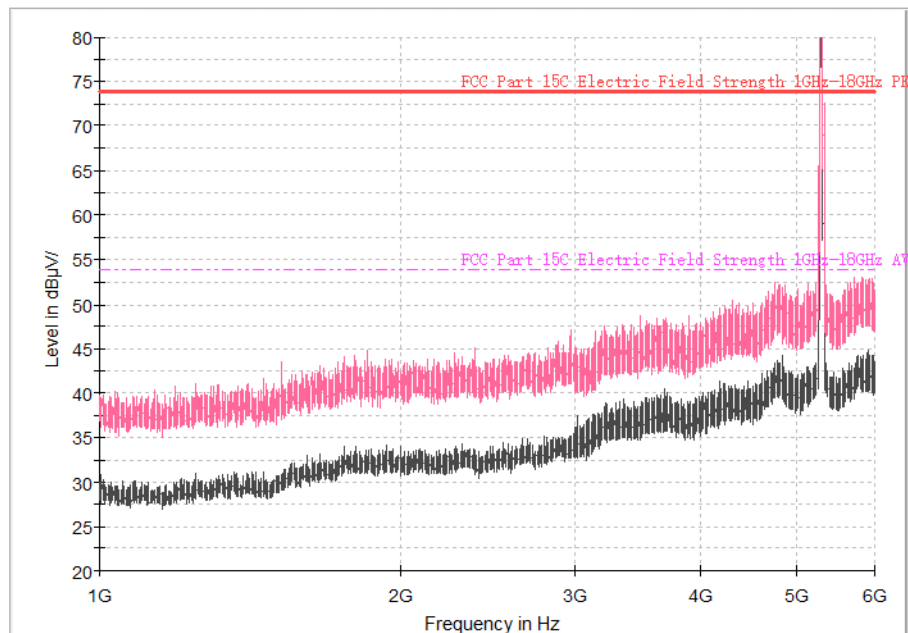
【5250~5350】

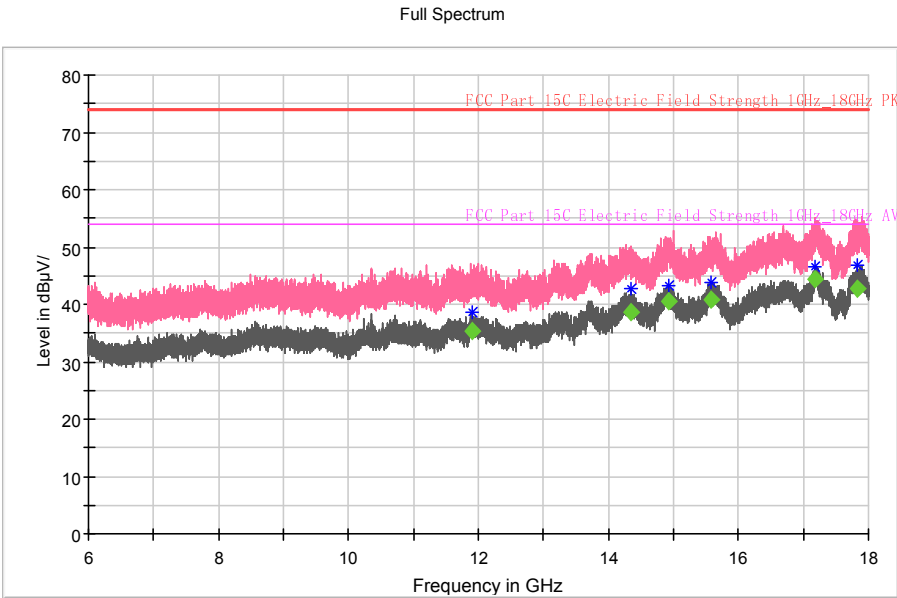
802.11a

Spurious Radiated Emissions from 1GHz to 18GHz:

CH Middle (No.60)

Full Spectrum

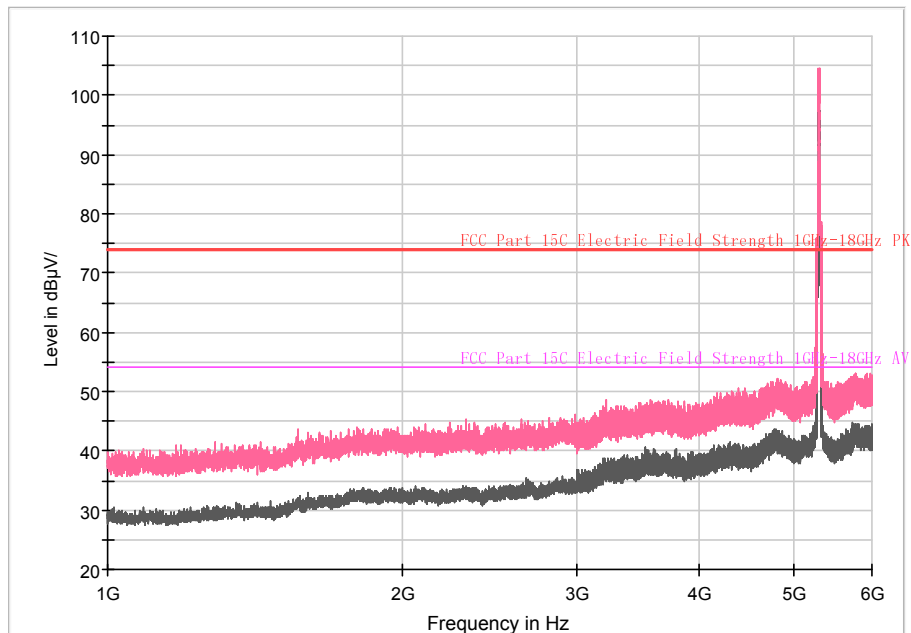




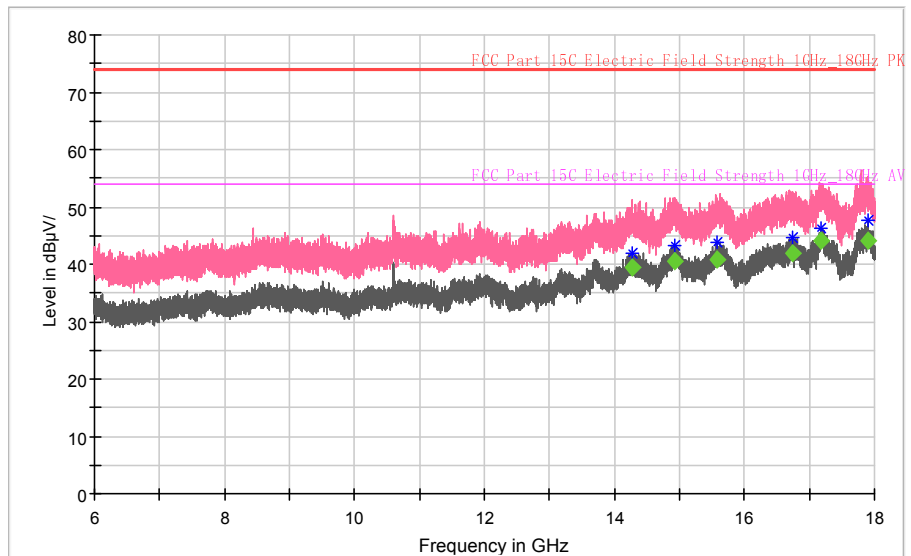
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11914.000	---	52.11	---	35.21	54.00	18.79	-16.90	Vertical
14340.400	---	52.96	---	38.76	54.00	15.24	-14.20	Vertical
14932.000	---	54.47	---	40.57	54.00	13.43	-13.90	Vertical
15574.800	---	54.90	---	40.70	54.00	13.30	-14.20	Vertical
17182.800	---	56.55	---	44.25	54.00	9.75	-12.30	Vertical
17836.000	---	53.73	---	42.73	54.00	11.27	-11.00	Vertical

802.11n (HT20)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.60)

