



Appendix B

Test Data for SZEM161201085001RG



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (ERP) for LTE BAND 5

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM1	1.4M	LCH	RB1#0	22.06	21.06	38.45	PASS
				RB1#2	22.15	21.15	38.45	PASS
				RB1#5	22.06	21.06	38.45	PASS
				RB3#0	22.15	21.15	38.45	PASS
				RB3#2	22.10	21.10	38.45	PASS
				RB3#3	22.15	21.15	38.45	PASS
				RB6#0	21.12	20.12	38.45	PASS
			MCH	RB1#0	22.06	21.06	38.45	PASS
				RB1#2	22.14	21.14	38.45	PASS
				RB1#5	22.08	21.08	38.45	PASS
				RB3#0	22.16	21.16	38.45	PASS
				RB3#2	22.15	21.15	38.45	PASS
				RB3#3	22.17	21.17	38.45	PASS
				RB6#0	21.14	20.14	38.45	PASS
			HCH	RB1#0	22.12	21.12	38.45	PASS
				RB1#2	22.21	21.21	38.45	PASS
				RB1#5	22.11	21.11	38.45	PASS
				RB3#0	22.25	21.25	38.45	PASS
				RB3#2	22.22	21.22	38.45	PASS
				RB3#3	22.23	21.23	38.45	PASS
				RB6#0	21.22	20.22	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM2	1.4M	LCH	RB1#0	21.28	20.28	38.45	PASS
				RB1#2	21.38	20.38	38.45	PASS
				RB1#5	21.26	20.26	38.45	PASS
				RB3#0	21.13	20.13	38.45	PASS
				RB3#2	21.08	20.08	38.45	PASS
				RB3#3	21.11	20.11	38.45	PASS
				RB6#0	20.18	19.18	38.45	PASS
			MCH	RB1#0	21.27	20.27	38.45	PASS
				RB1#2	21.40	20.40	38.45	PASS
				RB1#5	21.30	20.30	38.45	PASS
				RB3#0	21.15	20.15	38.45	PASS
				RB3#2	21.14	20.14	38.45	PASS
				RB3#3	21.15	20.15	38.45	PASS
				RB6#0	20.20	19.20	38.45	PASS
			HCH	RB1#0	21.25	20.25	38.45	PASS
				RB1#2	21.32	20.32	38.45	PASS
				RB1#5	21.23	20.23	38.45	PASS
				RB3#0	21.15	20.15	38.45	PASS
				RB3#2	21.10	20.10	38.45	PASS
				RB3#3	21.12	20.12	38.45	PASS
				RB6#0	20.24	19.24	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM1	3M	LCH	RB1#0	22.03	21.03	38.45	PASS
				RB1#7	22.07	21.07	38.45	PASS
				RB1#14	21.97	20.97	38.45	PASS
				RB8#0	21.13	20.13	38.45	PASS
				RB8#4	21.12	20.12	38.45	PASS
				RB8#7	21.10	20.10	38.45	PASS
				RB15#0	21.10	20.10	38.45	PASS
			MCH	RB1#0	22.07	21.07	38.45	PASS
				RB1#7	22.13	21.13	38.45	PASS
				RB1#14	22.06	21.06	38.45	PASS
				RB8#0	21.19	20.19	38.45	PASS
				RB8#4	21.19	20.19	38.45	PASS
				RB8#7	21.18	20.18	38.45	PASS
				RB15#0	21.16	20.16	38.45	PASS
			HCH	RB1#0	22.15	21.15	38.45	PASS
				RB1#7	22.18	21.18	38.45	PASS
				RB1#14	22.09	21.09	38.45	PASS
				RB8#0	21.28	20.28	38.45	PASS
				RB8#4	21.24	20.24	38.45	PASS
				RB8#7	21.22	20.22	38.45	PASS
				RB15#0	21.24	20.24	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM2	3M	LCH	RB1#0	21.25	20.25	38.45	PASS
				RB1#7	21.32	20.32	38.45	PASS
				RB1#14	21.22	20.22	38.45	PASS
				RB8#0	20.16	19.16	38.45	PASS
				RB8#4	20.16	19.16	38.45	PASS
				RB8#7	20.15	19.15	38.45	PASS
				RB15#0	20.10	19.10	38.45	PASS
			MCH	RB1#0	21.29	20.29	38.45	PASS
				RB1#7	21.35	20.35	38.45	PASS
				RB1#14	21.31	20.31	38.45	PASS
				RB8#0	20.25	19.25	38.45	PASS
				RB8#4	20.23	19.23	38.45	PASS
				RB8#7	20.22	19.22	38.45	PASS
				RB15#0	20.19	19.19	38.45	PASS
			HCH	RB1#0	21.30	20.30	38.45	PASS
				RB1#7	21.29	20.29	38.45	PASS
				RB1#14	21.21	20.21	38.45	PASS
				RB8#0	20.29	19.29	38.45	PASS
				RB8#4	20.24	19.24	38.45	PASS
				RB8#7	20.23	19.23	38.45	PASS
				RB15#0	20.22	19.22	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM1	5M	LCH	RB1#0	22.07	21.07	38.45	PASS
				RB1#13	22.06	21.06	38.45	PASS
				RB1#24	22.00	21.00	38.45	PASS
				RB12#0	21.11	20.11	38.45	PASS
				RB12#6	21.11	20.11	38.45	PASS
				RB12#13	21.12	20.12	38.45	PASS
				RB25#0	21.08	20.08	38.45	PASS
			MCH	RB1#0	22.11	21.11	38.45	PASS
				RB1#13	22.11	21.11	38.45	PASS
				RB1#24	22.07	21.07	38.45	PASS
				RB12#0	21.18	20.18	38.45	PASS
				RB12#6	21.19	20.19	38.45	PASS
				RB12#13	21.17	20.17	38.45	PASS
				RB25#0	21.14	20.14	38.45	PASS
			HCH	RB1#0	22.19	21.19	38.45	PASS
				RB1#13	22.20	21.20	38.45	PASS
				RB1#24	22.10	21.10	38.45	PASS
				RB12#0	21.27	20.27	38.45	PASS
				RB12#6	21.26	20.26	38.45	PASS
				RB12#13	21.22	20.22	38.45	PASS
				RB25#0	21.25	20.25	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM2	5M	LCH	RB1#0	21.36	20.36	38.45	PASS
				RB1#13	21.36	20.36	38.45	PASS
				RB1#24	21.29	20.29	38.45	PASS
				RB12#0	20.16	19.16	38.45	PASS
				RB12#6	20.16	19.16	38.45	PASS
				RB12#13	20.17	19.17	38.45	PASS
				RB25#0	20.12	19.12	38.45	PASS
			MCH	RB1#0	21.37	20.37	38.45	PASS
				RB1#13	21.40	20.40	38.45	PASS
				RB1#24	21.38	20.38	38.45	PASS
				RB12#0	20.19	19.19	38.45	PASS
				RB12#6	20.22	19.22	38.45	PASS
				RB12#13	20.21	19.21	38.45	PASS
				RB25#0	20.15	19.15	38.45	PASS
			HCH	RB1#0	21.42	20.42	38.45	PASS
				RB1#13	21.40	20.40	38.45	PASS
				RB1#24	21.26	20.26	38.45	PASS
				RB12#0	20.29	19.29	38.45	PASS
				RB12#6	20.25	19.25	38.45	PASS
				RB12#13	20.22	19.22	38.45	PASS
				RB25#0	20.23	19.23	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM1	10M	LCH	RB1#0	22.16	21.16	38.45	PASS
				RB1#25	22.13	21.13	38.45	PASS
				RB1#49	22.09	21.09	38.45	PASS
				RB25#0	21.15	20.15	38.45	PASS
				RB25#13	21.12	20.12	38.45	PASS
				RB25#25	21.15	20.15	38.45	PASS
				RB50#0	21.16	20.16	38.45	PASS
			MCH	RB1#0	22.18	21.18	38.45	PASS
				RB1#25	22.14	21.14	38.45	PASS
				RB1#49	22.04	21.04	38.45	PASS
				RB25#0	21.15	20.15	38.45	PASS
				RB25#13	21.16	20.16	38.45	PASS
				RB25#25	21.11	20.11	38.45	PASS
				RB50#0	21.13	20.13	38.45	PASS
			HCH	RB1#0	22.09	21.09	38.45	PASS
				RB1#25	22.13	21.13	38.45	PASS
				RB1#49	22.05	21.05	38.45	PASS
				RB25#0	21.16	20.16	38.45	PASS
				RB25#13	21.14	20.14	38.45	PASS
				RB25#25	21.12	20.12	38.45	PASS
				RB50#0	21.14	20.14	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND5	LTE/TM2	10M	LCH	RB1#0	21.53	20.53	38.45	PASS
				RB1#25	21.13	20.13	38.45	PASS
				RB1#49	21.11	20.11	38.45	PASS
				RB25#0	20.16	19.16	38.45	PASS
				RB25#13	20.15	19.15	38.45	PASS
				RB25#25	20.18	19.18	38.45	PASS
				RB50#0	20.17	19.17	38.45	PASS
			MCH	RB1#0	21.18	20.18	38.45	PASS
				RB1#25	21.52	20.52	38.45	PASS
				RB1#49	21.06	20.06	38.45	PASS
				RB25#0	20.23	19.23	38.45	PASS
				RB25#13	20.19	19.19	38.45	PASS
				RB25#25	20.15	19.15	38.45	PASS
				RB50#0	20.14	19.14	38.45	PASS
			HCH	RB1#0	21.11	20.11	38.45	PASS
				RB1#25	21.04	20.04	38.45	PASS
				RB1#49	21.31	20.31	38.45	PASS
				RB25#0	20.20	19.20	38.45	PASS
				RB25#13	20.24	19.24	38.45	PASS
				RB25#25	20.18	19.18	38.45	PASS
				RB50#0	20.10	19.10	38.45	PASS

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 5	TM1/10M	LCH	5.28	13	PASS
		MCH	5.33	13	PASS
		HCH	5.13	13	PASS
	TM2/10M	LCH	5.97	13	PASS
		MCH	6.06	13	PASS
		HCH	5.80	13	PASS



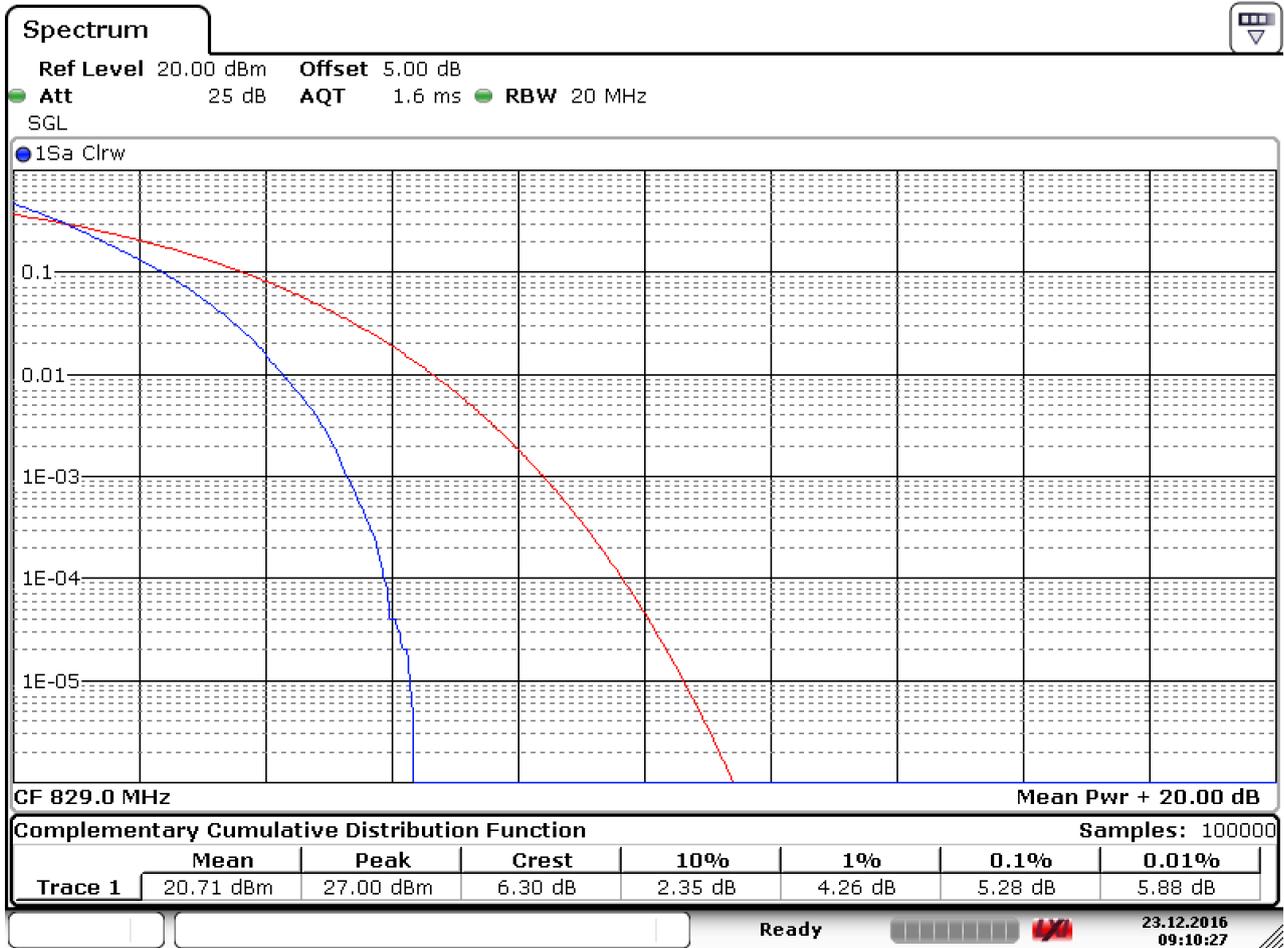
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band5

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=10MHz

2.1.1.1.1 Test Channel = LCH

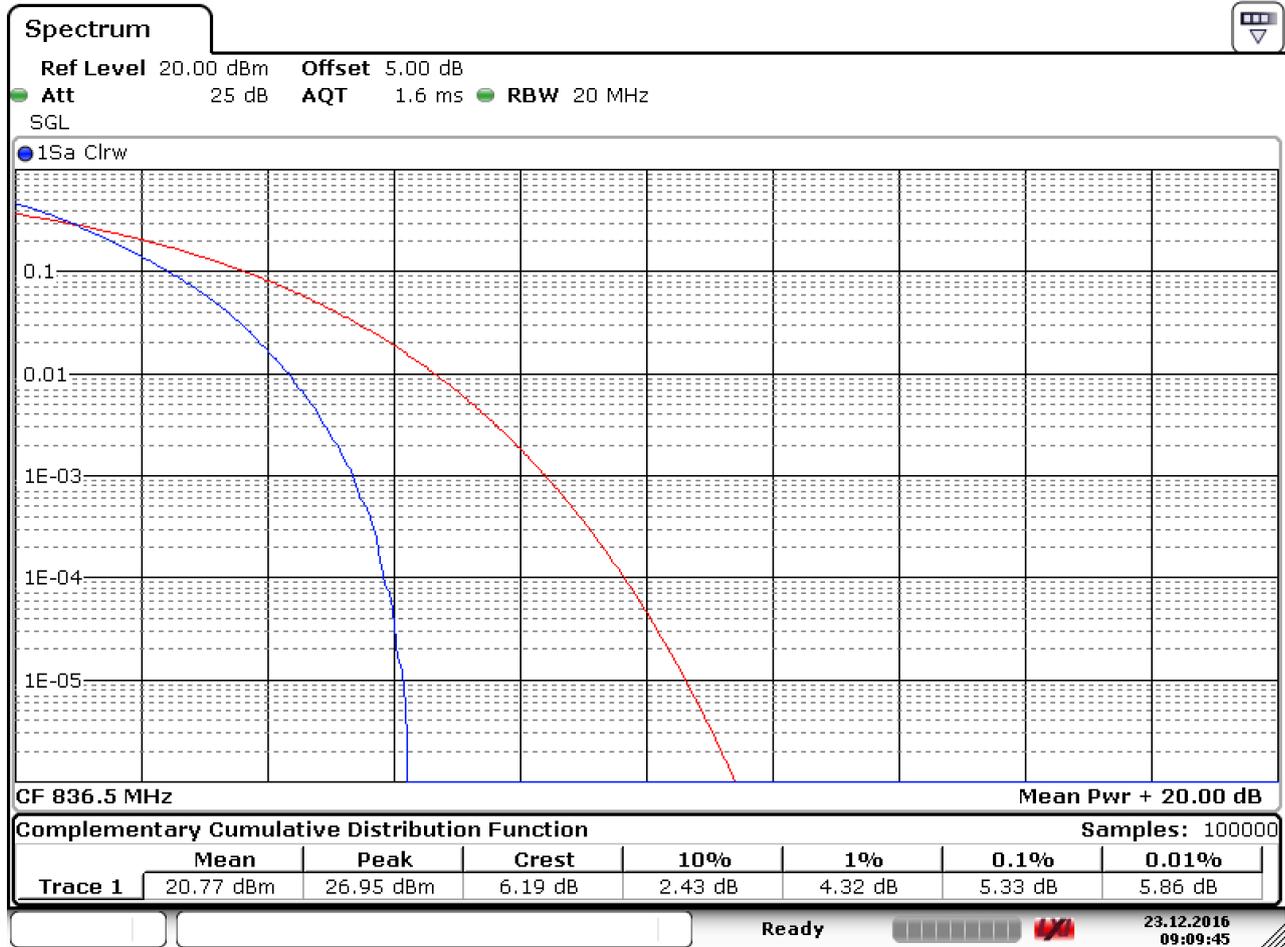


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2.1.1.1.2 Test Channel = MCH

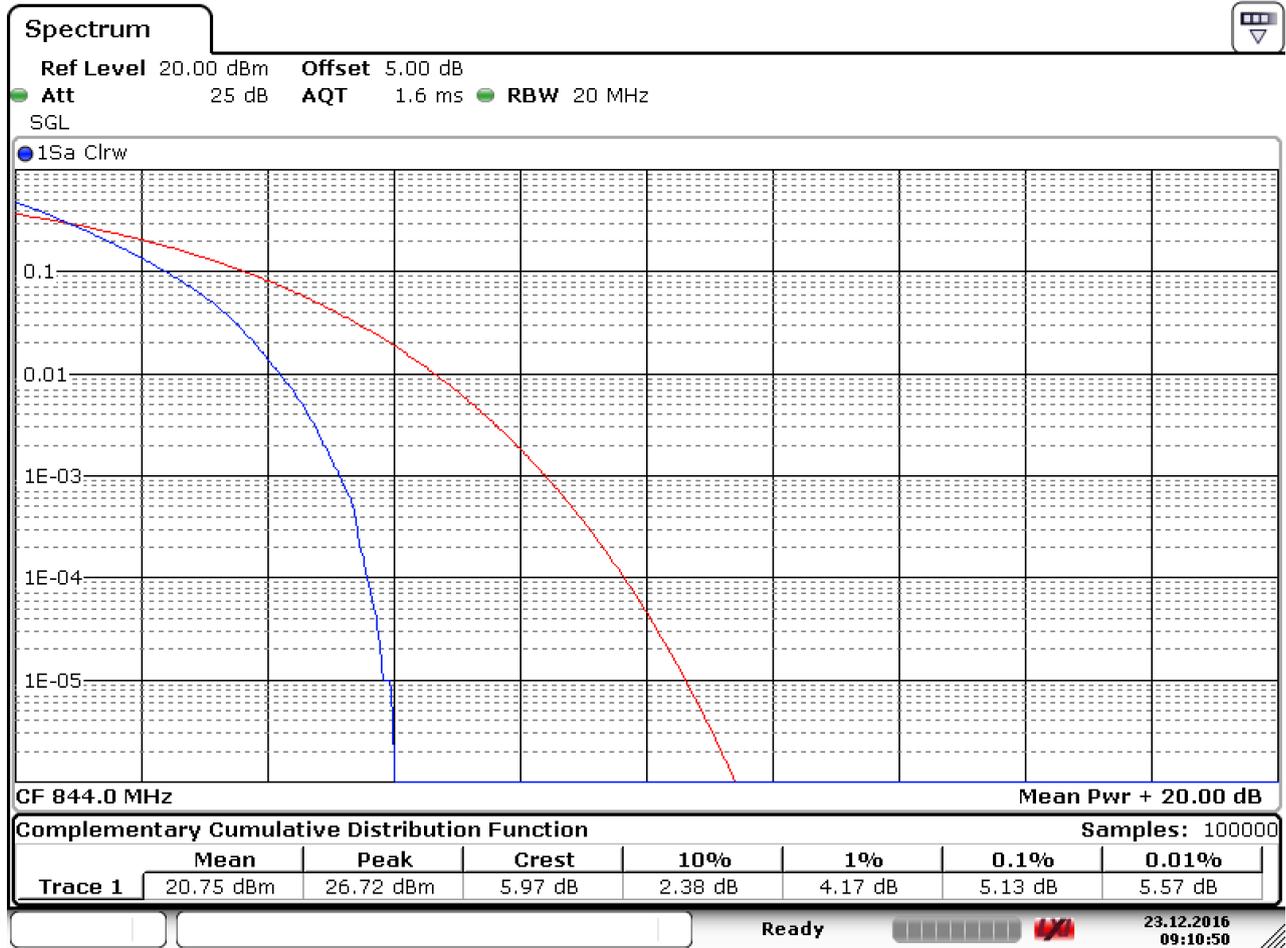


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2.1.1.1.3 Test Channel = HCH



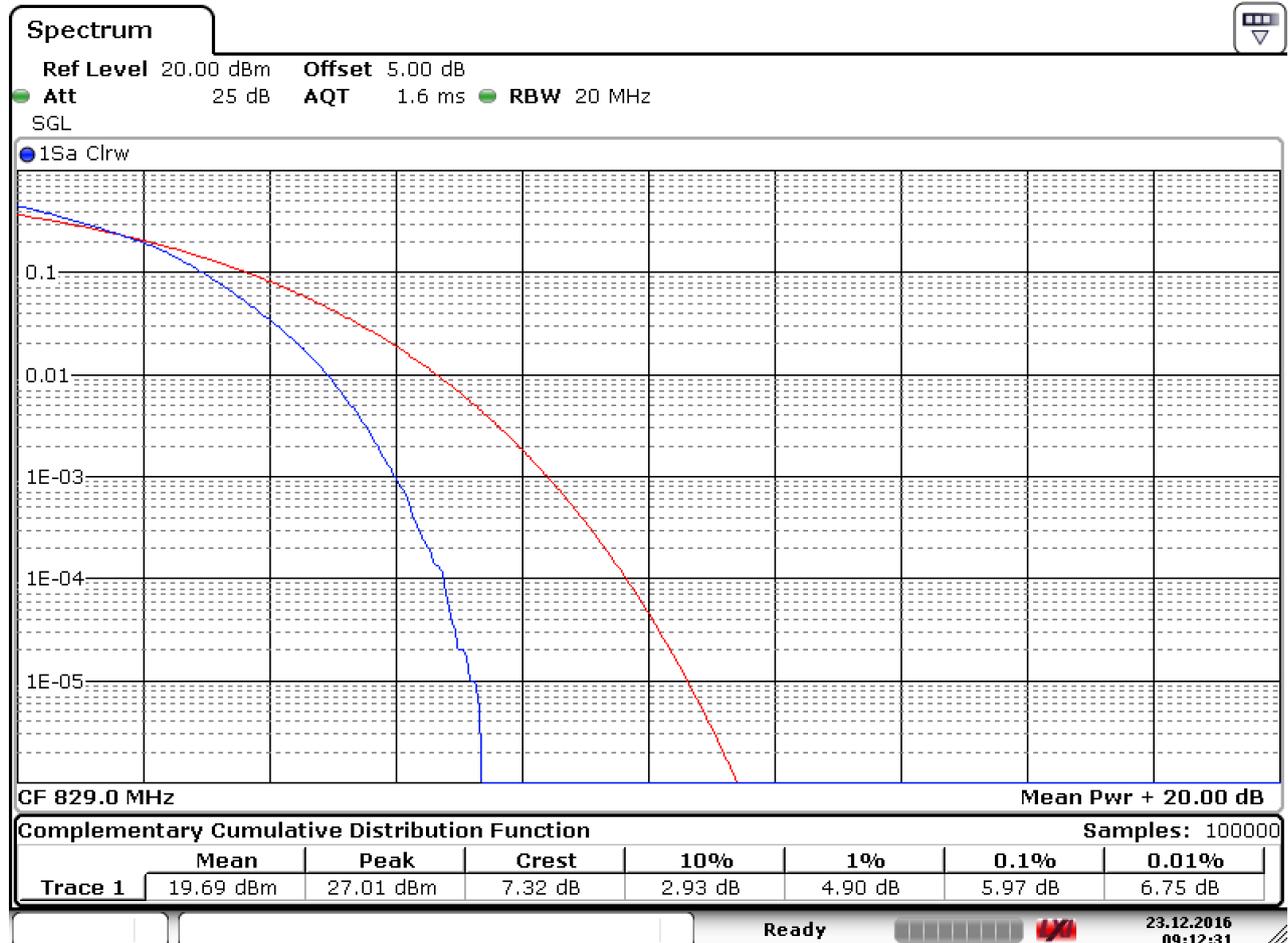
Date: 23.DEC.2016 09:10:50

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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz

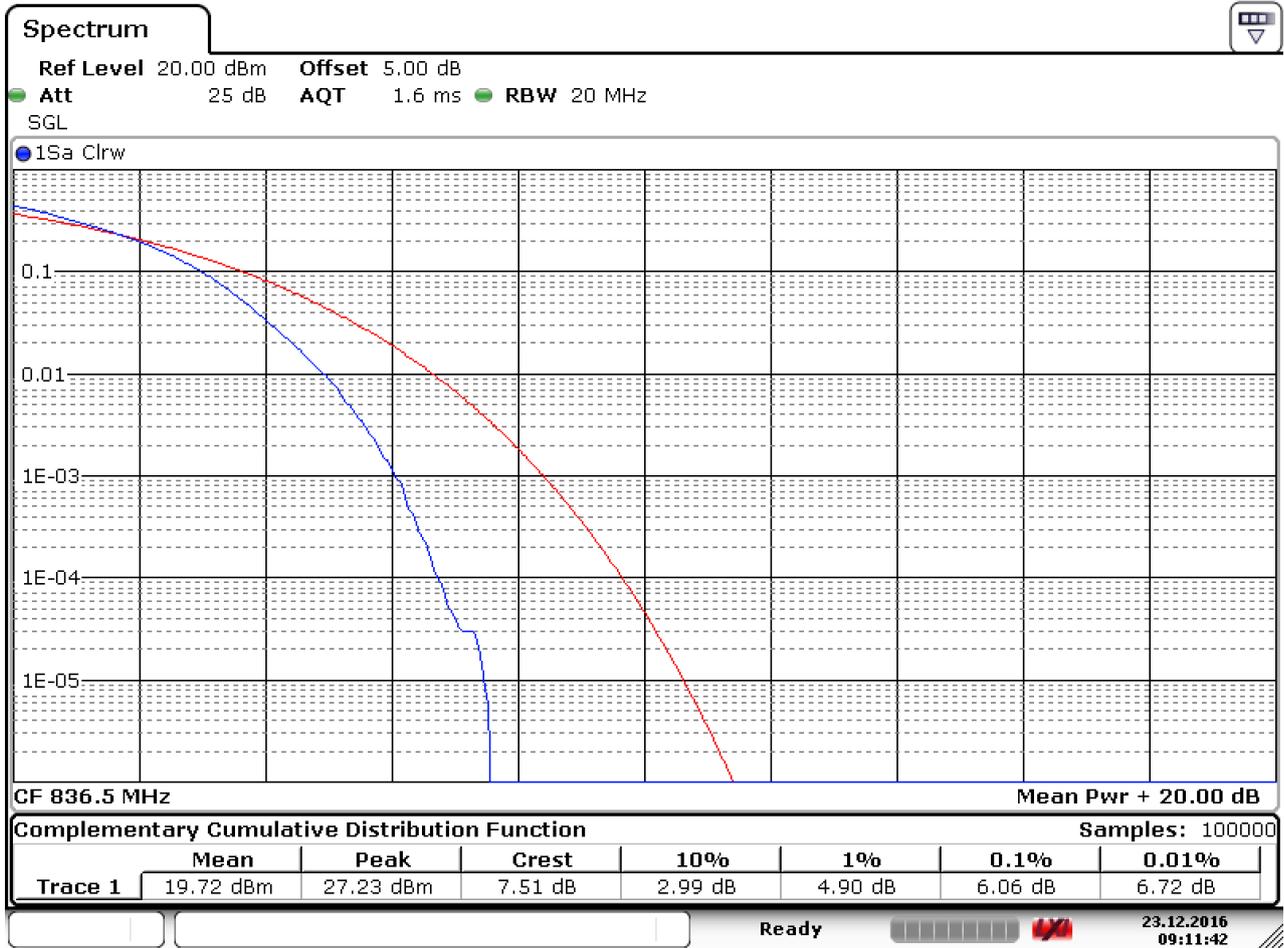
2.1.1.2.1 Test Channel = LCH



Date: 23.DEC.2016 09:12:31



2.1.1.2.2 Test Channel = MCH

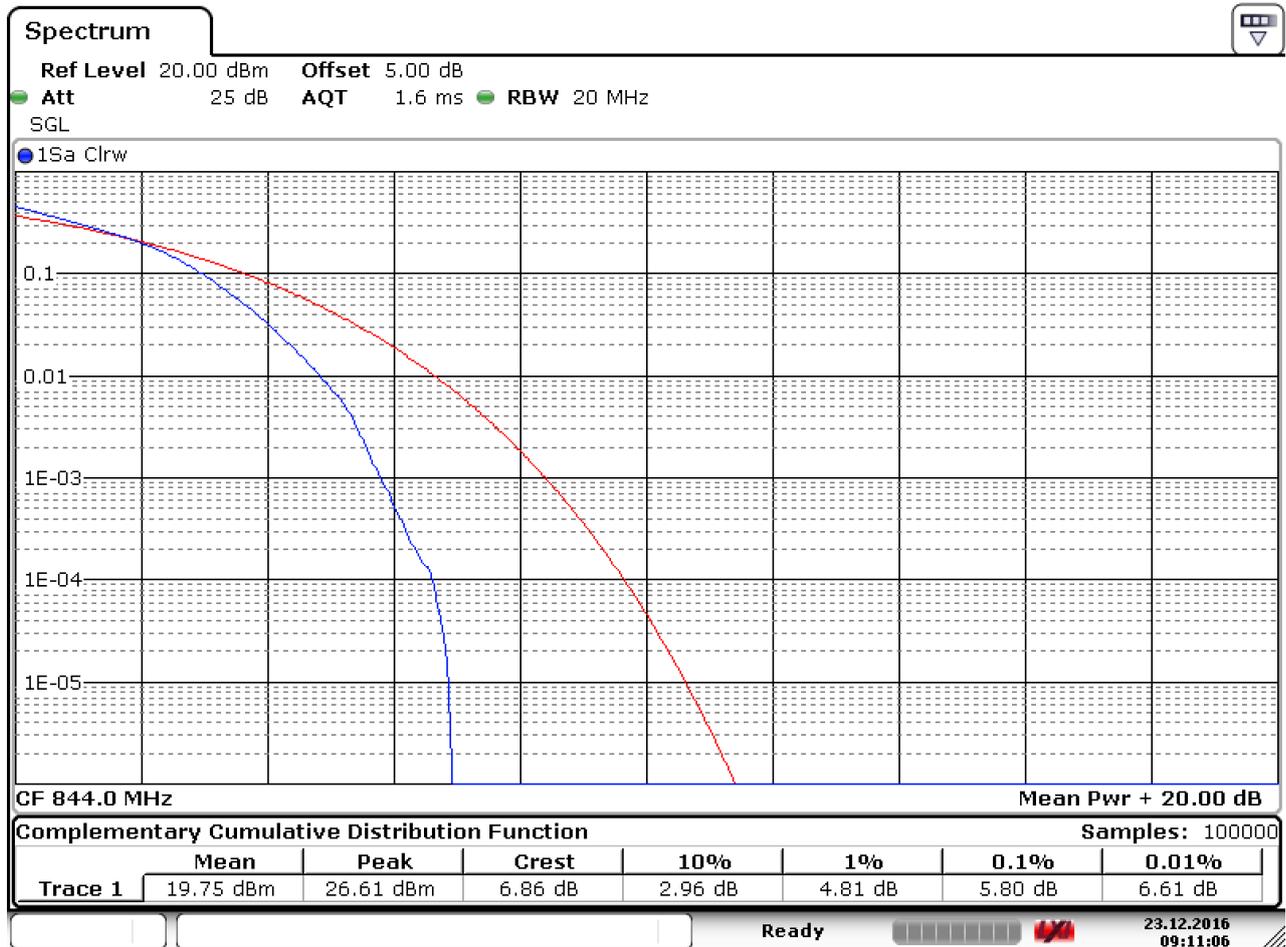


Date: 23.DEC.2016 09:11:43

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2.1.1.2.3 Test Channel = HCH



Date: 23.DEC.2016 09:11:07

3 Modulation Characteristics

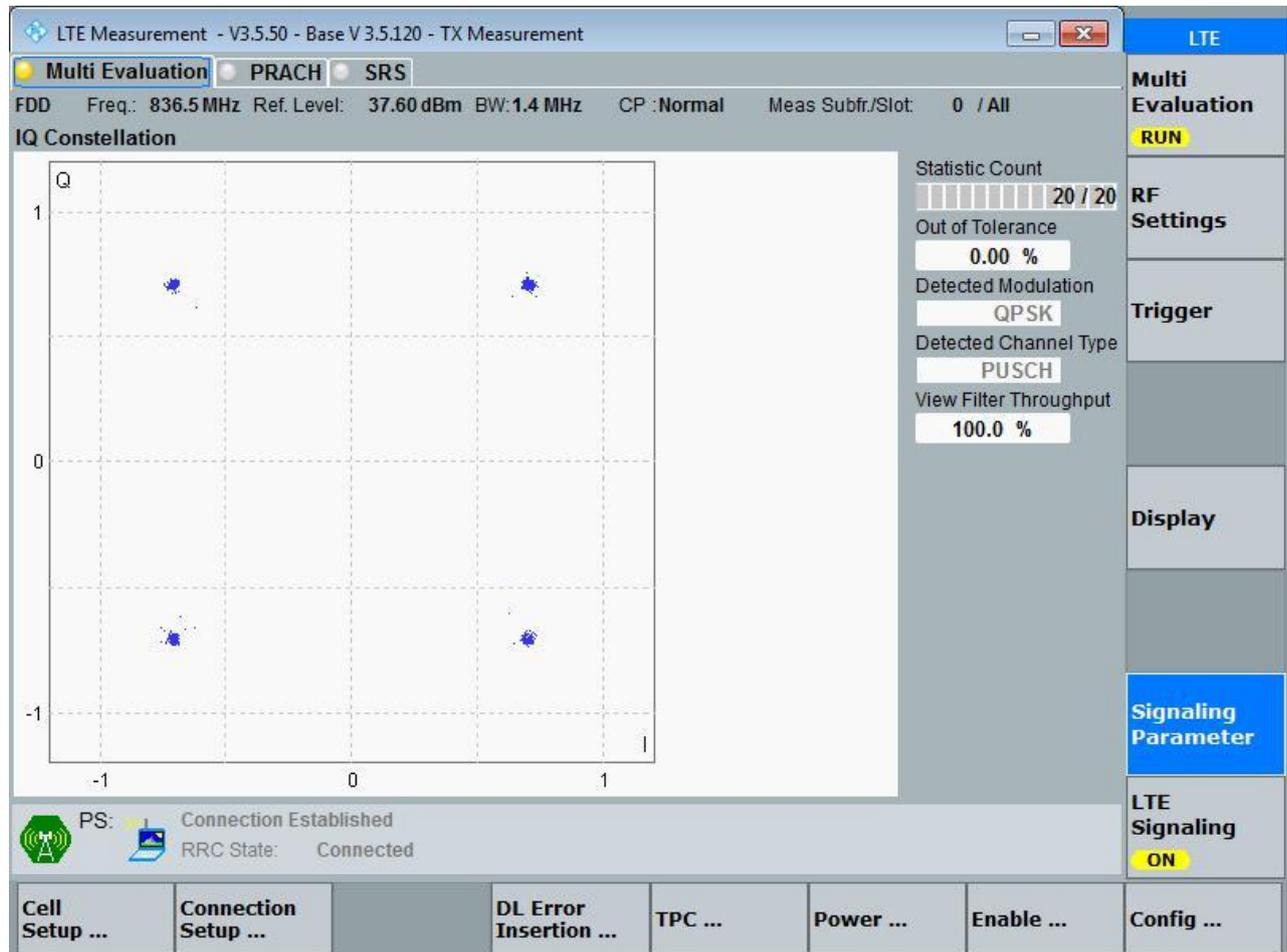
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band5

3.1.1.1 Test Mode = LTE /TM1 1.4MHz

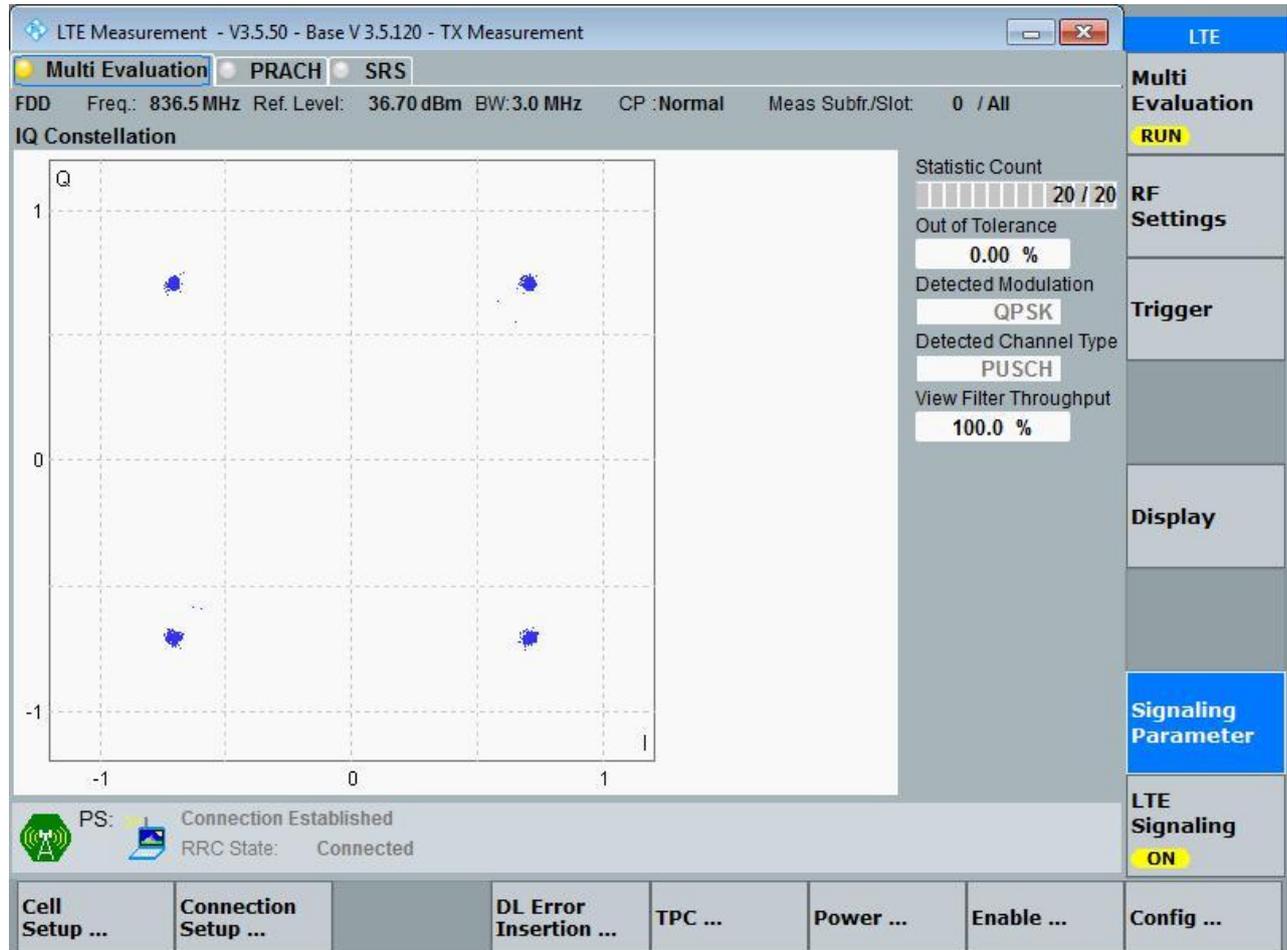
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 3MHz

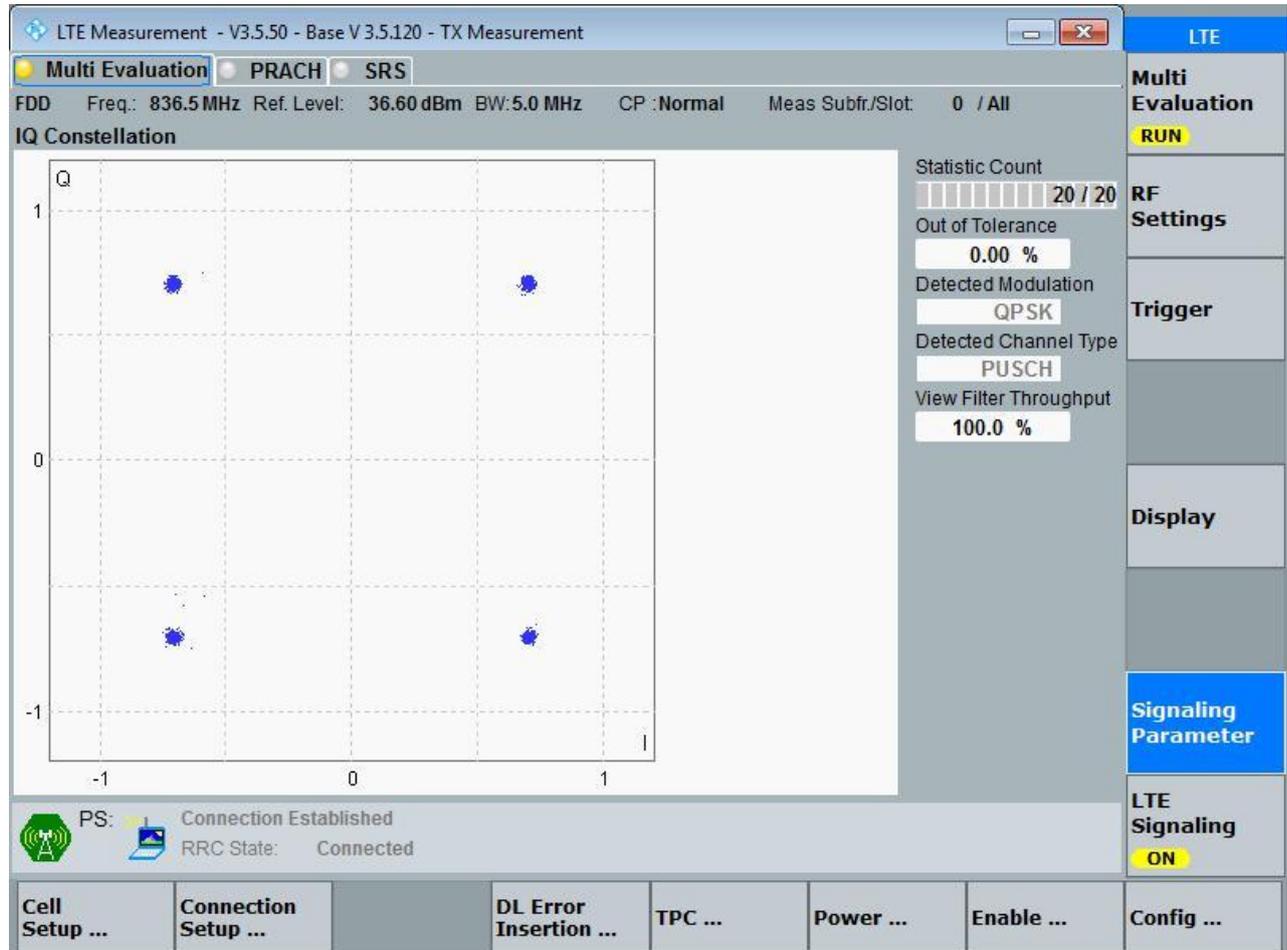
3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM1 5MHz

