Appendix B

E-UTRA Band 2

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

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

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

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
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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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
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

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
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

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
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

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

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
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

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

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

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,

$$EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi]$$

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 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

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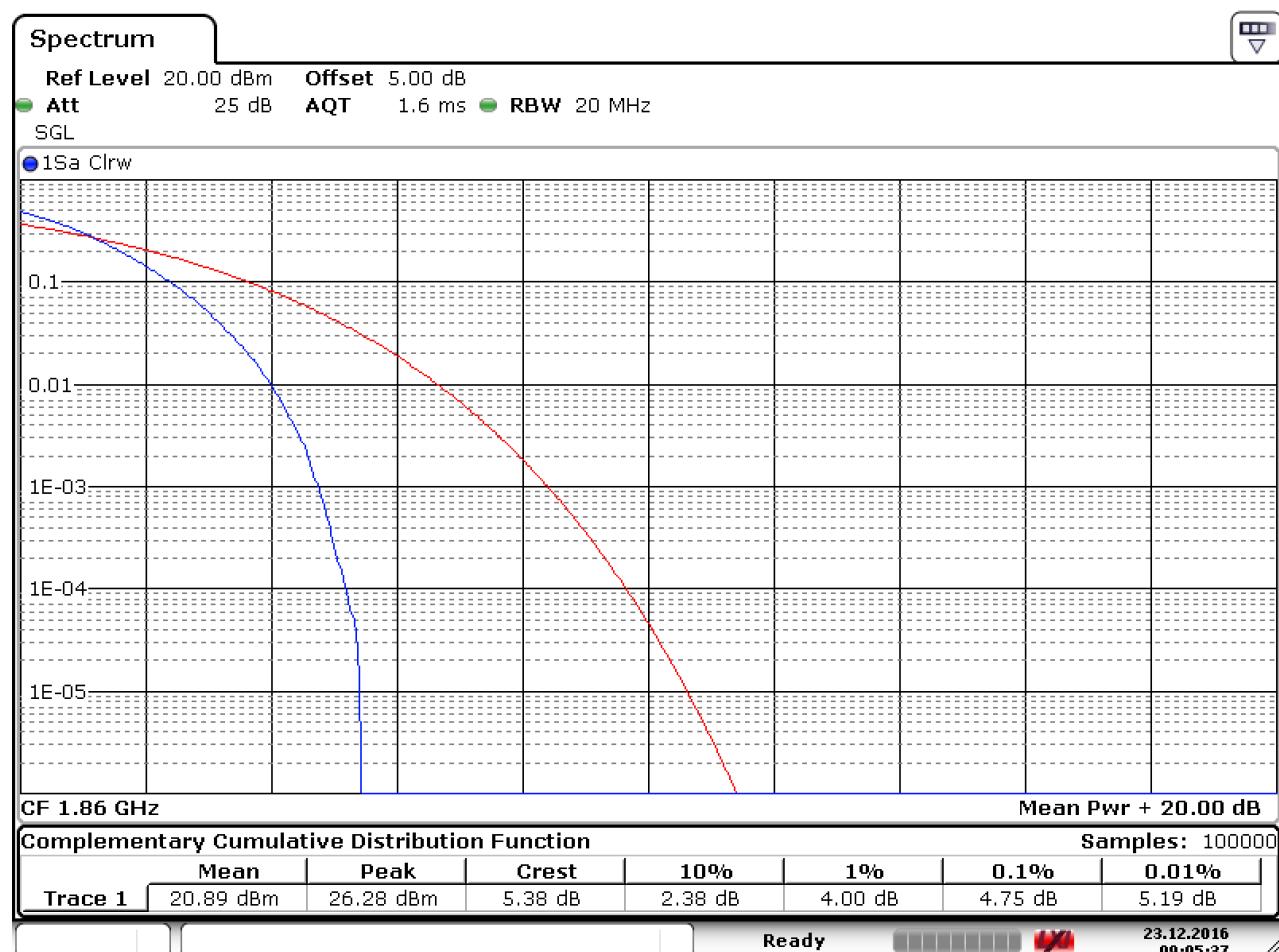
Part II - Test Plots

2.1 For LTE
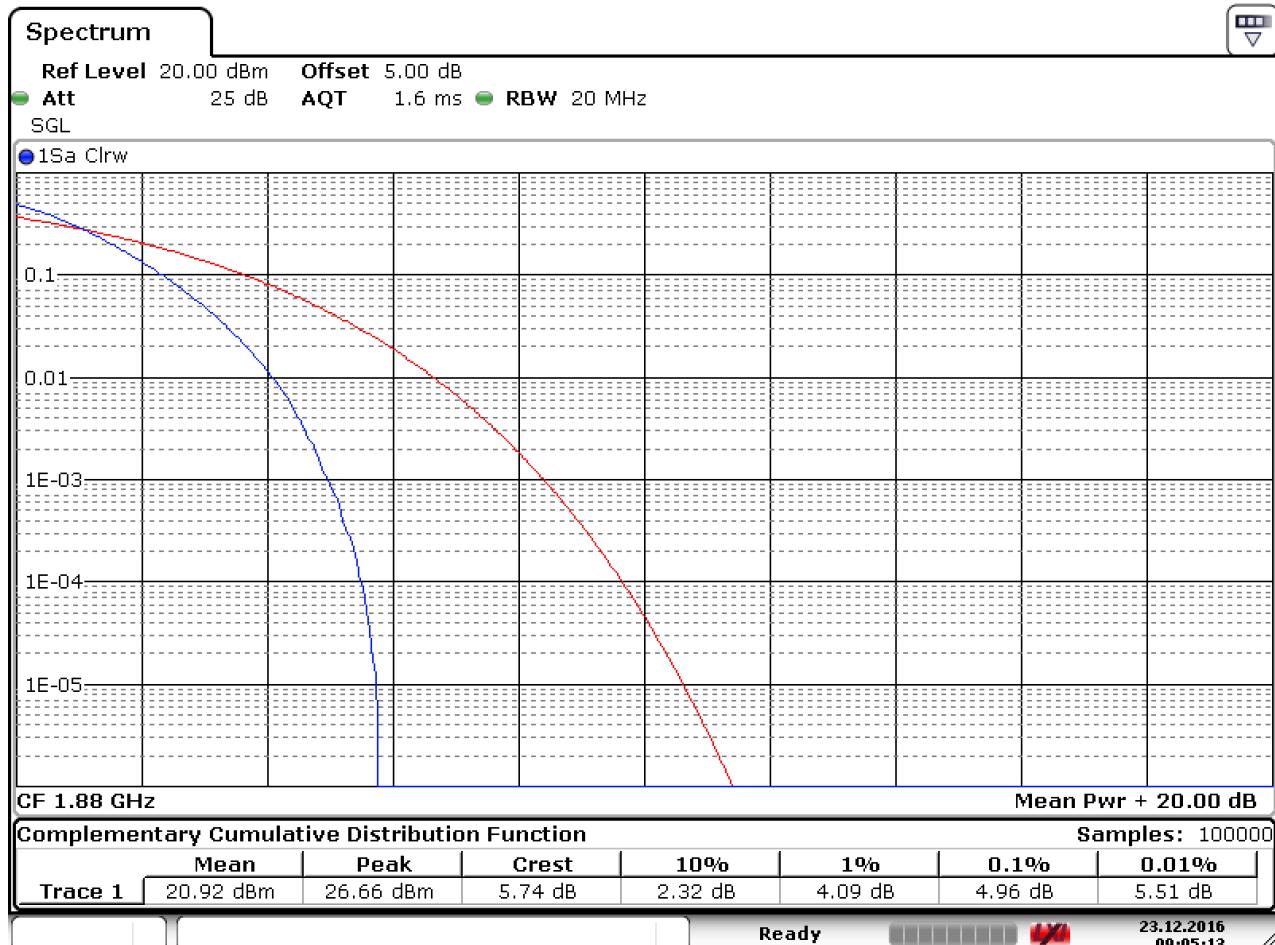
2.1.1 Test Band = LTE band2

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz
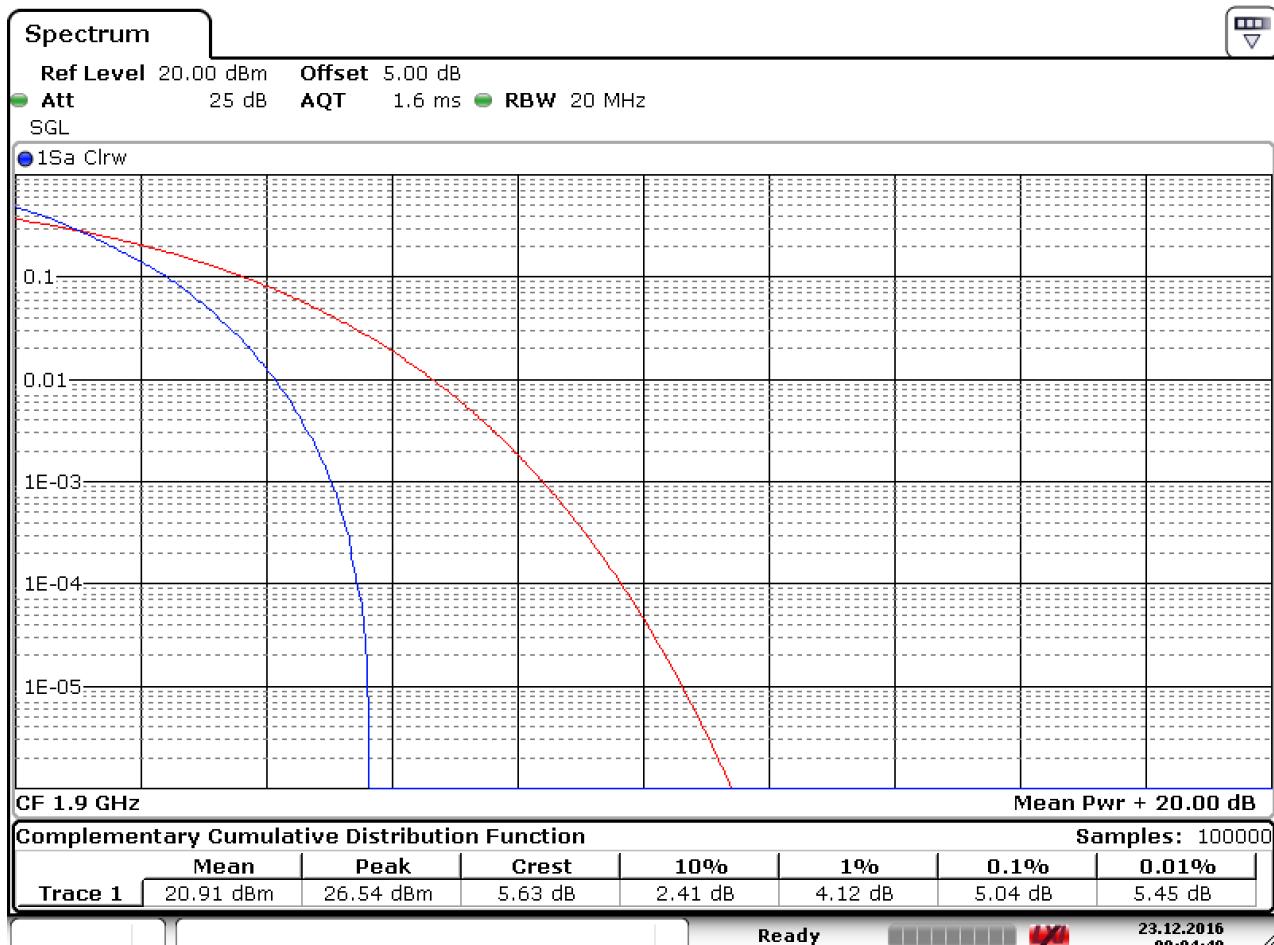
2.1.1.1.1 Test Channel = LCH

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.89 dBm	26.28 dBm	5.38 dB	2.38 dB	4.00 dB	4.75 dB	5.19 dB

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

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2.1.1.1.2 Test Channel = MCH
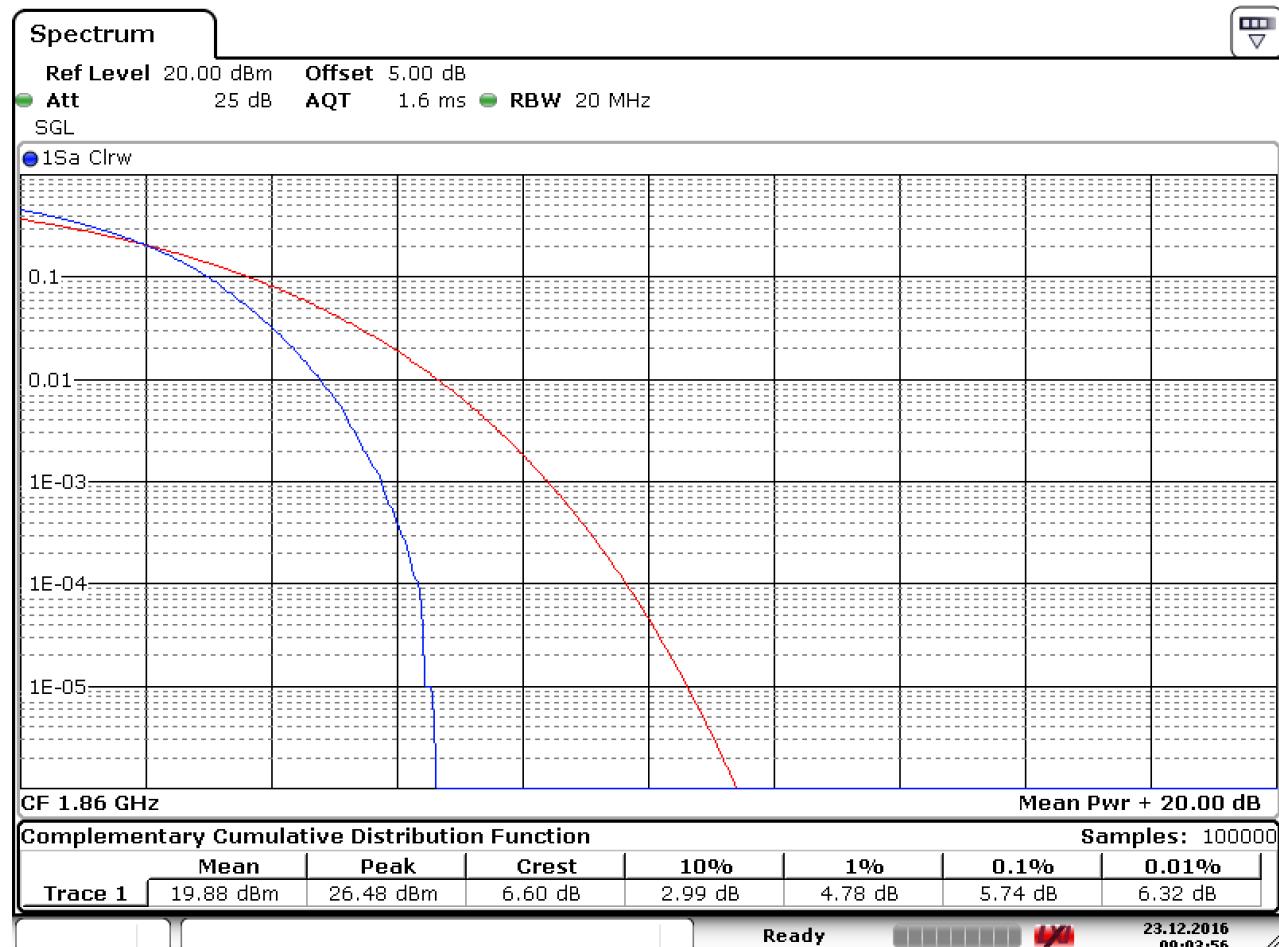
Date: 23.DEC.2016 09:05:14

2.1.1.1.3   Test Channel = HCH

Spectrum							
Ref Level 20.00 dBm **Offset** 5.00 dB							
● **Att** 25 dB **AQT** 1.6 ms ● **RBW** 20 MHz							
SGL							
● 1Sa Clrw							

CF 1.9 GHz   Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function						Samples: 100000	
	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	20.91 dBm	26.54 dBm	5.63 dB	2.41 dB	4.12 dB	5.04 dB	5.45 dB

Ready   23.12.2016
                                    09:04:40

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

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

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

2.1.1.2.1   Test Channel = LCH

Spectrum							
Ref Level 20.00 dBm Offset 5.00 dB							
Att 25 dB AQT 1.6 ms RBW 20 MHz							

CF 1.86 GHz

Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function   Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	19.88 dBm	26.48 dBm	6.60 dB	2.99 dB	4.78 dB	5.74 dB	6.32 dB

Ready   23.12.2016
09:03:56

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

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

2.1.1.2.2 Test Channel = MCH

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	19.91 dBm	26.95 dBm	7.04 dB	2.96 dB	4.84 dB	5.88 dB	6.61 dB

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

2.1.1.2.3 Test Channel = HCH

Date: 23.DEC.2016 09:04:22

3　Modulation Characteristics
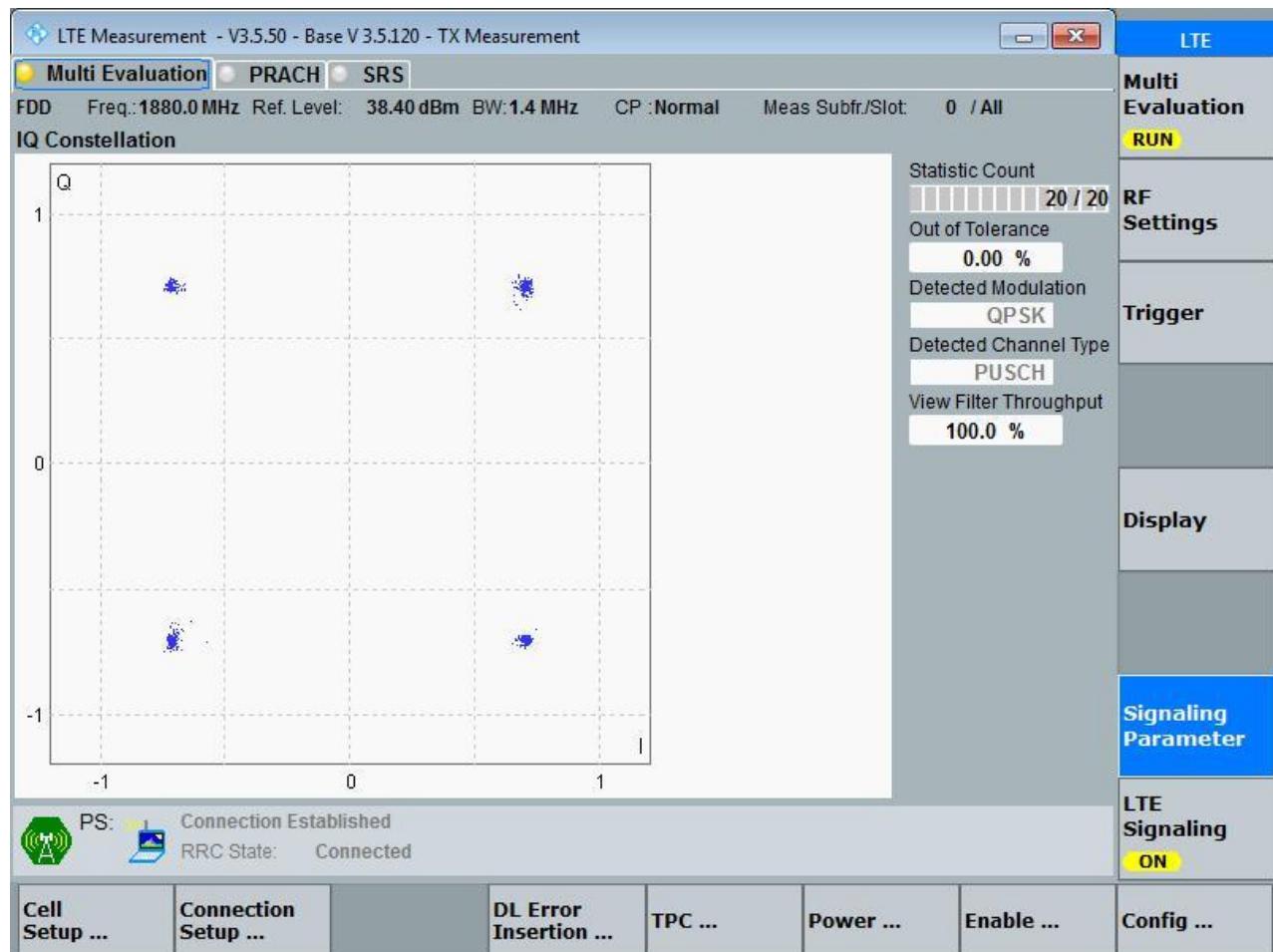
Part I - Test Plots

3.1　For LTE

3.1.1 Test Band = LTE band2
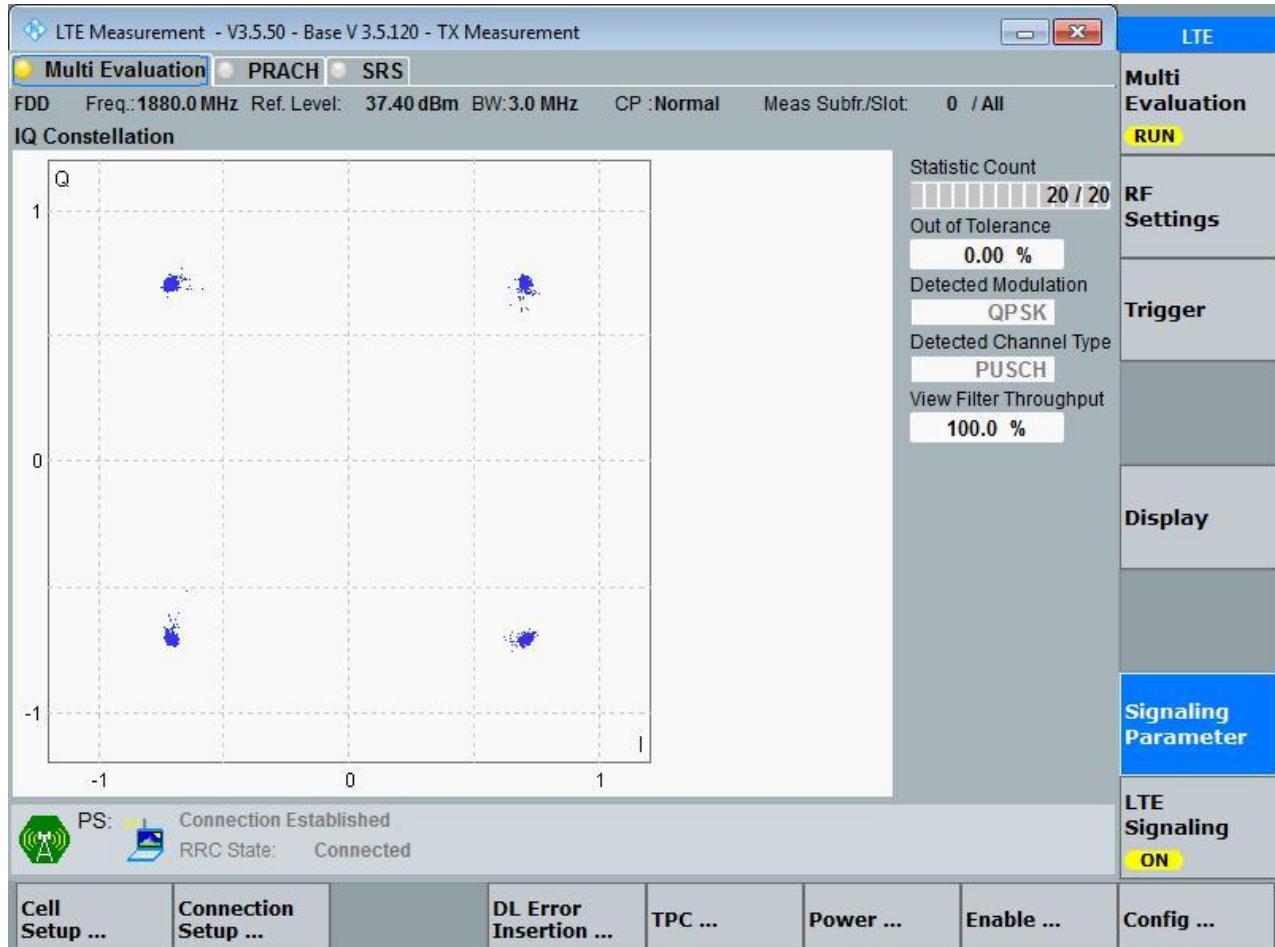
3.1.1.1　Test Mode = LTE /TM1 1.4MHz

3.1.1.1.1　Test Channel = MCH
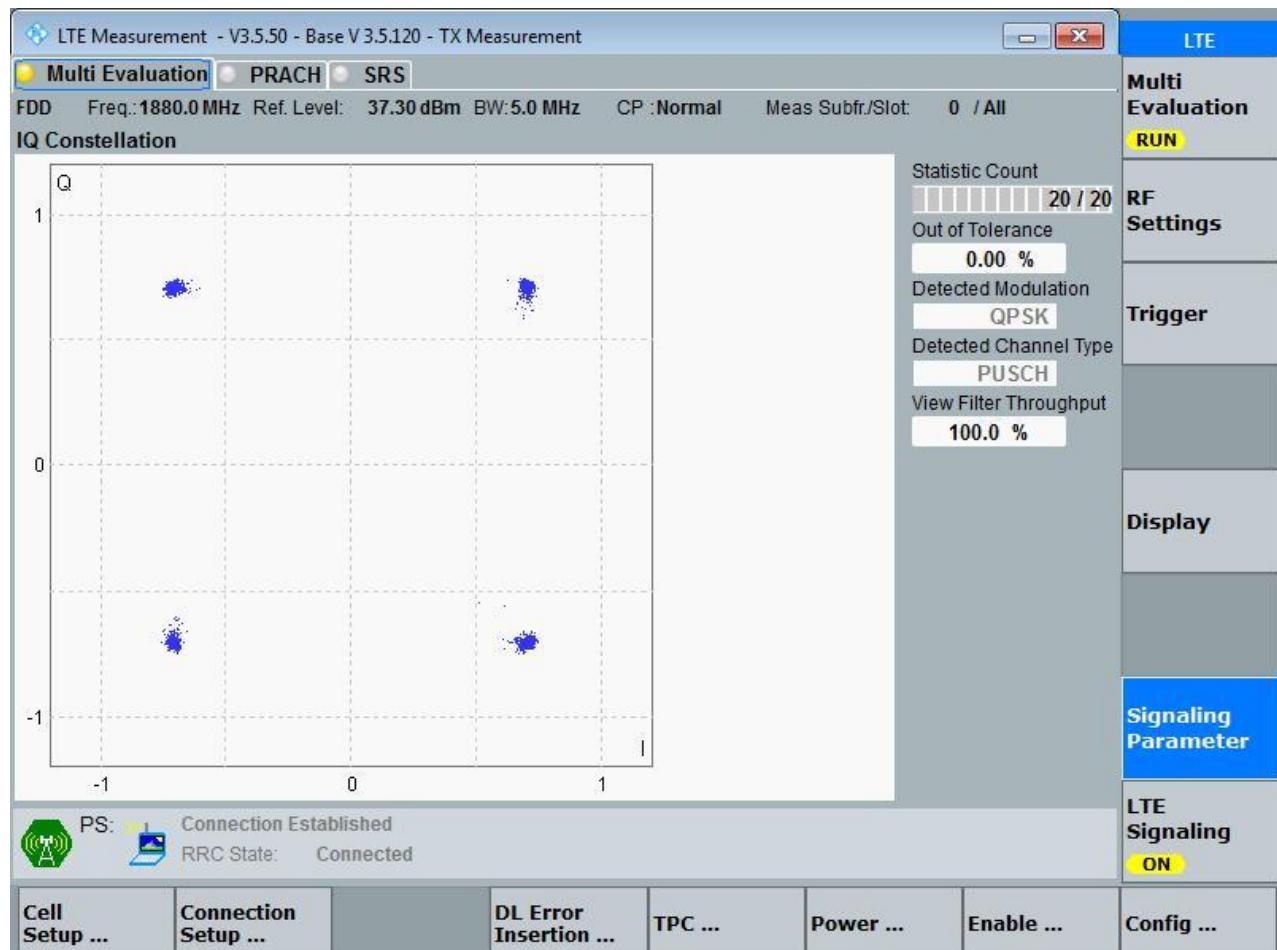
3.1.1.2 Test Mode = LTE /TM1 3MHz
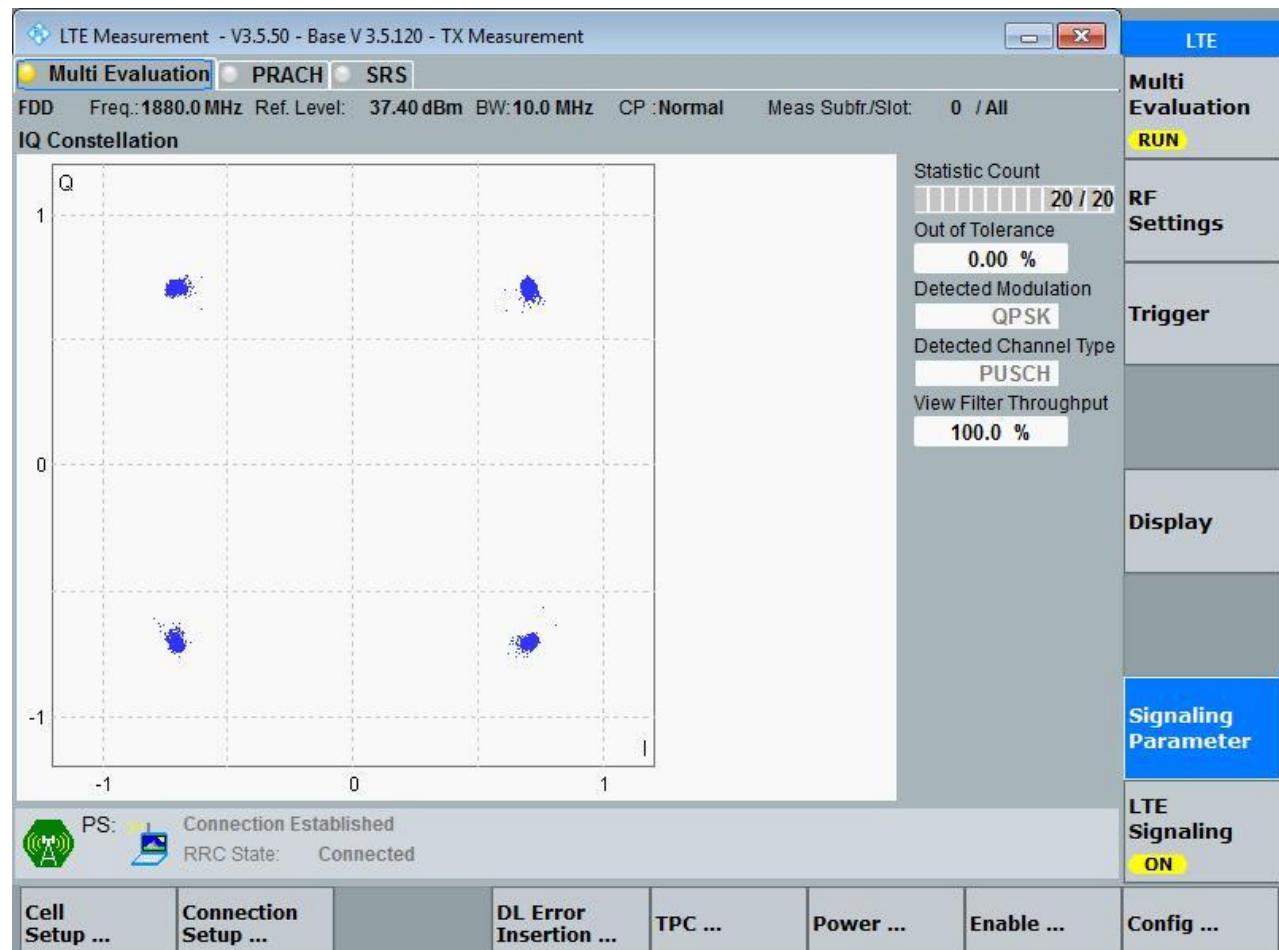
3.1.1.2.1 Test Channel = MCH

3.1.1.3 Test Mode = LTE /TM1 5MHz

3.1.1.3.1 Test Channel = MCH

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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
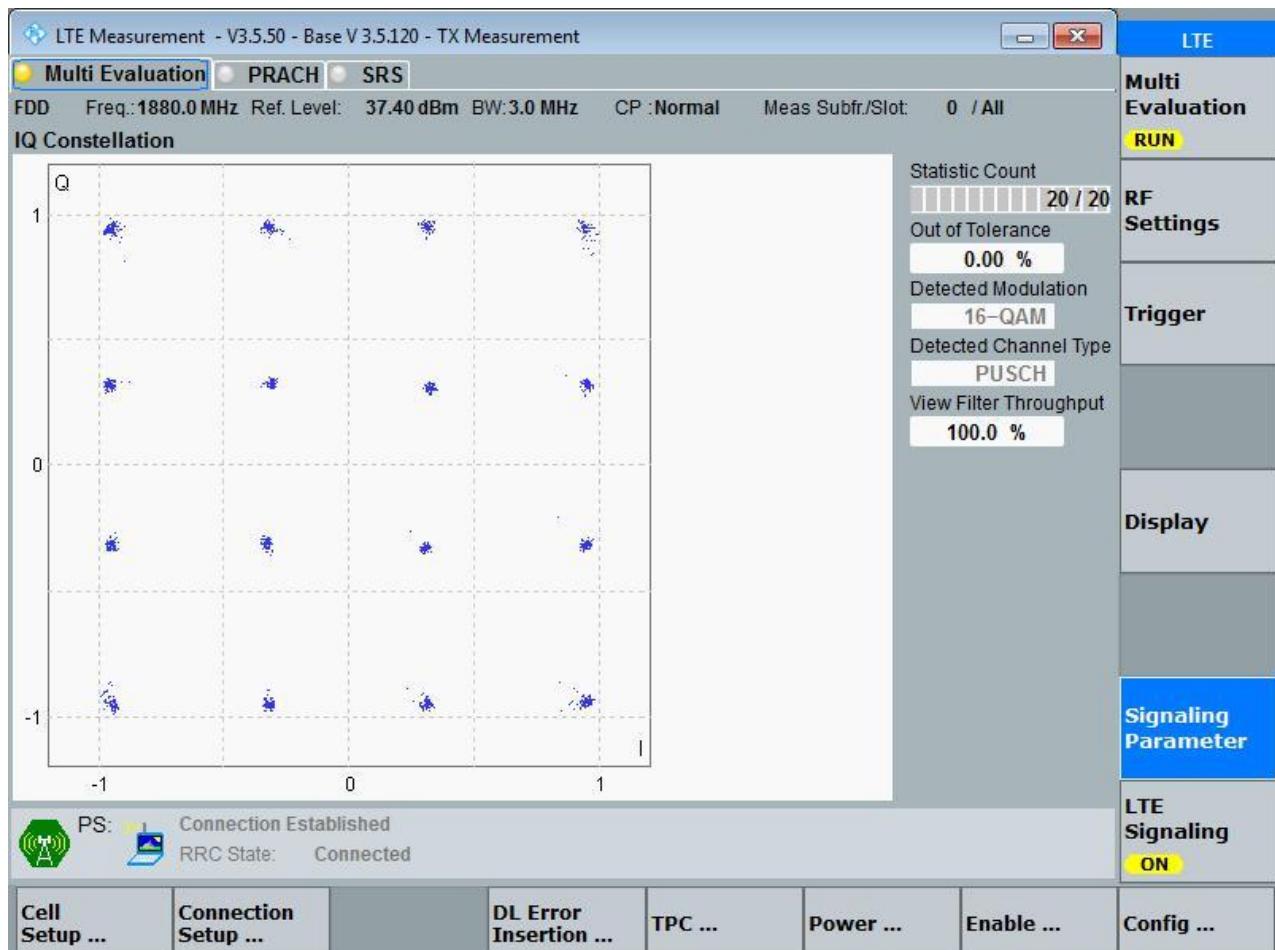
3.1.1.6   Test Mode = LTE /TM1 20MHz

3.1.1.6.1   Test Channel = MCH

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3.1.1.7 Test Mode = LTE /TM2 1.4MHz

