Appendix B

E-UTRA Band 26(824-849)

CONTENT

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1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 26(824-849)

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM1	1.4M	LCH	RB1#0	23.09	22.07	38.45	PASS
				RB1#2	23.20	22.18	38.45	PASS
				RB1#5	23.02	22.00	38.45	PASS
				RB3#0	23.21	22.19	38.45	PASS
				RB3#2	23.17	22.15	38.45	PASS
				RB3#3	23.05	22.03	38.45	PASS
				RB6#0	22.15	21.13	38.45	PASS
			MCH	RB1#0	23.03	22.01	38.45	PASS
				RB1#2	23.11	22.09	38.45	PASS
				RB1#5	23.05	22.03	38.45	PASS
				RB3#0	23.13	22.11	38.45	PASS
				RB3#2	23.03	22.01	38.45	PASS
				RB3#3	23.06	22.04	38.45	PASS
				RB6#0	22.14	21.12	38.45	PASS
			HCH	RB1#0	23.08	22.06	38.45	PASS
				RB1#2	23.24	22.22	38.45	PASS
				RB1#5	22.96	21.94	38.45	PASS
				RB3#0	23.17	22.15	38.45	PASS
				RB3#2	23.24	22.22	38.45	PASS
				RB3#3	23.22	22.20	38.45	PASS
				RB6#0	22.27	21.25	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM2	1.4M	LCH	RB1#0	22.57	21.55	38.45	PASS
				RB1#2	22.32	21.30	38.45	PASS
				RB1#5	22.52	21.50	38.45	PASS
				RB3#0	22.36	21.34	38.45	PASS
				RB3#2	22.40	21.38	38.45	PASS
				RB3#3	22.44	21.42	38.45	PASS
				RB6#0	21.19	20.17	38.45	PASS
			MCH	RB1#0	22.64	21.62	38.45	PASS
				RB1#2	22.48	21.46	38.45	PASS
				RB1#5	22.57	21.55	38.45	PASS
				RB3#0	22.33	21.31	38.45	PASS
				RB3#2	22.45	21.43	38.45	PASS
				RB3#3	22.41	21.39	38.45	PASS
				RB6#0	21.27	20.25	38.45	PASS
			HCH	RB1#0	22.48	21.46	38.45	PASS
				RB1#2	22.41	21.39	38.45	PASS
				RB1#5	22.06	21.04	38.45	PASS
				RB3#0	22.31	21.29	38.45	PASS
				RB3#2	22.37	21.35	38.45	PASS
				RB3#3	22.14	21.12	38.45	PASS
				RB6#0	21.16	20.14	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM1	3M	LCH	RB1#0	23.37	22.35	38.45	PASS
				RB1#7	23.32	22.30	38.45	PASS
				RB1#14	23.18	22.16	38.45	PASS
				RB8#0	22.33	21.31	38.45	PASS
				RB8#4	22.25	21.23	38.45	PASS
				RB8#7	22.27	21.25	38.45	PASS
				RB15#0	22.21	21.19	38.45	PASS
			MCH	RB1#0	23.28	22.26	38.45	PASS
				RB1#7	23.23	22.21	38.45	PASS
				RB1#14	23.29	22.27	38.45	PASS
				RB8#0	22.30	21.28	38.45	PASS
				RB8#4	22.29	21.27	38.45	PASS
				RB8#7	22.23	21.21	38.45	PASS
				RB15#0	22.21	21.19	38.45	PASS
			HCH	RB1#0	23.39	22.37	38.45	PASS
				RB1#7	23.46	22.44	38.45	PASS
				RB1#14	23.23	22.21	38.45	PASS
				RB8#0	22.43	21.41	38.45	PASS
				RB8#4	22.41	21.39	38.45	PASS
				RB8#7	22.24	21.22	38.45	PASS
				RB15#0	22.34	21.32	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM2	3M	LCH	RB1#0	22.67	21.65	38.45	PASS
				RB1#7	22.52	21.50	38.45	PASS
				RB1#14	22.45	21.43	38.45	PASS
				RB8#0	21.44	20.42	38.45	PASS
				RB8#4	21.40	20.38	38.45	PASS
				RB8#7	21.42	20.40	38.45	PASS
				RB15#0	21.25	20.23	38.45	PASS
			MCH	RB1#0	22.65	21.63	38.45	PASS
				RB1#7	22.48	21.46	38.45	PASS
				RB1#14	22.57	21.55	38.45	PASS
				RB8#0	21.40	20.38	38.45	PASS
				RB8#4	21.35	20.33	38.45	PASS
				RB8#7	21.44	20.42	38.45	PASS
				RB15#0	21.39	20.37	38.45	PASS
			HCH	RB1#0	22.57	21.55	38.45	PASS
				RB1#7	22.56	21.54	38.45	PASS
				RB1#14	22.53	21.51	38.45	PASS
				RB8#0	21.48	20.46	38.45	PASS
				RB8#4	21.39	20.37	38.45	PASS
				RB8#7	21.22	20.20	38.45	PASS
				RB15#0	21.18	20.16	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM1	5M	LCH	RB1#0	23.06	22.04	38.45	PASS
				RB1#13	23.04	22.02	38.45	PASS
				RB1#24	22.98	21.96	38.45	PASS
				RB12#0	22.33	21.31	38.45	PASS
				RB12#6	22.31	21.29	38.45	PASS
				RB12#13	22.19	21.17	38.45	PASS
				RB25#0	22.23	21.21	38.45	PASS
			MCH	RB1#0	23.10	22.08	38.45	PASS
				RB1#13	22.99	21.97	38.45	PASS
				RB1#24	23.07	22.05	38.45	PASS
				RB12#0	22.21	21.19	38.45	PASS
				RB12#6	22.27	21.25	38.45	PASS
				RB12#13	22.16	21.14	38.45	PASS
				RB25#0	22.22	21.20	38.45	PASS
			HCH	RB1#0	23.29	22.27	38.45	PASS
				RB1#13	23.01	21.99	38.45	PASS
				RB1#24	23.01	21.99	38.45	PASS
				RB12#0	22.27	21.25	38.45	PASS
				RB12#6	22.20	21.18	38.45	PASS
				RB12#13	22.21	21.19	38.45	PASS
				RB25#0	22.28	21.26	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM2	5M	LCH	RB1#0	22.55	21.53	38.45	PASS
				RB1#13	22.34	21.32	38.45	PASS
				RB1#24	22.40	21.38	38.45	PASS
				RB12#0	21.25	20.23	38.45	PASS
				RB12#6	21.21	20.19	38.45	PASS
				RB12#13	21.16	20.14	38.45	PASS
				RB25#0	21.31	20.29	38.45	PASS
			MCH	RB1#0	22.44	21.42	38.45	PASS
				RB1#13	22.34	21.32	38.45	PASS
				RB1#24	22.23	21.21	38.45	PASS
				RB12#0	21.24	20.22	38.45	PASS
				RB12#6	21.21	20.19	38.45	PASS
				RB12#13	21.14	20.12	38.45	PASS
				RB25#0	21.23	20.21	38.45	PASS
			HCH	RB1#0	22.58	21.56	38.45	PASS
				RB1#13	22.49	21.47	38.45	PASS
				RB1#24	22.31	21.29	38.45	PASS
				RB12#0	21.44	20.42	38.45	PASS
				RB12#6	21.21	20.19	38.45	PASS
				RB12#13	21.11	20.09	38.45	PASS
				RB25#0	21.23	20.21	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM1	10M	LCH	RB1#0	23.37	22.35	38.45	PASS
				RB1#25	23.15	22.13	38.45	PASS
				RB1#49	23.17	22.15	38.45	PASS
				RB25#0	22.27	21.25	38.45	PASS
				RB25#13	22.26	21.24	38.45	PASS
				RB25#25	22.23	21.21	38.45	PASS
				RB50#0	22.18	21.16	38.45	PASS
			MCH	RB1#0	23.27	22.25	38.45	PASS
				RB1#25	23.21	22.19	38.45	PASS
				RB1#49	23.24	22.22	38.45	PASS
				RB25#0	22.28	21.26	38.45	PASS
				RB25#13	22.16	21.14	38.45	PASS
				RB25#25	22.23	21.21	38.45	PASS
				RB50#0	22.26	21.24	38.45	PASS
			HCH	RB1#0	23.43	22.41	38.45	PASS
				RB1#25	23.16	22.14	38.45	PASS
				RB1#49	23.03	22.01	38.45	PASS
				RB25#0	22.33	21.31	38.45	PASS
				RB25#13	22.19	21.17	38.45	PASS
				RB25#25	22.14	21.12	38.45	PASS
				RB50#0	22.36	21.34	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM2	10M	LCH	RB1#0	22.66	21.64	38.45	PASS
				RB1#25	22.38	21.36	38.45	PASS
				RB1#49	22.26	21.24	38.45	PASS
				RB25#0	21.35	20.33	38.45	PASS
				RB25#13	21.22	20.20	38.45	PASS
				RB25#25	21.17	20.15	38.45	PASS
				RB50#0	21.22	20.20	38.45	PASS
			MCH	RB1#0	22.54	21.52	38.45	PASS
				RB1#25	22.38	21.36	38.45	PASS
				RB1#49	22.26	21.24	38.45	PASS
				RB25#0	21.31	20.29	38.45	PASS
				RB25#13	21.28	20.26	38.45	PASS
				RB25#25	21.24	20.22	38.45	PASS
				RB50#0	21.20	20.18	38.45	PASS
			HCH	RB1#0	22.68	21.66	38.45	PASS
				RB1#25	22.32	21.30	38.45	PASS
				RB1#49	22.46	21.44	38.45	PASS
				RB25#0	21.51	20.49	38.45	PASS
				RB25#13	21.21	20.19	38.45	PASS
				RB25#25	21.25	20.23	38.45	PASS
				RB50#0	21.23	20.21	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM1	15M	LCH	RB1#0	23.68	22.66	38.45	PASS
				RB1#38	23.34	22.32	38.45	PASS
				RB1#74	23.23	22.21	38.45	PASS
				RB36#0	22.25	21.23	38.45	PASS
				RB36#18	22.34	21.32	38.45	PASS
				RB36#39	22.39	21.37	38.45	PASS
				RB75#0	22.45	21.43	38.45	PASS
			MCH	RB1#0	23.83	22.81	38.45	PASS
				RB1#38	23.35	22.33	38.45	PASS
				RB1#74	23.39	22.37	38.45	PASS
				RB36#0	22.51	21.49	38.45	PASS
				RB36#18	22.29	21.27	38.45	PASS
				RB36#39	22.44	21.42	38.45	PASS
				RB75#0	22.37	21.35	38.45	PASS
			HCH	RB1#0	23.75	22.73	38.45	PASS
				RB1#38	23.34	22.32	38.45	PASS
				RB1#74	23.27	22.25	38.45	PASS
				RB36#0	22.49	21.47	38.45	PASS
				RB36#18	22.41	21.39	38.45	PASS
				RB36#39	22.42	21.40	38.45	PASS
				RB75#0	22.45	21.43	38.45	PASS

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM2	15M	LCH	RB1#0	22.84	21.82	38.45	PASS
				RB1#38	22.47	21.45	38.45	PASS
				RB1#74	22.54	21.52	38.45	PASS
				RB36#0	21.42	20.40	38.45	PASS
				RB36#18	21.31	20.29	38.45	PASS
				RB36#39	21.37	20.35	38.45	PASS
				RB75#0	21.36	20.34	38.45	PASS
			MCH	RB1#0	22.86	21.84	38.45	PASS
				RB1#38	22.47	21.45	38.45	PASS
				RB1#74	22.37	21.35	38.45	PASS
				RB36#0	21.55	20.53	38.45	PASS
				RB36#18	21.26	20.24	38.45	PASS
				RB36#39	21.30	20.28	38.45	PASS
				RB75#0	21.36	20.34	38.45	PASS
			HCH	RB1#0	22.82	21.80	38.45	PASS
				RB1#38	22.28	21.26	38.45	PASS
				RB1#74	22.31	21.29	38.45	PASS
				RB36#0	21.28	20.26	38.45	PASS
				RB36#18	21.37	20.35	38.45	PASS
				RB36#39	21.31	20.29	38.45	PASS
				RB75#0	21.4	20.38	38.45	PASS

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

ERP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBd]

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
BAND26 (824-849)	TM1/15M	LCH	5.07	13	PASS
		MCH	5.22	13	PASS
		HCH	4.90	13	PASS
	TM2/15M	LCH	5.68	13	PASS
		MCH	5.86	13	PASS
		HCH	5.65	13	PASS

