



Appendix B

Test Data for SZEM161201085001RG



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 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	21.20	21.20	33.00	PASS
				RB1#13	21.13	21.13	33.00	PASS
				RB1#24	21.25	21.25	33.00	PASS
				RB12#0	20.28	20.28	33.00	PASS
				RB12#6	20.26	20.26	33.00	PASS
				RB12#13	20.38	20.38	33.00	PASS
				RB25#0	20.10	20.10	33.00	PASS
			MCH	RB1#0	21.23	21.23	33.00	PASS
				RB1#13	21.37	21.37	33.00	PASS
				RB1#24	21.63	21.63	33.00	PASS
				RB12#0	19.99	19.99	33.00	PASS
				RB12#6	20.04	20.04	33.00	PASS
				RB12#13	20.06	20.06	33.00	PASS
				RB25#0	20.06	20.06	33.00	PASS
			HCH	RB1#0	21.71	21.71	33.00	PASS
				RB1#13	20.99	20.99	33.00	PASS
				RB1#24	21.04	21.04	33.00	PASS
				RB12#0	20.64	20.64	33.00	PASS
				RB12#6	20.69	20.69	33.00	PASS
				RB12#13	20.61	20.61	33.00	PASS
				RB25#0	20.23	20.23	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
BAND7	LTE/TM2	5M	LCH	RB1#0	19.97	19.97	33.00	PASS
				RB1#13	19.83	19.83	33.00	PASS
				RB1#24	19.79	19.79	33.00	PASS
				RB12#0	19.60	19.60	33.00	PASS
				RB12#6	19.64	19.64	33.00	PASS
				RB12#13	19.86	19.86	33.00	PASS
				RB25#0	19.07	19.07	33.00	PASS
			MCH	RB1#0	20.51	20.51	33.00	PASS
				RB1#13	20.01	20.01	33.00	PASS
				RB1#24	19.82	19.82	33.00	PASS
				RB12#0	19.27	19.27	33.00	PASS
				RB12#6	19.46	19.46	33.00	PASS
				RB12#13	19.81	19.81	33.00	PASS
				RB25#0	18.93	18.93	33.00	PASS
			HCH	RB1#0	20.57	20.57	33.00	PASS
				RB1#13	20.27	20.27	33.00	PASS
				RB1#24	20.06	20.06	33.00	PASS
				RB12#0	19.68	19.68	33.00	PASS
				RB12#6	19.59	19.59	33.00	PASS
				RB12#13	19.43	19.43	33.00	PASS
				RB25#0	19.41	19.41	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
BAND7	LTE/TM1	10M	LCH	RB1#0	21.26	21.26	33.00	PASS
				RB1#25	21.21	21.21	33.00	PASS
				RB1#49	21.30	21.30	33.00	PASS
				RB25#0	20.33	20.33	33.00	PASS
				RB25#13	20.32	20.32	33.00	PASS
				RB25#25	20.45	20.45	33.00	PASS
				RB50#0	20.16	20.16	33.00	PASS
			MCH	RB1#0	21.27	21.27	33.00	PASS
				RB1#25	21.45	21.45	33.00	PASS
				RB1#49	21.70	21.70	33.00	PASS
				RB25#0	20.04	20.04	33.00	PASS
				RB25#13	20.11	20.11	33.00	PASS
				RB25#25	20.13	20.13	33.00	PASS
				RB50#0	20.09	20.09	33.00	PASS
			HCH	RB1#0	21.76	21.76	33.00	PASS
				RB1#25	21.06	21.06	33.00	PASS
				RB1#49	21.09	21.09	33.00	PASS
				RB25#0	20.72	20.72	33.00	PASS
				RB25#13	20.73	20.73	33.00	PASS
				RB25#25	20.66	20.66	33.00	PASS
				RB50#0	20.30	20.30	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
BAND7	LTE/TM2	10M	LCH	RB1#0	20.05	20.05	33.00	PASS
				RB1#25	19.90	19.90	33.00	PASS
				RB1#49	19.85	19.85	33.00	PASS
				RB25#0	19.66	19.66	33.00	PASS
				RB25#13	19.70	19.70	33.00	PASS
				RB25#25	19.90	19.90	33.00	PASS
				RB50#0	19.10	19.10	33.00	PASS
			MCH	RB1#0	20.54	20.54	33.00	PASS
				RB1#25	20.08	20.08	33.00	PASS
				RB1#49	19.88	19.88	33.00	PASS
				RB25#0	19.35	19.35	33.00	PASS
				RB25#13	19.51	19.51	33.00	PASS
				RB25#25	19.87	19.87	33.00	PASS
				RB50#0	19.00	19.00	33.00	PASS
			HCH	RB1#0	20.65	20.65	33.00	PASS
				RB1#25	20.34	20.34	33.00	PASS
				RB1#49	20.09	20.09	33.00	PASS
				RB25#0	19.74	19.74	33.00	PASS
				RB25#13	19.62	19.62	33.00	PASS
				RB25#25	19.47	19.47	33.00	PASS
				RB50#0	19.45	19.45	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
BAND7	LTE/TM1	15M	LCH	RB1#0	21.32	21.32	33.00	PASS
				RB1#38	21.27	21.27	33.00	PASS
				RB1#74	21.34	21.34	33.00	PASS
				RB36#0	20.39	20.39	33.00	PASS
				RB36#18	20.38	20.38	33.00	PASS
				RB36#39	20.51	20.51	33.00	PASS
				RB75#0	20.21	20.21	33.00	PASS
			MCH	RB1#0	21.31	21.31	33.00	PASS
				RB1#38	21.48	21.48	33.00	PASS
				RB1#74	21.74	21.74	33.00	PASS
				RB36#0	20.12	20.12	33.00	PASS
				RB36#18	20.17	20.17	33.00	PASS
				RB36#39	20.19	20.19	33.00	PASS
				RB75#0	20.14	20.14	33.00	PASS
			HCH	RB1#0	21.84	21.84	33.00	PASS
				RB1#38	21.11	21.11	33.00	PASS
				RB1#74	21.12	21.12	33.00	PASS
				RB36#0	20.78	20.78	33.00	PASS
				RB36#18	20.79	20.79	33.00	PASS
				RB36#39	20.70	20.70	33.00	PASS
				RB75#0	20.36	20.36	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
BAND7	LTE/TM2	15M	LCH	RB1#0	20.12	20.12	33.00	PASS
				RB1#38	19.97	19.97	33.00	PASS
				RB1#74	19.91	19.91	33.00	PASS
				RB36#0	19.72	19.72	33.00	PASS
				RB36#18	19.76	19.76	33.00	PASS
				RB36#39	19.95	19.95	33.00	PASS
				RB75#0	19.18	19.18	33.00	PASS
			MCH	RB1#0	20.59	20.59	33.00	PASS
				RB1#38	20.14	20.14	33.00	PASS
				RB1#74	19.92	19.92	33.00	PASS
				RB36#0	19.43	19.43	33.00	PASS
				RB36#18	19.56	19.56	33.00	PASS
				RB36#39	19.91	19.91	33.00	PASS
				RB75#0	19.06	19.06	33.00	PASS
			HCH	RB1#0	20.70	20.70	33.00	PASS
				RB1#38	20.39	20.39	33.00	PASS
				RB1#74	20.15	20.15	33.00	PASS
				RB36#0	19.82	19.82	33.00	PASS
				RB36#18	19.65	19.65	33.00	PASS
				RB36#39	19.50	19.50	33.00	PASS
				RB75#0	19.51	19.51	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
BAND7	LTE/TM1	20M	LCH	RB1#0	21.38	21.38	33.00	PASS
				RB1#50	21.32	21.32	33.00	PASS
				RB1#99	21.37	21.37	33.00	PASS
				RB50#0	20.44	20.44	33.00	PASS
				RB50#25	20.45	20.45	33.00	PASS
				RB50#50	20.58	20.58	33.00	PASS
				RB100#0	20.27	20.27	33.00	PASS
			MCH	RB1#0	21.37	21.37	33.00	PASS
				RB1#50	21.54	21.54	33.00	PASS
				RB1#99	21.80	21.80	33.00	PASS
				RB50#0	20.16	20.16	33.00	PASS
				RB50#25	20.21	20.21	33.00	PASS
				RB50#50	20.24	20.24	33.00	PASS
				RB100#0	20.21	20.21	33.00	PASS
			HCH	RB1#0	21.87	21.87	33.00	PASS
				RB1#50	21.16	21.16	33.00	PASS
				RB1#99	21.15	21.15	33.00	PASS
				RB50#0	20.86	20.86	33.00	PASS
				RB50#25	20.83	20.83	33.00	PASS
				RB50#50	20.77	20.77	33.00	PASS
				RB100#0	20.41	20.41	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
BAND7	LTE/TM2	20M	LCH	RB1#0	20.19	20.19	33.00	PASS
				RB1#50	20.01	20.01	33.00	PASS
				RB1#99	19.98	19.98	33.00	PASS
				RB50#0	19.79	19.79	33.00	PASS
				RB50#25	19.82	19.82	33.00	PASS
				RB50#50	20.01	20.01	33.00	PASS
				RB100#0	19.24	19.24	33.00	PASS
			MCH	RB1#0	20.63	20.63	33.00	PASS
				RB1#50	20.18	20.18	33.00	PASS
				RB1#99	19.99	19.99	33.00	PASS
				RB50#0	19.51	19.51	33.00	PASS
				RB50#25	19.63	19.63	33.00	PASS
				RB50#50	19.98	19.98	33.00	PASS
				RB100#0	19.11	19.11	33.00	PASS
			HCH	RB1#0	20.76	20.76	33.00	PASS
				RB1#50	20.45	20.45	33.00	PASS
				RB1#99	20.18	20.18	33.00	PASS
				RB50#0	19.88	19.88	33.00	PASS
				RB50#25	19.73	19.73	33.00	PASS
				RB50#50	19.54	19.54	33.00	PASS
				RB100#0	19.56	19.56	33.00	PASS

Note:

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

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

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 7	TM1/20M	LCH	4.67	13	PASS
		MCH	4.67	13	PASS
		HCH	4.61	13	PASS
	TM2/20M	LCH	5.45	13	PASS
		MCH	5.54	13	PASS
		HCH	5.51	13	PASS



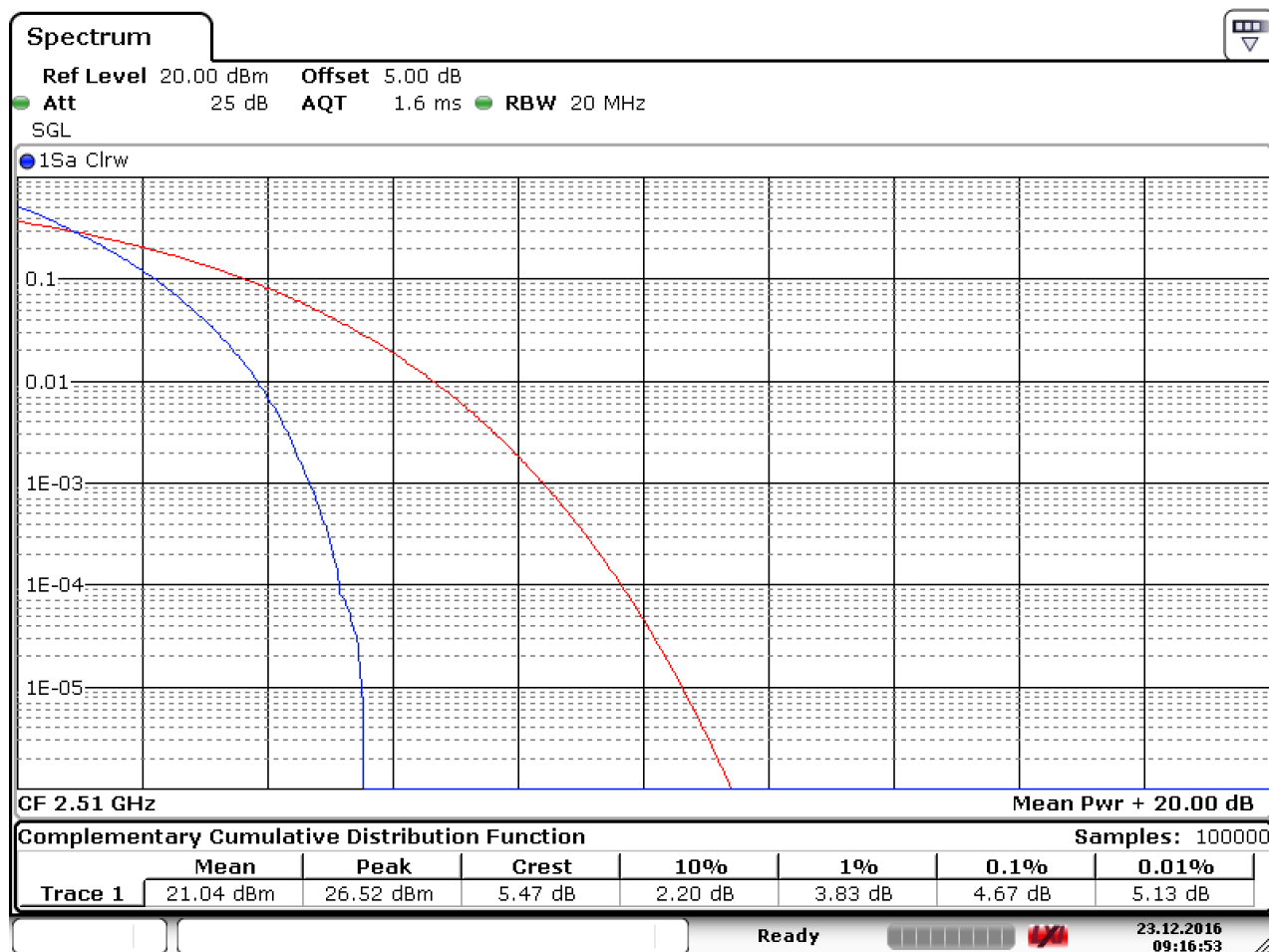
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band7

