

Appendix for WCDMA Band II

Model: LGE-NX9

BTL-FCCP-2-2203G019

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1. APPENDIX A - EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER**1.1 TEST RESULTS**

Effective (Isotropic) Radiated Power of Transmitter							
Test Band	Test Mode	Test Channel	Conducted Power [dBm]	Gain [dBi]	EIRP [dBm]	Limit [dBm]	Verdict
2	TM1	LCH	24.27	-3.2	21.07	33	PASS
		MCH	24.48	-3.2	21.28	33	PASS
		HCH	24.50	-3.2	21.30	33	PASS

2. APPENDIX B - PEAK-TO-AVERAGE RATIO

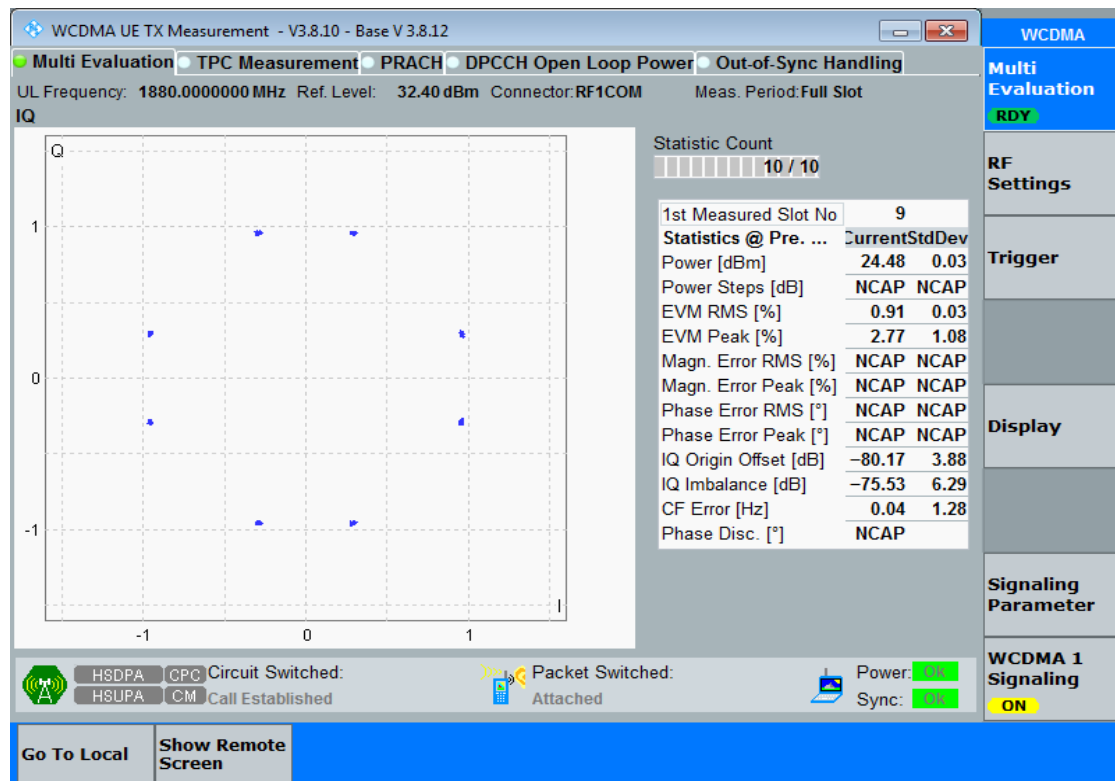
2.1 TEST RESULTS

Peak-to-Average Ratio					
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dBm]	Verdict
2	TM1	LCH	2.75	13	PASS
		MCH	2.66	13	PASS
		HCH	2.62	13	PASS

