



Appendix B

E-UTRA Band 7



CONTENT

	Page
1 EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA.....	3
2 PEAK-TO-AVERAGE RATIO	15
2.1 FOR LTE	16
2.1.1 <i>Test Band = LTE band7</i>	16
3 MODULATION CHARACTERISTICS	21
3.1 FOR LTE	21
3.1.1 <i>Test Band = LTE band7</i>	21
4 BANDWIDTH	23
4.1 FOR LTE	24
4.1.1 <i>Test Band = LTE band7</i>	24
5 BAND EDGES COMPLIANCE	43
5.1 FOR LTE	43
5.1.1 <i>Test Band = LTE band7</i>	43
6 SPURIOUS EMISSION AT ANTENNA TERMINAL.....	68
6.1 FOR LTE	68
6.1.1 <i>Test Band = LTE band7</i>	68
7 FIELD STRENGTH OF SPURIOUS RADIATION	81
7.1 FOR LTE	81
7.1.1 <i>Test Band = LTE band7</i>	81
8 FREQUENCY STABILITY	83
8.1 FREQUENCY ERROR VS. VOLTAGE	83
8.2 FREQUENCY ERROR VS. TEMPERATURE	84



1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 7

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM1	5M	LCH	RB1#0	22.16	18.96	33.00	PASS
				RB1#13	22.17	18.97	33.00	PASS
				RB1#24	22.18	18.98	33.00	PASS
				RB12#0	21.22	18.02	33.00	PASS
				RB12#6	21.16	17.96	33.00	PASS
				RB12#13	21.21	18.01	33.00	PASS
				RB25#0	21.16	17.96	33.00	PASS
			MCH	RB1#0	22.14	18.94	33.00	PASS
				RB1#13	22.22	19.02	33.00	PASS
				RB1#24	22.22	19.02	33.00	PASS
				RB12#0	21.17	17.97	33.00	PASS
				RB12#6	21.13	17.93	33.00	PASS
				RB12#13	21.27	18.07	33.00	PASS
				RB25#0	21.17	17.97	33.00	PASS
			HCH	RB1#0	22.19	18.99	33.00	PASS
				RB1#13	22.26	19.06	33.00	PASS
				RB1#24	22.30	19.1	33.00	PASS
				RB12#0	21.26	18.06	33.00	PASS
				RB12#6	21.25	18.05	33.00	PASS
				RB12#13	21.29	18.09	33.00	PASS
				RB25#0	21.27	18.07	33.00	PASS



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Shenzhen Branch**

Report No.: SZEM171001122301

Page: 4 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM2	5M	LCH	RB1#0	21.47	18.27	33.00	PASS
				RB1#13	21.48	18.28	33.00	PASS
				RB1#24	21.46	18.26	33.00	PASS
				RB12#0	20.14	16.94	33.00	PASS
				RB12#6	20.08	16.88	33.00	PASS
				RB12#13	20.18	16.98	33.00	PASS
				RB25#0	20.10	16.9	33.00	PASS
			MCH	RB1#0	21.47	18.27	33.00	PASS
				RB1#13	21.52	18.32	33.00	PASS
				RB1#24	21.52	18.32	33.00	PASS
				RB12#0	20.19	16.99	33.00	PASS
				RB12#6	20.13	16.93	33.00	PASS
				RB12#13	20.17	16.97	33.00	PASS
				RB25#0	20.14	16.94	33.00	PASS
			HCH	RB1#0	21.51	18.31	33.00	PASS
				RB1#13	21.63	18.43	33.00	PASS
				RB1#24	21.59	18.39	33.00	PASS
				RB12#0	20.17	16.97	33.00	PASS
				RB12#6	20.17	16.97	33.00	PASS
				RB12#13	20.28	17.08	33.00	PASS
				RB25#0	20.19	16.99	33.00	PASS



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

Report No.: SZEM171001122301

Page: 5 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM3	5M	LCH	RB1#0	21.24	18.04	33.00	PASS
				RB1#13	21.22	18.02	33.00	PASS
				RB1#24	21.22	18.02	33.00	PASS
				RB12#0	20.17	16.97	33.00	PASS
				RB12#6	20.17	16.97	33.00	PASS
				RB12#13	20.18	16.98	33.00	PASS
				RB25#0	20.09	16.89	33.00	PASS
			MCH	RB1#0	21.22	18.02	33.00	PASS
				RB1#13	21.27	18.07	33.00	PASS
				RB1#24	21.26	18.06	33.00	PASS
				RB12#0	20.20	17	33.00	PASS
				RB12#6	20.13	16.93	33.00	PASS
				RB12#13	20.21	17.01	33.00	PASS
				RB25#0	20.13	16.93	33.00	PASS
			HCH	RB1#0	21.37	18.17	33.00	PASS
				RB1#13	21.34	18.14	33.00	PASS
				RB1#24	21.41	18.21	33.00	PASS
				RB12#0	20.22	17.02	33.00	PASS
				RB12#6	20.27	17.07	33.00	PASS
				RB12#13	20.27	17.07	33.00	PASS
				RB25#0	20.19	16.99	33.00	PASS



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

Report No.: SZEM171001122301

Page: 6 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM1	10M	LCH	RB1#0	22.18	18.98	33.00	PASS
				RB1#25	22.30	19.1	33.00	PASS
				RB1#49	22.24	19.04	33.00	PASS
				RB25#0	21.18	17.98	33.00	PASS
				RB25#13	21.17	17.97	33.00	PASS
				RB25#25	21.22	18.02	33.00	PASS
				RB50#0	21.19	17.99	33.00	PASS
			MCH	RB1#0	22.09	18.89	33.00	PASS
				RB1#25	22.00	18.8	33.00	PASS
				RB1#49	22.25	19.05	33.00	PASS
				RB25#0	21.17	17.97	33.00	PASS
				RB25#13	21.20	18	33.00	PASS
				RB25#25	21.24	18.04	33.00	PASS
				RB50#0	21.18	17.98	33.00	PASS
			HCH	RB1#0	22.24	19.04	33.00	PASS
				RB1#25	21.99	18.79	33.00	PASS
				RB1#49	22.27	19.07	33.00	PASS
				RB25#0	21.25	18.05	33.00	PASS
				RB25#13	21.22	18.02	33.00	PASS
				RB25#25	21.34	18.14	33.00	PASS
				RB50#0	21.27	18.07	33.00	PASS



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Report No.: SZEM171001122301

Page: 7 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM2	10M	LCH	RB1#0	21.43	18.23	33.00	PASS
				RB1#25	21.22	18.02	33.00	PASS
				RB1#49	21.22	18.02	33.00	PASS
				RB25#0	20.11	16.91	33.00	PASS
				RB25#13	20.11	16.91	33.00	PASS
				RB25#25	20.10	16.9	33.00	PASS
				RB50#0	20.07	16.87	33.00	PASS
			MCH	RB1#0	21.51	18.31	33.00	PASS
				RB1#25	21.34	18.14	33.00	PASS
				RB1#49	21.43	18.23	33.00	PASS
				RB25#0	20.12	16.92	33.00	PASS
				RB25#13	20.09	16.89	33.00	PASS
				RB25#25	20.15	16.95	33.00	PASS
				RB50#0	20.11	16.91	33.00	PASS
			HCH	RB1#0	21.46	18.26	33.00	PASS
				RB1#25	21.40	18.2	33.00	PASS
				RB1#49	21.58	18.38	33.00	PASS
				RB25#0	20.20	17	33.00	PASS
				RB25#13	20.19	16.99	33.00	PASS
				RB25#25	20.26	17.06	33.00	PASS
				RB50#0	20.17	16.97	33.00	PASS



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

Report No.: SZEM171001122301

Page: 8 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM3	10M	LCH	RB1#0	21.24	18.04	33.00	PASS
				RB1#25	21.15	17.95	33.00	PASS
				RB1#49	21.26	18.06	33.00	PASS
				RB25#0	20.05	16.85	33.00	PASS
				RB25#13	20.05	16.85	33.00	PASS
				RB25#25	20.09	16.89	33.00	PASS
				RB50#0	20.05	16.85	33.00	PASS
			MCH	RB1#0	21.20	18	33.00	PASS
				RB1#25	21.09	17.89	33.00	PASS
				RB1#49	21.27	18.07	33.00	PASS
				RB25#0	20.05	16.85	33.00	PASS
				RB25#13	20.10	16.9	33.00	PASS
				RB25#25	20.13	16.93	33.00	PASS
				RB50#0	20.12	16.92	33.00	PASS
			HCH	RB1#0	21.21	18.01	33.00	PASS
				RB1#25	21.10	17.9	33.00	PASS
				RB1#49	21.39	18.19	33.00	PASS
				RB25#0	20.14	16.94	33.00	PASS
				RB25#13	20.12	16.92	33.00	PASS
				RB25#25	20.16	16.96	33.00	PASS
				RB50#0	20.15	16.95	33.00	PASS



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

Report No.: SZEM171001122301

Page: 9 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM1	15M	LCH	RB1#0	22.19	18.99	33.00	PASS
				RB1#38	22.22	19.02	33.00	PASS
				RB1#74	22.27	19.07	33.00	PASS
				RB36#0	21.22	18.02	33.00	PASS
				RB36#18	21.25	18.05	33.00	PASS
				RB36#39	21.33	18.13	33.00	PASS
				RB75#0	21.25	18.05	33.00	PASS
			MCH	RB1#0	22.13	18.93	33.00	PASS
				RB1#38	22.22	19.02	33.00	PASS
				RB1#74	22.30	19.10	33.00	PASS
				RB36#0	21.20	18.00	33.00	PASS
				RB36#18	21.27	18.07	33.00	PASS
				RB36#39	21.31	18.11	33.00	PASS
				RB75#0	21.20	18.00	33.00	PASS
			HCH	RB1#0	22.21	19.01	33.00	PASS
				RB1#38	22.29	19.09	33.00	PASS
				RB1#74	22.36	19.16	33.00	PASS
				RB36#0	21.32	18.12	33.00	PASS
				RB36#18	21.30	18.10	33.00	PASS
				RB36#39	21.34	18.14	33.00	PASS
				RB75#0	21.30	18.1	33.00	PASS



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

Report No.: SZEM171001122301

Page: 10 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM2	15M	LCH	RB1#0	21.46	18.26	33.00	PASS
				RB1#38	21.40	18.2	33.00	PASS
				RB1#74	21.49	18.29	33.00	PASS
				RB36#0	20.17	16.97	33.00	PASS
				RB36#18	20.19	16.99	33.00	PASS
				RB36#39	20.26	17.06	33.00	PASS
				RB75#0	20.14	16.94	33.00	PASS
			MCH	RB1#0	21.39	18.19	33.00	PASS
				RB1#38	21.52	18.32	33.00	PASS
				RB1#74	21.60	18.40	33.00	PASS
				RB36#0	20.18	16.98	33.00	PASS
				RB36#18	20.20	17.00	33.00	PASS
				RB36#39	20.26	17.06	33.00	PASS
				RB75#0	20.13	16.93	33.00	PASS
			HCH	RB1#0	21.56	18.36	33.00	PASS
				RB1#38	21.60	18.40	33.00	PASS
				RB1#74	21.57	18.37	33.00	PASS
				RB36#0	20.24	17.04	33.00	PASS
				RB36#18	20.22	17.02	33.00	PASS
				RB36#39	20.28	17.08	33.00	PASS
				RB75#0	20.20	17.00	33.00	PASS



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

Report No.: SZEM171001122301

Page: 11 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM3	15M	LCH	RB1#0	21.15	17.95	33.00	PASS
				RB1#38	21.19	17.99	33.00	PASS
				RB1#74	21.23	18.03	33.00	PASS
				RB36#0	20.11	16.91	33.00	PASS
				RB36#18	20.10	16.9	33.00	PASS
				RB36#39	20.20	17.00	33.00	PASS
				RB75#0	20.13	16.93	33.00	PASS
			MCH	RB1#0	21.18	17.98	33.00	PASS
				RB1#38	21.22	18.02	33.00	PASS
				RB1#74	21.27	18.07	33.00	PASS
				RB36#0	20.06	16.86	33.00	PASS
				RB36#18	20.10	16.9	33.00	PASS
				RB36#39	20.21	17.01	33.00	PASS
				RB75#0	20.10	16.9	33.00	PASS
			HCH	RB1#0	21.19	17.99	33.00	PASS
				RB1#38	21.21	18.01	33.00	PASS
				RB1#74	21.27	18.07	33.00	PASS
				RB36#0	20.19	16.99	33.00	PASS
				RB36#18	20.17	16.97	33.00	PASS
				RB36#39	20.20	17.00	33.00	PASS
				RB75#0	20.20	17.00	33.00	PASS



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

Report No.: SZEM171001122301

Page: 12 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM1	20M	LCH	RB1#0	22.34	19.14	33.00	PASS
				RB1#50	21.99	18.79	33.00	PASS
				RB1#99	22.42	19.22	33.00	PASS
				RB50#0	21.22	18.02	33.00	PASS
				RB50#25	21.21	18.01	33.00	PASS
				RB50#50	21.25	18.05	33.00	PASS
				RB100#0	21.25	18.05	33.00	PASS
			MCH	RB1#0	22.30	19.1	33.00	PASS
				RB1#50	21.95	18.75	33.00	PASS
				RB1#99	22.51	19.31	33.00	PASS
				RB50#0	21.22	18.02	33.00	PASS
				RB50#25	21.22	18.02	33.00	PASS
				RB50#50	21.33	18.13	33.00	PASS
				RB100#0	21.22	18.02	33.00	PASS
			HCH	RB1#0	22.45	19.25	33.00	PASS
				RB1#50	21.98	18.78	33.00	PASS
				RB1#99	22.50	19.3	33.00	PASS
				RB50#0	21.28	18.08	33.00	PASS
				RB50#25	21.21	18.01	33.00	PASS
				RB50#50	21.34	18.14	33.00	PASS
				RB100#0	21.36	18.16	33.00	PASS



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

Report No.: SZEM171001122301

Page: 13 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM2	20M	LCH	RB1#0	21.54	18.34	33.00	PASS
				RB1#50	21.15	17.95	33.00	PASS
				RB1#99	21.74	18.54	33.00	PASS
				RB50#0	20.15	16.95	33.00	PASS
				RB50#25	20.12	16.92	33.00	PASS
				RB50#50	20.20	17	33.00	PASS
				RB100#0	20.20	17	33.00	PASS
			MCH	RB1#0	21.59	18.39	33.00	PASS
				RB1#50	21.15	17.95	33.00	PASS
				RB1#99	21.71	18.51	33.00	PASS
				RB50#0	20.15	16.95	33.00	PASS
				RB50#25	20.15	16.95	33.00	PASS
				RB50#50	20.25	17.05	33.00	PASS
				RB100#0	20.14	16.94	33.00	PASS
			HCH	RB1#0	21.67	18.47	33.00	PASS
				RB1#50	21.19	17.99	33.00	PASS
				RB1#99	21.76	18.56	33.00	PASS
				RB50#0	20.24	17.04	33.00	PASS
				RB50#25	20.16	16.96	33.00	PASS
				RB50#50	20.22	17.02	33.00	PASS
				RB100#0	20.24	17.04	33.00	PASS



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

Report No.: SZEM171001122301

Page: 14 of 86

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
BAND7	LTE/TM3	20M	LCH	RB1#0	21.45	18.25	33.00	PASS
				RB1#50	21.04	17.84	33.00	PASS
				RB1#99	21.49	18.29	33.00	PASS
				RB50#0	20.15	16.95	33.00	PASS
				RB50#25	20.14	16.94	33.00	PASS
				RB50#50	20.21	17.01	33.00	PASS
				RB100#0	20.19	16.99	33.00	PASS
			MCH	RB1#0	21.43	18.23	33.00	PASS
				RB1#50	21.14	17.94	33.00	PASS
				RB1#99	21.52	18.32	33.00	PASS
				RB50#0	20.11	16.91	33.00	PASS
				RB50#25	20.12	16.92	33.00	PASS
				RB50#50	20.25	17.05	33.00	PASS
				RB100#0	20.17	16.97	33.00	PASS
			HCH	RB1#0	21.45	18.25	33.00	PASS
				RB1#50	21.10	17.90	33.00	PASS
				RB1#99	21.58	18.38	33.00	PASS
				RB50#0	20.25	17.05	33.00	PASS
				RB50#25	20.13	16.93	33.00	PASS
				RB50#50	20.22	17.02	33.00	PASS
				RB100#0	20.25	17.05	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 7	TM1/20M	LCH	5.22	13	PASS
		MCH	5.65	13	PASS
		HCH	5.22	13	PASS
	TM2/20M	LCH	5.86	13	PASS
		MCH	6.26	13	PASS
		HCH	5.83	13	PASS
	TM3/20M	LCH	5.97	13	PASS
		MCH	6.67	13	PASS
		HCH	6.09	13	PASS



Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band7

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

2.1.1.1.1 Test Channel = LCH



Date: 12.NOV.2017 17:35:45

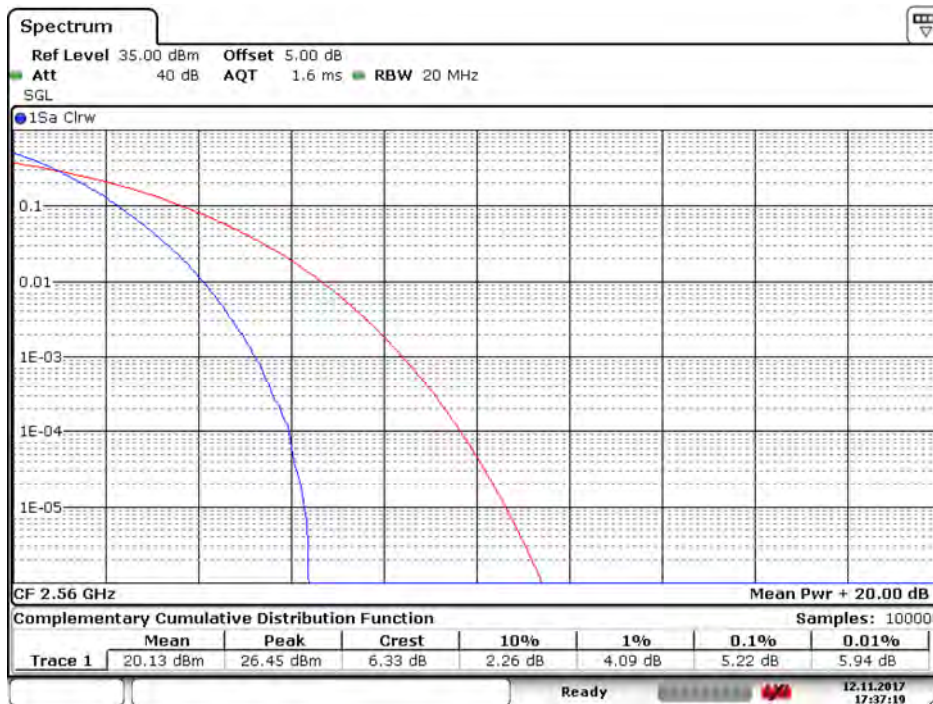


2.1.1.1.2 Test Channel = MCH



Date: 12.NOV.2017 17:36:28

2.1.1.1.3 Test Channel = HCH

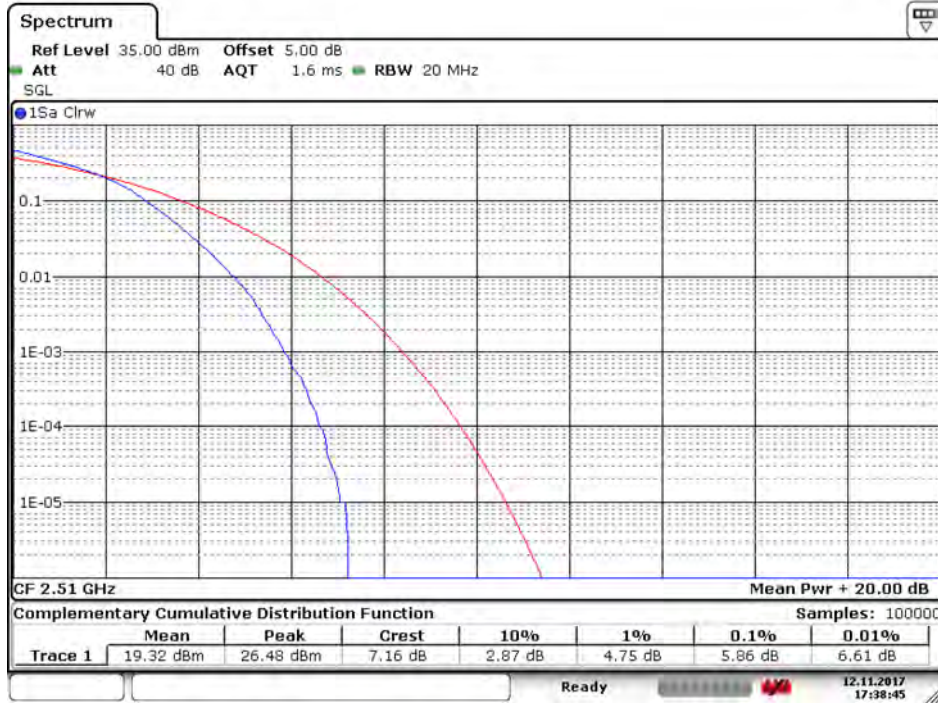


Date: 12.NOV.2017 17:37:20



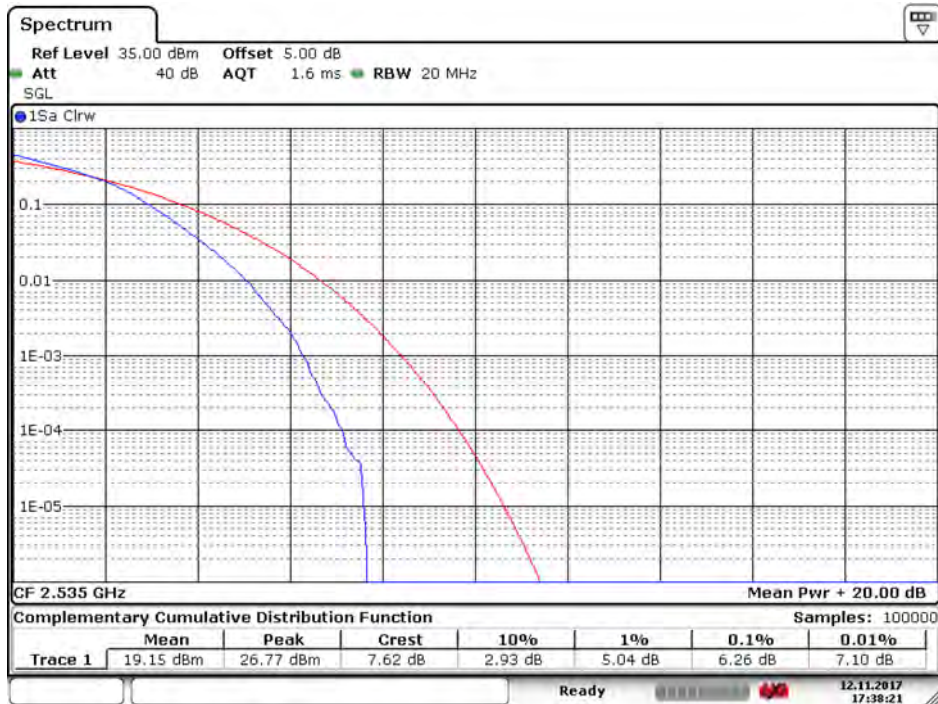
2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz

2.1.1.2.1 Test Channel = LCH



Date: 12.NOV.2017 17:38:46

2.1.1.2.2 Test Channel = MCH



Date: 12.NOV.2017 17:38:21



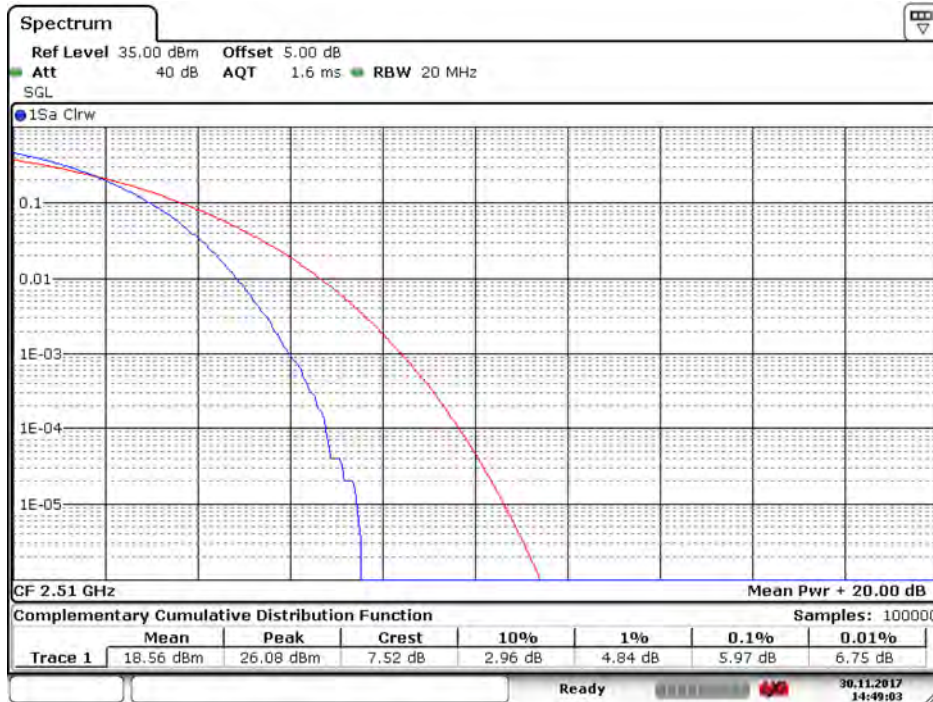
2.1.1.2.3 Test Channel = HCH



Date: 7.DEC.2016 11:53:20

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

2.1.1.3.1 Test Channel = LCH



Date: 30.NOV.2017 14:49:03



2.1.1.3.2 Test Channel = MCH



Date: 30.NOV.2017 14:48:19

2.1.1.3.3 Test Channel = HCH



Date: 30.NOV.2017 14:47:21



3 Modulation Characteristics

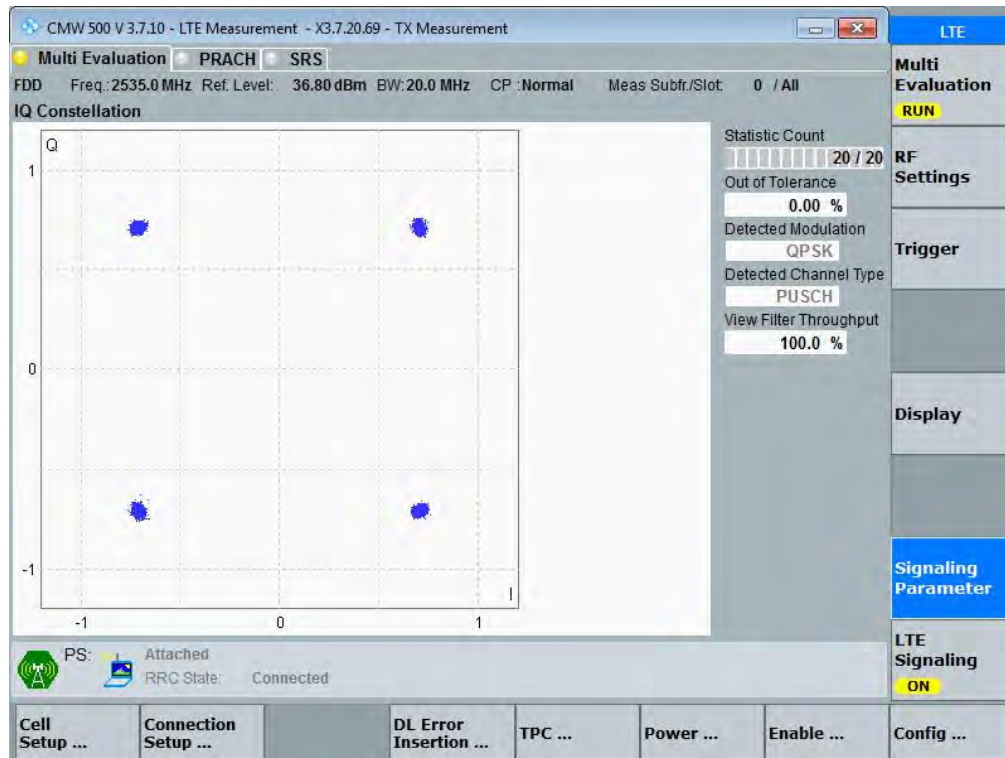
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band7

3.1.1.1 Test Mode = LTE /TM1 20MHz

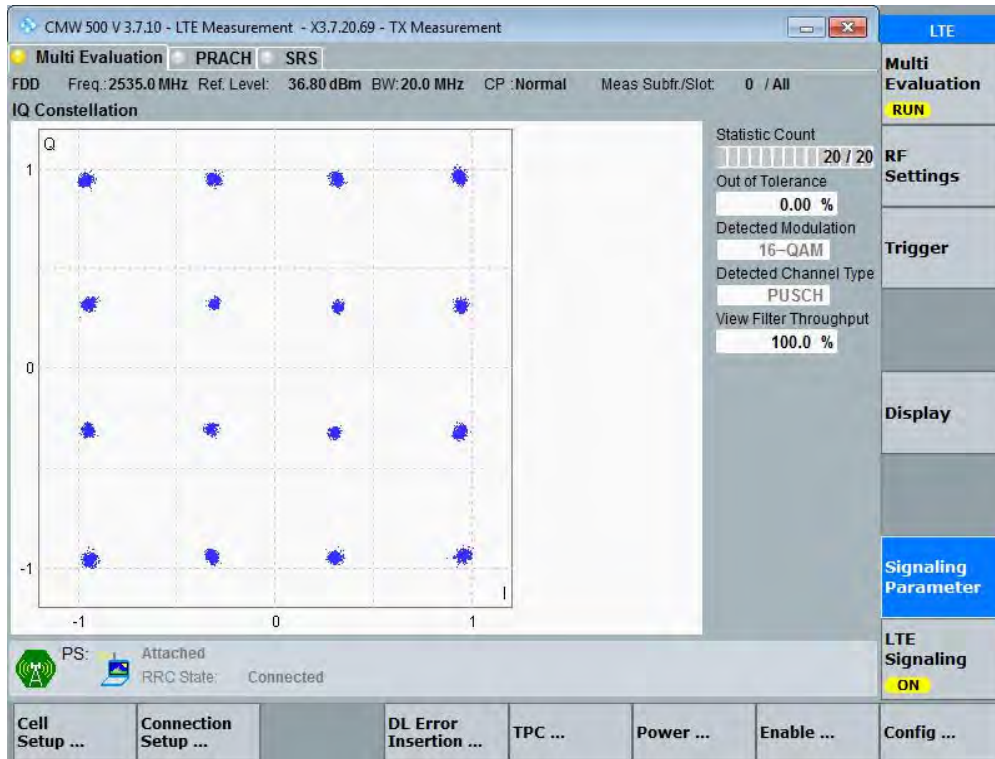
3.1.1.1.1 Test Channel = MCH





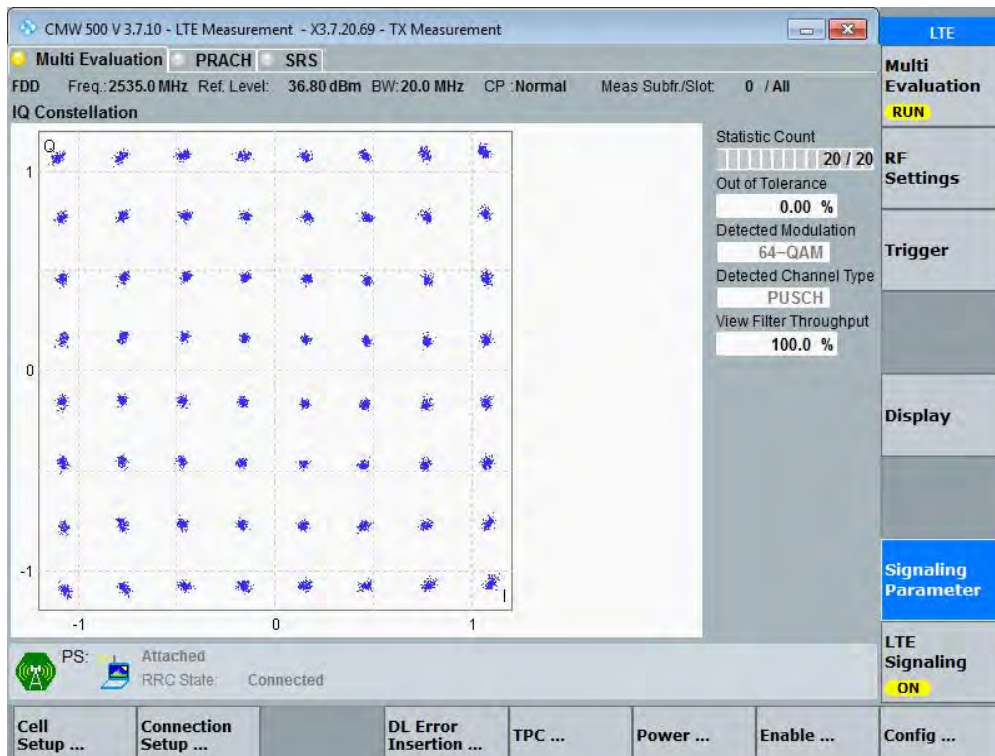
3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH



3.1.1.3 Test Mode = LTE /TM3 20MHz

3.1.1.3.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 7	TM1/ 5MHz	LCH	4.49	4.89	PASS
		MCH	4.49	4.90	PASS
		HCH	4.49	4.86	PASS
	TM2/ 5MHz	LCH	4.48	4.90	PASS
		MCH	4.49	4.90	PASS
		HCH	4.49	4.91	PASS
	TM3/ 5MHz	LCH	4.48	4.89	PASS
		MCH	4.48	4.87	PASS
		HCH	4.48	4.87	PASS
	TM1/10MHz	LCH	8.93	9.75	PASS
		MCH	8.95	9.79	PASS
		HCH	8.93	9.77	PASS
	TM2/ 10MHz	LCH	8.95	9.73	PASS
		MCH	8.95	9.73	PASS
		HCH	8.93	9.71	PASS
	TM3/ 10MHz	LCH	8.93	9.69	PASS
		MCH	8.95	9.73	PASS
		HCH	8.93	9.83	PASS
	TM1/ 15MHz	LCH	13.49	14.99	PASS
		MCH	13.55	15.11	PASS
		HCH	13.55	15.02	PASS
	TM2/ 15MHz	LCH	13.52	15.08	PASS
		MCH	13.52	15.11	PASS
		HCH	13.55	15.11	PASS
	TM3/ 15MHz	LCH	13.49	14.80	PASS
		MCH	13.52	14.93	PASS
		HCH	13.49	14.84	PASS
	TM1/ 20MHz	LCH	17.94	19.66	PASS
		MCH	17.98	19.82	PASS
		HCH	17.98	19.66	PASS
TM2/ 20MHz	LCH	17.90	19.74	PASS	
	MCH	17.98	19.78	PASS	
	HCH	17.98	19.62	PASS	
TM3/ 20MHz	LCH	17.90	19.54	PASS	
	MCH	17.98	19.70	PASS	
	HCH	17.94	19.58	PASS	

