

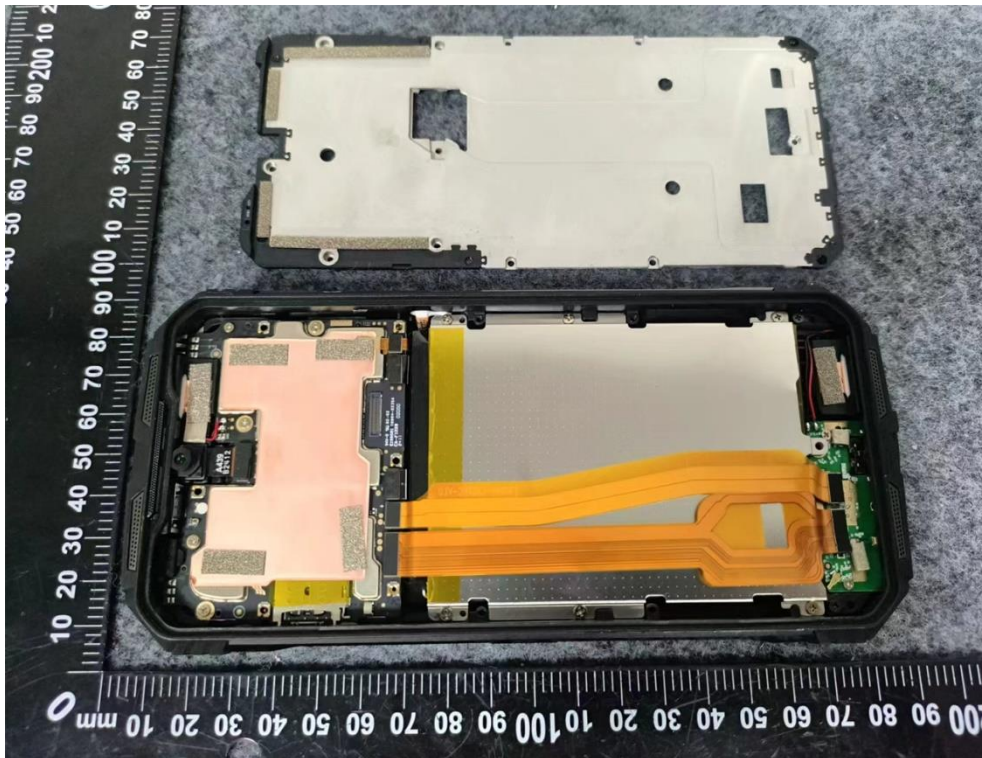
11. PHOTOS OF EUT

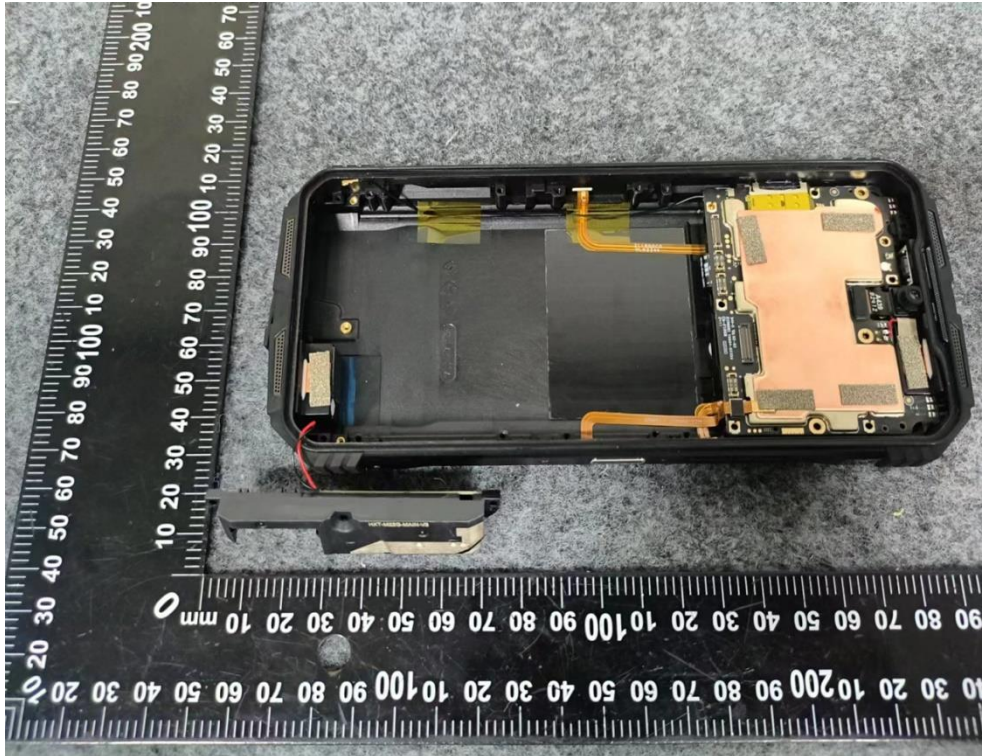


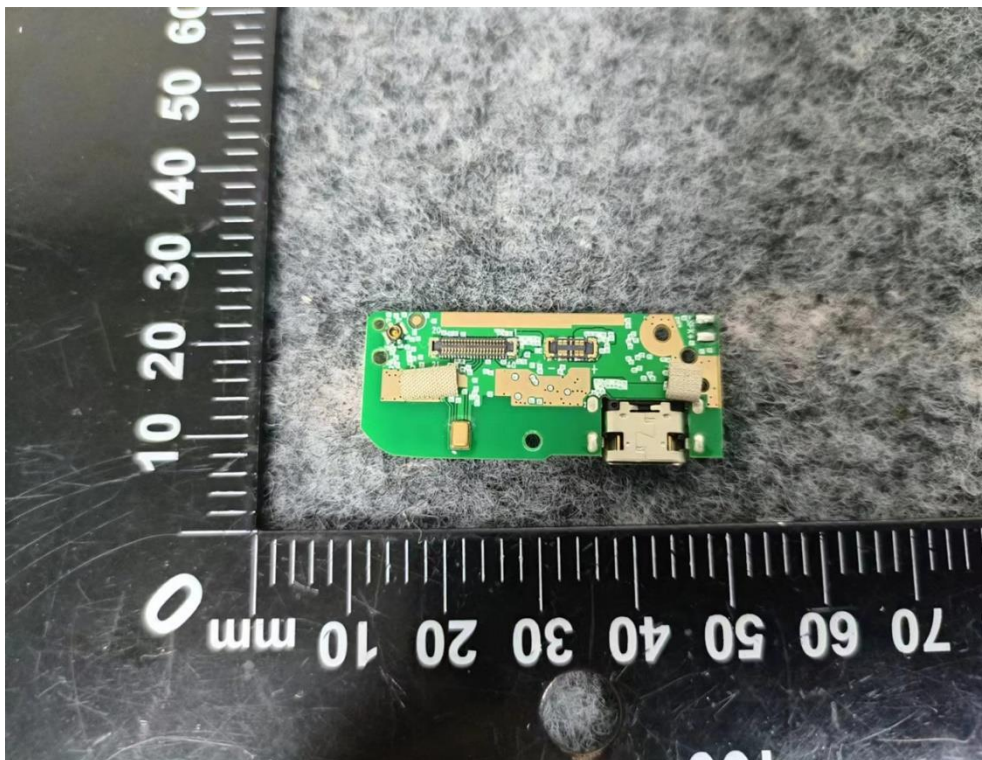
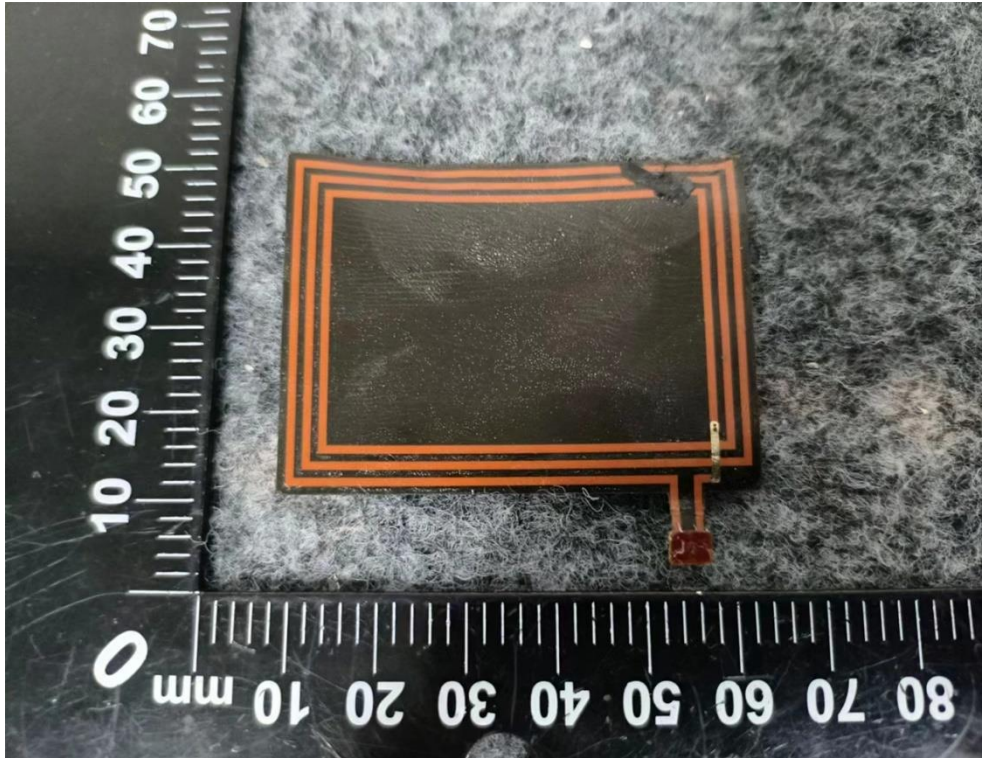


