

Fig.64 Radiated emission: 11ax 80M, Ch199, 1GHz-8.5GHz

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1698.007500	---	32.34	54.00	21.66	50.0	1000.000	150.0	V	0.0	-11.4
1998.500000	43.27	---	68.20	24.93	50.0	1000.000	150.0	H	0.0	-10.8
2245.770000	---	28.85	54.00	25.15	50.0	1000.000	150.0	H	90.0	-10.0
2436.295000	43.50	---	68.20	24.70	50.0	1000.000	150.0	V	90.0	-9.5
2488.997500	46.88	---	74.00	27.12	50.0	1000.000	150.0	V	180.0	-9.3
2491.047500	---	31.50	54.00	22.50	50.0	1000.000	150.0	V	90.0	-9.3
4989.070000	---	30.02	54.00	23.98	50.0	1000.000	150.0	V	180.0	-2.7
5404.472500	---	28.47	54.00	25.53	50.0	1000.000	150.0	V	180.0	-1.5
7237.019500	41.11	---	68.20	27.09	50.0	1000.000	150.0	V	0.0	2.6
7930.128000	43.63	---	68.20	24.57	50.0	1000.000	150.0	V	180.0	5.2
8404.726000	---	32.82	54.00	21.18	50.0	1000.000	150.0	V	0.0	5.7
8467.000000	45.61	---	74.00	28.39	50.0	1000.000	150.0	V	270.0	5.5

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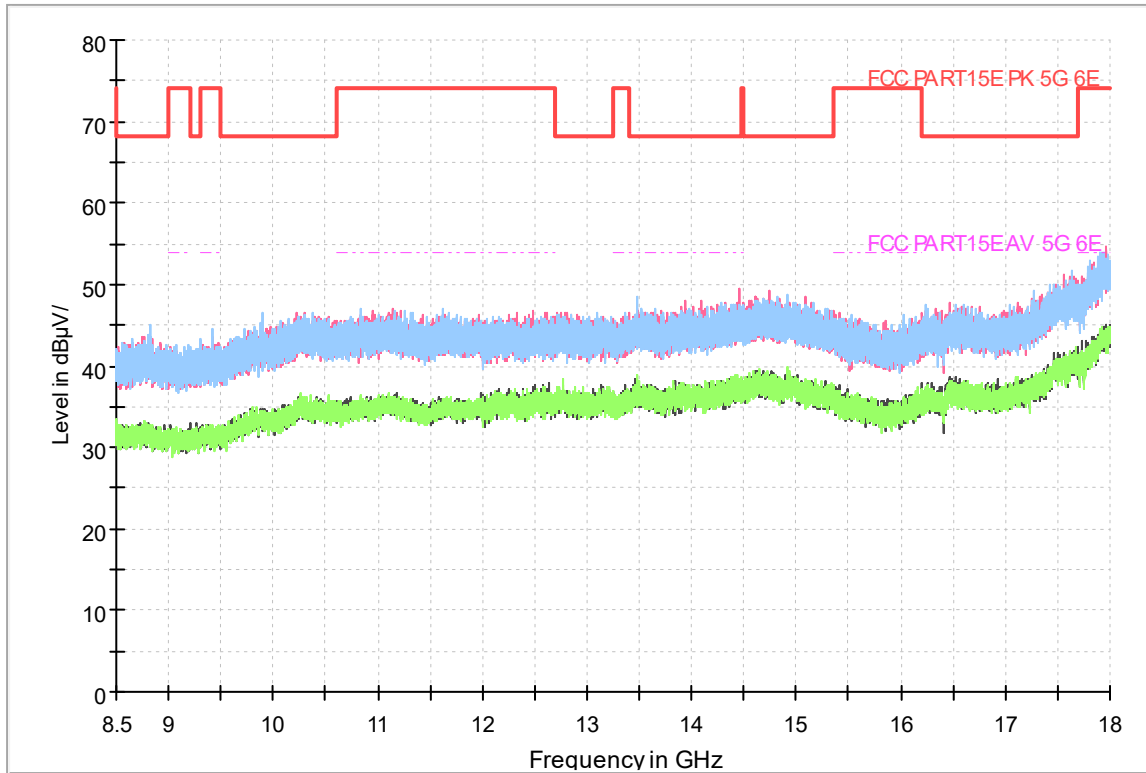


Fig.65 Radiated emission: 11ax 80M, Ch199, 8.5GHz-18GHz

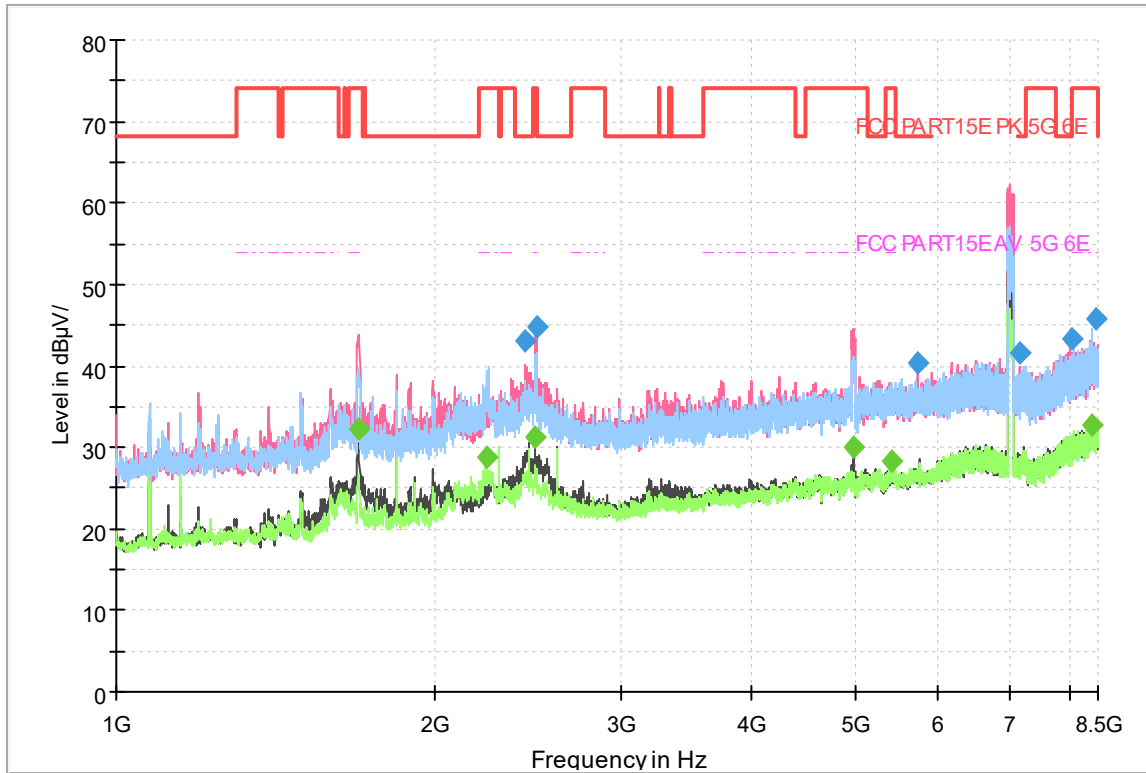


Fig.66 Radiated emission: 11ax 80M, Ch215, 1GHz-8.5GHz

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1698.012500	---	32.33	54.00	21.67	50.0	1000.000	150.0	V	0.0	-11.4
2245.777500	---	28.69	54.00	25.31	50.0	1000.000	150.0	H	90.0	-10.0
2440.312500	43.07	---	68.20	25.13	50.0	1000.000	150.0	V	180.0	-9.5
2491.052500	---	31.36	54.00	22.64	50.0	1000.000	150.0	V	90.0	-9.3
2498.000000	44.80	---	74.00	29.20	50.0	1000.000	150.0	H	0.0	-9.2
4989.090000	---	30.03	54.00	23.97	50.0	1000.000	150.0	V	180.0	-2.7
5415.295000	---	28.32	54.00	25.68	50.0	1000.000	150.0	V	180.0	-1.3
5736.360000	40.26	---	68.20	27.94	50.0	1000.000	150.0	V	180.0	-0.8
7164.145000	41.48	---	68.20	26.72	50.0	1000.000	150.0	V	0.0	2.3
8047.437500	43.40	---	74.00	30.60	50.0	1000.000	150.0	V	180.0	5.2
8405.467500	---	32.84	54.00	21.16	50.0	1000.000	150.0	H	180.0	5.7
8465.500000	45.74	---	74.00	28.26	50.0	1000.000	150.0	H	90.0	5.5

