

## 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

Note3: After comparison, the worst case attitude is EUT lay down.

Note4: According to PSD comparison, the worst case for 11a and 11ax full RU is 11a, so 11a results are reflected in the report.

Note5: According to PSD comparison, the worst case for 11ax partial RU and 11ax full RU is 11ax partial RU, so 11ax partial RU results are reflected in the report.

Note6: According to PSD comparison, the worst case for 11ax partial RU is 26 Tone, so 26 Tone results are reflected in the report.

### **Radiated Emission Band Edge**

Carrier frequency (MHz): 5955

Channel No.: 1

Modulation Type: 802.11a

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5955.0	26.00	72.90	N/A	N/A	12.40	34.50	Vertical
5925.0	-2.50	44.40	-29.60	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
5955.0	14.30	61.20	N/A	N/A	12.40	34.50	Vertical
5925.0	-15.70	31.20	-22.80	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 6415

Channel No.: 93

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
6415.0	27.00	73.90	N/A	N/A	12.40	34.50	Vertical
6425.0	14.40	61.30	-12.70	74.00	12.40	34.50	Vertical

Dectector: Average							
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Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
6415.0	15.60	62.50	N/A	N/A	12.40	34.50	Vertical
6425.0	-2.90	44.00	-10.00	54.00	12.40	34.50	Vertical

### PartialRU

Carrier frequency (MHz): 5955

Channel No.:1

Modulation Type: 802.11ax

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5955.0	37.65	84.55	N/A	N/A	12.40	34.50	Vertical
5925.0	20.92	67.82	-6.18	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
5955.0	26.08	72.98	N/A	N/A	12.40	34.50	Vertical
5925.0	5.36	52.26	-1.74	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 6415

Channel No.:93

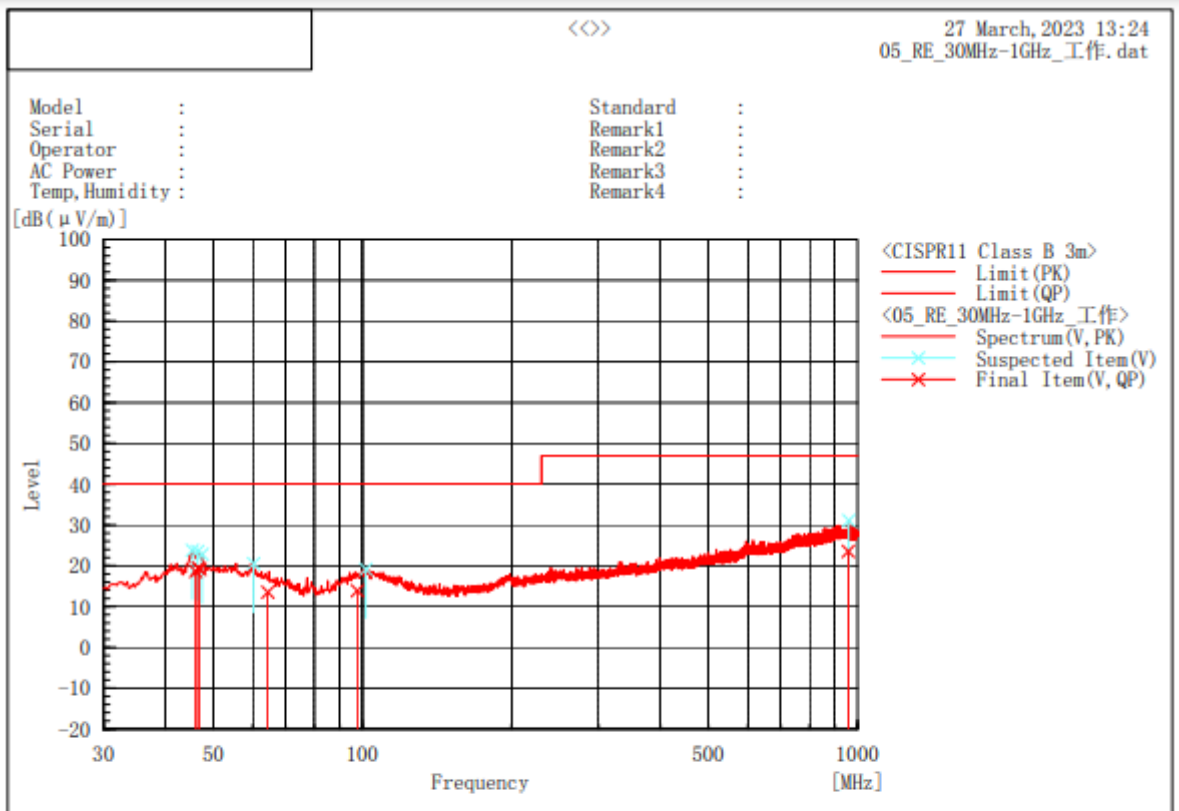
Modulation Type: 802.11ax

Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
6415.0	38.62	85.52	N/A	N/A	12.40	34.50	Vertical
6425.0	25.51	72.41	-1.59	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
6415.0	28.69	75.59	N/A	N/A	12.40	34.50	Vertical
6425.0	3.33	50.23	-3.77	54.00	12.40	34.50	Vertical