3.1.1.7.1 Test Channel = MCH
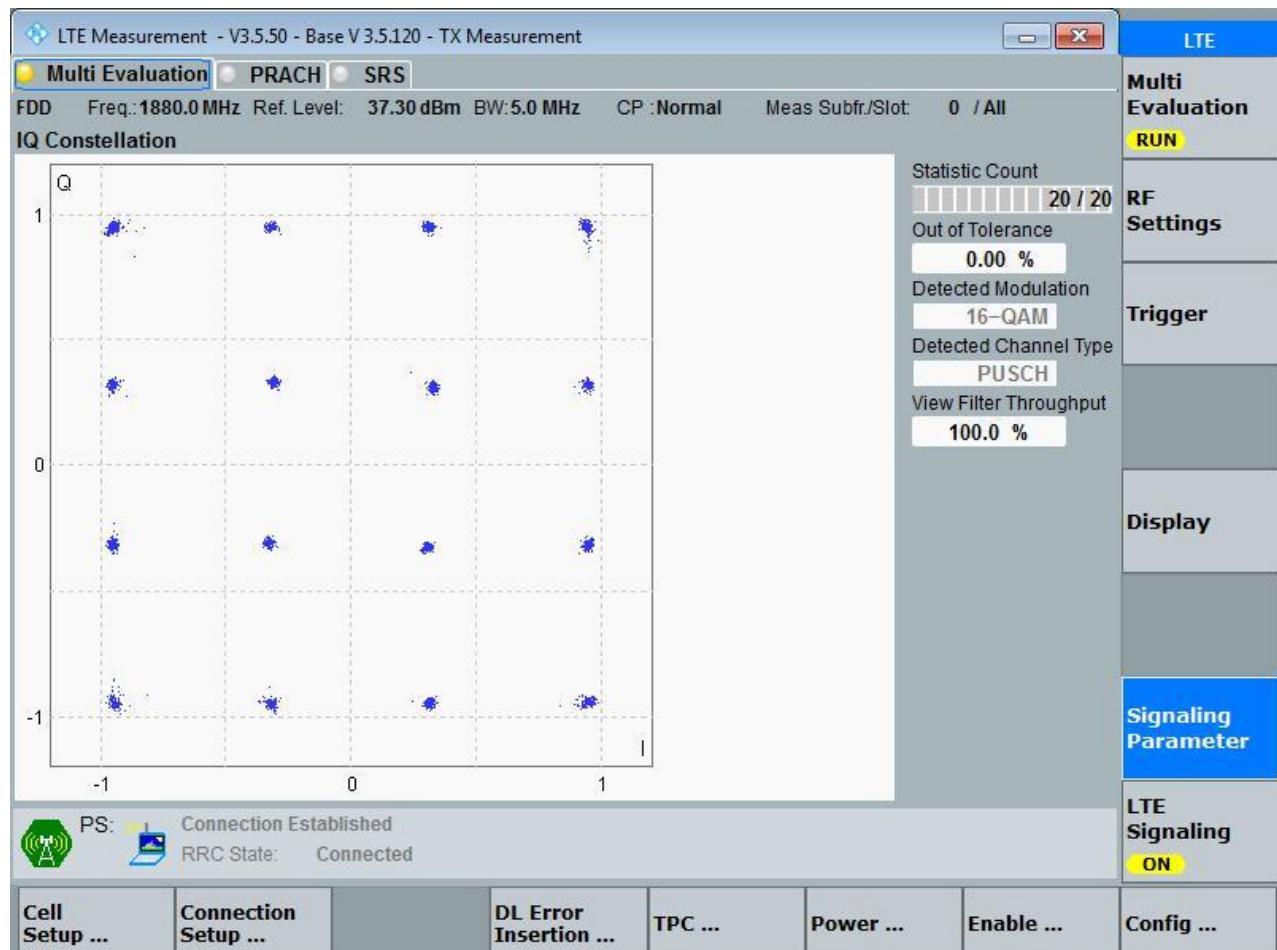
3.1.1.8　Test Mode = LTE /TM2 3MHz
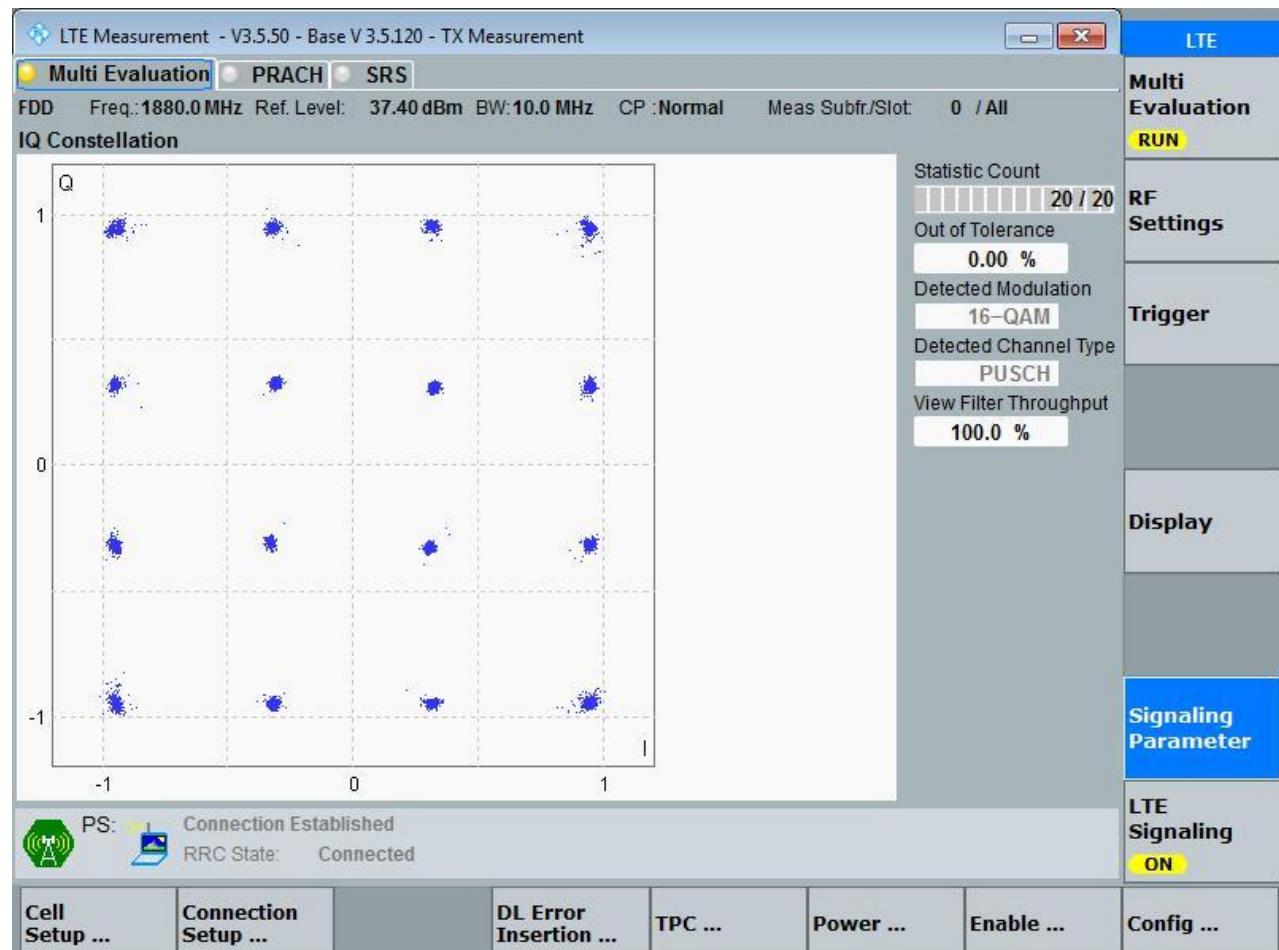
3.1.1.8.1　Test Channel = MCH

3.1.1.9 Test Mode = LTE /TM2 5MHz
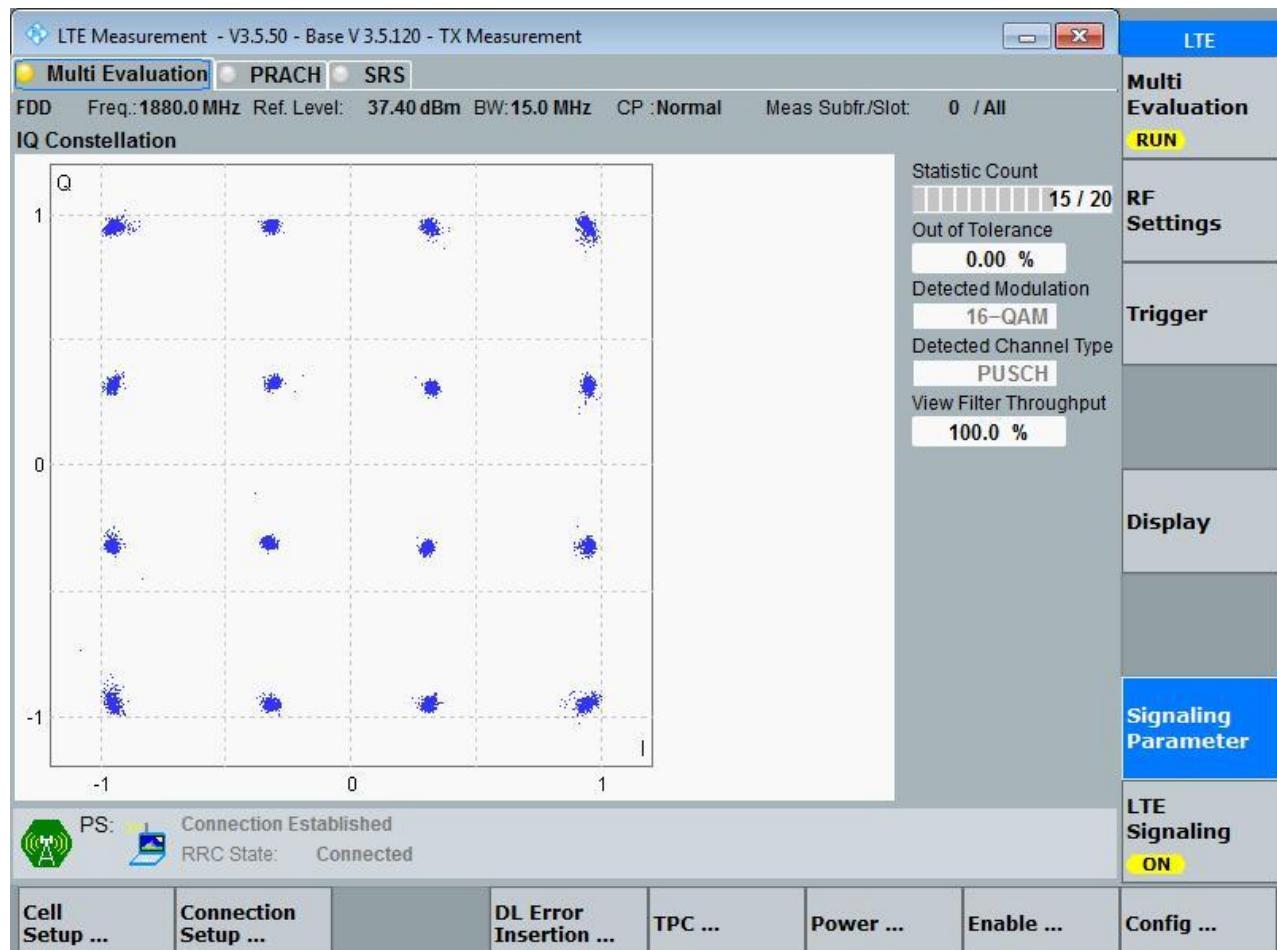
3.1.1.9.1 Test Channel = MCH

3.1.1.10 Test Mode = LTE /TM2 10MHz

3.1.1.10.1 Test Channel = MCH
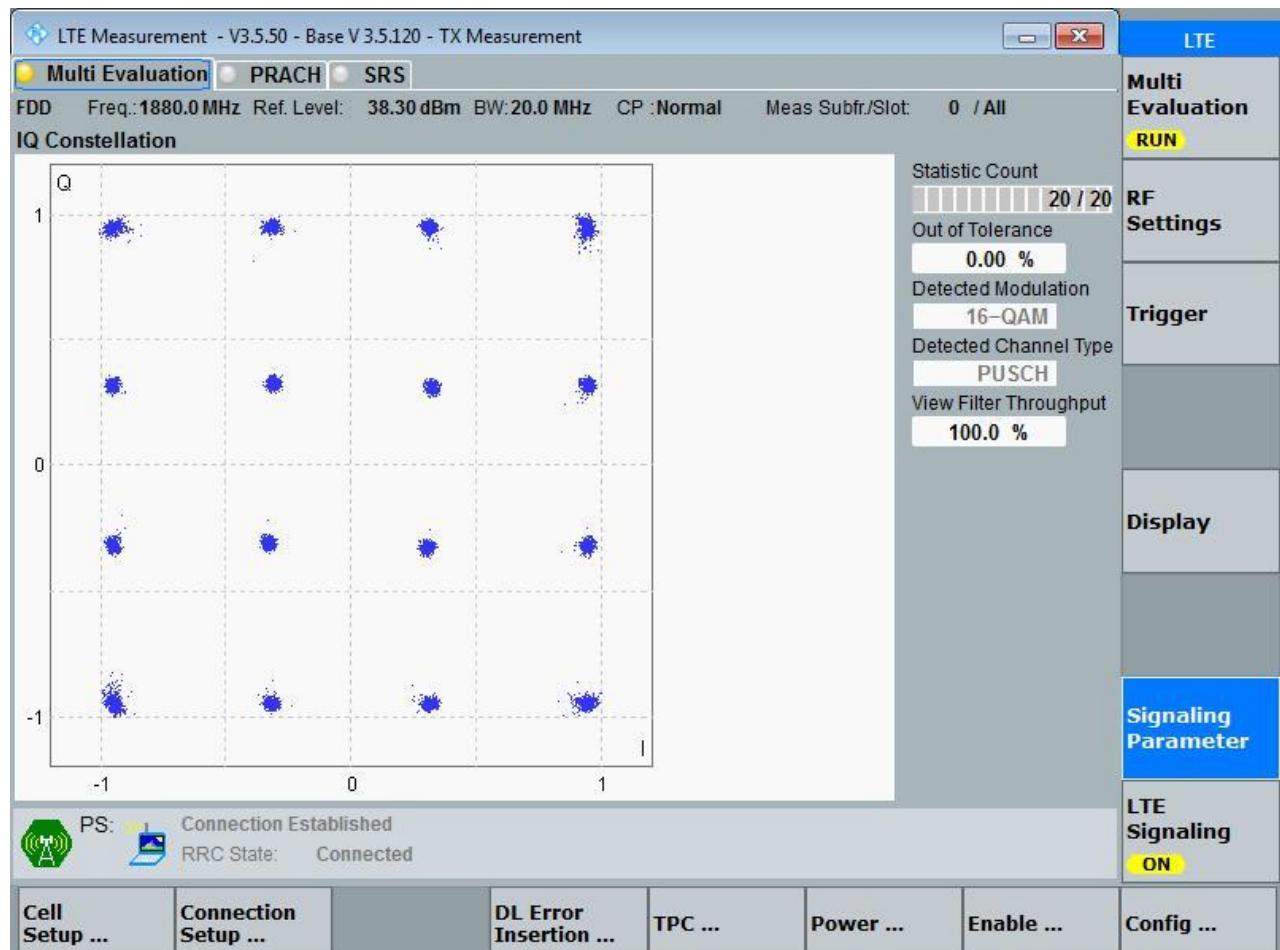
3.1.1.11 Test Mode = LTE /TM2 15MHz

3.1.1.11.1 Test Channel = MCH

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3.1.1.12 Test Mode = LTE /TM2 20MHz

3.1.1.12.1 Test Channel = MCH

4   Bandwidth

Part I - Test Results
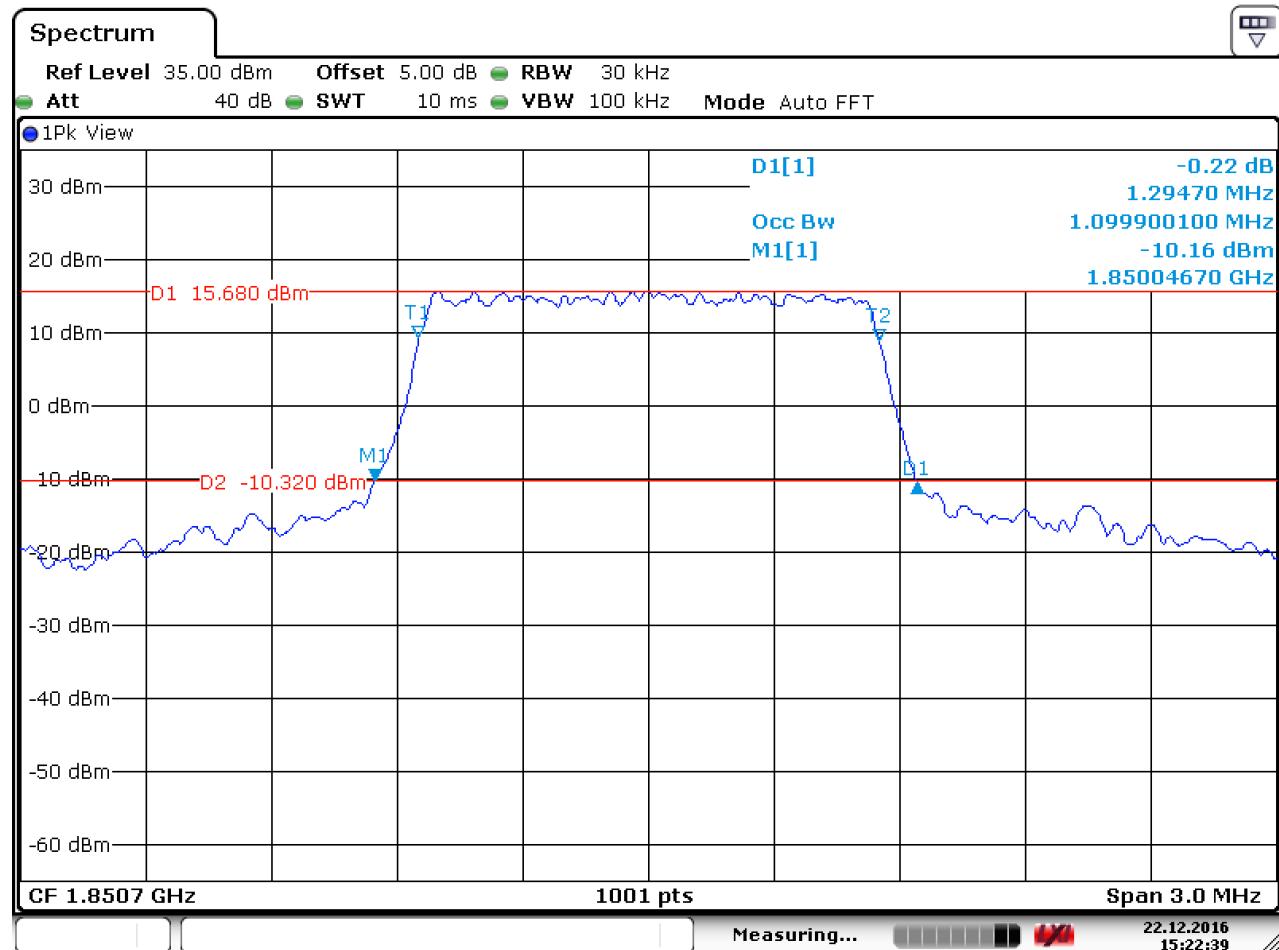
Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 2	TM1/1.4MHz	LCH	1.10	1.29	PASS
		MCH	1.09	1.27	PASS
		HCH	1.10	1.27	PASS
	TM2/1.4MHz	LCH	1.09	1.27	PASS
		MCH	1.10	1.28	PASS
		HCH	1.10	1.28	PASS
	TM1/ 3MHz	LCH	2.69	2.91	PASS
		MCH	2.69	2.91	PASS
		HCH	2.69	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
	TM2/ 20MHz	LCH	17.94	19.58	PASS
		MCH	17.94	19.50	PASS
		HCH	18.02	19.70	PASS

4.1 For LTE
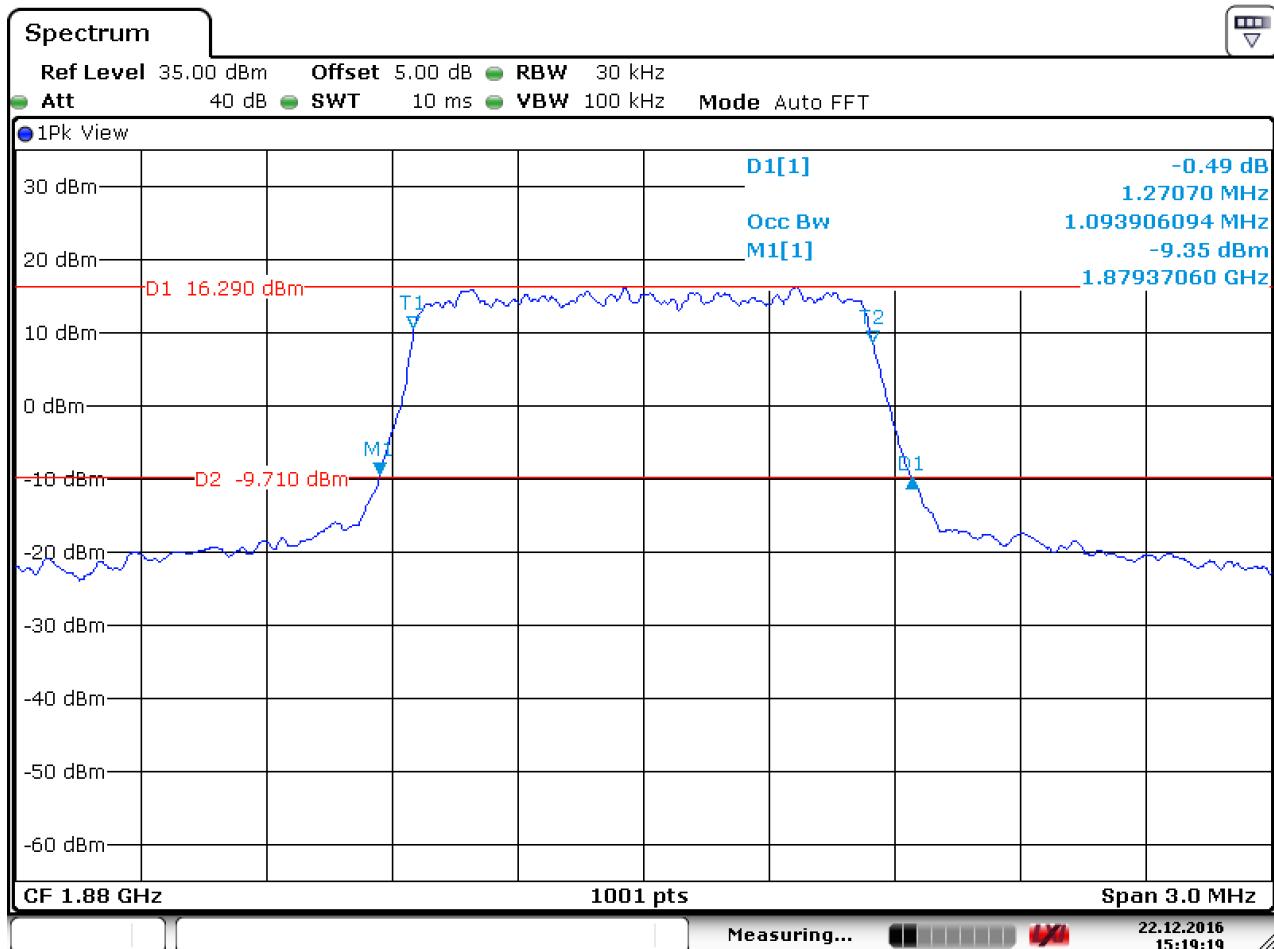
4.1.1 Test Band = LTE band2

4.1.1.1 Test Mode = LTE/TM1 1.4MHz
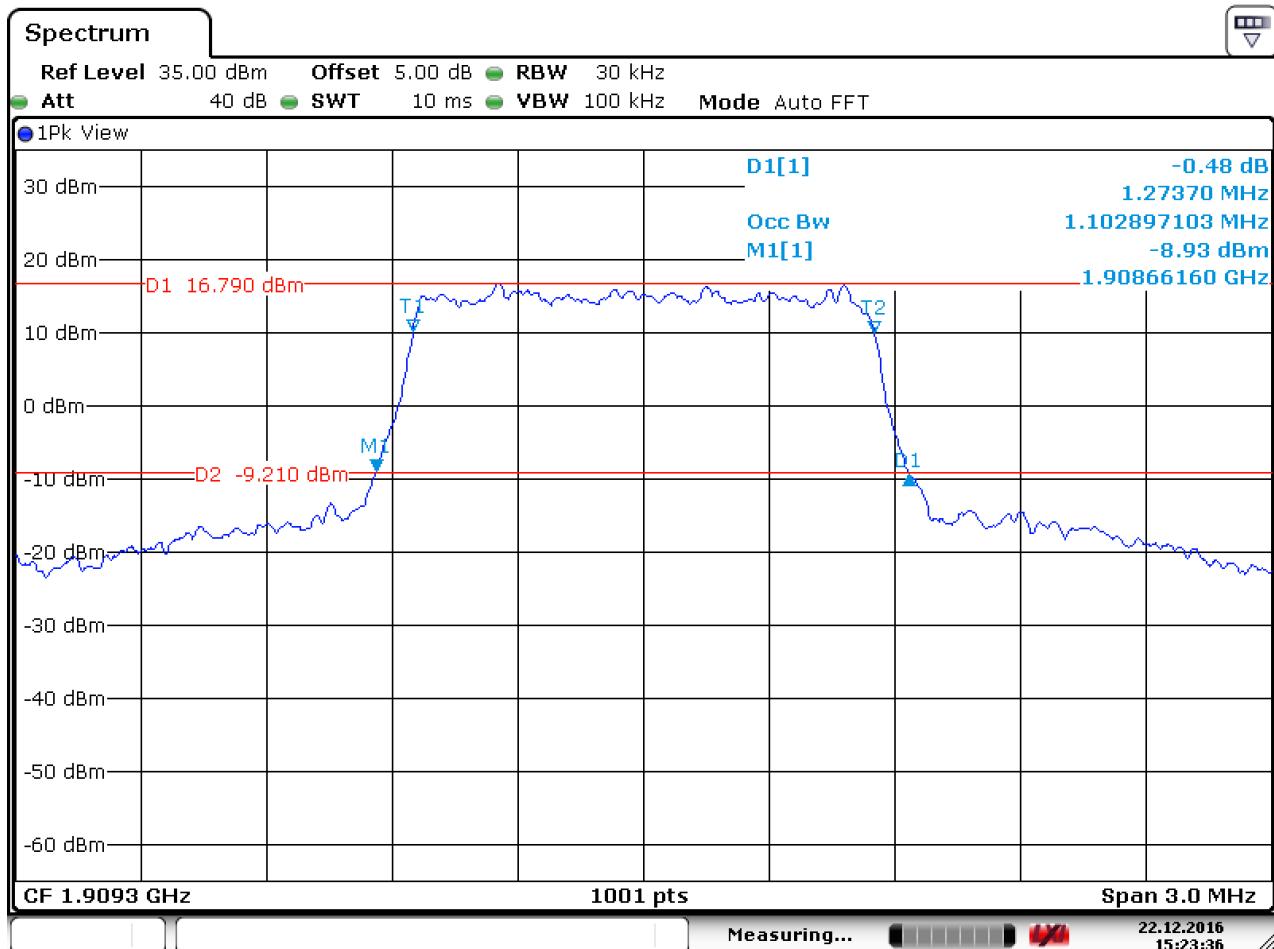
4.1.1.1.1 Test Channel = LCH

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

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4.1.1.1.2 Test Channel = MCH

Date: 22.DEC.2016 15:19:20

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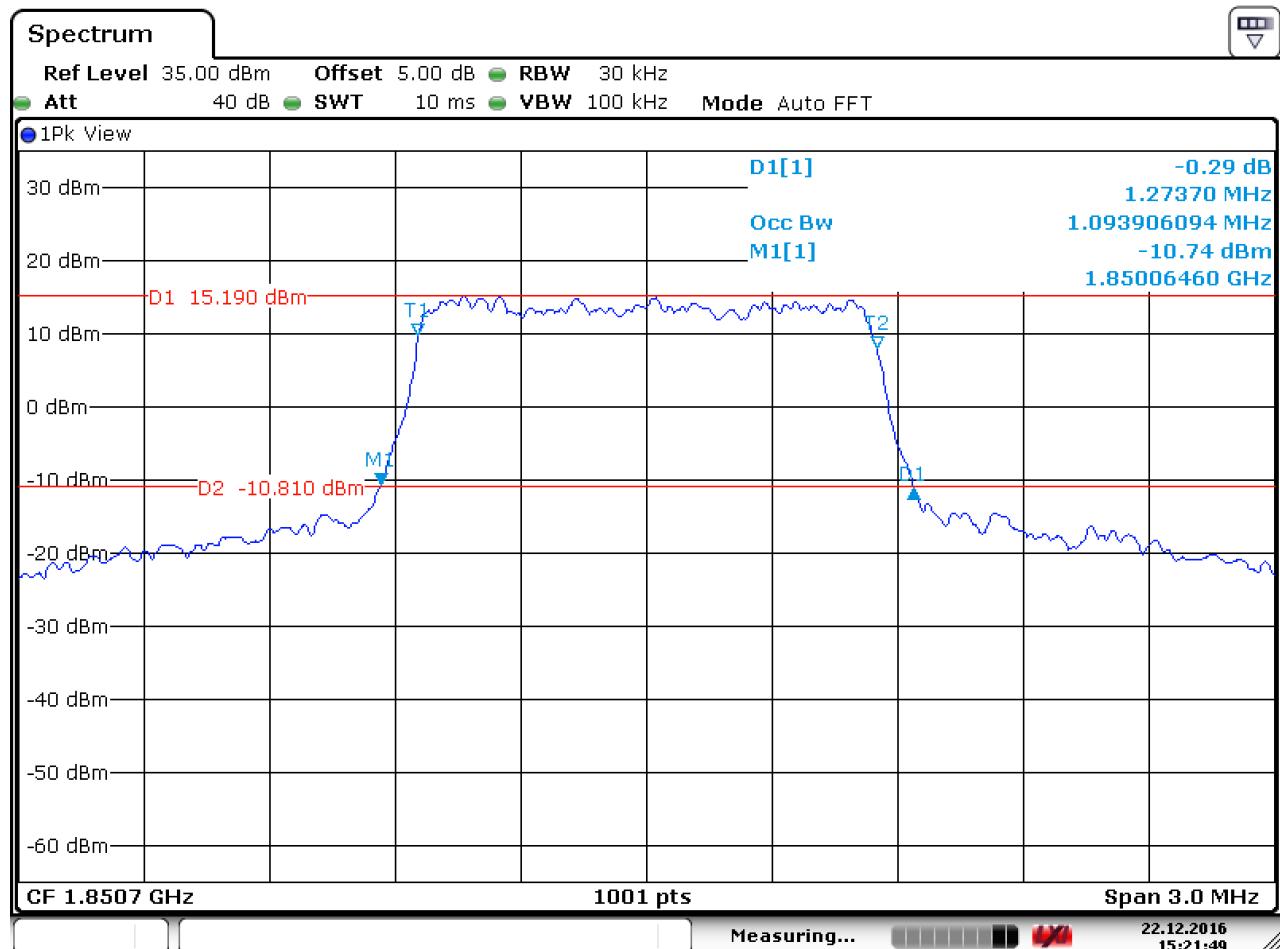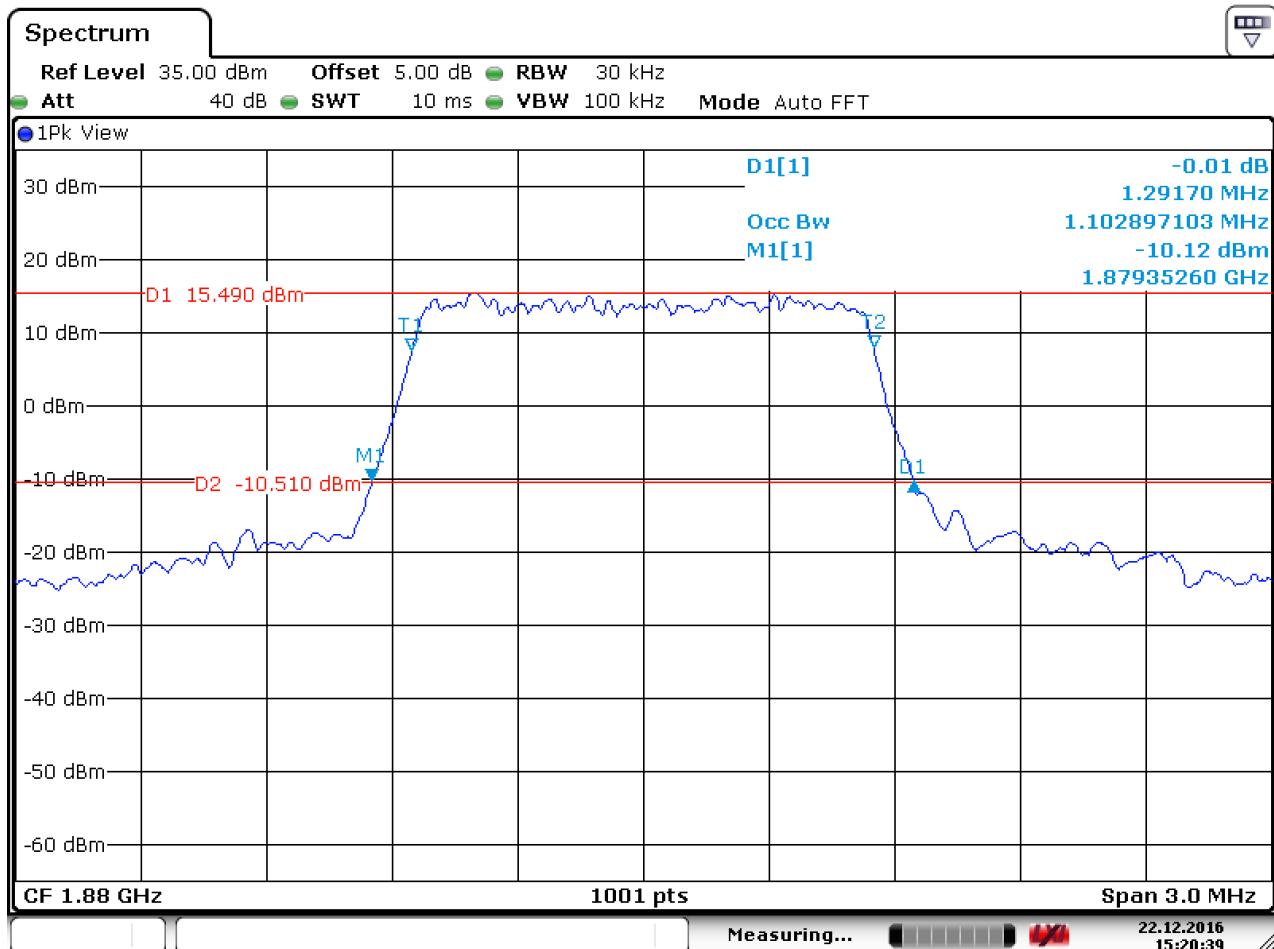
4.1.1.1.3   Test Channel = HCH
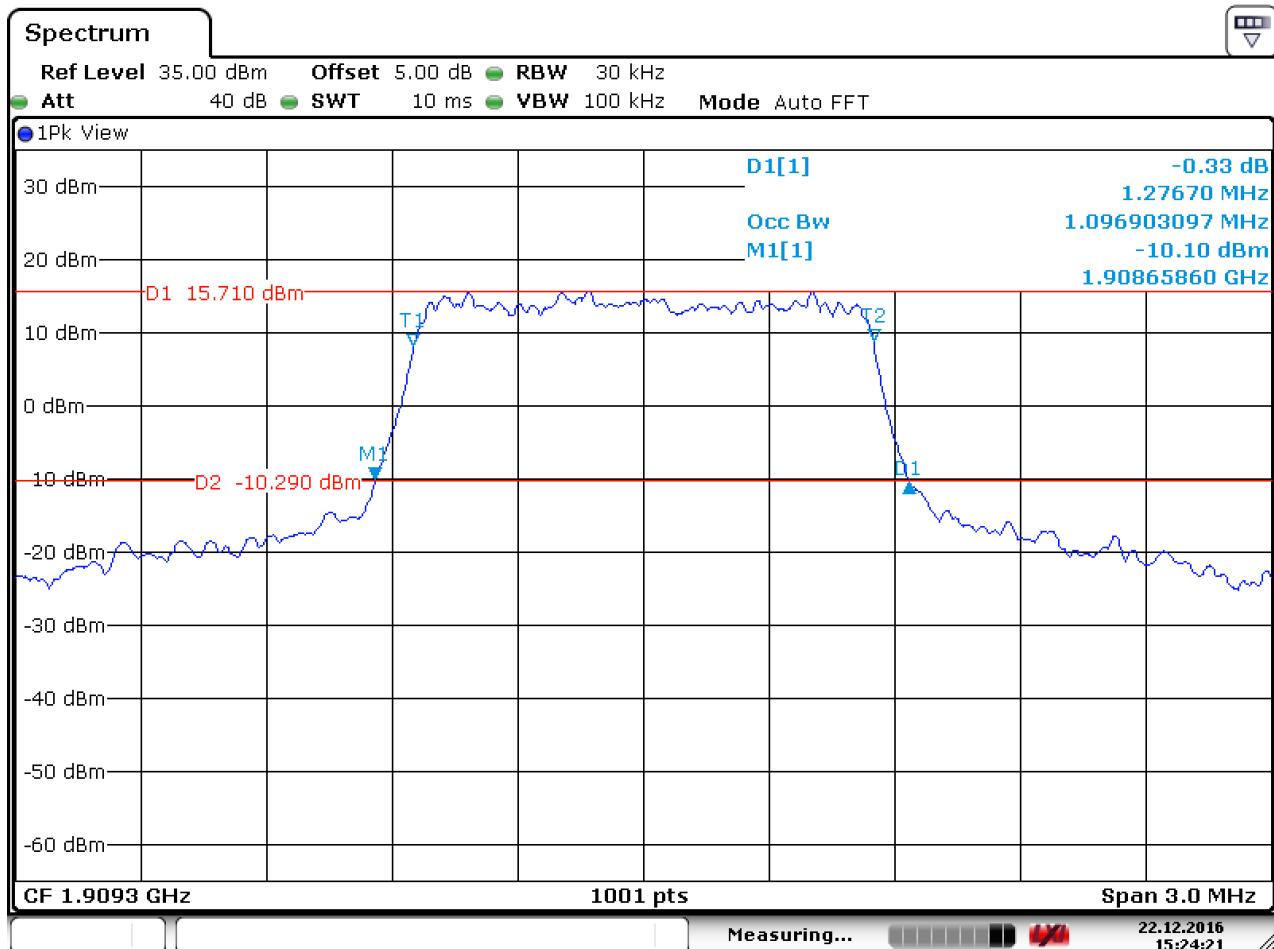
Date: 22.DEC.2016 15:23:36