3. APPENDIX C - MODULATION CHARACTERISTICS

3.1 TEST PLOTS

3.1.1 BAND 2_TM1_MCH



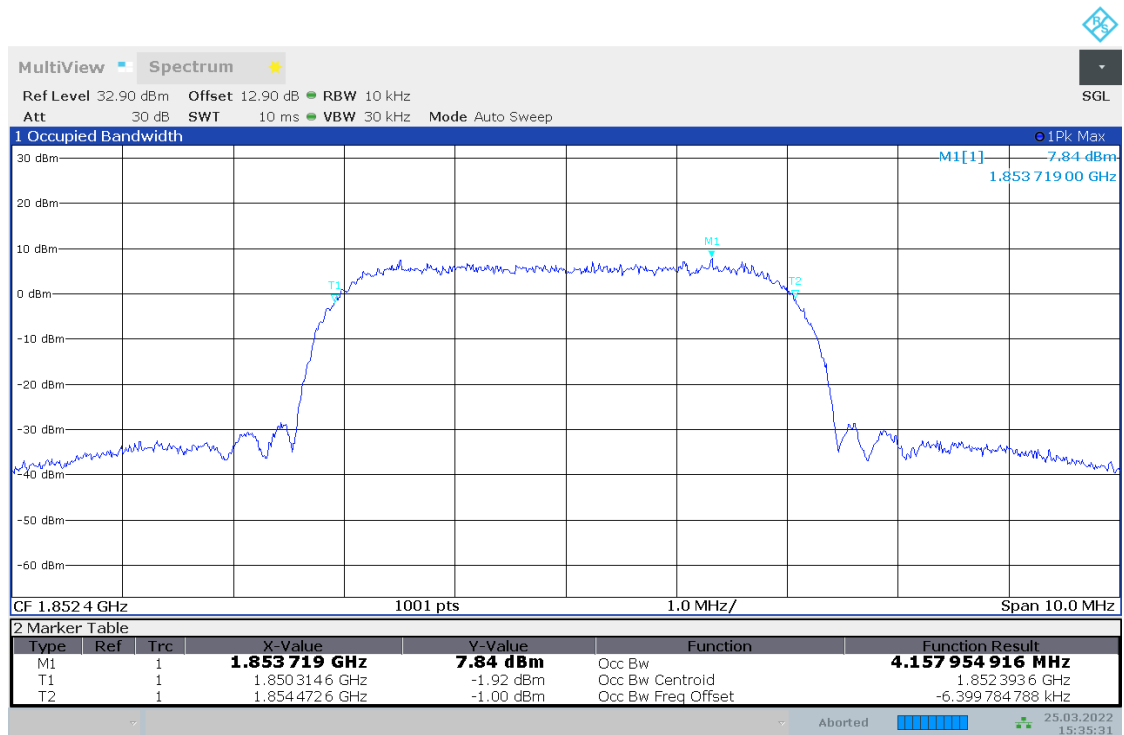
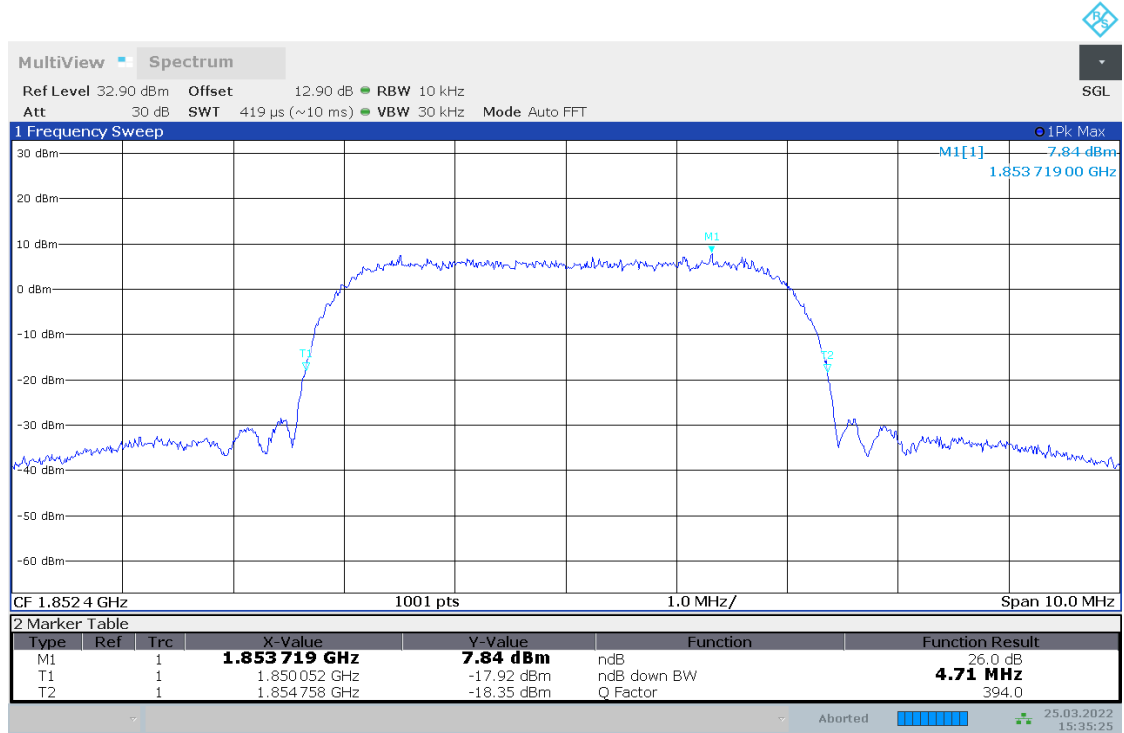
4. APPENDIX D - OCCUPIED BANDWIDTH