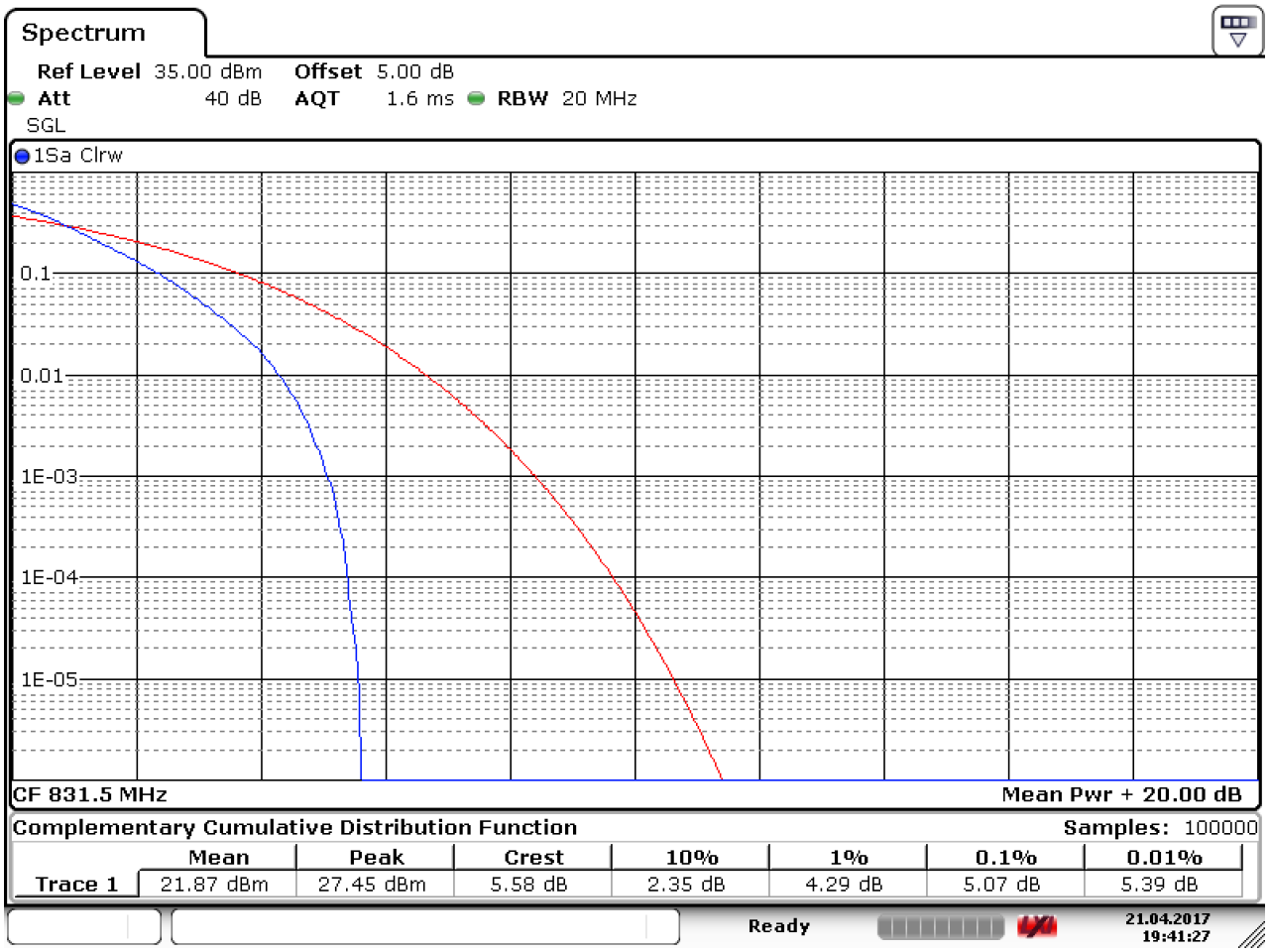
Part Ⅱ - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band26(824-849)

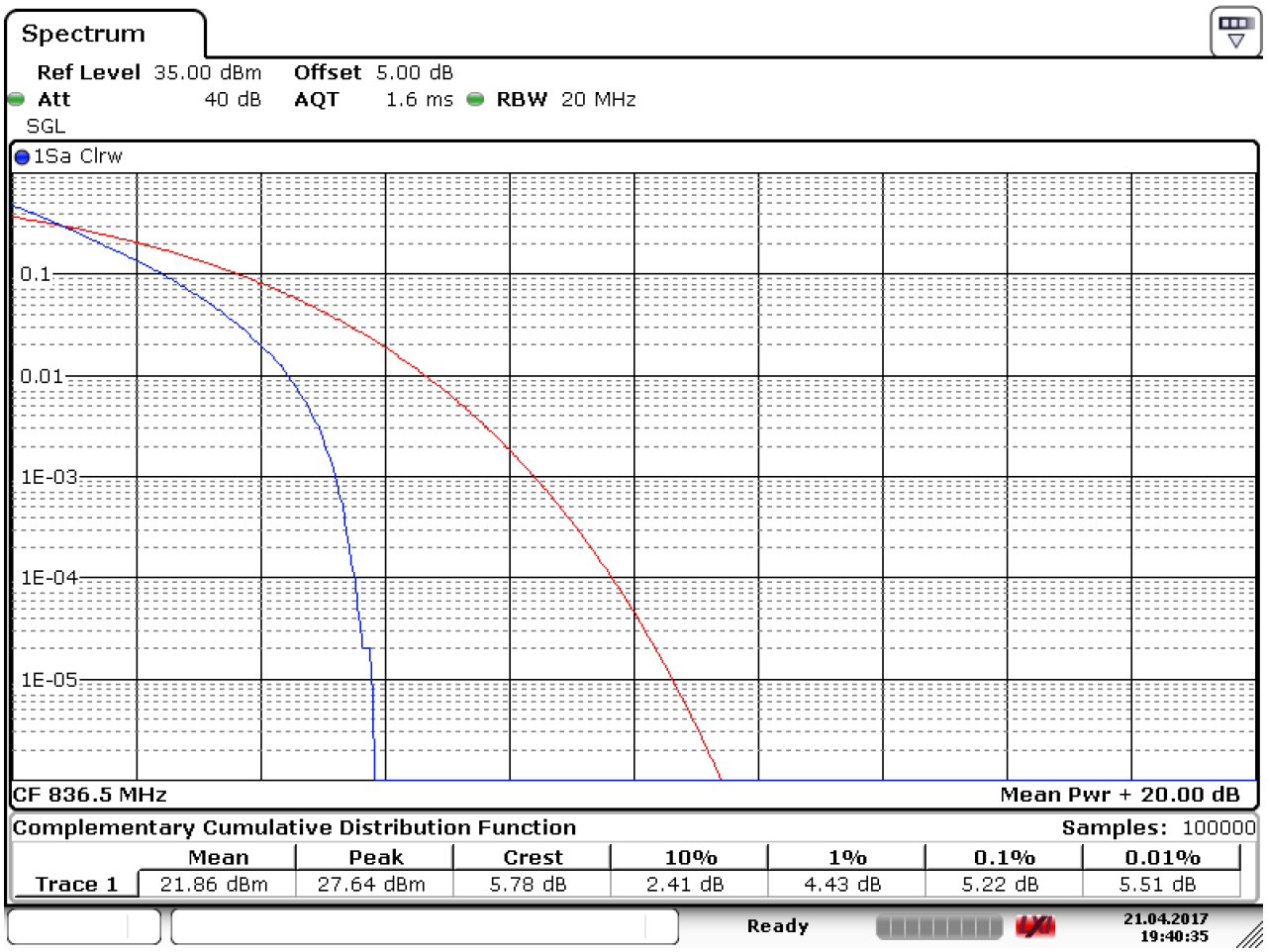
2.1.1.1 Test Mode = LTE/TM1.Bandwidth=15MHz