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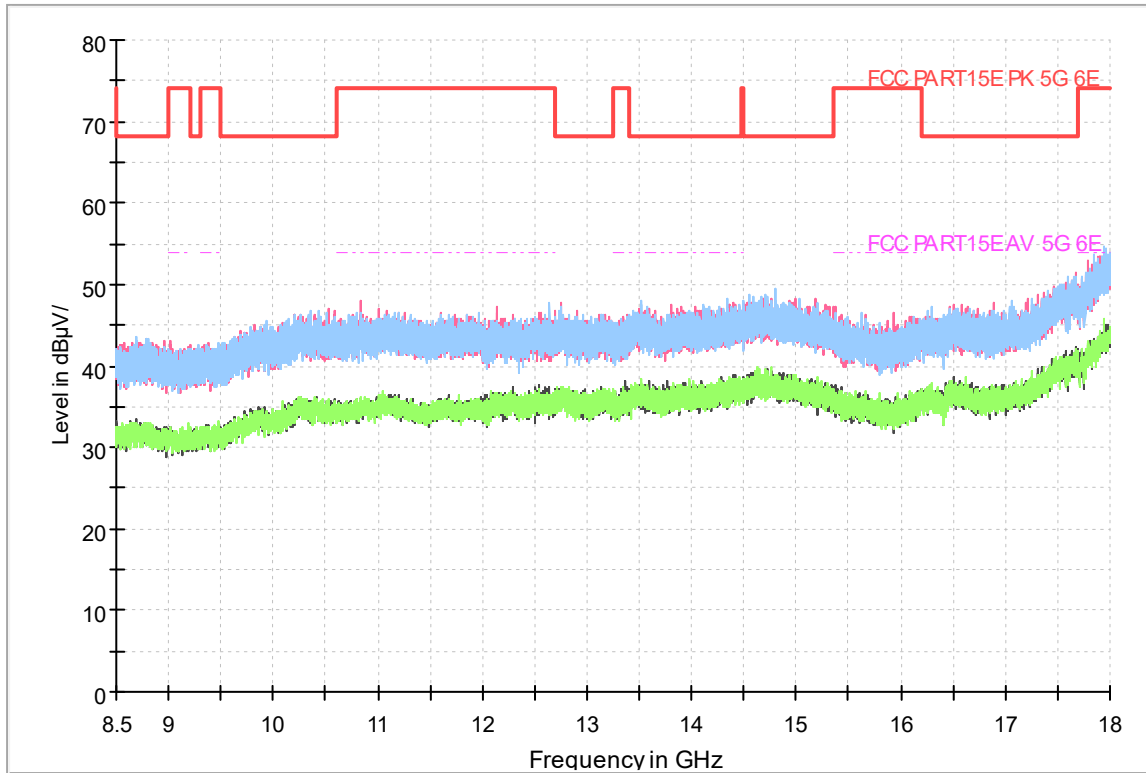


Fig.67 Radiated emission: 11ax 80M, Ch215, 8.5GHz-18GHz

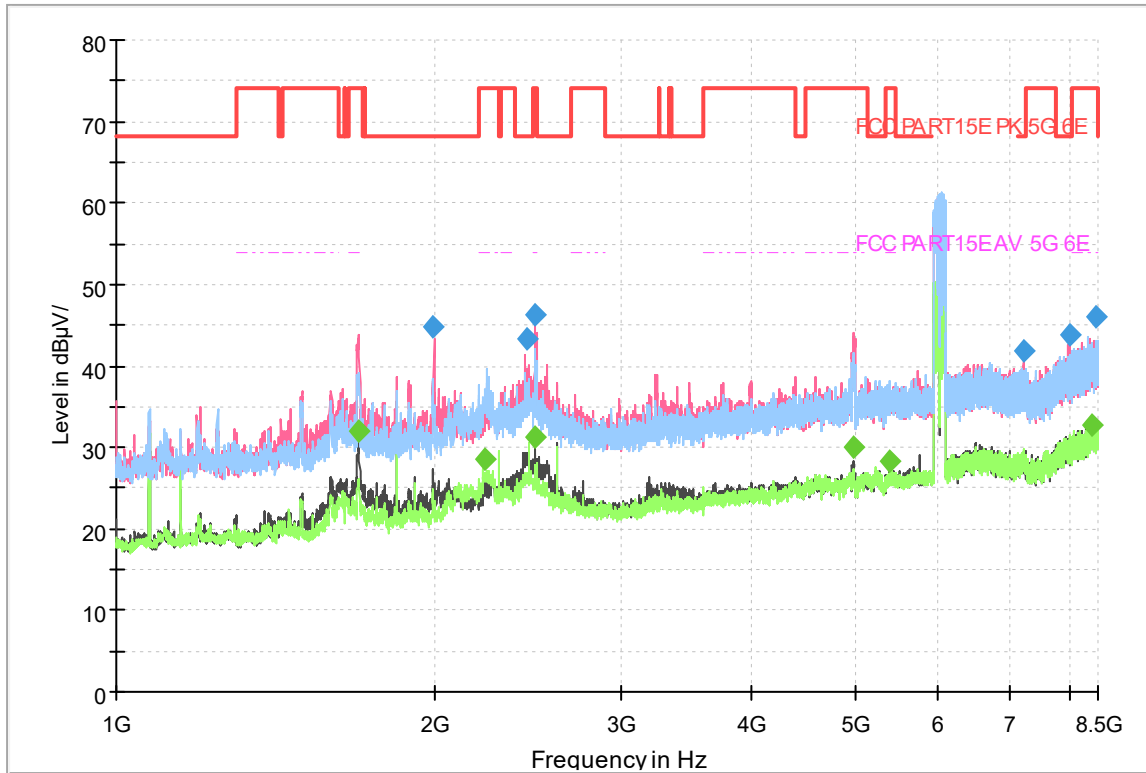


Fig.68 Radiated emission: 11ax 160M, Ch15, 1GHz-8.5GHz

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1697.530000	---	31.95	54.00	22.05	50.0	1000.000	150.0	V	0.0	-11.4
1991.507500	44.81	---	68.20	23.39	50.0	1000.000	150.0	V	0.0	-10.8
2238.135000	---	28.44	54.00	25.56	50.0	1000.000	150.0	H	90.0	-10.0
2444.290000	43.43	---	68.20	24.77	50.0	1000.000	150.0	V	90.0	-9.4
2491.045000	---	31.24	54.00	22.76	50.0	1000.000	150.0	V	90.0	-9.3
2495.000000	46.26	---	74.00	27.74	50.0	1000.000	150.0	V	180.0	-9.2
4988.590000	---	30.03	54.00	23.97	50.0	1000.000	150.0	V	180.0	-2.6
5405.472500	---	28.38	54.00	25.62	50.0	1000.000	150.0	V	0.0	-1.4
7232.522000	41.94	---	68.20	26.26	50.0	1000.000	150.0	V	0.0	2.5
8000.279500	43.74	---	68.20	24.46	50.0	1000.000	150.0	V	270.0	5.2
8404.848000	---	32.78	54.00	21.22	50.0	1000.000	150.0	H	270.0	5.7
8458.000000	46.05	---	74.00	27.95	50.0	1000.000	150.0	H	180.0	5.6

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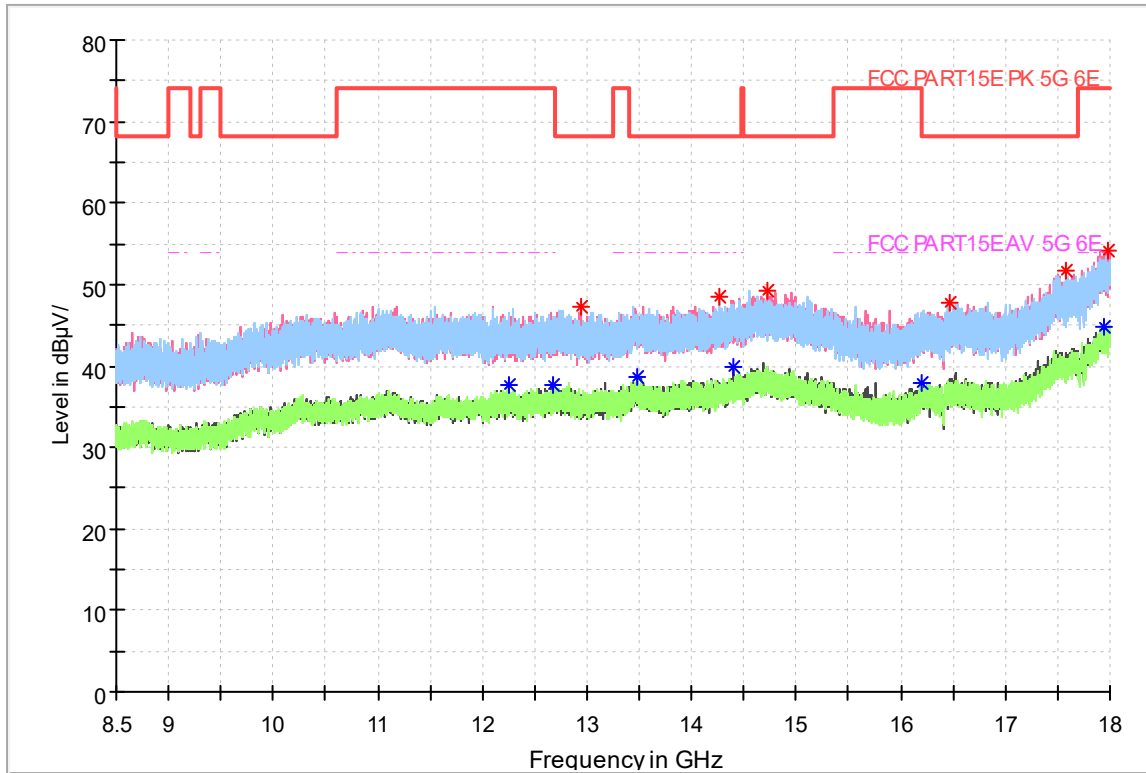


