



Appendix B

Test Data for SZEM170300153901



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1 Effective (Isotropic) Radiated Power Output Data

Effective 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	23.43	22.93	38.45	PASS
				RB1#2	23.54	23.04	38.45	PASS
				RB1#5	23.44	22.94	38.45	PASS
				RB3#0	23.41	22.91	38.45	PASS
				RB3#2	23.71	23.21	38.45	PASS
				RB3#3	23.68	23.18	38.45	PASS
				RB6#0	22.65	22.15	38.45	PASS
			MCH	RB1#0	23.23	22.73	38.45	PASS
				RB1#2	23.25	22.75	38.45	PASS
				RB1#5	23.10	22.60	38.45	PASS
				RB3#0	23.51	23.01	38.45	PASS
				RB3#2	23.55	23.05	38.45	PASS
				RB3#3	23.56	23.06	38.45	PASS
				RB6#0	22.51	22.01	38.45	PASS
			HCH	RB1#0	23.66	23.16	38.45	PASS
				RB1#2	23.63	23.13	38.45	PASS
				RB1#5	23.47	22.97	38.45	PASS
				RB3#0	23.61	23.11	38.45	PASS
				RB3#2	23.56	23.06	38.45	PASS
				RB3#3	23.47	22.97	38.45	PASS
				RB6#0	22.63	22.13	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	21.75	21.25	38.45	PASS
				RB1#2	22.04	21.54	38.45	PASS
				RB1#5	22.18	21.68	38.45	PASS
				RB3#0	22.33	21.83	38.45	PASS
				RB3#2	22.87	22.37	38.45	PASS
				RB3#3	22.72	22.22	38.45	PASS
				RB6#0	21.49	20.99	38.45	PASS
			MCH	RB1#0	22.01	21.51	38.45	PASS
				RB1#2	21.79	21.29	38.45	PASS
				RB1#5	21.99	21.49	38.45	PASS
				RB3#0	22.44	21.94	38.45	PASS
				RB3#2	22.50	22.00	38.45	PASS
				RB3#3	22.30	21.80	38.45	PASS
				RB6#0	21.43	20.93	38.45	PASS
			HCH	RB1#0	22.51	22.01	38.45	PASS
				RB1#2	22.77	22.27	38.45	PASS
				RB1#5	22.02	21.52	38.45	PASS
				RB3#0	22.30	21.80	38.45	PASS
				RB3#2	22.58	22.08	38.45	PASS
				RB3#3	22.30	21.80	38.45	PASS
				RB6#0	21.49	20.99	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	23.43	22.93	38.45	PASS
				RB1#7	23.56	23.06	38.45	PASS
				RB1#14	23.72	23.22	38.45	PASS
				RB8#0	22.64	22.14	38.45	PASS
				RB8#4	22.60	22.10	38.45	PASS
				RB8#7	22.62	22.12	38.45	PASS
				RB15#0	22.59	22.09	38.45	PASS
			MCH	RB1#0	23.36	22.86	38.45	PASS
				RB1#7	23.40	22.90	38.45	PASS
				RB1#14	23.27	22.77	38.45	PASS
				RB8#0	22.52	22.02	38.45	PASS
				RB8#4	22.59	22.09	38.45	PASS
				RB8#7	22.60	22.10	38.45	PASS
				RB15#0	22.56	22.06	38.45	PASS
			HCH	RB1#0	23.43	22.93	38.45	PASS
				RB1#7	23.57	23.07	38.45	PASS
				RB1#14	23.28	22.78	38.45	PASS
				RB8#0	22.72	22.22	38.45	PASS
				RB8#4	22.71	22.21	38.45	PASS
				RB8#7	22.55	22.05	38.45	PASS
				RB15#0	22.68	22.18	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	22.17	21.67	38.45	PASS
				RB1#7	21.84	21.34	38.45	PASS
				RB1#14	21.91	21.41	38.45	PASS
				RB8#0	21.63	21.13	38.45	PASS
				RB8#4	21.58	21.08	38.45	PASS
				RB8#7	21.46	20.96	38.45	PASS
				RB15#0	21.26	20.76	38.45	PASS
			MCH	RB1#0	22.34	21.84	38.45	PASS
				RB1#7	22.39	21.89	38.45	PASS
				RB1#14	21.80	21.30	38.45	PASS
				RB8#0	21.36	20.86	38.45	PASS
				RB8#4	21.39	20.89	38.45	PASS
				RB8#7	21.66	21.16	38.45	PASS
				RB15#0	21.76	21.26	38.45	PASS
			HCH	RB1#0	22.61	22.11	38.45	PASS
				RB1#7	22.48	21.98	38.45	PASS
				RB1#14	22.19	21.69	38.45	PASS
				RB8#0	21.50	21.00	38.45	PASS
				RB8#4	21.65	21.15	38.45	PASS
				RB8#7	21.77	21.27	38.45	PASS
				RB15#0	21.81	21.31	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	23.58	23.08	38.45	PASS
				RB1#13	23.67	23.17	38.45	PASS
				RB1#24	23.57	23.07	38.45	PASS
				RB12#0	22.62	22.12	38.45	PASS
				RB12#6	22.64	22.14	38.45	PASS
				RB12#13	22.52	22.02	38.45	PASS
				RB25#0	22.59	22.09	38.45	PASS
			MCH	RB1#0	23.45	22.95	38.45	PASS
				RB1#13	23.47	22.97	38.45	PASS
				RB1#24	23.39	22.89	38.45	PASS
				RB12#0	22.52	22.02	38.45	PASS
				RB12#6	22.62	22.12	38.45	PASS
				RB12#13	22.55	22.05	38.45	PASS
				RB25#0	22.48	21.98	38.45	PASS
			HCH	RB1#0	23.44	22.94	38.45	PASS
				RB1#13	23.77	23.27	38.45	PASS
				RB1#24	23.31	22.81	38.45	PASS
				RB12#0	22.57	22.07	38.45	PASS
				RB12#6	22.52	22.02	38.45	PASS
				RB12#13	22.59	22.09	38.45	PASS
				RB25#0	22.64	22.14	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	5M	LCH	RB1#0	22.18	21.68	38.45	PASS
				RB1#13	22.52	22.02	38.45	PASS
				RB1#24	22.25	21.75	38.45	PASS
				RB12#0	21.30	20.80	38.45	PASS
				RB12#6	21.32	20.82	38.45	PASS
				RB12#13	21.29	20.79	38.45	PASS
				RB25#0	21.56	21.06	38.45	PASS
			MCH	RB1#0	21.76	21.26	38.45	PASS
				RB1#13	22.04	21.54	38.45	PASS
				RB1#24	21.43	20.93	38.45	PASS
				RB12#0	21.47	20.97	38.45	PASS
				RB12#6	21.67	21.17	38.45	PASS
				RB12#13	21.56	21.06	38.45	PASS
				RB25#0	21.52	21.02	38.45	PASS
			HCH	RB1#0	22.00	21.50	38.45	PASS
				RB1#13	22.13	21.63	38.45	PASS
				RB1#24	21.64	21.14	38.45	PASS
				RB12#0	21.26	20.76	38.45	PASS
				RB12#6	21.34	20.84	38.45	PASS
				RB12#13	21.32	20.82	38.45	PASS
				RB25#0	21.37	20.87	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	23.16	22.66	38.45	PASS
				RB1#25	23.53	23.03	38.45	PASS
				RB1#49	23.17	22.67	38.45	PASS
				RB25#0	22.55	22.05	38.45	PASS
				RB25#13	22.54	22.04	38.45	PASS
				RB25#25	22.44	21.94	38.45	PASS
				RB50#0	22.55	22.05	38.45	PASS
			MCH	RB1#0	23.32	22.82	38.45	PASS
				RB1#25	23.55	23.05	38.45	PASS
				RB1#49	23.12	22.62	38.45	PASS
				RB25#0	22.65	22.15	38.45	PASS
				RB25#13	22.55	22.05	38.45	PASS
				RB25#25	22.52	22.02	38.45	PASS
				RB50#0	22.69	22.19	38.45	PASS
			HCH	RB1#0	23.27	22.77	38.45	PASS
				RB1#25	23.31	22.81	38.45	PASS
				RB1#49	23.75	23.25	38.45	PASS
				RB25#0	22.53	22.03	38.45	PASS
				RB25#13	22.61	22.11	38.45	PASS
				RB25#25	22.61	22.11	38.45	PASS
				RB50#0	22.60	22.10	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	22.37	21.87	38.45	PASS
				RB1#25	22.70	22.20	38.45	PASS
				RB1#49	21.86	21.36	38.45	PASS
				RB25#0	21.51	21.01	38.45	PASS
				RB25#13	21.55	21.05	38.45	PASS
				RB25#25	21.49	20.99	38.45	PASS
				RB50#0	21.44	20.94	38.45	PASS
			MCH	RB1#0	22.21	21.71	38.45	PASS
				RB1#25	21.87	21.37	38.45	PASS
				RB1#49	22.13	21.63	38.45	PASS
				RB25#0	21.71	21.21	38.45	PASS
				RB25#13	21.59	21.09	38.45	PASS
				RB25#25	21.62	21.12	38.45	PASS
				RB50#0	21.68	21.18	38.45	PASS
			HCH	RB1#0	22.43	21.93	38.45	PASS
				RB1#25	22.72	22.22	38.45	PASS
				RB1#49	21.71	21.21	38.45	PASS
				RB25#0	21.51	21.01	38.45	PASS
				RB25#13	21.50	21.00	38.45	PASS
				RB25#25	21.62	21.12	38.45	PASS
				RB50#0	21.48	20.98	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	5.45	13	PASS
		MCH	5.13	13	PASS
		HCH	5.07	13	PASS
	TM2/10M	LCH	6.26	13	PASS
		MCH	6.03	13	PASS
		HCH	6.00	13	PASS



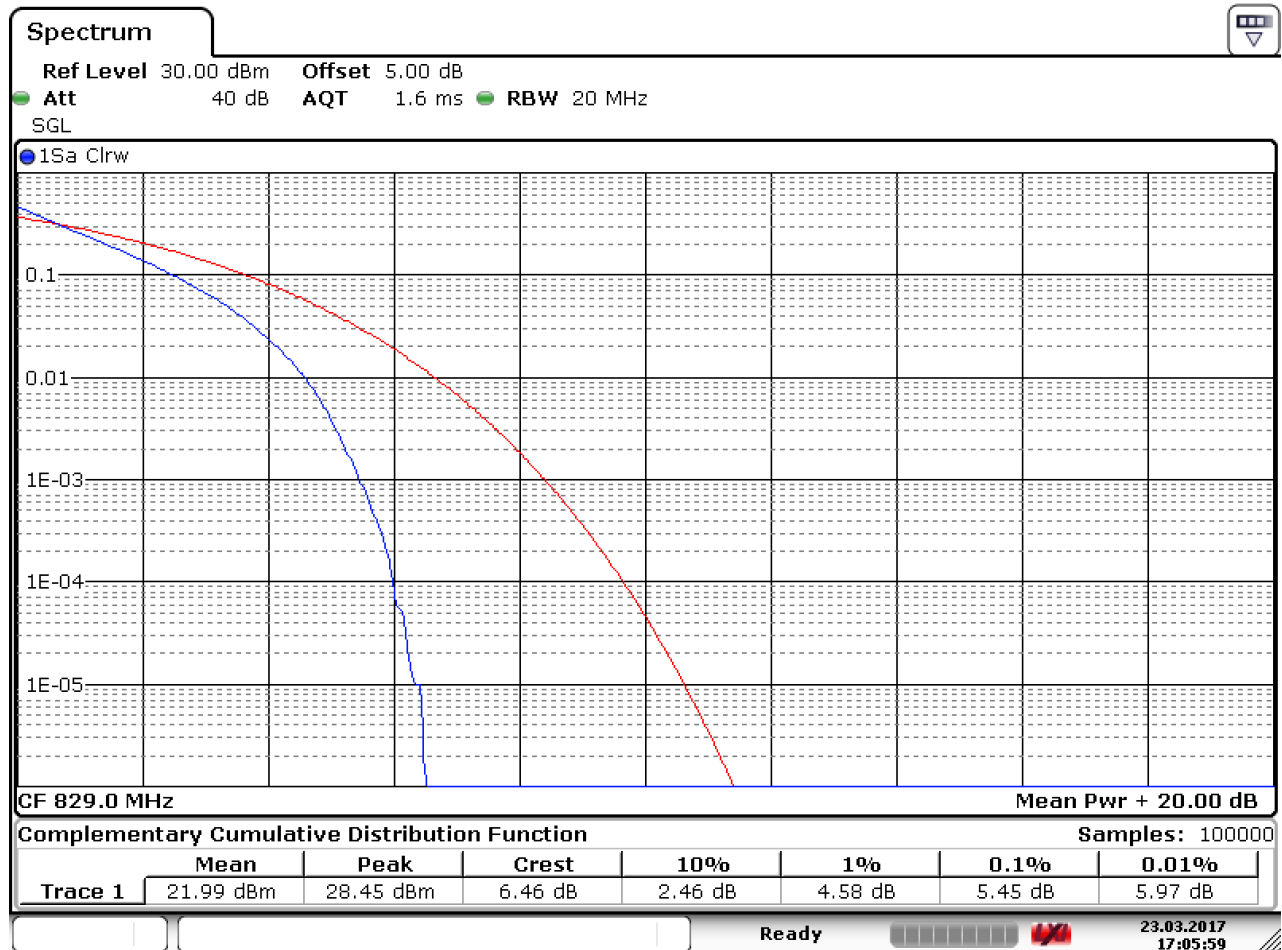
Part II - Test Plots

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

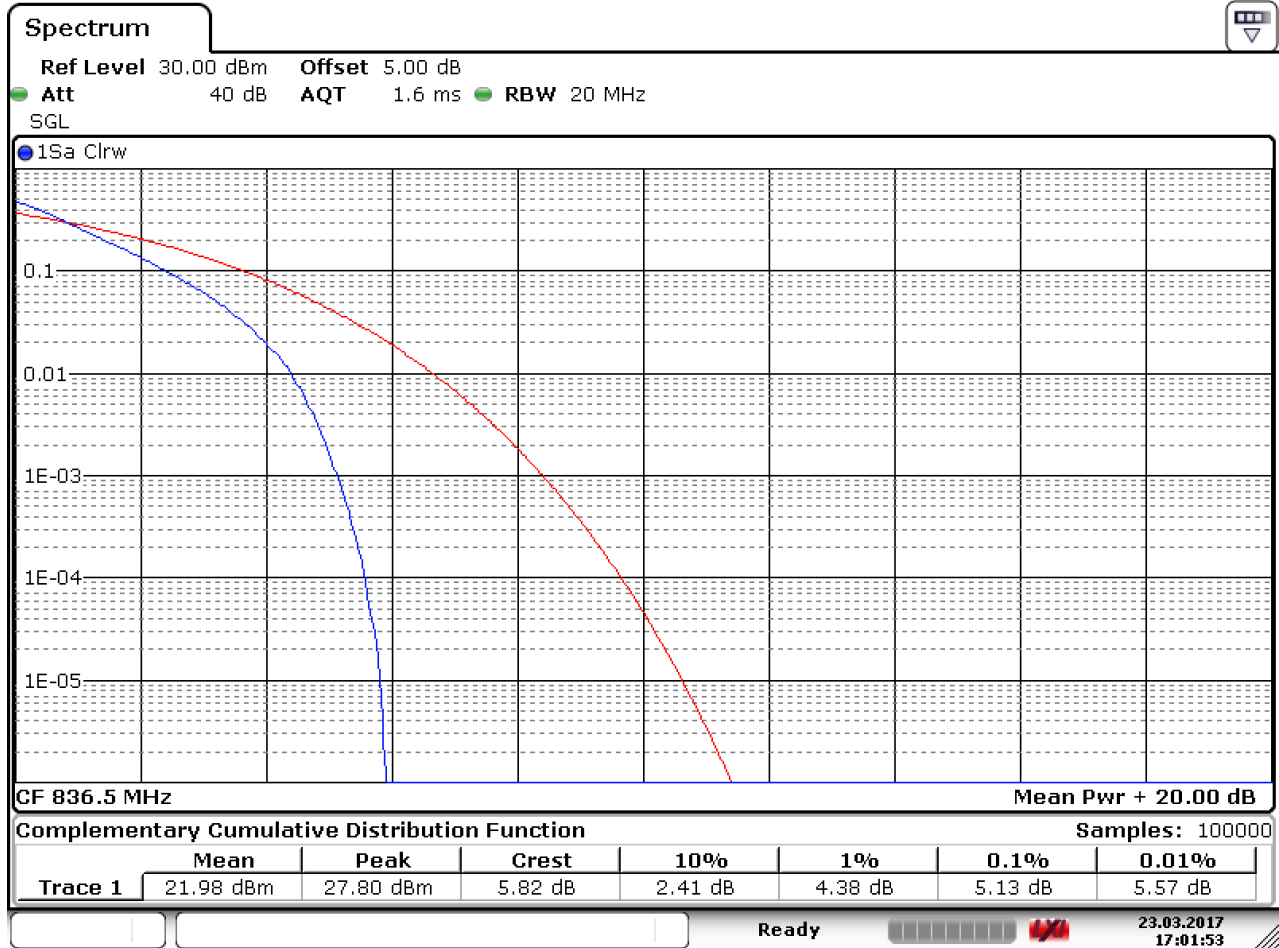


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2.1.1.1.2 Test Channel = MCH

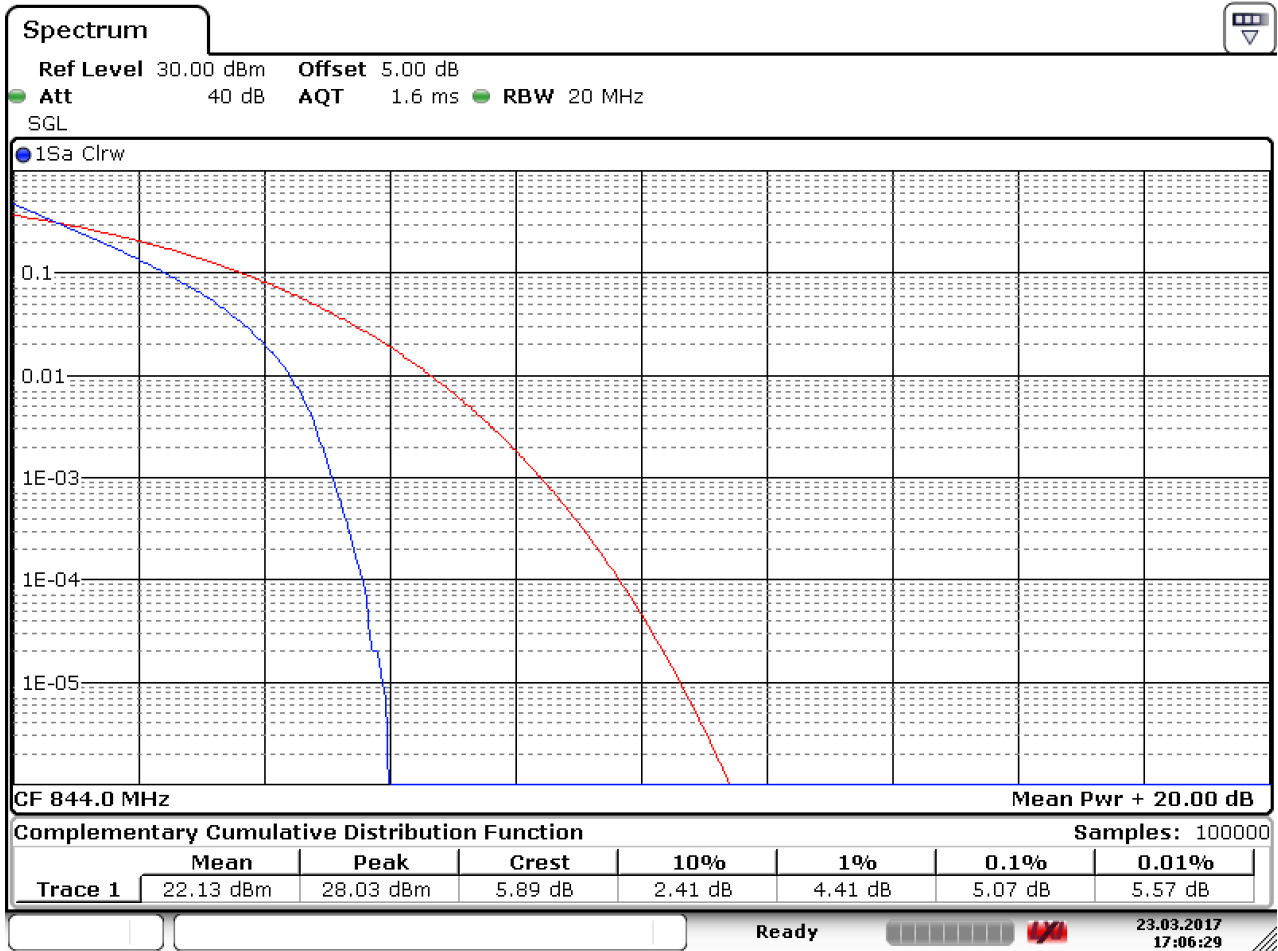


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2.1.1.1.3 Test Channel = HCH



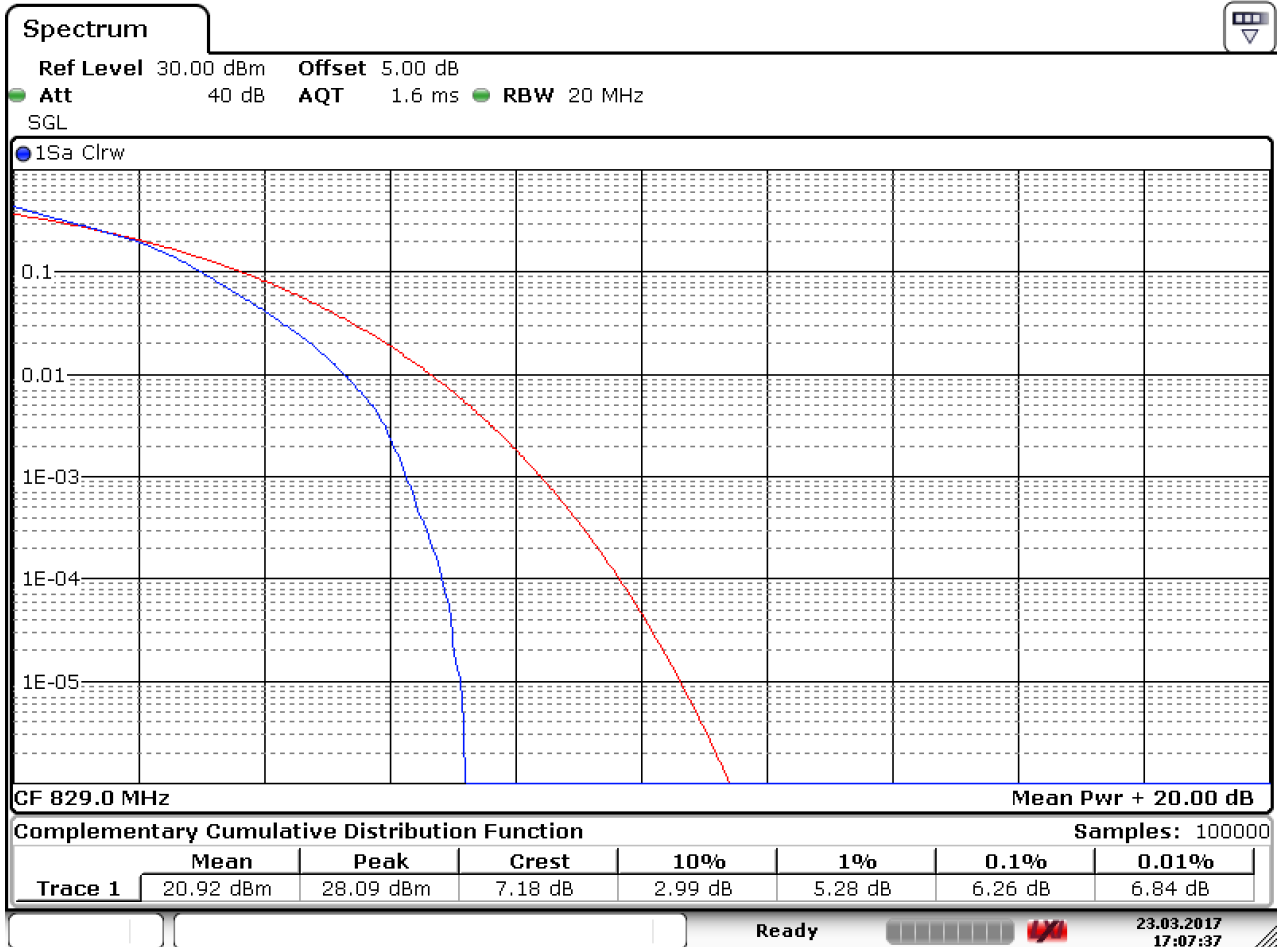
Date: 23.MAR.2017 17:06:29

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

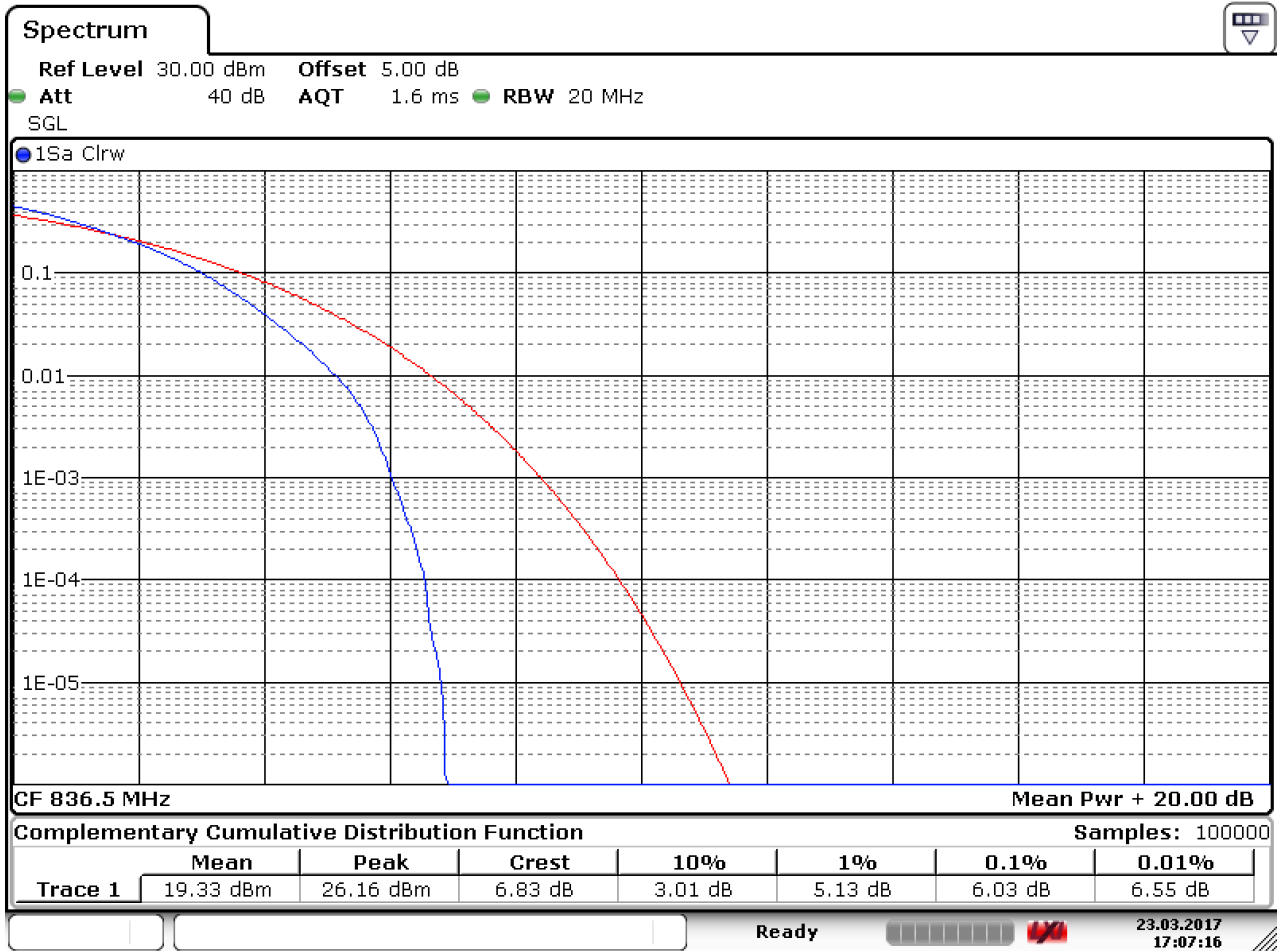
2.1.1.2.1 Test Channel = LCH



Date: 23.MAR.2017 17:07:38



2.1.1.2.2 Test Channel = MCH

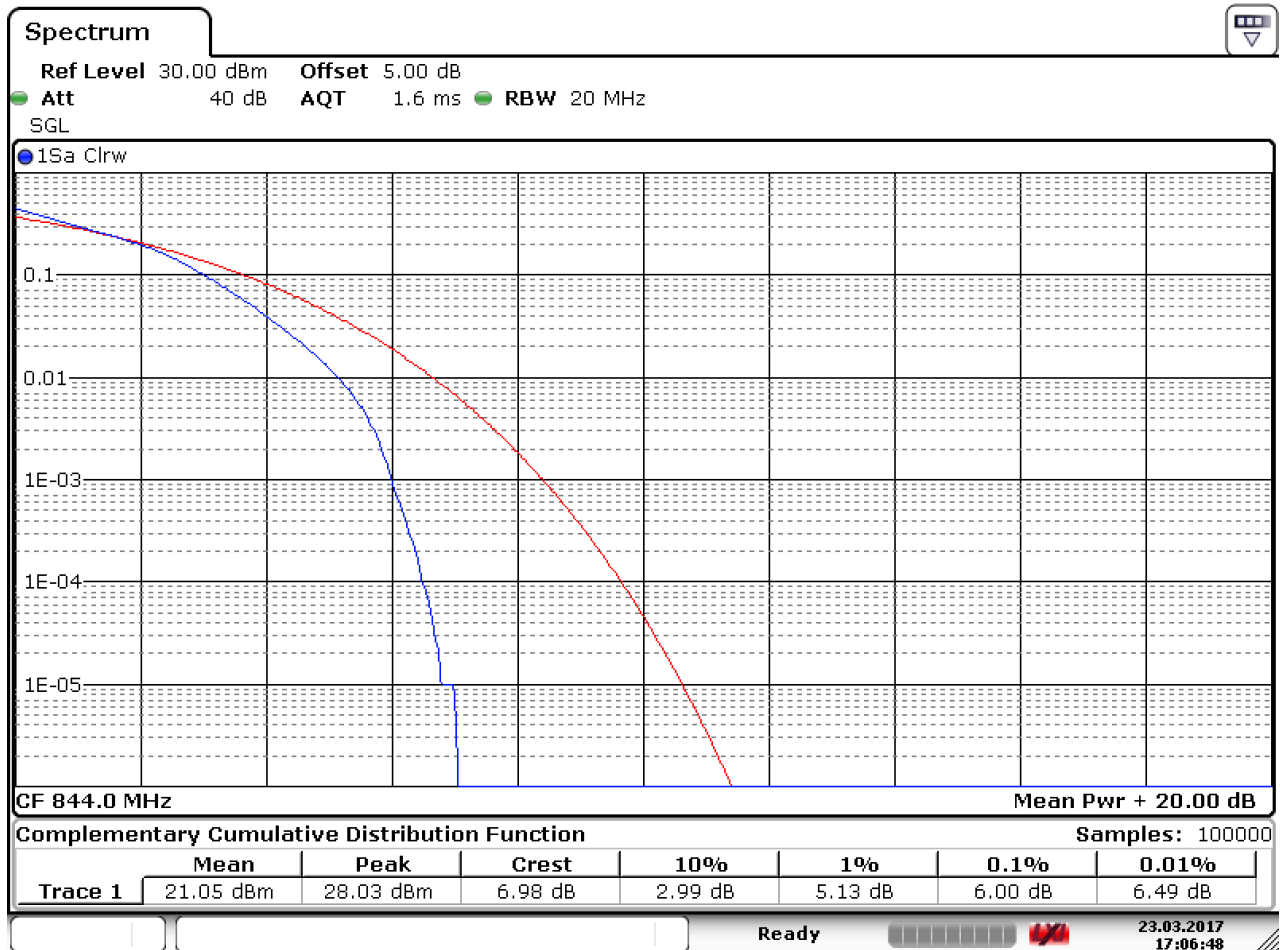


Date: 23.MAR.2017 17:07:17

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2.1.1.2.3 Test Channel = HCH



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3 Modulation Characteristics

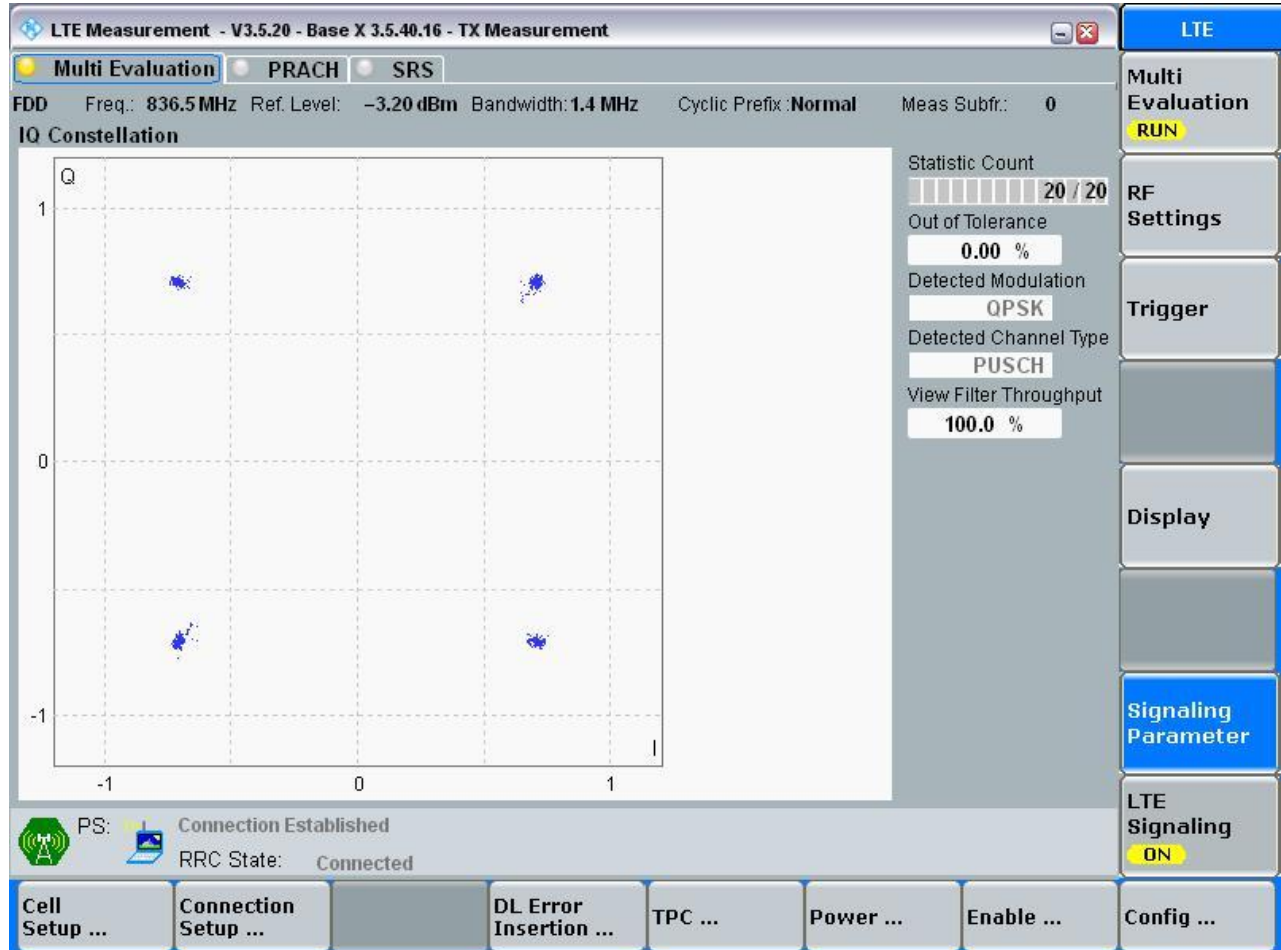
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE 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

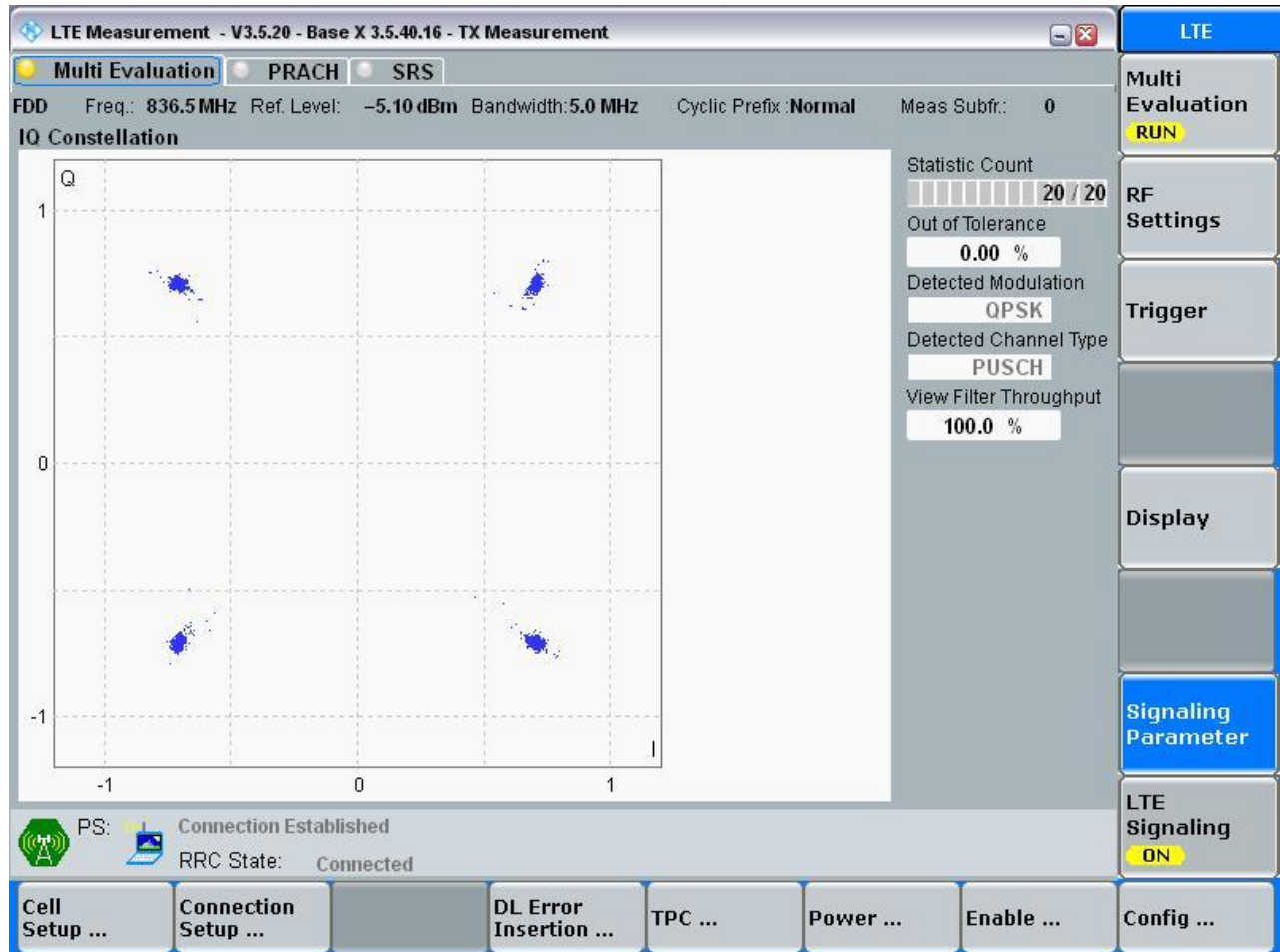
3.1.1.2.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement - V3.5.20 - Base X 3.5.40.16 - TX Measurement' window. The interface includes a top navigation bar with 'LTE' selected. Below this, there are tabs for 'Multi Evaluation', 'PRACH', and 'SRS'. The main display area is divided into two sections: 'IQ Constellation' on the left and a 'Statistic Count' panel on the right. The 'IQ Constellation' plot shows a 2D scatter plot with axes labeled 'Q' (vertical) and 'I' (horizontal), both ranging from -1 to 1. The plot displays four distinct clusters of blue data points, representing the four quadrants of a QPSK modulation scheme. The 'Statistic Count' panel on the right provides the following information: 'Statistic Count' is 20 / 20, 'Out of Tolerance' is 0.00 %, 'Detected Modulation' is QPSK, 'Detected Channel Type' is PUSCH, and 'View Filter Throughput' is 100.0 %. On the far right, there is a vertical toolbar with buttons for 'Multi Evaluation RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'. At the bottom of the window, a status bar shows 'PS: Connection Established' and 'RRC State: Connected'. Below the status bar is a row of configuration buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.