4.1.1.2   Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1   Test Channel = LCH
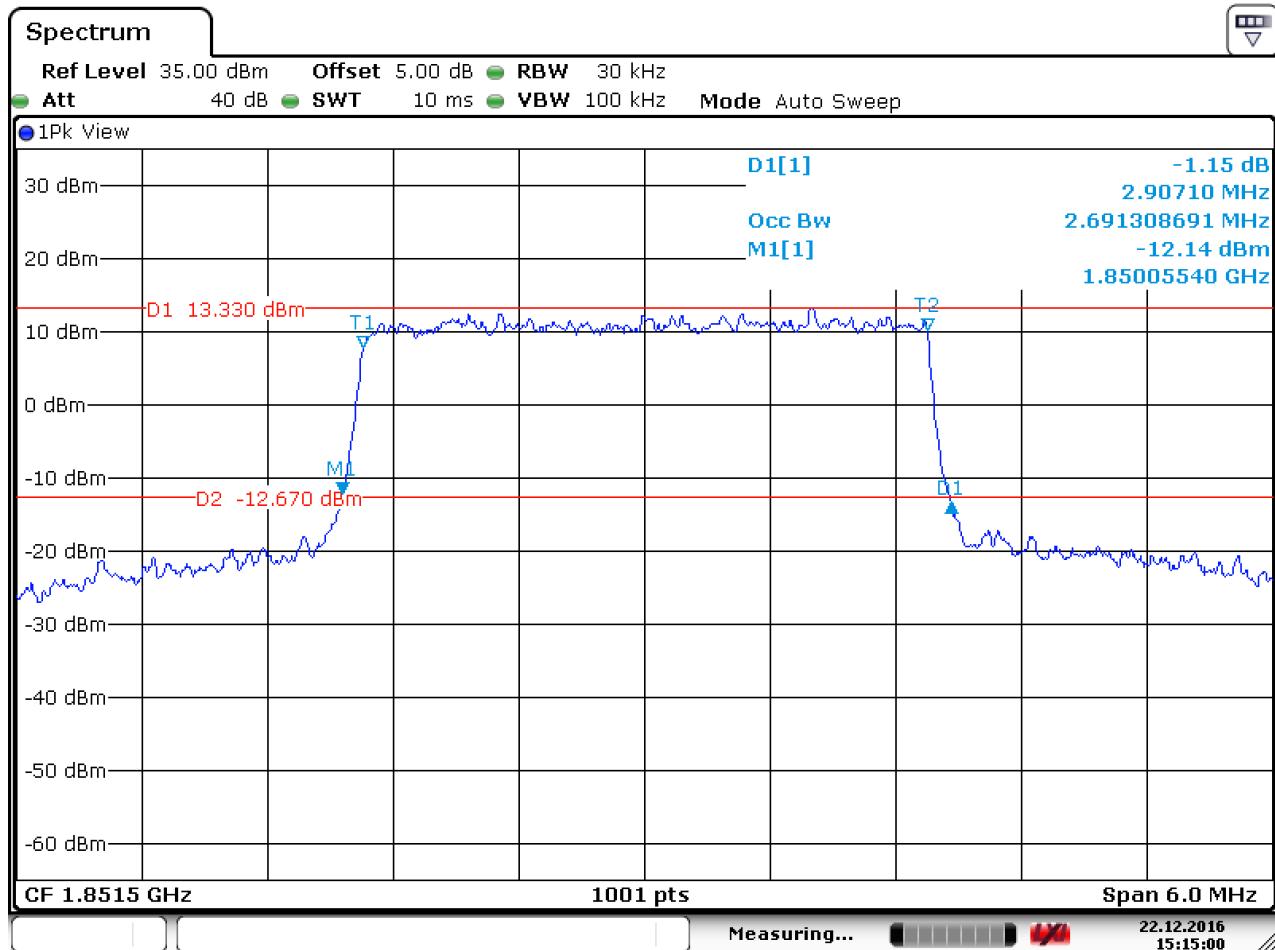
Date: 22.DEC.2016 15:21:50

4.1.1.2.2 Test Channel = MCH

Spectrum				
Ref Level 35.00 dBm	Offset 5.00 dB	RBW 30 kHz		
Att 40 dB	SWT 10 ms	VBW 100 kHz	Mode Auto FFT	

1Pk View

D1[1] −0.01 dB 1.29170 MHz
Occ Bw 1.102897103 MHz
M1[1] −10.12 dBm 1.87935260 GHz

D1 15.490 dBm

D2 −10.510 dBm

CF 1.88 GHz   1001 pts   Span 3.0 MHz

Measuring...   22.12.2016 15:20:39
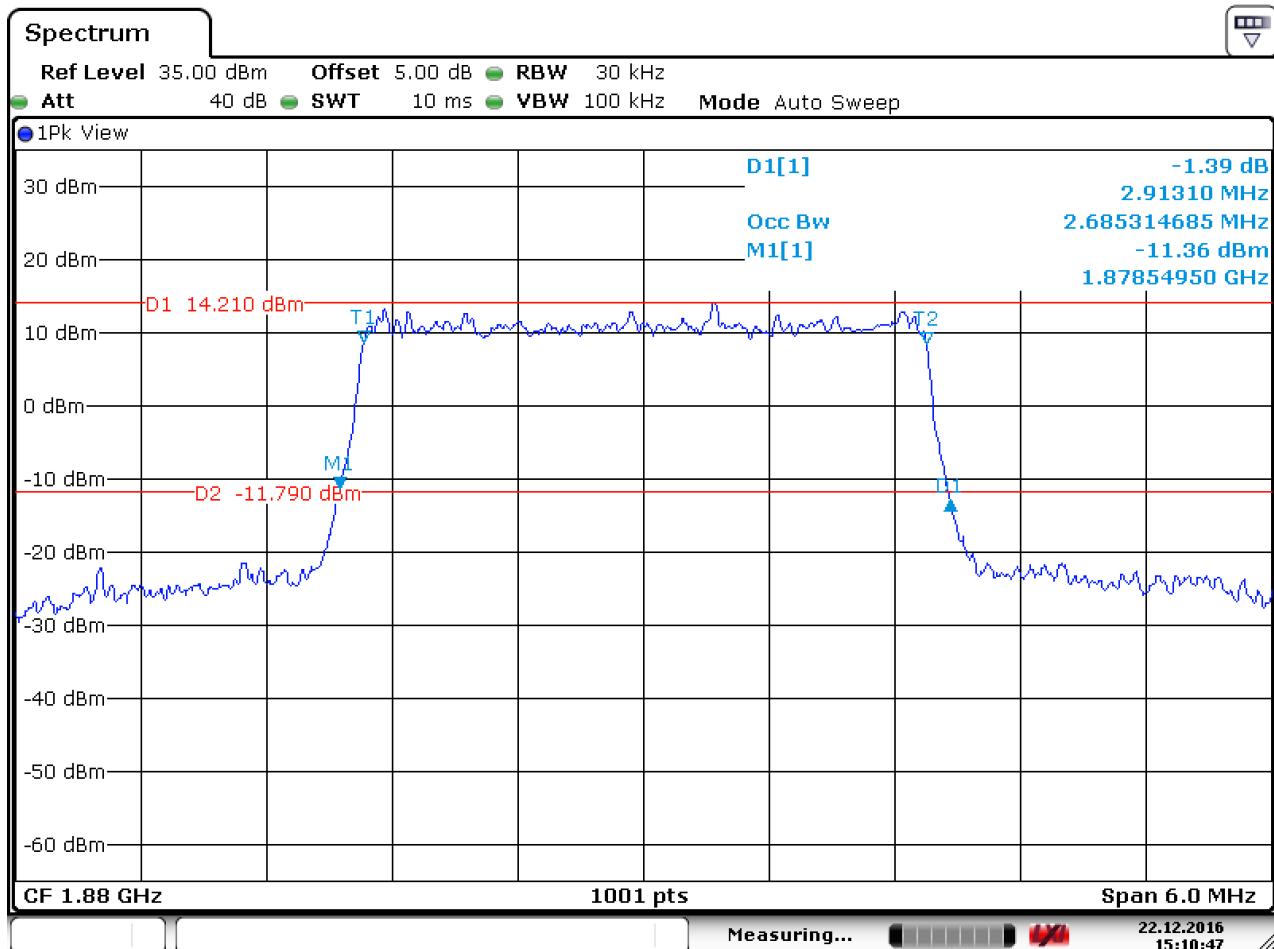
Date: 22.DEC.2016 15:20:40

4.1.1.2.3 Test Channel = HCH
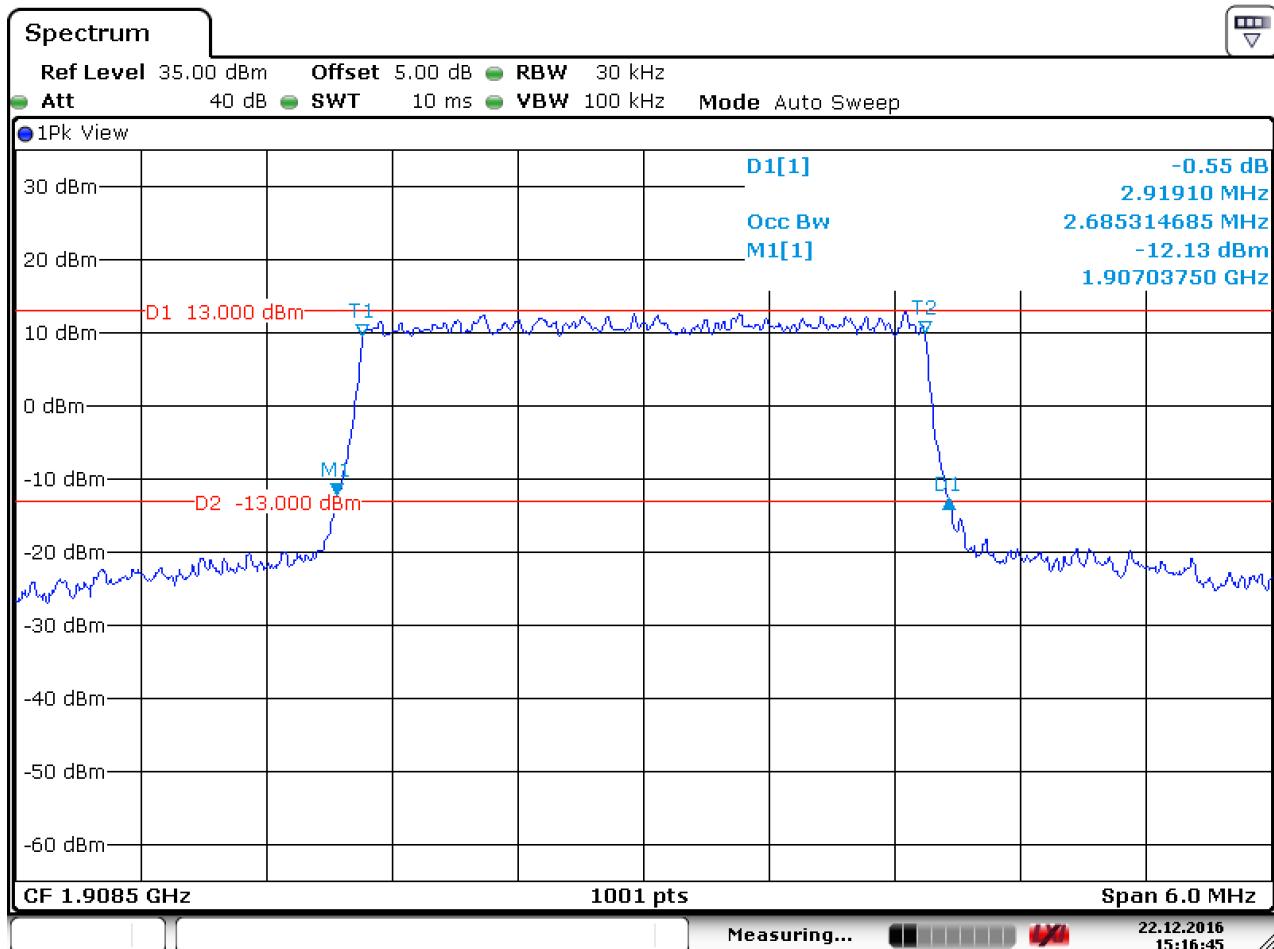
Date: 22.DEC.2016 15:24:22

4.1.1.3   Test Mode = LTE/TM1 3MHz

4.1.1.3.1   Test Channel = LCH
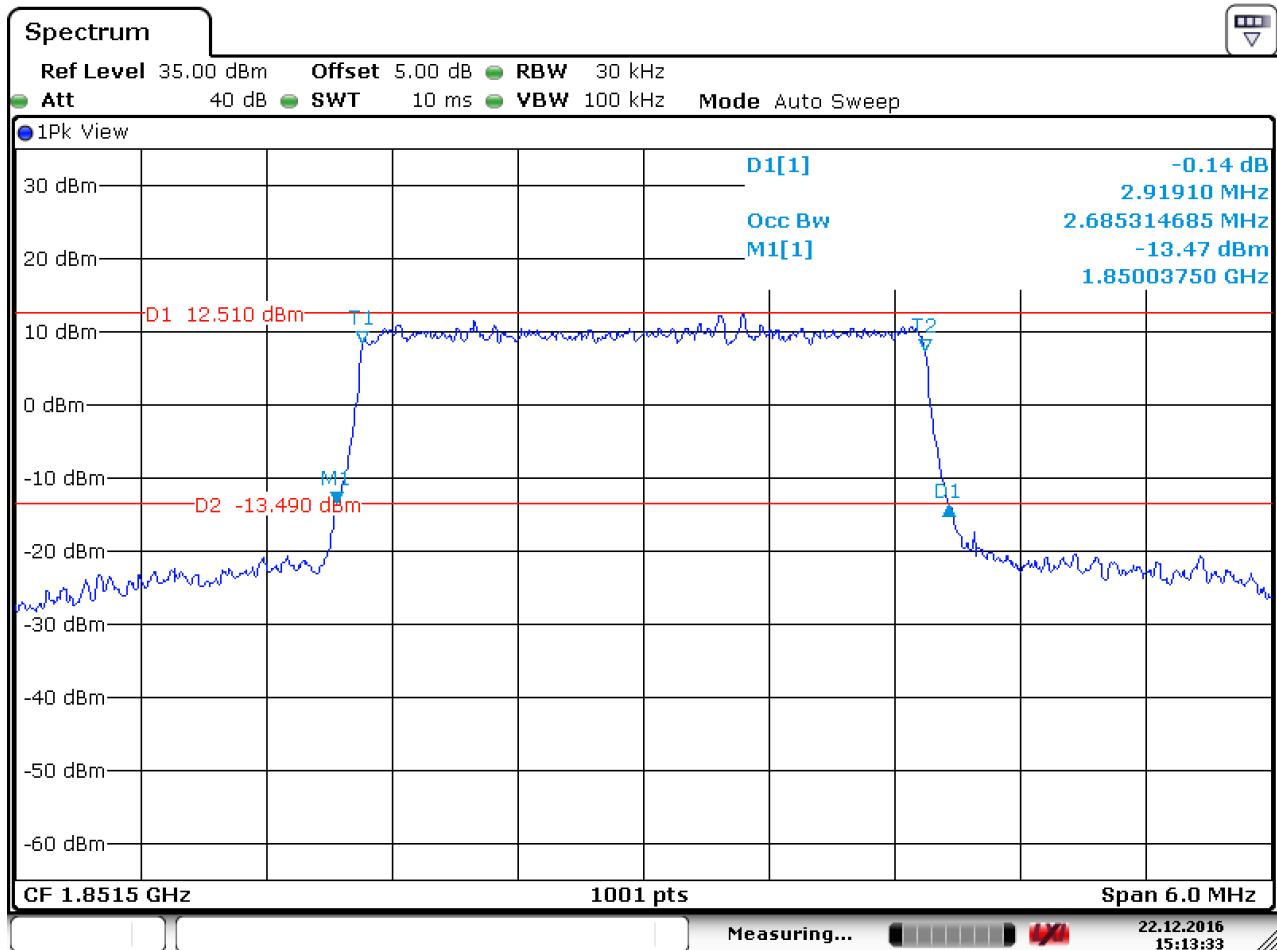
Date: 22.DEC.2016 15:15:00

4.1.1.3.2 Test Channel = MCH
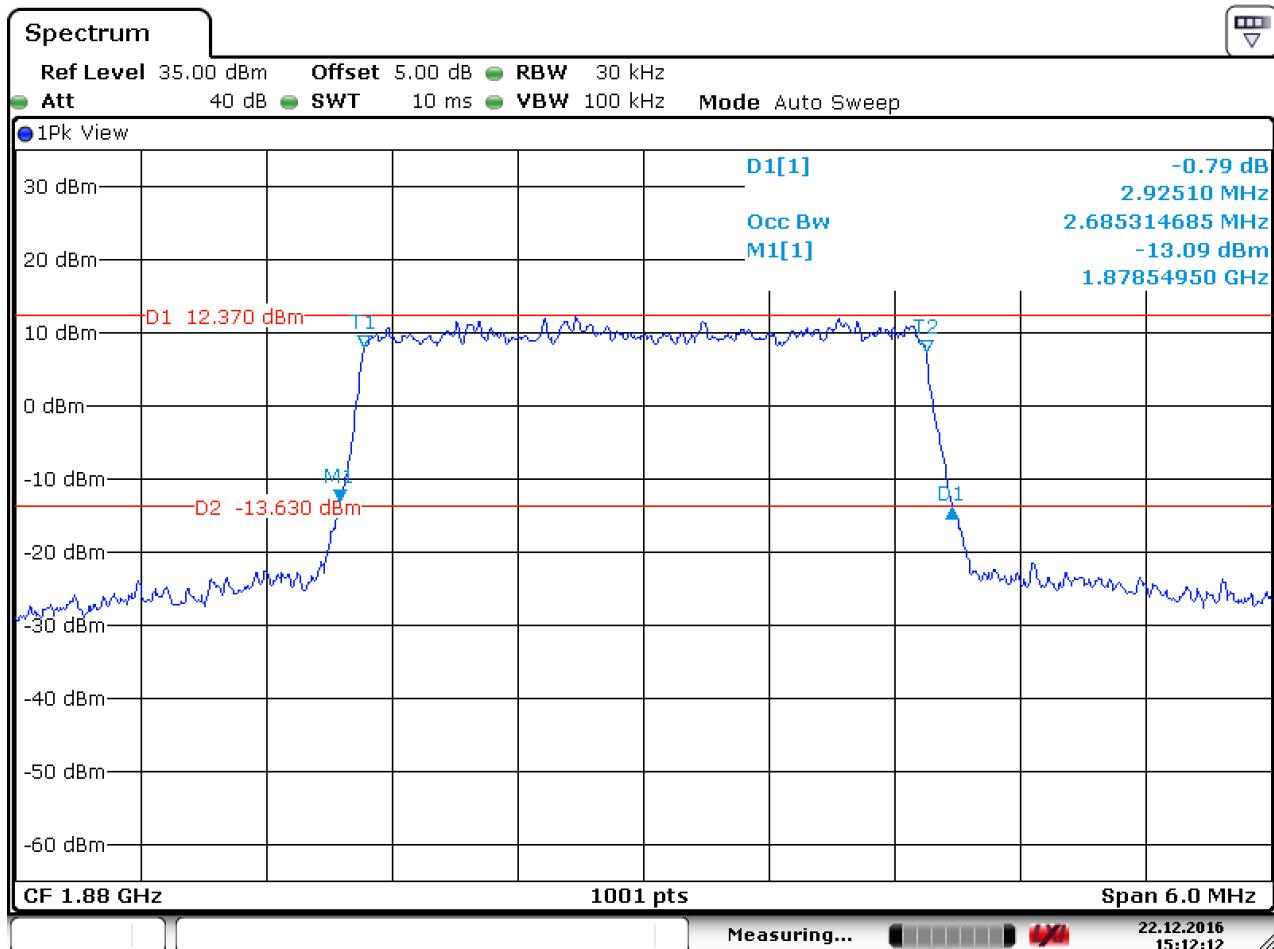
Date: 22.DEC.2016 15:10:48

4.1.1.3.3   Test Channel = HCH

Spectrum				
Ref Level 35.00 dBm	Offset 5.00 dB	RBW	30 kHz	
Att 40 dB	SWT 10 ms	VBW	100 kHz	Mode Auto Sweep

1Pk View

D1[1]   -0.55 dB
                 2.91910 MHz
Occ Bw   2.685314685 MHz
M1[1]   -12.13 dBm
                 1.90703750 GHz

D1 13.000 dBm
D2 -13.000 dBm

CF 1.9085 GHz   1001 pts   Span 6.0 MHz

Measuring...   22.12.2016 15:16:45
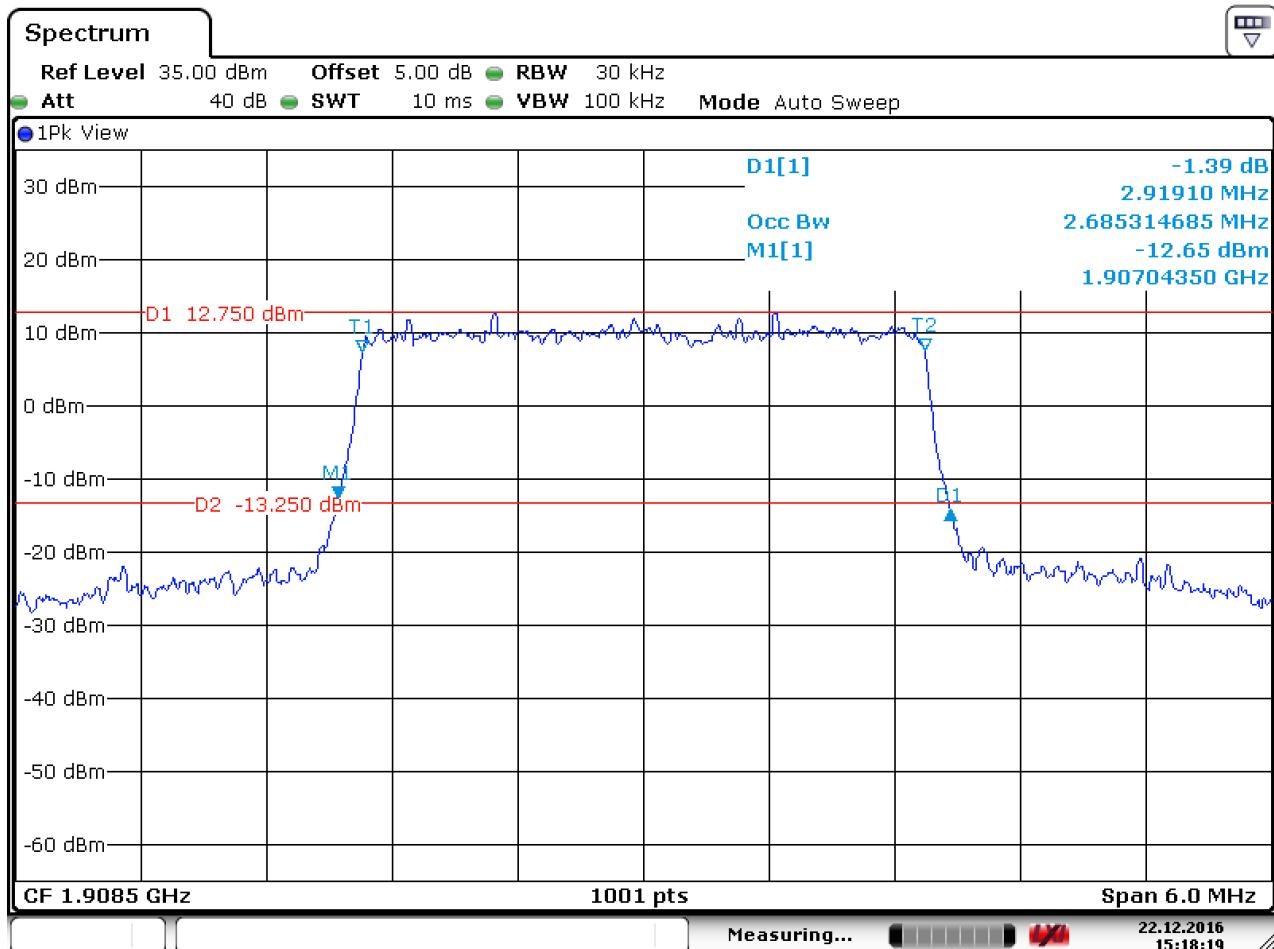
Date: 22.DEC.2016 15:16:45

4.1.1.4   Test Mode = LTE/TM2 3MHz

4.1.1.4.1   Test Channel = LCH
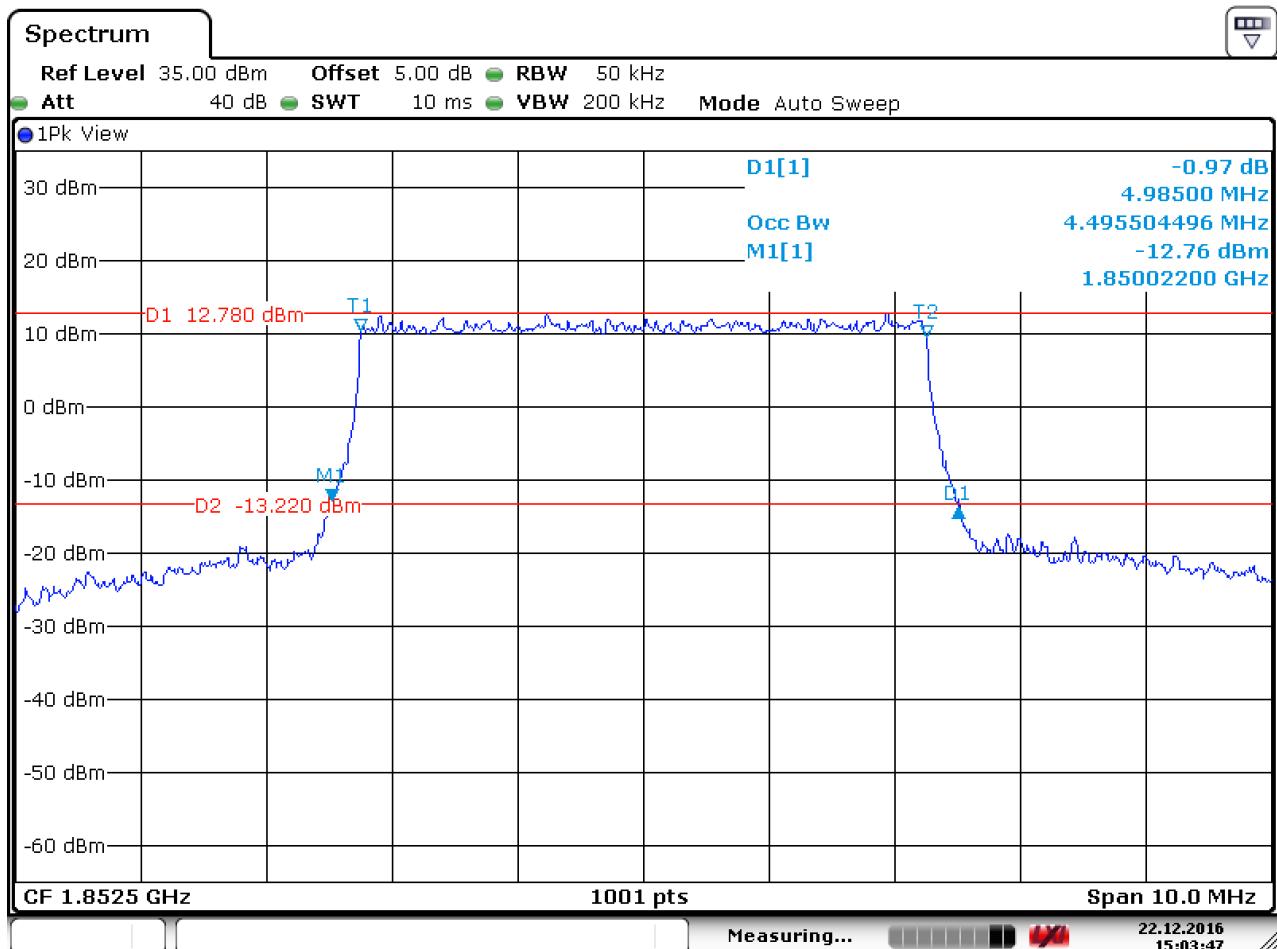
Date: 22.DEC.2016 15:13:33

4.1.1.4.2   Test Channel = MCH

Date: 22.DEC.2016 15:12:13

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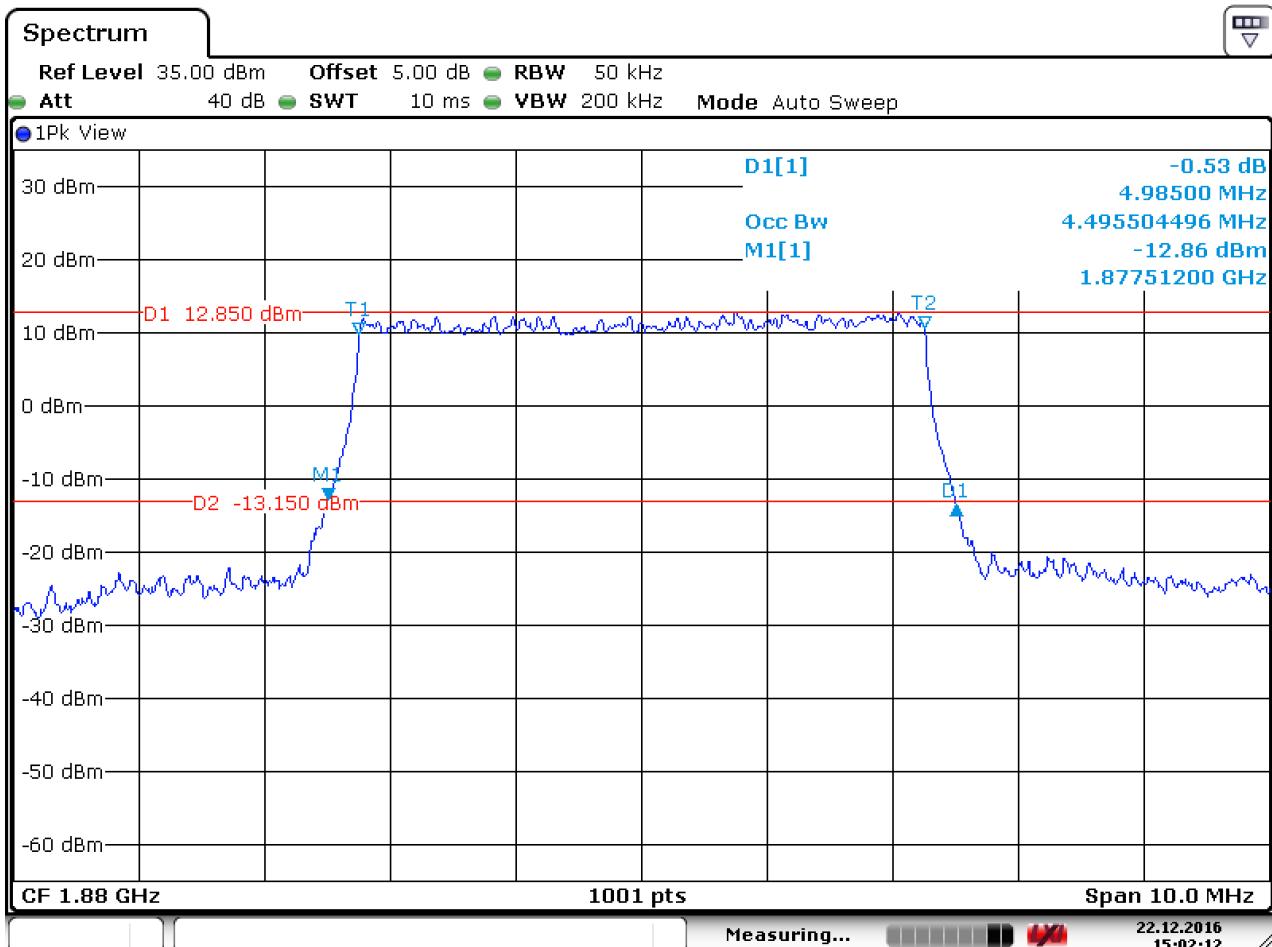
4.1.1.4.3   Test Channel = HCH
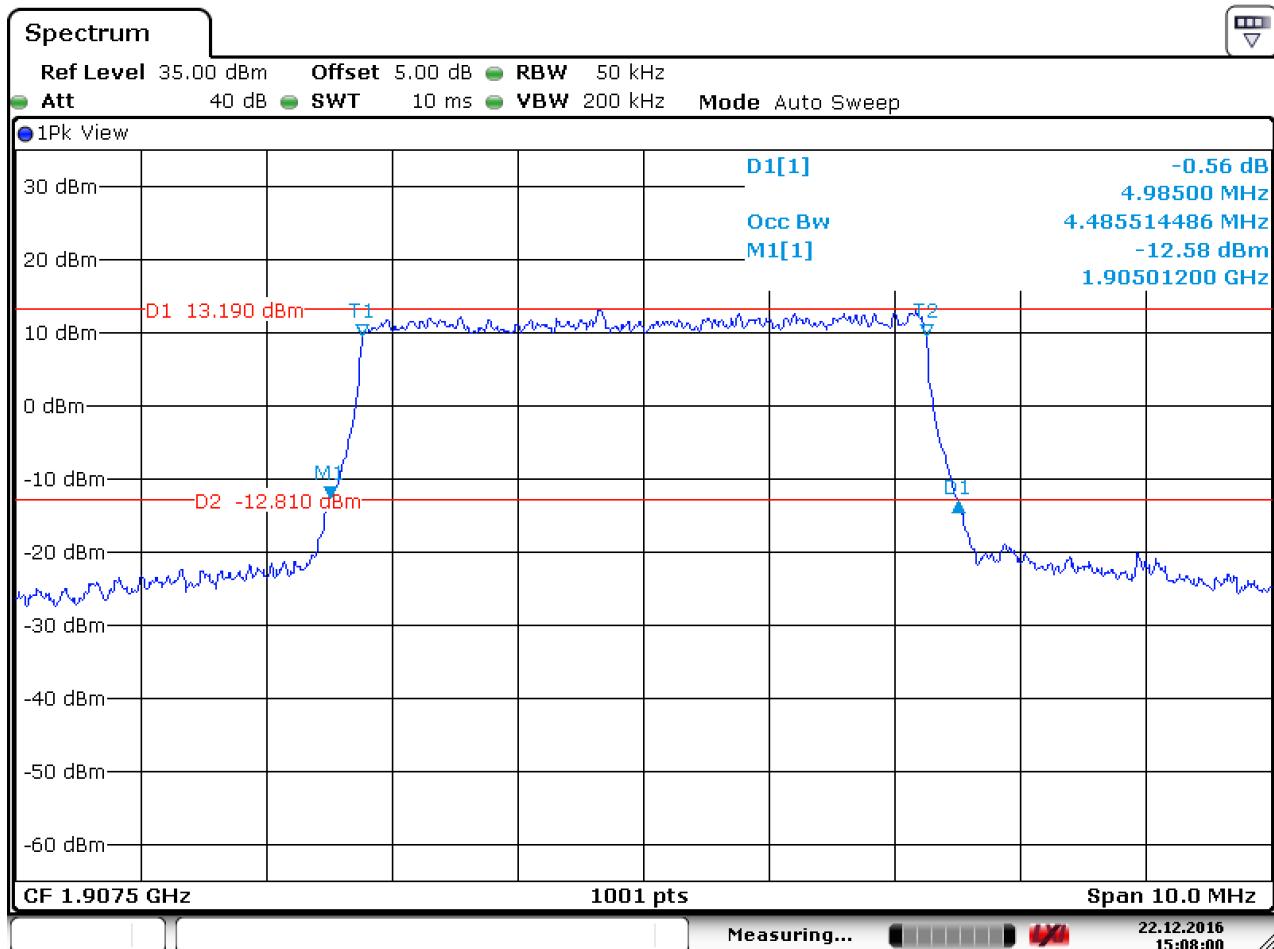
Date: 22.DEC.2016 15:18:20