Fig.69 Radiated emission: 11ax 160M, Ch15, 8.5GHz-18GHz

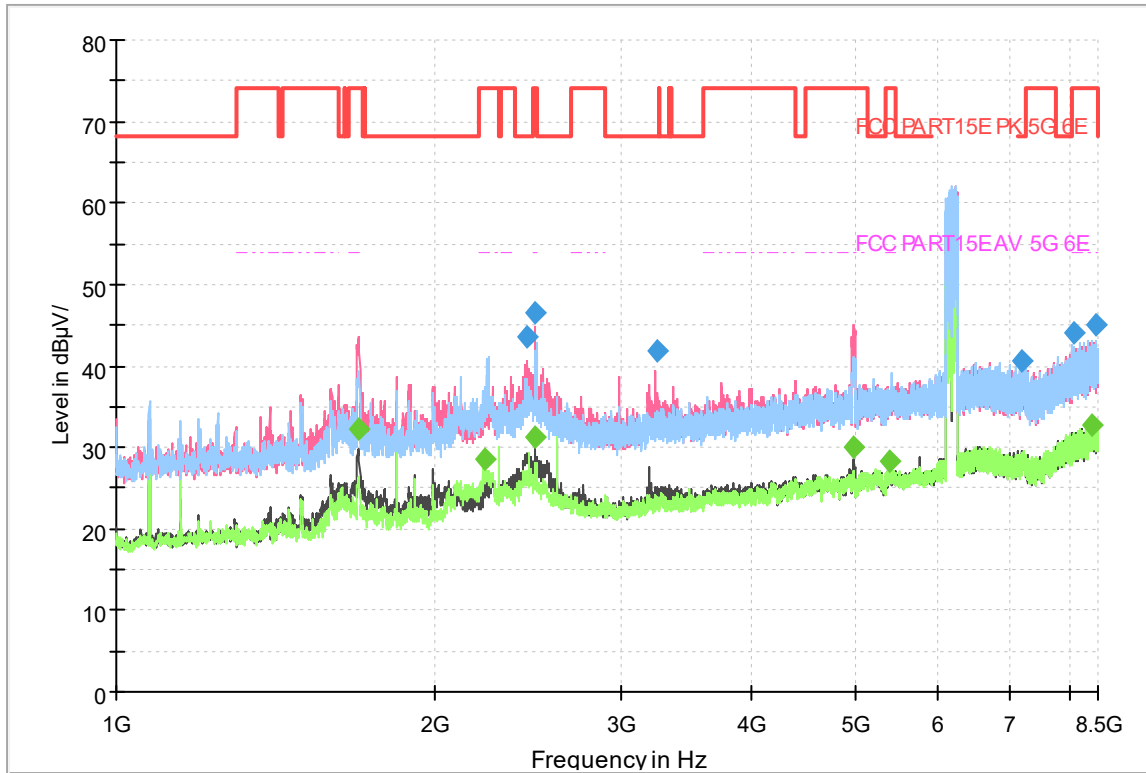


Fig.70 Radiated emission: 11ax 160M, Ch47, 1GHz-8.5GHz

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1697.532500	---	32.19	54.00	21.81	50.0	1000.000	150.0	V	0.0	-11.4
2238.357500	---	28.54	54.00	25.46	50.0	1000.000	150.0	H	90.0	-10.0
2443.780000	43.55	---	68.20	24.65	50.0	1000.000	150.0	V	90.0	-9.4
2490.997500	46.43	---	74.00	27.57	50.0	1000.000	150.0	V	180.0	-9.3
2491.042500	---	31.33	54.00	22.67	50.0	1000.000	150.0	V	90.0	-9.3
3250.282500	41.84	---	68.20	26.36	50.0	1000.000	150.0	V	0.0	-7.1
4989.052500	---	29.98	54.00	24.02	50.0	1000.000	150.0	V	180.0	-2.6
5402.905000	---	28.37	54.00	25.63	50.0	1000.000	150.0	V	0.0	-1.5
7184.844000	40.54	---	68.20	27.66	50.0	1000.000	150.0	H	180.0	2.3
8055.755500	44.12	---	74.00	29.88	50.0	1000.000	150.0	H	0.0	5.3
8404.517500	---	32.84	54.00	21.16	50.0	1000.000	150.0	H	270.0	5.7
8471.500000	45.16	---	74.00	28.84	50.0	1000.000	150.0	H	90.0	5.5

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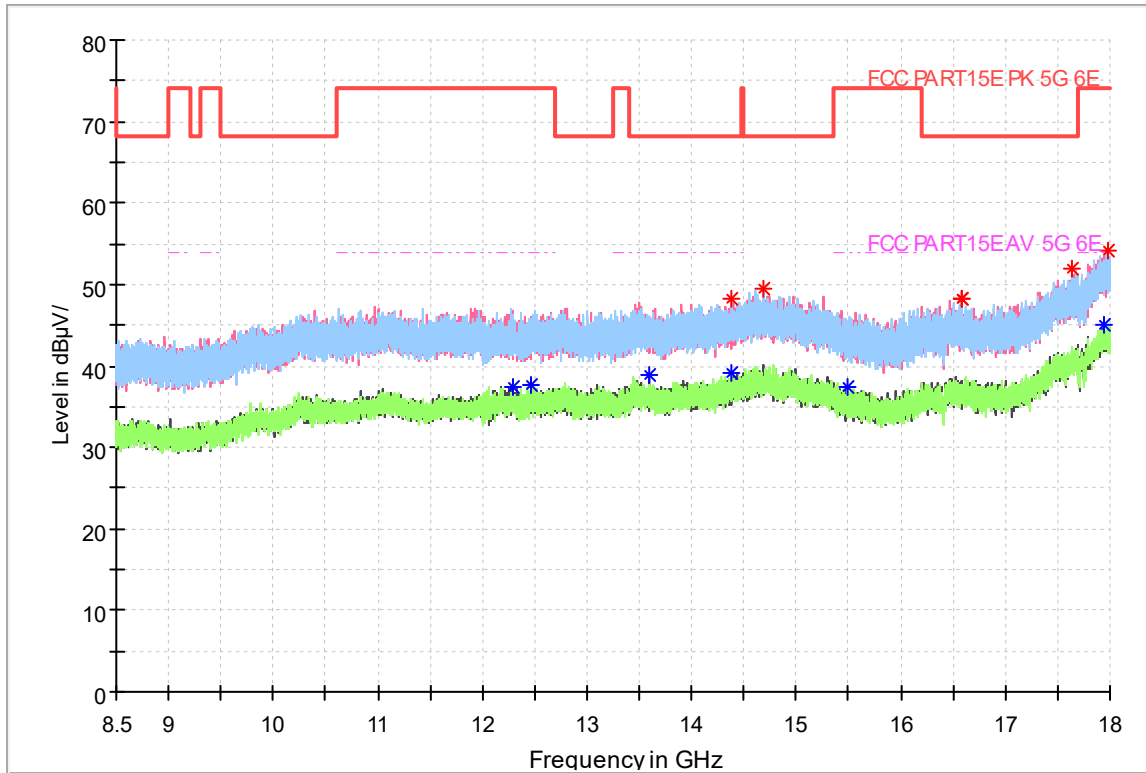