3.1.1.3 Test Mode = LTE /TM1 5MHz

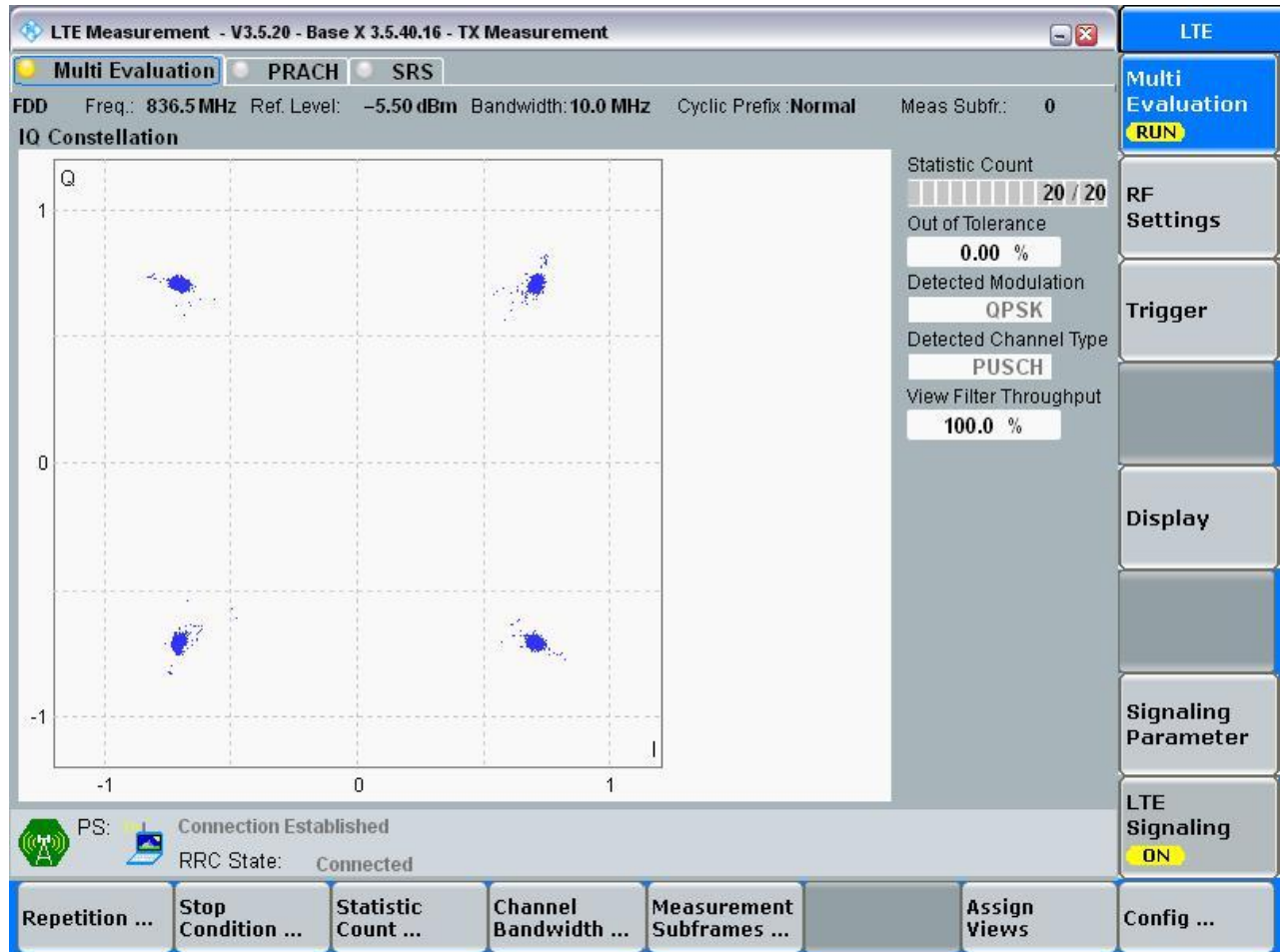
3.1.1.3.1 Test Channel = MCH





3.1.1.4 Test Mode = LTE /TM1 10MHz

3.1.1.4.1 Test Channel = MCH





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	1.32	PASS
		MCH	1.10	1.31	PASS
		HCH	1.10	1.29	PASS
	TM2/1.4MHz	LCH	1.10	1.29	PASS
		MCH	1.10	1.32	PASS
		HCH	1.10	1.30	PASS
	TM1/ 3MHz	LCH	2.69	2.93	PASS
		MCH	2.69	2.93	PASS
		HCH	2.69	2.94	PASS
	TM2/3MHz	LCH	2.68	2.93	PASS
		MCH	2.68	2.94	PASS
		HCH	2.69	2.93	PASS
	TM1/ 5MHz	LCH	4.49	4.94	PASS
		MCH	4.49	4.935	PASS
		HCH	4.47	4.93	PASS
	TM2/ 5MHz	LCH	4.49	4.95	PASS
		MCH	4.48	4.88	PASS
		HCH	4.49	4.95	PASS
	TM1/10MHz	LCH	8.93	9.73	PASS
		MCH	8.91	9.75	PASS
		HCH	8.93	9.75	PASS
	TM2/ 10MHz	LCH	8.93	9.73	PASS
		MCH	8.91	9.65	PASS
		HCH	8.93	9.73	PASS

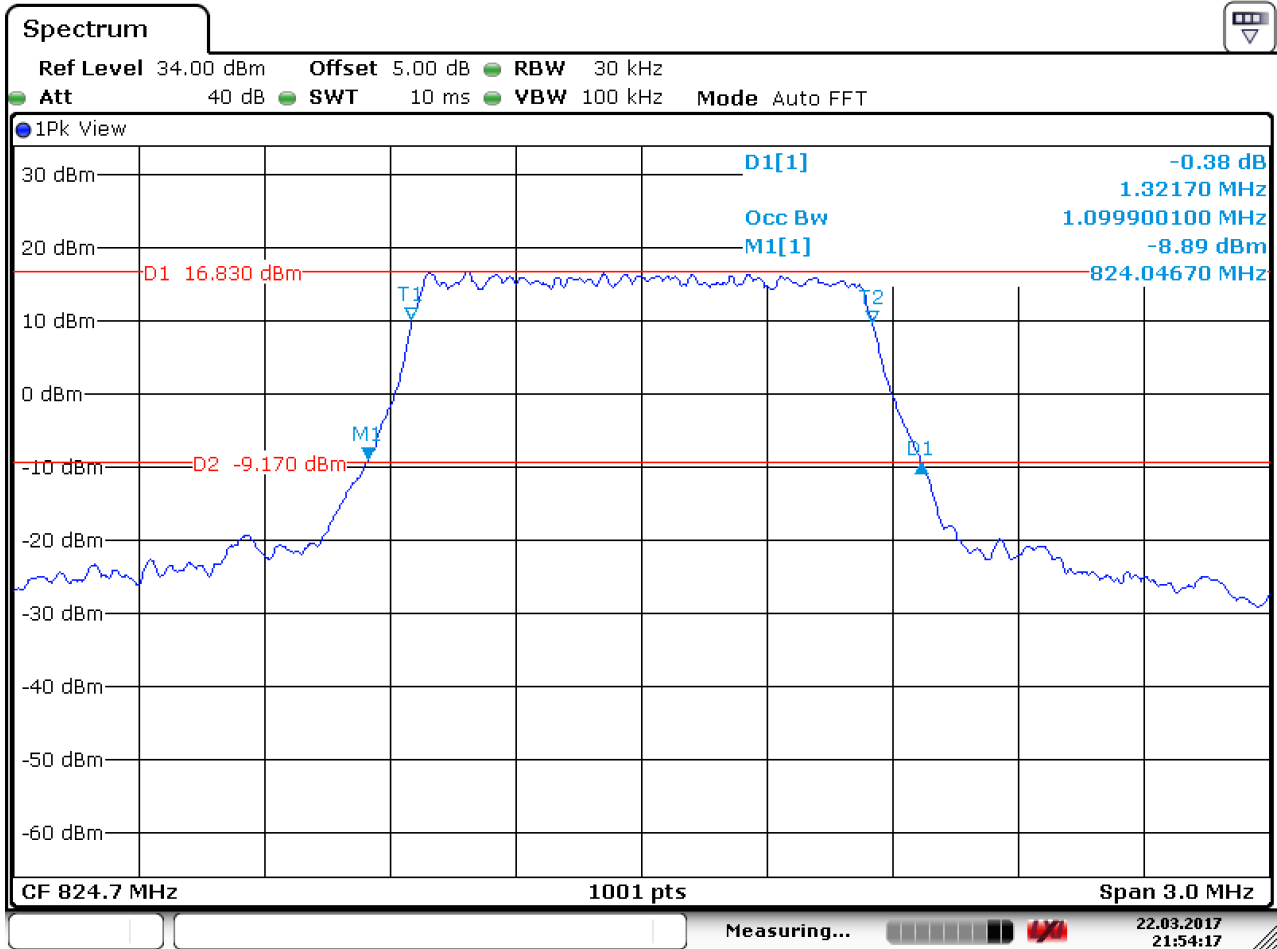
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4.1 For LTE

4.1.1 Test Band = LTE band5

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

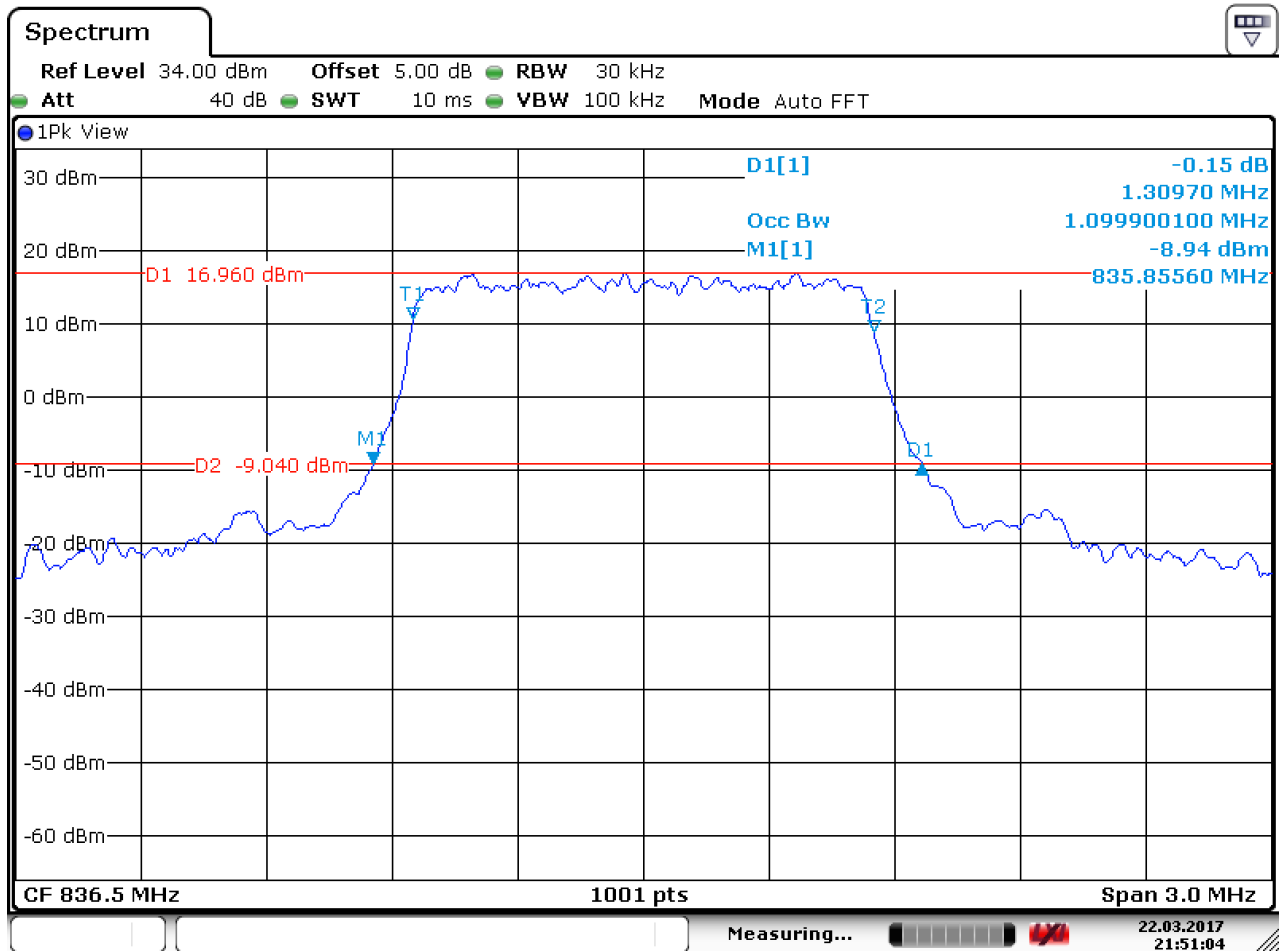
4.1.1.1.1 Test Channel = LCH



Date: 22.MAR.2017 21:54:17



4.1.1.1.2 Test Channel = MCH

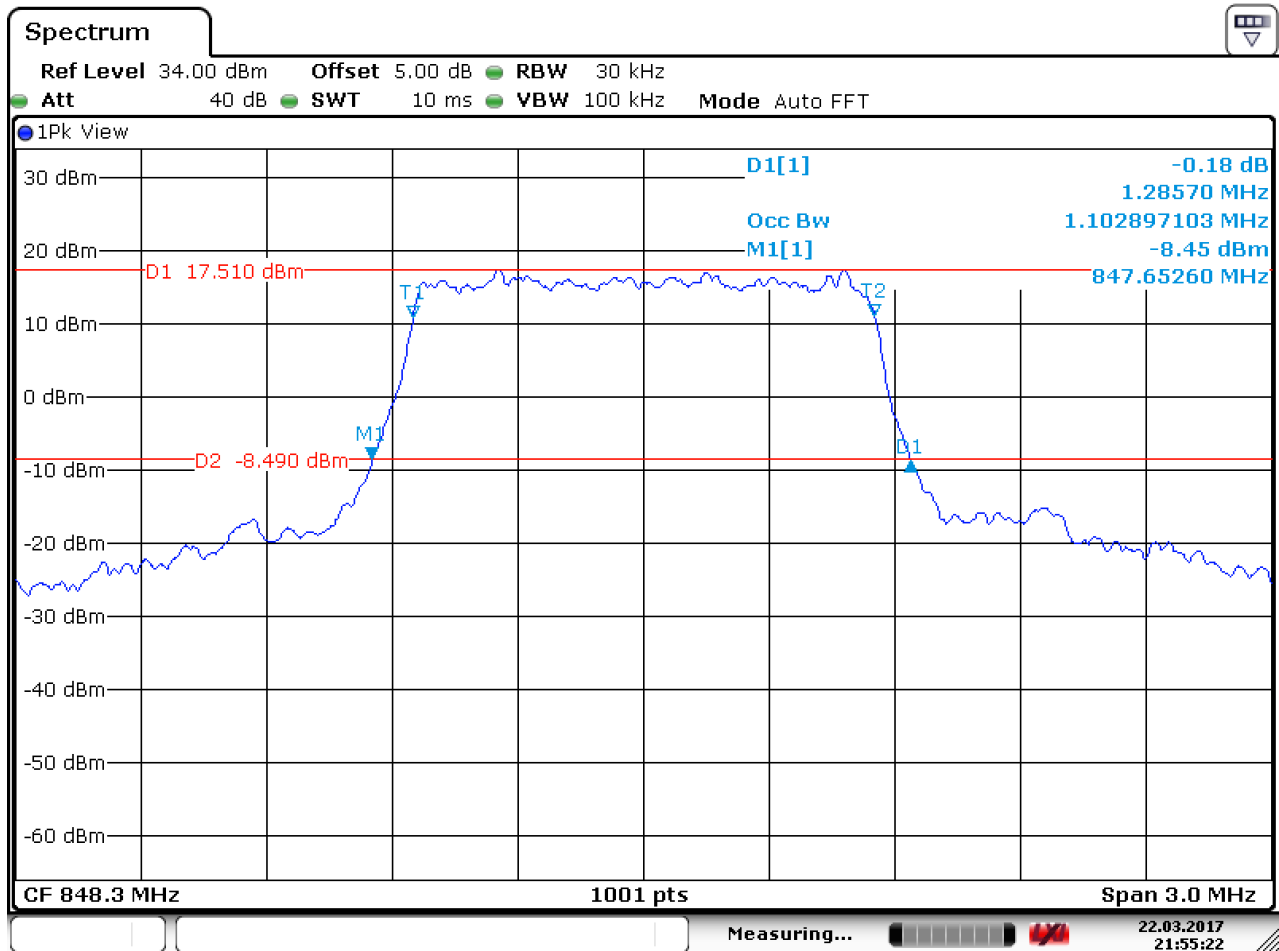


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4.1.1.1.3 Test Channel = HCH

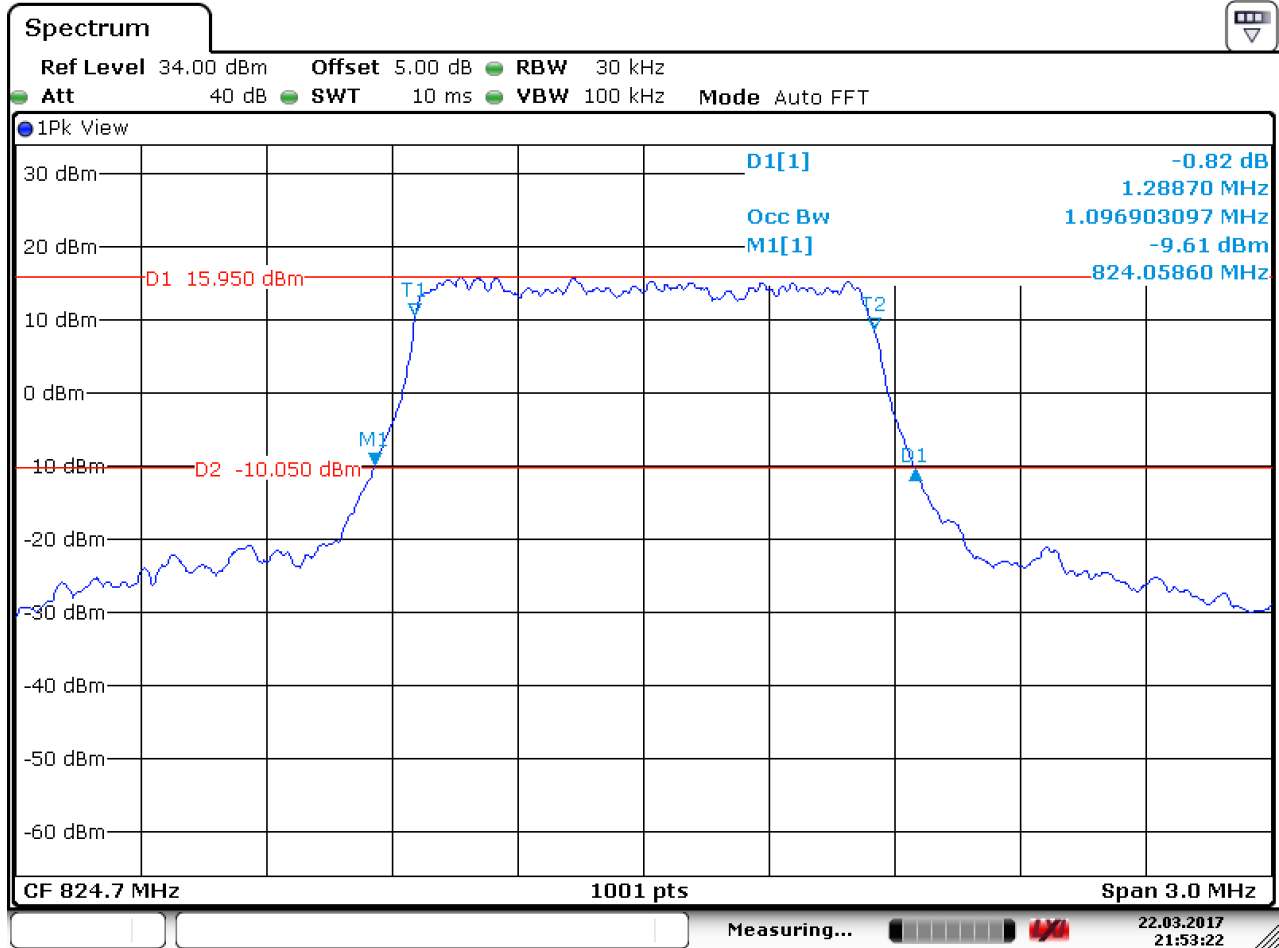


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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

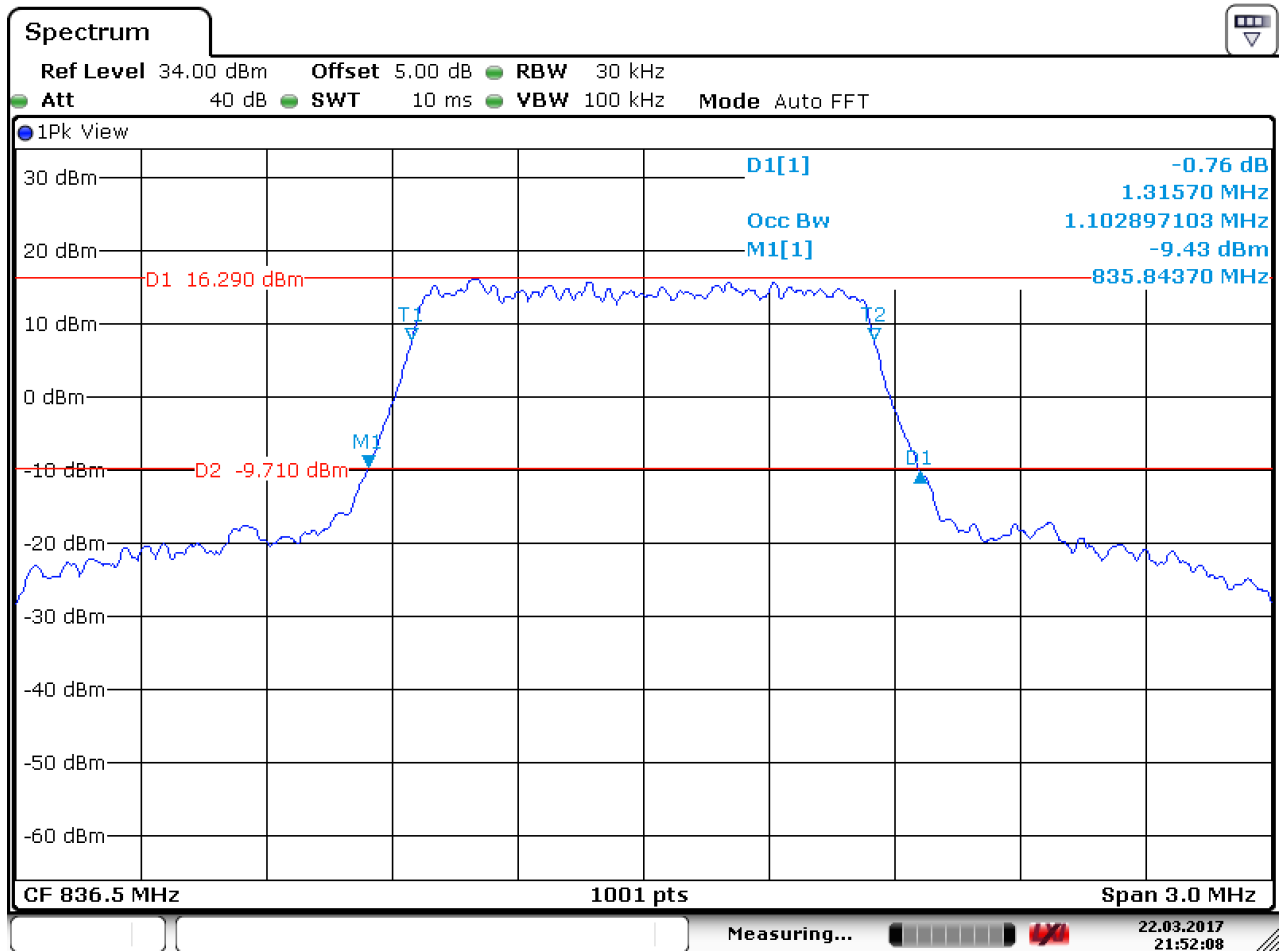
4.1.1.2.1 Test Channel = LCH



Date: 22.MAR.2017 21:53:22



4.1.1.2.2 Test Channel = MCH

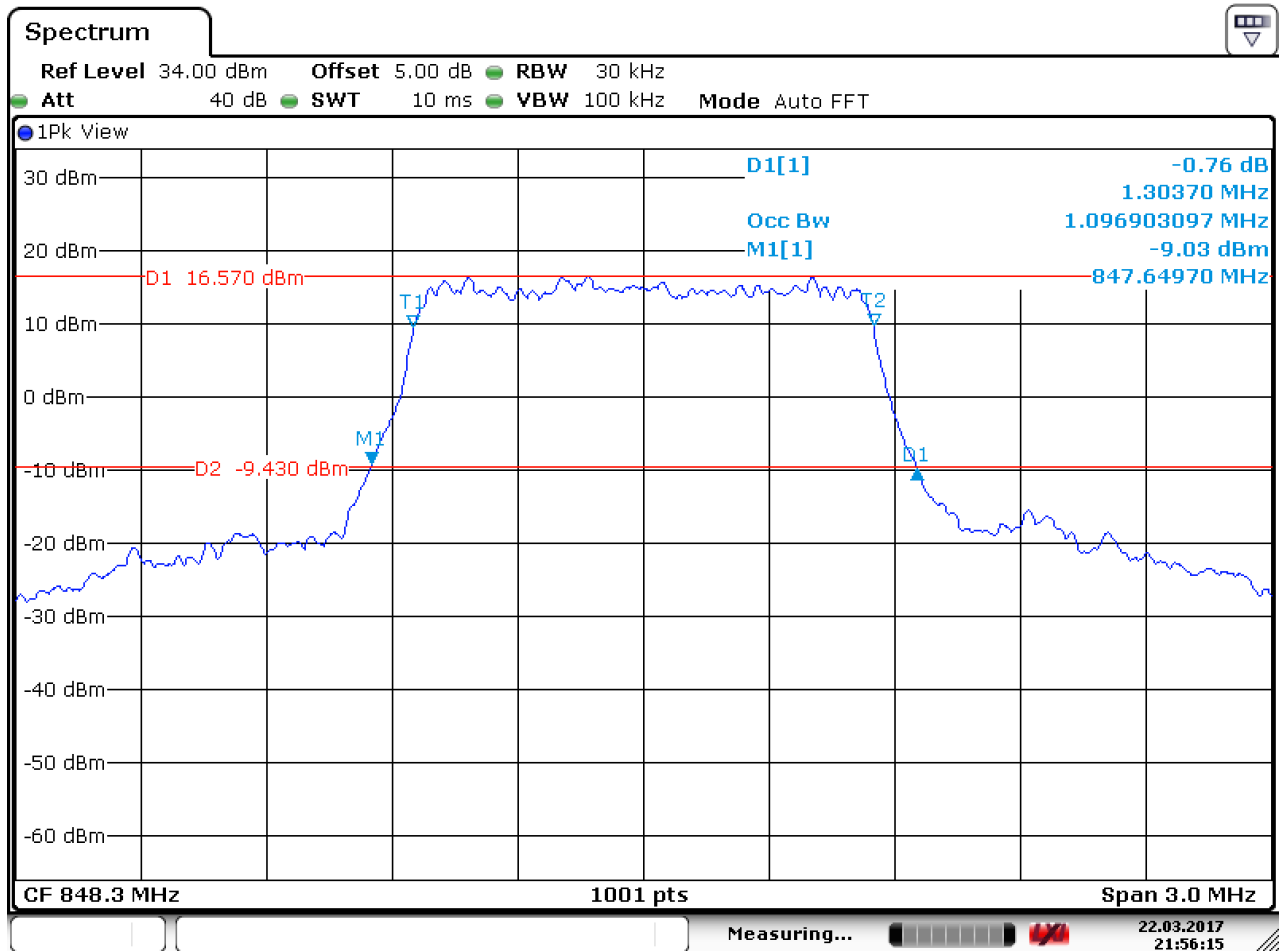


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4.1.1.2.3 Test Channel = HCH



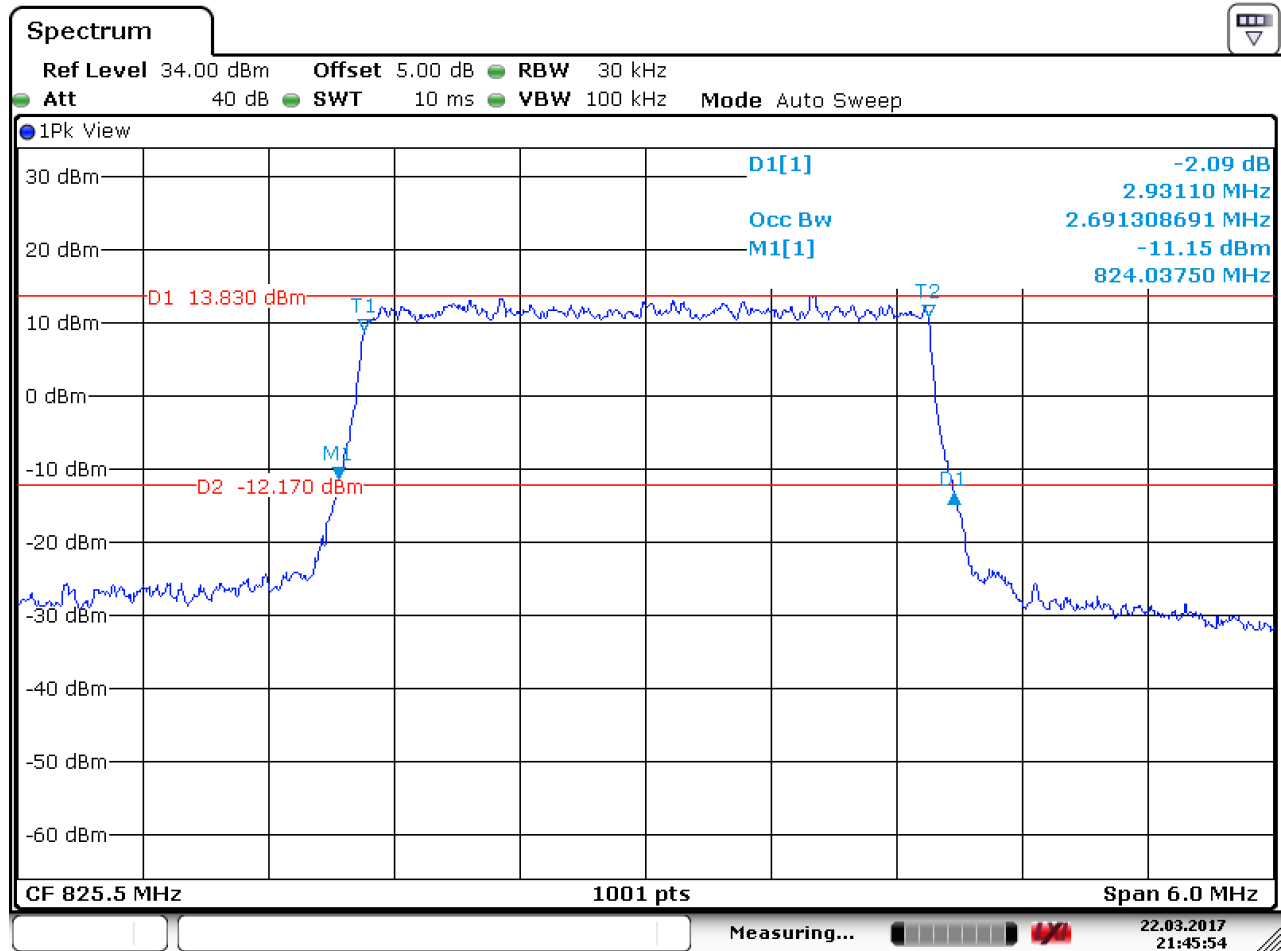
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4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH

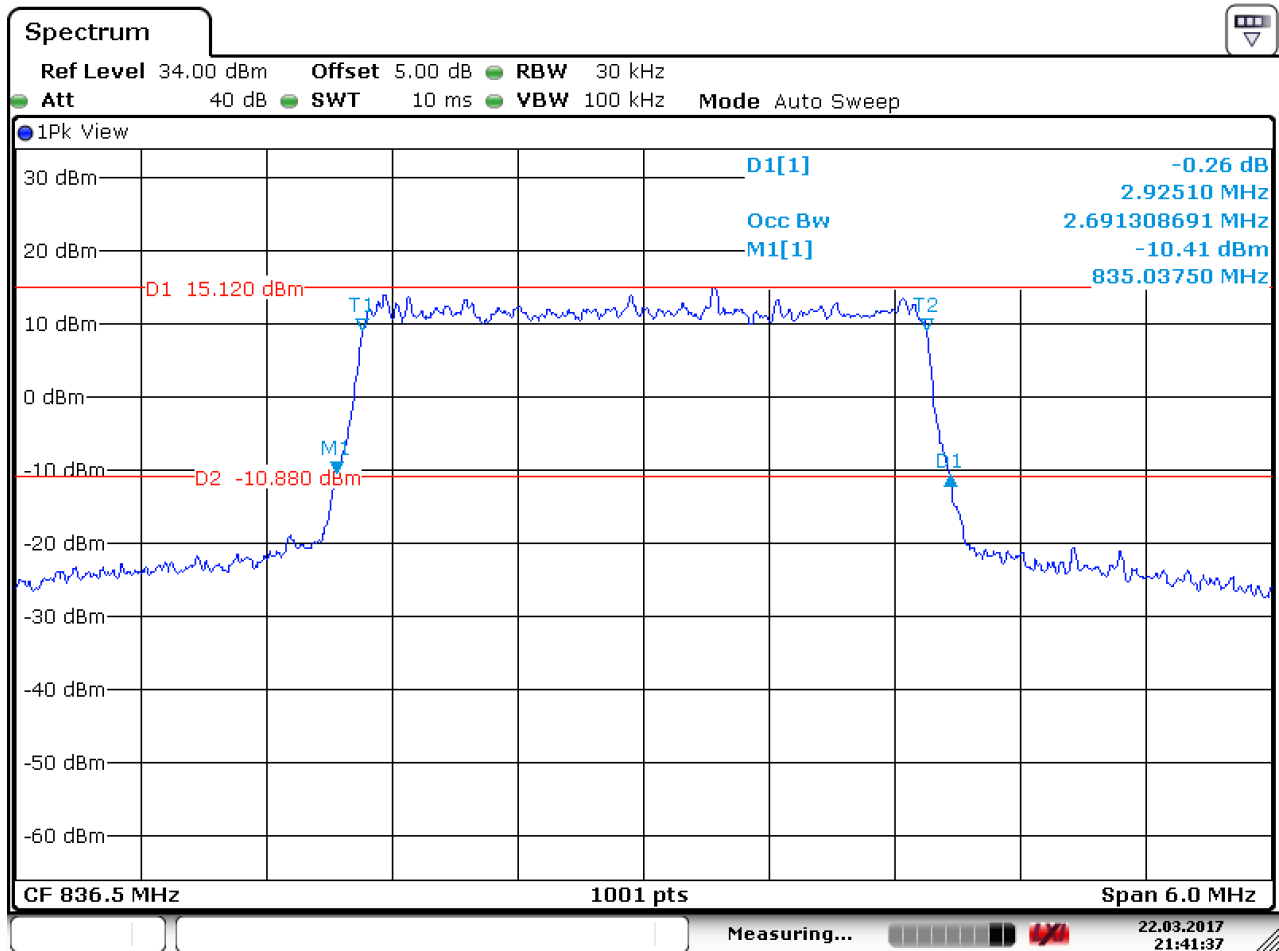


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4.1.1.3.2 Test Channel = MCH

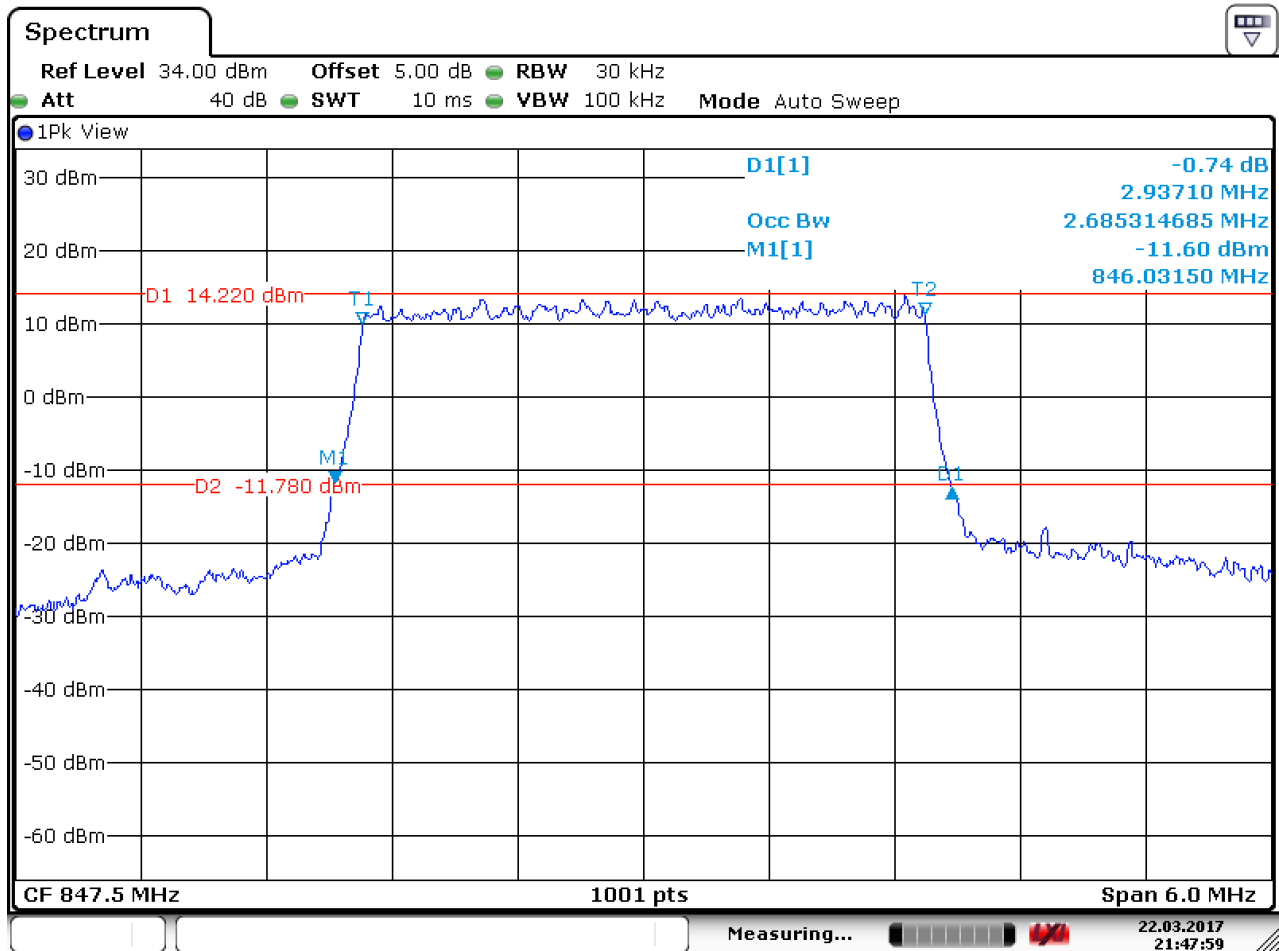


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4.1.1.3.3 Test Channel = HCH



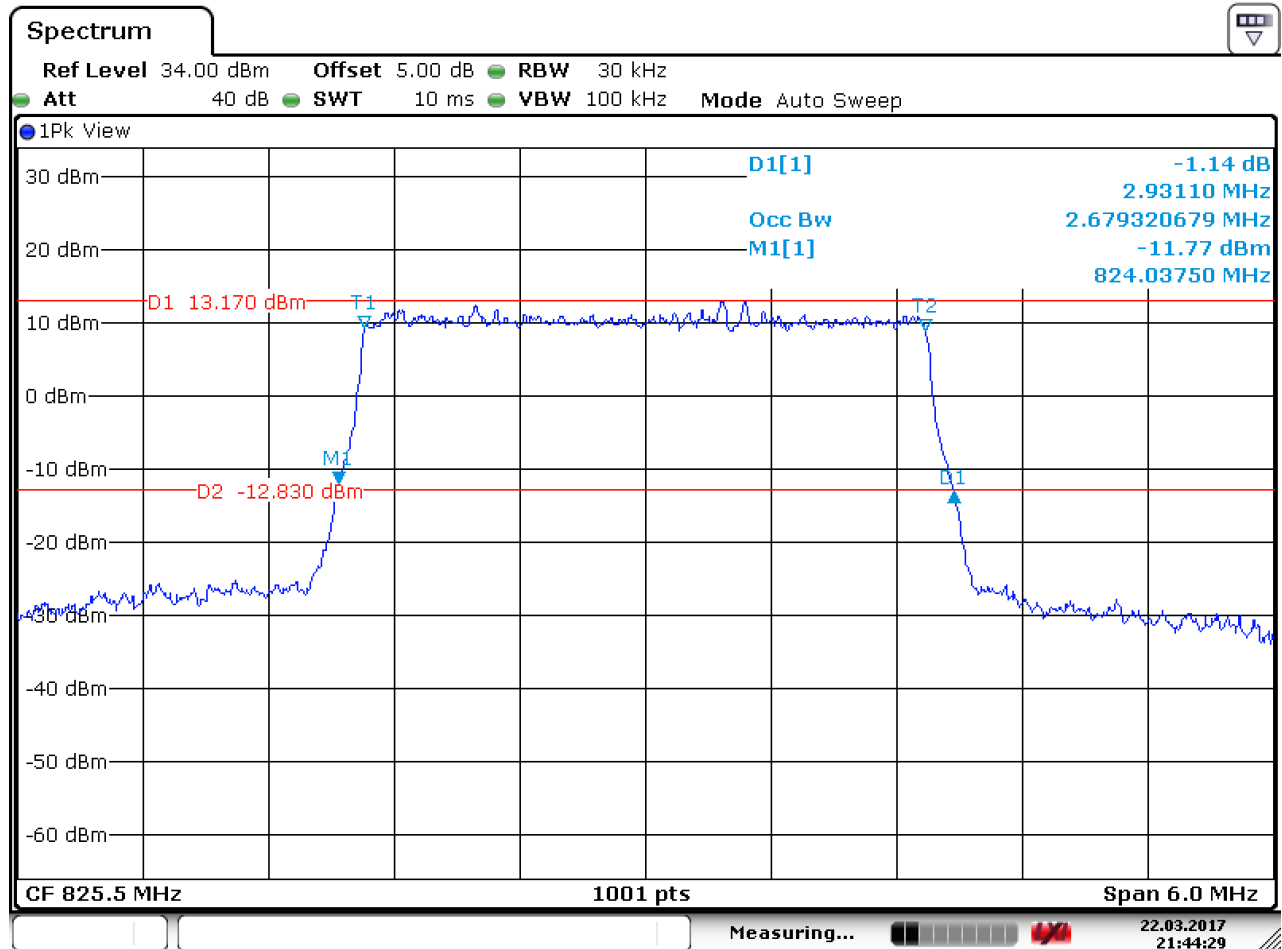
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4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH

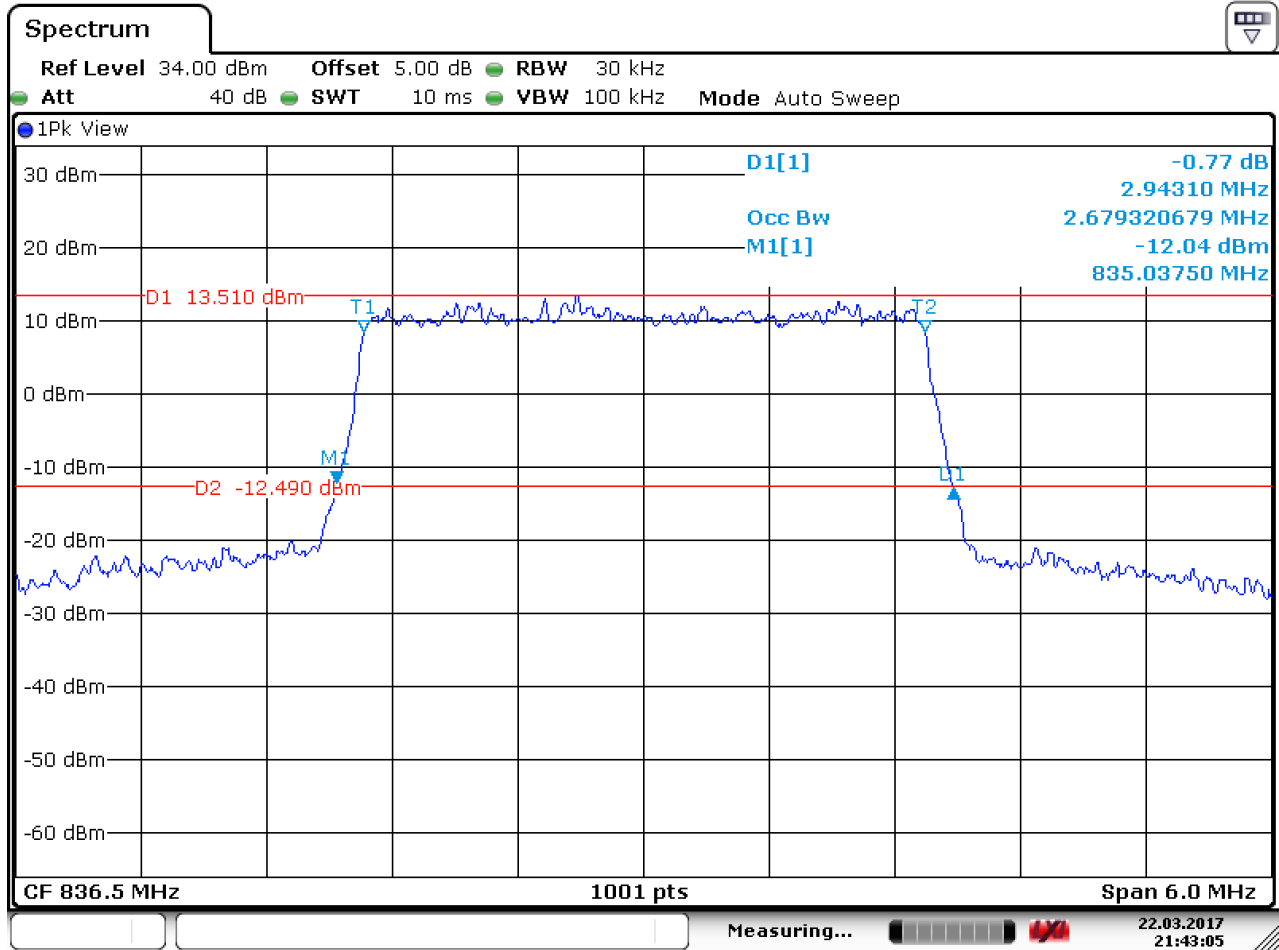


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4.1.1.4.2 Test Channel = MCH

