



Appendix B

Test Data for SZEM161000916605RG



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 4

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND4	LTE/TM1	1.4M	LCH	RB1#0	23.85	25.51	30.00	PASS
				RB1#2	23.94	25.60	30.00	PASS
				RB1#5	23.83	25.49	30.00	PASS
				RB3#0	23.96	25.62	30.00	PASS
				RB3#2	23.92	25.58	30.00	PASS
				RB3#3	23.94	25.60	30.00	PASS
				RB6#0	23.95	25.61	30.00	PASS
			MCH	RB1#0	23.69	25.35	30.00	PASS
				RB1#2	23.76	25.42	30.00	PASS
				RB1#5	23.67	25.33	30.00	PASS
				RB3#0	23.79	25.45	30.00	PASS
				RB3#2	23.76	25.42	30.00	PASS
				RB3#3	23.77	25.43	30.00	PASS
				RB6#0	23.77	25.43	30.00	PASS
			HCH	RB1#0	23.39	25.05	30.00	PASS
				RB1#2	23.44	25.10	30.00	PASS
				RB1#5	23.32	24.98	30.00	PASS
				RB3#0	23.49	25.15	30.00	PASS
				RB3#2	23.43	25.09	30.00	PASS
				RB3#3	23.42	25.08	30.00	PASS
				RB6#0	23.45	25.11	30.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND4	LTE/TM2	1.4M	LCH	RB1#0	24.01	25.67	30.00	PASS
				RB1#2	24.11	25.77	30.00	PASS
				RB1#5	24.00	25.66	30.00	PASS
				RB3#0	23.88	25.54	30.00	PASS
				RB3#2	23.83	25.49	30.00	PASS
				RB3#3	23.86	25.52	30.00	PASS
				RB6#0	23.94	25.60	30.00	PASS
			MCH	RB1#0	23.89	25.55	30.00	PASS
				RB1#2	24.00	25.66	30.00	PASS
				RB1#5	23.89	25.55	30.00	PASS
				RB3#0	23.73	25.39	30.00	PASS
				RB3#2	23.70	25.36	30.00	PASS
				RB3#3	23.70	25.36	30.00	PASS
				RB6#0	23.80	25.46	30.00	PASS
			HCH	RB1#0	23.54	25.20	30.00	PASS
				RB1#2	23.63	25.29	30.00	PASS
				RB1#5	23.45	25.11	30.00	PASS
				RB3#0	23.42	25.08	30.00	PASS
				RB3#2	23.35	25.01	30.00	PASS
				RB3#3	23.34	25.00	30.00	PASS
				RB6#0	23.44	25.10	30.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND4	LTE/TM1	3M	LCH	RB1#0	23.86	25.52	30.00	PASS
				RB1#7	23.87	25.53	30.00	PASS
				RB1#14	23.78	25.44	30.00	PASS
				RB8#0	23.96	25.62	30.00	PASS
				RB8#4	23.94	25.60	30.00	PASS
				RB8#7	23.93	25.59	30.00	PASS
				RB15#0	23.97	25.63	30.00	PASS
			MCH	RB1#0	23.69	25.35	30.00	PASS
				RB1#7	23.74	25.40	30.00	PASS
				RB1#14	23.63	25.29	30.00	PASS
				RB8#0	23.83	25.49	30.00	PASS
				RB8#4	23.79	25.45	30.00	PASS
				RB8#7	23.81	25.47	30.00	PASS
				RB15#0	23.81	25.47	30.00	PASS
			HCH	RB1#0	23.51	25.17	30.00	PASS
				RB1#7	23.47	25.13	30.00	PASS
				RB1#14	23.30	24.96	30.00	PASS
				RB8#0	23.57	25.23	30.00	PASS
				RB8#4	23.51	25.17	30.00	PASS
				RB8#7	23.46	25.12	30.00	PASS
				RB15#0	23.55	25.21	30.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND4	LTE/TM2	3M	LCH	RB1#0	23.98	25.64	30.00	PASS
				RB1#7	24.01	25.67	30.00	PASS
				RB1#14	23.93	25.59	30.00	PASS
				RB8#0	23.91	25.57	30.00	PASS
				RB8#4	23.91	25.57	30.00	PASS
				RB8#7	23.89	25.55	30.00	PASS
				RB15#0	23.88	25.54	30.00	PASS
			MCH	RB1#0	23.89	25.55	30.00	PASS
				RB1#7	23.92	25.58	30.00	PASS
				RB1#14	23.82	25.48	30.00	PASS
				RB8#0	23.81	25.47	30.00	PASS
				RB8#4	23.77	25.43	30.00	PASS
				RB8#7	23.79	25.45	30.00	PASS
				RB15#0	23.77	25.43	30.00	PASS
			HCH	RB1#0	23.66	25.32	30.00	PASS
				RB1#7	23.61	25.27	30.00	PASS
				RB1#14	23.47	25.13	30.00	PASS
				RB8#0	23.54	25.20	30.00	PASS
				RB8#4	23.46	25.12	30.00	PASS
				RB8#7	23.42	25.08	30.00	PASS
				RB15#0	23.49	25.15	30.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND4	LTE/TM1	5M	LCH	RB1#0	23.91	25.57	30.00	PASS
				RB1#13	23.87	25.53	30.00	PASS
				RB1#24	23.78	25.44	30.00	PASS
				RB12#0	23.99	25.65	30.00	PASS
				RB12#6	23.94	25.60	30.00	PASS
				RB12#13	23.92	25.58	30.00	PASS
				RB25#0	23.93	25.59	30.00	PASS
			MCH	RB1#0	23.76	25.42	30.00	PASS
				RB1#13	23.74	25.40	30.00	PASS
				RB1#24	23.68	25.34	30.00	PASS
				RB12#0	23.83	25.49	30.00	PASS
				RB12#6	23.81	25.47	30.00	PASS
				RB12#13	23.81	25.47	30.00	PASS
				RB25#0	23.79	25.45	30.00	PASS
			HCH	RB1#0	23.70	25.36	30.00	PASS
				RB1#13	23.53	25.19	30.00	PASS
				RB1#24	23.31	24.97	30.00	PASS
				RB12#0	23.69	25.35	30.00	PASS
				RB12#6	23.62	25.28	30.00	PASS
				RB12#13	23.53	25.19	30.00	PASS
				RB25#0	23.58	25.24	30.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND4	LTE/TM2	5M	LCH	RB1#0	24.03	25.69	30.00	PASS
				RB1#13	24.03	25.69	30.00	PASS
				RB1#24	23.96	25.62	30.00	PASS
				RB12#0	23.92	25.58	30.00	PASS
				RB12#6	23.88	25.54	30.00	PASS
				RB12#13	23.86	25.52	30.00	PASS
				RB25#0	23.86	25.52	30.00	PASS
			MCH	RB1#0	23.93	25.59	30.00	PASS
				RB1#13	23.92	25.58	30.00	PASS
				RB1#24	23.86	25.52	30.00	PASS
				RB12#0	23.79	25.45	30.00	PASS
				RB12#6	23.77	25.43	30.00	PASS
				RB12#13	23.77	25.43	30.00	PASS
				RB25#0	23.75	25.41	30.00	PASS
			HCH	RB1#0	23.87	25.53	30.00	PASS
				RB1#13	23.70	25.36	30.00	PASS
				RB1#24	23.46	25.12	30.00	PASS
				RB12#0	23.64	25.30	30.00	PASS
				RB12#6	23.57	25.23	30.00	PASS
				RB12#13	23.47	25.13	30.00	PASS
				RB25#0	23.52	25.18	30.00	PASS

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BAND4	LTE/TM1	10M	LCH	RB1#0	24.01	25.67	30.00	PASS
				RB1#25	23.90	25.56	30.00	PASS
				RB1#49	23.85	25.51	30.00	PASS
				RB25#0	23.99	25.65	30.00	PASS
				RB25#13	23.94	25.60	30.00	PASS
				RB25#25	23.90	25.56	30.00	PASS
				RB50#0	23.98	25.64	30.00	PASS
			MCH	RB1#0	23.76	25.42	30.00	PASS
				RB1#25	23.78	25.44	30.00	PASS
				RB1#49	23.75	25.41	30.00	PASS
				RB25#0	23.83	25.49	30.00	PASS
				RB25#13	23.80	25.46	30.00	PASS
				RB25#25	23.79	25.45	30.00	PASS
				RB50#0	23.85	25.51	30.00	PASS
			HCH	RB1#0	23.90	25.56	30.00	PASS
				RB1#25	23.72	25.38	30.00	PASS
				RB1#49	23.40	25.06	30.00	PASS
				RB25#0	23.91	25.57	30.00	PASS
				RB25#13	23.78	25.44	30.00	PASS
				RB25#25	23.59	25.25	30.00	PASS
				RB50#0	23.81	25.47	30.00	PASS

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BAND4	LTE/TM2	10M	LCH	RB1#0	24.15	25.81	30.00	PASS
				RB1#25	24.04	25.70	30.00	PASS
				RB1#49	24.00	25.66	30.00	PASS
				RB25#0	23.91	25.57	30.00	PASS
				RB25#13	23.85	25.51	30.00	PASS
				RB25#25	23.83	25.49	30.00	PASS
				RB50#0	23.92	25.58	30.00	PASS
			MCH	RB1#0	23.92	25.58	30.00	PASS
				RB1#25	23.95	25.61	30.00	PASS
				RB1#49	23.93	25.59	30.00	PASS
				RB25#0	23.77	25.43	30.00	PASS
				RB25#13	23.76	25.42	30.00	PASS
				RB25#25	23.75	25.41	30.00	PASS
				RB50#0	23.80	25.46	30.00	PASS
			HCH	RB1#0	24.07	25.73	30.00	PASS
				RB1#25	23.88	25.54	30.00	PASS
				RB1#49	23.55	25.21	30.00	PASS
				RB25#0	23.84	25.50	30.00	PASS
				RB25#13	23.72	25.38	30.00	PASS
				RB25#25	23.53	25.19	30.00	PASS
				RB50#0	23.74	25.40	30.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND4	LTE/TM1	15M	LCH	RB1#0	24.02	25.68	30.00	PASS
				RB1#38	23.88	25.54	30.00	PASS
				RB1#74	23.82	25.48	30.00	PASS
				RB36#0	24.02	25.68	30.00	PASS
				RB36#18	23.96	25.62	30.00	PASS
				RB36#39	23.94	25.60	30.00	PASS
				RB75#0	23.98	25.64	30.00	PASS
			MCH	RB1#0	23.89	25.55	30.00	PASS
				RB1#38	23.79	25.45	30.00	PASS
				RB1#74	23.83	25.49	30.00	PASS
				RB36#0	23.87	25.53	30.00	PASS
				RB36#18	23.85	25.51	30.00	PASS
				RB36#39	23.83	25.49	30.00	PASS
				RB75#0	23.85	25.51	30.00	PASS
			HCH	RB1#0	23.94	25.60	30.00	PASS
				RB1#38	23.83	25.49	30.00	PASS
				RB1#74	23.40	25.06	30.00	PASS
				RB36#0	23.94	25.60	30.00	PASS
				RB36#18	23.89	25.55	30.00	PASS
				RB36#39	23.71	25.37	30.00	PASS
				RB75#0	23.83	25.49	30.00	PASS

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BAND4	LTE/TM2	15M	LCH	RB1#0	24.11	25.17	30.00	PASS
				RB1#38	24.08	25.74	30.00	PASS
				RB1#74	24.04	25.70	30.00	PASS
				RB36#0	23.95	25.61	30.00	PASS
				RB36#18	23.89	25.55	30.00	PASS
				RB36#39	23.89	25.55	30.00	PASS
				RB75#0	23.92	25.58	30.00	PASS
			MCH	RB1#0	24.02	25.68	30.00	PASS
				RB1#38	24.00	25.66	30.00	PASS
				RB1#74	24.05	25.71	30.00	PASS
				RB36#0	23.80	25.46	30.00	PASS
				RB36#18	23.80	25.46	30.00	PASS
				RB36#39	23.78	25.44	30.00	PASS
				RB75#0	23.80	25.46	30.00	PASS
			HCH	RB1#0	24.11	25.77	30.00	PASS
				RB1#38	24.00	25.66	30.00	PASS
				RB1#74	23.56	25.22	30.00	PASS
				RB36#0	23.90	25.56	30.00	PASS
				RB36#18	23.85	25.51	30.00	PASS
				RB36#39	23.66	25.32	30.00	PASS
				RB75#0	23.77	25.43	30.00	PASS

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Shenzhen Branch**

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND4	LTE/TM1	20M	LCH	RB1#0	24.08	25.74	30.00	PASS
				RB1#50	23.89	25.55	30.00	PASS
				RB1#99	23.81	25.47	30.00	PASS
				RB50#0	24.06	25.72	30.00	PASS
				RB50#25	23.98	25.64	30.00	PASS
				RB50#50	23.93	25.59	30.00	PASS
				RB100#0	23.96	25.62	30.00	PASS
			MCH	RB1#0	23.99	25.65	30.00	PASS
				RB1#50	23.82	25.48	30.00	PASS
				RB1#99	23.89	25.55	30.00	PASS
				RB50#0	23.92	25.58	30.00	PASS
				RB50#25	23.86	25.52	30.00	PASS
				RB50#50	23.88	25.54	30.00	PASS
				RB100#0	23.90	25.56	30.00	PASS
			HCH	RB1#0	23.93	25.59	30.00	PASS
				RB1#50	23.86	25.52	30.00	PASS
				RB1#99	23.46	25.12	30.00	PASS
				RB50#0	23.99	25.65	30.00	PASS
				RB50#25	23.93	25.59	30.00	PASS
				RB50#50	23.82	25.48	30.00	PASS
				RB100#0	23.88	25.54	30.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND4	LTE/TM2	20M	LCH	RB1#0	24.15	25.81	30.00	PASS
				RB1#50	24.10	25.76	30.00	PASS
				RB1#99	23.97	25.63	30.00	PASS
				RB50#0	24.09	25.75	30.00	PASS
				RB50#25	23.96	25.62	30.00	PASS
				RB50#50	23.98	25.64	30.00	PASS
				RB100#0	24.03	25.69	30.00	PASS
			MCH	RB1#0	24.14	25.80	30.00	PASS
				RB1#50	24.01	25.67	30.00	PASS
				RB1#99	24.29	25.95	30.00	PASS
				RB50#0	24.01	25.67	30.00	PASS
				RB50#25	23.89	25.55	30.00	PASS
				RB50#50	23.85	25.51	30.00	PASS
				RB100#0	23.98	25.64	30.00	PASS
			HCH	RB1#0	24.15	25.81	30.00	PASS
				RB1#50	24.15	25.81	30.00	PASS
				RB1#99	23.96	25.62	30.00	PASS
				RB50#0	24.35	26.01	30.00	PASS
				RB50#25	24.02	25.68	30.00	PASS
				RB50#50	23.81	25.47	30.00	PASS
				RB100#0	23.90	25.56	30.00	PASS

Note:

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

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

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 4	TM1/20M	LCH	5.07	13	PASS
		MCH	4.90	13	PASS
		HCH	4.87	13	PASS
	TM2/20M	LCH	5.57	13	PASS
		MCH	5.57	13	PASS
		HCH	5.39	13	PASS



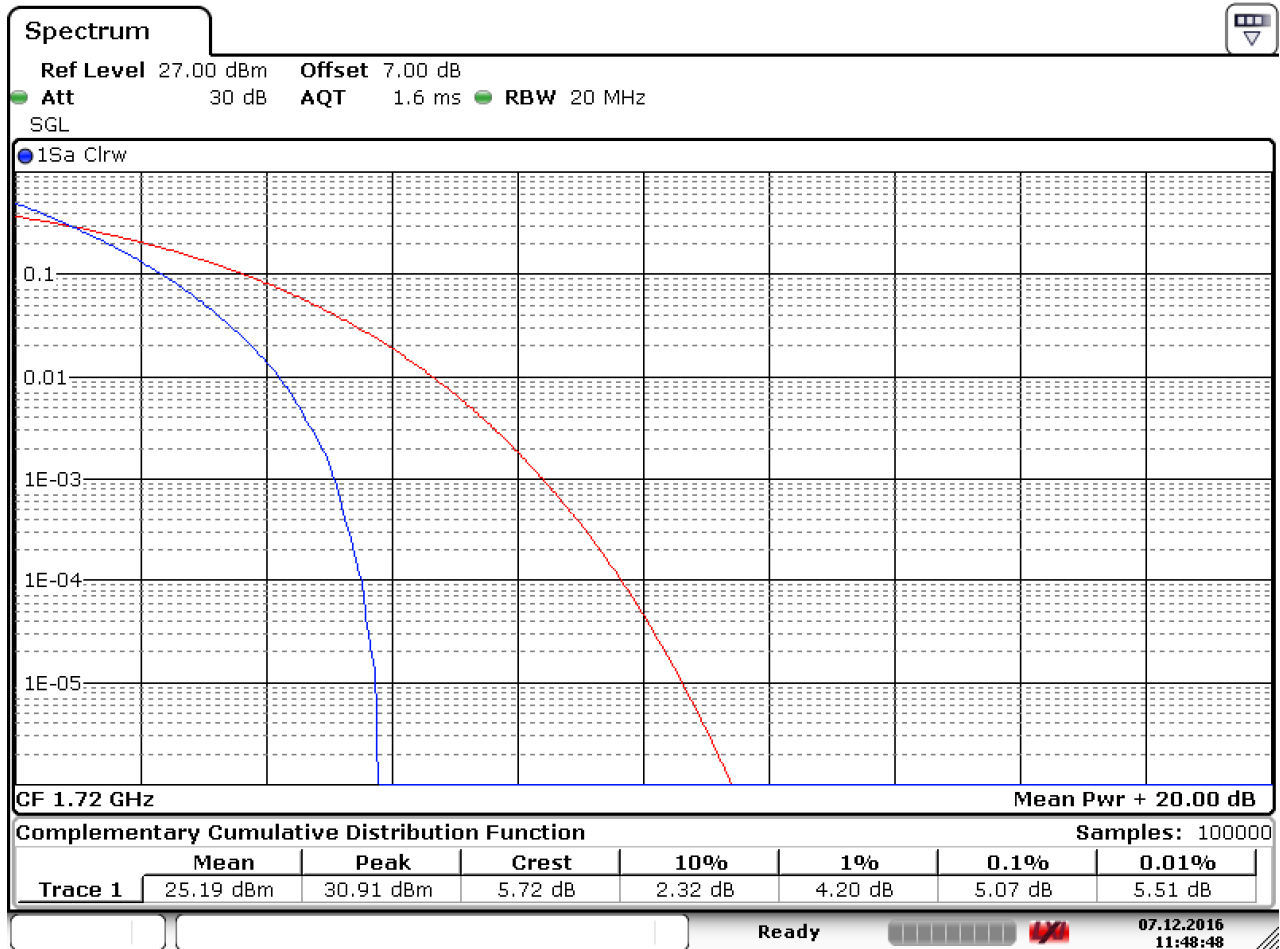
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band4

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz

2.1.1.1.1 Test Channel = LCH

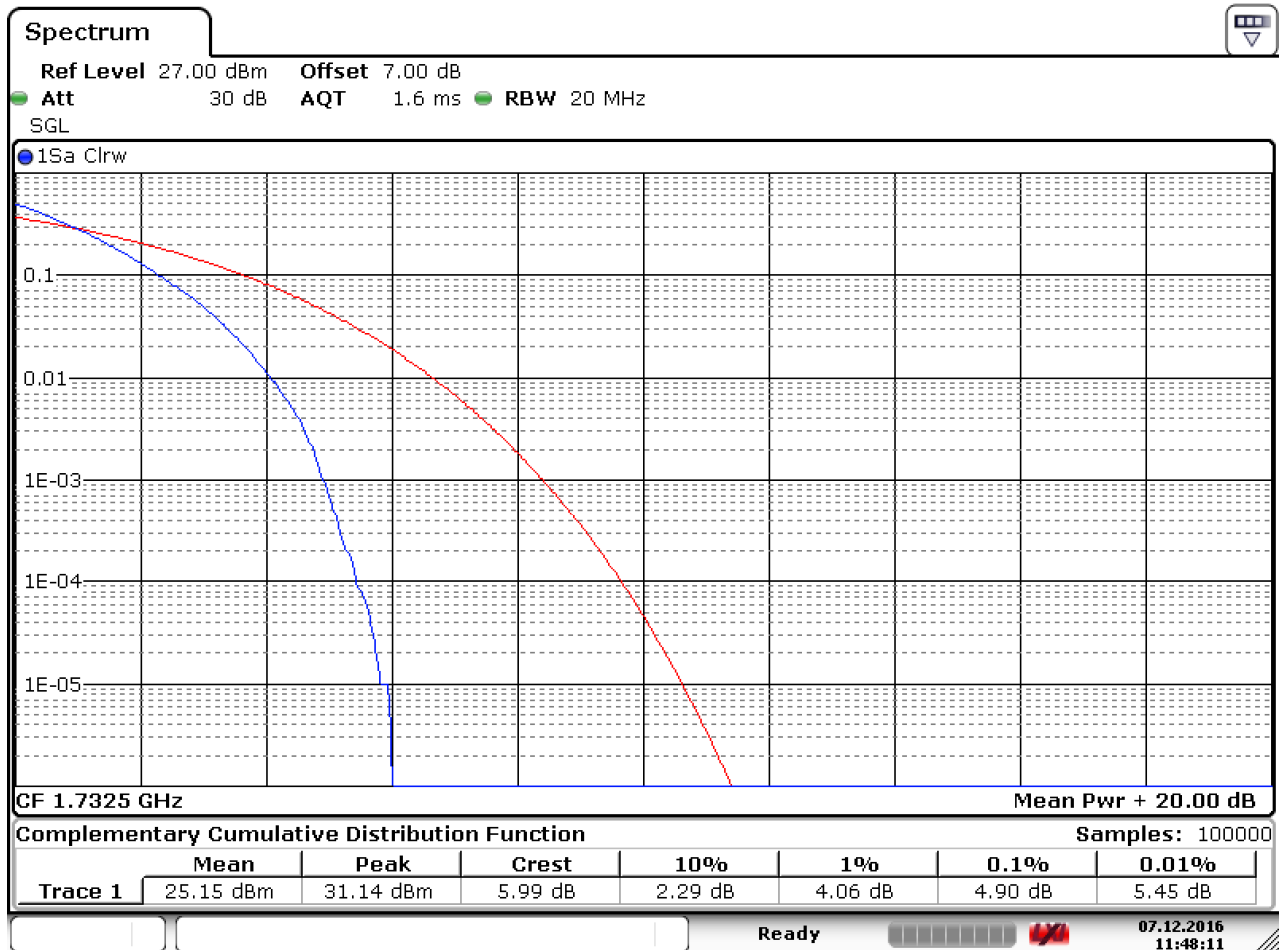


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2.1.1.1.2 Test Channel = MCH

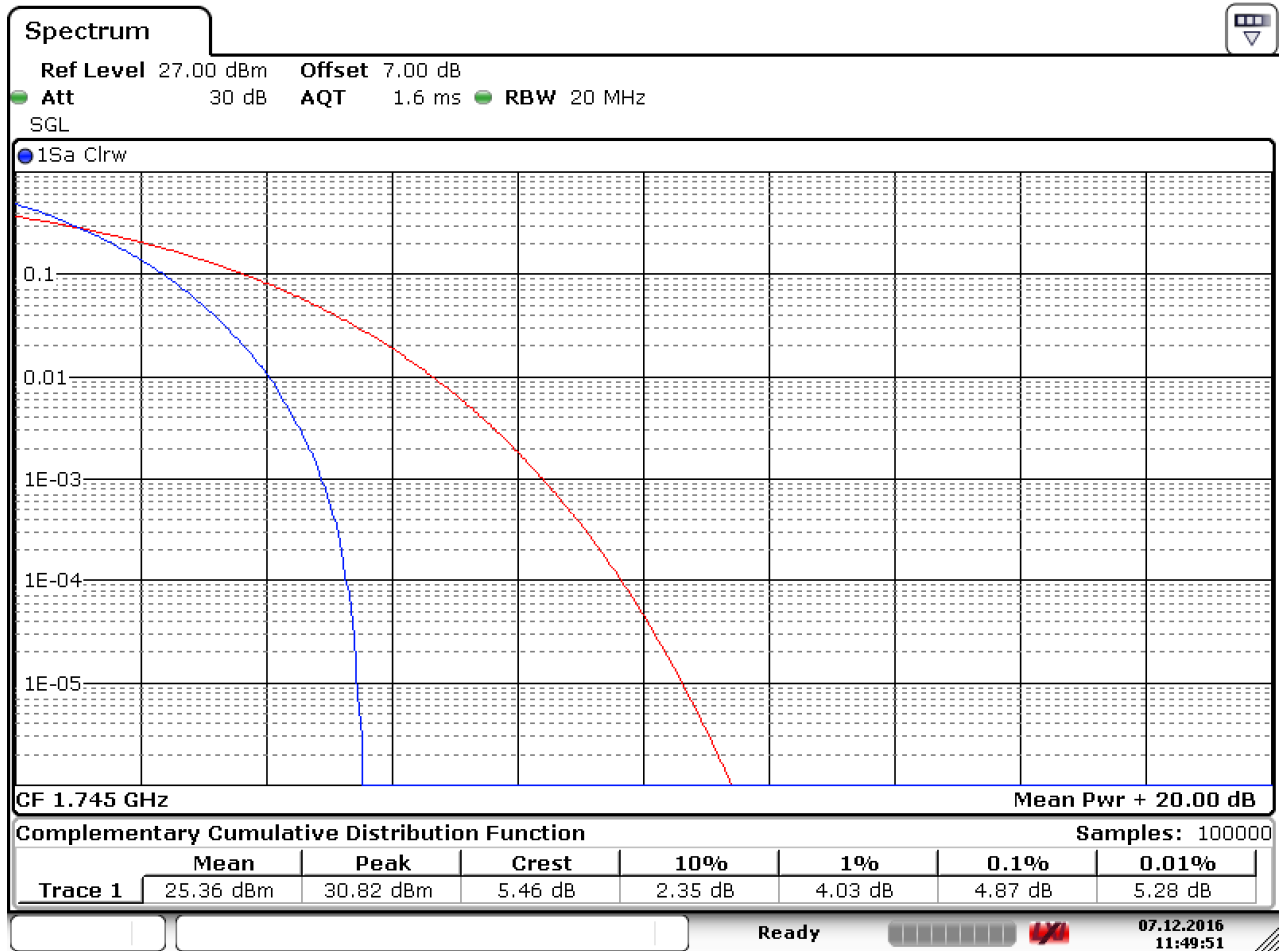


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2.1.1.1.3 Test Channel = HCH

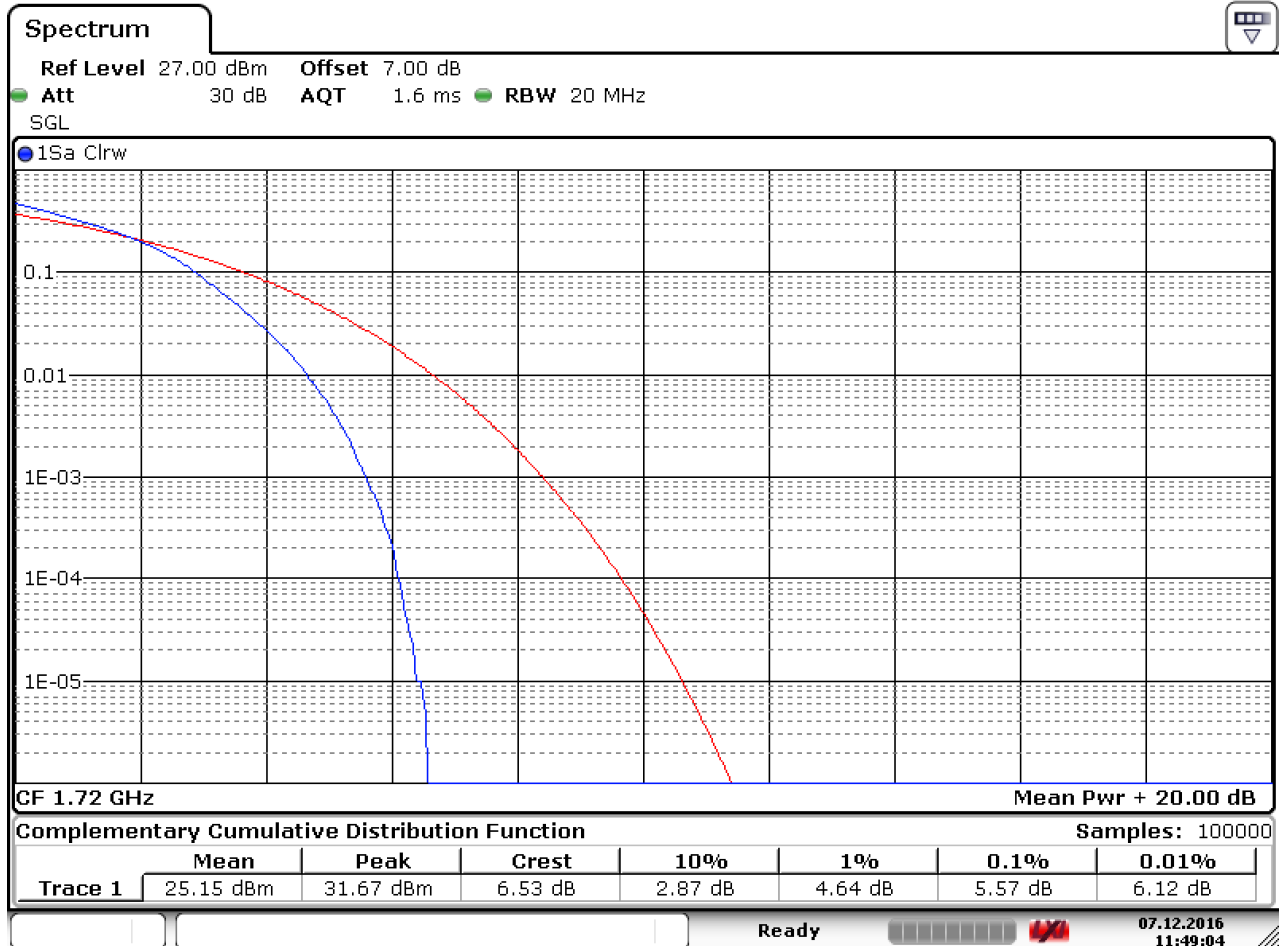


Date: 7.DEC.2016 11:49:51



2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz

2.1.1.2.1 Test Channel = LCH

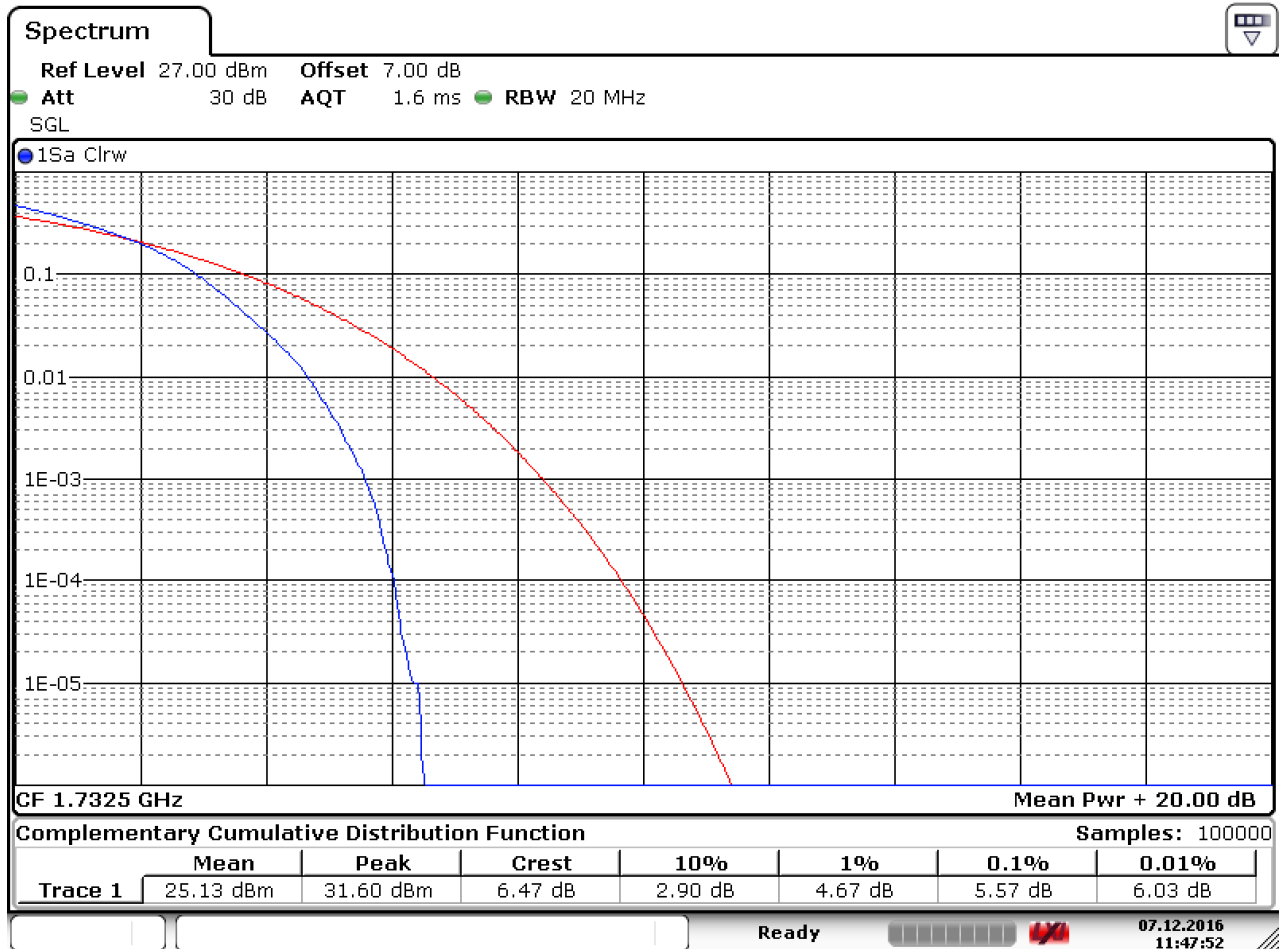


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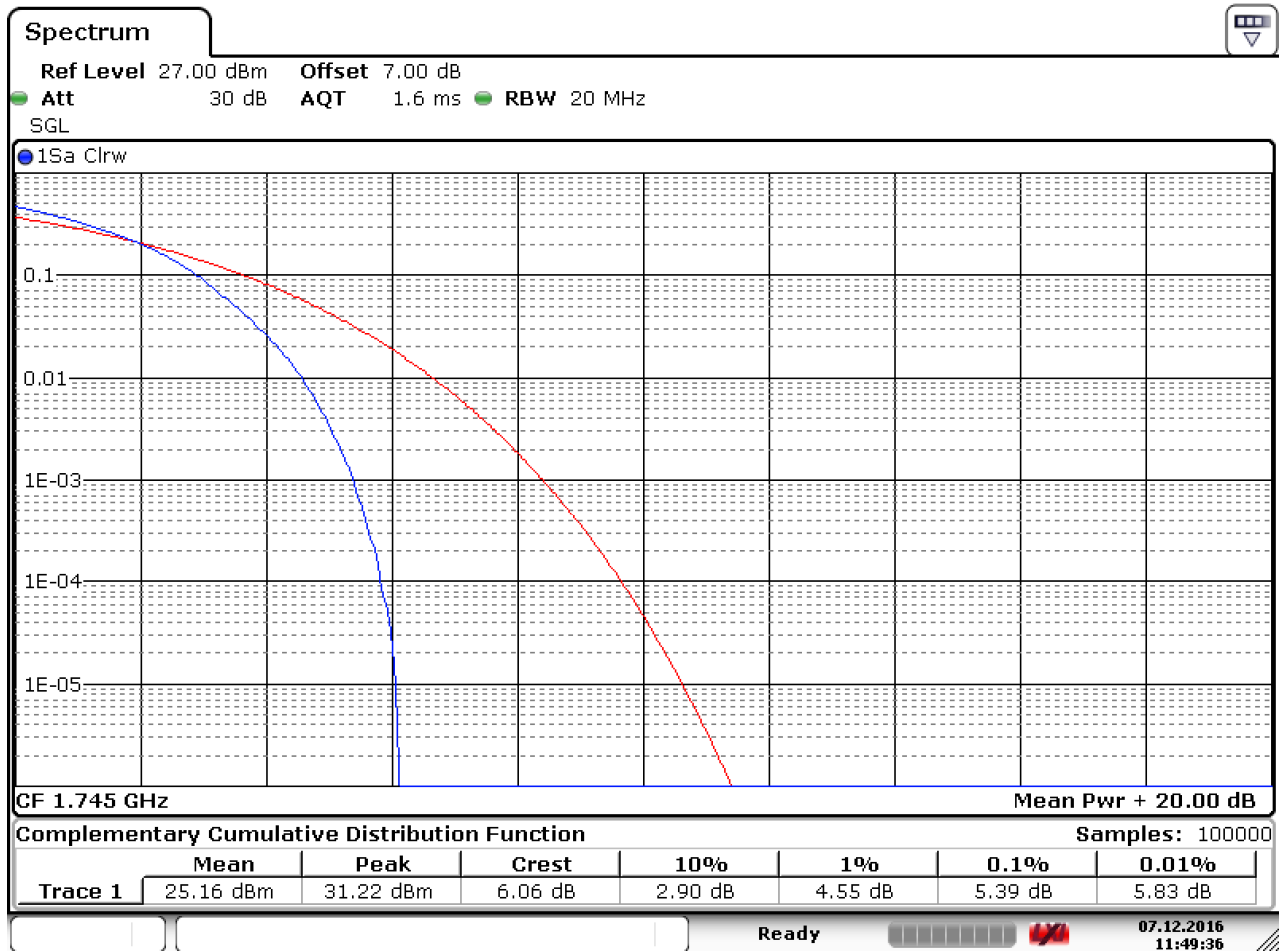
2.1.1.2.2 Test Channel = MCH



