

APPENDIX B – TEST DATA OF RADIATED EMISSION

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)

Radiated Emission Band Edge

The measurement results are obtained as described below:

Measure Level = Reading Level + Cable loss + Antenna factor Sample calculation: (104.10 dBuV/m) = (57.20 dBμV) + (12.40 dB) + (34.50 dB), the corresponding frequency is 5180MHz.

[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	57.20	104.10	N/A	N/A	12.40	34.50
5150.0	11.70	58.60	-15.40	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)
5180.0	35.40	82.30	N/A	N/A	12.40	34.50
5150.0	-10.50	36.40	-17.60	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	50.70	97.60	N/A	N/A	12.40	34.50
5250.0	13.70	60.60	-13.40	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)
5240.0	36.20	83.10	N/A	N/A	12.40	34.50
5250.0	-5.40	41.50	-12.50	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	47.60	94.50	N/A	N/A	12.40	34.50
5250.0	8.20	55.10	-18.90	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	-4.30	42.60	-11.40	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	43.40	90.30	N/A	N/A	12.40	34.50
5150.0	10.80	57.70	-16.30	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)
5190.0	28.00	74.90	N/A	N/A	12.40	34.50
5150.0	-10.10	36.80	-17.20	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	-2.00	44.90	-9.10	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	53.20	100.10	N/A	N/A	12.40	34.50
5150.0	21.80	68.70	-5.30	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)
5210.0	25.30	72.20	N/A	N/A	12.40	34.50
5150.0	-3.40	43.50	-10.50	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	50.60	97.50	N/A	N/A	12.40	34.50
5240.0	16.70	63.60	-10.40	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)
5260.0	22.40	69.30	N/A	N/A	12.40	34.50
5240.0	-7.70	39.20	-14.80	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	52.40	99.30	N/A	N/A	12.40	34.50
5340.0	17.50	64.40	-9.60	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	26.50	73.40	N/A	N/A	12.40	34.50
5340.0	-5.40	41.50	-12.50	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	44.30	91.20	N/A	N/A	12.40	34.50
5240.0	16.70	63.60	-10.40	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)
5260.0	28.00	74.90	N/A	N/A	12.40	34.50
5240.0	-6.70	40.20	-13.80	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	51.30	98.20	N/A	N/A	12.40	34.50
5340.0	10.90	57.80	-16.20	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)
5320.0	28.20	75.10	N/A	N/A	12.40	34.50
5340.0	-7.00	39.90	-14.10	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	51.70	98.60	N/A	N/A	12.40	34.50
5230.0	12.90	59.80	-14.20	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)
5270.0	27.60	74.50	N/A	N/A	12.40	34.50
5230.0	-5.40	41.50	-12.50	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	43.40	90.30	N/A	N/A	12.40	34.50
5350.0	11.90	58.80	-15.20	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)
5310.0	17.30	64.20	N/A	N/A	12.40	34.50
5350.0	-1.00	45.90	-8.10	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	36.40	83.30	N/A	N/A	12.40	34.50
5210.0	18.00	64.90	-9.10	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)
5290.0	19.80	66.70	N/A	N/A	12.40	34.50
5210.0	-3.20	43.70	-10.30	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	52.30	99.20	N/A	N/A	12.40	34.50
5480.0	13.90	60.80	-13.20	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)
5500.0	34.40	81.30	N/A	N/A	12.40	34.50
5480.0	1.50	48.40	-5.60	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	40.20	87.10	N/A	N/A	12.40	34.50
5720.0	15.90	62.80	-11.20	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)
5700.0	31.60	78.50	N/A	N/A	12.40	34.50
5720.0	-0.50	46.40	-7.60	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	47.70	94.60	N/A	N/A	12.40	34.50
5480.0	10.70	57.60	-16.40	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	28.40	75.30	N/A	N/A	12.40	34.50
5480.0	-1.30	45.60	-8.40	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	49.80	96.70	N/A	N/A	12.40	34.50
5720.0	9.50	56.40	-17.60	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	29.40	76.30	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	50.40	97.30	N/A	N/A	12.40	34.50
5470.0	16.70	63.60	-10.40	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)
5510.0	31.20	78.10	N/A	N/A	12.40	34.50
5470.0	-4.10	42.80	-11.20	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	51.50	98.40	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	29.70	76.60	N/A	N/A	12.40	34.50
5710.0	-3.10	43.80	-10.20	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	42.30	89.20	N/A	N/A	12.40	34.50
5450.0	3.80	50.70	-23.30	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)
5530.0	33.20	80.10	N/A	N/A	12.40	34.50
5450.0	-19.00	27.90	-26.10	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	5.70	52.60	-21.40	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)
5690.0	32.20	79.10	N/A	N/A	12.40	34.50
5770.0	-16.70	30.20	-23.80	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	40.60	87.50	N/A	N/A	12.40	34.50
5725.0	13.40	60.30	-13.70	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)
5745.0	25.20	72.10	N/A	N/A	12.40	34.50
5725.0	-3.30	43.60	-10.40	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	38.40	85.30	N/A	N/A	12.40	34.50
5845.0	7.70	54.60	-19.40	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)
5825.0	33.50	80.40	N/A	N/A	12.40	34.50
5845.0	-8.20	38.70	-15.30	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	60.20	107.10	N/A	N/A	12.40	34.50
5725.0	7.60	54.50	-19.50	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)
5745.0	25.50	72.40	N/A	N/A	12.40	34.50
5725.0	-15.20	31.70	-22.30	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	36.30	83.20	N/A	N/A	12.40	34.50
5845.0	10.80	57.70	-16.30	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)
5825.0	23.20	70.10	N/A	N/A	12.40	34.50
5845.0	-10.40	36.50	-17.50	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	52.30	99.20	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	31.70	78.60	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	51.60	98.50	N/A	N/A	12.40	34.50
5835.0	10.90	57.80	-16.20	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)
5795.0	28.40	75.30	N/A	N/A	12.40	34.50
5835.0	-6.60	40.30	-13.70	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	45.40	92.30	N/A	N/A	12.40	34.50
5695.0	0.60	47.50	-26.50	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)
5775.0	18.50	65.40	N/A	N/A	12.40	34.50
5695.0	-12.30	34.60	-19.40	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:

Below 1GHz:

Quasi Peak=Reading Value + A_{Rpl}

Above 1GHz:

Max Peak=Reading Max Peak + A_{Rpl}

OR

Average=Reading Average + A_{Rpl}

Sample calculation: $(28.19 \text{ dB}\mu\text{V/m}) = (47.79 \text{ dB}\mu\text{V}) + (-19.60 \text{ dB/m})$, the corresponding frequency is 50.467MHz.

The worst case attitude: The mobile lay down.

Spurious Radiated Emissions below 30MHz and above 18G:

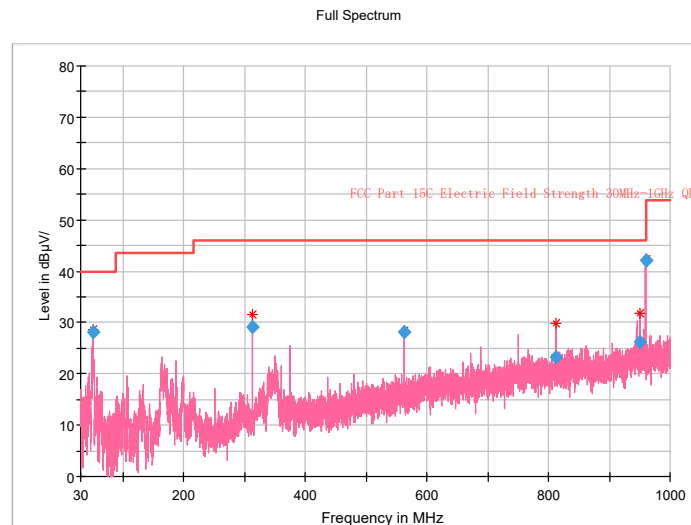
There were no emissions from 9kHz to 30MHz and above 18G found within 20dB of the limit. Thus, the test result was not reported according to §15.31 (o).

