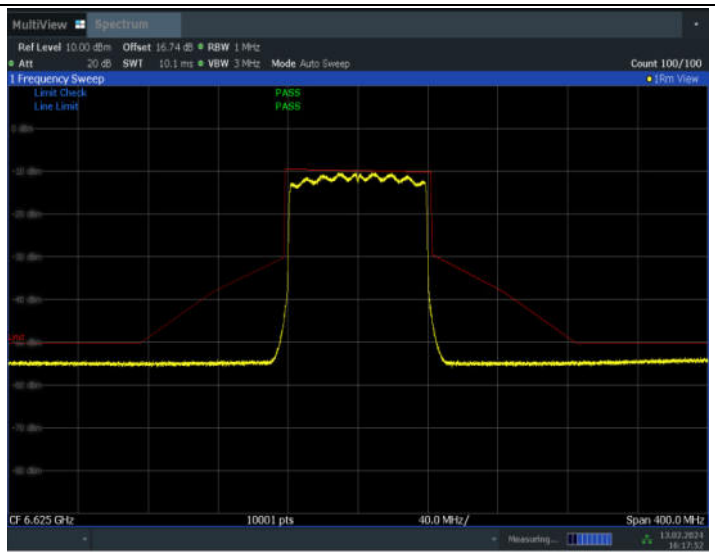
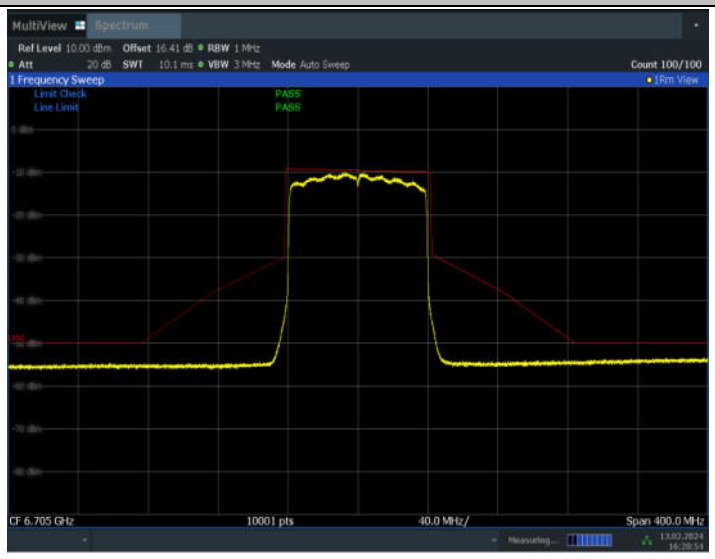


11AX80MIMO_Ant10_6705



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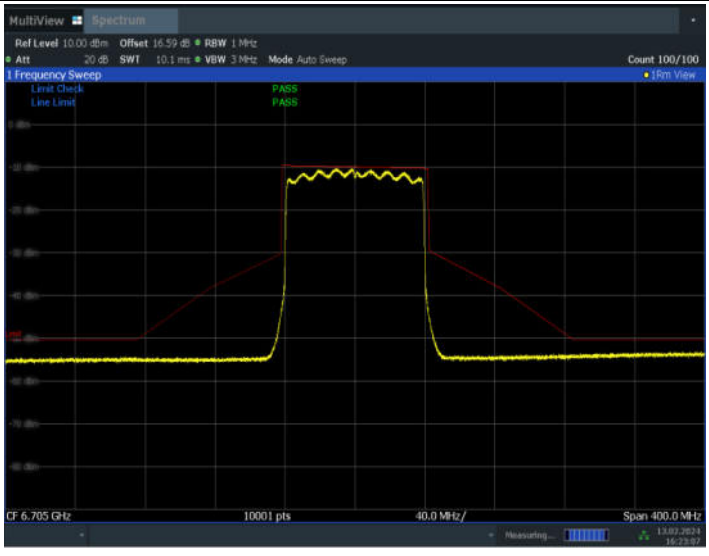

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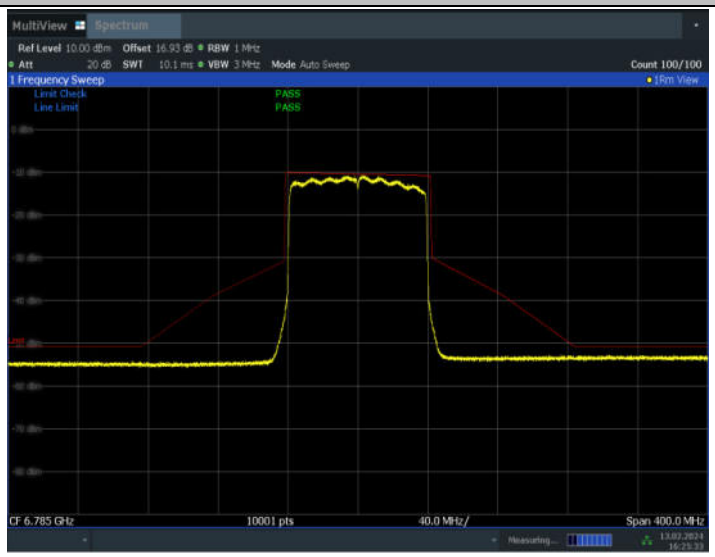
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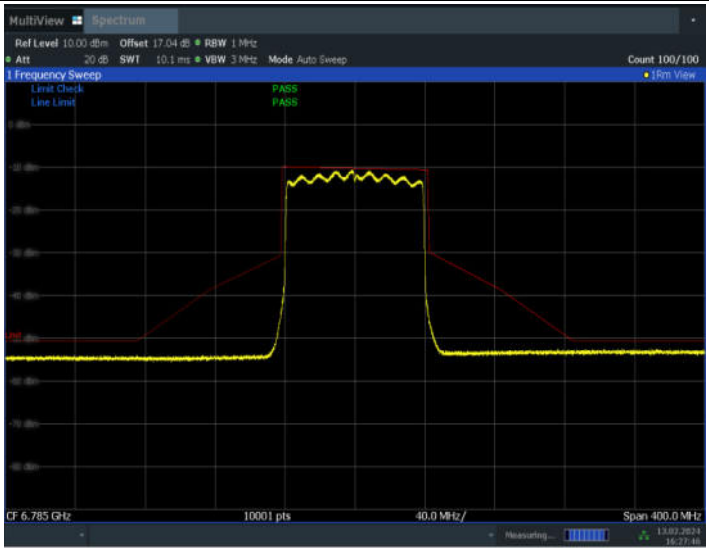
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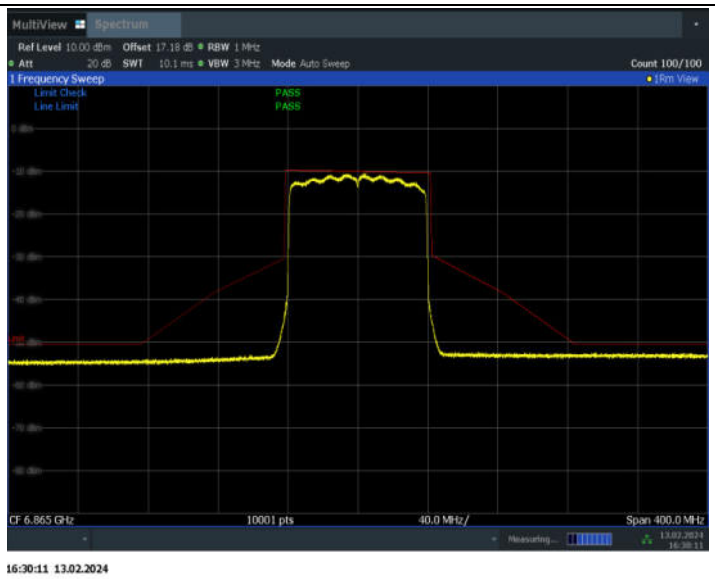

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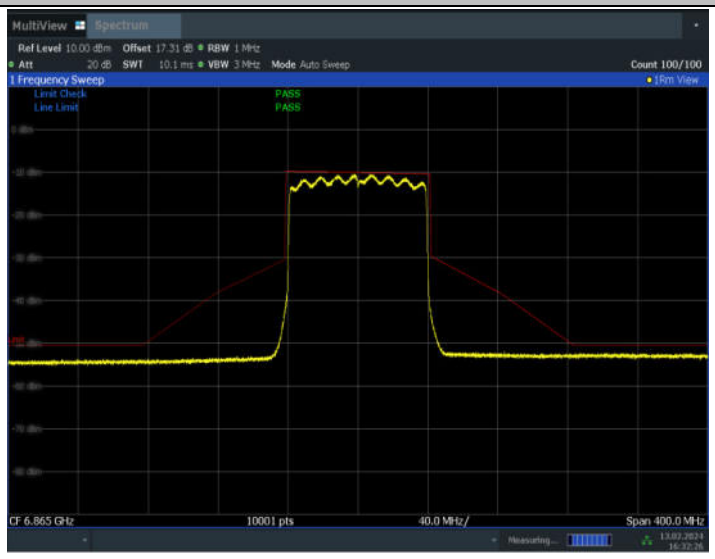

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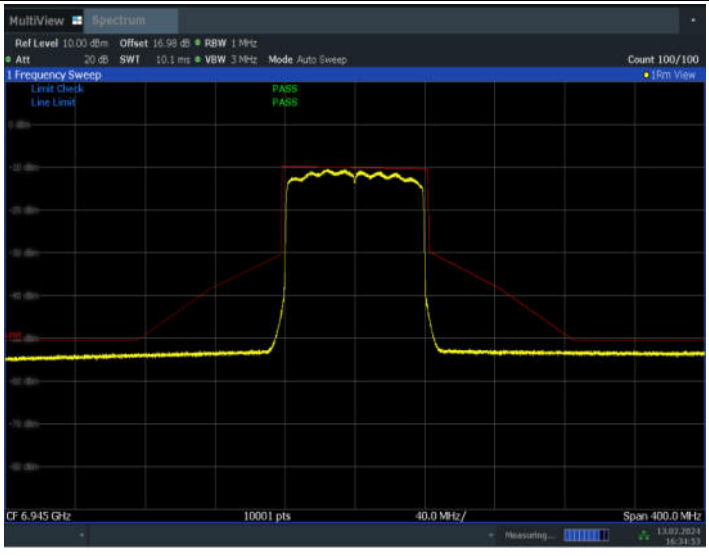

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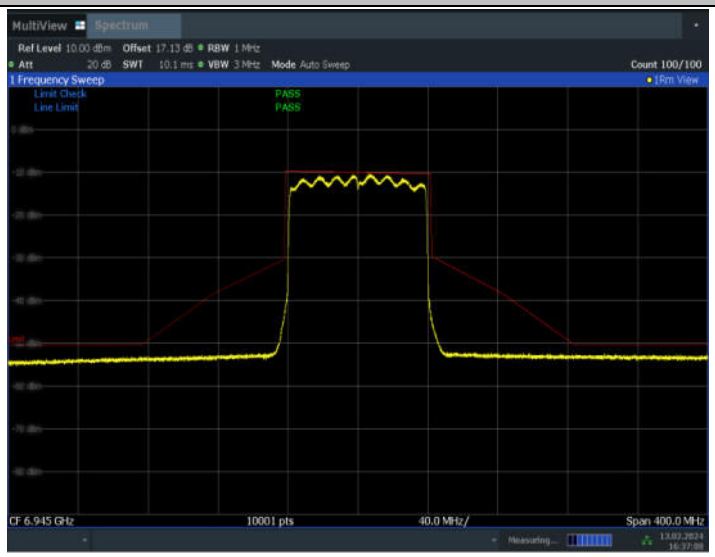
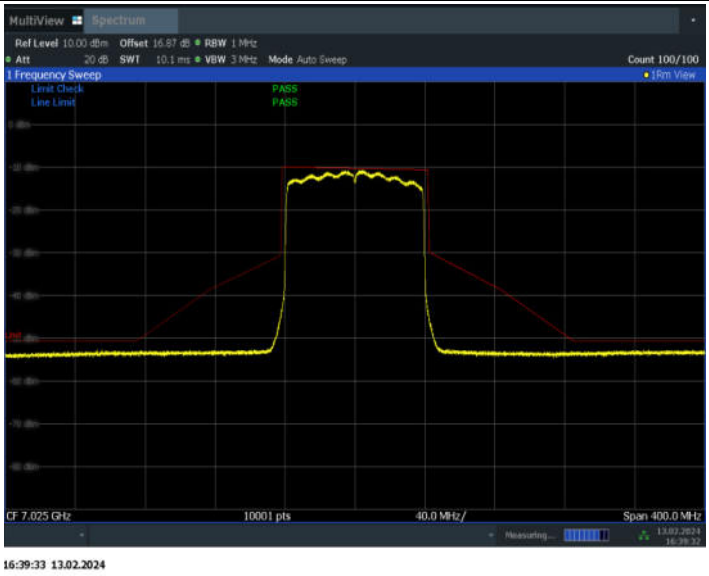

11AX80MIMO_Ant10_7025

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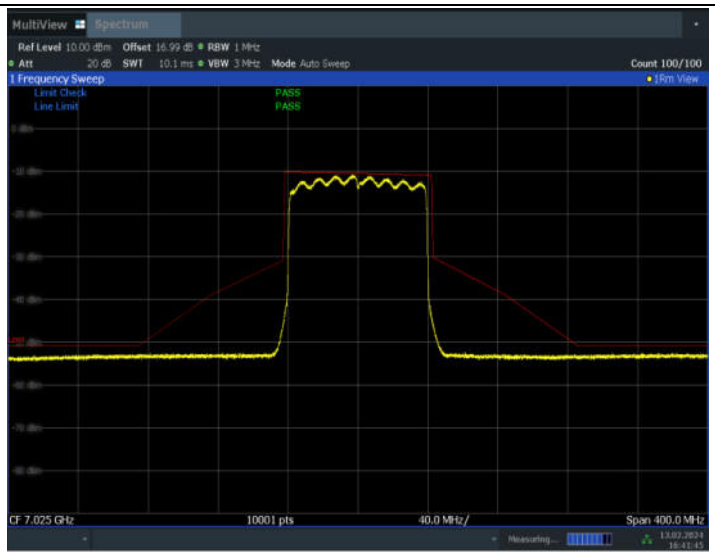

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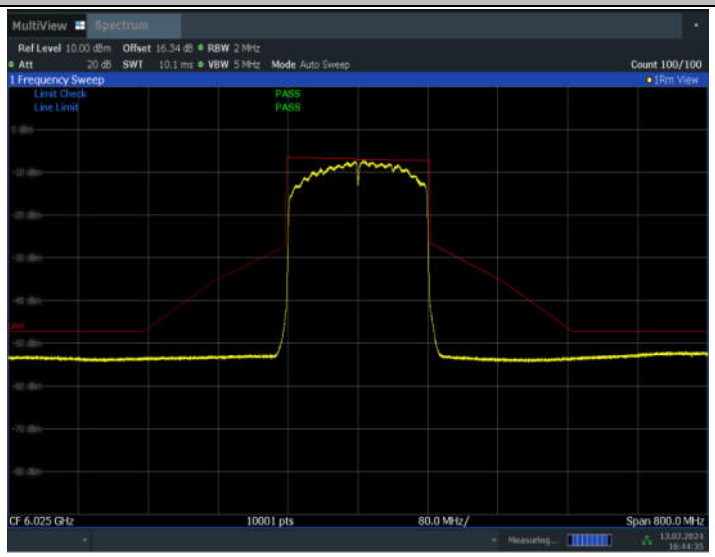
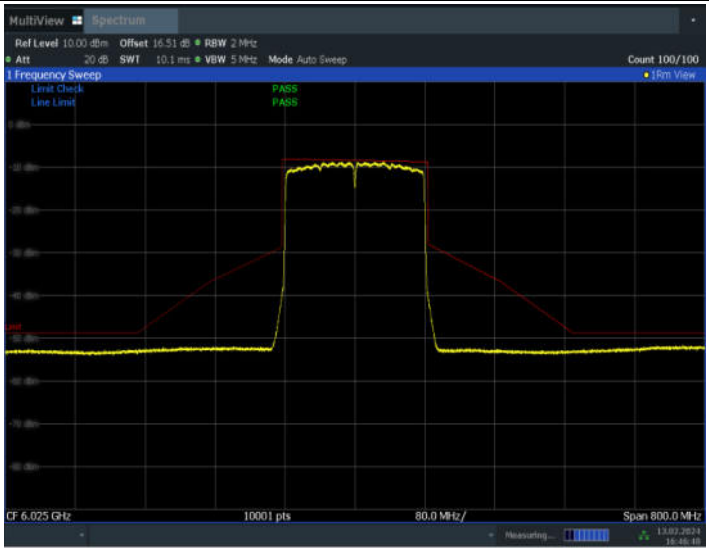


11AX160MIMO_Ant7_6025



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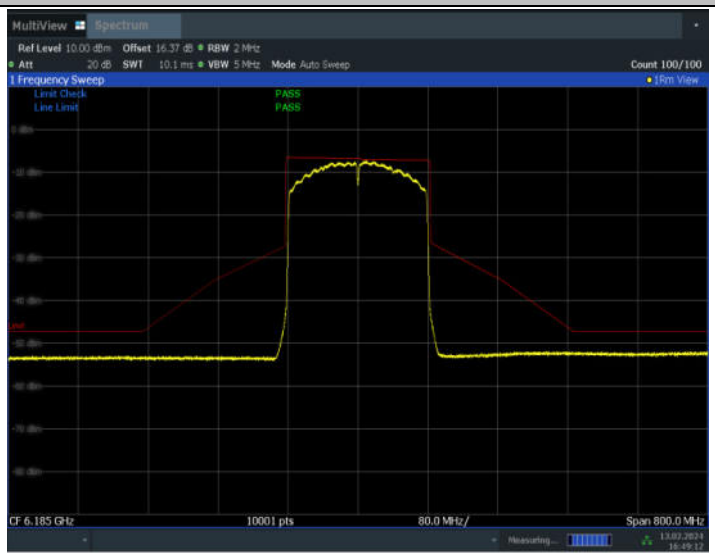
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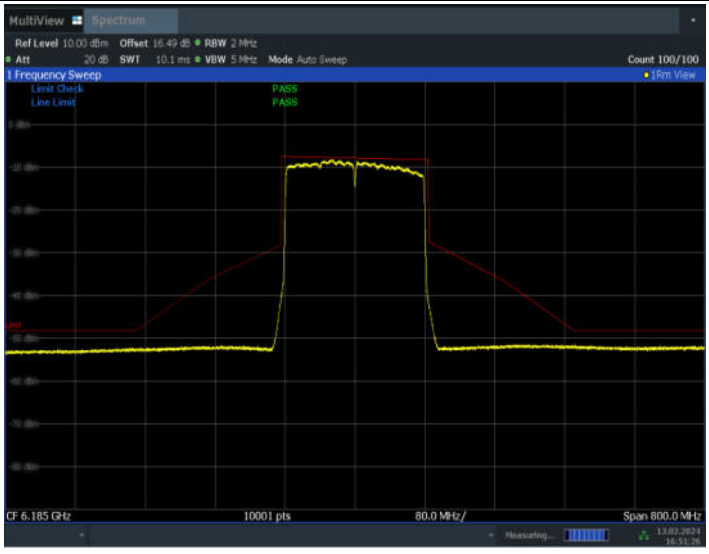
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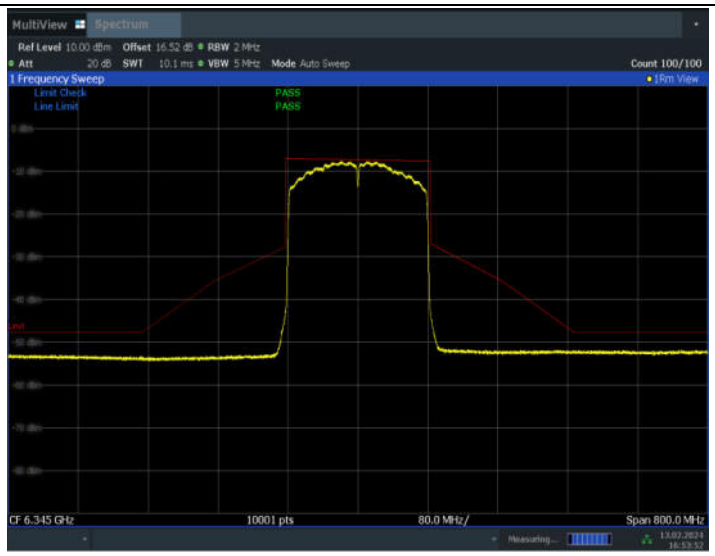
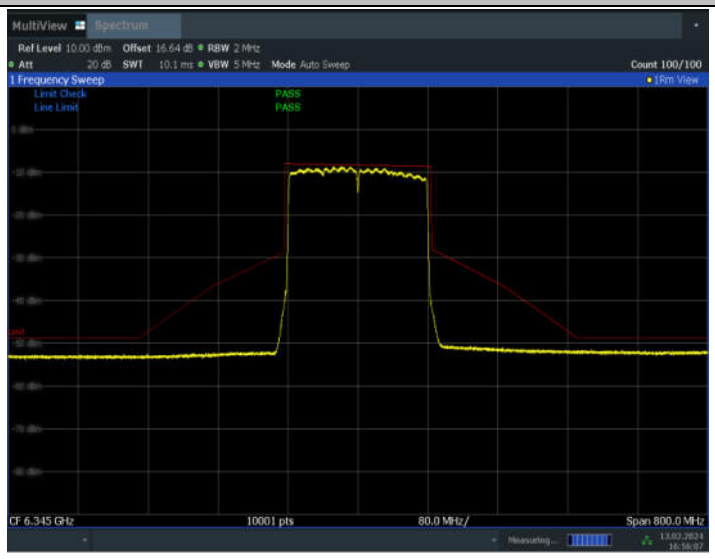


11AX160MIMO_Ant7_6345



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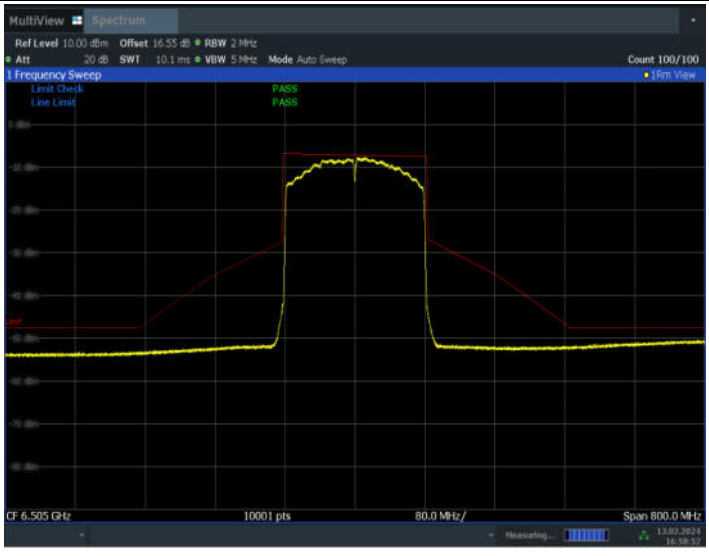

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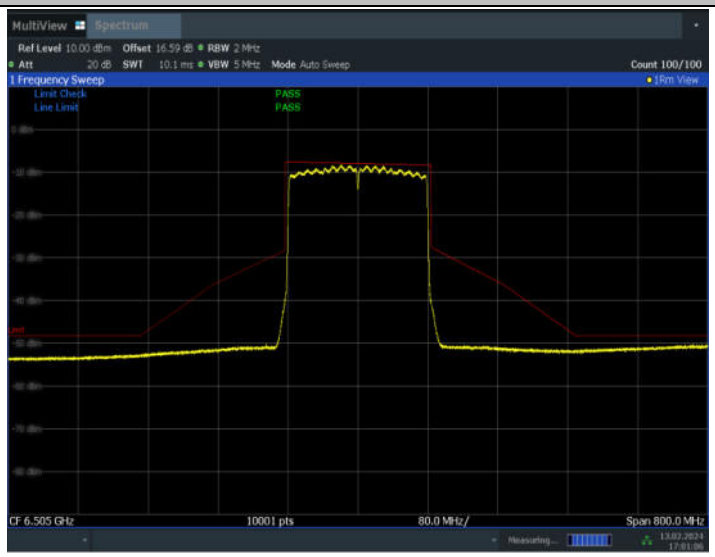
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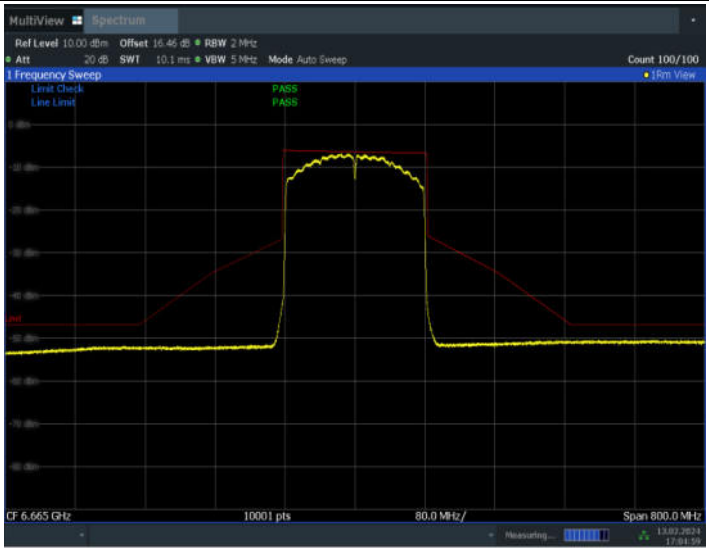
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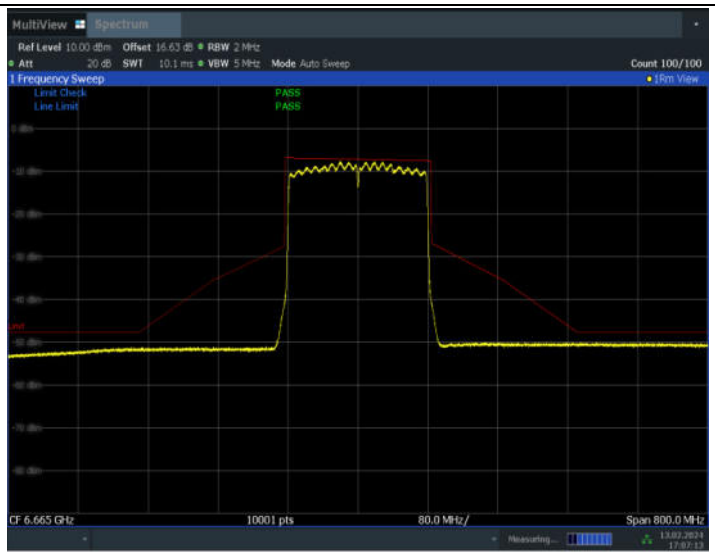

