



# Appendix B

## Test Data for SZEM161201085001RG



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# 1 Effective (Isotropic) Radiated Power Output Data

**Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 2**

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM1	1.4M	LCH	RB1#0	22.87	22.87	33.00	PASS
				RB1#2	22.96	22.96	33.00	PASS
				RB1#5	22.86	22.86	33.00	PASS
				RB3#0	21.95	21.95	33.00	PASS
				RB3#2	21.94	21.94	33.00	PASS
				RB3#3	21.92	21.92	33.00	PASS
				RB6#0	21.98	21.98	33.00	PASS
			MCH	RB1#0	22.87	22.87	33.00	PASS
				RB1#2	22.97	22.97	33.00	PASS
				RB1#5	22.90	22.90	33.00	PASS
				RB3#0	21.97	21.97	33.00	PASS
				RB3#2	21.93	21.93	33.00	PASS
				RB3#3	21.95	21.95	33.00	PASS
				RB6#0	21.97	21.97	33.00	PASS
			HCH	RB1#0	22.85	22.85	33.00	PASS
				RB1#2	22.94	22.94	33.00	PASS
				RB1#5	22.84	22.84	33.00	PASS
				RB3#0	21.93	21.93	33.00	PASS
				RB3#2	21.91	21.91	33.00	PASS
				RB3#3	21.90	21.90	33.00	PASS
				RB6#0	21.98	21.98	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM2	1.4M	LCH	RB1#0	22.08	22.08	33.00	PASS
				RB1#2	22.17	22.17	33.00	PASS
				RB1#5	22.09	22.09	33.00	PASS
				RB3#0	21.93	21.93	33.00	PASS
				RB3#2	21.89	21.89	33.00	PASS
				RB3#3	21.91	21.91	33.00	PASS
				RB6#0	20.99	20.99	33.00	PASS
			MCH	RB1#0	22.08	22.08	33.00	PASS
				RB1#2	22.18	22.18	33.00	PASS
				RB1#5	22.09	22.09	33.00	PASS
				RB3#0	21.95	21.95	33.00	PASS
				RB3#2	21.92	21.92	33.00	PASS
				RB3#3	21.95	21.95	33.00	PASS
				RB6#0	21.01	21.01	33.00	PASS
			HCH	RB1#0	22.01	22.01	33.00	PASS
				RB1#2	22.11	22.11	33.00	PASS
				RB1#5	22.00	22.00	33.00	PASS
				RB3#0	21.90	21.90	33.00	PASS
				RB3#2	21.87	21.87	33.00	PASS
				RB3#3	21.89	21.89	33.00	PASS
				RB6#0	20.95	20.95	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM1	3M	LCH	RB1#0	22.88	22.88	33.00	PASS
				RB1#7	22.89	22.89	33.00	PASS
				RB1#14	22.83	22.83	33.00	PASS
				RB8#0	21.97	21.97	33.00	PASS
				RB8#4	21.95	21.95	33.00	PASS
				RB8#7	21.94	21.94	33.00	PASS
				RB15#0	21.96	21.96	33.00	PASS
			MCH	RB1#0	22.84	22.84	33.00	PASS
				RB1#7	22.89	22.89	33.00	PASS
				RB1#14	22.83	22.83	33.00	PASS
				RB8#0	21.99	21.99	33.00	PASS
				RB8#4	21.94	21.94	33.00	PASS
				RB8#7	21.96	21.96	33.00	PASS
				RB15#0	21.97	21.97	33.00	PASS
			HCH	RB1#0	22.83	22.83	33.00	PASS
				RB1#7	22.85	22.85	33.00	PASS
				RB1#14	22.80	22.80	33.00	PASS
				RB8#0	21.95	21.95	33.00	PASS
				RB8#4	21.94	21.94	33.00	PASS
				RB8#7	21.93	21.93	33.00	PASS
				RB15#0	21.95	21.95	33.00	PASS

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BAND2	LTE/TM2	3M	LCH	RB1#0	21.98	21.98	33.00	PASS
				RB1#7	22.03	22.03	33.00	PASS
				RB1#14	21.94	21.94	33.00	PASS
				RB8#0	20.90	20.90	33.00	PASS
				RB8#4	20.89	20.89	33.00	PASS
				RB8#7	20.88	20.88	33.00	PASS
				RB15#0	20.85	20.85	33.00	PASS
			MCH	RB1#0	21.98	21.98	33.00	PASS
				RB1#7	22.07	22.07	33.00	PASS
				RB1#14	22.00	22.00	33.00	PASS
				RB8#0	20.94	20.94	33.00	PASS
				RB8#4	20.90	20.90	33.00	PASS
				RB8#7	20.92	20.92	33.00	PASS
				RB15#0	20.89	20.89	33.00	PASS
			HCH	RB1#0	21.98	21.98	33.00	PASS
				RB1#7	21.99	21.99	33.00	PASS
				RB1#14	21.93	21.93	33.00	PASS
				RB8#0	20.86	20.86	33.00	PASS
				RB8#4	20.85	20.85	33.00	PASS
				RB8#7	20.86	20.86	33.00	PASS
				RB15#0	20.82	20.82	33.00	PASS

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BAND2	LTE/TM1	5M	LCH	RB1#0	22.81	22.81	33.00	PASS
				RB1#13	22.80	22.80	33.00	PASS
				RB1#24	22.70	22.70	33.00	PASS
				RB12#0	21.89	21.89	33.00	PASS
				RB12#6	21.87	21.87	33.00	PASS
				RB12#13	21.84	21.84	33.00	PASS
				RB25#0	21.85	21.85	33.00	PASS
			MCH	RB1#0	22.82	22.82	33.00	PASS
				RB1#13	22.82	22.82	33.00	PASS
				RB1#24	22.72	22.72	33.00	PASS
				RB12#0	21.91	21.91	33.00	PASS
				RB12#6	21.87	21.87	33.00	PASS
				RB12#13	21.88	21.88	33.00	PASS
				RB25#0	21.85	21.85	33.00	PASS
			HCH	RB1#0	22.78	22.78	33.00	PASS
				RB1#13	22.78	22.78	33.00	PASS
				RB1#24	22.69	22.69	33.00	PASS
				RB12#0	21.87	21.87	33.00	PASS
				RB12#6	21.86	21.86	33.00	PASS
				RB12#13	21.83	21.83	33.00	PASS
				RB25#0	21.84	21.84	33.00	PASS

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BAND2	LTE/TM2	5M	LCH	RB1#0	22.13	22.13	33.00	PASS
				RB1#13	22.12	22.12	33.00	PASS
				RB1#24	22.04	22.04	33.00	PASS
				RB12#0	20.96	20.96	33.00	PASS
				RB12#6	20.94	20.94	33.00	PASS
				RB12#13	20.90	20.90	33.00	PASS
				RB25#0	20.91	20.91	33.00	PASS
			MCH	RB1#0	22.15	22.15	33.00	PASS
				RB1#13	22.13	22.13	33.00	PASS
				RB1#24	22.04	22.04	33.00	PASS
				RB12#0	20.96	20.96	33.00	PASS
				RB12#6	20.92	20.92	33.00	PASS
				RB12#13	20.93	20.93	33.00	PASS
				RB25#0	20.89	20.89	33.00	PASS
			HCH	RB1#0	22.08	22.08	33.00	PASS
				RB1#13	22.04	22.04	33.00	PASS
				RB1#24	21.97	21.97	33.00	PASS
				RB12#0	20.88	20.88	33.00	PASS
				RB12#6	20.89	20.89	33.00	PASS
				RB12#13	20.86	20.86	33.00	PASS
				RB25#0	20.86	20.86	33.00	PASS

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BAND2	LTE/TM1	10M	LCH	RB1#0	22.83	22.83	33.00	PASS
				RB1#25	22.75	22.75	33.00	PASS
				RB1#49	22.72	22.72	33.00	PASS
				RB25#0	21.82	21.82	33.00	PASS
				RB25#13	21.79	21.79	33.00	PASS
				RB25#25	21.77	21.77	33.00	PASS
				RB50#0	21.84	21.84	33.00	PASS
			MCH	RB1#0	22.79	22.79	33.00	PASS
				RB1#25	22.74	22.74	33.00	PASS
				RB1#49	22.71	22.71	33.00	PASS
				RB25#0	21.82	21.82	33.00	PASS
				RB25#13	21.79	21.79	33.00	PASS
				RB25#25	21.77	21.77	33.00	PASS
				RB50#0	21.81	21.81	33.00	PASS
			HCH	RB1#0	22.75	22.75	33.00	PASS
				RB1#25	22.71	22.71	33.00	PASS
				RB1#49	22.66	22.66	33.00	PASS
				RB25#0	21.80	21.80	33.00	PASS
				RB25#13	21.78	21.78	33.00	PASS
				RB25#25	21.75	21.75	33.00	PASS
				RB50#0	21.79	21.79	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM2	10M	LCH	RB1#0	22.08	22.08	33.00	PASS
				RB1#25	21.99	21.99	33.00	PASS
				RB1#49	21.99	21.99	33.00	PASS
				RB25#0	20.82	20.82	33.00	PASS
				RB25#13	20.79	20.79	33.00	PASS
				RB25#25	20.79	20.79	33.00	PASS
				RB50#0	20.82	20.82	33.00	PASS
			MCH	RB1#0	22.05	22.05	33.00	PASS
				RB1#25	21.98	21.98	33.00	PASS
				RB1#49	21.94	21.94	33.00	PASS
				RB25#0	20.83	20.83	33.00	PASS
				RB25#13	20.81	20.81	33.00	PASS
				RB25#25	20.78	20.78	33.00	PASS
				RB50#0	20.81	20.81	33.00	PASS
			HCH	RB1#0	21.99	21.99	33.00	PASS
				RB1#25	21.95	21.95	33.00	PASS
				RB1#49	21.89	21.89	33.00	PASS
				RB25#0	20.80	20.80	33.00	PASS
				RB25#13	20.78	20.78	33.00	PASS
				RB25#25	20.75	20.75	33.00	PASS
				RB50#0	20.79	20.79	33.00	PASS

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BAND2	LTE/TM1	15M	LCH	RB1#0	22.90	22.90	33.00	PASS
				RB1#38	22.82	22.82	33.00	PASS
				RB1#74	22.78	22.78	33.00	PASS
				RB36#0	21.93	21.93	33.00	PASS
				RB36#18	21.87	21.87	33.00	PASS
				RB36#39	21.84	21.84	33.00	PASS
				RB75#0	21.88	21.88	33.00	PASS
			MCH	RB1#0	22.88	22.88	33.00	PASS
				RB1#38	22.81	22.81	33.00	PASS
				RB1#74	22.80	22.80	33.00	PASS
				RB36#0	21.92	21.92	33.00	PASS
				RB36#18	21.87	21.87	33.00	PASS
				RB36#39	21.86	21.86	33.00	PASS
				RB75#0	21.88	21.88	33.00	PASS
			HCH	RB1#0	22.82	22.82	33.00	PASS
				RB1#38	22.75	22.75	33.00	PASS
				RB1#74	22.73	22.73	33.00	PASS
				RB36#0	21.88	21.88	33.00	PASS
				RB36#18	21.86	21.86	33.00	PASS
				RB36#39	21.83	21.83	33.00	PASS
				RB75#0	21.86	21.86	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM2	15M	LCH	RB1#0	22.15	22.15	33.00	PASS
				RB1#38	22.08	22.08	33.00	PASS
				RB1#74	22.04	22.04	33.00	PASS
				RB36#0	20.93	20.93	33.00	PASS
				RB36#18	20.90	20.90	33.00	PASS
				RB36#39	20.85	20.85	33.00	PASS
				RB75#0	20.91	20.91	33.00	PASS
			MCH	RB1#0	22.15	22.15	33.00	PASS
				RB1#38	22.06	22.06	33.00	PASS
				RB1#74	22.08	22.08	33.00	PASS
				RB36#0	20.93	20.93	33.00	PASS
				RB36#18	20.89	20.89	33.00	PASS
				RB36#39	20.88	20.88	33.00	PASS
				RB75#0	20.89	20.89	33.00	PASS
			HCH	RB1#0	22.10	22.10	33.00	PASS
				RB1#38	22.02	22.02	33.00	PASS
				RB1#74	21.98	21.98	33.00	PASS
				RB36#0	20.85	20.85	33.00	PASS
				RB36#18	20.84	20.84	33.00	PASS
				RB36#39	20.83	20.83	33.00	PASS
				RB75#0	20.82	20.82	33.00	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
BAND2	LTE/TM1	20M	LCH	RB1#0	22.91	22.91	33.00	PASS
				RB1#50	22.79	22.79	33.00	PASS
				RB1#99	22.83	22.83	33.00	PASS
				RB50#0	21.78	21.78	33.00	PASS
				RB50#25	21.75	21.75	33.00	PASS
				RB50#50	21.72	21.72	33.00	PASS
				RB100#0	21.75	21.75	33.00	PASS
			MCH	RB1#0	22.89	22.89	33.00	PASS
				RB1#50	22.79	22.79	33.00	PASS
				RB1#99	22.86	22.86	33.00	PASS
				RB50#0	21.81	21.81	33.00	PASS
				RB50#25	21.77	21.77	33.00	PASS
				RB50#50	21.76	21.76	33.00	PASS
				RB100#0	21.77	21.77	33.00	PASS
			HCH	RB1#0	22.88	22.88	33.00	PASS
				RB1#50	22.85	22.85	33.00	PASS
				RB1#99	22.78	22.78	33.00	PASS
				RB50#0	21.82	21.82	33.00	PASS
				RB50#25	21.74	21.74	33.00	PASS
				RB50#50	21.76	21.76	33.00	PASS
				RB100#0	21.77	21.77	33.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND2	LTE/TM2	20M	LCH	RB1#0	22.38	22.38	33.00	PASS
				RB1#50	22.31	22.31	33.00	PASS
				RB1#99	22.23	22.23	33.00	PASS
				RB50#0	20.84	20.84	33.00	PASS
				RB50#25	20.77	20.77	33.00	PASS
				RB50#50	20.76	20.76	33.00	PASS
				RB100#0	20.84	20.84	33.00	PASS
			MCH	RB1#0	22.23	22.23	33.00	PASS
				RB1#50	22.22	22.22	33.00	PASS
				RB1#99	22.28	22.28	33.00	PASS
				RB50#0	20.82	20.82	33.00	PASS
				RB50#25	20.83	20.83	33.00	PASS
				RB50#50	20.83	20.83	33.00	PASS
				RB100#0	20.80	20.80	33.00	PASS
			HCH	RB1#0	22.21	22.21	33.00	PASS
				RB1#50	22.12	22.12	33.00	PASS
				RB1#99	22.13	22.13	33.00	PASS
				RB50#0	20.83	20.83	33.00	PASS
				RB50#25	20.82	20.82	33.00	PASS
				RB50#50	20.81	20.81	33.00	PASS
				RB100#0	20.81	20.81	33.00	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 2	TM1/20M	LCH	4.75	13	PASS
		MCH	4.96	13	PASS
		HCH	5.04	13	PASS
	TM2/20M	LCH	5.74	13	PASS
		MCH	5.88	13	PASS
		HCH	5.94	13	PASS



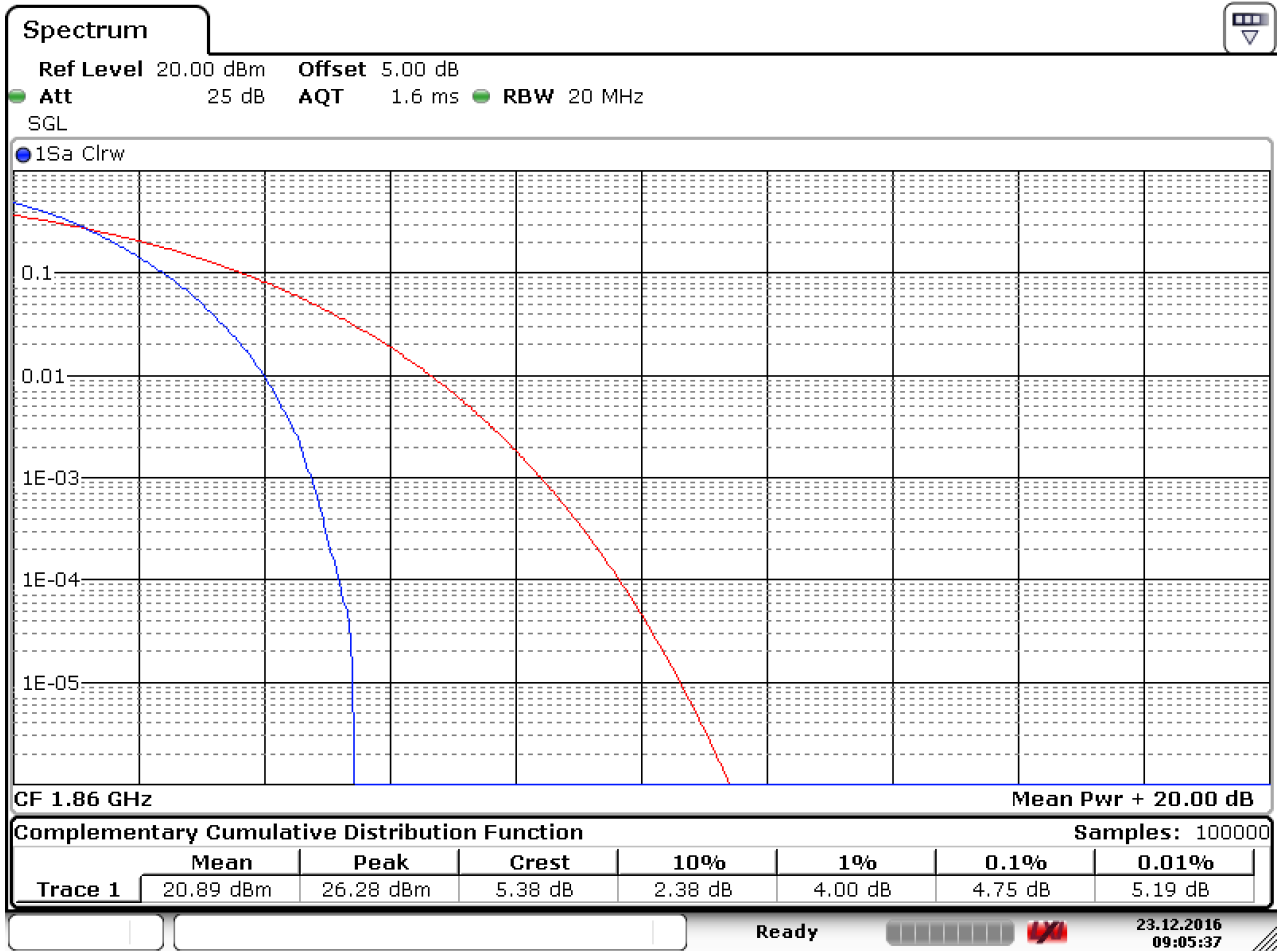
**Part II - Test Plots**

**2.1 For LTE**

**2.1.1 Test Band = LTE band2**

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

**2.1.1.1.1 Test Channel = LCH**



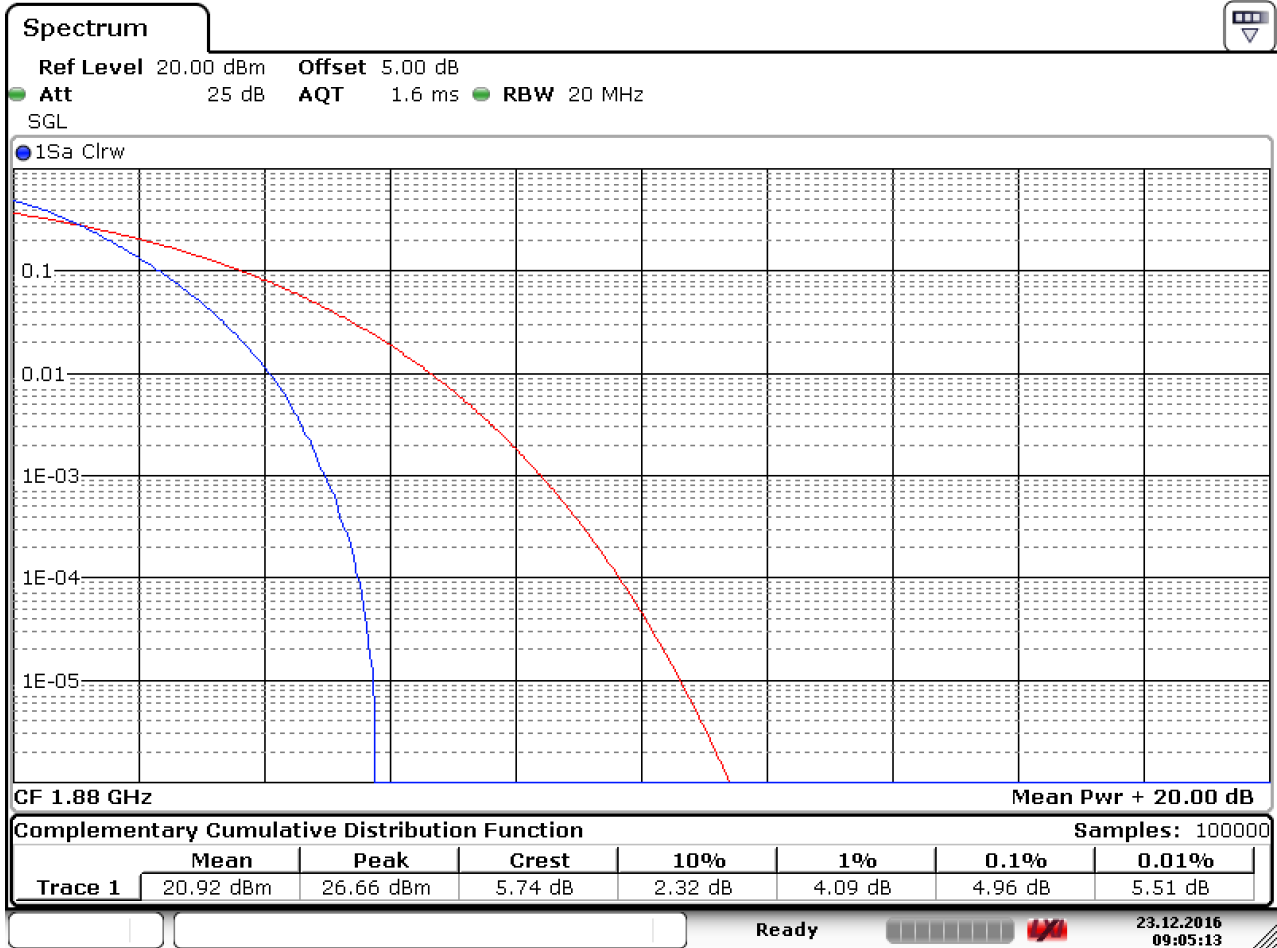
Date: 23.DEC.2016 09:05:38

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2.1.1.1.2 Test Channel = MCH

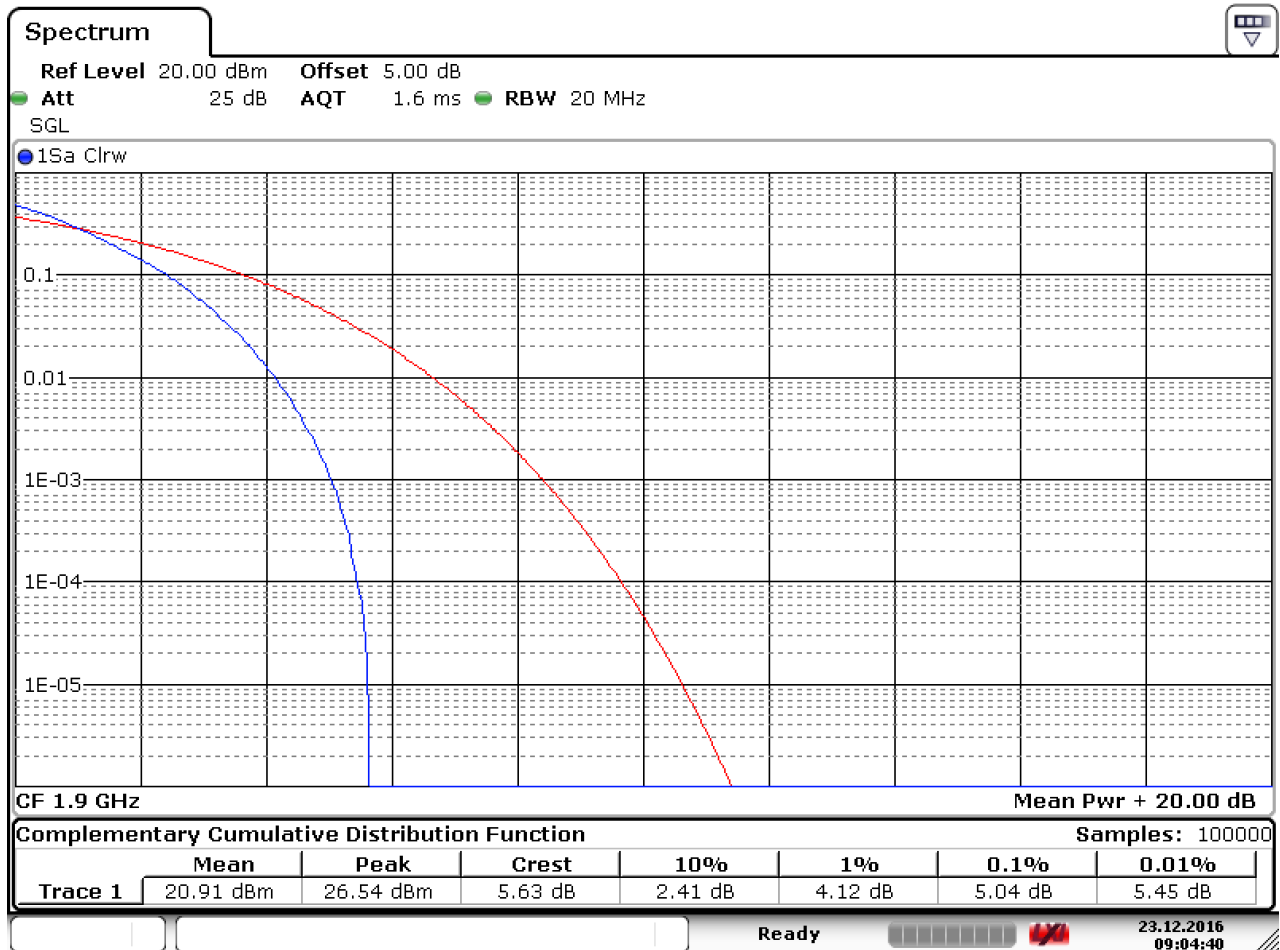


Date: 23.DEC.2016 09:05:14

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2.1.1.1.3 Test Channel = HCH



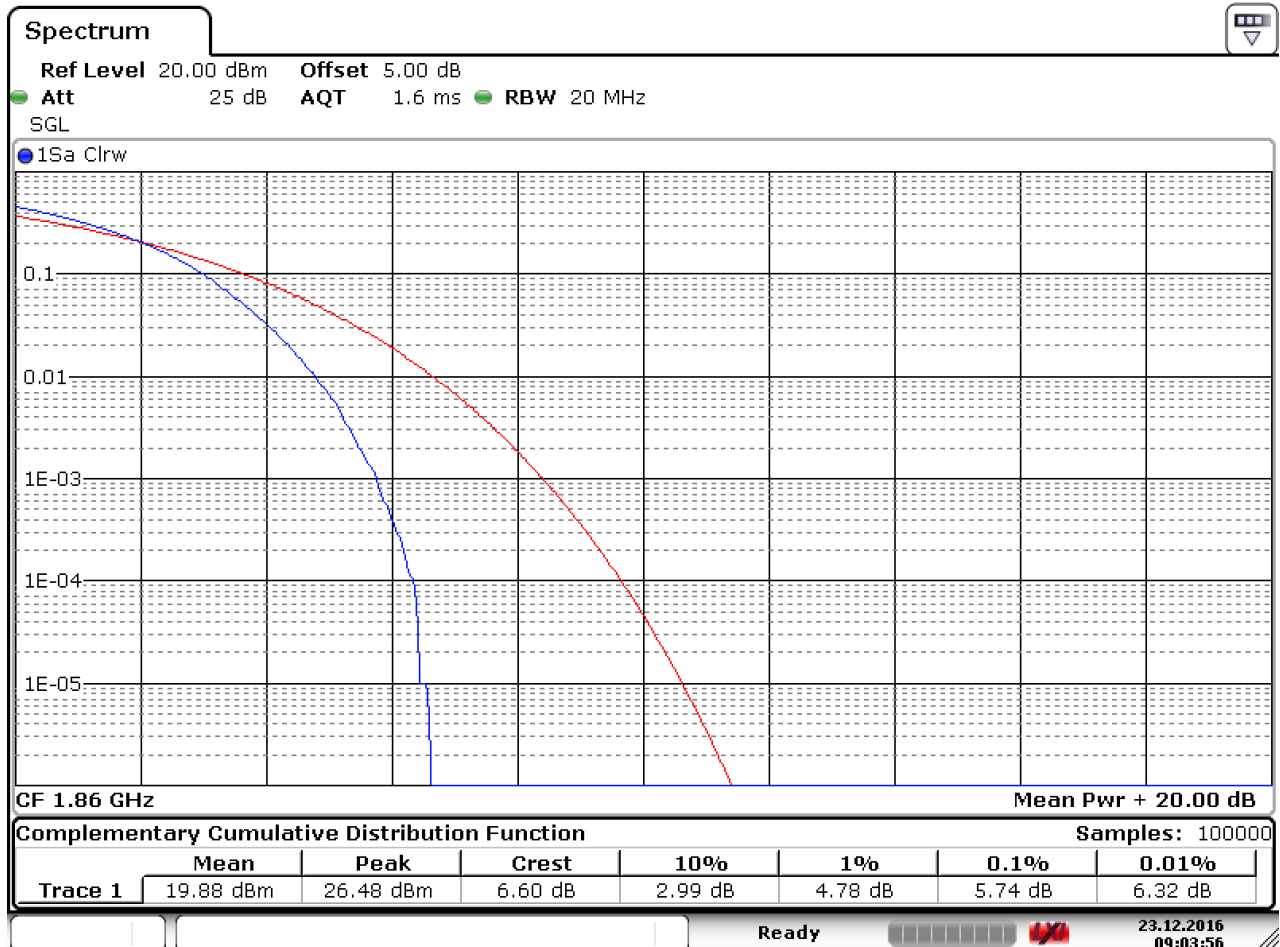
Date: 23.DEC.2016 09:04:40

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

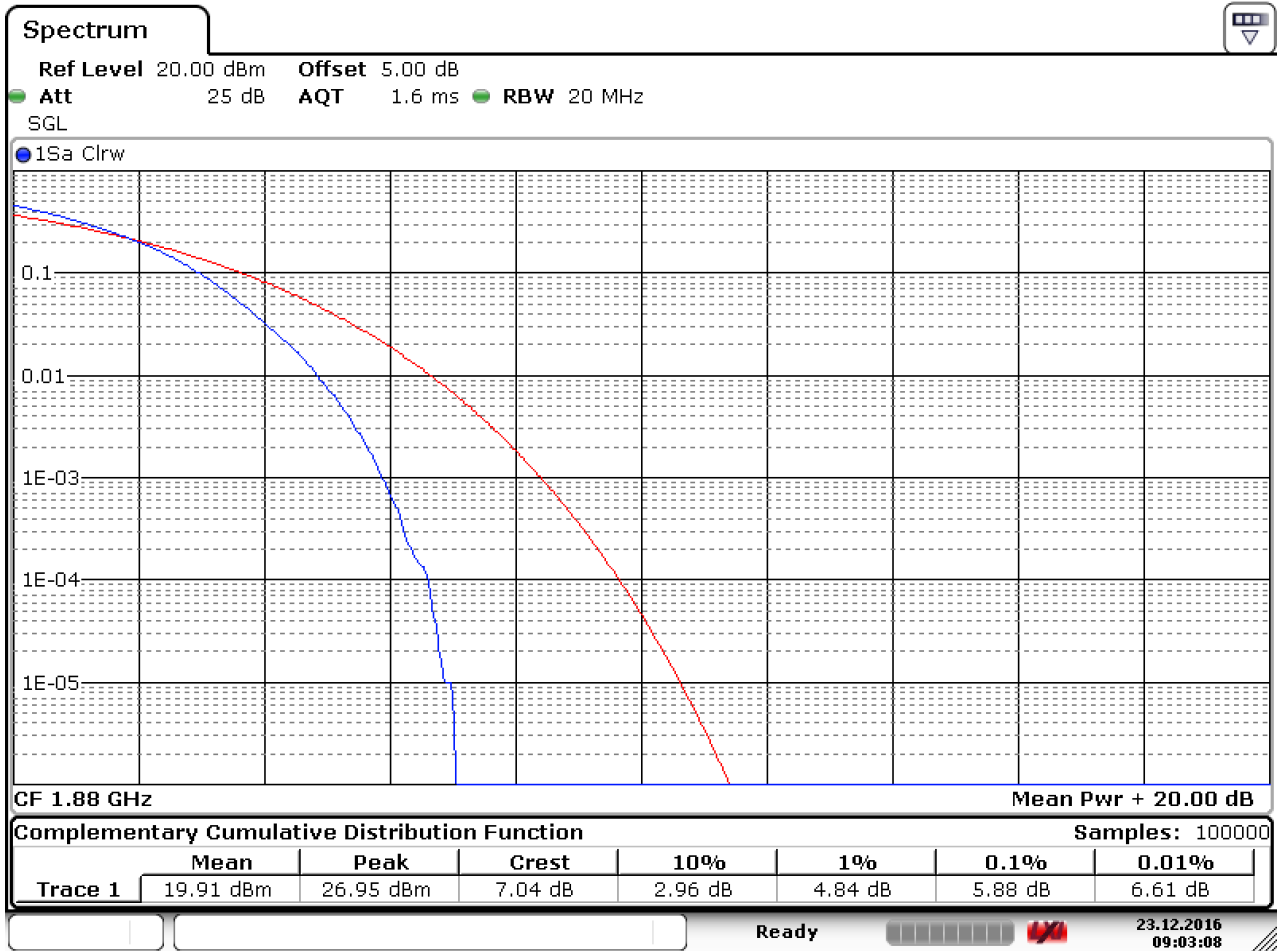
**2.1.1.2.1 Test Channel = LCH**



Date: 23.DEC.2016 09:03:56



2.1.1.2.2 Test Channel = MCH

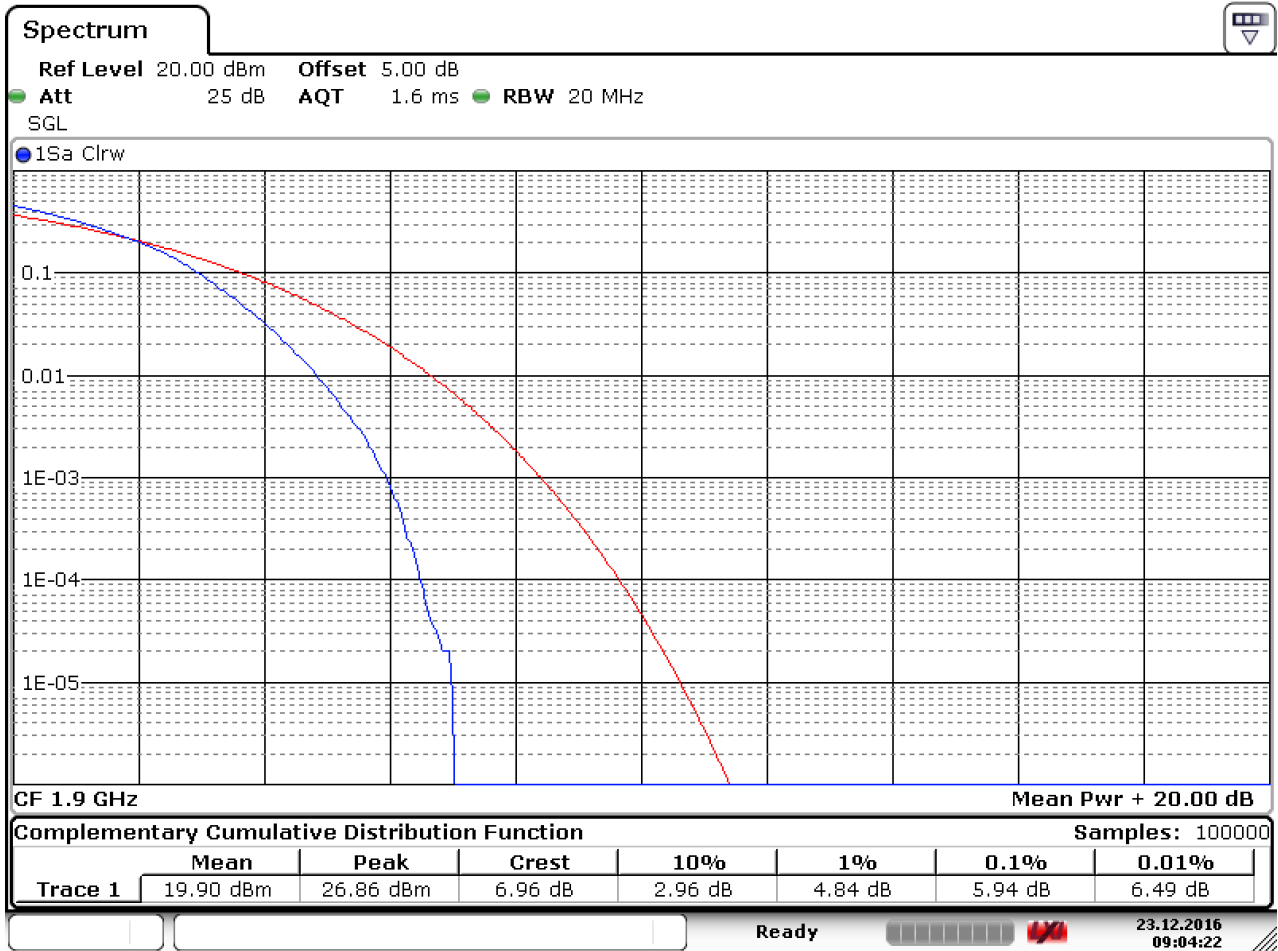


Date: 23.DEC.2016 09:03:08

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2.1.1.2.3 Test Channel = HCH



