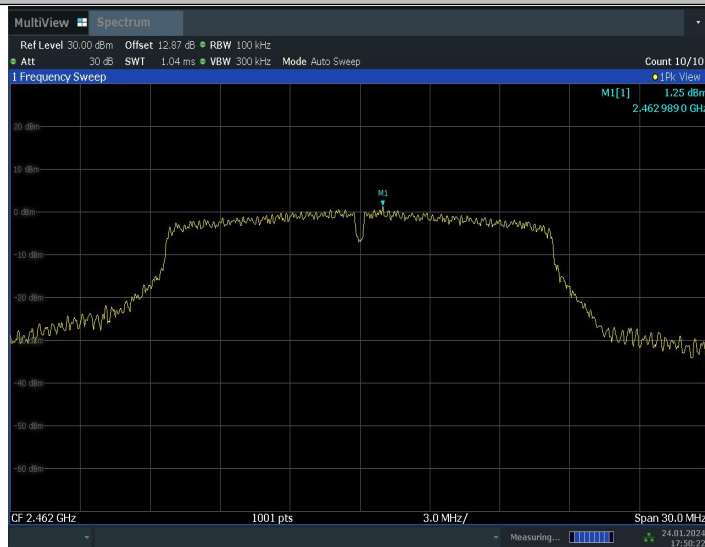


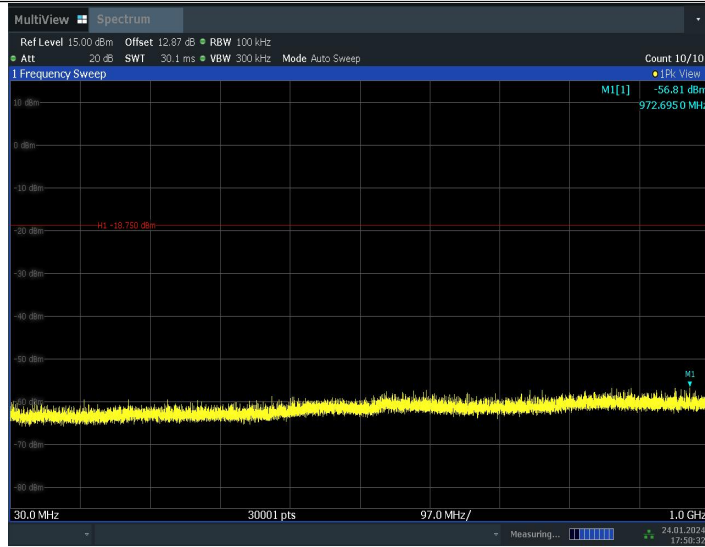
17:49:34 24.01.2024

11G_2462_0~Reference



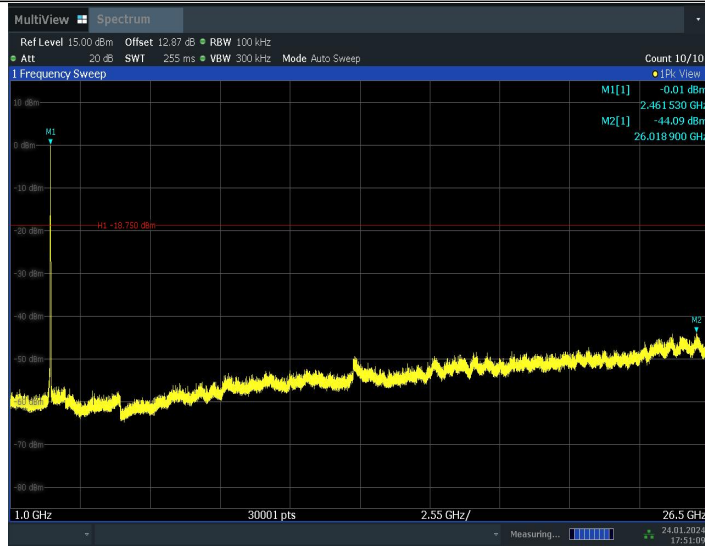
17:50:22 24.01.2024

11G_2462_30~1000



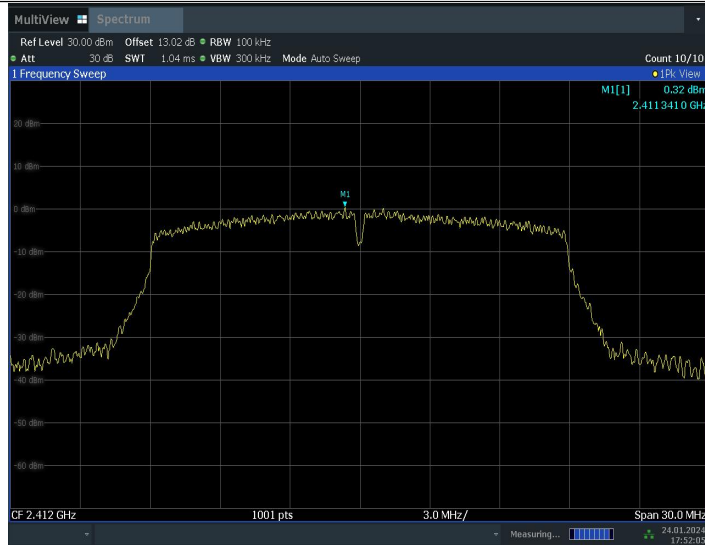
17:50:33 24.01.2024

11G_2462_1000~26500



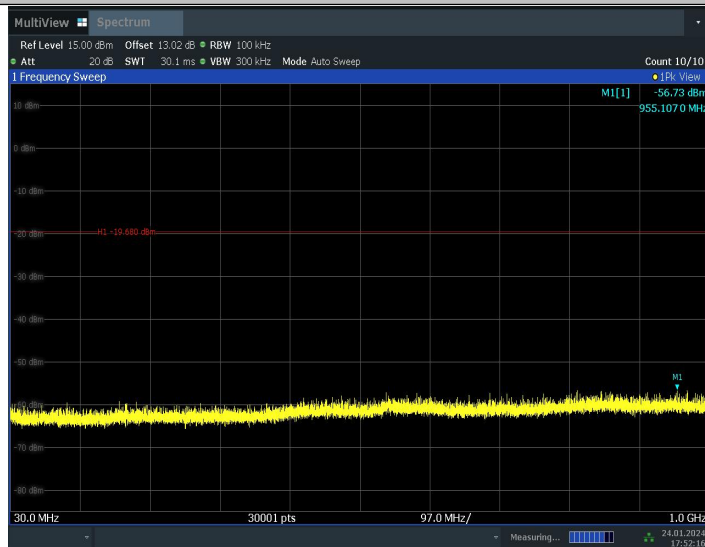
17:51:09 24.01.2024

11N20SISO_2412_0~Reference



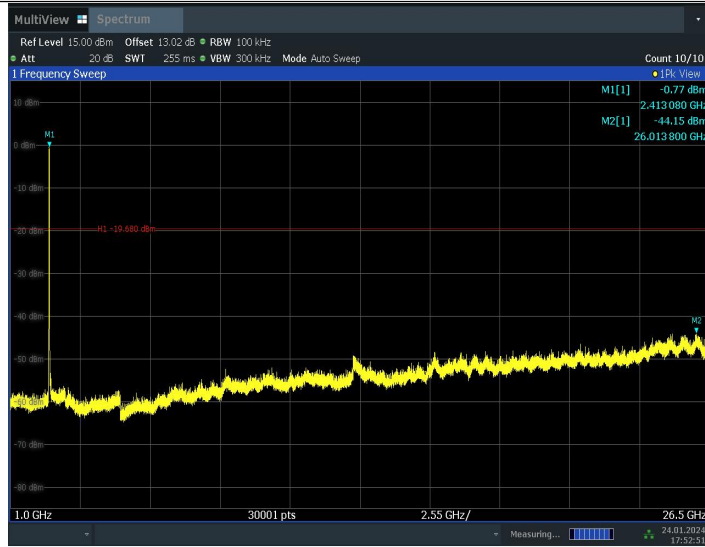
17:52:05 24.01.2024

11N20SISO_2412_30~1000

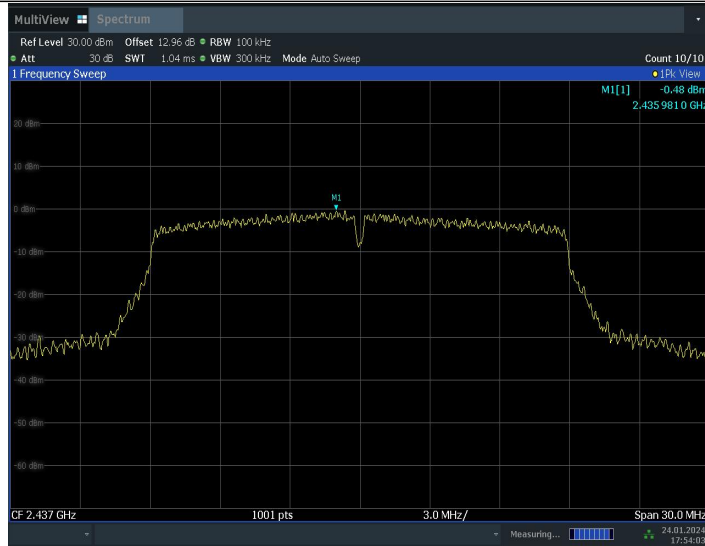


17:52:16 24.01.2024

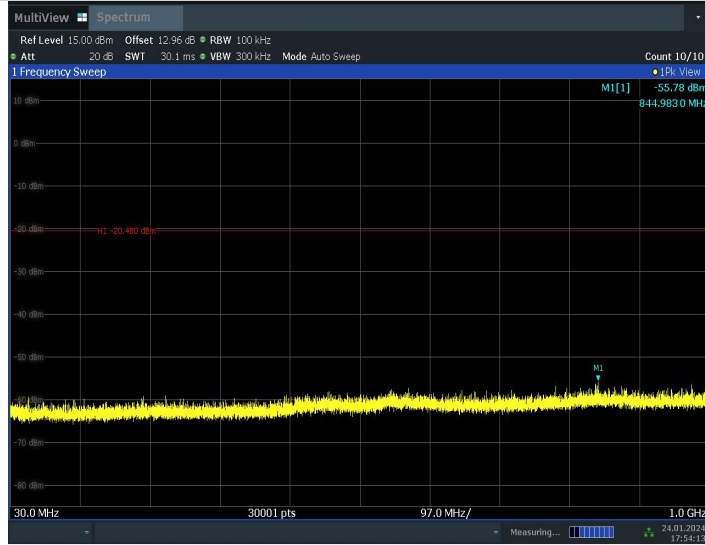
11N20SISO_2412_1000~26500



11N20SISO_2437_0~Reference

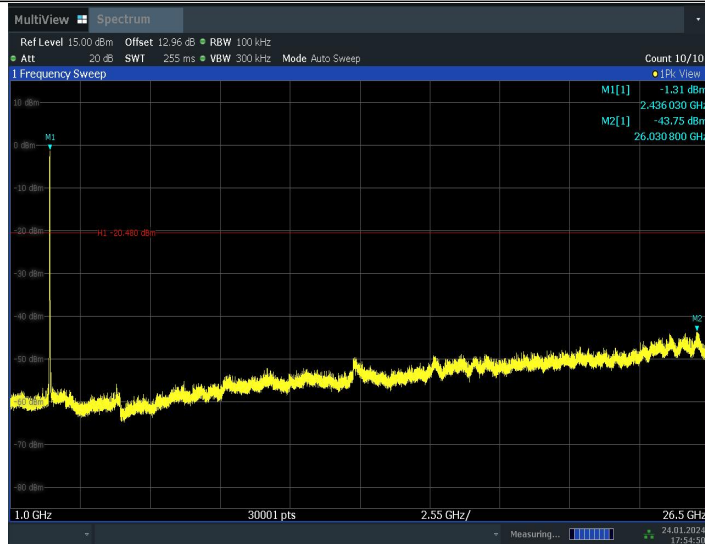


11N20SISO_2437_30~1000



