

# Appendix for WCDMA Band V

Model: LGE-NX9

**BTL-FCCP-1-2203G019**

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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]	ERP [dBm]	Limit [dBm]	Verdict
5	TM1	LCH	25.43	-6.0	17.28	38.45	PASS
		MCH	25.30	-6.0	17.15	38.45	PASS
		HCH	25.47	-6.0	17.32	38.45	PASS

## 2. APPENDIX B - PEAK-TO-AVERAGE RATIO

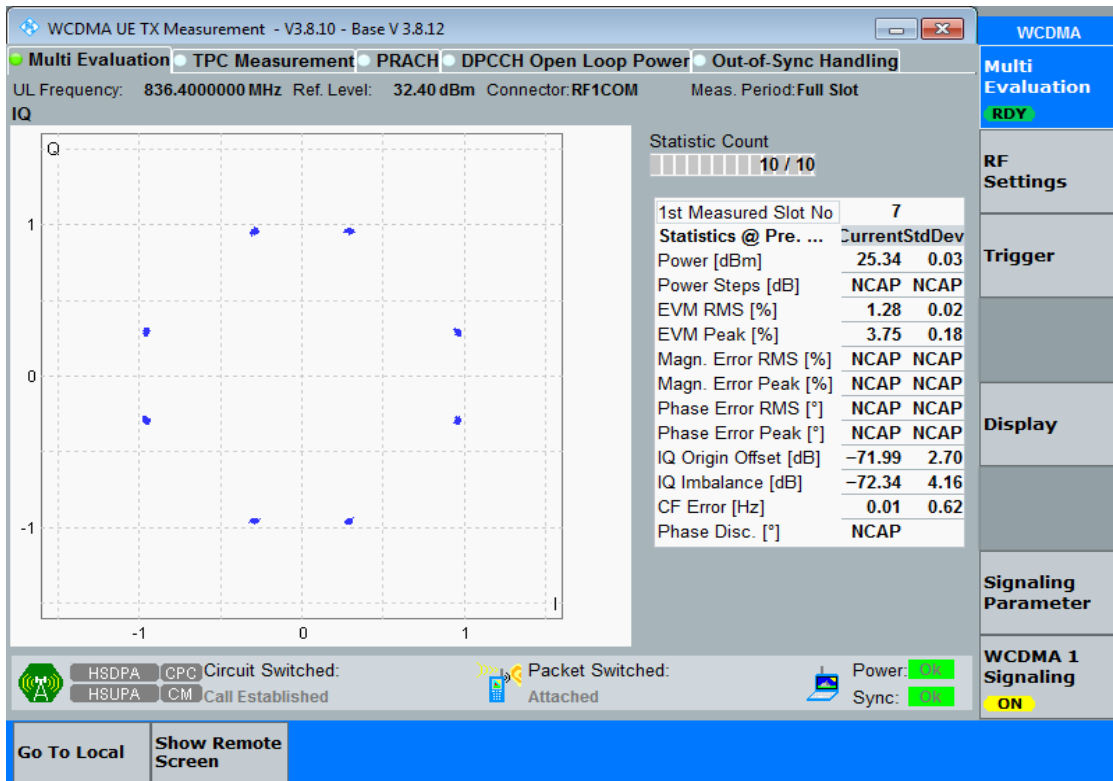
### 2.1 TEST RESULTS

Peak-to-Average Ratio					
Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dBm]	Verdict
5	TM1	LCH	3.04	13	PASS
		MCH	2.64	13	PASS
		HCH	2.99	13	PASS