**RE Sample Calculations**

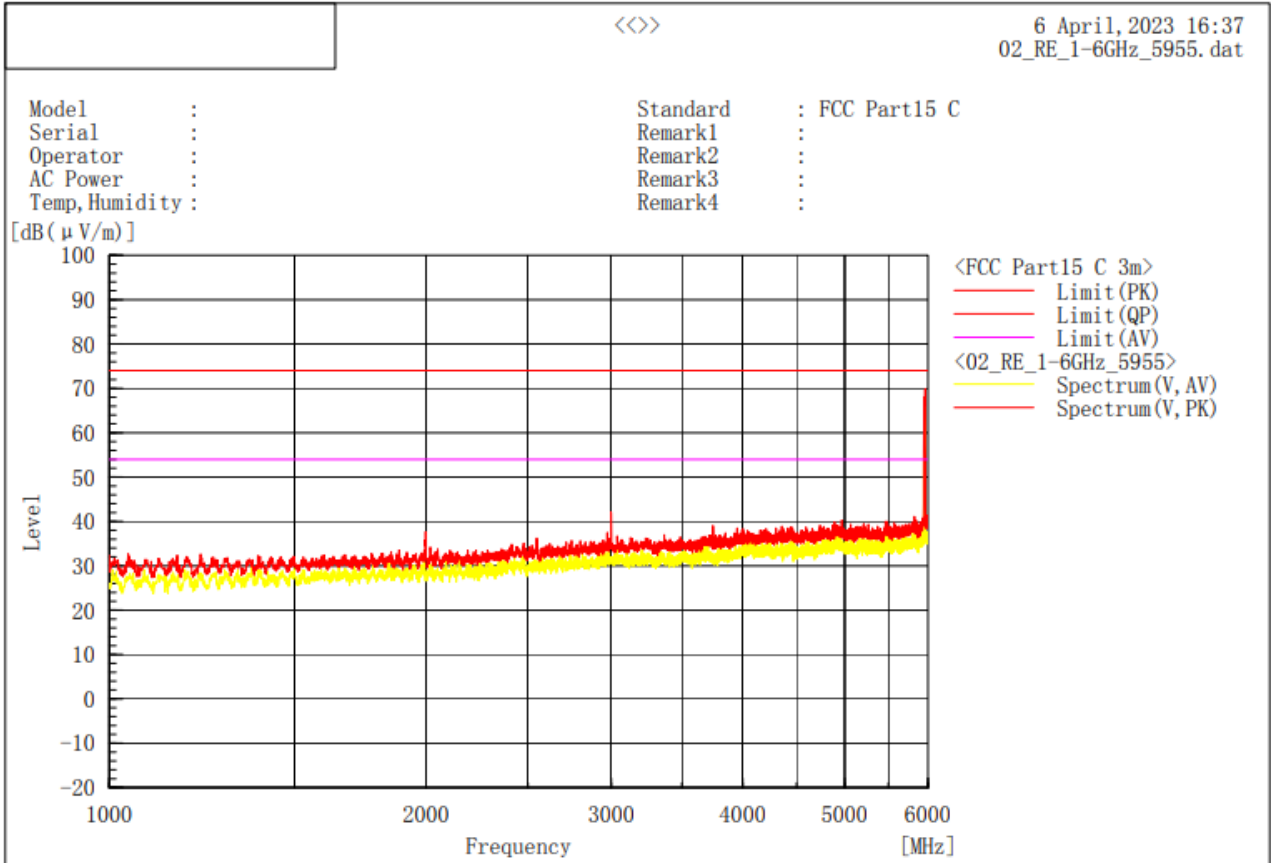
CH44

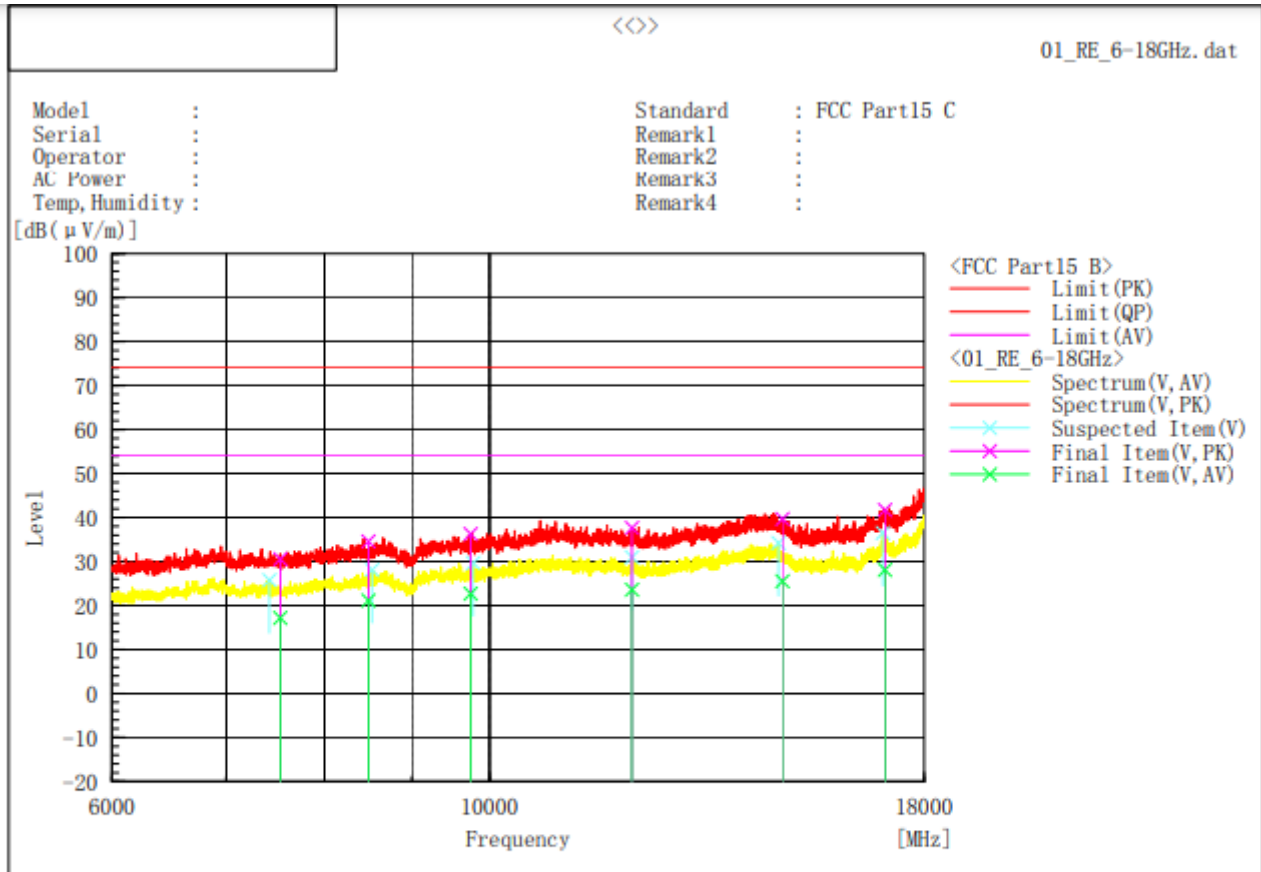


Final Result

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	46.073	V	55.0	-36.4	18.6	40.0	21.4	399.0	292.0	
2	46.586	V	55.8	-36.3	19.5	40.0	20.5	398.0	195.7	
3	46.974	V	55.4	-36.2	19.2	40.0	20.8	399.0	357.0	
4	64.382	V	52.0	-38.4	13.6	40.0	26.4	246.0	356.3	
5	97.624	V	51.7	-37.8	13.9	40.0	26.1	312.0	282.4	
6	957.080	V	47.9	-24.4	23.5	47.0	23.5	399.0	315.7	

Frequency Range: 30MHz -1GHz





Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(μV)]	Reading AV [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Result AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Margin PK [dB]	Margin AV [dB]	Height [cm]	Angle [°]	Remark
1	7532.601	V	43.7	30.3	-13.1	30.6	17.2	74.0	54.0	43.4	36.8	119.8	244.4	
2	8487.158	V	46.3	32.9	-11.7	34.6	21.2	74.0	54.0	39.4	32.8	119.8	70.6	
3	9746.447	V	45.8	32.2	-9.5	36.3	22.7	74.0	54.0	37.7	31.3	119.8	168.0	
4	12119.840	V	45.6	31.6	-8.0	37.6	23.6	74.0	54.0	36.4	30.4	119.4	239.5	
5	14856.220	V	46.9	32.7	-7.2	39.7	25.5	74.0	54.0	34.3	28.5	120.0	359.3	
6	17067.810	V	46.5	32.8	-4.7	41.8	28.1	74.0	54.0	32.2	25.9	120.6	302.7	

Frequency Range: 6GHz -18GHz

Note: 18-40GHz, all noise floor, no abnormal points.