Fig.71 Radiated emission: 11ax 160M, Ch47, 8.5GHz-18GHz

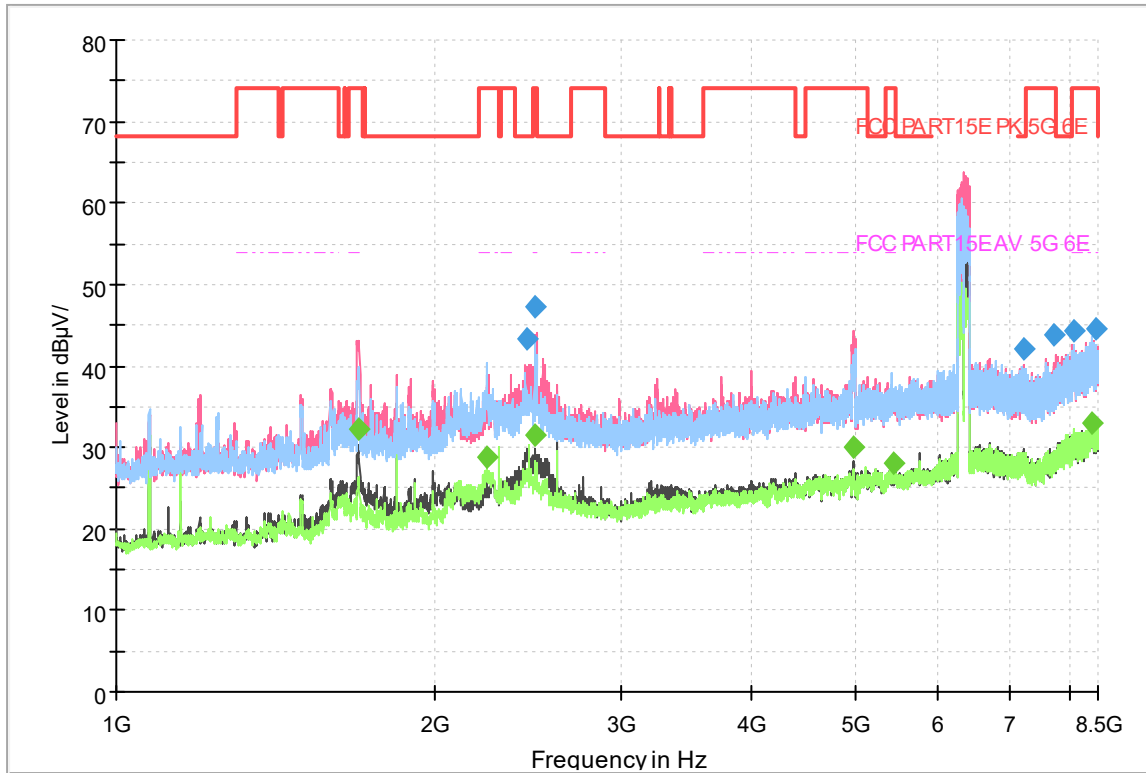


Fig.72 Radiated emission: 11ax 160M, Ch79, 1GHz-8.5GHz

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1697.510000	---	32.26	54.00	21.74	50.0	1000.000	150.0	V	0.0	-11.4
2245.790000	---	28.71	54.00	25.29	50.0	1000.000	150.0	H	90.0	-10.0
2443.722500	43.35	---	68.20	24.85	50.0	1000.000	150.0	V	90.0	-9.4
2489.997500	47.28	---	74.00	26.72	50.0	1000.000	150.0	V	90.0	-9.3
2491.047500	---	31.59	54.00	22.41	50.0	1000.000	150.0	V	90.0	-9.3
4985.577500	---	29.92	54.00	24.08	50.0	1000.000	150.0	V	90.0	-2.6
5438.710000	---	28.06	54.00	25.94	50.0	1000.000	150.0	V	180.0	-1.2
7241.909500	42.16	---	68.20	26.04	50.0	1000.000	150.0	V	180.0	2.6
7729.250000	43.70	---	74.00	30.30	50.0	1000.000	150.0	V	0.0	4.1
8060.007000	44.21	---	74.00	29.79	50.0	1000.000	150.0	V	90.0	5.3
8405.137000	---	33.03	54.00	20.97	50.0	1000.000	150.0	H	0.0	5.7
8461.000000	44.57	---	74.00	29.43	50.0	1000.000	150.0	V	0.0	5.6

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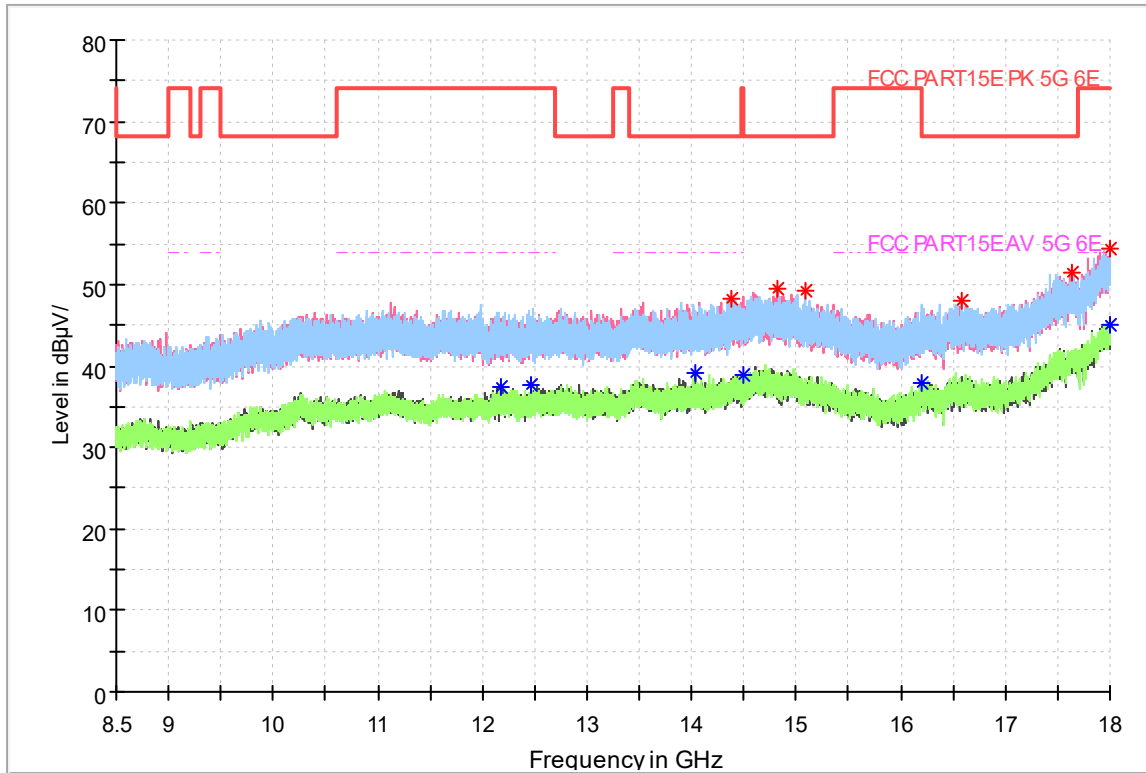


Fig.73 Radiated emission: 11ax 160M, Ch79, 8.5GHz-18GHz

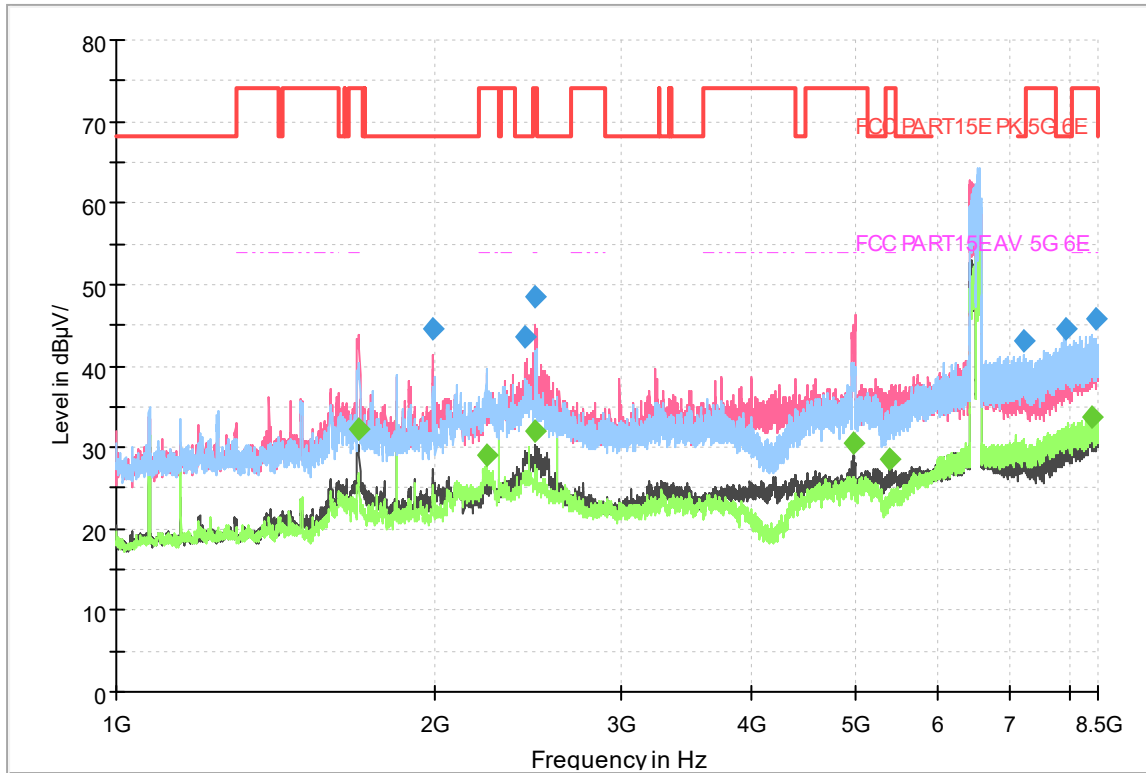


Fig.74 Radiated emission: 11ax 160M, Ch111, 1GHz-8.5GHz

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1694.010000	---	32.29	54.00	21.71	50.0	1000.000	150.0	V	0.0	-11.4
1998.022500	44.54	---	68.20	23.66	50.0	1000.000	150.0	V	0.0	-10.8
2245.782500	---	28.98	54.00	25.02	50.0	1000.000	150.0	H	90.0	-10.0
2436.772500	43.62	---	68.20	24.58	50.0	1000.000	150.0	V	180.0	-9.5
2491.045000	---	32.02	54.00	21.98	50.0	1000.000	150.0	V	180.0	-9.3
2492.000000	48.40	---	74.00	25.60	50.0	1000.000	150.0	V	180.0	-9.2
4988.550000	---	30.57	54.00	23.43	50.0	1000.000	150.0	V	180.0	-2.6
5404.490000	---	28.54	54.00	25.46	50.0	1000.000	150.0	V	180.0	-1.5
7217.919500	43.19	---	68.20	25.01	50.0	1000.000	150.0	H	0.0	2.5
7919.072000	44.53	---	68.20	23.67	50.0	1000.000	150.0	H	270.0	5.1
8404.639500	---	33.68	54.00	20.32	50.0	1000.000	150.0	H	90.0	5.7
8464.500000	45.80	---	74.00	28.20	50.0	1000.000	150.0	H	180.0	5.6