### 3. APPENDIX C - MODULATION CHARACTERISTICS

#### 3.1 TEST PLOTS

##### 3.1.1 BAND 5\_TM1\_MCH



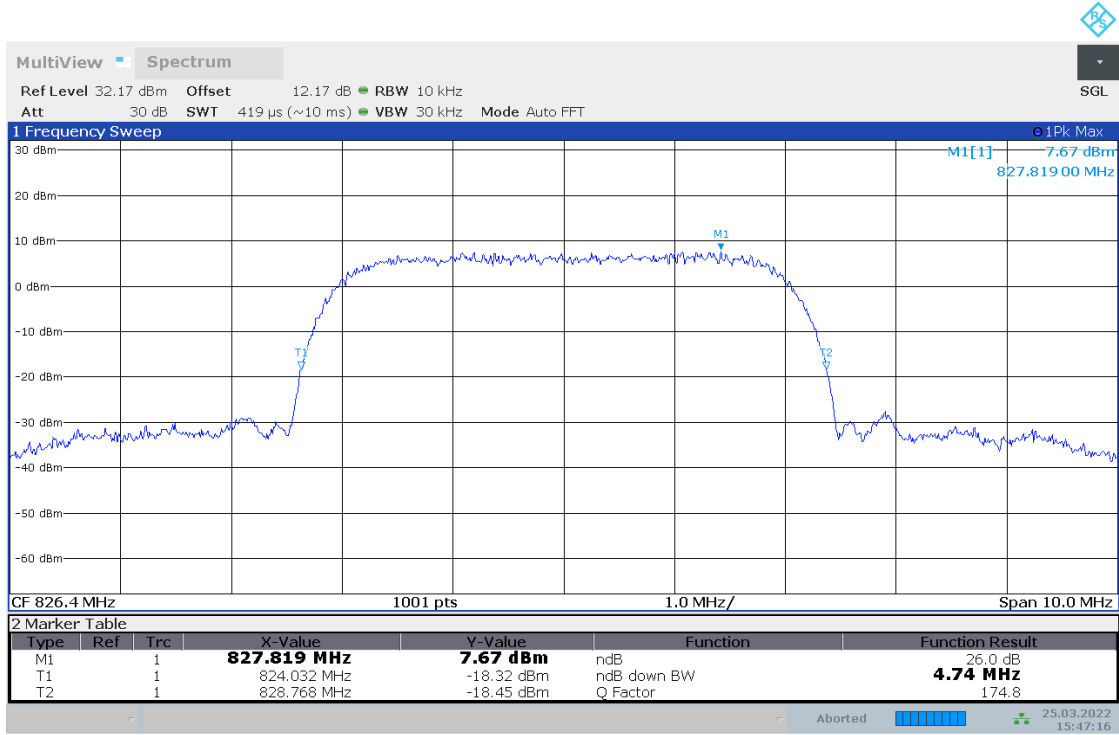
#### 4. APPENDIX D - OCCUPIED BANDWIDTH

##### 4.1 TEST RESULTS

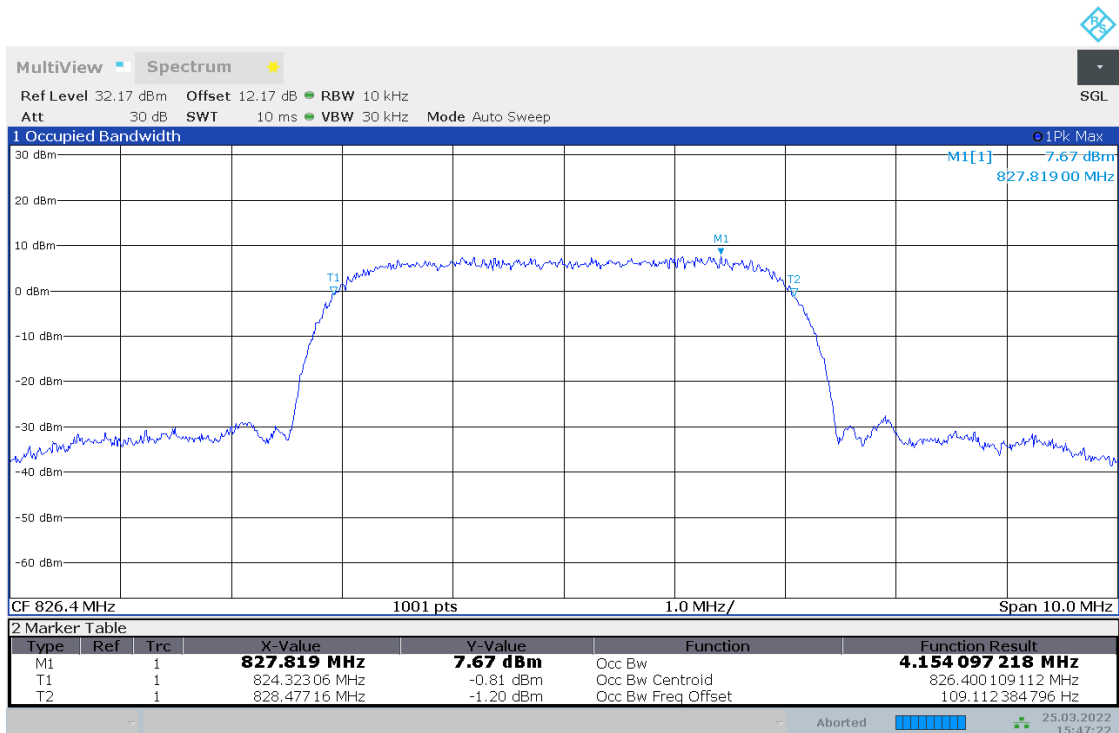
Occupied Bandwidth					
Test Band	Test Mode	Test Channel	Occupied Bandwidth [kHz]	Emission Bandwidth [KHz]	Verdict
5	TM1	LCH	4.15	4.74	PASS
		MCH	4.15	4.71	PASS
		HCH	4.15	4.71	PASS