2.1.1.1.1 Test Channel = LCH



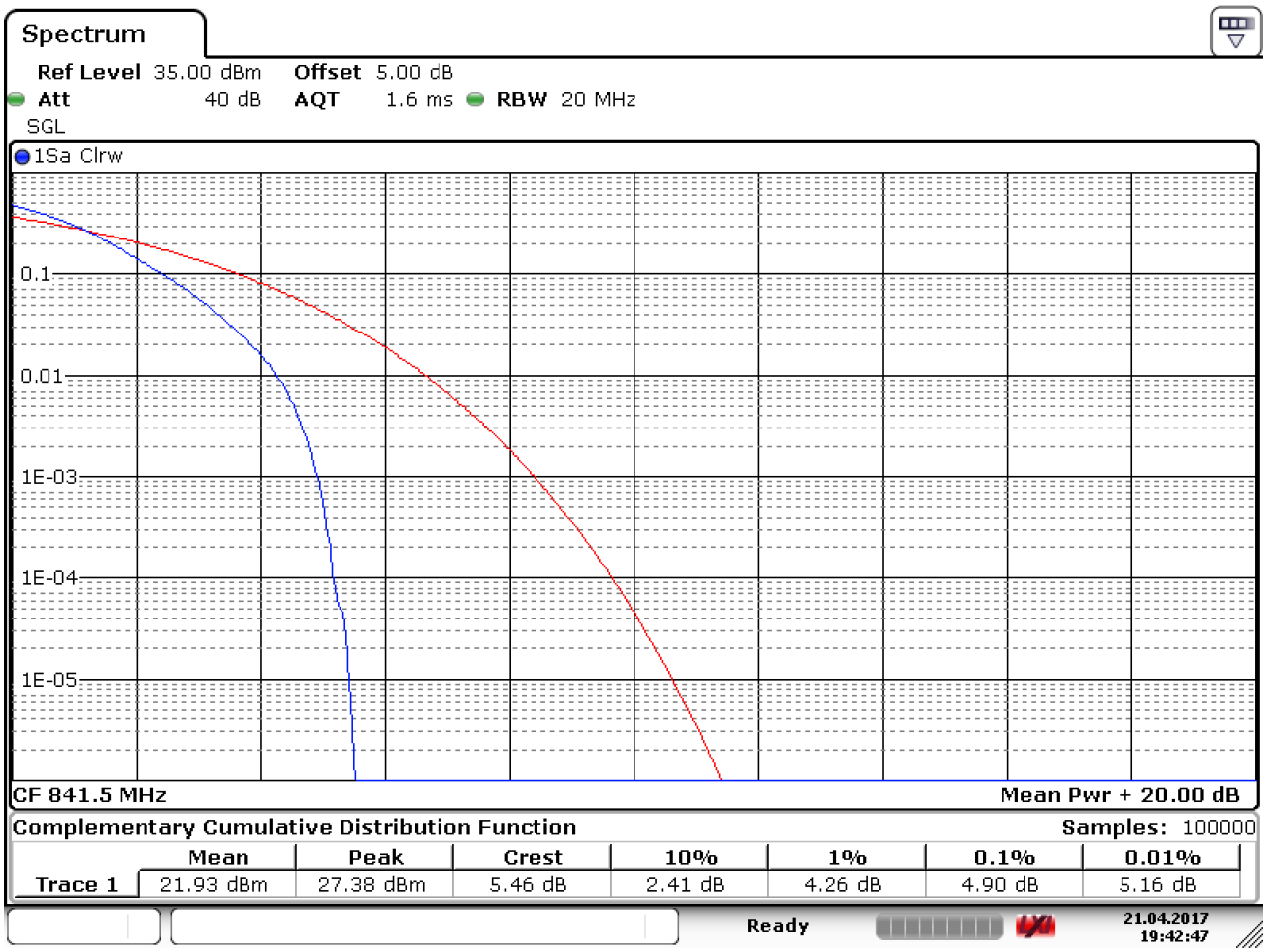
Date: 21.APR.2017 19:41:27

2.1.1.1.2 Test Channel = MCH



Date: 21.APR.2017 19:40:35

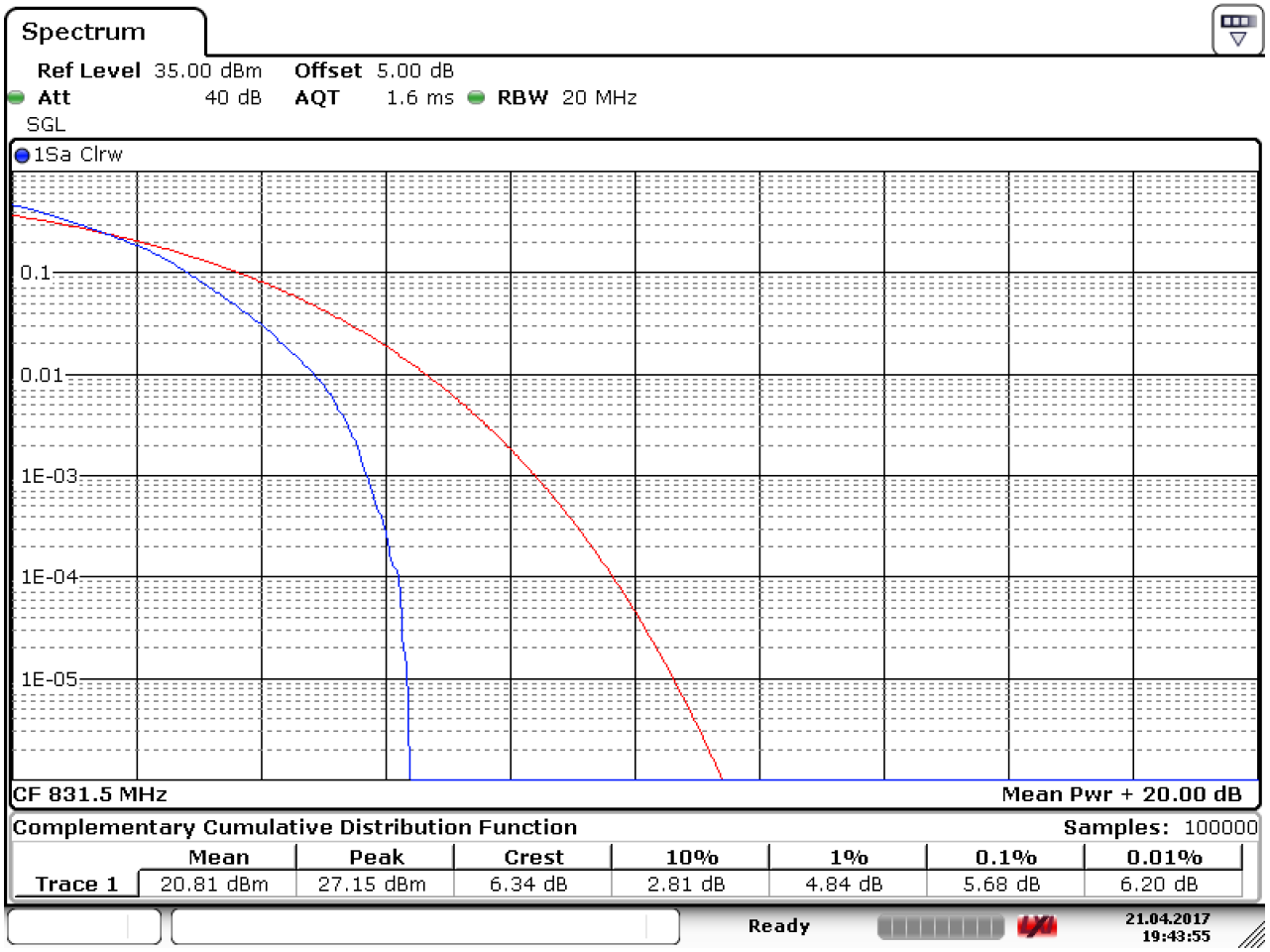
2.1.1.1.3 Test Channel = HCH



Date: 21.APR.2017 19:42:48

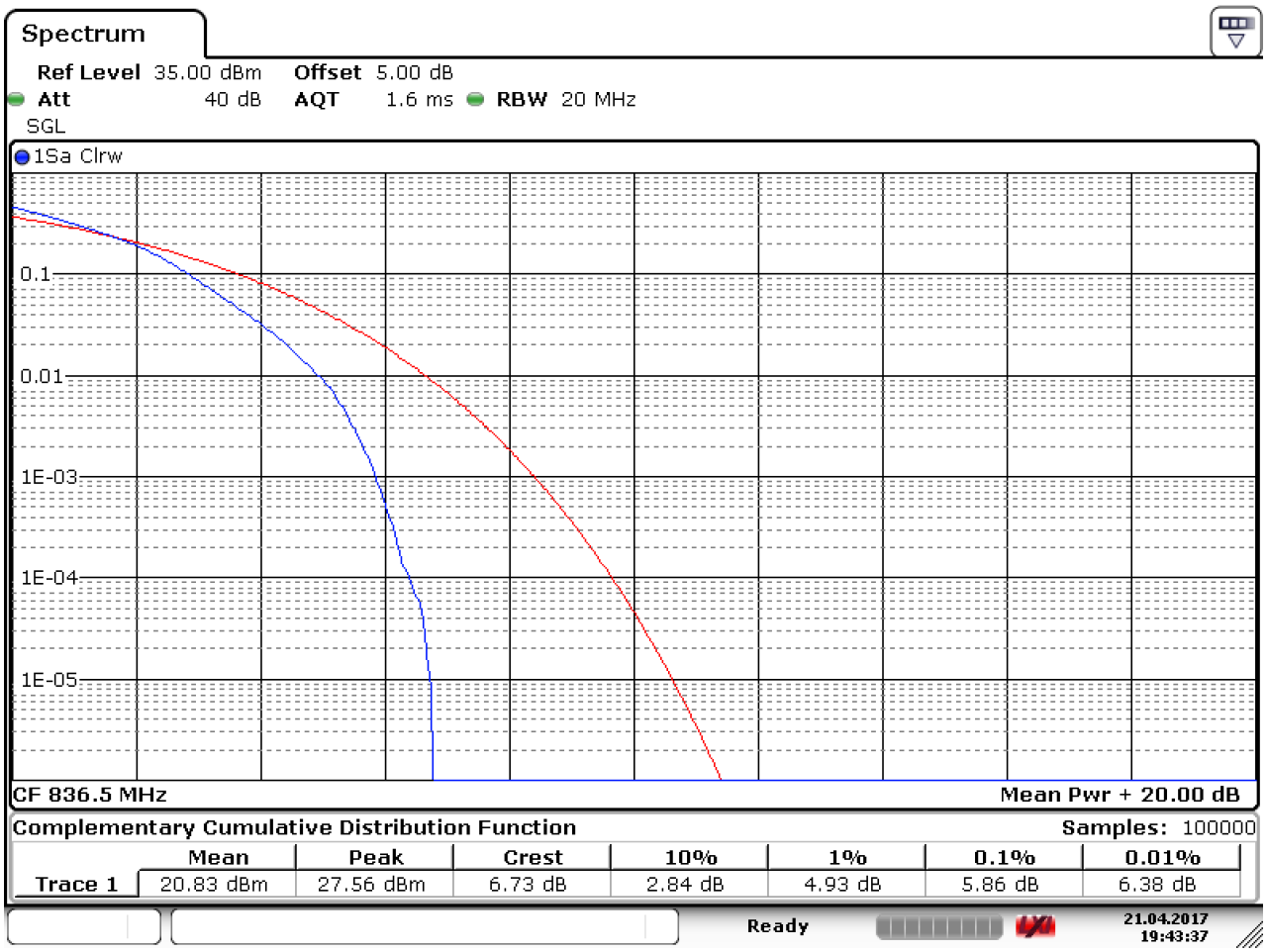
2.1.1.2 Test Mode = LTE/TM2.Bandwidth=15MHz

2.1.1.2.1 Test Channel = LCH



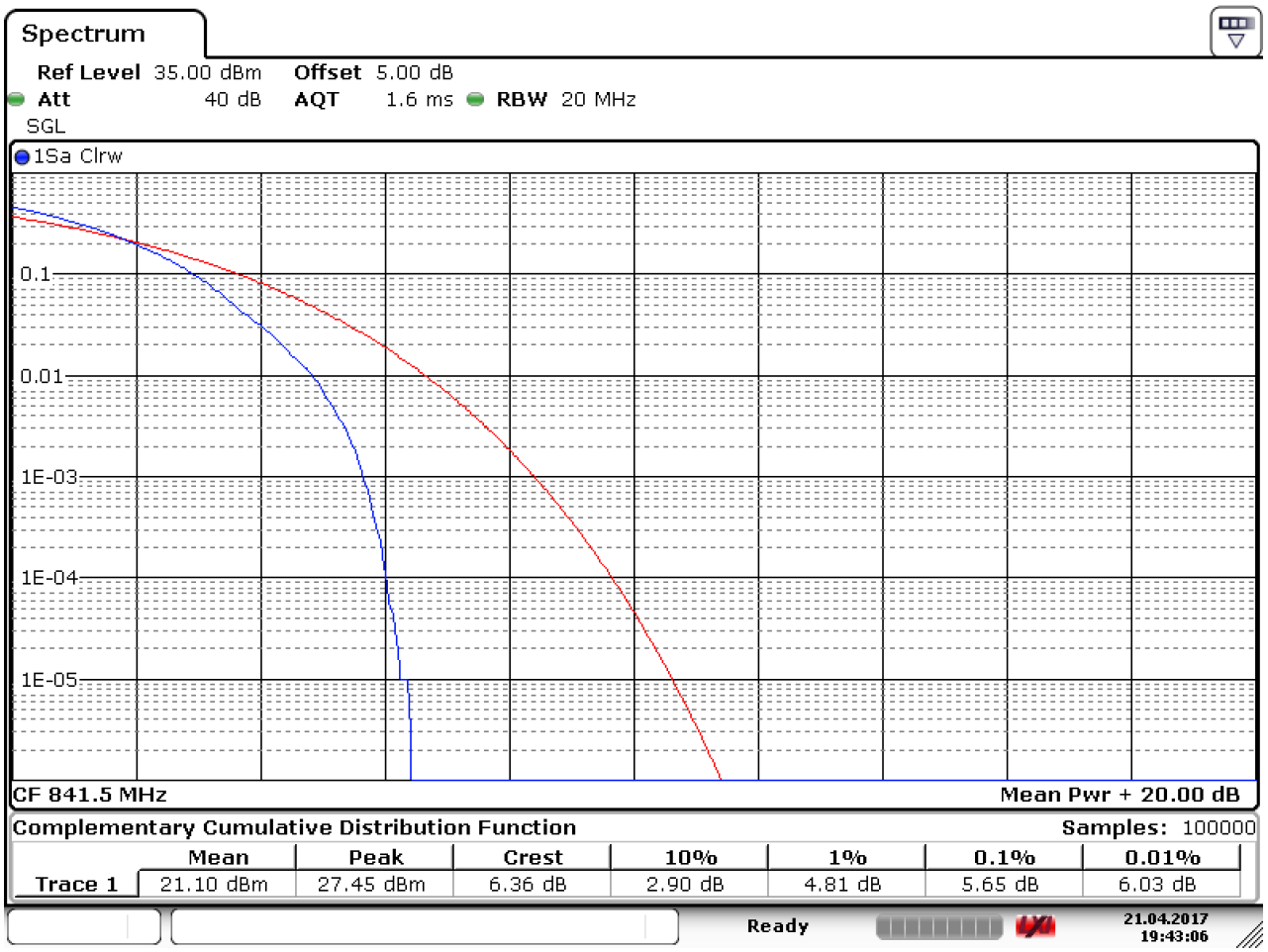
Date: 21.APR.2017 19:43:56

2.1.1.2.2 Test Channel = MCH



Date: 21.APR.2017 19:43:37

2.1.1.2.3 Test Channel = HCH



Date: 21.APR.2017 19:43:06

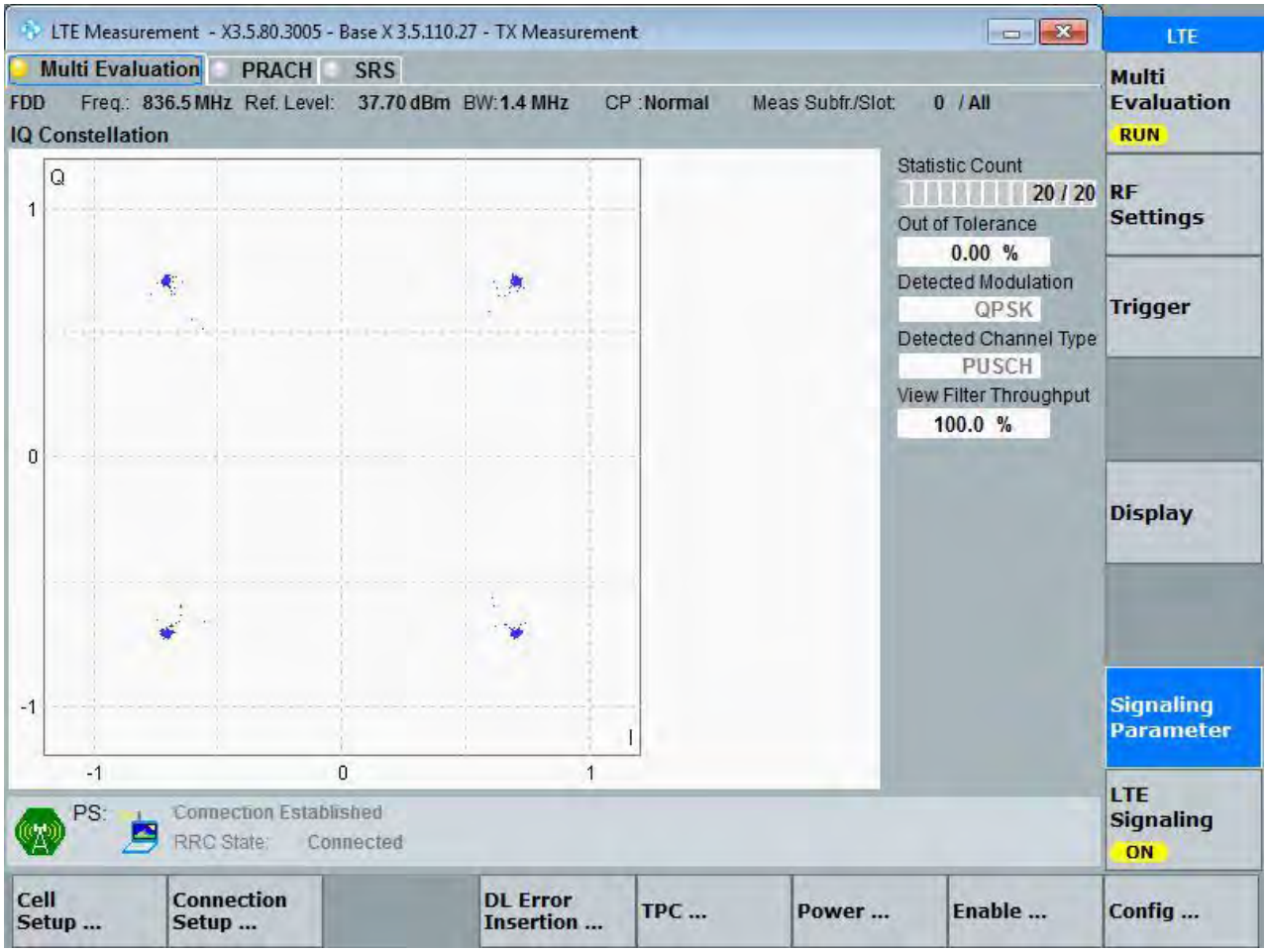
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE band26(824-849)