4.1 TEST RESULTS

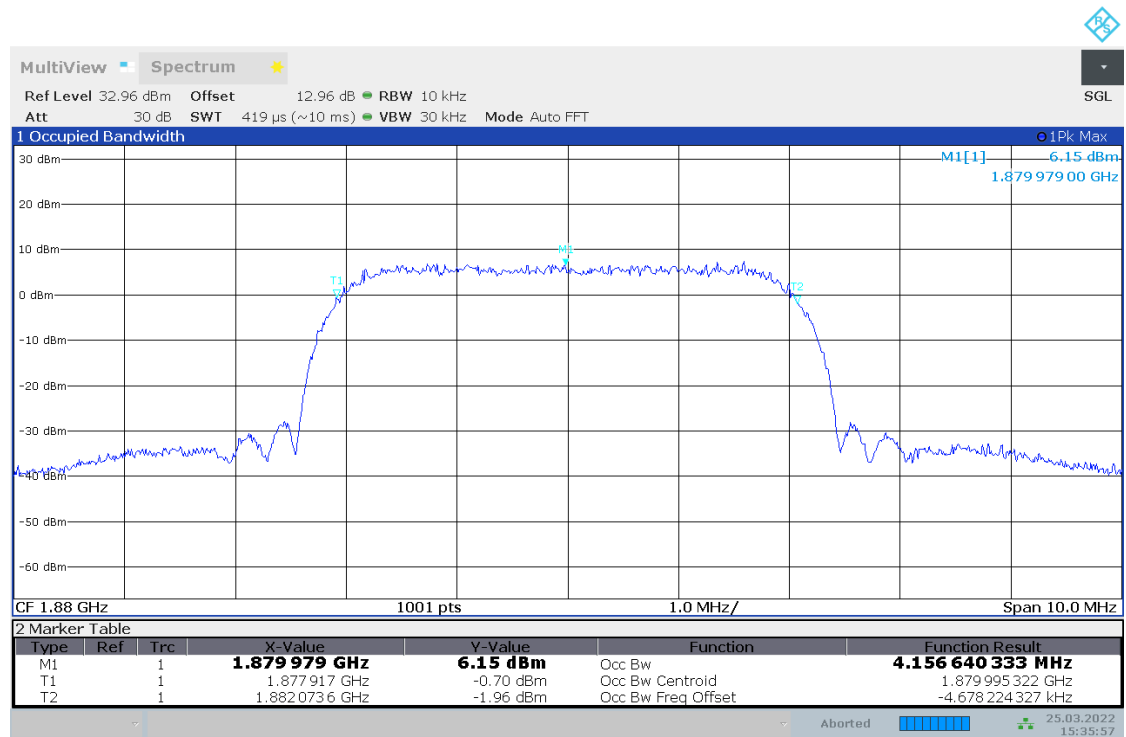
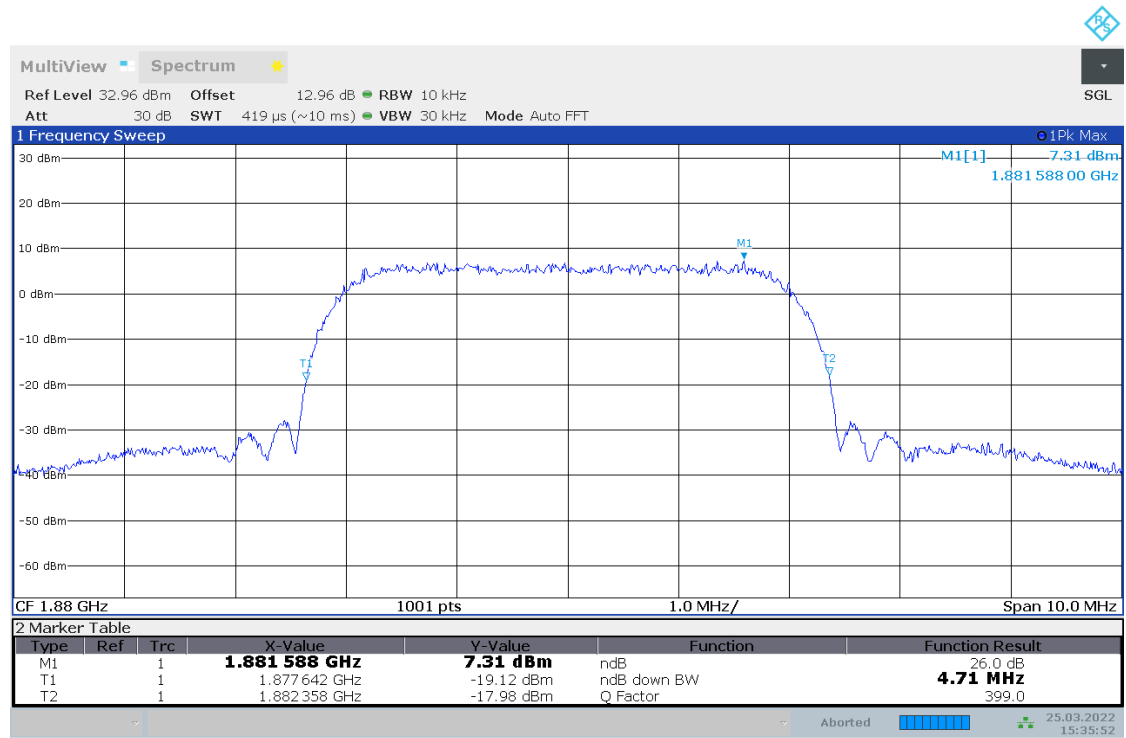
Occupied Bandwidth					
Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [KHz]	Verdict
2	TM1	LCH	4.16	4.71	PASS
		MCH	4.16	4.71	PASS
		HCH	4.16	4.71	PASS