## 4.2 TEST PLOTS

### 4.2.1 BAND 5\_TM1\_LCH

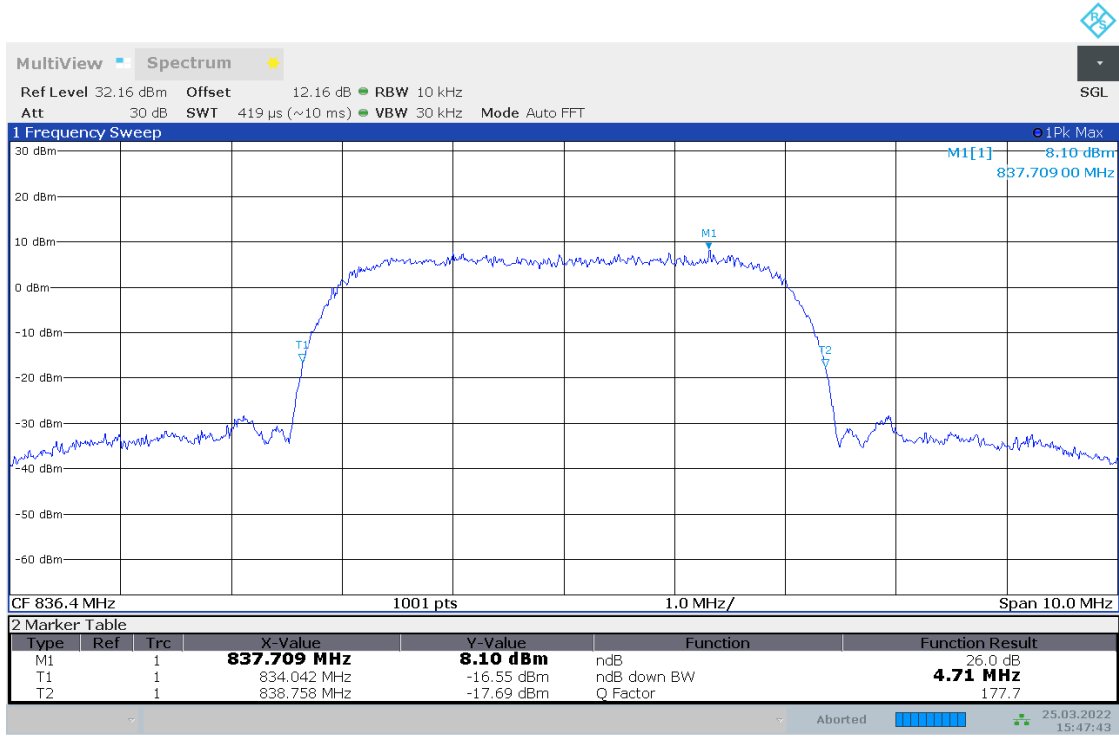


15:47:17 25.03.2022

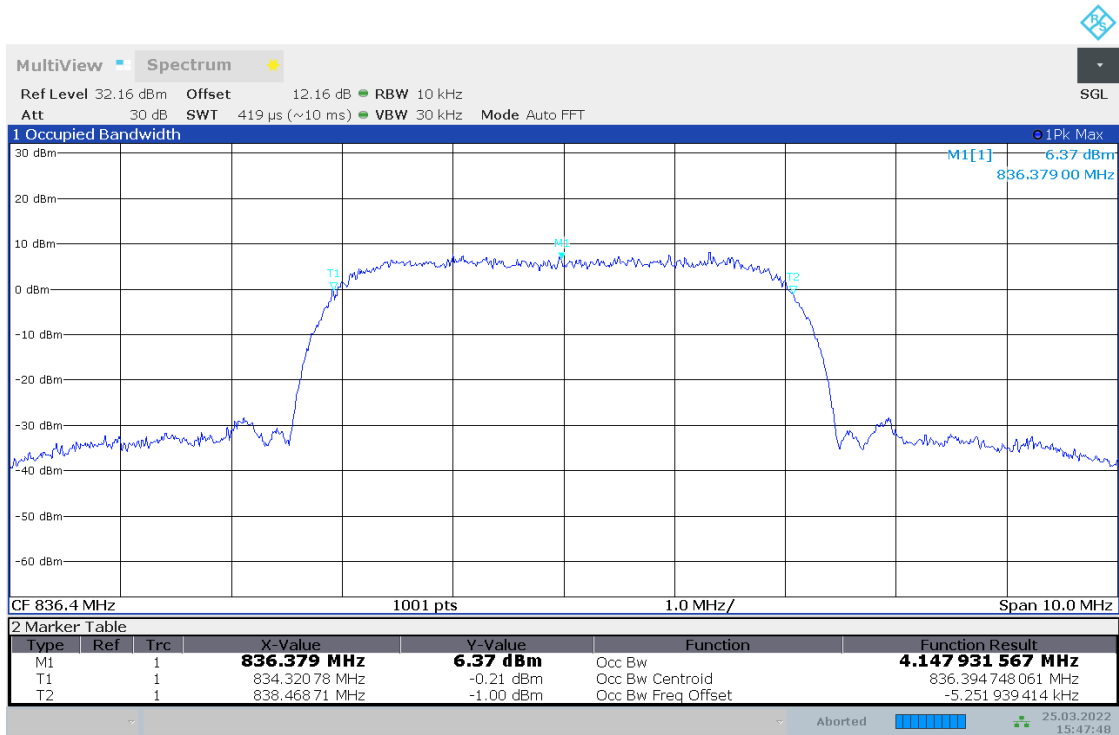


15:47:22 25.03.2022

## 4.2.2 BAND 5\_TM1\_MCH



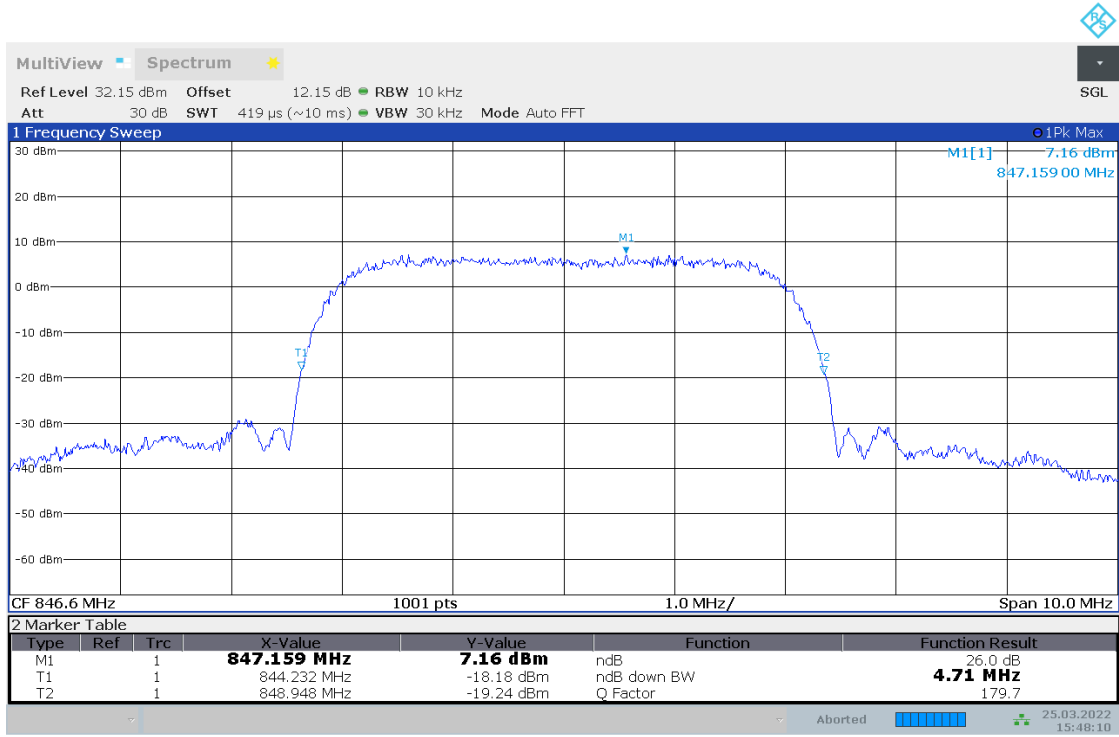
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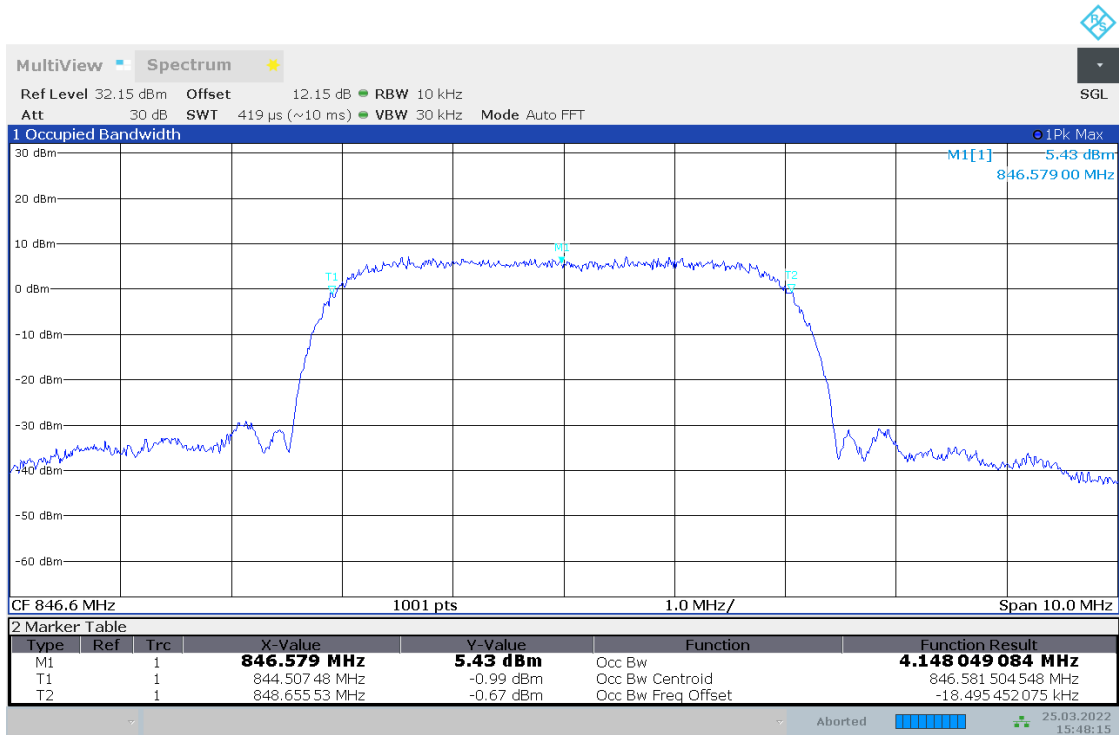
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## 4.2.3 BAND 5\_TM1\_HCH



15:48:11 25.03.2022



15:48:16 25.03.2022

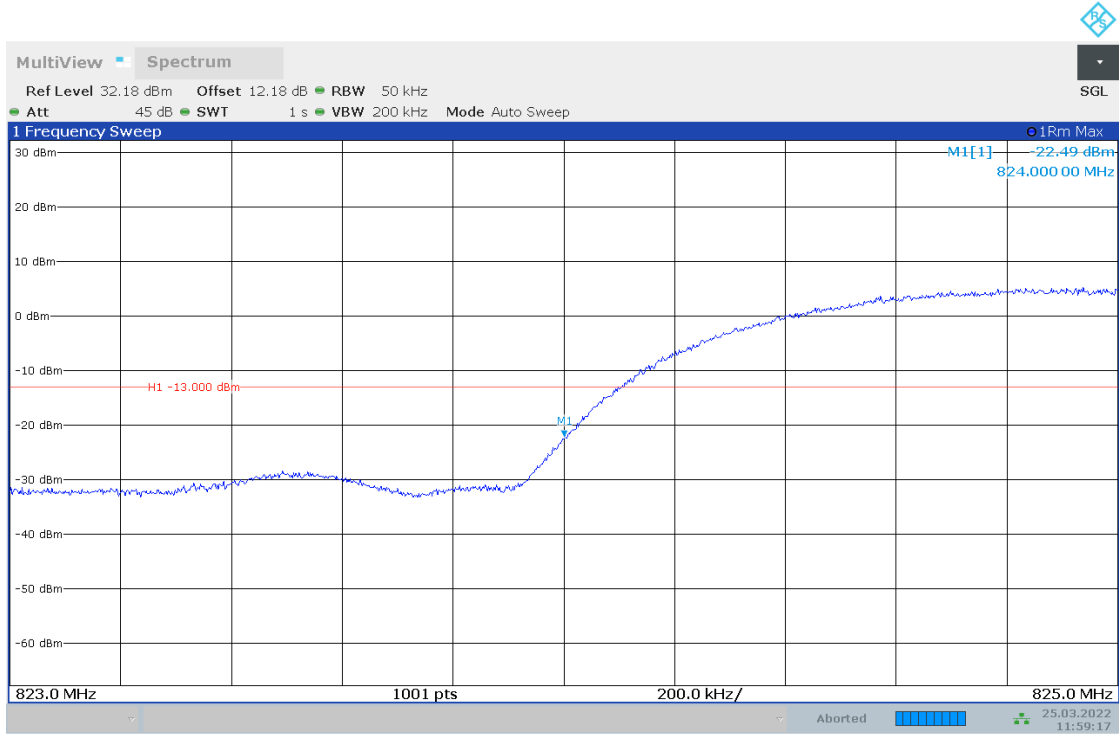
## 5. APPENDIX E - BAND EDGES COMPLIANCE

