

## APPENDIX B – TEST DATA OF RADIATED EMISSION

Note1: The worst channel results are reflected in the report.

Note2: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan

### **Radiated Emission Band Edge**

After comparison, the worst case attitude is EUT lay down.

Carrier frequency (MHz): 5180

Channel No.:36

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5180.0	47.74	94.64	N/A	N/A	12.40	34.50	Vertical
5150.0	17.96	64.86	-9.14	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5180.0	36.81	83.71	N/A	N/A	12.40	34.50	Vertical
5150.0	5.15	52.05	-1.95	54.00	12.40	34.50	Vertical

Carrier frequency (MHz):5240

Channel No.:48

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5240.0	27.80	74.70	N/A	N/A	12.40	34.50	Vertical
5250.0	18.89	65.79	-8.21	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5240.0	17.03	63.93	N/A	N/A	12.40	34.50	Vertical
5250.0	6.03	52.93	-1.07	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 5260

Channel No.:52

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5260.0	47.35	94.25	N/A	N/A	12.40	34.50	Vertical
5240.0	18.62	65.52	-8.48	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5260.0	36.02	82.92	N/A	N/A	12.40	34.50	Vertical
5240.0	5.60	52.50	-1.50	54.00	12.40	34.50	Vertical

Carrier frequency (MHz):5320

Channel No.:64

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5320.0	47.47	94.37	N/A	N/A	12.40	34.50	Vertical
5340.0	17.84	64.74	-9.26	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5320.0	36.26	83.16	N/A	N/A	12.40	34.50	Vertical
5340.0	5.36	52.26	-1.74	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 5500

Channel No.:100

Modulation Type: 802.11a

Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5500.0	47.69	94.59	N/A	N/A	12.40	34.50	Vertical
5480.0	17.64	64.54	-9.46	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5500.0	36.55	83.45	N/A	N/A	12.40	34.50	Vertical

5480.0	5.02	51.92	-2.08	54.00	12.40	34.50	Vertical
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Carrier frequency (MHz):5700

Channel No.:140

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5700.0	33.27	80.17	N/A	N/A	12.40	34.50	Vertical
5720.0	-0.31	46.59	-27.41	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5700.0	22.15	69.05	N/A	N/A	12.40	34.50	Vertical
5720.0	-13.04	33.86	-20.14	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 5745

Channel No.:149

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5745.0	32.15	79.05	N/A	N/A	12.40	34.50	Vertical
5725.0	1.38	48.28	-25.72	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5745.0	20.86	67.76	N/A	N/A	12.40	34.50	Vertical
5725.0	-12.21	34.69	-19.31	54.00	12.40	34.50	Vertical

Carrier frequency (MHz):5825

Channel No.:165

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5825.0	34.22	81.12	N/A	N/A	12.40	34.50	Vertical
5845.0	-0.63	46.27	-27.73	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5825.0	23.15	70.05	N/A	N/A	12.40	34.50	Vertical
5845.0	-12.75	34.15	-19.85	54.00	12.40	34.50	Vertical

Carrier frequency (MHz):5720

Channel No.:144

Modulation Type: 802.11a

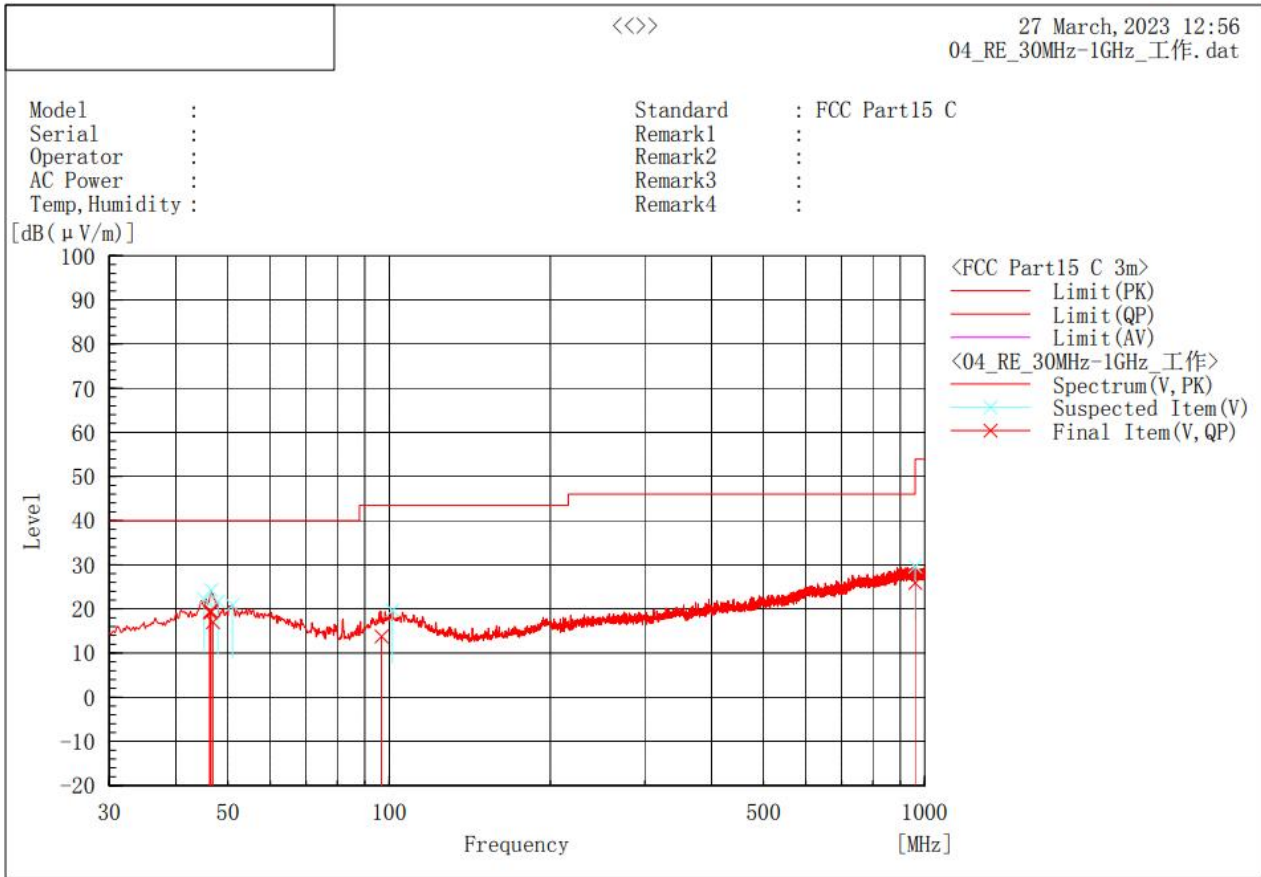
Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5720.0	33.21	80.11	N/A	N/A	12.40	34.50	Vertical
5850.0	-0.15	46.75	-27.25	74.00	12.40	34.50	Vertical