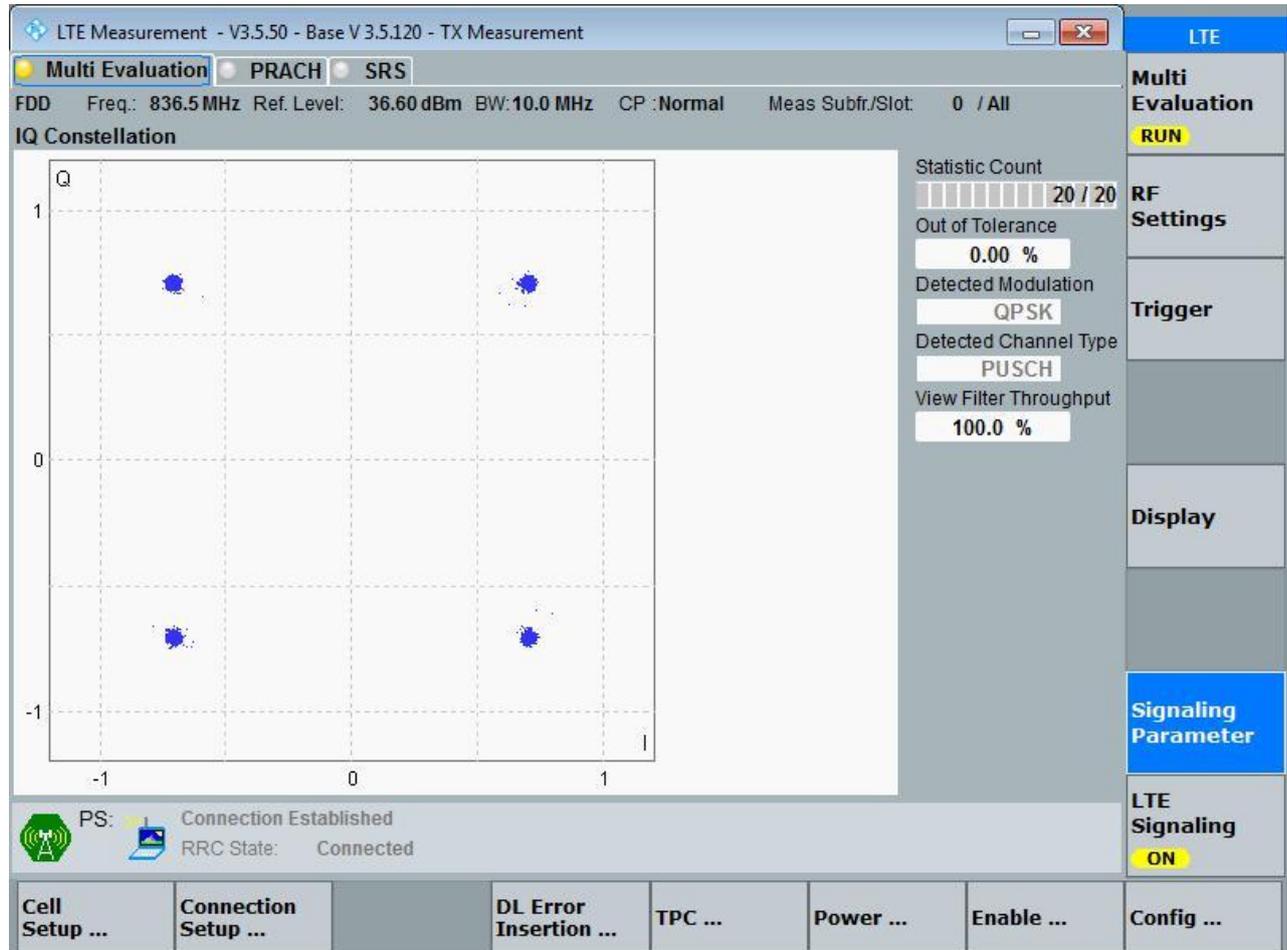
3.1.1.3.1 Test Channel = MCH





3.1.1.4 Test Mode = LTE /TM1 10MHz

3.1.1.4.1 Test Channel = MCH





3.1.1.5 Test Mode = LTE /TM2 1.4MHz
3.1.1.5.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window shows an 'IQ Constellation' plot with a grid from -1 to 1 on both axes, displaying a 16-QAM signal. The plot is titled 'IQ Constellation' and has 'Q' on the vertical axis and 'I' on the horizontal axis. To the right of the plot, there are several statistics and settings: 'Statistic Count' is 20 / 20, 'Out of Tolerance' is 0.00 %, 'Detected Modulation' is 16-QAM, 'Detected Channel Type' is PUSCH, and 'View Filter Throughput' is 100.0 %. The interface also includes a top status bar with 'LTE Measurement - V3.5.50 - Base V 3.5.120 - TX Measurement' and a right-hand sidebar with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'. At the bottom, there is a status bar showing 'PS: Connection Established' and 'RRC State: Connected', along with several configuration buttons like 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.



3.1.1.6 Test Mode = LTE /TM2 3MHz

3.1.1.6.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - V3.5.50 - Base V 3.5.120 - TX Measurement'. The interface is divided into several sections:

- Top Bar:** Shows 'Multi Evaluation' (selected), 'PRACH', and 'SRS' tabs. Below this, it displays 'FDD', 'Freq.: 836.5 MHz', 'Ref. Level: 36.70 dBm', 'BW: 3.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 0 / All'.
- IQ Constellation:** A central plot showing a 16-QAM constellation with points clustered around a grid. The axes are labeled 'Q' (vertical) and 'I' (horizontal), ranging from -1 to 1.
- Right Panel:** Contains several controls:
 - Statistic Count:** A progress bar showing 20 / 20.
 - Out of Tolerance:** A text box showing '0.00 %'.
 - Detected Modulation:** A text box showing '16-QAM'.
 - Detected Channel Type:** A text box showing 'PUSCH'.
 - View Filter Throughput:** A text box showing '100.0 %'.
- Bottom Bar:** Shows 'PS: Connection Established' and 'RRC State: Connected'.
- Bottom Navigation:** A row of buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.
- Right Sidebar:** A vertical menu with buttons: 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', 'LTE Signaling', and 'ON'.



3.1.1.7 Test Mode = LTE /TM2 5MHz

3.1.1.7.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - V3.5.50 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The status bar shows "FDD Freq.: 836.5 MHz Ref. Level: 36.60 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All".

The central part of the interface is an "IQ Constellation" plot. The vertical axis is labeled "Q" and ranges from -1 to 1. The horizontal axis is labeled "I" and ranges from -1 to 1. The plot shows a 16-QAM constellation with 16 distinct points arranged in a 4x4 grid.

On the right side, there is a "Statistic Count" section with a progress bar showing "20 / 20". Below this, the "Out of Tolerance" is "0.00 %", "Detected Modulation" is "16-QAM", "Detected Channel Type" is "PUSCH", and "View Filter Throughput" is "100.0 %".

At the bottom left, there is a "PS" icon and a "Connection Established" status. The "RRC State" is "Connected".

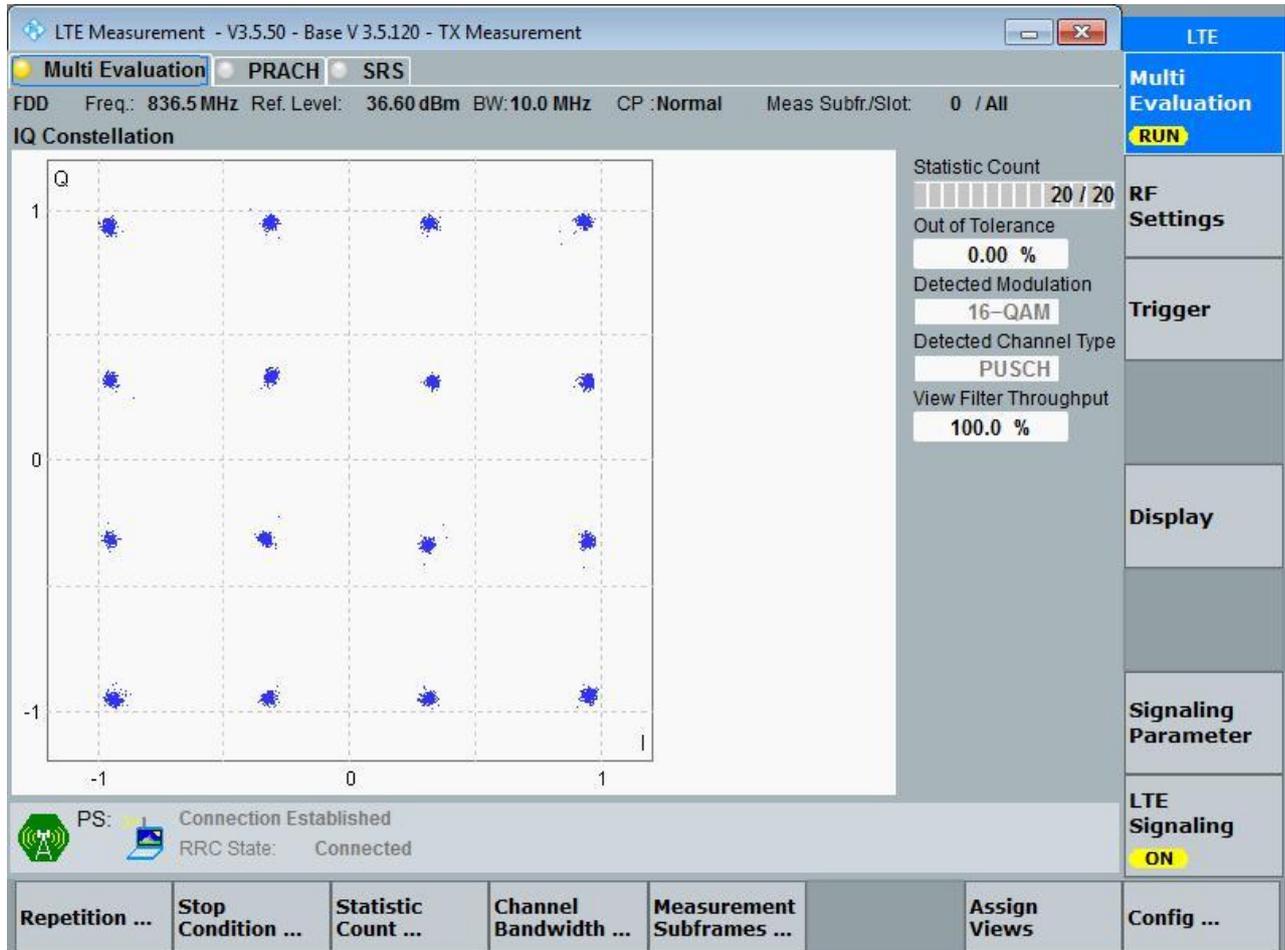
The bottom of the interface has a navigation bar with buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

On the far right, there is a vertical sidebar with several buttons: "LTE", "Multi Evaluation", "RUN", "RF Settings", "Trigger", "Display", "Signaling Parameter", "LTE Signaling", and "ON".

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3.1.1.8 Test Mode = LTE /TM2 10MHz

3.1.1.8.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 5	TM1/1.4MHz	LCH	1.10	1.28	PASS
		MCH	1.09	1.27	PASS
		HCH	1.10	1.27	PASS
	TM2/1.4MHz	LCH	1.10	1.26	PASS
		MCH	1.10	1.28	PASS
		HCH	1.10	1.27	PASS
	TM1/ 3MHz	LCH	2.69	2.91	PASS
		MCH	2.69	2.91	PASS
		HCH	2.69	2.93	PASS
	TM2/ 3MHz	LCH	2.69	2.93	PASS
		MCH	2.69	2.93	PASS
		HCH	2.68	2.93	PASS
	TM1/ 5MHz	LCH	4.50	4.98	PASS
		MCH	4.50	4.97	PASS
		HCH	4.49	4.98	PASS
	TM2/ 5MHz	LCH	4.50	4.99	PASS
		MCH	4.49	4.95	PASS
		HCH	4.49	5.01	PASS
	TM1/10MHz	LCH	8.95	9.69	PASS
		MCH	8.97	9.79	PASS
		HCH	8.95	9.85	PASS
	TM2/ 10MHz	LCH	8.97	9.79	PASS
		MCH	8.95	9.67	PASS
		HCH	8.95	9.77	PASS

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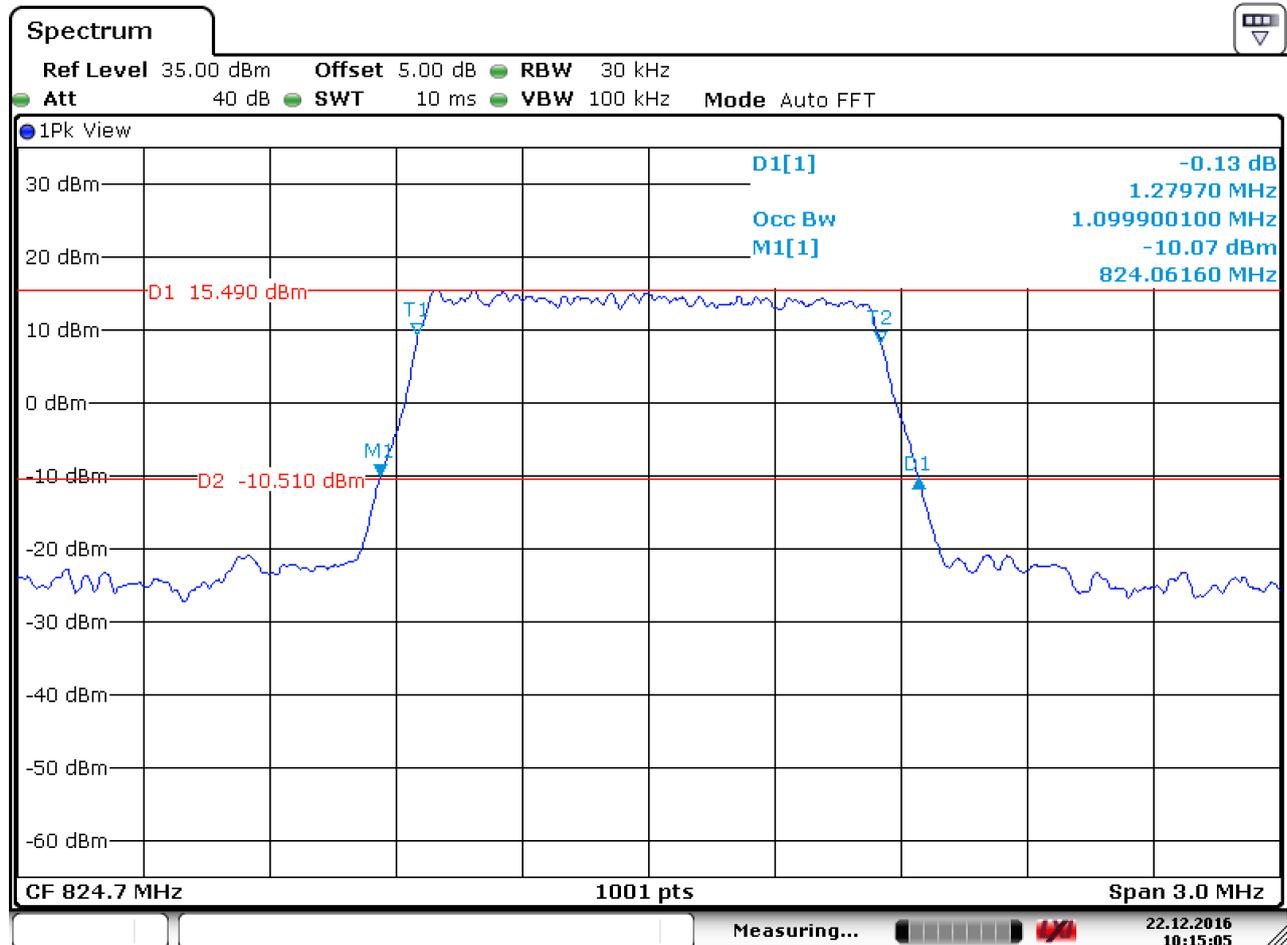


4.1 For LTE

4.1.1 Test Band = LTE band5

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

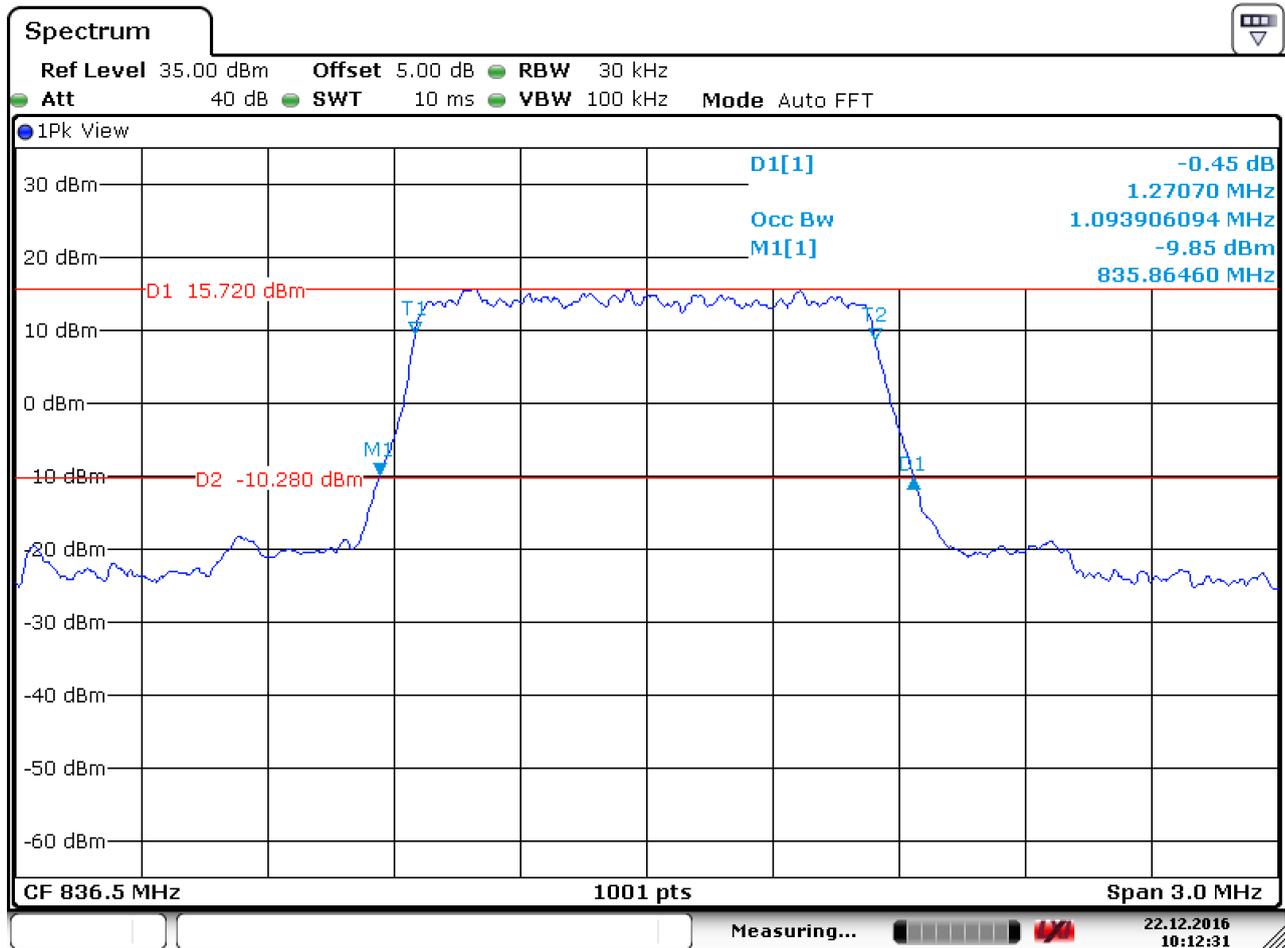
4.1.1.1.1 Test Channel = LCH



Date: 22.DEC.2016 10:15:05



4.1.1.1.2 Test Channel = MCH

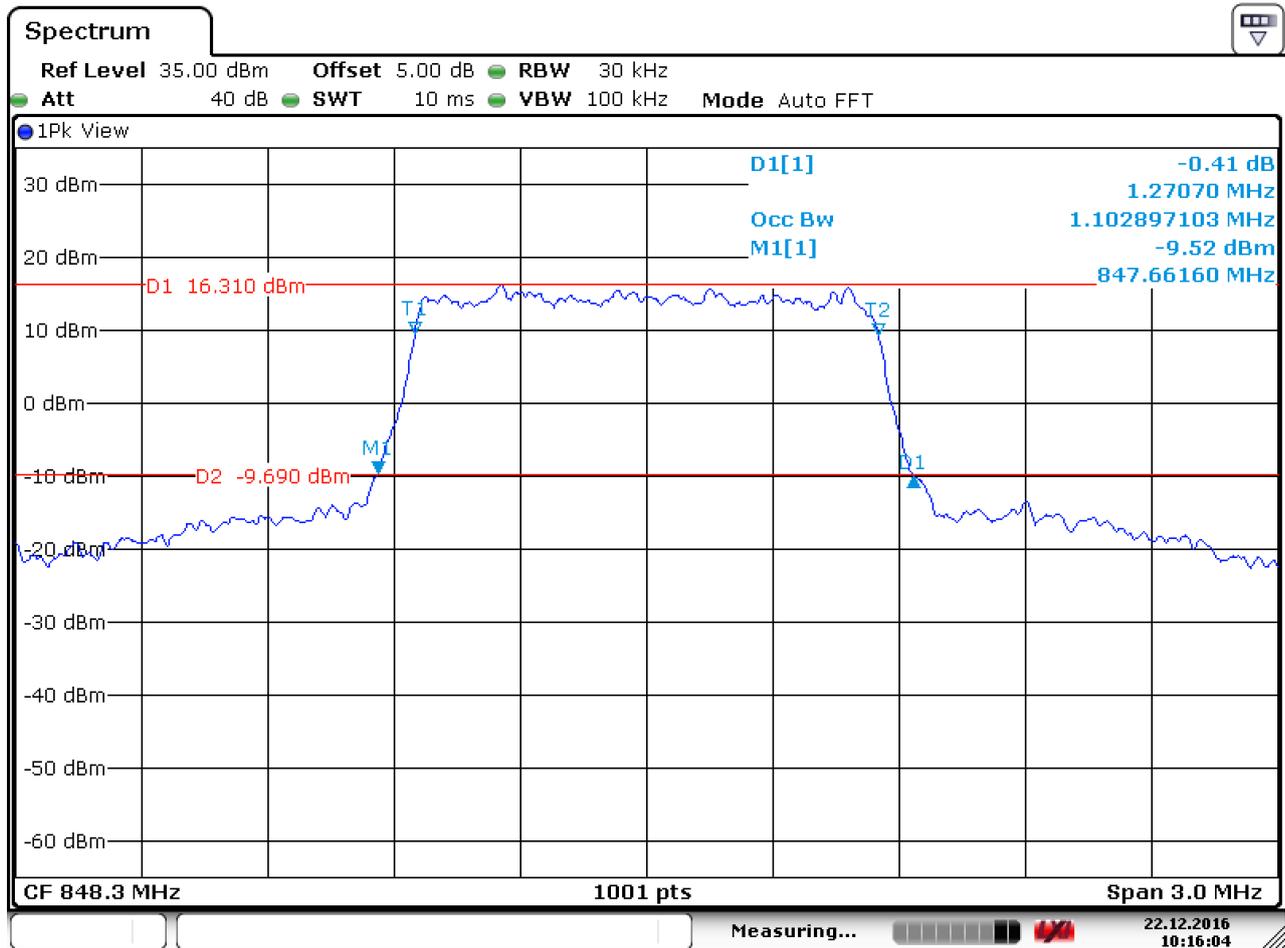


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4.1.1.1.3 Test Channel = HCH



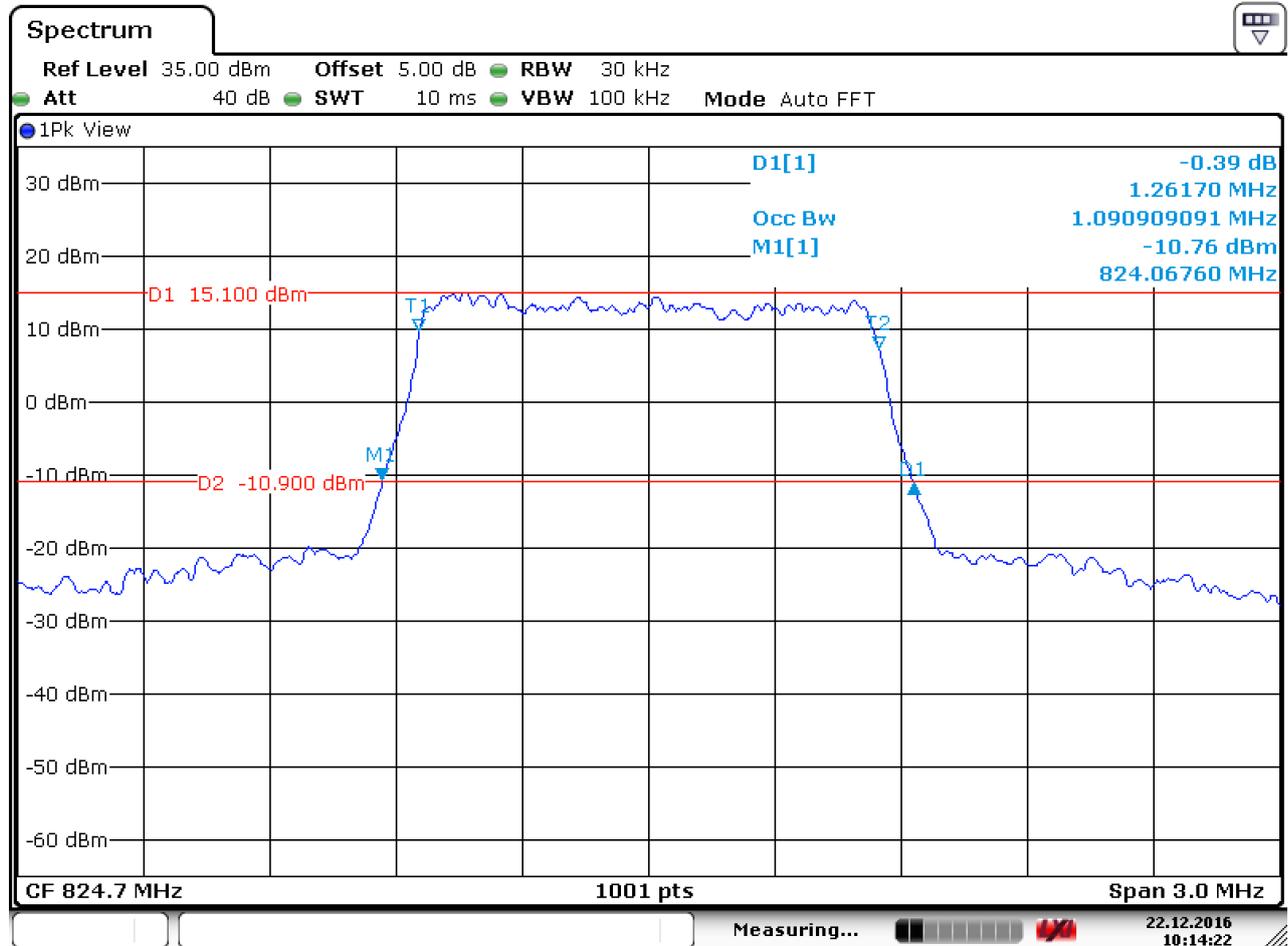
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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

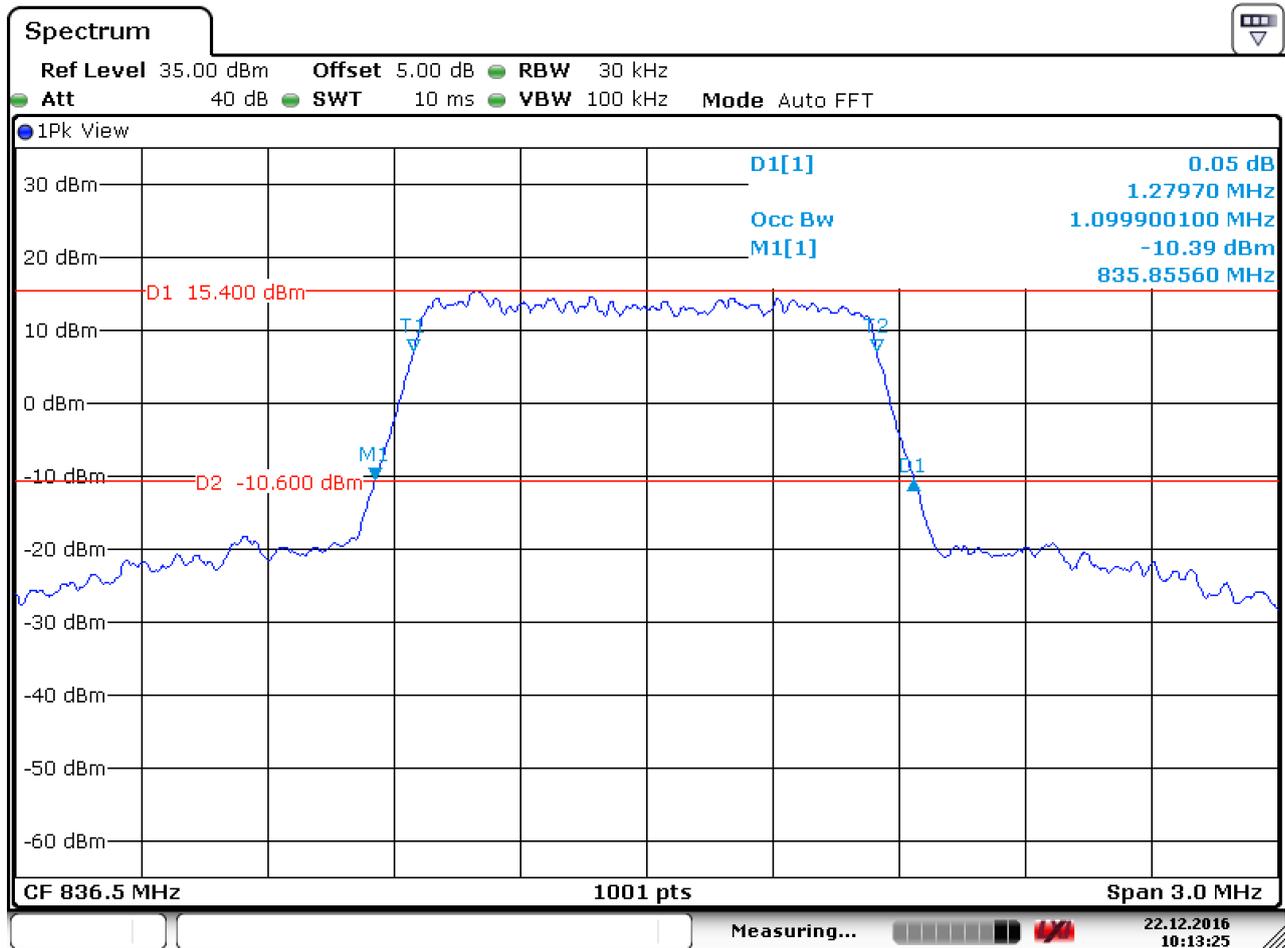
4.1.1.2.1 Test Channel = LCH



Date: 22.DEC.2016 10:14:23



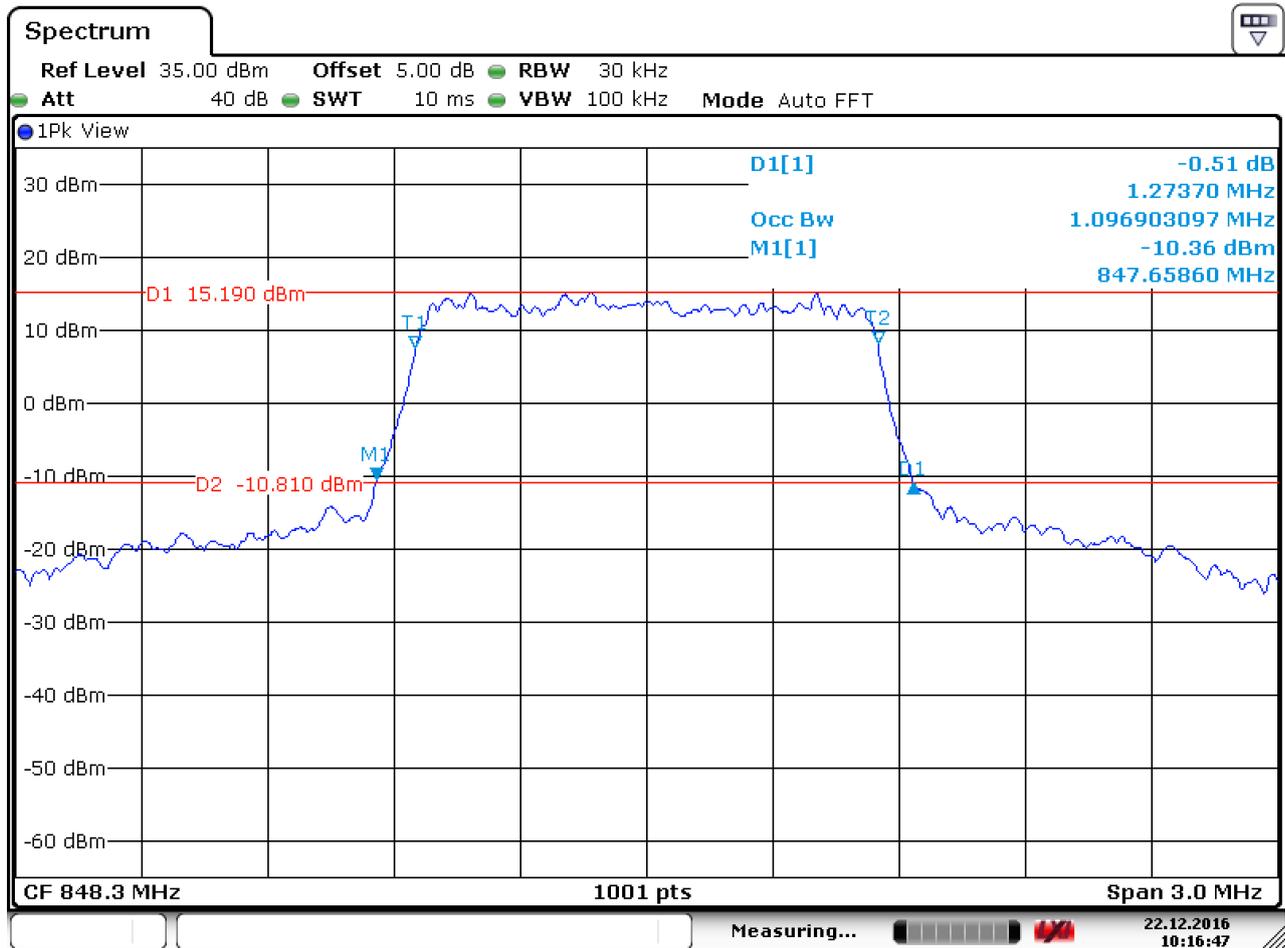
4.1.1.2.2 Test Channel = MCH



Date: 22.DEC.2016 10:13:25



4.1.1.2.3 Test Channel = HCH



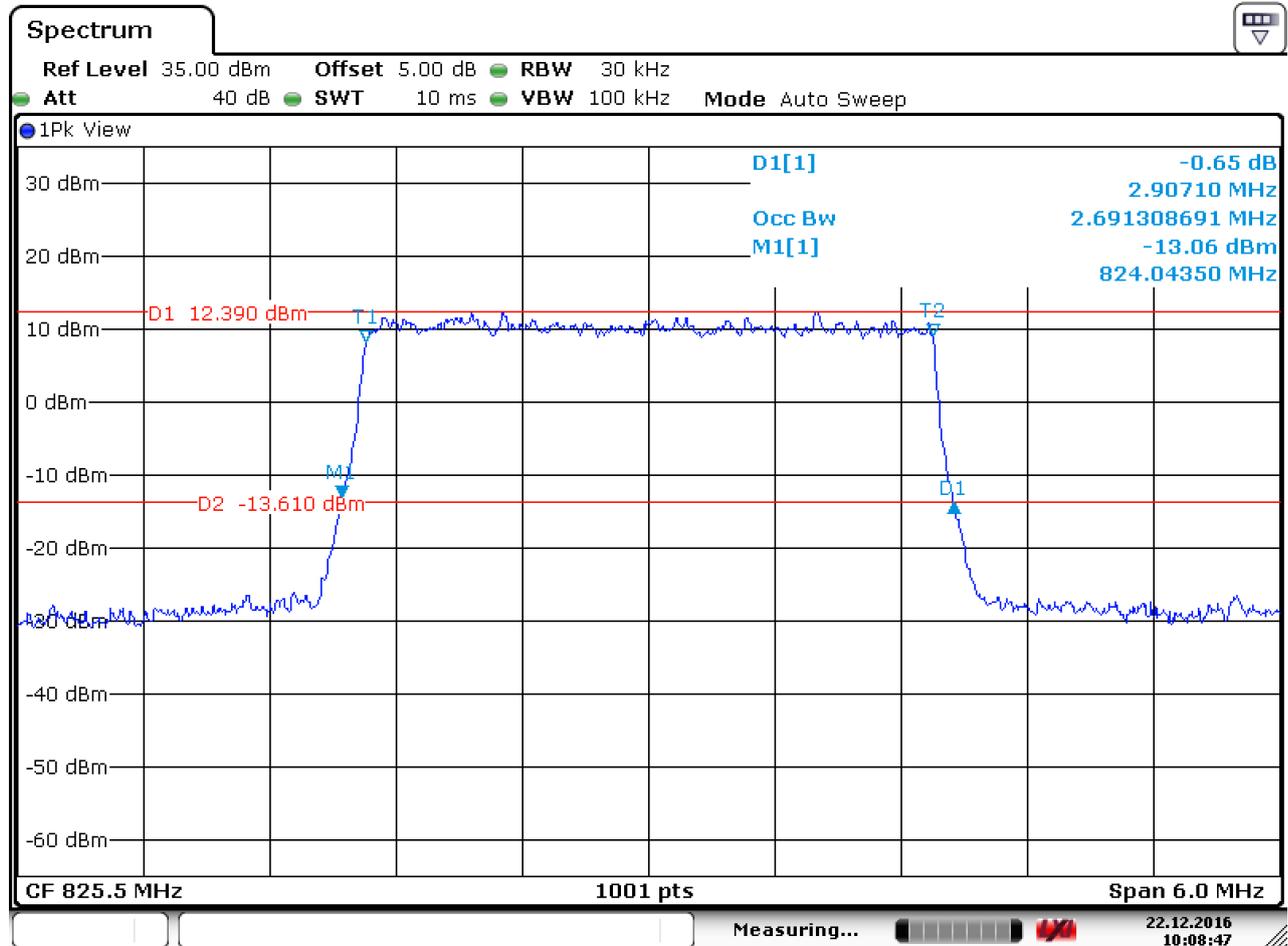
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4.1.1.3 Test Mode = LTE/TM1 3MHz