### 5.1 TEST RESULTS

Band Edges Compliance						
Test Band	Test Mode	Test Channel	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
5	TM1	LCH	824.0	-22.49	-13	PASS
		HCH	849.0	-24.52	-13	PASS

## 5.2 TEST PLOTS

### 5.2.1 BAND 5\_TM1\_LCH



11:59:18 25.03.2022

### 5.2.2 BAND 5\_TM1\_HCH



11:59:58 25.03.2022

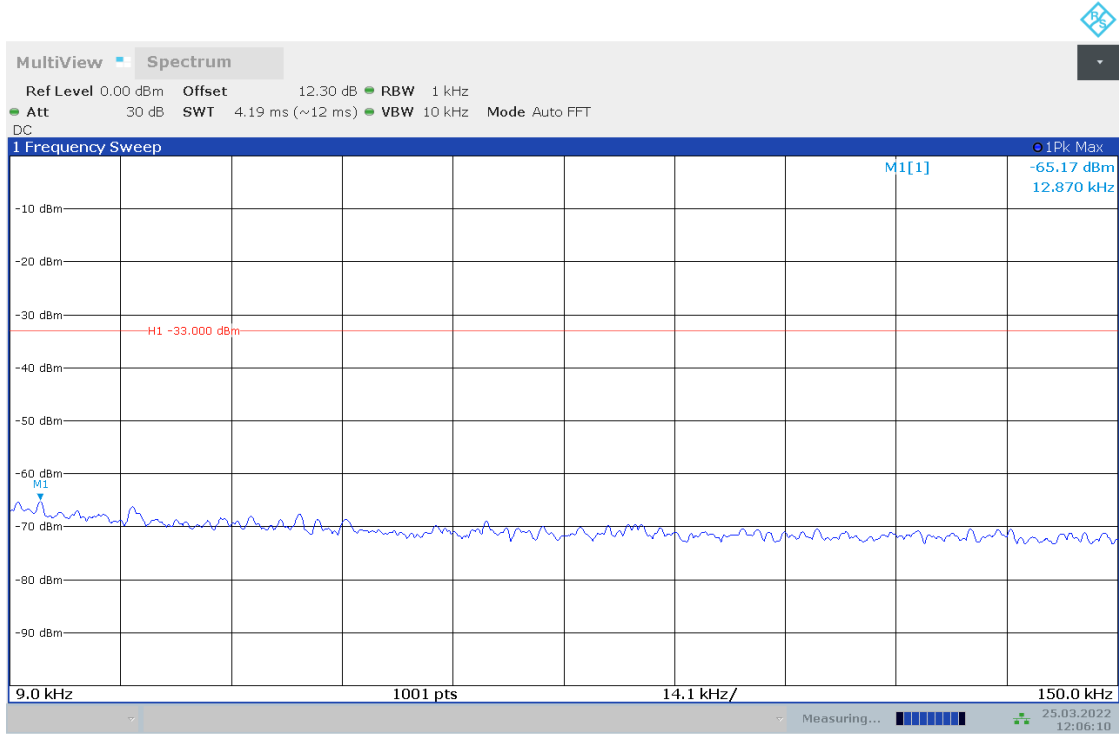
## 6. APPENDIX F - SPURIOUS EMISSION AT ANTENNA TERMINAL

### 6.1 TEST RESULTS

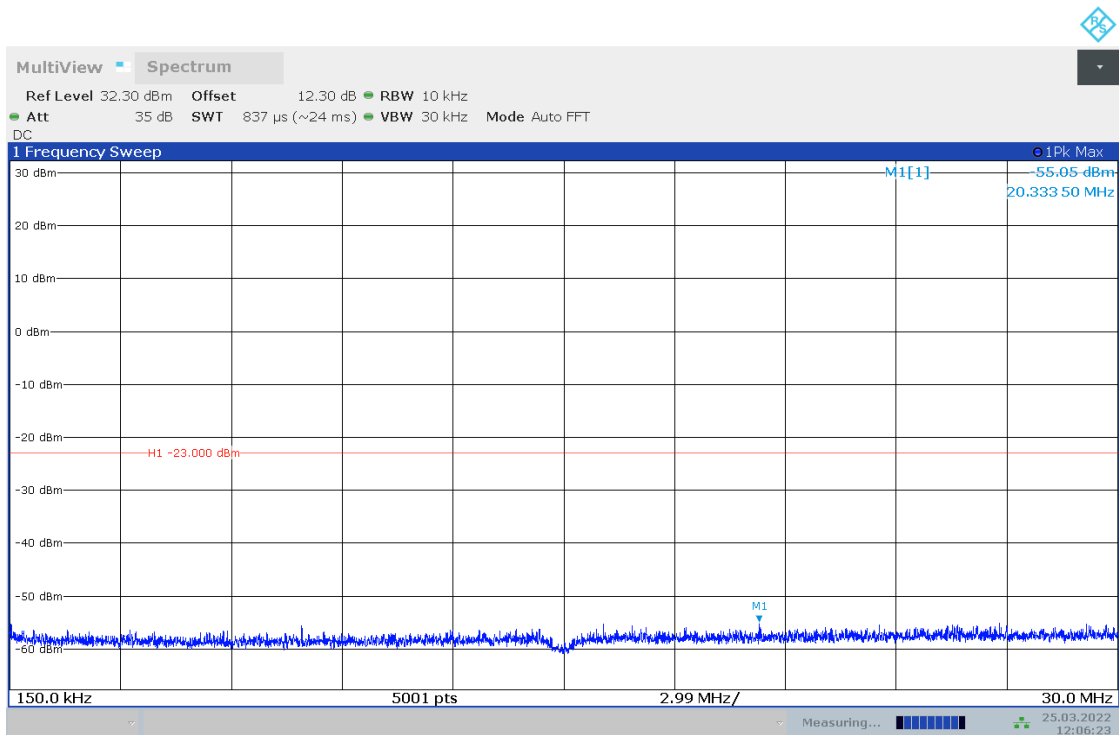
Spurious Emission at Antenna Terminal								
Test Band	Test Mode	Test Channel	Start Freq. [MHz]	Stop Freq. [MHz]	Measured Freq. [MHz]	Measured Power [dBm]	Limit [dBm]	Verdict
5	TM1	LCH	0.009	0.15	0.01	-65.17	-33	PASS
			0.15	30	20.33	-55.05	-23	PASS
			30	1000	822.75	-21.94	-13	PASS
			1000	12750	12453.17	-30.15	-13	PASS
		MCH	0.009	0.15	0.02	-65.35	-33	PASS
			0.15	30	29.85	-54.54	-23	PASS
			30	1000	612.43	-40.97	-13	PASS
			1000	12750	11887.13	-29.51	-13	PASS
		HCH	0.009	0.15	0.01	-65.85	-33	PASS
			0.15	30	21.2	-54.72	-23	PASS
			30	1000	850.3	-26.0	-13	PASS
			1000	12750	9519.57	-30.29	-13	PASS

