

## 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 52 Tone, so 52 Tone results are reflected in the report.

### Radiated Emission Band Edge

Carrier frequency (MHz): 5955

Channel No.: 1

Modulation Type: 802.11a

Detector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5955.0	34.39	81.29	N/A	N/A	12.40	34.50	Vertical
5925.0	0.89	47.79	-26.21	74.00	12.40	34.50	Vertical

Detector: Average							
Frequency (MHz)	Reading Average (dBuV)	Average (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
5955.0	23.03	69.93	N/A	N/A	12.40	34.50	Vertical
5925.0	-12.34	34.56	-19.44	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 6415

Channel No.: 93

Modulation Type: 802.11a

Detector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
6415.0	30.10	77.00	N/A	N/A	12.40	34.50	Vertical
6425.0	18.88	65.78	-8.22	74.00	12.40	34.50	Vertical

Detector: Average							
Frequency	Reading Average	Average	Over Limit	Limit	Cable Loss	Antenna Factor	Polarity

(MHz)	(dBuV)	(dBuV/m)	(dB)	(dBuV/m)	(dB)	(dB)	
6415.0	18.60	65.50	N/A	N/A	12.40	34.50	Vertical
6425.0	5.91	52.81	-1.19	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	45.03	91.93	N/A	N/A	12.40	34.50	Vertical
5925.0	21.12	68.02	-5.98	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	33.69	80.59	N/A	N/A	12.40	34.50	Vertical
5925.0	5.49	52.39	-1.61	54.00	12.40	34.50	Vertical

Carrier frequency (MHz): 6415

Channel No.:93

Modulation Type: 802.11ax

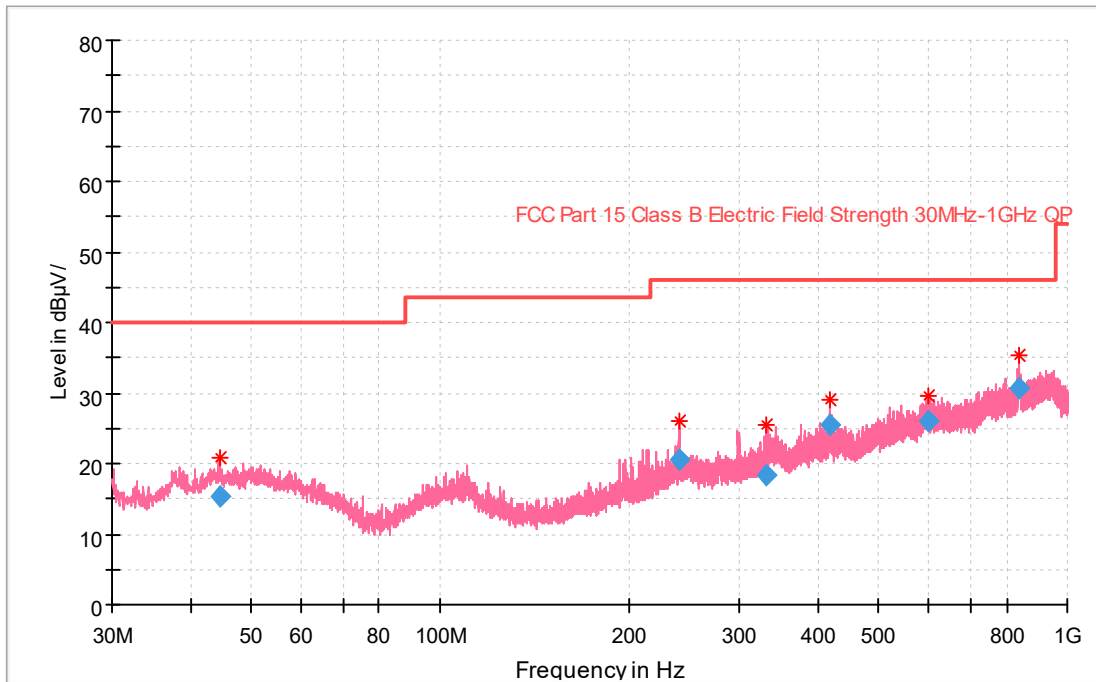
Dectector: Peak							
Frequency (MHz)	Reading MaxPeak (dBuV)	MaxPeak (dBuV/m)	Over Limt (dB)	Limit (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB)	Polarity
6415.0	36.53	83.43	N/A	N/A	12.40	34.50	Vertical
6425.0	26.59	73.49	-0.51	74.00	12.40	34.50	Vertical

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	24.83	71.73	N/A	N/A	12.40	34.50	Vertical
6425.0	6.01	52.91	-1.09	54.00	12.40	34.50	Vertical