4.2 TEST PLOTS

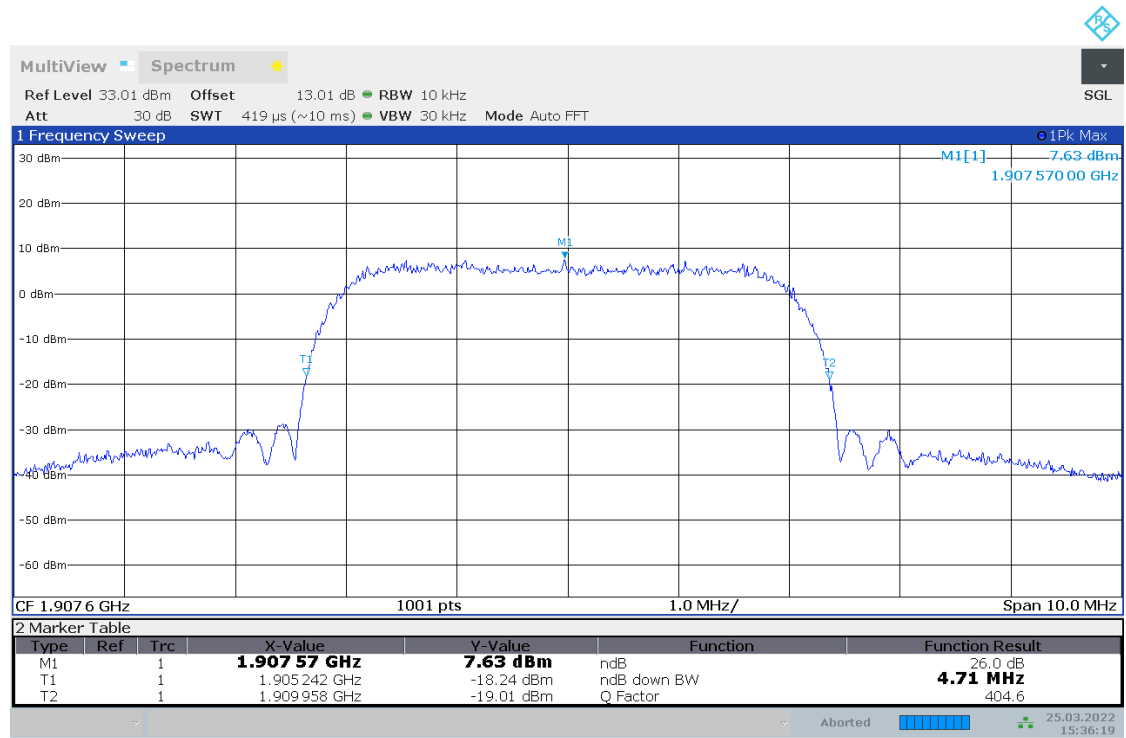
4.2.1 BAND 2_TM1_LCH



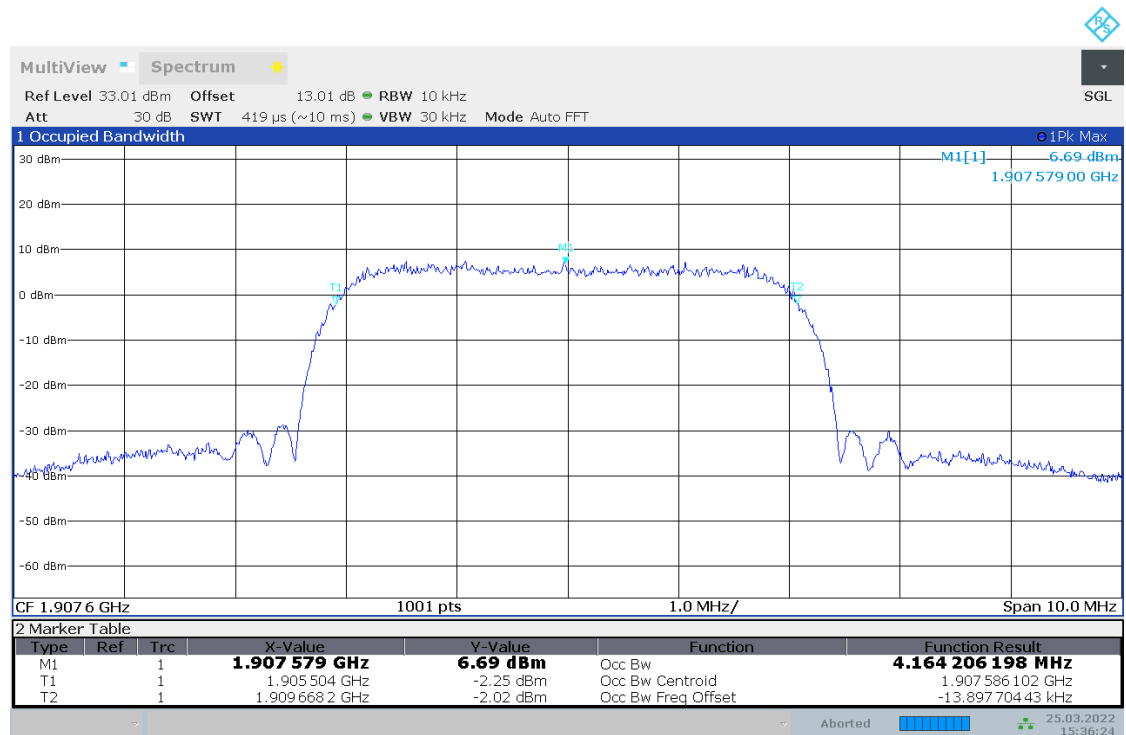
4.2.2 BAND 2_TM1_MCH



4.2.3 BAND 2_TM1_HCH



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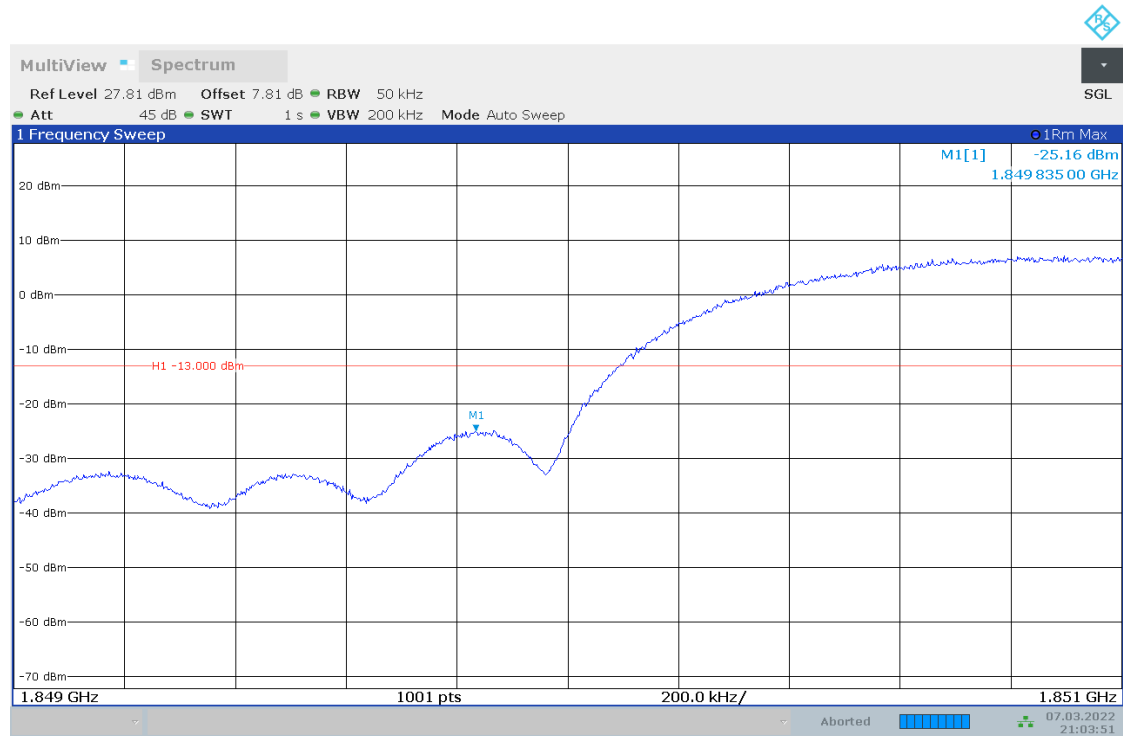
15:36:24 25.03.2022