## 6.2 TEST PLOTS

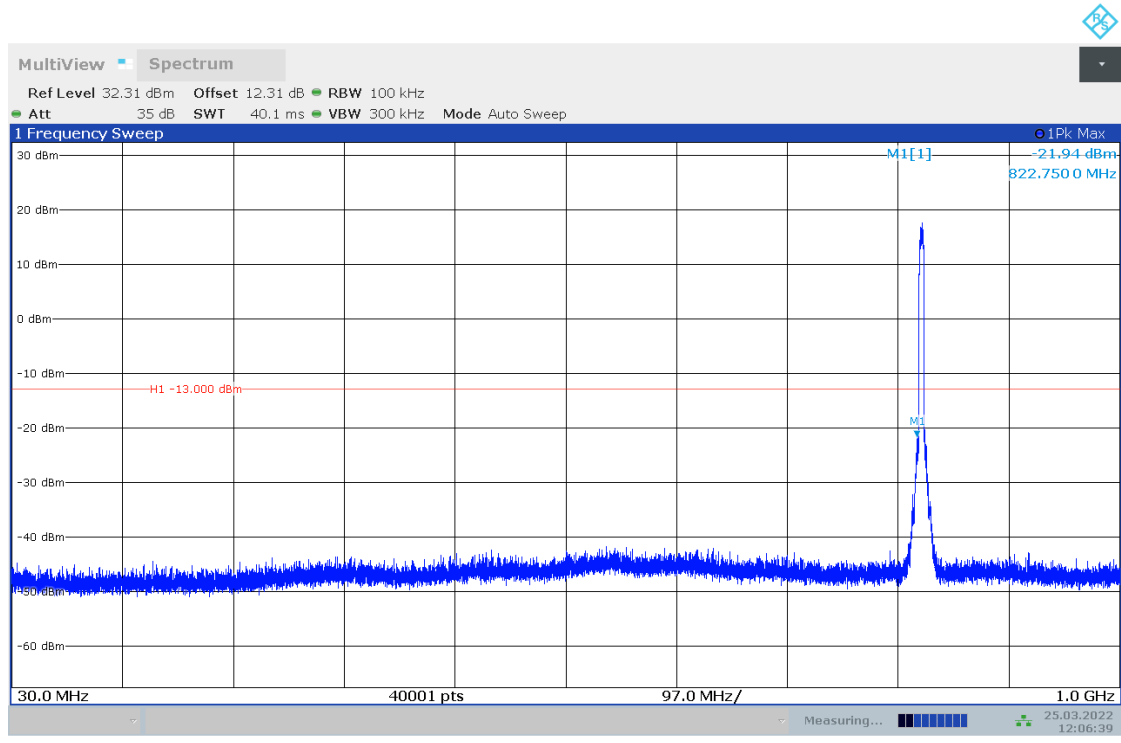
### 6.2.1 BAND 5\_TM1\_LCH



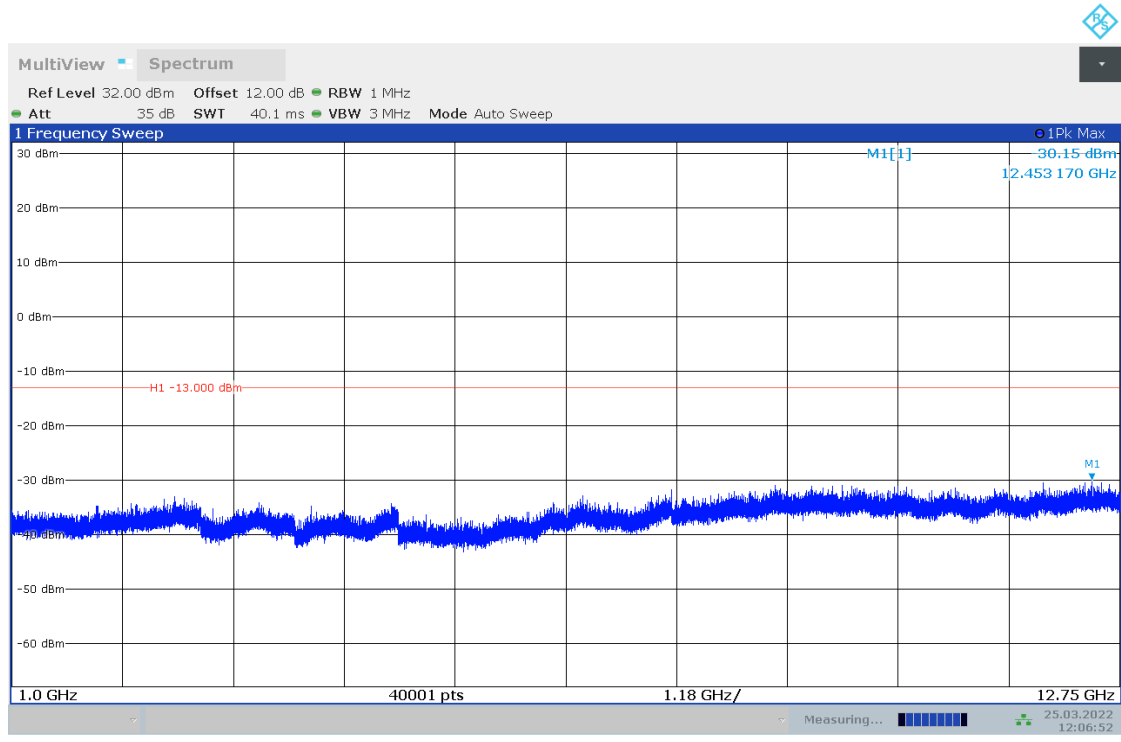
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12:06:24 25.03.2022