Date: 7.DEC.2016 11:47:53



2.1.1.2.3 Test Channel = HCH



Date: 7.DEC.2016 11:49:37

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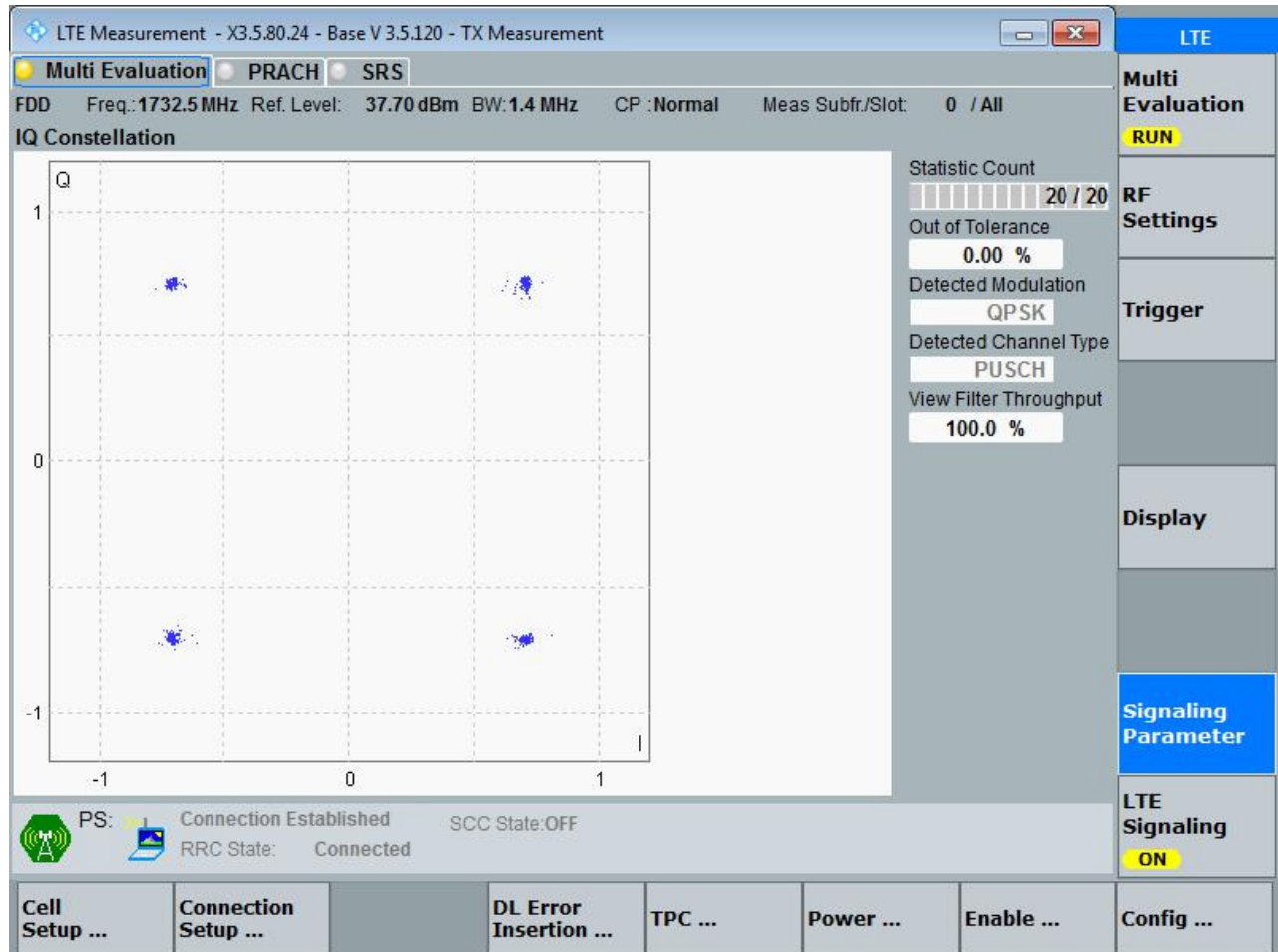
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band4

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

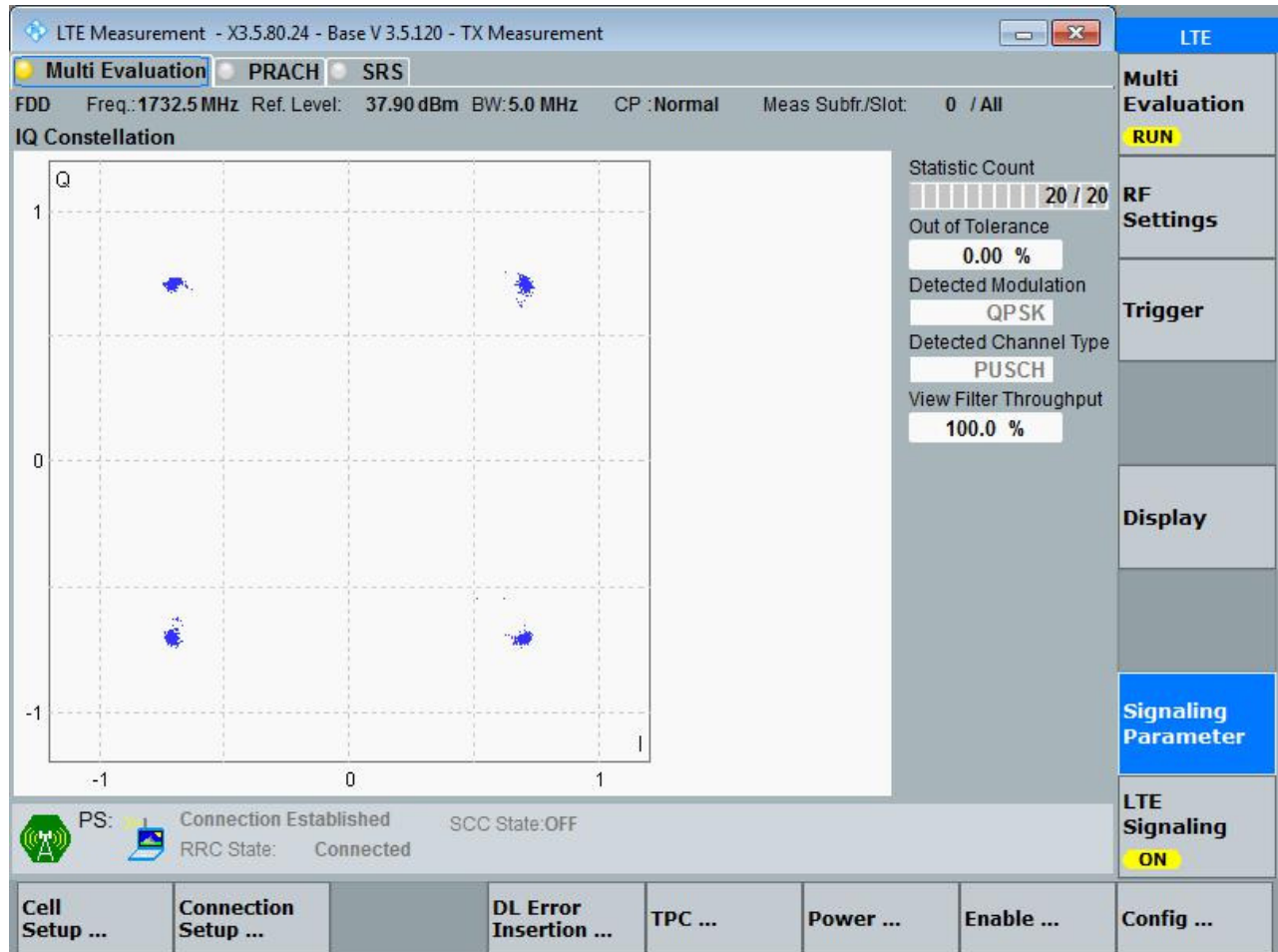
3.1.1.2.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab, with "PRACH" and "SRS" also visible. The interface shows the following parameters: FDD, Freq.: 1732.5 MHz, Ref. Level: 37.90 dBm, BW: 3.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All. 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 dots, representing the QPSK modulation scheme. To the right of the plot, a "Statistic Count" section shows a progress bar for 20 / 20 samples, with "Out of Tolerance" at 0.00%, "Detected Modulation" as QPSK, "Detected Channel Type" as PUSCH, and "View Filter Throughput" at 100.0%. The interface includes a sidebar on the right with buttons for "LTE", "Multi Evaluation", "RUN", "RF Settings", "Trigger", "Display", "Signaling Parameter", and "LTE Signaling ON". At the bottom, a status bar shows "PS: Connection Established", "SCC State: OFF", and "RRC State: Connected". A bottom toolbar contains buttons for "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

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab, with "PRACH" and "SRS" also visible. The interface shows the following parameters: FDD, Freq.: 1732.5 MHz, Ref. Level: 37.90 dBm, BW: 10.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a QPSK modulation scheme with four clusters of points in the I-Q plane. The right-hand side of the interface contains a "Statistic Count" section with a progress bar for 20 / 20 samples, an "Out of Tolerance" value of 35.00 %, "Detected Modulation" of QPSK, "Detected Channel Type" of PUSCH, and a "View Filter Throughput" of 100.0 %. The bottom status bar indicates "PS: Connection Established", "RRC State: Connected", and "SCC State: OFF". The bottom-most row contains several menu items: "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".



3.1.1.5 Test Mode = LTE /TM1 15MHz

3.1.1.5.1 Test Channel = MCH

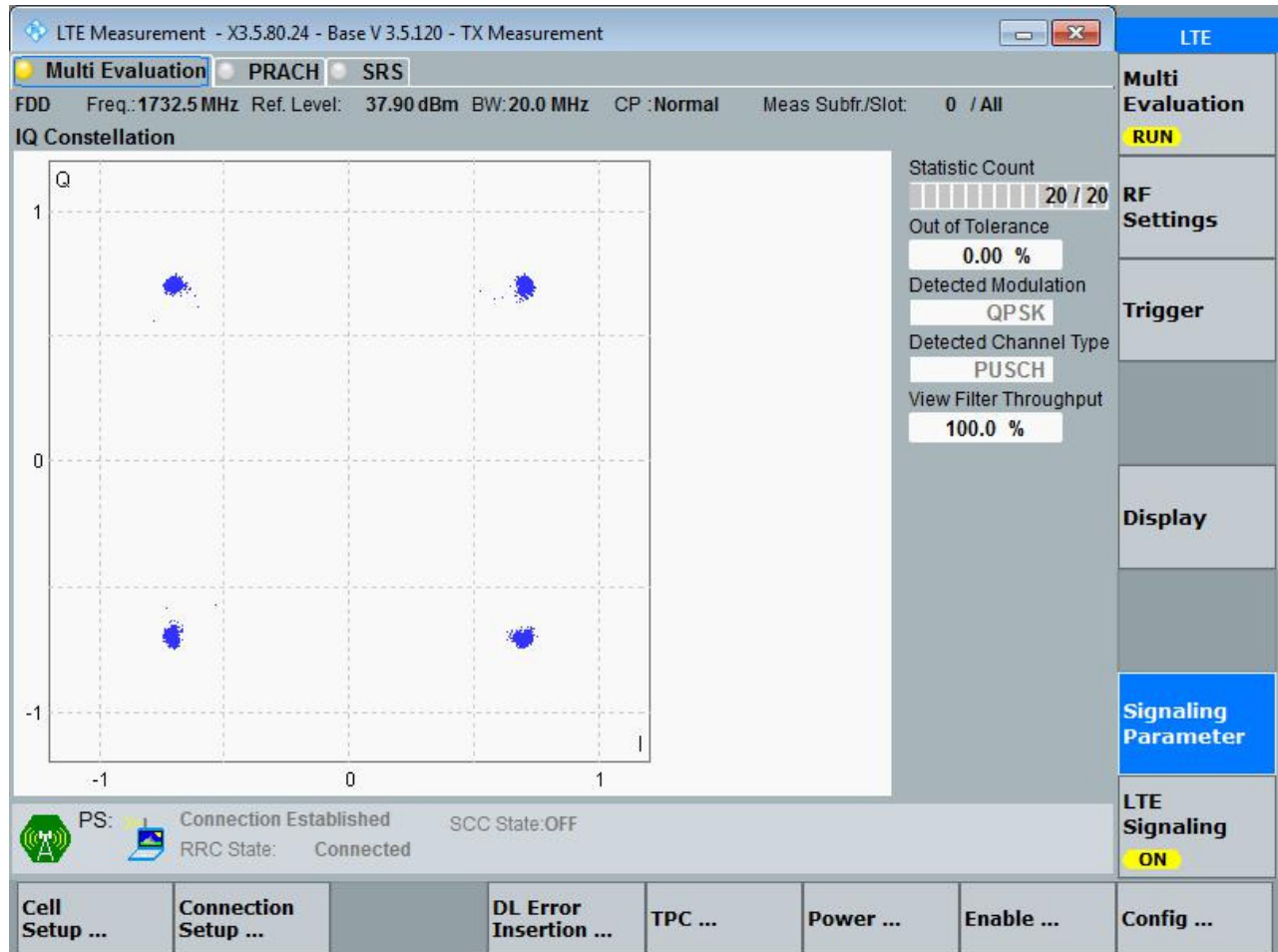
The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement'. The interface is divided into several sections:

- Top Bar:** Shows 'Multi Evaluation' (selected), 'PRACH', and 'SRS' tabs. Below this, it displays 'FDD', 'Freq.: 1732.5 MHz', 'Ref. Level: 38.00 dBm', 'BW: 15.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 0 / All'.
- IQ Constellation Plot:** A scatter plot with 'Q' on the vertical axis and 'I' on the horizontal axis, both ranging from -1 to 1. It shows four distinct clusters of blue data points, representing the four quadrants of a QPSK modulation scheme.
- Statistic Count:** A progress bar showing '20 / 20'.
- Out of Tolerance:** A field showing '0.00 %'.
- Detected Modulation:** A dropdown menu showing 'QPSK'.
- Detected Channel Type:** A dropdown menu showing 'PUSCH'.
- View Filter Throughput:** A field showing '100.0 %'.
- Right-Handed Panel:** A vertical sidebar with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling'. The 'RUN' and 'LTE Signaling' buttons are highlighted in yellow.
- Bottom Status Bar:** Shows 'PS: Connection Established', 'SCC State: OFF', 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 /TM1 20MHz

3.1.1.6.1 Test Channel = MCH

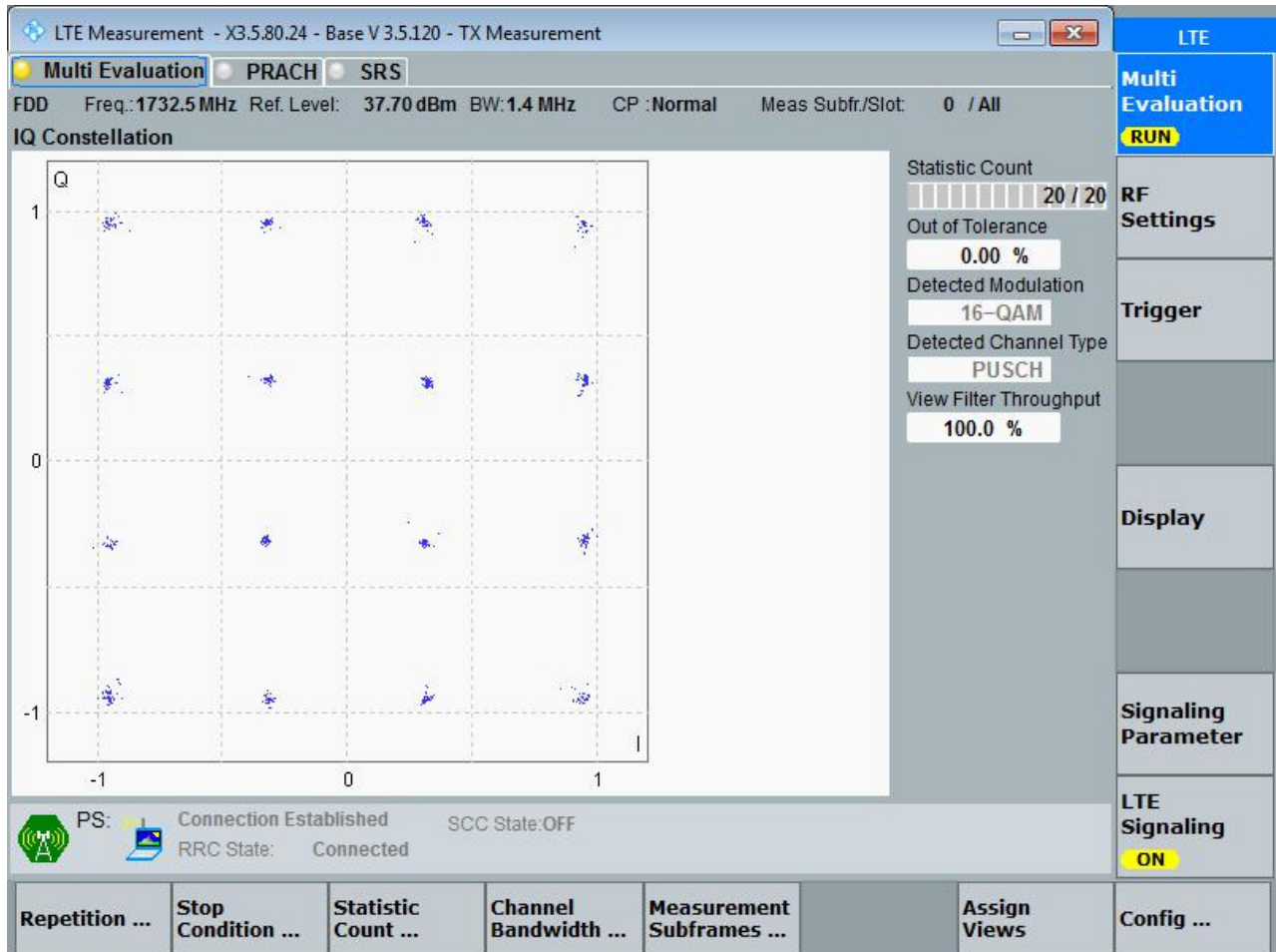


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3.1.1.7 Test Mode = LTE /TM2 1.4MHz

3.1.1.7.1 Test Channel = MCH



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3.1.1.8 Test Mode = LTE /TM2 3MHz

3.1.1.8.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters: FDD, Freq.: 1732.5 MHz, Ref. Level: 37.90 dBm, BW: 3.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a 16-QAM constellation with points clustered around the center. The "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 "PS" icon, "Connection Established", "SCC State: OFF", 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 ...".



3.1.1.9 Test Mode = LTE /TM2 5MHz

3.1.1.9.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. At the top, it shows 'LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement'. Below this, there are tabs for 'Multi Evaluation', 'PRACH', and 'SRS'. The main display area is titled 'IQ Constellation' and shows a scatter plot of IQ data points forming a 16-QAM constellation. To the right of the plot, there are several statistics: 'Statistic Count' (20 / 20), 'Out of Tolerance' (0.00 %), 'Detected Modulation' (16-QAM), 'Detected Channel Type' (PUSCH), and 'View Filter Throughput' (100.0 %). At the bottom of the interface, there are status indicators for 'PS: Connection Established', 'SCC State: OFF', and 'RRC State: Connected'. A bottom toolbar contains buttons for 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'. On the far right, there is a vertical sidebar with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'.

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3.1.1.10 Test Mode = LTE /TM2 10MHz

3.1.1.10.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following parameters:

- FDD Freq.: 1732.5 MHz
- Ref. Level: 37.90 dBm
- BW: 10.0 MHz
- CP: Normal
- Meas Subfr./Slot: 0 / All

The "IQ Constellation" plot shows a 16-QAM modulation scheme with 16 distinct clusters of blue dots arranged in a 4x4 grid. The axes are labeled "Q" (vertical) and "I" (horizontal), both ranging from -1 to 1.

On the right side, the "Statistic Count" is 20 / 20. The "Out of Tolerance" is 0.00%. The "Detected Modulation" is 16-QAM, and the "Detected Channel Type" is PUSCH. The "View Filter Throughput" is 100.0%.

The bottom status bar indicates "PS: Connection Established" and "RRC State: Connected". The "LTE Signaling" is shown as "ON".

At the bottom, there is a row of buttons: "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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3.1.1.11 Test Mode = LTE /TM2 15MHz

3.1.1.11.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following details:

- IQ Constellation:** A scatter plot showing the distribution of signal points in the IQ plane, with axes ranging from -1 to 1. The points are clustered around the 16-QAM constellation.
- Statistic Count:** 20 / 20
- Out of Tolerance:** 0.00 %
- Detected Modulation:** 16-QAM
- Detected Channel Type:** PUSCH
- View Filter Throughput:** 100.0 %
- Status:** PS: Connection Established, SCC State: OFF, RRC State: Connected
- Buttons:** Multi Evaluation, PRACH, SRS, RUN, Signaling Parameter, LTE Signaling ON
- Bottom Panel:** Cell Setup ..., Connection Setup ..., DL Error Insertion ..., TPC ..., Power ..., Enable ..., Config ...

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3.1.1.12 Test Mode = LTE /TM2 20MHz

3.1.1.12.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The interface shows the following details:

- IQ Constellation:** A scatter plot showing the distribution of signal points in the IQ plane, with axes ranging from -1 to 1. The points are clustered around the 16-QAM constellation.
- Statistic Count:** 10 / 20
- Out of Tolerance:** 0.00 %
- Detected Modulation:** 16-QAM
- Detected Channel Type:** PUSCH
- View Filter Throughput:** 100.0 %

At the bottom of the interface, the connection status is shown as "PS: Connection Established" and "RRC State: Connected". The "LTE Signaling" is set to "ON". A bottom toolbar contains buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 4	TM1/1.4MHz	LCH	1.10	1.28	PASS
		MCH	1.09	1.27	PASS
		HCH	1.10	1.29	PASS
	TM2/1.4MHz	LCH	1.10	1.29	PASS
		MCH	1.09	1.28	PASS
		HCH	1.10	1.27	PASS
	TM1/ 3MHz	LCH	2.69	2.90	PASS
		MCH	2.69	2.91	PASS
		HCH	2.68	2.91	PASS
	TM2/3MHz	LCH	2.69	2.92	PASS
		MCH	2.69	2.93	PASS
		HCH	2.69	2.91	PASS
	TM1/ 5MHz	LCH	4.50	4.97	PASS
		MCH	4.50	4.99	PASS
		HCH	4.48	4.98	PASS
	TM2/ 5MHz	LCH	4.49	5.01	PASS
		MCH	4.49	4.96	PASS
		HCH	4.49	5.02	PASS
	TM1/10MHz	LCH	8.93	9.71	PASS
		MCH	8.97	9.84	PASS
		HCH	8.93	9.71	PASS
	TM2/ 10MHz	LCH	8.93	9.75	PASS
		MCH	8.95	9.70	PASS
		HCH	8.93	9.73	PASS
	TM1/ 15MHz	LCH	13.46	14.93	PASS
		MCH	13.52	14.98	PASS
		HCH	13.49	14.99	PASS
TM2/ 15MHz	LCH	13.52	14.90	PASS	
	MCH	13.52	14.89	PASS	
	HCH	13.52	15.02	PASS	

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**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

Report No.: SZEM161000916605

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Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
	TM1/ 20MHz	LCH	17.90	19.38	PASS
		MCH	17.94	19.48	PASS
		HCH	17.94	19.72	PASS
	TM2/ 20MHz	LCH	17.90	19.66	PASS
		MCH	17.98	19.44	PASS
		HCH	17.94	19.56	PASS

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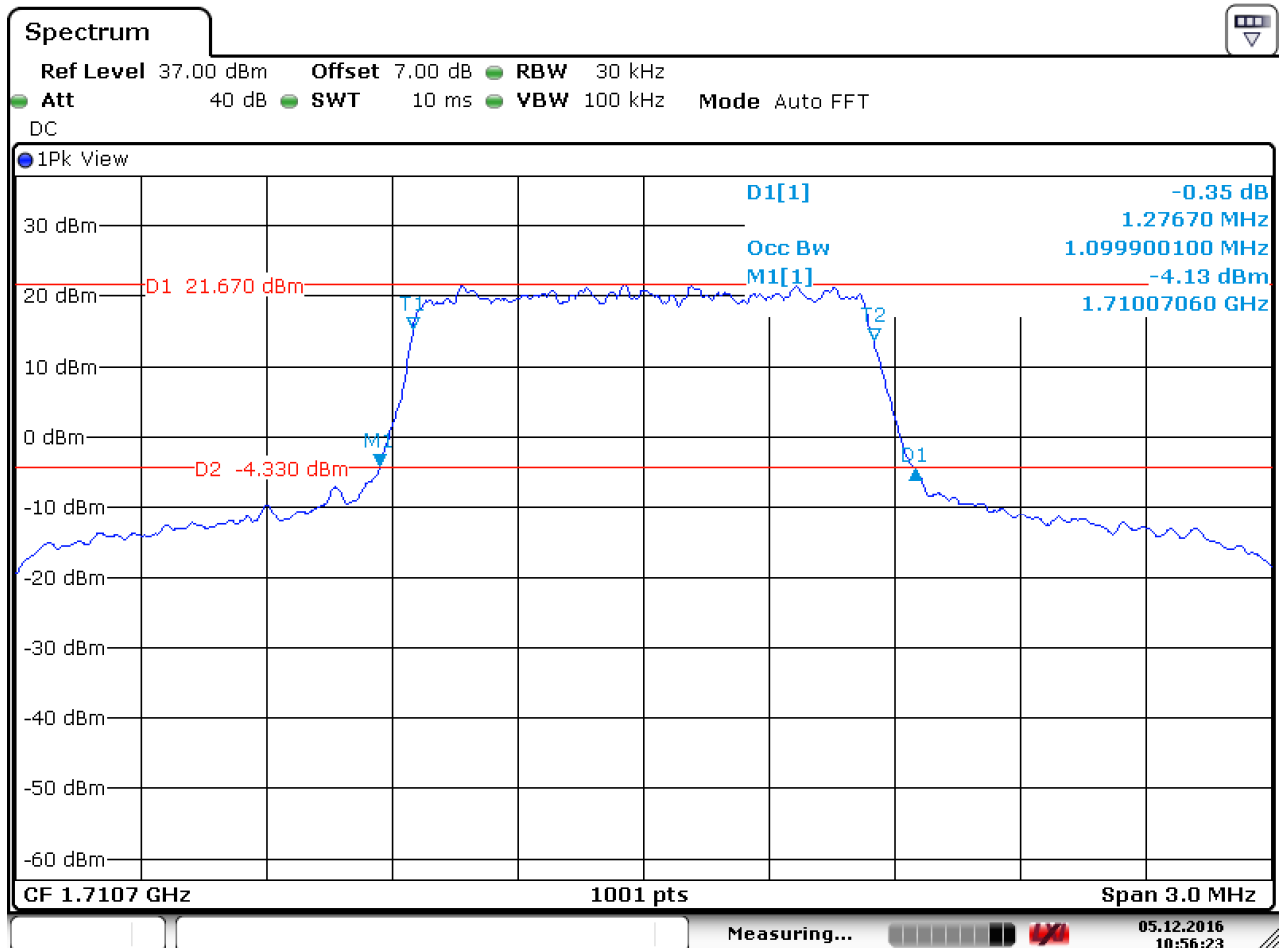
Part II –Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band4

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH

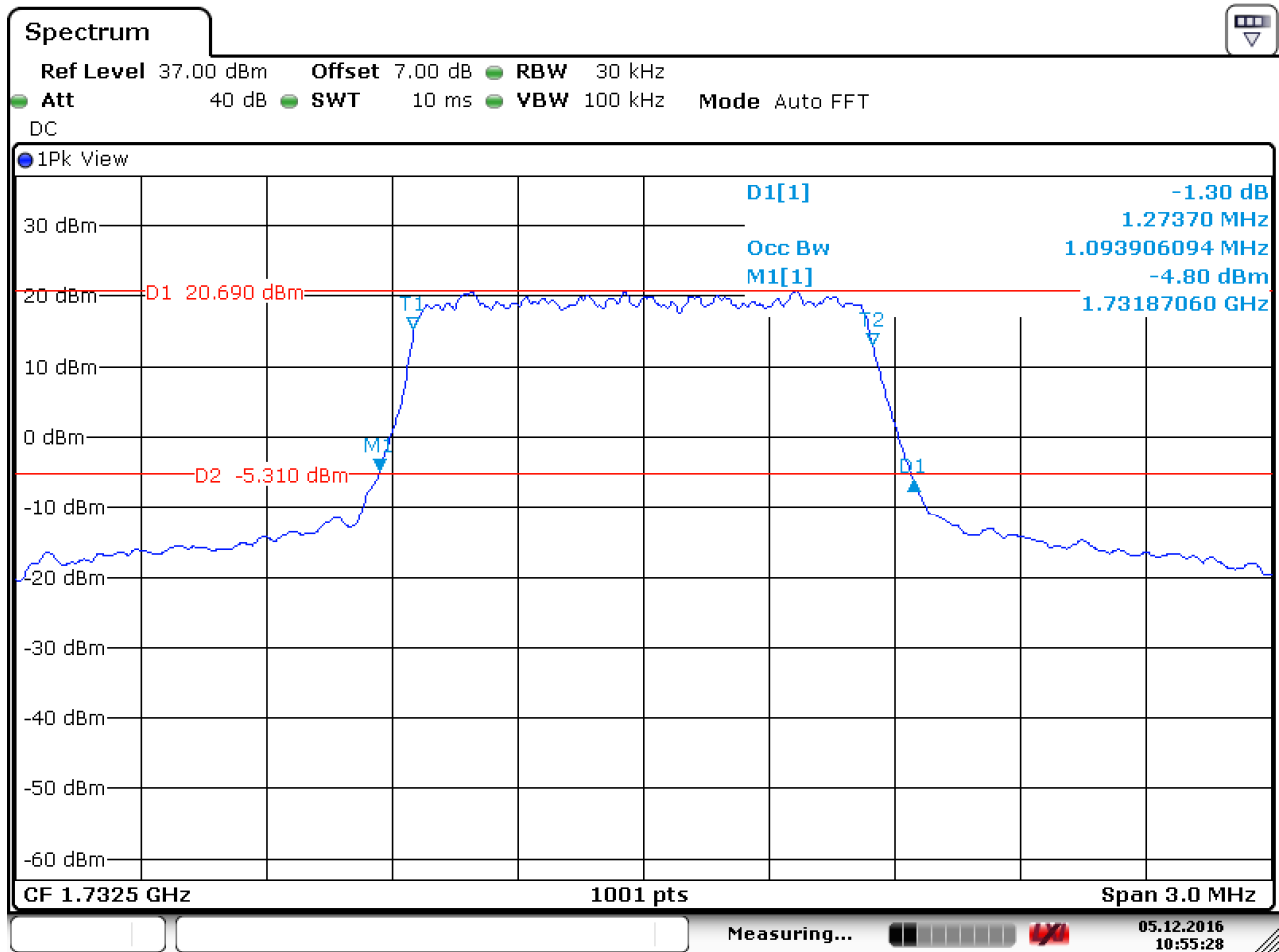


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4.1.1.1.2 Test Channel = MCH