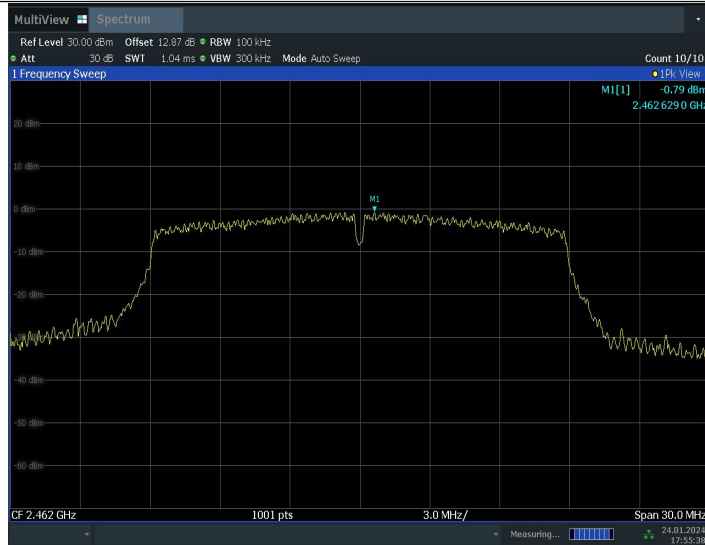
17:54:14 24.01.2024

11N20SISO_2437_1000~26500



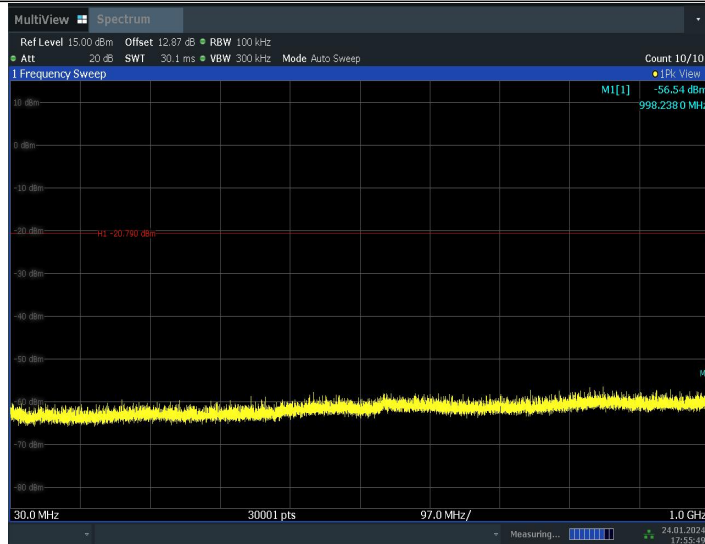
17:54:50 24.01.2024

11N20SISO_2462_0~Reference



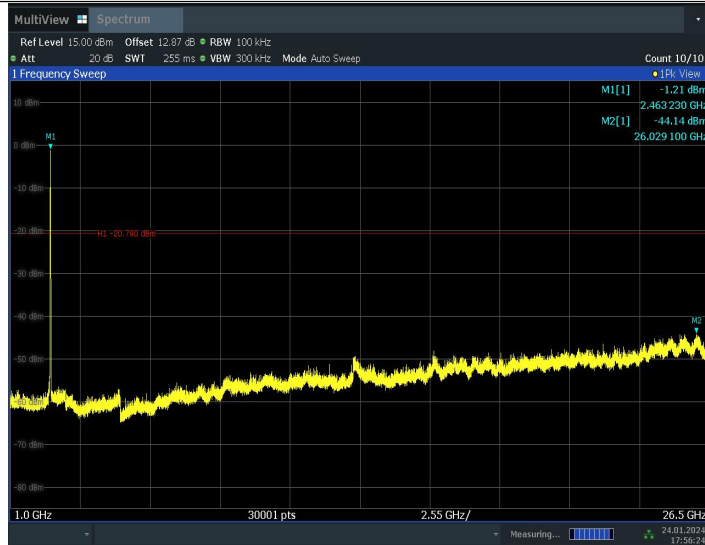
17:55:38 24.01.2024

11N20SISO_2462_30~1000



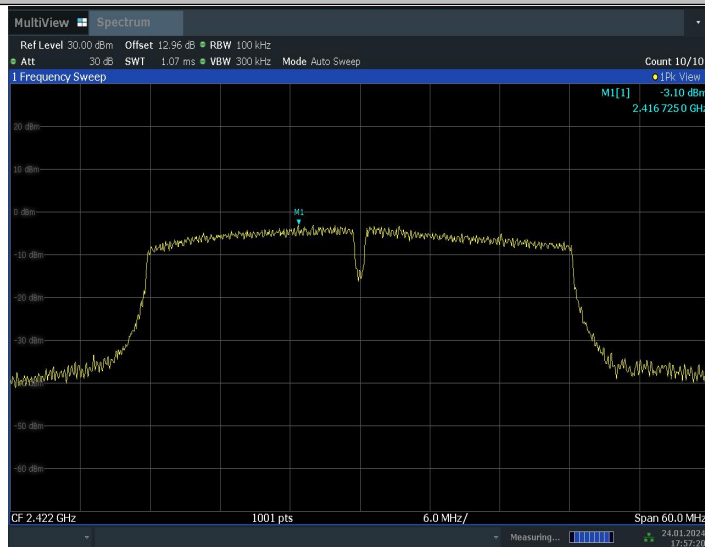
17:55:49 24.01.2024

11N20SISO_2462_1000~26500



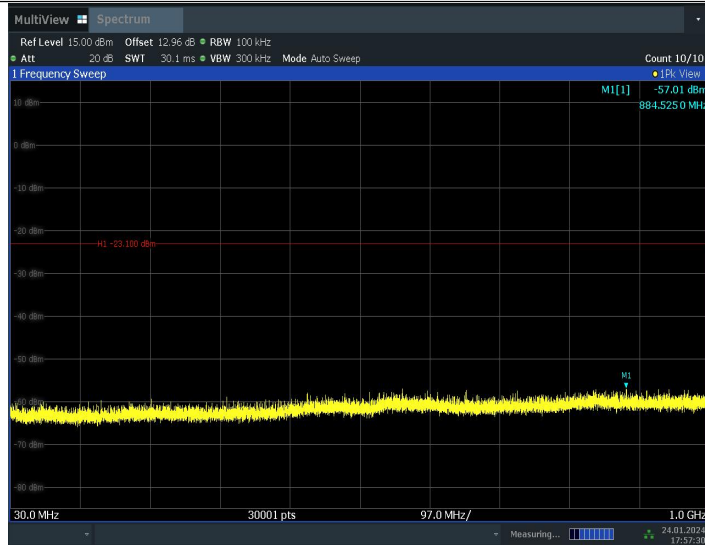
17:56:25 24.01.2024

11N40SISO_2422_0~Reference



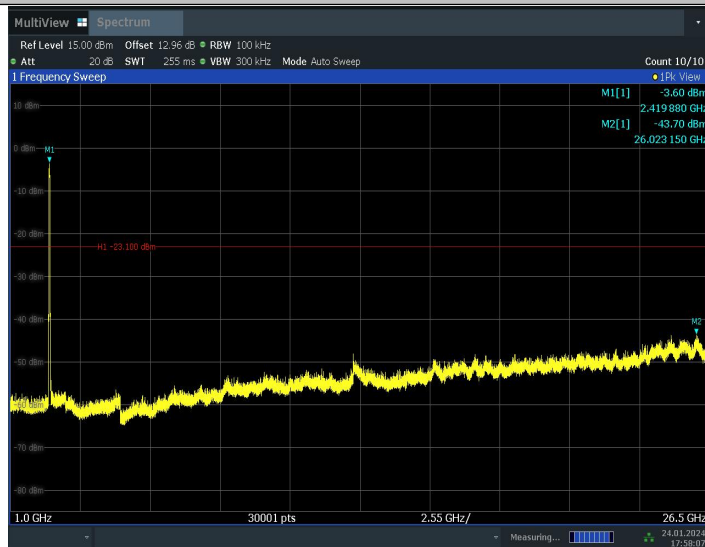
17:57:20 24.01.2024

11N40SISO_2422_30~1000



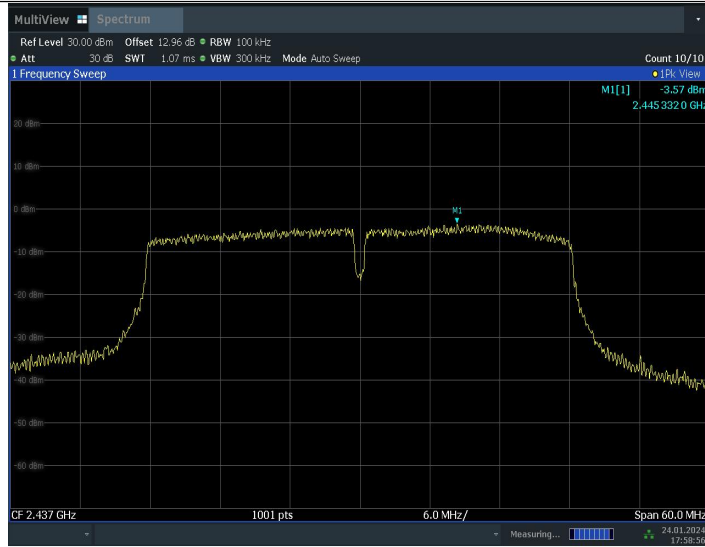
17:57:31 24.01.2024

11N40SISO_2422_1000~26500



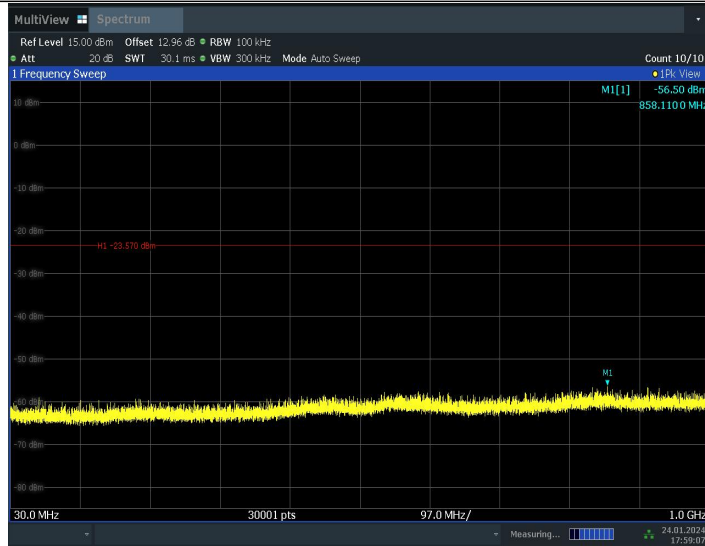
17:58:07 24.01.2024

11N40SISO_2437_0~Reference



