



# Appendix B

## E-UTRA Band 25



## **CONTENT**

	Page
<b>1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....</b>	<b>3</b>
<b>2 PEAK-TO-AVERAGE RATIO .....</b>	<b>15</b>
2.1 FOR LTE .....	16
2.1.1 <i>Test Band = LTE band25</i> .....	16
<b>3 MODULATION CHARACTERISTICS .....</b>	<b>22</b>
3.1 FOR LTE .....	22
3.1.1 <i>Test Band = LTE band25</i> .....	22
<b>4 BANDWIDTH .....</b>	<b>34</b>
4.1 FOR LTE .....	35
4.1.1 <i>Test Band = LTE band25</i> .....	35
<b>5 BAND EDGES COMPLIANCE .....</b>	<b>71</b>
5.1 FOR LTE .....	71
5.1.1 <i>Test Band = LTE band25</i> .....	71
<b>6 SPURIOUS EMISSION AT ANTENNA TERMINAL.....</b>	<b>119</b>
6.1 FOR LTE .....	119
6.1.1 <i>Test Band = LTE band25</i> .....	119
<b>7 FIELD STRENGTH OF SPURIOUS RADIATION .....</b>	<b>174</b>
7.1 FOR LTE .....	174
7.1.1 <i>Test Band = LTE band25</i> .....	174
<b>8 FREQUENCY STABILITY .....</b>	<b>175</b>
8.1 FREQUENCY ERROR VS. VOLTAGE .....	175
8.2 FREQUENCY ERROR VS. TEMPERATURE .....	176



# 1 Effective (Isotropic) Radiated Power Output Data

## Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 25

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM1	1.4M	LCH	RB1#0	23.49	24.64	33.00	PASS
				RB1#2	23.68	24.83	33.00	PASS
				RB1#5	23.59	24.74	33.00	PASS
				RB3#0	23.47	24.62	33.00	PASS
				RB3#2	23.55	24.70	33.00	PASS
				RB3#3	23.59	24.74	33.00	PASS
				RB6#0	22.71	23.86	33.00	PASS
			MCH	RB1#0	23.67	24.82	33.00	PASS
				RB1#2	23.71	24.86	33.00	PASS
				RB1#5	23.51	24.66	33.00	PASS
				RB3#0	23.69	24.84	33.00	PASS
				RB3#2	23.64	24.79	33.00	PASS
				RB3#3	23.67	24.82	33.00	PASS
				RB6#0	22.74	23.89	33.00	PASS
			HCH	RB1#0	23.50	24.65	33.00	PASS
				RB1#2	23.60	24.75	33.00	PASS
				RB1#5	23.44	24.59	33.00	PASS
				RB3#0	23.53	24.68	33.00	PASS
				RB3#2	23.64	24.79	33.00	PASS
				RB3#3	23.58	24.73	33.00	PASS
				RB6#0	22.68	23.83	33.00	PASS



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

Report No.: SZEM170300261304

Page: 4 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM2	1.4M	LCH	RB1#0	22.50	23.65	33.00	PASS
				RB1#2	22.85	24.00	33.00	PASS
				RB1#5	22.93	24.08	33.00	PASS
				RB3#0	22.91	24.06	33.00	PASS
				RB3#2	22.75	23.90	33.00	PASS
				RB3#3	22.81	23.96	33.00	PASS
				RB6#0	21.64	22.79	33.00	PASS
			MCH	RB1#0	22.98	24.13	33.00	PASS
				RB1#2	22.90	24.05	33.00	PASS
				RB1#5	22.88	24.03	33.00	PASS
				RB3#0	22.92	24.07	33.00	PASS
				RB3#2	22.86	24.01	33.00	PASS
				RB3#3	22.92	24.07	33.00	PASS
				RB6#0	21.50	22.65	33.00	PASS
			HCH	RB1#0	22.76	23.91	33.00	PASS
				RB1#2	22.46	23.61	33.00	PASS
				RB1#5	22.47	23.62	33.00	PASS
				RB3#0	22.52	23.67	33.00	PASS
				RB3#2	22.67	23.82	33.00	PASS
				RB3#3	22.91	24.06	33.00	PASS
				RB6#0	21.44	22.59	33.00	PASS



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

Report No.: SZEM170300261304

Page: 5 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM1	3M	LCH	RB1#0	23.71	24.86	33.00	PASS
				RB1#7	23.64	24.79	33.00	PASS
				RB1#14	23.64	24.79	33.00	PASS
				RB8#0	22.75	23.90	33.00	PASS
				RB8#4	22.65	23.80	33.00	PASS
				RB8#7	22.75	23.90	33.00	PASS
				RB15#0	22.63	23.78	33.00	PASS
			MCH	RB1#0	23.77	24.92	33.00	PASS
				RB1#7	23.70	24.85	33.00	PASS
				RB1#14	23.84	24.99	33.00	PASS
				RB8#0	22.70	23.85	33.00	PASS
				RB8#4	22.77	23.92	33.00	PASS
				RB8#7	22.71	23.86	33.00	PASS
				RB15#0	22.71	23.86	33.00	PASS
			HCH	RB1#0	23.81	24.96	33.00	PASS
				RB1#7	23.61	24.76	33.00	PASS
				RB1#14	23.70	24.85	33.00	PASS
				RB8#0	22.79	23.94	33.00	PASS
				RB8#4	22.77	23.92	33.00	PASS
				RB8#7	22.75	23.90	33.00	PASS
				RB15#0	22.69	23.84	33.00	PASS



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

Report No.: SZEM170300261304

Page: 6 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM2	3M	LCH	RB1#0	22.97	24.12	33.00	PASS
				RB1#7	22.93	24.08	33.00	PASS
				RB1#14	22.97	24.12	33.00	PASS
				RB8#0	21.86	23.01	33.00	PASS
				RB8#4	21.73	22.88	33.00	PASS
				RB8#7	21.84	22.99	33.00	PASS
				RB15#0	21.79	22.94	33.00	PASS
			MCH	RB1#0	23.08	24.23	33.00	PASS
				RB1#7	22.83	23.98	33.00	PASS
				RB1#14	23.03	24.18	33.00	PASS
				RB8#0	21.85	23.00	33.00	PASS
				RB8#4	21.91	23.06	33.00	PASS
				RB8#7	21.84	22.99	33.00	PASS
				RB15#0	21.91	23.06	33.00	PASS
			HCH	RB1#0	23.36	24.51	33.00	PASS
				RB1#7	22.95	24.10	33.00	PASS
				RB1#14	22.76	23.91	33.00	PASS
				RB8#0	21.96	23.11	33.00	PASS
				RB8#4	21.94	23.09	33.00	PASS
				RB8#7	21.89	23.04	33.00	PASS
				RB15#0	21.79	22.94	33.00	PASS



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

Report No.: SZEM170300261304

Page: 7 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM1	5M	LCH	RB1#0	23.62	24.77	33.00	PASS
				RB1#13	23.48	24.63	33.00	PASS
				RB1#24	23.43	24.58	33.00	PASS
				RB12#0	22.58	23.73	33.00	PASS
				RB12#6	22.60	23.75	33.00	PASS
				RB12#13	22.58	23.73	33.00	PASS
				RB25#0	22.57	23.72	33.00	PASS
			MCH	RB1#0	23.72	24.87	33.00	PASS
				RB1#13	23.42	24.57	33.00	PASS
				RB1#24	23.52	24.67	33.00	PASS
				RB12#0	22.71	23.86	33.00	PASS
				RB12#6	22.75	23.90	33.00	PASS
				RB12#13	22.73	23.88	33.00	PASS
				RB25#0	22.71	23.86	33.00	PASS
			HCH	RB1#0	23.43	24.58	33.00	PASS
				RB1#13	23.43	24.58	33.00	PASS
				RB1#24	23.36	24.51	33.00	PASS
				RB12#0	22.74	23.89	33.00	PASS
				RB12#6	22.63	23.78	33.00	PASS
				RB12#13	22.57	23.72	33.00	PASS
				RB25#0	22.68	23.83	33.00	PASS



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

Report No.: SZEM170300261304

Page: 8 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM2	5M	LCH	RB1#0	22.97	24.12	33.00	PASS
				RB1#13	22.81	23.96	33.00	PASS
				RB1#24	22.80	23.95	33.00	PASS
				RB12#0	21.66	22.81	33.00	PASS
				RB12#6	21.60	22.75	33.00	PASS
				RB12#13	21.45	22.60	33.00	PASS
				RB25#0	21.74	22.89	33.00	PASS
			MCH	RB1#0	23.02	24.17	33.00	PASS
				RB1#13	22.87	24.02	33.00	PASS
				RB1#24	22.96	24.11	33.00	PASS
				RB12#0	21.81	22.96	33.00	PASS
				RB12#6	21.72	22.87	33.00	PASS
				RB12#13	21.66	22.81	33.00	PASS
				RB25#0	21.89	23.04	33.00	PASS
			HCH	RB1#0	23.00	24.15	33.00	PASS
				RB1#13	22.89	24.04	33.00	PASS
				RB1#24	22.32	23.47	33.00	PASS
				RB12#0	21.74	22.89	33.00	PASS
				RB12#6	21.73	22.88	33.00	PASS
				RB12#13	21.64	22.79	33.00	PASS
				RB25#0	21.71	22.86	33.00	PASS





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

Report No.: SZEM170300261304

Page: 9 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM1	10M	LCH	RB1#0	23.65	24.80	33.00	PASS
				RB1#25	23.44	24.59	33.00	PASS
				RB1#49	23.36	24.51	33.00	PASS
				RB25#0	22.70	23.85	33.00	PASS
				RB25#13	22.55	23.70	33.00	PASS
				RB25#25	22.52	23.67	33.00	PASS
				RB50#0	22.58	23.73	33.00	PASS
			MCH	RB1#0	23.77	24.92	33.00	PASS
				RB1#25	23.64	24.79	33.00	PASS
				RB1#49	23.94	25.09	33.00	PASS
				RB25#0	22.83	23.98	33.00	PASS
				RB25#13	22.82	23.97	33.00	PASS
				RB25#25	22.73	23.88	33.00	PASS
				RB50#0	22.79	23.94	33.00	PASS
			HCH	RB1#0	23.76	24.91	33.00	PASS
				RB1#25	23.50	24.65	33.00	PASS
				RB1#49	23.47	24.62	33.00	PASS
				RB25#0	22.85	24.00	33.00	PASS
				RB25#13	22.71	23.86	33.00	PASS
				RB25#25	22.74	23.89	33.00	PASS
				RB50#0	22.72	23.87	33.00	PASS



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

Report No.: SZEM170300261304

Page: 10 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM2	10M	LCH	RB1#0	22.96	24.11	33.00	PASS
				RB1#25	22.69	23.84	33.00	PASS
				RB1#49	22.73	23.88	33.00	PASS
				RB25#0	21.63	22.78	33.00	PASS
				RB25#13	21.56	22.71	33.00	PASS
				RB25#25	21.43	22.58	33.00	PASS
				RB50#0	21.60	22.75	33.00	PASS
			MCH	RB1#0	23.06	24.21	33.00	PASS
				RB1#25	23.01	24.16	33.00	PASS
				RB1#49	23.10	24.25	33.00	PASS
				RB25#0	21.76	22.91	33.00	PASS
				RB25#13	21.85	23.00	33.00	PASS
				RB25#25	21.76	22.91	33.00	PASS
				RB50#0	21.89	23.04	33.00	PASS
			HCH	RB1#0	23.18	24.33	33.00	PASS
				RB1#25	23.14	24.29	33.00	PASS
				RB1#49	22.54	23.69	33.00	PASS
				RB25#0	21.90	23.05	33.00	PASS
				RB25#13	21.60	22.75	33.00	PASS
				RB25#25	21.69	22.84	33.00	PASS
				RB50#0	21.71	22.86	33.00	PASS



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

Report No.: SZEM170300261304

Page: 11 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM1	15M	LCH	RB1#0	24.08	25.23	33.00	PASS
				RB1#38	23.41	24.56	33.00	PASS
				RB1#74	23.57	24.72	33.00	PASS
				RB36#0	22.73	23.88	33.00	PASS
				RB36#18	22.49	23.64	33.00	PASS
				RB36#39	22.53	23.68	33.00	PASS
				RB75#0	22.68	23.83	33.00	PASS
			MCH	RB1#0	23.99	25.14	33.00	PASS
				RB1#38	23.48	24.63	33.00	PASS
				RB1#74	24.17	25.32	33.00	PASS
				RB36#0	22.72	23.87	33.00	PASS
				RB36#18	22.77	23.92	33.00	PASS
				RB36#39	22.80	23.95	33.00	PASS
				RB75#0	22.75	23.90	33.00	PASS
			HCH	RB1#0	24.00	25.15	33.00	PASS
				RB1#38	23.67	24.82	33.00	PASS
				RB1#74	23.52	24.67	33.00	PASS
				RB36#0	22.84	23.99	33.00	PASS
				RB36#18	22.68	23.83	33.00	PASS
				RB36#39	22.70	23.85	33.00	PASS
				RB75#0	22.74	23.89	33.00	PASS



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

Report No.: SZEM170300261304

Page: 12 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM2	15M	LCH	RB1#0	23.10	24.25	33.00	PASS
				RB1#38	22.80	23.95	33.00	PASS
				RB1#74	22.79	23.94	33.00	PASS
				RB36#0	21.71	22.86	33.00	PASS
				RB36#18	21.43	22.58	33.00	PASS
				RB36#39	21.48	22.63	33.00	PASS
				RB75#0	21.66	22.81	33.00	PASS
			MCH	RB1#0	23.11	24.26	33.00	PASS
				RB1#38	22.89	24.04	33.00	PASS
				RB1#74	23.14	24.29	33.00	PASS
				RB36#0	21.80	22.95	33.00	PASS
				RB36#18	21.50	22.65	33.00	PASS
				RB36#39	21.85	23.00	33.00	PASS
				RB75#0	21.81	22.96	33.00	PASS
			HCH	RB1#0	23.23	24.38	33.00	PASS
				RB1#38	22.89	24.04	33.00	PASS
				RB1#74	22.78	23.93	33.00	PASS
				RB36#0	21.92	23.07	33.00	PASS
				RB36#18	21.85	23.00	33.00	PASS
				RB36#39	21.73	22.88	33.00	PASS
				RB75#0	21.88	23.03	33.00	PASS



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

Report No.: SZEM170300261304

Page: 13 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM1	20M	LCH	RB1#0	23.92	25.07	33.00	PASS
				RB1#50	23.61	24.76	33.00	PASS
				RB1#99	23.42	24.57	33.00	PASS
				RB50#0	22.70	23.85	33.00	PASS
				RB50#25	22.67	23.82	33.00	PASS
				RB50#50	22.66	23.81	33.00	PASS
				RB100#0	22.77	23.92	33.00	PASS
			MCH	RB1#0	23.95	25.10	33.00	PASS
				RB1#50	23.70	24.85	33.00	PASS
				RB1#99	23.94	25.09	33.00	PASS
				RB50#0	22.77	23.92	33.00	PASS
				RB50#25	22.75	23.90	33.00	PASS
				RB50#50	22.68	23.83	33.00	PASS
				RB100#0	22.74	23.89	33.00	PASS
			HCH	RB1#0	24.16	25.31	33.00	PASS
				RB1#50	23.62	24.77	33.00	PASS
				RB1#99	23.74	24.89	33.00	PASS
				RB50#0	22.89	24.04	33.00	PASS
				RB50#25	22.66	23.81	33.00	PASS
				RB50#50	22.72	23.87	33.00	PASS
				RB100#0	22.79	23.94	33.00	PASS



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

Report No.: SZEM170300261304

Page: 14 of 177

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND25	LTE/TM2	20M	LCH	RB1#0	23.22	24.37	33.00	PASS
				RB1#50	22.96	24.11	33.00	PASS
				RB1#99	22.82	23.97	33.00	PASS
				RB50#0	21.99	23.14	33.00	PASS
				RB50#25	21.90	23.05	33.00	PASS
				RB50#50	21.73	22.88	33.00	PASS
				RB100#0	21.87	23.02	33.00	PASS
			MCH	RB1#0	23.01	24.16	33.00	PASS
				RB1#50	22.93	24.08	33.00	PASS
				RB1#99	23.17	24.32	33.00	PASS
				RB50#0	21.83	22.98	33.00	PASS
				RB50#25	21.68	22.83	33.00	PASS
				RB50#50	21.80	22.95	33.00	PASS
				RB100#0	21.85	23.00	33.00	PASS
			HCH	RB1#0	23.42	24.57	33.00	PASS
				RB1#50	22.89	24.04	33.00	PASS
				RB1#99	23.01	24.16	33.00	PASS
				RB50#0	21.94	23.09	33.00	PASS
				RB50#25	21.80	22.95	33.00	PASS
				RB50#50	21.74	22.89	33.00	PASS
				RB100#0	21.83	22.98	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



## 2 Peak-to-Average Ratio

### Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 25	TM1/20M	LCH	4.43	13	PASS
		MCH	4.58	13	PASS
		HCH	4.38	13	PASS
	TM2/20M	LCH	5.30	13	PASS
		MCH	5.48	13	PASS
		HCH	5.33	13	PASS