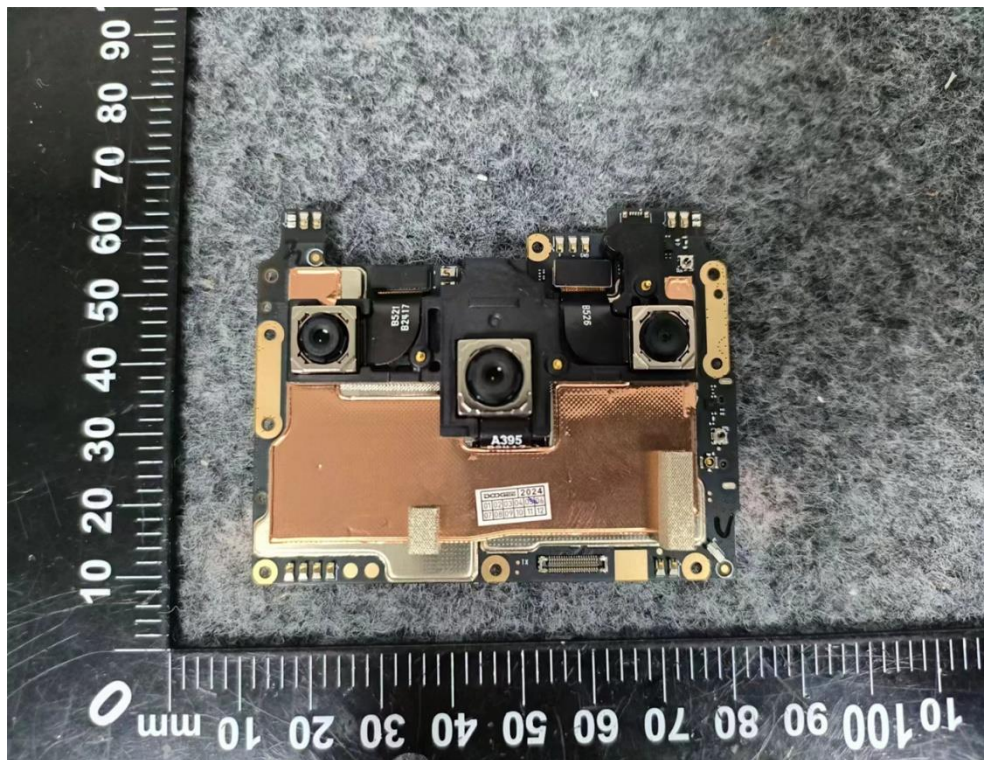
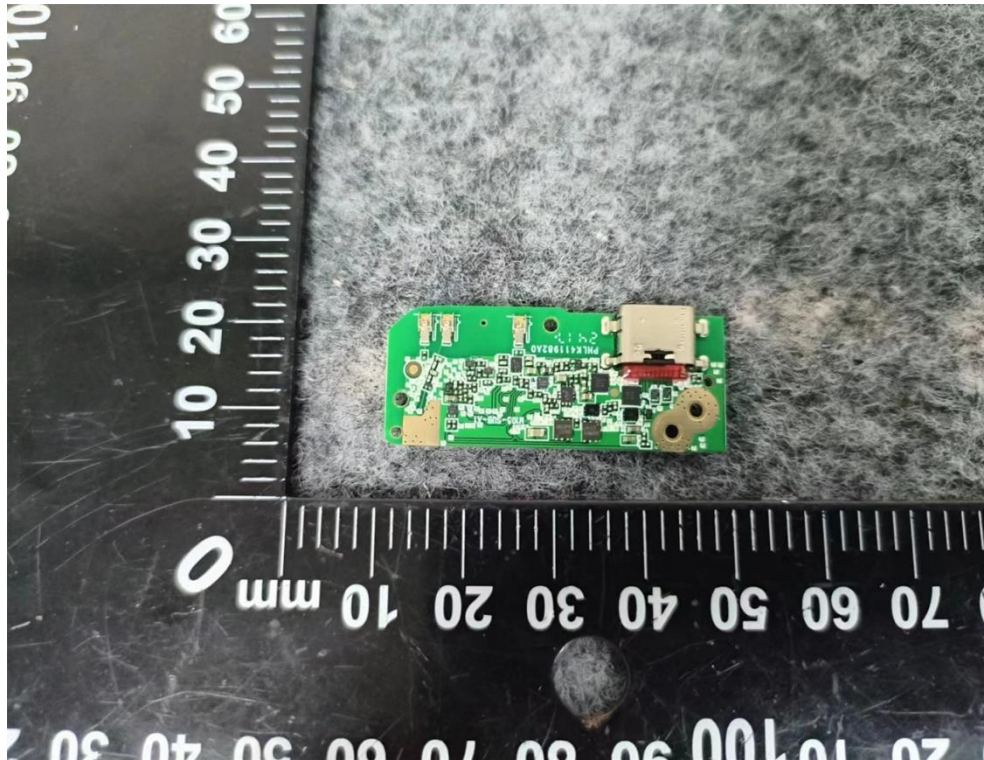


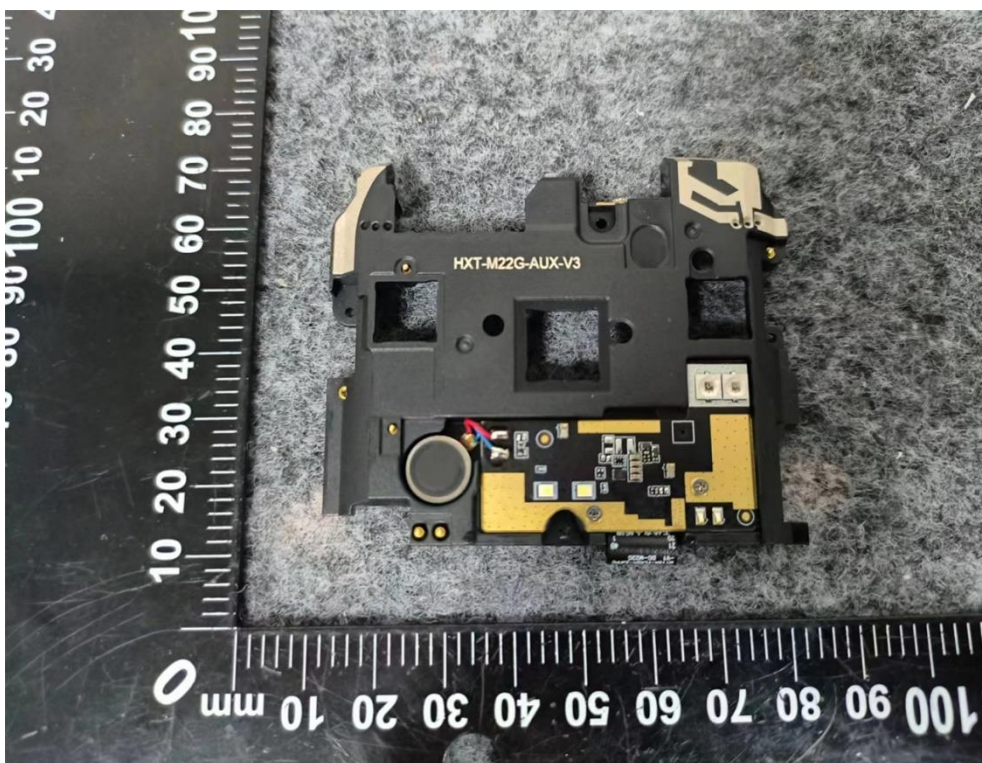
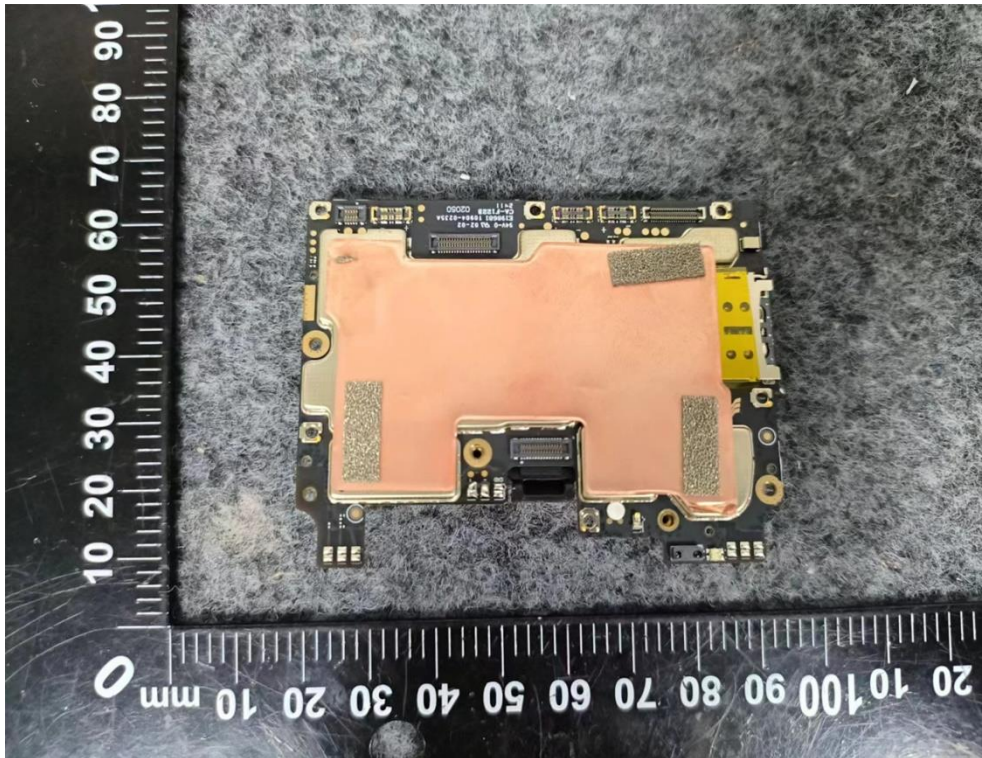