**RE Sample Calculations**

CH1

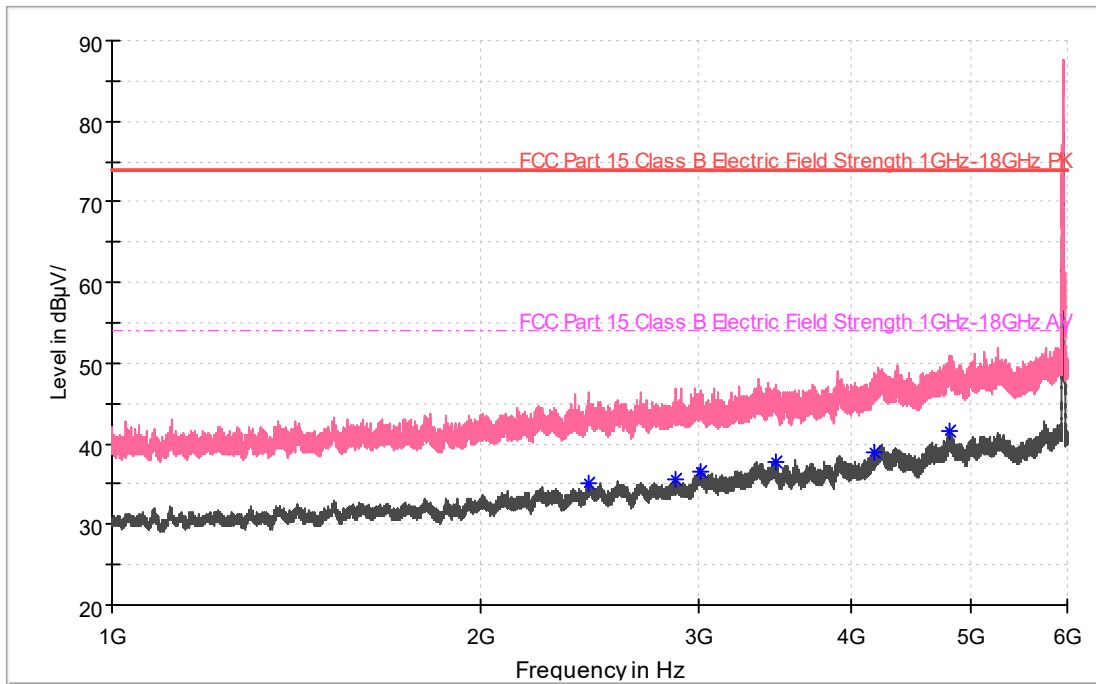
Full Spectrum



Frequency (MHz)	Reading (dBµV)	Average (dBµV/m)	Limit (dBµV/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