Dectector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5720.0	22.12	69.02	N/A	N/A	12.40	34.50	Vertical
5850.0	-12.75	34.15	-19.85	54.00	12.40	34.50	Vertical

**RE Sample Calculations**

After comparison,the worst case attitude is EUT lay down.

CH44

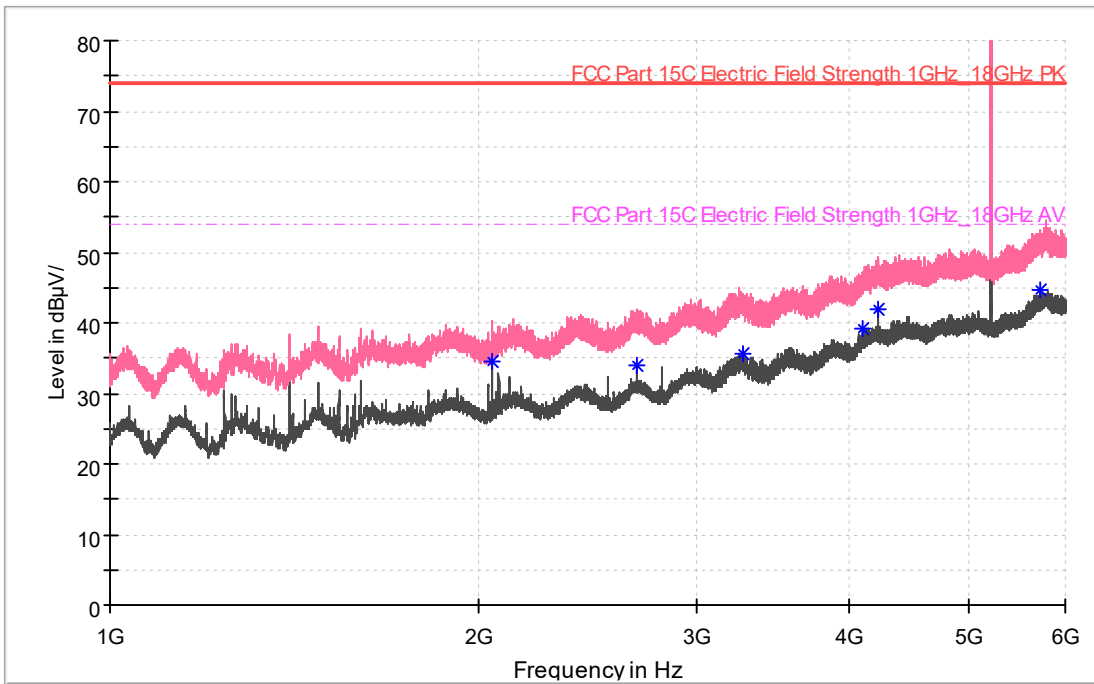


Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c. f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [°]	Remark
1	46.385	V	55.8	-36.3	19.5	40.0	20.5	101.0	359.1	
2	46.236	V	55.6	-36.3	19.3	40.0	20.7	399.0	359.1	
3	46.465	V	55.6	-36.3	19.3	40.0	20.7	101.0	356.6	
4	46.852	V	53.2	-36.2	17.0	40.0	23.0	201.0	162.9	
5	96.689	V	51.8	-38.0	13.8	43.5	29.7	399.0	244.4	
6	959.781	V	50.3	-24.4	25.9	46.0	20.1	142.0	27.8	