Full Spectrum

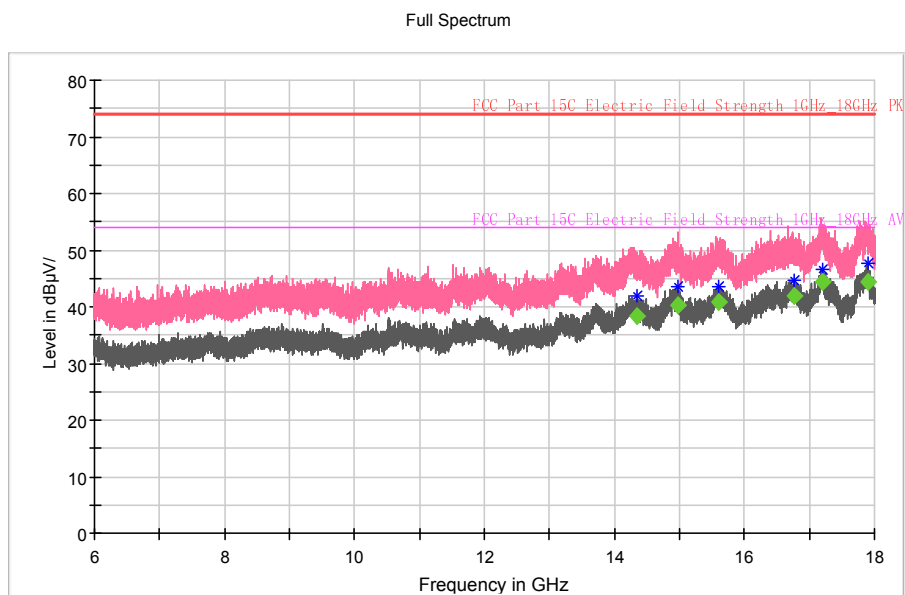
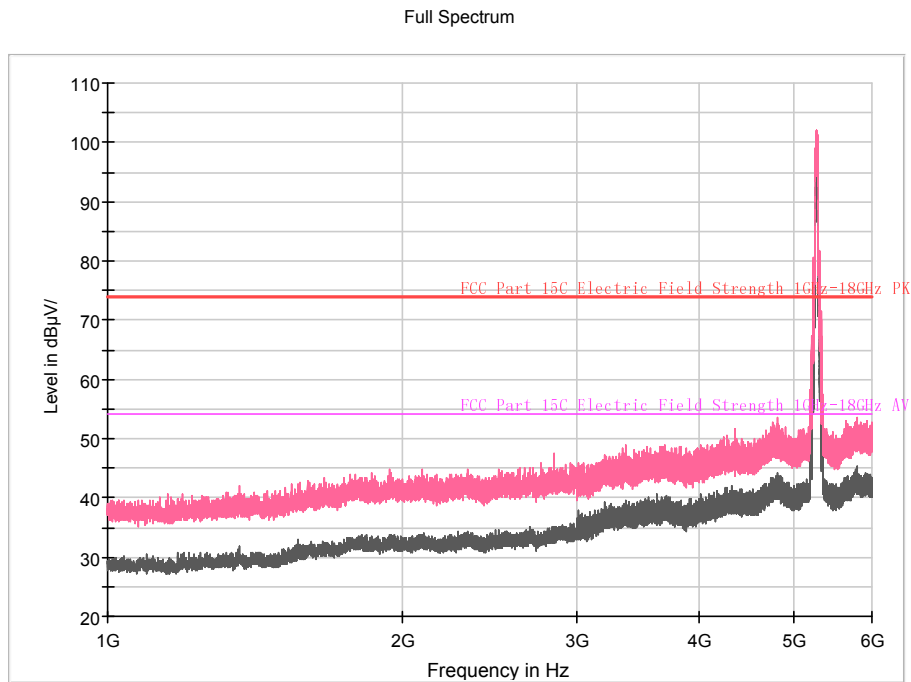


Full Spectrum



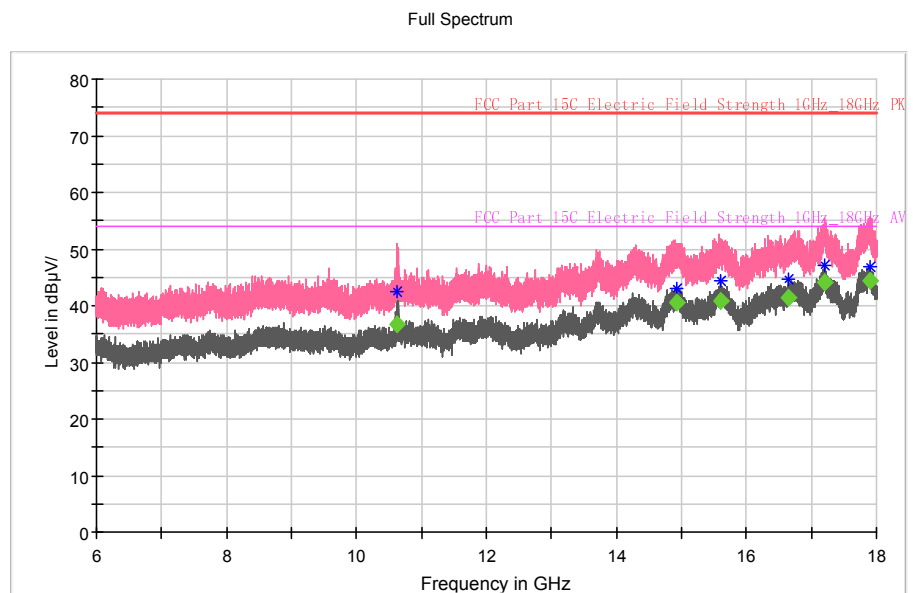
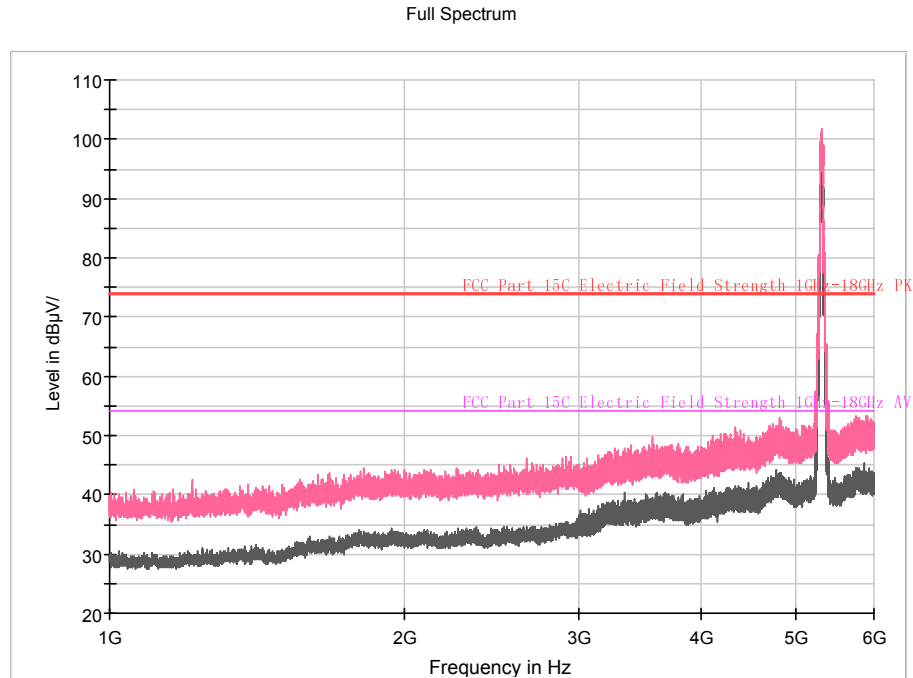
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
14267.600	---	53.69	---	39.49	54.00	14.51	-14.20	Vertical
14939.200	---	54.50	---	40.60	54.00	13.40	-13.90	Vertical
15590.800	---	55.04	---	40.84	54.00	13.16	-14.20	Vertical
16748.400	---	55.04	---	41.84	54.00	12.16	-13.20	Vertical
17187.600	---	56.49	---	44.19	54.00	9.81	-12.30	Vertical
17897.600	---	54.76	---	44.16	54.00	9.84	-10.60	Vertical

802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.54)



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
14354.400	---	52.59	---	38.49	54.00	15.51	-14.10	Vertical
14966.000	---	54.08	---	40.18	54.00	13.82	-13.90	Vertical
15596.400	---	54.90	---	40.70	54.00	13.30	-14.20	Vertical
16757.600	---	55.12	---	41.92	54.00	12.08	-13.20	Vertical
17189.600	---	56.69	---	44.39	54.00	9.61	-12.30	Vertical
17892.400	---	54.90	---	44.30	54.00	9.70	-10.60	Vertical