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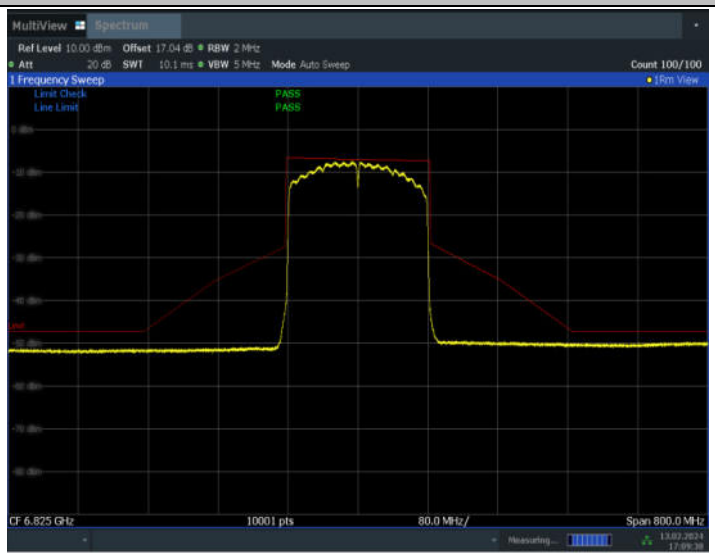

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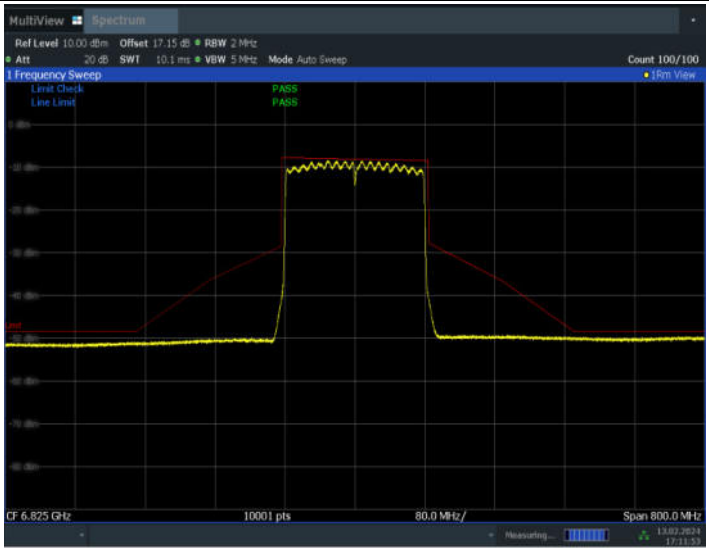

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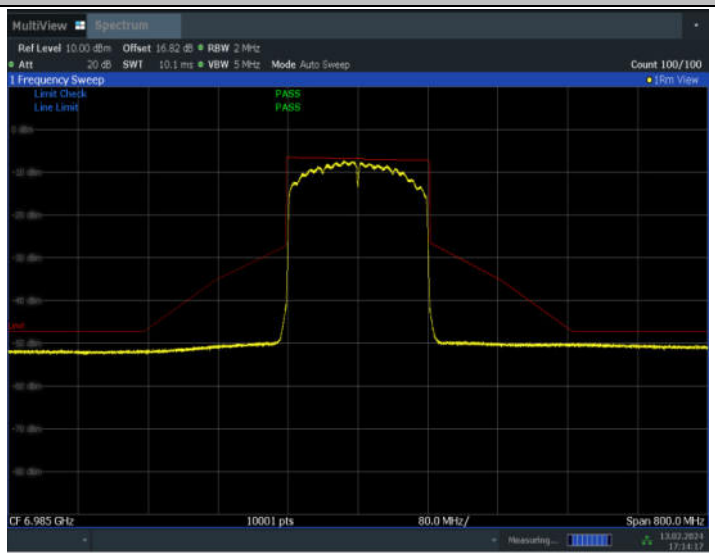
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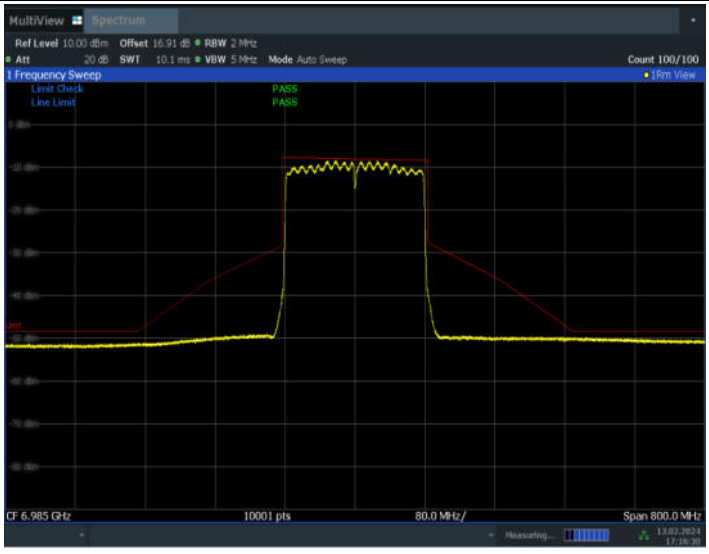

11ax20-RU

Test Mode	Antenna	Frequency[MHz]	RU Size	RU Index	Verdict
11AX20MIMO	Ant10	5955	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant7	5955	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant10	6175	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant7	6175	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant10	6415	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant7	6415	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant10	6435	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant7	6435	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant10	6475	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant7	6475	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant10	6515	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant7	6515	26Tone	RU0	PASS
			52Tone	RU37	PASS
			106Tone	RU53	PASS
	Ant10	6535	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant7	6535	26Tone	RU8	PASS

			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant10	6695	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant7	6695	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant10	6855	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant7	6855	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant10	6875	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant7	6875	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant10	6895	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant7	6895	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant10	6995	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant7	6995	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant10	7115	26Tone	RU8	PASS
			52Tone	RU40	PASS
			106Tone	RU54	PASS
	Ant7	7115	26Tone	RU8	PASS
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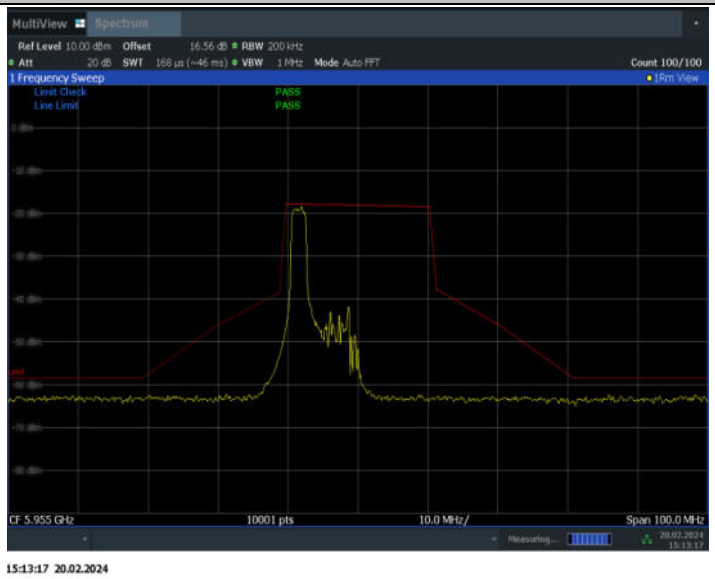
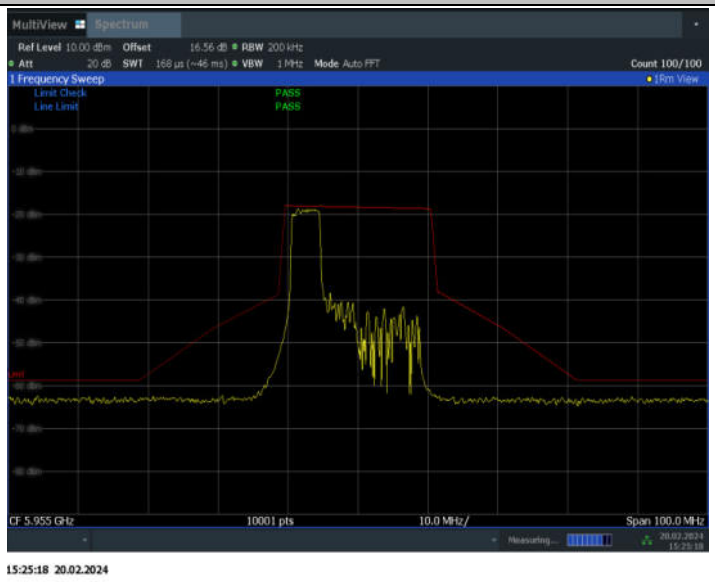
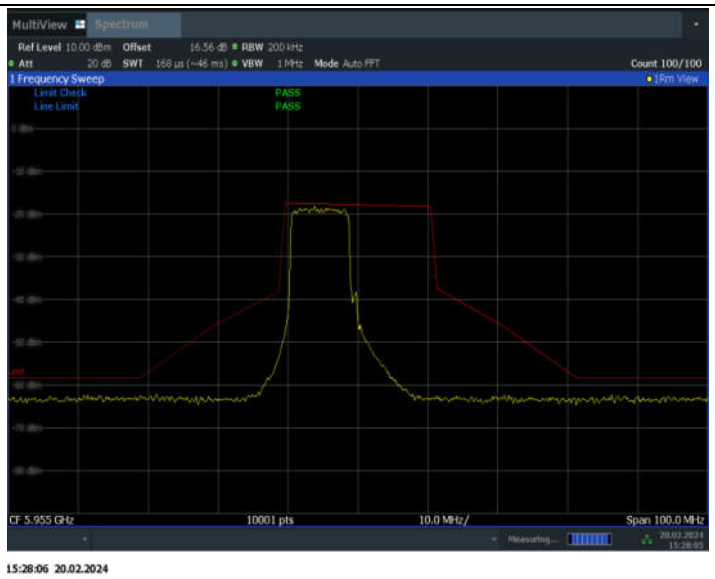
			106Tone	RU54	PASS

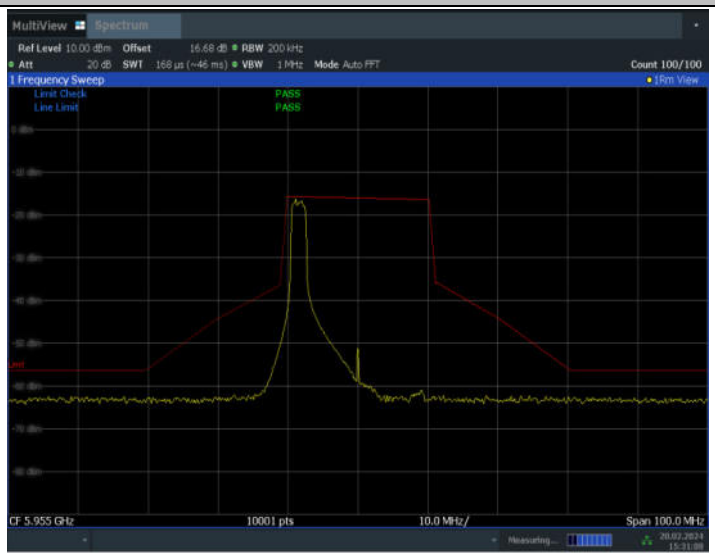
Test Graphs

11AX20MIMO_Ant10_5955_26Tone_RU0

11AX20MIMO_Ant10_5955_52Tone_RU37

11AX20MIMO_Ant10_5955_106Tone_RU53



15:28:06 20.02.2024

11AX20MIMO_Ant7_5955_26Tone_RU0



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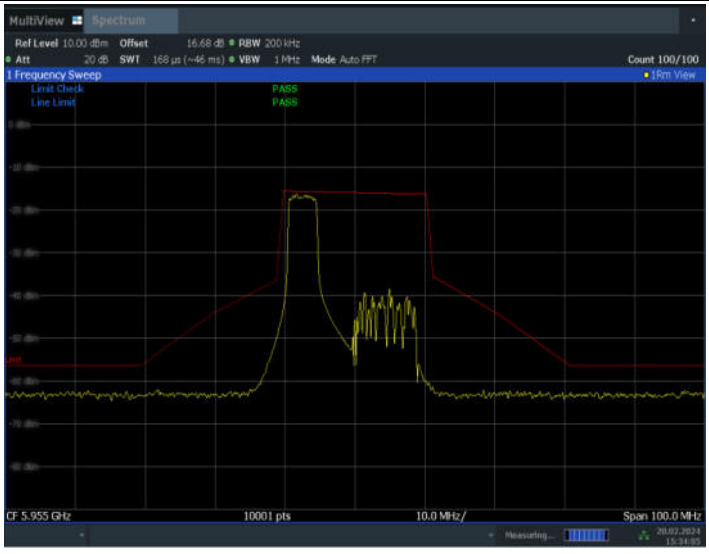

15:34:05 20.02.2024

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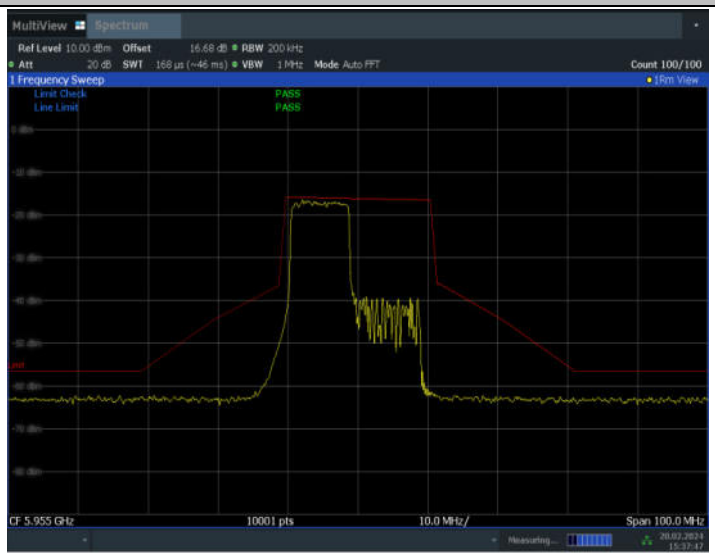
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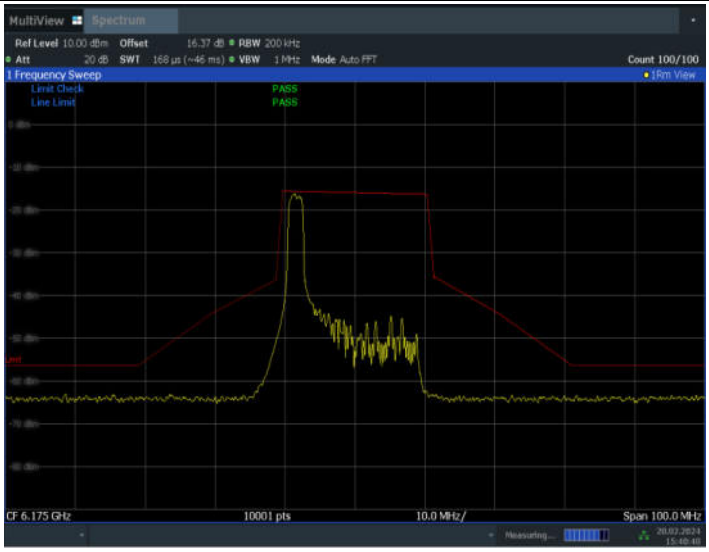
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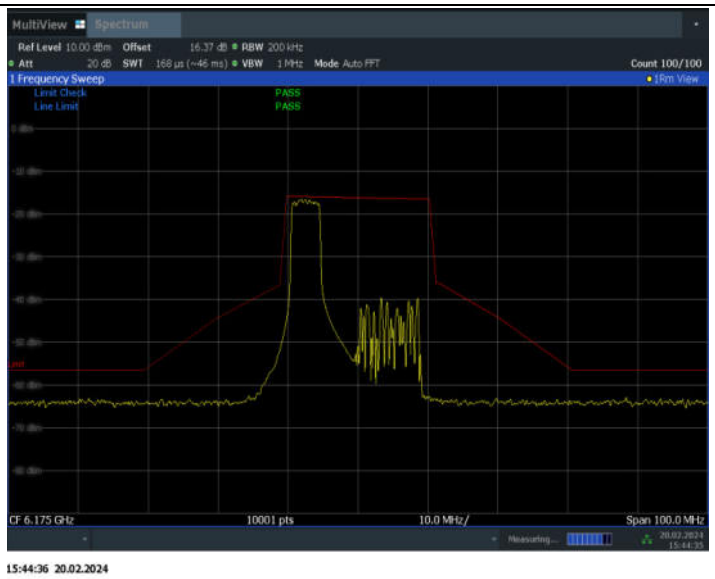

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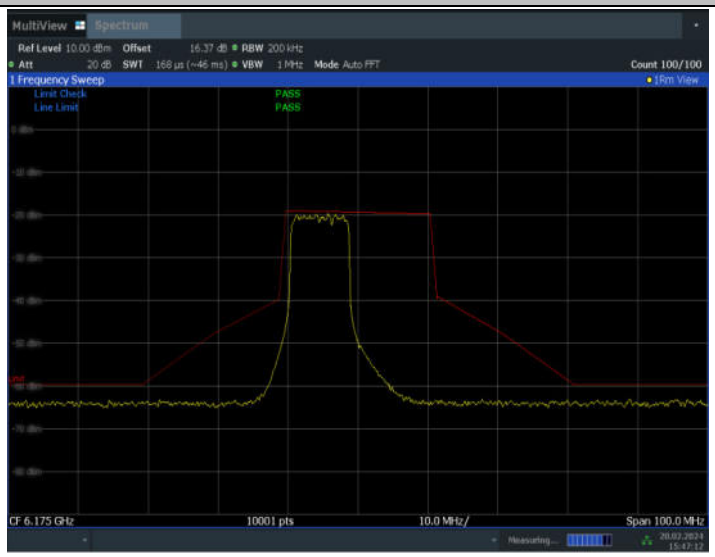

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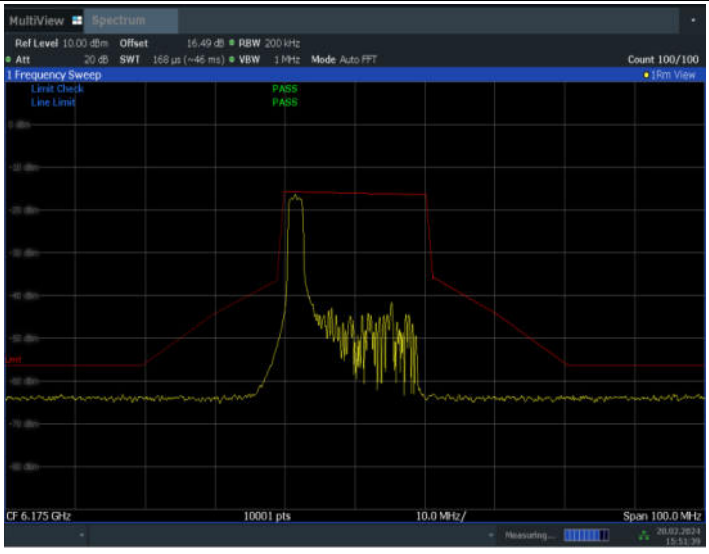
11AX20MIMO_Ant7_6175_26Tone_RU0



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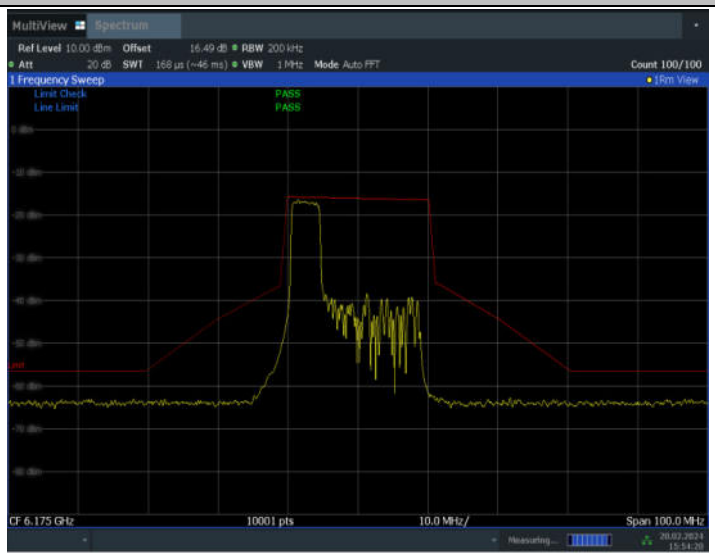
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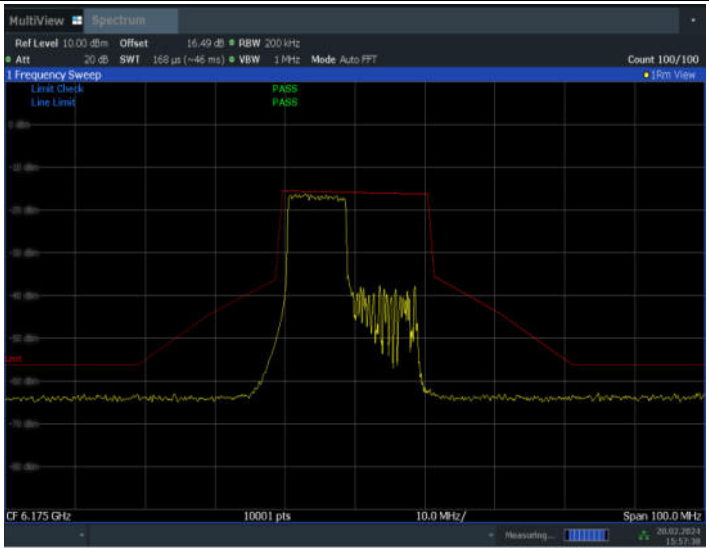
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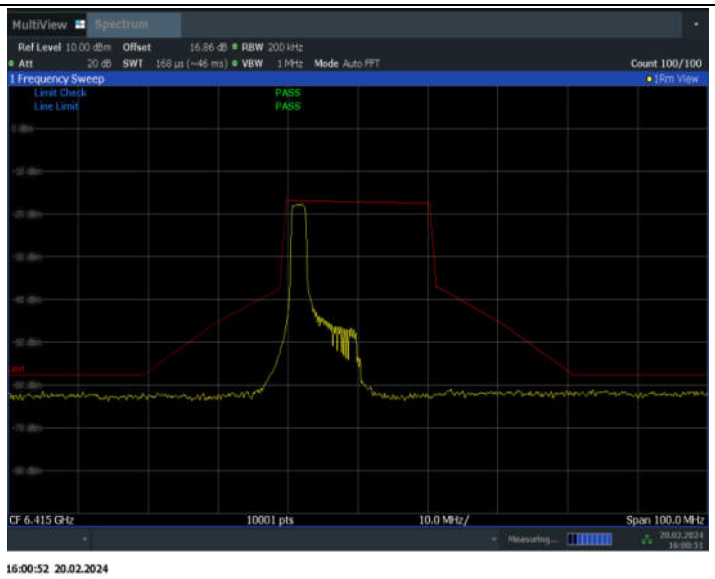

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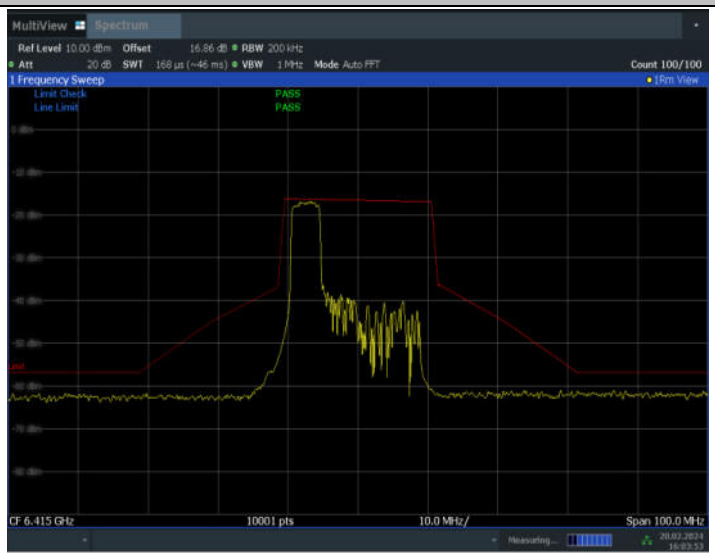