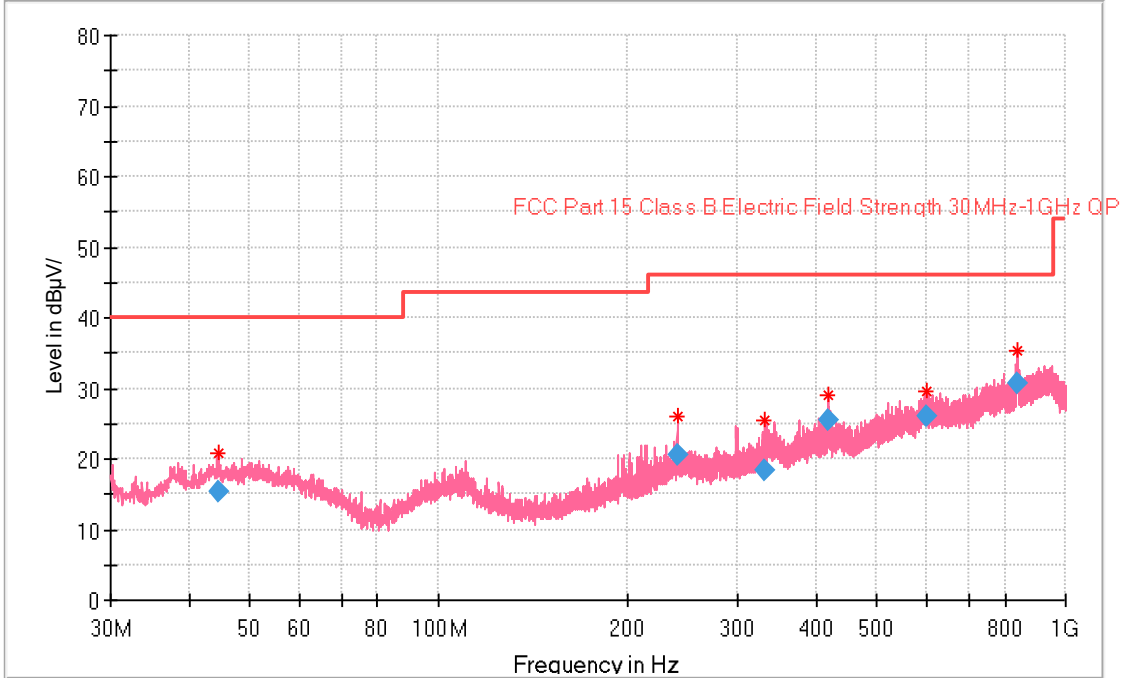
**11axPartialRU**

**RE Sample Calculations**

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

CH1

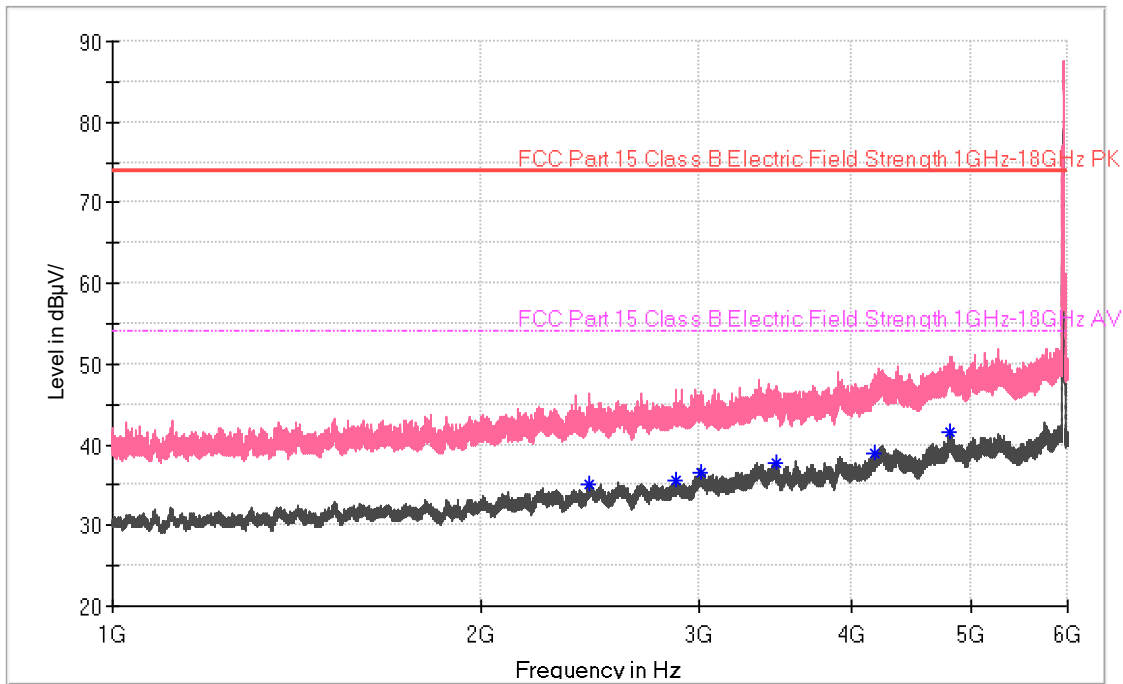
Full Spectrum



Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
44.66	51.57	15.47	40.00	24.53	-36.10	Vertical
240.22	55.99	20.49	46.00	25.51	-35.50	Vertical
331.51	50.44	18.34	46.00	27.66	-32.10	Vertical
418.54	55.04	25.54	46.00	20.46	-29.50	Vertical
599.82	50.52	26.02	46.00	19.98	-24.50	Vertical
840.11	52.82	30.72	46.00	15.28	-22.10	Vertical