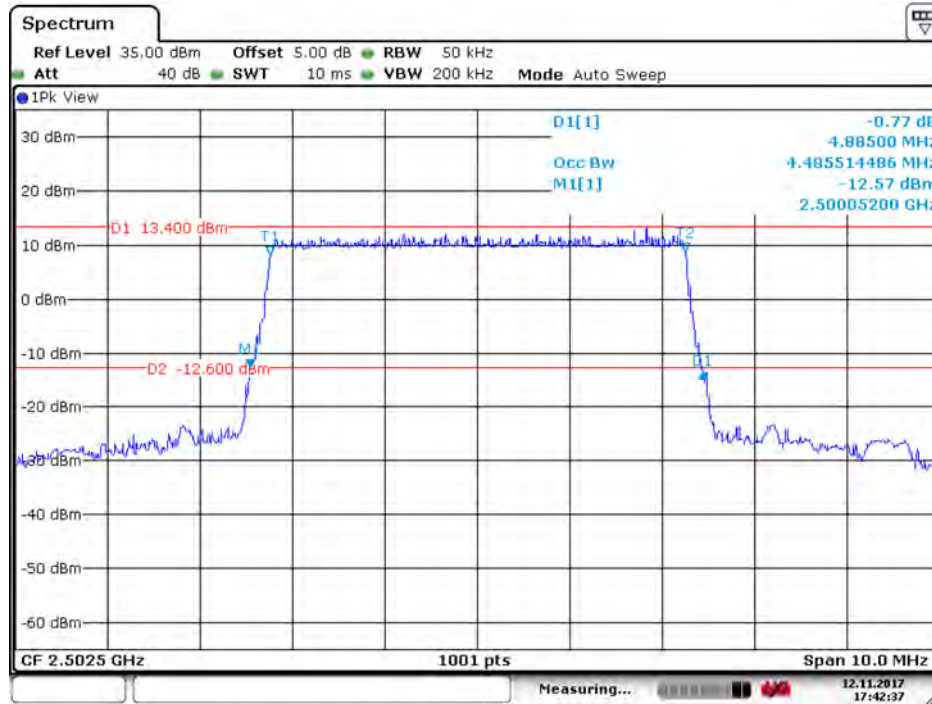


4.1 For LTE

4.1.1 Test Band = LTE band7

4.1.1.1 Test Mode = LTE/TM1 5MHz

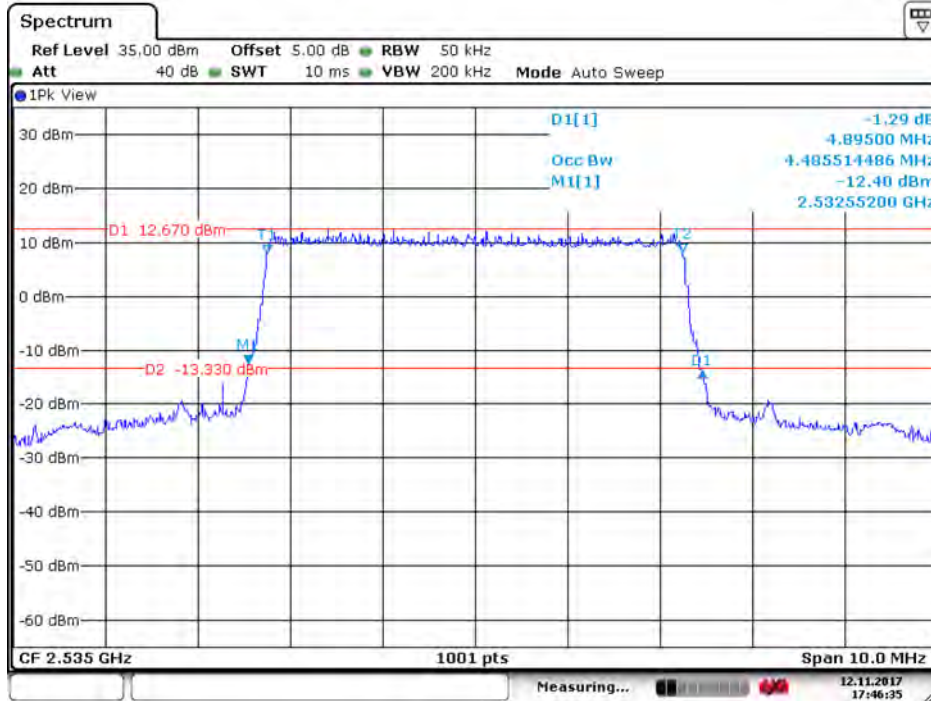
4.1.1.1.1 Test Channel = LCH



Date: 12.NOV.2017 17:42:37

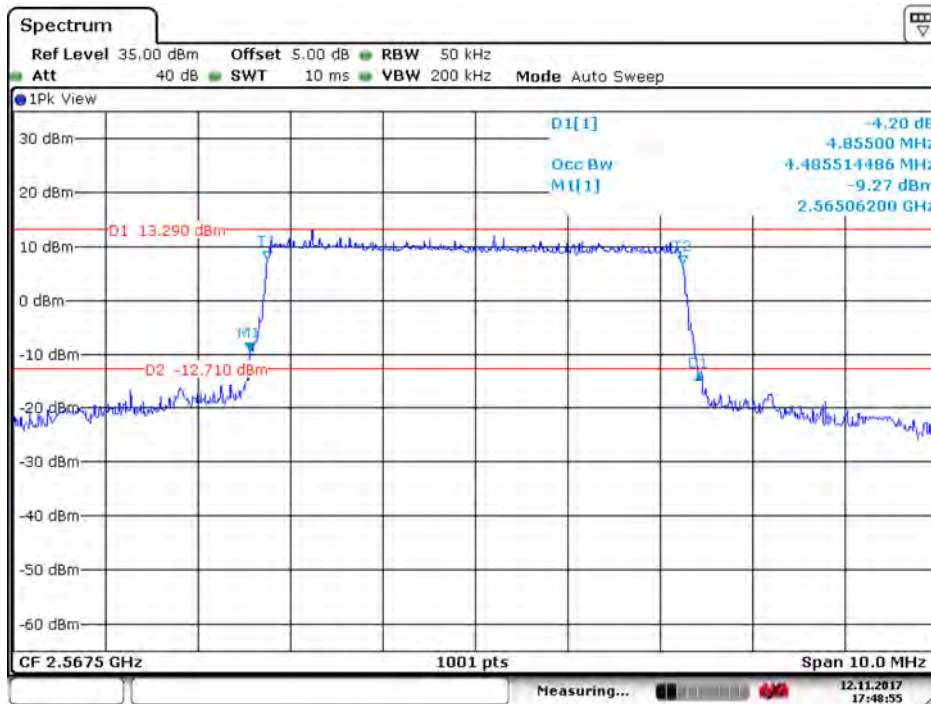


4.1.1.1.2 Test Channel = MCH



Date: 12.NOV.2017 17:46:35

4.1.1.1.3 Test Channel = HCH

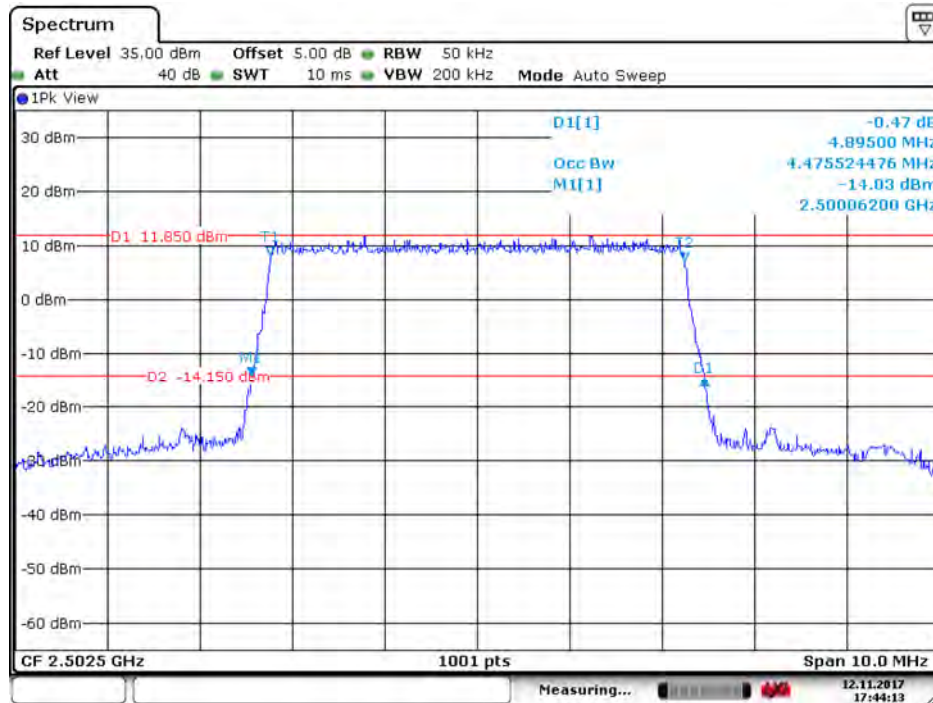


Date: 12.NOV.2017 17:48:55



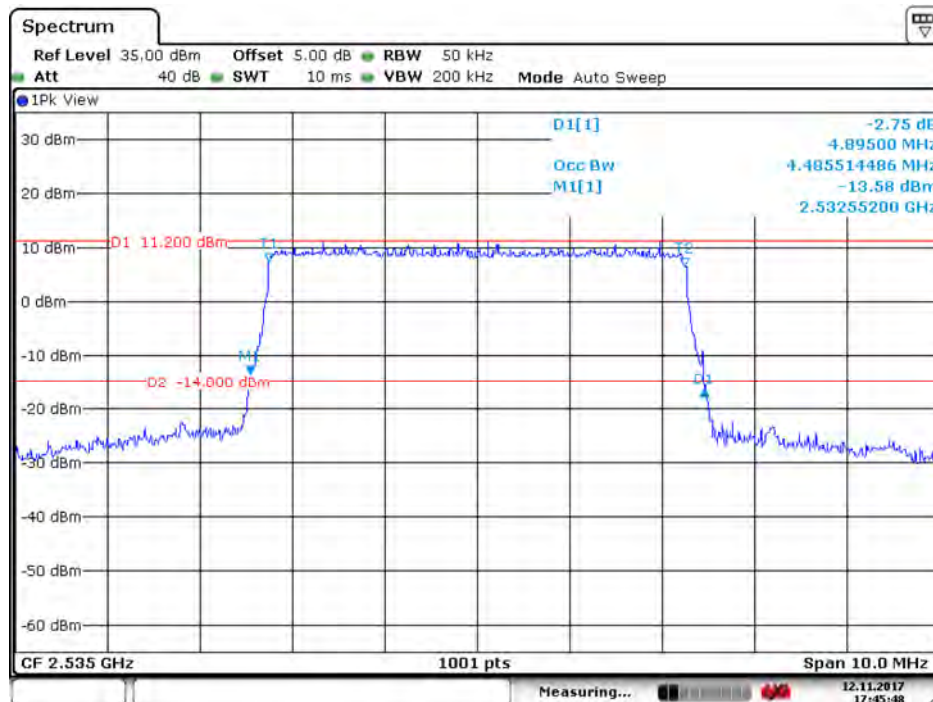
4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH



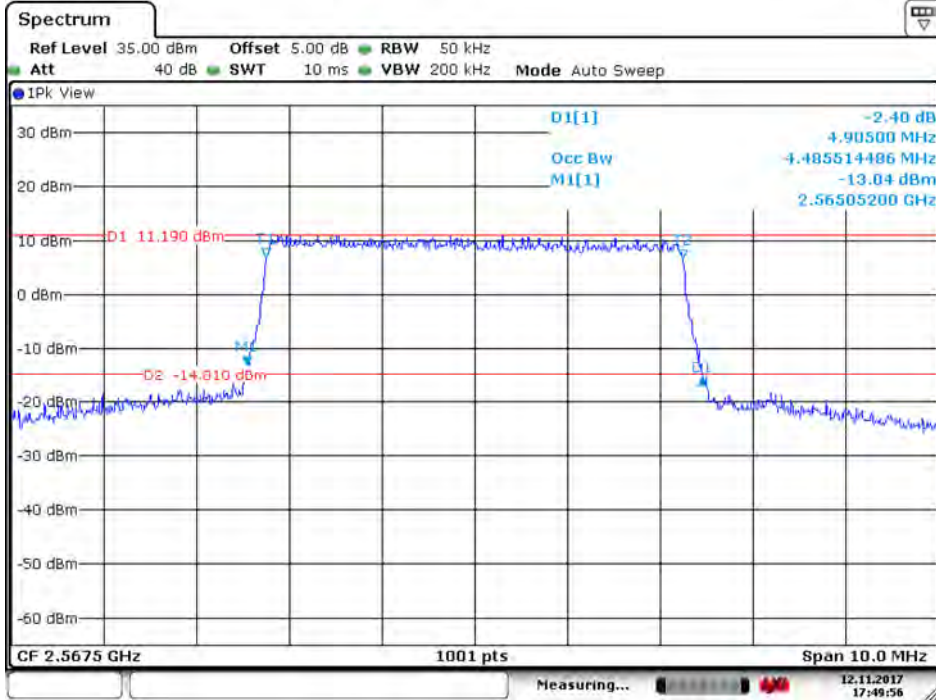
Date: 12.NOV.2017 17:44:13

4.1.1.2.2 Test Channel = MCH



Date: 12.NOV.2017 17:45:48

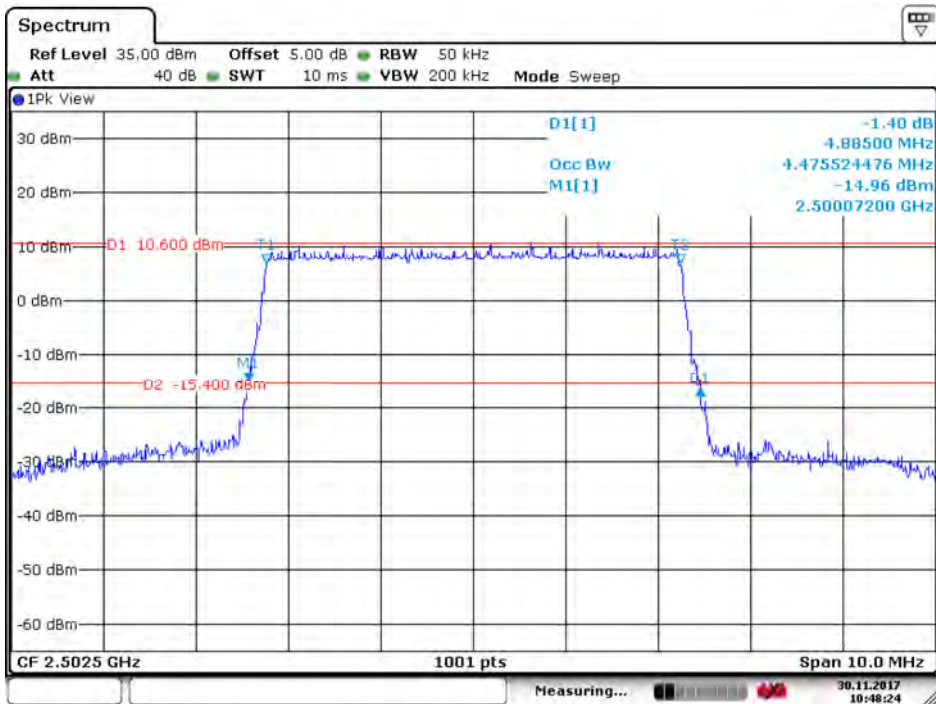
4.1.1.2.3 Test Channel = HCH



Date: 12.NOV.2017 17:49:56

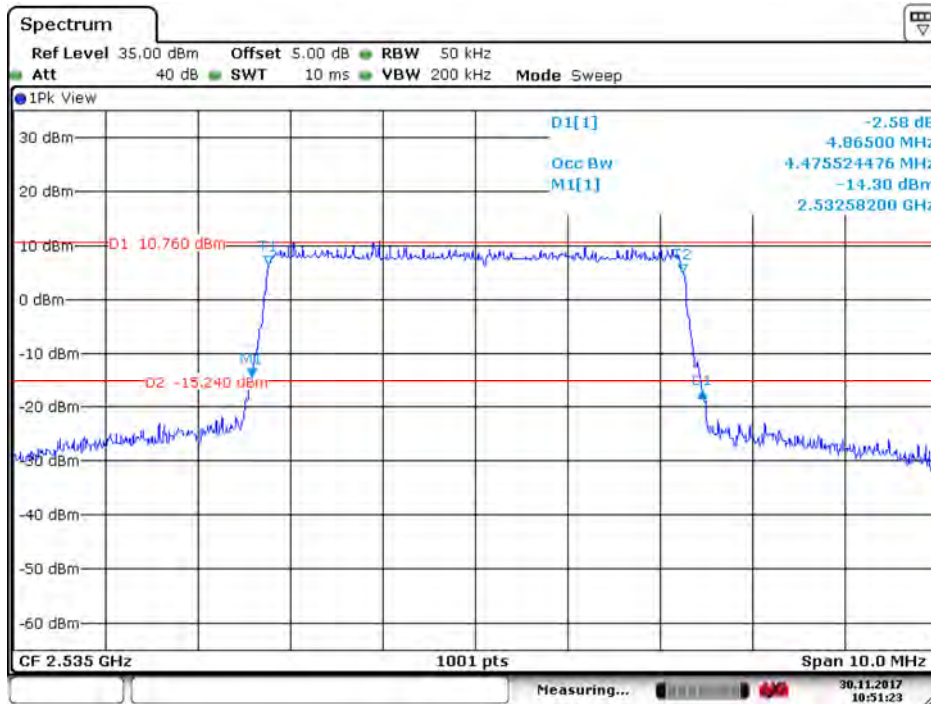
4.1.1.3 Test Mode = LTE/TM3 5MHz

4.1.1.3.1 Test Channel = LCH



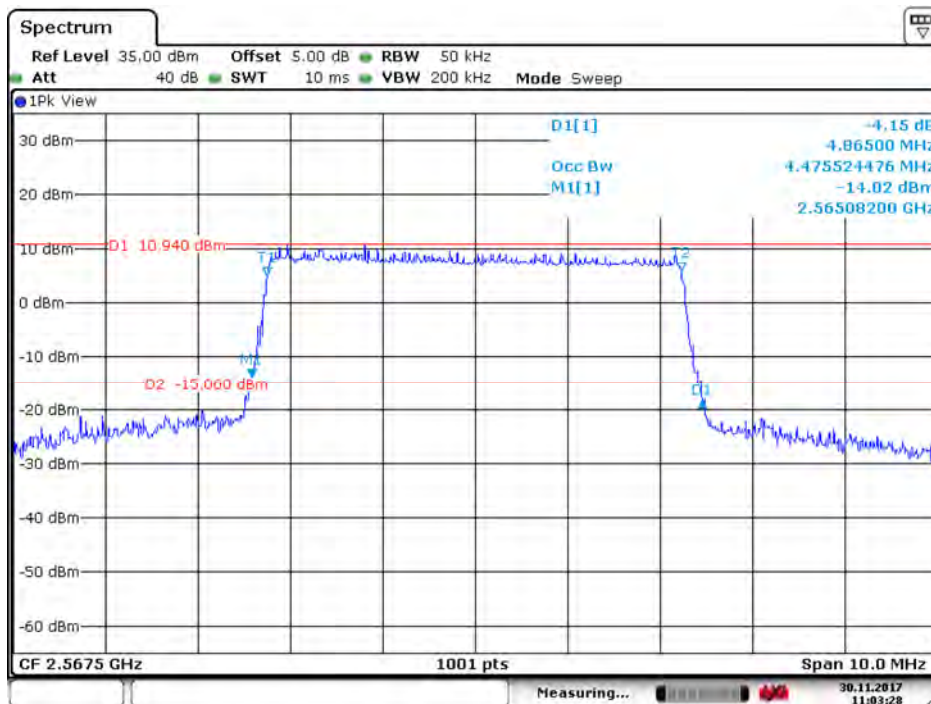
Date: 30.NOV.2017 10:48:25

4.1.1.3.2 Test Channel = MCH



Date: 30.NOV.2017 10:51:23

4.1.1.3.3 Test Channel = HCH

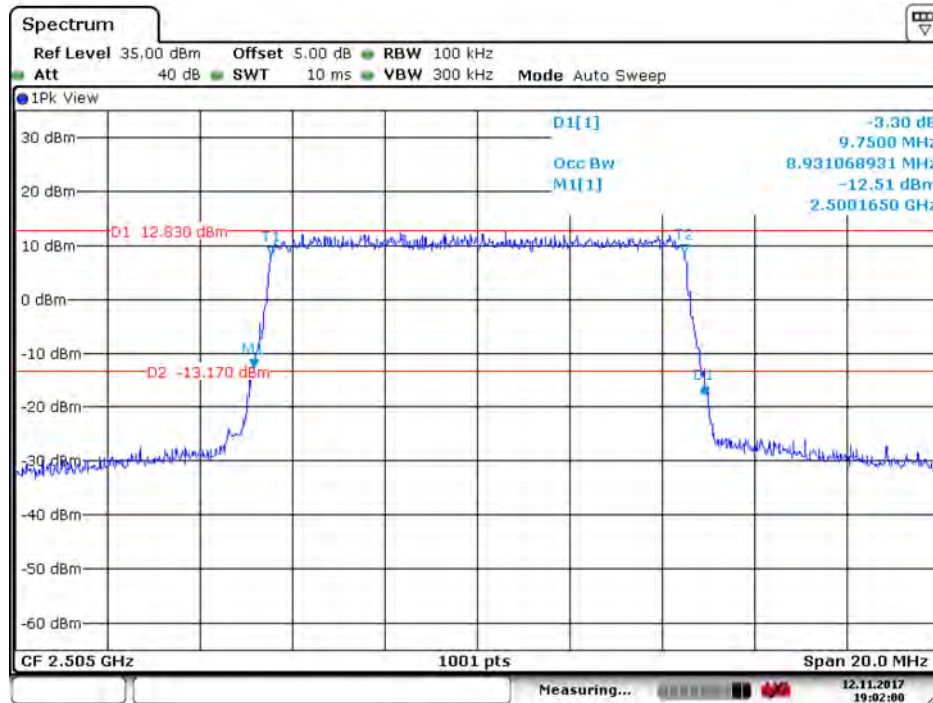


Date: 30.NOV.2017 11:03:28



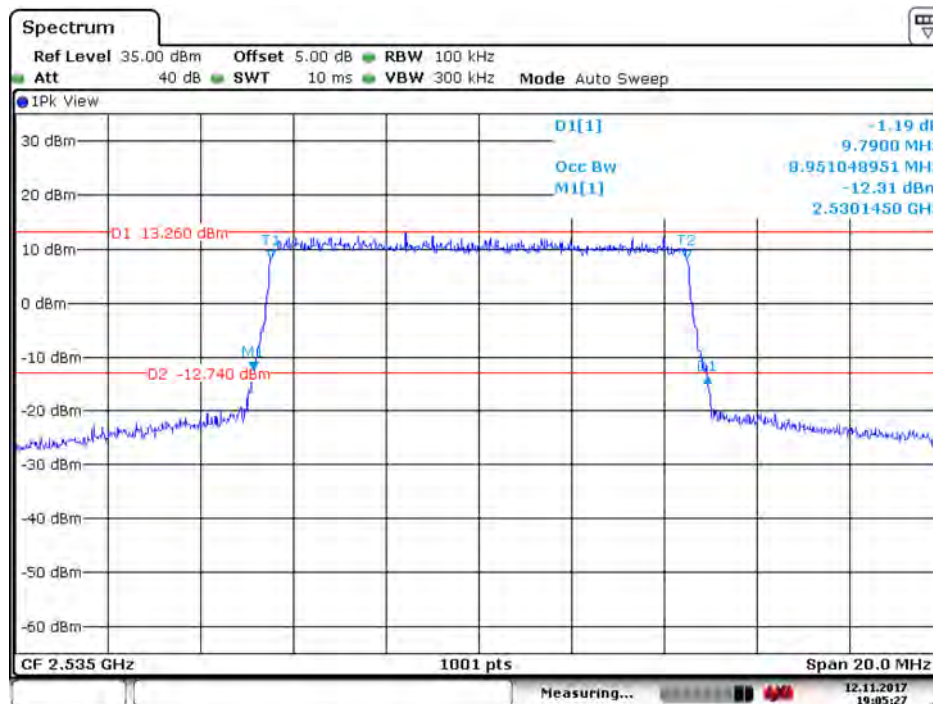
4.1.1.4 Test Mode = LTE/TM1 10MHz

4.1.1.4.1 Test Channel = LCH



Date: 12.NOV.2017 19:02:00

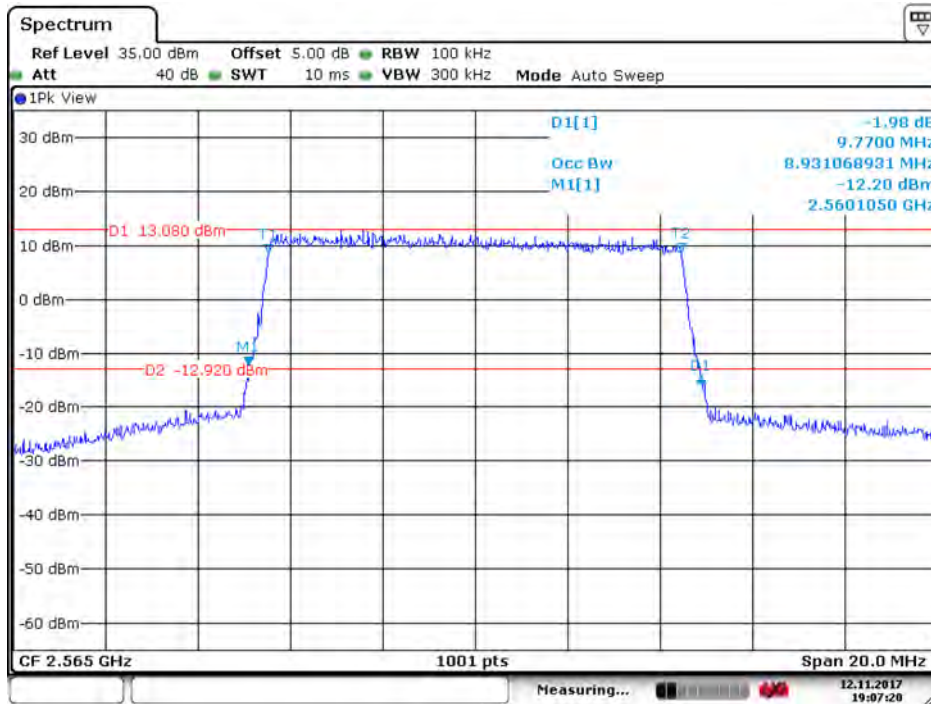
4.1.1.4.2 Test Channel = MCH



Date: 12.NOV.2017 19:05:28



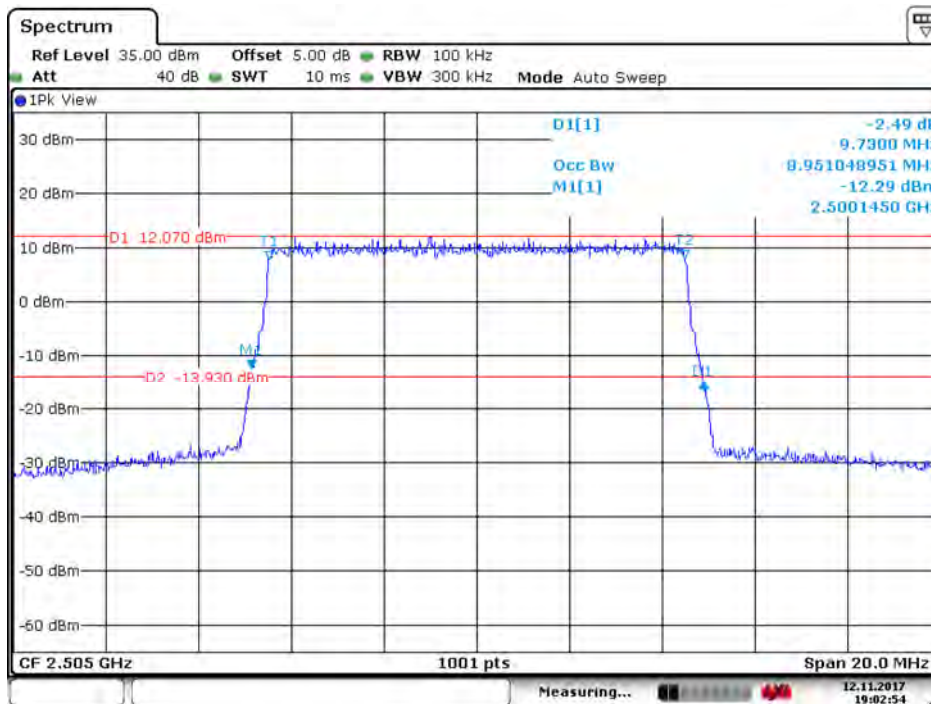
4.1.1.4.3 Test Channel = HCH



Date: 12.NOV.2017 19:07:21

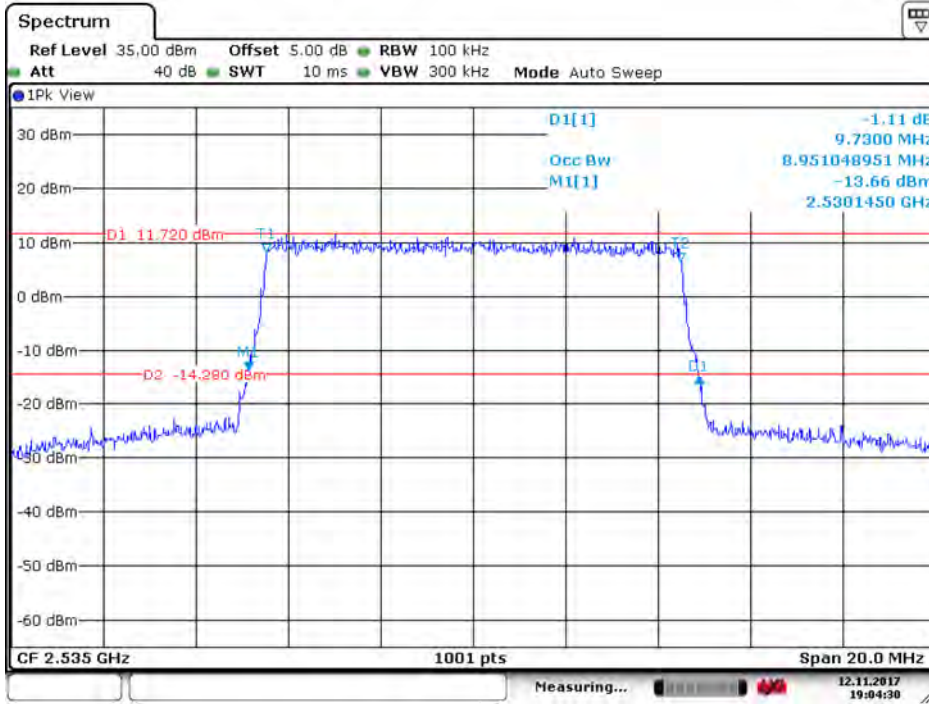
4.1.1.5 Test Mode = LTE/TM2 10MHz

4.1.1.5.1 Test Channel = LCH



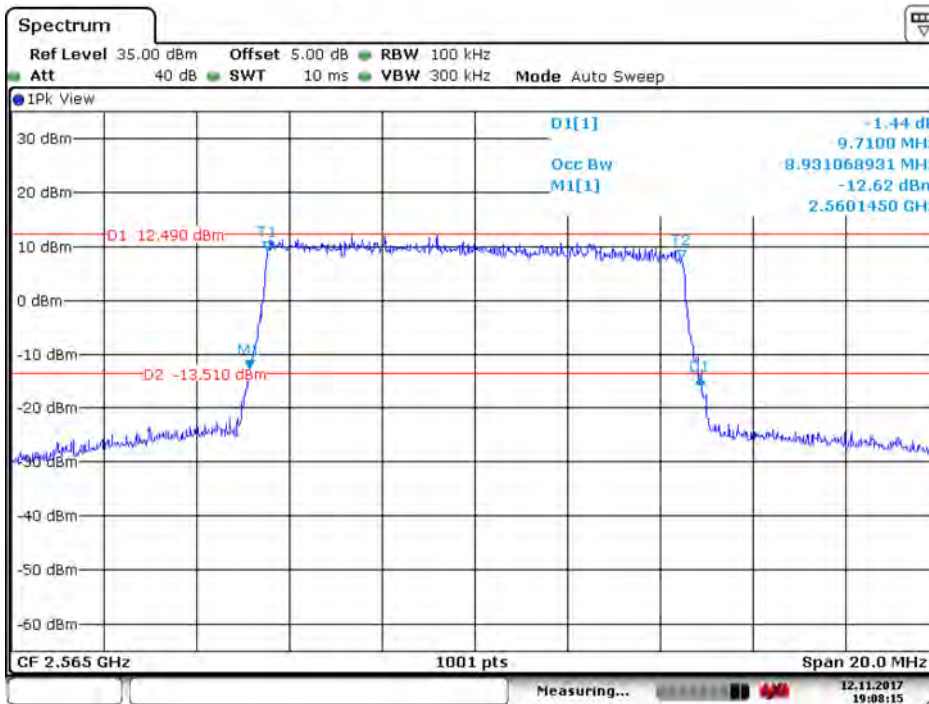
Date: 12.NOV.2017 19:02:55

4.1.1.5.2 Test Channel = MCH



Date: 12.NOV.2017 19:04:31

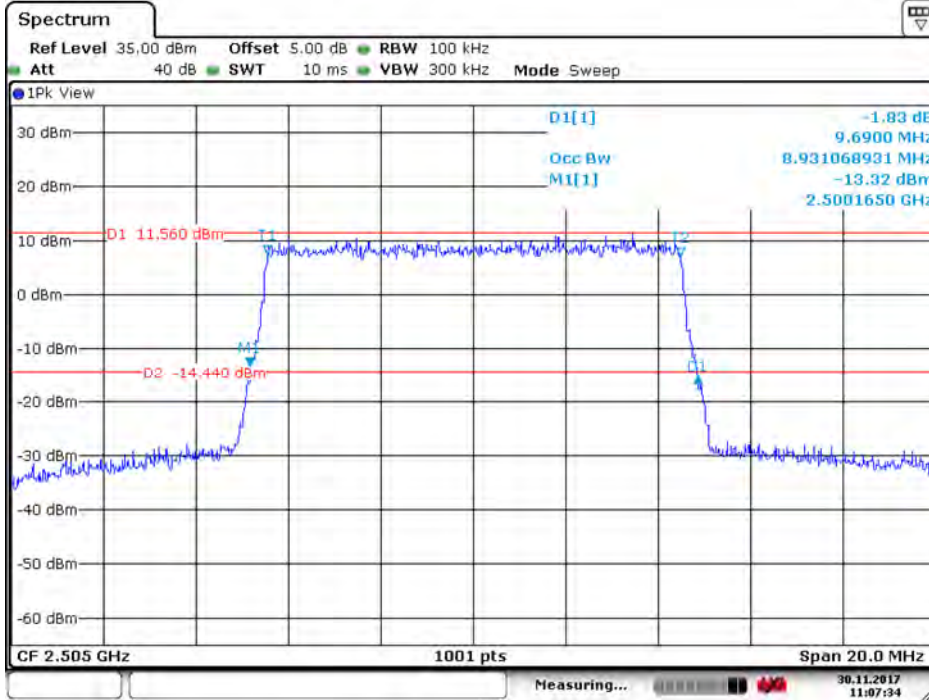
4.1.1.5.3 Test Channel = HCH



Date: 12.NOV.2017 19:08:15

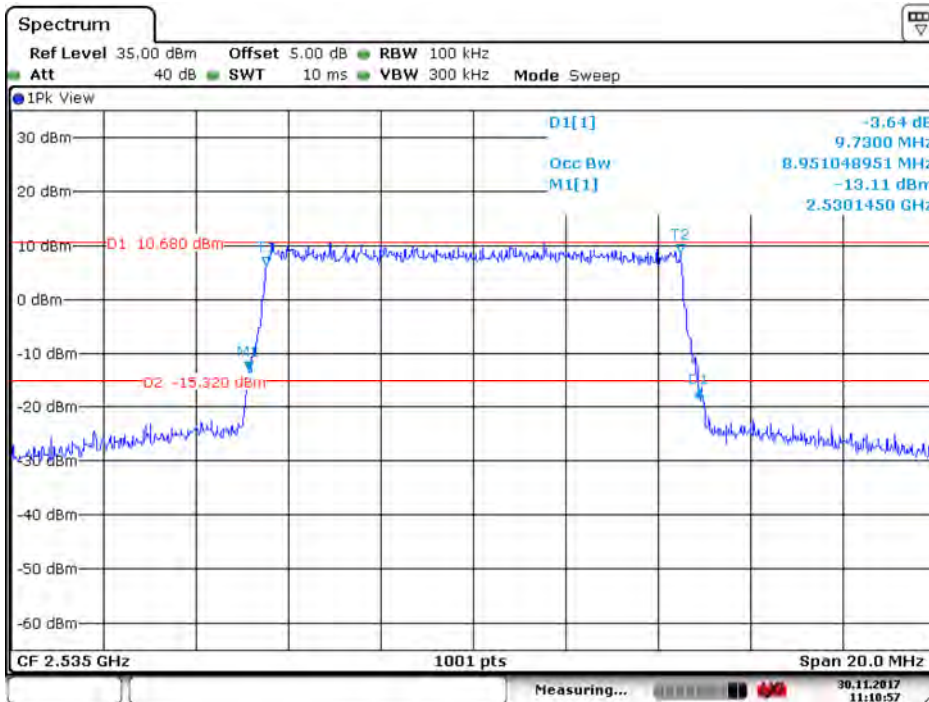
4.1.1.6 Test Mode = LTE/TM3 10MHz

4.1.1.6.1 Test Channel = LCH



Date: 30.NOV.2017 11:07:35

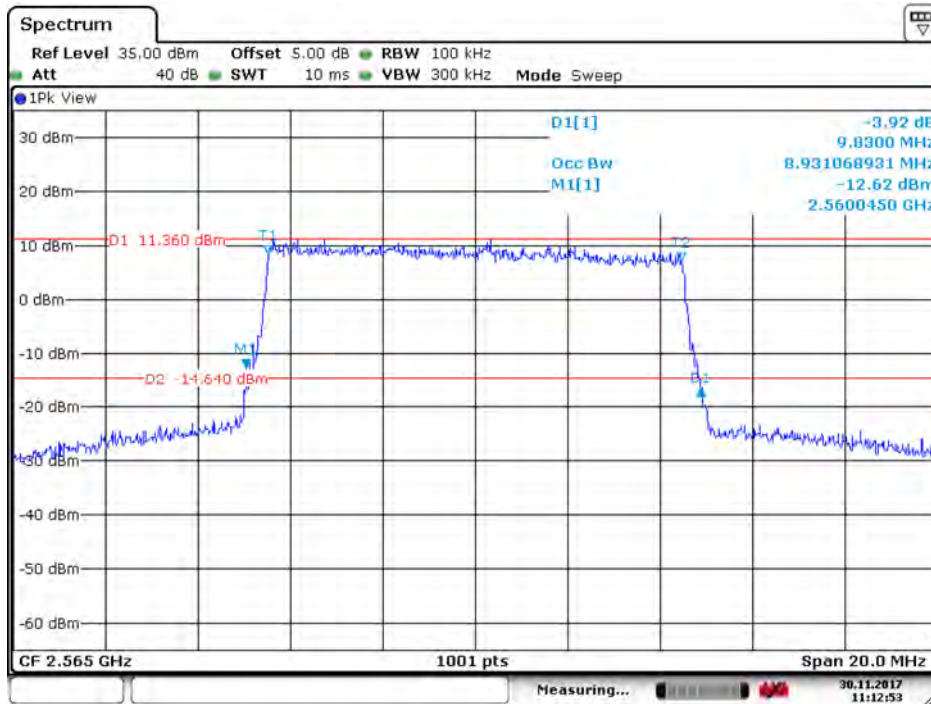
4.1.1.6.2 Test Channel = MCH



Date: 30.NOV.2017 11:10:58



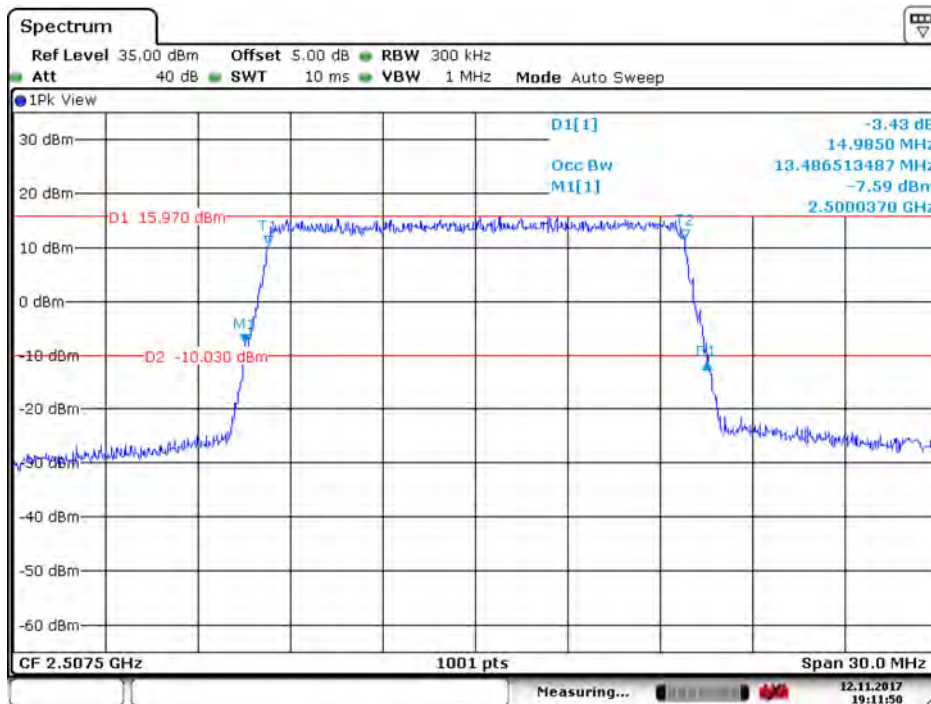
4.1.1.6.3 Test Channel = HCH



Date: 30.NOV.2017 11:12:53

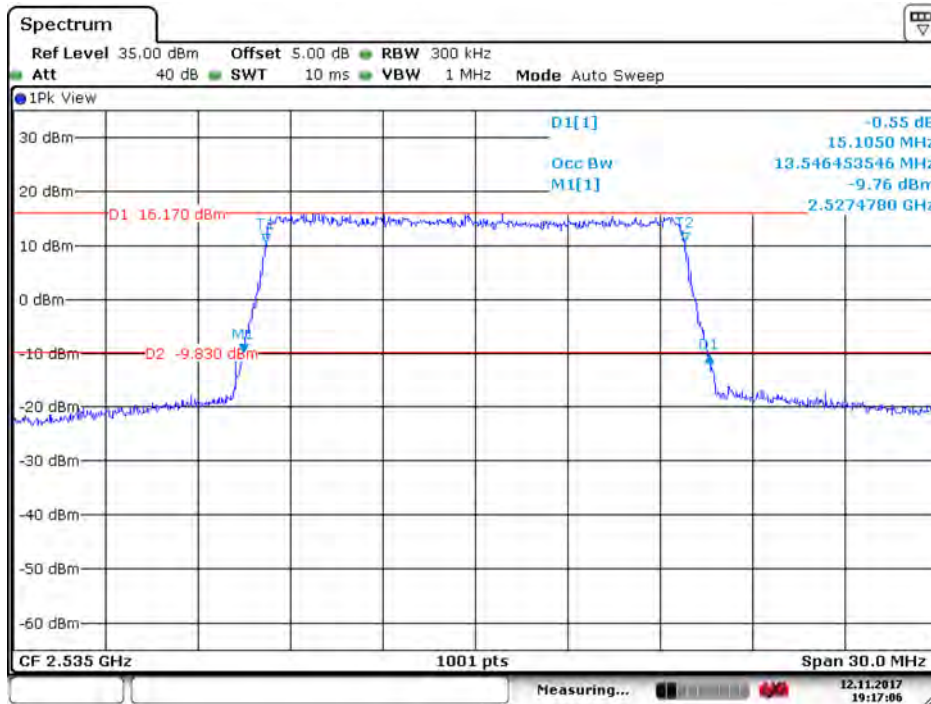
4.1.1.7 Test Mode = LTE/TM1 15MHz

4.1.1.7.1 Test Channel = LCH



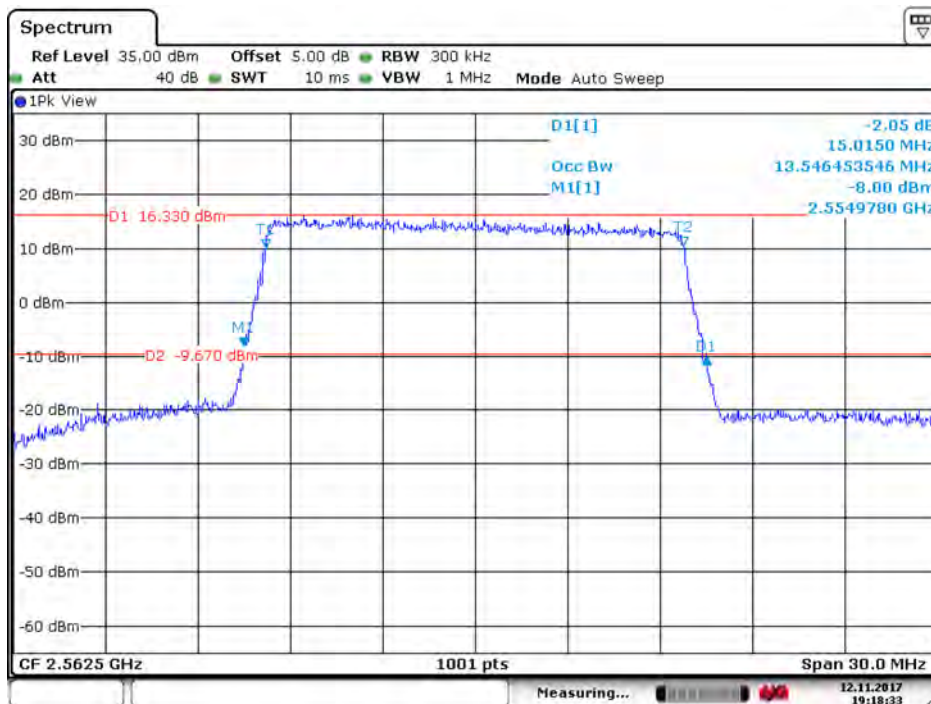
Date: 12.NOV.2017 19:11:51

4.1.1.7.2 Test Channel = MCH



Date: 12.NOV.2017 19:17:06

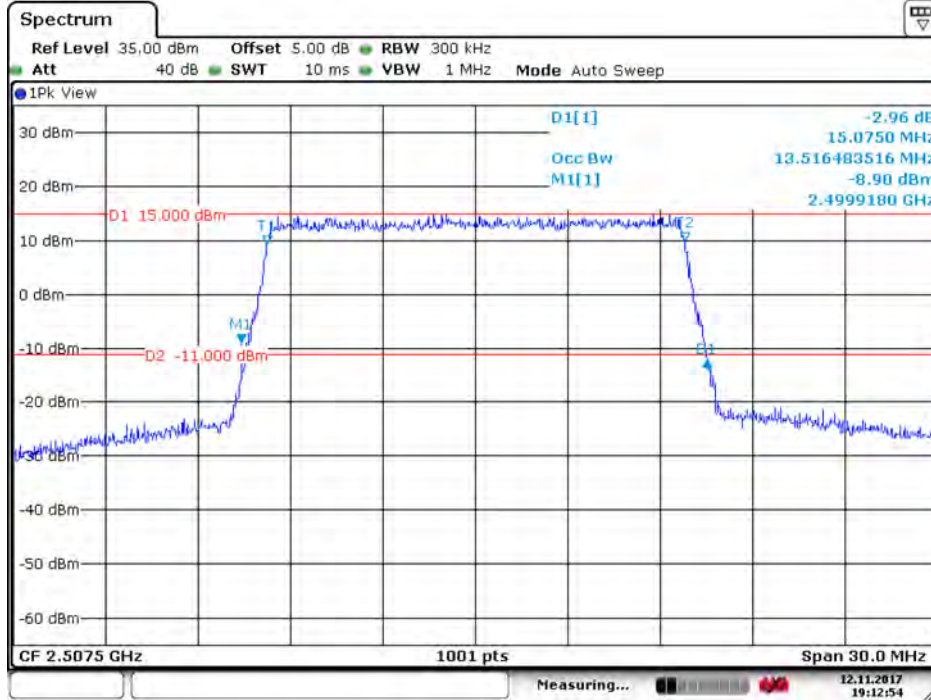
4.1.1.7.3 Test Channel = HCH



Date: 12.NOV.2017 19:18:34

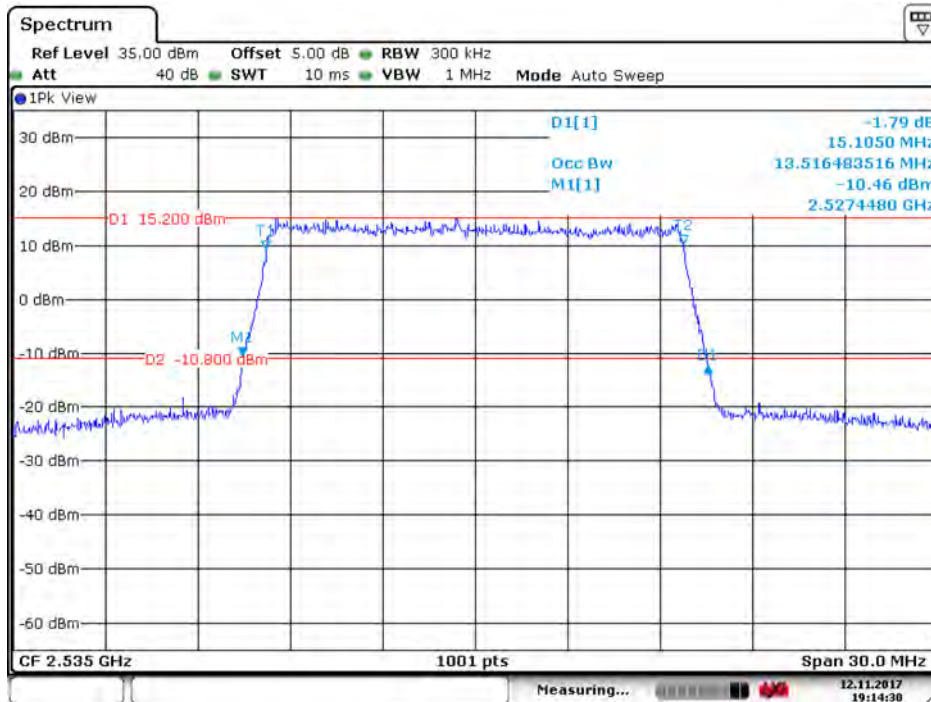
4.1.1.8 Test Mode = LTE/TM2 15MHz

4.1.1.8.1 Test Channel = LCH



Date: 12.NOV.2017 19:12:54

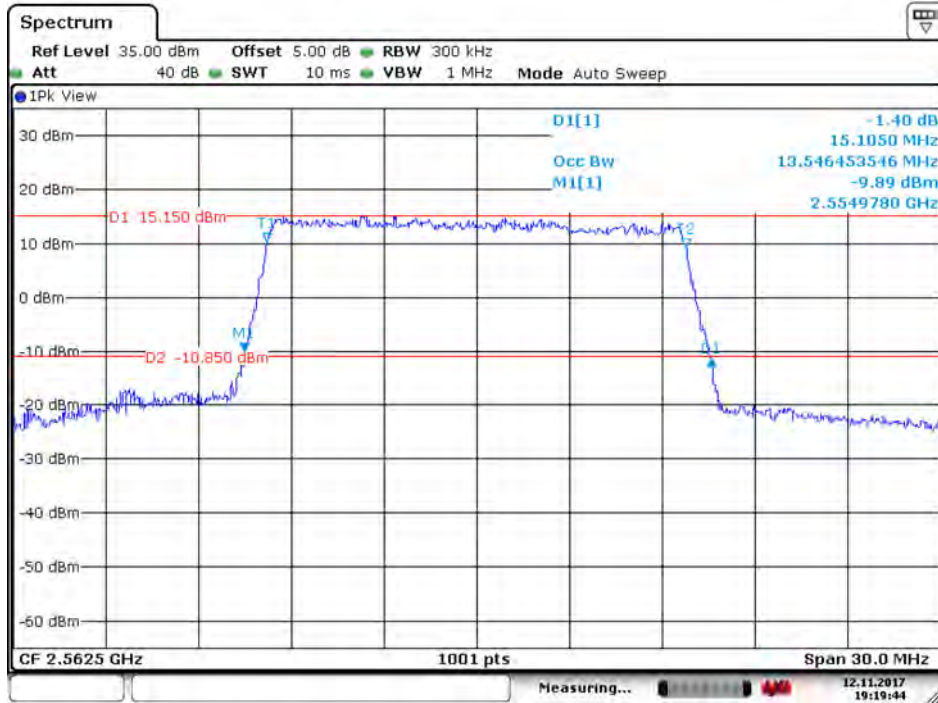
4.1.1.8.2 Test Channel = MCH



Date: 12.NOV.2017 19:14:31



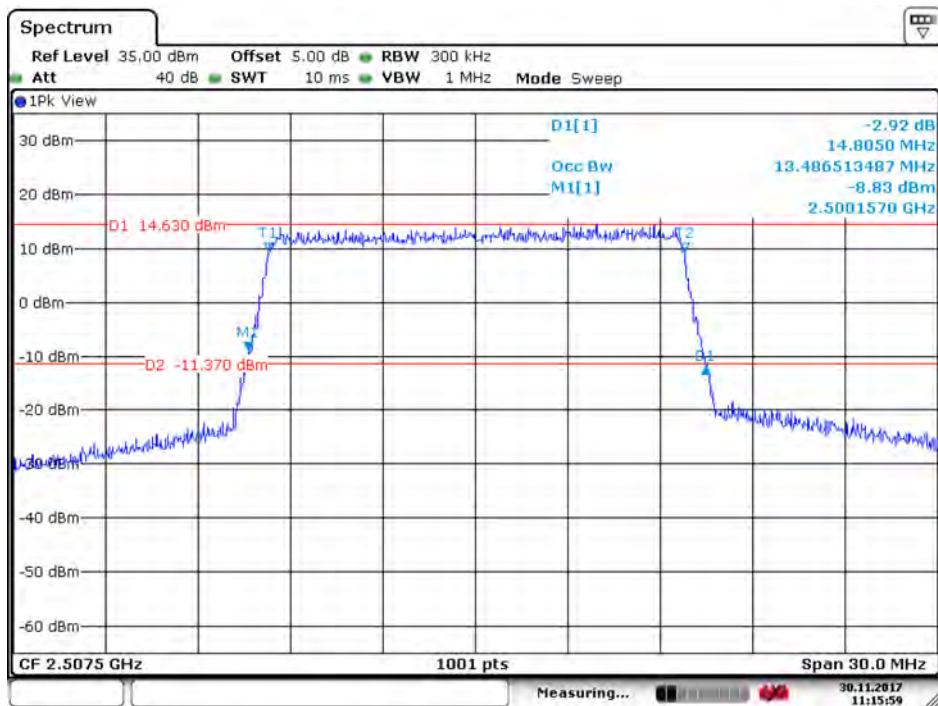
4.1.1.8.3 Test Channel = HCH



Date: 12.NOV.2017 19:19:44

4.1.1.9 Test Mode = LTE/TM3 15MHz

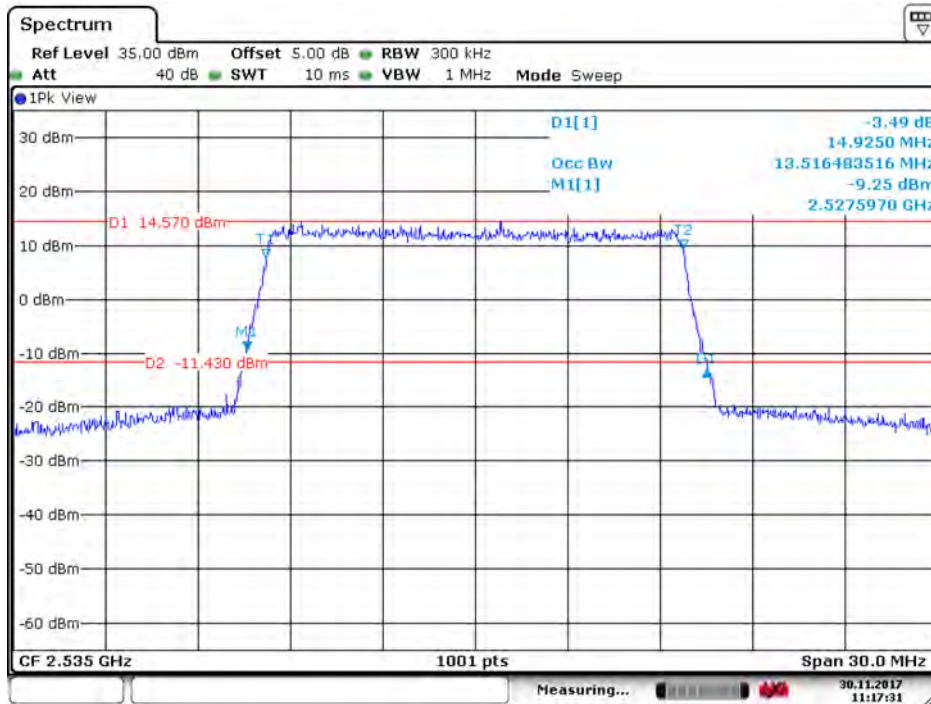
4.1.1.9.1 Test Channel = LCH