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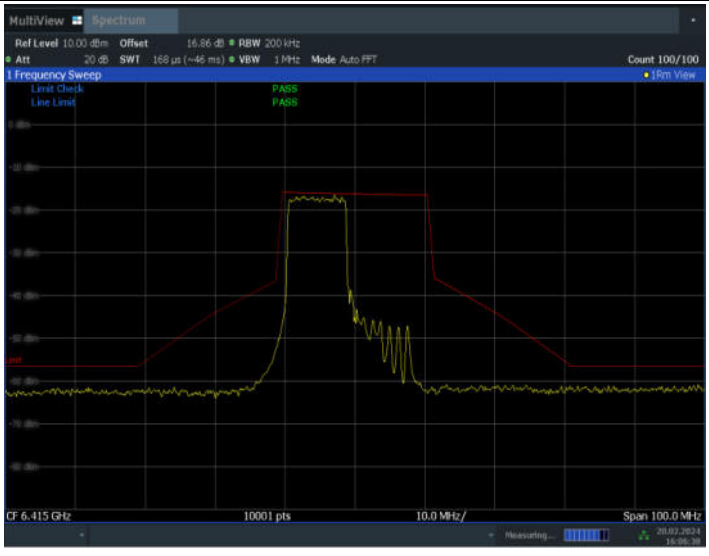

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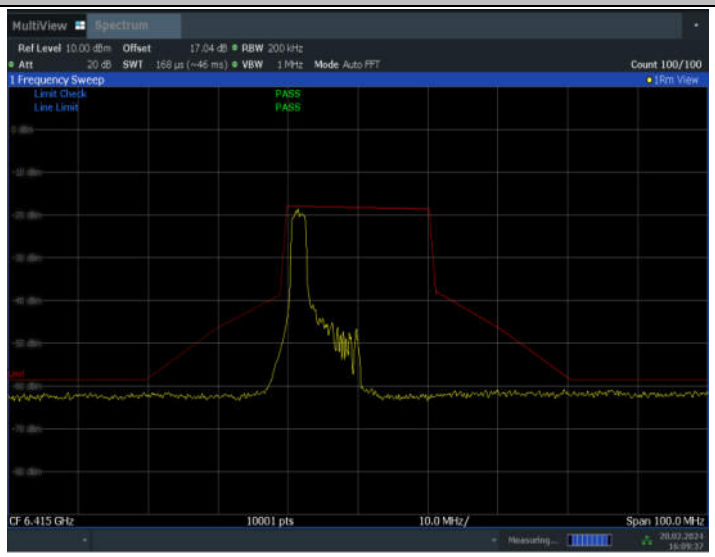
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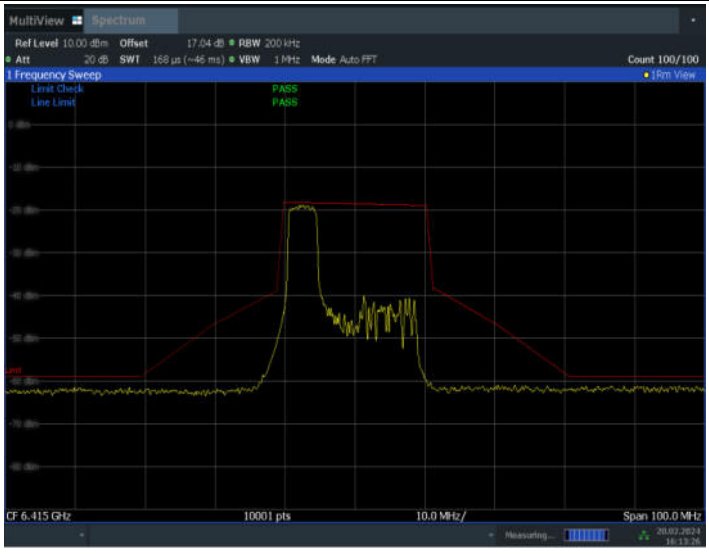
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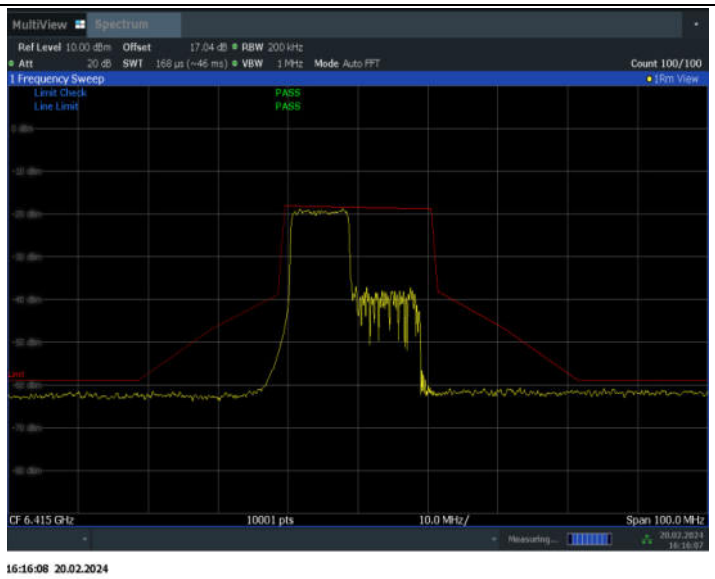

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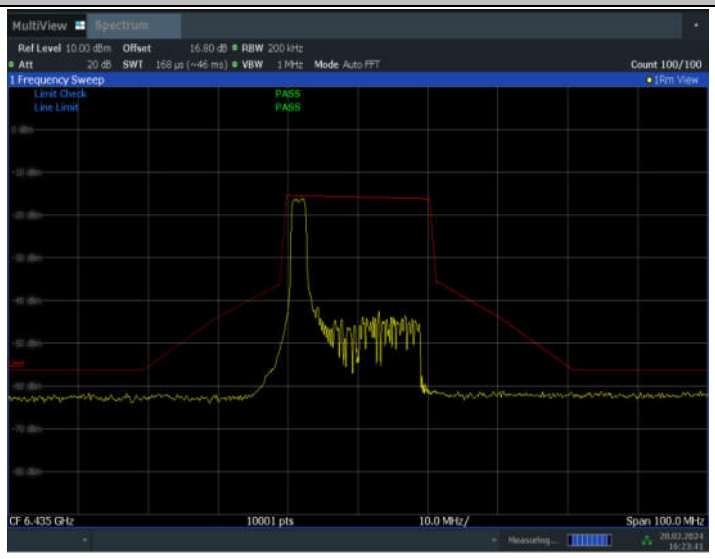

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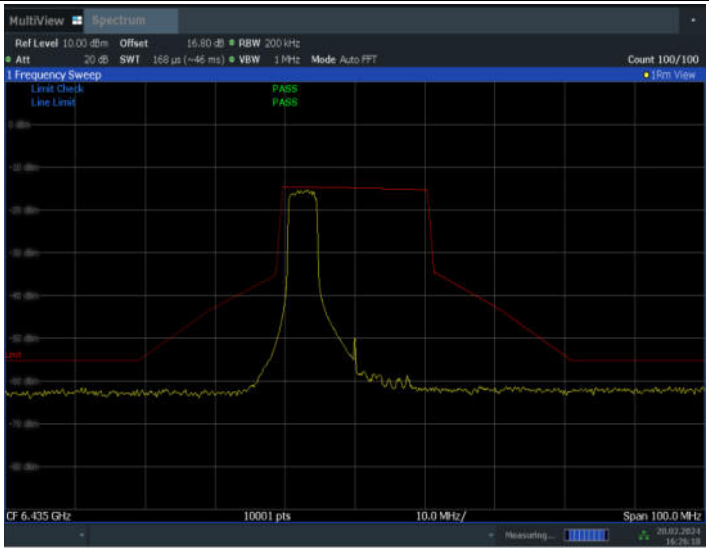

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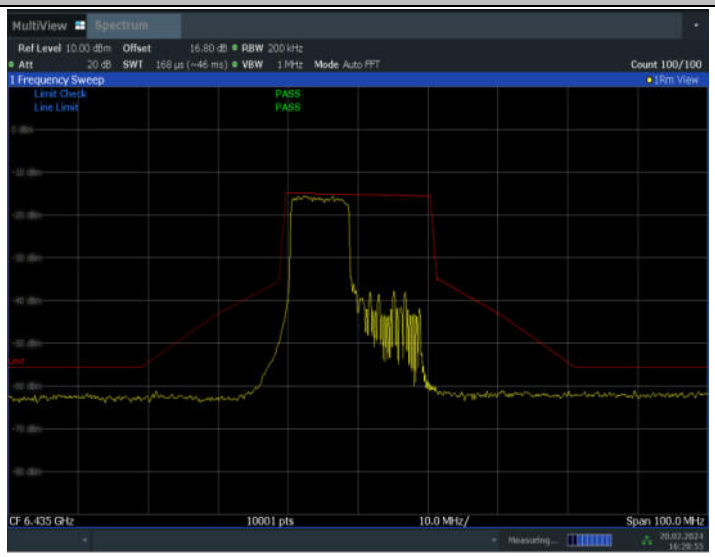
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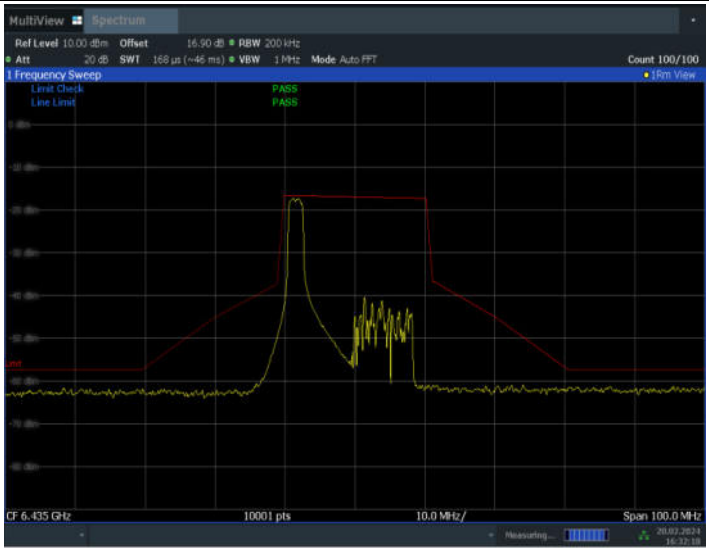
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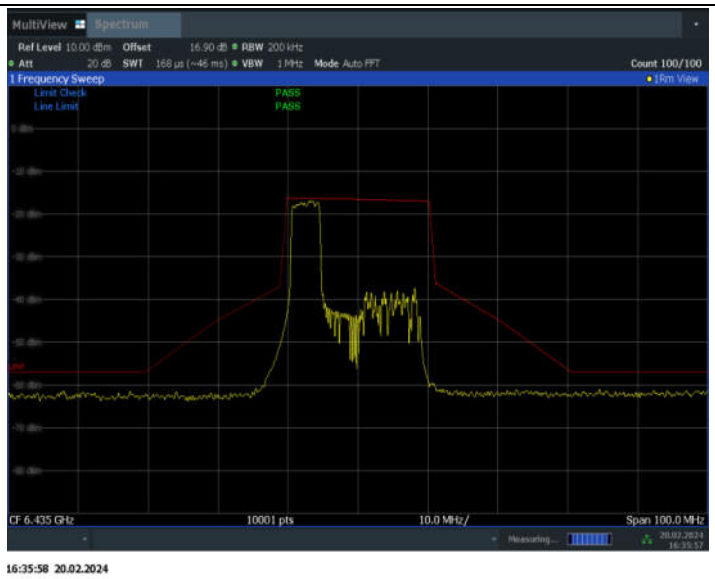

16:35:58 20.02.2024

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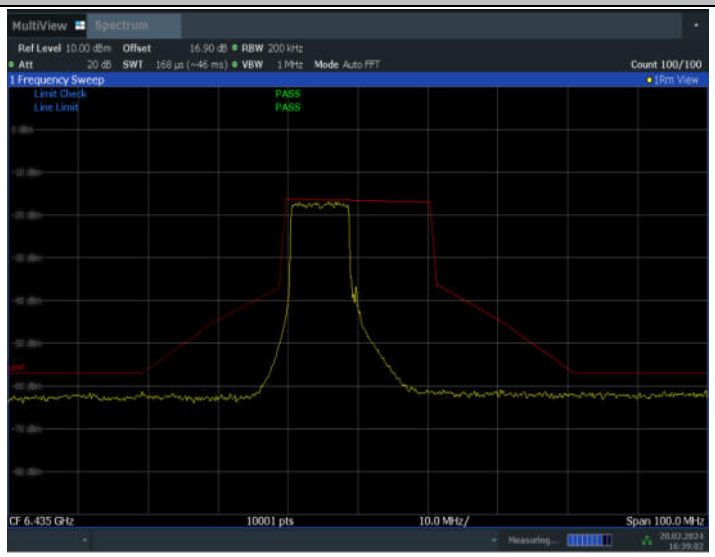

16:39:02 20.02.2024

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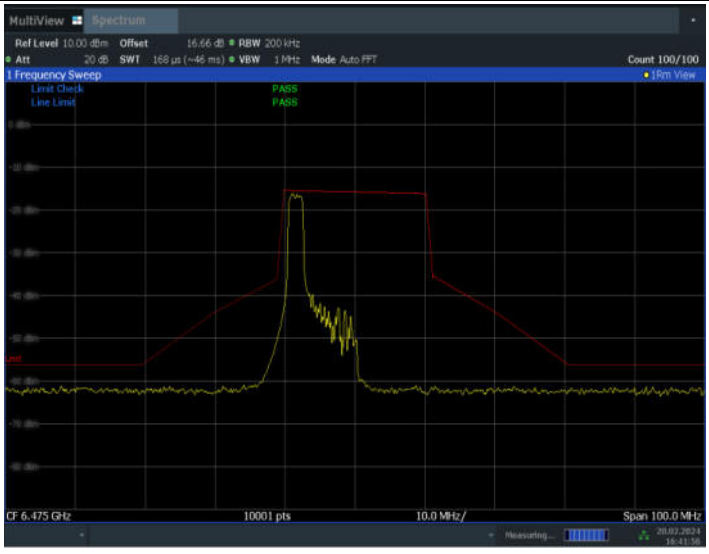

16:41:57 20.02.2024

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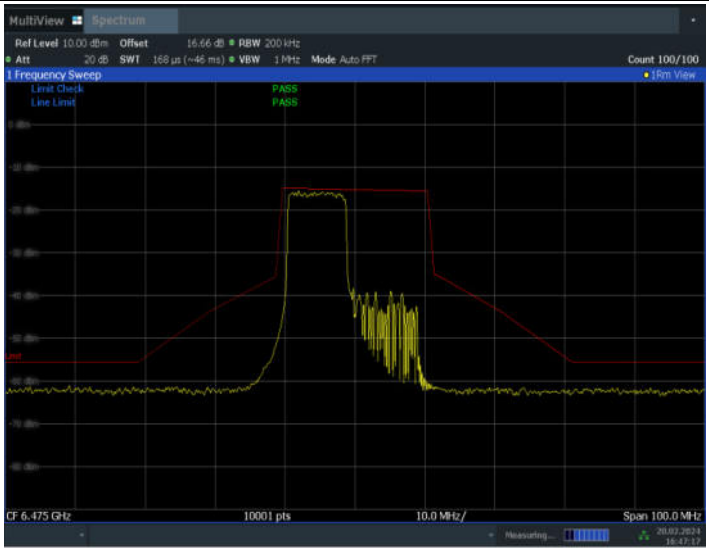 16:47:17 20.02.2024
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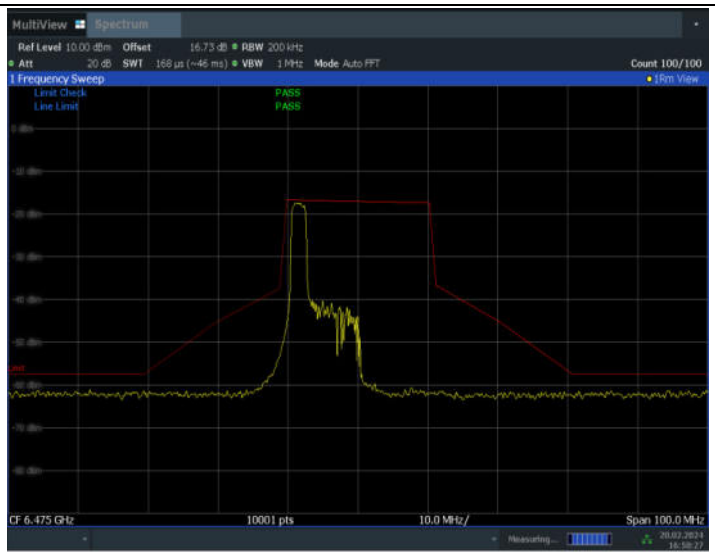

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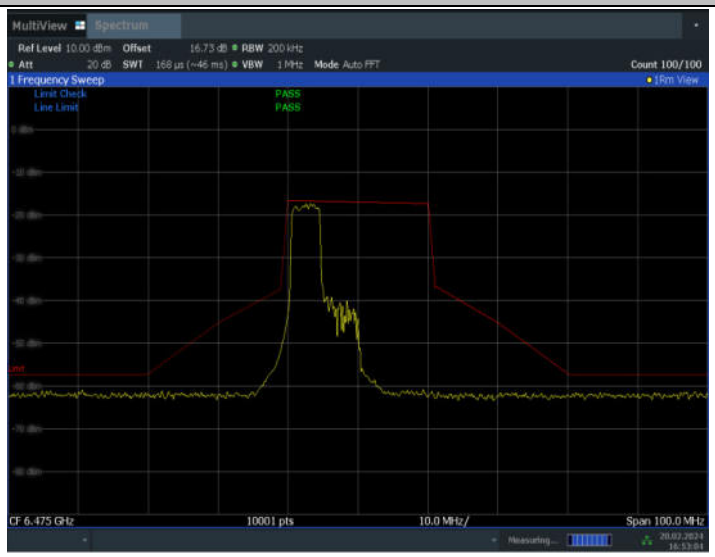

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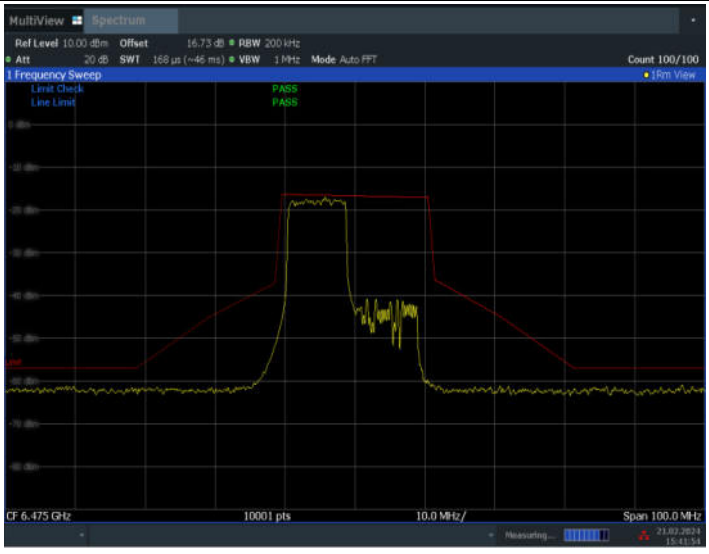

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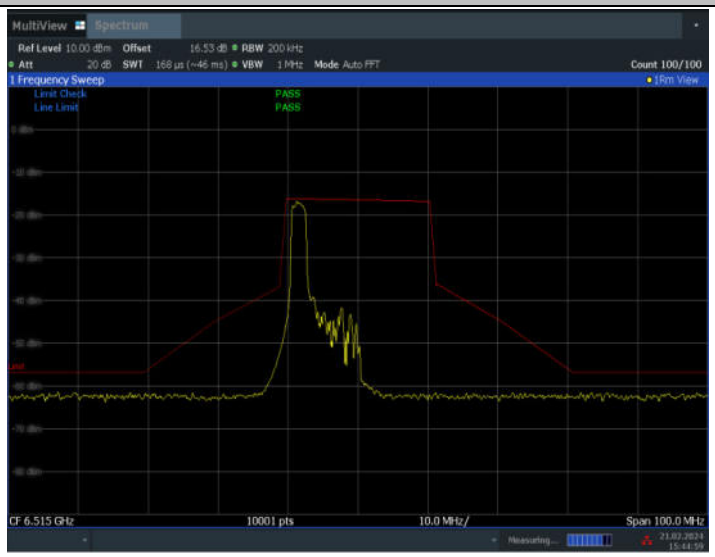 15:45:00 21.02.2024
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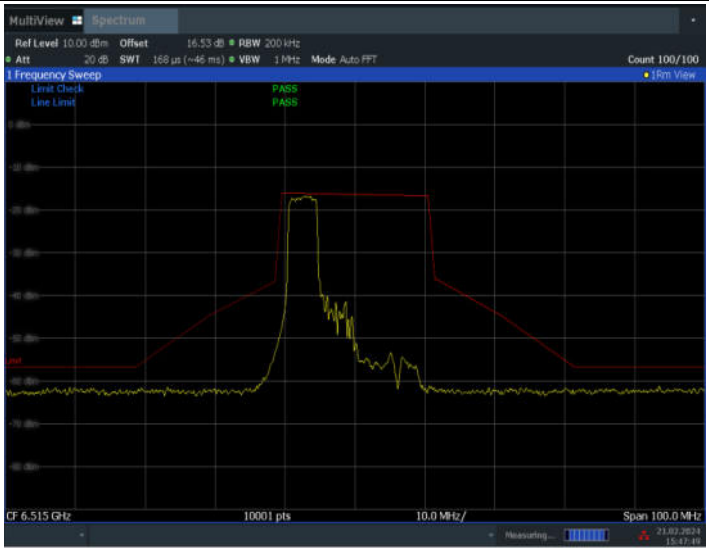 15:47:49 21.02.2024
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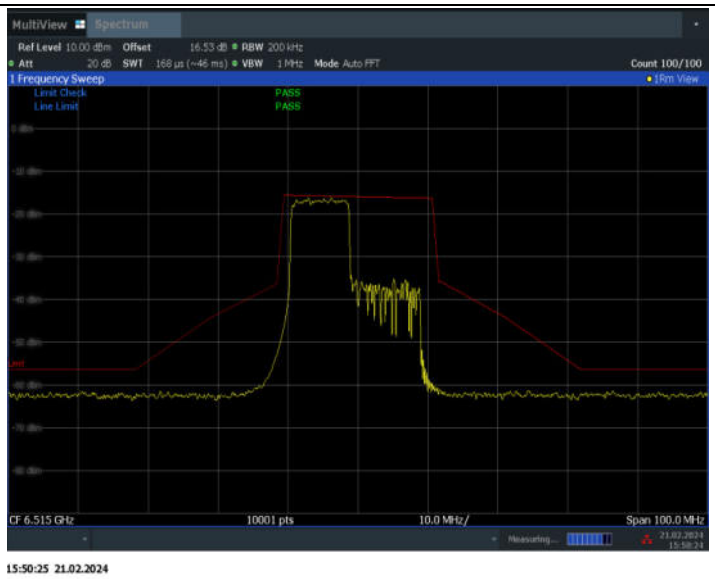

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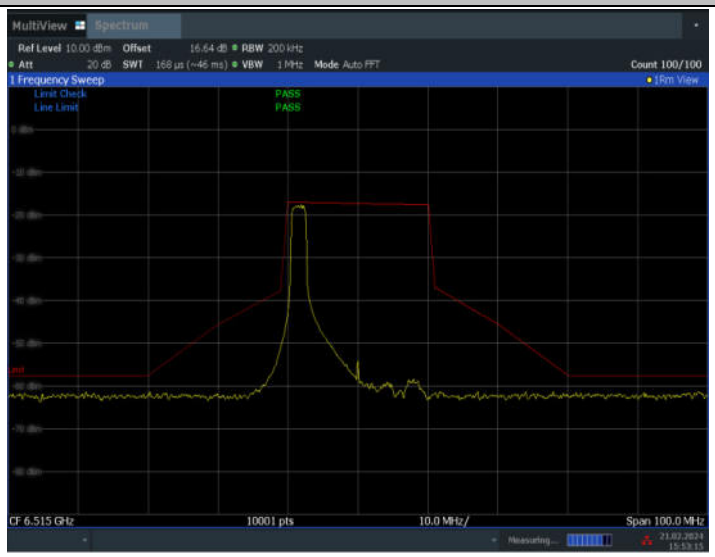

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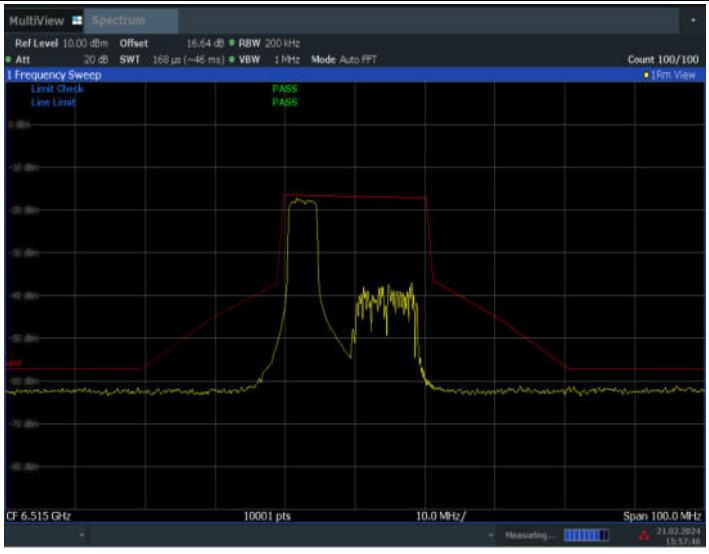