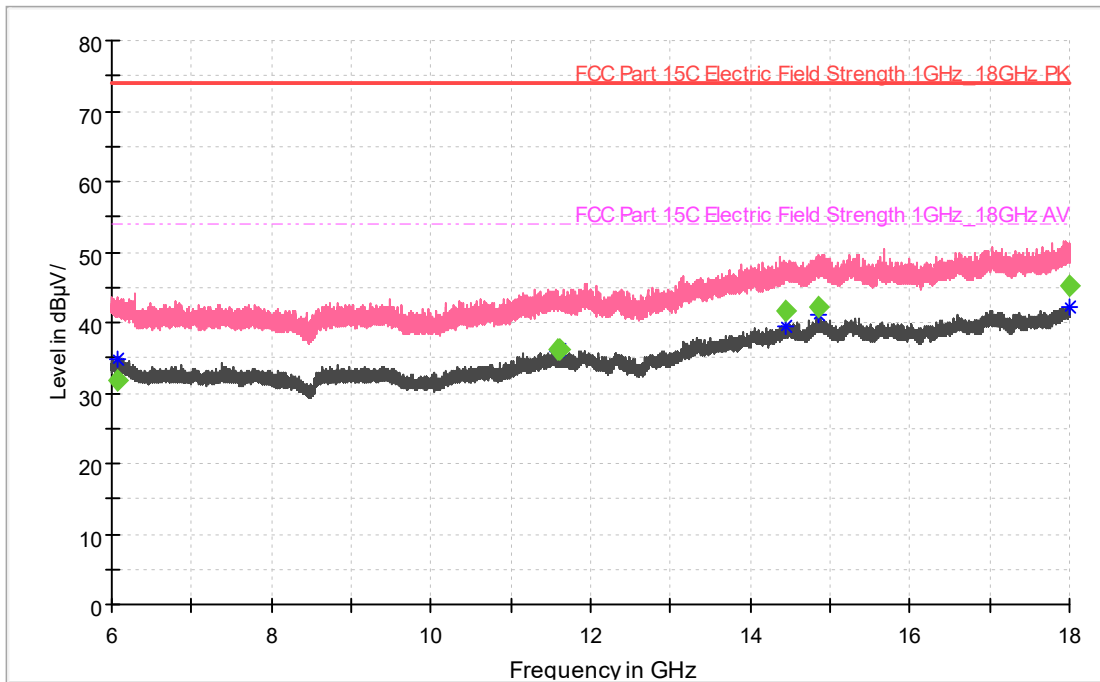
Frequency Range: 30MHz -1GHz

Full Spectrum



Frequency (MHz)	Reading (dBuV)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
2048.10	53.96	34.56	54.00	19.44	-19.40	Vertical
2688.00	51.20	34.00	54.00	20.00	-17.20	Vertical
3284.00	49.80	35.60	54.00	18.40	-14.20	Vertical
4096.10	50.27	39.27	54.00	14.73	-11.00	Vertical
4224.00	52.09	41.99	54.00	12.01	-10.10	Vertical
5720.10	50.16	44.66	54.00	9.34	-5.50	Vertical