5. APPENDIX E - BAND EDGES COMPLIANCE**5.1 TEST RESULTS**

Band Edges Compliance						
Test Band	Test Mode	Test Channel	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
2	TM1	LCH	1849.8	-25.16	-13	PASS
		HCH	1910	-24.96	-13	PASS

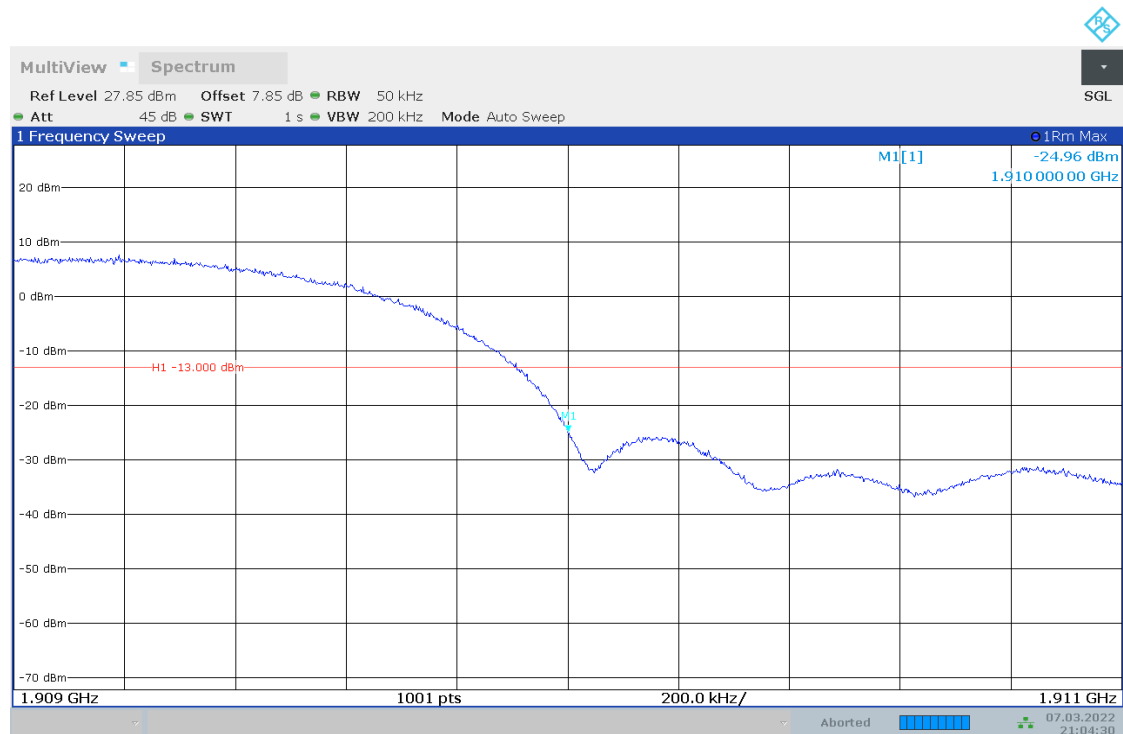
5.2 TEST PLOTS

5.2.1 BAND 2_TM1_LCH



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5.2.2 BAND 2_TM1_HCH



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6. APPENDIX F - SPURIOUS EMISSION AT ANTENNA TERMINAL

6.1 TEST RESULTS

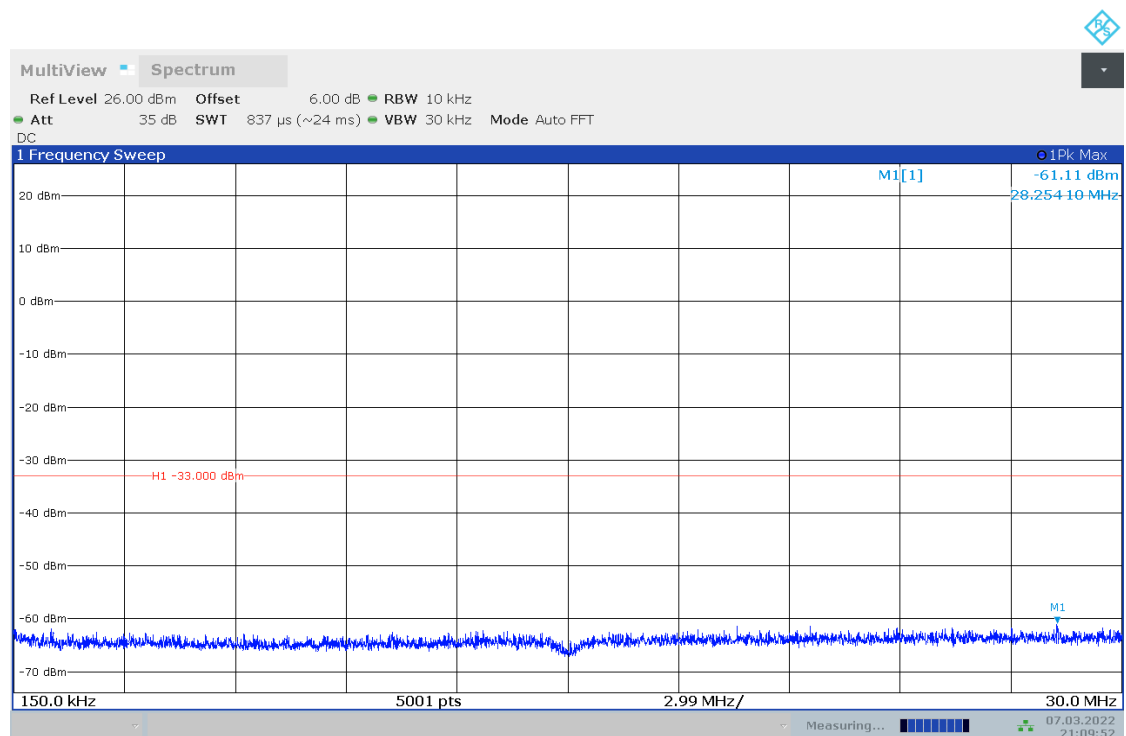
Spurious Emission at Antenna Terminal								
Test Band	Test Mode	Test Channel	Start Freq. [MHz]	Stop Freq. [MHz]	Measured Freq. [MHz]	Measured Power [dBm]	Limit [dBm]	Verdict
2	TM1	LCH	0.009	0.15	0.01	-81.61	-43	PASS
			0.15	30	28.25	-61.11	-33	PASS
			30	20000	18966.33	-33.37	-13	PASS
		MCH	0.009	0.15	0.01	-82.34	-43	PASS
			0.15	30	22.61	-61.61	-33	PASS
			30	20000	18736.68	-34.20	-13	PASS
		HCH	0.009	0.15	0.01	-82.47	-43	PASS
			0.15	30	21.23	-61.33	-33	PASS
			30	20000	18034.25	-34.73	-13	PASS