4.1.1.5   Test Mode = LTE/TM1 5MHz

4.1.1.5.1   Test Channel = LCH
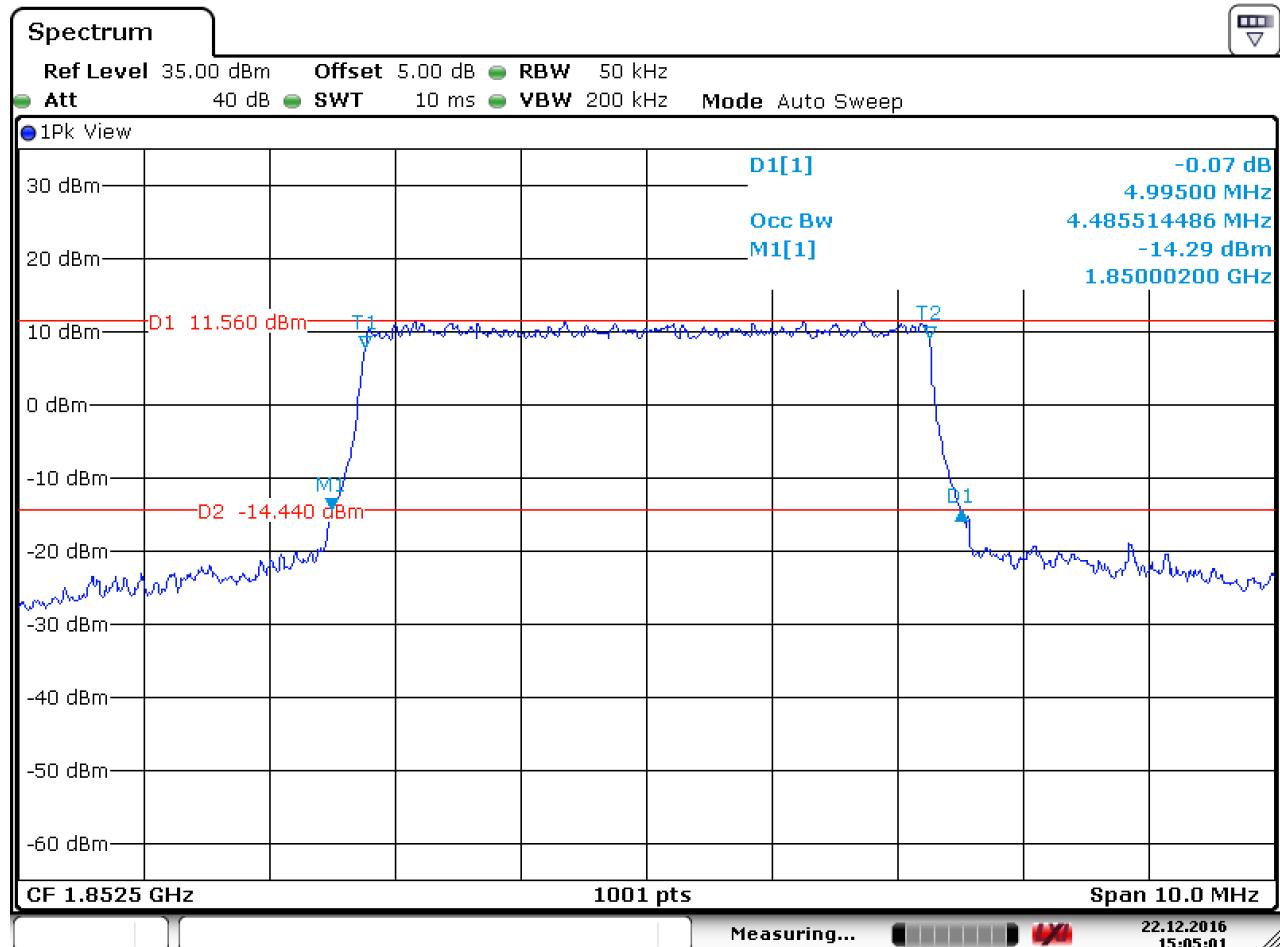
Date: 22.DEC.2016 15:03:47

4.1.1.5.2   Test Channel = MCH

Spectrum

Ref Level 35.00 dBm	Offset 5.00 dB	● RBW	50 kHz	
● Att	40 dB	● SWT 10 ms ● VBW 200 kHz		Mode Auto Sweep

●1Pk View

D1[1]   −0.53 dB
4.98500 MHz
Occ Bw   4.495504496 MHz
M1[1]   −12.86 dBm
1.87751200 GHz

30 dBm

D1 12.850 dBm   T1

20 dBm

10 dBm

0 dBm

−10 dBm   M1

D2 −13.150 dBm   D1

−20 dBm

−30 dBm

−40 dBm

−50 dBm

−60 dBm

CF 1.88 GHz   1001 pts   Span 10.0 MHz

Measuring...   22.12.2016 15:02:12

Date: 22.DEC.2016 15:02:12

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
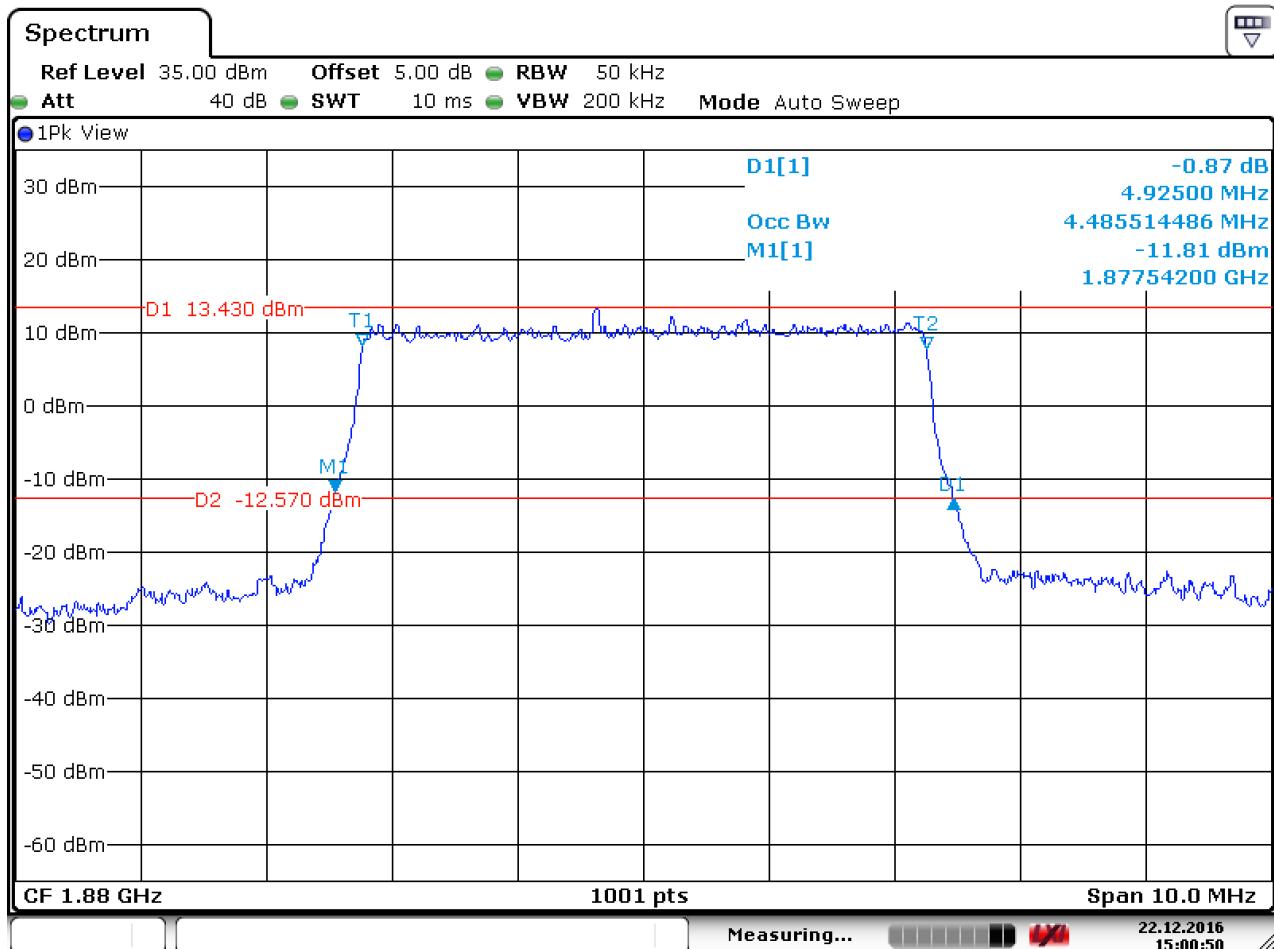
4.1.1.5.3 Test Channel = HCH
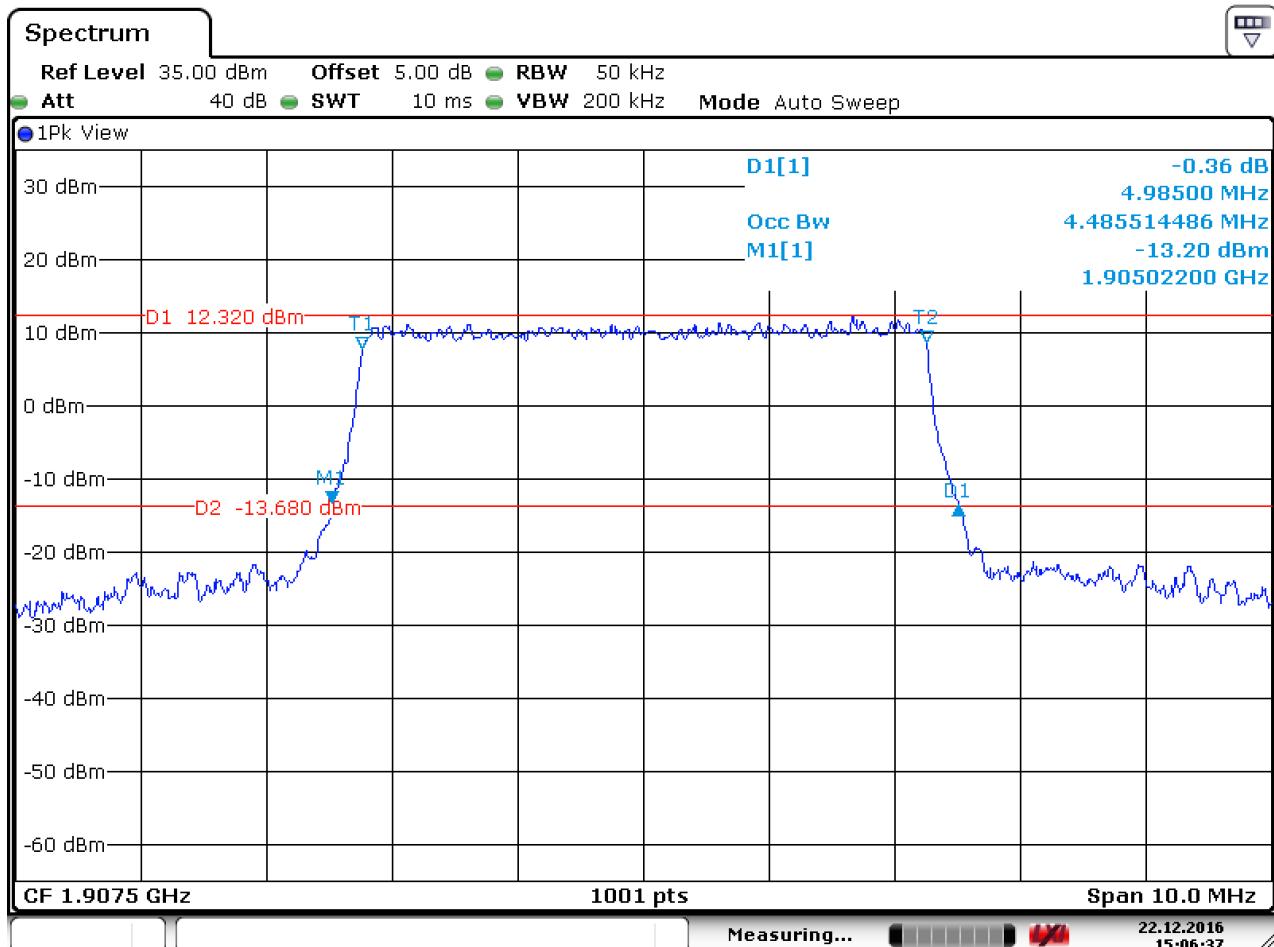
Date: 22.DEC.2016 15:08:00

4.1.1.6 Test Mode = LTE/TM2 5MHz

#### 4.1.1.6.1 Test Channel = LCH
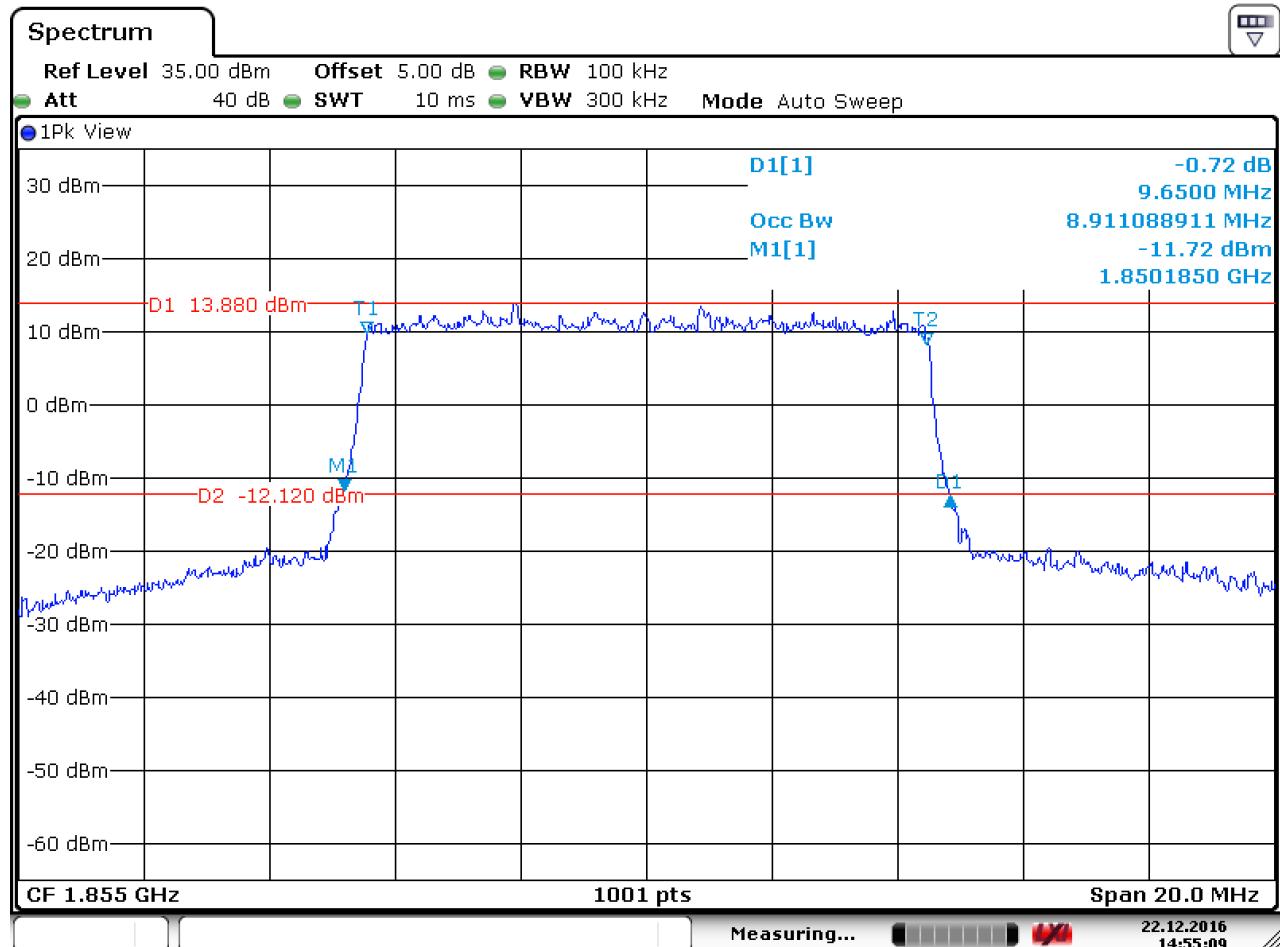
Date: 22.DEC.2016 15:05:02

4.1.1.6.2   Test Channel = MCH

Spectrum					
Ref Level 35.00 dBm	Offset 5.00 dB	● RBW	50 kHz		
● Att	40 dB	● SWT	10 ms	● VBW	200 kHz

Mode Auto Sweep

● 1Pk View

D1[1]   -0.87 dB
         4.92500 MHz
Occ Bw   4.485514486 MHz
M1[1]   -11.81 dBm
         1.87754200 GHz

D1 13.430 dBm
D2 -12.570 dBm

CF 1.88 GHz   1001 pts   Span 10.0 MHz

Measuring...   22.12.2016 15:00:50
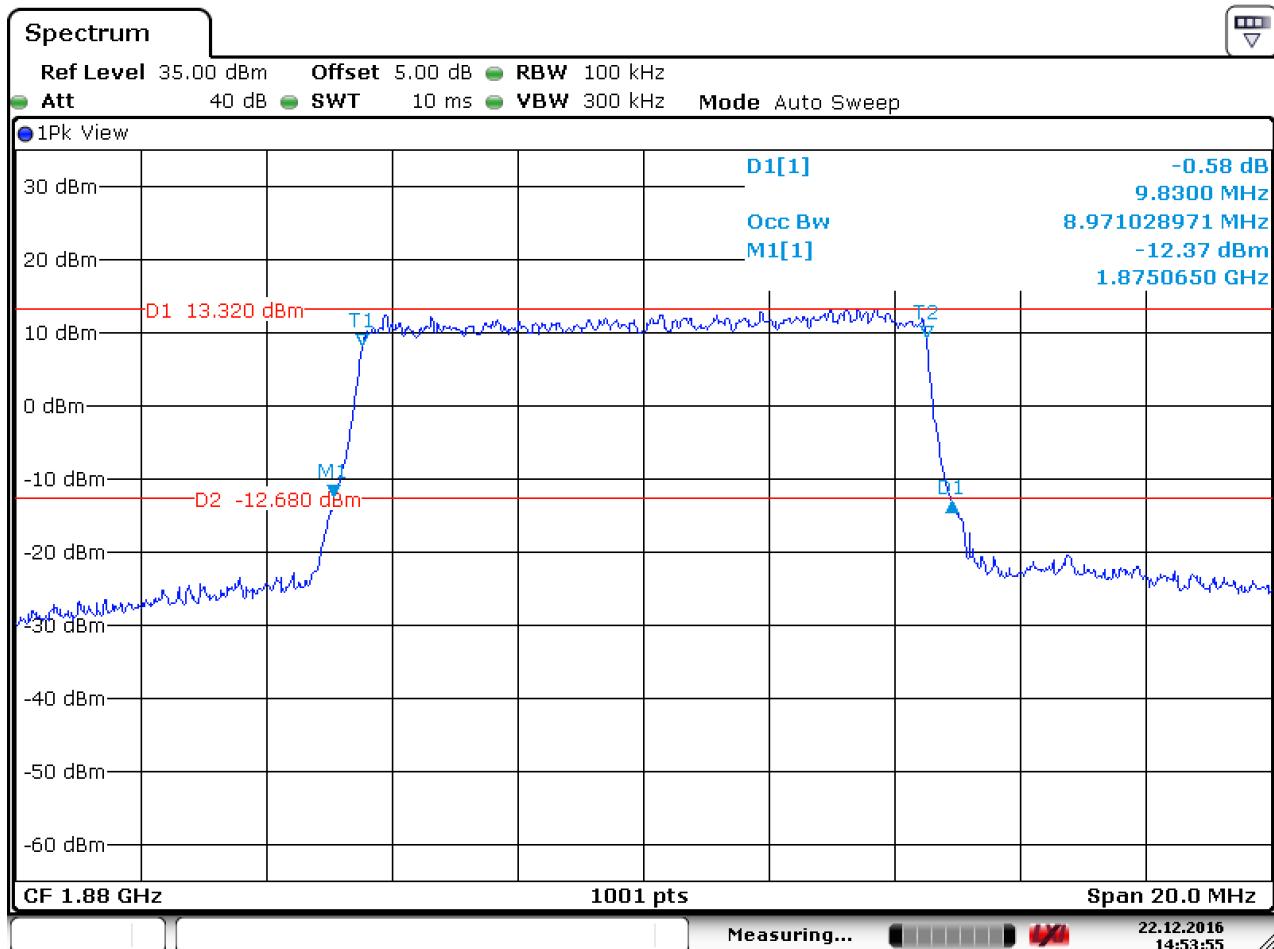
Date: 22.DEC.2016 15:00:50

4.1.1.6.3   Test Channel = HCH

Spectrum

| Ref Level 35.00 dBm | Offset 5.00 dB | ● RBW 50 kHz |
| Att 40 dB | ● SWT 10 ms | ● VBW 200 kHz | Mode Auto Sweep |

●1Pk View

D1[1]   −0.36 dB
            4.98500 MHz
Occ Bw   4.485514486 MHz
M1[1]   −13.20 dBm
            1.90502200 GHz

D1 12.320 dBm

D2 −13.680 dBm

30 dBm

20 dBm

10 dBm

0 dBm

−10 dBm

−20 dBm

−30 dBm

−40 dBm

−50 dBm

−60 dBm

CF 1.9075 GHz   1001 pts   Span 10.0 MHz

Measuring...   22.12.2016
                                    15:06:37

Date: 22.DEC.2016 15:06:37

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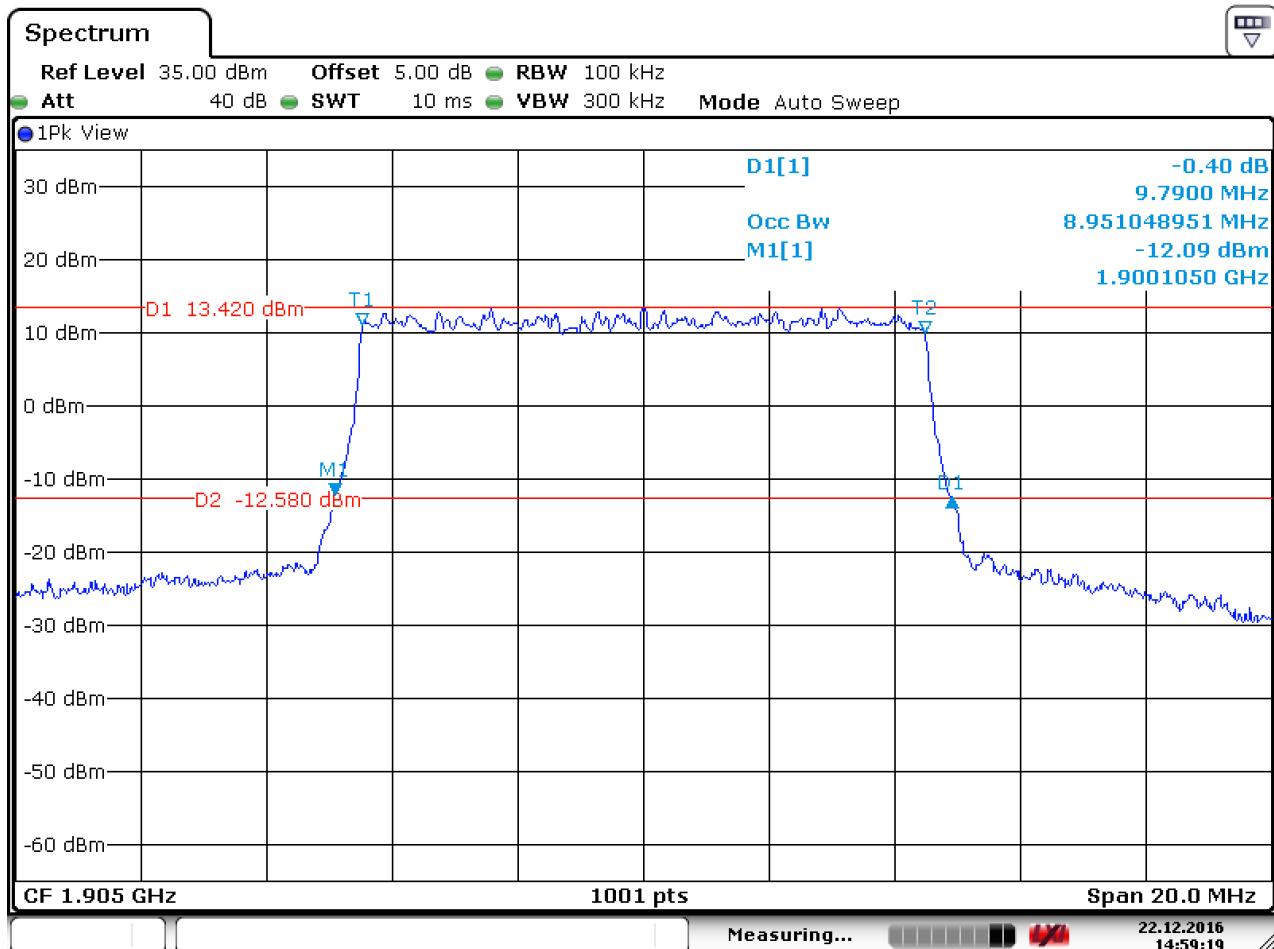
4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH
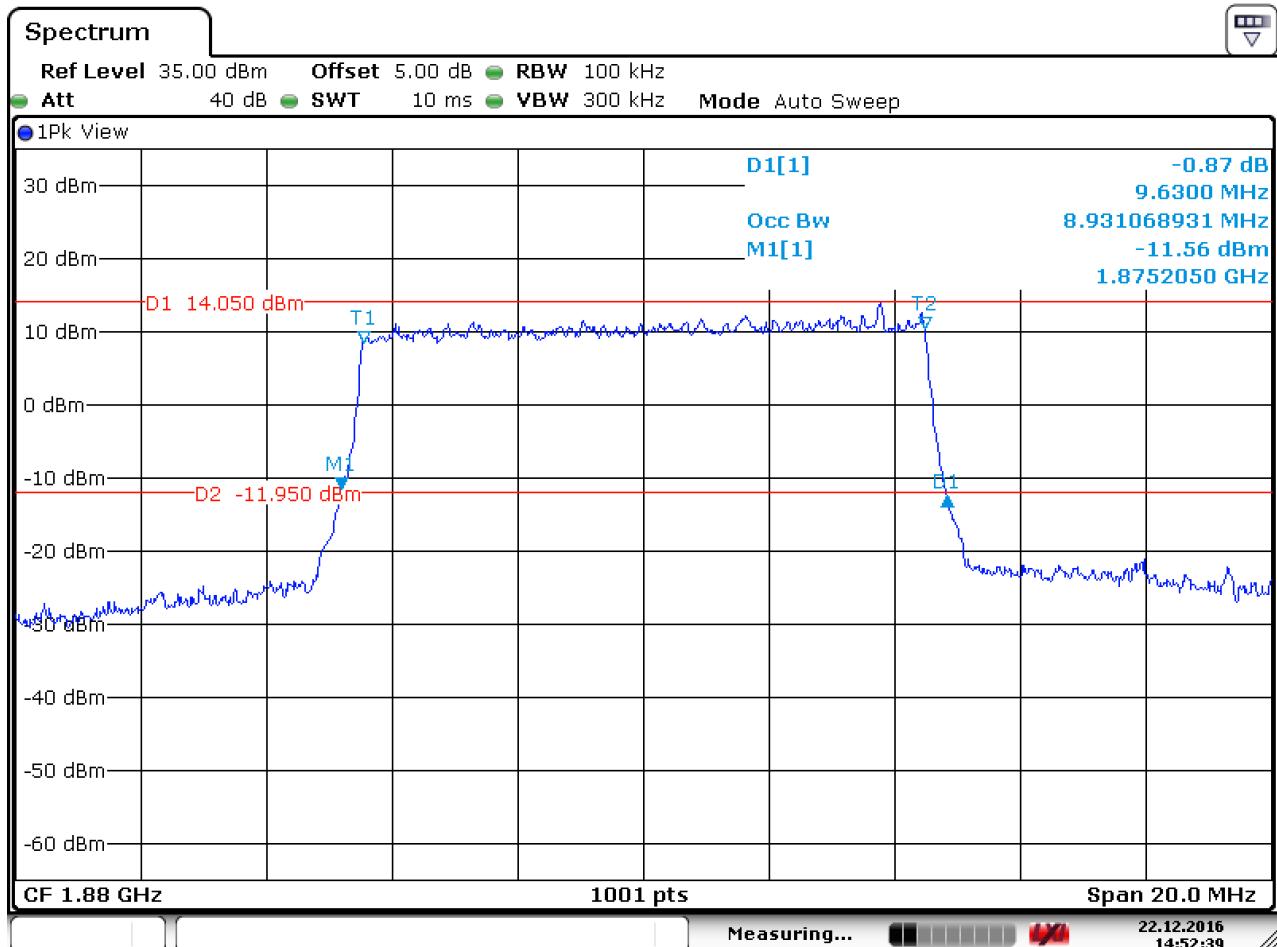
Date: 22.DEC.2016 14:55:10

### 4.1.1.7.2   Test Channel = MCH

Date: 22.DEC.2016 14:53:56

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4.1.1.7.3   Test Channel = HCH


```
Spectrum

Ref Level  35.00 dBm    Offset  5.00 dB   ● RBW  100 kHz
● Att         40 dB     ● SWT  10 ms      ● VBW  300 kHz    Mode  Auto Sweep

●1Pk View

                                          D1[1]              -0.40 dB
30 dBm                                                       9.7900 MHz
                                          Occ Bw          8.951048951 MHz
20 dBm                                     M1[1]              -12.09 dBm
                                                            1.9001050 GHz

        D1  13.420 dBm    T1                          T2
10 dBm

0 dBm

-10 dBm             M1                                        D1
        D2  -12.580 dBm
-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

CF 1.905 GHz                    1001 pts                   Span 20.0 MHz

                           Measuring...                    22.12.2016
                                                           14:59:19
```
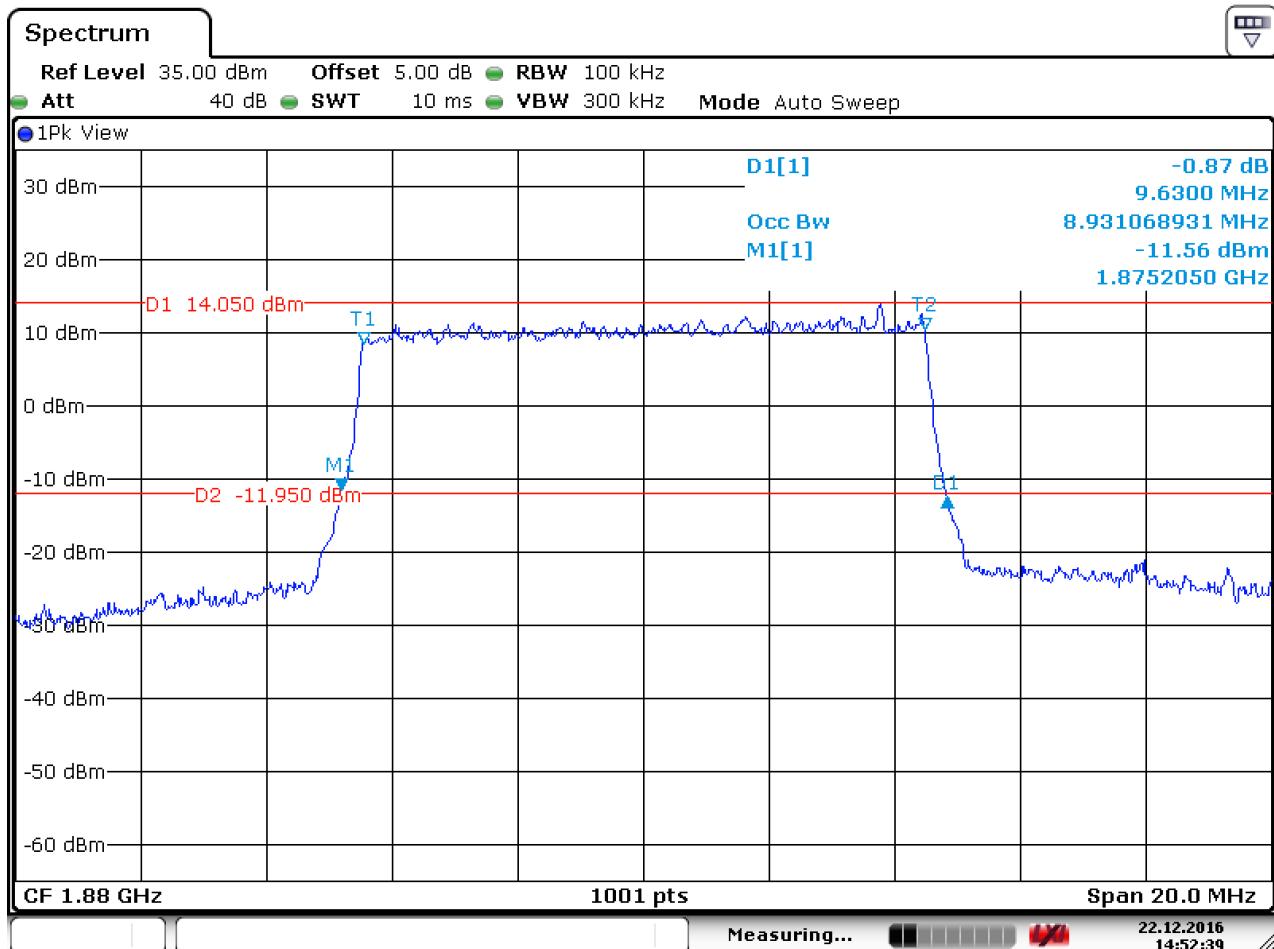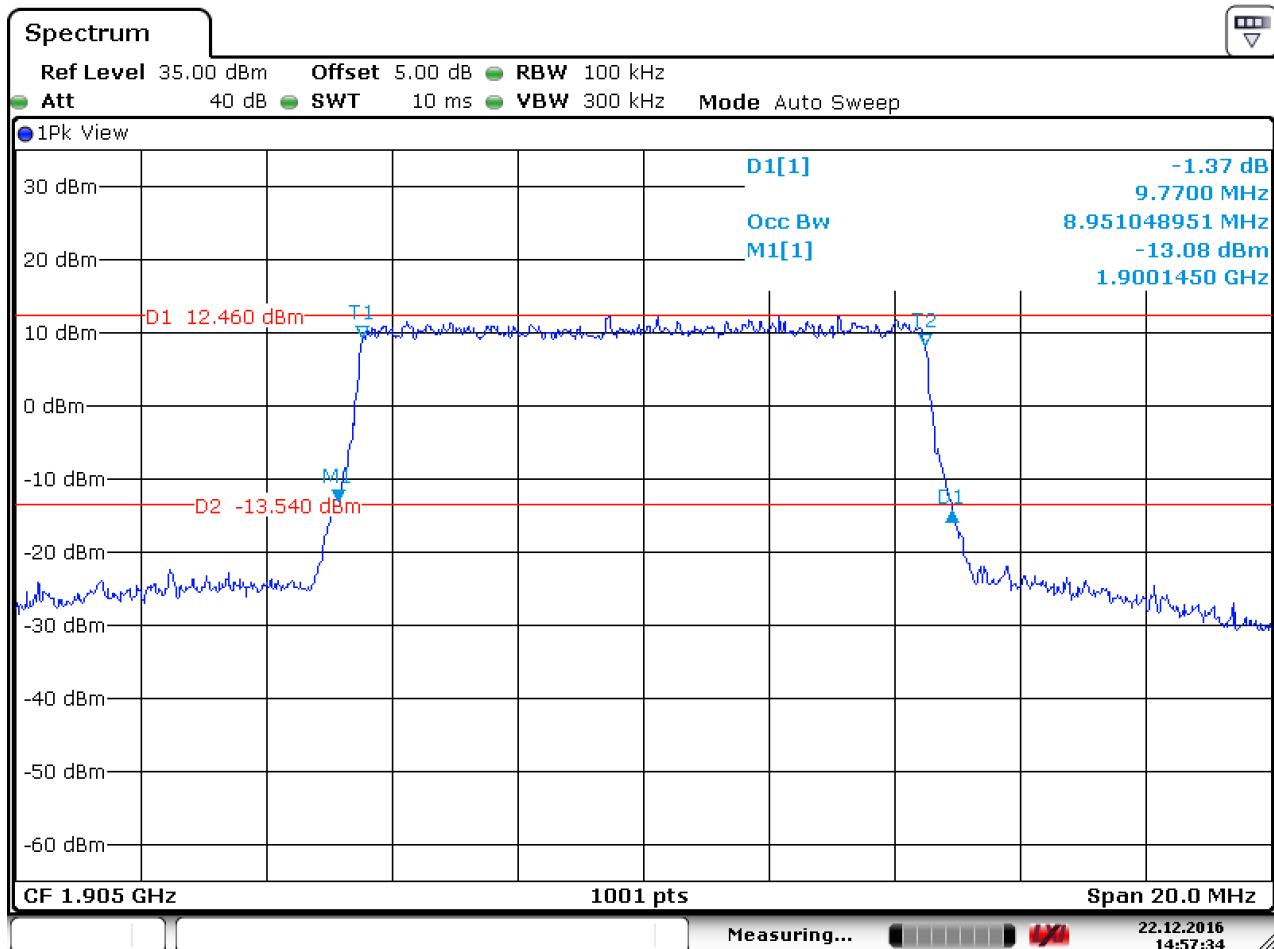
Date: 22.DEC.2016 14:59:18

