



Appendix B

Test Data for SZEM1611009400RG



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1 Effective (Isotropic) Radiated Power Output Data

Part 16–Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 17

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND17	LTE/TM1	5M	LCH	RB1#0	22.96	22.86	34.77	PASS
				RB1#13	23.03	22.93	34.77	PASS
				RB1#24	22.96	22.86	34.77	PASS
				RB12#0	21.97	21.87	34.77	PASS
				RB12#6	21.99	21.89	34.77	PASS
				RB12#13	21.97	21.87	34.77	PASS
				RB25#0	21.98	21.88	34.77	PASS
			MCH	RB1#0	22.97	22.87	34.77	PASS
				RB1#13	22.99	22.89	34.77	PASS
				RB1#24	22.92	22.82	34.77	PASS
				RB12#0	22.03	21.93	34.77	PASS
				RB12#6	22.03	21.93	34.77	PASS
				RB12#13	22.03	21.93	34.77	PASS
				RB25#0	22.03	21.93	34.77	PASS
			HCH	RB1#0	23.06	22.96	34.77	PASS
				RB1#13	23.13	23.03	34.77	PASS
				RB1#24	23.02	22.92	34.77	PASS
				RB12#0	23.01	22.91	34.77	PASS
				RB12#6	22.02	21.92	34.77	PASS
				RB12#13	21.98	21.88	34.77	PASS
				RB25#0	21.99	21.89	34.77	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND17	LTE/TM2	5M	LCH	RB1#0	22.23	22.13	34.77	PASS
				RB1#13	22.25	22.15	34.77	PASS
				RB1#24	22.21	22.11	34.77	PASS
				RB12#0	21.00	20.90	34.77	PASS
				RB12#6	21.10	21.00	34.77	PASS
				RB12#13	20.99	20.89	34.77	PASS
				RB25#0	20.99	20.89	34.77	PASS
			MCH	RB1#0	22.34	22.24	34.77	PASS
				RB1#13	22.12	22.02	34.77	PASS
				RB1#24	22.31	22.21	34.77	PASS
				RB12#0	21.03	20.93	34.77	PASS
				RB12#6	21.10	21.00	34.77	PASS
				RB12#13	21.03	20.93	34.77	PASS
				RB25#0	21.05	20.95	34.77	PASS
			HCH	RB1#0	22.09	21.99	34.77	PASS
				RB1#13	22.31	22.21	34.77	PASS
				RB1#24	22.08	21.98	34.77	PASS
				RB12#0	20.99	20.89	34.77	PASS
				RB12#6	21.04	20.94	34.77	PASS
				RB12#13	20.98	20.88	34.77	PASS
				RB25#0	21.04	20.94	34.77	PASS

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BAND17	LTE/TM3	5M	LCH	RB1#0	21.27	21.17	34.77	PASS
				RB1#13	21.28	21.18	34.77	PASS
				RB1#24	21.21	21.11	34.77	PASS
				RB12#0	19.96	19.86	34.77	PASS
				RB12#6	19.97	19.87	34.77	PASS
				RB12#13	19.96	19.86	34.77	PASS
				RB25#0	19.90	19.80	34.77	PASS
			MCH	RB1#0	21.07	20.97	34.77	PASS
				RB1#13	21.11	21.01	34.77	PASS
				RB1#24	21.06	20.96	34.77	PASS
				RB12#0	20.07	19.97	34.77	PASS
				RB12#6	20.08	19.98	34.77	PASS
				RB12#13	20.02	19.92	34.77	PASS
				RB25#0	20.06	19.96	34.77	PASS
			HCH	RB1#0	21.52	21.42	34.77	PASS
				RB1#13	21.62	21.52	34.77	PASS
				RB1#24	21.53	21.43	34.77	PASS
				RB12#0	20.13	20.03	34.77	PASS
				RB12#6	20.13	20.03	34.77	PASS
				RB12#13	20.10	20.00	34.77	PASS
				RB25#0	19.94	19.84	34.77	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND17	LTE/TM1	10M	LCH	RB1#0	23.04	22.94	34.77	PASS
				RB1#25	23.01	22.91	34.77	PASS
				RB1#49	22.96	22.86	34.77	PASS
				RB25#0	22.03	21.93	34.77	PASS
				RB25#13	22.08	21.98	34.77	PASS
				RB25#25	22.01	21.91	34.77	PASS
				RB50#0	22.05	21.95	34.77	PASS
			MCH	RB1#0	22.96	22.86	34.77	PASS
				RB1#25	22.93	22.83	34.77	PASS
				RB1#49	22.90	22.80	34.77	PASS
				RB25#0	22.02	21.92	34.77	PASS
				RB25#13	22.02	21.92	34.77	PASS
				RB25#25	21.98	21.88	34.77	PASS
				RB50#0	22.01	21.91	34.77	PASS
			HCH	RB1#0	22.96	22.86	34.77	PASS
				RB1#25	22.94	22.84	34.77	PASS
				RB1#49	22.90	22.80	34.77	PASS
				RB25#0	22.06	21.96	34.77	PASS
				RB25#13	22.08	21.98	34.77	PASS
				RB25#25	22.02	21.92	34.77	PASS
				RB50#0	22.02	21.92	34.77	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND17	LTE/TM2	10M	LCH	RB1#0	22.41	22.31	34.77	PASS
				RB1#25	21.94	21.84	34.77	PASS
				RB1#49	22.30	22.20	34.77	PASS
				RB25#0	21.04	20.94	34.77	PASS
				RB25#13	21.07	20.97	34.77	PASS
				RB25#25	21.01	20.91	34.77	PASS
				RB50#0	21.11	21.01	34.77	PASS
			MCH	RB1#0	22.17	22.07	34.77	PASS
				RB1#25	22.13	22.03	34.77	PASS
				RB1#49	22.08	21.98	34.77	PASS
				RB25#0	21.06	20.96	34.77	PASS
				RB25#13	21.02	20.92	34.77	PASS
				RB25#25	21.01	20.91	34.77	PASS
				RB50#0	21.01	20.91	34.77	PASS
			HCH	RB1#0	22.24	22.14	34.77	PASS
				RB1#25	22.42	22.32	34.77	PASS
				RB1#49	22.16	22.06	34.77	PASS
				RB25#0	21.07	20.97	34.77	PASS
				RB25#13	21.10	21.00	34.77	PASS
				RB25#25	21.06	20.96	34.77	PASS
				RB50#0	21.04	20.94	34.77	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND17	LTE/TM3	10M	LCH	RB1#0	21.63	21.53	34.77	PASS
				RB1#25	21.61	21.51	34.77	PASS
				RB1#49	21.56	21.46	34.77	PASS
				RB25#0	20.07	19.97	34.77	PASS
				RB25#13	20.07	19.97	34.77	PASS
				RB25#25	20.02	19.92	34.77	PASS
				RB50#0	20.05	19.95	34.77	PASS
			MCH	RB1#0	20.86	20.76	34.77	PASS
				RB1#25	20.80	20.70	34.77	PASS
				RB1#49	20.78	20.68	34.77	PASS
				RB25#0	20.08	19.98	34.77	PASS
				RB25#13	20.07	19.97	34.77	PASS
				RB25#25	20.04	19.94	34.77	PASS
				RB50#0	20.03	19.93	34.77	PASS
			HCH	RB1#0	21.24	21.14	34.77	PASS
				RB1#25	21.20	21.10	34.77	PASS
				RB1#49	21.01	20.91	34.77	PASS
				RB25#0	20.00	19.90	34.77	PASS
				RB25#13	20.02	19.92	34.77	PASS
				RB25#25	19.95	19.85	34.77	PASS
				RB50#0	20.04	19.94	34.77	PASS

Note:

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

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$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

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

Detector: RMS



2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 17	TM1/10M	LCH	4.72	13	PASS
		MCH	4.87	13	PASS
		HCH	4.90	13	PASS
	TM2/10M	LCH	5.65	13	PASS
		MCH	5.74	13	PASS
		HCH	5.83	13	PASS
	TM3/10M	LCH	6.43	13	PASS
		MCH	6.43	13	PASS
		HCH	6.49	13	PASS



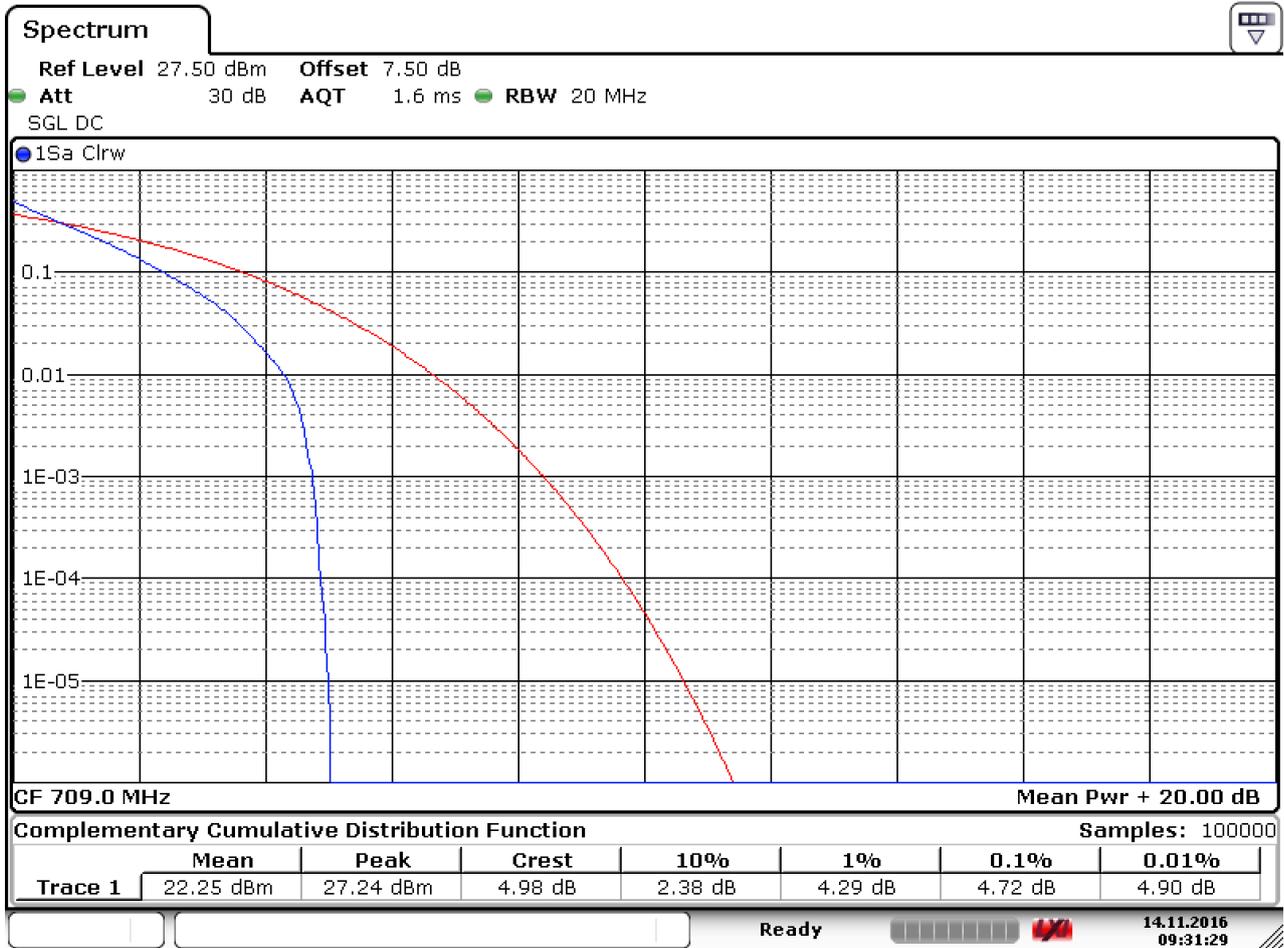
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band17

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

2.1.1.1.1 Test Channel = LCH

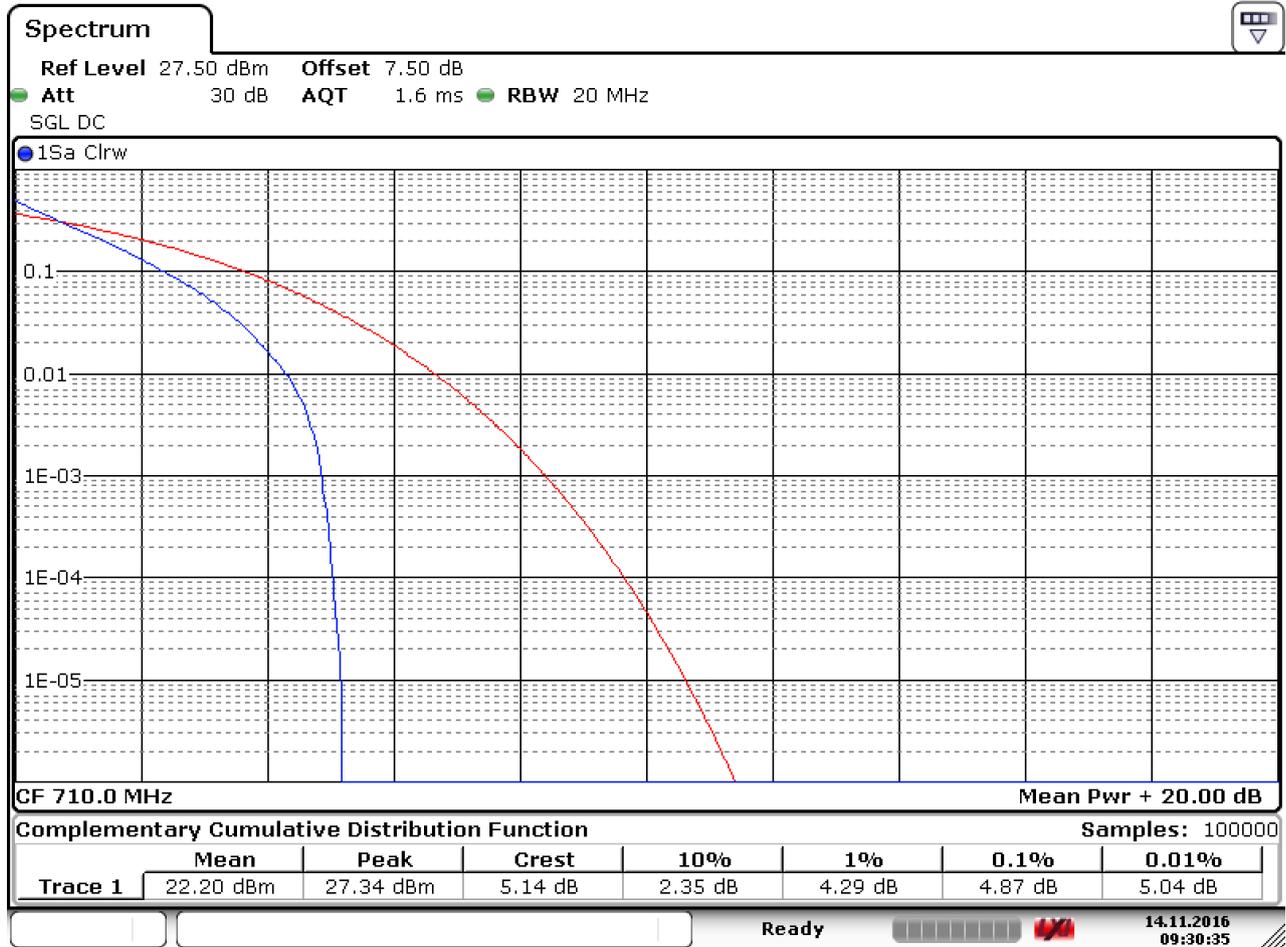


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2.1.1.1.2 Test Channel = MCH

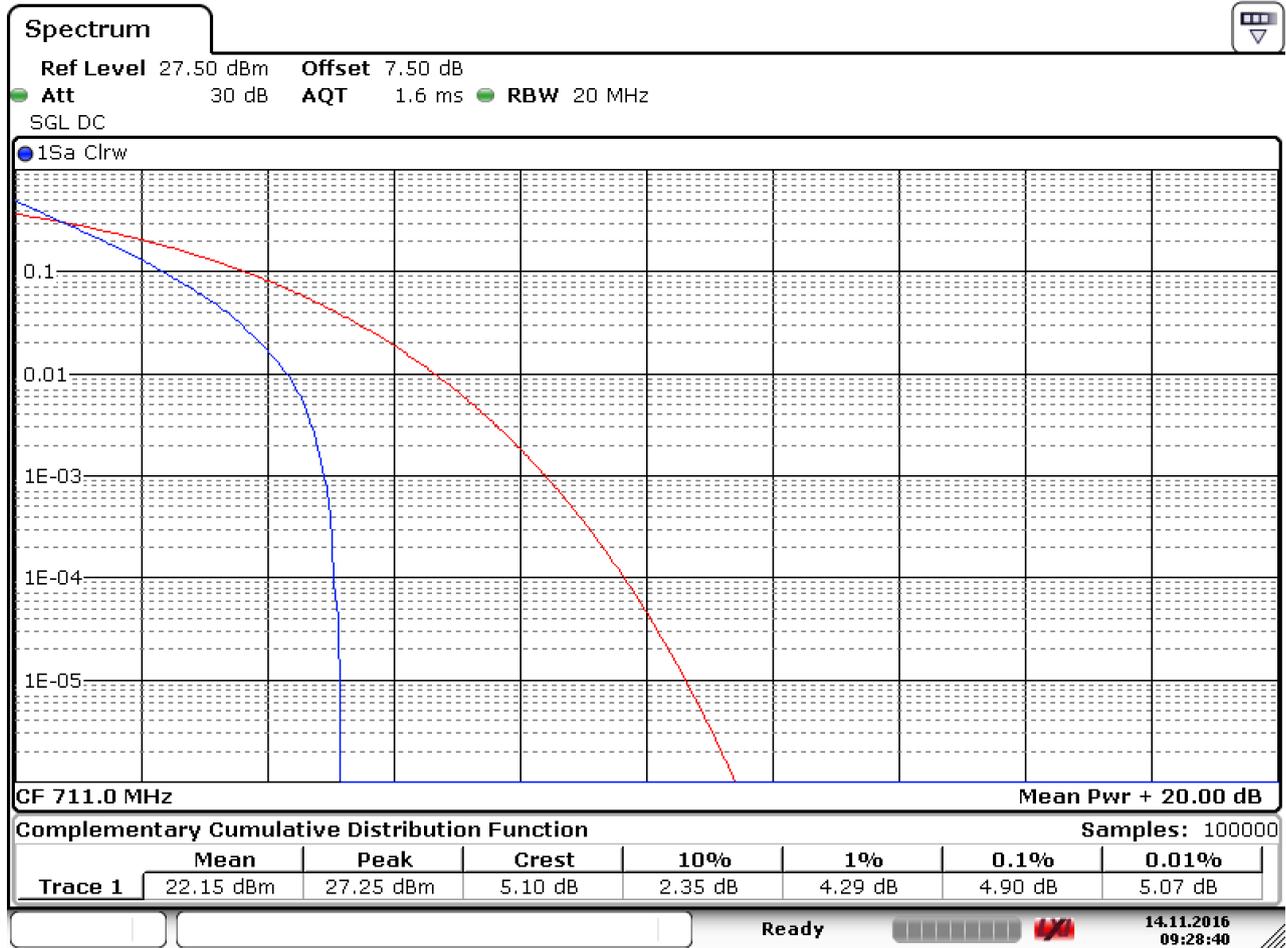


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2.1.1.1.3 Test Channel = HCH



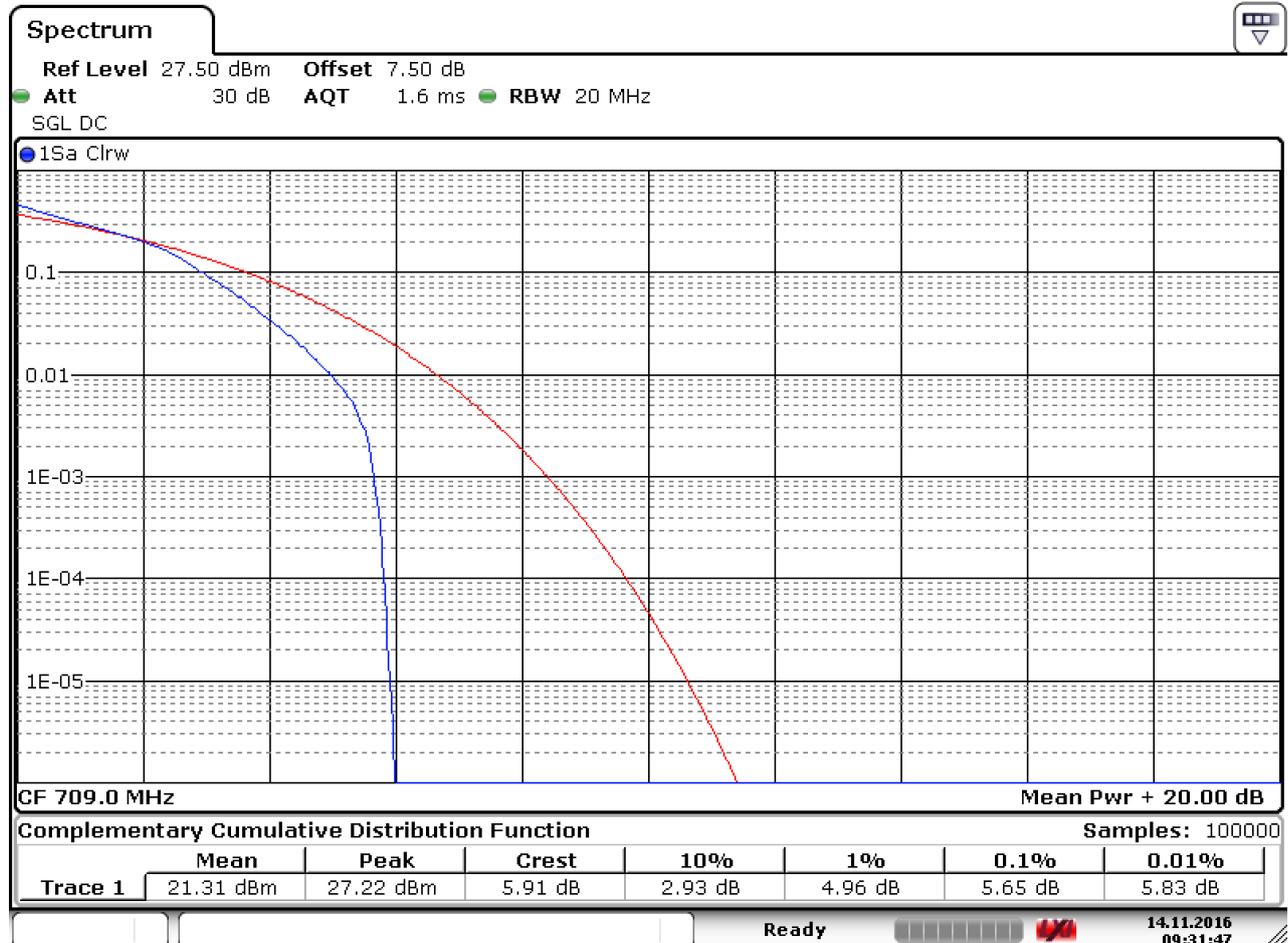
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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz

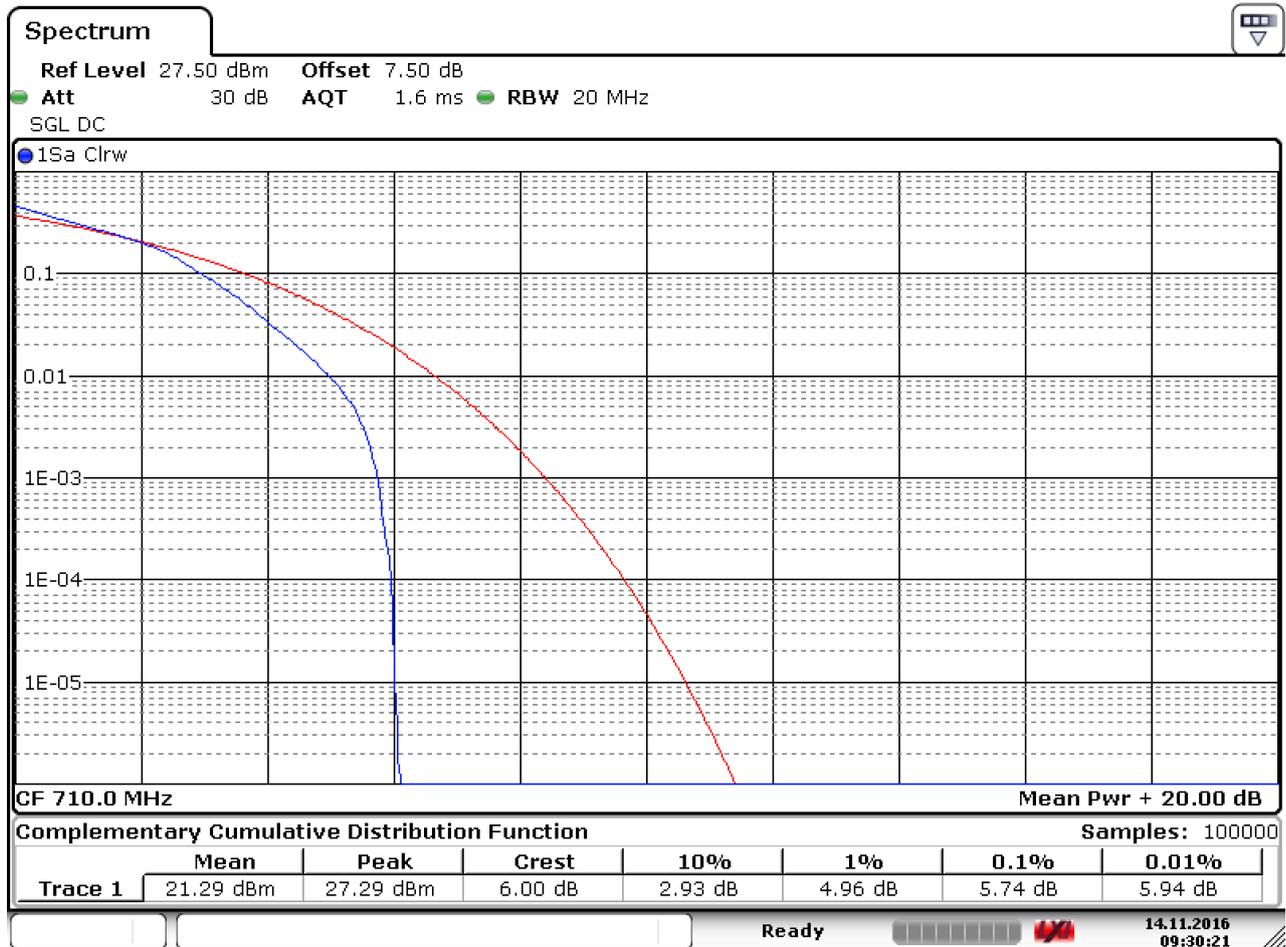
2.1.1.2.1 Test Channel = LCH



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2.1.1.2.2 Test Channel = MCH

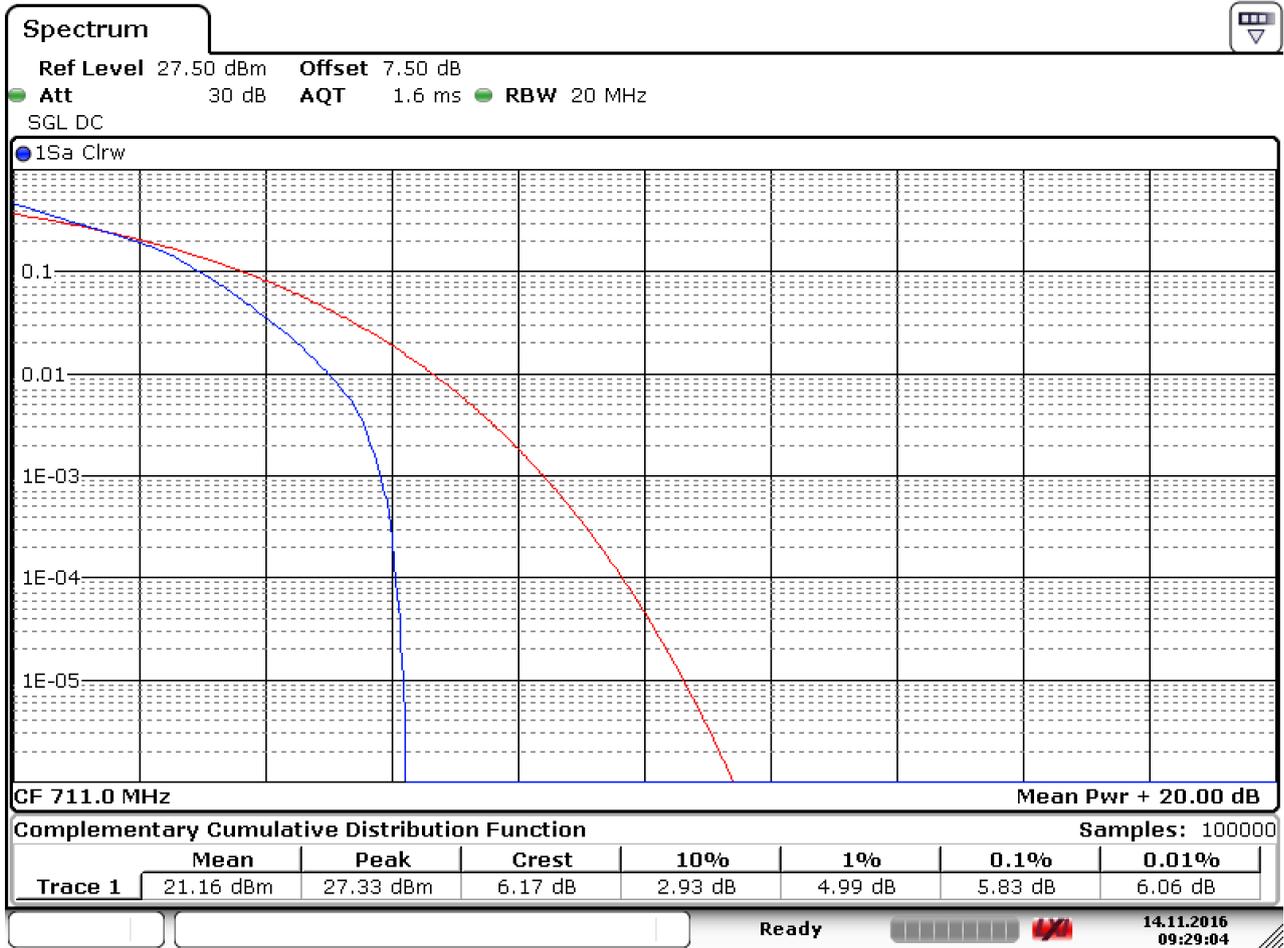


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2.1.1.2.3 Test Channel = HCH



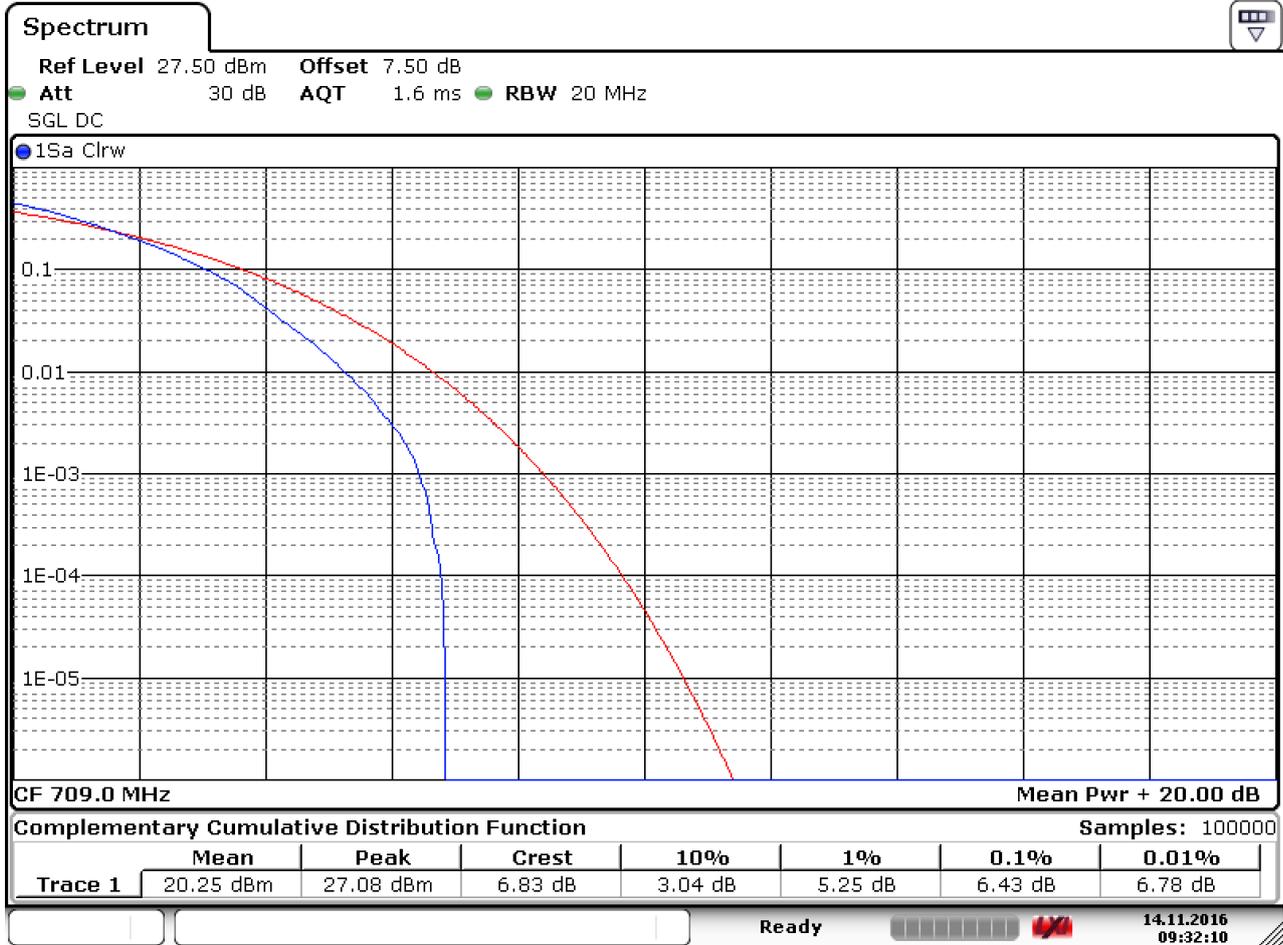
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2.1.1.3 Test Mode = LTE/TM3.Bandwidth=10MHz