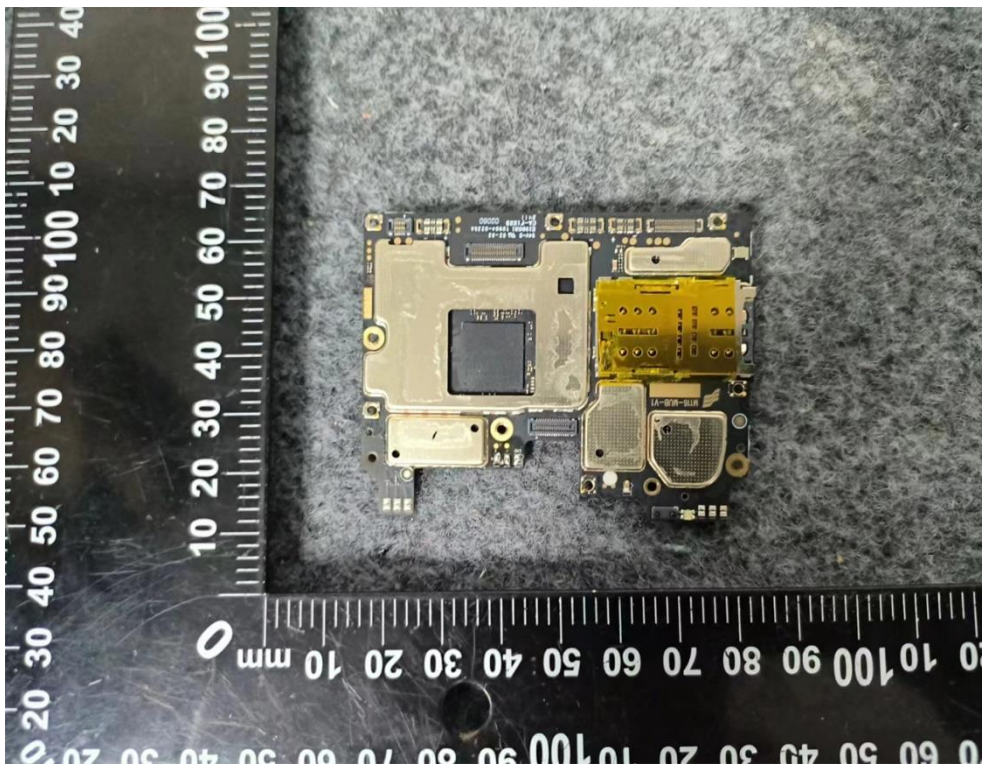
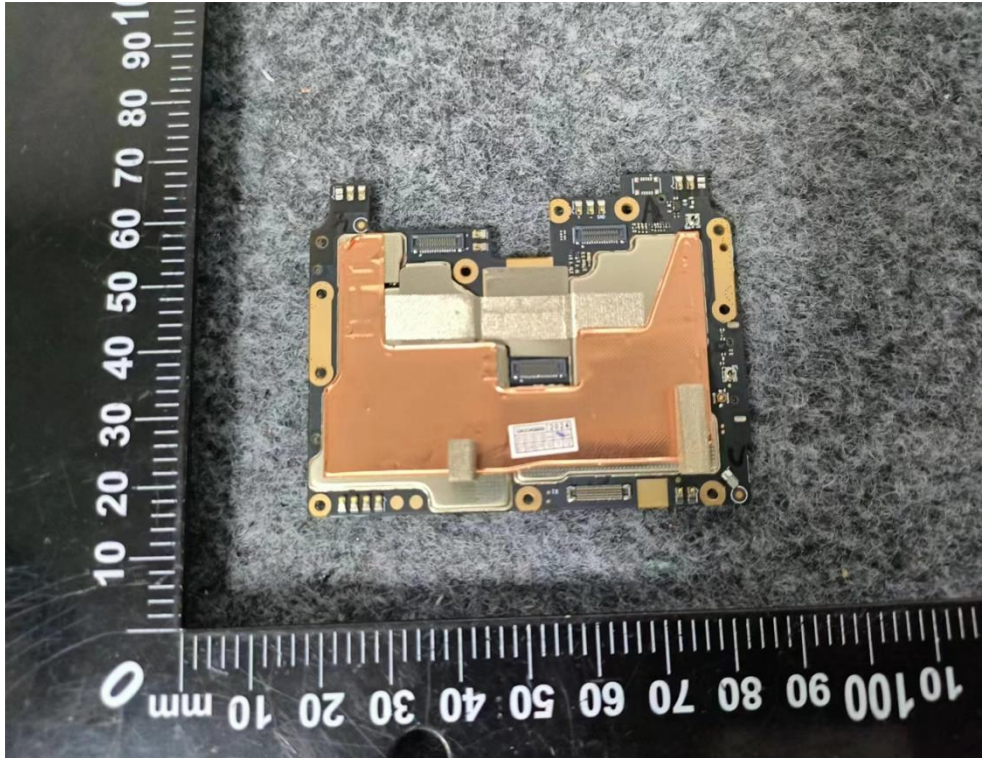


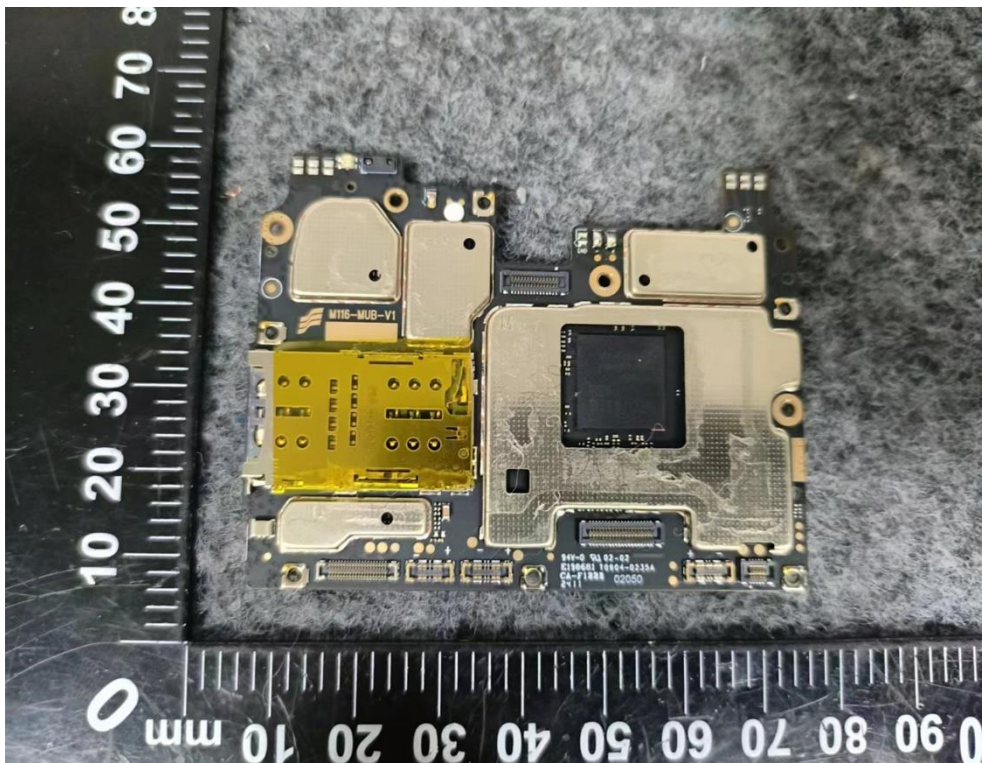
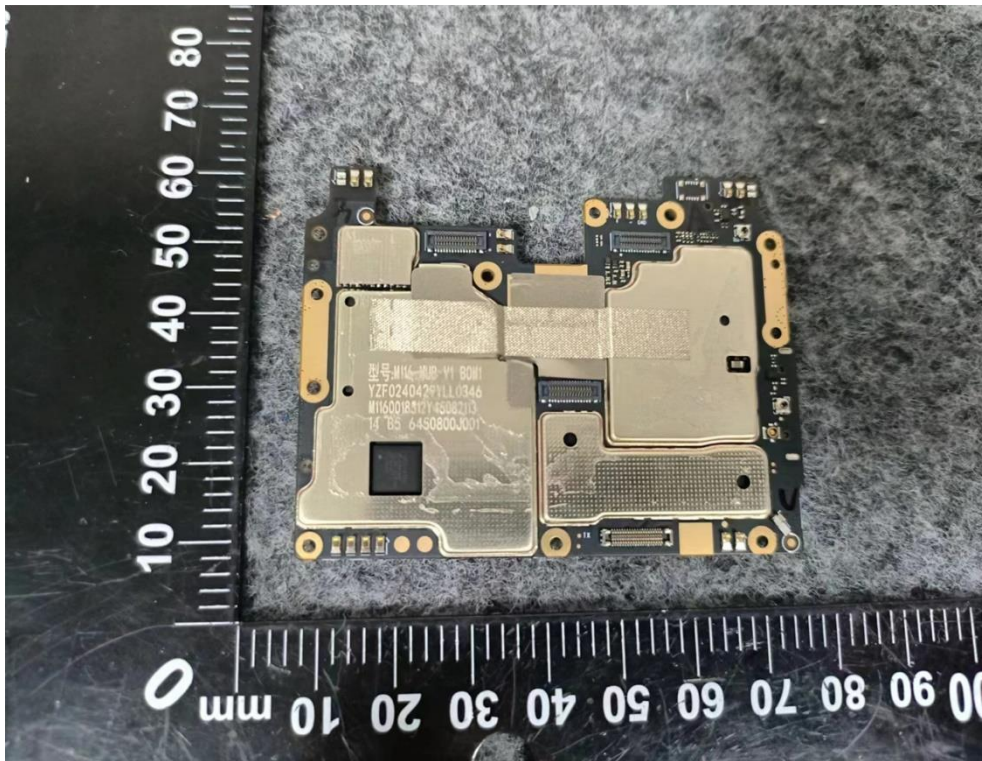