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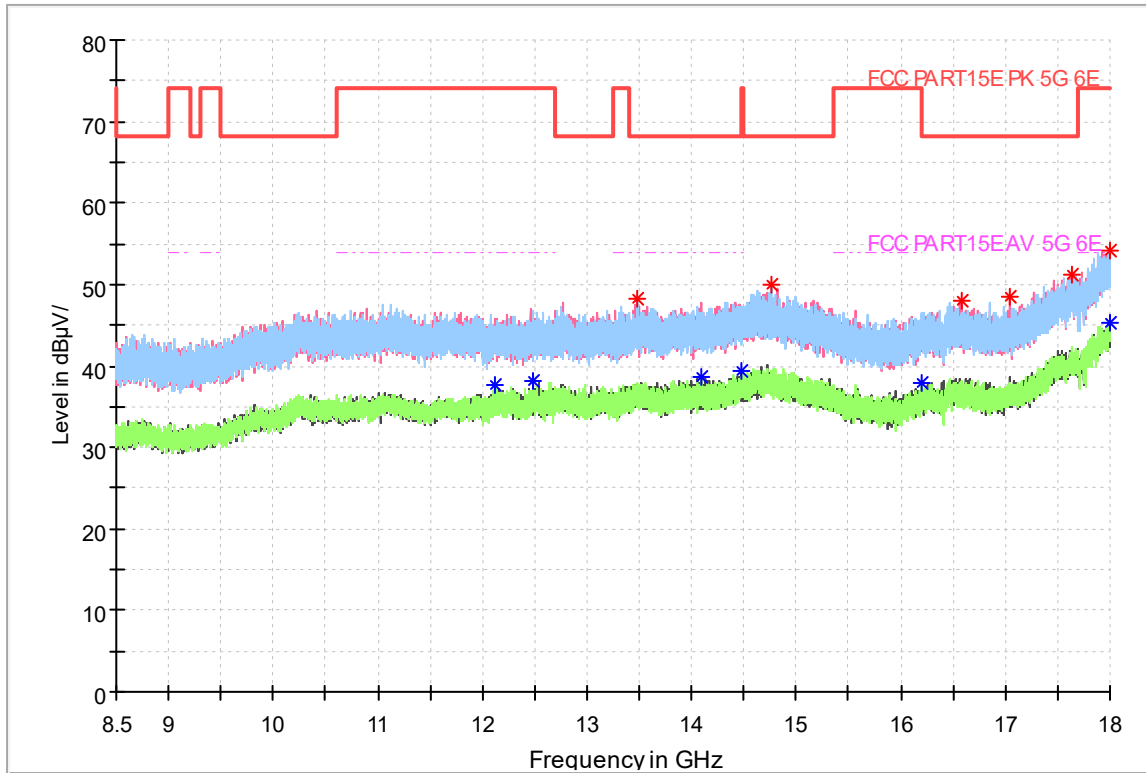


Fig.75 Radiated emission: 11ax 160M, Ch111, 8.5GHz-18GHz

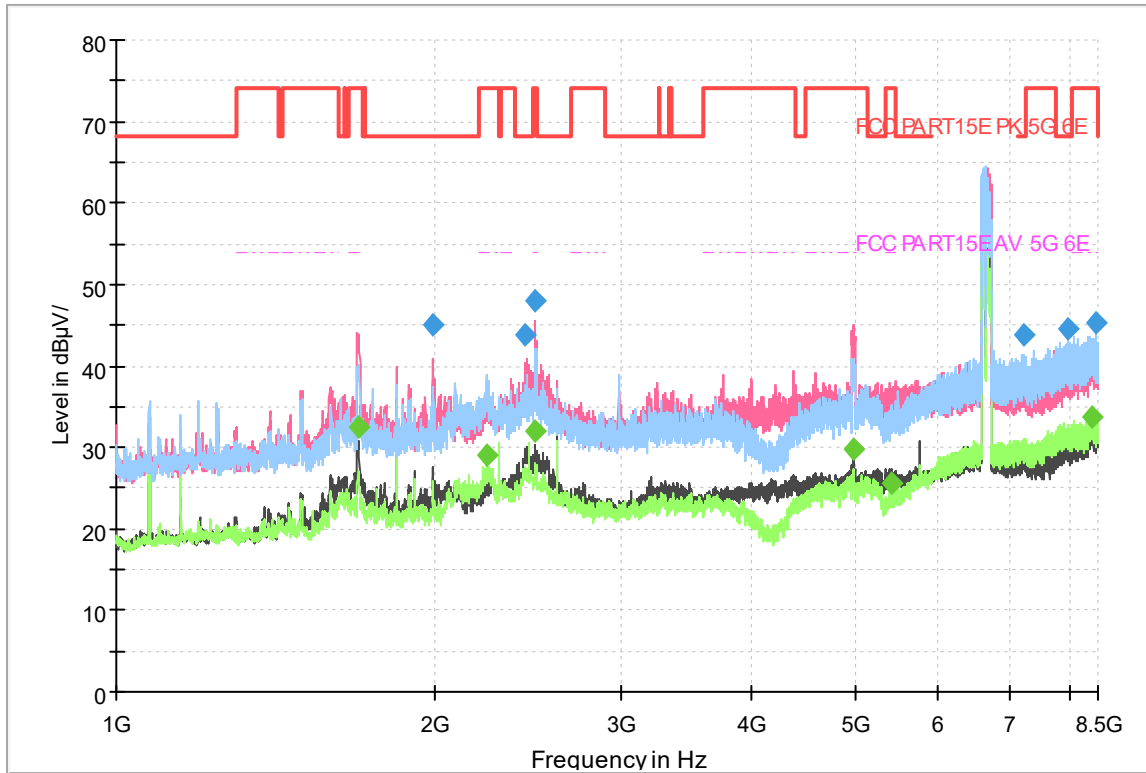


Fig.76 Radiated emission: 11ax 160M, Ch143, 1GHz-8.5GHz

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1697.530000	---	32.60	54.00	21.40	50.0	1000.000	150.0	V	0.0	-11.4
1998.030000	45.13	---	68.20	23.07	50.0	1000.000	150.0	V	0.0	-10.8
2245.790000	---	29.04	54.00	24.96	50.0	1000.000	150.0	H	90.0	-10.0
2442.735000	43.78	---	68.20	24.42	50.0	1000.000	150.0	V	90.0	-9.4
2489.000000	47.93	---	74.00	26.07	50.0	1000.000	150.0	V	90.0	-9.3
2491.050000	---	31.91	54.00	22.09	50.0	1000.000	150.0	V	90.0	-9.3
4985.572500	---	29.89	54.00	24.11	50.0	1000.000	150.0	V	180.0	-2.6
5419.942500	---	25.64	54.00	28.36	50.0	1000.000	150.0	V	0.0	-1.3
7228.062000	43.82	---	68.20	24.38	50.0	1000.000	150.0	H	0.0	2.5
7964.949000	44.49	---	68.20	23.71	50.0	1000.000	150.0	H	0.0	5.2
8404.329000	---	33.73	54.00	20.27	50.0	1000.000	150.0	H	270.0	5.7
8457.500000	45.41	---	74.00	28.59	50.0	1000.000	150.0	H	180.0	5.6

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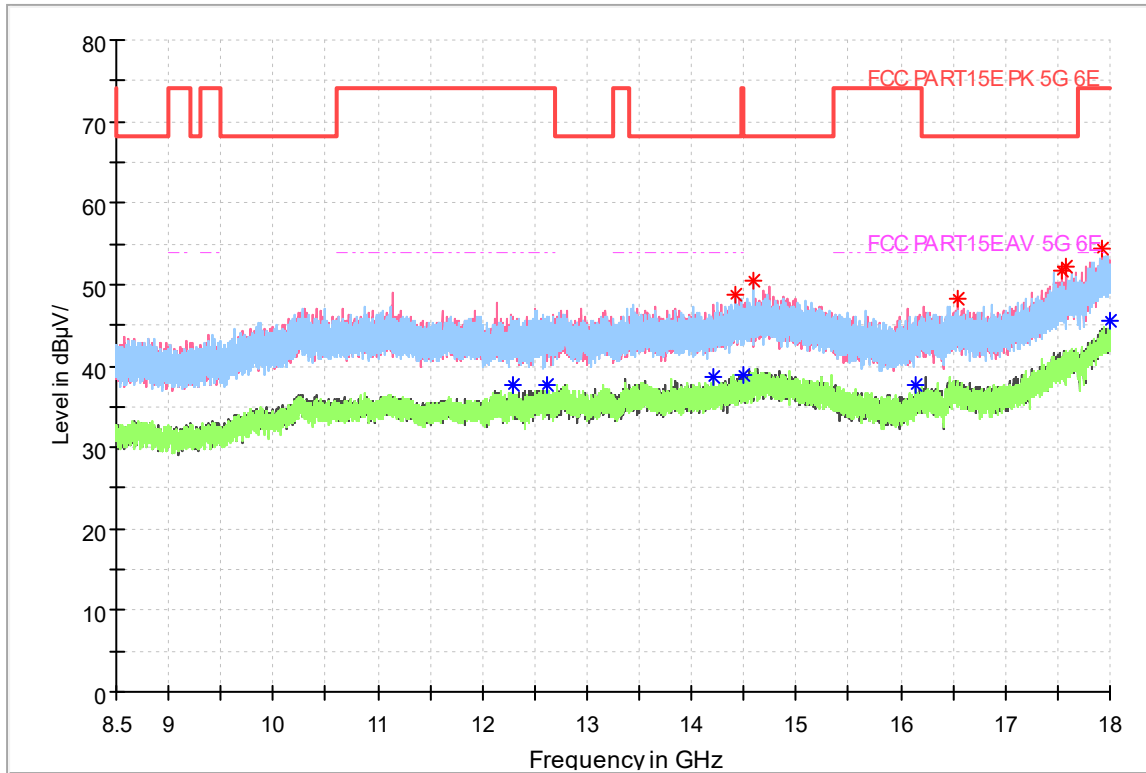