2.1.1.3.1 Test Channel = LCH

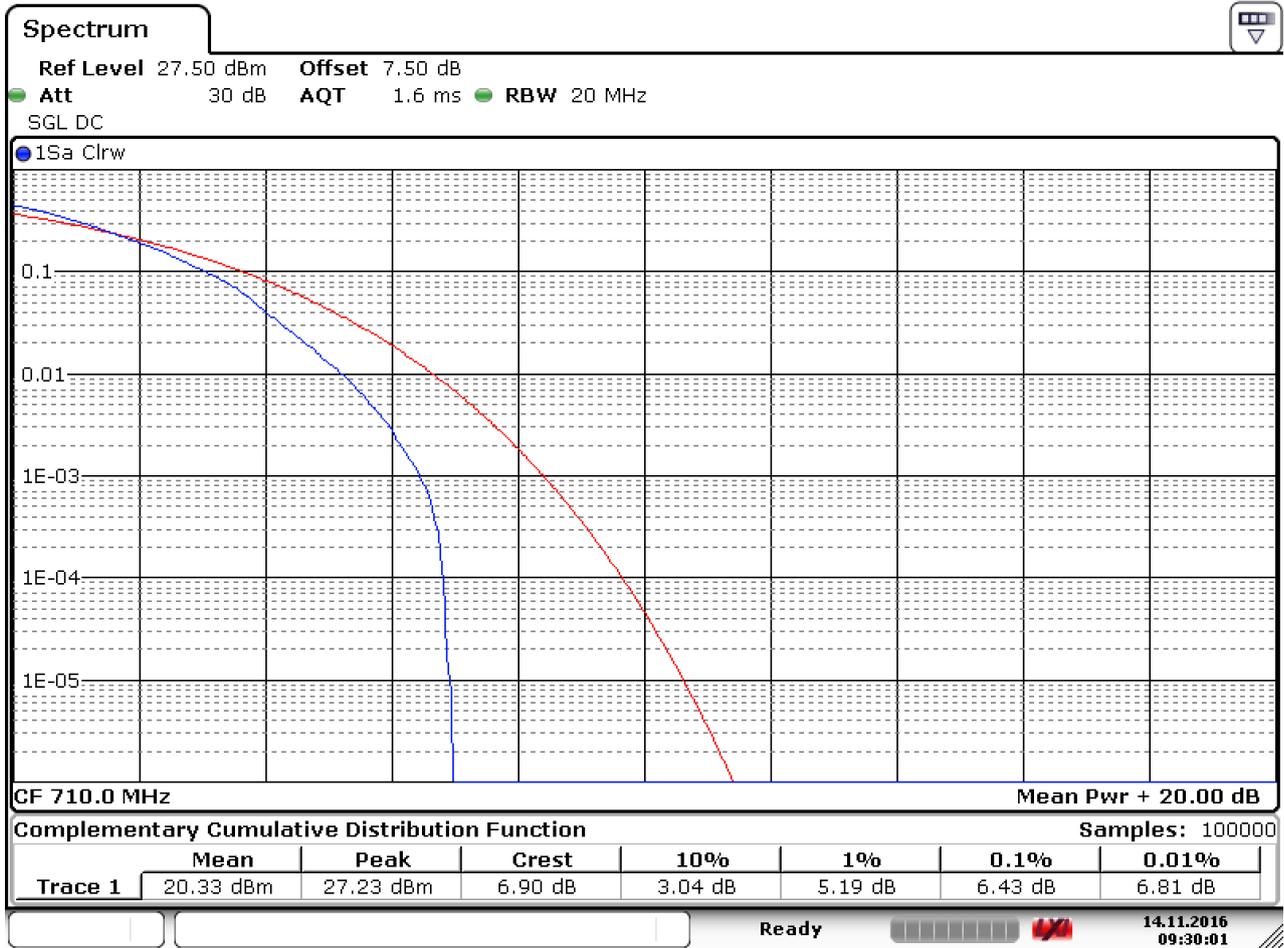


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2.1.1.3.2 Test Channel = MCH

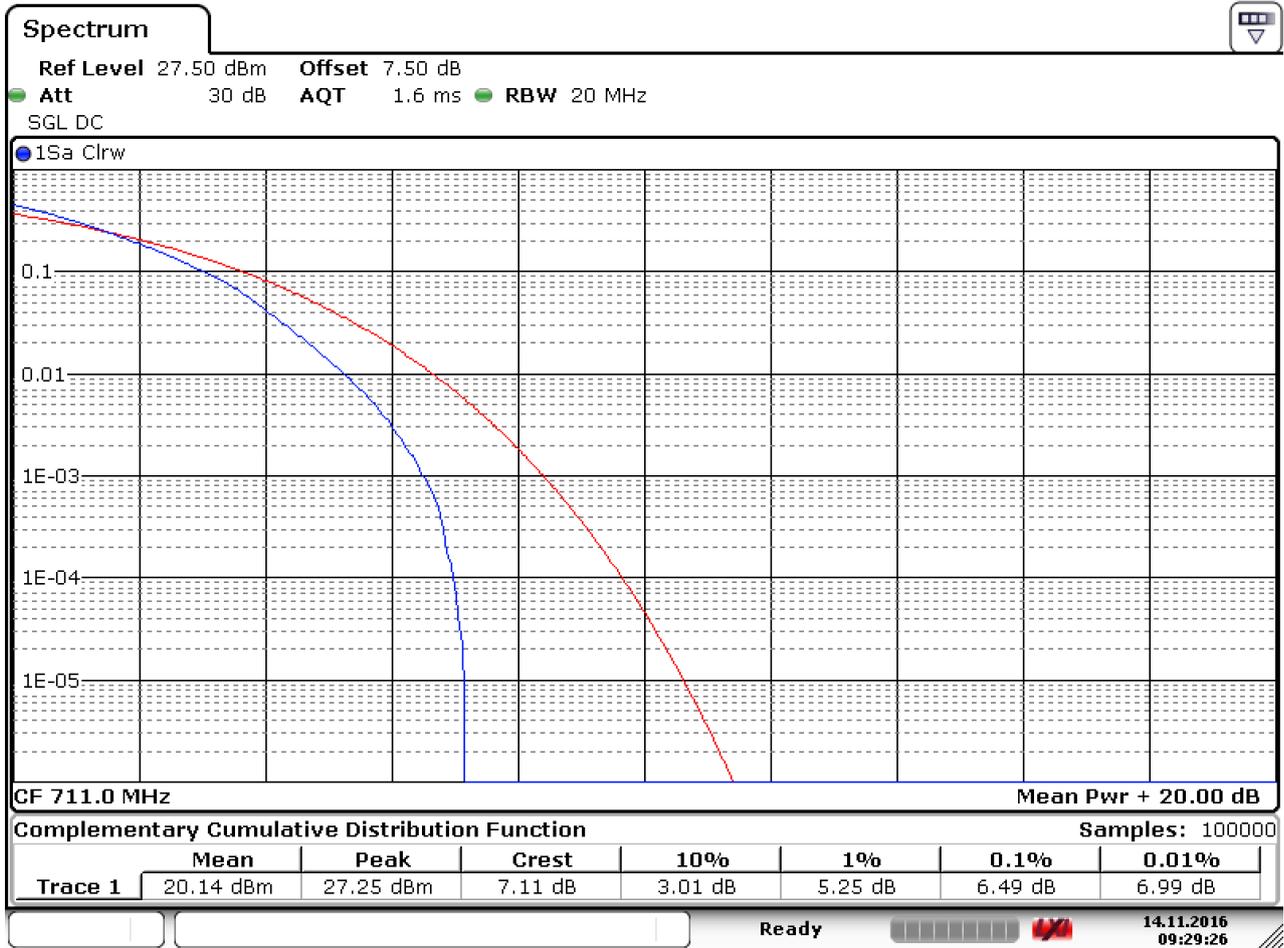


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2.1.1.3.3 Test Channel = HCH



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3 Modulation Characteristics

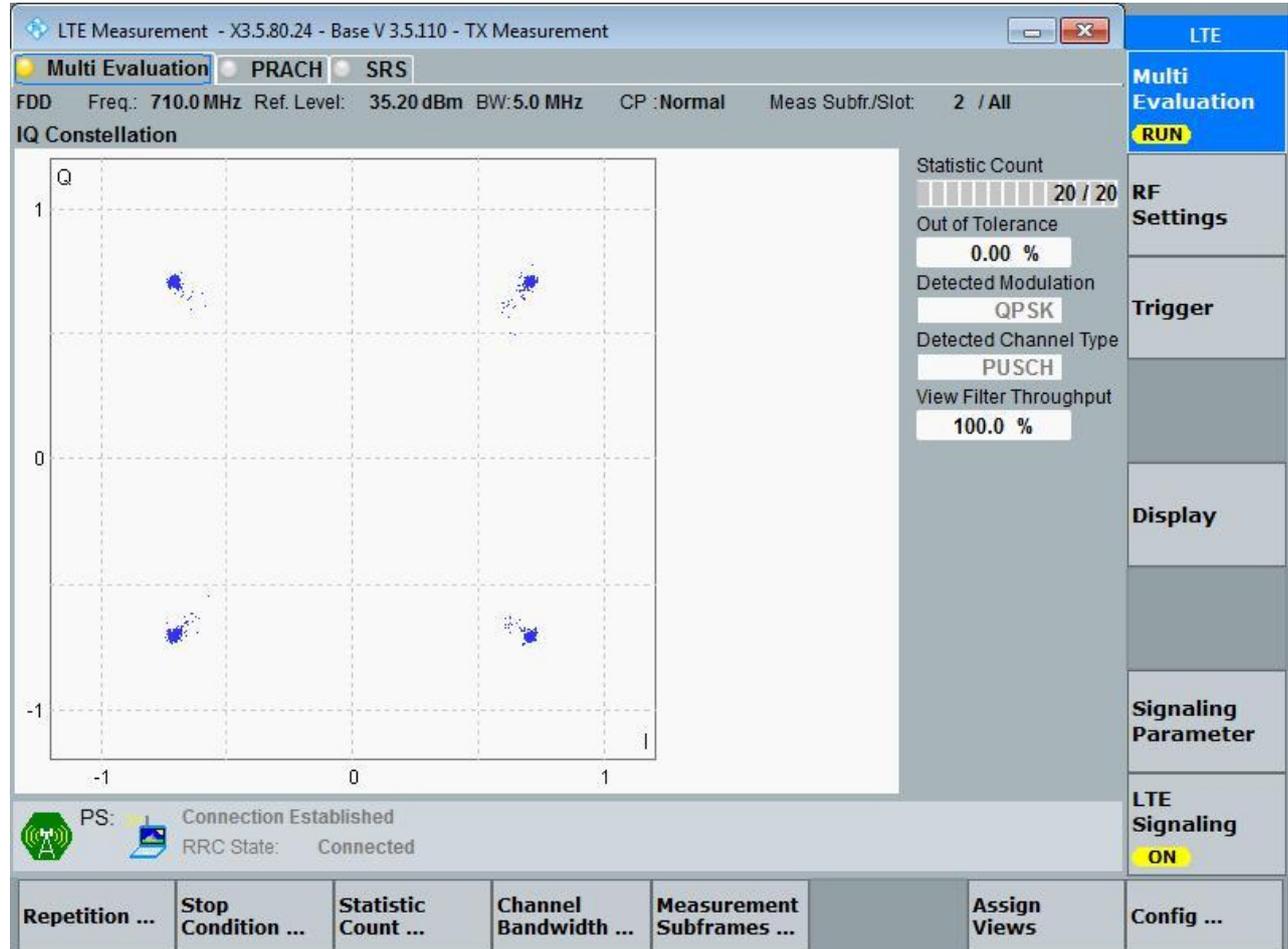
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band17

3.1.1.1 Test Mode = LTE /TM1 5MHz

3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 10MHz

3.1.1.2.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - 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.: 710.0 MHz', 'Ref. Level: 32.80 dBm', 'BW: 10.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 2 / All'.
- IQ Constellation Plot:** A scatter plot with a grid. The vertical axis is labeled 'Q' and ranges from -1 to 1. The horizontal axis is labeled 'I' and ranges from -1 to 1. There are four distinct clusters of blue data points, representing the four quadrants of a QPSK modulation scheme.
- Statistics Panel (Right):**
 - Statistic Count: 20 / 20
 - Out of Tolerance: 0.00 %
 - Detected Modulation: QPSK
 - Detected Channel Type: PUSCH
 - View Filter Throughput: 100.0 %
- Right-Hand Side Navigation Panel:** Contains buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'.
- Bottom Status Bar:** Shows 'PS: Connection Established' and 'RRC State: Connected'. Below this is a row of buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.



3.1.1.3 Test Mode = LTE /TM2 5MHz

3.1.1.3.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - 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.: 710.0 MHz', 'Ref. Level: 35.20 dBm', 'BW: 5.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 2 / 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.
- Statistics Panel (Right):** Displays 'Statistic Count' as 20 / 20, 'Out of Tolerance' as 0.00 %, 'Detected Modulation' as 16-QAM, 'Detected Channel Type' as PUSCH, and 'View Filter Throughput' as 100.0 %.
- Bottom Bar:** Shows 'PS: Connection Established' and 'RRC State: Connected'.
- Right Sidebar:** Contains several buttons: 'LTE' (blue), 'Multi Evaluation' (grey), 'RUN' (yellow), 'RF Settings' (grey), 'Trigger' (grey), 'Display' (grey), 'Signaling Parameter' (blue), 'LTE Signaling' (grey), and 'ON' (yellow).
- Bottom Row:** A series of buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.



3.1.1.4 Test Mode = LTE /TM2 10MHz

3.1.1.4.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - 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.: 710.0 MHz', 'Ref. Level: 32.80 dBm', 'BW: 10.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 2 / All'.
- IQ Constellation:** A scatter plot showing the IQ constellation with axes ranging from -1 to 1. The plot shows a grid of points, indicating a 16-QAM modulation scheme.
- Statistic Count:** A progress bar showing '20 / 20'.
- Out of Tolerance:** A field showing '0.00 %'.
- Detected Modulation:** A field showing '16-QAM'.
- Detected Channel Type:** A field showing 'PUSCH'.
- View Filter Throughput:** A field showing '100.0 %'.
- Right Panel:** A vertical sidebar with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'.
- Bottom Bar:** A status bar showing 'PS: Connection Established' and 'RRC State: Connected'. Below this are several buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

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3.1.1.5 Test Mode = LTE /TM3 5MHz

3.1.1.5.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - 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.: 710.0 MHz', 'Ref. Level: 35.20 dBm', 'BW: 5.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 2 / All'.
- IQ Constellation:** A central plot showing a 64-QAM constellation diagram with points scattered around a grid. The vertical axis is labeled 'Q' and ranges from -1 to 1. The horizontal axis is labeled 'I' and ranges from -1 to 1.
- Statistics Panel:** Located on the right side of the plot, it includes:
 - Statistic Count: 20 / 20
 - Out of Tolerance: 0.00 %
 - Detected Modulation: 64-QAM
 - Detected Channel Type: PUSCH
 - View Filter Throughput: 100.0 %
- Right Sidebar:** A vertical menu with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling'.
- Bottom Status Bar:** Shows 'PS: Connection Established' and 'RRC State: Connected'. Below this is a row of buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.



3.1.1.6 Test Mode = LTE /TM3 10MHz

3.1.1.6.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement". It features a "Multi Evaluation" tab with sub-tabs for "PRACH" and "SRS". The interface shows the following parameters: FDD, Freq.: 710.0 MHz, Ref. Level: 32.80 dBm, BW: 10.0 MHz, CP: Normal, Meas Subfr/Slot: 2 / All. The "IQ Constellation" plot shows a grid of points, indicating a 64-QAM modulation scheme. The "Statistic Count" is 20 / 20, with "Out of Tolerance" at 0.00%. The "Detected Modulation" is 64-QAM, and the "Detected Channel Type" is PUSCH. The "View Filter Throughput" is 100.0%. The interface also includes a "PS" status bar showing "Connection Established" and "RRC State: 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 ...".



4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 17	TM1/ 5MHz	LCH	4.49	4.91	PASS
		MCH	4.47	4.88	PASS
		HCH	4.49	4.90	PASS
	TM2/ 5MHz	LCH	4.48	4.85	PASS
		MCH	4.47	4.92	PASS
		HCH	4.49	4.90	PASS
	TM3/5MHz	LCH	4.48	4.90	PASS
		MCH	4.47	4.88	PASS
		HCH	4.47	4.87	PASS
	TM1/10MHz	LCH	8.93	9.66	PASS
		MCH	8.95	9.72	PASS
		HCH	8.93	9.69	PASS
	TM2/ 10MHz	LCH	8.95	9.66	PASS
		MCH	8.95	9.60	PASS
		HCH	8.93	9.65	PASS
	TM3/ 10MHz	LCH	8.95	9.69	PASS
		MCH	8.95	9.65	PASS
		HCH	8.93	9.65	PASS

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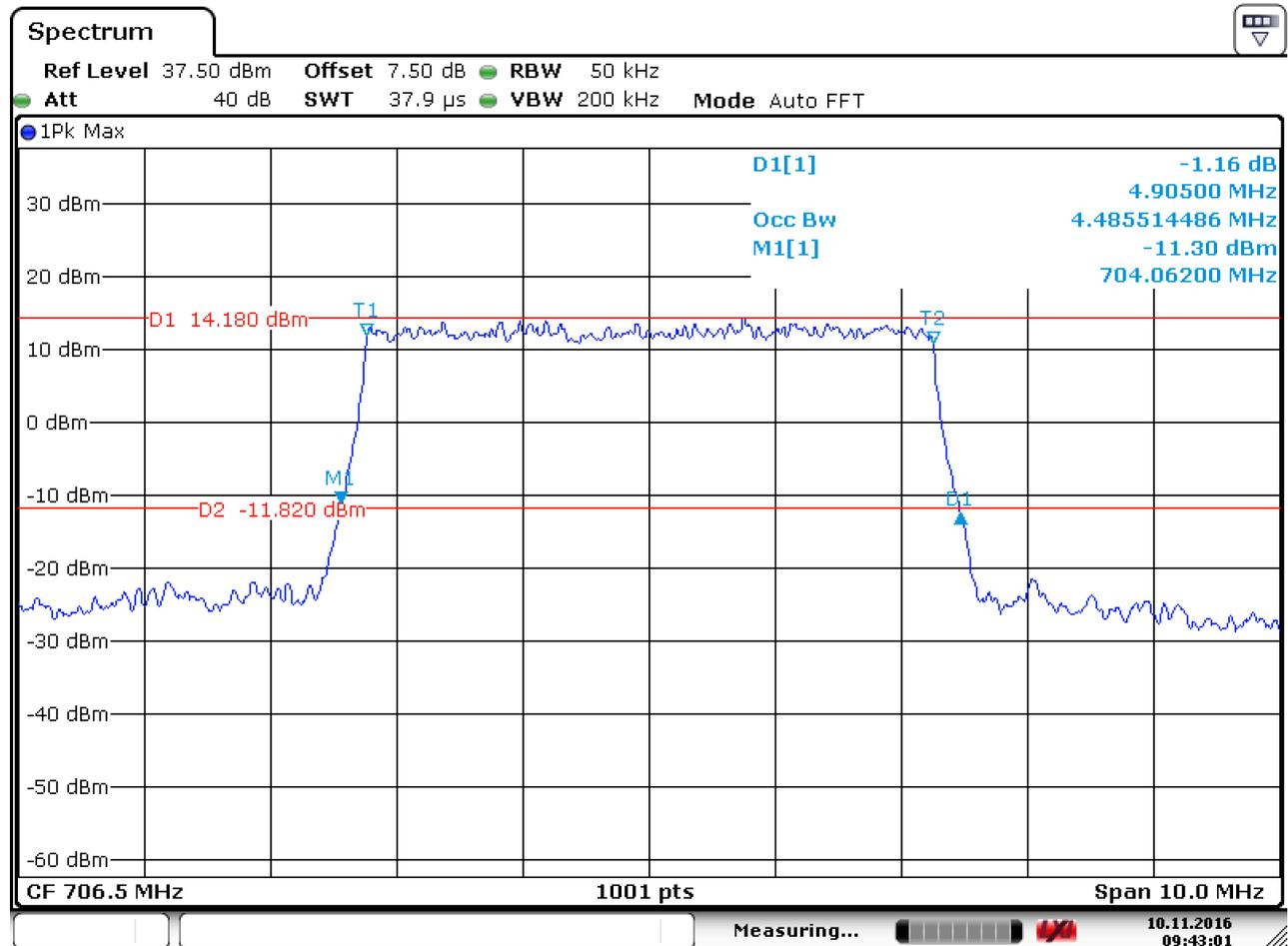


4.1 For LTE

4.1.1 Test Band = LTE band17

4.1.1.1 Test Mode = LTE/TM1 5MHz

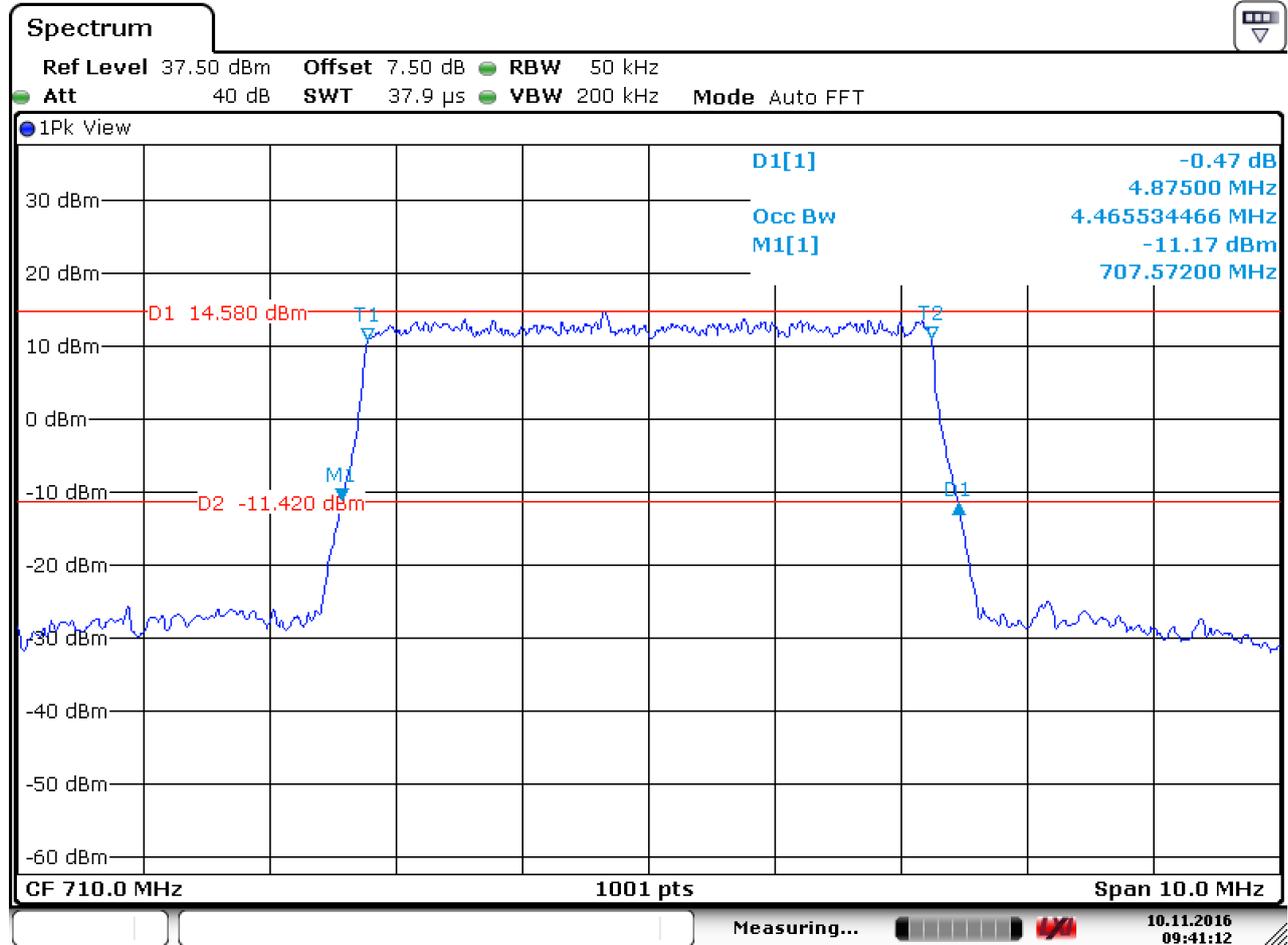
4.1.1.1.1 Test Channel = LCH



Date: 10.NOV.2016 09:43:02



4.1.1.1.2 Test Channel = MCH

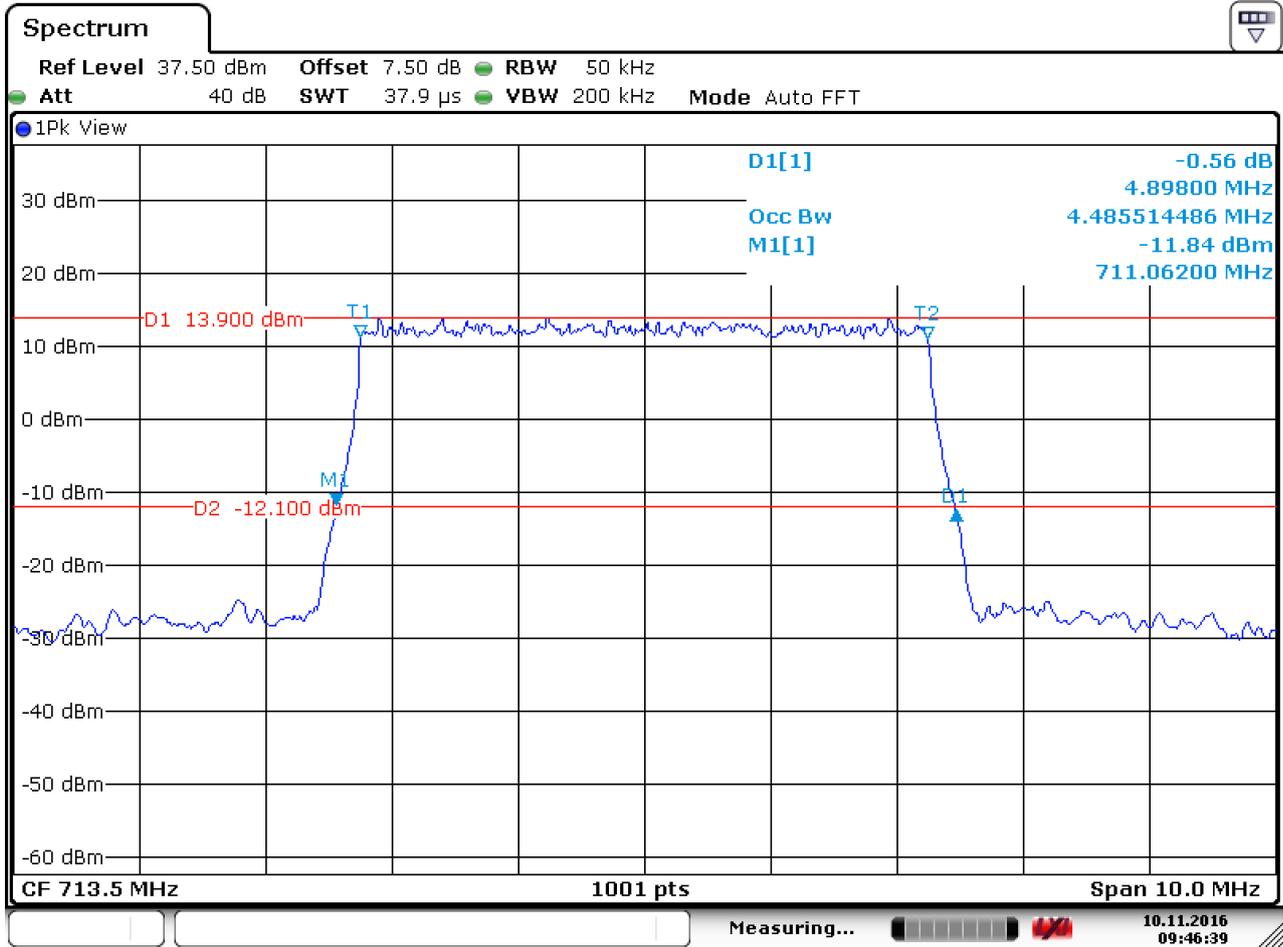


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4.1.1.1.3 Test Channel = HCH



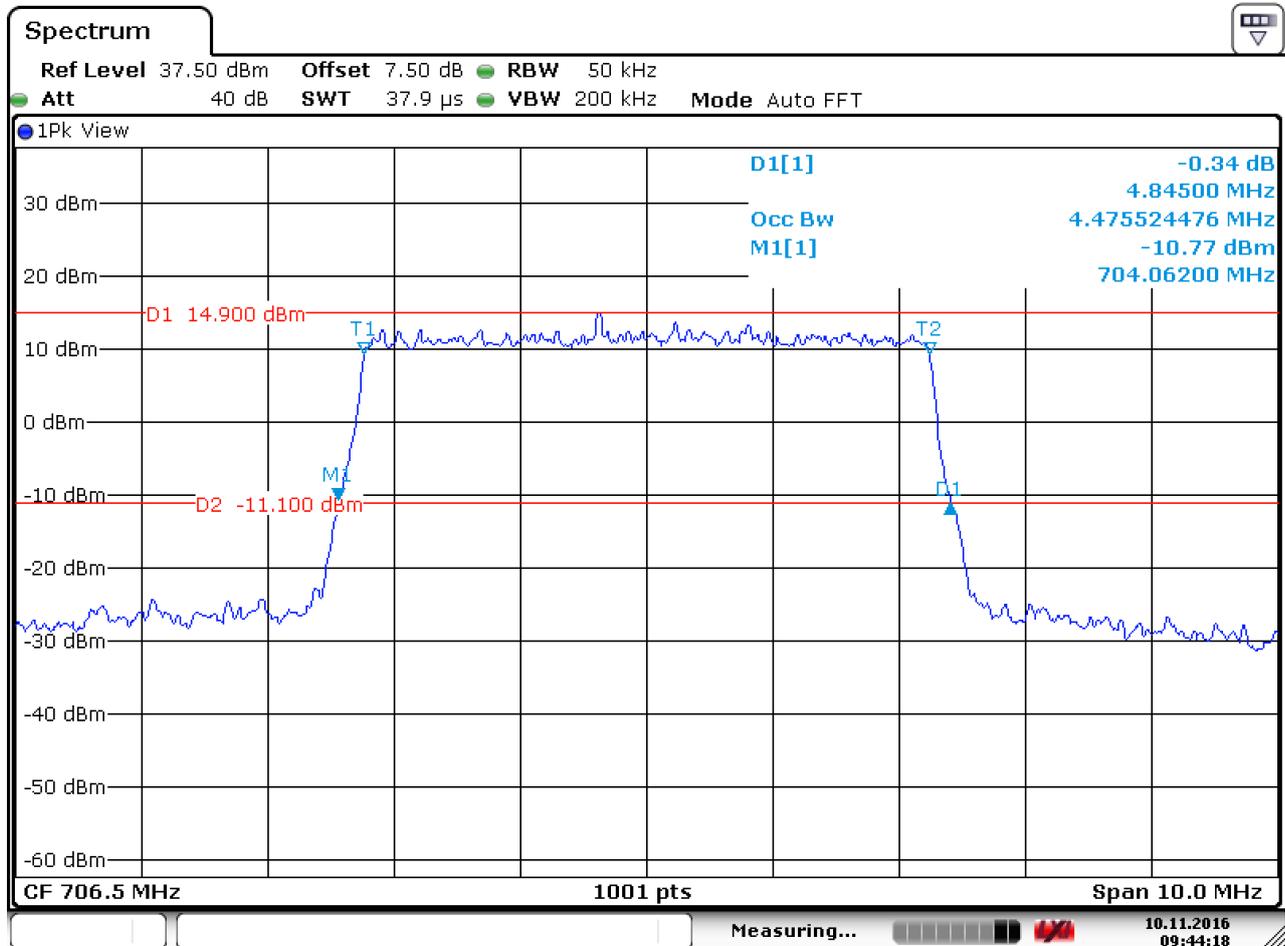
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4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH

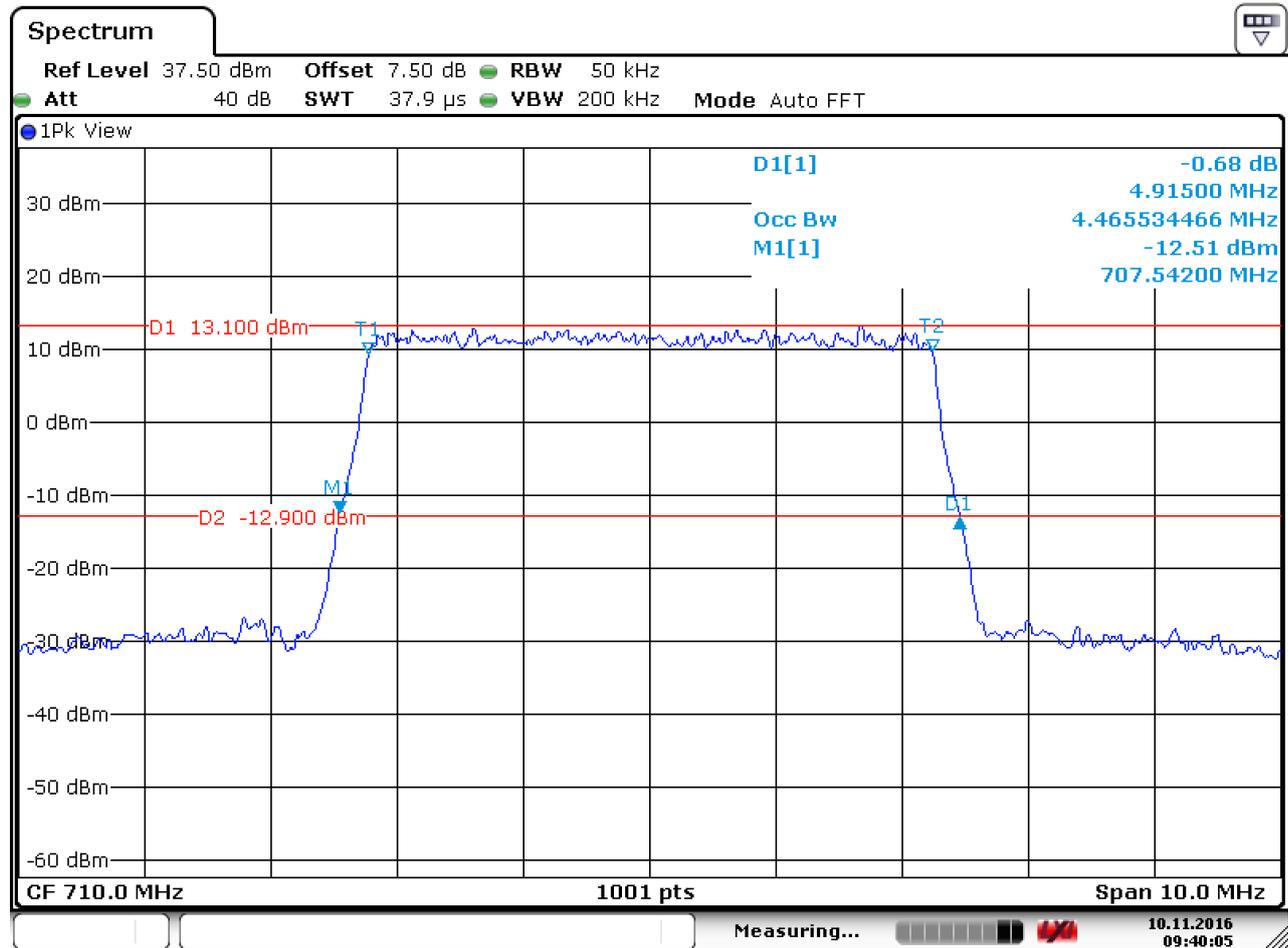


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4.1.1.2.2 Test Channel = MCH

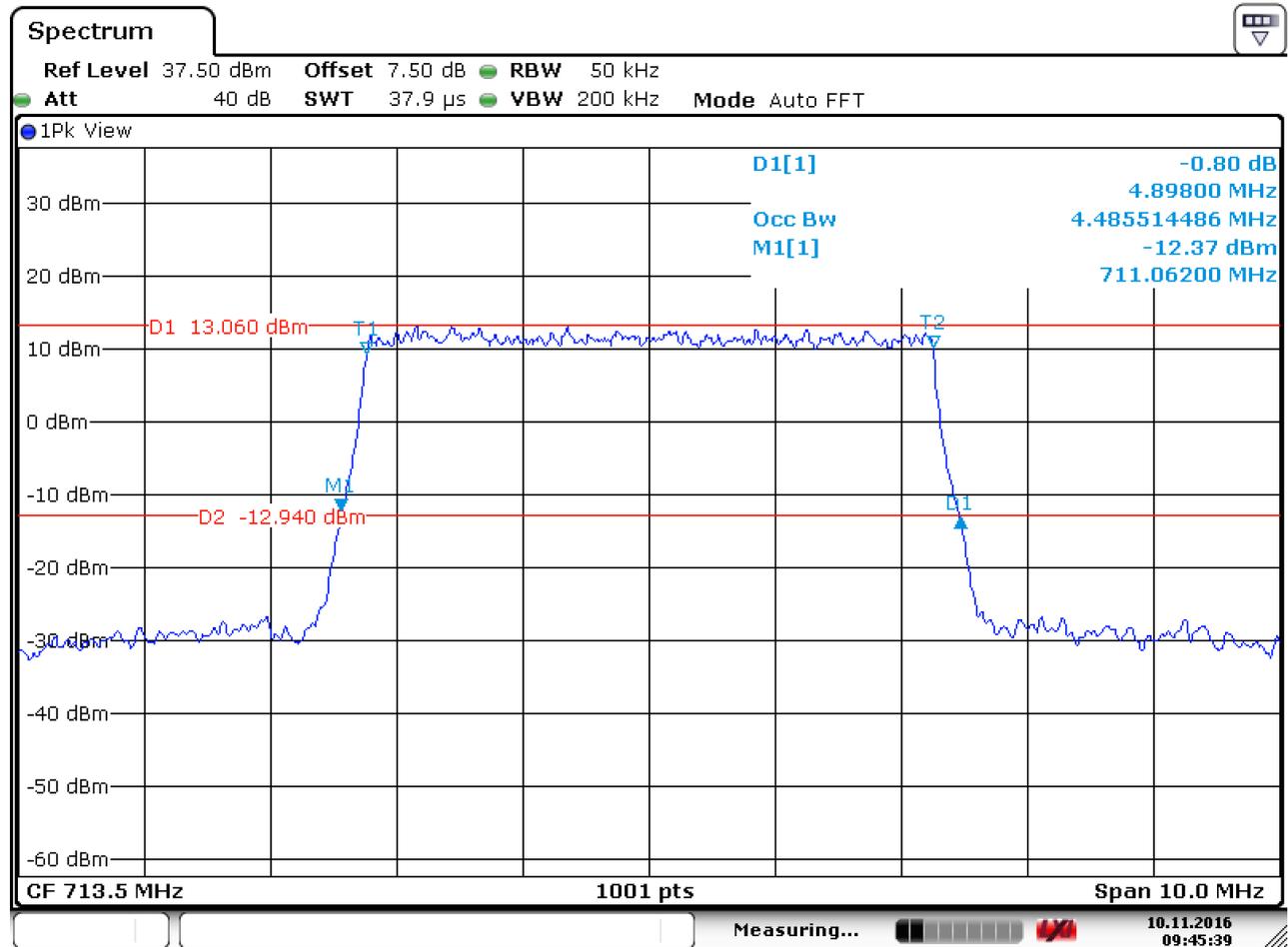


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4.1.1.2.3 Test Channel = HCH



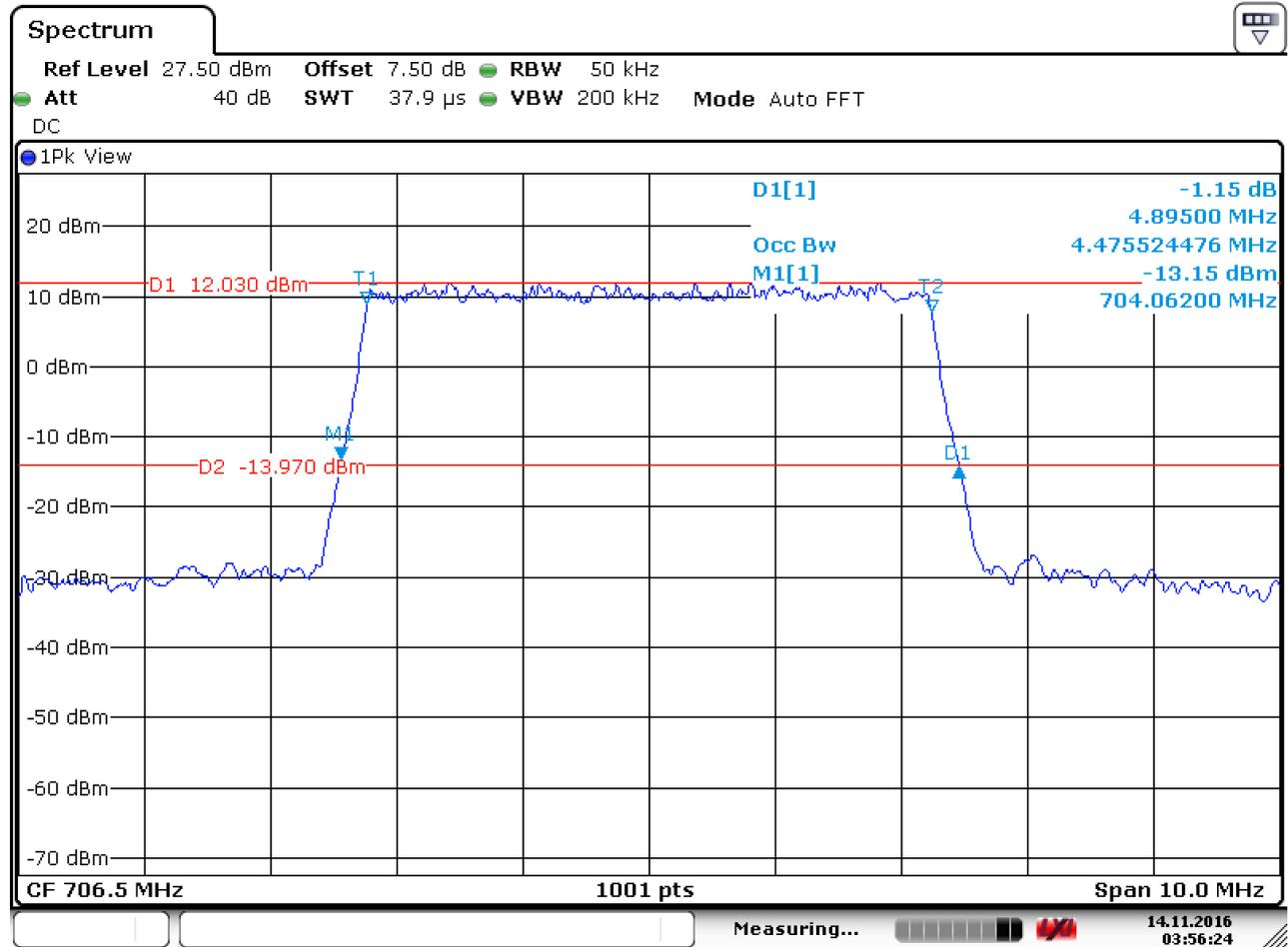
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4.1.1.3 Test Mode = LTE/TM3 5MHz

4.1.1.3.1 Test Channel = LCH

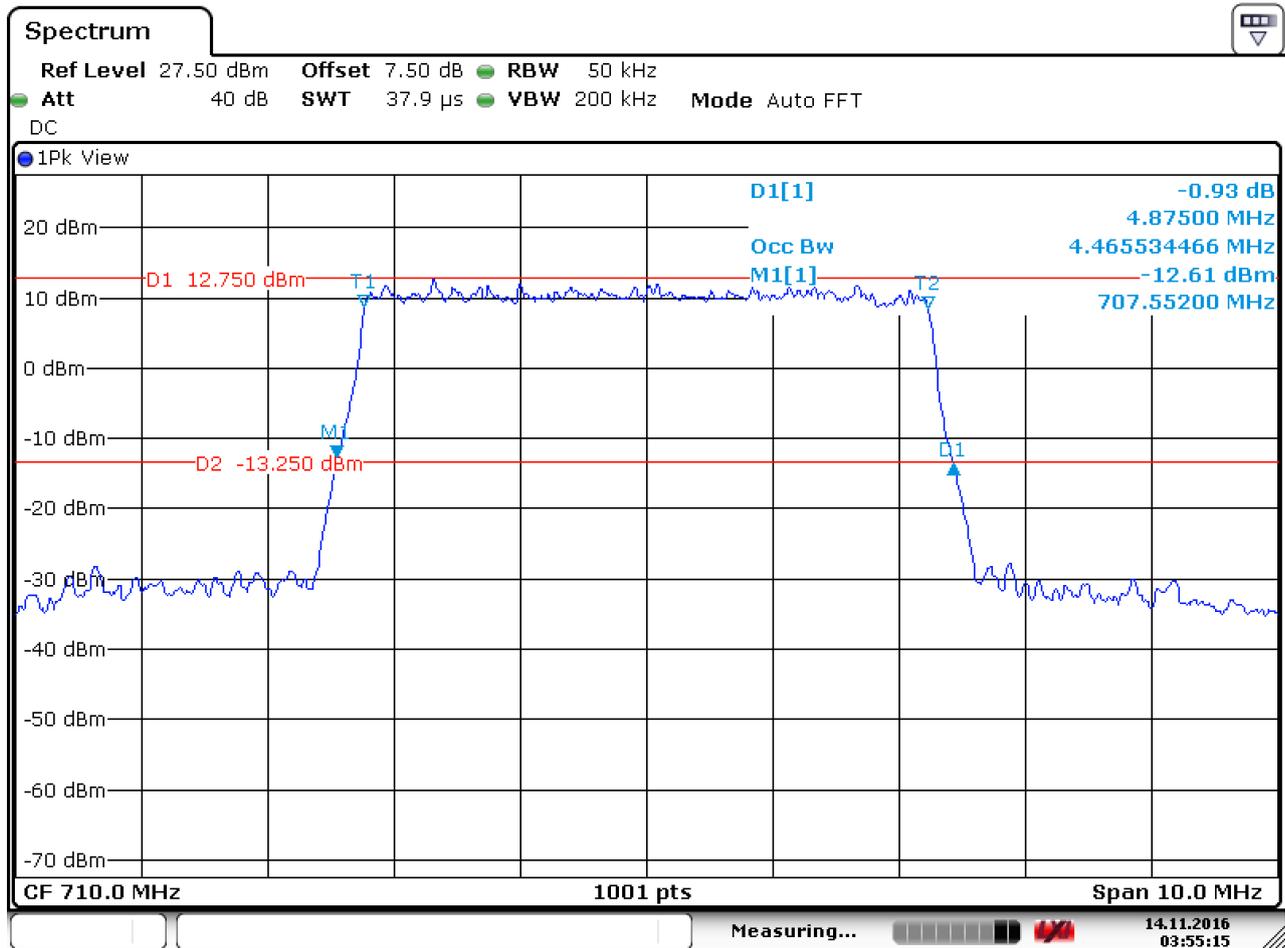


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4.1.1.3.2 Test Channel = MCH

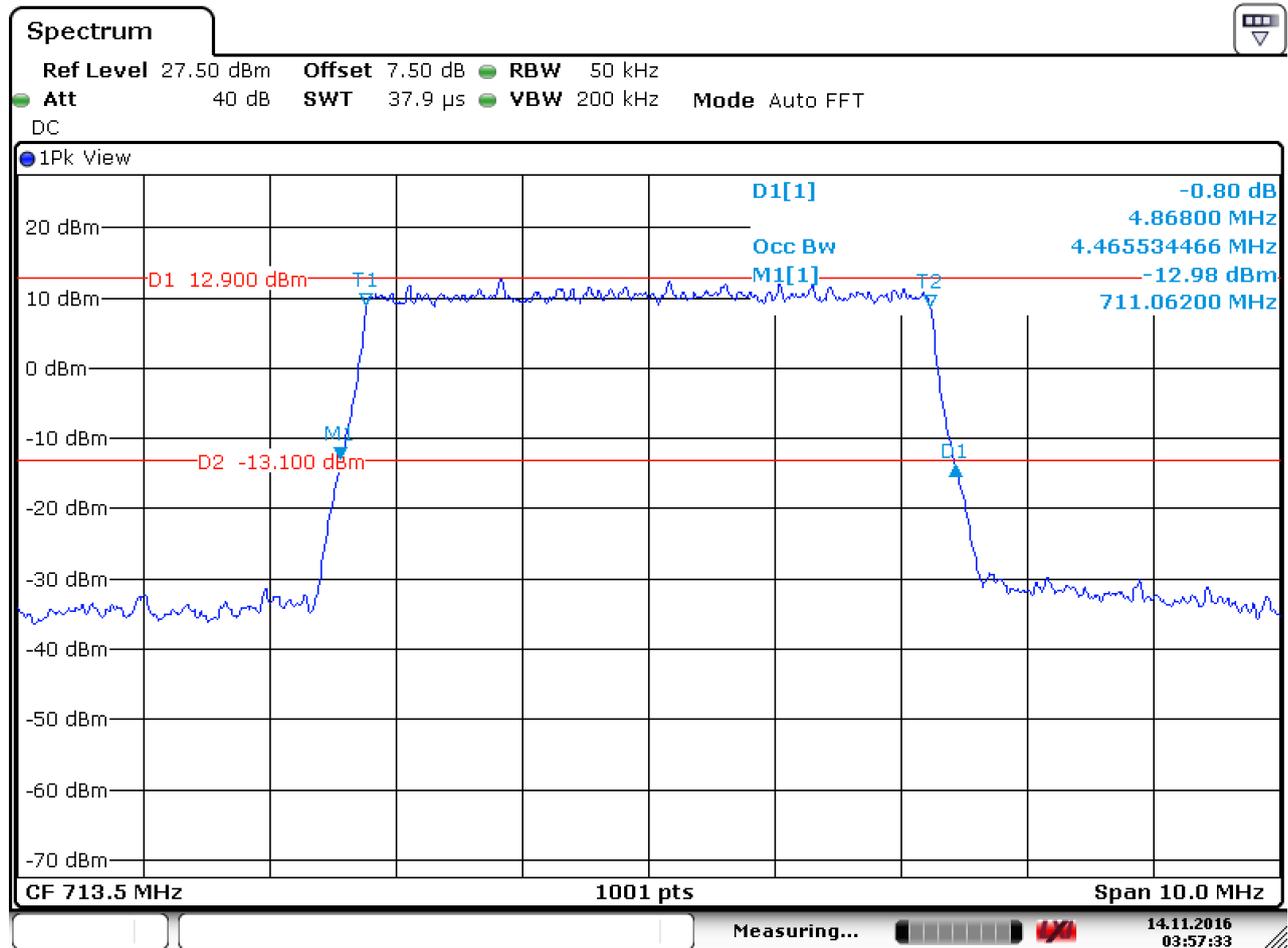


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4.1.1.3.3 Test Channel = HCH



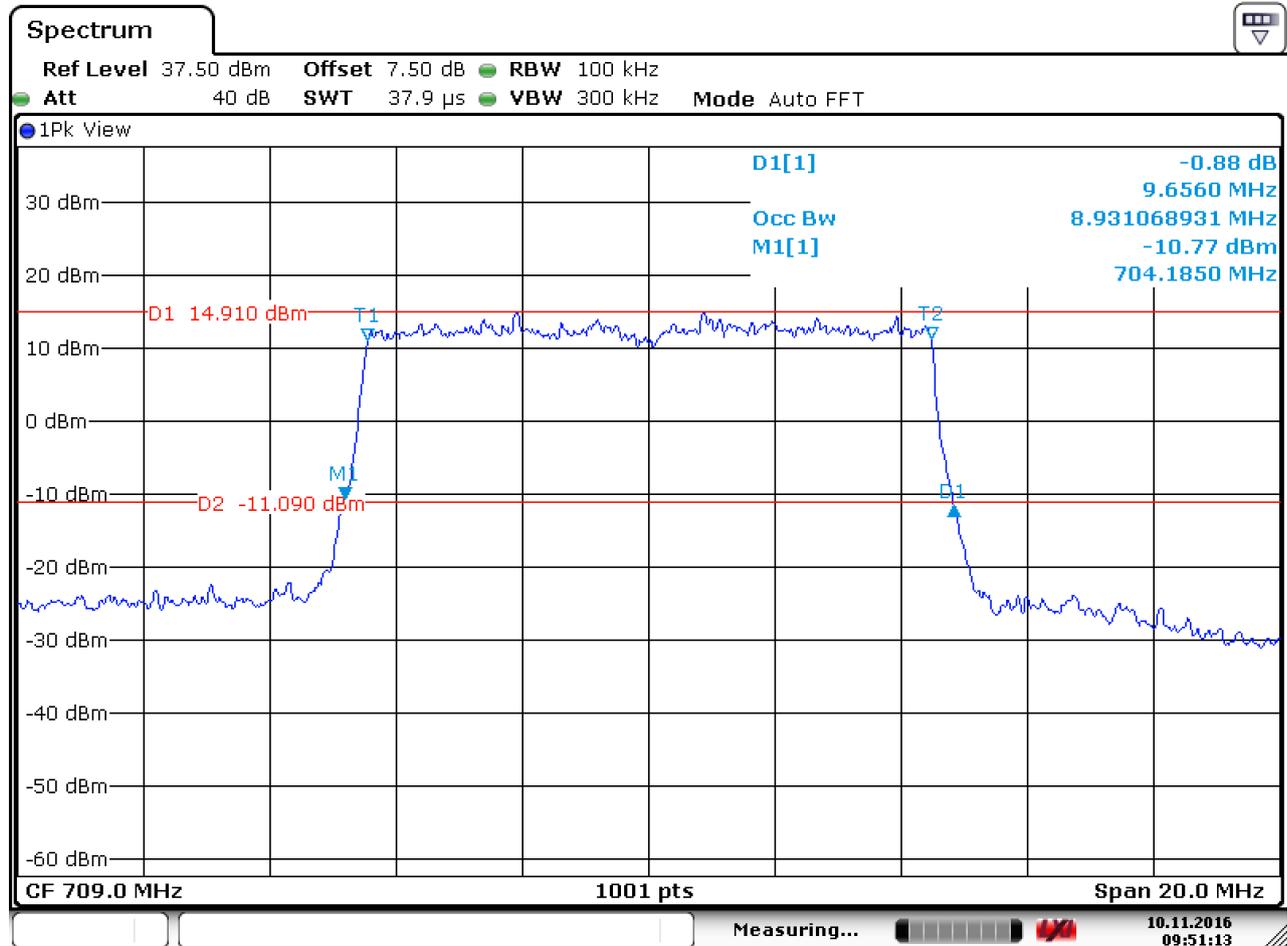
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4.1.1.4 Test Mode = LTE/TM1 10MHz

4.1.1.4.1 Test Channel = LCH

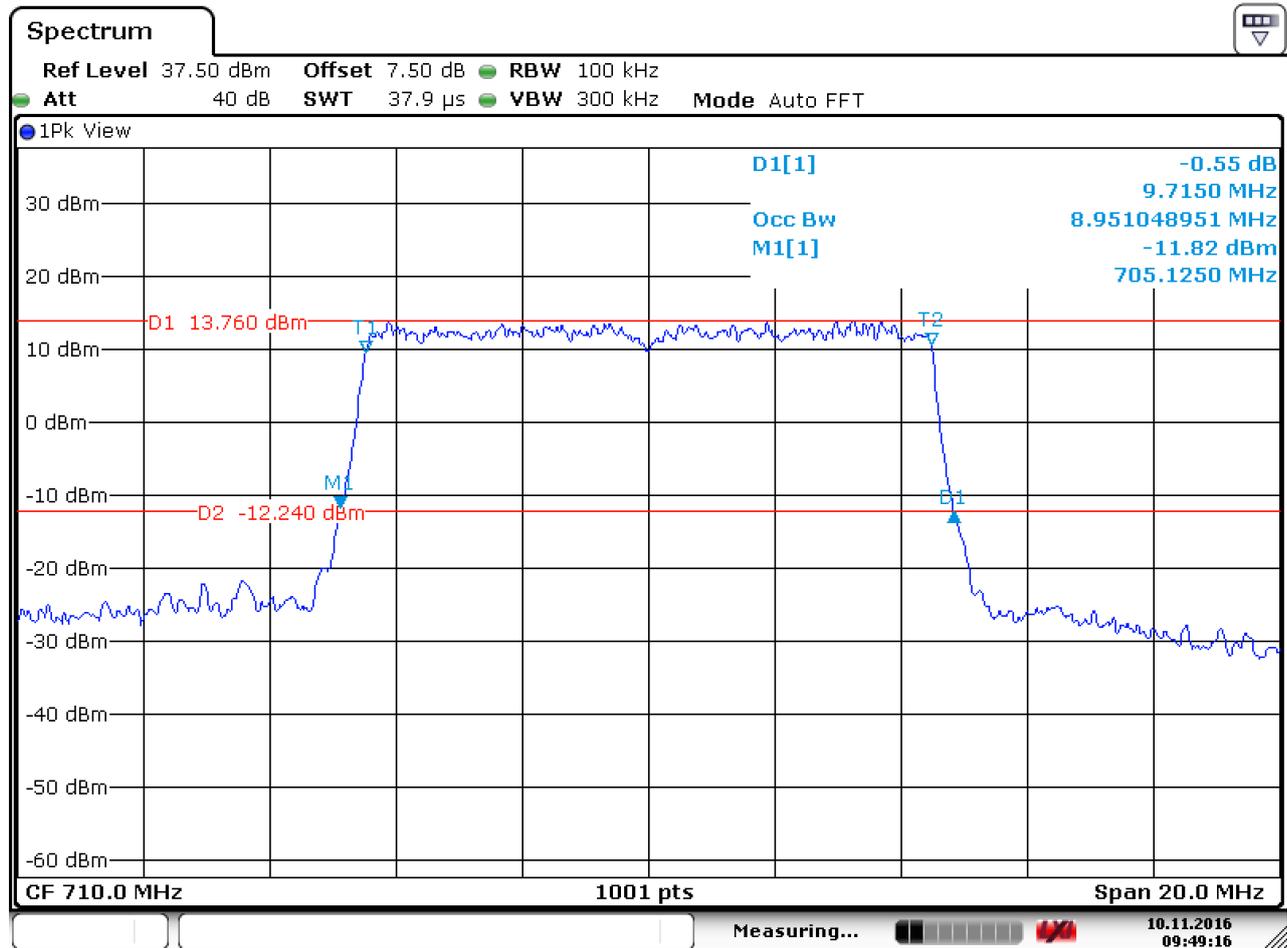


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4.1.1.4.2 Test Channel = MCH

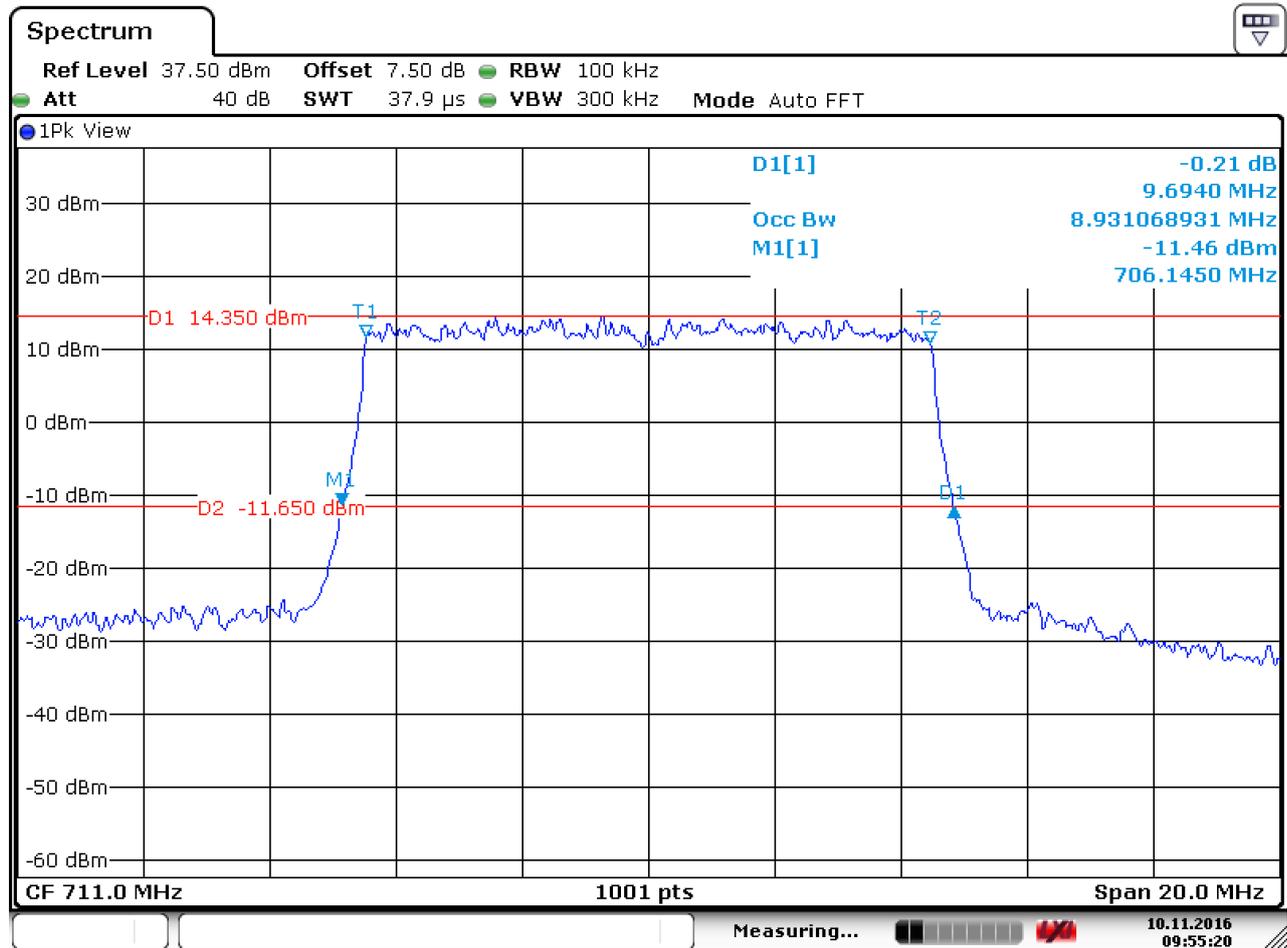


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4.1.1.4.3 Test Channel = HCH