Full Spectrum

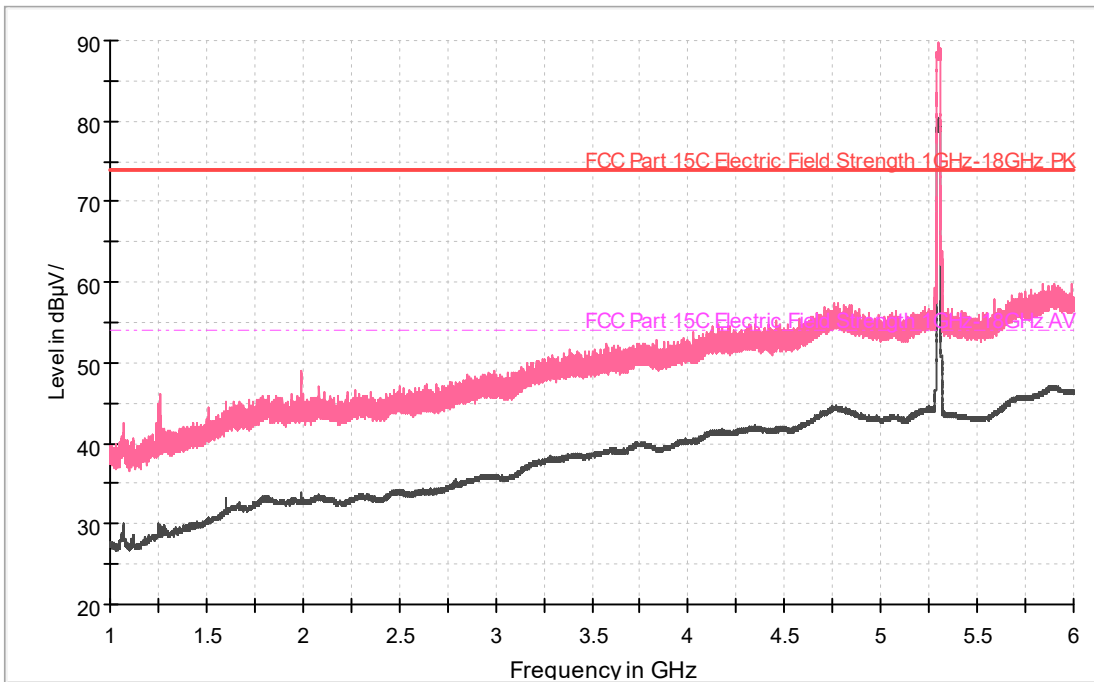


Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
6061.60	52.64	31.74	54.00	22.26	-20.90	Vertical
11588.40	53.47	36.27	54.00	17.73	-17.20	Vertical
11604.80	53.47	36.27	54.00	17.73	-17.20	Vertical
14440.80	55.73	41.53	54.00	12.47	-14.20	Vertical
14852.40	56.41	42.31	54.00	11.69	-14.10	Vertical
17992.00	55.41	45.21	54.00	8.79	-10.20	Vertical

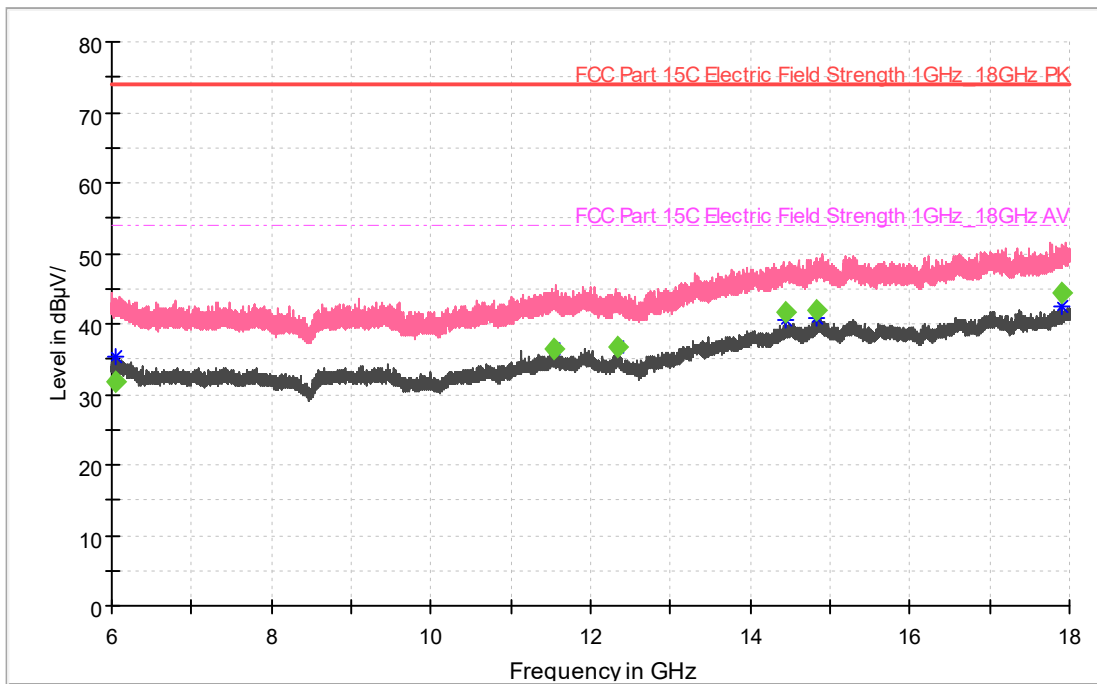
Frequency Range: 1GHz -18GHz

CH60

Full Spectrum



Full Spectrum



Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
6042.00	52.70	31.80	54.00	22.20	-20.90	Vertical
11539.20	53.53	36.33	54.00	17.67	-17.20	Vertical
12342.80	54.53	36.73	54.00	17.27	-17.80	Vertical
14440.00	55.77	41.57	54.00	12.43	-14.20	Vertical
14819.20	56.02	42.02	54.00	11.98	-14.00	Vertical