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

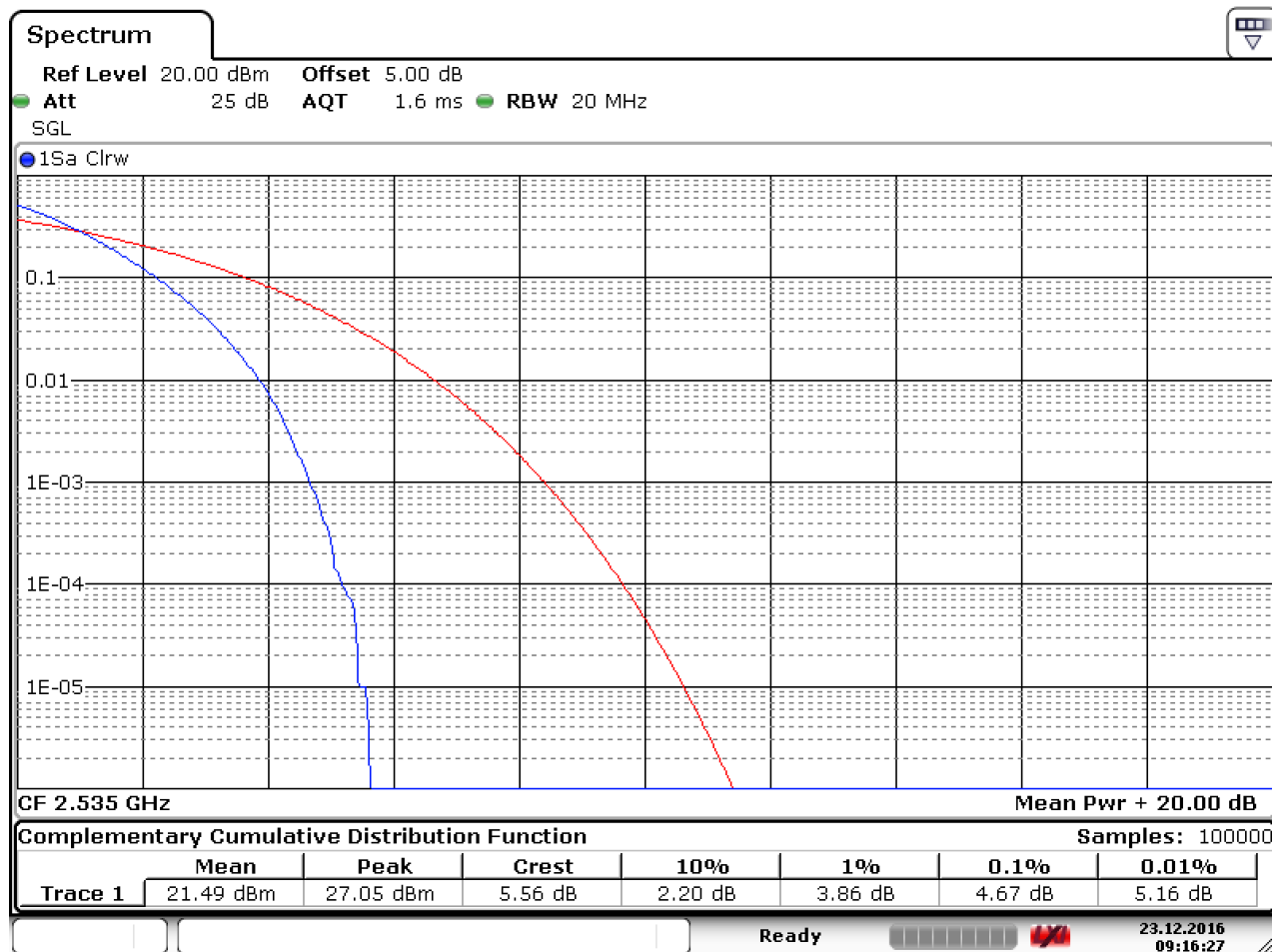
2.1.1.1.1 Test Channel = LCH



Date: 23.DEC.2016 09:16:53



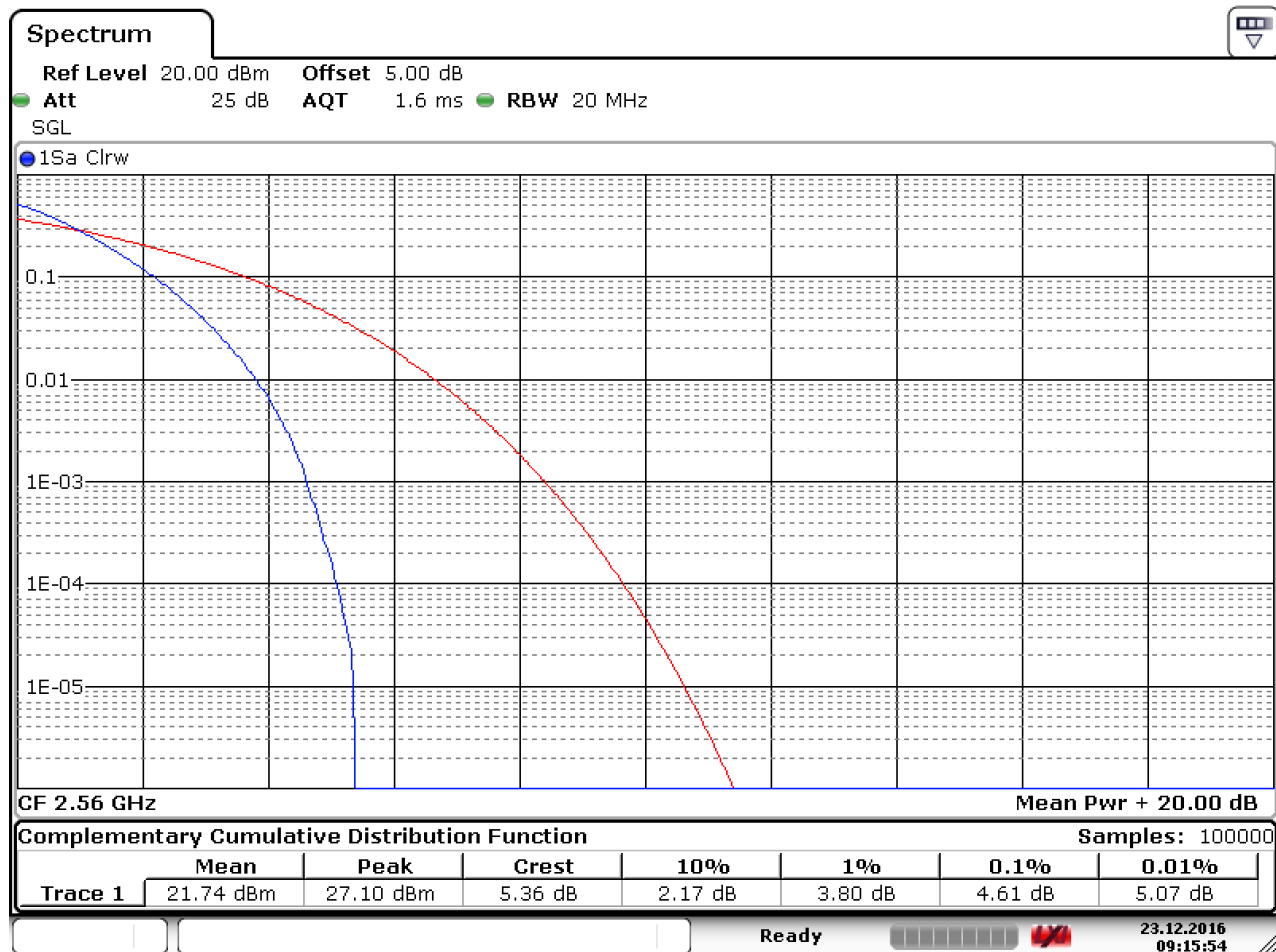
2.1.1.1.2 Test Channel = MCH



Date: 23.DEC.2016 09:16:28



2.1.1.1.3 Test Channel = HCH

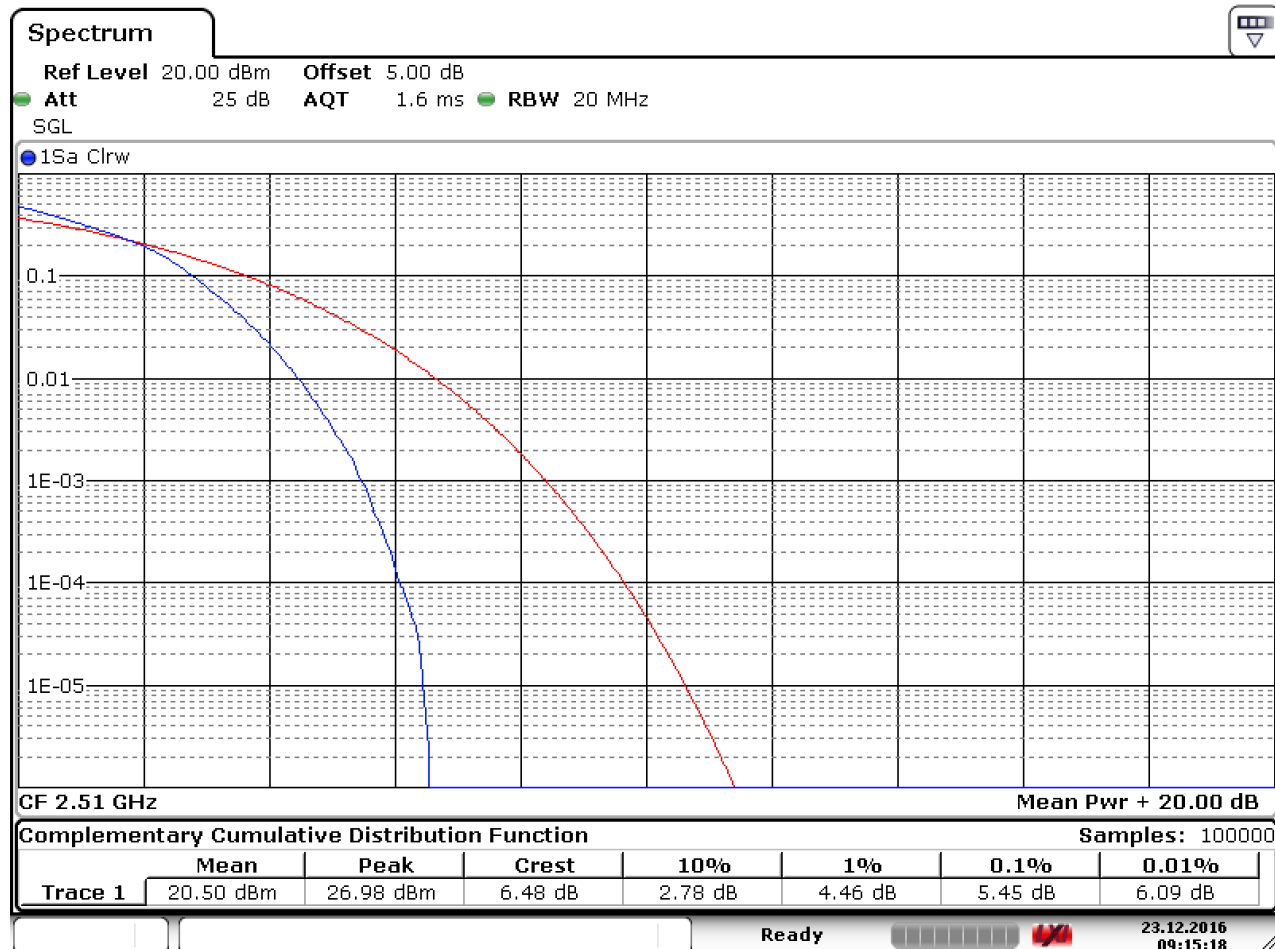


Date: 23.DEC.2016 09:15:54



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

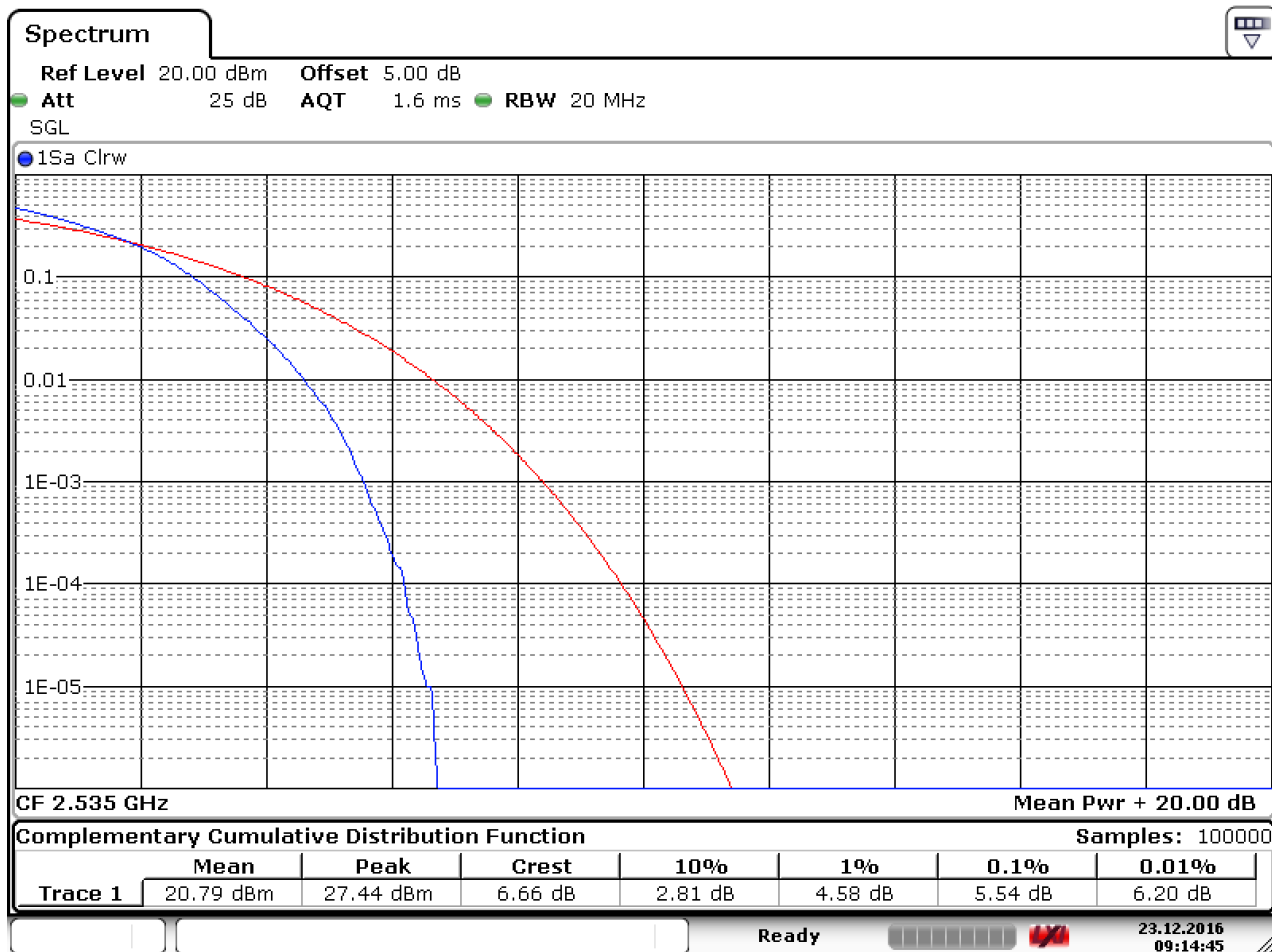
2.1.1.2.1 Test Channel = LCH



Date: 23.DEC.2016 09:15:19



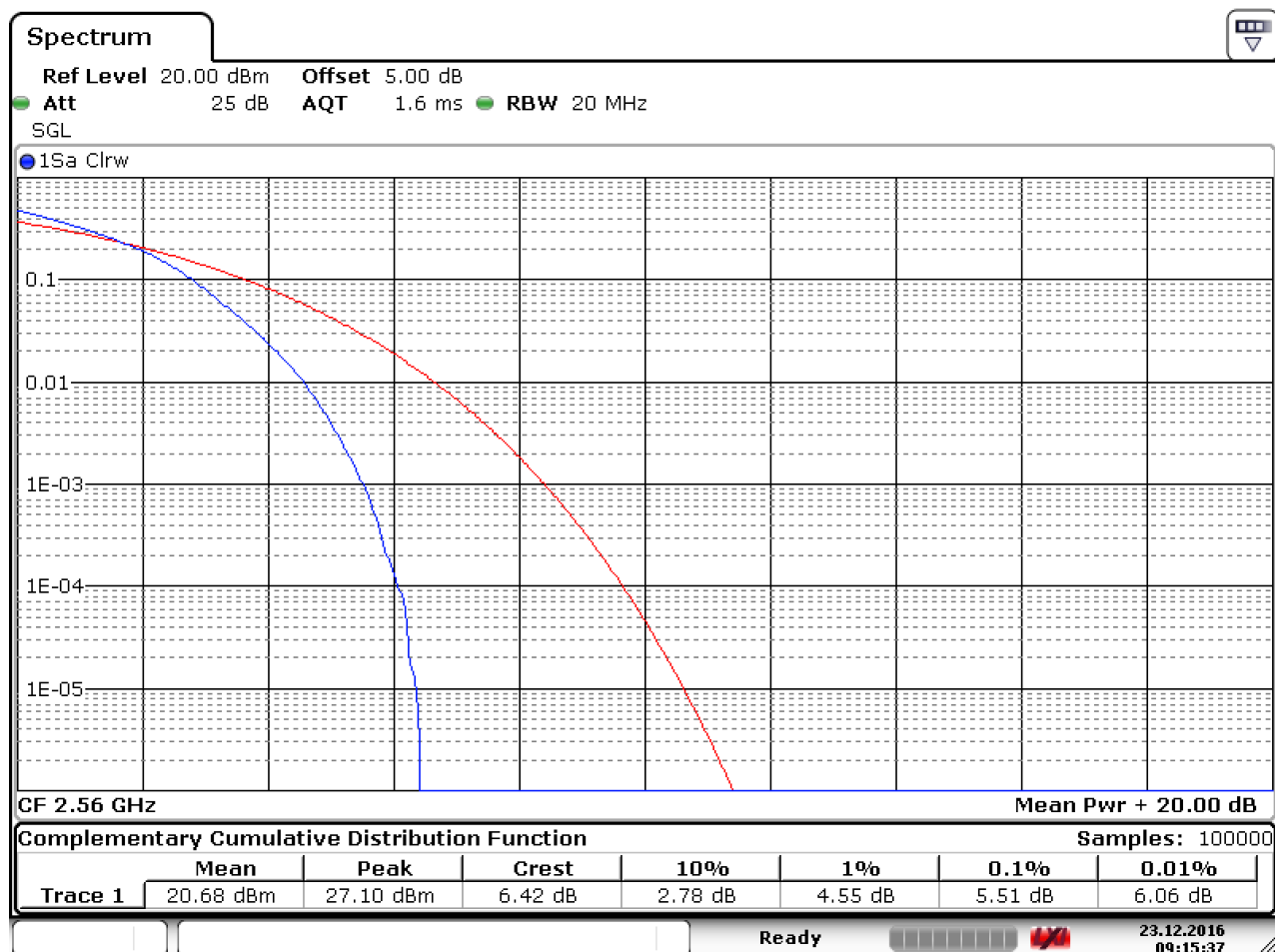
2.1.1.2.2 Test Channel = MCH



Date: 23.DEC.2016 09:14:45



2.1.1.2.3 Test Channel = HCH



Date: 23.DEC.2016 09:15:37

3 Modulation Characteristics

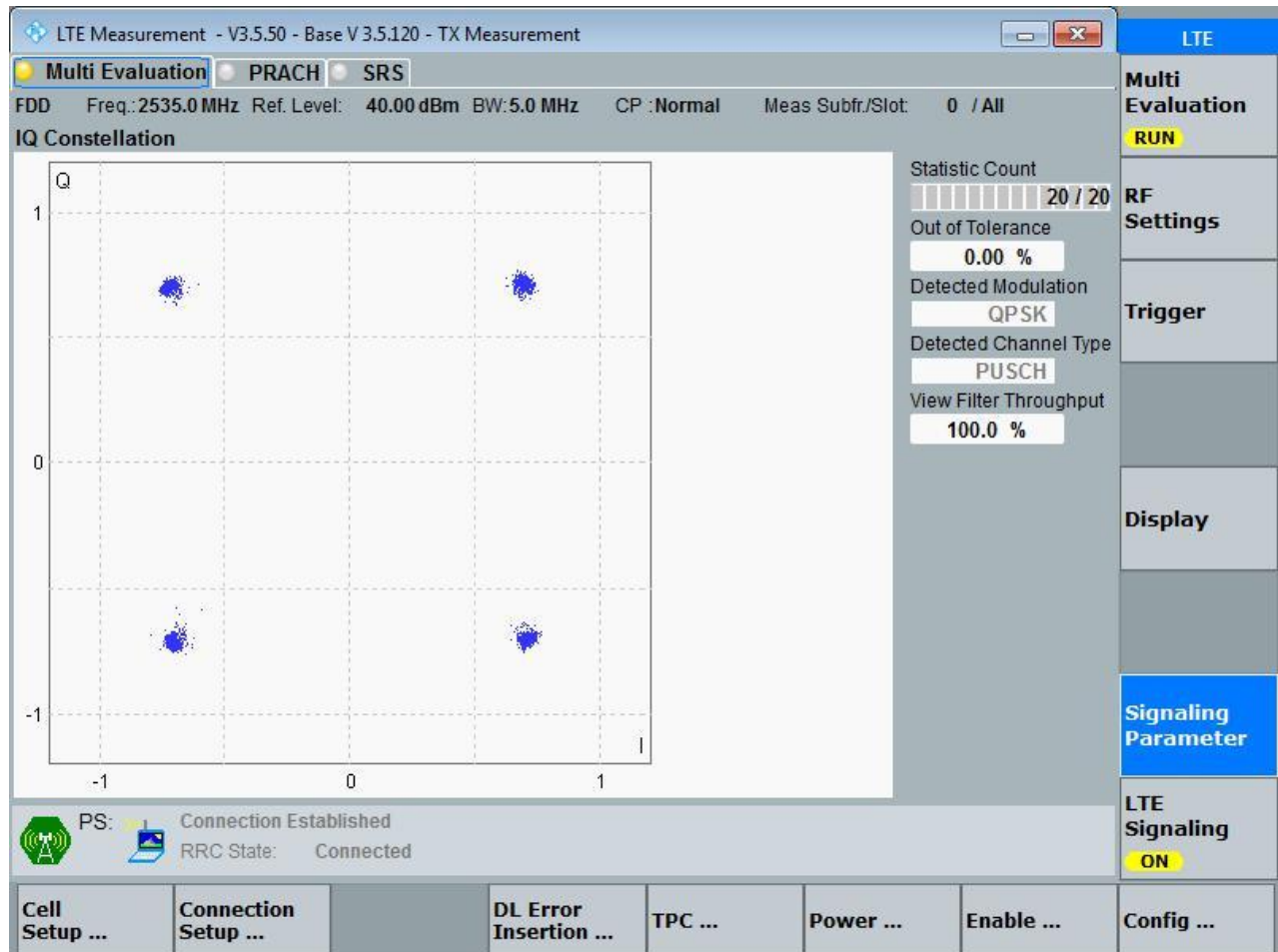
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band7

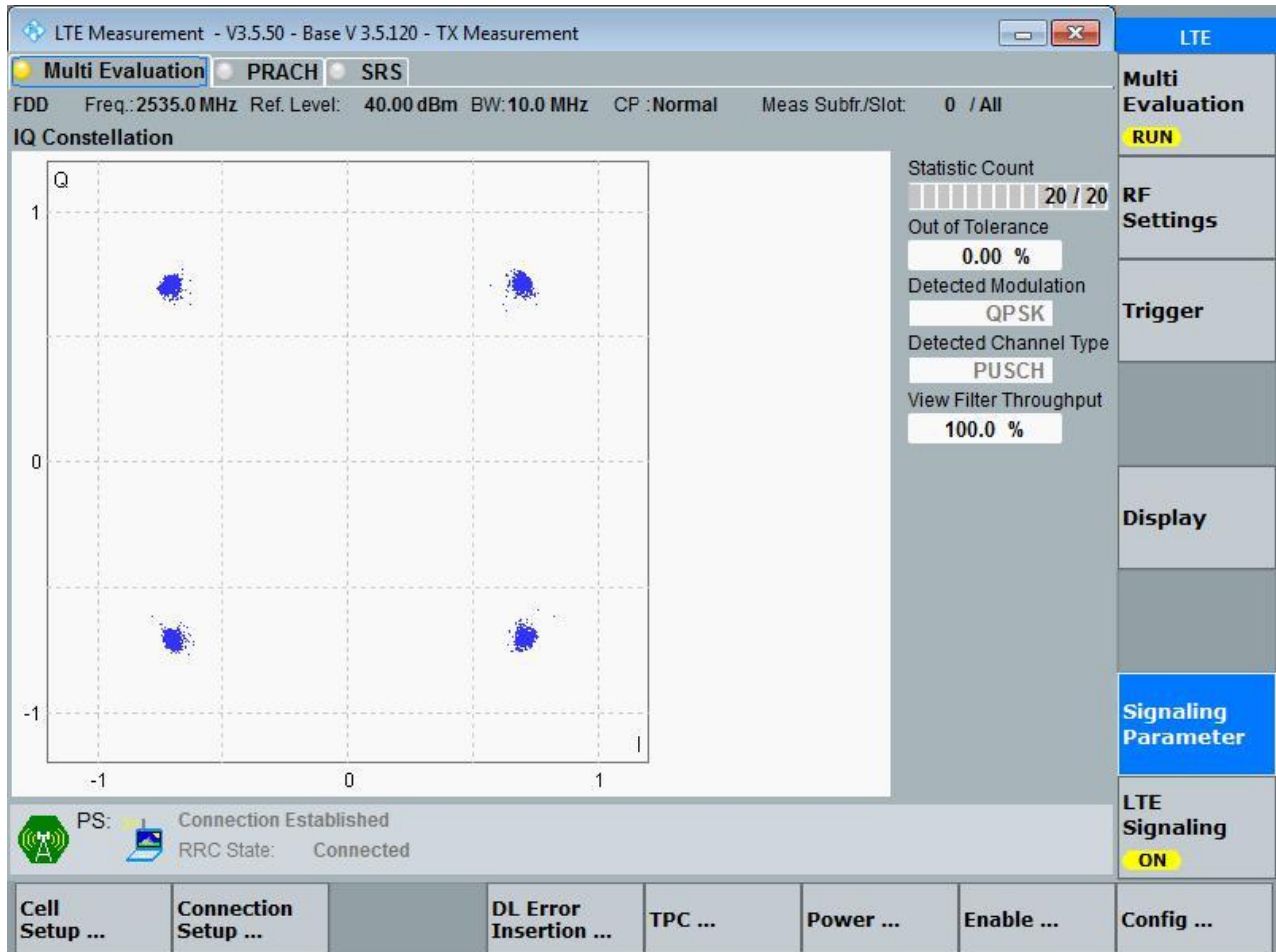
3.1.1.1 Test Mode = LTE /TM1 5MHz

3.1.1.1.1 Test Channel = MCH



3.1.1.2 Test Mode = LTE /TM1 10MHz

3.1.1.2.1 Test Channel = MCH

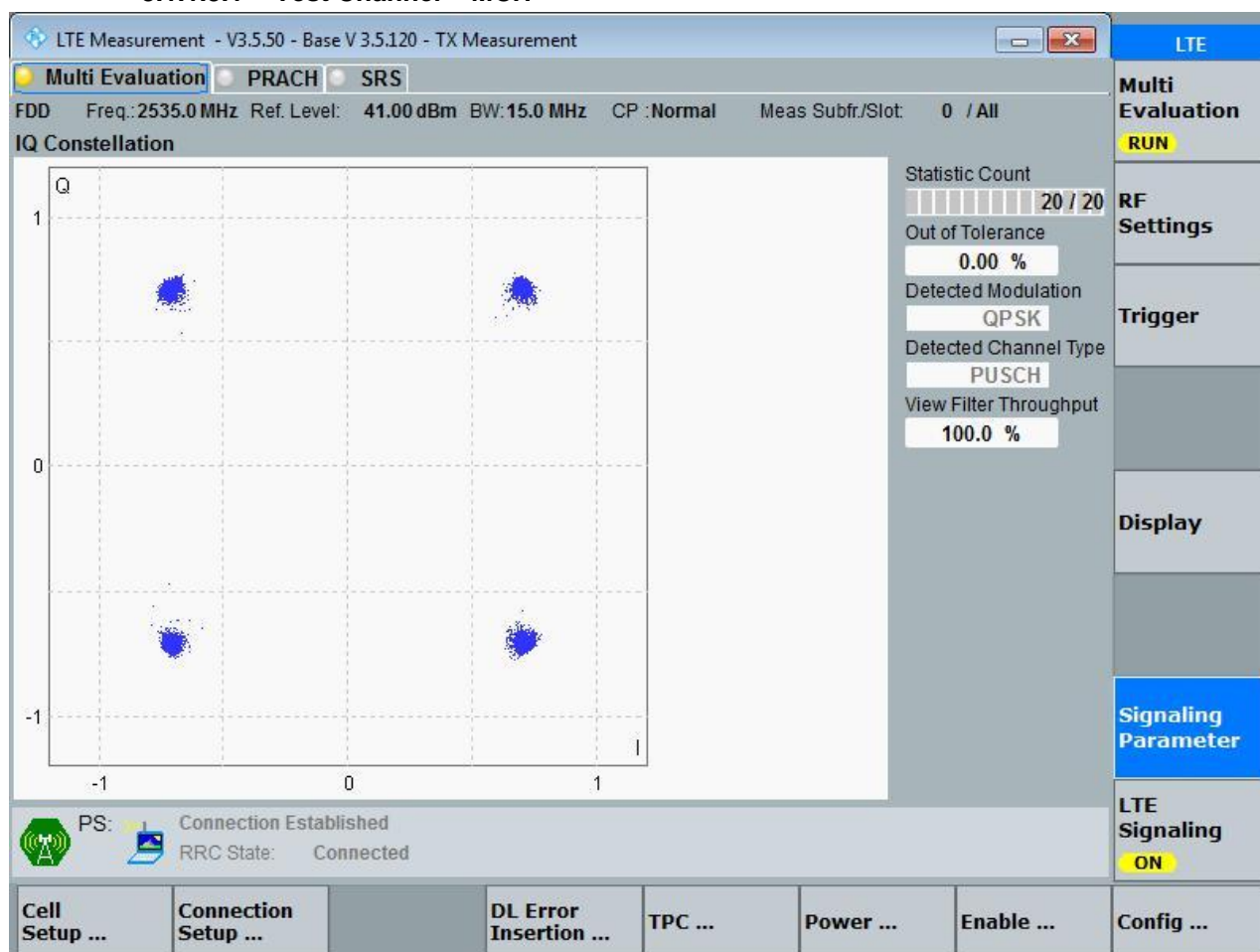


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3.1.1.3 Test Mode = LTE /TM1 15MHz