Fig.77 Radiated emission: 11ax 160M, Ch143, 8.5GHz-18GHz

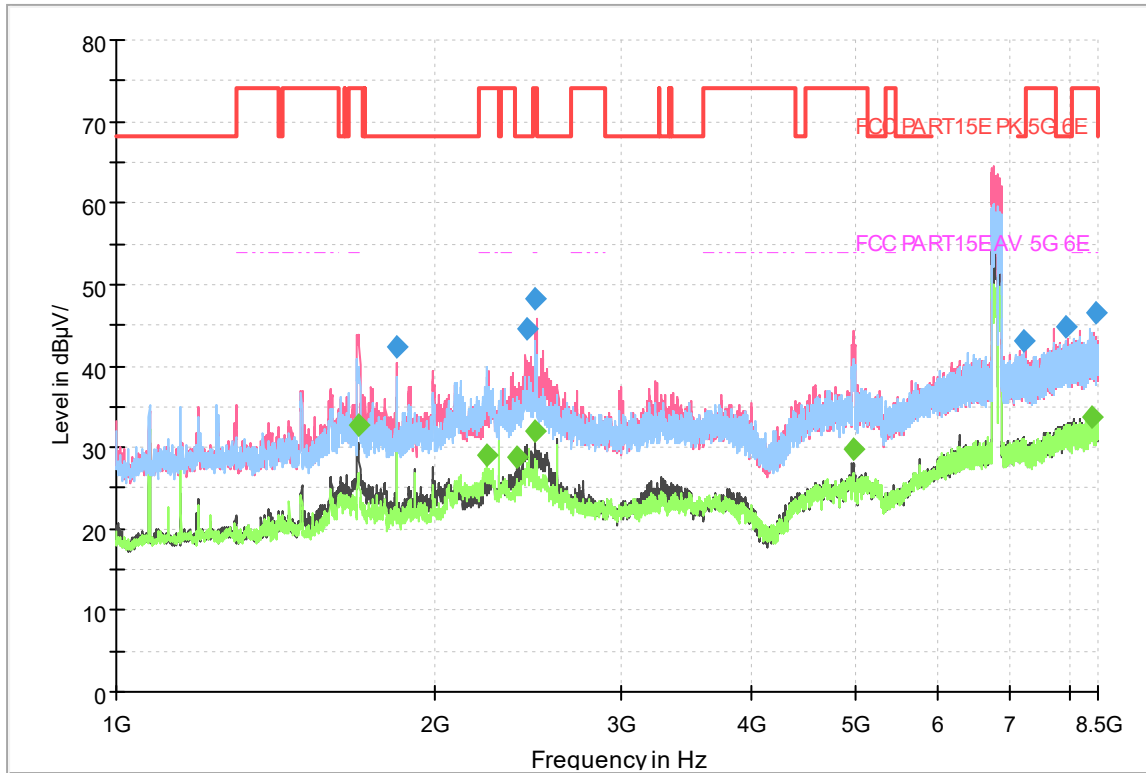


Fig.78 Radiated emission: 11ax 160M, Ch175, 1GHz-8.5GHz

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1698.012500	---	32.74	54.00	21.26	50.0	1000.000	150.0	V	0.0	-11.4
1843.285000	42.37	---	68.20	25.83	50.0	1000.000	150.0	V	270.0	-11.1
2245.782500	---	28.97	54.00	25.03	50.0	1000.000	150.0	H	90.0	-10.0
2397.052500	---	28.79	54.00	17.21	50.0	1000.000	150.0	V	90.0	-9.6
2444.787500	44.61	---	68.20	23.59	50.0	1000.000	150.0	V	90.0	-9.4
2488.997500	48.24	---	74.00	25.76	50.0	1000.000	150.0	V	90.0	-9.3
2491.037500	---	31.90	54.00	22.10	50.0	1000.000	150.0	V	90.0	-9.3
4985.610000	---	29.78	54.00	24.22	50.0	1000.000	150.0	V	180.0	-2.6
7237.004000	43.15	---	68.20	25.05	50.0	1000.000	150.0	V	0.0	2.6
7912.519000	44.72	---	68.20	23.48	50.0	1000.000	150.0	V	180.0	5.1
8404.604500	---	33.71	54.00	20.29	50.0	1000.000	150.0	H	0.0	5.7
8464.000000	46.62	---	74.00	27.38	50.0	1000.000	150.0	V	180.0	5.6

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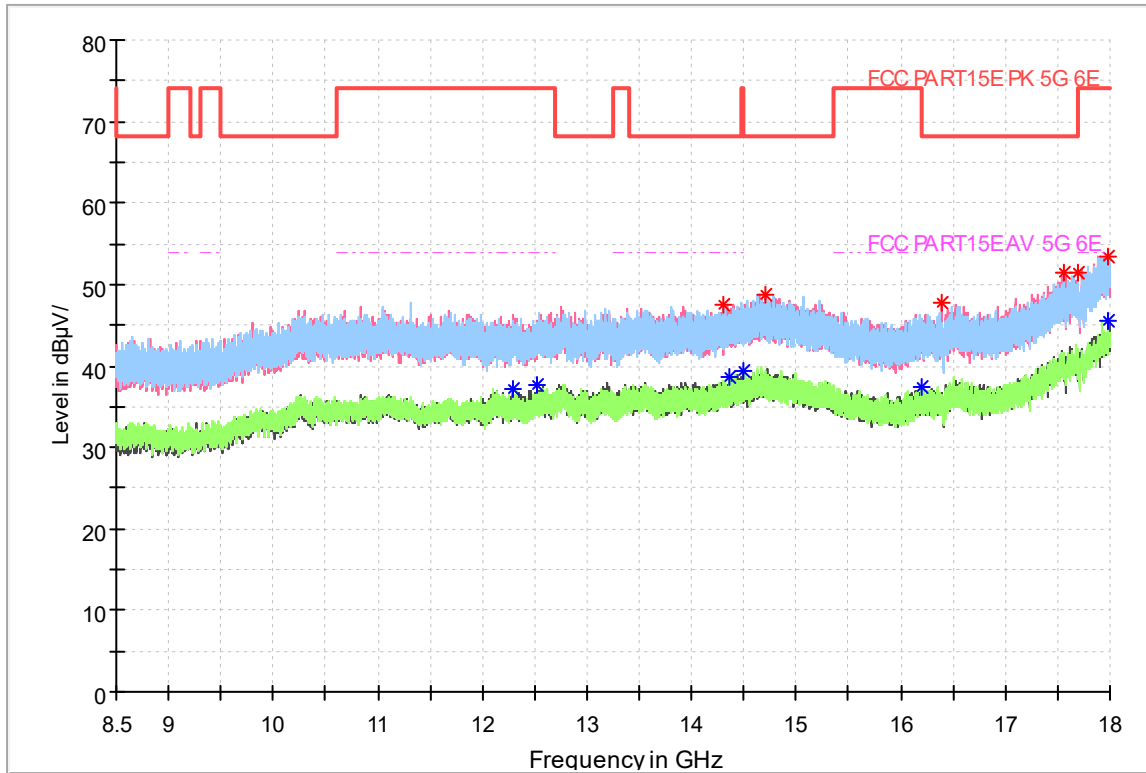