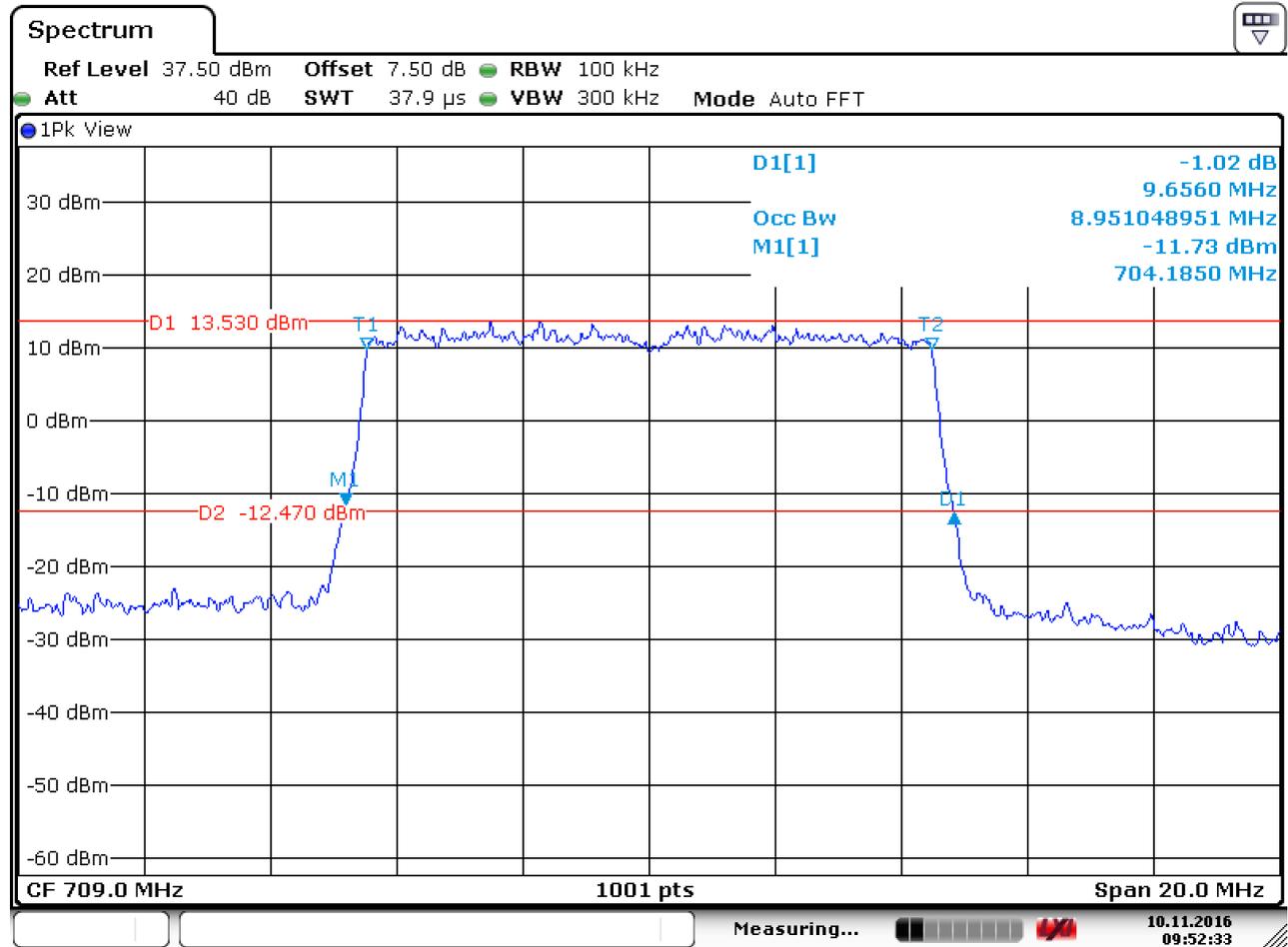
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4.1.1.5 Test Mode = LTE/TM2 10MHz

4.1.1.5.1 Test Channel = LCH

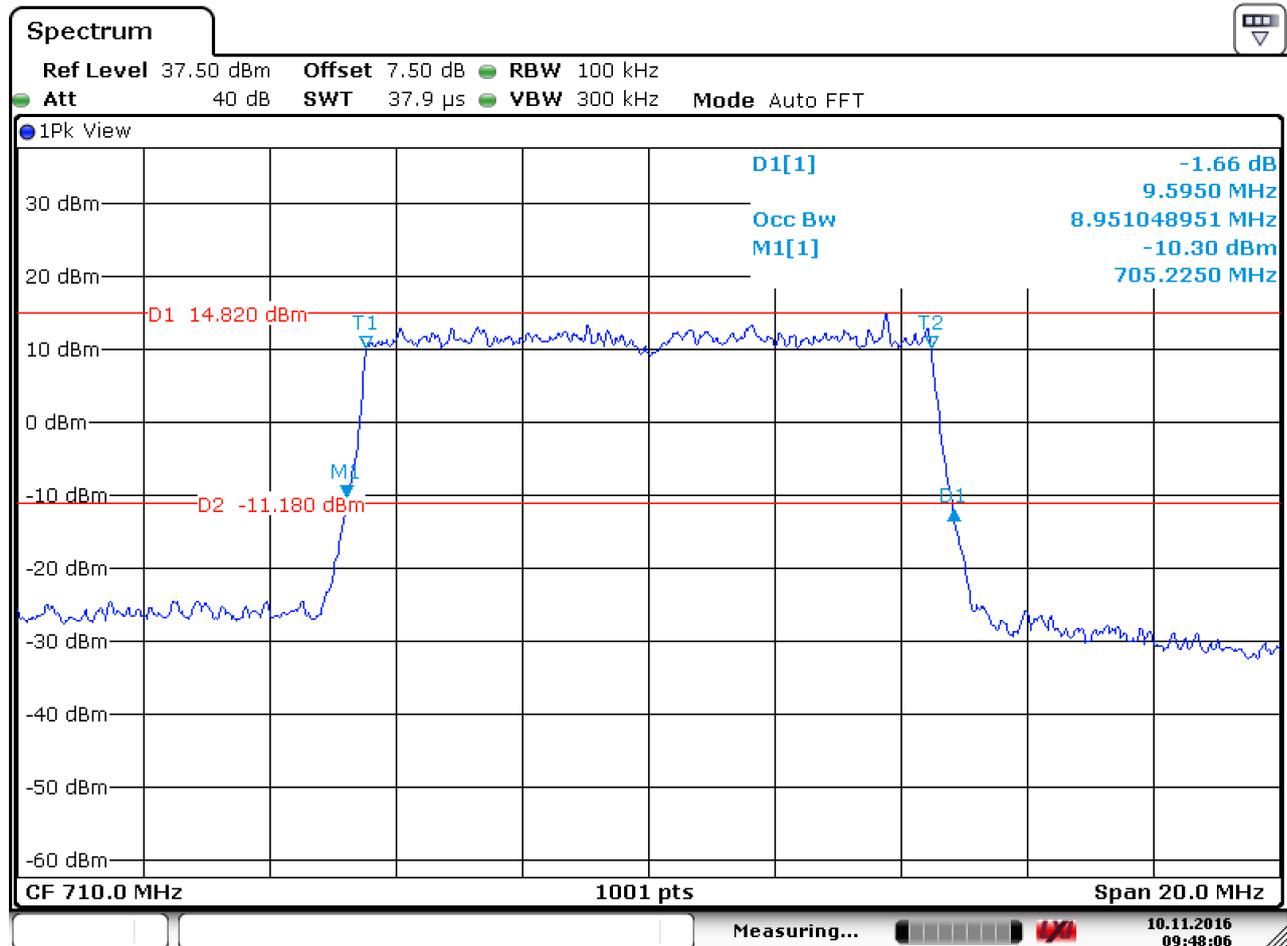


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4.1.1.5.2 Test Channel = MCH

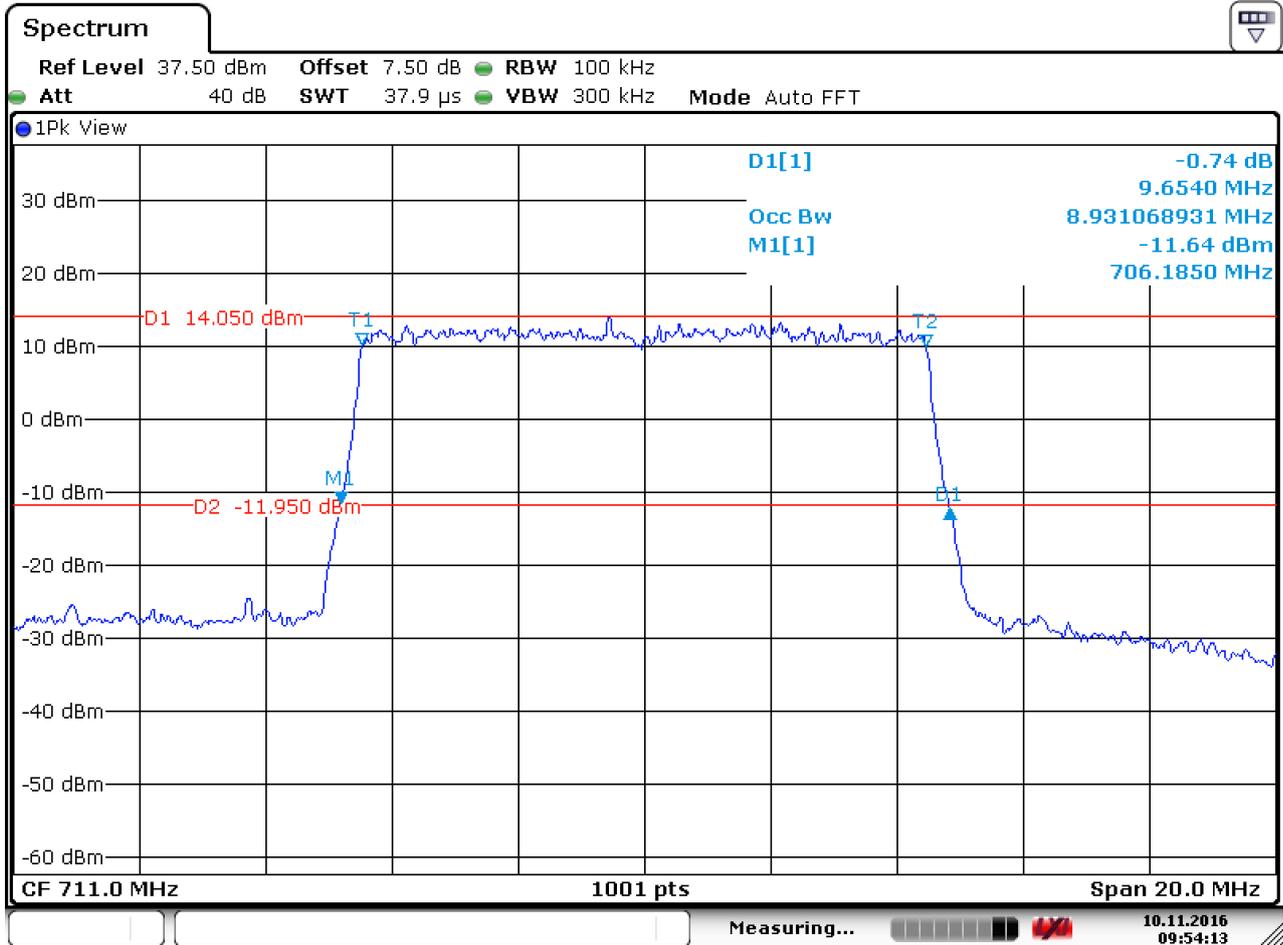


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4.1.1.5.3 Test Channel = HCH



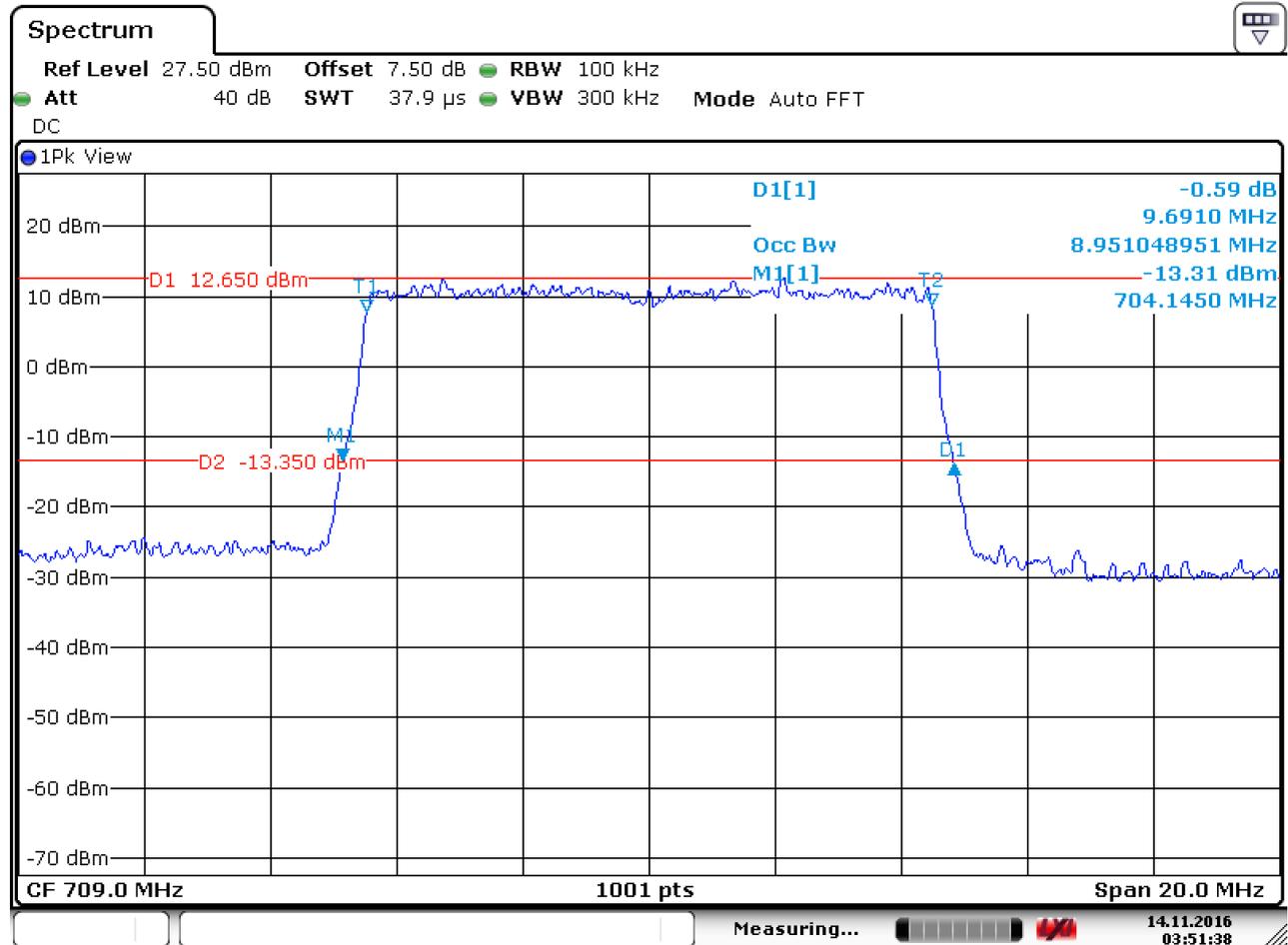
Date: 10.NOV.2016 09:54:13

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4.1.1.6 Test Mode = LTE/TM3 10MHz

4.1.1.6.1 Test Channel = LCH

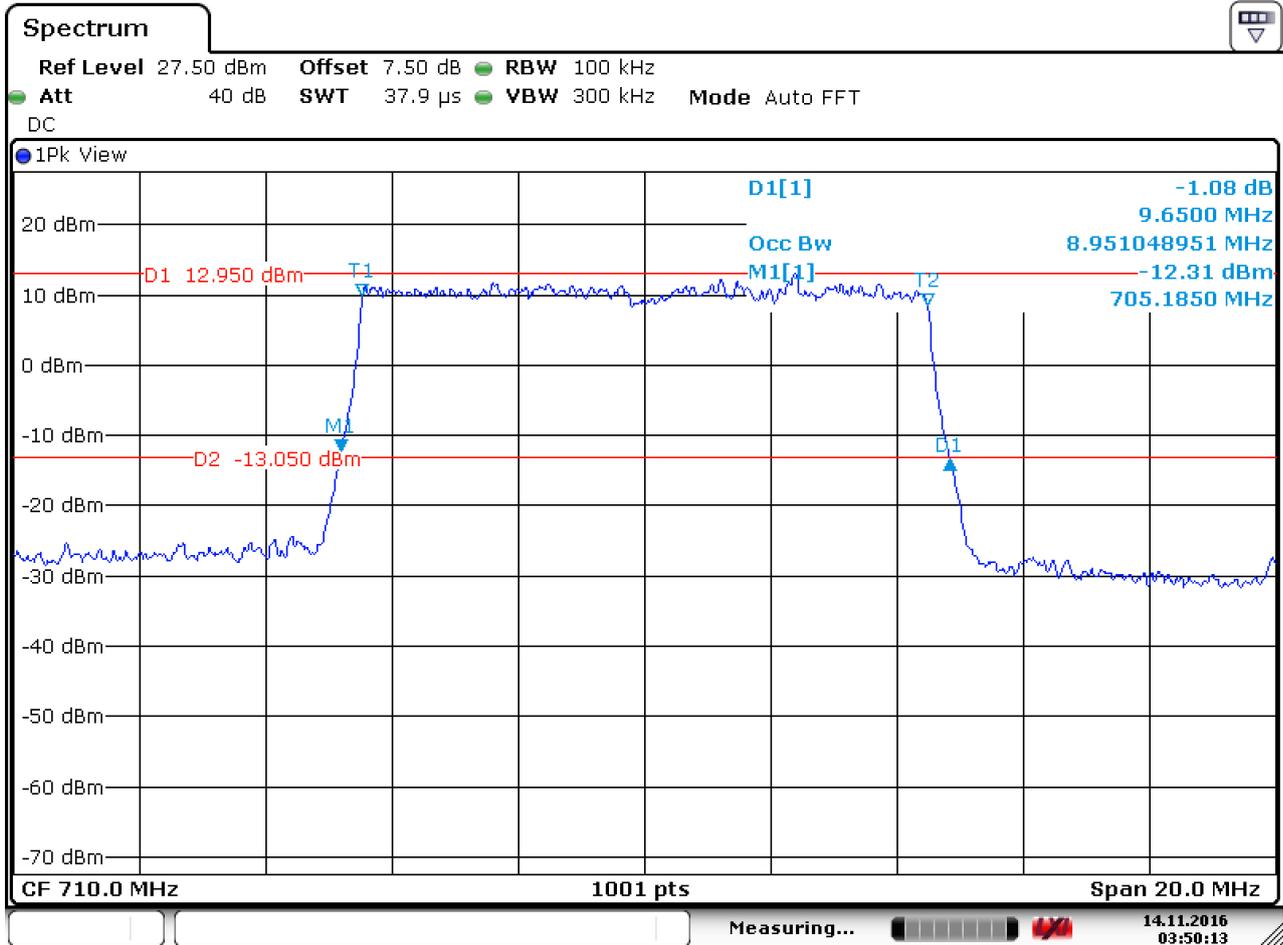


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4.1.1.6.2 Test Channel = MCH

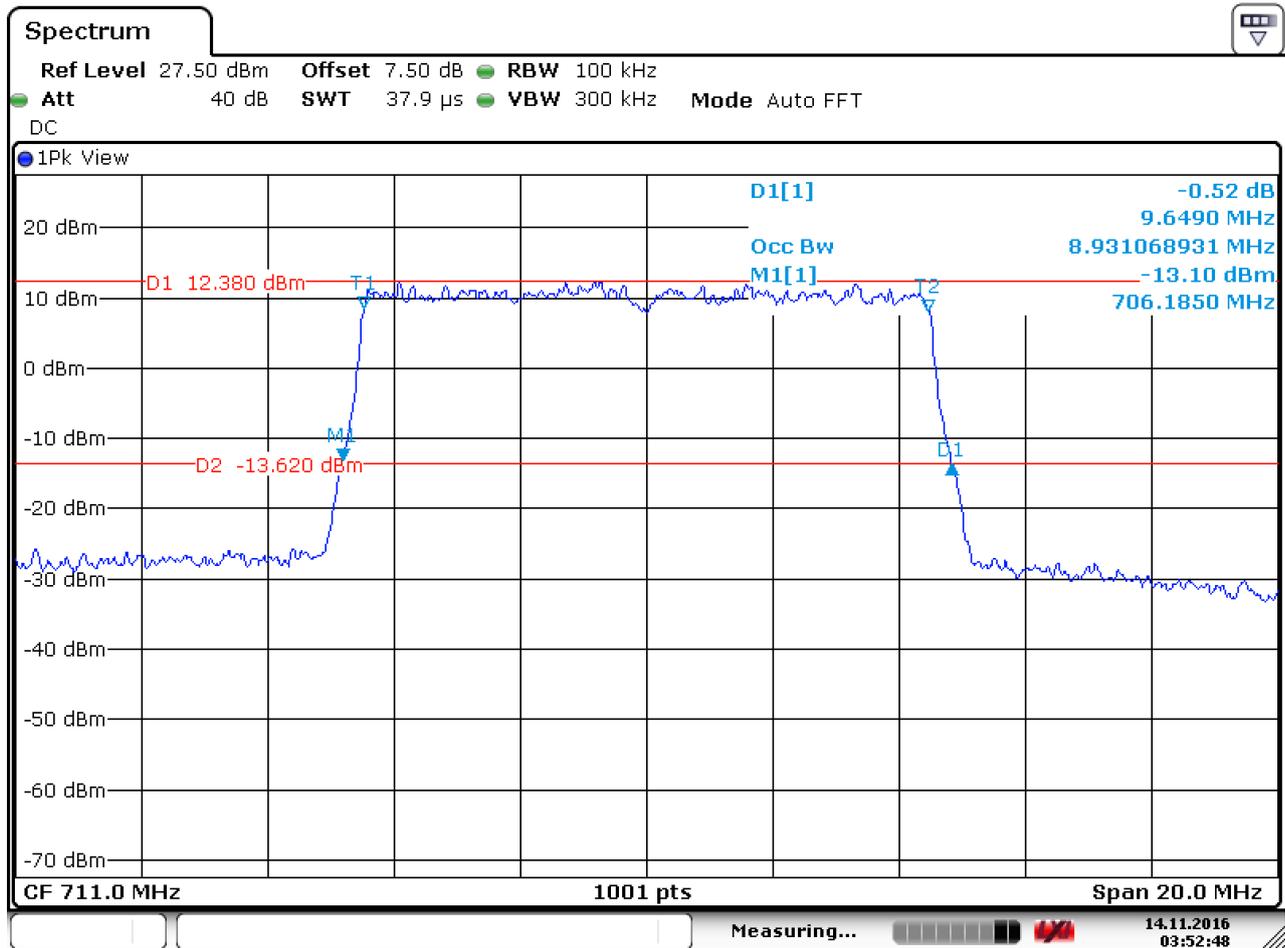


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4.1.1.6.3 Test Channel = HCH



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5 Band Edges Compliance

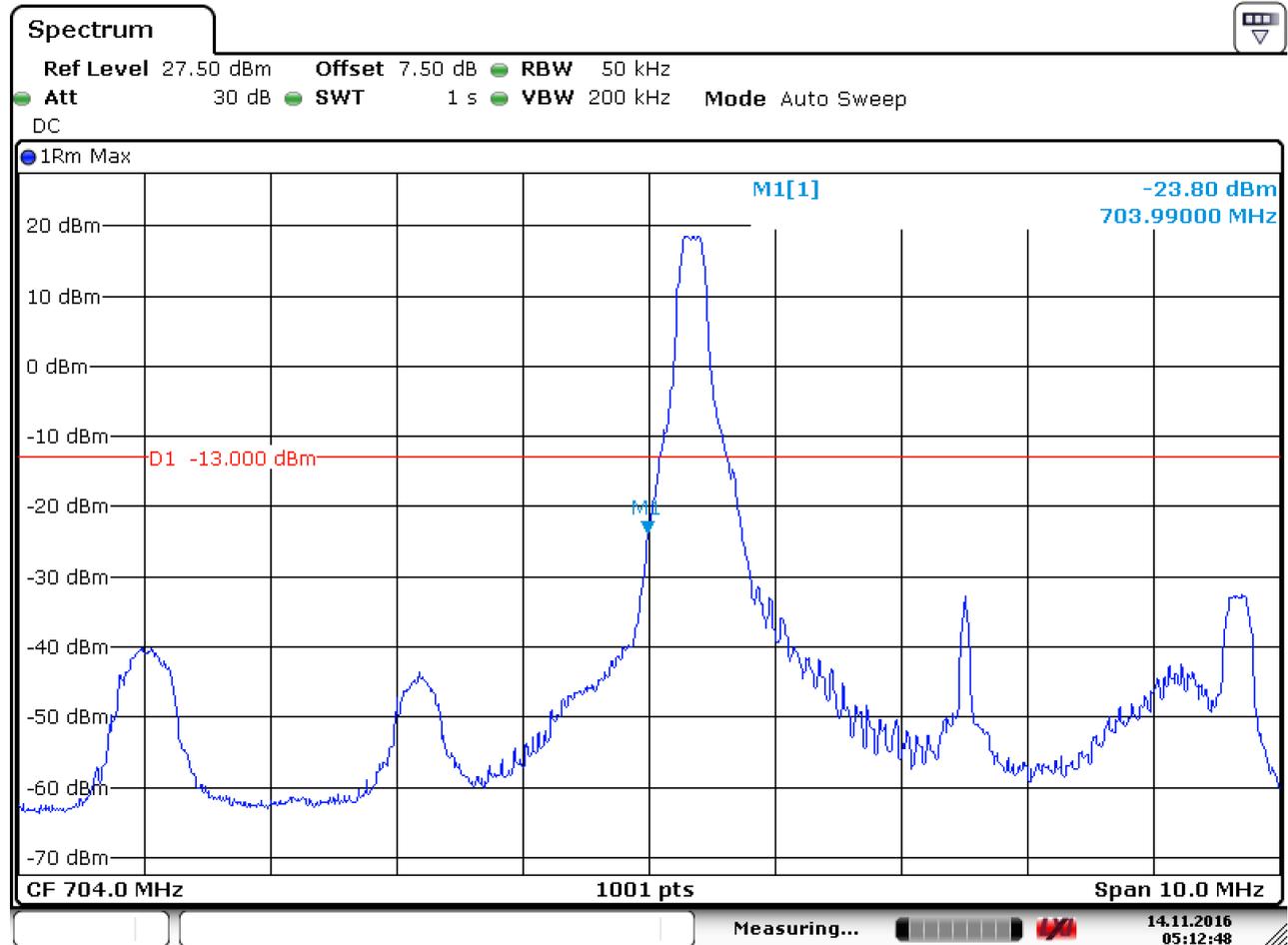
Part I -

5.1.1 Test Band = LTE band2

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

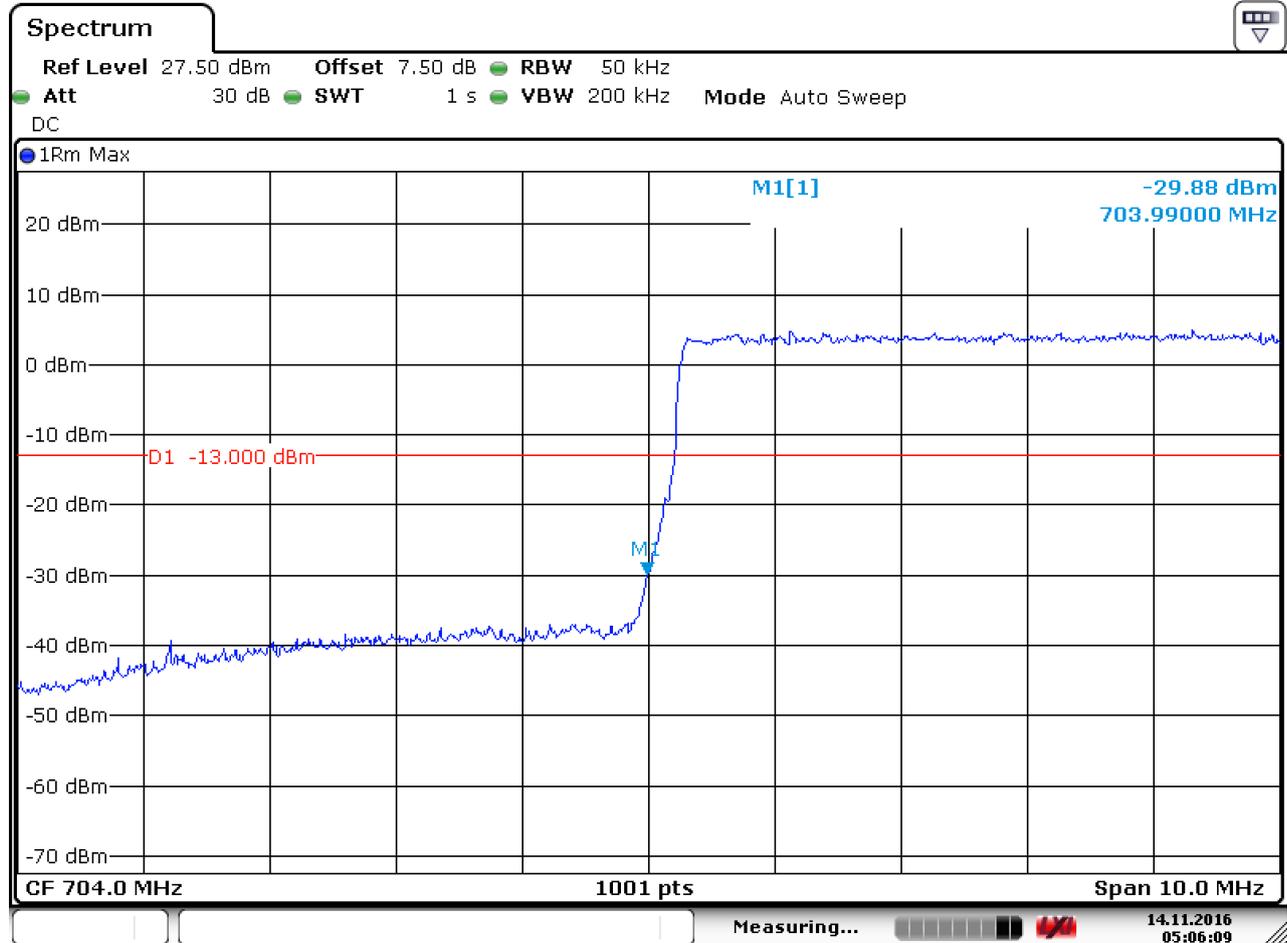
5.1.1.1.1.1 Test RB=1RB



Date: 14.NOV.2016 05:12:48



5.1.1.1.1.2 Test RB=25RB



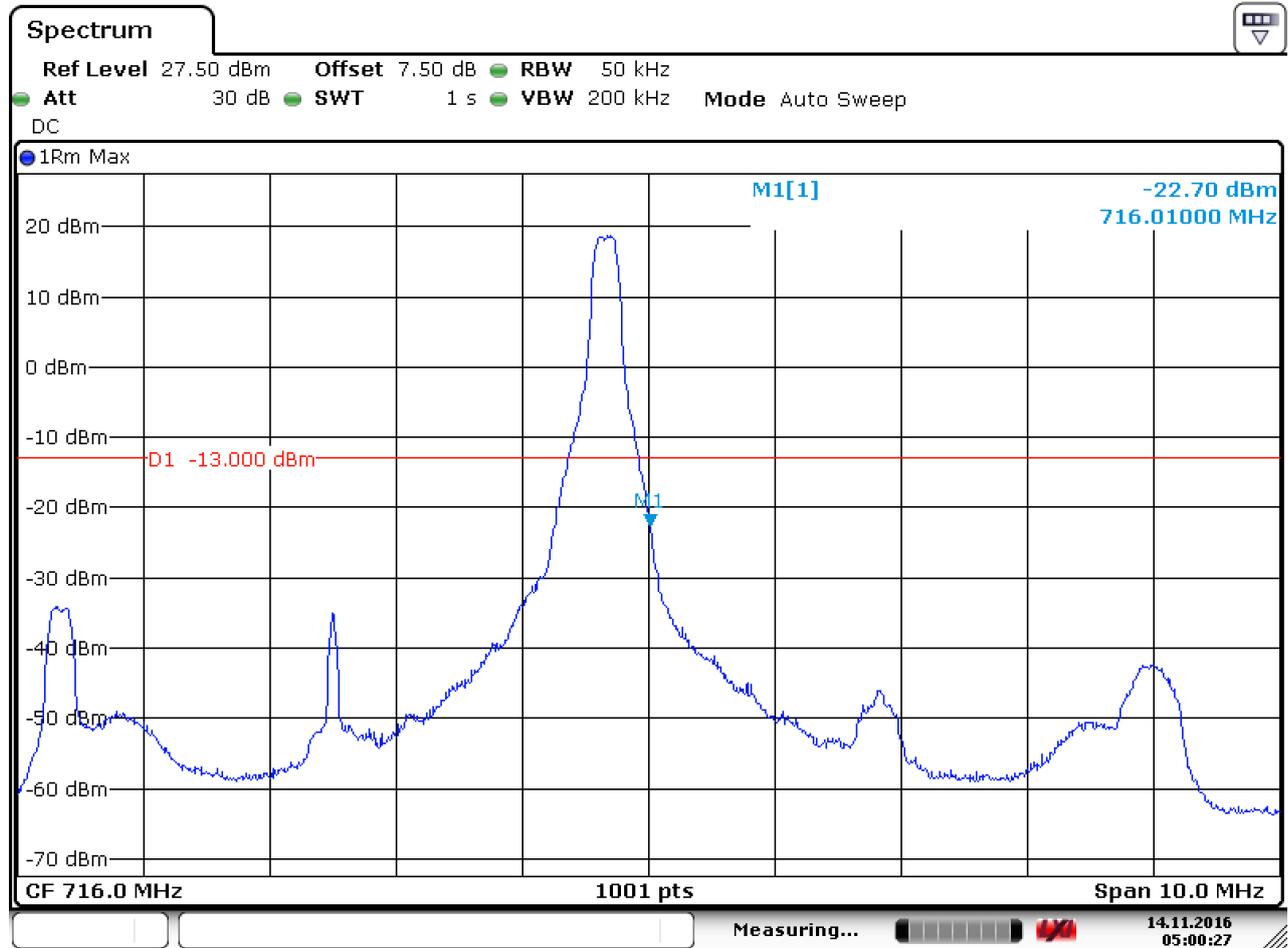
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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