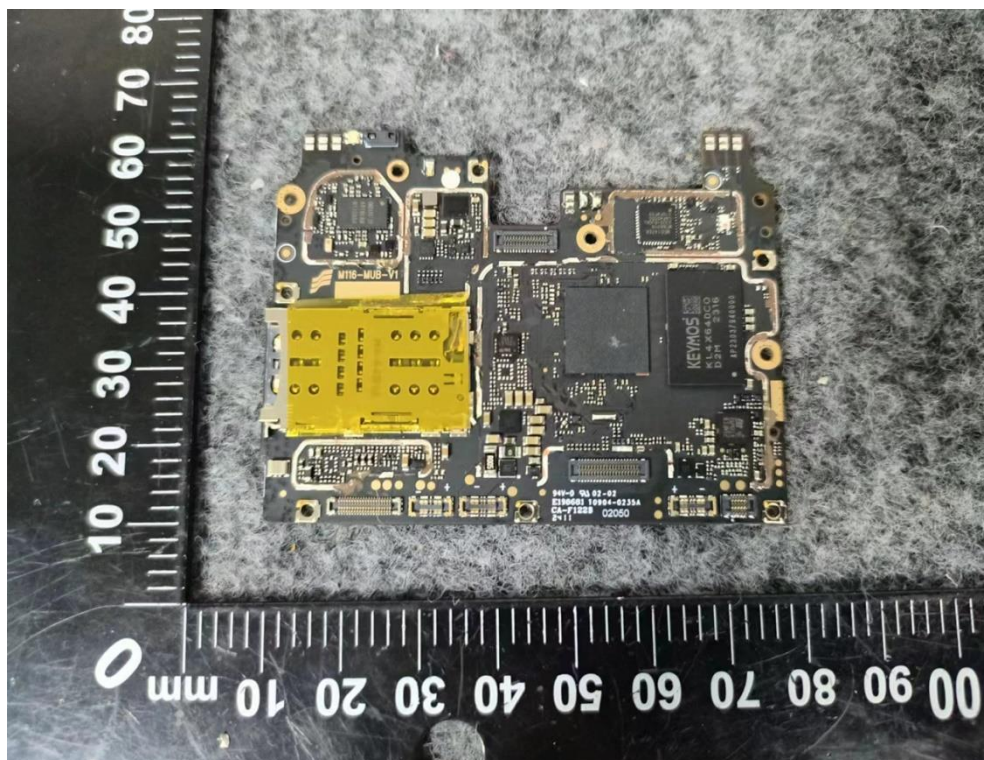
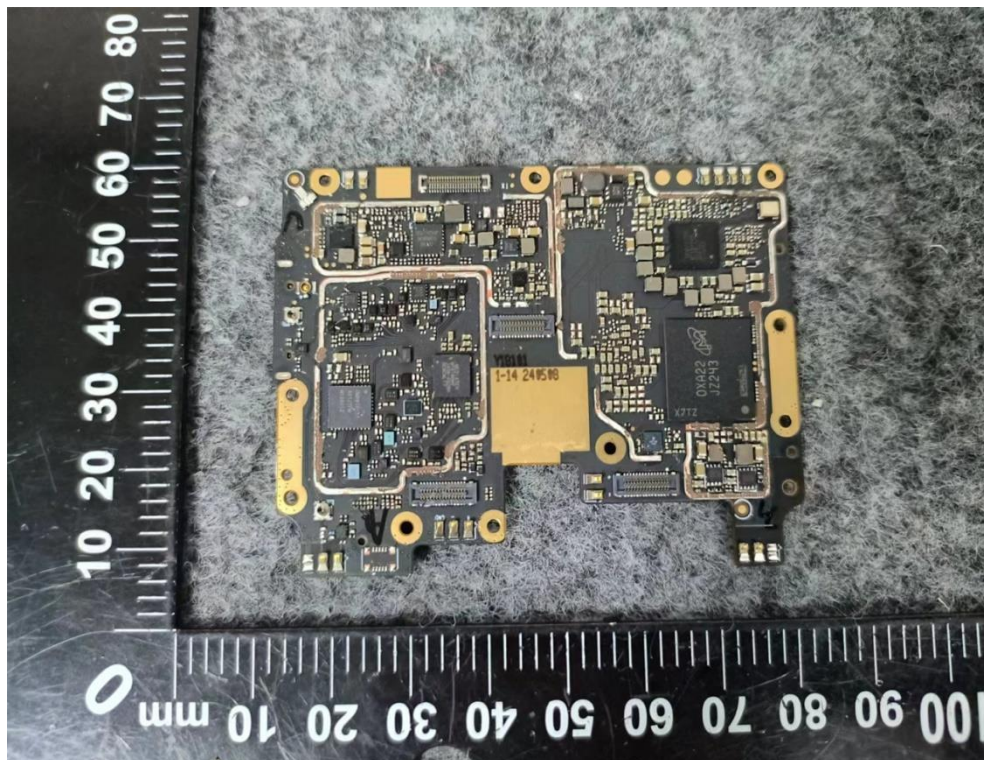