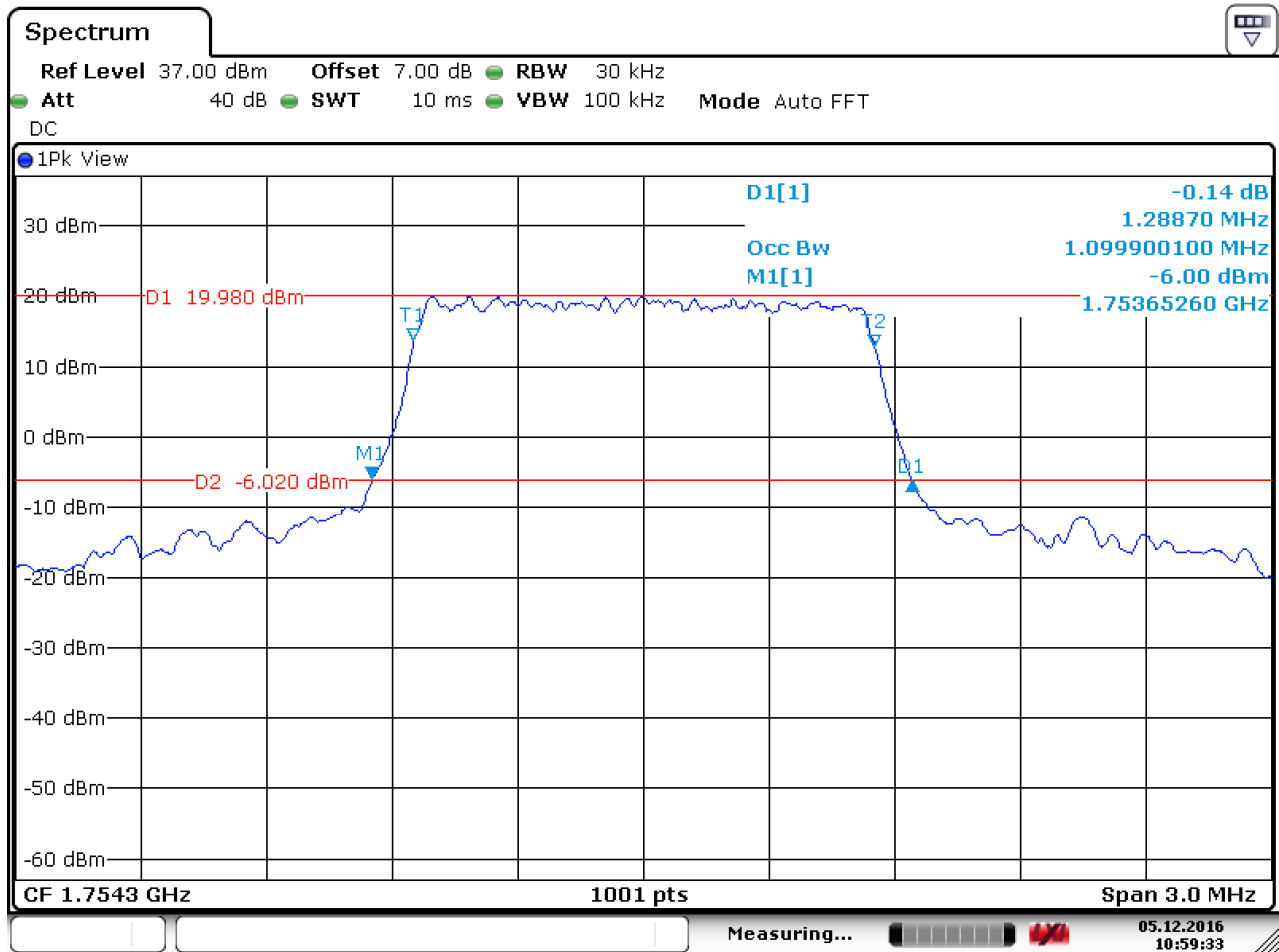


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4.1.1.1.3 Test Channel = HCH



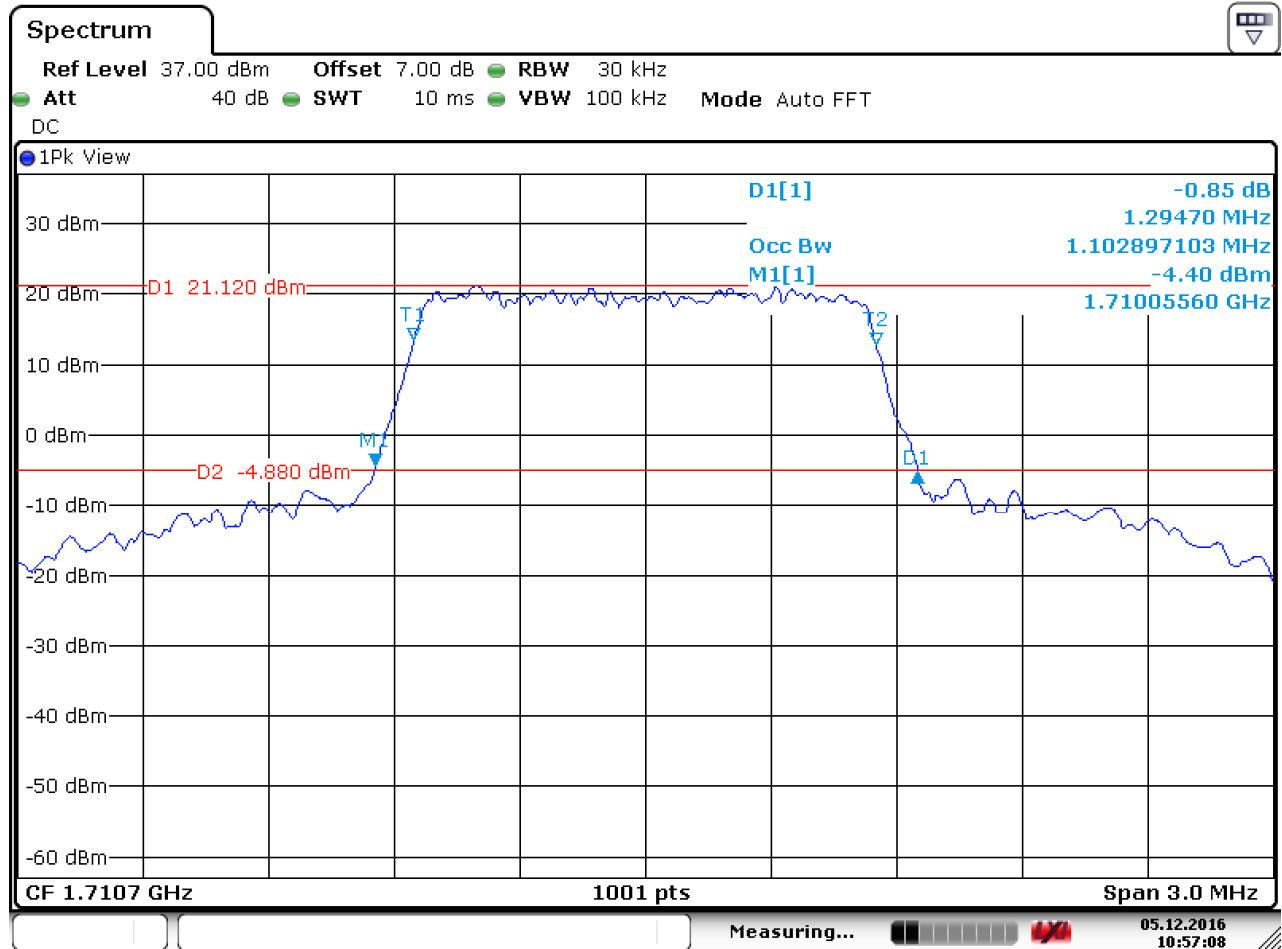
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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH

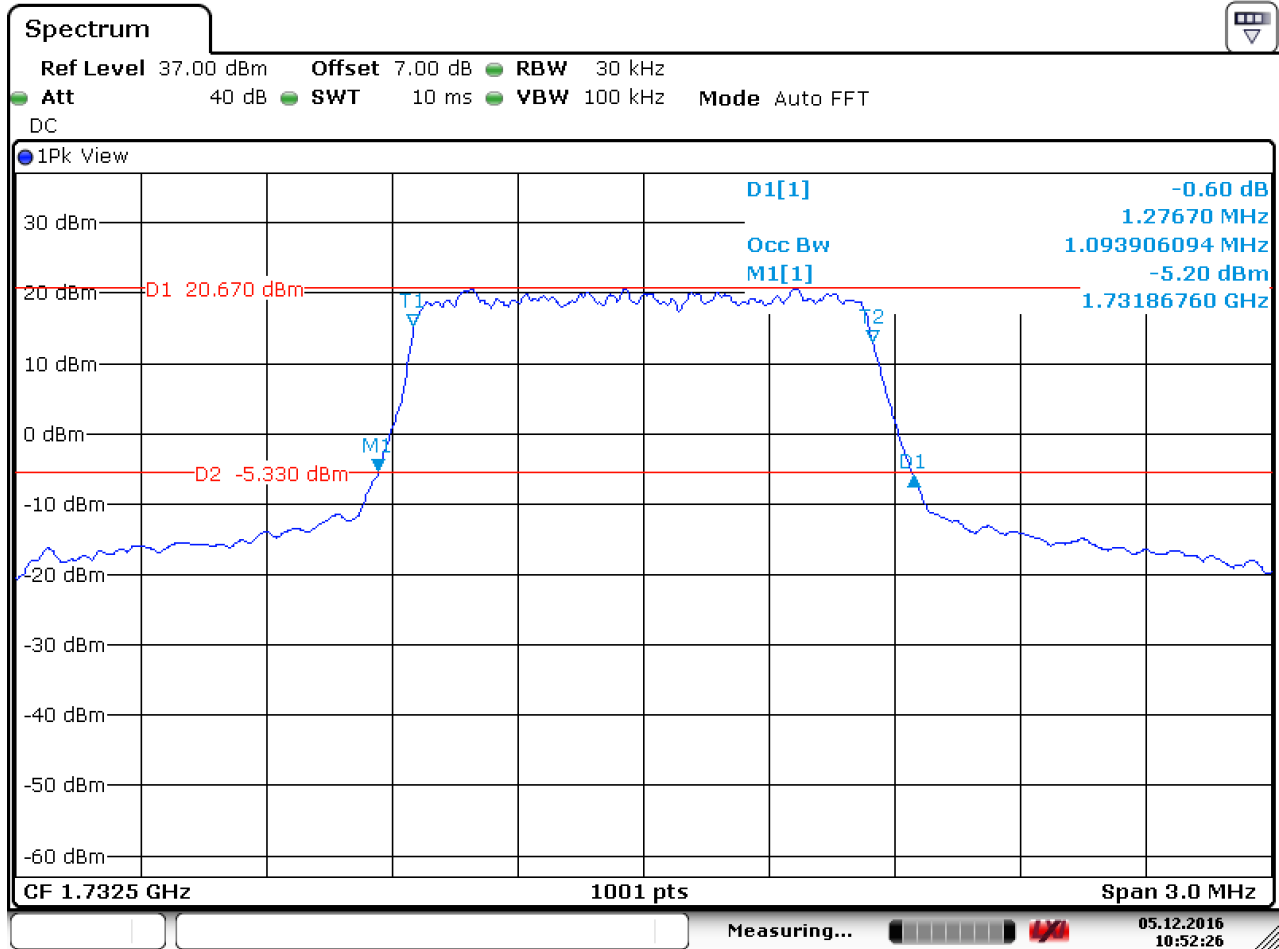


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4.1.1.2.2 Test Channel = MCH

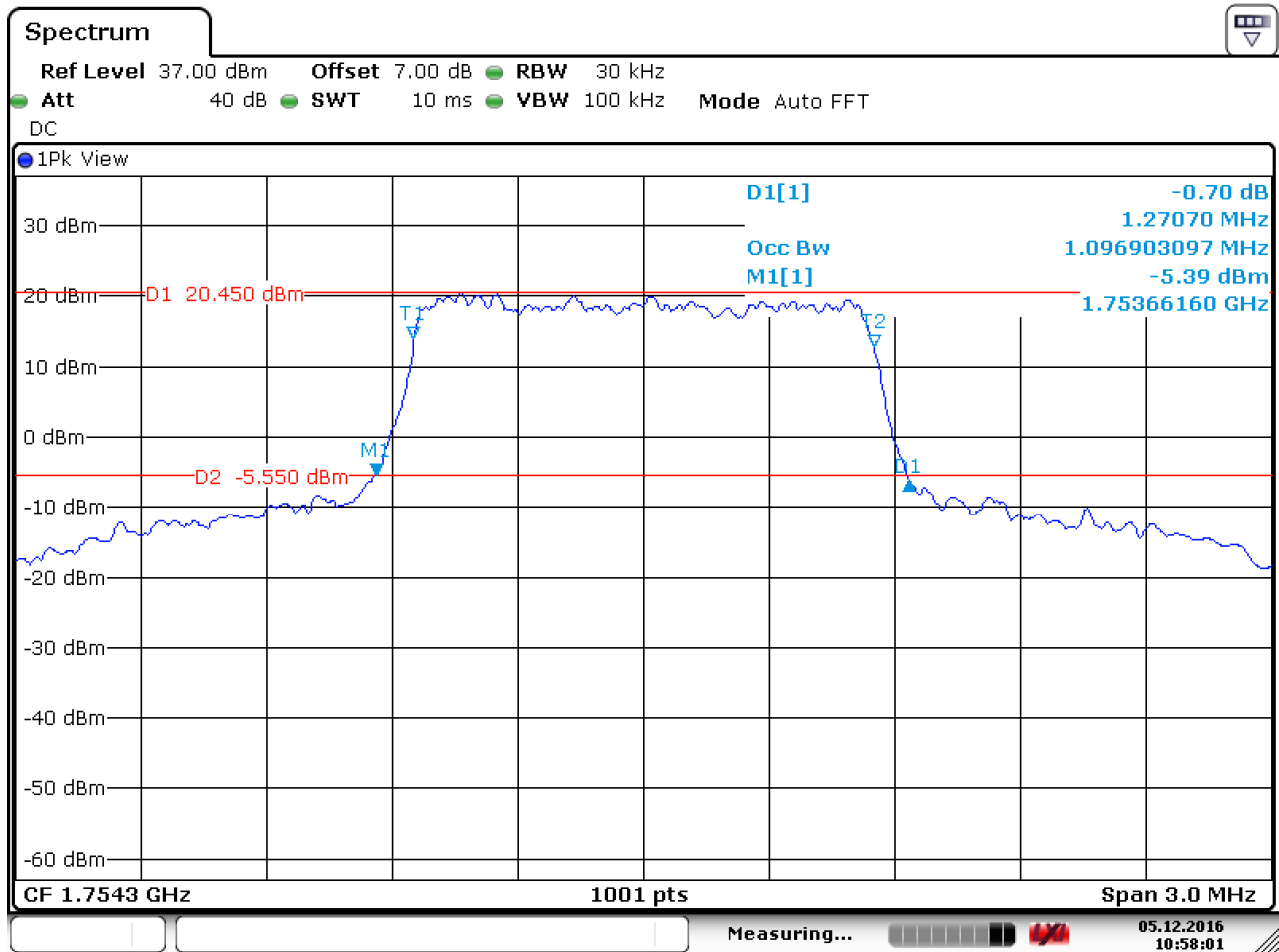


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4.1.1.2.3 Test Channel = HCH



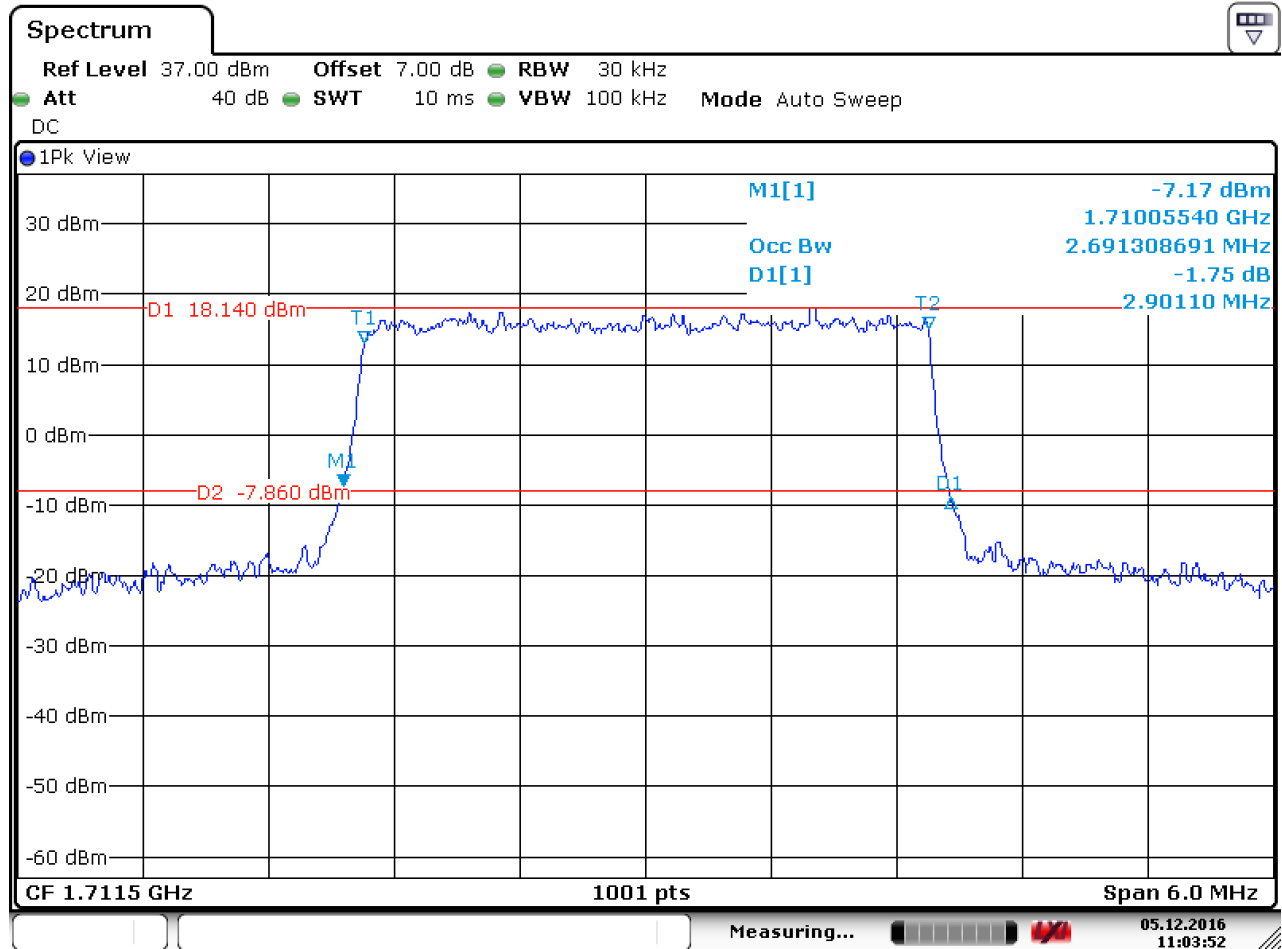
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4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH

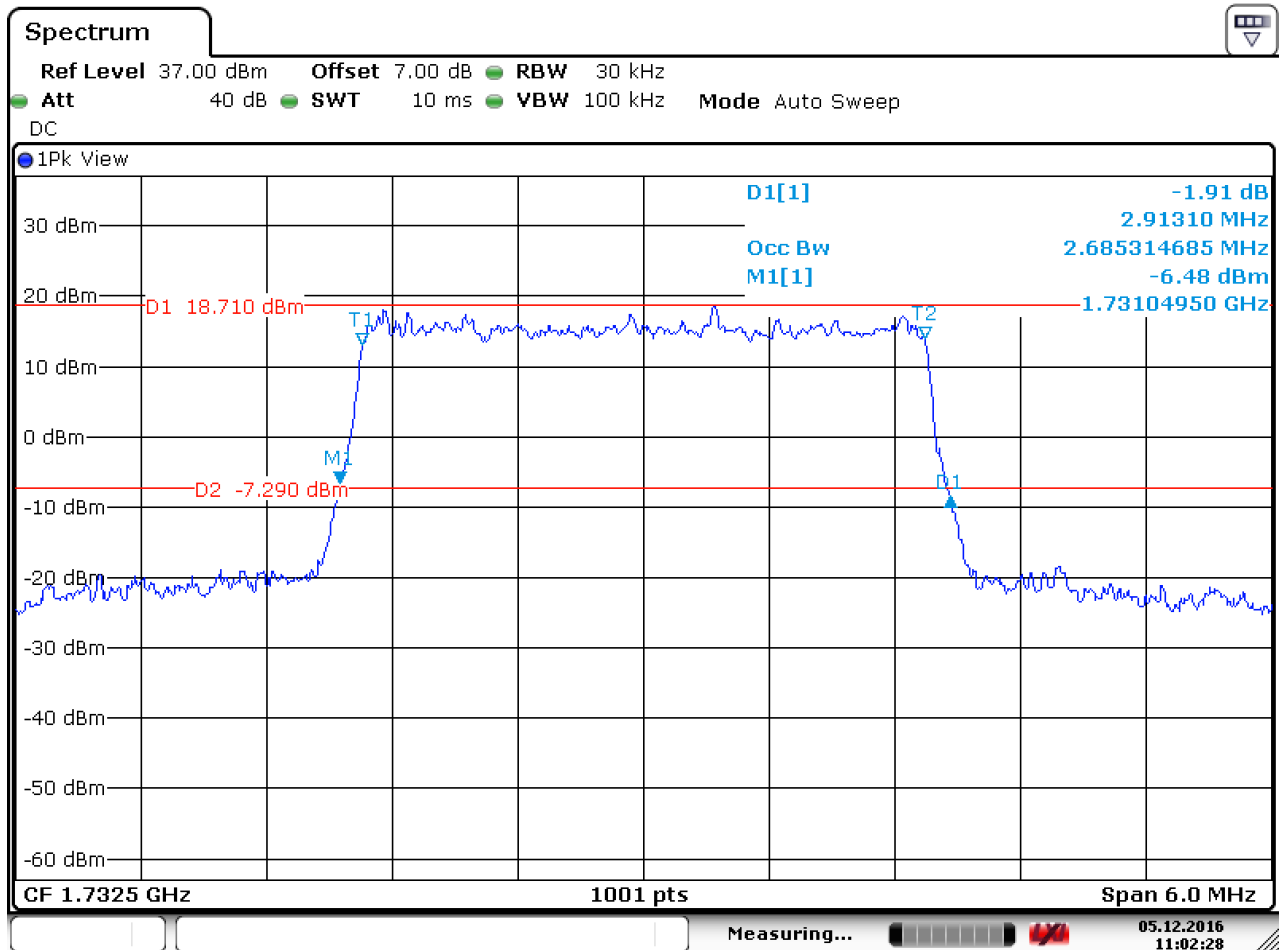


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4.1.1.3.2 Test Channel = MCH

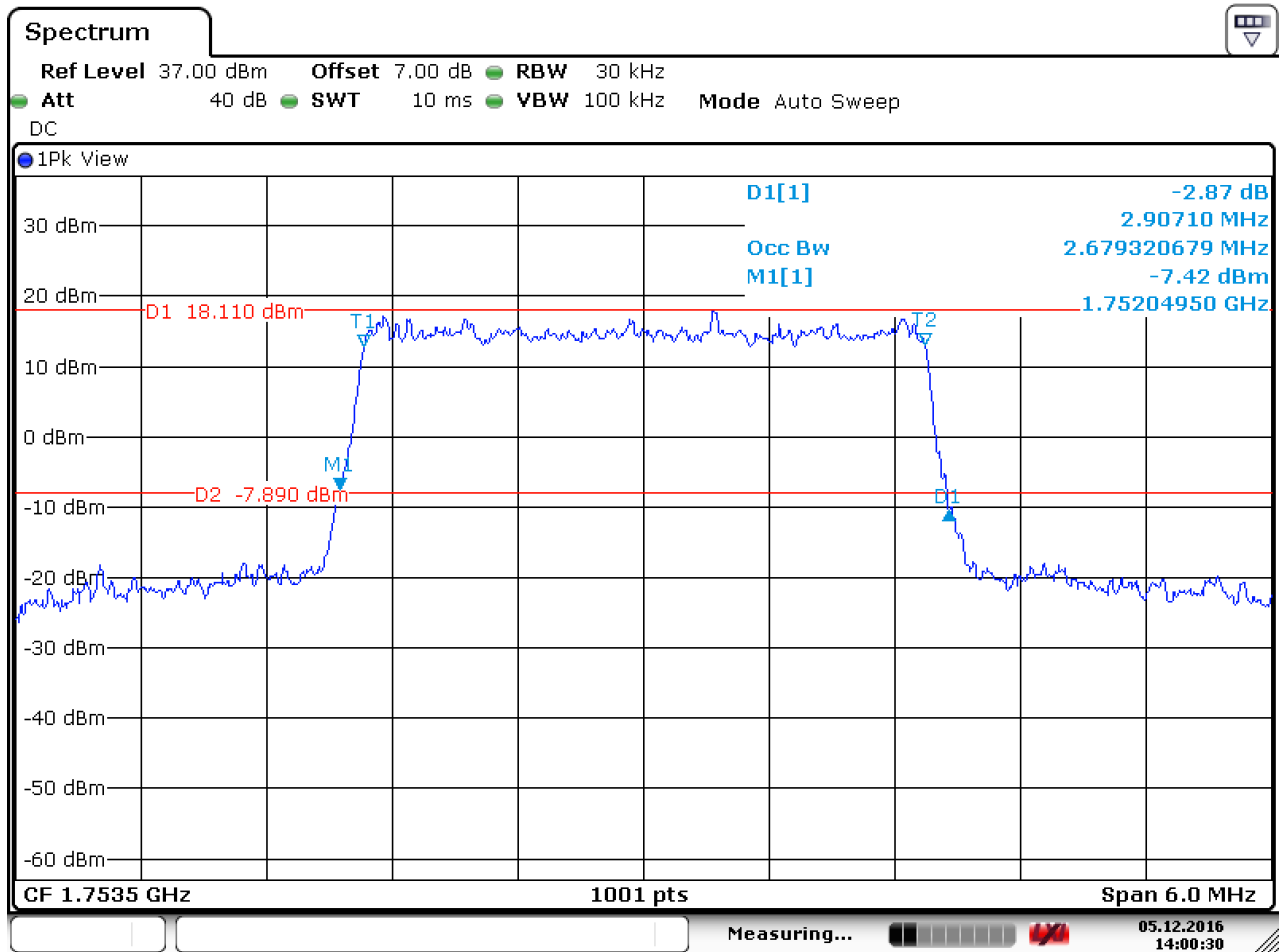


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4.1.1.3.3 Test Channel = HCH

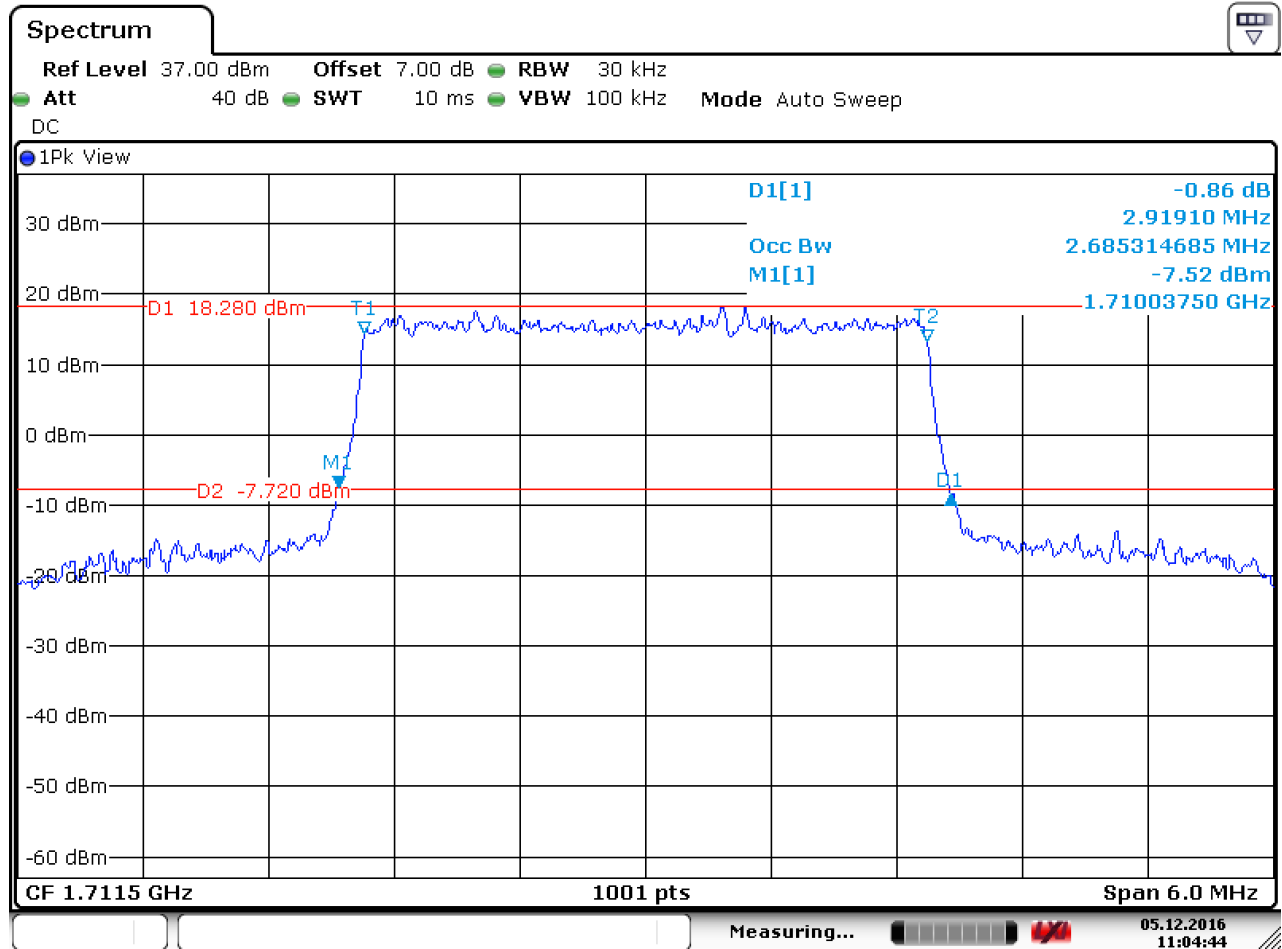


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4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH

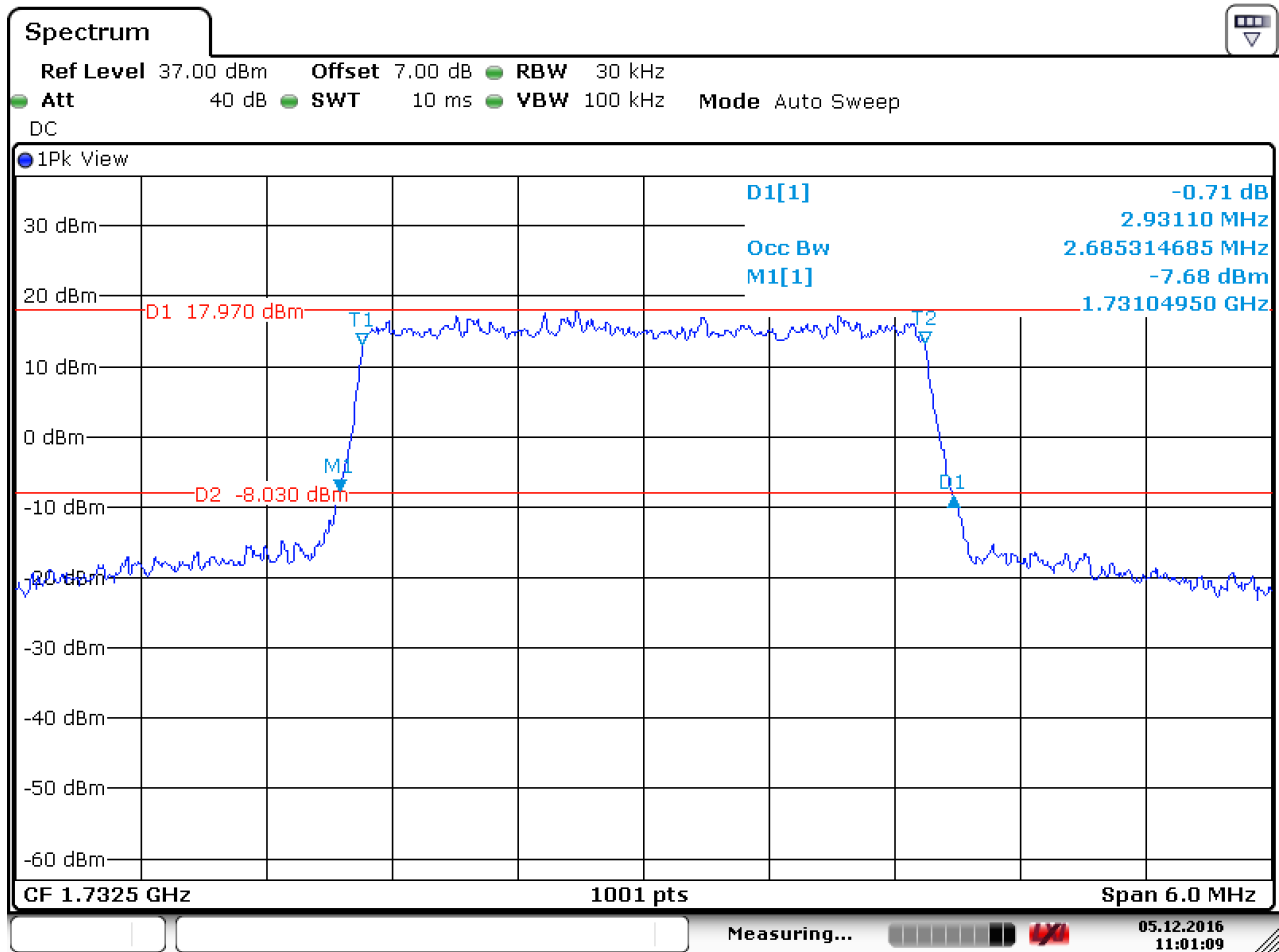


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4.1.1.4.2 Test Channel = MCH

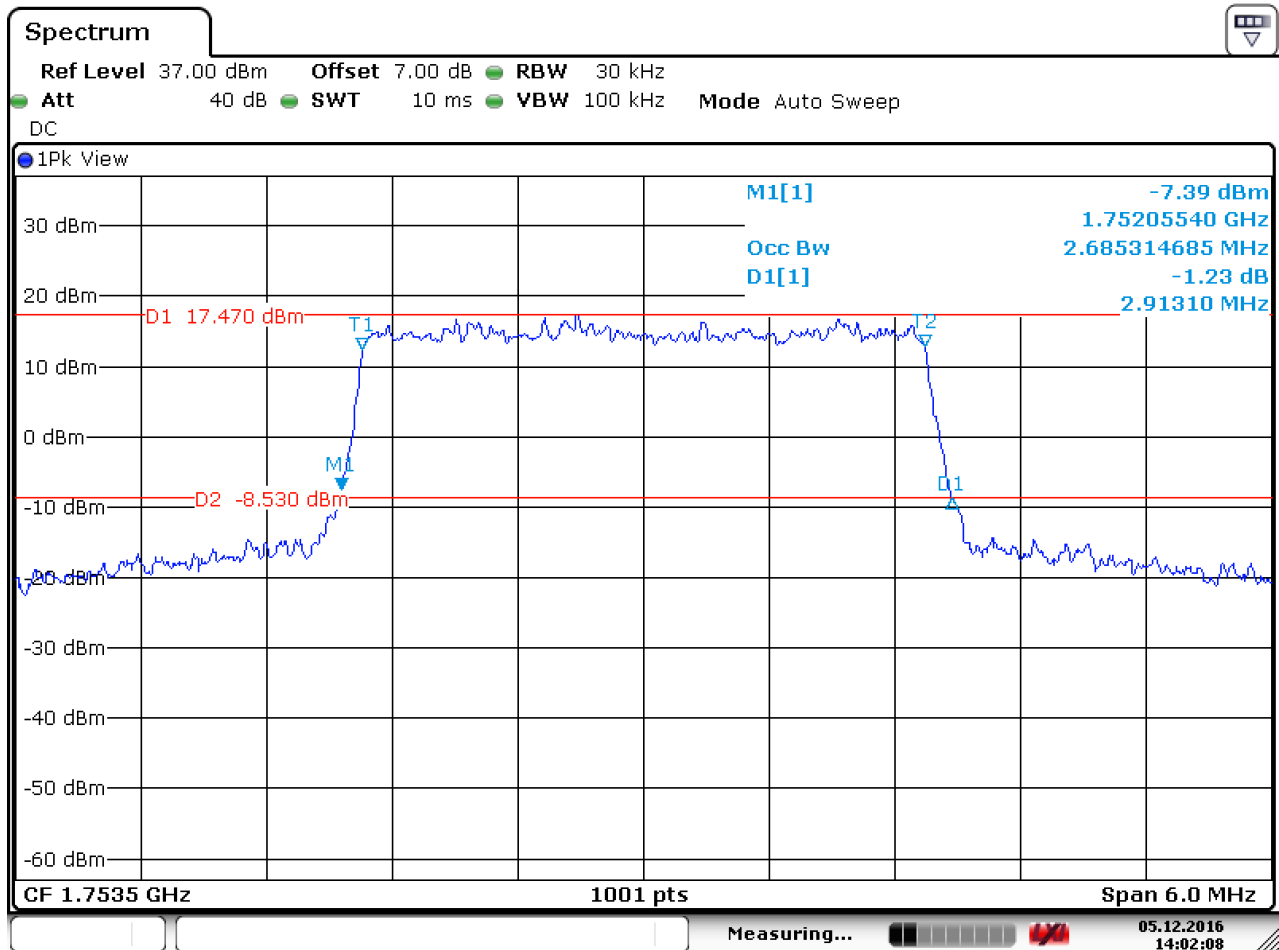


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4.1.1.4.3 Test Channel = HCH



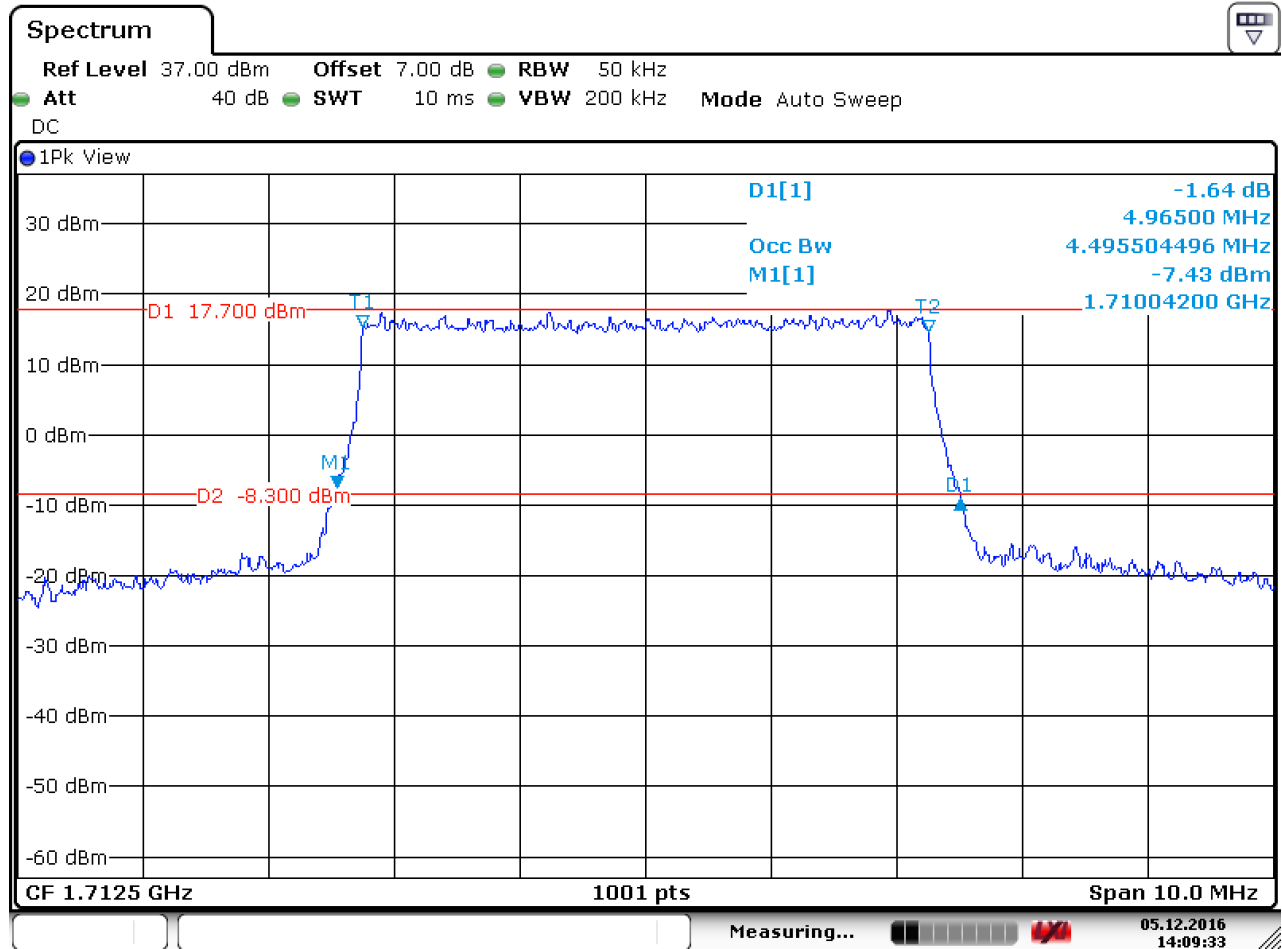
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4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH

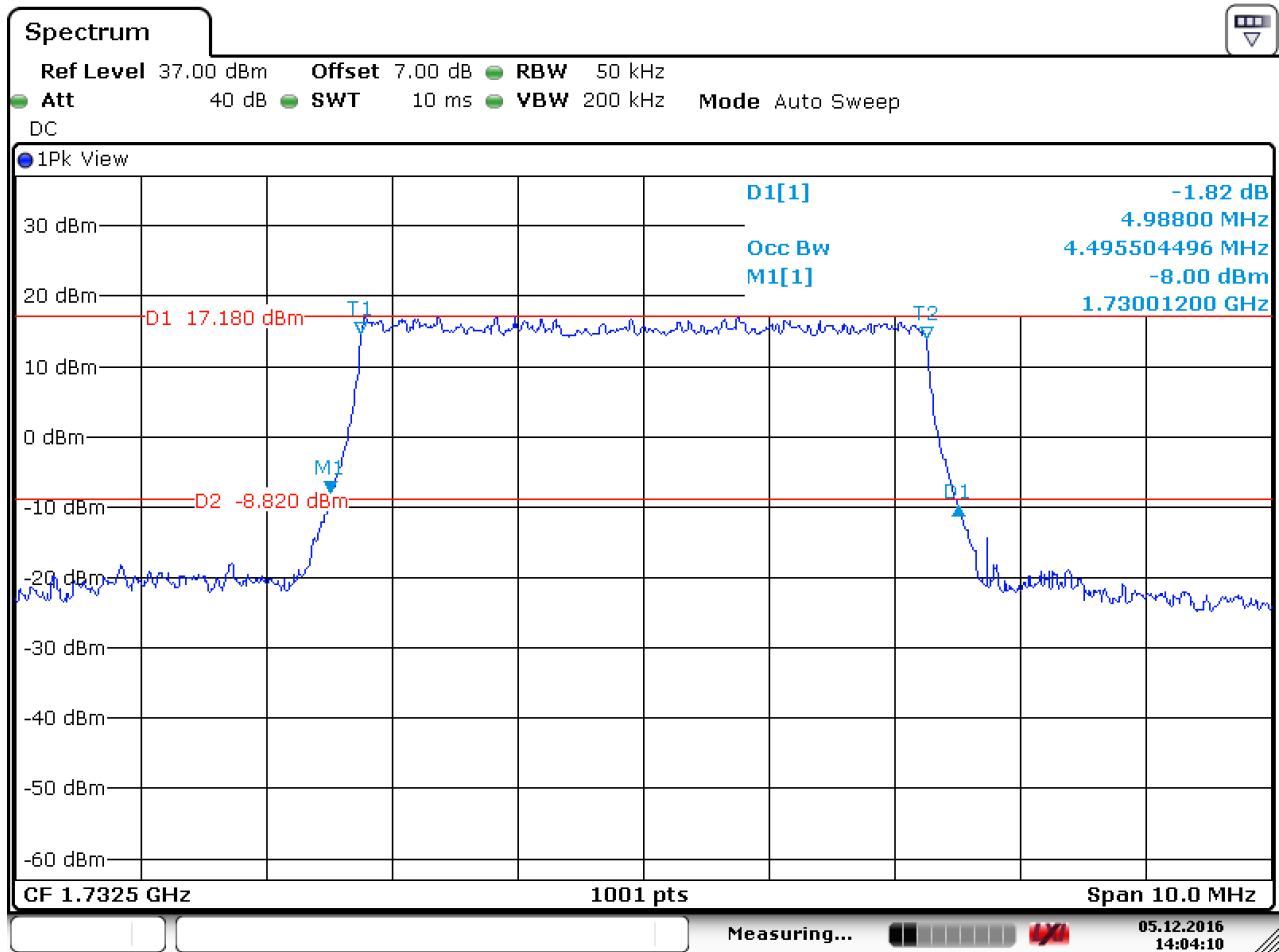


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4.1.1.5.2 Test Channel = MCH

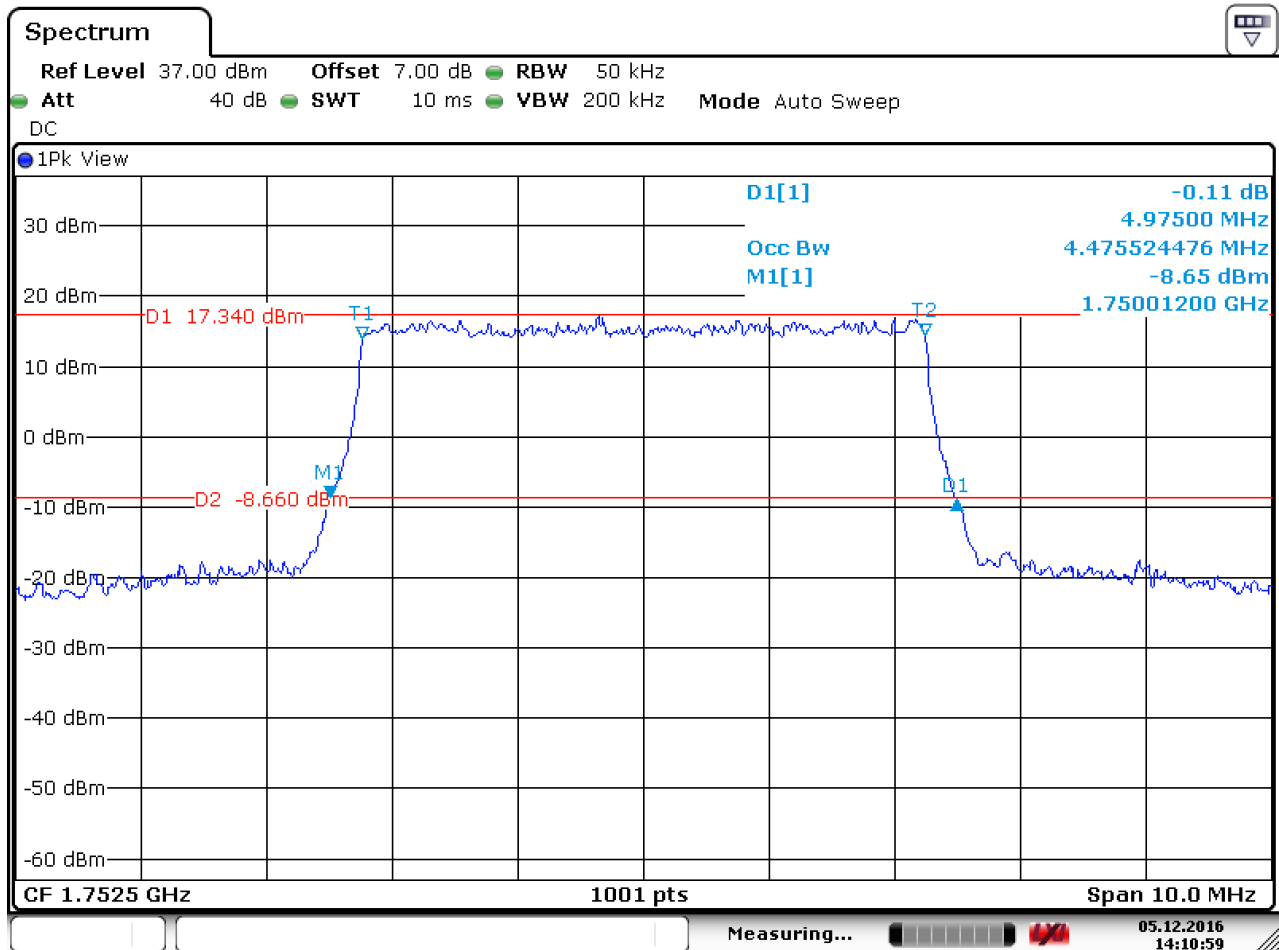


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4.1.1.5.3 Test Channel = HCH



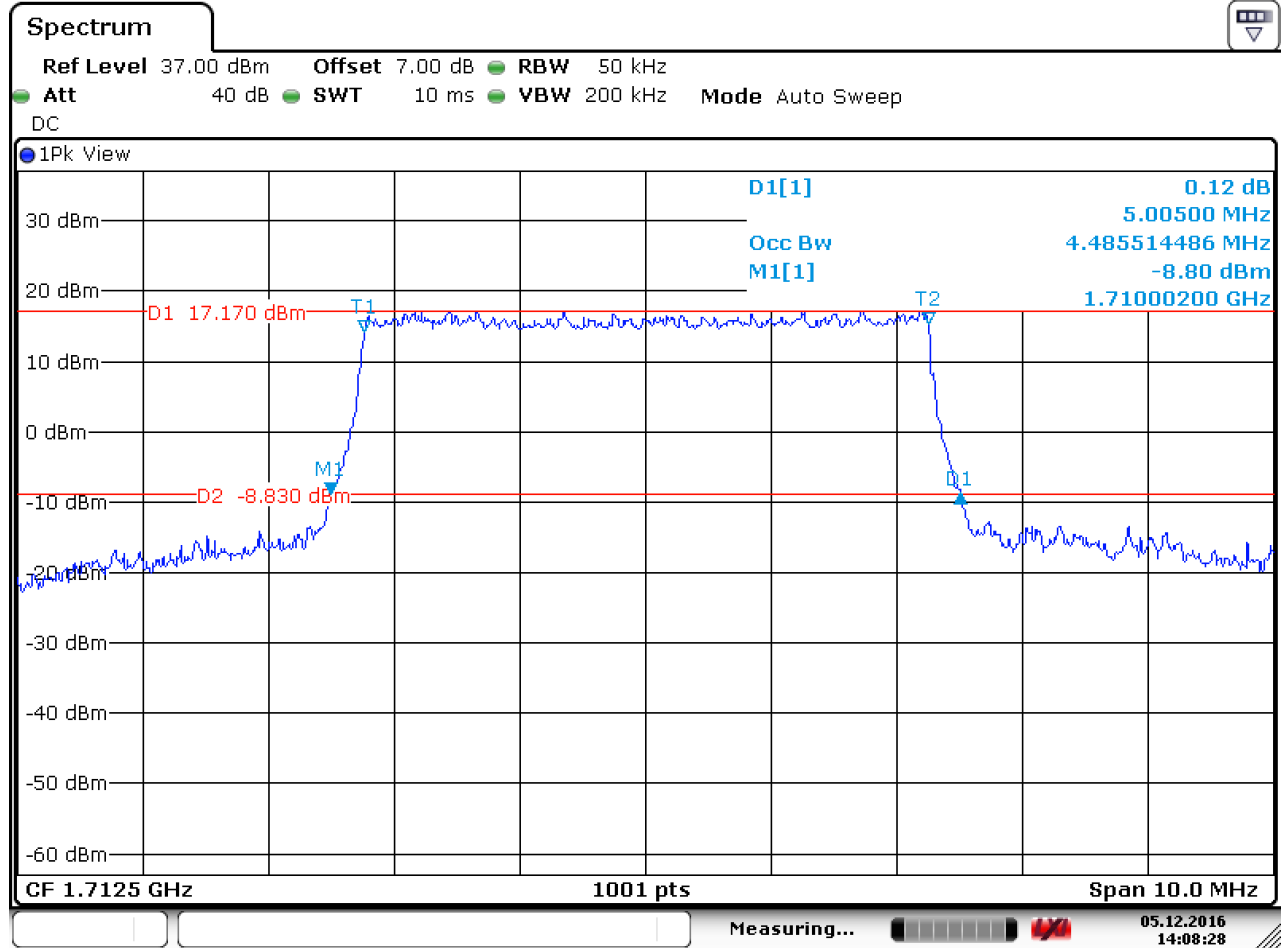
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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH

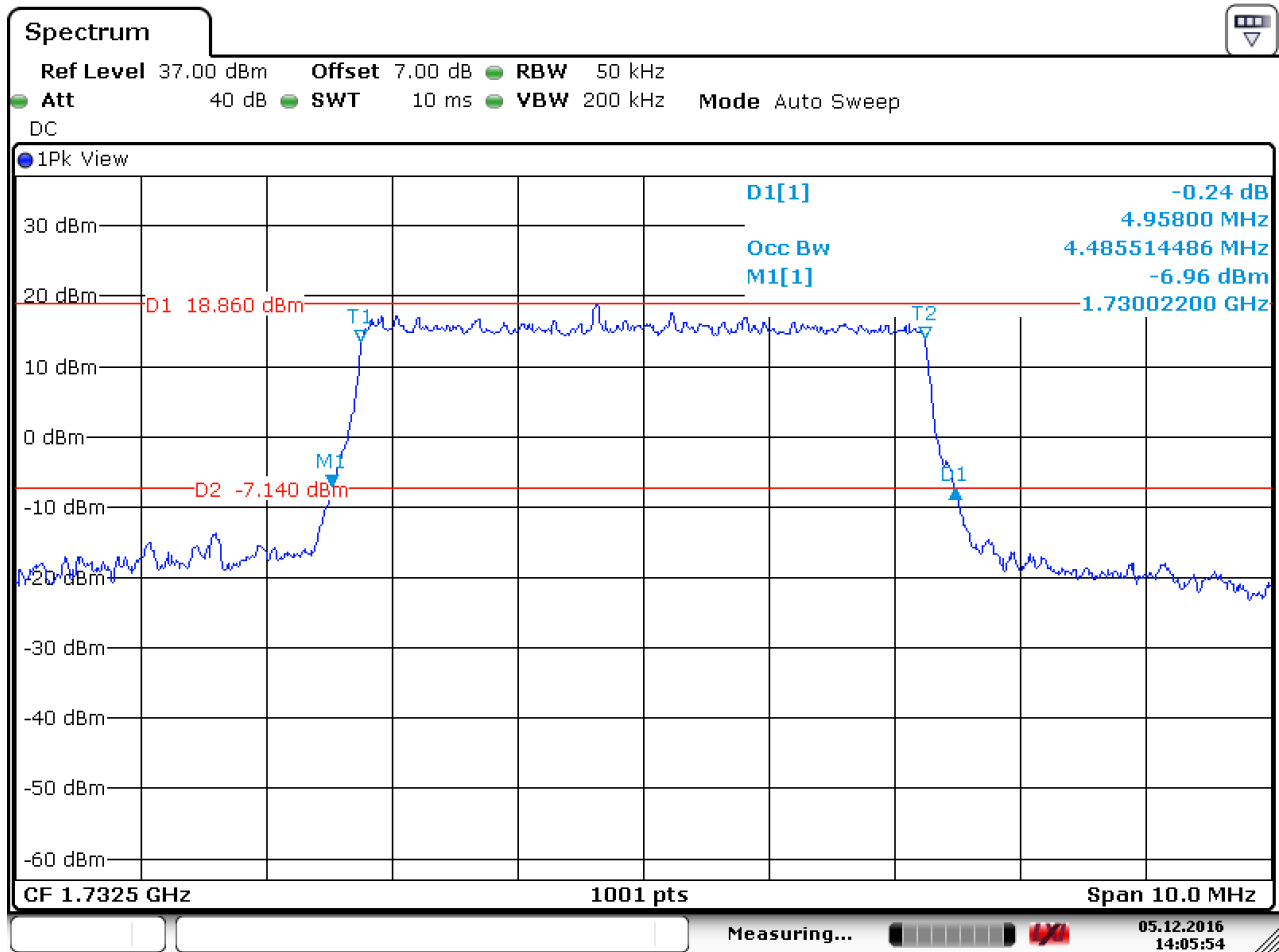


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4.1.1.6.2 Test Channel = MCH

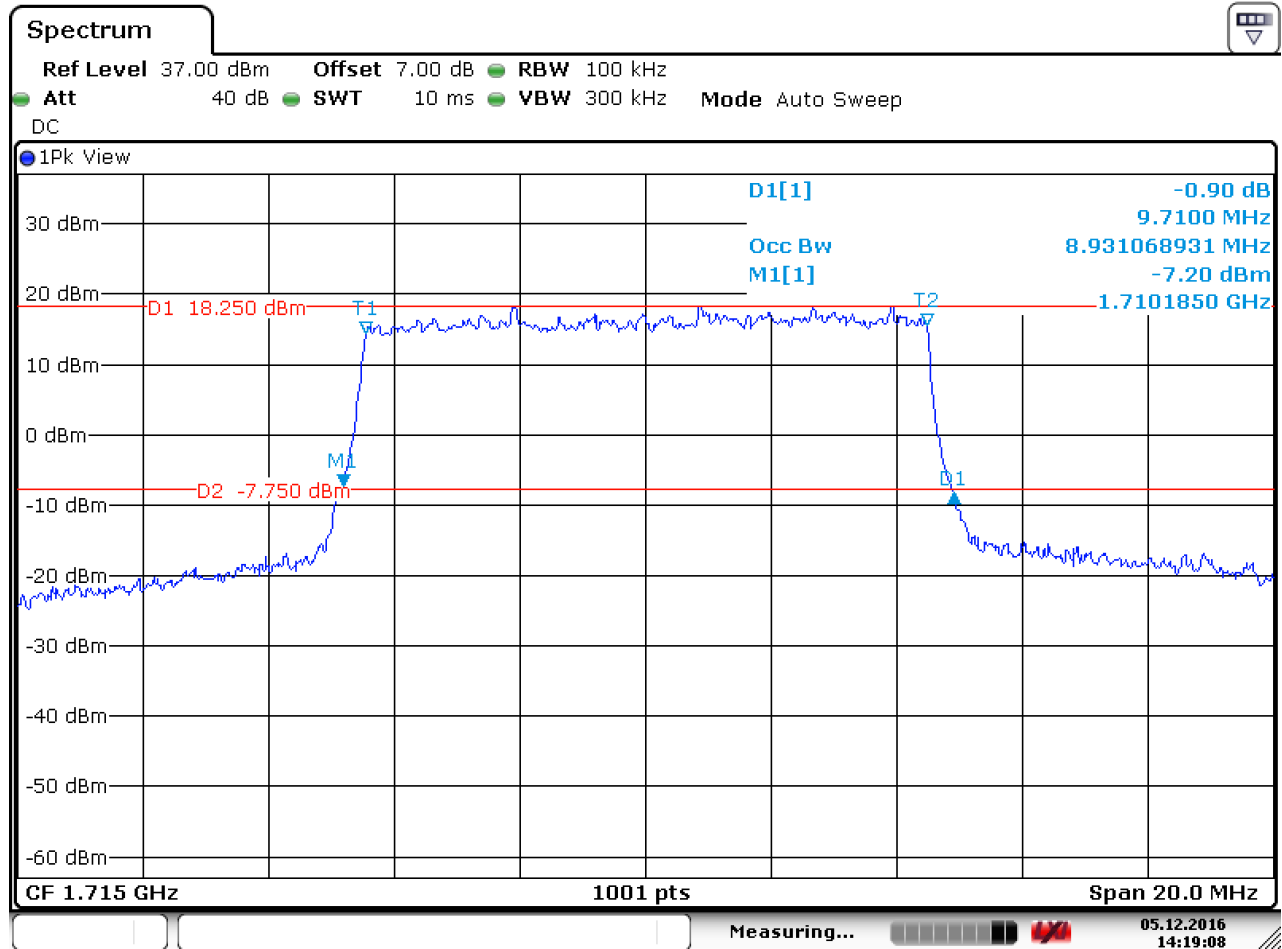


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4.1.1.7 Test Mode = LTE/TM1 10MHz

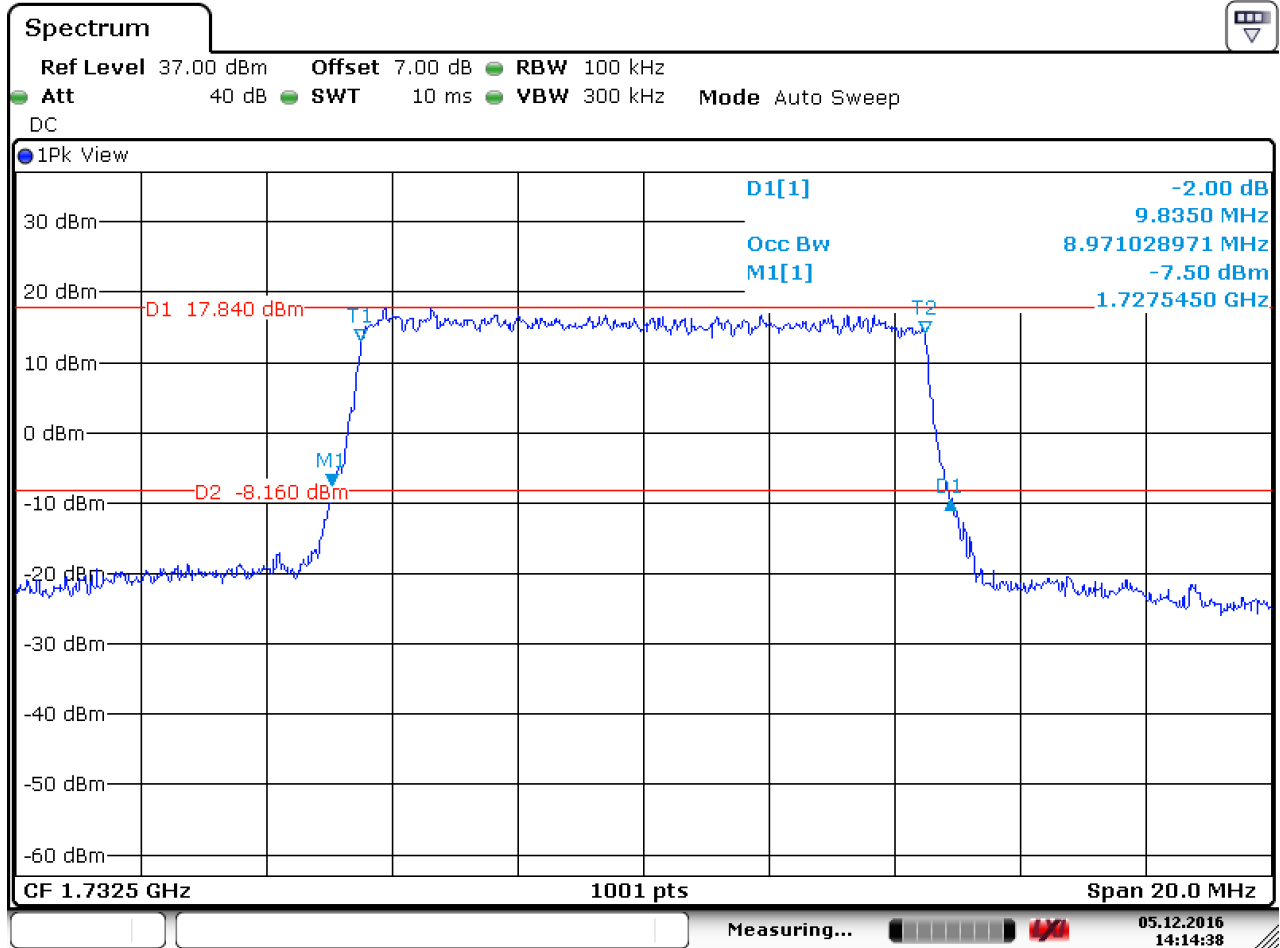
4.1.1.7.1 Test Channel = LCH



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4.1.1.7.2 Test Channel = MCH