[5150~5250]

● 802.11a

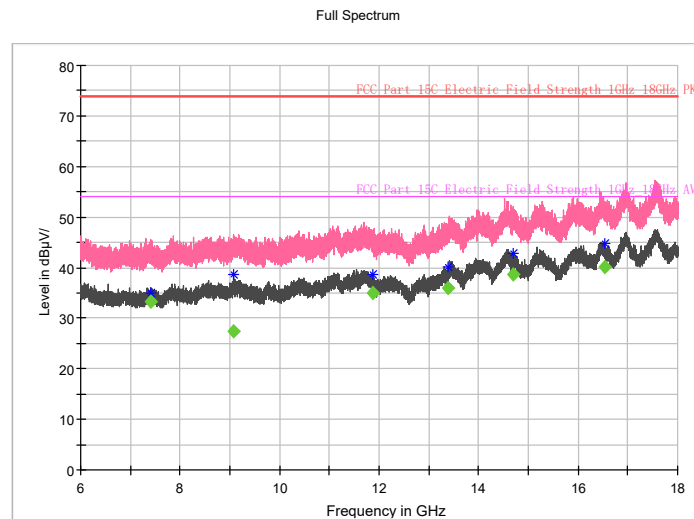
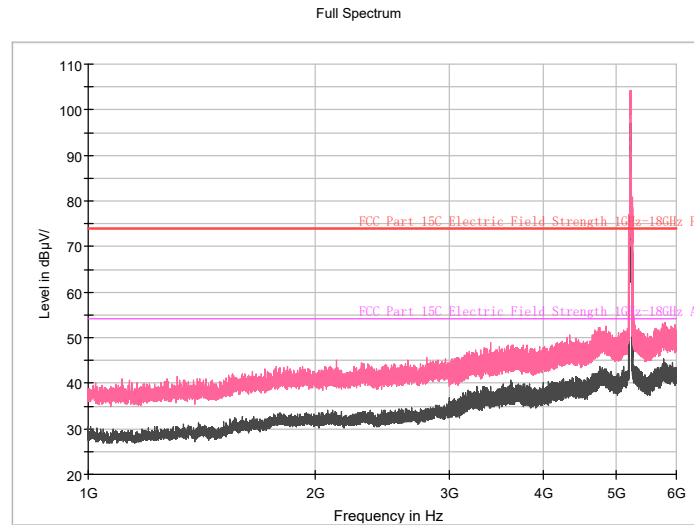
Spurious Radiated Emissions from 30MHz to 1GHz:

CH Middle (No.44)



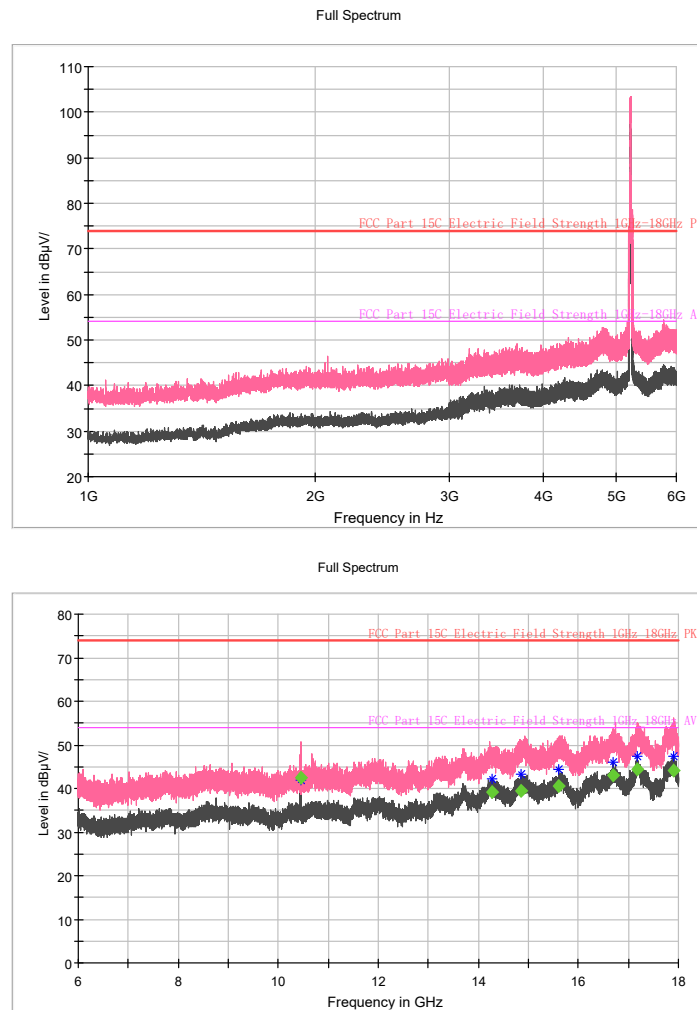
Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A_{Rpl} (dB)	Polarity
50.467	47.79	28.19	40.00	11.81	-19.60	Vertical
312.464	45.97	29.17	46.00	16.83	-16.80	Vertical
562.530	38.04	28.14	46.00	17.86	-9.90	Vertical
812.596	28.14	23.24	46.00	22.76	-4.90	Vertical
950.821	28.68	26.28	46.00	19.72	-2.40	Vertical
959.842	44.65	42.15	46.00	3.85	-2.50	Vertical

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



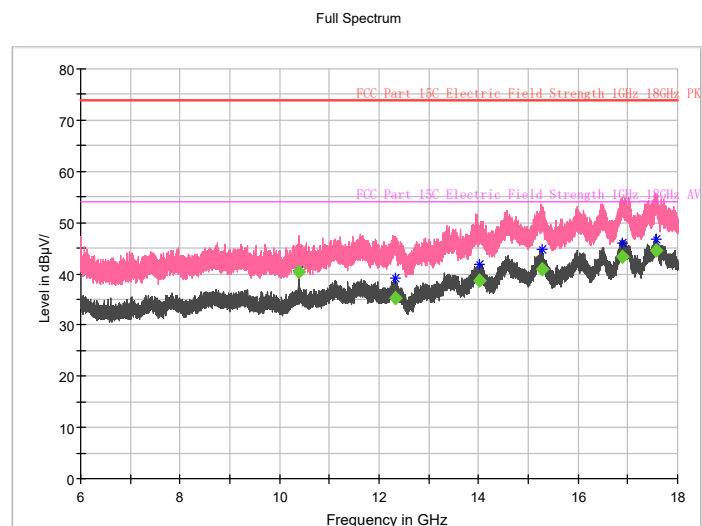
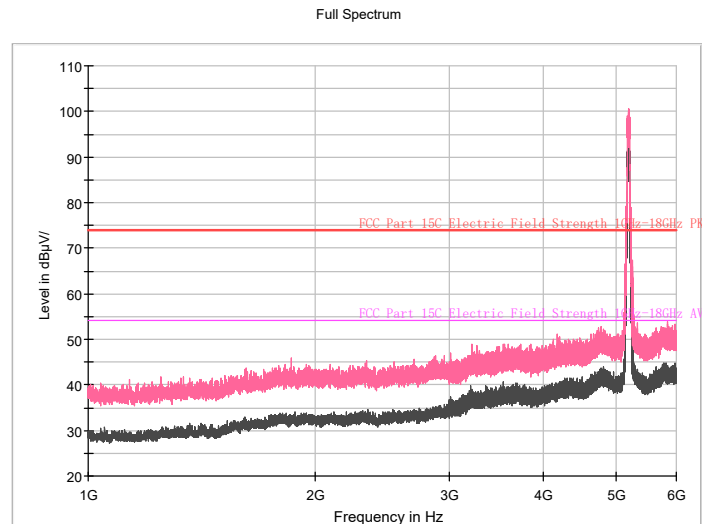
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
7404.000	---	54.92	---	33.32	54.00	20.68	-21.60	Vertical
9080.800	---	47.64	---	27.34	54.00	26.66	-20.30	Vertical
11880.000	---	51.95	---	34.95	54.00	19.05	-17.00	Vertical
13398.800	---	51.20	---	36.00	54.00	18.00	-15.20	Vertical
14700.400	---	52.75	---	38.65	54.00	15.35	-14.10	Vertical
16537.200	---	53.96	---	40.16	54.00	13.84	-13.80	Vertical

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



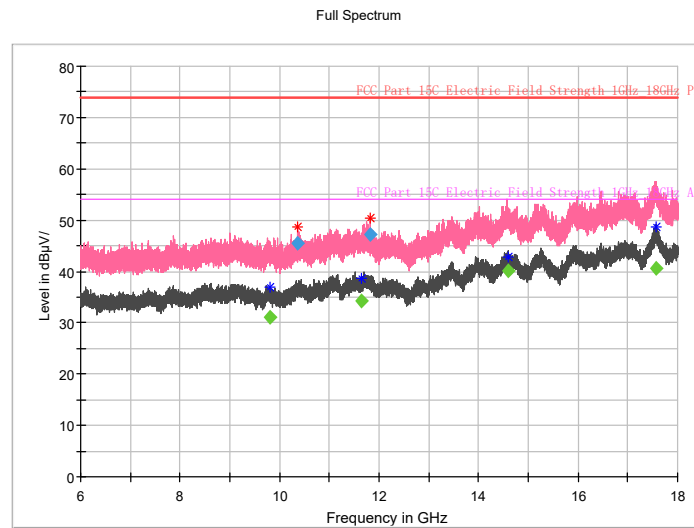
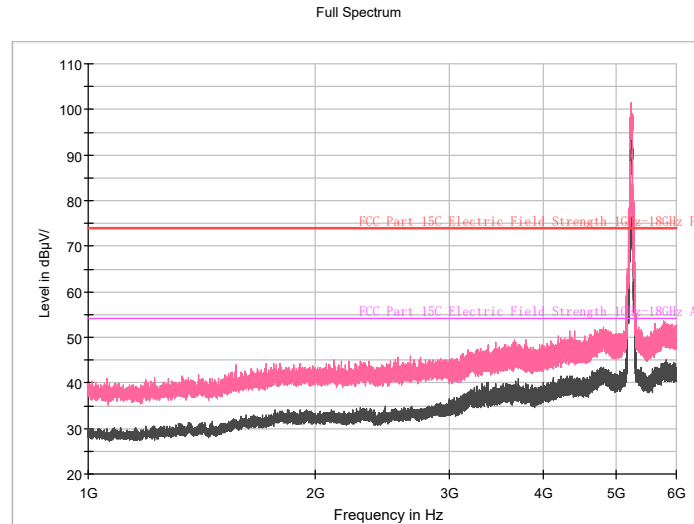
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
10440.400	---	61.48	---	42.38	54.00	11.62	-19.10	Vertical
14281.600	---	53.42	---	39.22	54.00	14.78	-14.20	Vertical
14850.400	---	53.29	---	39.39	54.00	14.61	-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)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.38)