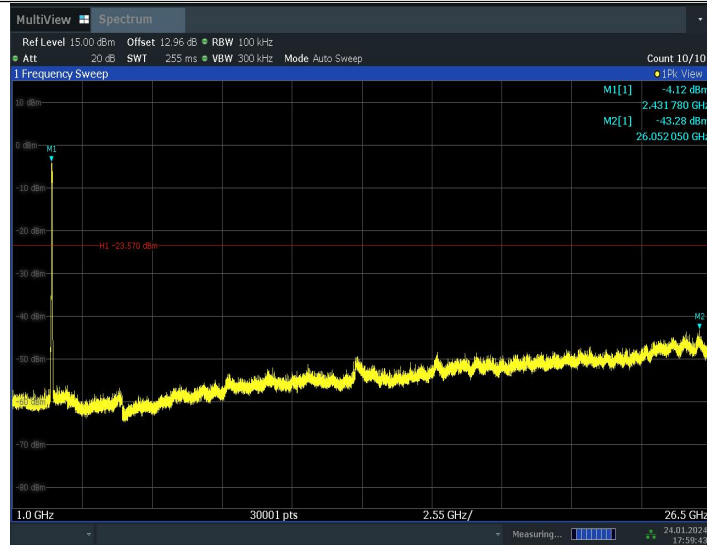
17:58:57 24.01.2024

11N40SISO_2437_30~1000



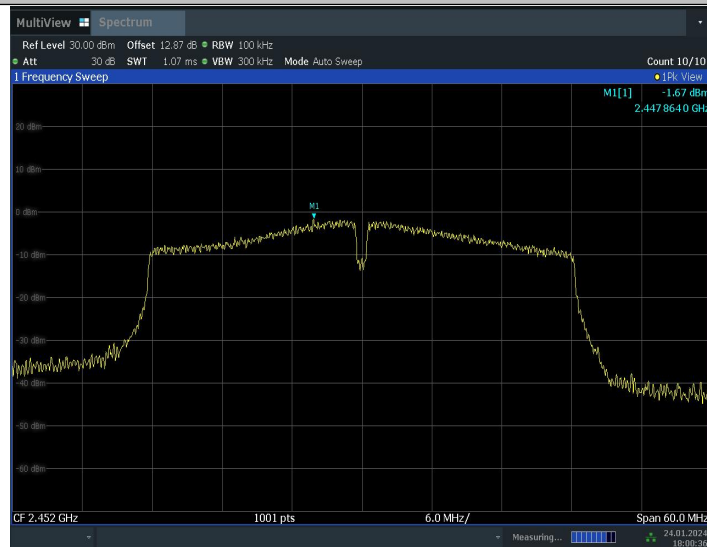
17:59:08 24.01.2024

11N40SISO_2437_1000~26500



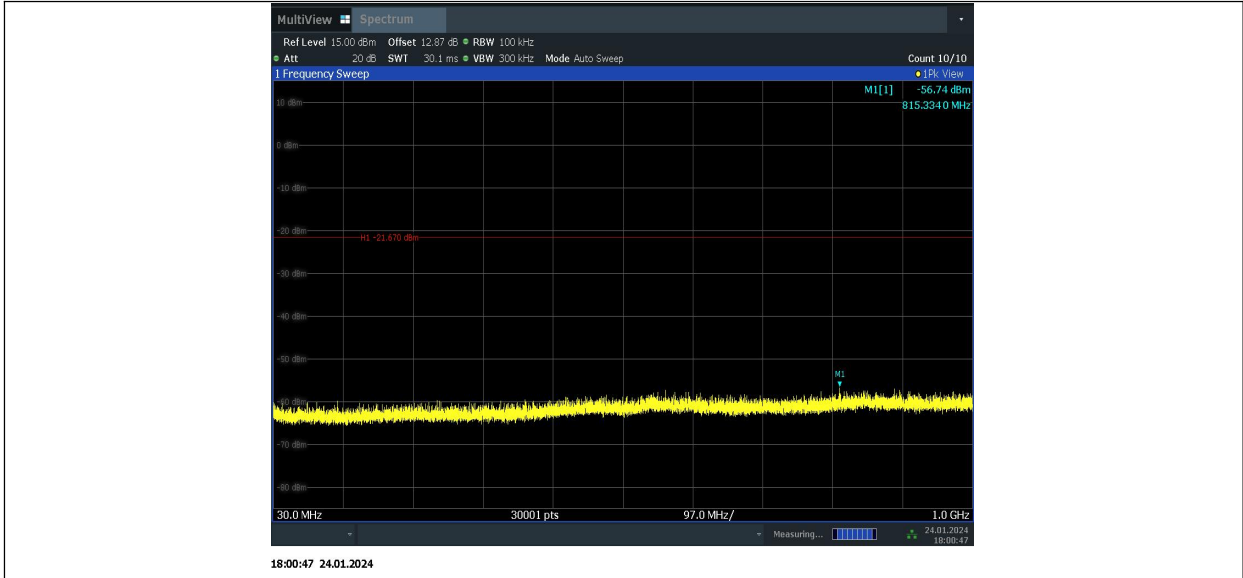
17:59:44 24.01.2024

11N40SISO_2452_0~Reference



18:00:36 24.01.2024

11N40SISO_2452_30~1000



11N40SISO_2452_1000~26500



Conclusion: Pass

A.7. Radiated Unwanted Emission

Limits

Measurement Limit

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band

Frequency (MHz)	Field strength($\mu\text{V}/\text{m}$)	Measurement distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength ($\mu\text{V}/\text{m}$)	Field strength (dB $\mu\text{V}/\text{m}$)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor.