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### 3 Modulation Characteristics

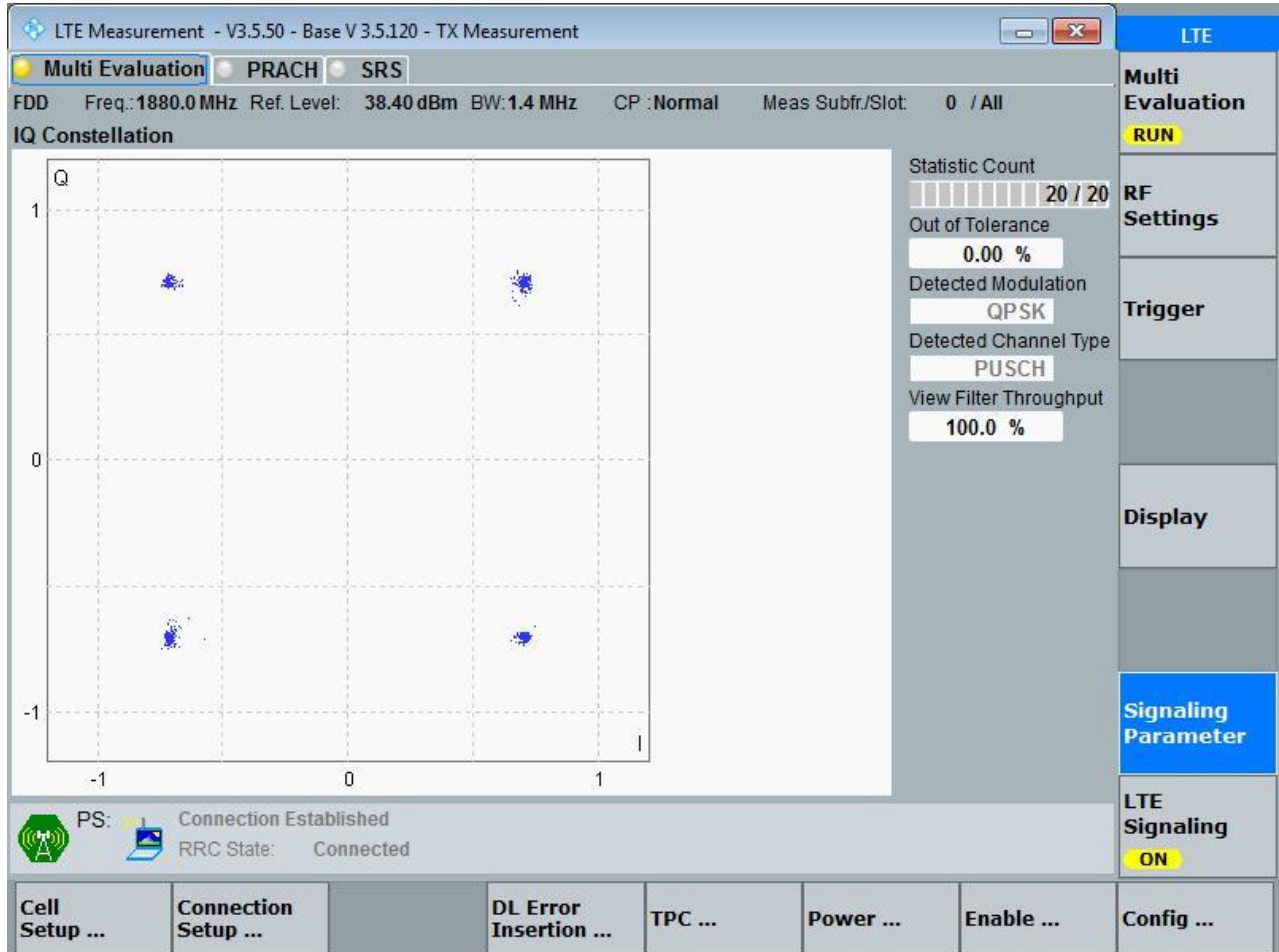
Part I - Test Plots

#### 3.1 For LTE

##### 3.1.1 Test Band = LTE band2

##### 3.1.1.1 Test Mode = LTE /TM1 1.4MHz

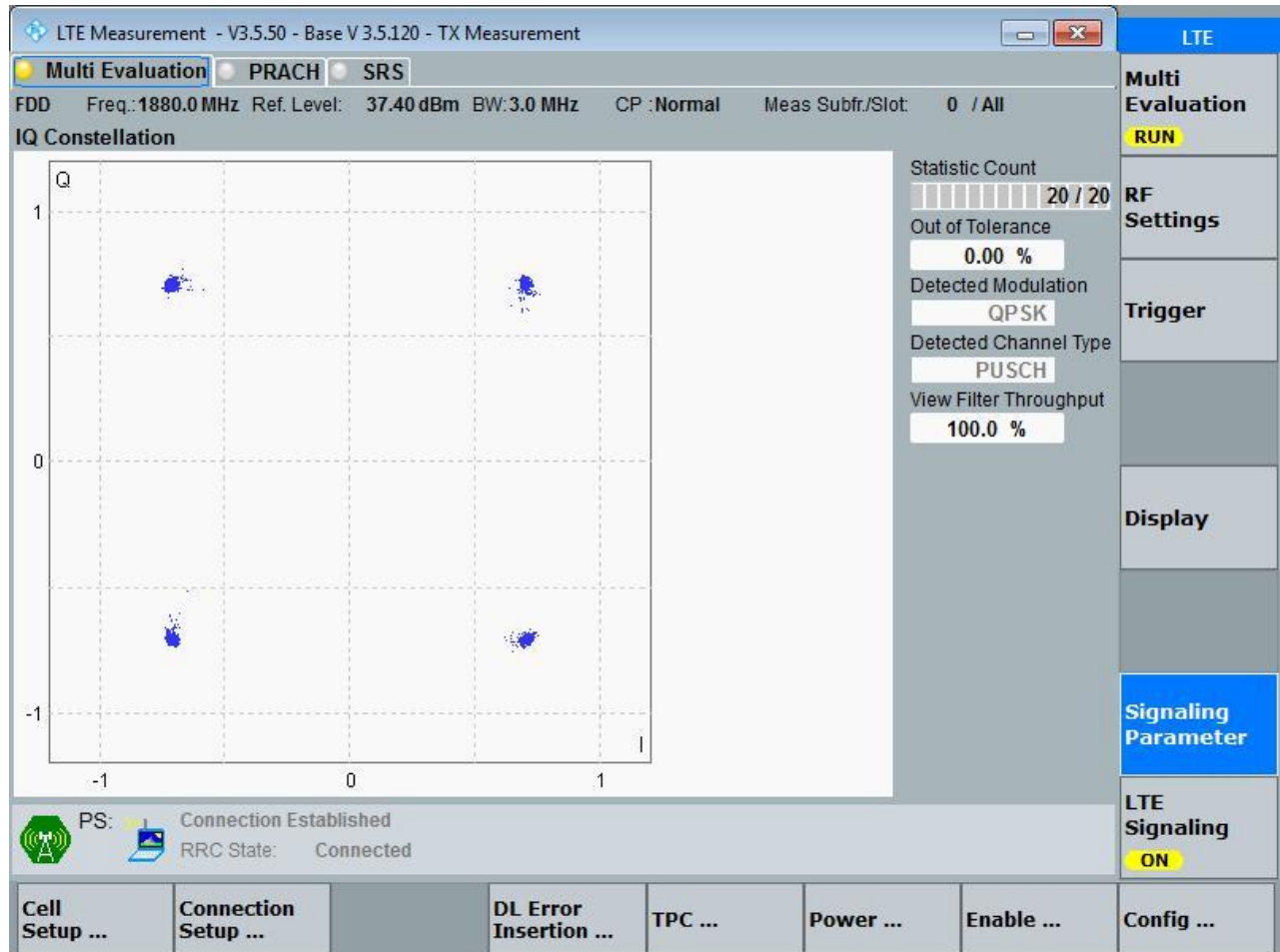
##### 3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 3MHz

3.1.1.2.1 Test Channel = MCH

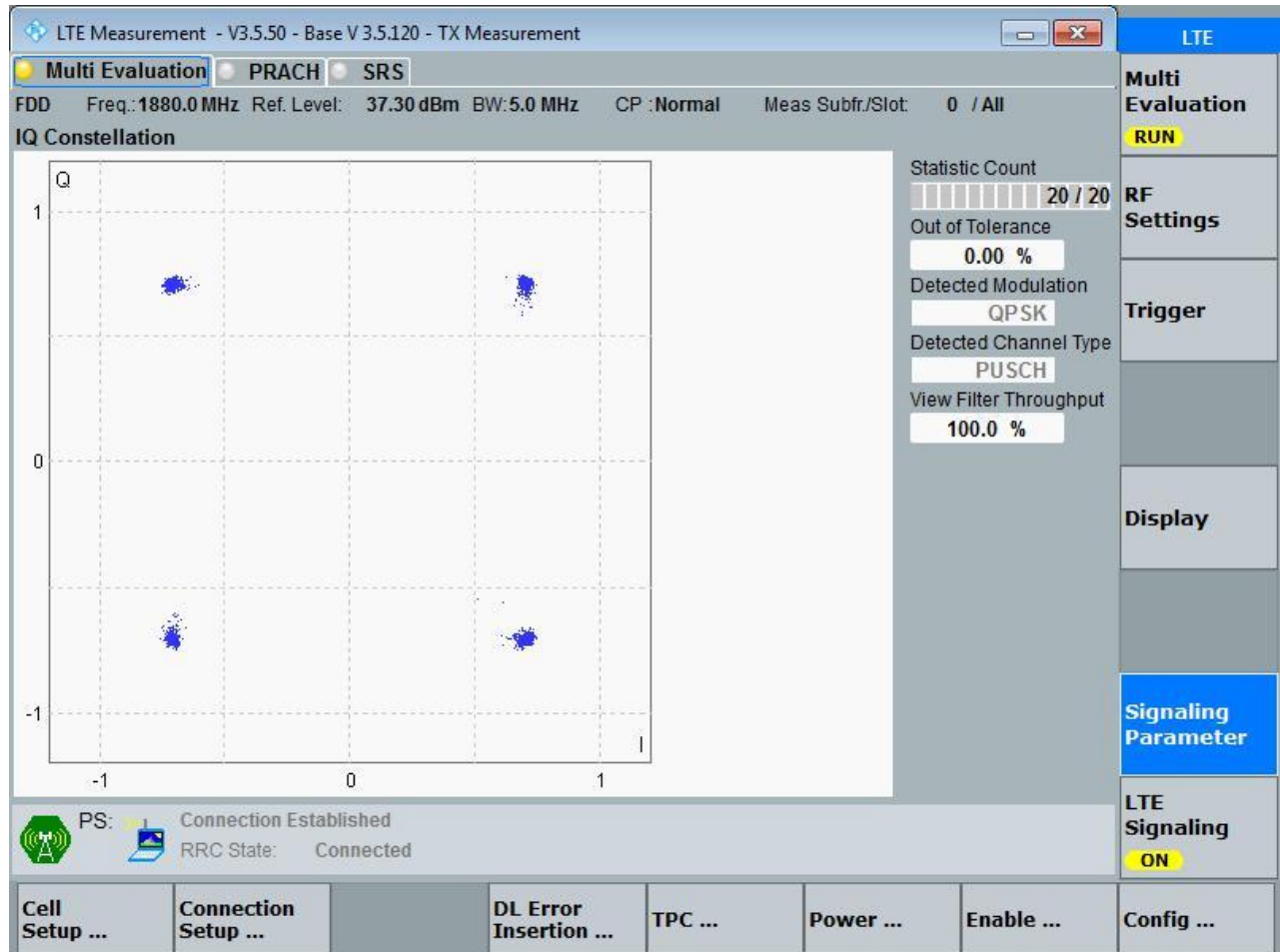






3.1.1.3 Test Mode = LTE /TM1 5MHz

3.1.1.3.1 Test Channel = MCH

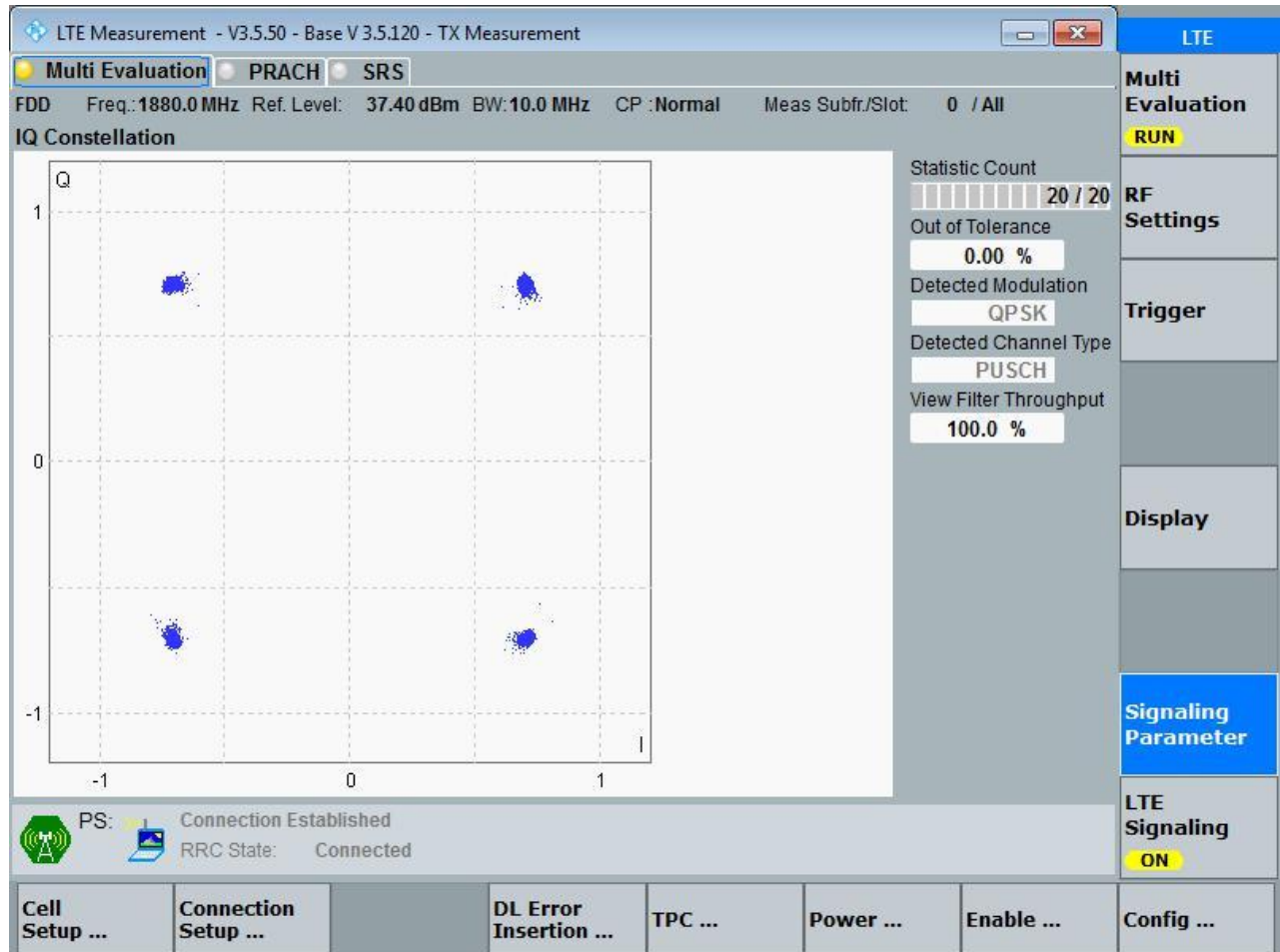






3.1.1.4 Test Mode = LTE /TM1 10MHz

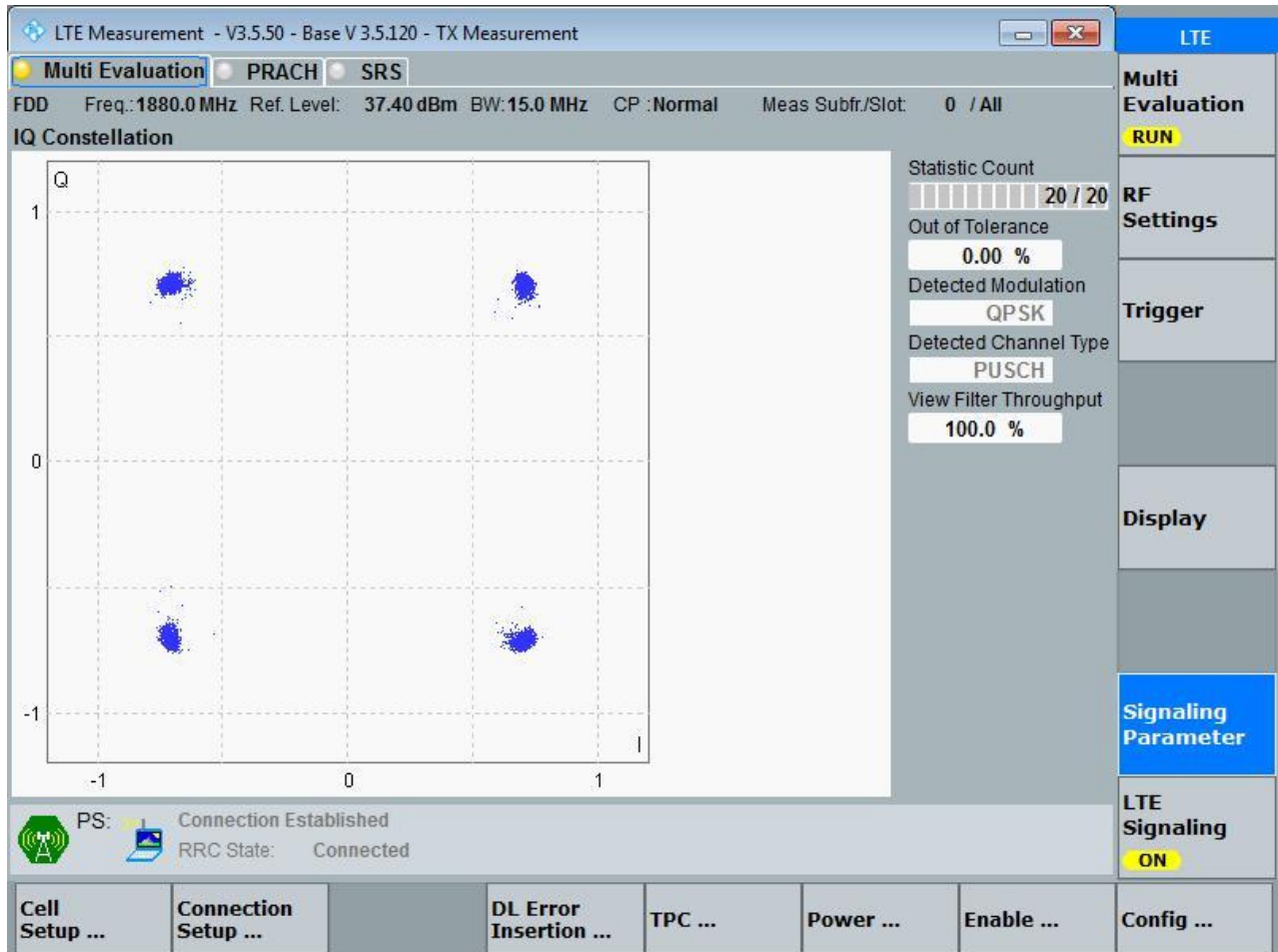
3.1.1.4.1 Test Channel = MCH





**3.1.1.5 Test Mode = LTE /TM1 15MHz**

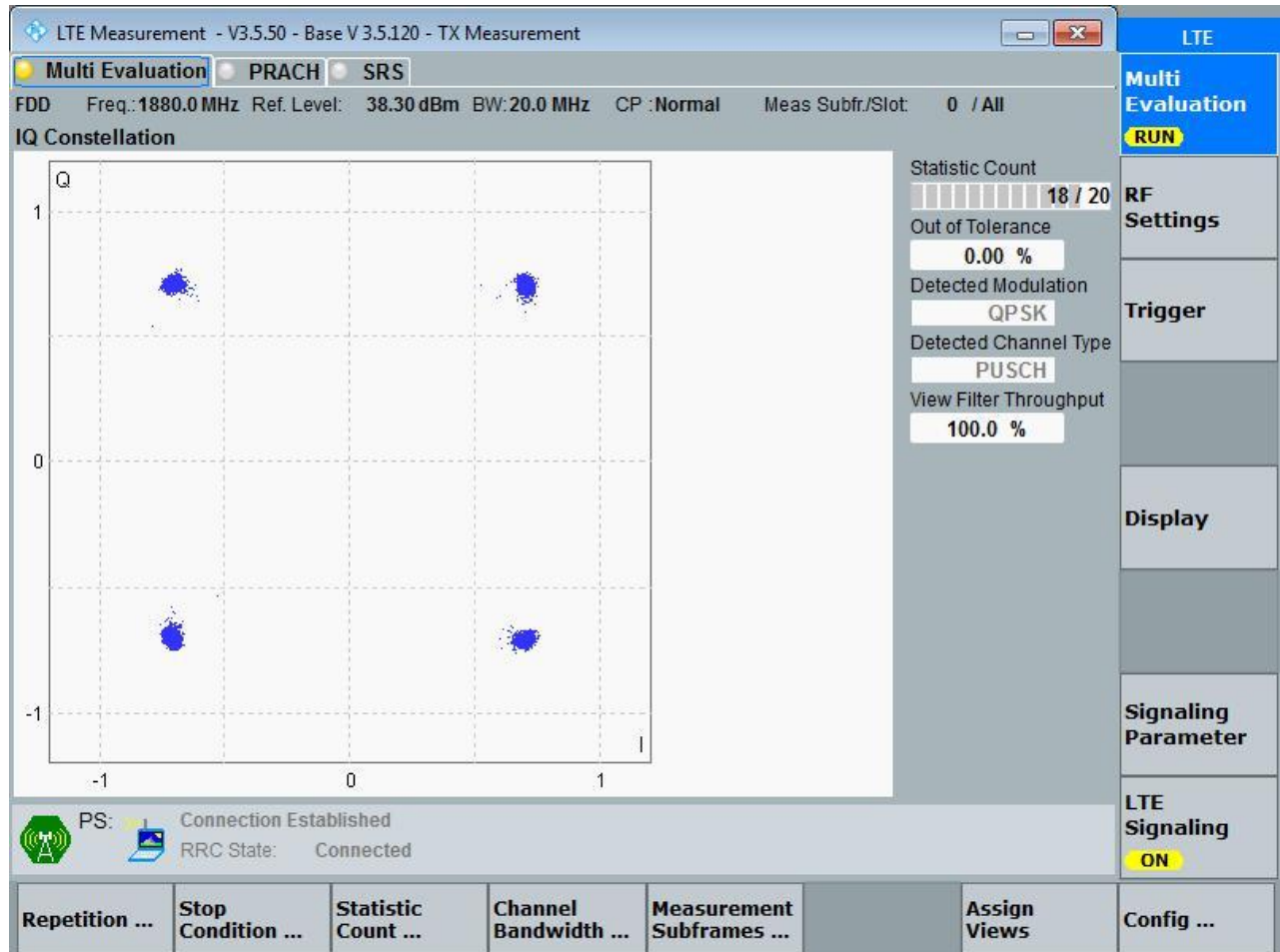
**3.1.1.5.1 Test Channel = MCH**





**3.1.1.6 Test Mode = LTE /TM1 20MHz**

**3.1.1.6.1 Test Channel = MCH**





3.1.1.7 Test Mode = LTE /TM2 1.4MHz  
3.1.1.7.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - V3.5.50 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The status bar shows "FDD Freq.: 1880.0 MHz Ref. Level: 38.40 dBm BW: 1.4 MHz CP: Normal Meas Subfr./Slot: 0 / All". The "IQ Constellation" plot shows a 16-QAM constellation with points clustered around the center. The right sidebar contains several sections: "Multi Evaluation" with a "RUN" button, "RF Settings" with "Out of Tolerance" at 0.00%, "Detected Modulation" as 16-QAM, and "Detected Channel Type" as PUSCH; "Trigger" with "View Filter Throughput" at 100.0%; "Display"; "Signaling Parameter"; and "LTE Signaling" with an "ON" indicator. The bottom status bar shows "PS: Connection Established" and "RRC State: Connected". The bottom navigation bar includes buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".



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 - V3.5.50 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The status bar shows "FDD Freq.: 1880.0 MHz Ref. Level: 37.40 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 0 / All".

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

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

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

The bottom of the interface has a row of buttons: "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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





**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. The main window is titled "LTE Measurement - V3.5.50 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and shows the following parameters: FDD, Freq.: 1880.0 MHz, Ref. Level: 37.30 dBm, BW: 5.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a 16-QAM signal with points clustered in a 4x4 grid. The right sidebar contains several sections: "Multi Evaluation" with a "RUN" button, "RF Settings" with "Out of Tolerance" at 0.00%, "Detected Modulation" as 16-QAM, and "Detected Channel Type" as PUSCH; "Trigger" with "View Filter Throughput" at 100.0%; "Display"; "Signaling Parameter" (highlighted in blue); and "LTE Signaling" with "ON" (highlighted in yellow). The bottom status bar shows "PS: Connection Established" and "RRC State: Connected". A bottom toolbar includes buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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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 - V3.5.50 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The status bar shows "FDD Freq.: 1880.0 MHz Ref. Level: 37.40 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All".

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

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

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

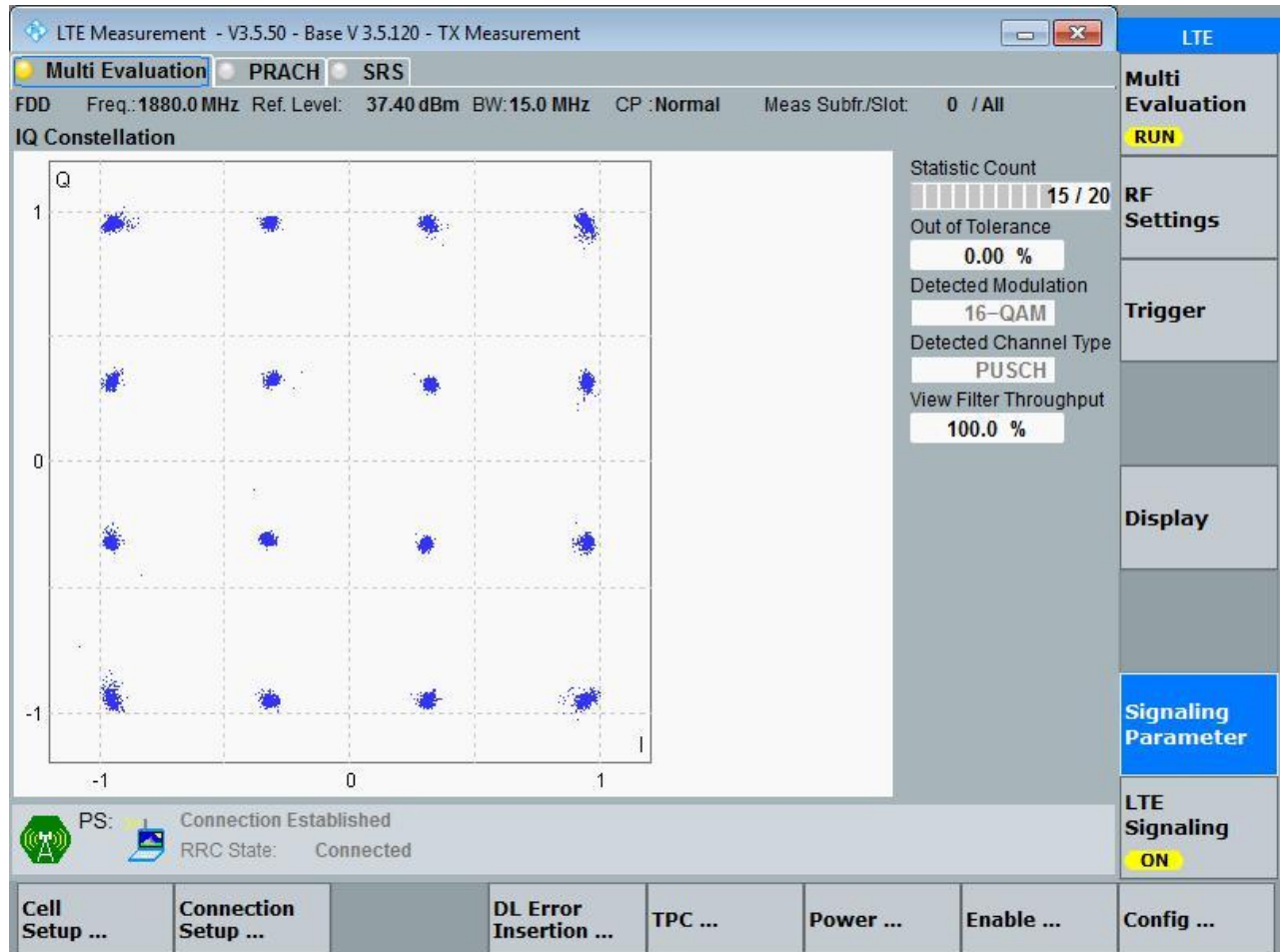
The bottom of the interface has a navigation bar with buttons for "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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



3.1.1.11 Test Mode = LTE /TM2 15MHz

3.1.1.11.1 Test Channel = MCH







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 - V3.5.50 - Base V 3.5.120 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" radio button. The status bar shows "FDD Freq.: 1880.0 MHz Ref. Level: 38.30 dBm BW: 20.0 MHz CP: Normal Meas Subfr./Slot: 0 / All".