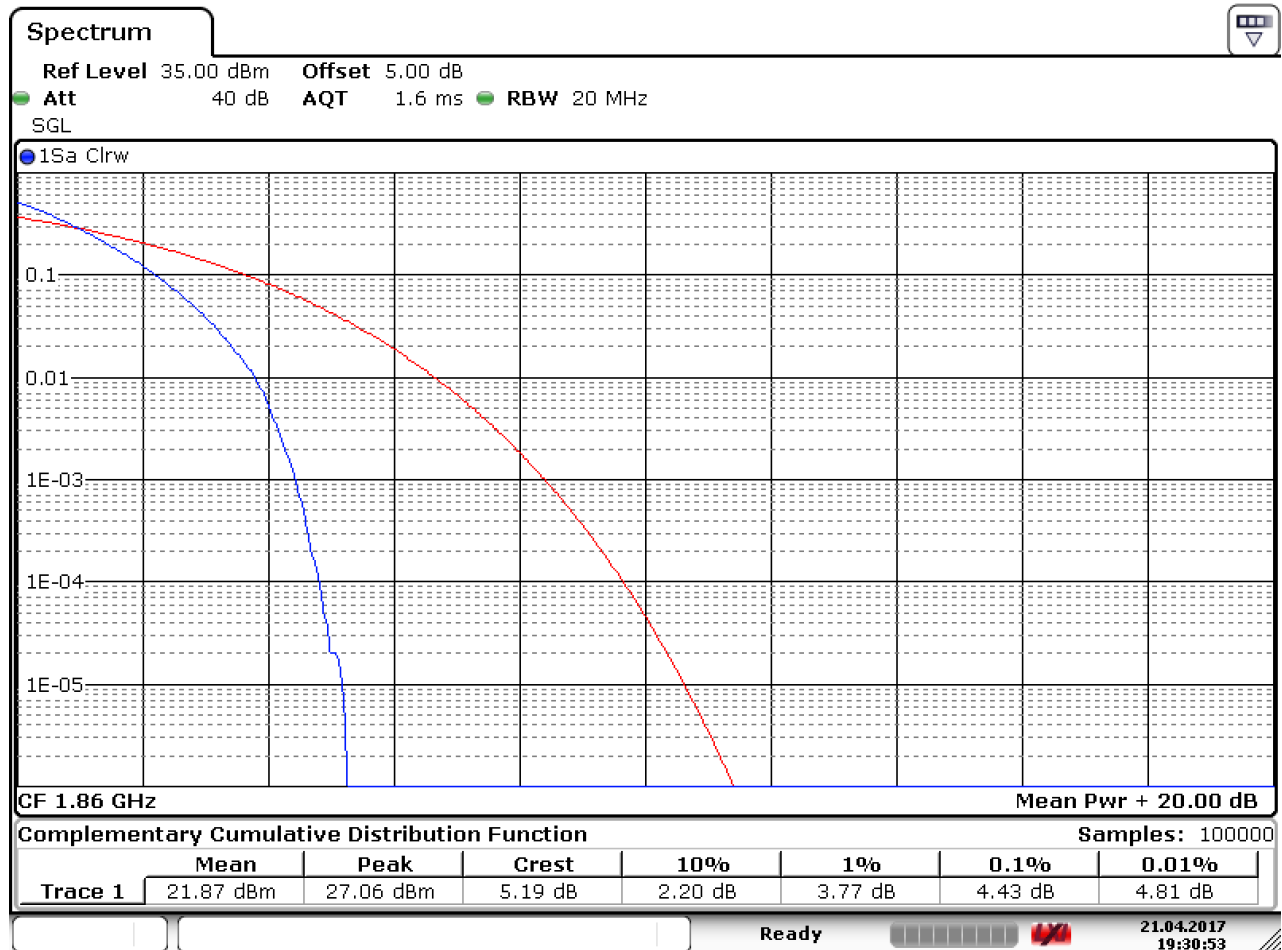
**Part II - Test Plots**

**2.1 For LTE**

**2.1.1 Test Band = LTE band25**

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

**2.1.1.1.1 Test Channel = LCH**

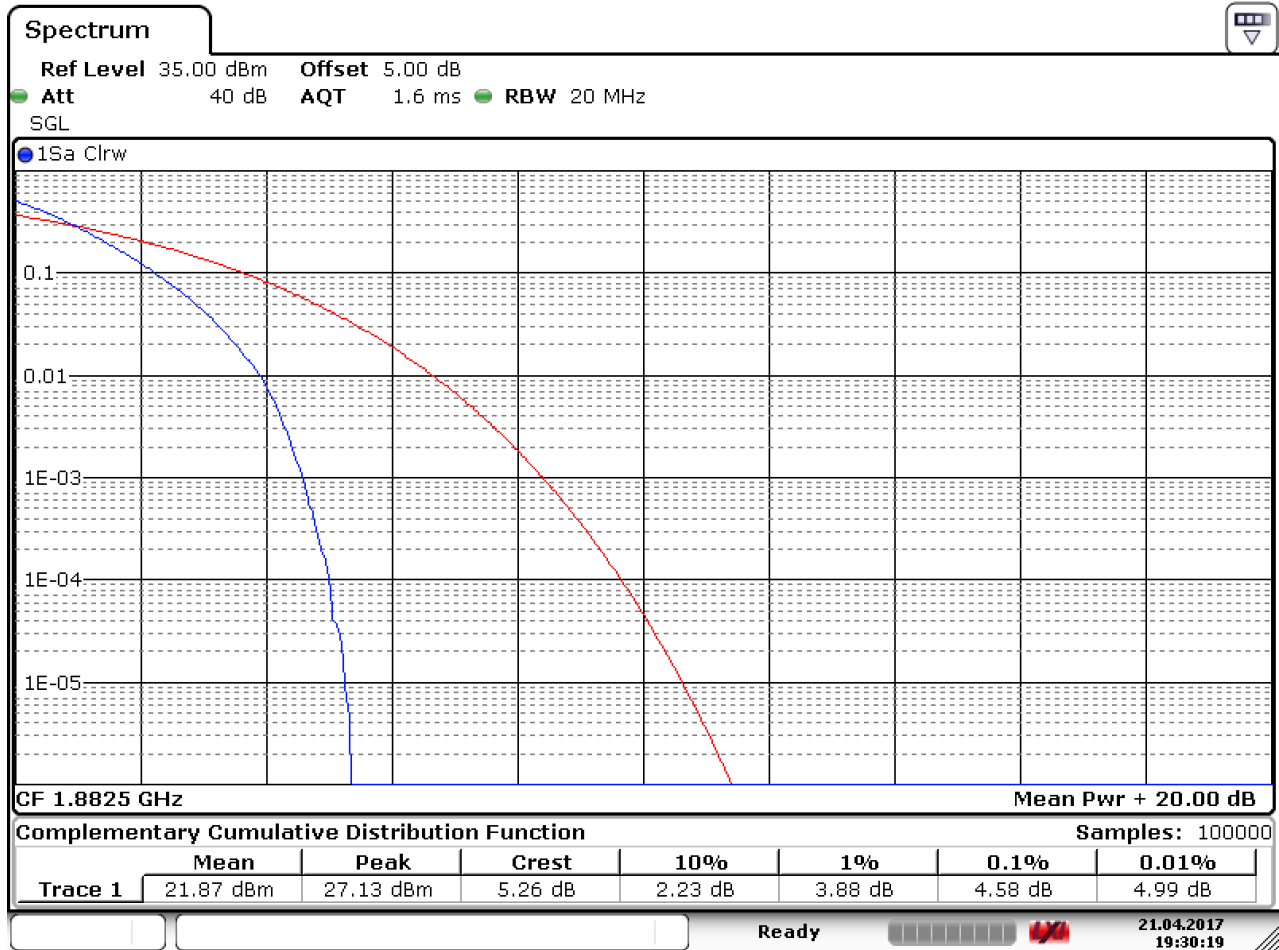


Date: 21.APR.2017 19:30:53





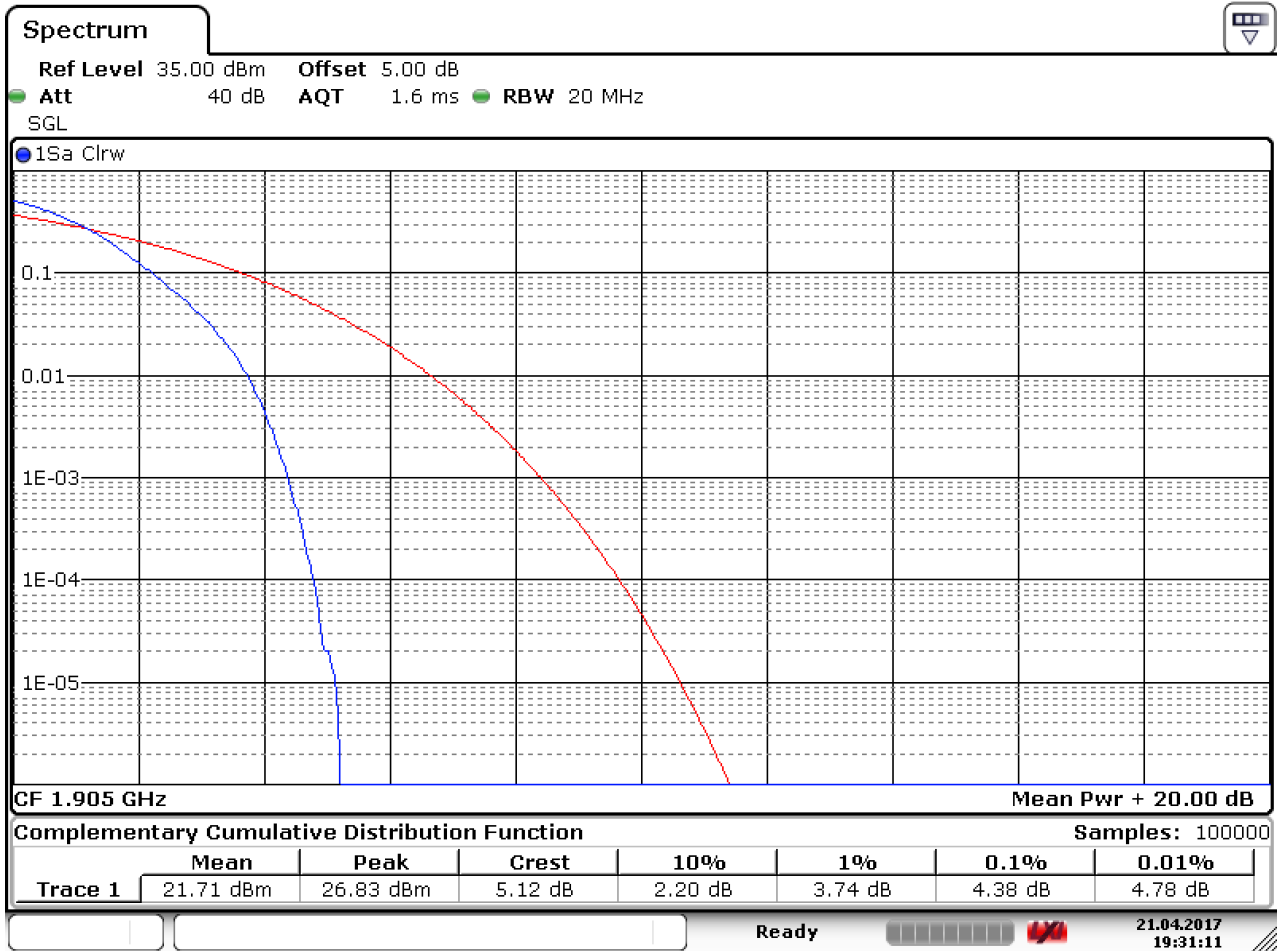
2.1.1.1.2 Test Channel = MCH



Date: 21.APR.2017 19:30:18



2.1.1.1.3 Test Channel = HCH

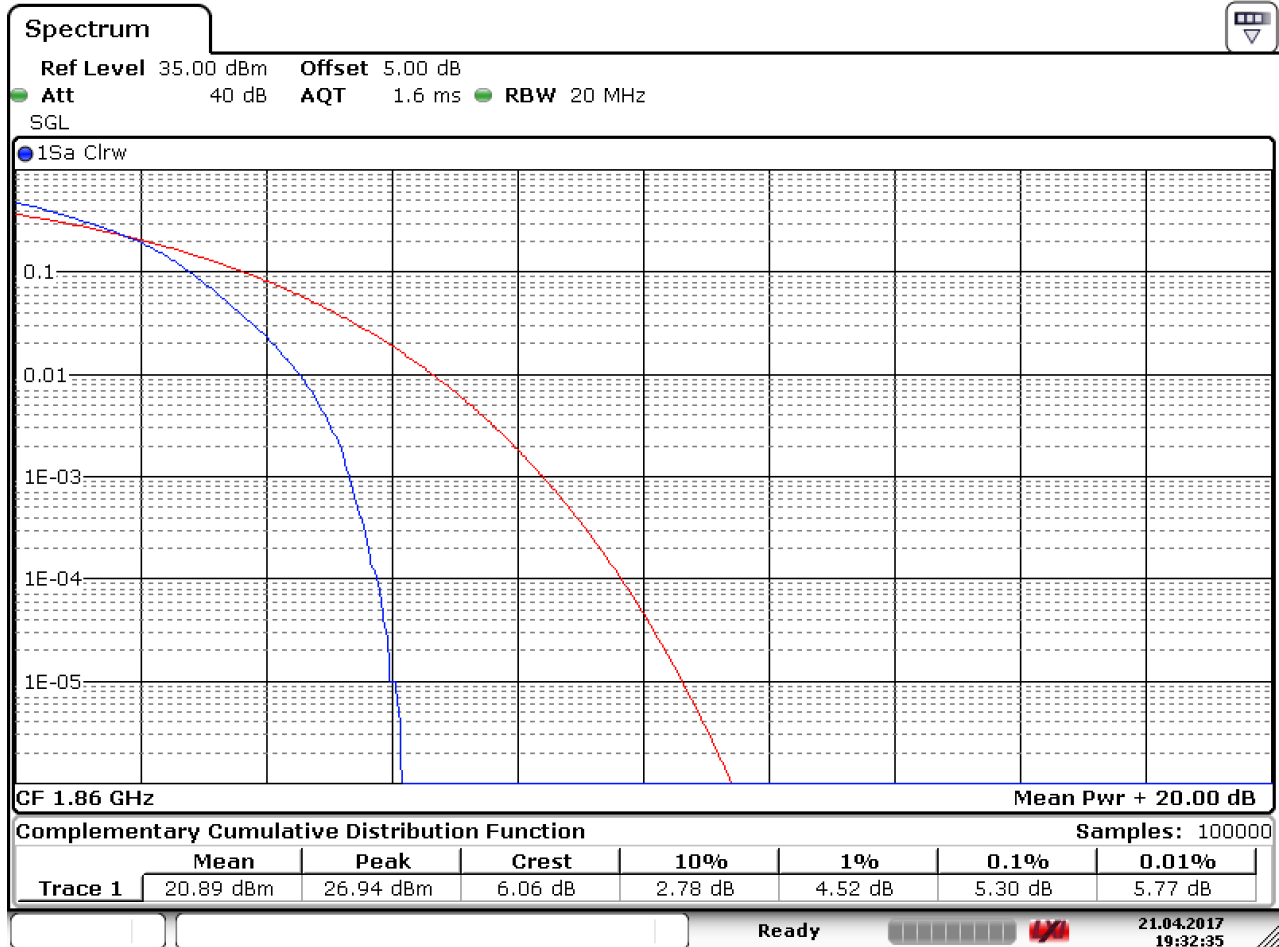


Date: 21.APR.2017 19:31:12



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

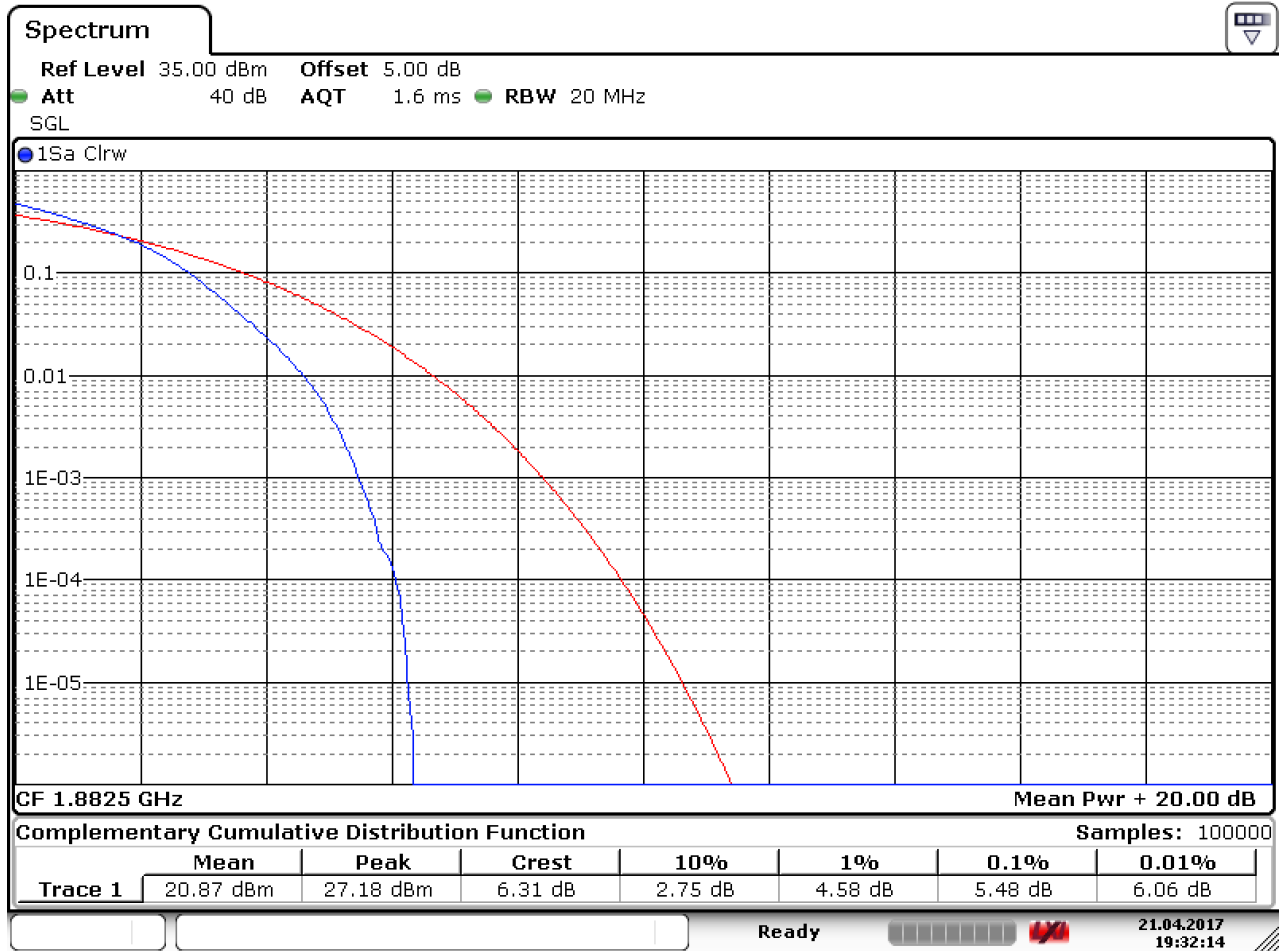
**2.1.1.2.1 Test Channel = LCH**



Date: 21.APR.2017 19:32:36



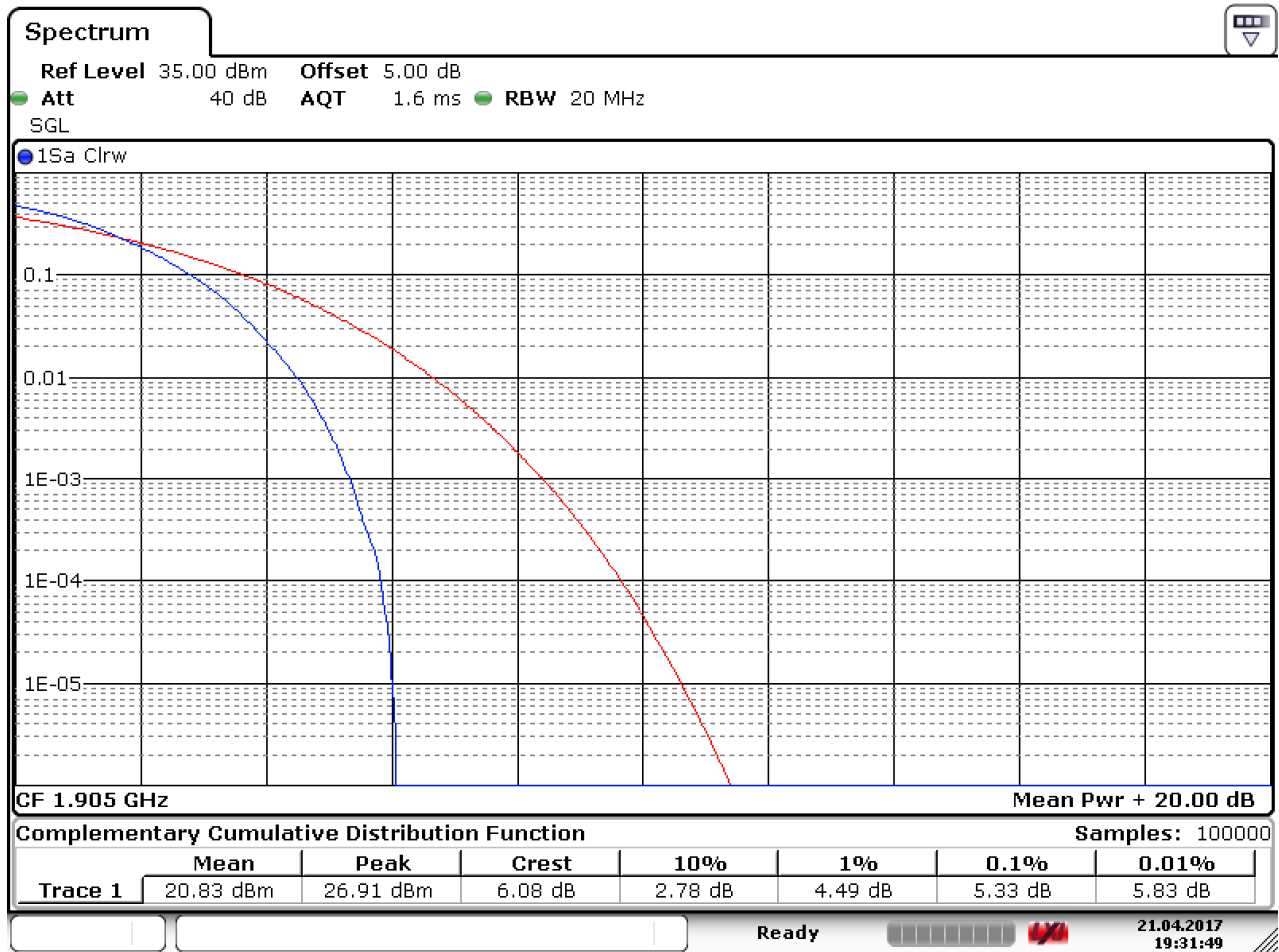
2.1.1.2.2 Test Channel = MCH



Date: 21.APR.2017 19:32:14



2.1.1.2.3 Test Channel = HCH



Date: 21.APR.2017 19:31:49

### 3 Modulation Characteristics

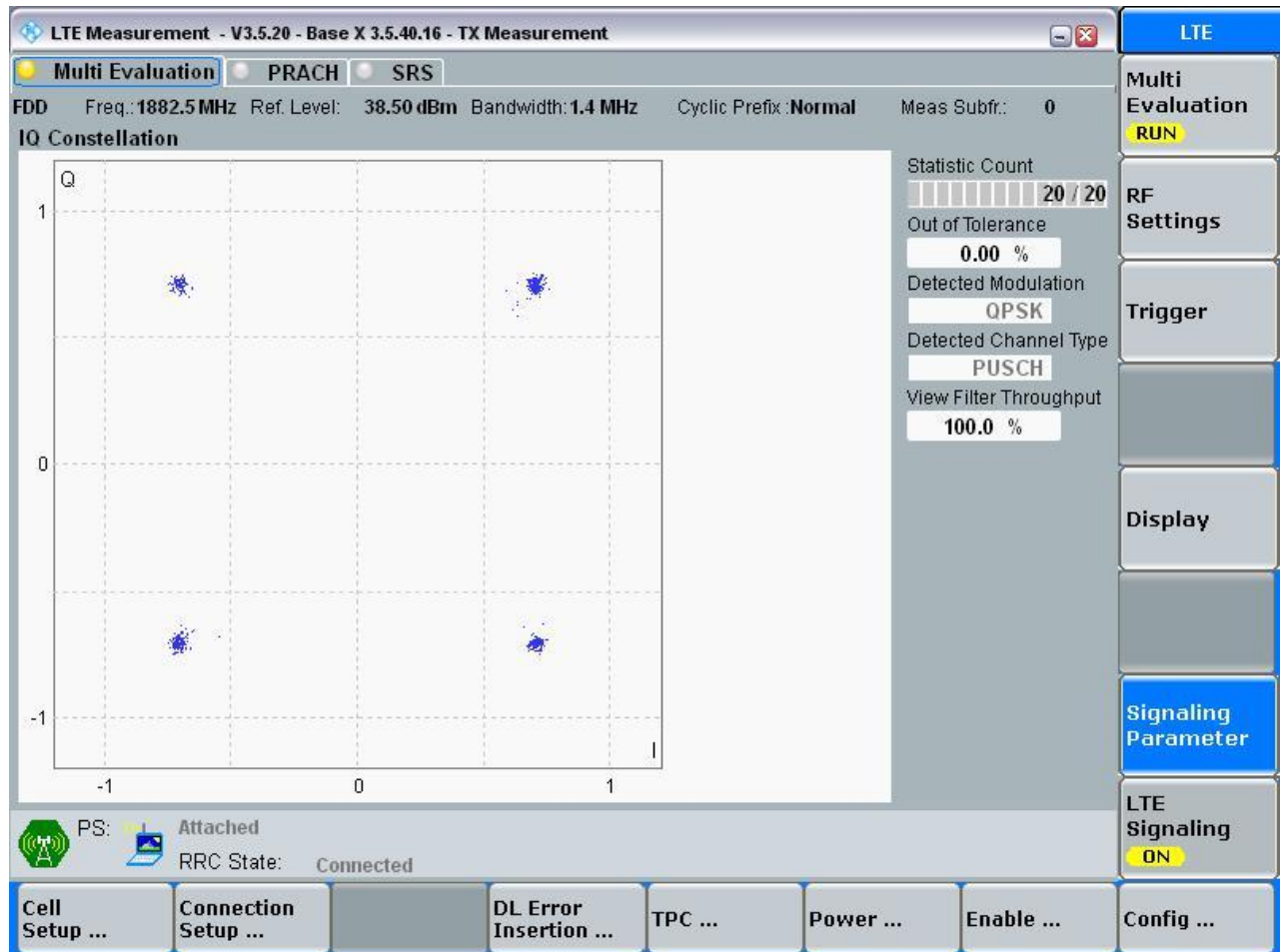
Part I - Test Plots

#### 3.1 For LTE

##### 3.1.1 Test Band = LTE band25

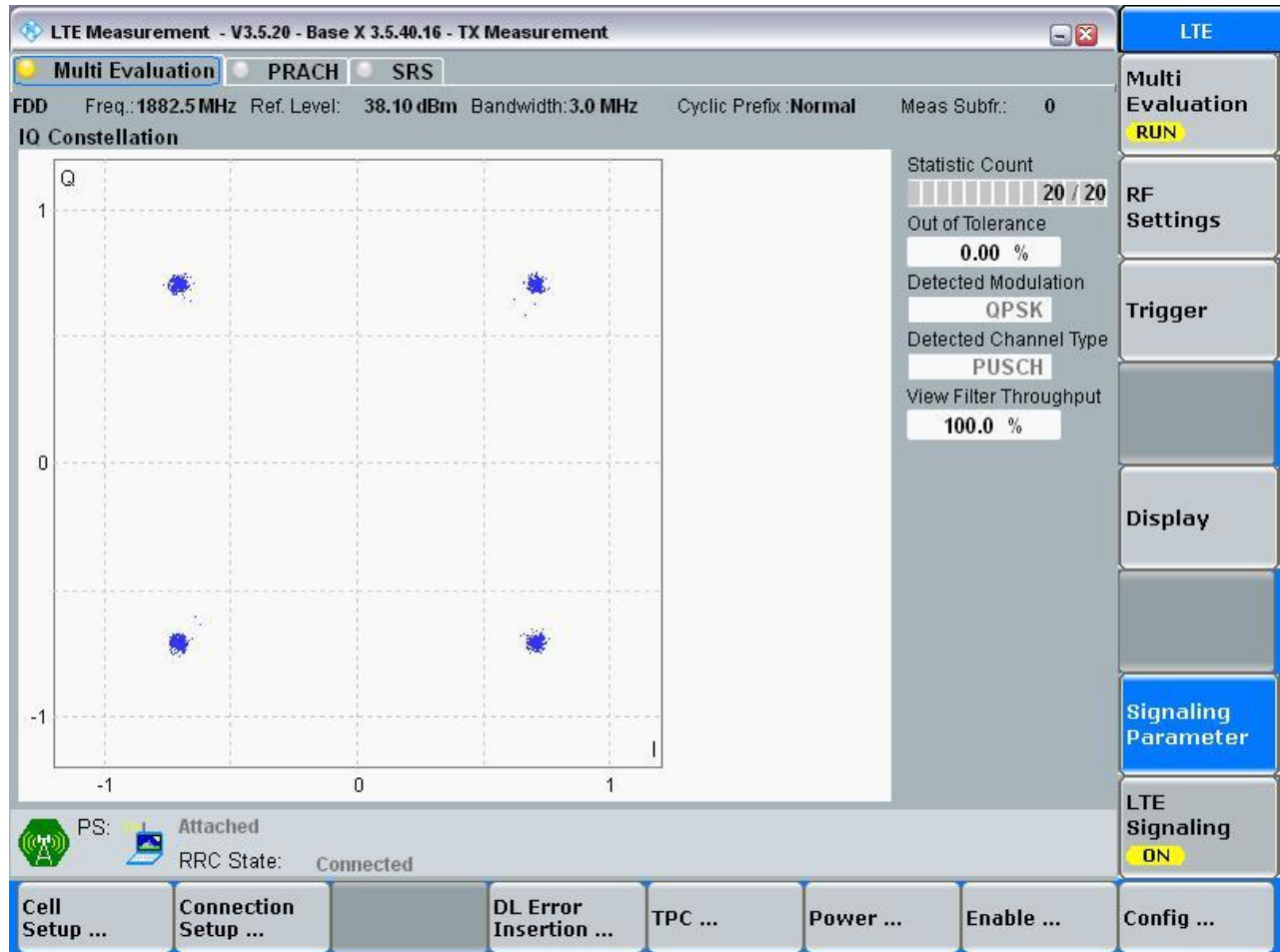
##### 3.1.1.1 Test Mode = LTE /TM1 1.4MHz

##### 3.1.1.1.1 Test Channel = MCH



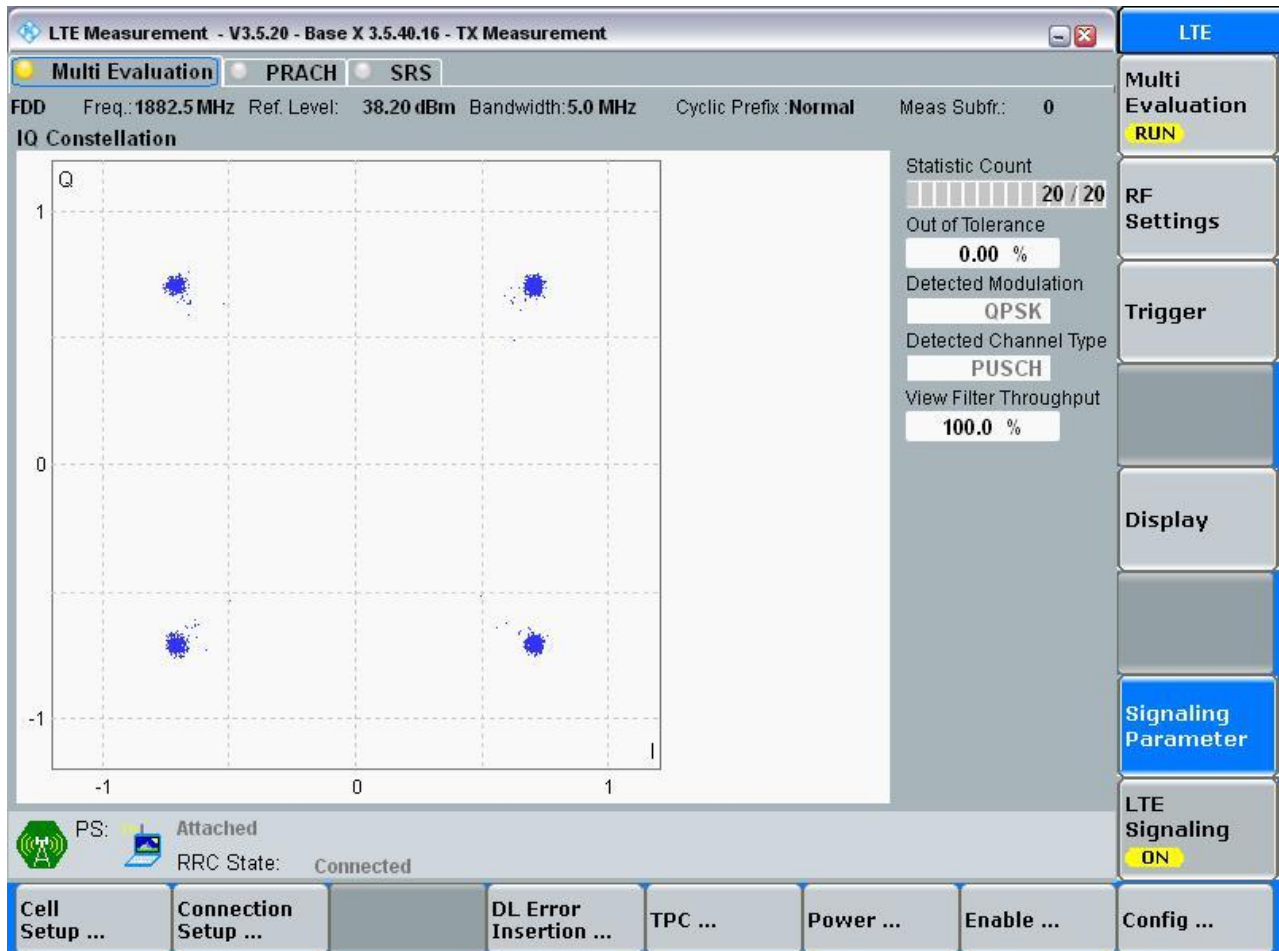
**3.1.1.2 Test Mode = LTE /TM1 3MHz**

**3.1.1.2.1 Test Channel = MCH**



**3.1.1.3 Test Mode = LTE /TM1 5MHz**

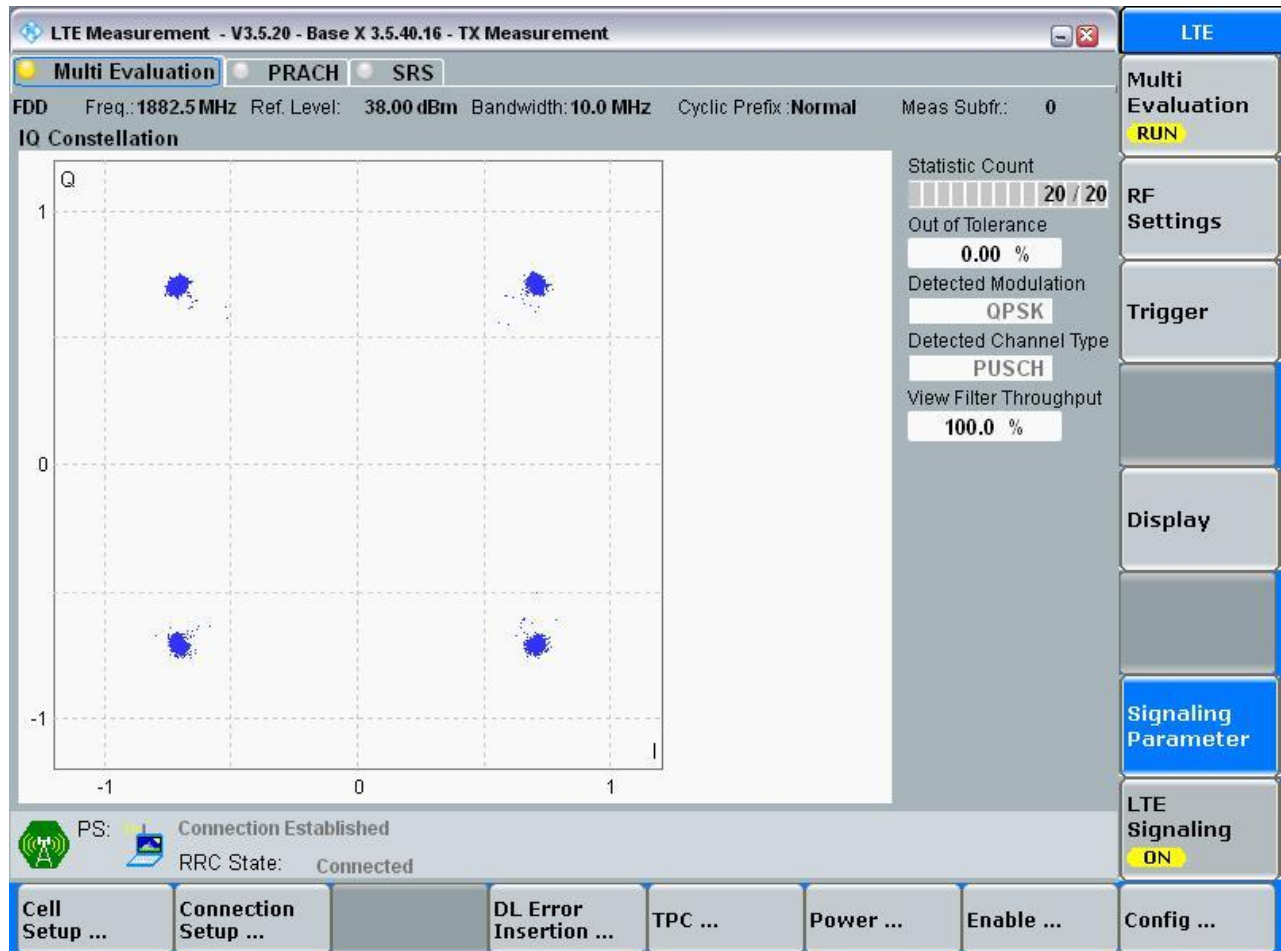
**3.1.1.3.1 Test Channel = MCH**





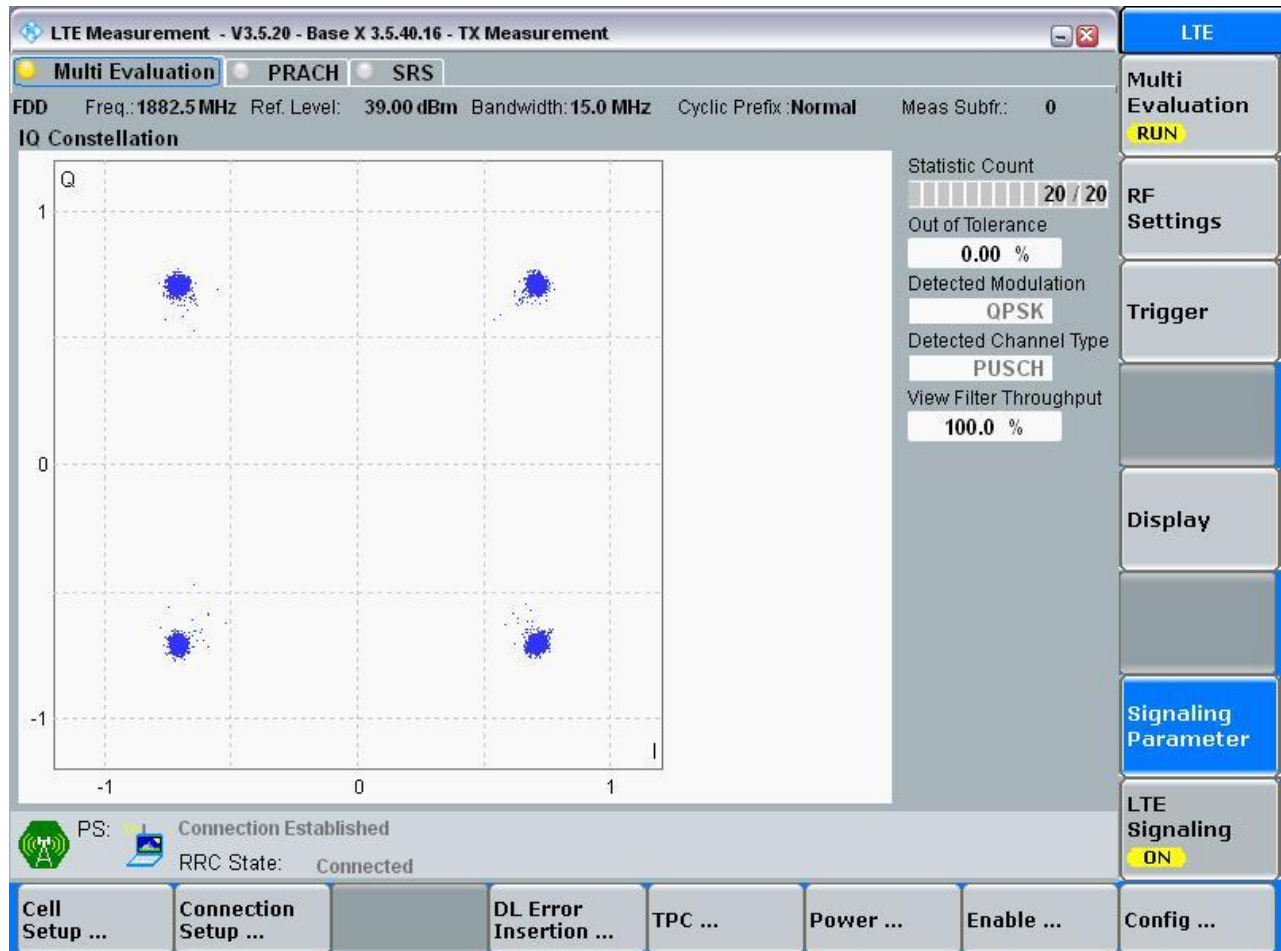
**3.1.1.4 Test Mode = LTE /TM1 10MHz**

**3.1.1.4.1 Test Channel = MCH**



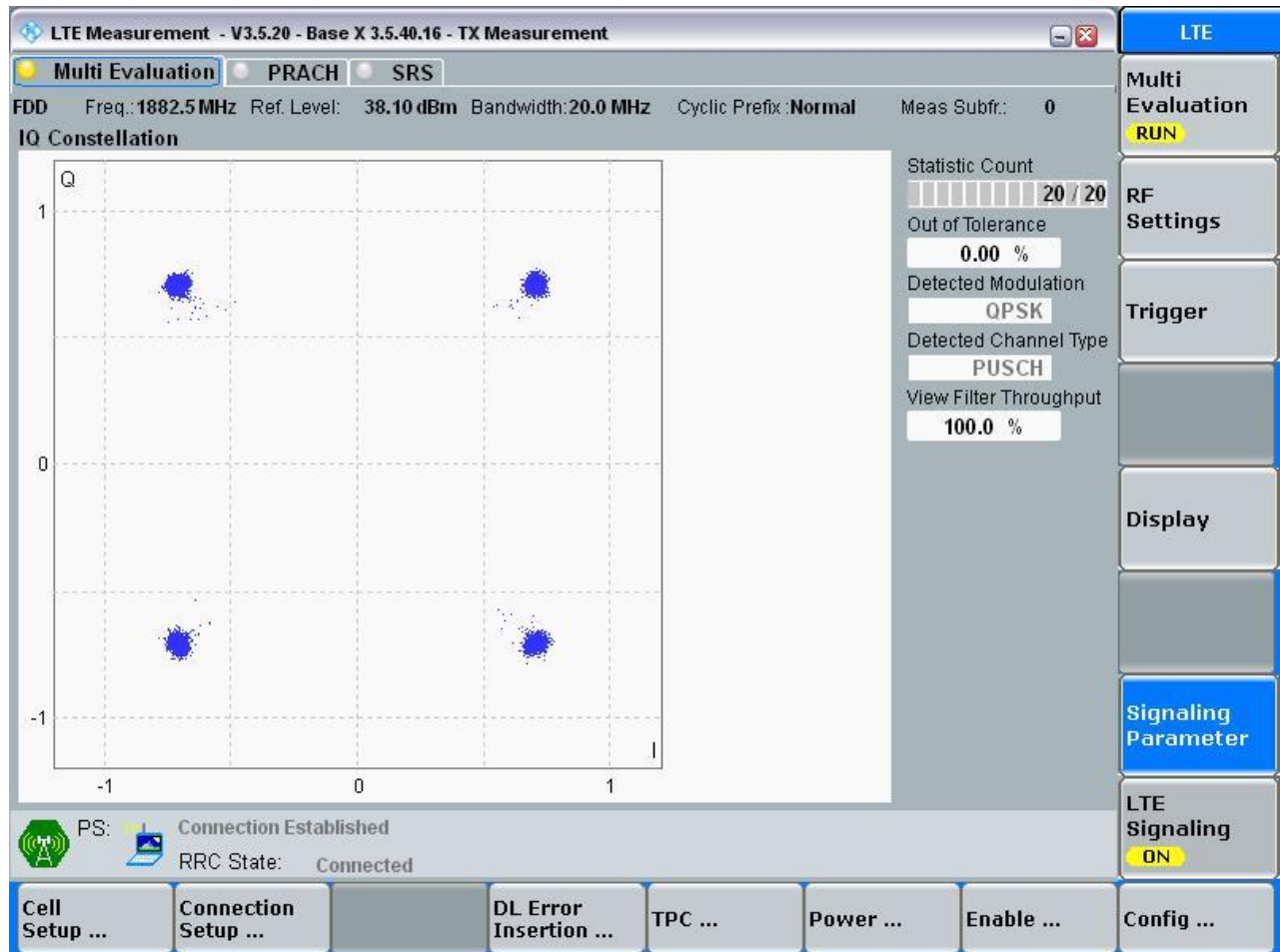
**3.1.1.5 Test Mode = LTE /TM1 15MHz**

**3.1.1.5.1 Test Channel = MCH**

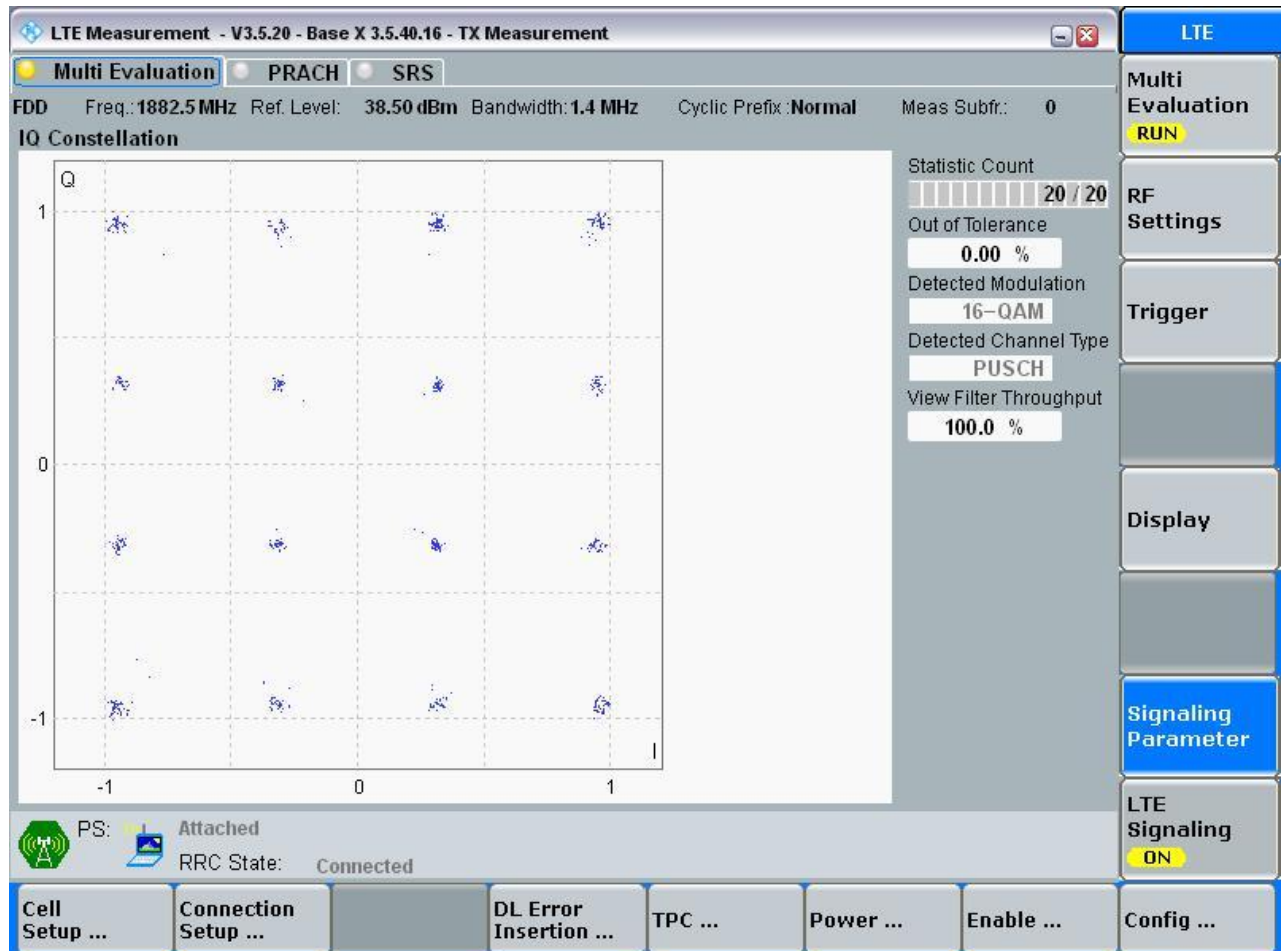


**3.1.1.6 Test Mode = LTE /TM1 20MHz**

**3.1.1.6.1 Test Channel = MCH**



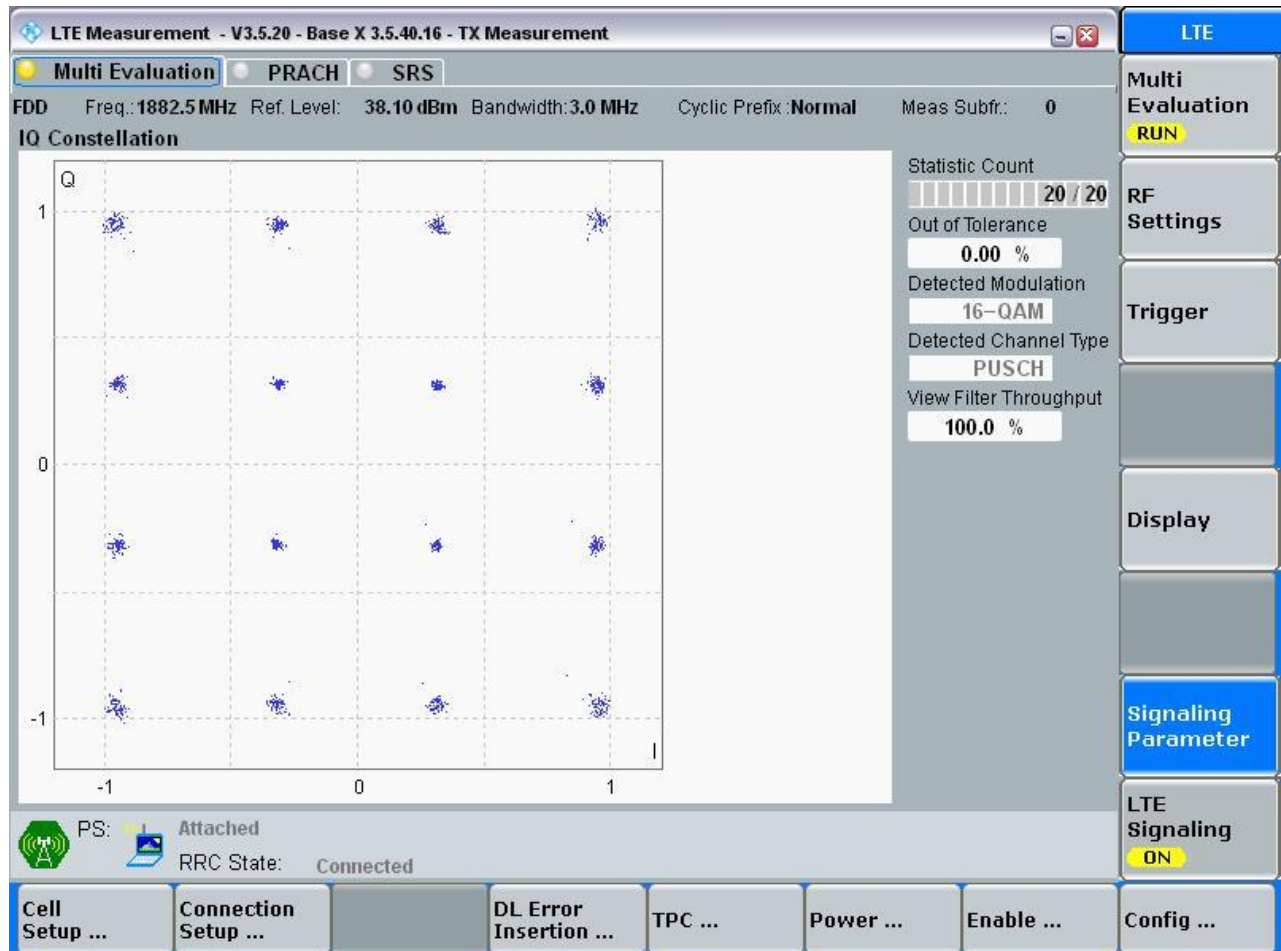
**3.1.1.7 Test Mode = LTE /TM2 1.4MHz**  
**3.1.1.7.1 Test Channel = MCH**



The screenshot displays the 'LTE Measurement - V3.5.20 - Base X 3.5.40.16 - TX Measurement' window. The interface includes a top navigation bar with 'Multi Evaluation', 'PRACH', and 'SRS' tabs. Below this, measurement parameters are listed: FDD, Freq.: 1882.5 MHz, Ref. Level: 38.50 dBm, Bandwidth: 1.4 MHz, Cyclic Prefix: Normal, and Meas Subfr.: 0. The main area features an 'IQ Constellation' plot showing a 16-QAM signal with points clustered around a grid. To the right of the plot, a 'Statistic Count' section shows 20/20 samples, 0.00% Out of Tolerance, 16-QAM Detected Modulation, PUSCH Detected Channel Type, and 100.0% View Filter Throughput. A vertical toolbar on the right contains buttons for 'LTE', 'Multi Evaluation RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'. The bottom status bar shows 'PS: Attached' and 'RRC State: Connected', along with a row of configuration buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