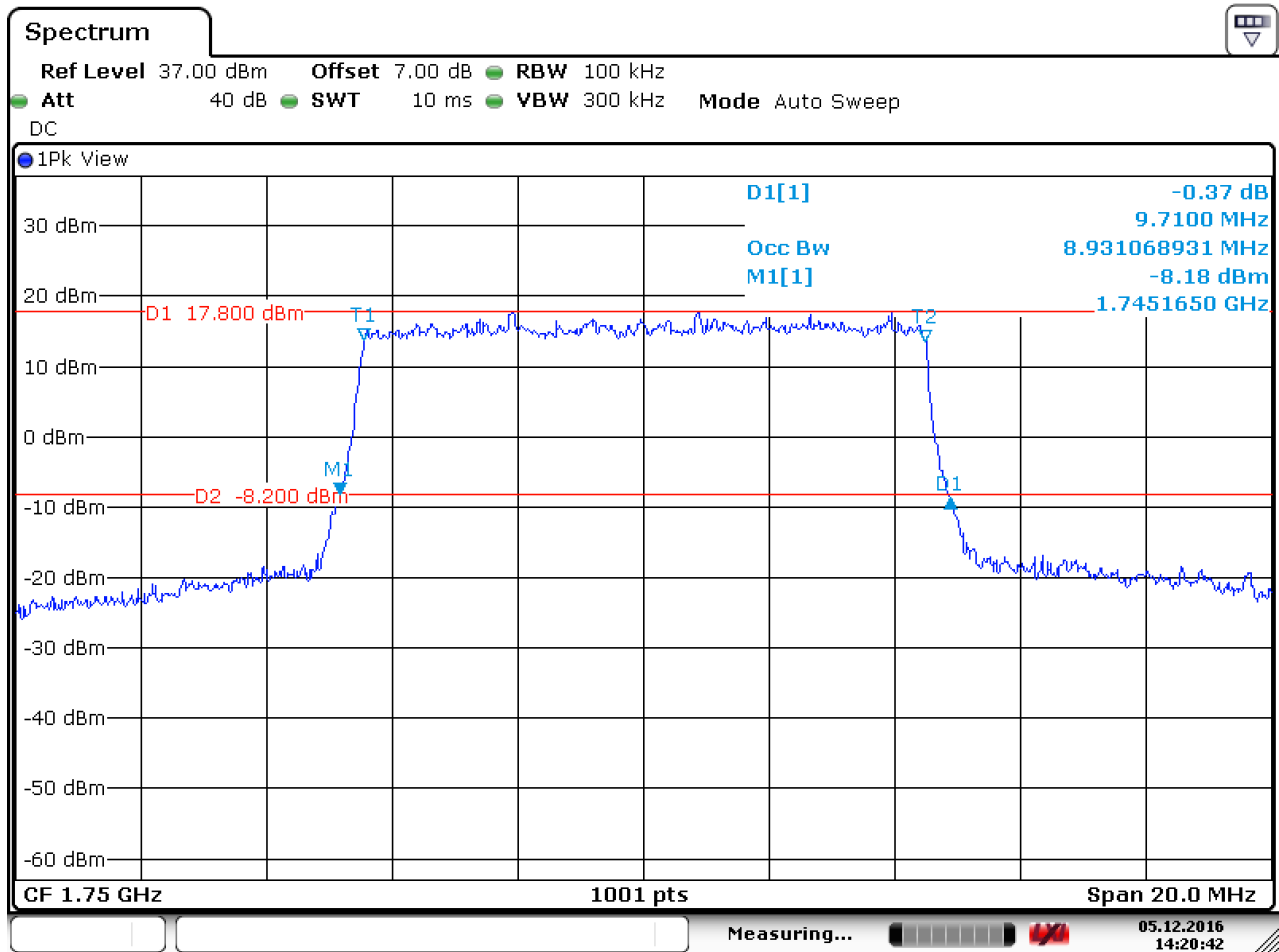


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4.1.1.7.3 Test Channel = HCH



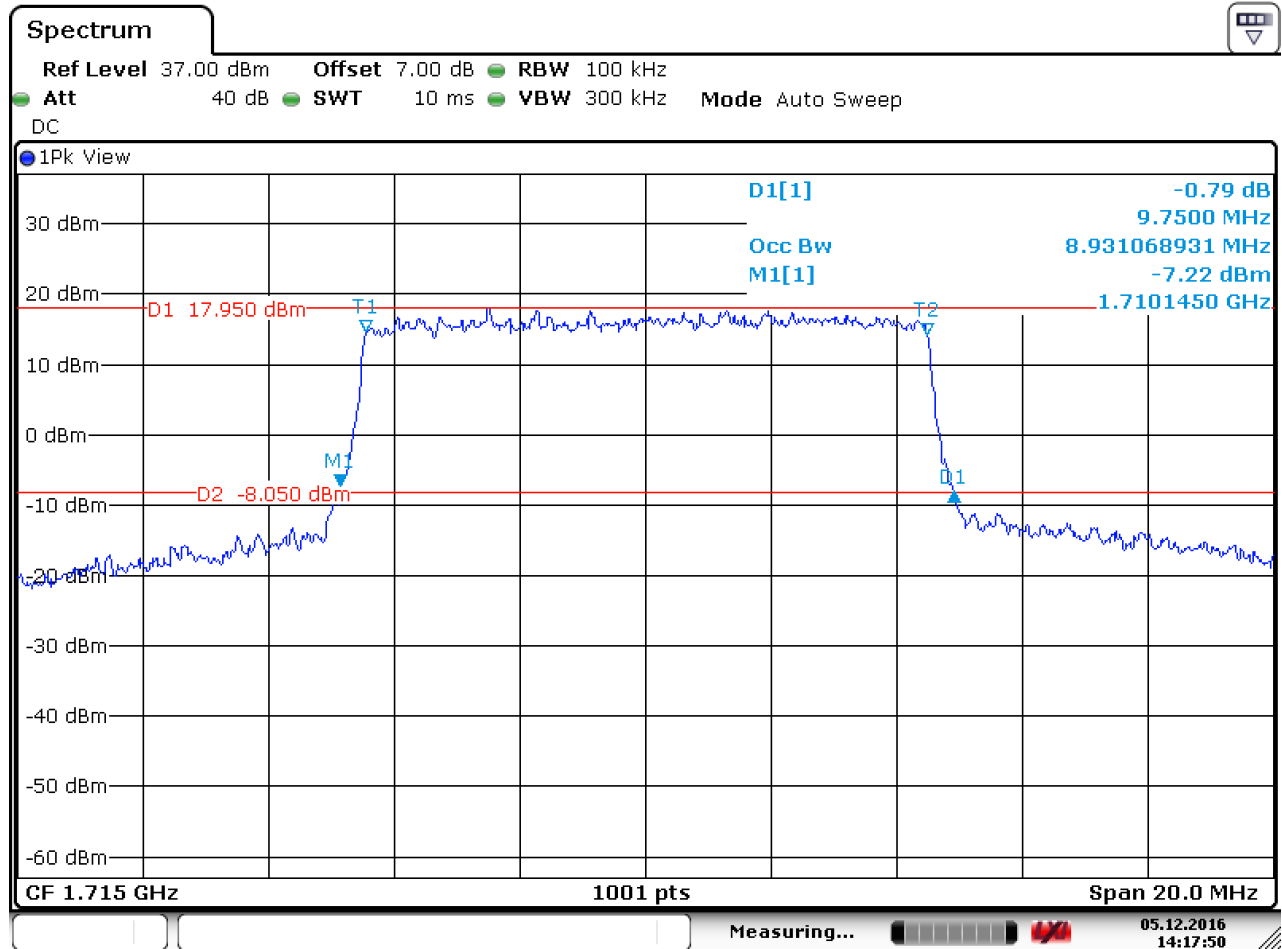
Date: 5.DEC.2016 14:20:43

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4.1.1.8 Test Mode = LTE/TM2 10MHz

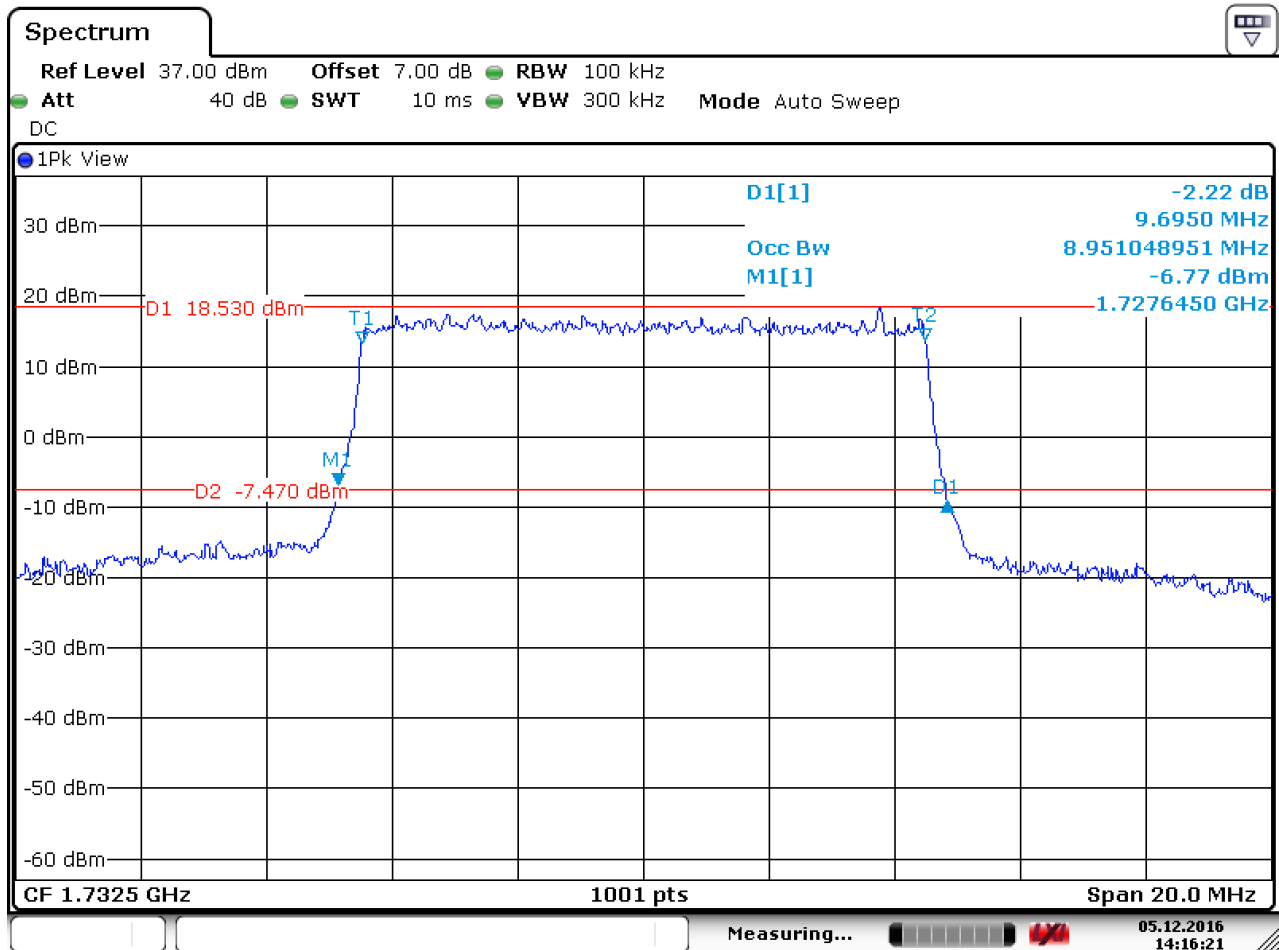
4.1.1.8.1 Test Channel = LCH



Date: 5.DEC.2016 14:17:51



4.1.1.8.2 Test Channel = MCH

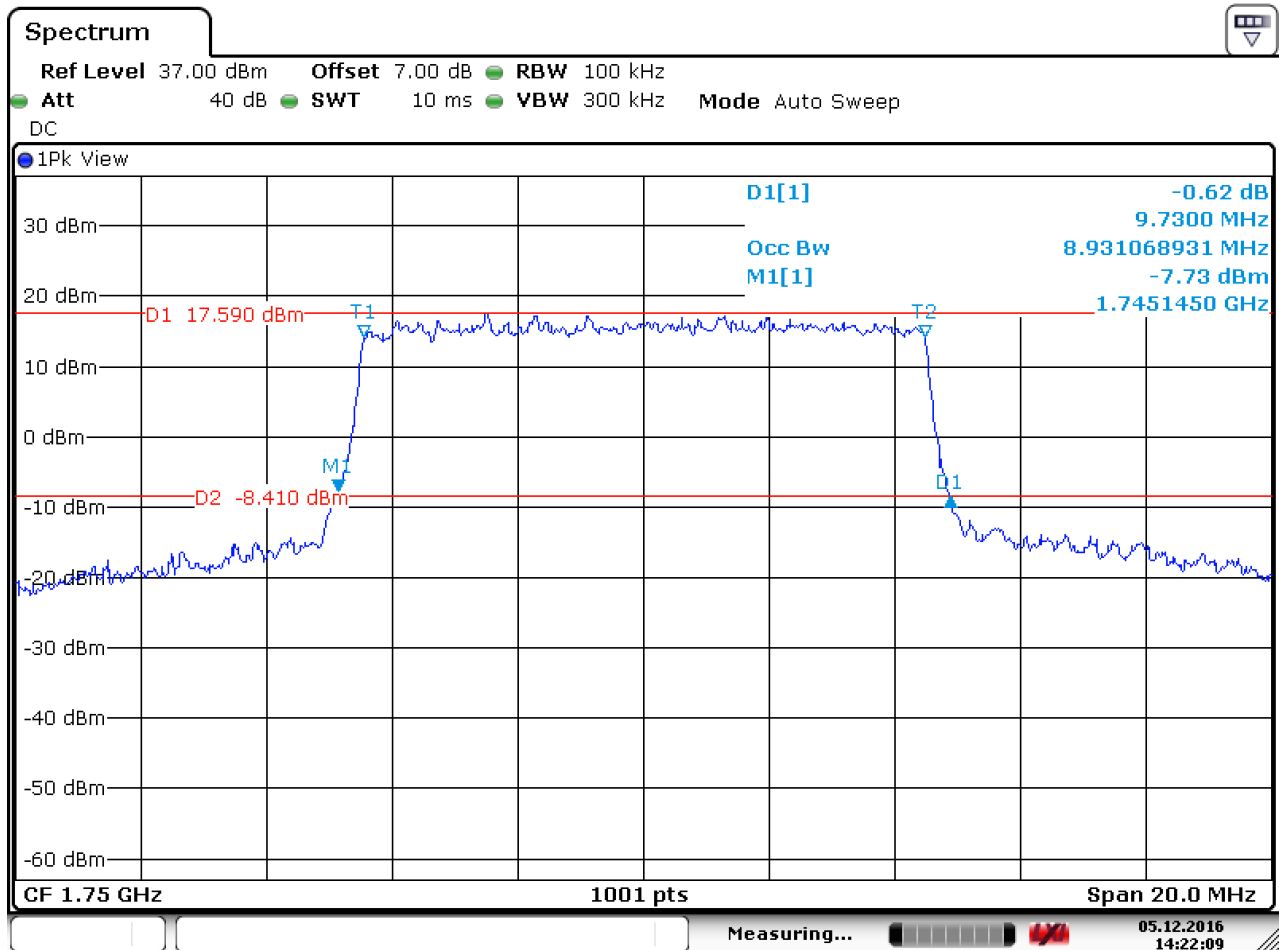


Date: 5.DEC.2016 14:16:21

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4.1.1.8.3 Test Channel = HCH



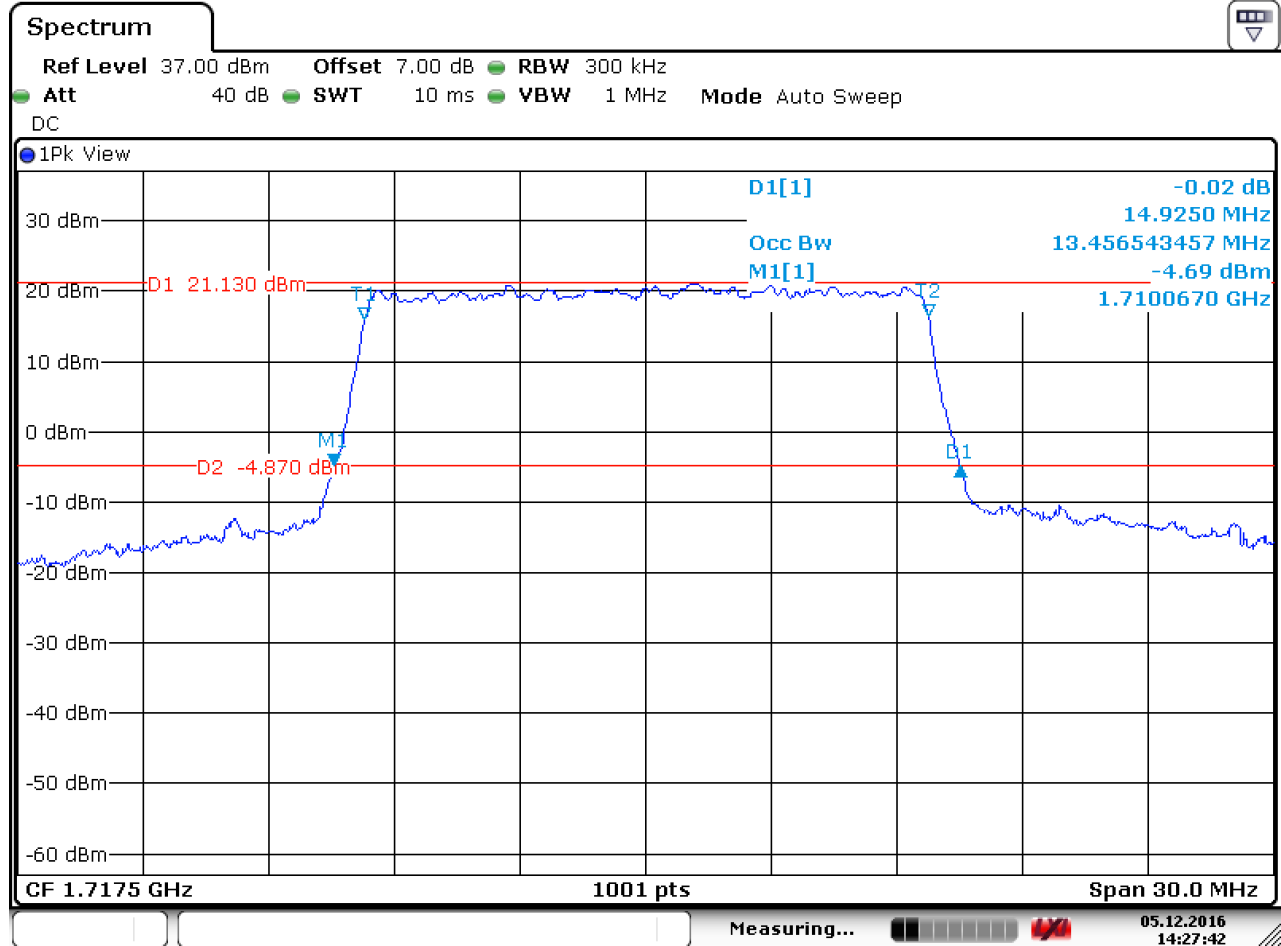
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4.1.1.9 Test Mode = LTE/TM1 15MHz

4.1.1.9.1 Test Channel = LCH

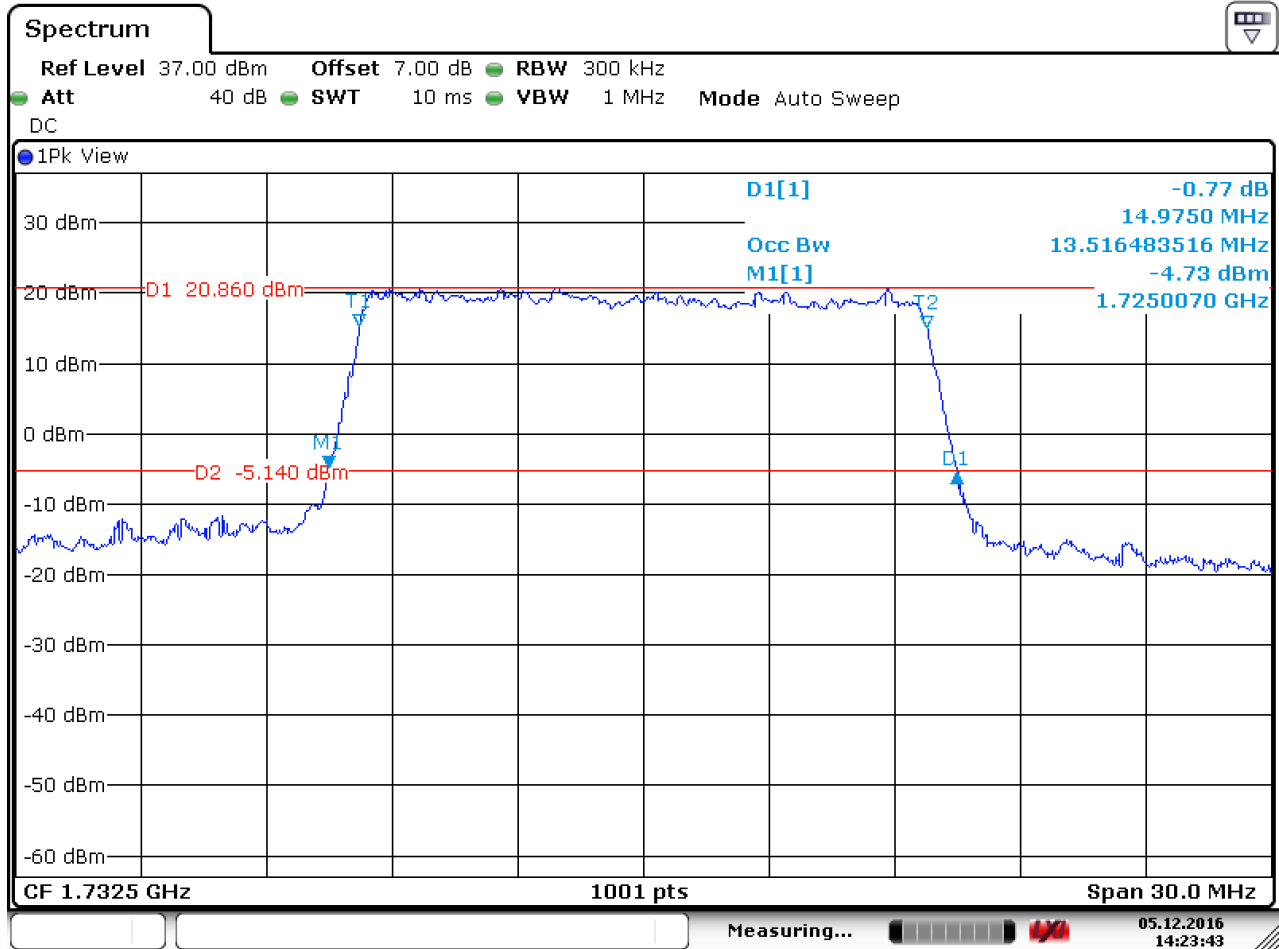


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4.1.1.9.2 Test Channel = MCH

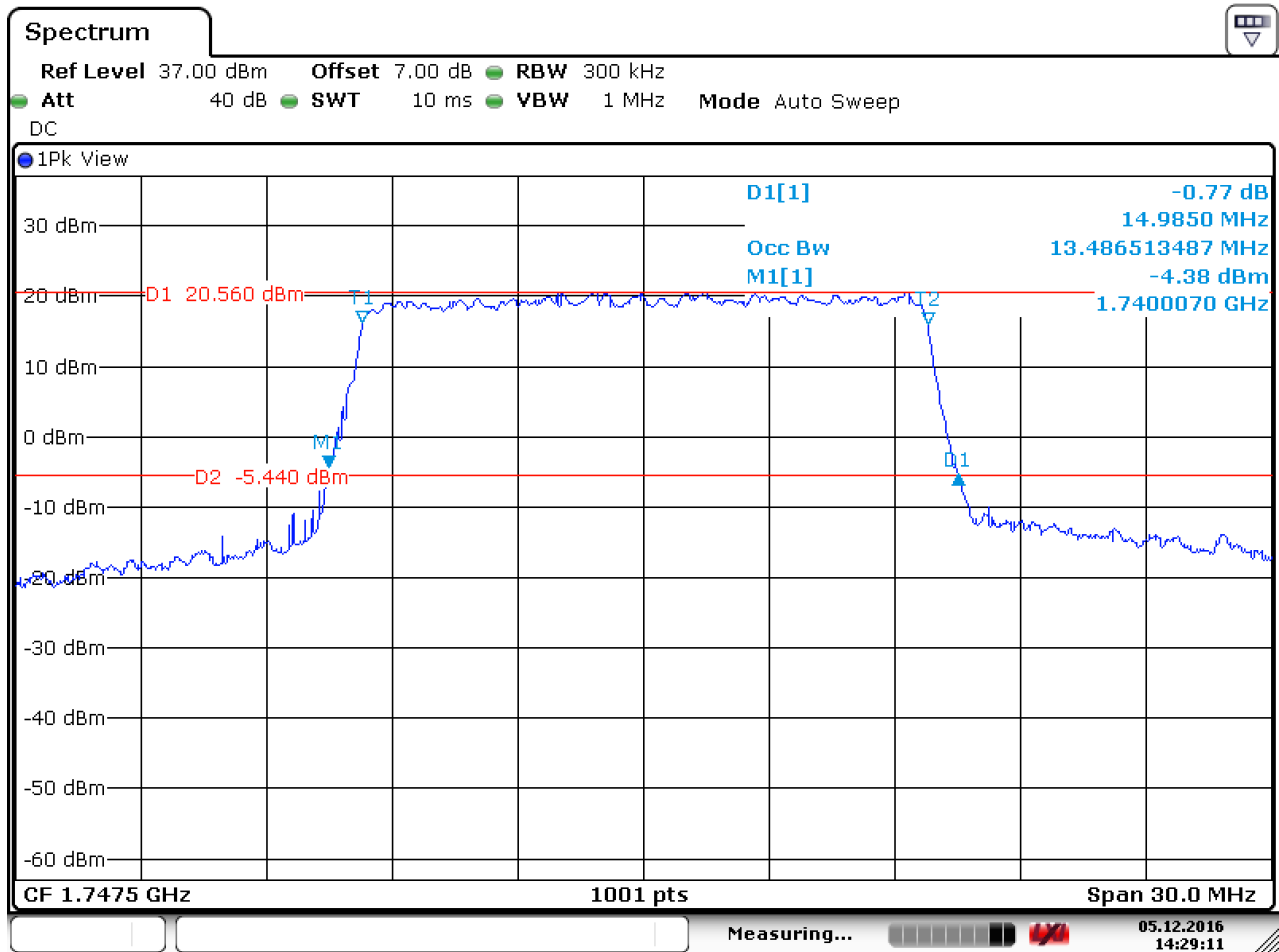


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4.1.1.9.3 Test Channel = HCH



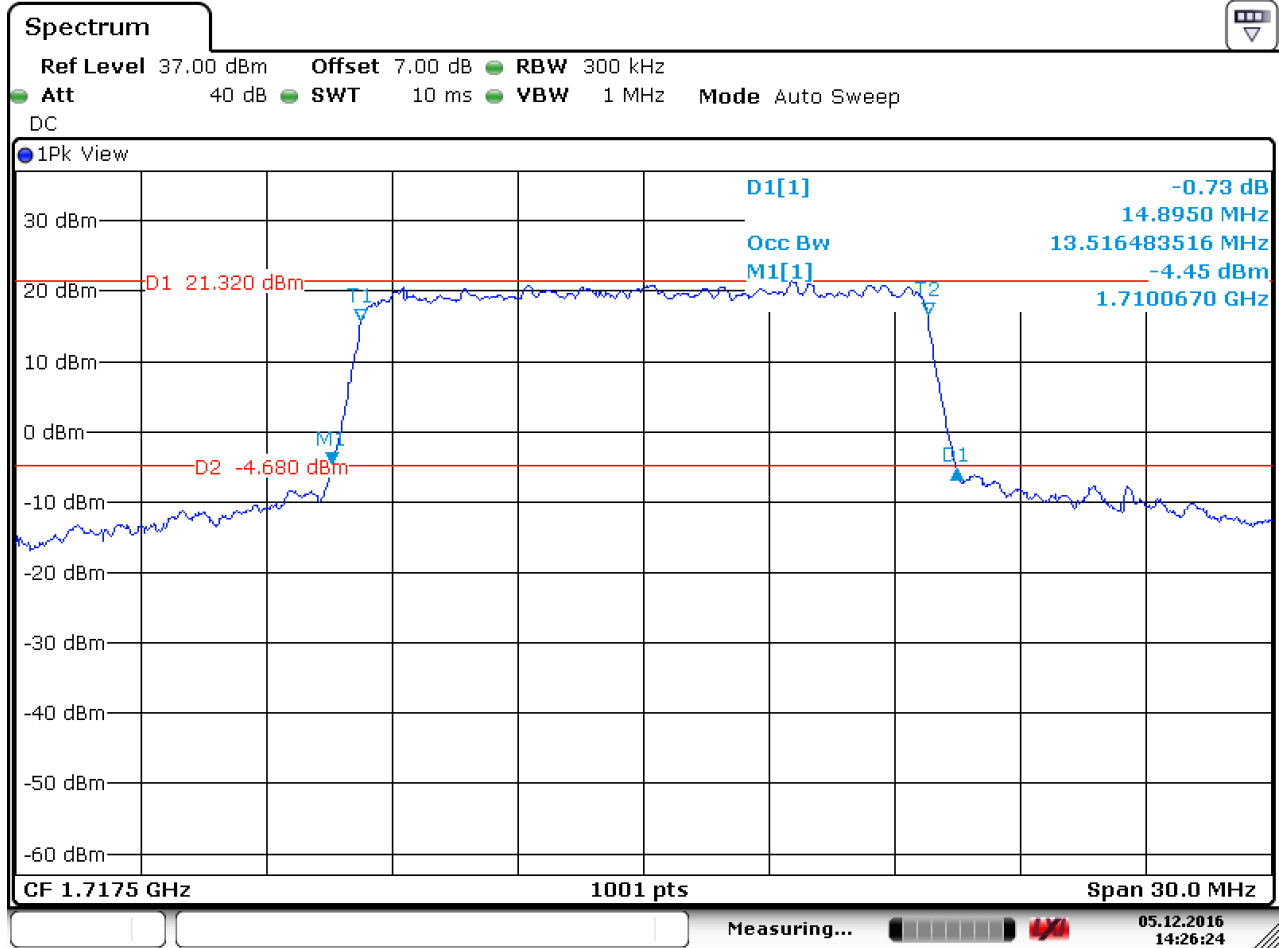
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4.1.1.10 Test Mode = LTE/TM2 15MHz

4.1.1.10.1 Test Channel = LCH

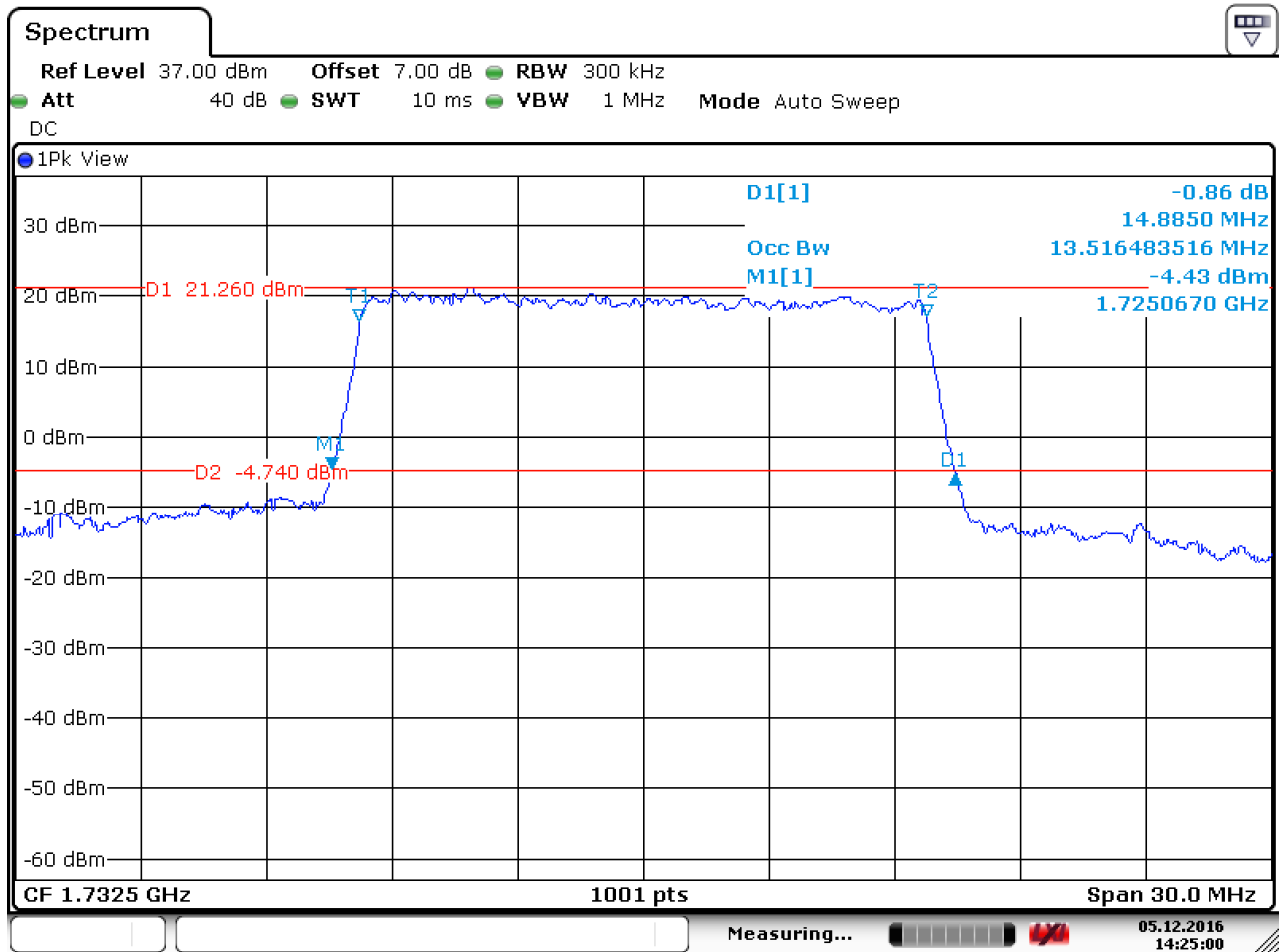


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4.1.1.10.2 Test Channel = MCH