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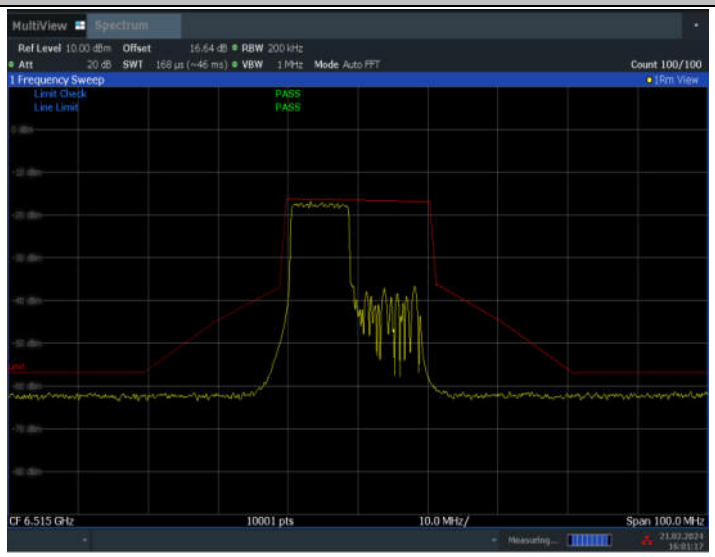
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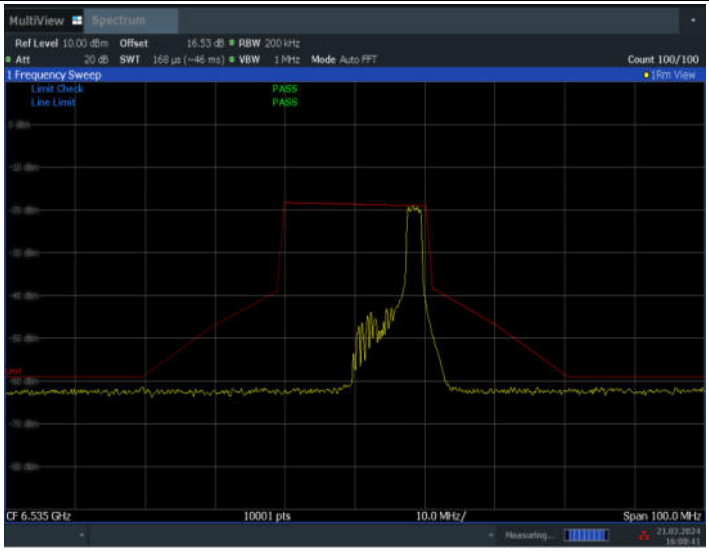
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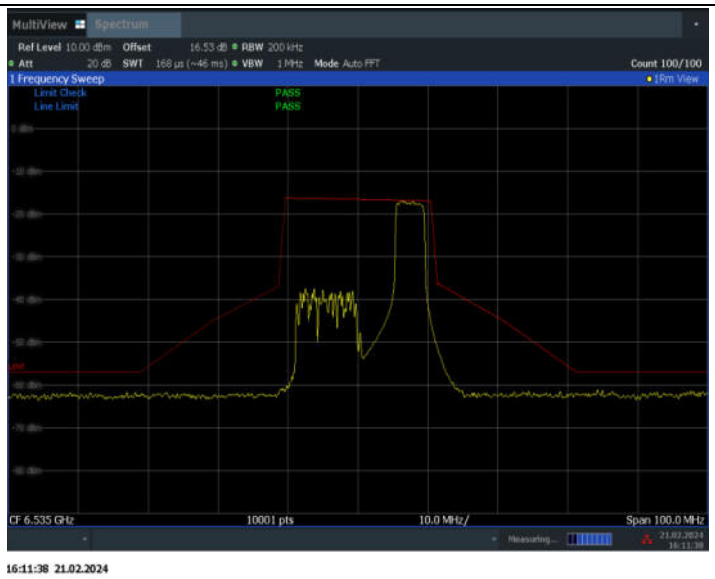

16:11:38 21.02.2024

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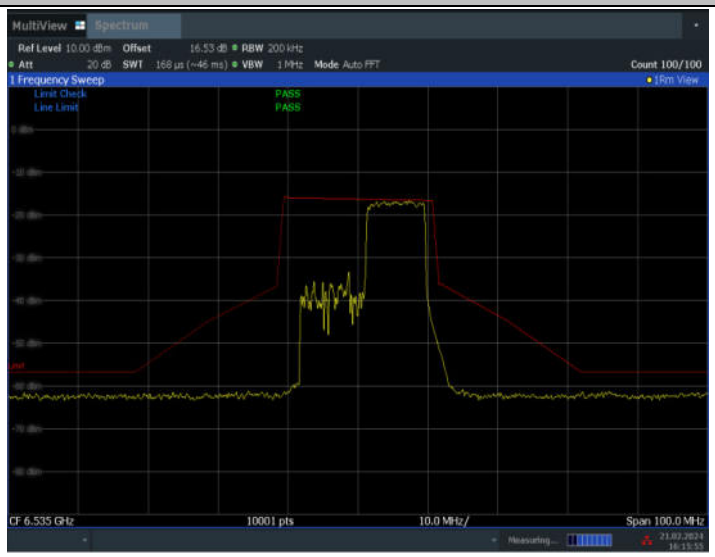

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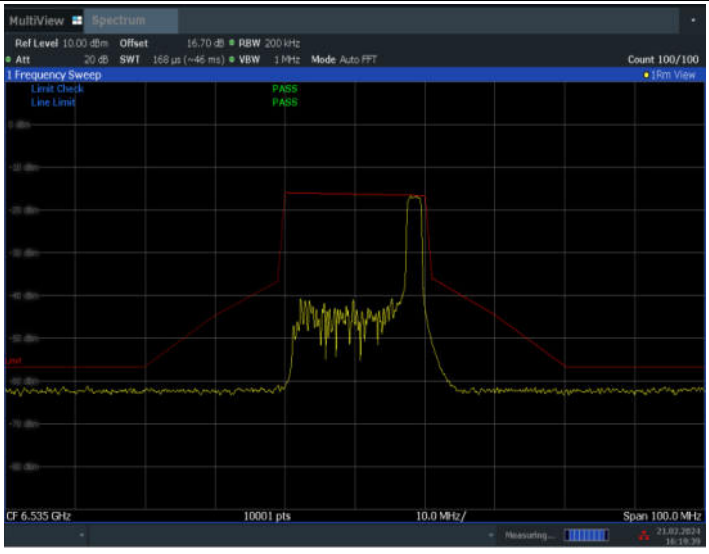

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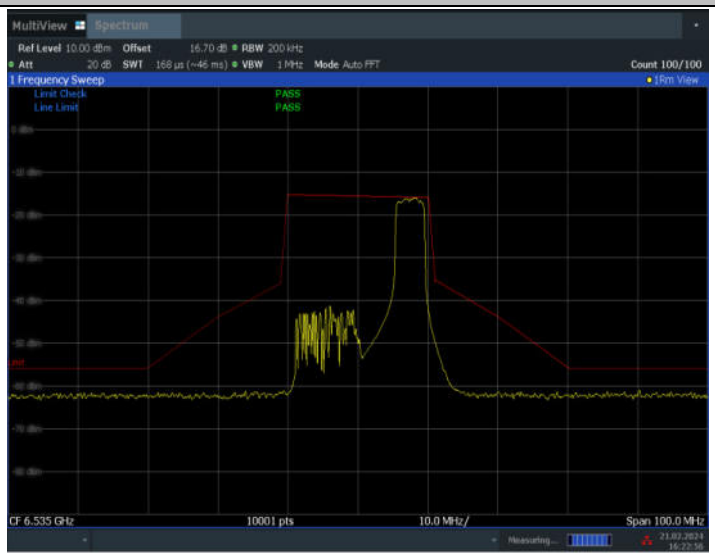 16:22:56 21.02.2024
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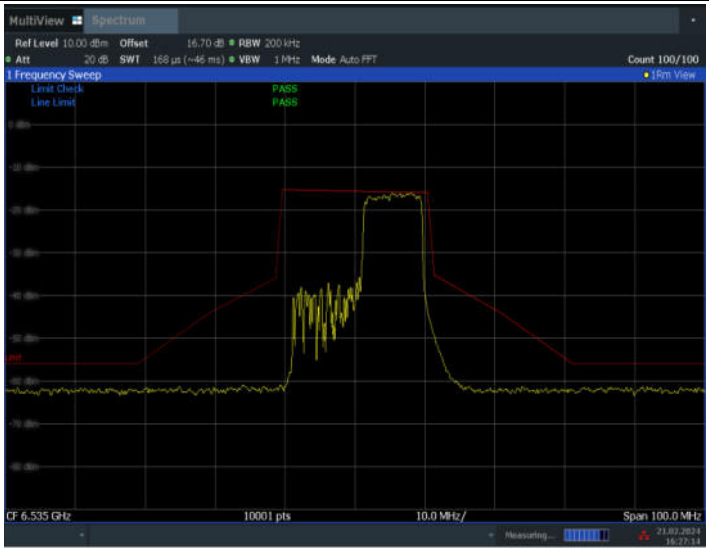 16:27:15 21.02.2024
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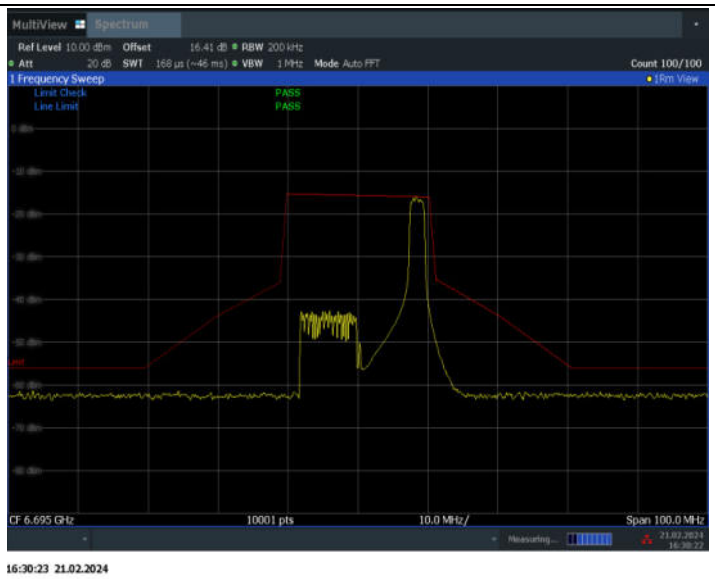

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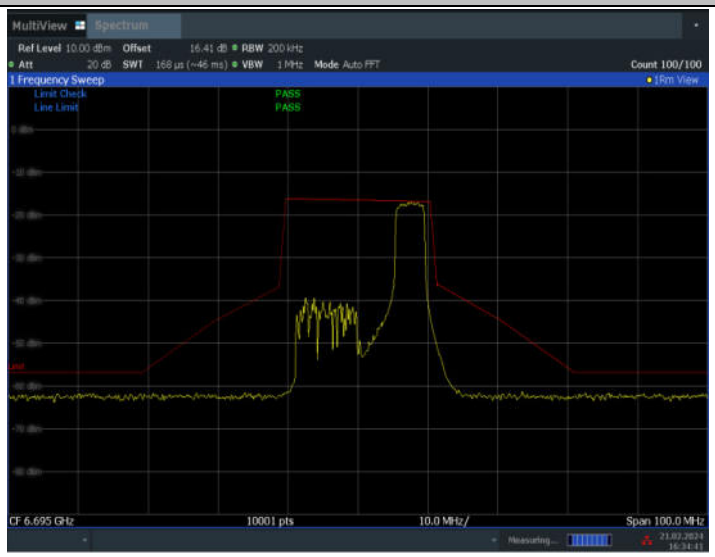

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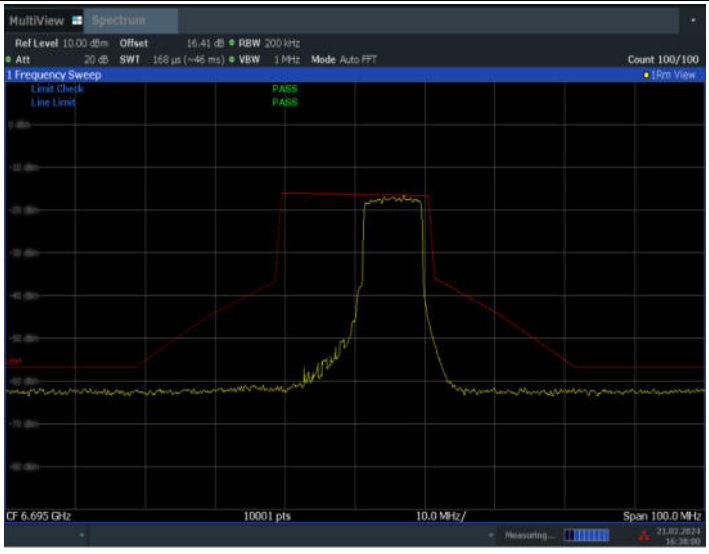

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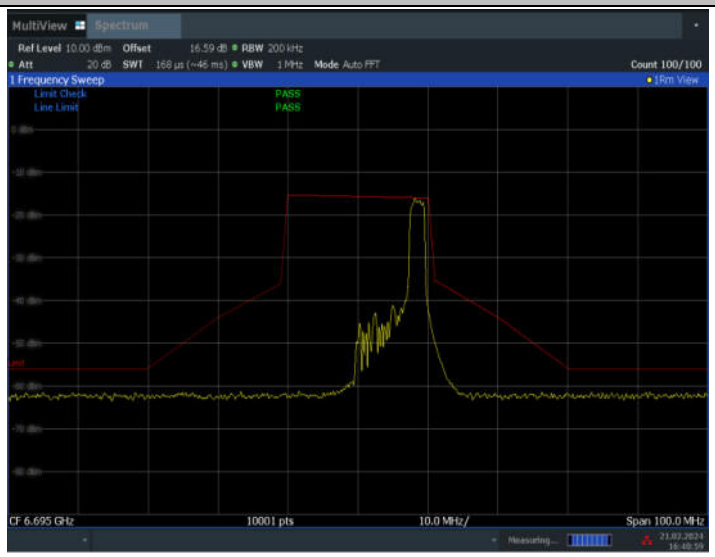 16:41:00 21.02.2024
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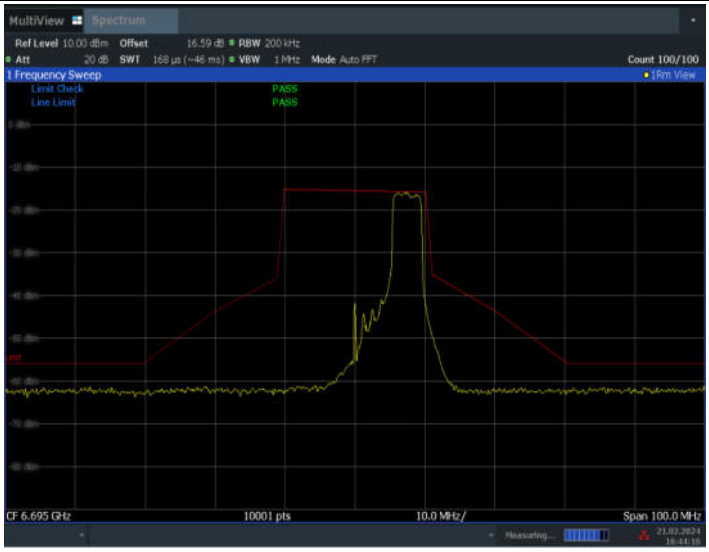 16:44:16 21.02.2024
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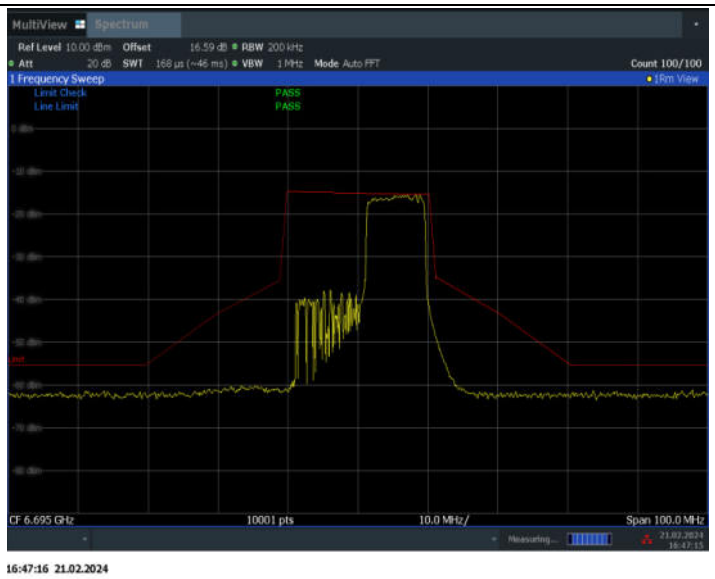

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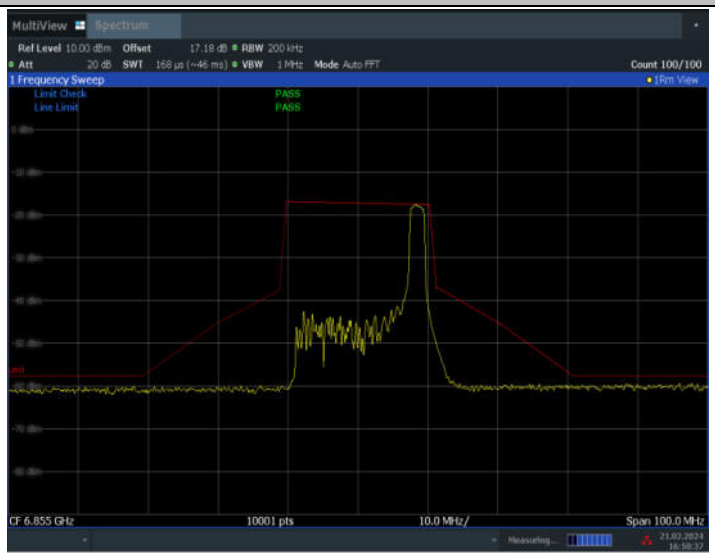

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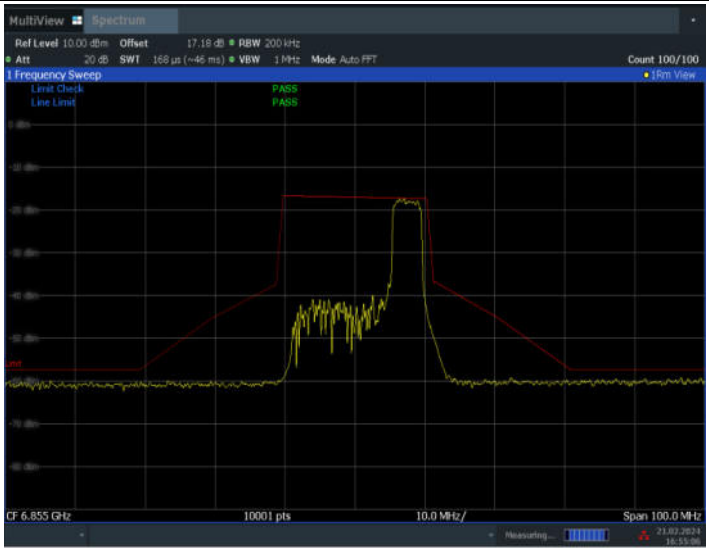

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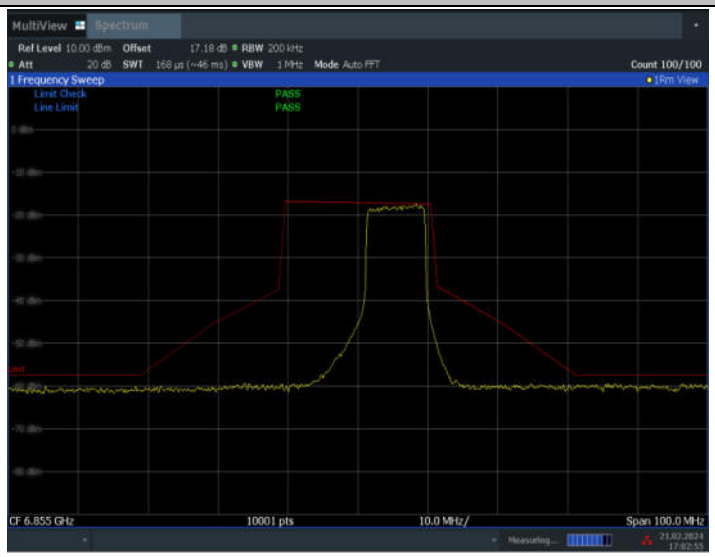 17:02:56 21.02.2024
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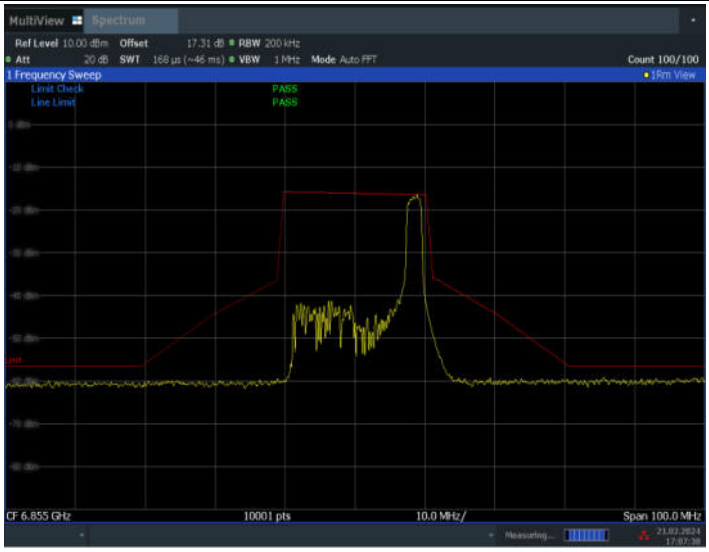 17:07:39 21.02.2024
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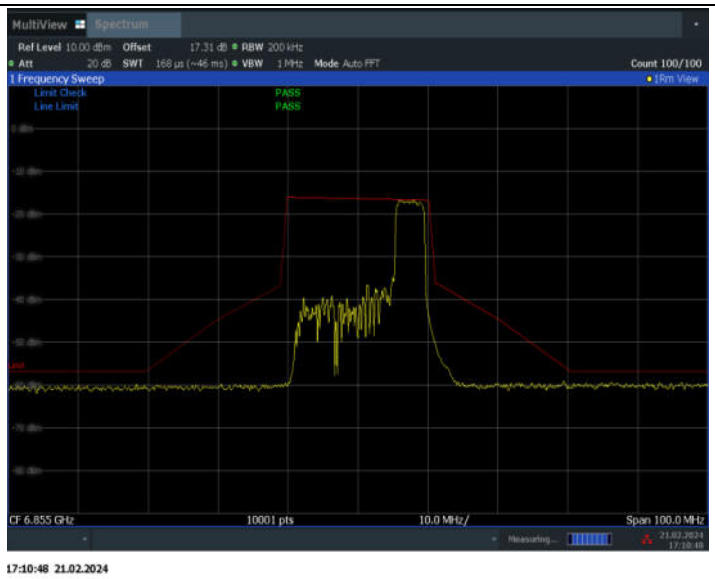

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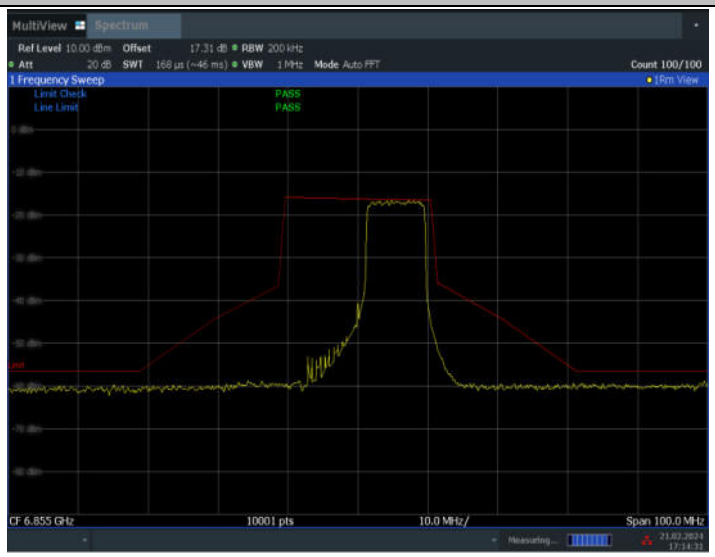

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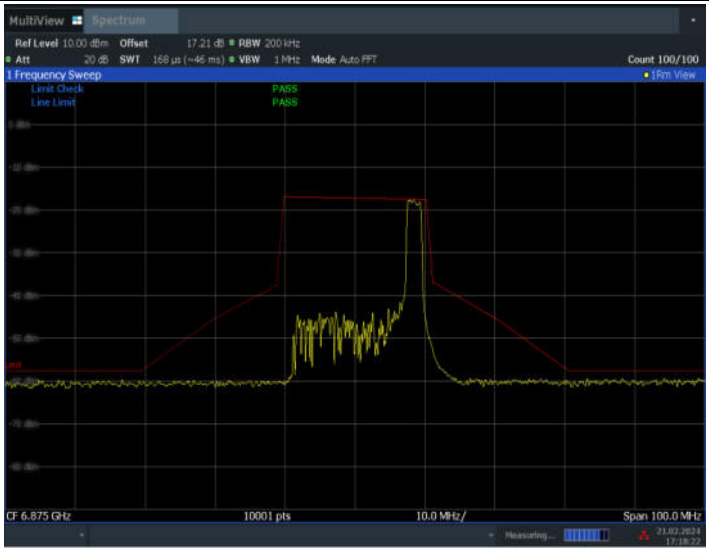