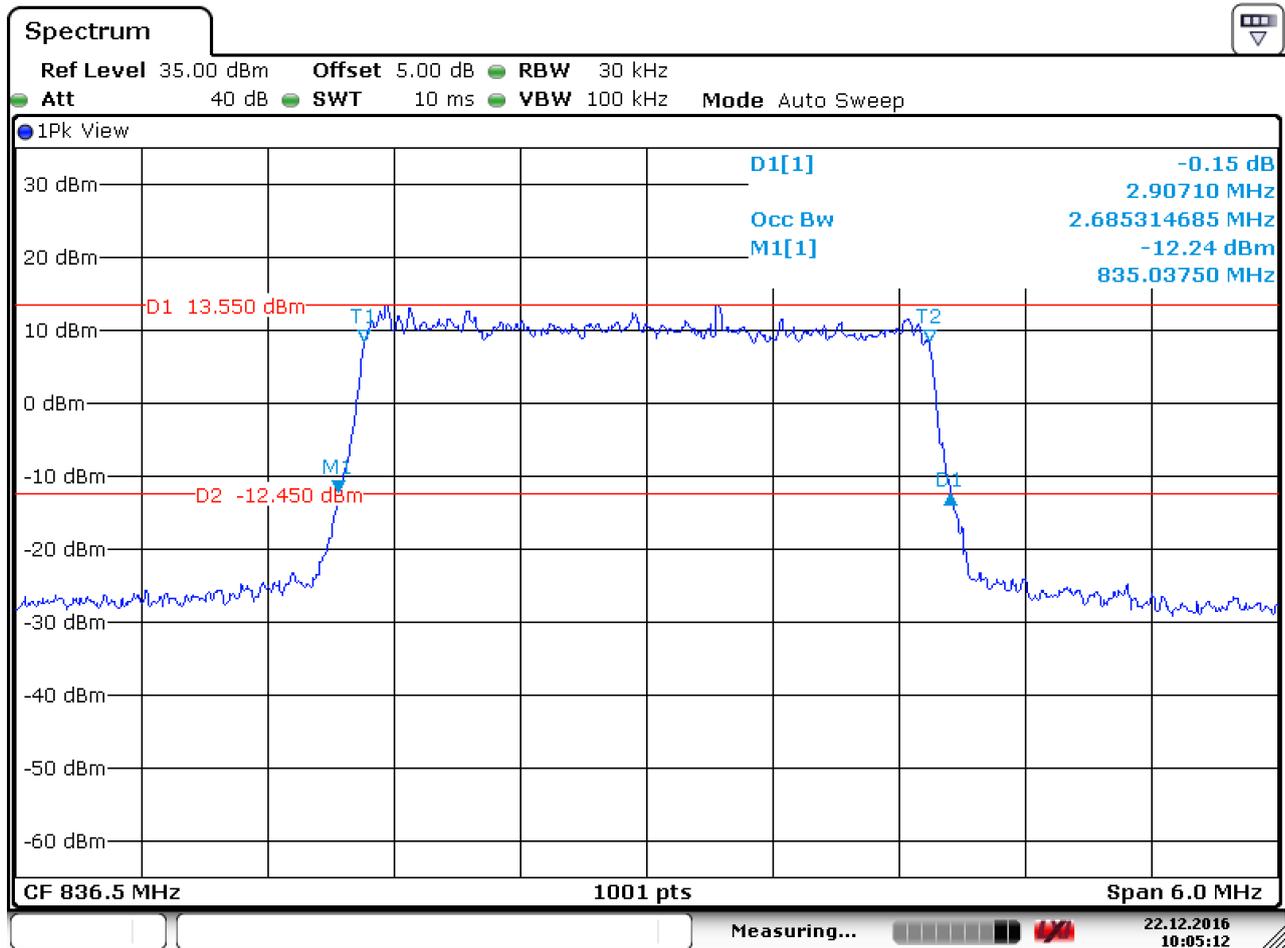
4.1.1.3.1 Test Channel = LCH



Date: 22.DEC.2016 10:08:47



4.1.1.3.2 Test Channel = MCH

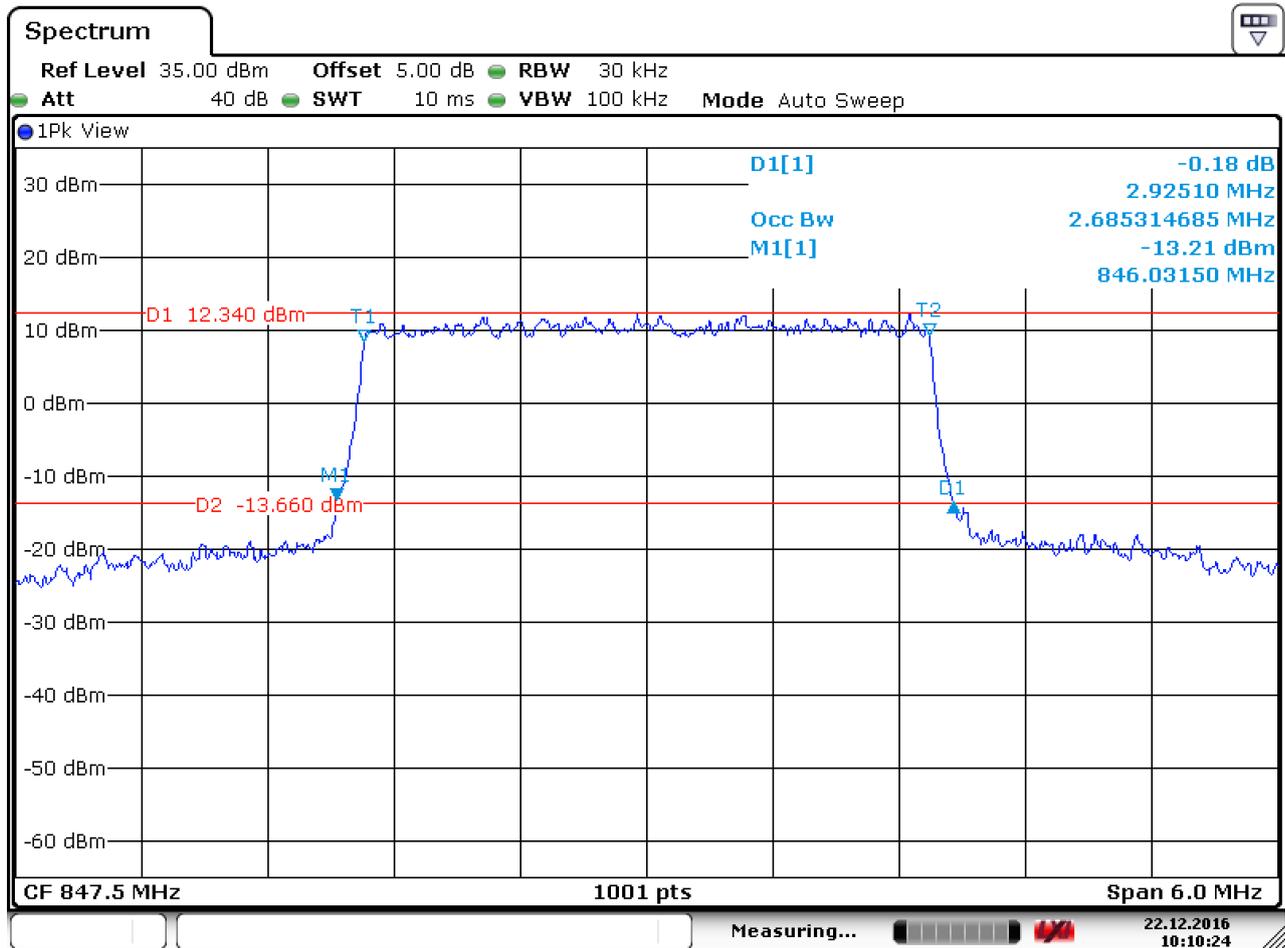


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4.1.1.3.3 Test Channel = HCH



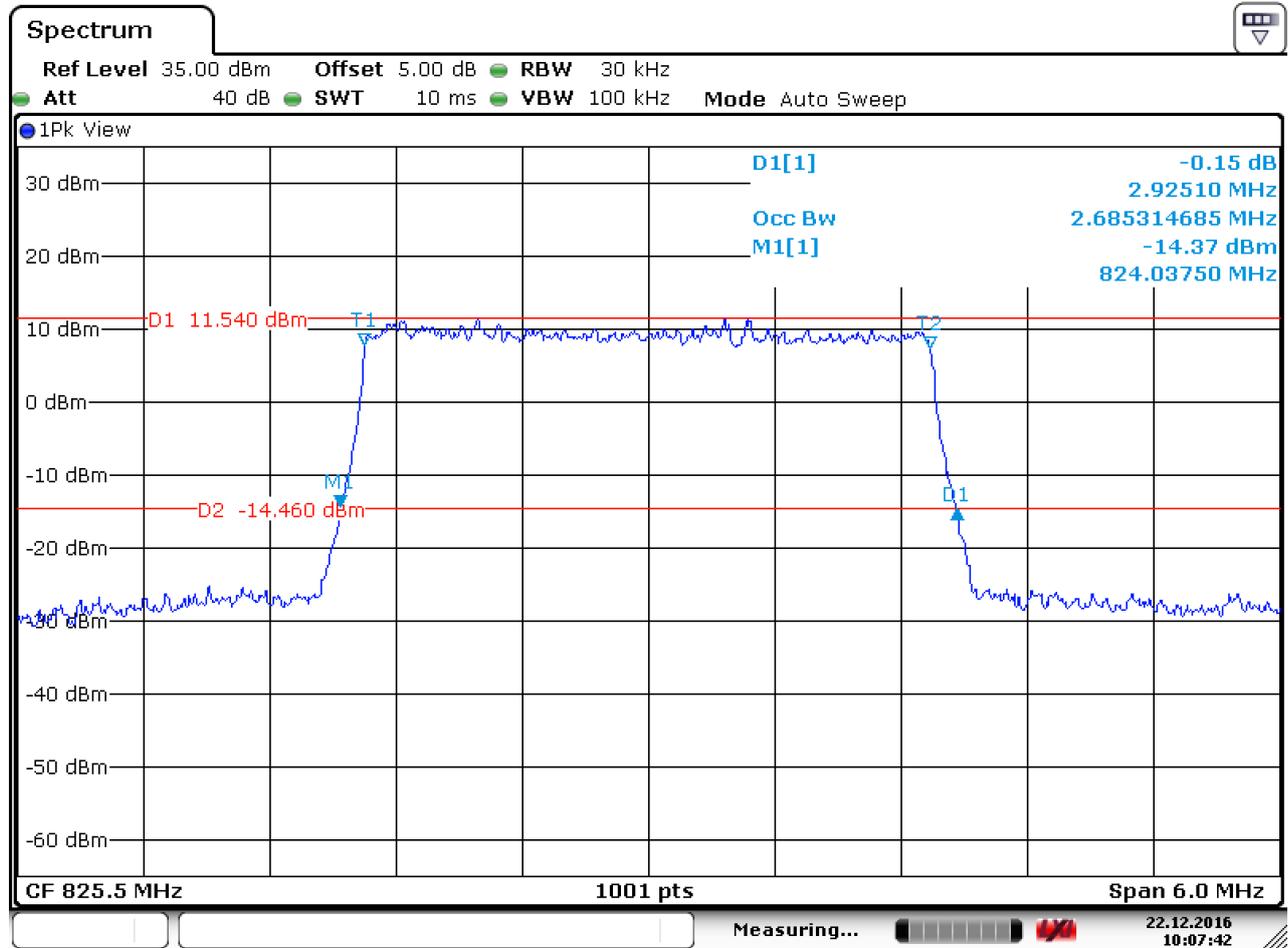
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4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH

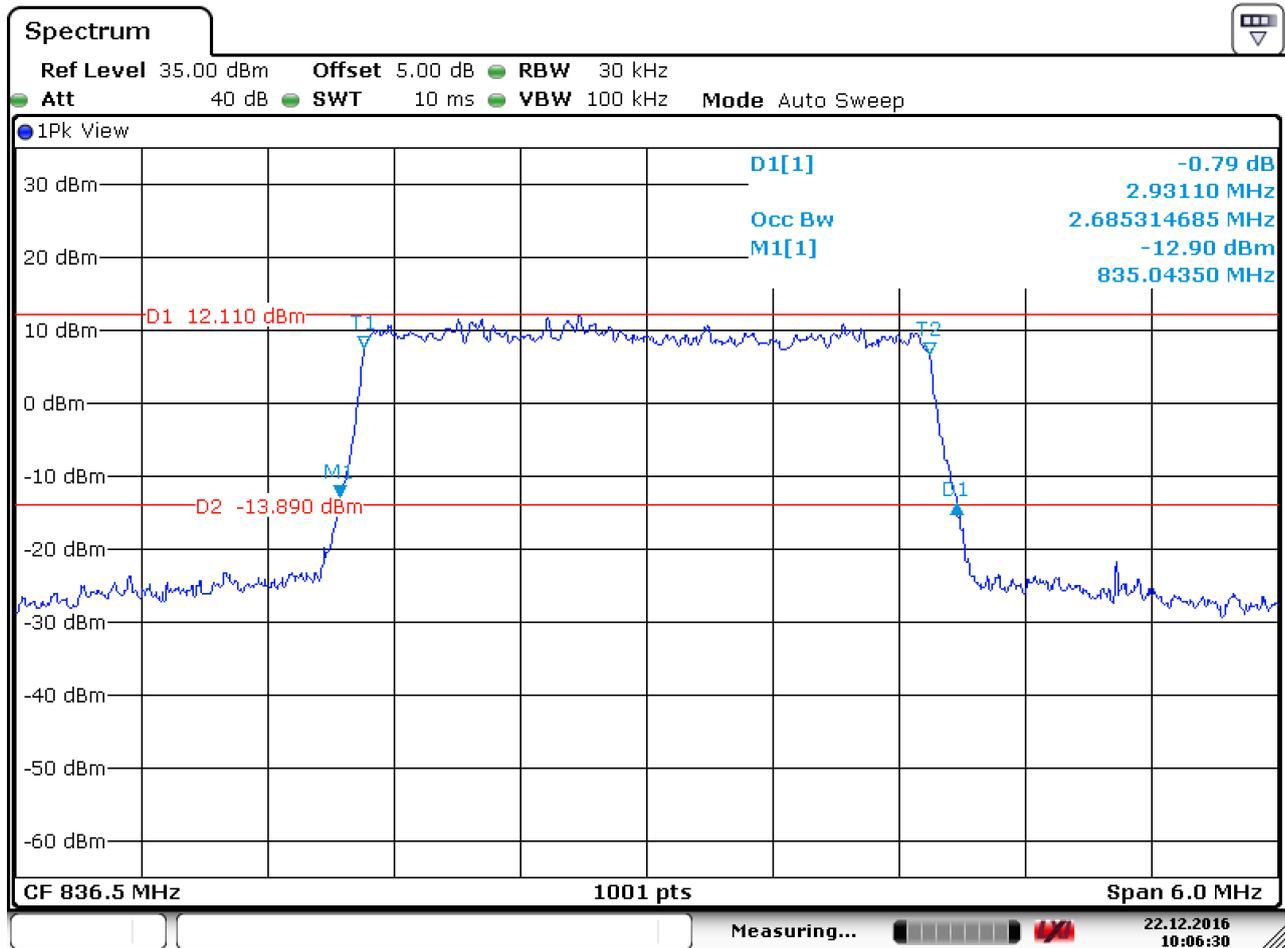


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4.1.1.4.2 Test Channel = MCH

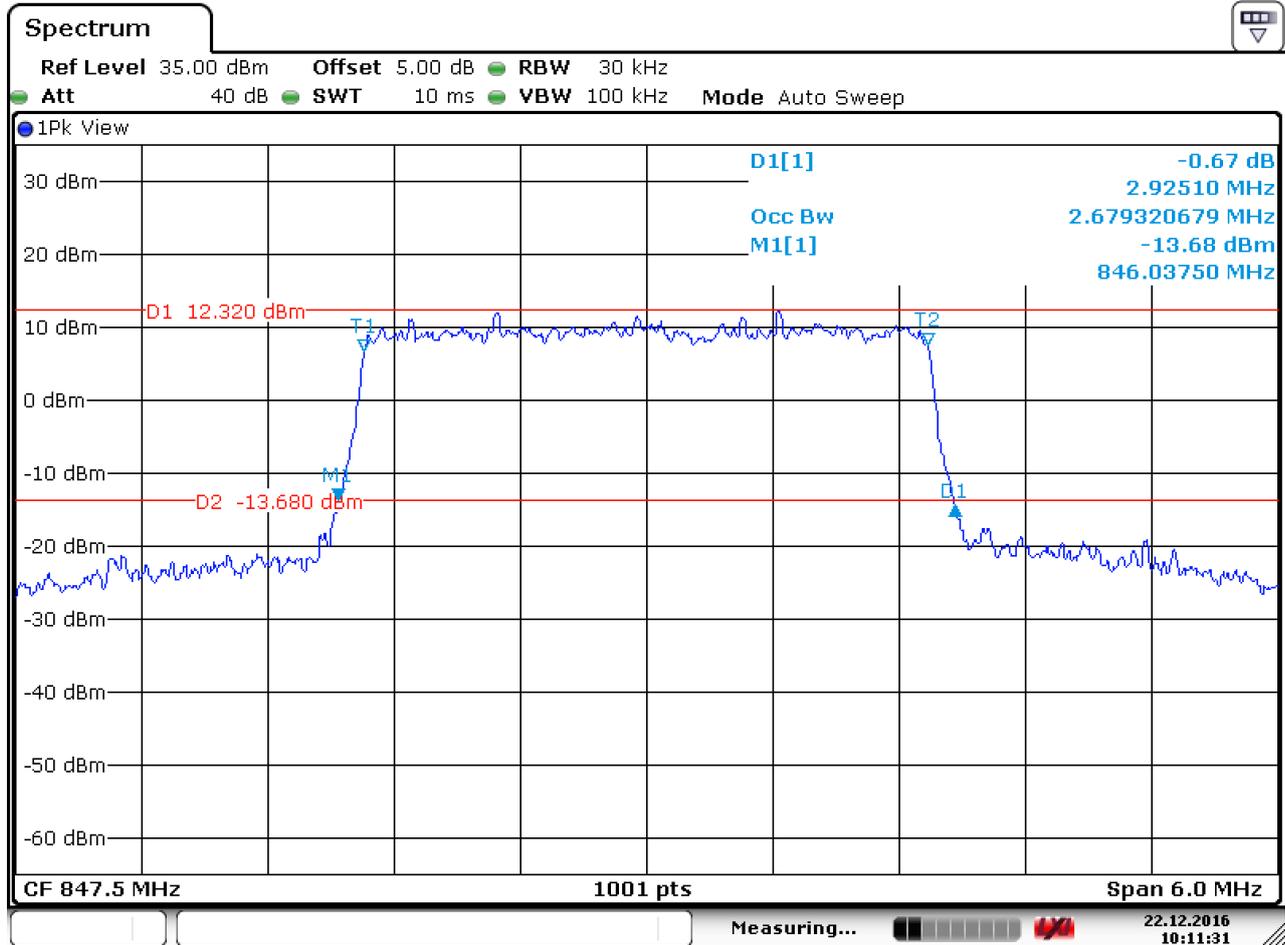


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4.1.1.4.3 Test Channel = HCH



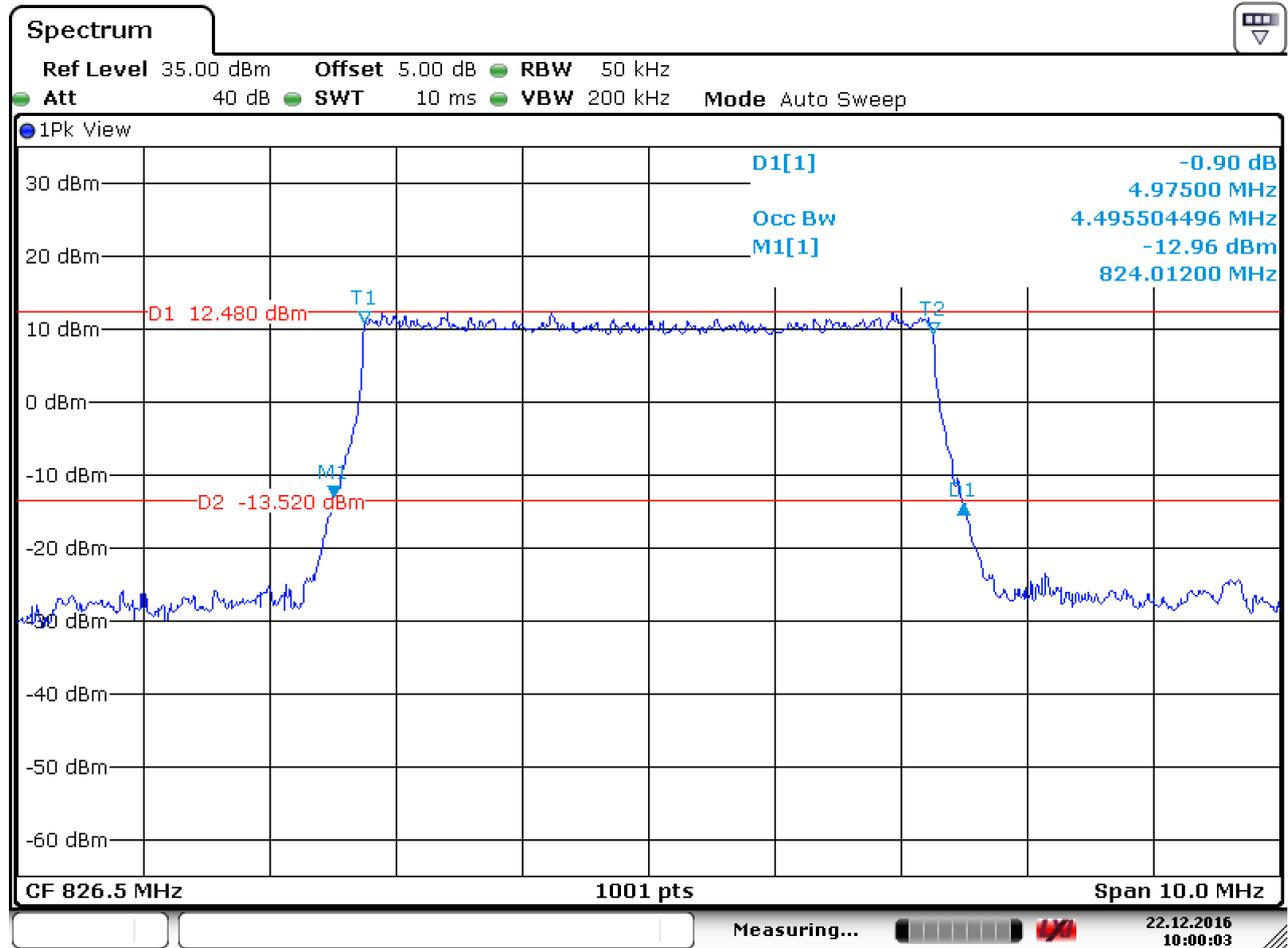
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4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH

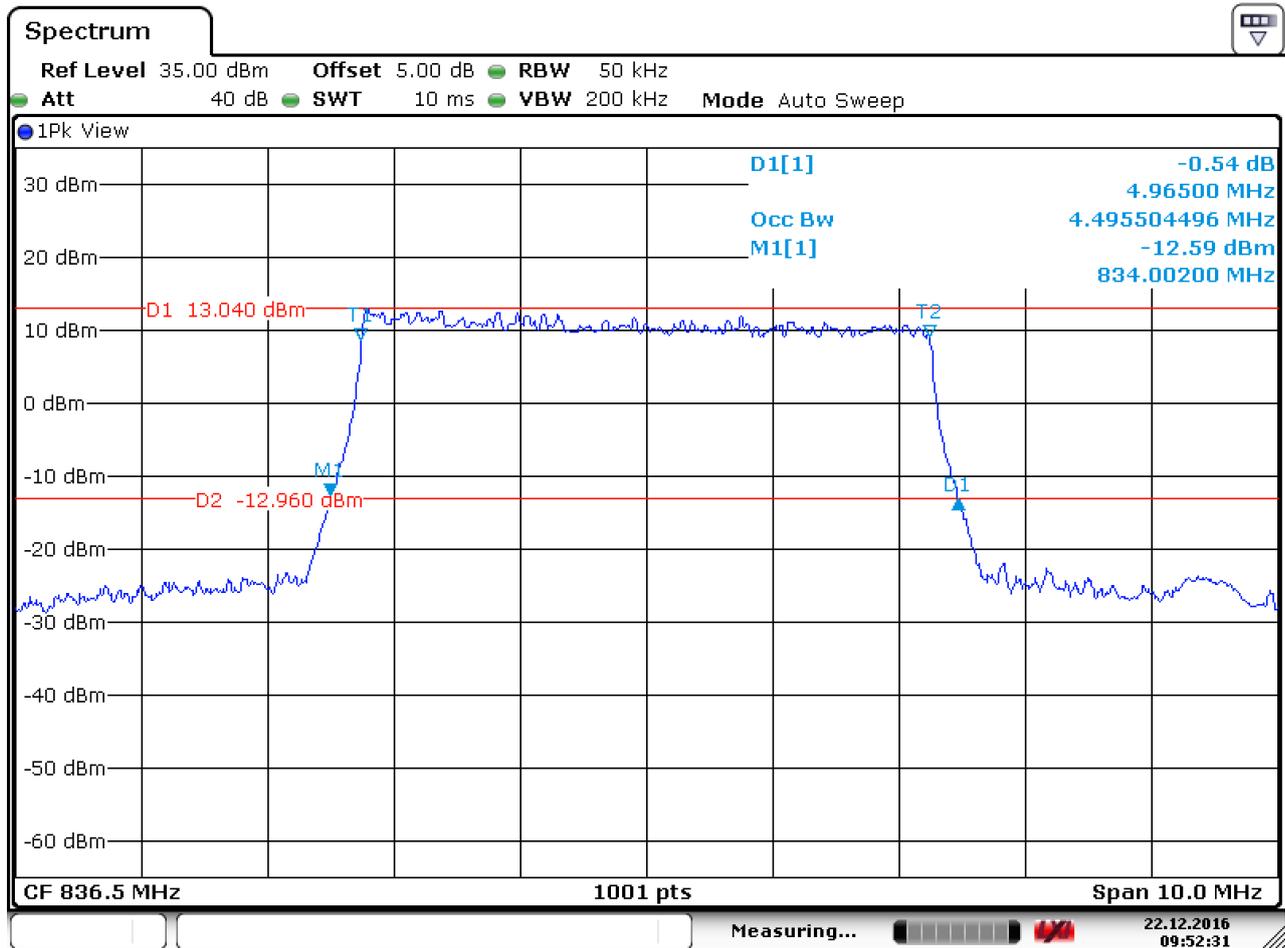


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4.1.1.5.2 Test Channel = MCH

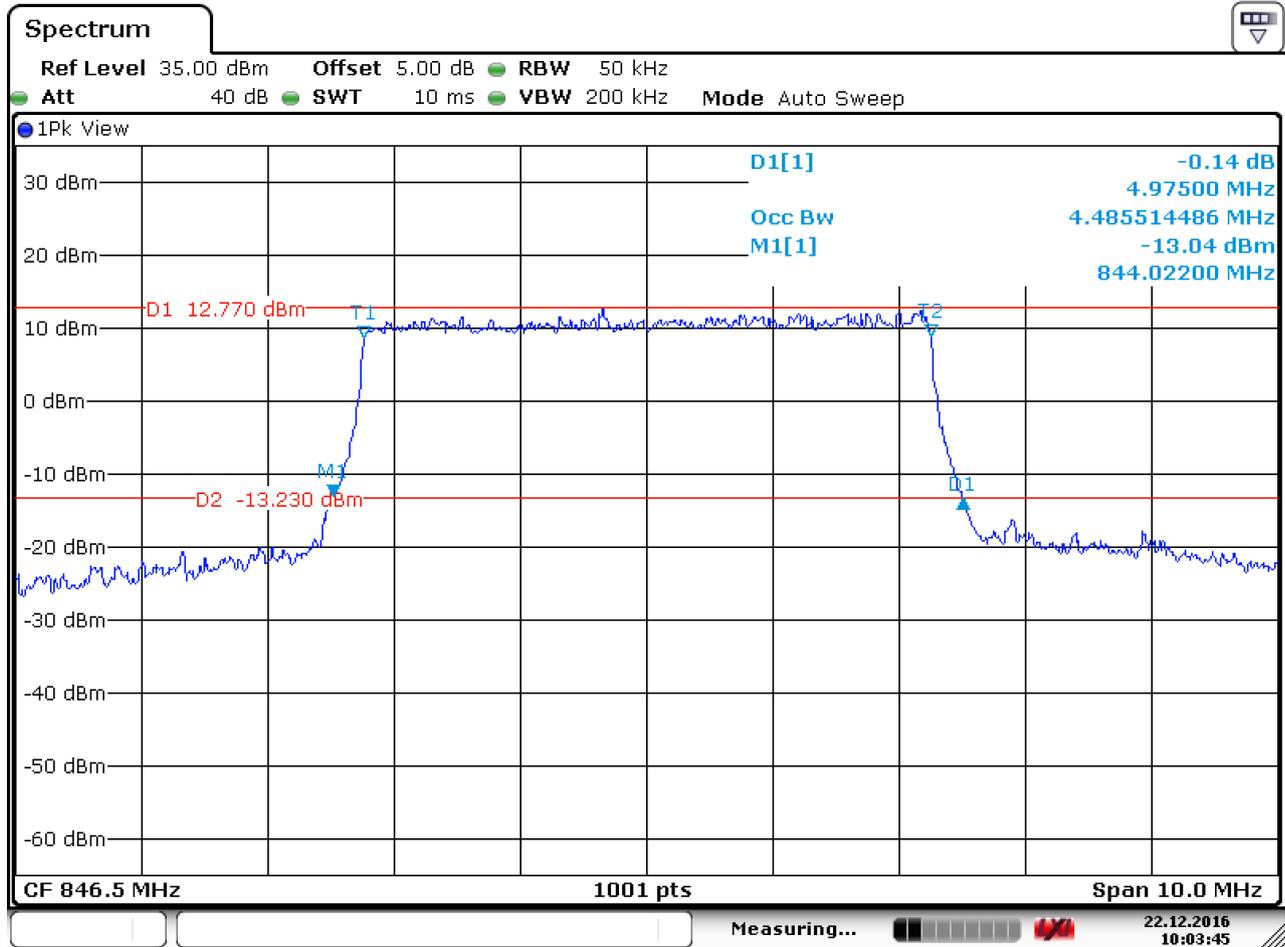


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4.1.1.5.3 Test Channel = HCH



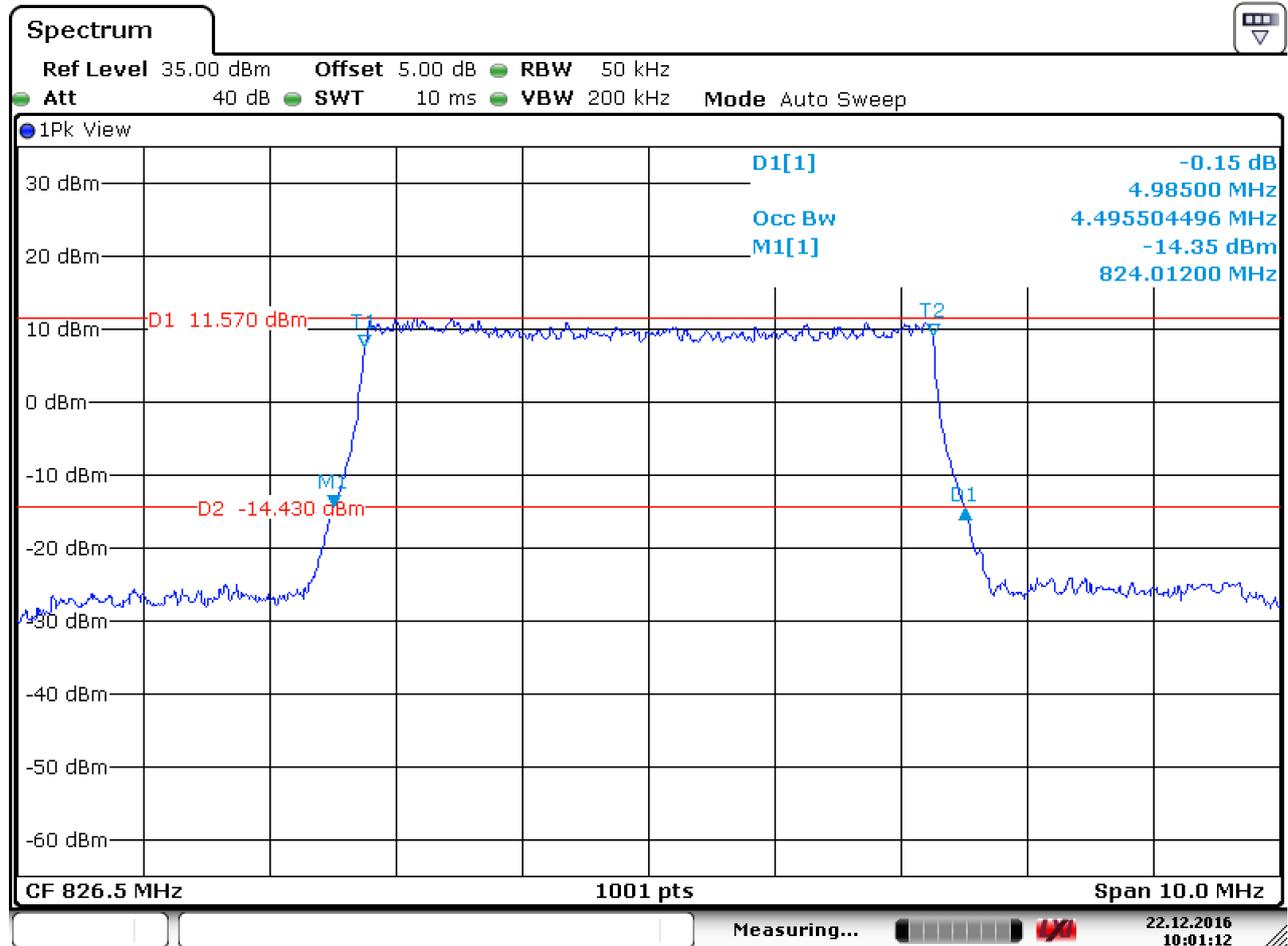
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4.1.1.6 Test Mode = LTE/TM2 5MHz

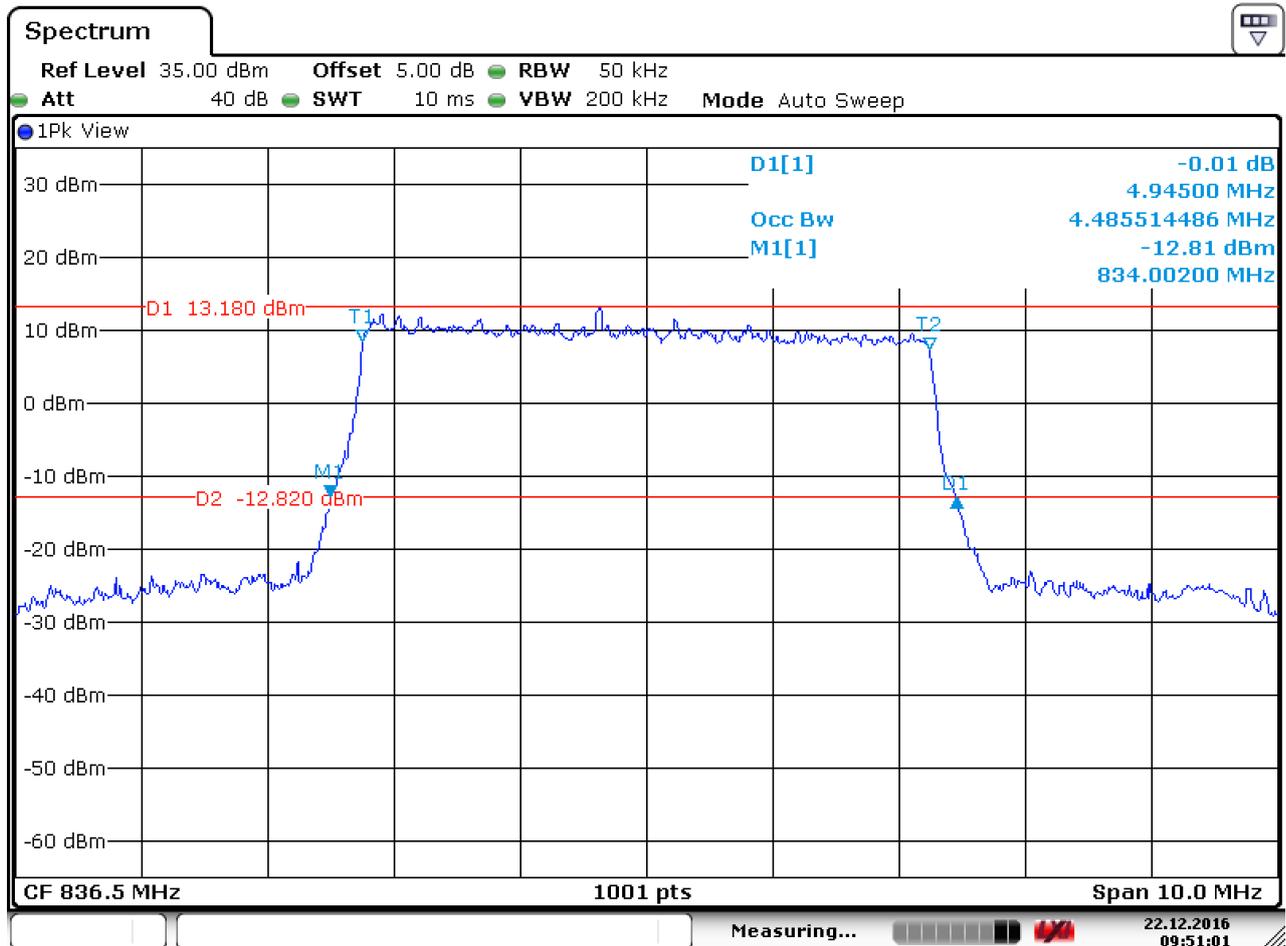
4.1.1.6.1 Test Channel = LCH



Date: 22.DEC.2016 10:01:12



4.1.1.6.2 Test Channel = MCH

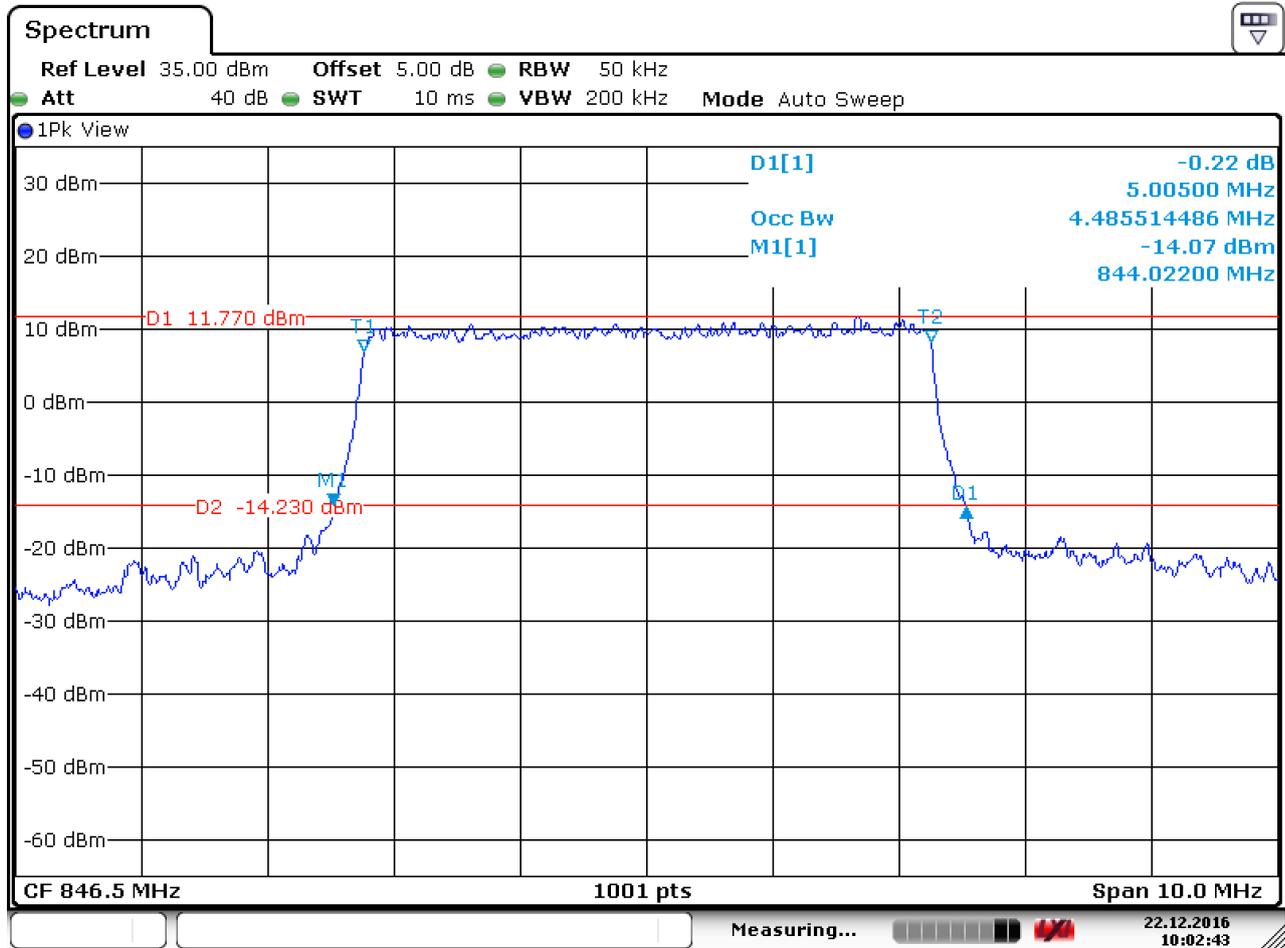


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4.1.1.6.3 Test Channel = HCH



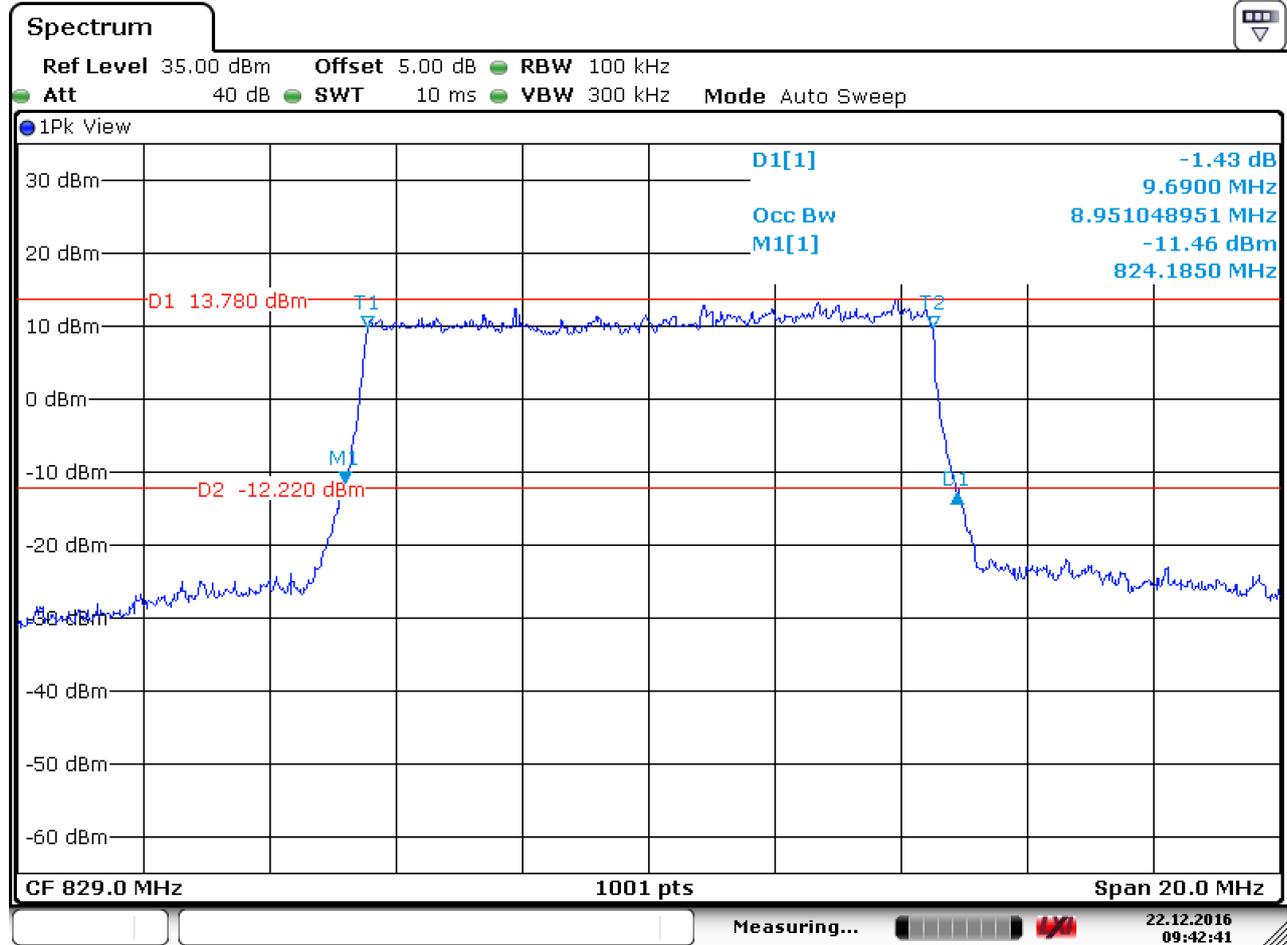
Date: 22.DEC.2016 10:02:43

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4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH

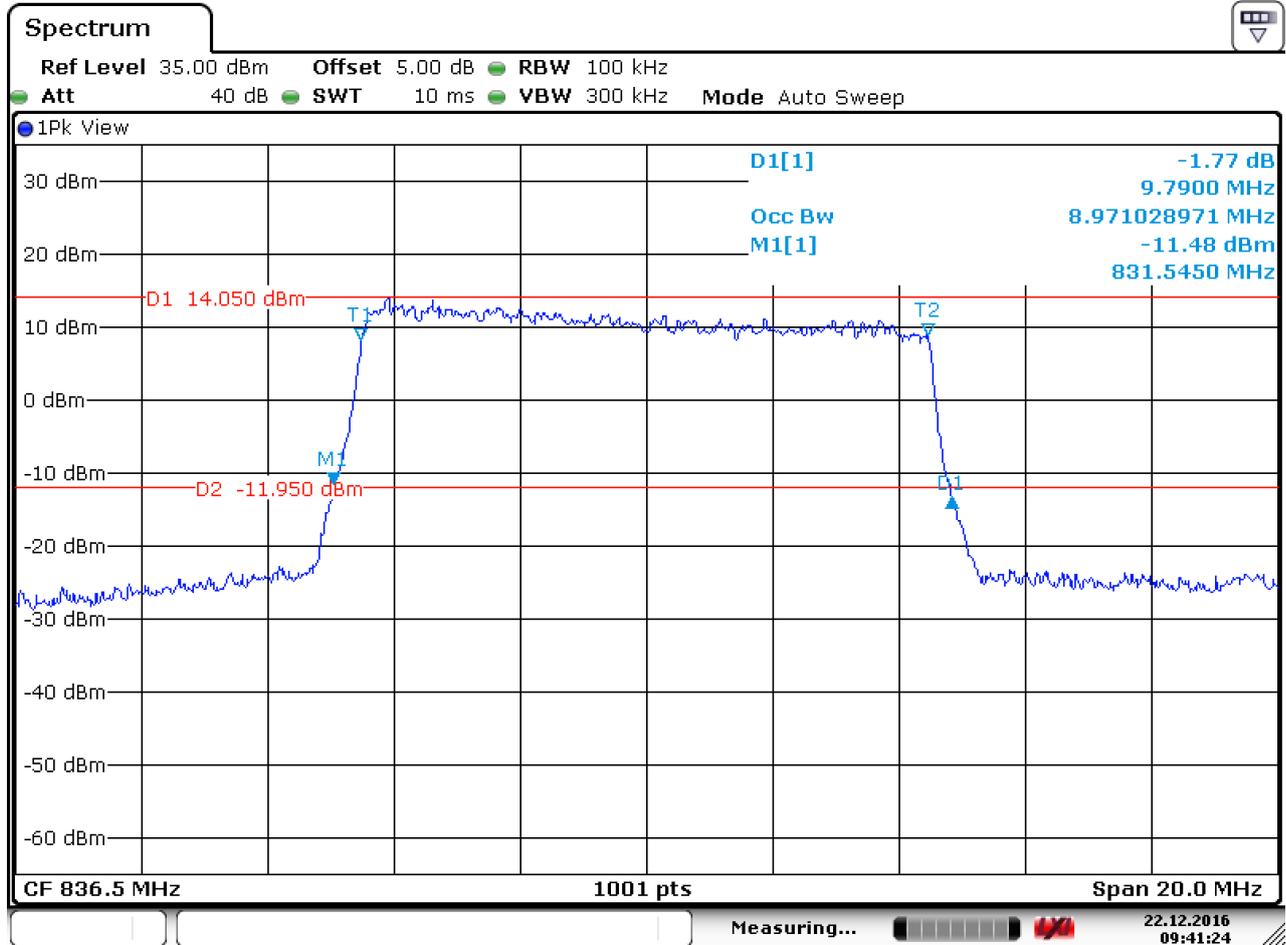


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4.1.1.7.2 Test Channel = MCH

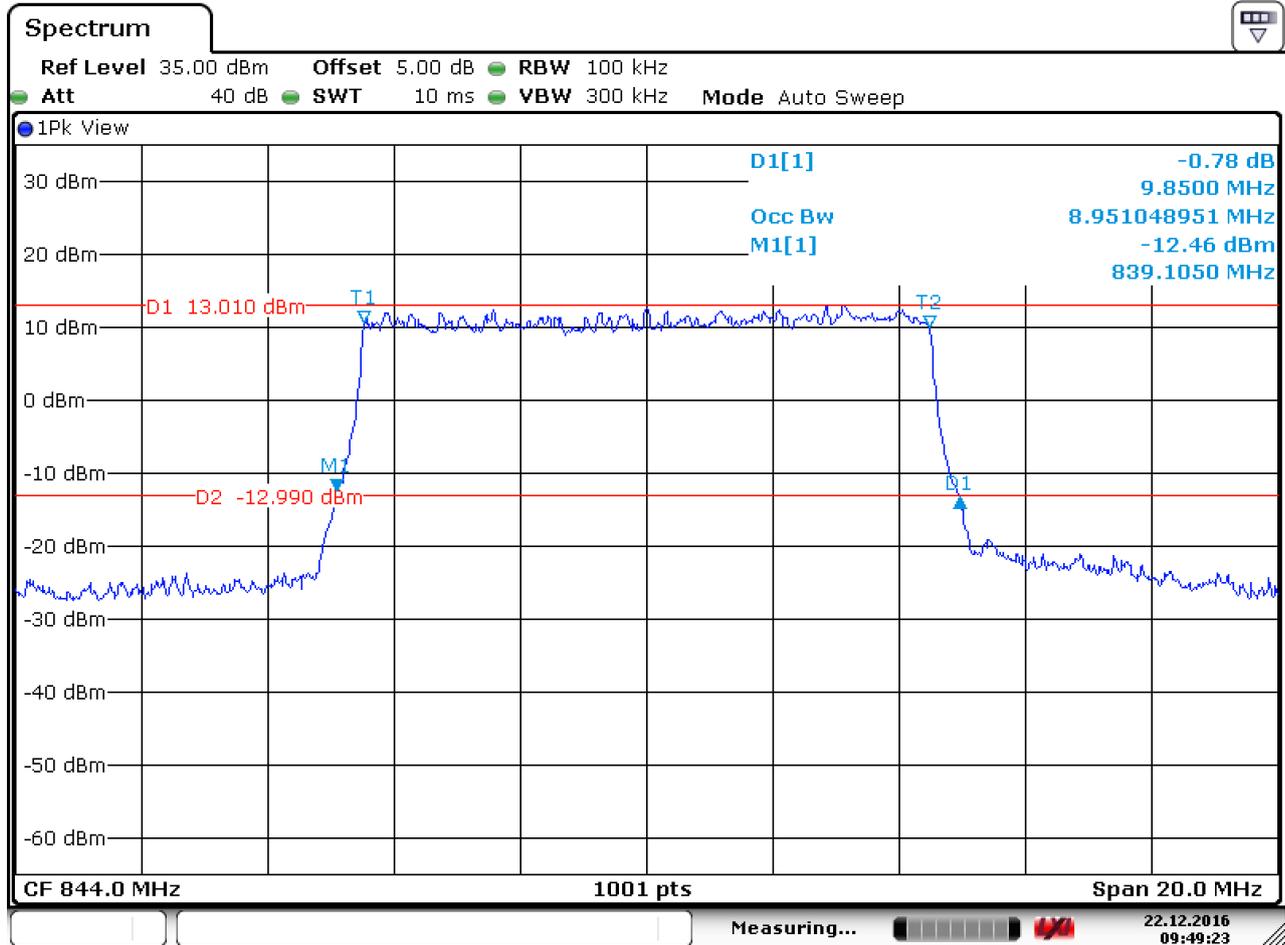


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4.1.1.7.3 Test Channel = HCH



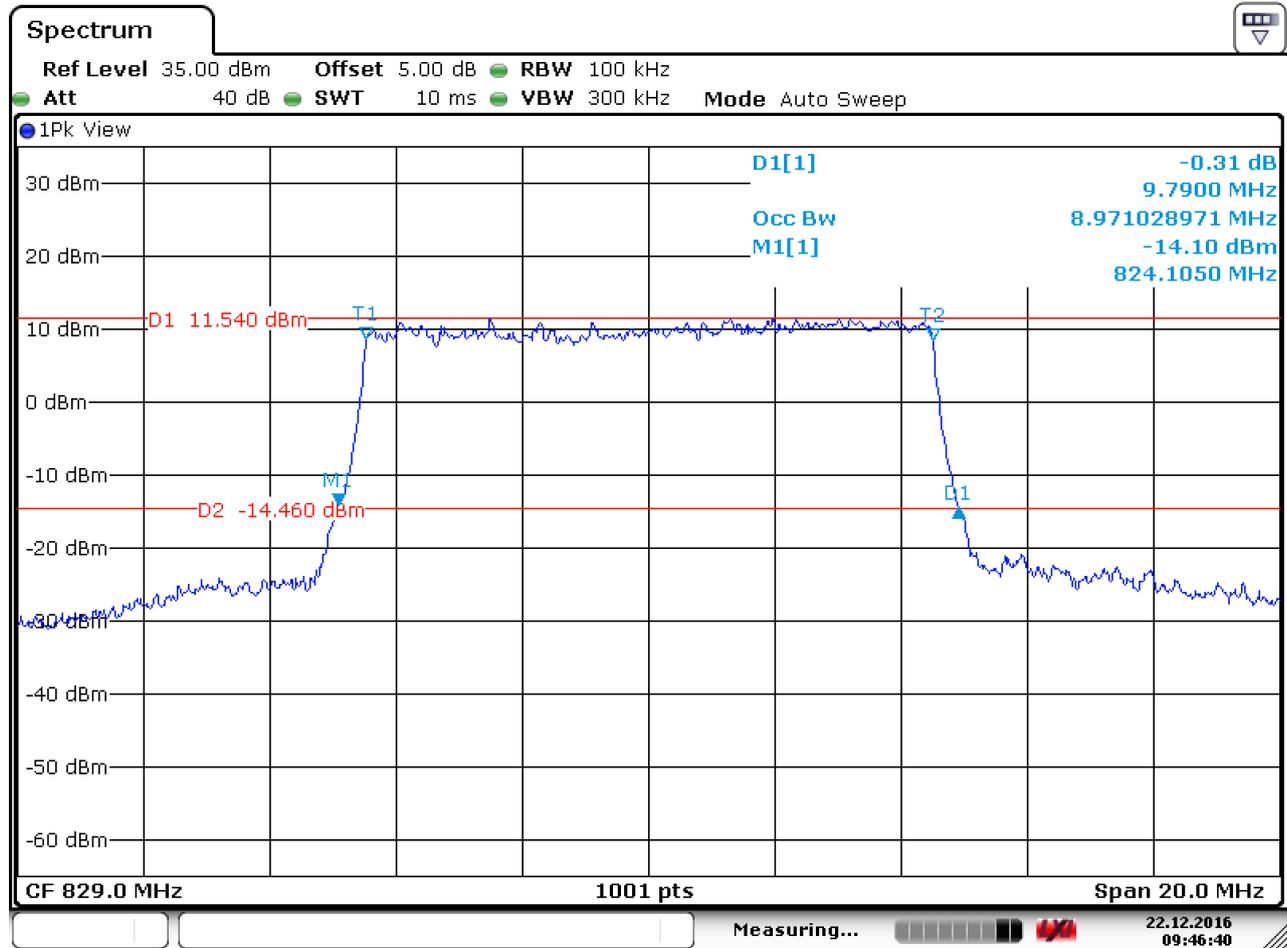
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4.1.1.8 Test Mode = LTE/TM2 10MHz

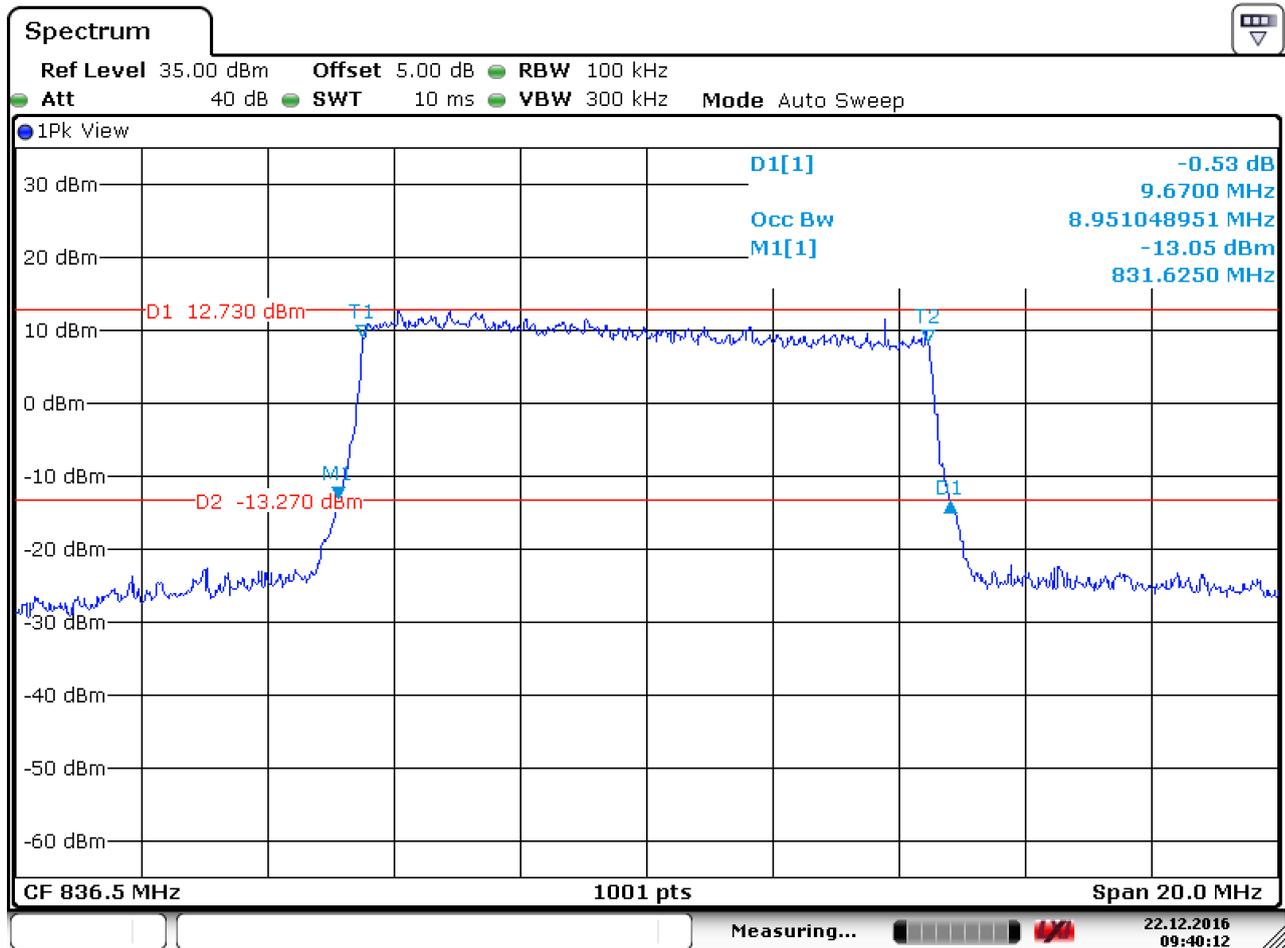
4.1.1.8.1 Test Channel = LCH



Date: 22.DEC.2016 09:46:40



4.1.1.8.2 Test Channel = MCH

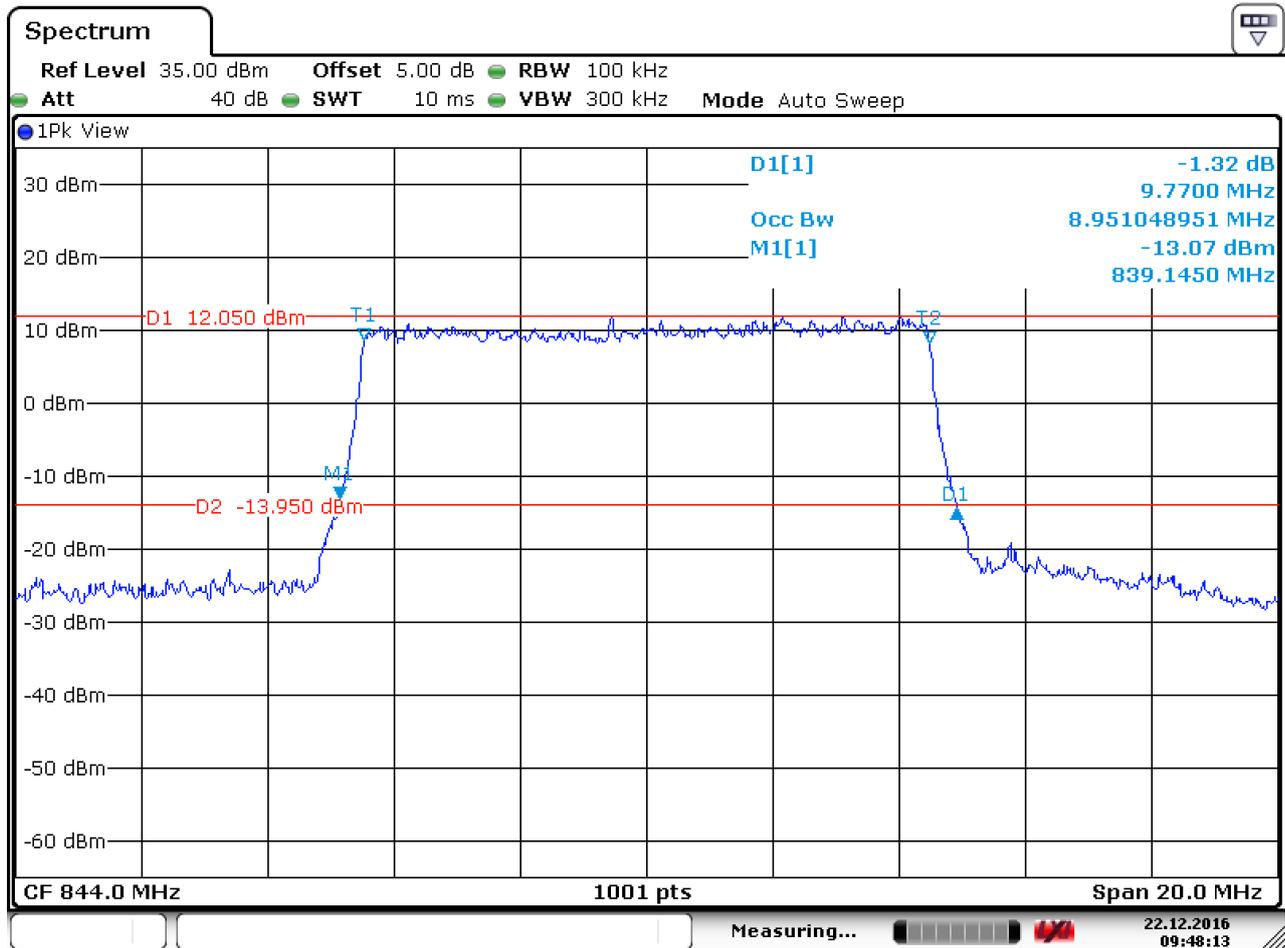


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4.1.1.8.3 Test Channel = HCH



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5 Band Edges Compliance

Part I –

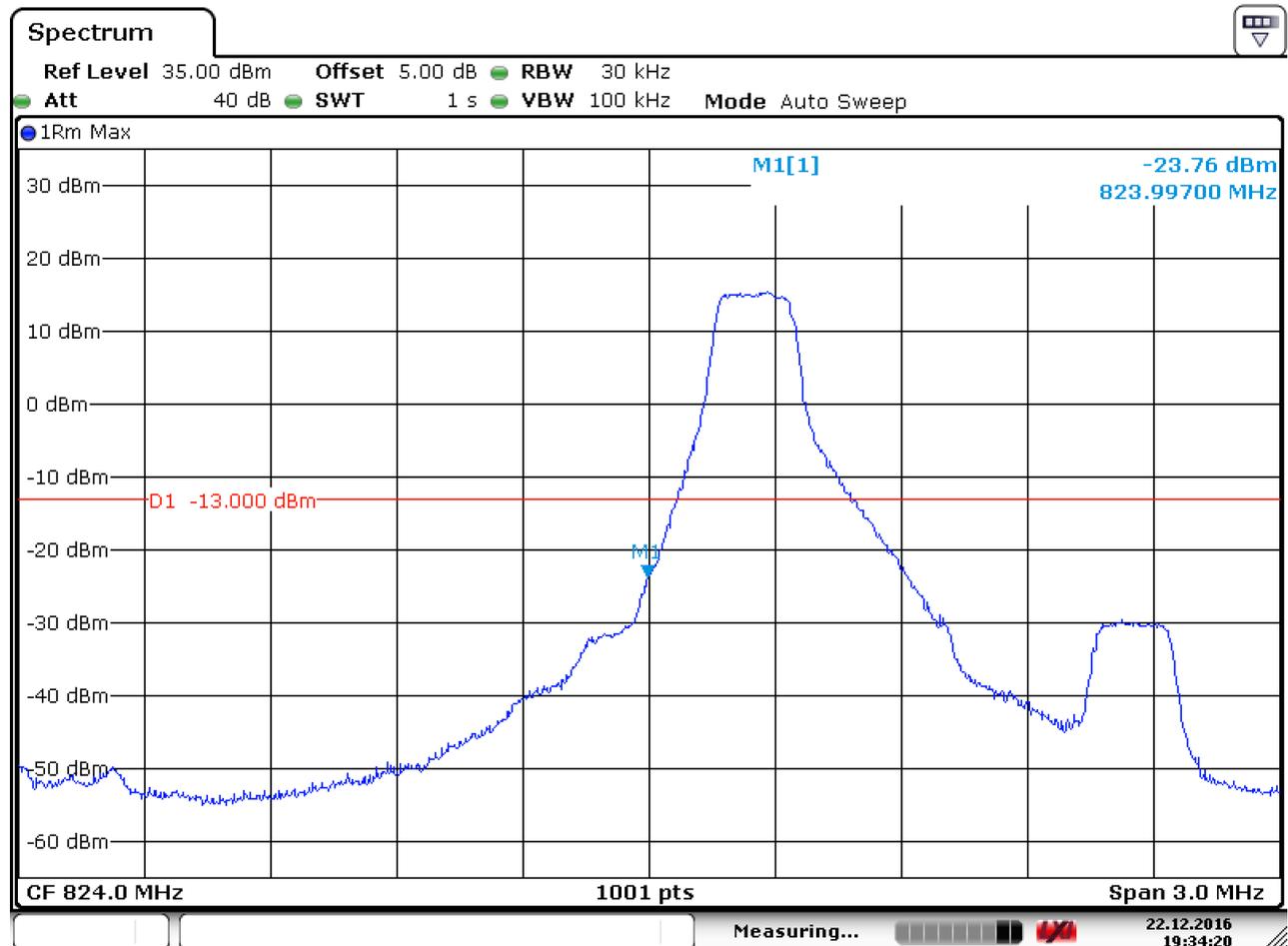
5.1 For LTE

5.1.1 Test Band = LTE band5

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

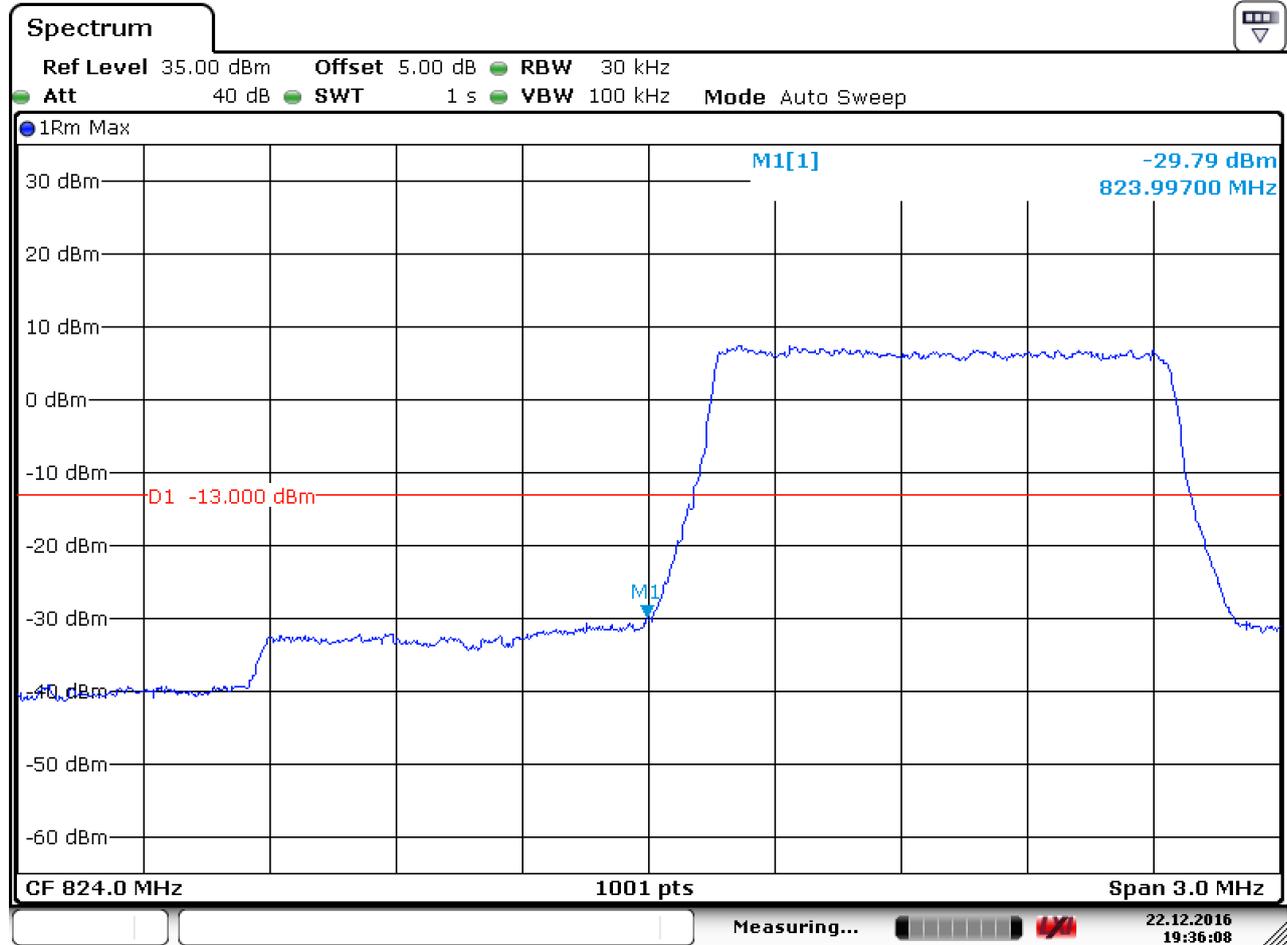
5.1.1.1.1.1 Test RB=1RB



Date: 22.DEC.2016 19:34:20



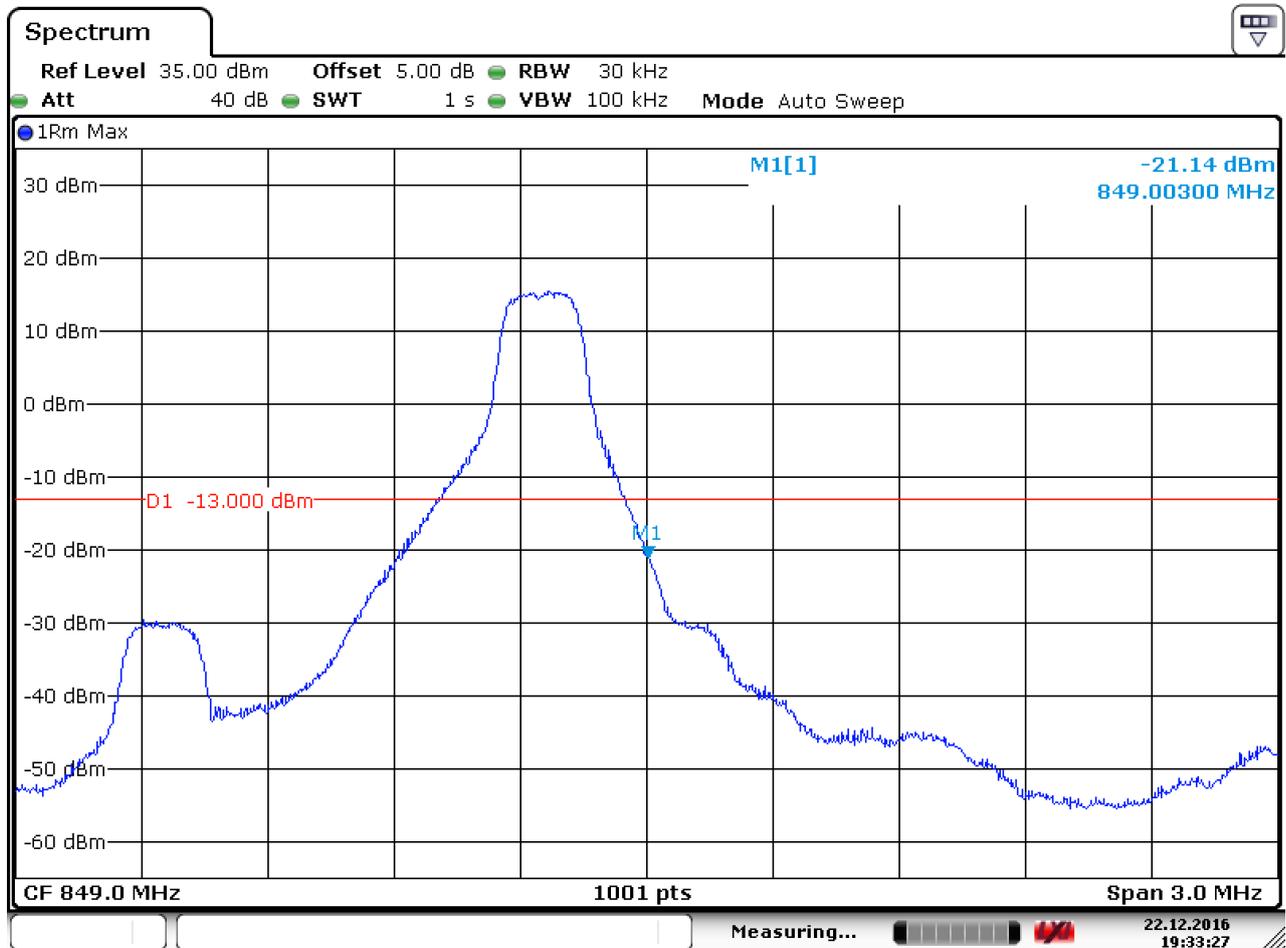
5.1.1.1.1.2 Test RB=6RB



Date: 22.DEC.2016 19:36:09

5.1.1.1.2 Test Channel = HCH

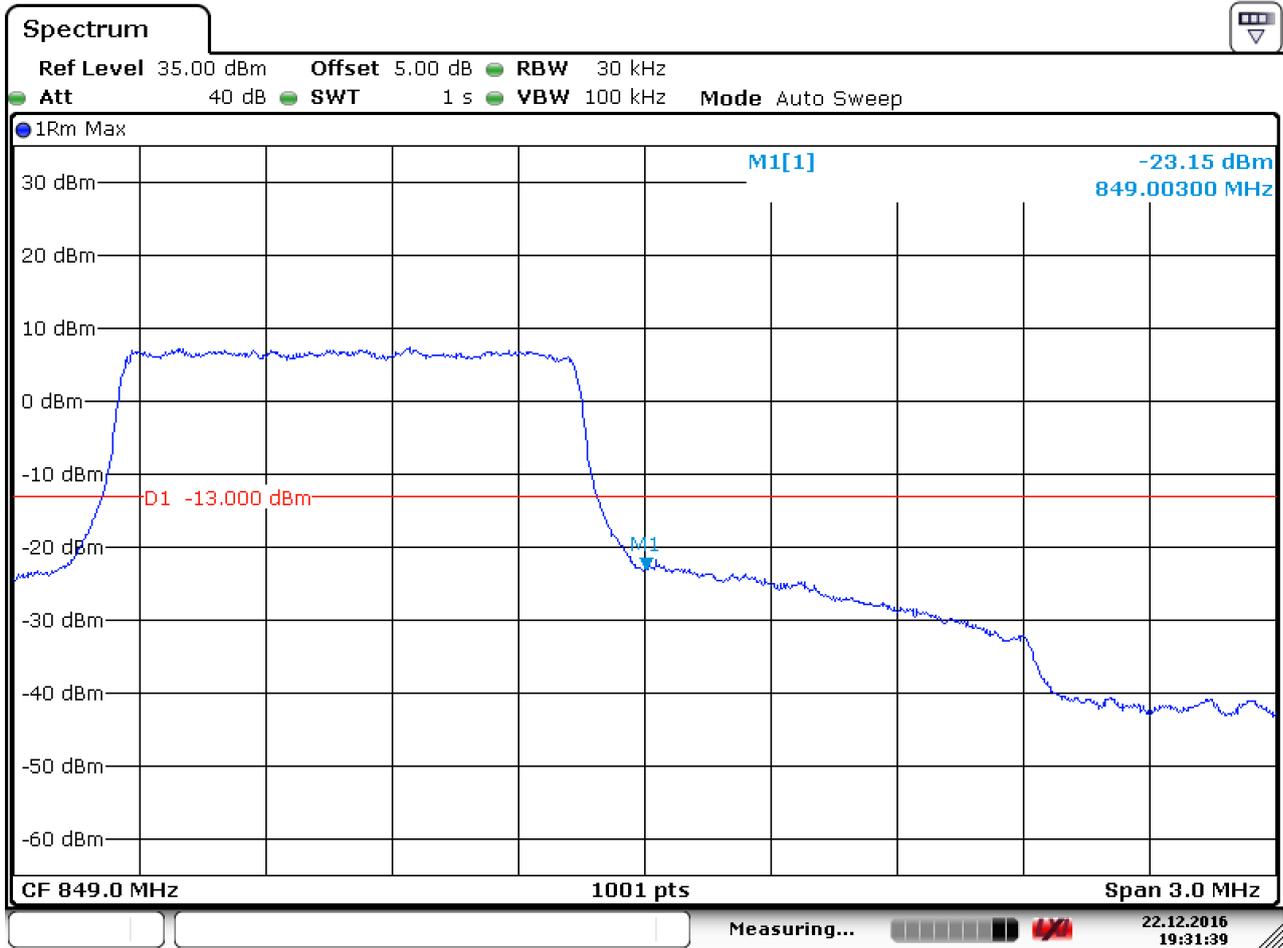
5.1.1.1.2.1 Test RB=1RB



Date: 22.DEC.2016 19:33:28



5.1.1.1.2.2 Test RB=6RB



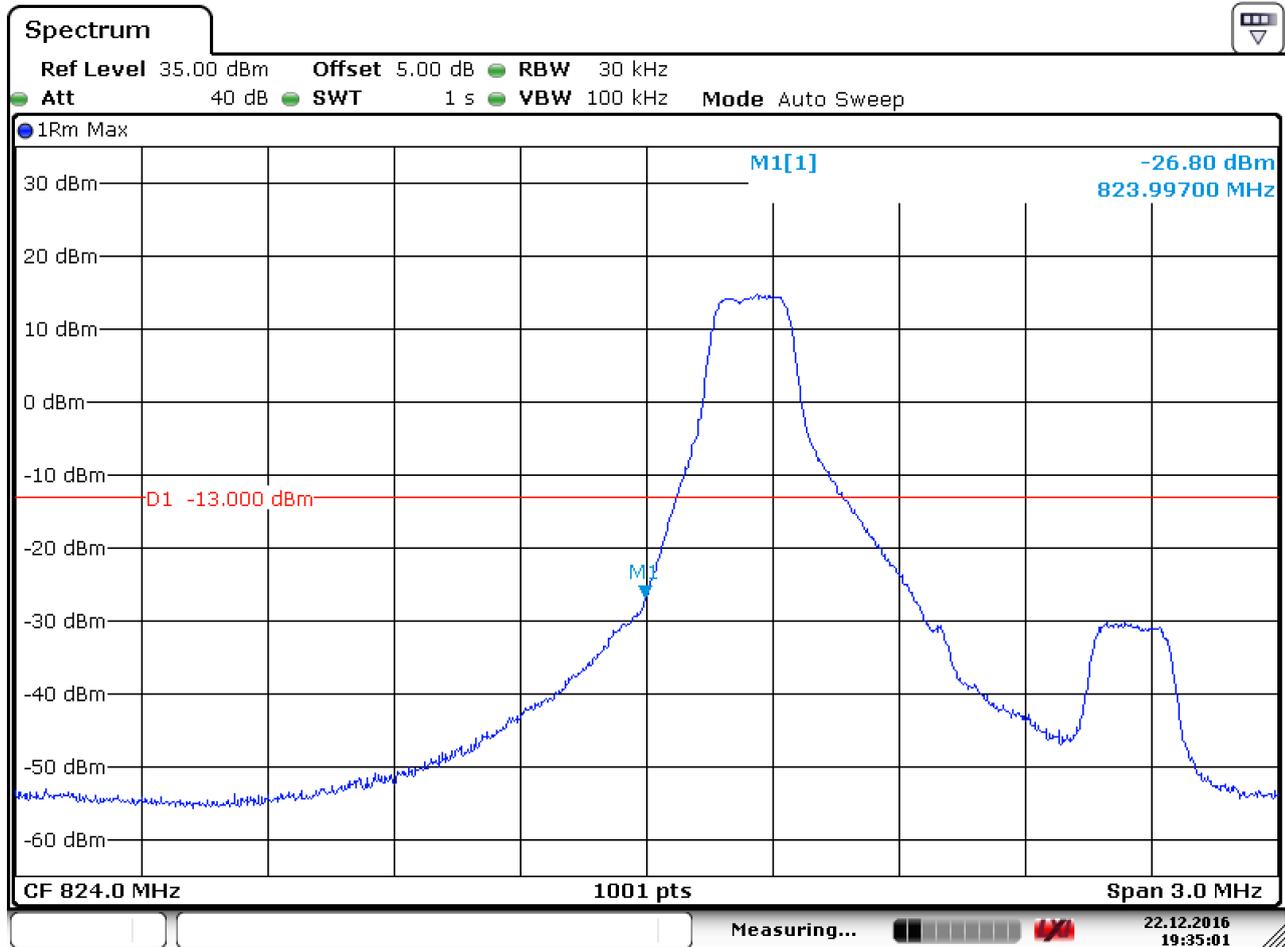
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5.1.1.2 Test Mode = LTE/TM2 1.4MHz
5.1.1.2.1 Test Channel = LCH