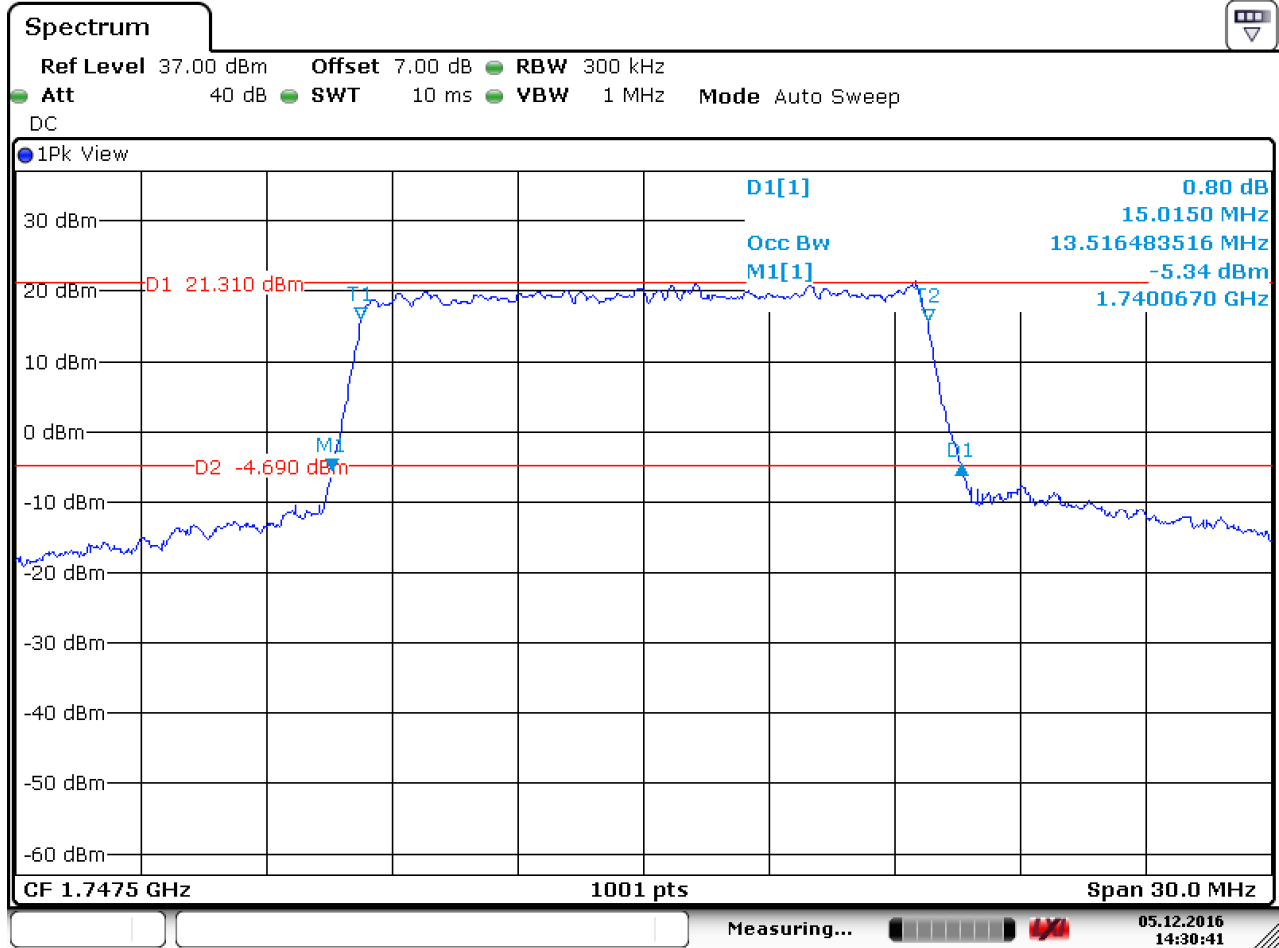


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4.1.1.10.3 Test Channel = HCH



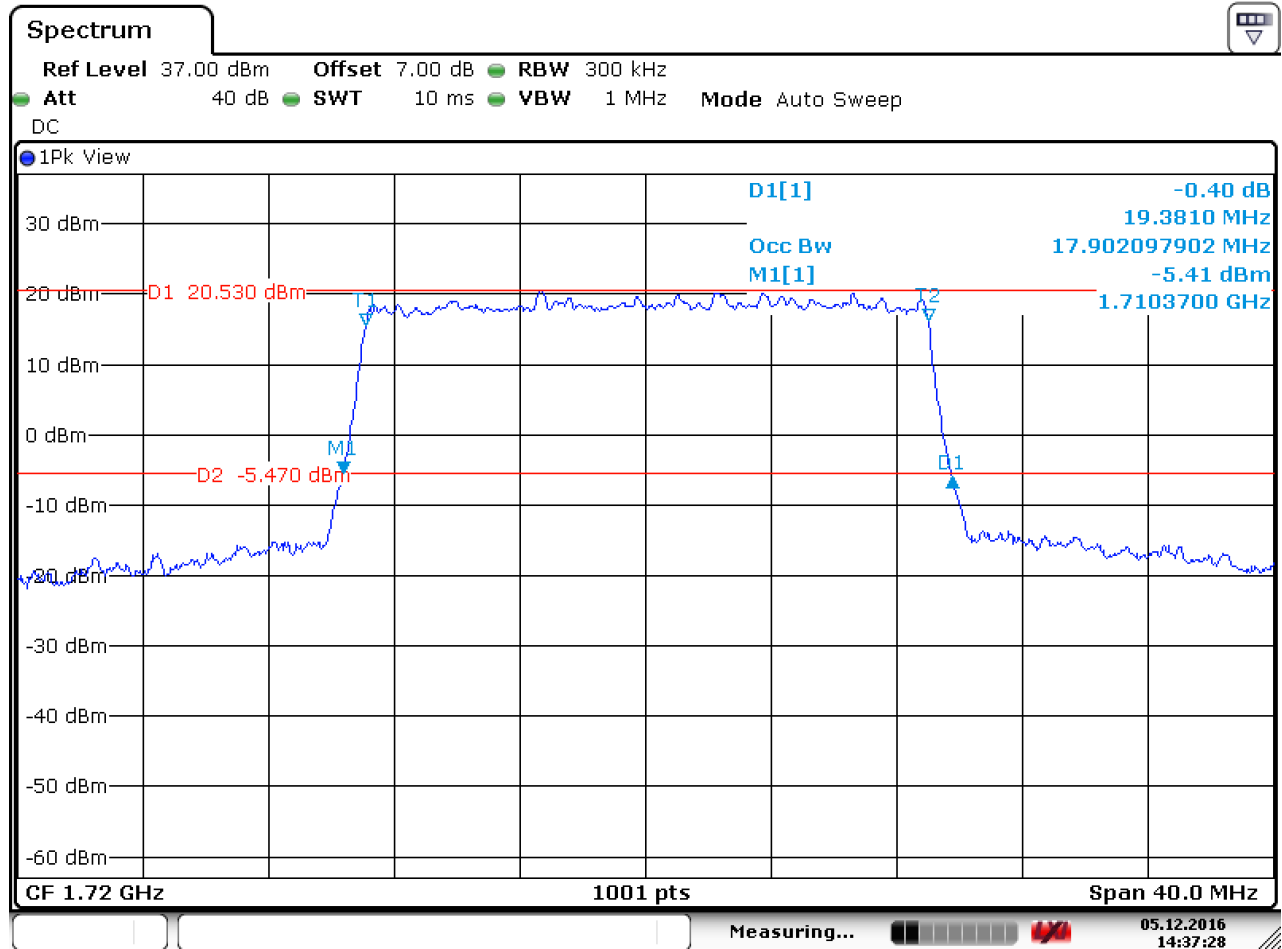
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4.1.1.11 Test Mode = LTE/TM1 20MHz

4.1.1.11.1 Test Channel = LCH

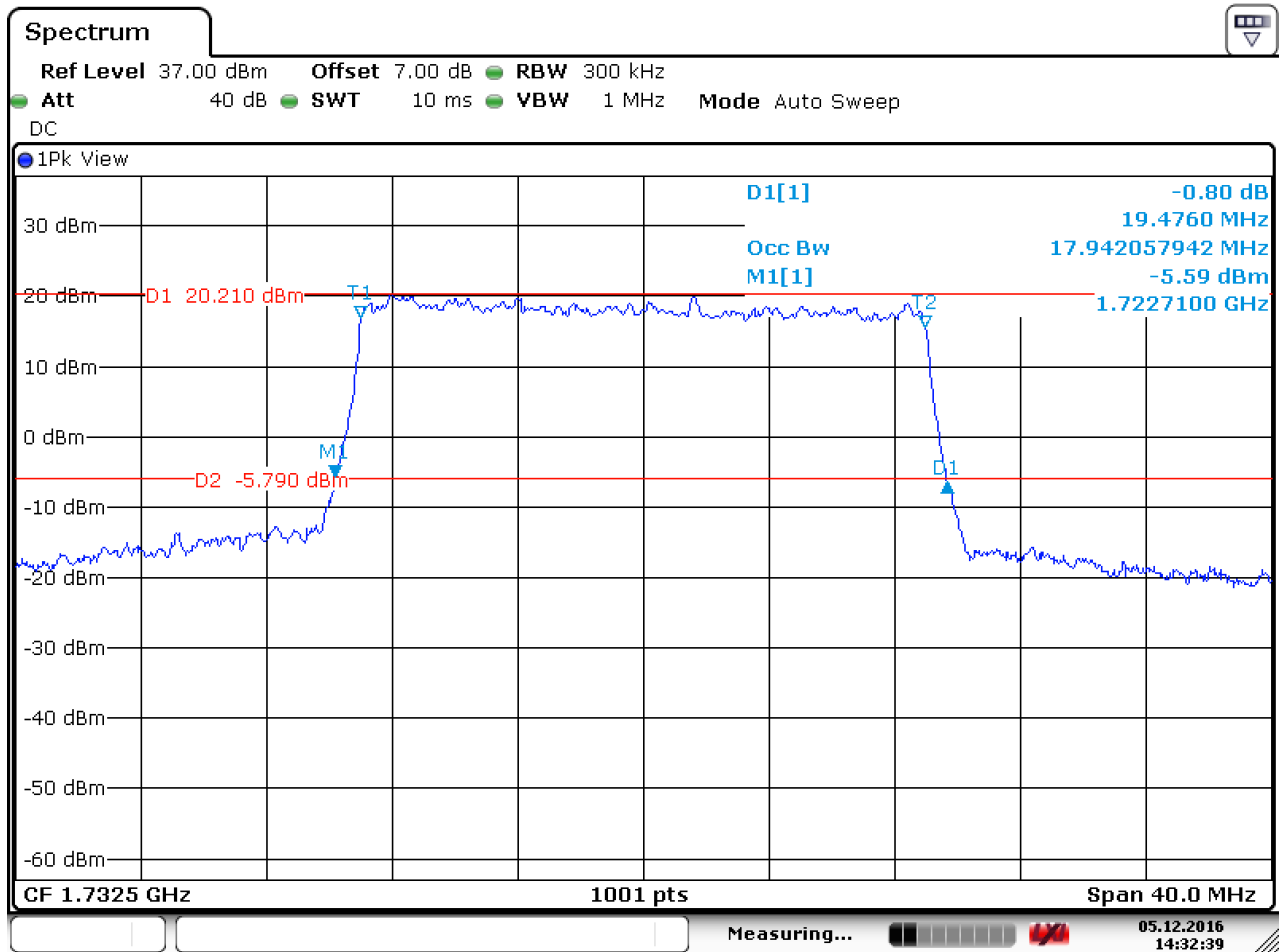


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4.1.1.11.2 Test Channel = MCH

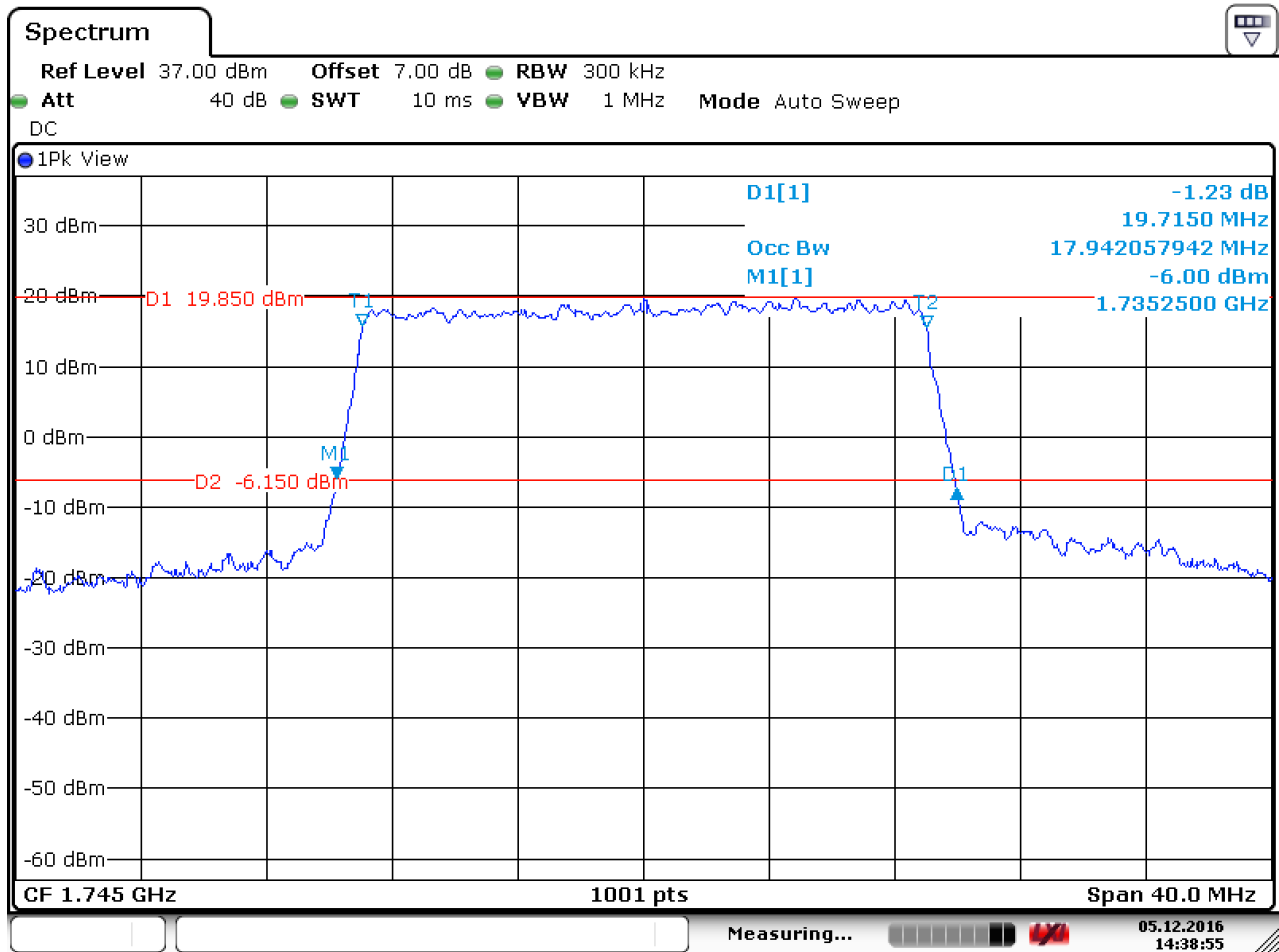


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4.1.1.11.3 Test Channel = HCH



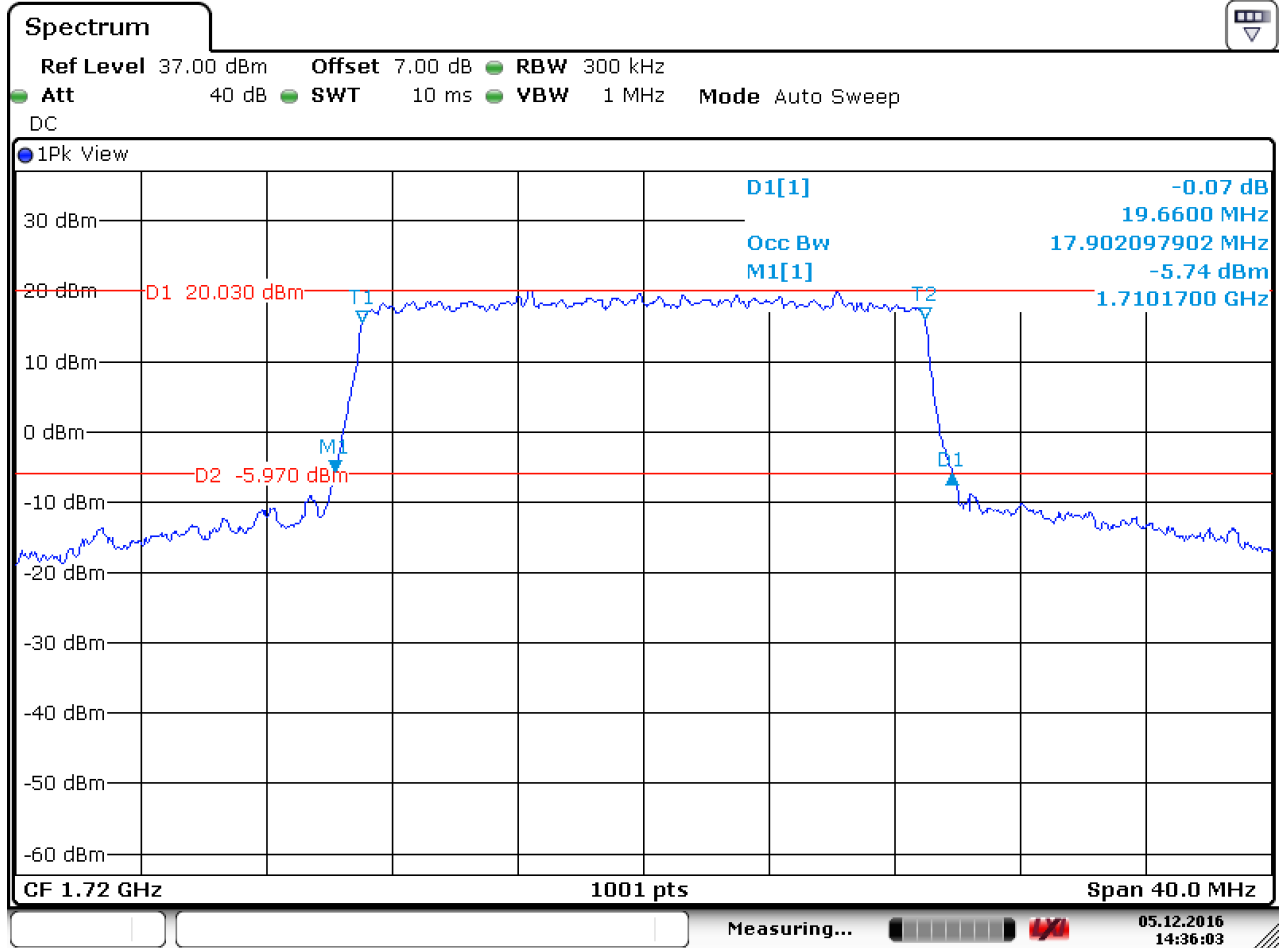
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4.1.1.12 Test Mode = LTE/TM2 20MHz

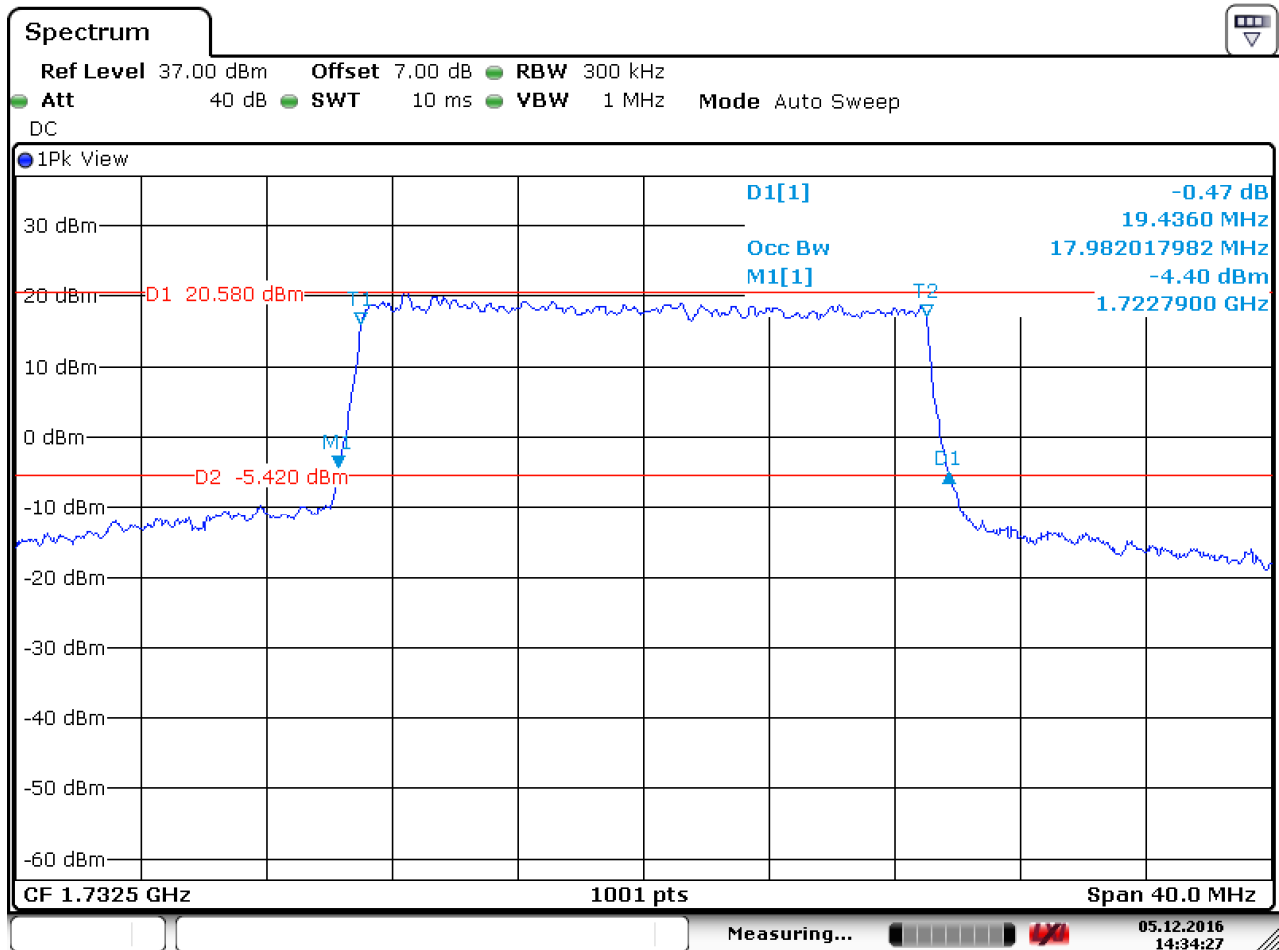
4.1.1.12.1 Test Channel = LCH



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4.1.1.12.2 Test Channel = MCH

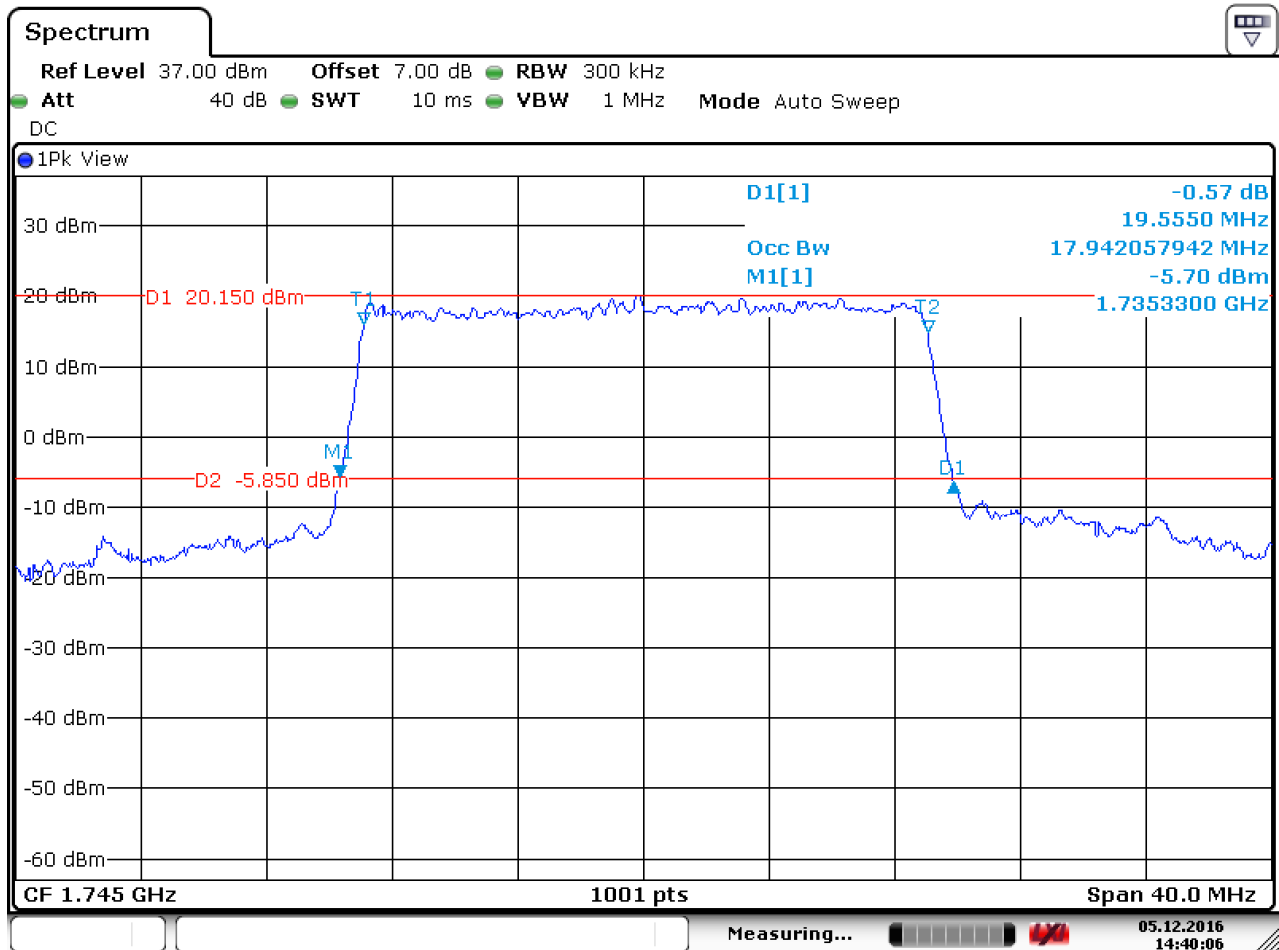


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4.1.1.12.3 Test Channel = HCH