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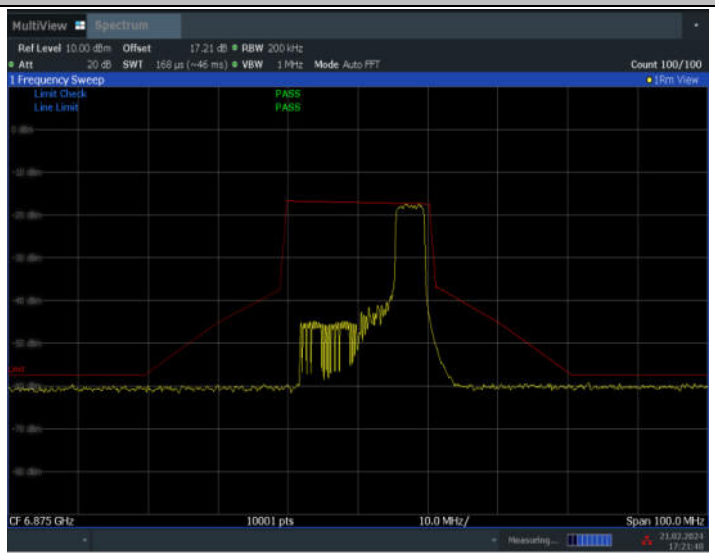
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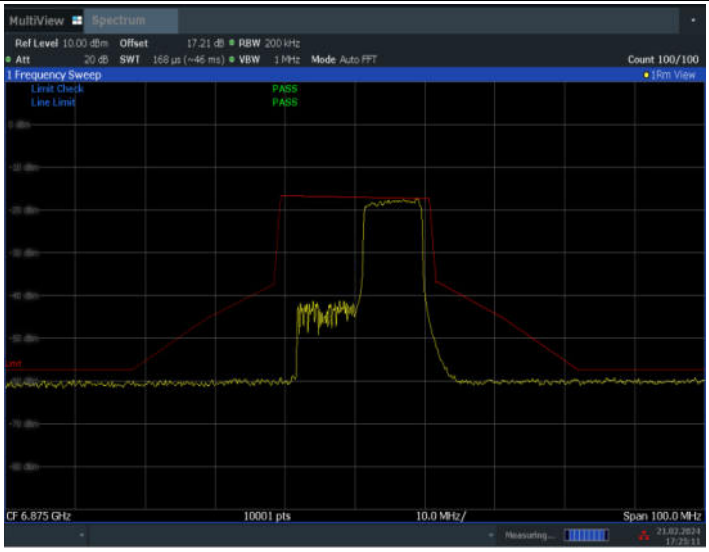
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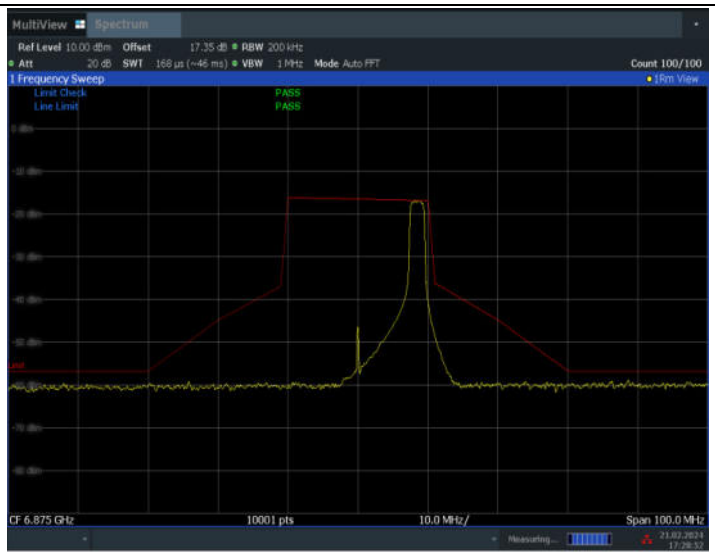

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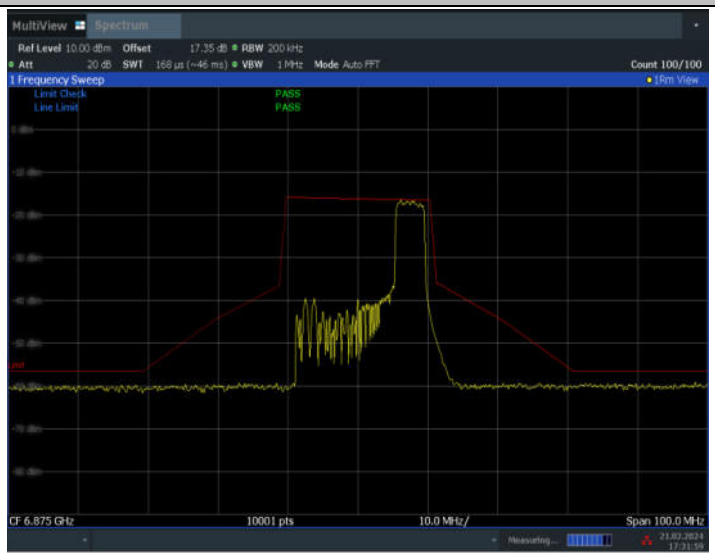

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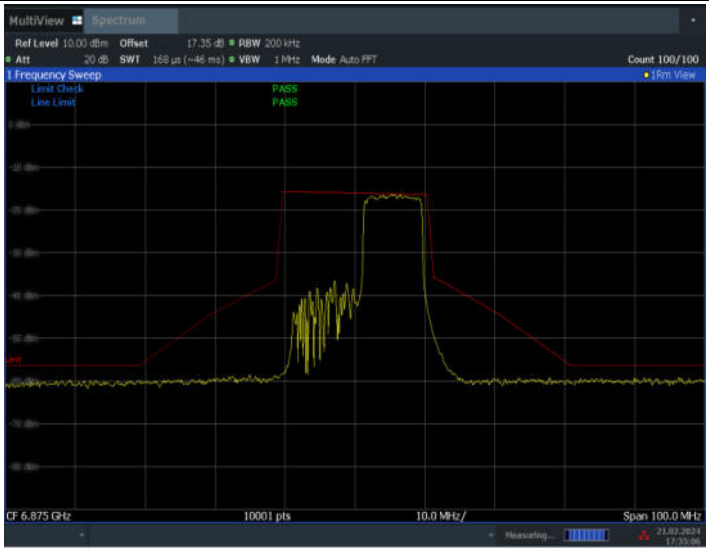

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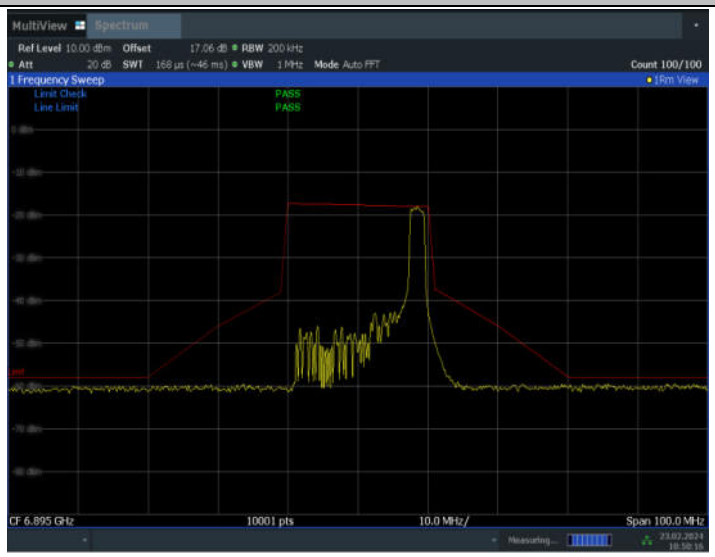
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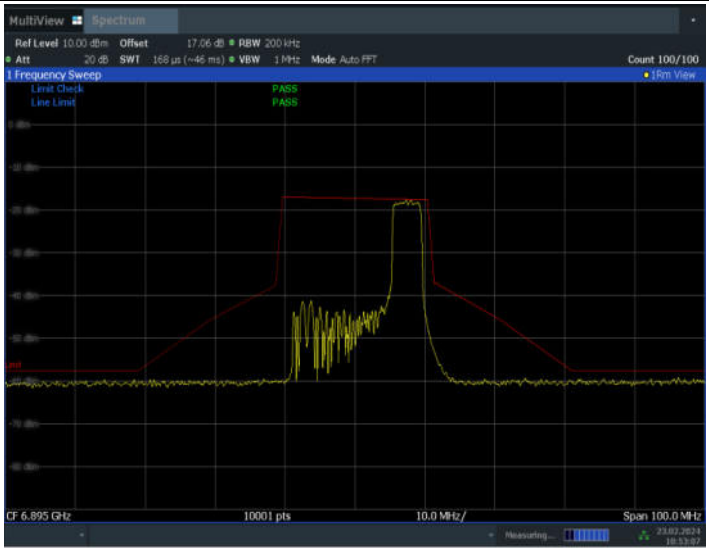
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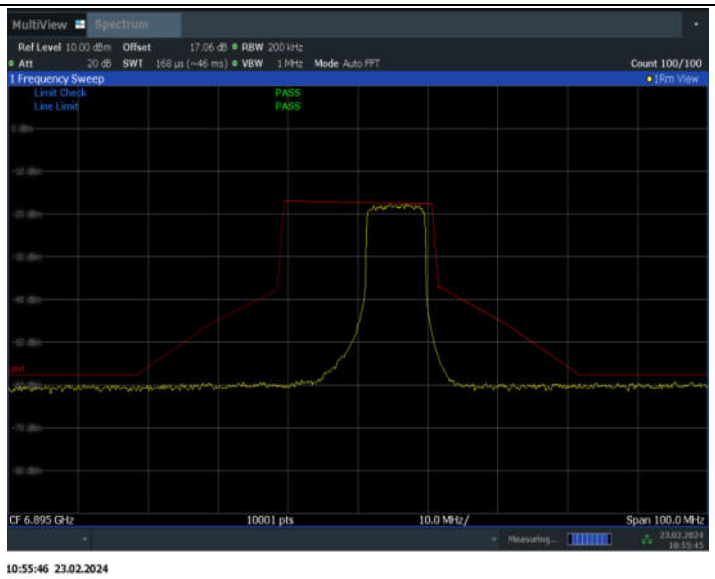

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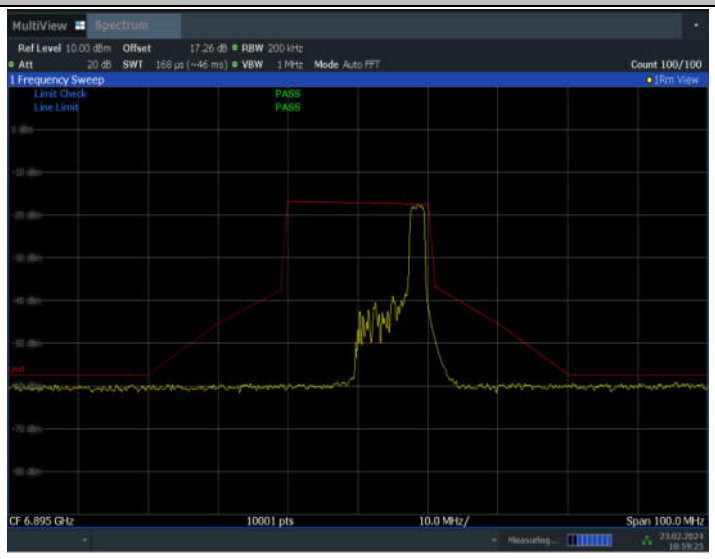

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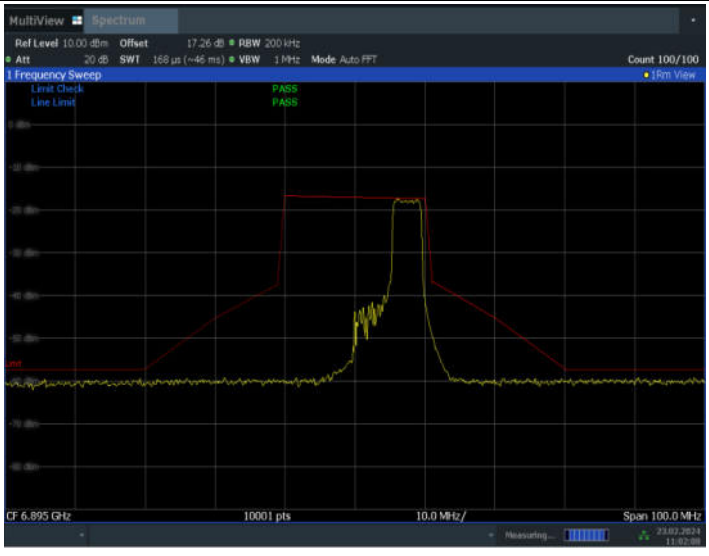

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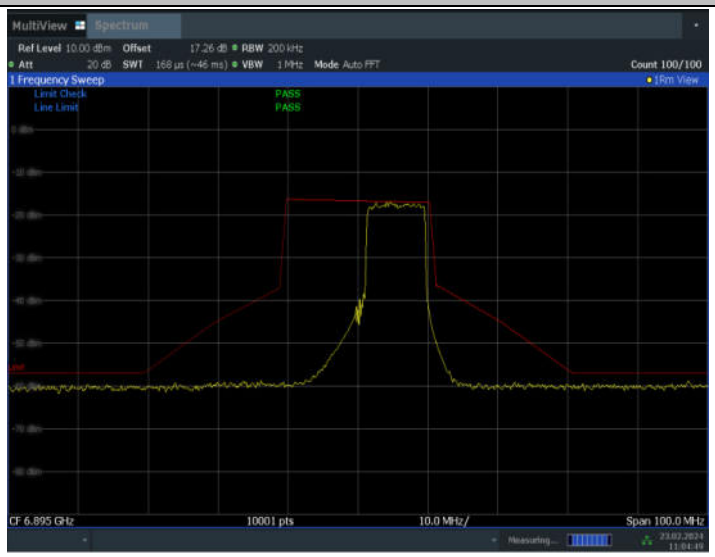
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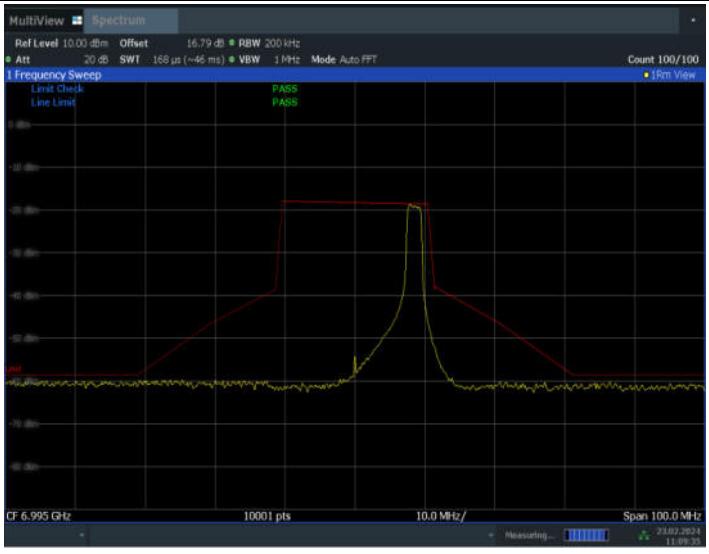
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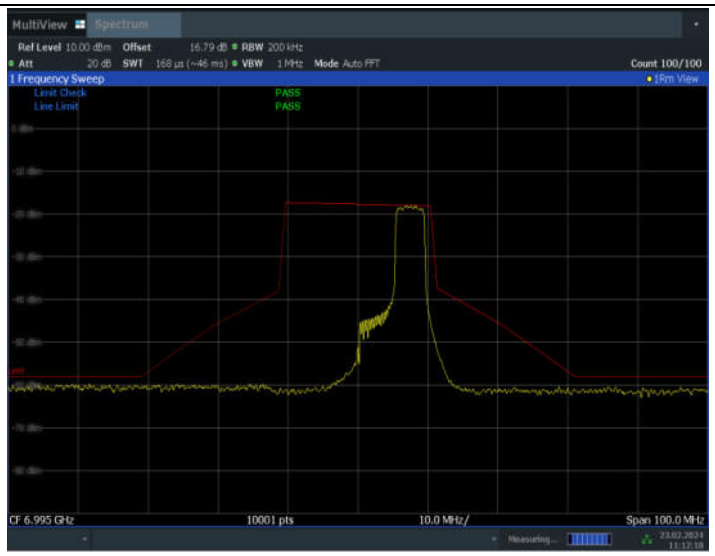

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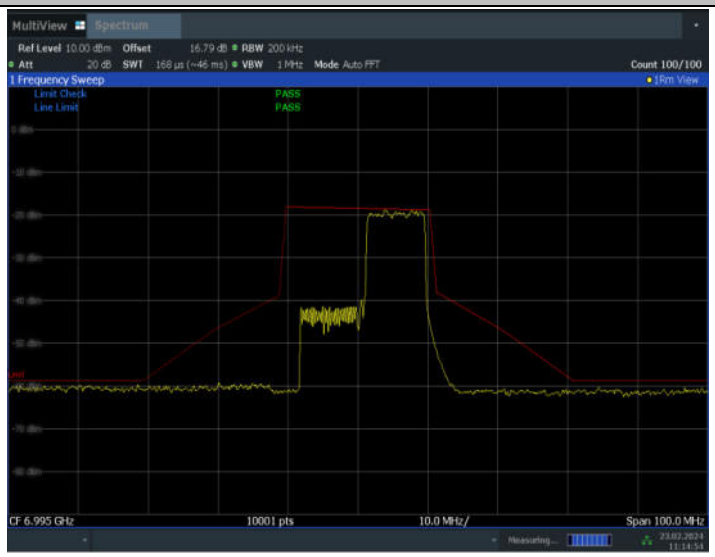

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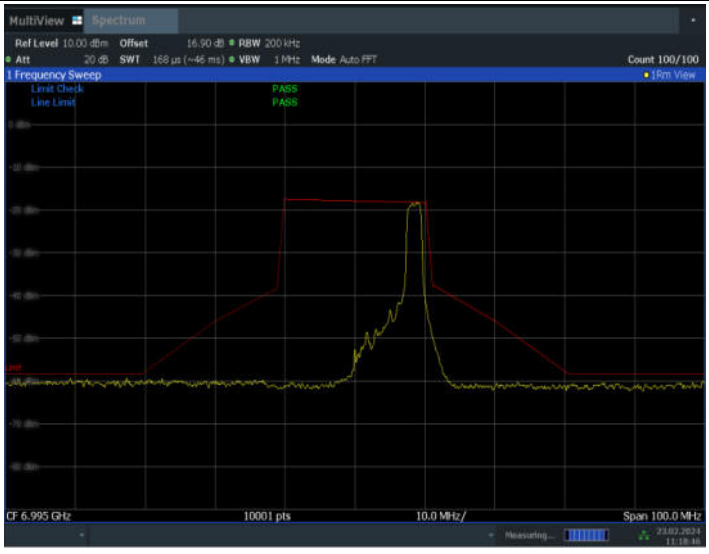

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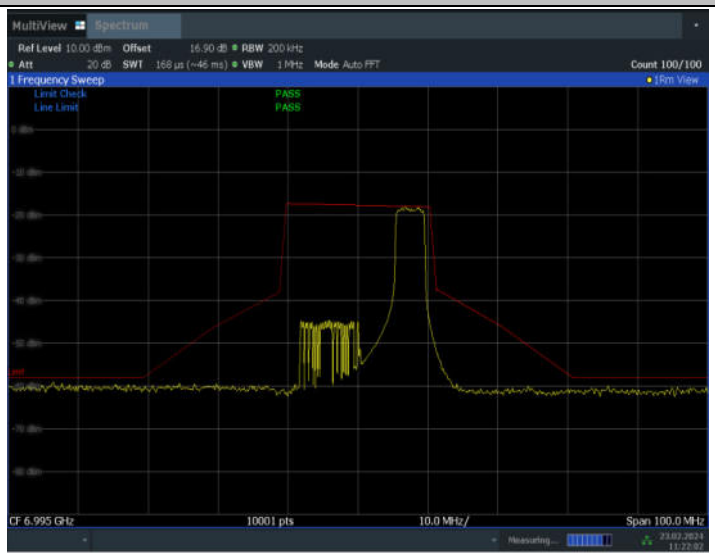
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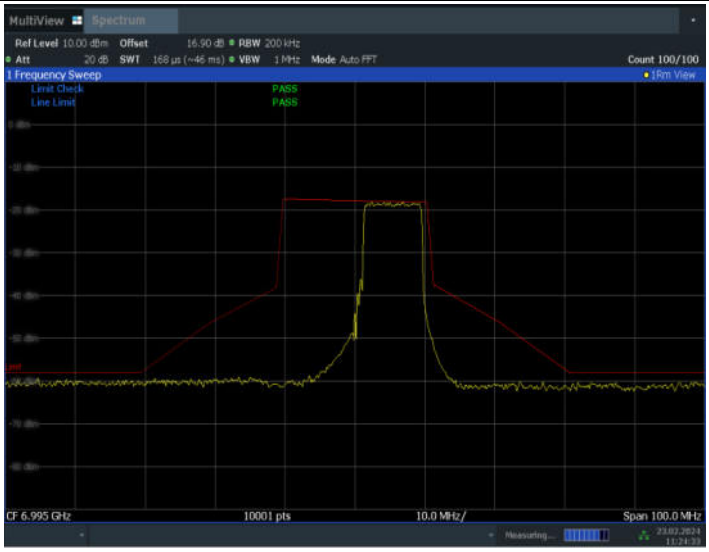
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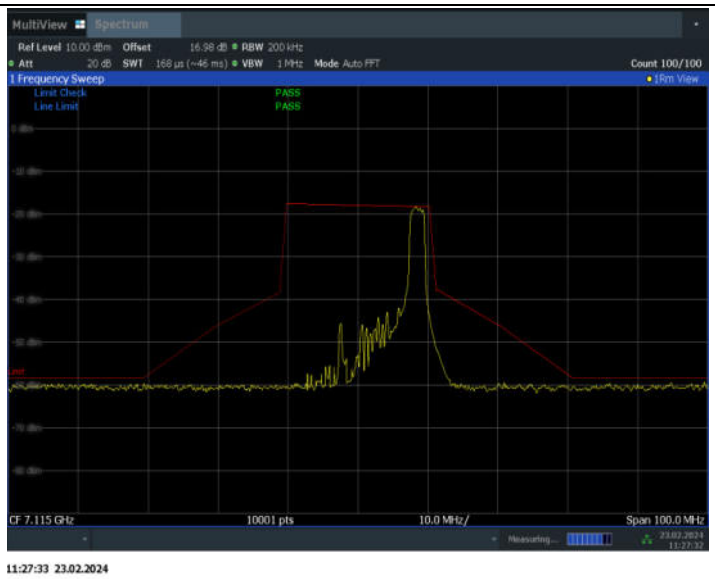

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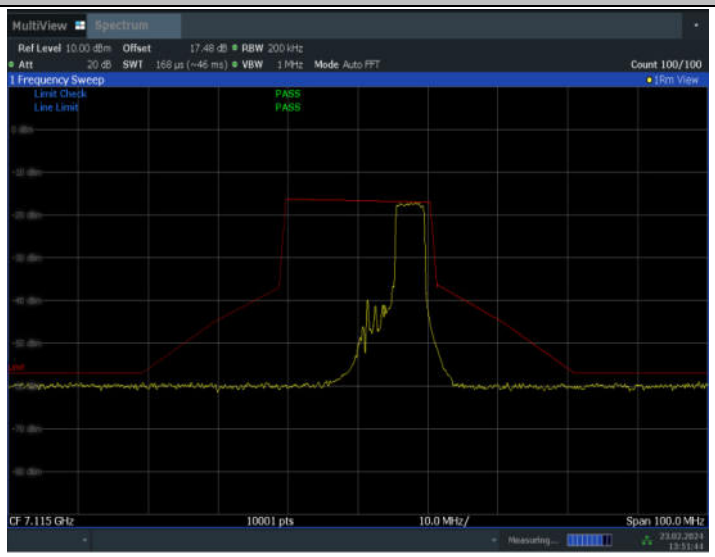

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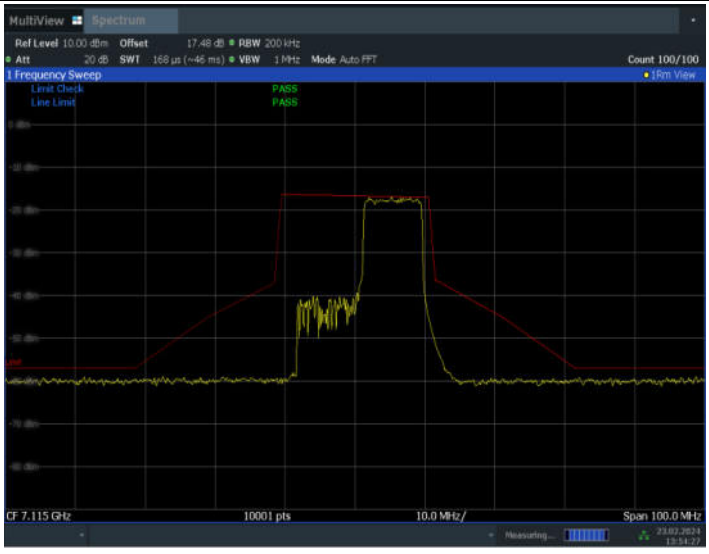

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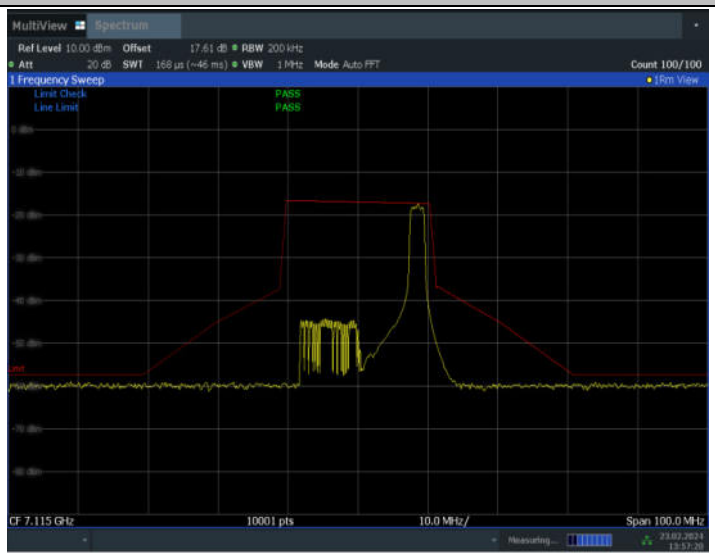
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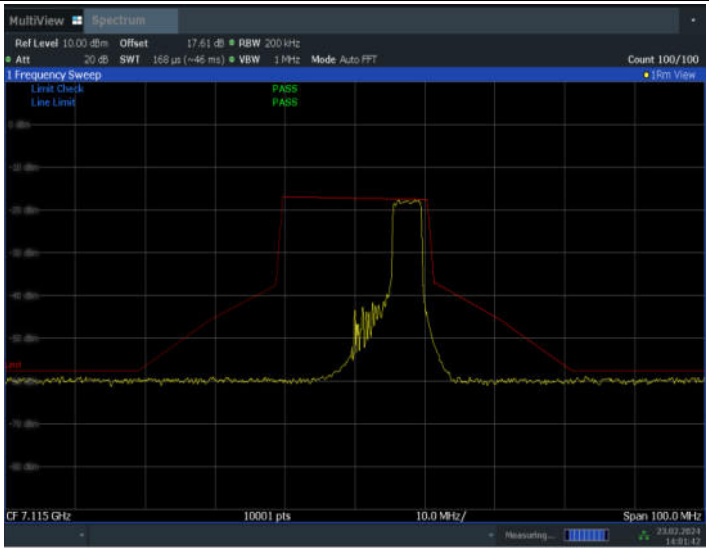
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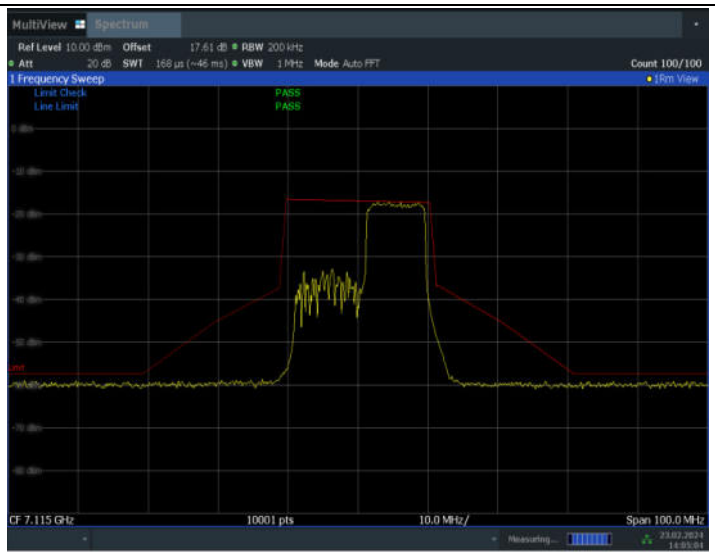

MultiView
Spectrum
Ref Level 10.00 dBm Offset 17.61 dB RBW 200 kHz
Att 20 dB SWT 168 µs (~46 ms) VBW 1 MHz Mode Auto FFT
Count 100/100
1 Frequency Sweep
1Rm View
Limit Check PASS
Line Limit PASS
CF 7.115 GHz
10001 pts
10.0 MHz/
Span 100.0 MHz
Measuring...
14:05:04 23.02.2024

A.8. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

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)).