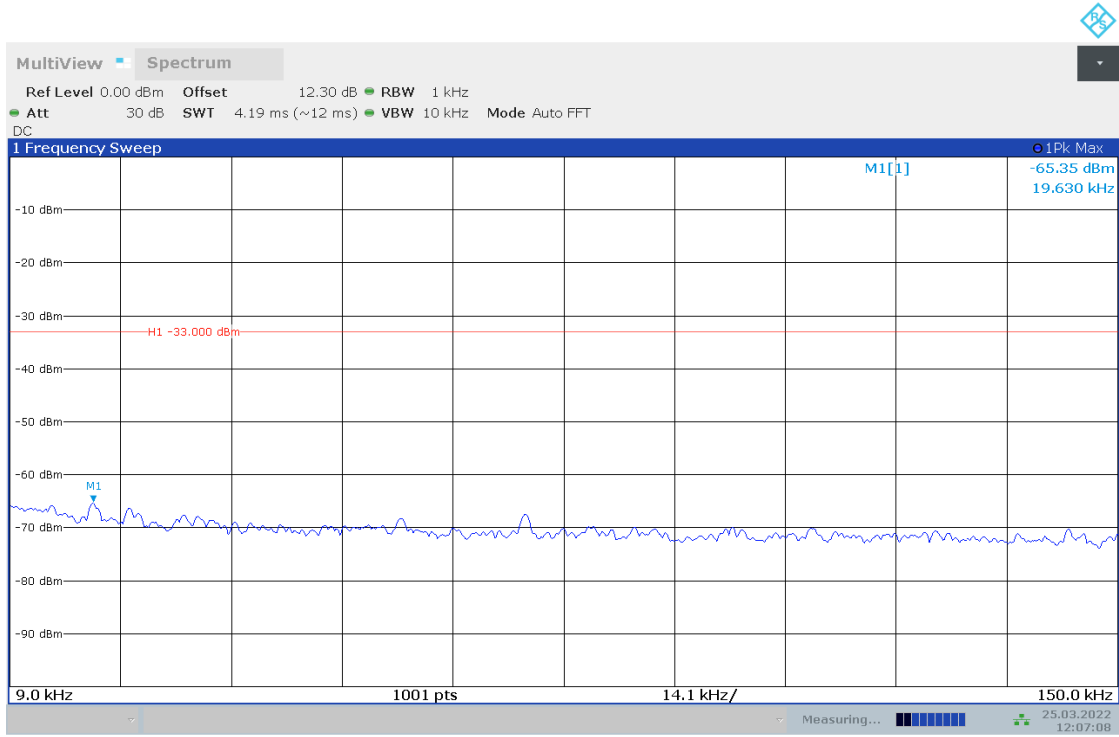


12:06:39 25.03.2022

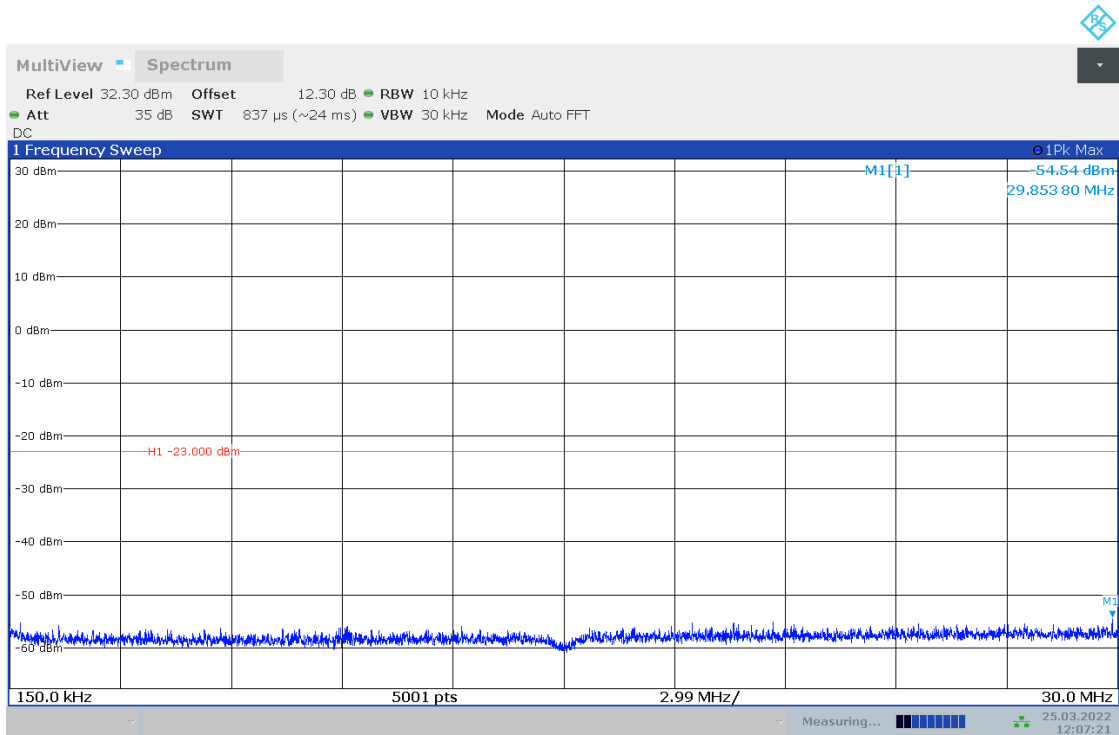


12:06:53 25.03.2022

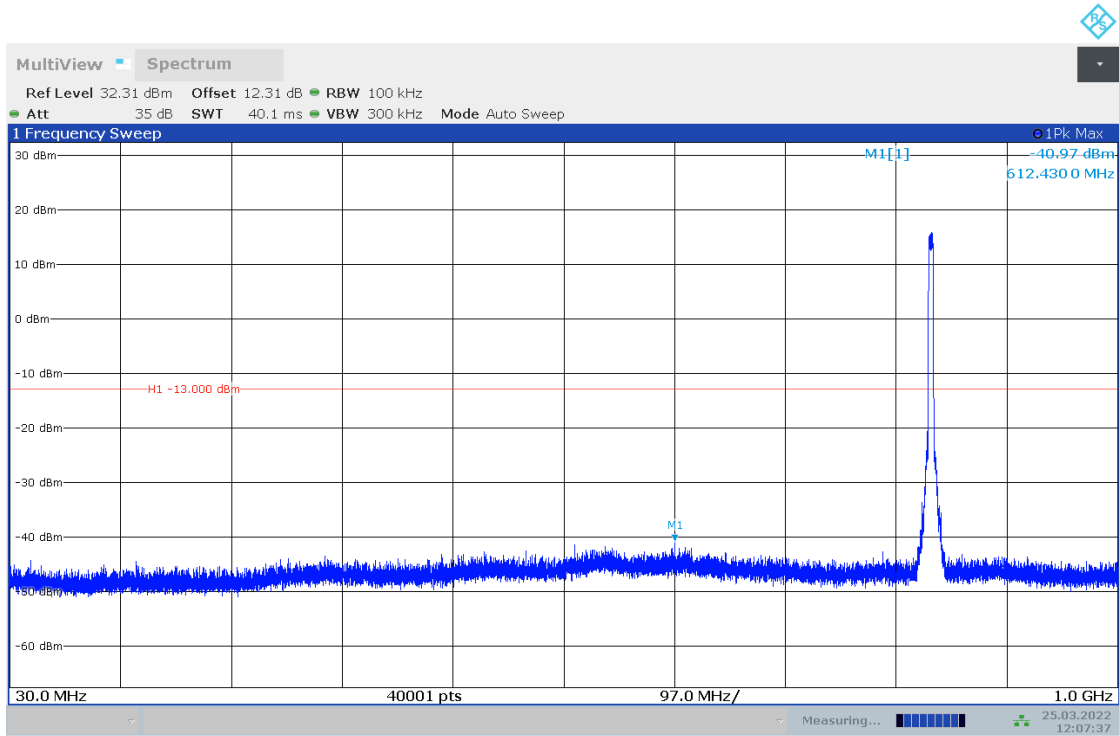
## 6.2.2 BAND 5\_TM1\_MCH



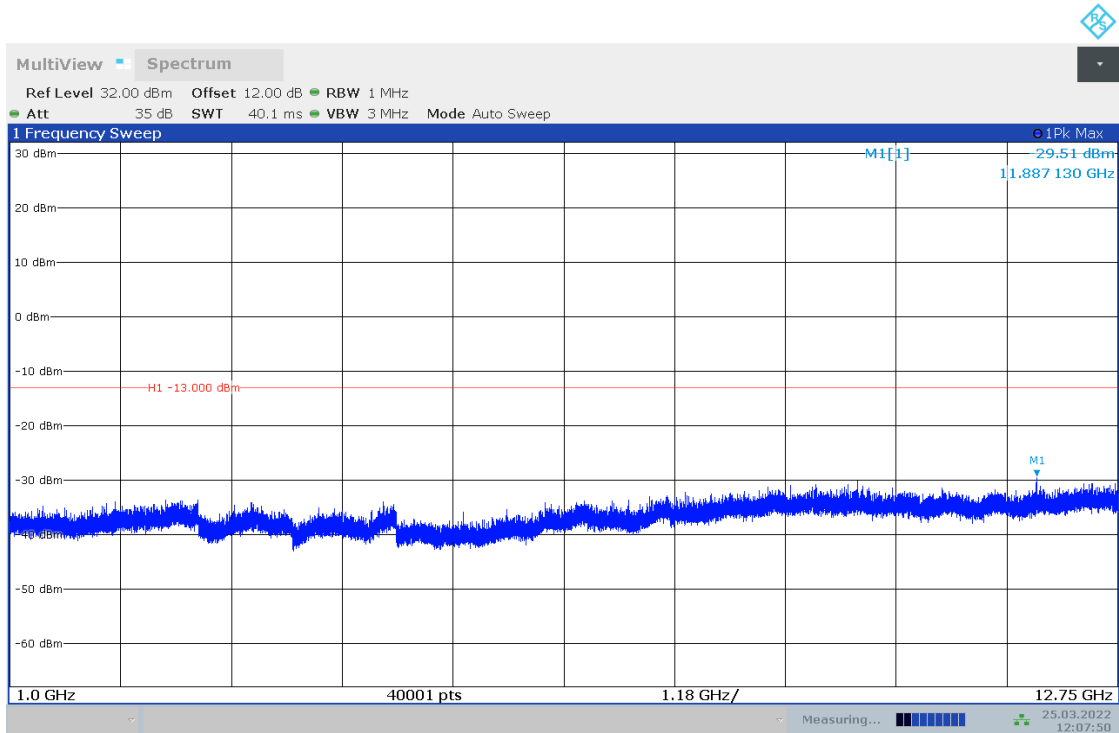
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12:07:22 25.03.2022