Fig.79 Radiated emission: 11ax 160M, Ch175, 8.5GHz-18GHz

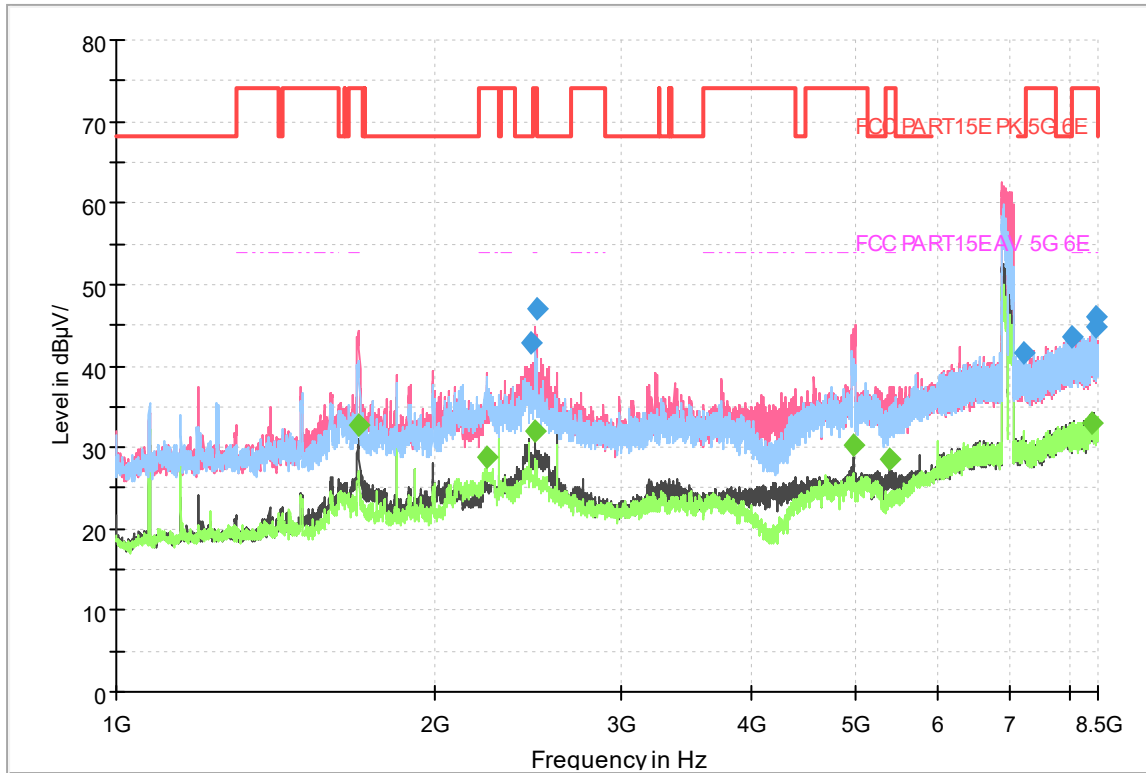


Fig.80 Radiated emission: 11ax 160M, Ch207, 1GHz-8.5GHz

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1697.510000	---	32.74	54.00	21.26	50.0	1000.000	150.0	V	0.0	-11.4
2245.772500	---	28.77	54.00	25.23	50.0	1000.000	150.0	H	90.0	-10.0
2466.137500	42.85	---	68.20	25.35	50.0	1000.000	150.0	V	180.0	-9.4
2491.045000	---	31.97	54.00	22.03	50.0	1000.000	150.0	V	90.0	-9.3
2497.000000	47.02	---	74.00	26.98	50.0	1000.000	150.0	V	180.0	-9.2
4989.087500	---	30.29	54.00	23.71	50.0	1000.000	150.0	V	180.0	-2.7
5405.467500	---	28.56	54.00	25.44	50.0	1000.000	150.0	V	0.0	-1.4
7243.912500	41.62	---	68.20	26.58	50.0	1000.000	150.0	V	180.0	2.6
8029.368000	43.50	---	74.00	30.50	50.0	1000.000	150.0	H	90.0	5.2
8404.229000	---	33.01	54.00	20.99	50.0	1000.000	150.0	V	180.0	5.7
8460.769500	44.85	---	74.00	29.15	50.0	1000.000	150.0	H	90.0	5.6
8466.500000	46.00	---	74.00	28.00	50.0	1000.000	150.0	V	270.0	5.5

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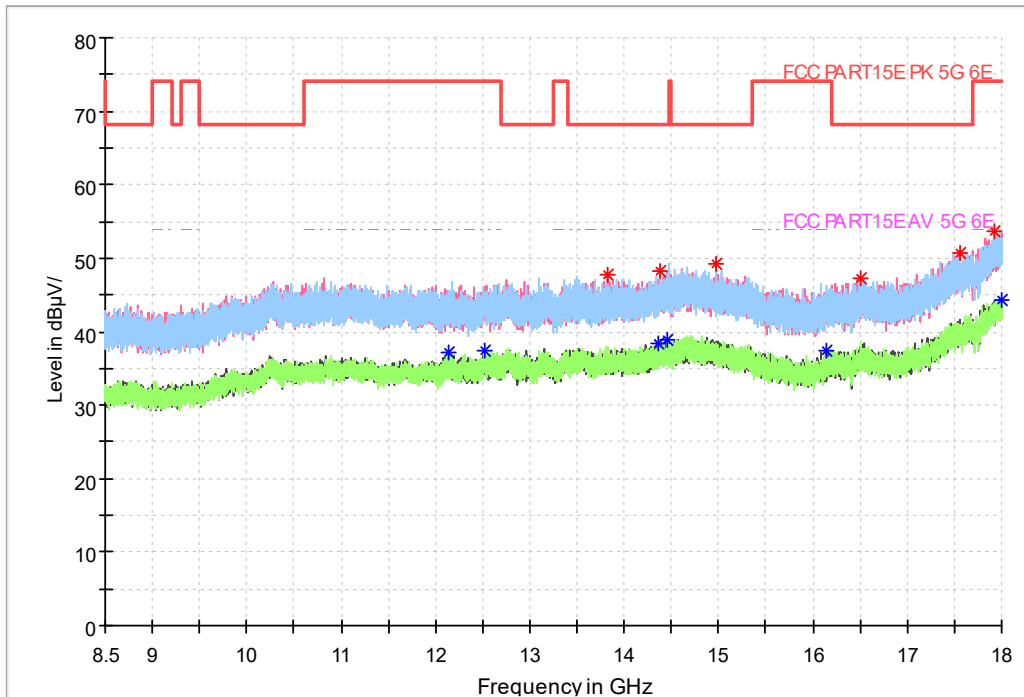