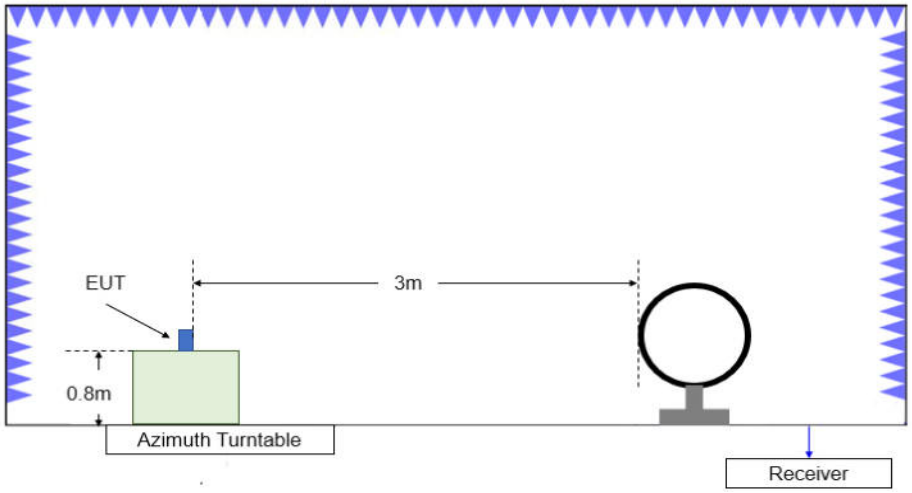
Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/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

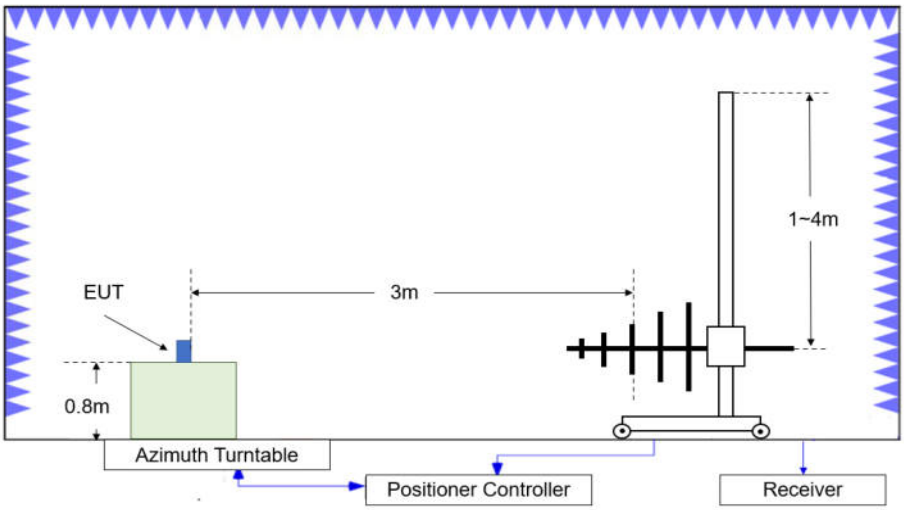
Frequency of emission (MHz)	Field strength (uV/m)	Field strength (dBuV/m)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

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

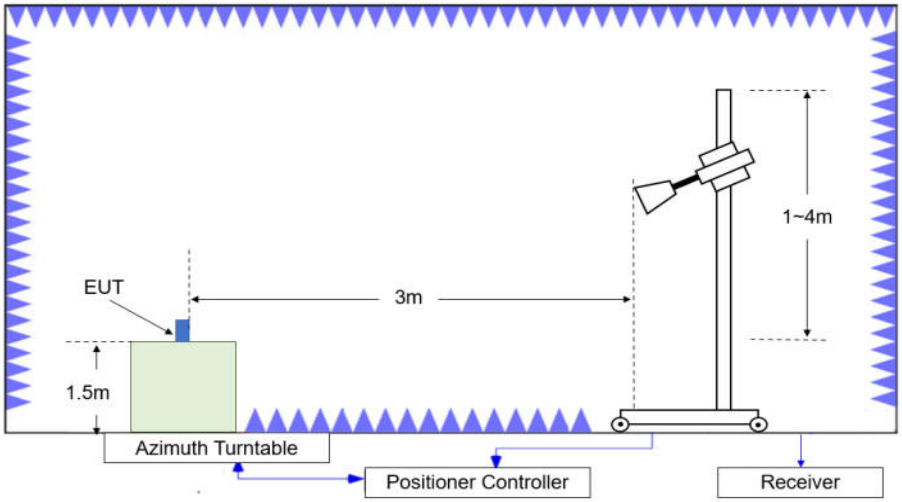
Test setup



Test Site Diagram (9kHz-30MHz)



Test Site Diagram (30MHz-1GHz)



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:

Result=P_{Mea}+$A_{Rpl=}$ P_{Mea}+Cable Loss+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 10^{th} harmonic of highest fundamental frequency or 40GHz, whichever is lower.
5. Both full RU and partial RU spurious emission was tested. And the results are basically noises with no suspicious emission. In this case, the measurement results of full RU were reported and represented worst cases.

Test Result

AVERAGE Results:

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Channel 1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.250	37.81	-29.55	45.95	21.41	54.00	16.19	H
17995.500	37.57	-29.55	45.95	21.17	54.00	16.43	H
13275.900	34.07	-31.62	40.60	25.09	54.00	19.93	H
13317.300	33.95	-31.26	40.65	24.56	54.00	20.05	H
5911.834	38.92	-27.15	34.30	31.77	68.20	29.28	V
5908.180	38.64	-27.15	34.30	31.49	68.20	29.56	V

Channel 45

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.850	36.28	-29.55	45.95	19.88	54.00	17.72	V
17997.300	36.21	-29.55	45.95	19.81	54.00	17.79	H
13294.800	32.04	-31.62	40.60	23.06	54.00	21.96	V
13273.200	31.91	-31.62	40.60	22.93	54.00	22.09	H
12491.550	31.53	-31.21	39.10	23.64	54.00	22.47	V
11856.150	31.32	-32.13	39.15	24.30	54.00	22.68	V

Channel 93

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17977.050	36.61	-29.55	45.95	20.21	54.00	17.39	H
17966.250	36.31	-29.55	45.95	19.91	54.00	17.69	V
13280.850	32.22	-31.62	40.60	23.24	54.00	21.78	H
13258.800	32.02	-31.65	40.50	23.17	54.00	21.98	H
11869.650	31.32	-32.13	39.15	24.30	54.00	22.68	V
11871.000	31.25	-32.13	39.15	24.23	54.00	22.75	H

Channel 97

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.700	37.27	-29.55	45.95	20.87	54.00	16.73	H
17994.150	37.19	-29.55	45.95	20.79	54.00	16.81	V
13274.100	33.74	-31.62	40.60	24.76	54.00	20.26	V
13301.550	33.62	-31.62	40.60	24.64	54.00	20.38	V
12299.850	33.08	-31.98	39.00	26.06	54.00	20.92	V
11866.050	33.02	-32.13	39.15	26.00	54.00	20.98	V

Channel 105

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.650	37.34	-29.55	45.95	20.94	54.00	16.66	V
17995.950	37.07	-29.55	45.95	20.67	54.00	16.93	V
13293.000	33.22	-31.62	40.60	24.24	54.00	20.78	V
13272.750	33.10	-31.62	40.60	24.12	54.00	20.90	V
11875.050	32.92	-32.13	39.15	25.90	54.00	21.08	V
11859.300	32.89	-32.13	39.15	25.87	54.00	21.11	H

Channel 113

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.150	37.69	-29.55	45.95	21.29	54.00	16.31	V
17998.650	37.19	-29.55	45.95	20.79	54.00	16.81	H
13273.200	33.50	-31.62	40.60	24.52	54.00	20.50	H
13270.950	33.47	-31.62	40.60	24.49	54.00	20.53	V
11861.100	32.82	-32.13	39.15	25.80	54.00	21.18	H
11868.750	32.65	-32.13	39.15	25.63	54.00	21.35	V

Channel 117

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.950	37.32	-29.55	45.95	20.92	54.00	16.68	H
17969.850	37.27	-29.55	45.95	20.87	54.00	16.73	H
13297.050	33.05	-31.62	40.60	24.07	54.00	20.95	H
13324.050	33.04	-31.26	40.65	23.65	54.00	20.96	V
11857.950	32.40	-32.13	39.15	25.38	54.00	21.60	V
11877.300	32.38	-32.13	39.15	25.36	54.00	21.62	V

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.300	37.20	-29.55	45.95	20.80	54.00	16.80	H
17962.650	37.11	-29.55	45.95	20.71	54.00	16.89	H
13307.850	33.13	-31.62	40.60	24.15	54.00	20.87	V
13291.650	32.93	-31.62	40.60	23.95	54.00	21.07	H
11866.950	32.61	-32.13	39.15	25.59	54.00	21.39	H
11876.850	32.58	-32.13	39.15	25.56	54.00	21.42	H

Channel 181

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.500	38.14	-29.55	45.95	21.74	54.00	15.86	H
17964.000	37.46	-29.55	45.95	21.06	54.00	16.54	V
9133.200	36.08	-33.82	37.70	32.20	54.00	17.92	V
9132.750	34.25	-33.82	37.70	30.37	54.00	19.75	V
13296.600	33.57	-31.62	40.60	24.59	54.00	20.43	H
13306.950	33.10	-31.62	40.60	24.12	54.00	20.90	V

Channel 185

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.100	35.66	-29.55	45.95	19.26	54.00	18.34	V
17963.550	35.59	-29.55	45.95	19.19	54.00	18.41	V
9399.600	32.44	-33.56	37.90	28.10	54.00	21.56	V
9400.050	31.79	-33.56	37.90	27.45	54.00	22.21	V
13297.050	31.50	-31.62	40.60	22.52	54.00	22.50	V
13309.650	31.50	-31.62	40.60	22.52	54.00	22.50	V

Channel 209

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17973.000	36.14	-29.55	45.95	19.74	54.00	17.86	V
17974.350	35.83	-29.55	45.95	19.43	54.00	18.17	V
9326.250	32.36	-33.74	37.80	28.30	54.00	21.64	V
9326.700	31.88	-33.74	37.80	27.82	54.00	22.12	V
13272.750	31.53	-31.62	40.60	22.55	54.00	22.47	H
13303.350	31.30	-31.62	40.60	22.32	54.00	22.70	V

Channel 233

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.350	36.00	-29.55	45.95	19.60	54.00	18.00	H
17993.700	35.85	-29.55	45.95	19.45	54.00	18.15	V
9486.450	33.19	-34.13	37.70	29.62	54.00	20.81	V
13267.350	31.54	-31.62	40.60	22.56	54.00	22.46	V
7125.027	56.29	-25.93	35.70	46.52	68.20	11.91	H
7125.357	53.97	-25.93	35.70	44.20	68.20	14.23	H

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Channel 3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17977.500	36.76	-29.55	45.95	20.36	54.00	17.24	V
17974.800	36.40	-29.55	45.95	20.00	54.00	17.60	H
13322.700	32.20	-31.26	40.65	22.81	54.00	21.80	H
13265.550	32.08	-31.65	40.50	23.23	54.00	21.92	V
5916.286	38.55	-27.15	34.30	31.40	68.20	29.65	H
5904.022	38.53	-27.15	34.30	31.38	68.20	29.67	V

Channel 43

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.600	36.60	-29.55	45.95	20.20	54.00	17.40	H
17972.550	36.43	-29.55	45.95	20.03	54.00	17.57	V
13298.850	32.39	-31.62	40.60	23.41	54.00	21.61	H
13284.000	32.08	-31.62	40.60	23.10	54.00	21.92	V
11855.700	31.55	-32.13	39.15	24.53	54.00	22.45	H
11876.400	31.39	-32.13	39.15	24.37	54.00	22.61	H

Channel 91

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.950	36.46	-29.55	45.95	20.06	54.00	17.54	V
17994.600	36.42	-29.55	45.95	20.02	54.00	17.58	V
13259.700	32.11	-31.65	40.50	23.26	54.00	21.89	V
13298.400	32.10	-31.62	40.60	23.12	54.00	21.90	V
11862.450	31.96	-32.13	39.15	24.94	54.00	22.04	H
11866.050	31.66	-32.13	39.15	24.64	54.00	22.34	V

Channel 99

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.200	37.16	-29.55	45.95	20.76	54.00	16.84	H
17992.800	37.09	-29.55	45.95	20.69	54.00	16.91	V
13350.150	33.02	-31.26	40.65	23.63	54.00	20.98	V
13261.050	33.00	-31.65	40.50	24.15	54.00	21.00	H
11864.700	32.38	-32.13	39.15	25.36	54.00	21.62	H
11866.500	32.38	-32.13	39.15	25.36	54.00	21.62	V

Channel 107

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.500	36.90	-29.55	45.95	20.50	54.00	17.10	H
17998.200	36.85	-29.55	45.95	20.45	54.00	17.15	H
13267.350	32.94	-31.62	40.60	23.96	54.00	21.06	V
13297.050	32.93	-31.62	40.60	23.95	54.00	21.07	H
11874.150	32.75	-32.13	39.15	25.73	54.00	21.25	V
11875.500	32.30	-32.13	39.15	25.28	54.00	21.70	V

Channel 115

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17960.400	36.80	-29.55	45.95	20.40	54.00	17.20	H
17973.900	36.70	-29.55	45.95	20.30	54.00	17.30	V
13262.850	32.88	-31.65	40.50	24.03	54.00	21.12	H
11875.950	32.86	-32.13	39.15	25.84	54.00	21.14	H
13314.150	32.85	-31.62	40.60	23.87	54.00	21.15	H
11866.050	32.55	-32.13	39.15	25.53	54.00	21.45	V

Channel 123

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.200	37.14	-29.55	45.95	20.74	54.00	16.86	V
17997.300	37.13	-29.55	45.95	20.73	54.00	16.87	H
13266.900	33.40	-31.65	40.50	24.55	54.00	20.60	V
13303.350	33.10	-31.62	40.60	24.12	54.00	20.90	H
11876.400	32.73	-32.13	39.15	25.71	54.00	21.27	H
11876.850	32.73	-32.13	39.15	25.71	54.00	21.27	H

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17995.050	37.48	-29.55	45.95	21.08	54.00	16.52	V
17969.850	37.37	-29.55	45.95	20.97	54.00	16.63	H
13273.650	33.03	-31.62	40.60	24.05	54.00	20.97	H
13275.450	32.95	-31.62	40.60	23.97	54.00	21.05	H
11865.150	32.74	-32.13	39.15	25.72	54.00	21.26	V
11863.800	32.53	-32.13	39.15	25.51	54.00	21.47	H

Channel 179

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17983.800	37.66	-29.55	45.95	21.26	54.00	16.34	H
17970.300	37.42	-29.55	45.95	21.02	54.00	16.58	V
9126.450	36.30	-33.82	37.70	32.42	54.00	17.70	V
9126.000	33.33	-33.82	37.70	29.45	54.00	20.67	V
13290.750	33.10	-31.62	40.60	24.12	54.00	20.90	H
13291.200	33.08	-31.62	40.60	24.10	54.00	20.92	H

Channel 187

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.600	36.09	-29.55	45.95	19.69	54.00	17.91	H
17964.450	36.05	-29.55	45.95	19.65	54.00	17.95	V
9179.550	33.94	-33.96	37.70	30.20	54.00	20.06	V
9180.000	33.61	-33.96	37.70	29.87	54.00	20.39	V
13274.100	31.95	-31.62	40.60	22.97	54.00	22.05	V
13287.150	31.90	-31.62	40.60	22.92	54.00	22.10	V

Channel 211

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.250	36.32	-29.55	45.95	19.92	54.00	17.68	H
17977.050	36.08	-29.55	45.95	19.68	54.00	17.92	V
9339.750	33.03	-33.74	37.80	28.97	54.00	20.97	V
13290.750	32.37	-31.62	40.60	23.39	54.00	21.63	V
11864.250	31.99	-32.13	39.15	24.97	54.00	22.01	V
13313.250	31.97	-31.62	40.60	22.99	54.00	22.03	H

Channel 227

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17963.550	36.33	-29.55	45.95	19.93	54.00	17.67	H
17973.000	36.22	-29.55	45.95	19.82	54.00	17.78	V
13295.250	32.05	-31.62	40.60	23.07	54.00	21.95	H
13278.600	31.96	-31.62	40.60	22.98	54.00	22.04	V
7213.170	42.07	-25.94	36.20	31.81	68.20	26.13	V
7229.835	41.97	-25.90	36.40	31.47	68.20	26.23	H

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Channel 7

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17977.950	36.68	-29.55	45.95	20.28	54.00	17.32	H
17975.250	36.56	-29.55	45.95	20.16	54.00	17.44	H
13278.150	32.18	-31.62	40.60	23.20	54.00	21.82	H
13302.900	32.17	-31.62	40.60	23.19	54.00	21.83	V
5899.990	43.85	-27.15	34.30	36.70	68.20	24.35	H
5924.084	43.58	-27.15	34.30	36.43	68.20	24.62	H

Channel 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17977.050	36.76	-29.55	45.95	20.36	54.00	17.24	V
17997.750	36.55	-29.55	45.95	20.15	54.00	17.45	V
13269.150	32.54	-31.62	40.60	23.56	54.00	21.46	V
13338.450	32.18	-31.26	40.65	22.79	54.00	21.82	V
11868.750	31.66	-32.13	39.15	24.64	54.00	22.34	V
11878.200	31.66	-32.13	39.15	24.64	54.00	22.34	H

Channel 87

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.600	37.14	-29.55	45.95	20.74	54.00	16.86	H
17961.300	36.38	-29.55	45.95	19.98	54.00	17.62	V
13284.450	32.46	-31.62	40.60	23.48	54.00	21.54	H
13297.050	32.44	-31.62	40.60	23.46	54.00	21.56	V
11875.500	32.18	-32.13	39.15	25.16	54.00	21.82	H
11857.050	32.01	-32.13	39.15	24.99	54.00	21.99	H

Channel 103

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17972.100	37.24	-29.55	45.95	20.84	54.00	16.76	H
17993.700	37.10	-29.55	45.95	20.70	54.00	16.90	V
13286.700	33.33	-31.62	40.60	24.35	54.00	20.67	H
13276.350	33.12	-31.62	40.60	24.14	54.00	20.88	H
11870.100	33.04	-32.13	39.15	26.02	54.00	20.96	V
11872.800	32.67	-32.13	39.15	25.65	54.00	21.33	V

Channel 119

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.650	37.08	-29.55	45.95	20.68	54.00	16.92	V
17987.400	36.87	-29.55	45.95	20.47	54.00	17.13	V
13272.300	32.96	-31.62	40.60	23.98	54.00	21.04	H
13290.300	32.96	-31.62	40.60	23.98	54.00	21.04	V
11861.100	32.82	-32.13	39.15	25.80	54.00	21.18	V
11865.600	32.45	-32.13	39.15	25.43	54.00	21.55	V

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.400	37.10	-29.55	45.95	20.70	54.00	16.90	H
17969.850	37.02	-29.55	45.95	20.62	54.00	16.98	H
13266.000	33.26	-31.65	40.50	24.41	54.00	20.74	V
13285.800	32.97	-31.62	40.60	23.99	54.00	21.03	V
11867.400	32.96	-32.13	39.15	25.94	54.00	21.04	H
11871.000	32.36	-32.13	39.15	25.34	54.00	21.64	V

Channel 183

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.300	37.79	-29.55	45.95	21.39	54.00	16.21	H
17991.900	37.61	-29.55	45.95	21.21	54.00	16.39	H
9153.000	34.83	-33.82	37.70	30.95	54.00	19.17	V
13263.750	33.87	-31.65	40.50	25.02	54.00	20.13	H
9153.450	33.86	-33.82	37.70	29.98	54.00	20.14	V
13296.600	33.81	-31.62	40.60	24.83	54.00	20.19	H

Channel 199

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17977.050	36.48	-29.55	45.95	20.08	54.00	17.52	H
17946.900	36.26	-29.55	45.95	19.86	54.00	17.74	V
13278.600	32.24	-31.62	40.60	23.26	54.00	21.76	V
13300.200	32.22	-31.62	40.60	23.24	54.00	21.78	V
11875.500	31.77	-32.13	39.15	24.75	54.00	22.23	H
11873.250	31.69	-32.13	39.15	24.67	54.00	22.31	V

Channel 215

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.500	36.60	-29.55	45.95	20.20	54.00	17.40	V
17994.600	36.47	-29.55	45.95	20.07	54.00	17.53	H
9366.300	33.05	-33.56	37.90	28.71	54.00	20.95	V
13273.650	32.00	-31.62	40.60	23.02	54.00	22.00	V
7127.568	45.23	-25.93	35.70	35.46	68.20	22.97	H
7125.522	44.19	-25.93	35.70	34.42	68.20	24.01	H

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Channel 15

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.350	36.52	-29.55	45.95	20.12	54.00	17.48	V
17955.900	36.46	-29.55	45.95	20.06	54.00	17.54	V
13294.350	32.51	-31.62	40.60	23.53	54.00	21.49	H
13260.150	32.30	-31.65	40.50	23.45	54.00	21.70	V
5888.706	46.50	-27.12	34.20	39.42	68.20	21.70	H
5898.856	46.36	-27.15	34.30	39.21	68.20	21.84	H

Channel 47

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.600	36.76	-29.55	45.95	20.36	54.00	17.24	H
17972.550	36.68	-29.55	45.95	20.28	54.00	17.32	H
13275.900	32.49	-31.62	40.60	23.51	54.00	21.51	H
13261.050	32.35	-31.65	40.50	23.50	54.00	21.65	V
11867.850	31.93	-32.13	39.15	24.91	54.00	22.07	H
11866.500	31.79	-32.13	39.15	24.77	54.00	22.21	V

Channel 79

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.350	36.59	-29.55	45.95	20.19	54.00	17.41	H
17991.450	36.47	-29.55	45.95	20.07	54.00	17.53	H
13301.100	32.81	-31.62	40.60	23.83	54.00	21.19	H
13304.250	32.58	-31.62	40.60	23.60	54.00	21.42	H
12698.550	31.76	-31.50	39.50	23.76	54.00	22.24	H
11879.100	31.73	-32.13	39.15	24.71	54.00	22.27	V

Channel 143

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17955.000	37.25	-29.55	45.95	20.85	54.00	16.75	H
17979.300	37.08	-29.55	45.95	20.68	54.00	16.92	V
13260.600	33.03	-31.65	40.50	24.18	54.00	20.97	H
13302.900	32.97	-31.62	40.60	23.99	54.00	21.03	V
11870.550	32.59	-32.13	39.15	25.57	54.00	21.41	V
11872.350	32.47	-32.13	39.15	25.45	54.00	21.53	V

Channel 207

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.850	36.32	-29.55	45.95	19.92	54.00	17.68	H
17981.550	36.11	-29.55	45.95	19.71	54.00	17.89	V
9313.200	35.44	-33.74	37.80	31.38	54.00	18.56	V
9312.750	33.27	-33.74	37.80	29.21	54.00	20.73	V
7145.256	48.94	-26.05	35.90	39.09	68.20	19.26	H
7139.019	48.71	-26.05	35.90	38.86	68.20	19.49	H