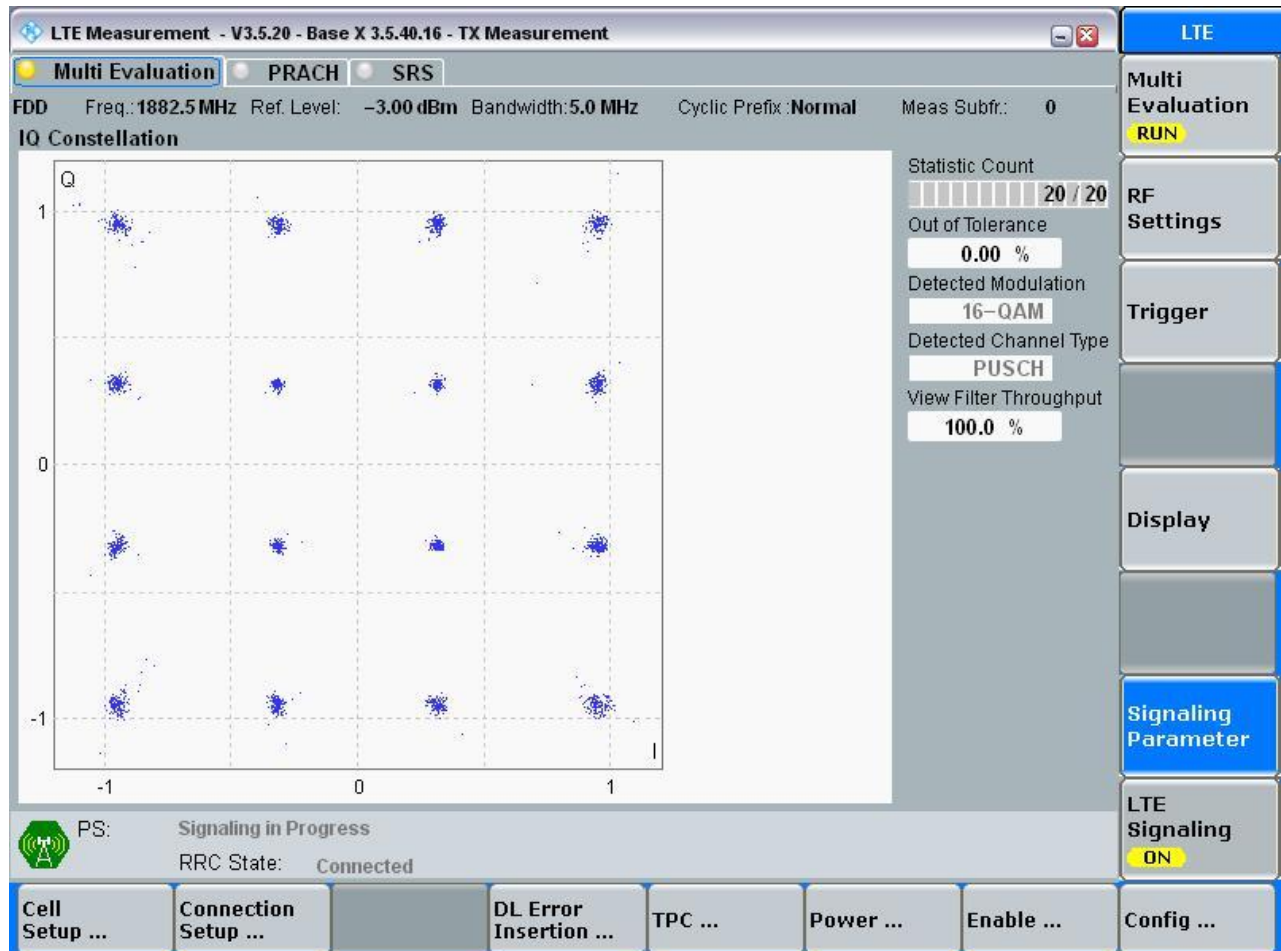
**3.1.1.8 Test Mode = LTE /TM2 3MHz**

**3.1.1.8.1 Test Channel = MCH**



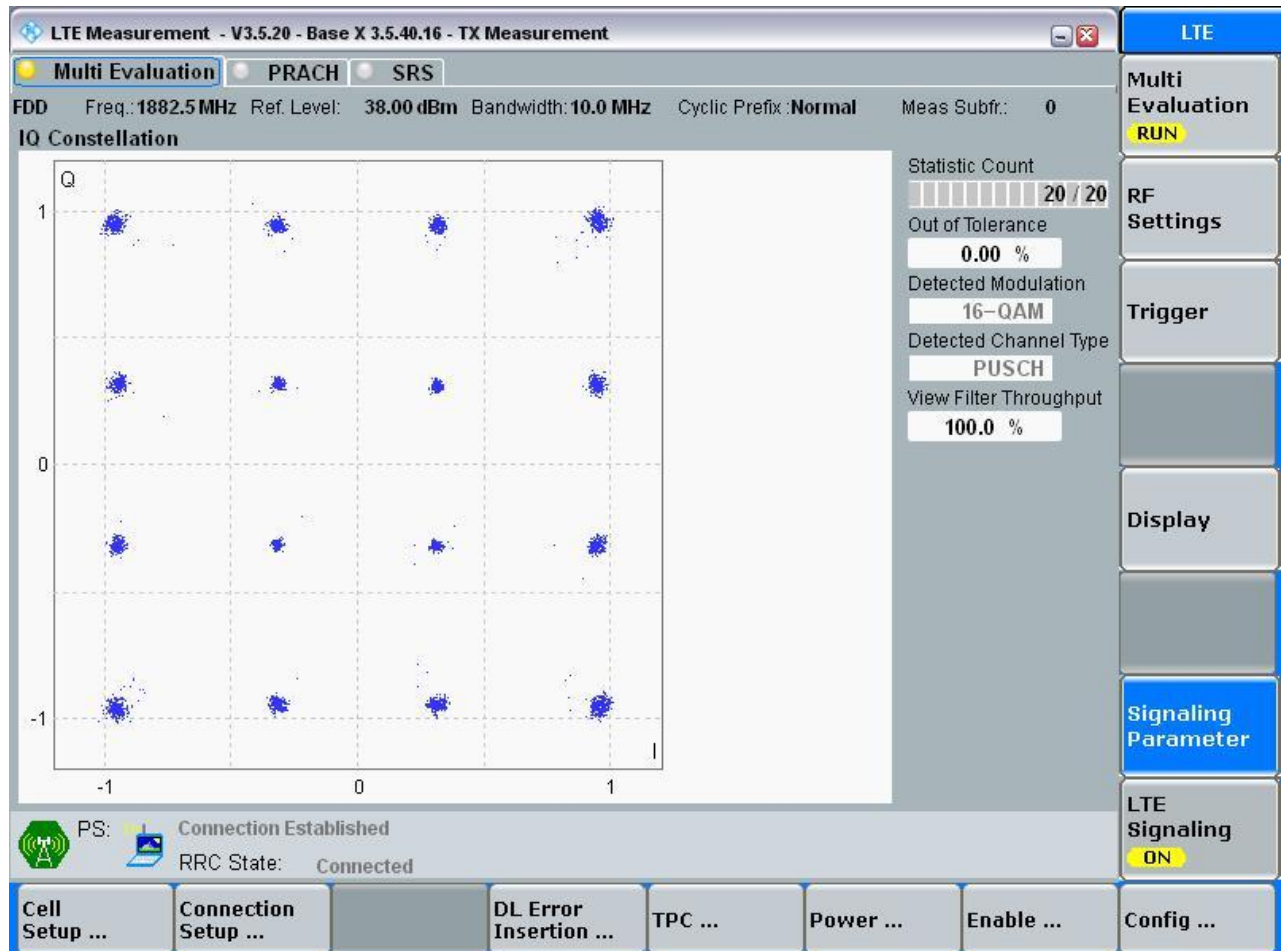
**3.1.1.9 Test Mode = LTE /TM2 5MHz**

**3.1.1.9.1 Test Channel = MCH**



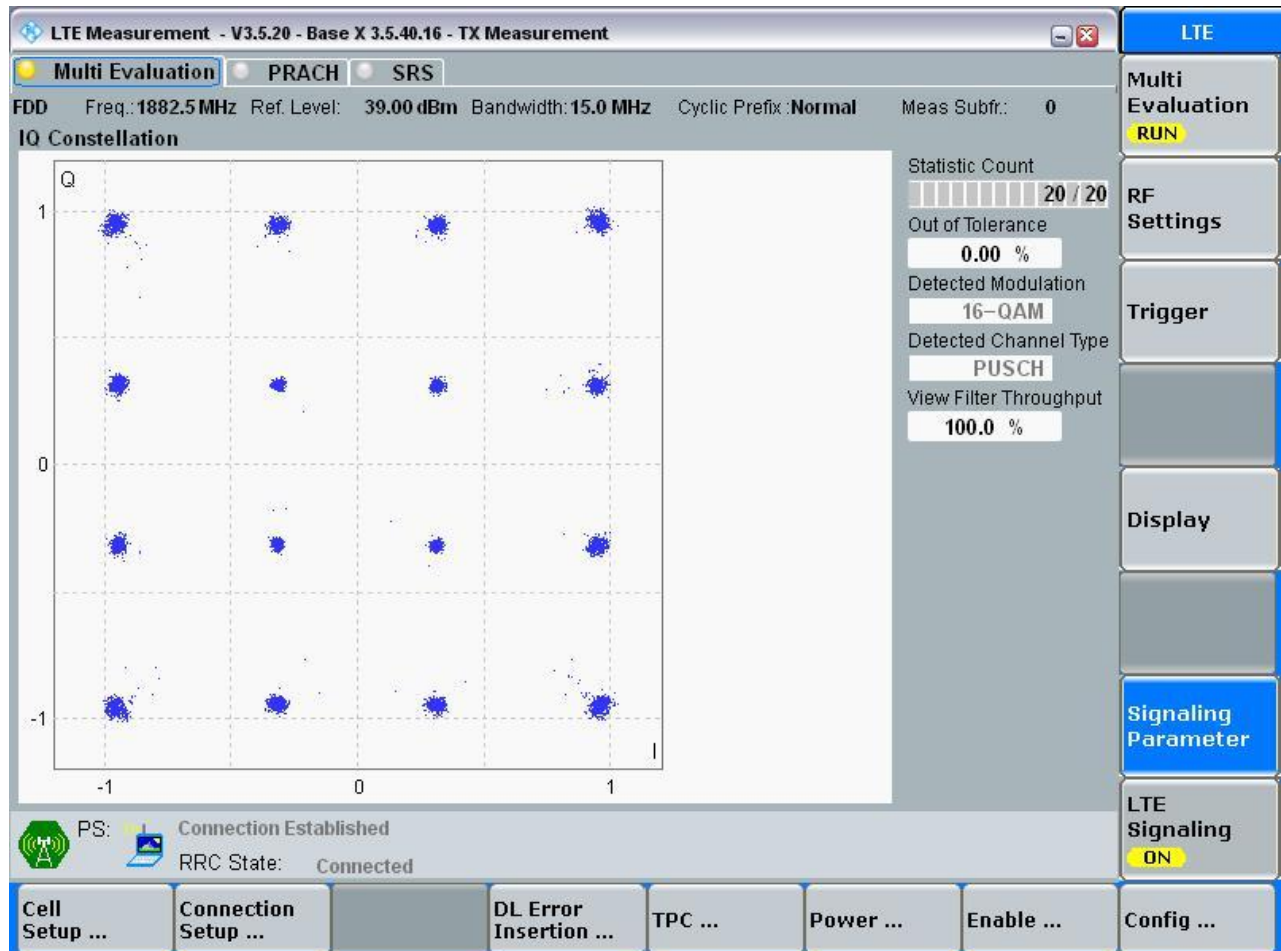
**3.1.1.10 Test Mode = LTE /TM2 10MHz**

**3.1.1.10.1 Test Channel = MCH**



**3.1.1.11 Test Mode = LTE /TM2 15MHz**

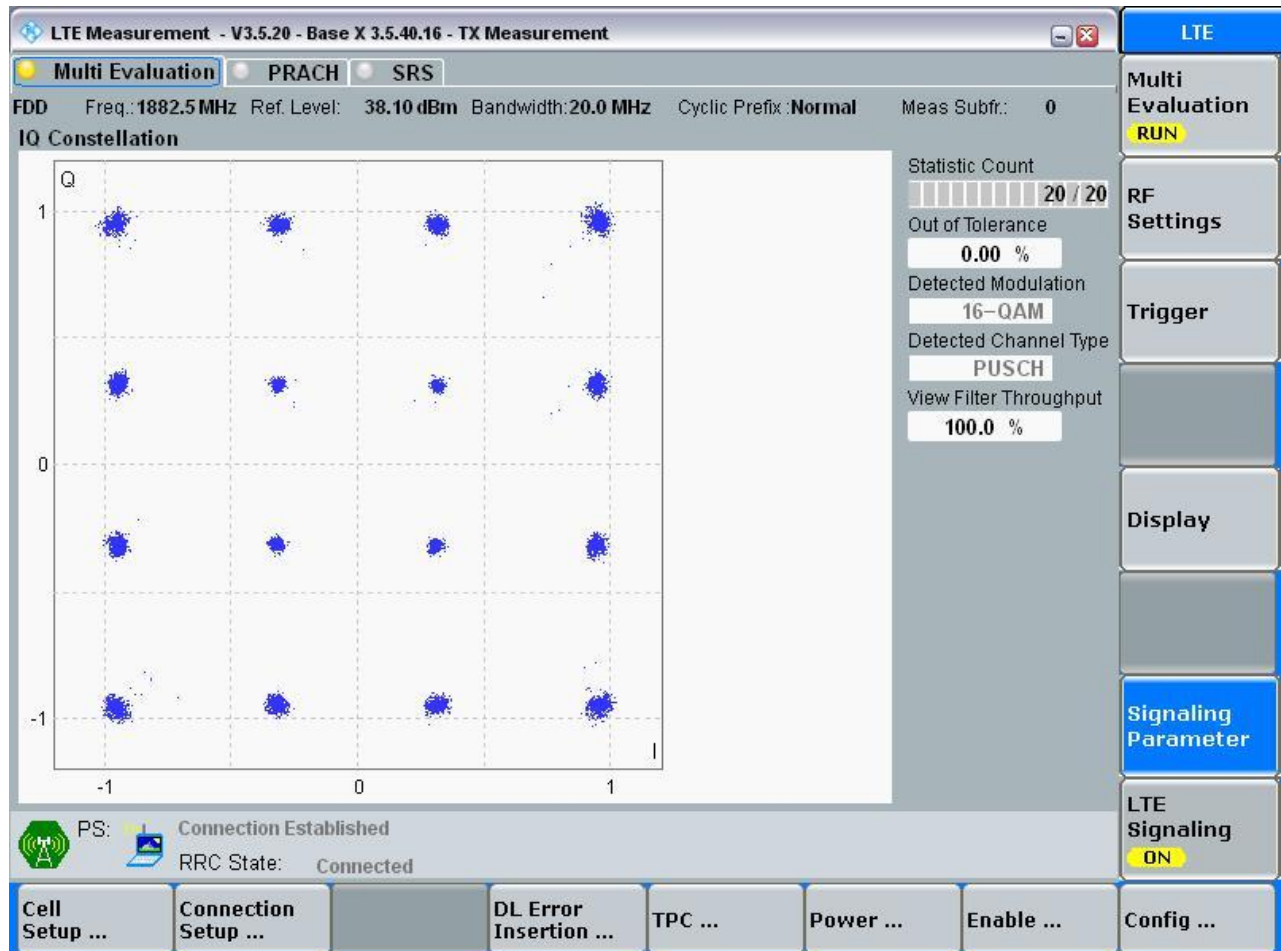
**3.1.1.11.1 Test Channel = MCH**





**3.1.1.12 Test Mode = LTE /TM2 20MHz**

**3.1.1.12.1 Test Channel = MCH**





## 4 Bandwidth

### Part I - Test Results

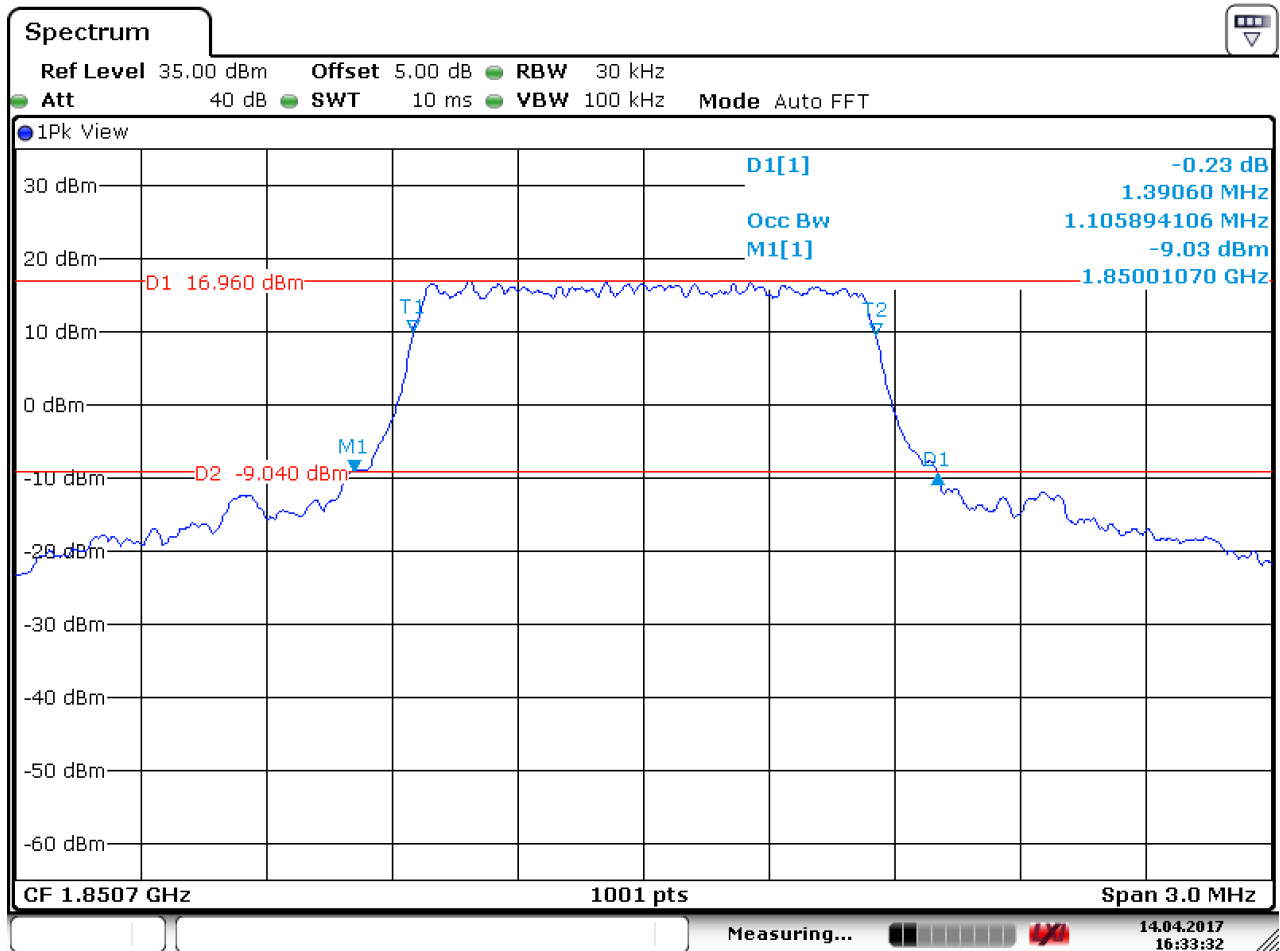
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 25	TM1/1.4MHz	LCH	1.11	1.39	PASS
		MCH	1.10	1.34	PASS
		HCH	1.11	1.32	PASS
	TM2/1.4MHz	LCH	1.10	1.32	PASS
		MCH	1.10	1.33	PASS
		HCH	1.10	1.35	PASS
	TM1/ 3MHz	LCH	2.70	2.96	PASS
		MCH	2.69	2.94	PASS
		HCH	2.69	2.97	PASS
	TM2/3MHz	LCH	2.69	2.96	PASS
		MCH	2.69	2.96	PASS
		HCH	2.68	2.97	PASS
	TM1/ 5MHz	LCH	4.50	5.01	PASS
		MCH	4.50	4.99	PASS
		HCH	4.48	4.94	PASS
	TM2/ 5MHz	LCH	4.50	4.99	PASS
		MCH	4.48	4.93	PASS
		HCH	4.50	4.99	PASS
	TM1/10MHz	LCH	8.93	9.73	PASS
		MCH	8.95	9.87	PASS
		HCH	8.93	9.75	PASS
	TM2/ 10MHz	LCH	8.95	9.73	PASS
		MCH	8.93	9.69	PASS
		HCH	8.93	9.69	PASS
TM1/ 15MHz	LCH	13.46	14.96	PASS	
	MCH	13.52	14.93	PASS	
	HCH	13.46	14.93	PASS	
TM2/ 15MHz	LCH	13.52	14.84	PASS	
	MCH	13.49	14.81	PASS	
	HCH	13.49	14.93	PASS	
TM1/ 20MHz	LCH	17.90	19.42	PASS	
	MCH	17.90	19.38	PASS	
	HCH	17.90	19.54	PASS	
TM2/ 20MHz	LCH	17.90	19.62	PASS	
	MCH	17.94	19.42	PASS	
	HCH	17.86	19.42	PASS	