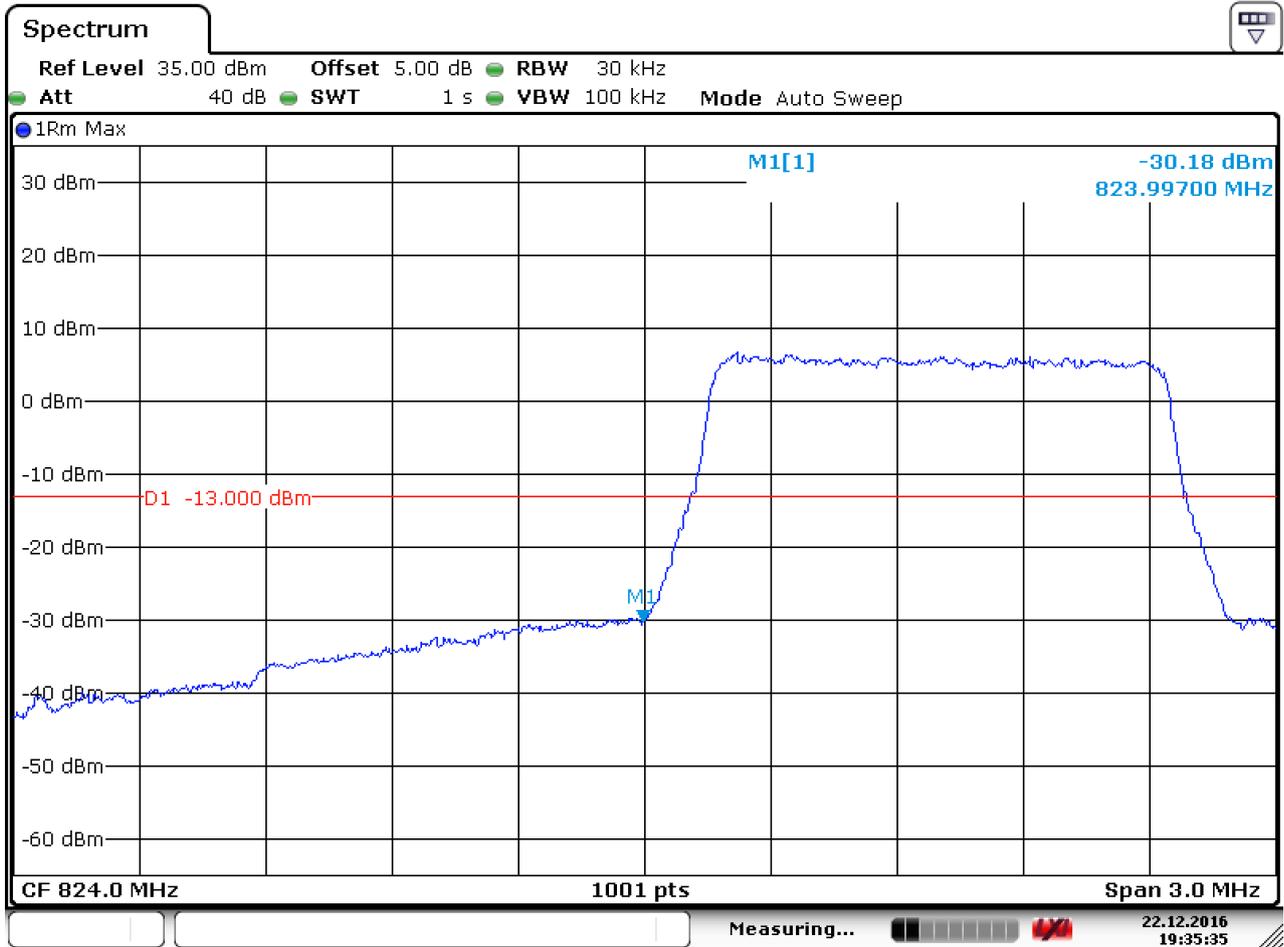
5.1.1.2.1.1 Test RB=1RB



Date: 22.DEC.2016 19:35:02



5.1.1.2.1.2 Test RB=6RB

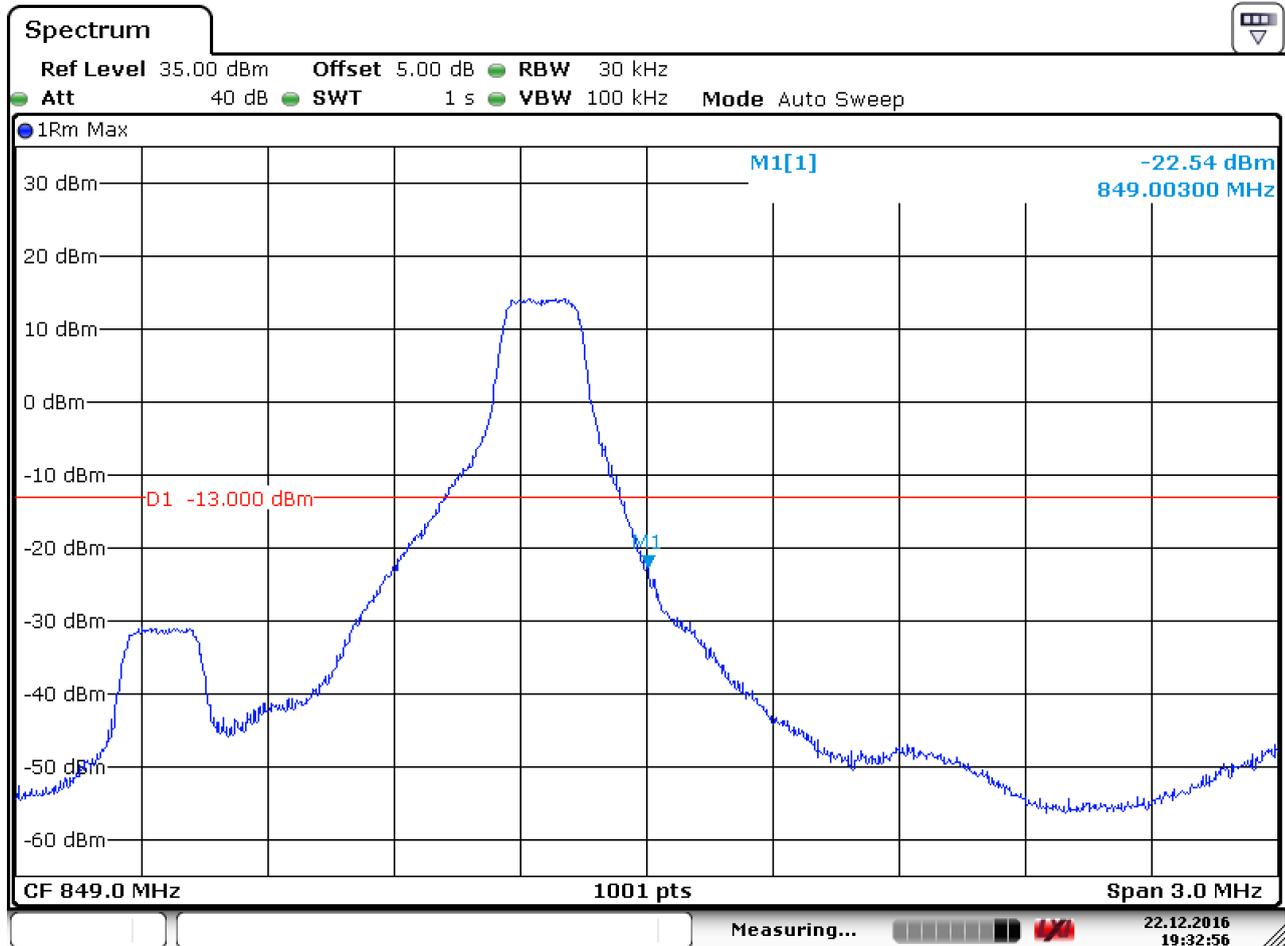


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5.1.1.2.2 Test Channel = HCH

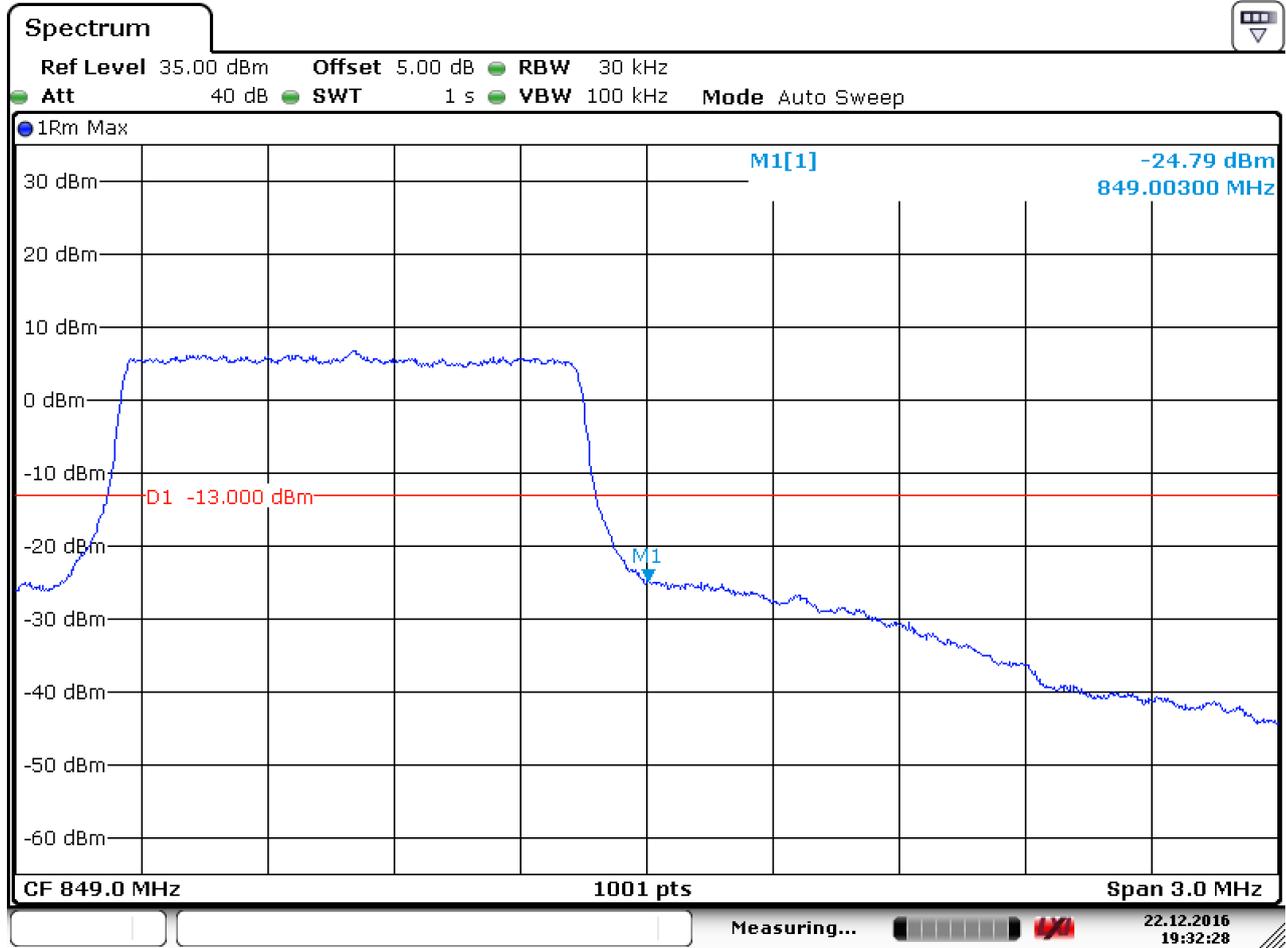
5.1.1.2.2.1 Test RB=1RB



Date: 22.DEC.2016 19:32:56



5.1.1.2.2.2 Test RB=6RB



Date: 22.DEC.2016 19:32:29

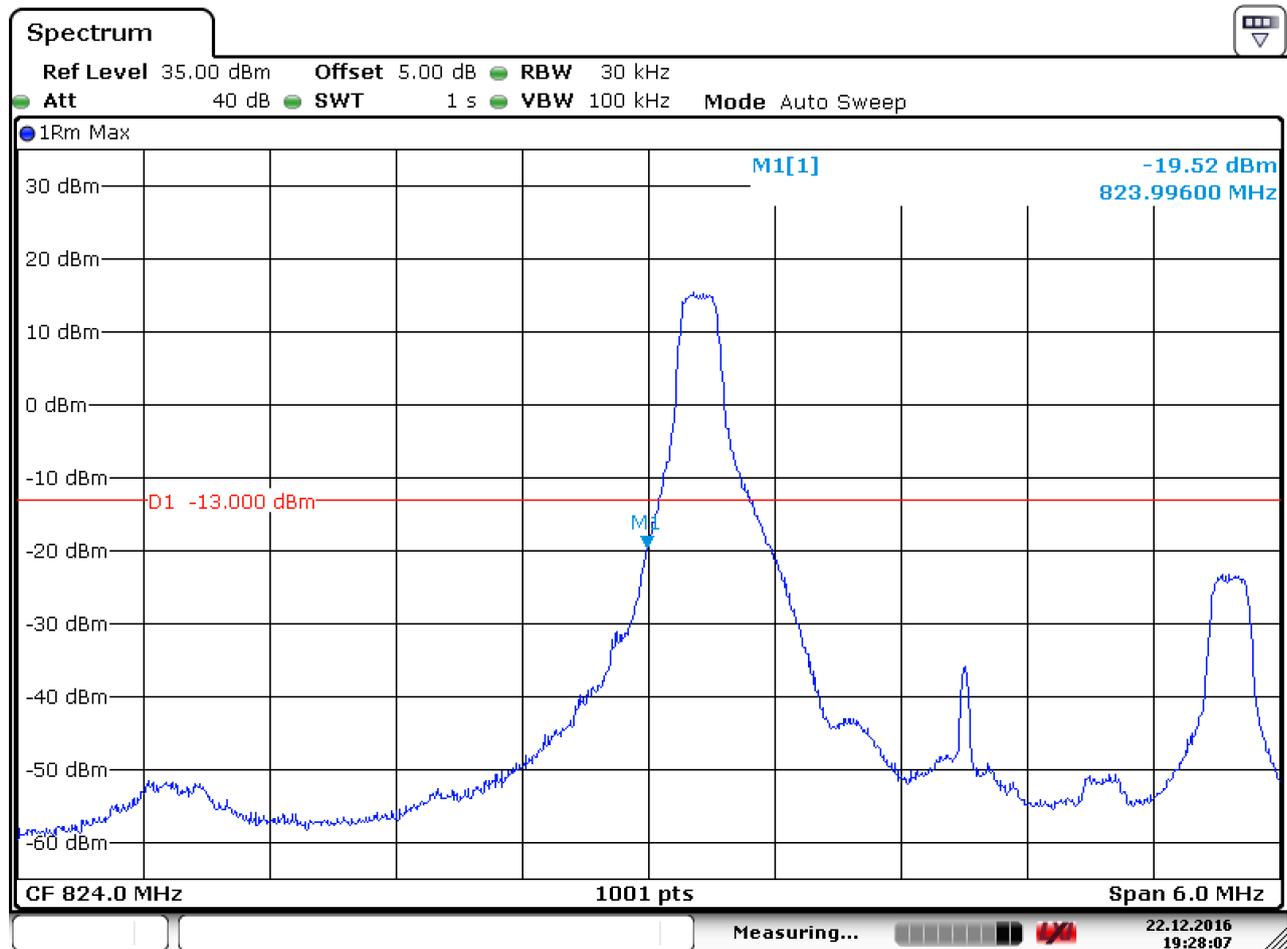
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5.1.1.3 Test Mode = LTE/TM1 3MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

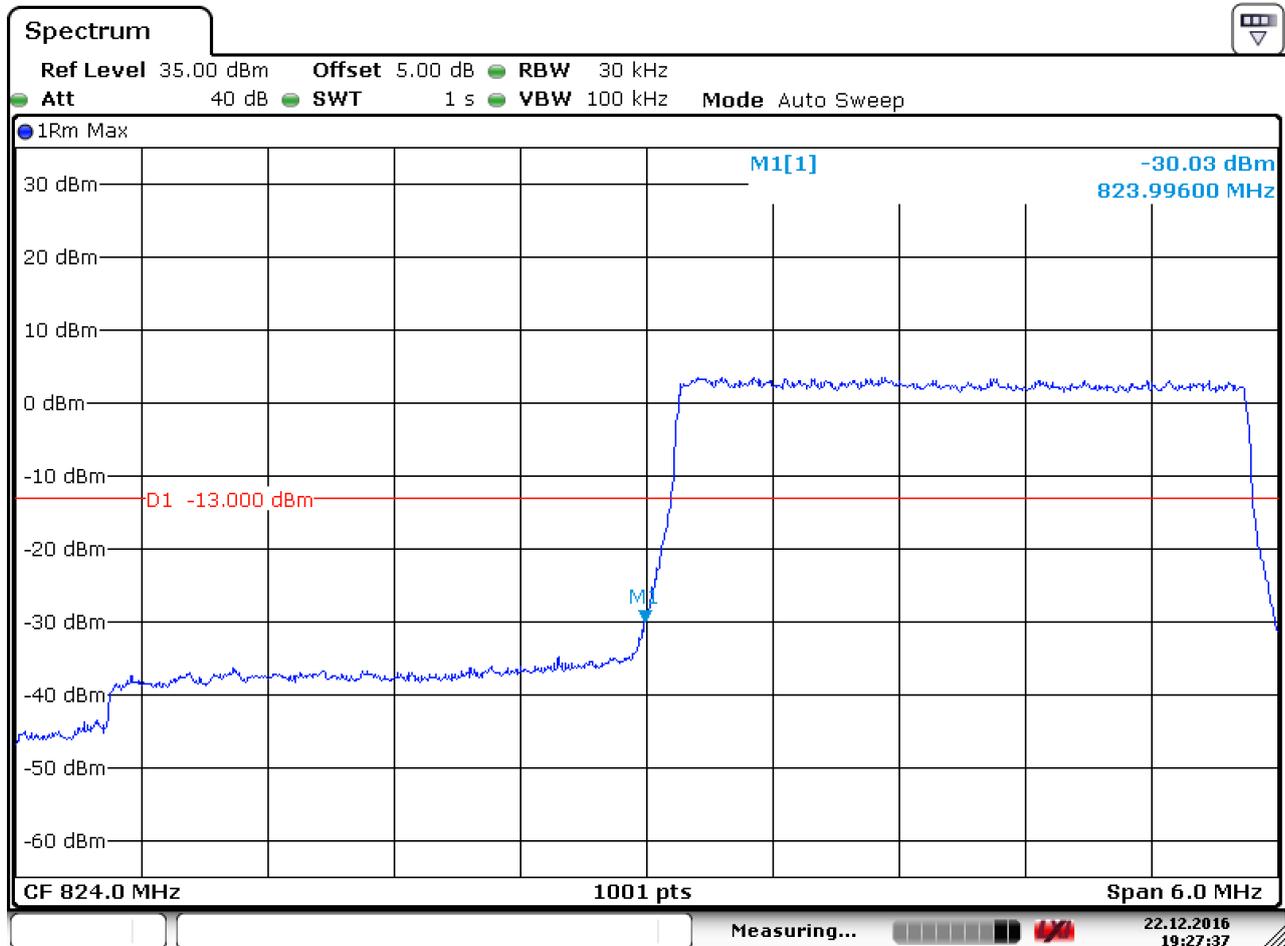


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5.1.1.3.1.2 Test RB=15RB

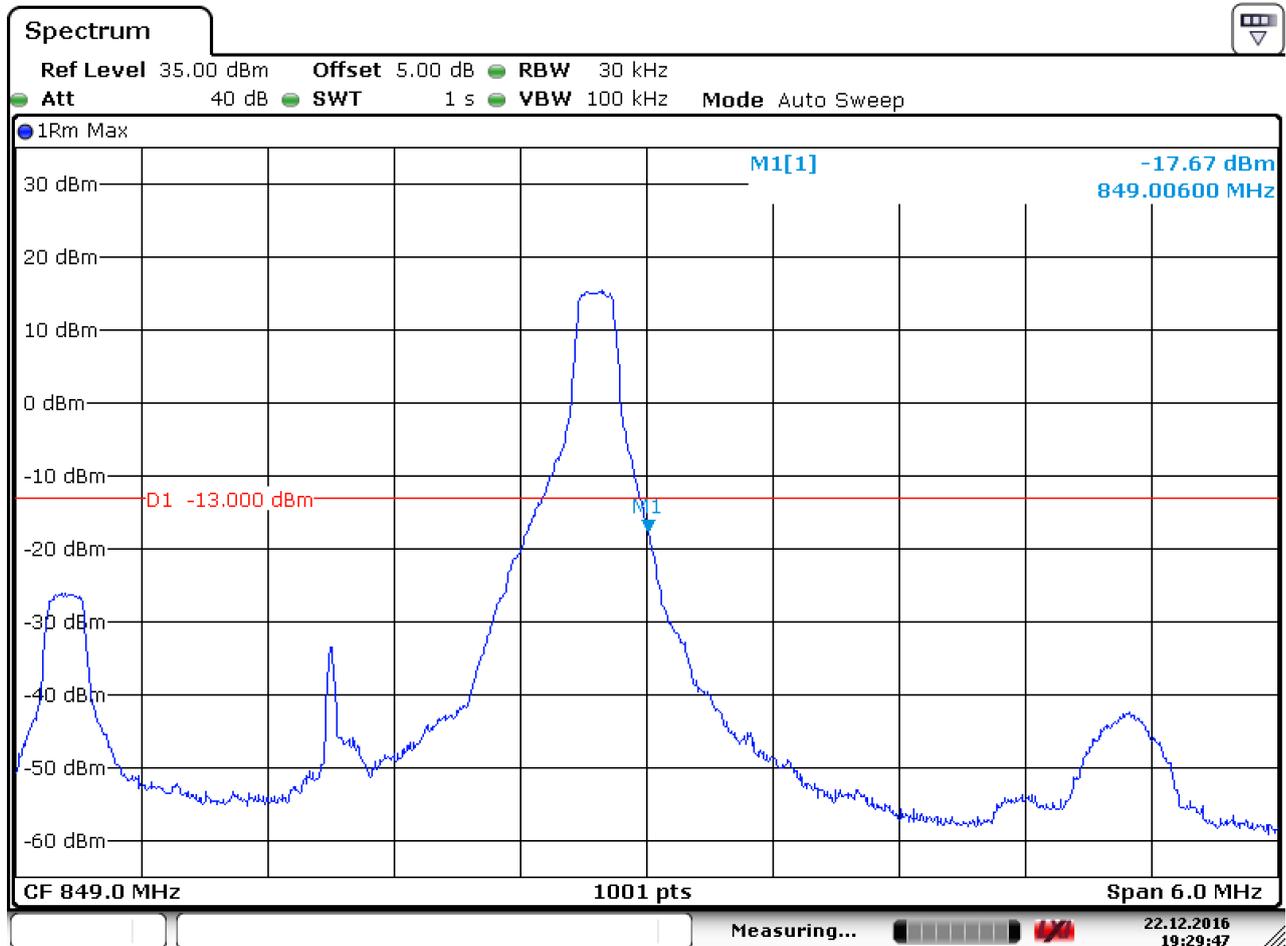


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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

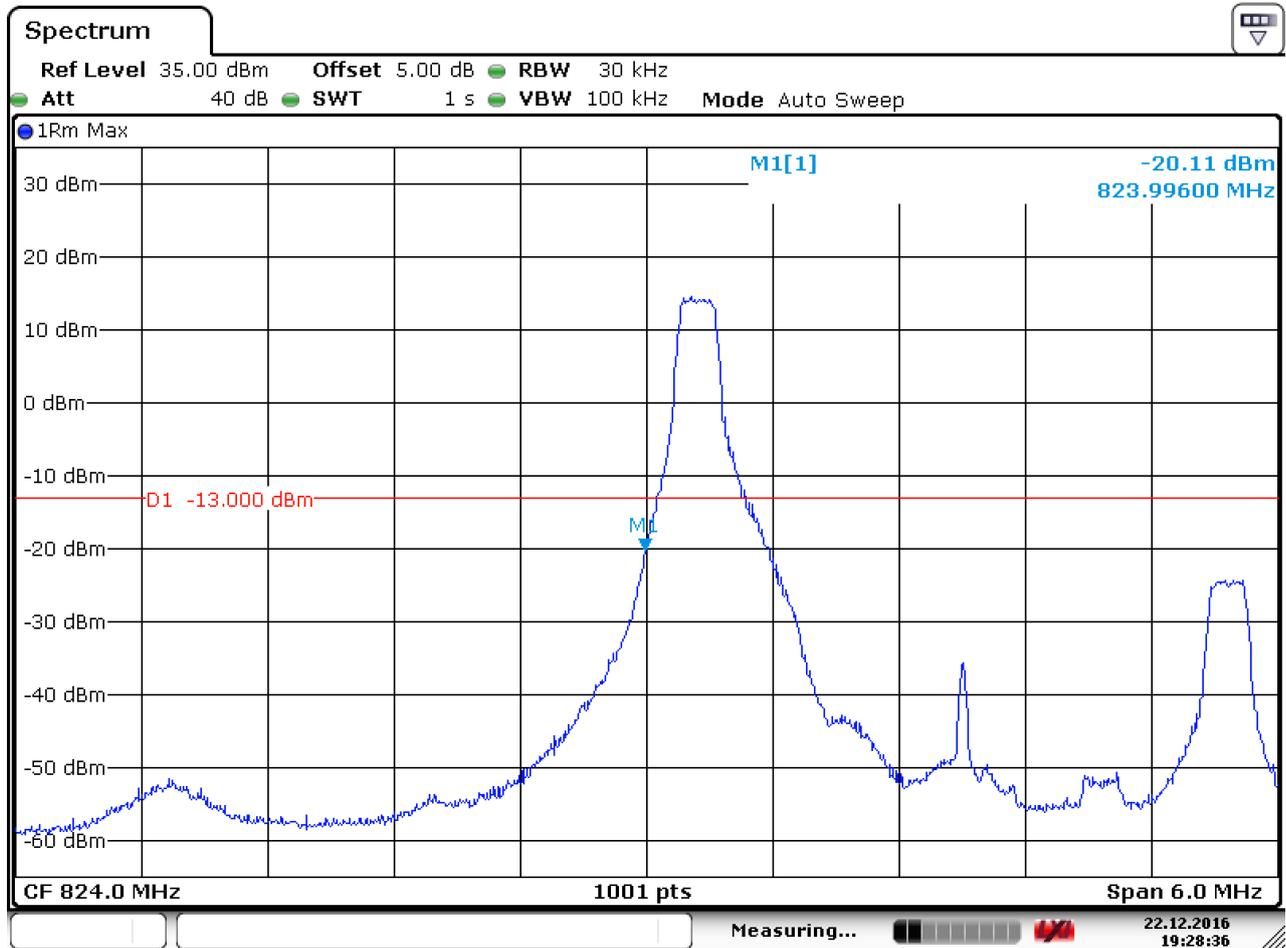


Date: 22.DEC.2016 19:29:48

5.1.1.4 Test Mode = LTE/TM2 3MHz

5.1.1.4.1 Test Channel = LCH

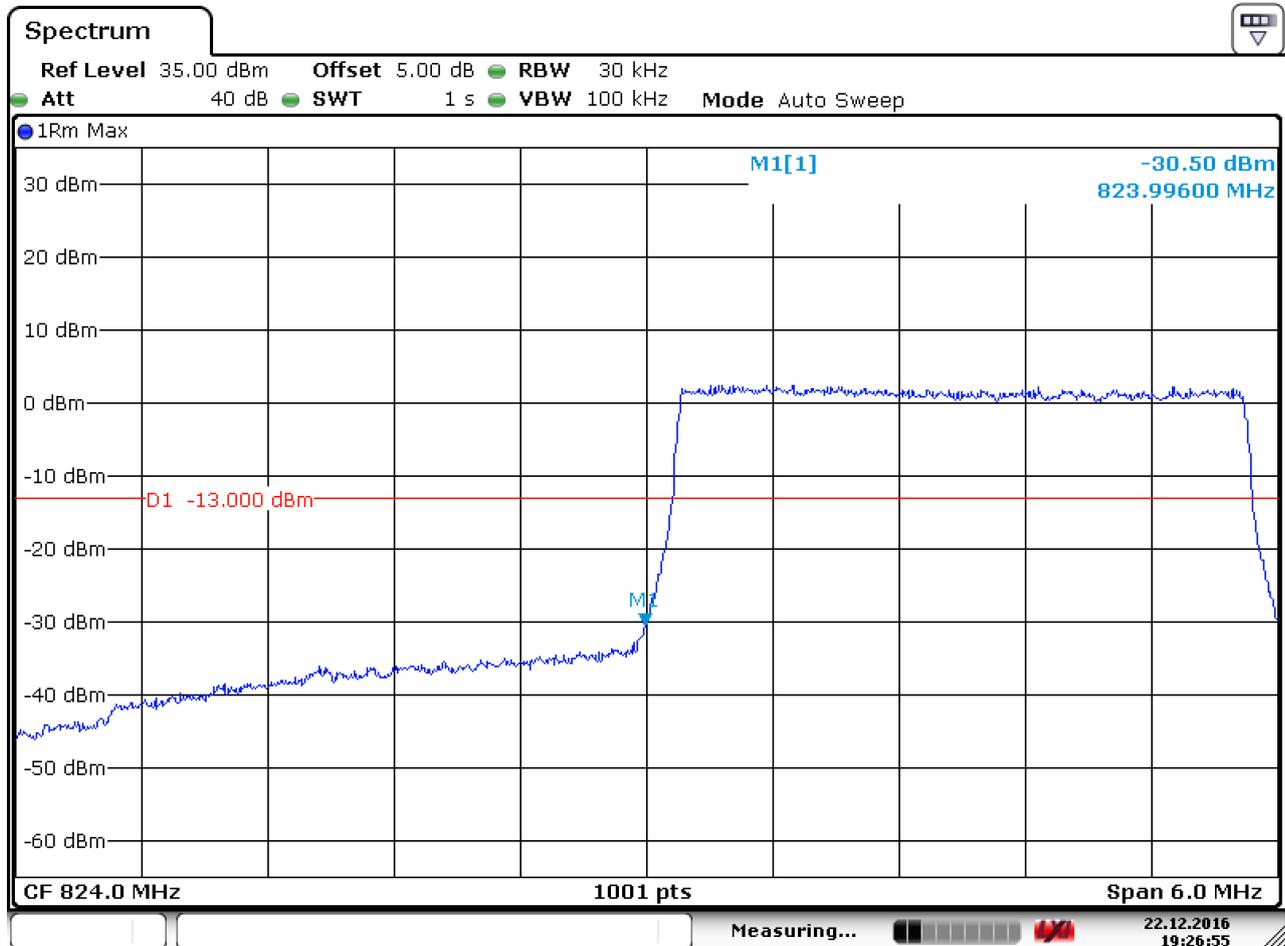
5.1.1.4.1.1 Test RB=1RB



Date: 22.DEC.2016 19:28:36



5.1.1.4.1.2 Test RB=15RB

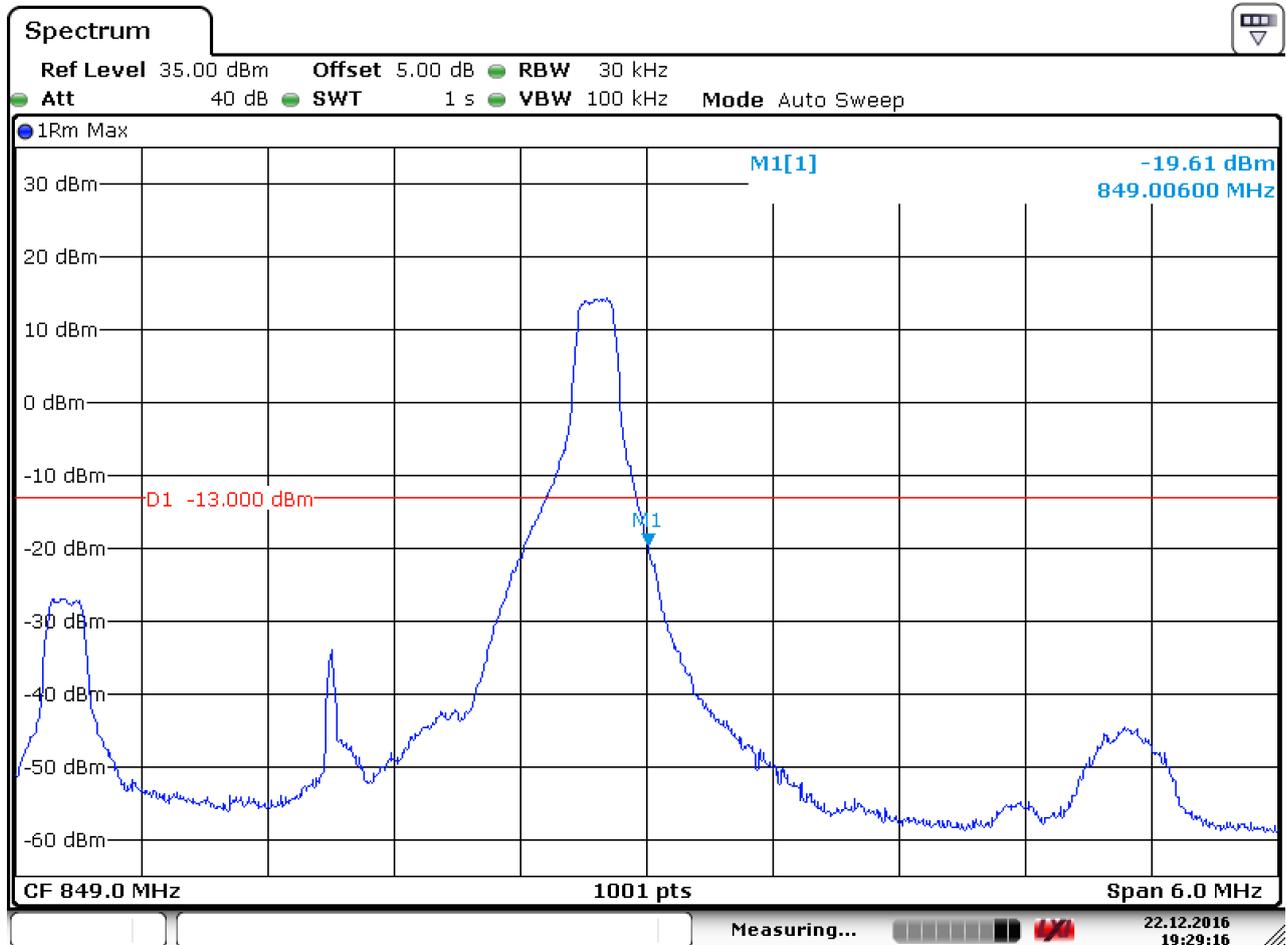


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5.1.1.4.2 Test Channel = HCH

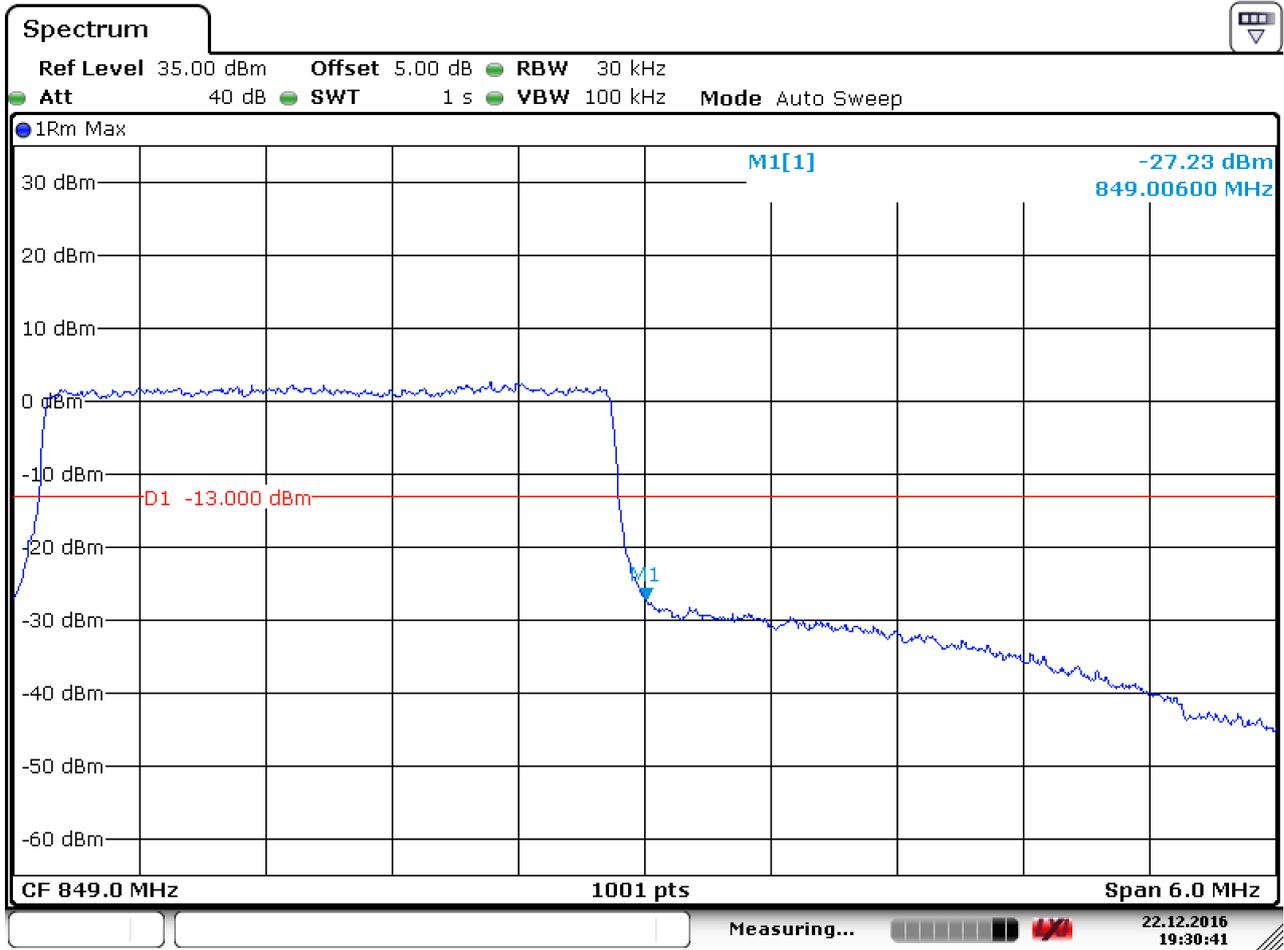
5.1.1.4.2.1 Test RB=1RB



Date: 22.DEC.2016 19:29:17



5.1.1.4.3 Test RB=15RB



Date: 22.DEC.2016 19:30:40

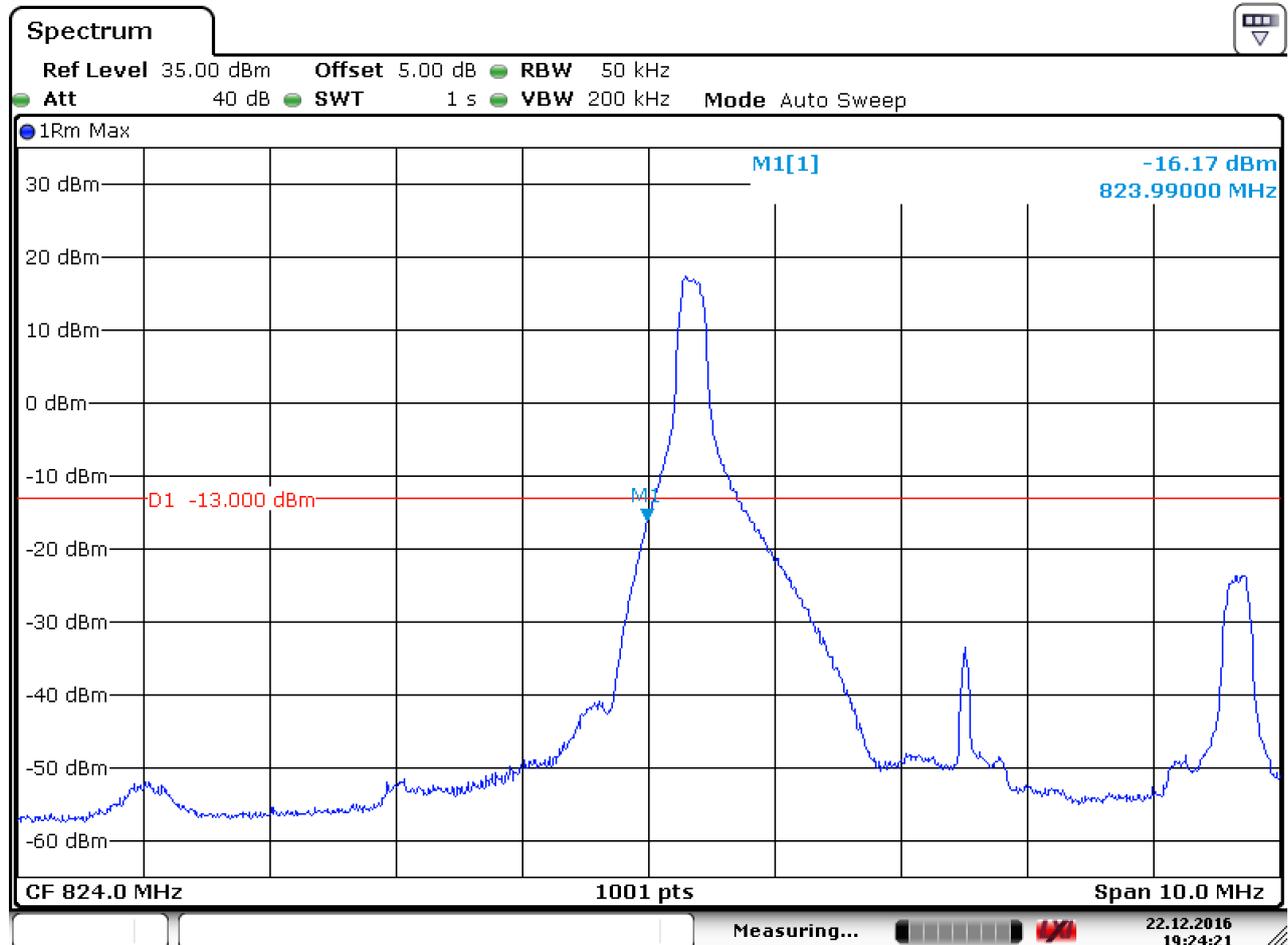
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5.1.1.5 Test Mode = LTE/TM1 5MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