Test setup

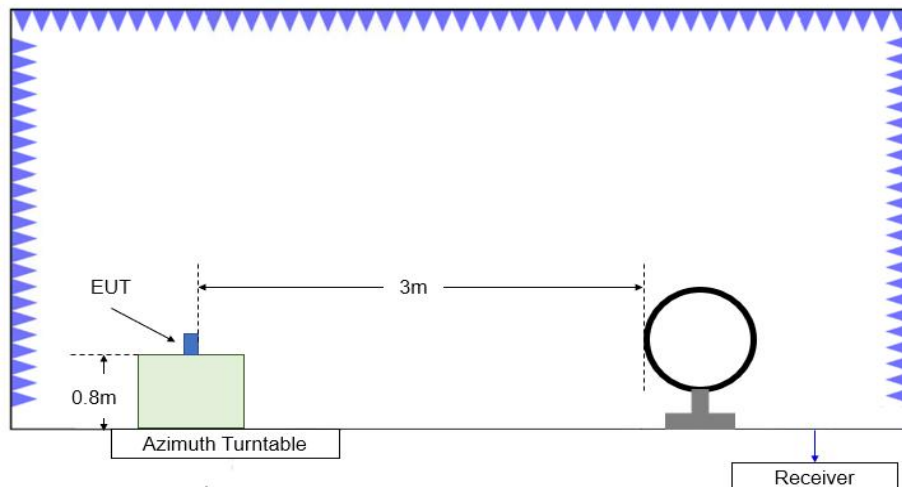


Figure A.7.1. Test Site Diagram (9kHz-30MHz)

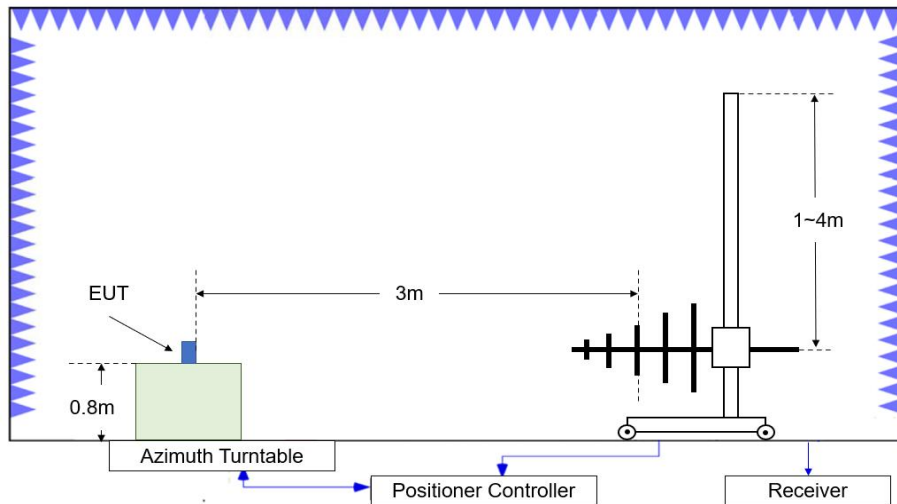


Figure A.7.2. Test Site Diagram (30MHz-1GHz)

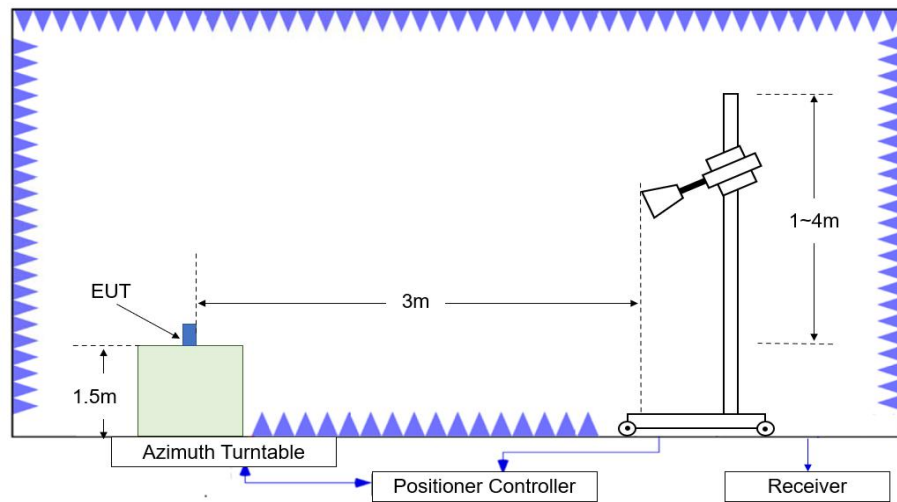


Figure A.7.3. Test Site Diagram (1GHz-40GHz)

Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10.

Test setting

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-3000	1MHz/3MHz	15
3000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Sample Calculation

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.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{\text{Mea}} + A_{\text{Rpl}} = P_{\text{Mea}} + \text{Cable Loss} + \text{Antenna Factor}$$

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.

Test Result

Peak

802.11b

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
4824	52.49	-37.7	33	57.19	74	21.51	H
17876	50.61	-29.4	46	34.01	74	23.39	V
14735	47.54	-30.2	41.4	36.44	74	26.46	H
11927	44.8	-32.4	39.1	38.1	74	29.2	V
9722.5	43.07	-34.5	37.8	39.77	74	30.93	V
2386.5	56.12	-19.8	28.2	47.72	74	17.88	V

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
4874	54.75	-37.5	33.4	58.85	74	19.25	H
17981	52.08	-29.4	46	35.48	74	21.92	H
14731	47.47	-30.2	41.4	36.37	74	26.53	V
12967.5	45.11	-31.4	40	36.51	74	28.89	H
8772	43.01	-34.2	37.9	39.31	74	30.99	H
7987.5	41.58	-35.4	36.9	40.08	74	32.42	V

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
4923.5	53.27	-37.6	33.3	57.57	74	20.73	H
17942.5	51.69	-29.4	46	35.09	74	22.31	V



No.23T04Z80846-11

14412	46.64	-30.1	41.9	34.84	74	27.36	V
12833	44.14	-31.9	39.9	36.14	74	29.86	V
8568.5	43.18	-35	37.5	40.68	74	30.82	H
2486.6	58.6	-19.7	28.2	50.1	74	15.4	V

802.11g

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17994	51.2	-29.4	46	34.6	74	22.8	V
14085	46.94	-30.2	41.7	35.44	74	27.06	V
4829.5	44.46	-37.7	33	49.16	74	29.54	H
11387	44.39	-32.6	39	37.99	74	29.61	V
9732.5	43.48	-34.5	37.8	40.18	74	30.52	V
2389.5	63.71	-19.8	28.2	55.31	74	10.29	H

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17950.5	50.95	-29.4	46	34.35	74	23.05	H
14279	47.13	-29.9	41.8	35.23	74	26.87	V
4867.5	46.47	-37.5	33.4	50.57	74	27.53	H
12903.5	45.26	-31.5	40	36.76	74	28.74	V
9498	43.13	-34.6	37.7	40.03	74	30.87	V
7580.5	42.11	-35.6	36.3	41.41	74	31.89	V

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17946.5	51.19	-29.4	46	34.59	74	22.81	V
14686	47.44	-30	41.5	35.94	74	26.56	V
12405	44.83	-31.9	38.9	37.83	74	29.17	V
4930	44.7	-37.6	33.3	49	74	29.3	H
9526.5	43.44	-33.8	37.6	39.64	74	30.56	V
2485.2	62.8	-19.7	28.2	54.3	74	11.2	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17955	50.94	-29.4	46	34.34	74	23.06	V
14704.5	47.58	-30.2	41.4	36.48	74	26.42	V
12428	44.08	-31.5	39	36.58	74	29.92	V
7893.5	43.44	-35.2	36.7	41.94	74	30.56	V
8639	43.04	-34	37.5	39.54	74	30.96	V
2389.8	63.97	-19.8	28.2	55.57	74	10.03	H

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17951	51.42	-29.4	46	34.82	74	22.58	V
14705.5	47.83	-30.2	41.4	36.73	74	26.17	V
4868.5	47.05	-37.5	33.4	51.15	74	26.95	H
12397	44.78	-31.9	38.9	37.78	74	29.22	V
9374	43.01	-34.1	37.9	39.21	74	30.99	V
7980	41.64	-35.4	36.9	40.14	74	32.36	H

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17940	50.54	-29.4	46	33.94	74	23.46	V
14699.5	47.5	-30	41.5	36	74	26.5	H
12767	44.76	-31.8	39.6	36.86	74	29.24	V
9053.5	44.08	-34.3	37.8	40.58	74	29.92	V
4928.5	43.71	-37.6	33.3	48.01	74	30.29	H
2485.4	62.17	-19.7	28.2	53.67	74	11.83	H

802.11n-HT40

Ch3

Frequency (MHz)	Measurement Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17931.5	51.73	-29.4	46	35.13	74	22.27	V
14576.5	47.77	-29	41.9	34.87	74	26.23	V
12877.5	44.93	-31.5	40	36.43	74	29.07	H
8782	43.08	-34.2	37.9	39.38	74	30.92	V
4851.5	42.12	-37.5	33.4	46.22	74	31.88	H
2390	65.67	-19.8	28.2	57.27	74	8.33	V