4.1.1.8   Test Mode = LTE/TM2 10MHz

**4.1.1.8.1   Test Channel = LCH**
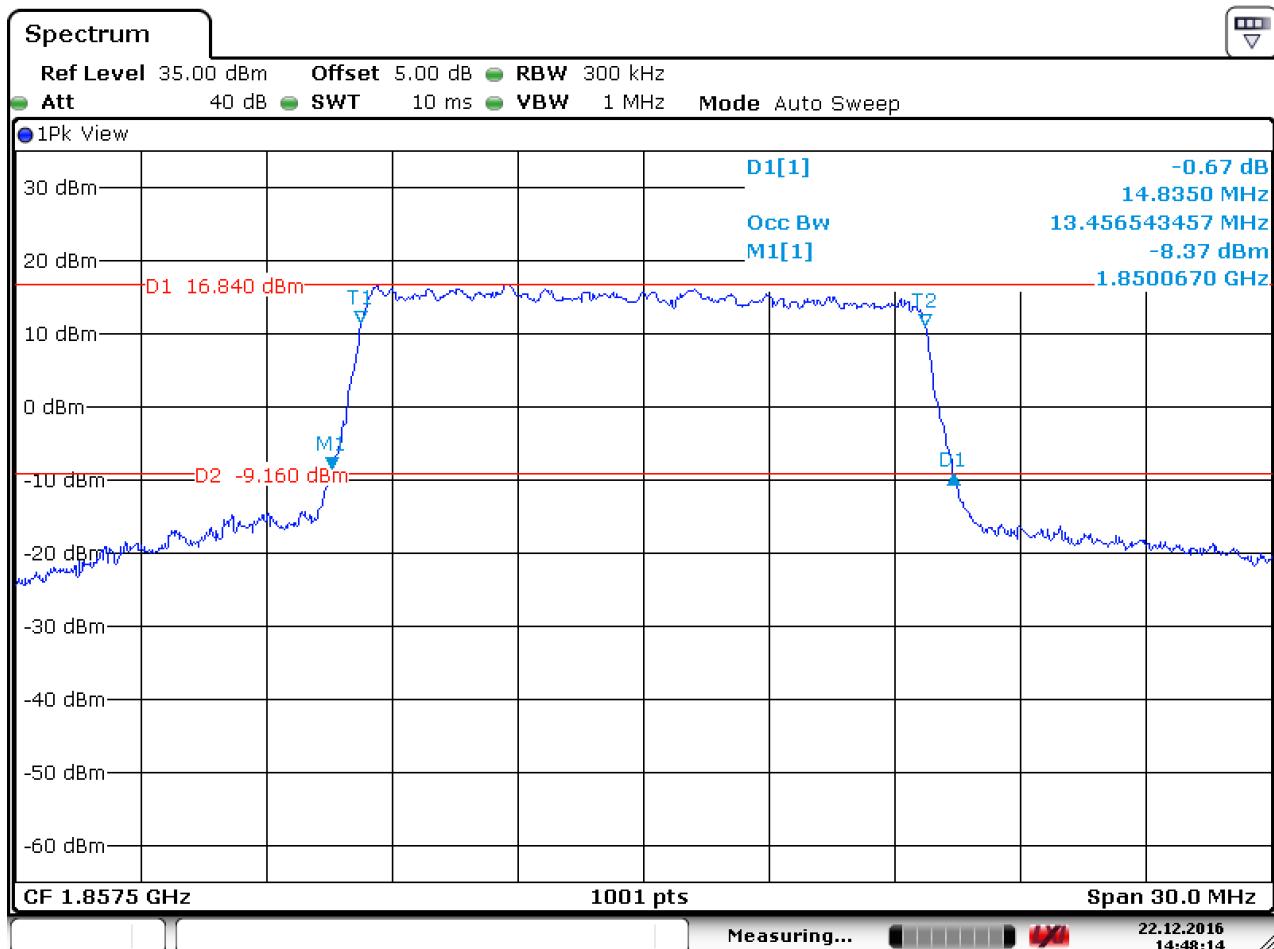
Date: 22.DEC.2016 14:52:39

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4.1.1.8.2   Test Channel = MCH

Date: 22.DEC.2016 14:52:39

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4.1.1.8.3 Test Channel = HCH

Spectrum				
Ref Level 35.00 dBm	Offset 5.00 dB	● RBW 100 kHz		
● Att 40 dB	● SWT 10 ms	● VBW 300 kHz	Mode Auto Sweep	

● 1Pk View

D1[1] −1.37 dB
9.7700 MHz

Occ Bw 8.951048951 MHz

M1[1] −13.08 dBm
1.9001450 GHz

D1 12.460 dBm

D2 −13.540 dBm

CF 1.905 GHz   1001 pts   Span 20.0 MHz

Measuring...   22.12.2016 14:57:34

Date: 22.DEC.2016 14:57:34

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
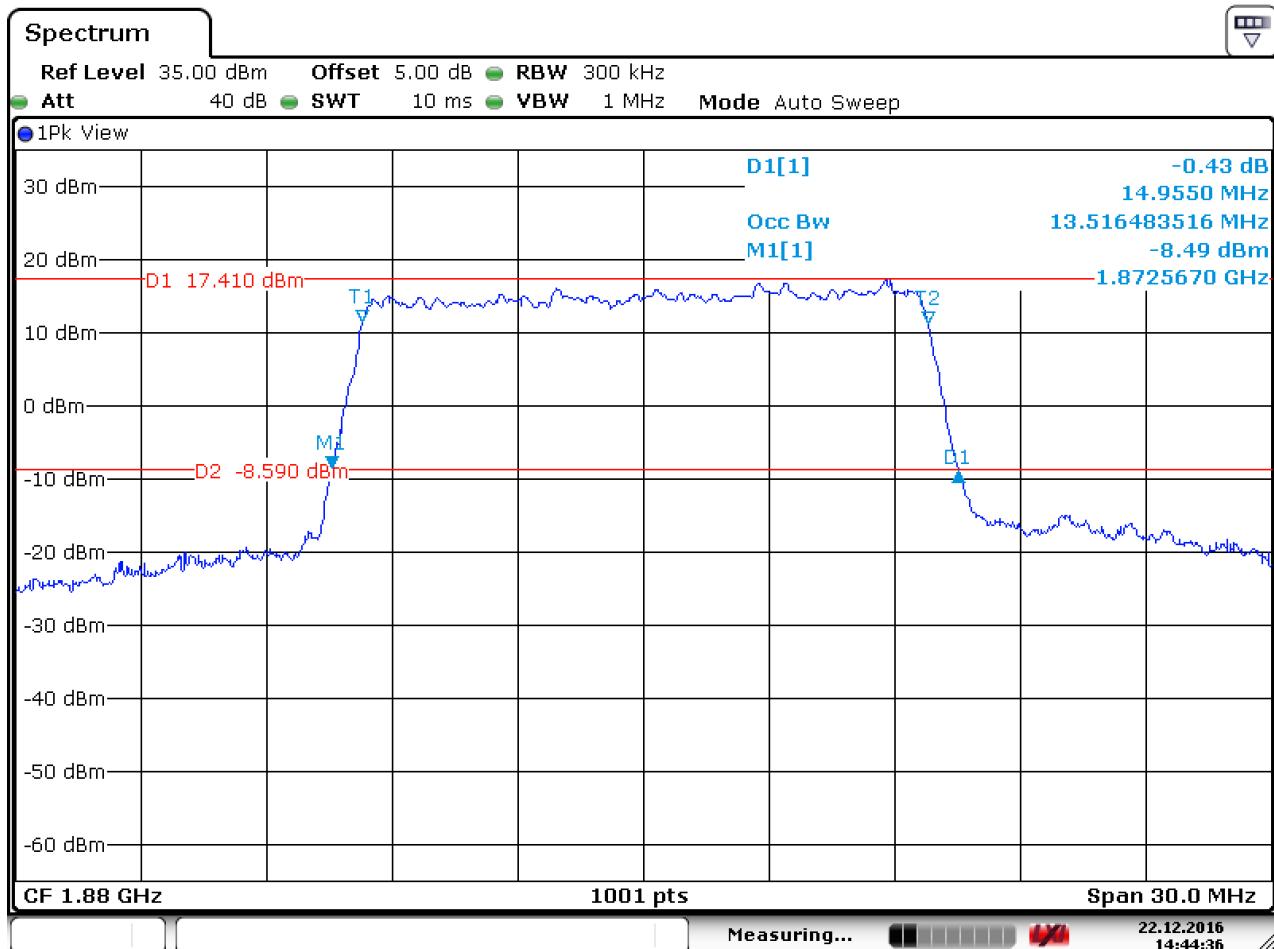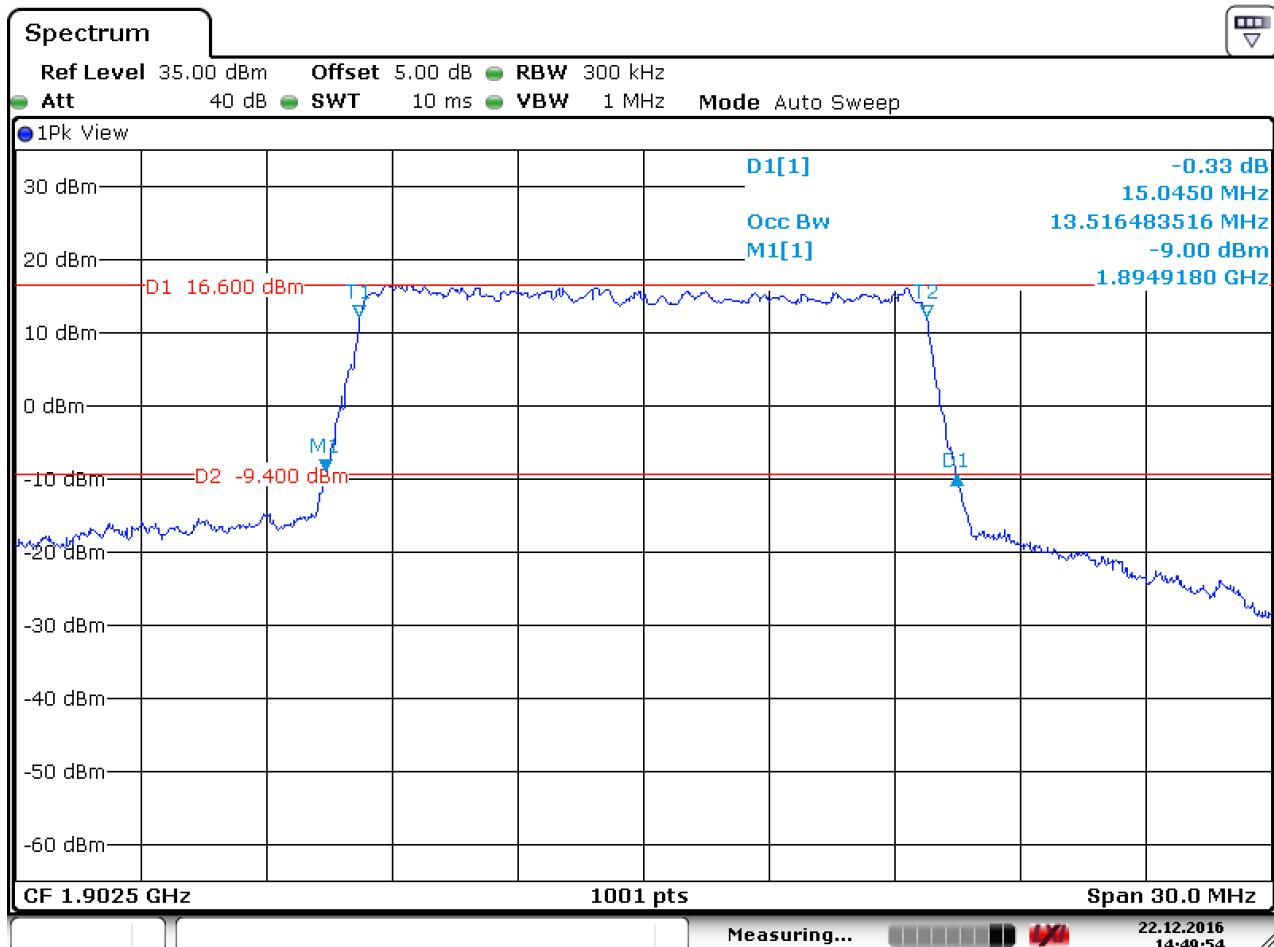
4.1.1.9   Test Mode = LTE/TM1 15MHz

4.1.1.9.1   Test Channel = LCH
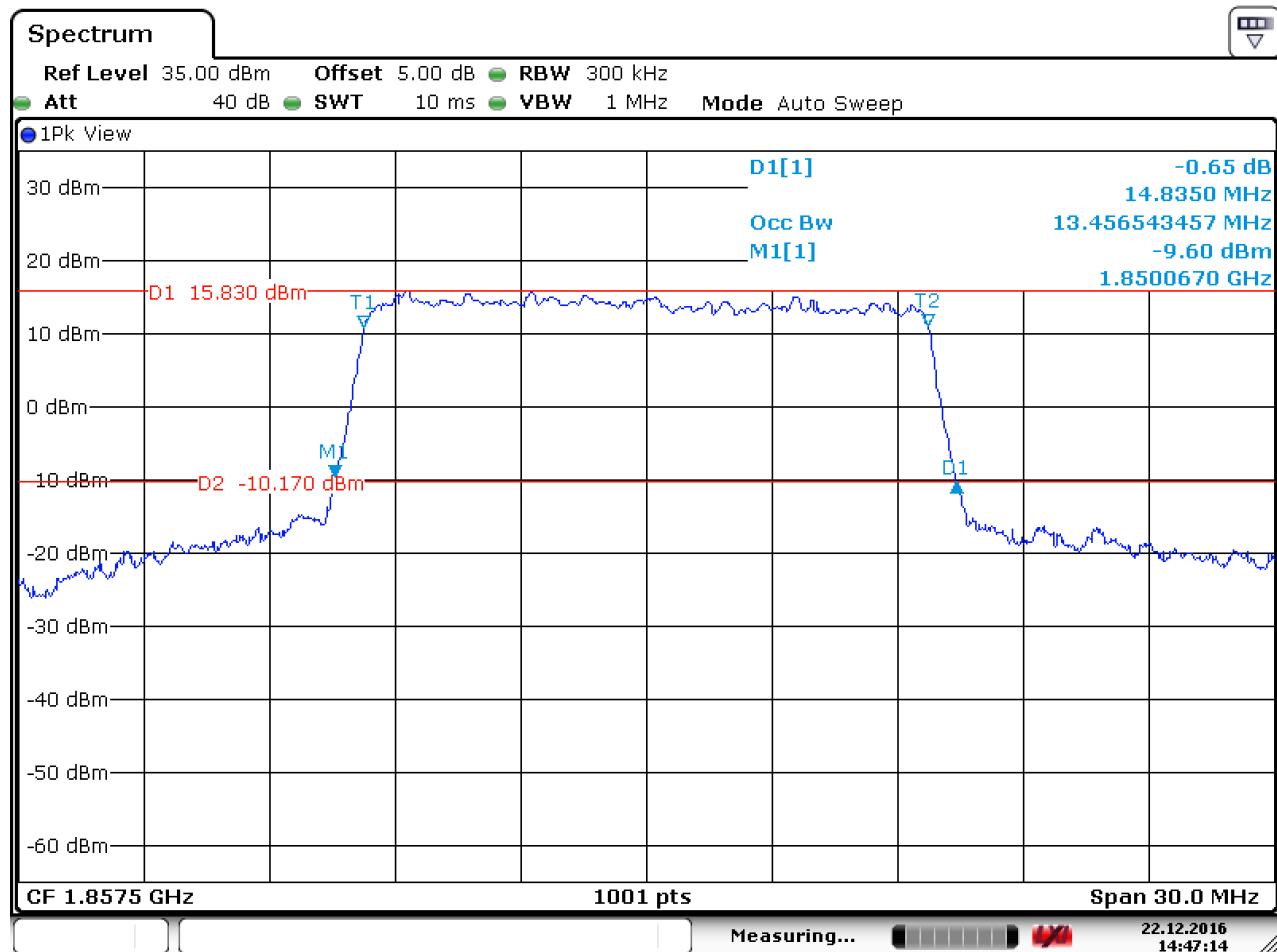
Date: 22.DEC.2016 14:48:15

4.1.1.9.2   Test Channel = MCH

```
Spectrum

Ref Level  35.00 dBm    Offset  5.00 dB   ● RBW  300 kHz
● Att          40 dB   ● SWT    10 ms   ● VBW   1 MHz    Mode  Auto Sweep

●1Pk View
                                          D1[1]              -0.43 dB
 30 dBm                                                     14.9550 MHz
                                          Occ Bw        13.516483516 MHz
 20 dBm                                    M1[1]              -8.49 dBm
D1  17.410 dBm                                            1.8725670 GHz
                          T1
 10 dBm

  0 dBm
                       M1                              D1
-10 dBm  D2  -8.590 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

CF 1.88 GHz                    1001 pts              Span 30.0 MHz

                          Measuring...               22.12.2016
                                                      14:44:36
```
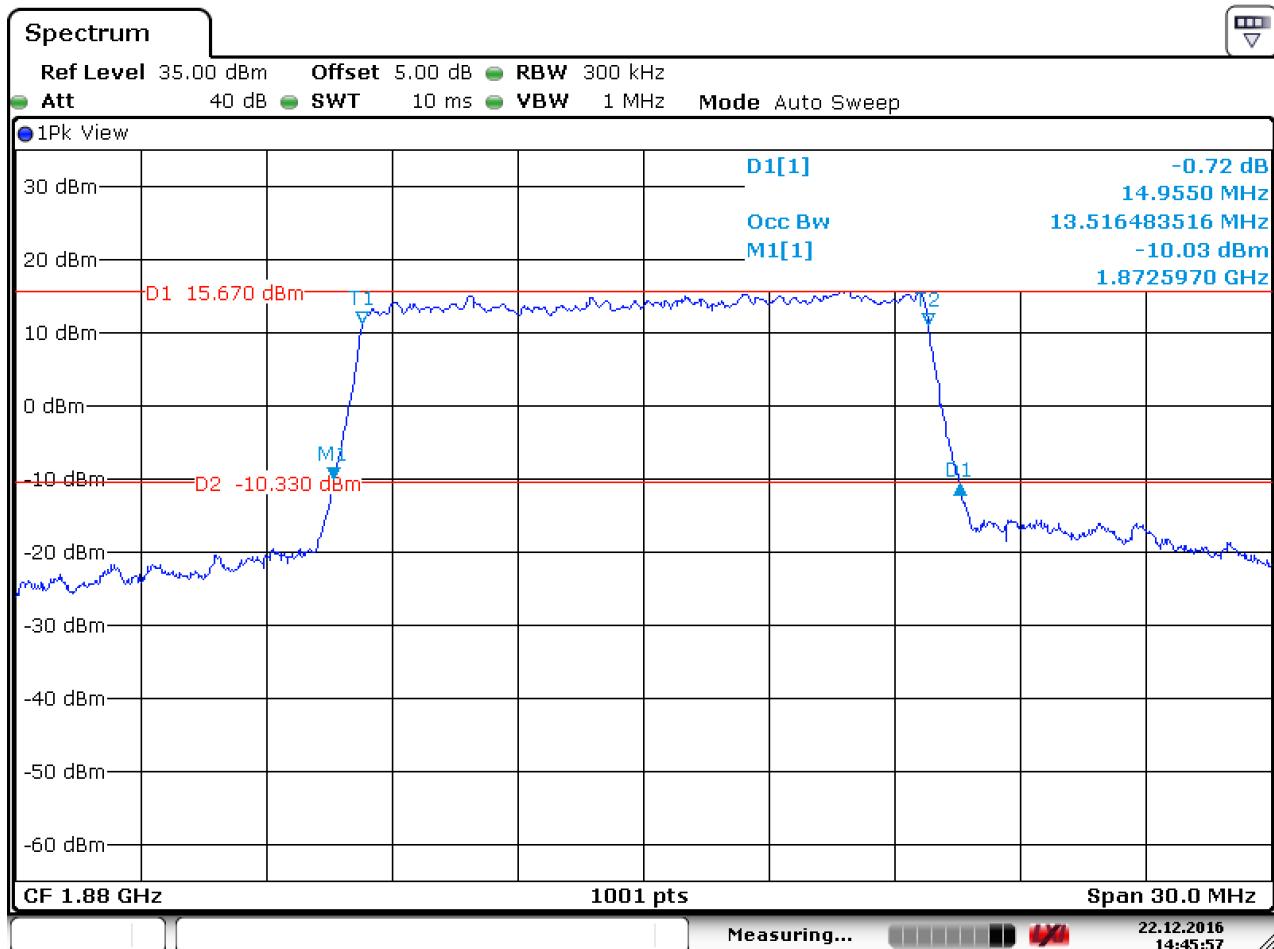
Date: 22.DEC.2016 14:44:37

4.1.1.9.3   Test Channel = HCH

Spectrum					
Ref Level 35.00 dBm	**Offset** 5.00 dB	● **RBW** 300 kHz			
● **Att** 40 dB	● **SWT** 10 ms	● **VBW** 1 MHz	**Mode** Auto Sweep		

● 1Pk View

D1[1]   -0.33 dB
                             15.0450 MHz
Occ Bw   13.516483516 MHz
M1[1]   -9.00 dBm
                             1.8949180 GHz

D1 16.600 dBm

D2 -9.400 dBm

CF 1.9025 GHz   1001 pts   Span 30.0 MHz

Measuring...   22.12.2016 14:49:54
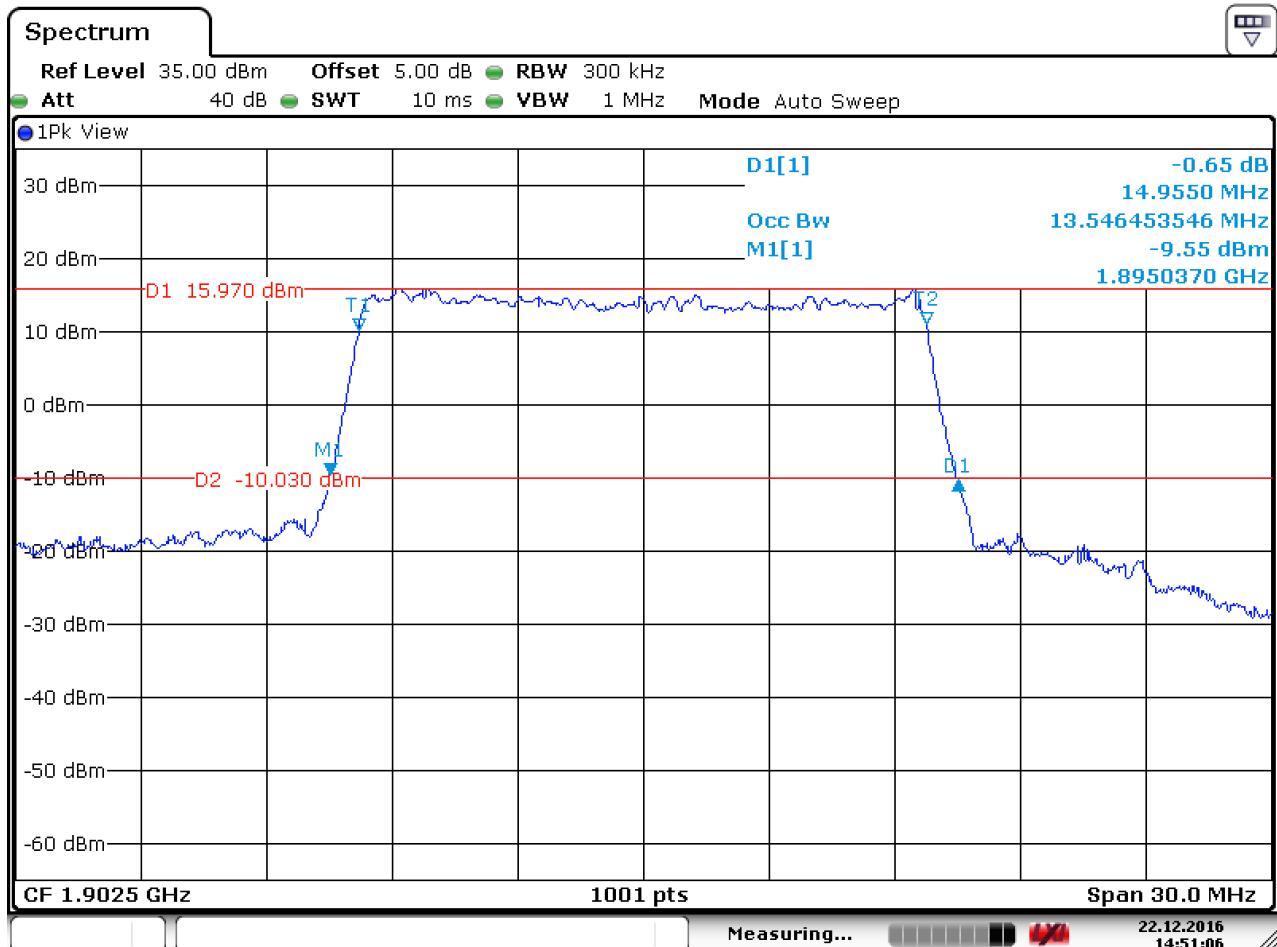
Date: 22.DEC.2016 14:49:54

4.1.1.10   Test Mode = LTE/TM2 15MHz

4.1.1.10.1 Test Channel = LCH
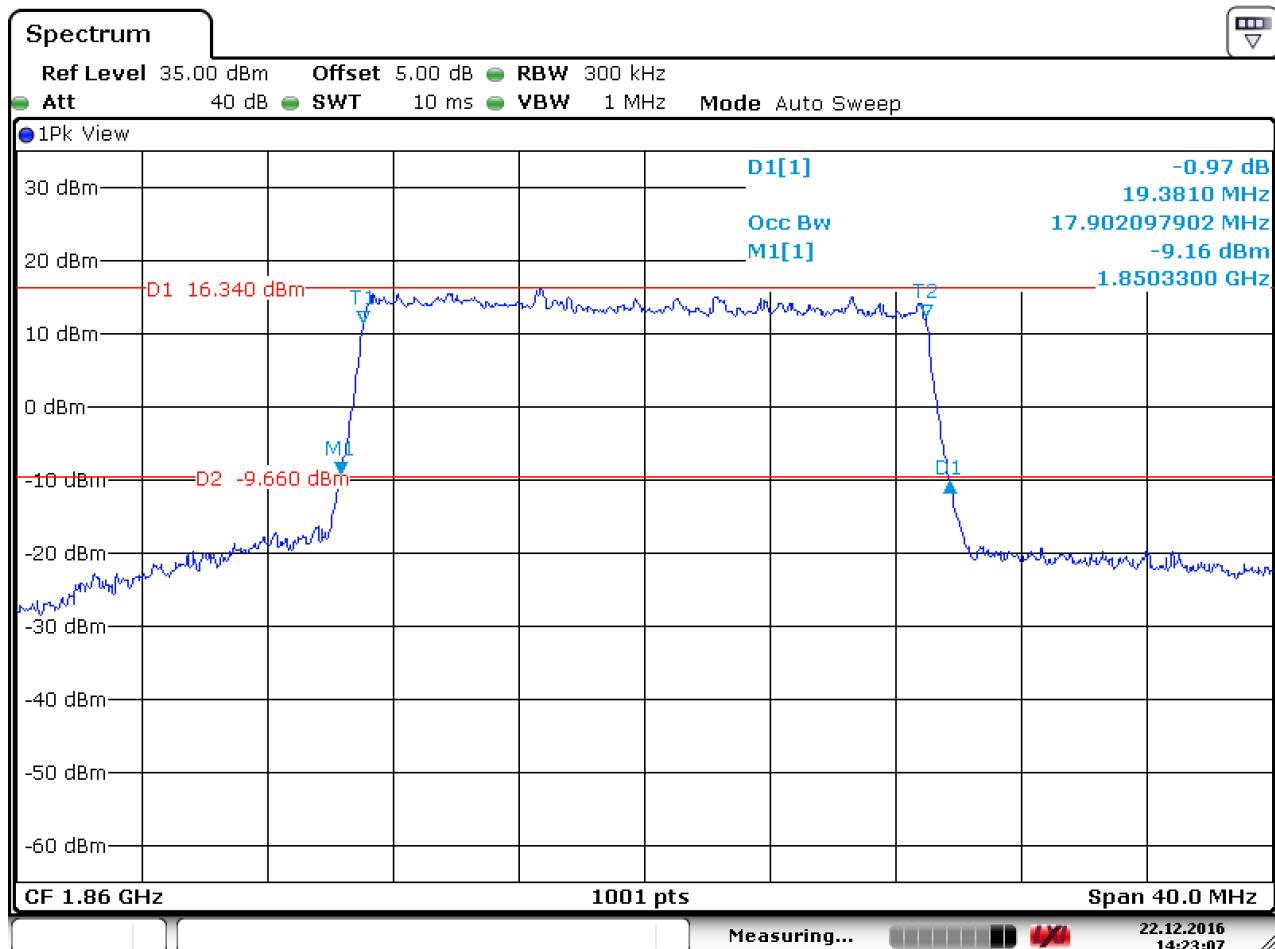
Date: 22.DEC.2016 14:47:14

**4.1.1.10.2 Test Channel = MCH**
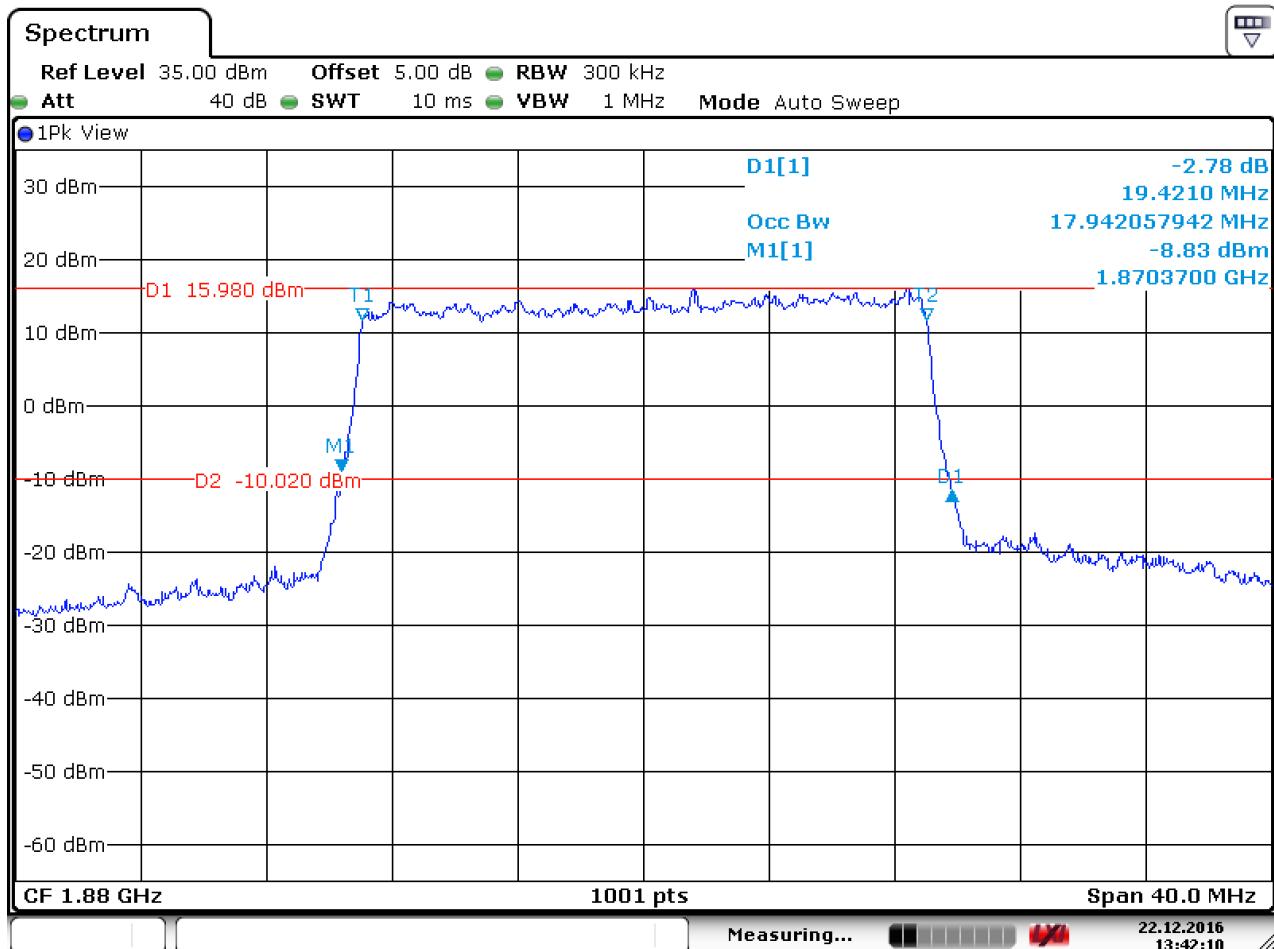

Date: 22.DEC.2016 14:45:57

4.1.1.10.3 Test Channel = HCH

Spectrum		
Ref Level 35.00 dBm	**Offset** 5.00 dB ● **RBW** 300 kHz	
● **Att** 40 dB ● **SWT** 10 ms ● **VBW** 1 MHz	**Mode** Auto Sweep	

● 1Pk View

```
                                          D1[1]              -0.65 dB
30 dBm                                                      14.9550 MHz
                                          Occ Bw      13.546453546 MHz
20 dBm                                    M1[1]              -9.55 dBm
                                                          1.8950370 GHz
    D1 15.970 dBm
10 dBm
 0 dBm
-10 dBm    D2 -10.030 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 1.9025 GHz            1001 pts              Span 30.0 MHz
```

Measuring...   22.12.2016
                                                14:51:06
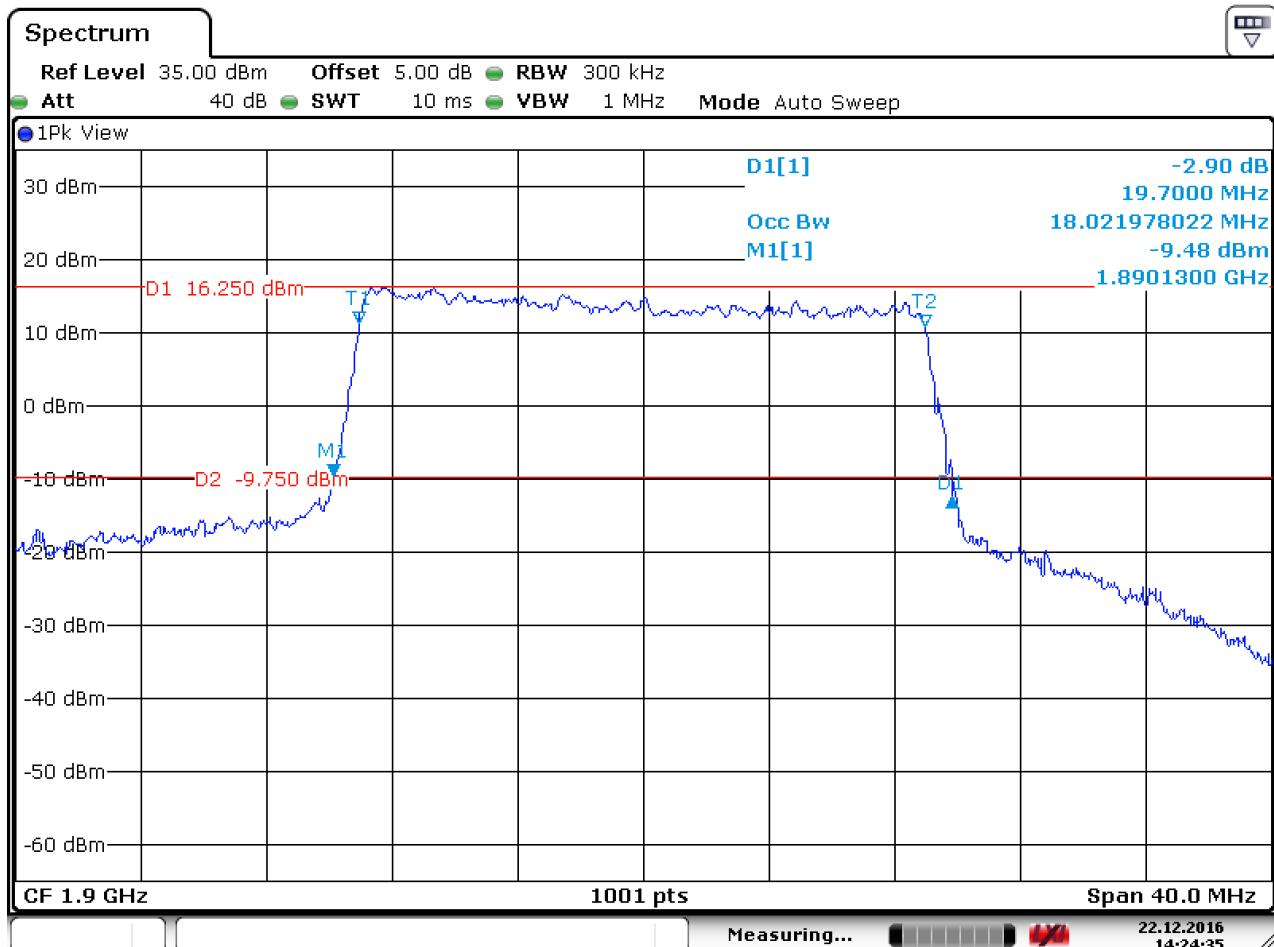
Date: 22.DEC.2016 14:51:06

4.1.1.11 Test Mode = LTE/TM1 20MHz

4.1.1.11.1 Test Channel = LCH

Date: 22.DEC.2016 14:23:07

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

4.1.1.11.2 Test Channel = MCH

Spectrum

Ref Level 35.00 dBm	Offset 5.00 dB	● RBW 300 kHz	
● Att 40 dB	● SWT 10 ms	● VBW 1 MHz	Mode Auto Sweep