PEAK Results:

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Channel 1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17962.200	48.57	-29.55	45.95	32.17	74.00	25.43	H
17644.050	48.19	-29.80	45.40	32.59	88.20	40.01	H
13927.050	45.32	-31.02	41.40	34.94	88.20	42.88	H
14034.150	44.95	-31.25	41.60	34.60	88.20	43.25	H
5916.524	50.42	-27.15	34.30	43.27	88.20	37.78	H
5901.082	50.37	-27.15	34.30	43.22	88.20	37.83	H

Channel 45

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17530.200	46.89	-29.62	44.90	31.61	88.20	41.31	H
17965.350	46.86	-29.55	45.95	30.46	74.00	27.14	H
13671.450	43.79	-31.08	41.00	33.87	88.20	44.41	H
13897.350	43.44	-31.40	41.30	33.54	88.20	44.76	V
11903.850	42.37	-32.63	39.10	35.90	74.00	31.63	V
12798.450	41.82	-31.36	39.80	33.38	88.20	46.38	V

Channel 93

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17511.750	47.44	-29.14	44.55	32.03	88.20	40.76	V
17973.450	47.18	-29.55	45.95	30.78	74.00	26.82	V
13727.250	43.61	-31.33	41.10	33.84	88.20	44.59	V
13825.800	43.32	-30.55	41.25	32.62	88.20	44.88	V
12394.350	42.54	-31.51	38.90	35.15	74.00	31.46	H
12596.850	42.47	-31.43	39.30	34.60	74.00	31.53	H

Channel 97

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17943.300	47.84	-29.55	45.95	31.44	74.00	26.16	H
17967.150	47.74	-29.55	45.95	31.34	74.00	26.26	V
13906.350	45.38	-31.40	41.30	35.48	88.20	42.82	H
13576.500	44.90	-31.29	40.80	35.39	88.20	43.30	V
11857.950	44.02	-32.13	39.15	37.00	74.00	29.98	V
11887.650	44.00	-32.63	39.10	37.53	74.00	30.00	H

Channel 105

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17963.550	48.16	-29.55	45.95	31.76	74.00	25.84	V
17546.850	47.93	-29.62	44.90	32.65	88.20	40.27	V
13941.000	44.23	-31.02	41.40	33.85	88.20	43.97	H
14696.100	44.05	-30.35	41.50	32.90	88.20	44.15	H
11269.800	43.59	-33.01	38.65	37.95	74.00	30.41	V
12342.150	43.24	-32.38	38.95	36.67	74.00	30.76	V

Channel 113

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.250	47.89	-29.55	45.95	31.49	74.00	26.11	H
17504.100	47.41	-29.14	44.55	32.00	88.20	40.79	V
14121.450	44.68	-31.00	41.70	33.98	88.20	43.52	V
13789.350	44.46	-31.06	41.20	34.32	88.20	43.74	V
12523.500	43.03	-31.21	39.10	35.14	74.00	30.97	V
10675.800	43.01	-33.03	38.35	37.69	74.00	30.99	V

Channel 117

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17972.550	47.34	-29.55	45.95	30.94	74.00	26.66	H
17973.450	47.33	-29.55	45.95	30.93	74.00	26.67	H
13828.950	44.34	-30.55	41.25	33.64	88.20	43.86	H
14532.750	44.34	-30.71	41.90	33.15	88.20	43.86	H
11868.750	43.34	-32.13	39.15	36.32	74.00	30.66	V
11869.200	43.33	-32.13	39.15	36.31	74.00	30.67	V

Channel 149

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17610.300	47.72	-29.77	45.15	32.34	88.20	40.48	V
17970.750	47.59	-29.55	45.95	31.19	74.00	26.41	H
13939.650	44.69	-31.02	41.40	34.31	88.20	43.51	V
13689.000	44.26	-31.08	41.00	34.34	88.20	43.94	H
12269.250	43.16	-32.39	38.95	36.60	74.00	30.84	V
11911.050	43.15	-32.63	39.10	36.68	74.00	30.85	H

Channel 181

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.800	47.82	-29.55	45.95	31.42	74.00	26.18	H
17995.500	47.74	-29.55	45.95	31.34	74.00	26.26	H
13920.750	44.06	-31.02	41.40	33.68	88.20	44.14	H
13956.750	43.98	-31.02	41.40	33.60	88.20	44.22	H
12772.350	43.48	-31.36	39.80	35.04	88.20	44.72	V
12680.100	43.35	-31.50	39.50	35.35	74.00	30.65	V

Channel 185

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.100	46.72	-29.55	45.95	30.32	74.00	27.28	H
17361.000	46.33	-29.23	43.40	32.16	88.20	41.87	V
13855.500	42.84	-30.55	41.25	32.14	88.20	45.36	V
13954.050	42.78	-31.02	41.40	32.40	88.20	45.42	V
10491.300	41.03	-33.89	38.20	36.72	88.20	47.17	V
12608.550	40.77	-31.43	39.30	32.90	74.00	33.23	V

Channel 209

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17963.100	46.64	-29.55	45.95	30.24	74.00	27.36	V
17482.500	46.48	-29.14	44.55	31.07	88.20	41.72	H
13959.900	42.71	-31.02	41.40	32.33	88.20	45.49	V
13777.200	42.57	-31.06	41.20	32.43	88.20	45.63	V
12290.850	41.51	-31.98	39.00	34.49	74.00	32.49	H
10997.550	41.31	-32.98	38.60	35.69	74.00	32.69	V

Channel 233

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17999.100	46.50	-29.55	45.95	30.10	74.00	27.50	V
17969.400	46.32	-29.55	45.95	29.92	74.00	27.68	V
13735.800	43.63	-31.33	41.10	33.86	88.20	44.57	H
13737.150	43.23	-31.33	41.10	33.46	88.20	44.97	V
7125.192	62.41	-25.93	35.70	52.64	88.20	25.79	H
7125.027	60.78	-25.93	35.70	51.01	88.20	27.42	H

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Channel 3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17961.300	46.73	-29.55	45.95	30.33	74.00	27.27	H
17592.300	46.62	-29.77	45.15	31.24	88.20	41.58	H
13903.200	43.41	-31.40	41.30	33.51	88.20	44.79	H
14091.300	43.36	-30.70	41.70	32.36	88.20	44.84	H
5858.634	49.64	-27.12	34.20	42.56	88.20	38.56	V
5894.362	49.42	-27.15	34.30	42.27	88.20	38.78	H

Channel 43

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17572.950	46.86	-29.62	44.90	31.58	88.20	41.34	H
17916.300	46.63	-29.55	45.95	30.23	74.00	27.37	H
13959.000	43.23	-31.02	41.40	32.85	88.20	44.97	H
13837.500	43.17	-30.55	41.25	32.47	88.20	45.03	H
12732.300	42.70	-31.94	39.65	34.99	88.20	45.50	V
12511.800	42.03	-31.21	39.10	34.14	74.00	31.97	V

Channel 91

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.650	47.57	-29.55	45.95	31.17	74.00	26.43	V
17962.650	46.85	-29.55	45.95	30.45	74.00	27.15	H
13877.100	44.02	-31.40	41.30	34.12	88.20	44.18	H
13855.950	43.78	-30.55	41.25	33.08	88.20	44.42	V
12708.000	42.57	-31.50	39.50	34.57	88.20	45.63	V
12800.700	42.36	-31.36	39.80	33.92	88.20	45.84	V

Channel 99

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.400	48.03	-29.55	45.95	31.63	74.00	25.97	V
17991.450	47.50	-29.55	45.95	31.10	74.00	26.50	V
13946.400	44.41	-31.02	41.40	34.03	88.20	43.79	H
14056.650	44.06	-31.25	41.60	33.71	88.20	44.14	V
11864.250	43.65	-32.13	39.15	36.63	74.00	30.35	H
12728.250	43.48	-31.94	39.65	35.77	88.20	44.72	H

Channel 107

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17609.850	48.66	-29.77	45.15	33.28	88.20	39.54	H
17292.600	47.51	-29.74	42.90	34.35	88.20	40.69	H
12754.800	44.04	-31.94	39.65	36.33	88.20	44.16	H
13680.900	44.03	-31.08	41.00	34.11	88.20	44.17	V
13747.050	44.02	-31.33	41.10	34.25	88.20	44.18	V
12742.650	43.58	-31.94	39.65	35.87	88.20	44.62	V

Channel 115

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17963.100	47.61	-29.55	45.95	31.21	74.00	26.39	V
17995.950	47.40	-29.55	45.95	31.00	74.00	26.60	V
13819.050	44.53	-30.55	41.25	33.83	88.20	43.67	H
14064.750	43.98	-30.70	41.70	32.98	88.20	44.22	V
12710.250	43.48	-31.50	39.50	35.48	88.20	44.72	H
9142.200	43.05	-33.82	37.70	39.17	74.00	30.95	H

Channel 123

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.200	47.67	-29.55	45.95	31.27	74.00	26.33	H
17620.200	47.55	-29.77	45.15	32.17	88.20	40.65	H
14080.950	44.49	-30.70	41.70	33.49	88.20	43.71	V
13801.500	44.14	-31.06	41.20	34.00	88.20	44.06	V
11867.400	42.91	-32.13	39.15	35.89	74.00	31.09	V
9023.400	42.77	-33.67	37.80	38.65	74.00	31.23	H

Channel 155

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17603.100	47.51	-29.77	45.15	32.13	88.20	40.69	H
17517.600	47.36	-29.14	44.55	31.95	88.20	40.84	V
13864.950	44.16	-31.40	41.30	34.26	88.20	44.04	H
13661.550	44.07	-31.48	40.90	34.65	88.20	44.13	H
11869.650	43.98	-32.13	39.15	36.96	74.00	30.02	V
12310.650	43.21	-31.98	39.00	36.19	74.00	30.79	V

Channel 179

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17507.250	47.73	-29.14	44.55	32.32	88.20	40.47	V
17970.300	47.57	-29.55	45.95	31.17	74.00	26.43	H
13791.150	44.33	-31.06	41.20	34.19	88.20	43.87	H
11877.300	44.21	-32.13	39.15	37.19	74.00	29.79	H
13797.900	44.12	-31.06	41.20	33.98	88.20	44.08	H
11862.450	43.10	-32.13	39.15	36.08	74.00	30.90	V

Channel 187

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.700	47.45	-29.55	45.95	31.05	74.00	26.55	V
17632.800	46.73	-29.80	45.40	31.13	88.20	41.47	H
13794.750	43.52	-31.06	41.20	33.38	88.20	44.68	V
14076.000	43.23	-30.70	41.70	32.23	88.20	44.97	H
12737.250	42.78	-31.94	39.65	35.07	88.20	45.42	V
11851.200	41.93	-32.13	39.15	34.91	74.00	32.07	H

Channel 211

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17334.450	47.20	-29.23	43.40	33.03	88.20	41.00	V
17287.650	46.62	-29.74	42.90	33.46	88.20	41.58	V
13836.150	43.90	-30.55	41.25	33.20	88.20	44.30	V
13594.050	43.24	-31.29	40.80	33.73	88.20	44.96	V
12726.000	41.80	-31.94	39.65	34.09	88.20	46.40	V
12264.300	41.77	-32.39	38.95	35.21	74.00	32.23	V

Channel 227

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17913.150	47.39	-29.55	45.95	30.99	74.00	26.61	H
17522.550	47.05	-29.14	44.55	31.64	88.20	41.15	V
13918.500	43.31	-31.02	41.40	32.93	88.20	44.89	H
14081.850	43.27	-30.70	41.70	32.27	88.20	44.93	V
7212.807	53.22	-25.94	36.20	42.96	88.20	34.98	V
7221.849	52.96	-25.94	36.20	42.70	88.20	35.24	V

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Channel 7

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.300	47.29	-29.55	45.95	30.89	74.00	26.71	H
16986.600	46.88	-29.70	40.85	35.73	88.20	41.32	V
14088.600	43.85	-30.70	41.70	32.85	88.20	44.35	V
13728.150	43.66	-31.33	41.10	33.89	88.20	44.54	H
5923.426	53.44	-27.15	34.30	46.29	88.20	34.76	H
5910.490	53.43	-27.15	34.30	46.28	88.20	34.77	H

Channel 39

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17977.500	46.83	-29.55	45.95	30.43	74.00	27.17	V
17989.650	46.75	-29.55	45.95	30.35	74.00	27.25	V
13966.200	43.78	-30.97	41.50	33.25	88.20	44.42	V
13264.650	43.67	-31.65	40.50	34.82	74.00	30.33	V
11869.200	42.25	-32.13	39.15	35.23	74.00	31.75	V
11864.700	42.09	-32.13	39.15	35.07	74.00	31.91	H

Channel 87

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.250	47.77	-29.55	45.95	31.37	74.00	26.23	H
17283.150	46.99	-29.74	42.90	33.83	88.20	41.21	H
13934.700	44.84	-31.02	41.40	34.46	88.20	43.36	V
13260.150	43.38	-31.65	40.50	34.53	74.00	30.62	V
12598.650	43.10	-31.43	39.30	35.23	74.00	30.90	V
12689.550	42.92	-31.50	39.50	34.92	74.00	31.08	V

Channel 103

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17491.500	47.67	-29.14	44.55	32.26	88.20	40.53	H
17969.400	47.65	-29.55	45.95	31.25	74.00	26.35	V
13797.900	44.21	-31.06	41.20	34.07	88.20	43.99	H
13825.350	44.15	-30.55	41.25	33.45	88.20	44.05	V
11866.050	43.43	-32.13	39.15	36.41	74.00	30.57	V
9232.650	42.85	-33.93	37.60	39.18	88.20	45.35	V

Channel 119

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17635.950	48.21	-29.80	45.40	32.61	88.20	39.99	V
17977.950	47.77	-29.55	45.95	31.37	74.00	26.23	V
13993.200	44.88	-30.97	41.50	34.35	88.20	43.32	H
13919.850	44.37	-31.02	41.40	33.99	88.20	43.83	V
12268.800	43.12	-32.39	38.95	36.56	74.00	30.88	V
11870.100	43.06	-32.13	39.15	36.04	74.00	30.94	V

Channel 151

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17611.650	47.71	-29.77	45.15	32.33	88.20	40.49	H
17220.600	47.52	-29.30	42.05	34.77	88.20	40.68	H
14591.700	44.49	-29.81	41.90	32.40	88.20	43.71	V
13786.650	44.25	-31.06	41.20	34.11	88.20	43.95	V
12688.650	43.28	-31.50	39.50	35.28	74.00	30.72	H
12285.000	43.07	-31.98	39.00	36.05	74.00	30.93	V

Channel 183

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.300	47.92	-29.55	45.95	31.52	74.00	26.08	H
17491.950	47.77	-29.14	44.55	32.36	88.20	40.43	H
13836.600	44.84	-30.55	41.25	34.14	88.20	43.36	H
14561.550	44.81	-29.81	41.90	32.72	88.20	43.39	H
11860.650	44.20	-32.13	39.15	37.18	74.00	29.80	H
11863.800	44.01	-32.13	39.15	36.99	74.00	29.99	H

Channel 199

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17258.400	46.75	-29.62	42.40	33.97	88.20	41.45	V
17976.600	46.41	-29.55	45.95	30.01	74.00	27.59	H
13714.650	43.73	-31.33	41.10	33.96	88.20	44.47	H
13910.400	43.62	-31.40	41.30	33.72	88.20	44.58	V
11853.000	42.53	-32.13	39.15	35.51	74.00	31.47	V
9613.350	42.44	-33.85	37.60	38.69	88.20	45.76	V

Channel 215

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.600	47.09	-29.55	45.95	30.69	74.00	26.91	V
17947.800	47.04	-29.55	45.95	30.64	74.00	26.96	H
13938.750	43.41	-31.02	41.40	33.03	88.20	44.79	V
13909.500	43.12	-31.40	41.30	33.22	88.20	45.08	V
7145.949	57.55	-26.05	35.90	47.70	88.20	30.65	H
7130.769	56.94	-26.05	35.90	47.09	88.20	31.26	H

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Channel 15

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17516.250	46.90	-29.14	44.55	31.49	88.20	41.30	V
17346.600	46.73	-29.23	43.40	32.56	88.20	41.47	V
14077.350	43.91	-30.70	41.70	32.91	88.20	44.29	V
13939.650	43.69	-31.02	41.40	33.31	88.20	44.51	H
5892.878	56.88	-27.15	34.30	49.73	88.20	31.32	H
5905.184	56.65	-27.15	34.30	49.50	88.20	31.55	H

Channel 47

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.150	47.49	-29.55	45.95	31.09	74.00	26.51	H
17386.200	47.12	-29.51	43.80	32.83	88.20	41.08	H
13656.150	44.18	-31.48	40.90	34.76	88.20	44.02	H
13859.550	44.10	-30.55	41.25	33.40	88.20	44.10	V
9605.250	42.15	-33.85	37.60	38.40	88.20	46.05	V
12766.050	42.06	-31.94	39.65	34.35	88.20	46.14	H

Channel 79

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.200	48.07	-29.55	45.95	31.67	74.00	25.93	H
17483.400	47.39	-29.14	44.55	31.98	88.20	40.81	H
13731.750	43.81	-31.33	41.10	34.04	88.20	44.39	H
13830.300	43.49	-30.55	41.25	32.79	88.20	44.71	V
12613.050	42.80	-31.43	39.30	34.93	74.00	31.20	H
12708.900	42.52	-31.50	39.50	34.52	88.20	45.68	V

Channel 143

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17478.000	47.54	-29.14	44.55	32.13	88.20	40.66	H
17491.950	47.53	-29.14	44.55	32.12	88.20	40.67	V
14707.350	44.29	-30.18	41.35	33.12	88.20	43.91	H
13936.050	44.14	-31.02	41.40	33.76	88.20	44.06	V
10523.250	43.16	-33.01	38.20	37.97	88.20	45.04	V
9577.350	42.85	-34.11	37.50	39.46	88.20	45.35	V

Channel 207

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17958.600	47.52	-29.55	45.95	31.12	74.00	26.48	V
17600.850	47.20	-29.77	45.15	31.82	88.20	41.00	H
13794.300	43.56	-31.06	41.20	33.42	88.20	44.64	V
13687.200	43.43	-31.08	41.00	33.51	88.20	44.77	V
7131.693	59.37	-26.05	35.90	49.52	88.20	28.83	H
7145.751	59.27	-26.05	35.90	49.42	88.20	28.93	H

Conclusion: PASS

Band edge compliance

Measurement Result for full RU:

Mode	Channel	Test Results	Conclusion
802.11ax 20M	CH1	Fig.5	P
	CH233	Fig.6	P
802.11ax 40M	CH3	Fig.7	P
	CH227	Fig.8	P
802.11ax 80M	CH7	Fig.9	P
	CH215	Fig.10	P
802.11ax 160M	CH15	Fig.11	P
	CH207	Fig.12	P

Measurement Result for Partial RU:

Mode	Channel	RU size and index	Test Results	Conclusion
802.11ax 20M	CH1	26RU-index0	Fig.13	P
	CH233	6RU-index8	Fig.14	P
802.11ax 40M	CH3	26RU-index0	Fig.15	P
	CH227	26RU-index17	Fig.16	P
802.11ax 80M	CH7	26RU-index0	Fig.17	P
	CH215	26RU-index36	Fig.18	P
802.11ax 160M	CH15	26RU-index0	Fig.19	P
	CH207	26RU-index72	Fig.20	P

Note: All SISO and MIMO emissions have been checked, only the worst cases were reported.

Conclusion: PASS

Test graphs as below:

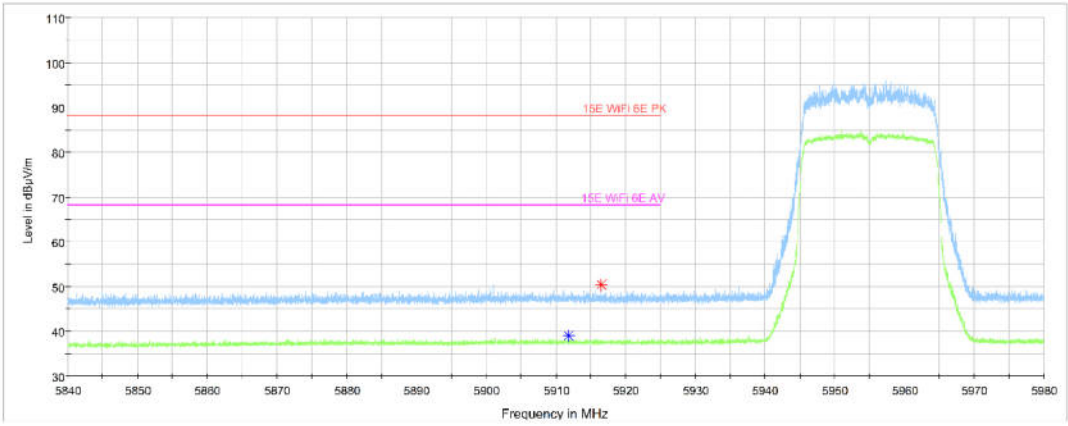

Fig.5 Band Edges (802.11ax 20M Ch1 full RU CHAIN 0)

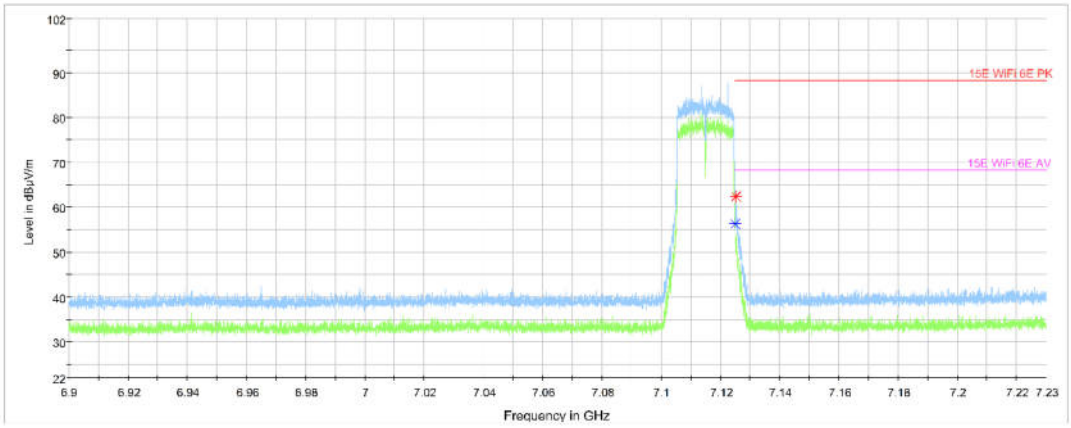

Fig.6 Band Edges (802.11ax 20M Ch233 full RU CHAIN 0)

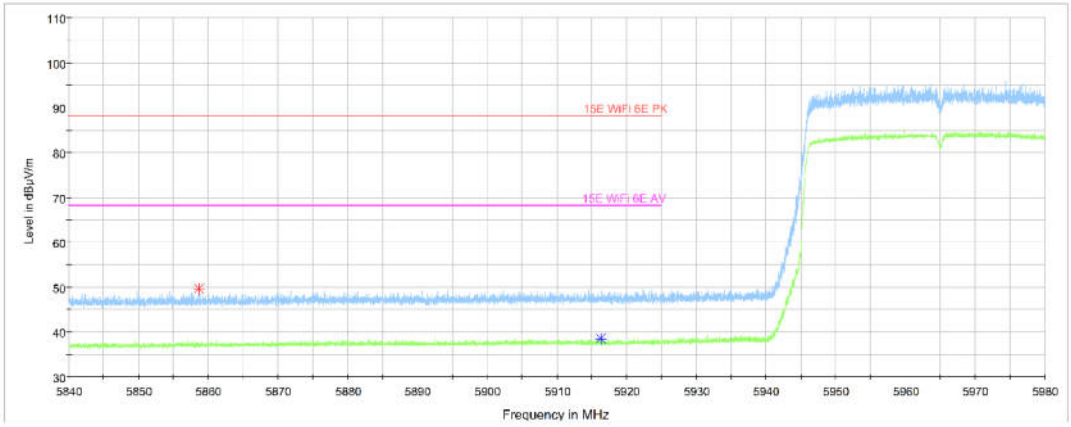

Fig.7 Band Edges (802.11ax 40M Ch3 full RU CHAIN 0)

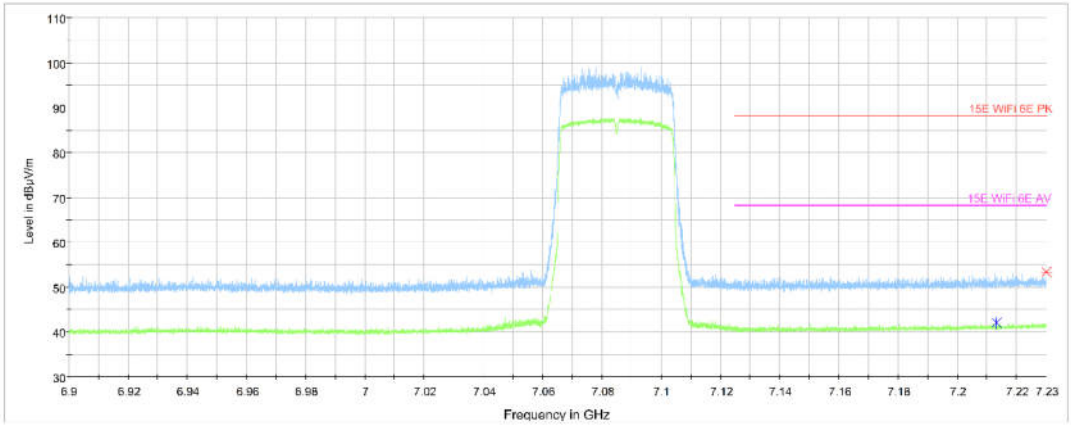

Fig.8 Band Edges (802.11ax 40M Ch227 full RU CHAIN 0)