## 4.1 For LTE

### 4.1.1 Test Band = LTE band25

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

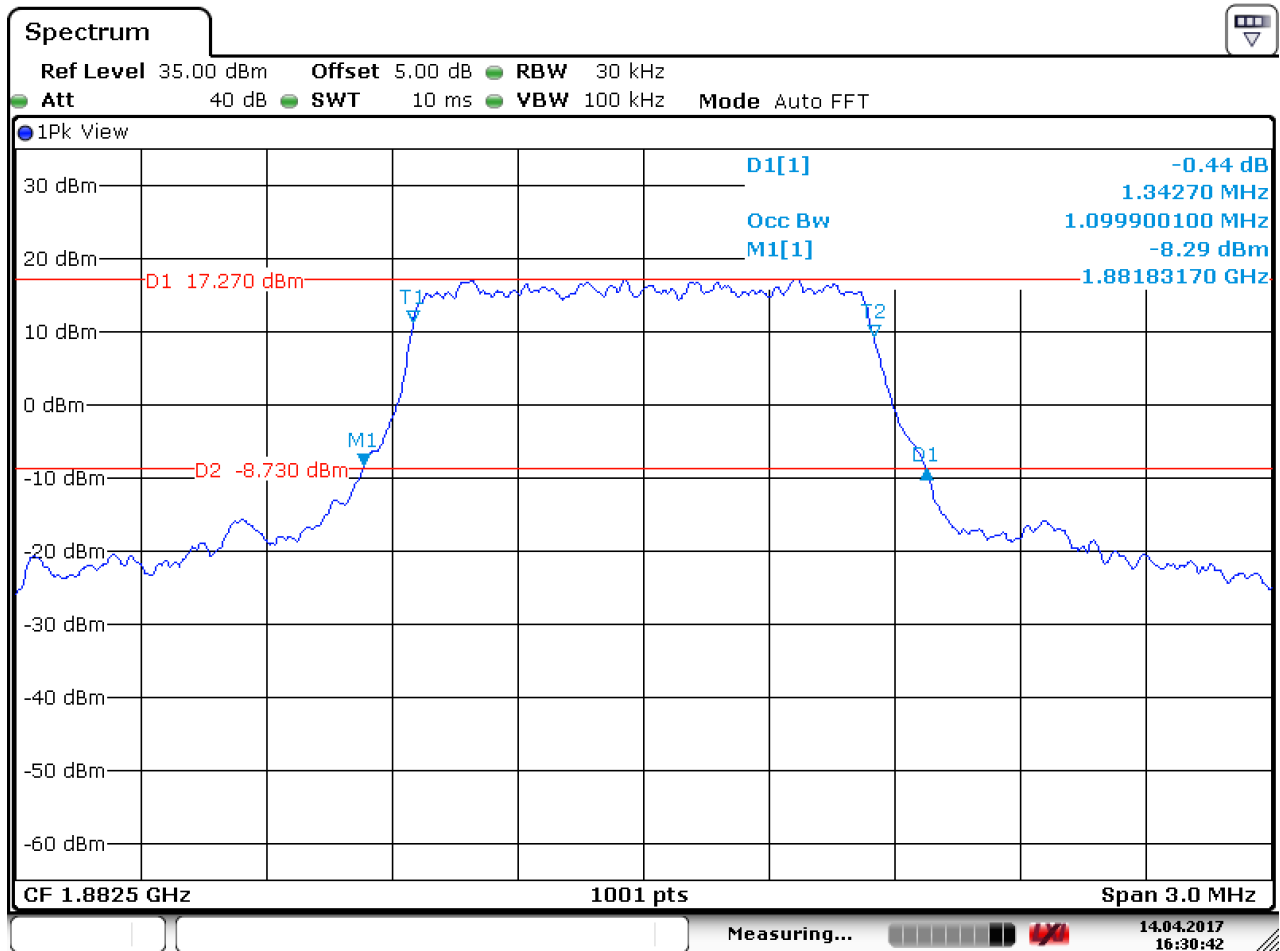
##### 4.1.1.1.1 Test Channel = LCH



Date: 14.APR.2017 16:33:32



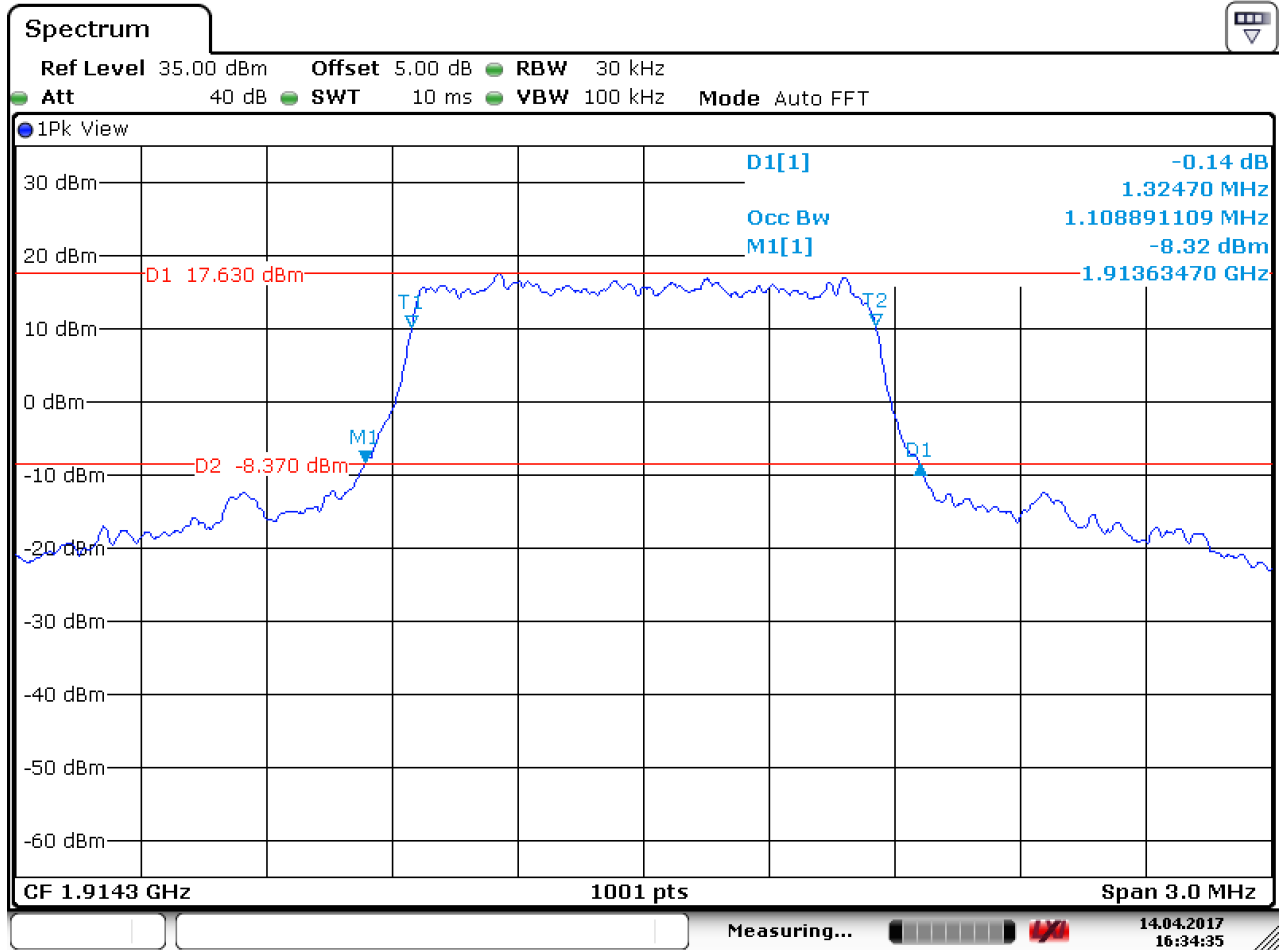
4.1.1.1.2 Test Channel = MCH



Date: 14.APR.2017 16:30:43



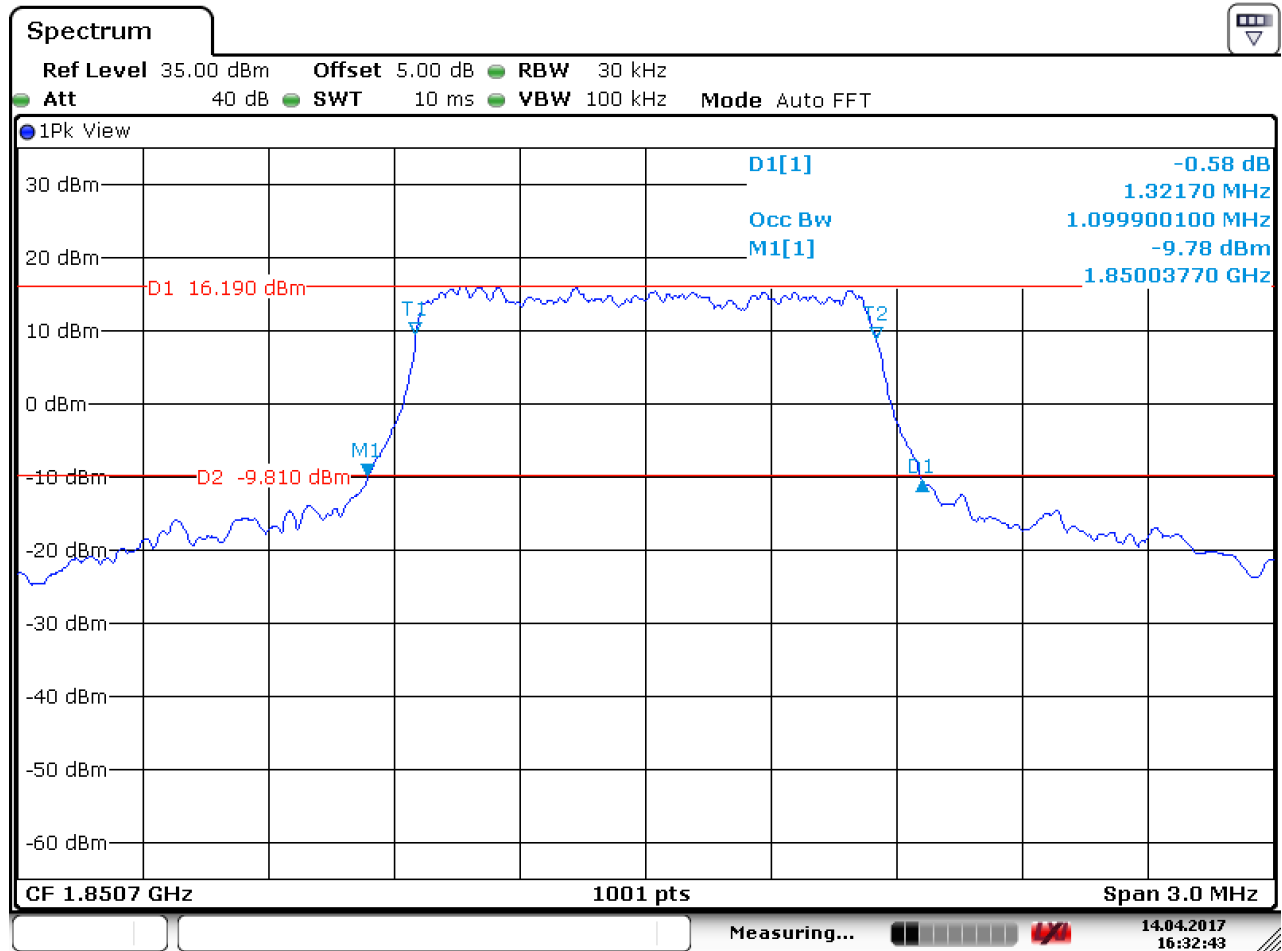
4.1.1.1.3 Test Channel = HCH



Date: 14.APR.2017 16:34:36

**4.1.1.2 Test Mode = LTE/TM2 1.4MHz**

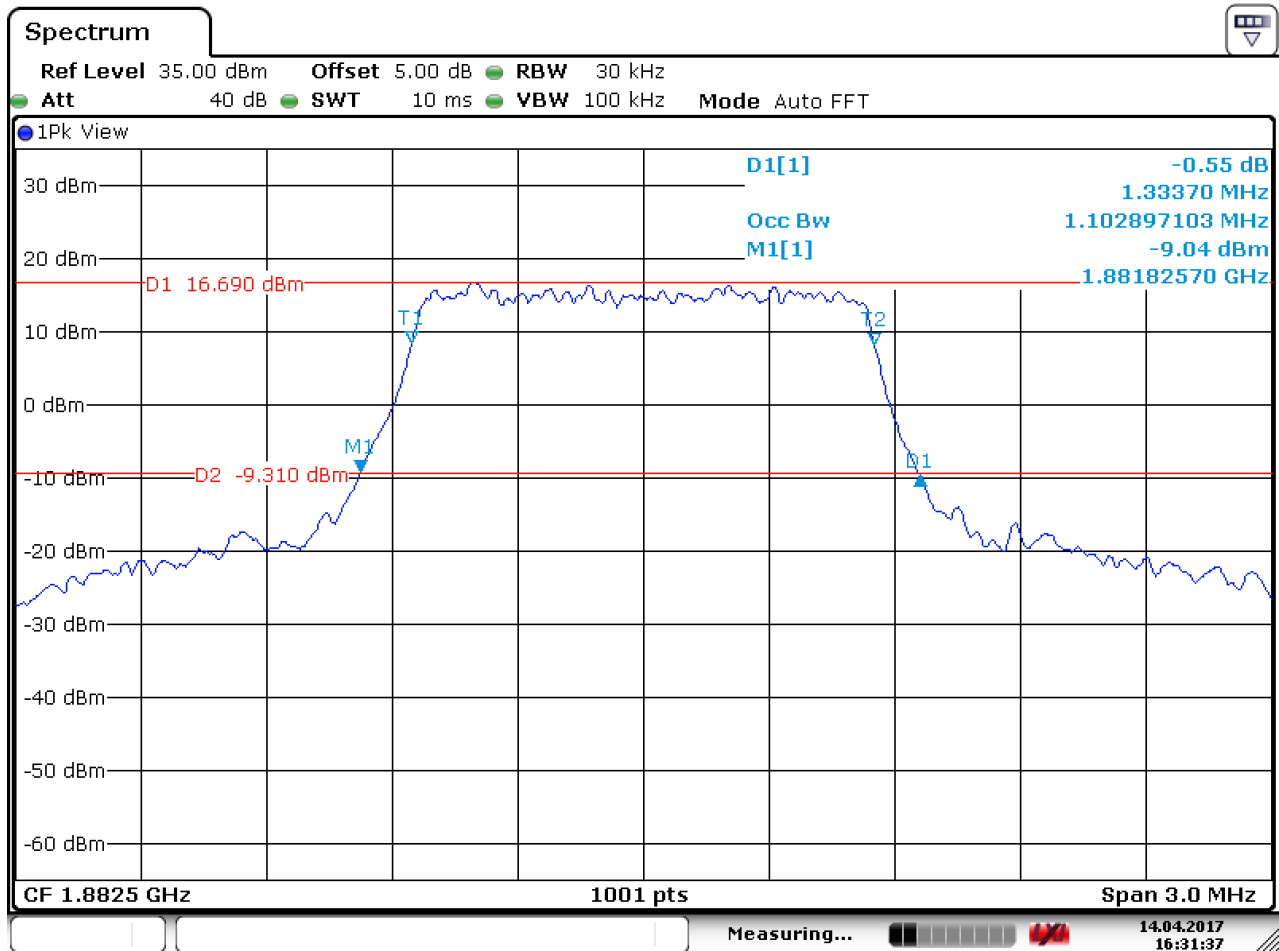
**4.1.1.2.1 Test Channel = LCH**



Date: 14.APR.2017 16:32:43



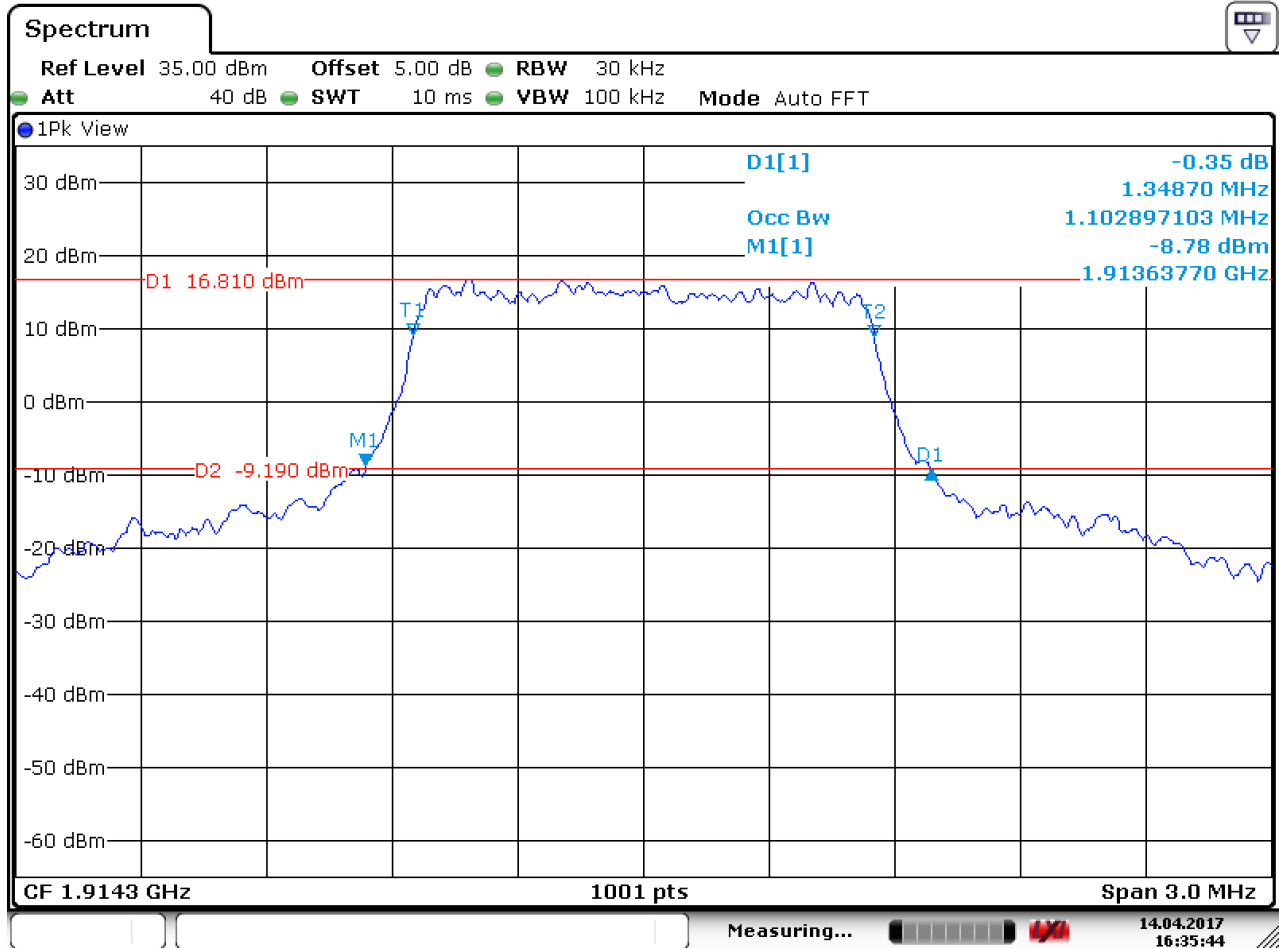
4.1.1.2.2 Test Channel = MCH



Date: 14.APR.2017 16:31:37



4.1.1.2.3 Test Channel = HCH

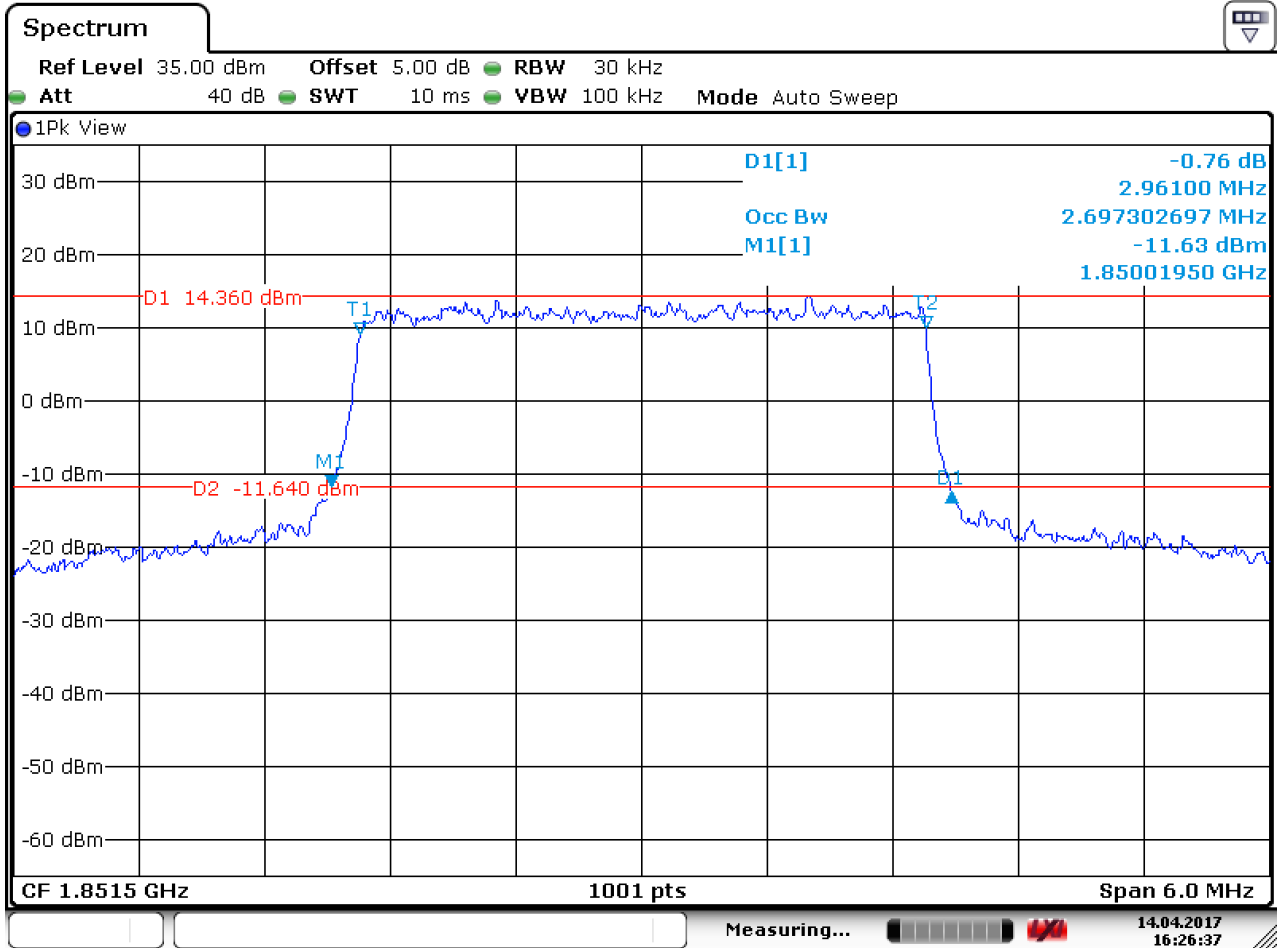


Date: 14.APR.2017 16:35:45



**4.1.1.3 Test Mode = LTE/TM1 3MHz**

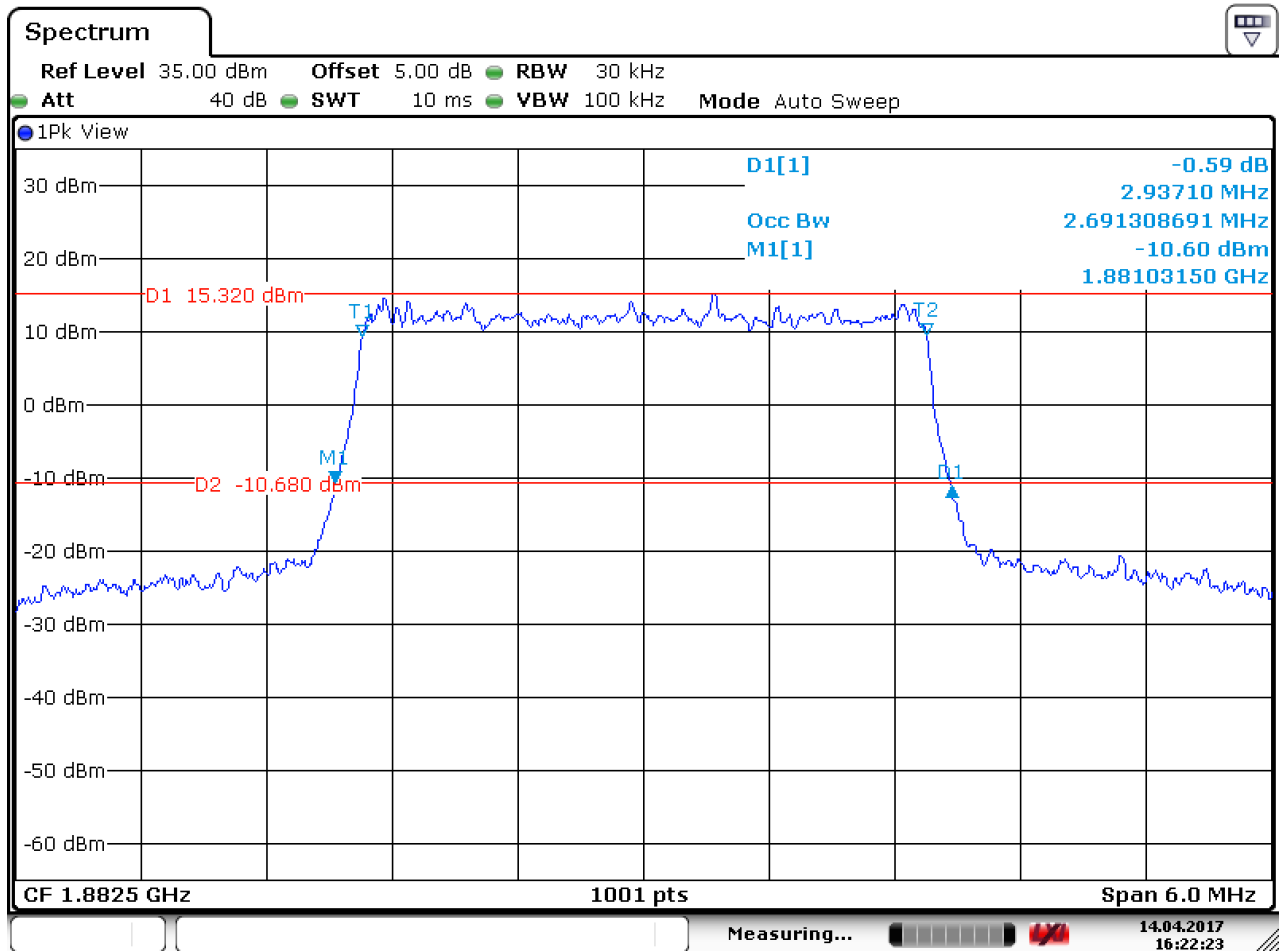
**4.1.1.3.1 Test Channel = LCH**



Date: 14.APR.2017 16:26:37

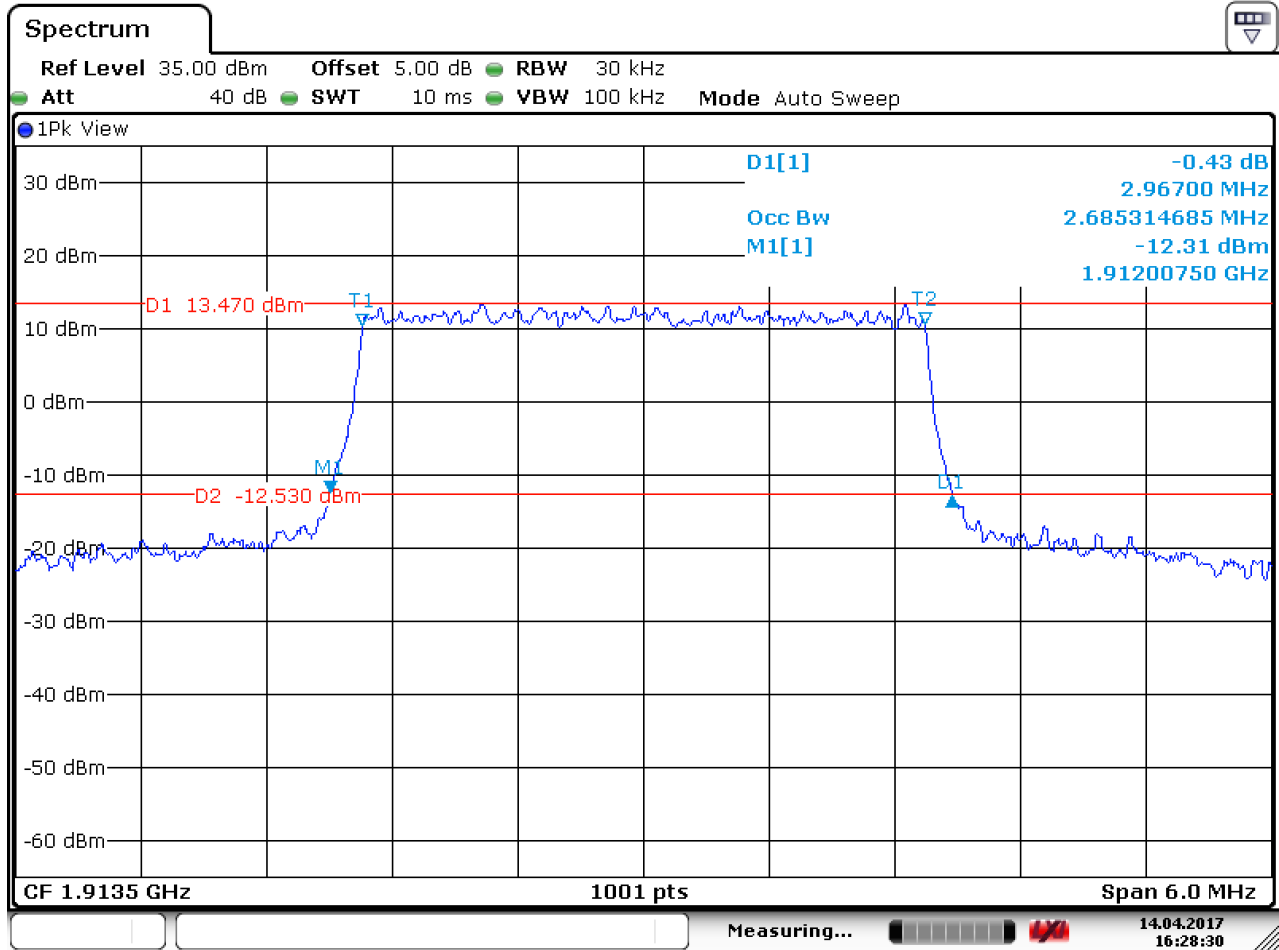


4.1.1.3.2 Test Channel = MCH



Date: 14.APR.2017 16:22:23

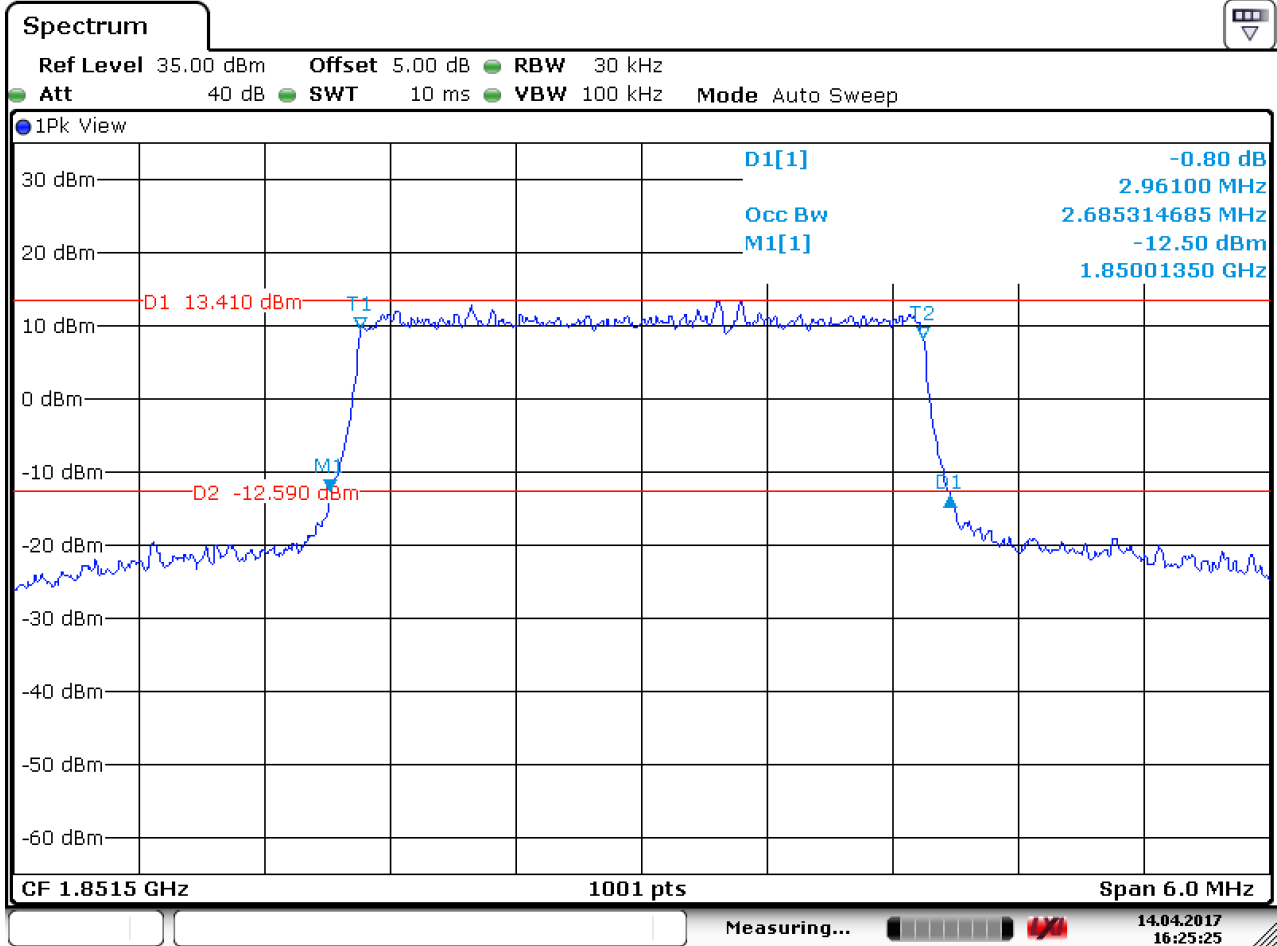
4.1.1.3.3 Test Channel = HCH



Date: 14.APR.2017 16:28:30

**4.1.1.4 Test Mode = LTE/TM2 3MHz**

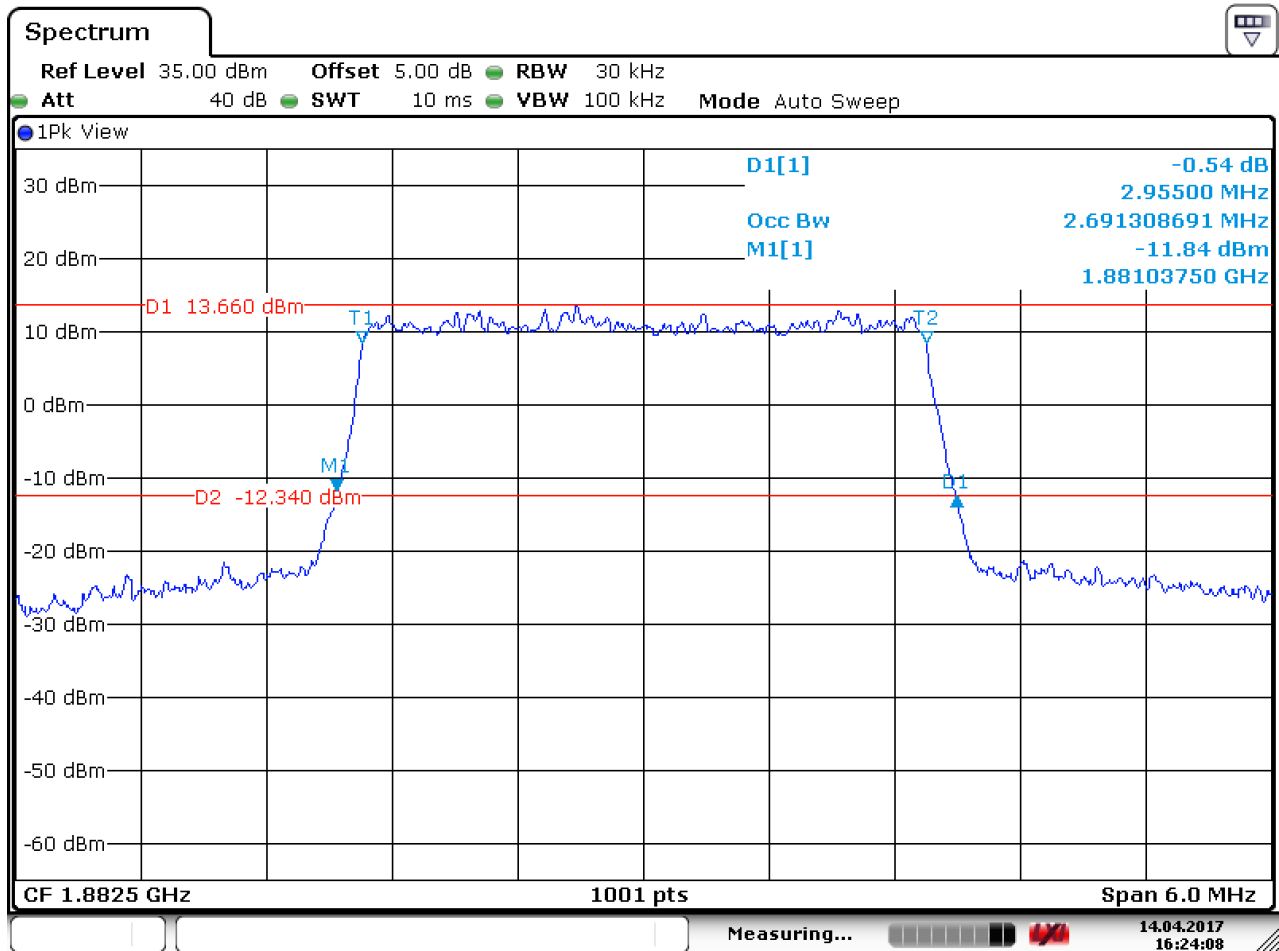
**4.1.1.4.1 Test Channel = LCH**



Date: 14.APR.2017 16:25:25

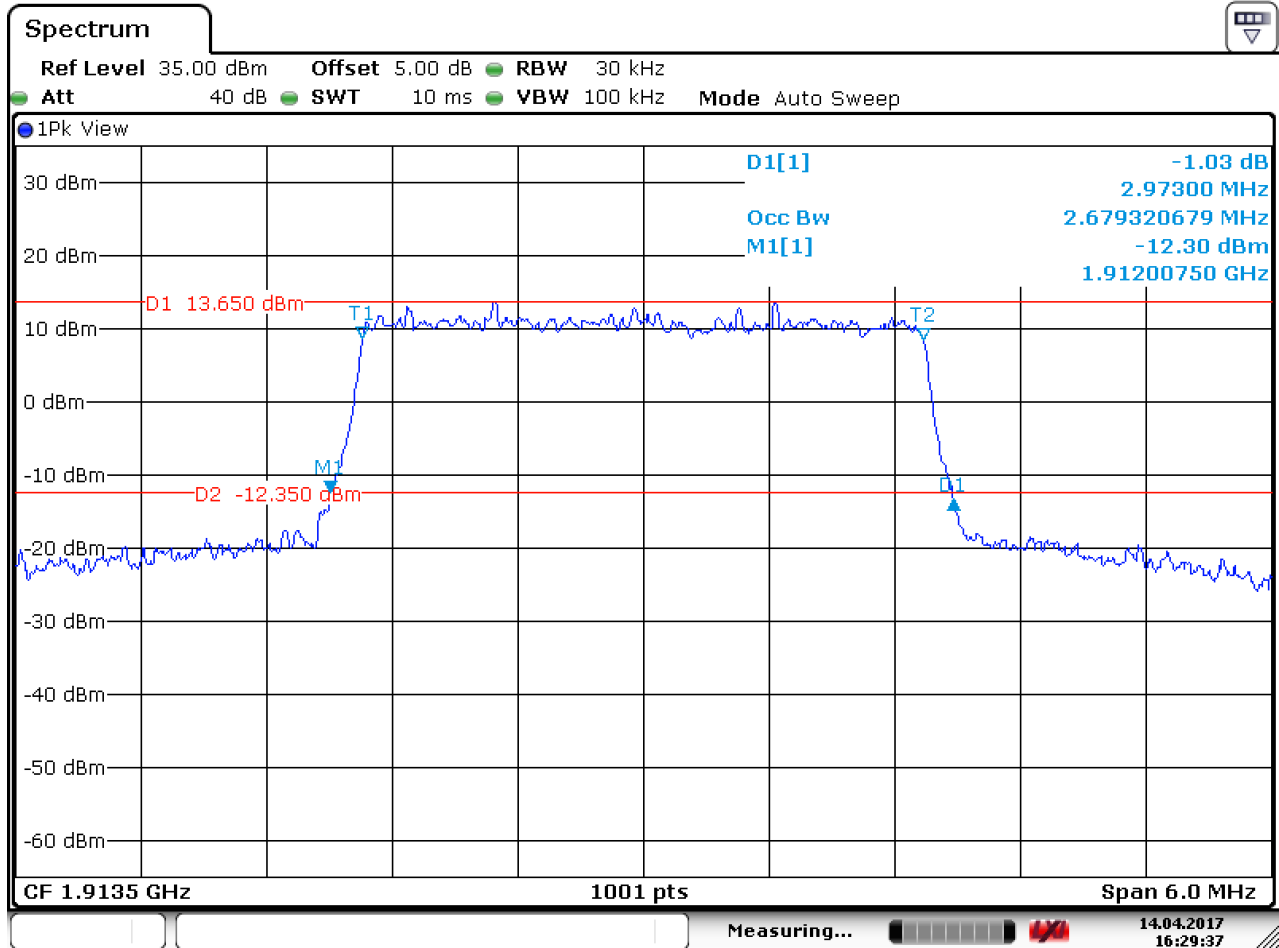


4.1.1.4.2 Test Channel = MCH



Date: 14.APR.2017 16:24:09

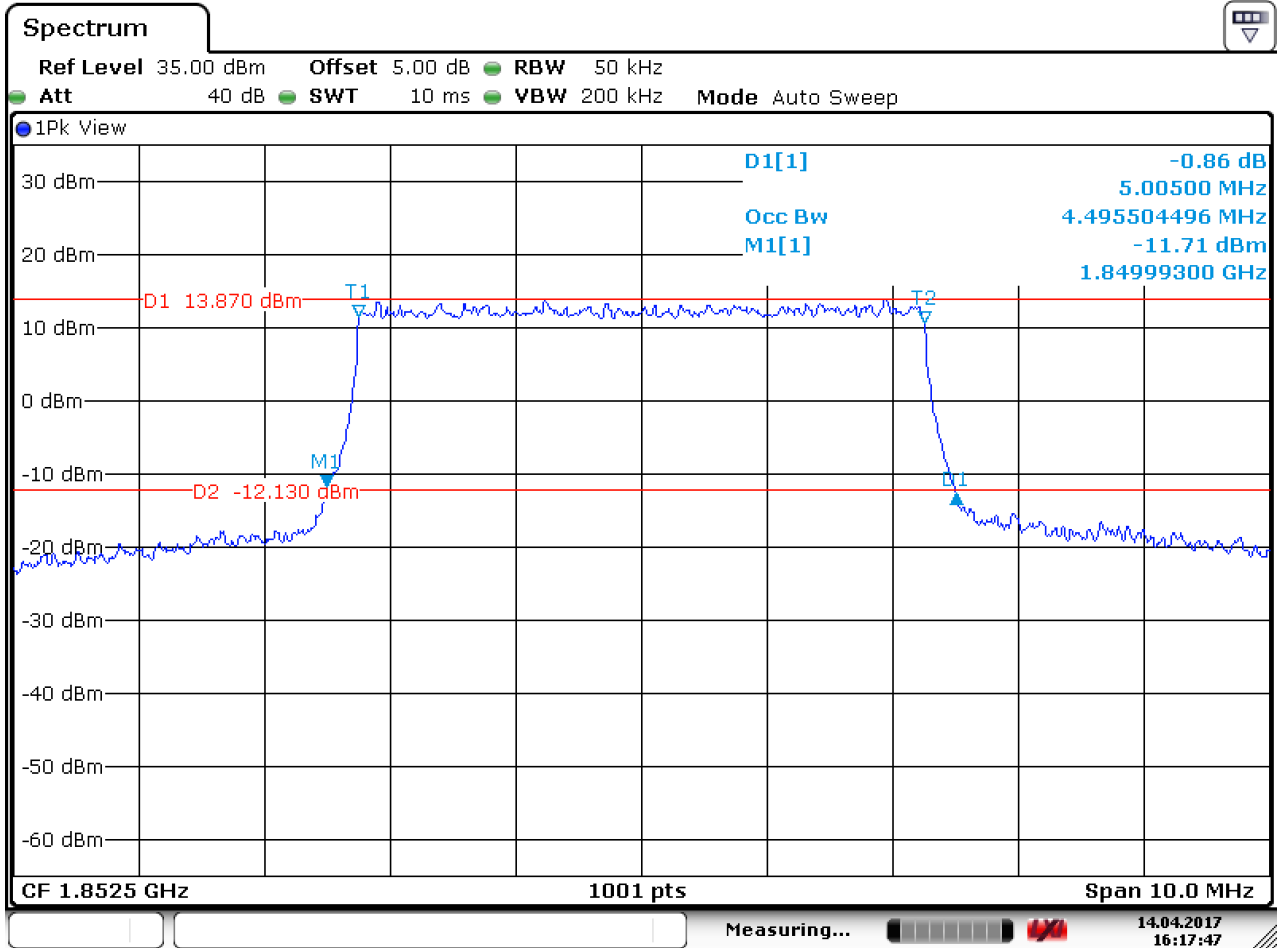
4.1.1.4.3 Test Channel = HCH



Date: 14.APR.2017 16:29:38

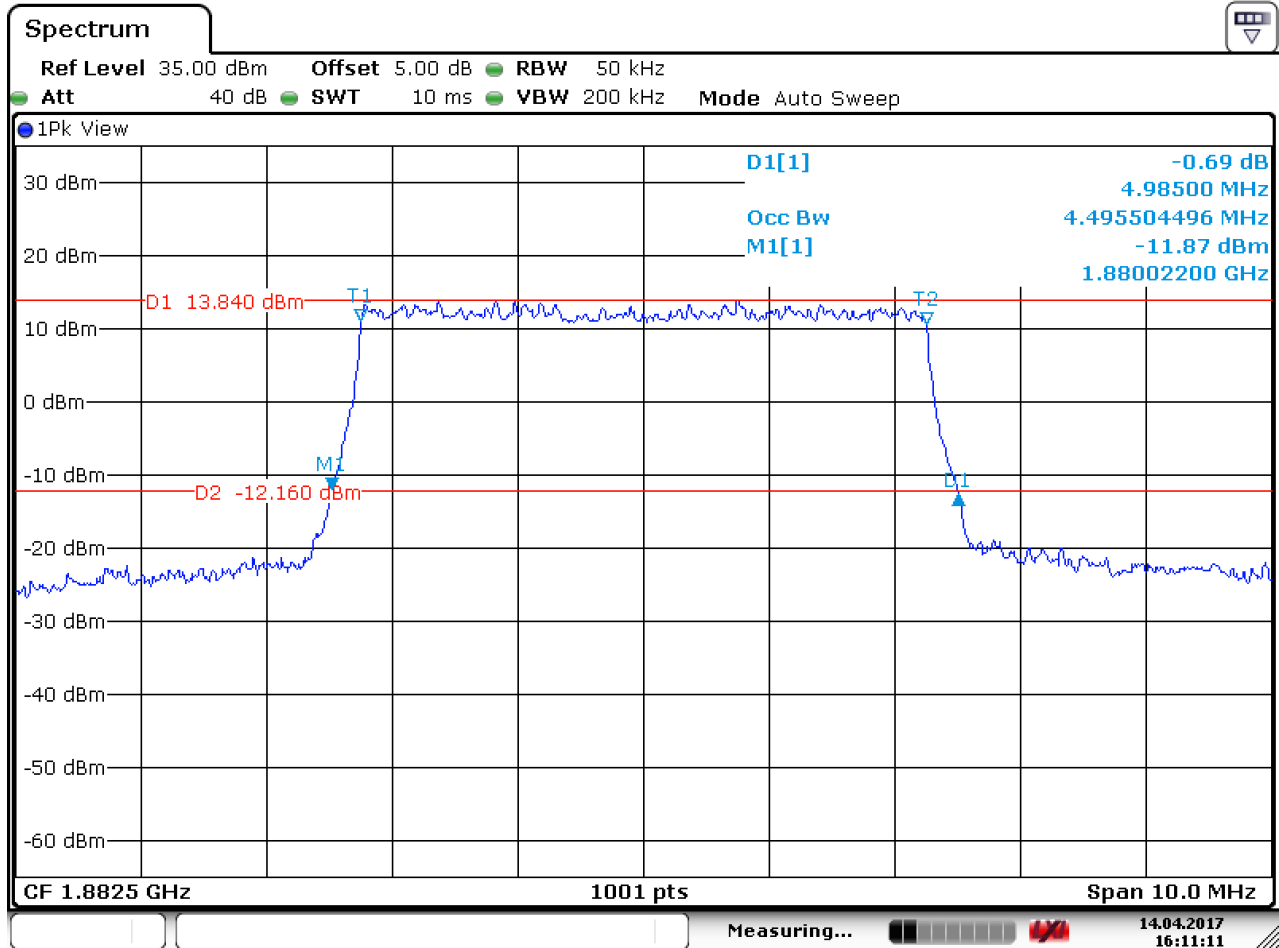
**4.1.1.5 Test Mode = LTE/TM1 5MHz**

**4.1.1.5.1 Test Channel = LCH**



Date: 14.APR.2017 16:17:47