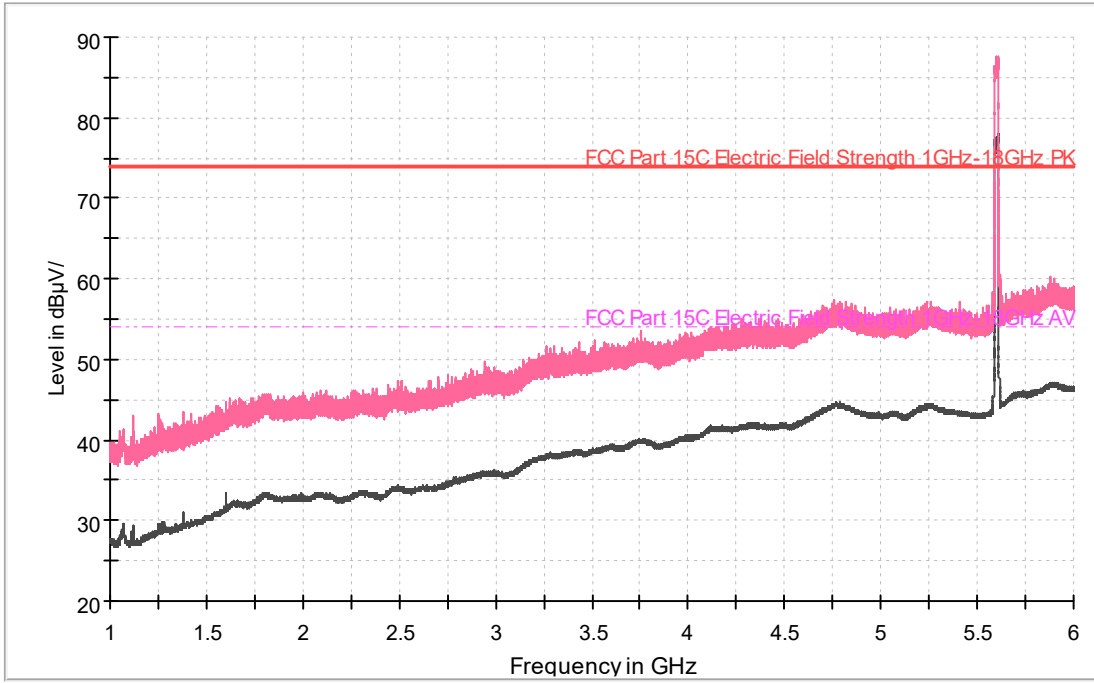


17915.20	55.18	44.48	54.00	9.52	-10.70	Vertical
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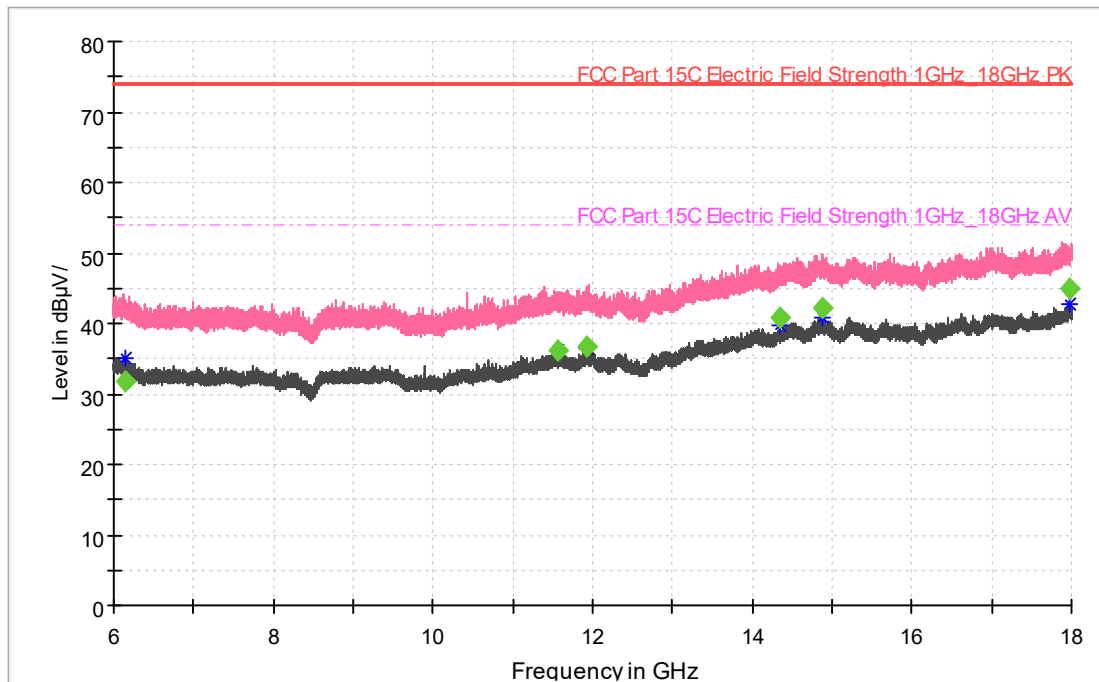
Frequency Range: 1GHz -18GHz