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

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

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

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

On the far right, there is a vertical sidebar with several tabs: "LTE", "Multi Evaluation", "RF Settings", "Trigger", "Display", "Signaling Parameter", and "LTE Signaling". The "Multi Evaluation" tab is active, and the "RUN" button is highlighted in yellow. The "LTE Signaling" tab is also active, and the "ON" button is highlighted in yellow.



## 4 Bandwidth

### Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 2	TM1/1.4MHz	LCH	1.10	1.29	PASS
		MCH	1.09	1.27	PASS
		HCH	1.10	1.27	PASS
	TM2/1.4MHz	LCH	1.09	1.27	PASS
		MCH	1.10	1.28	PASS
		HCH	1.10	1.28	PASS
	TM1/ 3MHz	LCH	2.69	2.91	PASS
		MCH	2.69	2.91	PASS
		HCH	2.69	2.92	PASS
	TM2/3MHz	LCH	2.69	2.92	PASS
		MCH	2.69	2.93	PASS
		HCH	2.69	2.92	PASS
	TM1/ 5MHz	LCH	4.50	4.99	PASS
		MCH	4.49	4.99	PASS
		HCH	4.49	4.99	PASS
	TM2/ 5MHz	LCH	4.49	5.00	PASS
		MCH	4.49	4.93	PASS
		HCH	4.49	4.99	PASS
	TM1/10MHz	LCH	8.91	9.65	PASS
		MCH	8.97	9.83	PASS
		HCH	8.95	9.79	PASS
	TM2/ 10MHz	LCH	8.95	9.69	PASS
		MCH	8.93	9.63	PASS
		HCH	8.95	9.77	PASS
TM1/ 15MHz	LCH	13.46	14.84	PASS	
	MCH	13.52	14.96	PASS	
	HCH	13.52	15.05	PASS	
TM2/ 15MHz	LCH	13.46	14.84	PASS	
	MCH	13.52	14.96	PASS	
	HCH	13.55	14.96	PASS	
TM1/ 20MHz	LCH	17.90	19.38	PASS	
	MCH	17.94	19.42	PASS	
	HCH	18.02	19.70	PASS	

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

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Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
	TM2/ 20MHz	LCH	17.94	19.58	PASS
		MCH	17.94	19.50	PASS
		HCH	18.02	19.70	PASS

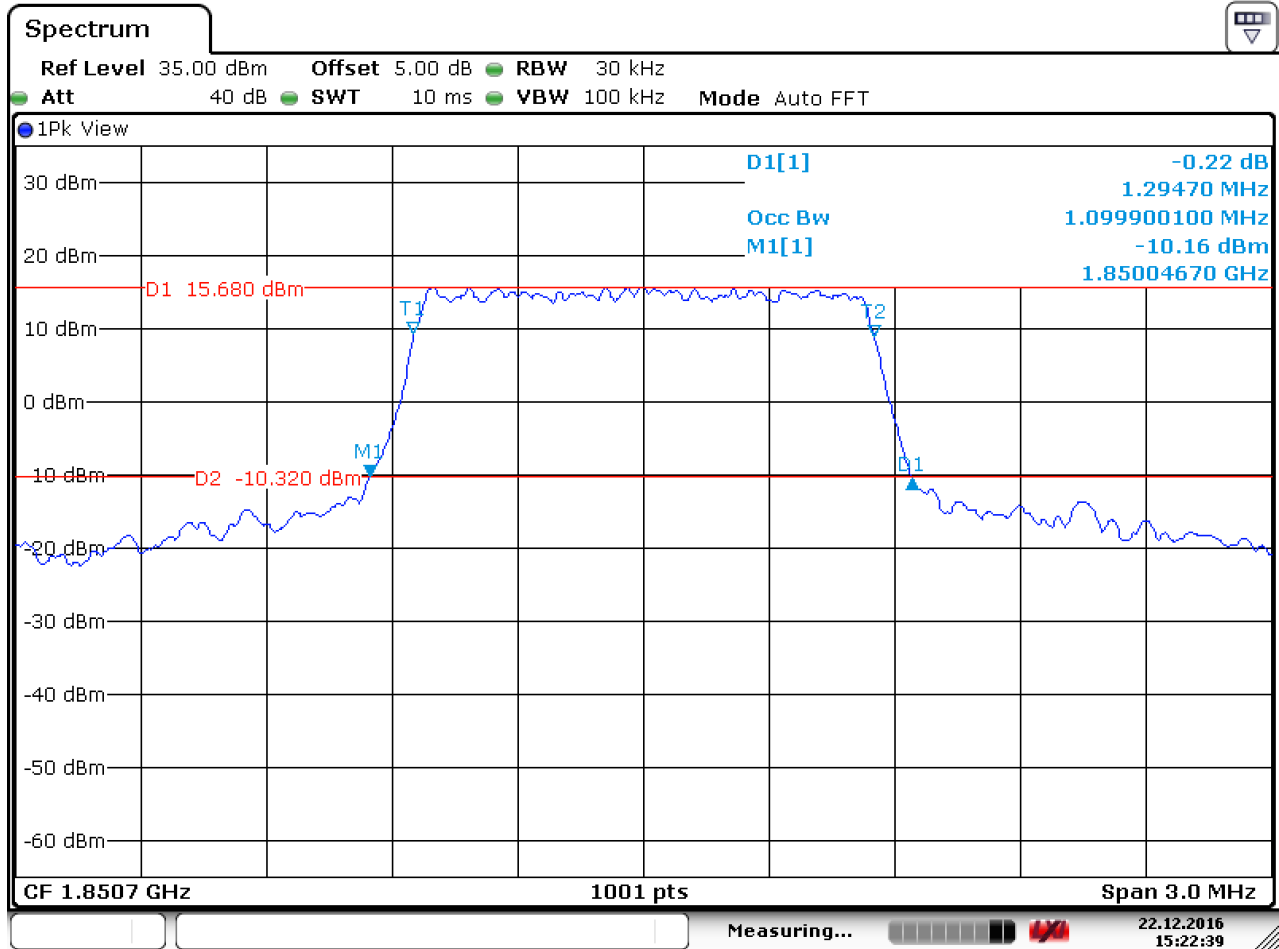
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## 4.1 For LTE

### 4.1.1 Test Band = LTE band2

#### 4.1.1.1 Test Mode = LTE/TM1 1.4MHz

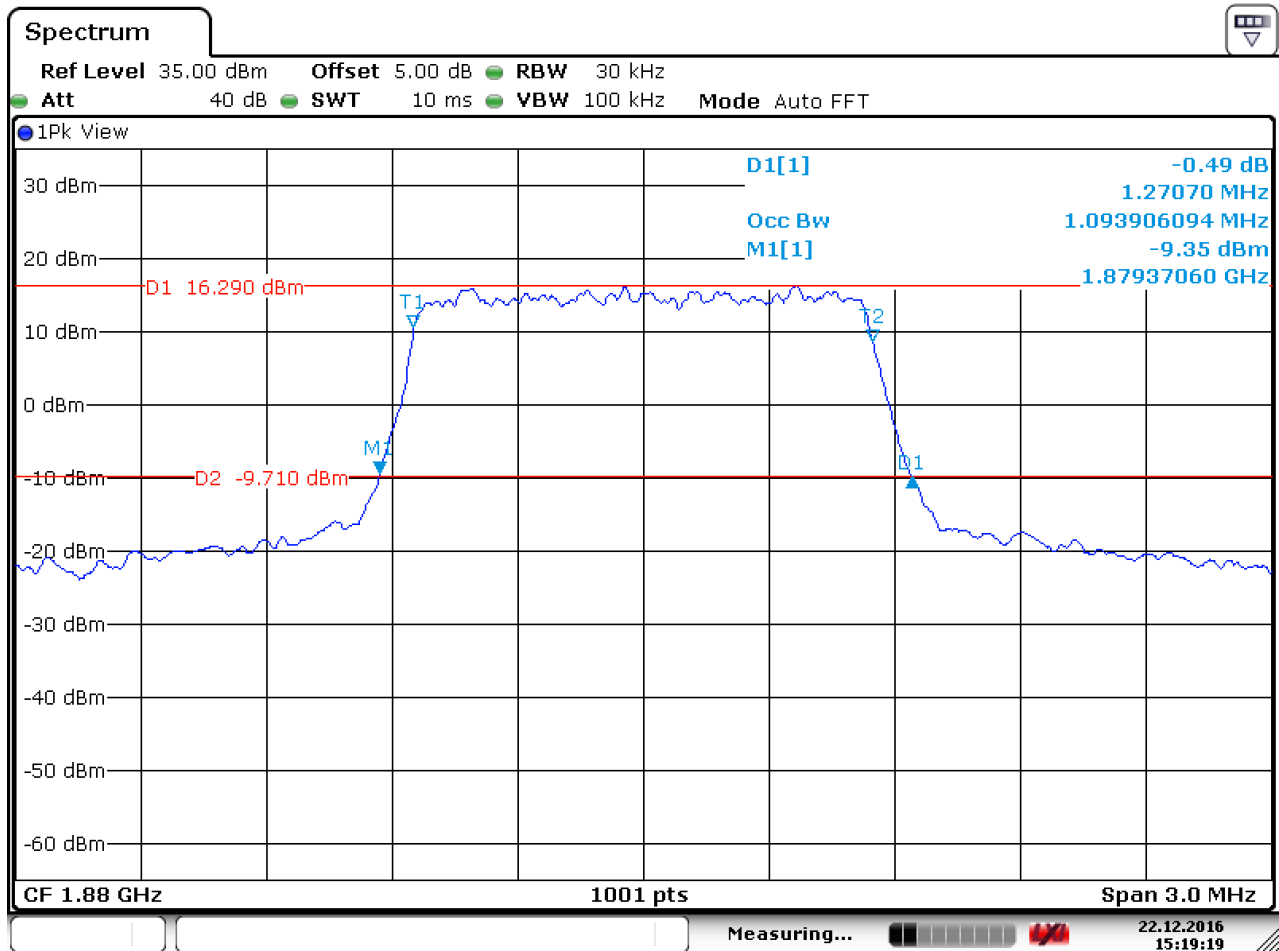
##### 4.1.1.1.1 Test Channel = LCH



Date: 22.DEC.2016 15:22:39



4.1.1.1.2 Test Channel = MCH

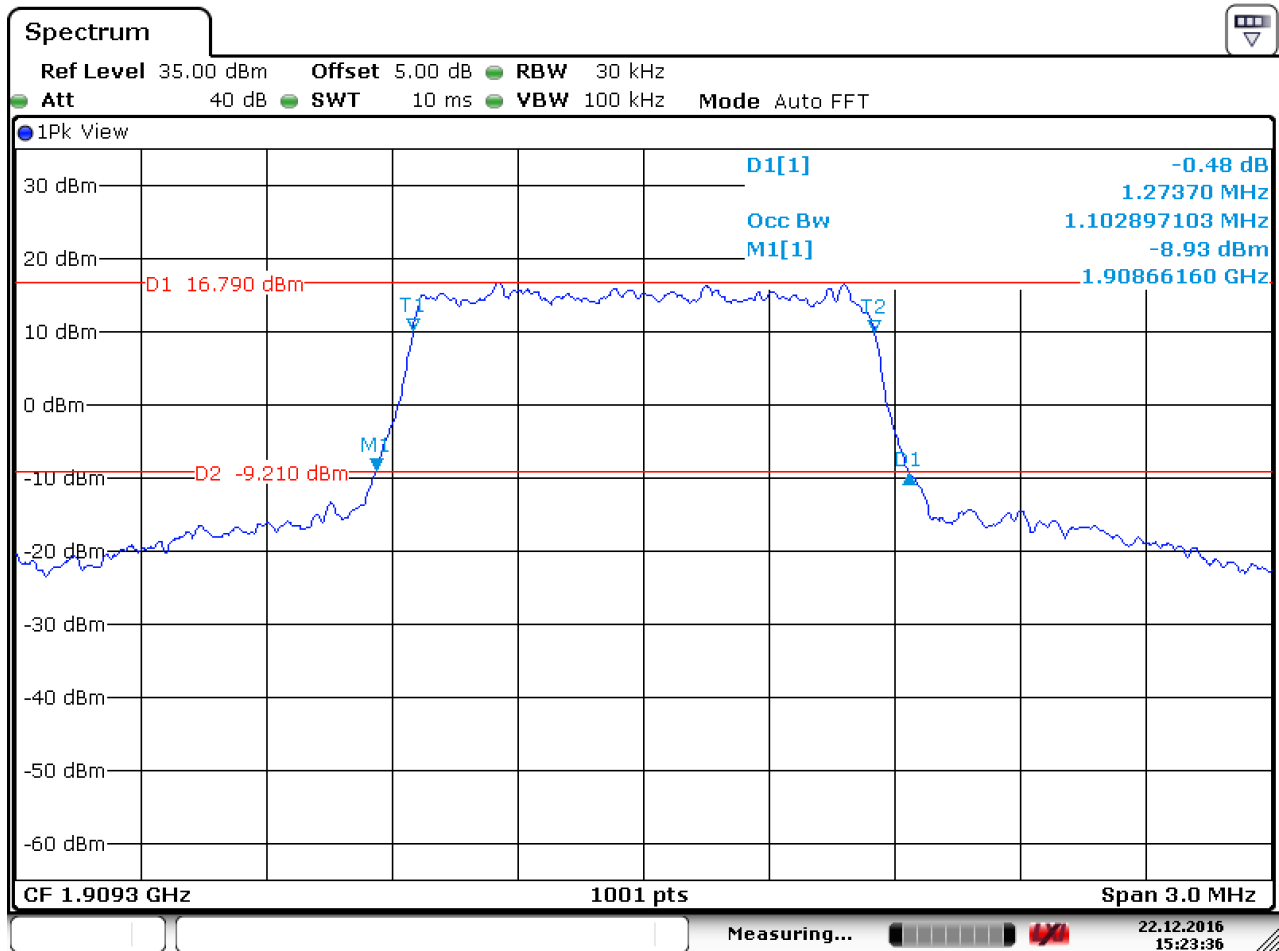


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4.1.1.1.3 Test Channel = HCH



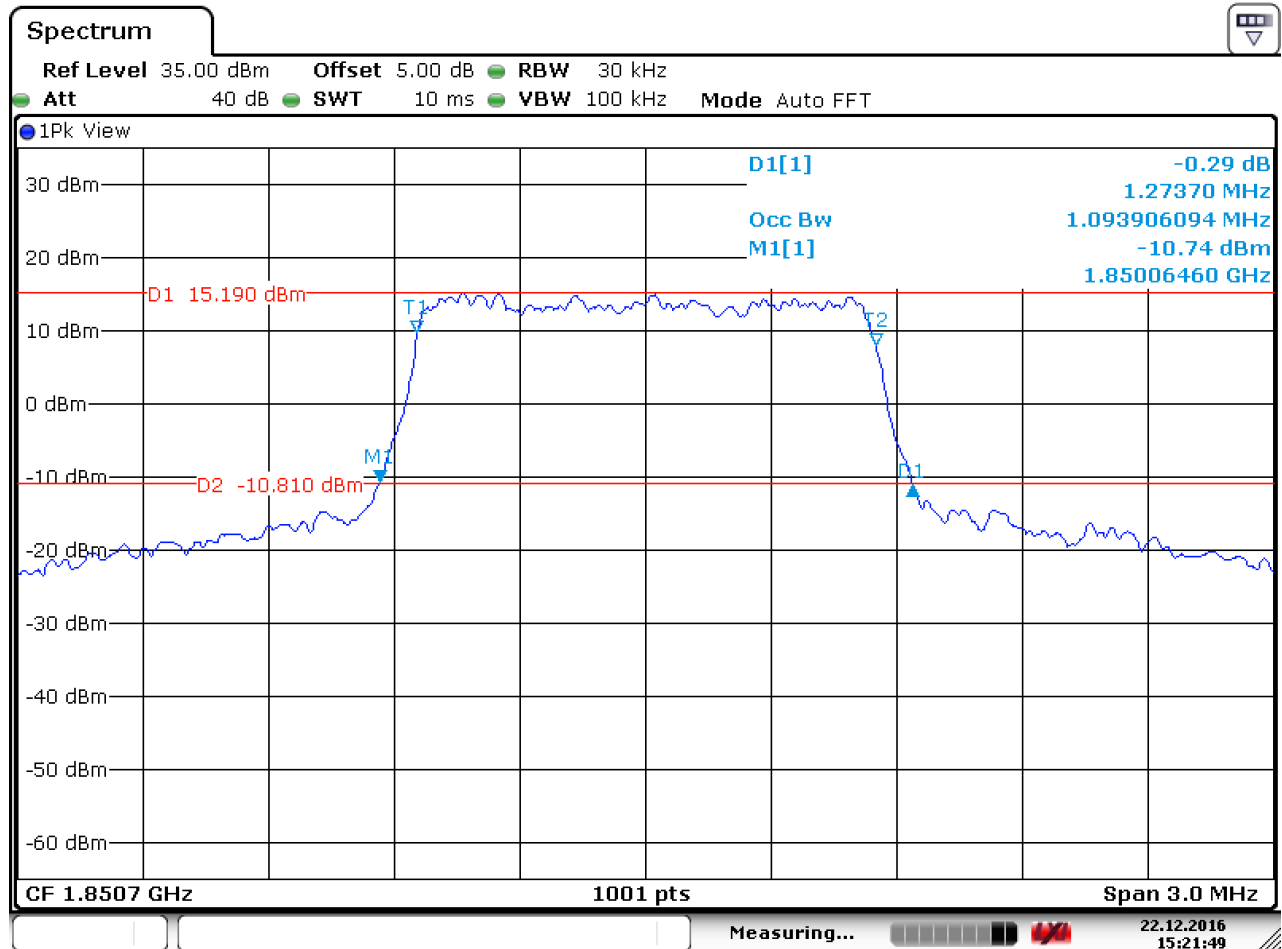
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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

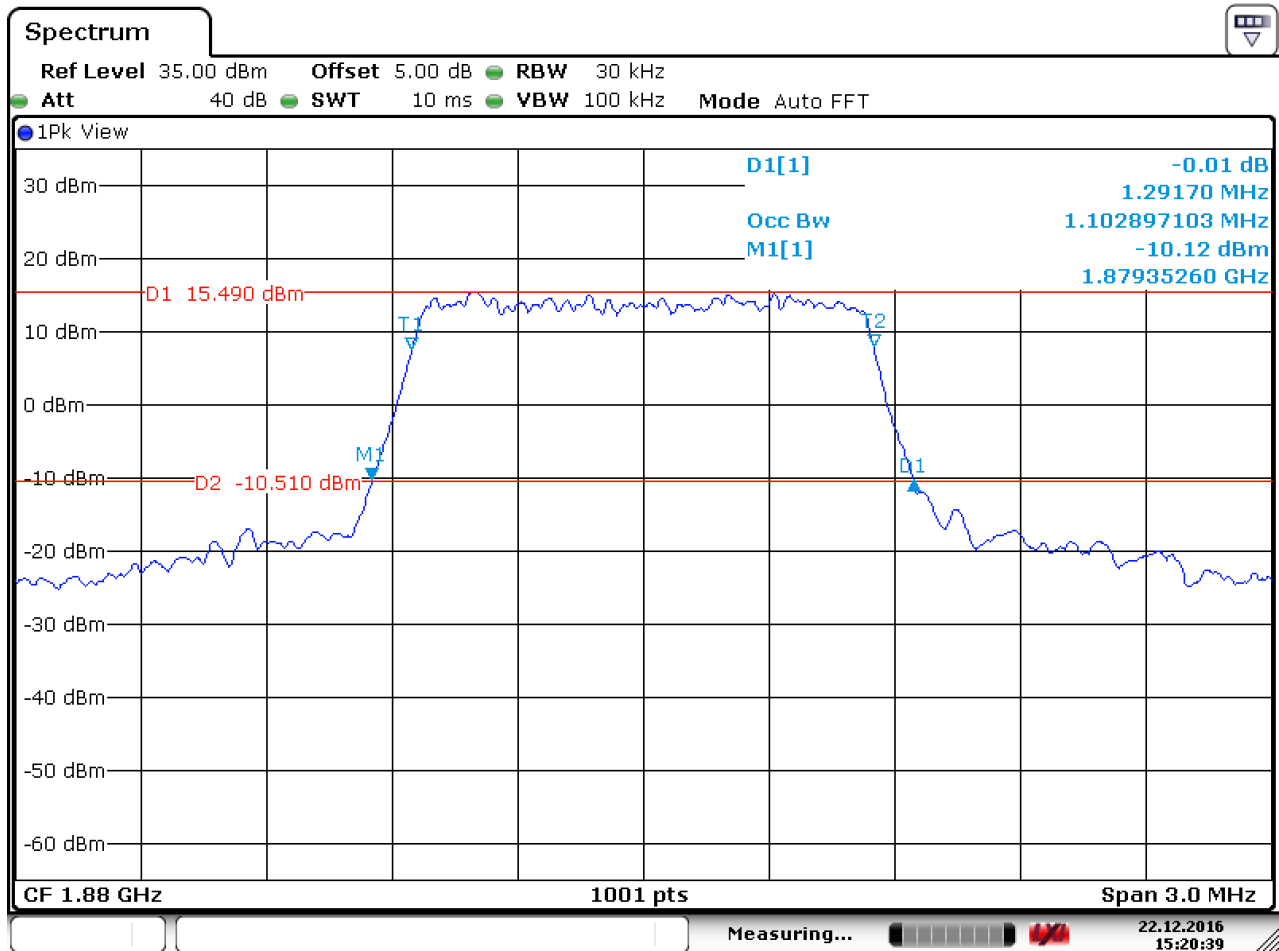
4.1.1.2.1 Test Channel = LCH



Date: 22.DEC.2016 15:21:50



4.1.1.2.2 Test Channel = MCH



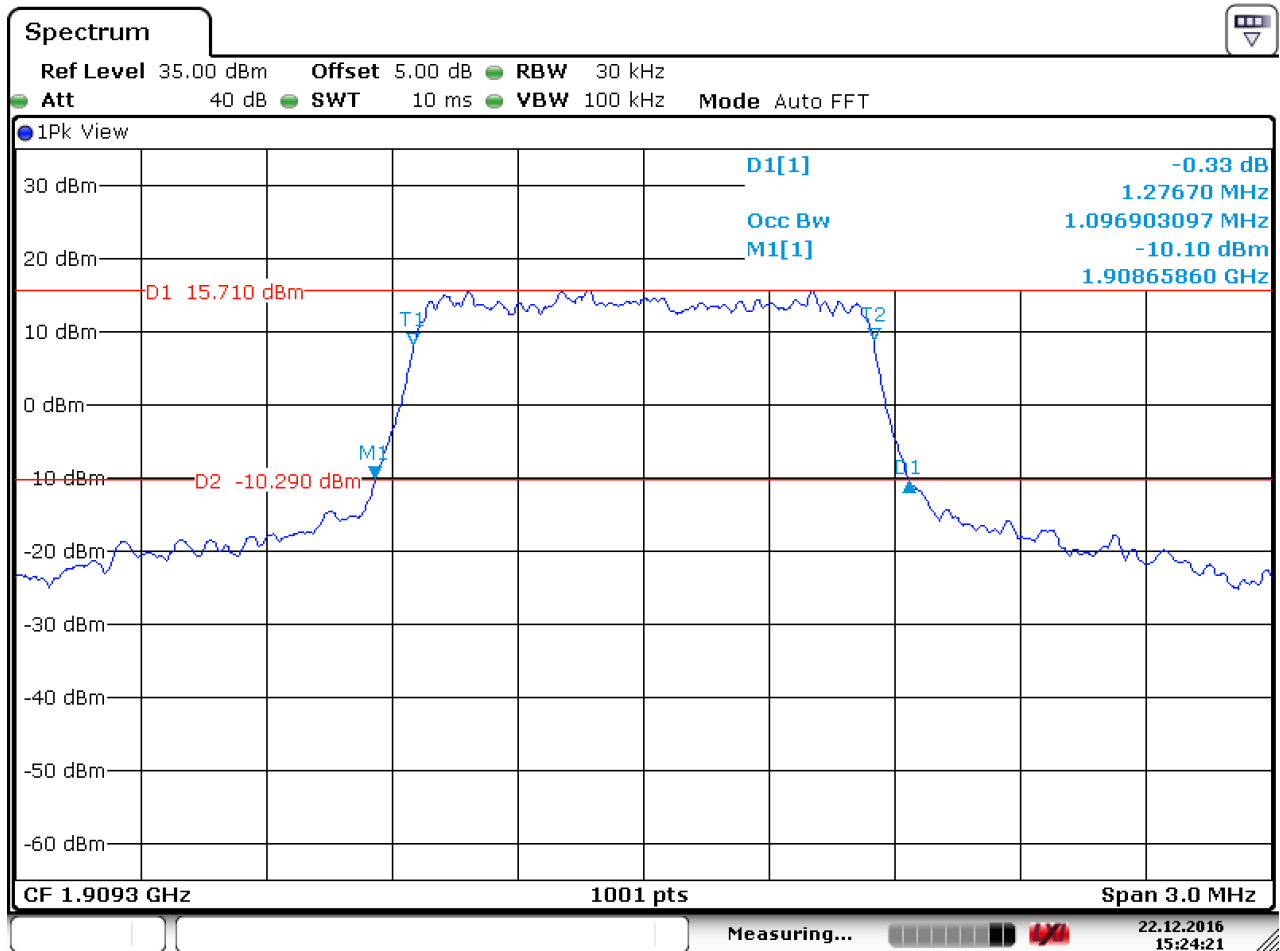
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4.1.1.2.3 Test Channel = HCH



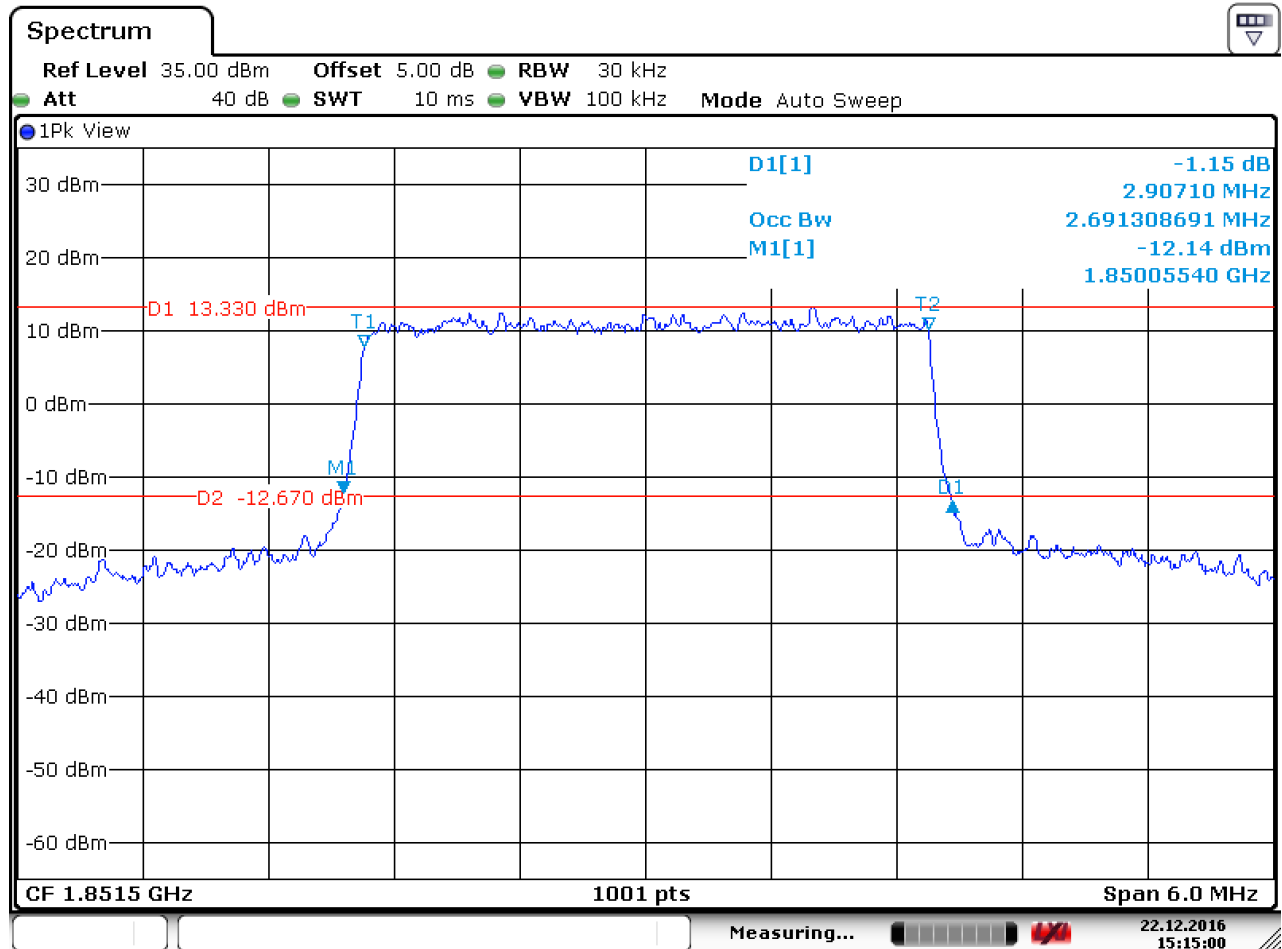
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4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH

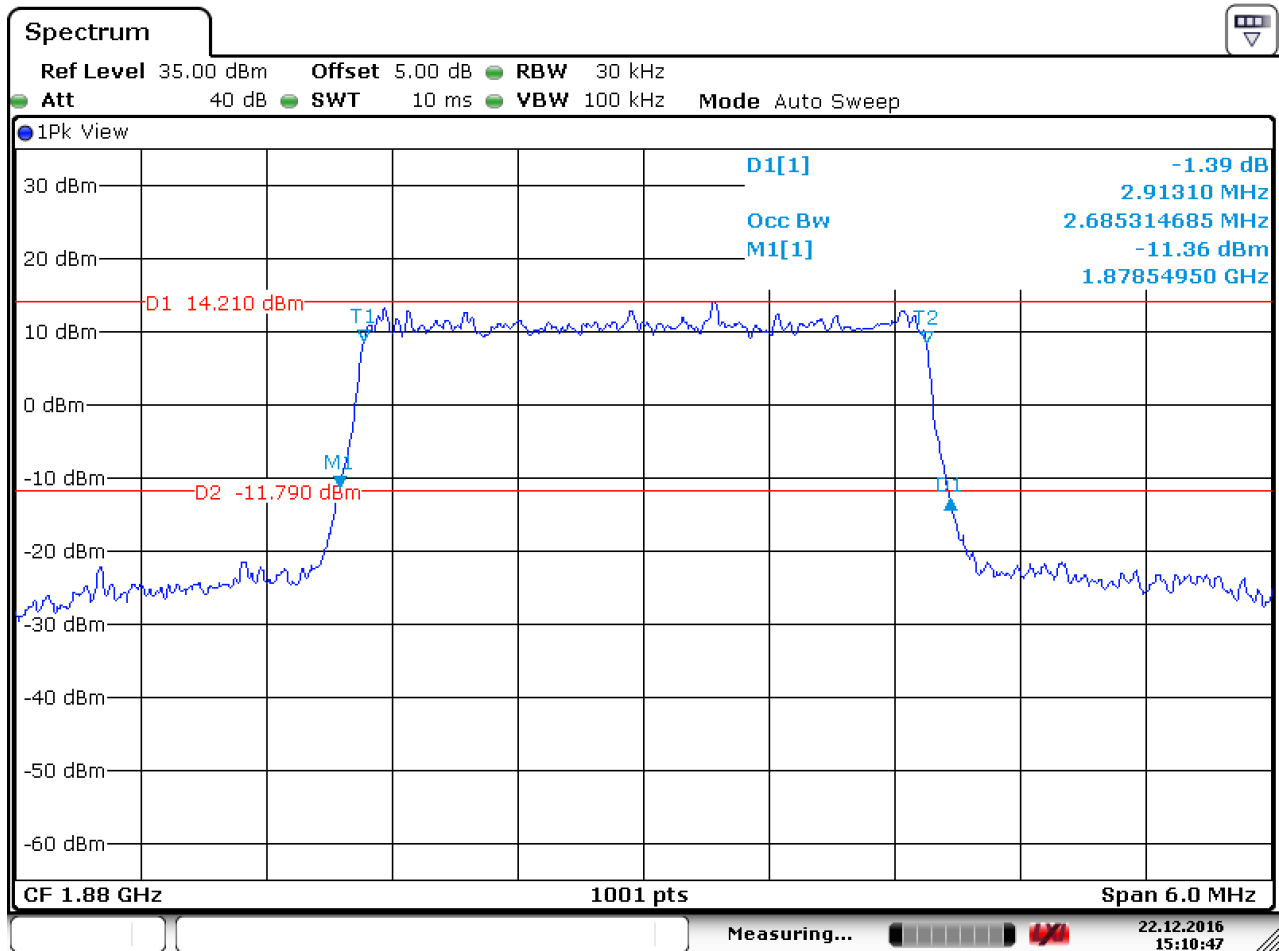


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4.1.1.3.2 Test Channel = MCH