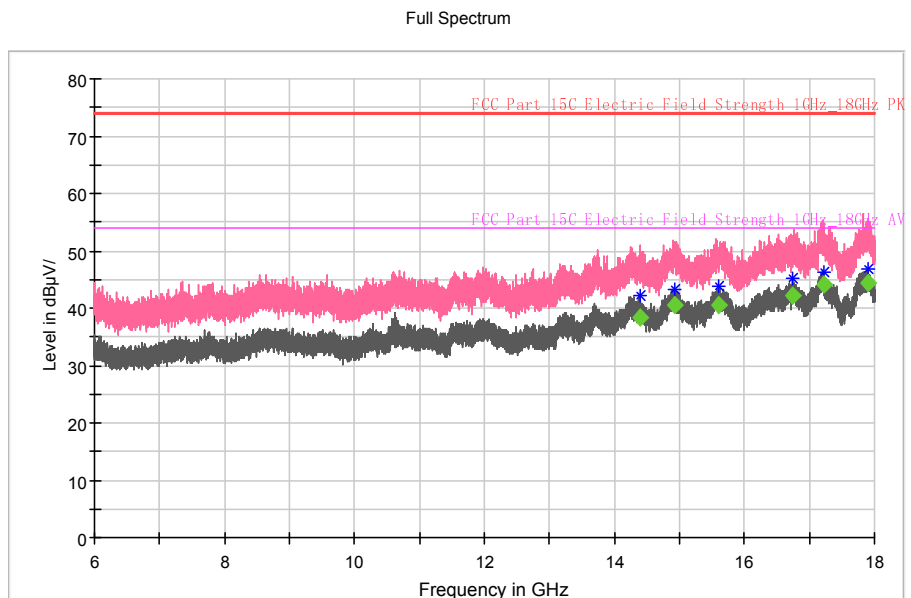
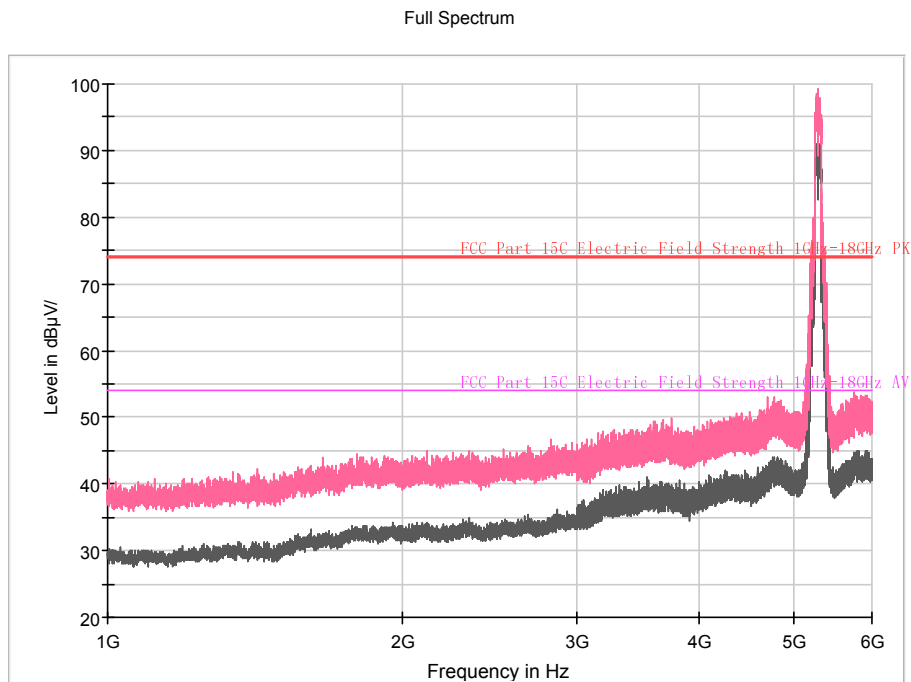
802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.62)



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
10626.000	---	55.62	---	36.72	54.00	17.28	-18.90	Vertical
14937.200	---	54.50	---	40.60	54.00	13.40	-13.90	Vertical
15597.600	---	54.93	---	40.73	54.00	13.27	-14.20	Vertical

16641.600	---	54.89	---	41.29	54.00	12.71	-13.60	Vertical
17200.000	---	56.53	---	44.23	54.00	9.77	-12.30	Vertical
17894.000	---	54.97	---	44.37	54.00	9.63	-10.60	Vertical

802.11ac (VHT80)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.58)



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
14406.800	---	52.51	---	38.41	54.00	15.59	-14.10	Vertical

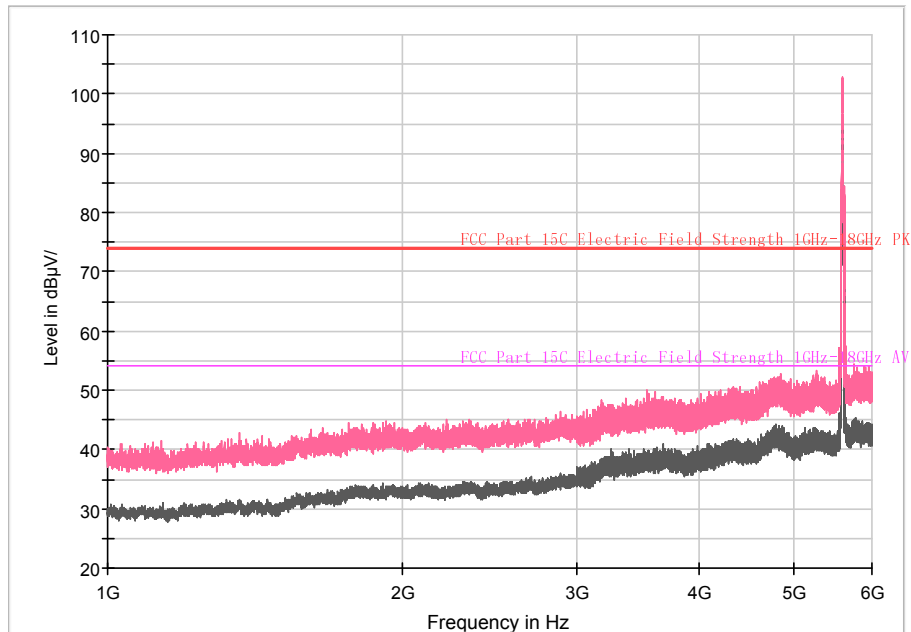
14932.400	---	54.49	---	40.59	54.00	13.41	-13.90	Vertical
15604.800	---	54.77	---	40.57	54.00	13.43	-14.20	Vertical
16740.400	---	55.35	---	42.15	54.00	11.85	-13.20	Vertical
17220.400	---	56.46	---	44.16	54.00	9.84	-12.30	Vertical
17893.200	---	54.97	---	44.37	54.00	9.63	-10.60	Vertical

【5470~5725】

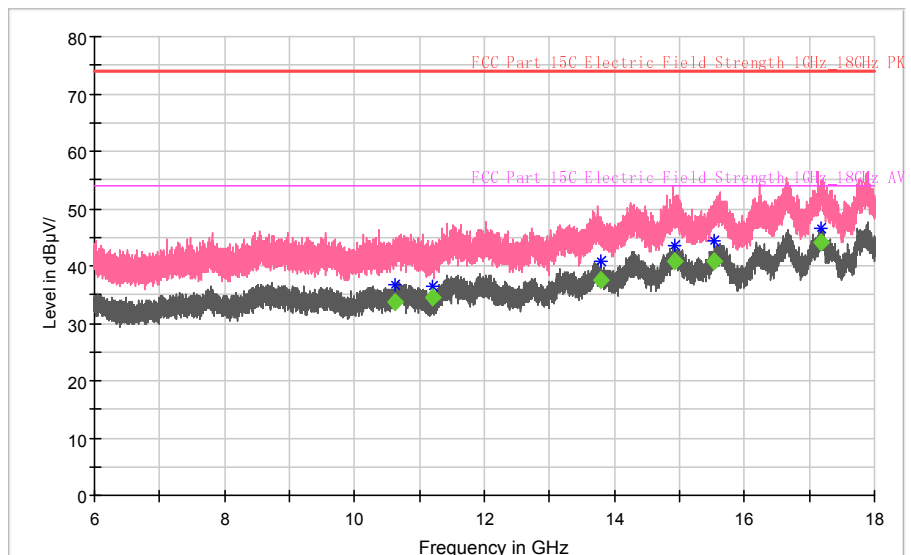
802.11a

Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.120)

Full Spectrum



Full Spectrum



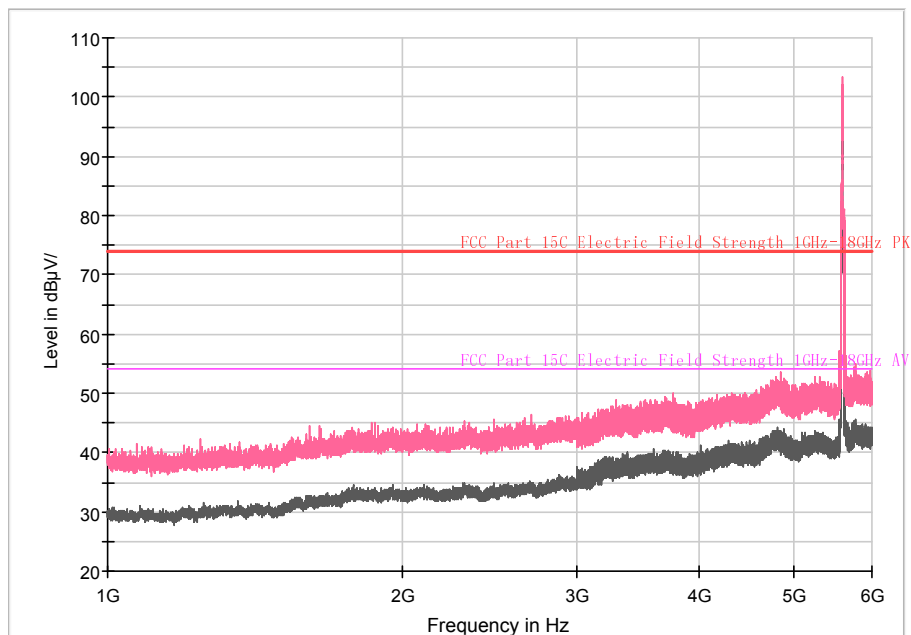
Frequency	Reading MaxPeak	Reading Average	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
-----------	-----------------	-----------------	------------------	------------------	----------------	-------------	-----------------------	----------