4.1.1.5.2 Test Channel = MCH

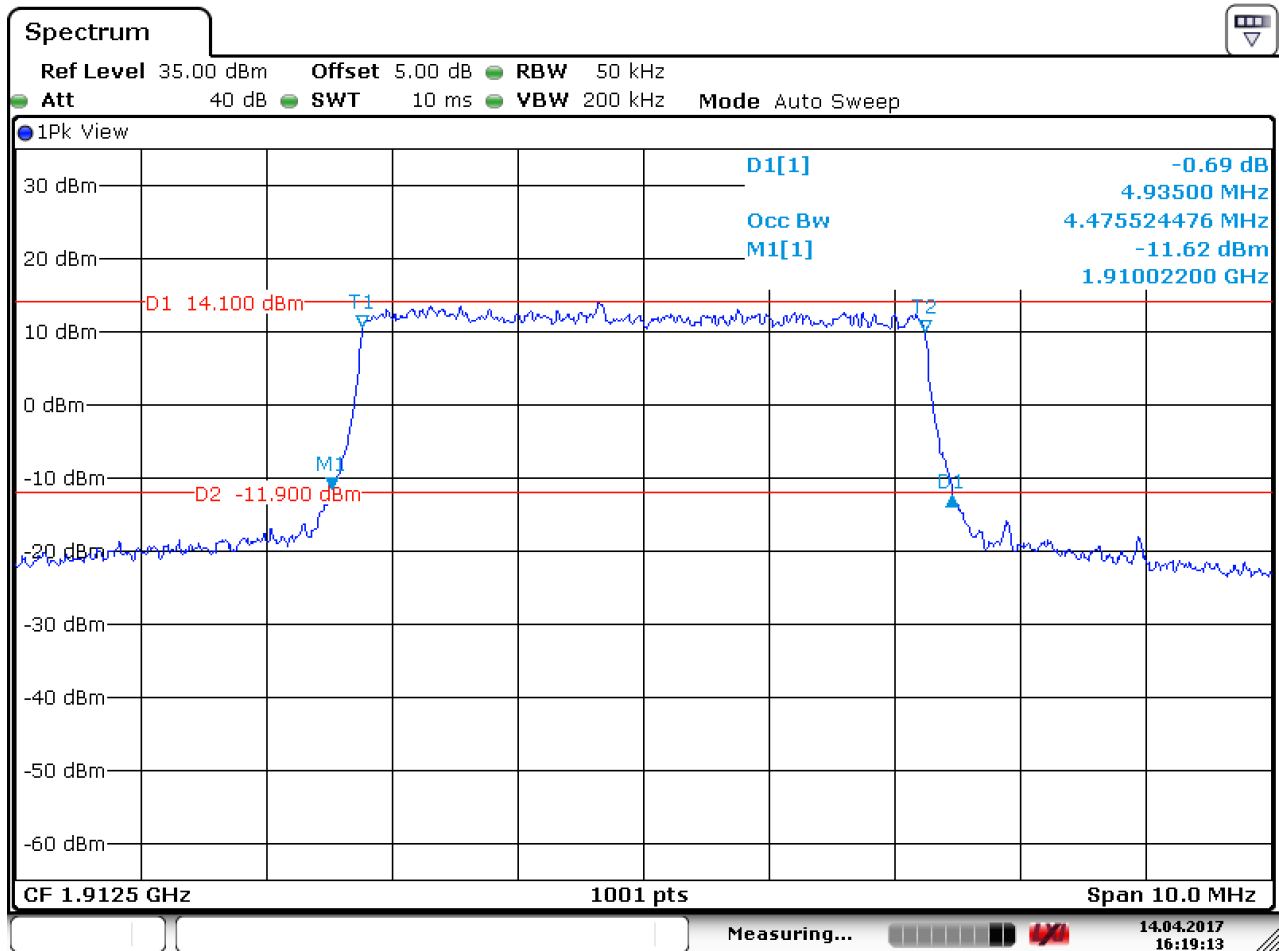


Date: 14.APR.2017 16:11:11





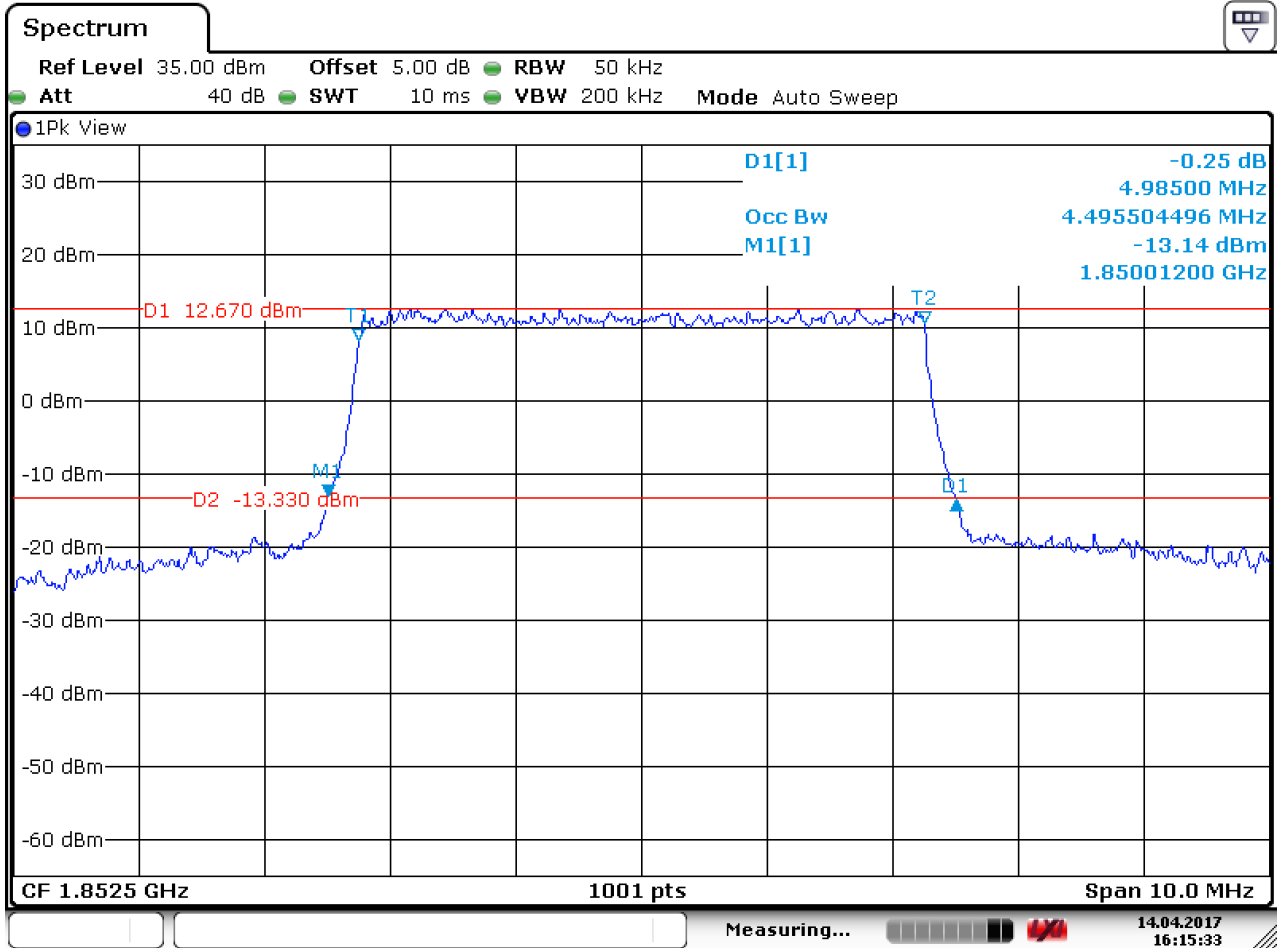
4.1.1.5.3 Test Channel = HCH



Date: 14.APR.2017 16:19:13

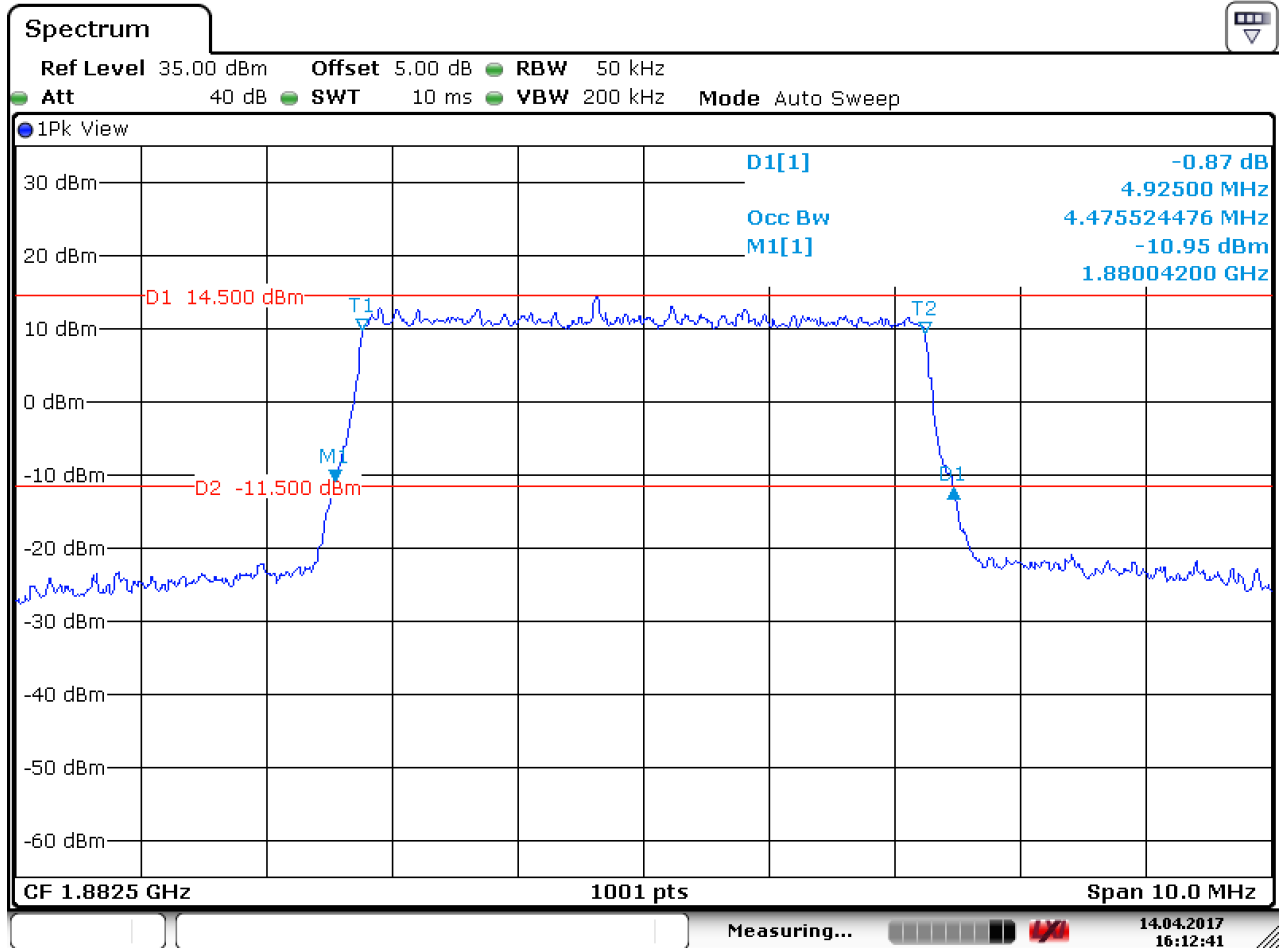
**4.1.1.6 Test Mode = LTE/TM2 5MHz**

**4.1.1.6.1 Test Channel = LCH**



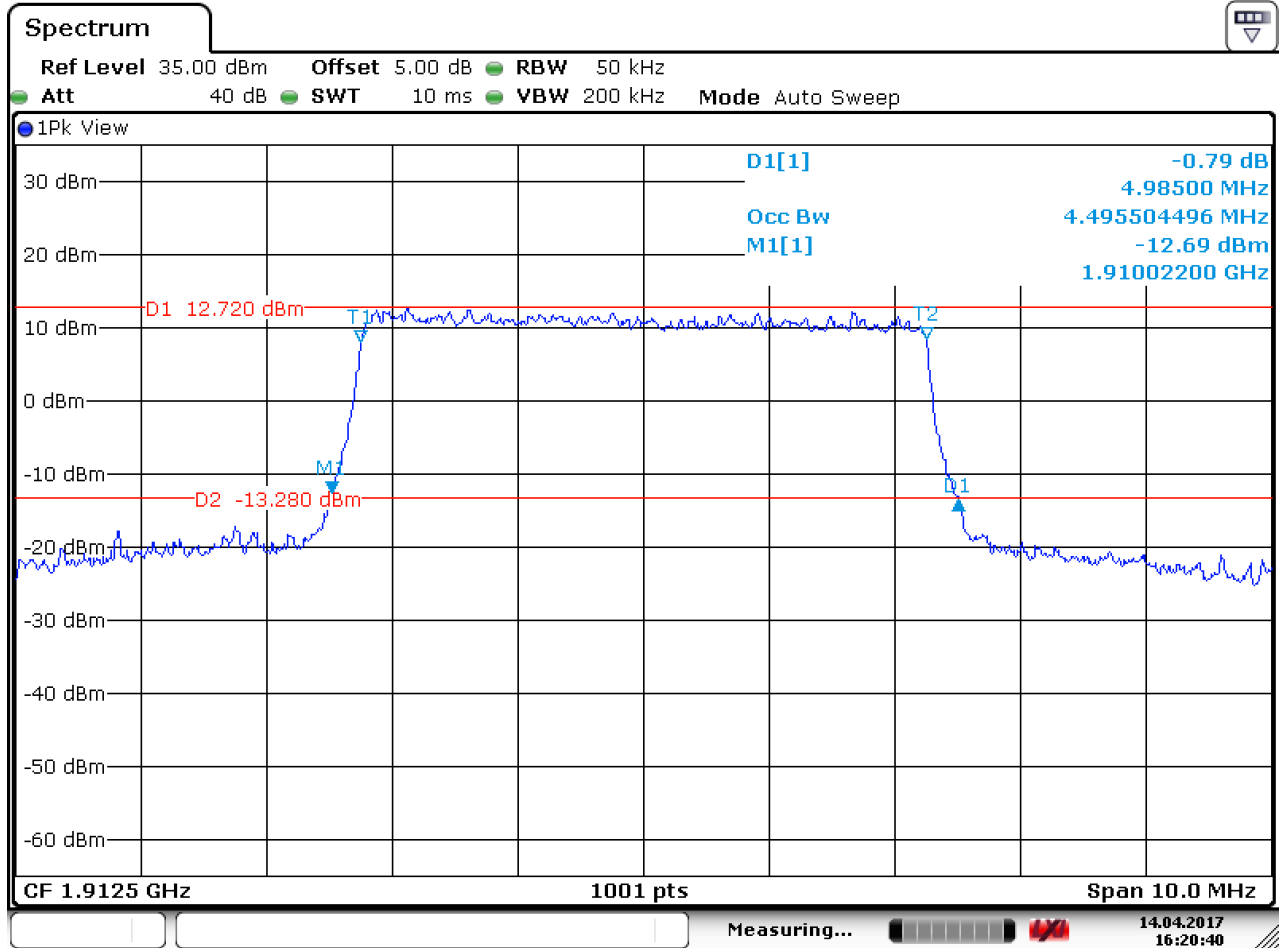
Date: 14.APR.2017 16:15:34

4.1.1.6.2 Test Channel = MCH



Date: 14.APR.2017 16:12:41

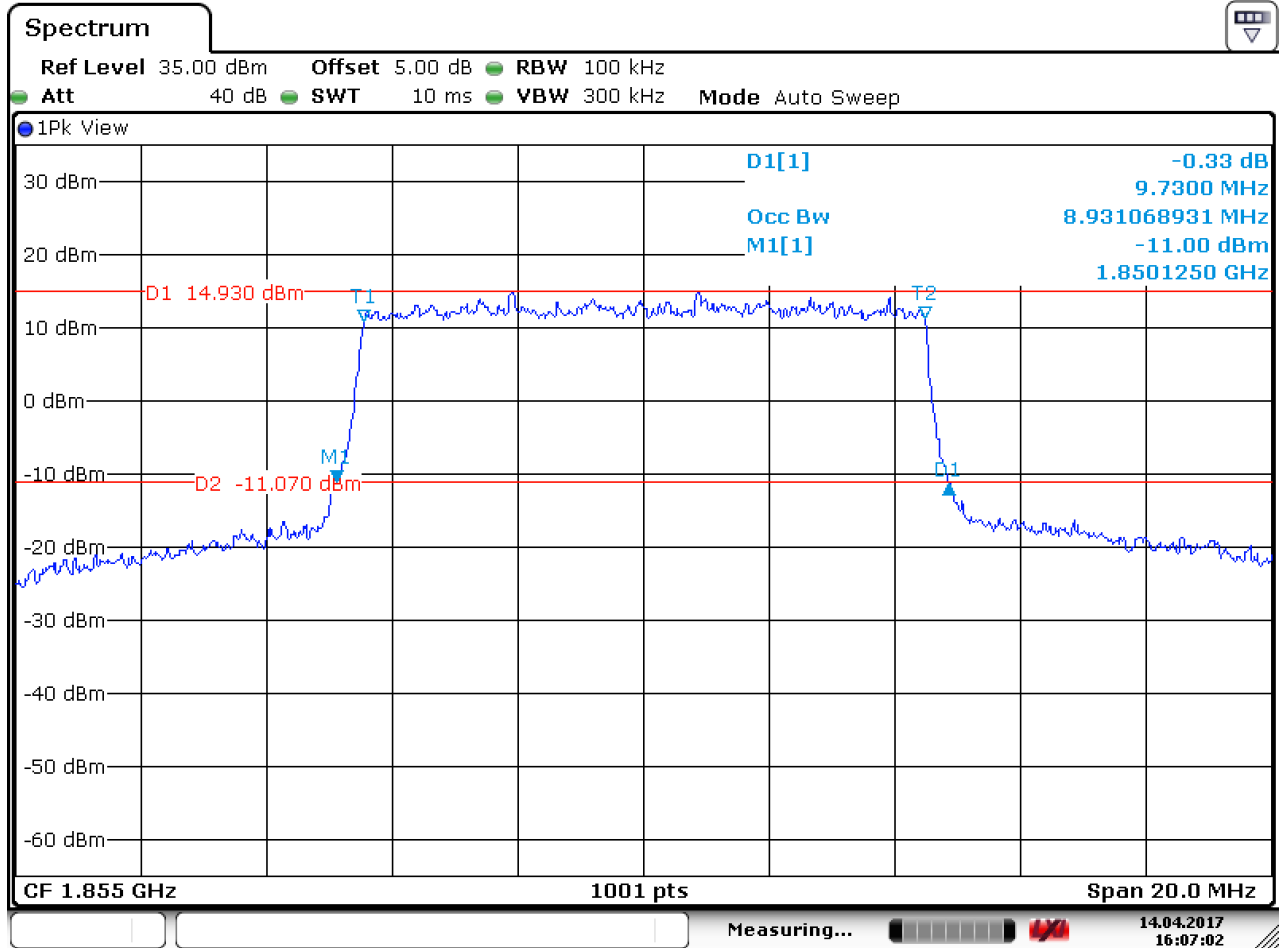
4.1.1.6.3 Test Channel = HCH



Date: 14.APR.2017 16:20:40

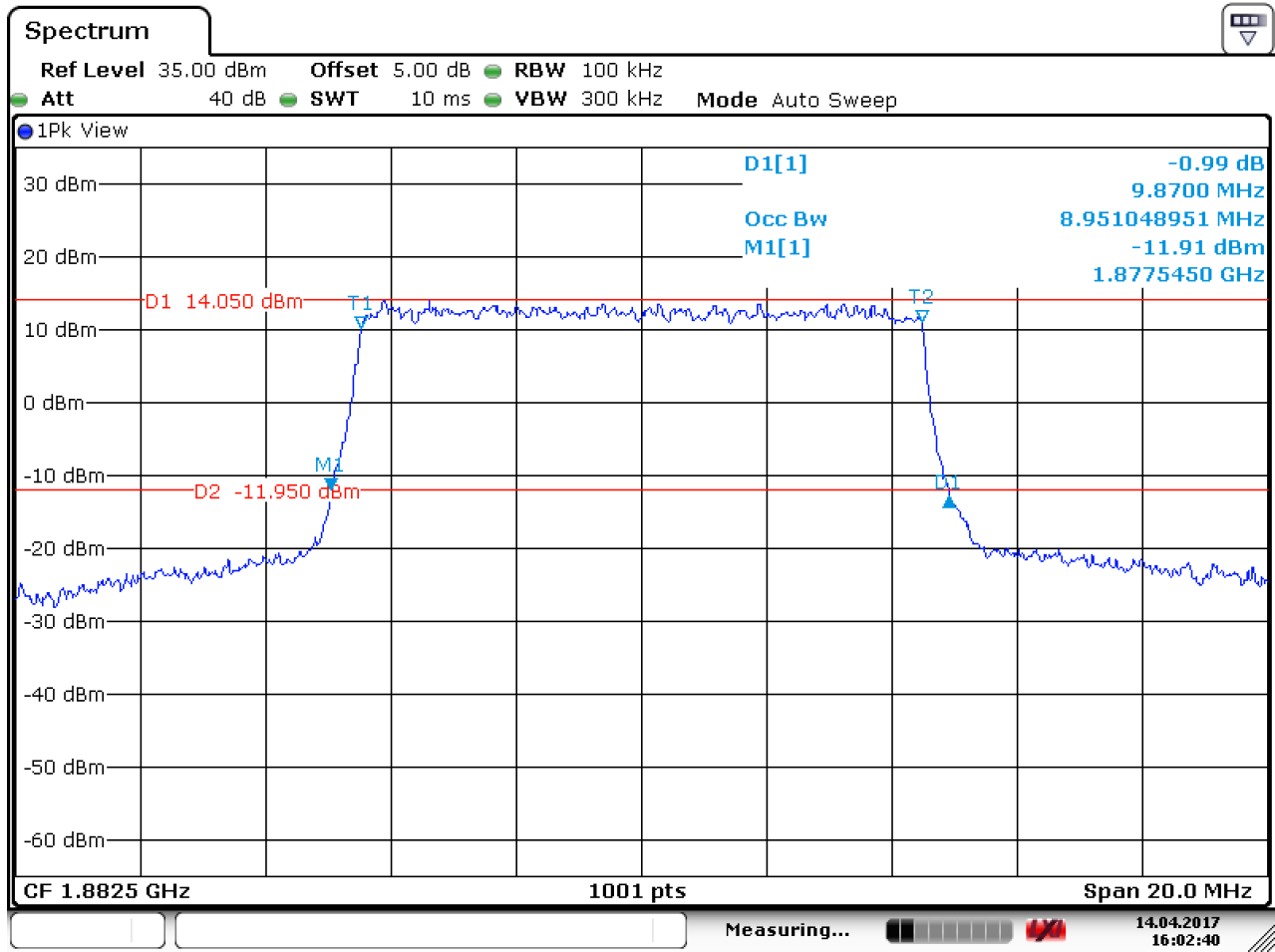
**4.1.1.7 Test Mode = LTE/TM1 10MHz**

**4.1.1.7.1 Test Channel = LCH**



Date: 14.APR.2017 16:07:02

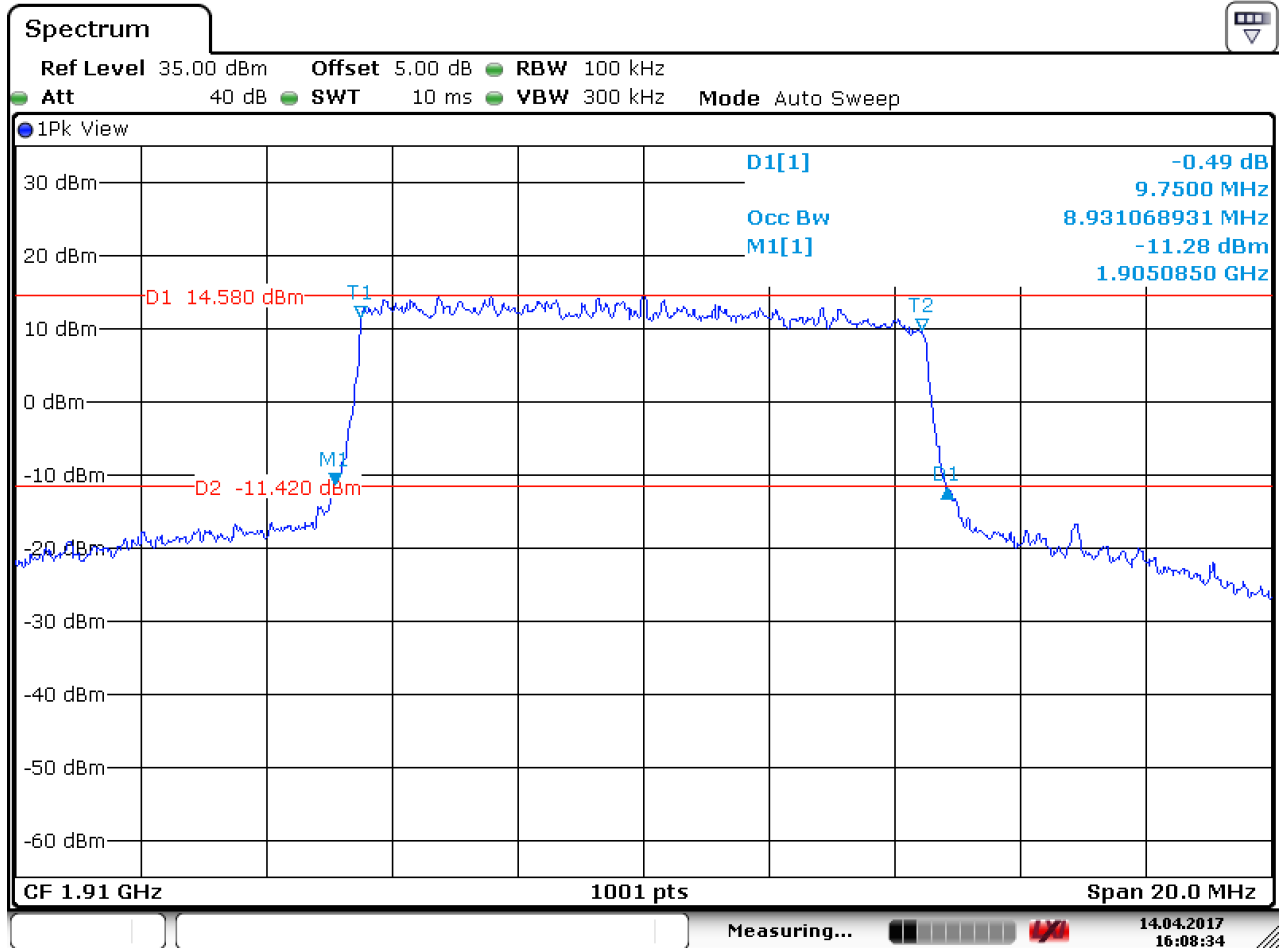
4.1.1.7.2 Test Channel = MCH



Date: 14.APR.2017 16:02:40



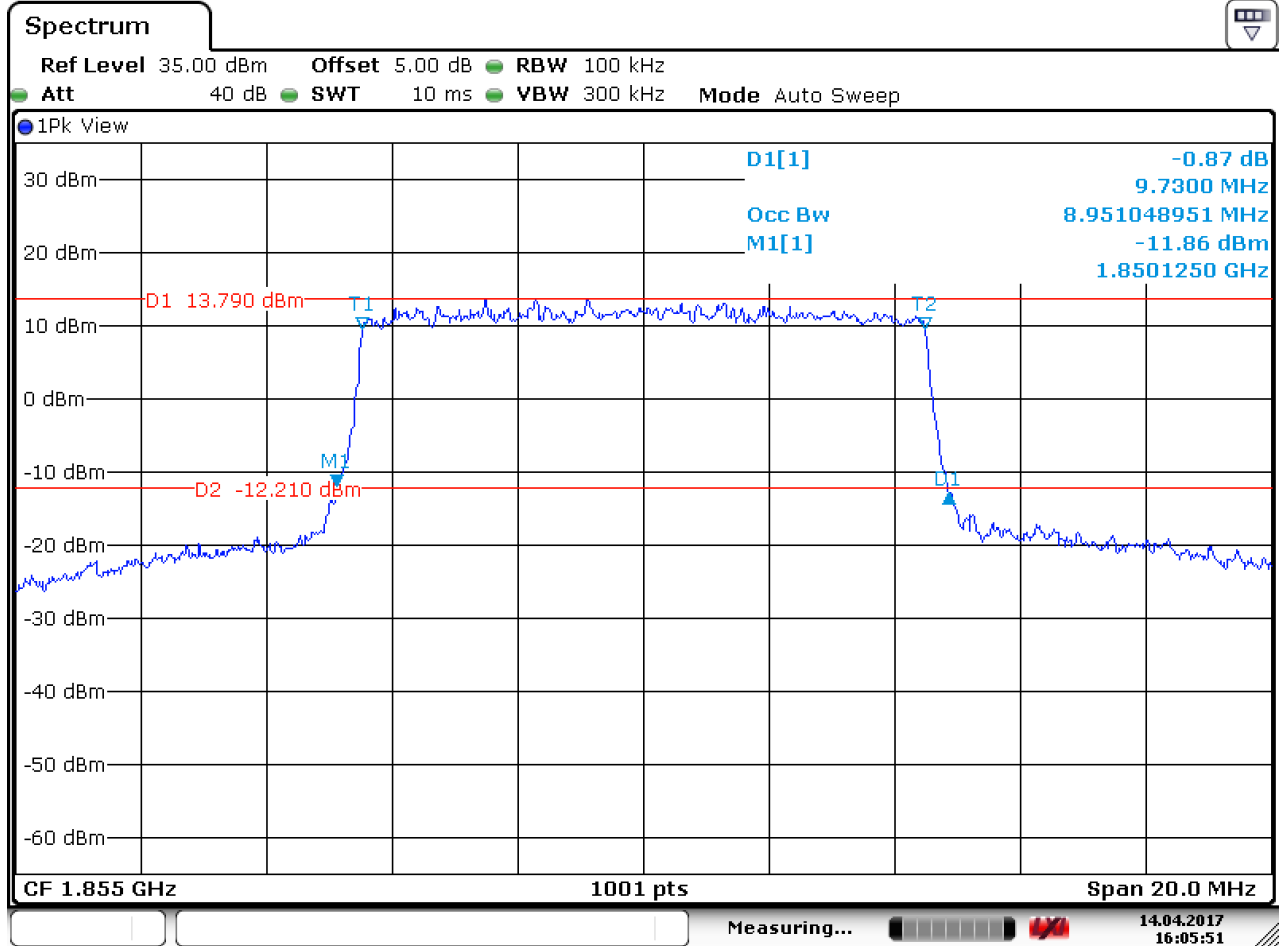
4.1.1.7.3 Test Channel = HCH



Date: 14.APR.2017 16:08:33

**4.1.1.8 Test Mode = LTE/TM2 10MHz**

**4.1.1.8.1 Test Channel = LCH**



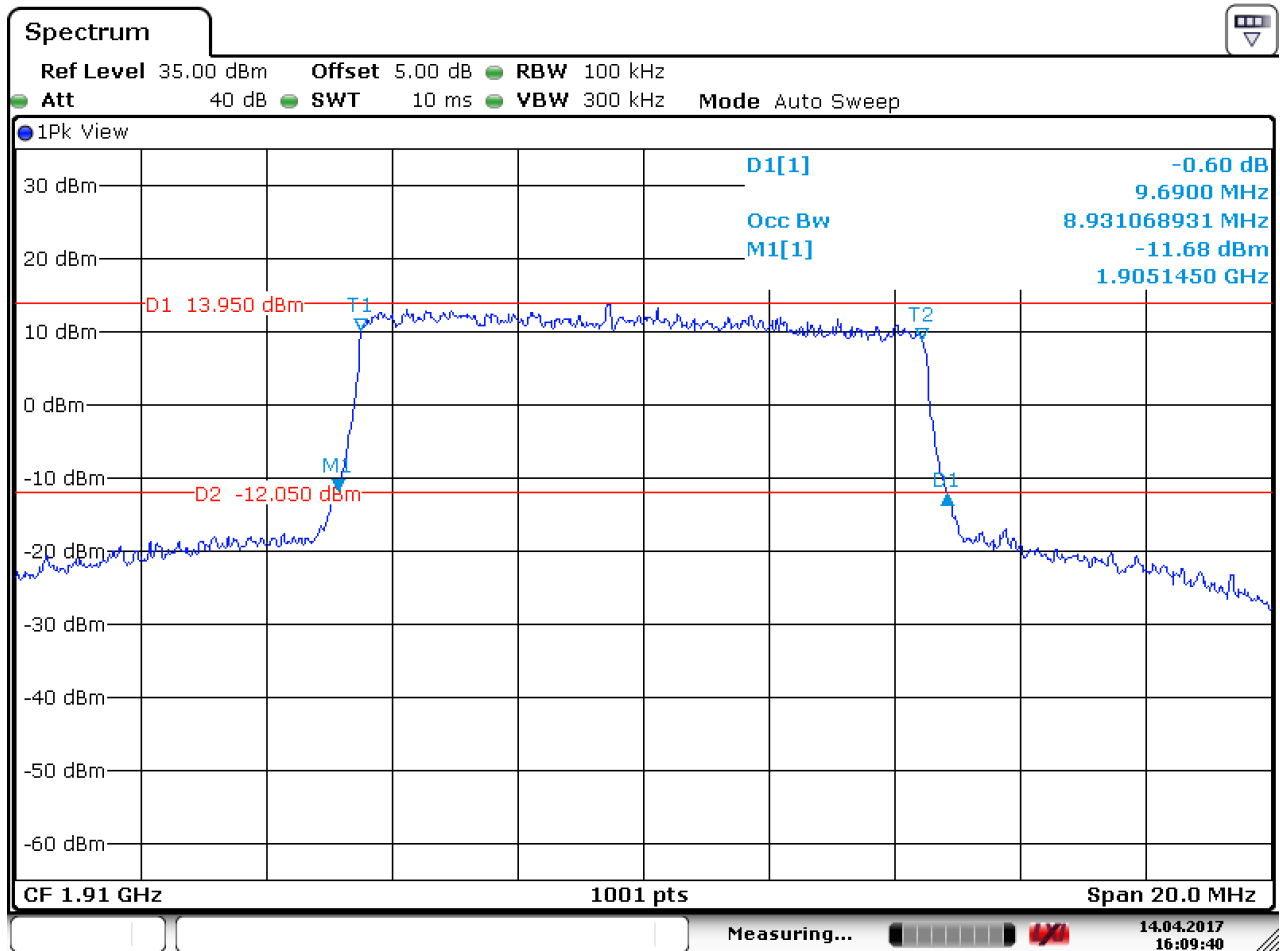
Date: 14.APR.2017 16:05:51







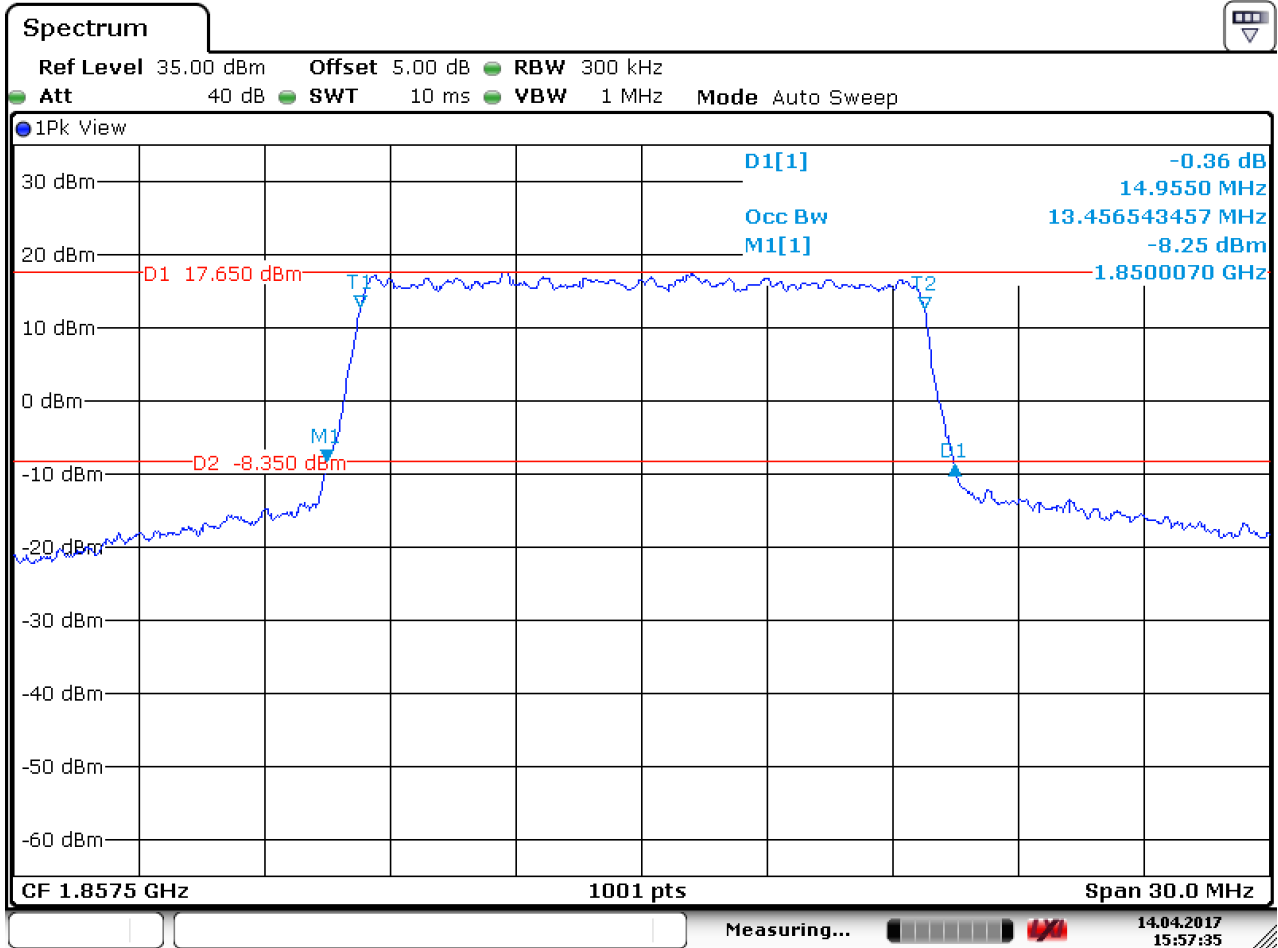
4.1.1.8.3 Test Channel = HCH



Date: 14.APR.2017 16:09:41

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

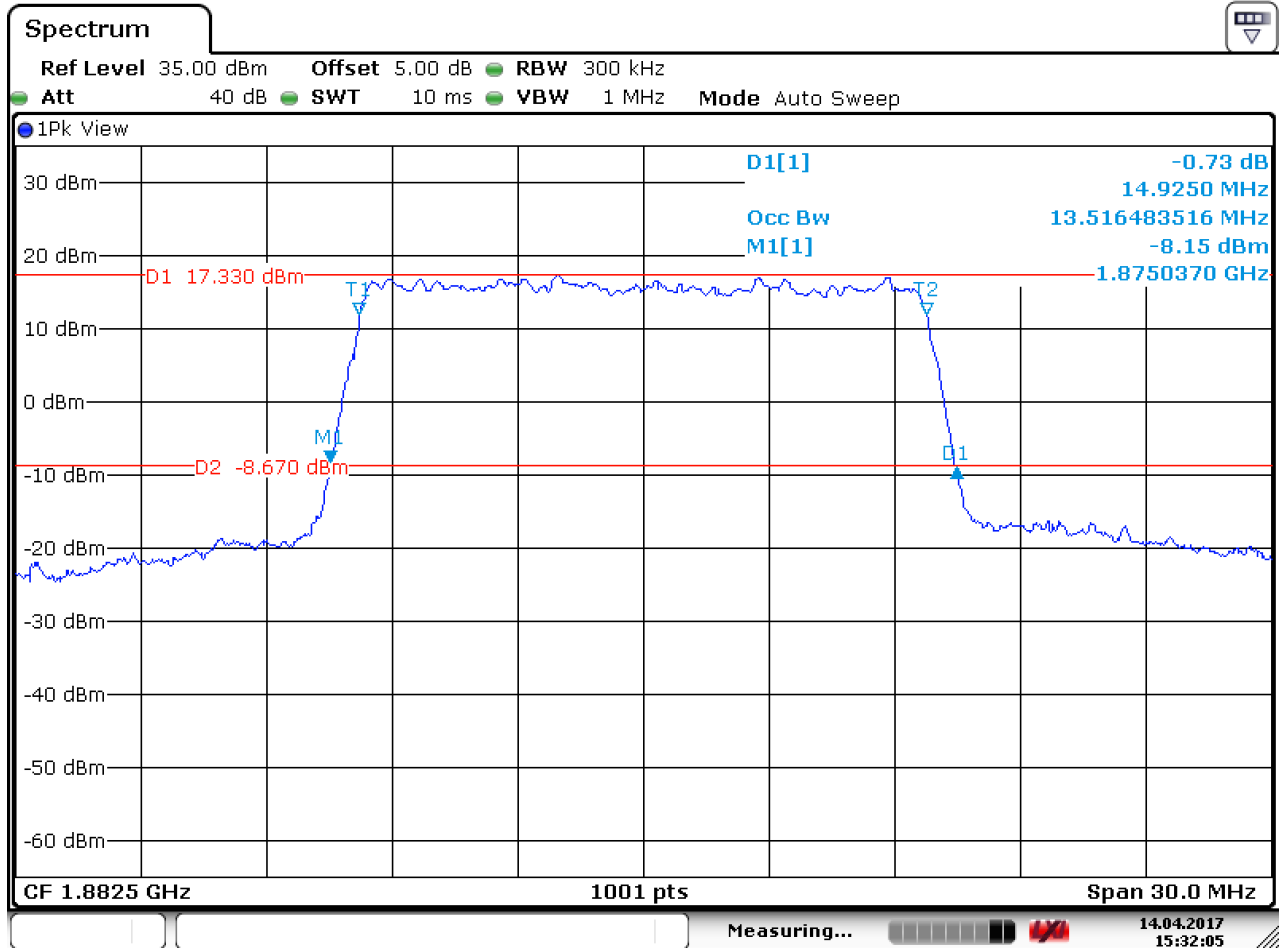
**4.1.1.9.1 Test Channel = LCH**



Date: 14.APR.2017 15:57:36



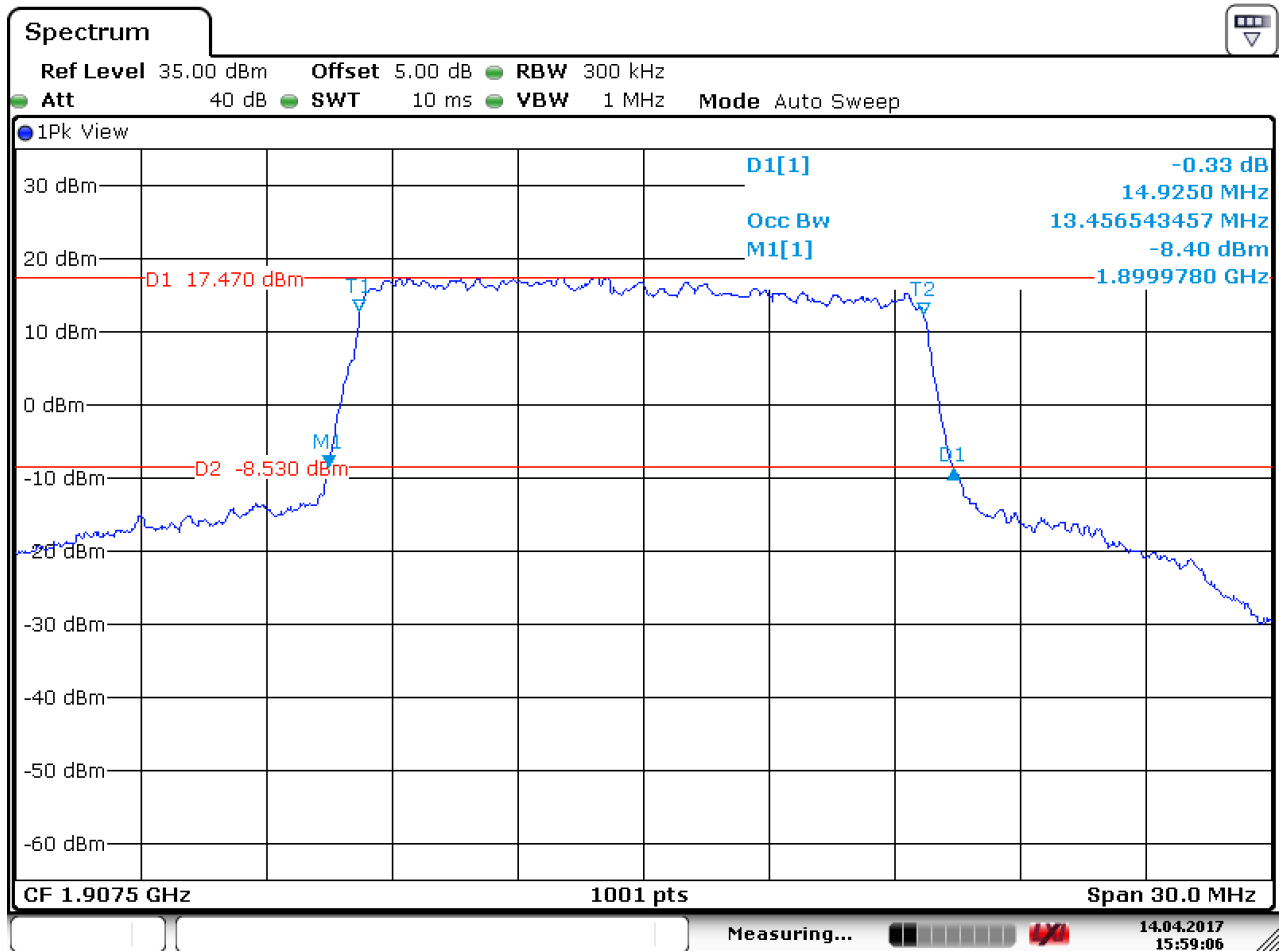
4.1.1.9.2 Test Channel = MCH



Date: 14.APR.2017 15:32:06



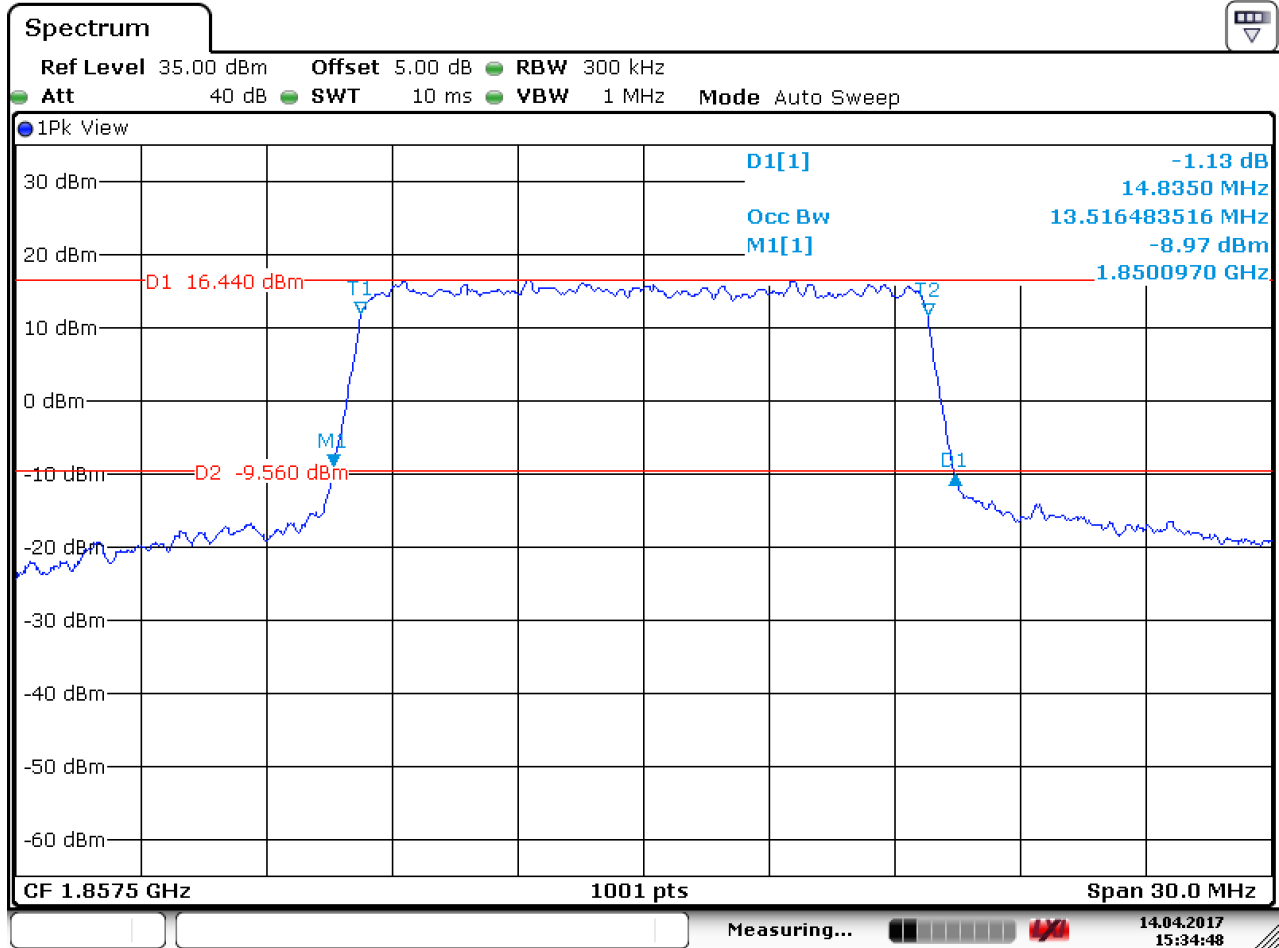
4.1.1.9.3 Test Channel = HCH



Date: 14.APR.2017 15:59:07