Date: 30.NOV.2017 11:15:59

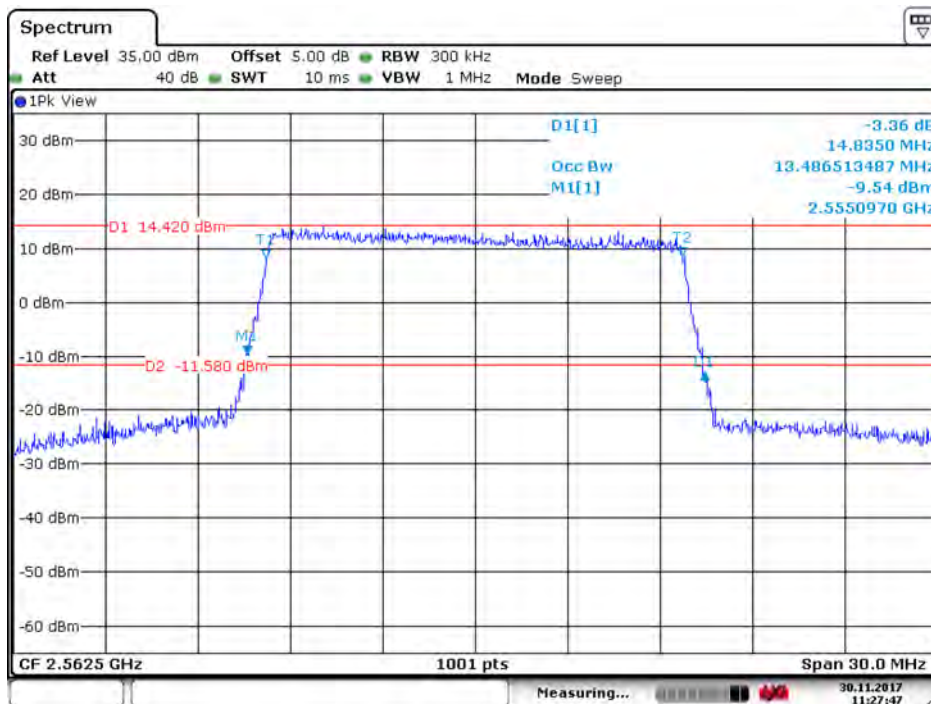


4.1.1.9.2 Test Channel = MCH



Date: 30.NOV.2017 11:17:31

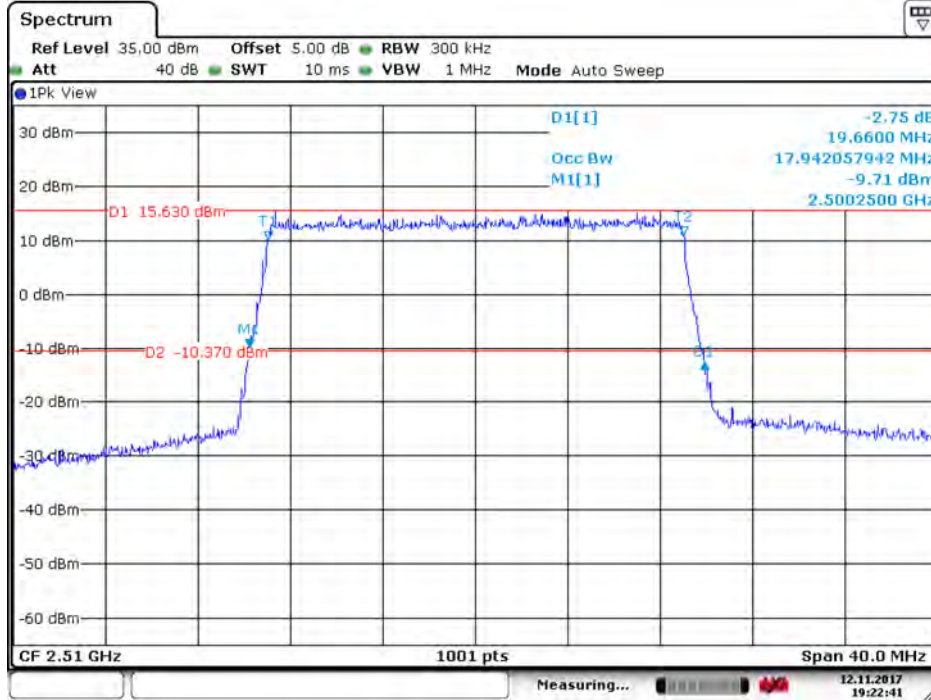
4.1.1.9.3 Test Channel = HCH



Date: 30.NOV.2017 11:27:47

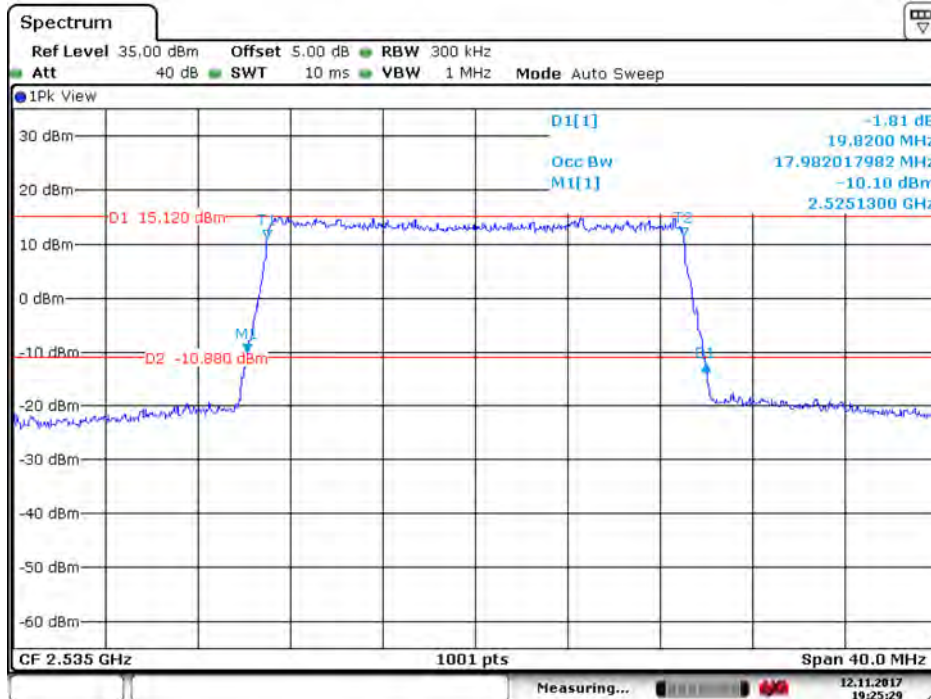
4.1.1.10 Test Mode = LTE/TM1 20MHz

4.1.1.10.1 Test Channel = LCH



Date: 12.NOV.2017 19:22:41

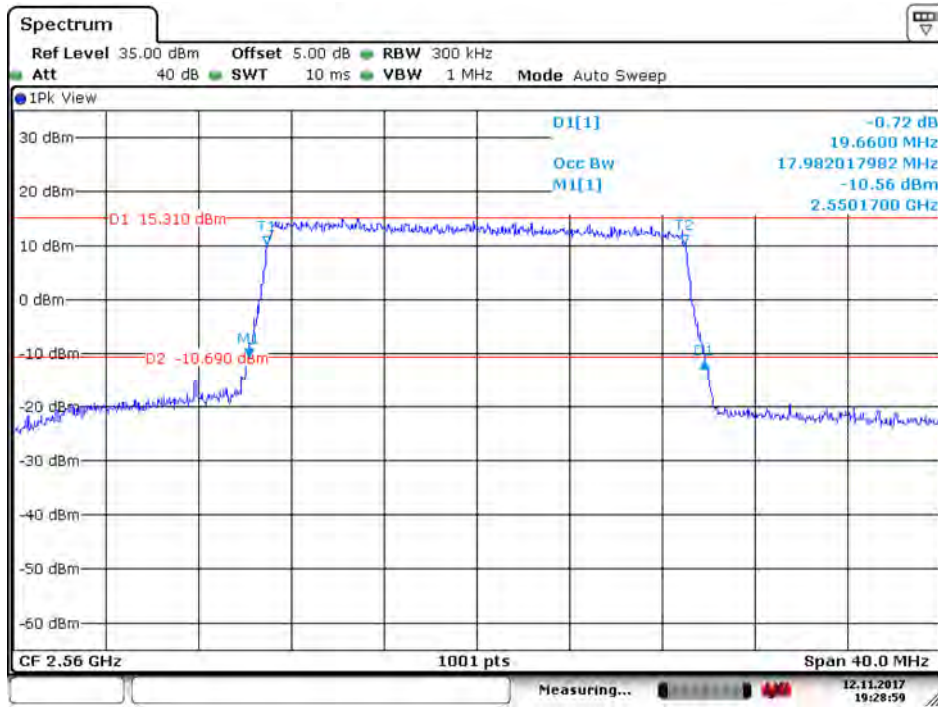
4.1.1.10.2 Test Channel = MCH



Date: 12.NOV.2017 19:25:29



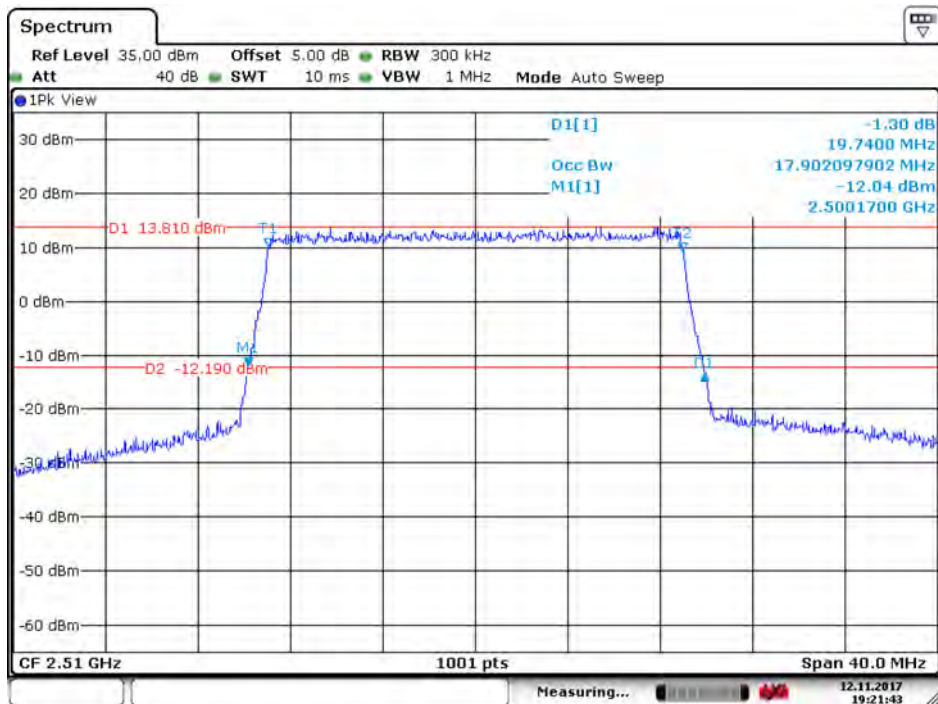
4.1.1.10.3 Test Channel = HCH



Date: 12.NOV.2017 19:29:00

4.1.1.11 Test Mode = LTE/TM2 20MHz

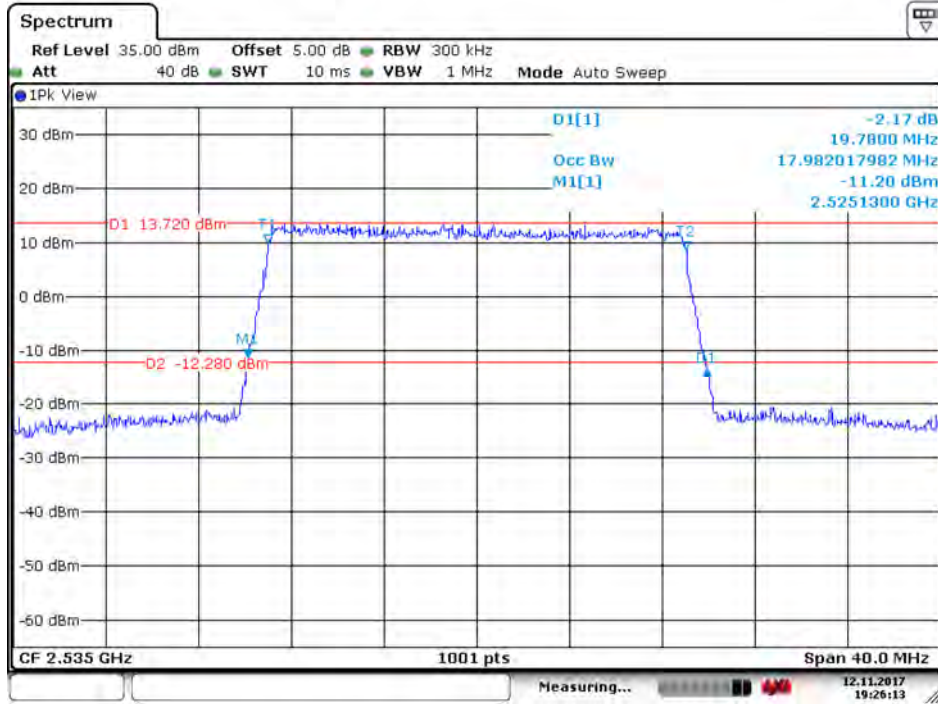
4.1.1.11.1 Test Channel = LCH



Date: 12.NOV.2017 19:21:43

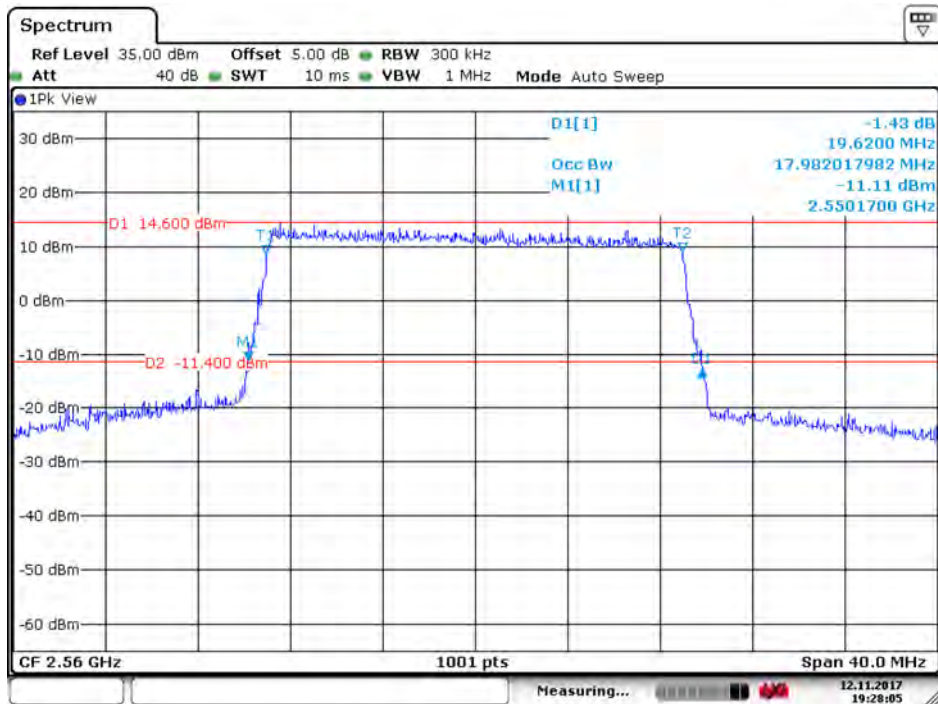


4.1.1.11.2 Test Channel = MCH



Date: 12.NOV.2017 19:26:14

4.1.1.11.3 Test Channel = HCH

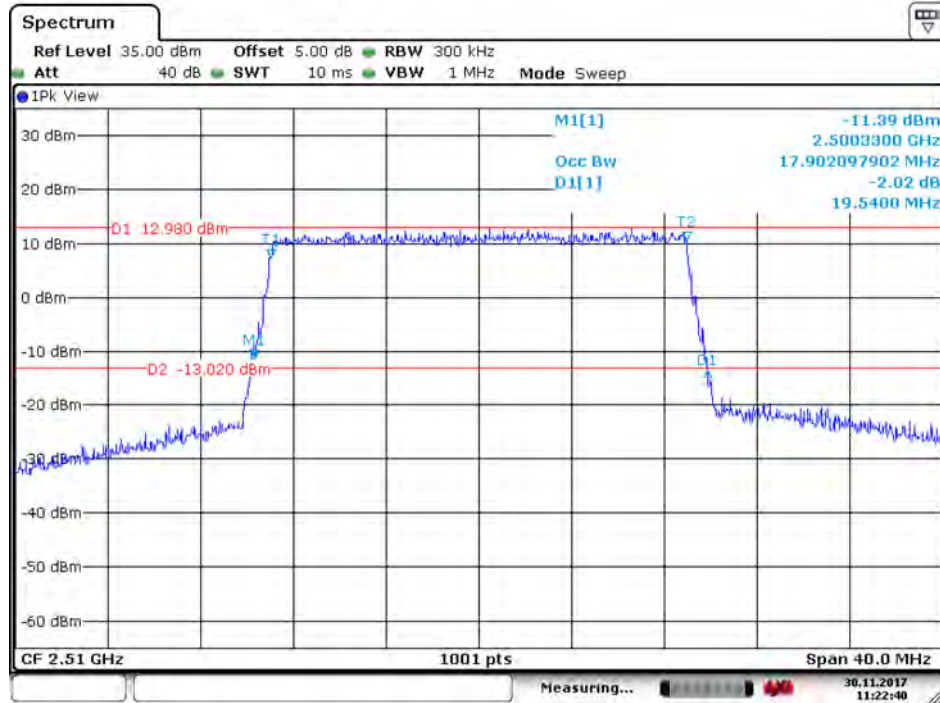


Date: 12.NOV.2017 19:28:05



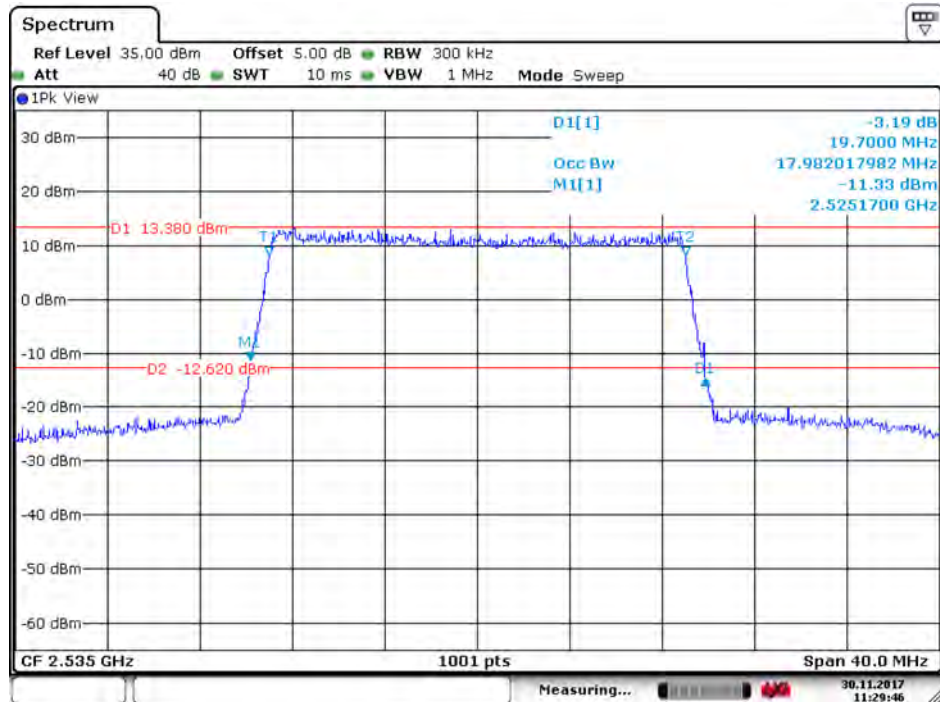
4.1.1.12 Test Mode = LTE/TM3 20MHz

4.1.1.12.1 Test Channel = LCH



Date: 30.NOV.2017 11:22:40

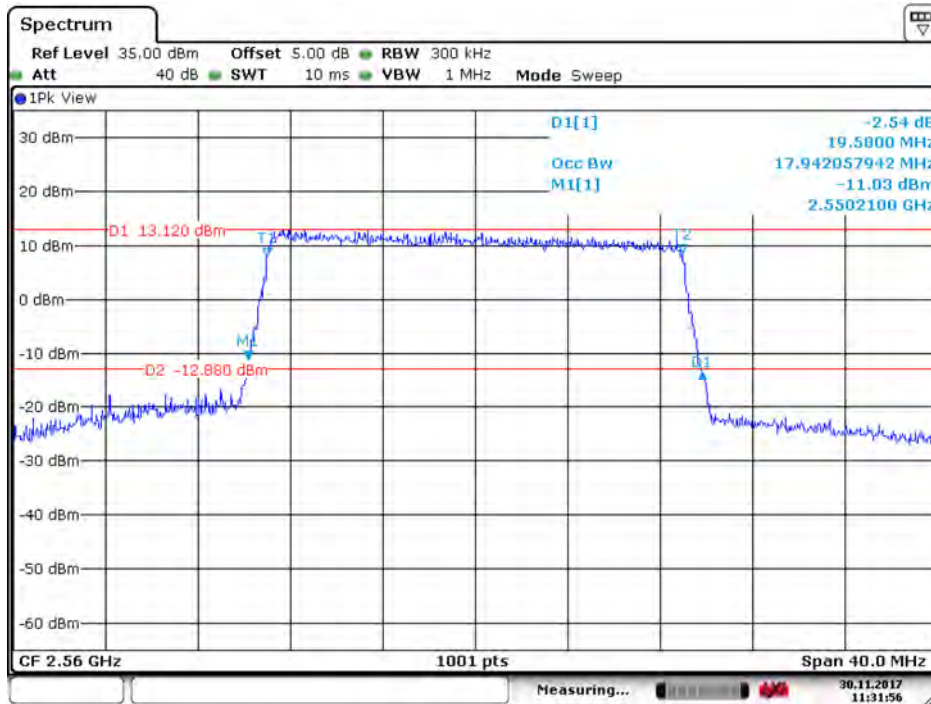
4.1.1.12.2 Test Channel = MCH



Date: 30.NOV.2017 11:29:46



4.1.1.12.3 Test Channel = HCH



Date: 30.NOV.2017 11:31:56

5 Band Edges Compliance

Part I –

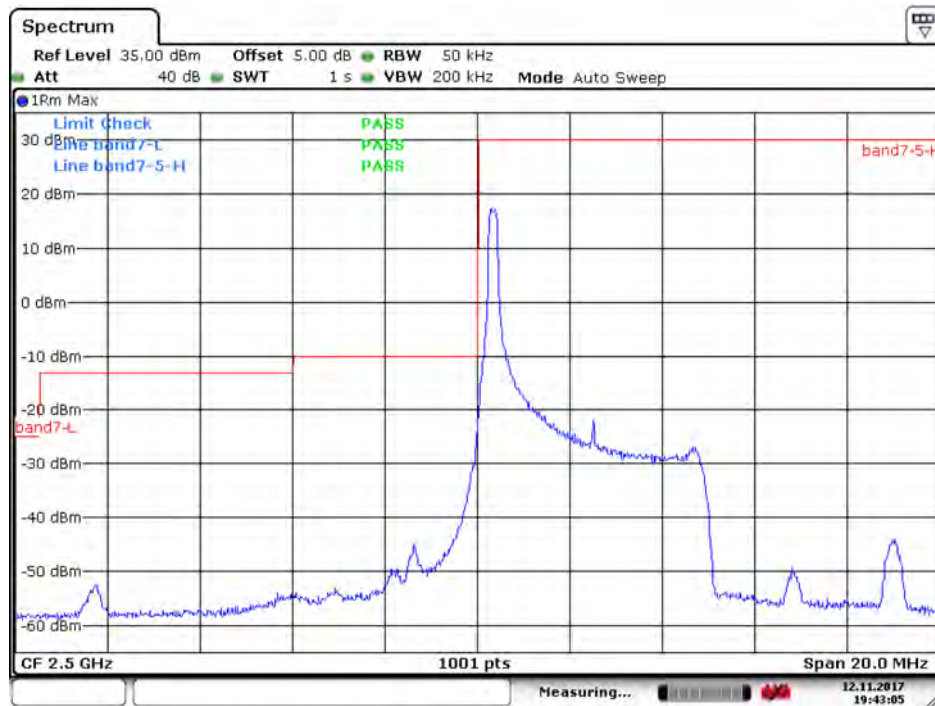
5.1 For LTE

5.1.1 Test Band = LTE band7

5.1.1.1 Test Mode = LTE/TM1 5MHz

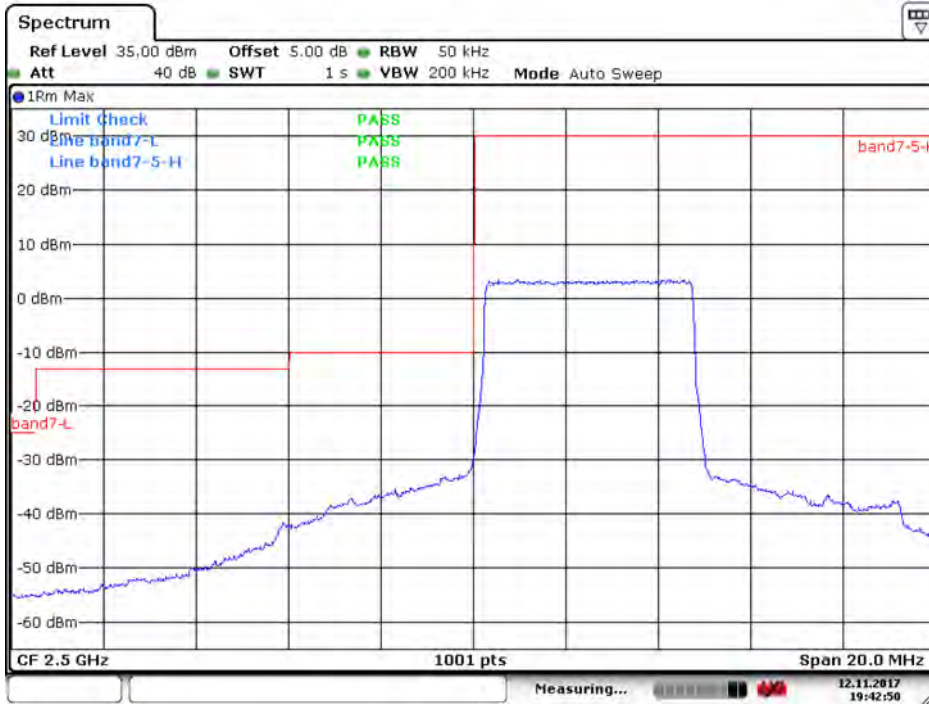
5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB



Date: 12.NOV.2017 19:43:05

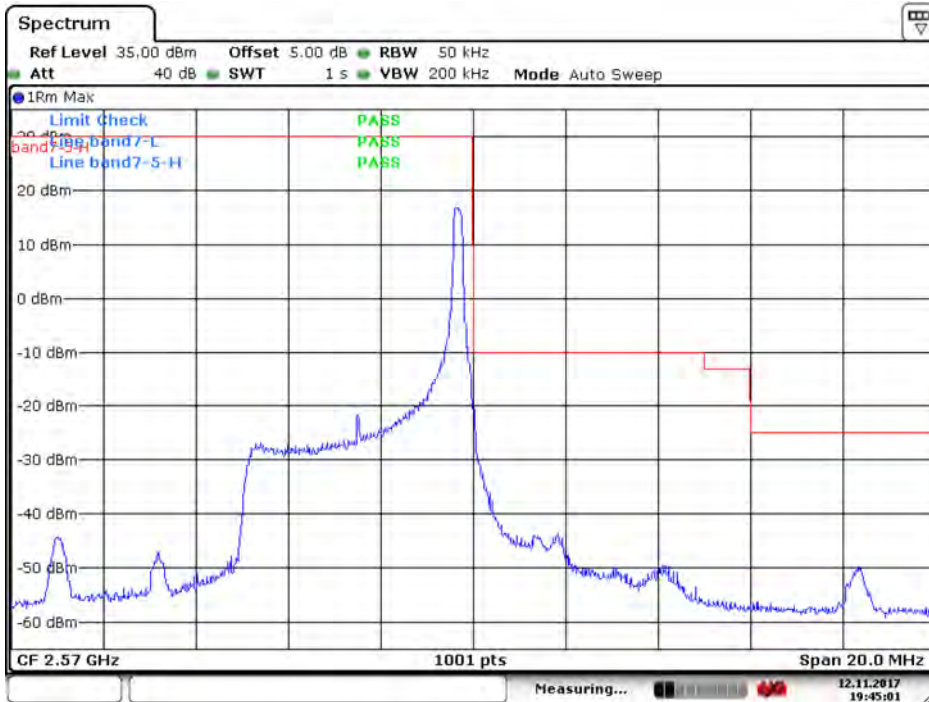
5.1.1.1.2 Test RB=25RB



Date: 12.NOV.2017 19:42:51

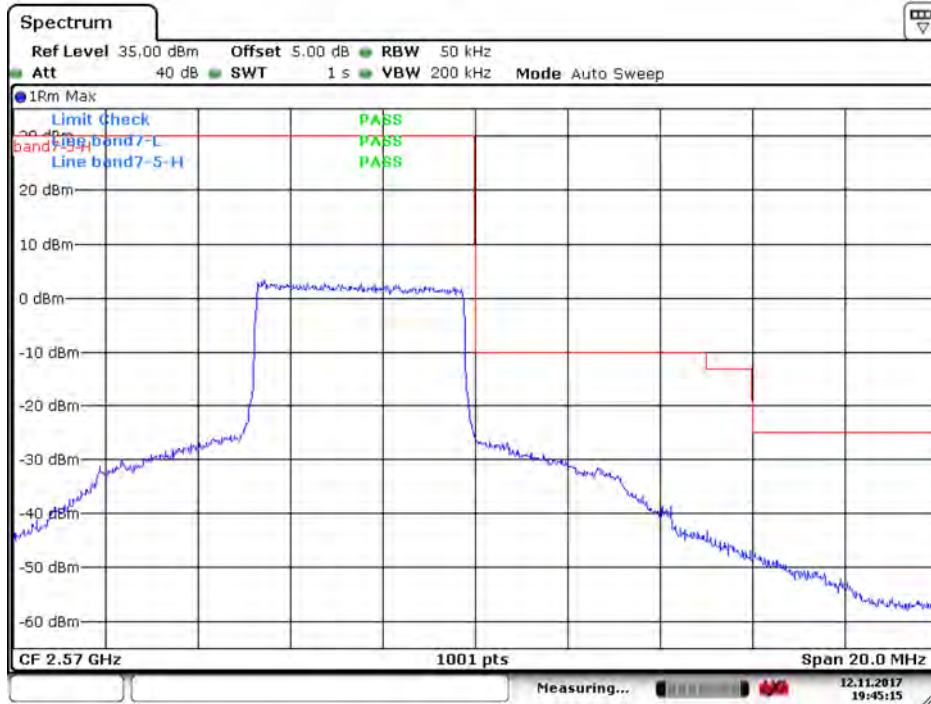
5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 12.NOV.2017 19:45:01

5.1.1.1.2.2 Test RB=25RB

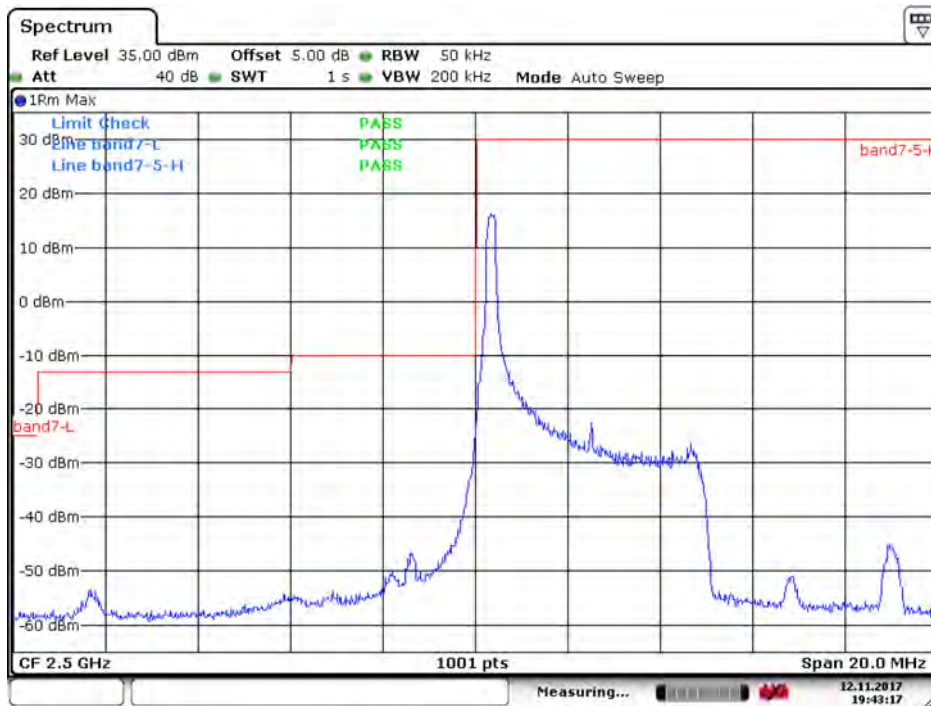


Date: 12.NOV.2017 19:45:15

5.1.1.2 Test Mode = LTE/TM2 5MHz

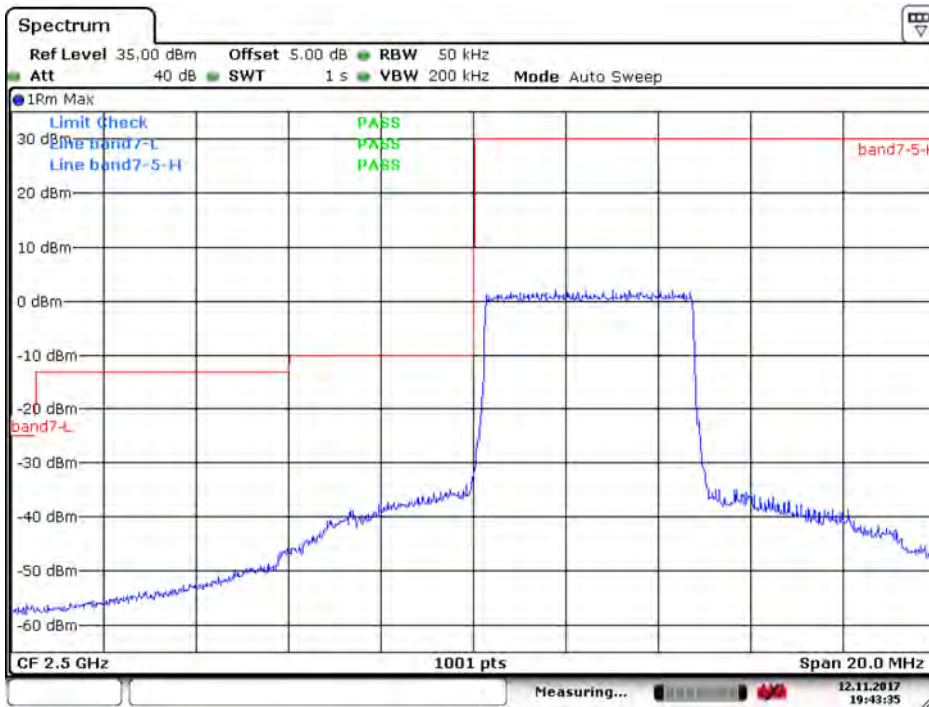
5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



Date: 12.NOV.2017 19:43:18

5.1.1.2.1.2 Test RB=25RB



Date: 12.NOV.2017 19:43:35

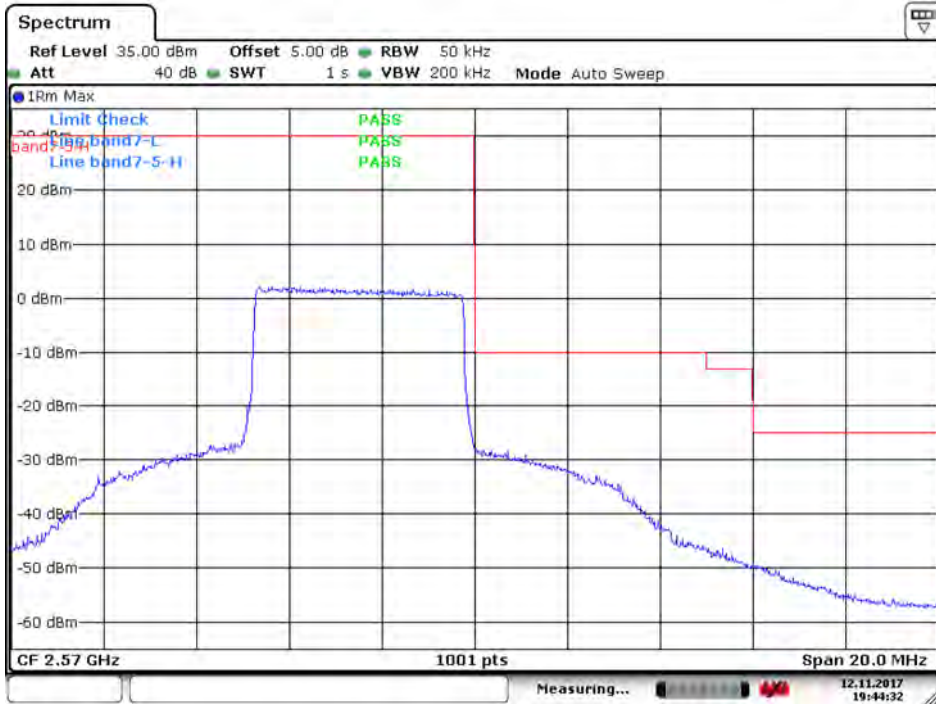
5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



Date: 12.NOV.2017 19:44:46

5.1.1.2.2 Test RB=25RB

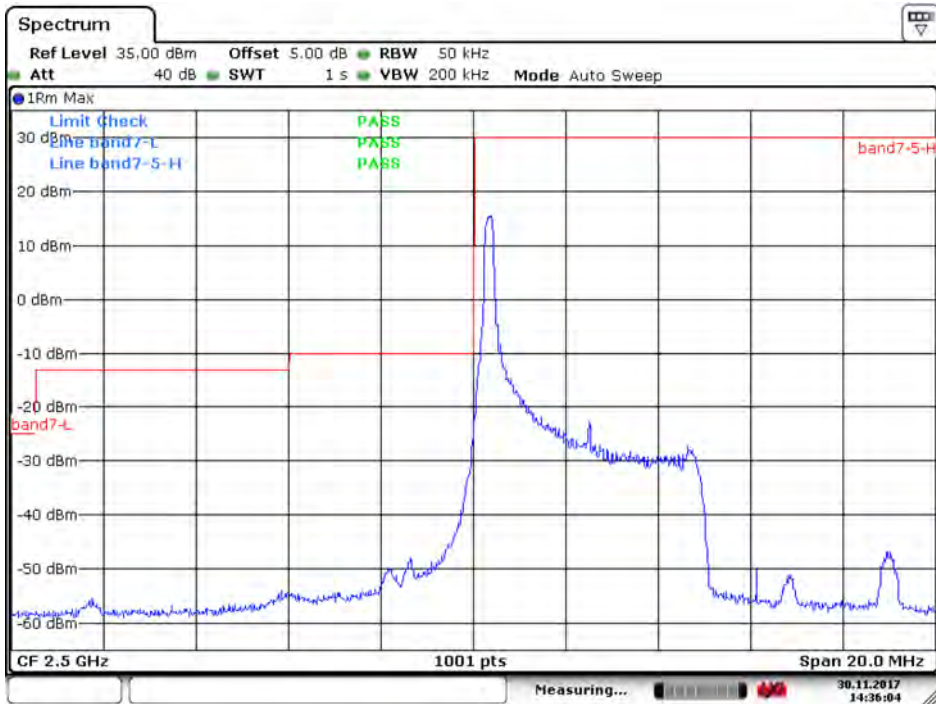


Date: 12.NOV.2017 19:44:32

5.1.1.3 Test Mode = LTE/TM3 5MHz

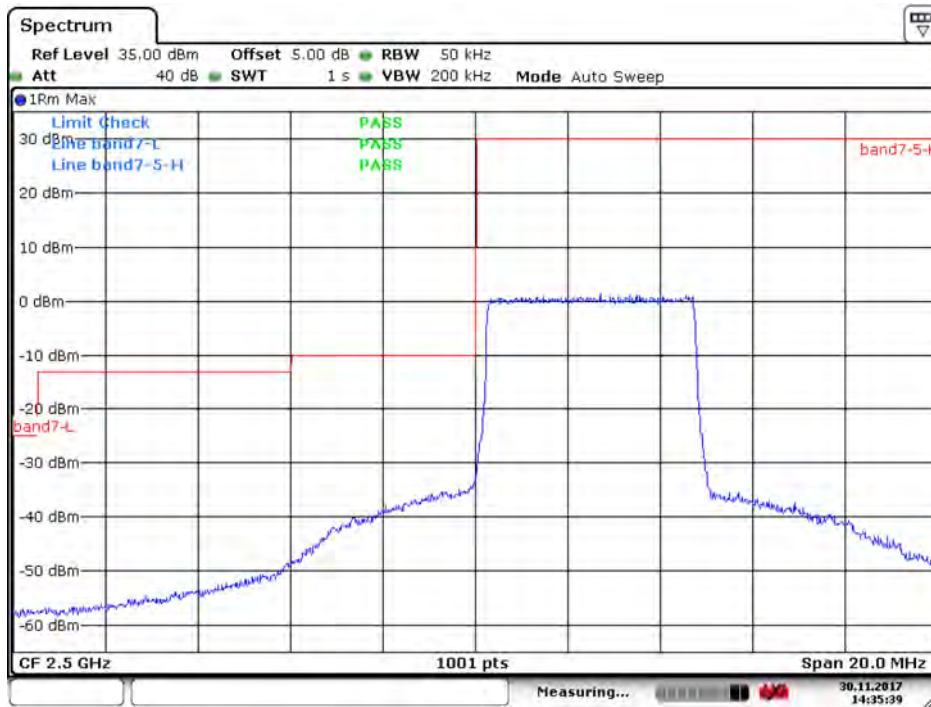
5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