6.2 TEST PLOTS

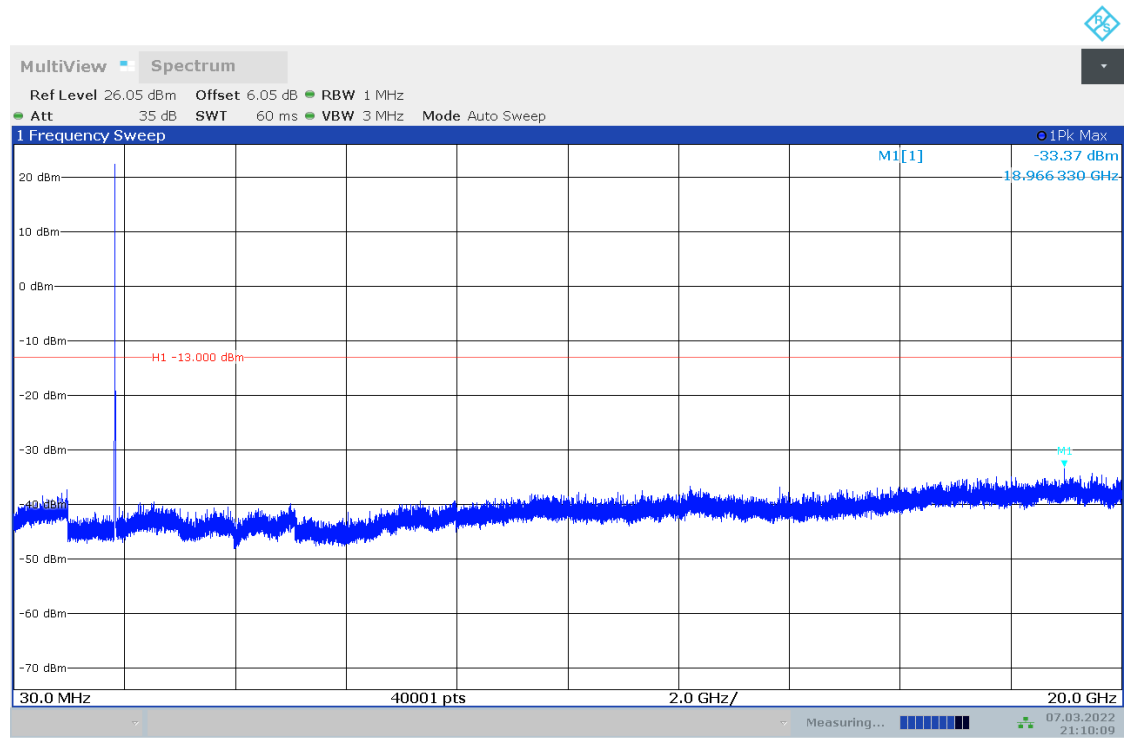
6.2.1 BAND 2_TM1_LCH



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21:09:53 07.03.2022

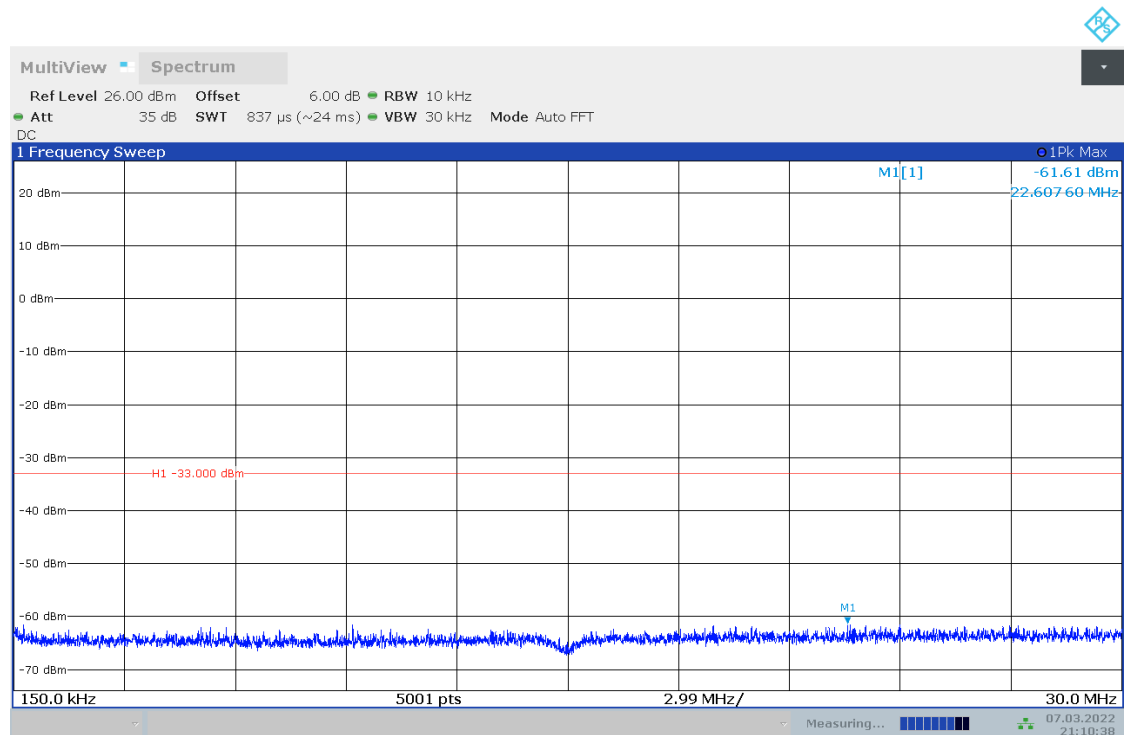