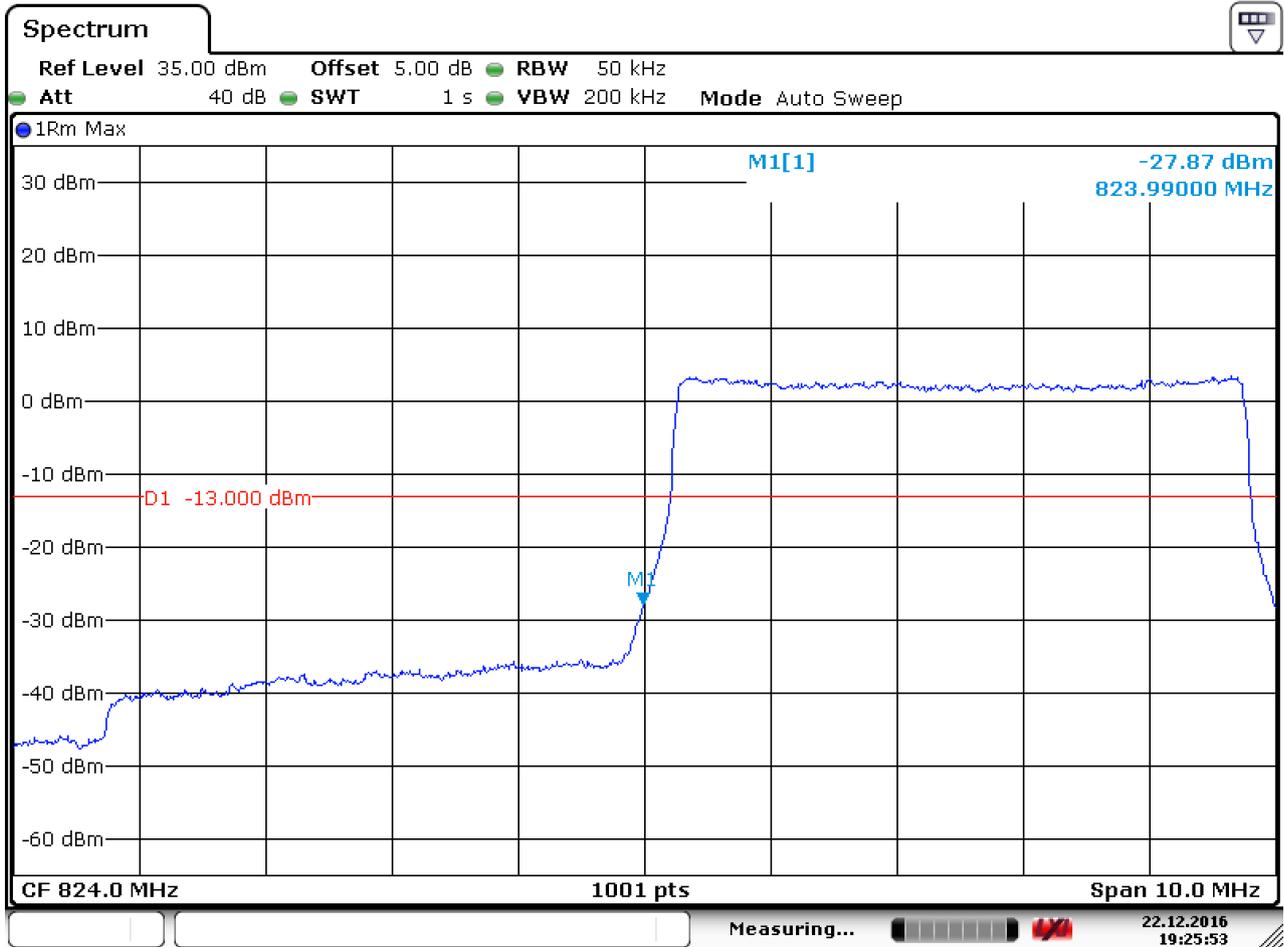


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5.1.1.5.1.2 Test RB=25RB

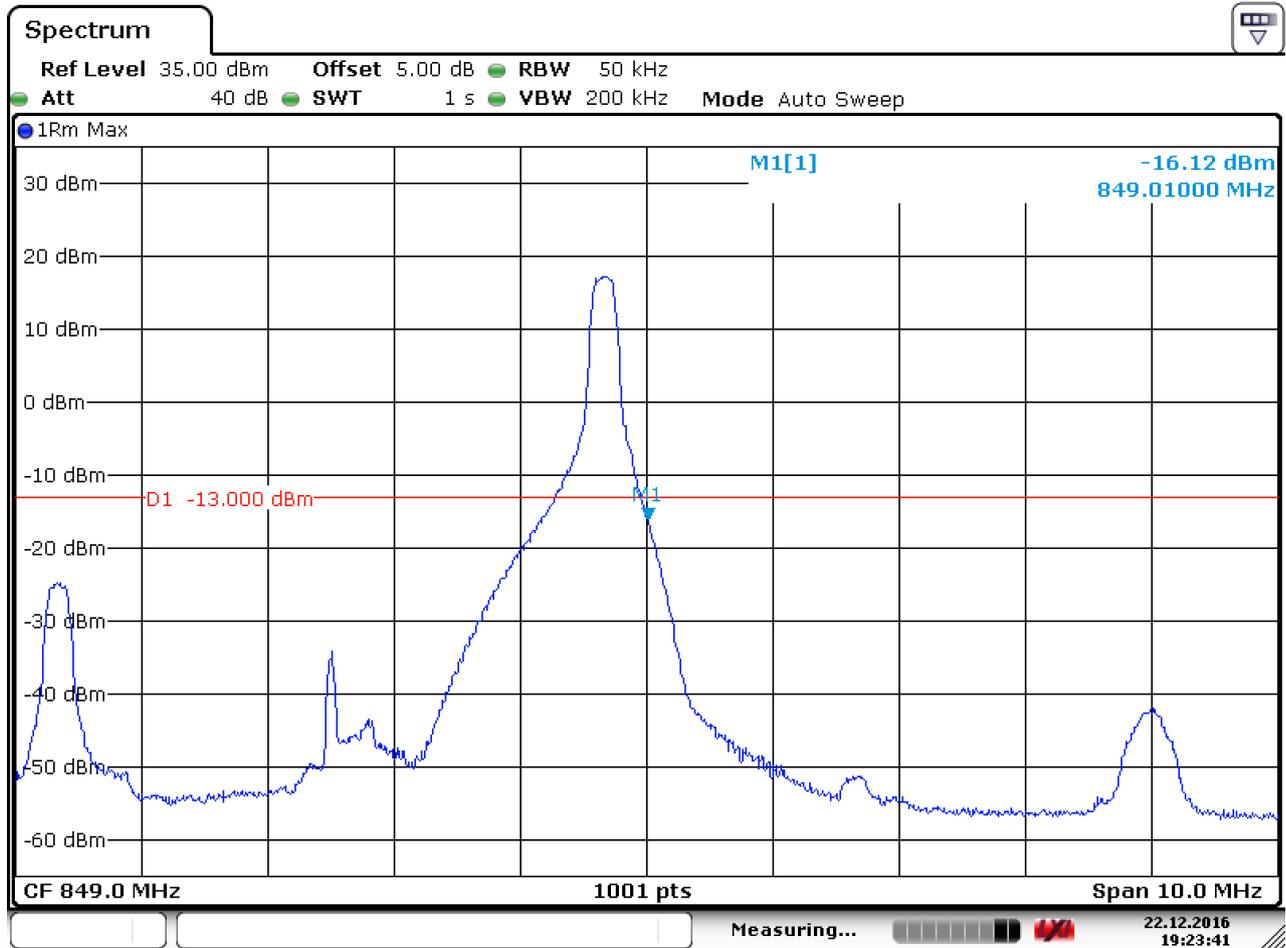


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5.1.1.5.2 Test Channel = HCH

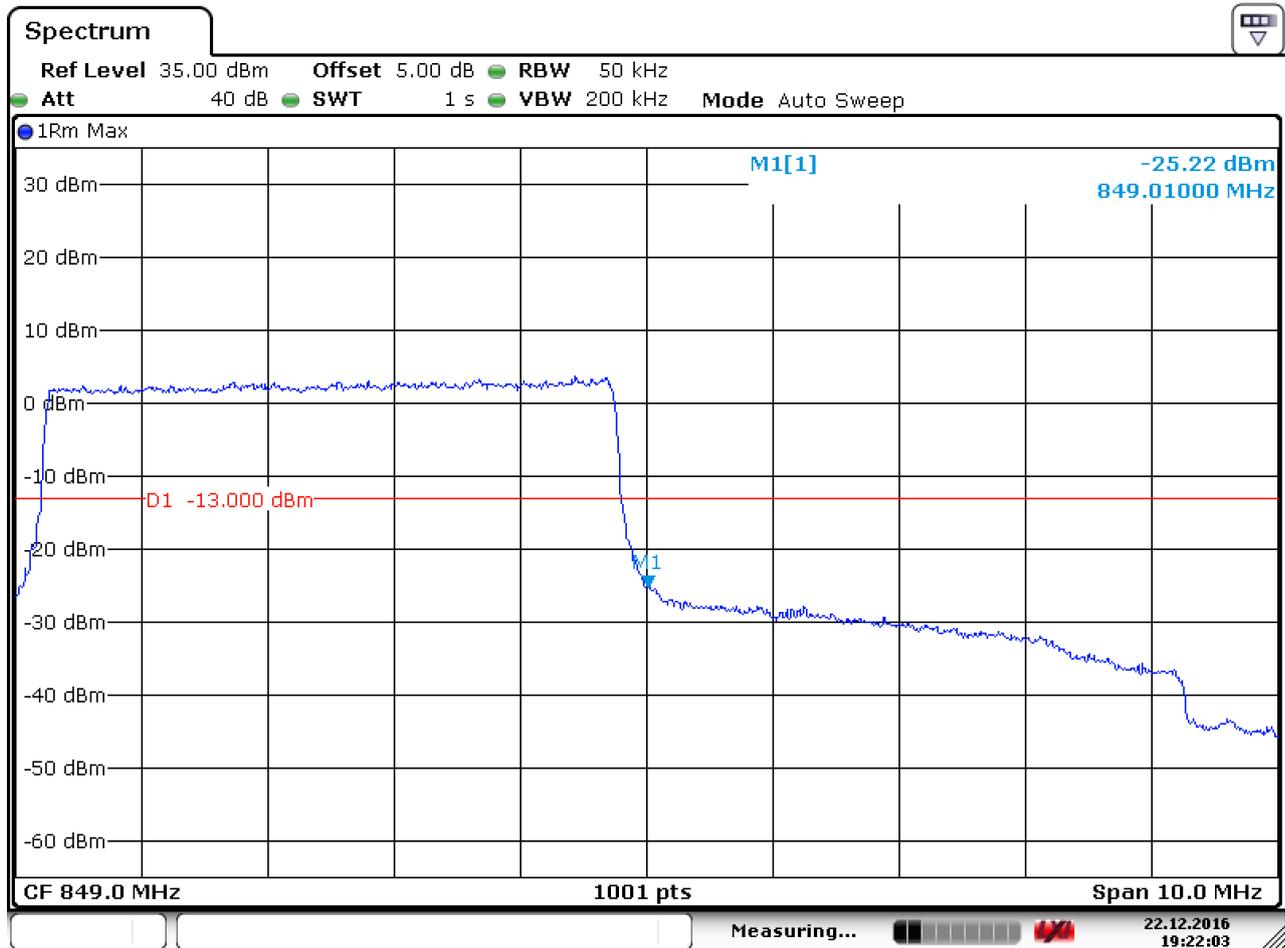
5.1.1.5.2.1 Test RB=1RB



Date: 22.DEC.2016 19:23:42



5.1.1.5.2.2 Test RB=25RB



Date: 22.DEC.2016 19:22:04

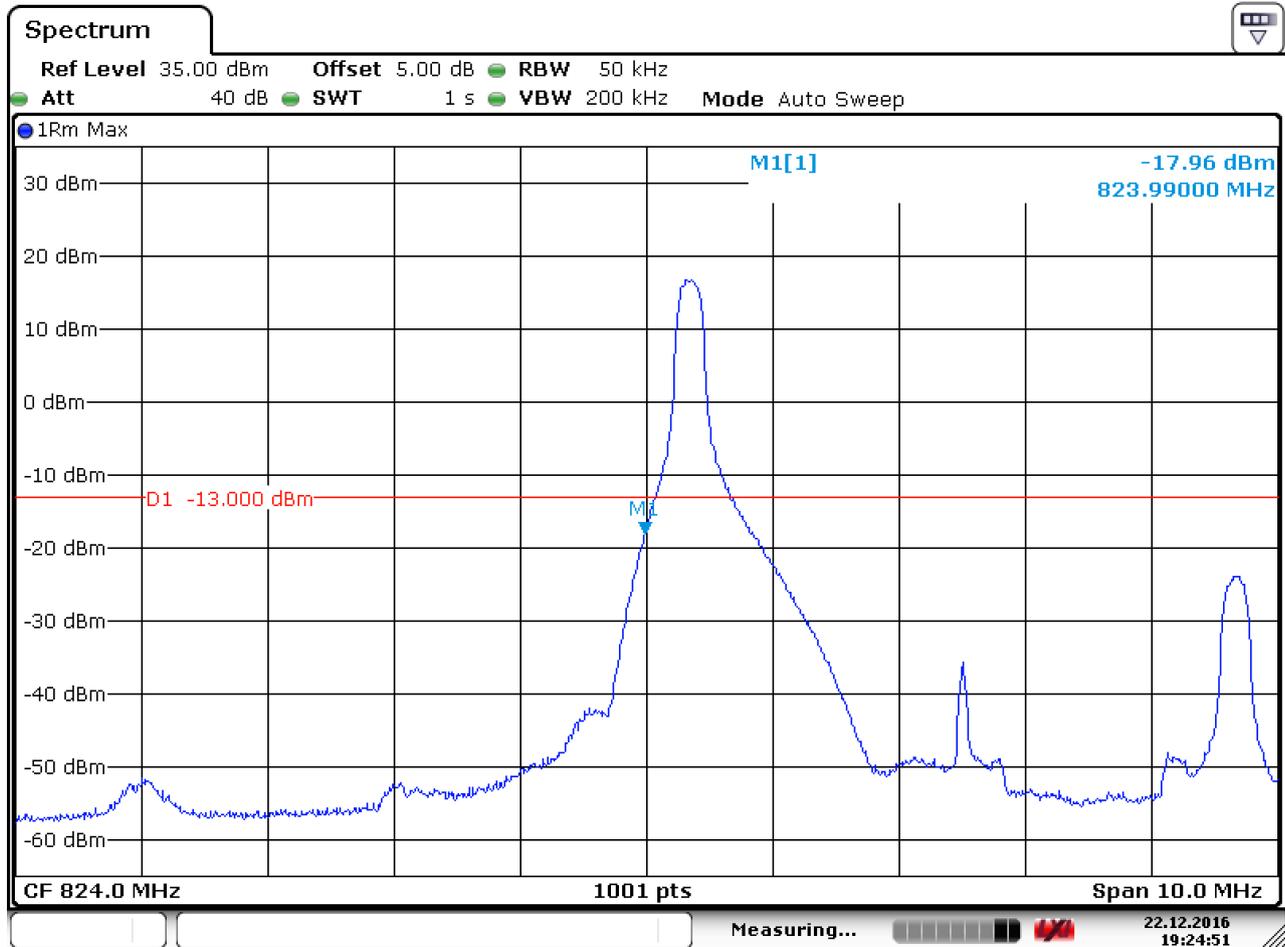
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5.1.1.6 Test Mode = LTE/TM2 5MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB

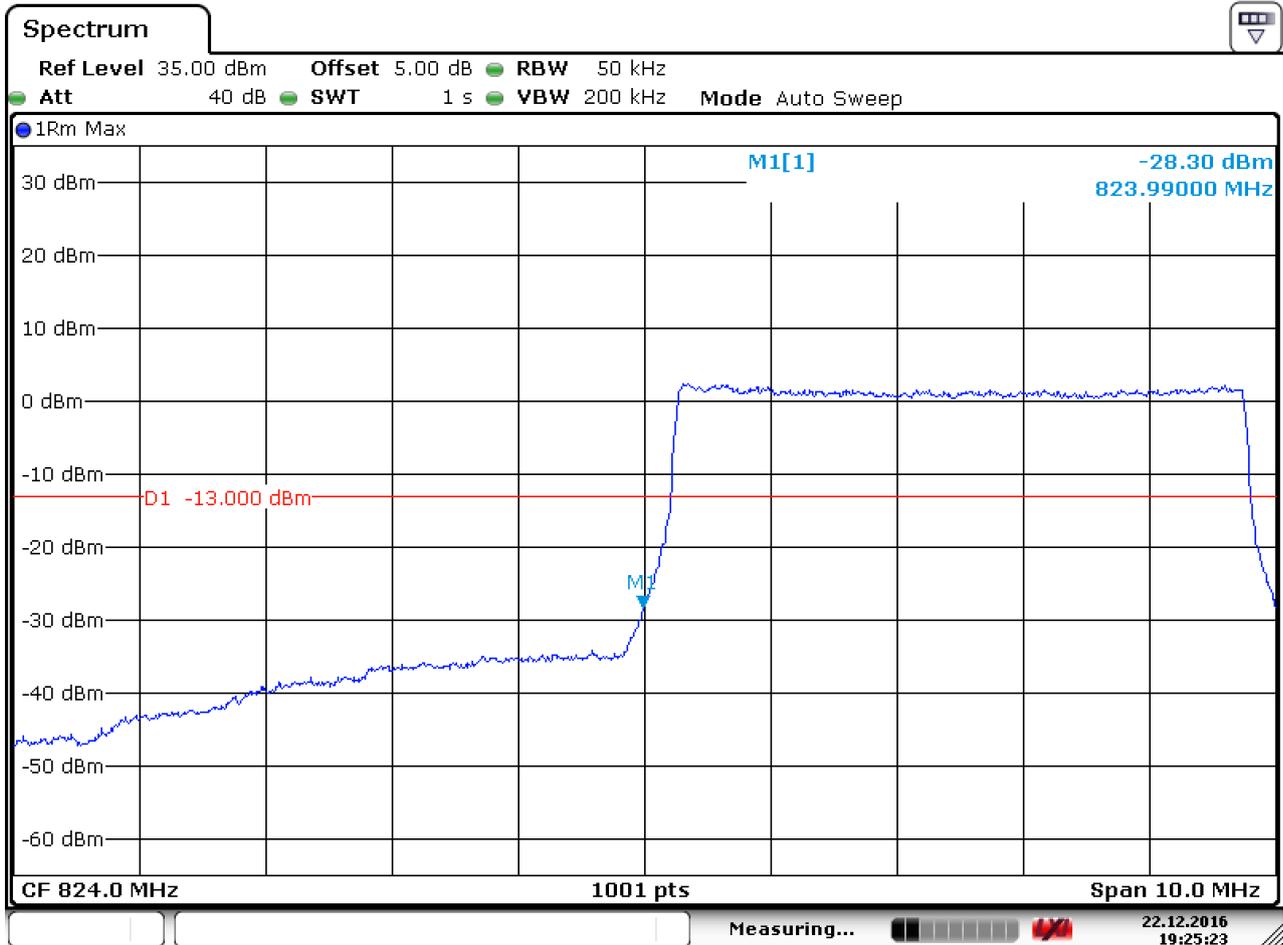


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5.1.1.6.1.2 Test RB=25RB

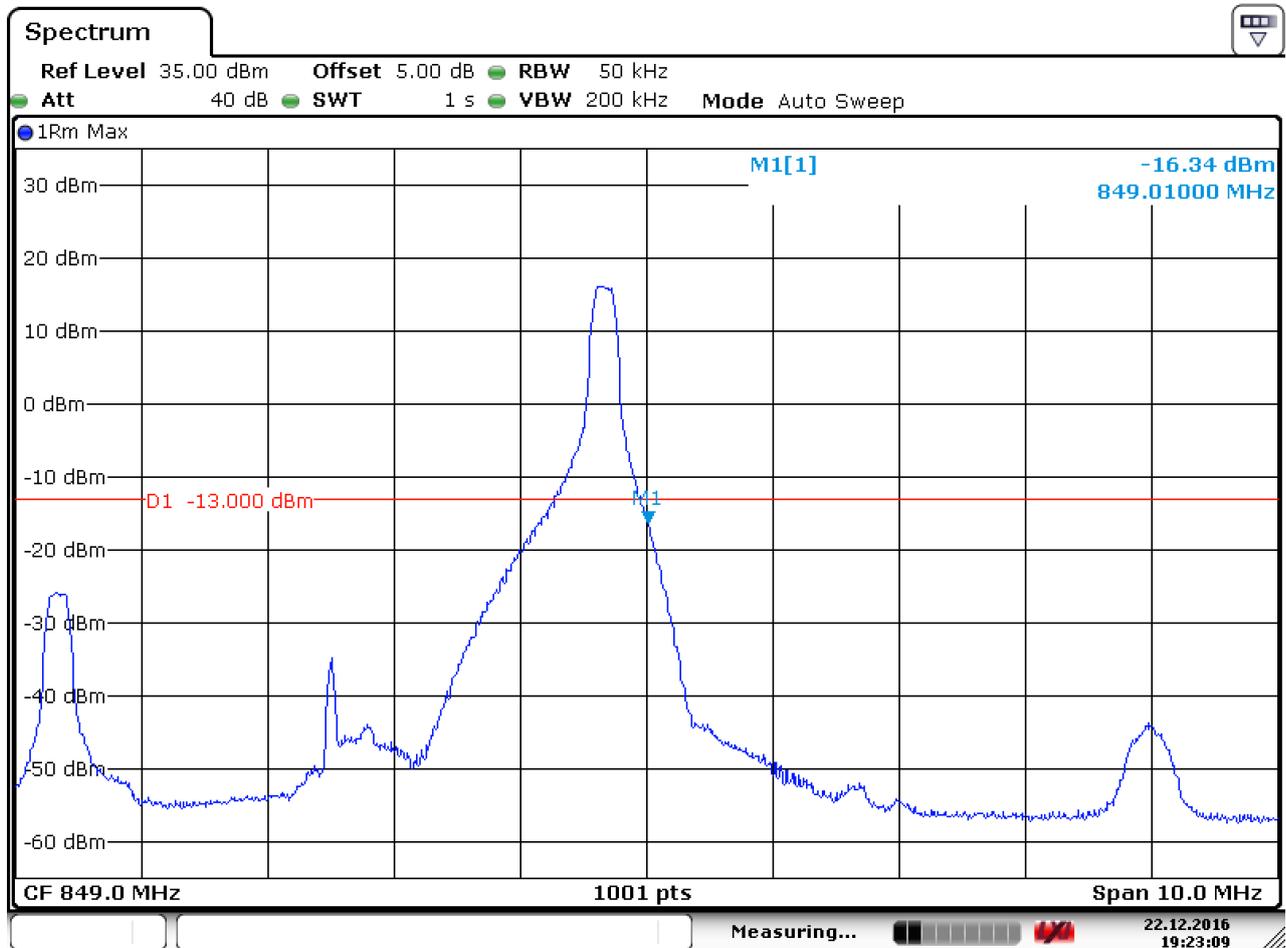


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5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



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Shenzhen Branch**

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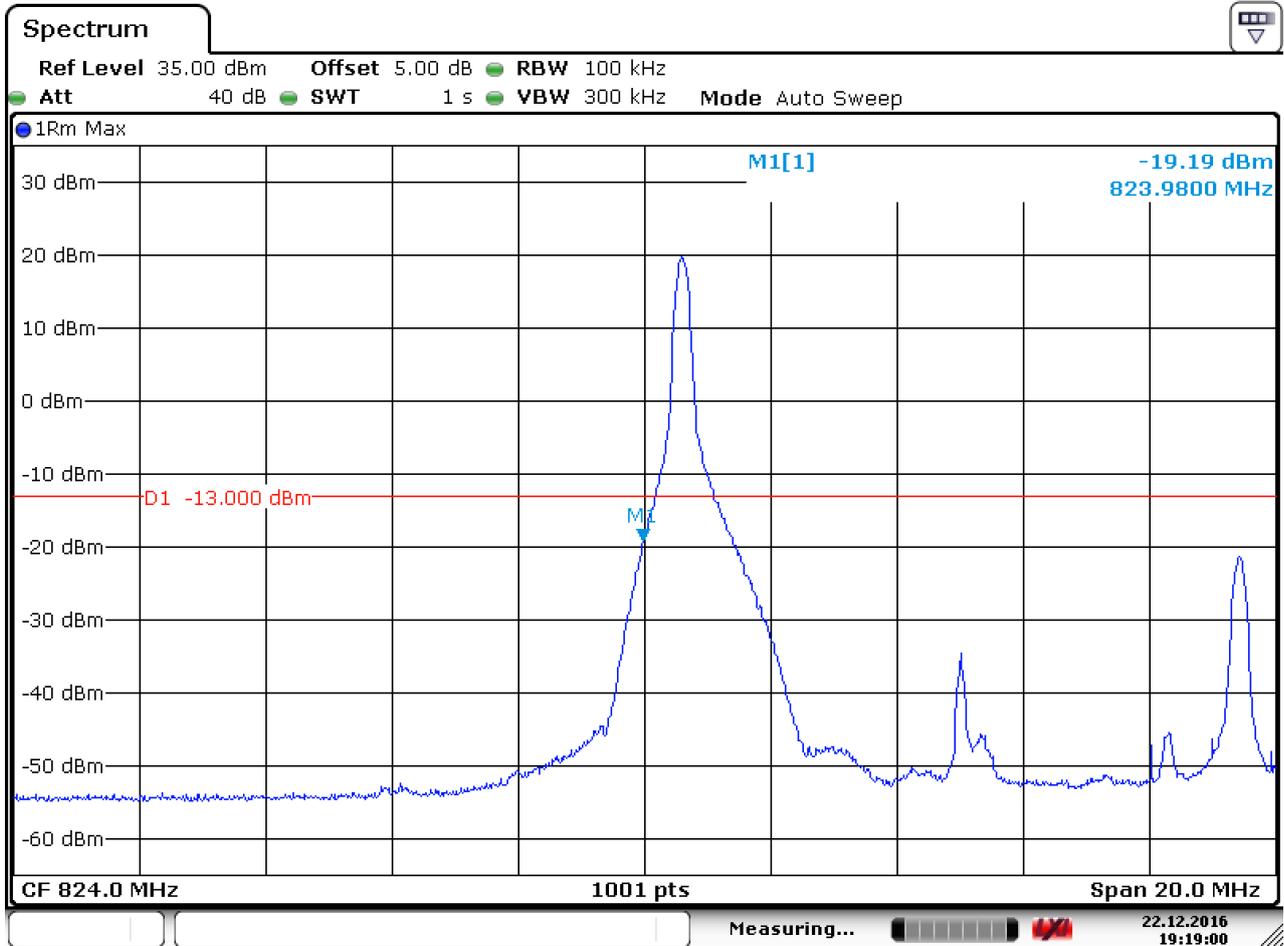
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5.1.1.7 Test Mode = LTE/TM1 10MHz

5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB

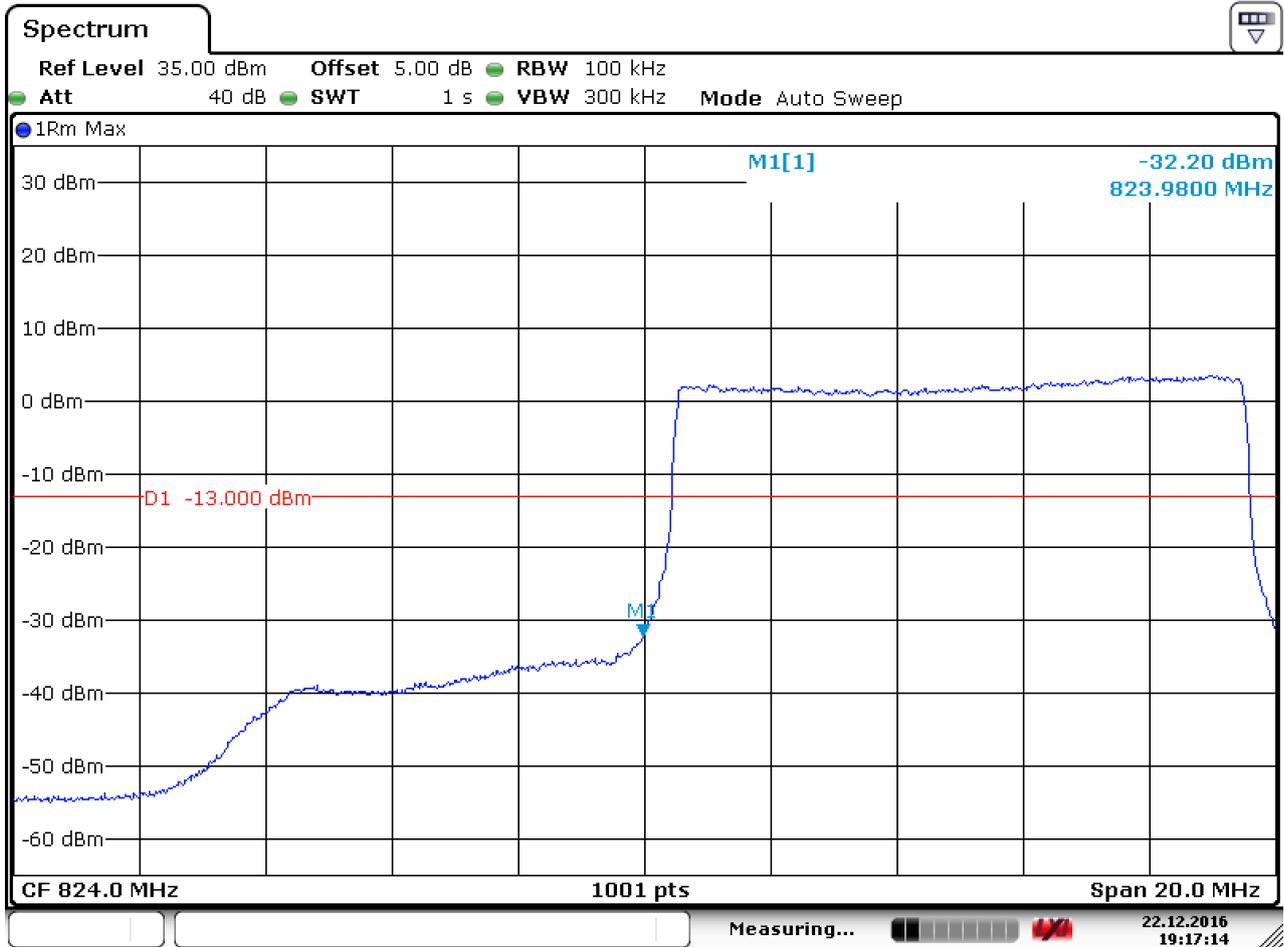


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5.1.1.7.1.2 Test RB=50RB



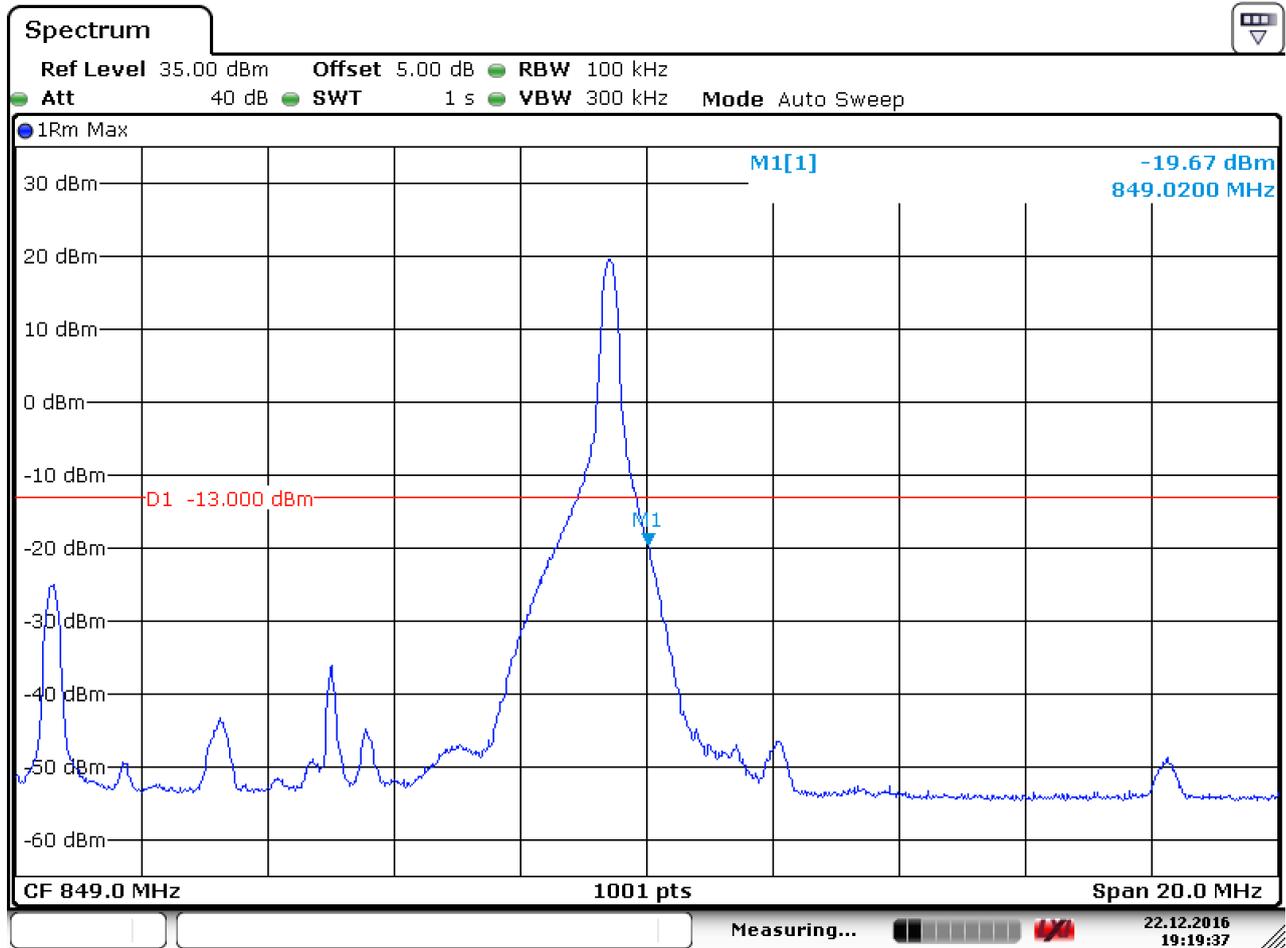
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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB

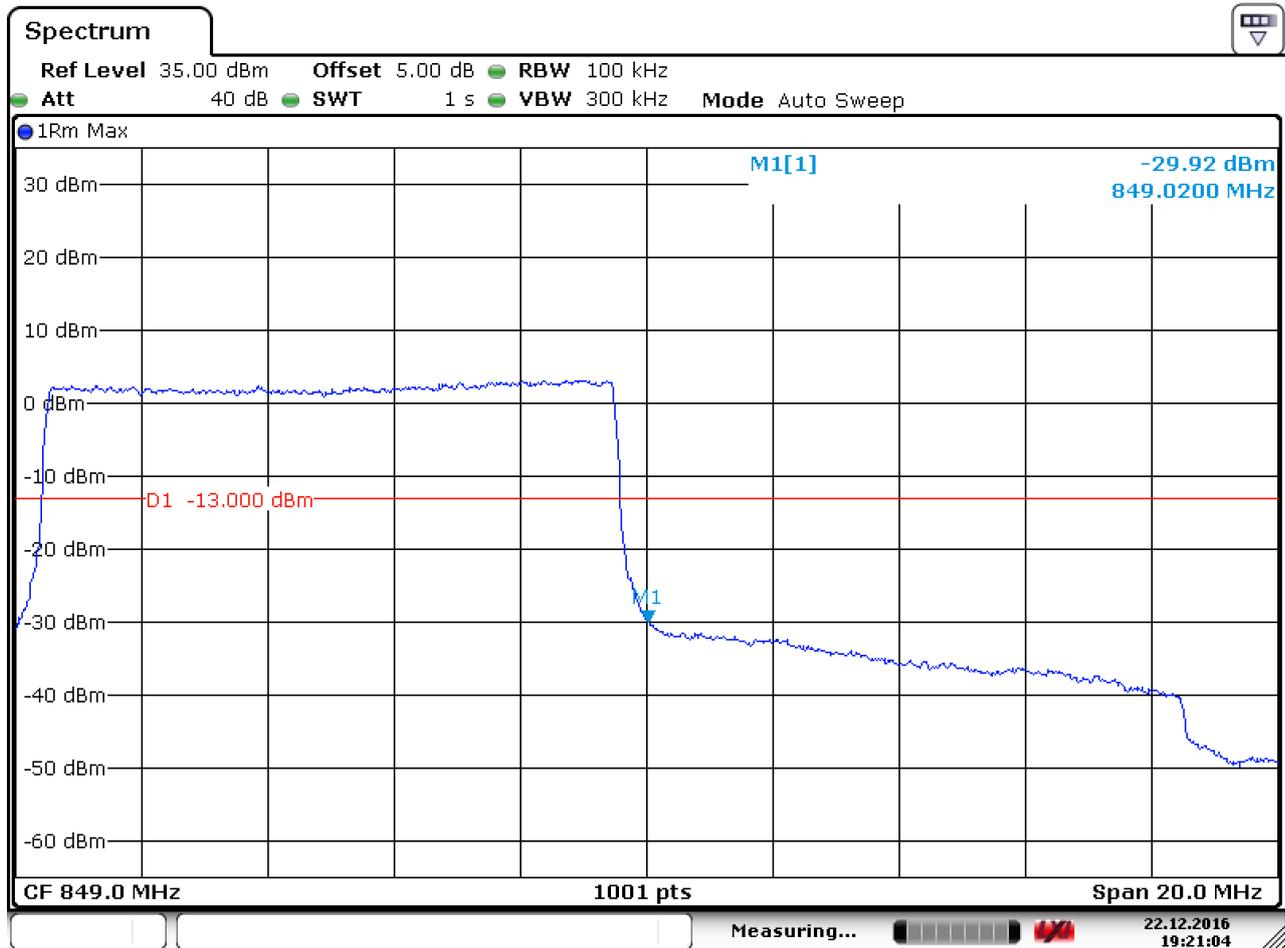


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5.1.1.7.2.2 Test RB=50RB

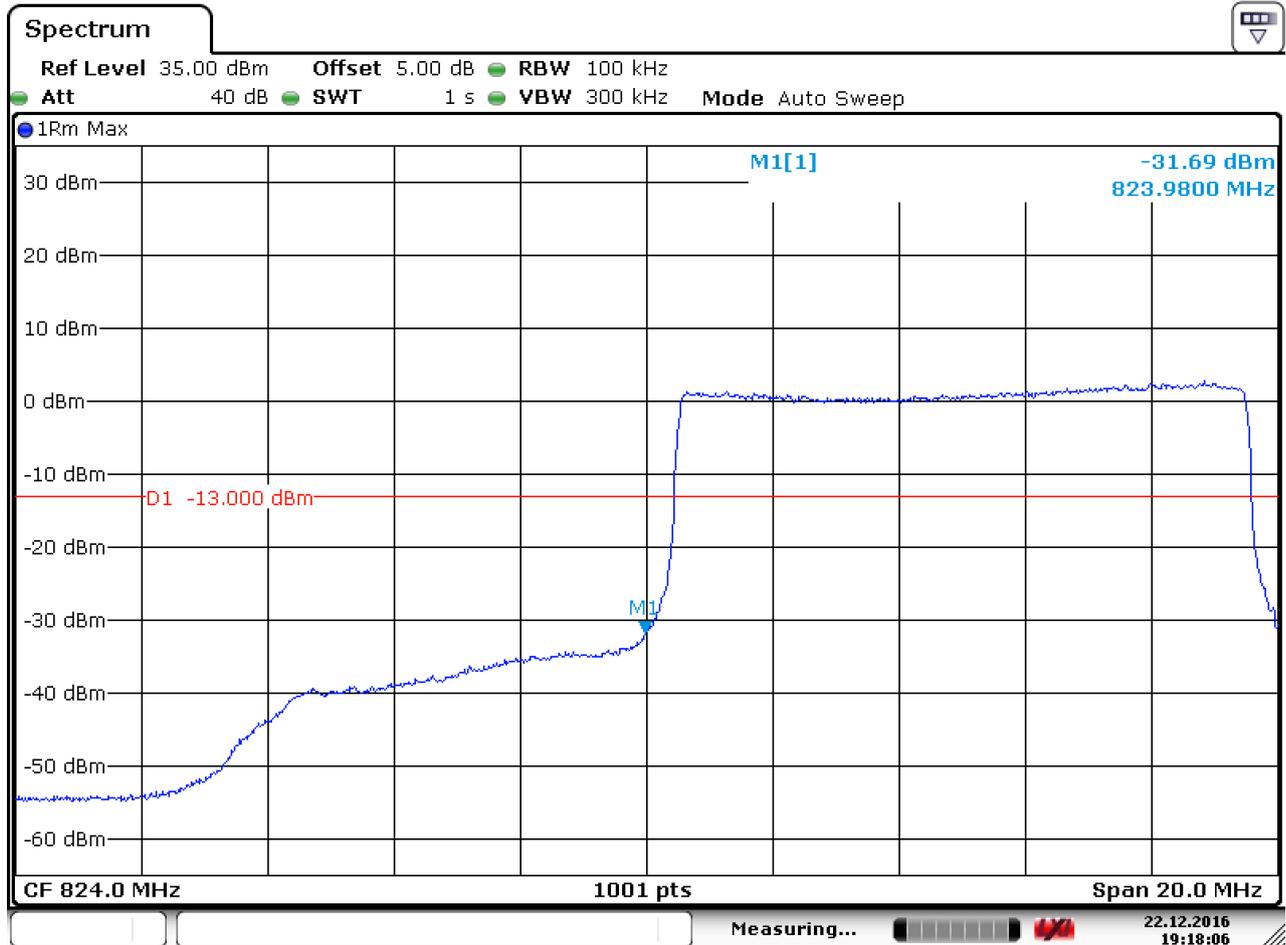


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5.1.1.8.1.2 Test RB=50RB

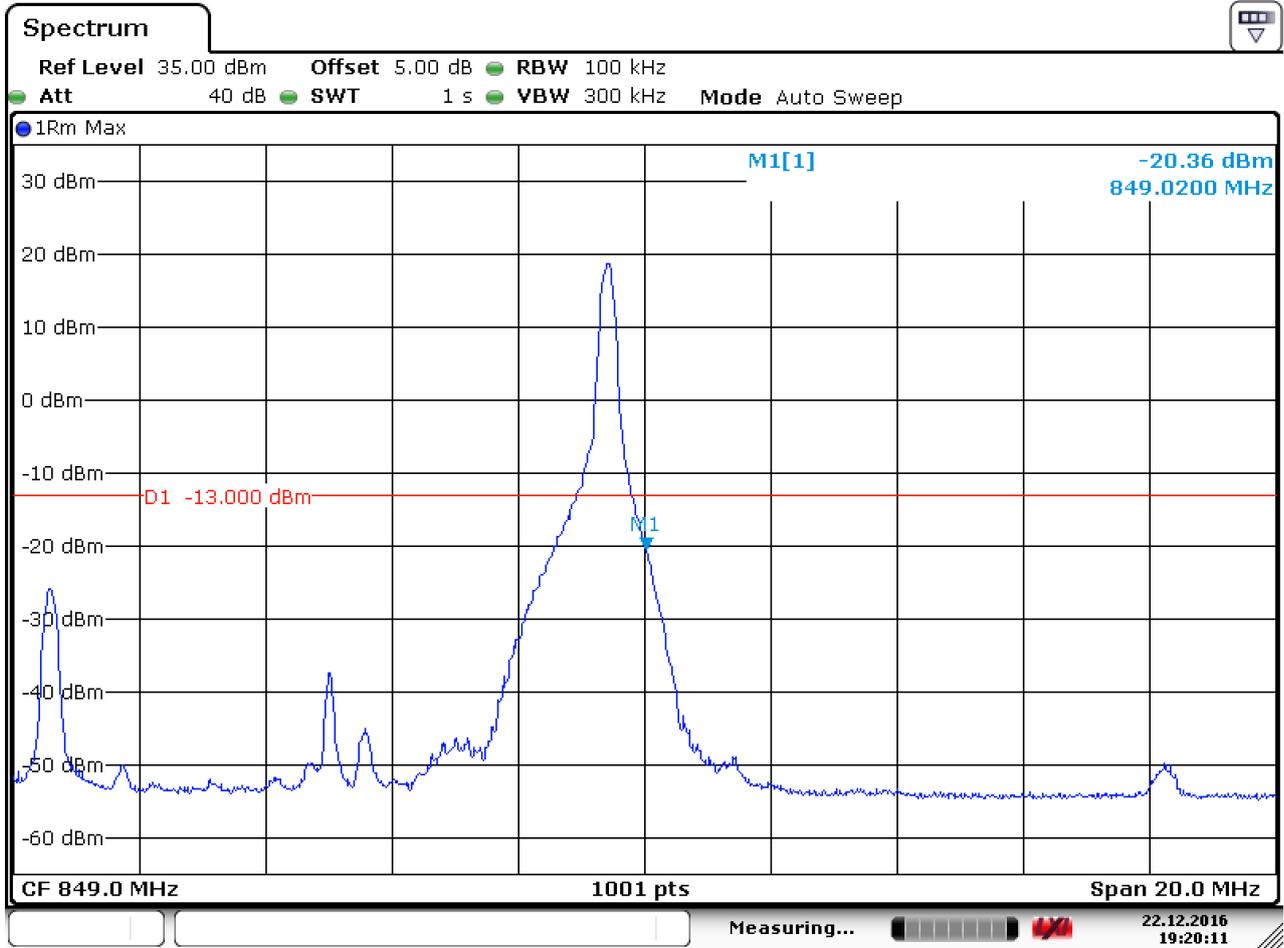


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5.1.1.8.2 Test Channel = HCH