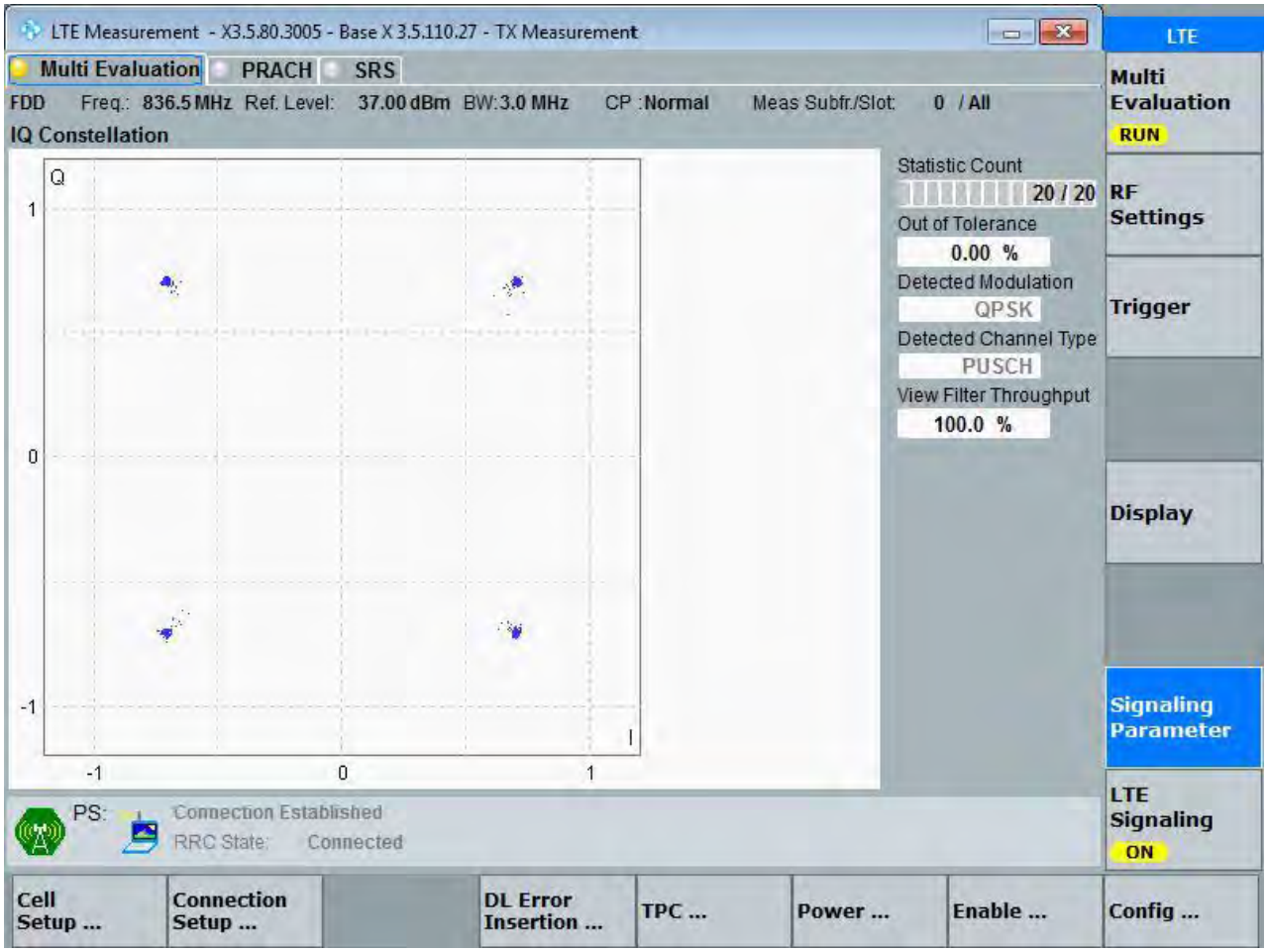
3.1.1.1 Test Mode = LTE /TM1 1.4MHz

3.1.1.1.1 Test Channel = MCH



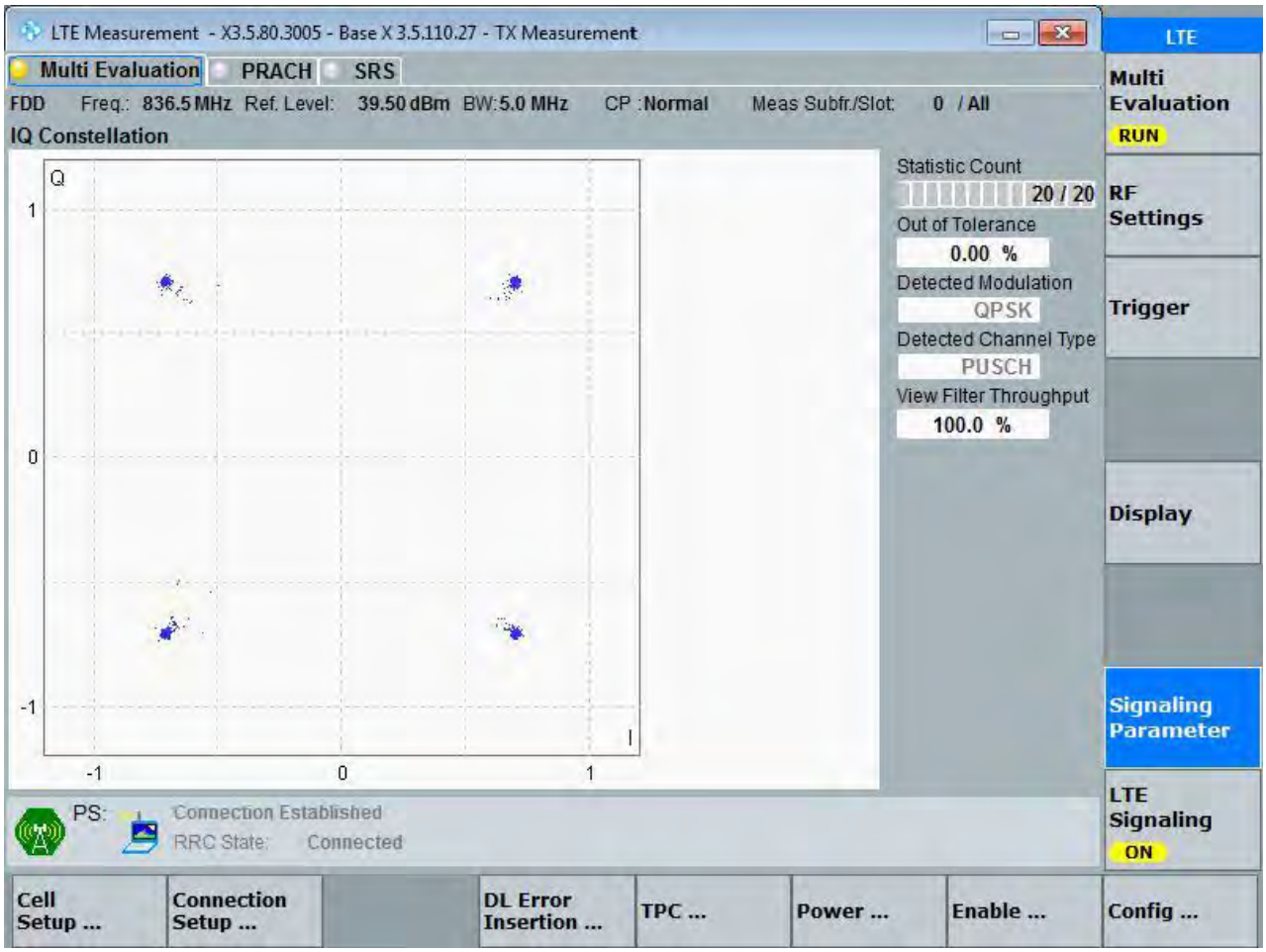
3.1.1.2 Test Mode = LTE /TM1 3MHz

3.1.1.2.1 Test Channel = MCH



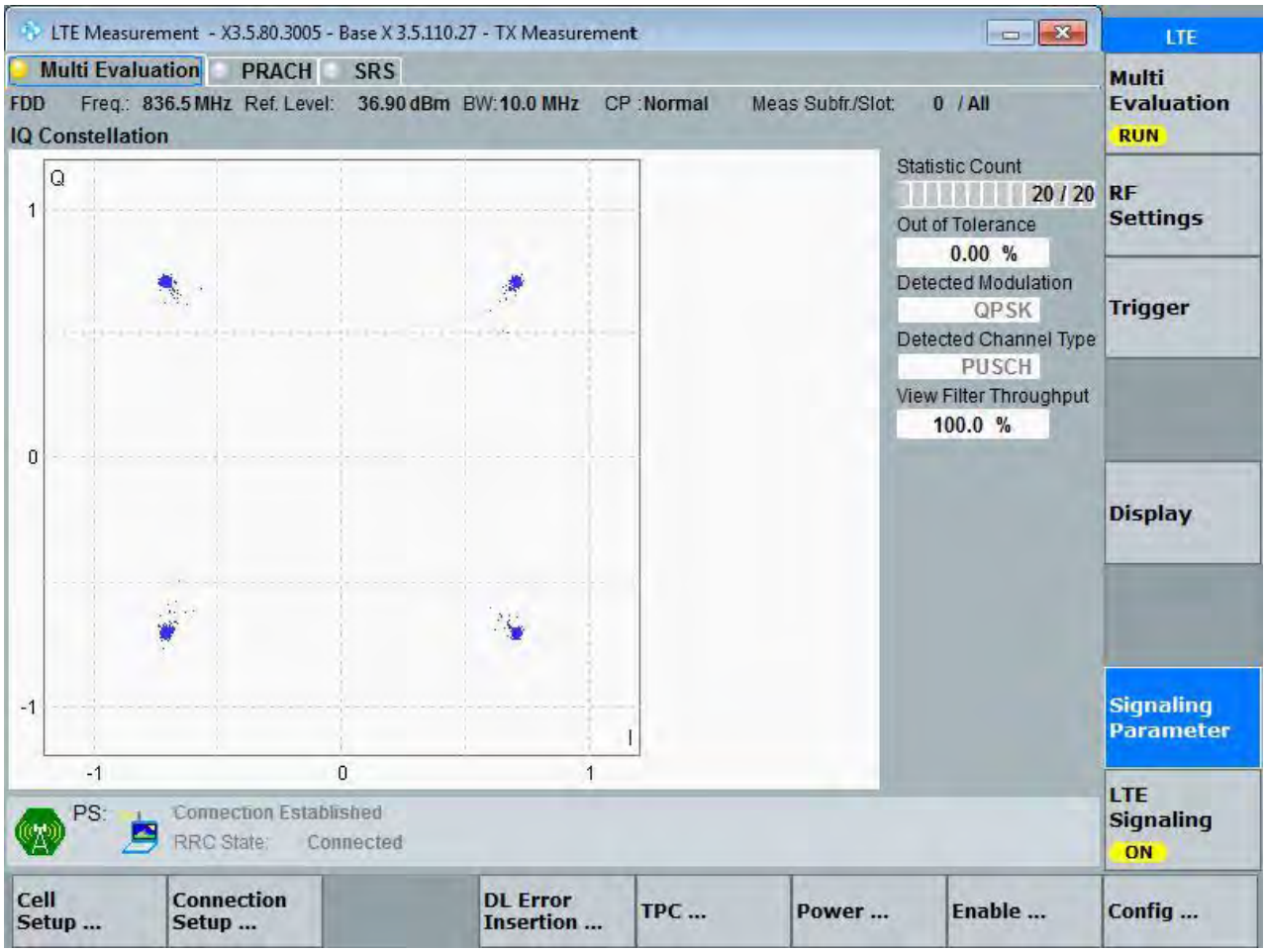
3.1.1.3 Test Mode = LTE /TM1 5MHz

3.1.1.3.1 Test Channel = MCH



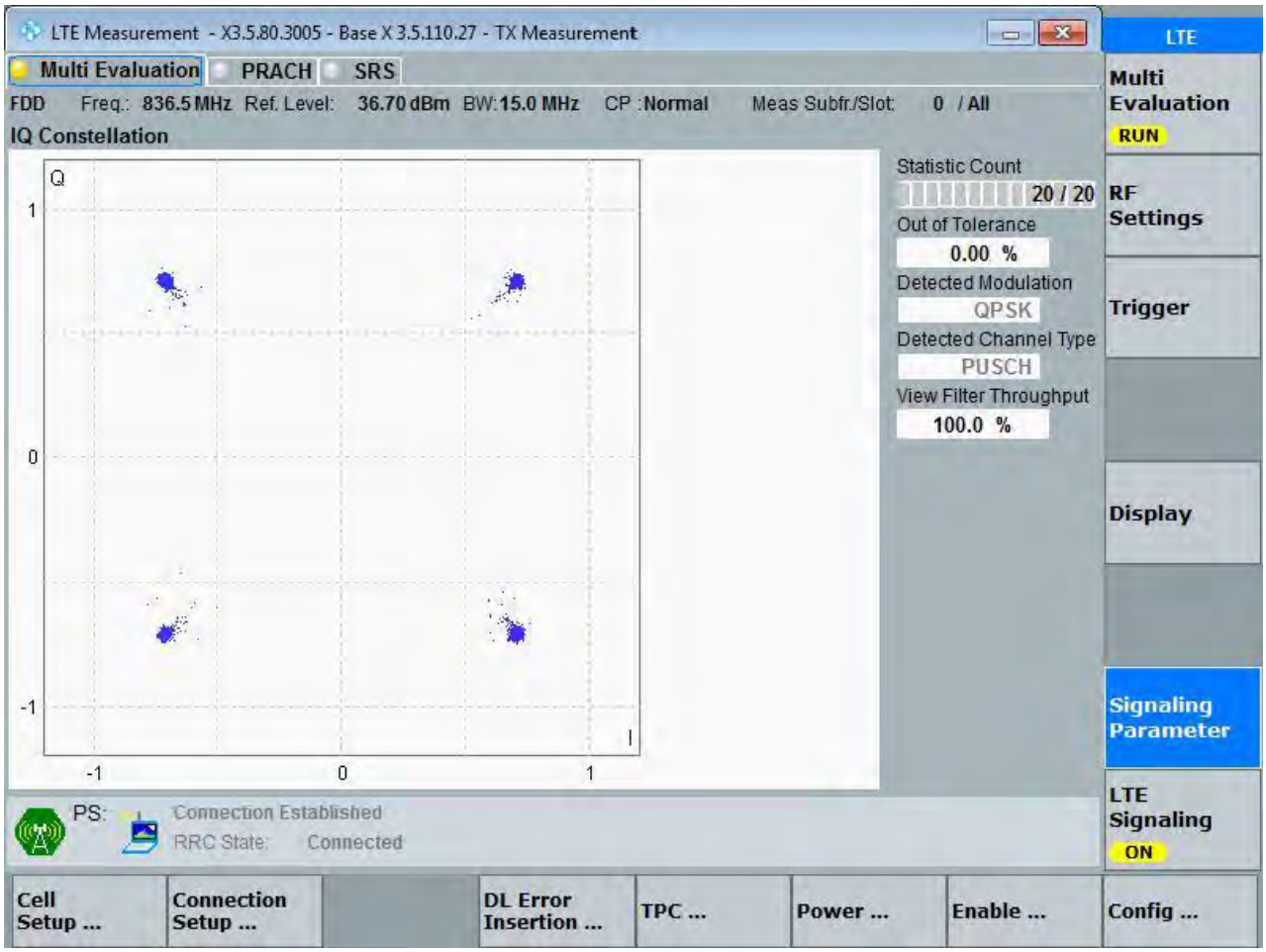
3.1.1.4 Test Mode = LTE /TM1 10MHz

3.1.1.4.1 Test Channel = MCH



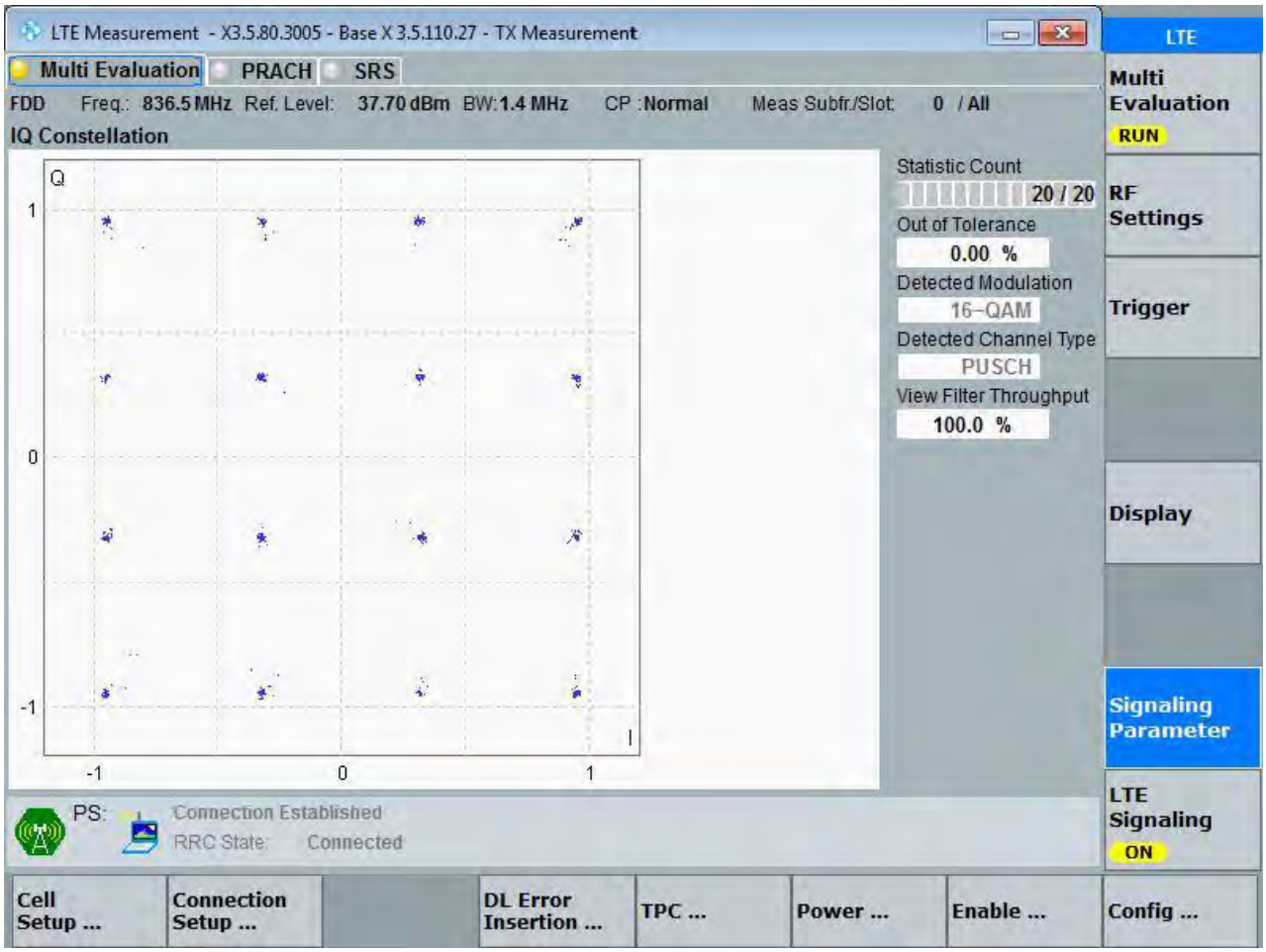
3.1.1.5 Test Mode = LTE /TM1 15MHz

3.1.1.5.1 Test Channel = MCH



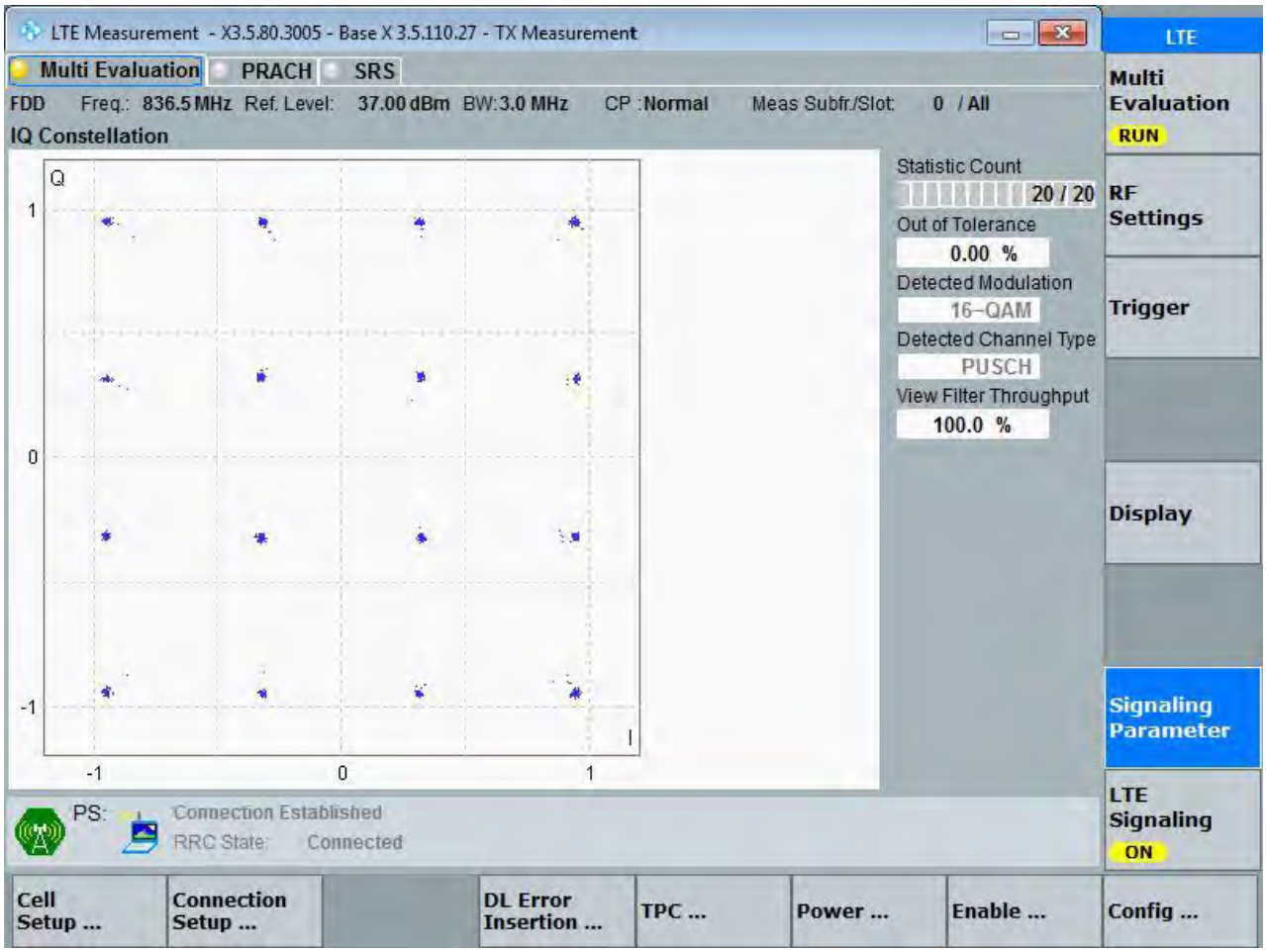
3.1.1.6 Test Mode = LTE /TM2 1.4MHz