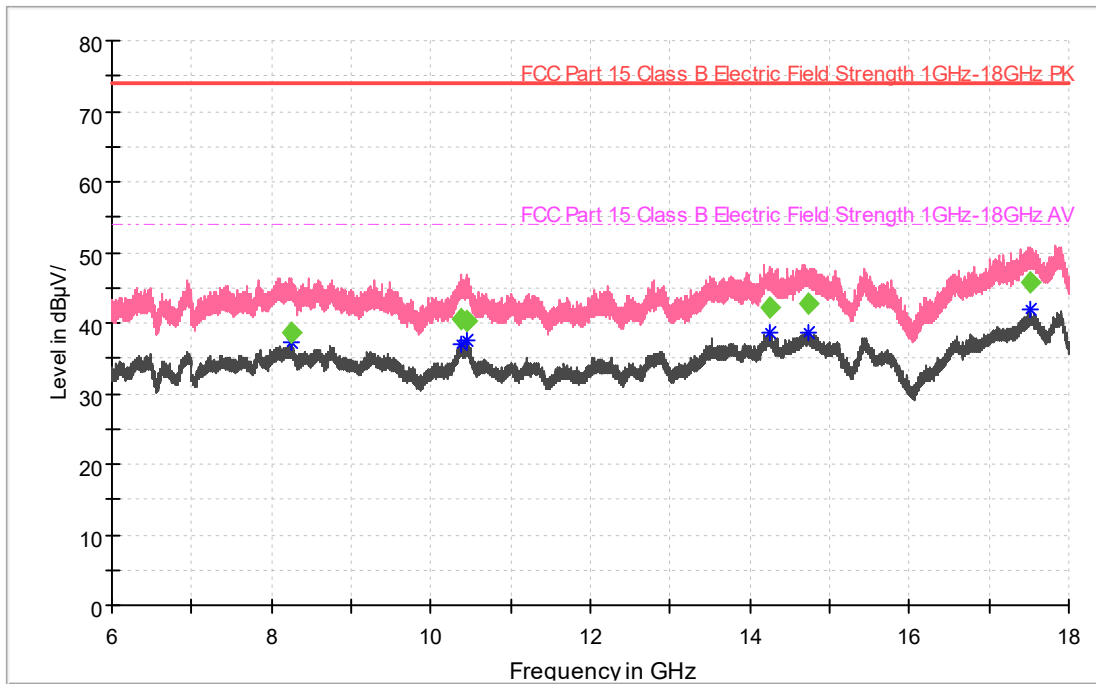
Full Spectrum



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

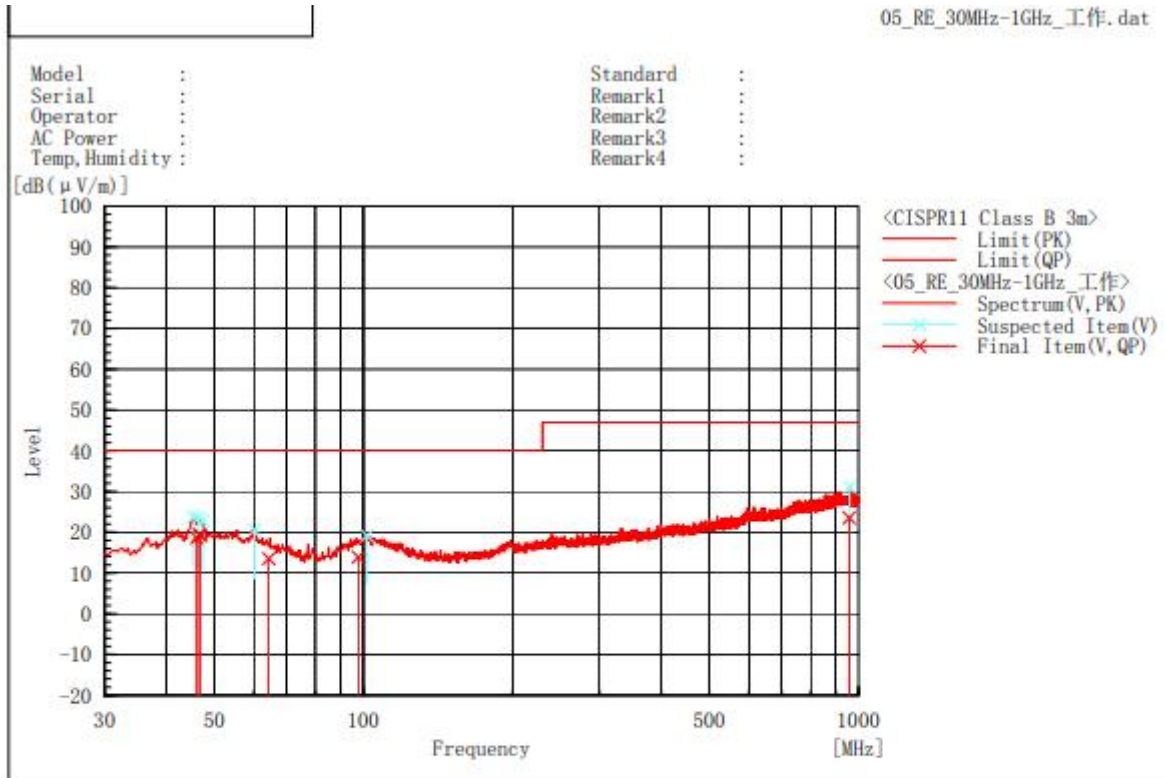


Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
8247.20	51.95	38.55	54.00	15.45	-13.40	Vertical
10379.20	52.75	40.45	54.00	13.55	-12.30	Vertical
10444.80	52.35	40.25	54.00	13.75	-12.10	Vertical
14250.80	52.79	42.19	54.00	11.81	-10.60	Vertical
14744.40	54.10	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.