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17958	51.26	-29.4	46	34.66	74	22.74	V
14695	47.75	-30	41.5	36.25	74	26.25	V
11959.5	44.96	-32.4	39	38.36	74	29.04	V
4861	44.09	-37.5	33.4	48.19	74	29.91	H
8733	43.36	-34.8	37.9	40.26	74	30.64	H
7890	41.78	-35.2	36.7	40.28	74	32.22	V

Ch9

Frequency (MHz)	Measurement Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17937	51.38	-29.4	46	34.78	74	22.62	V
14234	47.54	-30.6	41.8	36.44	74	26.46	V
12399.5	44.66	-31.9	38.9	37.66	74	29.34	V
8739	43.54	-34.8	37.9	40.44	74	30.46	V
7173.5	41.57	-35.6	35.9	41.27	74	32.43	V
2486.2	66.04	-19.7	28.2	57.54	74	7.96	H

Average
802.11b

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
4824	50.62	-37.7	33	55.32	54	3.38	H
17952	41.69	-29.4	46	25.09	54	12.31	V
14715.5	38.2	-30.2	41.4	27.1	54	15.8	V
11392.5	34.87	-32.6	39	28.47	54	19.13	V
9203	33.76	-34.7	37.7	30.76	54	20.24	V
2387.9	46.52	-19.8	28.2	38.12	54	7.48	V

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
4874	53.1	-37.5	33.4	57.2	54	0.9	H
17945.5	42.98	-29.4	46	26.38	54	11.02	V
14692	37.97	-30	41.5	26.47	54	16.03	V
11910.5	35.33	-32.4	39.1	28.63	54	18.67	V
9210	33.94	-34.3	37.6	30.64	54	20.06	V
7873	32.79	-35.2	36.7	31.29	54	21.21	V

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
4924	51.27	-37.6	33.3	55.57	54	2.73	H
17954.5	42.01	-29.4	46	25.41	54	11.99	V
14699.5	38.1	-30	41.5	26.6	54	15.9	H
12415.5	35.11	-31.9	38.9	28.11	54	18.89	V
8552	33.72	-34.3	37.4	30.62	54	20.28	H
2487.4	50.65	-19.7	28.2	42.15	54	3.35	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17960.5	42.63	-29.4	46	26.03	54	11.37	V
14701.5	38.89	-30	41.5	27.39	54	15.11	H
11916	35.48	-32.4	39.1	28.78	54	18.52	V
4827	35.36	-37.7	33	40.06	54	18.64	H
9408.5	33.76	-33.6	37.9	29.46	54	20.24	V
2388.9	49.69	-19.8	28.2	41.29	54	4.31	V

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17956	42.25	-29.4	46	25.65	54	11.75	V
14697.5	38.8	-30	41.5	27.3	54	15.2	V
4868	38.42	-37.5	33.4	42.52	54	15.58	H
12846.5	35.51	-31.9	39.9	27.51	54	18.49	V
8313	34.32	-34.9	37.1	32.12	54	19.68	V
7483	32.54	-35.1	36.4	31.24	54	21.46	V

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17982	42.22	-29.4	46	25.62	54	11.78	V
14718.5	39.22	-30.2	41.4	28.12	54	14.78	V
4930.5	36.81	-37.6	33.3	41.11	54	17.19	H
11875	35.6	-32.8	39.1	29.2	54	18.4	V
8732	34.4	-34.8	37.9	31.3	54	19.6	V
2485.1	50.25	-19.7	28.2	41.75	54	3.75	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17953.5	42.32	-29.4	46	25.72	54	11.68	V
14701	38.85	-30	41.5	27.35	54	15.15	H
12838.5	35.57	-31.9	39.9	27.57	54	18.43	V
4829.5	34.57	-37.7	33	39.27	54	19.43	H
9501.5	34.39	-34.6	37.7	31.29	54	19.61	V
2389.8	49.56	-19.8	28.2	41.16	54	4.44	H

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17955	42.38	-29.4	46	25.78	54	11.62	V
14726	38.37	-30.2	41.4	27.27	54	15.63	V
4866.5	36.56	-37.5	33.4	40.66	54	17.44	H
11386.5	35.72	-32.6	39	29.32	54	18.28	V
8729	34.01	-34.8	37.9	30.91	54	19.99	V
7316.5	32.51	-35.4	36.6	31.31	54	21.49	H

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17952.5	42.07	-29.4	46	25.47	54	11.93	H
14039.5	38.35	-31.1	41.6	27.85	54	15.65	H
4928.5	36.28	-37.6	33.3	40.58	54	17.72	H
11904.5	35.75	-32.4	39.1	29.05	54	18.25	V
9296.5	34.41	-34.5	37.6	31.31	54	19.59	V
2485	49.88	-19.7	28.2	41.38	54	4.12	H

802.11n-HT40

Ch3

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17963	42.15	-29.4	46	25.55	54	11.85	V
14727	38.61	-30.2	41.4	27.51	54	15.39	V
12922.5	35.77	-31.4	40	27.17	54	18.23	V
4842	34.67	-37.7	33	39.37	54	19.33	H
9197.5	34.15	-34.7	37.7	31.15	54	19.85	V
2387.9	53.94	-19.8	28.2	45.54	54	0.06	V

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17968.5	42.39	-29.4	46	25.79	54	11.61	V
14602	38.43	-29	41.9	25.53	54	15.57	V
11286	35.9	-33.2	38.6	30.5	54	18.1	V
4871	34.34	-37.5	33.4	38.44	54	19.66	H
8566	34.16	-35	37.5	31.66	54	19.84	V
7985.5	32.64	-35.4	36.9	31.14	54	21.36	V

Ch9

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17948.5	42.8	-29.4	46	26.2	54	11.2	V
14196	38.44	-30.2	41.7	26.94	54	15.56	V
11899.5	36.07	-32.4	39.1	29.37	54	17.93	V
8732.5	34.17	-34.8	37.9	31.07	54	19.83	V
7920	32.82	-35.2	36.7	31.32	54	21.18	V
2486	52.47	-19.7	28.2	43.97	54	1.53	V

Band edge compliance

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.31GHz~2.43GHz---L	Fig.7.4	P
	11	2.45GHz~2.50GHz---H	Fig.7.5	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.31GHz~2.43GHz---L	Fig.7.6	P
	11	2.45GHz~2.50GHz---H	Fig.7.7	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.31GHz~2.43GHz---L	Fig.7.8	P
	11	2.45GHz~2.50GHz---H	Fig.7.9	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	3	2.31GHz~2.43GHz---L	Fig.7.10	P
	9	2.45GHz~2.50GHz---H	Fig.7.11	P

Test graphs as below:

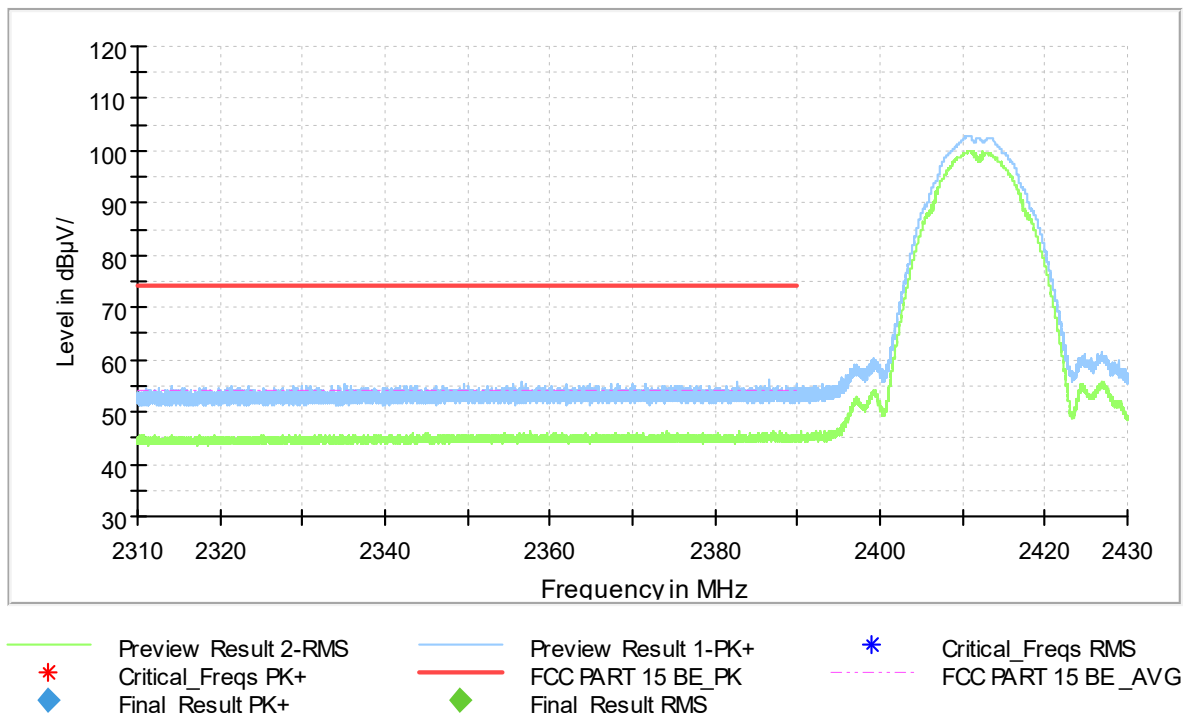


Fig.A.7.4 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz

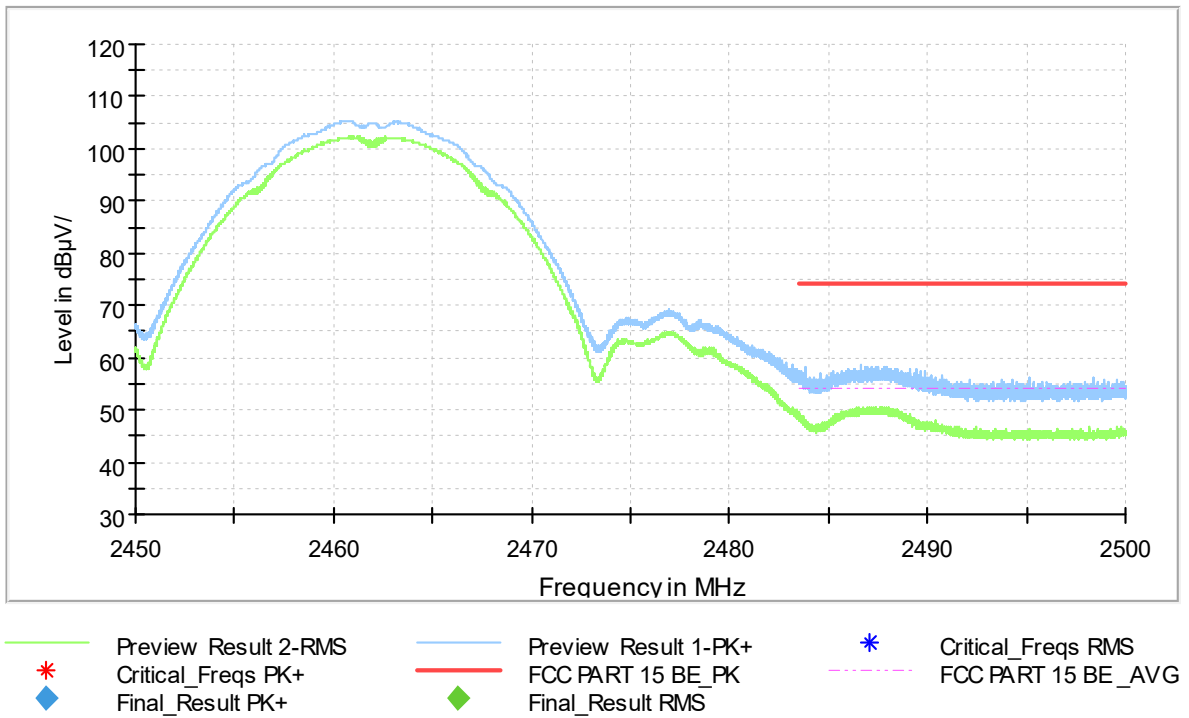


Fig.A.7.5 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

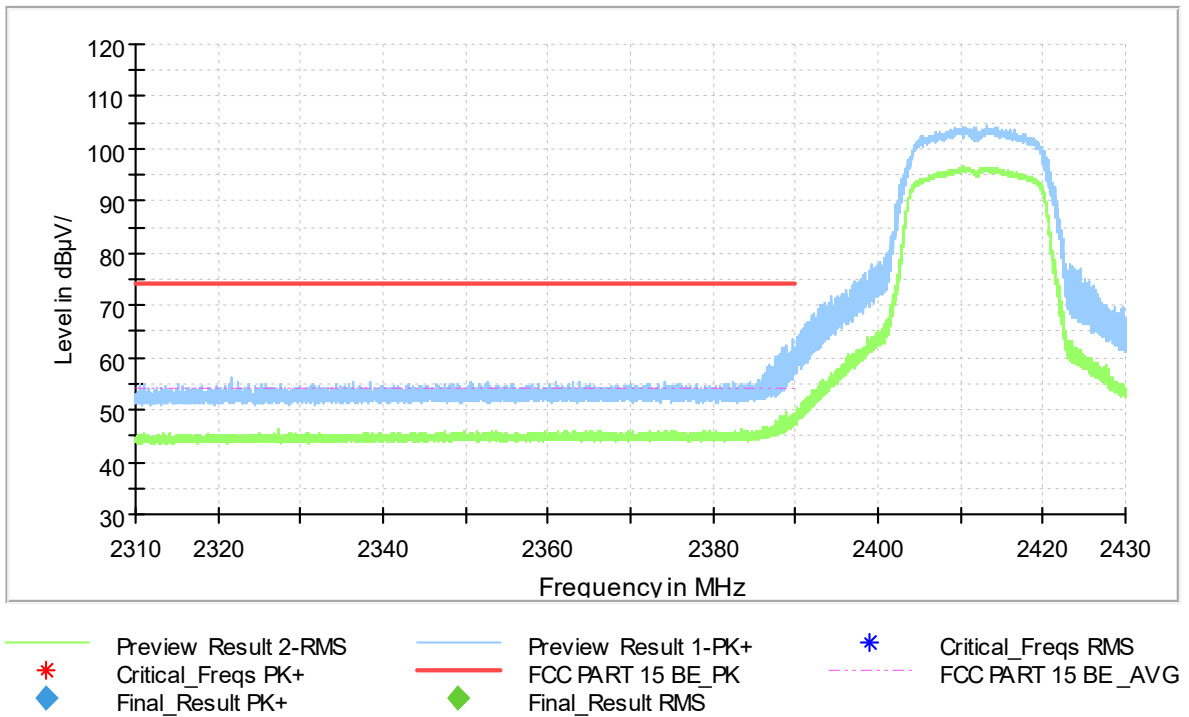


Fig.A.7.6 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

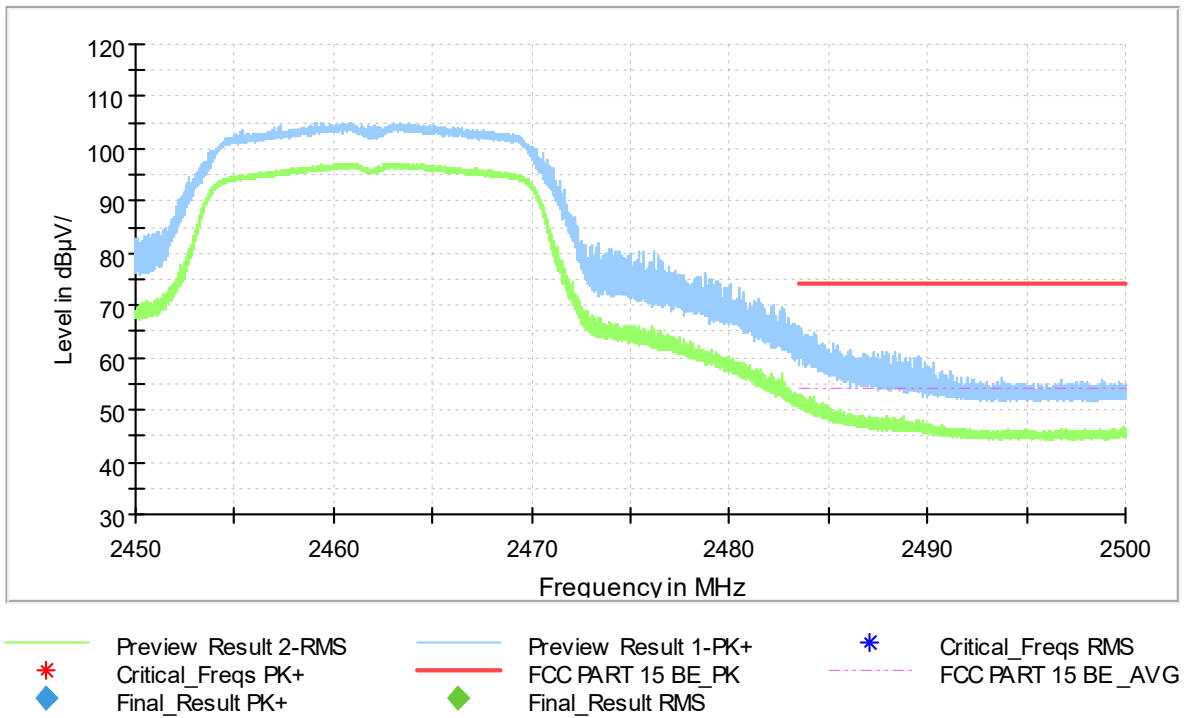


Fig.A.7.7 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

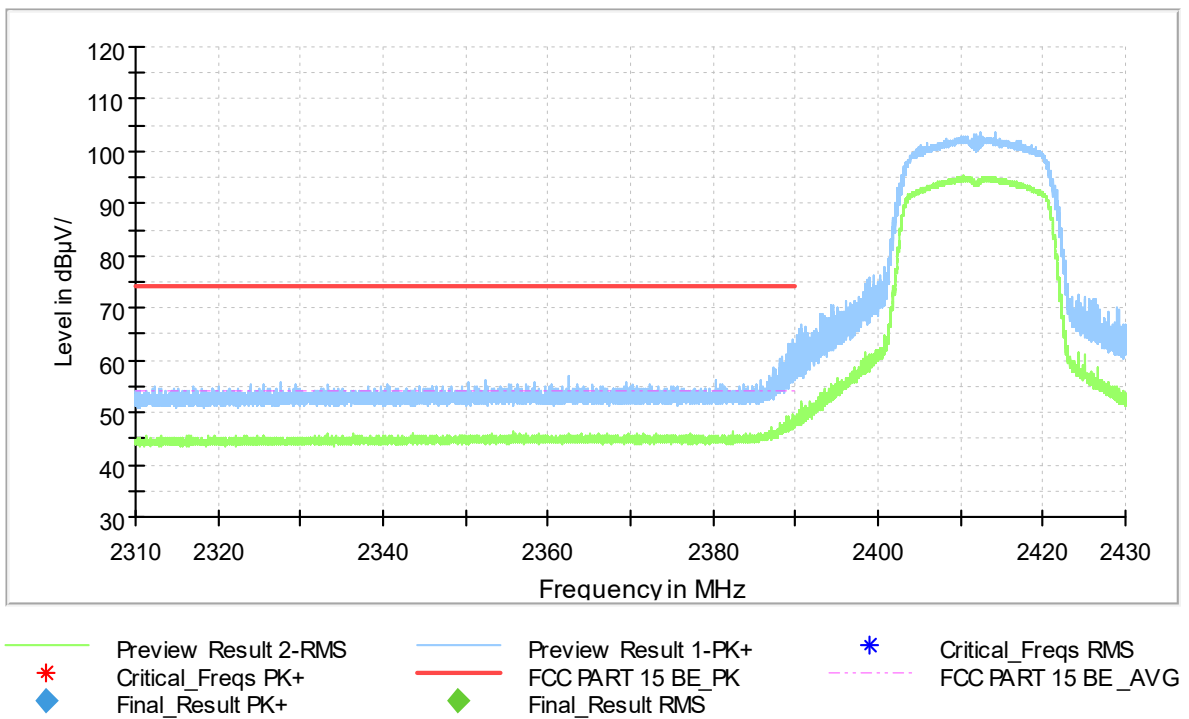


Fig.A.7.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31 GHz - 2.43GHz