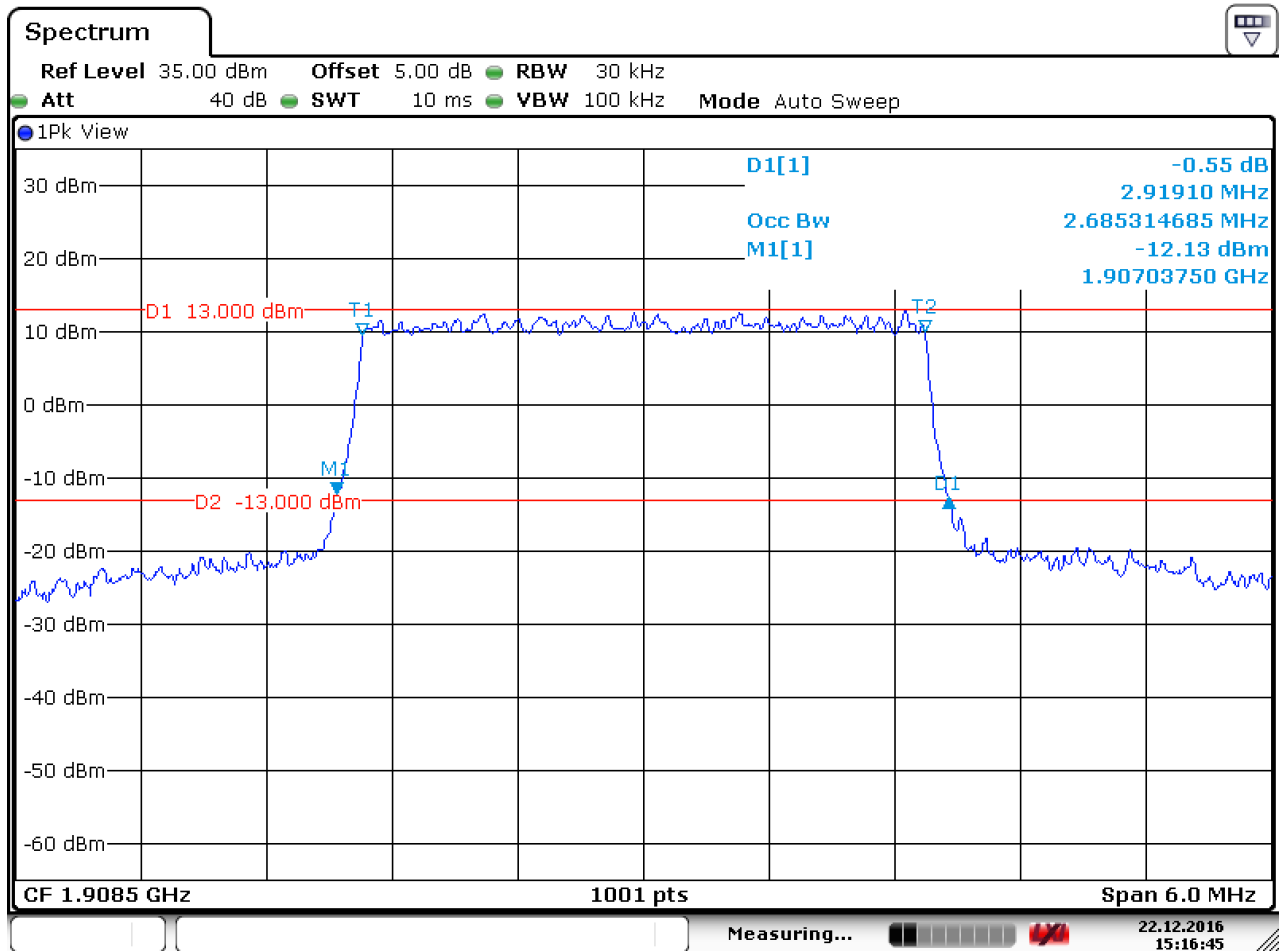


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4.1.1.3.3 Test Channel = HCH



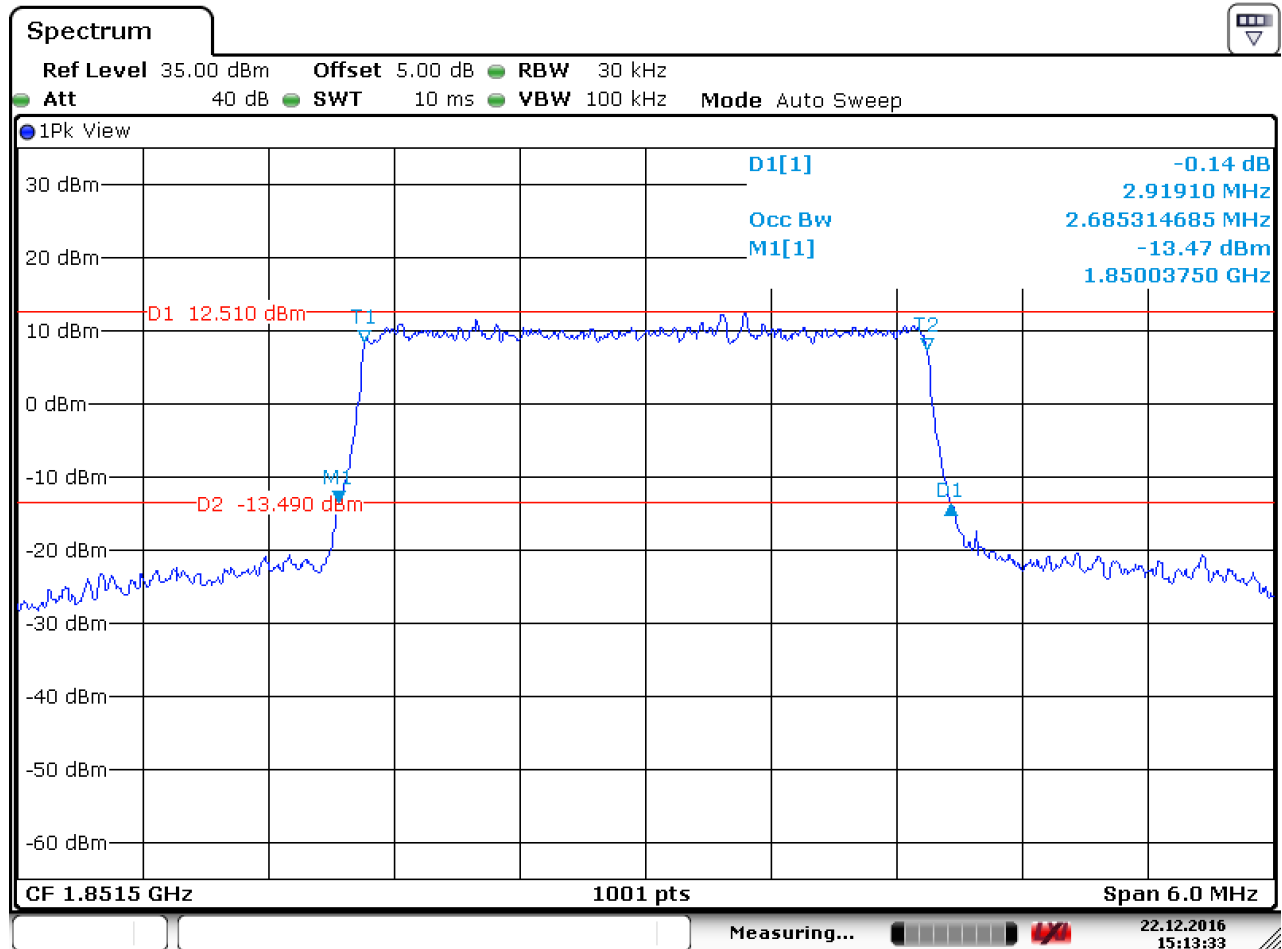
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4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH

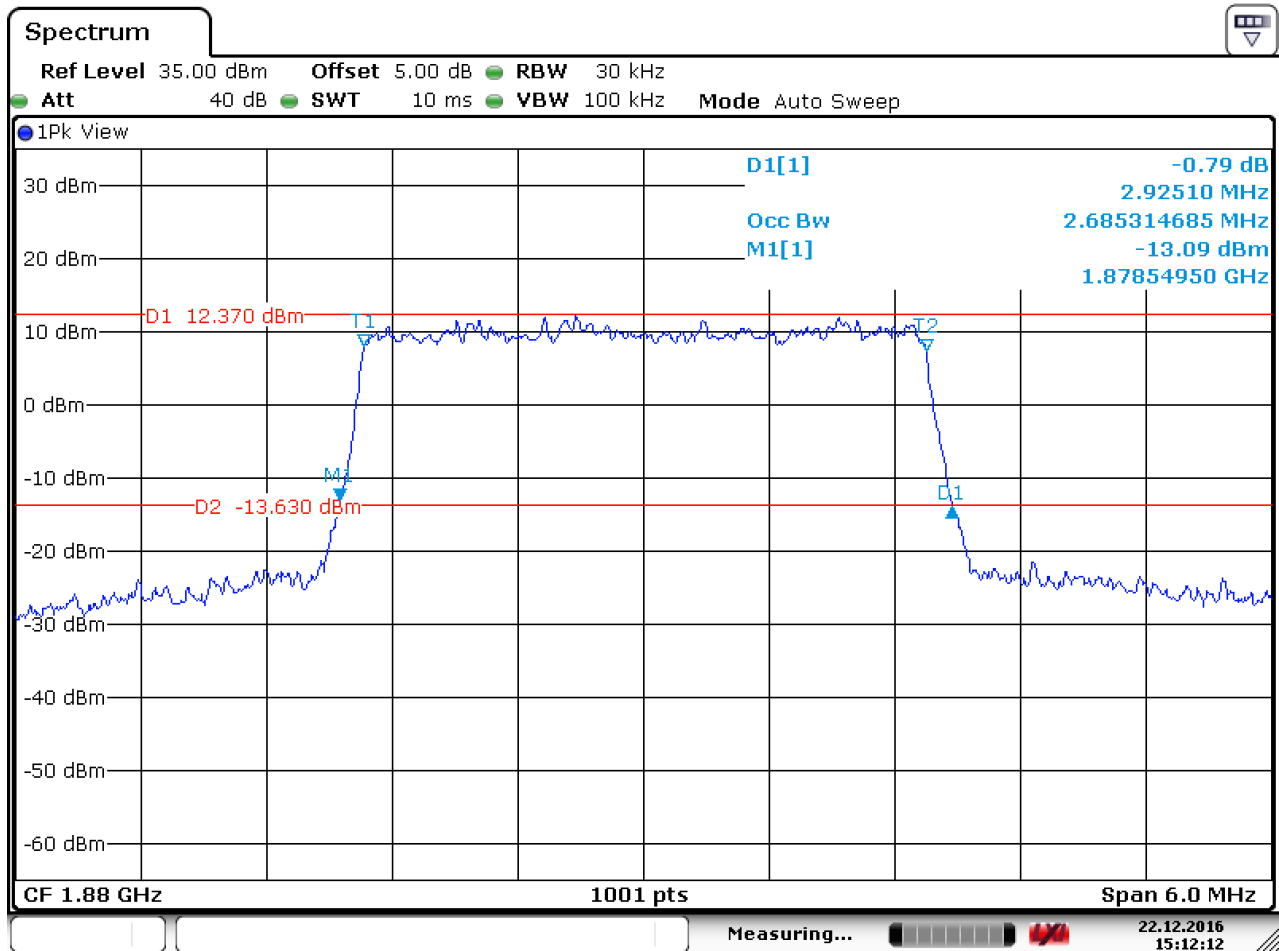


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4.1.1.4.2 Test Channel = MCH

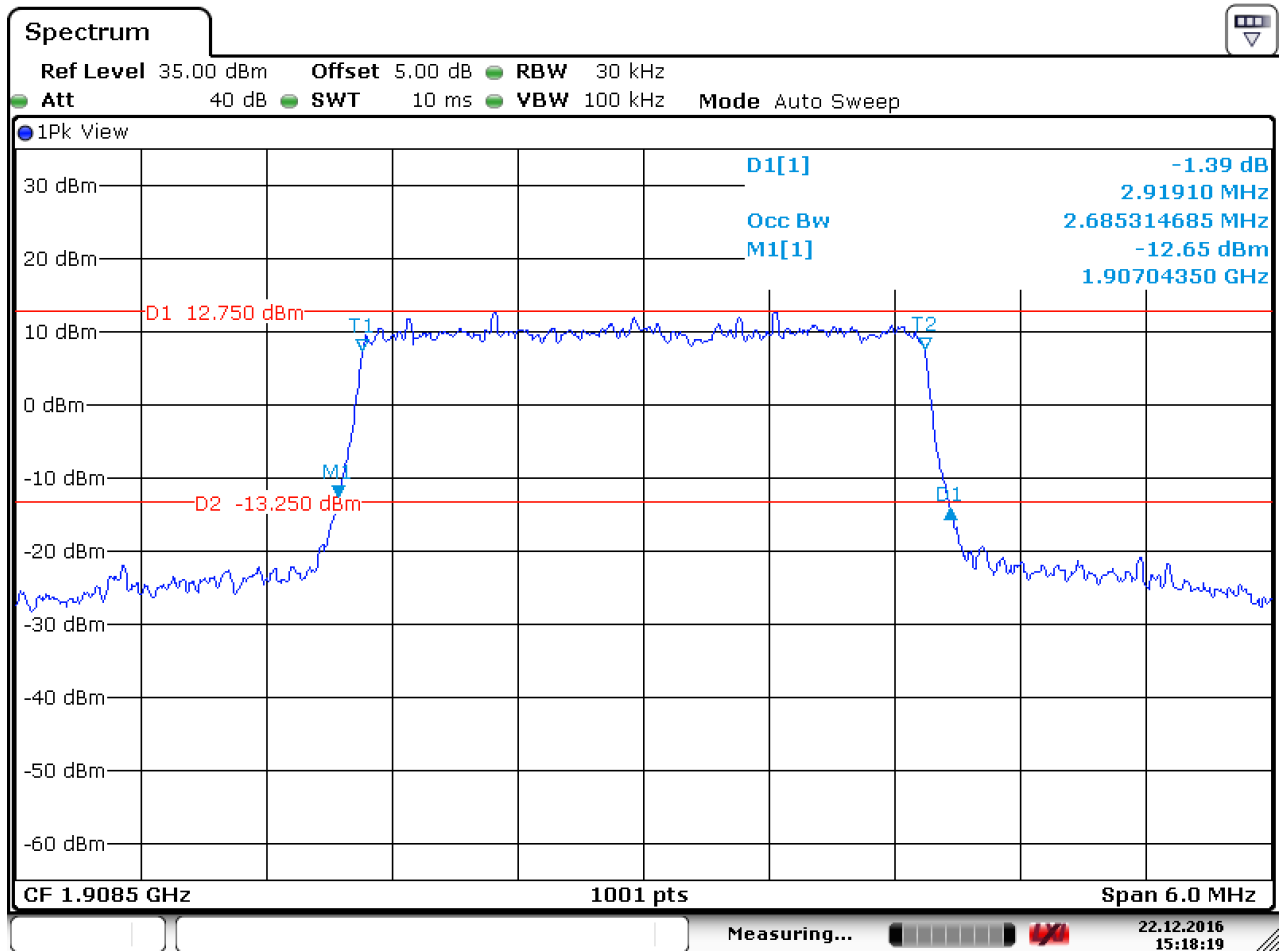


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4.1.1.4.3 Test Channel = HCH



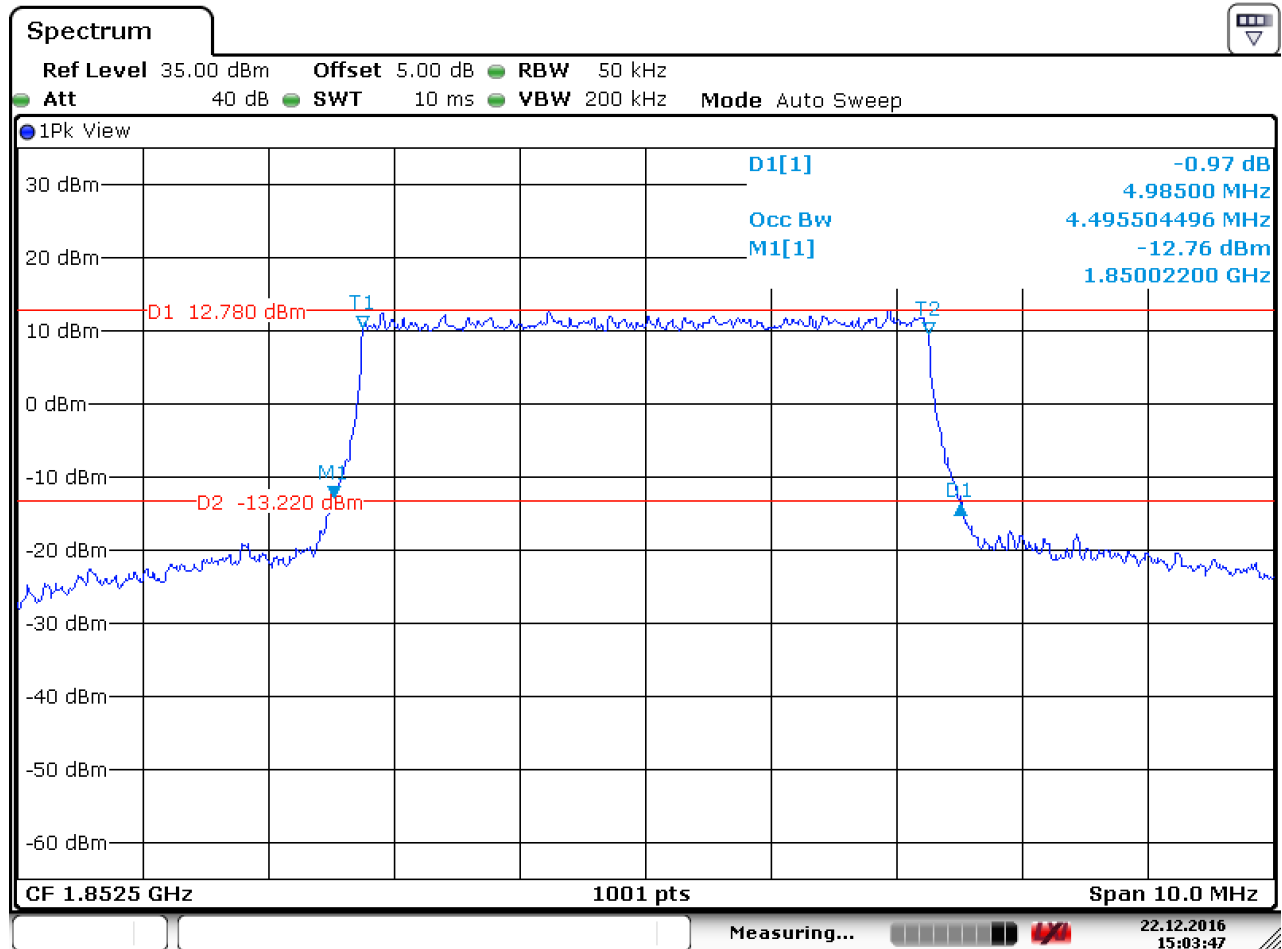
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4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH



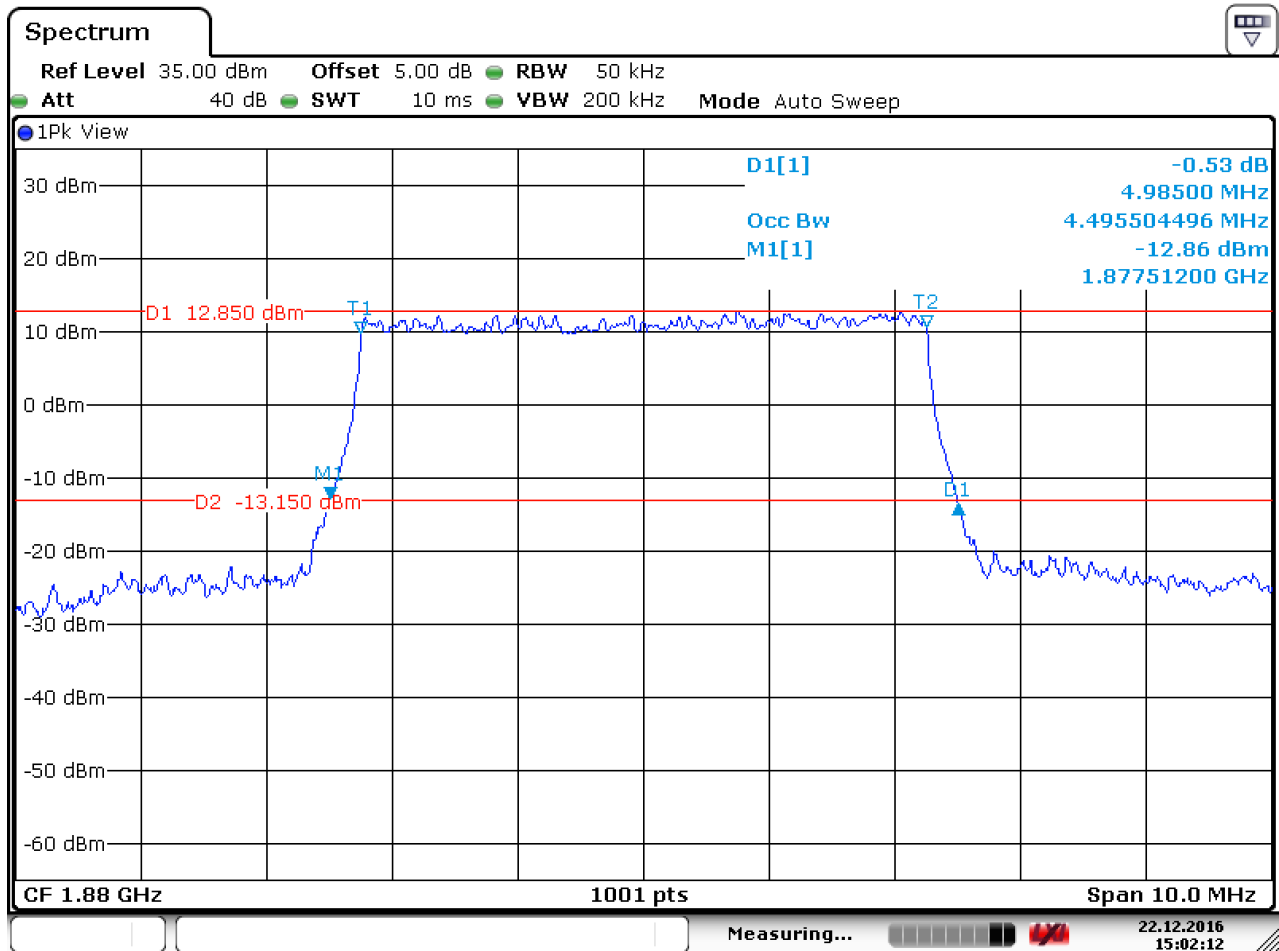
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4.1.1.5.2 Test Channel = MCH

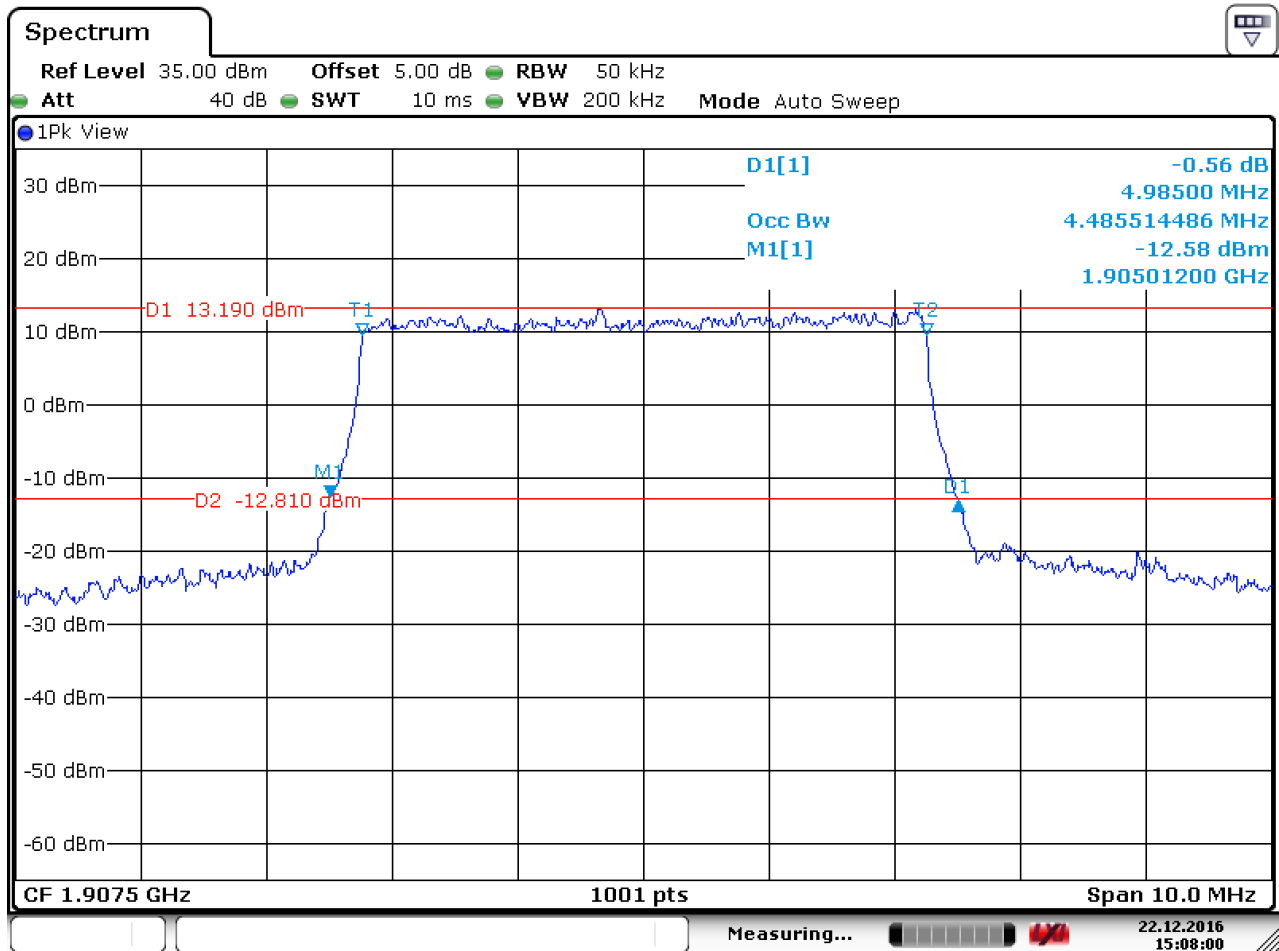


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4.1.1.5.3 Test Channel = HCH



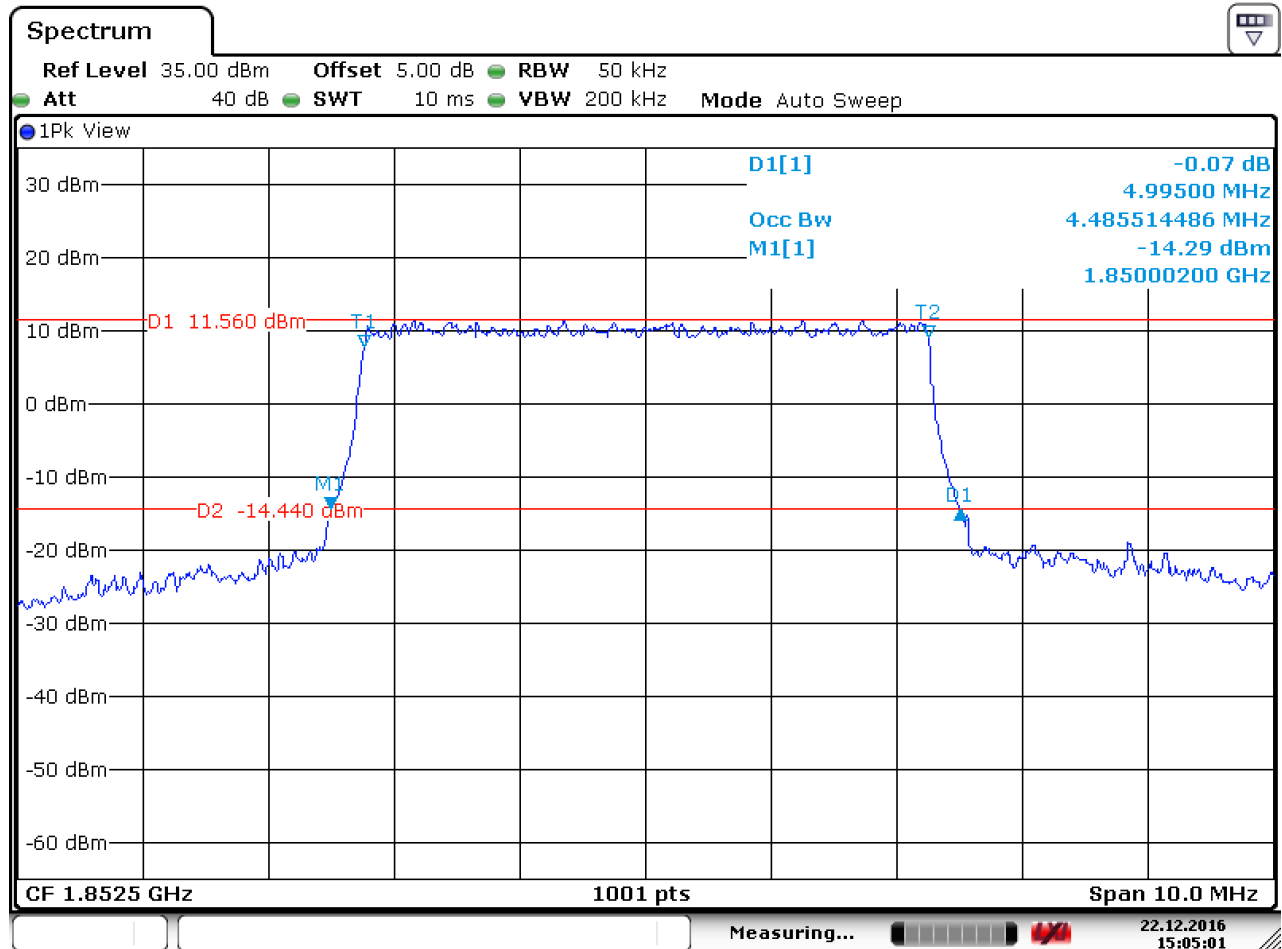
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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH