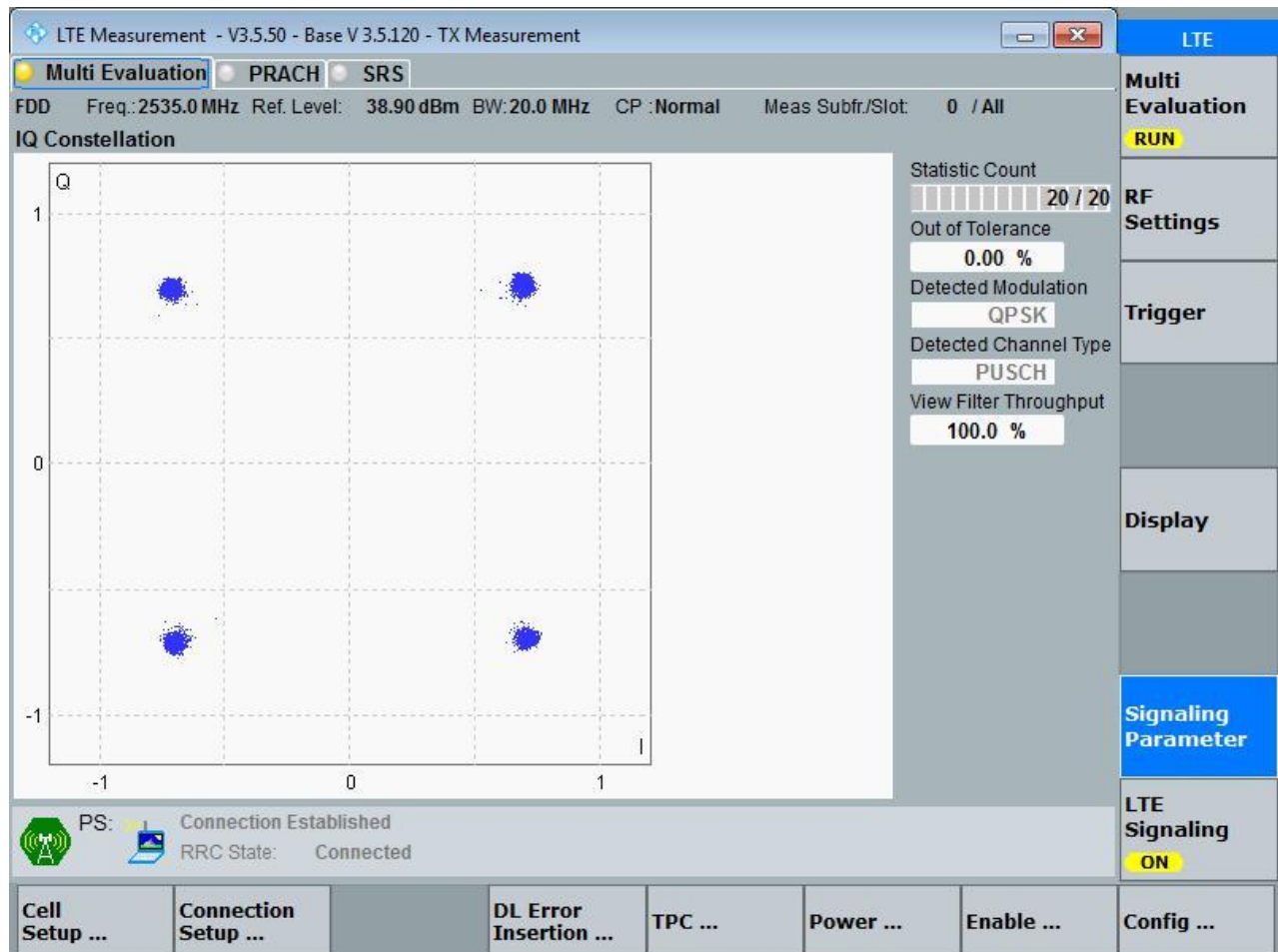
3.1.1.3.1 Test Channel = MCH





3.1.1.4 Test Mode = LTE /TM1 20MHz

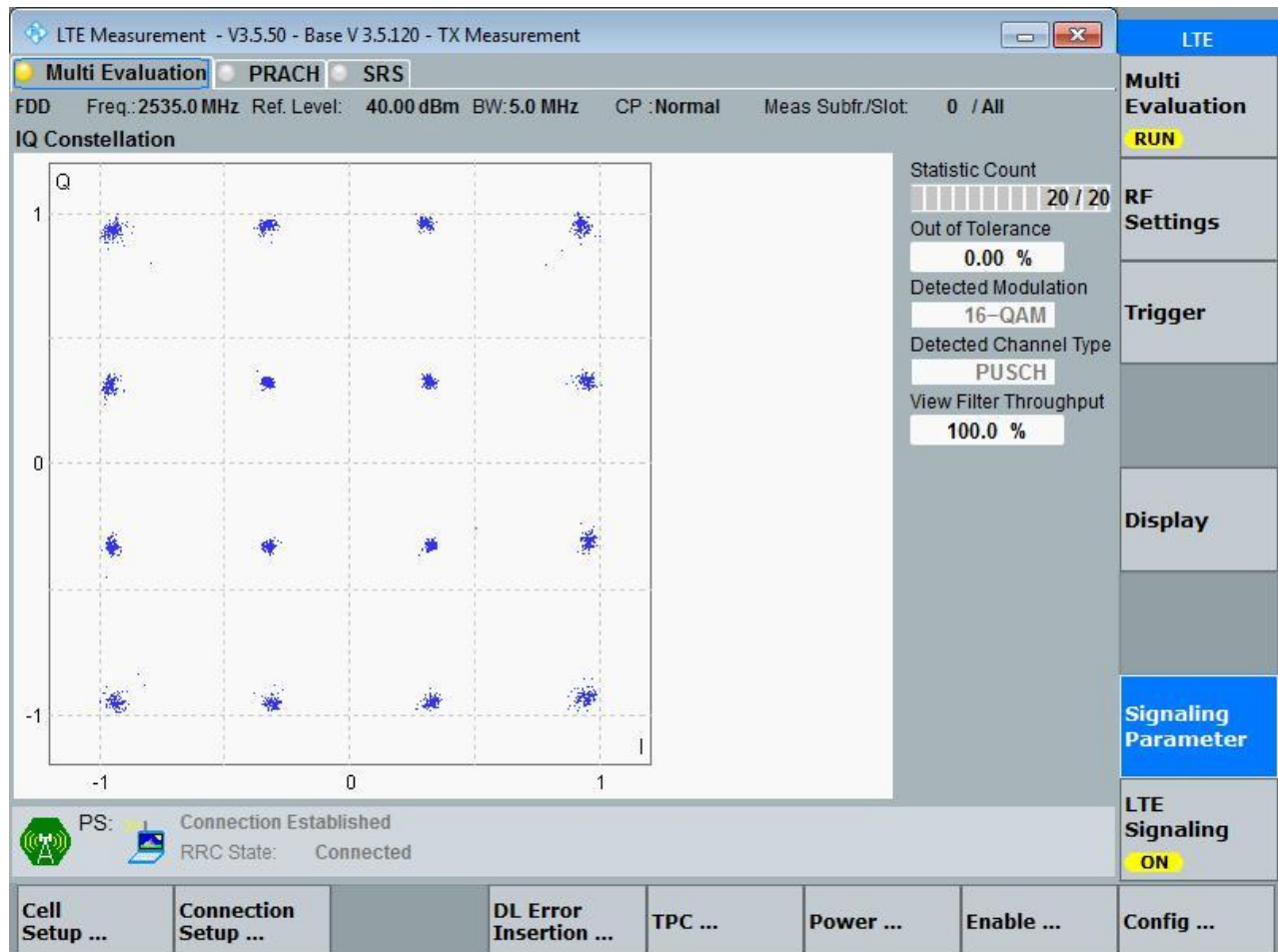
3.1.1.4.1 Test Channel = MCH





3.1.1.5 Test Mode = LTE /TM2 5MHz

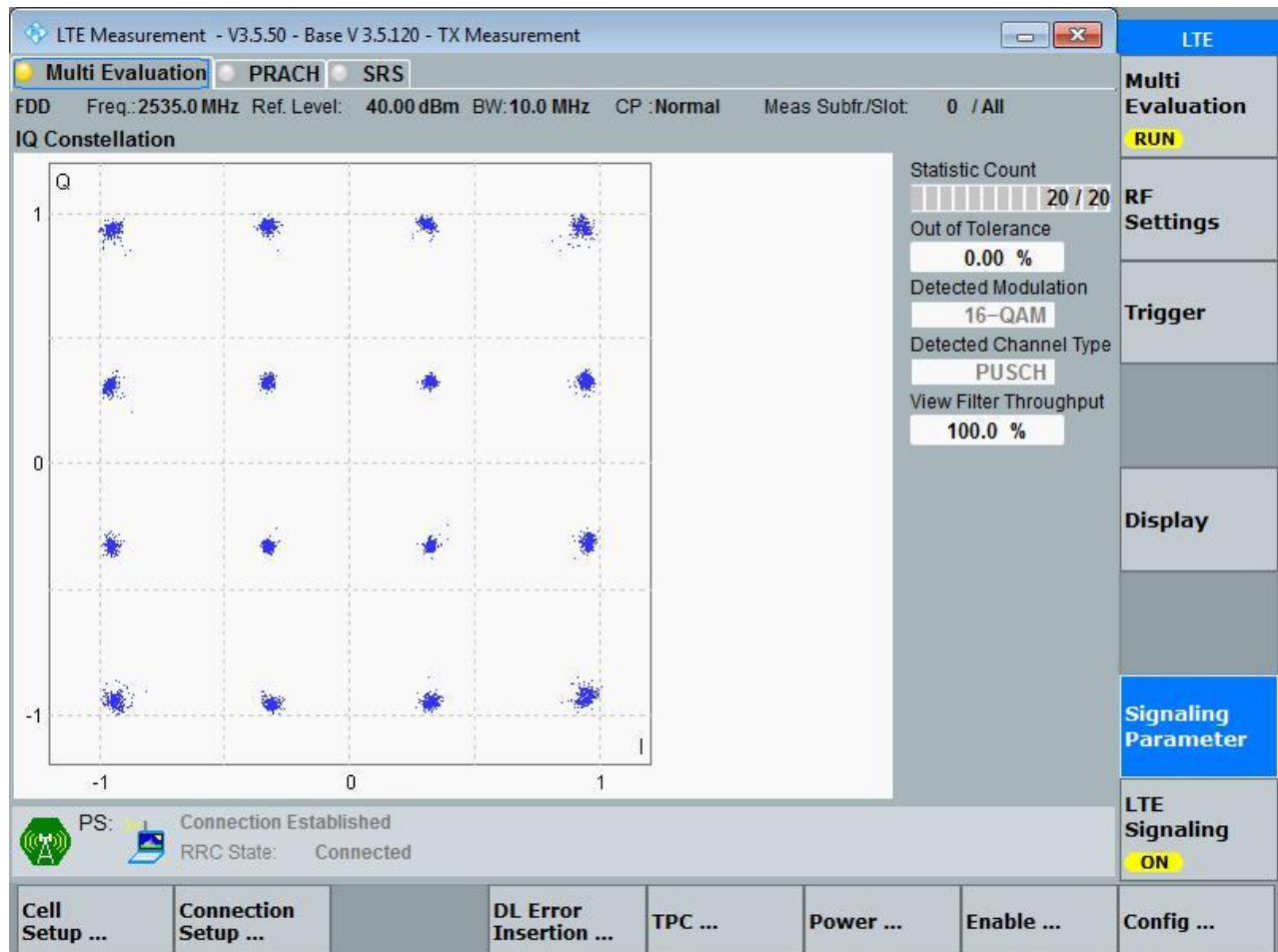
3.1.1.5.1 Test Channel = MCH





3.1.1.6 Test Mode = LTE /TM2 10MHz

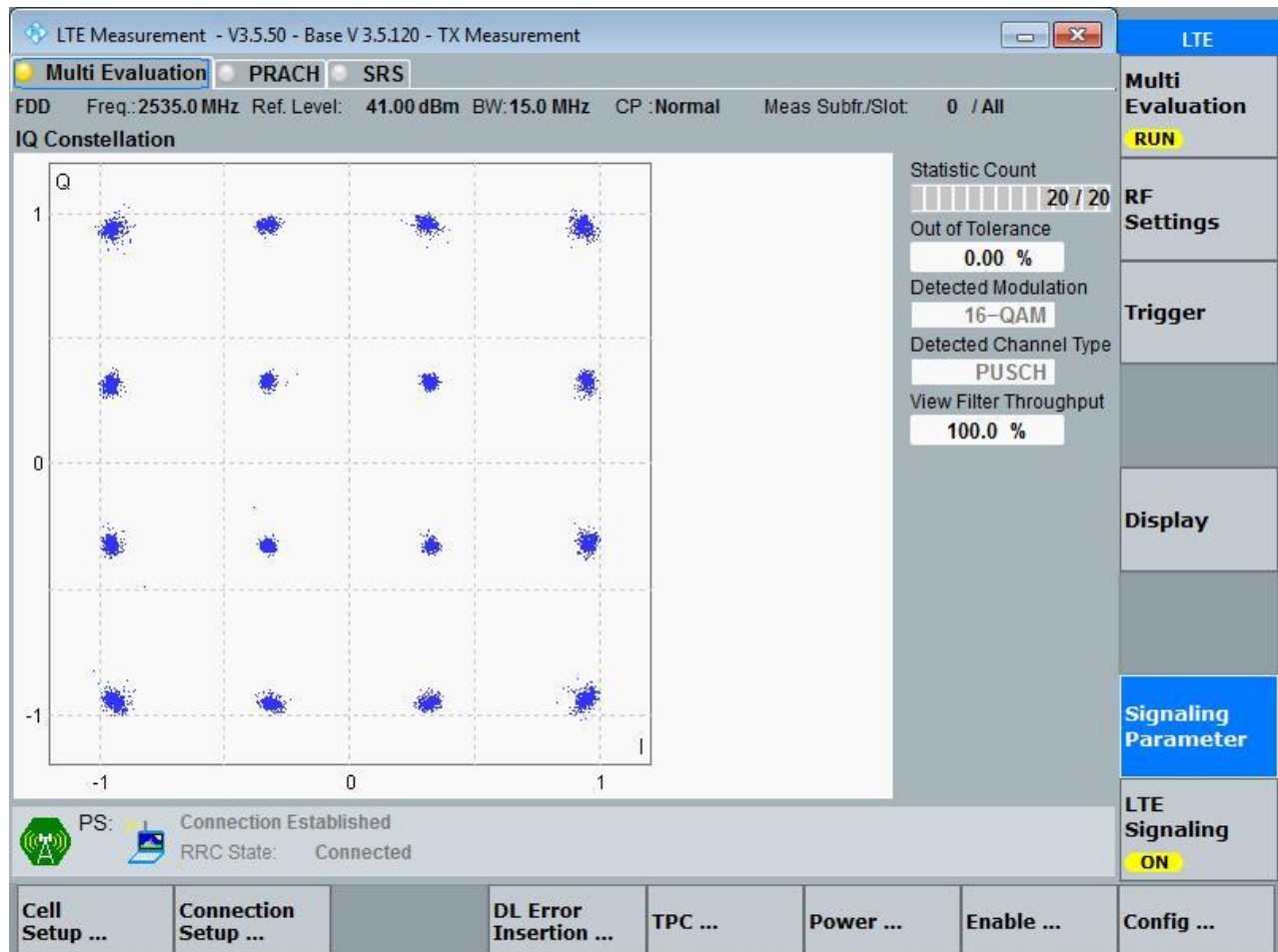
3.1.1.6.1 Test Channel = MCH





3.1.1.7 Test Mode = LTE /TM2 15MHz

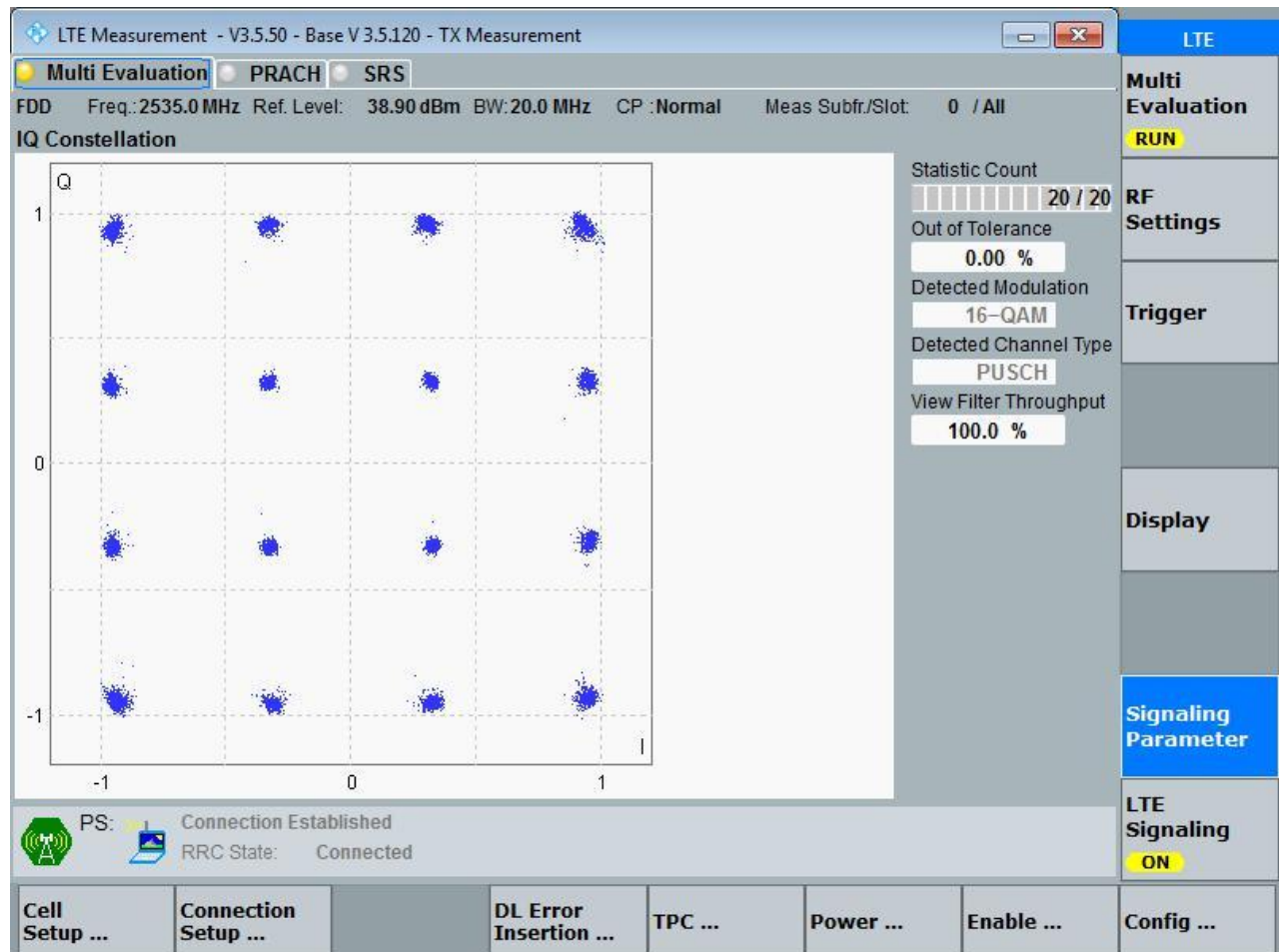
3.1.1.7.1 Test Channel = MCH





3.1.1.8 Test Mode = LTE /TM2 20MHz

3.1.1.8.1 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	4.50	5.00	PASS
		MCH	4.50	5.00	PASS
		HCH	4.48	5.00	PASS
	TM2/ 5MHz	LCH	4.50	5.00	PASS
		MCH	4.49	4.95	PASS
		HCH	4.49	5.00	PASS
	TM1/10MHz	LCH	8.95	9.73	PASS
		MCH	8.97	9.88	PASS
		HCH	8.95	9.79	PASS
	TM2/ 10MHz	LCH	8.95	9.77	PASS
		MCH	8.95	9.66	PASS
		HCH	8.97	9.75	PASS
	TM1/ 15MHz	LCH	13.49	15.02	PASS
		MCH	13.49	14.98	PASS
		HCH	13.49	15.02	PASS
	TM2/ 15MHz	LCH	13.55	14.90	PASS
		MCH	13.49	14.83	PASS
		HCH	13.49	14.99	PASS
	TM1/ 20MHz	LCH	17.94	19.62	PASS
		MCH	17.94	19.42	PASS
		HCH	17.98	19.66	PASS
	TM2/ 20MHz	LCH	17.98	19.74	PASS
		MCH	17.94	19.46	PASS
		HCH	17.90	19.46	PASS

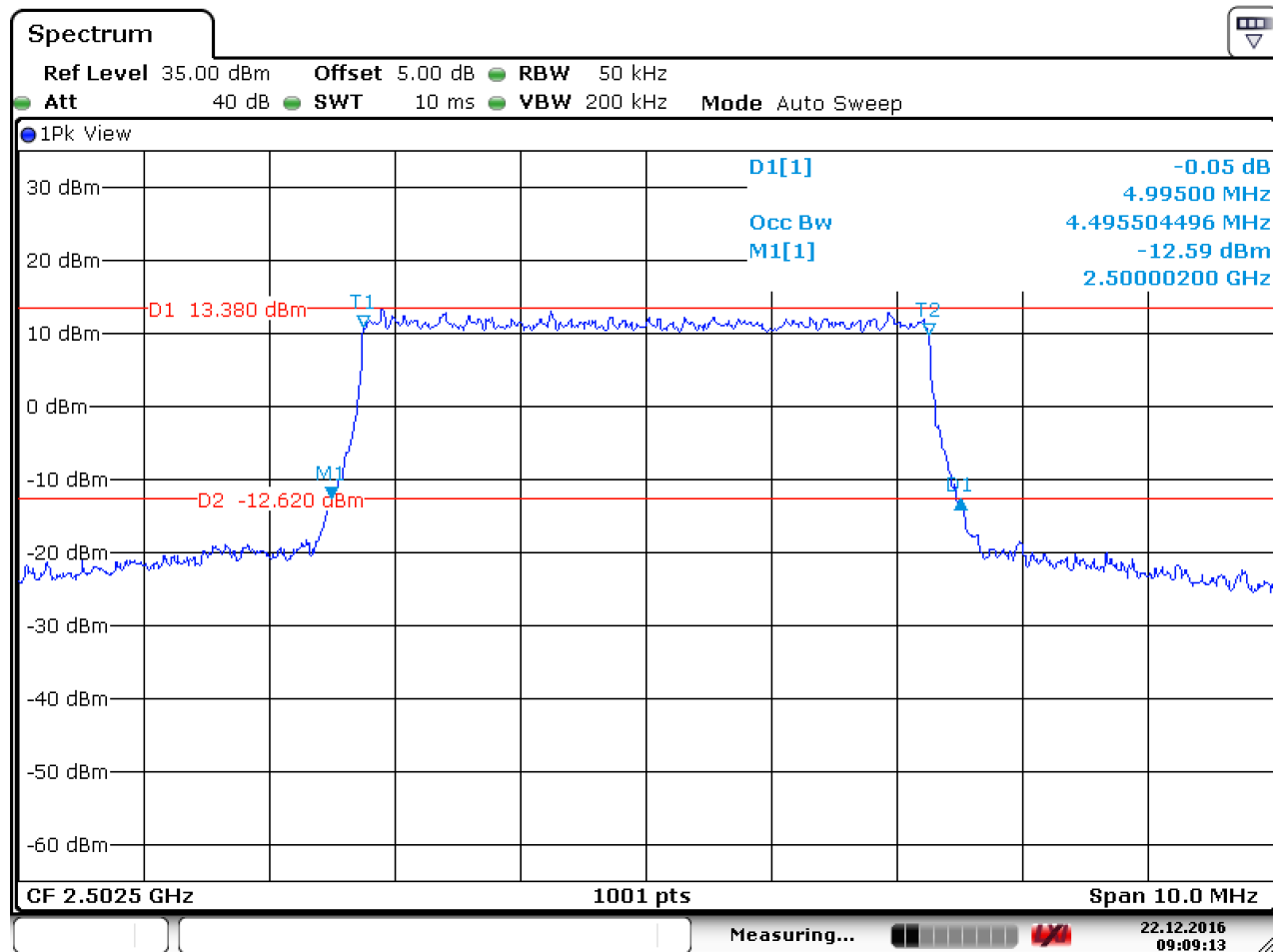


4.1 For LTE

4.1.1 Test Band = LTE band7

4.1.1.1 Test Mode = LTE/TM1 5MHz

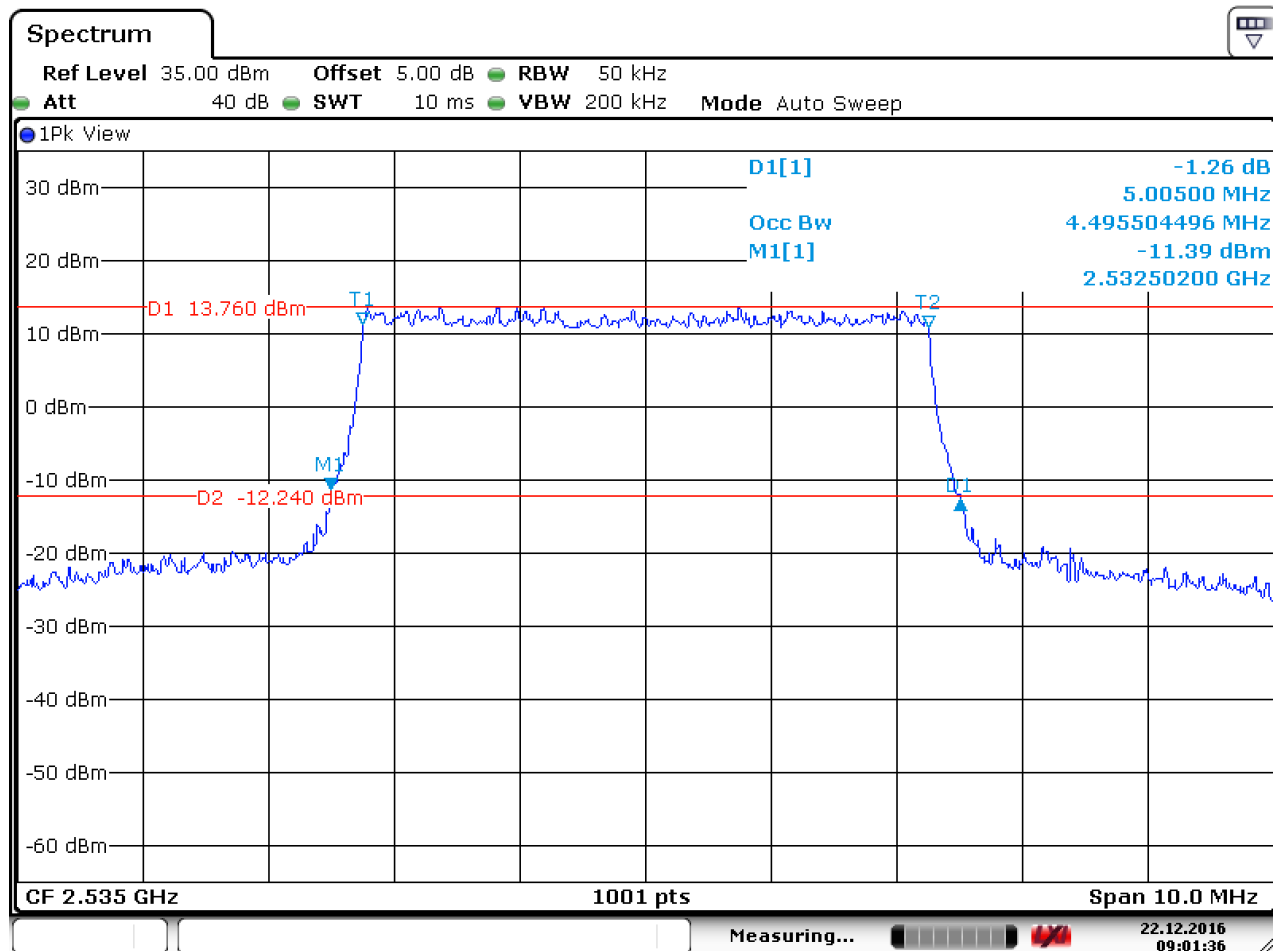
4.1.1.1.1 Test Channel = LCH



Date: 22.DEC.2016 09:09:14



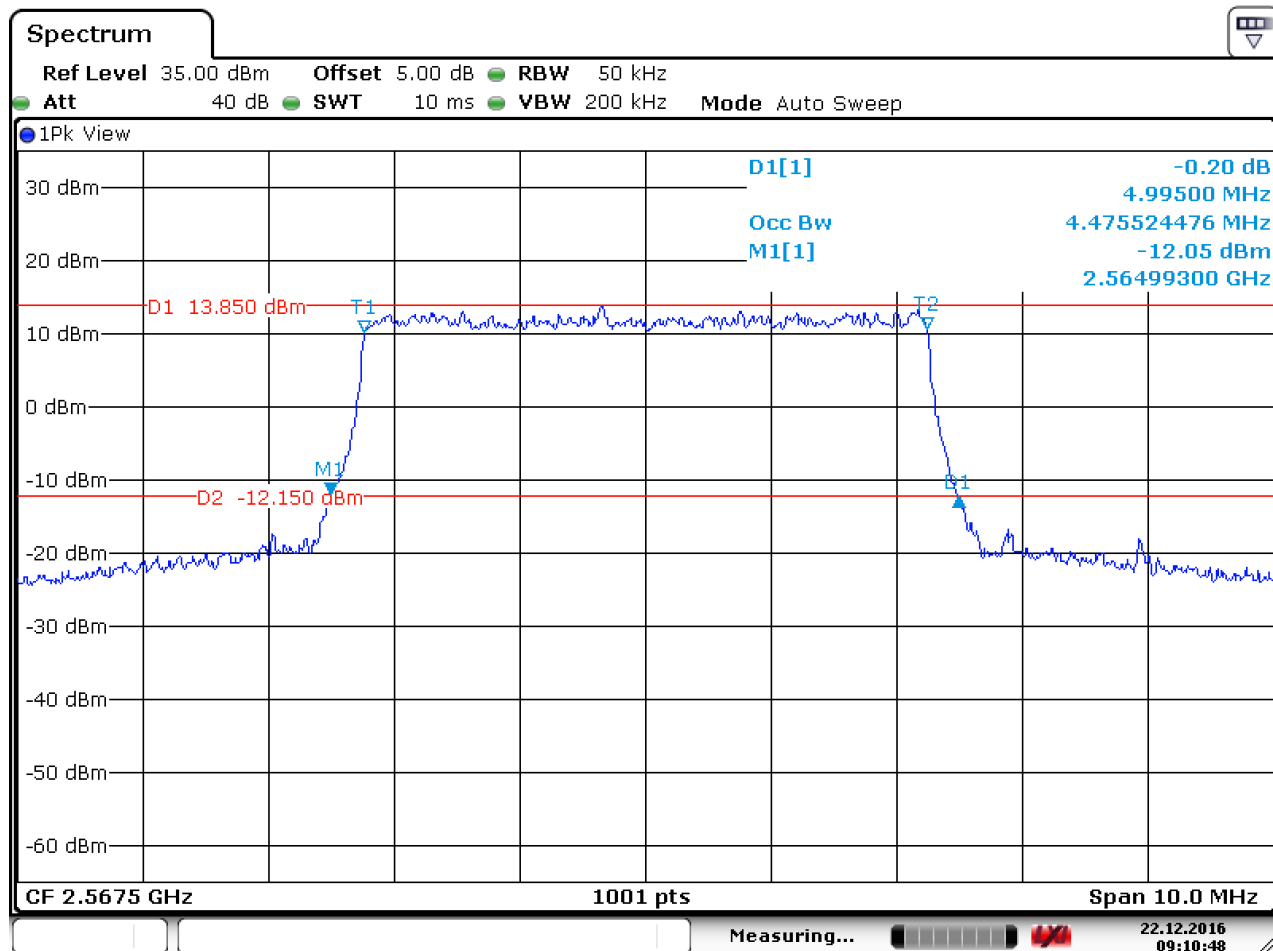
4.1.1.1.2 Test Channel = MCH



Date: 22.DEC.2016 09:01:37



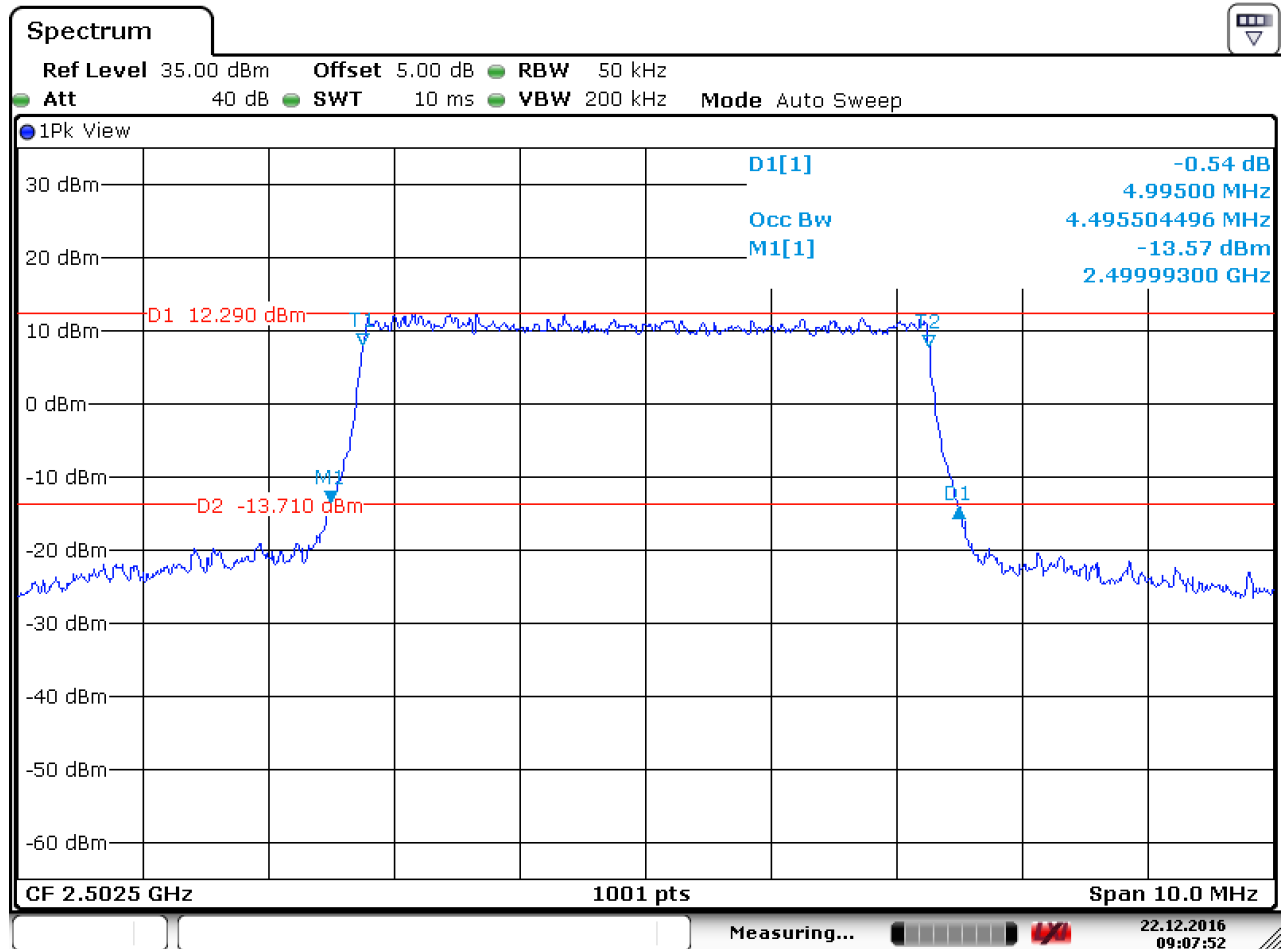
4.1.1.1.3 Test Channel = HCH



Date: 22.DEC.2016 09:10:48

4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH



Date: 22.DEC.2016 09:07:52

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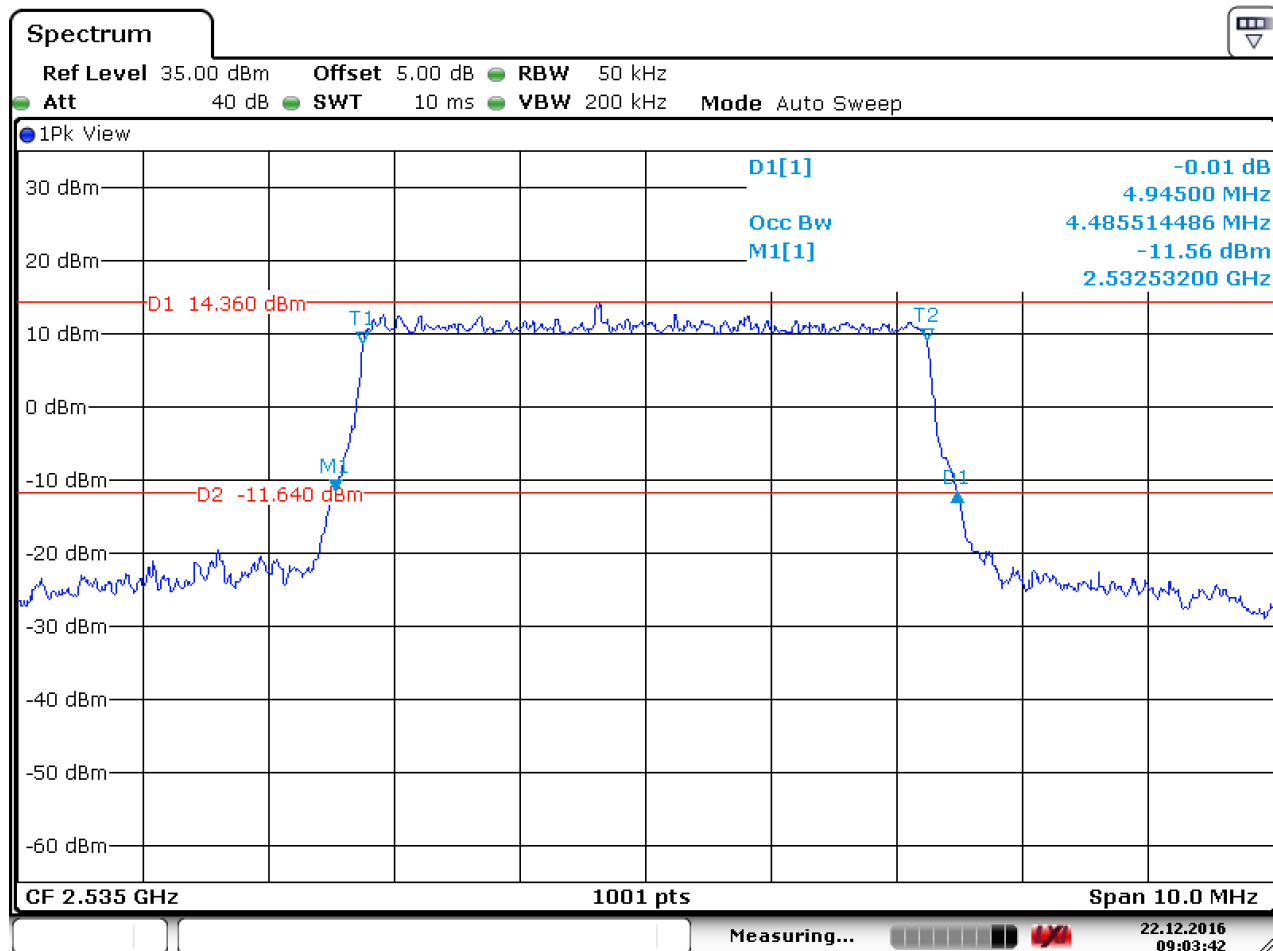