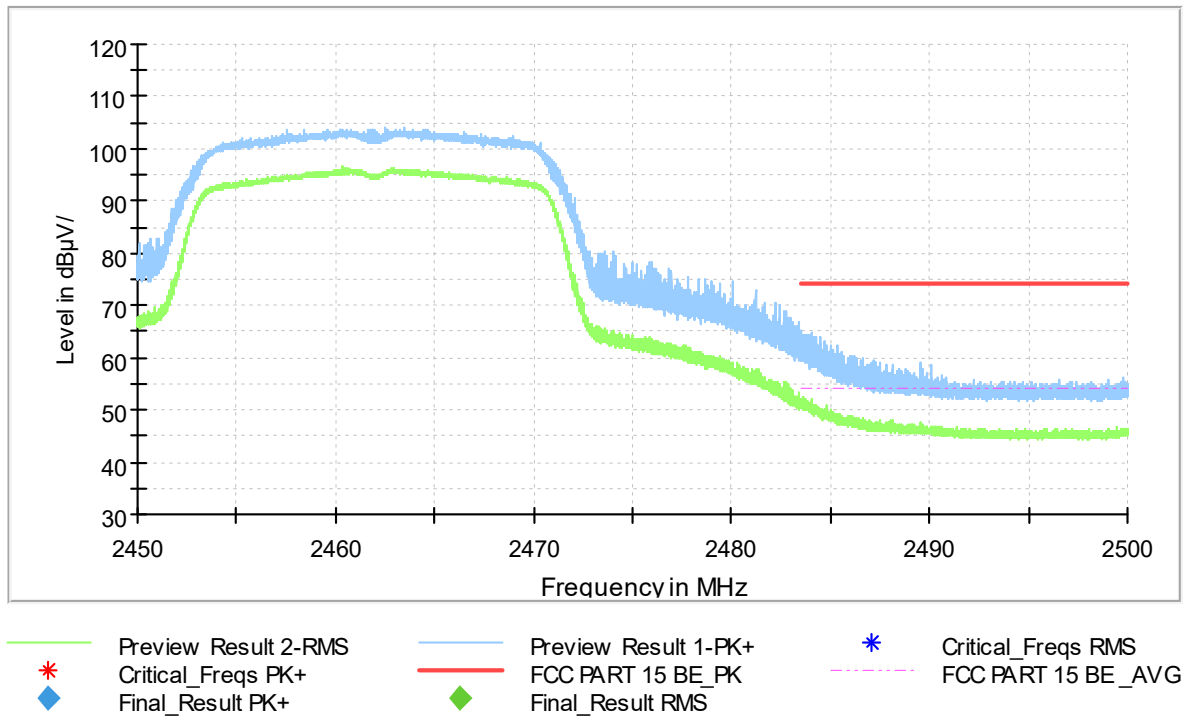


Fig.A.7.9 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

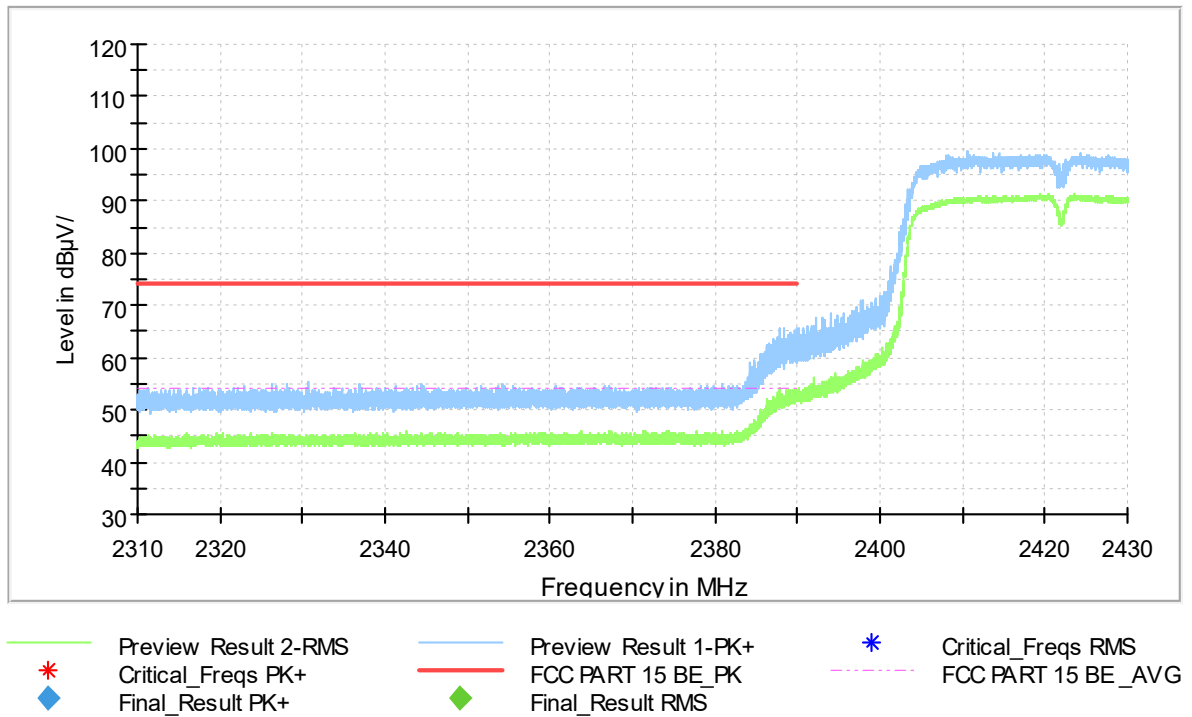


Fig.A.7.10 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.43GHz

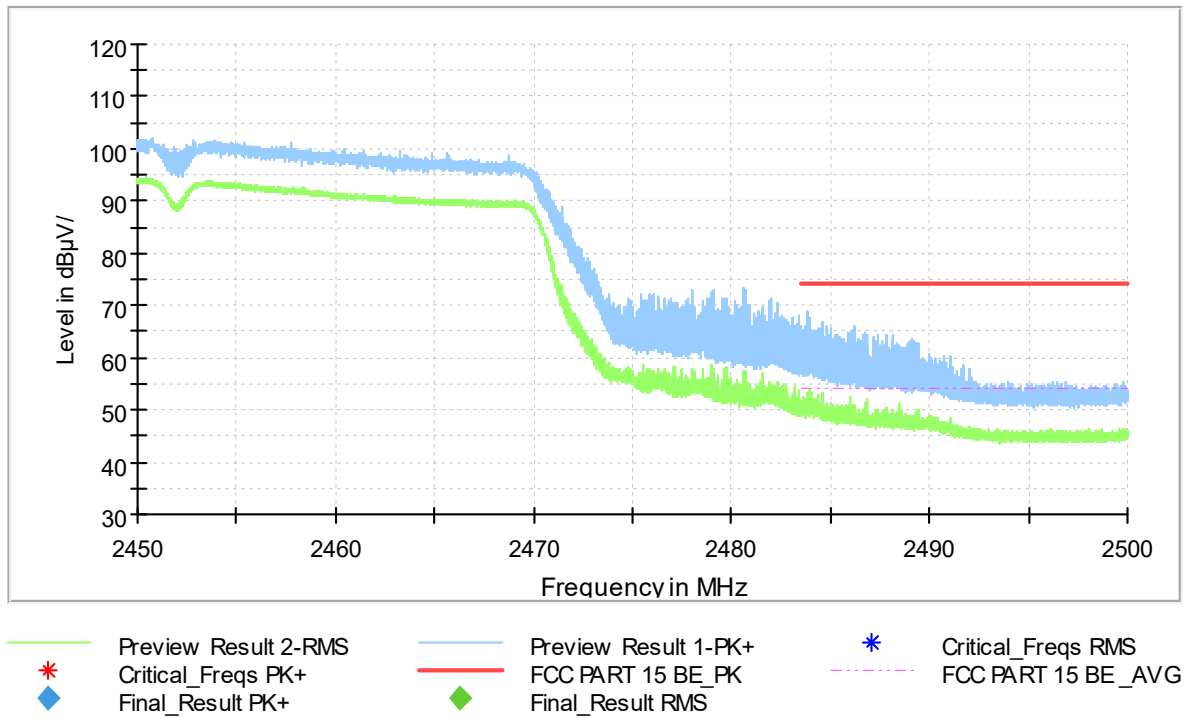


Fig.A.7.11 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

A.8. AC Power-line Conducted Emission

Summary

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section

Method of Measurement:

See Clause 6.2 of ANSI C63.10 specifically.