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5 Band Edges Compliance

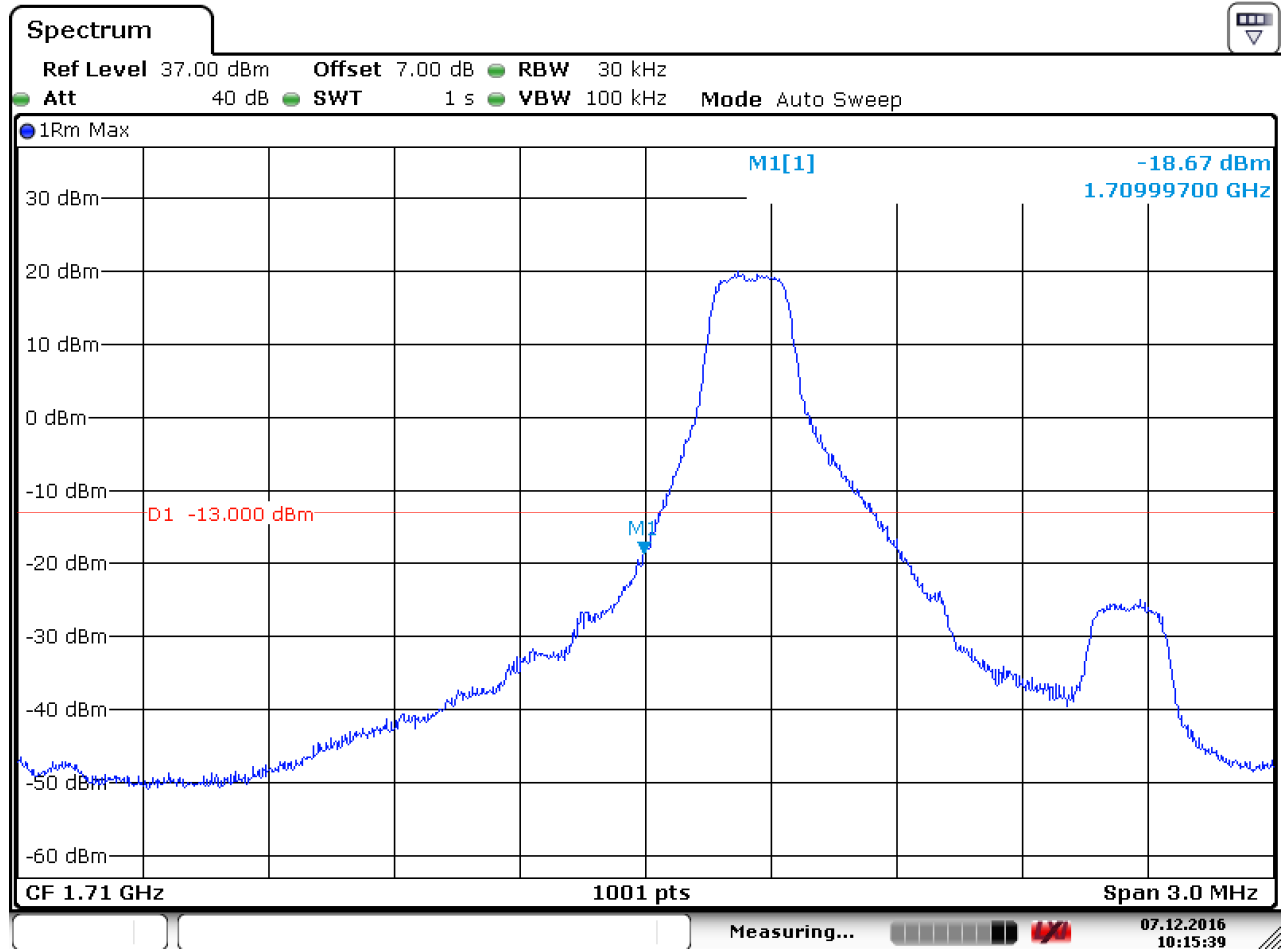
5.1 For LTE

5.1.1 Test Band = LTE band4

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

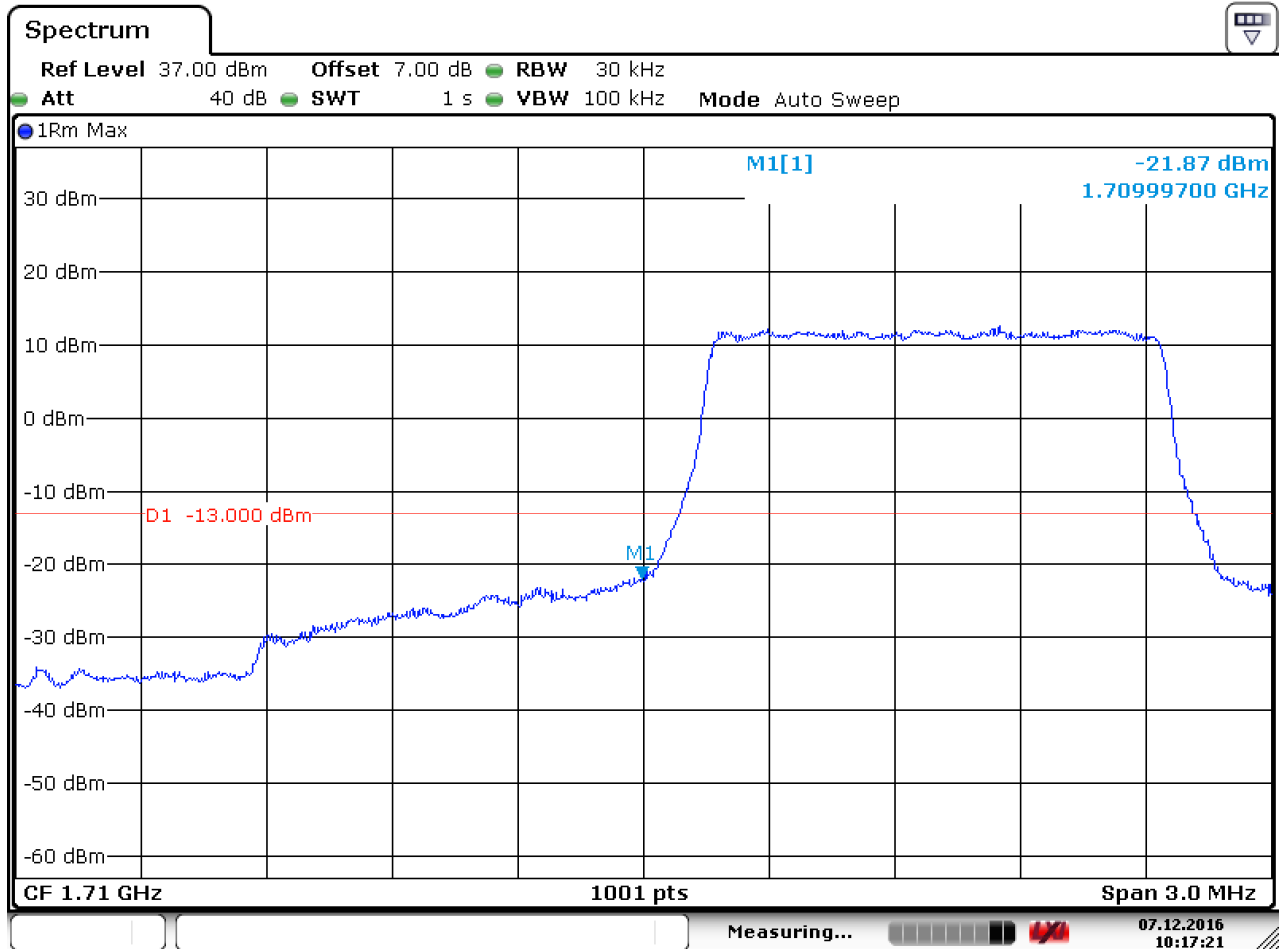
5.1.1.1.1.1 Test RB=1RB



Date: 7.DEC.2016 10:15:39



5.1.1.1.2 Test RB=6RB

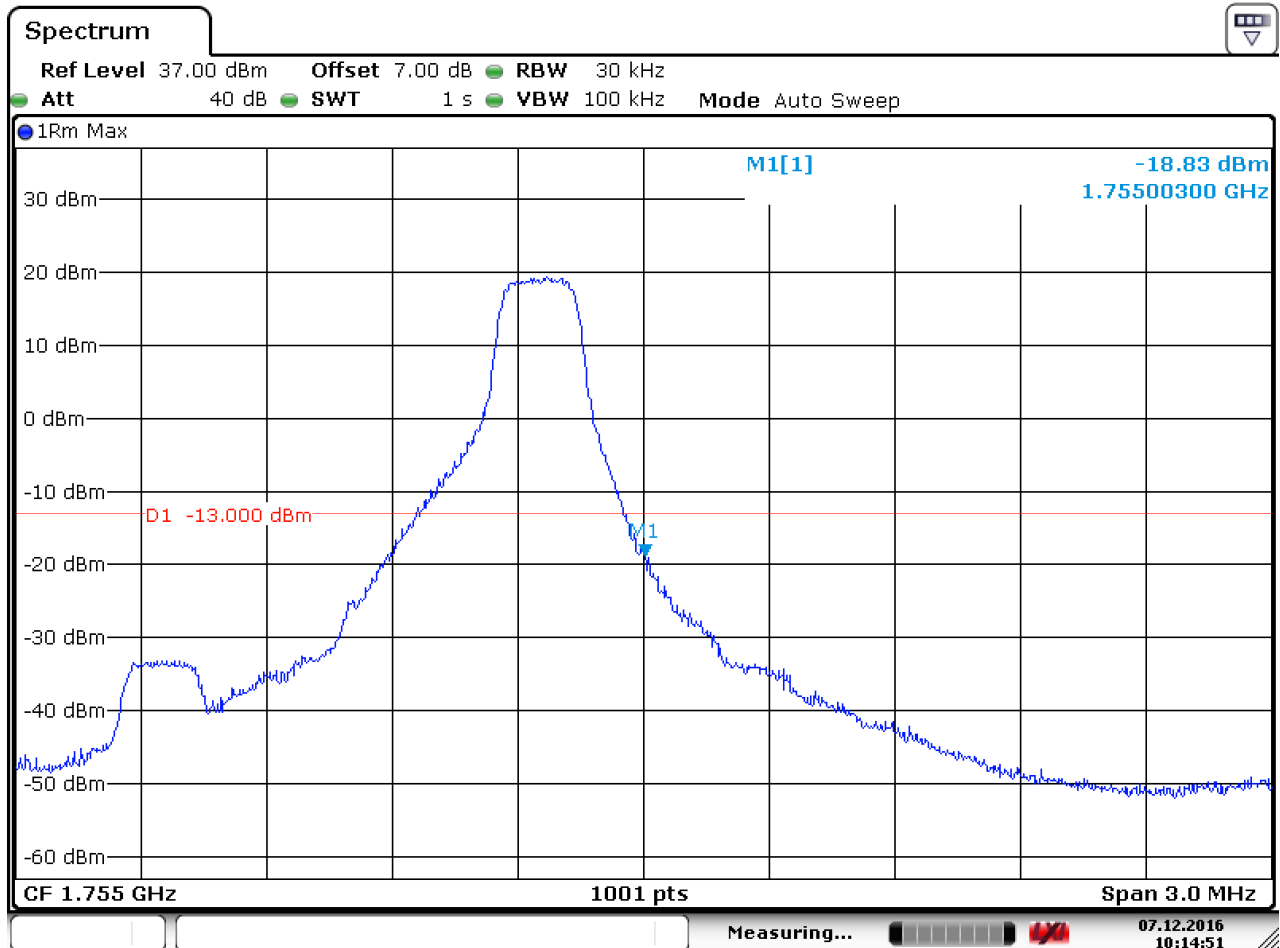


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5.1.1.1.2 Test Channel = HCH

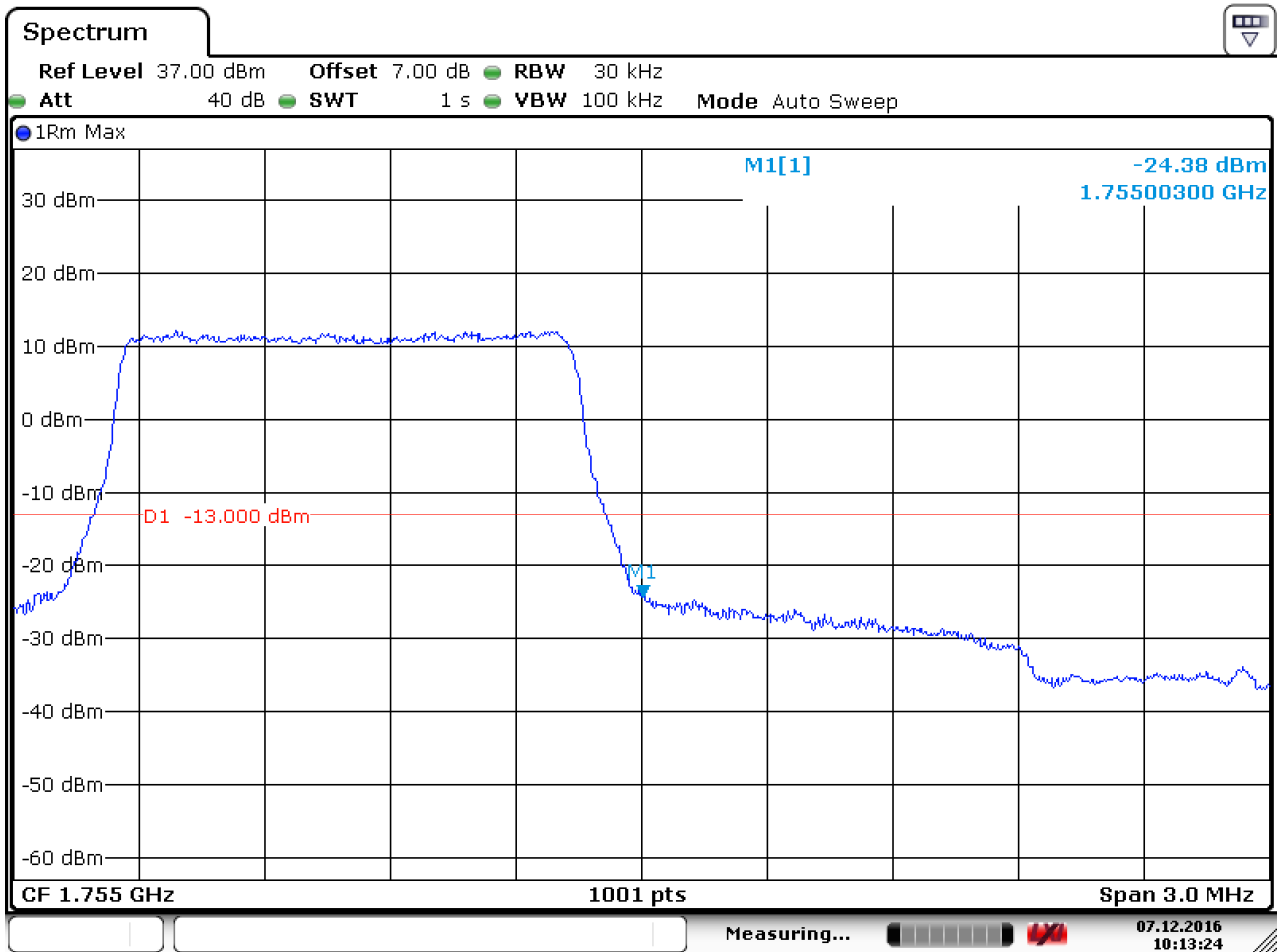
5.1.1.1.2.1 Test RB=1RB



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5.1.1.1.2.2 Test RB=6RB

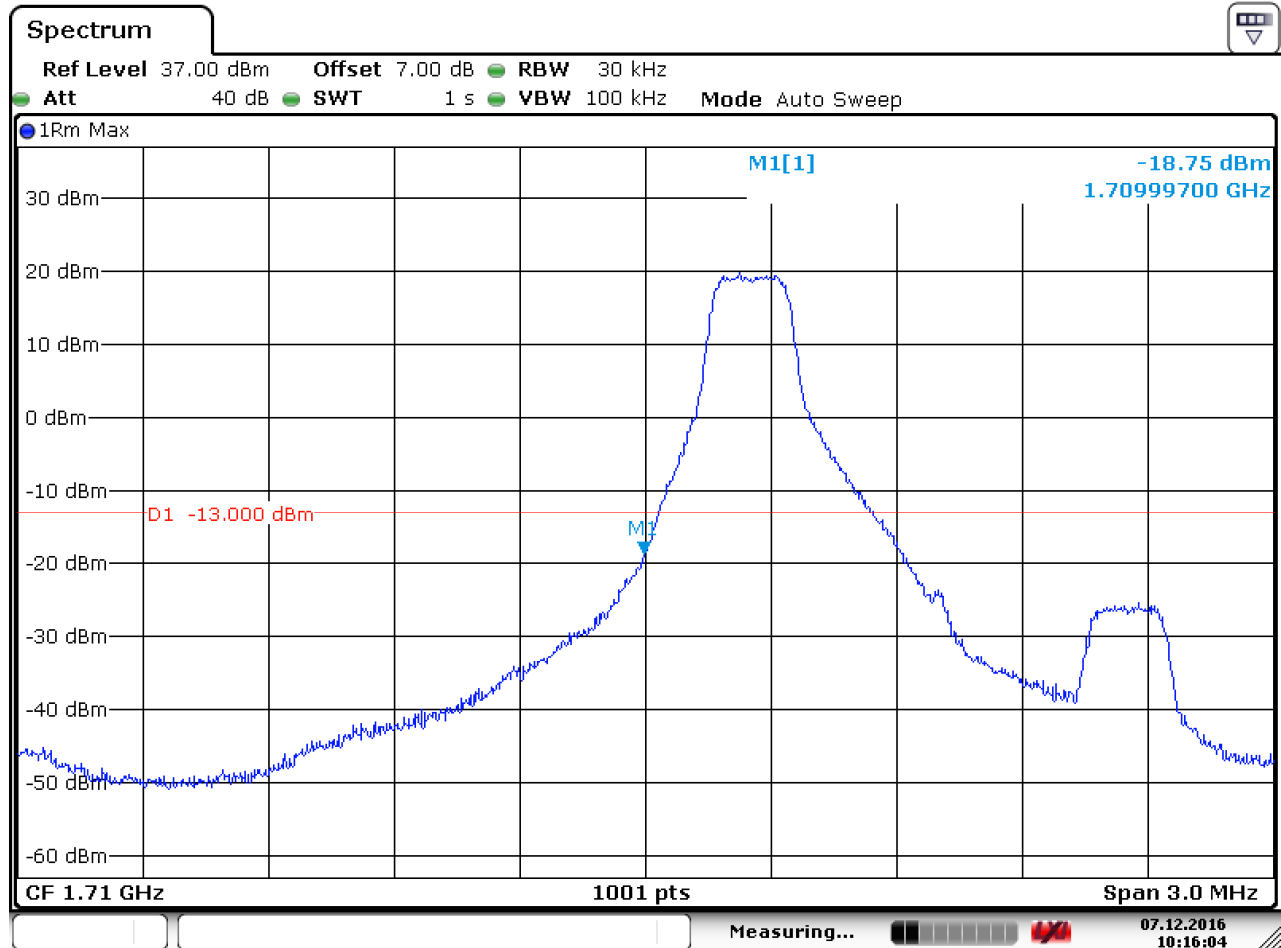


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5.1.1.2 Test Mode = LTE/TM2 1.4MHz
5.1.1.2.1 Test Channel = LCH

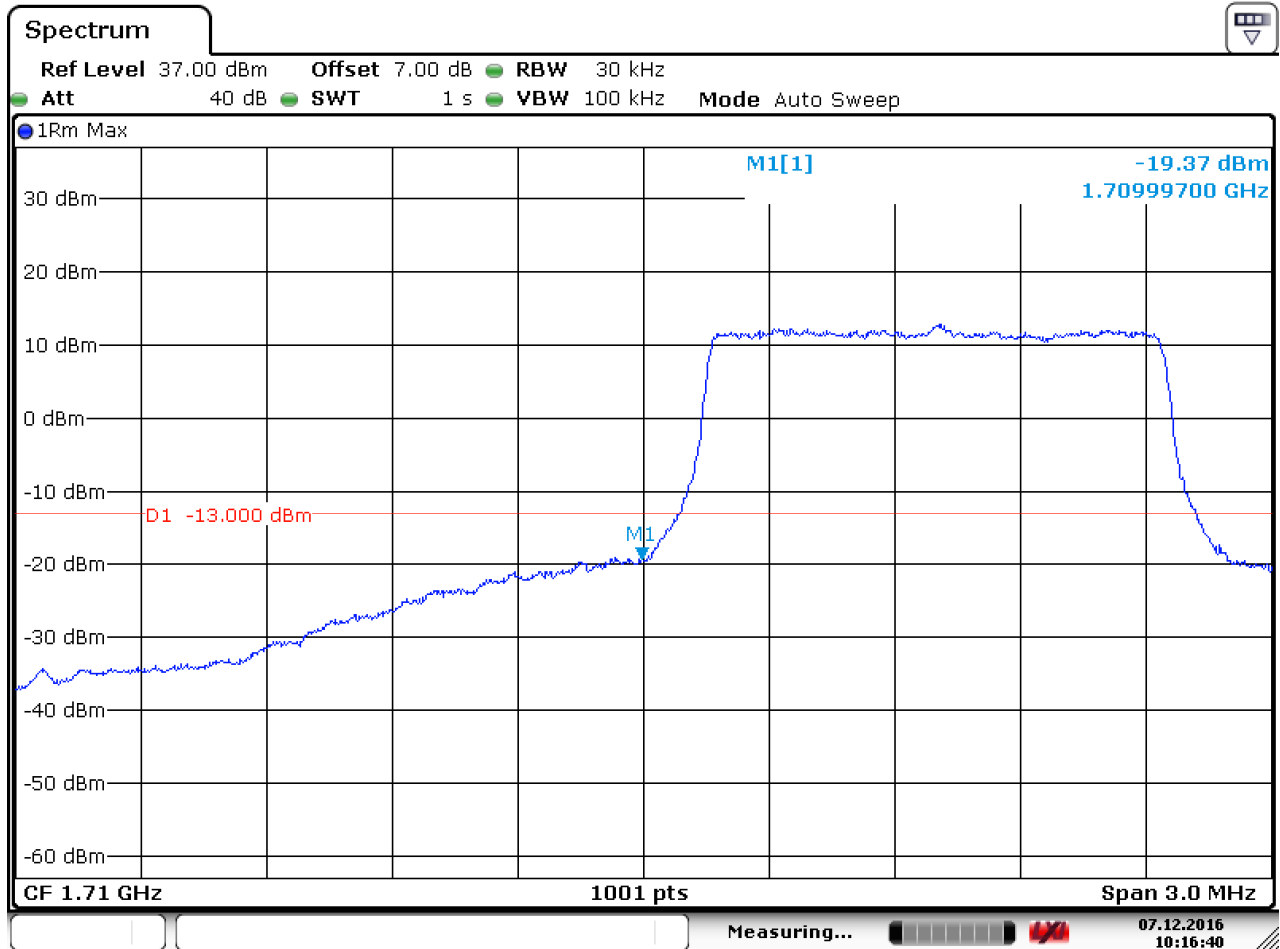
5.1.1.2.1.1 Test RB=1RB



Date: 7.DEC.2016 10:16:04



5.1.1.2.1.2 Test RB=6RB



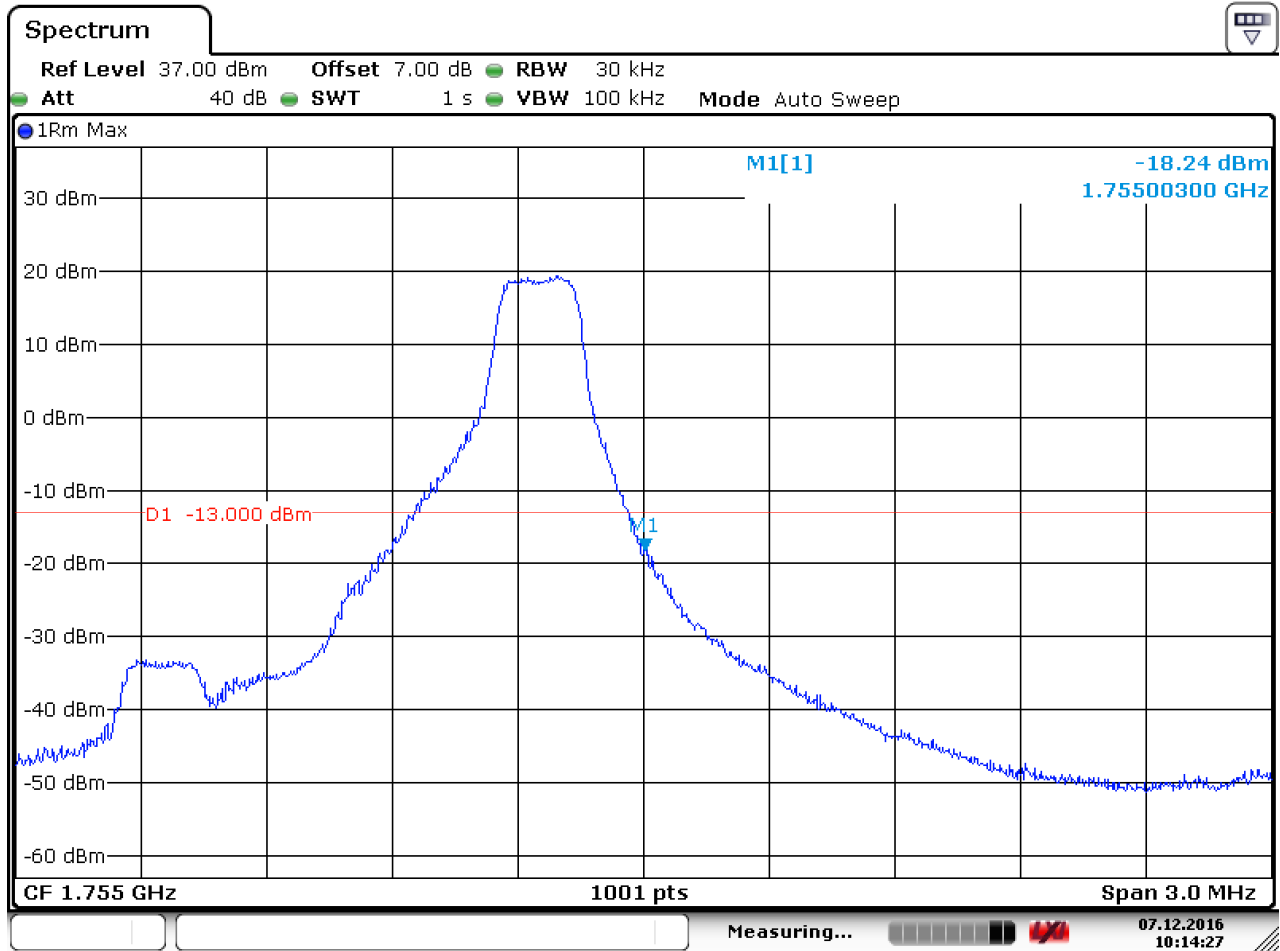
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5.1.1.2.2 Test Channel = HCH

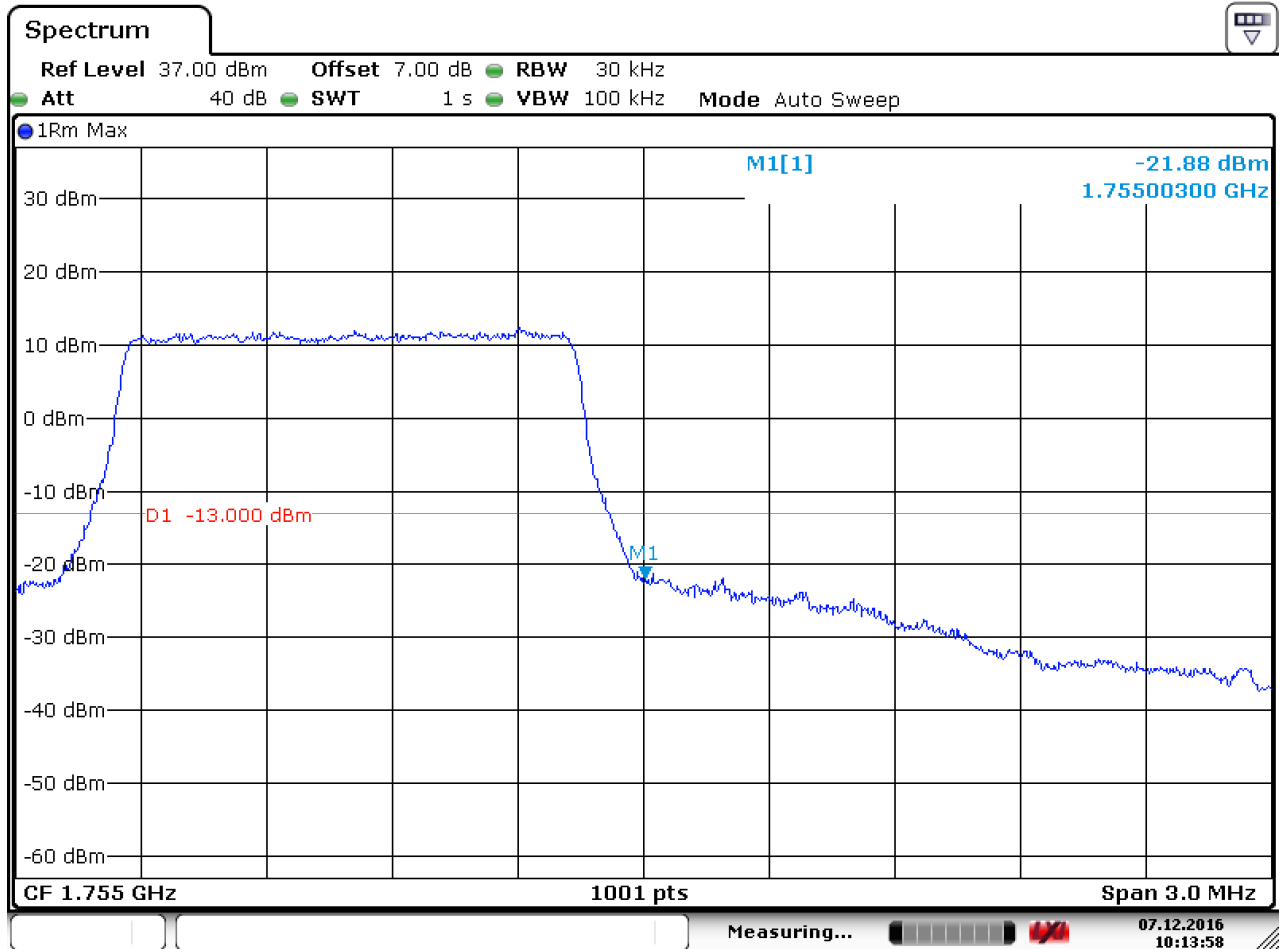
5.1.1.2.2.1 Test RB=1RB



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5.1.1.2.2.2 Test RB=6RB



Date: 7.DEC.2016 10:13:59

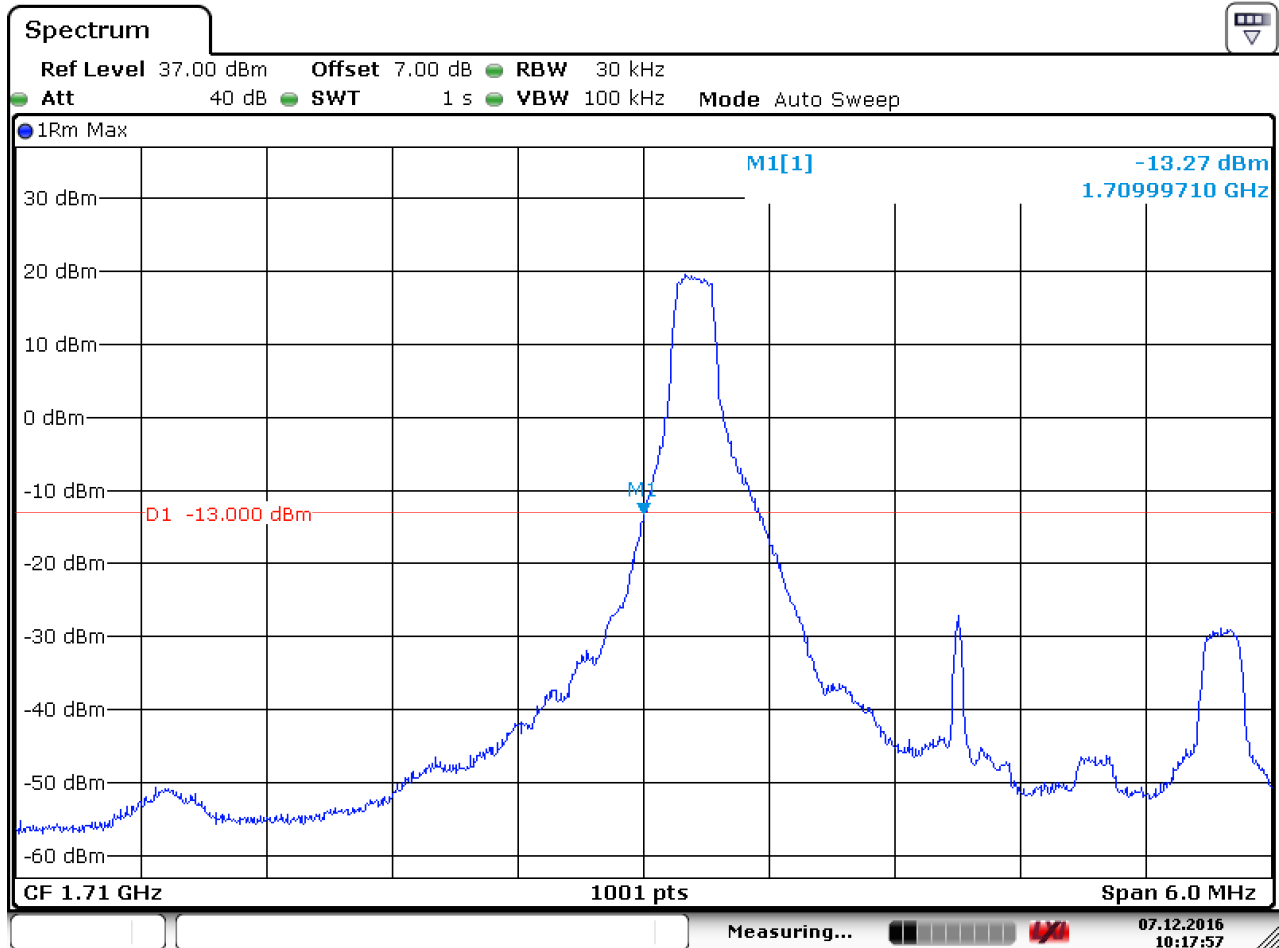
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5.1.1.3 Test Mode = LTE/TM1 3MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB

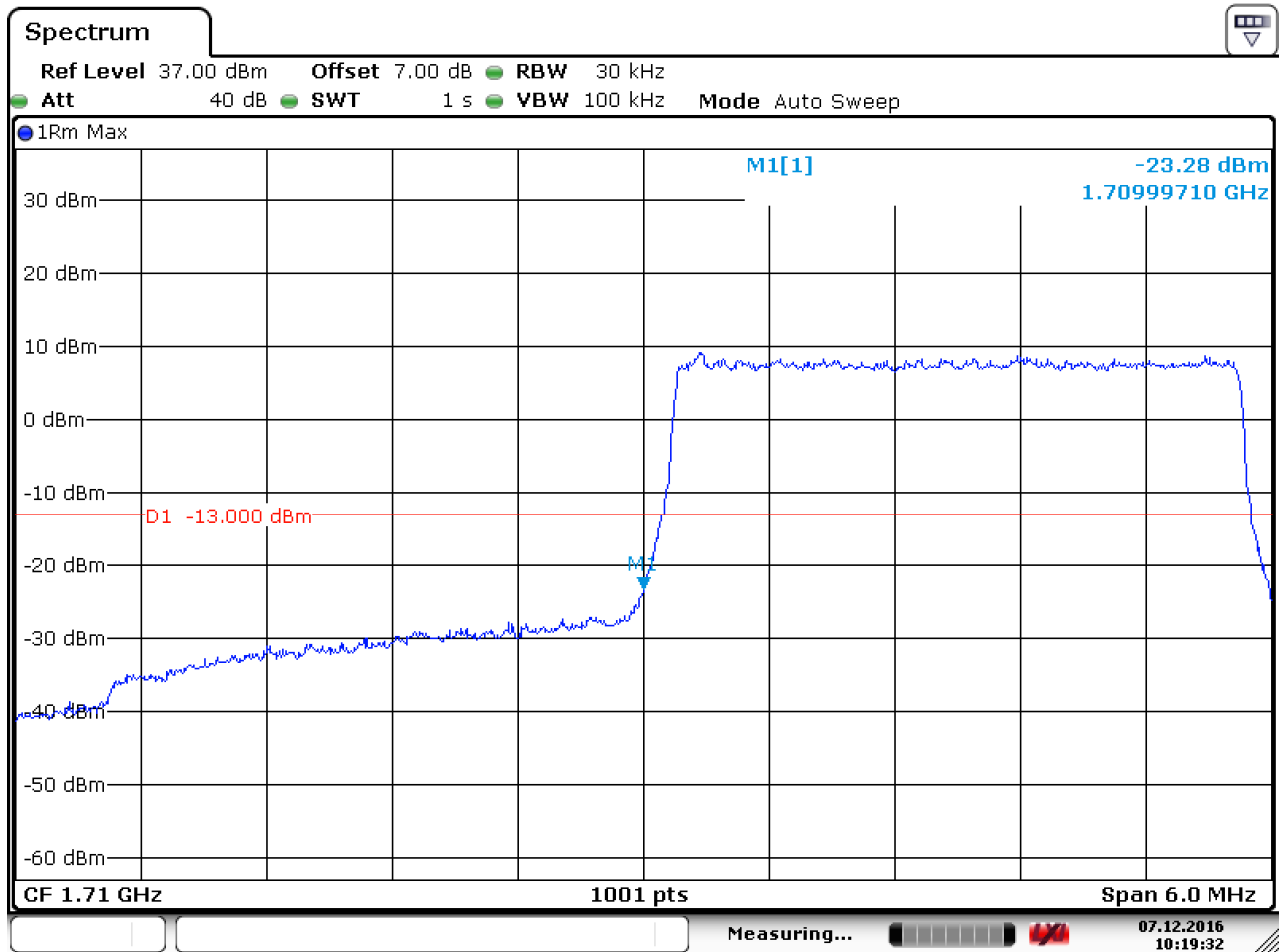


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5.1.1.3.1.2 Test RB=15RB



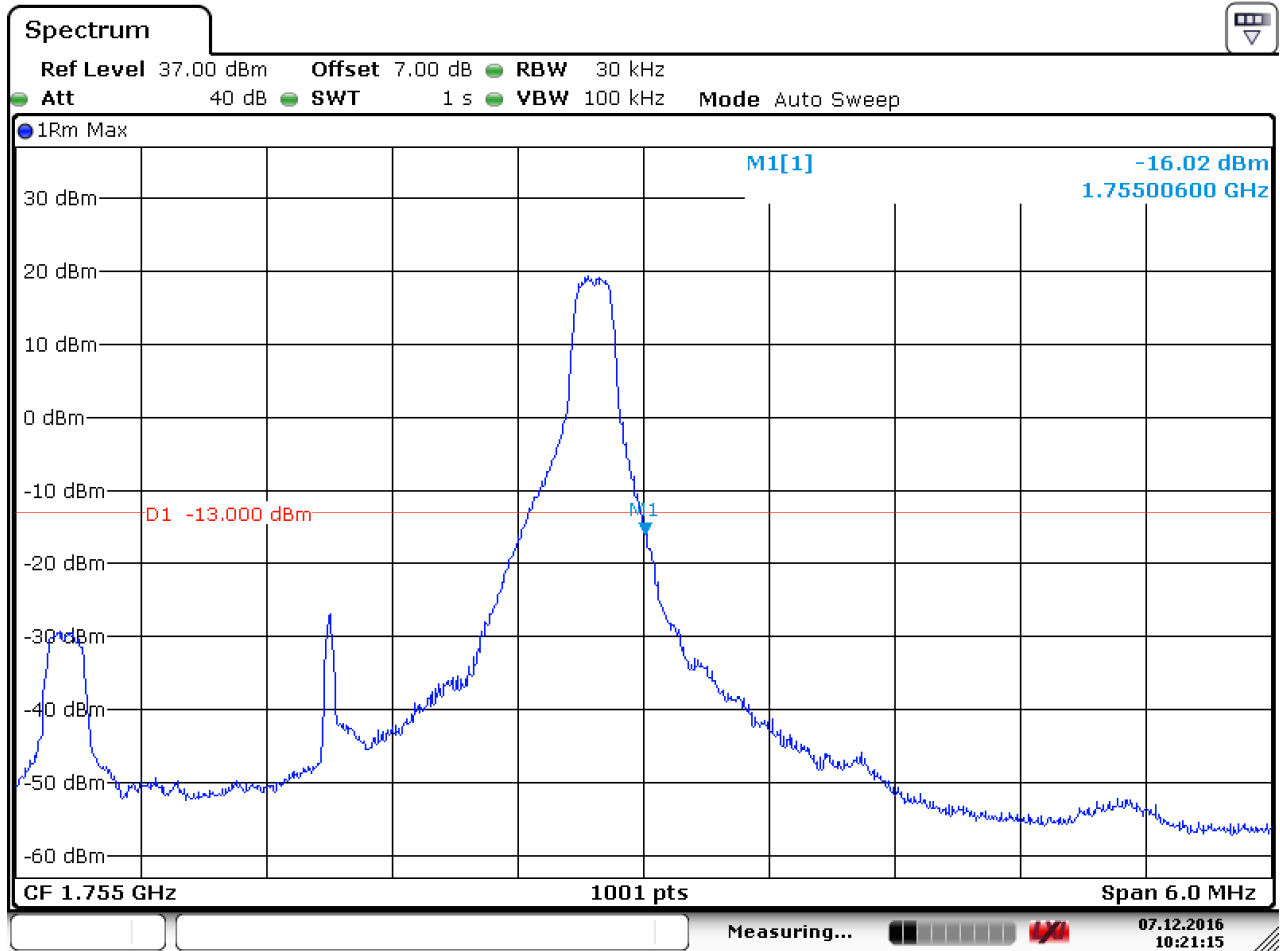
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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