Frequency Range: 30MHz -1GHz

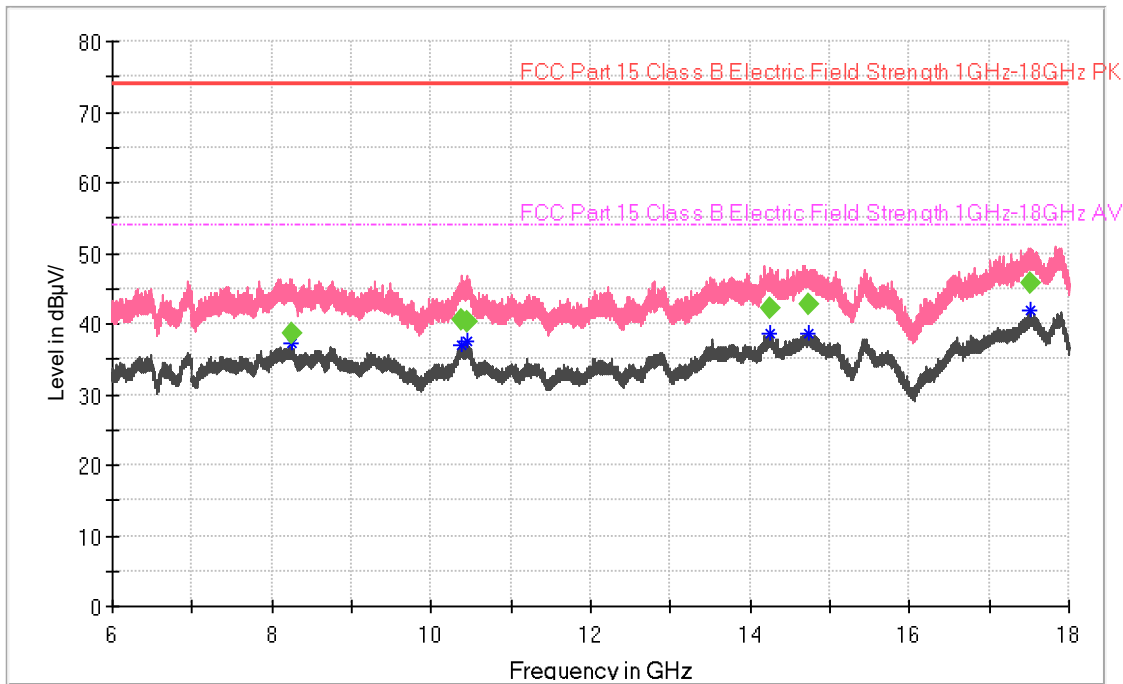
Full Spectrum



Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
2448.30	51.05	35.05	54.00	18.95	-16.00	Vertical
2873.20	51.35	35.65	54.00	18.35	-15.70	Vertical
3012.10	51.60	36.60	54.00	17.40	-15.00	Vertical
3468.30	52.24	37.84	54.00	16.16	-14.40	Vertical
4181.80	52.41	39.01	54.00	14.99	-13.40	Vertical
4819.30	52.78	41.48	54.00	12.52	-11.30	Vertical

Frequency Range: 1GHz -6GHz

Full Spectrum



Frequency (MHz)	Reading (dBµV)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Arpl (dB)	Polarity
8247.20	51.95	38.55	54.00	15.45	-13.40	Vertical
10379.20	52.75	40.45	54.00	13.55	-12.30	Vertical
10444.80	52.35	40.25	54.00	13.75	-12.10	Vertical
14250.80	52.79	42.19	54.00	11.81	-10.60	Vertical
14744.40	54.10	42.70	54.00	11.30	-11.40	Vertical
17519.20	53.85	45.65	54.00	8.35	-8.20	Vertical

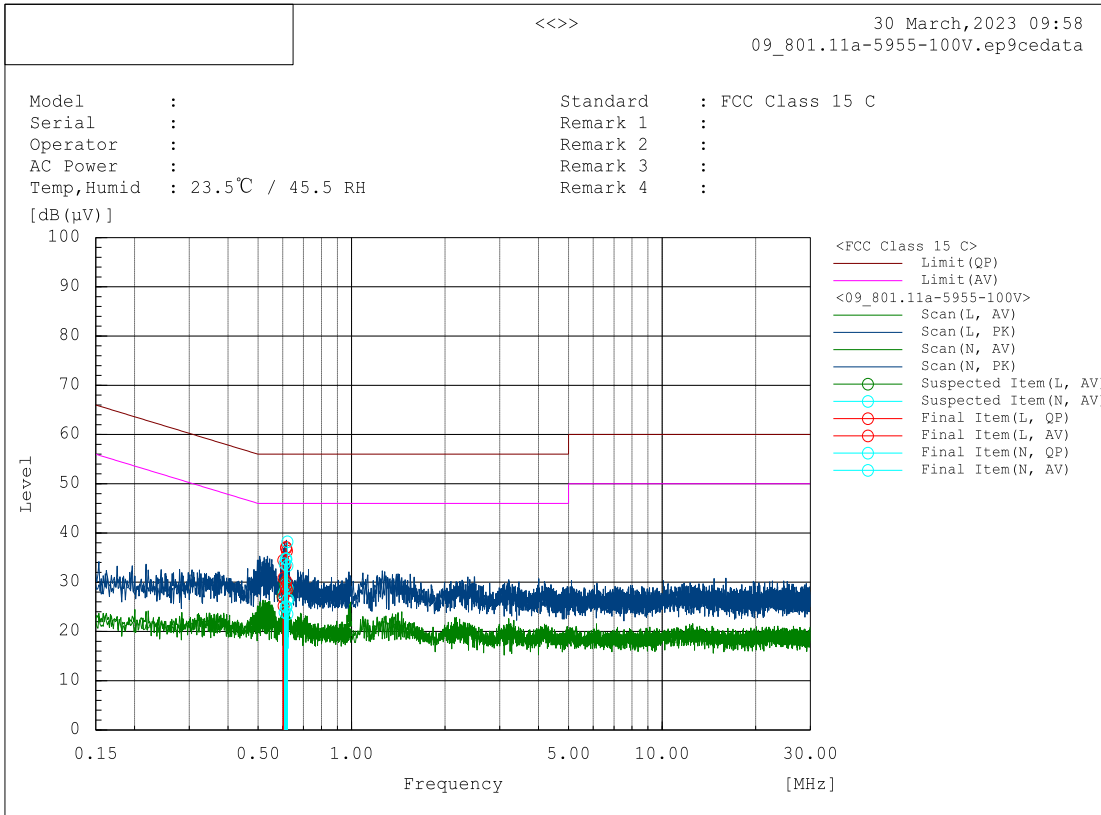
Frequency Range: 6GHz -18GHz

Note: 18-40GHz, all noise floor, no abnormal points.