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4.1.1.2.2 Test Channel = MCH



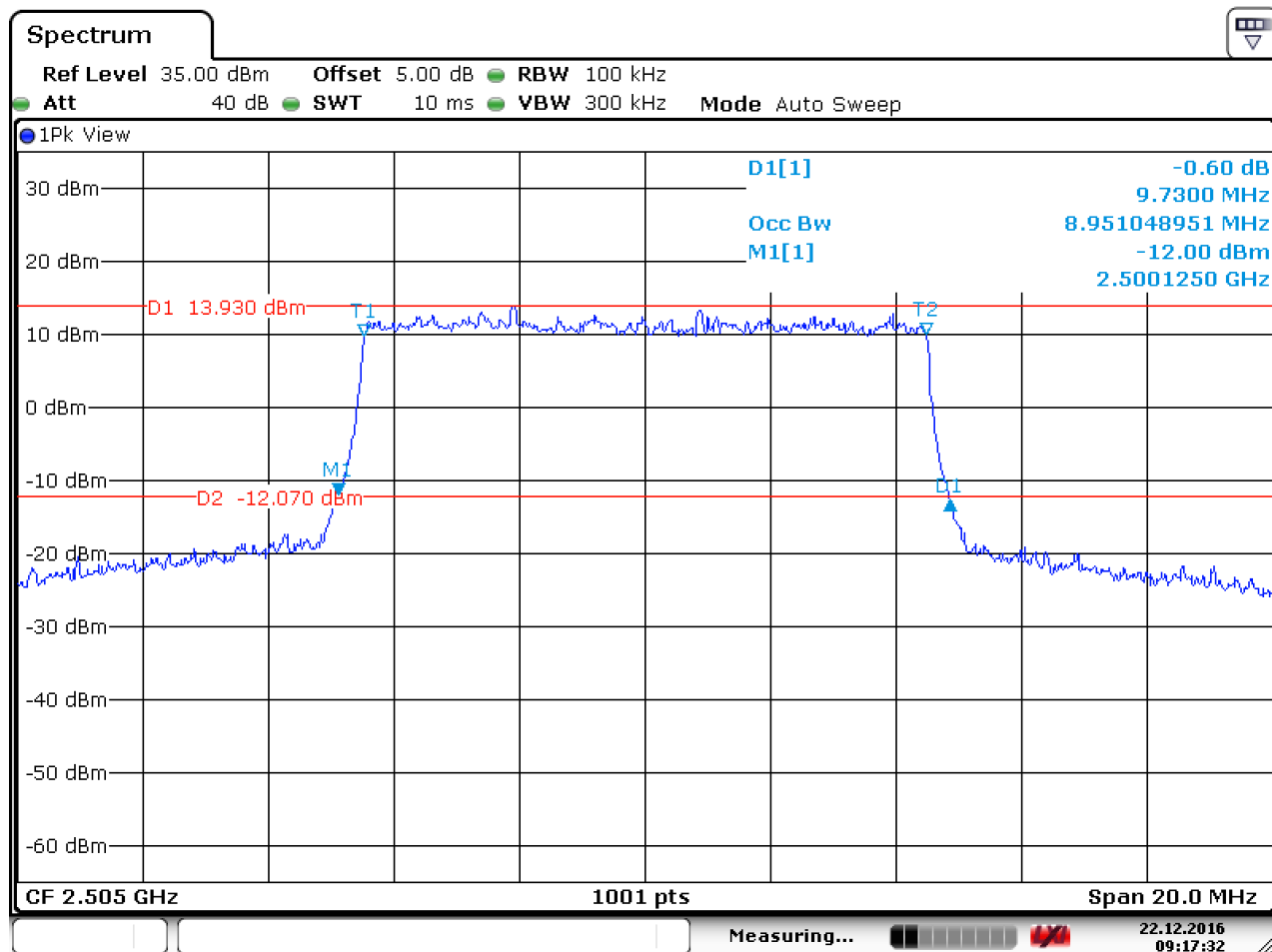
Date: 22.DEC.2016 09:03:42

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4.1.1.3 Test Mode = LTE/TM1 10MHz