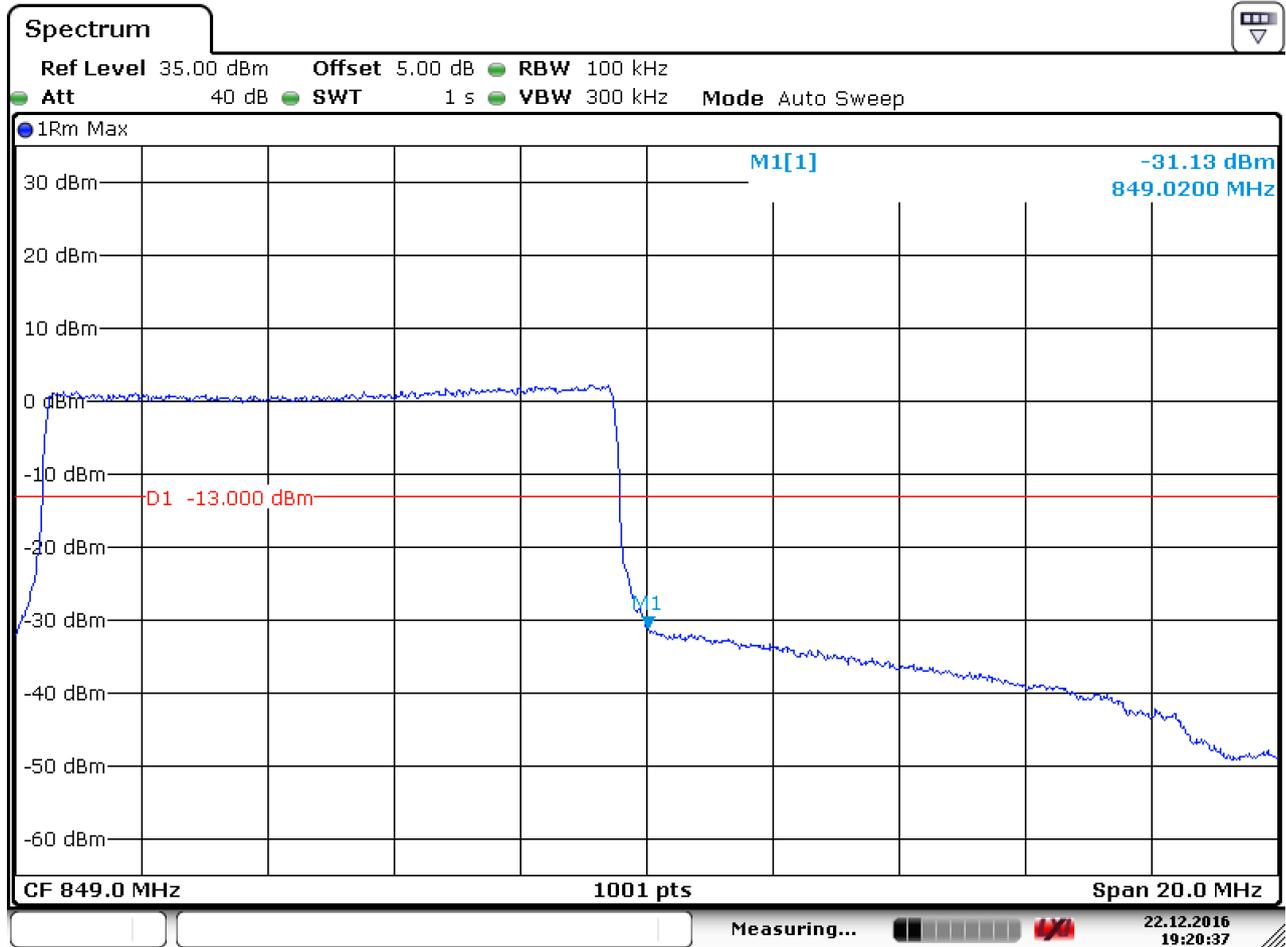
5.1.1.8.2.1 Test RB=1RB



Date: 22.DEC.2016 19:20:11



5.1.1.8.2.2 Test RB=50RB



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6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

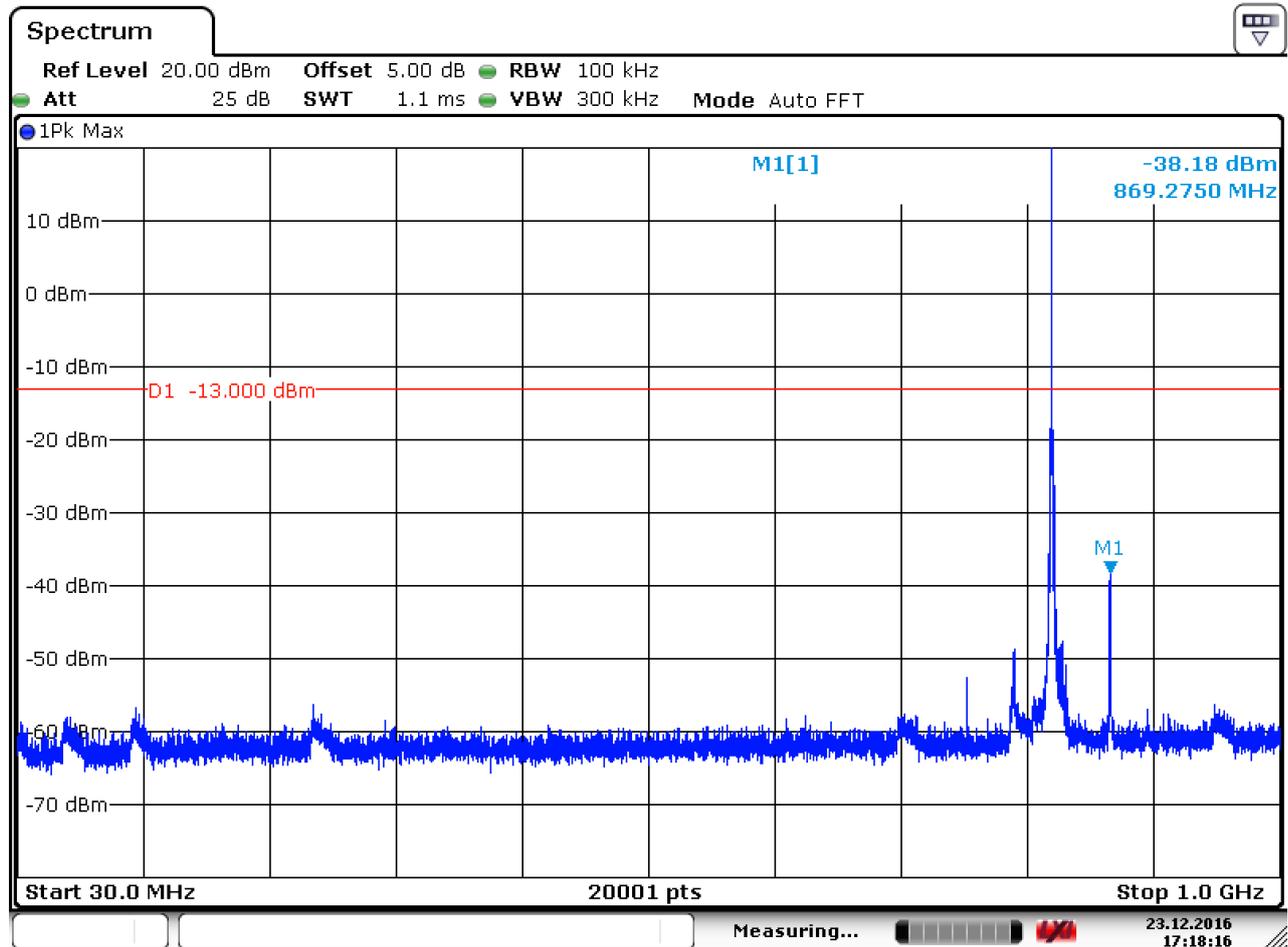
Part I - Test Plots

6.1 For LTE

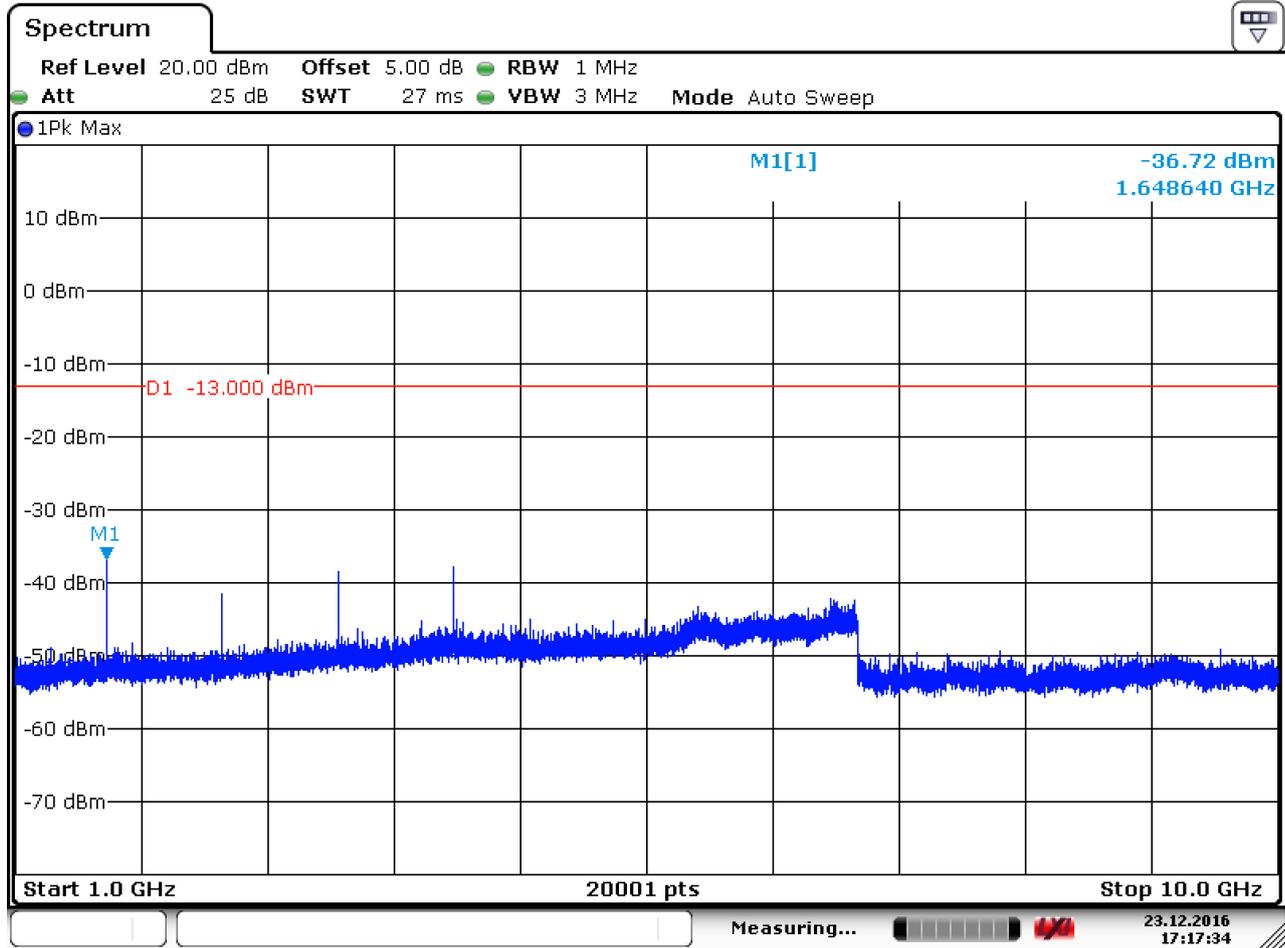
6.1.1 Test Band = LTE band5

6.1.1.1 Test Mode = LTE / TM1 1.4MHz RB1#0

6.1.1.1.1 Test Channel = LCH



Date: 23.DEC.2016 17:18:16

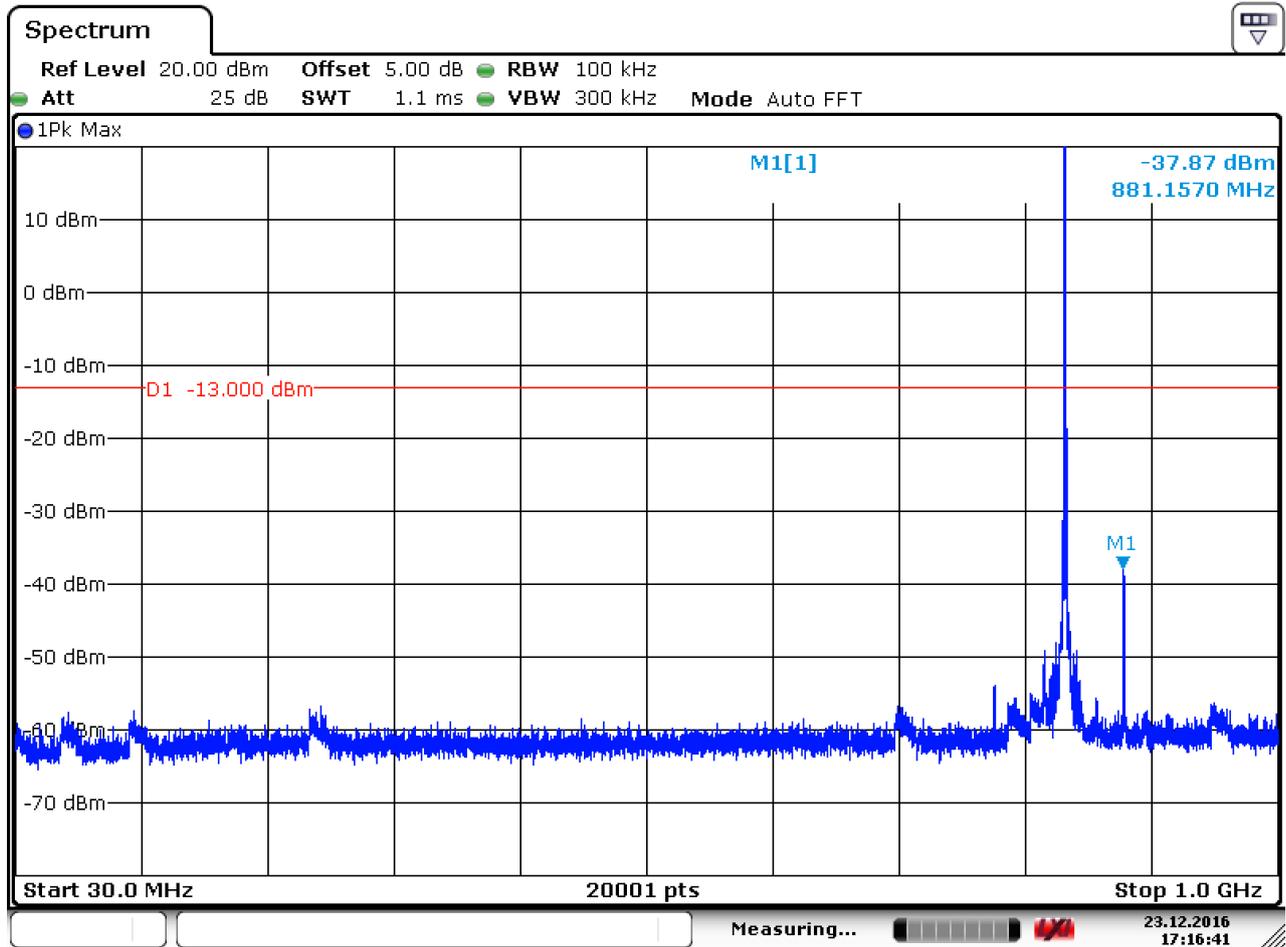


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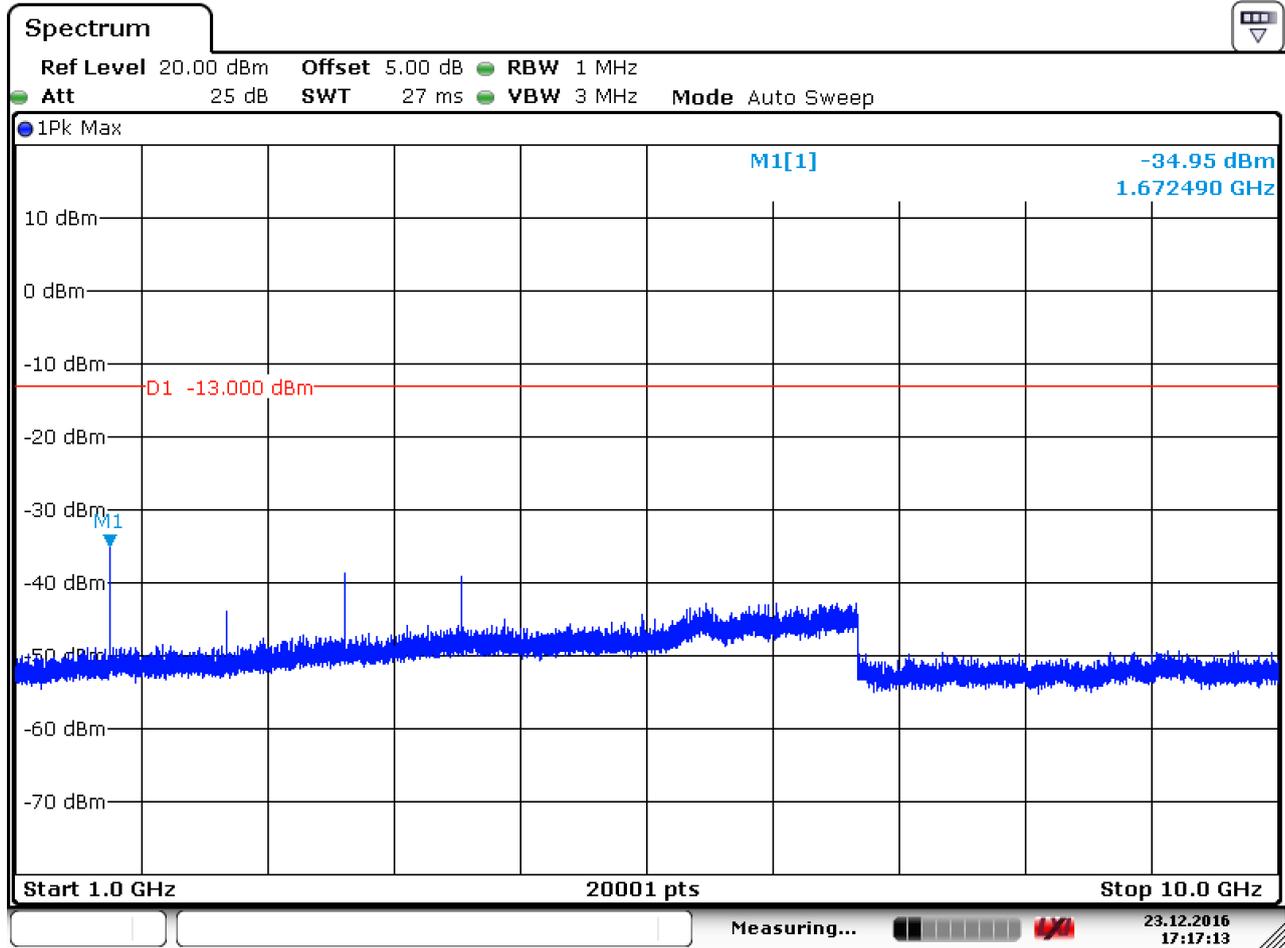


6.1.1.1.2 Test Channel = MCH



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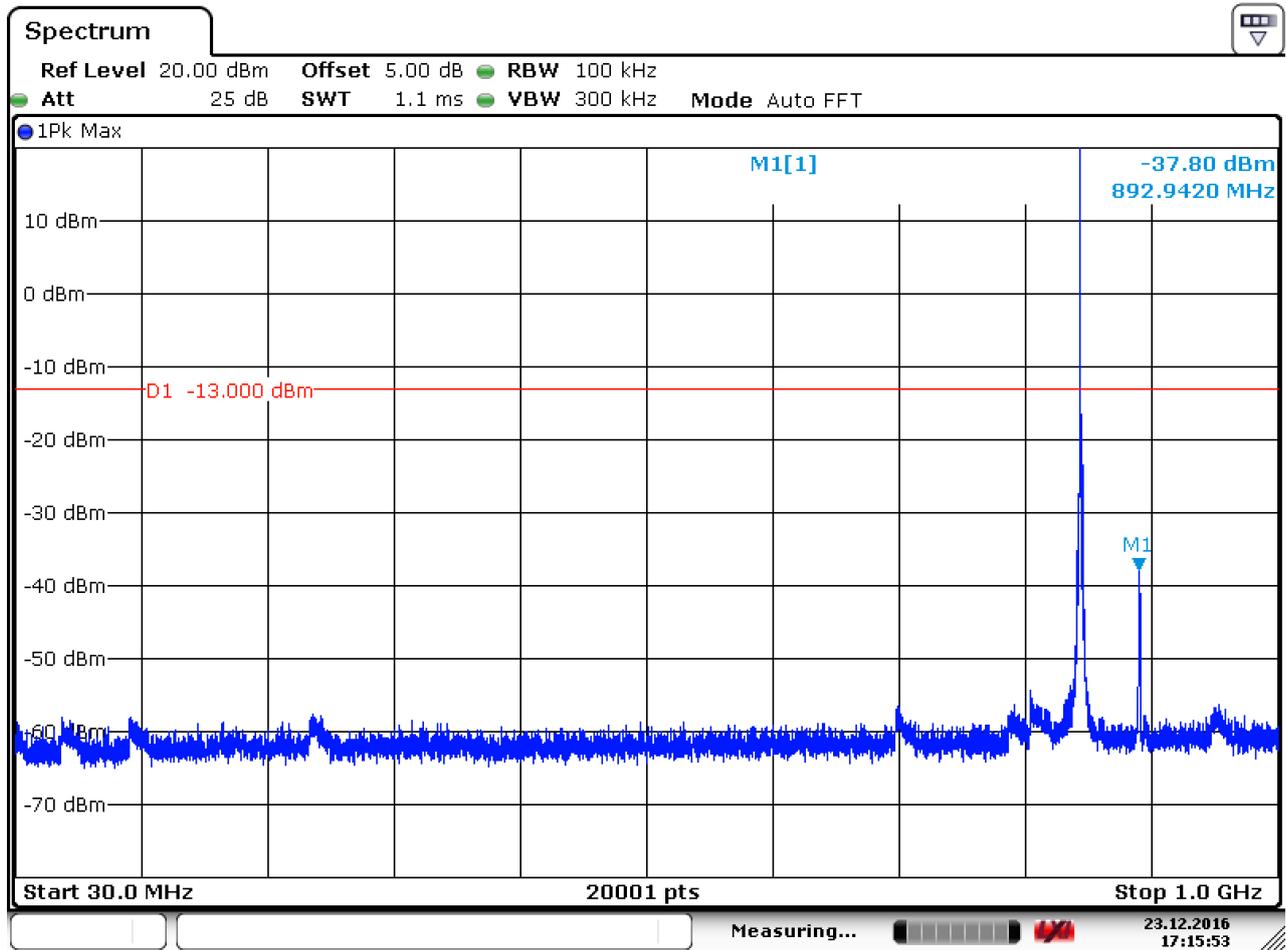


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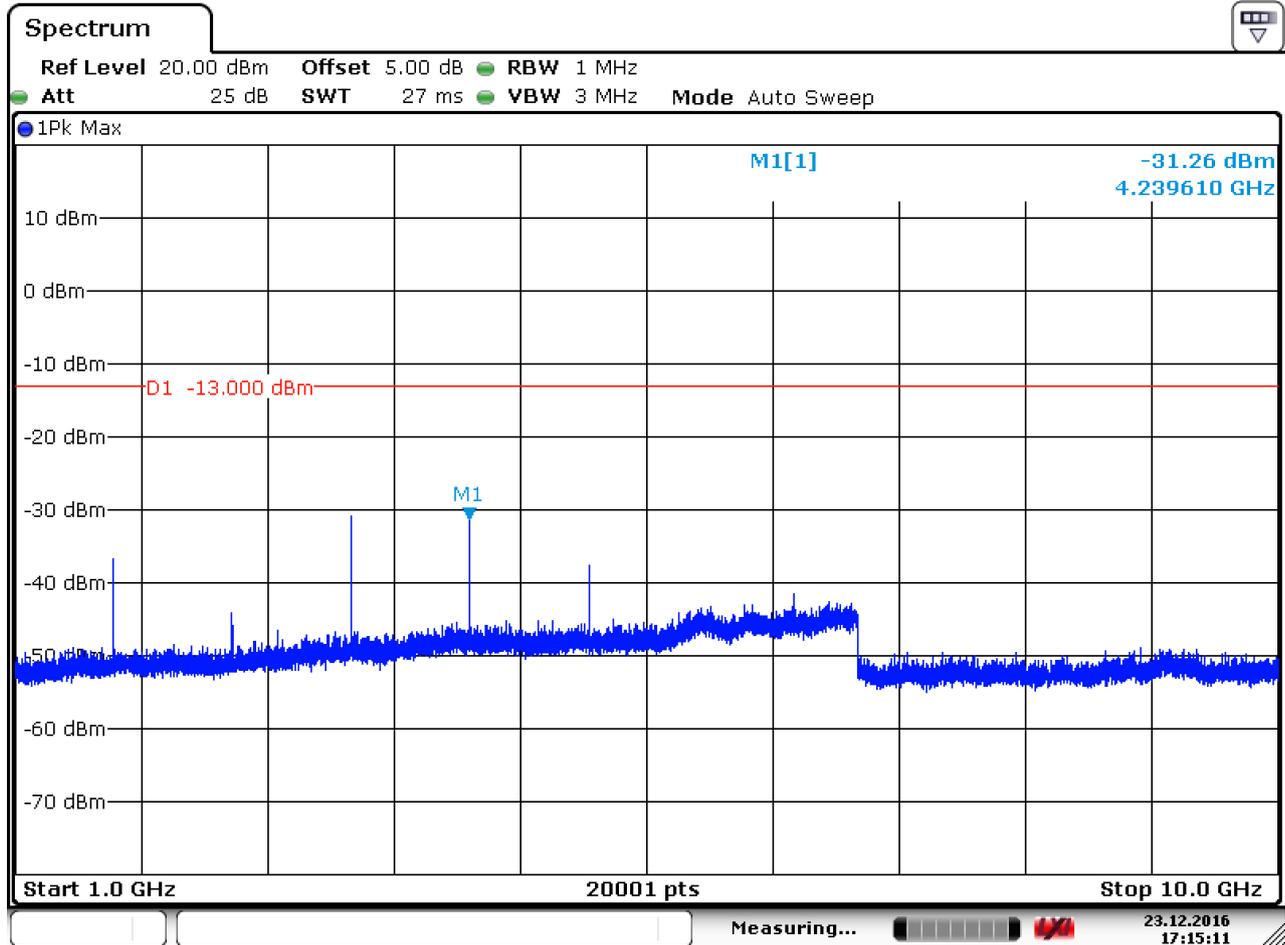


6.1.1.1.3 Test Channel = HCH



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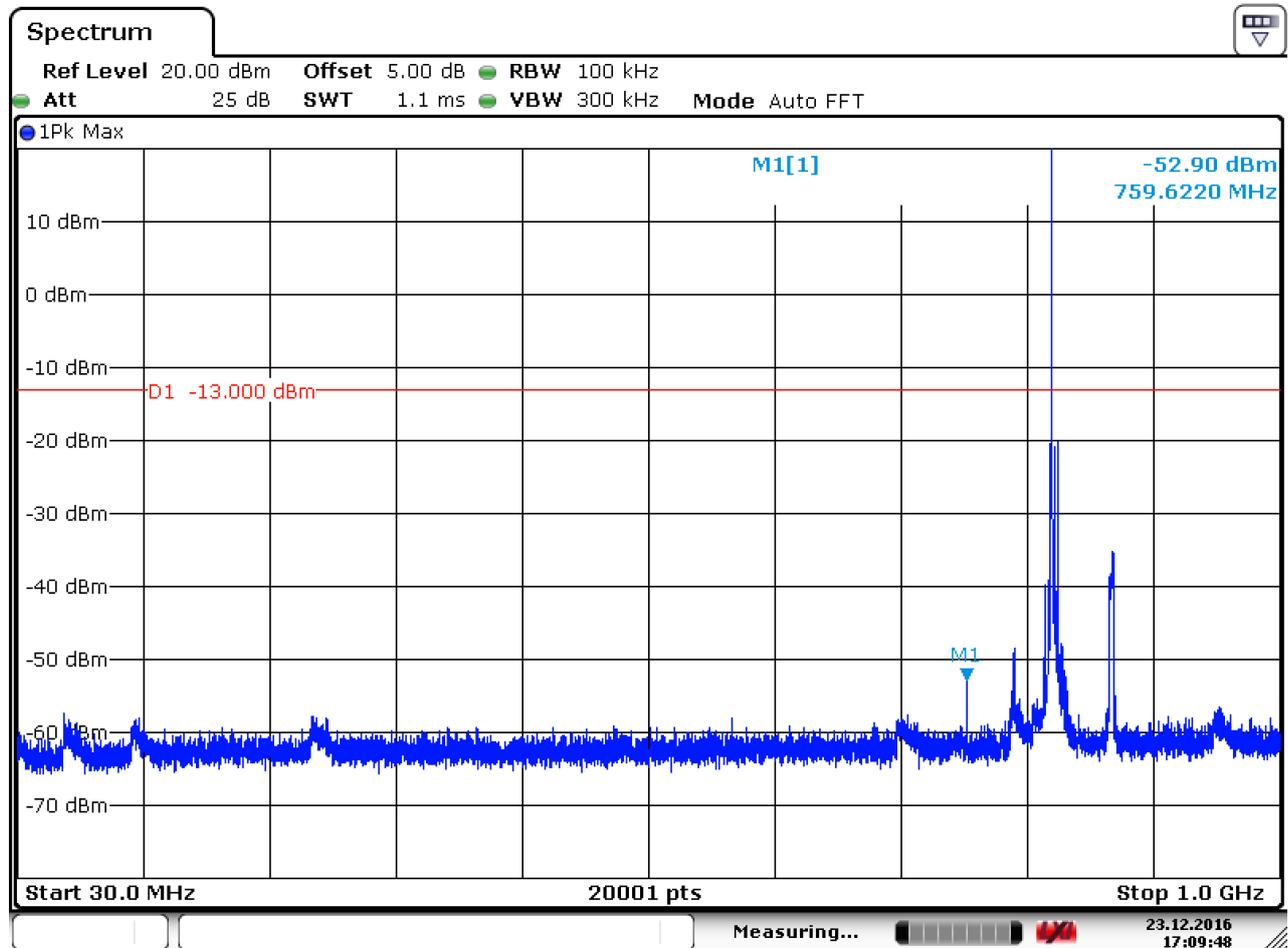
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6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

6.1.1.2.1 Test Channel = LCH

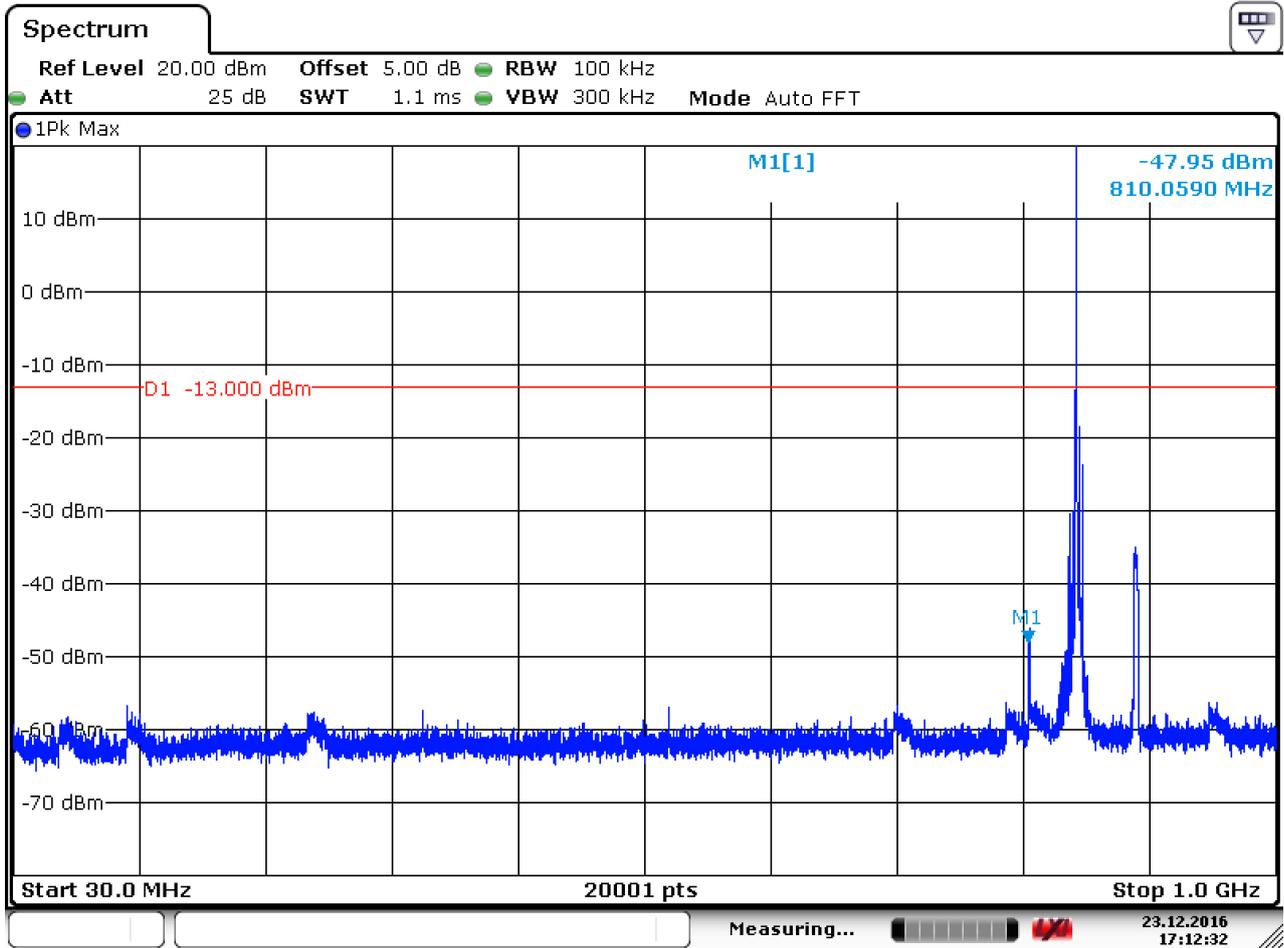


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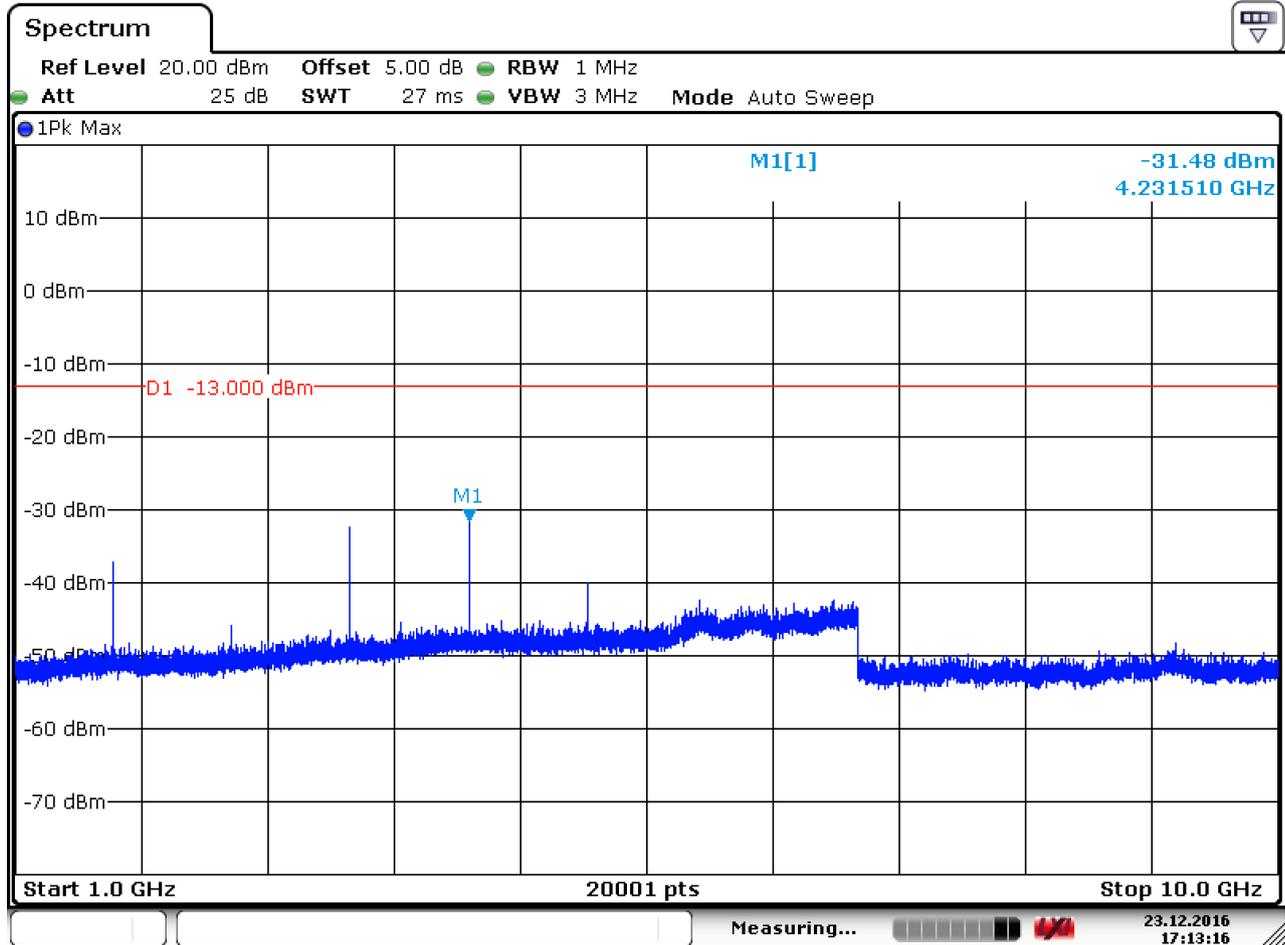


6.1.1.2.3 Test Channel = HCH



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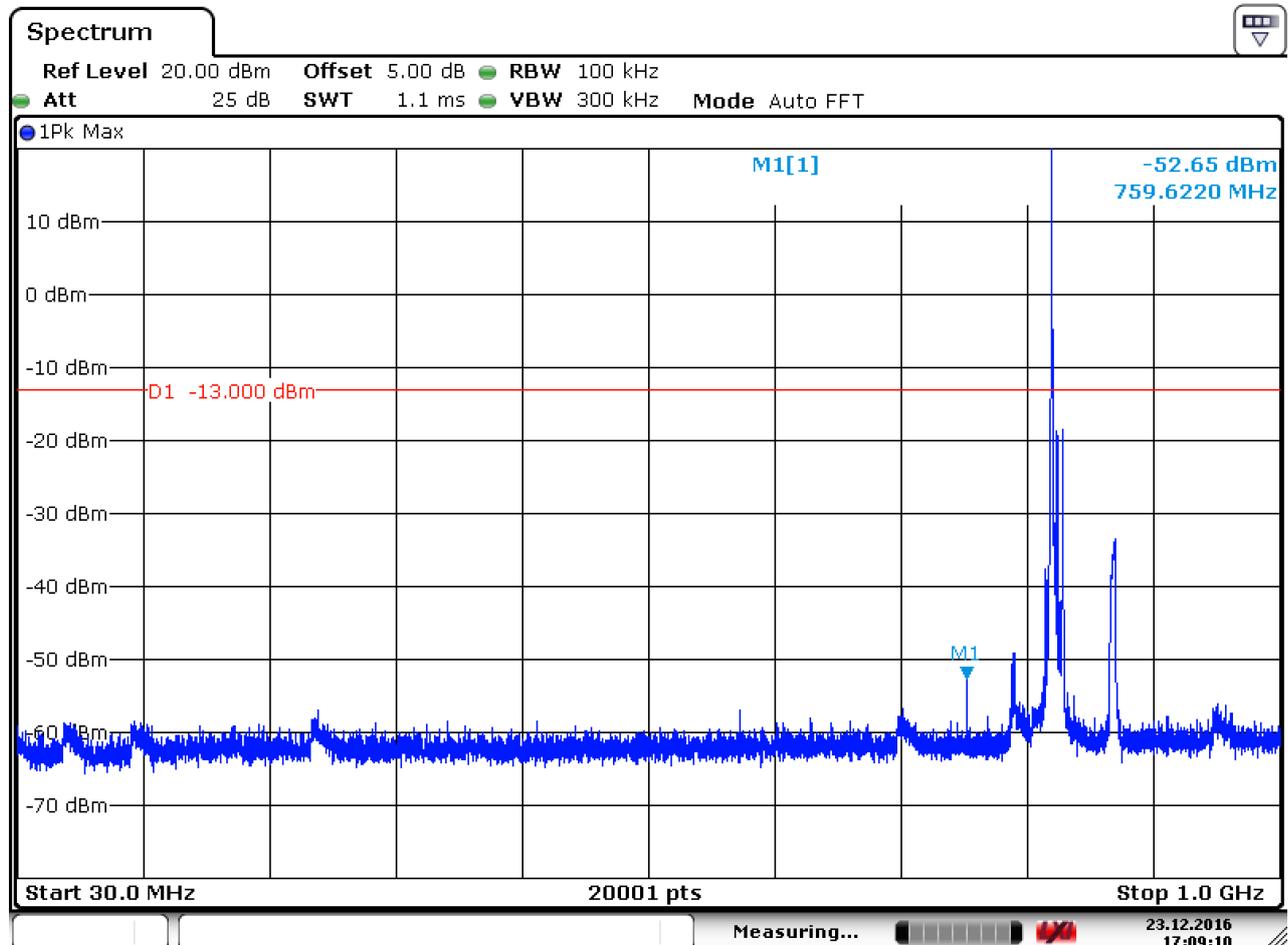
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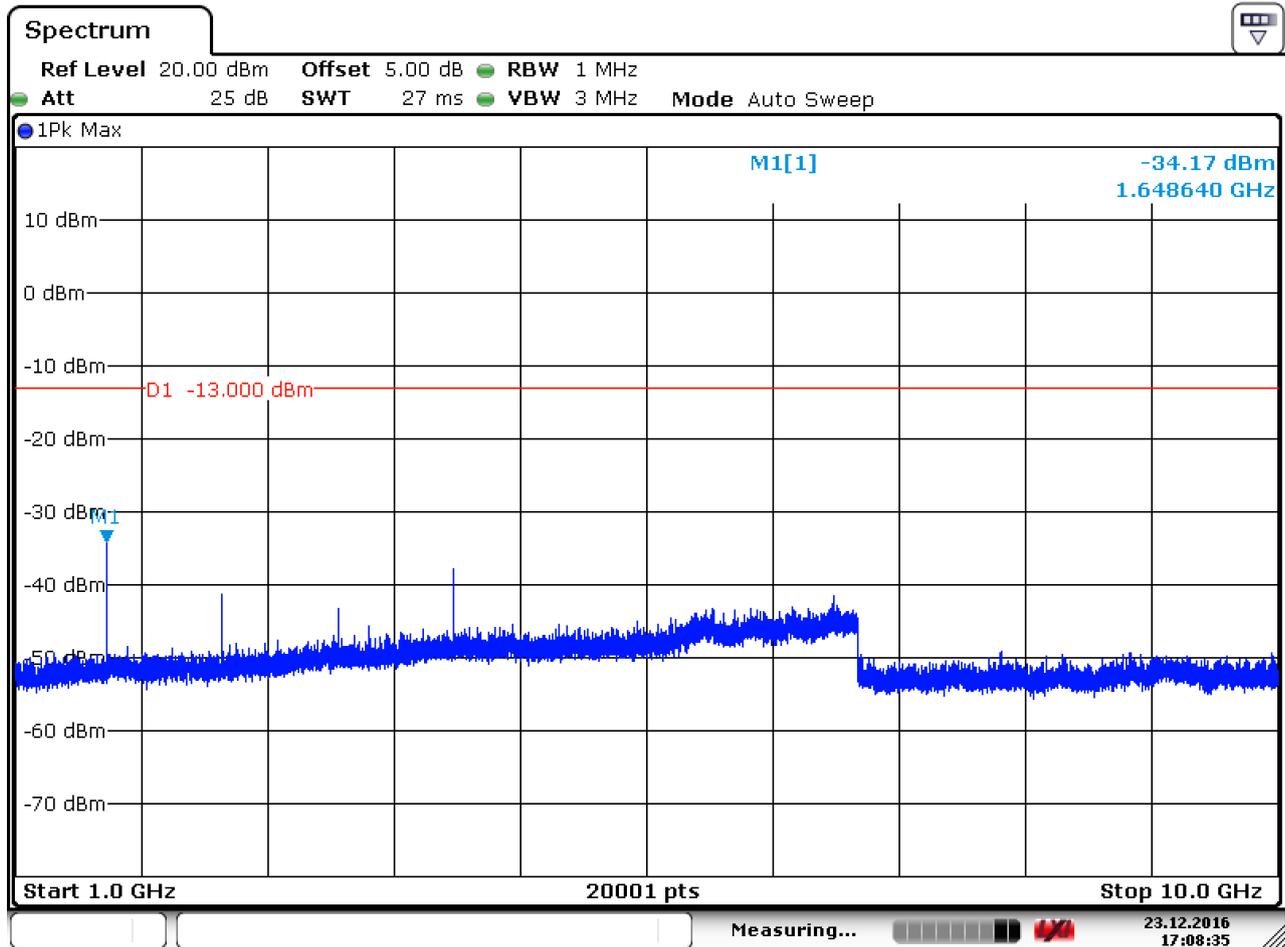
6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.3.1 Test Channel = LCH