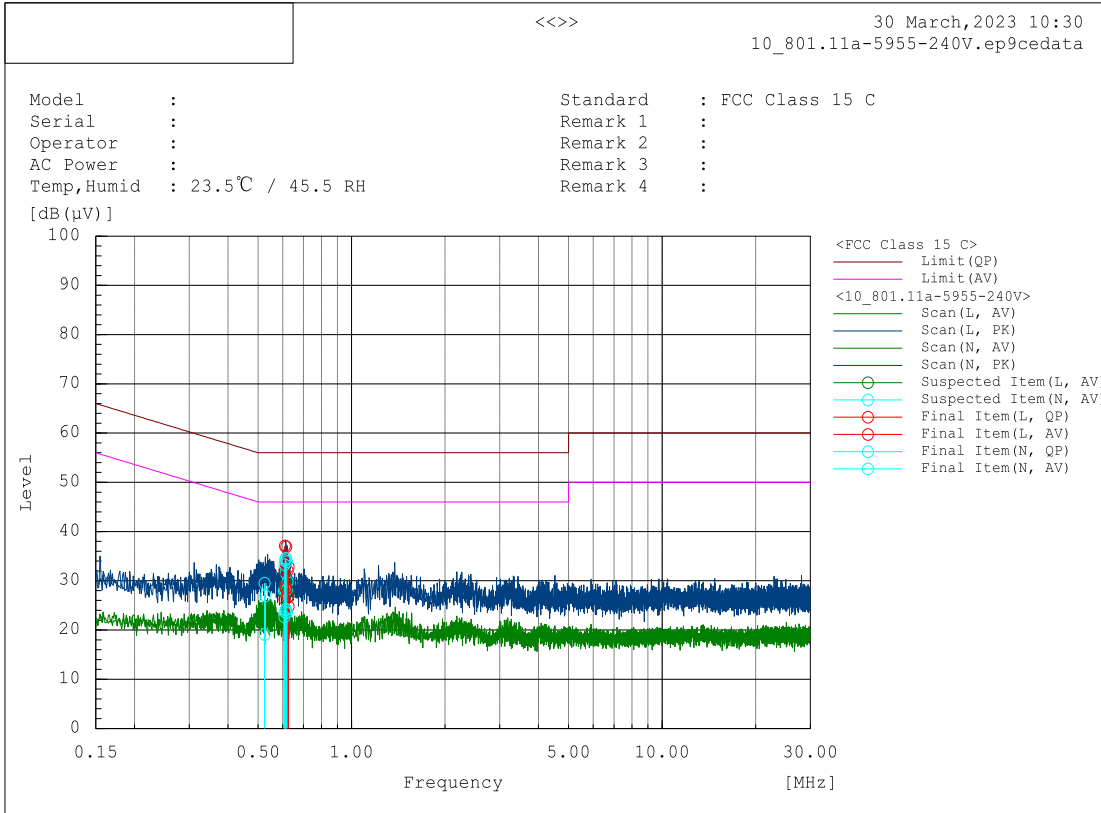


### AC Power line Conducted Emission

#### MEASUREMENT RESULT:



Range	Frequency MHz	Line	Reading			Factor	Level			Limit	Limit			Margin			Pass/Fail	Remark
			dB(μV)				dB	dB(μV)			dB(μV)	dB(μV)			dB			
			QP	AV	PK			QP	AV			PK	QP	AV		PK		
Band1	0.604	L	11	5.3		19.9	30.9	25.2		56	46		25.1	20.8		Pass		
Band1	0.603	L	14.6	7.1		19.9	34.5	27		56	46		21.5	19		Pass		
Band1	0.612	L	13.6	8.1		19.9	33.5	28		56	46		22.5	18		Pass		
Band1	0.615	L	17.2	9.3		19.9	37.1	29.2		56	46		18.9	16.8		Pass		
Band1	0.616	L	17	10.3		19.9	36.9	30.2		56	46		19.1	15.8		Pass		
Band1	0.619	L	16.4	8.6		19.9	36.3	28.5		56	46		19.7	17.5		Pass		
Band1	0.608	N	13.9	4		19.9	33.8	23.9		56	46		22.2	22.1		Pass		
Band1	0.613	N	14.9	5.1		19.9	34.8	25		56	46		21.2	21		Pass		
Band1	0.614	N	14.9	5.2		19.9	34.8	25.1		56	46		21.2	20.9		Pass		
Band1	0.617	N	14.8	5.1		19.9	34.7	25		56	46		21.3	21		Pass		
Band1	0.621	N	18.3	6.6		19.9	38.2	26.5		56	46		17.8	19.5		Pass		
Band1	0.621	N	13.4	3.7		19.9	33.3	23.6		56	46		22.7	22.4		Pass		