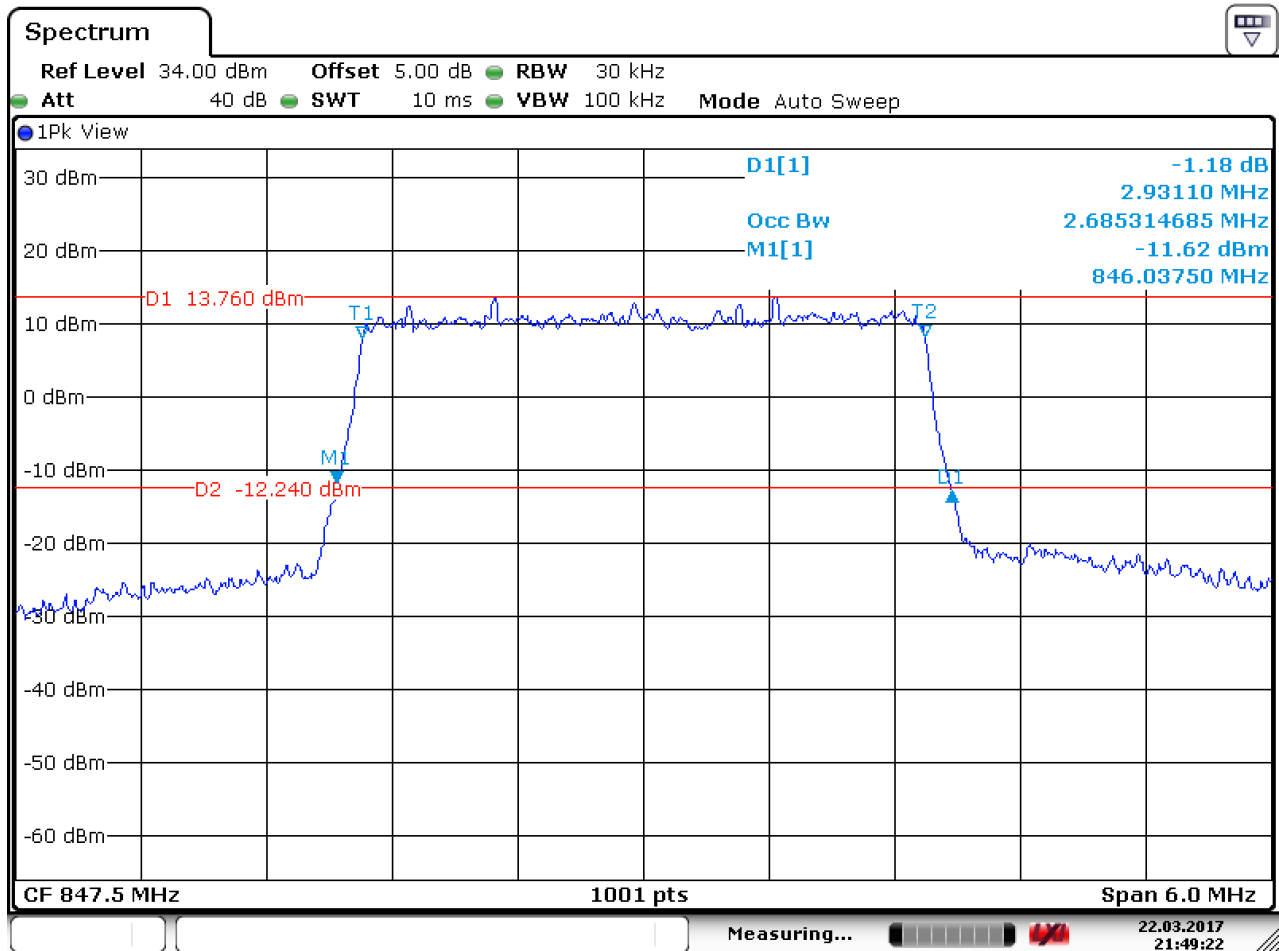


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4.1.1.4.3 Test Channel = HCH



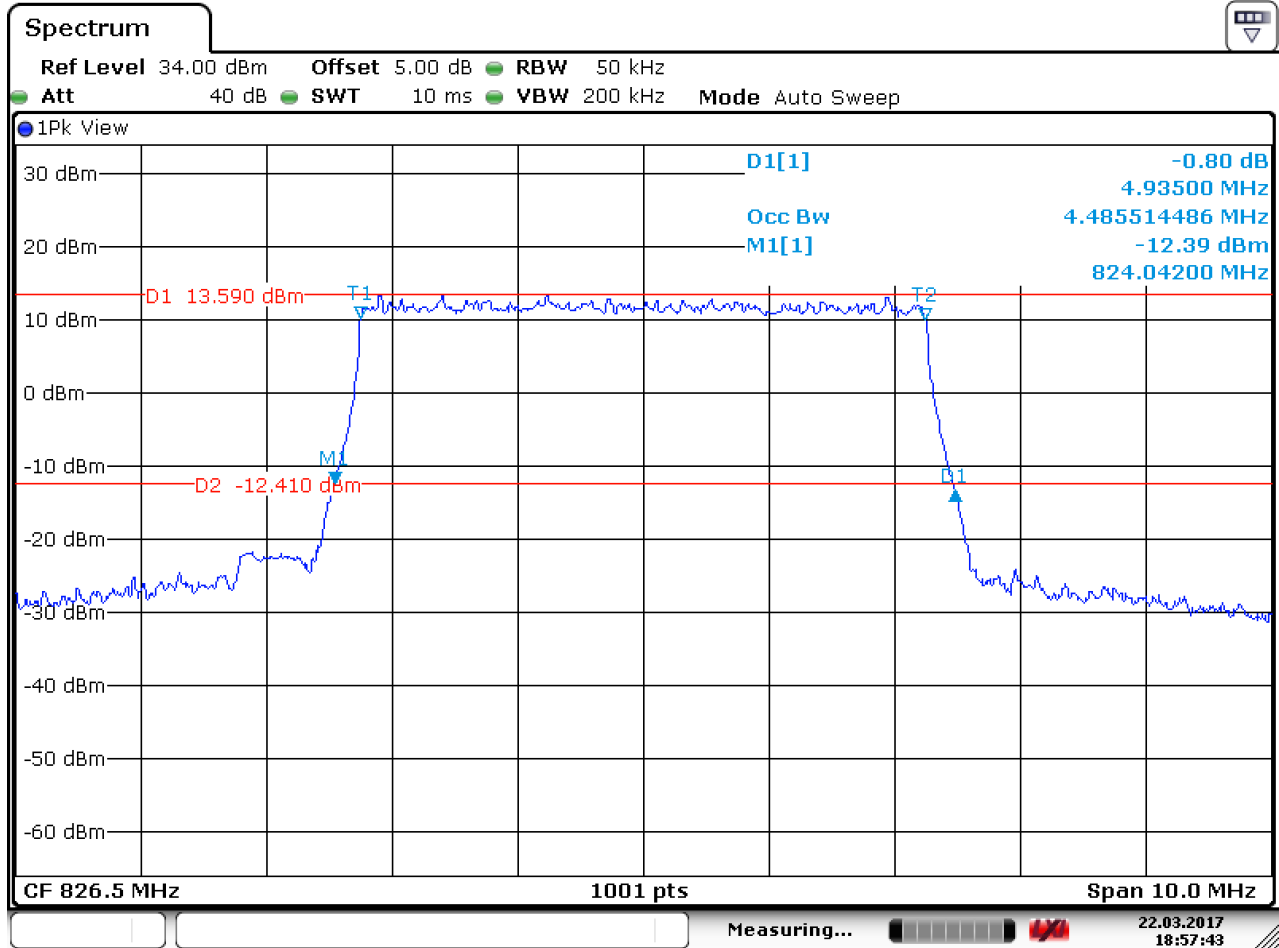
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4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH

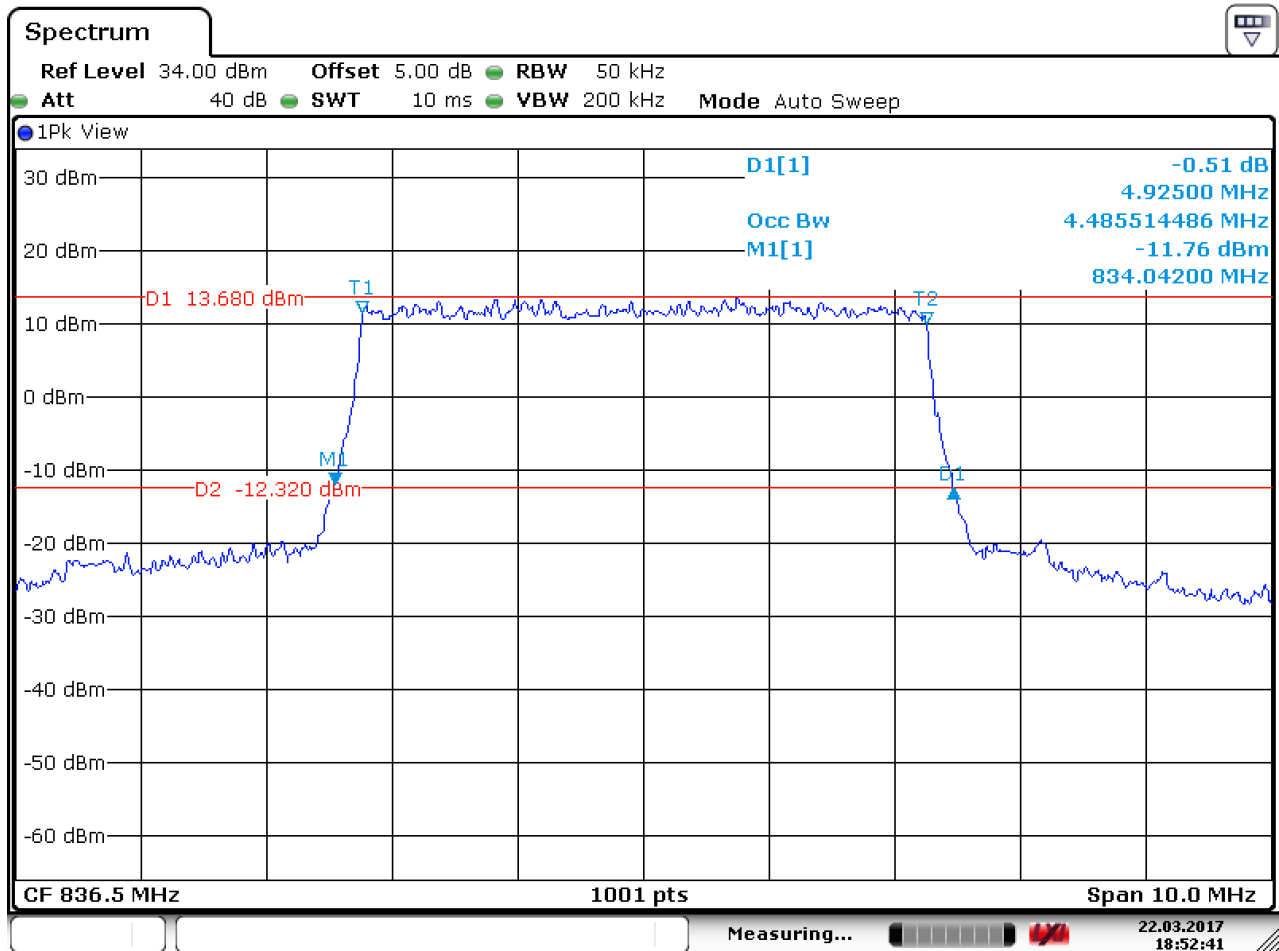


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4.1.1.5.2 Test Channel = MCH

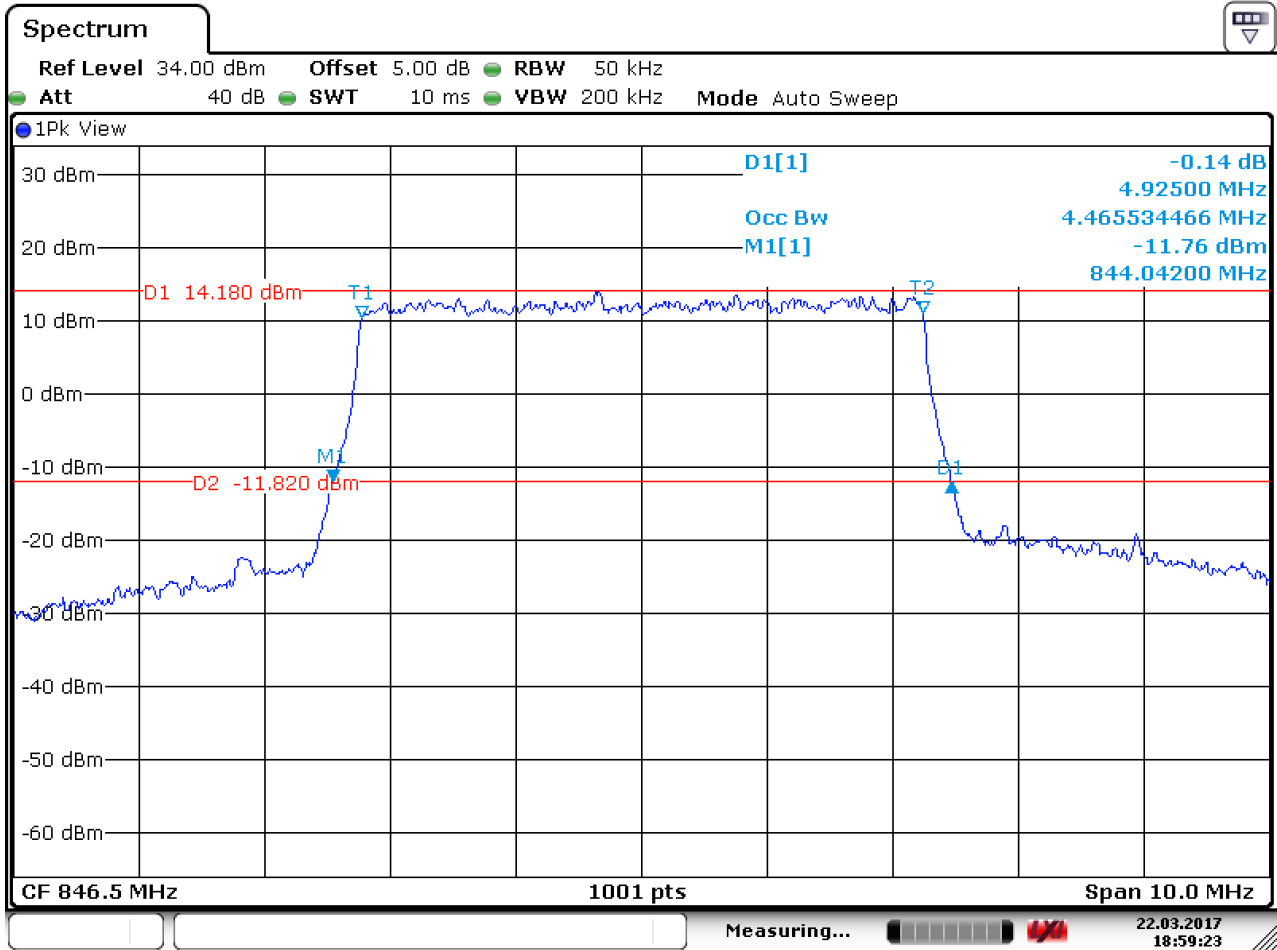


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4.1.1.5.3 Test Channel = HCH



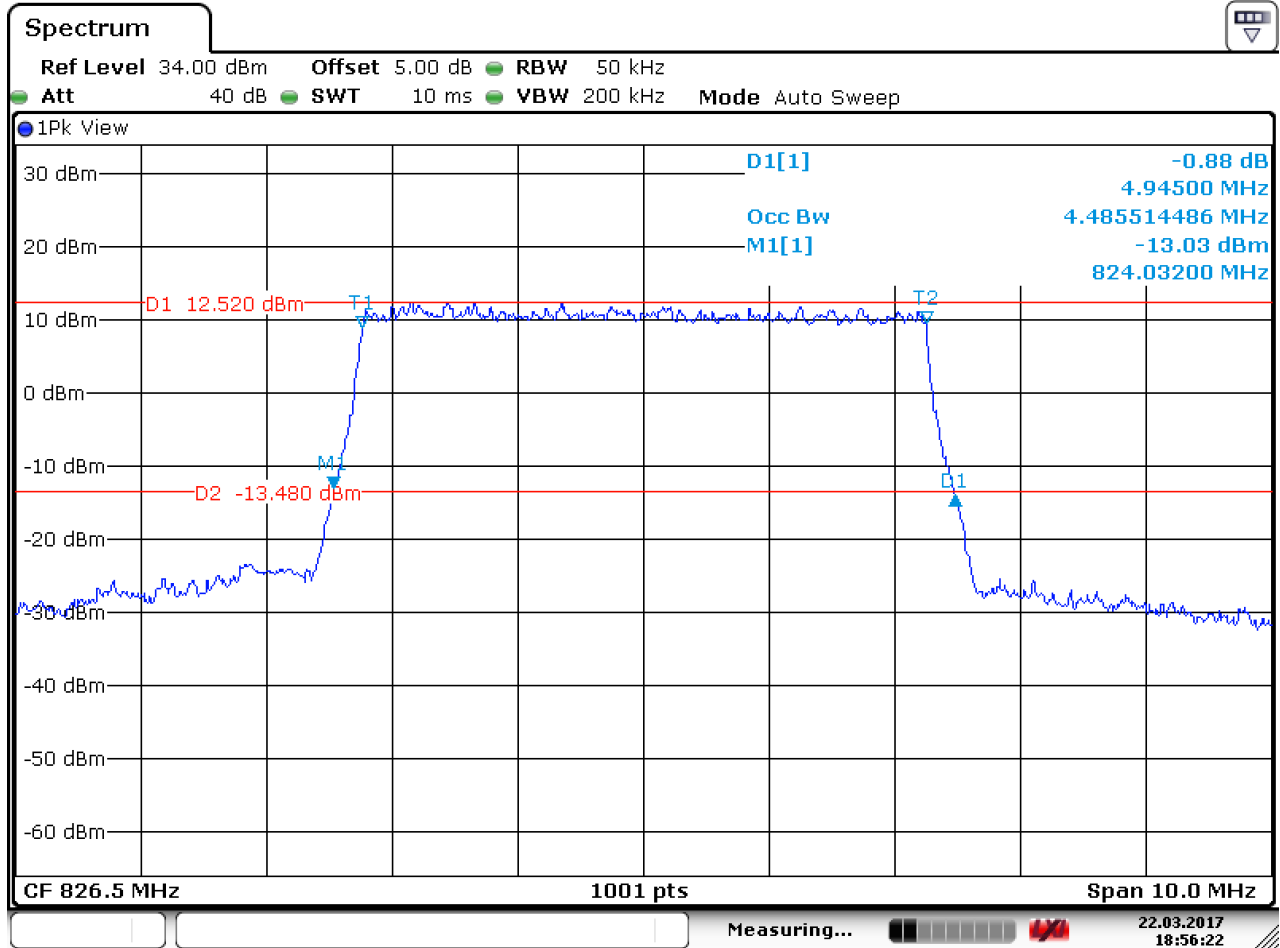
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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH

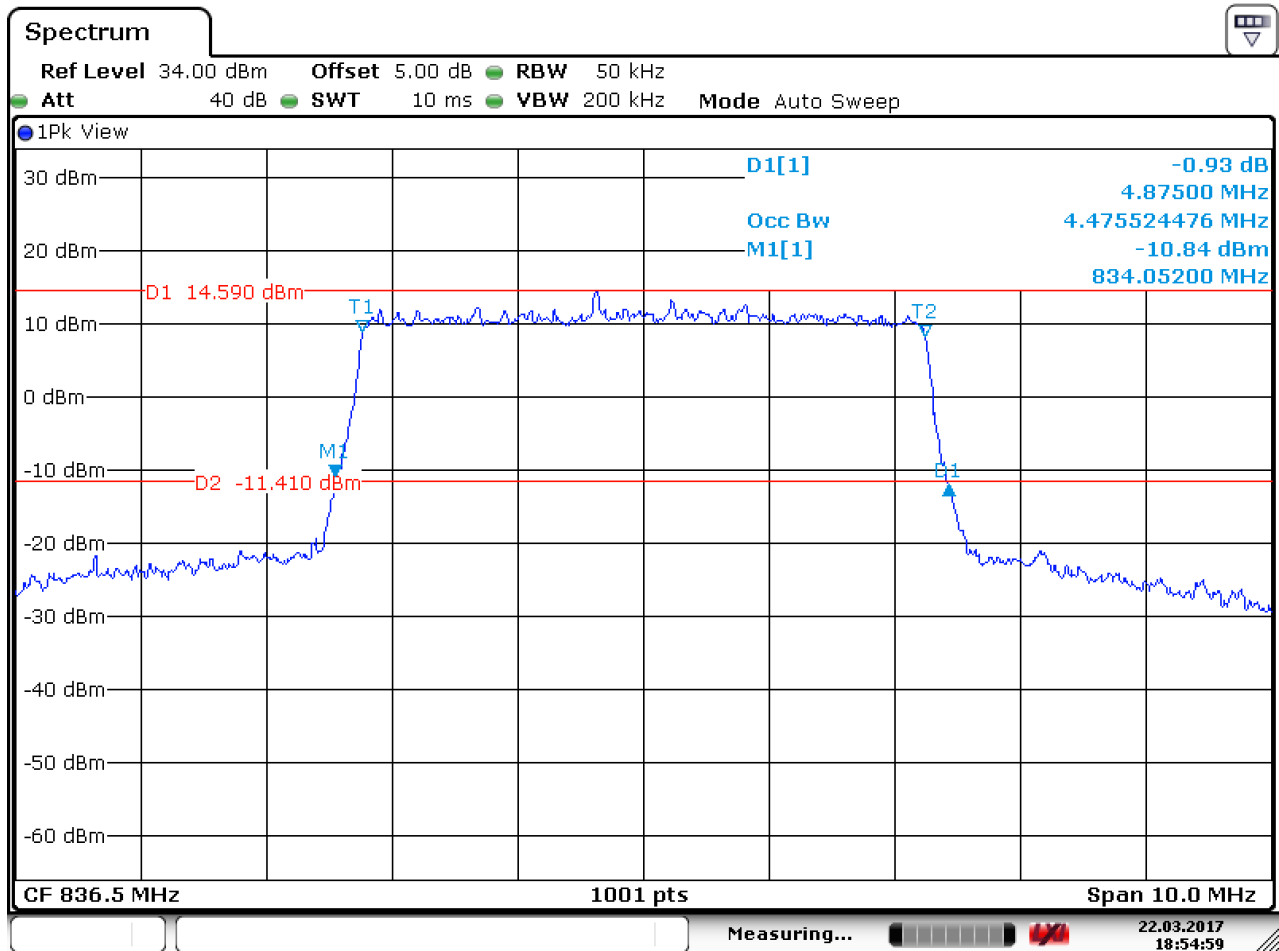


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4.1.1.6.2 Test Channel = MCH

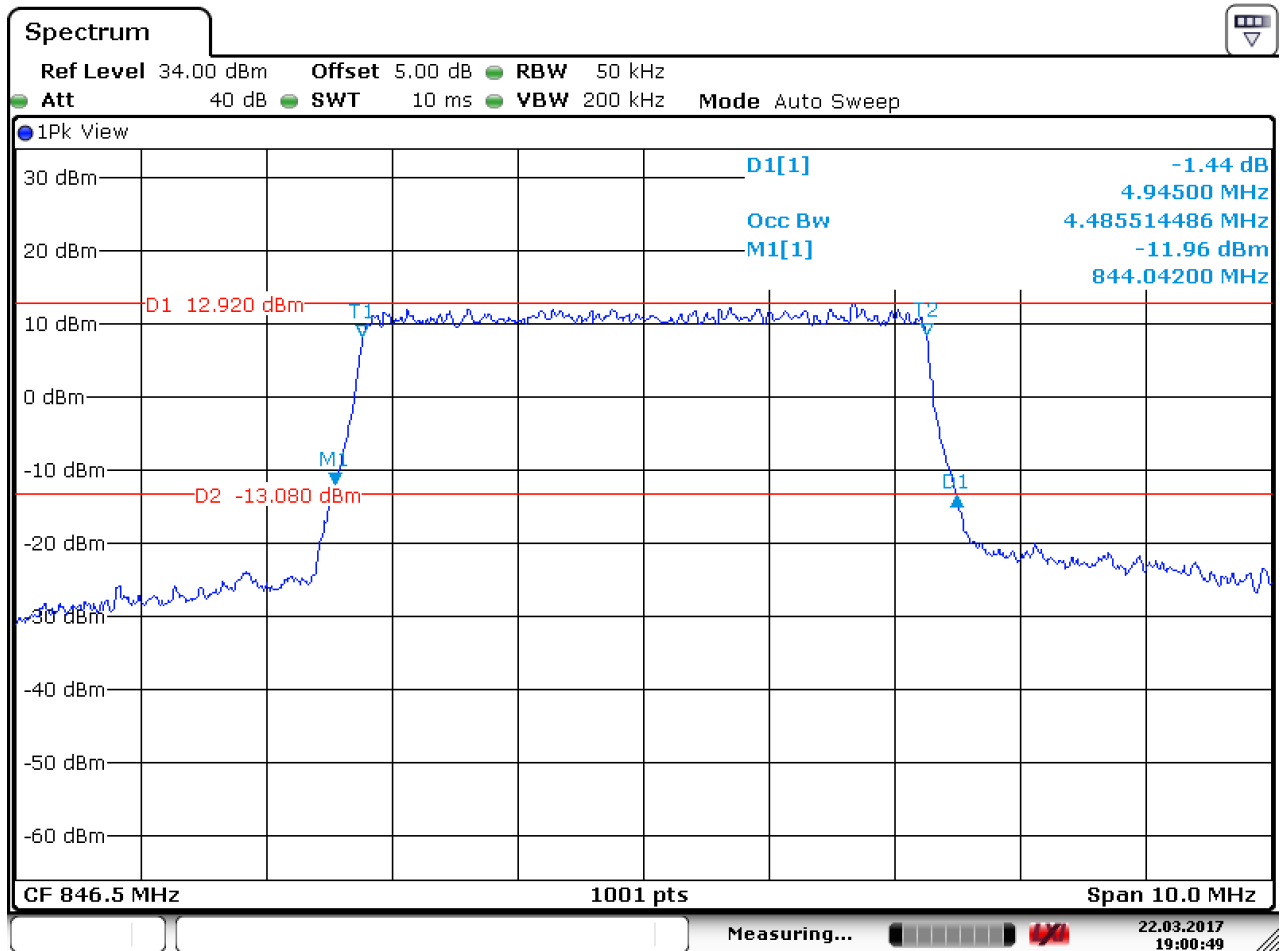


Date: 22.MAR.2017 18:55:00

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4.1.1.6.3 Test Channel = HCH



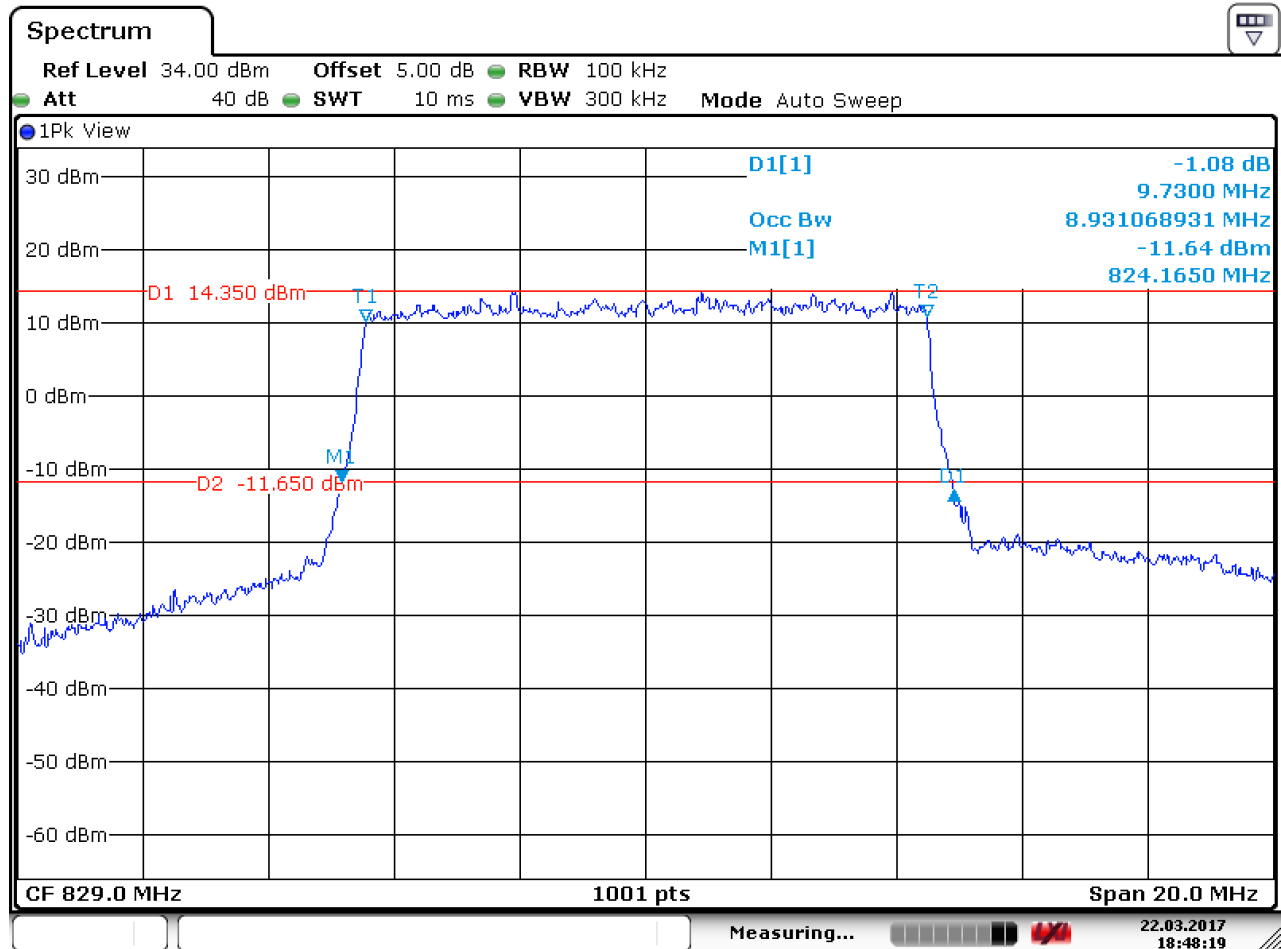
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4.1.1.7 Test Mode = LTE/TM1 10MHz

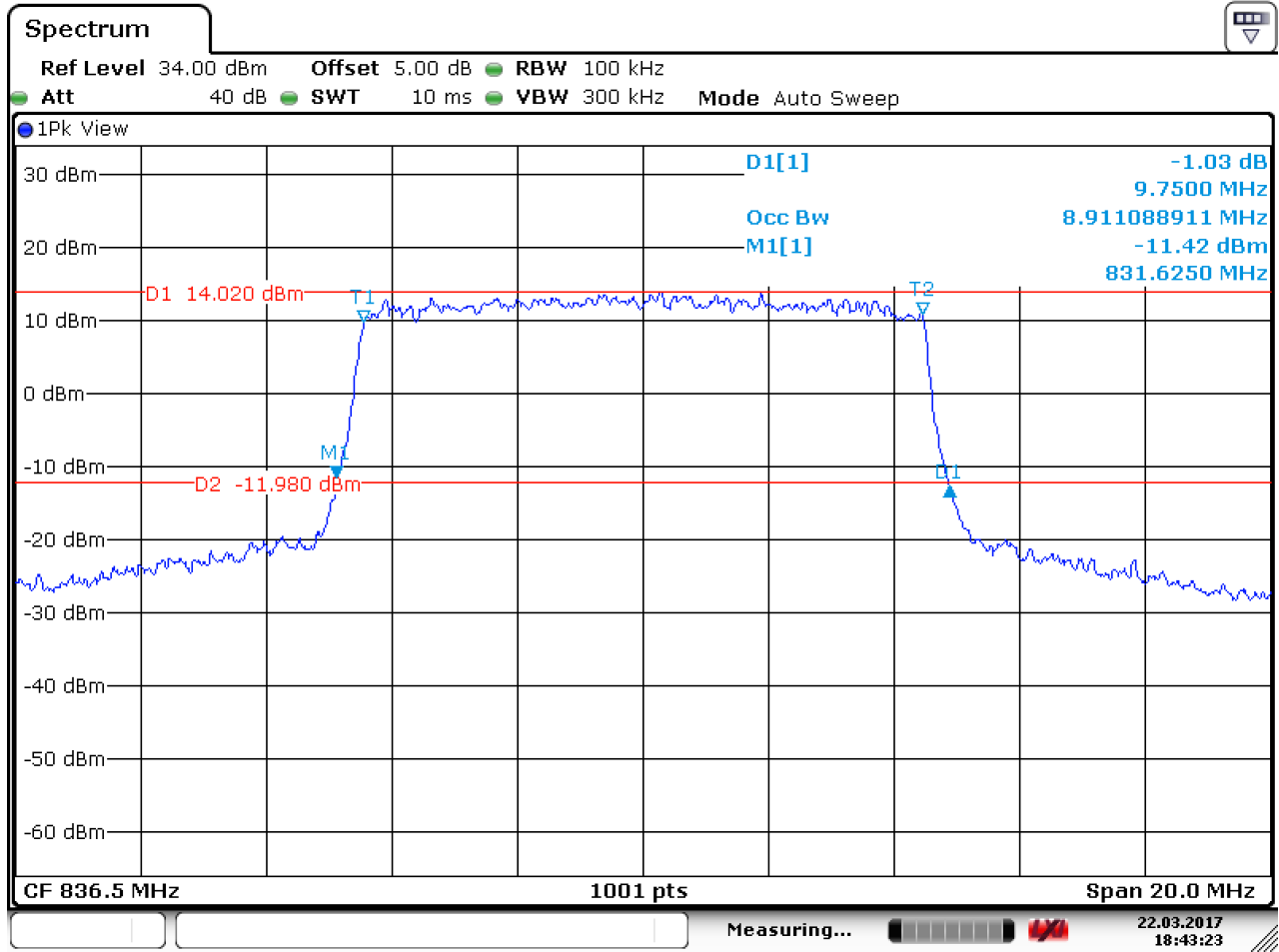
4.1.1.7.1 Test Channel = LCH



Date: 22.MAR.2017 18:48:20



4.1.1.7.2 Test Channel = MCH

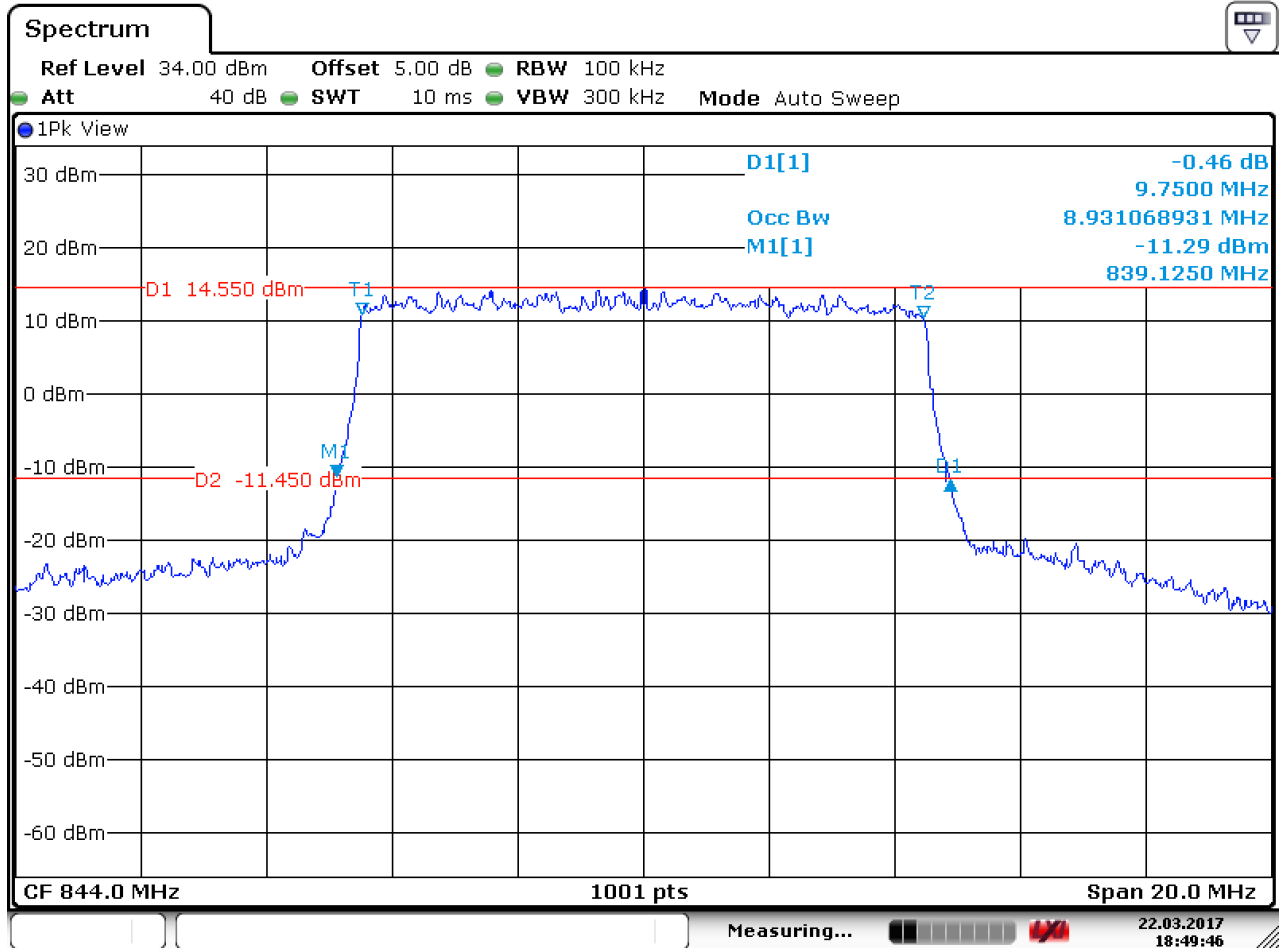


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4.1.1.7.3 Test Channel = HCH



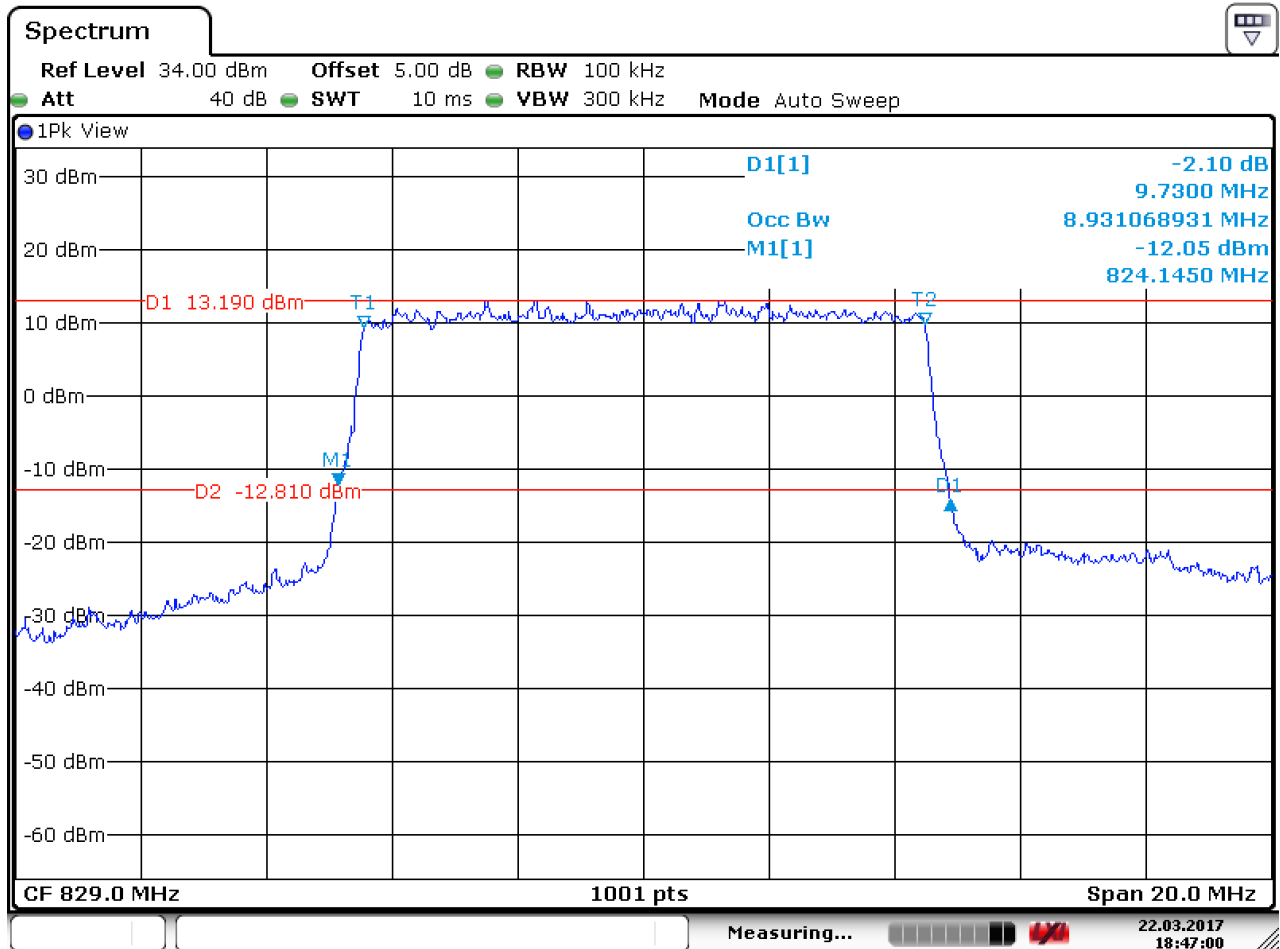
Date: 22.MAR.2017 18:49:46

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4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = LCH

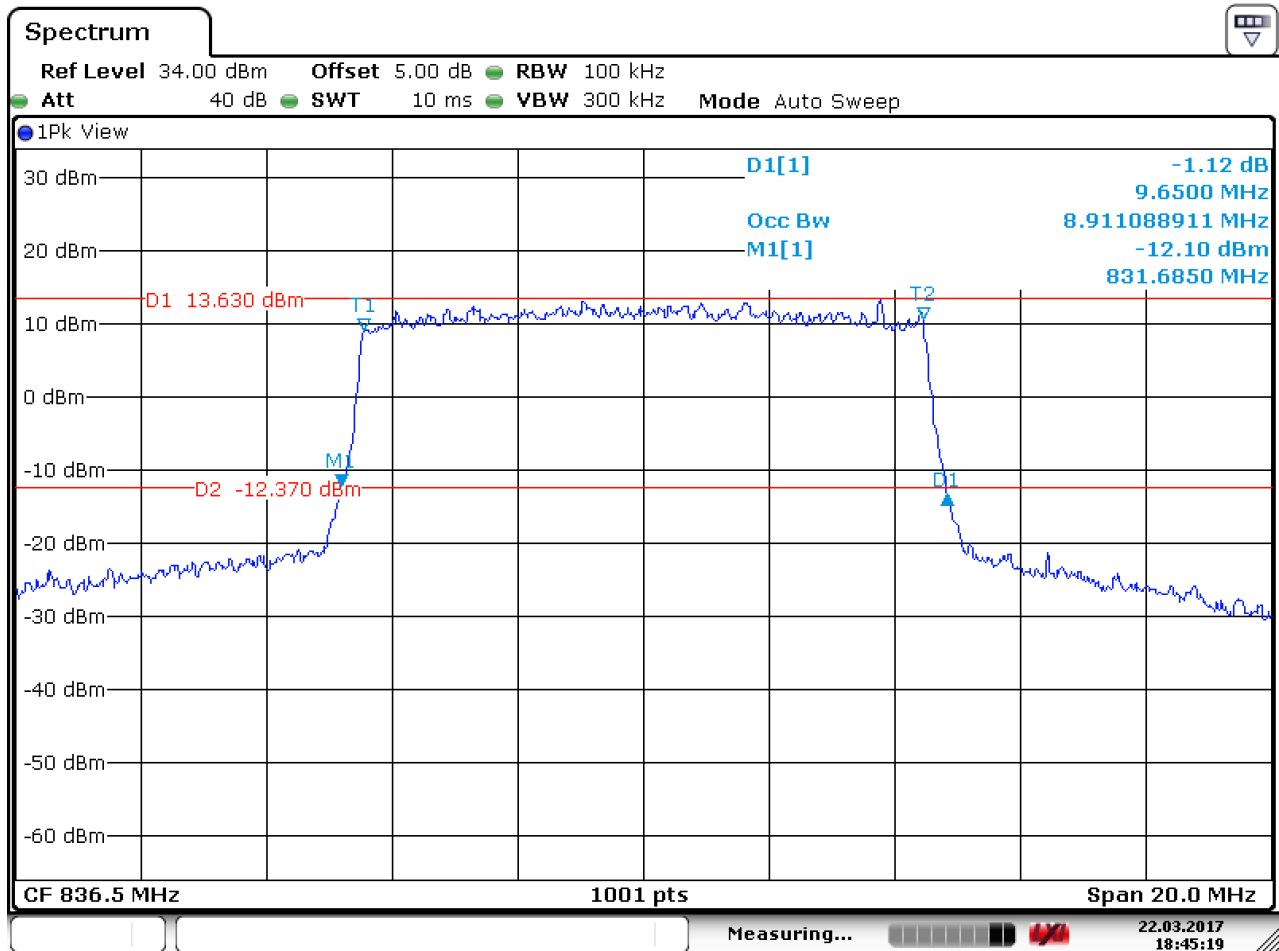


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4.1.1.8.2 Test Channel = MCH