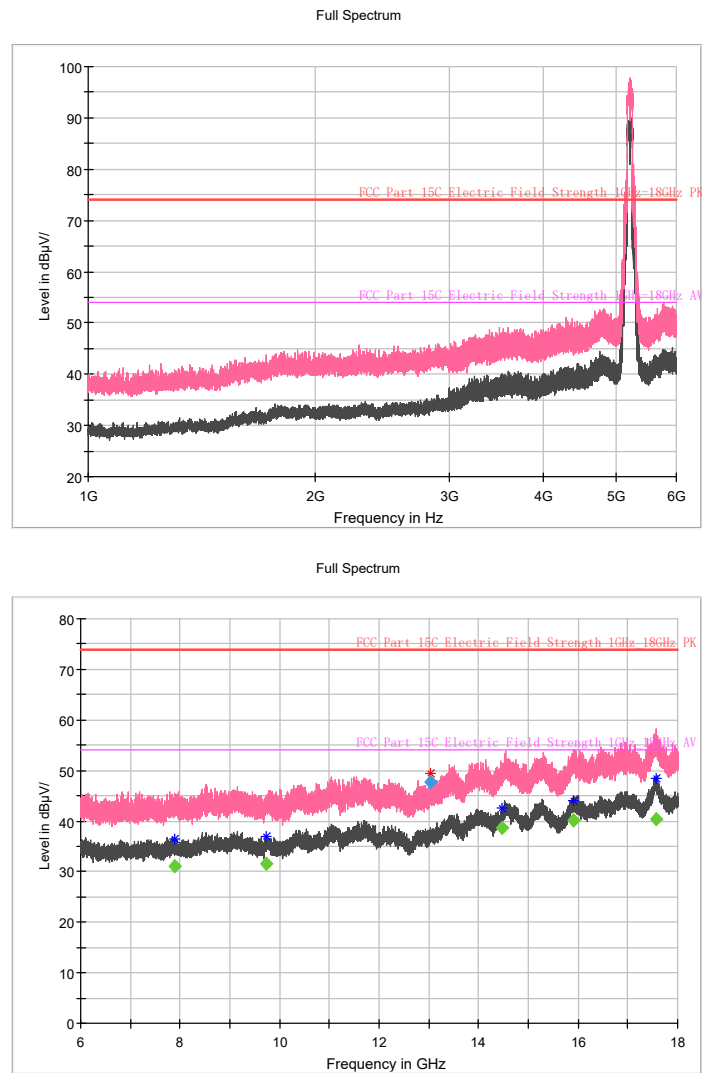
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
10378.800	---	59.59	---	40.29	54.00	13.71	-19.30	Vertical
12322.800	---	52.63	---	35.13	54.00	18.87	-17.50	Vertical
14027.600	---	53.05	---	38.55	54.00	15.45	-14.50	Vertical
15266.400	---	55.05	---	40.95	54.00	13.05	-14.10	Vertical
16900.000	---	56.42	---	43.42	54.00	10.58	-13.00	Vertical
17569.200	---	56.36	---	44.46	54.00	9.54	-11.90	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 _{RPI} (dB)	Polarity
9798.000	---	51.59	---	31.09	54.00	22.91	-20.50	Vertical
10370.000	64.86	---	45.56	---	74.00	28.44	-19.30	Vertical
11644.000	---	51.26	---	34.36	54.00	19.64	-16.90	Vertical
11823.600	64.27	---	47.27	---	74.00	26.73	-17.00	Vertical
14608.400	---	54.10	---	40.00	54.00	14.00	-14.10	Vertical
17569.200	---	52.50	---	40.60	54.00	13.40	-11.90	Vertical

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



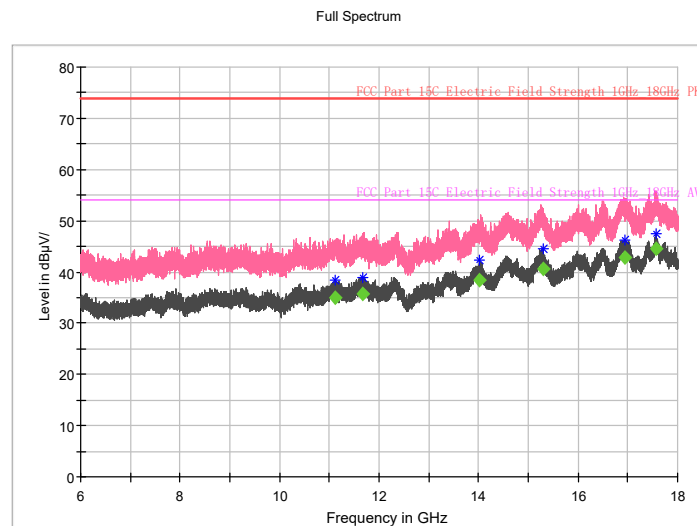
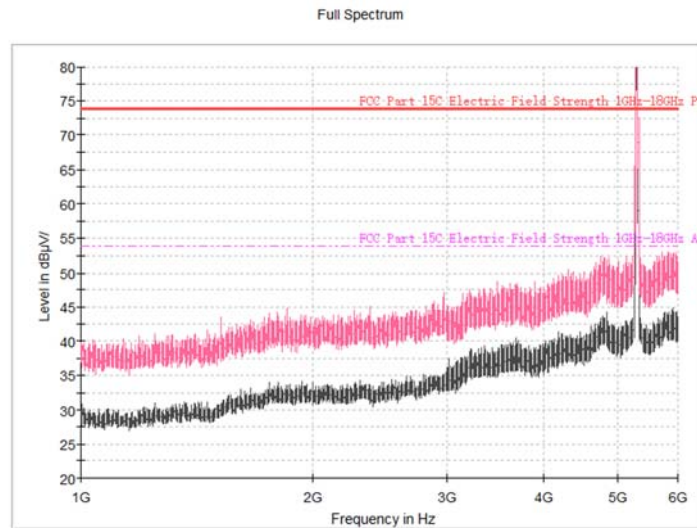
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
7880.800	---	52.51	---	31.11	54.00	22.89	-21.40	Vertical
9726.000	---	51.83	---	31.53	54.00	22.47	-20.30	Vertical
13041.200	64.28	---	47.68	---	74.00	26.32	-16.60	Vertical
14474.800	---	52.58	---	38.58	54.00	15.42	-14.00	Vertical
15903.200	---	54.64	---	40.14	54.00	13.86	-14.50	Vertical
17583.600	---	52.19	---	40.29	54.00	13.71	-11.90	Vertical

[5250~5350]

● 802.11a

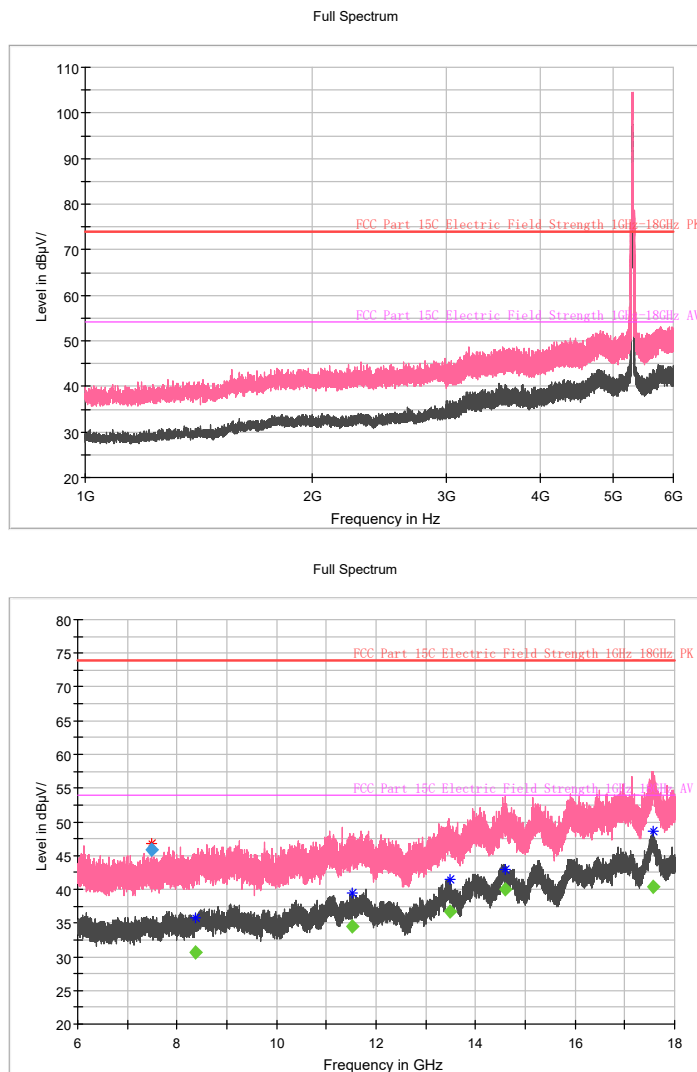
Spurious Radiated Emissions from 1GHz to 18GHz:

CH Middle (No.60)



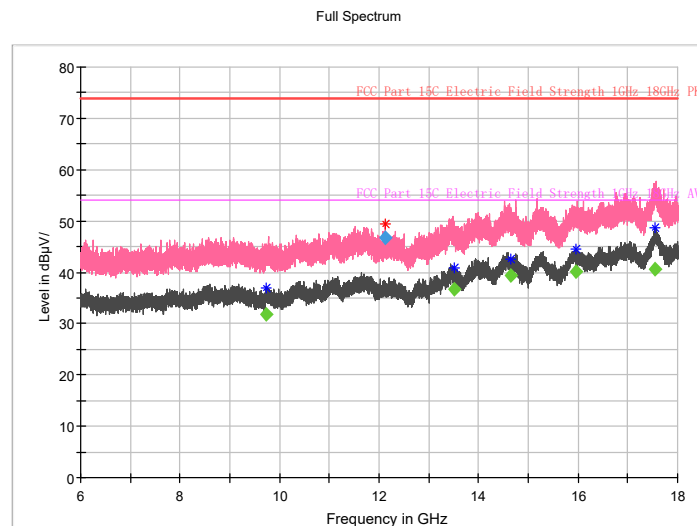
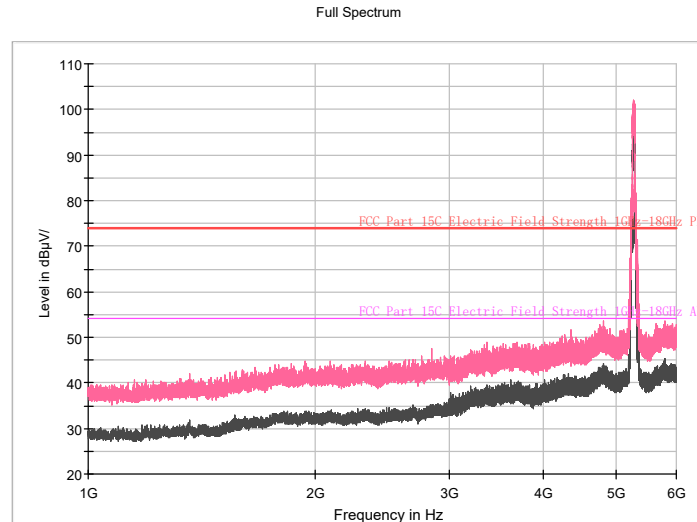
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
11125.600	---	52.98	---	35.08	54.00	18.92	-17.90	Vertical
11661.200	---	52.58	---	35.68	54.00	18.32	-16.90	Vertical
14029.200	---	52.96	---	38.46	54.00	15.54	-14.50	Vertical
15295.600	---	54.71	---	40.61	54.00	13.39	-14.10	Vertical
16931.200	---	55.82	---	42.92	54.00	11.08	-12.90	Vertical
17561.600	---	56.33	---	44.43	54.00	9.57	-11.90	Vertical

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



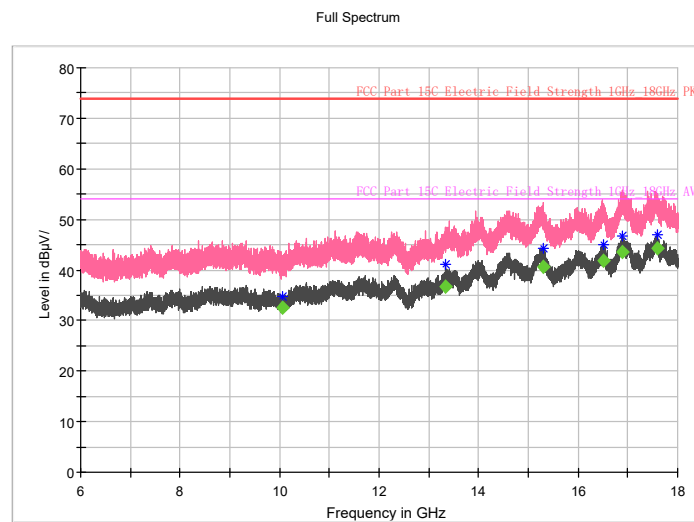
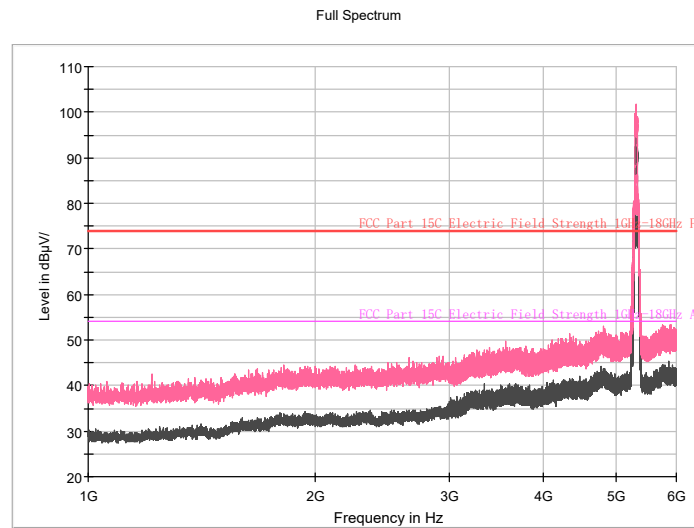
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
7485.600	67.33	---	45.83	---	74.00	28.17	-21.50	Vertical
8369.200	---	51.59	---	30.59	54.00	23.41	-21.00	Vertical
11515.200	---	51.41	---	34.51	54.00	19.49	-16.90	Vertical
13494.800	---	51.78	---	36.78	54.00	17.22	-15.00	Vertical
14606.800	---	54.06	---	39.96	54.00	14.04	-14.10	Vertical
17584.000	---	52.22	---	40.32	54.00	13.68	-11.90	Vertical

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



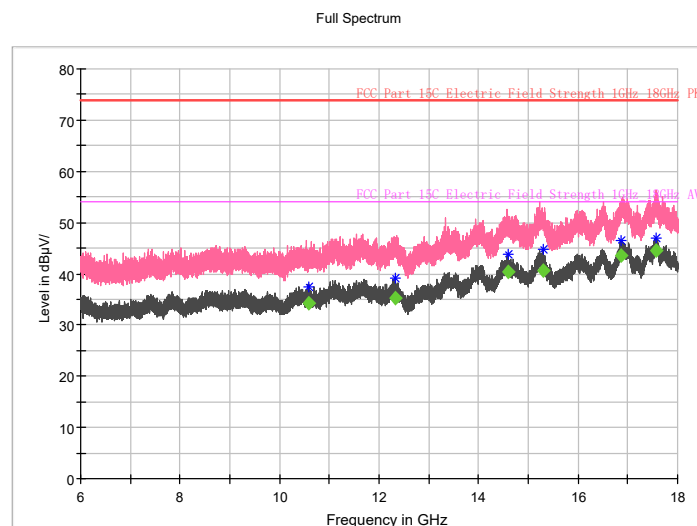
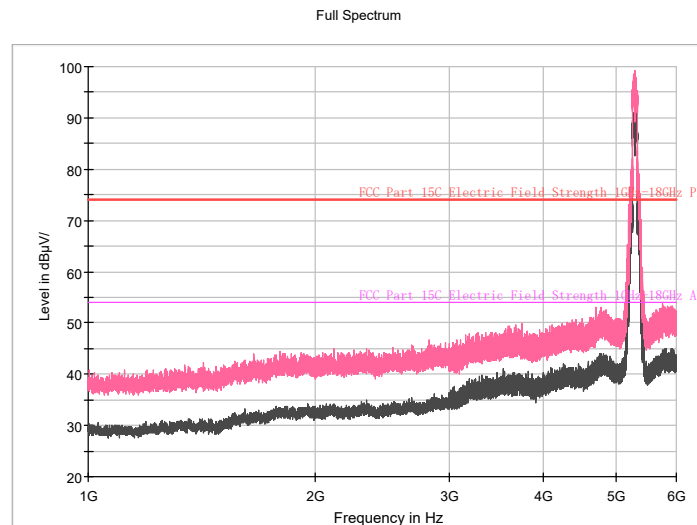
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
9732.400	---	52.22	---	31.92	54.00	22.08	-20.30	Vertical
12127.200	63.81	---	46.61	---	74.00	27.39	-17.20	Vertical
13502.400	---	51.67	---	36.67	54.00	17.33	-15.00	Vertical
14643.200	---	53.38	---	39.28	54.00	14.72	-14.10	Vertical
15956.000	---	54.68	---	40.08	54.00	13.92	-14.60	Vertical
17549.600	---	52.53	---	40.63	54.00	13.37	-11.90	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 _{Rpl} (dB)	Polarity
10050.400	---	52.86	---	32.56	54.00	21.44	-20.30	Vertical
13324.000	---	52.11	---	36.71	54.00	17.29	-15.40	Vertical
15292.000	---	54.75	---	40.65	54.00	13.35	-14.10	Vertical
16516.800	---	55.72	---	41.92	54.00	12.08	-13.80	Vertical
16880.800	---	56.61	---	43.61	54.00	10.39	-13.00	Vertical
17584.800	---	56.24	---	44.34	54.00	9.66	-11.90	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 _{RPI} (dB)	Polarity
10594.000	---	53.04	---	34.14	54.00	19.86	-18.90	Vertical
12315.200	---	52.64	---	35.14	54.00	18.86	-17.50	Vertical
14590.000	---	54.52	---	40.42	54.00	13.58	-14.10	Vertical
15306.000	---	54.77	---	40.67	54.00	13.33	-14.10	Vertical
16873.200	---	56.43	---	43.43	54.00	10.57	-13.00	Vertical
17564.000	---	56.42	---	44.52	54.00	9.48	-11.90	Vertical