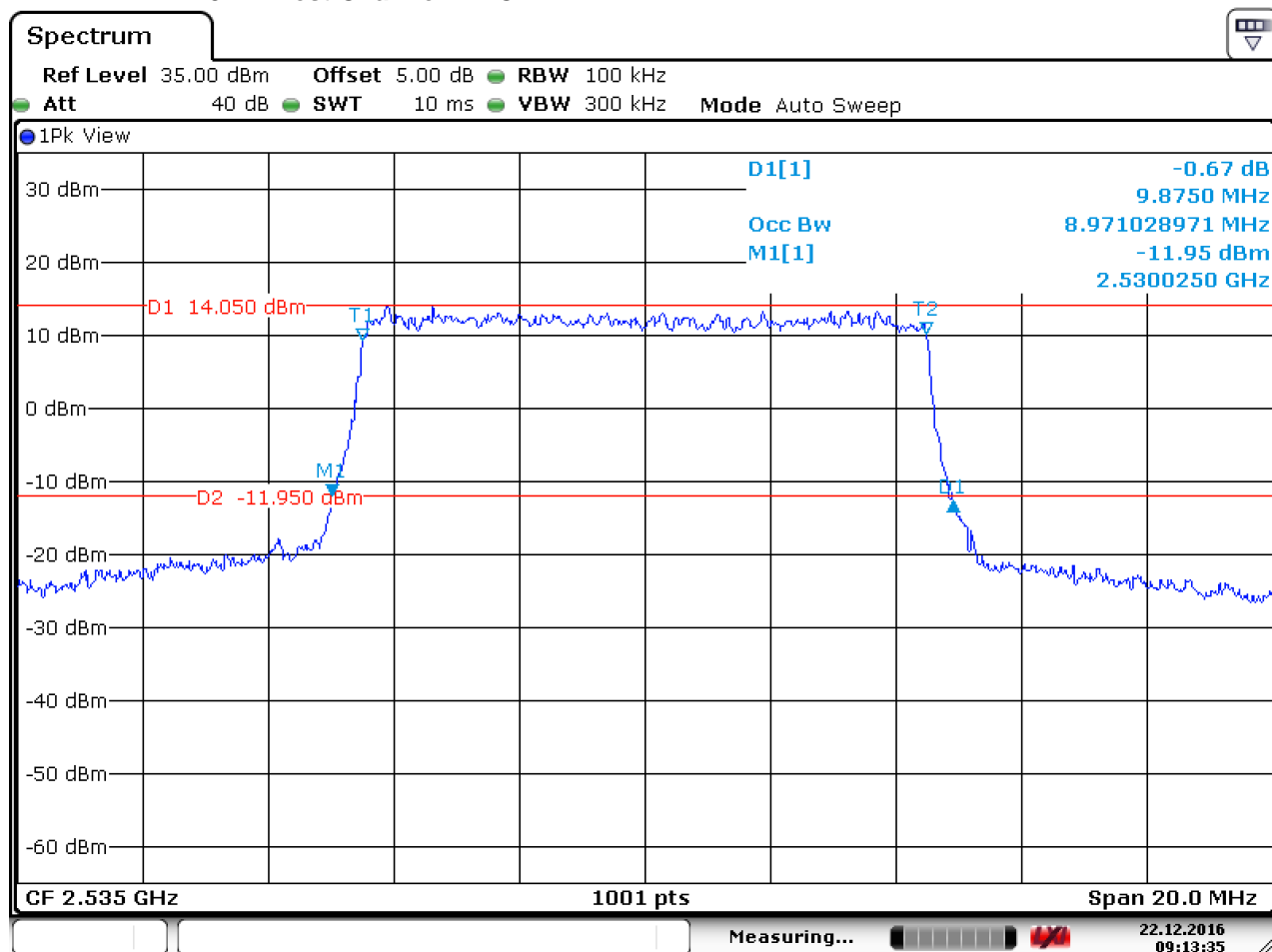
4.1.1.3.1 Test Channel = LCH



Date: 22.DEC.2016 09:17:32



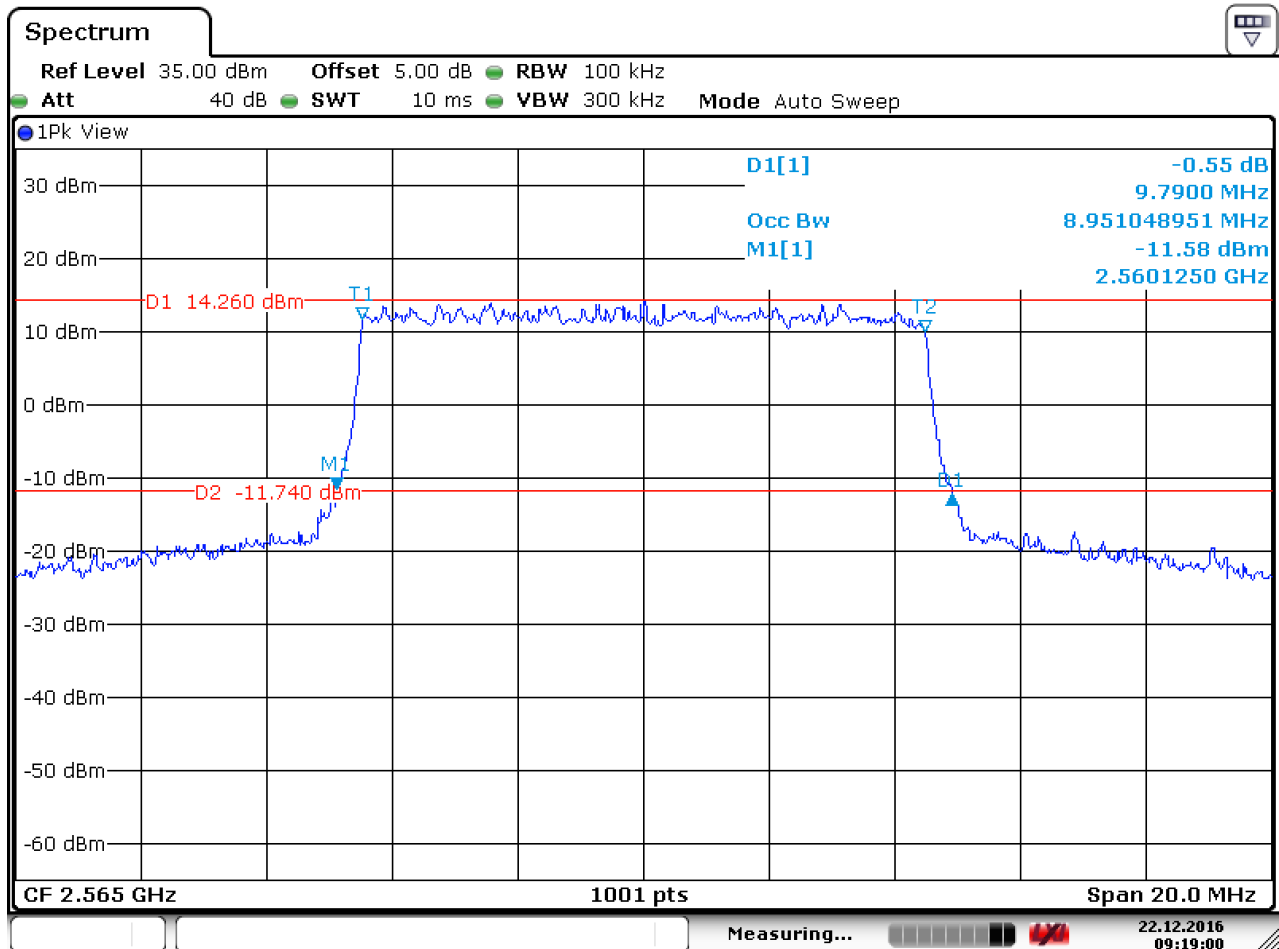
4.1.1.3.2 Test Channel = MCH



Date: 22.DEC.2016 09:13:35



4.1.1.3.3 Test Channel = HCH

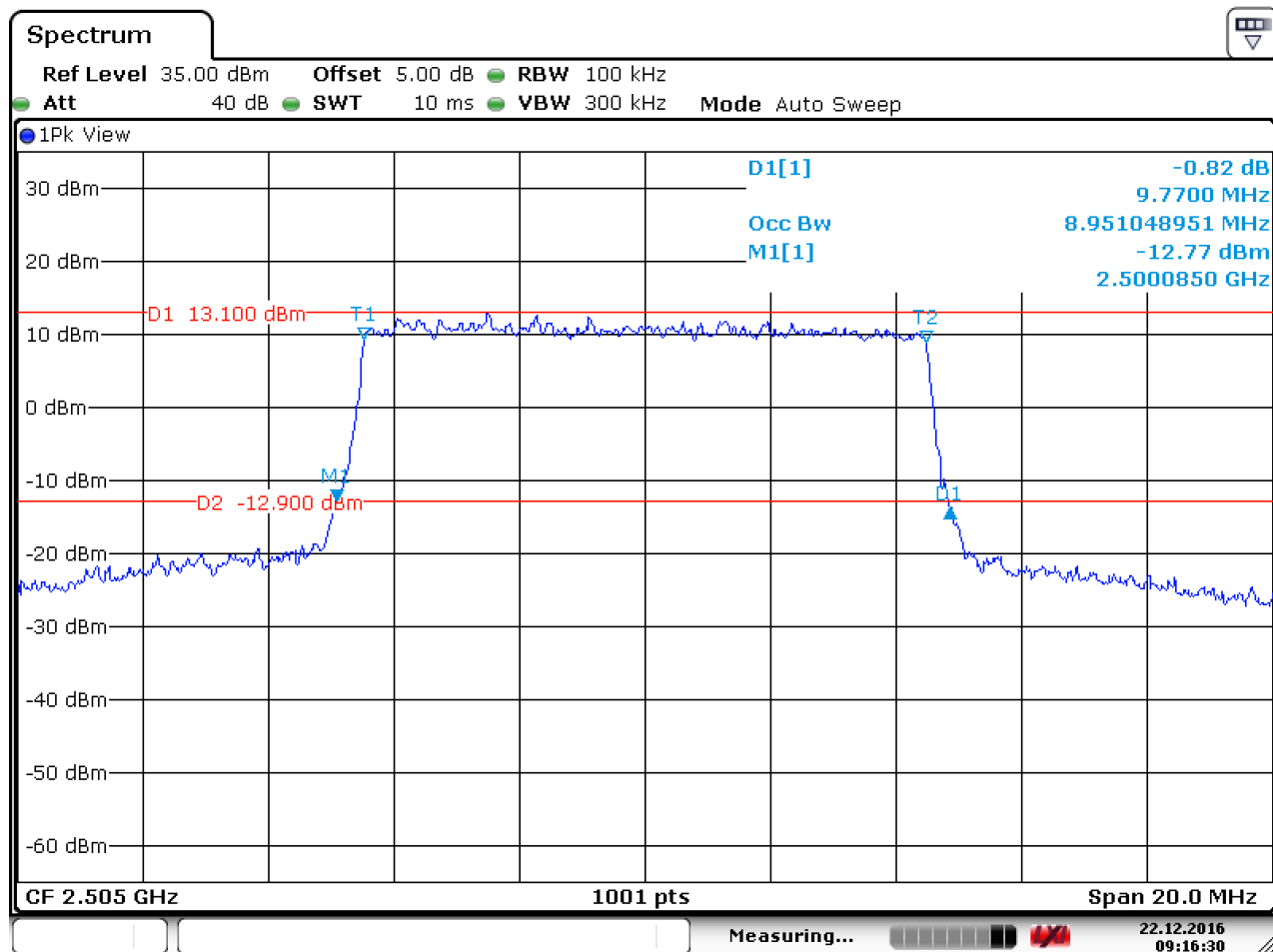


Date: 22.DEC.2016 09:19:00



4.1.1.4 Test Mode = LTE/TM2 10MHz

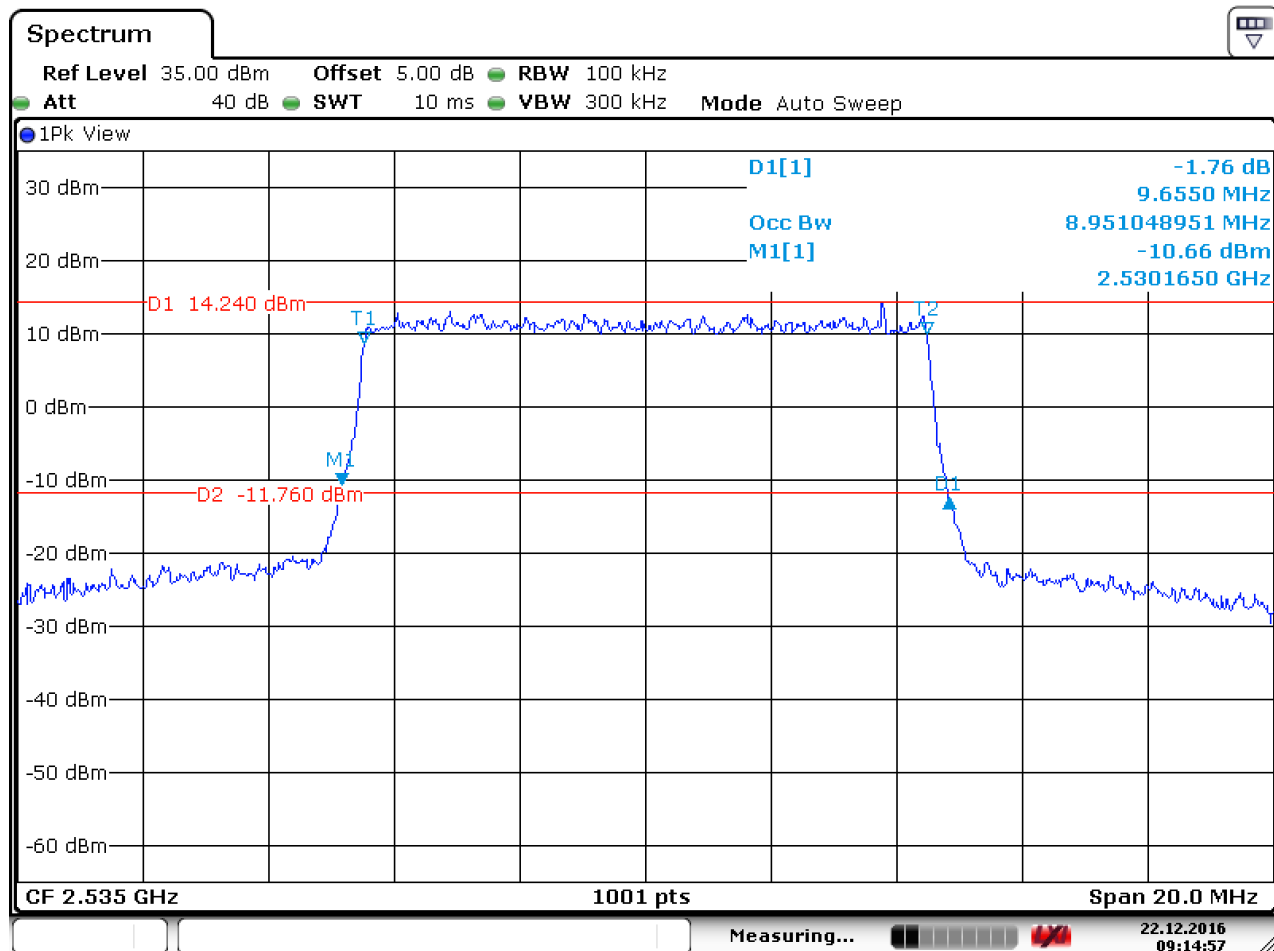
4.1.1.4.1 Test Channel = LCH



Date: 22.DEC.2016 09:16:31



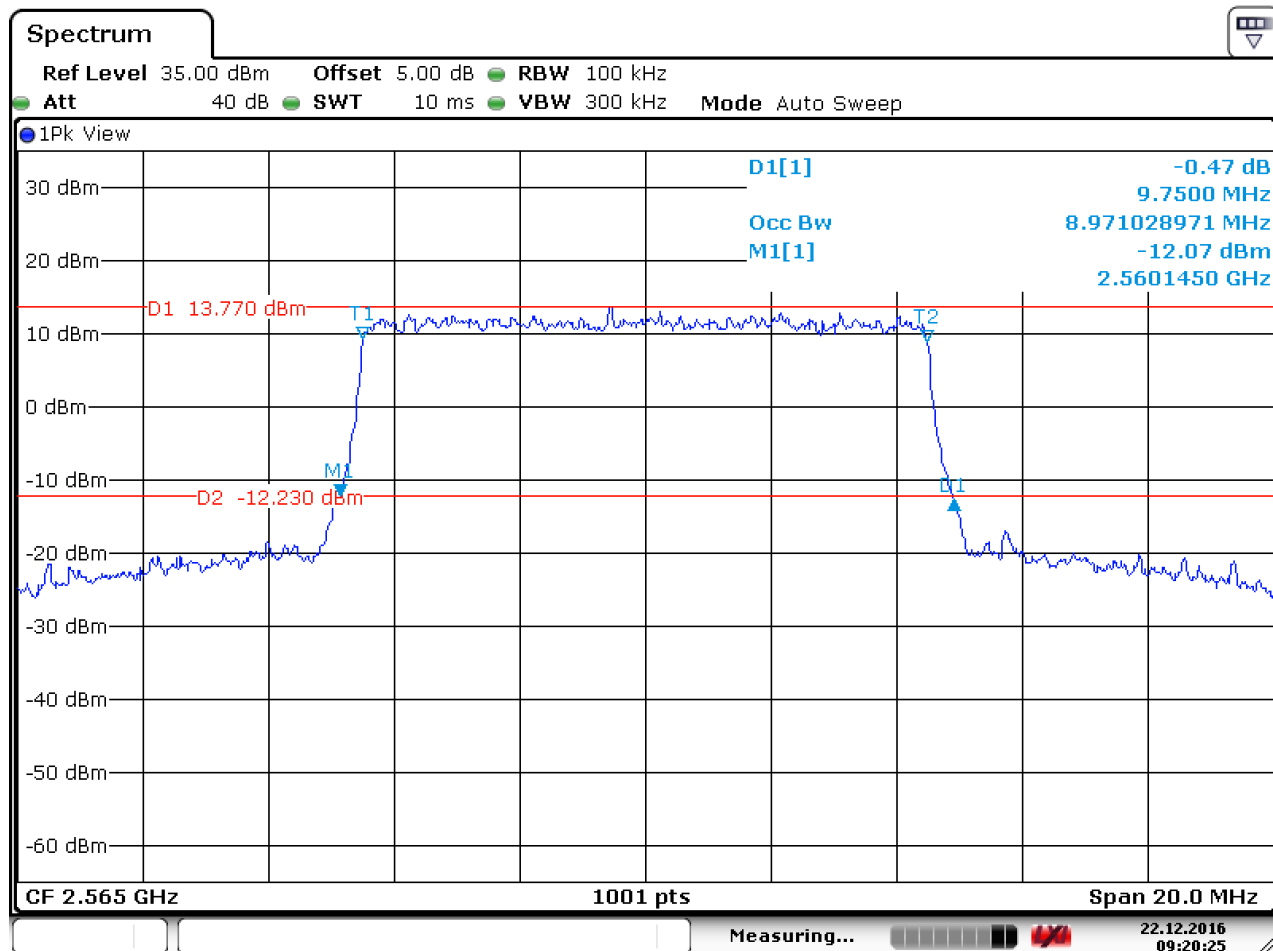
4.1.1.4.2 Test Channel = MCH



Date: 22.DEC.2016 09:14:58



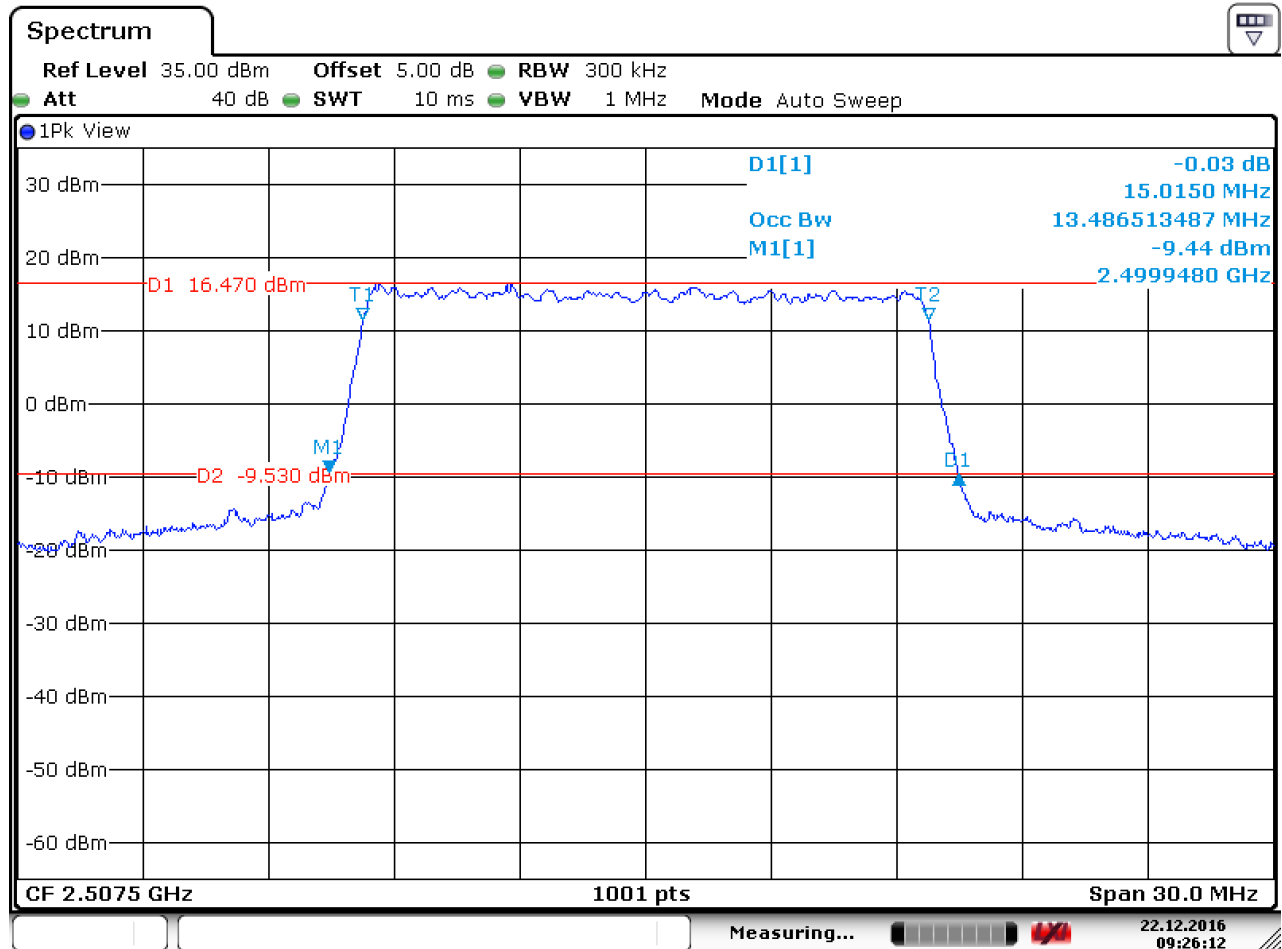
4.1.1.4.3 Test Channel = HCH



Date: 22.DEC.2016 09:20:25

4.1.1.5 Test Mode = LTE/TM1 15MHz

4.1.1.5.1 Test Channel = LCH

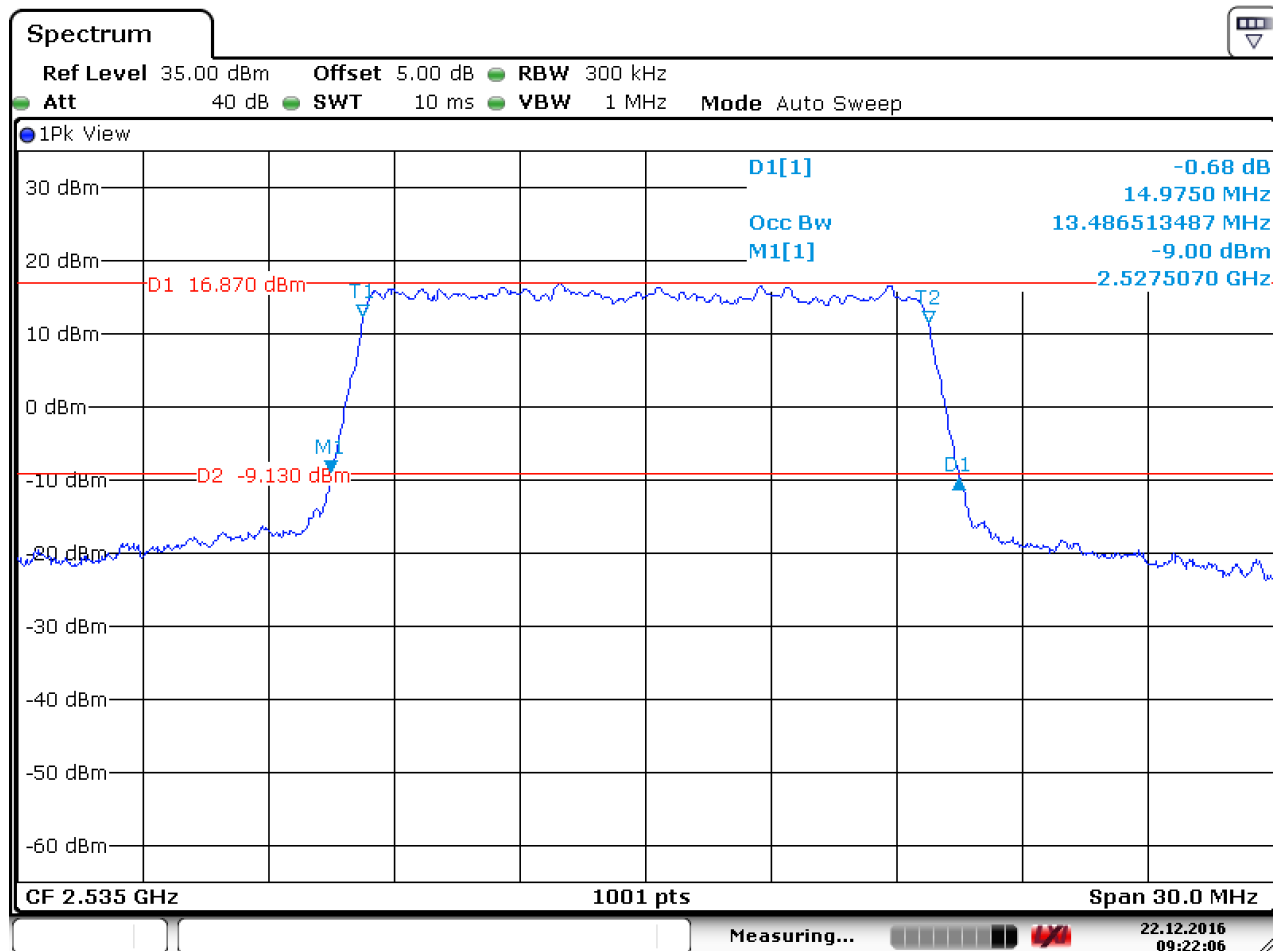


Date: 22.DEC.2016 09:26:11

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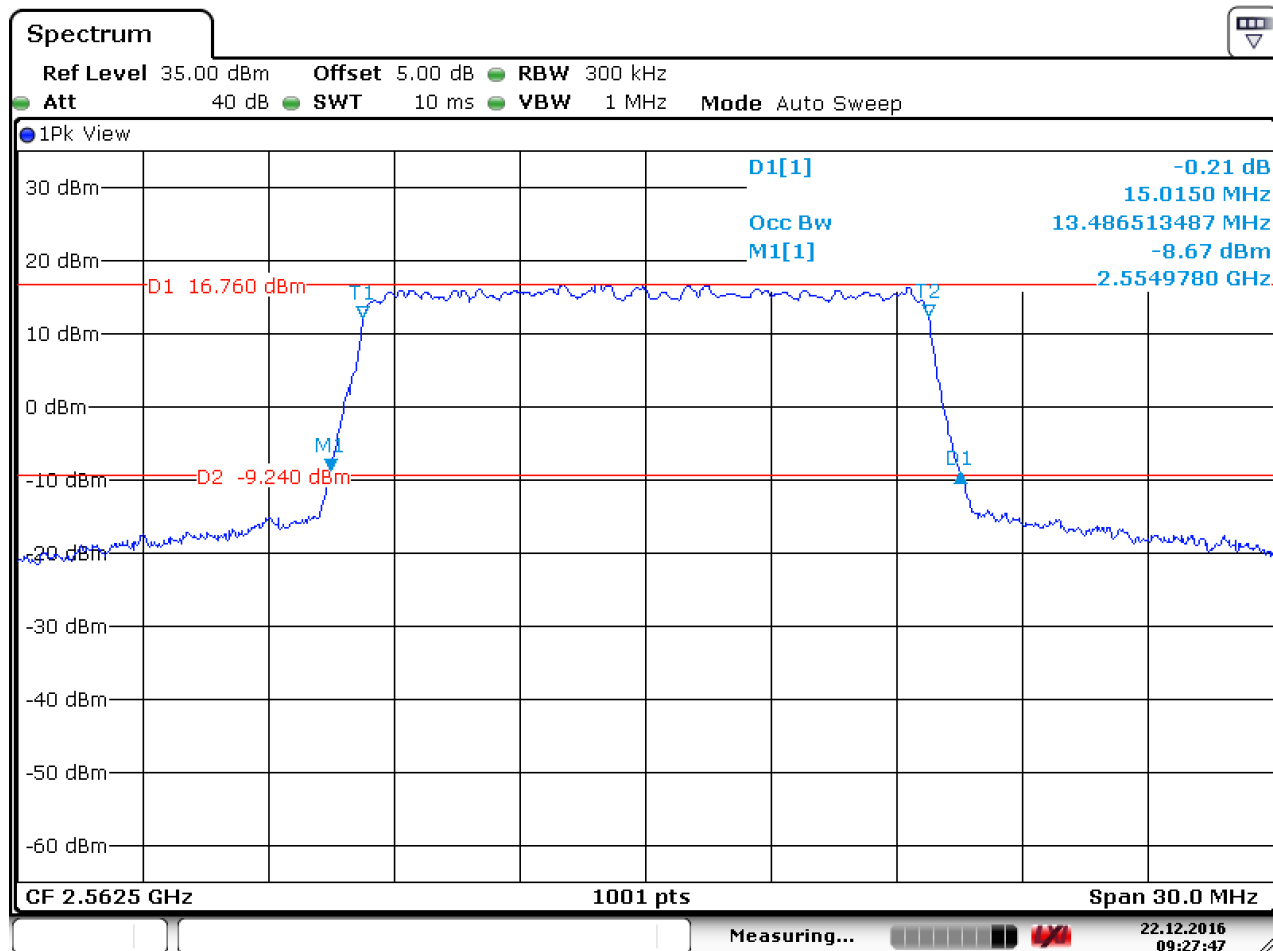
4.1.1.5.2 Test Channel = MCH



Date: 22.DEC.2016 09:22:06



4.1.1.5.3 Test Channel = HCH

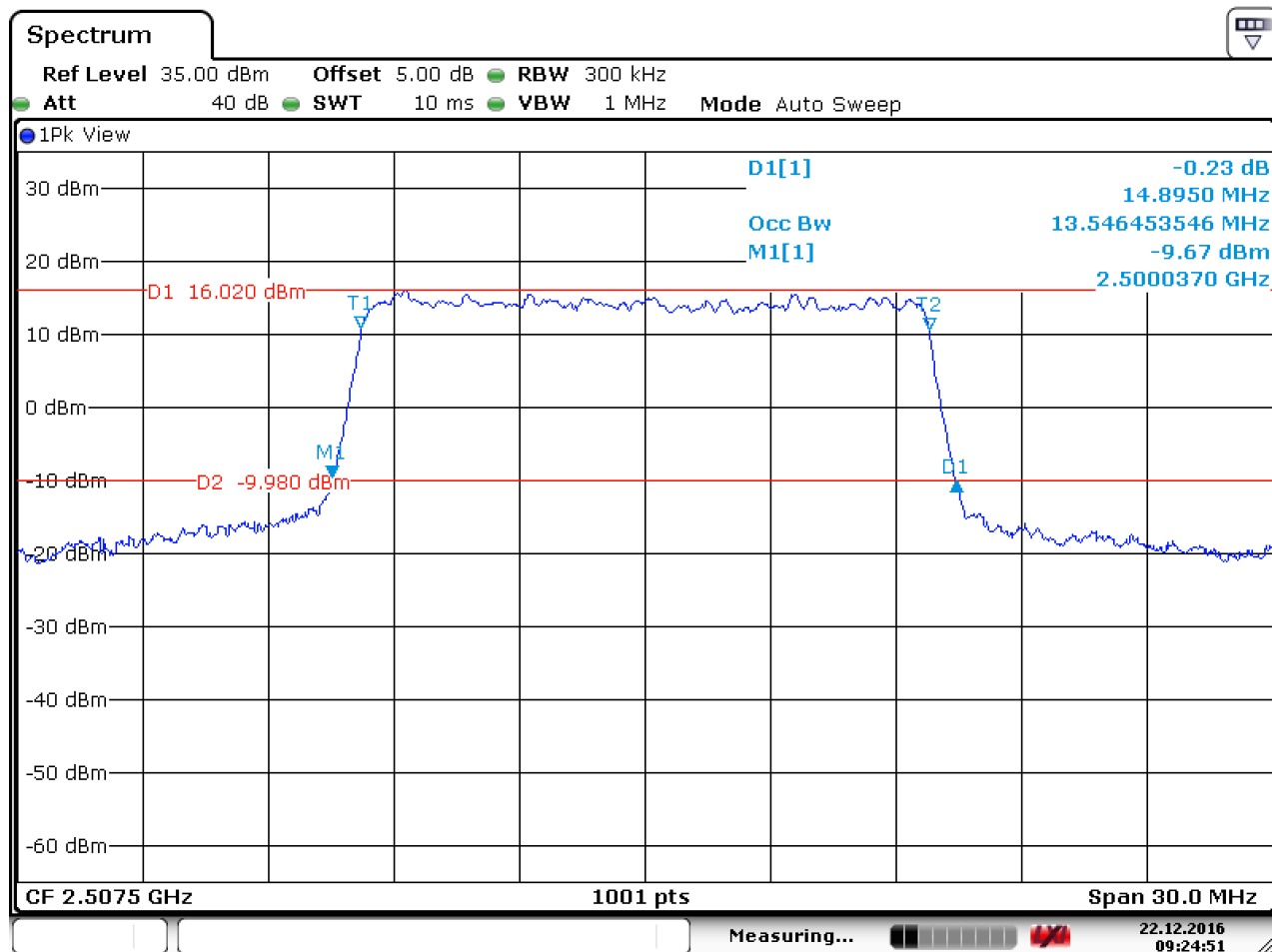


Date: 22.DEC.2016 09:27:47



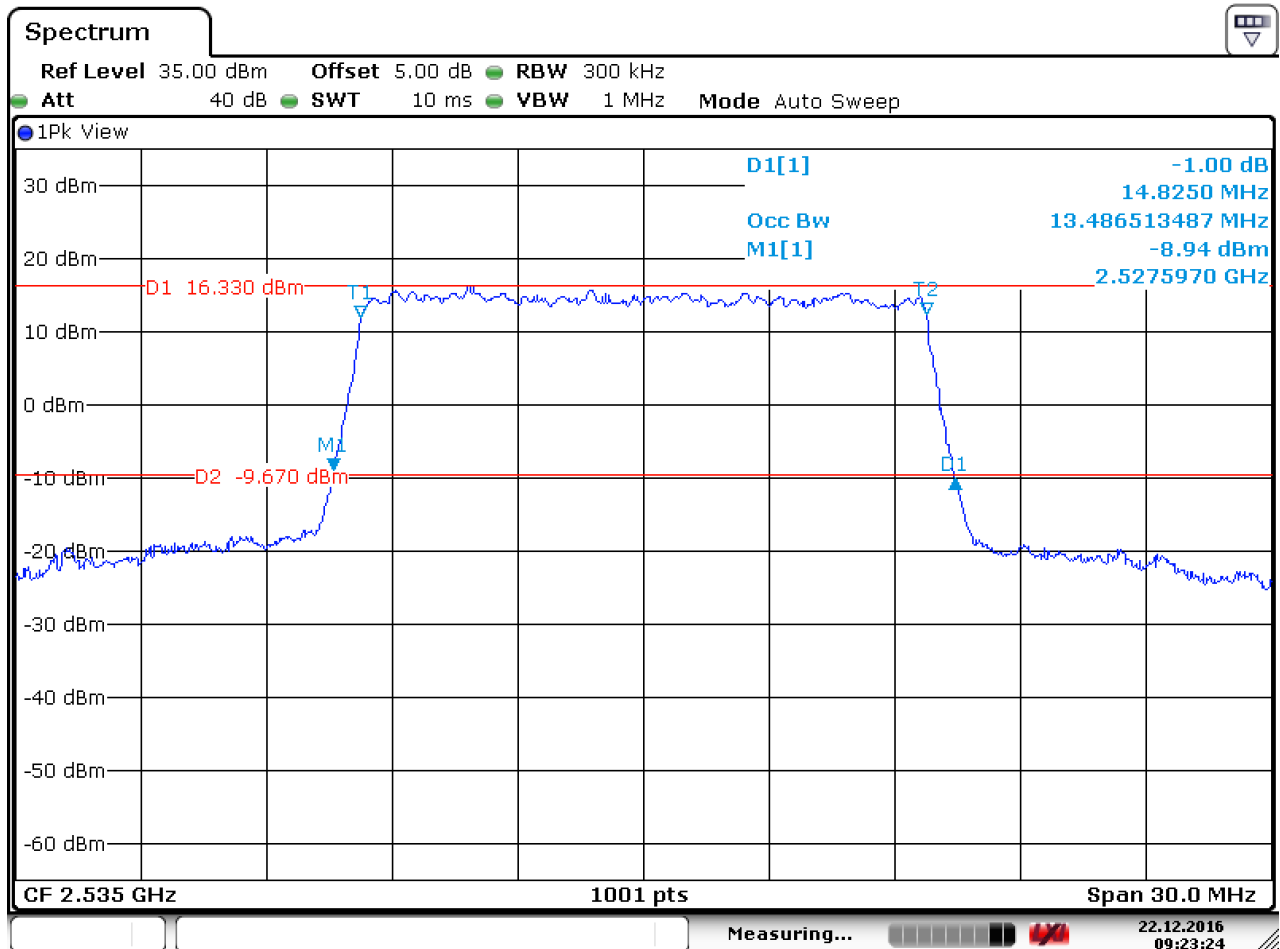
4.1.1.6 Test Mode = LTE/TM2 15MHz

4.1.1.6.1 Test Channel = LCH



Date: 22.DEC.2016 09:24:52

4.1.1.6.2 Test Channel = MCH

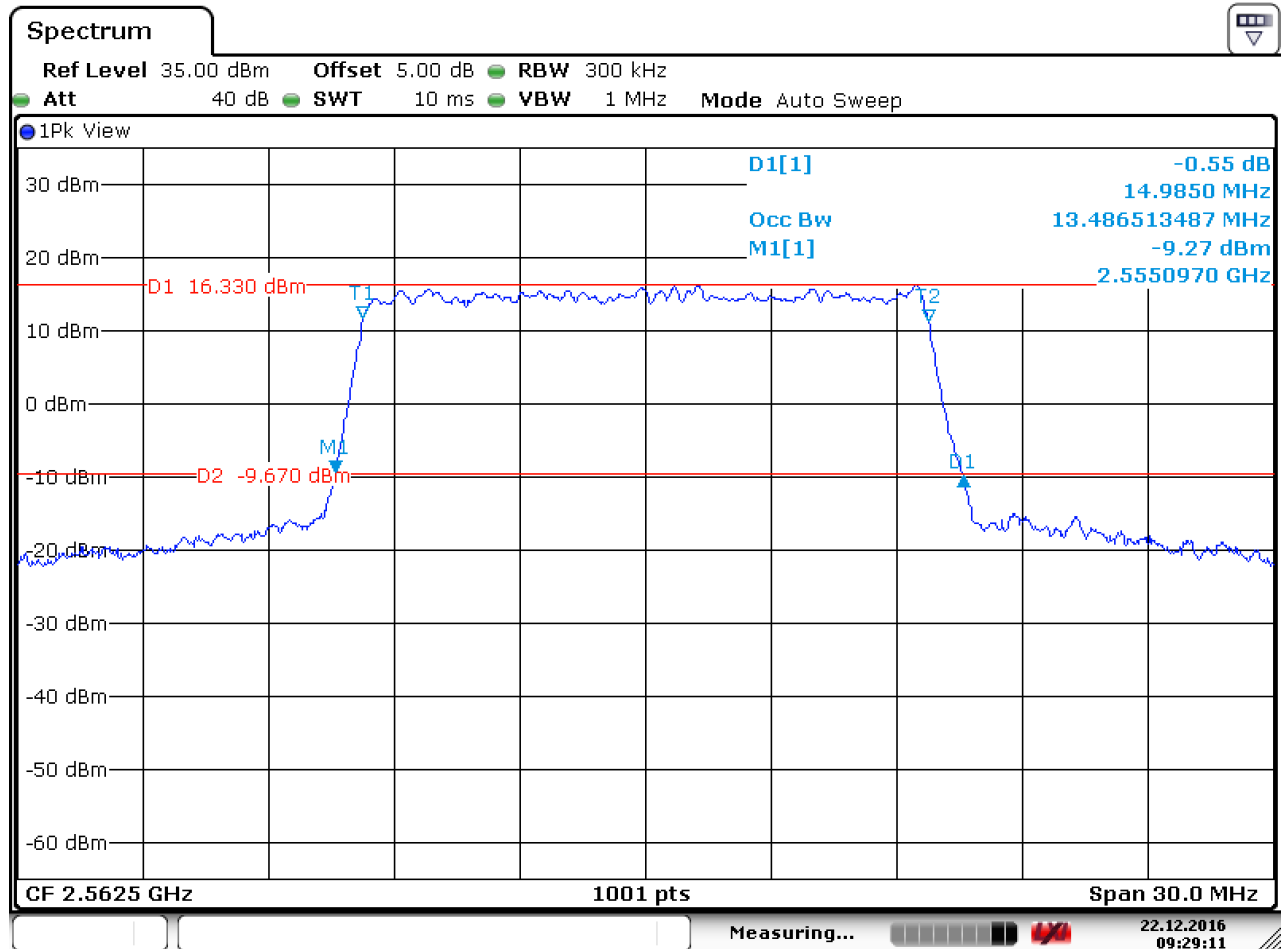


Date: 22.DEC.2016 09:23:25

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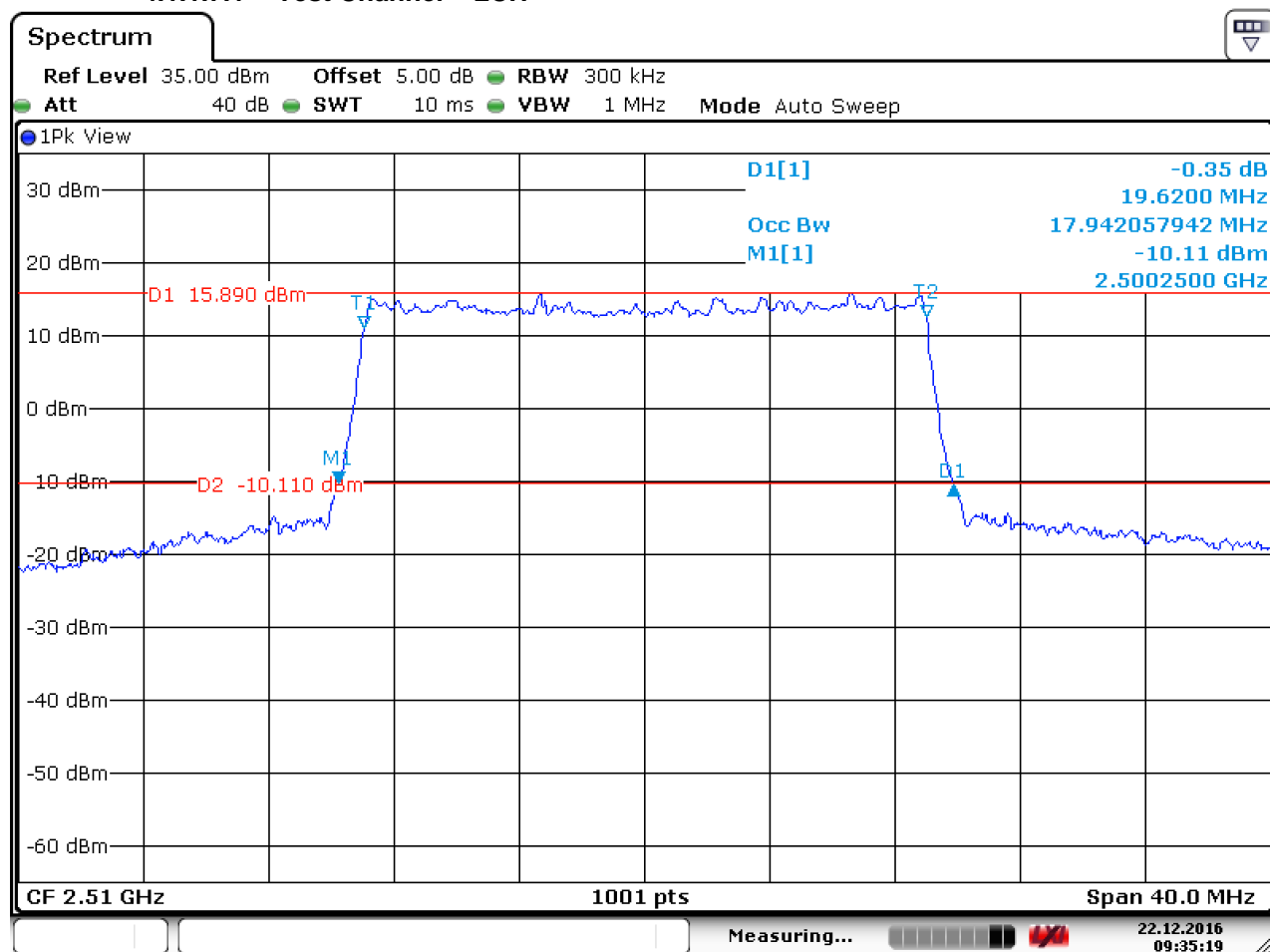
4.1.1.6.3 Test Channel = HCH