(MHz)	(dBuV)	(dBuV)						
10610.800	---	52.62	---	33.72	54.00	20.28	-18.90	Vertical
11191.600	---	52.20	---	34.60	54.00	19.40	-17.60	Vertical
13788.800	---	52.33	---	37.63	54.00	16.37	-14.70	Vertical
14932.400	---	54.61	---	40.71	54.00	13.29	-13.90	Vertical
15544.000	---	55.10	---	40.90	54.00	13.10	-14.20	Vertical
17172.800	---	56.32	---	44.02	54.00	9.98	-12.30	Vertical

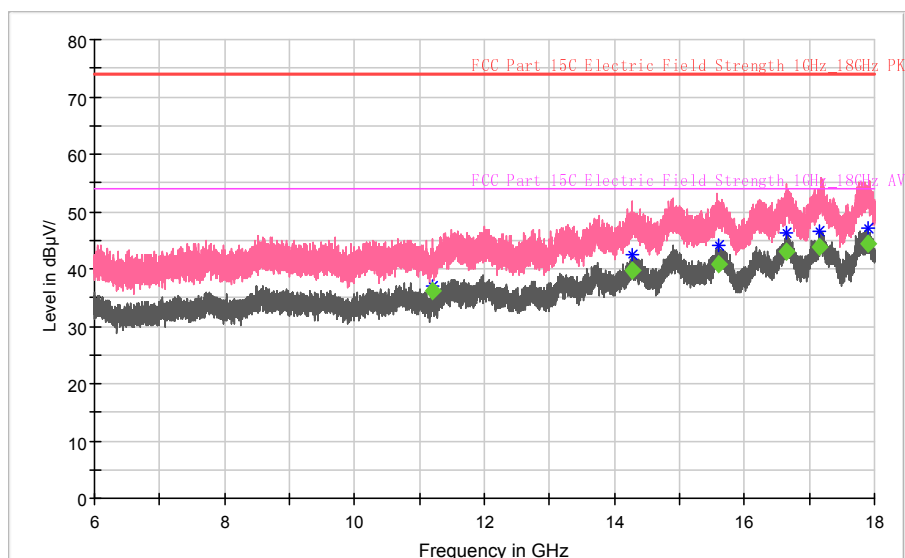
802.11n (HT20)

Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.120)

Full Spectrum



Full Spectrum

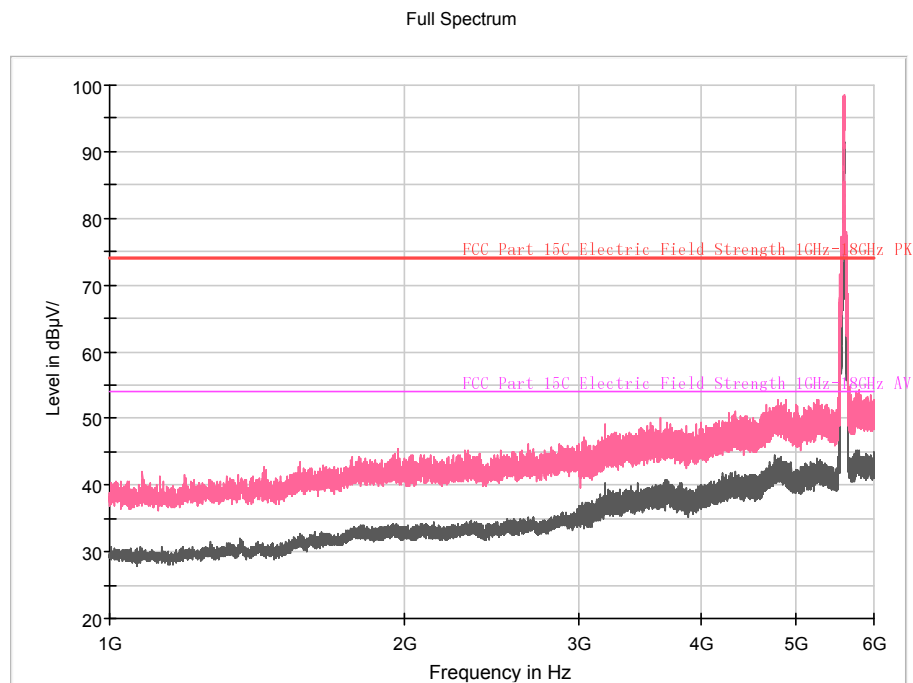


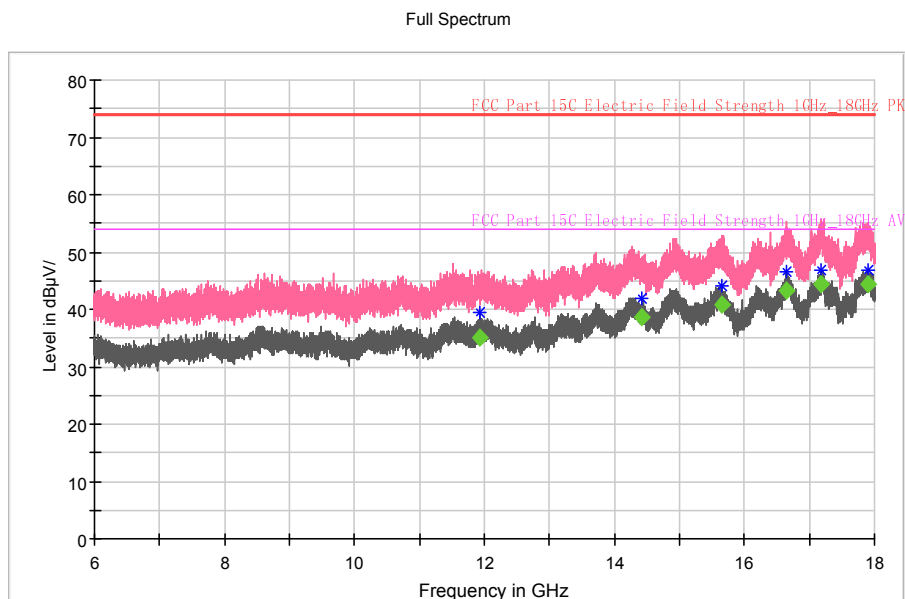
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11195.600	---	53.80	---	36.20	54.00	17.80	-17.60	Vertical
14263.200	---	53.80	---	39.60	54.00	14.40	-14.20	Vertical
15606.400	---	55.16	---	40.96	54.00	13.04	-14.20	Vertical
16641.200	---	56.70	---	43.10	54.00	10.90	-13.60	Vertical
17164.400	---	56.28	---	43.88	54.00	10.12	-12.40	Vertical
17894.800	---	55.08	---	44.48	54.00	9.52	-10.60	Vertical

802.11n (HT40)

Spurious Radiated Emissions from 1GHz to 18GHz:

CH Middle (No.118)