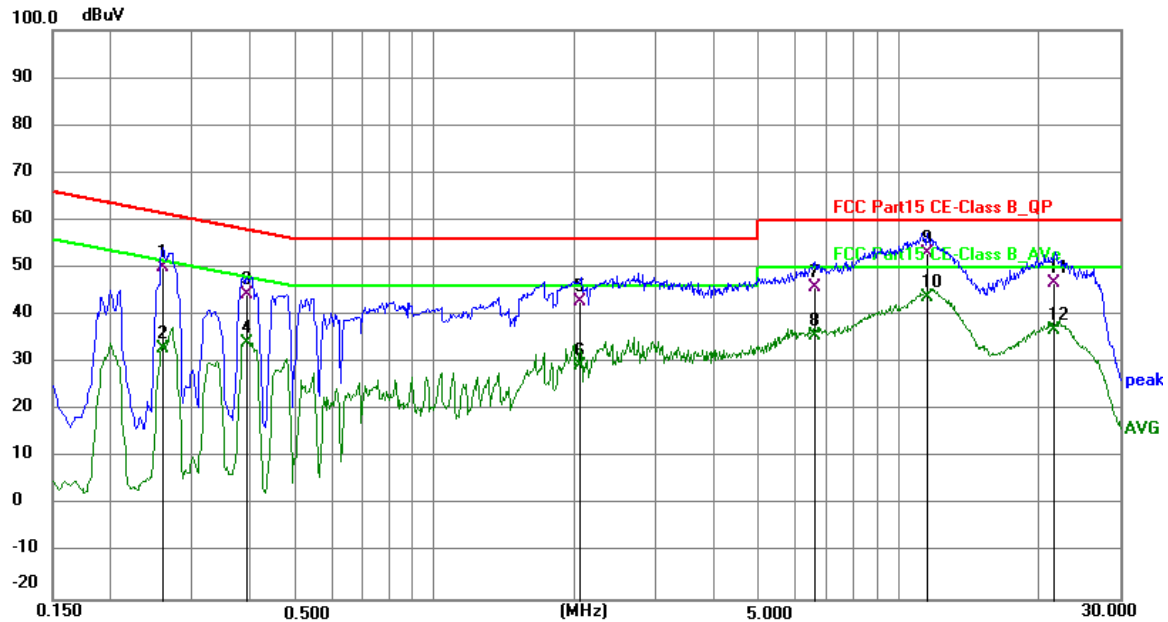






APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS

Test Mode	TX G Mode Channel 01	Phase	Line
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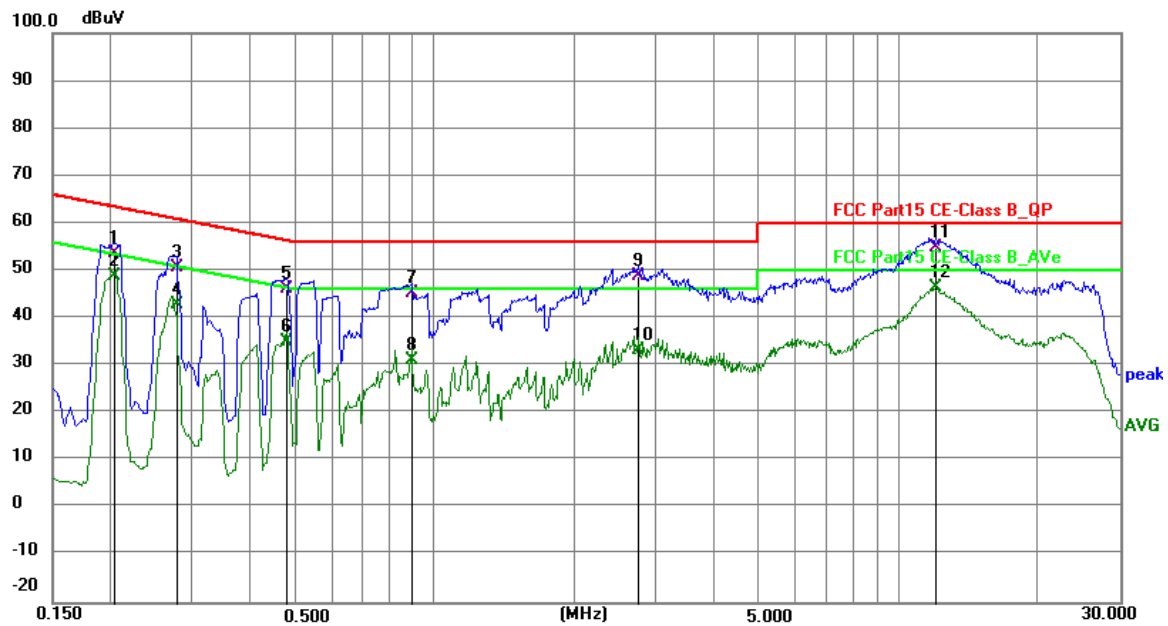


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2581	40.52	9.63	50.15	61.49	-11.34	QP	P	
2	0.2581	23.42	9.63	33.05	51.49	-18.44	AVG	P	
3	0.3951	34.60	9.63	44.23	57.96	-13.73	QP	P	
4	0.3951	24.63	9.63	34.26	47.96	-13.70	AVG	P	
5	2.0654	33.17	9.65	42.82	56.00	-13.18	QP	P	
6	2.0654	19.60	9.65	29.25	46.00	-16.75	AVG	P	
7	6.6121	36.00	9.70	45.70	60.00	-14.30	QP	P	
8	6.6121	25.96	9.70	35.66	50.00	-14.34	AVG	P	
9	11.5060	43.31	9.73	53.04	60.00	-6.96	QP	P	
10 *	11.5060	33.93	9.73	43.66	50.00	-6.34	AVG	P	
11	21.7531	36.90	9.77	46.67	60.00	-13.33	QP	P	
12	21.7531	26.99	9.77	36.76	50.00	-13.24	AVG	P	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode Channel 01	Phase	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2040	43.99	9.63	53.62	63.45	-9.83	QP	P	
2	0.2040	39.12	9.63	48.75	53.45	-4.70	AVG	P	
3	0.2760	41.10	9.62	50.72	60.94	-10.22	QP	P	
4	0.2760	33.29	9.62	42.91	50.94	-8.03	AVG	P	
5	0.4785	36.58	9.62	46.20	56.37	-10.17	QP	P	
6	0.4785	25.50	9.62	35.12	46.37	-11.25	AVG	P	
7	0.8925	35.72	9.64	45.36	56.00	-10.64	QP	P	
8	0.8925	21.62	9.64	31.26	46.00	-14.74	AVG	P	
9	2.7510	39.24	9.65	48.89	56.00	-7.11	QP	P	
10	2.7510	23.55	9.65	33.20	46.00	-12.80	AVG	P	
11	12.0434	45.08	9.74	54.82	60.00	-5.18	QP	P	
12 *	12.0434	36.84	9.74	46.58	50.00	-3.42	AVG	P	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

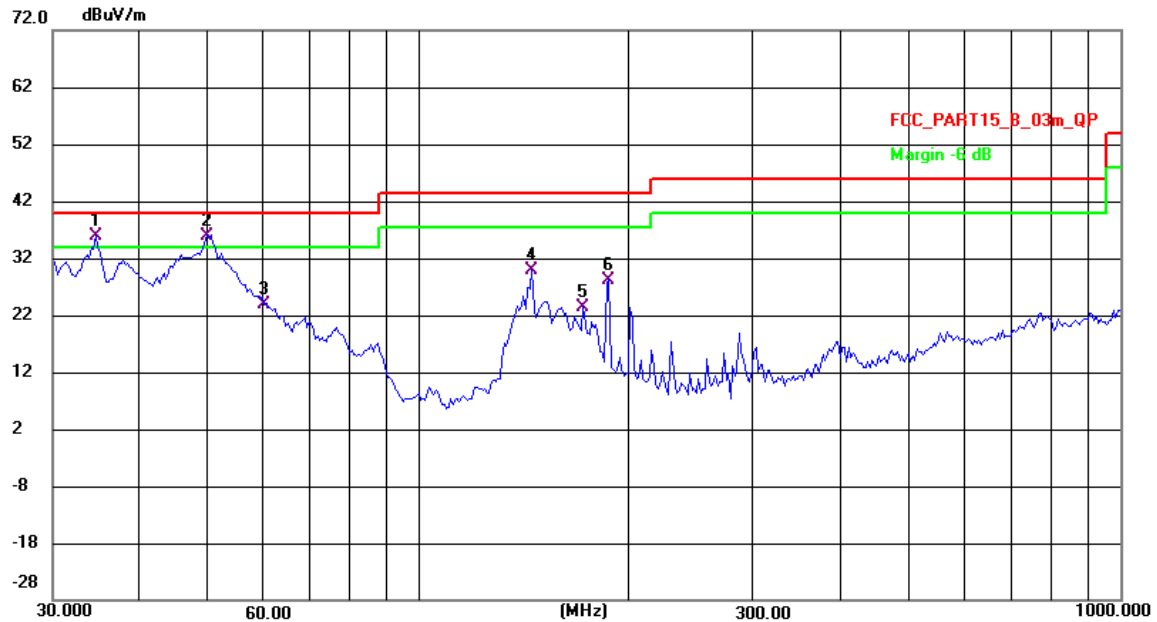
APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ

Test Mode	TX G Mode Channel 01	Polarization	Vertical
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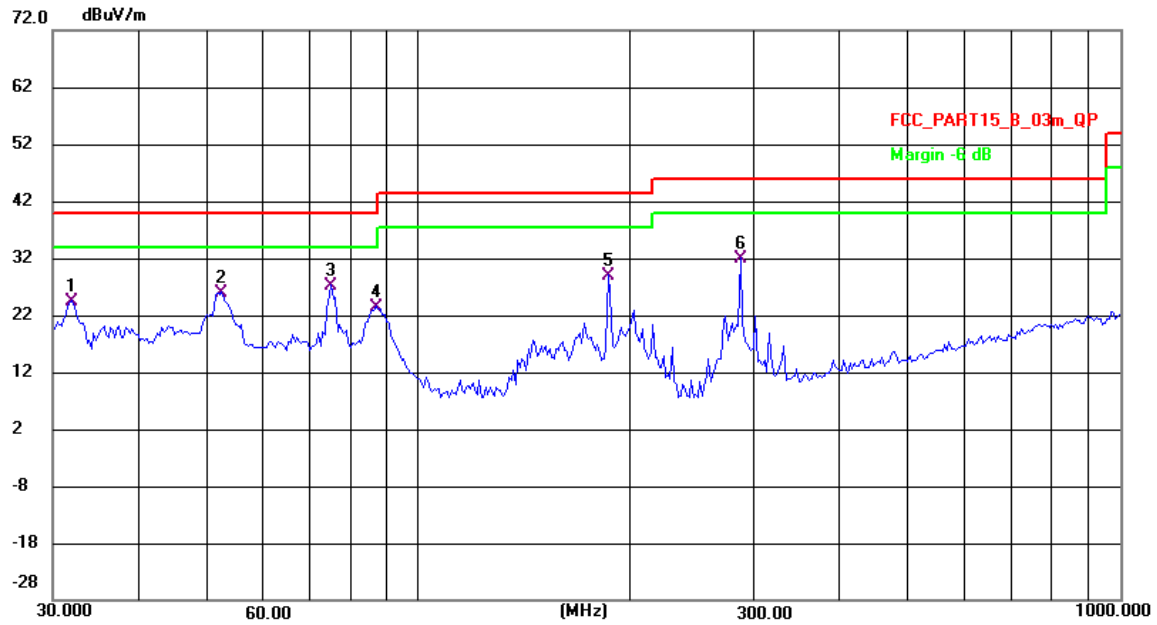