● 1Pk View

D1[1]   -2.78 dB
                        19.4210 MHz
Occ Bw   17.942057942 MHz
M1[1]   -8.83 dBm
                       1.8703700 GHz

D1 15.980 dBm

D2 -10.020 dBm

CF 1.88 GHz   1001 pts   Span 40.0 MHz

Measuring...   22.12.2016
                                 13:42:10
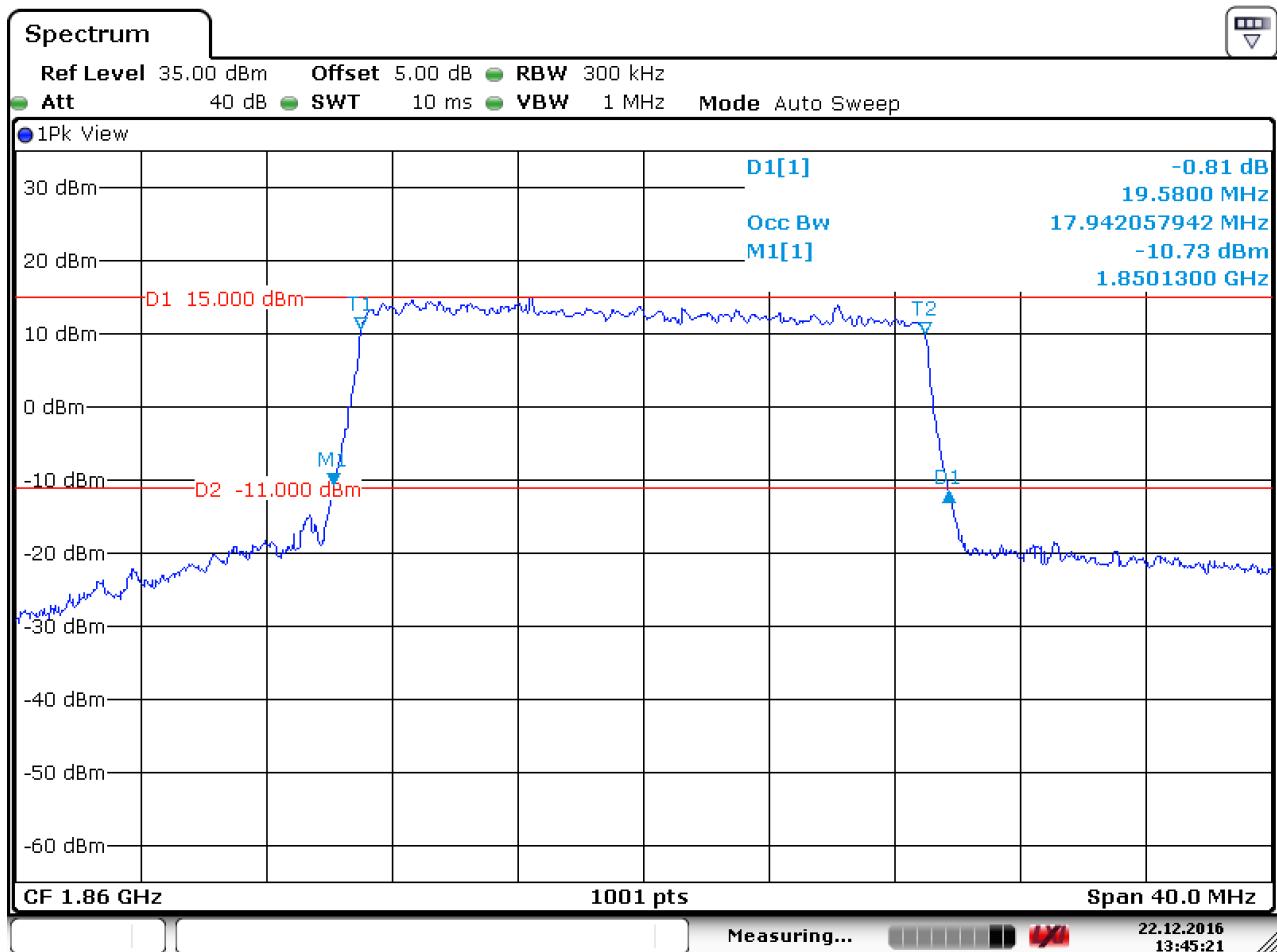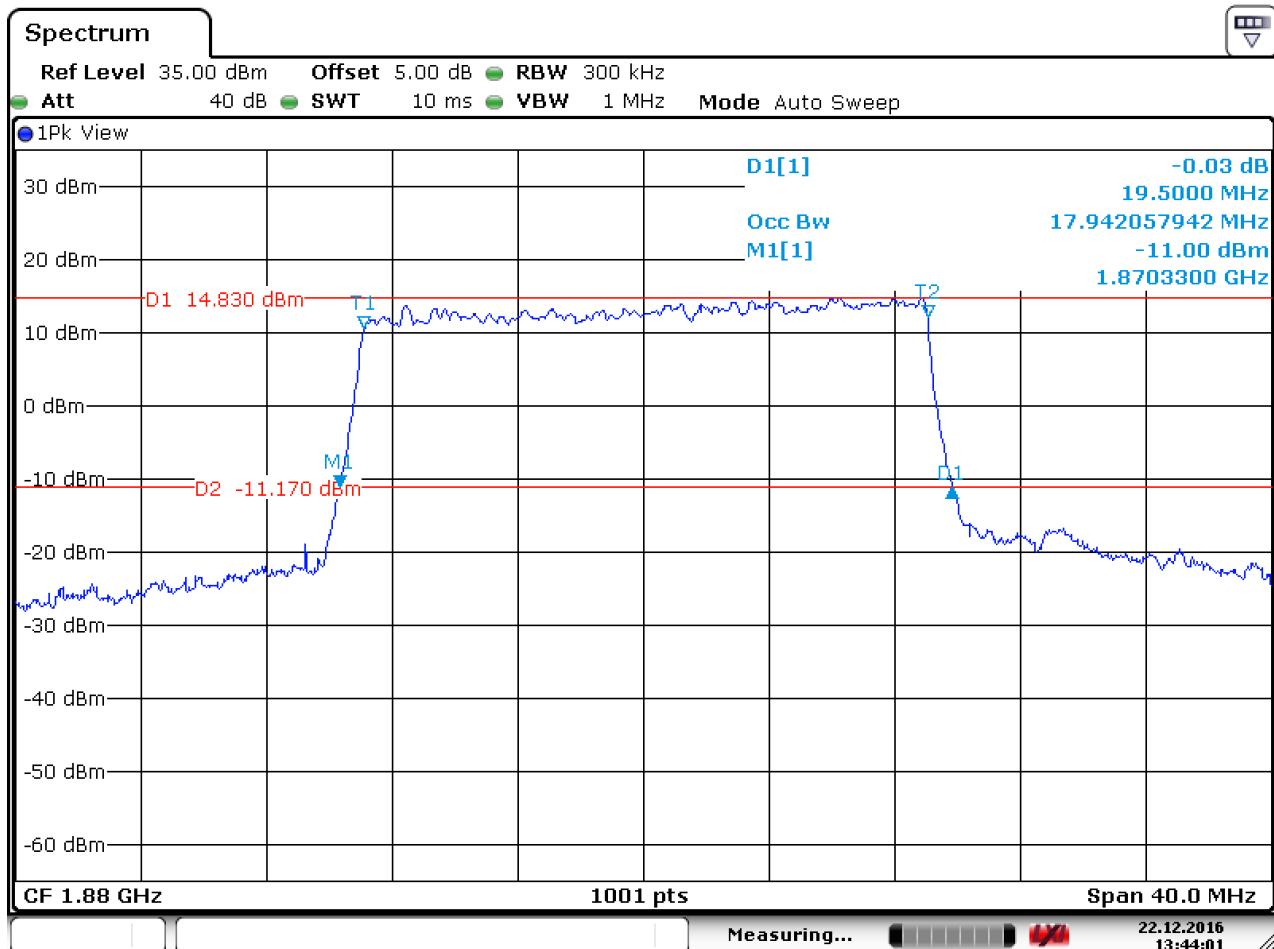
Date: 22.DEC.2016 13:42:10

4.1.1.11.3 Test Channel = HCH

Spectrum

Ref Level 35.00 dBm	Offset 5.00 dB	RBW 300 kHz	
Att 40 dB	SWT 10 ms	VBW 1 MHz	Mode Auto Sweep

1Pk View

D1[1] -2.90 dB
19.7000 MHz
Occ Bw 18.021978022 MHz
M1[1] -9.48 dBm
1.8901300 GHz

D1 16.250 dBm

D2 -9.750 dBm

CF 1.9 GHz   1001 pts   Span 40.0 MHz

Measuring...   22.12.2016 14:24:35
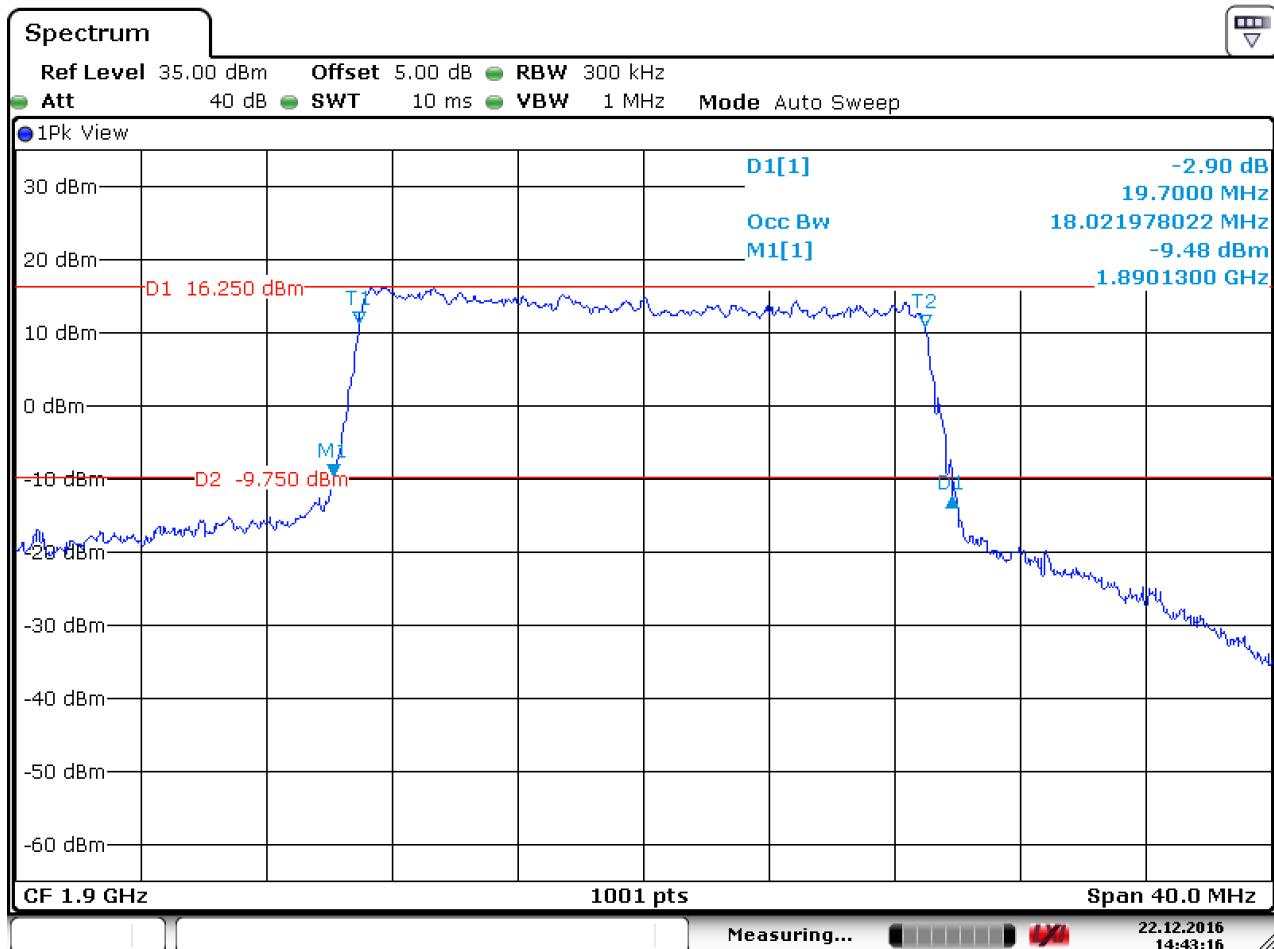
Date: 22.DEC.2016 14:24:35

4.1.1.12 Test Mode = LTE/TM2 20MHz

4.1.1.12.1 Test Channel = LCH

Date: 22.DEC.2016 13:45:21

4.1.1.12.2 Test Channel = MCH

Date: 22.DEC.2016 13:44:02

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Shenzhen Branch**

4.1.1.12.3 Test Channel = HCH

Date: 22.DEC.2016 14:43:17

5   Band Edges Compliance

Part I –
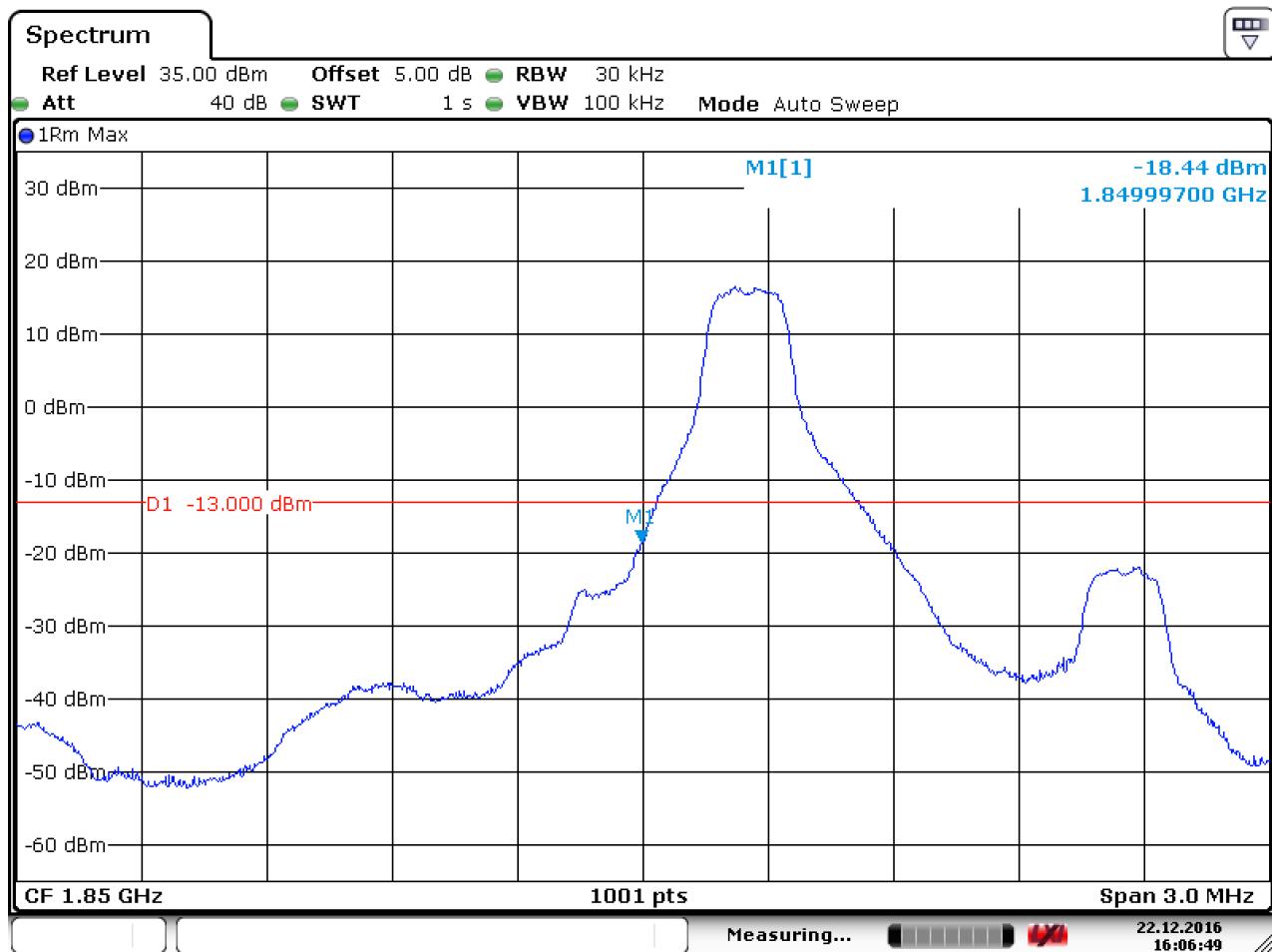
5.1 For LTE

5.1.1 Test Band = LTE band2

5.1.1.1   Test Mode = LTE/TM1 1.4MHz
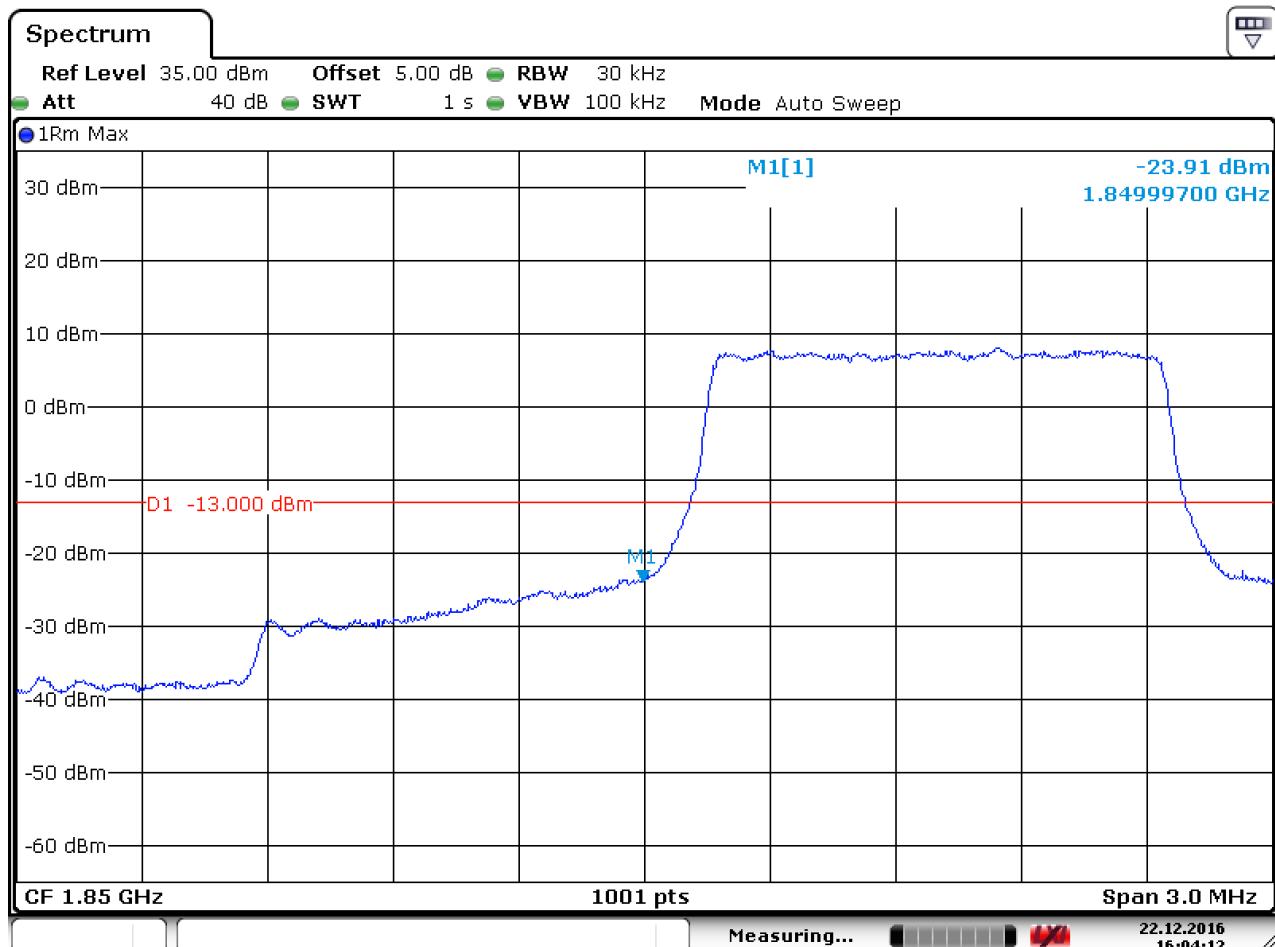
5.1.1.1.1   Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB
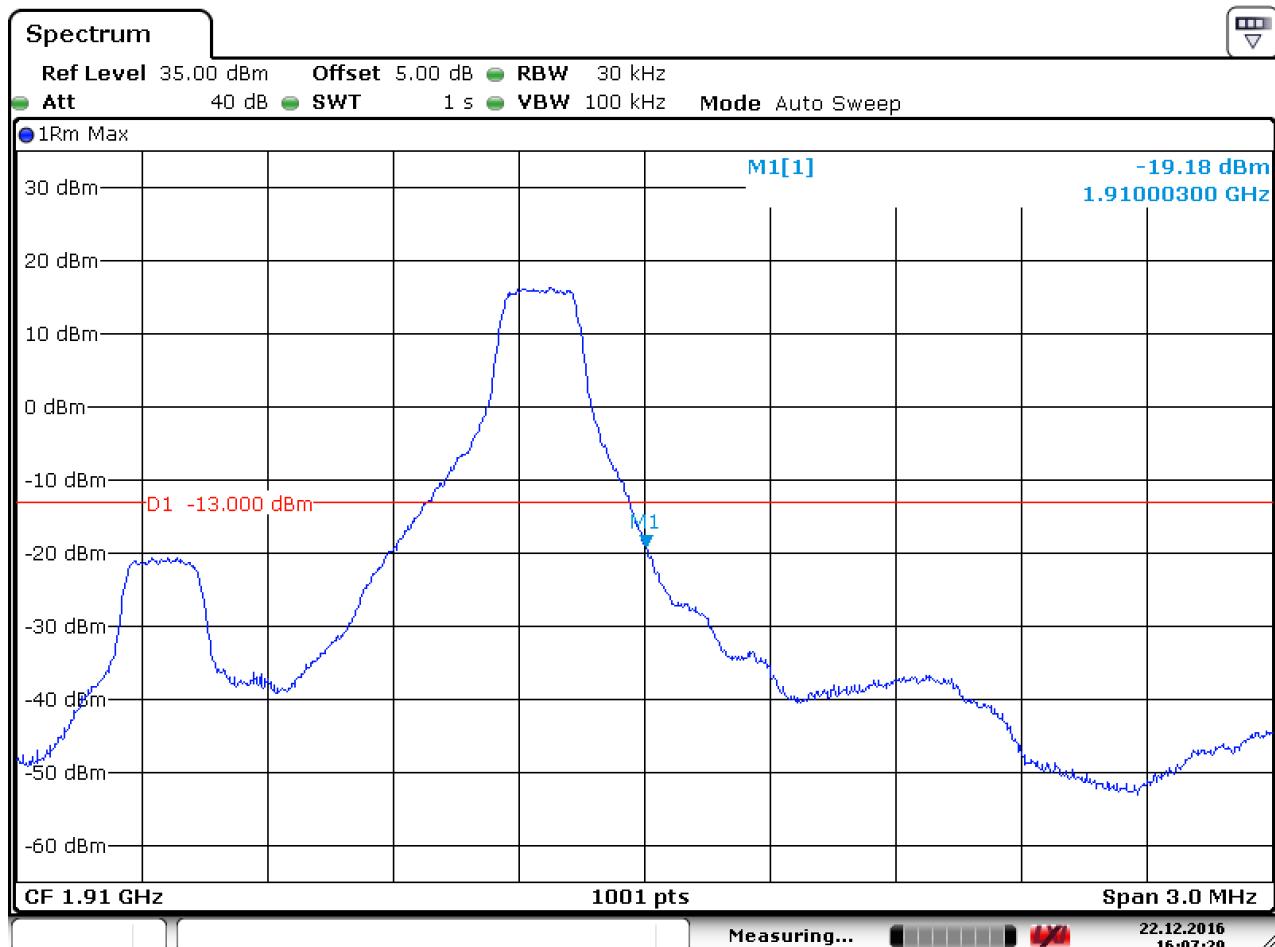
Date: 22.DEC.2016 16:06:49

5.1.1.1.1.2 Test RB=6RB

Date: 22.DEC.2016 16:04:13

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
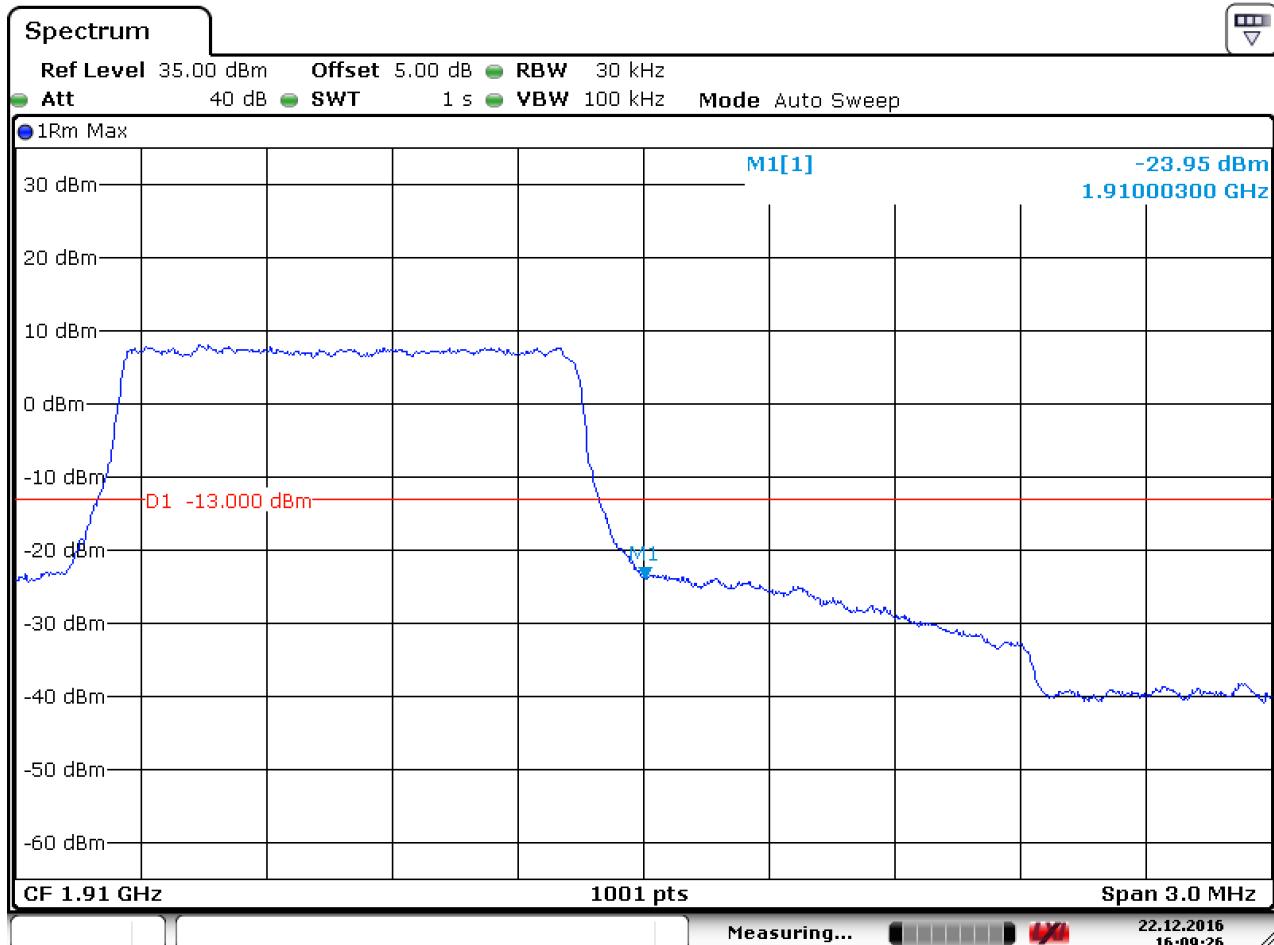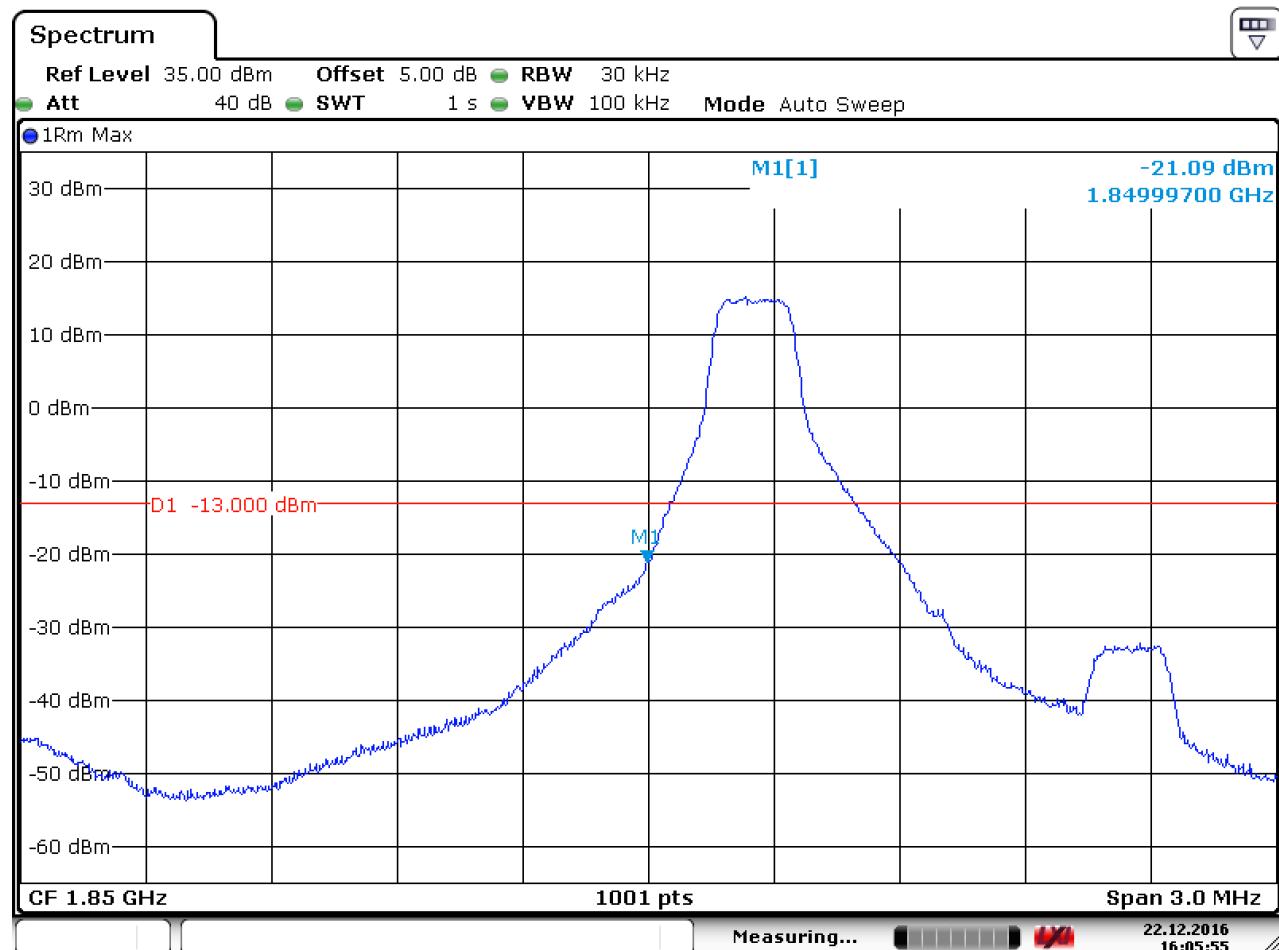
5.1.1.1.2   Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB

Date: 22.DEC.2016 16:07:30

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
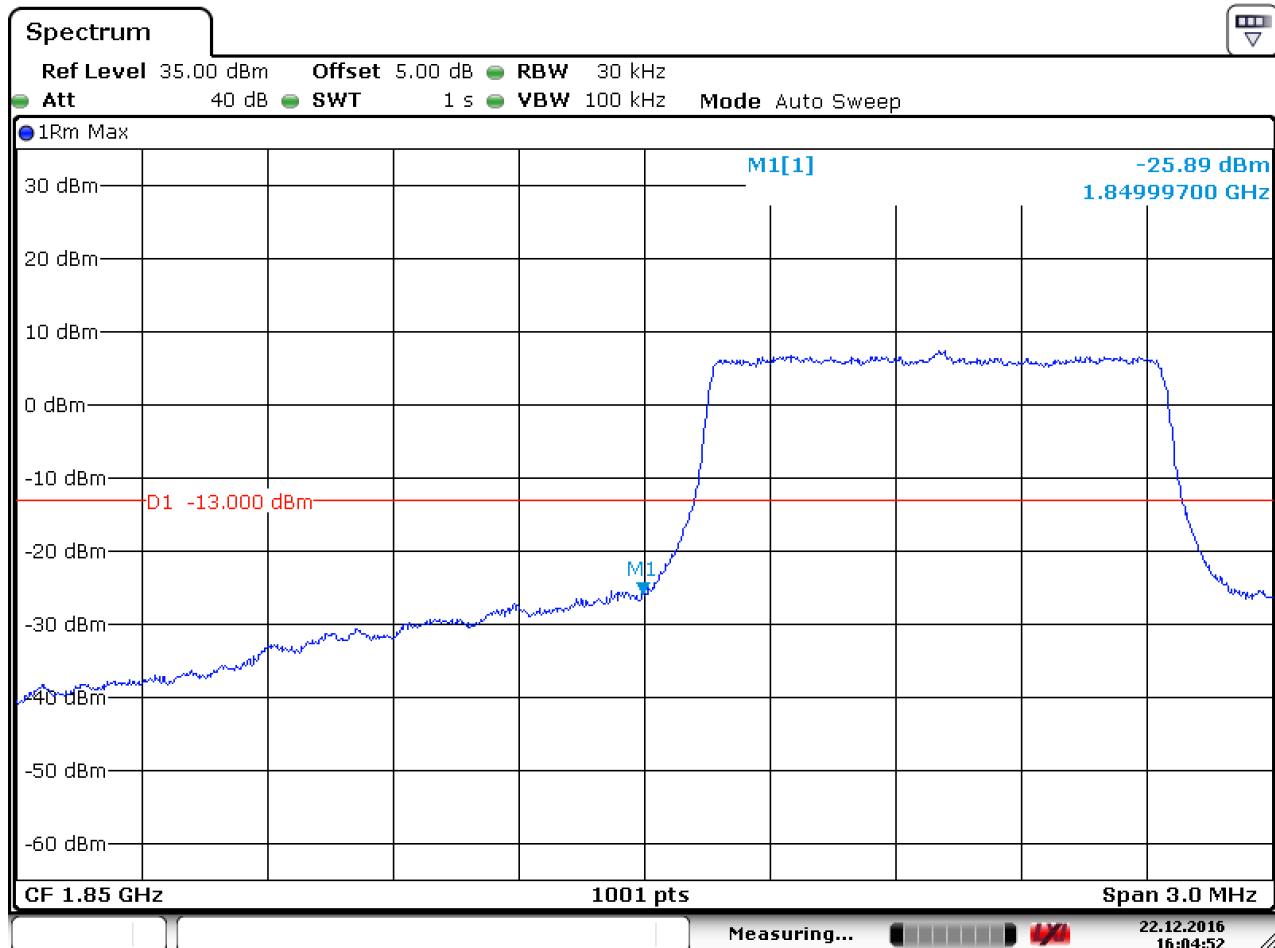
5.1.1.1.2.2 Test RB=6RB