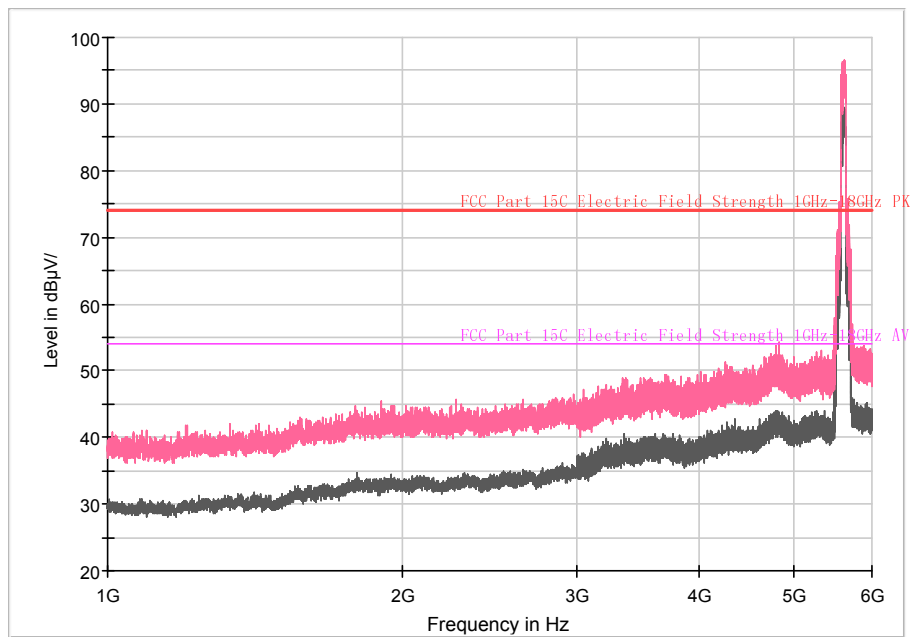




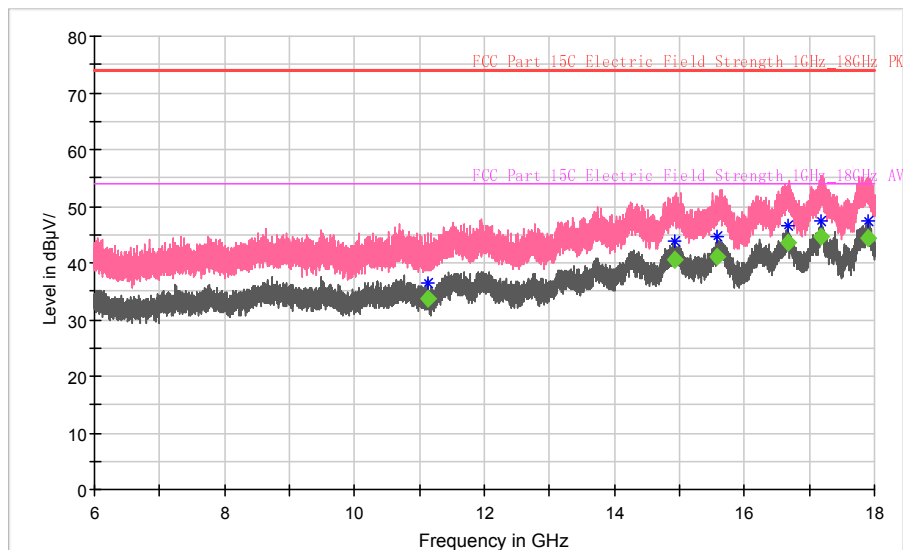
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11928.800	---	51.98	---	35.08	54.00	18.92	-16.90	Vertical
14410.400	---	52.80	---	38.70	54.00	15.30	-14.10	Vertical
15643.600	---	55.14	---	40.94	54.00	13.06	-14.20	Vertical
16640.000	---	56.79	---	43.19	54.00	10.81	-13.60	Vertical
17177.200	---	56.72	---	44.42	54.00	9.58	-12.30	Vertical
17893.200	---	55.12	---	44.52	54.00	9.48	-10.60	Vertical

802.11ac (VHT80)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.122)

Full Spectrum



Full Spectrum



Frequency (MHz)	Reading MaxPeak (dBμV)	Reading Average (dBμV)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
11122.800	---	51.65	---	33.75	54.00	20.25	-17.90	Vertical
14934.000	---	54.57	---	40.67	54.00	13.33	-13.90	Vertical
15589.200	---	55.39	---	41.19	54.00	12.81	-14.20	Vertical
16661.600	---	57.10	---	43.60	54.00	10.40	-13.50	Vertical
17189.200	---	56.95	---	44.65	54.00	9.35	-12.30	Vertical
17894.800	---	55.08	---	44.48	54.00	9.52	-10.60	Vertical

802.11ac (VHT80)

The State Radio_monitoring_centerTesting Center (SRTC)

Tel: 86-10-57996183

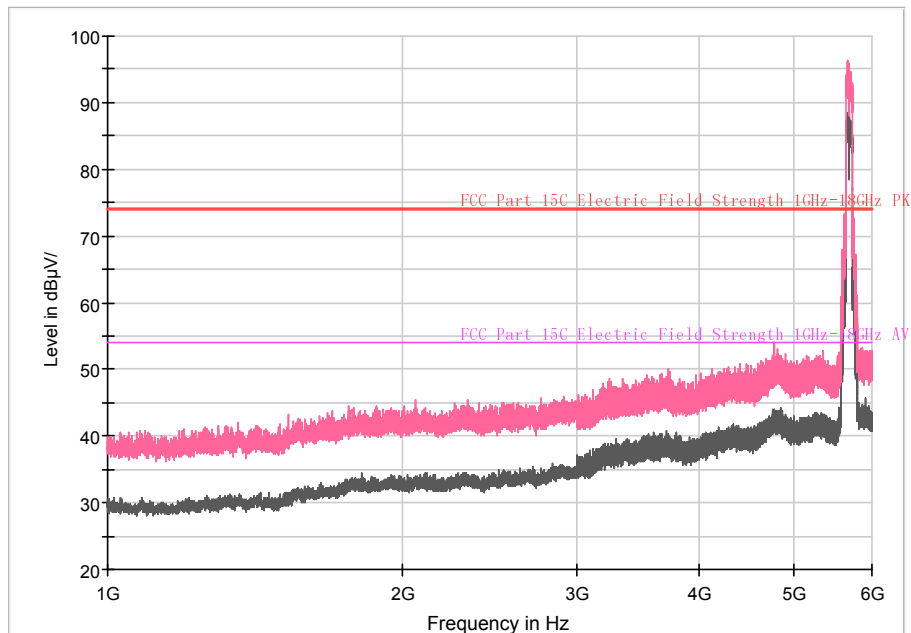
Fax:86-10-57996388

Page number:169 of 178

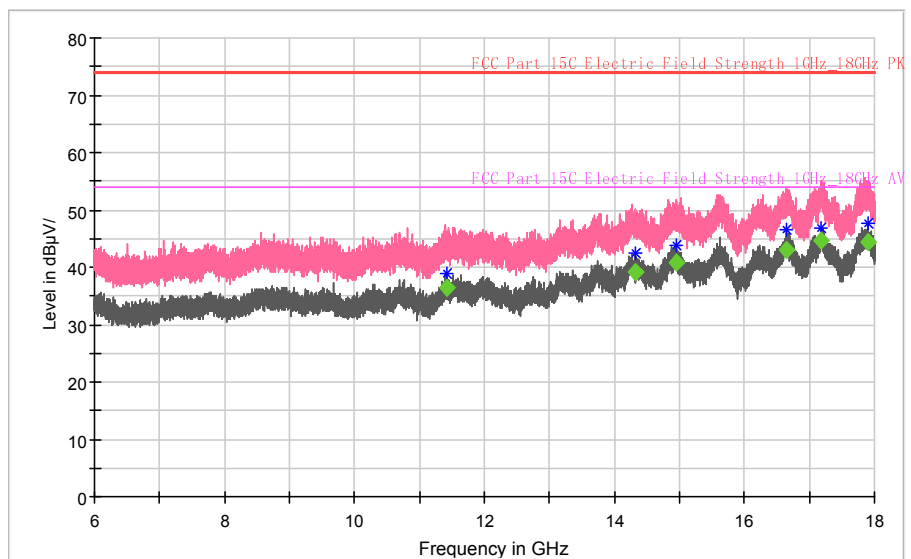
V3.0.0

Spurious Radiated Emissions from 1GHz to 18GHz: CH Middle (No.138)

Full Spectrum



Full Spectrum



Frequency	Reading MaxPeak	Reading Average	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
-----------	-----------------	-----------------	------------------	------------------	----------------	-------------	-----------------------	----------

(MHz)	(dBuV)	(dBuV)						
11409.600	---	53.54	---	36.44	54.00	17.56	-17.10	Vertical
14314.000	---	53.25	---	39.05	54.00	14.95	-14.20	Vertical
14945.600	---	54.80	---	40.90	54.00	13.10	-13.90	Vertical
16634.800	---	56.63	---	43.03	54.00	10.97	-13.60	Vertical
17185.600	---	56.99	---	44.69	54.00	9.31	-12.30	Vertical
17894.800	---	55.03	---	44.43	54.00	9.57	-10.60	Vertical