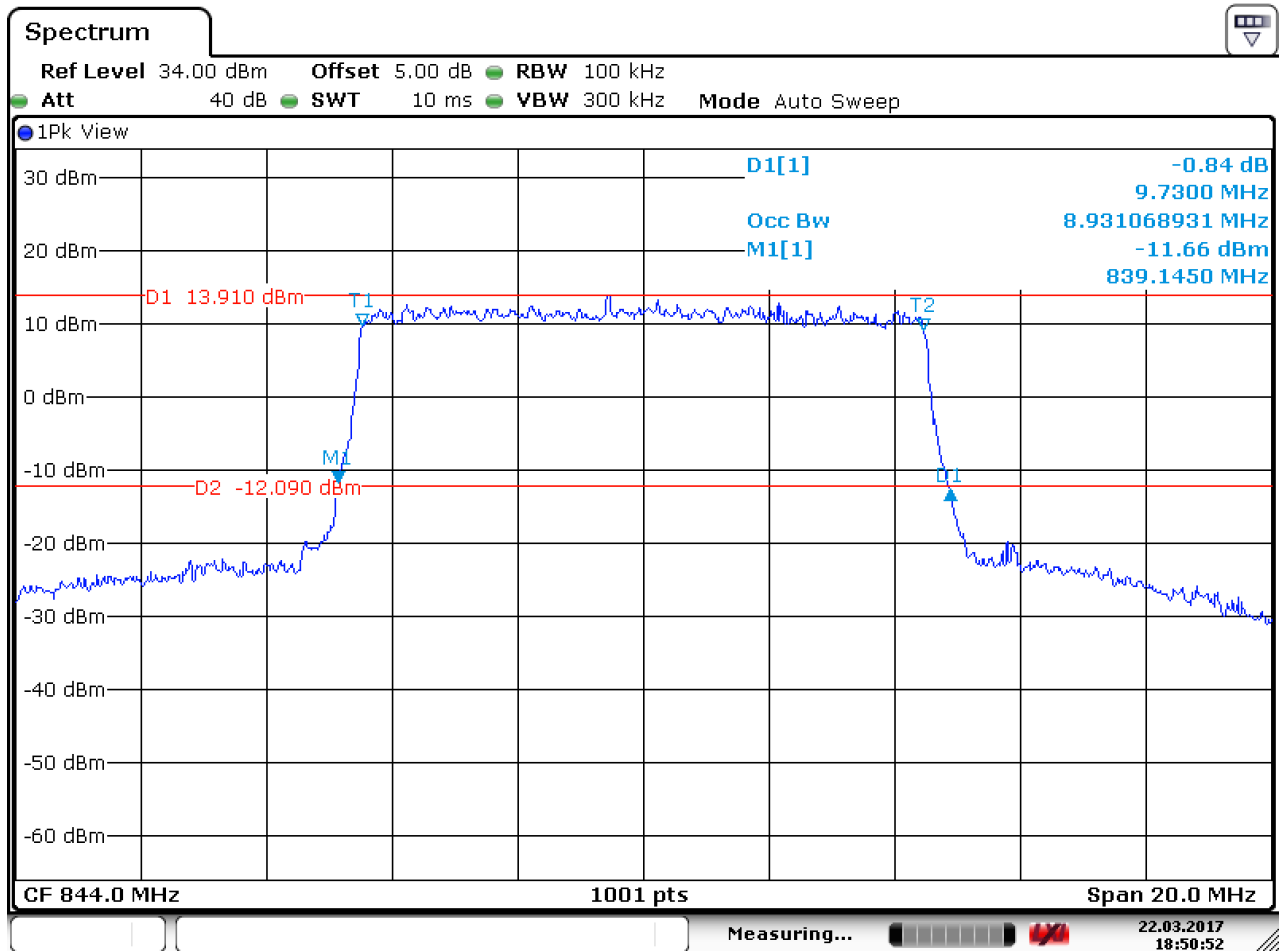


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4.1.1.8.3 Test Channel = HCH



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5 Band Edges Compliance

Part I –

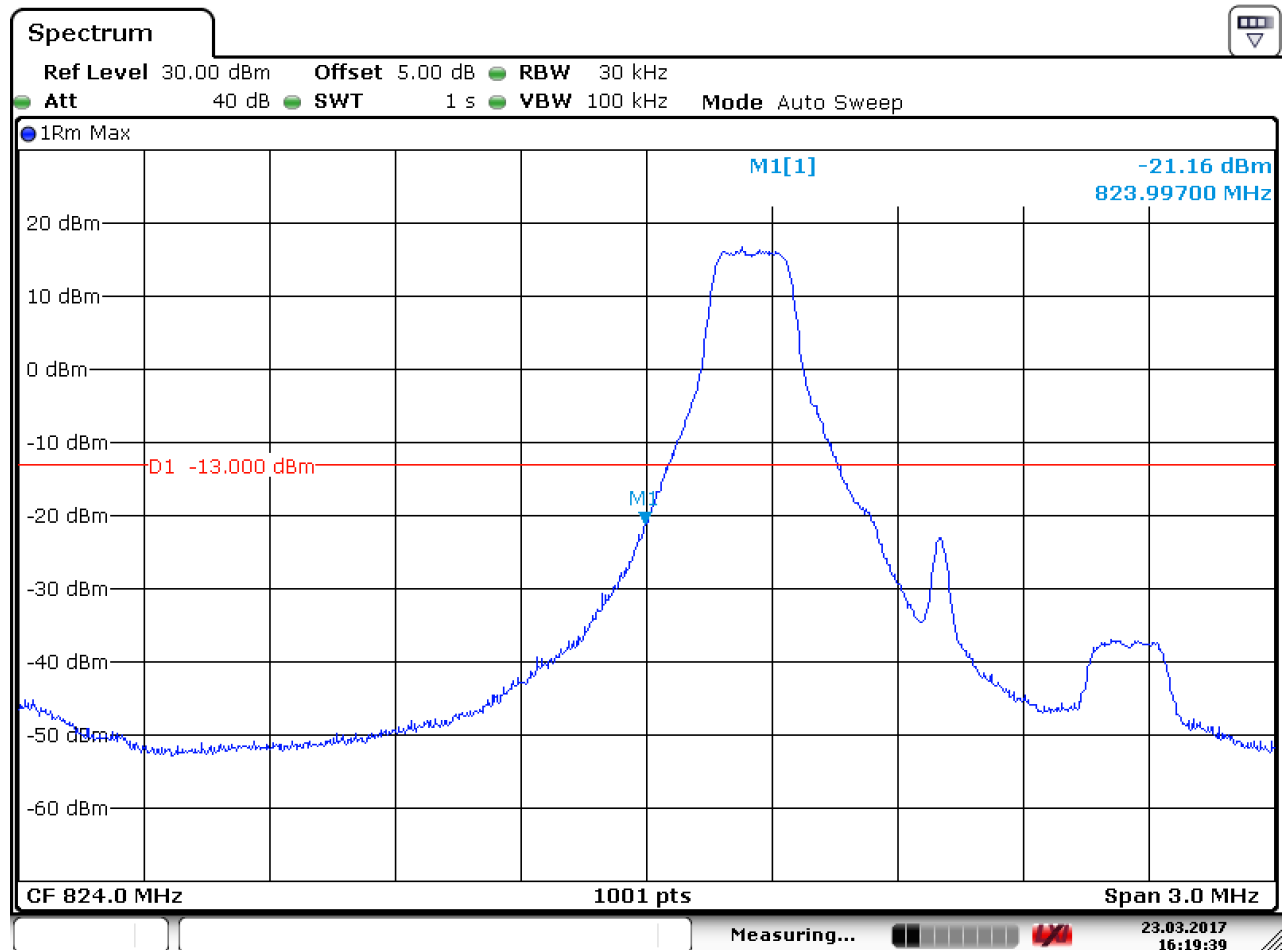
5.1 For LTE

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

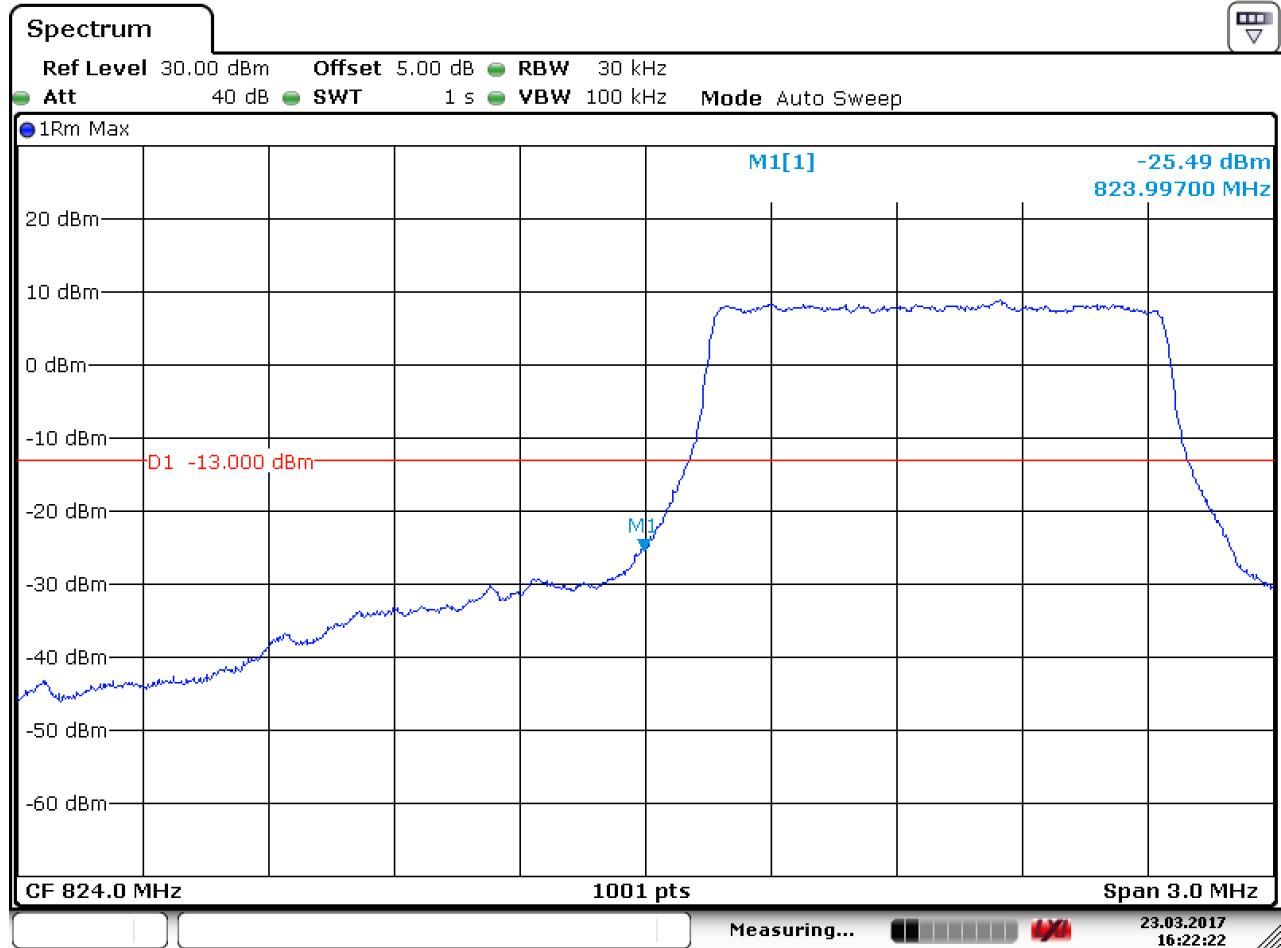


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5.1.1.1.1.2 Test RB=6RB



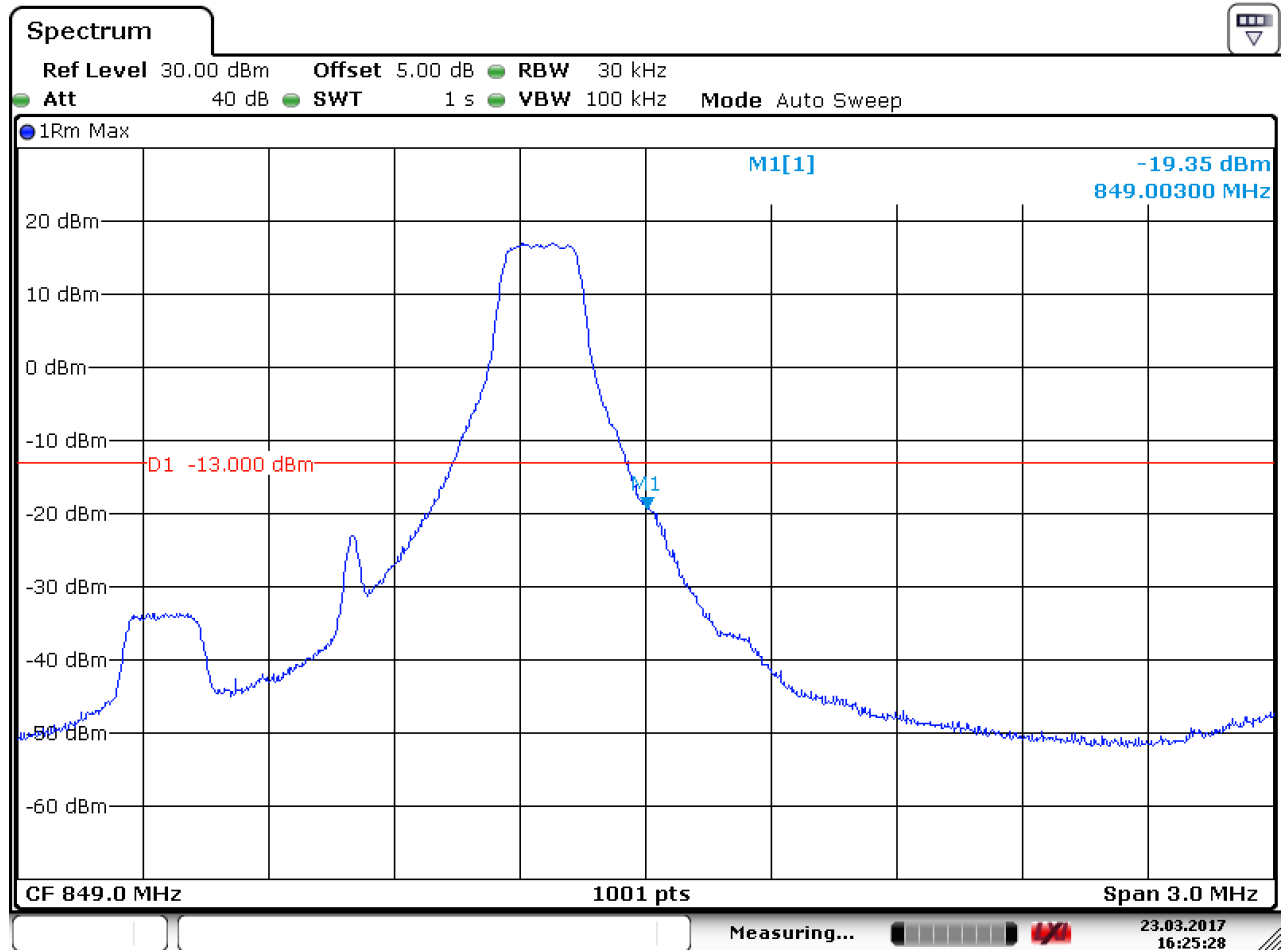
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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

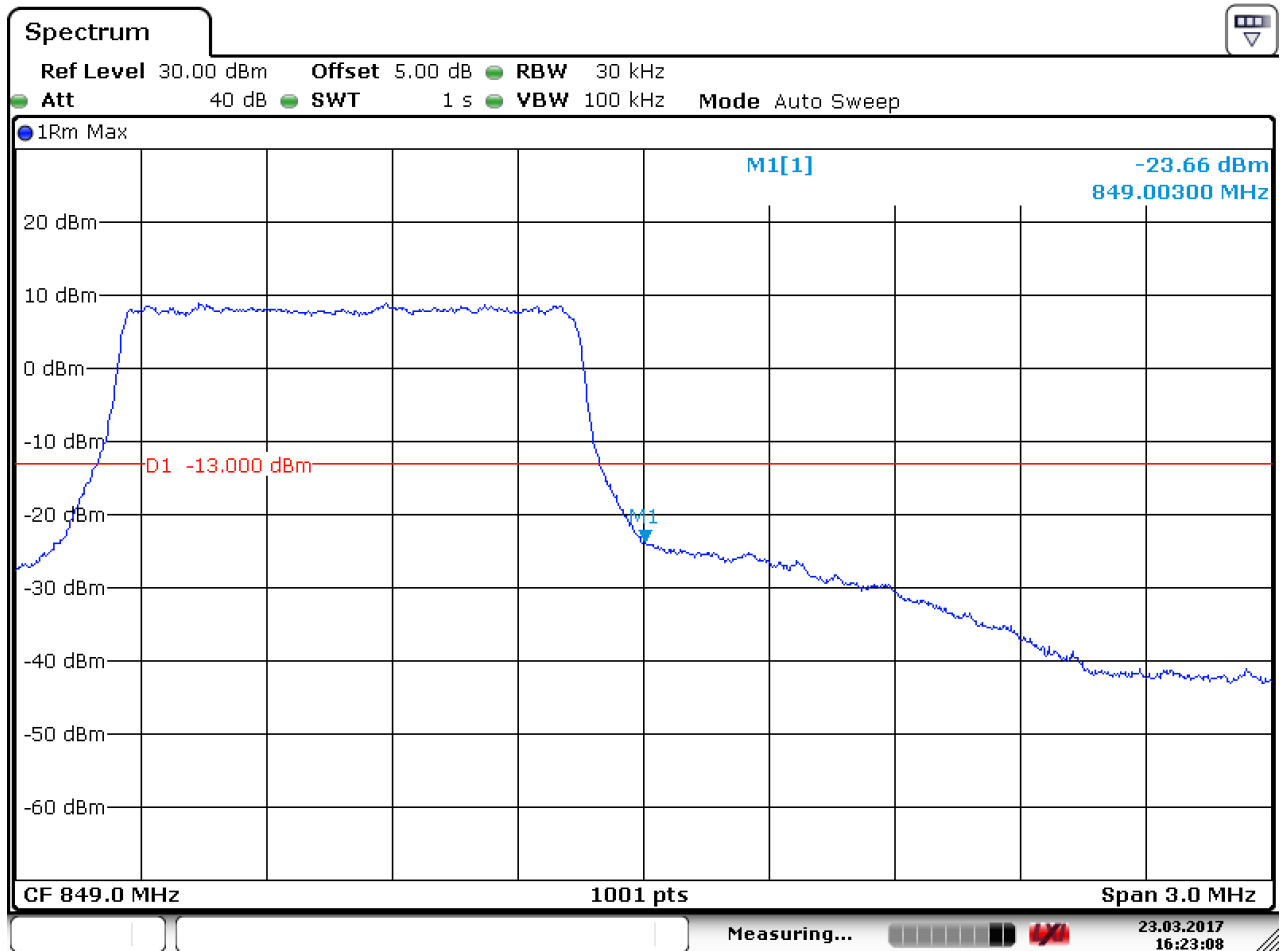


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5.1.1.1.2.2 Test RB=6RB



Date: 23.MAR.2017 16:23:08

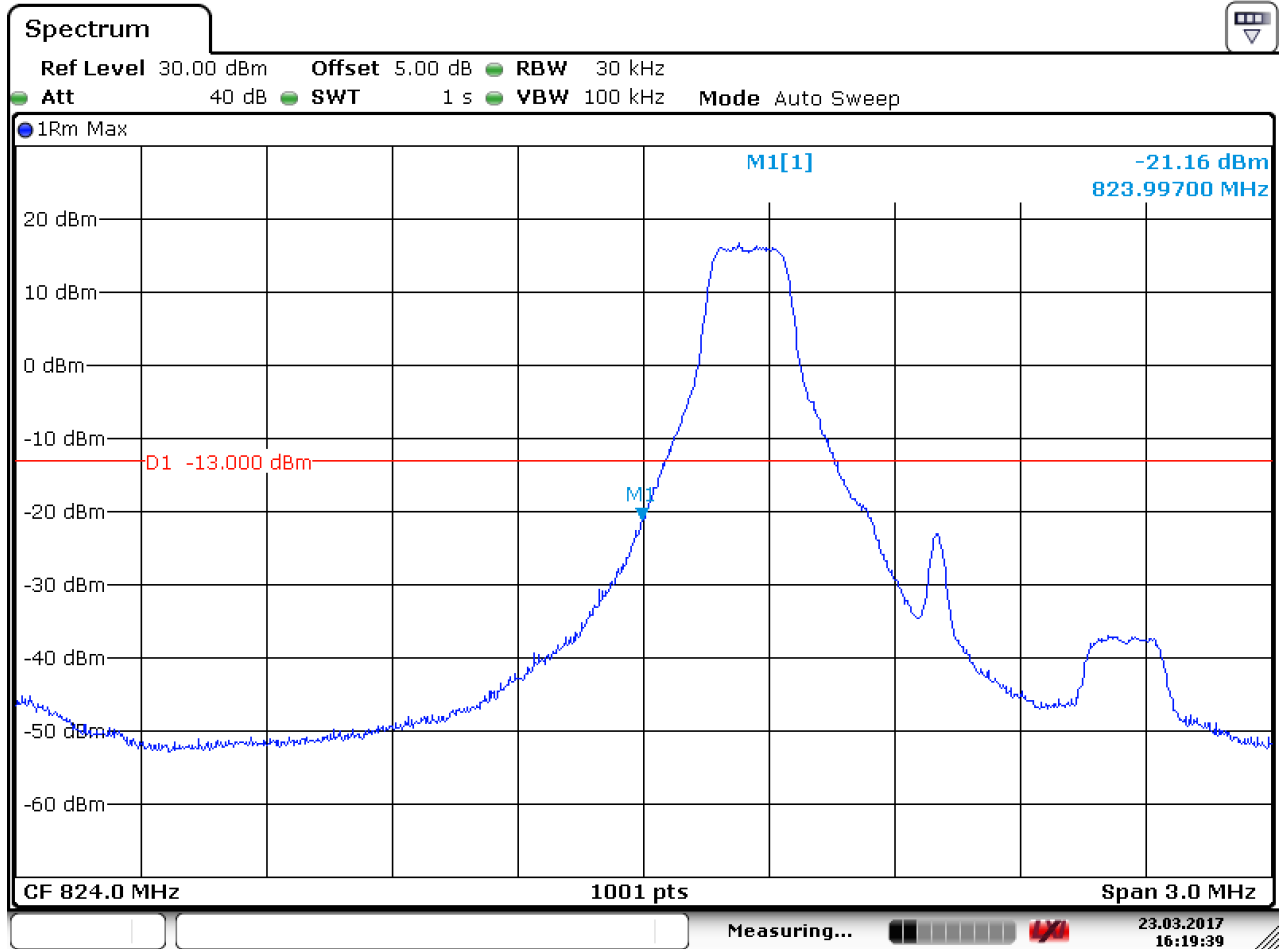
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5.1.1.2 Test Mode = LTE/TM2 1.4MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB

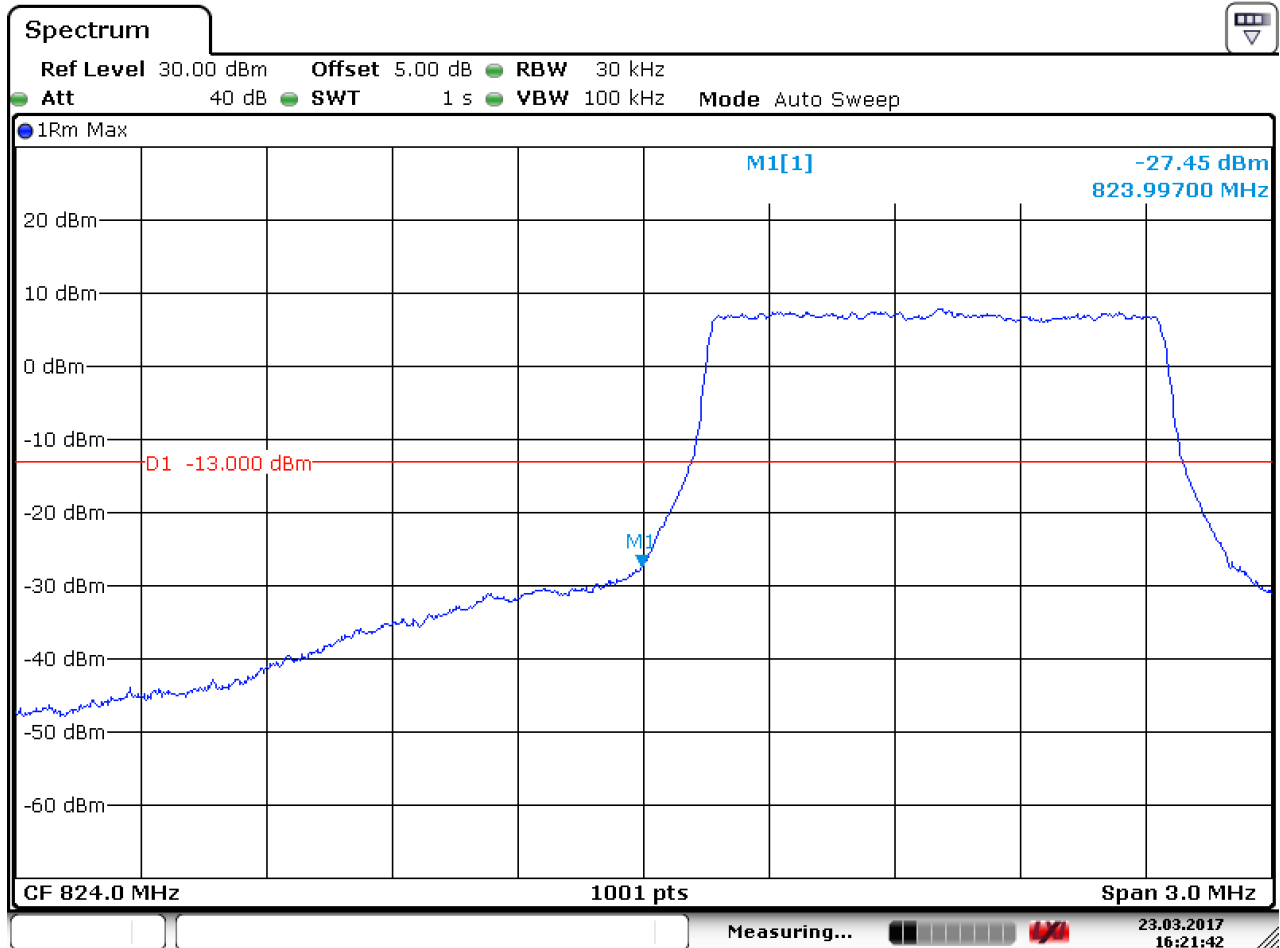


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5.1.1.2.1.2 Test RB=6RB

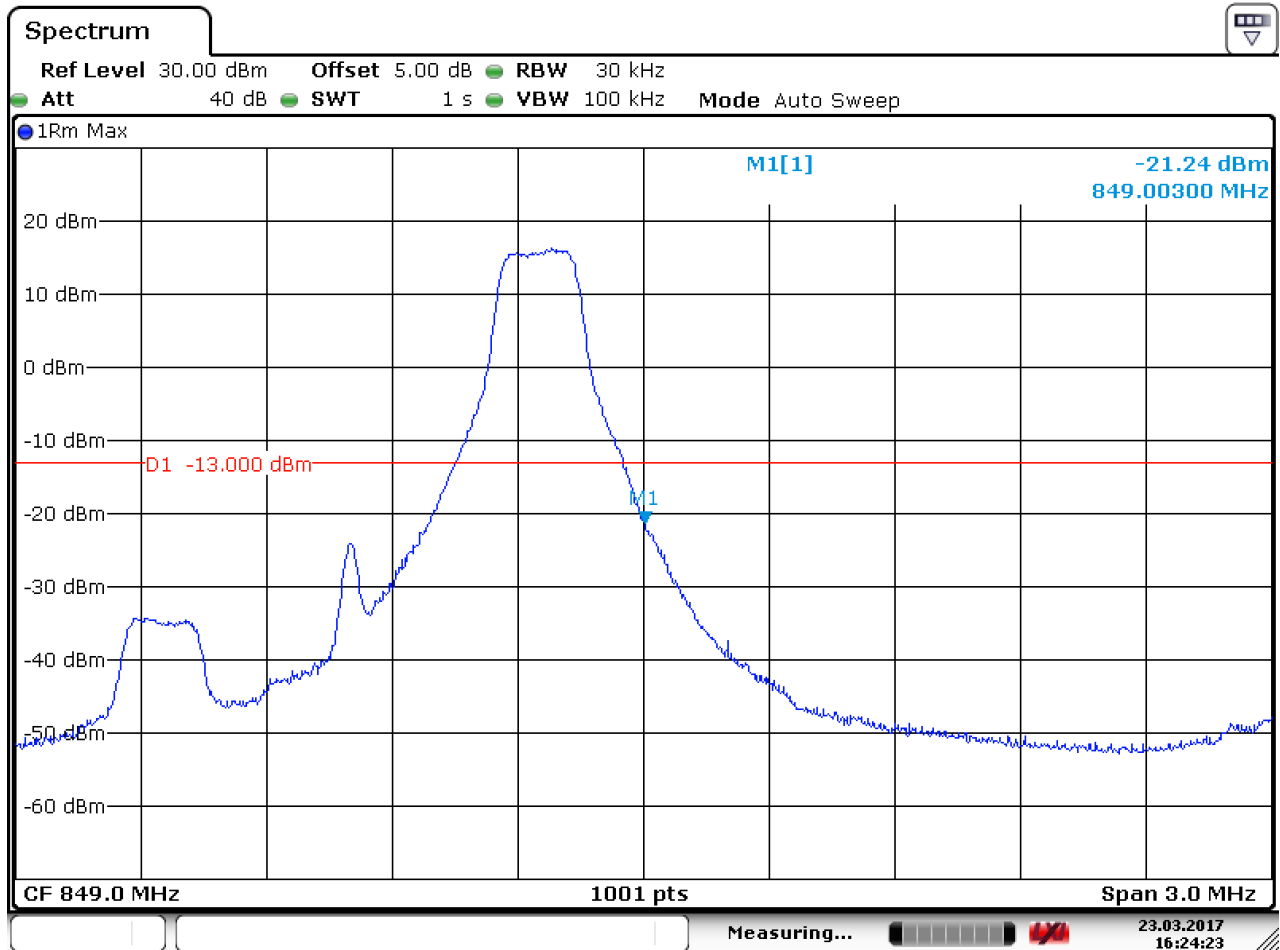


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5.1.1.2.2 Test Channel = HCH

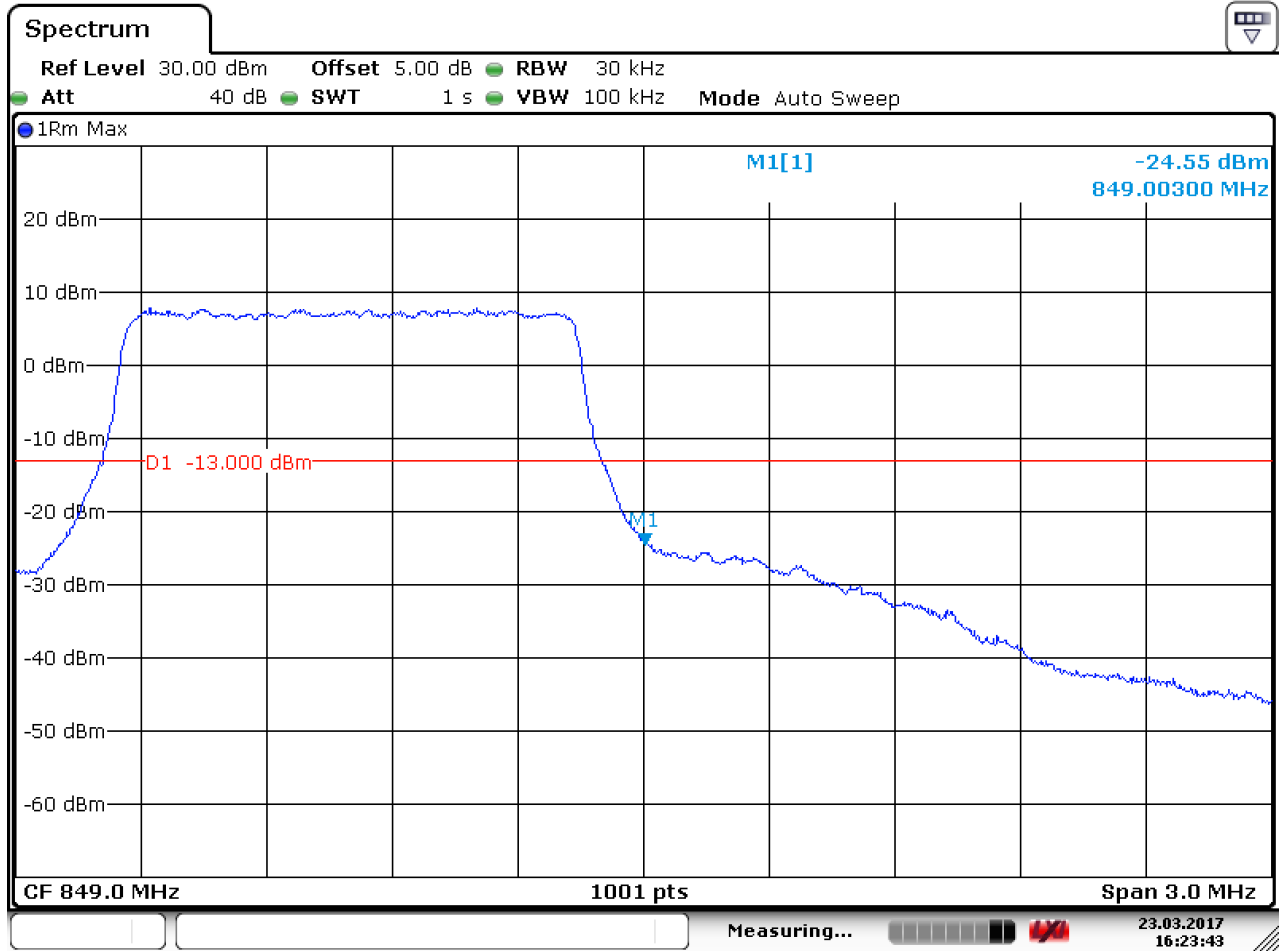
5.1.1.2.2.1 Test RB=1RB



Date: 23.MAR.2017 16:24:23



5.1.1.2.2.2 Test RB=6RB



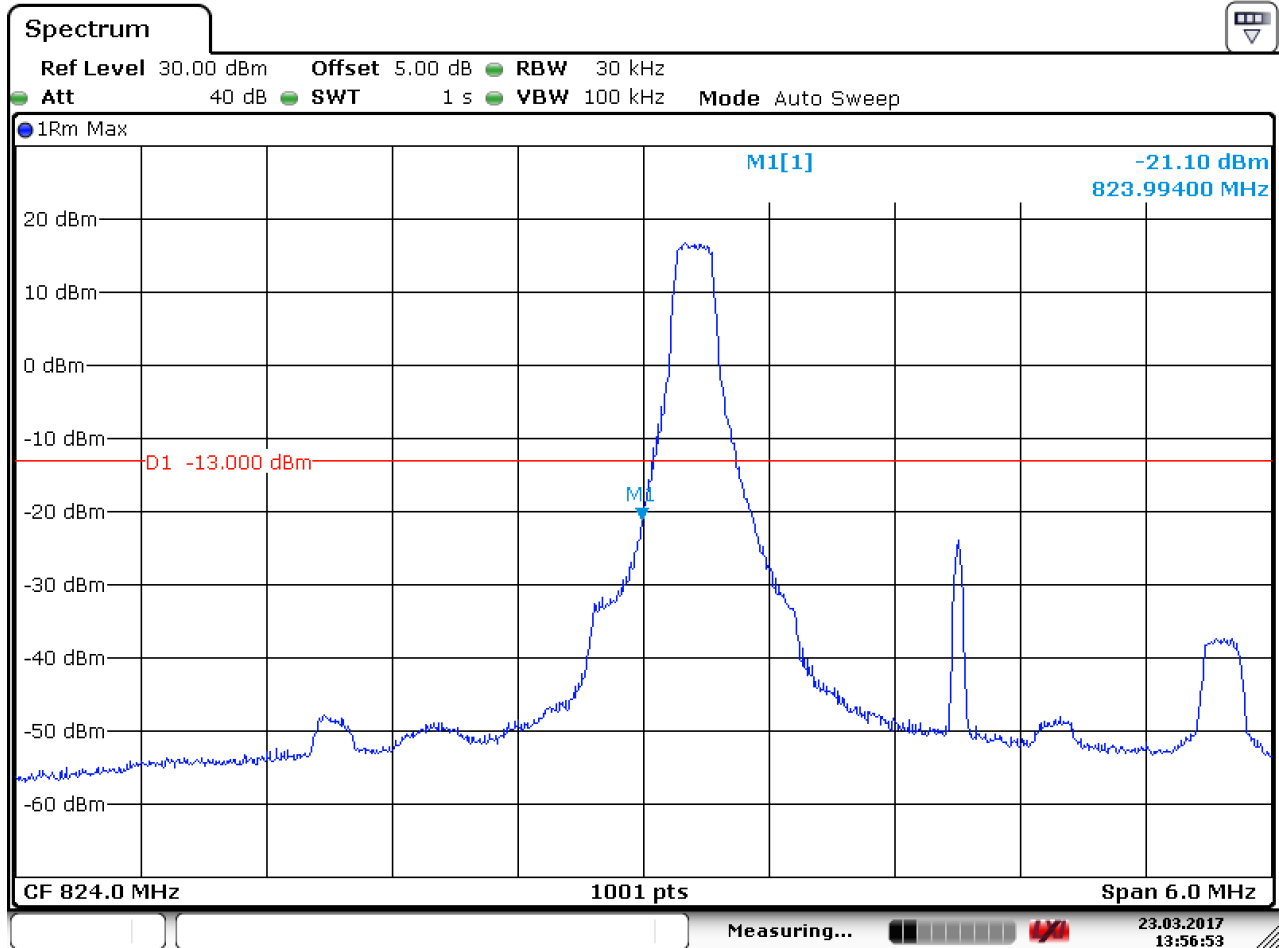
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5.1.1.3 Test Mode = LTE/TM2 3MHz
5.1.1.3.1 Test Channel = LCH

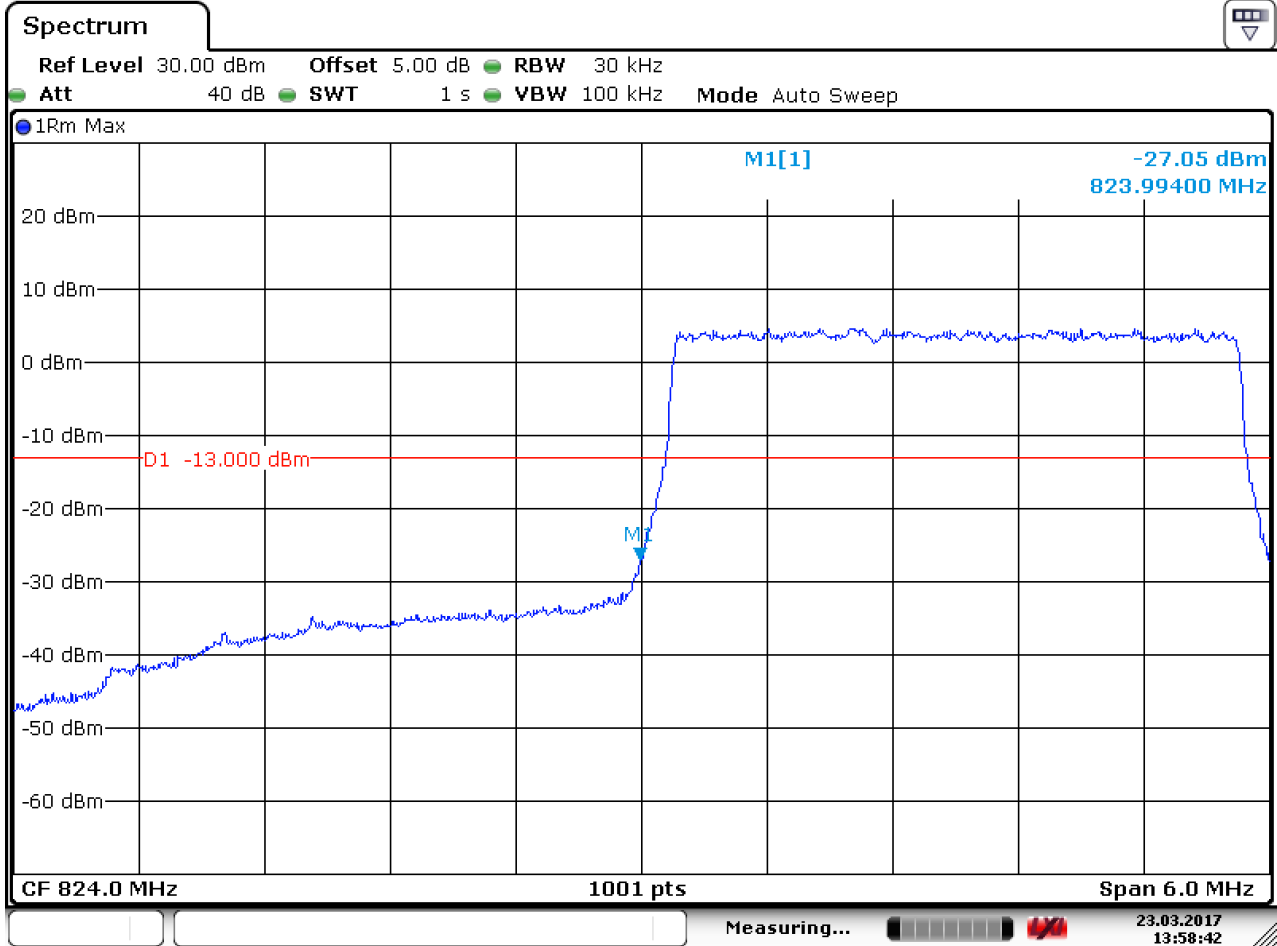
5.1.1.3.1.1 Test RB=1RB



Date: 23.MAR.2017 13:56:54



5.1.1.3.1.2 Test RB=15RB



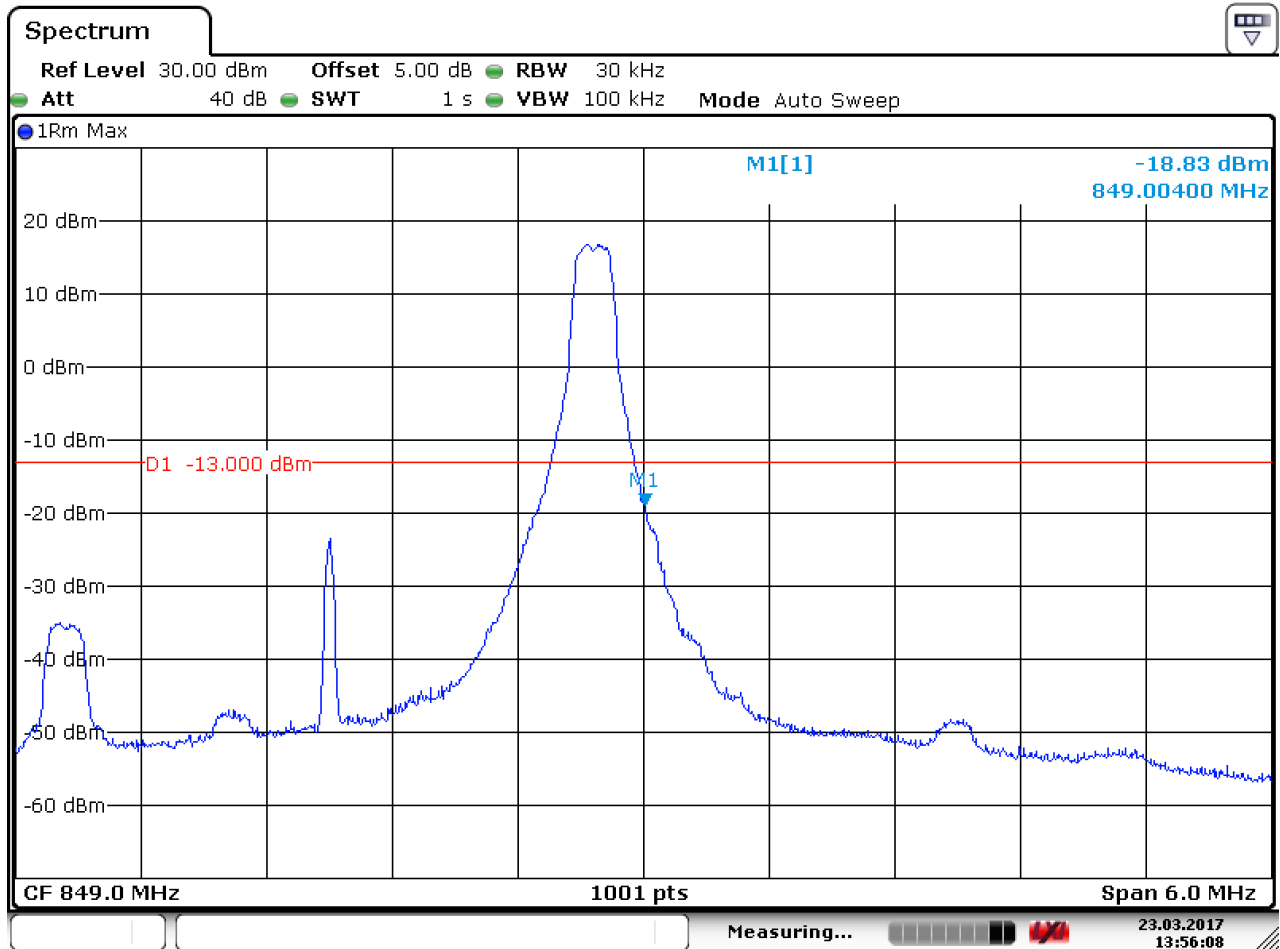
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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