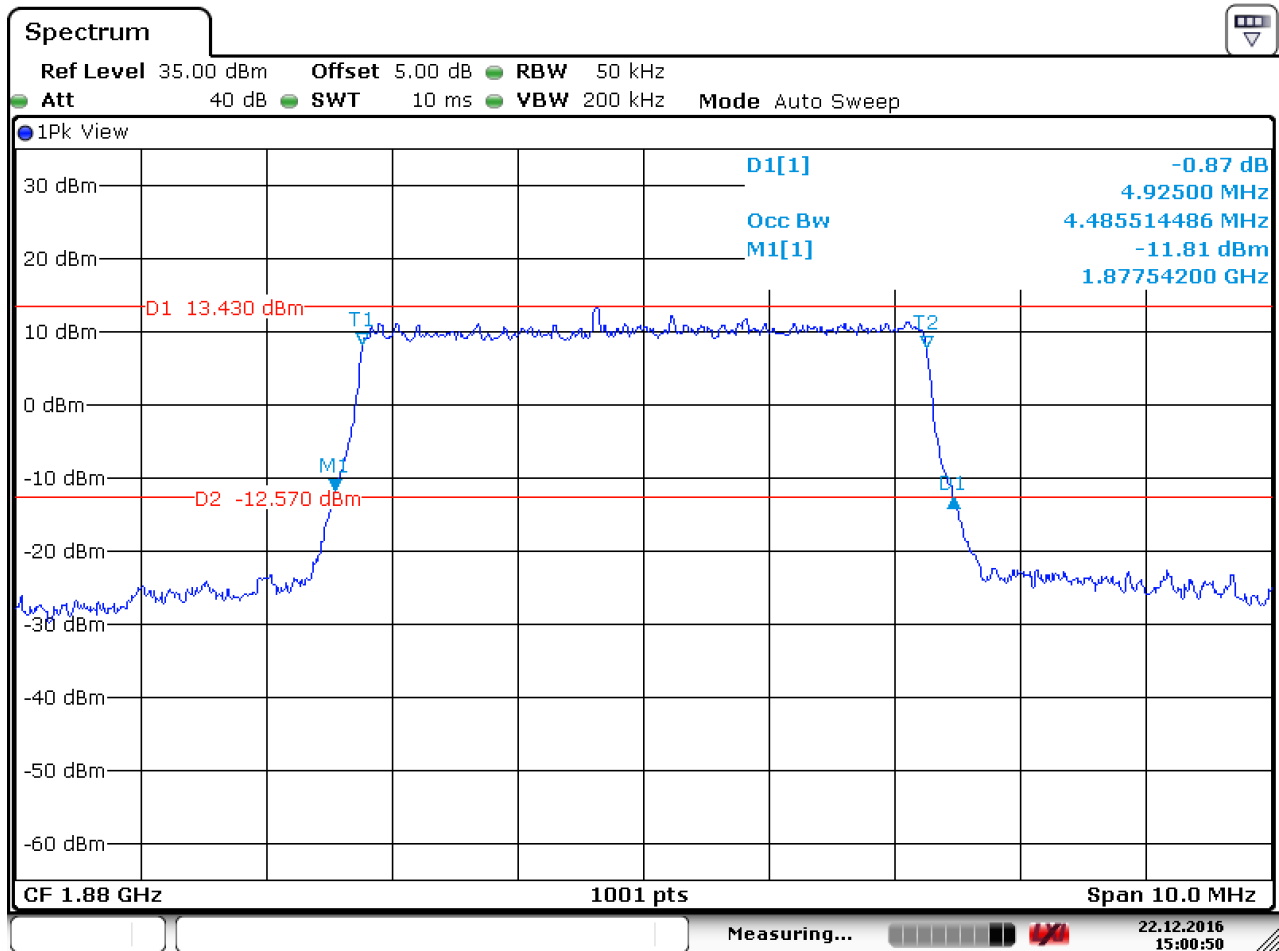


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4.1.1.6.2 Test Channel = MCH

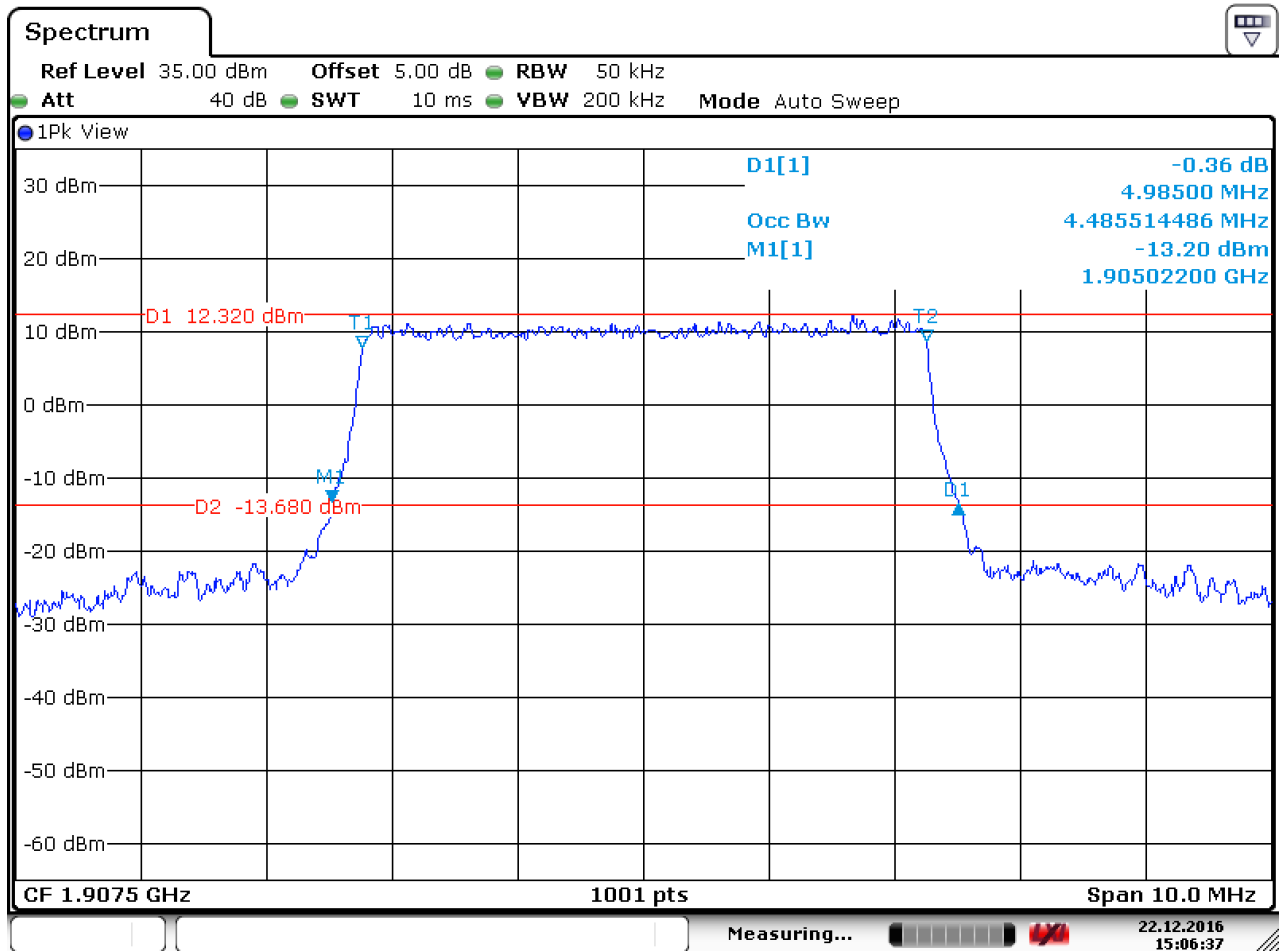


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4.1.1.6.3 Test Channel = HCH



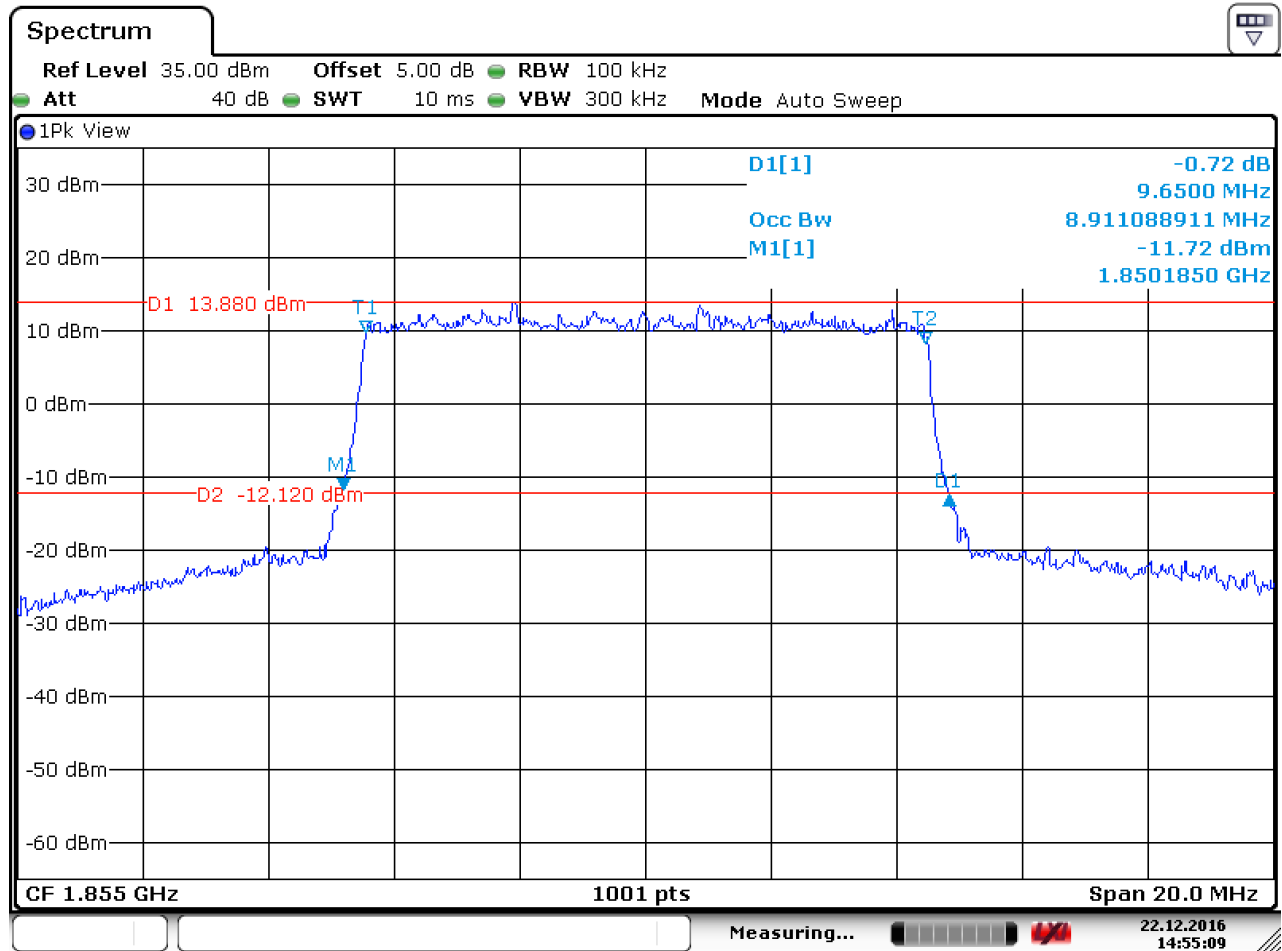
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4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH

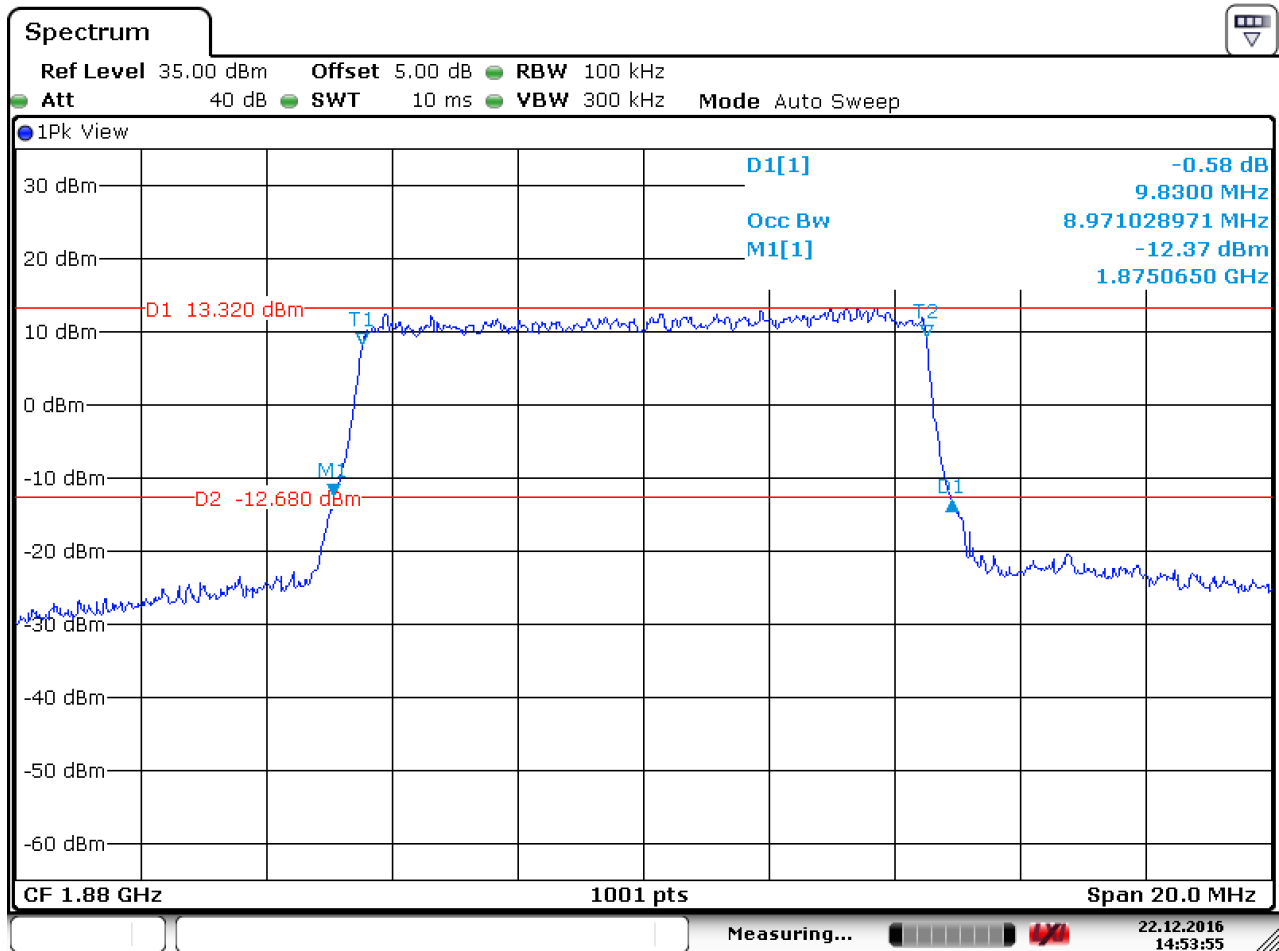


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4.1.1.7.2 Test Channel = MCH

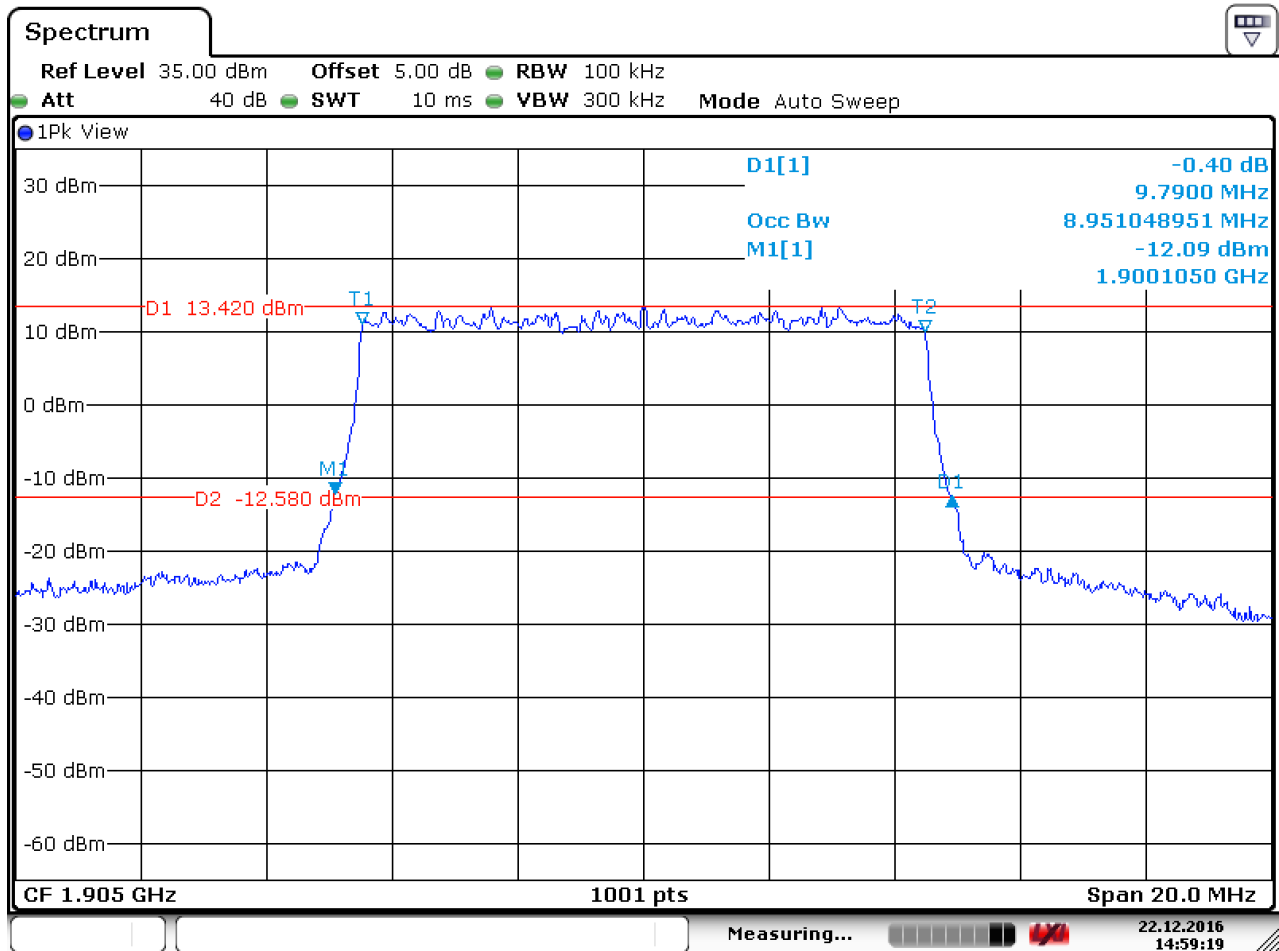


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4.1.1.7.3 Test Channel = HCH



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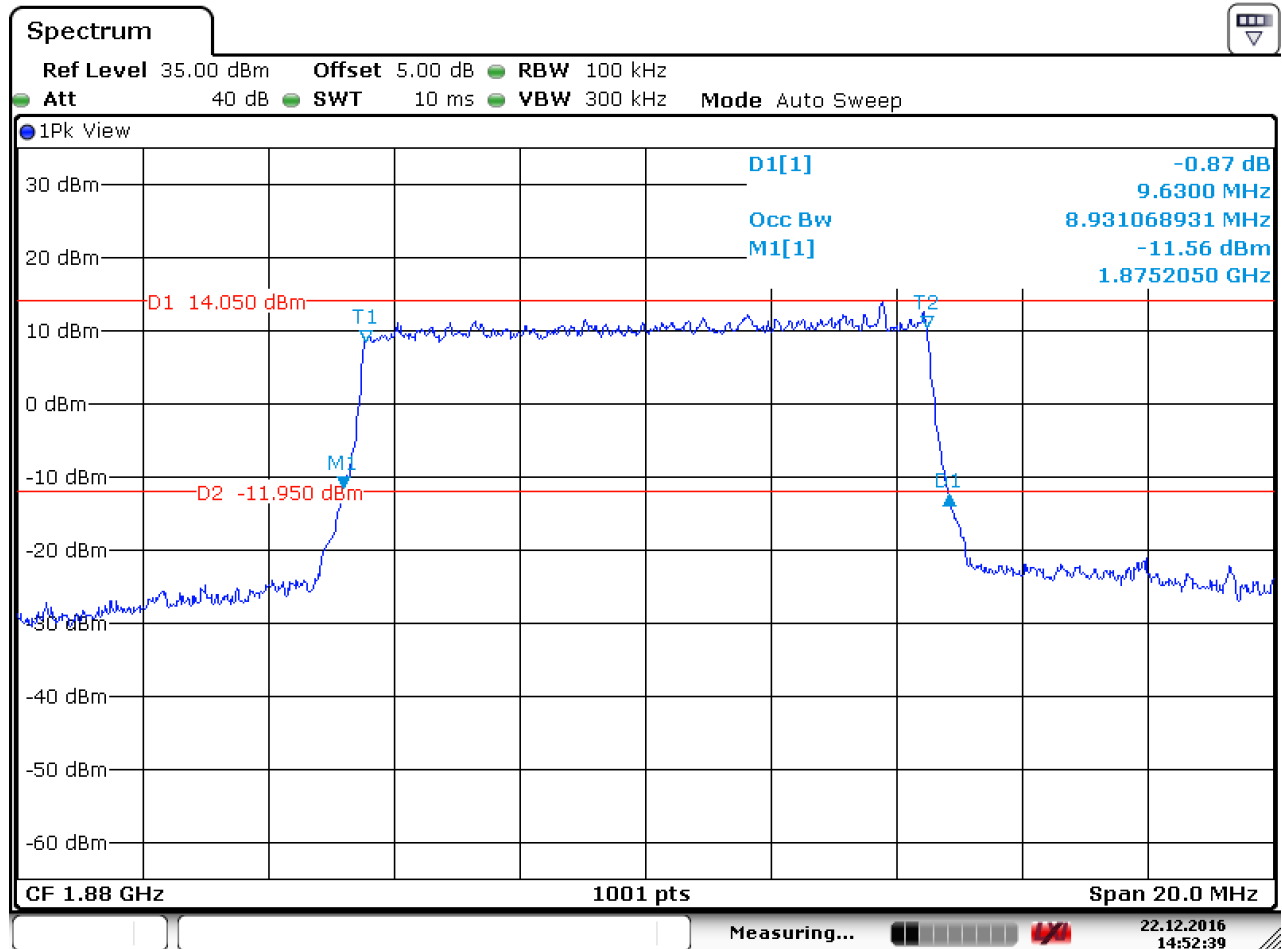
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4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = LCH

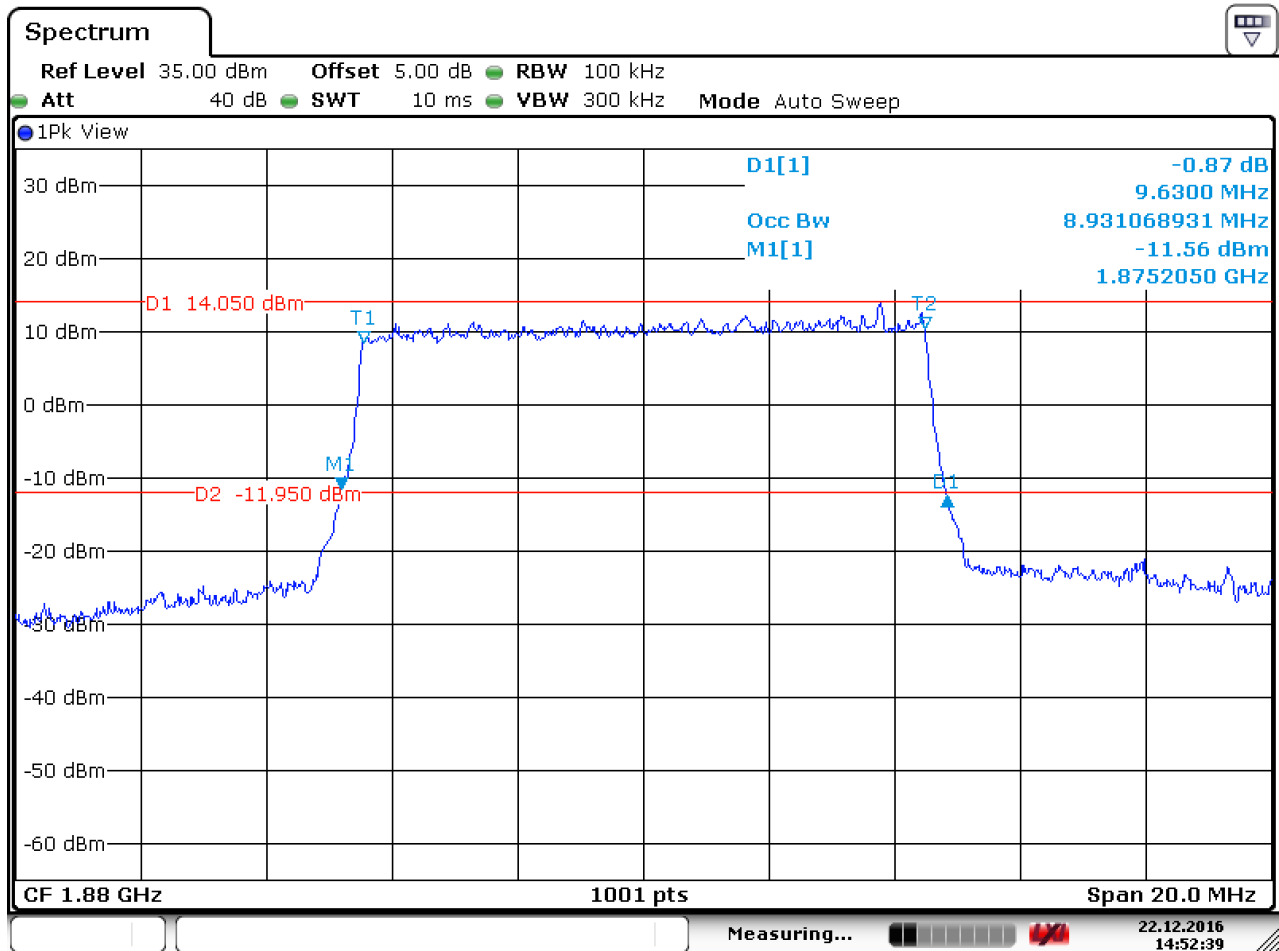


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4.1.1.8.2 Test Channel = MCH

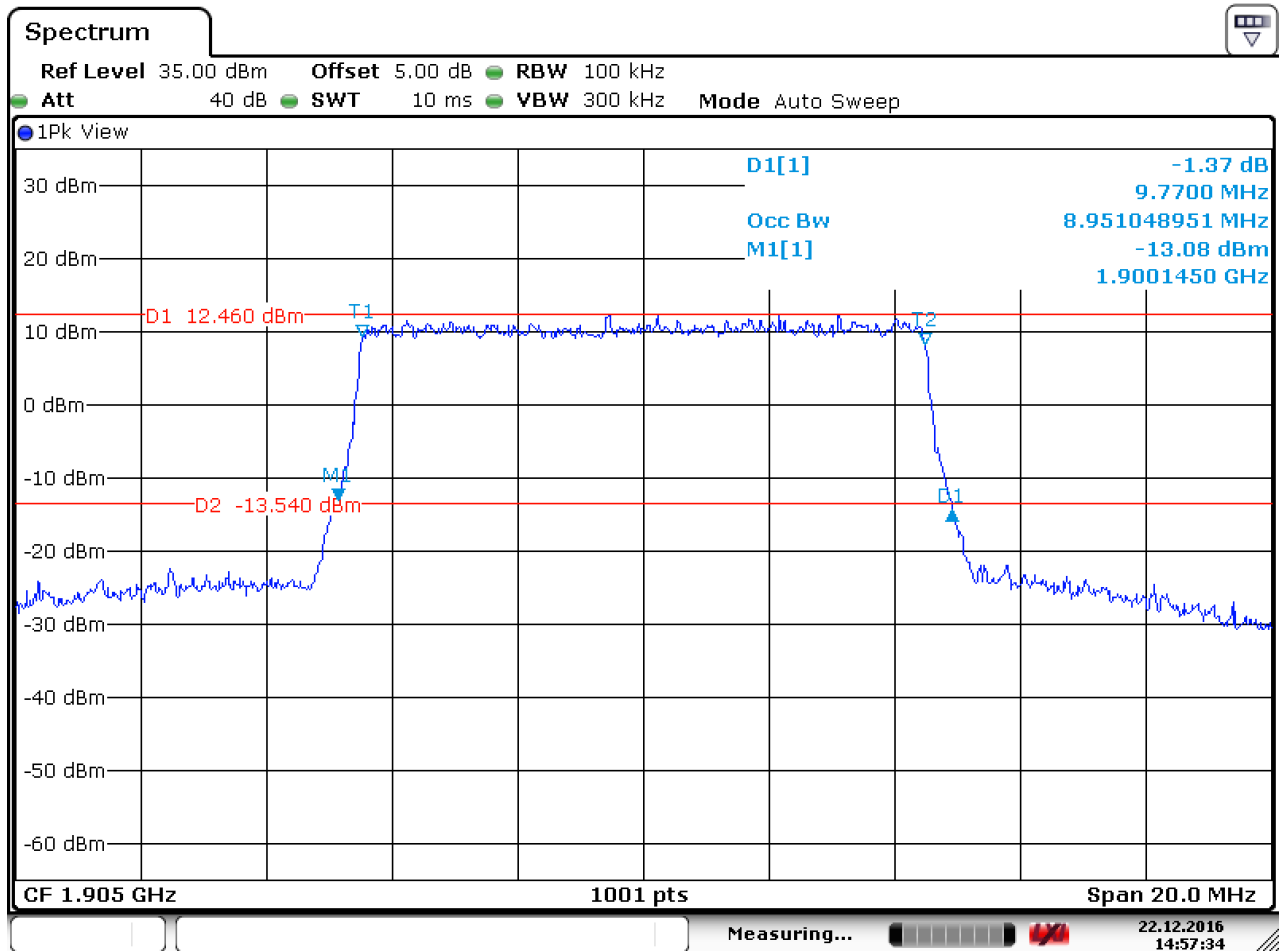


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4.1.1.8.3 Test Channel = HCH



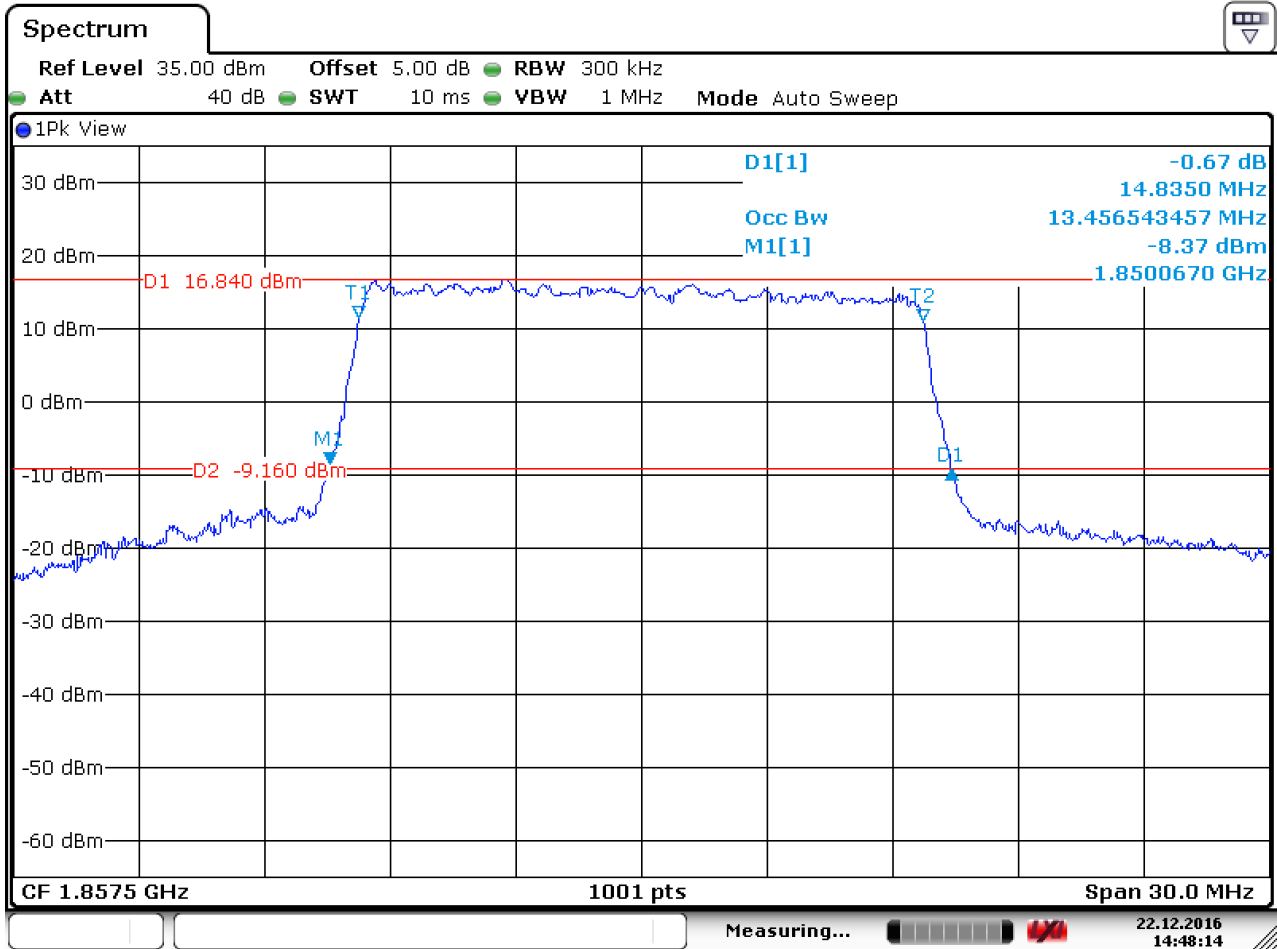
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4.1.1.9 Test Mode = LTE/TM1 15MHz