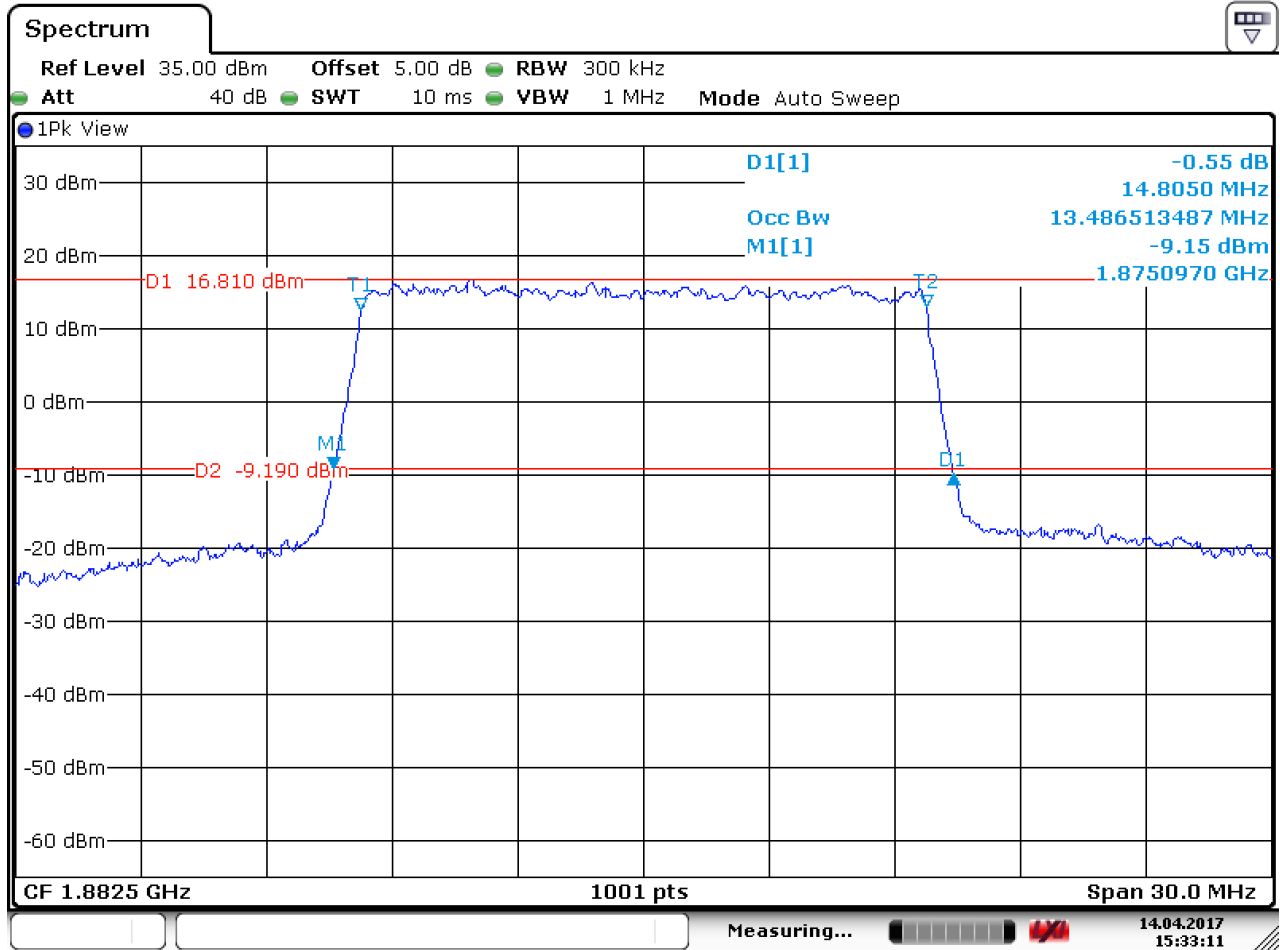
**4.1.1.10 Test Mode = LTE/TM2 15MHz**

**4.1.1.10.1 Test Channel = LCH**



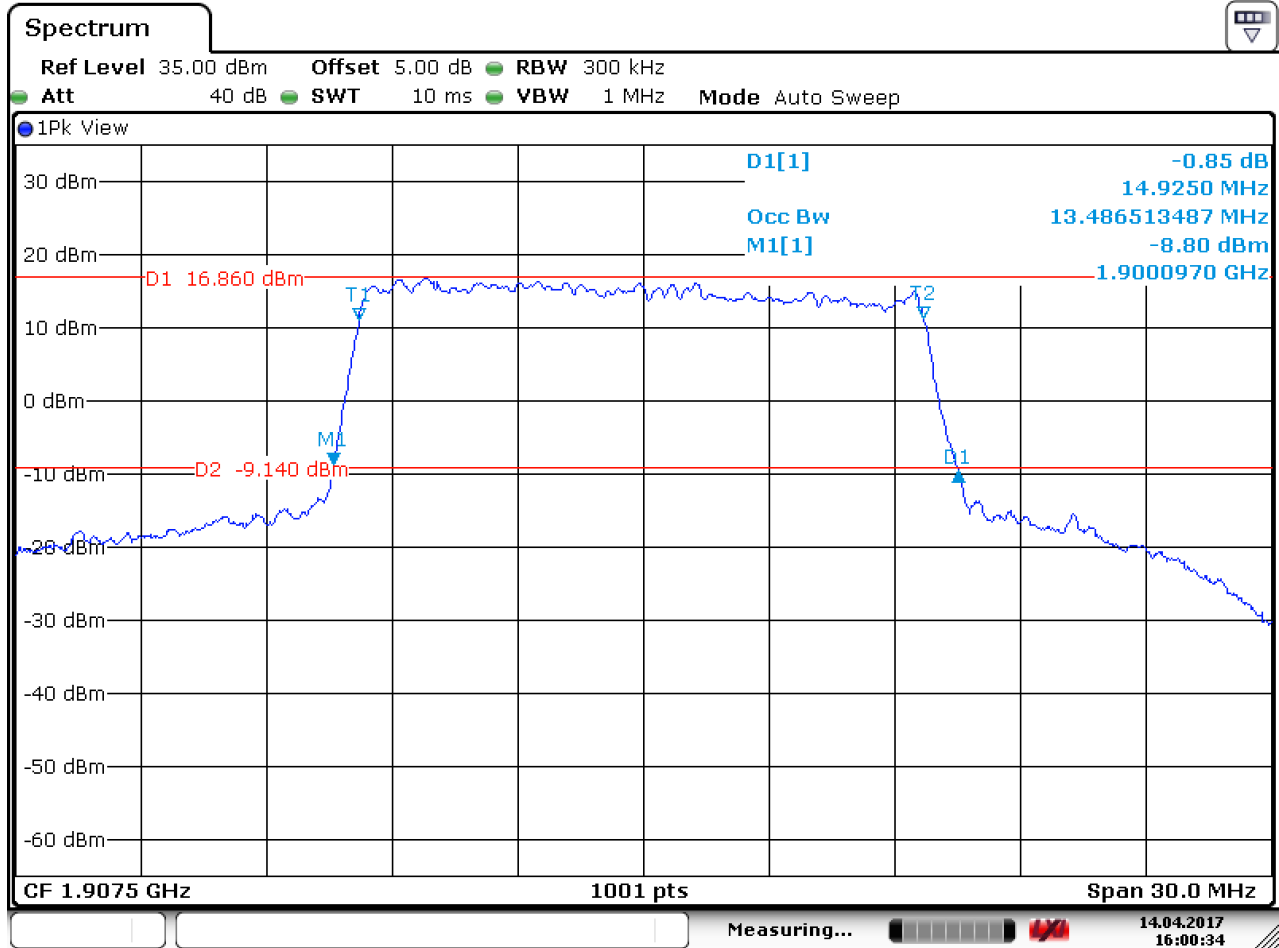
Date: 14.APR.2017 15:34:48

4.1.1.10.2 Test Channel = MCH



Date: 14.APR.2017 15:33:12

4.1.1.10.3 Test Channel = HCH

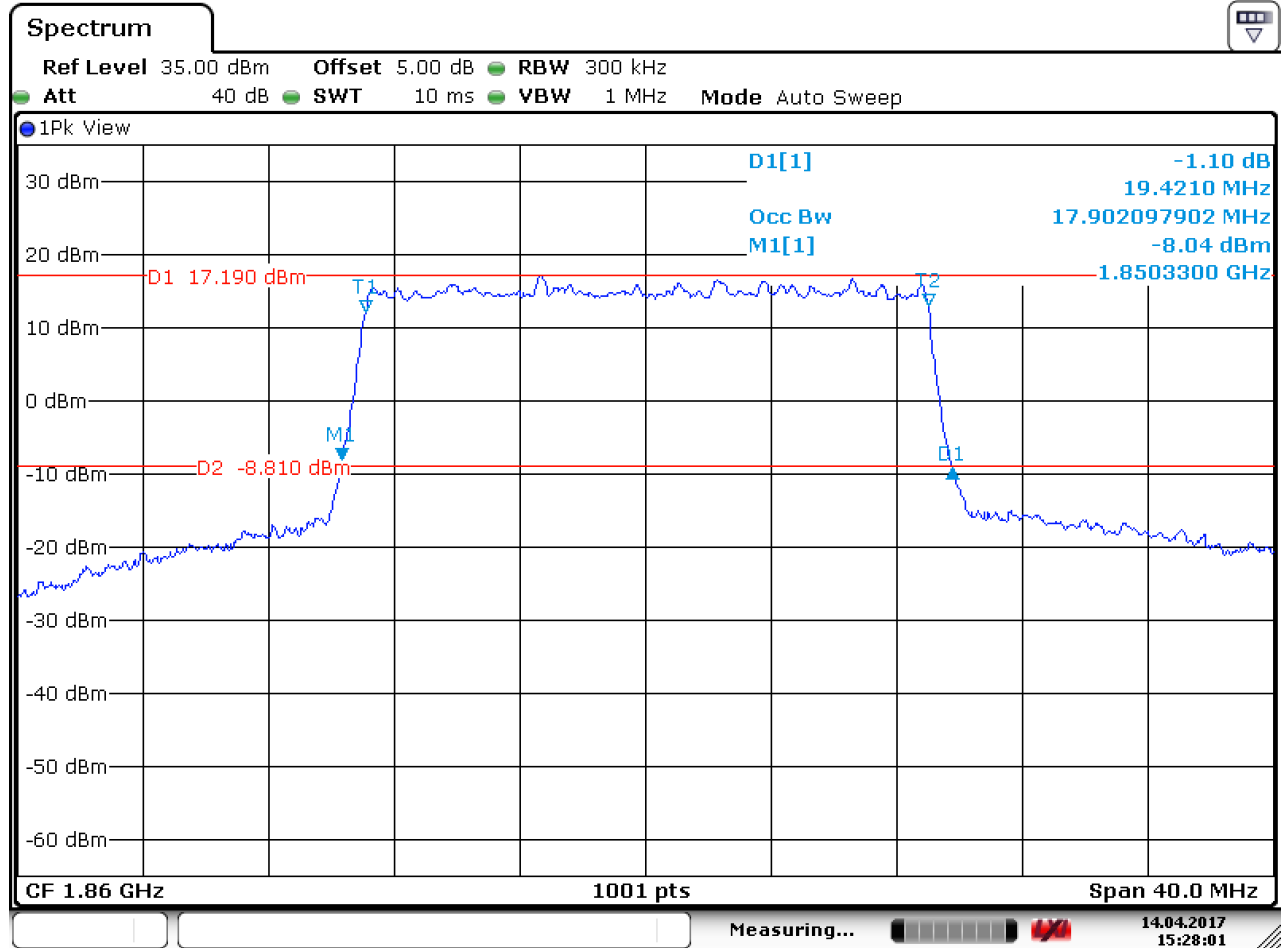


Date: 14.APR.2017 16:00:34



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

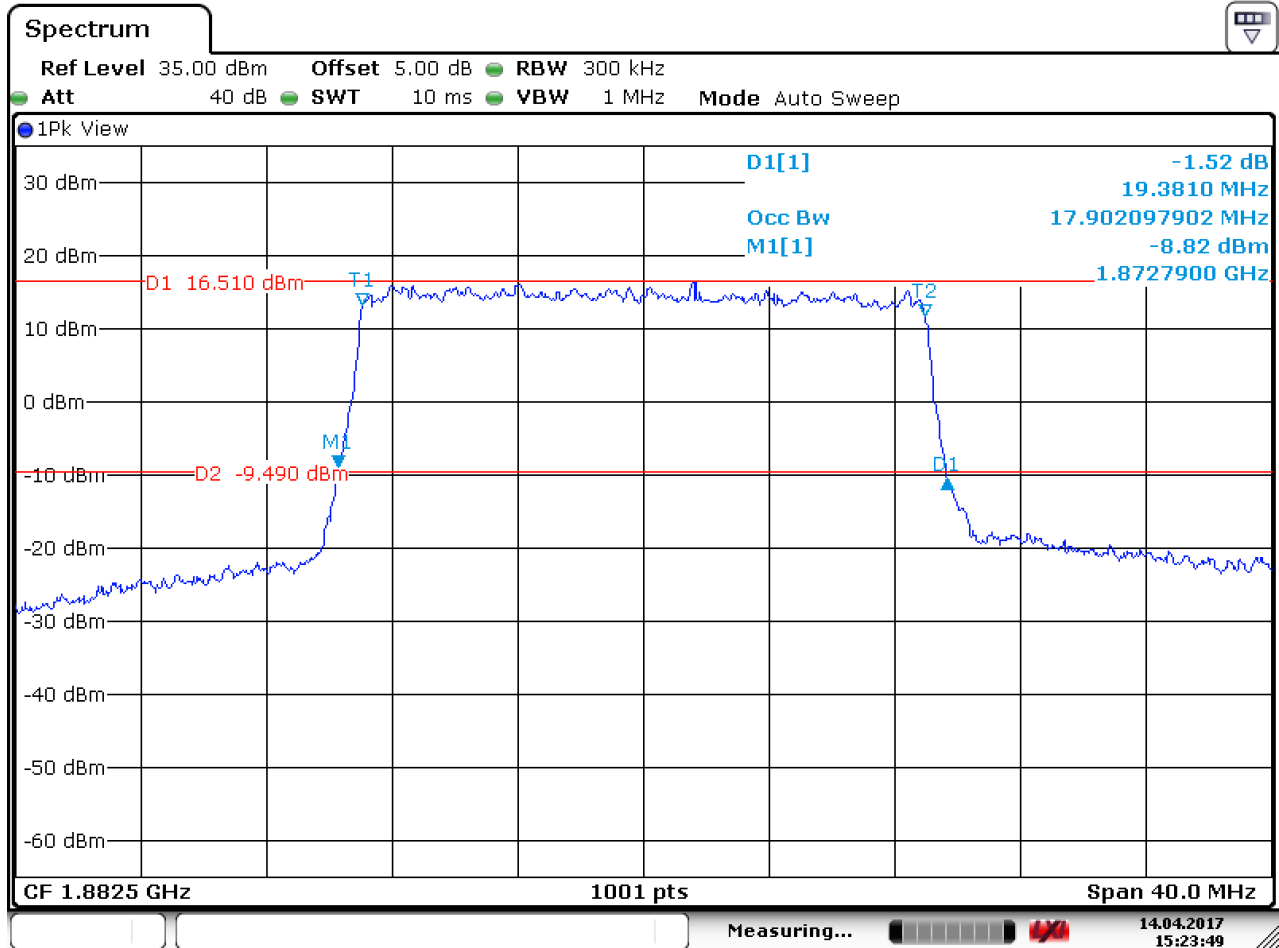
**4.1.1.11.1 Test Channel = LCH**



Date: 14.APR.2017 15:28:01



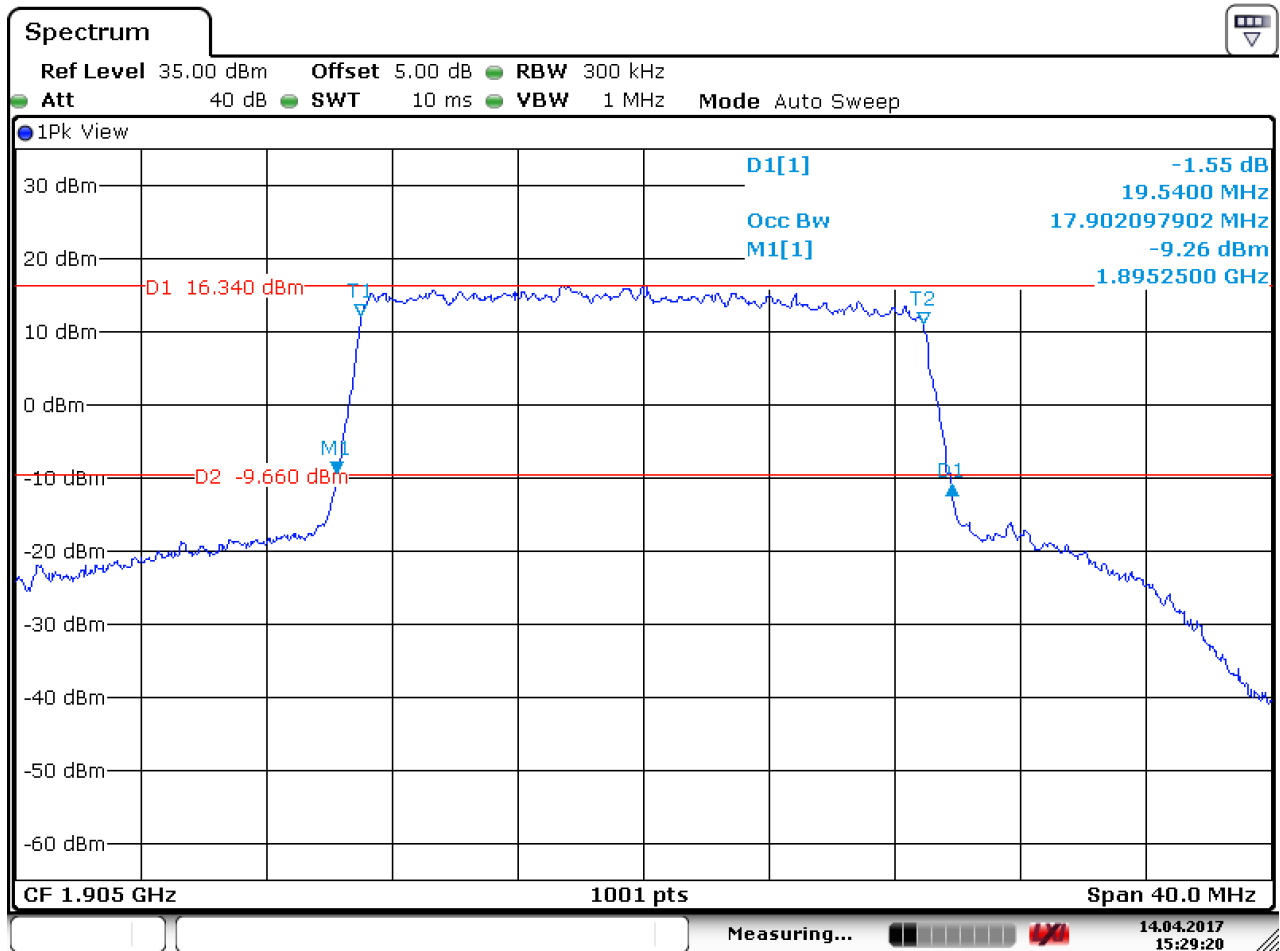
4.1.1.11.2 Test Channel = MCH



Date: 14.APR.2017 15:23:50



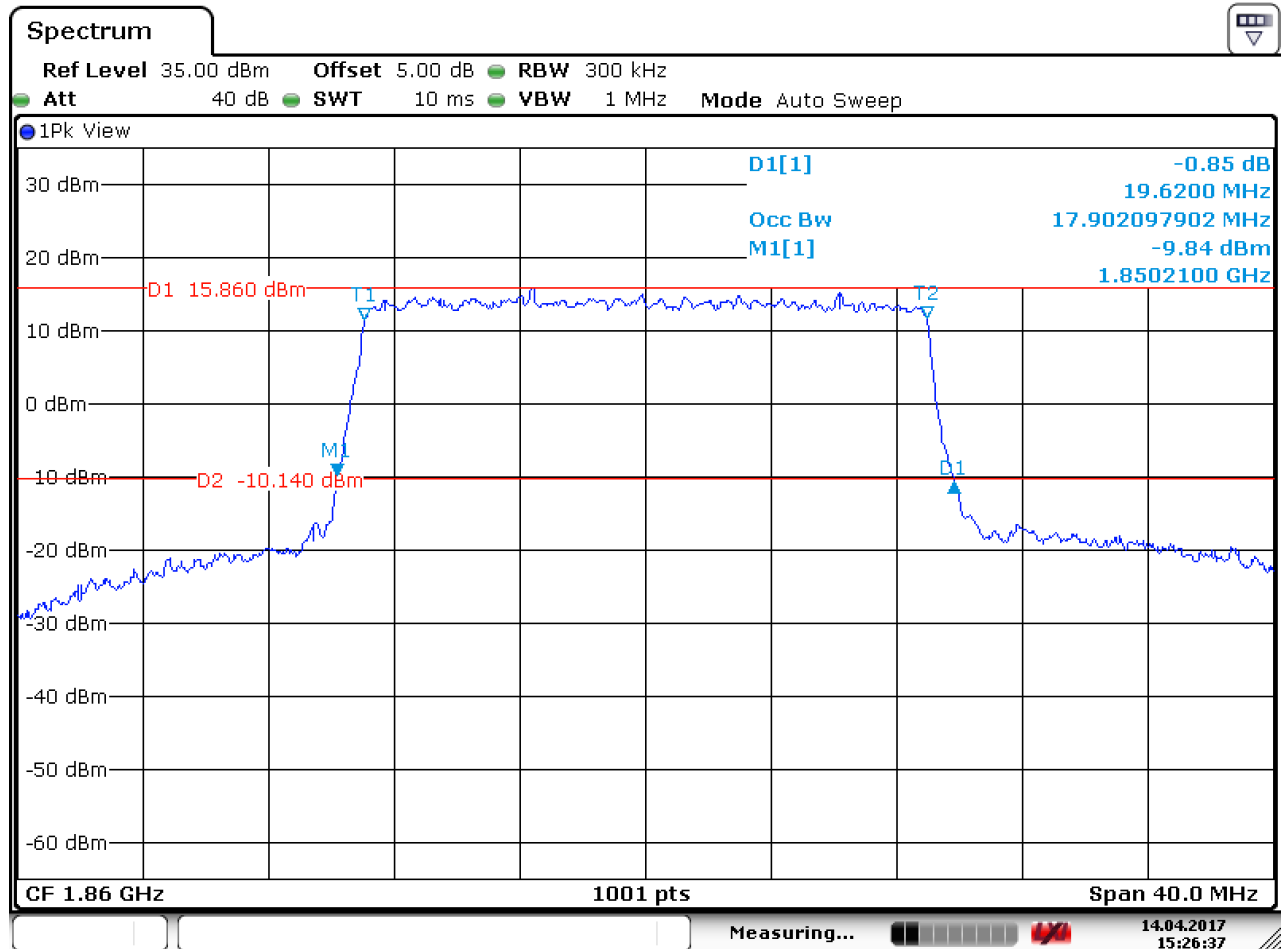
4.1.1.11.3 Test Channel = HCH



Date: 14.APR.2017 15:29:21

**4.1.1.12 Test Mode = LTE/TM2 20MHz**

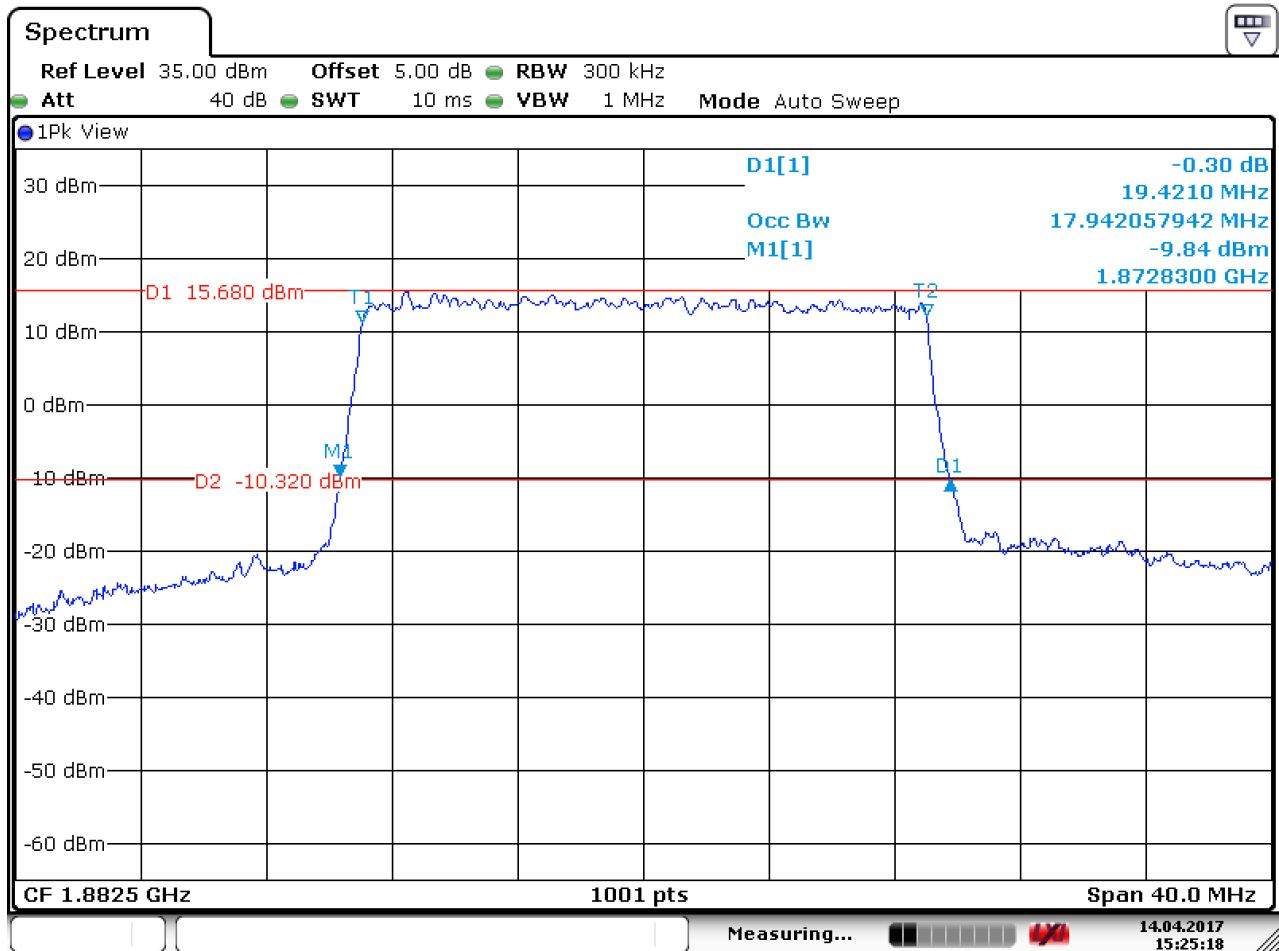
**4.1.1.12.1 Test Channel = LCH**



Date: 14.APR.2017 15:26:37



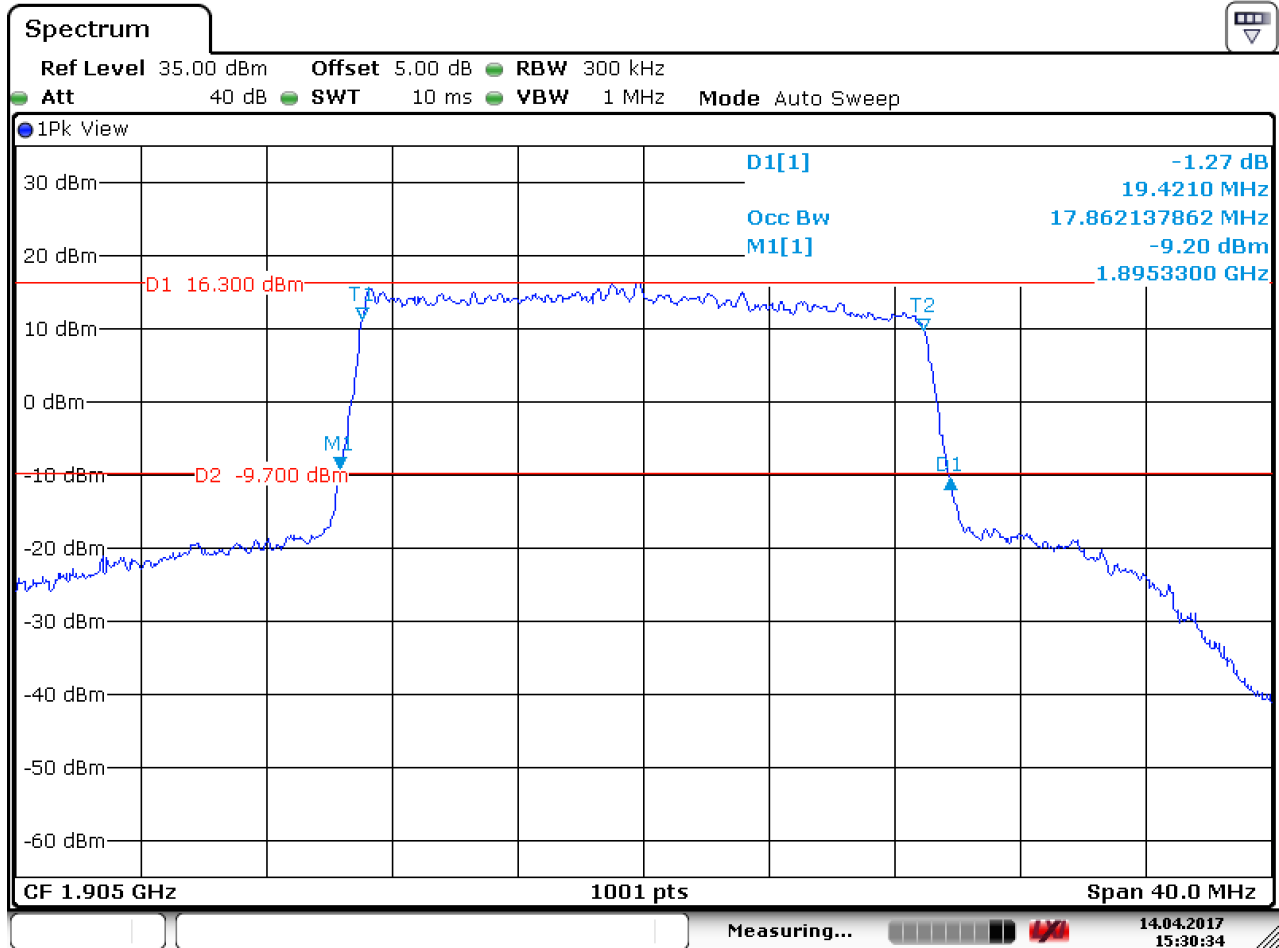
4.1.1.12.2 Test Channel = MCH



Date: 14.APR.2017 15:25:18



4.1.1.12.3 Test Channel = HCH



Date: 14.APR.2017 15:30:35

## 5 Band Edges Compliance

Part I –

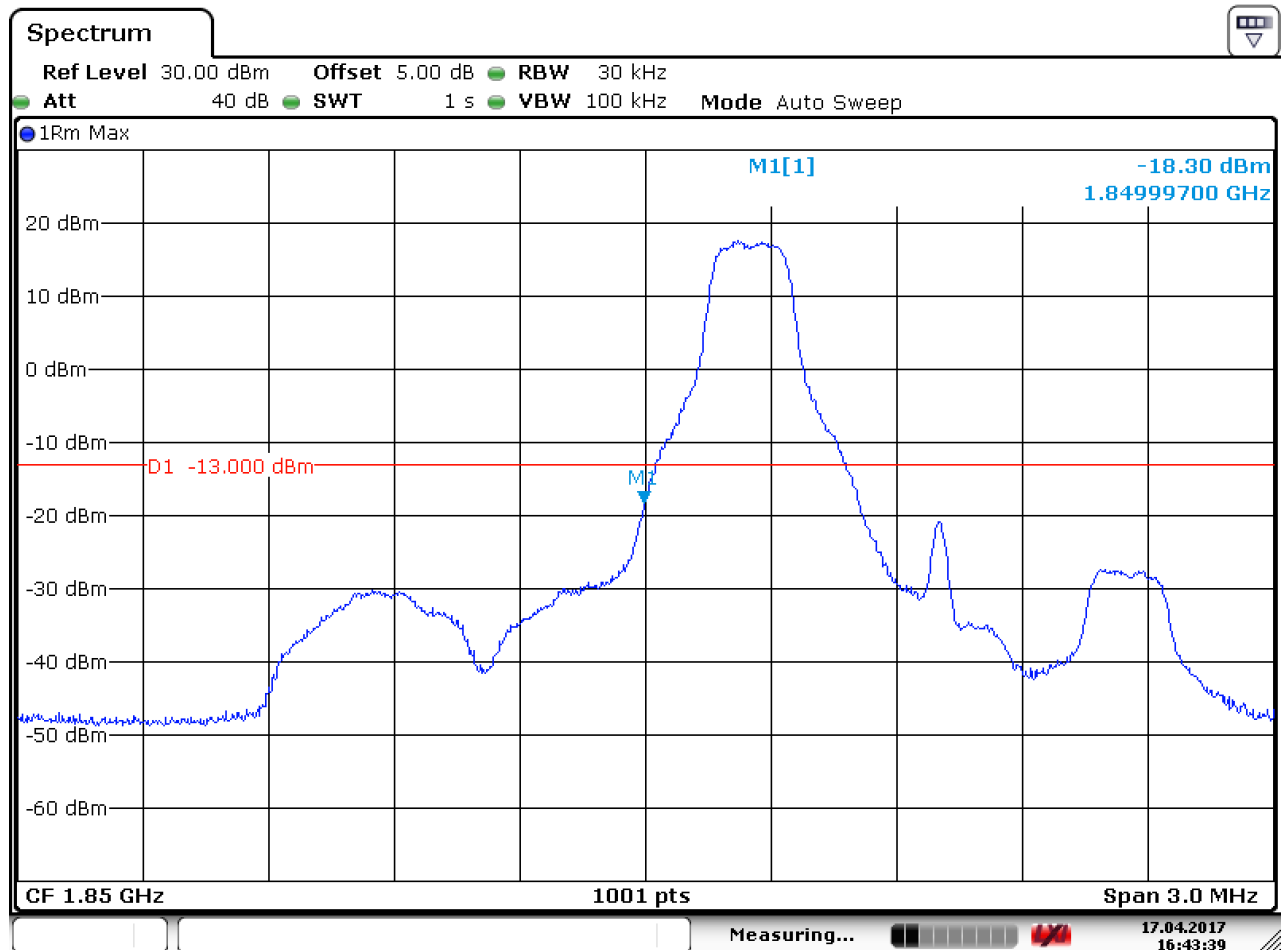
### 5.1 For LTE

#### 5.1.1 Test Band = LTE band25

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

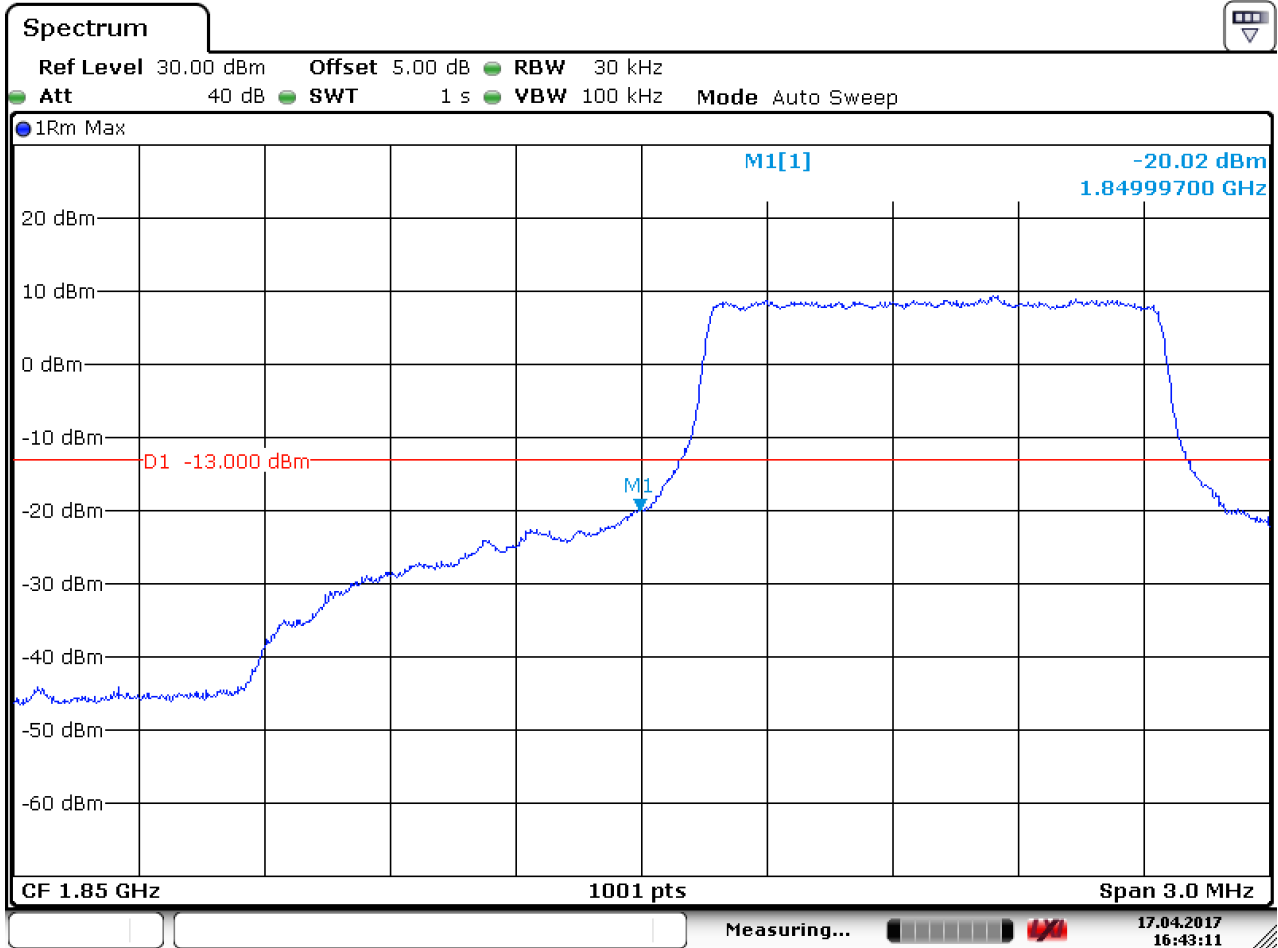
##### 5.1.1.1.1 Test Channel = LCH

##### 5.1.1.1.1.1 Test RB=1RB



Date: 17.APR.2017 16:43:40

**5.1.1.1.2 Test RB=6RB**

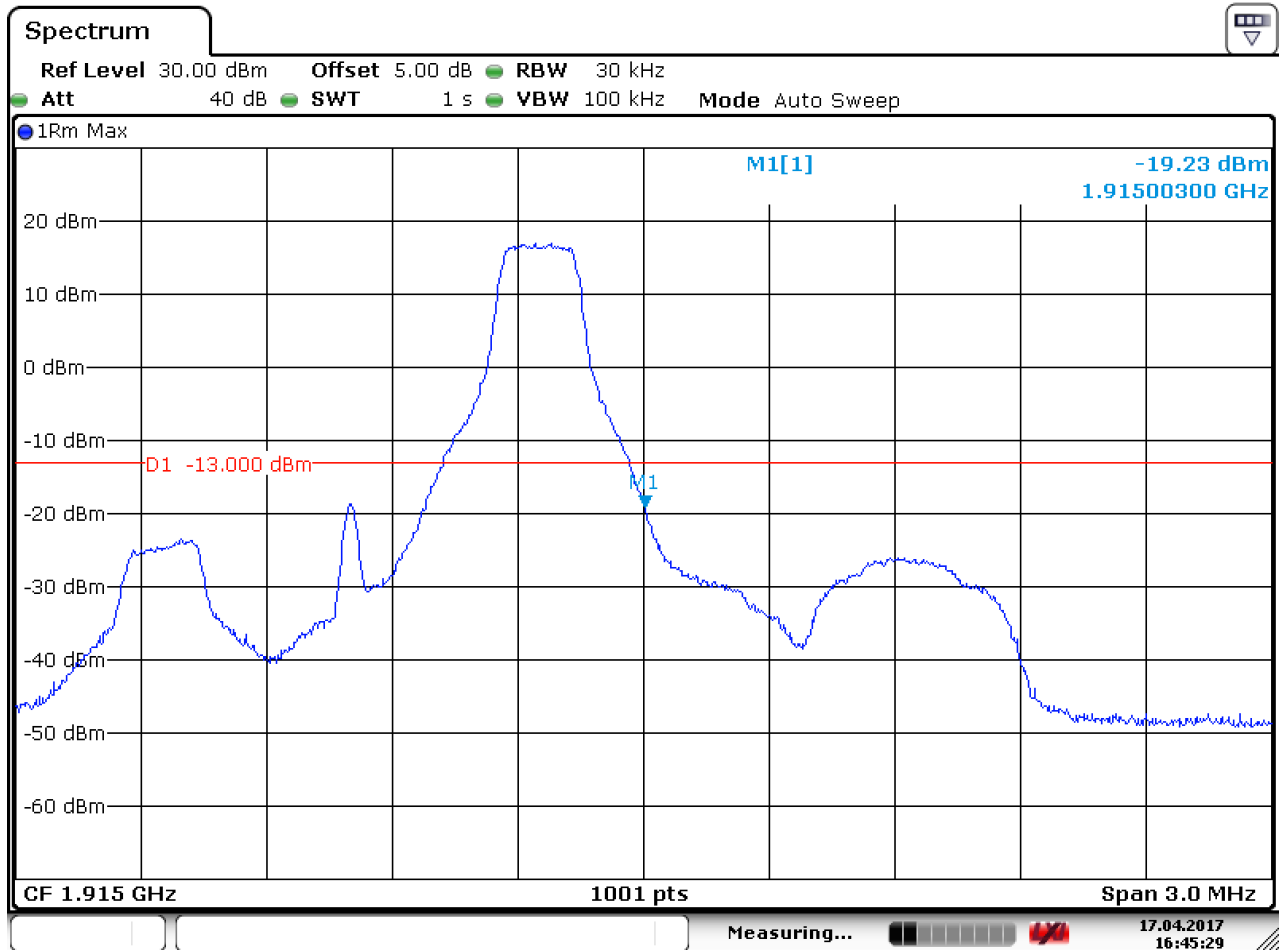


Date: 17.APR.2017 16:43:11



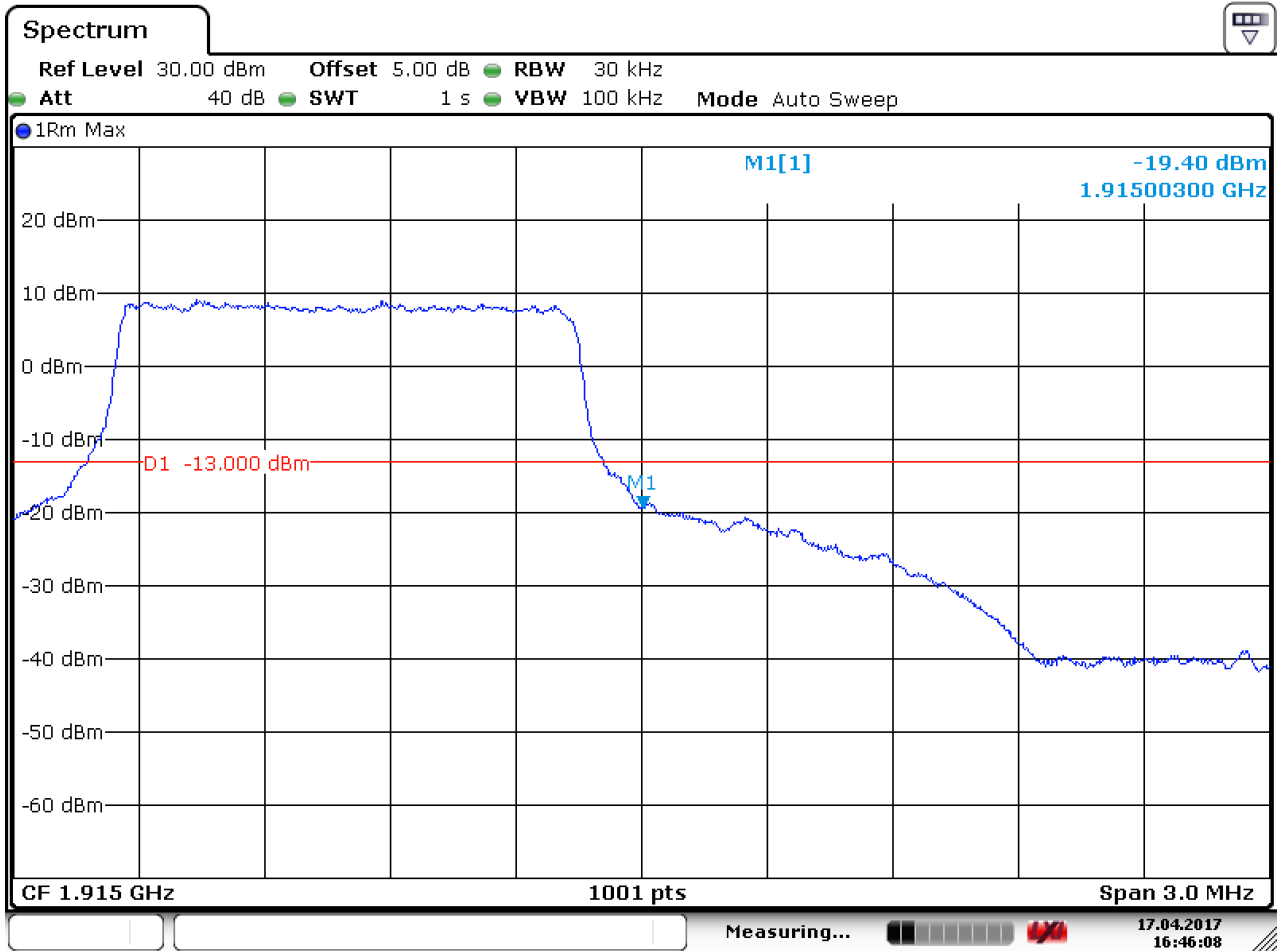
5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 17.APR.2017 16:45:29