**PartialRU**  
**RE Sample Calculations**  
CH1

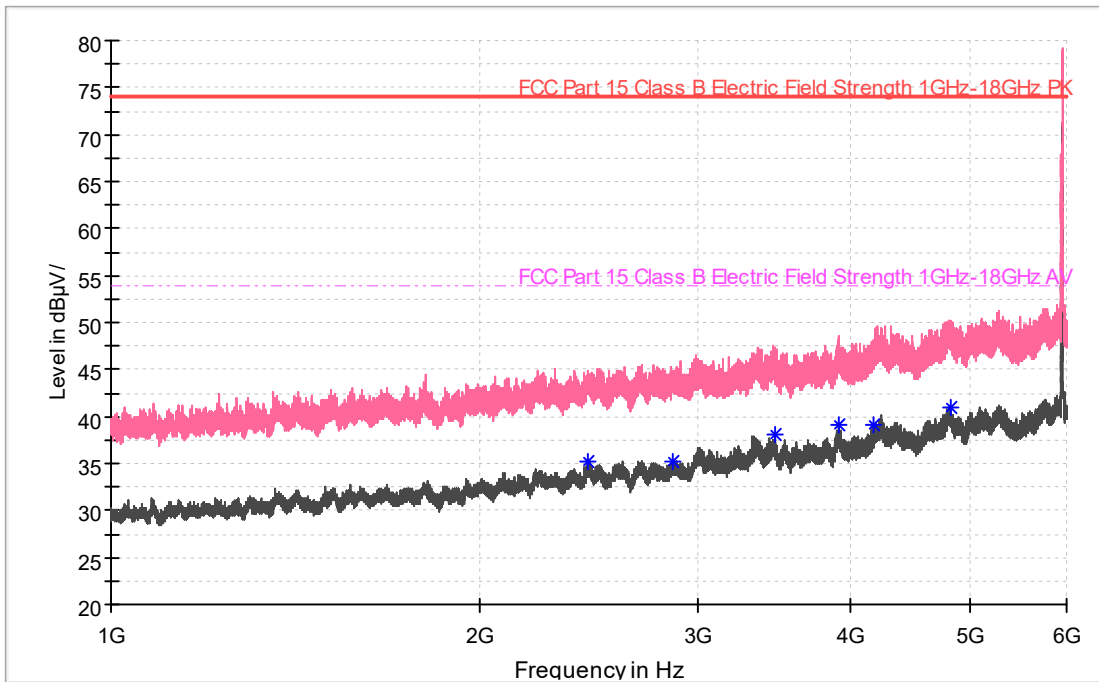


Final Result

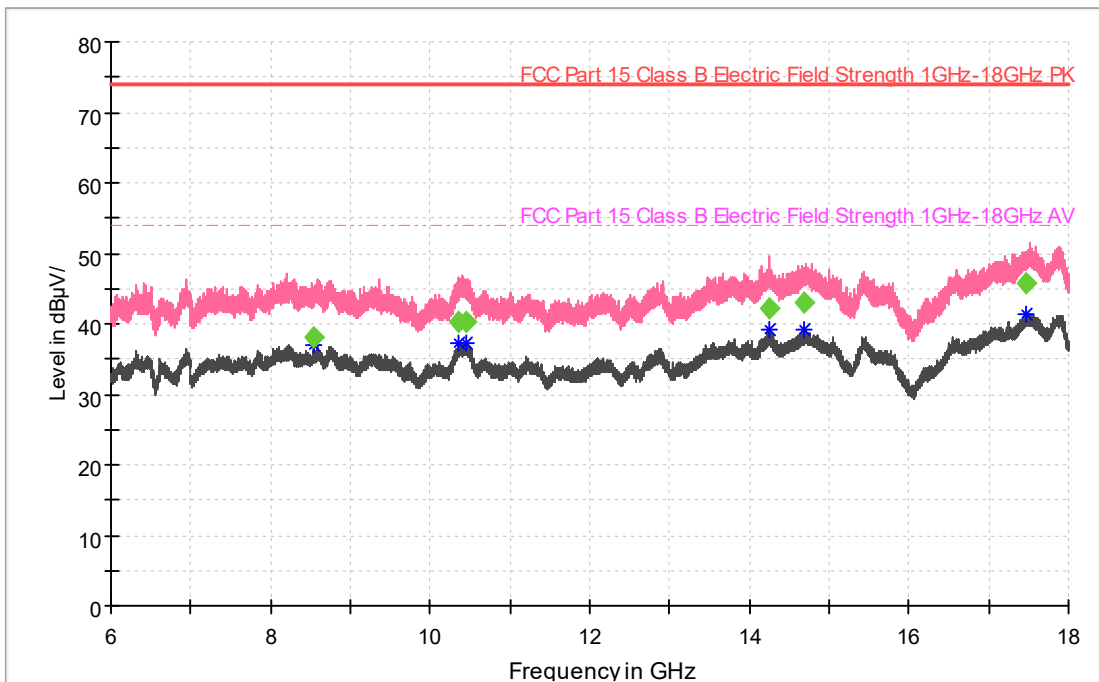
No.	Frequency [MHz]	(P)	Reading QP [dB(μV)]	c. f [dB(1/m)]	Result QP [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP [dB]	Height [cm]	Angle [°]	Remark
1	46.073	V	55.0	-36.4	18.6	40.0	21.4	399.0	292.0	
2	46.586	V	55.8	-36.3	19.5	40.0	20.5	398.0	195.7	
3	46.974	V	55.4	-36.2	19.2	40.0	20.8	399.0	357.0	
4	64.382	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

Full Spectrum



Full Spectrum



Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
2447.70	51.56	35.16	54.00	18.84	-16.40	Vertical
2871.60	51.38	35.28	54.00	18.72	-16.10	Vertical
3467.40	52.69	37.99	54.00	16.01	-14.70	Vertical
3910.30	53.11	39.01	54.00	14.99	-14.10	Vertical

4180.60	53.04	39.14	54.00	14.86	-13.90	Vertical
4820.80	52.72	41.02	54.00	12.98	-11.70	Vertical