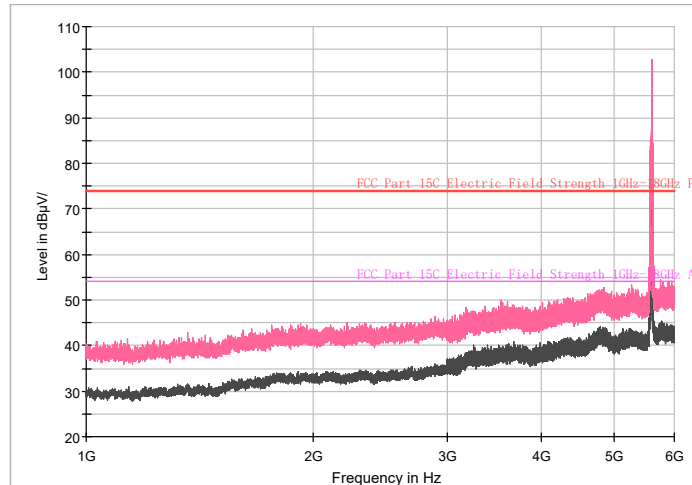
[5470~5725]

● 802.11a

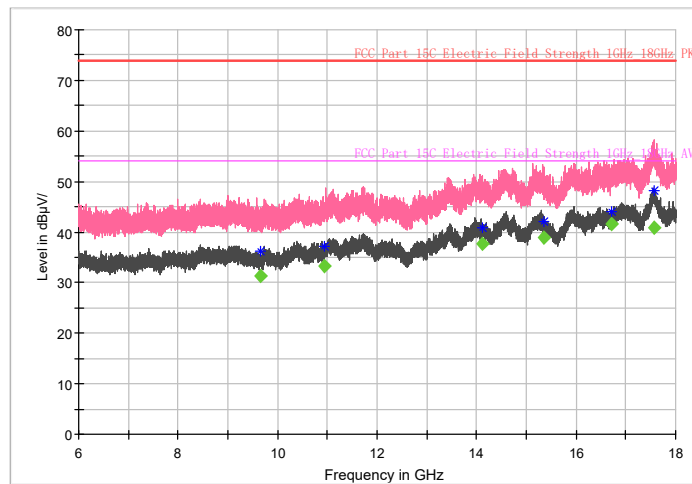
Spurious Radiated Emissions from 1GHz to 18GHz:

CH Middle (No.120)

Full Spectrum

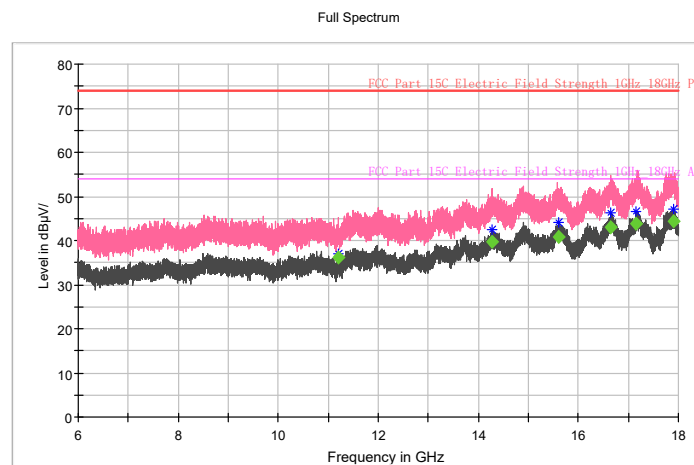
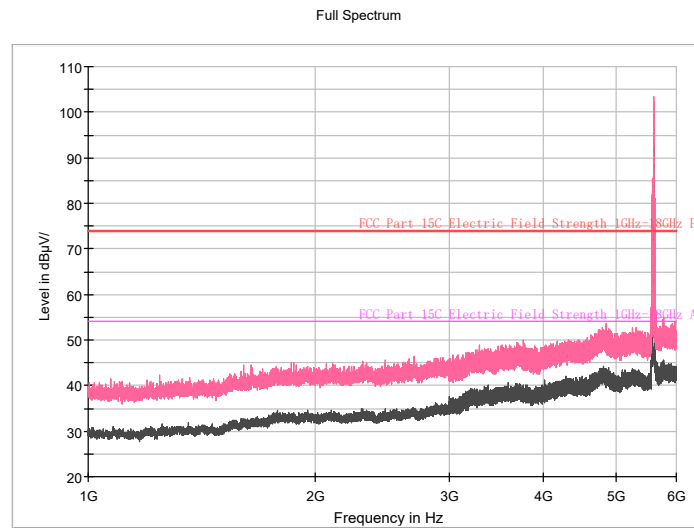


Full Spectrum



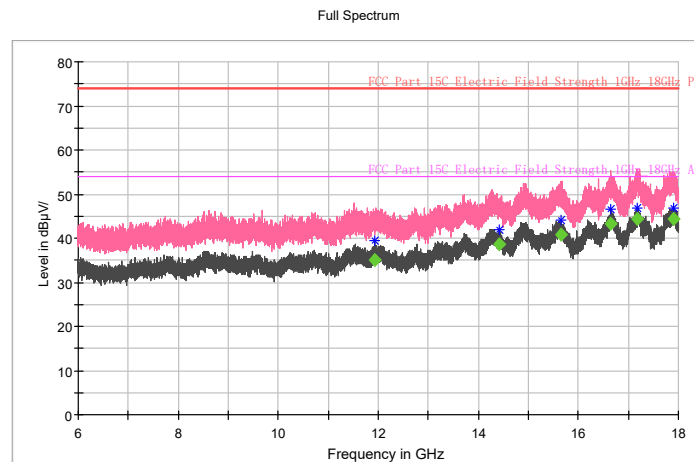
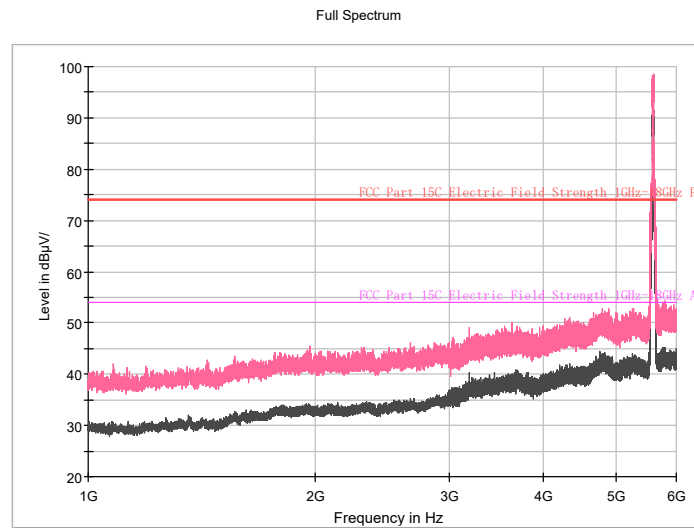
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
9663.200	---	51.49	---	31.29	54.00	22.71	-20.20	Vertical
10937.600	---	51.64	---	33.34	54.00	20.66	-18.30	Vertical
14105.200	---	52.17	---	37.77	54.00	16.23	-14.40	Vertical
15347.600	---	52.93	---	38.83	54.00	15.17	-14.10	Vertical
16721.200	---	54.84	---	41.64	54.00	12.36	-13.20	Vertical
17559.200	---	52.68	---	40.78	54.00	13.22	-11.90	Vertical

● 802.11n (HT20)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.120)



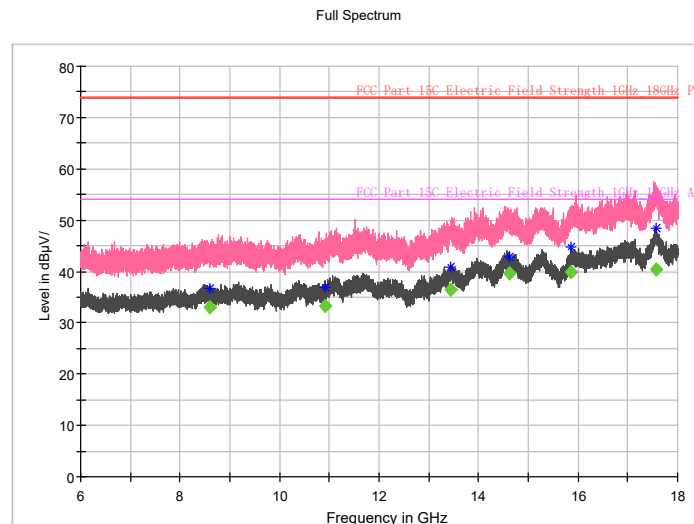
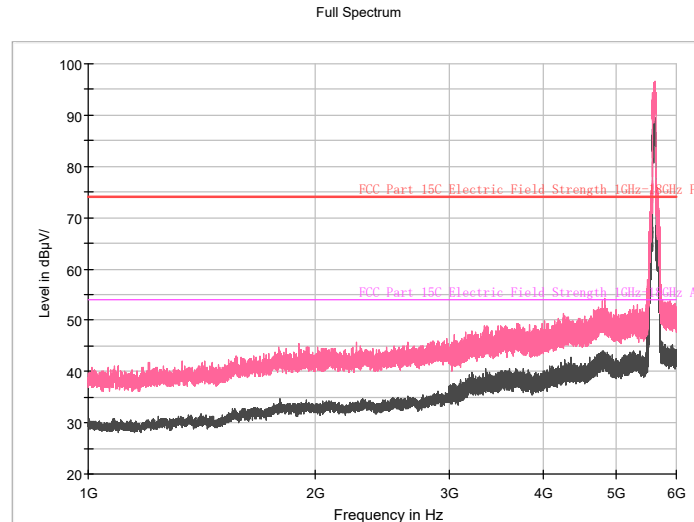
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11195.600	---	53.80	---	36.20	54.00	17.80	-17.60	Vertical
14263.200	---	53.80	---	39.60	54.00	14.40	-14.20	Vertical
15606.400	---	55.16	---	40.96	54.00	13.04	-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)