**5.1.1.1.2.2 Test RB=6RB**

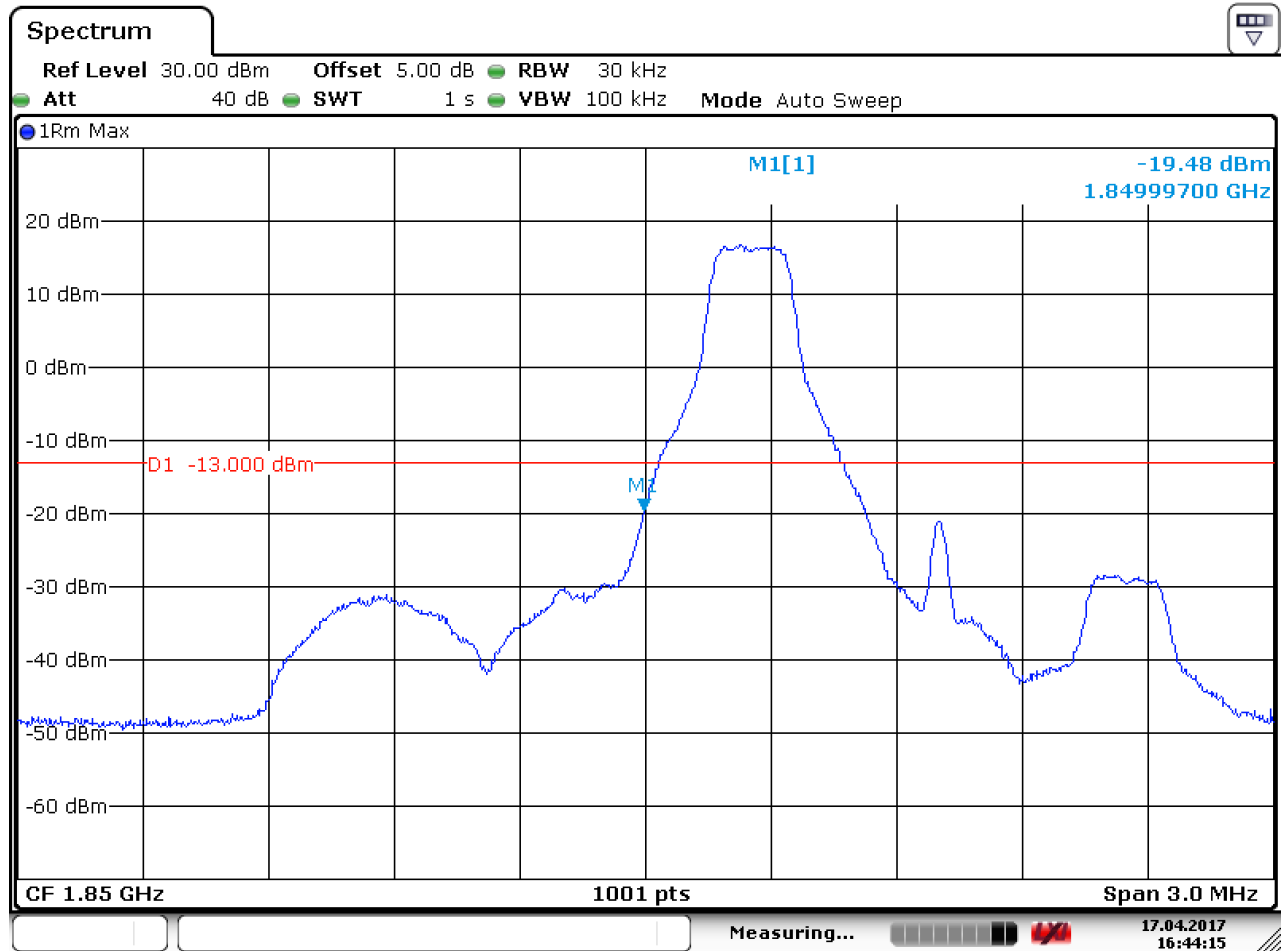


Date: 17.APR.2017 16:46:09



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

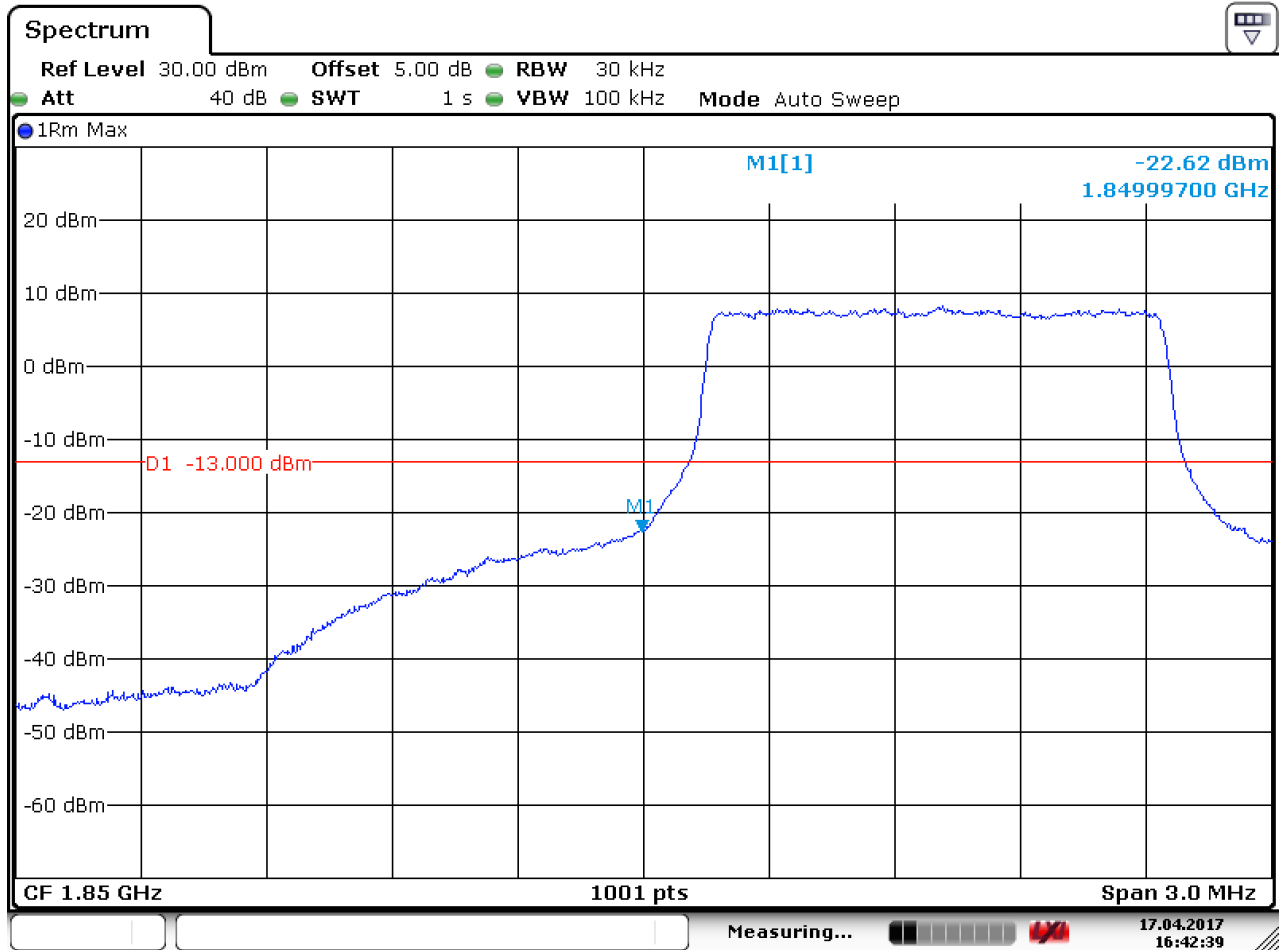
5.1.1.2.1.1 Test RB=1RB



Date: 17.APR.2017 16:44:15



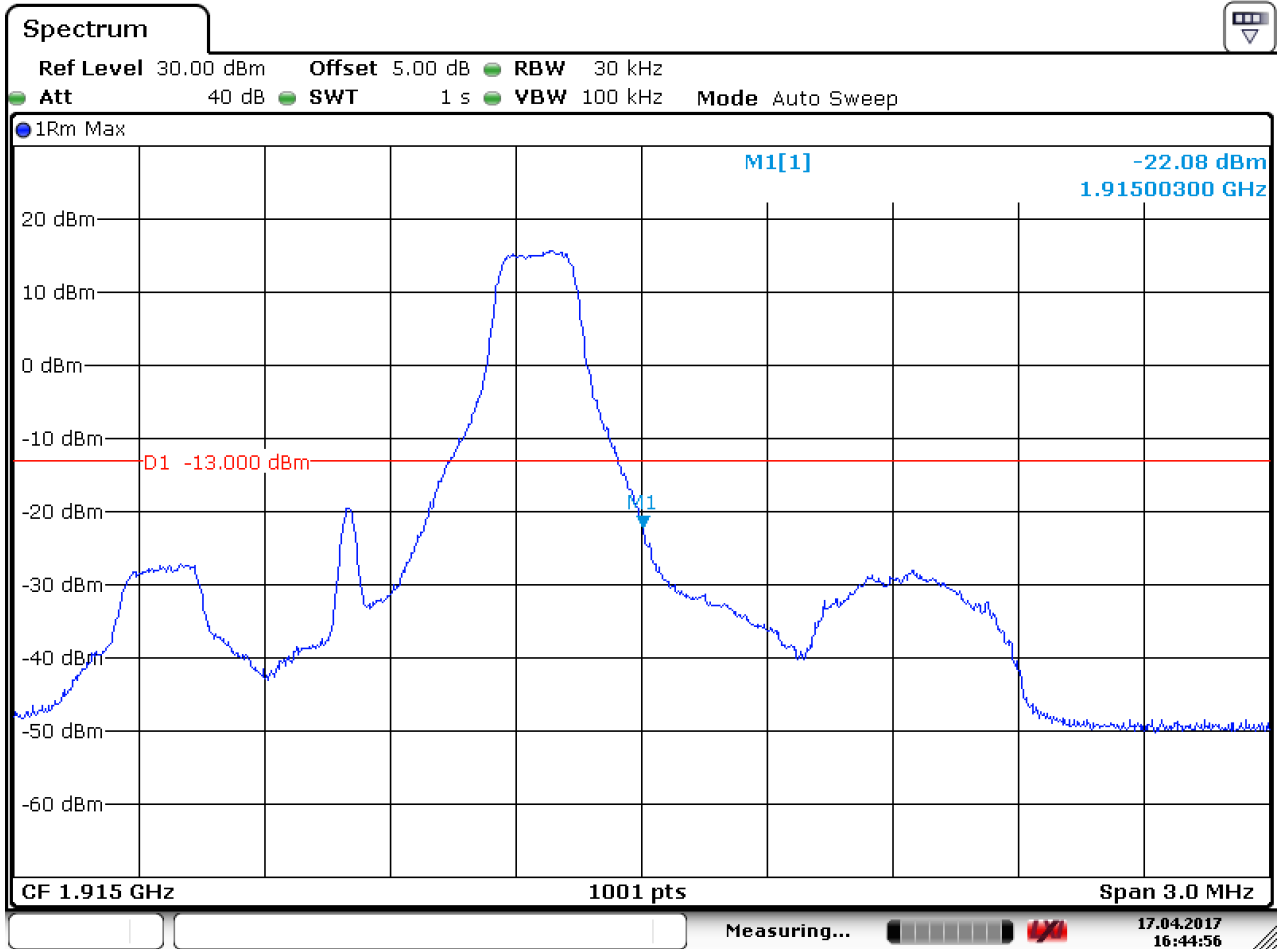
5.1.1.2.1.2 Test RB=6RB



Date: 17.APR.2017 16:42:39

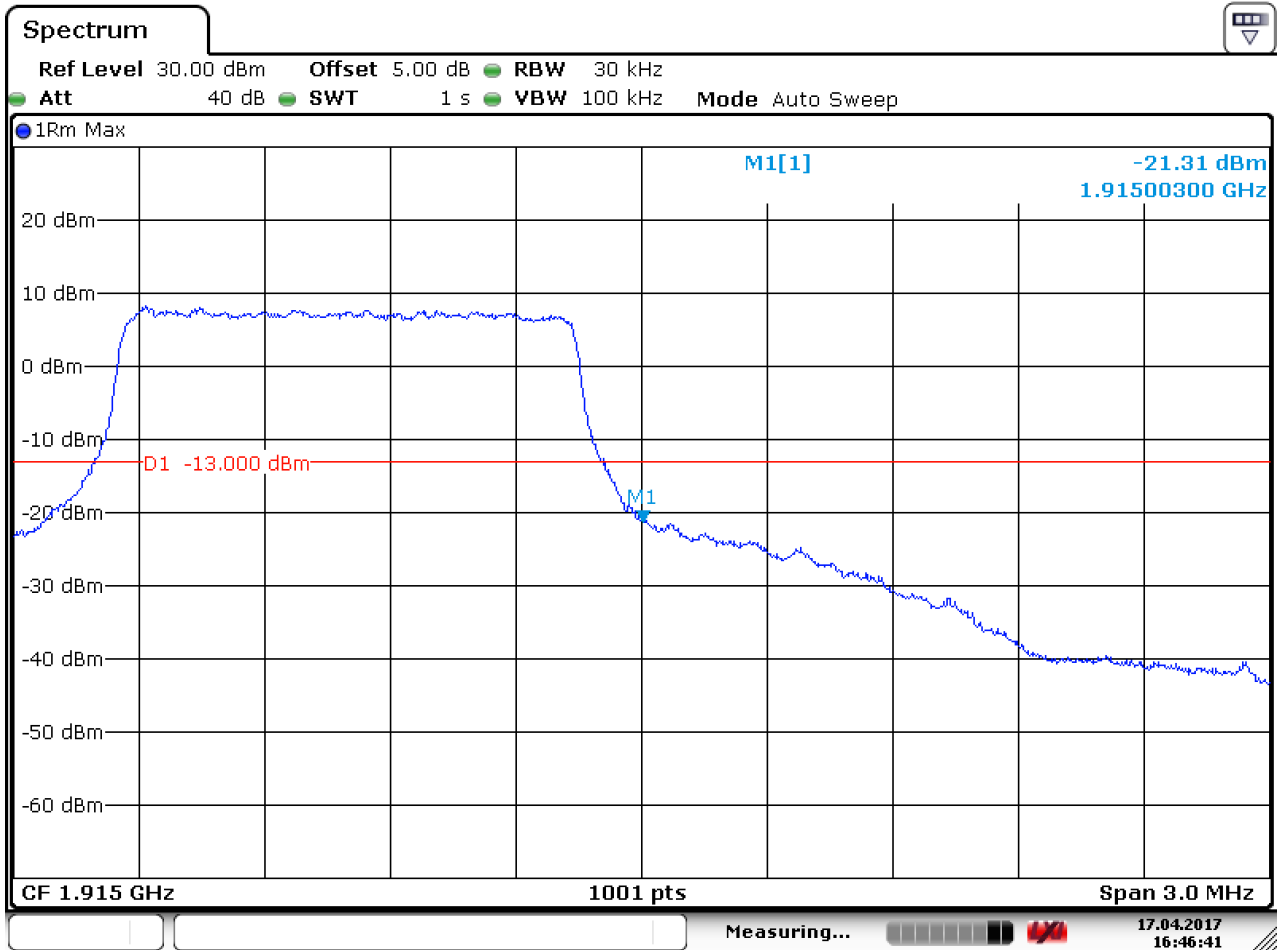
5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