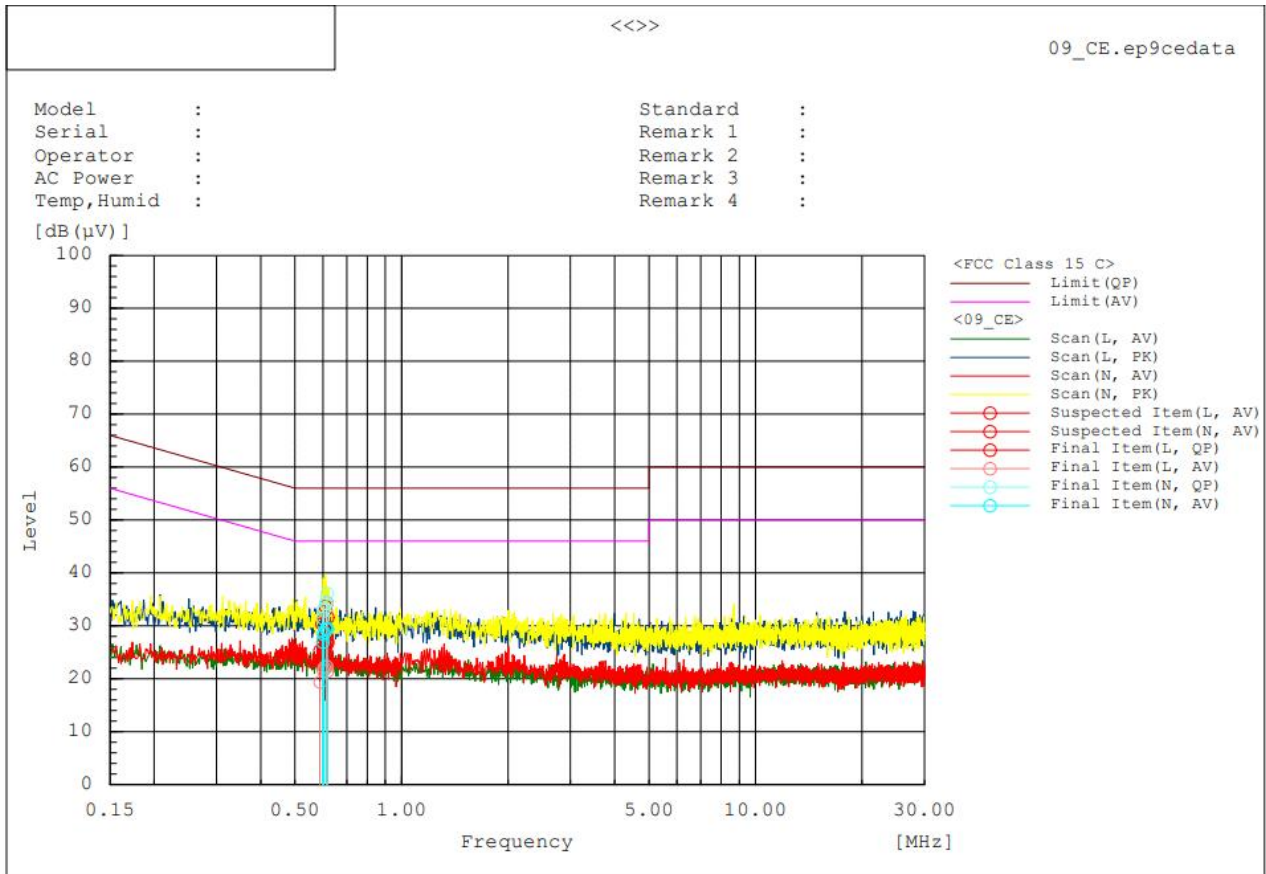
Frequency (MHz)	Reading (dBuV)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Arpl (dB)	Polarity
8549.60	51.95	38.05	54.00	15.95	-13.90	Vertical
10364.00	52.71	40.31	54.00	13.69	-12.40	Vertical
10463.60	52.23	40.23	54.00	13.77	-12.00	Vertical
14250.40	52.78	42.18	54.00	11.82	-10.60	Vertical
14686.40	53.99	42.99	54.00	11.01	-11.00	Vertical
17476.80	54.17	45.67	54.00	8.33	-8.50	Vertical