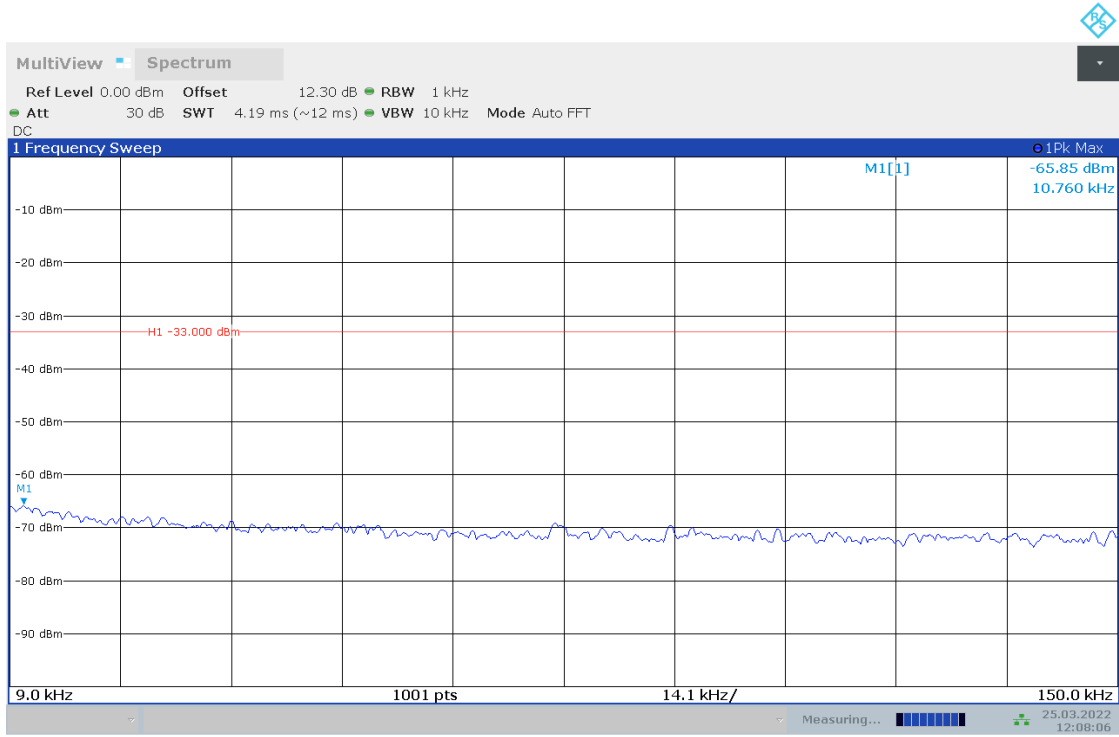
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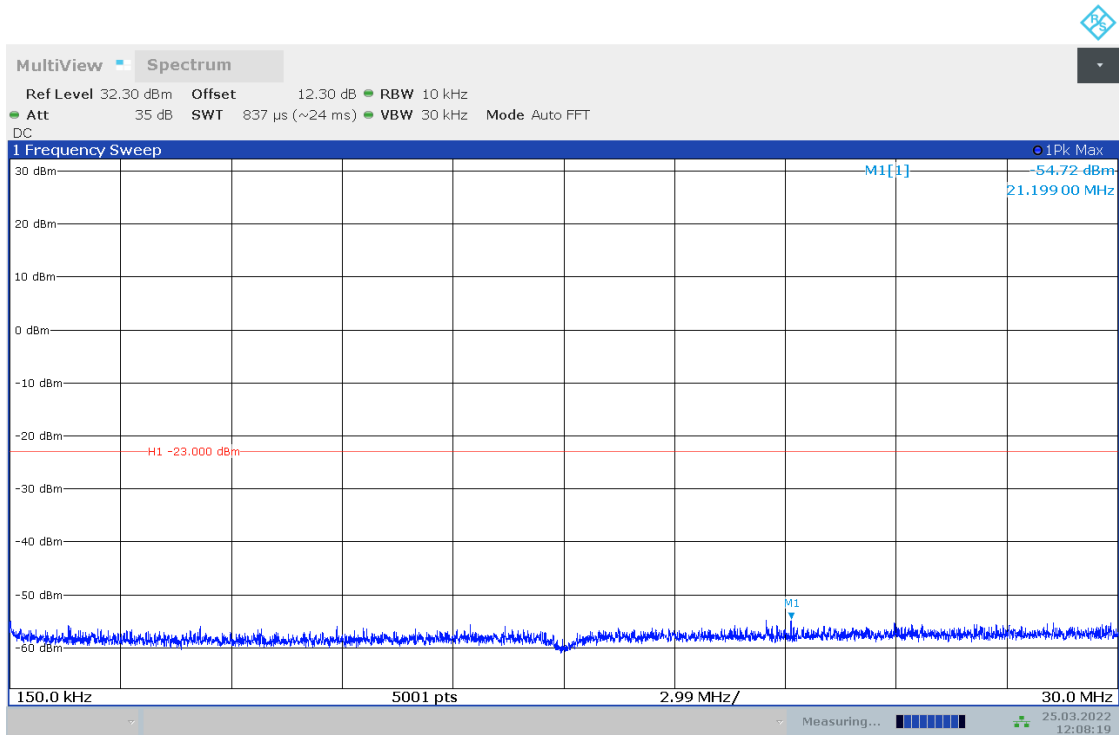
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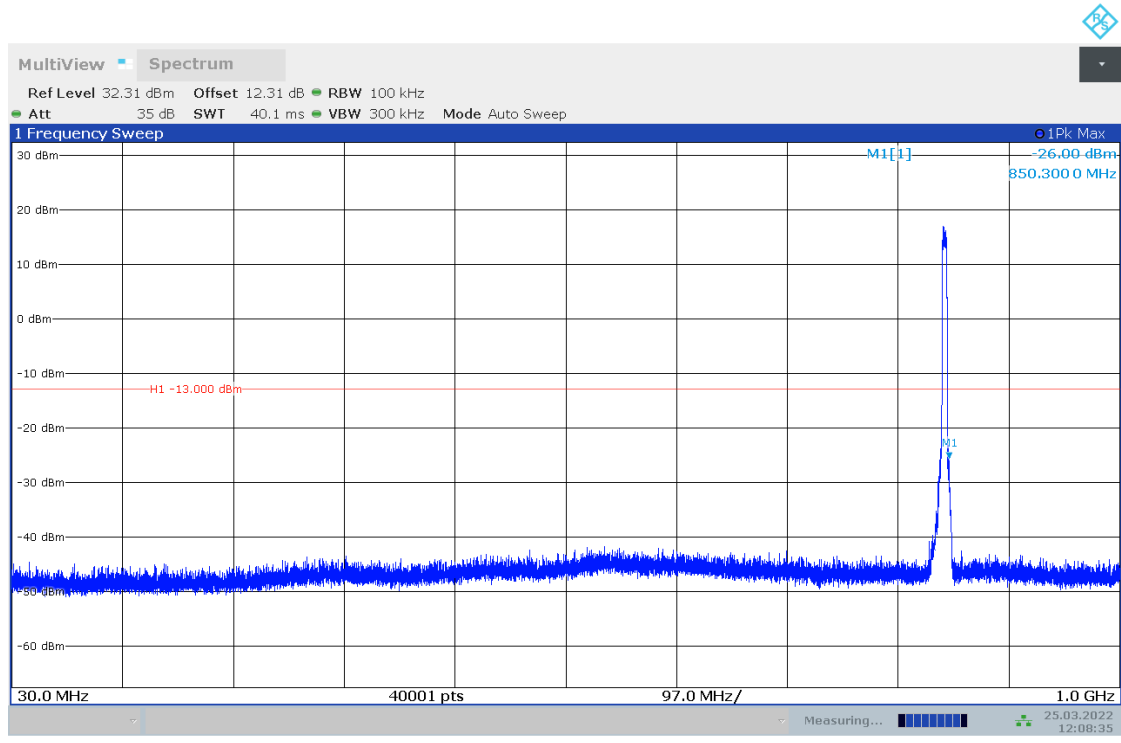
## 6.2.3 BAND 5\_TM1\_HCH