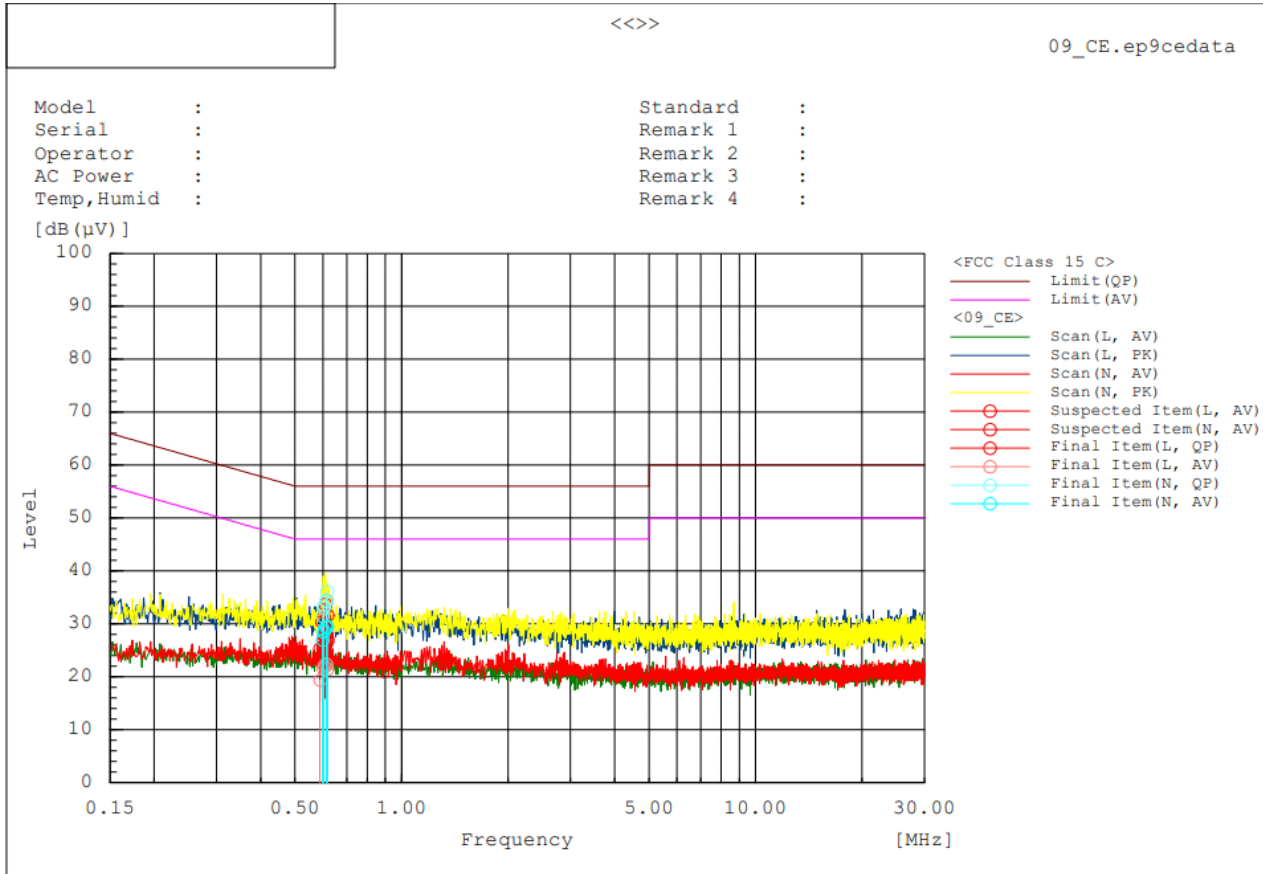
Range	Frequency MHz	Line	Reading			Factor	Level			Limit			Margin			Pass/Fail	Remark	
			dB(μV)				dB	dB(μV)			dB(μV)			dB				
			QP	AV	PK			QP	AV	PK	QP	AV	PK	QP	AV			PK
Band1	0.525	N	9.6	-0.8		19.9	29.5	19.1			56	46		26.5	26.9	Pass		
Band1	0.607	N	13.4	2.8		19.9	33.3	22.7			56	46		22.7	23.3	Pass		
Band1	0.613	N	14.6	4.2		19.9	34.5	24.1			56	46		21.5	21.9	Pass		
Band1	0.61	N	14.2	3.8		19.9	34.1	23.7			56	46		21.9	22.3	Pass		
Band1	0.614	N	14.7	4.3		19.9	34.6	24.2			56	46		21.4	21.8	Pass		
Band1	0.619	N	14	3.6		19.9	33.9	23.5			56	46		22.1	22.5	Pass		
Band1	0.607	L	12.2	6.4		19.9	32.1	26.3			56	46		23.9	19.7	Pass		
Band1	0.609	L	17.2	9		19.9	37.1	28.9			56	46		18.9	17.1	Pass		
Band1	0.614	L	13.7	8.5		19.9	33.6	28.4			56	46		22.4	17.6	Pass		
Band1	0.616	L	17	8.5		19.9	36.9	28.4			56	46		19.1	17.6	Pass		
Band1	0.622	L	12.1	6.7		19.9	32	26.6			56	46		24	19.4	Pass		
Band1	0.626	L	12.9	4.9		19.9	32.8	24.8			56	46		23.2	21.2	Pass		