Frequency Range: 1GHz -18GHz

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



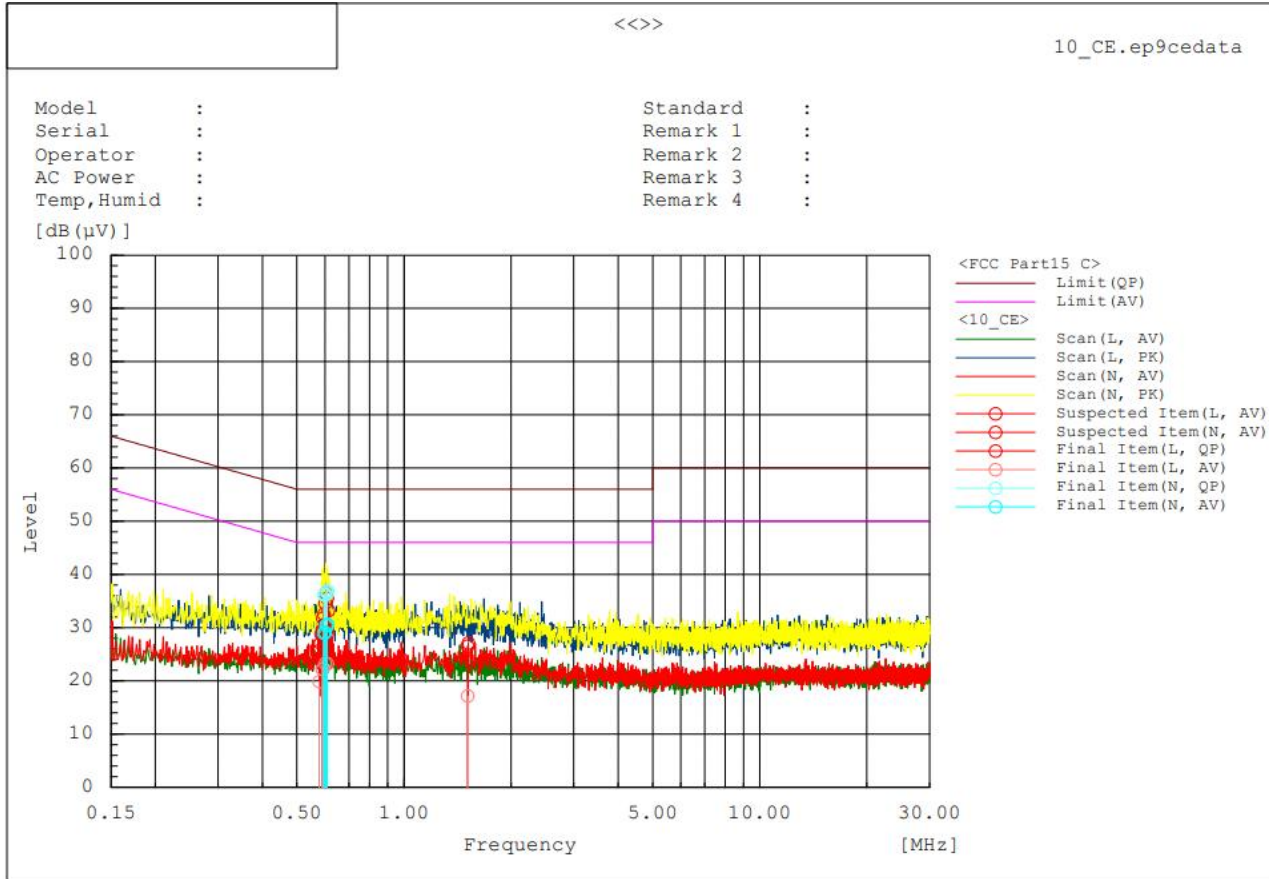
**AC Power line Conducted Emission**  
**MEASUREMENT RESULT:**  
**11a-5955MHz-100V**