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	34.5270	58.89	-22.98	35.91	40.00	-4.09	QP	200	83	P	
2 !	49.7571	57.85	-22.03	35.82	40.00	-4.18	QP	100	198	P	
3	60.5769	46.49	-22.62	23.87	40.00	-16.13	QP	200	111	P	
4	144.7899	51.08	-21.21	29.87	43.50	-13.63	QP	100	247	P	
5	171.3890	44.63	-21.19	23.44	43.50	-20.06	QP	100	204	P	
6	186.4684	51.61	-23.43	28.18	43.50	-15.32	QP	200	226	P	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	TX G Mode Channel 01	Polarization	Horizontal
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	31.9627	47.55	-23.22	24.33	40.00	-15.67	QP	100	348	P	
2	52.3242	48.16	-22.20	25.96	40.00	-14.04	QP	200	17	P	
3 *	74.9307	52.18	-24.95	27.23	40.00	-12.77	QP	100	35	P	
4	86.8716	49.15	-25.78	23.37	40.00	-16.63	QP	200	10	P	
5	185.8406	52.14	-23.35	28.79	43.50	-14.71	QP	200	250	P	
6	287.5649	54.41	-22.49	31.92	46.00	-14.08	QP	100	146	P	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

APPENDIXD -RADIATED EMISSION- ABOVE 1000MHZ

Test Result of Radiated Spurious at Band edges.

Note: All test plots below include both horizontal and vertical

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					TX B Mode 2412 MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	72.65	-21.47	51.18	74.00	-22.82	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	73.25	-26.12	47.13	74.00	-26.87	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	74.12	-21.47	52.65	74.00	-21.35	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	73.15	-26.12	47.03	74.00	-26.97	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					TX B Mode 2462 MHz			
1	2483.5	H	75.01	-25.29	49.72	74.00	-24.28	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	73.69	-25.29	48.40	74.00	-25.60	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg

Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin.

2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain.

Result=Reading + Correct Factor.

Margin= Result-Limit.

3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					TX G Mode 2412 MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.02	-21.47	52.55	74.00	-21.45	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	73.51	-26.12	47.39	74.00	-26.61	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	73.93	-21.47	52.46	74.00	-21.54	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	73.02	-26.12	46.9	74.00	-27.10	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					TX G Mode 2462 MHz			
1	2483.5	H	78.95	-25.29	53.66	74.00	-20.34	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	78.05	-25.29	52.76	74.00	-21.24	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					TX N(HT20) Mode 2412 MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.25	-21.47	52.78	74.00	-21.22	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	73.21	-26.12	47.09	74.00	-26.91	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	75.01	-21.47	53.54	74.00	-20.46	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	74.54	-26.12	48.42	74.00	-25.58	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					TX N(HT20) Mode 2462 MHz			
1	2483.5	H	78.18	-25.29	52.89	74.00	-21.11	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	77.95	-25.29	52.66	74.00	-21.34	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

Test Results					PASS			
Frequency Range					2310MHz~2410MHz			
Test Mode					TX N(HT40) Mode 2422 MHz			
N o.	Freq MHz	Polarity	Reading (dBuV/m)	Correct Factor	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2390	H	74.95	-21.47	53.48	74.00	-20.52	Peak
2	2390	H	--	-21.47	--	54.00	--	Avg
3	2400	H	73.95	-26.12	47.83	74.00	-26.17	Peak
4	2400	H	--	-26.12	--	54.00	--	Avg
1	2390	V	73.96	-21.47	52.49	74.00	-21.51	Peak
2	2390	V	--	-21.47	--	54.00	--	Avg
3	2400	V	73.03	-26.12	46.91	74.00	-27.09	Peak
4	2400	V	--	-26.12	--	54.00	--	Avg
Test Results					PASS			
Frequency Range					2450MHz~2550MHz			
Test Mode					TX N(HT40) Mode 2452 MHz			
1	2483.5	H	76.94	-25.29	51.65	74.00	-22.35	Peak
2	2483.5	H	--	-25.29	--	54.00	--	Avg
1	2483.5	V	77.02	-25.29	51.73	74.00	-22.27	Peak
2	2483.5	V	--	-25.29	--	54.00	--	Avg
Note: 1. Means other frequency and mode comply with standard requirements and at least have 20dB margin. 2. Correct Factor=Cable Loss+ Antenna Factor-Amplifier Gain. Result=Reading + Correct Factor. Margin= Result-Limit. 3. If the limits for the measurement with the average detector are met when using a receiver with a peak detector, the test unit shall be deemed to meet both limits and the measurement with the average detector need not be carried out.								

ABOVE 1000 MHz

Note: All the modes have been tested and recorded worst mode in the report.

Modulation Type:802.11b

Channel 1 / 2412 MHz

Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4824.00	H	53.31	51.3	-1.88	51.43	49.42	74	54	-22.57
7236.00	H	43.68	---	7.8	51.48	---	74	54	-22.52
---	H	---	---	---	---	---	---	---	---
4824.00	V	55.14	---	-1.88	53.26	---	74	54	-20.74
7236.00	V	42.31	---	7.8	50.11	---	74	54	-23.89
---	V	---	---	---	---	---	---	---	---

Channel 6 / 2437 MHz

Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4874.00	H	54.36	---	-1.59	52.77	---	74	54	-21.23
7311.00	H	42.15	---	8.1	50.25	---	74	54	-23.75
---	H	---	---	---	---	---	---	---	---
4874.00	V	55.03	---	-1.59	53.44	---	74	54	-20.56
7311.00	V	42.64	---	8.1	50.74	---	74	54	-23.26
---	V	---	---	---	---	---	---	---	---

Channel 11 / 2462 MHz

Frequency	Ant.Pol. H/V	Peak reading (dBuV)	AV reading (dBuV)	Correction Factor	Emission Level		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4924.00	H	55.01	---	-1.3	53.71	---	74	54	-20.29
7386.00	H	41.28	---	9	50.28	---	74	54	-23.72
---	H	---	---	---	---	---	---	---	---
4924.00	V	54.99	---	-1.3	53.69	---	74	54	-20.31
7386.00	V	43.31	---	9	52.31	---	74	54	-21.69
---	V	---	---	---	---	---	---	---	---

Notes:

- 1). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 2). Data of measurement within this frequency range shown "—" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3). Worst case data at 1Mbps at IEEE 802.11b.
- 4). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit

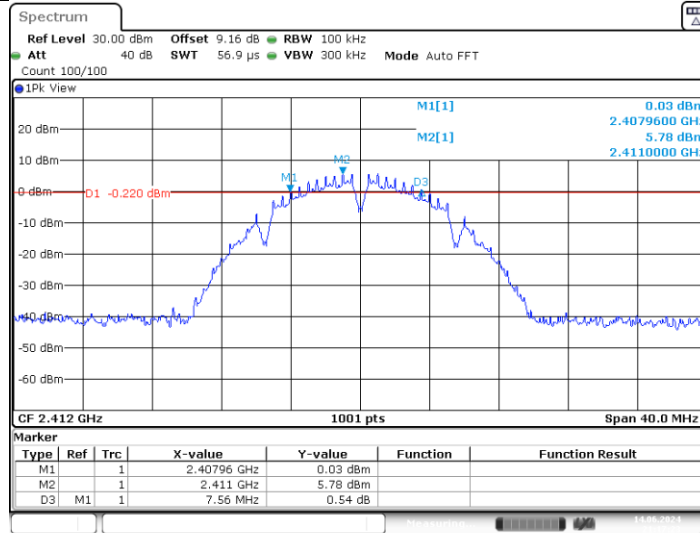
APPENDIXE - BANDWIDTH

1. DTS Bandwidth

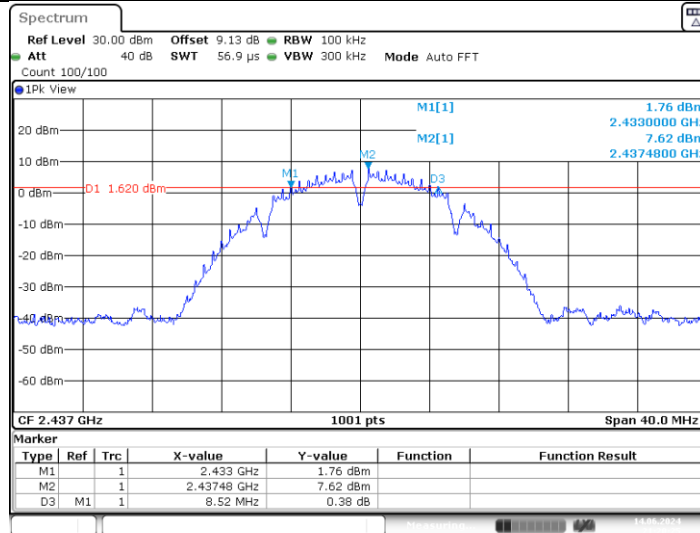
TestMode	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	7.56	2407.96	2415.52	0.5	PASS
	2437	8.52	2433.00	2441.52	0.5	PASS
	2462	9.04	2457.48	2466.52	0.5	PASS
11G	2412	15.72	2403.84	2419.56	0.5	PASS
	2437	15.12	2429.44	2444.56	0.5	PASS
	2462	16.32	2453.84	2470.16	0.5	PASS
11N20SISO	2412	16.32	2403.24	2419.56	0.5	PASS
	2437	14.84	2430.68	2445.52	0.5	PASS
	2462	17.60	2453.20	2470.80	0.5	PASS
11N40SISO	2422	29.76	2409.76	2439.52	0.5	PASS
	2437	35.12	2419.40	2454.52	0.5	PASS
	2452	32.56	2436.96	2469.52	0.5	PASS