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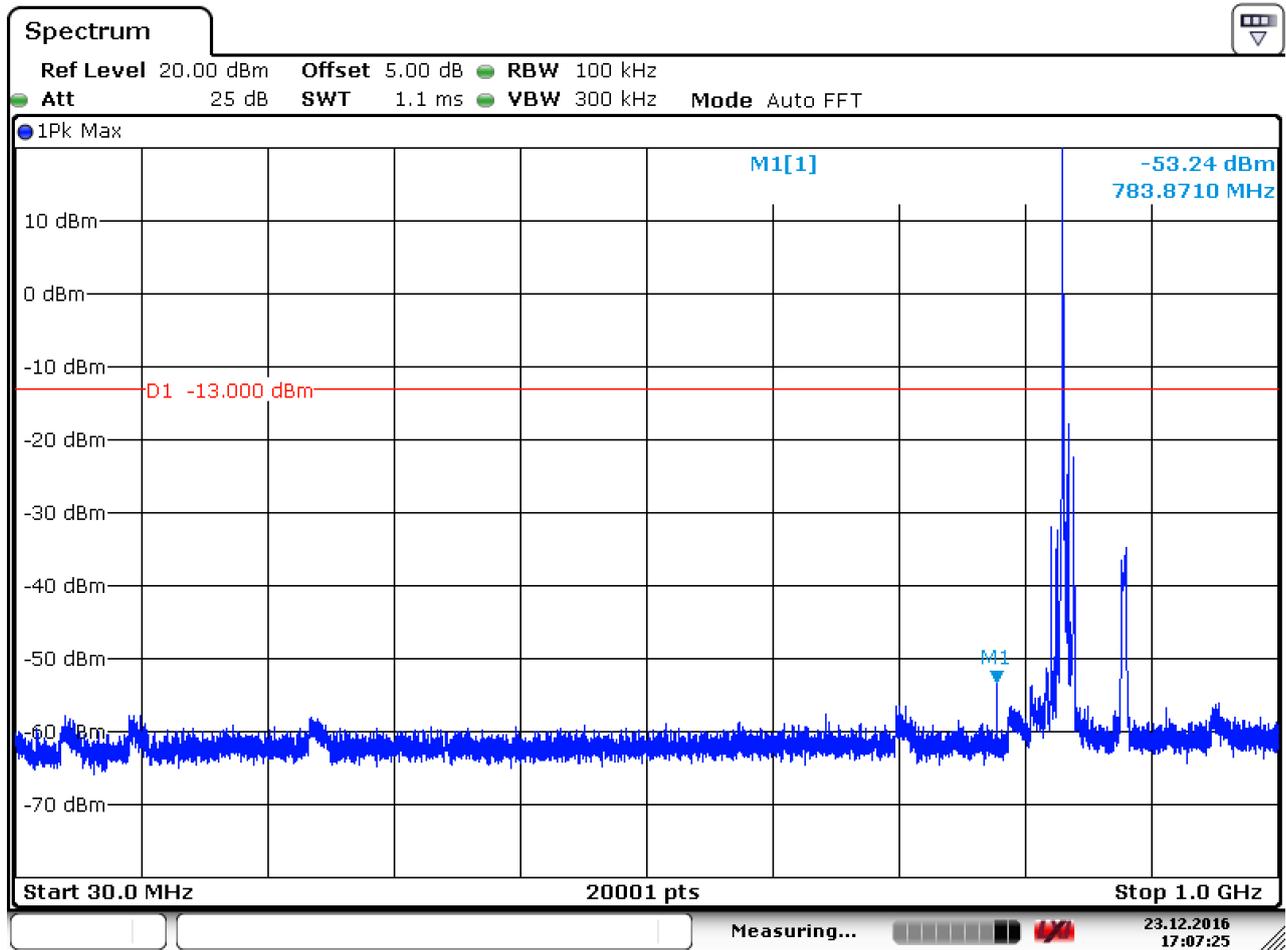


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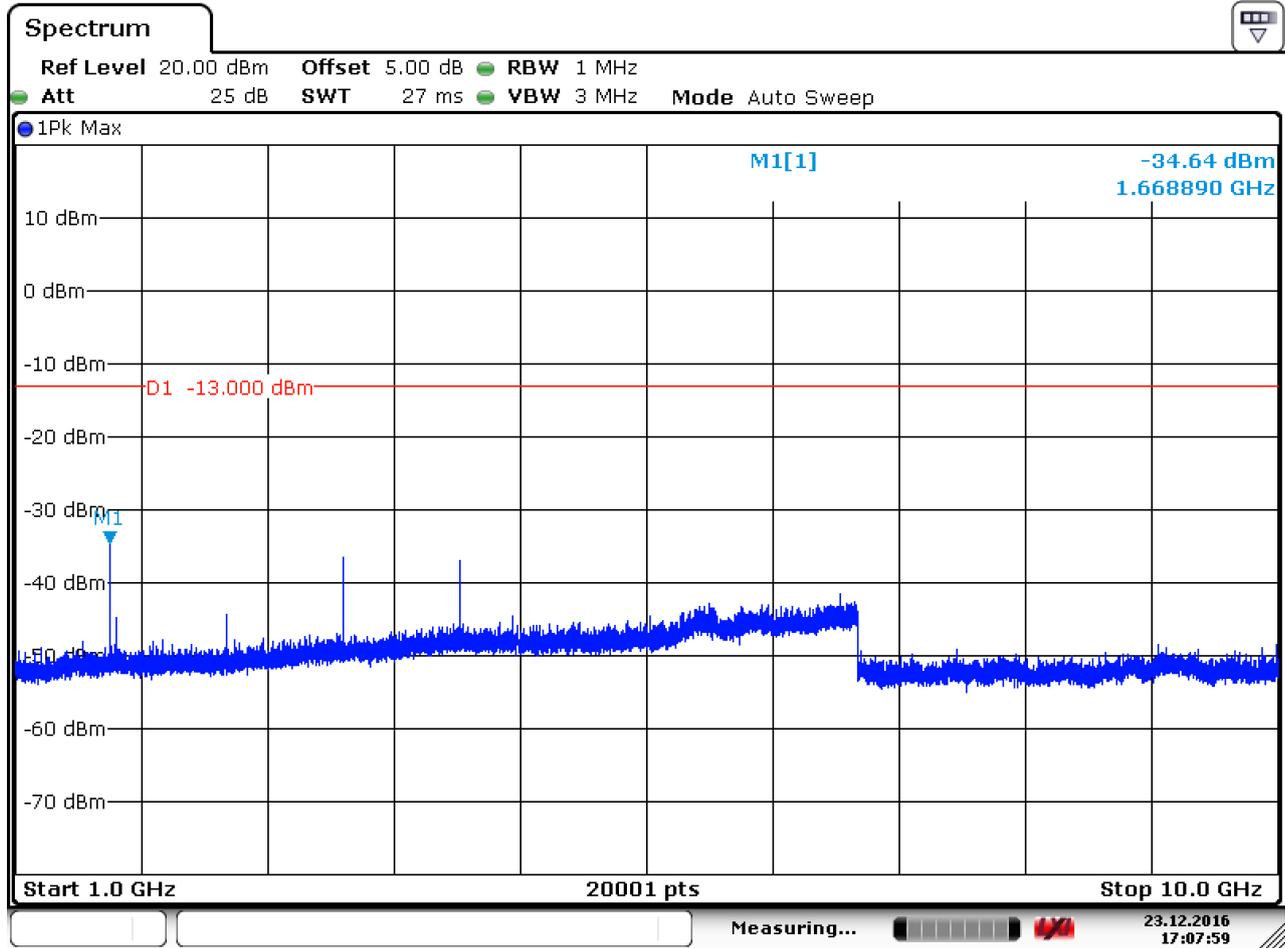


6.1.1.3.2 Test Channel = MCH



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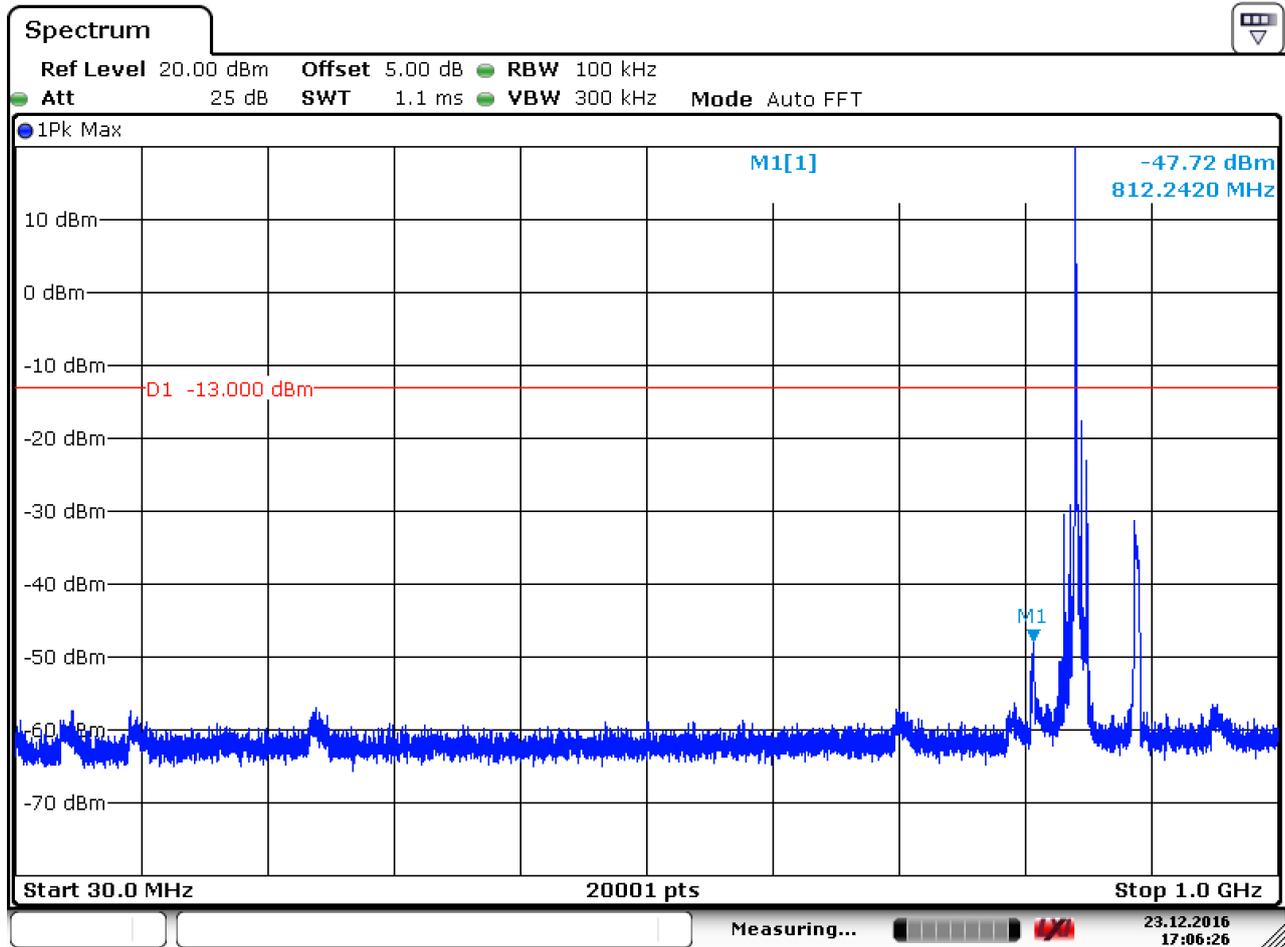


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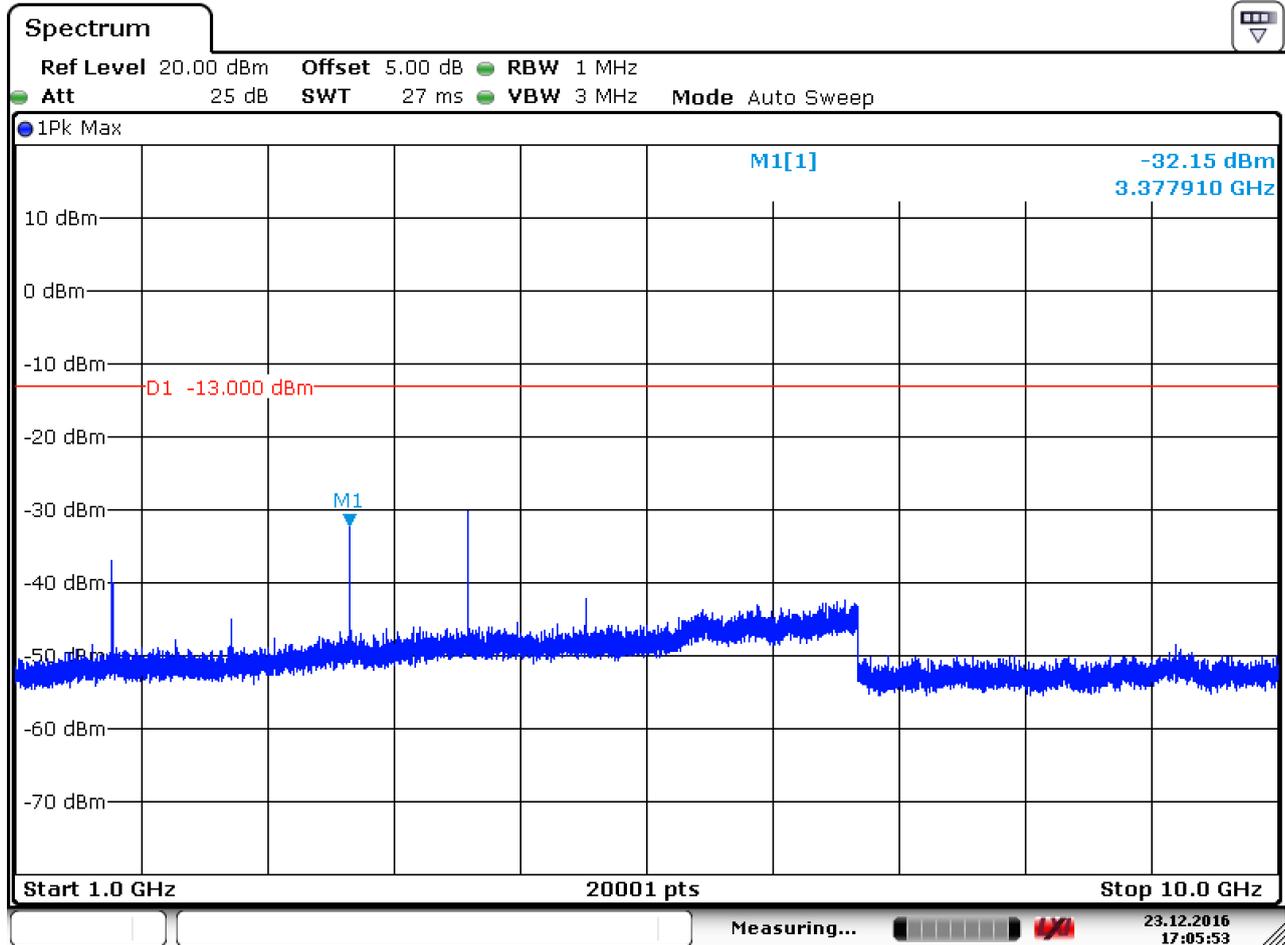


6.1.1.3.3 Test Channel = HCH



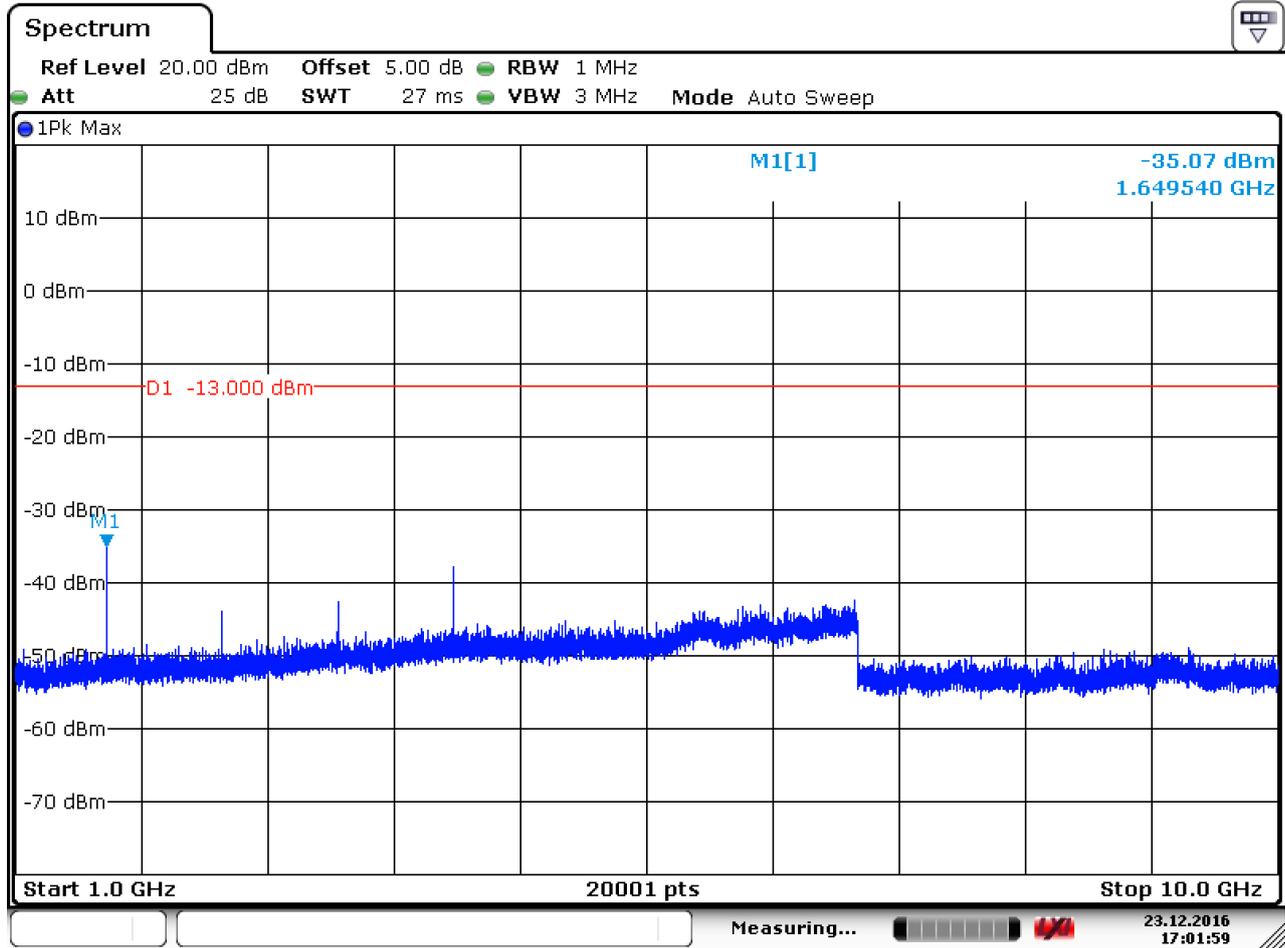
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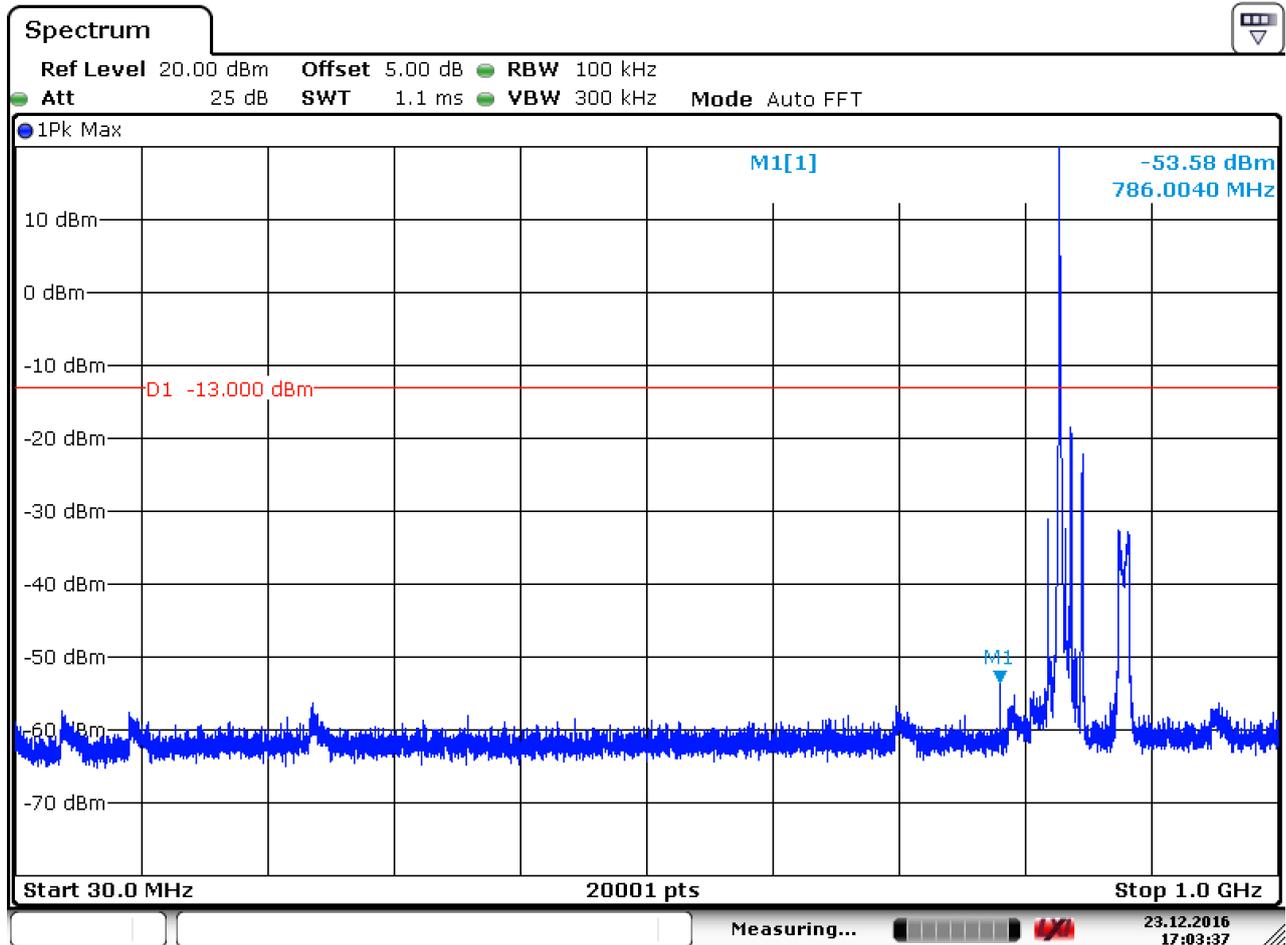


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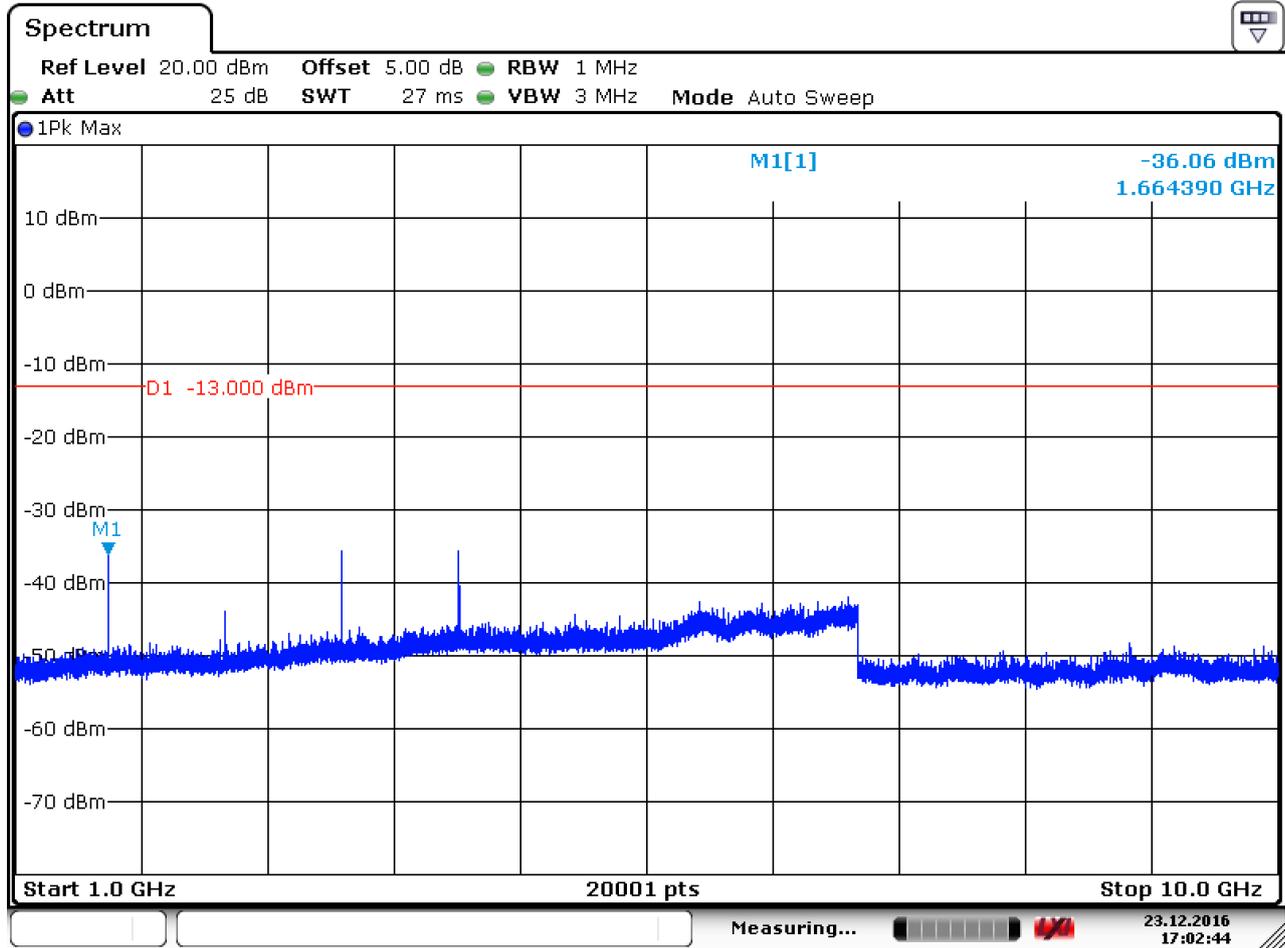


6.1.1.4.2 Test Channel = MCH



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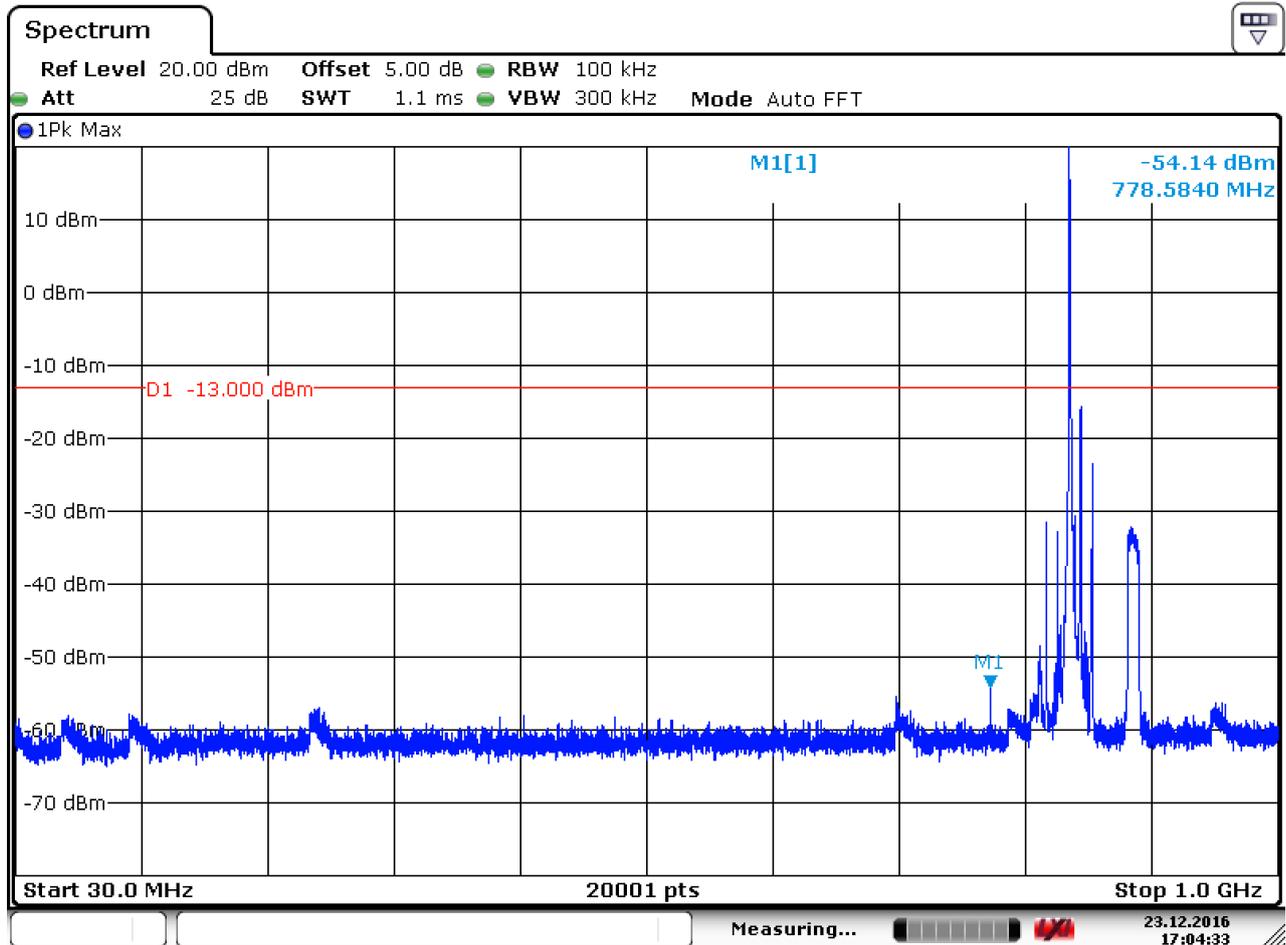


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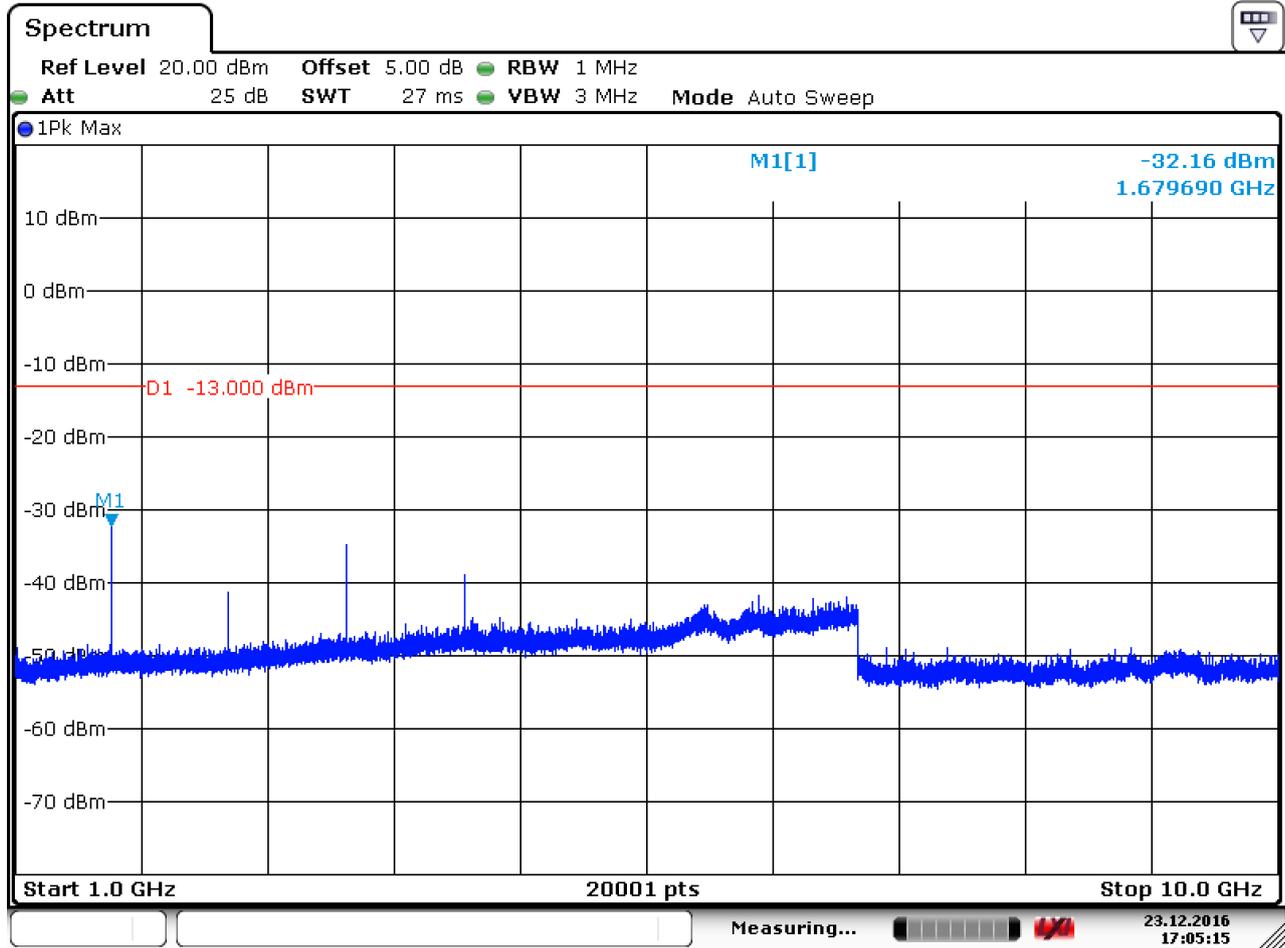


6.1.1.4.3 Test Channel = HCH



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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band5

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1903.000	-59.18	-13.00	46.18	Vertical
2320.000	-59.61	-13.00	46.61	Vertical
4657.500	-68.03	-13.00	55.03	Vertical
1837.000	-63.13	-13.00	50.13	Horizontal
2488.000	-59.08	-13.00	46.08	Horizontal
3390.000	-70.45	-13.00	57.45	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2280.000	-59.42	-13.00	46.42	Vertical
3195.000	-69.43	-13.00	56.43	Vertical
4852.500	-67.48	-13.00	54.48	Vertical
1892.000	-59.69	-13.00	46.69	Horizontal
2424.000	-58.95	-13.00	45.95	Horizontal
4072.500	-68.78	-13.00	55.78	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2112.000	-61.77	-13.00	48.77	Vertical
4267.500	-67.86	-13.00	54.86	Vertical
6900.000	-66.04	-13.00	53.04	Vertical
3390.000	-70.47	-13.00	57.47	Horizontal
4170.000	-68.12	-13.00	55.12	Horizontal
5632.500	-67.40	-13.00	54.40	Horizontal

NOTE:

- 1) All modes are tested, but the data presented above is the worst case. The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band 5	LTE/TM1 10MHz	LCH	TN	VL	-3.28	-0.00396	PASS
				VN	1.46	0.00176	PASS
				VH	-5.72	-0.00690	PASS
		MCH	TN	VL	5.29	0.00632	PASS
				VN	-3.80	-0.00454	PASS
				VH	1.63	0.00195	PASS
		HCH	TN	VL	-4.26	-0.00505	PASS
				VN	-5.07	-0.00601	PASS
				VH	-2.79	-0.00331	PASS
	LTE/TM2 10MHz	LCH	TN	VL	-4.18	-0.00504	PASS
				VN	-2.45	-0.00296	PASS
				VH	-5.26	-0.00634	PASS
		MCH	TN	VL	1.56	0.00186	PASS
				VN	-2.85	-0.00341	PASS
				VH	1.59	0.00190	PASS
		HCH	TN	VL	-4.38	-0.00519	PASS
				VN	-7.20	-0.00853	PASS
				VH	-3.24	-0.00384	PASS

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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband5	LTE/TM1 10MHz	LCH	VN	-30	-2.63	-0.00317	PASS
				-20	-3.31	-0.00399	PASS
				-10	2.38	0.00287	PASS
				0	3.75	0.00452	PASS
				10	1.65	0.00199	PASS
				20	-4.11	-0.00496	PASS
				30	-2.31	-0.00279	PASS
				40	-3.14	-0.00379	PASS
				50	2.54	0.00306	PASS
		MCH	VN	-30	-5.30	-0.00634	PASS
				-20	-6.92	-0.00827	PASS
				-10	-3.49	-0.00417	PASS
				0	-5.62	-0.00672	PASS
				10	-2.04	-0.00244	PASS
				20	-2.90	-0.00347	PASS
				30	-5.66	-0.00677	PASS
				40	-7.34	-0.00877	PASS
				50	-3.59	-0.00429	PASS
		HCH	VN	-30	2.54	0.00301	PASS
				-20	-1.49	-0.00177	PASS
				-10	1.50	0.00178	PASS
				0	-2.44	-0.00289	PASS
				10	2.60	0.00308	PASS
				20	-4.57	-0.00541	PASS
30	-2.46			-0.00291	PASS		
40	-5.63			-0.00667	PASS		
50	-4.22			-0.00500	PASS		



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Shenzhen Branch**

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband5	LTE/TM2 10MHz	LCH	VN	-30	-3.24	-0.00391	PASS
				-20	-5.45	-0.00657	PASS
				-10	3.38	0.00408	PASS
				0	2.53	0.00305	PASS
				10	1.70	0.00205	PASS
				20	-0.23	-0.00028	PASS
				30	-3.44	-0.00415	PASS
				40	-5.22	-0.00630	PASS
		MCH	VN	-30	-3.84	-0.00459	PASS
				-20	-2.38	-0.00285	PASS
				-10	-7.66	-0.00916	PASS
				0	-3.32	-0.00397	PASS
				10	-0.17	-0.00020	PASS
				20	1.44	0.00172	PASS
				30	-4.69	-0.00561	PASS
				40	-2.47	-0.00295	PASS
		HCH	VN	-30	1.44	0.00171	PASS
				-20	-2.55	-0.00302	PASS
				-10	4.59	0.00544	PASS
				0	-3.88	-0.00460	PASS
				10	2.28	0.00270	PASS
				20	-1.47	-0.00174	PASS
				30	-4.50	-0.00533	PASS
				40	-4.23	-0.00501	PASS
				50	-3.80	-0.00450	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband2	LTE/TM3 20MHz	LCH	VN	-30	1.50	0.00081	PASS
				-20	-1.60	-0.00086	PASS
				-10	4.38	0.00235	PASS
				0	1.69	0.00091	PASS
				10	1.43	0.00077	PASS
				20	0.54	0.00029	PASS
				30	-2.61	-0.00140	PASS
				40	-0.69	-0.00037	PASS
		MCH	VN	50	3.52	0.00189	PASS
				-30	-7.34	-0.00390	PASS
				-20	-5.33	-0.00284	PASS
				-10	-7.23	-0.00385	PASS
				0	-5.34	-0.00284	PASS
				10	-4.04	-0.00215	PASS
				20	-6.34	-0.00337	PASS
				30	-5.26	-0.00280	PASS
		HCH	VN	40	-4.13	-0.00220	PASS
				50	-6.47	-0.00344	PASS
				-30	2.34	0.00123	PASS
				-20	-1.83	-0.00096	PASS
				-10	1.57	0.00083	PASS
				0	-2.43	-0.00128	PASS
				10	1.60	0.00084	PASS
				20	-0.57	-0.00030	PASS
30	0.66	0.00035	PASS				
40	-5.43	-0.00286	PASS				
50	-5.90	-0.00311	PASS				

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