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	

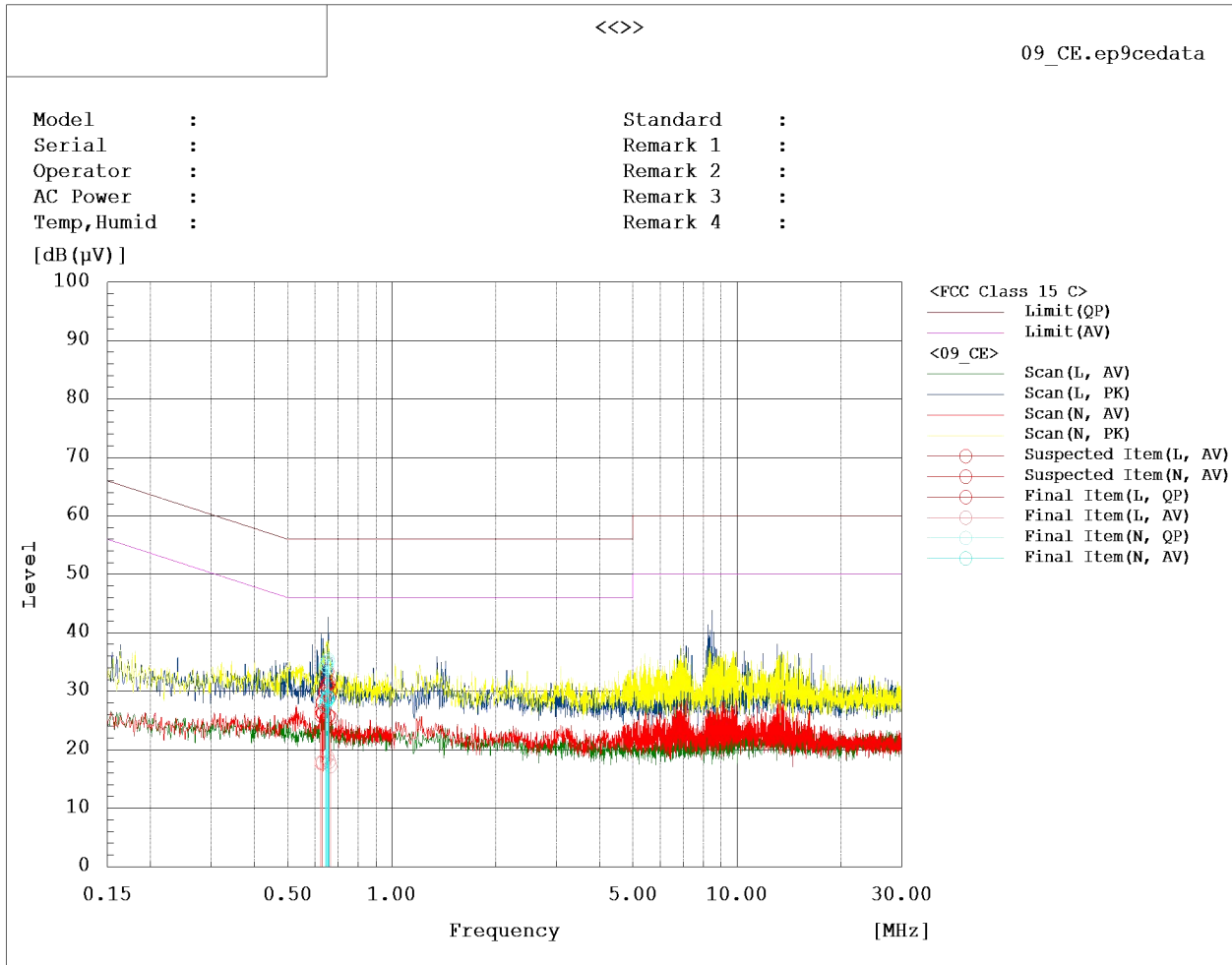
**11a-5955MHz-240V**



Final Result

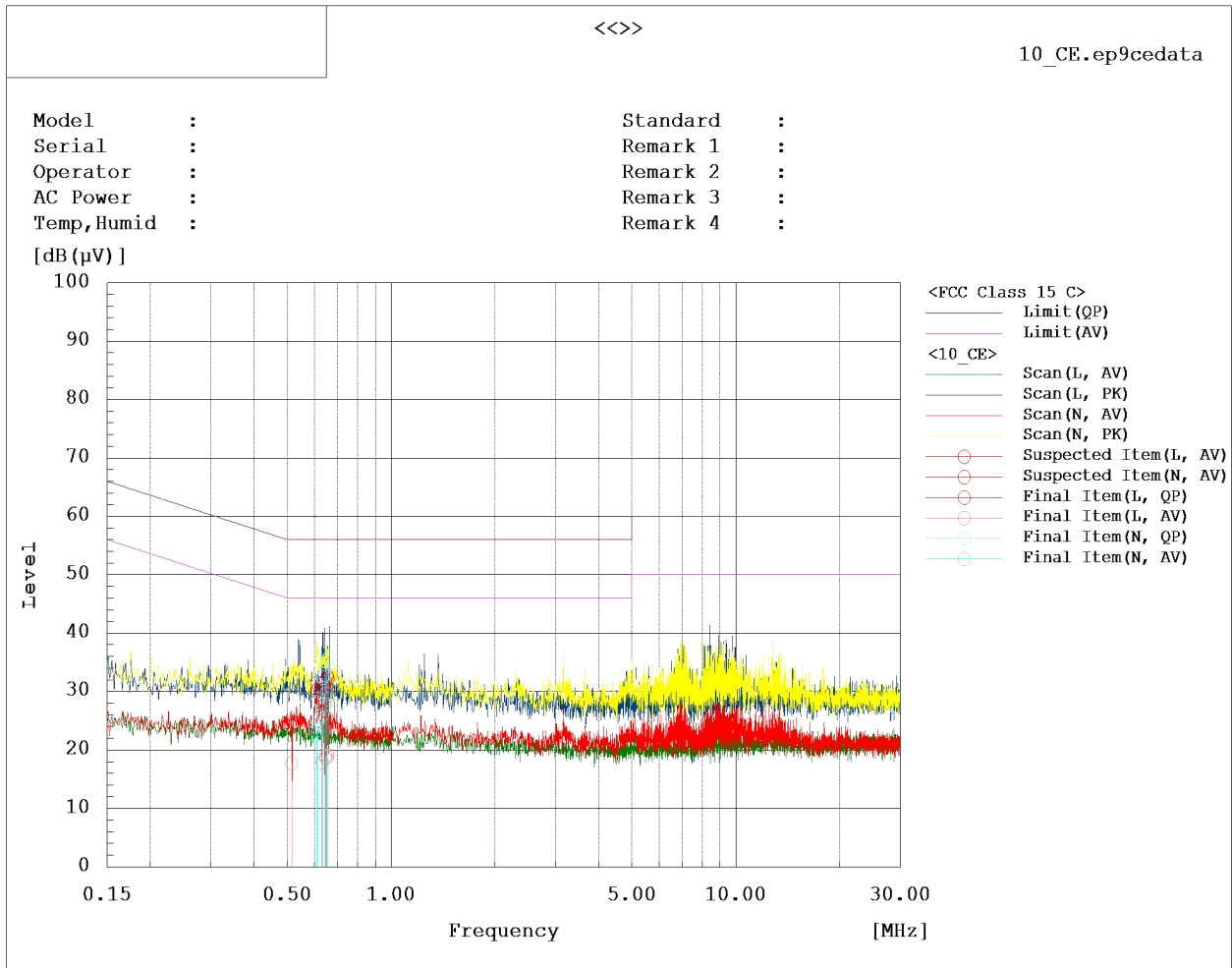
No.	Frequency [MHz]	Line	Reading QP [dB (μV)]	Reading AV [dB (μV)]	c.f [dB]	Result QP [dB (μV)]	Result AV [dB (μV)]	Limit QP [dB (μV)]	Limit AV [dB (μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.595	N	16.2	9.1	19.9	36.1	29.0	56.0	46.0	19.9	17.0	
2	0.599	N	16.4	9.2	19.9	36.3	29.1	56.0	46.0	19.7	16.9	
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	