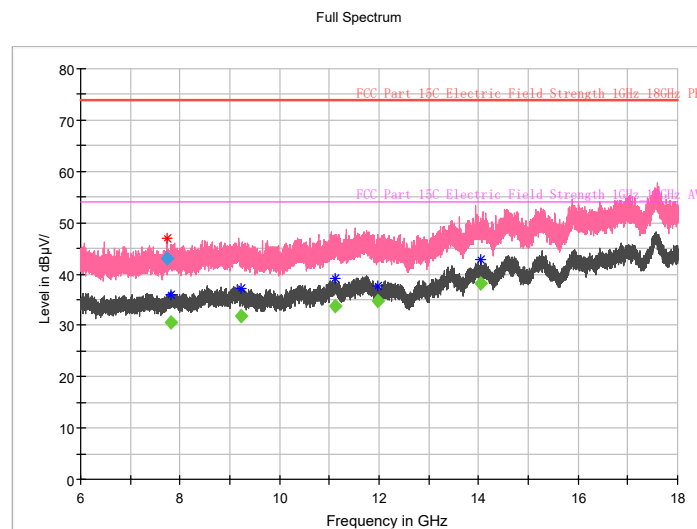
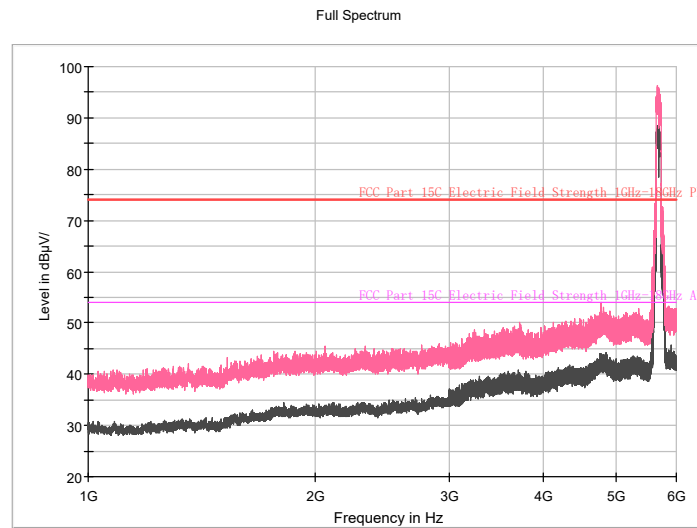
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11928.800	---	51.98	---	35.08	54.00	18.92	-16.90	Vertical
14410.400	---	52.80	---	38.70	54.00	15.30	-14.10	Vertical
15643.600	---	55.14	---	40.94	54.00	13.06	-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)



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
8608.400	---	53.37	---	32.97	54.00	21.03	-20.40	Vertical
10909.600	---	51.69	---	33.29	54.00	20.71	-18.40	Vertical
13426.800	---	51.54	---	36.34	54.00	17.66	-15.20	Vertical
14630.400	---	53.74	---	39.64	54.00	14.36	-14.10	Vertical
15857.200	---	54.27	---	39.77	54.00	14.23	-14.50	Vertical
17570.400	---	52.35	---	40.45	54.00	13.55	-11.90	Vertical

● 802.11ac (VHT80)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.138)



Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
7750.400	64.45	---	43.05	---	74.00	30.95	-21.40	Vertical
7817.600	---	51.83	---	30.53	54.00	23.47	-21.30	Vertical
9230.000	---	52.00	---	31.90	54.00	22.10	-20.10	Vertical
11113.600	---	51.62	---	33.72	54.00	20.28	-17.90	Vertical
11962.800	---	51.74	---	34.84	54.00	19.16	-16.90	Vertical
14047.200	---	52.61	---	38.11	54.00	15.89	-14.50	Vertical

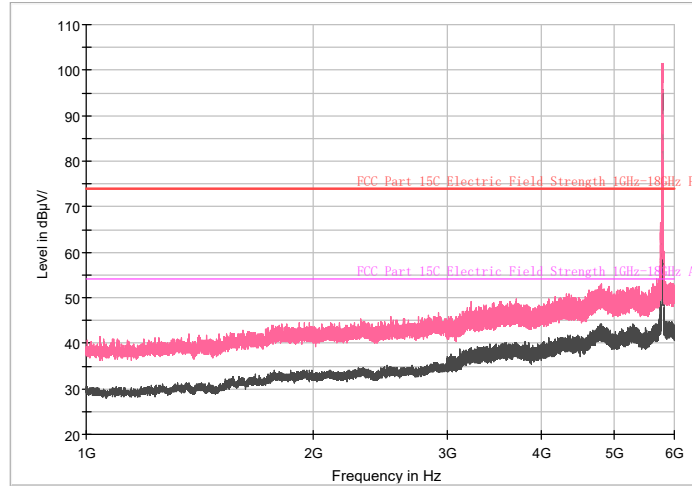
[5725~5850]

● 802.11a

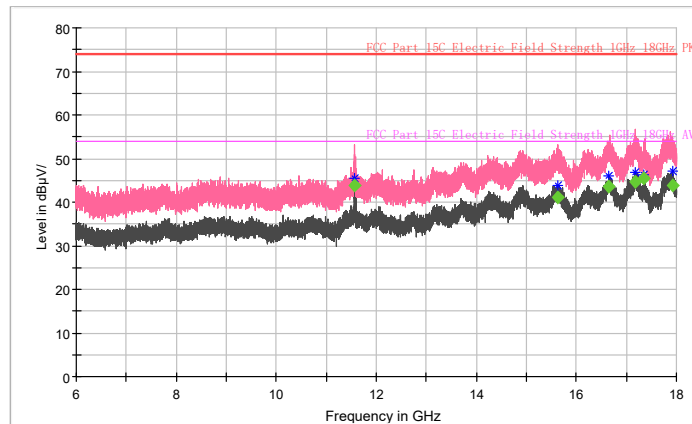
Spurious Radiated Emissions from 1GHz to 18GHz:

CH Middle (No.157)

Full Spectrum

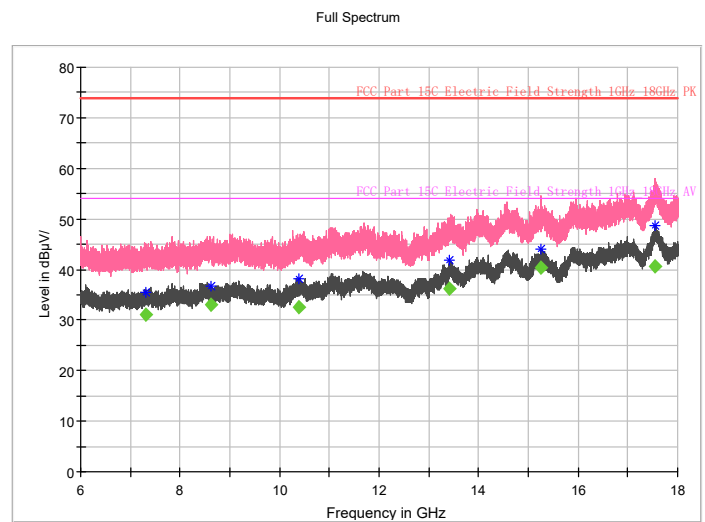
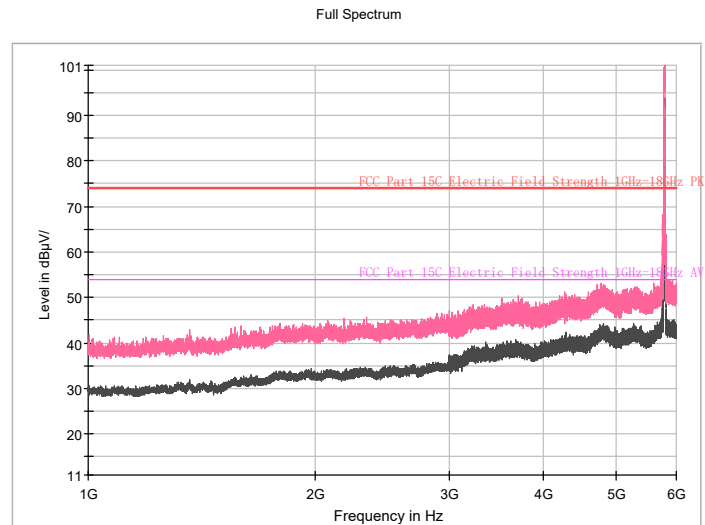