Date: 22.DEC.2016 09:29:12



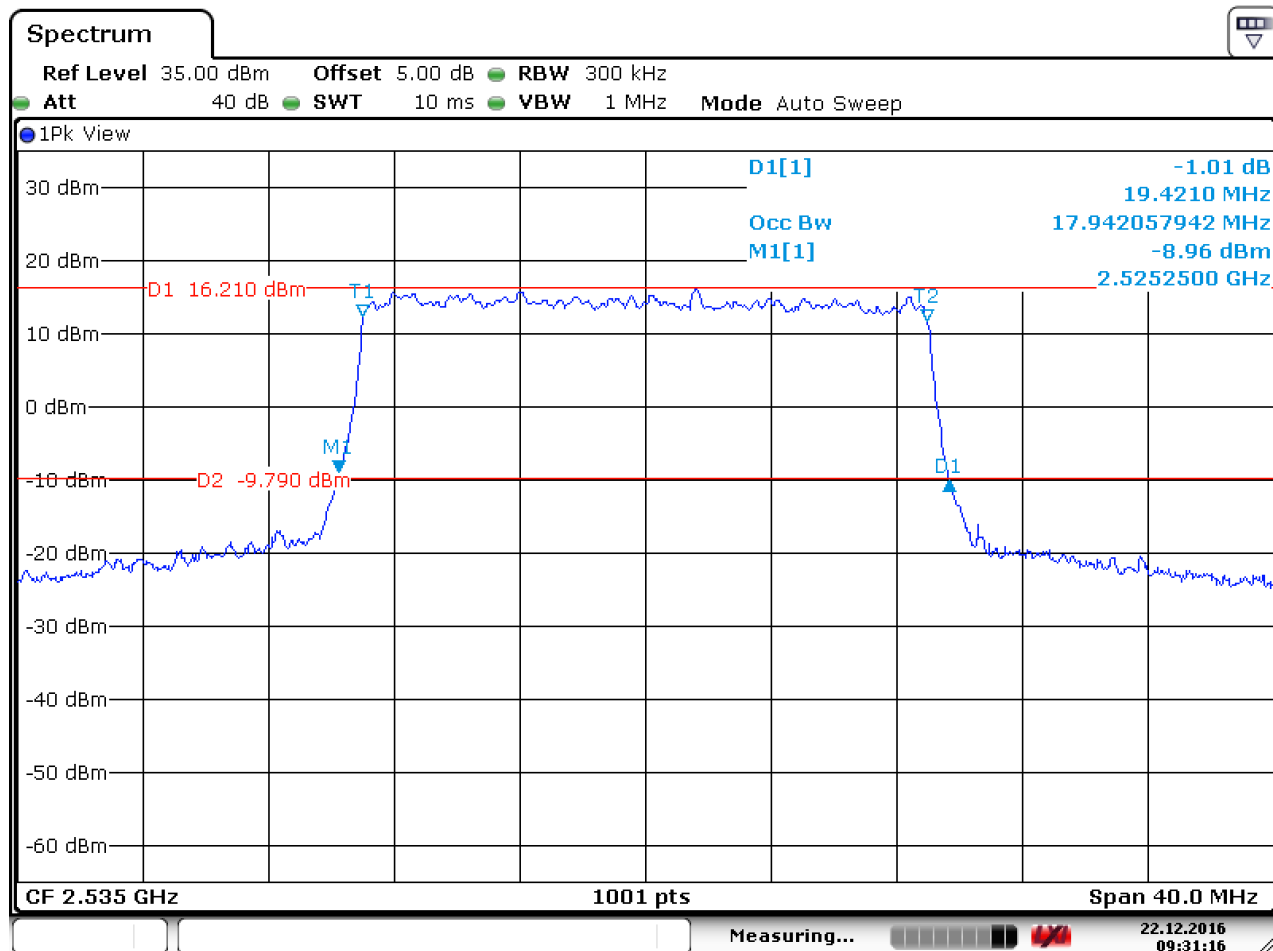
4.1.1.7 Test Mode = LTE/TM1 20MHz
4.1.1.7.1 Test Channel = LCH