3.1.1.6.1 Test Channel = MCH



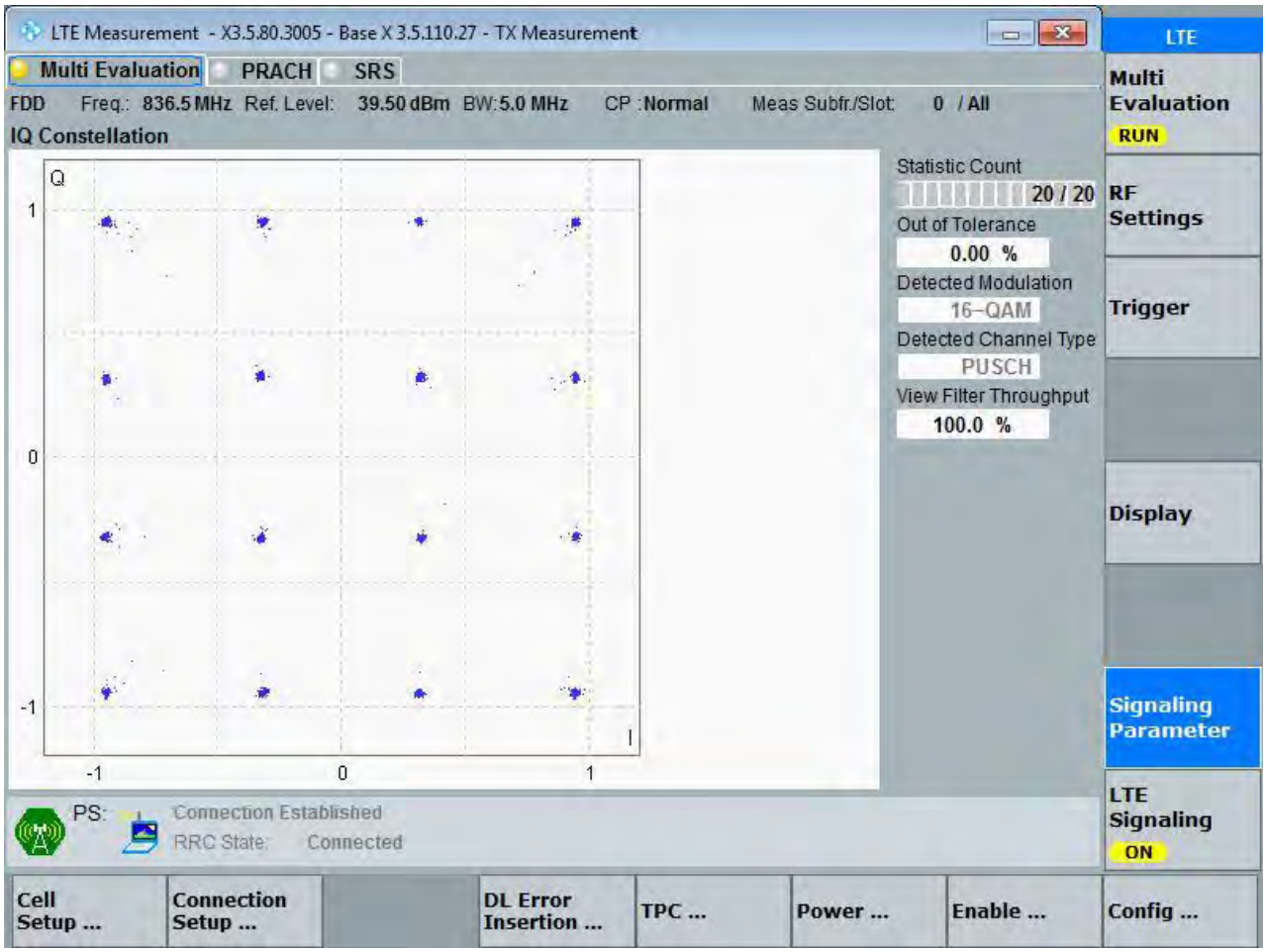
3.1.1.7 Test Mode = LTE /TM2 3MHz

3.1.1.7.1 Test Channel = MCH



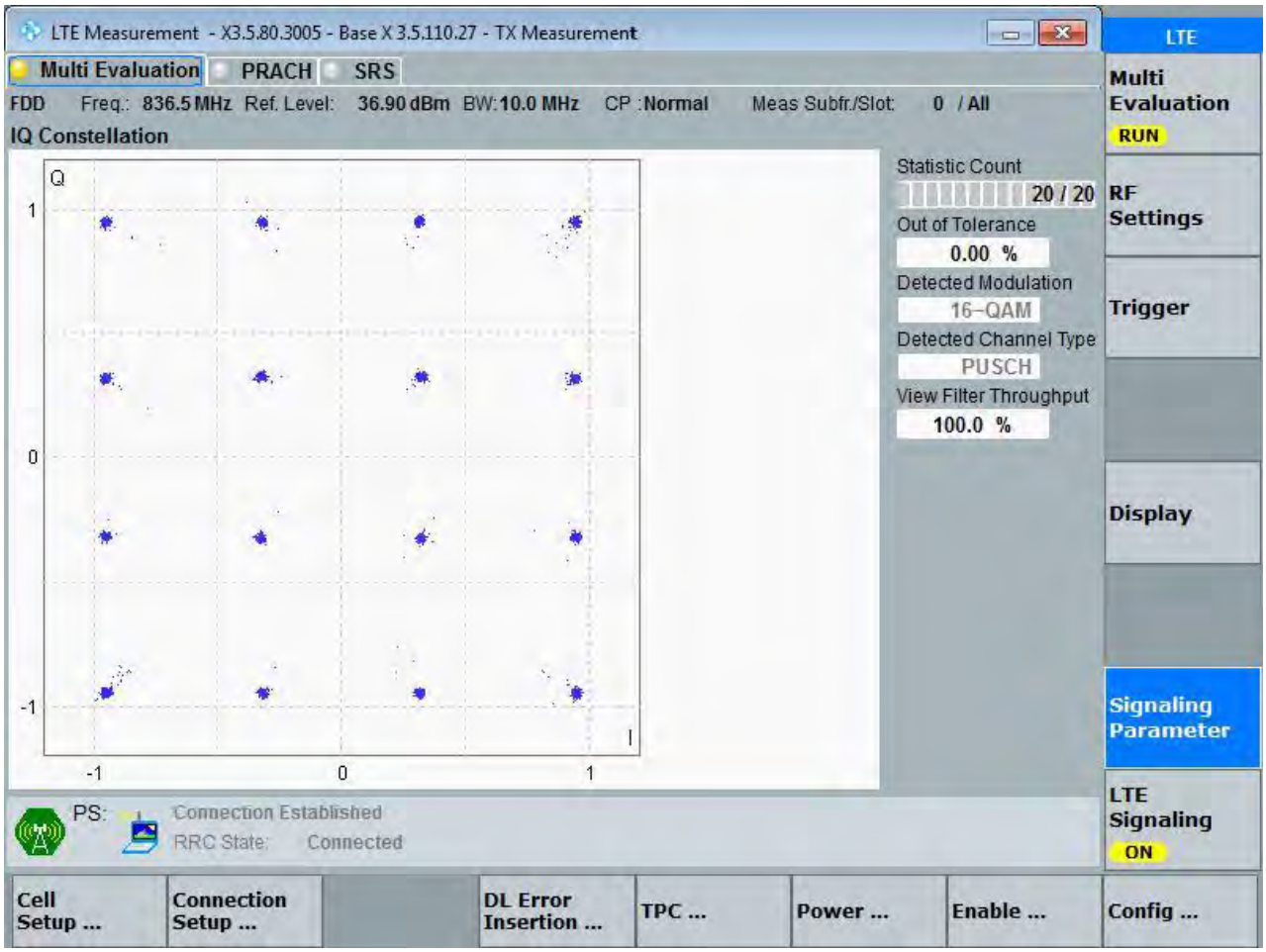
3.1.1.8 Test Mode = LTE /TM2 5MHz

3.1.1.8.1 Test Channel = MCH



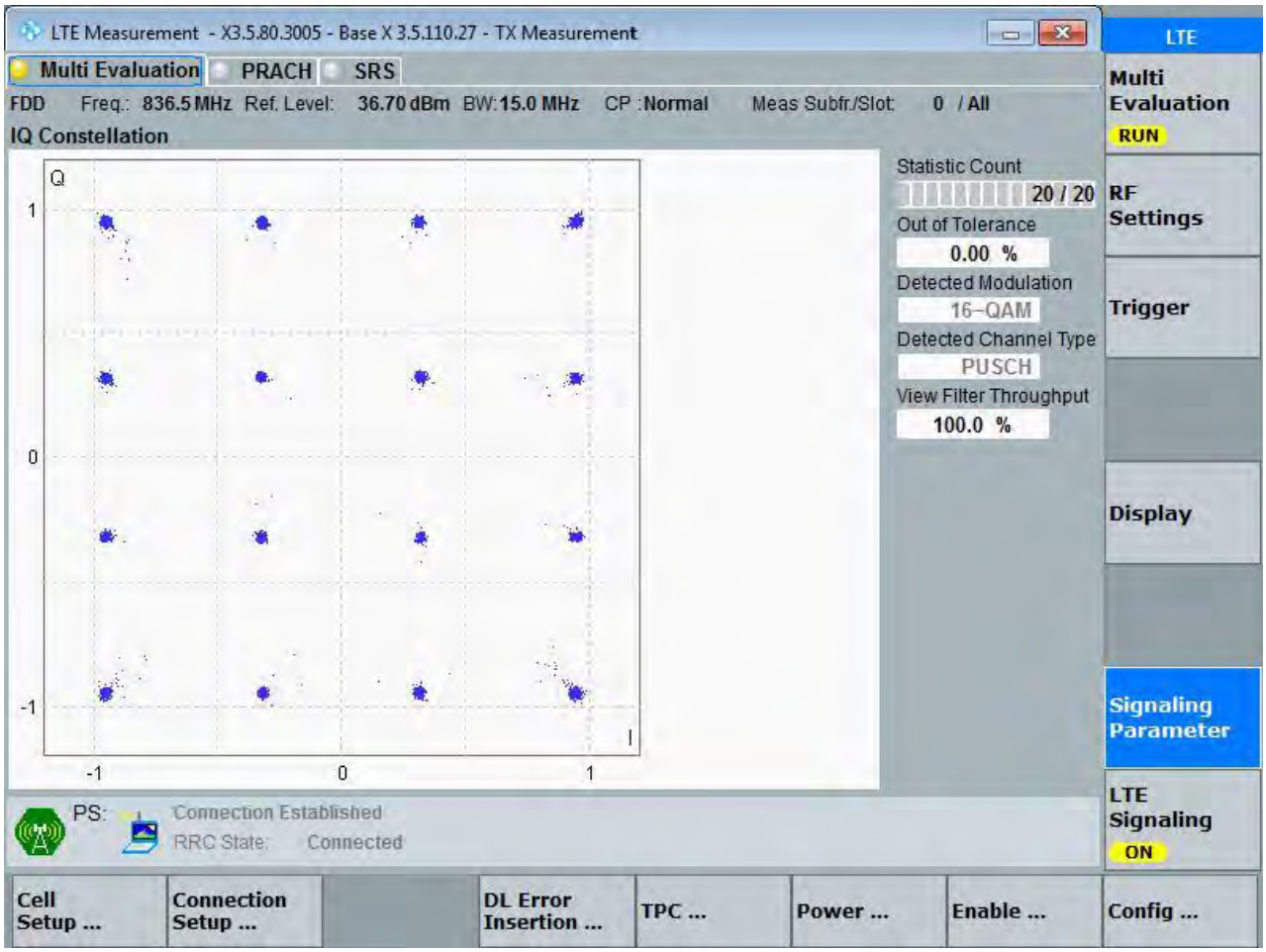
3.1.1.9 Test Mode = LTE /TM2 10MHz

3.1.1.9.1 Test Channel = MCH



3.1.1.10 Test Mode = LTE /TM2 15MHz

3.1.1.10.1 Test Channel = MCH



4 Bandwidth

Part Ⅰ - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band26 (824-849)	TM1/1.4MHz	LCH	1.10	1.32	PASS
		MCH	1.10	1.32	PASS
		HCH	1.10	1.32	PASS
	TM2/1.4MHz	LCH	1.10	1.30	PASS