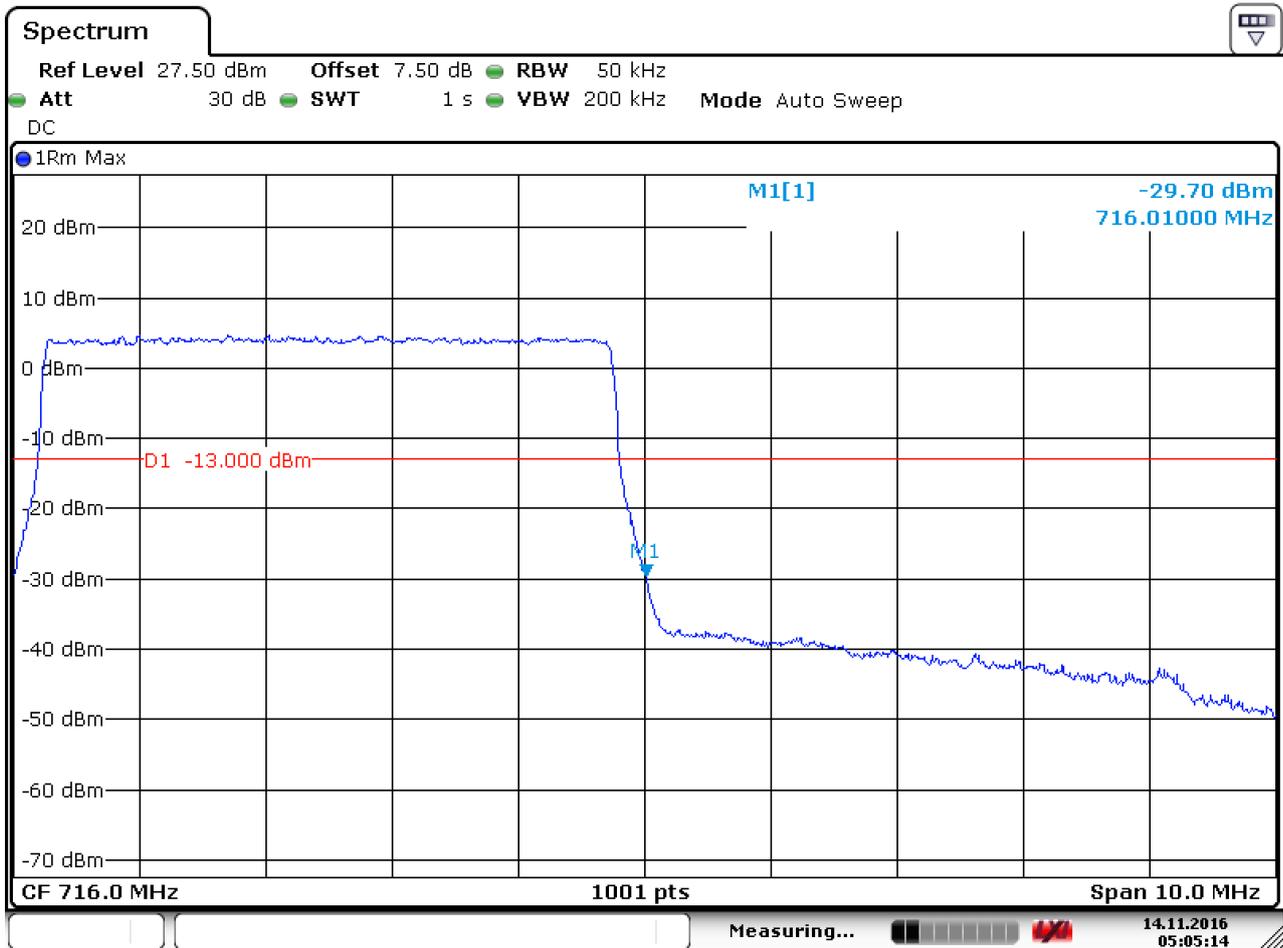


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5.1.1.1.2.2 Test RB=25RB



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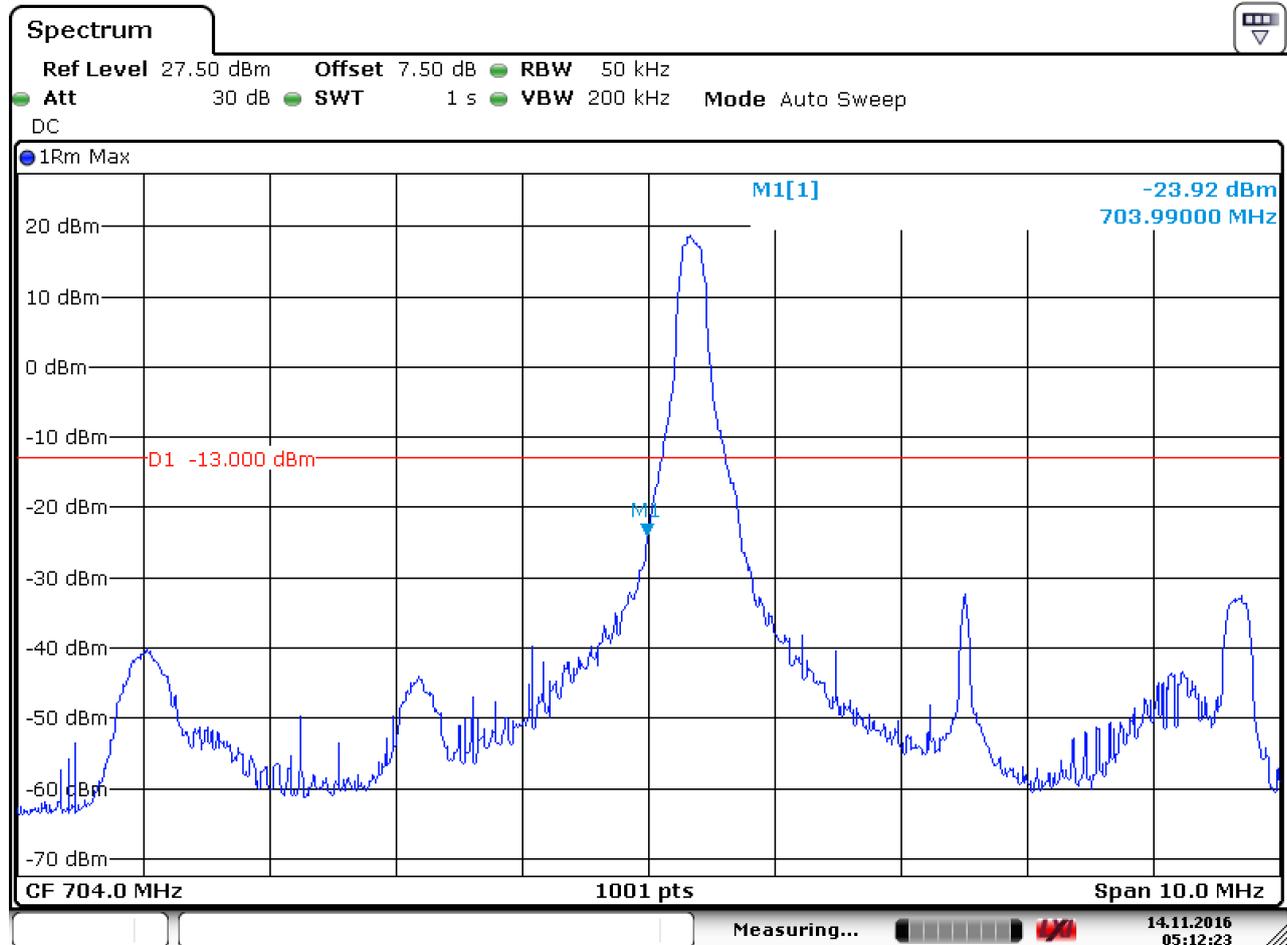
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5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB

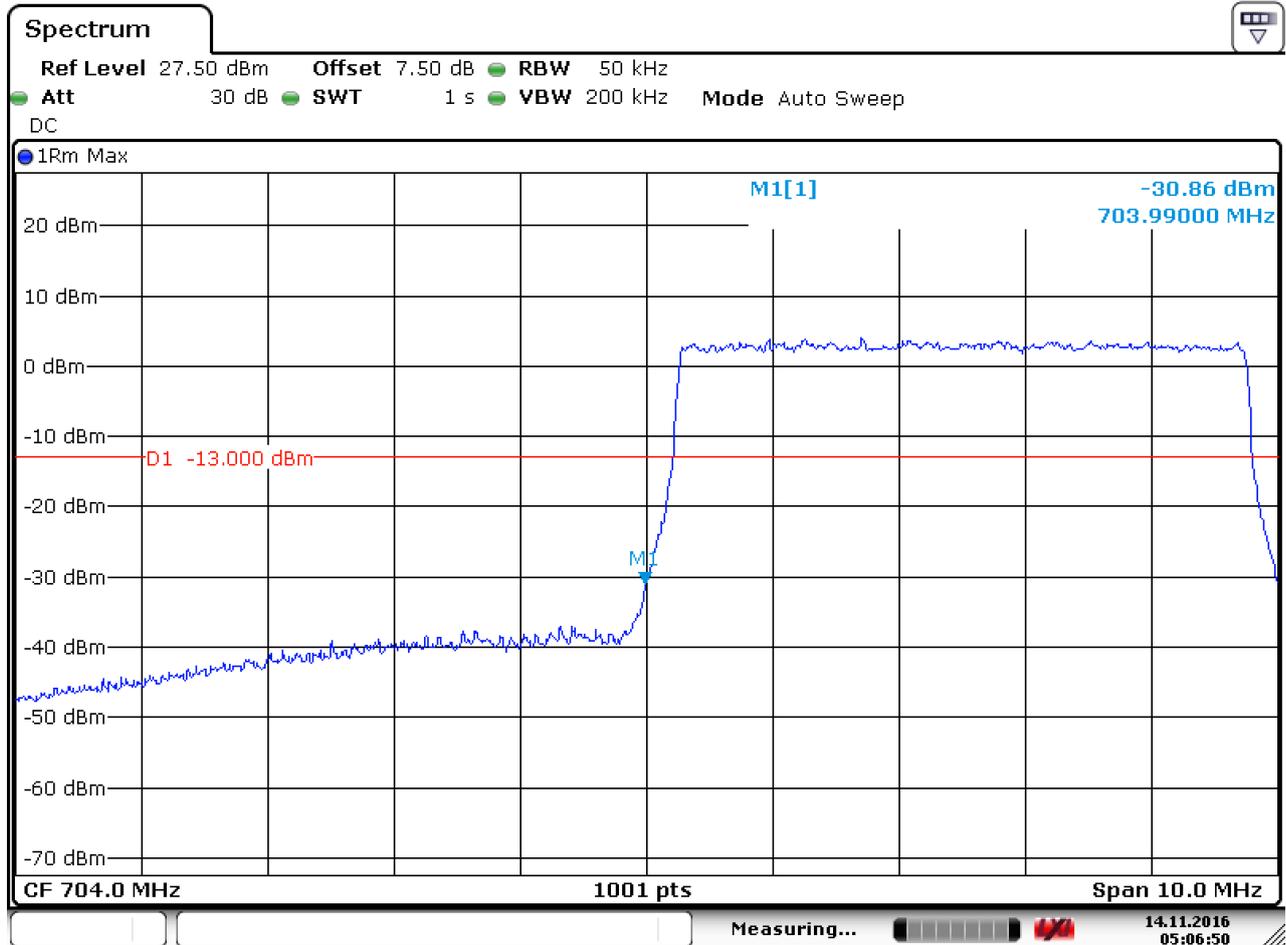


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5.1.1.2.1.2 Test RB=25RB



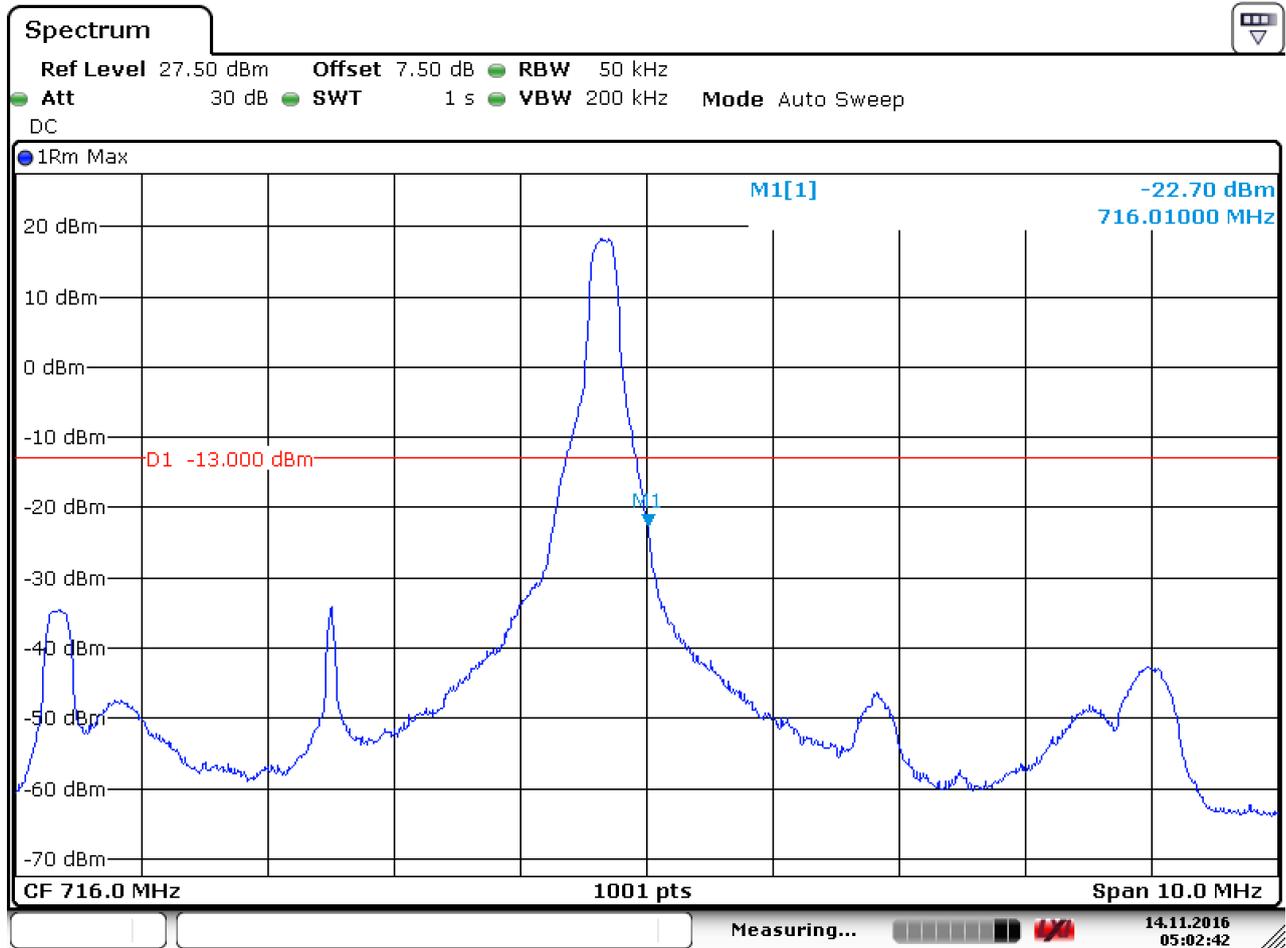
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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB

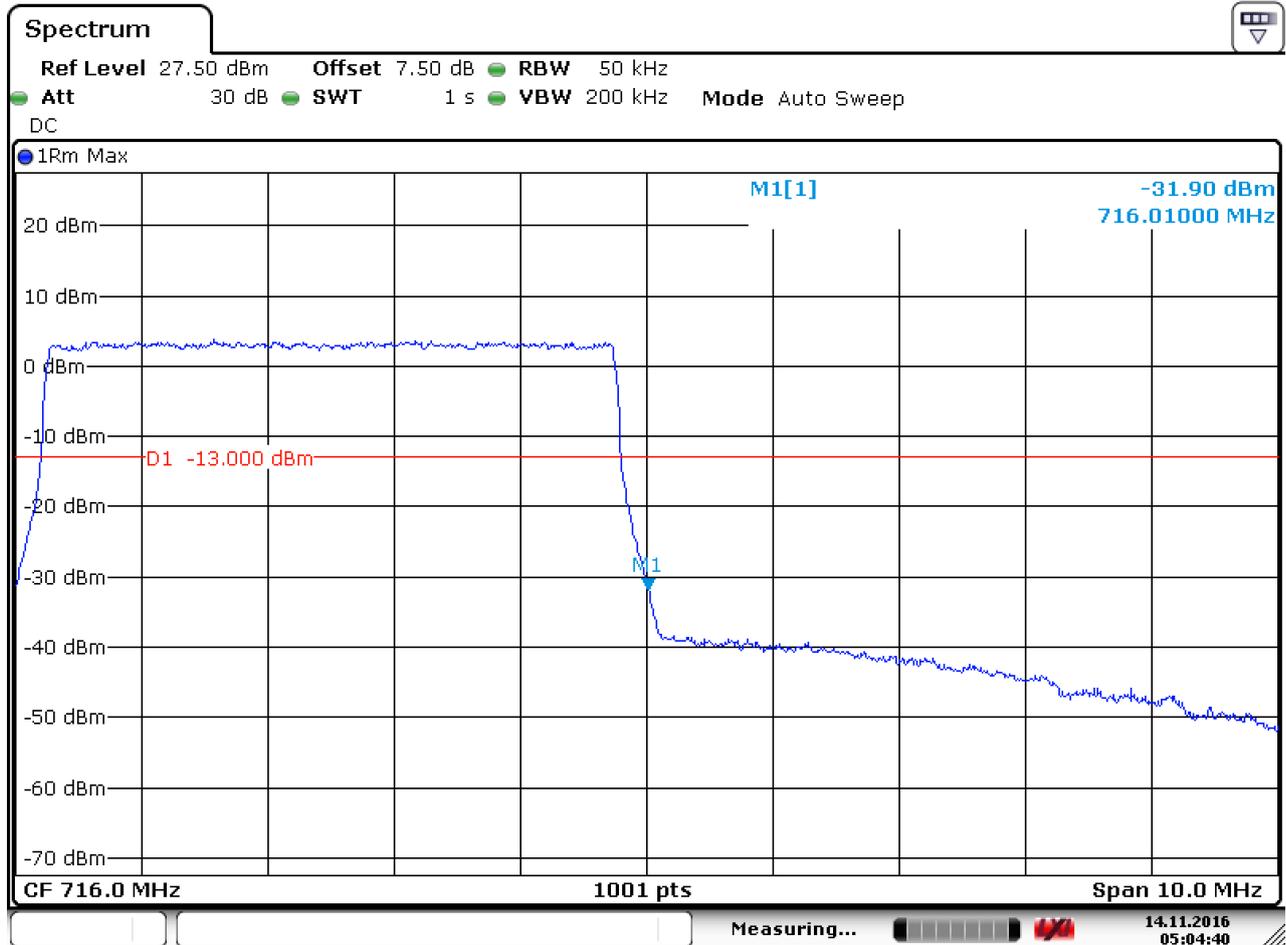


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5.1.1.2.2.2 Test RB=25RB



Date: 14.NOV.2016 05:04:41

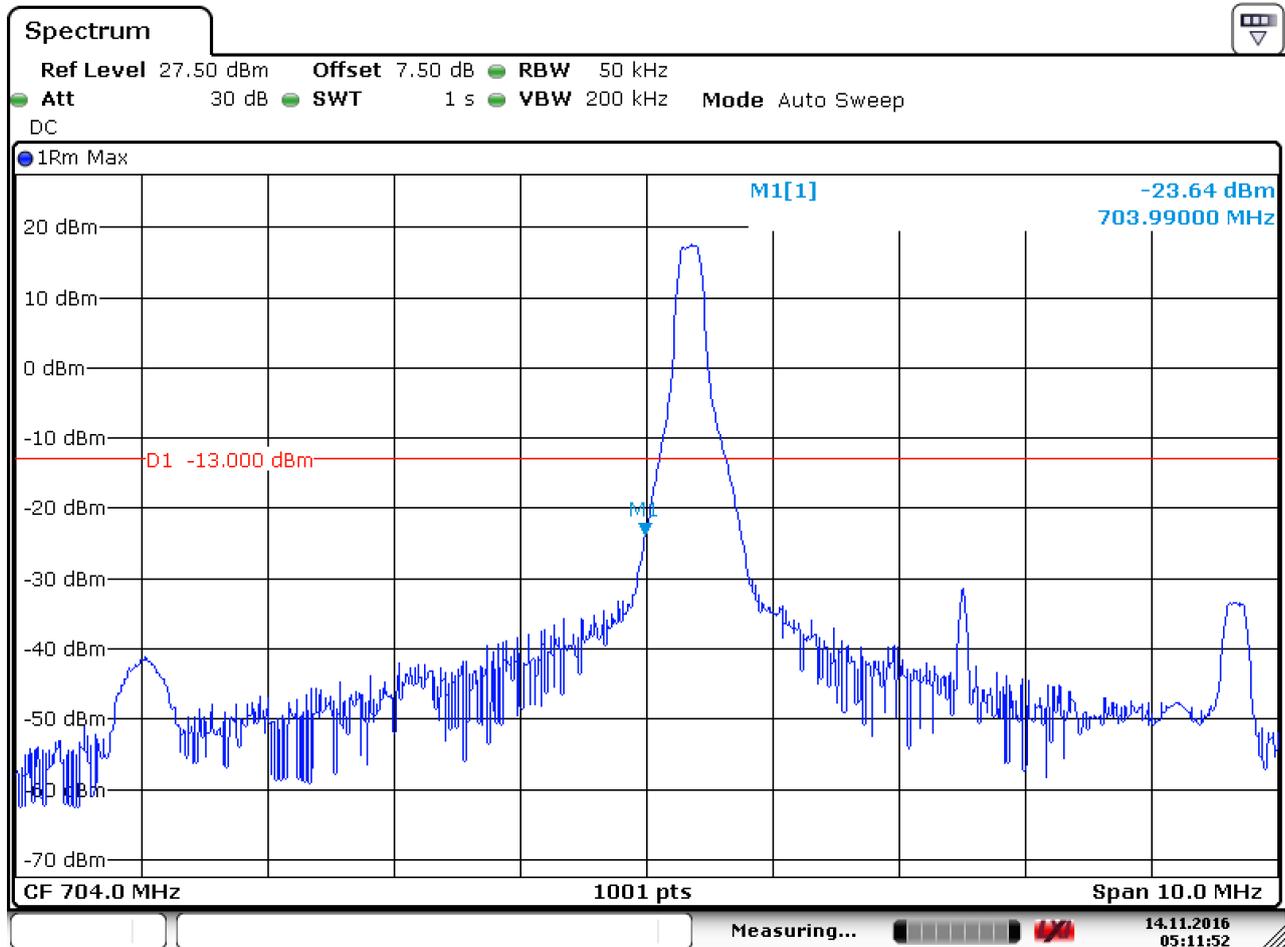
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5.1.1.3 Test Mode = LTE/TM3 5MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

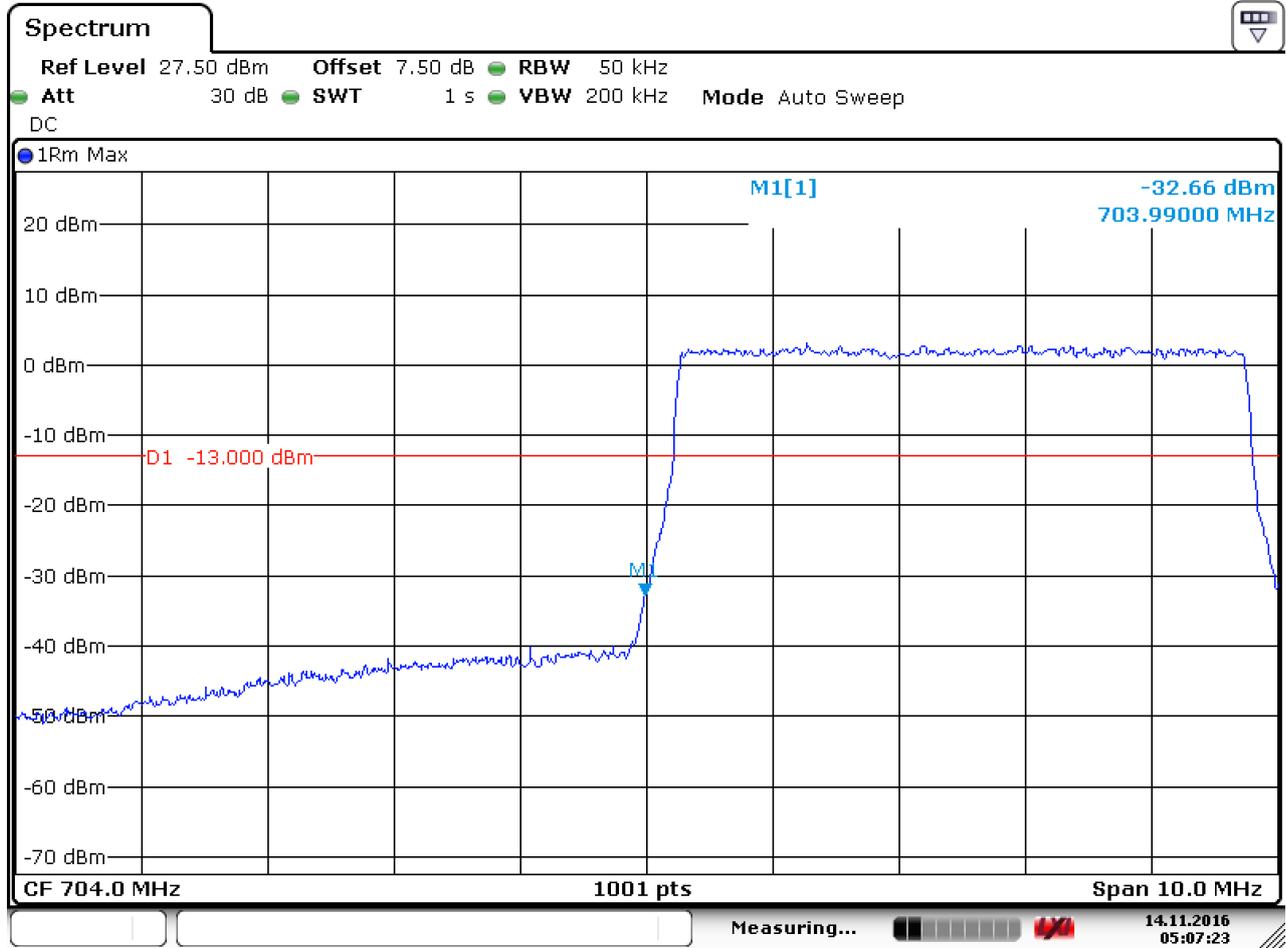


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5.1.1.3.1.2 Test RB=25RB



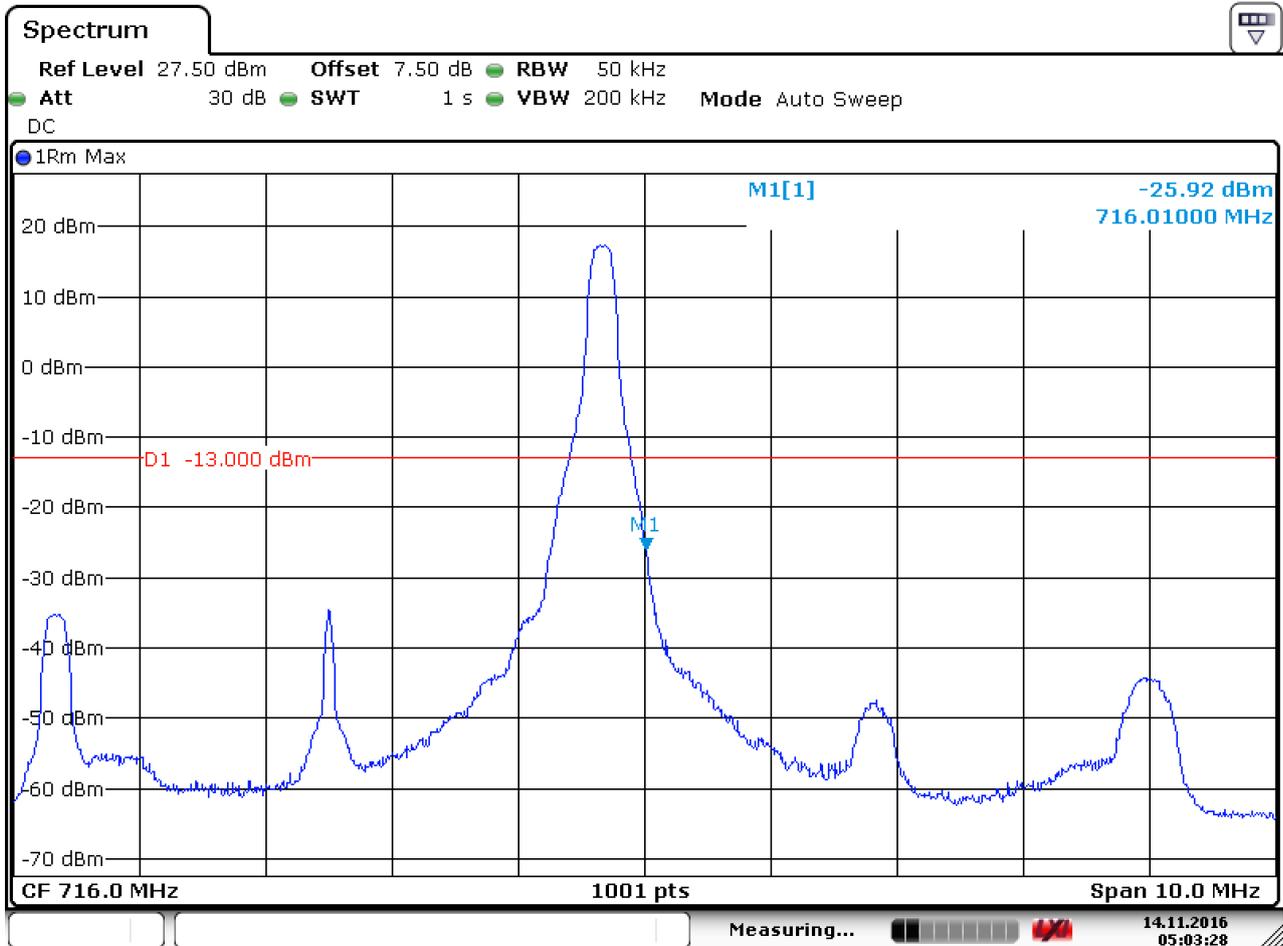
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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