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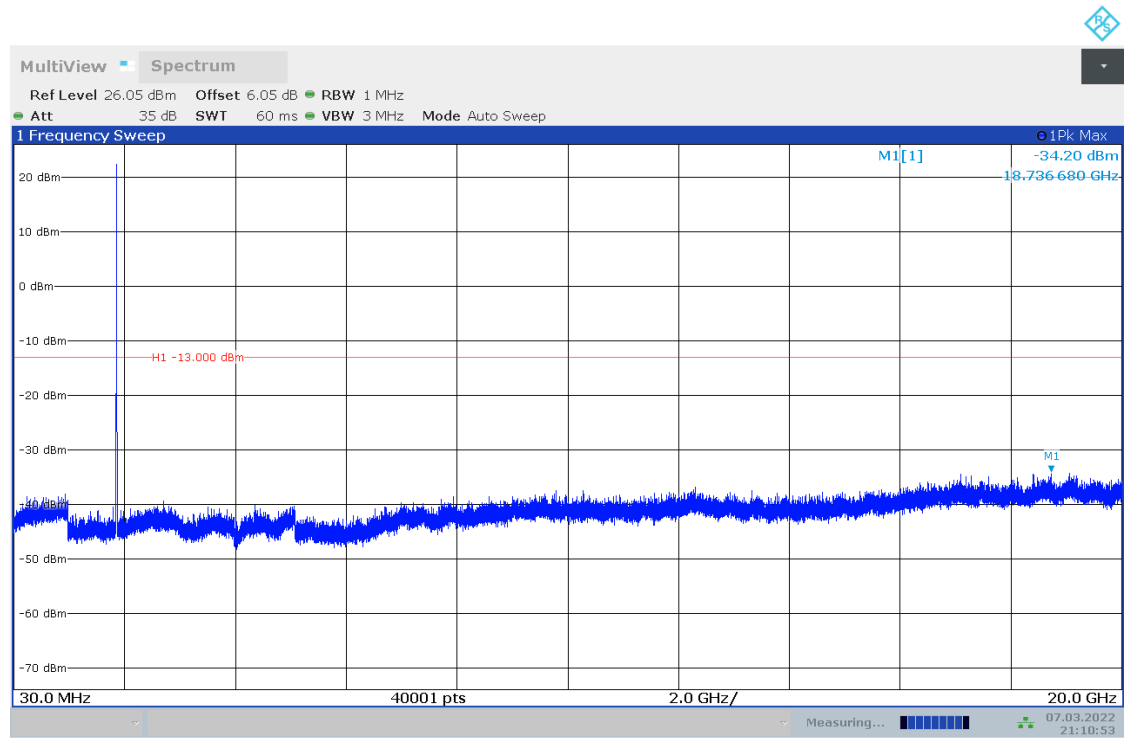
6.2.2 BAND 2_TM1_MCH



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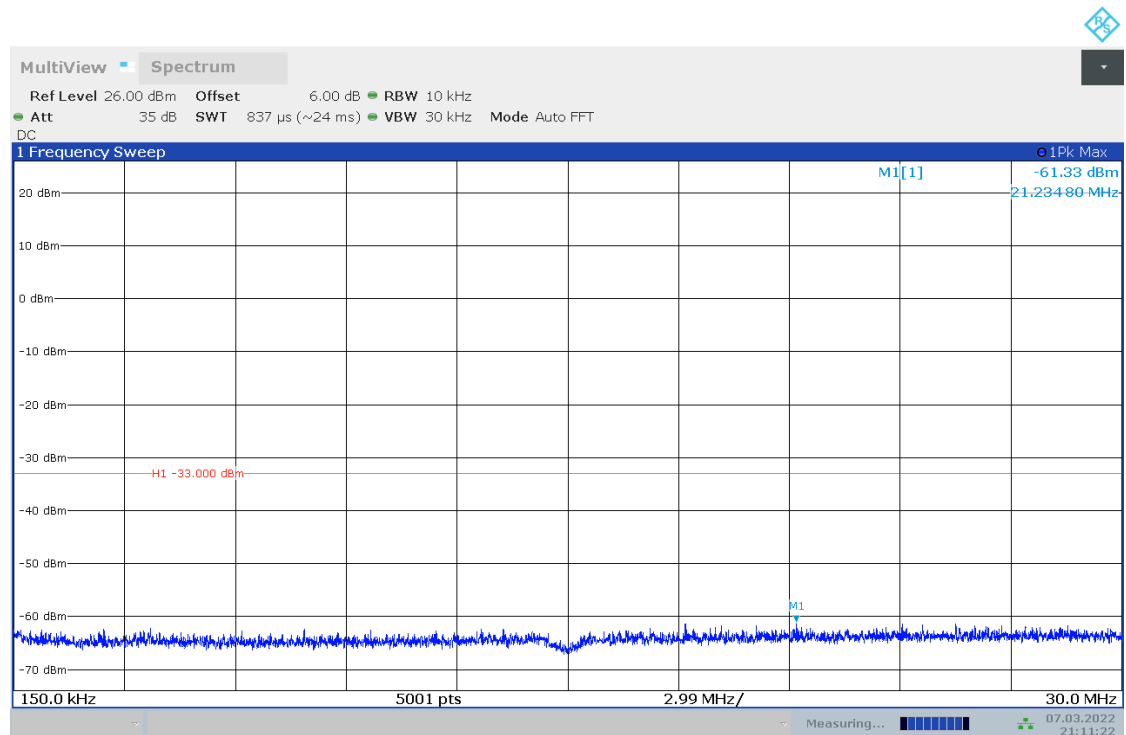