		MCH	1.10	1.33	PASS
		HCH	1.10	1.32	PASS
	TM1/ 3MHz	LCH	2.69	2.94	PASS
		MCH	2.69	2.93	PASS
		HCH	2.70	2.96	PASS
	TM2/3MHz	LCH	2.69	2.94	PASS
		MCH	2.69	2.96	PASS
		HCH	2.69	2.95	PASS
	TM1/ 5MHz	LCH	4.49	4.98	PASS
		MCH	4.48	4.95	PASS
		HCH	4.50	4.98	PASS
	TM2/ 5MHz	LCH	4.50	4.95	4.98
		MCH	4.49	4.96	PASS
		HCH	4.50	4.98	PASS
	TM1/10MHz	LCH	8.95	9.87	PASS
		MCH	8.97	9.83	PASS
		HCH	8.91	9.65	PASS
	TM2/ 10MHz	LCH	8.93	9.77	PASS
		MCH	8.97	9.85	PASS
		HCH	8.93	9.67	PASS
	TM1/15MHz	LCH	13.55	14.94	PASS
		MCH	13.61	14.96	PASS
		HCH	13.40	14.74	PASS
	TM2/ 15MHz	LCH	13.52	14.76	PASS
		MCH	13.55	14.96	PASS
		HCH	13.46	14.80	PASS