4.1.1.9.1 Test Channel = LCH

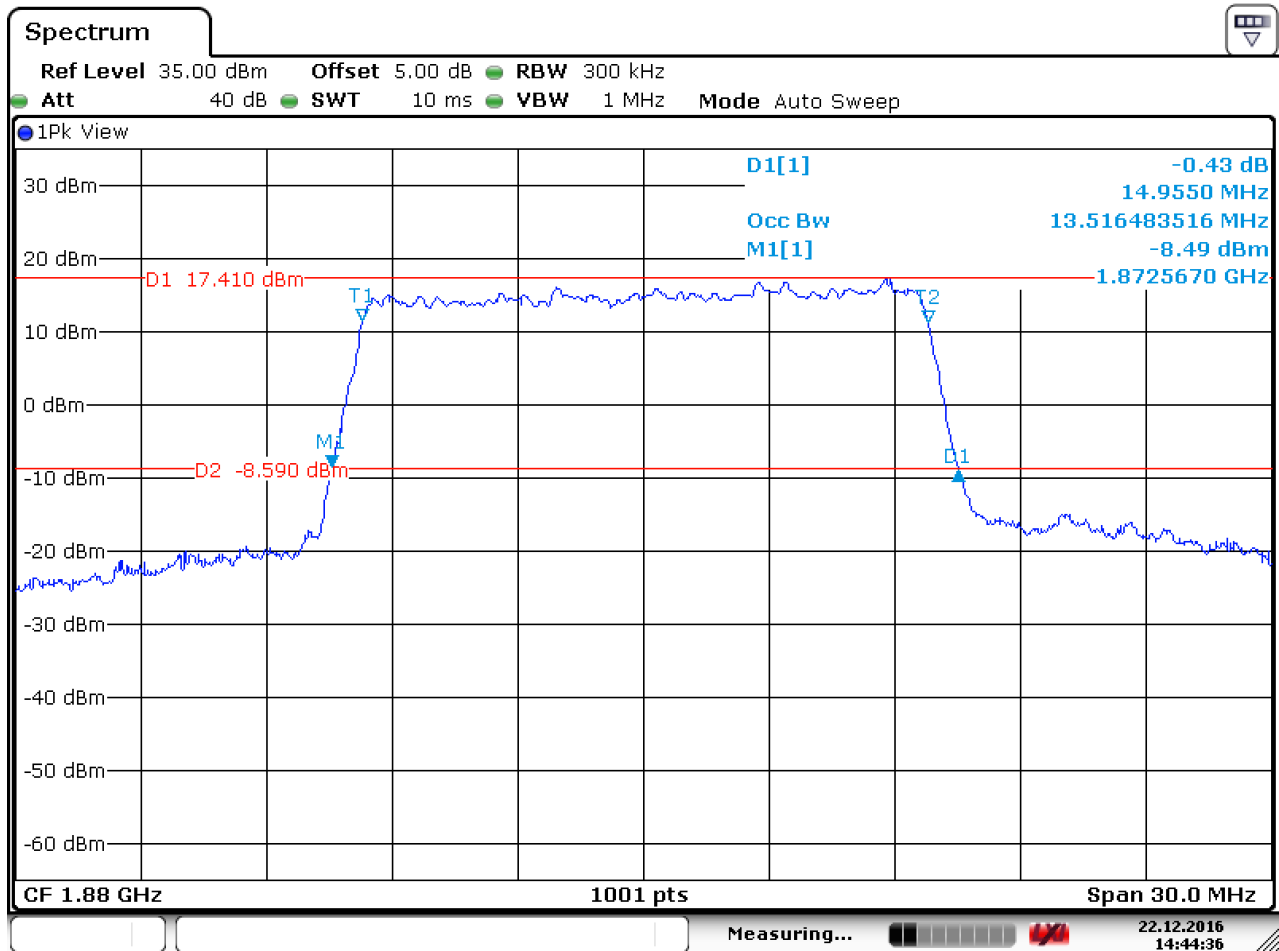


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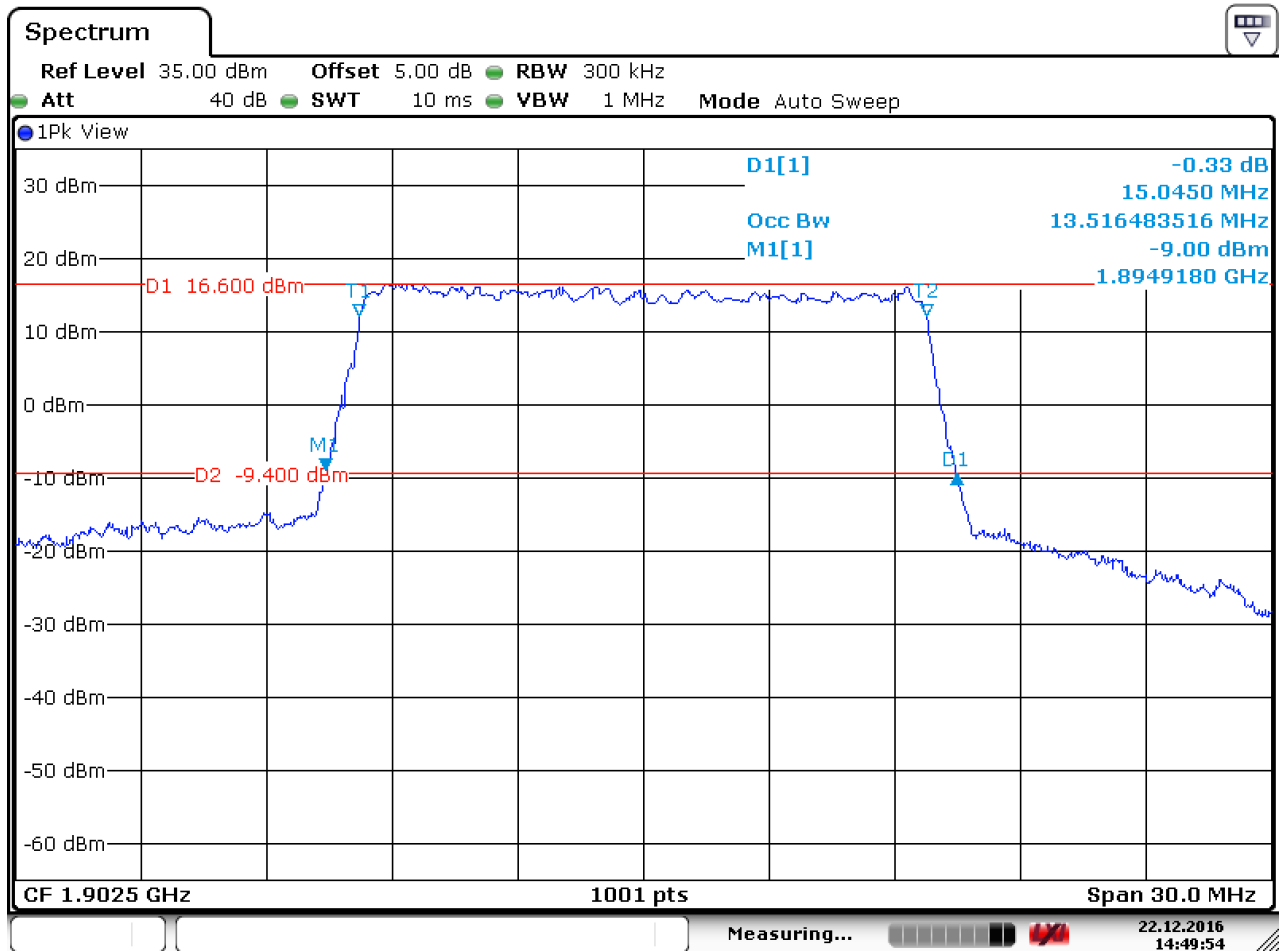
4.1.1.9.2 Test Channel = MCH



Date: 22.DEC.2016 14:44:37



4.1.1.9.3 Test Channel = HCH



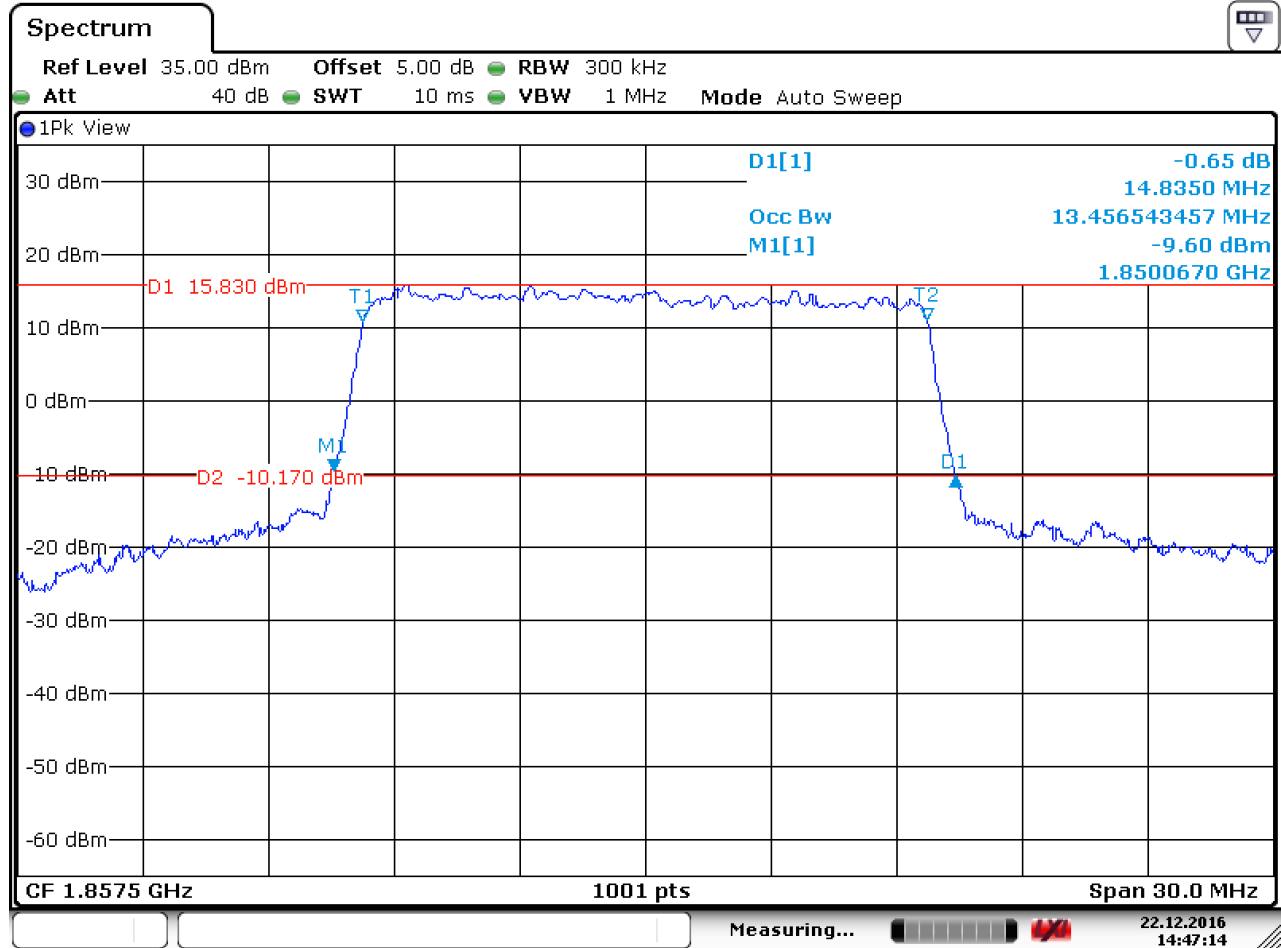
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4.1.1.10 Test Mode = LTE/TM2 15MHz

4.1.1.10.1 Test Channel = LCH

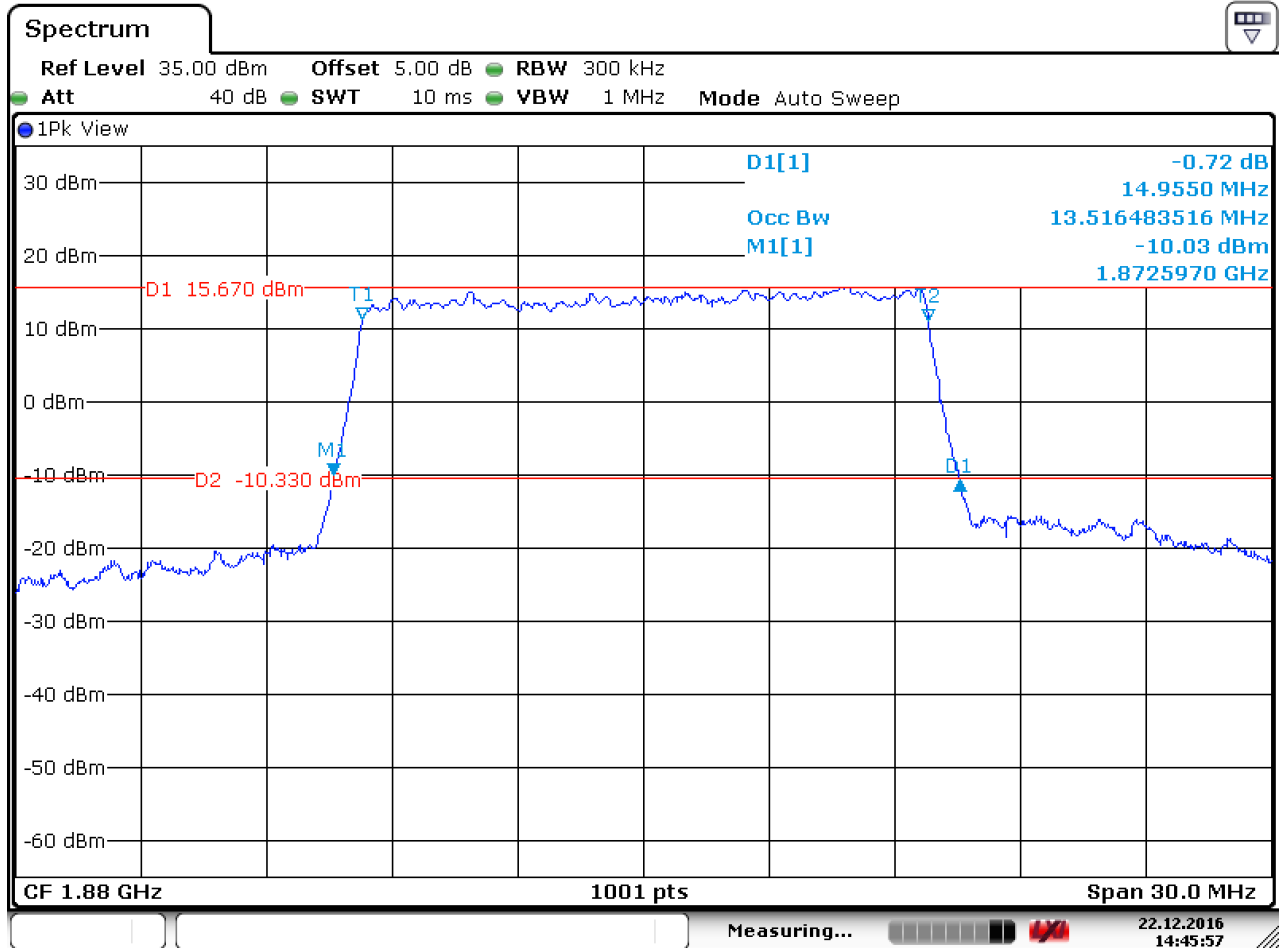


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4.1.1.10.2 Test Channel = MCH



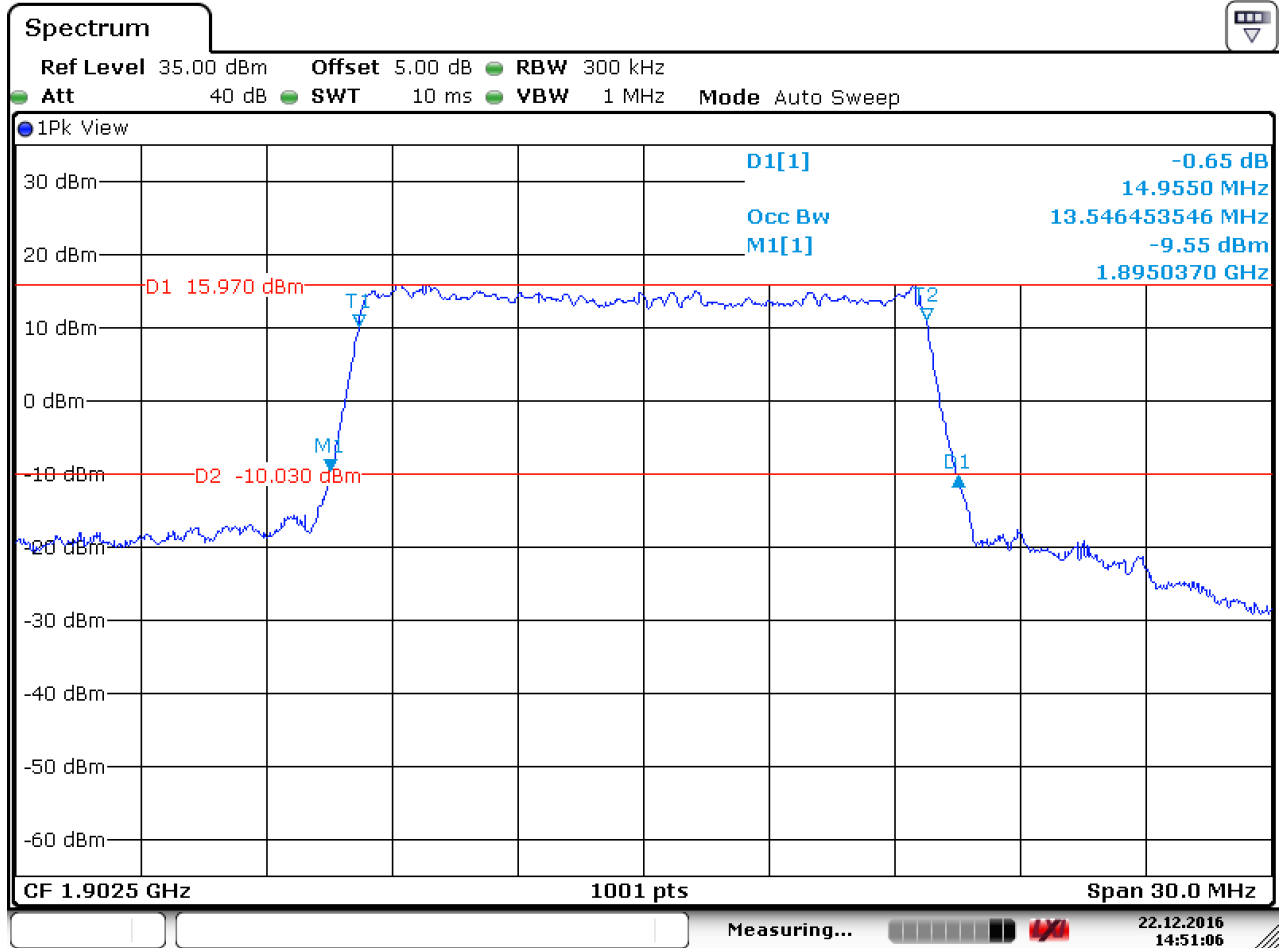
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4.1.1.10.3 Test Channel = HCH



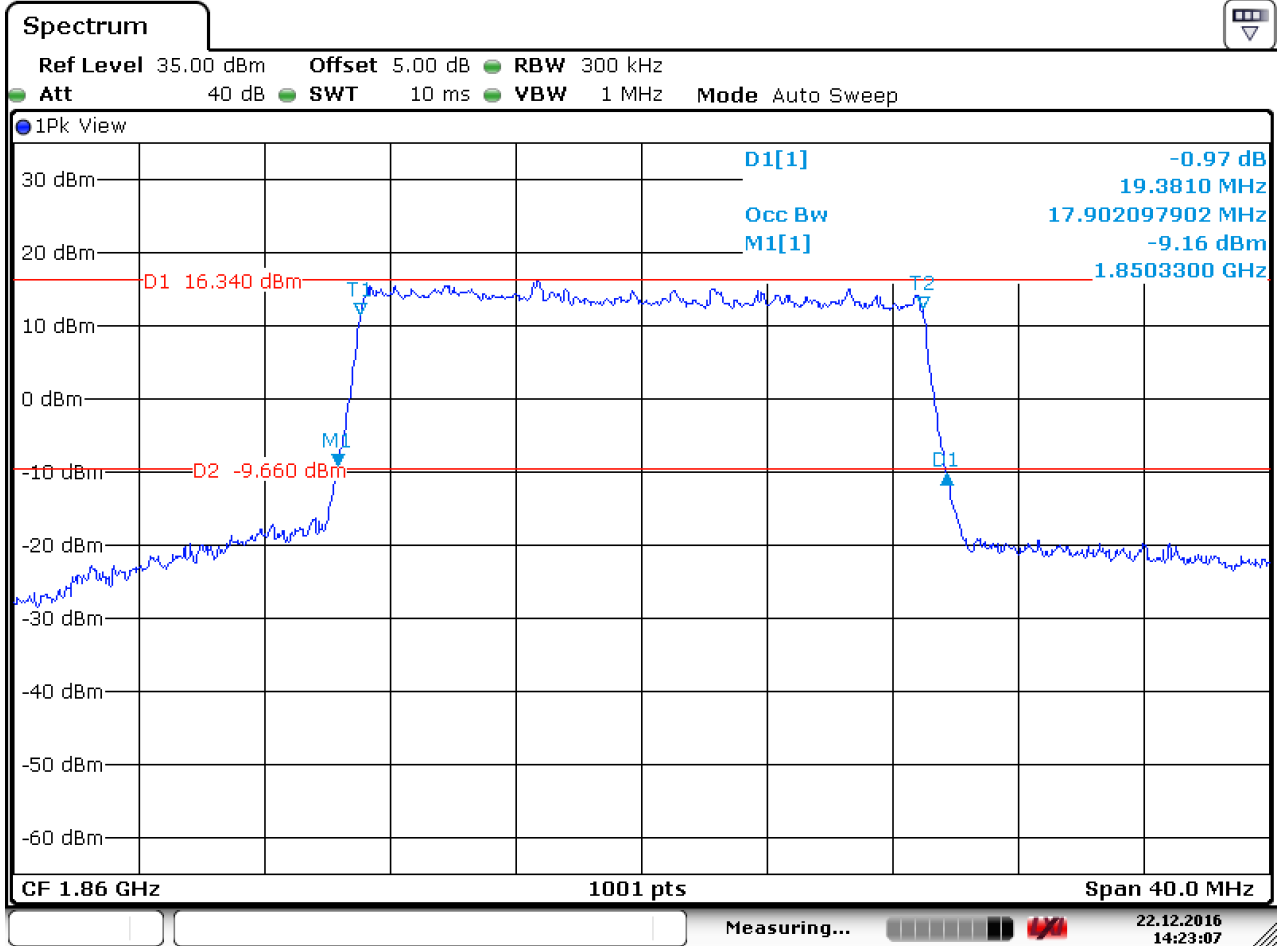
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4.1.1.11 Test Mode = LTE/TM1 20MHz

4.1.1.11.1 Test Channel = LCH

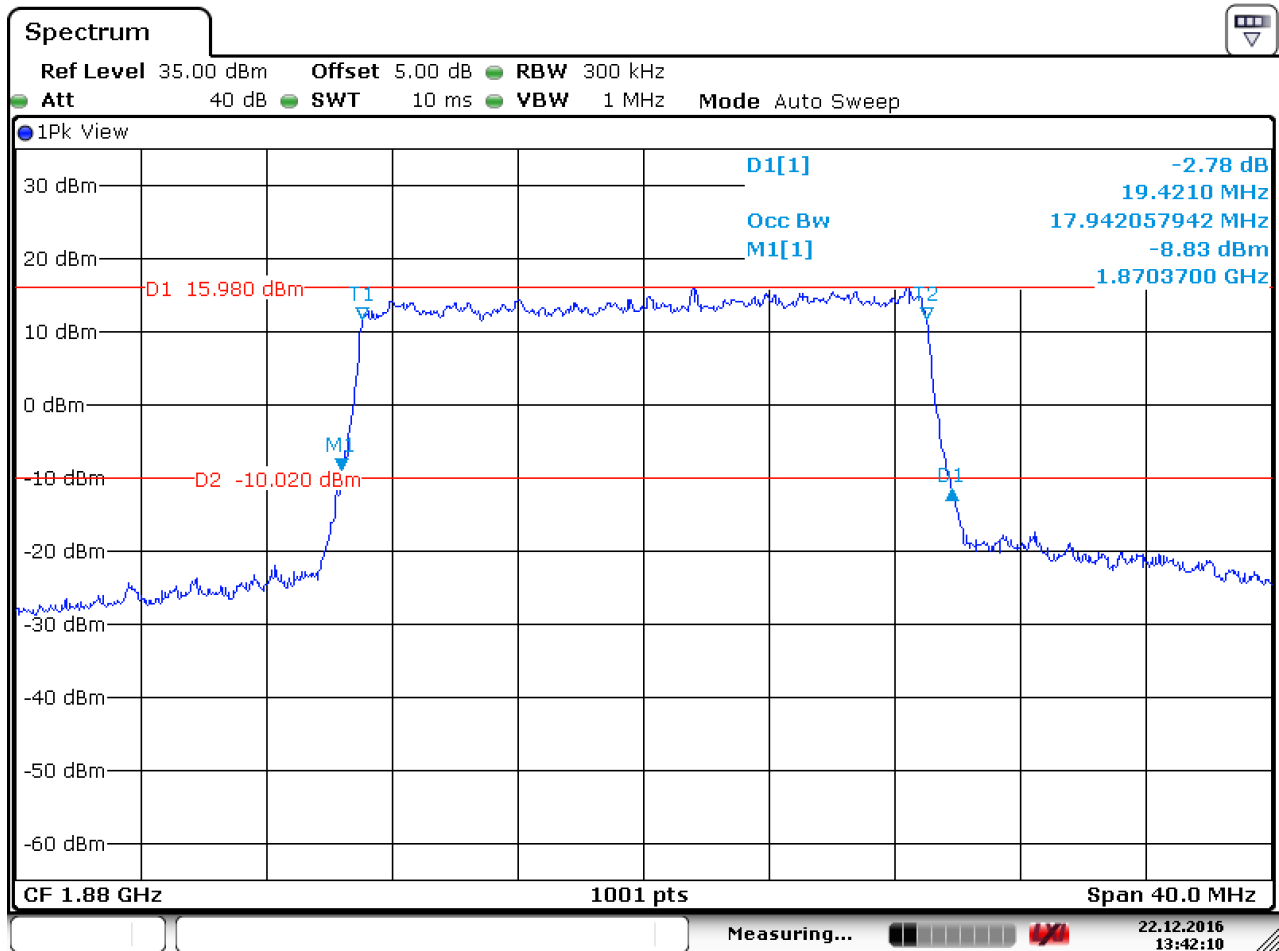


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4.1.1.11.2 Test Channel = MCH

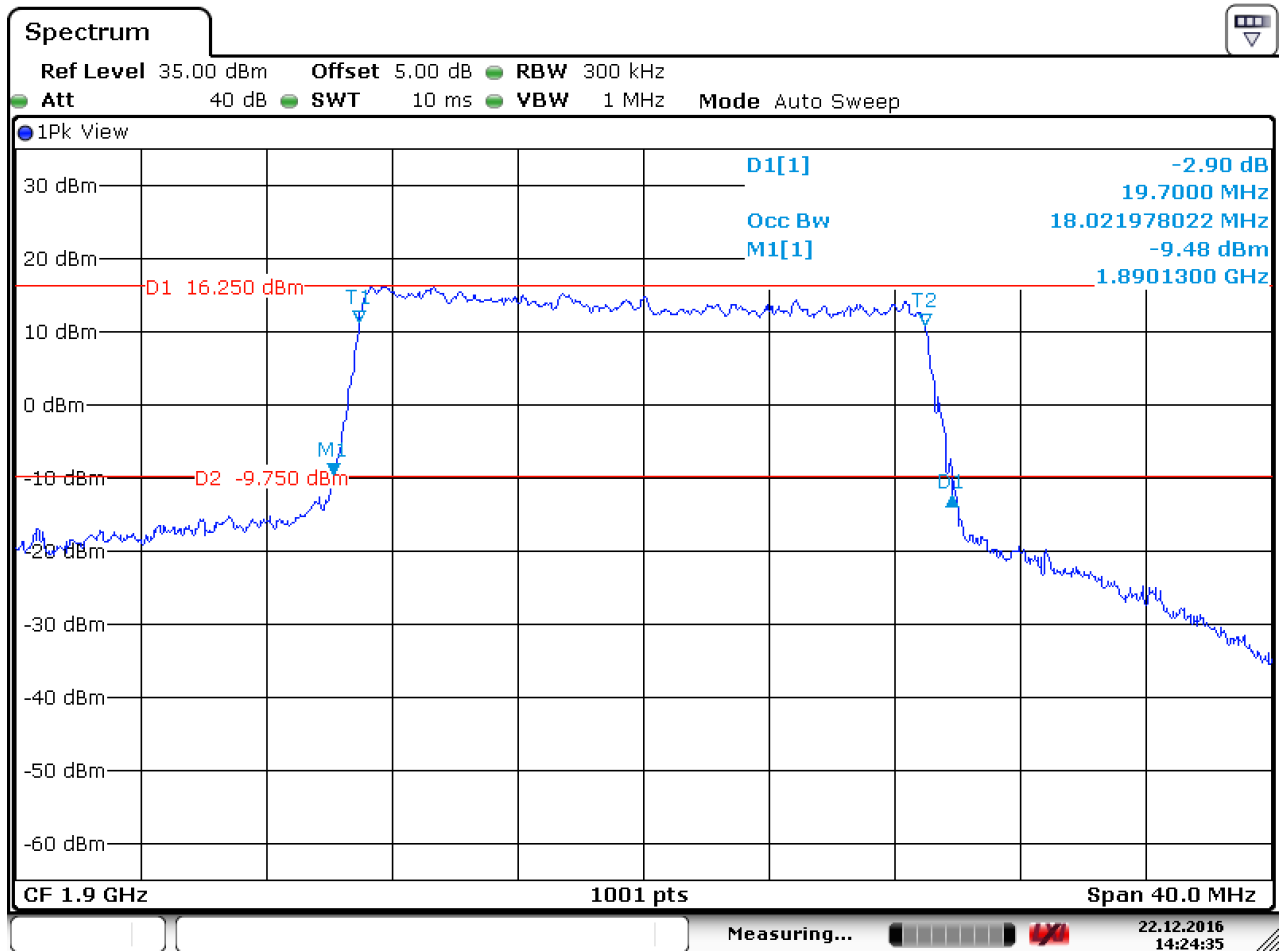


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4.1.1.11.3 Test Channel = HCH



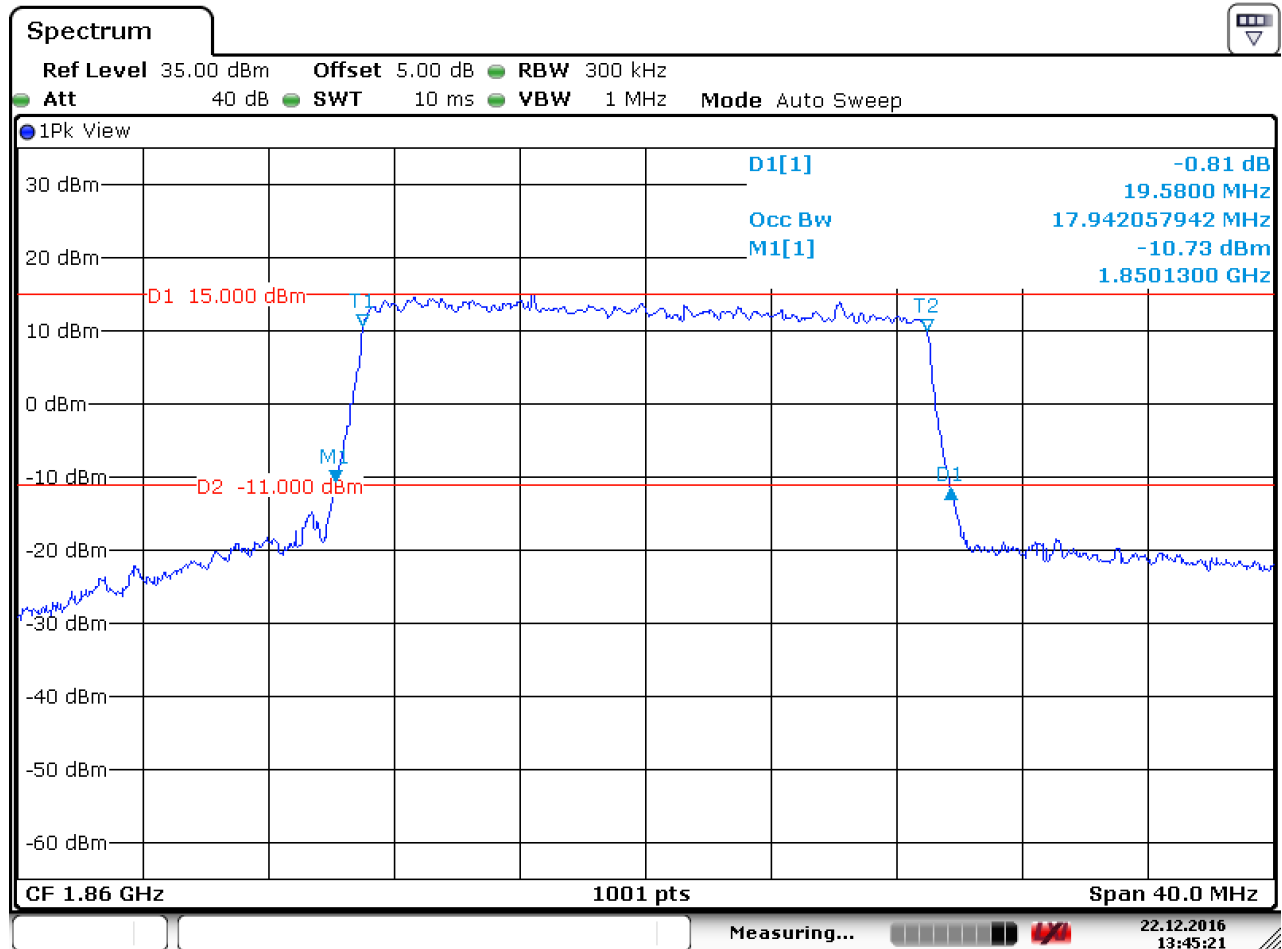
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4.1.1.12 Test Mode = LTE/TM2 20MHz