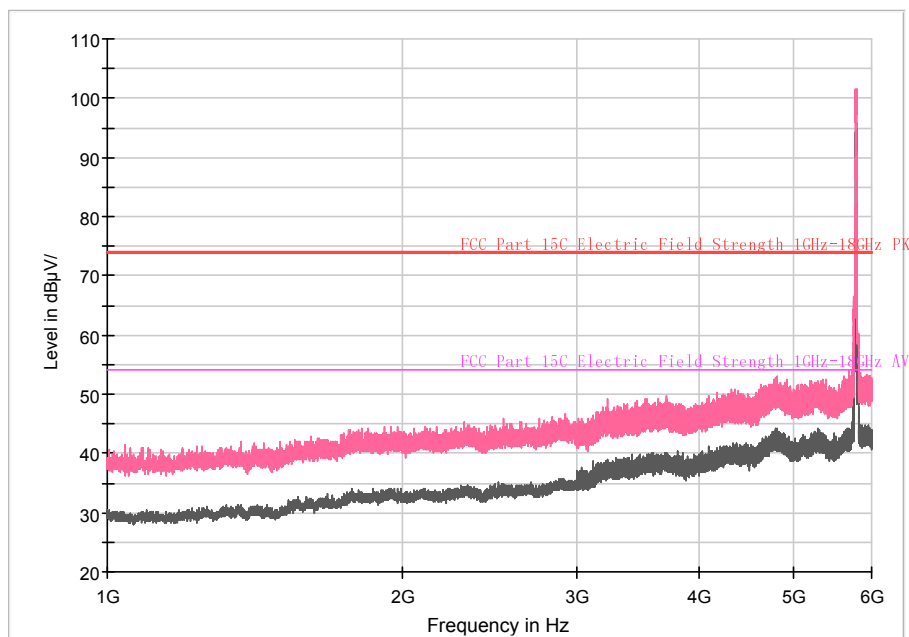
【5725~5850】

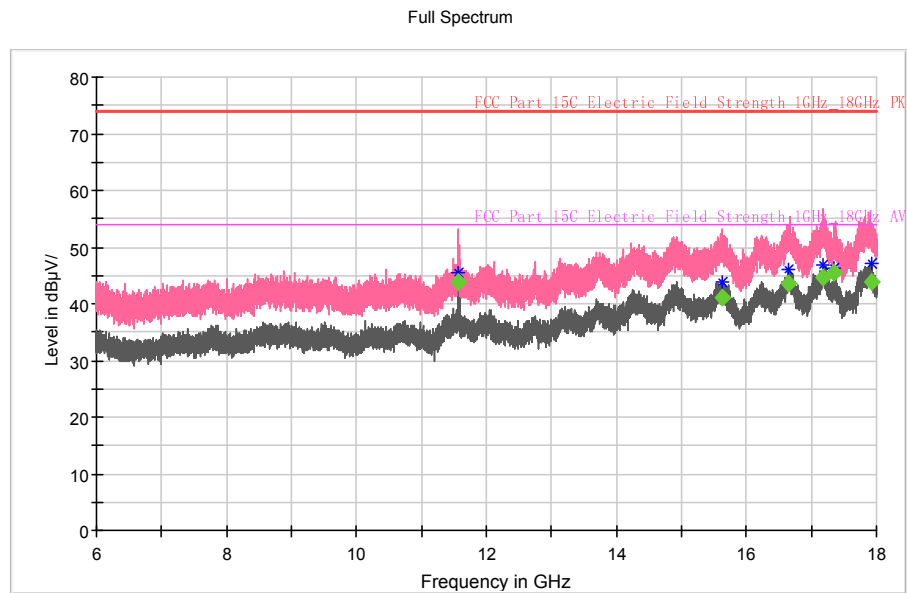
802.11a

Spurious Radiated Emissions from 1GHz to 18GHz:

CH Middle (No.157)

Full Spectrum

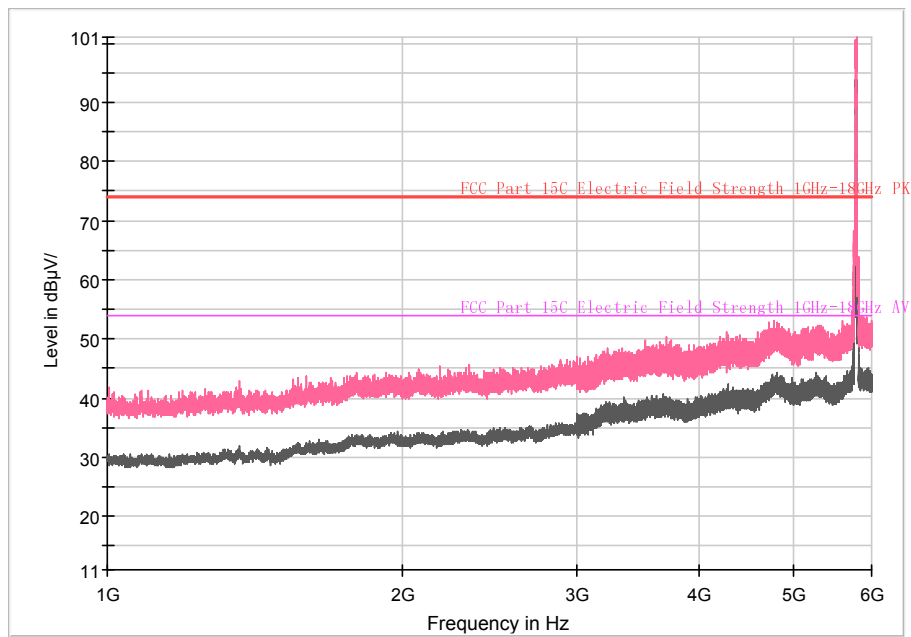




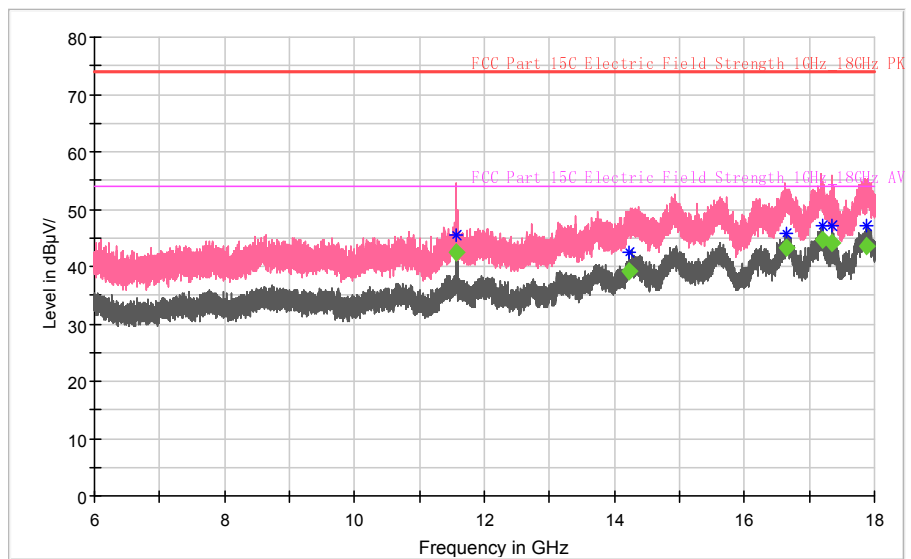
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11571.200	---	60.68	---	43.78	54.00	10.22	-16.90	Vertical
15622.000	---	55.33	---	41.13	54.00	12.87	-14.20	Vertical
16656.000	---	56.96	---	43.46	54.00	10.54	-13.50	Vertical
17188.800	---	56.94	---	44.64	54.00	9.36	-12.30	Vertical
17352.800	---	57.70	---	45.60	54.00	8.40	-12.10	Vertical
17924.000	---	54.18	---	43.78	54.00	10.22	-10.40	Vertical

802.11n (HT20)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.157)