CH120

Full Spectrum



Full Spectrum



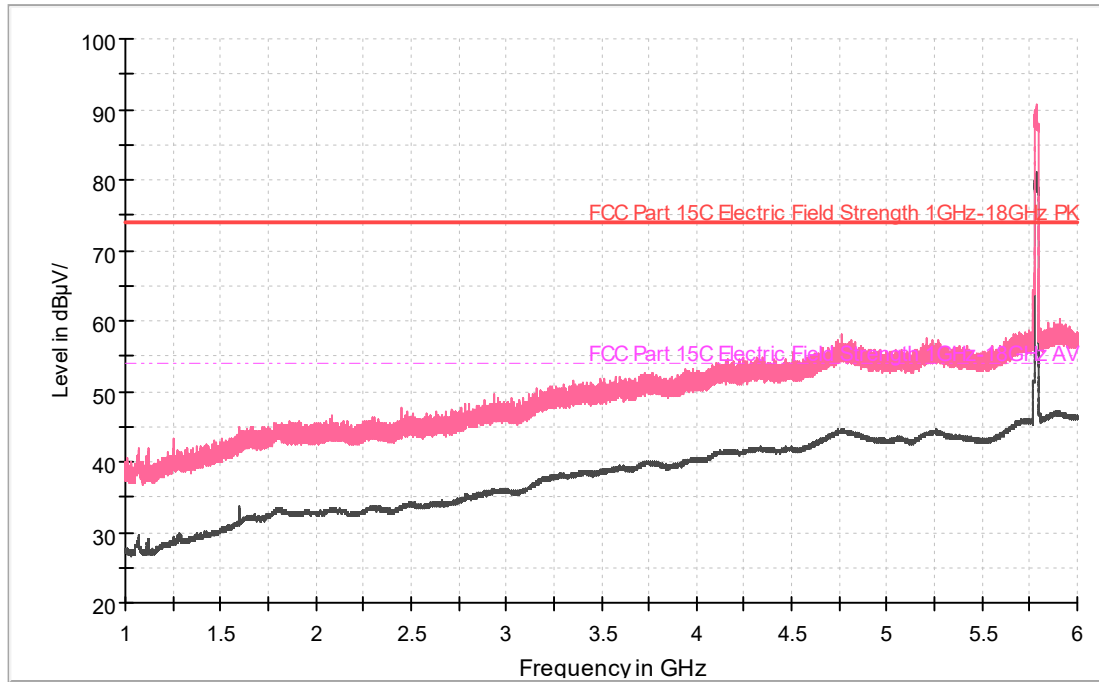
Frequency (MHz)	Reading (dBµV)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Arpl (dB)	Polarity
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6152.00	53.17	31.87	54.00	22.13	-21.30	Vertical
11575.20	53.48	36.28	54.00	17.72	-17.20	Vertical
11918.80	54.02	36.82	54.00	17.18	-17.20	Vertical
14334.80	55.14	40.84	54.00	13.16	-14.30	Vertical
14880.40	56.38	42.28	54.00	11.72	-14.10	Vertical
17967.60	55.43	45.03	54.00	8.97	-10.40	Vertical