Date: 30.NOV.2017 14:36:04

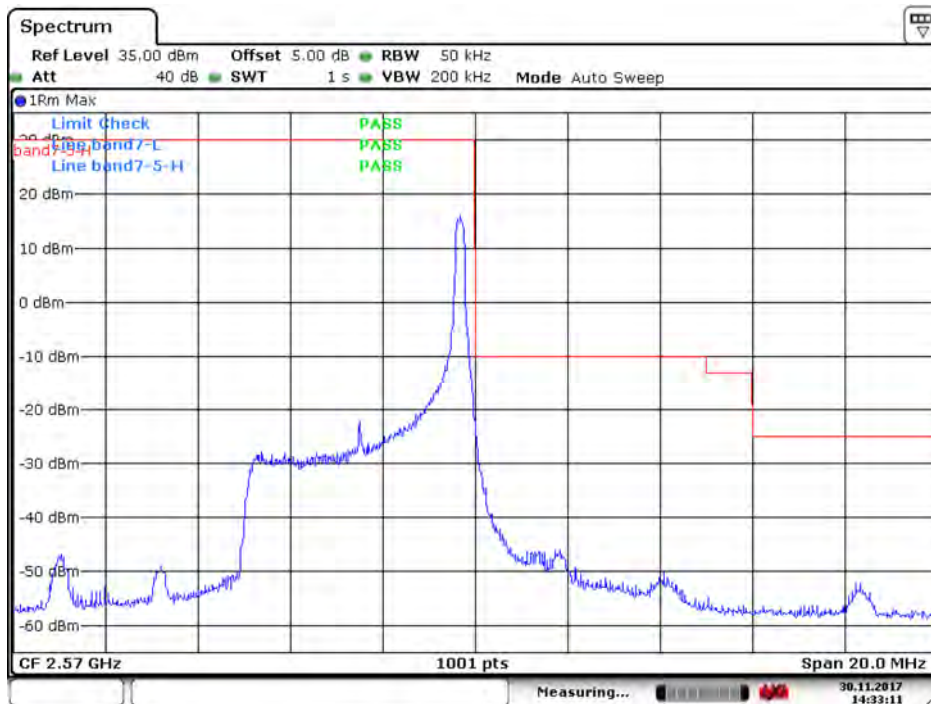
5.1.1.3.1.2 Test RB=25RB



Date: 30.NOV.2017 14:35:39

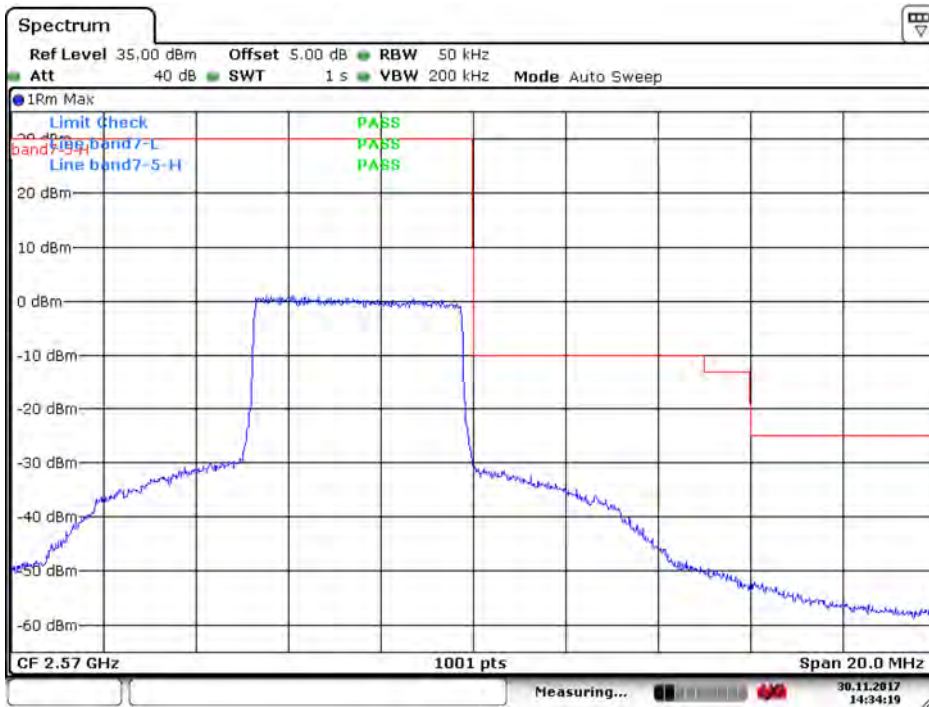
5.1.1.3.1 Test Channel = HCH

5.1.1.3.1.1 Test RB=1RB



Date: 30.NOV.2017 14:33:11

5.1.1.3.1.2 Test RB=25RB

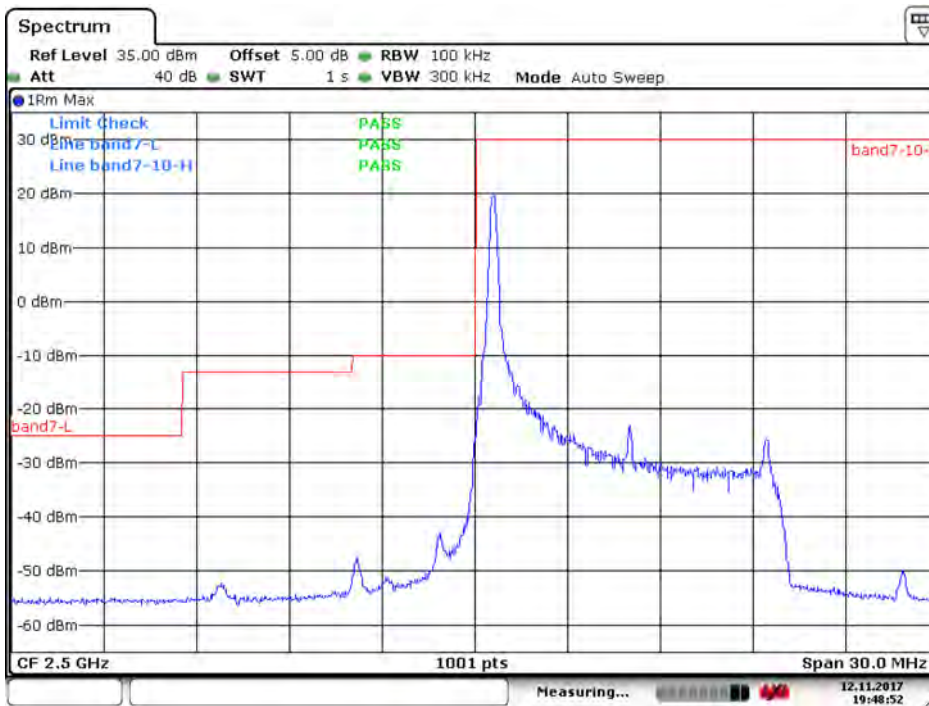


Date: 30.NOV.2017 14:34:19

5.1.1.4 Test Mode = LTE/TM1 10MHz

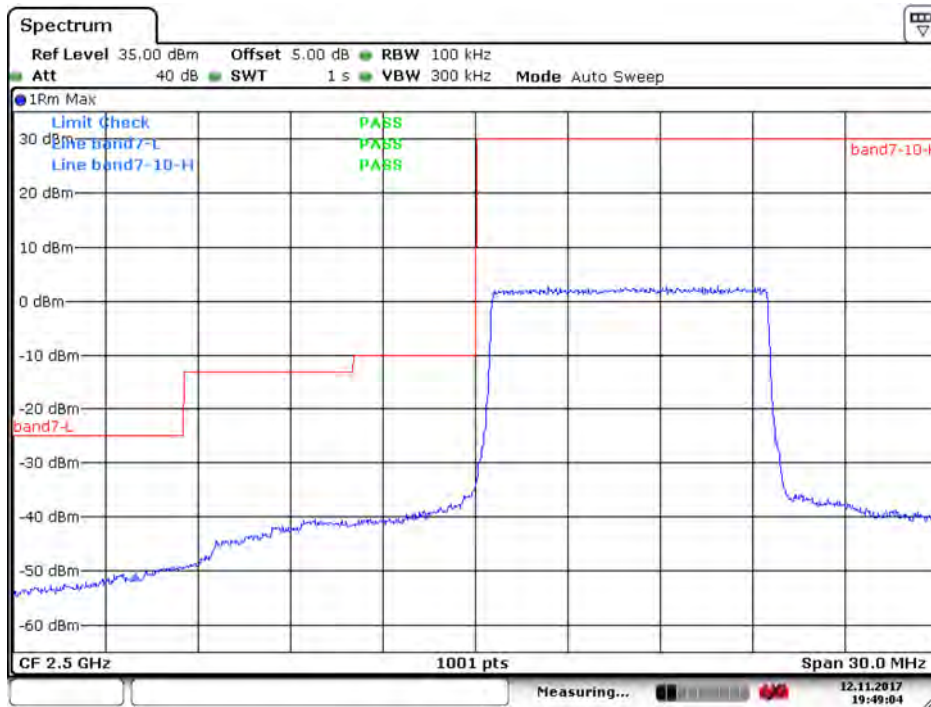
5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



Date: 12.NOV.2017 19:48:52

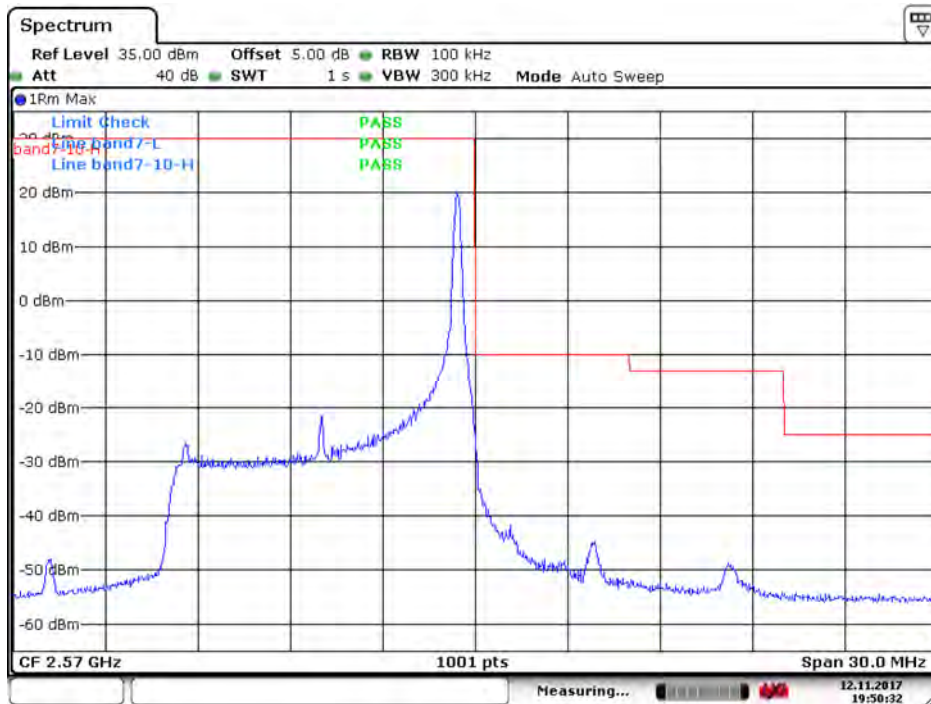
5.1.1.4.1.2 Test RB=50RB



Date: 12.NOV.2017 19:49:04

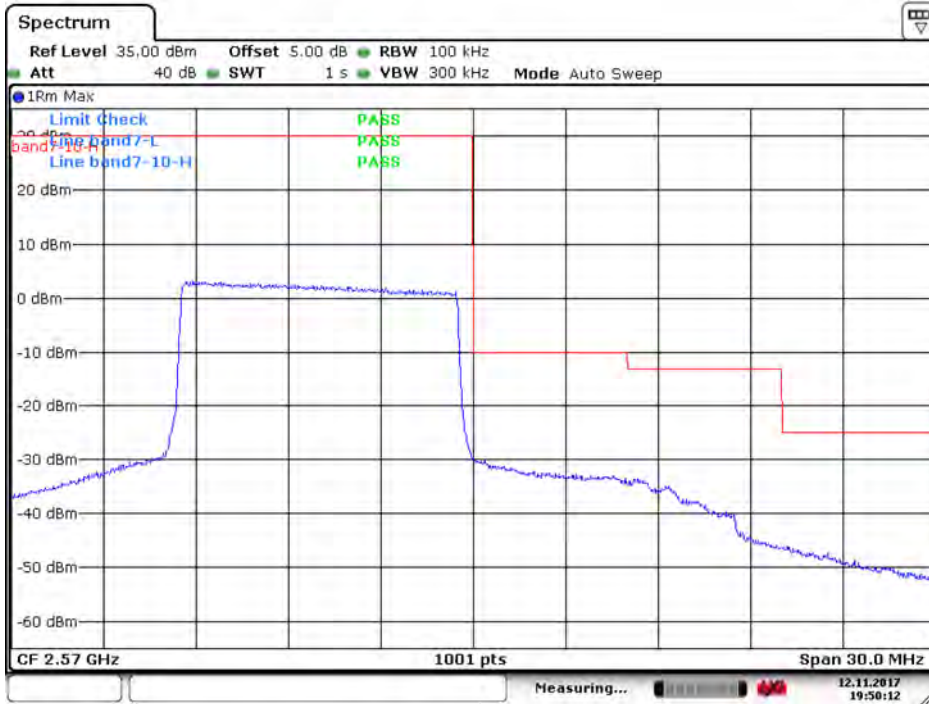
5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 12.NOV.2017 19:50:33

5.1.1.4.2.2 Test RB=50RB

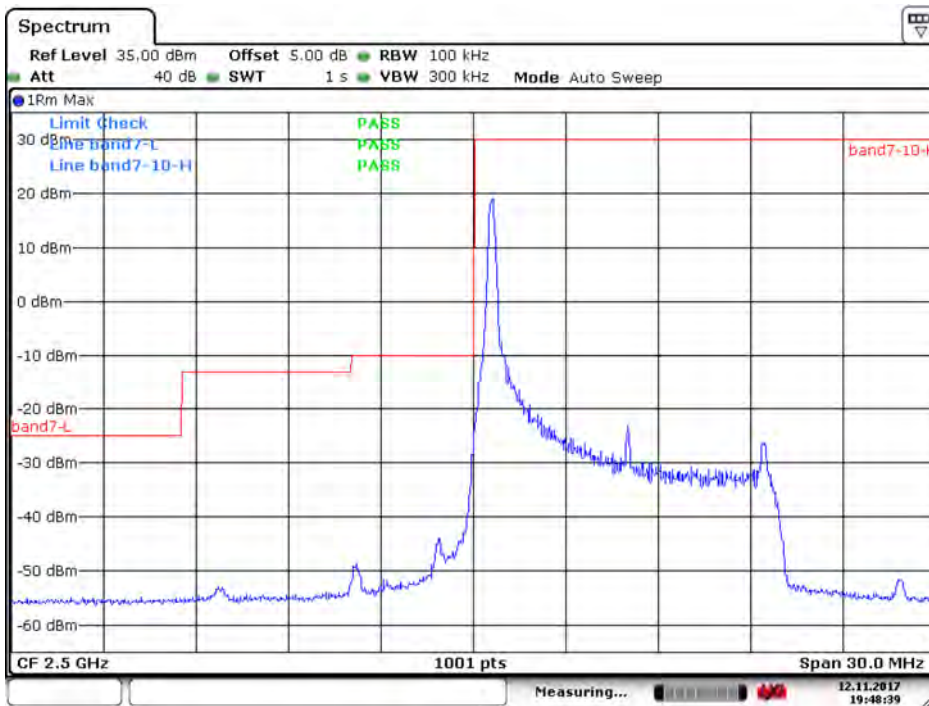


Date: 12.NOV.2017 19:50:13

5.1.1.5 Test Mode = LTE/TM2 10MHz

5.1.1.5.1 Test Channel = LCH

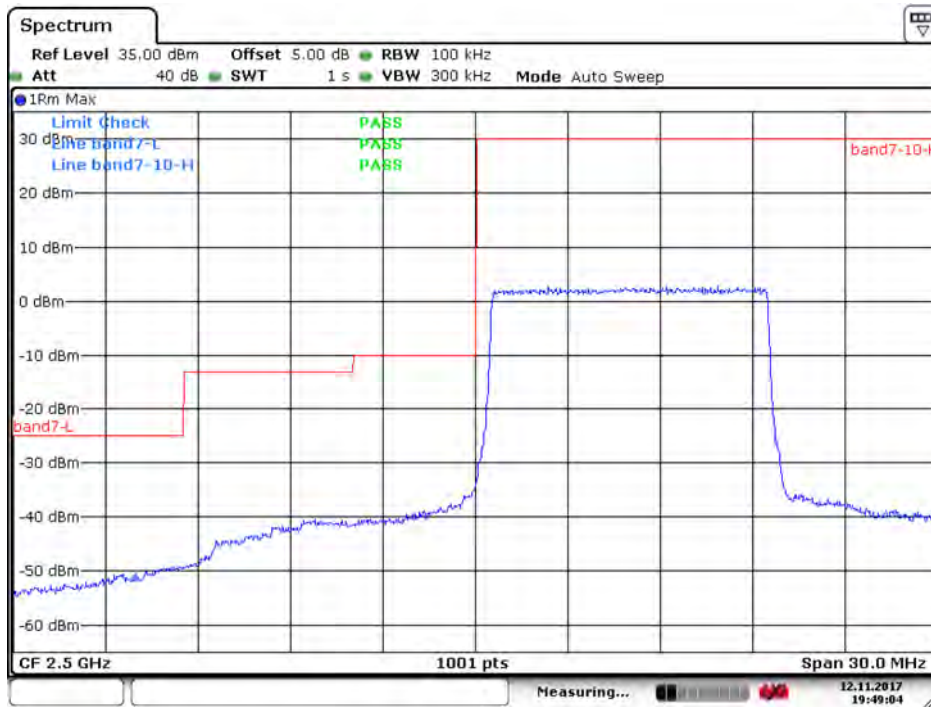
5.1.1.5.1.1 Test RB=1RB



Date: 12.NOV.2017 19:48:39



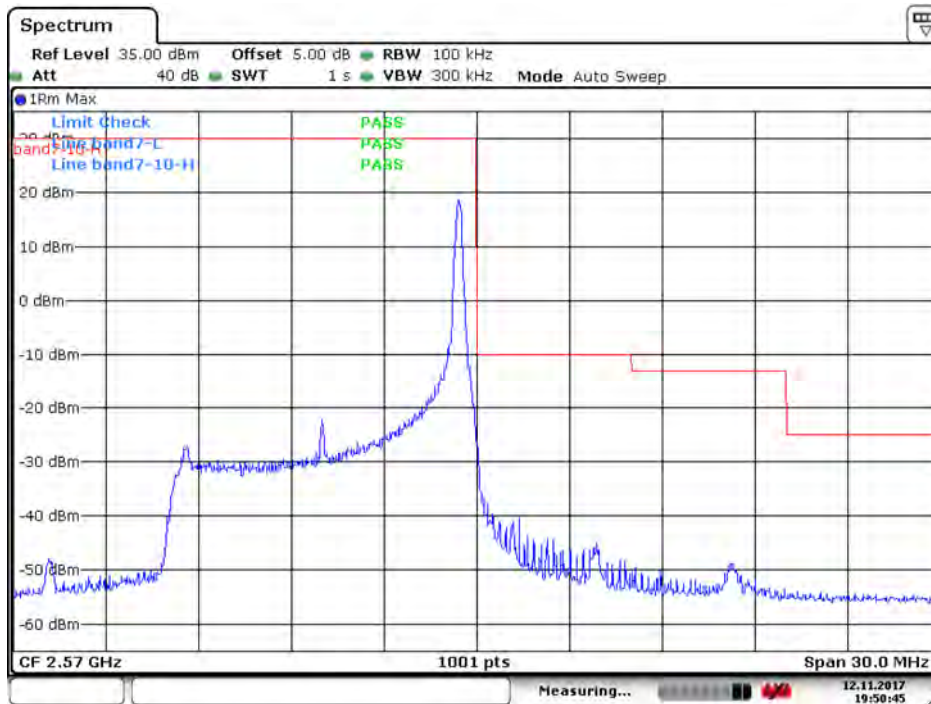
5.1.1.5.1.2 Test RB=50RB



Date: 12.NOV.2017 19:49:04

5.1.1.5.2 Test Channel = HCH

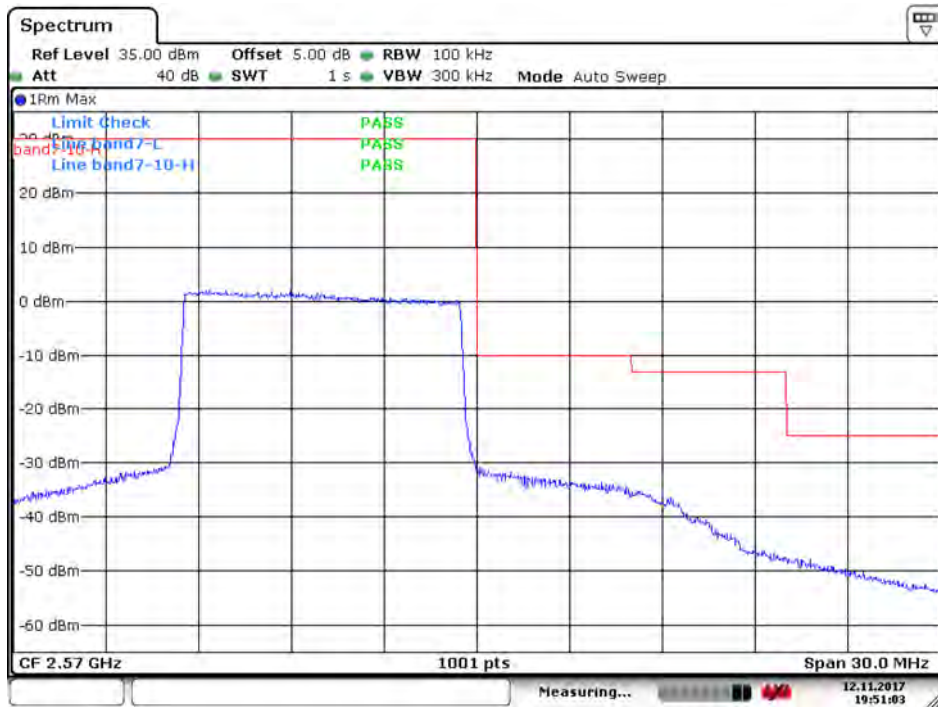
5.1.1.5.2.1 Test RB=1RB



Date: 12.NOV.2017 19:50:46



5.1.1.5.2.2 Test RB=50RB

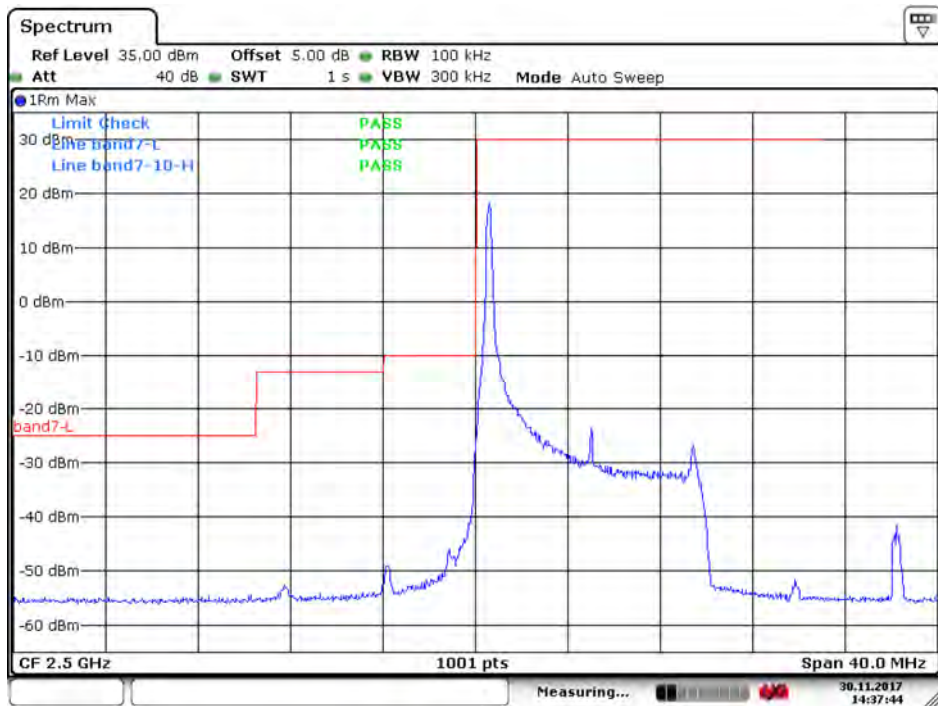


Date: 12.NOV.2017 19:51:04

5.1.1.6 Test Mode = LTE/TM3 10MHz

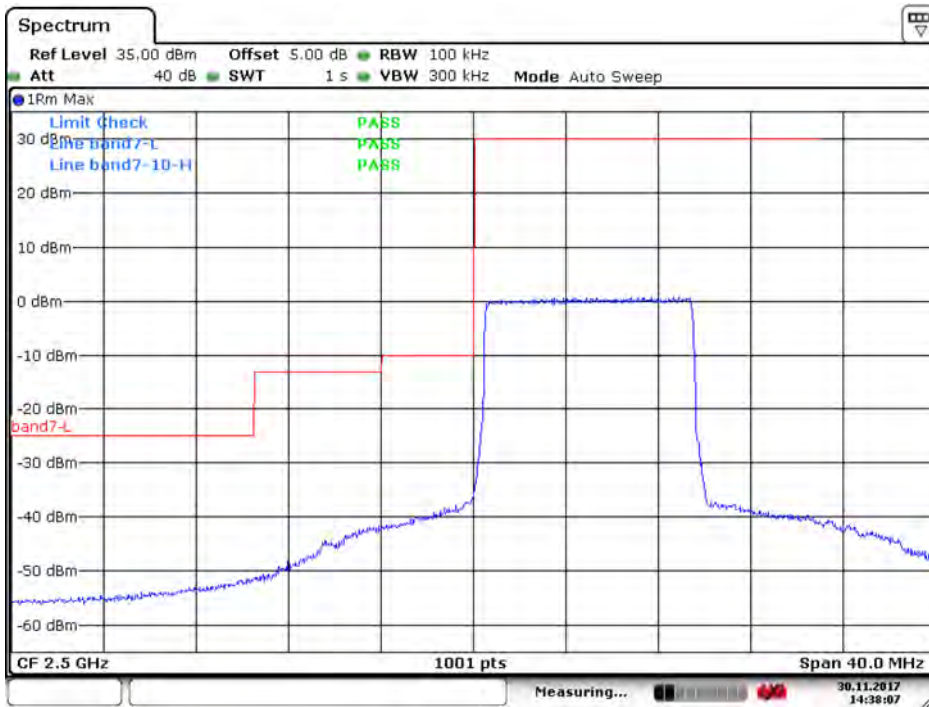
5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



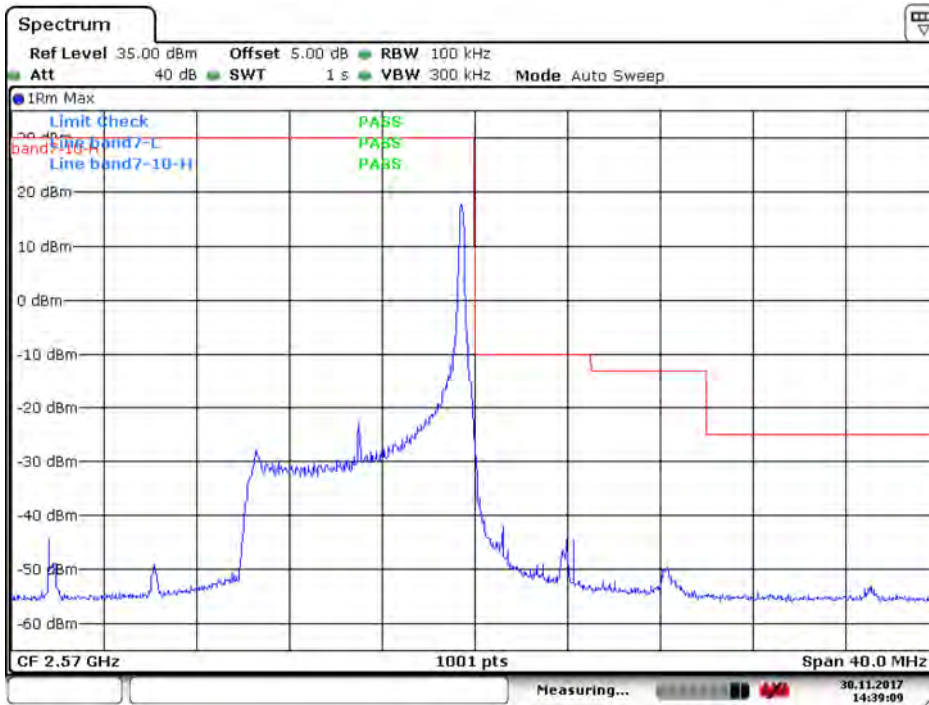
Date: 30.NOV.2017 14:37:44

5.1.1.6.1.2 Test RB=50RB



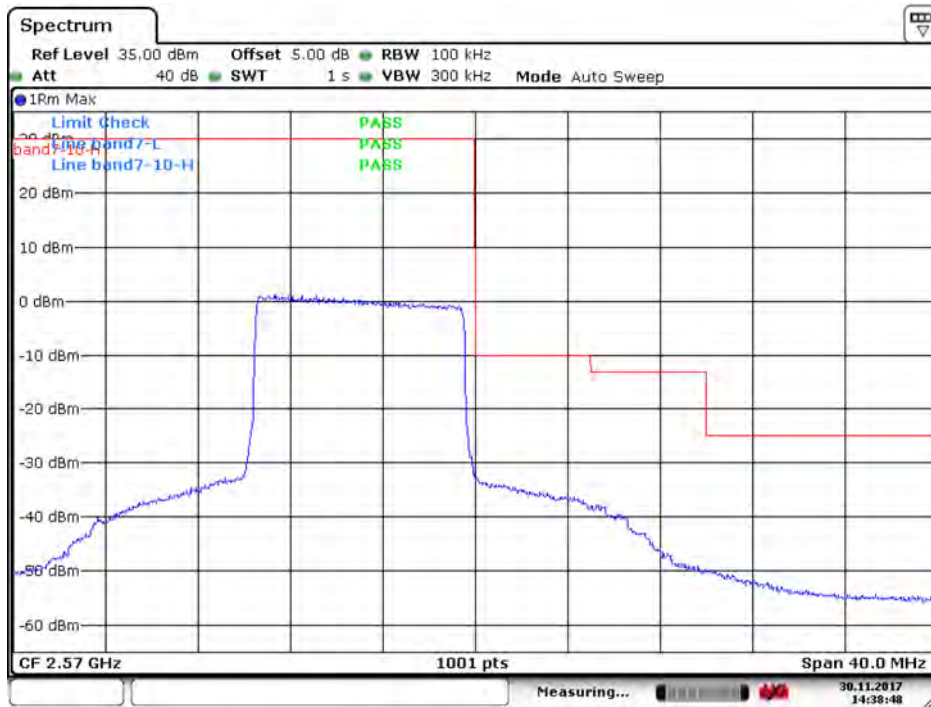
5.1.1.6.1 Test Channel = HCH

5.1.1.6.1.1 Test RB=1RB





5.1.1.6.1.2 Test RB=50RB

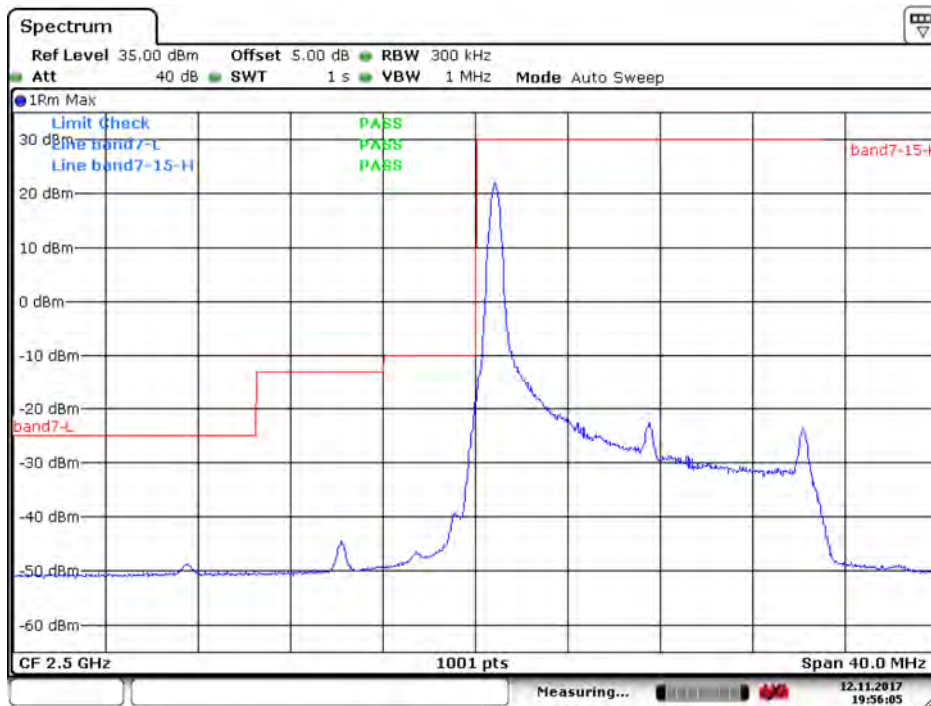


Date: 30.NOV.2017 14:38:49

5.1.1.7 Test Mode = LTE/TM1 15MHz

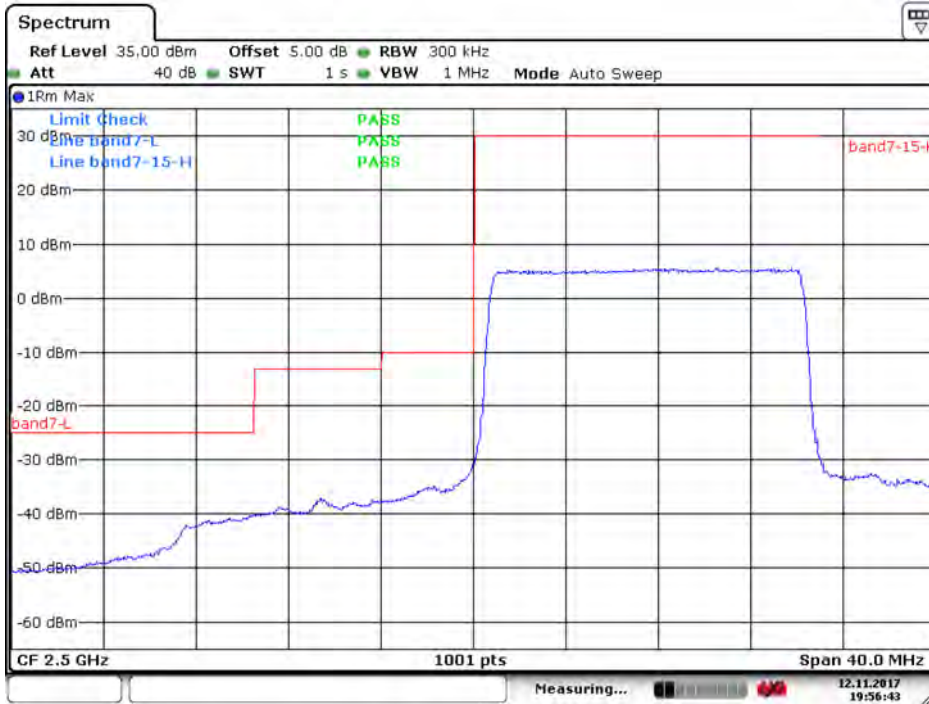
5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 12.NOV.2017 19:56:05