Full Spectrum



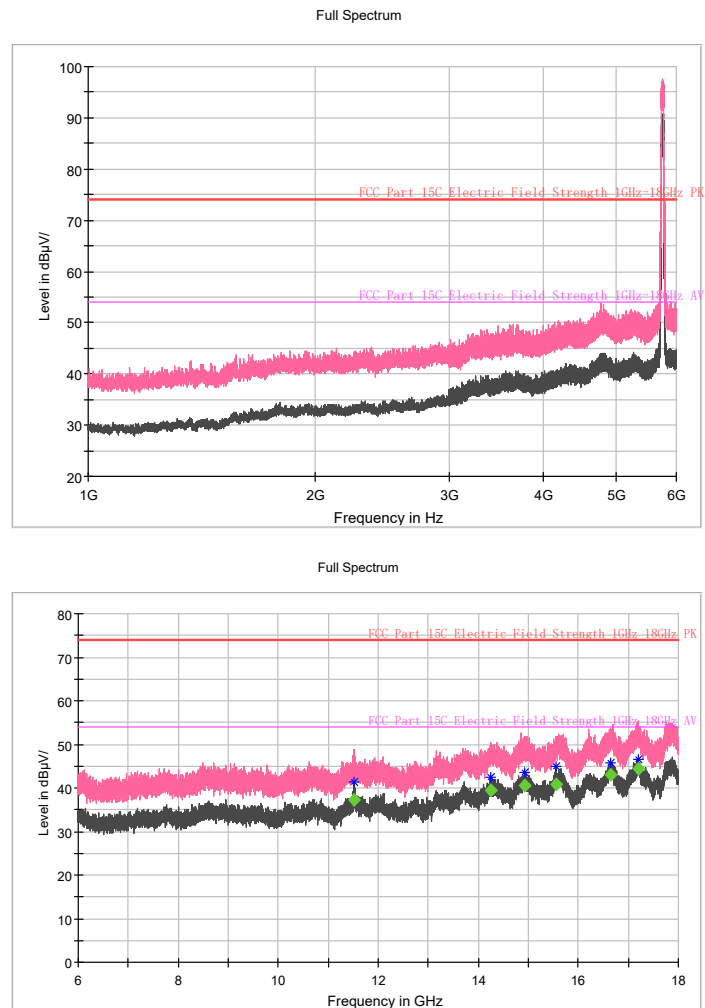
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11571.200	---	60.68	---	43.78	54.00	10.22	-16.90	Vertical
15622.000	---	55.33	---	41.13	54.00	12.87	-14.20	Vertical
16656.000	---	56.96	---	43.46	54.00	10.54	-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)



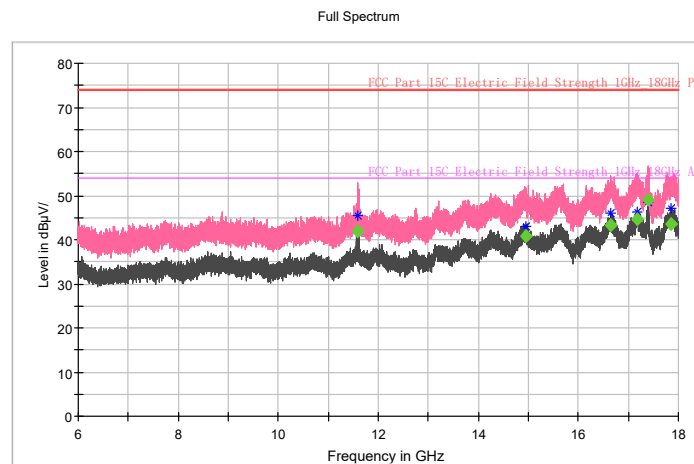
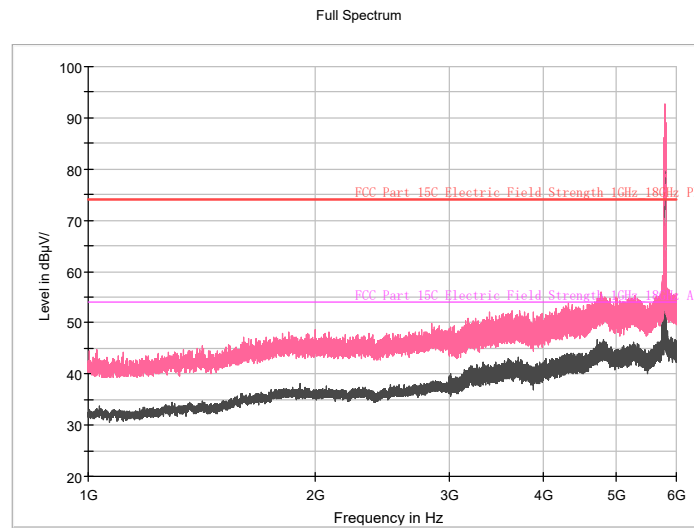
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
7315.600	---	52.74	---	31.14	54.00	22.86	-21.60	Vertical
8622.800	---	53.36	---	32.96	54.00	21.04	-20.40	Vertical
10374.400	---	51.74	---	32.44	54.00	21.56	-19.30	Vertical
13422.800	---	51.36	---	36.16	54.00	17.84	-15.20	Vertical
15250.400	---	54.53	---	40.43	54.00	13.57	-14.10	Vertical
17549.200	---	52.53	---	40.63	54.00	13.37	-11.90	Vertical

● 802.11n (HT40)
Spurious Radiated Emissions from 1GHz to 18GHz:
CH Middle (No.151)



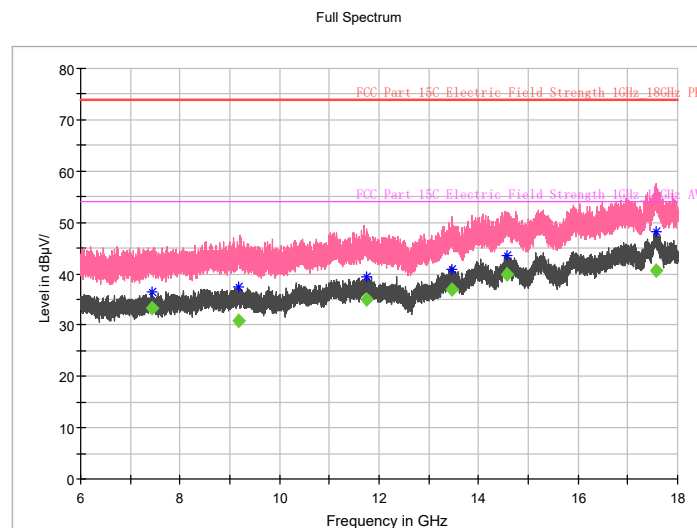
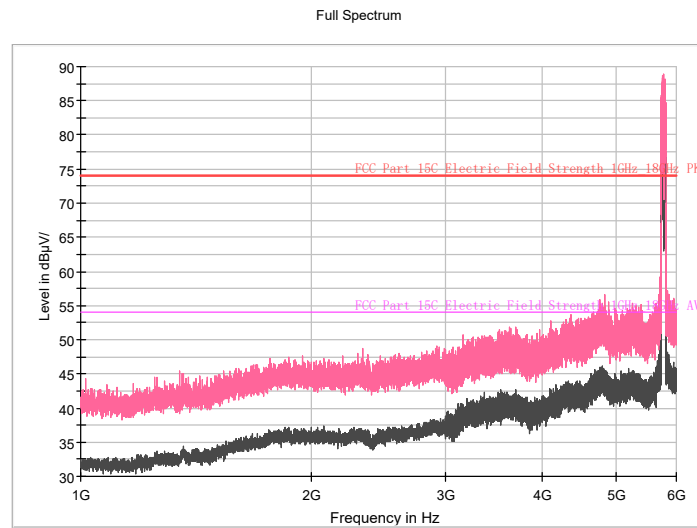
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11513.200	---	54.22	---	37.32	54.00	16.68	-16.90	Vertical
14240.000	---	53.71	---	39.51	54.00	14.49	-14.20	Vertical
14937.600	---	54.44	---	40.54	54.00	13.46	-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)