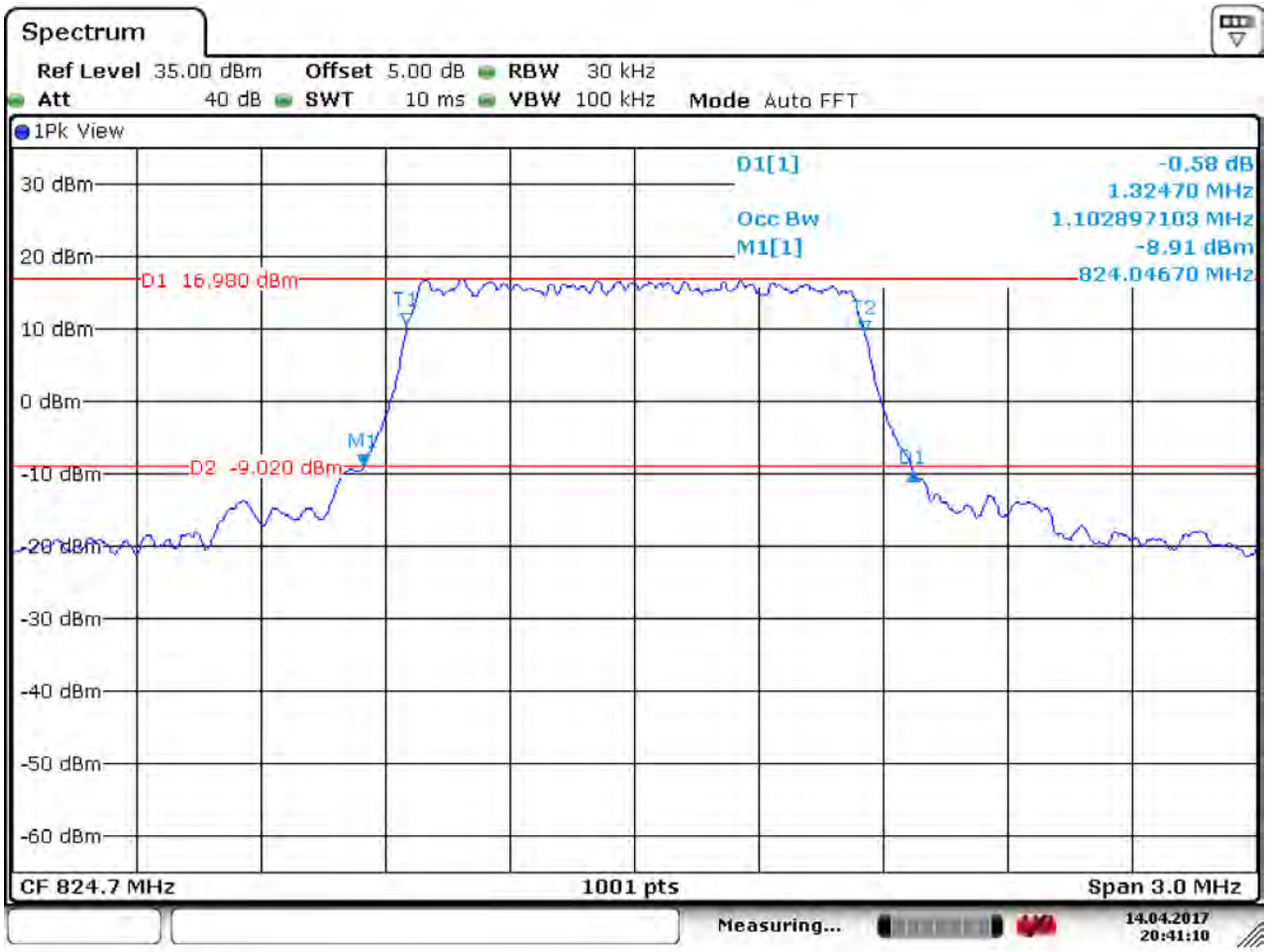
Part Ⅱ –Test Plots

4.1 For LTE

4.1.1 Test Band = LTE band26(824-849)

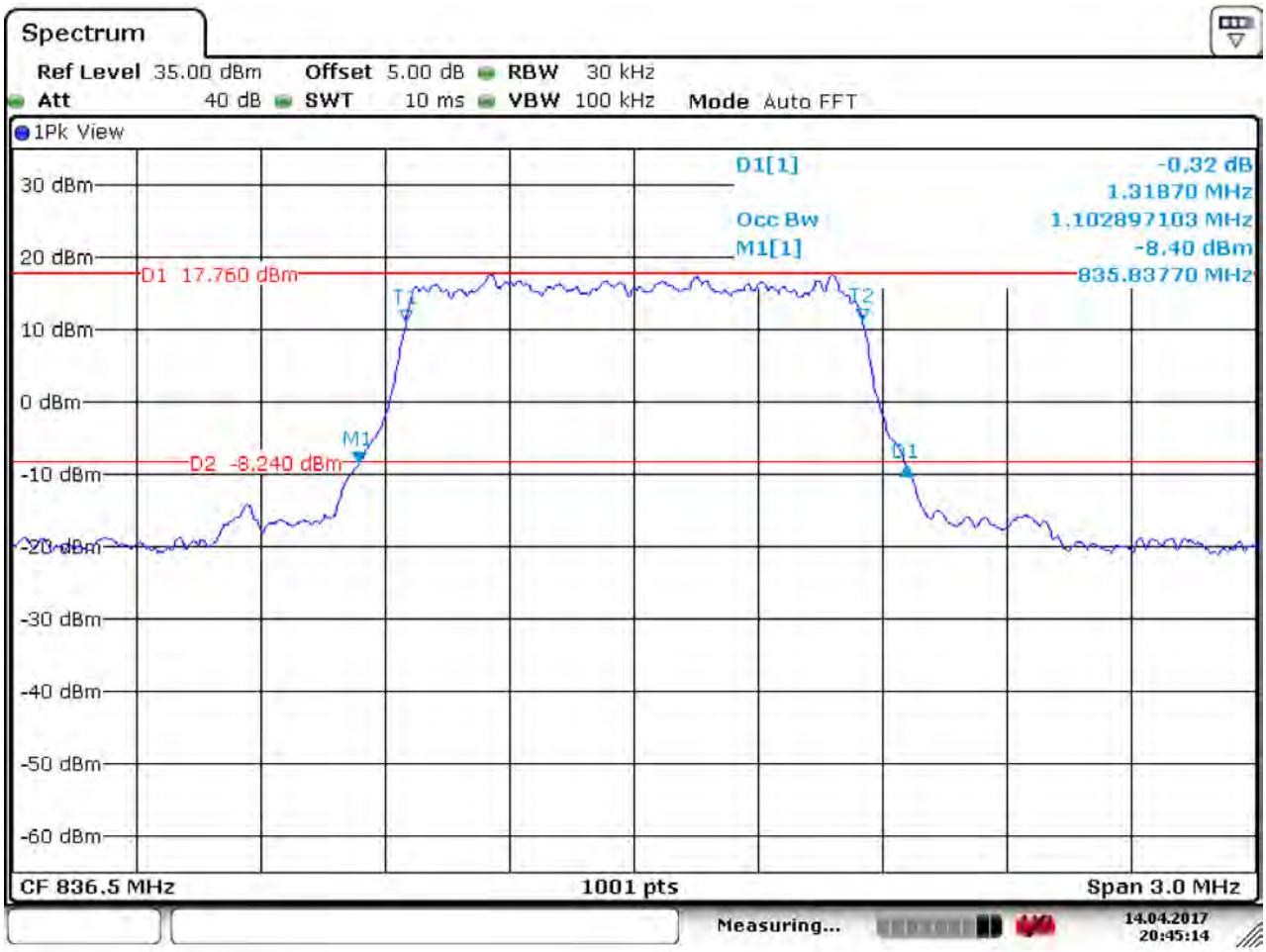
4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH