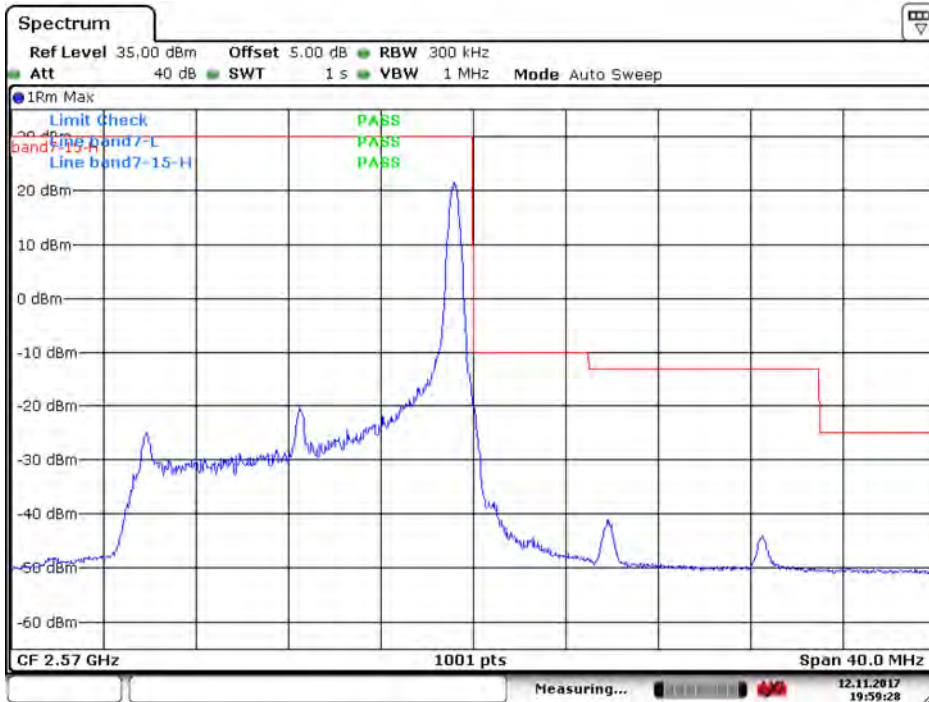
5.1.1.7.1.2 Test RB=75RB



Date: 12.NOV.2017 19:56:44

5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 12.NOV.2017 19:59:28



5.1.1.7.2.2 Test RB=75RB

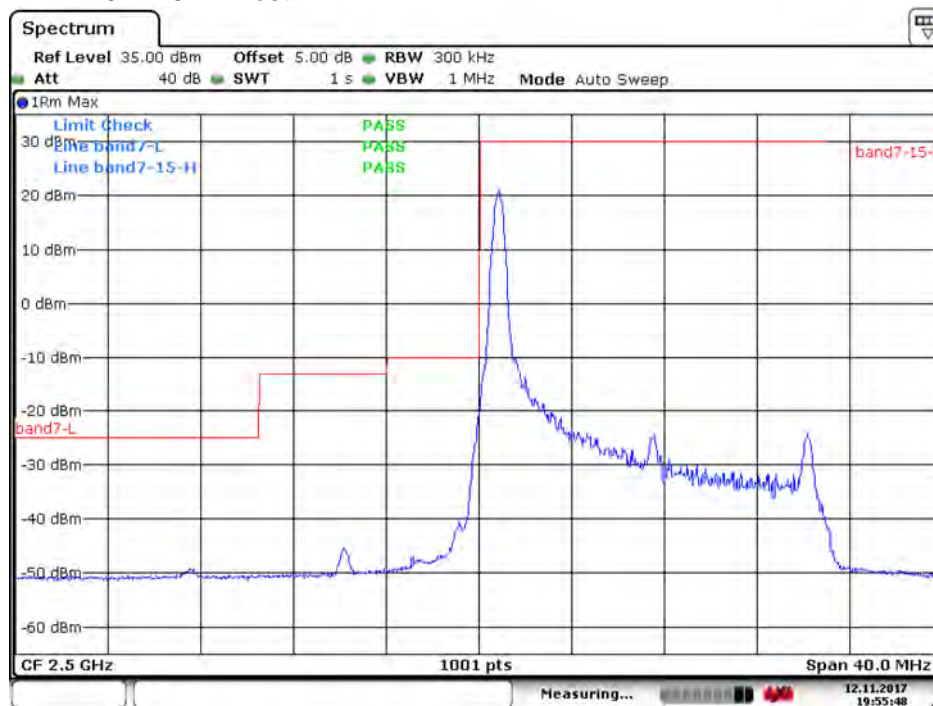


Date: 12.NOV.2017 19:59:13

5.1.1.8 Test Mode = LTE/TM2 15MHz

5.1.1.8.1 Test Channel = LCH

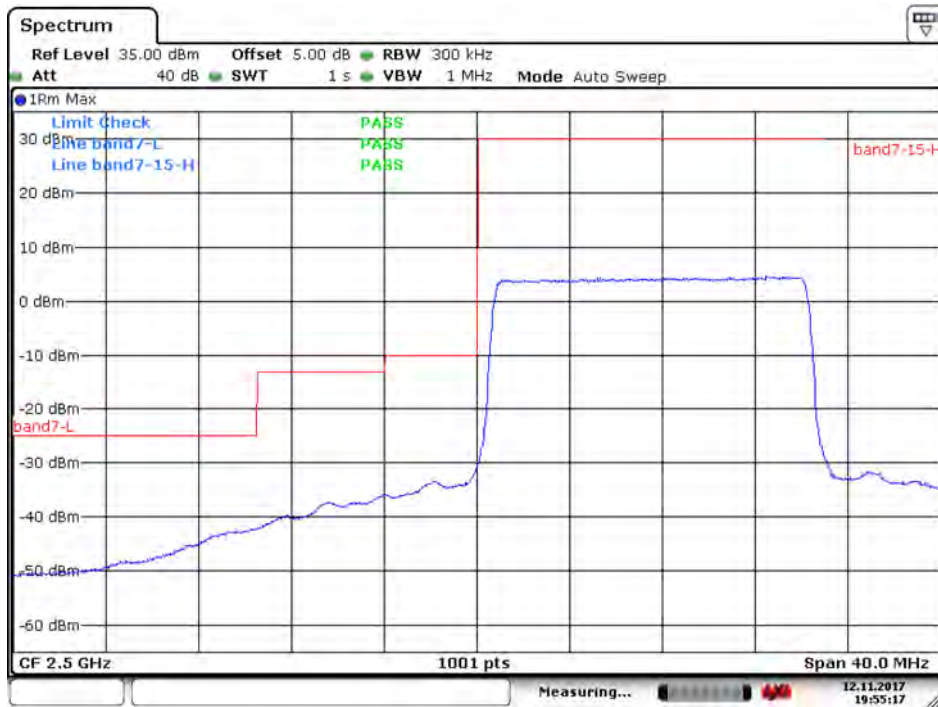
5.1.1.8.1.1 Test RB=1RB



Date: 12.NOV.2017 19:55:48



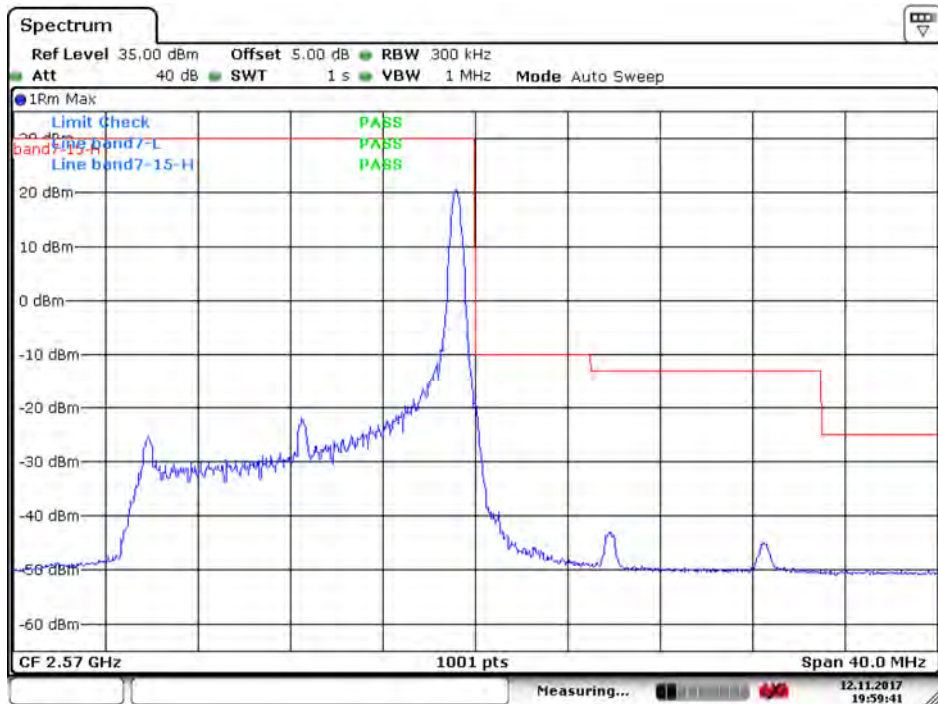
5.1.1.8.1.2 Test RB=75RB



Date: 12.NOV.2017 19:55:17

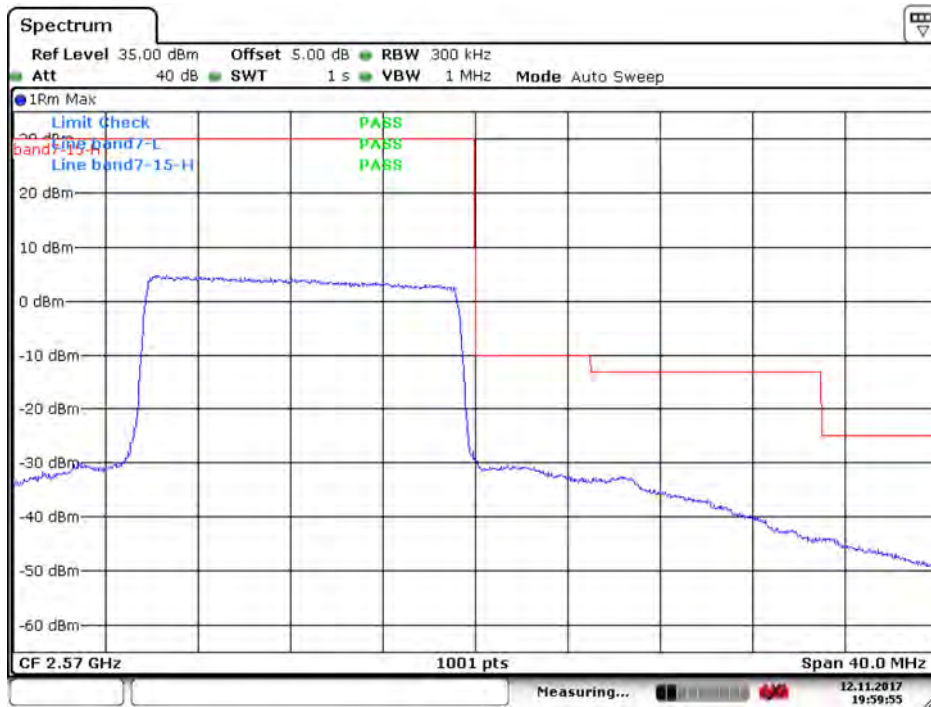
5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 12.NOV.2017 19:59:41

5.1.1.8.2.2 Test RB=75RB

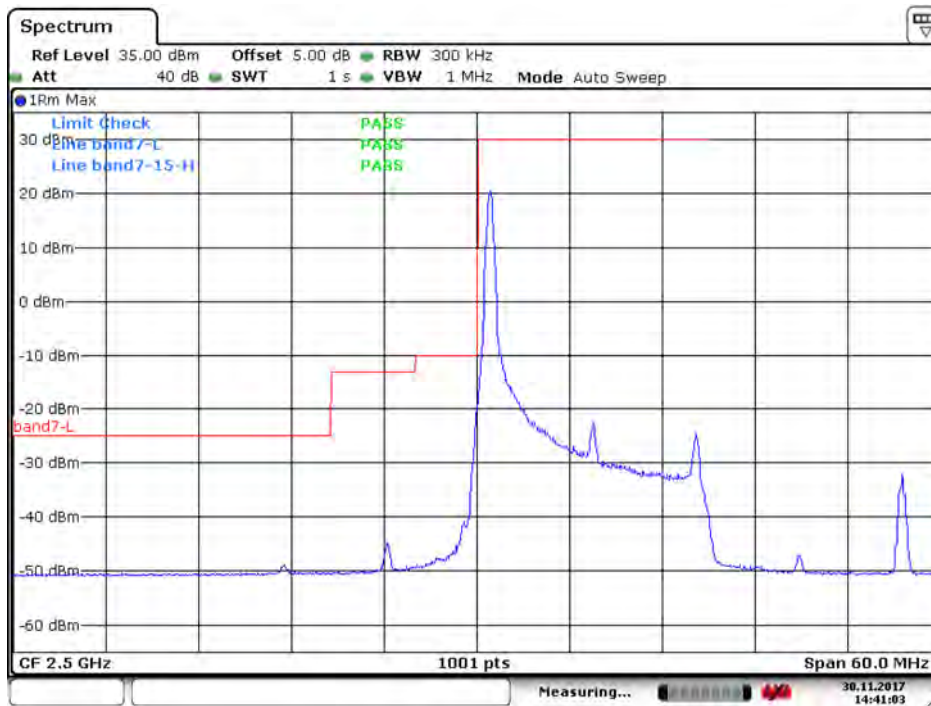


Date: 12.NOV.2017 19:59:55

5.1.1.9 Test Mode = LTE/TM3 15MHz

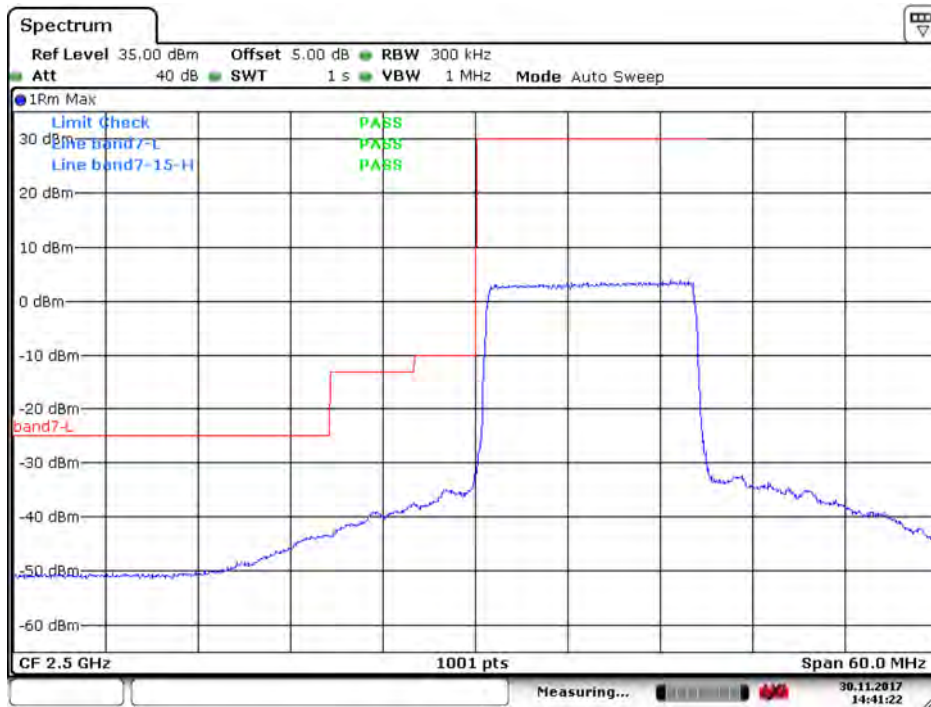
5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 30.NOV.2017 14:41:04

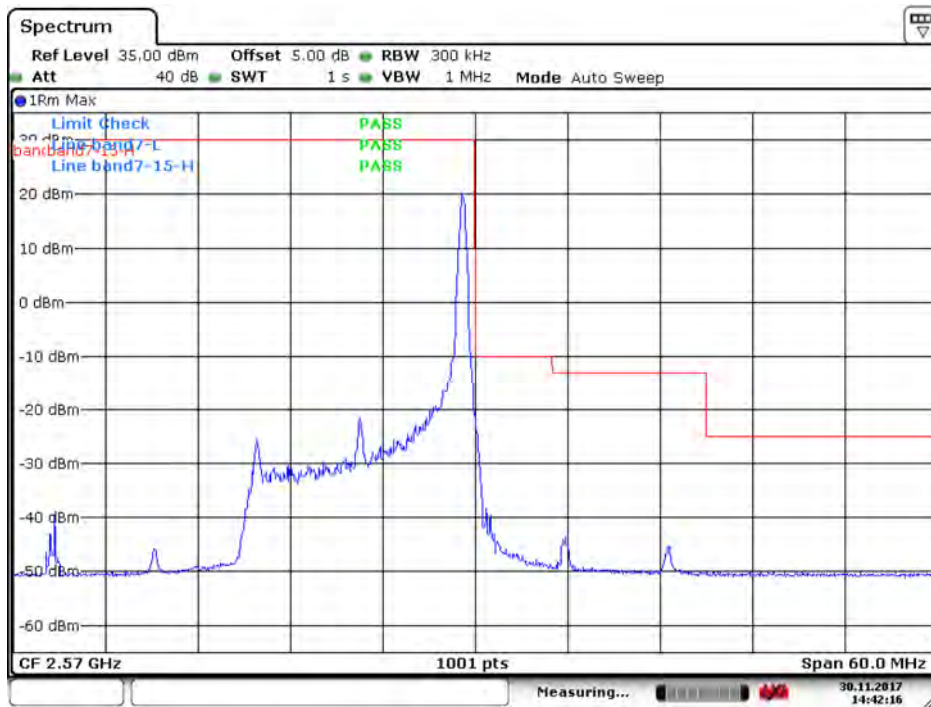
5.1.1.9.1.2 Test RB=75RB



Date: 30.NOV.2017 14:41:23

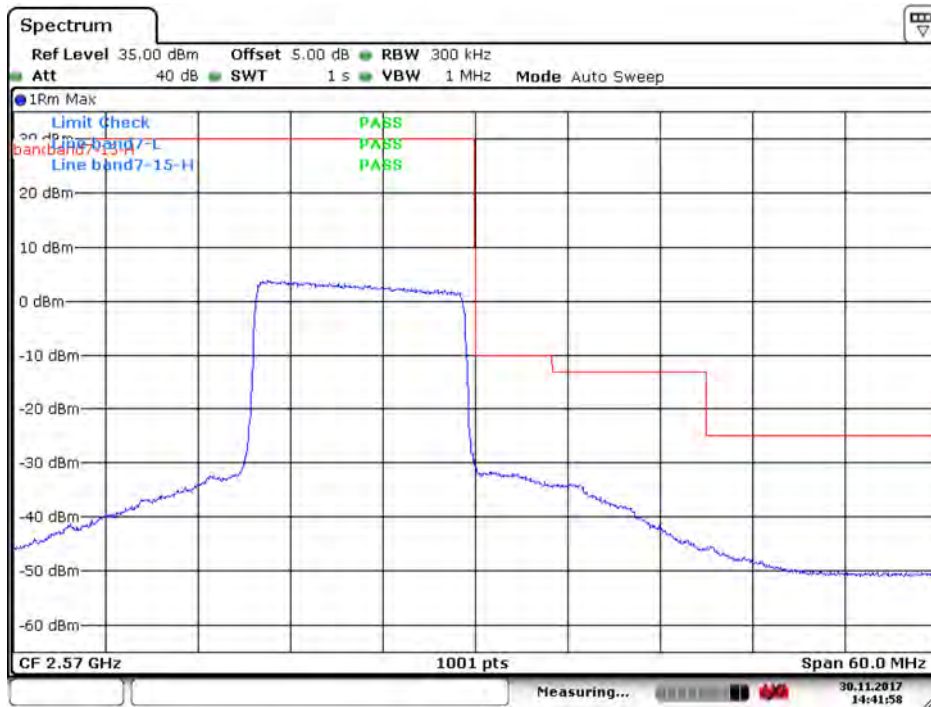
5.1.1.9.1 Test Channel = HCH

5.1.1.9.1.1 Test RB=1RB



Date: 30.NOV.2017 14:42:16

5.1.1.9.1.2 Test RB=75RB

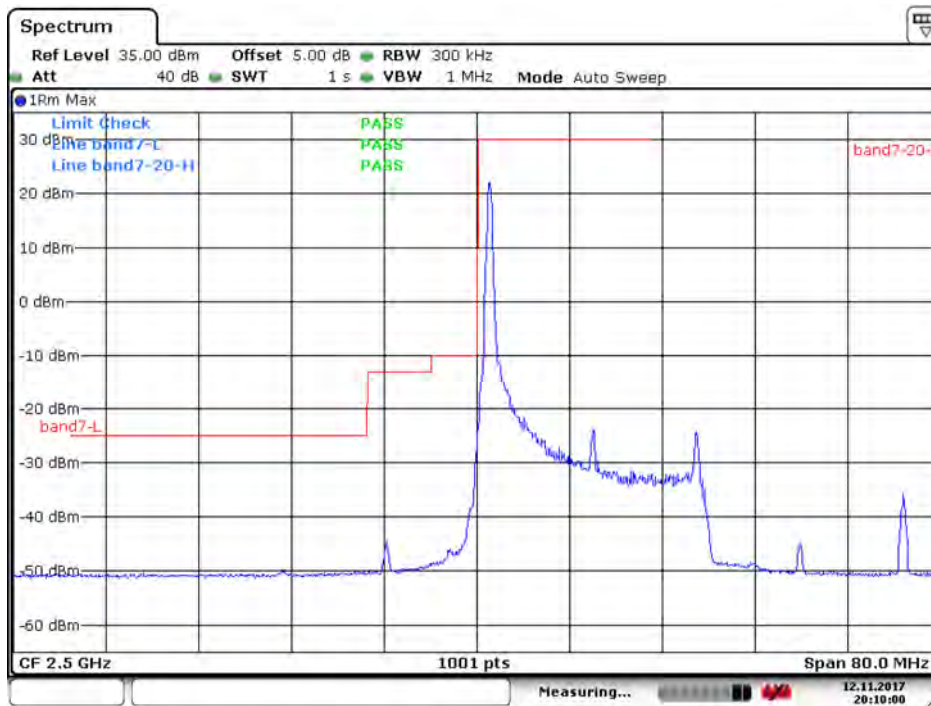


Date: 30.NOV.2017 14:41:58

5.1.1.10 Test Mode = LTE/TM1 20MHz

5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



Date: 12.NOV.2017 20:10:01



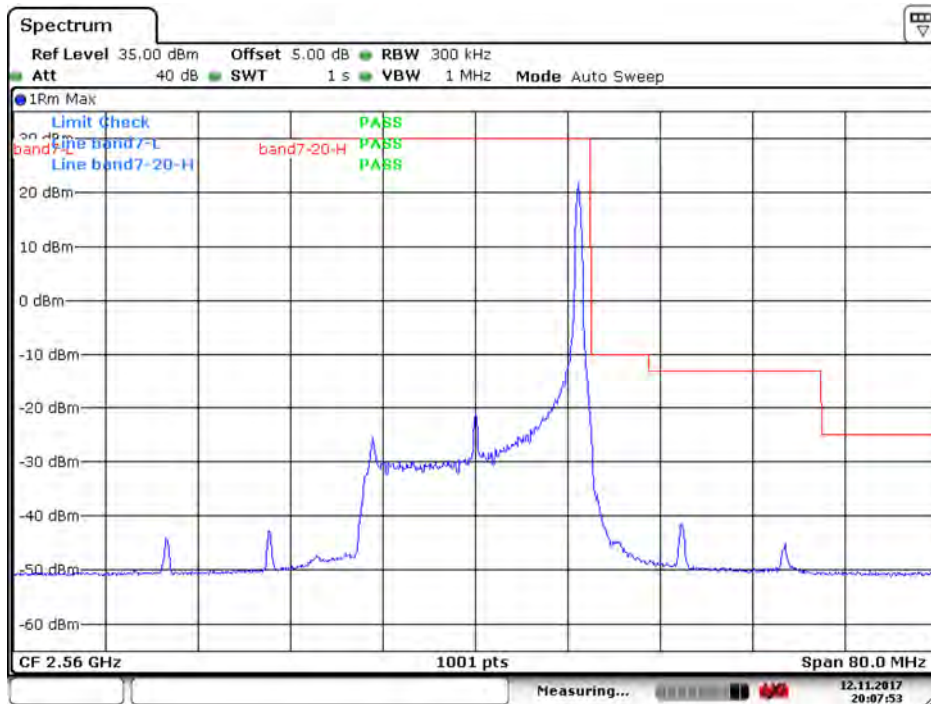
5.1.1.10.1.2 Test RB=100RB



Date: 12.NOV.2017 20:09:31

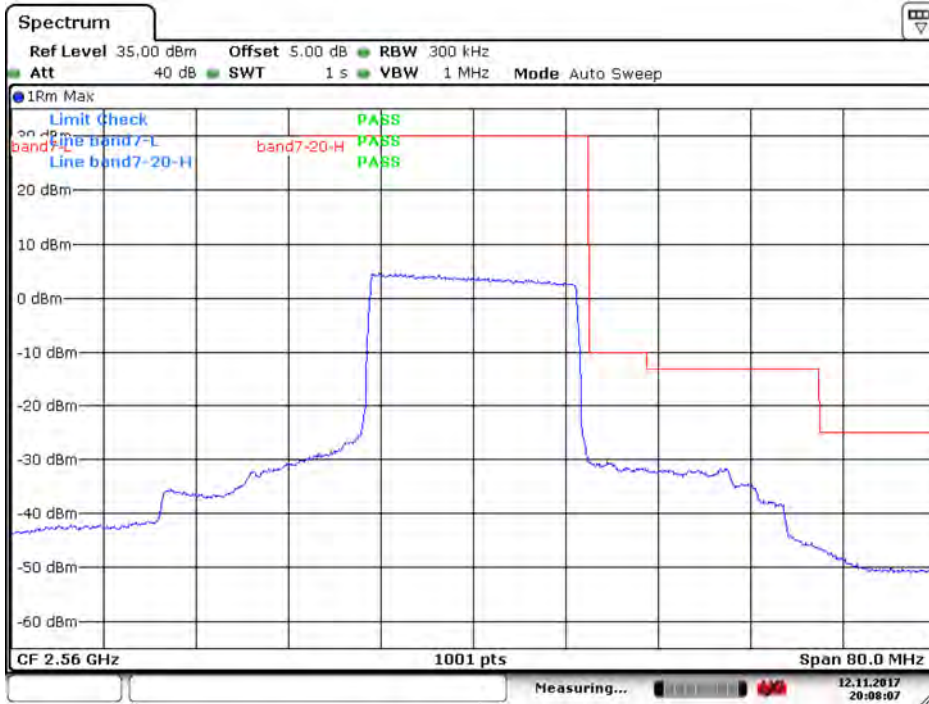
5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 12.NOV.2017 20:07:53

5.1.1.10.2.2 Test RB=100RB

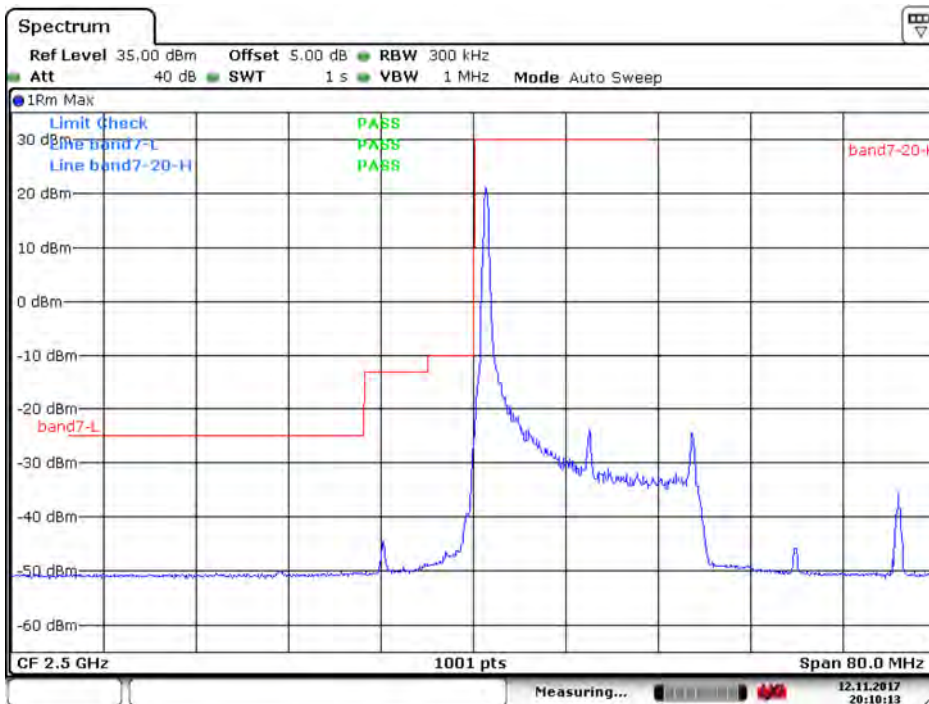


Date: 12 NOV. 2017 20:08:07

5.1.1.11 Test Mode = LTE/TM2 20MHz

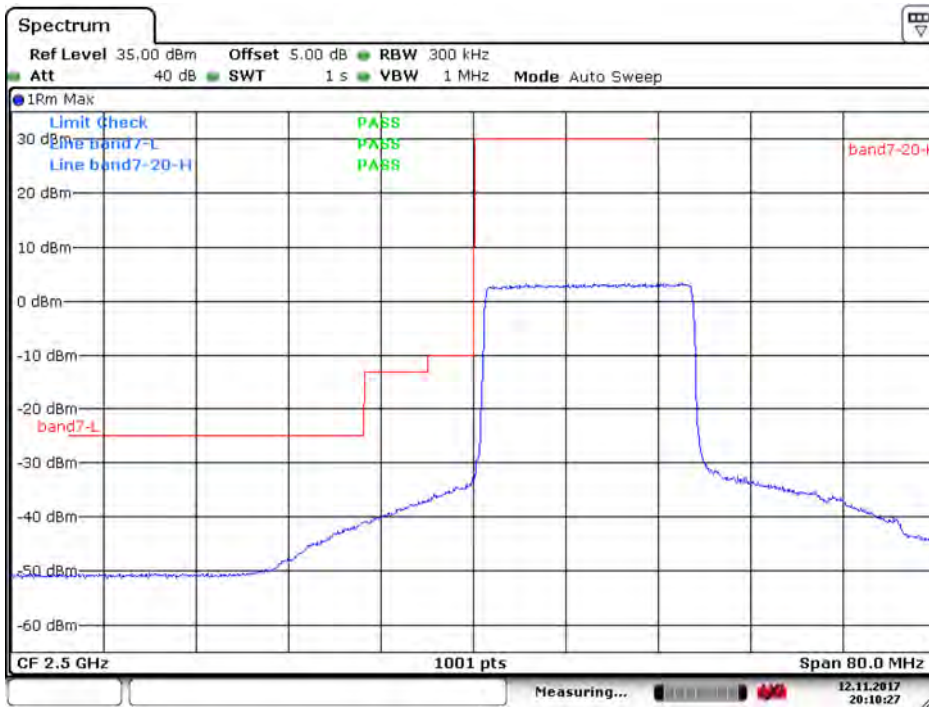
5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



Date: 12 NOV. 2017 20:10:13

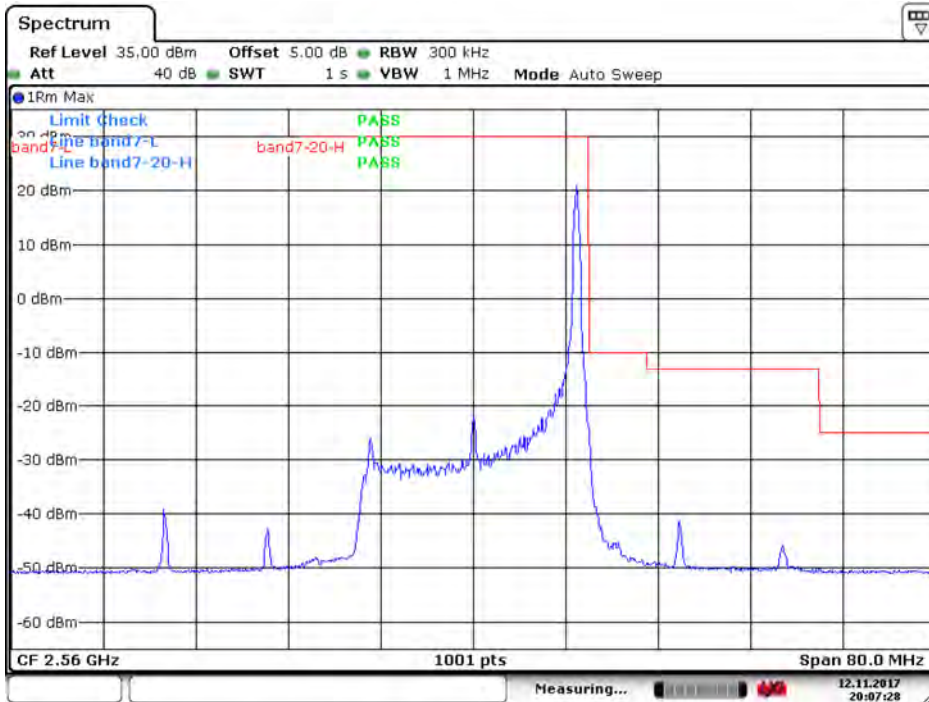
5.1.1.11.1.2 Test RB=100RB



Date: 12.NOV.2017 20:10:27

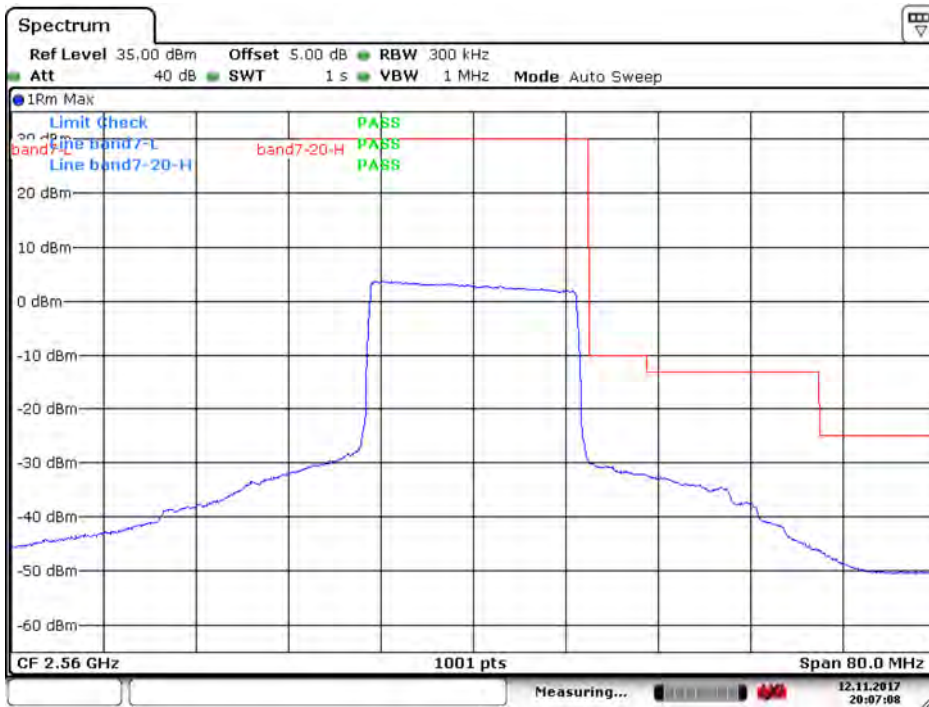
5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