Full Spectrum



Full Spectrum



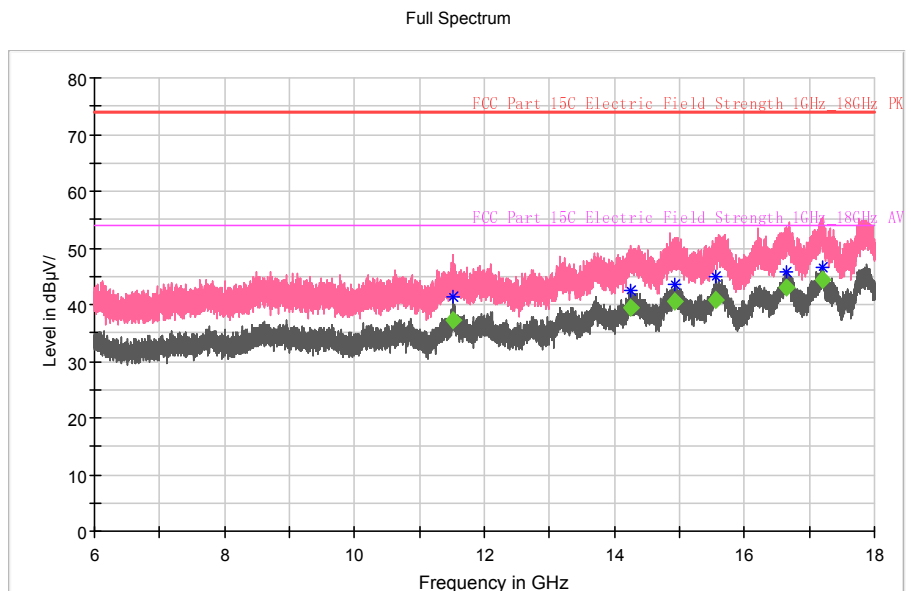
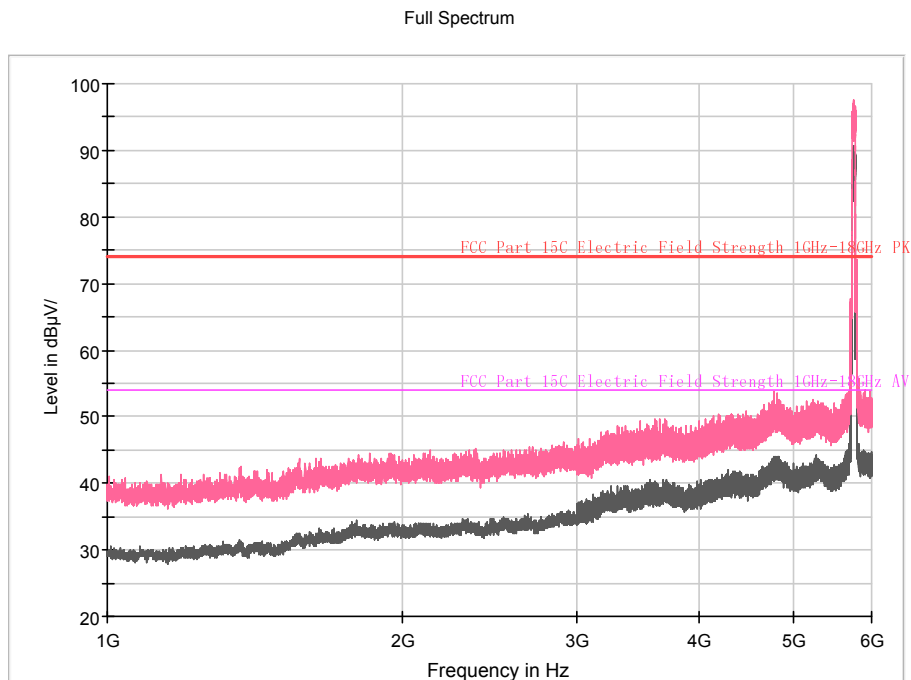
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11566.400	---	59.39	---	42.49	54.00	11.51	-16.90	Vertical
14219.200	---	53.38	---	39.18	54.00	14.82	-14.20	Vertical
16649.600	---	56.77	---	43.27	54.00	10.73	-13.50	Vertical

17196.000	---	56.87	---	44.57	54.00	9.43	-12.30	Vertical
17349.200	---	56.26	---	44.16	54.00	9.84	-12.10	Vertical
17868.000	---	54.42	---	43.62	54.00	10.38	-10.80	Vertical

802.11n (HT40)

Spurious Radiated Emissions from 1GHz to 18GHz:

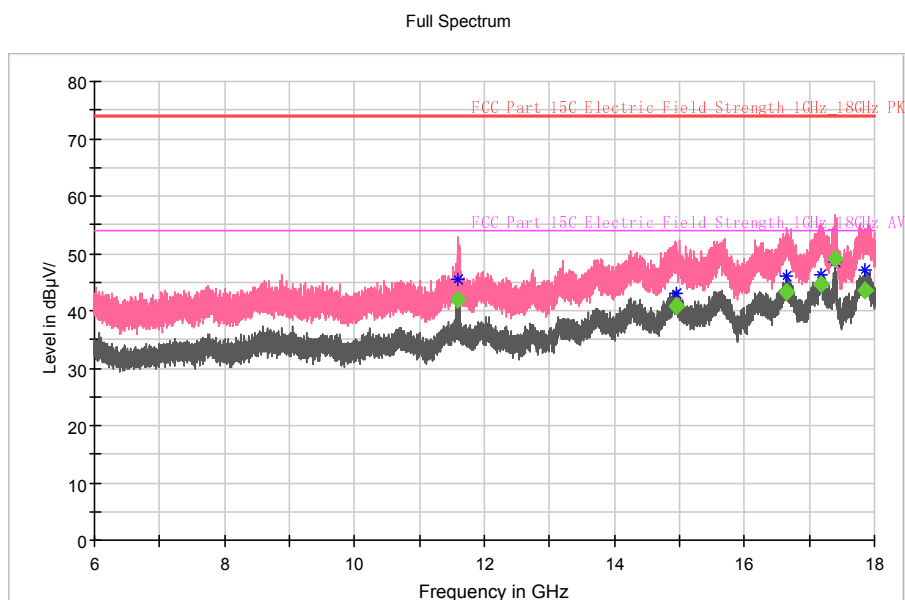
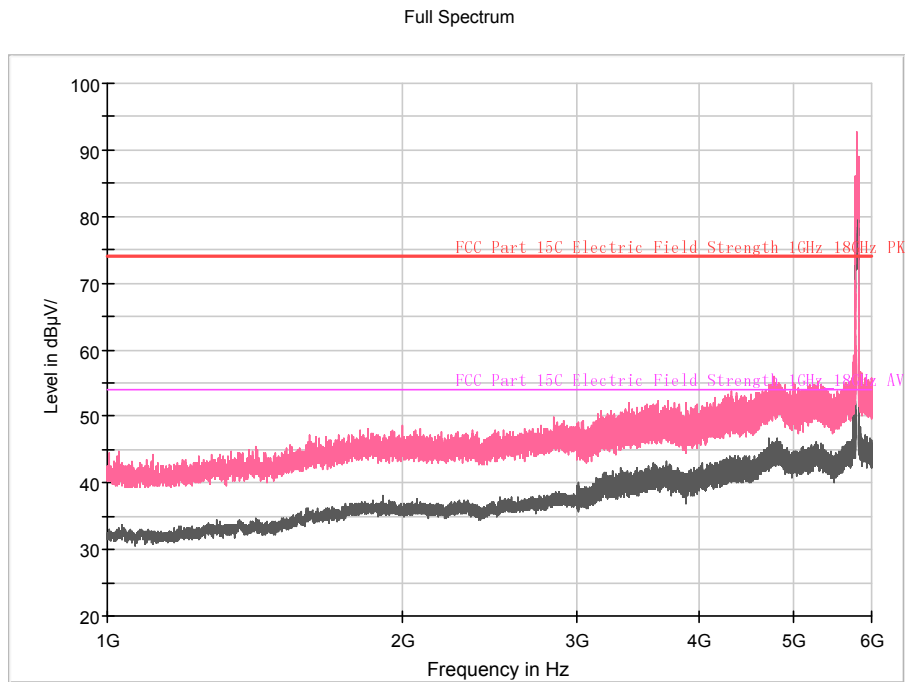
CH Middle (No.151)



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11513.200	---	54.22	---	37.32	54.00	16.68	-16.90	Vertical
14240.000	---	53.71	---	39.51	54.00	14.49	-14.20	Vertical

14937.600	---	54.44	---	40.54	54.00	13.46	-13.90	Vertical
15547.200	---	55.02	---	40.82	54.00	13.18	-14.20	Vertical
16635.200	---	56.59	---	42.99	54.00	11.01	-13.60	Vertical
17190.400	---	56.80	---	44.50	54.00	9.50	-12.30	Vertical