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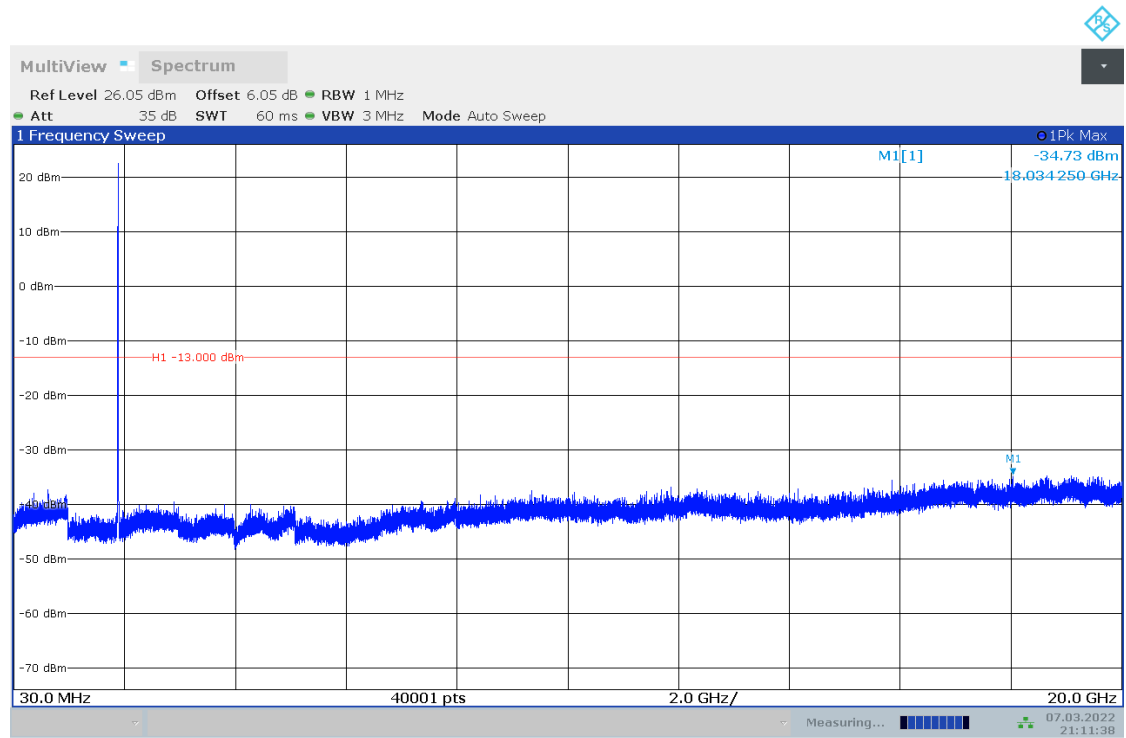
6.2.3 BAND 2_TM1_HCH



21:11:10 07.03.2022



21:11:23 07.03.2022



21:11:39 07.03.2022

7. APPENDIX G - FREQUENCY STABILITY

7.1 TEST RESULTS

7.1.1 FREQUENCY ERROR VS. VOLTAGE

Frequency Error vs. Voltage							
Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
2	UMTS/TM1	LCH	TN	VH	4.79	0	PASS
			TN	VN	4.29	0	PASS
			TN	VL	3.45	0	PASS
		MCH	TN	VH	0.76	0	PASS
			TN	VN	0.96	0	PASS
			TN	VL	0.44	0	PASS
		HCH	TN	VH	-1.54	0	PASS
			TN	VN	-1.67	0	PASS
			TN	VL	-2.37	0	PASS

7.1.2 FREQUENCY ERROR VS. TEMPERATURE

Frequency Error vs. Temperature							
Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
2	UMTS/TM1	LCH	VN	-30	7.22	0	PASS
			VN	-20	6.30	0	PASS
			VN	-10	6.06	0	PASS
			VN	0	5.58	0	PASS
			VN	10	5.56	0	PASS
			VN	20	5.63	0	PASS
			VN	30	6.39	0	PASS
			VN	40	5.73	0	PASS
			VN	50	6.94	0	PASS
		MCH	VN	-30	2.11	0	PASS
			VN	-20	2.18	0	PASS
			VN	-10	2.22	0	PASS
			VN	0	1.86	0	PASS
			VN	10	2.28	0	PASS
			VN	20	2.11	0	PASS
			VN	30	2.15	0	PASS
			VN	40	1.93	0	PASS
			VN	50	2.09	0	PASS
		HCH	VN	-30	-2.44	0	PASS
			VN	-20	-2.84	0	PASS
			VN	-10	-3.20	0	PASS
			VN	0	-2.66	0	PASS
			VN	10	-2.44	0	PASS
			VN	20	-2.46	0	PASS
			VN	30	-2.39	0	PASS
			VN	40	-1.44	0	PASS
			VN	50	-1.86	0	PASS

End of Test Report