Date: 12.NOV.2017 20:07:29

5.1.1.11.2.2 Test RB=100RB

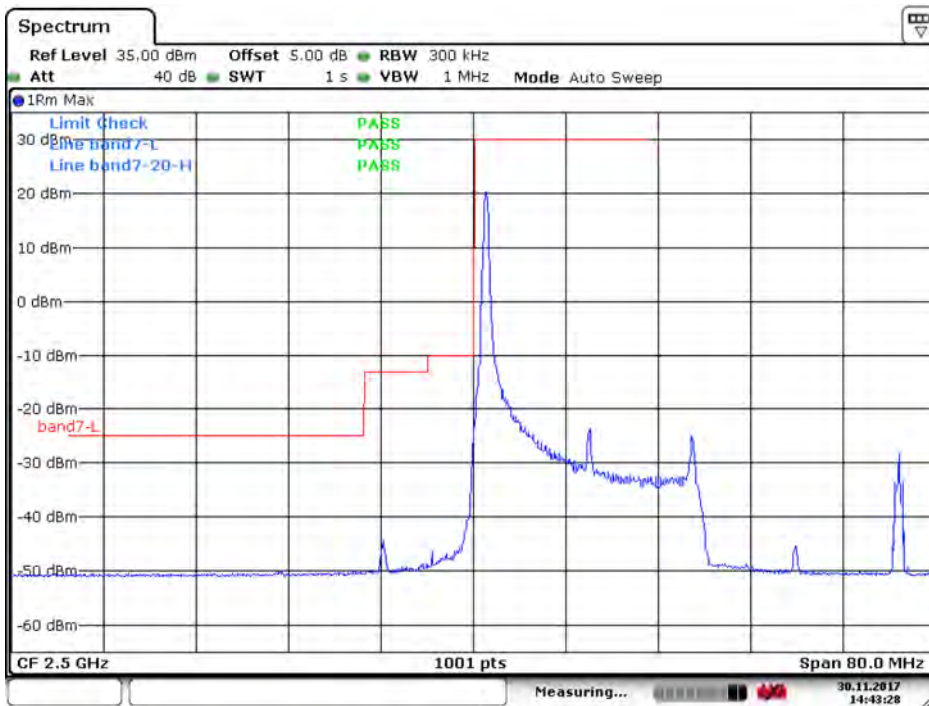


Date: 12.NOV.2017 20:07:08

5.1.1.12 Test Mode = LTE/TM3 20MHz

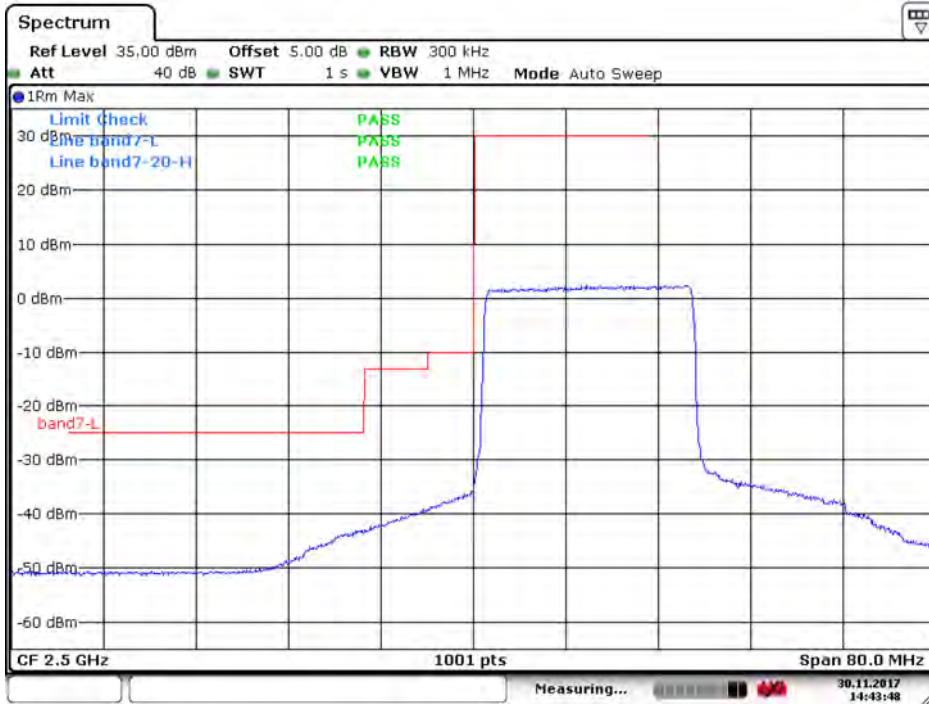
5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