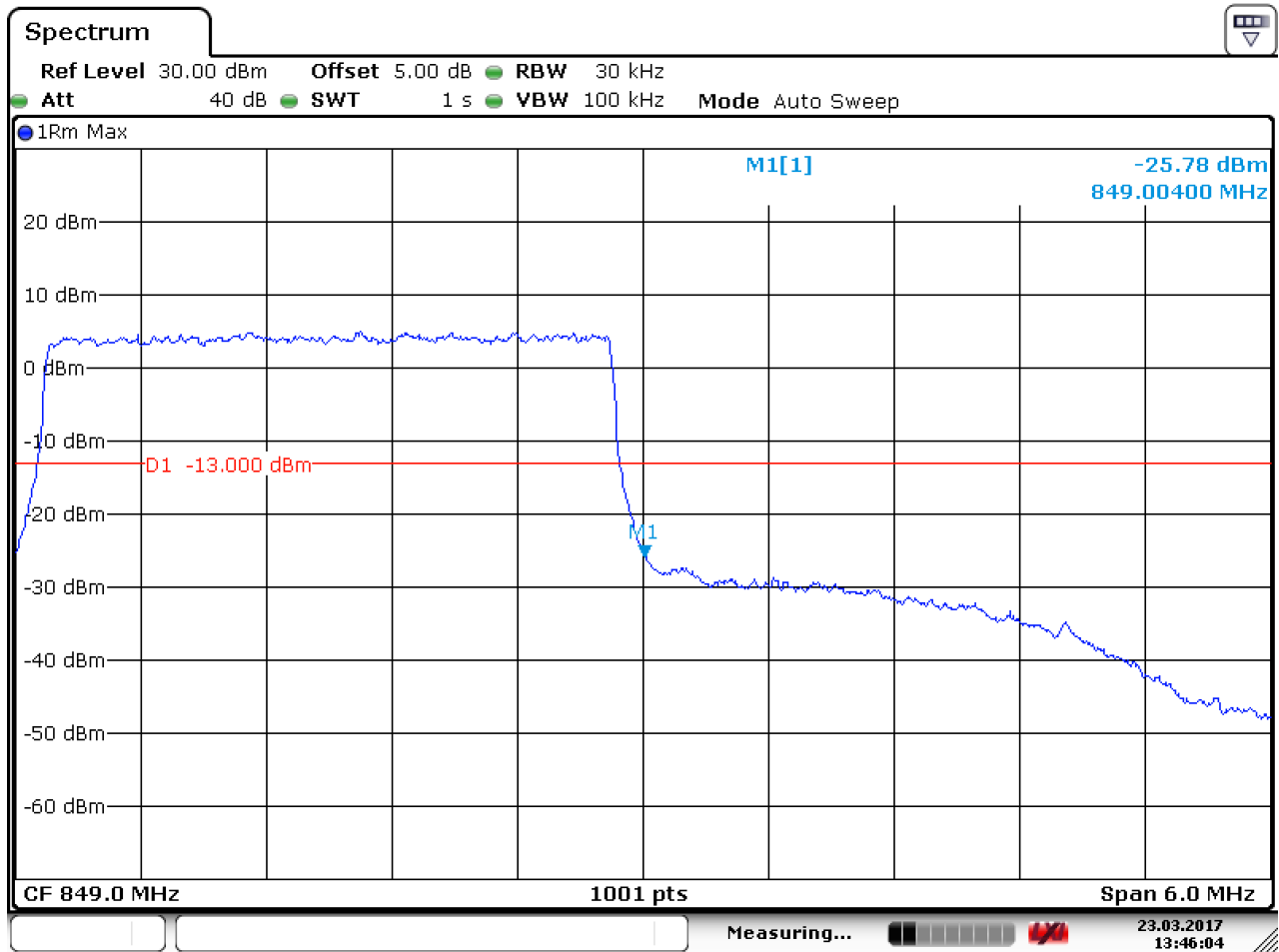


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5.1.1.3.3 Test RB=15RB



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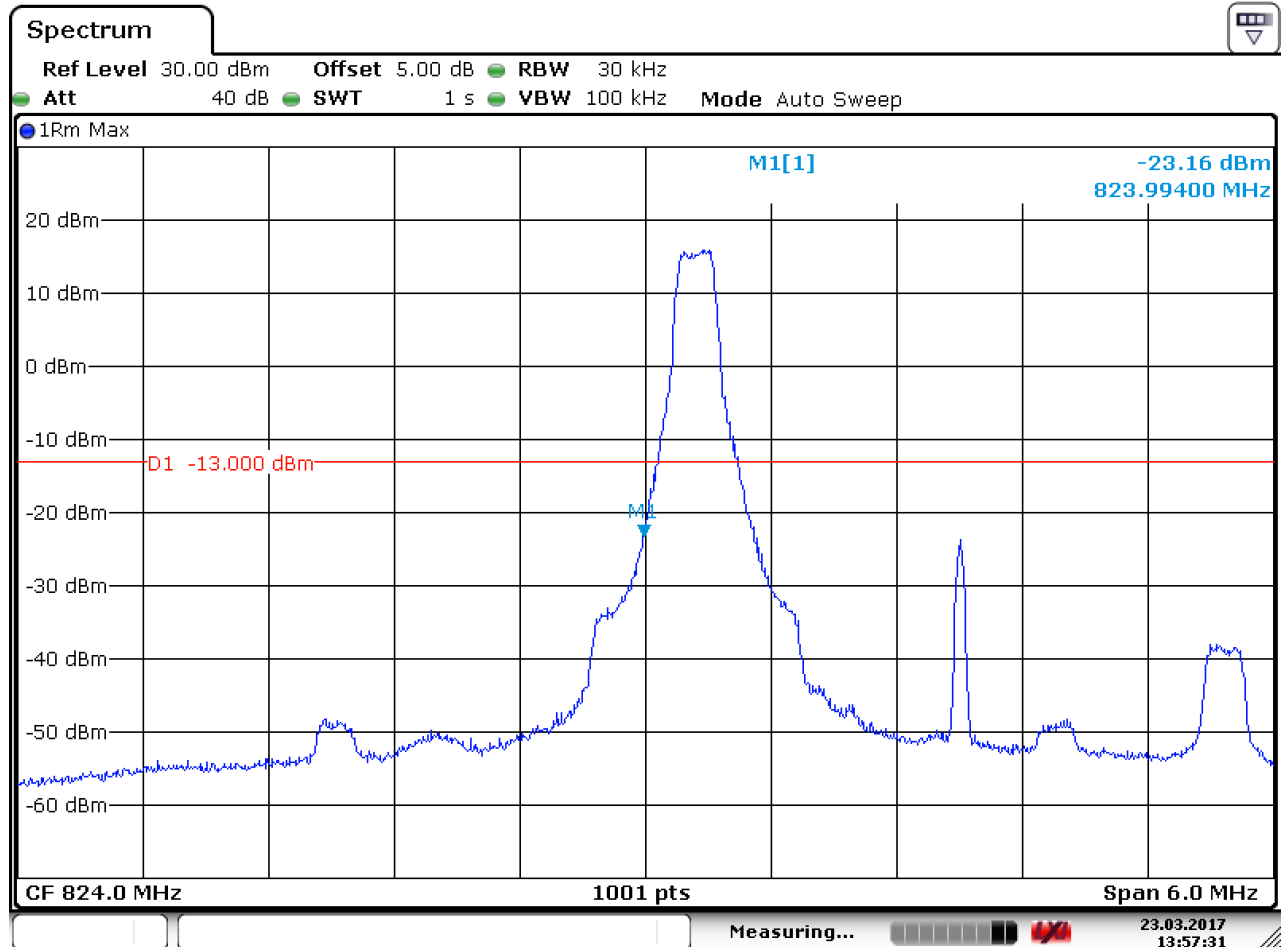
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5.1.1.4 Test Mode = LTE/TM2 3MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.2 Test RB=1RB

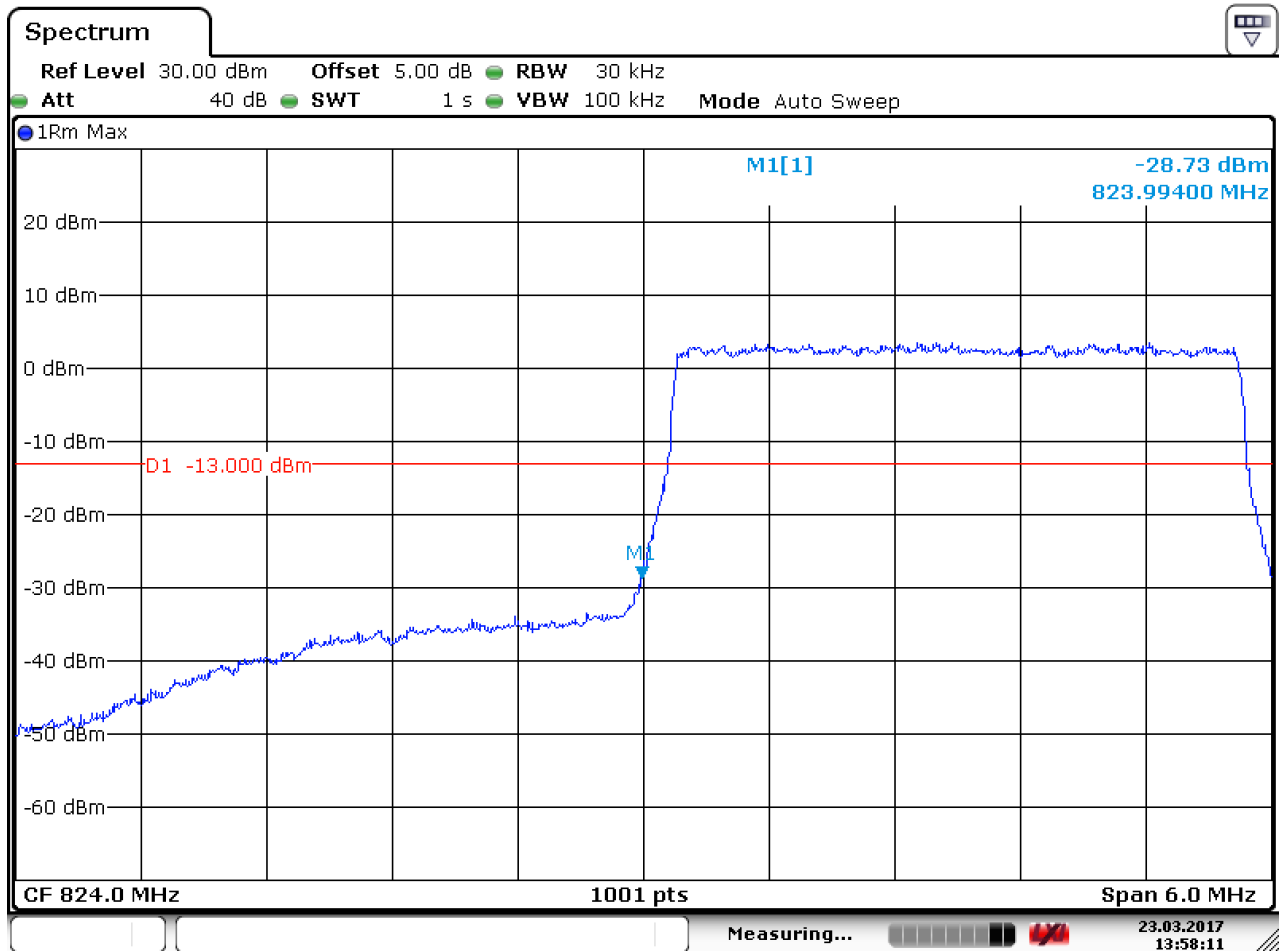


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5.1.1.4.2.1 Test RB=15RB



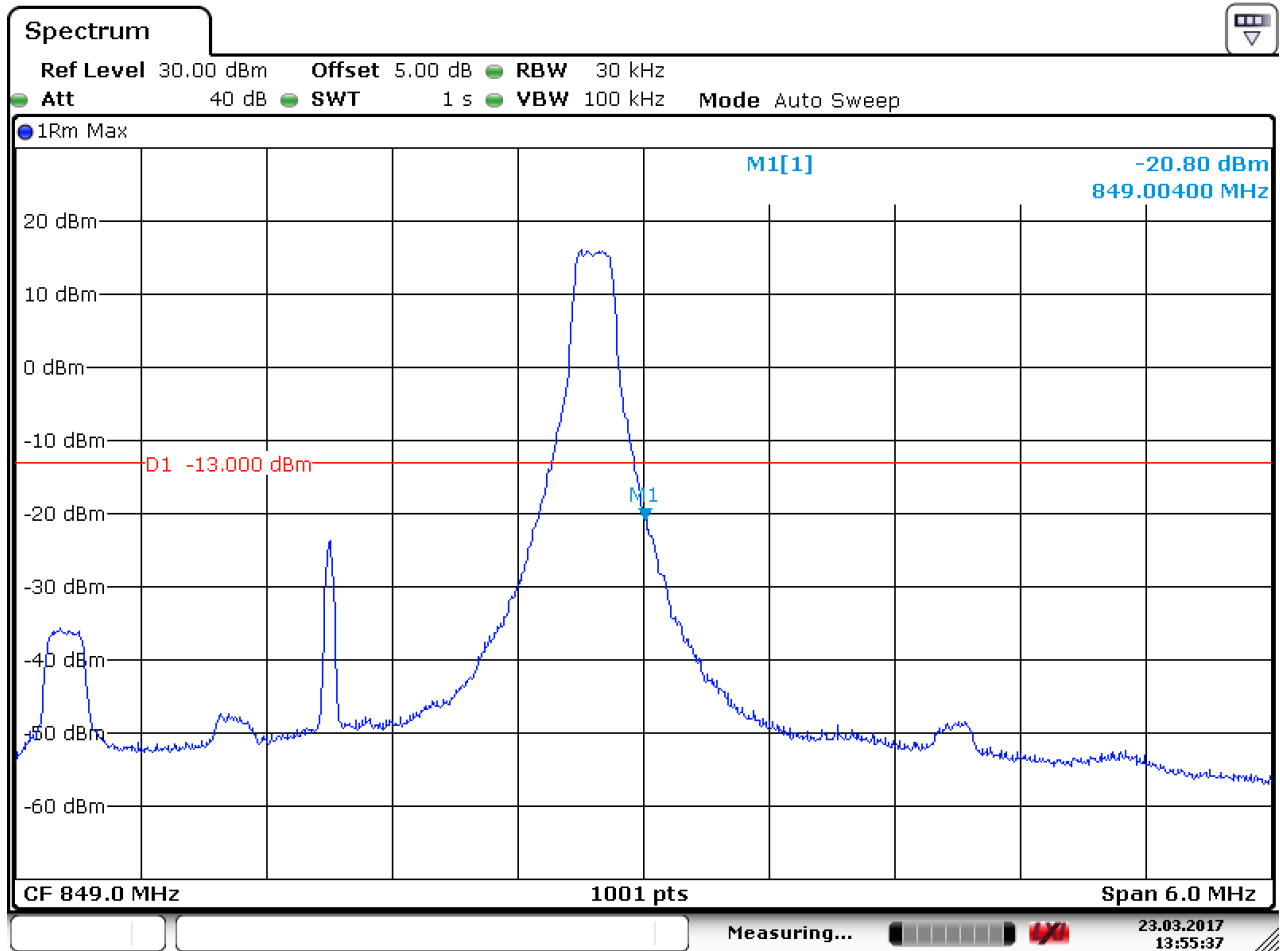
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5.1.1.4.3 Test Channel = HCH

5.1.1.4.3.1 Test RB=1RB

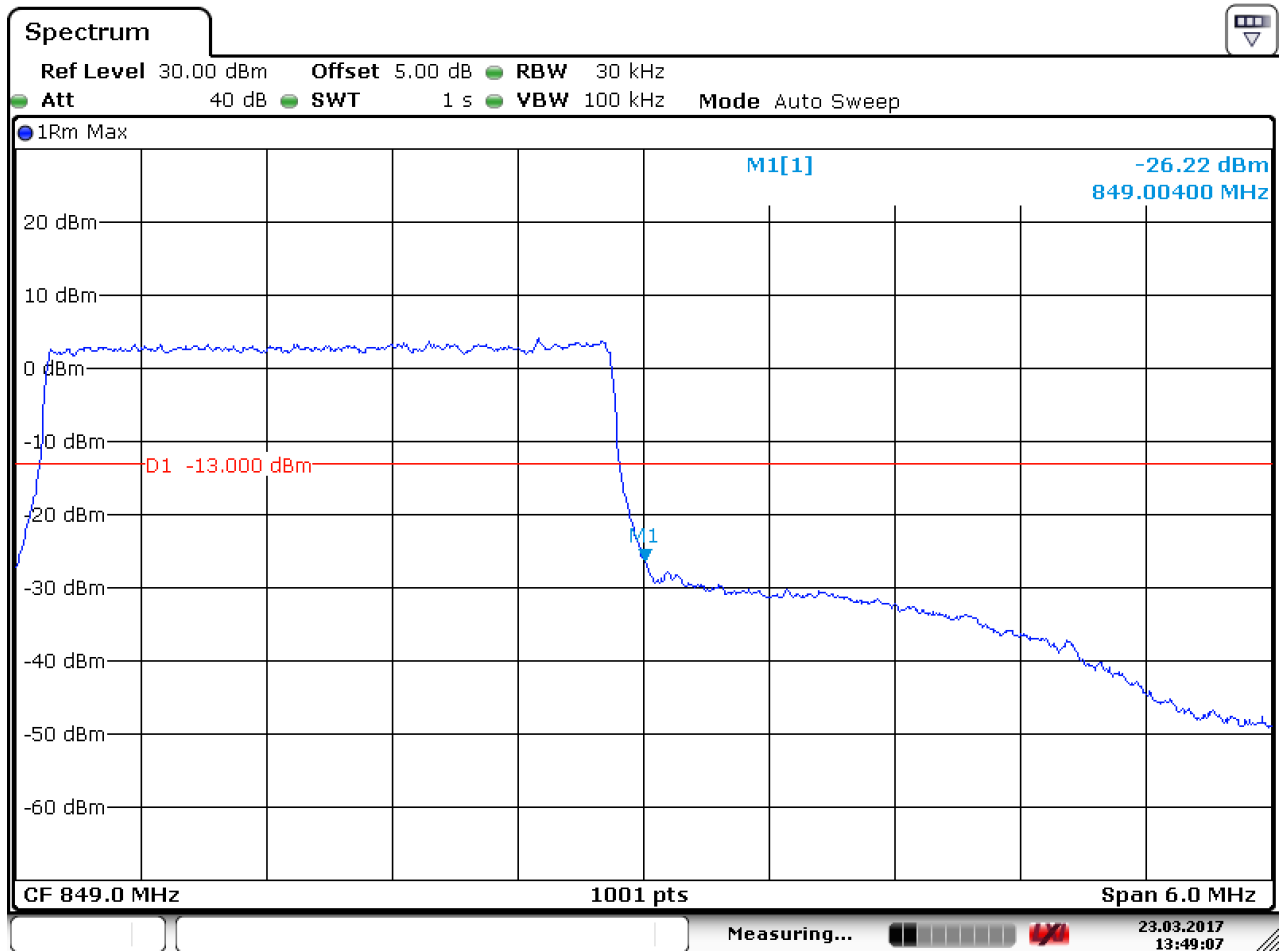


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5.1.1.4.3.2 Test RB=15RB



Date: 23.MAR.2017 13:49:07

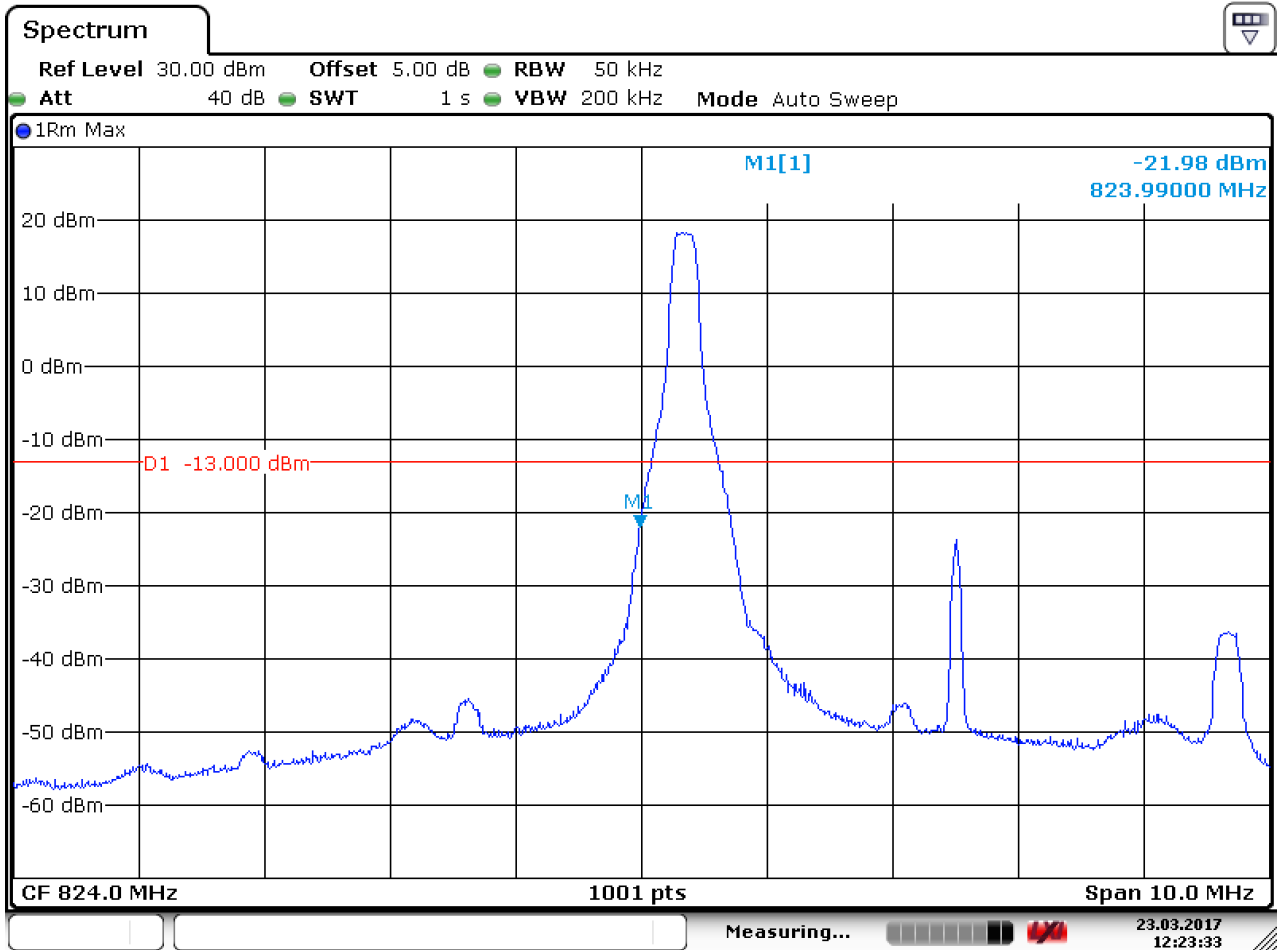
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5.1.1.5 Test Mode = LTE/TM1 5MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

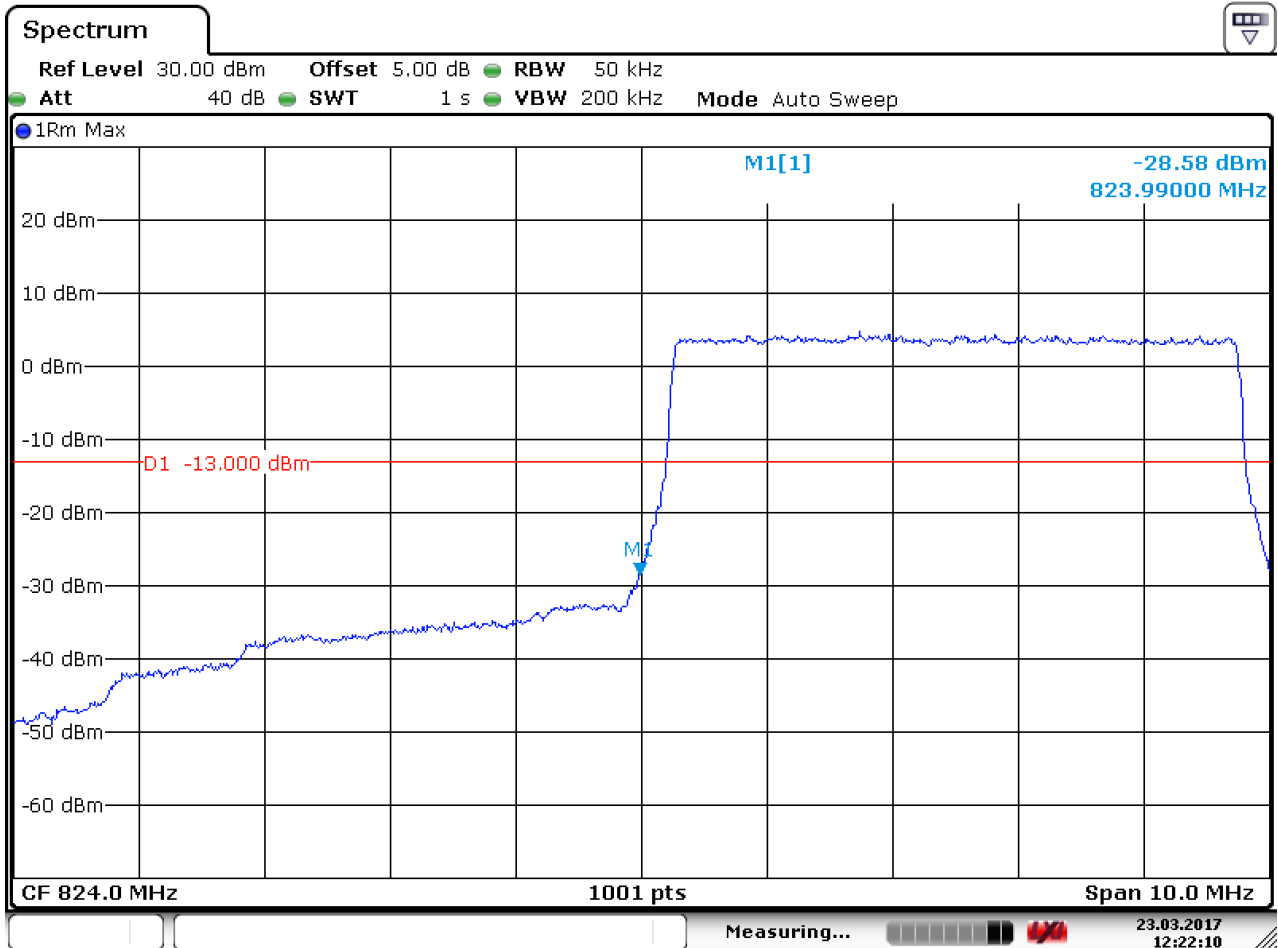


Date: 23.MAR.2017 12:23:33

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5.1.1.5.1.2 Test RB=25RB



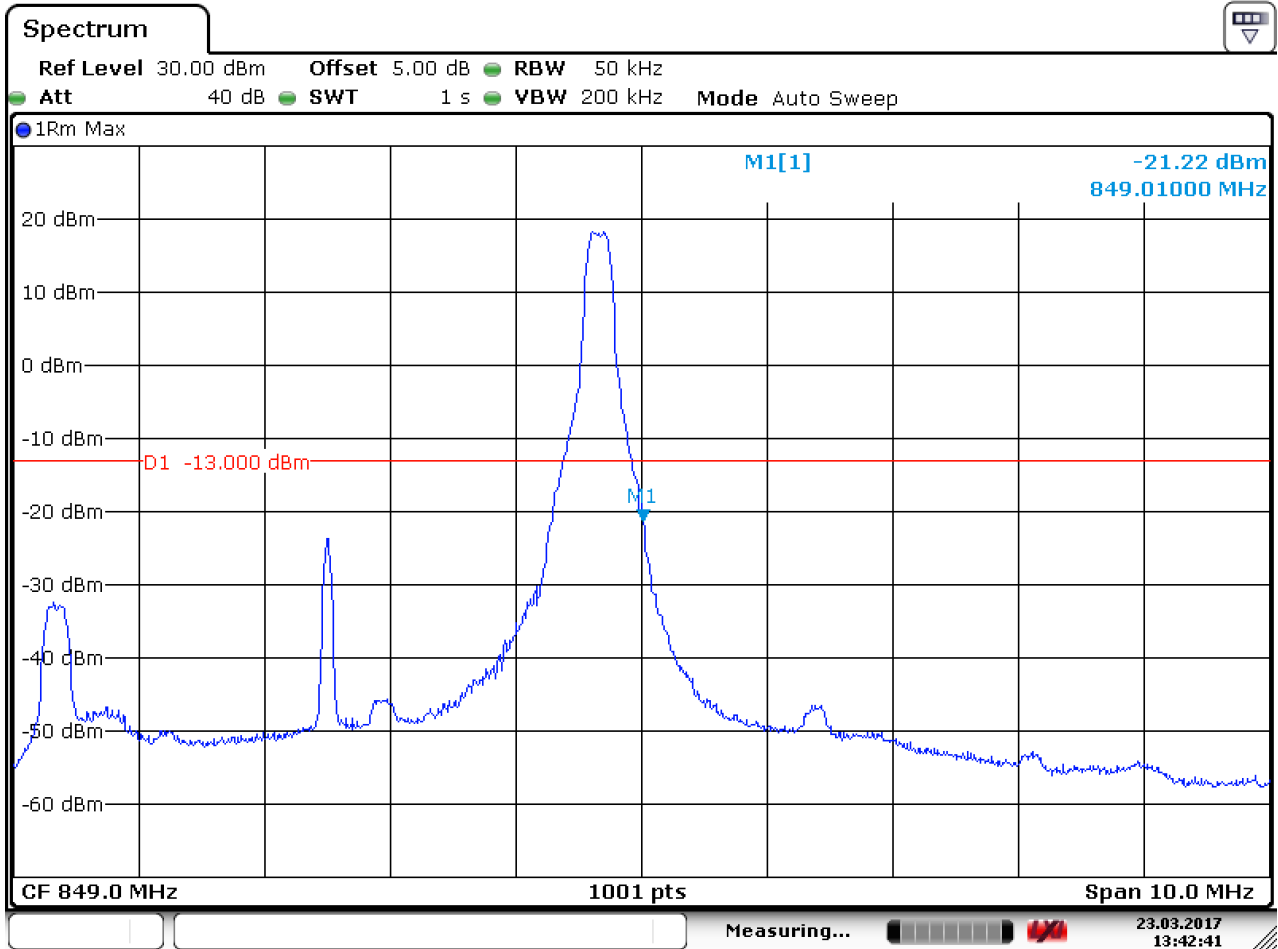
Date: 23.MAR.2017 12:22:10

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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB

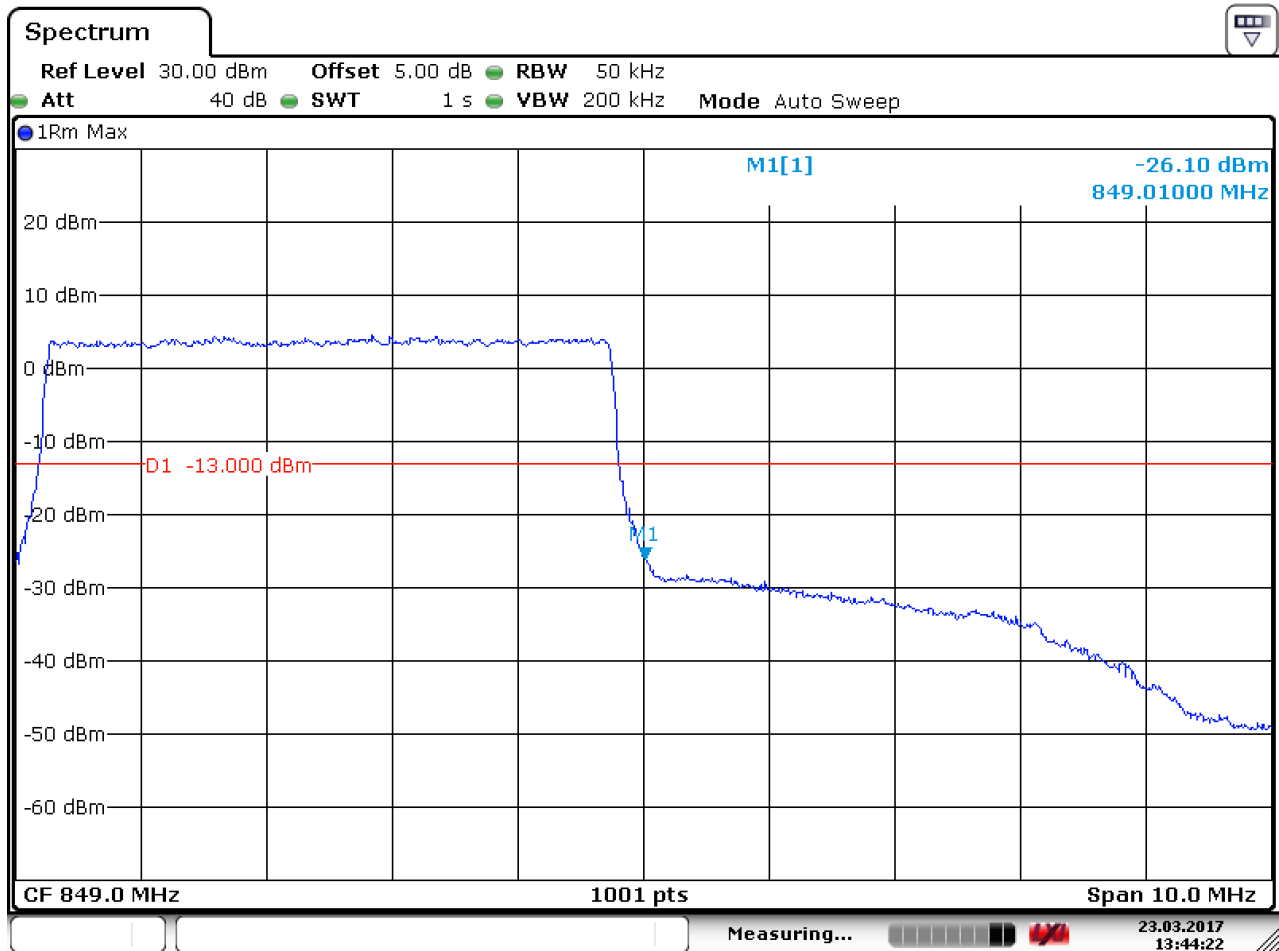


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5.1.1.5.2.2 Test RB=25RB



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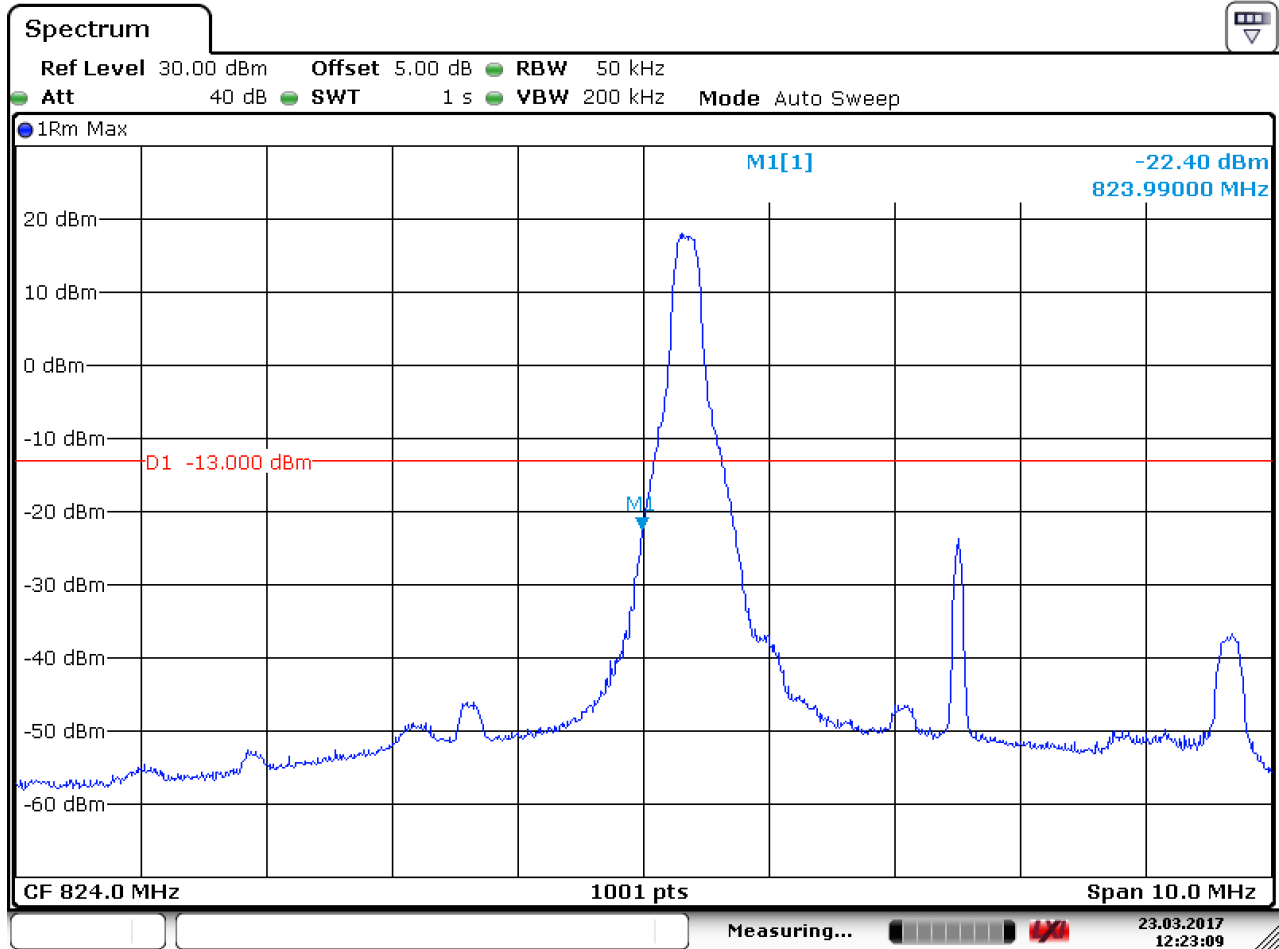
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5.1.1.6 Test Mode = LTE/TM2 5MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB

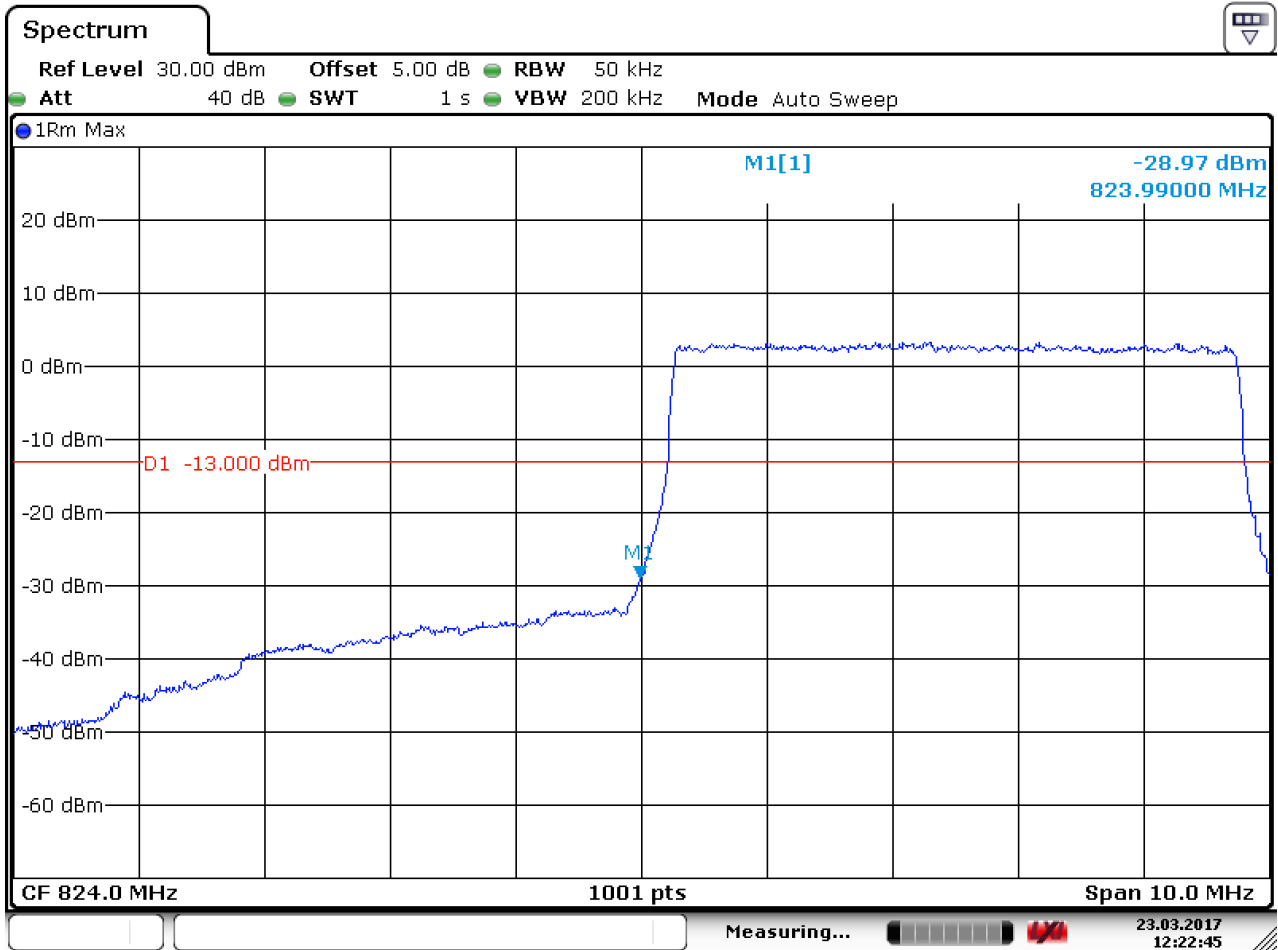


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5.1.1.6.1.2 Test RB=25RB

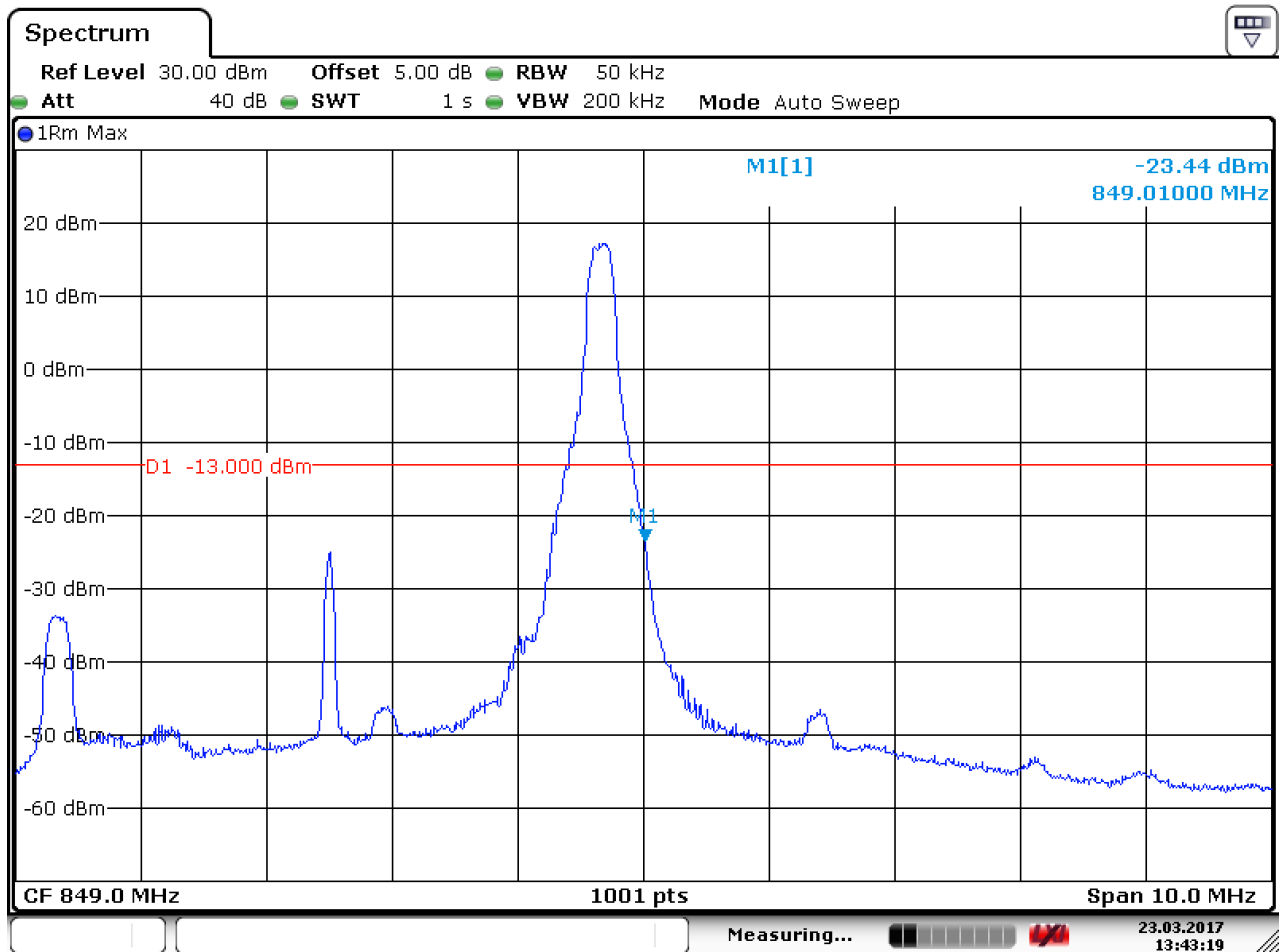


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5.1.1.6.2 Test Channel = HCH