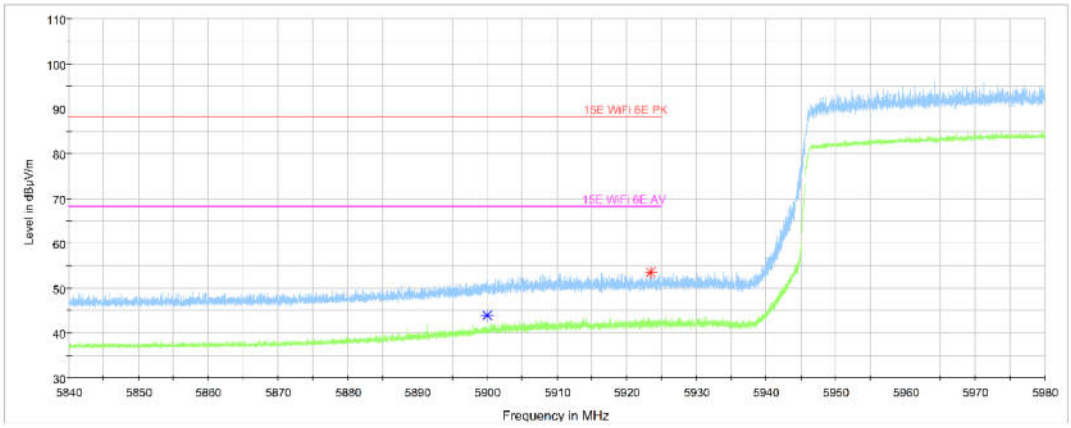

Fig.9 Band Edges (802.11ax 80M Ch7 full RU CHAIN 0)

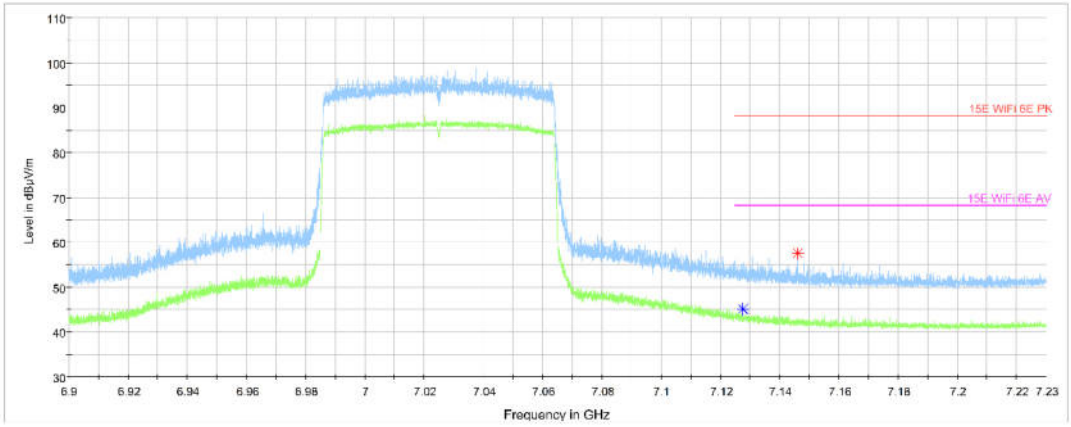

Fig.10 Band Edges (802.11ax 80M Ch215 full RU CHAIN 0)

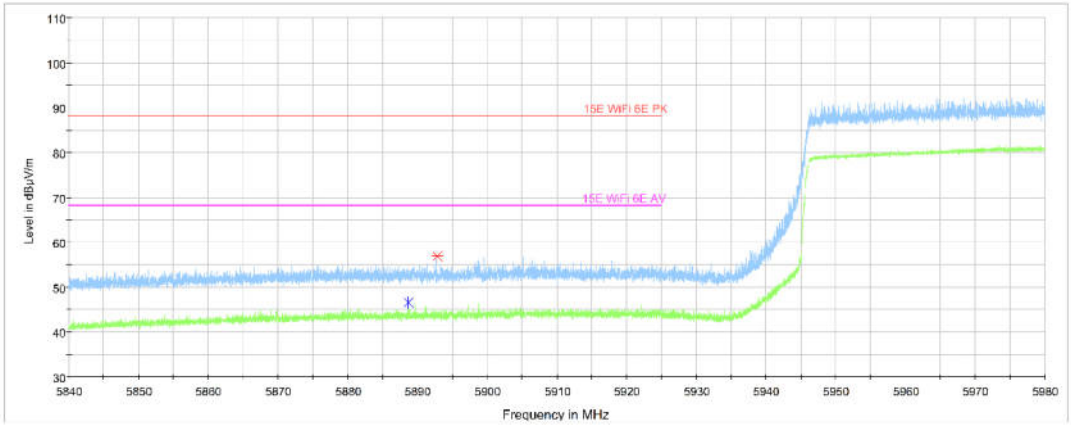

Fig.11 Band Edges (802.11ax 160M Ch15 full RU CHAIN 0)

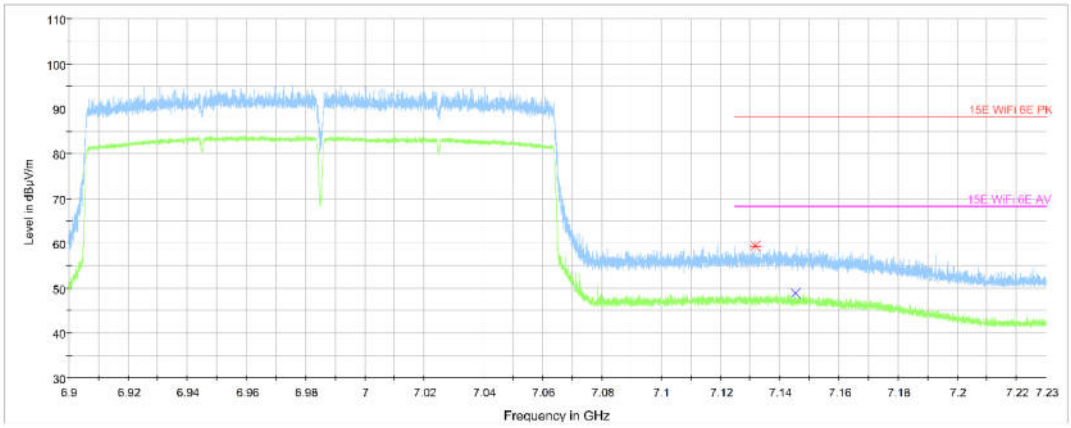

Fig.12 Band Edges (802.11ax 160M Ch207 full RU CHAIN 0)

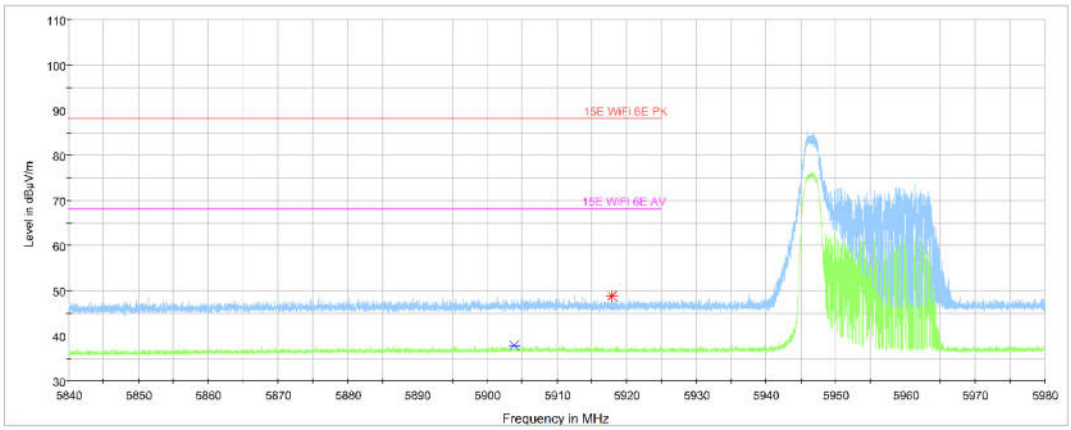

Fig.13 Band Edges (802.11ax 20M Ch1 partial RU MIMO)

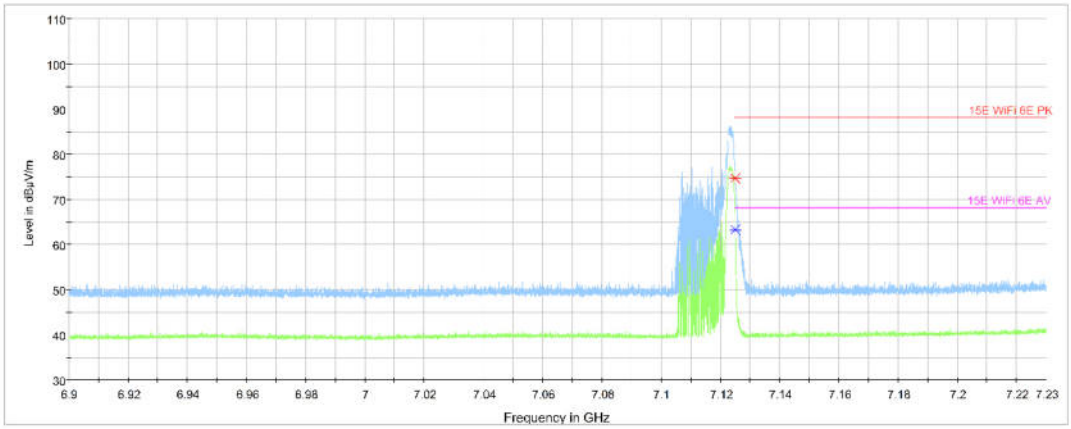

Fig.14 Band Edges (802.11ax 20M Ch233 partial RU MIMO)

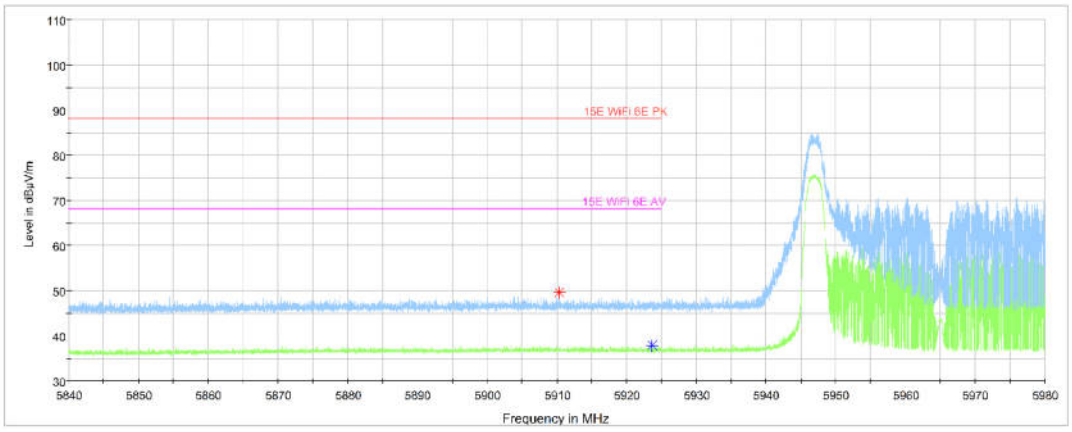

Fig.15 Band Edges (802.11ax 40M Ch3 partial RU MIMO)

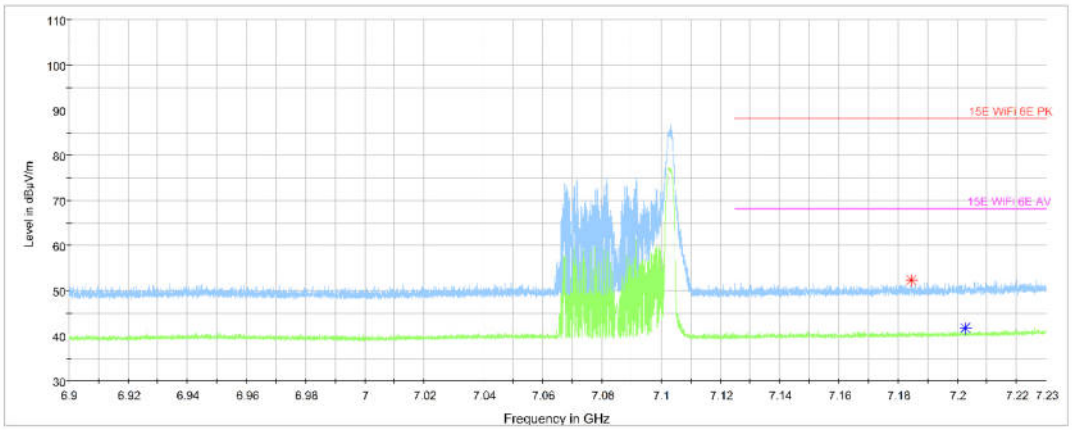

Fig.16 Band Edges (802.11ax 40M Ch227 partial RU MIMO)

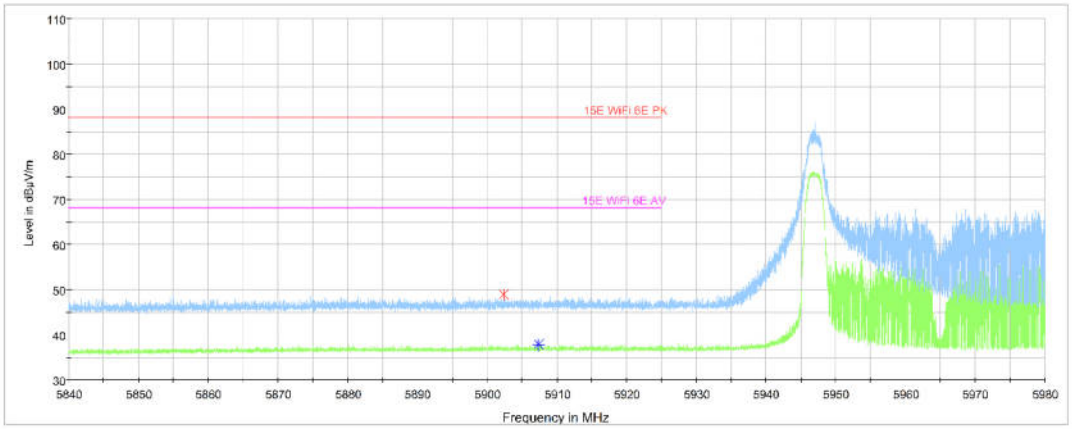

Fig.17 Band Edges (802.11ax 80M Ch7 partial RU MIMO)

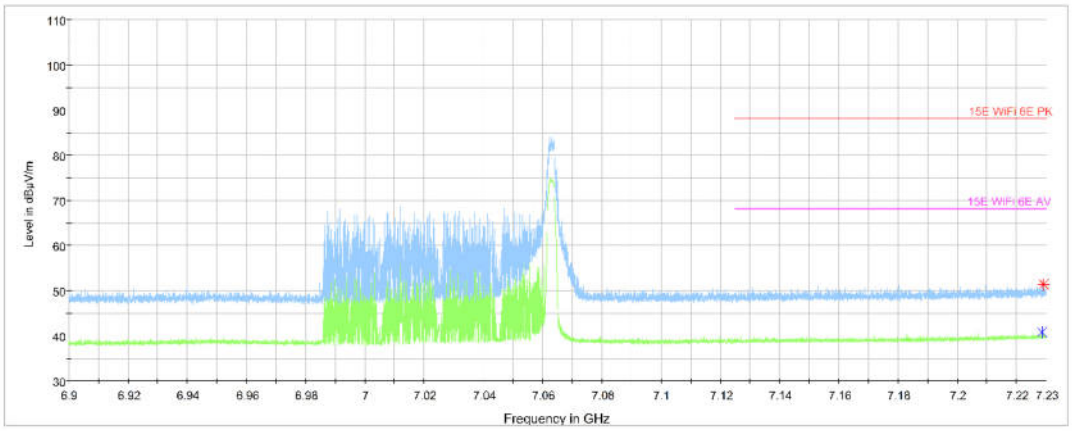

Fig.18 Band Edges (802.11ax 80M Ch215 partial RU MIMO)

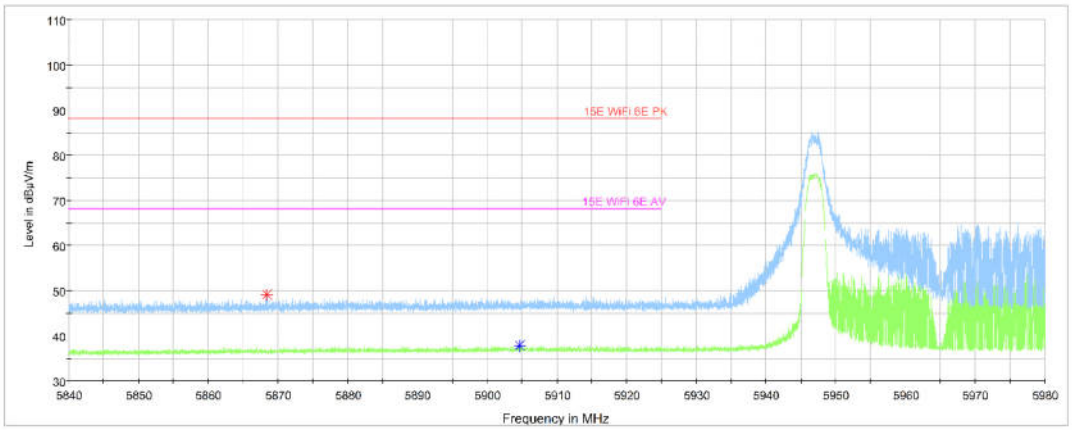

Fig.19 Band Edges (802.11ax 160M Ch15 partial RU MIMO)

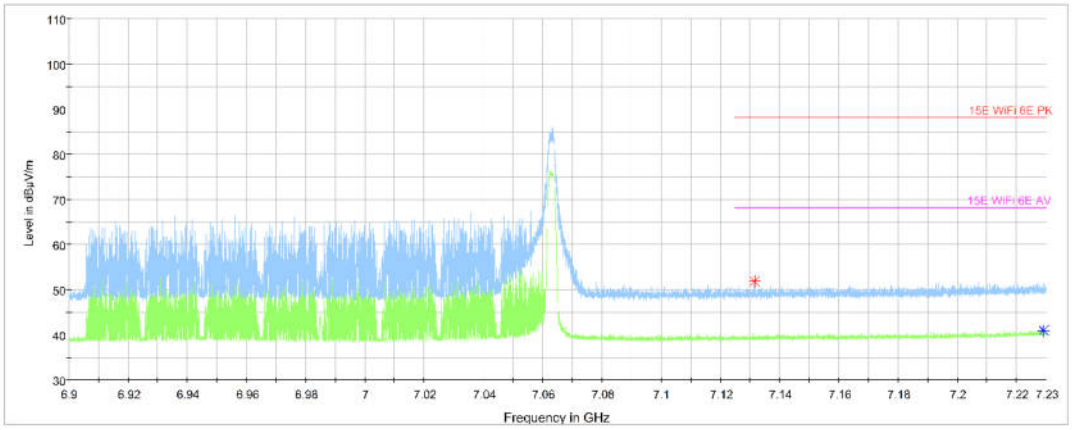

Fig.20 Band Edges (802.11ax 160M Ch207 partial RU MIMO)

A.9. AC Powerline Conducted Emission (150kHz- 30MHz)

Test Condition:

Voltage（V）	Frequency（Hz）
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.08dB, k=2.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11ax	Idle	
0.15 to 0.5	66 to 56	Fig.21	Fig.22	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 (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11ax	Idle	
0.15 to 0.5	67 56 to 46	Fig.21	Fig.22	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:

Traffic:

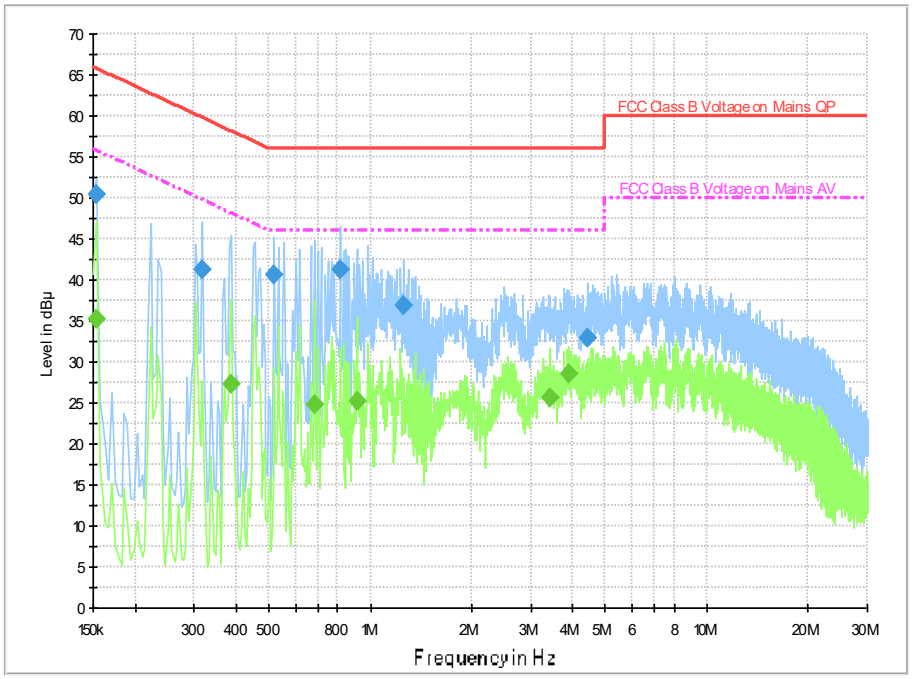

Fig.21 Conducted Emission (802.11ax, Ch1, TX)

Note1: 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 (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154000	50.4	2000.0	9.000	On	L1	19.9	15.3	65.8
0.318000	41.2	2000.0	9.000	On	L1	19.7	18.6	59.8
0.518000	40.7	2000.0	9.000	On	N	19.7	15.3	56.0
0.814000	41.3	2000.0	9.000	On	L1	19.7	14.7	56.0
1.262000	36.9	2000.0	9.000	On	N	19.6	19.1	56.0
4.418000	33.0	2000.0	9.000	On	N	19.6	23.0	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154000	35.1	2000.0	9.000	On	N	19.9	20.7	55.8
0.386000	27.3	2000.0	9.000	On	N	19.7	20.9	48.1
0.682000	24.7	2000.0	9.000	On	L1	19.7	21.3	46.0
0.914000	25.2	2000.0	9.000	On	L1	19.7	20.8	46.0
3.418000	25.6	2000.0	9.000	On	L1	19.6	20.4	46.0
3.914000	28.5	2000.0	9.000	On	L1	19.6	17.5	46.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:

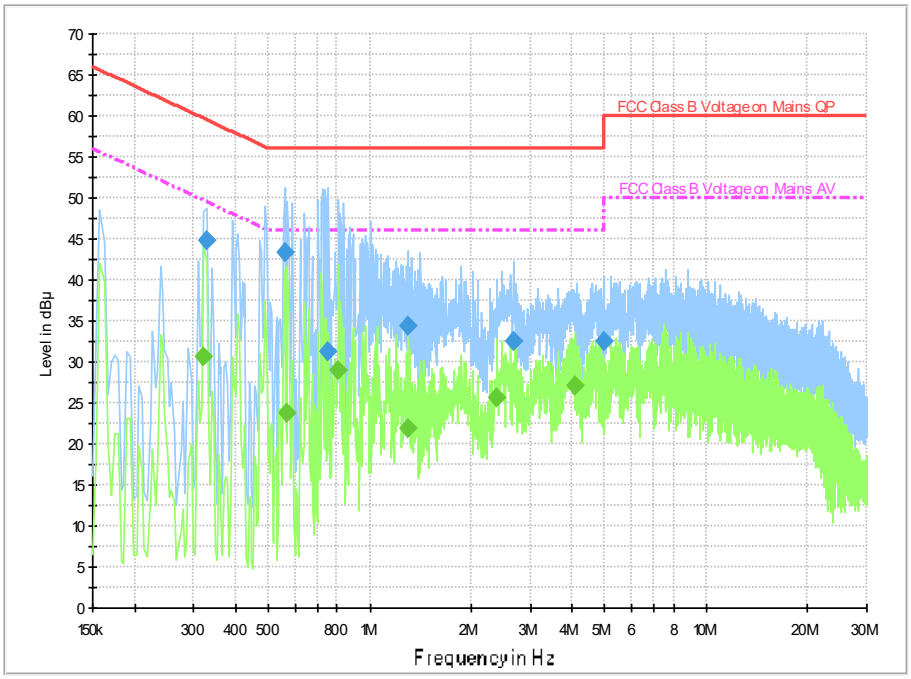

Fig.22 Conducted Emission(802.11ax, CH1 IDLE)

Note1: 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 (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.326000	44.9	2000.0	9.000	On	L1	19.7	14.7	59.6
0.558000	43.3	2000.0	9.000	On	L1	19.7	12.7	56.0
0.754000	31.2	2000.0	9.000	On	L1	19.7	24.8	56.0
1.298000	34.3	2000.0	9.000	On	N	19.6	21.7	56.0
2.666000	32.5	2000.0	9.000	On	N	19.6	23.5	56.0
4.946000	32.5	2000.0	9.000	On	L1	19.6	23.5	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.326000	44.9	2000.0	9.000	On	L1	19.7	14.7	59.6
0.558000	43.3	2000.0	9.000	On	L1	19.7	12.7	56.0
0.754000	31.2	2000.0	9.000	On	L1	19.7	24.8	56.0
1.298000	34.3	2000.0	9.000	On	N	19.6	21.7	56.0
2.666000	32.5	2000.0	9.000	On	N	19.6	23.5	56.0
4.946000	32.5	2000.0	9.000	On	L1	19.6	23.5	56.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

A.10. Antenna Requirement

The antenna of the device is permanently attached. There are no provisions for connection to an external antenna.

The unit complies with the requirement of FCC Part 15.203.

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 McInturff, 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 BODY *****