Test Graphs

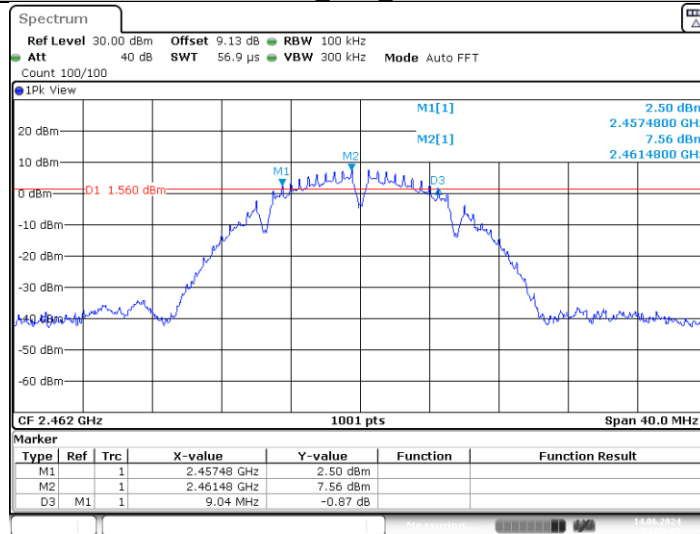
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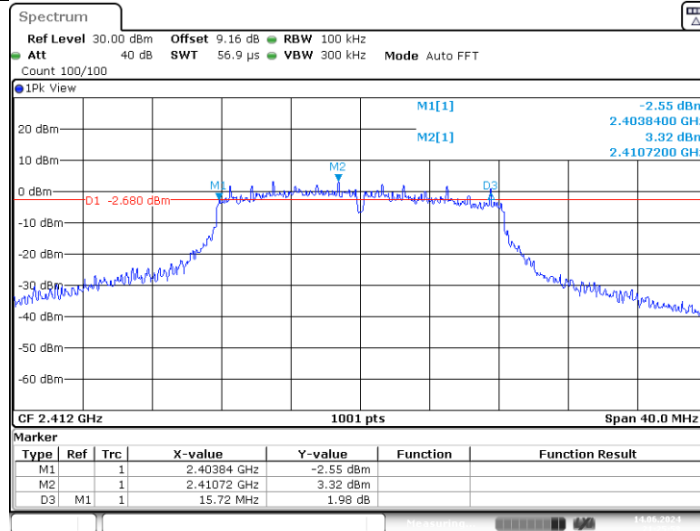
11B_Ant1_2437



11B_Ant1_2462

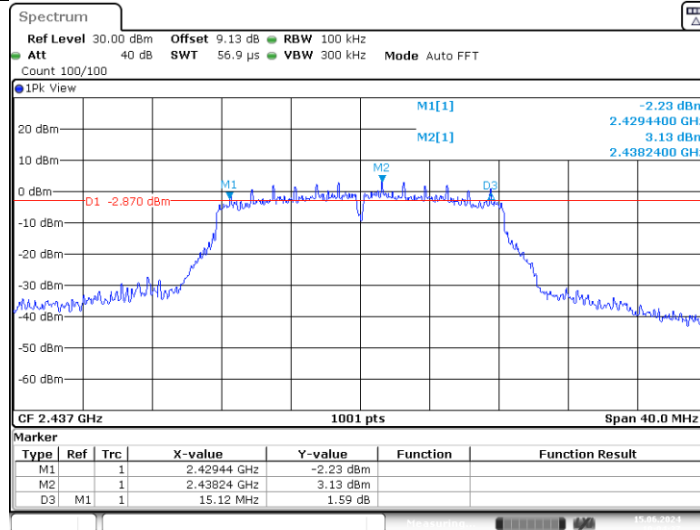


11G_Ant1_2412



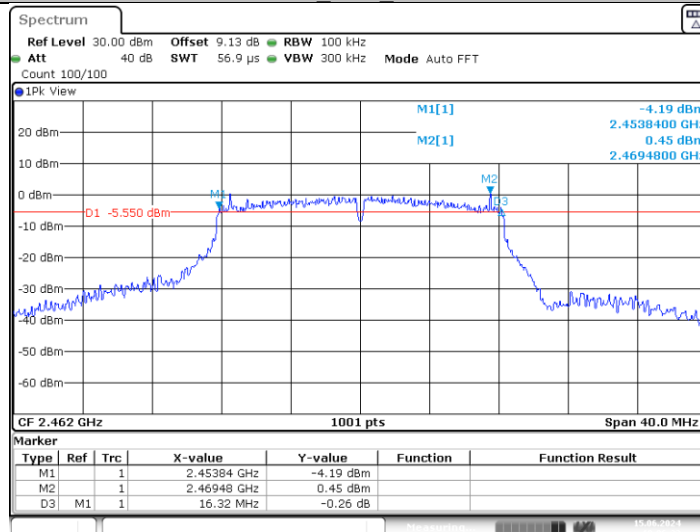
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11G_Ant1_2437



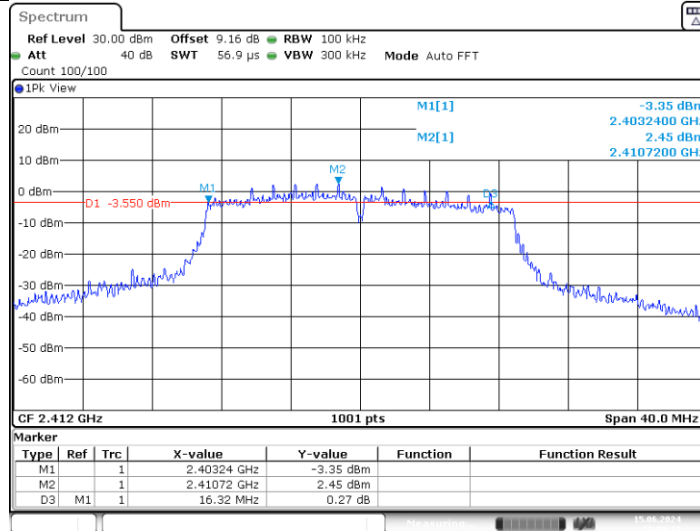
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11G_Ant1_2462



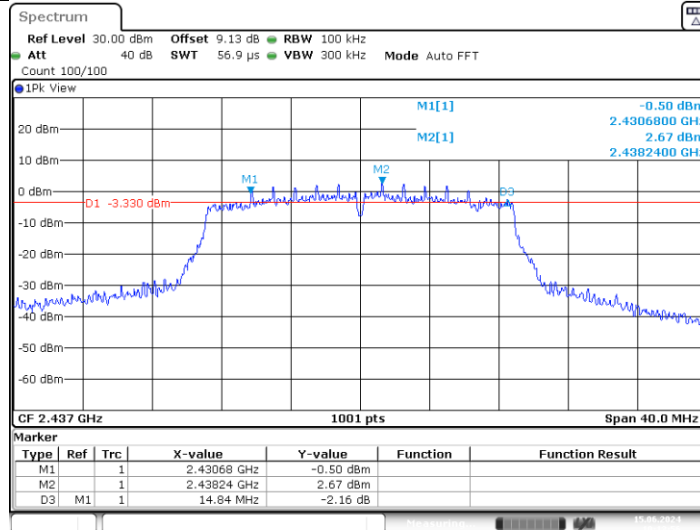
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11N20SISO_Ant1_2412