Fig.81 Radiated emission: 11ax 160M, Ch207, 8.5GHz-18GHz

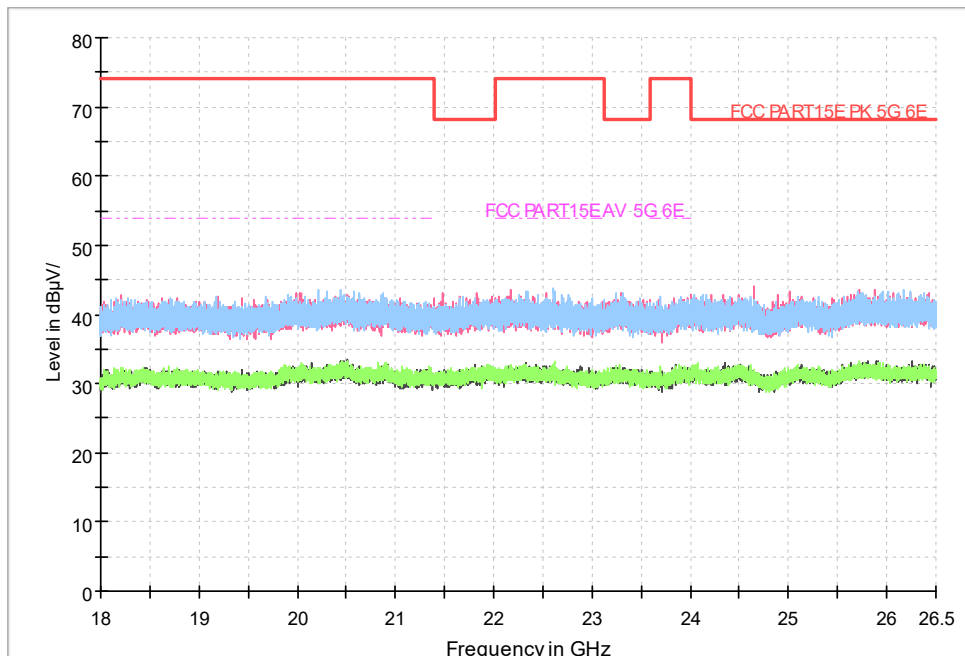


Fig.82 Radiated emission: 18GHz-26.5GHz

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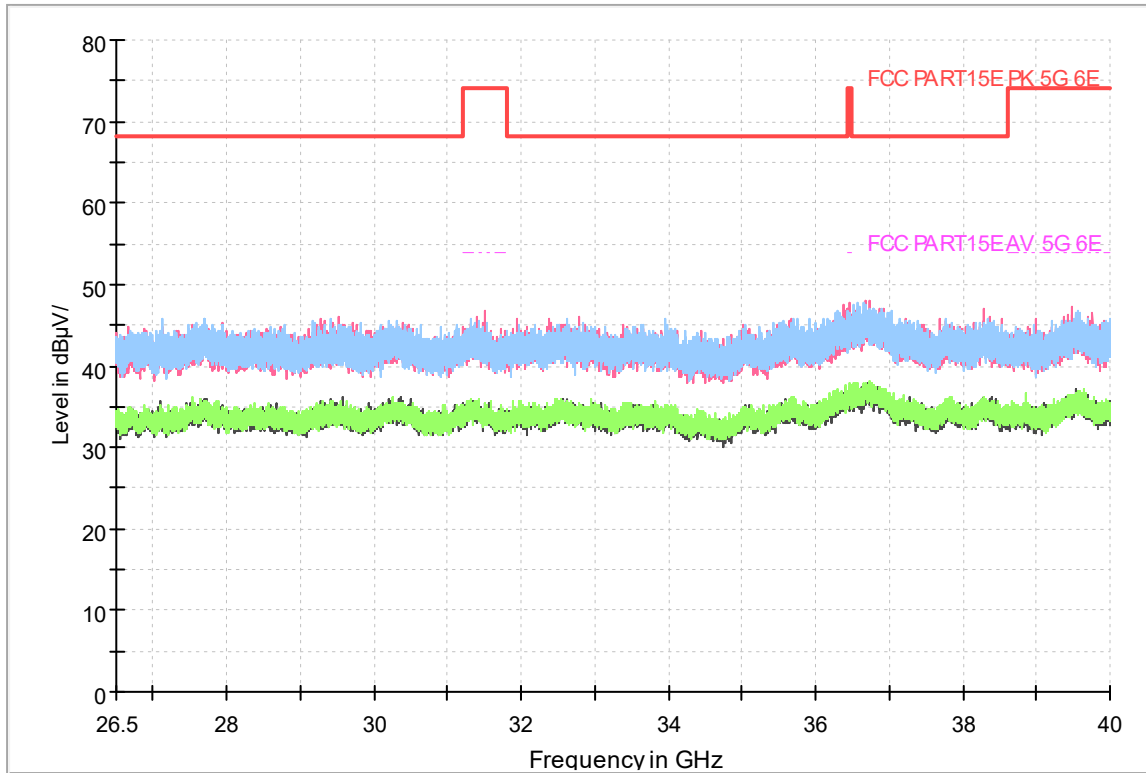


Fig.83 Radiated emission: 26.5GHz-40GHz

6.9. AC Powerline Conducted Emission (150kHz- 30MHz)

Specifications:	FCC Part 15. 407 b(9)
DUT Serial Number:	S2
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass
Test time:	2022.04.08-2022.09.14

Limit

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Measurement Uncertainty:

Frequency Range	Uncertainty
150 kHz to 30 MHz	1.83

Limits of the conducted disturbance at the AC mains ports:

Frequency range	Limit(Quasi-peak)	Limit(Average)
0.15 MHz to 0.5 MHz	66 dB μ V – 56 dB μ V	56 dB μ V – 46 dB μ V
>0.5 MHz to 5MHz	56 dB μ V	46 dB μ V
>5 MHz to 30 MHz	60 dB μ V	50 dB μ V

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

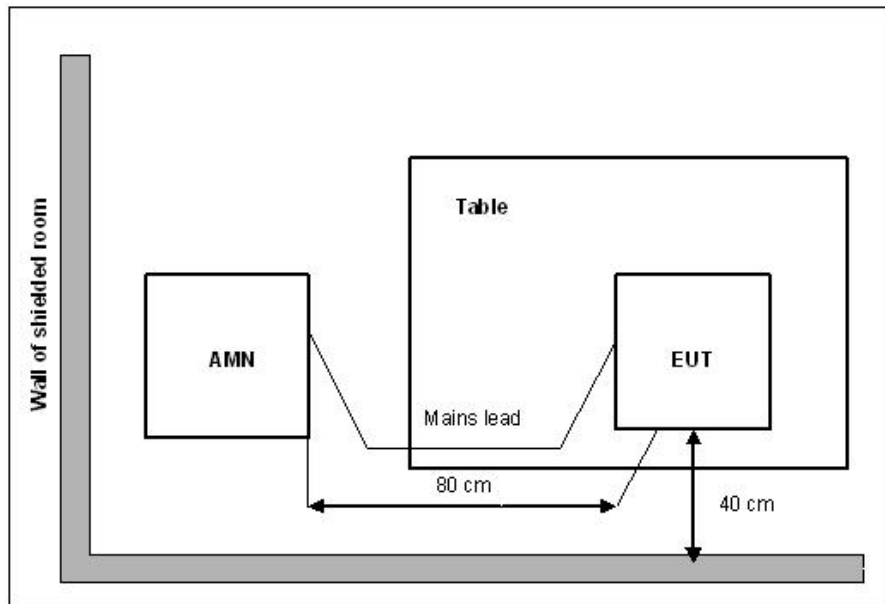
Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (LINE and NEUTRAL) and ground at the power terminals.

Test Setup

The EUT was placed in a shielding room. The ac adapter output is connected to Receiver through an AMN (Artificial Mains Network). All mode are tested, only worst case 802.11ax(5955MHz) test data is presented for this report.

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Test Procedure

1. The EUT is placed on a wooden table 80 cm above the reference ground plane.
2. The EUT is connected via LISN to a test power supply.
3. The measurement results are obtained as described below:
4. Detectors – Quasi Peak and Average Detector.

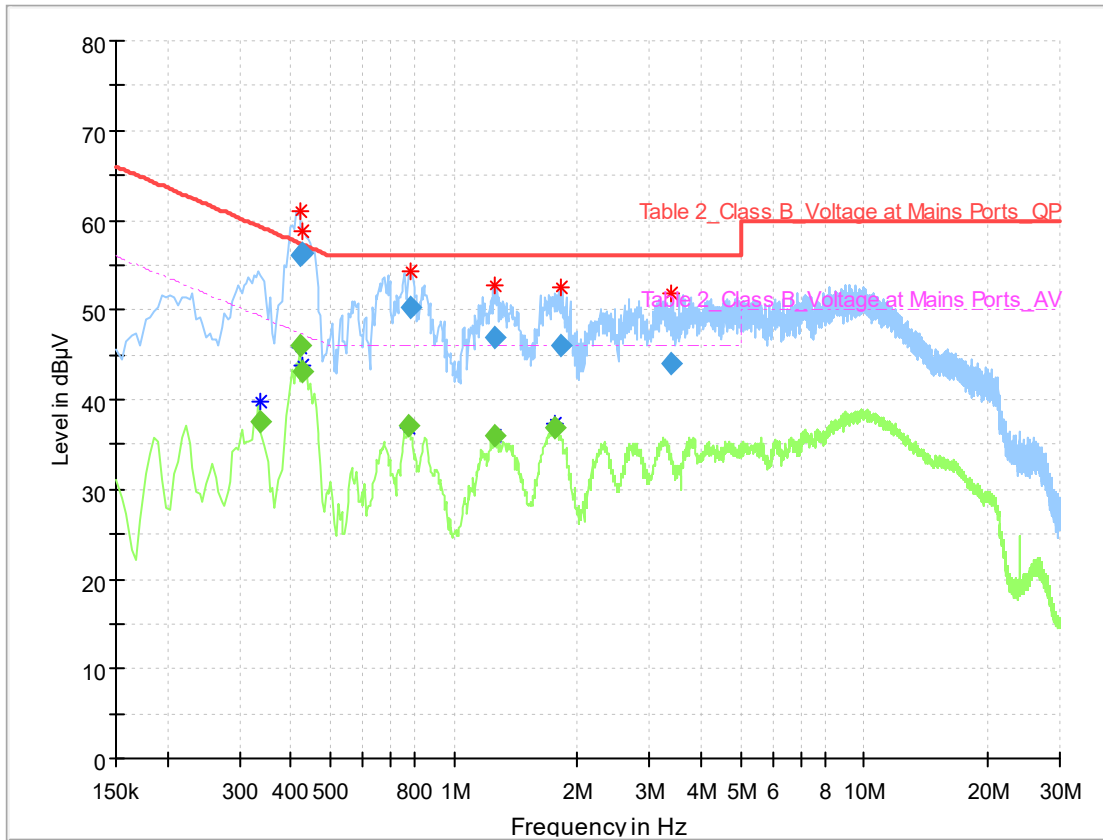
The measurement is made according to ANSI C63.10-2013.

Conclusion: PASS

Test Result:

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Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.339000	---	37.46	49.23	11.77	1000.0	9.000	N	9.9
0.420000	56.08	---	57.45	1.37	1000.0	9.000	N	9.9
0.424500	---	45.94	47.36	1.42	1000.0	9.000	N	9.9
0.429000	56.28	---	57.27	1.00	1000.0	9.000	N	9.9
0.429000	---	43.18	47.27	4.09	1000.0	9.000	N	9.9
0.771000	---	37.01	46.00	8.99	1000.0	9.000	N	9.8
0.780000	50.18	---	56.00	5.82	1000.0	9.000	N	9.8
1.252500	---	35.96	46.00	10.04	1000.0	9.000	N	9.8
1.257000	46.88	---	56.00	9.12	1000.0	9.000	N	9.8
1.765500	---	36.92	46.00	9.08	1000.0	9.000	N	9.9
1.828500	46.05	---	56.00	9.95	1000.0	9.000	N	9.9
3.376500	44.00	---	56.00	12.00	1000.0	9.000	N	10.0

Line L& N

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Annex A EUT Photos

See the document” I22W00019-External Photos”.

See the document” I22W00019-Internal Photos ”.

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ANNEX B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

END OF REPORT

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