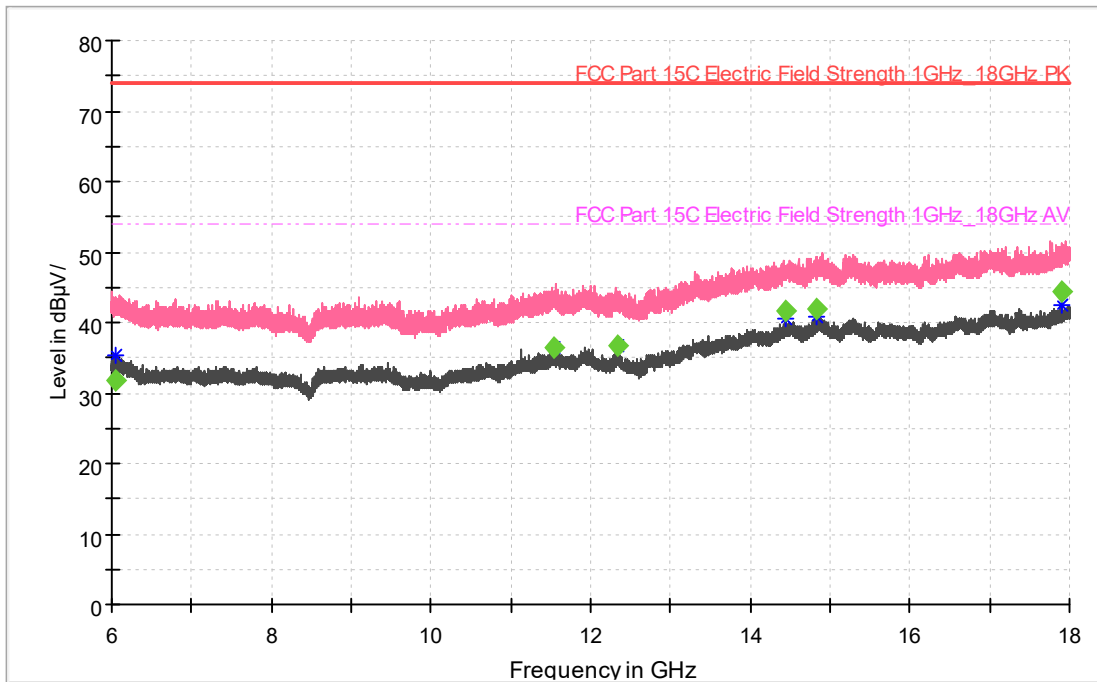
Frequency Range: 1GHz -18GHz

CH157

Full Spectrum



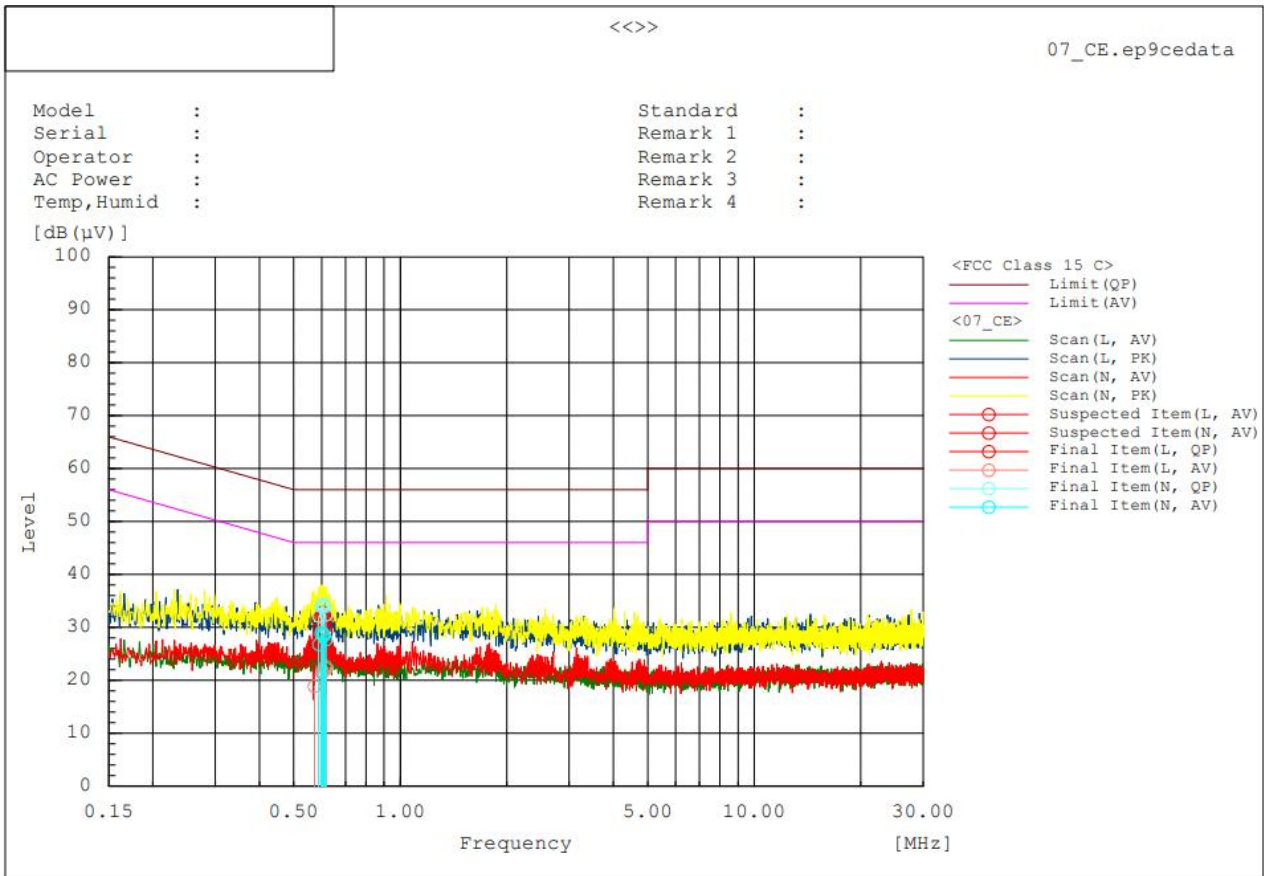
Full Spectrum



Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
6042.00	52.70	31.80	54.00	22.20	-20.90	Vertical
11539.20	53.53	36.33	54.00	17.67	-17.20	Vertical
12342.80	54.53	36.73	54.00	17.27	-17.80	Vertical
14440.00	55.77	41.57	54.00	12.43	-14.20	Vertical
14819.20	56.02	42.02	54.00	11.98	-14.00	Vertical
17915.20	55.18	44.48	54.00	9.52	-10.70	Vertical

Frequency Range: 1GHz -18GHz

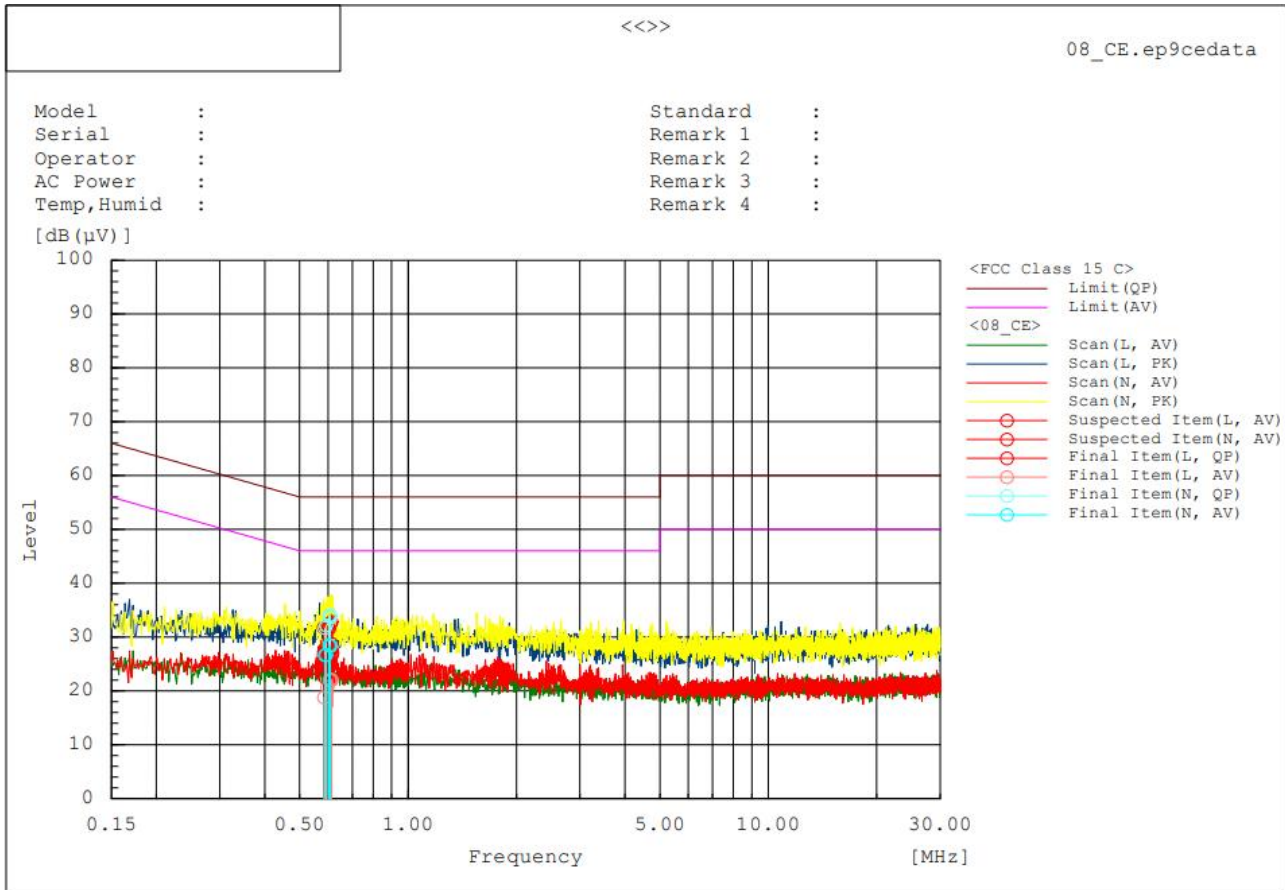
**AC Power line Conducted Emission**  
**MEASUREMENT RESULT:**  
**801.11a-5210MHz-100V**