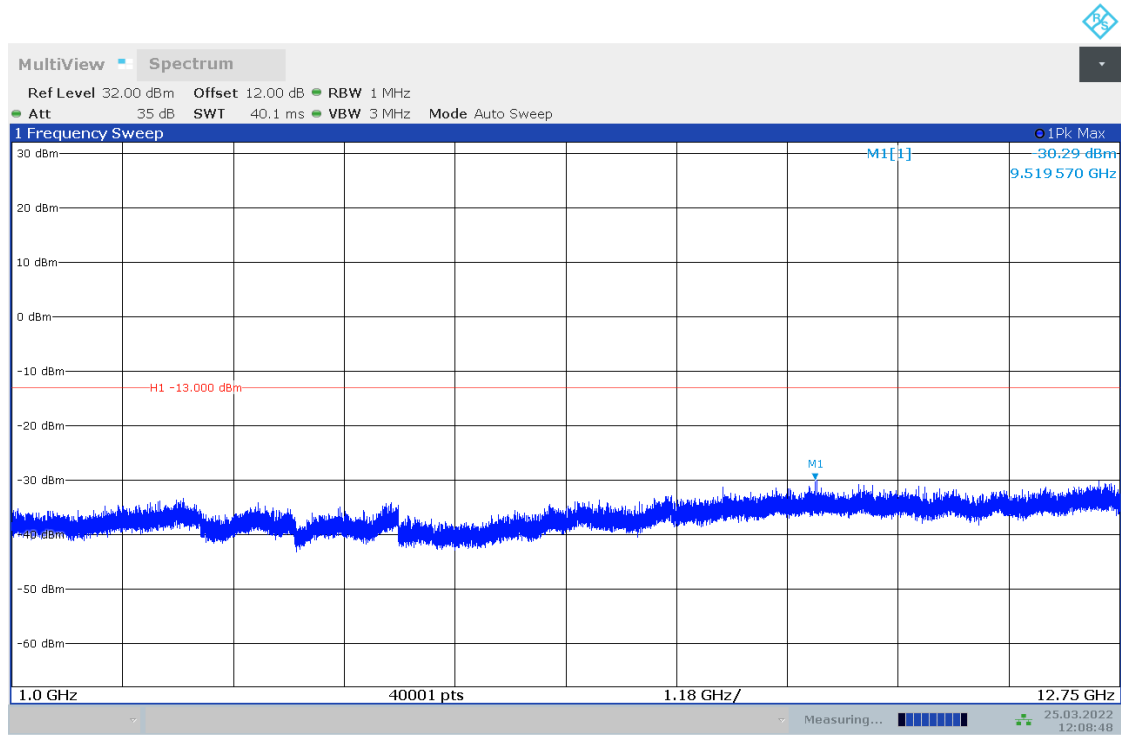
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12:08:19 25.03.2022



12:08:35 25.03.2022



12:08:48 25.03.2022

## 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
5	UMTS/TM1	LCH	TN	VH	0.49	0	PASS
			TN	VN	0.63	0	PASS
			TN	VL	0.3	0	PASS
		MCH	TN	VH	-1.69	0	PASS
			TN	VN	-1.08	0	PASS
			TN	VL	-1.28	0	PASS
		HCH	TN	VH	-2.23	0	PASS
			TN	VN	-2.65	0	PASS
			TN	VL	-2.87	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
5	UMTS/TM1	LCH	VN	-30	0.98	0	PASS
			VN	-20	0.52	0	PASS
			VN	-10	0.26	0	PASS
			VN	0	0.52	0	PASS
			VN	10	0.60	0	PASS
			VN	20	0.85	0	PASS
			VN	30	0.67	0	PASS
			VN	40	0.27	0	PASS
			VN	50	0.30	0	PASS
		MCH	VN	-30	-1.00	0	PASS
			VN	-20	-0.20	0	PASS
			VN	-10	-0.49	0	PASS
			VN	0	-1.02	0	PASS
			VN	10	-0.35	0	PASS
			VN	20	-1.49	0	PASS
			VN	30	-0.98	0	PASS
			VN	40	-0.96	0	PASS
			VN	50	-0.65	0	PASS
		HCH	VN	-30	-2.26	0	PASS
			VN	-20	-2.42	0	PASS
			VN	-10	-2.83	0	PASS
			VN	0	-2.63	0	PASS
			VN	10	-2.59	0	PASS
			VN	20	-2.45	0	PASS
			VN	30	-2.57	0	PASS
			VN	40	-3.07	0	PASS
			VN	50	-2.47	0	PASS

End of Test Report