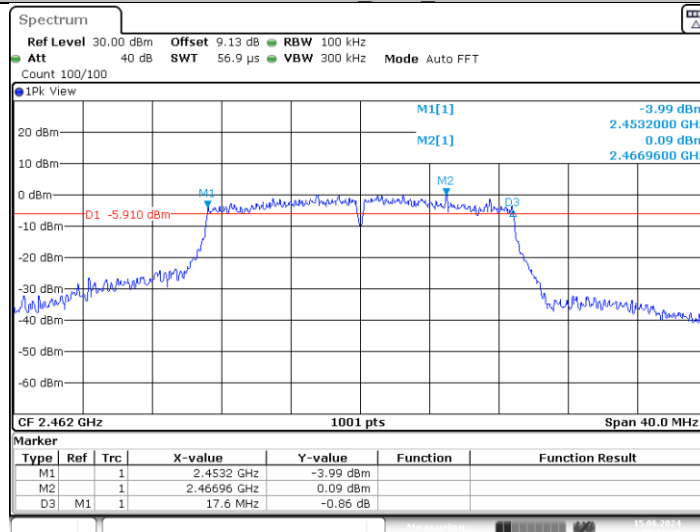
Date: 15.JUN.2024 10:09:19

11N20SISO_Ant1_2437



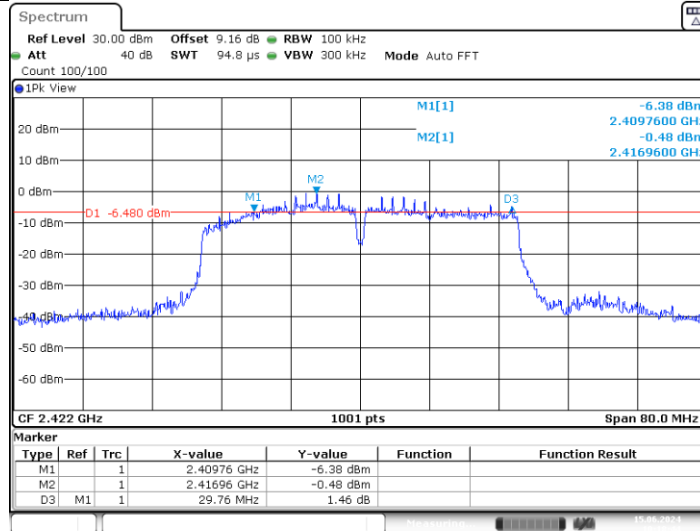
Date: 15.JUN.2024 10:13:56

11N20SISO_Ant1_2462



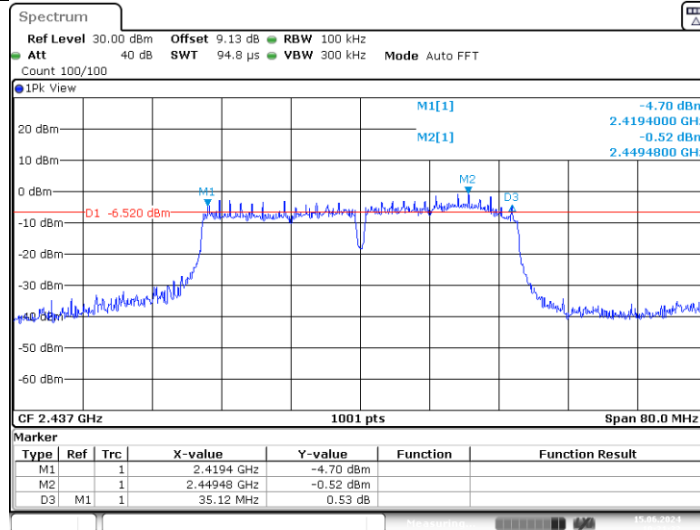
Date: 15.JUN.2024 10:15:38

11N40SISO_Ant1_2422



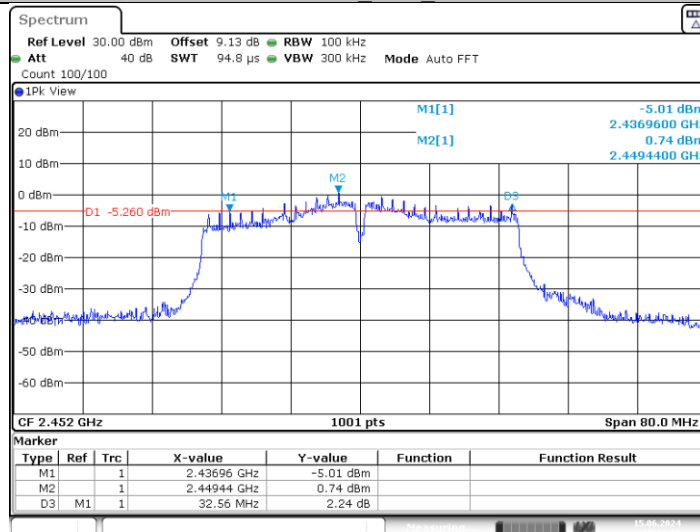
Date: 15.JUN.2024 10:18:45

11N40SISO_Ant1_2437



Date: 15.JUN.2024 10:21:33

11N40SISO_Ant1_2452



Date: 15.JUN.2024 10:23:11

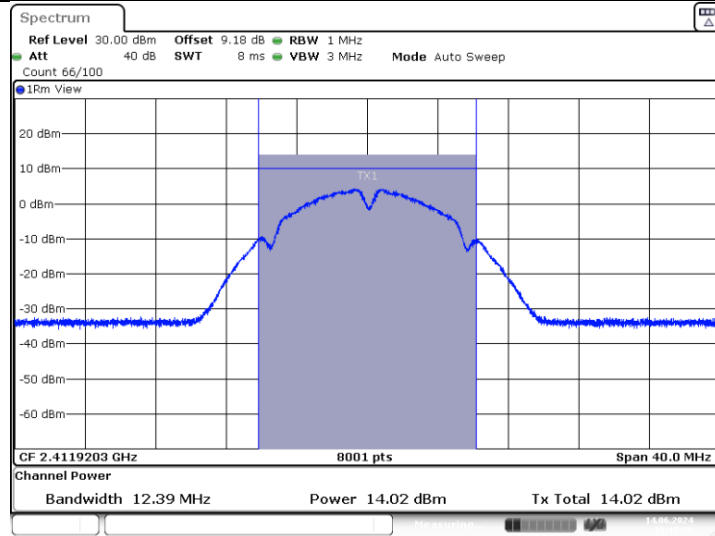
APPENDIX F - MAXIMUM OUTPUT POWER

Test Mode	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	2412	14.00	99.64	0.02	14.02	≤30.00	PASS
	2437	16.92	99.64	0.02	16.94	≤30.00	PASS
	2462	16.75	100.00	0.00	16.75	≤30.00	PASS
11G	2412	9.43	97.20	0.12	9.55	≤30.00	PASS
	2437	13.36	97.90	0.09	13.45	≤30.00	PASS
	2462	13.08	97.20	0.12	13.20	≤30.00	PASS
11N20SISO	2412	10.25	97.01	0.13	10.38	≤30.00	PASS
	2437	13.41	97.01	0.13	13.54	≤30.00	PASS
	2462	13.06	96.99	0.13	13.19	≤30.00	PASS
11N40SISO	2422	12.23	95.59	0.20	12.43	≤30.00	PASS
	2437	12.40	94.20	0.26	12.66	≤30.00	PASS
	2452	9.41	94.20	0.26	9.67	≤30.00	PASS

DC Factor = $10 \cdot \log(1 / \text{Duty Cycle})$

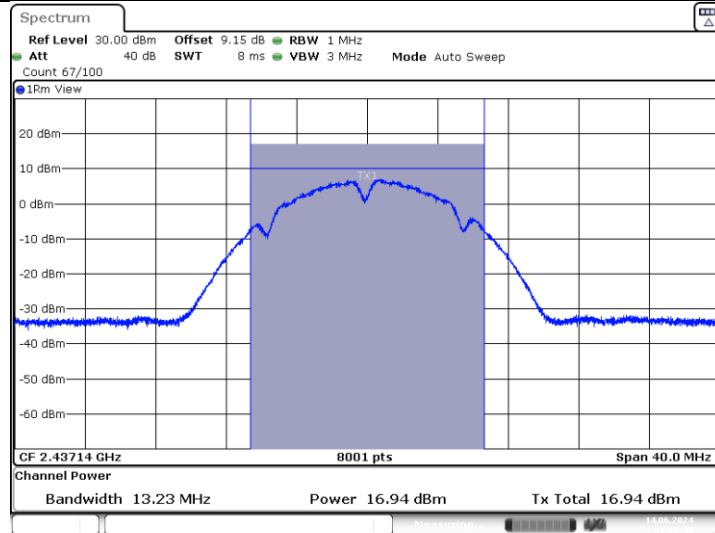
TEST GRAPHS AVERAGE

11B_Ant1_2412



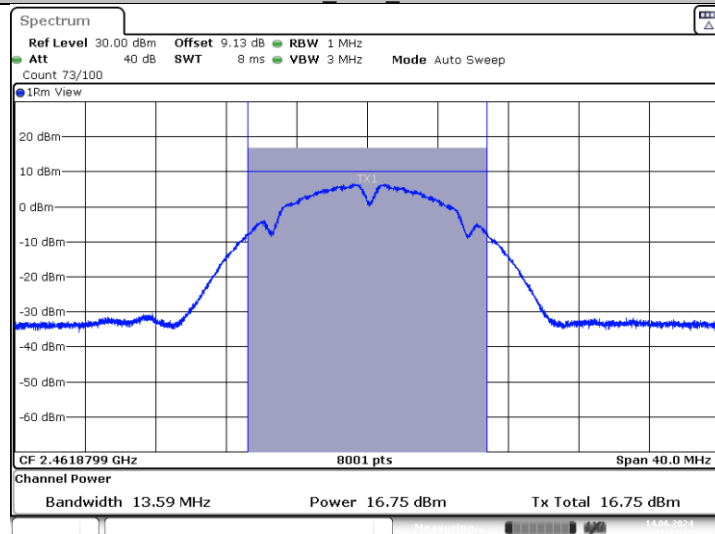
Date: 14.JUN.2024 21:17:38

11B_Ant1_2437



Date: 14.JUN.2024 21:20:40

11B_Ant1_2462



Date: 14.JUN.2024 21:23:17