4.1.1.12.1 Test Channel = LCH

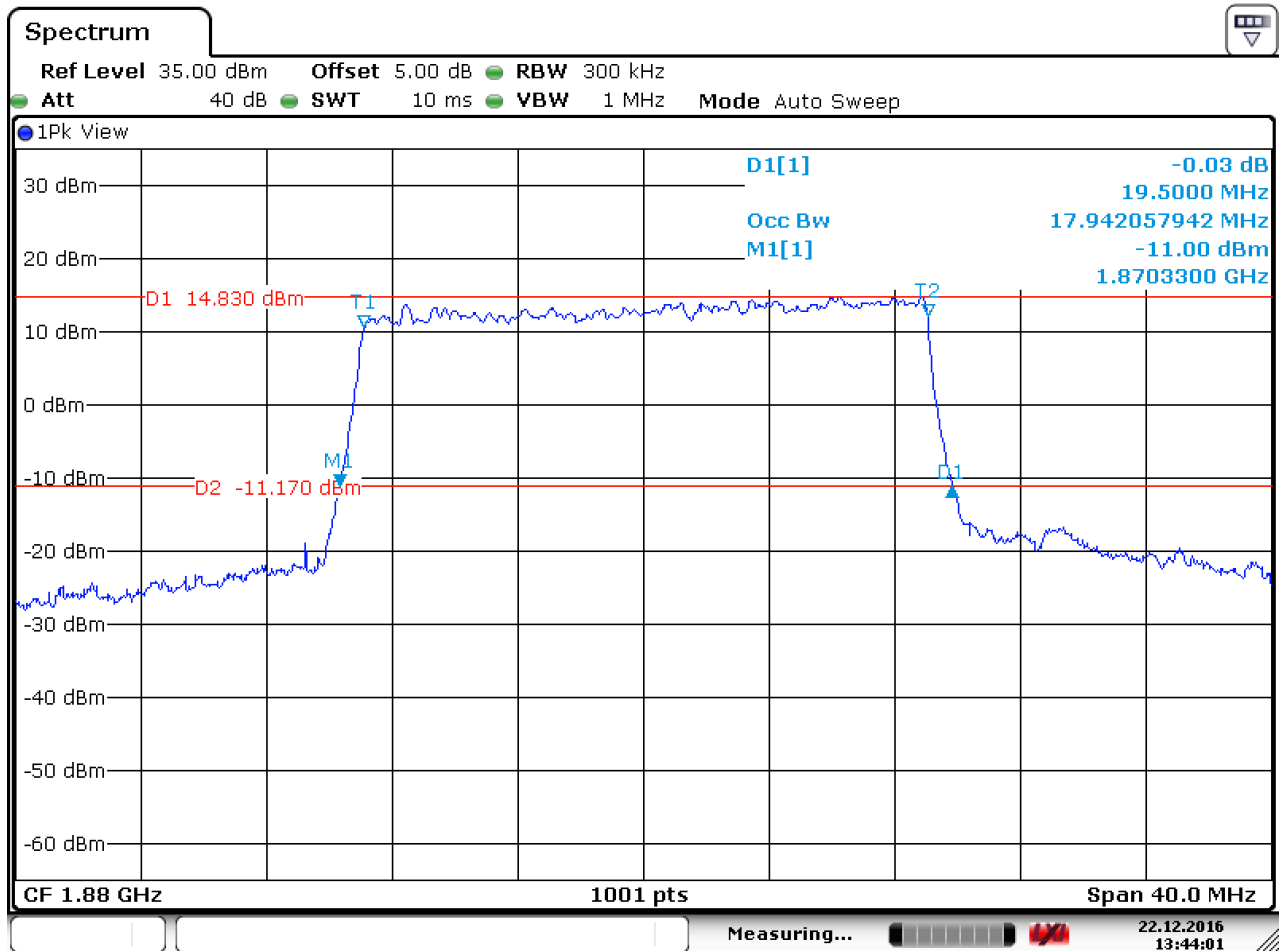


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4.1.1.12.2 Test Channel = MCH

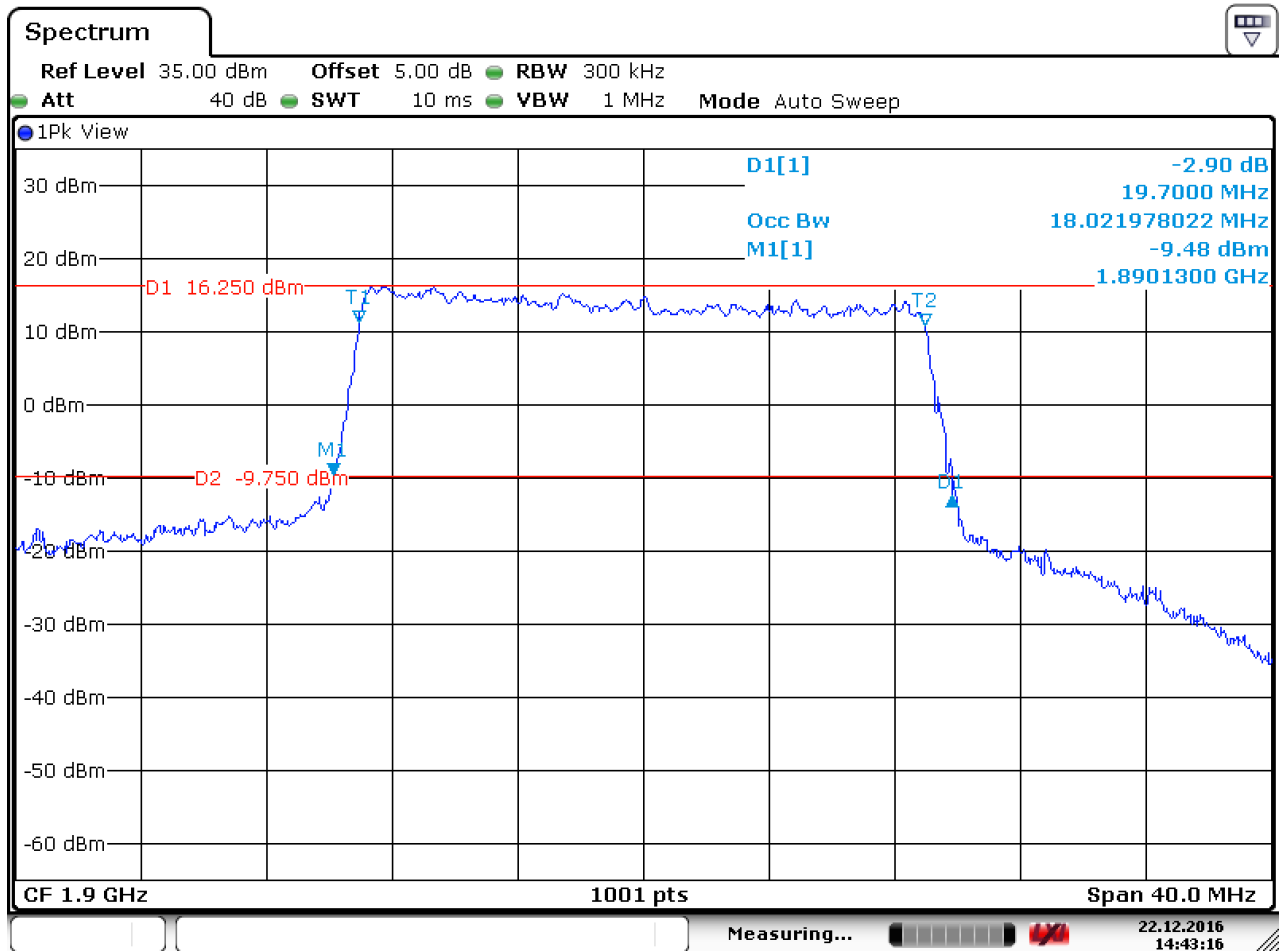


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4.1.1.12.3 Test Channel = HCH



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## 5 Band Edges Compliance

Part I –

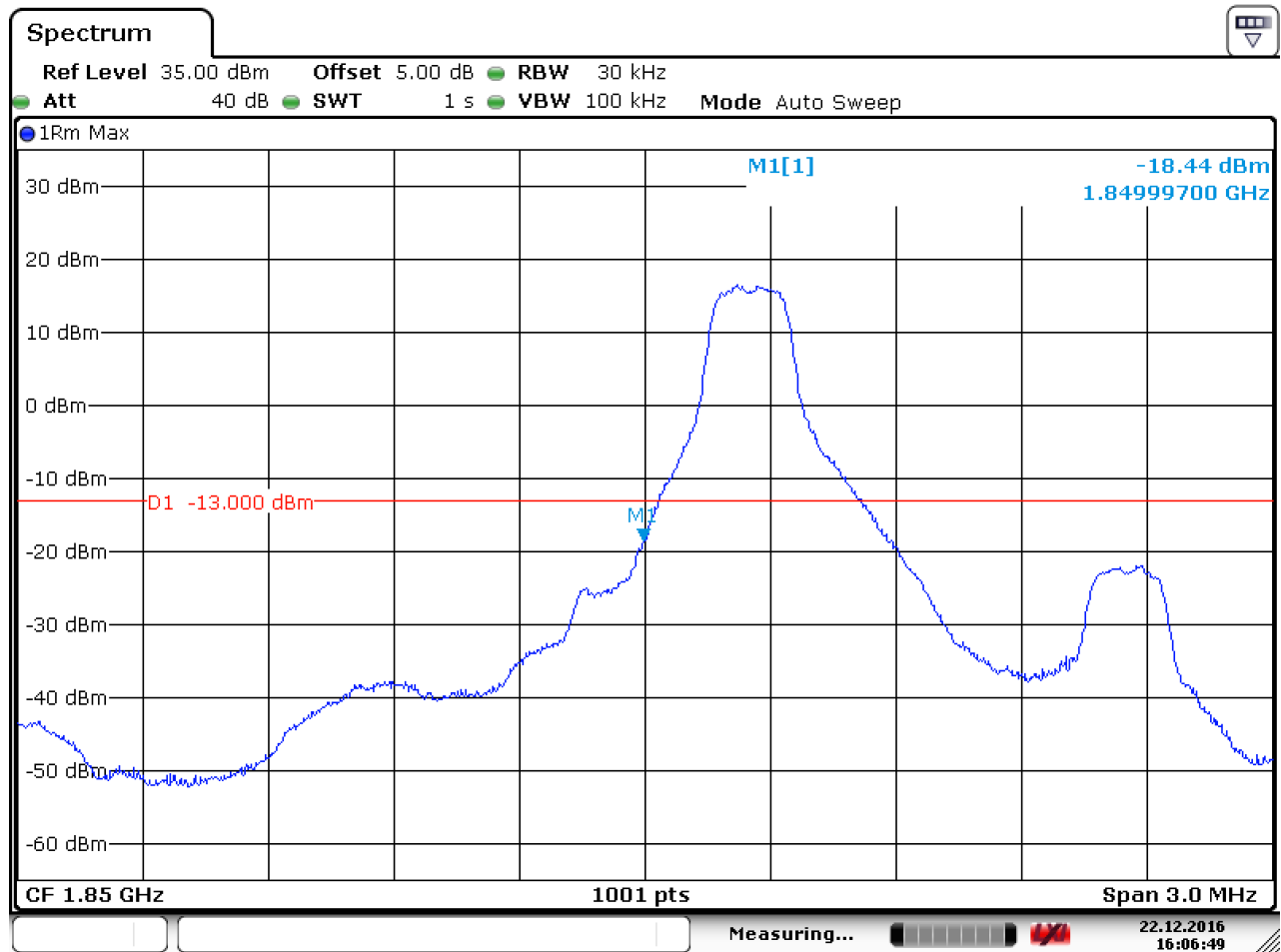
### 5.1 For LTE

#### 5.1.1 Test Band = LTE band2

##### 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

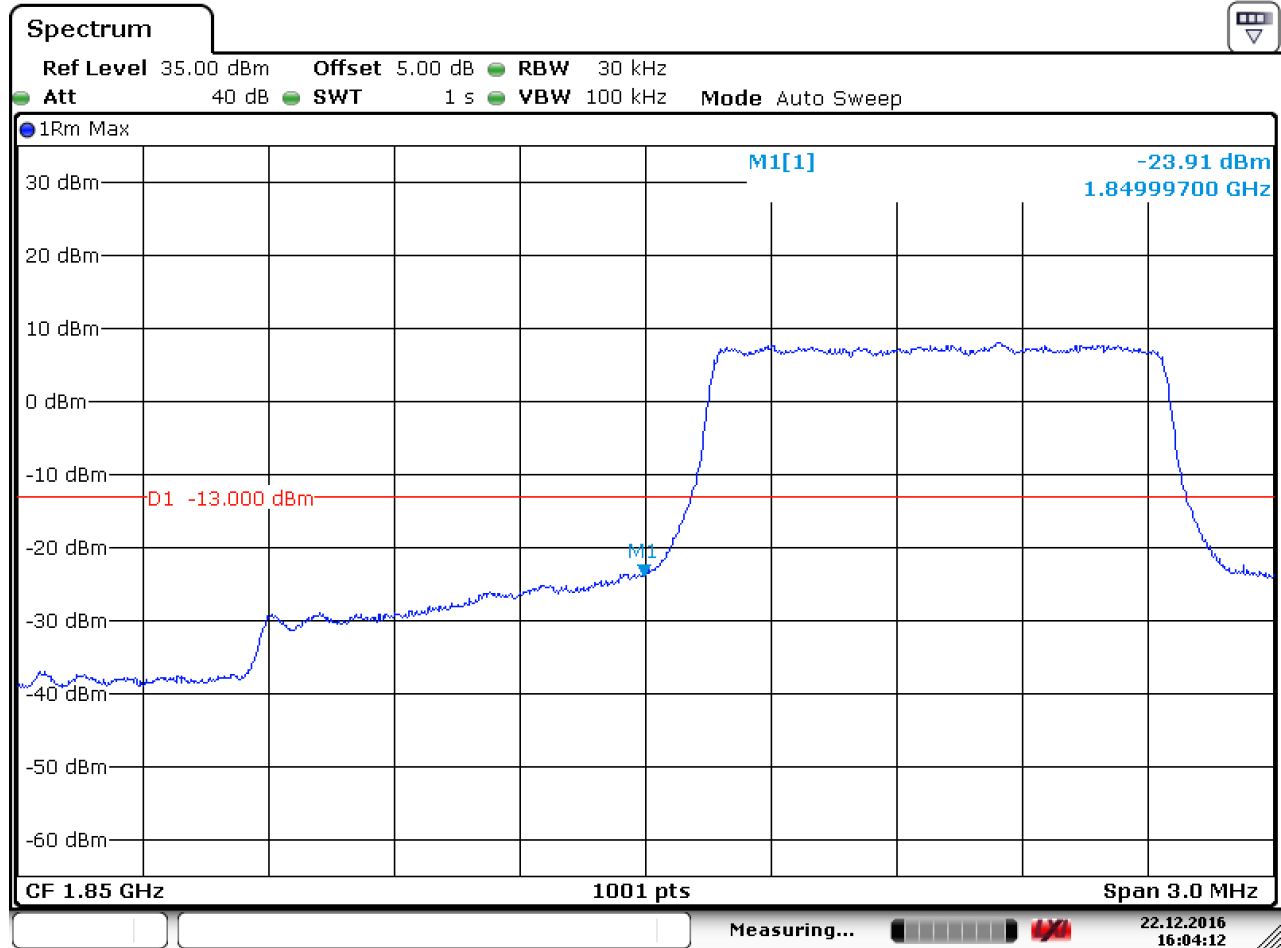


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5.1.1.1.1.2 Test RB=6RB

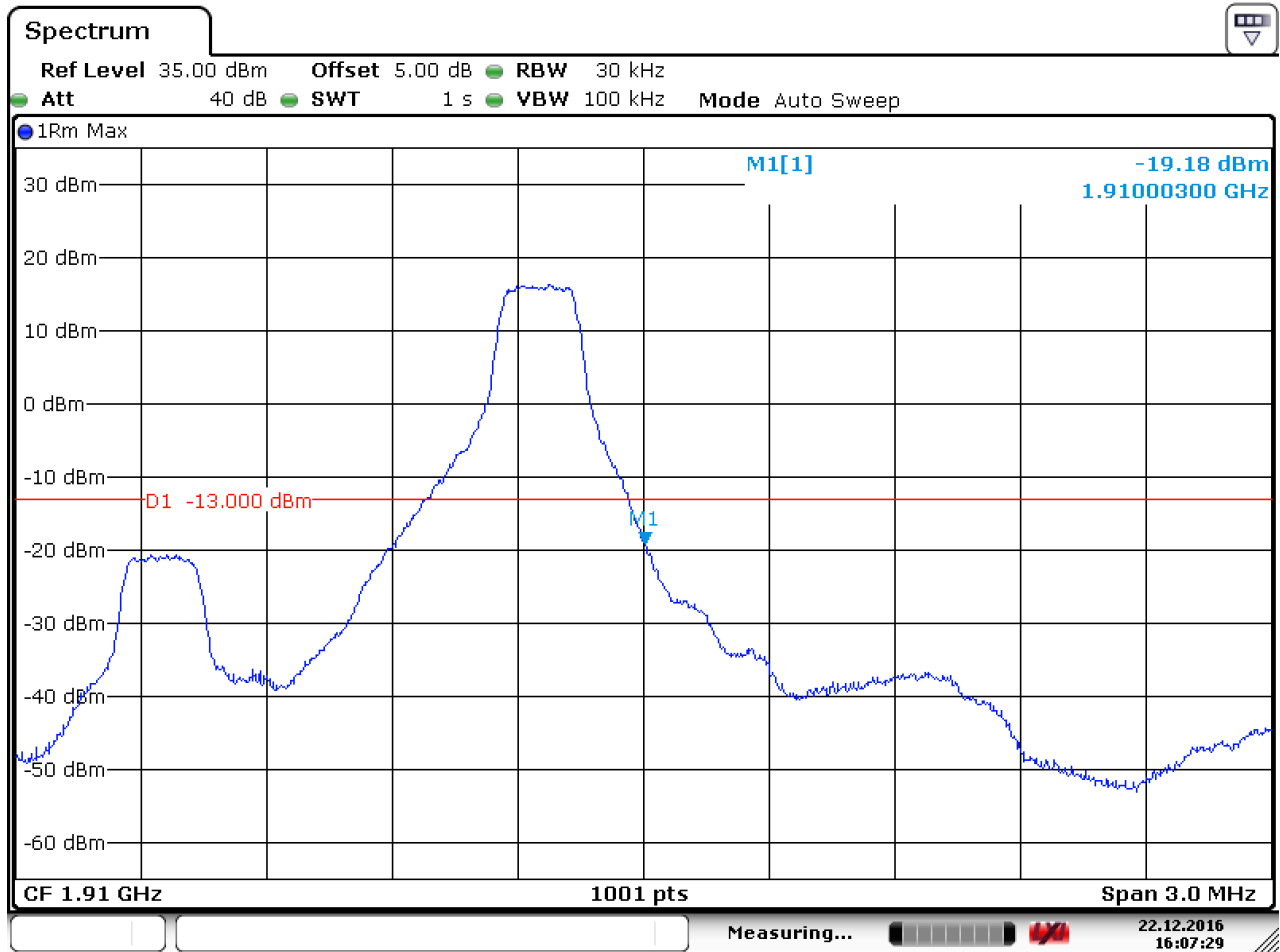


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5.1.1.1.2 Test Channel = HCH

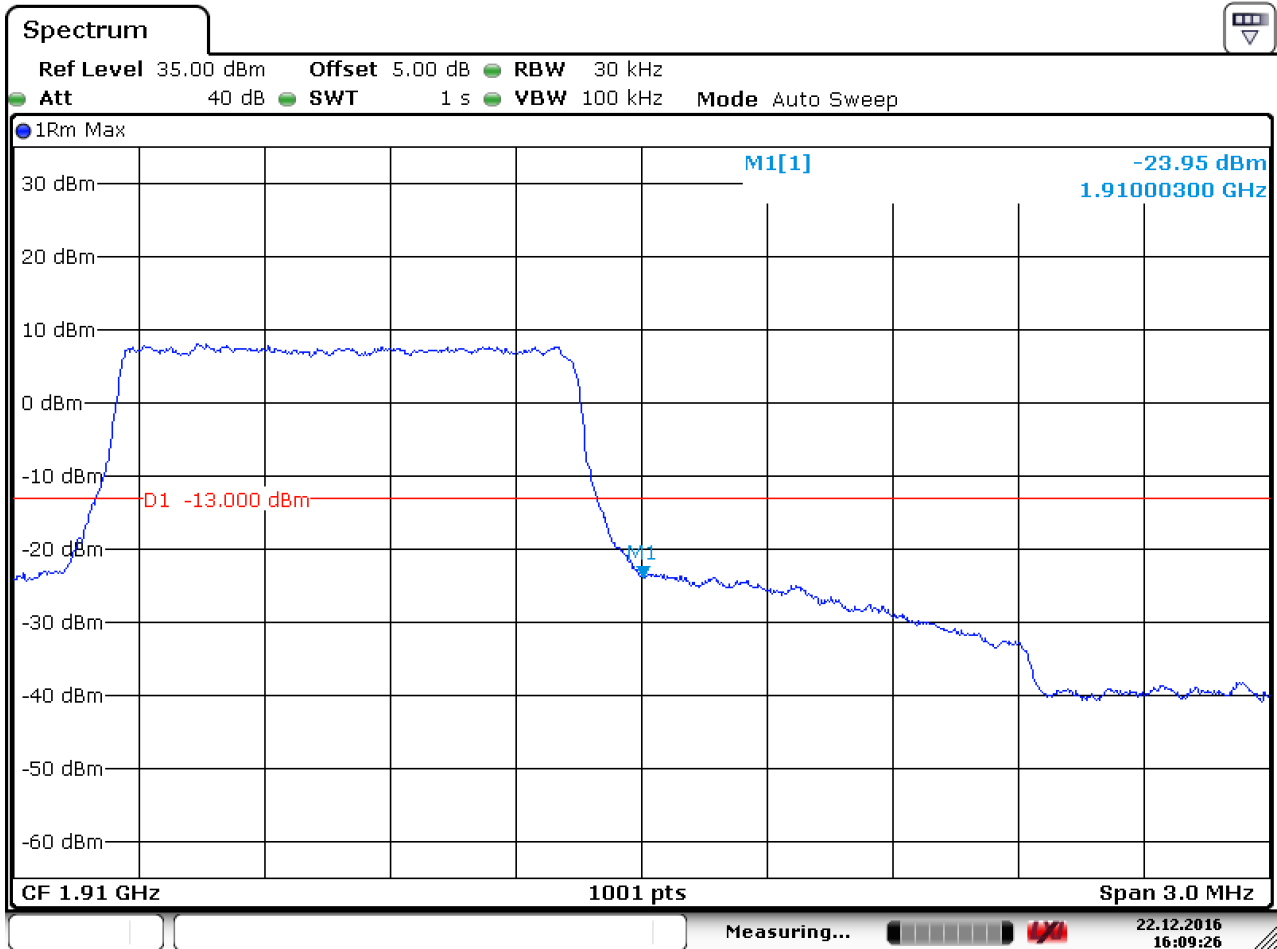
5.1.1.1.2.1 Test RB=1RB



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5.1.1.1.2.2 Test RB=6RB



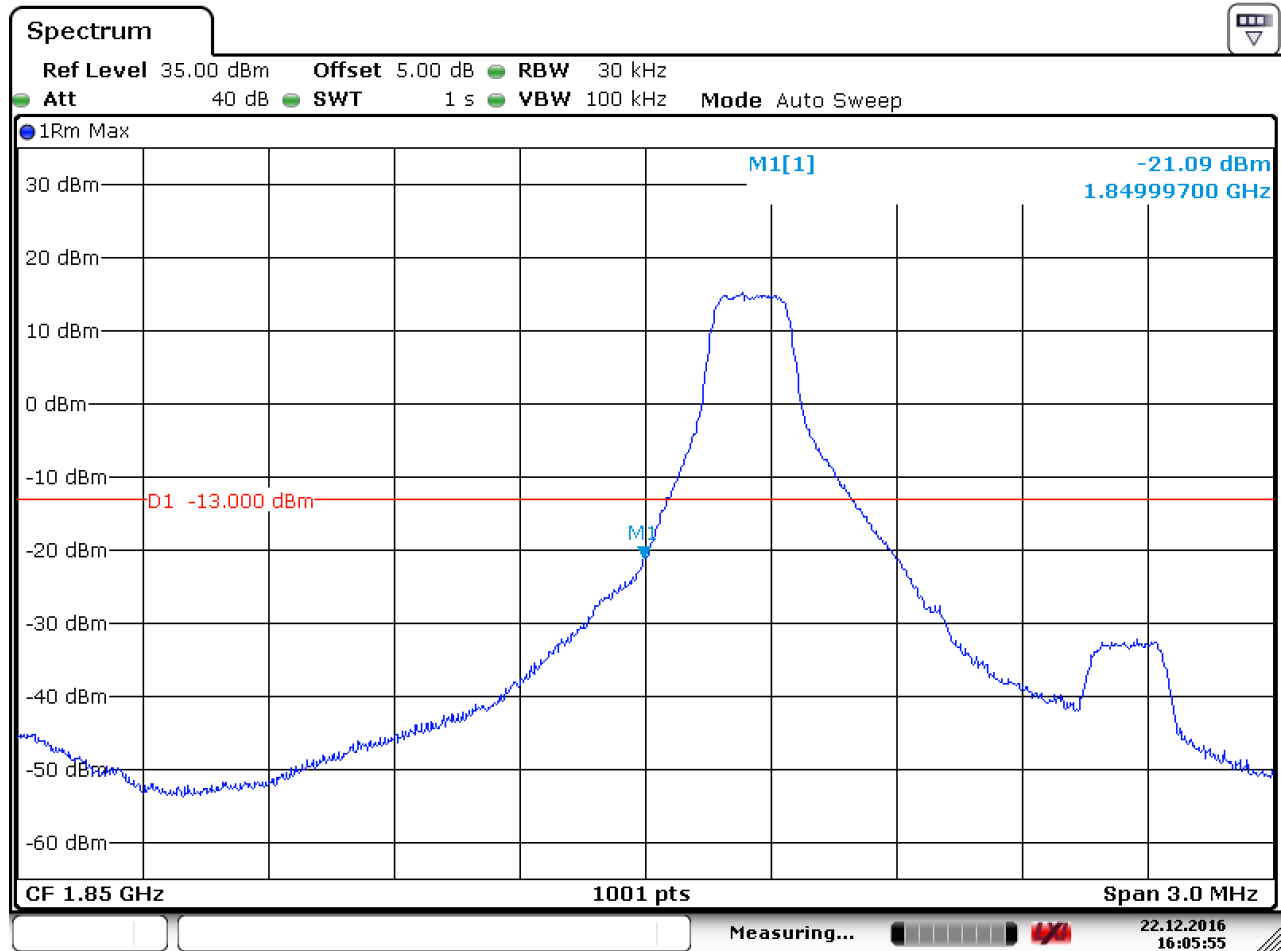
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5.1.1.2 Test Mode = LTE/TM2 1.4MHz  
5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB

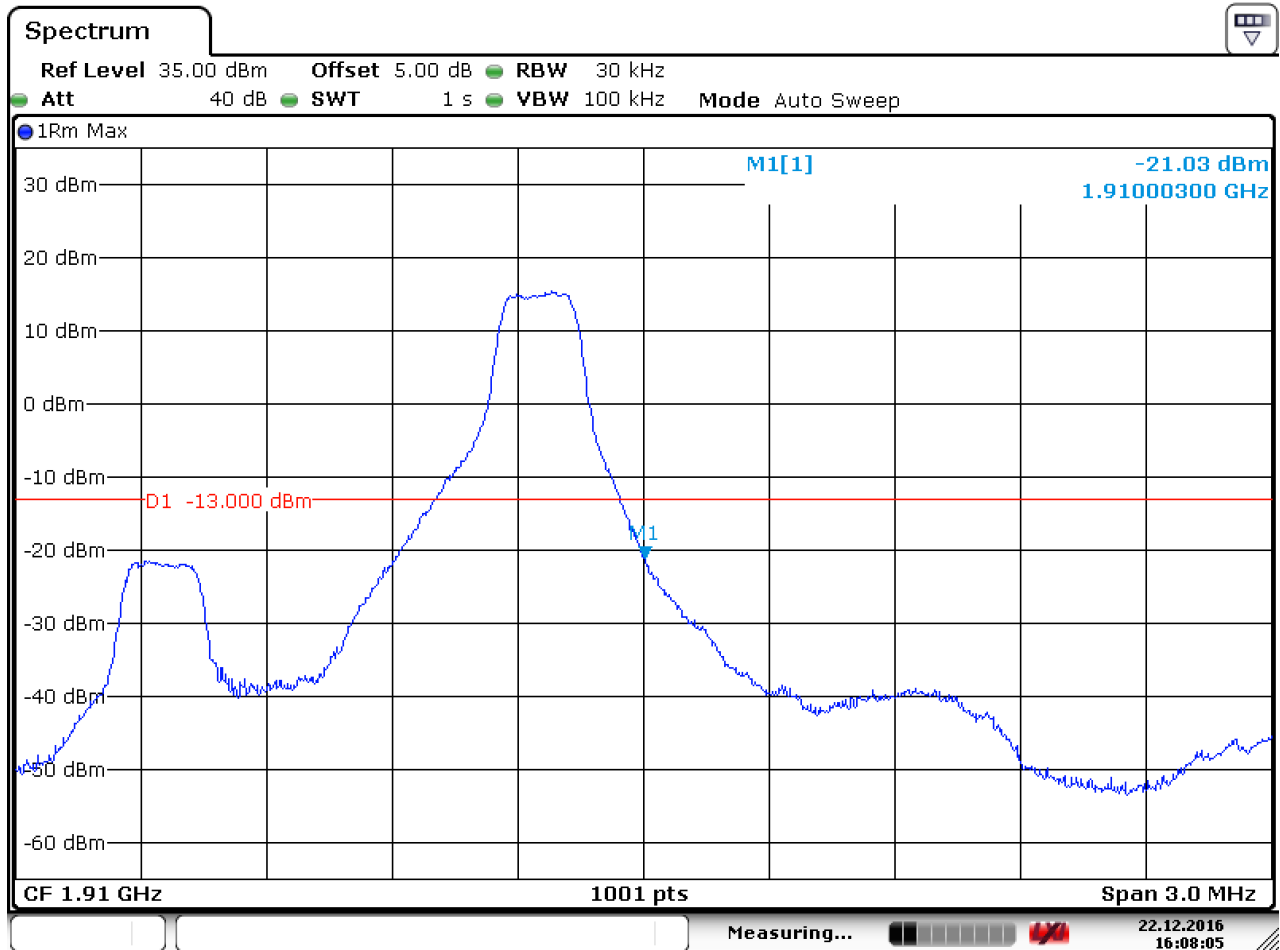


Date: 22.DEC.2016 16:05:56



**5.1.1.2.2 Test Channel = HCH**

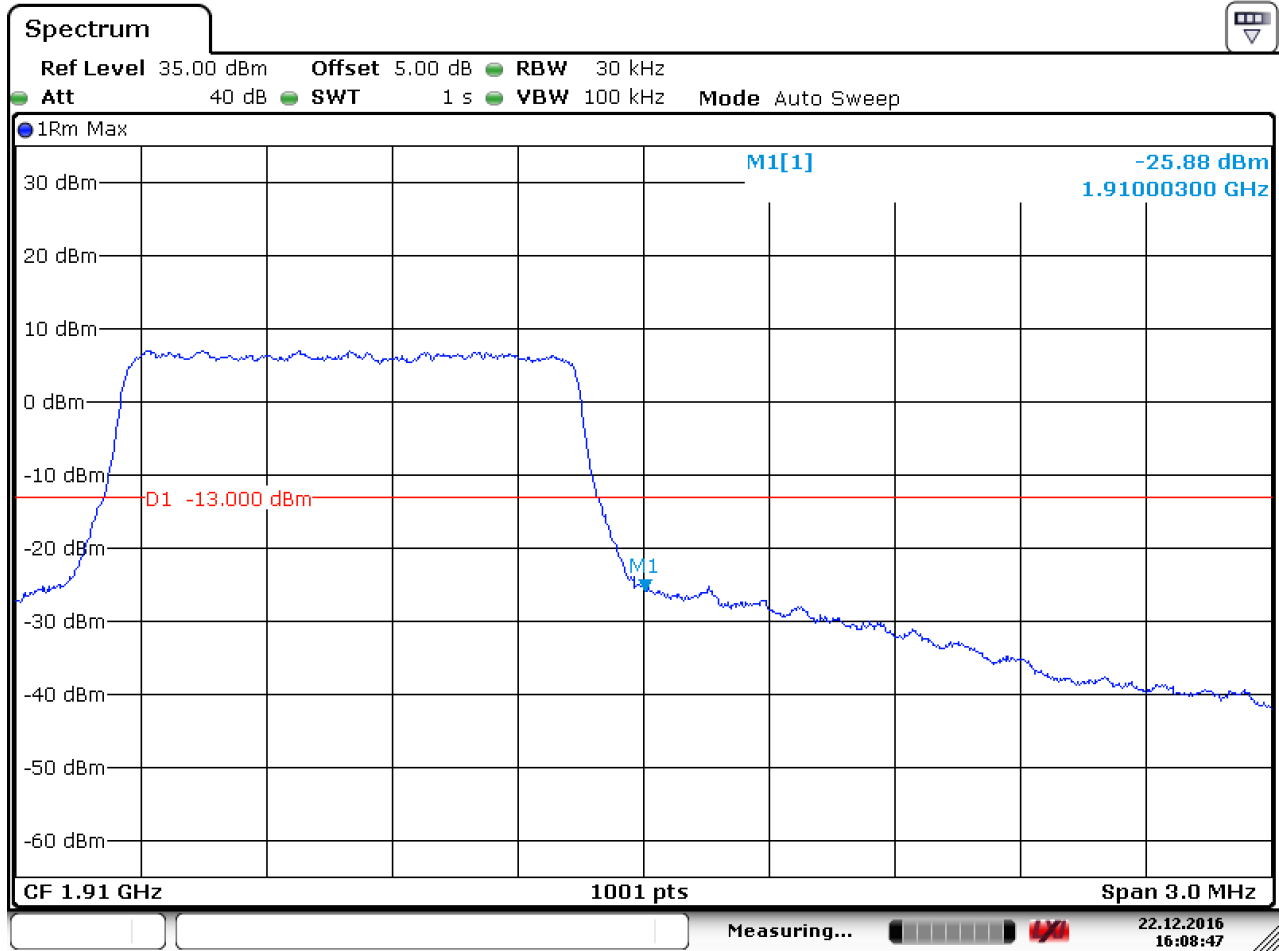
**5.1.1.2.2.1 Test RB=1RB**



Date: 22.DEC.2016 16:08:05



5.1.1.2.2.2 Test RB=6RB



Date: 22.DEC.2016 16:08:48

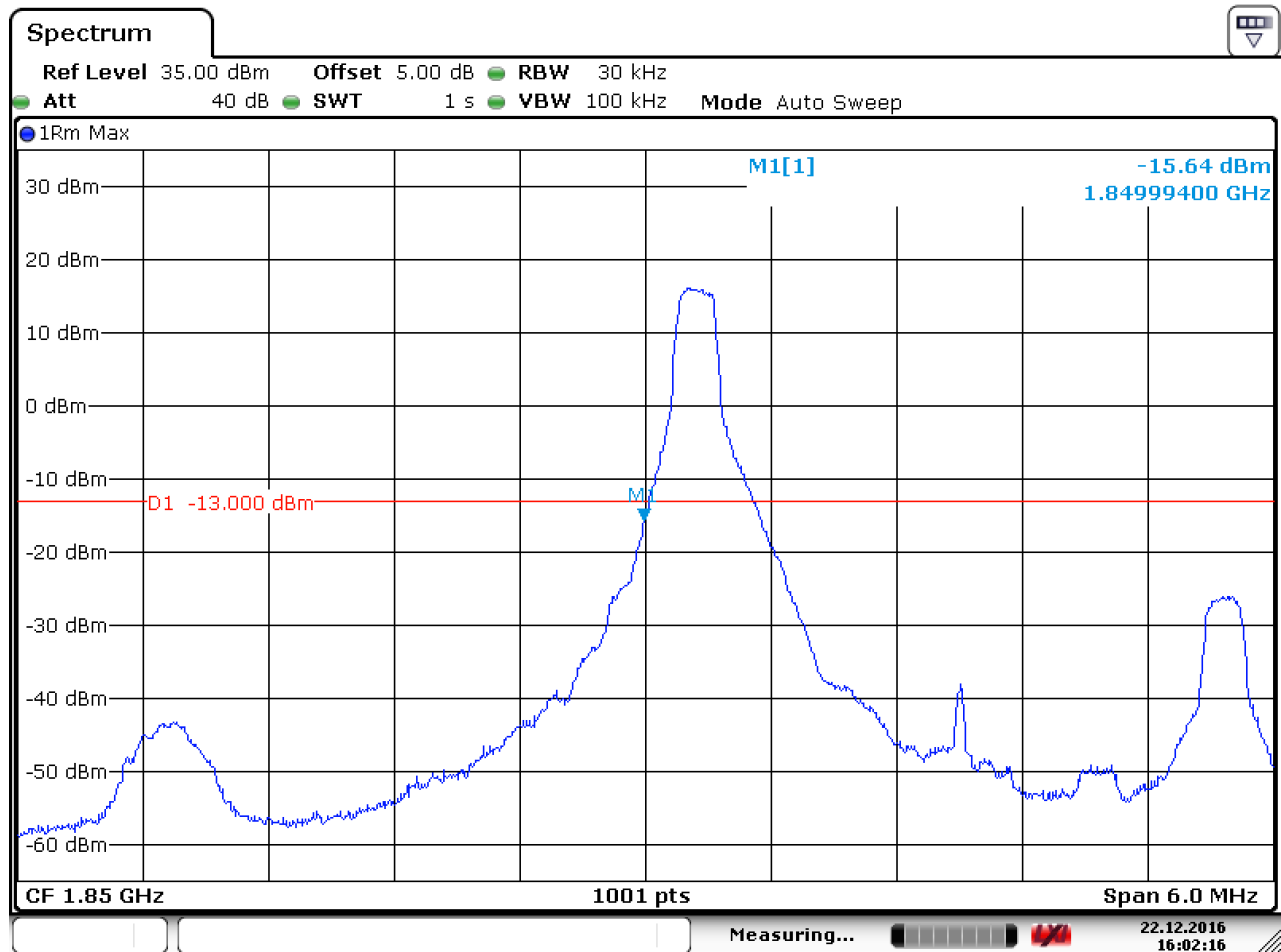
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5.1.1.3 Test Mode = LTE/TM1 3MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



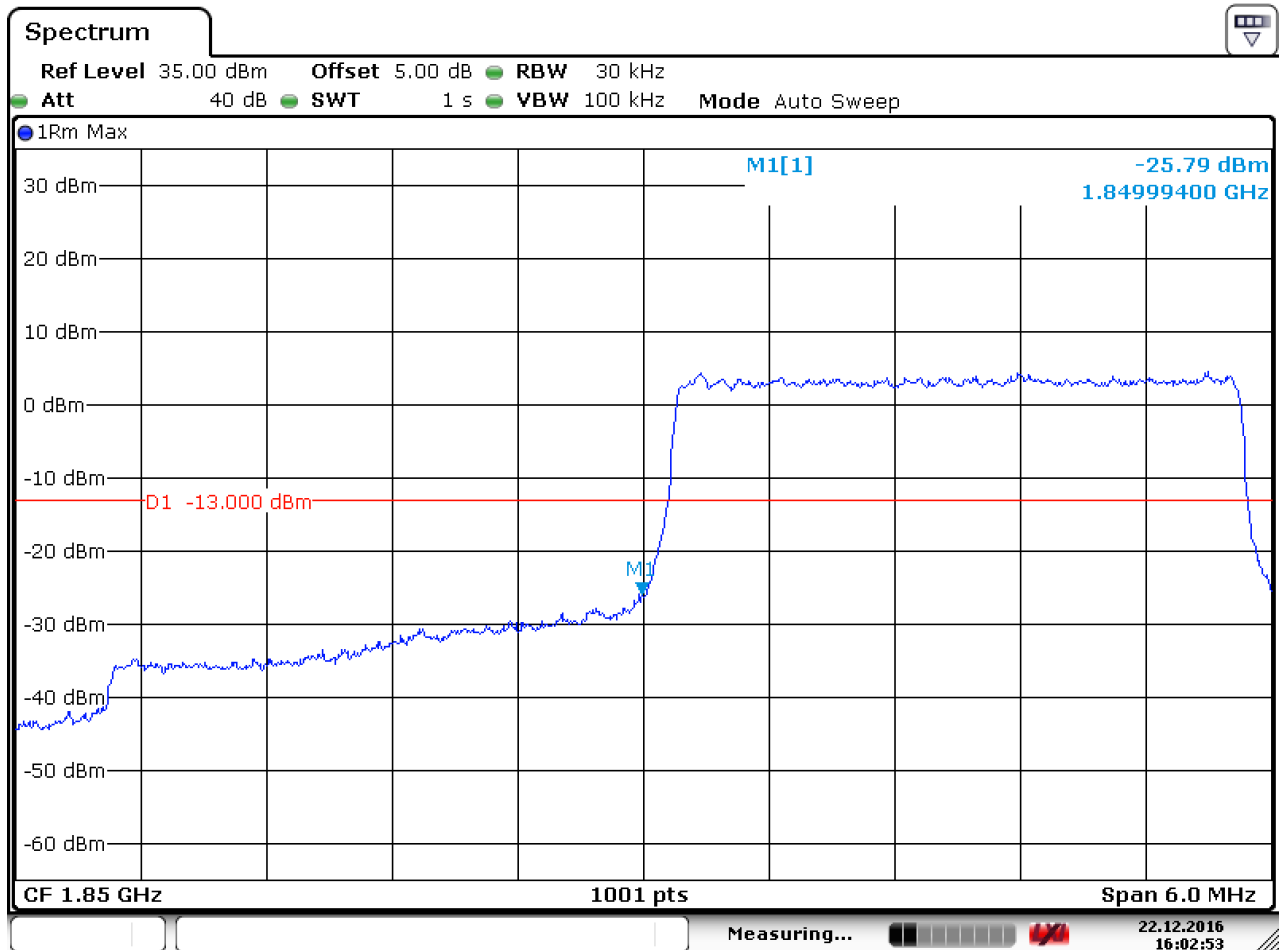
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5.1.1.3.1.2 Test RB=15RB

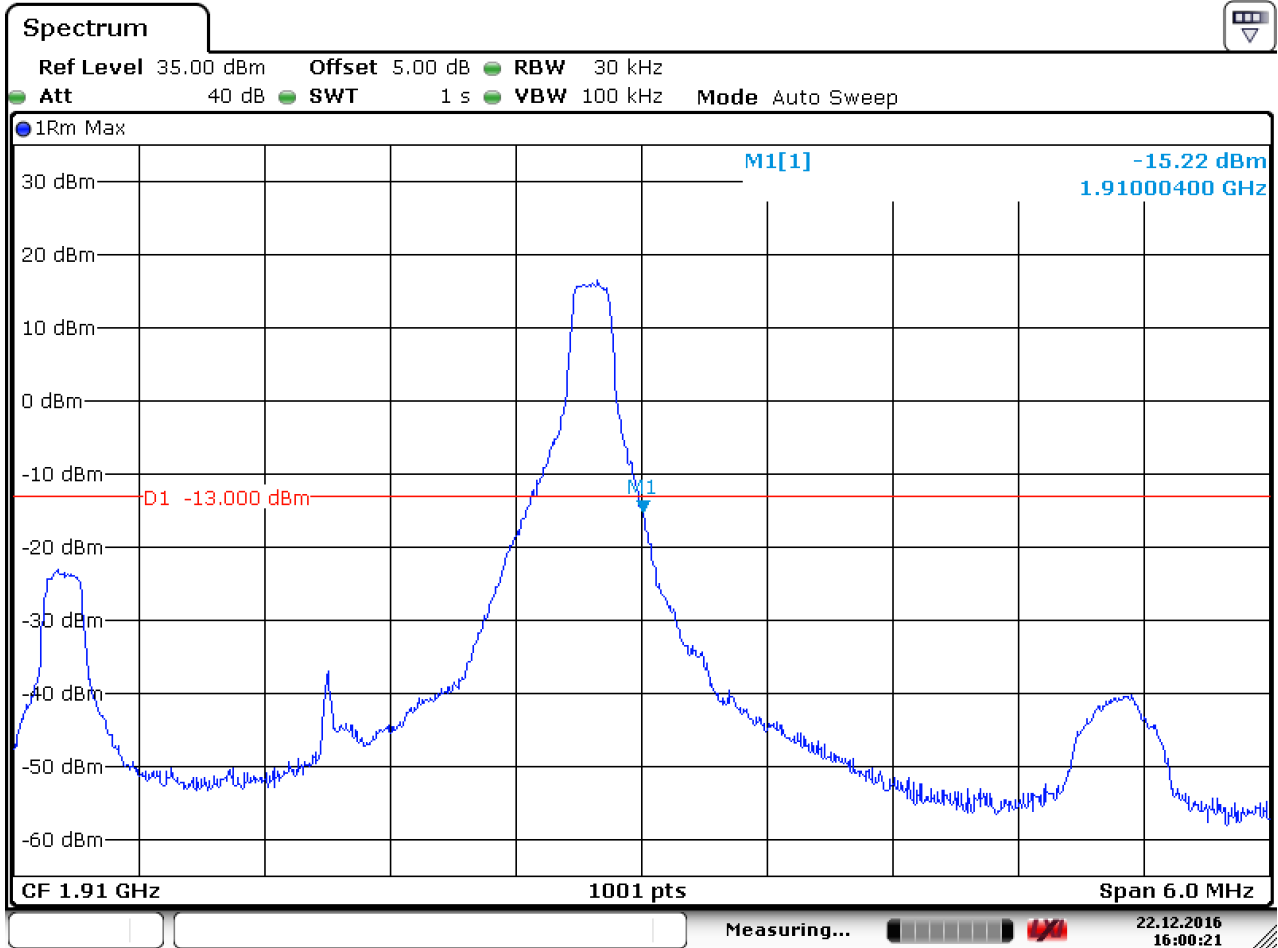


Date: 22.DEC.2016 16:02:53

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5.1.1.3.2 Test Channel = HCH

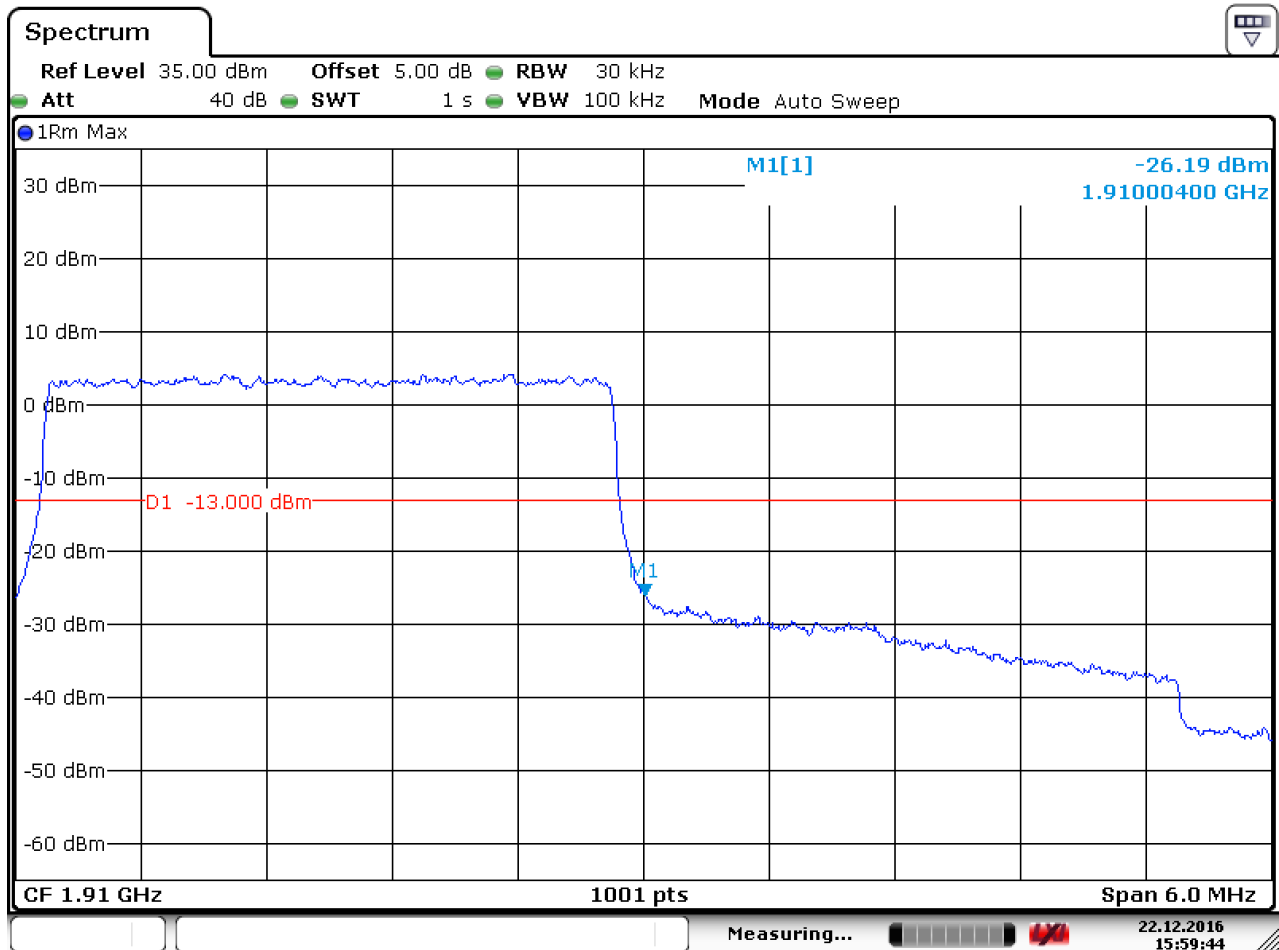
5.1.1.3.2.1 Test RB=1RB



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5.1.1.3.2.2 Test RB=15RB



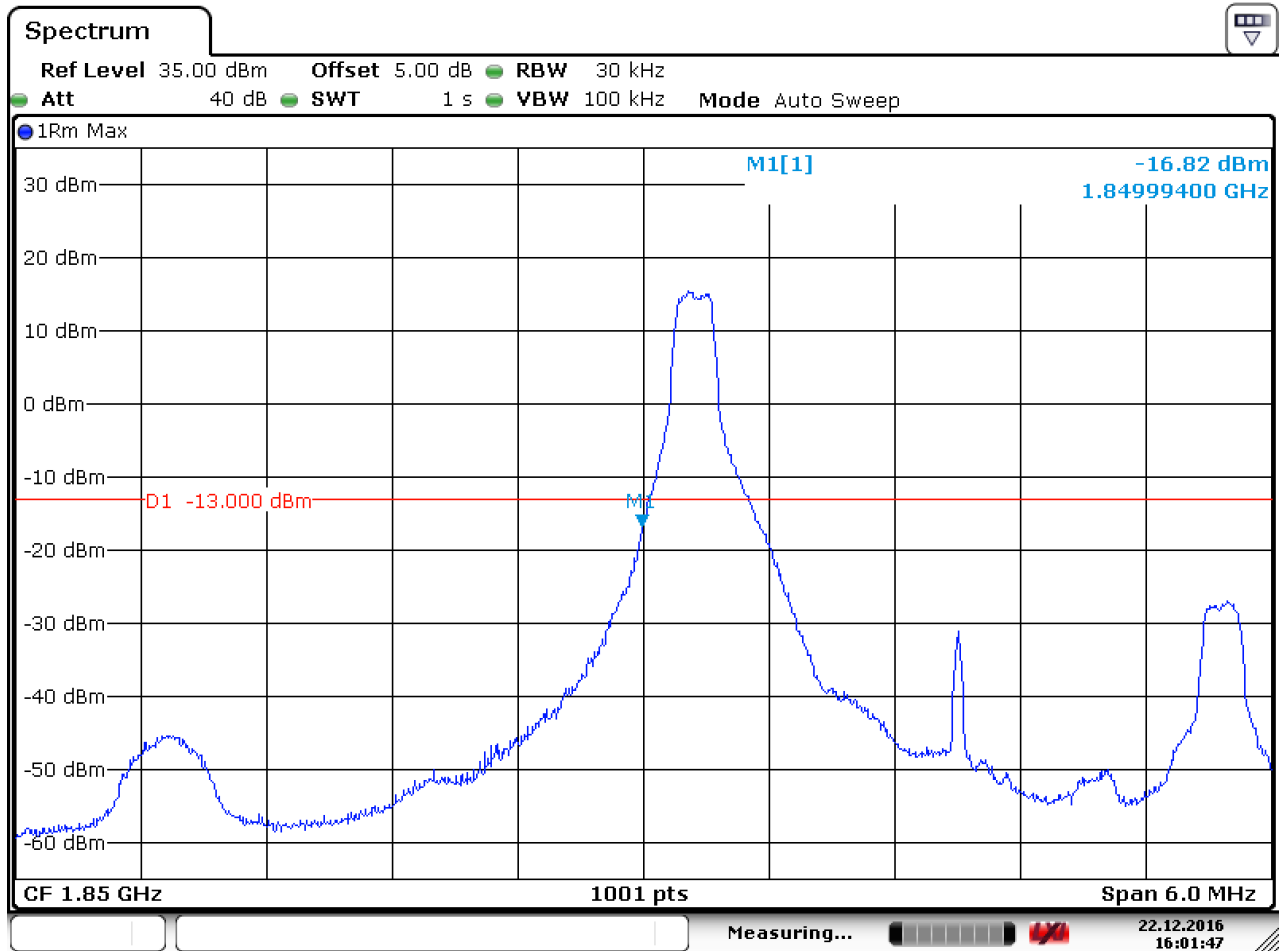
Date: 22.DEC.2016 15:59:45

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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**

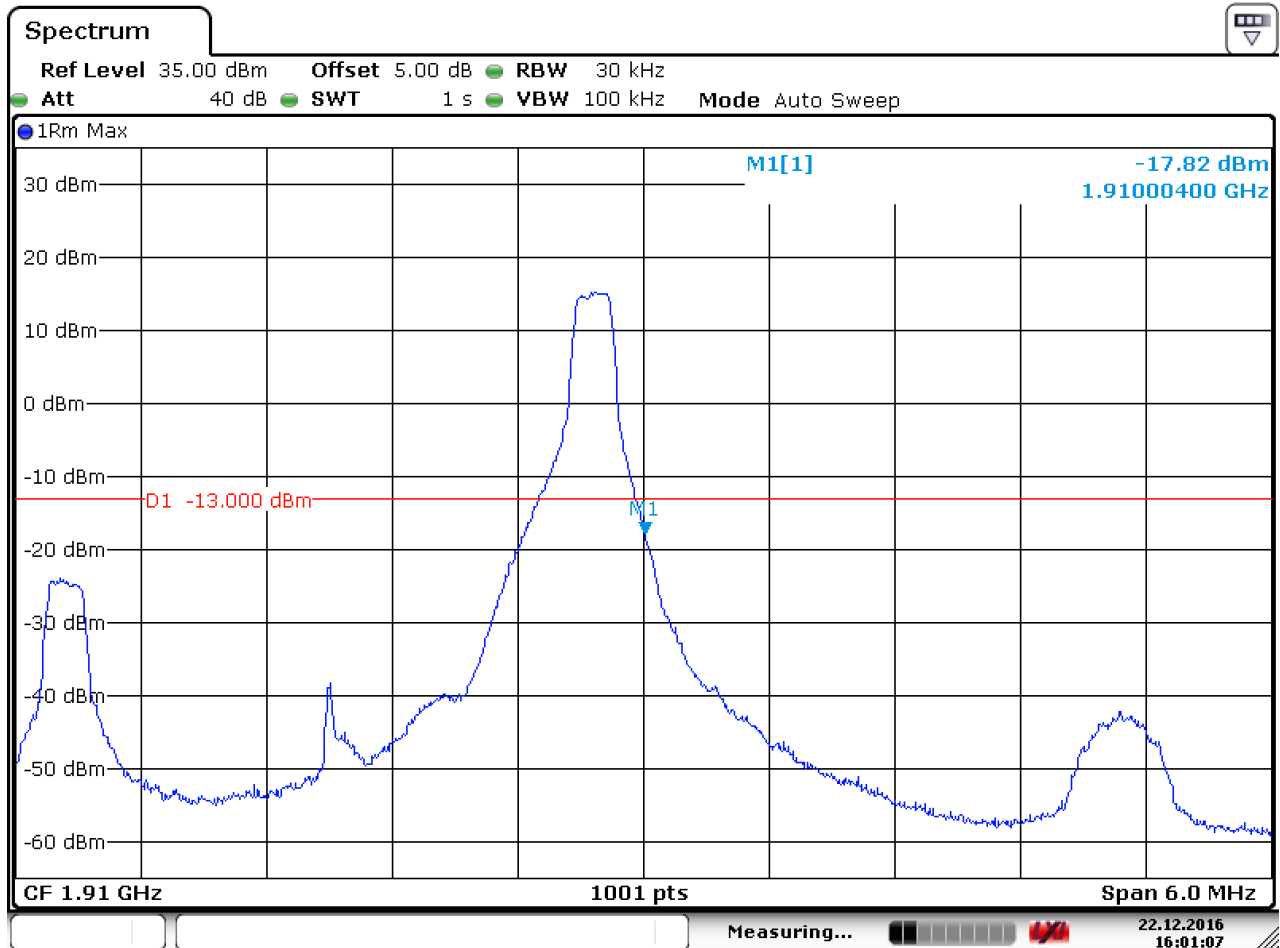


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**5.1.1.4.2 Test Channel = HCH**

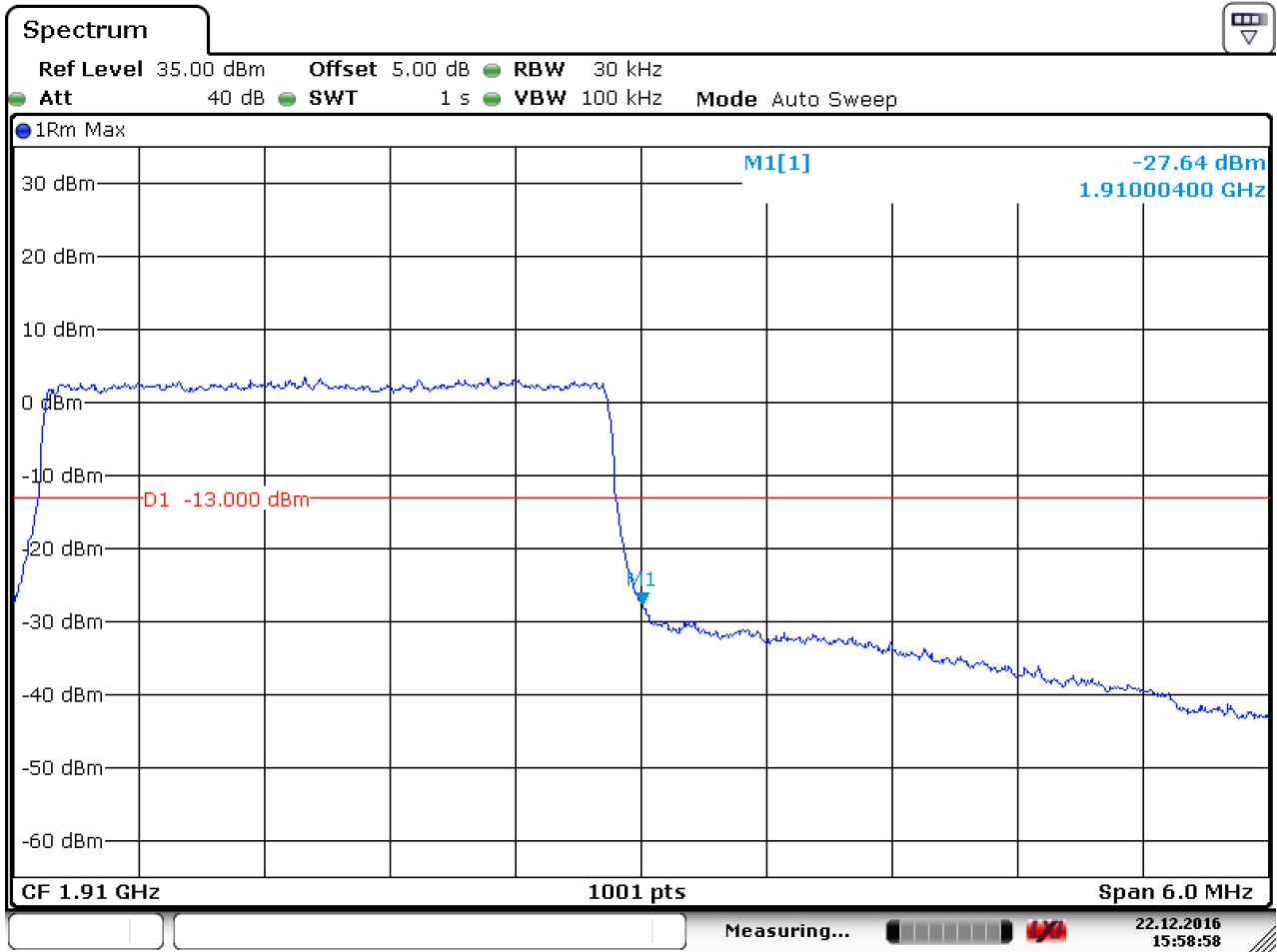
**5.1.1.4.2.1 Test RB=1RB**



Date: 22.DEC.2016 16:01:07



5.1.1.4.3 Test RB=15RB



Date: 22.DEC.2016 15:58:59

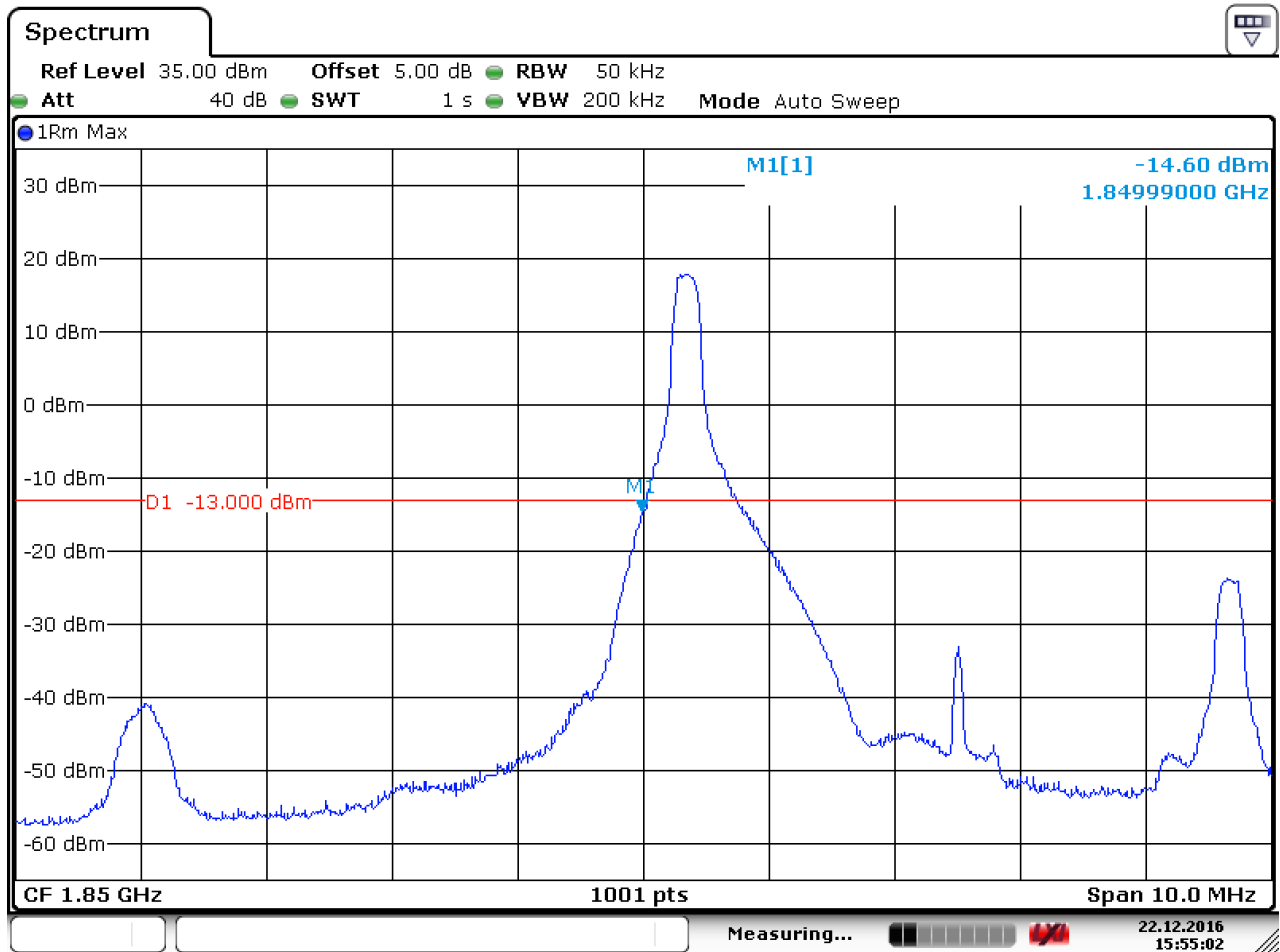
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5.1.1.5 Test Mode = LTE/TM1 5MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



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