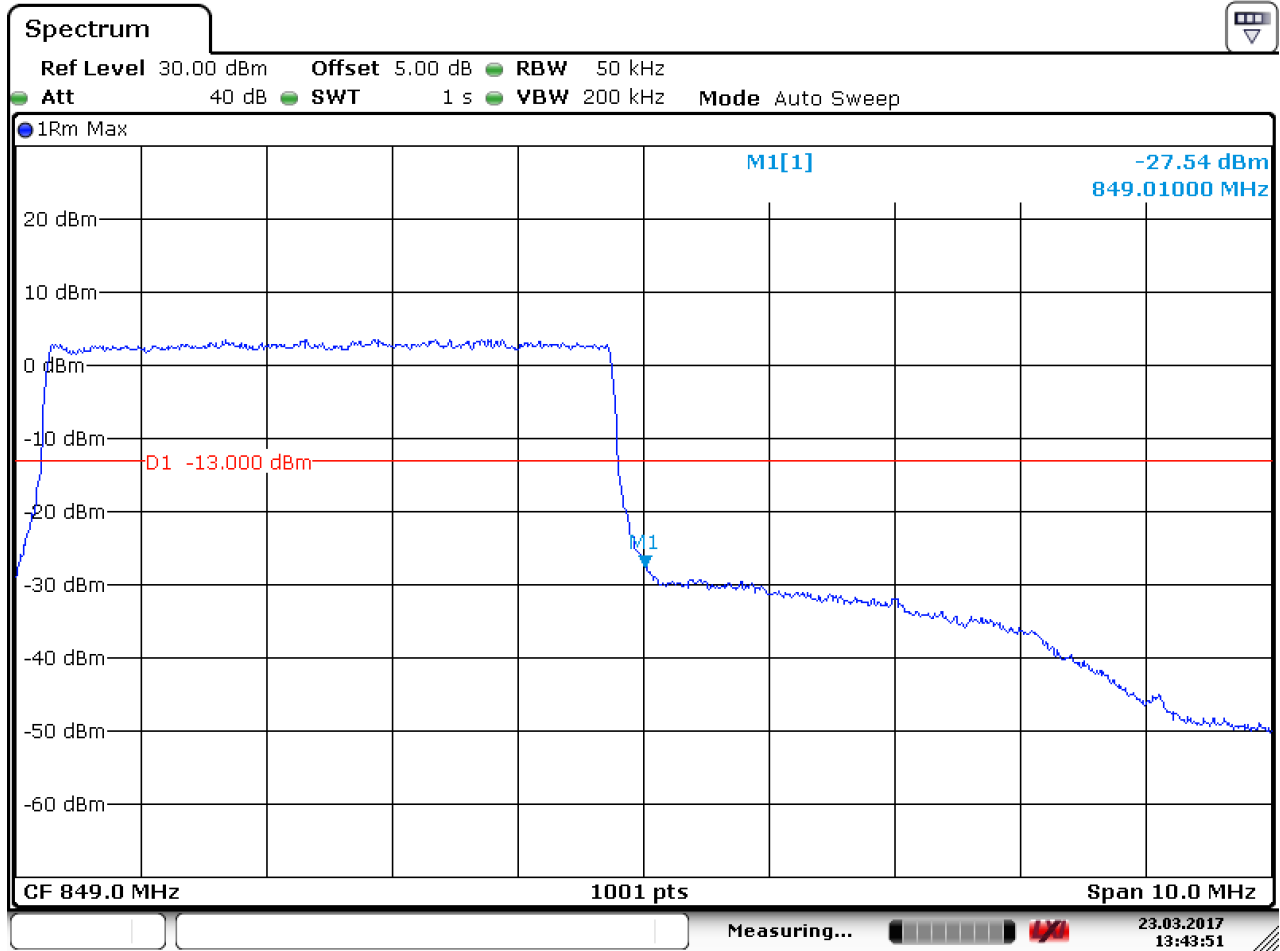
5.1.1.6.2.1 Test RB=1RB



Date: 23.MAR.2017 13:43:20



5.1.1.6.2.2 Test RB=25RB



Date: 23.MAR.2017 13:43:51

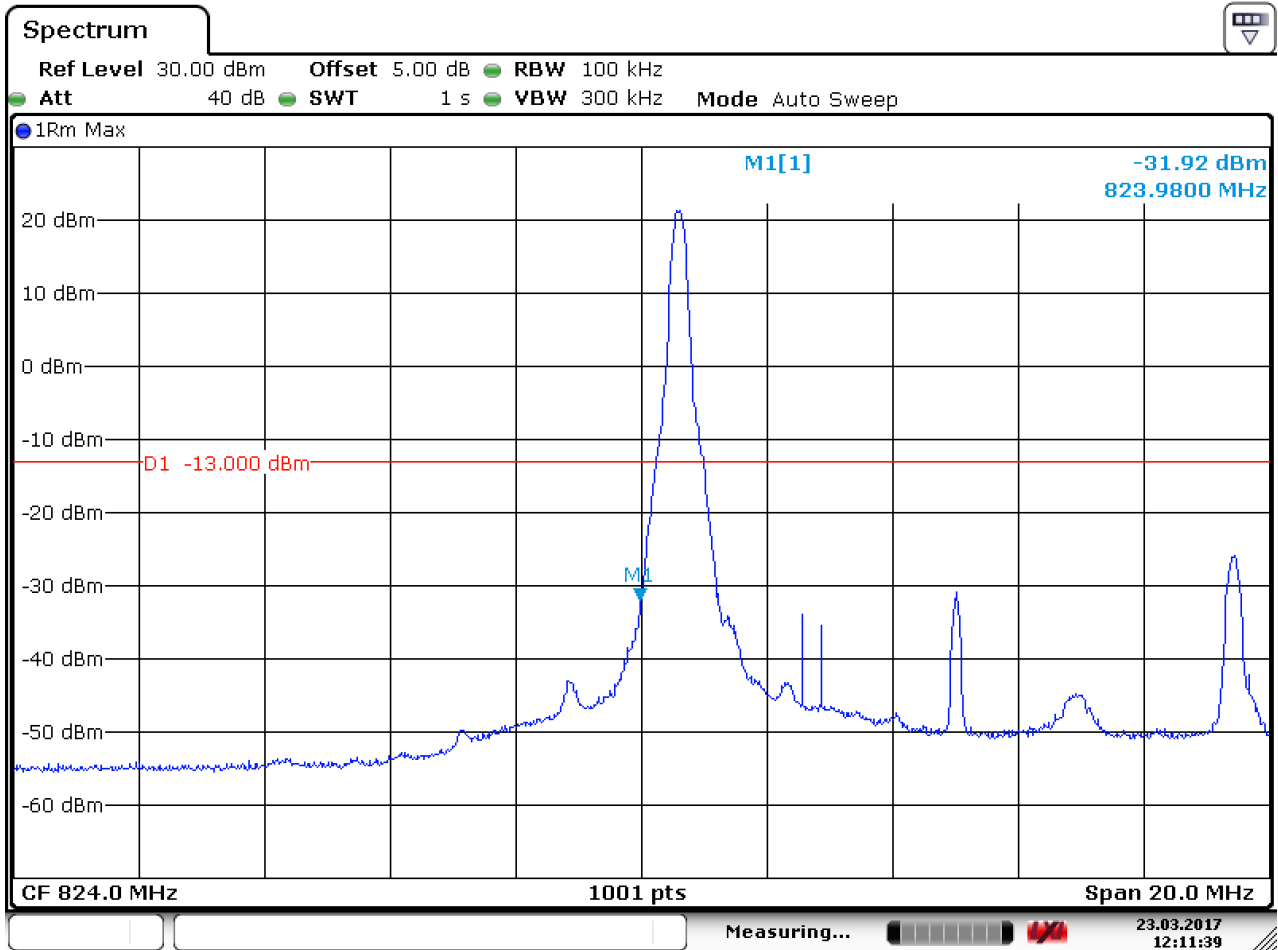
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5.1.1.7 Test Mode = LTE/TM1 10MHz

5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB

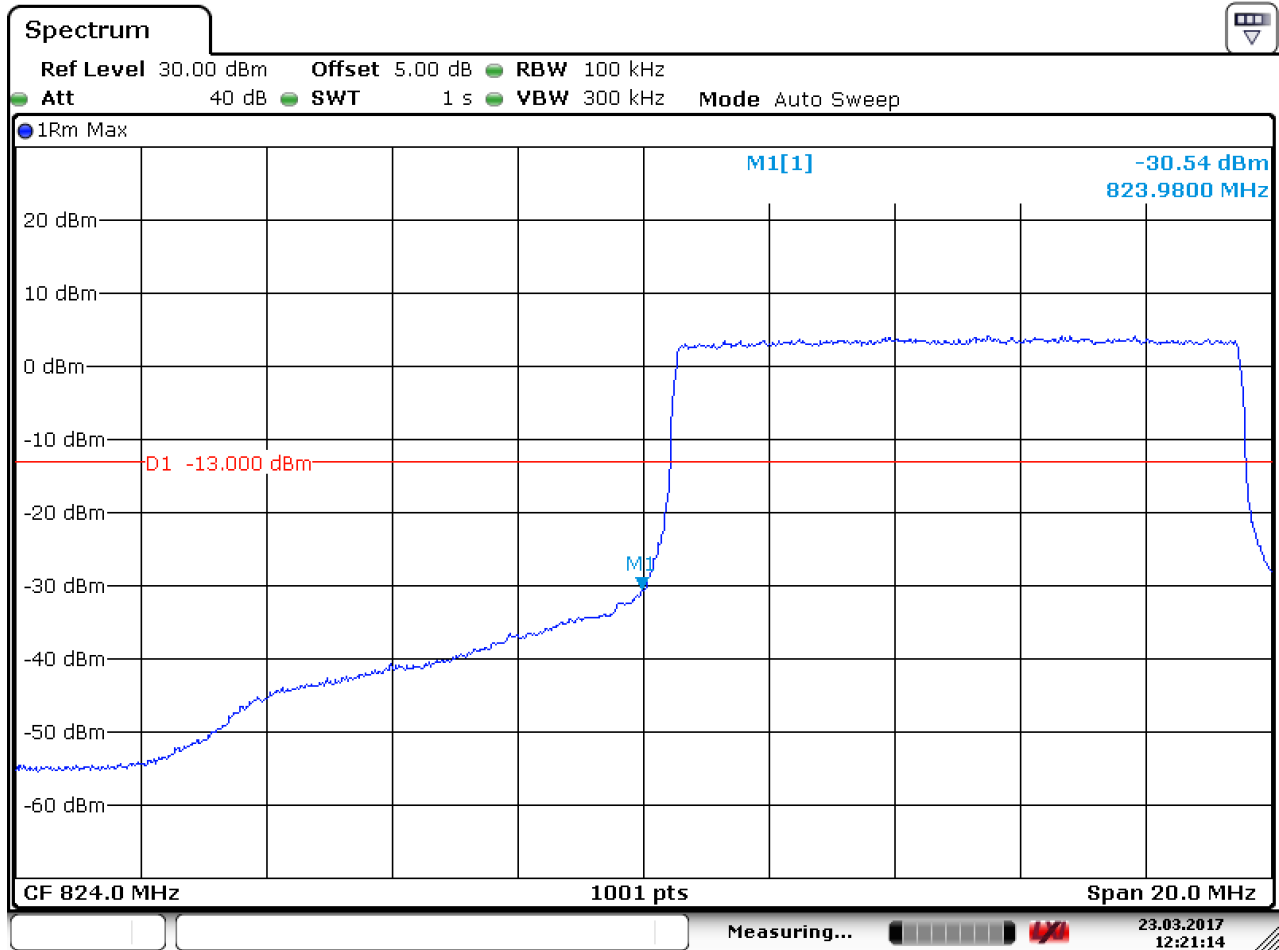


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5.1.1.7.1.2 Test RB=50RB



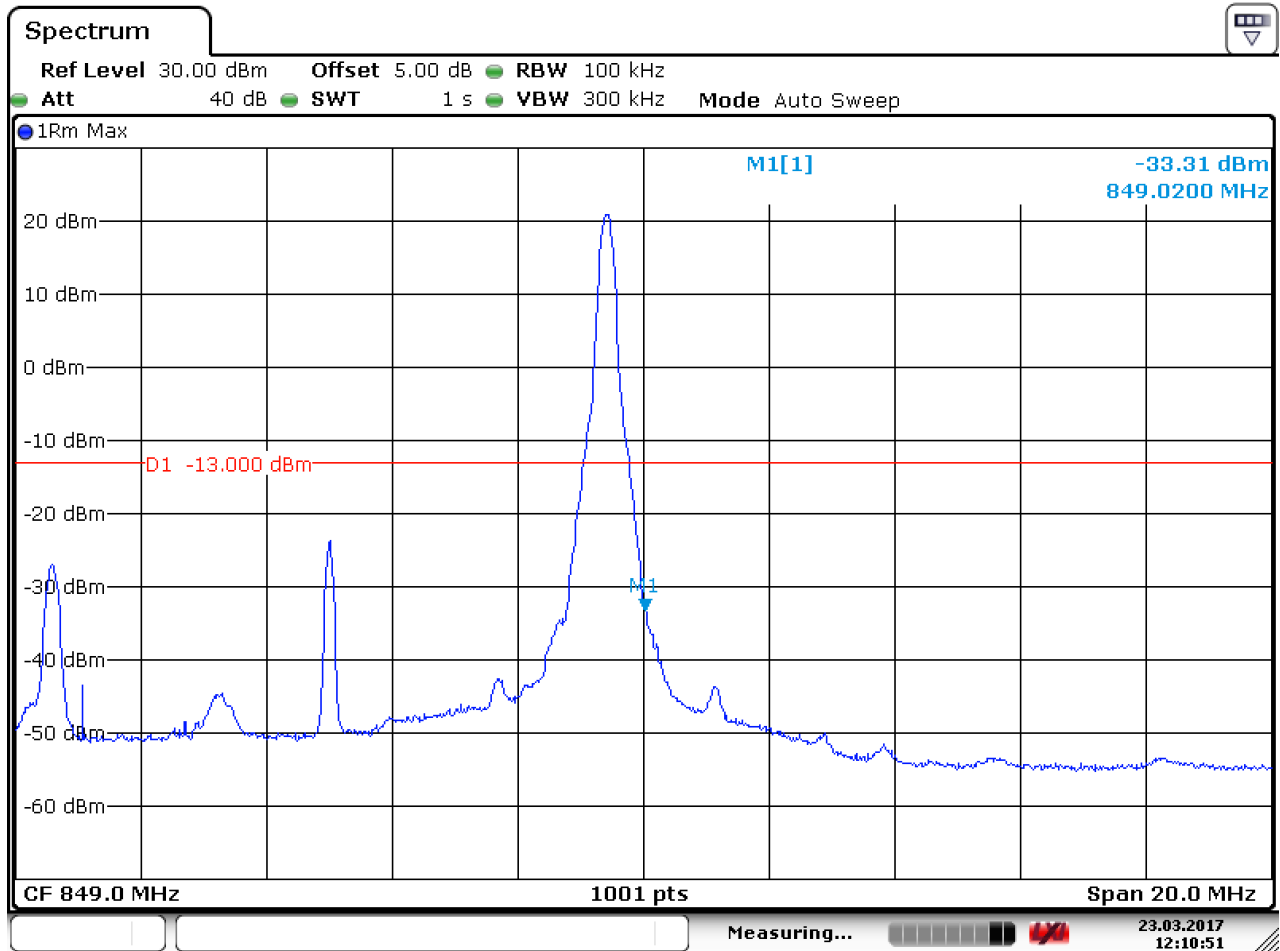
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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB

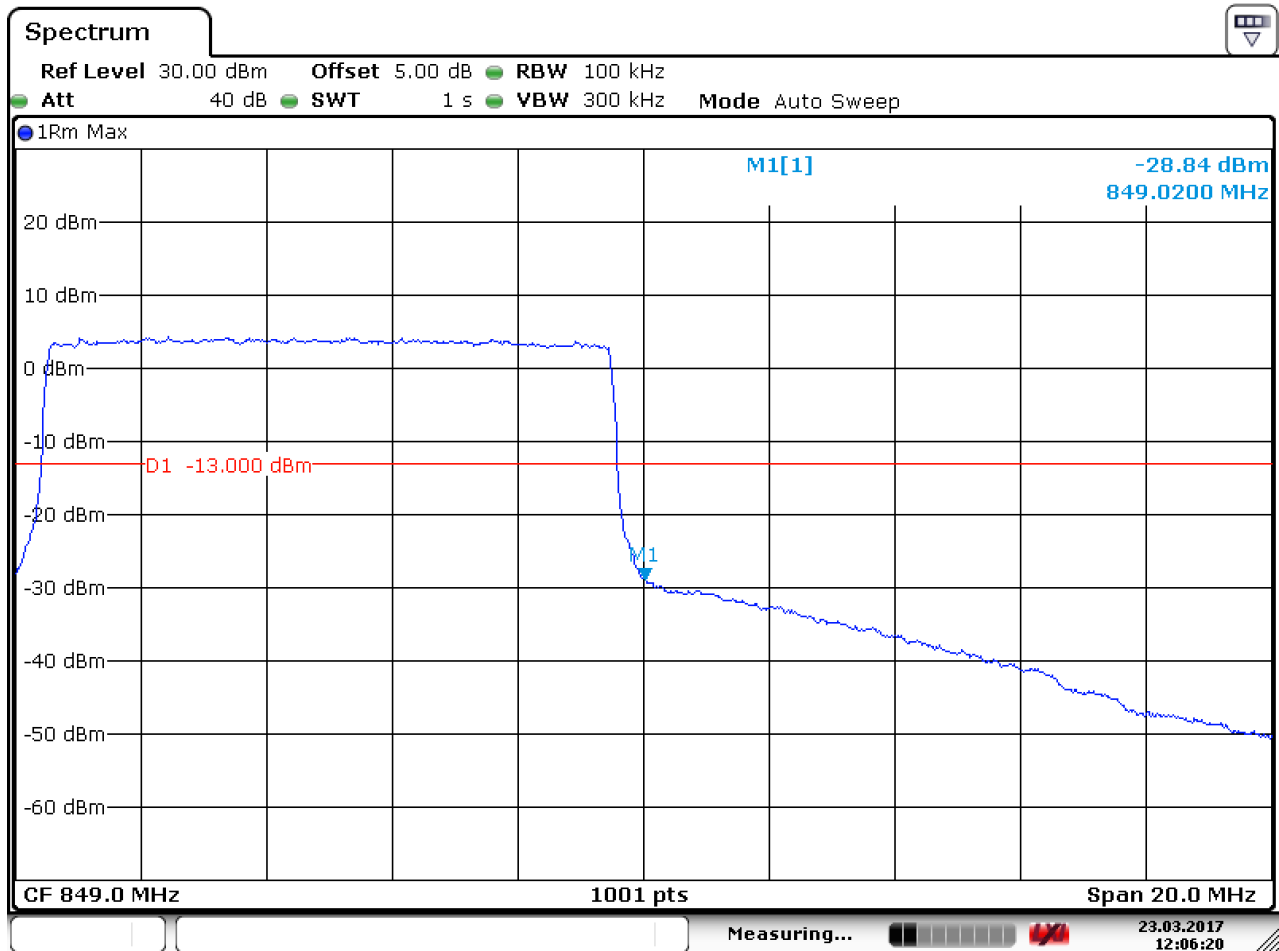


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5.1.1.7.2.2 Test RB=50RB



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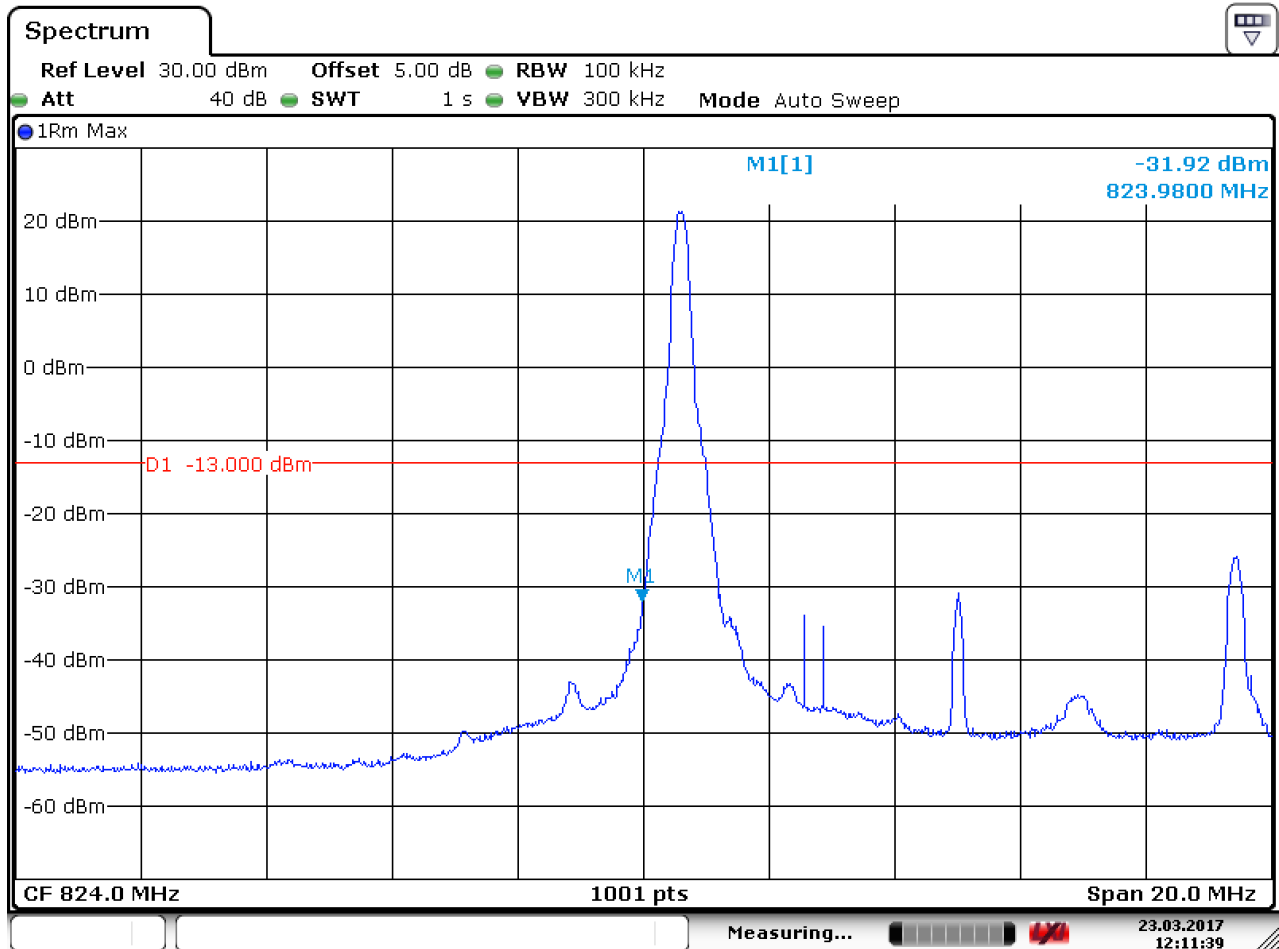
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5.1.1.8 Test Mode = LTE/TM2 10MHz

5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB

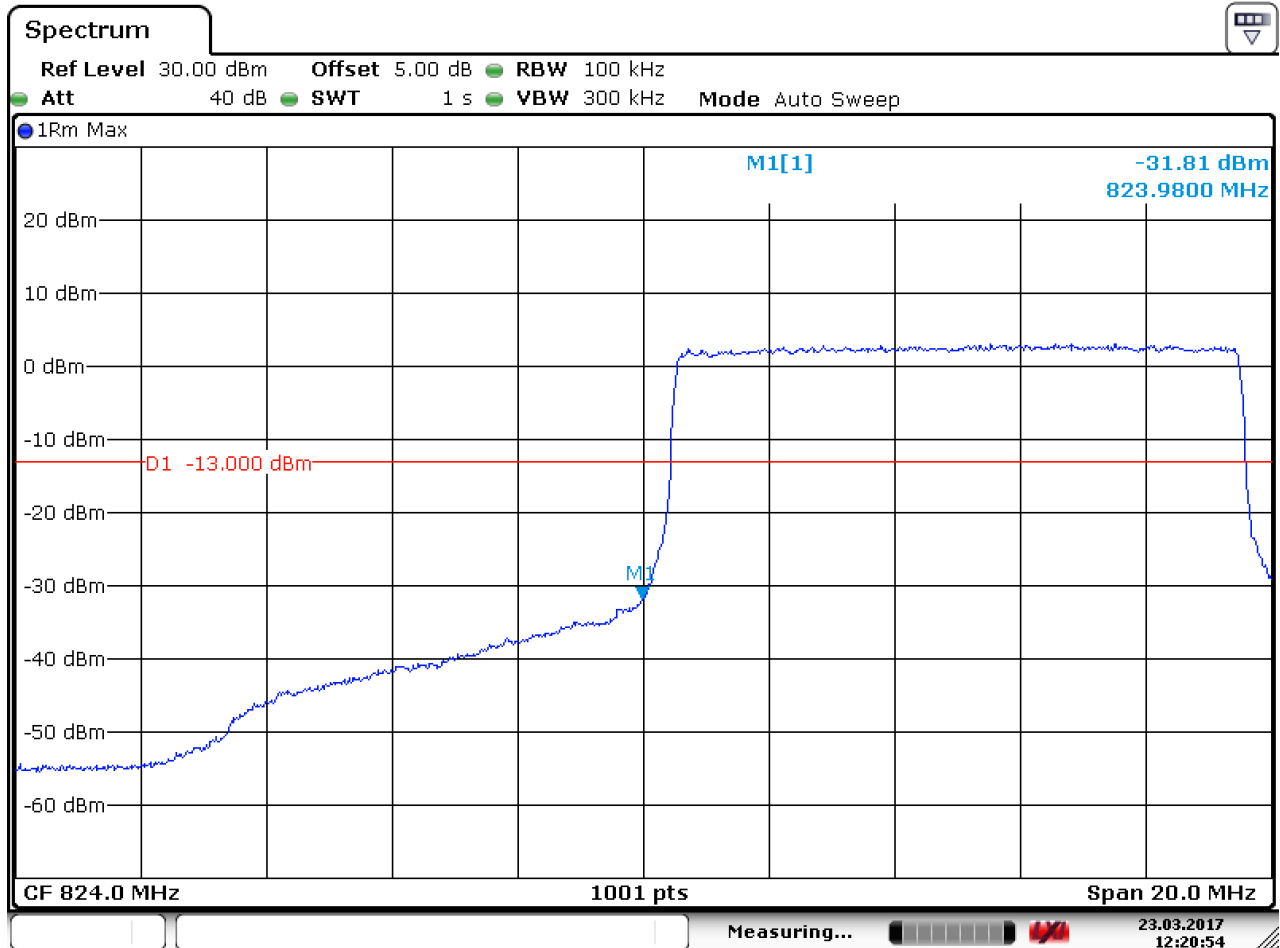


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5.1.1.8.1.2 Test RB=50RB



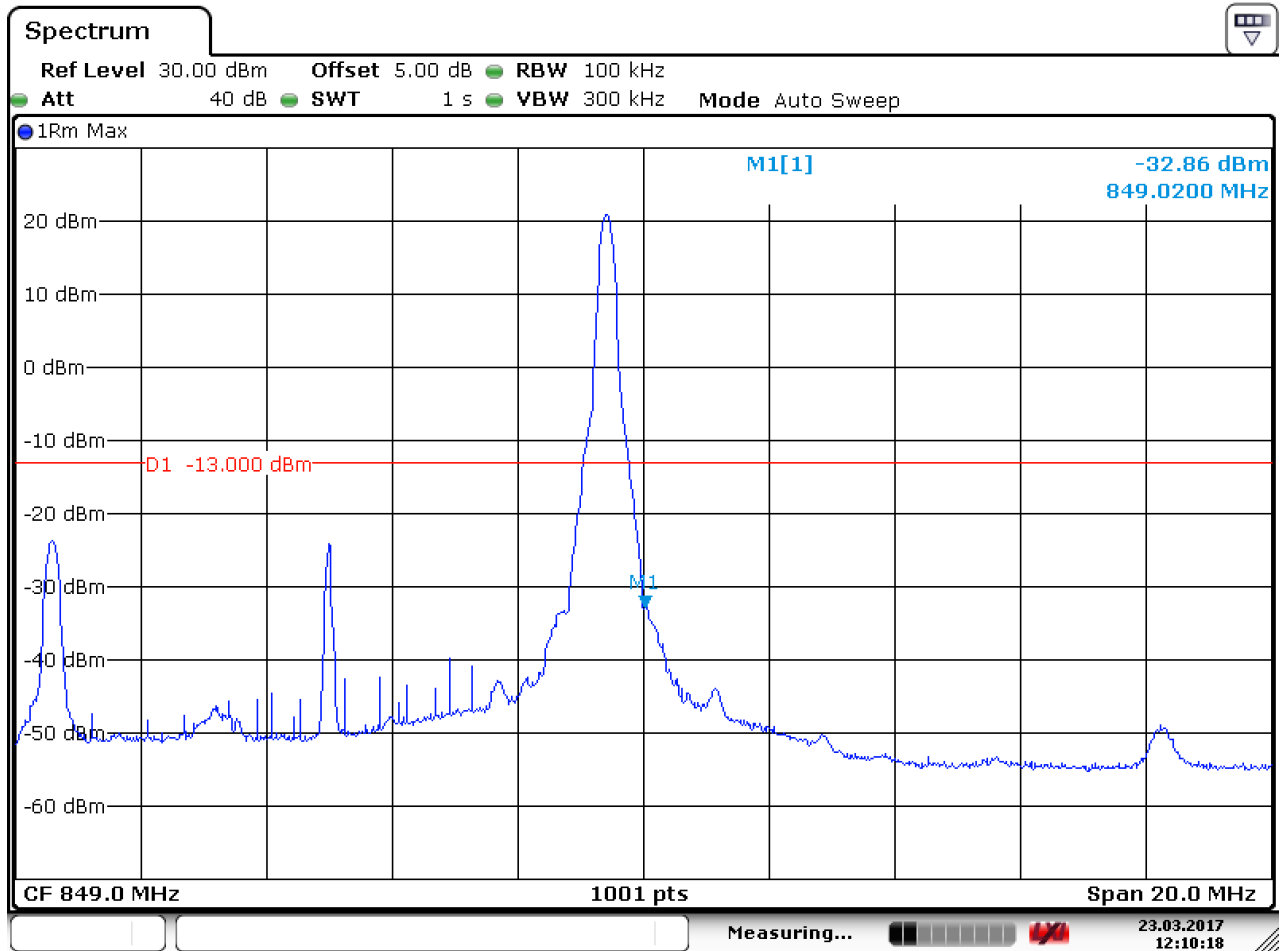
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5.1.1.8.2 Test Channel = HCH

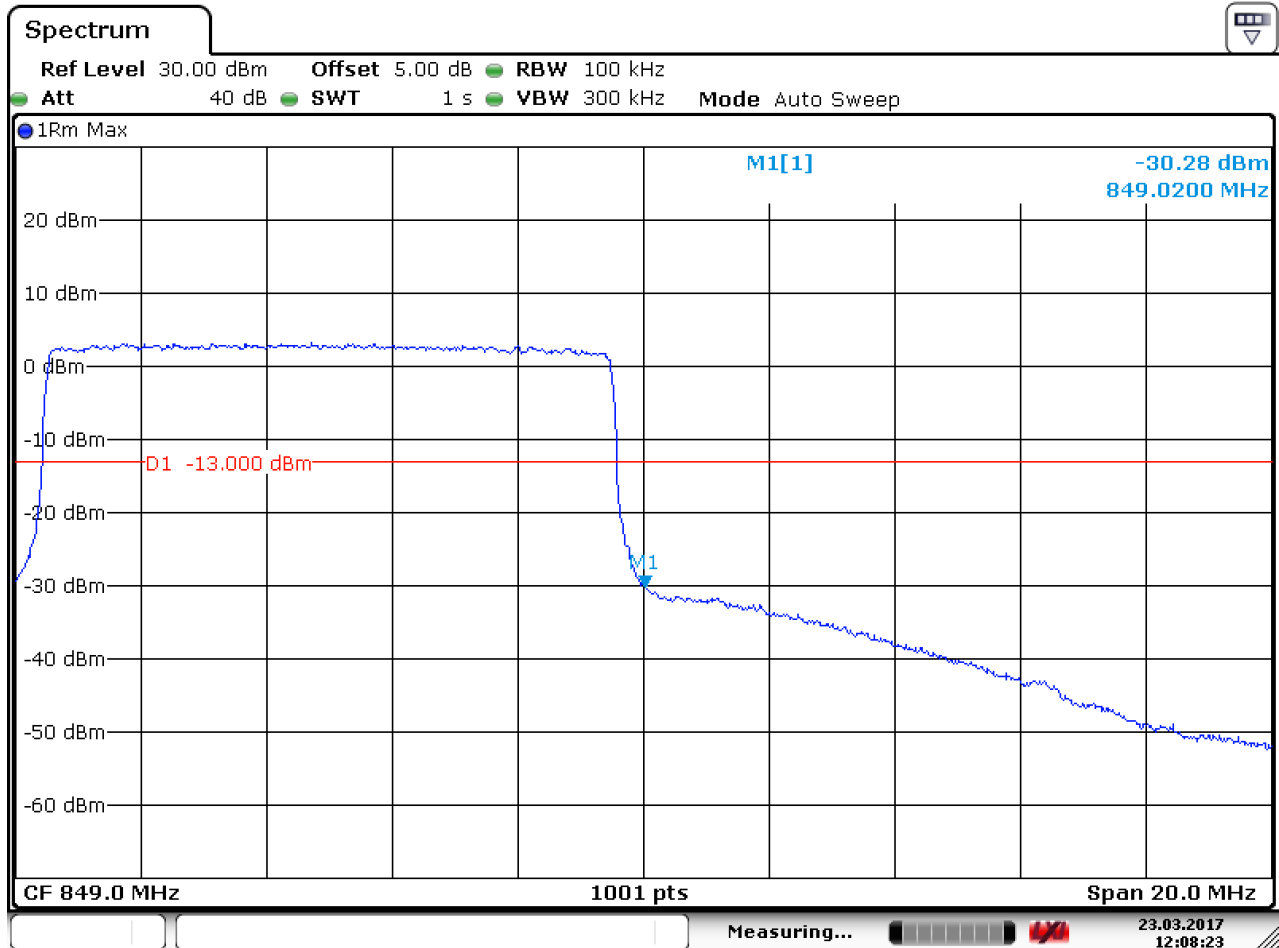
5.1.1.8.2.1 Test RB=1RB



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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.