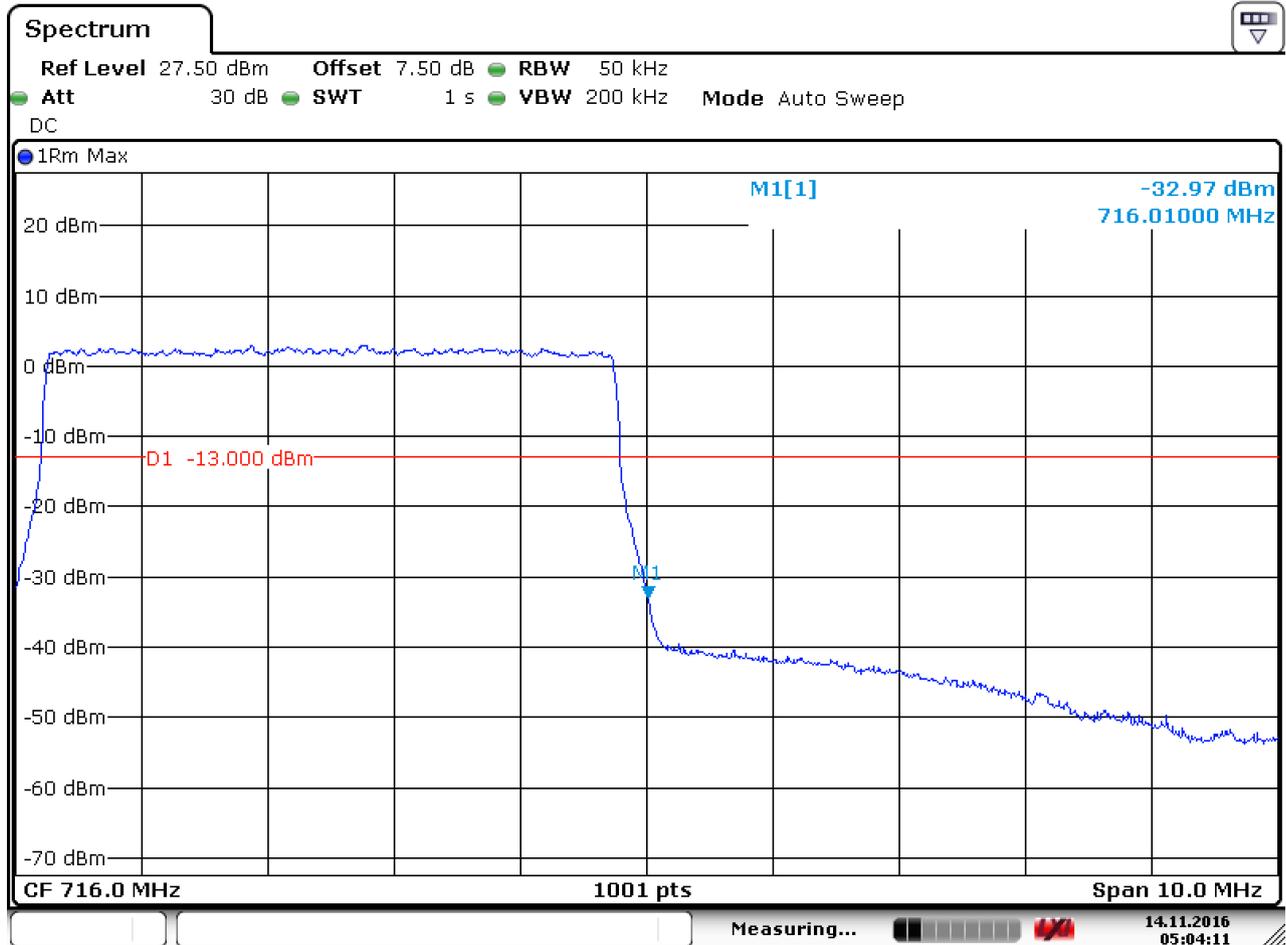


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5.1.1.3.2.2 Test RB=25RB



Date: 14.NOV.2016 05:04:11

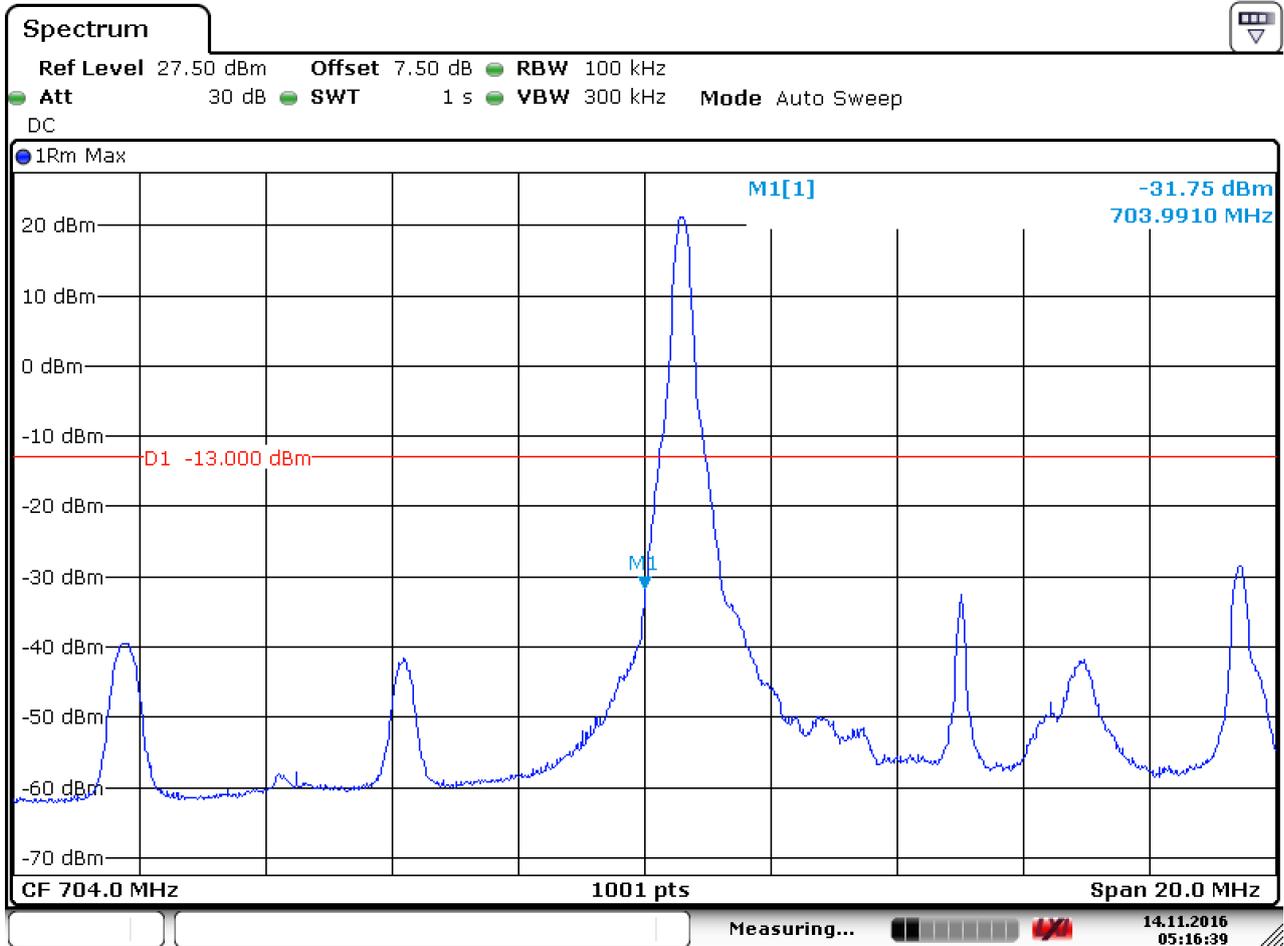
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5.1.1.4 Test Mode = LTE/TM1 10MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

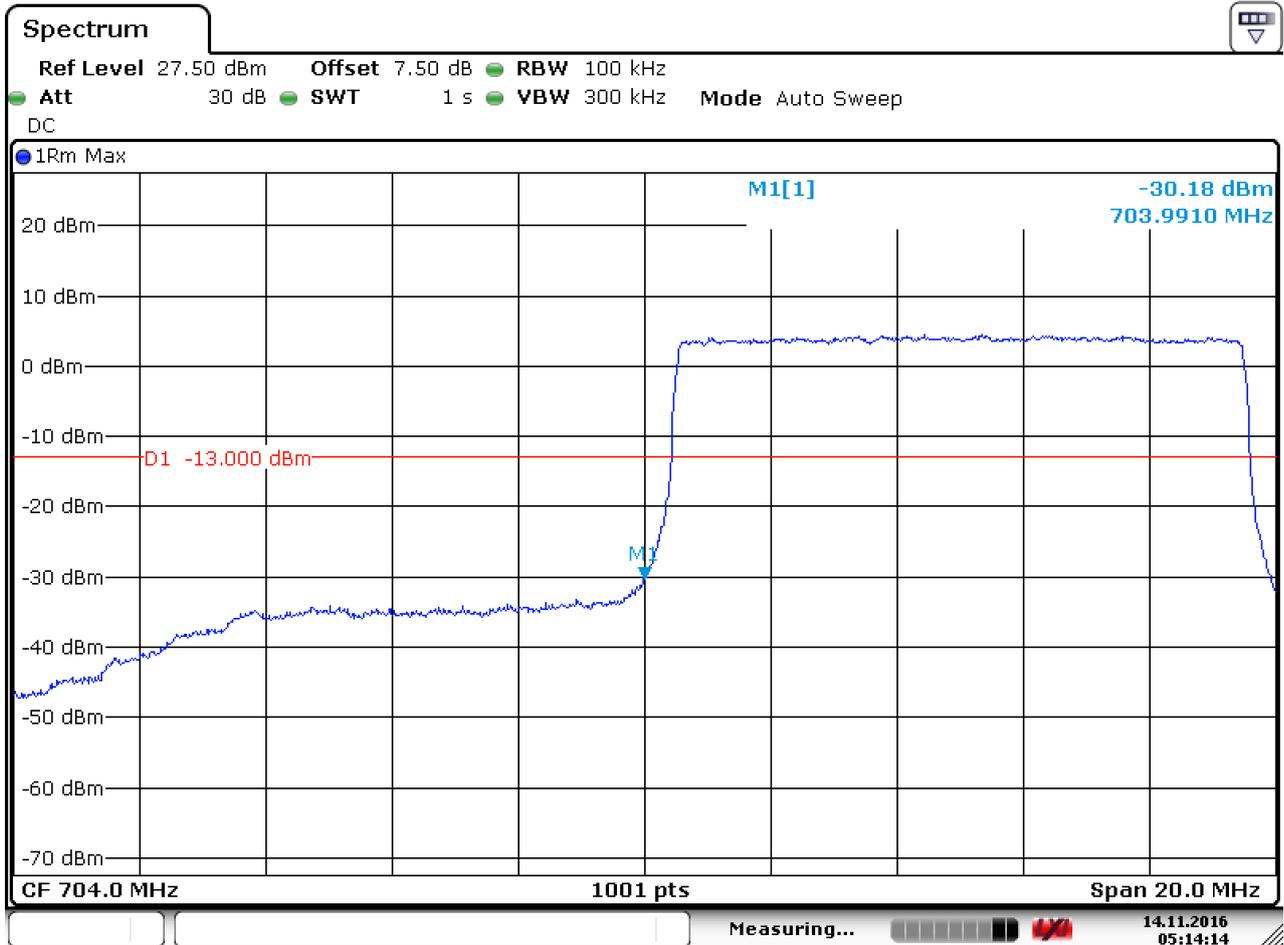


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5.1.1.4.1.2 Test RB=50RB

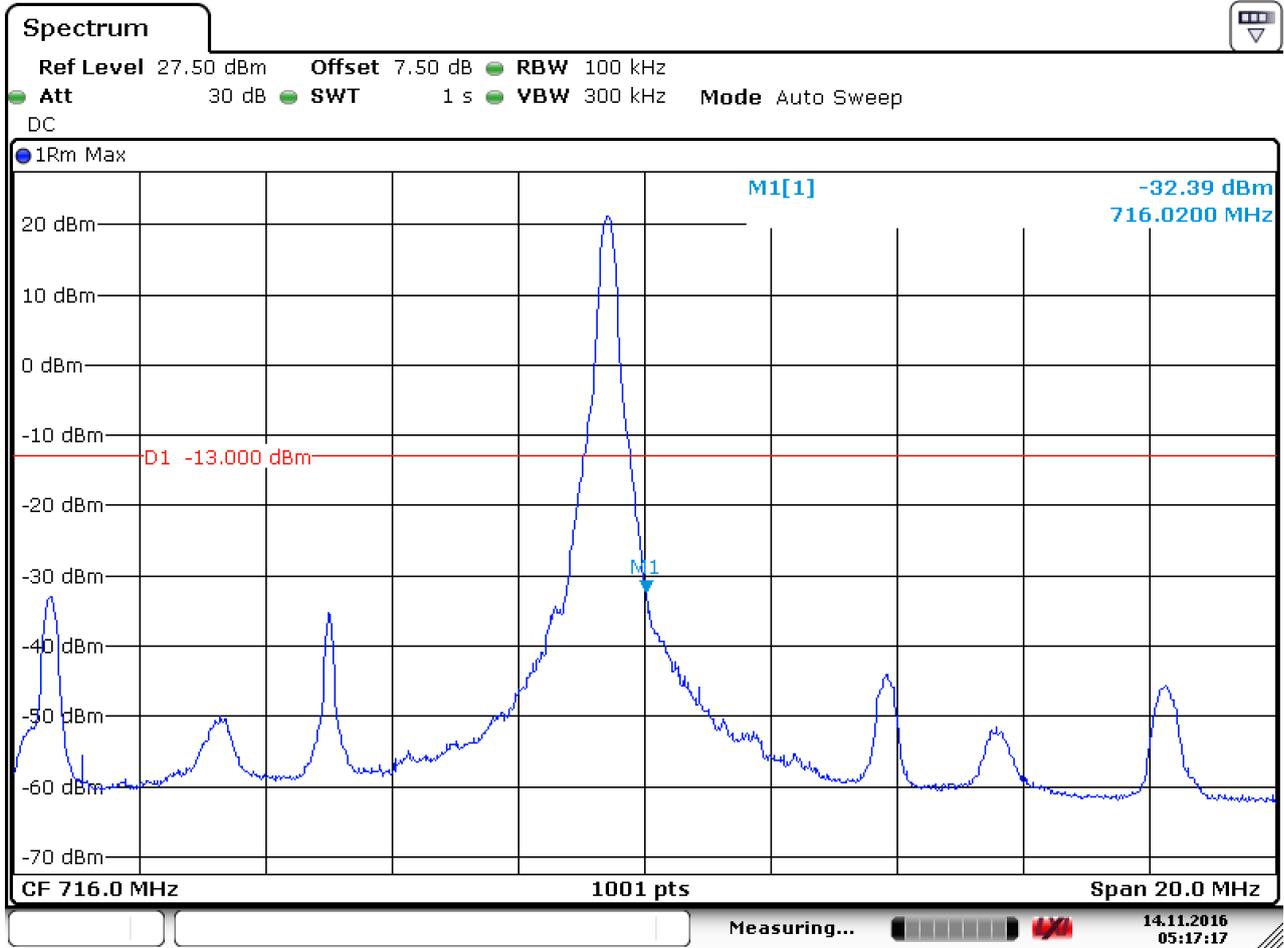


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5.1.1.4.2 Test Channel = HCH

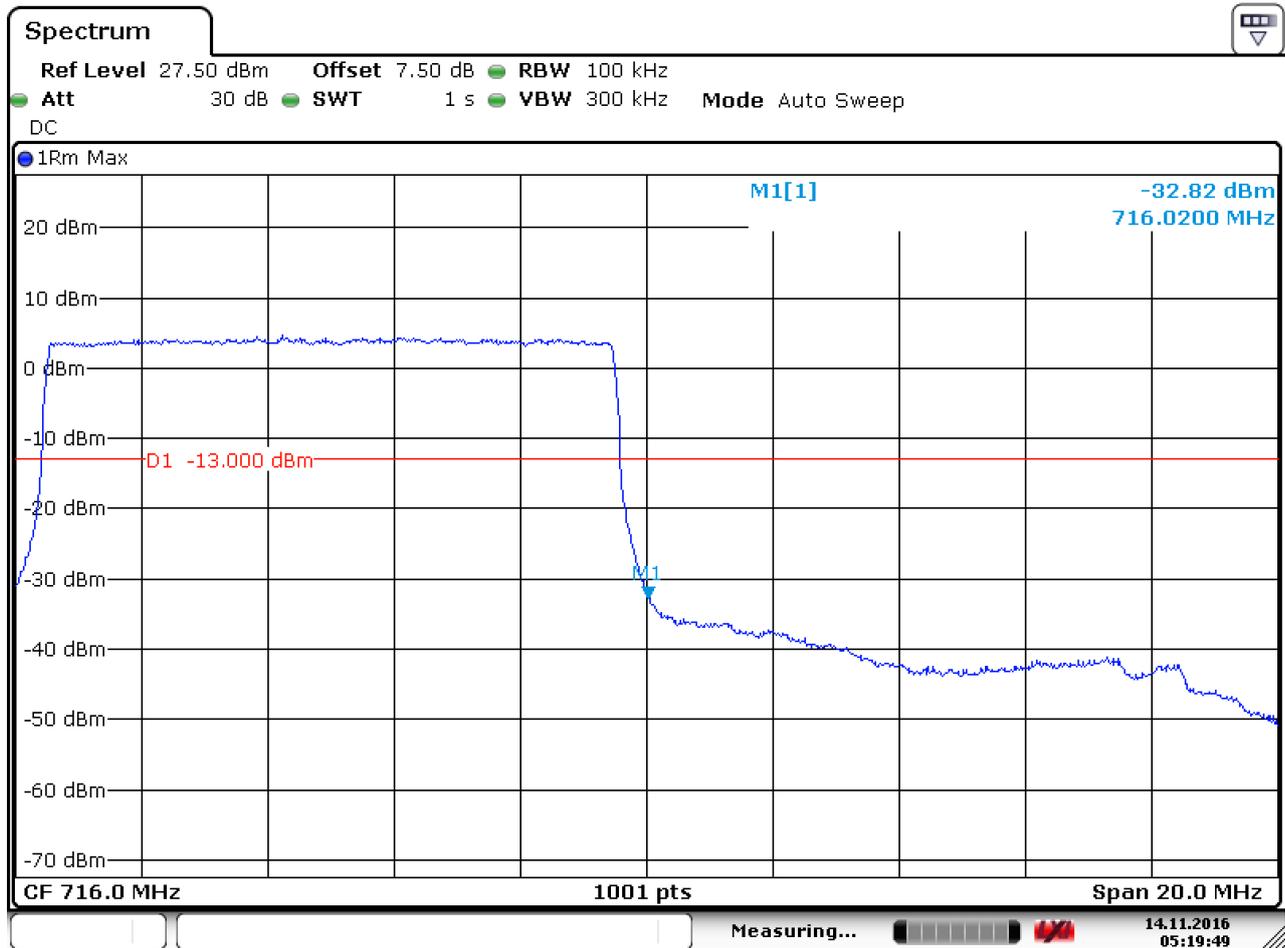
5.1.1.4.2.1 Test RB=1RB



Date: 14.NOV.2016 05:17:18



5.1.1.4.2.2 Test RB=50RB



Date: 14.NOV.2016 05:19:50

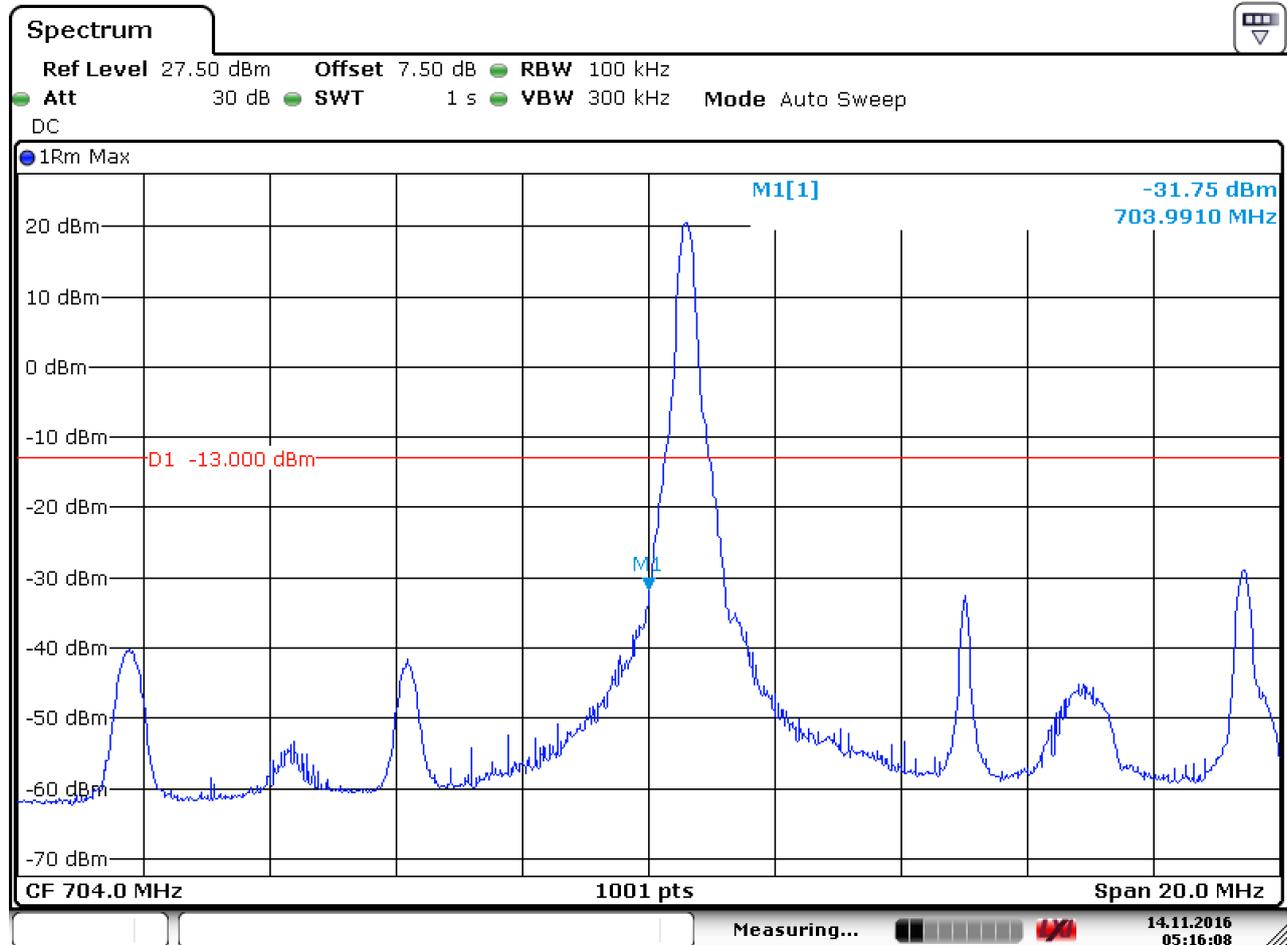
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5.1.1.5 Test Mode = LTE/TM2 10MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

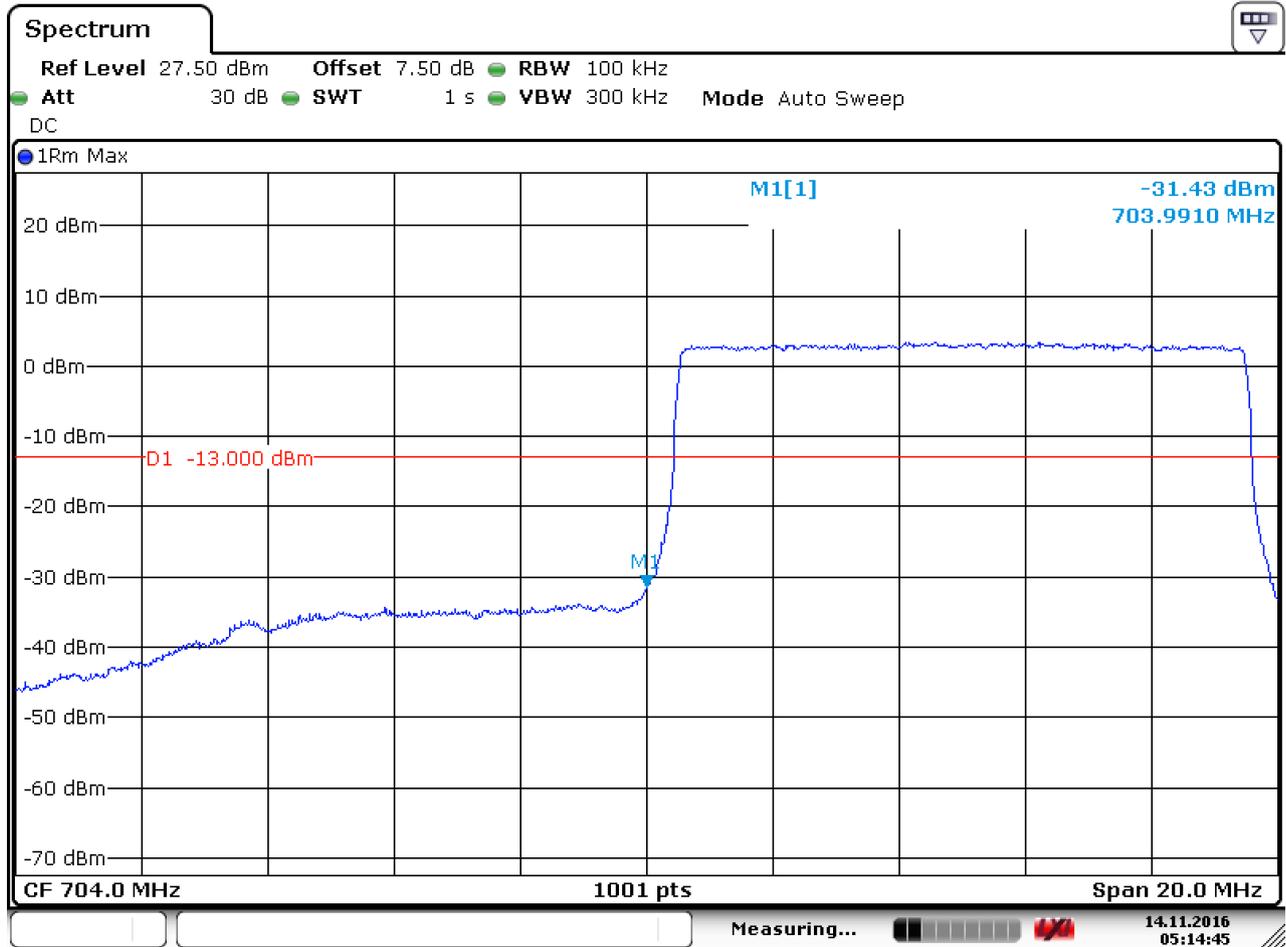


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5.1.1.5.1.2 Test RB=50RB

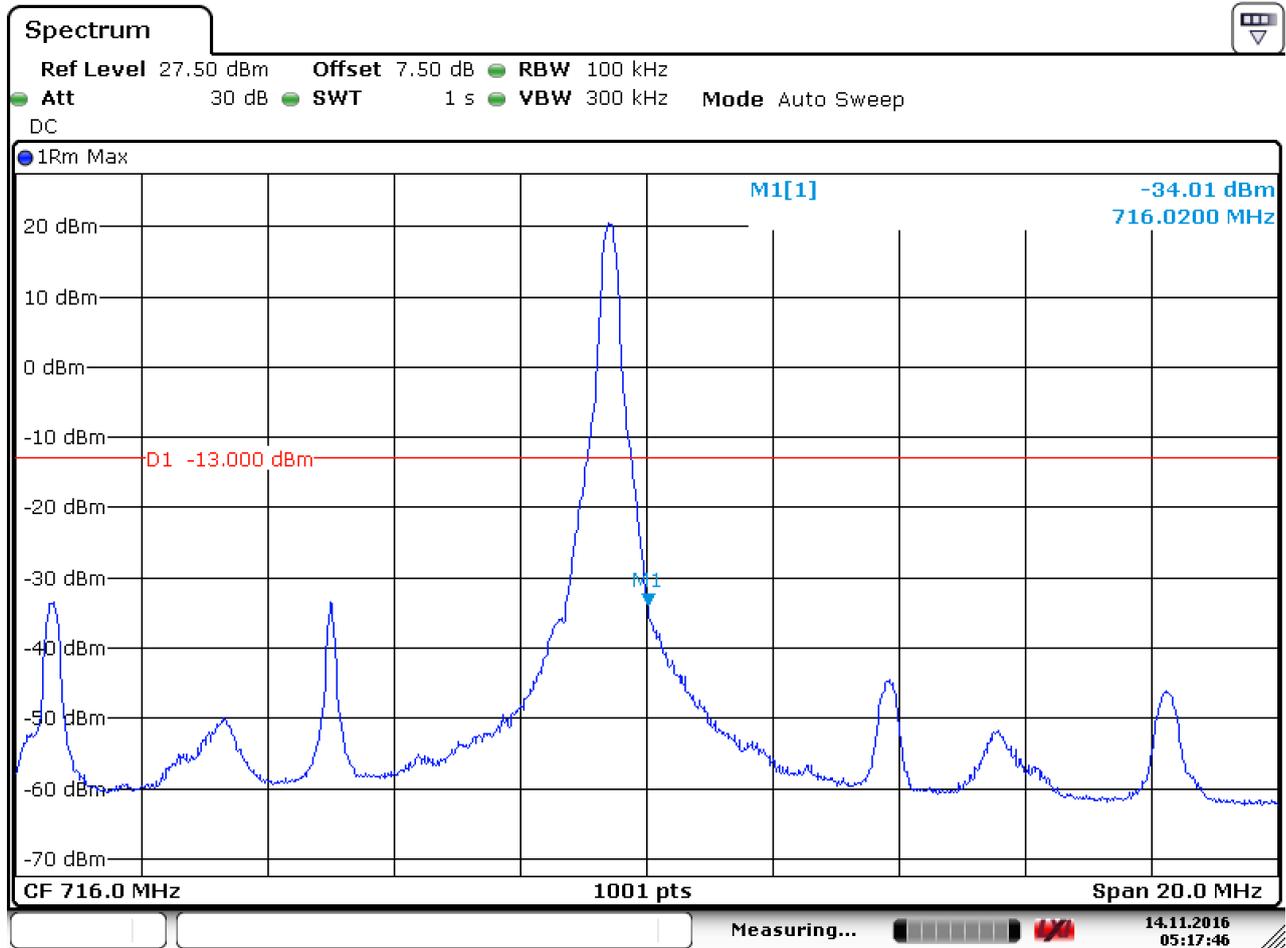


Date: 14.NOV.2016 05:14:46

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5.1.1.5.2 Test Channel = HCH

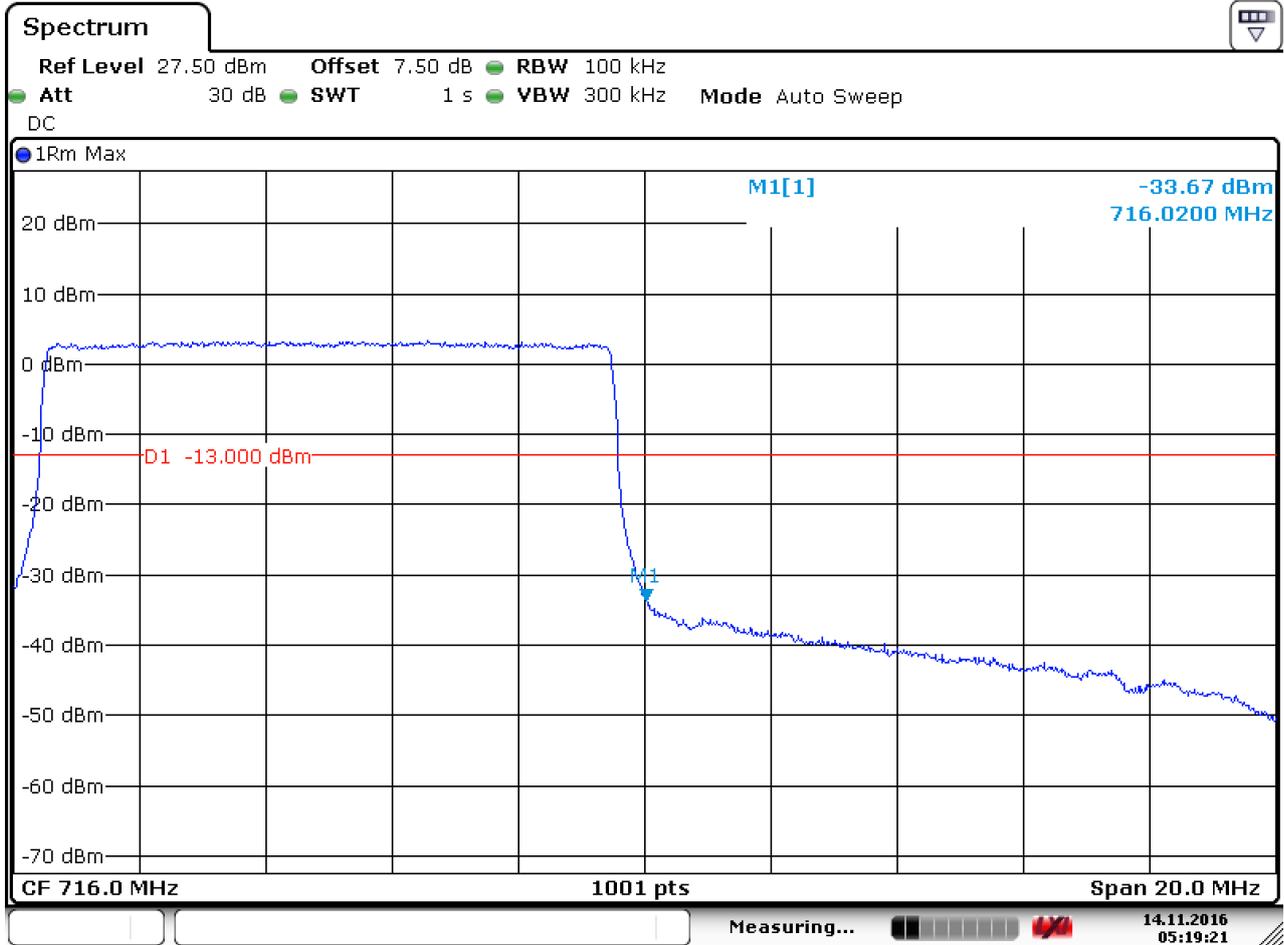
5.1.1.5.2.1 Test RB=1RB



Date: 14.NOV.2016 05:17:46



5.1.1.5.2.2 Test RB=50RB



Date: 14.NOV.2016 05:19:22

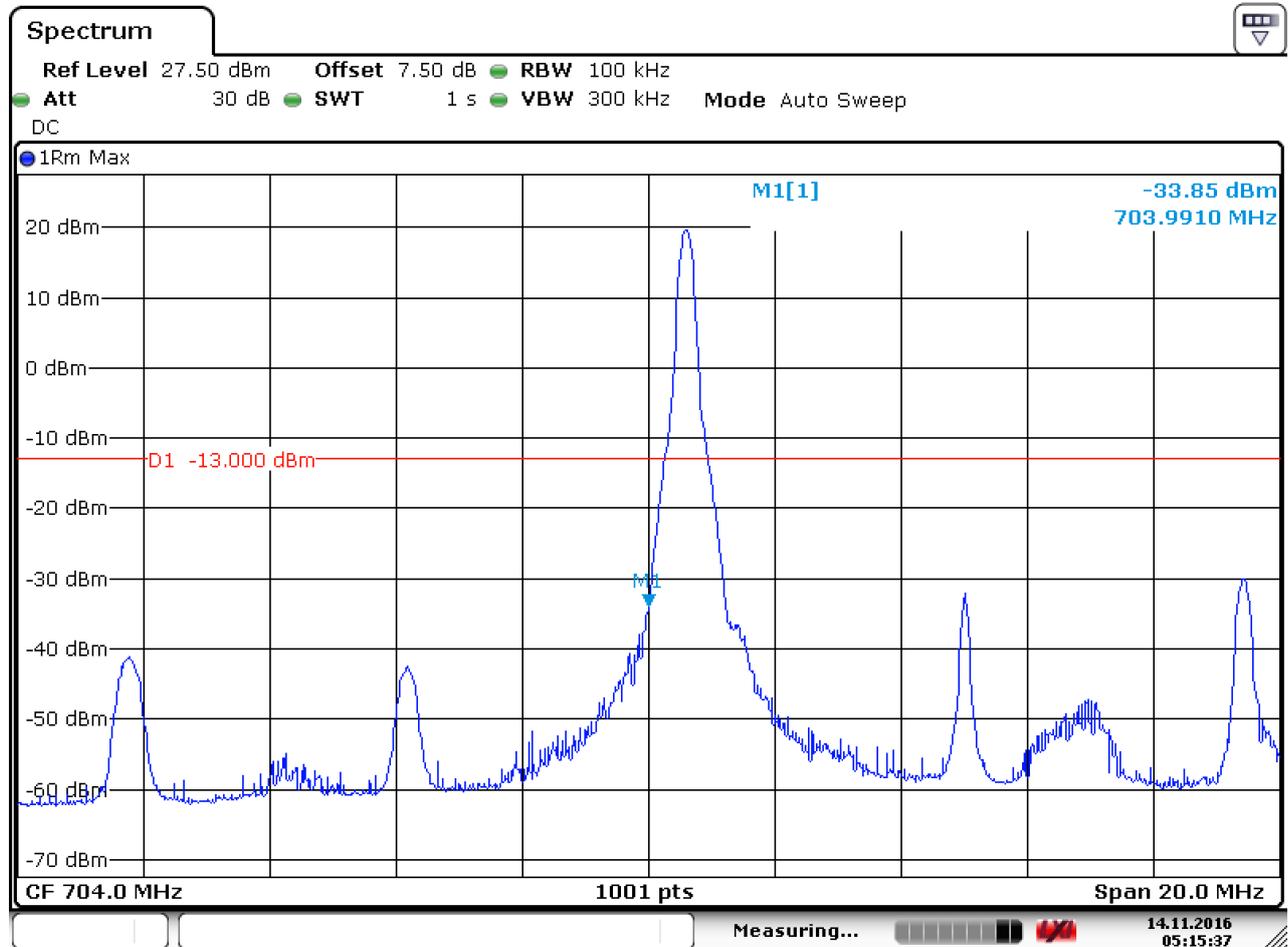
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5.1.1.6 Test Mode = LTE/TM3 10MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB

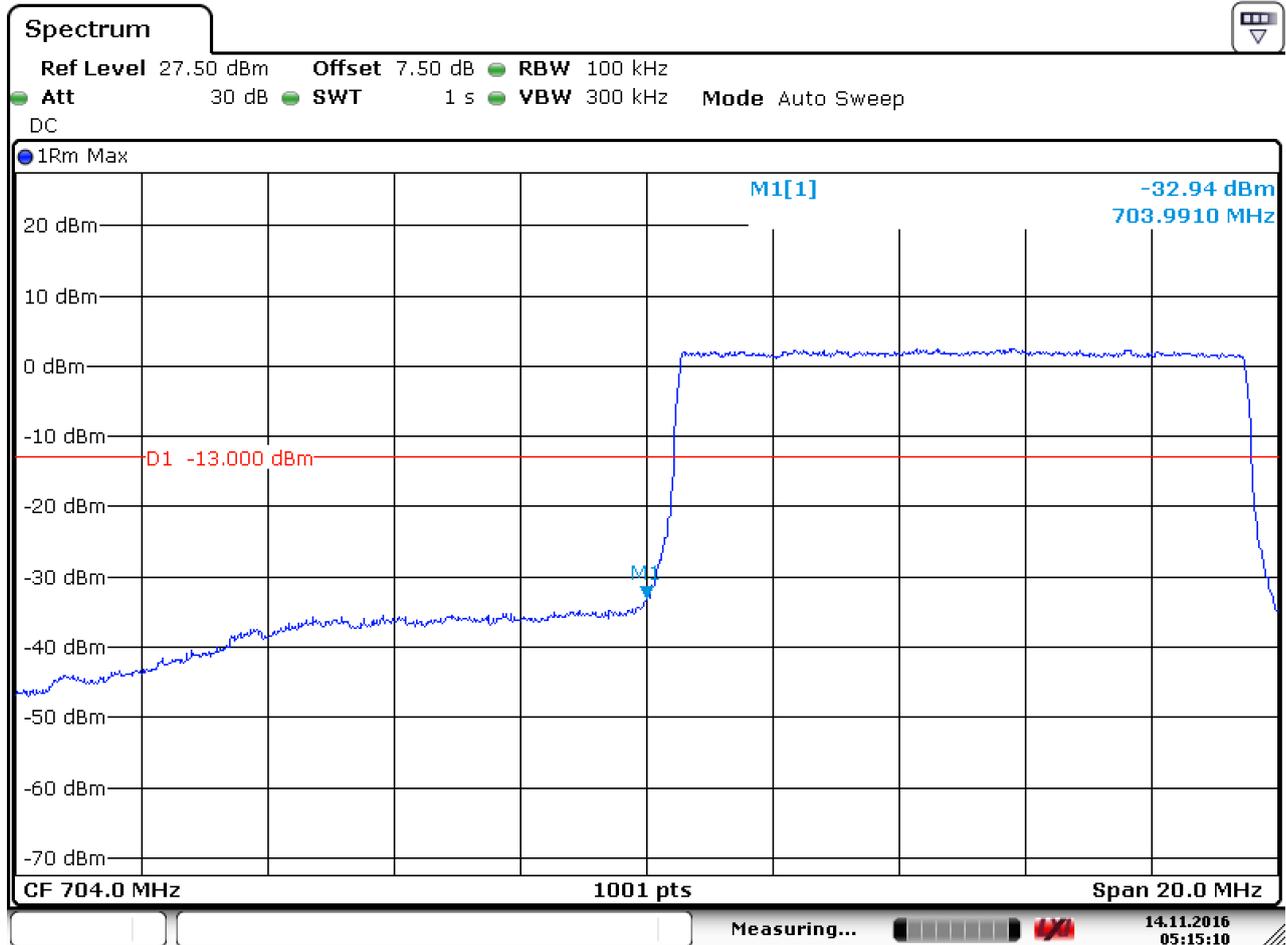


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5.1.1.6.1.2 Test RB=50RB



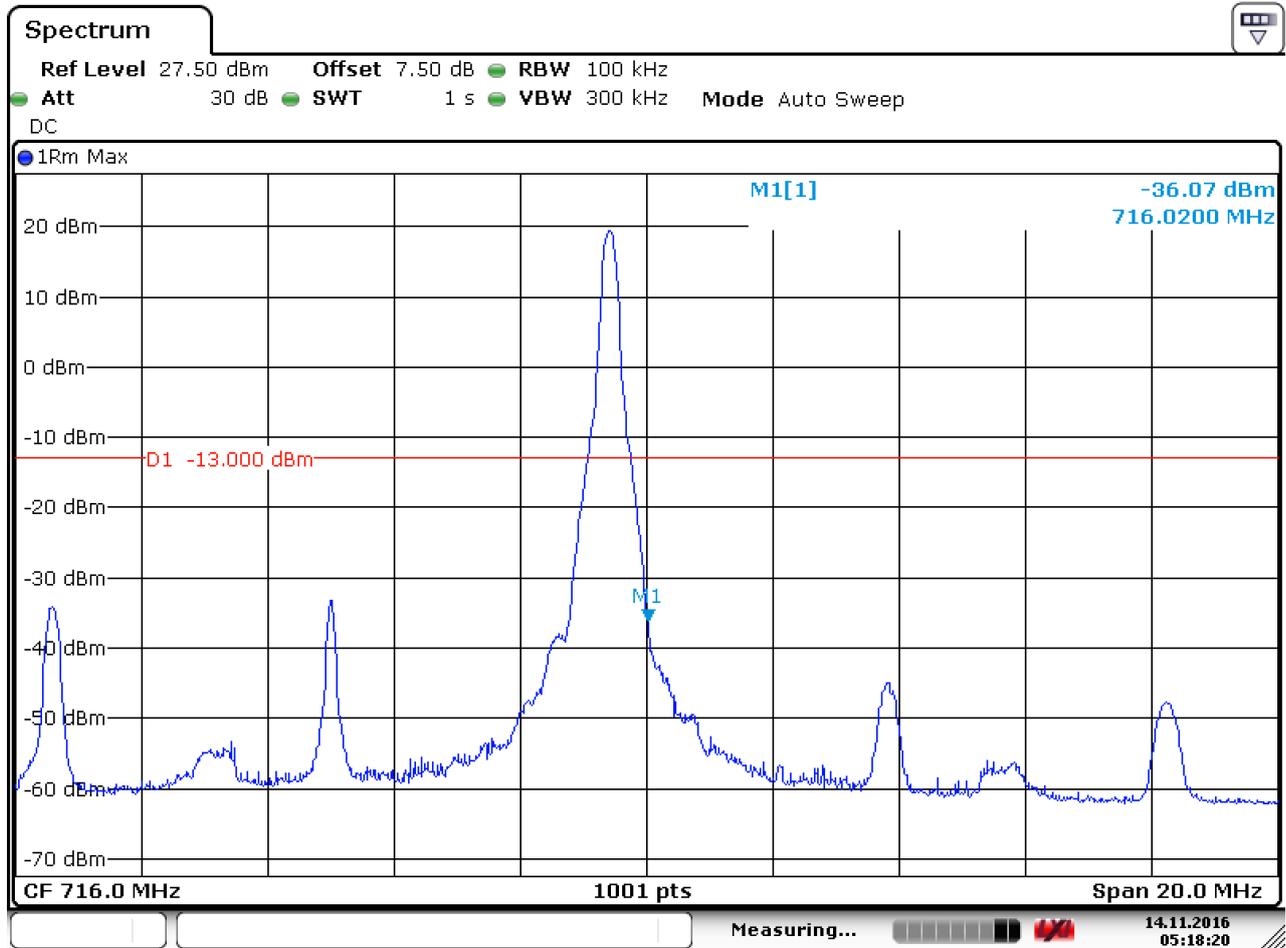
Date: 14.NOV.2016 05:15:10

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5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB

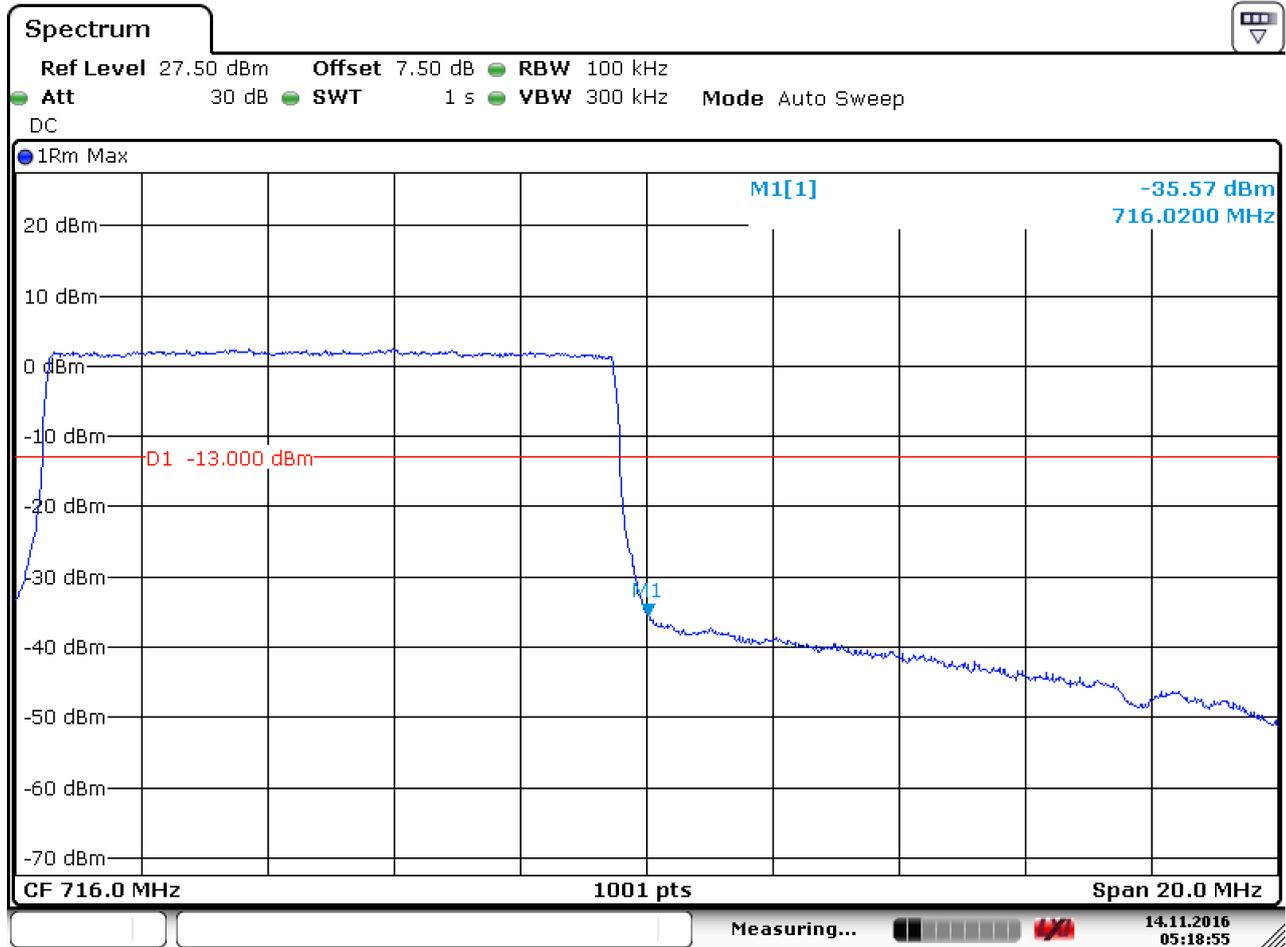


Date: 14.NOV.2016 05:18:20

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5.1.1.6.2.2 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.

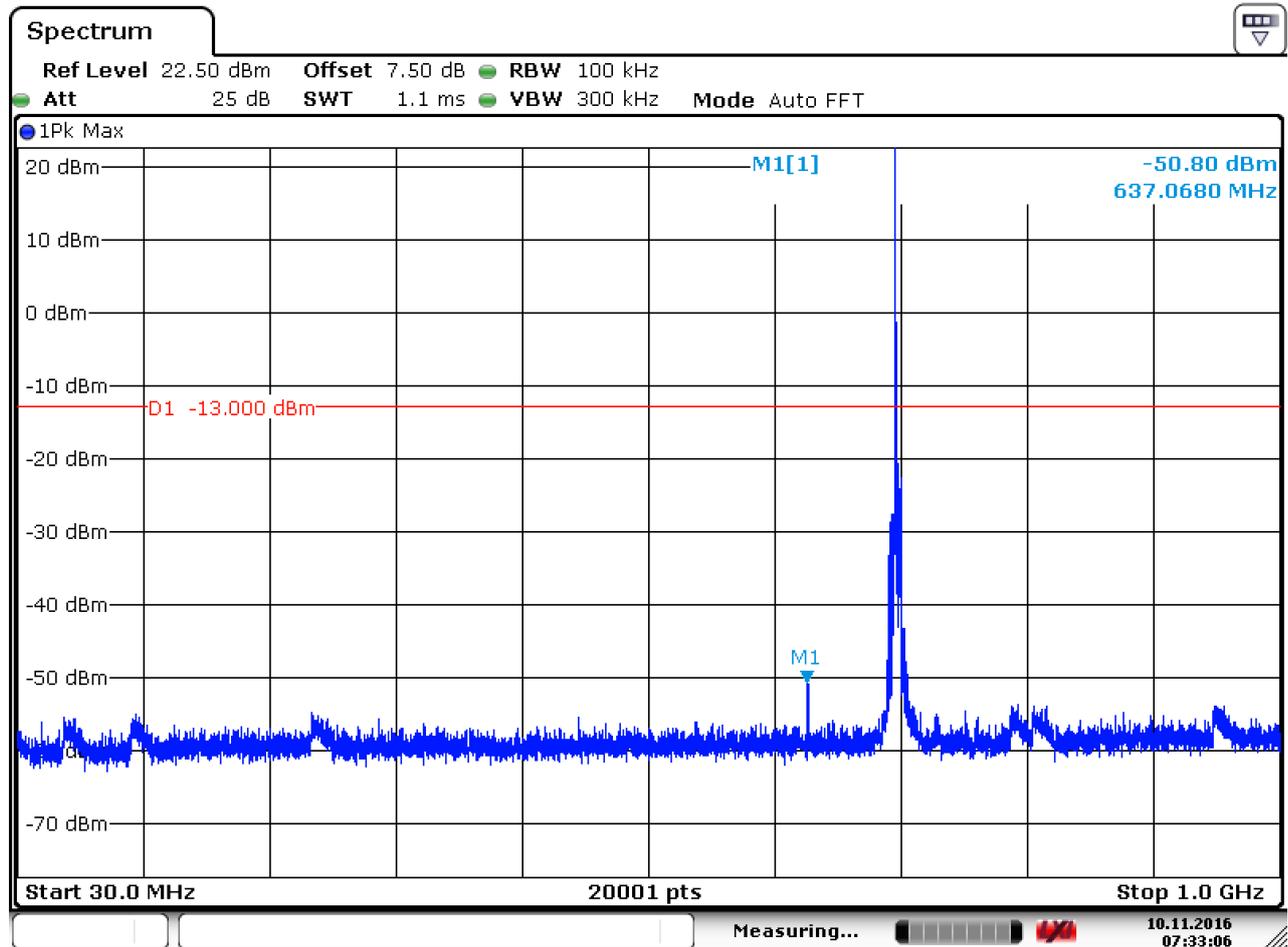
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band17

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

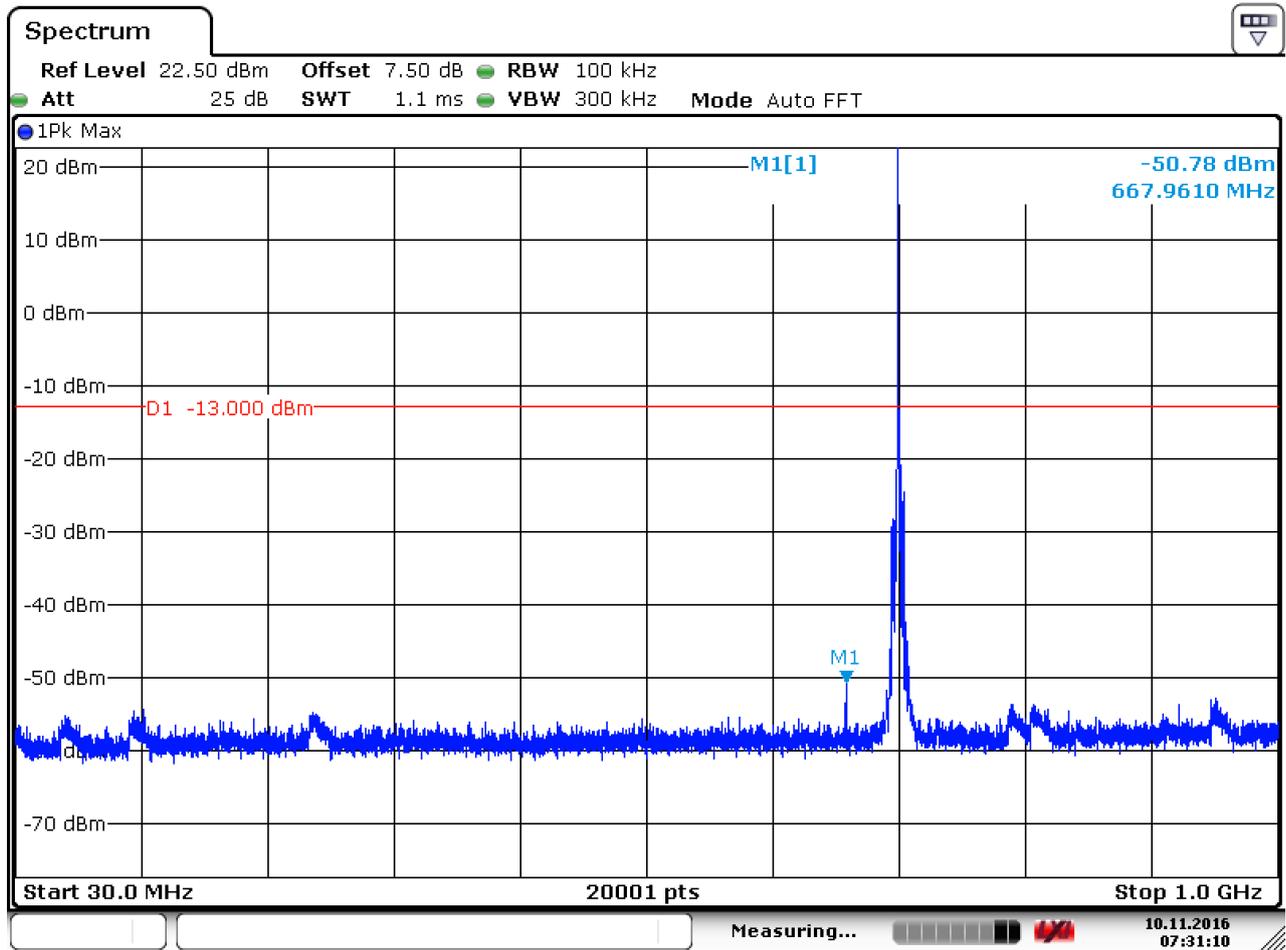
6.1.1.1.1 Test Channel = LCH



Date: 10.NOV.2016 07:33:06

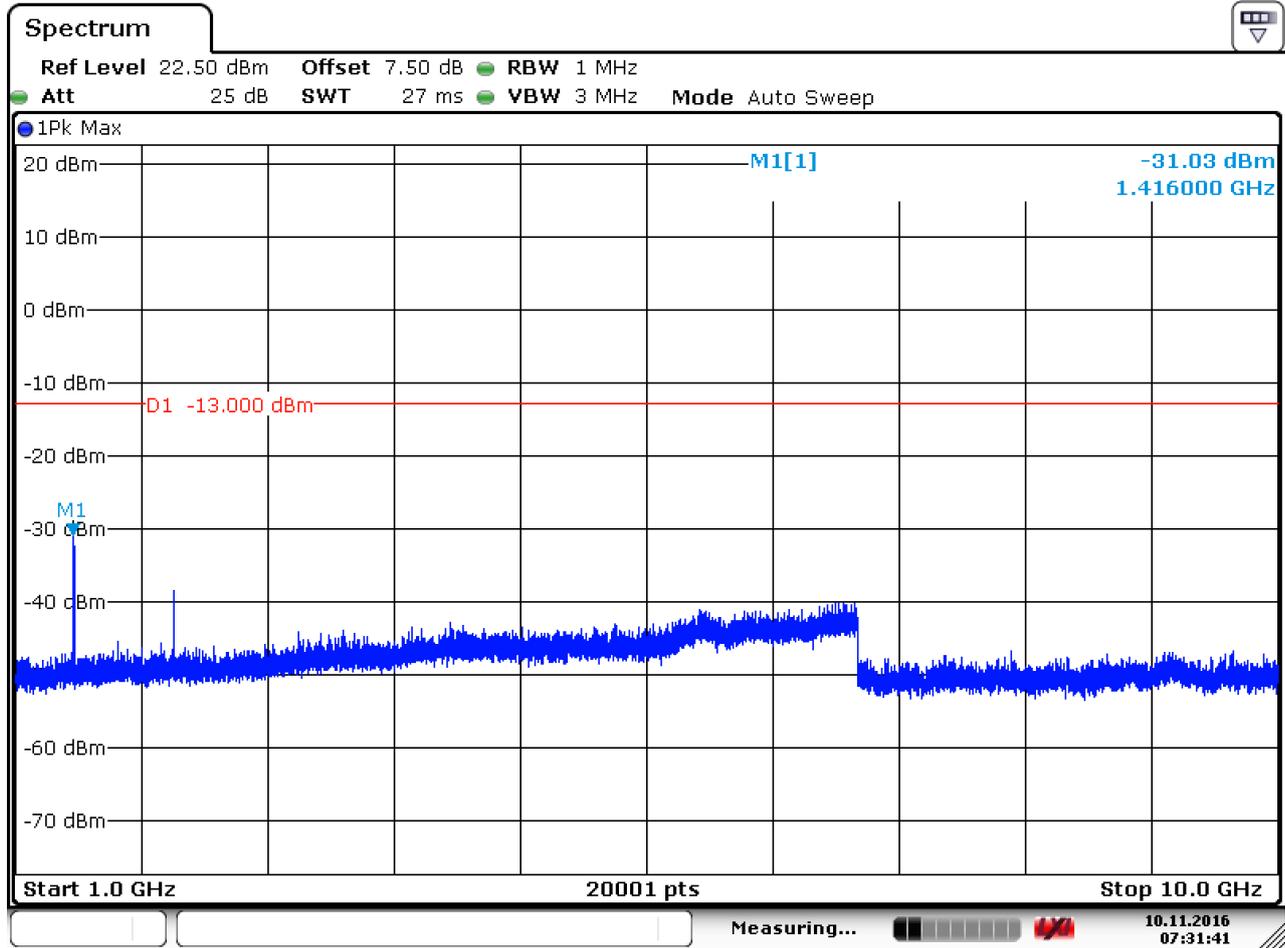


6.1.1.1.2 Test Channel = MCH



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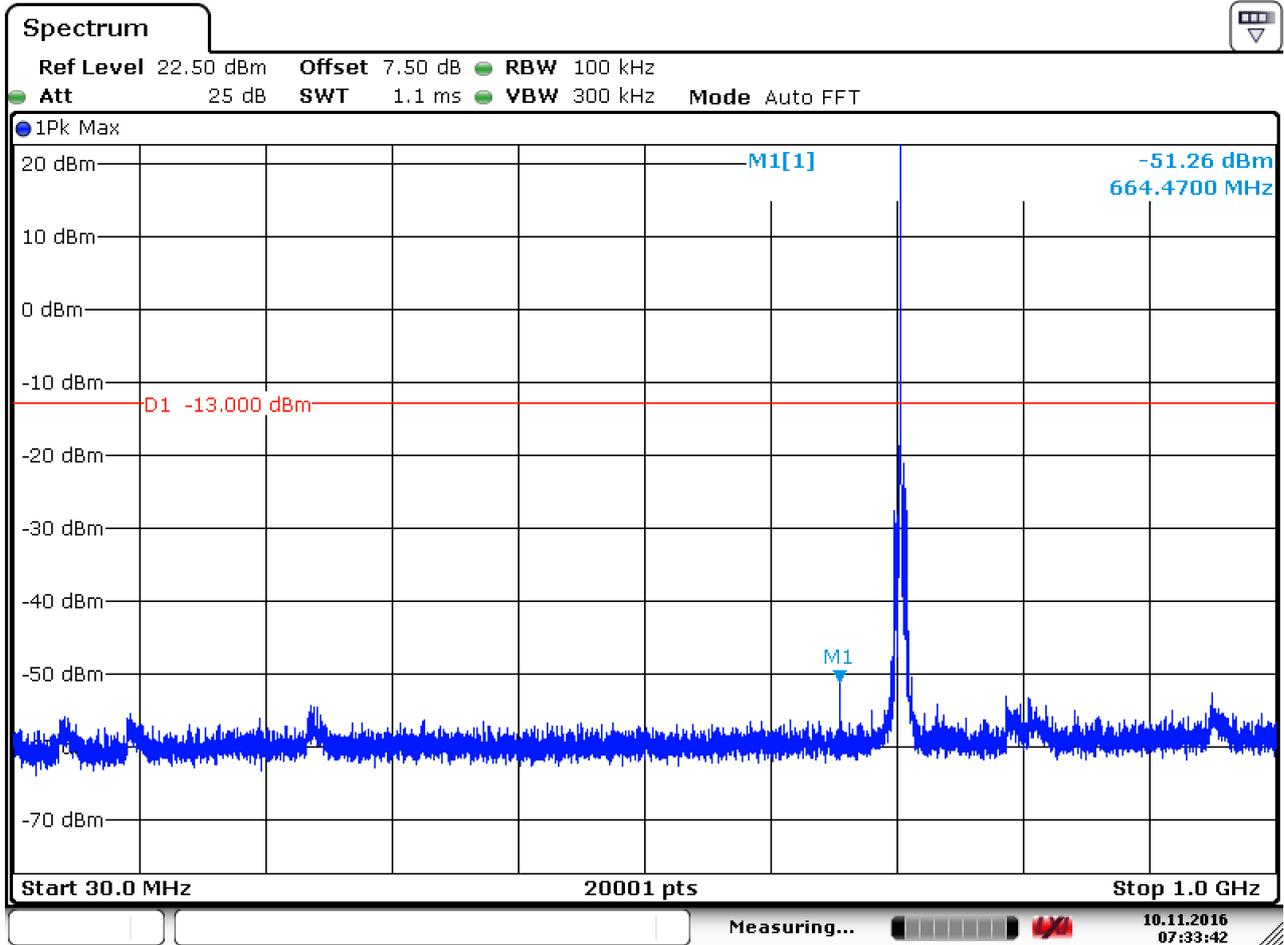


Date: 10.NOV.2016 07:31:42

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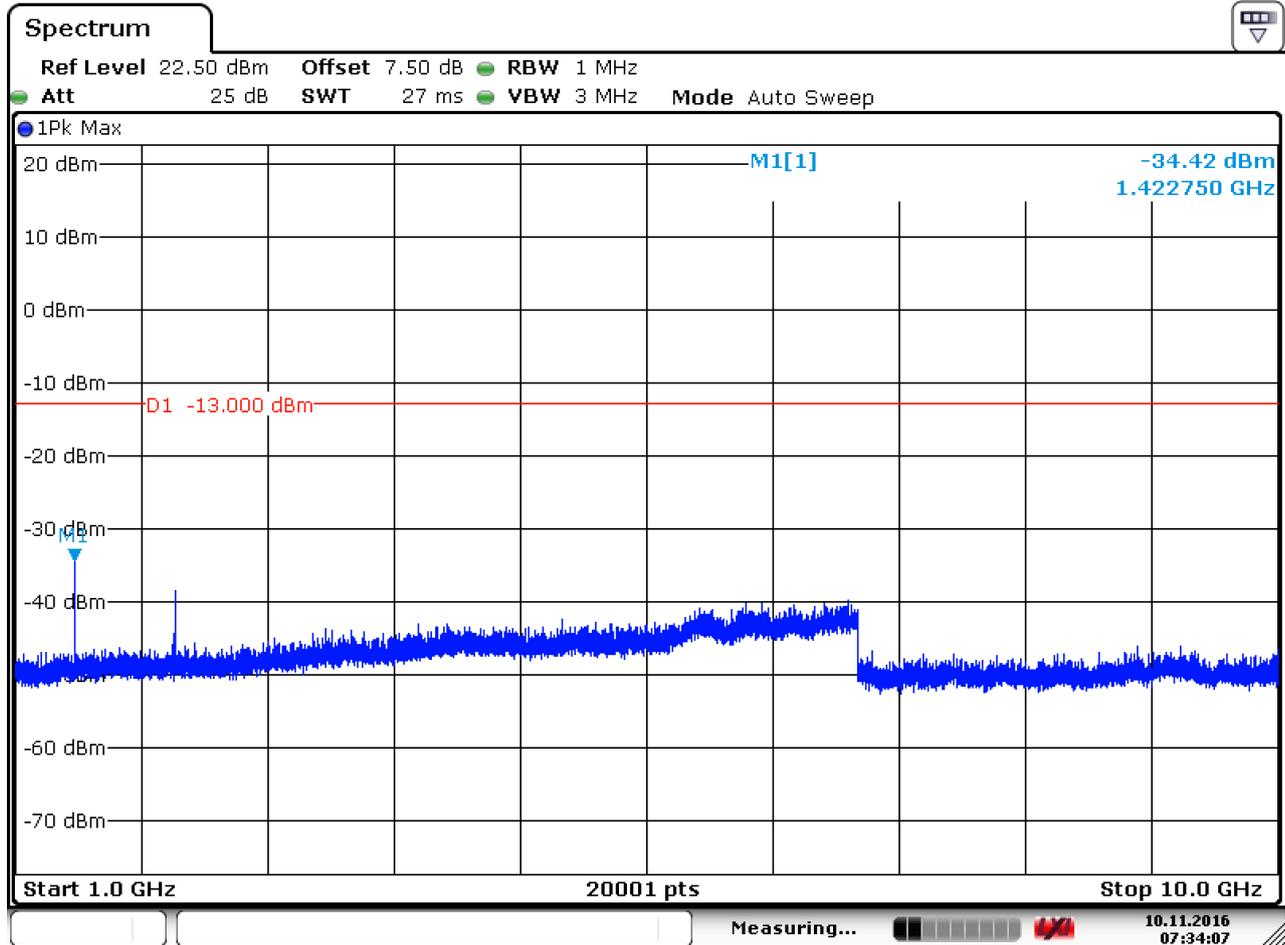