See Clause 4 and Clause 5 of ANSI C63.10 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

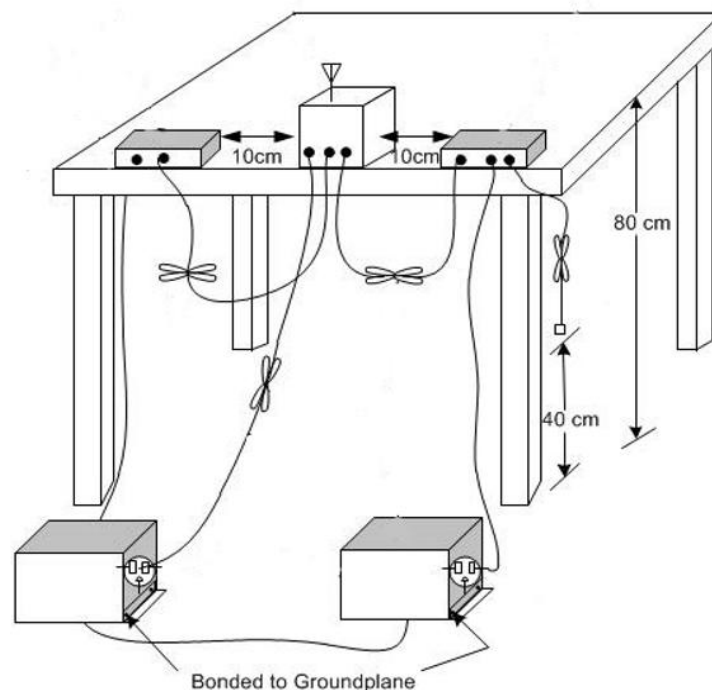
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth
0.15-30	9kHz

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Test setup



Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.8.1	Fig.A.8.2	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.8.1	Fig.A.8.2	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Conclusion: Pass
Test graphs as below:

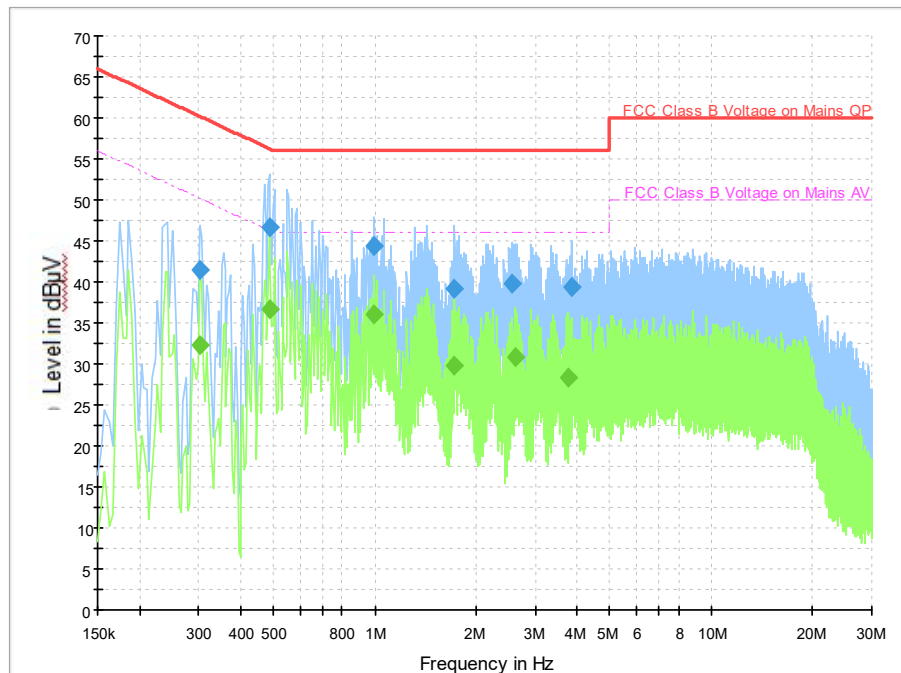


Fig.A.8.1 AC Powerline Conducted Emission-802.11b

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.302000	41.4	2000.0	9.000	On	L1	19.7	18.8	60.2
0.486000	46.7	2000.0	9.000	On	L1	19.7	9.5	56.2
0.998000	44.3	2000.0	9.000	On	L1	19.7	11.7	56.0
1.726000	39.1	2000.0	9.000	On	L1	19.6	16.9	56.0
2.554000	39.8	2000.0	9.000	On	L1	19.6	16.2	56.0
3.846000	39.3	2000.0	9.000	On	L1	19.6	16.7	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.302000	32.2	2000.0	9.000	On	L1	19.7	18.0	50.2
0.486000	36.7	2000.0	9.000	On	L1	19.7	9.6	46.2
0.998000	36.1	2000.0	9.000	On	L1	19.7	9.9	46.0
1.726000	29.8	2000.0	9.000	On	L1	19.6	16.2	46.0
2.614000	30.8	2000.0	9.000	On	L1	19.6	15.2	46.0
3.746000	28.3	2000.0	9.000	On	L1	19.6	17.7	46.0

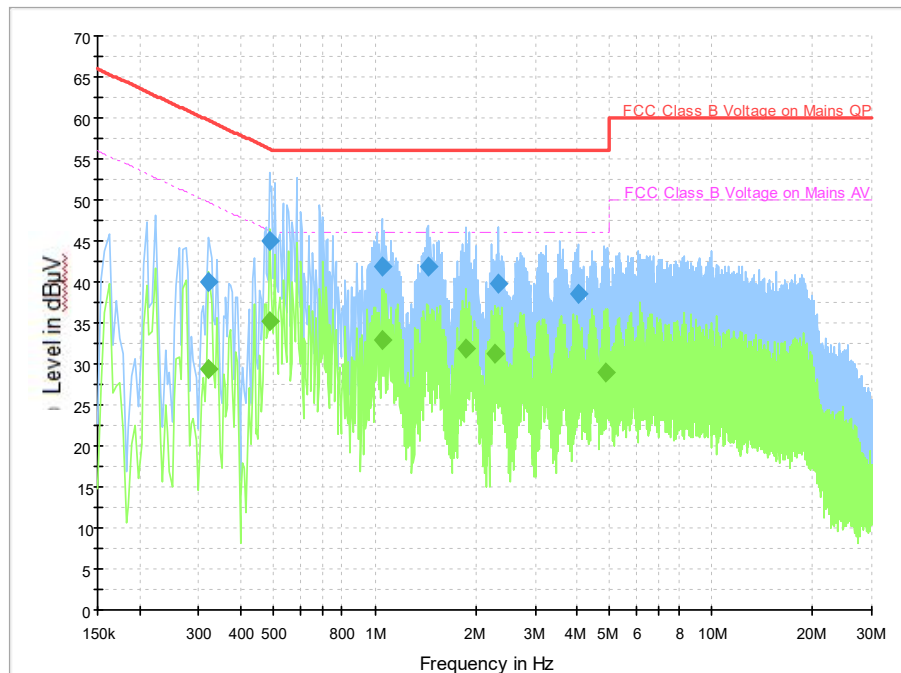


Fig.A.8.2 AC Powerline Conducted Emission-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.322000	39.9	2000.0	9.000	On	L1	19.7	19.7	59.7
0.486000	45.1	2000.0	9.000	On	L1	19.7	11.1	56.2
1.050000	41.8	2000.0	9.000	On	L1	19.7	14.2	56.0
1.438000	41.8	2000.0	9.000	On	L1	19.6	14.2	56.0
2.338000	39.7	2000.0	9.000	On	L1	19.6	16.3	56.0
4.010000	38.5	2000.0	9.000	On	L1	19.6	17.5	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.322000	29.3	2000.0	9.000	On	L1	19.7	20.3	49.7
0.486000	35.2	2000.0	9.000	On	L1	19.7	11.1	46.2
1.050000	32.8	2000.0	9.000	On	L1	19.7	13.2	46.0
1.858000	32.0	2000.0	9.000	On	L1	19.6	14.0	46.0
2.266000	31.2	2000.0	9.000	On	L1	19.6	14.8	46.0
4.854000	28.9	2000.0	9.000	On	L1	19.6	17.1	46.0

ANNEX B: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate



Accredited Laboratory

A2LA has accredited

TELECOMMUNICATION TECHNOLOGY LABS, CAICT
Beijing, People's Republic of China

for technical competence in the field of
Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 26th day of June 2023.



Mr. Trace McInturf, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7049.01
Valid to July 31, 2024

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

END OF REPORT