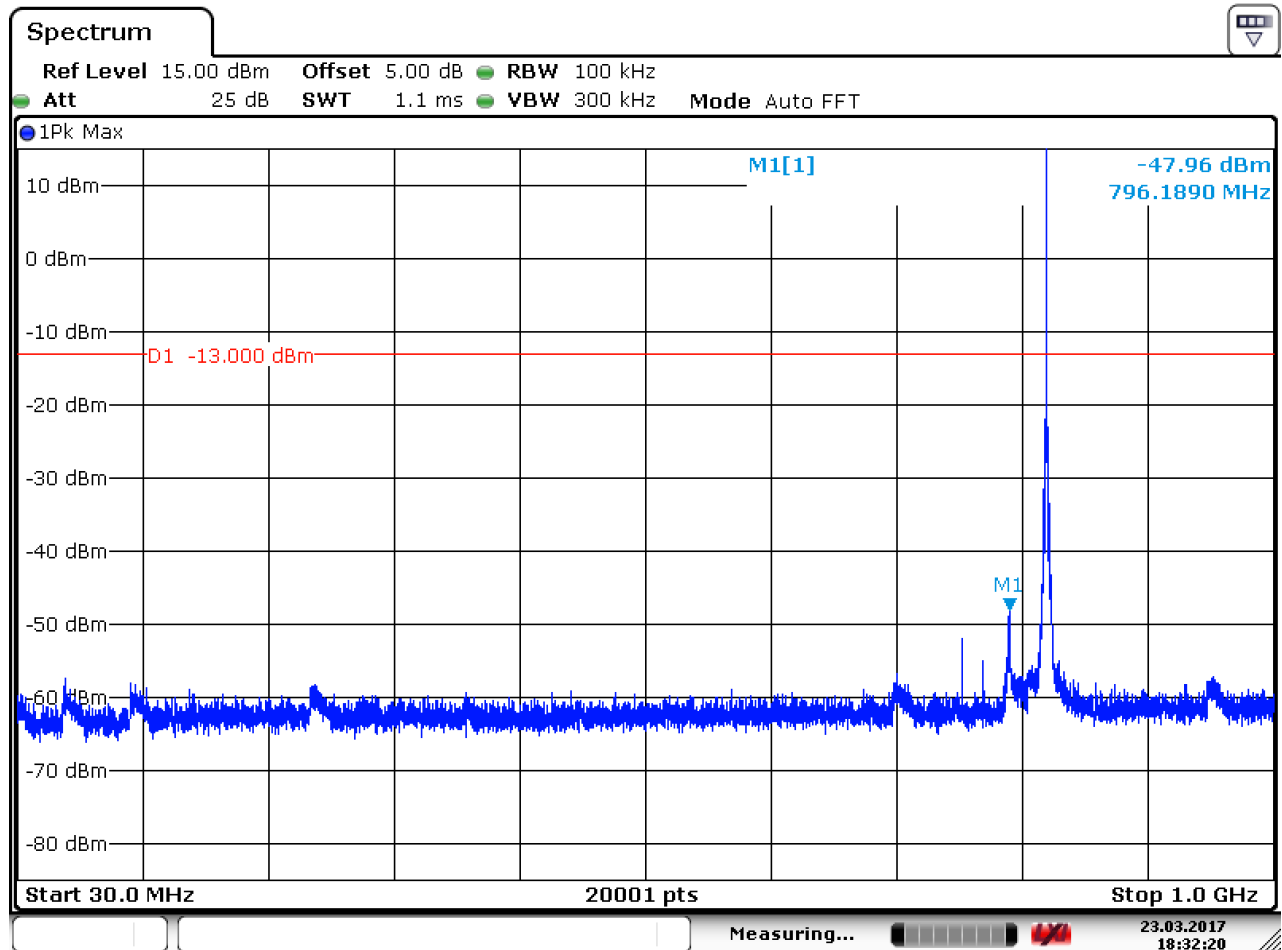
Part I - Test Plots

6.1 For LTE

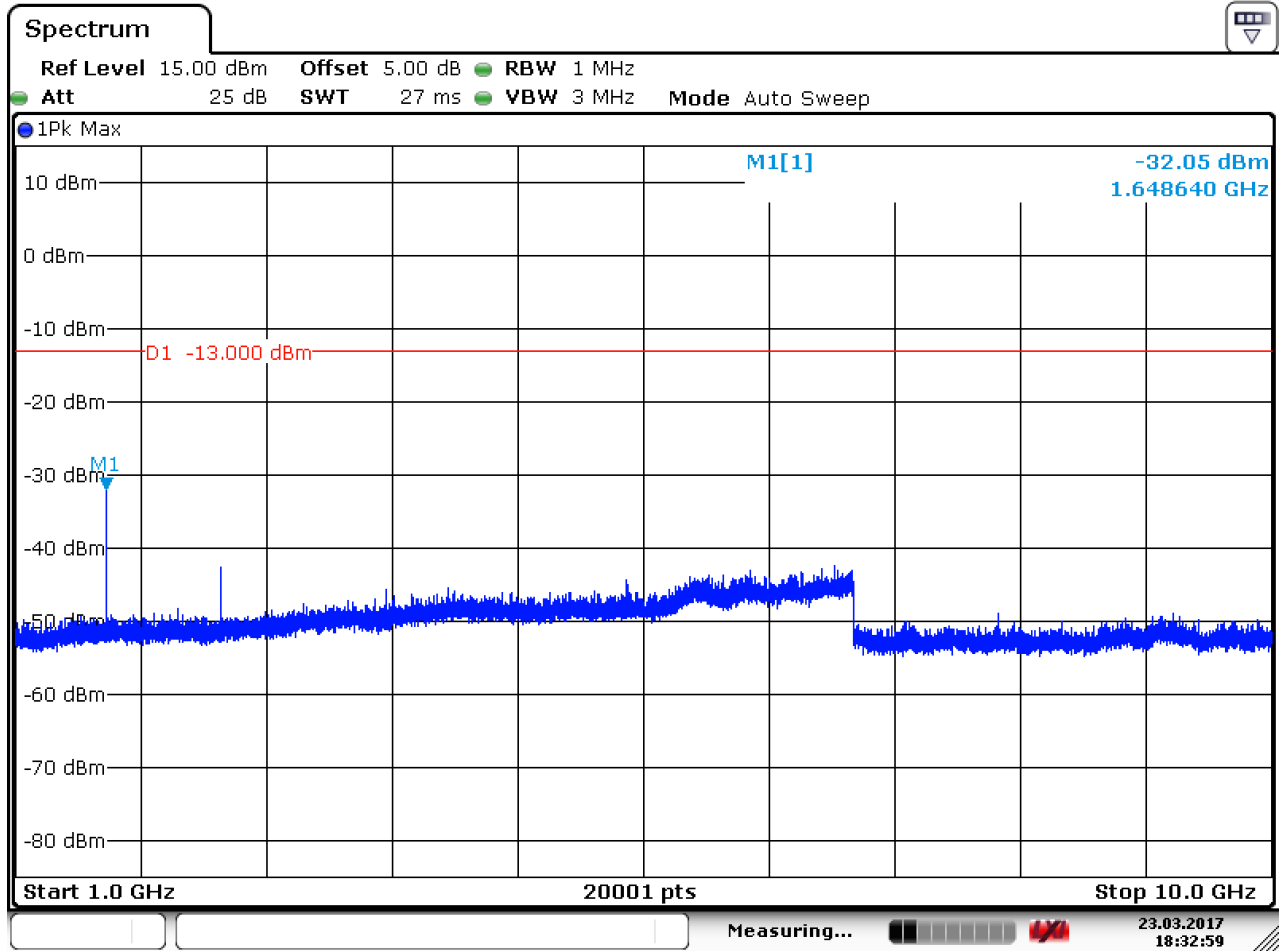
6.1.1 Test Band = LTE band5

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

6.1.1.1.1 Test Channel = LCH



Date: 23.MAR.2017 18:32:20

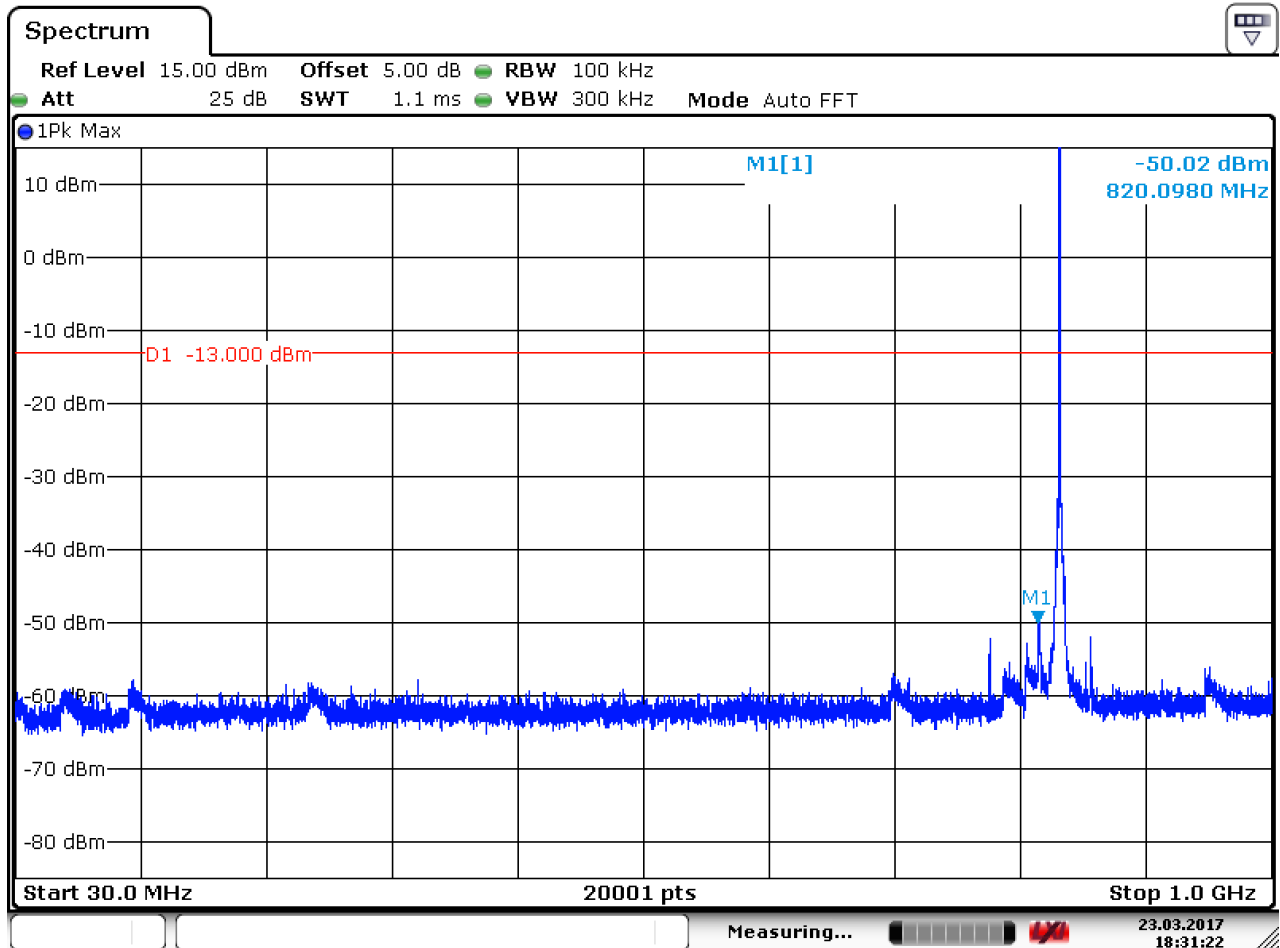


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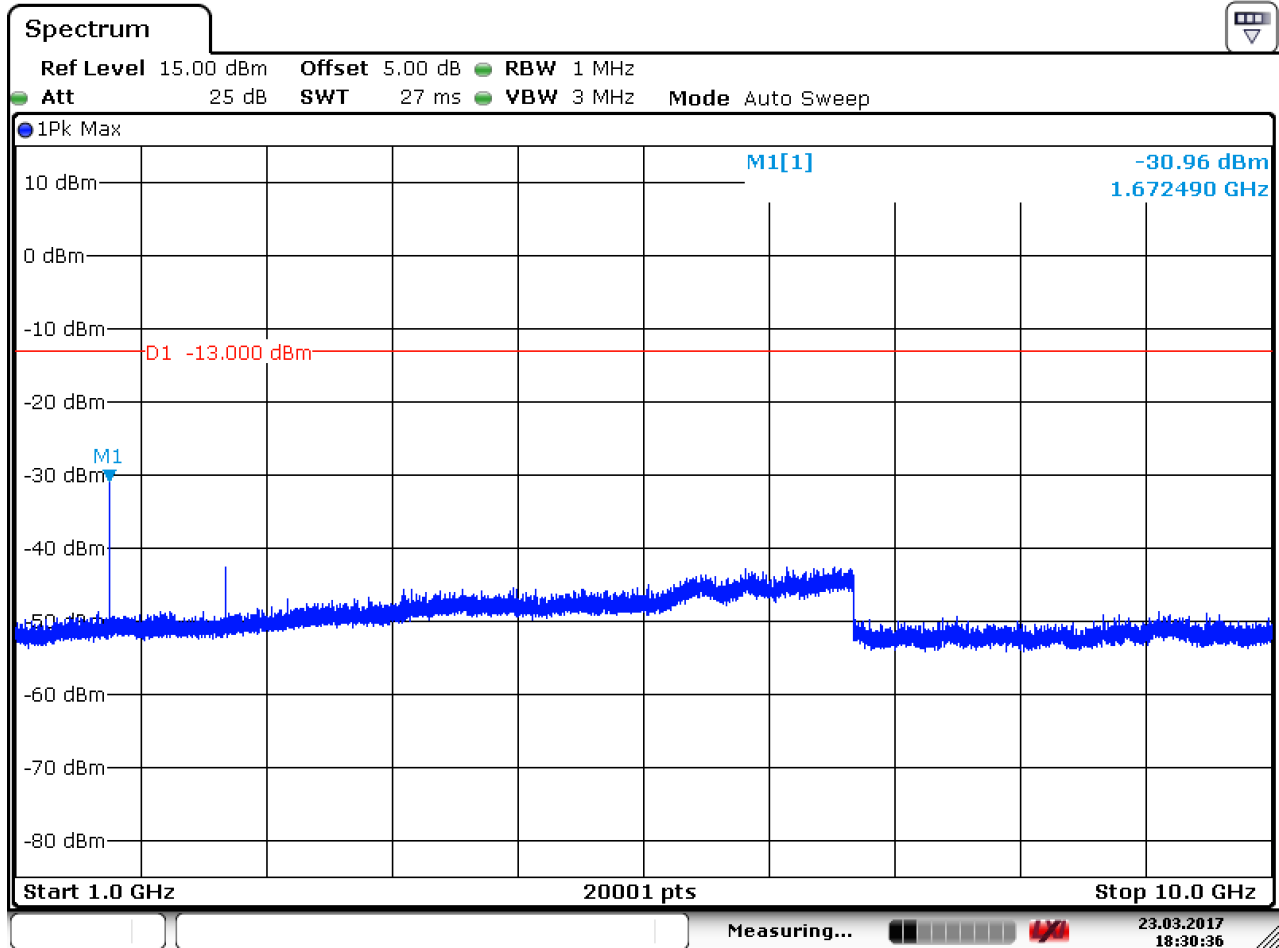


6.1.1.1.2 Test Channel = MCH



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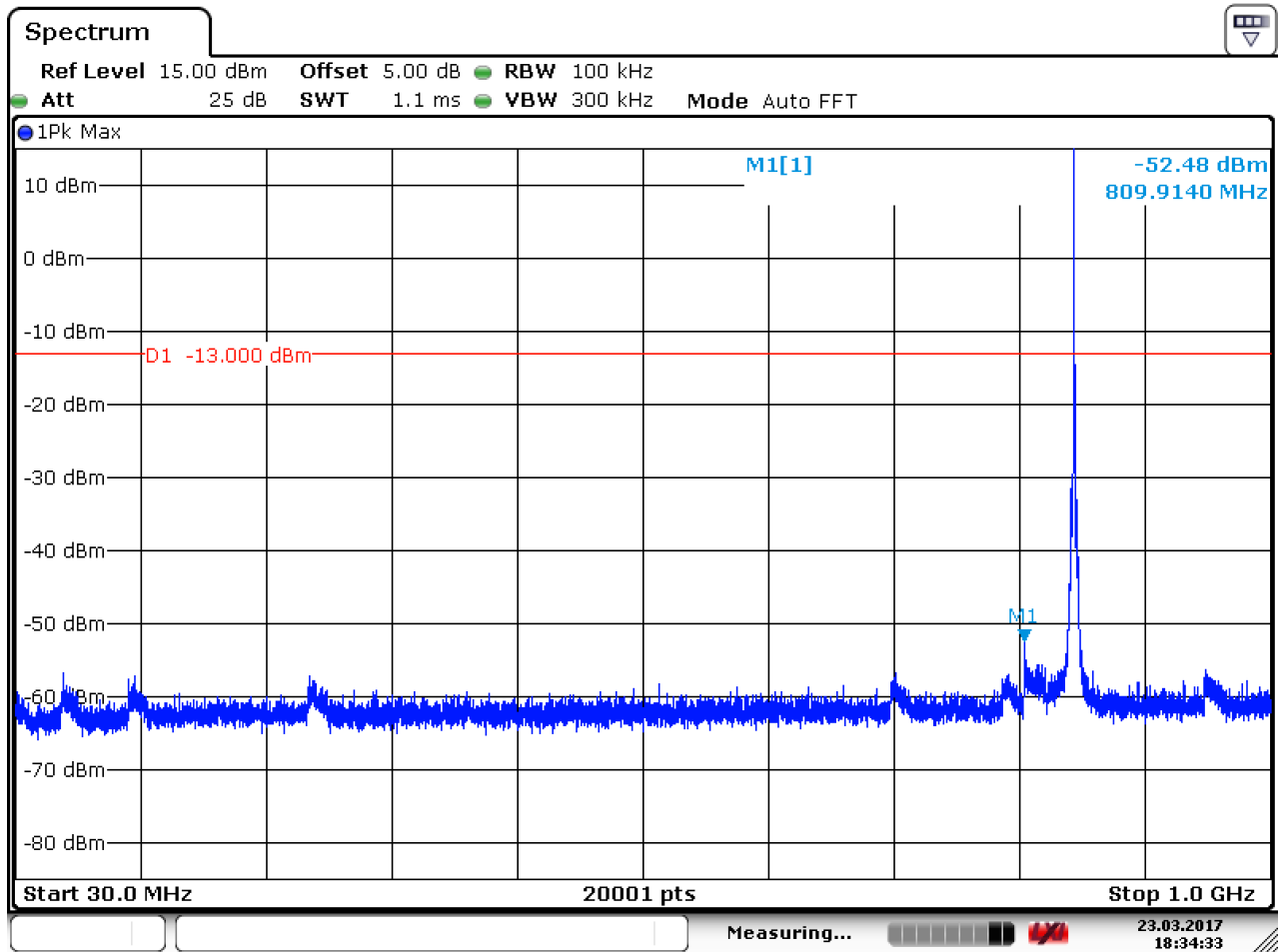


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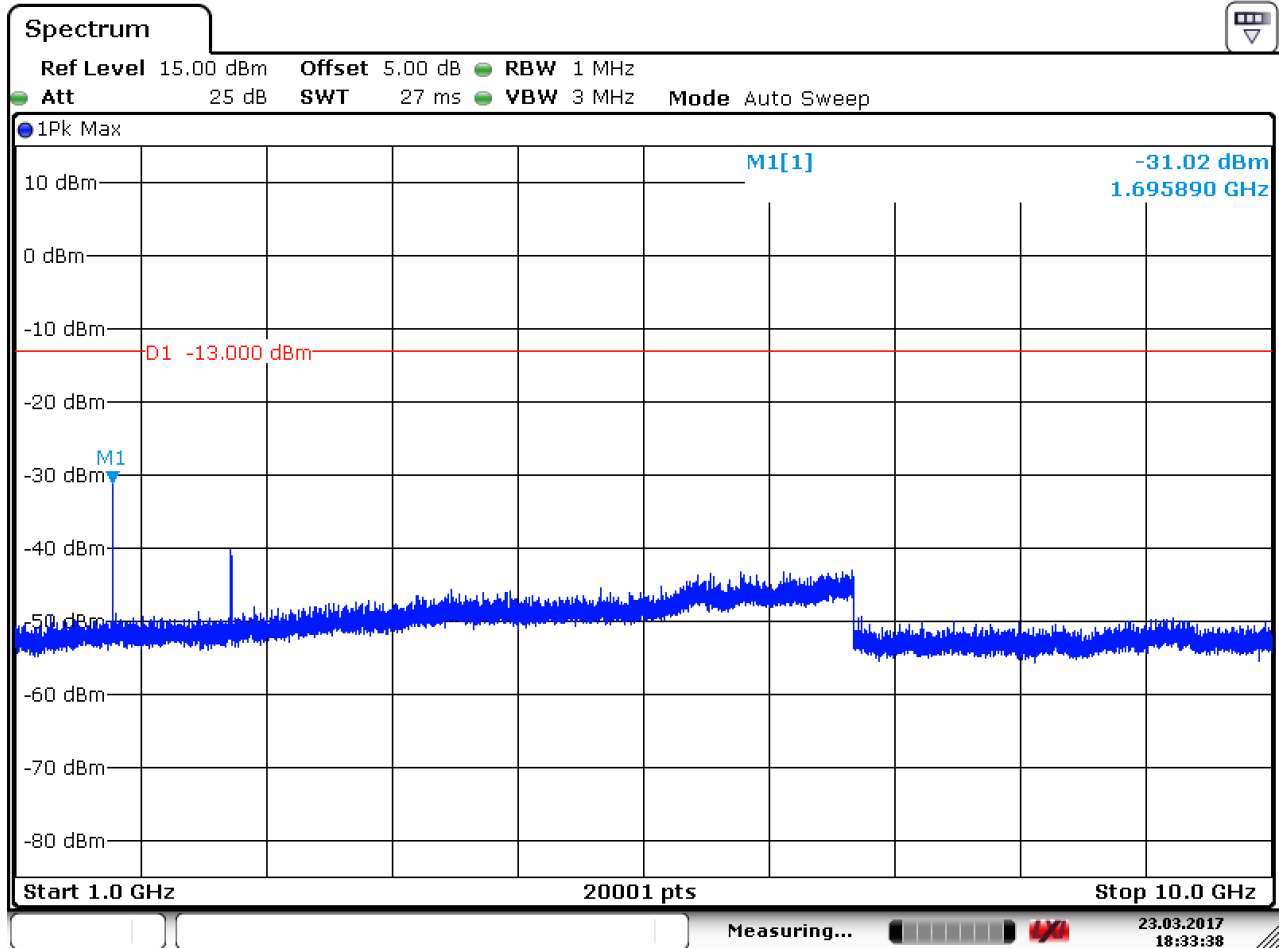


6.1.1.1.3 Test Channel = HCH



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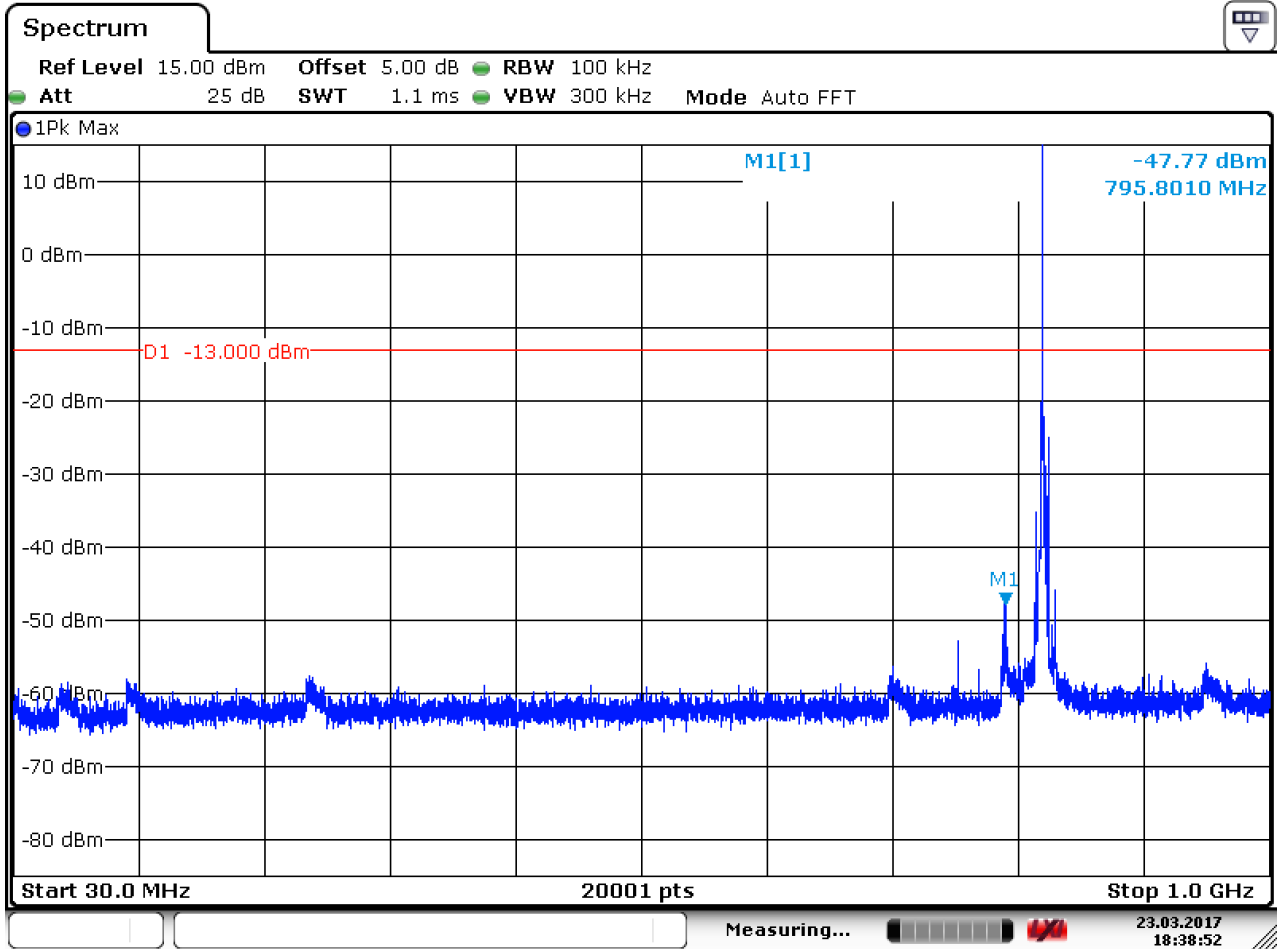
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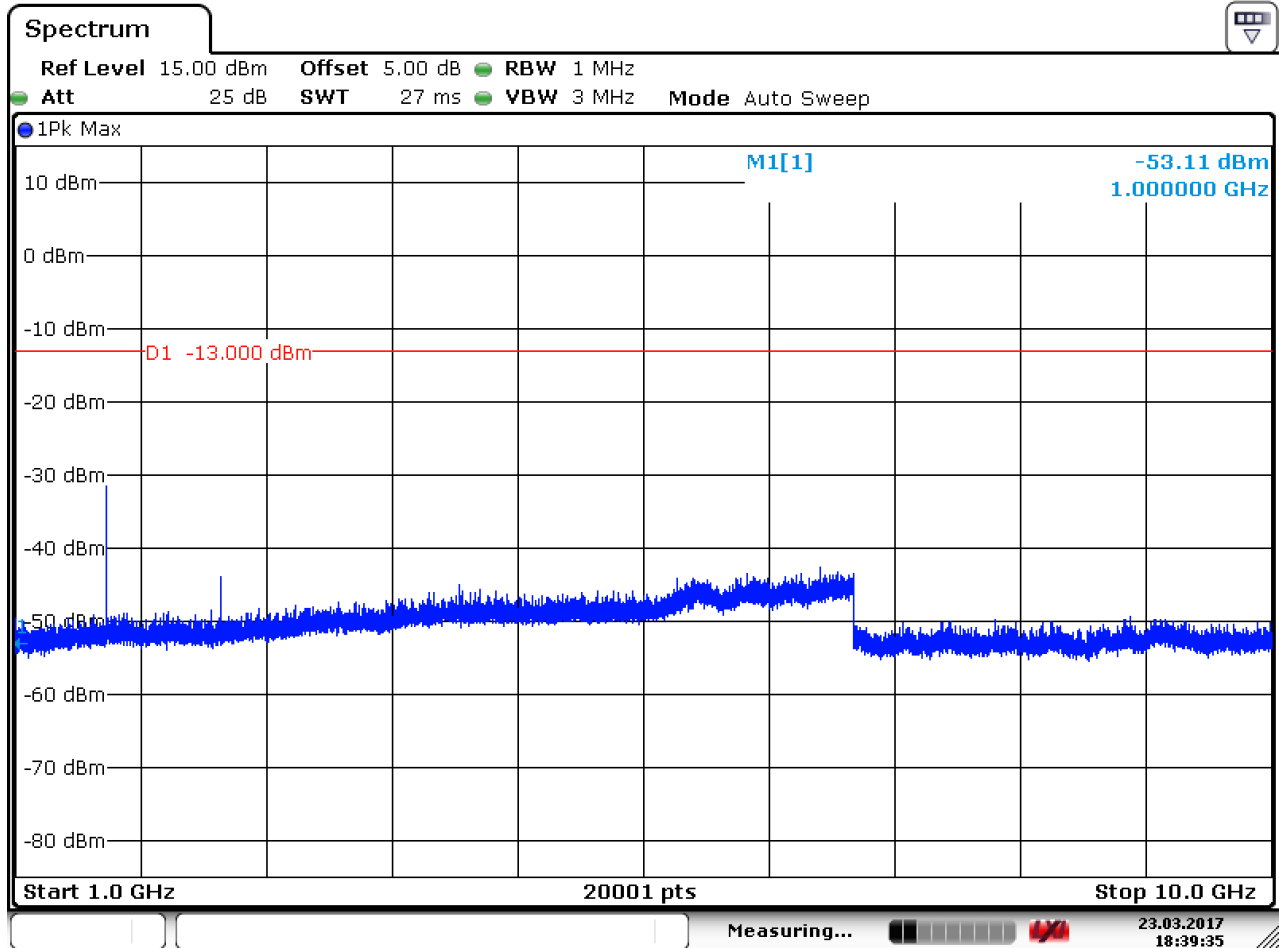
6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

6.1.1.2.1 Test Channel = LCH



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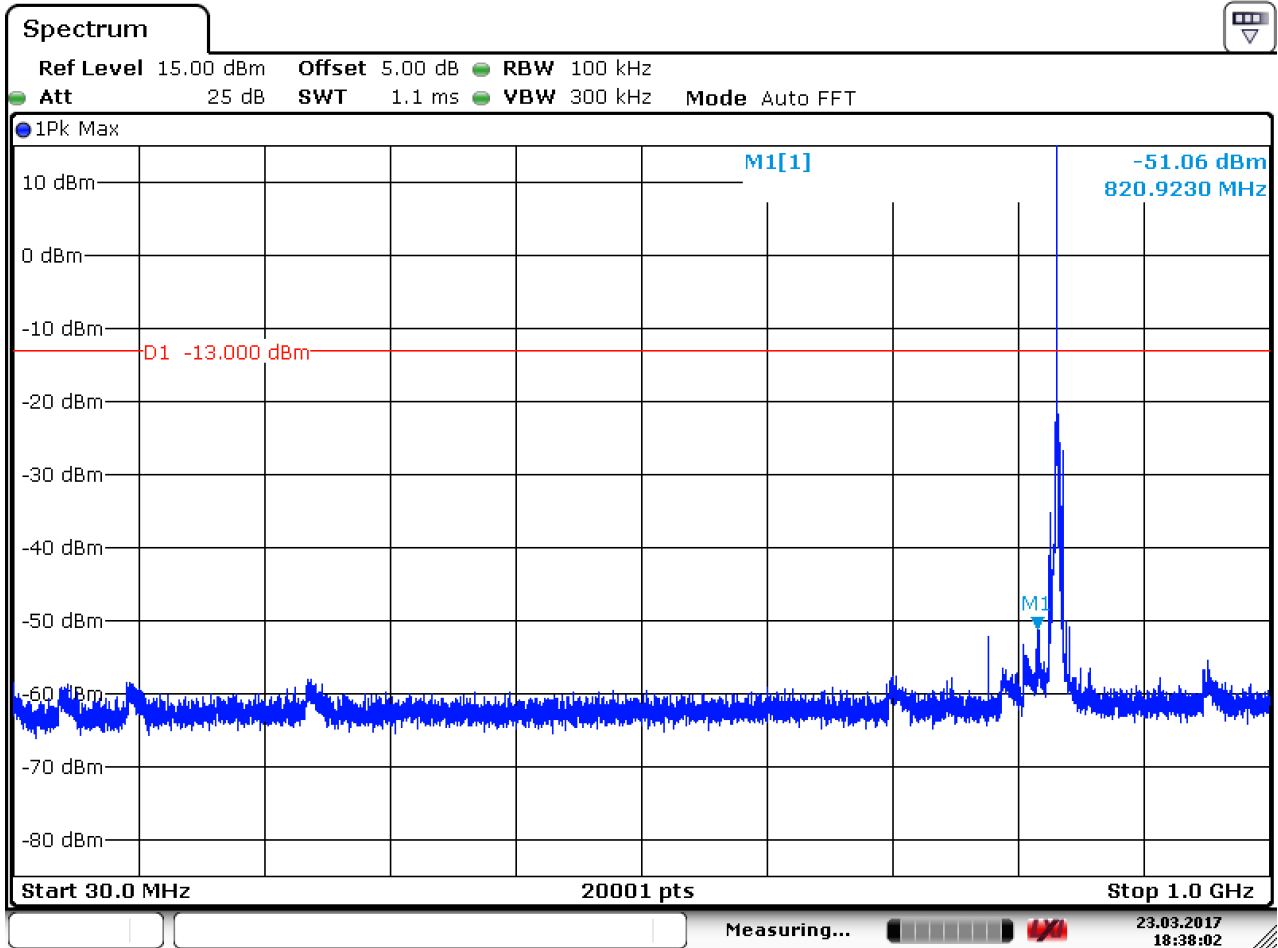


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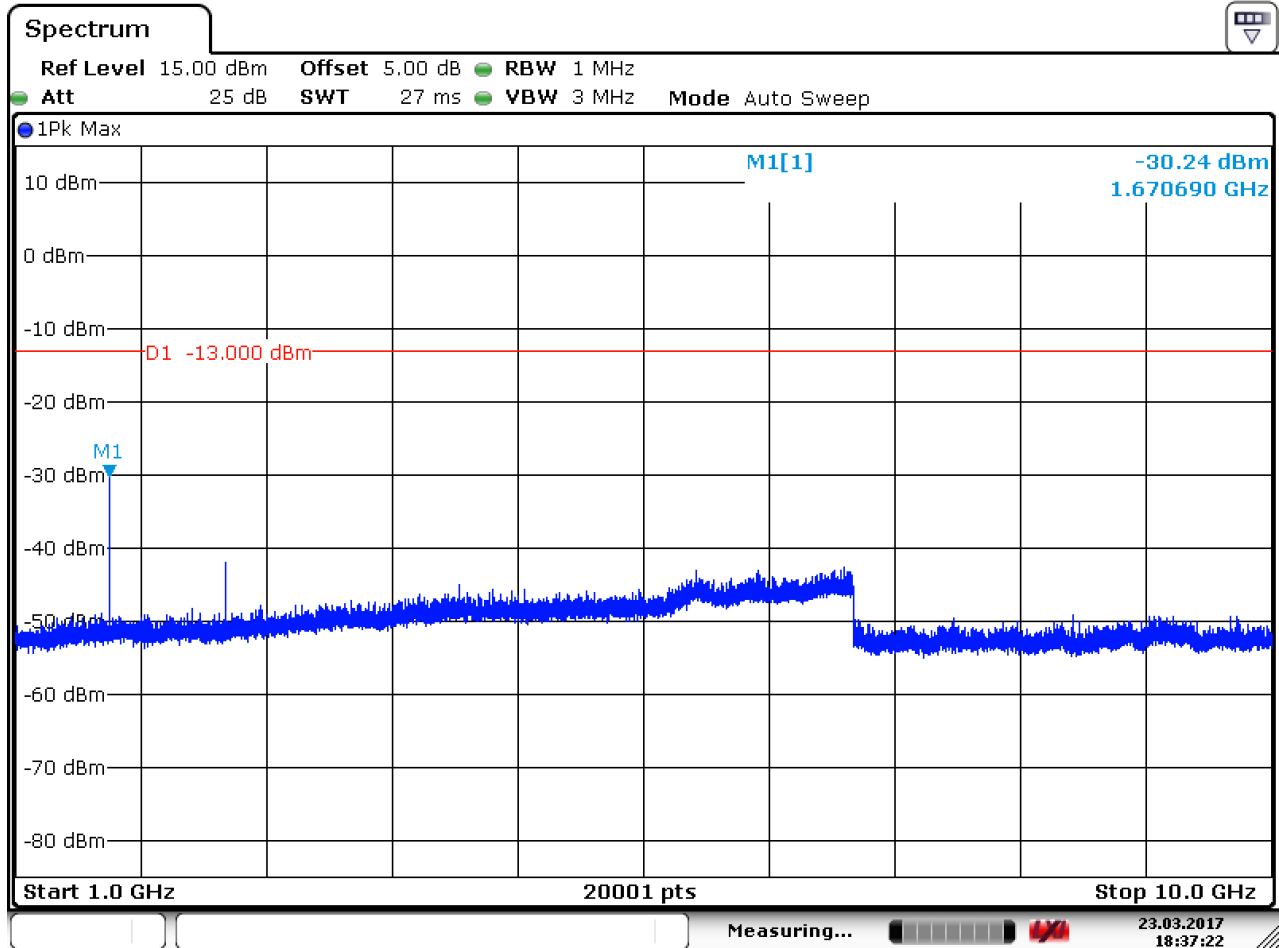


6.1.1.2.2 Test Channel = MCH



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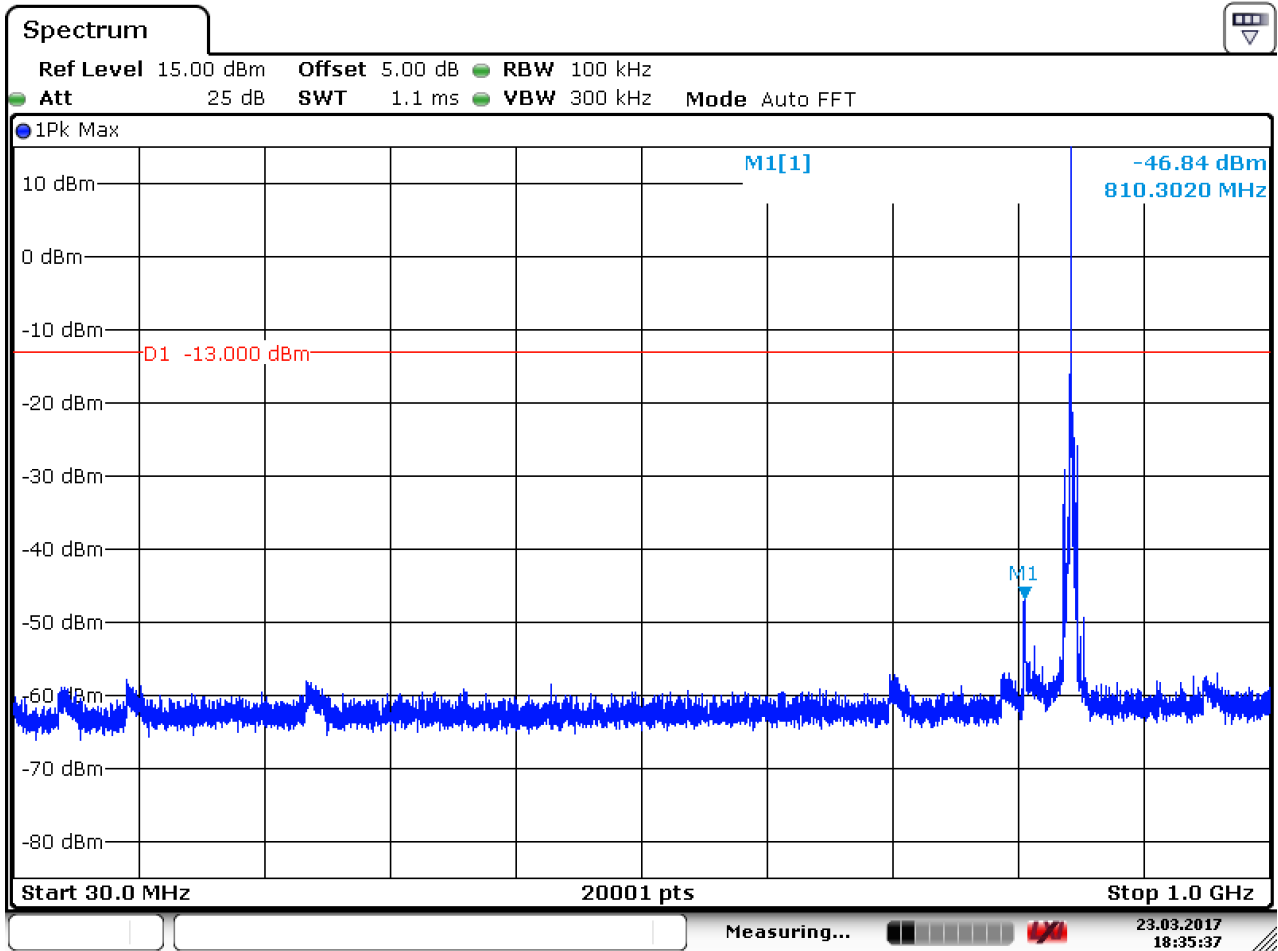


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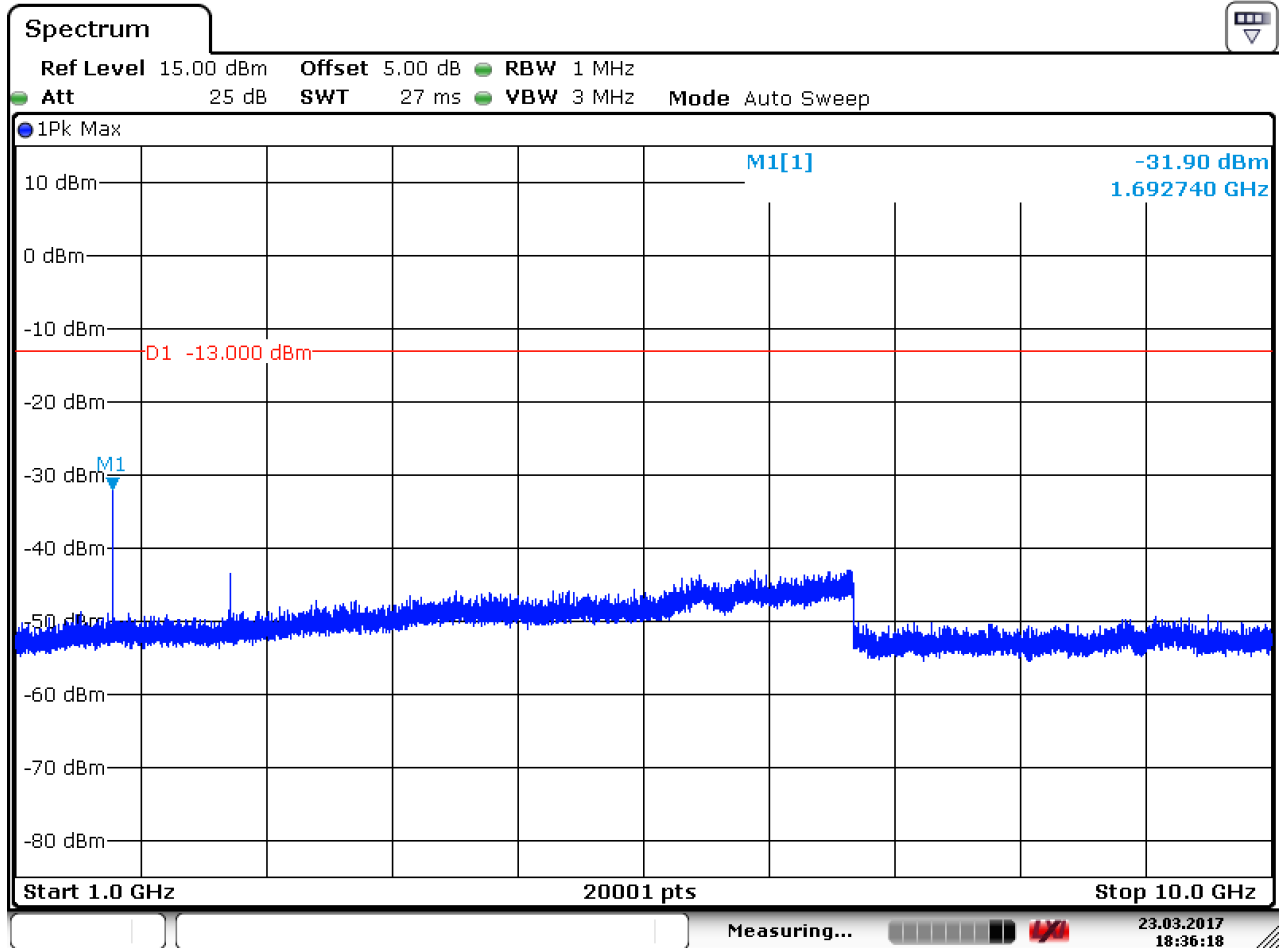


6.1.1.2.3 Test Channel = HCH



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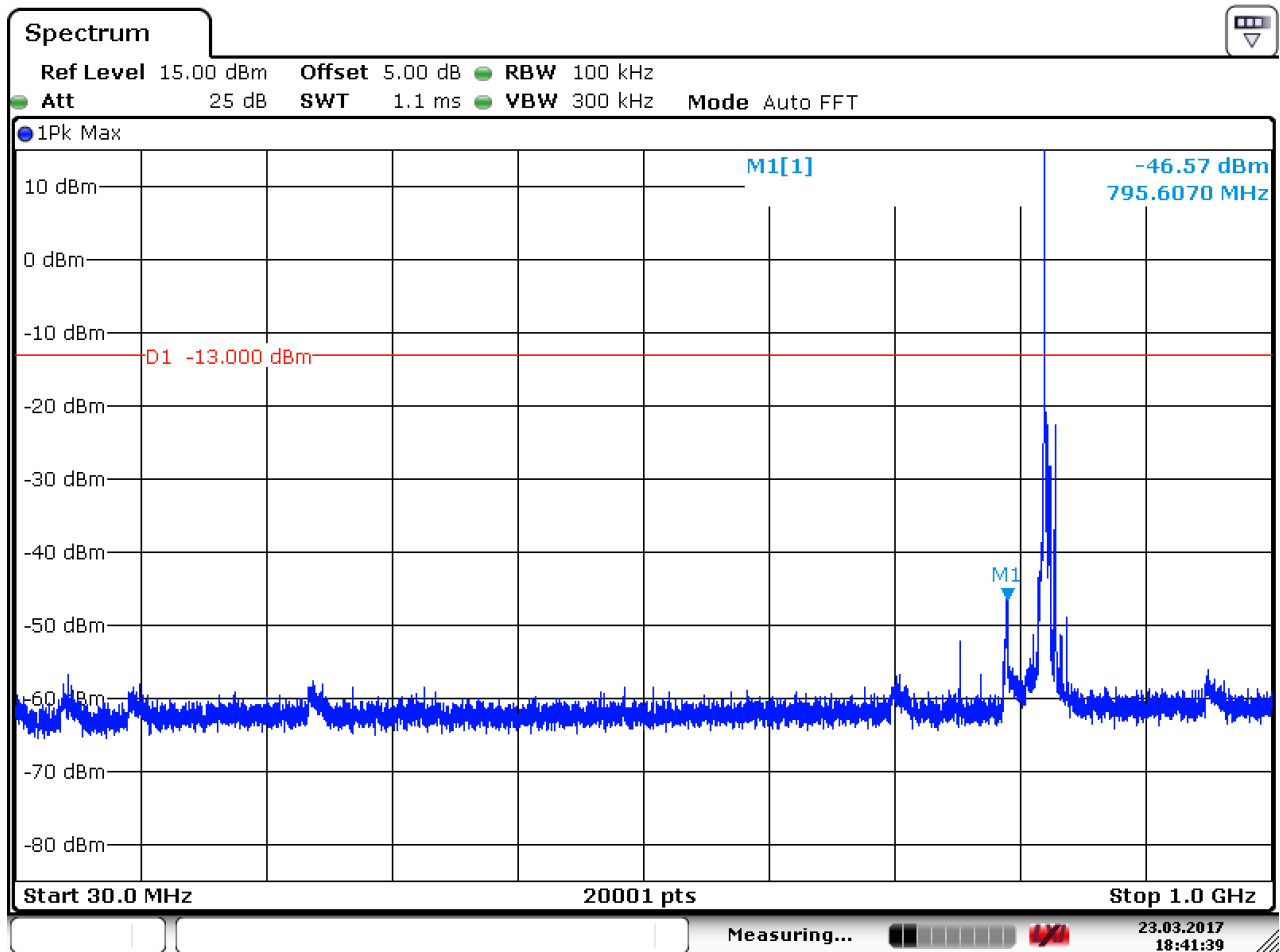