Date: 30.NOV.2017 14:43:28

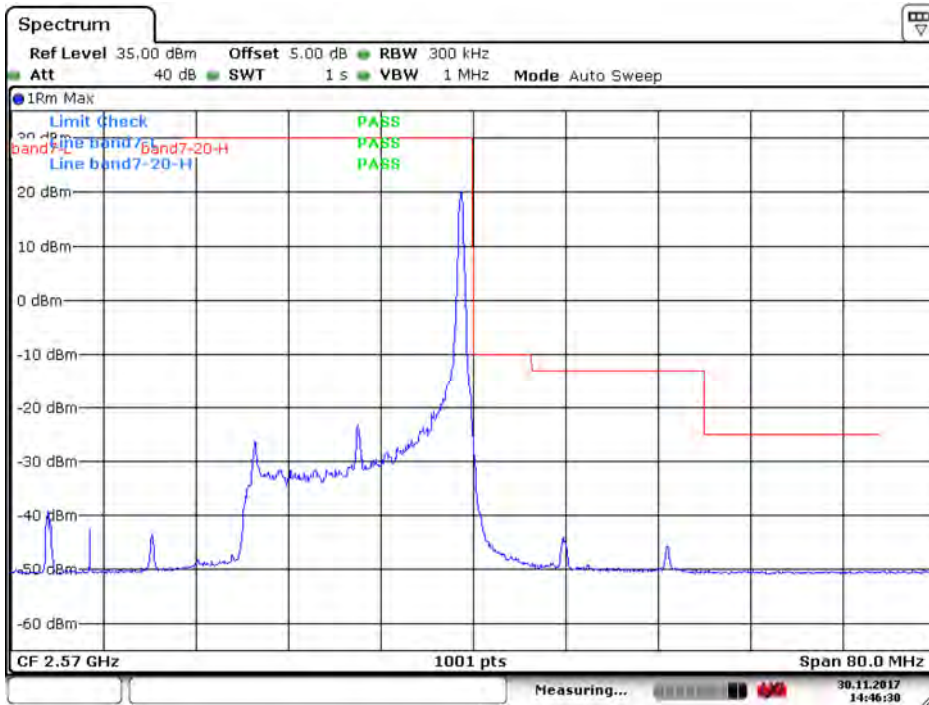
5.1.1.12.1.2 Test RB=100RB



Date: 30.NOV.2017 14:43:49

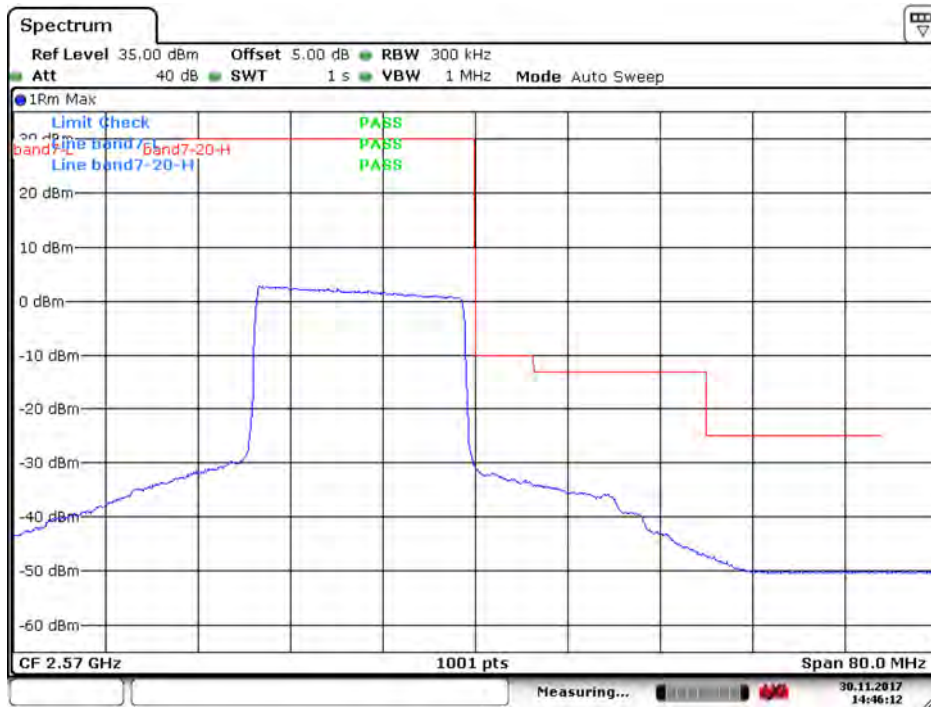
5.1.1.12.1 Test Channel = HCH

5.1.1.12.1.1 Test RB=1RB



Date: 30.NOV.2017 14:46:30

5.1.1.12.1.2 Test RB=100RB



Date: 30.NOV.2017 14:46:13



6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

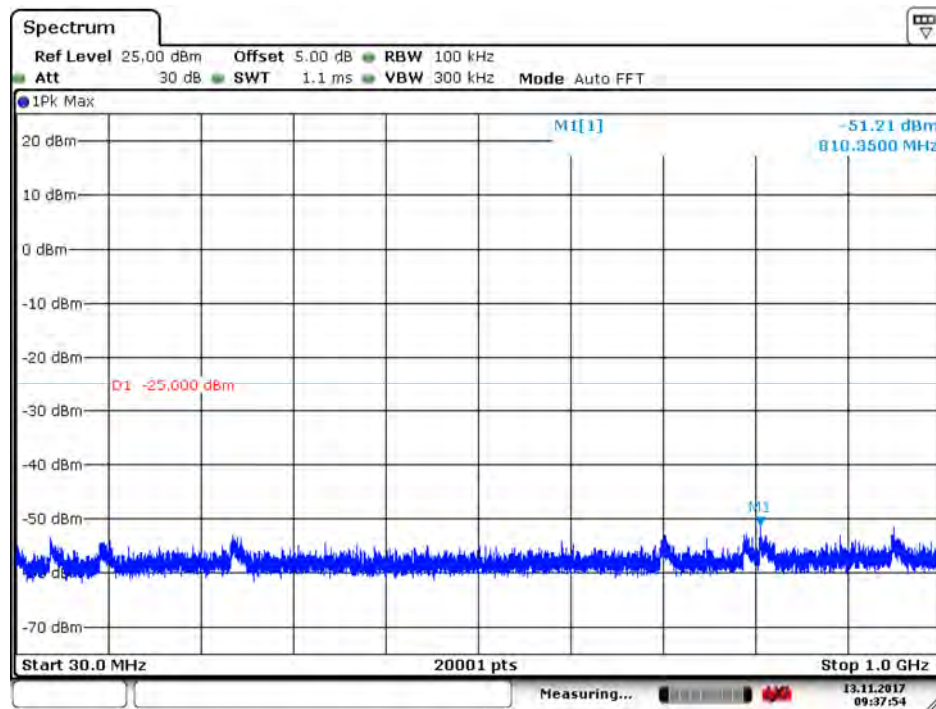
Part I - Test Plots

6.1 For LTE

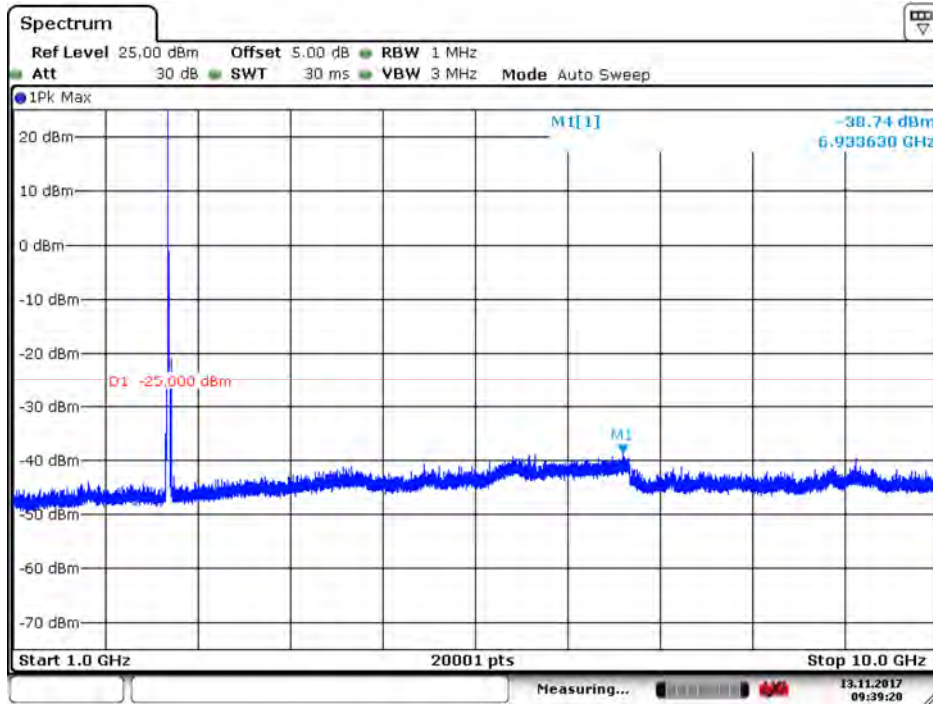
6.1.1 Test Band = LTE band7

6.1.1.1 Test Mode = LTE / TM1 20MHz RB1#0

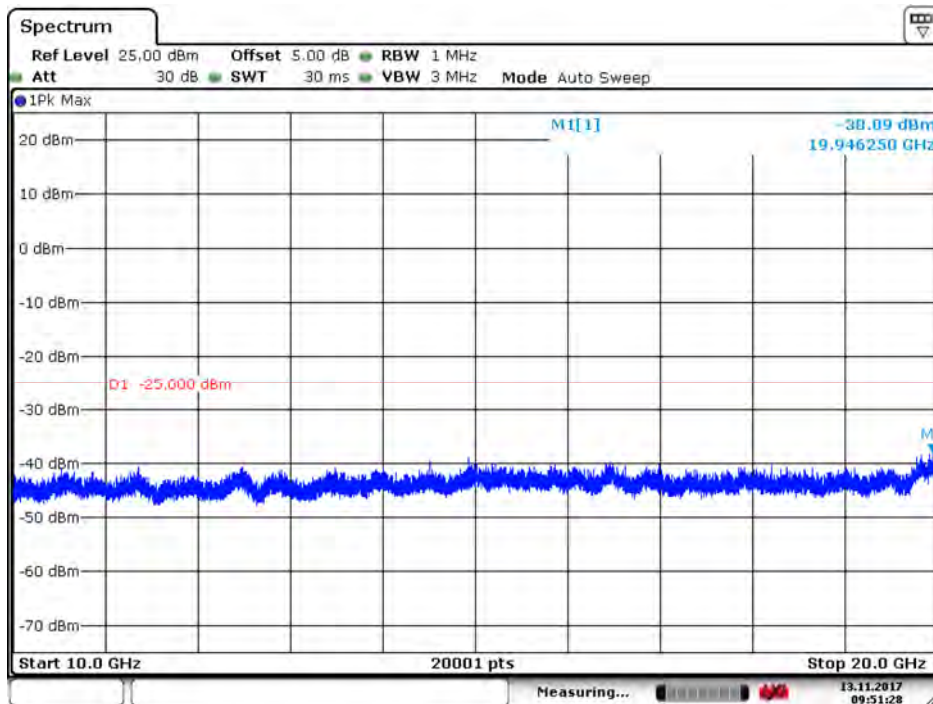
6.1.1.1.1 Test Channel = LCH



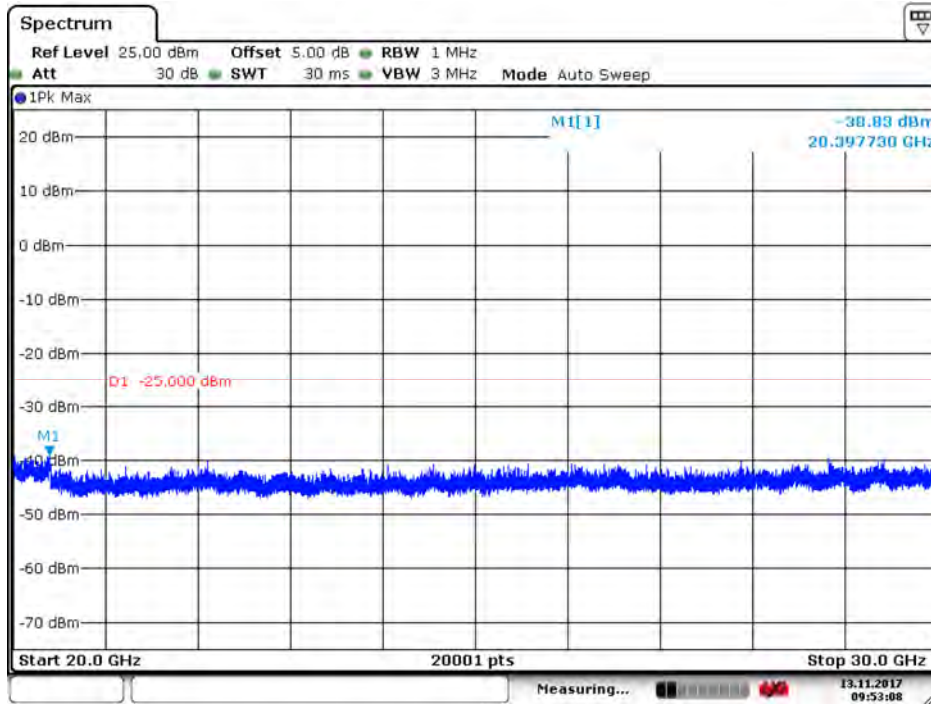
Date: 13.NOV.2017 09:37:55



Date: 13.NOV.2017 09:39:20

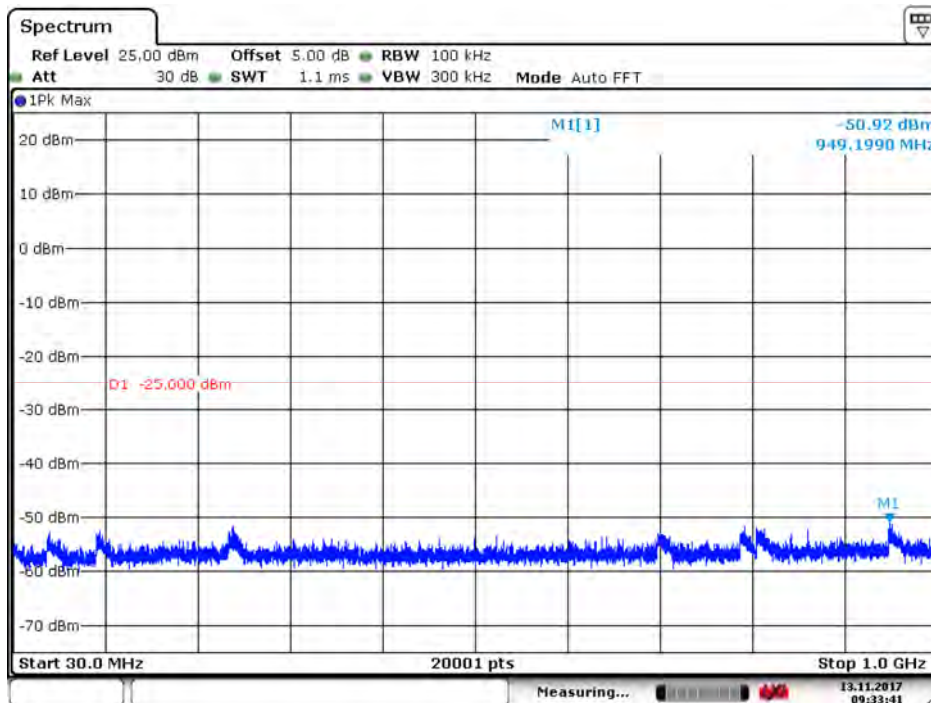


Date: 13.NOV.2017 09:51:29

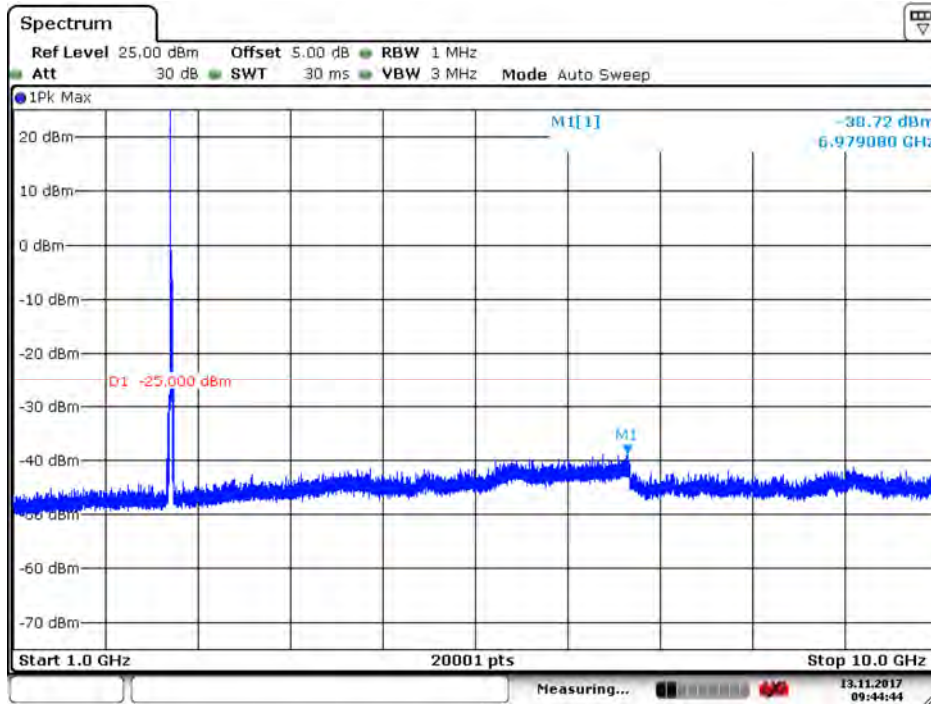


Date: 13.NOV.2017 09:53:08

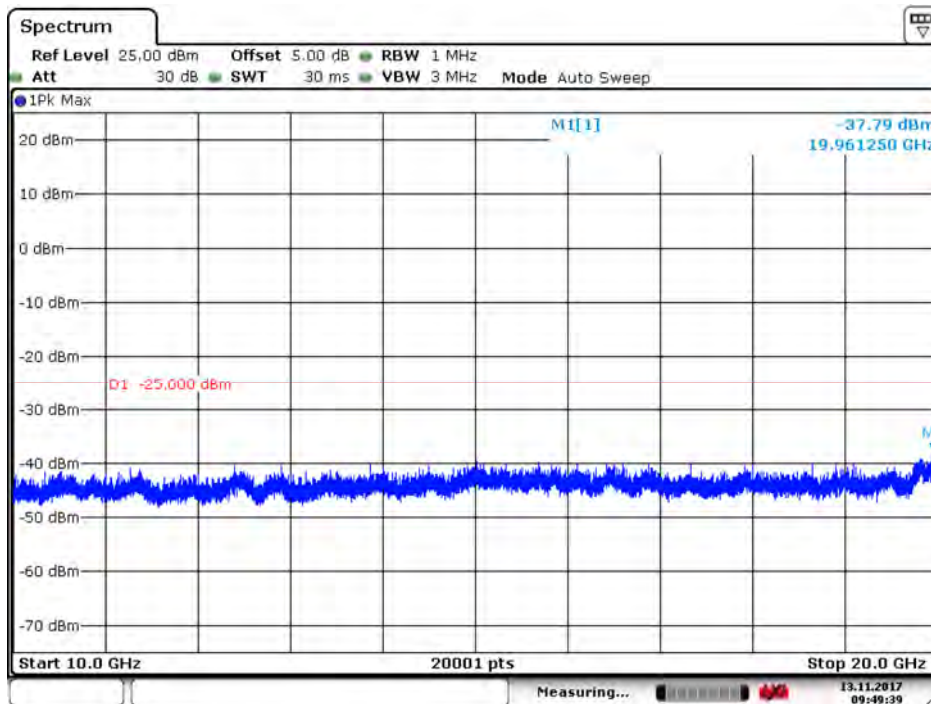
6.1.1.1.2 Test Channel = MCH



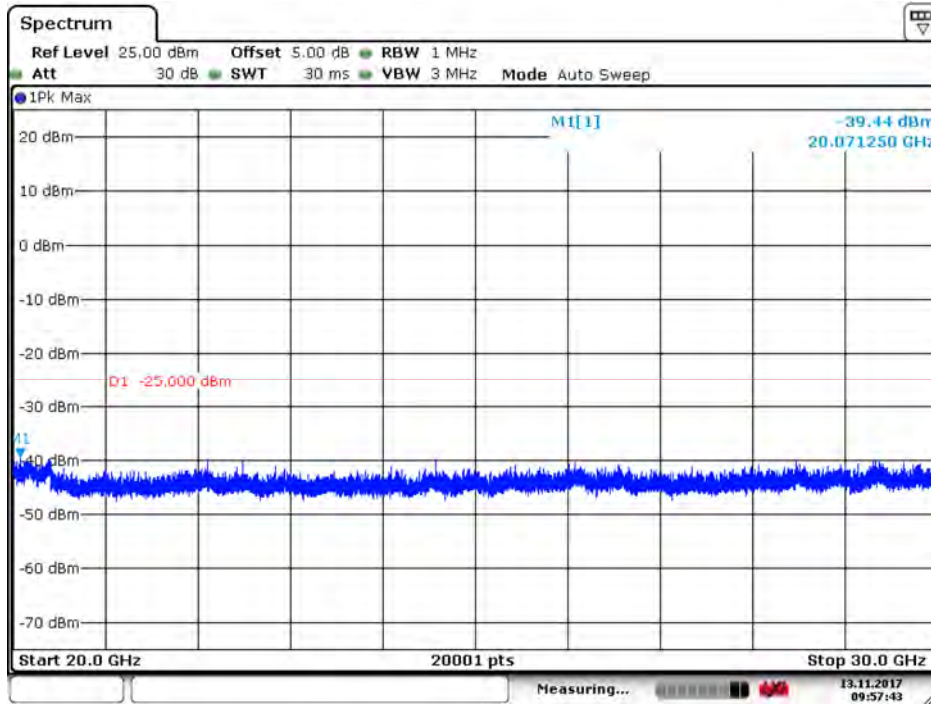
Date: 13.NOV.2017 09:33:41



Date: 13.NOV.2017 09:44:44

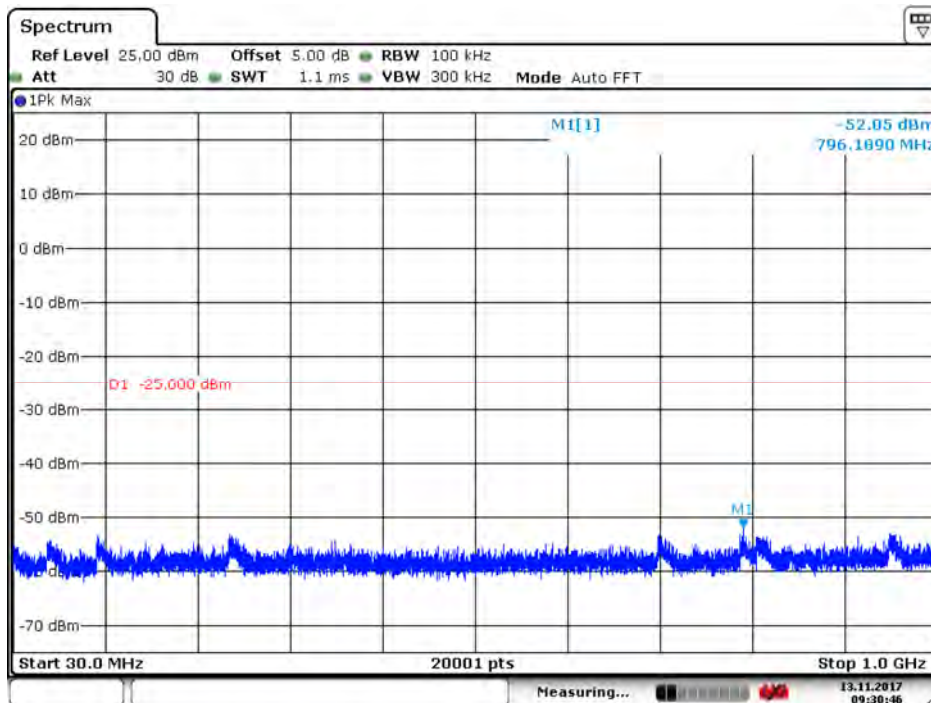


Date: 13.NOV.2017 09:49:39

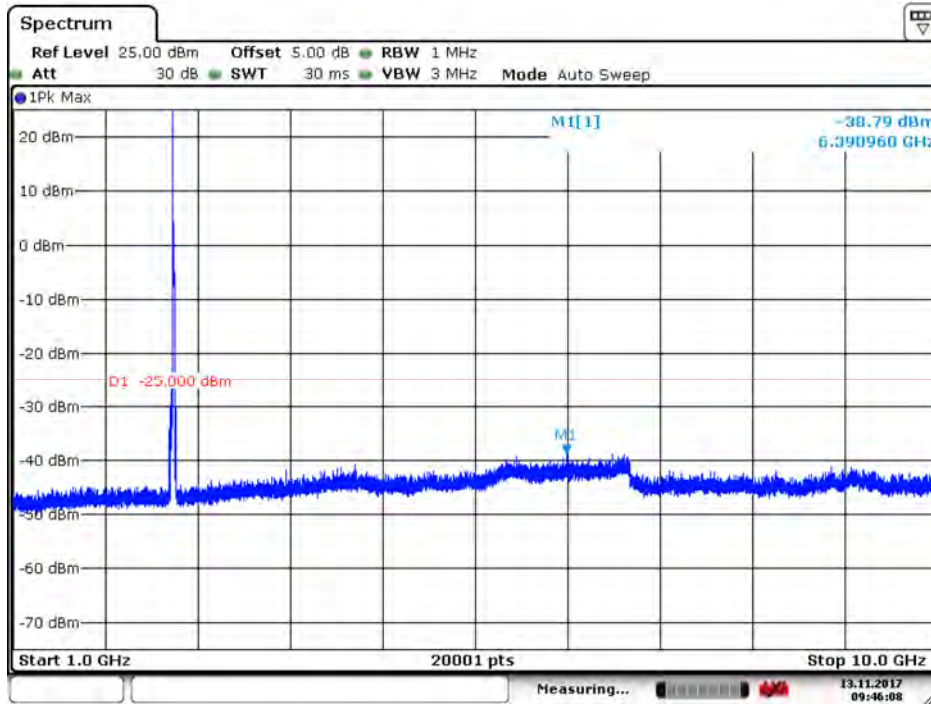


Date: 13.NOV.2017 09:57:43

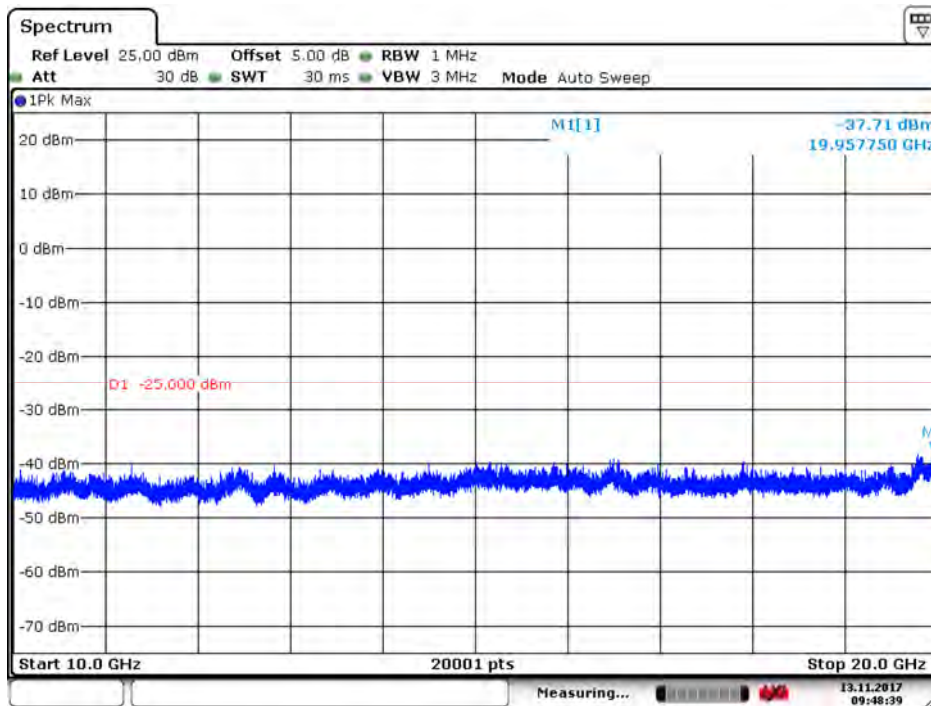
6.1.1.1.3 Test Channel = HCH



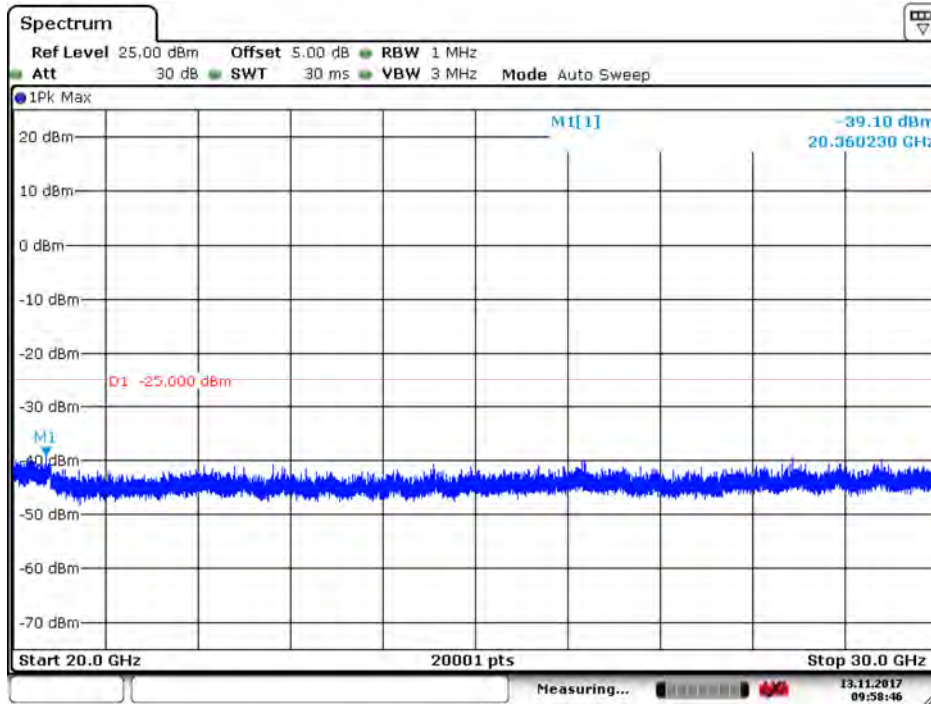
Date: 13.NOV.2017 09:30:46



Date: 13.NOV.2017 09:46:09



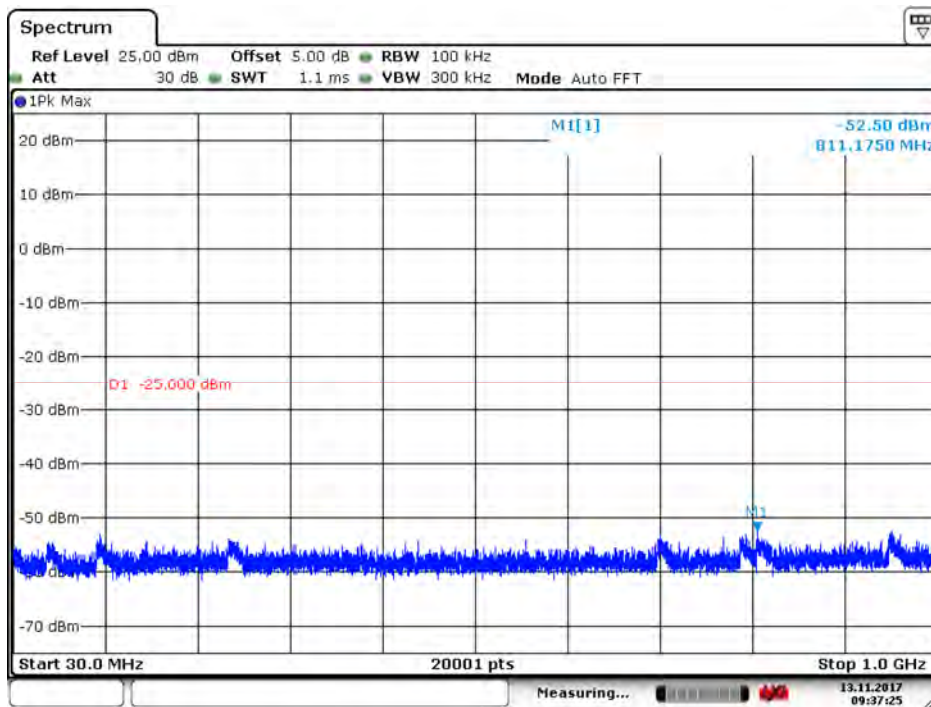
Date: 13.NOV.2017 09:48:39



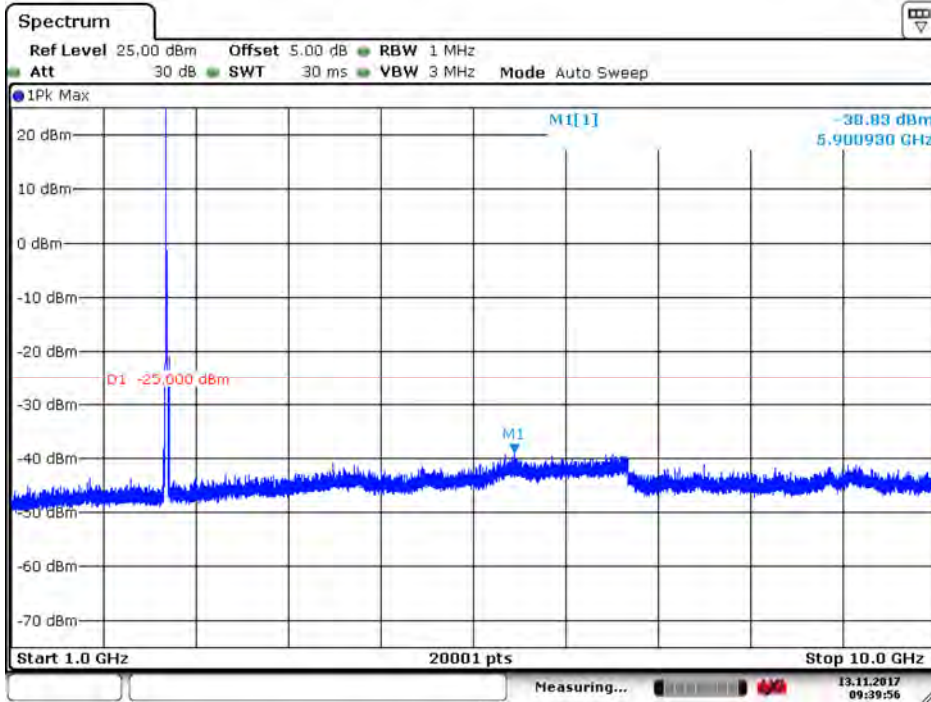
Date: 13.NOV.2017 09:58:46

6.1.1.2 Test Mode = LTE / TM2 20MHz RB1#0

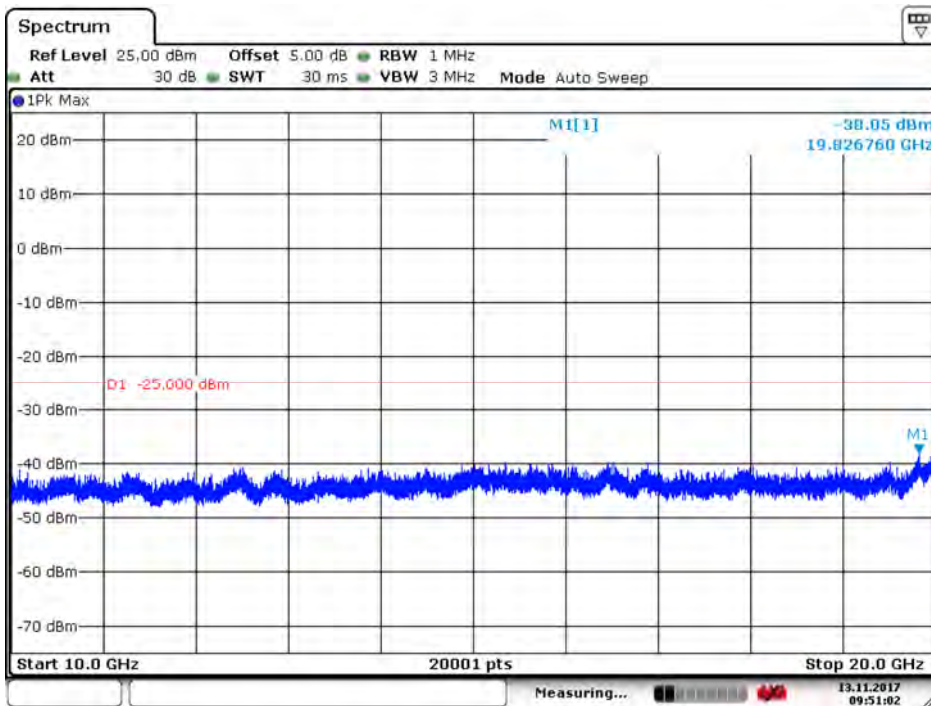
6.1.1.2.1 Test Channel = LCH



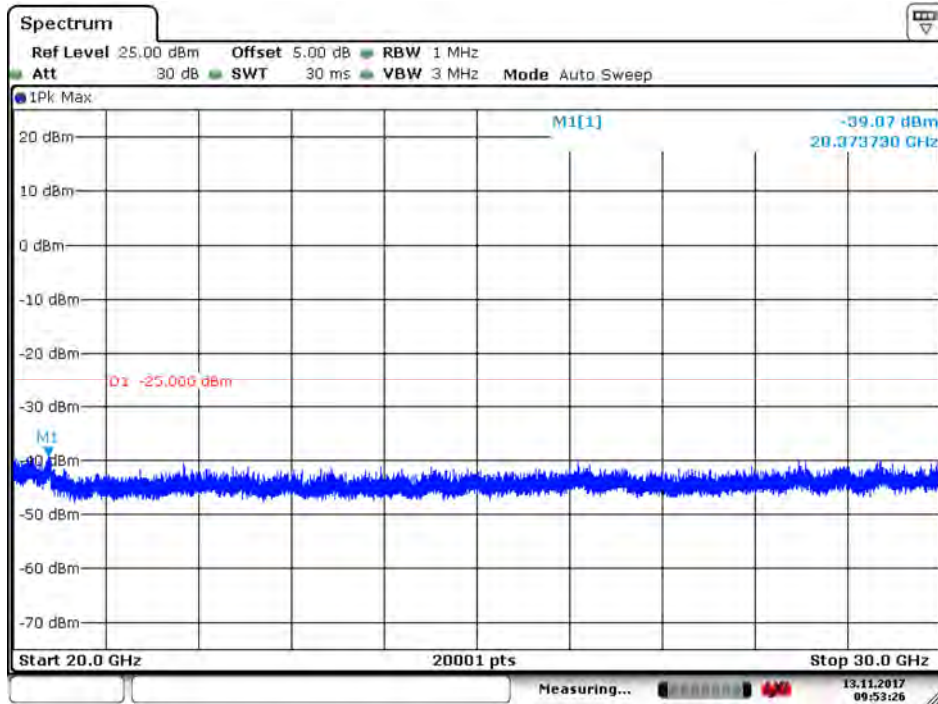
Date: 13.NOV.2017 09:37:25



Date: 13.NOV.2017 09:39:56

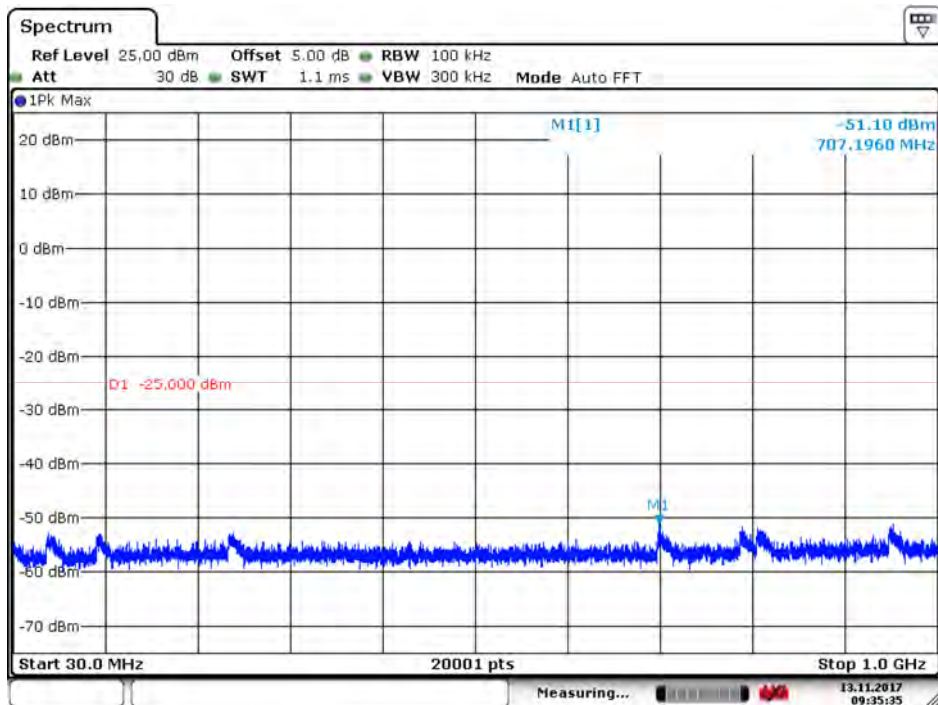


Date: 13.NOV.2017 09:51:03

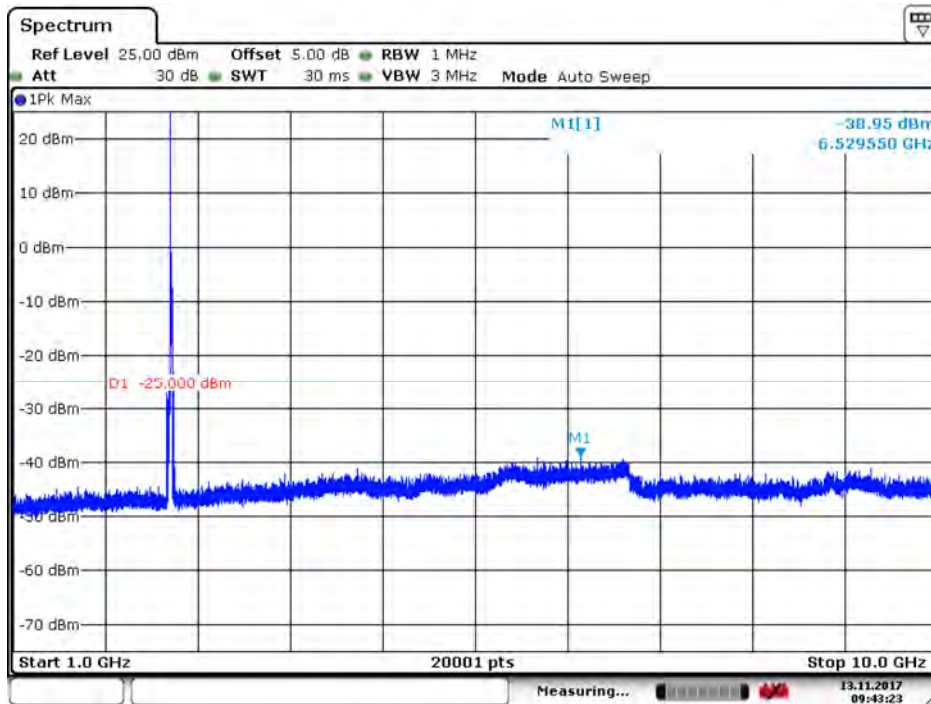


Date: 13.NOV.2017 09:53:26

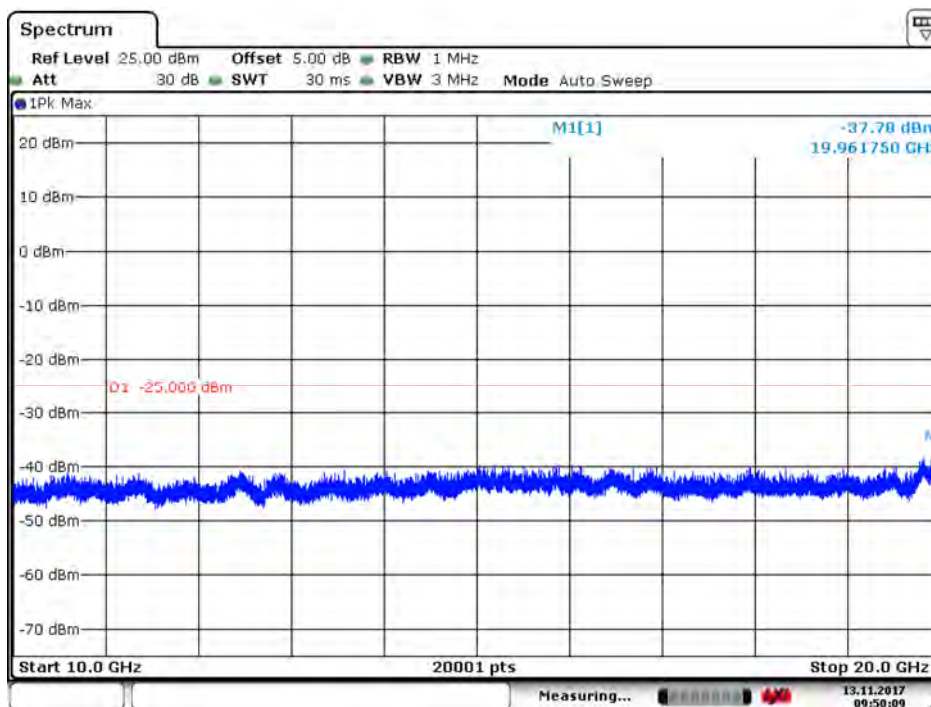
6.1.1.2.2 Test Channel = MCH



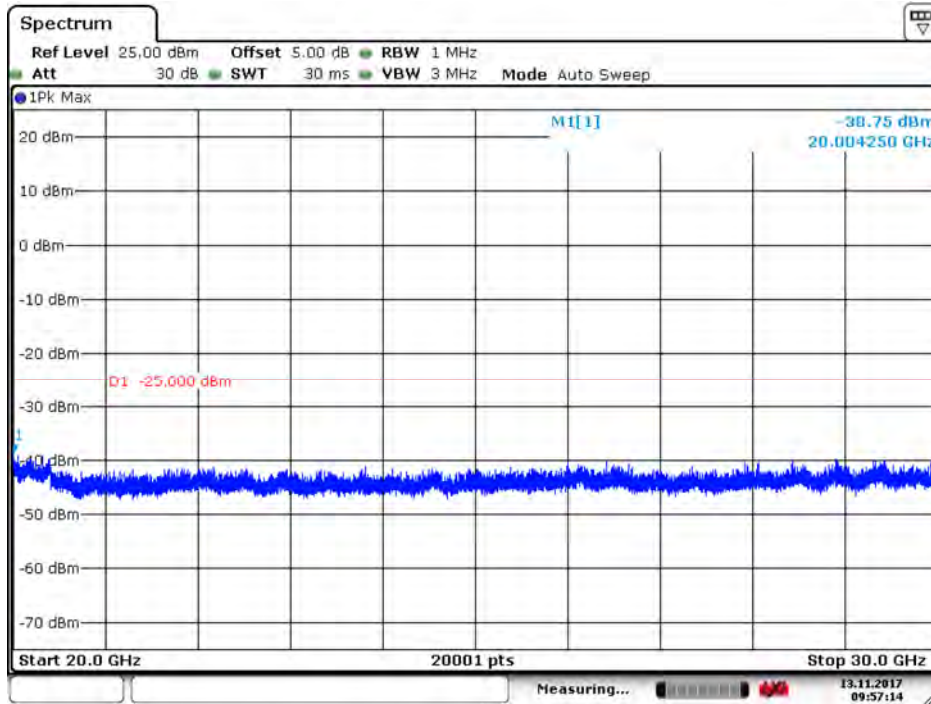
Date: 13.NOV.2017 09:35:36



Date: 13.NOV.2017 09:43:23

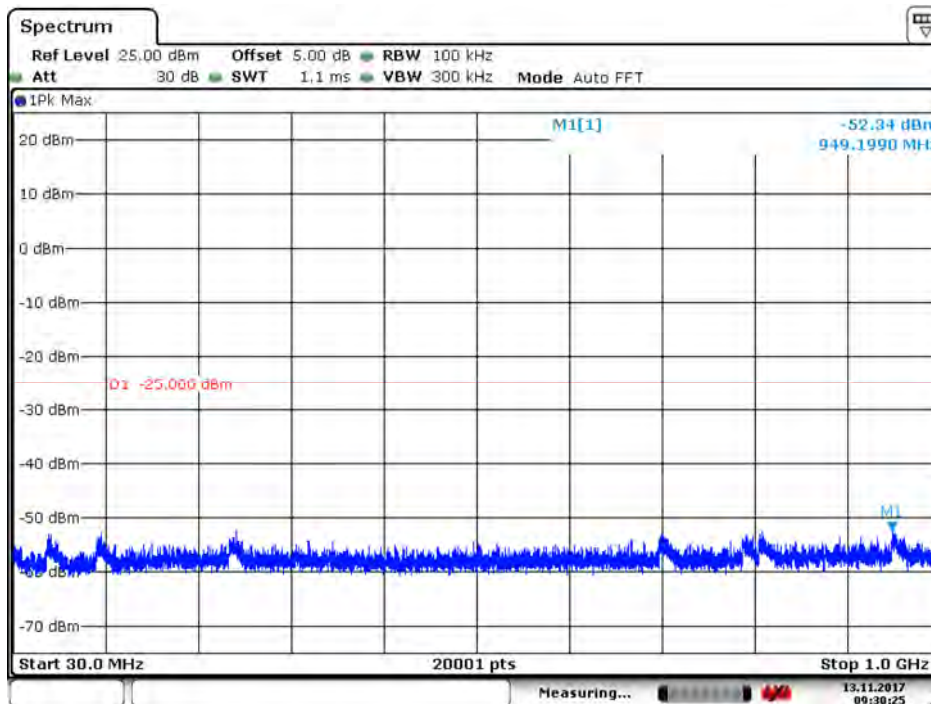


Date: 13.NOV.2017 09:50:09

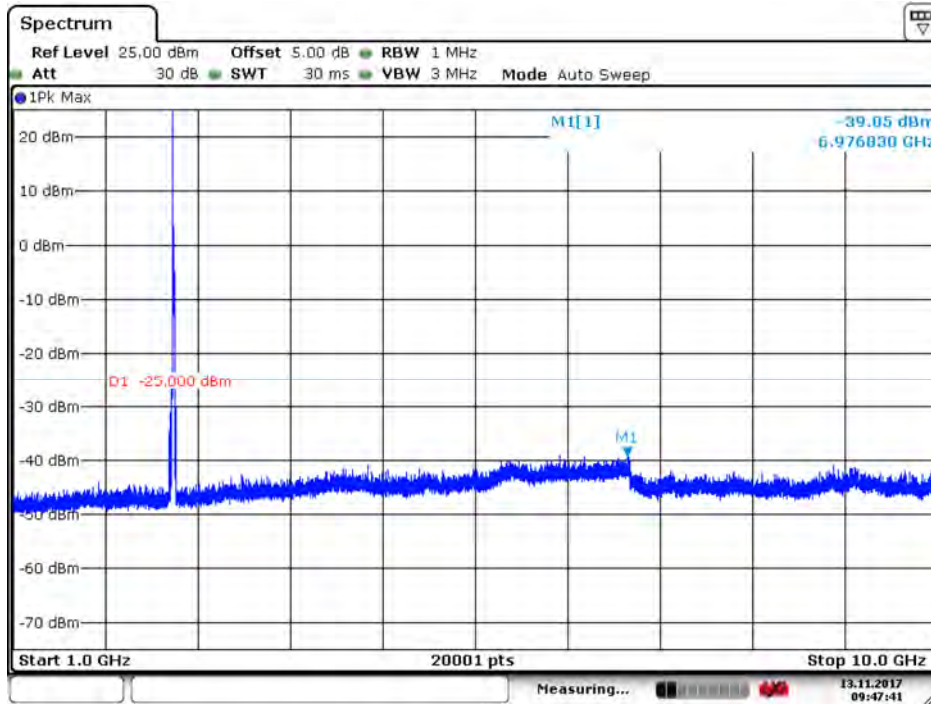


Date: 13.NOV.2017 09:57:15

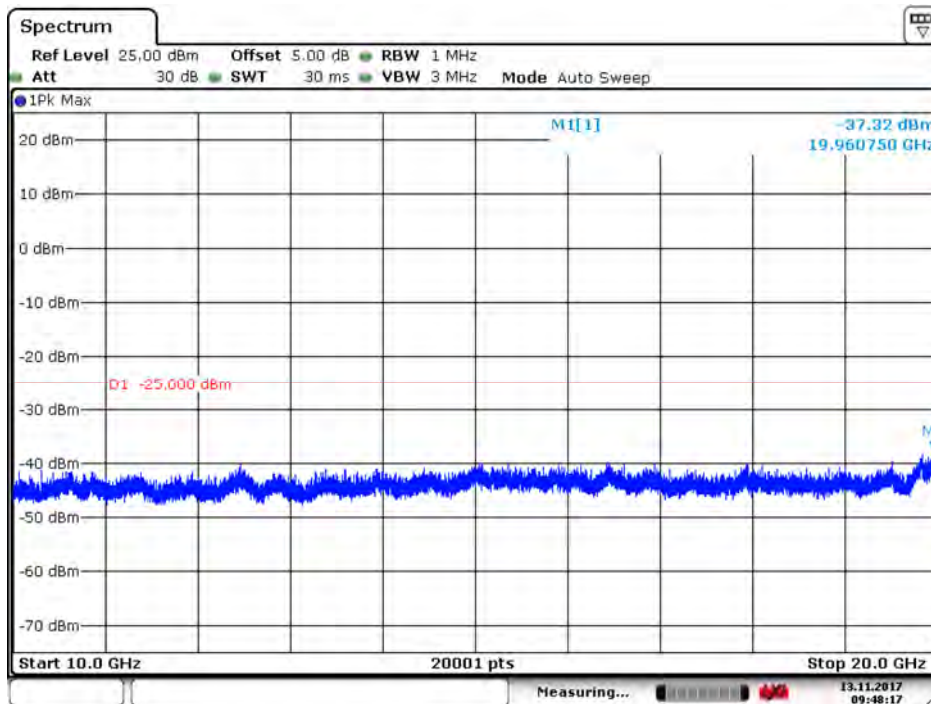
6.1.1.2.3 Test Channel = HCH



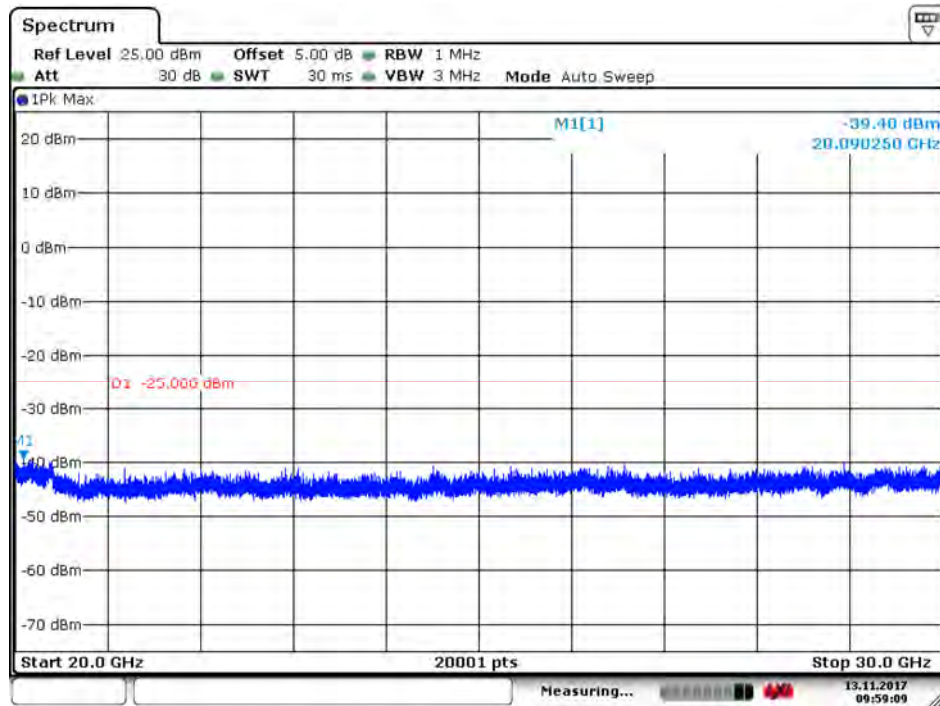
Date: 13.NOV.2017 09:38:25



Date: 13.NOV.2017 09:47:41



Date: 13.NOV.2017 09:48:17



Date: 13.NOV.2017 09:59:09



7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band7

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

Diversity antenna

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1100.000	-66.55	-25.00	-41.55	Vertical
2216.000	-59.53	-25.00	-34.53	Vertical
4365.000	-67.70	-25.00	-42.70	Vertical
1100.000	-66.80	-25.00	-41.80	Horizontal
2272.000	-59.35	-25.00	-34.35	Horizontal
4950.000	-66.65	-25.00	-41.65	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1188.000	-67.02	-13.00	-54.02	Vertical
2256.000	-59.35	-13.00	-46.35	Vertical
4950.000	-66.73	-13.00	-53.73	Vertical
1199.000	-67.12	-25.00	-42.12	Horizontal
2904.000	-56.76	-25.00	-31.76	Horizontal
5145.000	-66.95	-25.00	-41.95	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1265.000	-66.37	-25.00	-41.37	Vertical
2888.000	-57.42	-25.00	-32.42	Vertical
5145.000	-66.82	-25.00	-41.82	Vertical
1221.000	-67.23	-25.00	-42.23	Horizontal
3585.000	-68.76	-25.00	-43.76	Horizontal
5242.500	-67.27	-25.00	-42.27	Horizontal

Main antenna

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1100.000	-66.63	-25.00	-41.63	Vertical
2640.000	-53.90	-25.00	-28.90	Vertical
5020.175	-53.60	-25.00	-28.60	Vertical
1793.000	-63.73	-25.00	-38.73	Horizontal
2640.000	-54.63	-25.00	-29.63	Horizontal
5020.175	-52.29	-25.00	-27.29	Horizontal



7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1254.000	-66.51	-25.00	-41.51	Vertical
2656.000	-49.77	-25.00	-24.77	Vertical
5069.925	-55.24	-25.00	-30.24	Vertical
1210.000	-67.09	-25.00	-42.09	Horizontal
5069.925	-55.65	-25.00	-30.65	Horizontal
6120.000	-65.55	-25.00	-40.55	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1111.000	-66.64	-25.00	-41.64	Vertical
2112.000	-61.68	-25.00	-36.68	Vertical
5120.500	-56.37	-25.00	-31.37	Vertical
1826.000	-63.29	-25.00	-38.29	Horizontal
5120.500	-57.25	-25.00	-32.25	Horizontal
10215.000	-60.42	-25.00	-35.42	Horizontal

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband7	LTE/TM1 20MHz	LCH	TN	VL	-4.53	-0.00180	PASS
				VN	3.46	0.00138	PASS
				VH	-7.63	-0.00304	PASS
		MCH	TN	VL	1.43	0.00056	PASS
				VN	-2.24	-0.00088	PASS
				VH	2.73	0.00108	PASS
		HCH	TN	VL	-4.56	-0.00178	PASS
				VN	-2.17	-0.00085	PASS
				VH	-6.79	-0.00265	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-4.25	-0.00169	PASS
				VN	-2.35	-0.00094	PASS
				VH	-5.76	-0.00229	PASS
		MCH	TN	VL	3.56	0.00140	PASS
				VN	-2.89	-0.00114	PASS
				VH	2.54	0.00100	PASS
		HCH	TN	VL	-3.68	-0.00144	PASS
				VN	-8.08	-0.00316	PASS
				VH	3.44	0.00134	PASS
	LTE/TM3 20MHz	LCH	TN	VL	2.79	0.00111	PASS
				VN	-4.32	-0.00172	PASS
				VH	4.37	0.00174	PASS
		MCH	TN	VL	-2.43	-0.00096	PASS
				VN	4.43	0.00175	PASS
				VH	-3.59	-0.00142	PASS
		HCH	TN	VL	3.93	0.00154	PASS
				VN	1.43	0.00056	PASS
				VH	-2.75	-0.00107	PASS



8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband7	LTE/TM1 20MHz	LCH	VN	-30	-0.49	-0.00020	PASS
				-20	-1.44	-0.00057	PASS
				-10	4.32	0.00172	PASS
				0	2.75	0.00110	PASS
				10	1.25	0.00050	PASS
				20	0.19	0.00008	PASS
				30	-0.36	-0.00014	PASS
				40	-0.34	-0.00014	PASS
				50	4.59	0.00183	PASS
		MCH	VN	-30	-3.89	-0.00153	PASS
				-20	-5.05	-0.00199	PASS
				-10	-7.43	-0.00293	PASS
				0	-5.02	-0.00198	PASS
				10	-4.54	-0.00179	PASS
				20	-3.94	-0.00155	PASS
				30	-5.60	-0.00221	PASS
				40	-4.32	-0.00170	PASS
				50	-6.32	-0.00249	PASS
		HCH	VN	-30	3.54	0.00138	PASS
				-20	-1.45	-0.00057	PASS
				-10	4.53	0.00177	PASS
				0	-2.82	-0.00110	PASS
				10	2.30	0.00090	PASS
				20	-0.55	-0.00021	PASS
				30	-6.64	-0.00259	PASS
				40	-2.43	-0.00095	PASS
				50	-8.30	-0.00324	PASS



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

Report No.: SZEM171001122301

Page: 85 of 86

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband7	LTE/TM2 20MHz	LCH	VN	-30	-0.59	-0.00024	PASS
				-20	-2.25	-0.00090	PASS
				-10	3.34	0.00133	PASS
				0	2.34	0.00093	PASS
				10	1.67	0.00067	PASS
				20	-2.23	-0.00089	PASS
				30	-3.44	-0.00137	PASS
				40	5.35	0.00213	PASS
		MCH	VN	-30	-3.88	-0.00153	PASS
				-20	-5.33	-0.00210	PASS
				-10	-2.19	-0.00086	PASS
				0	-4.35	-0.00172	PASS
				10	-0.36	-0.00014	PASS
				20	1.44	0.00057	PASS
				30	-3.69	-0.00146	PASS
				40	-2.63	-0.00104	PASS
		HCH	VN	-30	1.36	0.00053	PASS
				-20	-2.25	-0.00088	PASS
				-10	3.59	0.00140	PASS
				0	-3.77	-0.00147	PASS
				10	2.82	0.00110	PASS
				20	-1.49	-0.00058	PASS
				30	-2.39	-0.00093	PASS
				40	-4.38	-0.00171	PASS
			50	-7.62	-0.00298	PASS	



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

Report No.: SZEM171001122301

Page: 86 of 86

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband7	LTE/TM3 20MHz	LCH	VN	-30	1.59	0.00063	PASS
				-20	-1.65	-0.00066	PASS
				-10	4.48	0.00178	PASS
				0	1.66	0.00066	PASS
				10	3.43	0.00137	PASS
				20	2.54	0.00101	PASS
				30	-2.65	-0.00106	PASS
				40	-0.63	-0.00025	PASS
		MCH	VN	-30	-2.34	-0.00092	PASS
				-20	-5.38	-0.00212	PASS
				-10	-3.83	-0.00151	PASS
				0	-5.30	-0.00209	PASS
				10	-4.94	-0.00195	PASS
				20	-4.34	-0.00171	PASS
				30	-5.25	-0.00207	PASS
				40	-4.83	-0.00191	PASS
		HCH	VN	-30	2.38	0.00093	PASS
				-20	-1.89	-0.00074	PASS
				-10	4.57	0.00179	PASS
				0	-2.40	-0.00094	PASS
				10	1.65	0.00064	PASS
				20	-0.54	-0.00021	PASS
				30	2.66	0.00104	PASS
				40	-5.40	-0.00211	PASS
			50	-5.94	-0.00232	PASS	

The End