Date: 22.DEC.2016 16:09:26
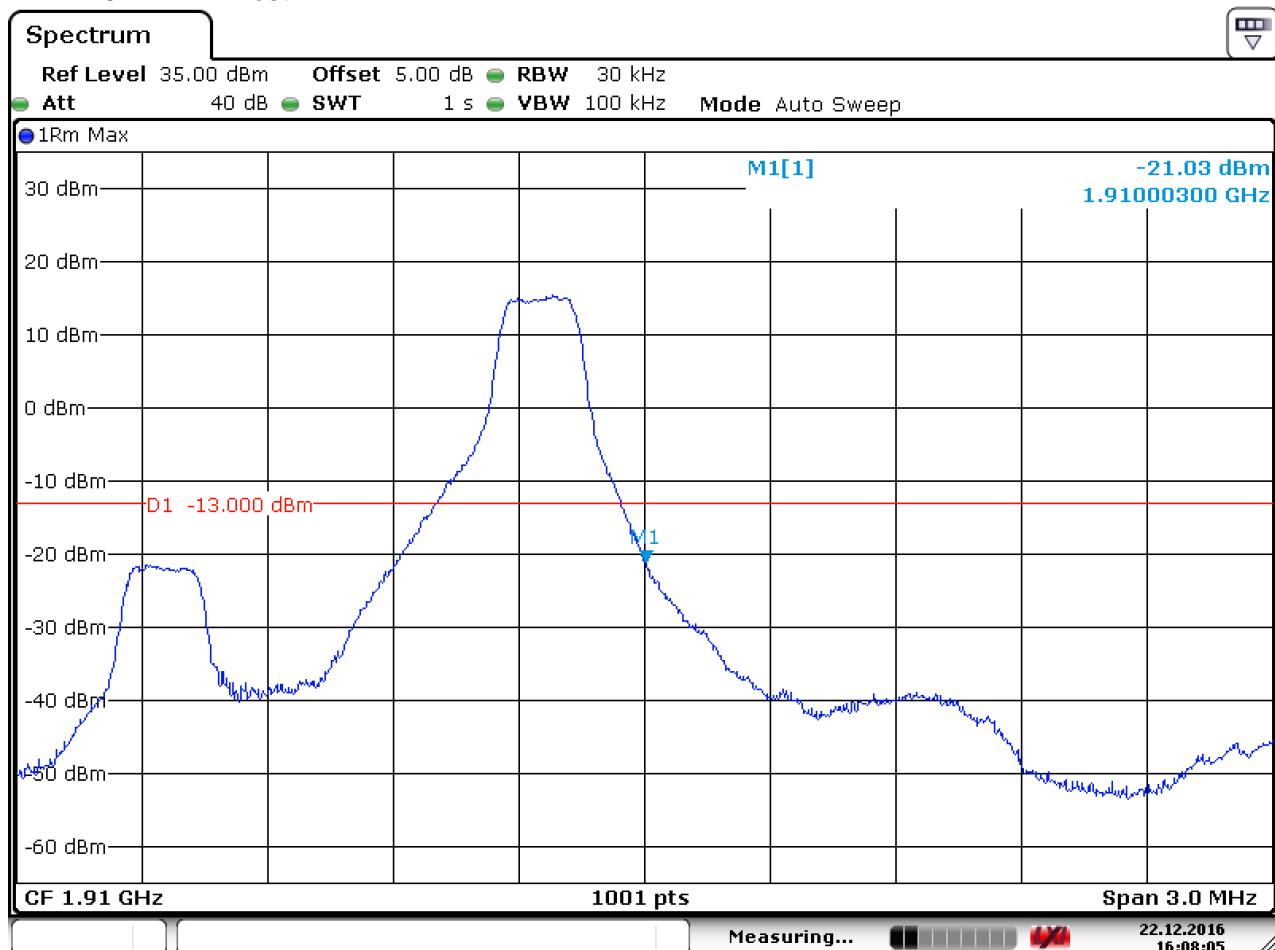
**5.1.1.2   Test Mode = LTE/TM2 1.4MHz**

5.1.1.2.1   Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB

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

5.1.1.2.1.2 Test RB=6RB
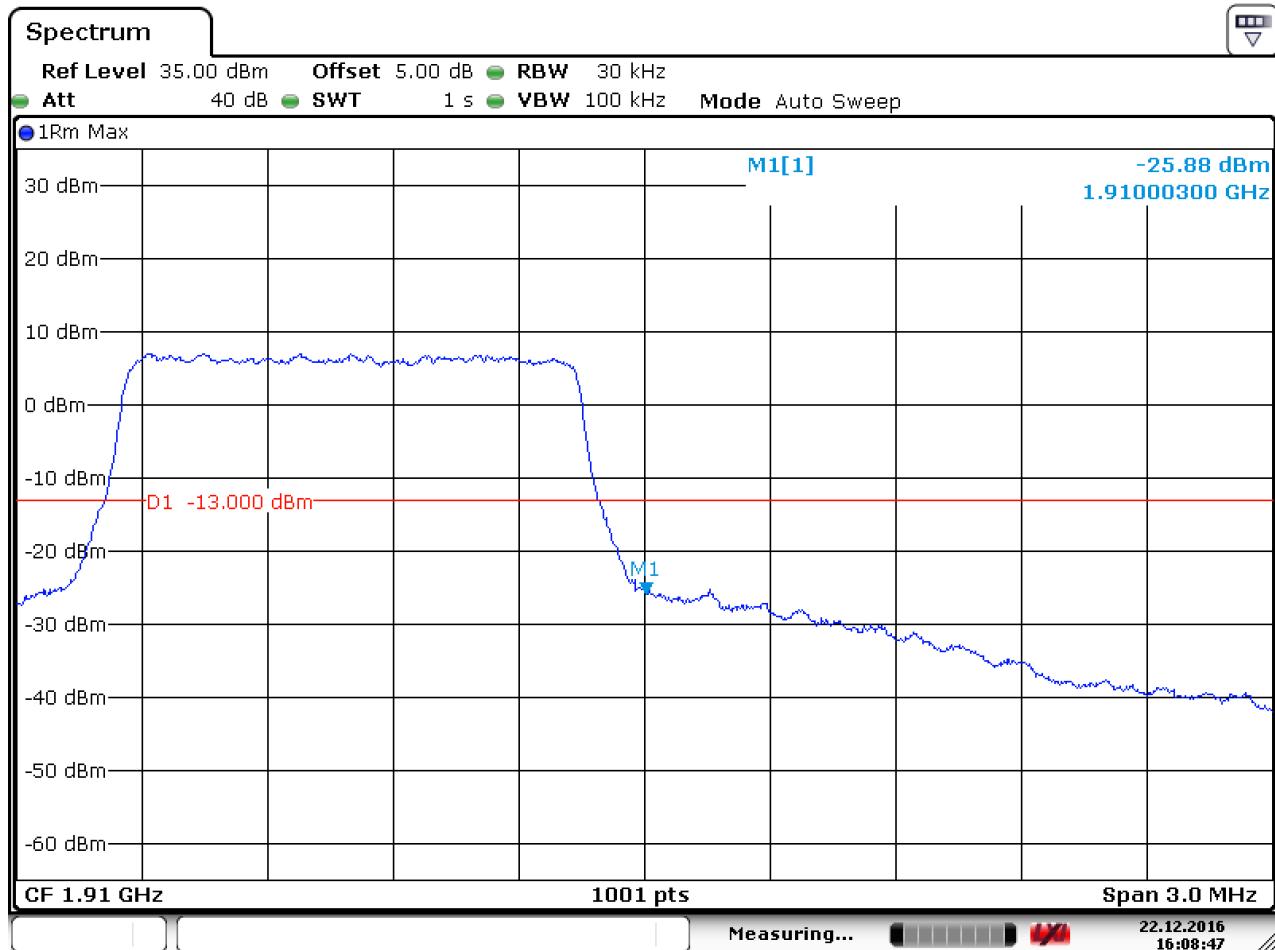

Date: 22.DEC.2016 16:04:53
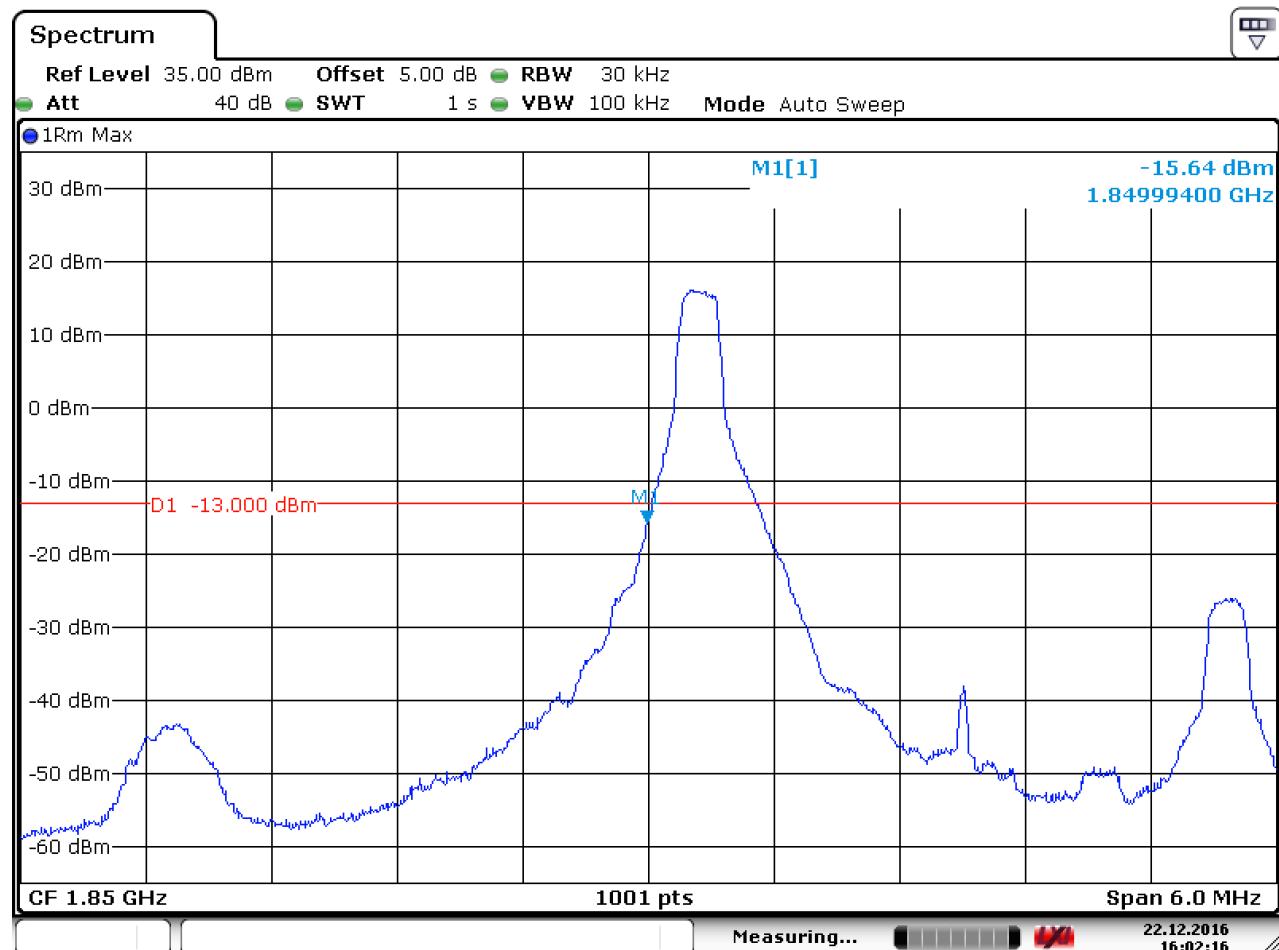
5.1.1.2.2   Test Channel = HCH

#### 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
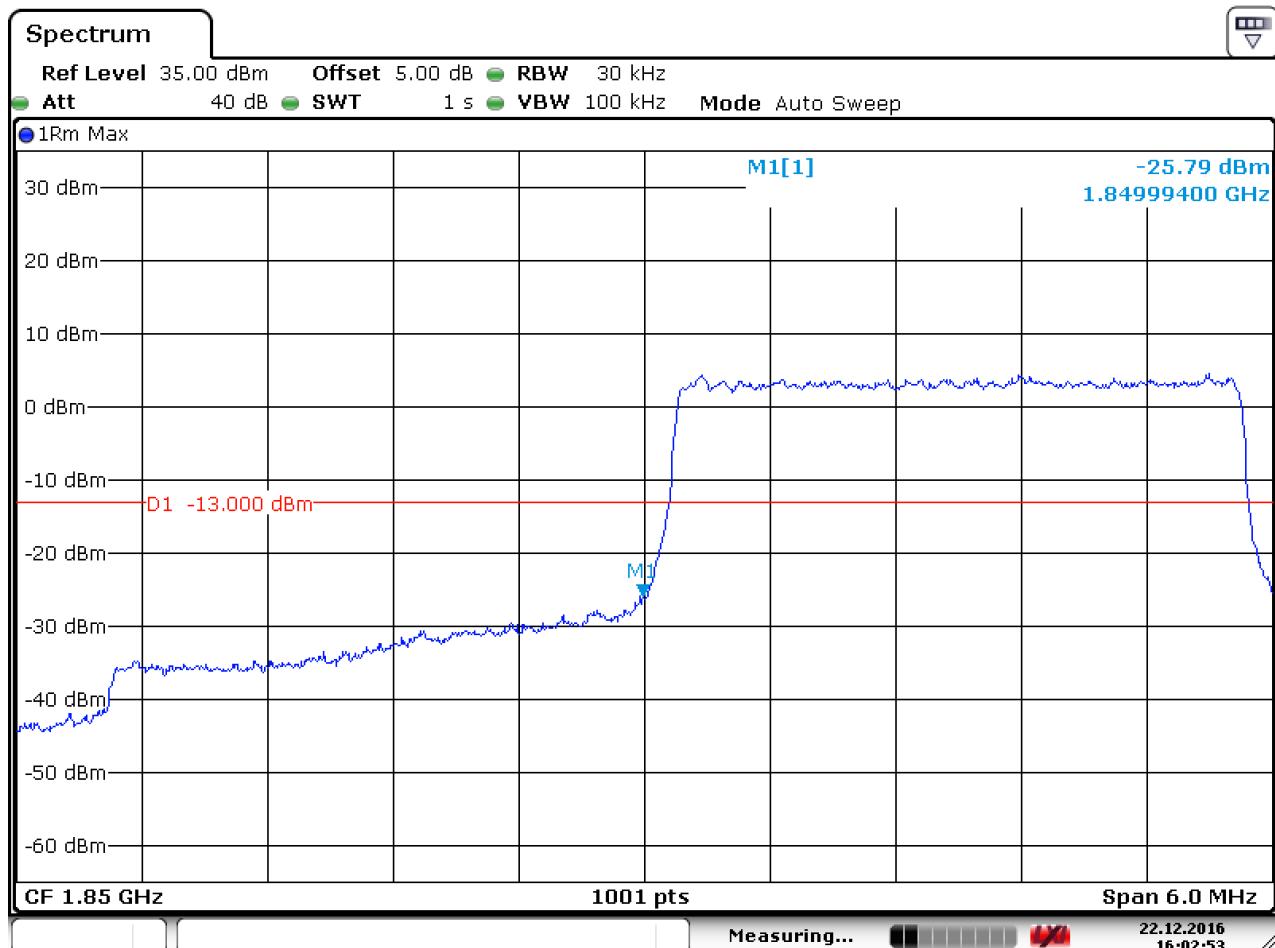
Date: 22.DEC.2016 16:08:48
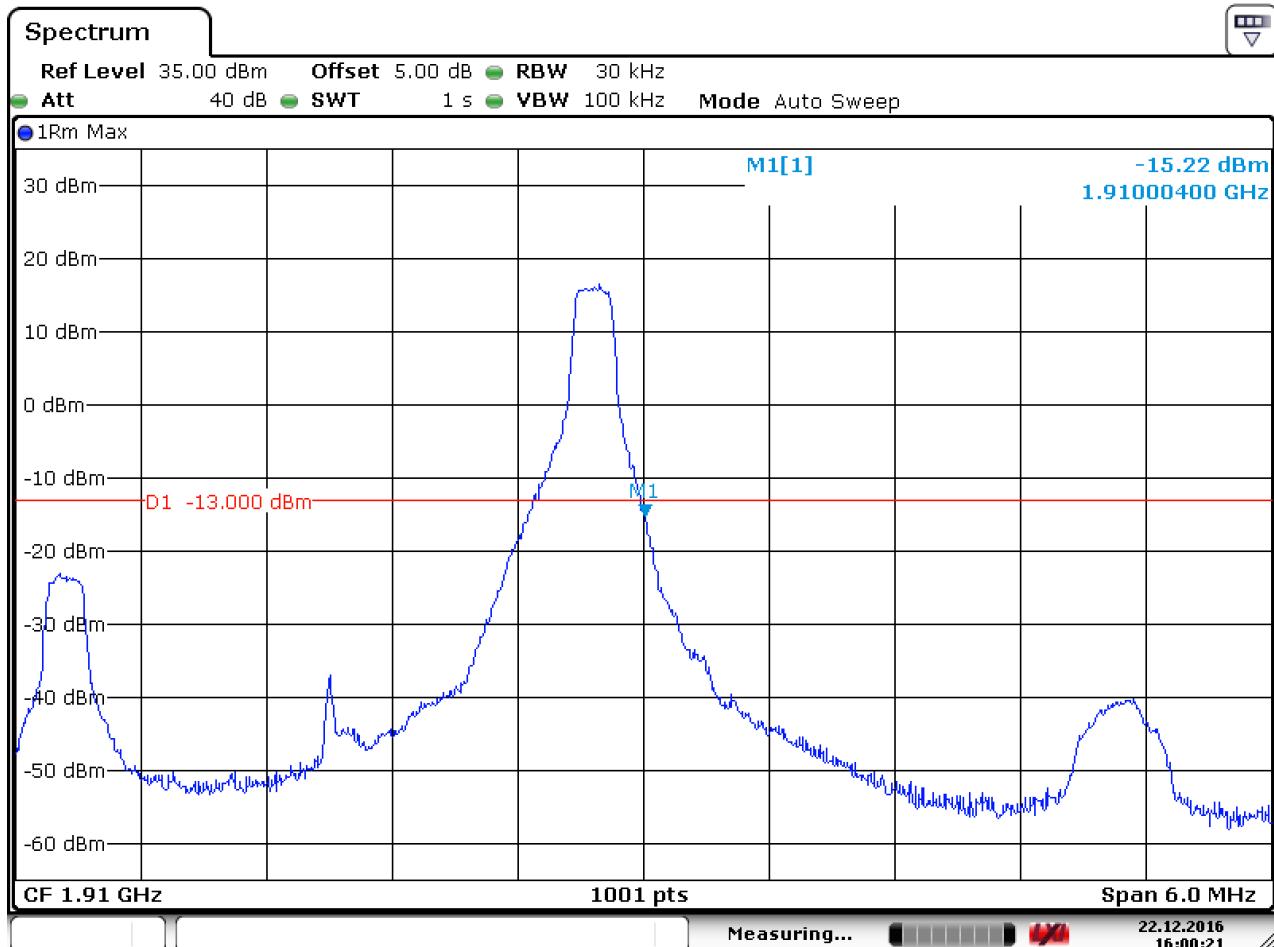
5.1.1.3   Test Mode = LTE/TM1 3MHz

5.1.1.3.1   Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB


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

5.1.1.3.1.2 Test RB=15RB

Spectrum						
Ref Level	35.00 dBm	Offset	5.00 dB	RBW	30 kHz	
Att	40 dB	SWT	1 s	VBW	100 kHz	Mode Auto Sweep

1Rm Max

M1[1]   -25.79 dBm
              1.84999400 GHz

D1 -13.000 dBm

M1

CF 1.85 GHz   1001 pts   Span 6.0 MHz

Measuring...   22.12.2016 16:02:53
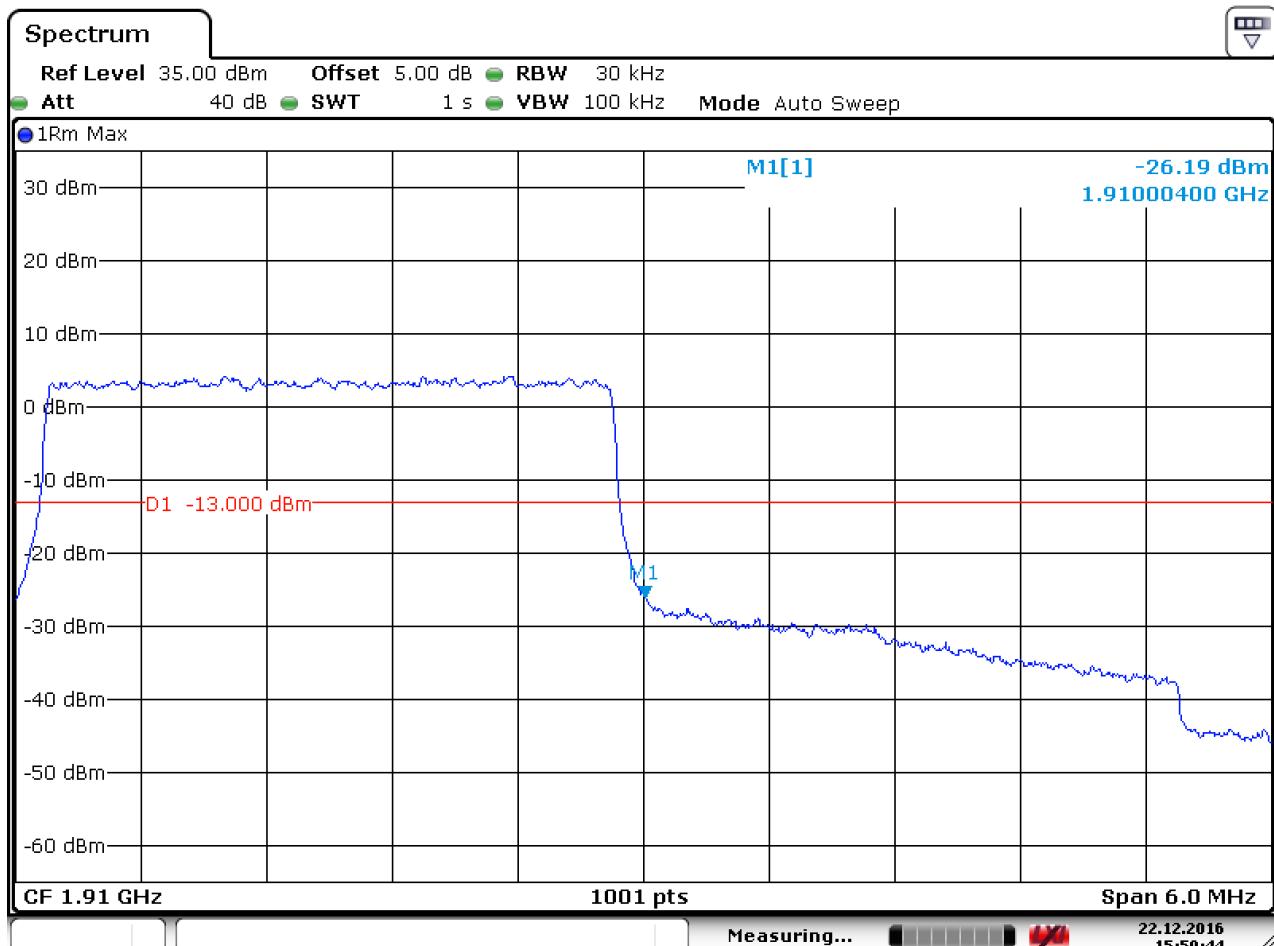
Date: 22.DEC.2016 16:02:53
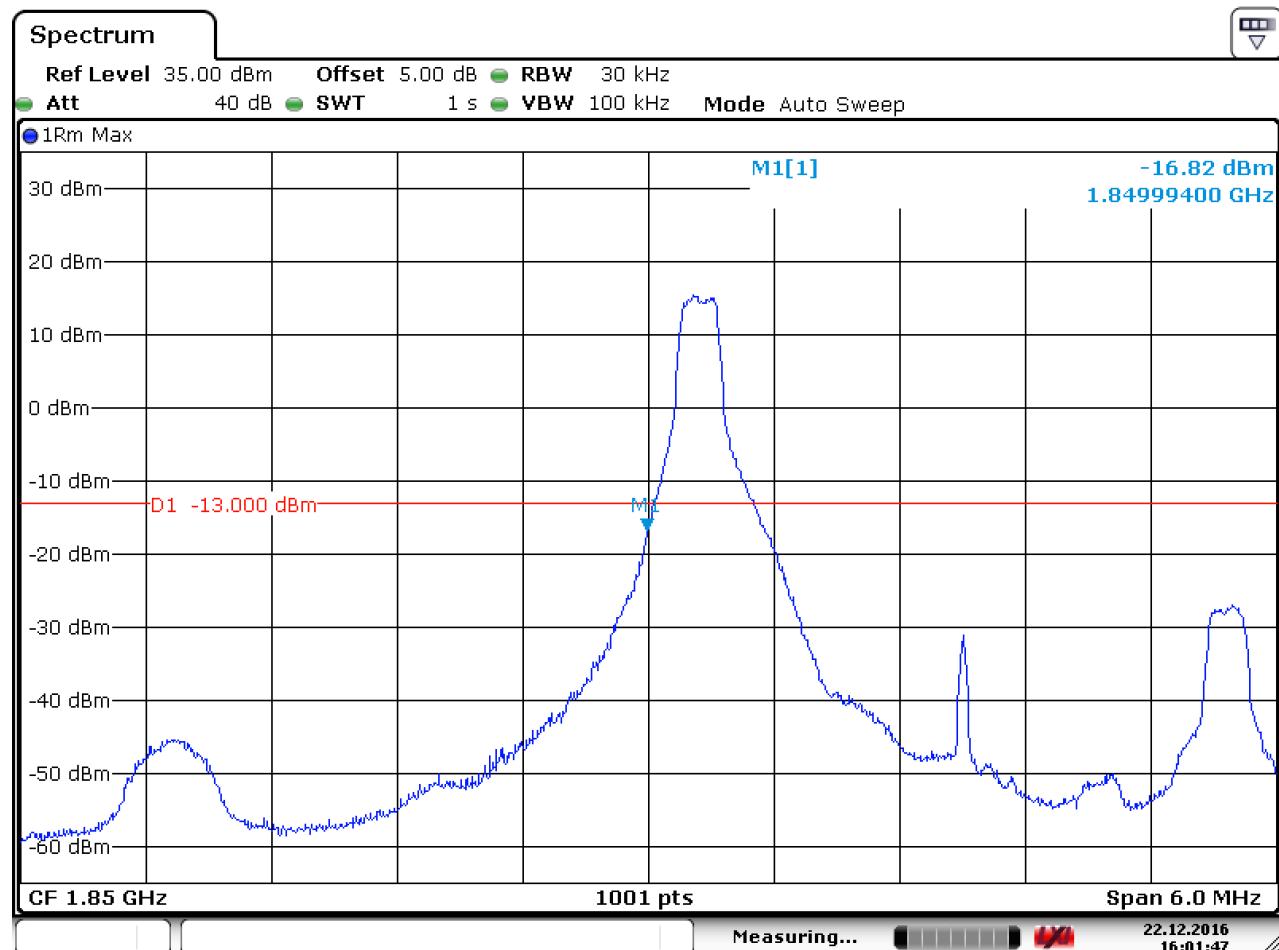
5.1.1.3.2   Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB

Date: 22.DEC.2016 16:00:21

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
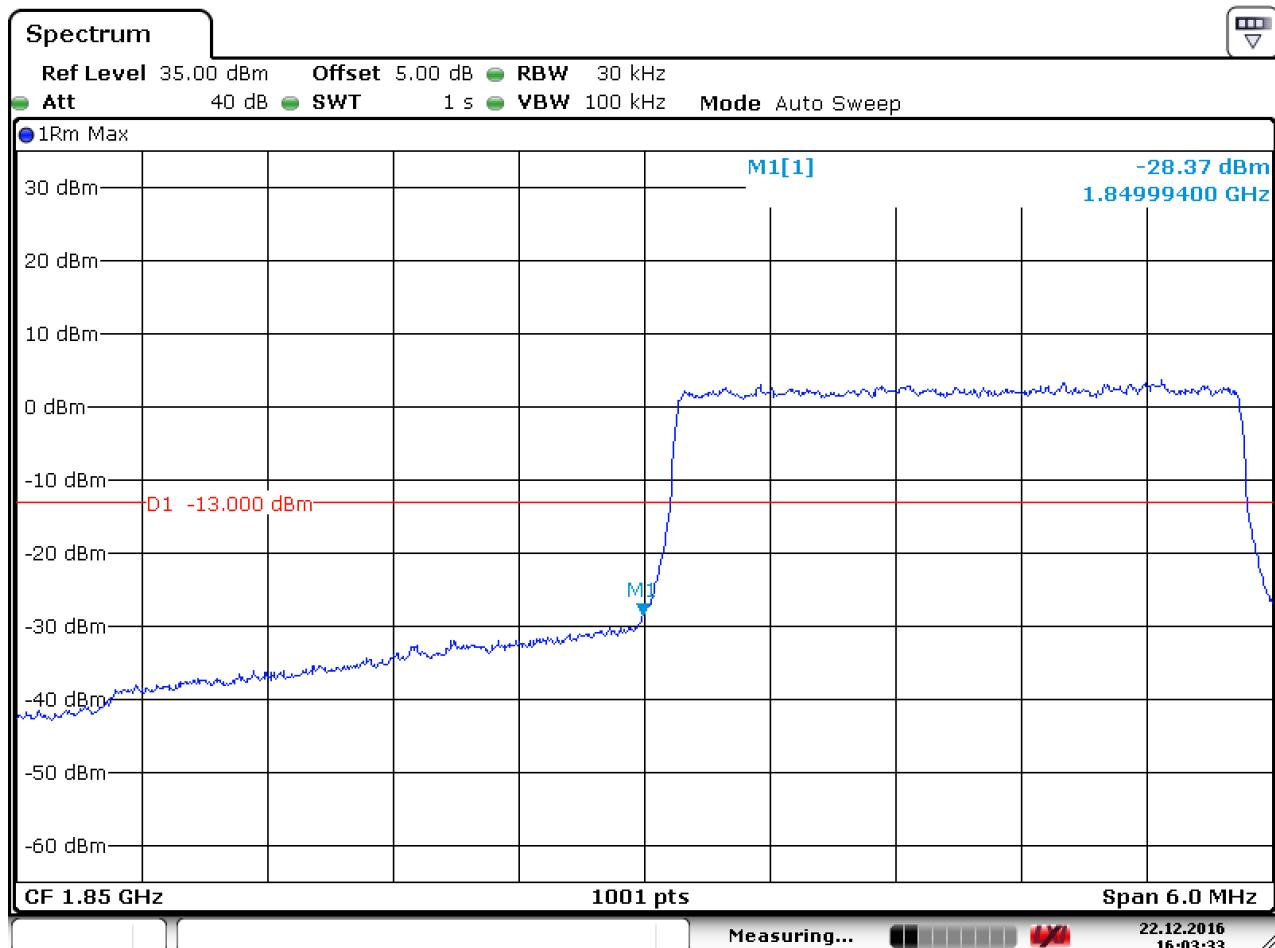
**5.1.1.3.2.2 Test RB=15RB**

Date: 22.DEC.2016 15:59:45
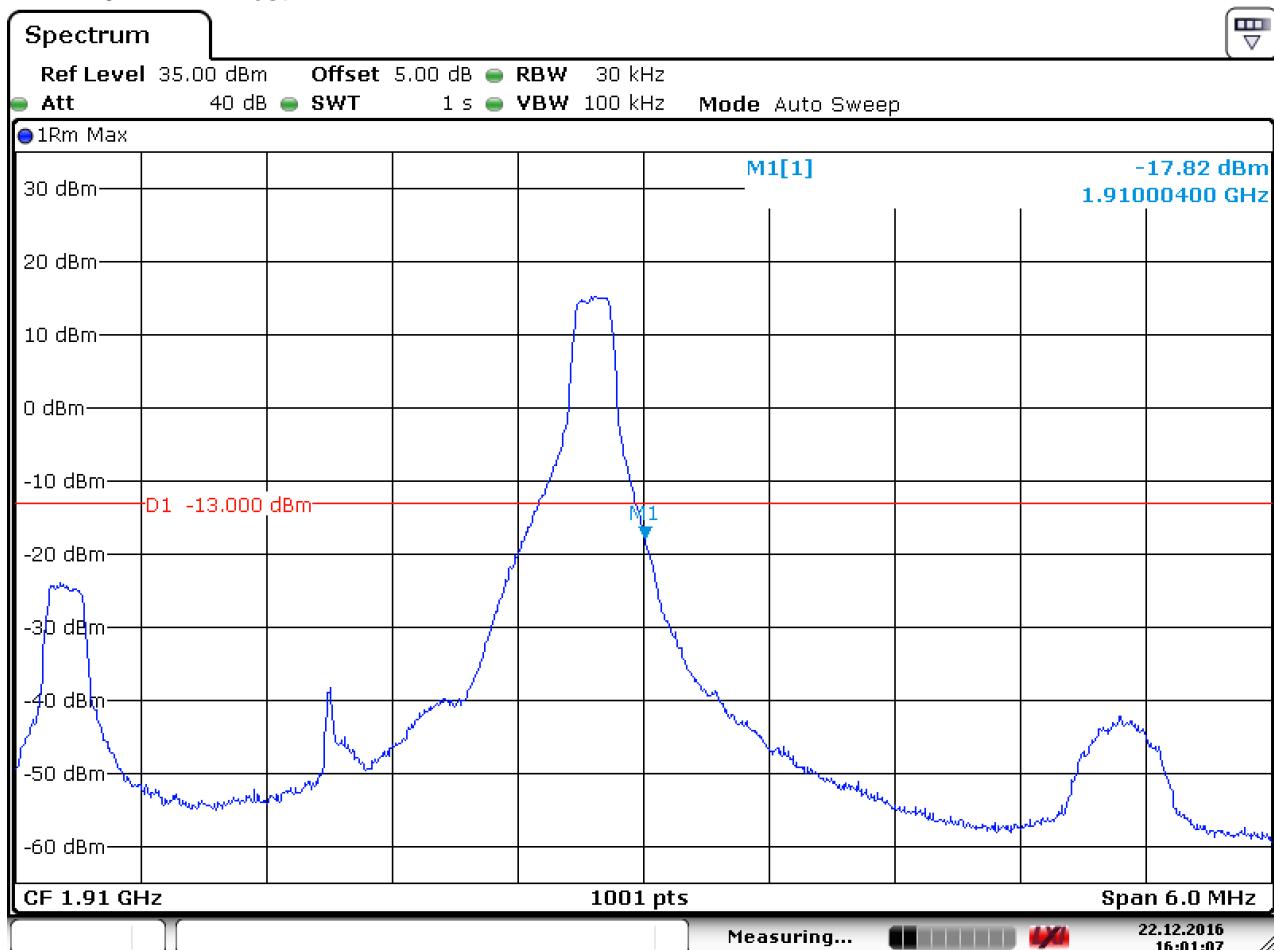
5.1.1.4   Test Mode = LTE/TM2 3MHz

5.1.1.4.1   Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB


Date: 22.DEC.2016 16:01:47

5.1.1.4.1.2 Test RB=15RB

Spectrum		
Ref Level 35.00 dBm	Offset 5.00 dB ● RBW 30 kHz	
● Att 40 dB ● SWT 1 s ● VBW 100 kHz	Mode Auto Sweep	