Date: 23.MAR.2017 18:36:19

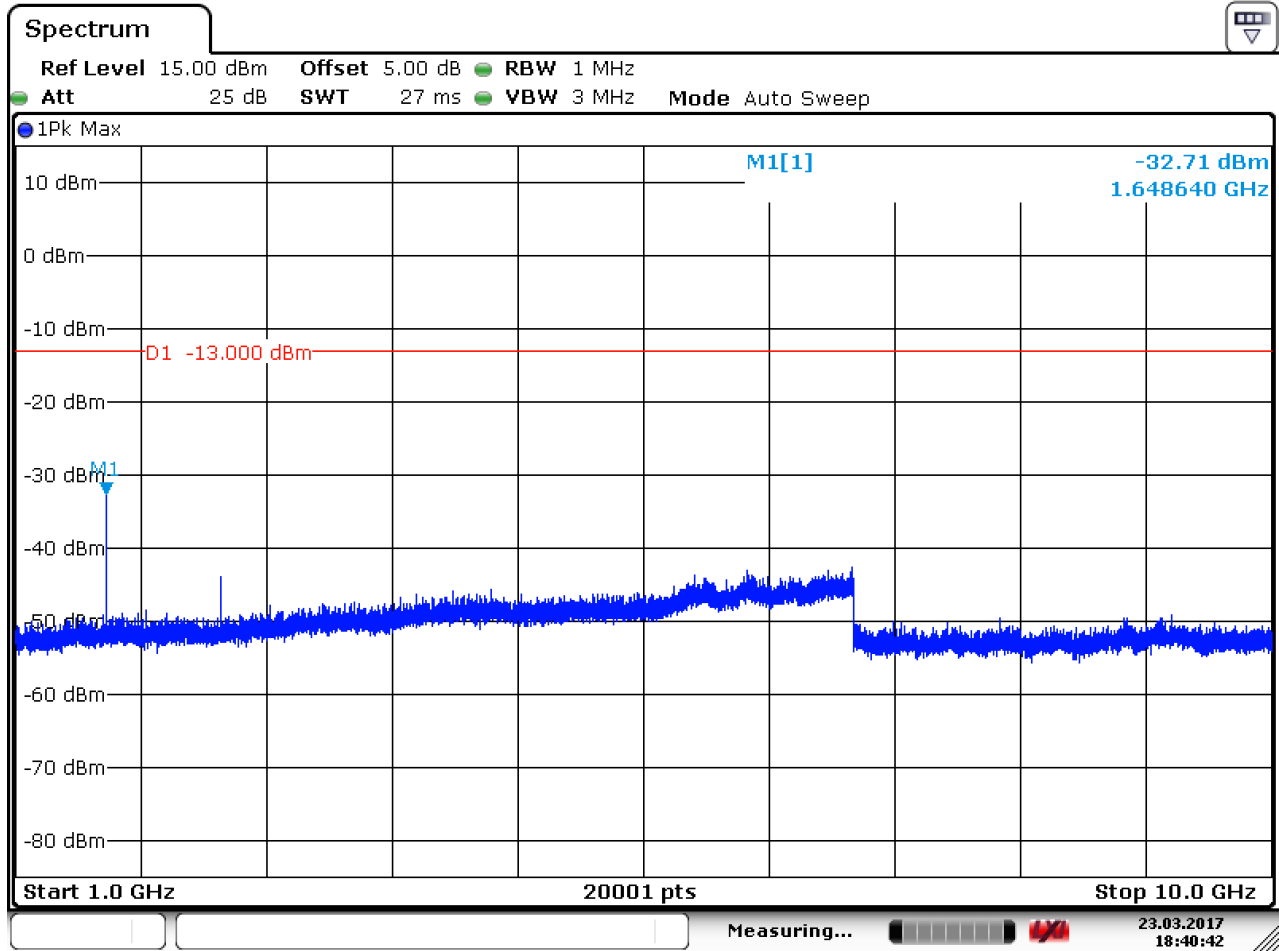
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6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.3.1 Test Channel = LCH



Date: 23.MAR.2017 18:41:40

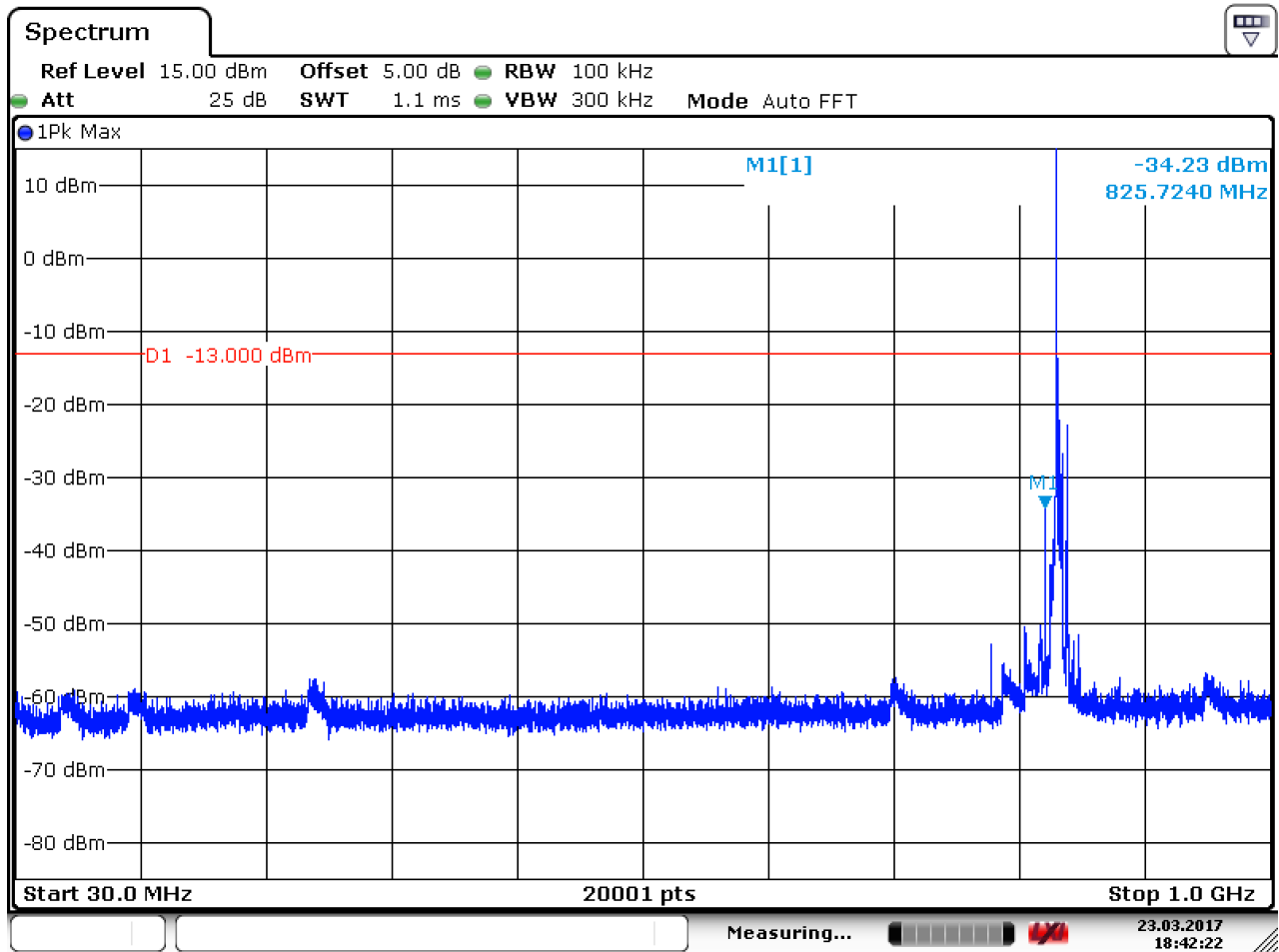


Date: 23.MAR.2017 18:40:42

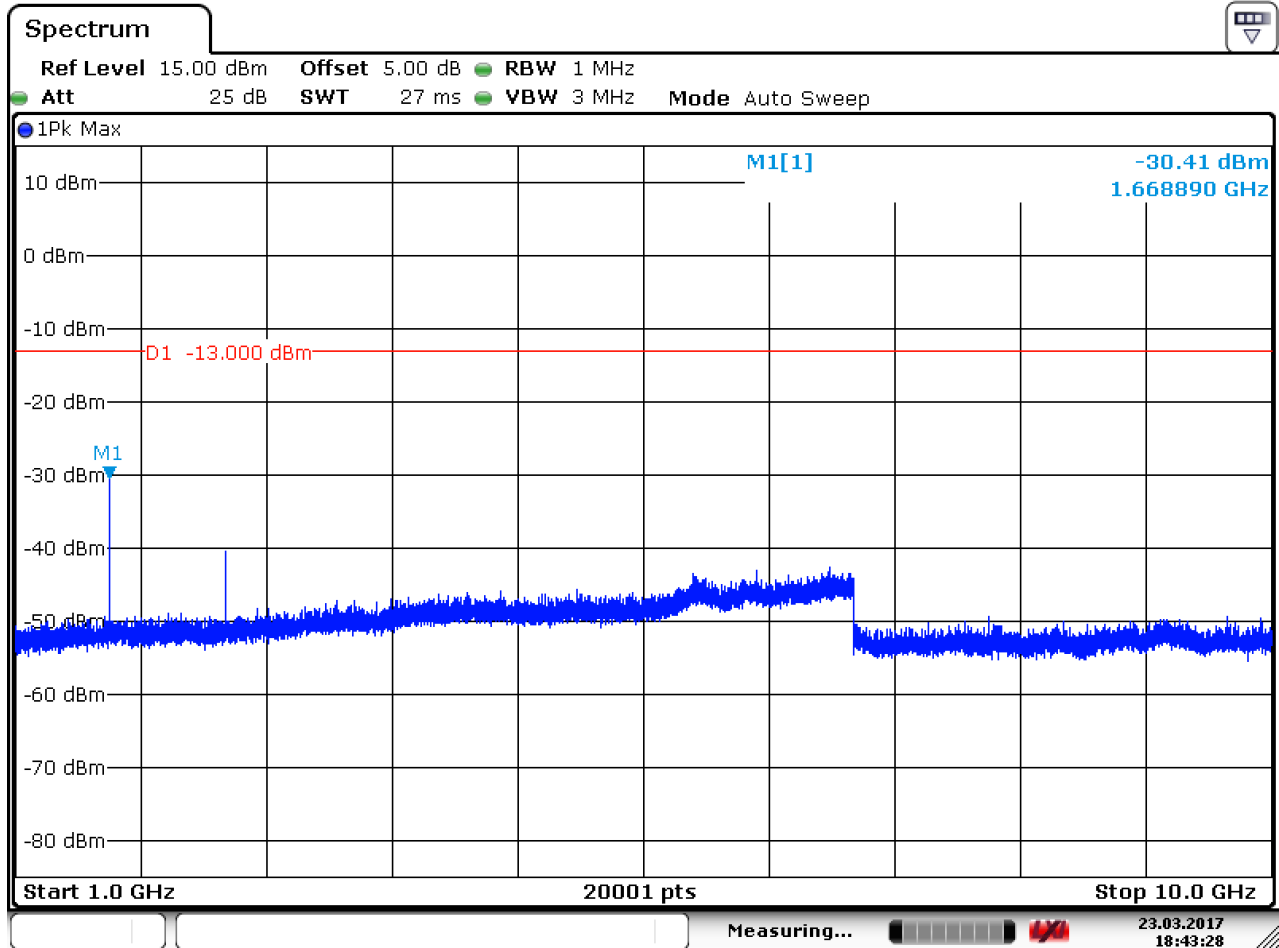
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6.1.1.3.2 Test Channel = MCH



Date: 23.MAR.2017 18:42:22

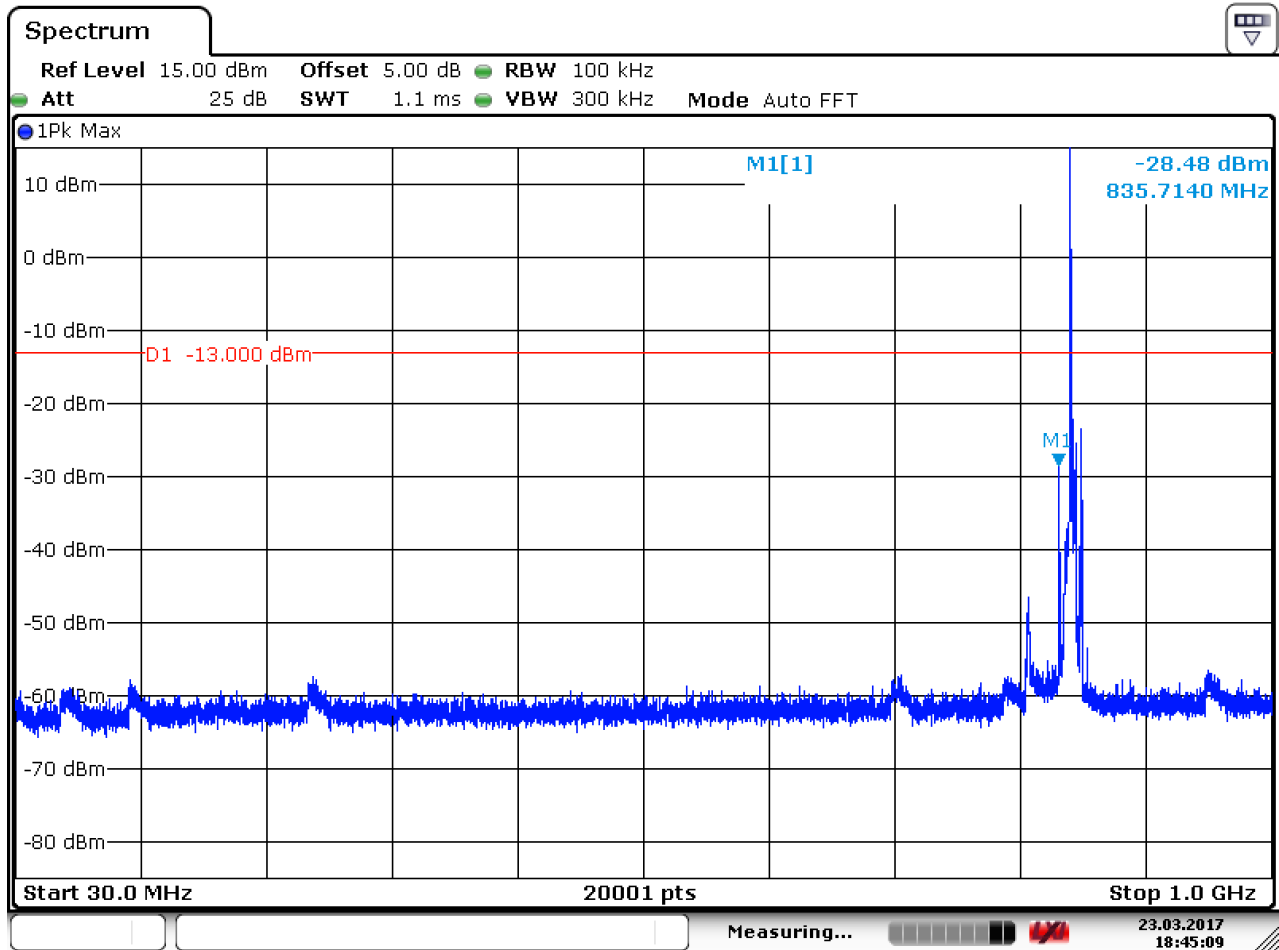


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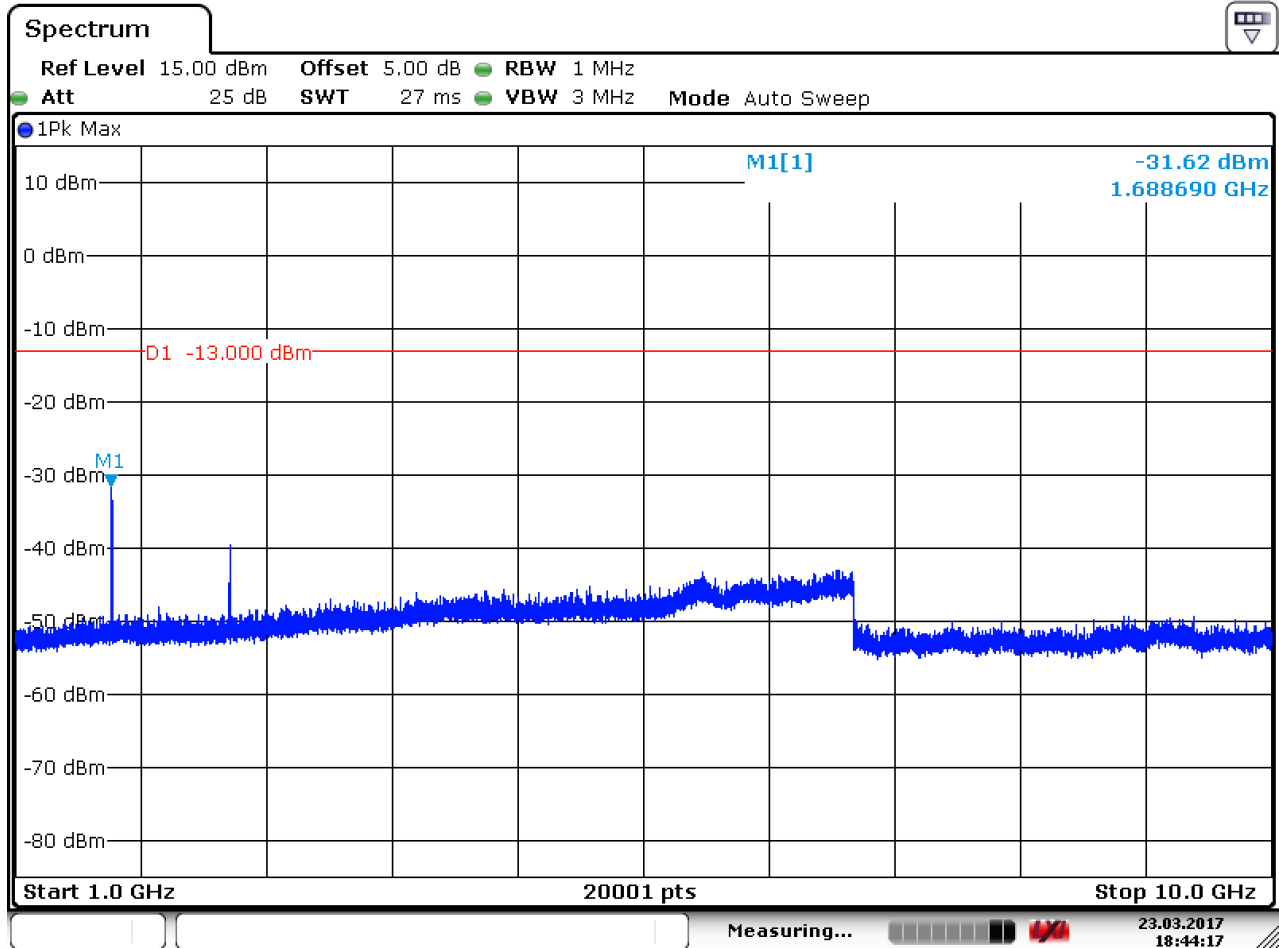


6.1.1.3.3 Test Channel = HCH



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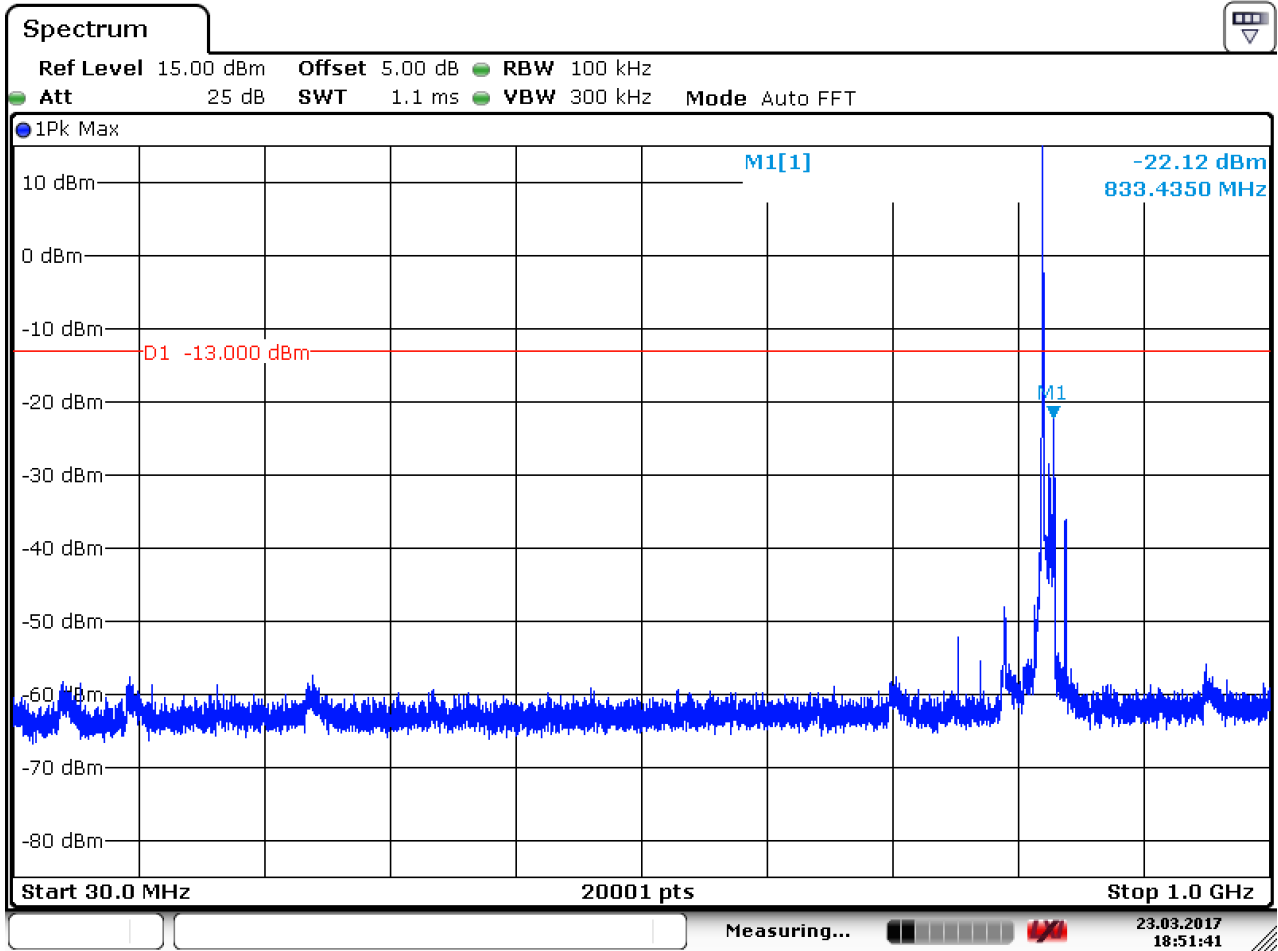
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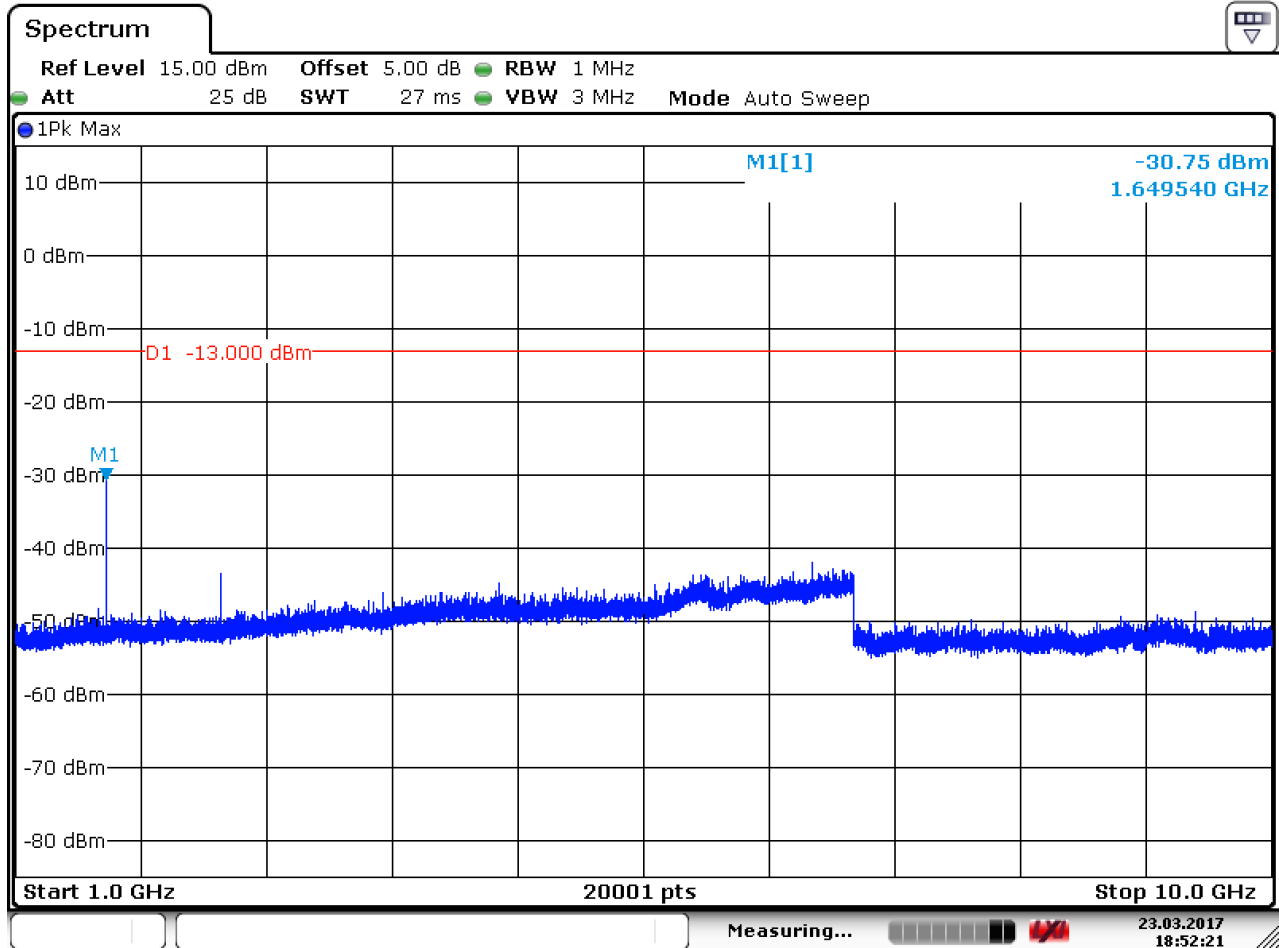


6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = LCH



Date: 23.MAR.2017 18:51:41

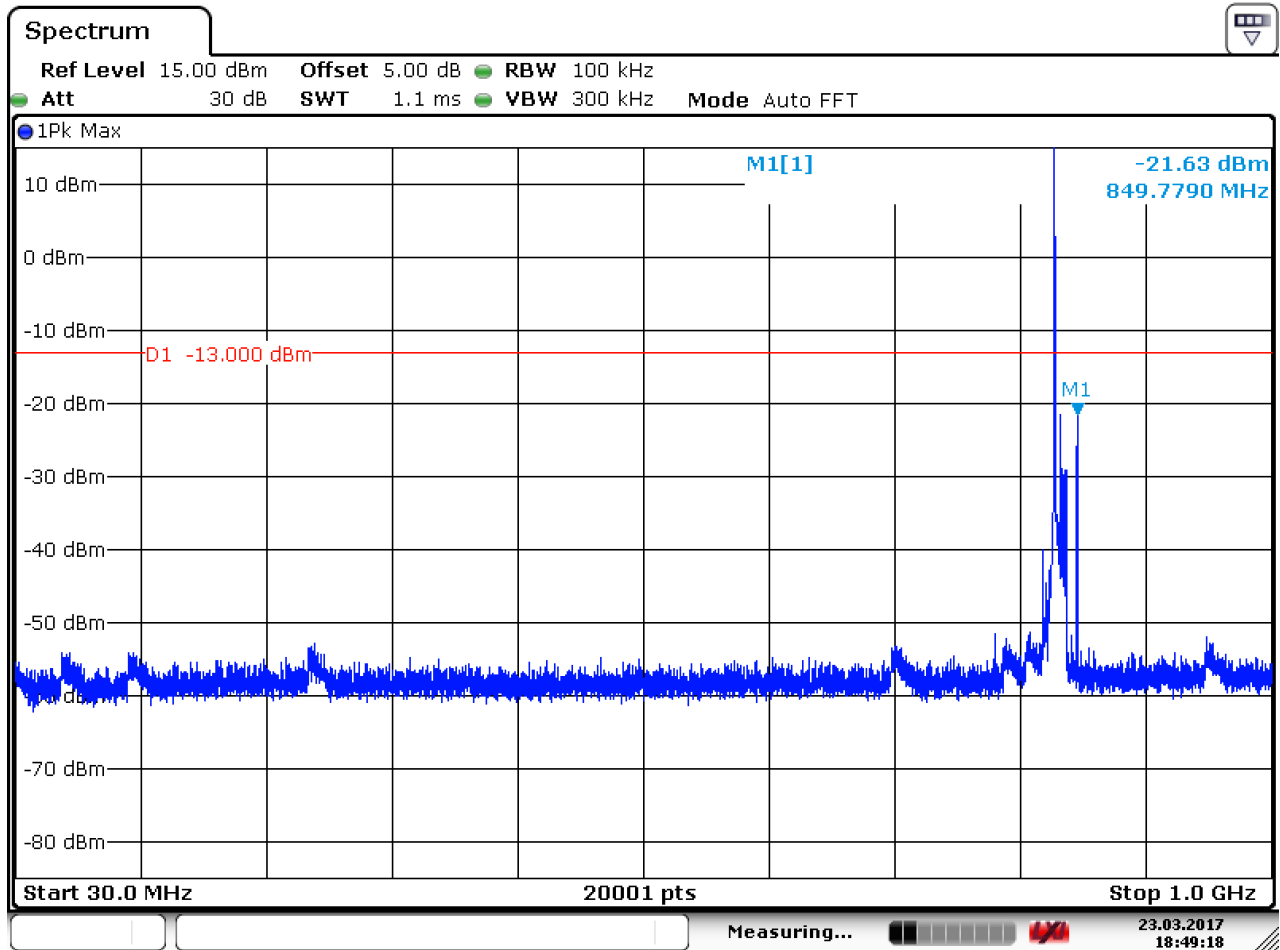


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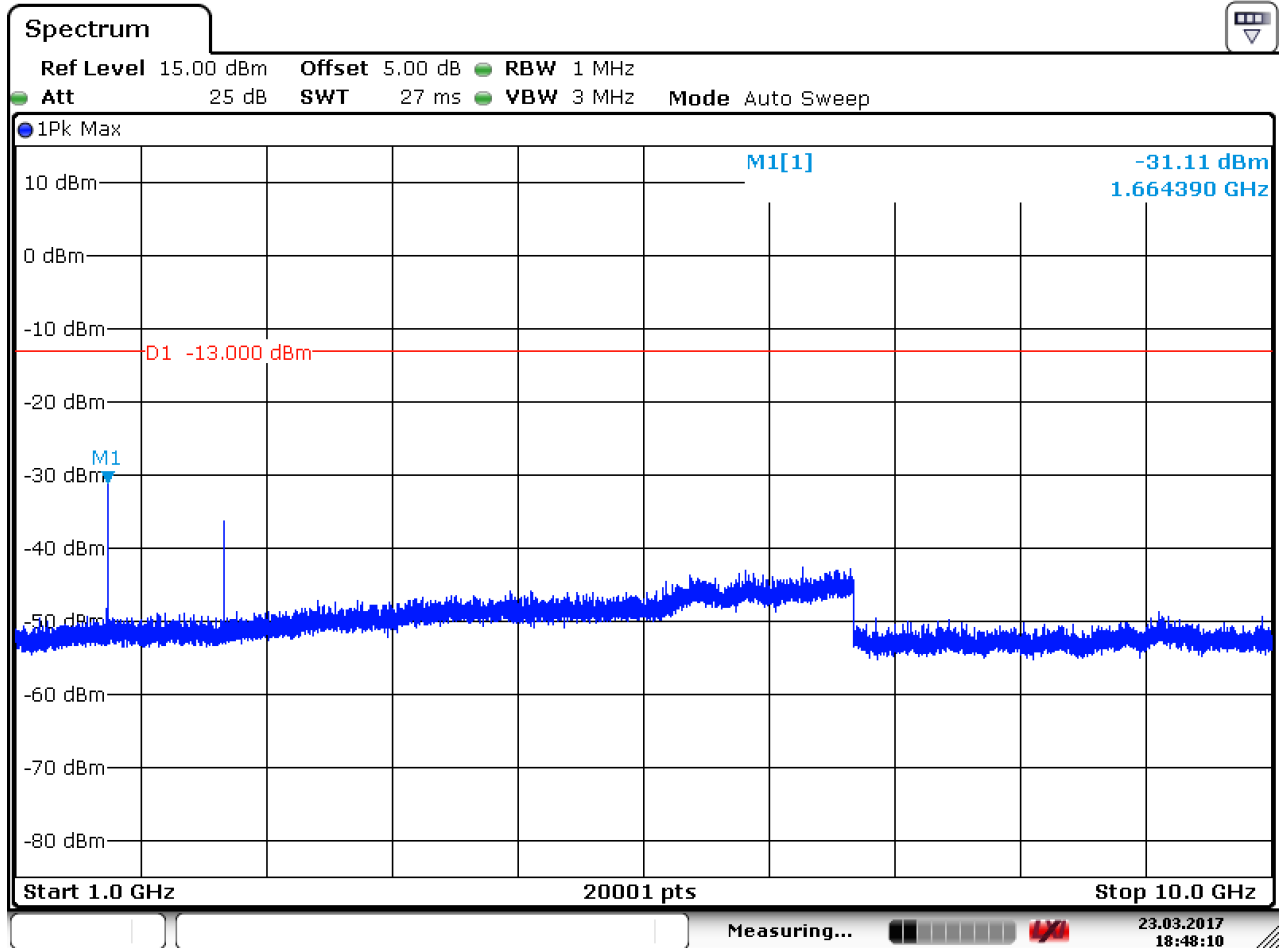


6.1.1.4.2 Test Channel = MCH



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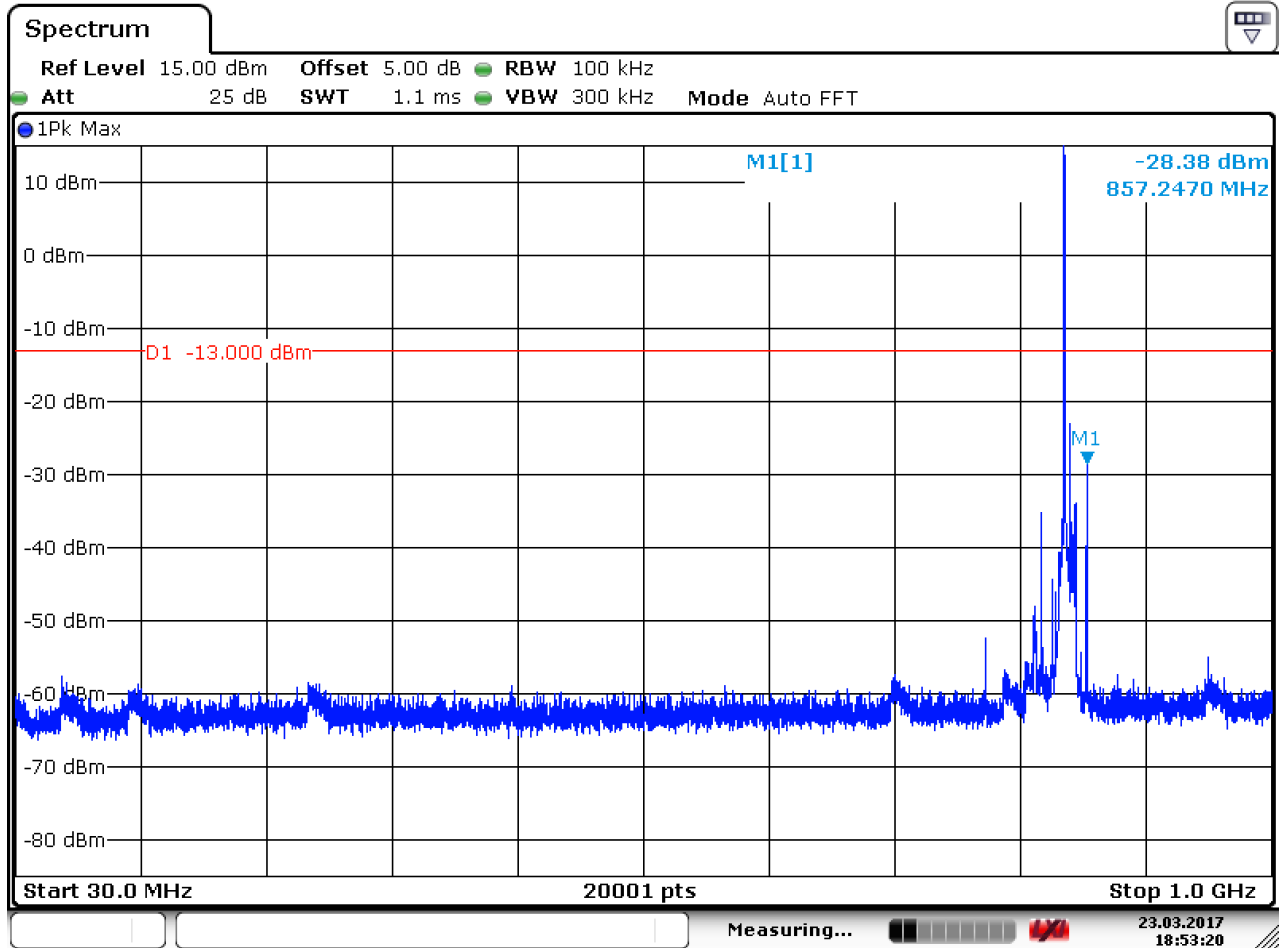


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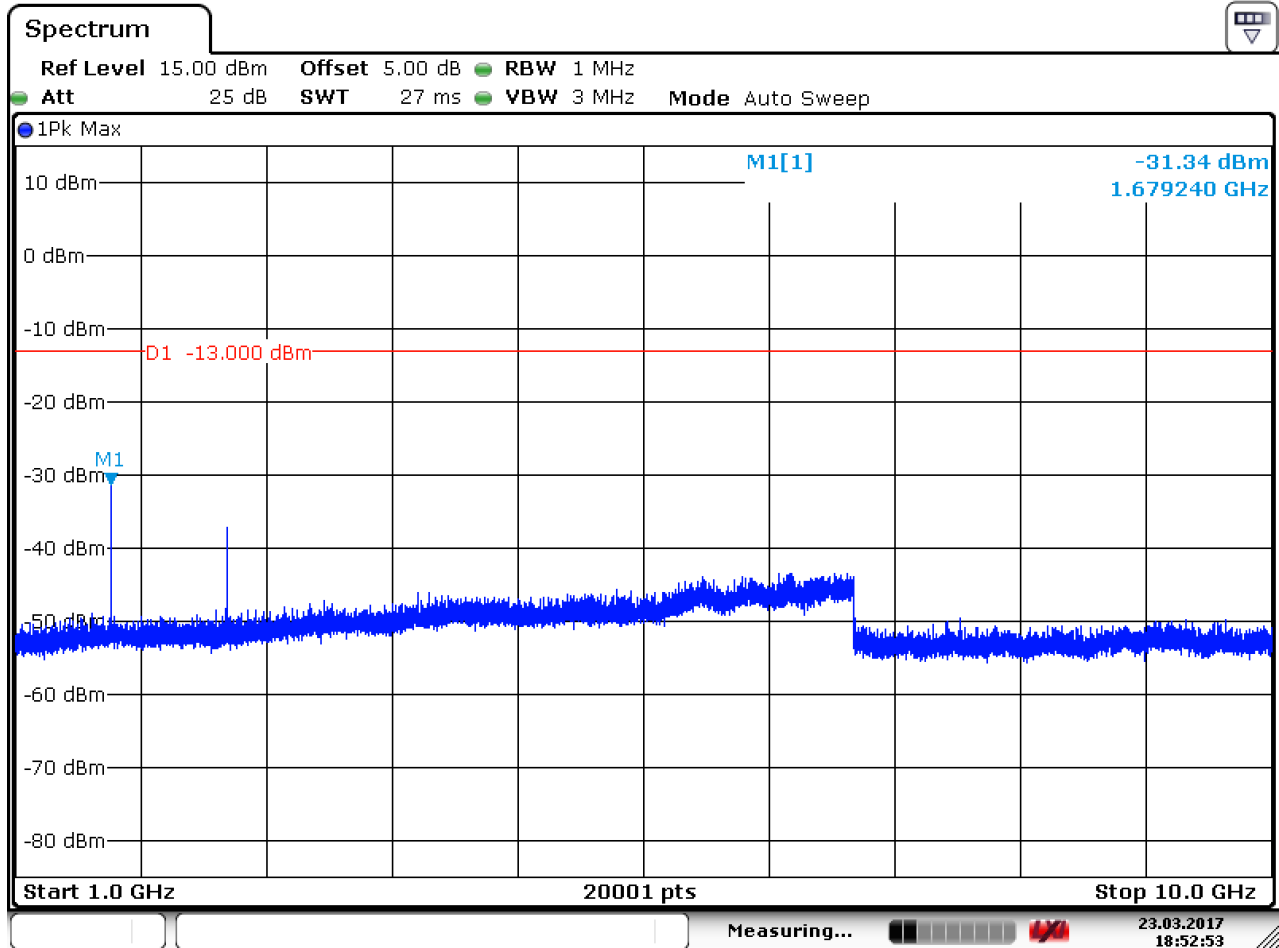


6.1.1.4.3 Test Channel = HCH



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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 Test Mode =LTE/TM1 10MHz RB1#0

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1243.000	-65.89	-13.00	-52.89	Vertical
2640.000	-57.31	-13.00	-44.31	Vertical
6022.500	-66.41	-13.00	-53.41	Vertical
1298.000	-67.36	-13.00	-54.36	Horizontal
2680.000	-57.35	-13.00	-44.35	Horizontal
4852.500	-67.43	-13.00	-54.43	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1243.000	-66.01	-13.00	-53.01	Vertical
2592.000	-57.77	-13.00	-44.77	Vertical
5827.500	-67.25	-13.00	-54.25	Vertical
1430.000	-66.64	-13.00	-53.64	Horizontal
2360.000	-58.82	-13.00	-45.82	Horizontal
4657.500	-68.15	-13.00	-55.15	Horizontal

Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1122.000	-66.58	-13.00	-53.58	Vertical
1661.000	-64.70	-13.00	-51.70	Vertical
4657.500	-68.08	-13.00	-55.08	Vertical
1111.000	-66.67	-13.00	-53.67	Horizontal
2496.000	-58.85	-13.00	-45.85	Horizontal
5535.000	-67.32	-13.00	-54.32	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.



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 band5	LTE/TM1 10MHz	LCH	TN	VL	-4.23	-0.00510	PASS
				VN	1.46	0.00176	PASS
				VH	-5.73	-0.00691	PASS
		MCH	TN	VL	1.43	0.00171	PASS
				VN	-2.84	-0.00339	PASS
				VH	2.43	0.00290	PASS
		HCH	TN	VL	-6.26	-0.00742	PASS
				VN	-5.37	-0.00636	PASS
				VH	-1.39	-0.00165	PASS
	LTE/TM2 10MHz	LCH	TN	VL	-4.28	-0.00516	PASS
				VN	-2.93	-0.00353	PASS
				VH	-5.14	-0.00620	PASS
		MCH	TN	VL	1.53	0.00183	PASS
				VN	-2.60	-0.00311	PASS
				VH	2.59	0.00310	PASS
		HCH	TN	VL	-3.28	-0.00389	PASS
				VN	-6.20	-0.00735	PASS
				VH	1.45	0.00172	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
LTEband5	LTE/TM1 10MHz	LCH	VN	-30	-2.40	-0.00290	PASS
				-20	-1.54	-0.00186	PASS
				-10	2.38	0.00287	PASS
				0	41.75	0.05036	PASS
				10	1.65	0.00199	PASS
				20	0.51	0.00062	PASS
				30	-4.31	-0.00520	PASS
				40	-2.64	-0.00318	PASS
				50	0.89	0.00107	PASS
		MCH	VN	-30	-7.20	-0.00861	PASS
				-20	-5.35	-0.00639	PASS
				-10	-7.39	-0.00883	PASS
				0	-3.62	-0.00433	PASS
				10	-4.55	-0.00544	PASS
				20	-7.34	-0.00877	PASS
				30	-2.66	-0.00318	PASS
				40	1.62	0.00194	PASS
				50	-6.42	-0.00767	PASS
		HCH	VN	-30	2.54	0.00301	PASS
				-20	-3.49	-0.00414	PASS
				-10	1.56	0.00185	PASS
				0	-4.83	-0.00572	PASS
				10	2.60	0.00308	PASS
				20	-0.67	-0.00079	PASS
				30	-4.66	-0.00552	PASS
				40	-5.22	-0.00618	PASS
				50	-8.20	-0.00972	PASS

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**SGS-CSTC Standards Technical Services Co., Ltd.
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	-1.50	-0.00181	PASS
				-20	-2.25	-0.00271	PASS
				-10	3.68	0.00444	PASS
				0	2.64	0.00318	PASS
				10	1.60	0.00193	PASS
				20	-0.27	-0.00033	PASS
				30	-3.44	-0.00415	PASS
				40	5.34	0.00644	PASS
		MCH	VN	50	0.49	0.00059	PASS
				-30	-2.80	-0.00335	PASS
				-20	-5.38	-0.00643	PASS
				-10	-7.19	-0.00859	PASS
				0	-5.12	-0.00612	PASS
				10	-0.64	-0.00077	PASS
				20	1.74	0.00208	PASS
				30	-3.34	-0.00399	PASS
		HCH	VN	40	-2.68	-0.00320	PASS
				50	-3.46	-0.00414	PASS
				-30	1.24	0.00147	PASS
				-20	-3.55	-0.00421	PASS
				-10	1.89	0.00224	PASS
				0	-3.70	-0.00438	PASS
				10	2.88	0.00341	PASS
				20	-1.57	-0.00186	PASS
30	-2.55	-0.00302	PASS				
40	-3.30	-0.00391	PASS				
50	-6.46	-0.00765	PASS				

The End

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