Date: 22.DEC.2016 09:35:19



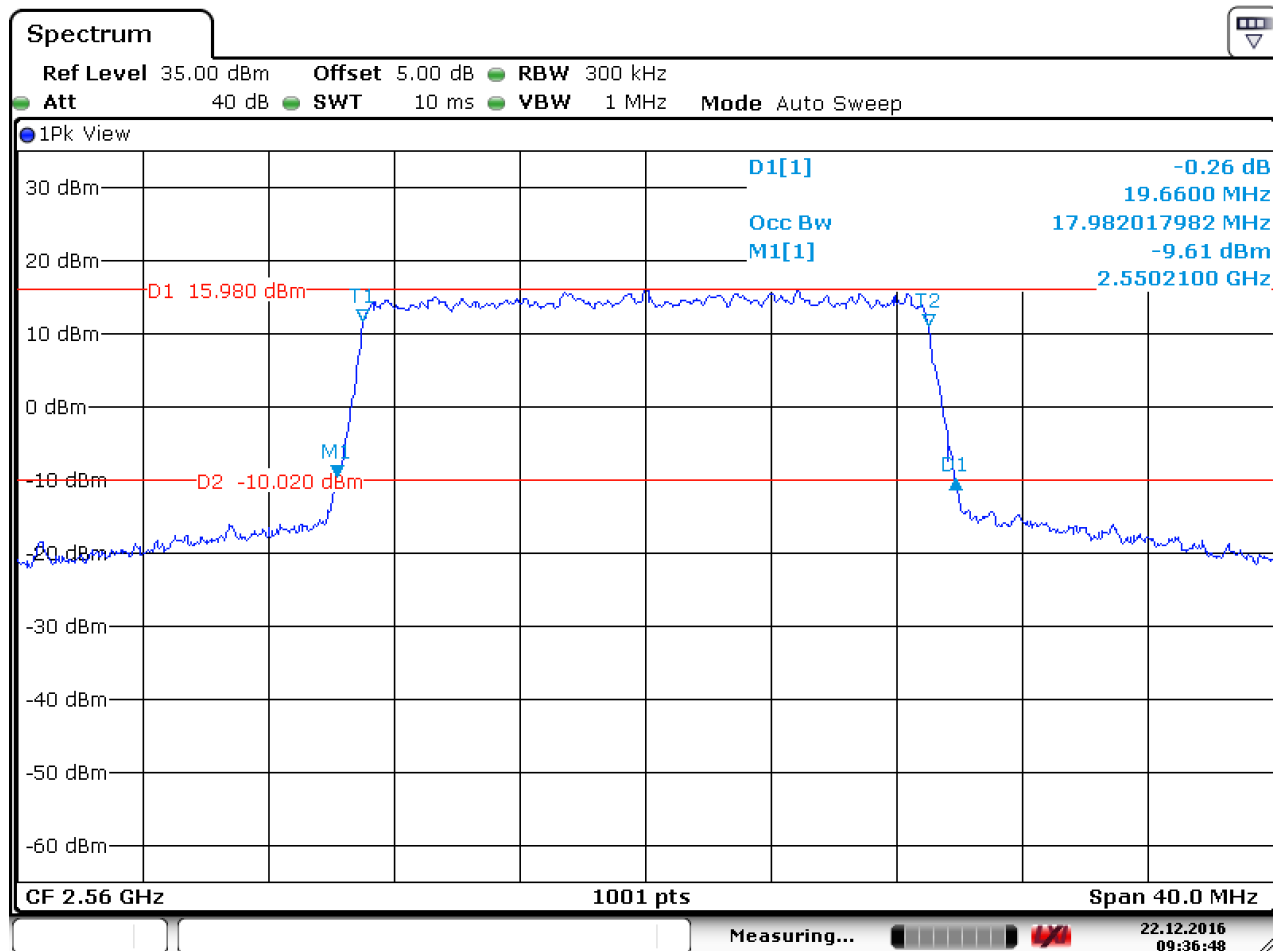
4.1.1.7.2 Test Channel = MCH



Date: 22.DEC.2016 09:31:16



4.1.1.7.3 Test Channel = HCH

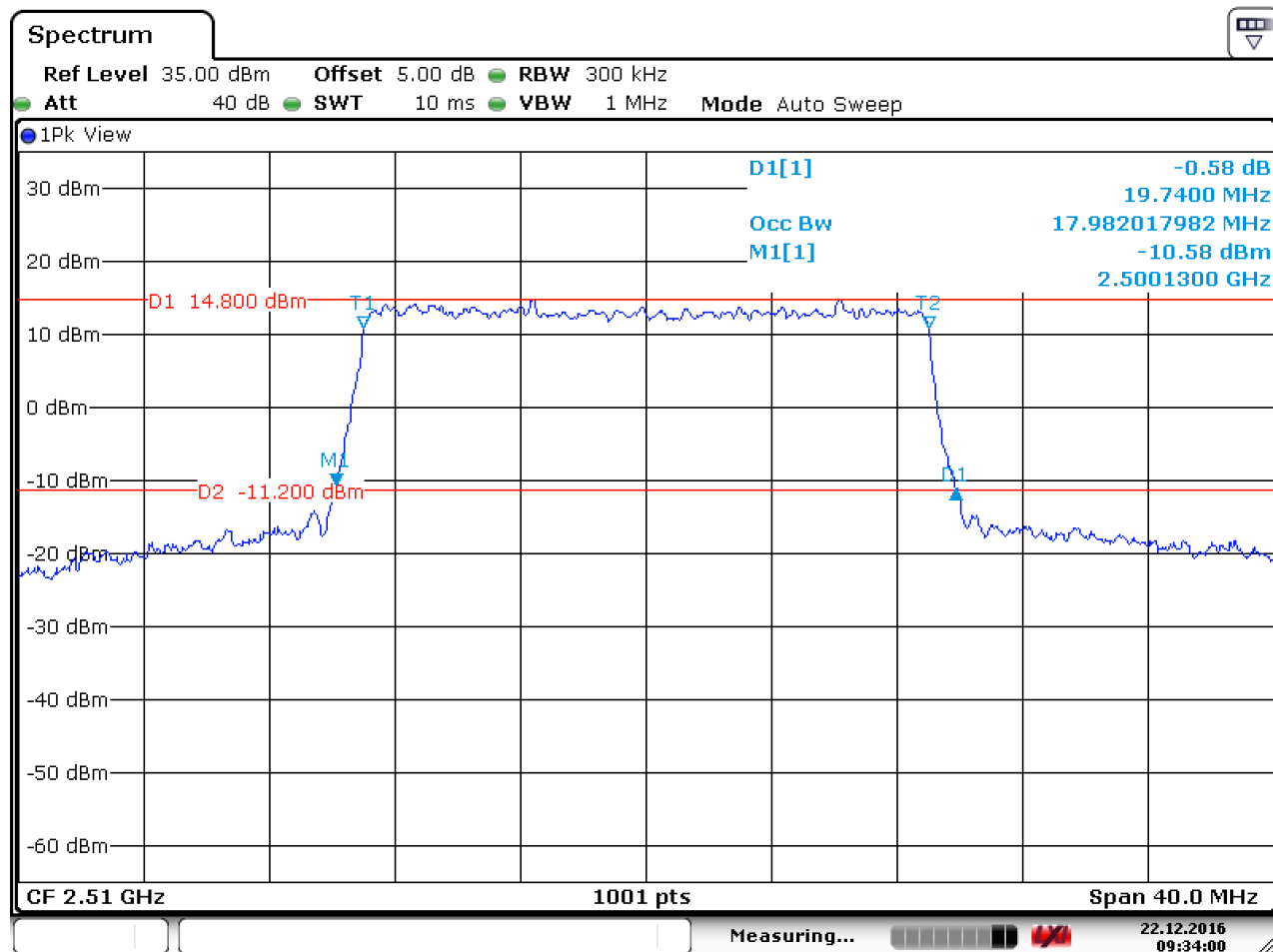


Date: 22.DEC.2016 09:36:49



4.1.1.8 Test Mode = LTE/TM2 20MHz

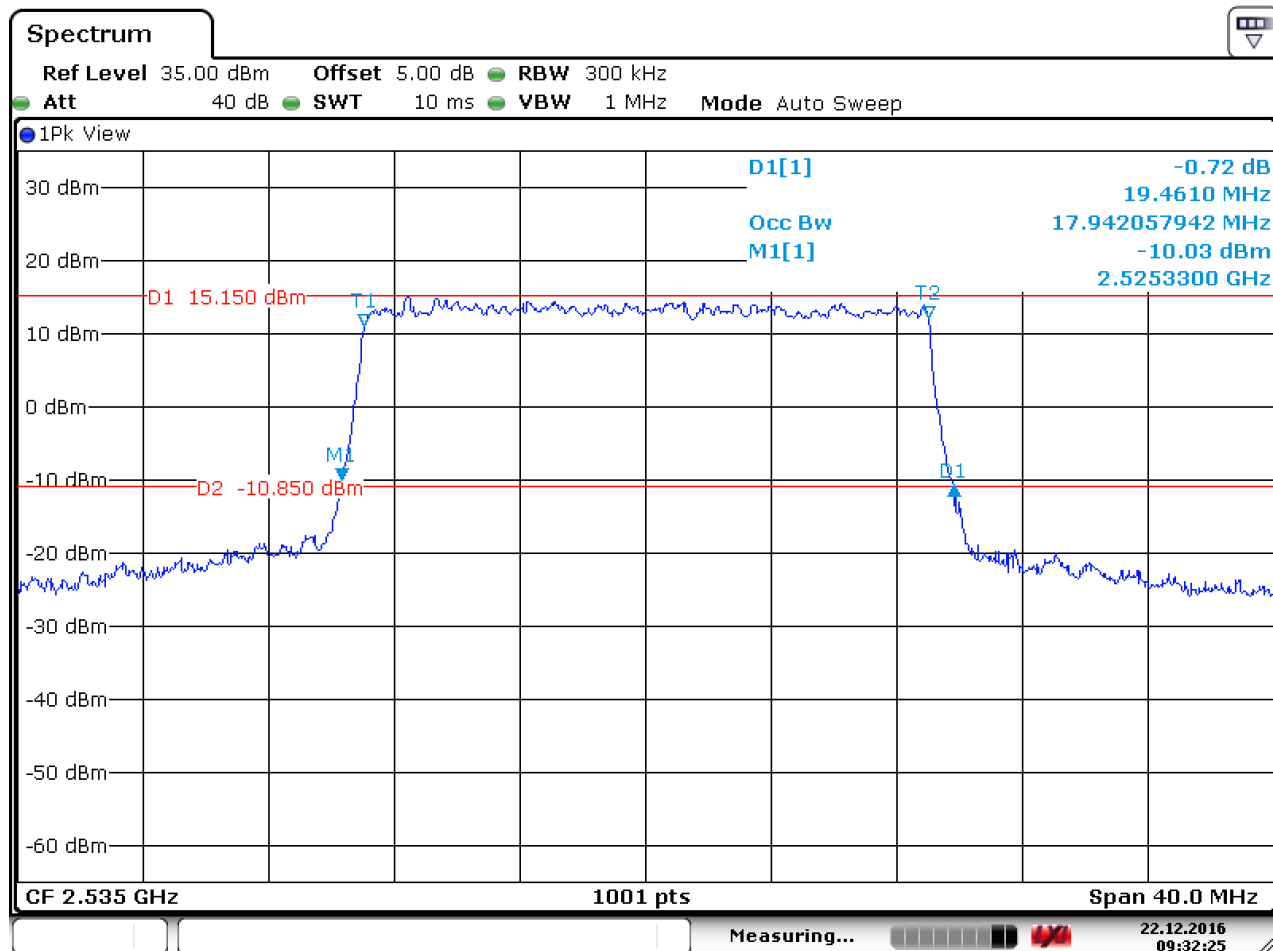
4.1.1.8.1 Test Channel = LCH



Date: 22.DEC.2016 09:34:00



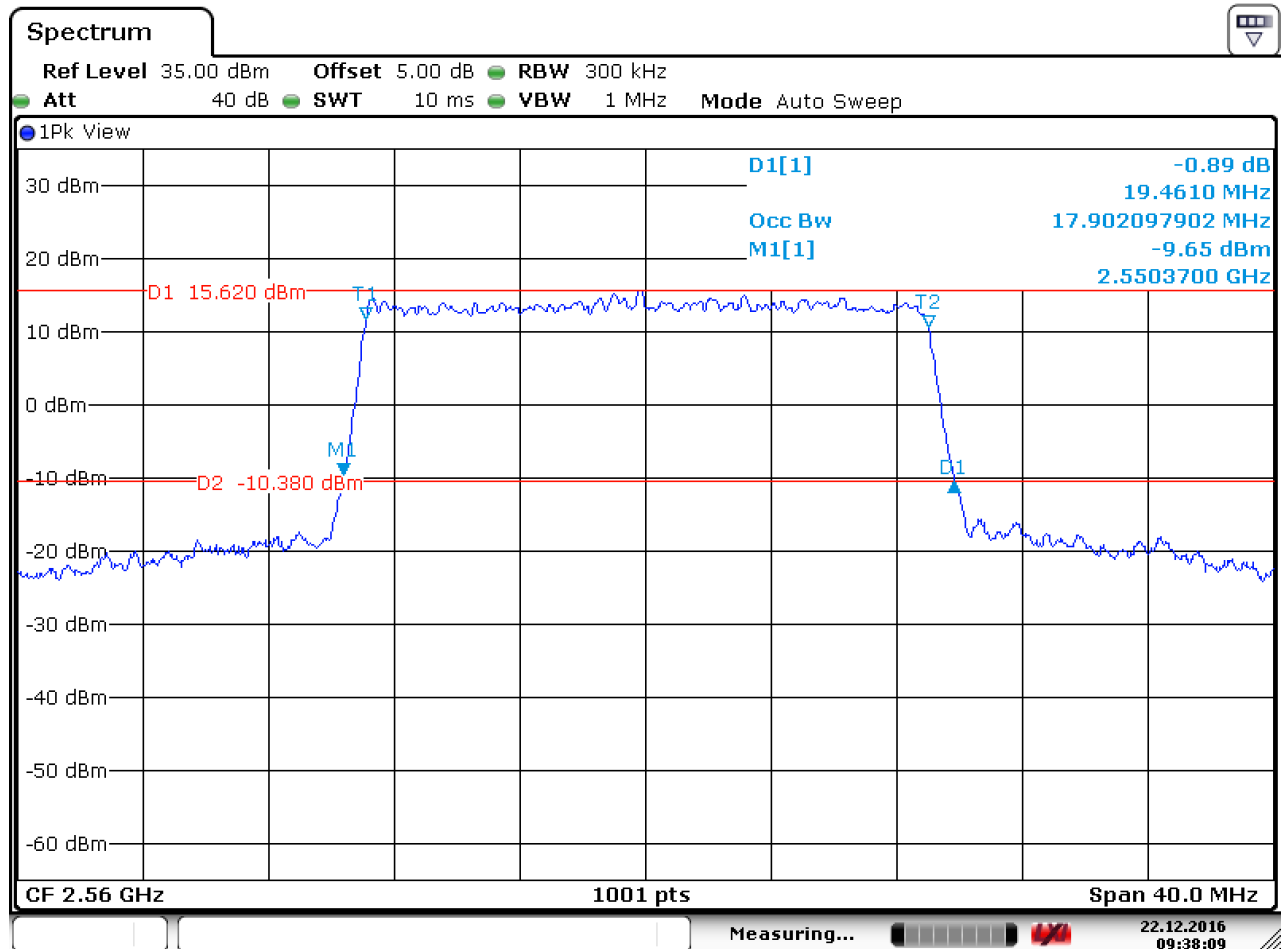
4.1.1.8.2 Test Channel = MCH



Date: 22.DEC.2016 09:32:25



4.1.1.8.3 Test Channel = HCH



Date: 22.DEC.2016 09:38:10



5 Band Edges Compliance

Part I –

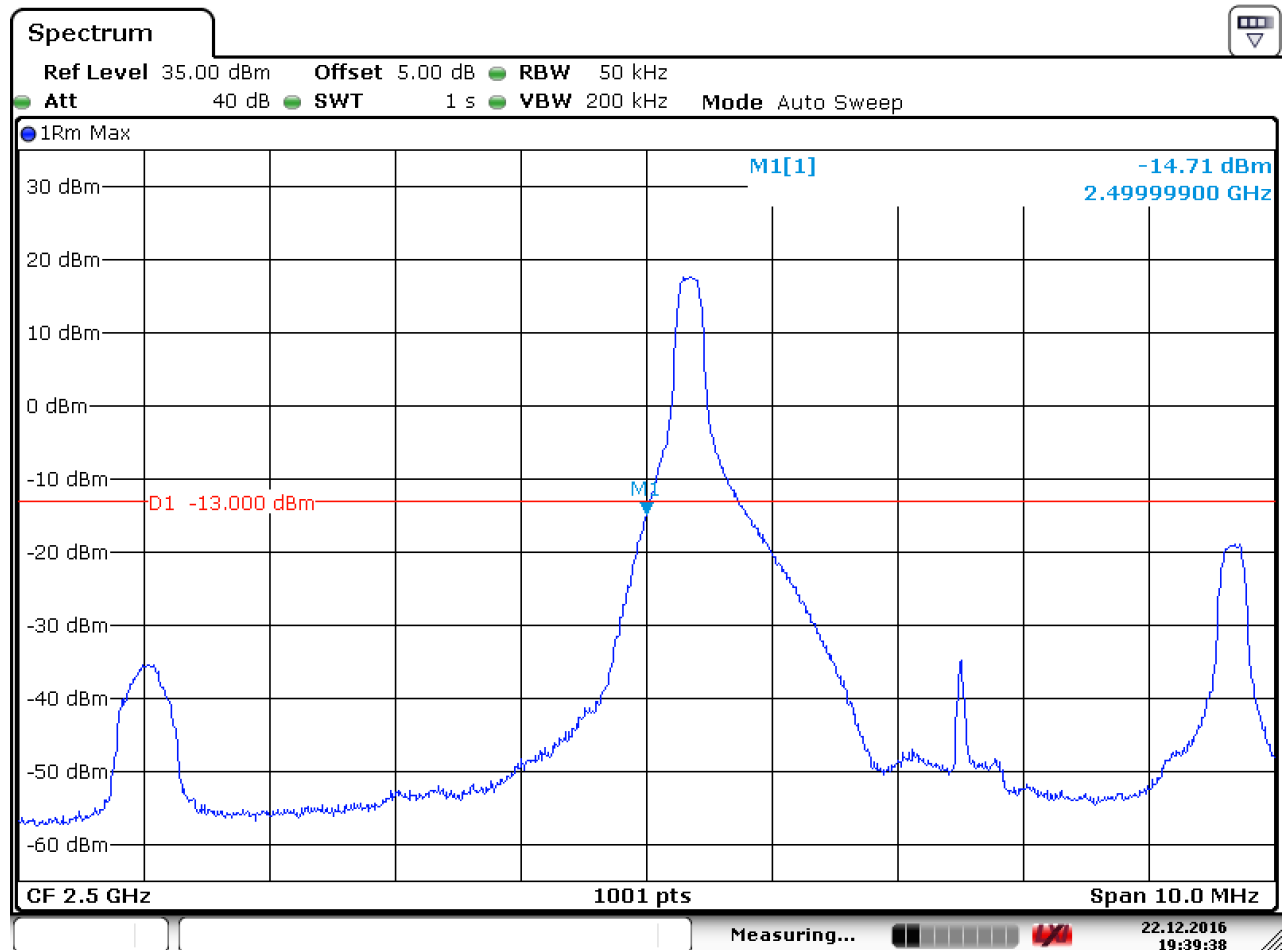
5.1 For LTE

5.1.1 Test Band = LTE band2

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

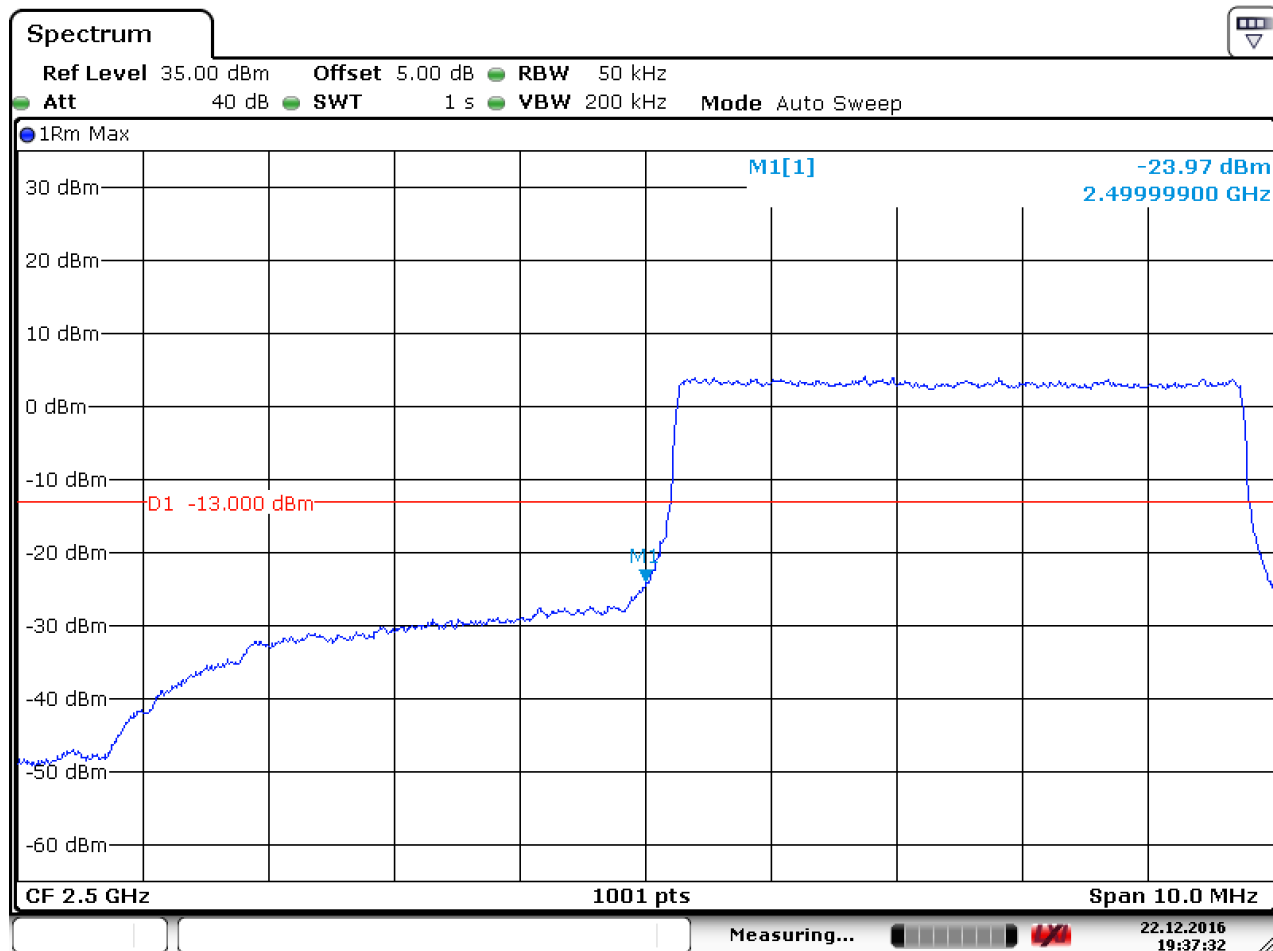
5.1.1.1.1.1 Test RB=1RB



Date: 22.DEC.2016 19:39:38



5.1.1.1.1.2 Test RB=25RB

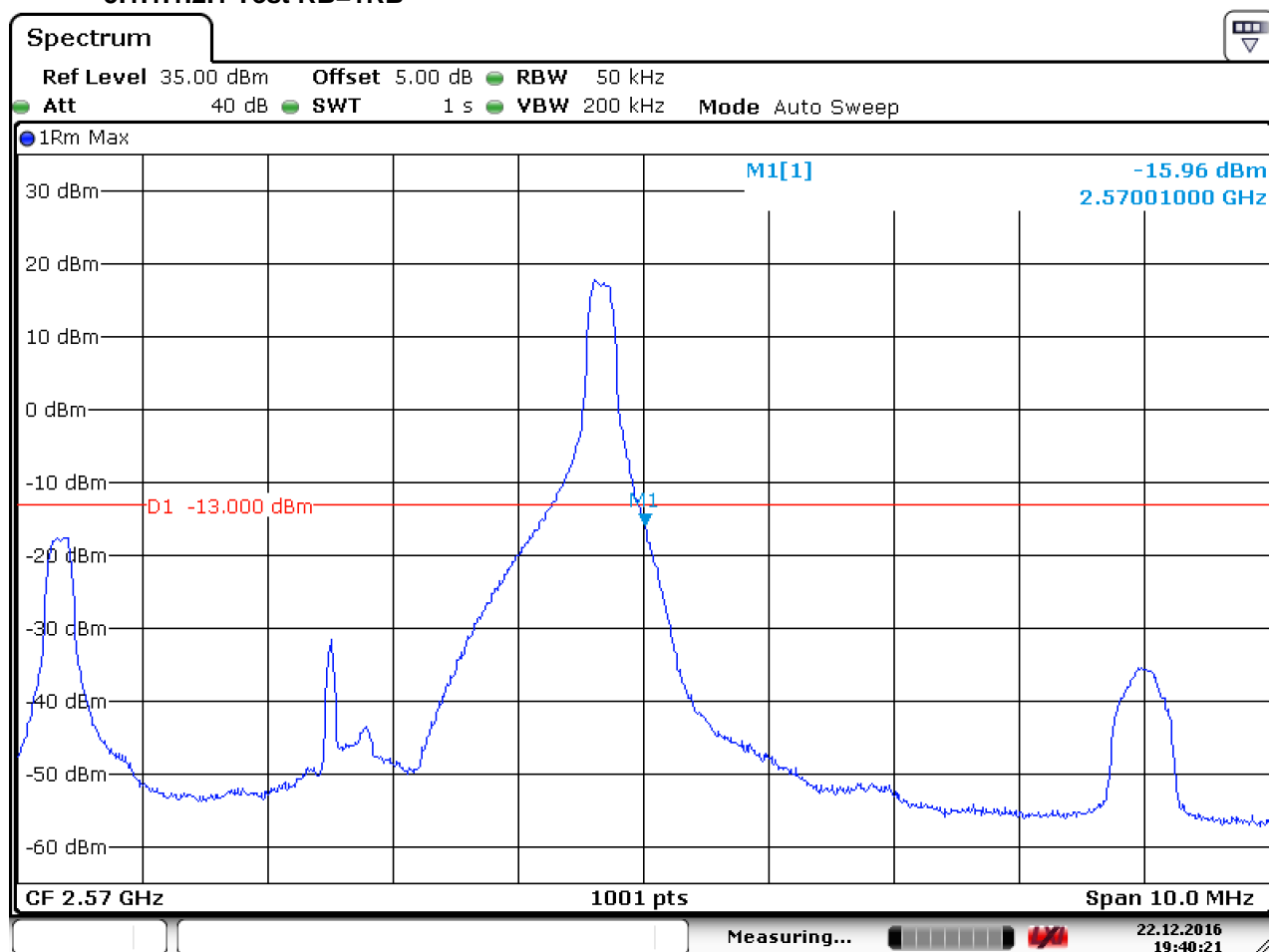


Date: 22.DEC.2016 19:37:32



5.1.1.1.2 Test Channel = HCH

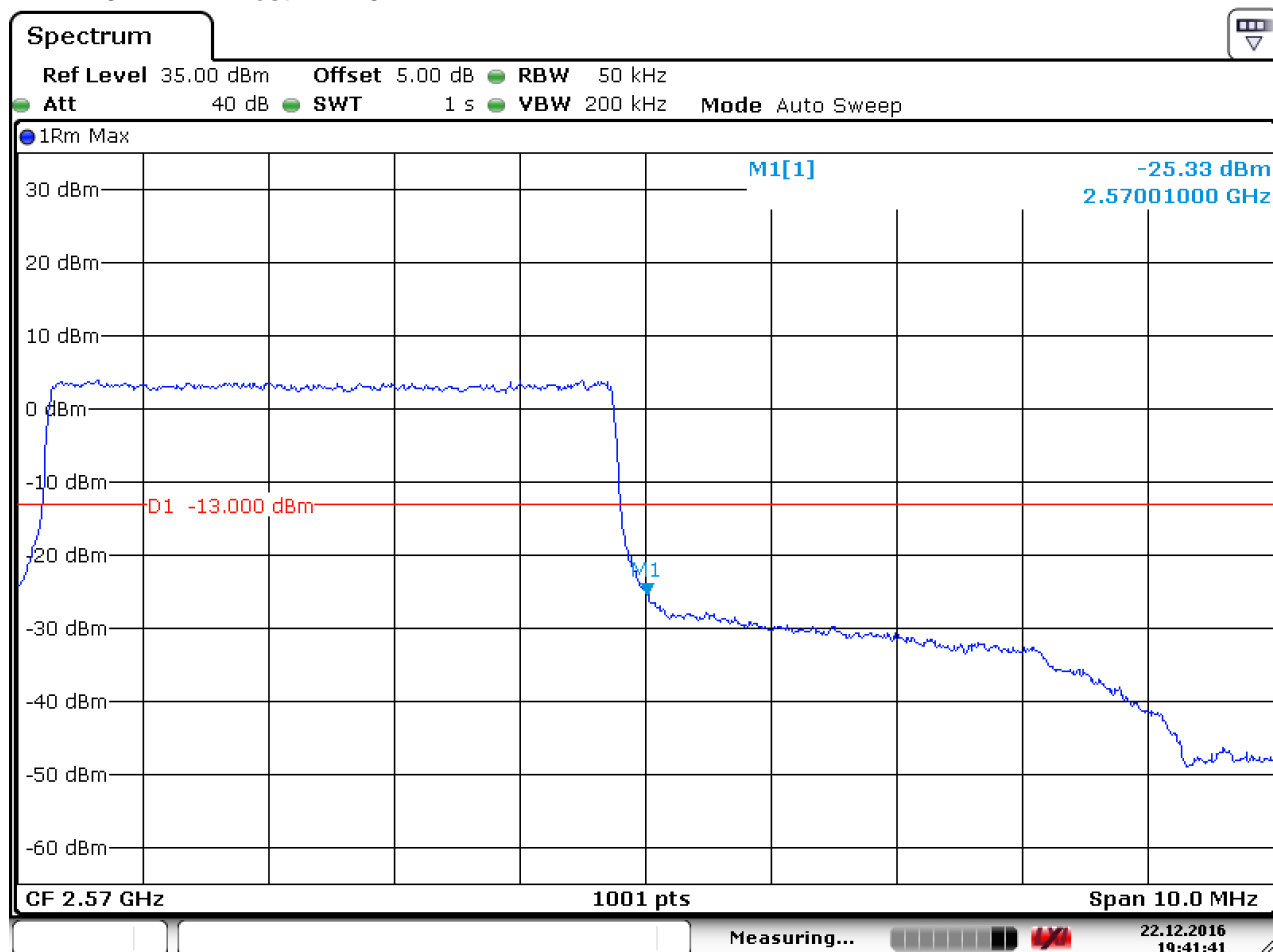
5.1.1.1.2.1 Test RB=1RB



Date: 22.DEC.2016 19:40:21



5.1.1.1.2.2 Test RB=25RB



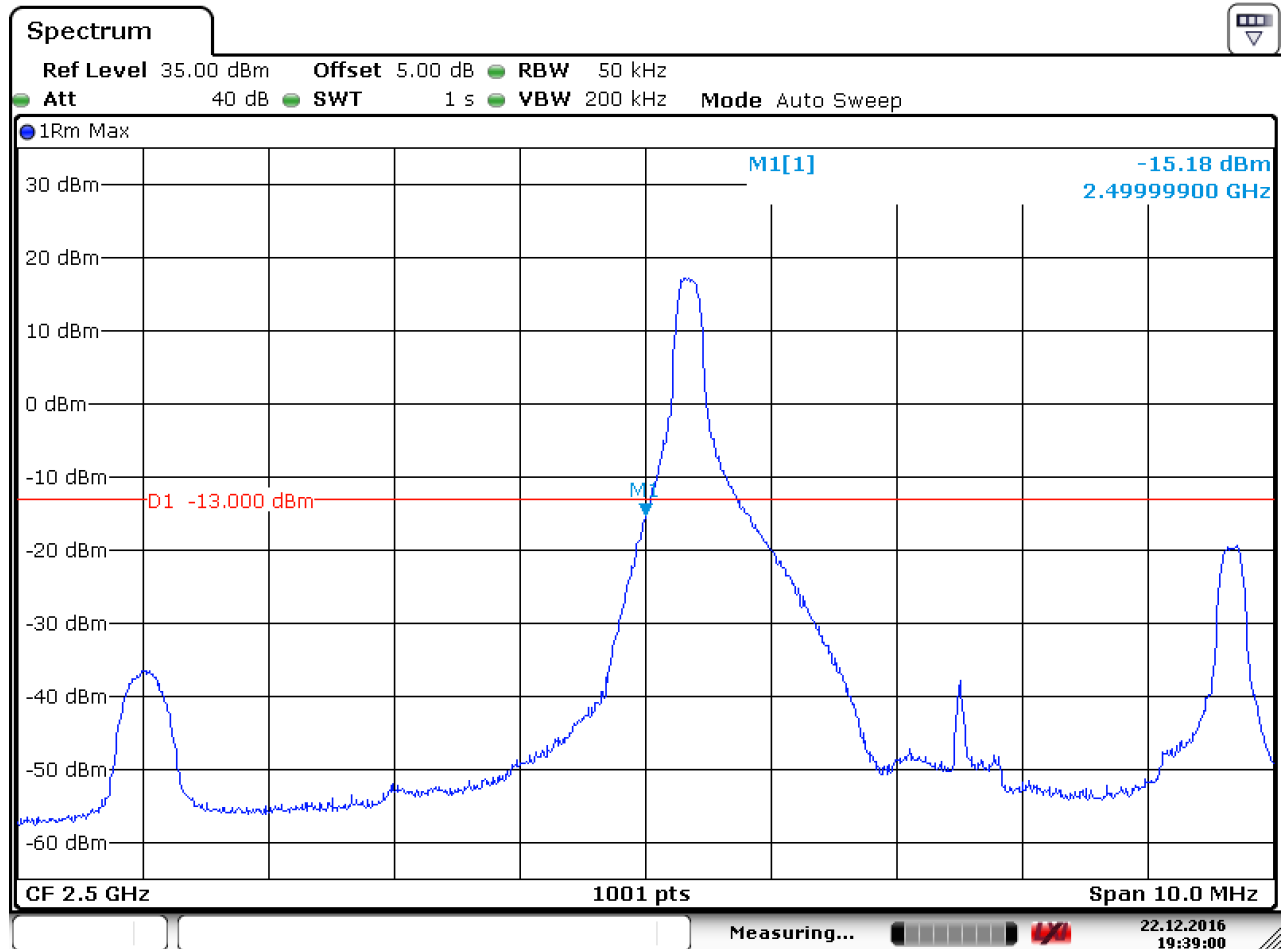
Date: 22.DEC.2016 19:41:41



5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

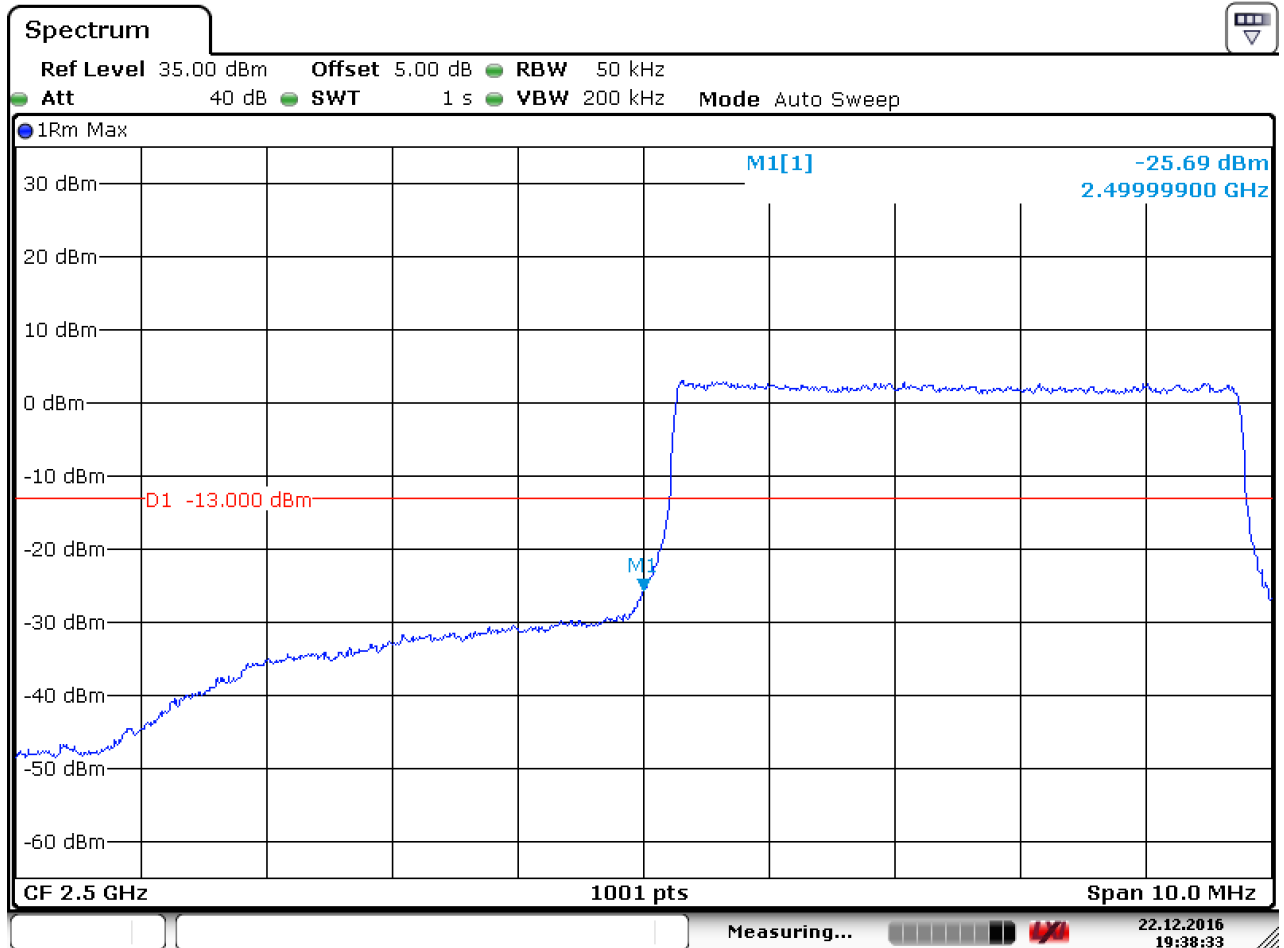
5.1.1.2.1.1 Test RB=1RB