**Final Result**

No.	Frequency [MHz]	Line	Reading		c.f [dB]	Result		Limit		Margin		Remar
			QP [dB(µV)]	AV [dB(µV)]		QP [dB(µV)]	AV [dB(µV)]	QP [dB(µV)]	AV [dB(µV)]			
1	0.572	L	3.6	-1.0	19.9	23.5	18.9	56.0	46.0	32.5	27.1	
2	0.600	L	7.0	1.5	19.9	26.9	21.4	56.0	46.0	29.1	24.6	
3	0.601	L	7.5	1.7	19.9	27.4	21.6	56.0	46.0	28.6	24.4	
4	0.602	L	7.2	1.8	19.9	27.1	21.7	56.0	46.0	28.9	24.3	
5	0.613	L	10.2	2.7	19.9	30.1	22.6	56.0	46.0	25.9	23.4	
6	0.615	L	9.3	2.3	19.9	29.2	22.2	56.0	46.0	26.8	23.8	
7	0.589	N	12.3	6.9	19.9	32.2	26.8	56.0	46.0	23.8	19.2	
8	0.598	N	14.1	9.0	19.9	34.0	28.9	56.0	46.0	22.0	17.1	
9	0.605	N	14.5	8.9	19.9	34.4	28.8	56.0	46.0	21.6	17.2	
10	0.605	N	14.3	8.7	19.9	34.2	28.6	56.0	46.0	21.8	17.4	
11	0.608	N	14.0	8.5	19.9	33.9	28.4	56.0	46.0	22.1	17.6	
12	0.615	N	12.5	7.8	19.9	32.4	27.7	56.0	46.0	23.6	18.3	

**801.11a-5210MHz-240V**



Final Result

No.	Frequency [MHz]	Line	Reading		c.f [dB]	Result		Limit		Margin		Remark
			QP [dB (µV)]	AV [dB (µV)]		QP [dB (µV)]	AV [dB (µV)]	QP [dB (µV)]	AV [dB (µV)]	QP [dB]	AV [dB]	
1	0.586	N	11.8	6.8	19.9	31.7	26.7	56.0	46.0	24.3	19.3	
2	0.591	N	12.3	6.8	19.9	32.2	26.7	56.0	46.0	23.8	19.3	
3	0.603	N	14.2	8.7	19.9	34.1	28.6	56.0	46.0	21.9	17.4	
4	0.607	N	14.2	8.5	19.9	34.1	28.4	56.0	46.0	21.9	17.6	
5	0.607	N	14.1	8.5	19.9	34.0	28.4	56.0	46.0	22.0	17.6	
6	0.609	N	13.8	8.5	19.9	33.7	28.4	56.0	46.0	22.3	17.6	
7	0.584	L	2.8	-1.1	19.9	22.7	18.8	56.0	46.0	33.3	27.2	
8	0.595	L	5.7	0.8	19.9	25.6	20.7	56.0	46.0	30.4	25.3	
9	0.605	L	7.7	2.1	19.9	27.6	22.0	56.0	46.0	28.4	24.0	
10	0.608	L	7.9	2.1	19.9	27.8	22.0	56.0	46.0	28.2	24.0	
11	0.612	L	7.8	2.2	19.9	27.7	22.1	56.0	46.0	28.3	23.9	
12	0.612	L	8.8	2.1	19.9	28.7	22.0	56.0	46.0	27.3	24.0	

---End of Test Report---