Date: 17.APR.2017 16:44:57

5.1.1.2.2.2 Test RB=6RB



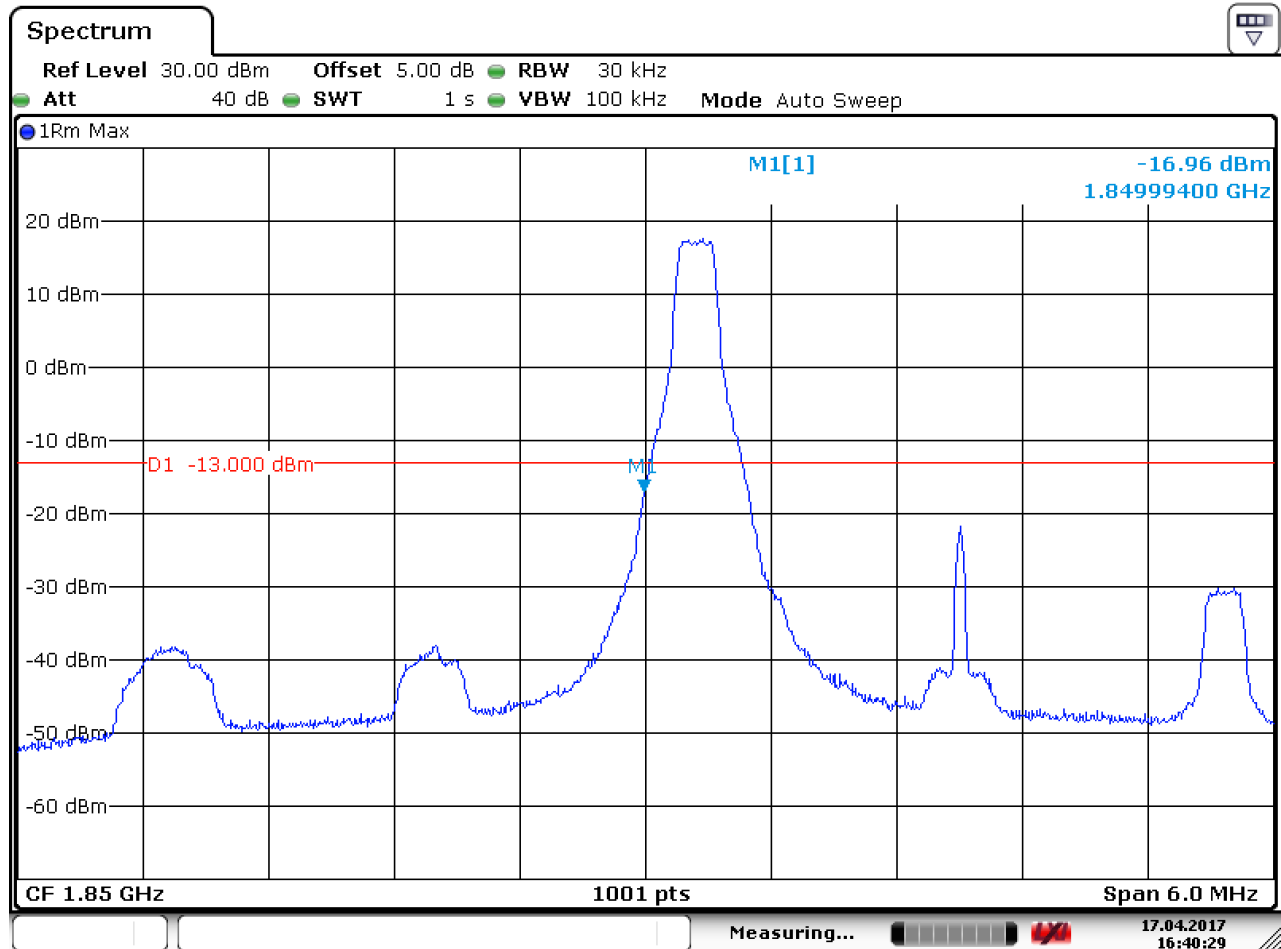
Date: 17.APR.2017 16:46:40



5.1.1.3 Test Mode = LTE/TM1 3MHz

5.1.1.3.1 Test Channel = LCH

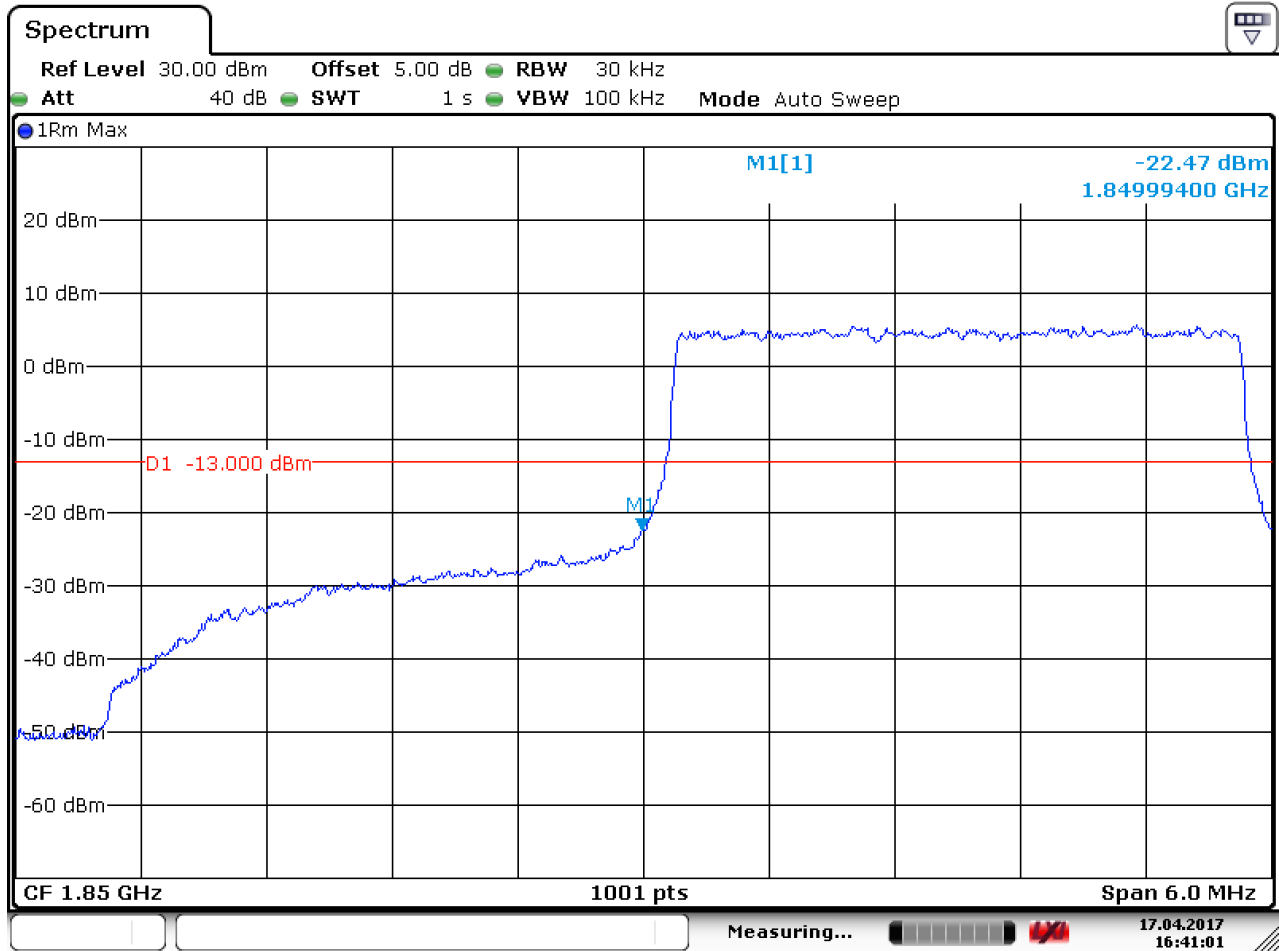
5.1.1.3.1.1 Test RB=1RB



Date: 17.APR.2017 16:40:29



5.1.1.3.1.2 Test RB=15RB

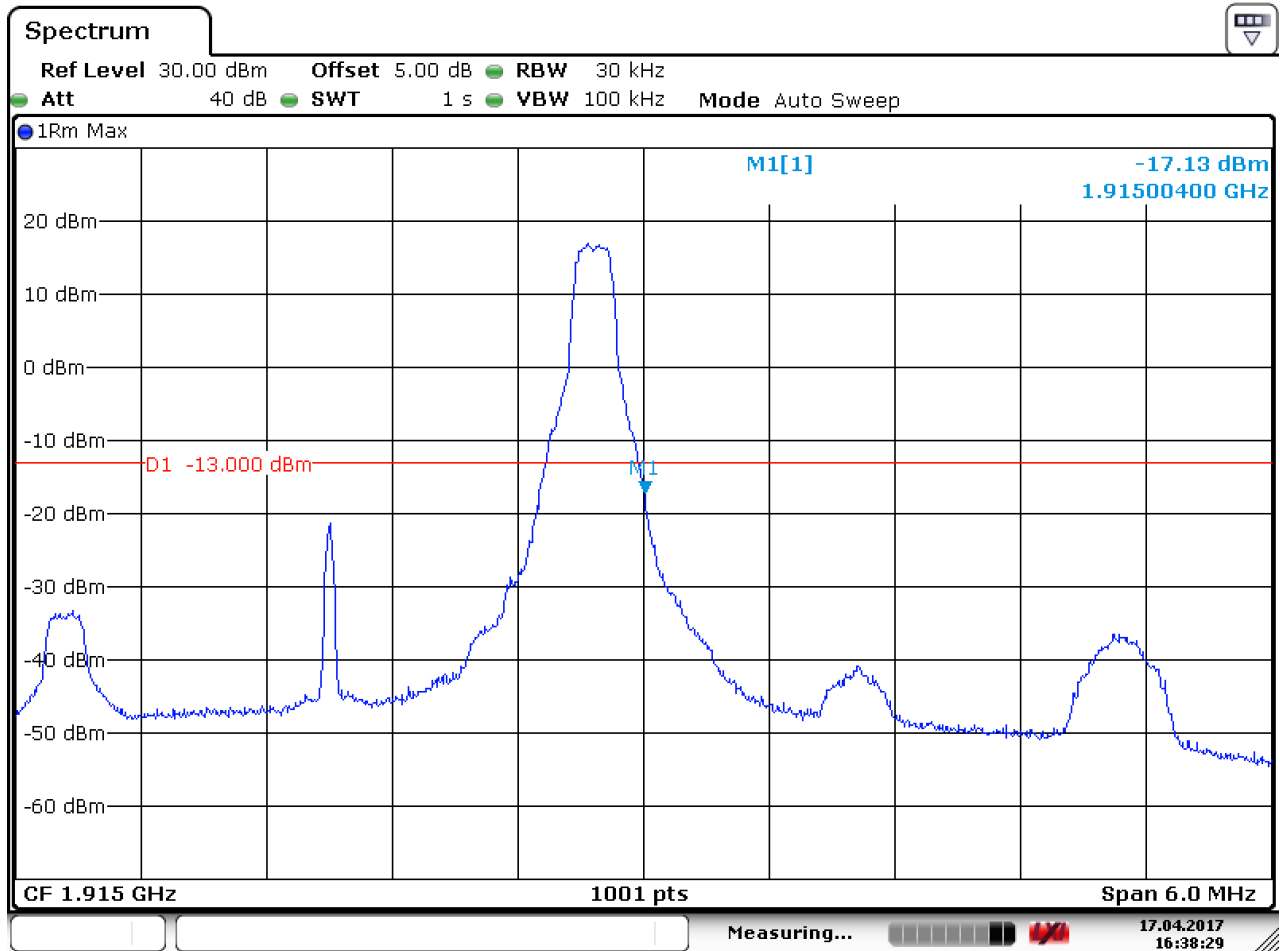


Date: 17.APR.2017 16:41:01



5.1.1.3.2 Test Channel = HCH

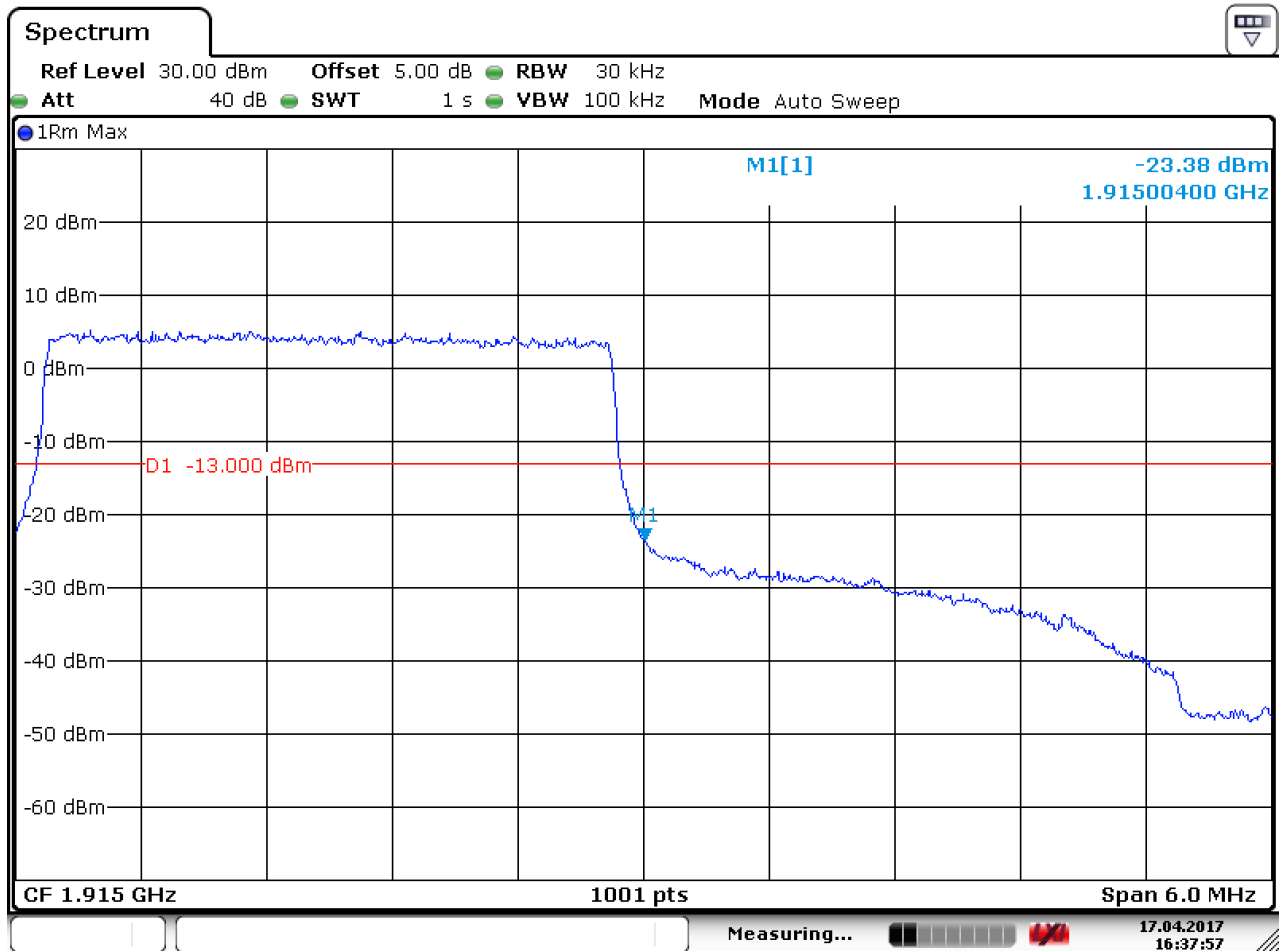
5.1.1.3.2.1 Test RB=1RB



Date: 17.APR.2017 16:38:29



5.1.1.3.2.2 Test RB=15RB



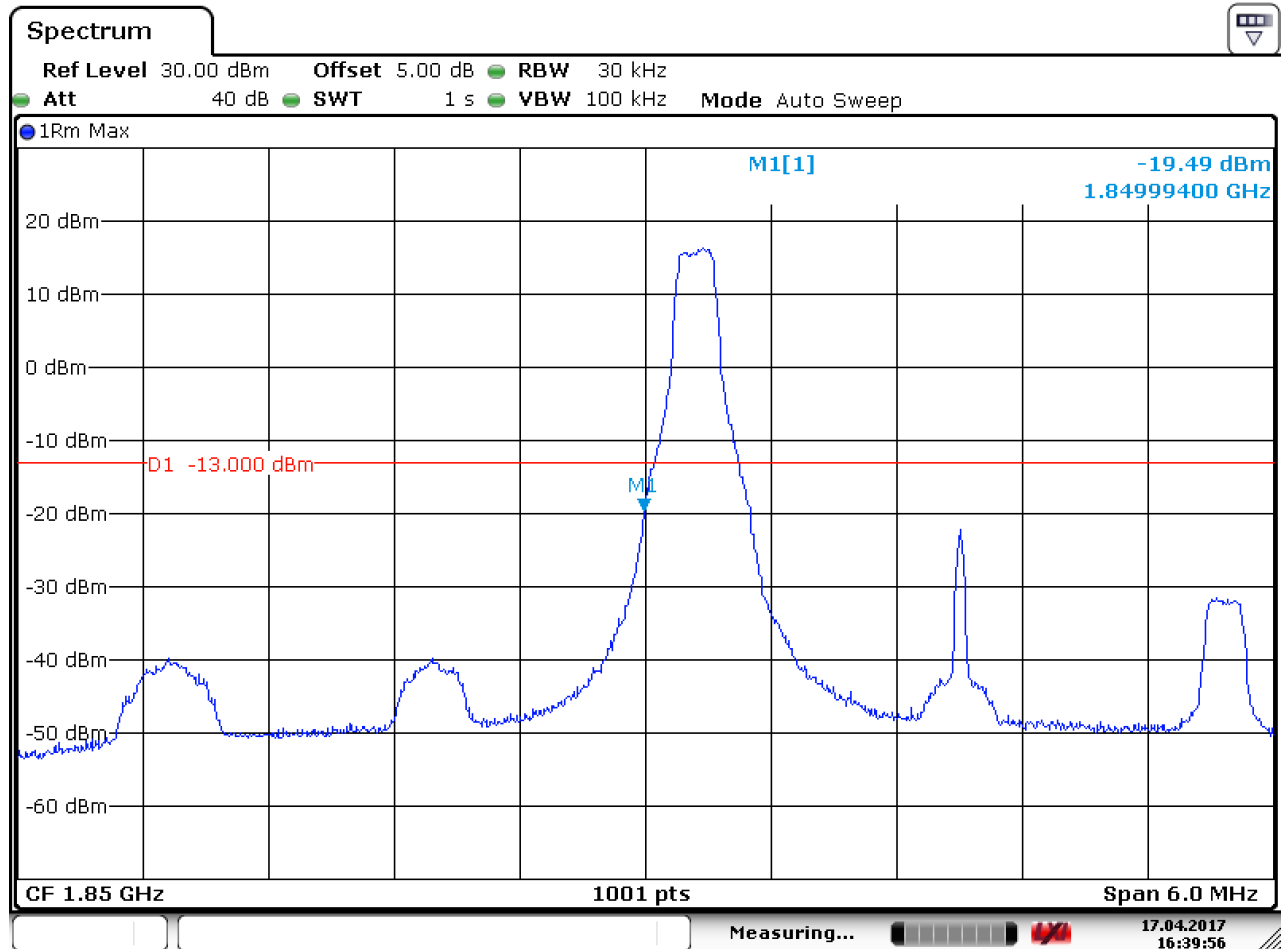
Date: 17.APR.2017 16:37:58



5.1.1.4 Test Mode = LTE/TM2 3MHz

5.1.1.4.1 Test Channel = LCH

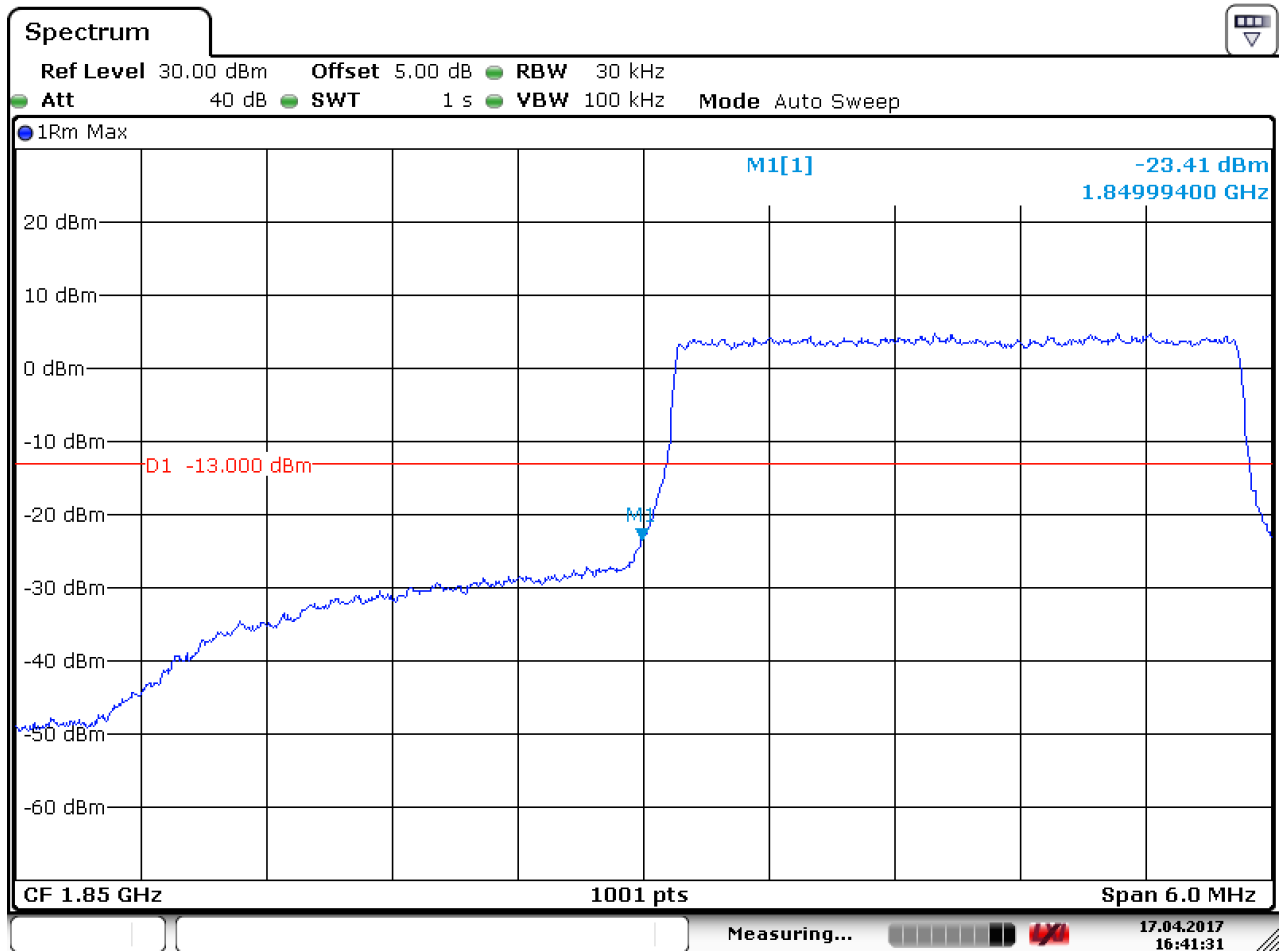
5.1.1.4.1.1 Test RB=1RB



Date: 17.APR.2017 16:39:56



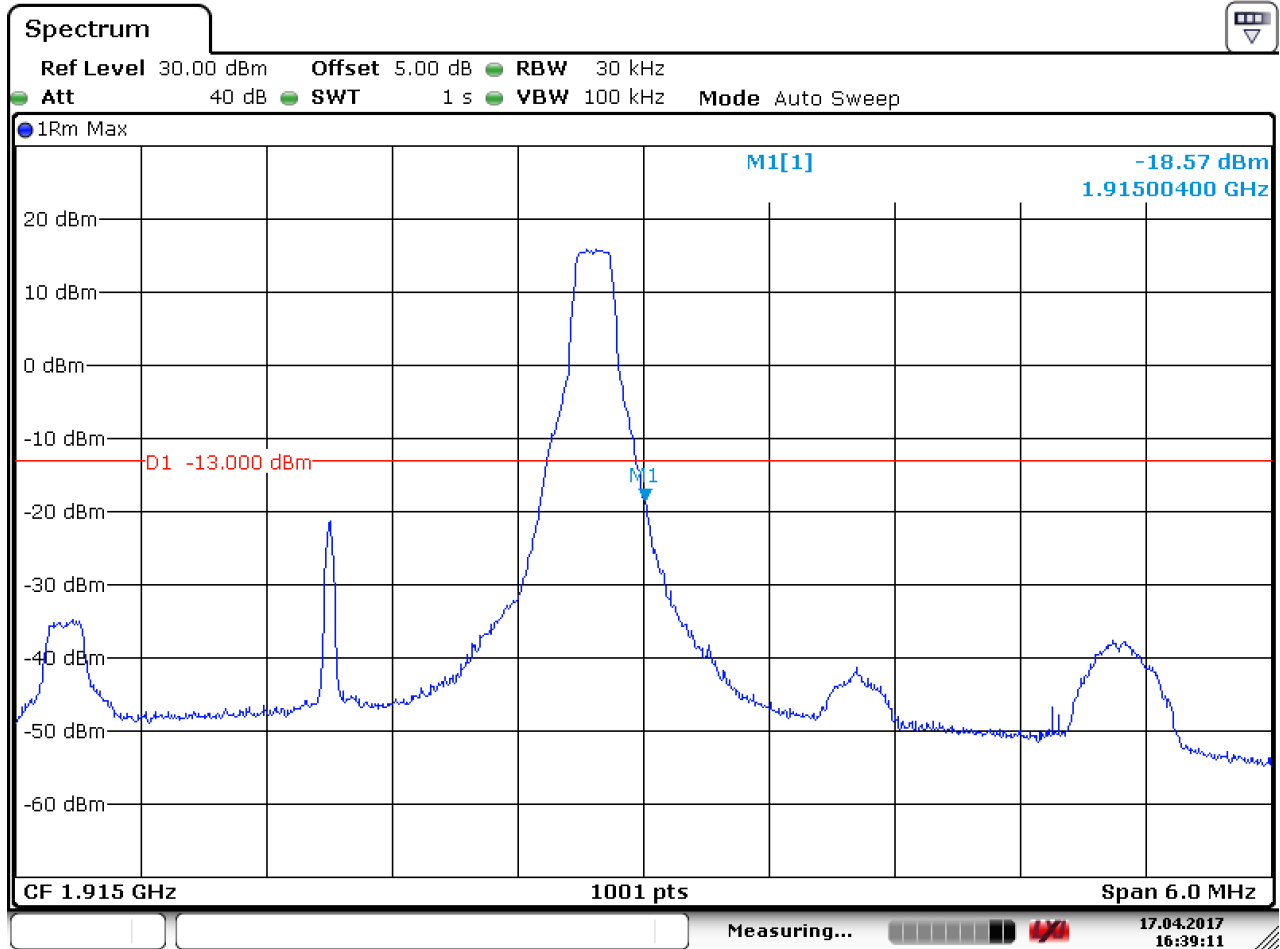
5.1.1.4.1.2 Test RB=15RB



Date: 17.APR.2017 16:41:32

5.1.1.4.2 Test Channel = HCH

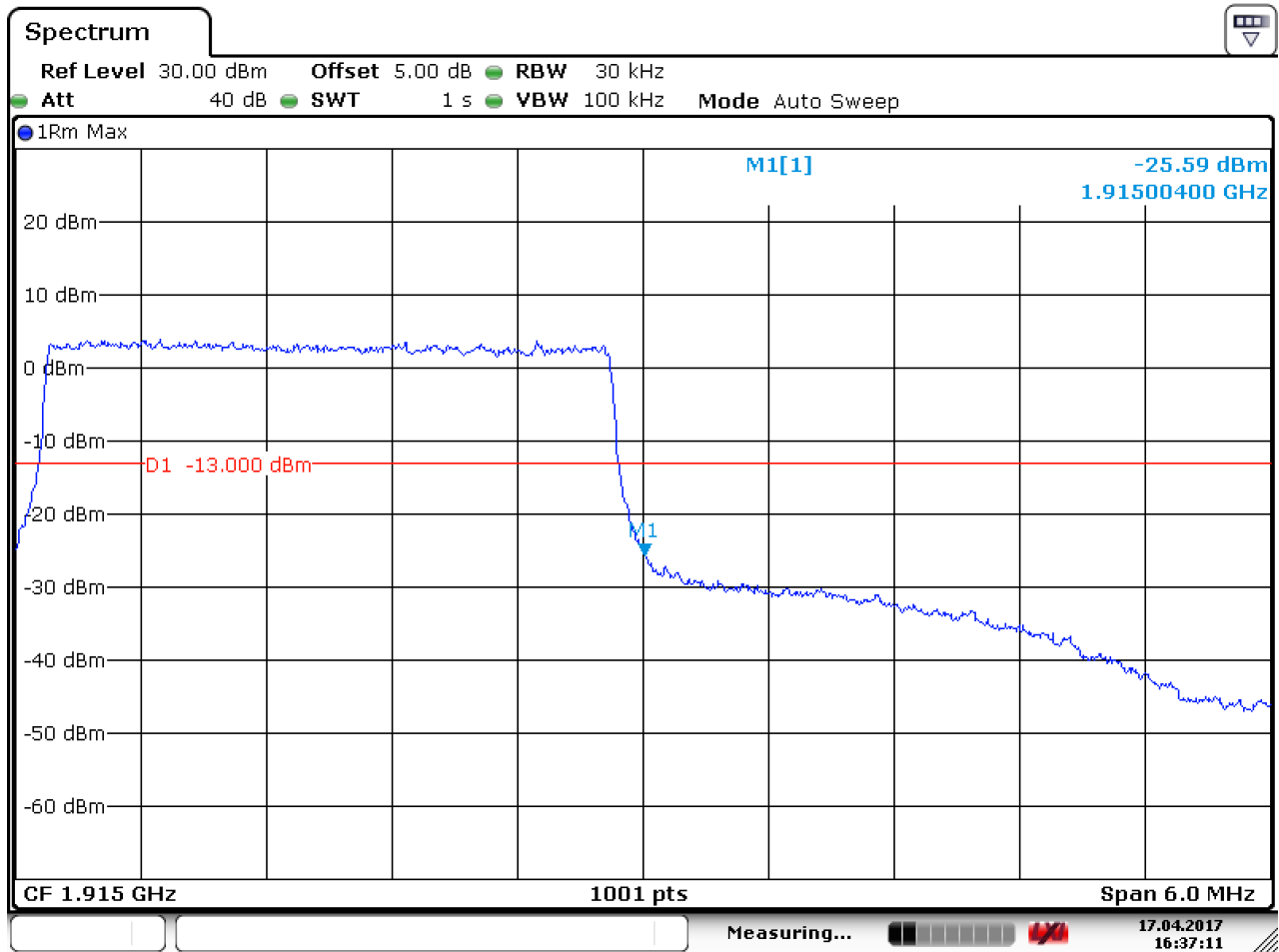
5.1.1.4.2.1 Test RB=1RB



Date: 17.APR.2017 16:39:12



5.1.1.4.3 Test RB=15RB

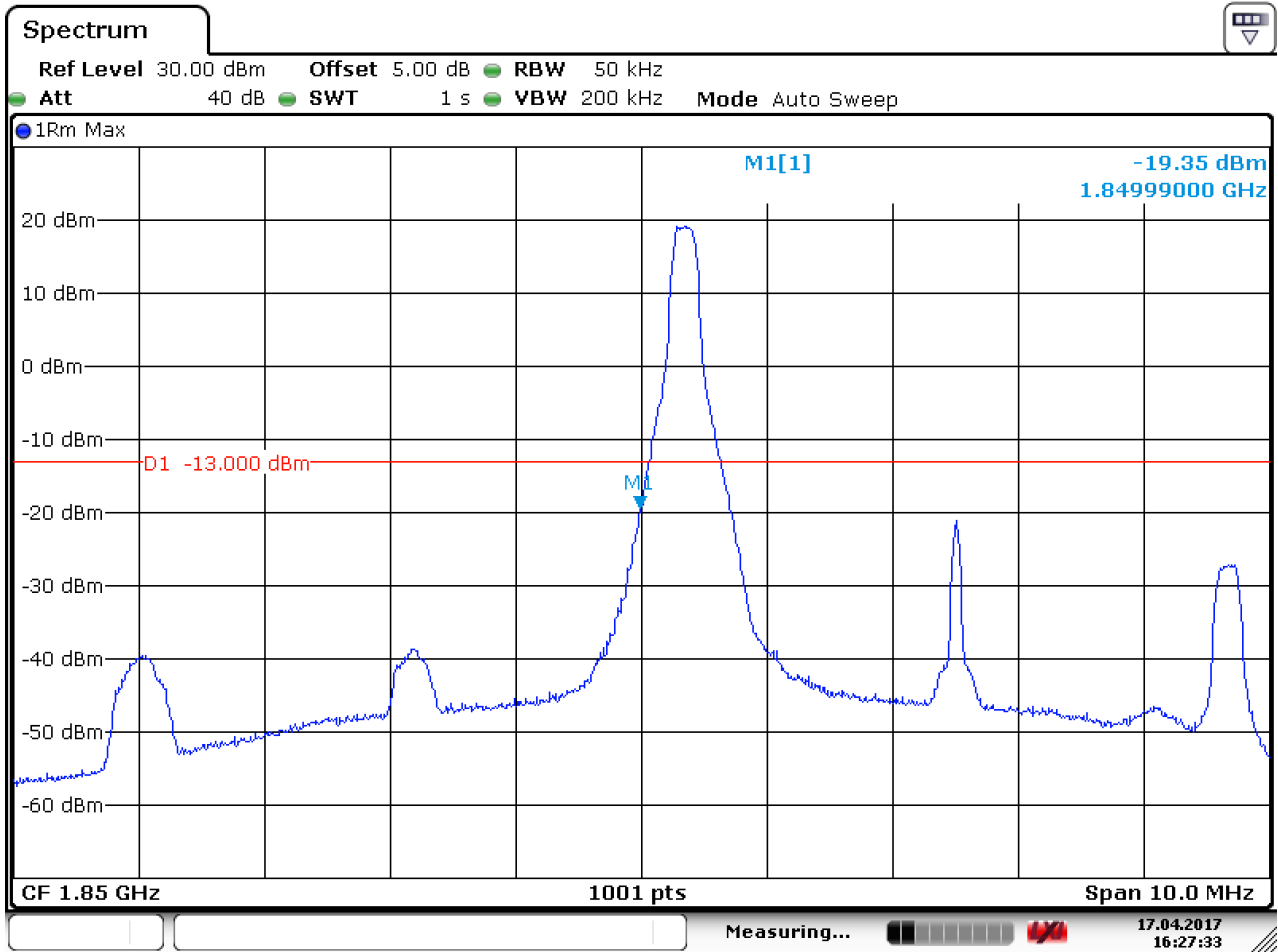


Date: 17.APR.2017 16:37:11

**5.1.1.5 Test Mode = LTE/TM1 5MHz**

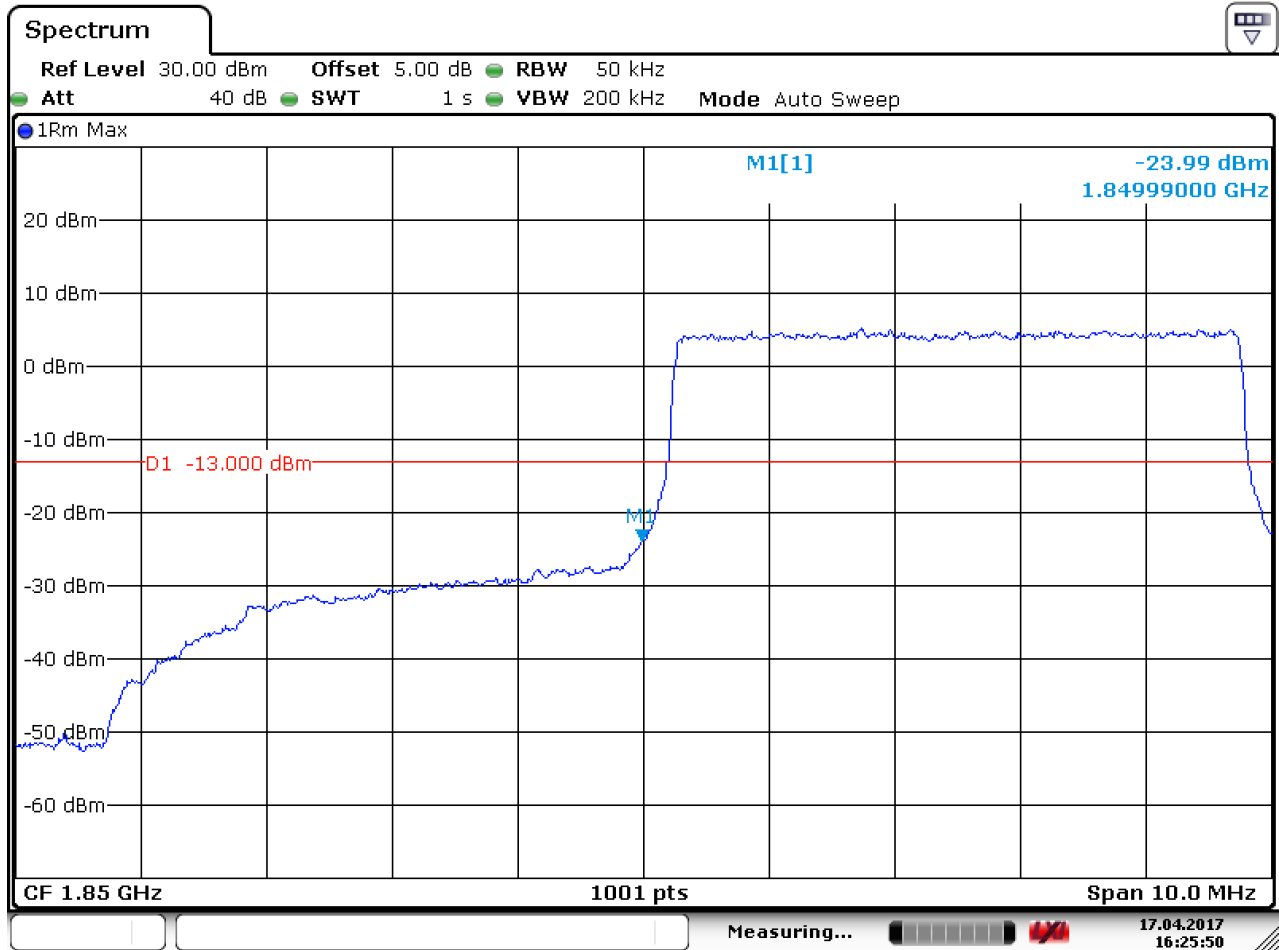
**5.1.1.5.1 Test Channel = LCH**

**5.1.1.5.1.1 Test RB=1RB**



Date: 17.APR.2017 16:27:33

5.1.1.5.1.2 Test RB=25RB



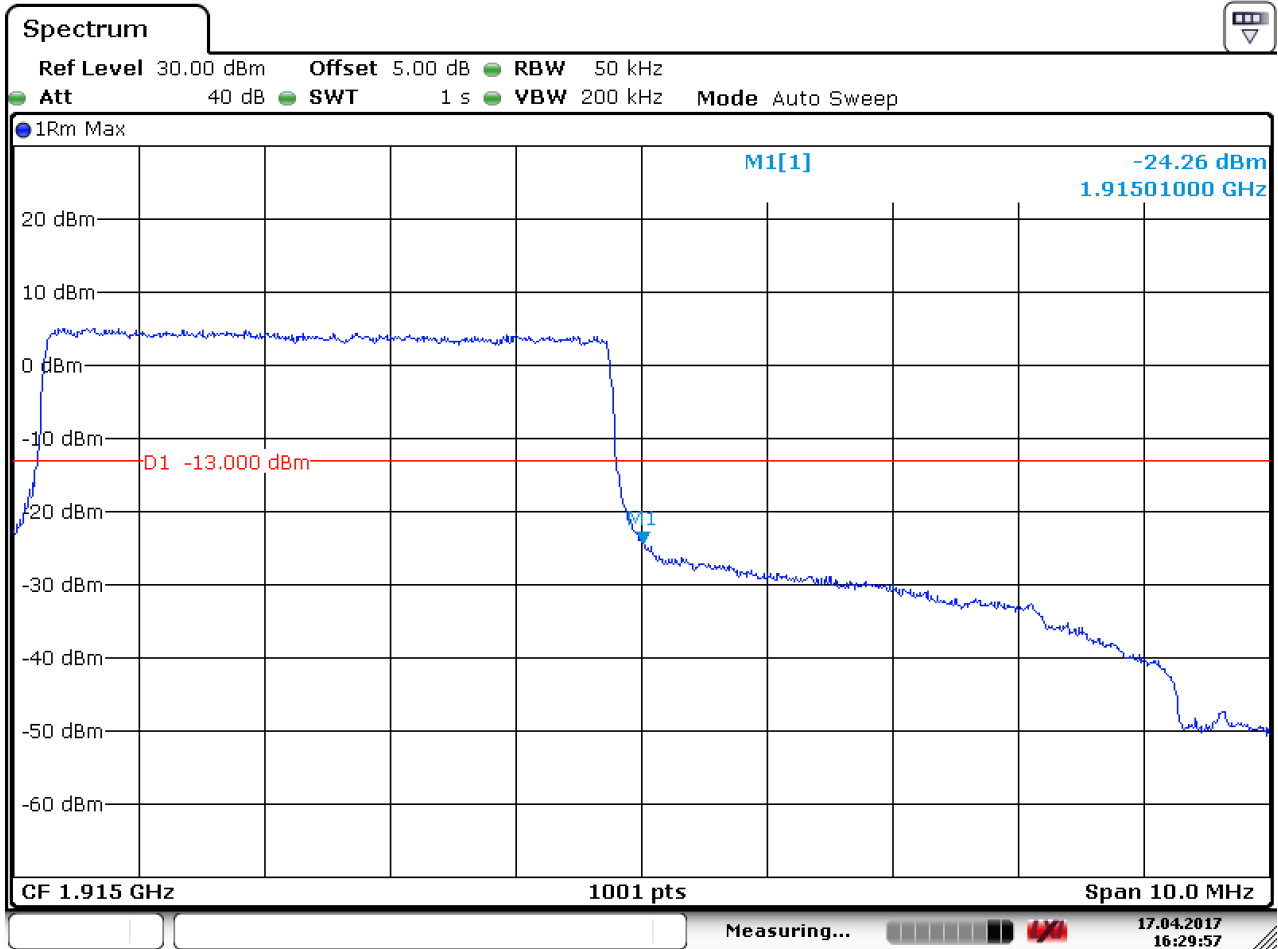
Date: 17.APR.2017 16:25:51





5.1.1.5.2 Test Channel = HCH

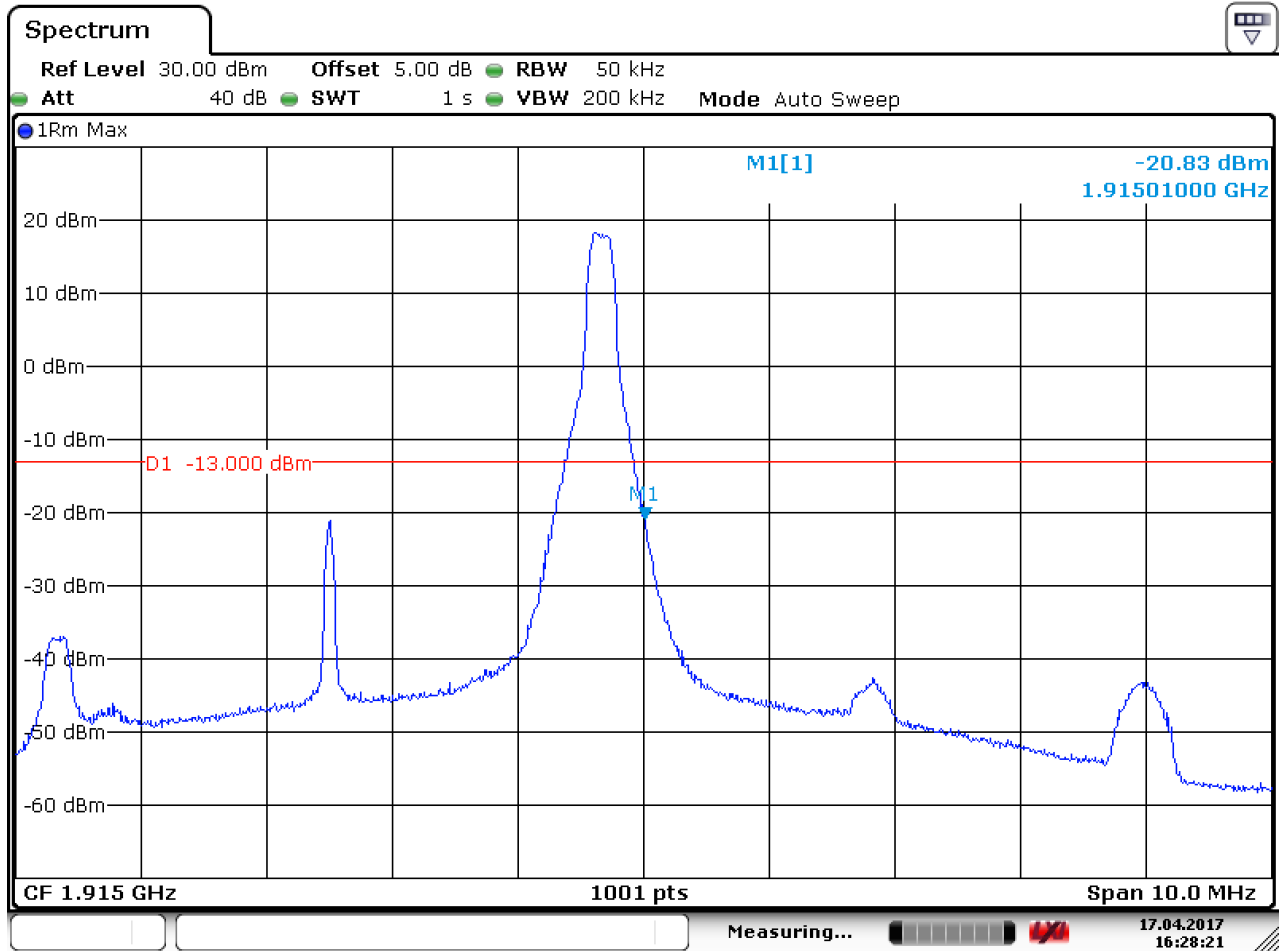
5.1.1.5.2.1 Test RB=1RB



Date: 17.APR.2017 16:29:57



5.1.1.5.2.2 Test RB=25RB



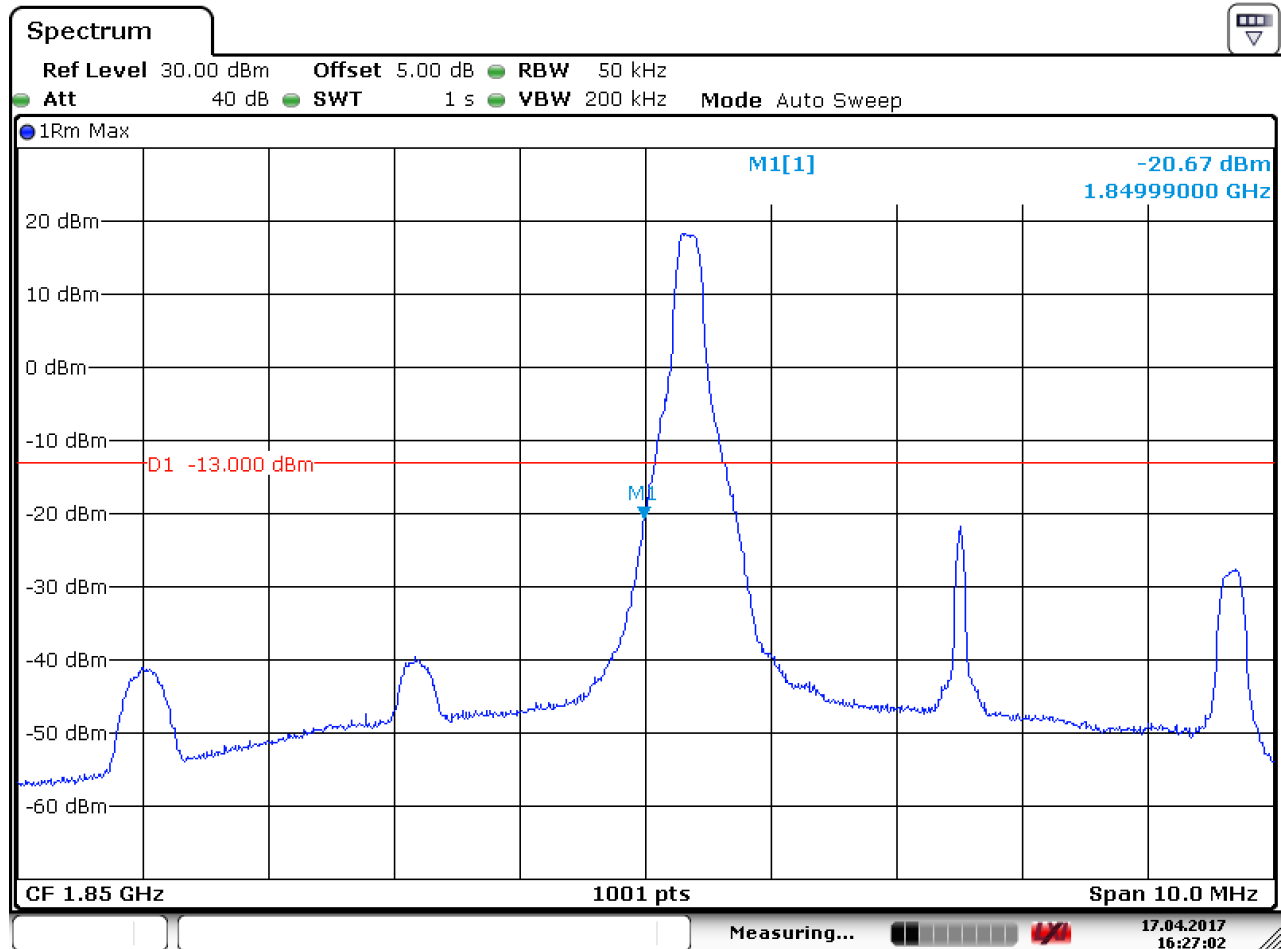
Date: 17.APR.2017 16:28:21



5.1.1.6 Test Mode = LTE/TM2 5MHz

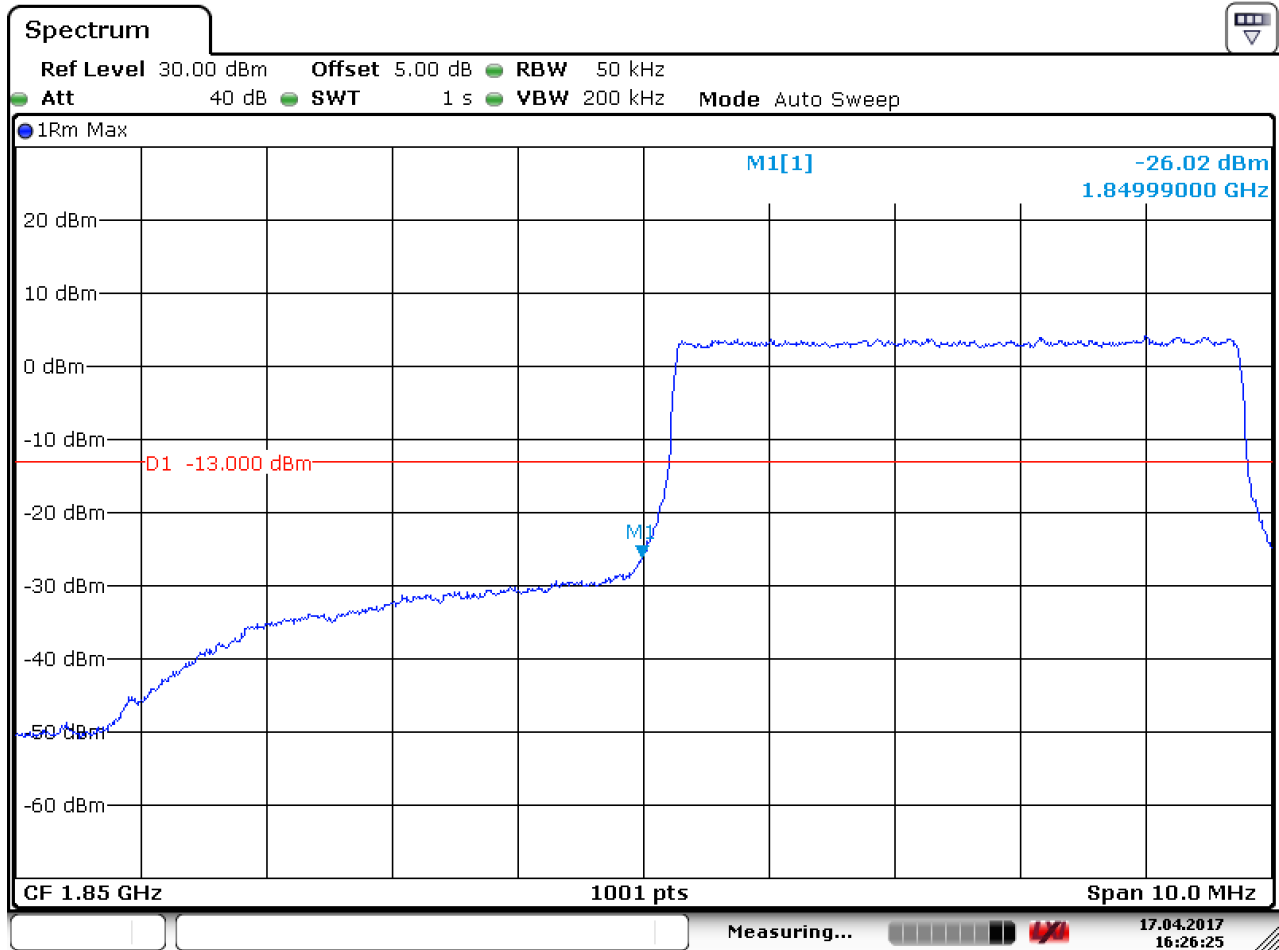
5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 17.APR.2017 16:27:03

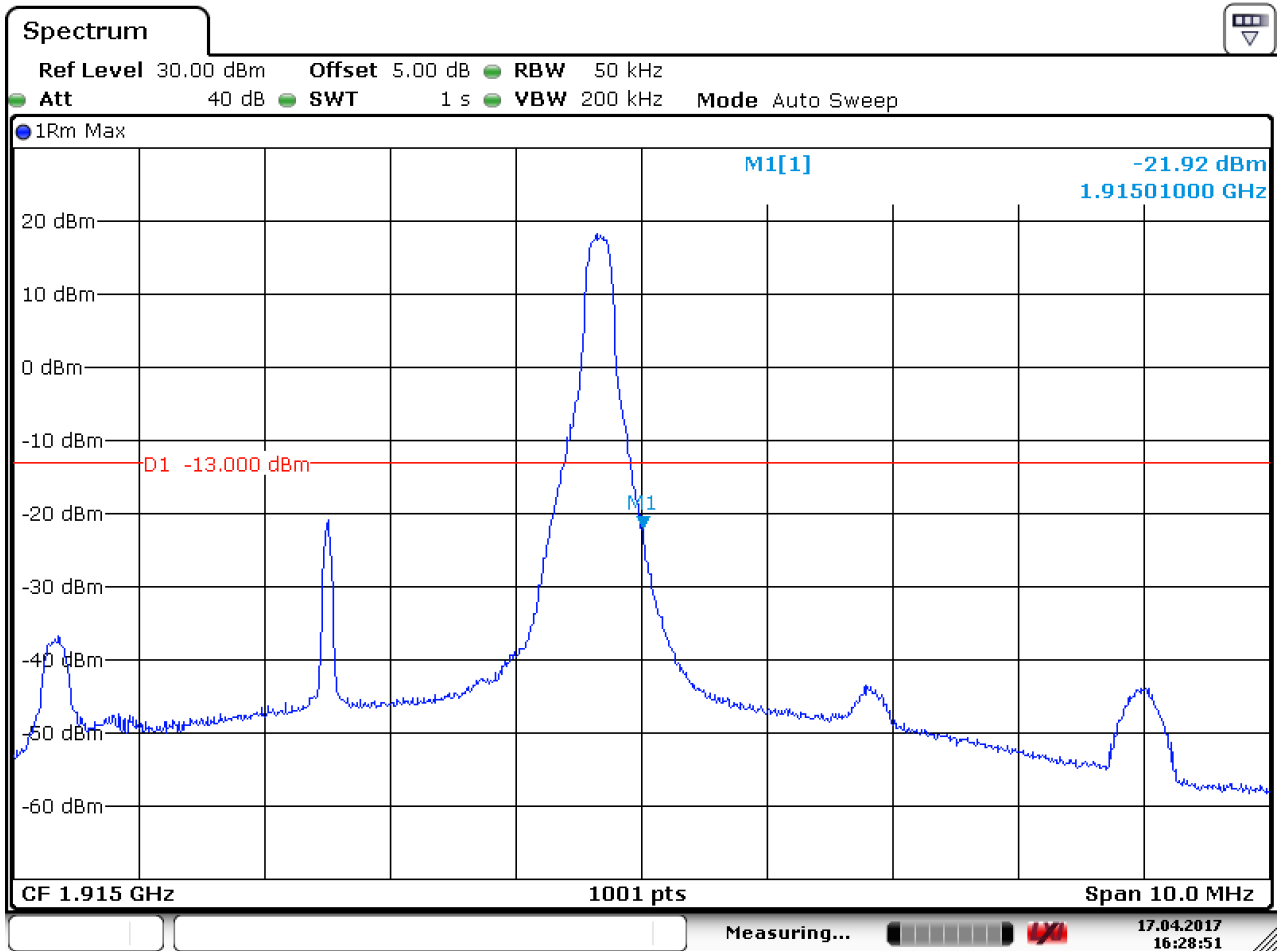
5.1.1.6.1.2 Test RB=25RB



Date: 17.APR.2017 16:26:25

5.1.1.6.2 Test Channel = HCH

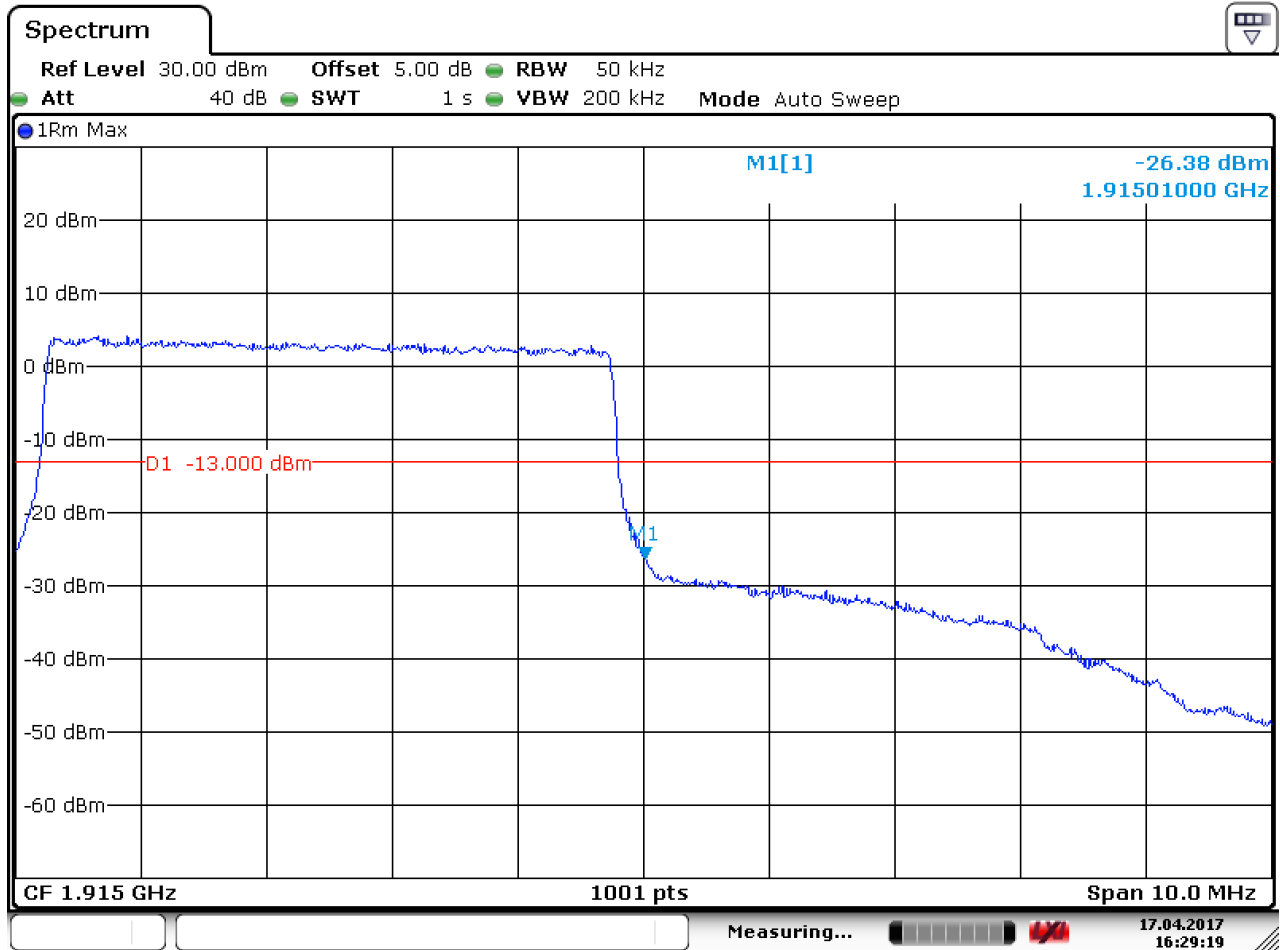
5.1.1.6.2.1 Test RB=1RB



Date: 17.APR.2017 16:28:52



5.1.1.6.2.2 Test RB=25RB



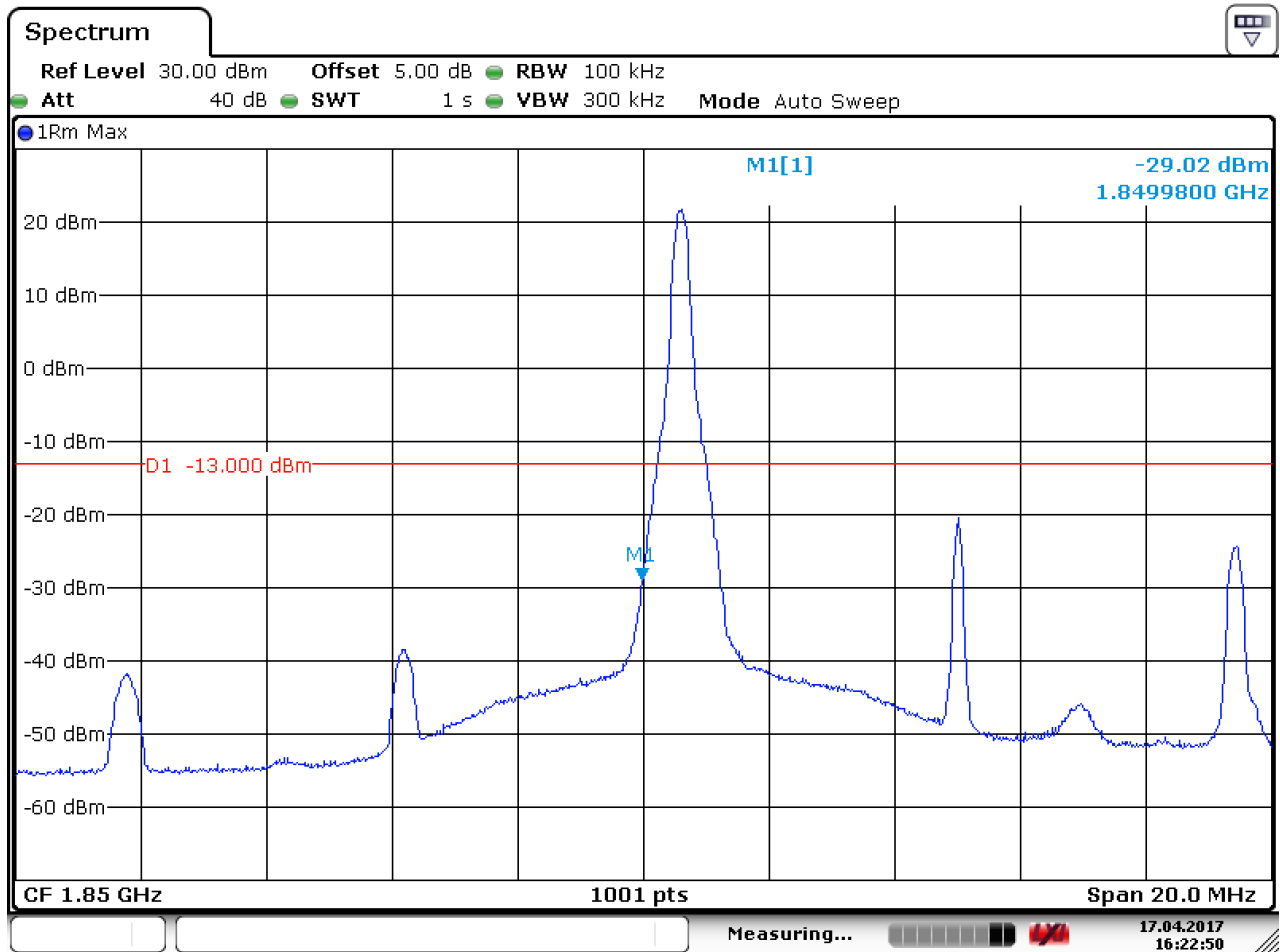
Date: 17.APR.2017 16:29:20



5.1.1.7 Test Mode = LTE/TM1 10MHz

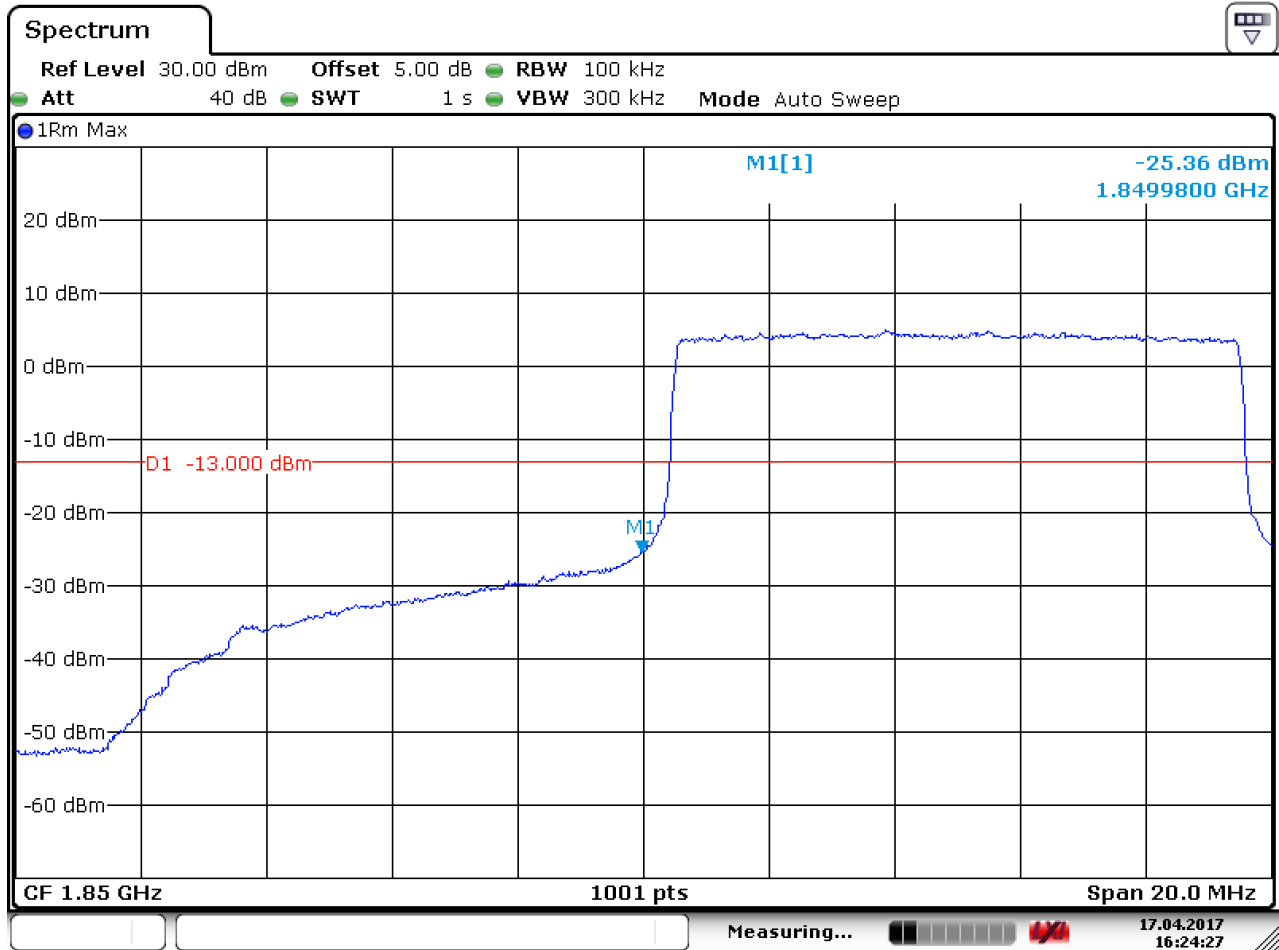
5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 17.APR.2017 16:22:50

5.1.1.7.1.2 Test RB=50RB



Date: 17.APR.2017 16:24:28