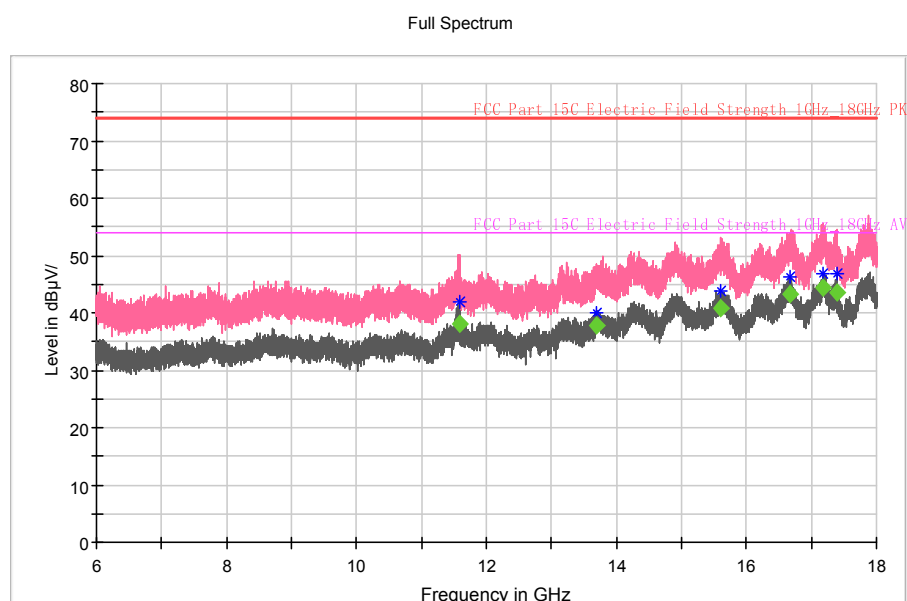
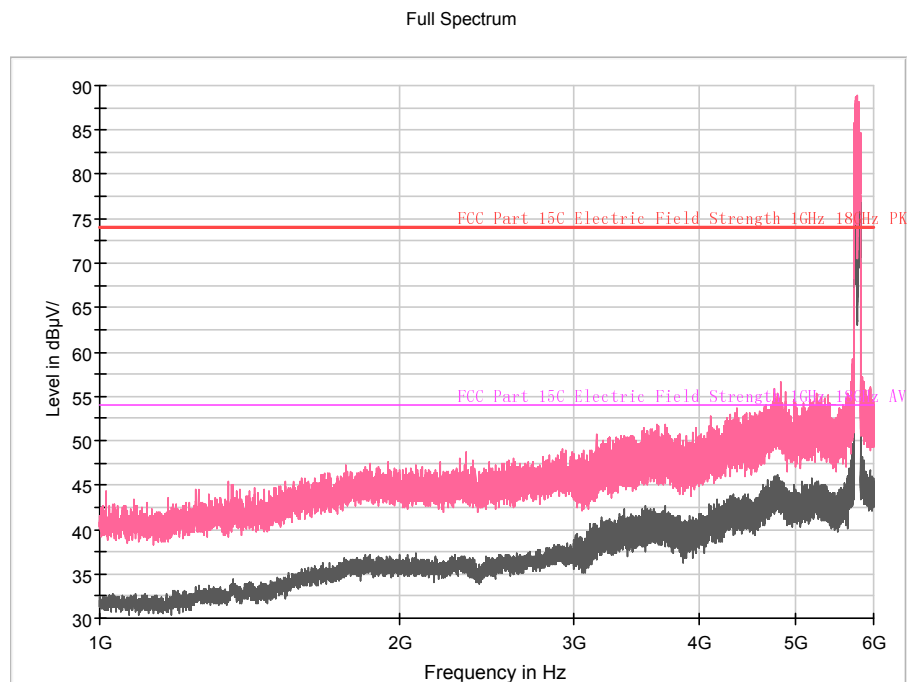
802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.159)



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
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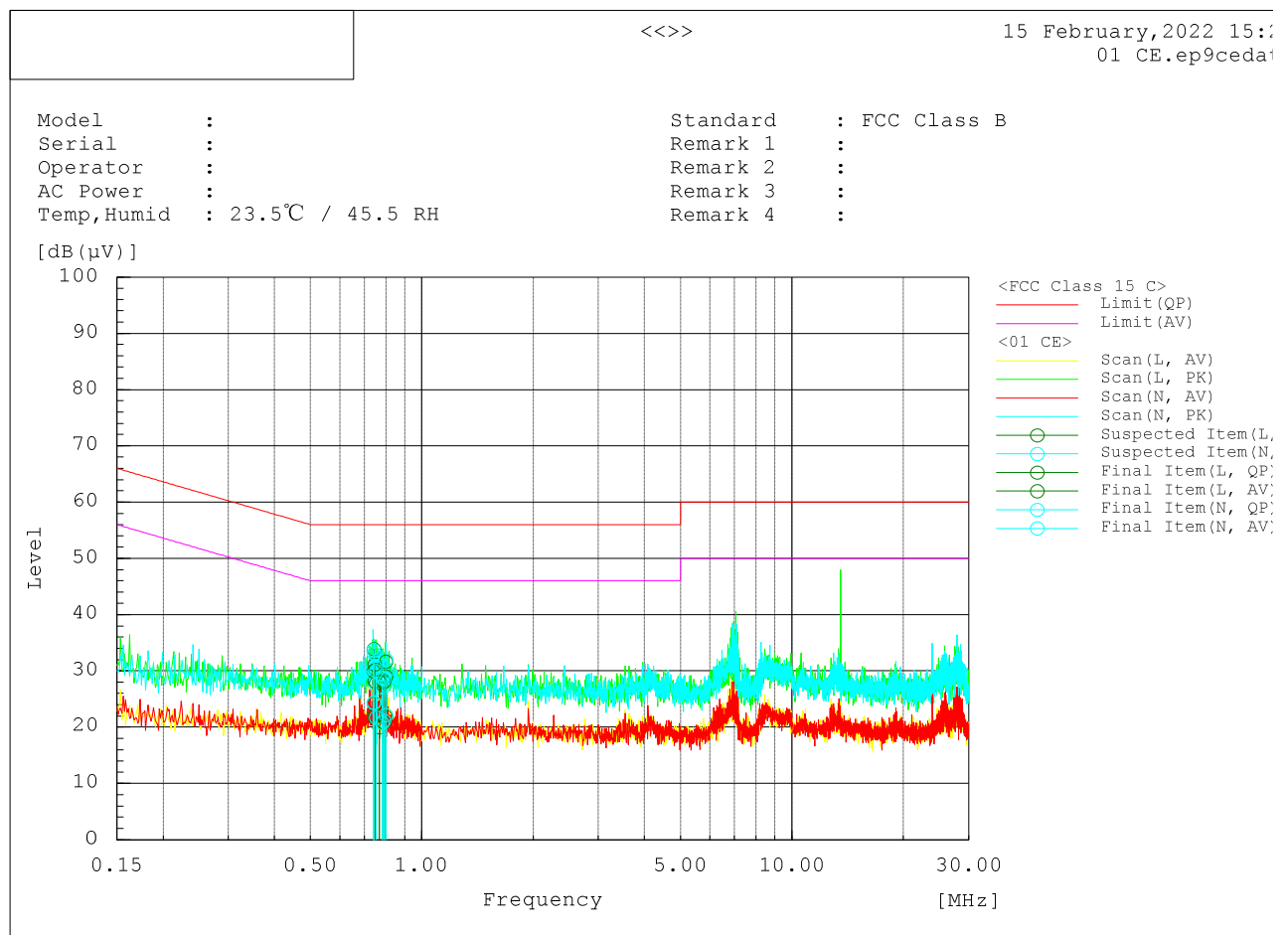
11586.800	---	58.75	---	41.85	54.00	12.15	-16.90	Vertical
14942.400	---	54.67	---	40.77	54.00	13.23	-13.90	Vertical
16651.200	---	56.80	---	43.30	54.00	10.70	-13.50	Vertical
17188.800	---	56.85	---	44.55	54.00	9.45	-12.30	Vertical
17386.800	---	61.01	---	48.91	54.00	5.09	-12.10	Vertical
17865.600	---	54.39	---	43.59	54.00	10.41	-10.80	Vertical

802.11ac (VHT80)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.155)



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11580.800	---	54.96	---	38.06	54.00	15.94	-16.90	Vertical
13704.000	---	52.82	---	37.92	54.00	16.08	-14.90	Vertical
15607.600	---	55.10	---	40.90	54.00	13.10	-14.20	Vertical
16663.200	---	56.79	---	43.29	54.00	10.71	-13.50	Vertical
17182.400	---	56.77	---	44.47	54.00	9.53	-12.30	Vertical
17389.200	---	55.73	---	43.63	54.00	10.37	-12.10	Vertical

AC Power line Conducted Emission



MEASUREMENT RESULT:

Range	Frequency	Line	Reading			Factor	Level			Limit	Limit			Margin			Pass/Fail
	MHz		dB(μV)			dB	dB(μV)			dB(μV)	dB(μV)			dB			
			QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV	PK	
Band1	0.742	L	14.1	4.4		19.8	33.9	24.2			56	46		22.1	21.8		Pass
Band1	0.746	L	11.3	2.3		19.8	31.1	22.1			56	46		24.9	23.9		Pass
Band1	0.749	L	10.4	1.7		19.8	30.2	21.5			56	46		25.8	24.5		Pass
Band1	0.768	L	8.2	0.2		19.8	28	20			56	46		28	26		Pass
Band1	0.788	L	8.3	1		19.8	28.1	20.8			56	46		27.9	25.2		Pass
Band1	0.798	L	11.8	2		19.8	31.6	21.8			56	46		24.4	24.2		Pass
Band1	0.743	N	13.3	4.6		19.8	33.1	24.4			56	46		22.9	21.6		Pass
Band1	0.741	N	13.9	4.5		19.8	33.7	24.3			56	46		22.3	21.7		Pass
Band1	0.753	N	10.1	1.9		19.8	29.9	21.7			56	46		26.1	24.3		Pass
Band1	0.781	N	9	1		19.8	28.8	20.8			56	46		27.2	25.2		Pass
Band1	0.788	N	8.7	1.3		19.8	28.5	21.1			56	46		27.5	24.9		Pass
Band1	0.799	N	12.2	2.4		19.8	32	22.2			56	46		24	23.8		Pass

---The end of the test report---