6.1.1.1.3 Test Channel = HCH



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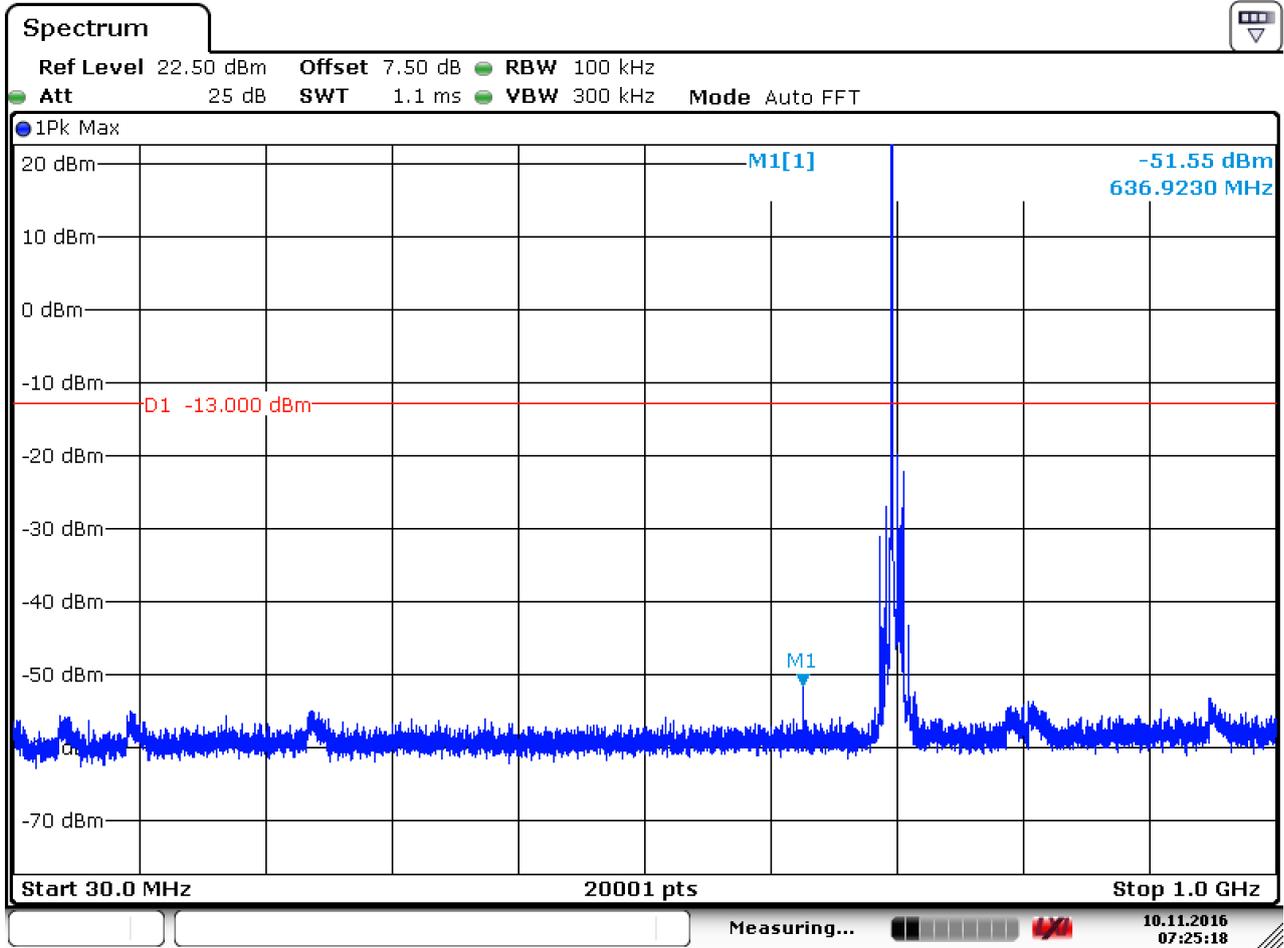
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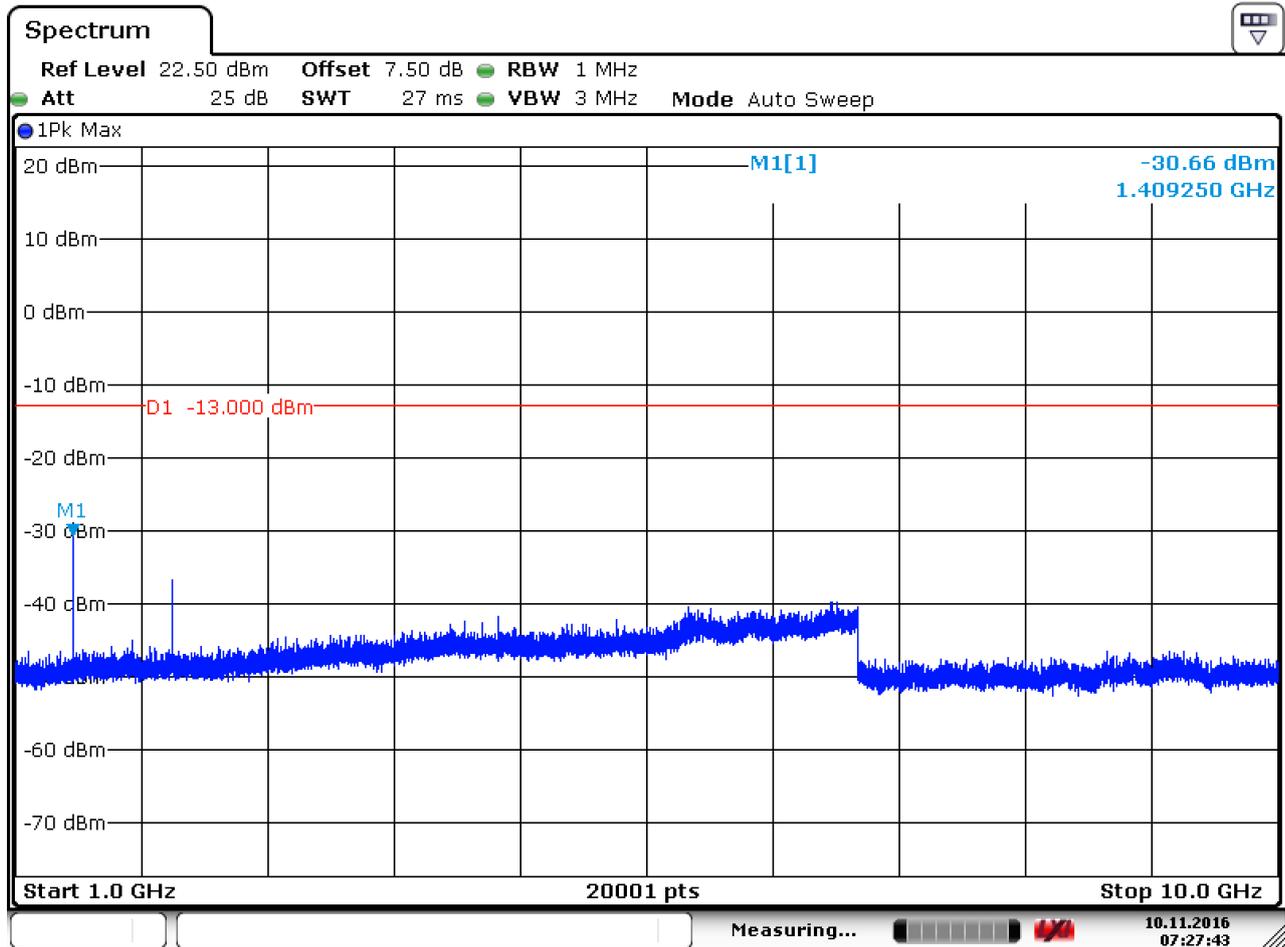


6.1.1.2 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.2.1 Test Channel = LCH



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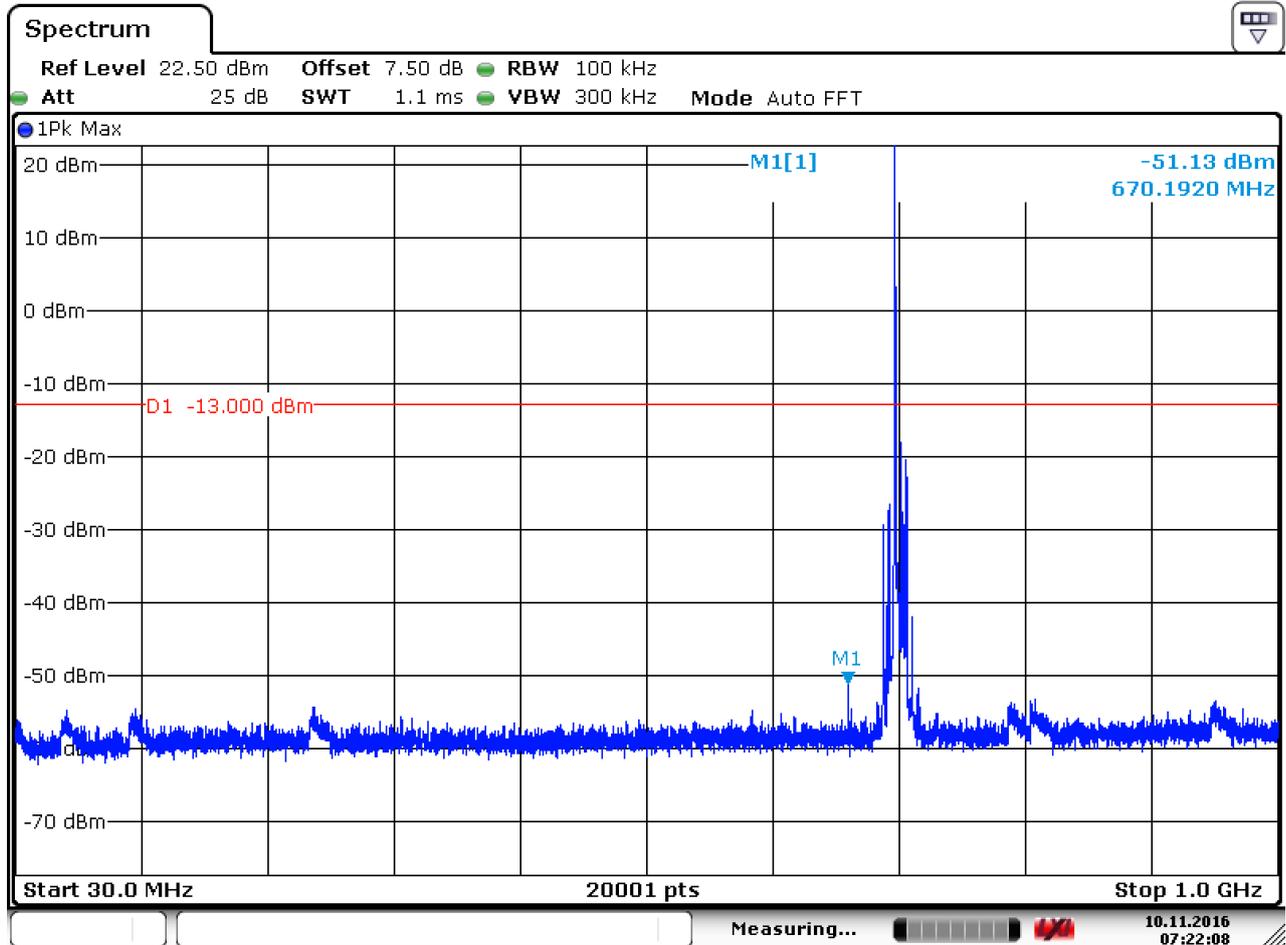


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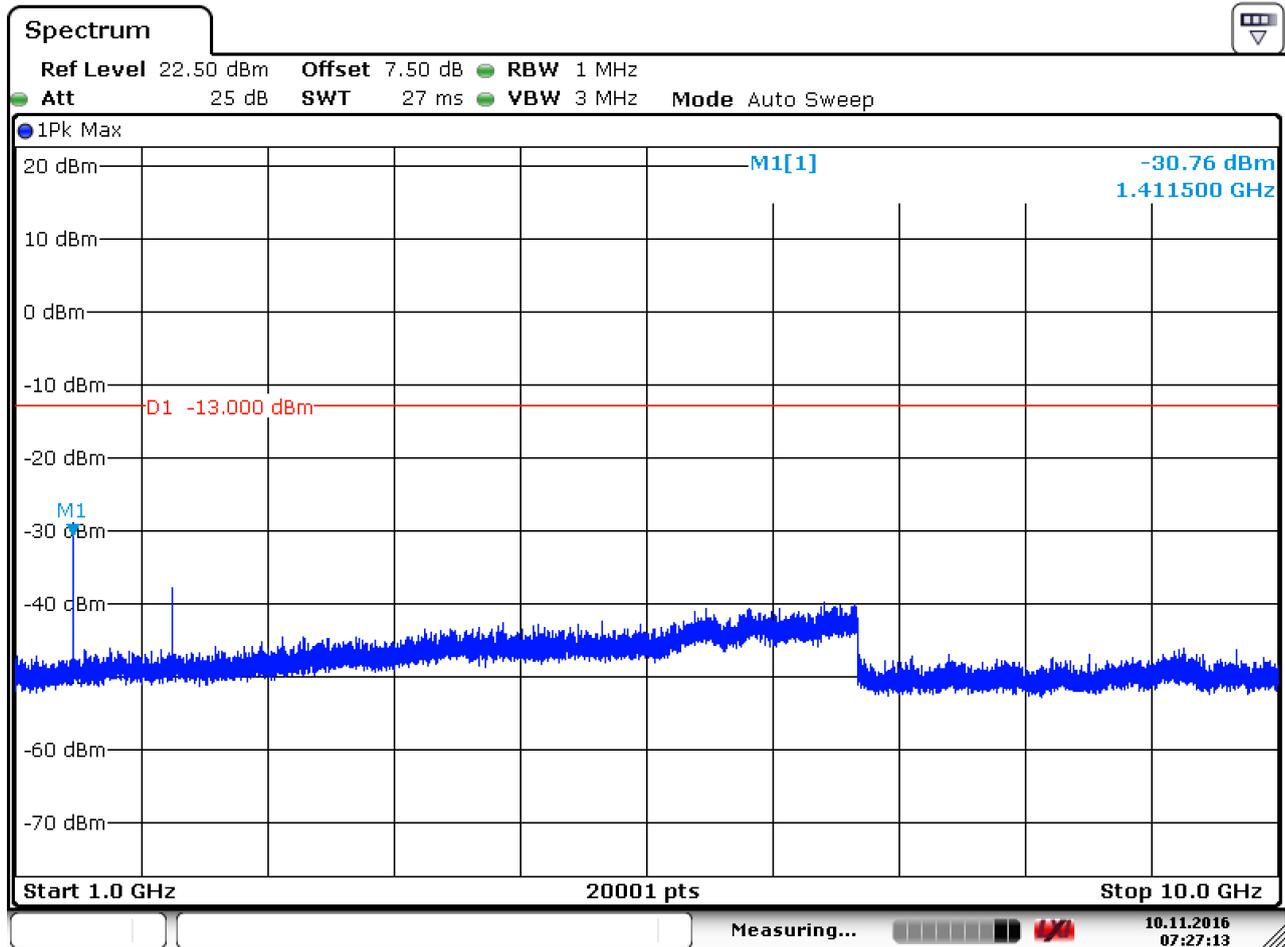


6.1.1.2.2 Test Channel = MCH



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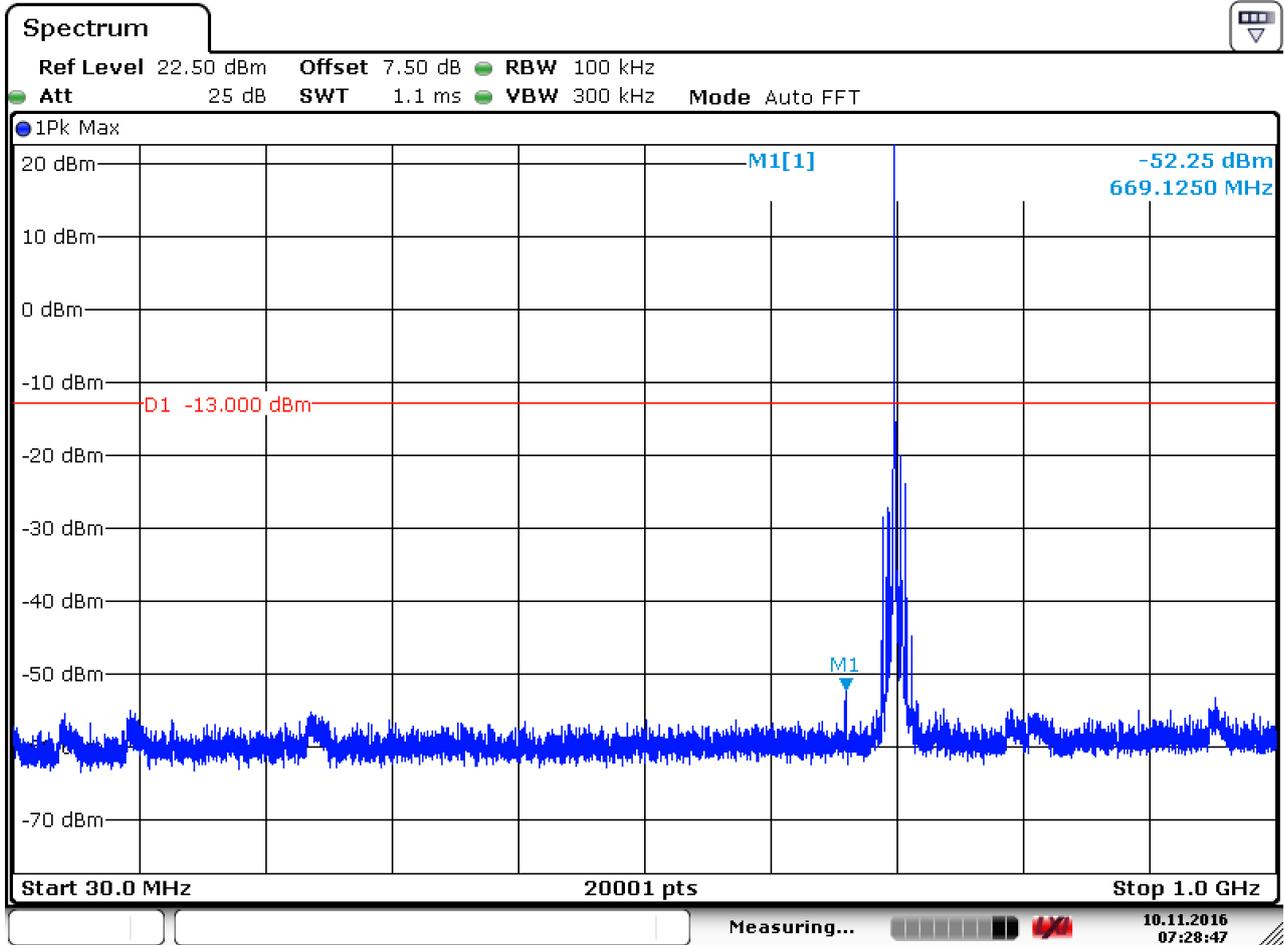


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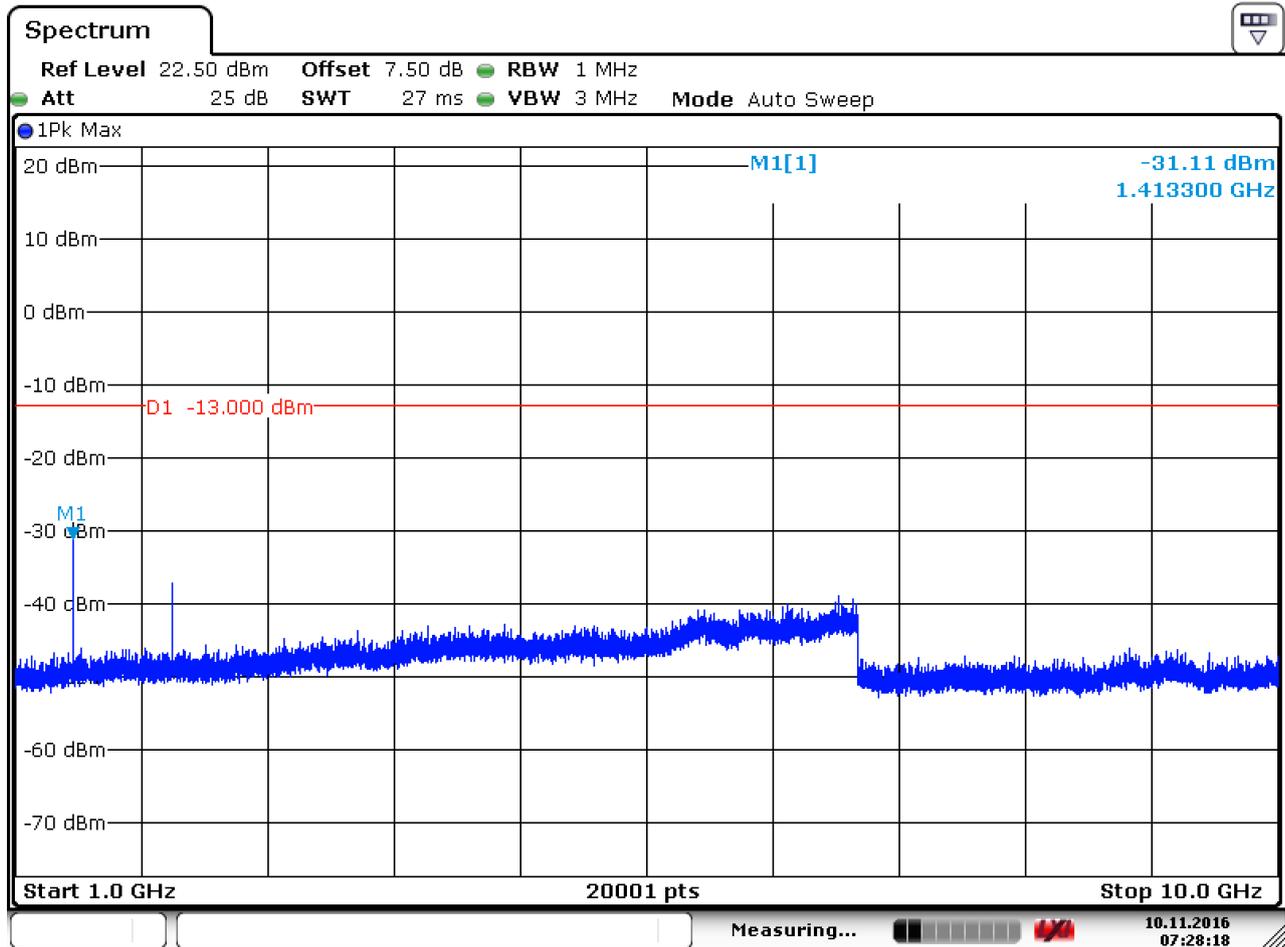


6.1.1.2.3 Test Channel = HCH



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7 Field Strength of Spurious Radiation

Part I - Test Plots

For LTE

7.1.1 Test Band = LTEband17

7.1.1.1 Test Mode = LTE/TM1 10M RB1#0

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
78.500	-92.14	-13.00	-79.14	Vertical
156.000	-87.34	-13.00	-74.34	Vertical
247.500	-86.47	-13.00	-73.47	Vertical
354.500	-77.29	-13.00	-64.29	Vertical
445.000	-83.46	-13.00	-70.46	Vertical
535.500	-67.23	-13.00	-54.23	Vertical
1199.000	-66.39	-13.00	-53.39	Vertical
1694.000	-64.59	-13.00	-51.59	Vertical
2744.000	-57.76	-13.00	-44.76	Vertical
3956.000	-66.23	-13.00	-53.23	Vertical
7897.500	-64.52	-13.00	-51.52	Vertical
10437.000	-63.86	-13.00	-50.86	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-93.42	-13.00	-80.42	Horizontal
155.500	-89.36	-13.00	-76.36	Horizontal
228.000	-85.41	-13.00	-72.41	Horizontal
357.500	-83.74	-13.00	-70.74	Horizontal
473.000	-72.43	-13.00	-59.43	Horizontal
639.000	-75.20	-13.00	-62.20	Horizontal
1826.000	-63.33	-13.00	-50.33	Horizontal
2448.000	-59.03	-13.00	-46.03	Horizontal
3888.500	-66.45	-13.00	-53.45	Horizontal
5925.000	-67.15	-13.00	-54.15	Horizontal
7762.000	-65.12	-13.00	-52.12	Horizontal
10257.00	-63.74	-13.00	-50.74	Horizontal

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7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
75.000	-92.34	-13.00	-79.34	Vertical
187.500	-93.25	-13.00	-80.25	Vertical
316.000	-87.66	-13.00	-74.66	Vertical
375.000	-86.13	-13.00	-73.13	Vertical
447.000	-81.85	-13.00	-68.85	Vertical
593.000	-77.69	-13.00	-64.69	Vertical
1221.000	-66.49	-13.00	-53.49	Vertical
1760.000	-64.20	-13.00	-51.20	Vertical
3142.500	-69.42	-13.00	-56.42	Vertical
5535.000	-67.19	-13.00	-54.19	Vertical
7852.000	-66.42	-13.00	-53.42	Vertical
10550.000	-64.22	-13.00	-51.22	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
75.000	-92.53	-13.00	-79.53	Horizontal
149.500	-89.25	-13.00	-76.25	Horizontal
289.500	-86.85	-13.00	-73.85	Horizontal
402.000	-87.22	-13.00	-74.22	Horizontal
475.000	-81.36	-13.00	-68.36	Horizontal
764.500	-66.34	-13.00	-53.34	Horizontal
1364.000	-67.94	-13.00	-54.94	Horizontal
1914.000	-63.48	-13.00	-50.48	Horizontal
4852.500	-67.17	-13.00	-54.17	Horizontal
7947.500	-67.62	-13.00	-54.62	Horizontal
8734.000	-64.77	-13.00	-51.77	Horizontal
11893.000	-63.85	-13.00	-50.85	Horizontal

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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-89.34	-13.00	-76.34	Vertical
171.500	-92.57	-13.00	-79.57	Vertical
263.500	-89.51	-13.00	-76.51	Vertical
380.500	-86.37	-13.00	-73.37	Vertical
479.500	-81.67	-13.00	-68.67	Vertical
632.000	-79.13	-13.00	-66.13	Vertical
1199.000	-66.39	-13.00	-53.39	Vertical
2272.000	-59.33	-13.00	-46.33	Vertical
3712.000	-67.26	-13.00	-54.26	Vertical
4852.500	-67.50	-13.00	-54.50	Vertical
7365.000	-65.43	-13.00	-52.43	Vertical
10492.000	-64.26	-13.00	-51.26	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
76.000	-89.34	-13.00	-76.34	Horizontal
147.500	-92.57	-13.00	-79.57	Horizontal
226.500	-89.51	-13.00	-76.51	Horizontal
346.500	-86.37	-13.00	-73.37	Horizontal
482.000	-81.67	-13.00	-68.67	Horizontal
613.000	-79.13	-13.00	-66.13	Horizontal
1210.000	-66.39	-13.00	-53.39	Horizontal
3975.000	-59.33	-13.00	-46.33	Horizontal
4716.500	-67.26	-13.00	-54.26	Horizontal
5340.000	-67.50	-13.00	-54.50	Horizontal
7818.000	-65.43	-13.00	-52.43	Horizontal
10170.000	-64.26	-13.00	-51.26	Horizontal

NOTE:

- 1) 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 band17	LTE/TM1 10MHz	LCH	TN	VL	0.54	0.00076	PASS
				VN	-1.45	-0.00205	PASS
				VH	1.54	0.00217	PASS
		MCH	TN	VL	3.84	0.00541	PASS
				VN	-1.65	-0.00232	PASS
				VH	-6.25	-0.00880	PASS
		HCH	TN	VL	-4.54	-0.00639	PASS
				VN	-2.76	-0.00388	PASS
				VH	2.33	0.00328	PASS
	LTE /TM2 10MHz	LCH	TN	VL	-3.55	-0.00501	PASS
				VN	-1.28	-0.00181	PASS
				VH	-3.56	-0.00502	PASS
		MCH	TN	VL	-2.84	-0.00400	PASS
				VN	-5.23	-0.00737	PASS
				VH	-7.48	-0.01054	PASS
		HCH	TN	VL	1.20	0.00169	PASS
				VN	-7.45	-0.01048	PASS
				VH	-7.18	-0.01010	PASS
	LTE /TM3 10MHz	LCH	TN	VL	-2.06	-0.00291	PASS
				VN	-3.15	-0.00444	PASS
				VH	-5.40	-0.00762	PASS
		MCH	TN	VL	-2.23	-0.00314	PASS
				VN	-1.35	-0.00190	PASS
				VH	-4.65	-0.00655	PASS
		HCH	TN	VL	-4.02	-0.00565	PASS
				VN	-3.36	-0.00473	PASS
				VH	2.09	0.00294	PASS



8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band17	LTE/TM1 10MHz	LCH	VN	-30	-6.03	-0.00994	PASS
				-20	-1.12	-0.00142	PASS
				-10	-2.69	-0.00238	PASS
				0	-3.21	-0.00456	PASS
				10	0.26	0.00172	PASS
				20	2.48	0.00350	PASS
				30	-4.51	0.00072	PASS
				40	1.34	0.00048	PASS
				50	-6.10	0.00860	PASS
		MCH	VN	-30	-2.25	-0.00030	PASS
				-20	2.95	0.00415	PASS
				-10	-0.75	-0.00106	PASS
				0	-2.55	-0.00286	PASS
				10	2.34	0.00055	PASS
				20	-1.15	-0.00162	PASS
				30	2.45	0.00413	PASS
				40	-4.67	-0.00658	PASS
				50	-8.32	-0.01038	PASS
		HCH	VN	-30	-1.32	0.00046	PASS
				-20	-4.06	0.00585	PASS
				-10	-0.64	-0.00094	PASS
				0	-1.53	-0.00173	PASS
				10	-3.86	-0.00121	PASS
				20	-1.01	-0.00158	PASS
				30	-0.36	-0.00184	PASS
				40	-4.31	-0.00592	PASS
				50	-5.37	-0.00868	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band17	LTE/TM2 10MHz	LCH	VN	-30	-7.45	-0.01051	PASS
				-20	-4.57	-0.00645	PASS
				-10	-6.11	-0.00862	PASS
				0	-3.15	-0.00444	PASS
				10	2.64	0.00372	PASS
				20	-4.01	-0.00566	PASS
				30	-2.34	-0.00330	PASS
				40	-5.26	-0.00742	PASS
				50	1.04	0.00147	PASS
		MCH	VN	-30	-5.41	-0.00762	PASS
				-20	-7.35	-0.01035	PASS
				-10	-1.13	-0.00159	PASS
				0	-0.65	-0.00092	PASS
				10	-2.32	-0.00327	PASS
				20	-5.48	-0.00772	PASS
				30	2.11	0.00297	PASS
				40	-5.25	-0.00739	PASS
				50	-8.32	-0.01172	PASS
		HCH	VN	-30	-6.32	-0.00889	PASS
				-20	-5.12	-0.00720	PASS
				-10	-3.62	-0.00509	PASS
				0	-3.54	-0.00498	PASS
				10	1.84	0.00259	PASS
				20	2.46	0.00346	PASS
				30	-3.43	-0.00482	PASS
				40	-4.59	-0.00646	PASS
				50	-5.20	-0.00731	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band17	LTE/TM3 10MHz	LCH	VN	-30	2.43	0.00343	PASS
				-20	2.67	0.00377	PASS
				-10	0.55	0.00078	PASS
				0	-2.48	-0.00350	PASS
				10	0.56	0.00079	PASS
				20	-3.80	-0.00536	PASS
				30	5.62	0.00793	PASS
				40	-7.04	-0.00993	PASS
				50	-8.15	-0.01150	PASS
		MCH	VN	-30	-3.80	-0.00535	PASS
				-20	-1.08	-0.00152	PASS
				-10	-0.39	-0.00055	PASS
				0	-3.66	-0.00515	PASS
				10	2.31	0.00325	PASS
				20	0.72	0.00101	PASS
				30	-4.61	-0.00649	PASS
				40	-6.13	-0.00863	PASS
				50	-5.35	-0.00754	PASS
		HCH	VN	-30	-4.43	-0.00623	PASS
				-20	0.68	0.00096	PASS
				-10	0.55	0.00077	PASS
				0	-2.52	-0.00354	PASS
				10	2.30	0.00323	PASS
				20	-4.78	-0.00672	PASS
				30	1.68	0.00236	PASS
				40	-0.63	-0.00089	PASS
				50	-4.60	-0.00647	PASS

The End

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