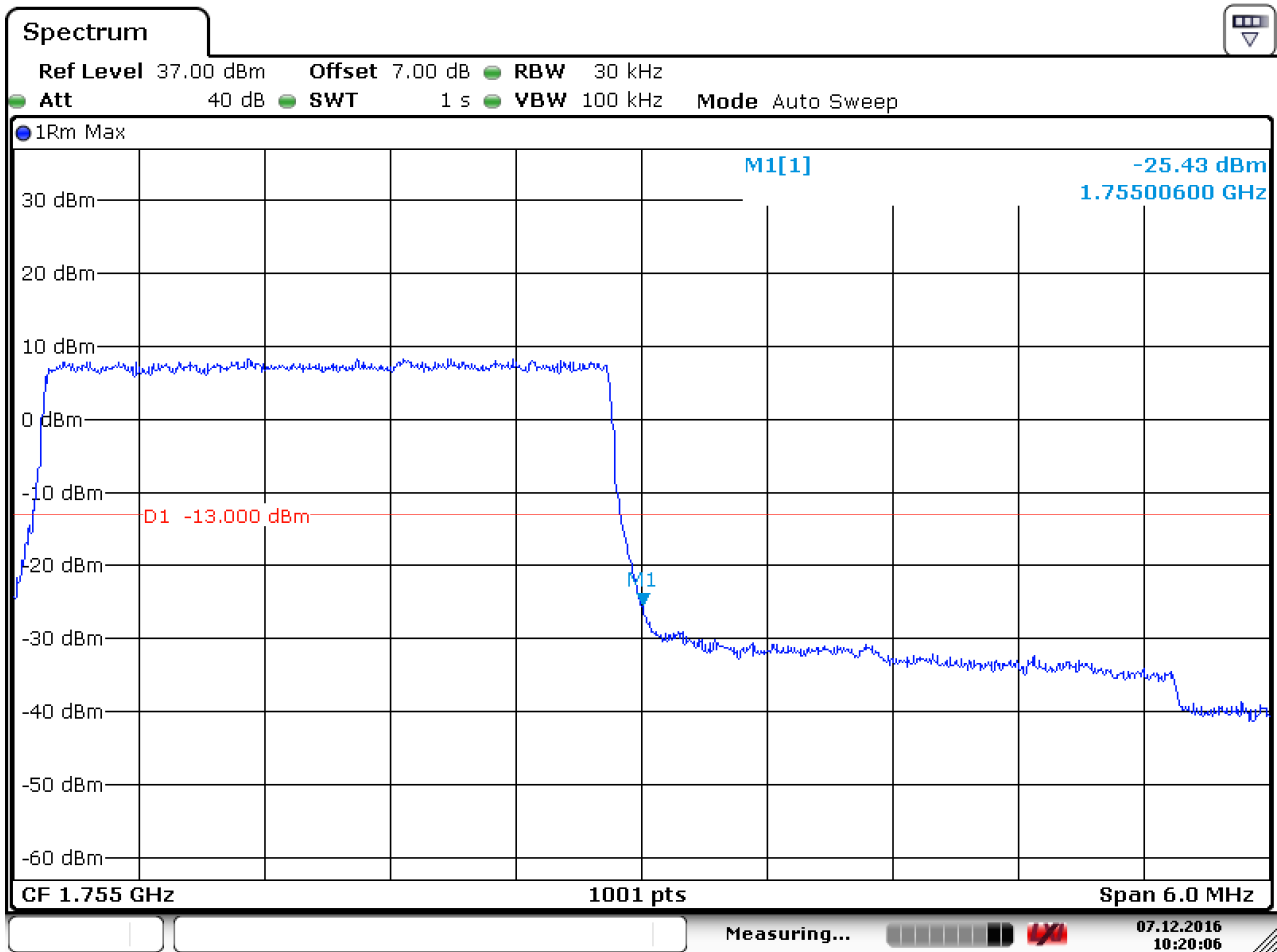


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5.1.1.3.2.2 Test RB=15RB



Date: 7.DEC.2016 10:20:07

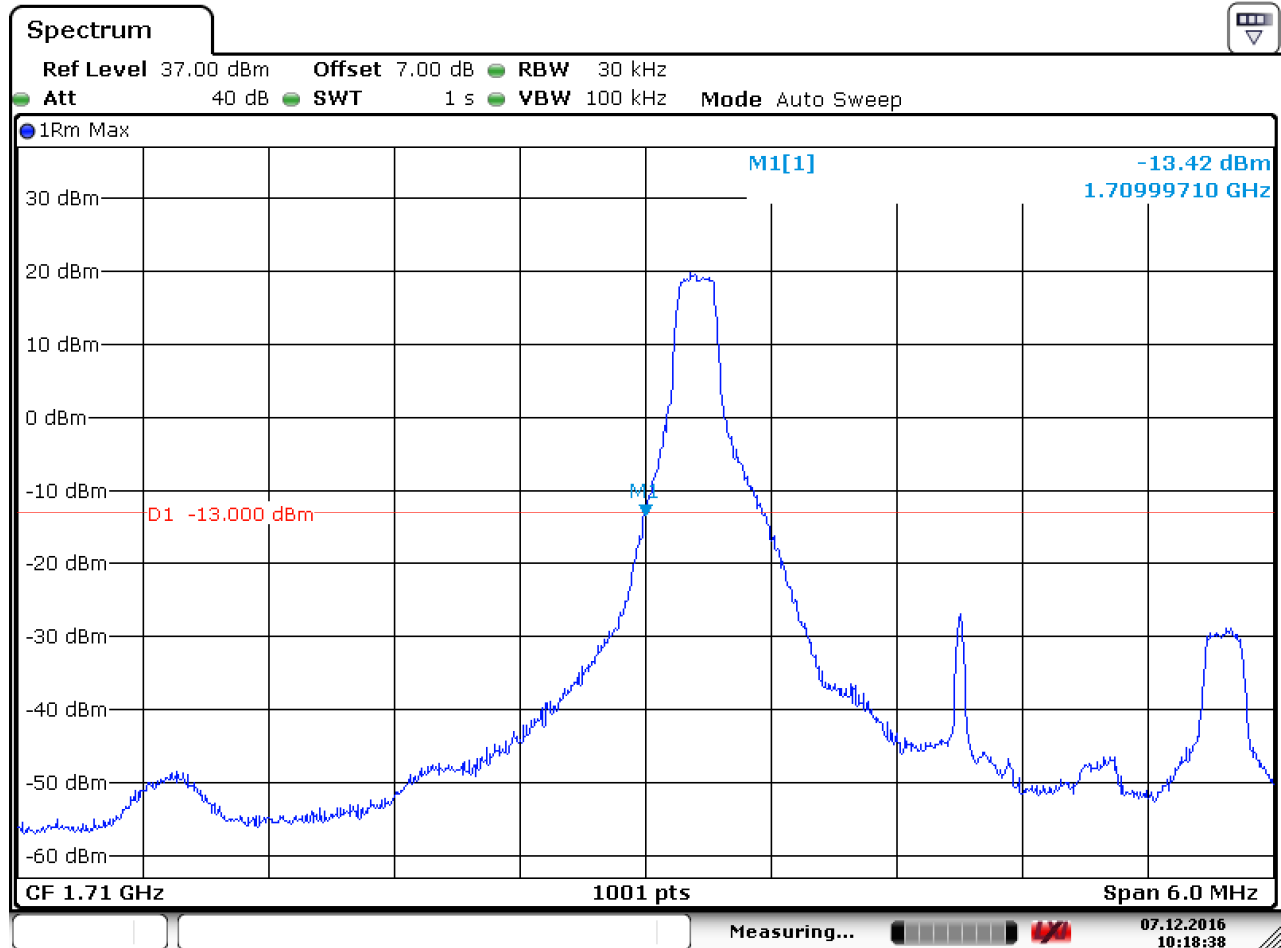
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5.1.1.4 Test Mode = LTE/TM2 3MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB

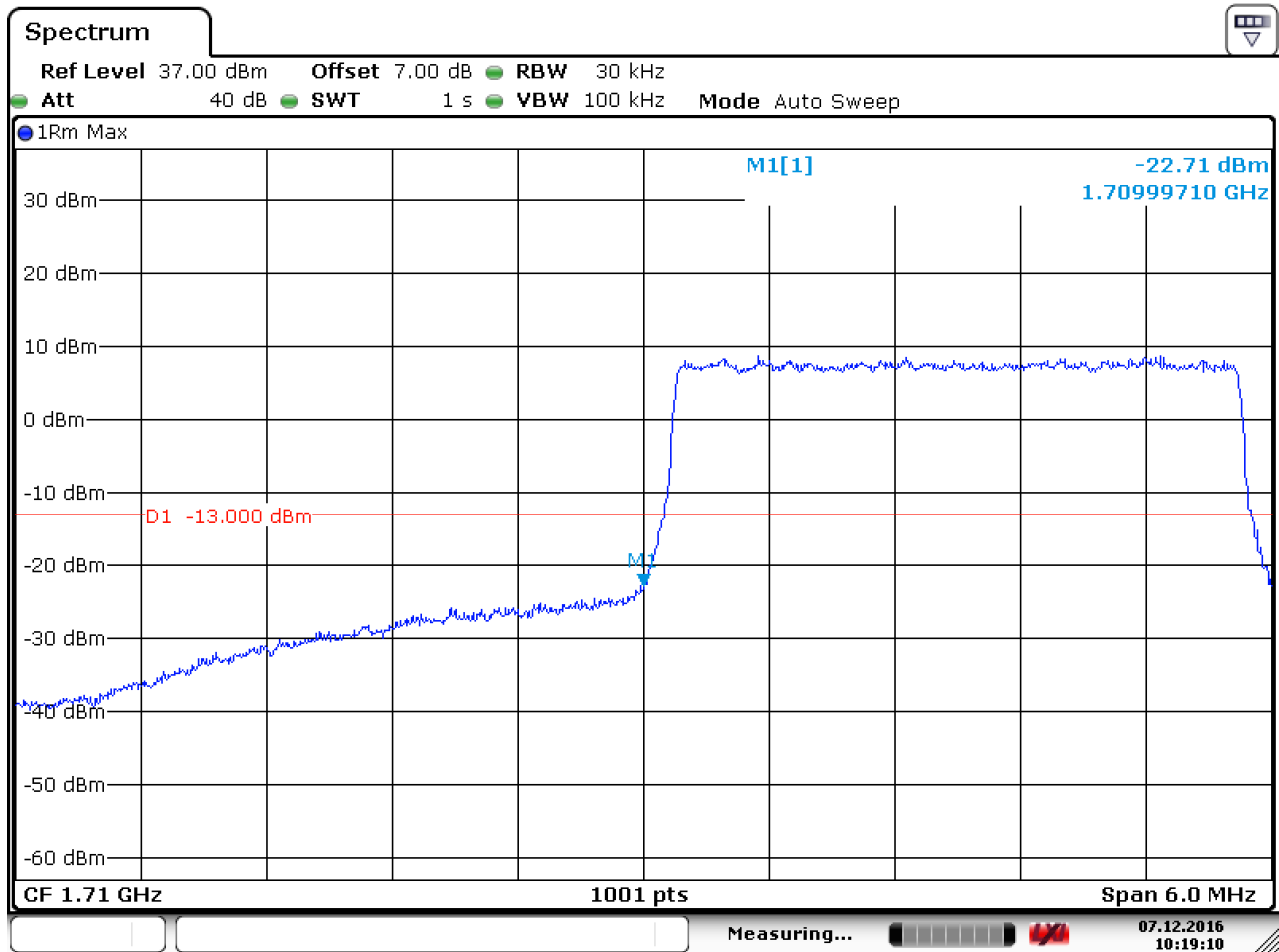


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5.1.1.4.1.2 Test RB=15RB

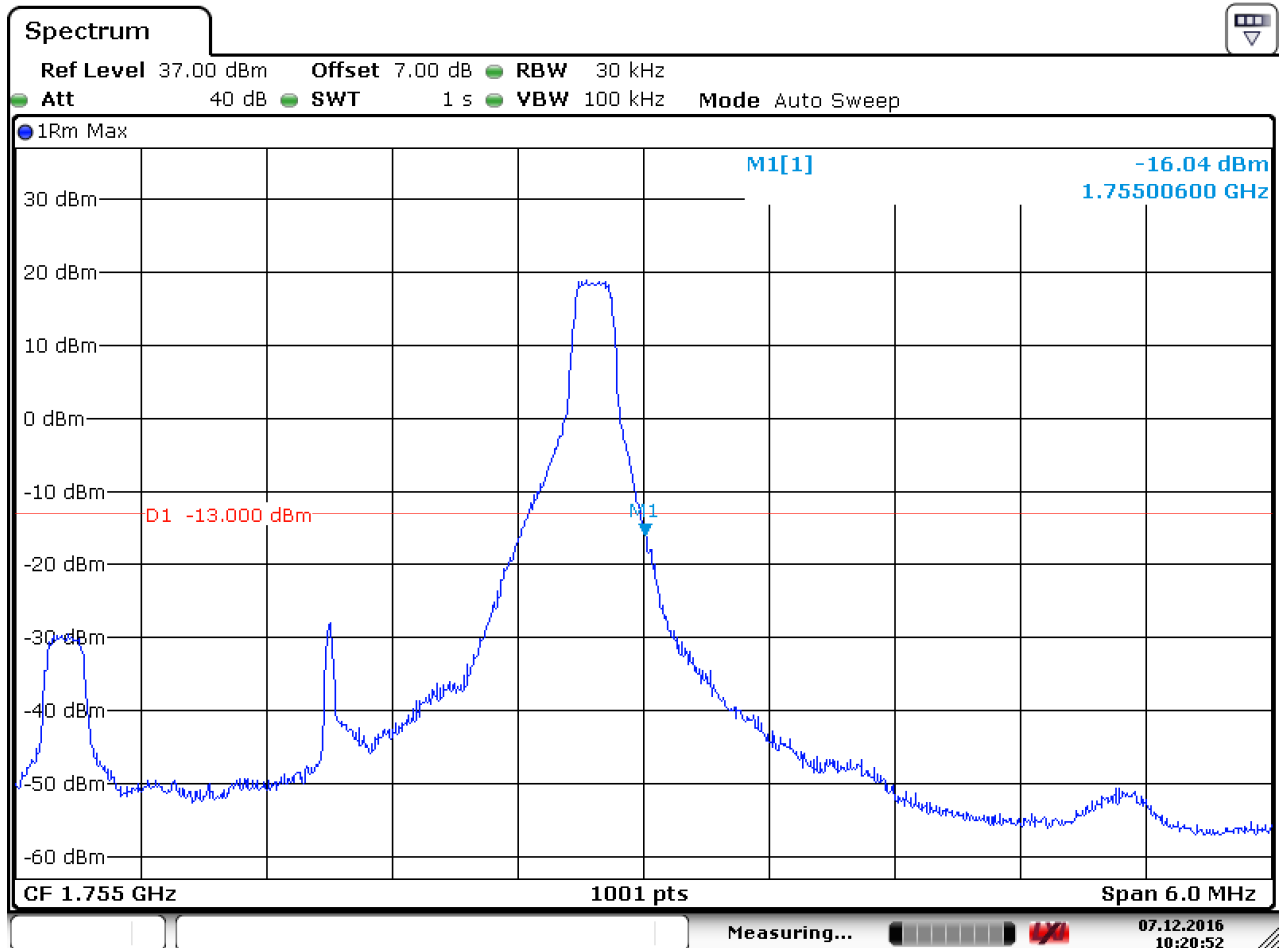


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5.1.1.4.2 Test Channel = HCH

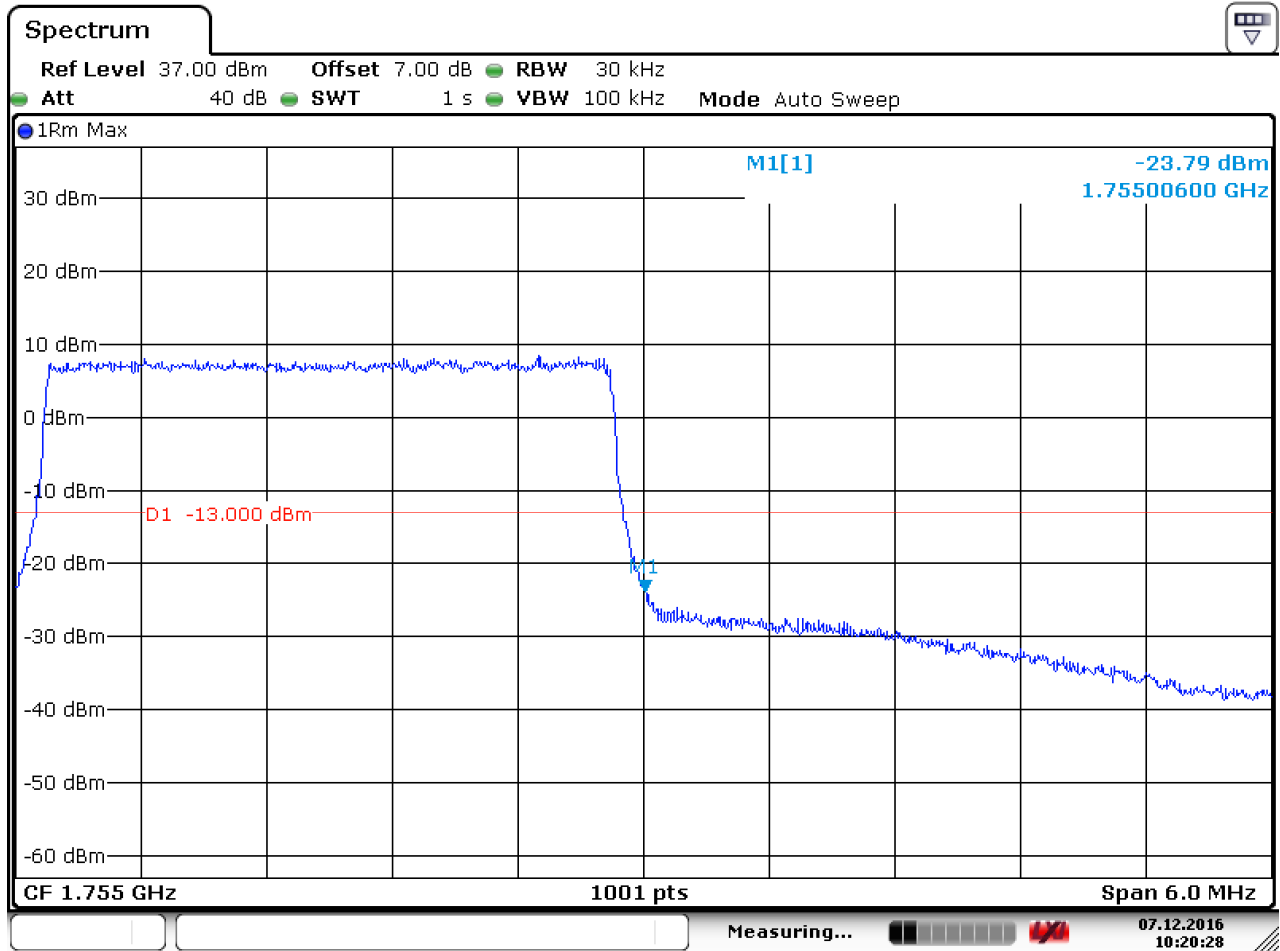
5.1.1.4.2.1 Test RB=1RB



Date: 7.DEC.2016 10:20:53



5.1.1.4.3 Test RB=15RB



Date: 7.DEC.2016 10:20:28

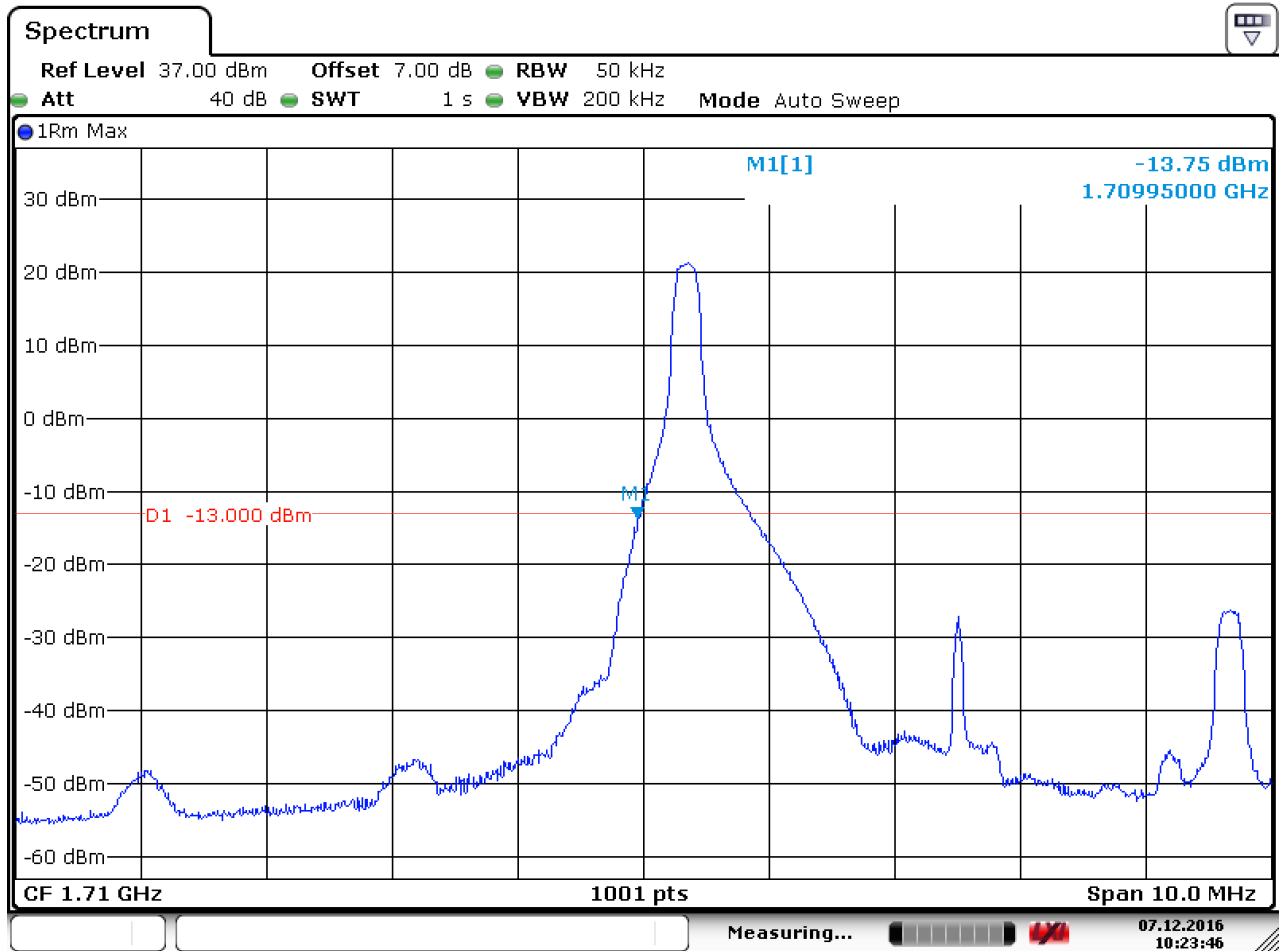
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5.1.1.5 Test Mode = LTE/TM1 5MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

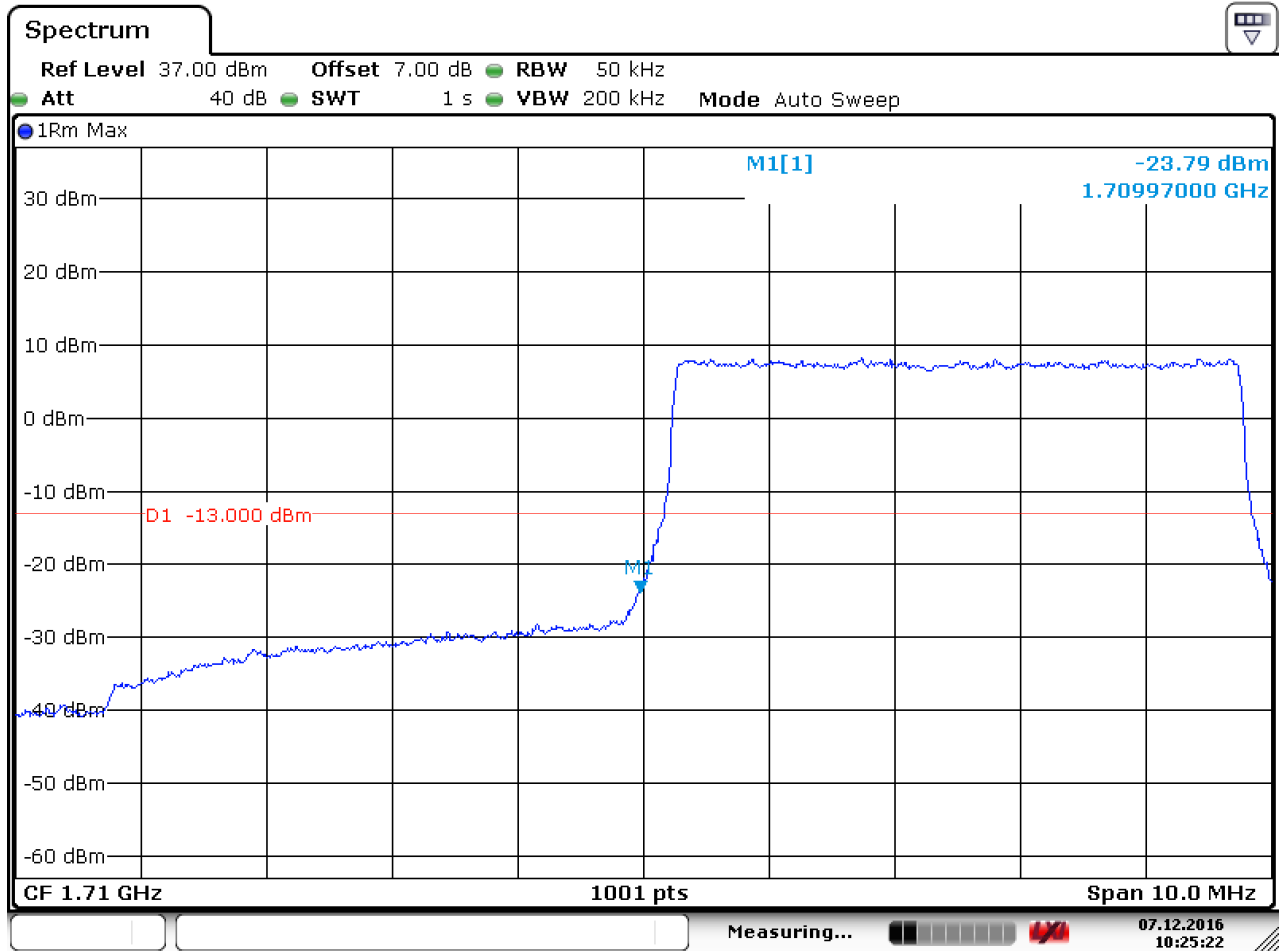


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5.1.1.5.1.2 Test RB=25RB



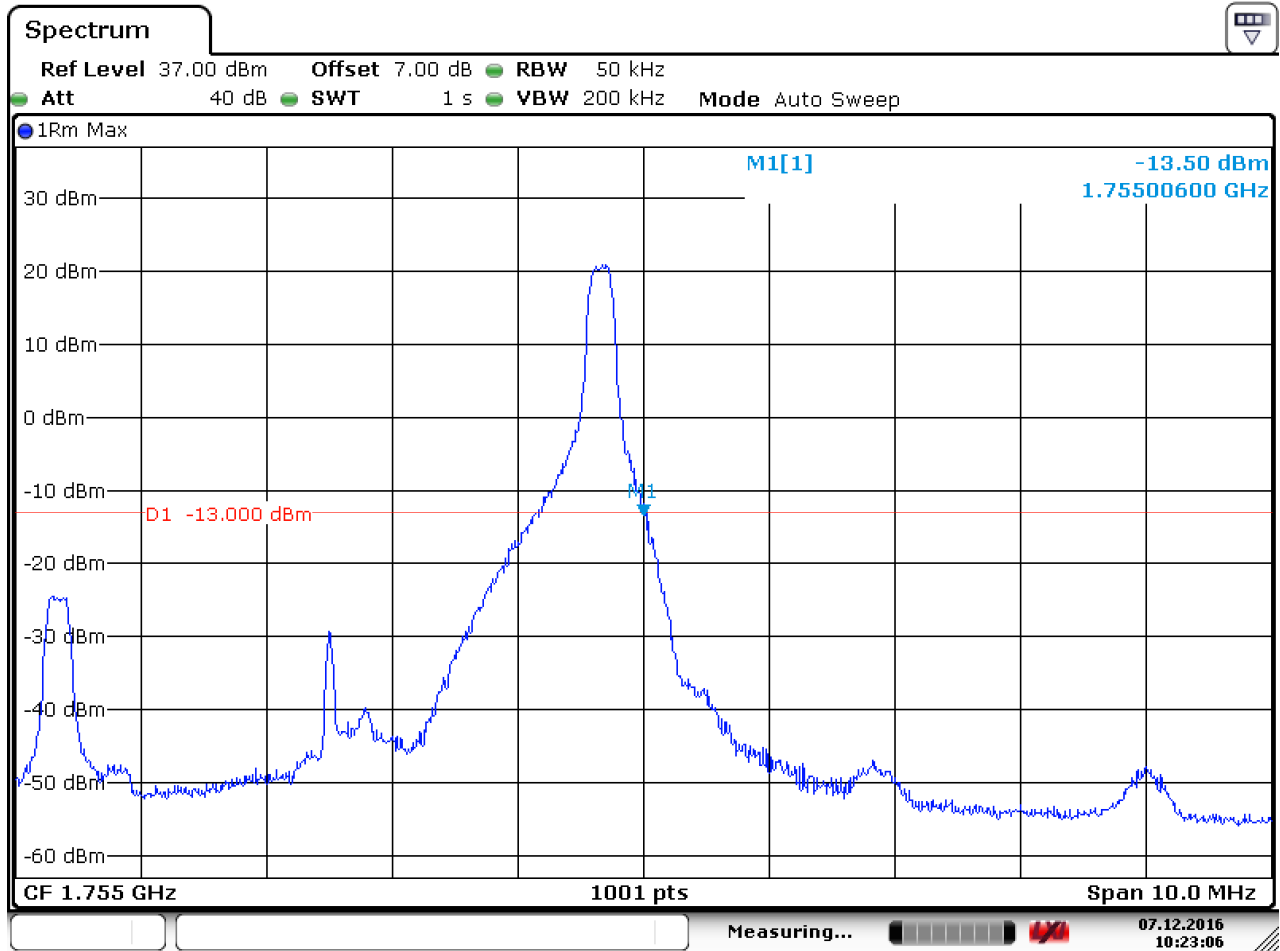
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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



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