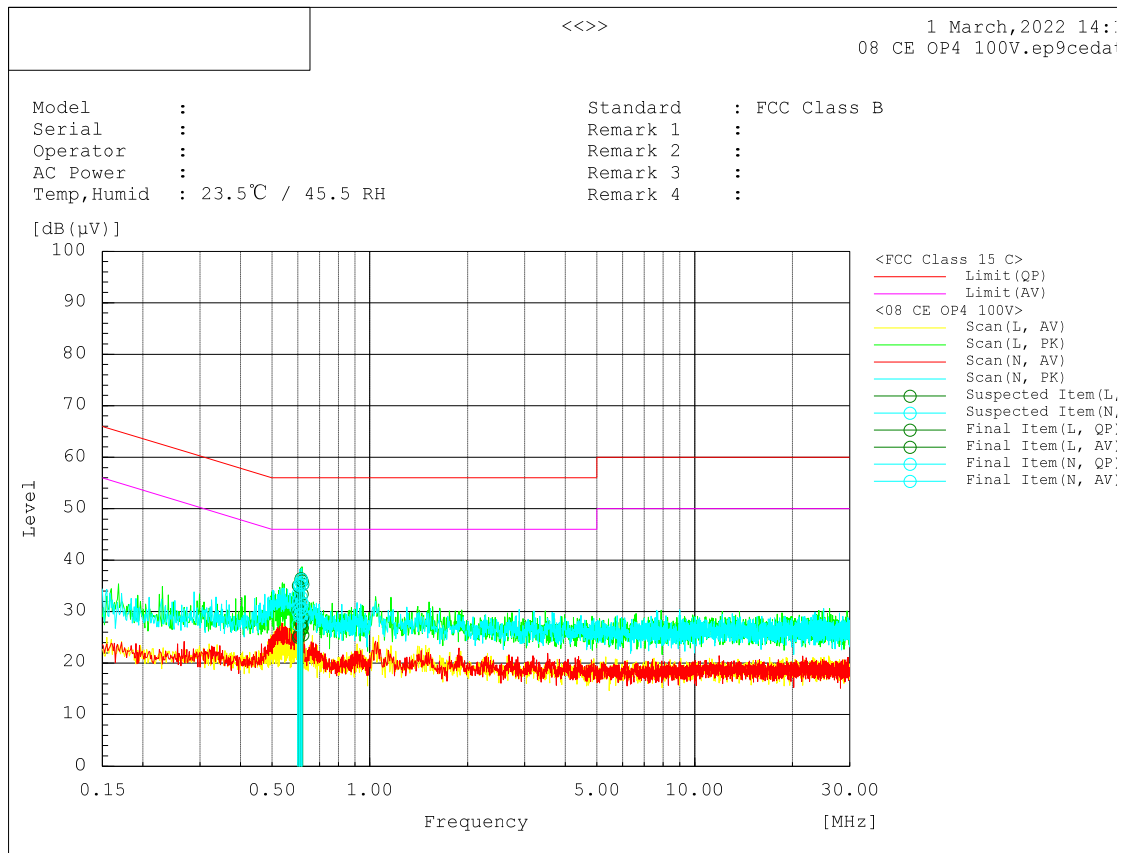
Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{Rpl} (dB)	Polarity
11586.800	---	58.75	---	41.85	54.00	12.15	-16.90	Vertical
14942.400	---	54.67	---	40.77	54.00	13.23	-13.90	Vertical
16651.200	---	56.80	---	43.30	54.00	10.70	-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)

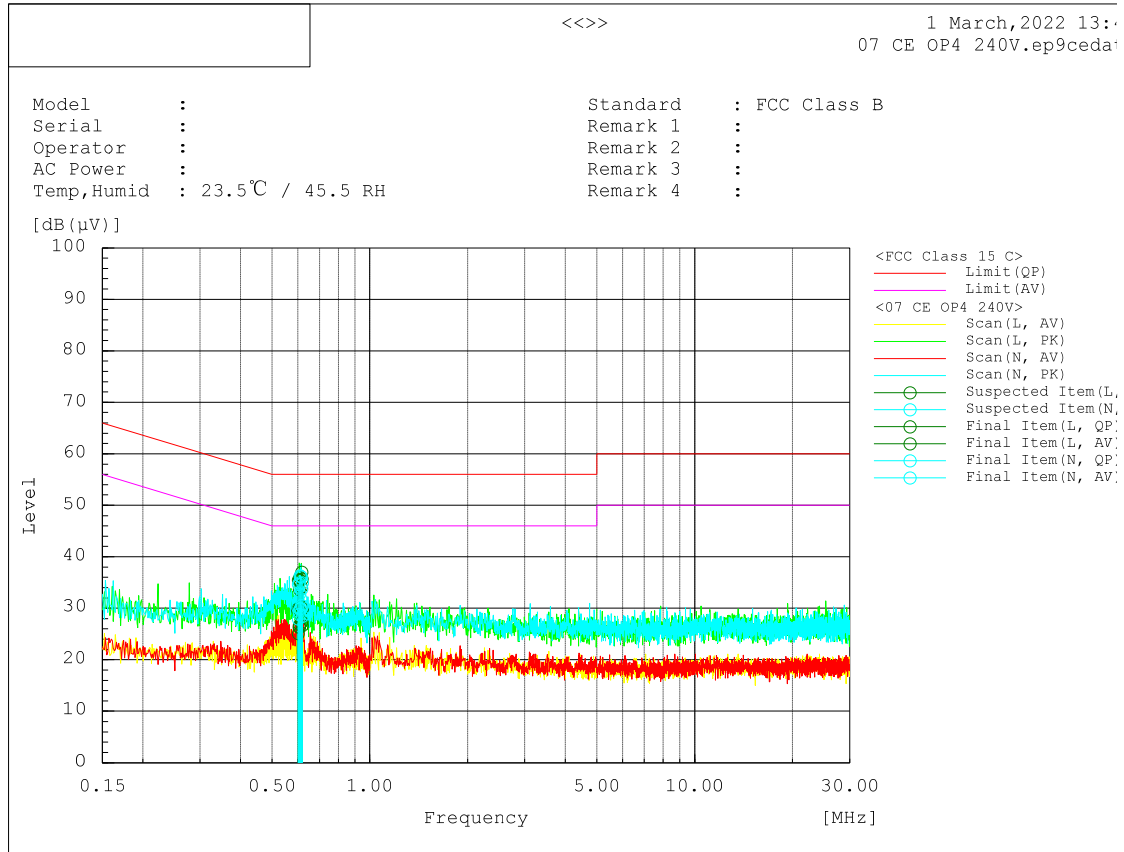


Frequency (MHz)	Reading MaxPeak (dBuV)	Reading Average (dBuV)	MaxPeak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	A _{RPI} (dB)	Polarity
7425.600	---	54.85	---	33.25	54.00	20.75	-21.60	Vertical
9168.000	---	51.02	---	30.82	54.00	23.18	-20.20	Vertical
11739.600	---	52.01	---	35.01	54.00	18.99	-17.00	Vertical
13470.400	---	51.99	---	36.89	54.00	17.11	-15.10	Vertical
14568.800	---	53.88	---	39.88	54.00	14.12	-14.00	Vertical
17568.000	---	52.47	---	40.57	54.00	13.43	-11.90	Vertical

AC Power line Conducted Emission



Range	Frequency MHz	Line	Reading dB(μV)			Factor dB	Level dB(μV)			Limit dB(μV)	Limit dB(μV)			Margin dB			Pass/Fail
			QP	AV	PK		QP	AV	PK		QP	AV	PK	QP	AV	PK	
Band1	0.6	L	15.1	5.5		19.9	35	25.4			56	46		21	20.6		Pass
Band1	0.6	L	15.1	5.1		19.9	35	25			56	46		21	21		Pass
Band1	0.61	L	16.6	7.6		19.9	36.5	27.5			56	46		19.5	18.5		Pass
Band1	0.61	L	16.4	7.7		19.9	36.3	27.6			56	46		19.7	18.4		Pass
Band1	0.62	L	15.5	5.6		19.9	35.4	25.5			56	46		20.6	20.5		Pass
Band1	0.62	L	16.1	6.9		19.9	36	26.8			56	46		20	19.2		Pass
Band1	0.6	N	13.6	7.6		19.9	33.5	27.5			56	46		22.5	18.5		Pass
Band1	0.61	N	15.4	9.6		19.9	35.3	29.5			56	46		20.7	16.5		Pass
Band1	0.61	N	15.2	9.2		19.9	35.1	29.1			56	46		20.9	16.9		Pass
Band1	0.61	N	15.9	11		19.9	35.8	30.4			56	46		20.2	15.6		Pass
Band1	0.62	N	16.4	11		19.9	36.3	30.6			56	46		19.7	15.4		Pass
Band1	0.62	N	15.3	9.6		19.9	35.2	29.5			56	46		20.8	16.5		Pass



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	0.6	N	14.8	8		19.9	34.7	27.9			56	46		21.3	18.1		Pass
Band1	0.61	N	15	8.9		19.9	34.9	28.8			56	46		21.1	17.2		Pass
Band1	0.61	N	16.4	9.9		19.9	36.3	29.8			56	46		19.7	16.2		Pass
Band1	0.61	N	16.4	10		19.9	36.3	30			56	46		19.7	16		Pass
Band1	0.62	N	16.2	11		19.9	36.1	30.6			56	46		19.9	15.4		Pass
Band1	0.62	N	15	8.6		19.9	34.9	28.5			56	46		21.1	17.5		Pass
Band1	0.6	L	15.6	5.2		19.9	35.5	25.1			56	46		20.5	20.9		Pass
Band1	0.61	L	15.7	6.6		19.9	35.6	26.5			56	46		20.4	19.5		Pass
Band1	0.61	L	15.7	6.4		19.9	35.6	26.3			56	46		20.4	19.7		Pass
Band1	0.61	L	16.1	6.9		19.9	36	26.8			56	46		20	19.2		Pass
Band1	0.62	L	15.8	6.7		19.9	35.7	26.6			56	46		20.3	19.4		Pass
Band1	0.62	L	17.1	7.5		19.9	37	27.4			56	46		19	18.6		Pass

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