Date: 22.DEC.2016 19:39:01



5.1.1.2.1.2 Test RB=25RB

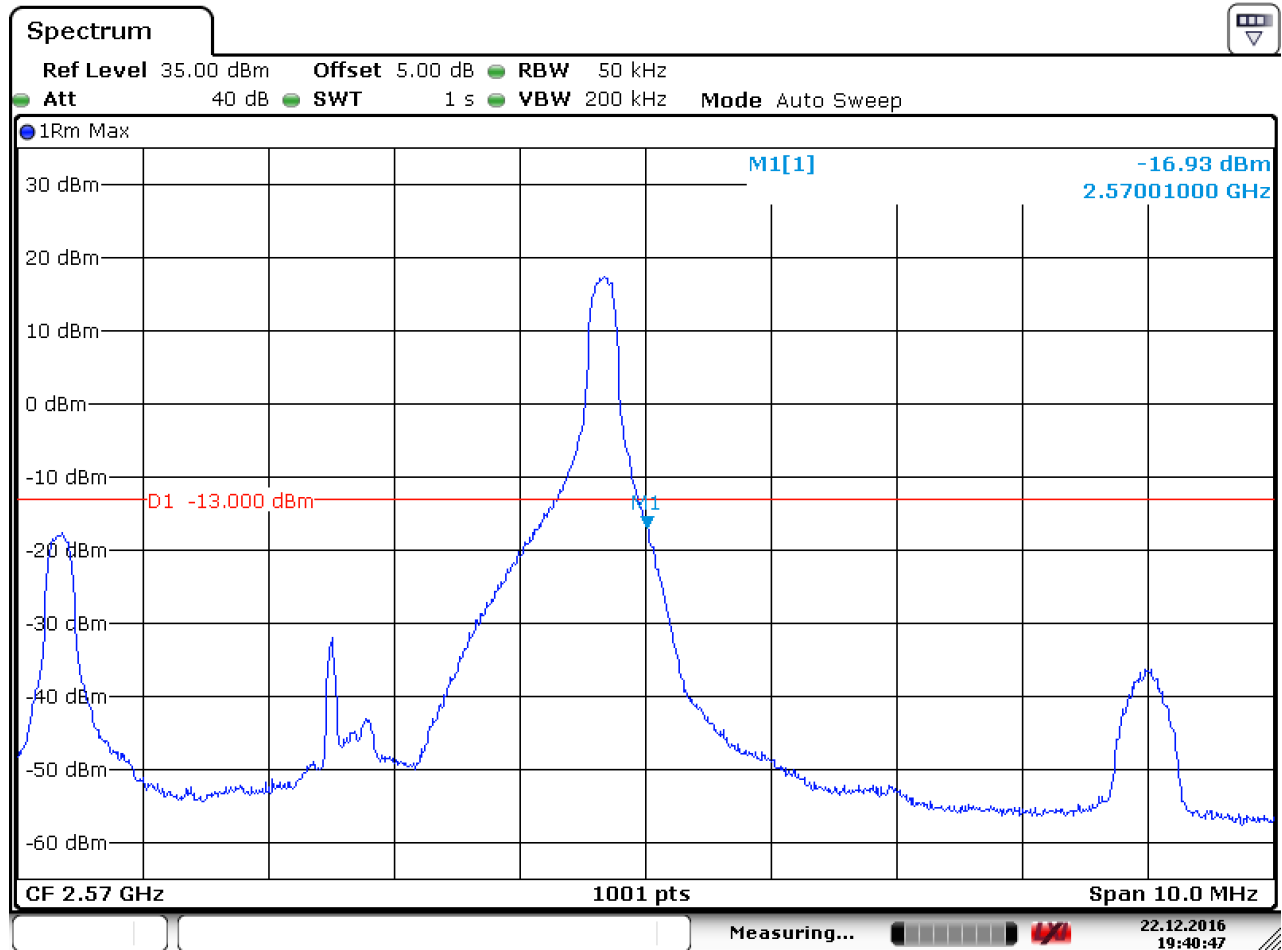


Date: 22.DEC.2016 19:38:34



5.1.1.2.2 Test Channel = HCH

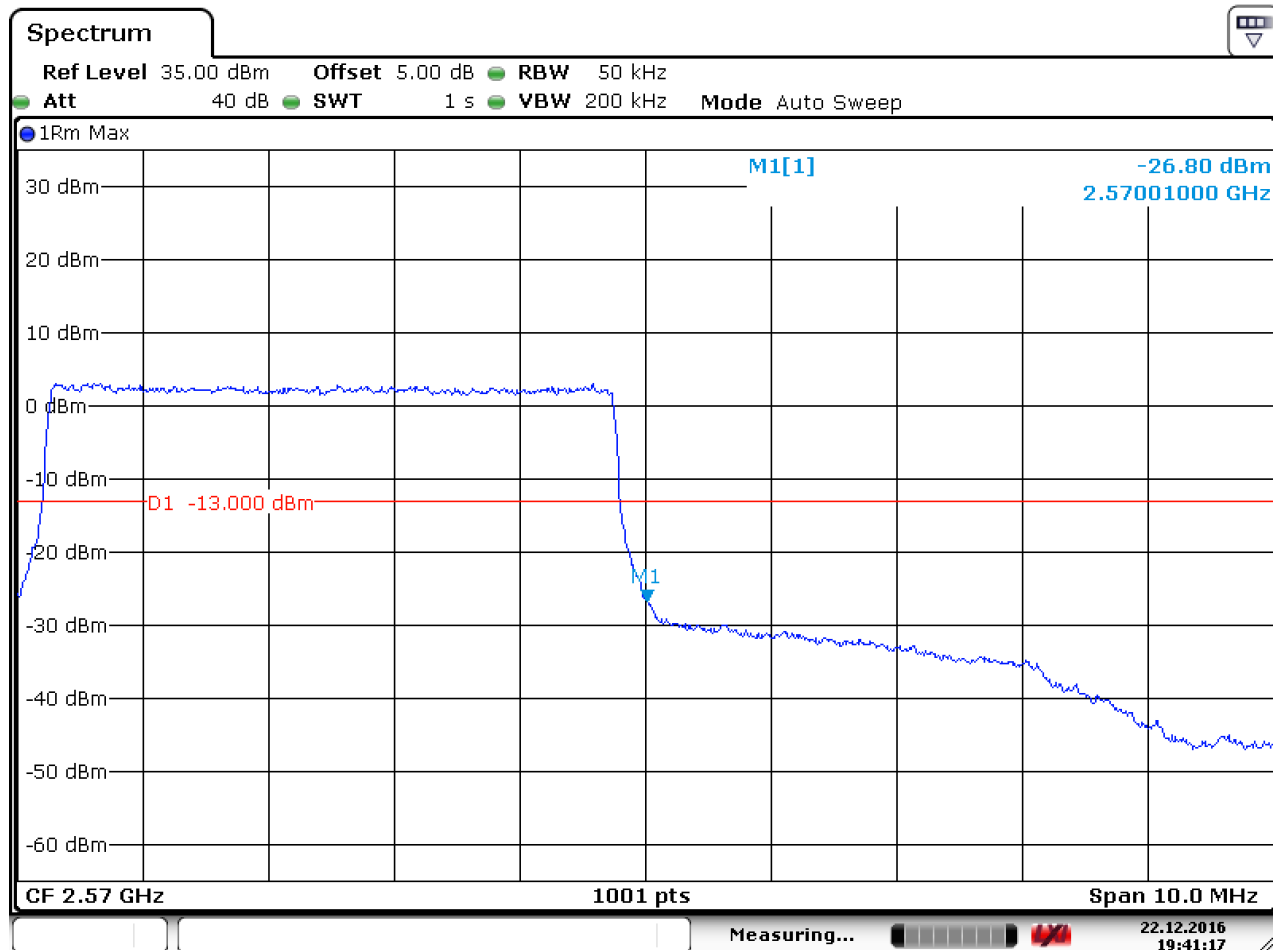
5.1.1.2.2.1 Test RB=1RB



Date: 22.DEC.2016 19:40:47



5.1.1.2.2.2 Test RB=25RB



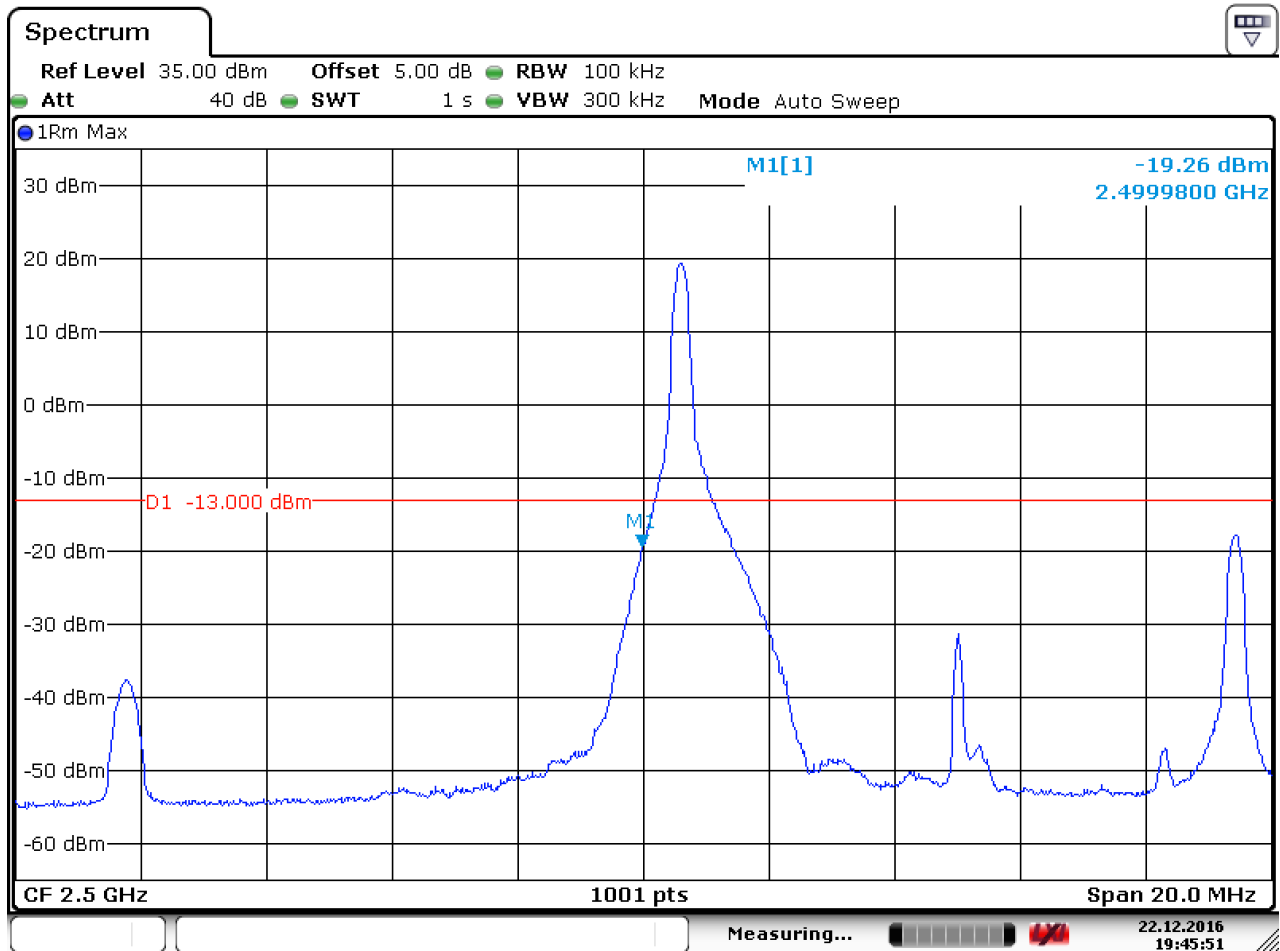
Date: 22.DEC.2016 19:41:17



5.1.1.3 Test Mode = LTE/TM1 10MHz

5.1.1.3.1 Test Channel = LCH

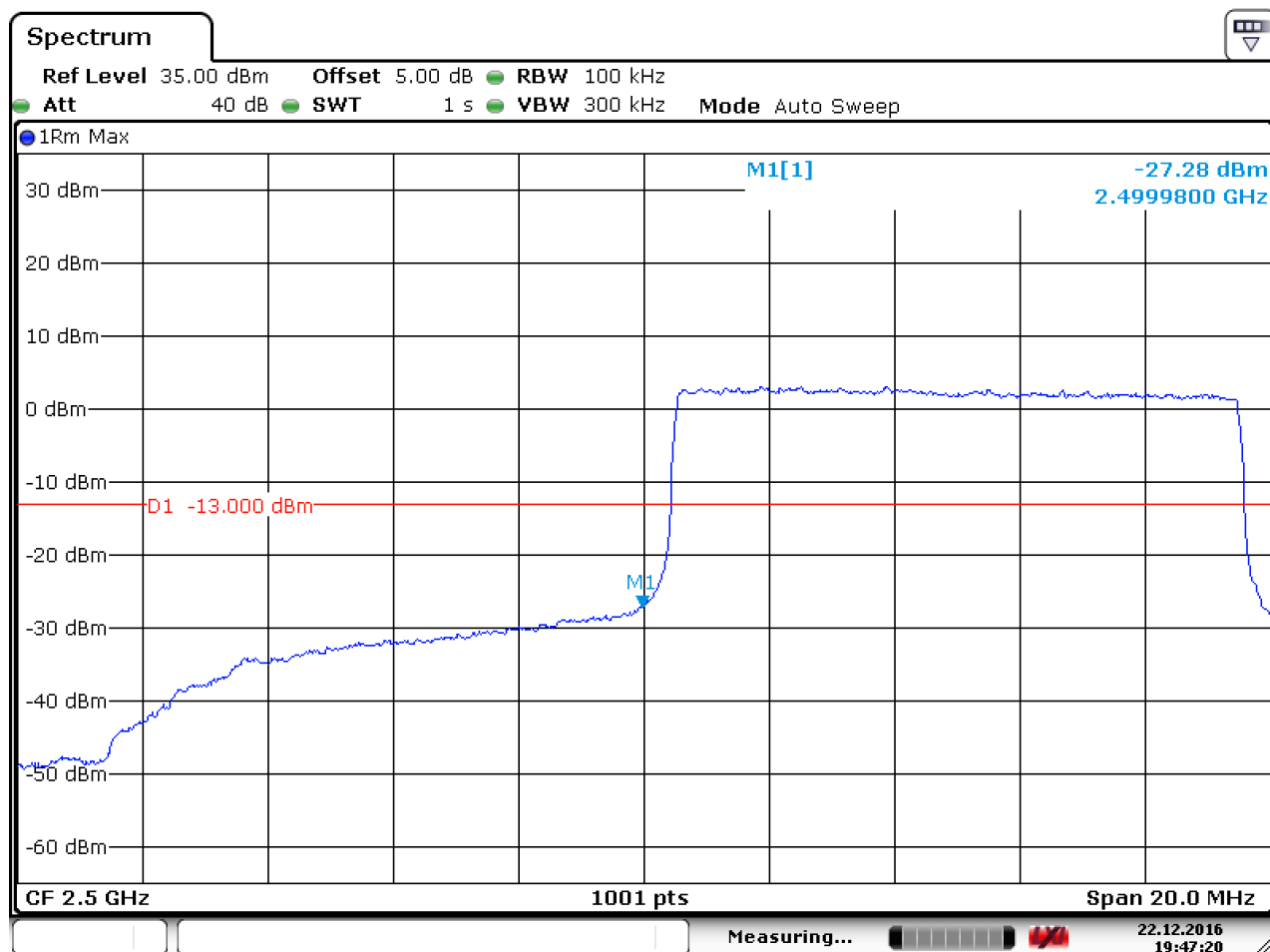
5.1.1.3.1.1 Test RB=1RB



Date: 22.DEC.2016 19:45:51



5.1.1.3.1.2 Test RB=50RB

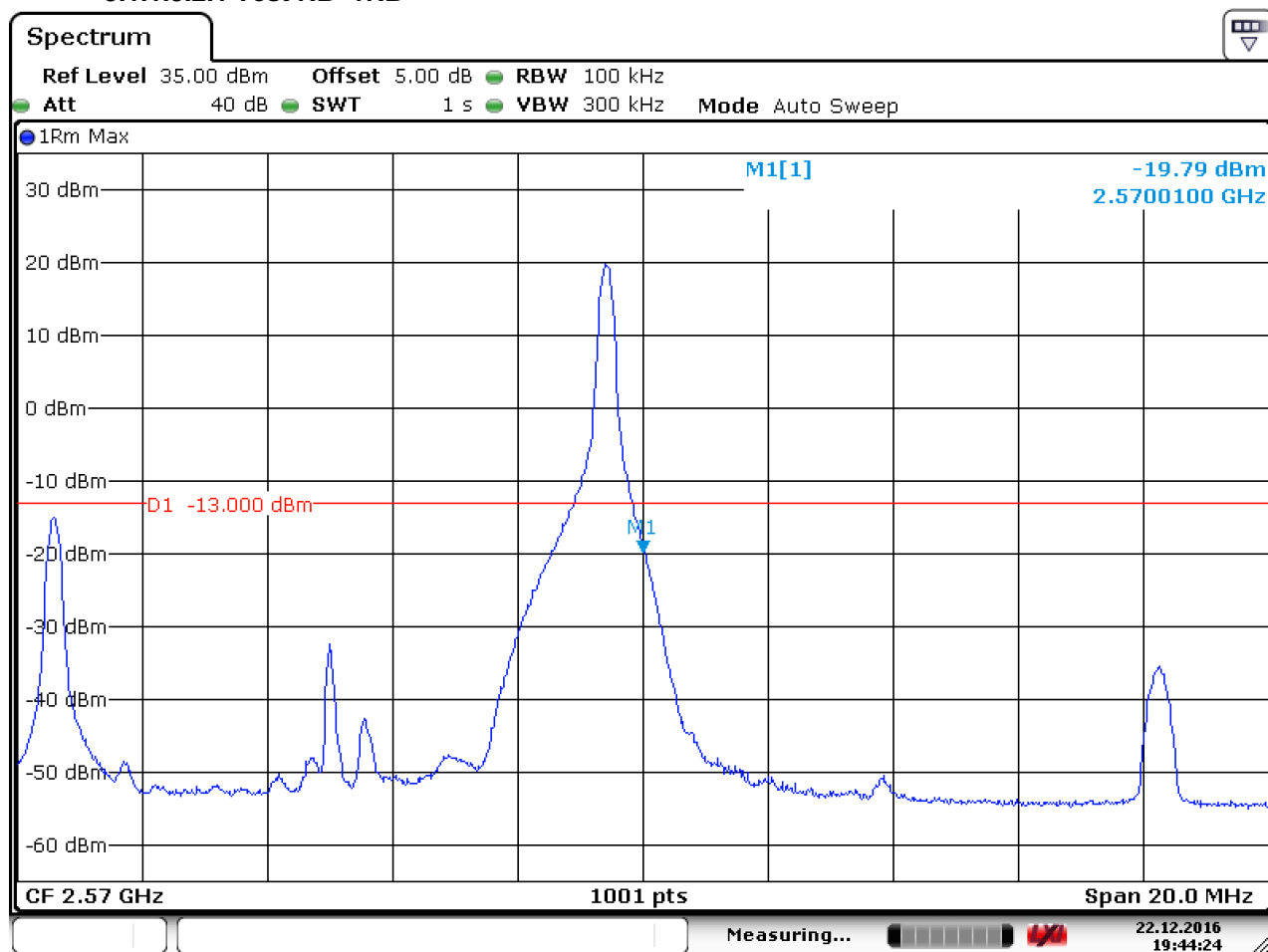


Date: 22.DEC.2016 19:47:21



5.1.1.3.2 Test Channel = HCH

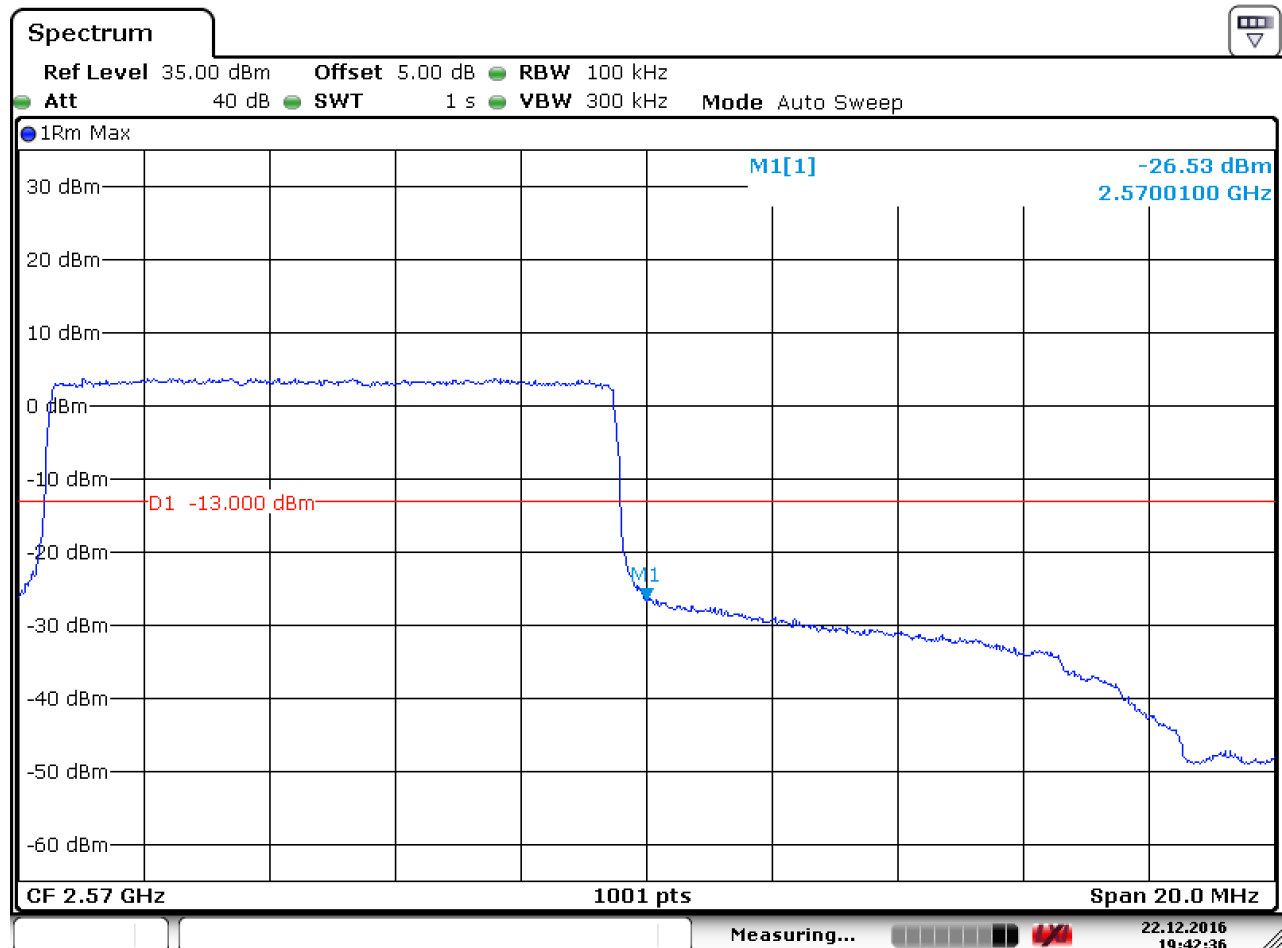
5.1.1.3.2.1 Test RB=1RB



Date: 22.DEC.2016 19:44:24



5.1.1.3.2.2 Test RB=50RB



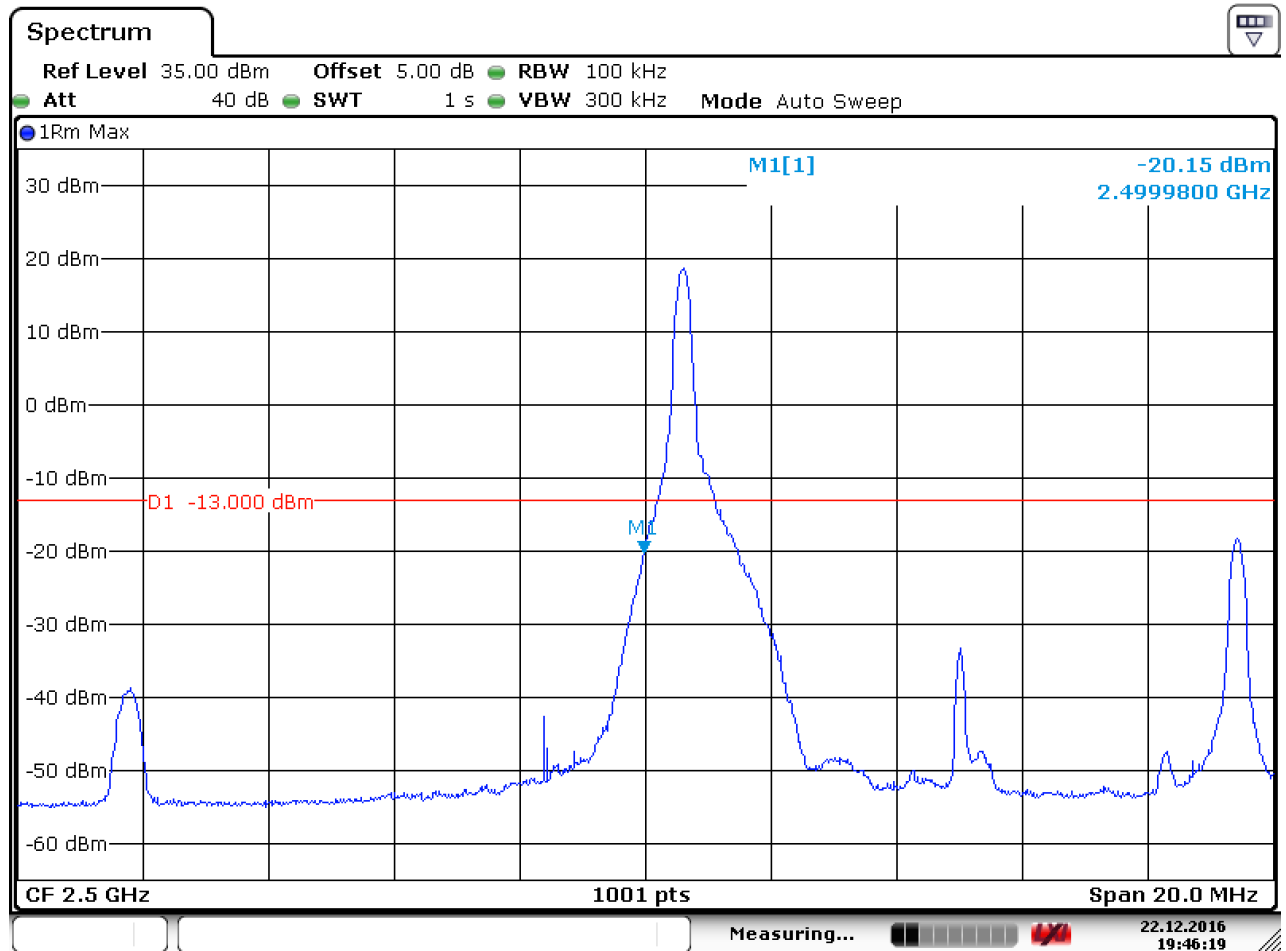
Date: 22.DEC.2016 19:42:37



5.1.1.4 Test Mode = LTE/TM2 10MHz

5.1.1.4.1 Test Channel = LCH

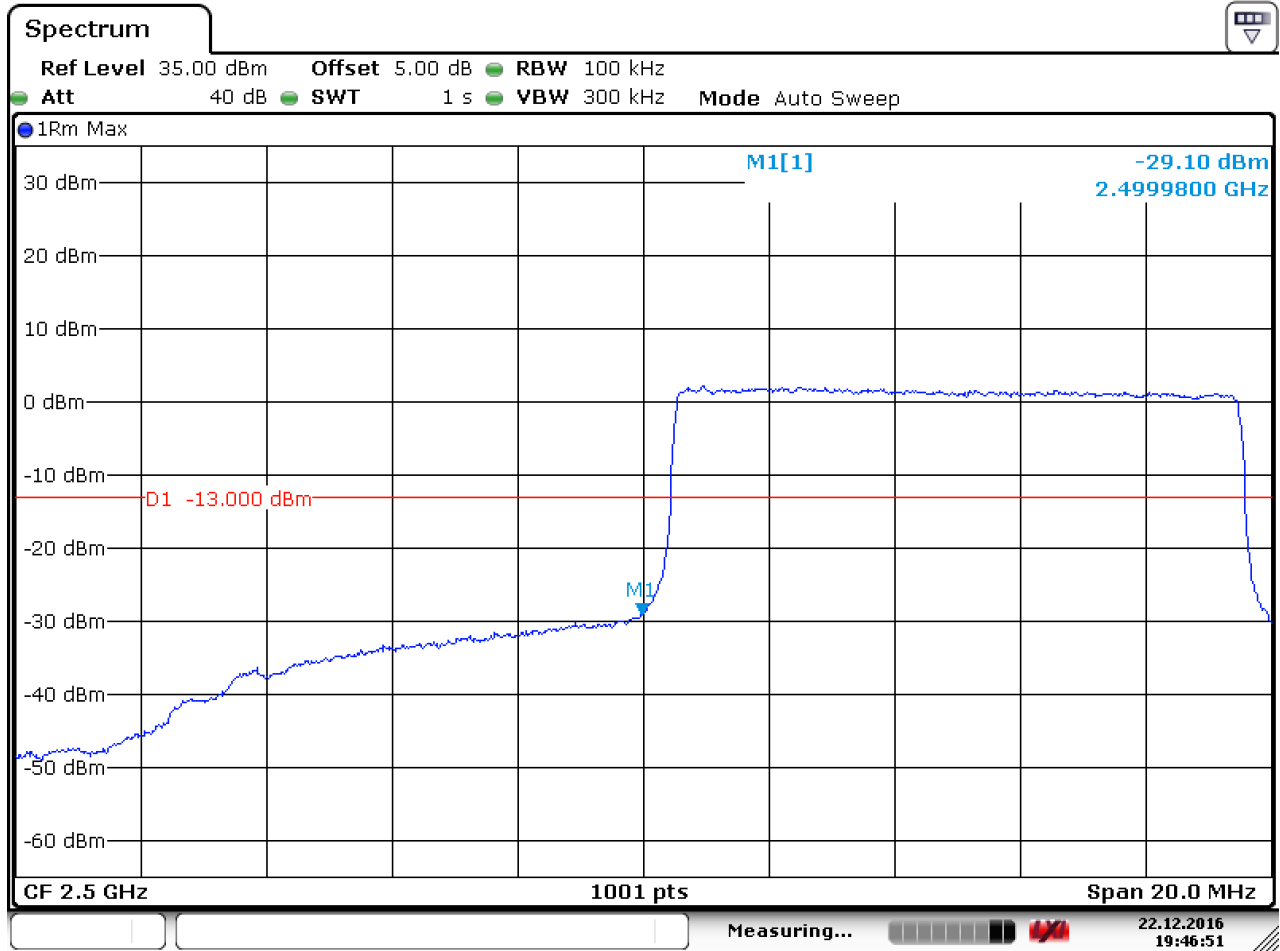
5.1.1.4.1.1 Test RB=1RB



Date: 22.DEC.2016 19:46:20



5.1.1.4.1.2 Test RB=50RB

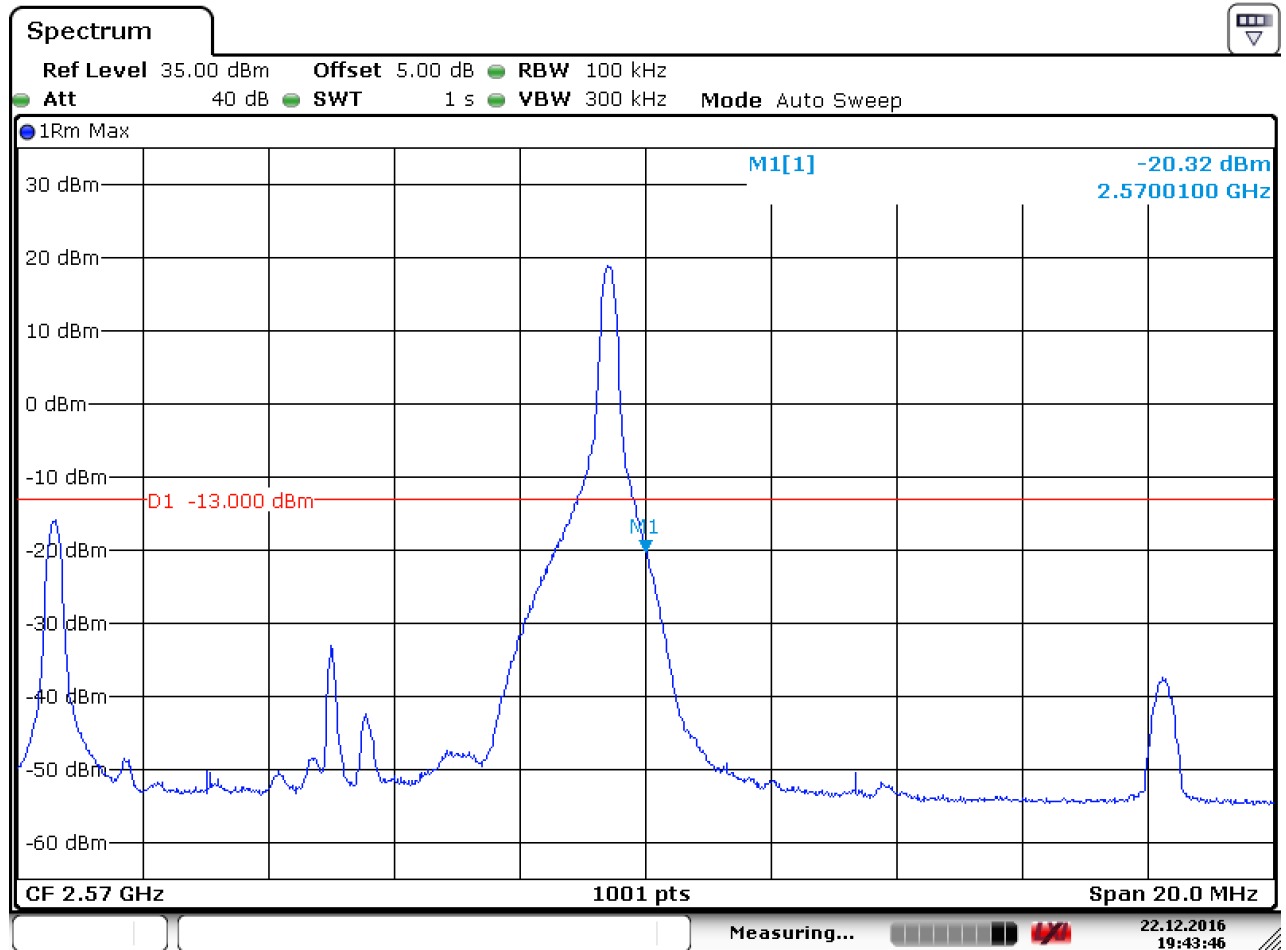


Date: 22.DEC.2016 19:46:52



5.1.1.4.2 Test Channel = HCH

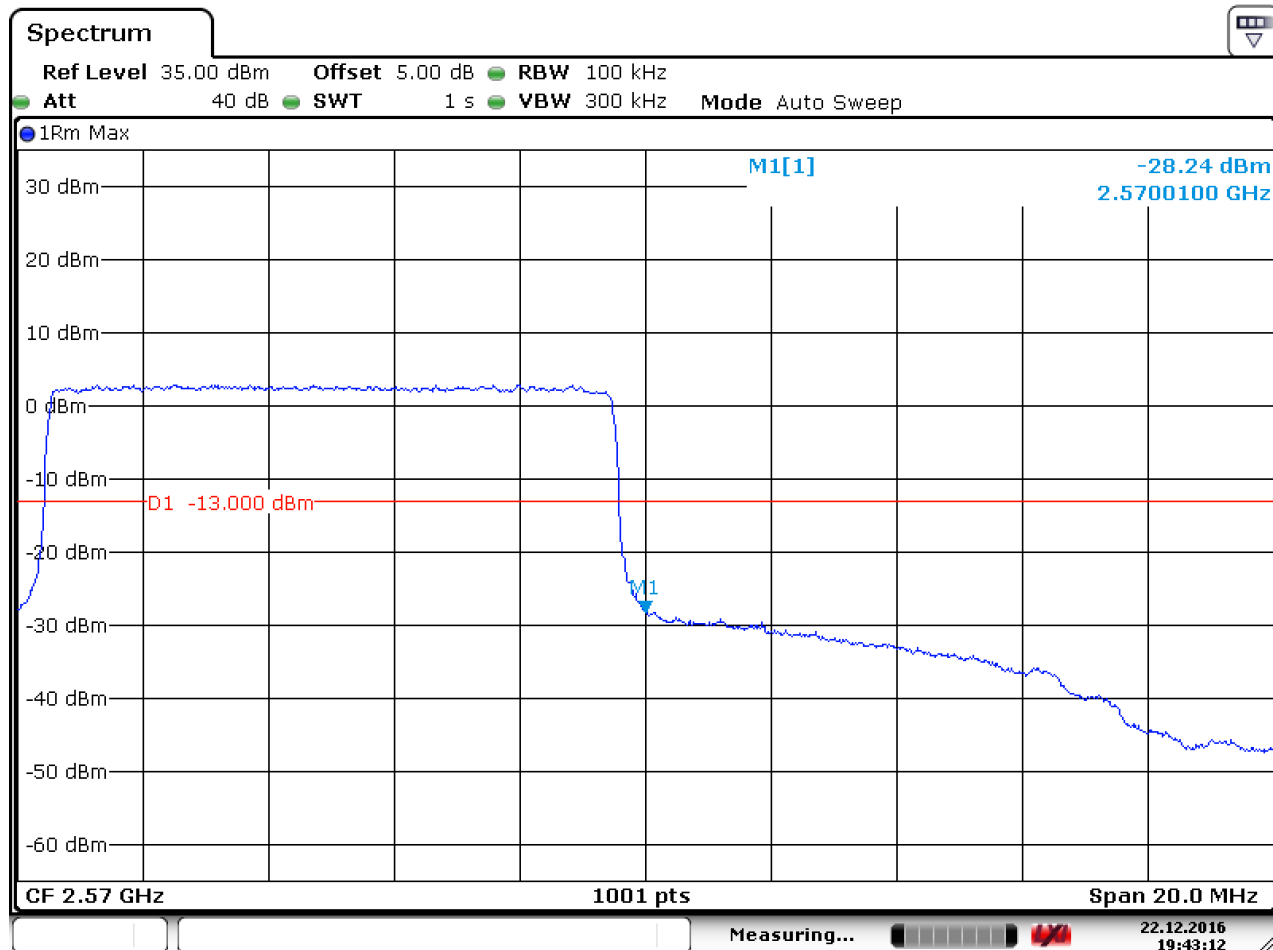
5.1.1.4.2.1 Test RB=1RB



Date: 22.DEC.2016 19:43:47



5.1.1.4.2.2 Test RB=50RB



Date: 22.DEC.2016 19:43:13