# 11axPartialRU

## AC Power line Conducted Emission

### MEASUREMENT RESULT:

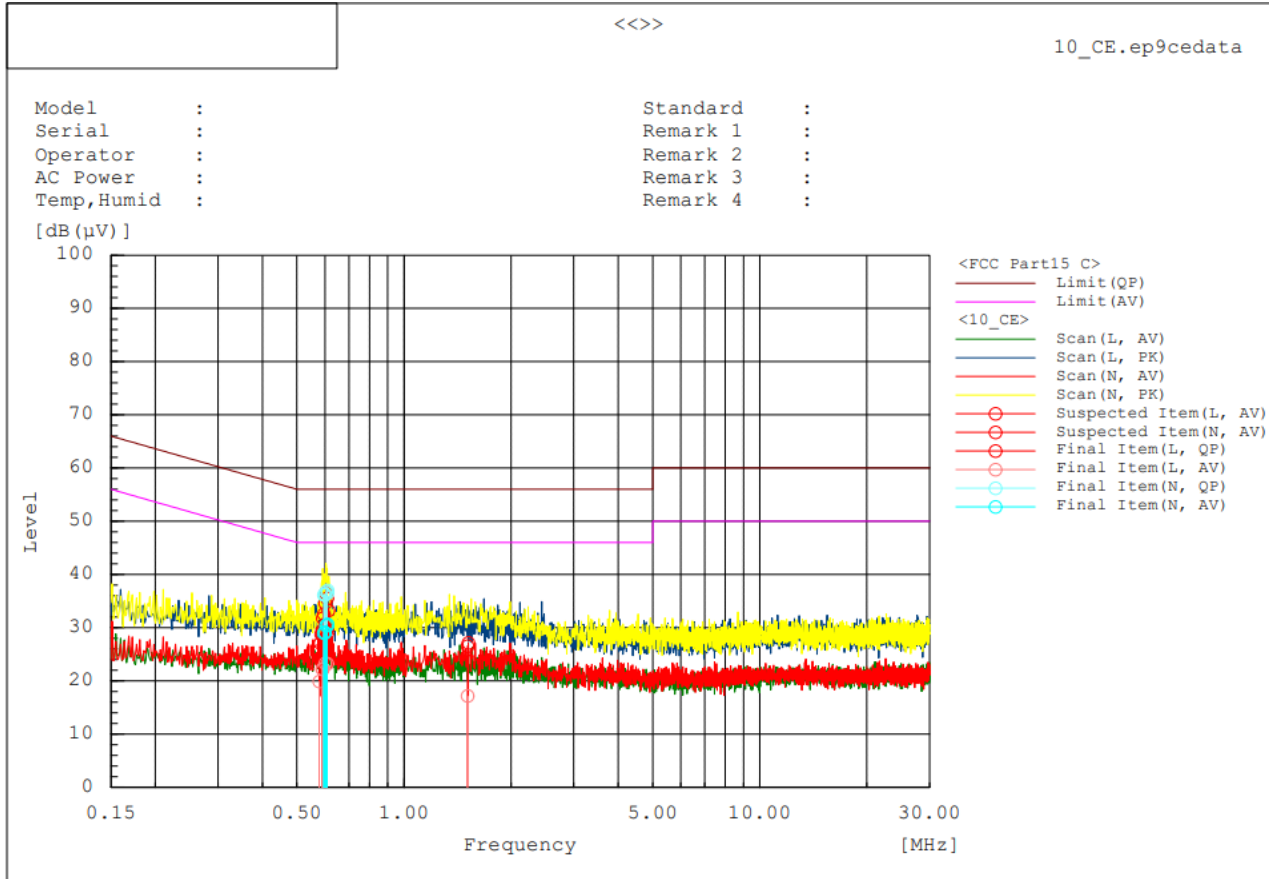
#### 11ax-5955MHZ-100V



#### 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)]	QP [dB]	AV [dB]	
1	0.589	L	3.5	-0.5	19.9	23.4	19.4	56.0	46.0	32.6	26.6	
2	0.604	L	7.8	2.2	19.9	27.7	22.1	56.0	46.0	28.3	23.9	
3	0.601	L	7.0	1.7	19.9	26.9	21.6	56.0	46.0	29.1	24.4	
4	0.611	L	8.2	2.5	19.9	28.1	22.4	56.0	46.0	27.9	23.6	
5	0.617	L	6.8	1.5	19.9	26.7	21.4	56.0	46.0	29.3	24.6	
6	0.614	L	8.1	2.3	19.9	28.0	22.2	56.0	46.0	28.0	23.8	
7	0.598	N	11.5	7.1	19.9	31.4	27.0	56.0	46.0	24.6	19.0	
8	0.604	N	13.4	8.8	19.9	33.3	28.7	56.0	46.0	22.7	17.3	
9	0.602	N	13.0	8.5	19.9	32.9	28.4	56.0	46.0	23.1	17.6	
10	0.612	N	14.3	9.5	19.9	34.2	29.4	56.0	46.0	21.8	16.6	
11	0.612	N	14.5	9.5	19.9	34.4	29.4	56.0	46.0	21.6	16.6	
12	0.616	N	16.2	9.6	19.9	36.1	29.5	56.0	46.0	19.9	16.5	

**11ax-5955MHz-240V**



Final Result

No.	Frequency [MHz]	Line	Reading QP [dB (µV)]	Reading AV [dB (µV)]	c.f [dB]	Result QP [dB (µV)]	Result AV [dB (µV)]	Limit QP [dB (µV)]	Limit AV [dB (µV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.595	N	16.2	9.1	19.9	36.1	29.0	56.0	46.0	19.9	17.0	
2	0.599	N	16.4	9.2	19.9	36.3	29.1	56.0	46.0	19.7	16.9	
3	0.599	N	16.3	9.2	19.9	36.2	29.1	56.0	46.0	19.8	16.9	
4	0.603	N	16.8	10.5	19.9	36.7	30.4	56.0	46.0	19.3	15.6	
5	0.610	N	16.7	10.5	19.9	36.6	30.4	56.0	46.0	19.4	15.6	
6	0.609	N	17.1	10.7	19.9	37.0	30.6	56.0	46.0	19.0	15.4	
7	0.577	L	5.8	0.0	19.9	25.7	19.9	56.0	46.0	30.3	26.1	
8	0.589	L	9.6	2.4	19.9	29.5	22.3	56.0	46.0	26.5	23.7	
9	0.591	L	9.6	2.3	19.9	29.5	22.2	56.0	46.0	26.5	23.8	
10	0.600	L	10.7	3.4	19.9	30.6	23.3	56.0	46.0	25.4	22.7	
11	0.608	L	9.9	3.3	19.9	29.8	23.2	56.0	46.0	26.2	22.8	
12	1.509	L	6.6	-2.7	19.9	26.5	17.2	56.0	46.0	29.5	28.8	

---End of Test Report---