●1Rm Max

M1[1]   -28.37 dBm
                                   1.84999400 GHz

D1 -13.000 dBm

M1

| CF 1.85 GHz | 1001 pts | Span 6.0 MHz |

Measuring...   22.12.2016 16:03:33
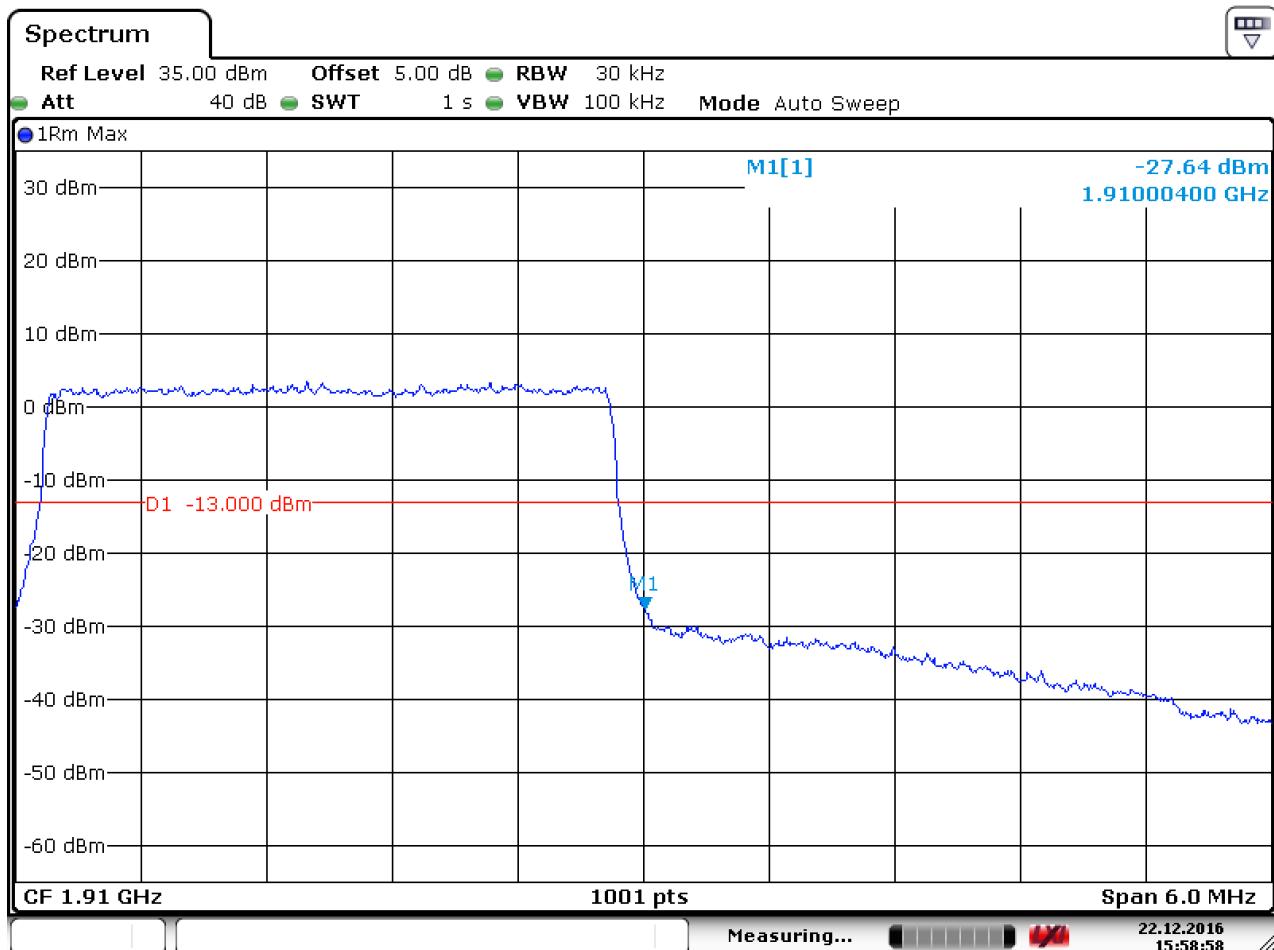
Date: 22.DEC.2016 16:03:33
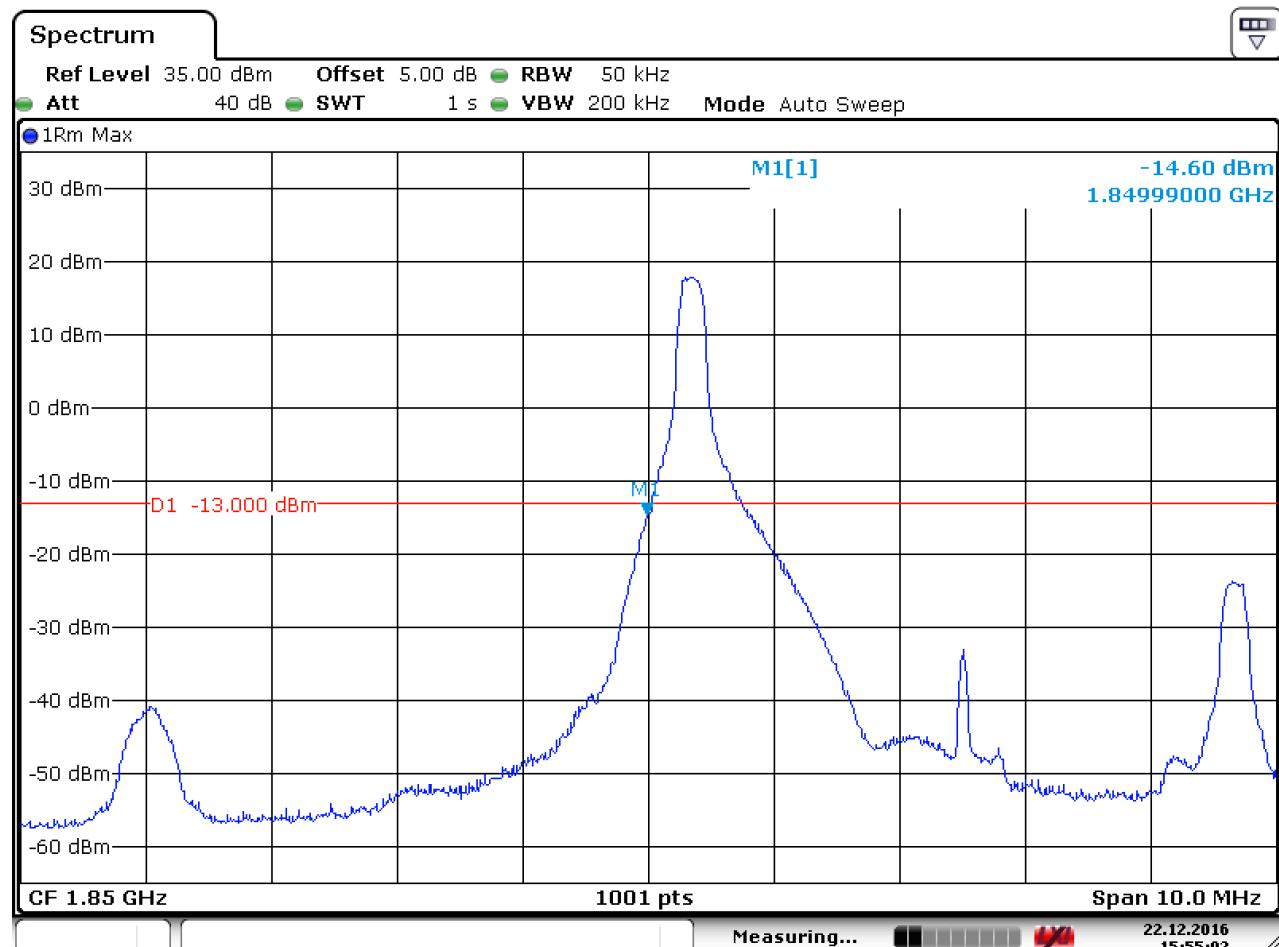
5.1.1.4.2 Test Channel = HCH

#### 5.1.1.4.2.1 Test RB=1RB

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

5.1.1.4.3 Test RB=15RB
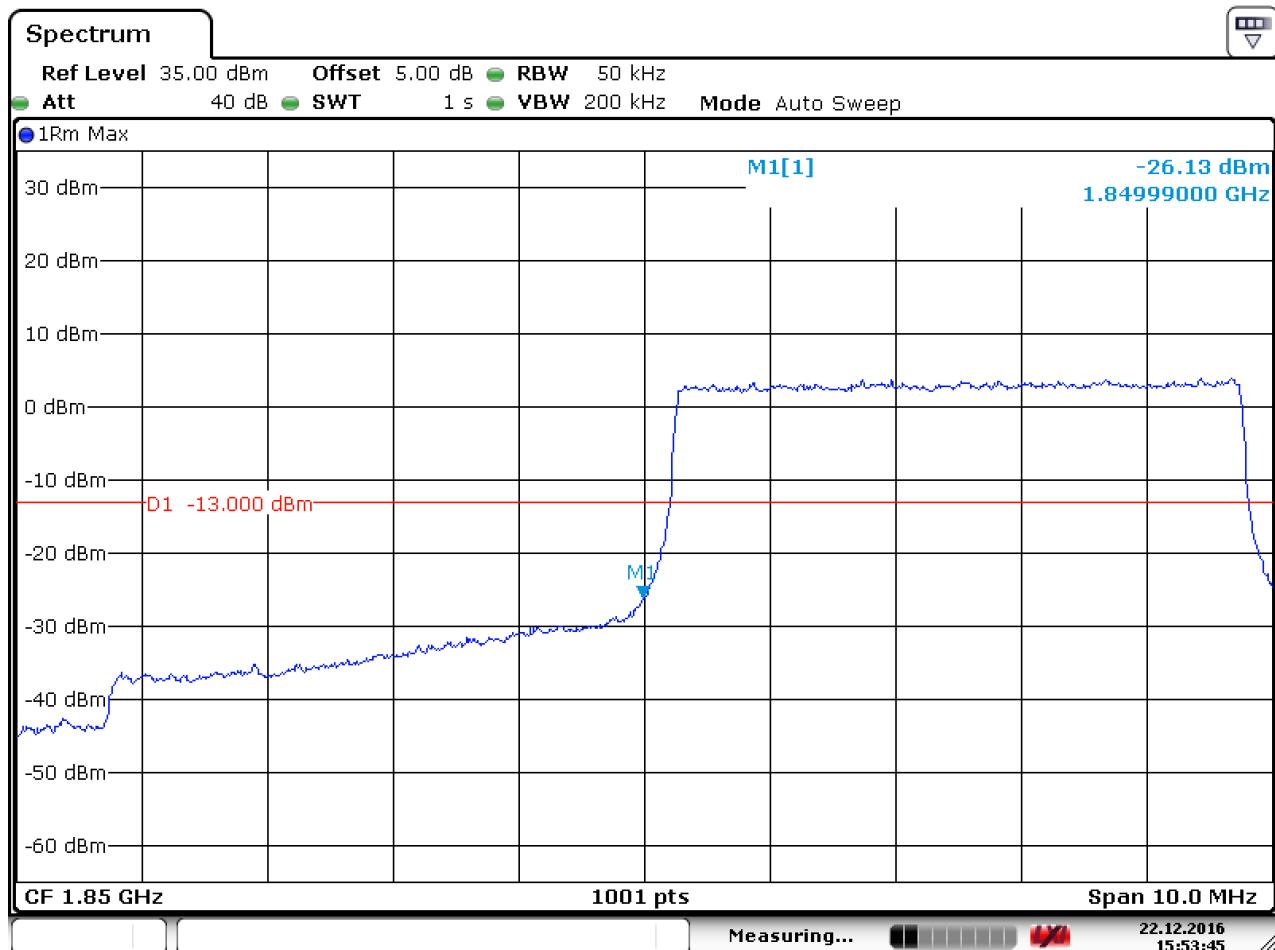
Date: 22.DEC.2016 15:58:59
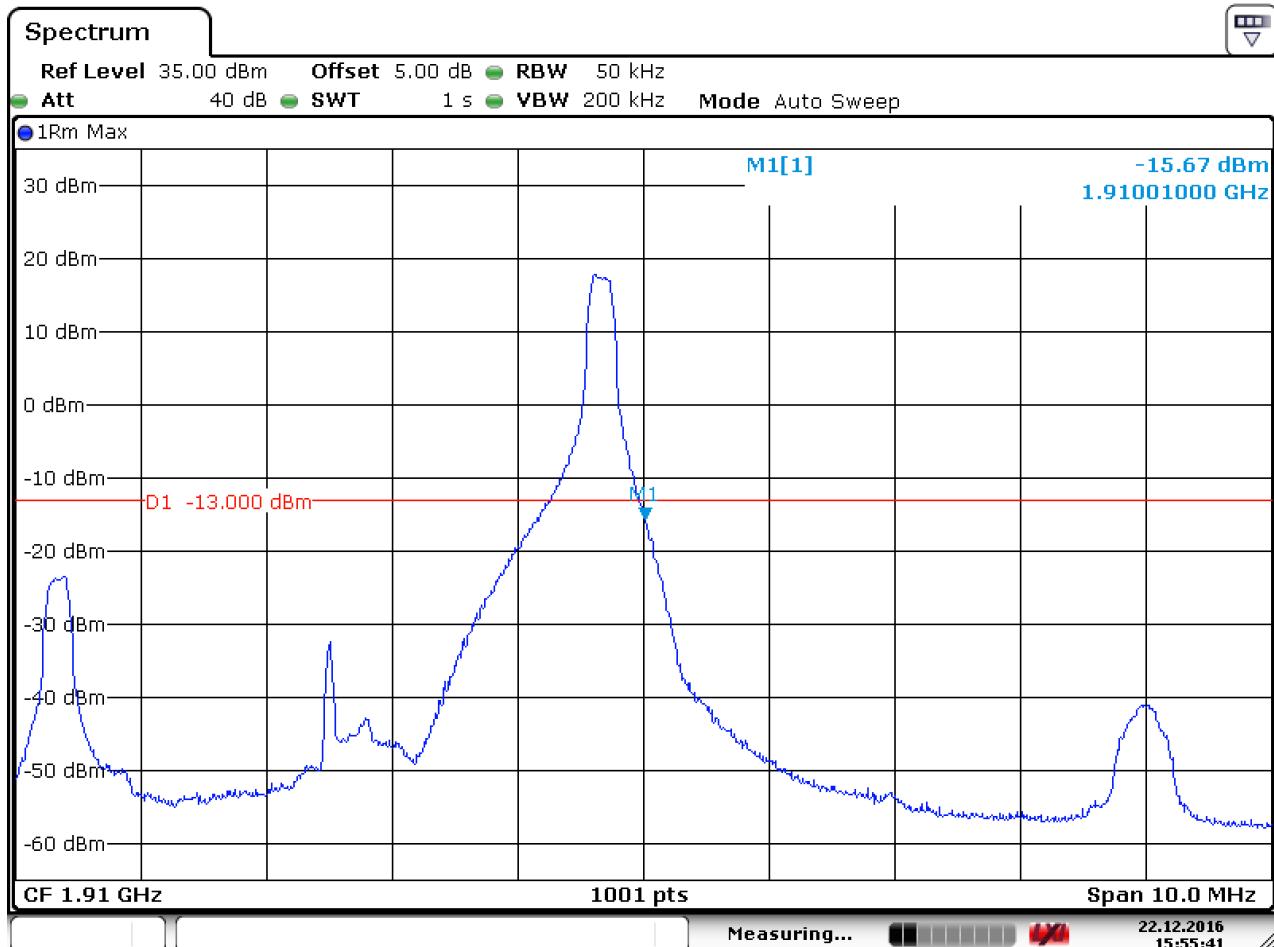
### 5.1.1.5   Test Mode = LTE/TM1 5MHz

5.1.1.5.1   Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB

Date: 22.DEC.2016 15:55:02

5.1.1.5.1.2 Test RB=25RB

Spectrum				
Ref Level 35.00 dBm	Offset 5.00 dB	● RBW 50 kHz		
● Att 40 dB	● SWT 1 s	● VBW 200 kHz	Mode Auto Sweep	

1Rm Max

M1[1]   -26.13 dBm
1.84999000 GHz

30 dBm

20 dBm

10 dBm

0 dBm

-10 dBm

D1 -13.000 dBm

-20 dBm

M1

-30 dBm

-40 dBm

-50 dBm

-60 dBm

CF 1.85 GHz   1001 pts   Span 10.0 MHz

Measuring...   22.12.2016 15:53:45

Date: 22.DEC.2016 15:53:45

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
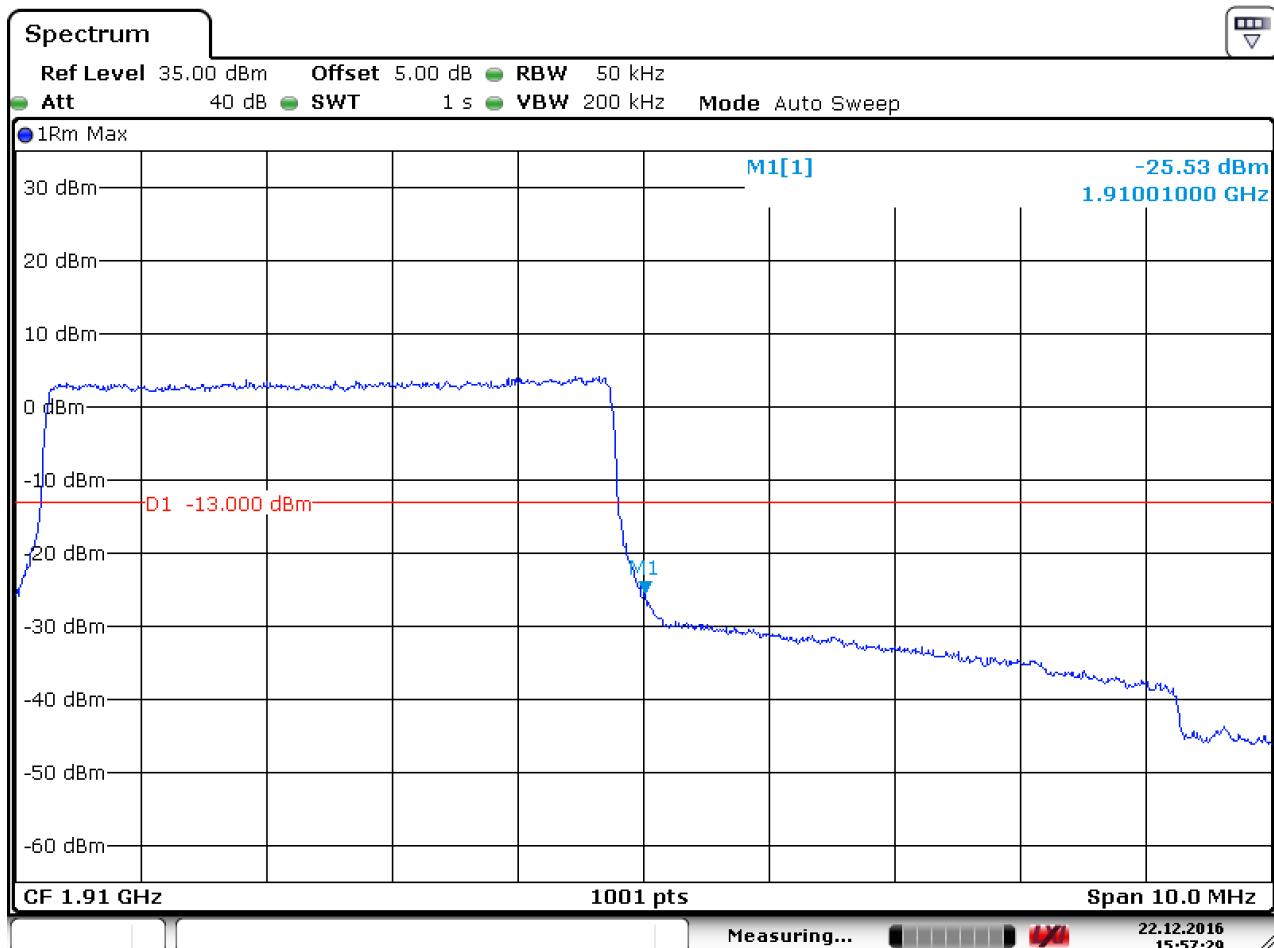
5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB

Date: 22.DEC.2016 15:55:42

5.1.1.5.2.2 Test RB=25RB

Spectrum				
Ref Level 35.00 dBm	Offset 5.00 dB	RBW	50 kHz	
Att 40 dB	SWT 1 s	VBW	200 kHz	Mode Auto Sweep

1Rm Max

M1[1]   -25.53 dBm
1.91001000 GHz

D1 -13.000 dBm

M1

CF 1.91 GHz   1001 pts   Span 10.0 MHz

Measuring...   22.12.2016 15:57:29
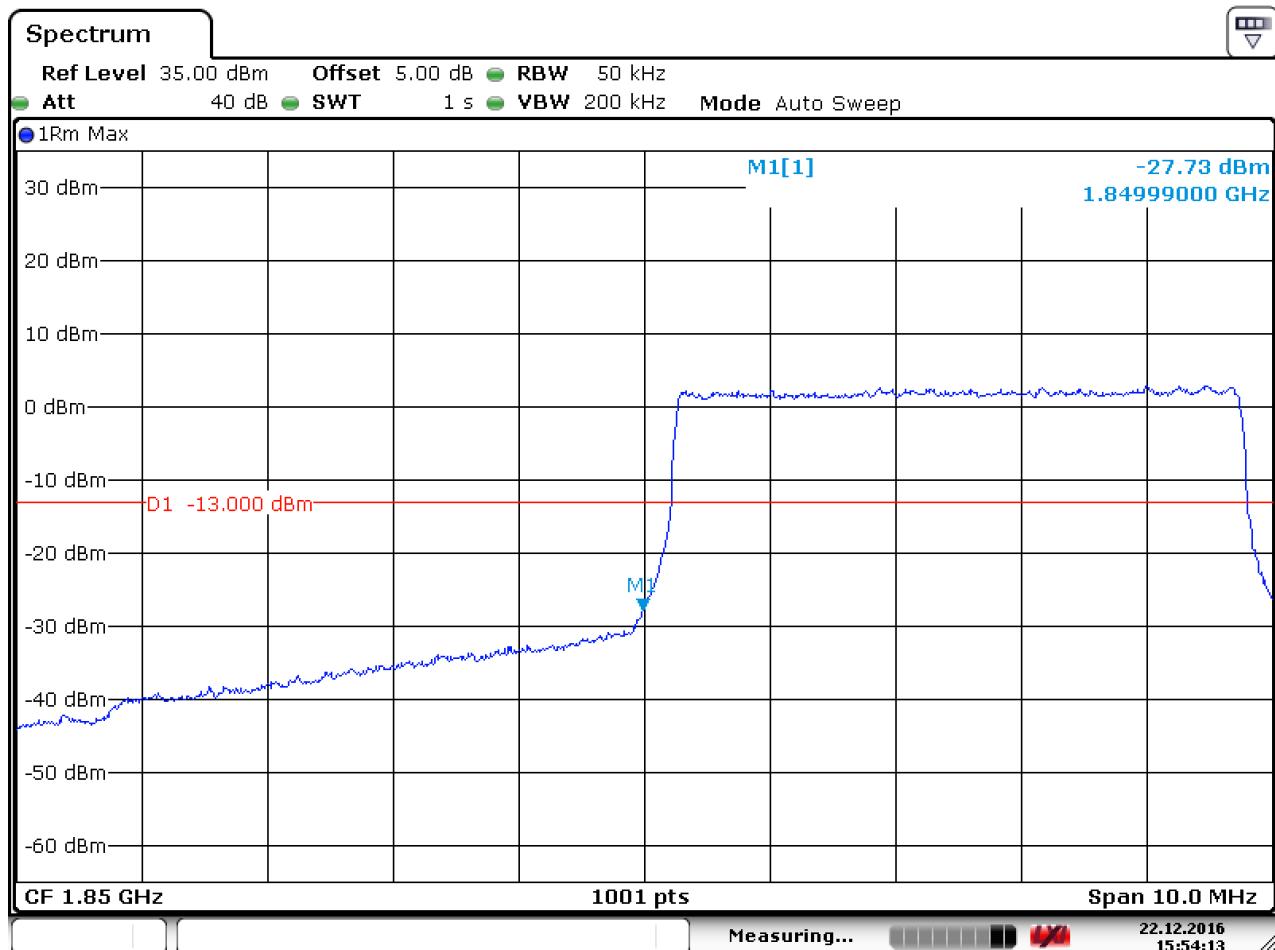
Date: 22.DEC.2016 15:57:29

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: 22.DEC.2016 15:54:38

### 5.1.1.6.1.2 Test RB=25RB
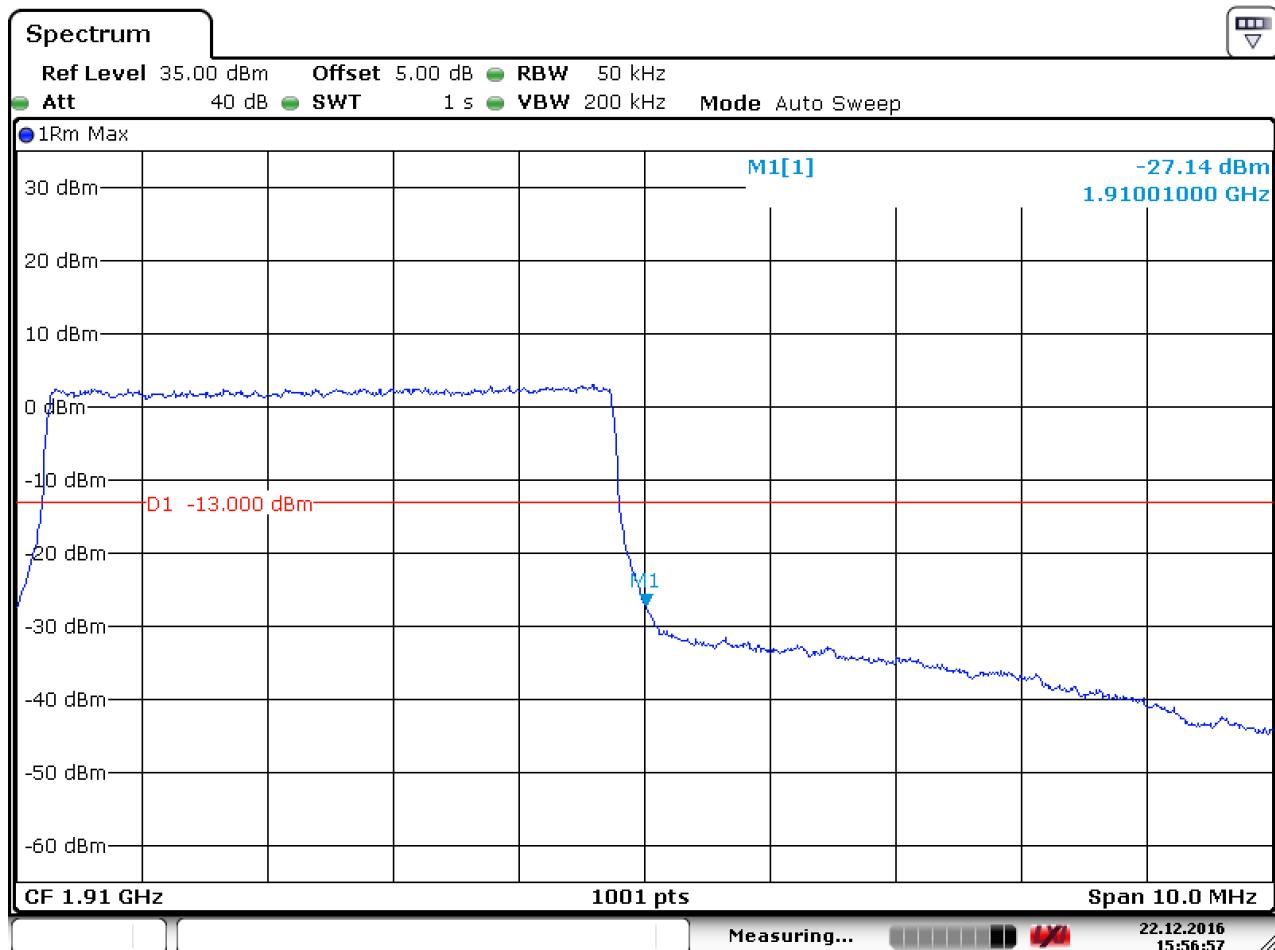
Date: 22.DEC.2016 15:54:13
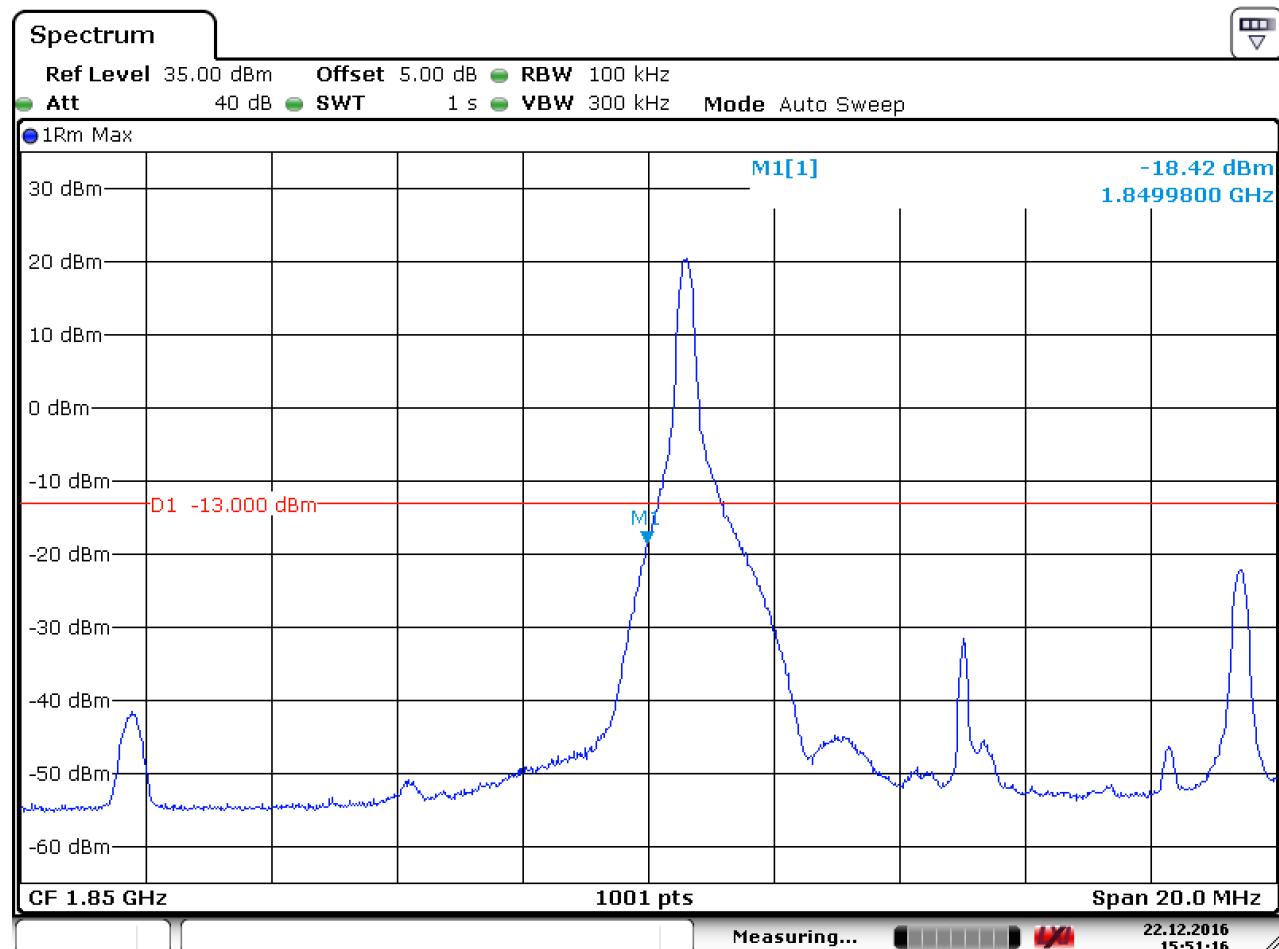
5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB


Date: 22.DEC.2016 15:56:09

5.1.1.6.2.2 Test RB=25RB

Spectrum					
Ref Level 35.00 dBm	Offset 5.00 dB	RBW 50 kHz			
Att 40 dB	SWT 1 s	VBW 200 kHz	Mode Auto Sweep		

1Rm Max

M1[1] −27.14 dBm
1.91001000 GHz

30 dBm

20 dBm

10 dBm

0 dBm

−10 dBm

D1 −13.000 dBm

−20 dBm

−30 dBm M1

−40 dBm

−50 dBm

−60 dBm

CF 1.91 GHz   1001 pts   Span 10.0 MHz

Measuring...   22.12.2016 15:56:57
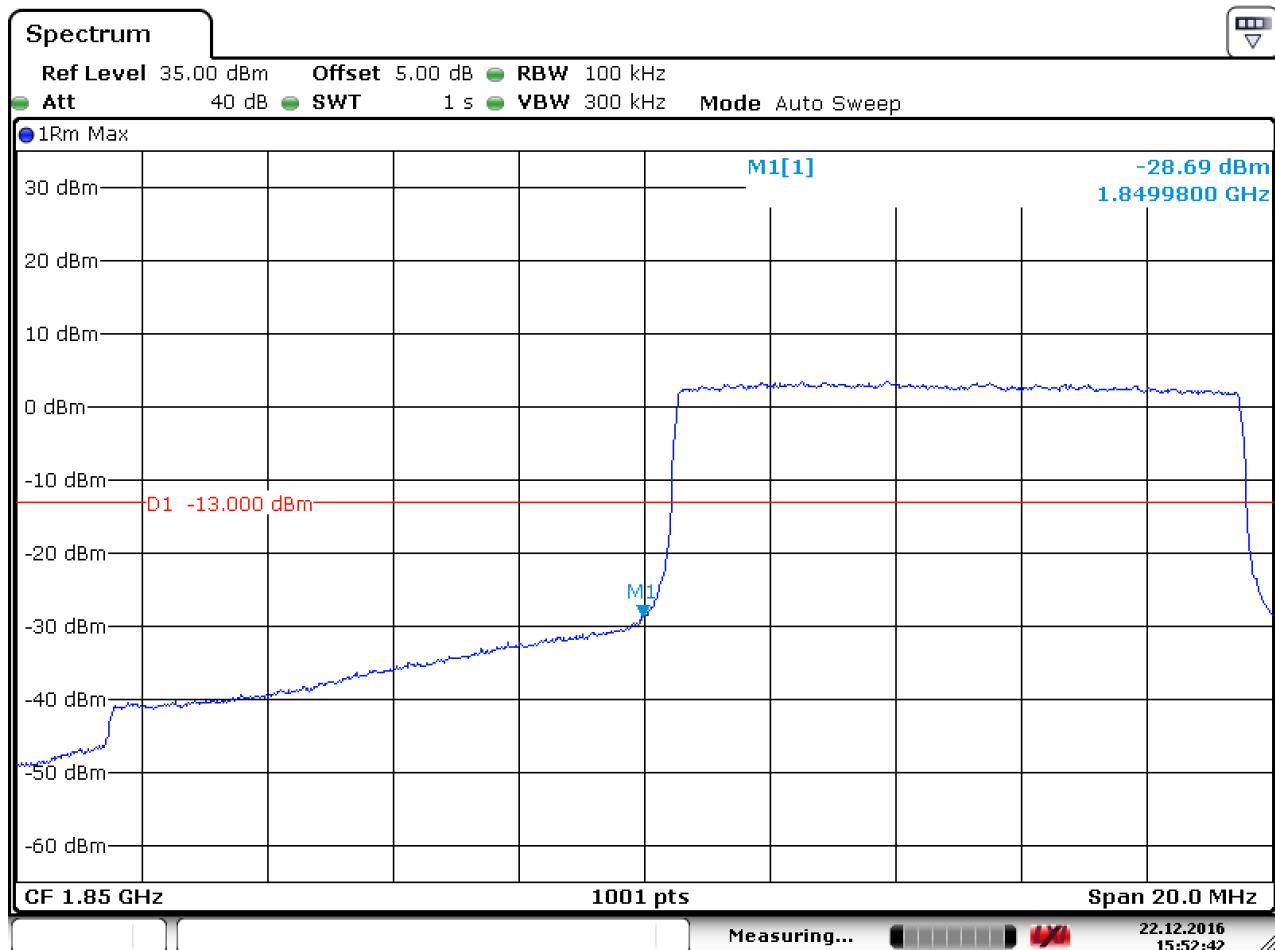
Date: 22.DEC.2016 15:56:58
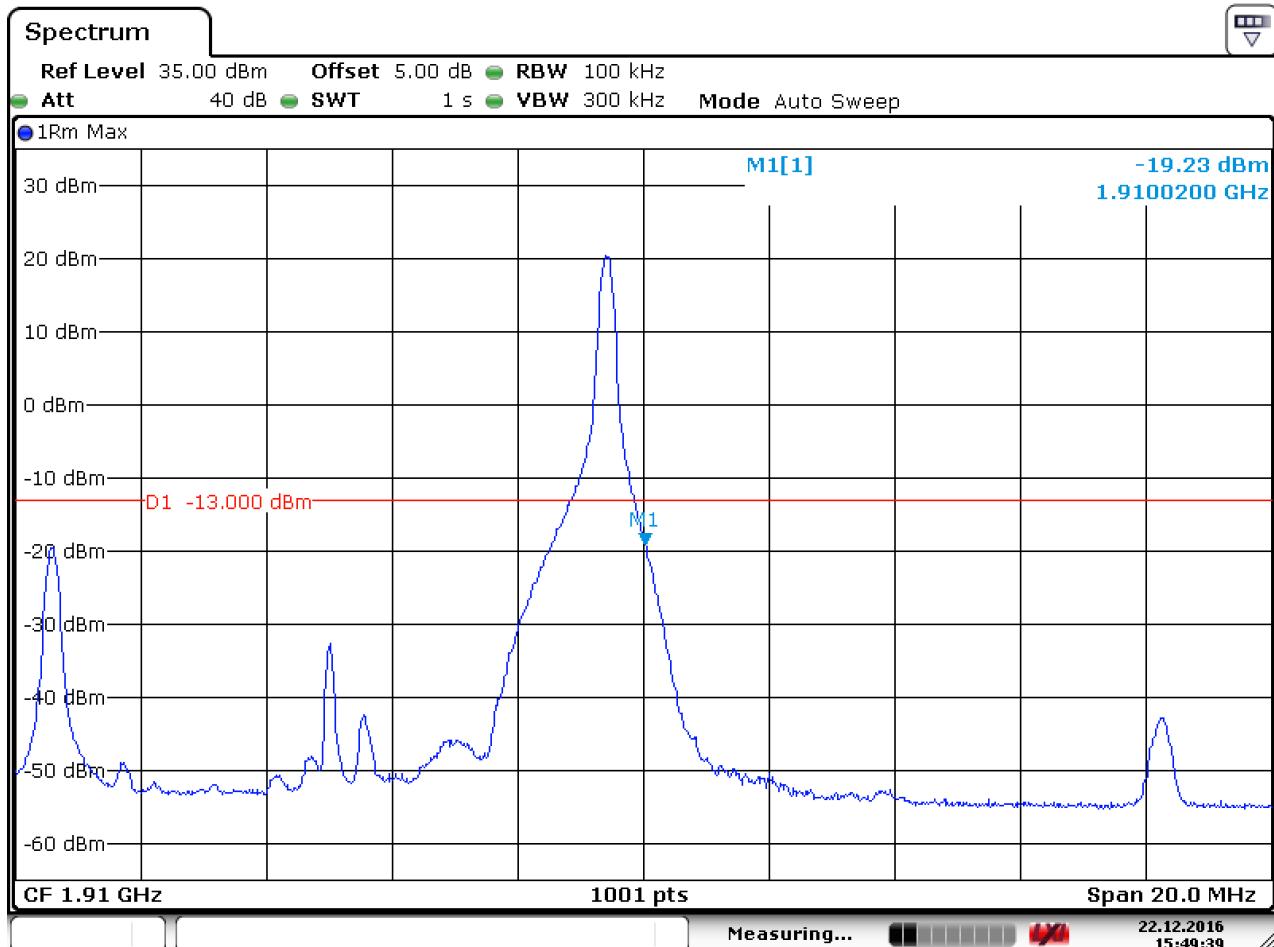
5.1.1.7   Test Mode = LTE/TM1 10MHz

5.1.1.7.1   Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB

Date: 22.DEC.2016 15:51:16

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### 5.1.1.7.1.2 Test RB=50RB

Date: 22.DEC.2016 15:52:43

5.1.1.7.2   Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB

Date: 22.DEC.2016 15:49:40