**Partial RU**  
**AC Power line Conducted Emission**  
**MEASUREMENT RESULT:**  
**11ax-5955MHz-100V**



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	0.62	L	6.8	-2.1		19.9	26.7	17.8		56	46		29.3	28.2		Pass		
Band1	0.63	L	8	-2.1		19.9	27.9	17.8		56	46		28.1	28.2		Pass		
Band1	0.63	L	8.4	-2.1		19.9	28.3	17.8		56	46		27.7	28.2		Pass		
Band1	0.65	L	13.5	-1		19.9	33.4	18.9		56	46		22.6	27.1		Pass		
Band1	0.66	L	11.7	-1.9		19.9	31.6	18		56	46		24.4	28		Pass		
Band1	0.67	L	10.3	-2.6		19.9	30.2	17.3		56	46		25.8	28.7		Pass		
Band1	0.64	N	14.6	7.7		19.9	34.5	27.6		56	46		21.5	18.4		Pass		
Band1	0.65	N	14.5	8.5		19.9	34.4	28.4		56	46		21.6	17.6		Pass		
Band1	0.65	N	15.1	8.7		19.9	35	28.6		56	46		21	17.4		Pass		
Band1	0.65	N	15.6	9		19.9	35.5	28.9		56	46		20.5	17.1		Pass		
Band1	0.65	N	14.2	9.2		19.9	34.1	29.1		56	46		21.9	16.9		Pass		
Band1	0.66	N	15.2	8.9		19.9	35.1	28.8		56	46		20.9	17.2		Pass		

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



Range	Frequency MHz	Line	Reading			Factor dB	Level			Limit			Margin			Pass/Fail	Remark
			dB(μV)				dB(μV)			dB(μV)			dB				
			QP	AV	PK		QP	AV	PK	QP	AV	PK	QP	AV	PK		
Band1	0.61	N	8.9	3.6		19.9	28.8	23.5		56	46		27.2	22.5		Pass	
Band1	0.61	N	4.8	2.8		19.9	24.7	22.7		56	46		31.3	23.3		Pass	
Band1	0.63	N	12.5	6.1		19.9	32.4	26		56	46		23.6	20		Pass	
Band1	0.64	N	13	7.9		19.9	32.9	27.8		56	46		23.1	18.2		Pass	
Band1	0.65	N	15.4	9.8		19.9	35.3	29.7		56	46		20.7	16.3		Pass	
Band1	0.66	N	15.9	8.8		19.9	35.8	28.7		56	46		20.2	17.3		Pass	
Band1	0.52	L	4.3	-2.1		19.9	24.2	17.8		56	46		31.8	28.2		Pass	
Band1	0.63	L	8.4	-2		19.9	28.3	17.9		56	46		27.7	28.1		Pass	
Band1	0.64	L	11.7	-1.1		19.9	31.6	18.8		56	46		24.4	27.2		Pass	
Band1	0.65	L	12	-1		19.9	31.9	18.9		56	46		24.1	27.1		Pass	
Band1	0.65	L	12.8	-0.8		19.9	32.7	19.1		56	46		23.3	26.9		Pass	
Band1	0.66	L	12.3	-1		19.9	32.2	18.9		56	46		23.8	27.1		Pass	

---End of Test Report---