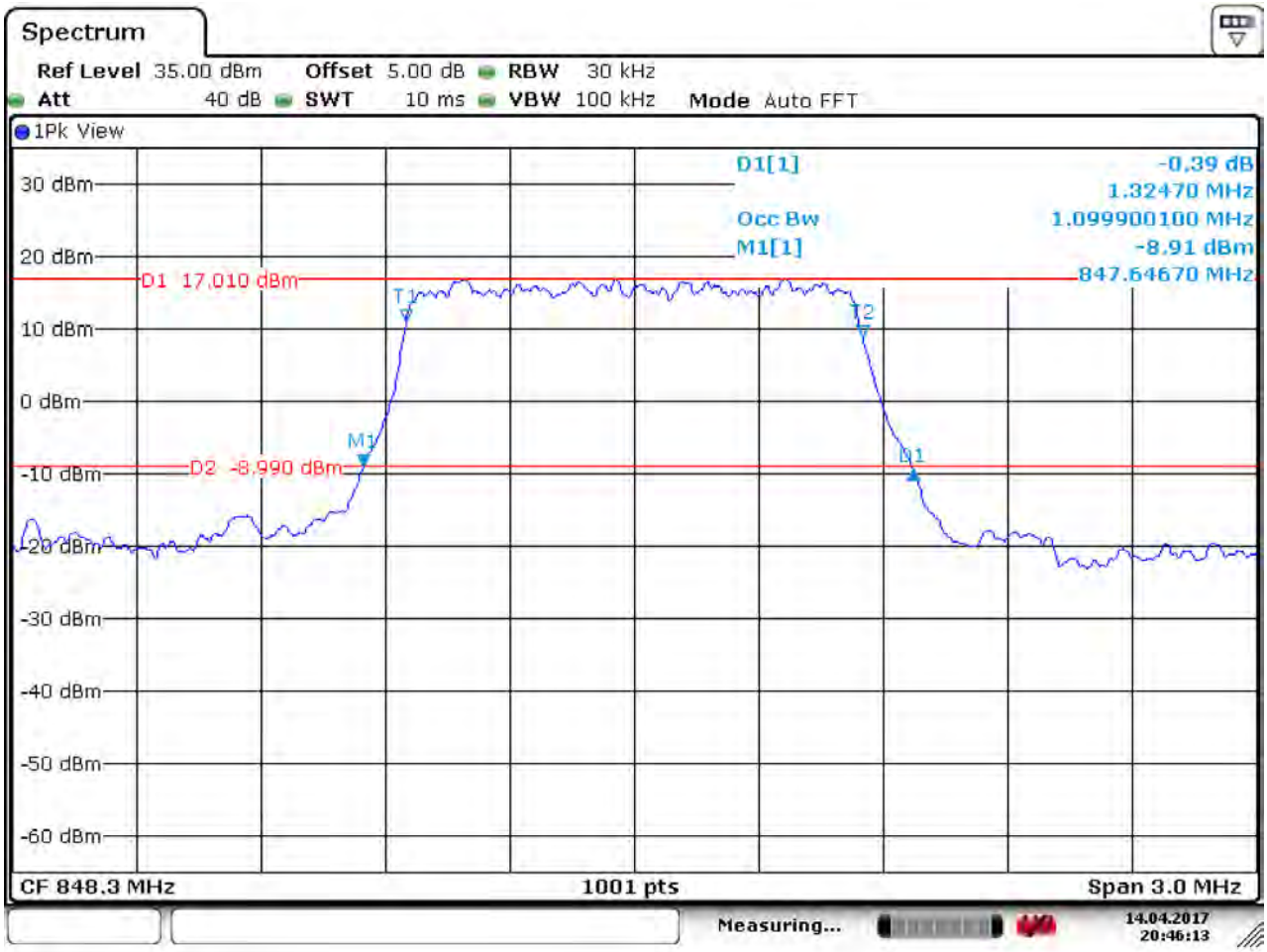
Date: 14.APR.2017 20:41:11

4.1.1.1.2 Test Channel = MCH



Date: 14.APR.2017 20:45:15

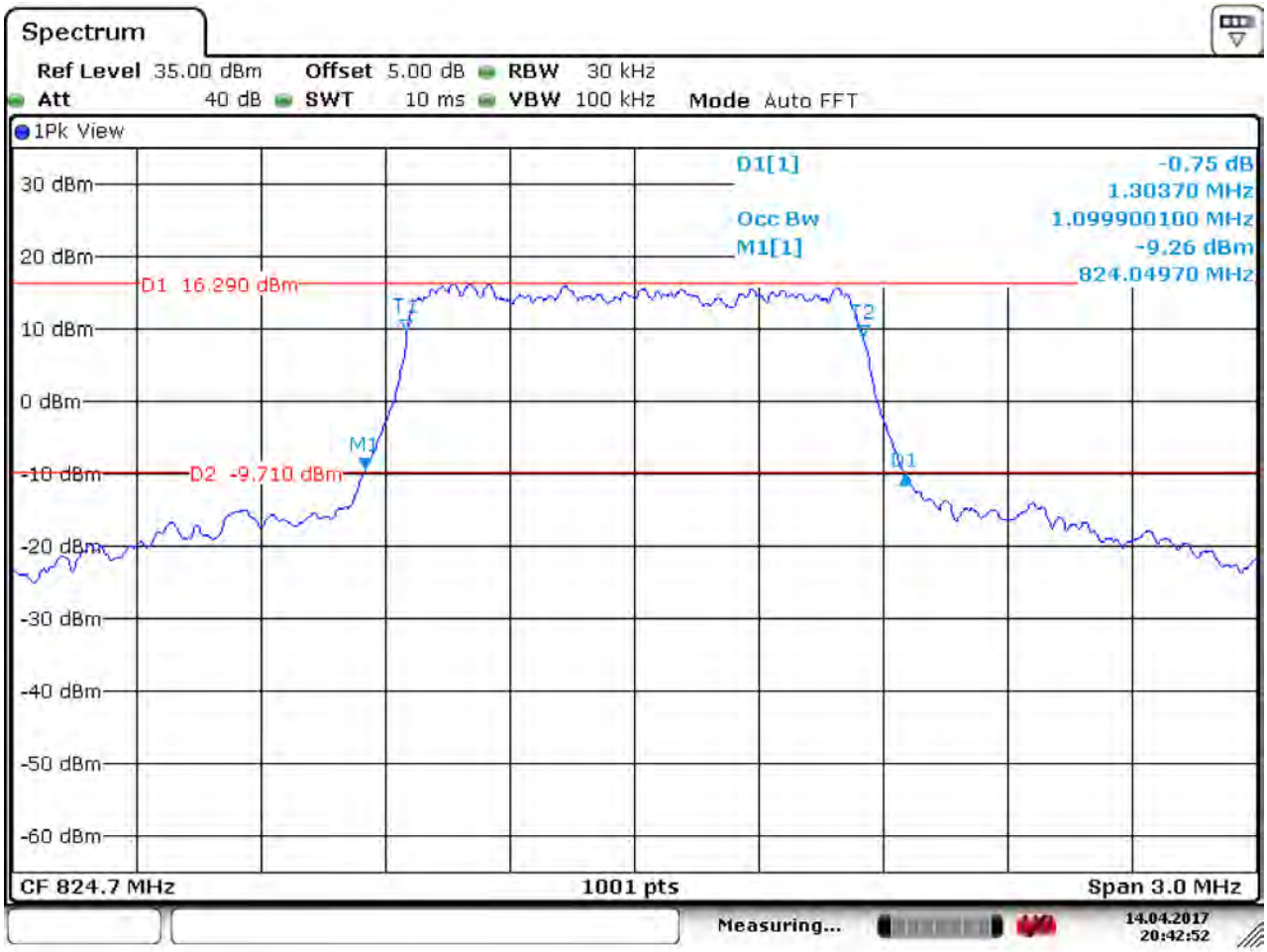
4.1.1.1.3 Test Channel = HCH



Date: 14.APR.2017 20:46:13

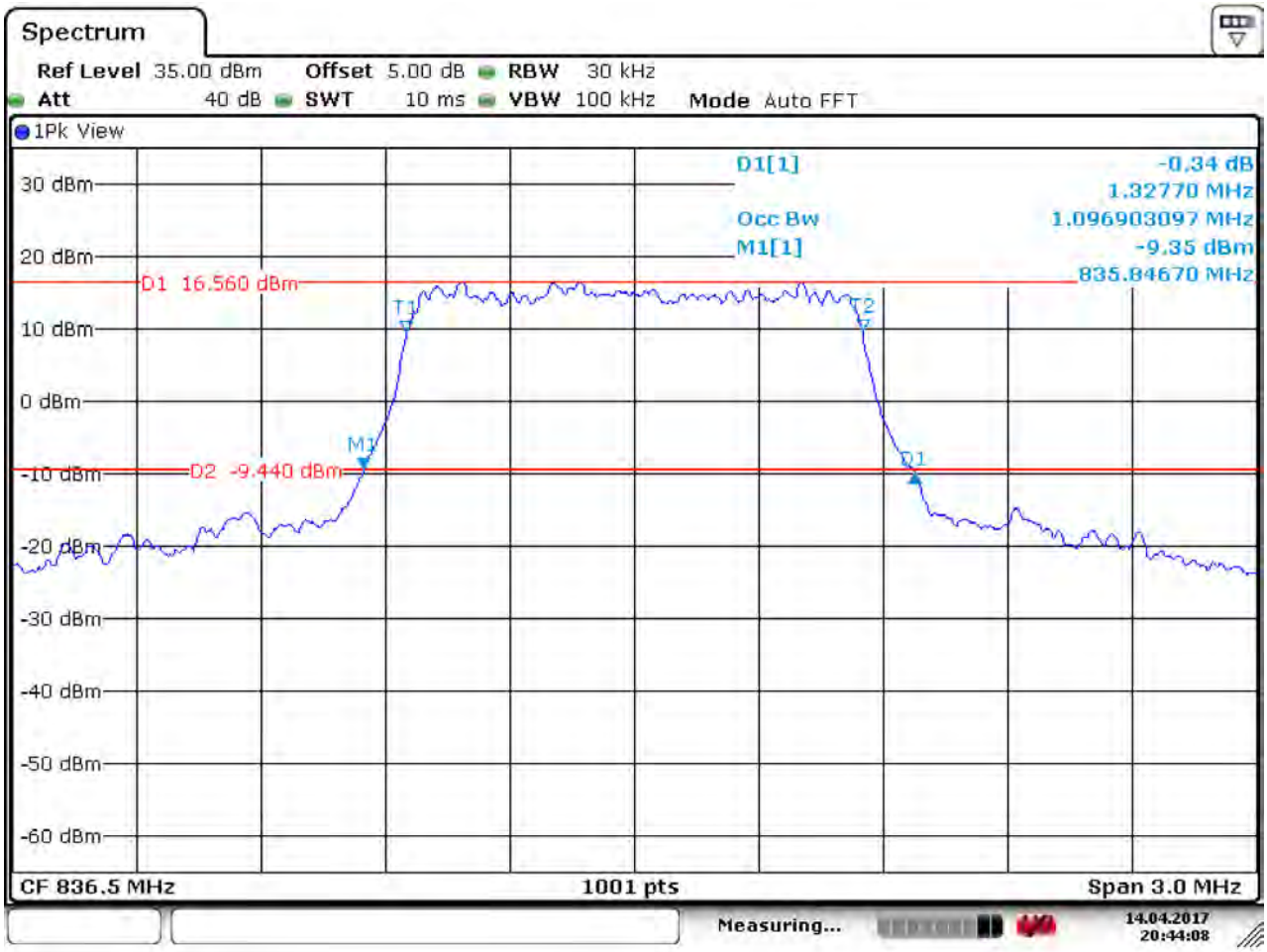
4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH



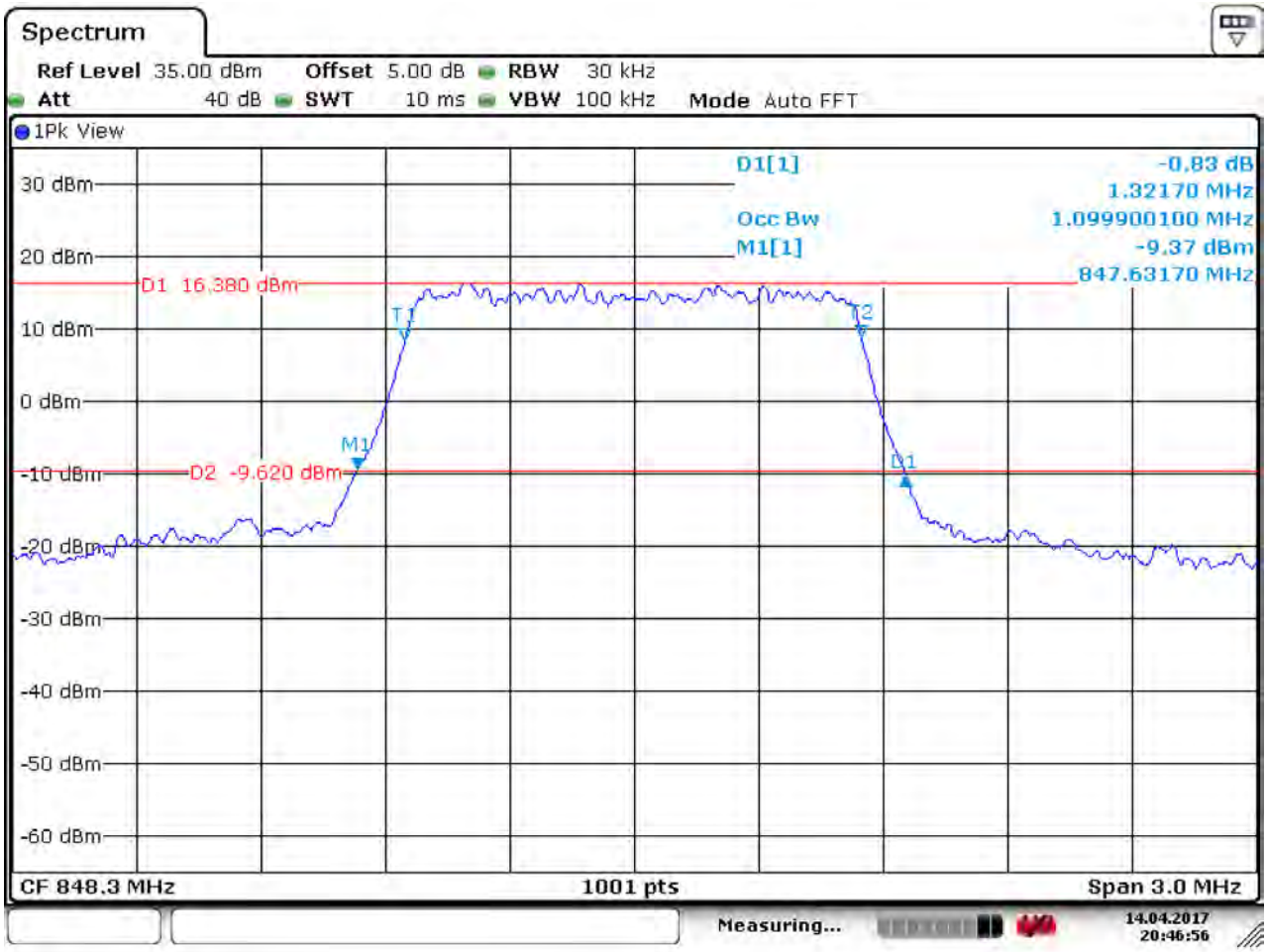
Date: 14.APR.2017 20:42:52

4.1.1.2.2 Test Channel = MCH



Date: 14.APR.2017 20:44:09

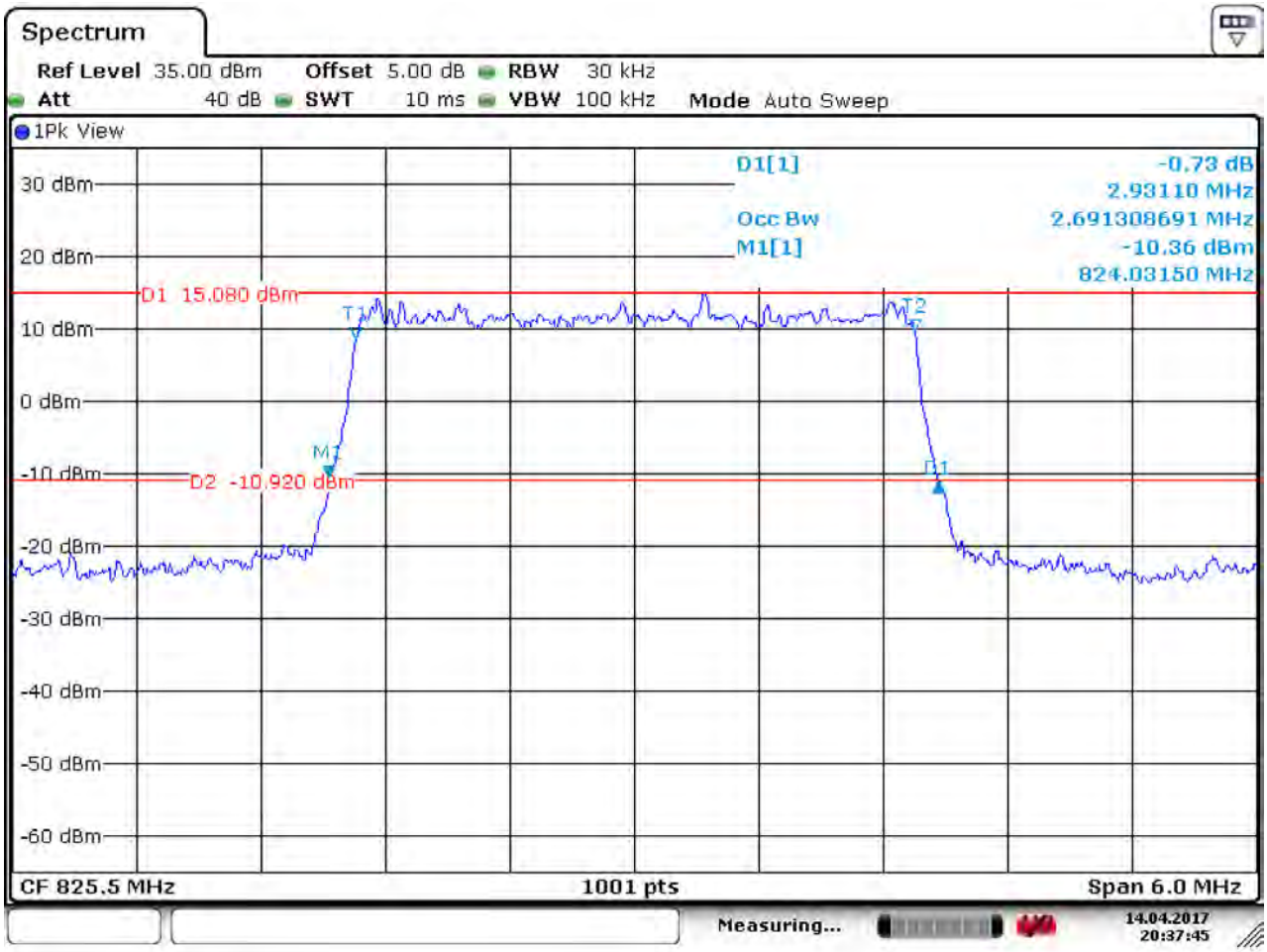
4.1.1.2.3 Test Channel = HCH



Date: 14.APR.2017 20:46:57

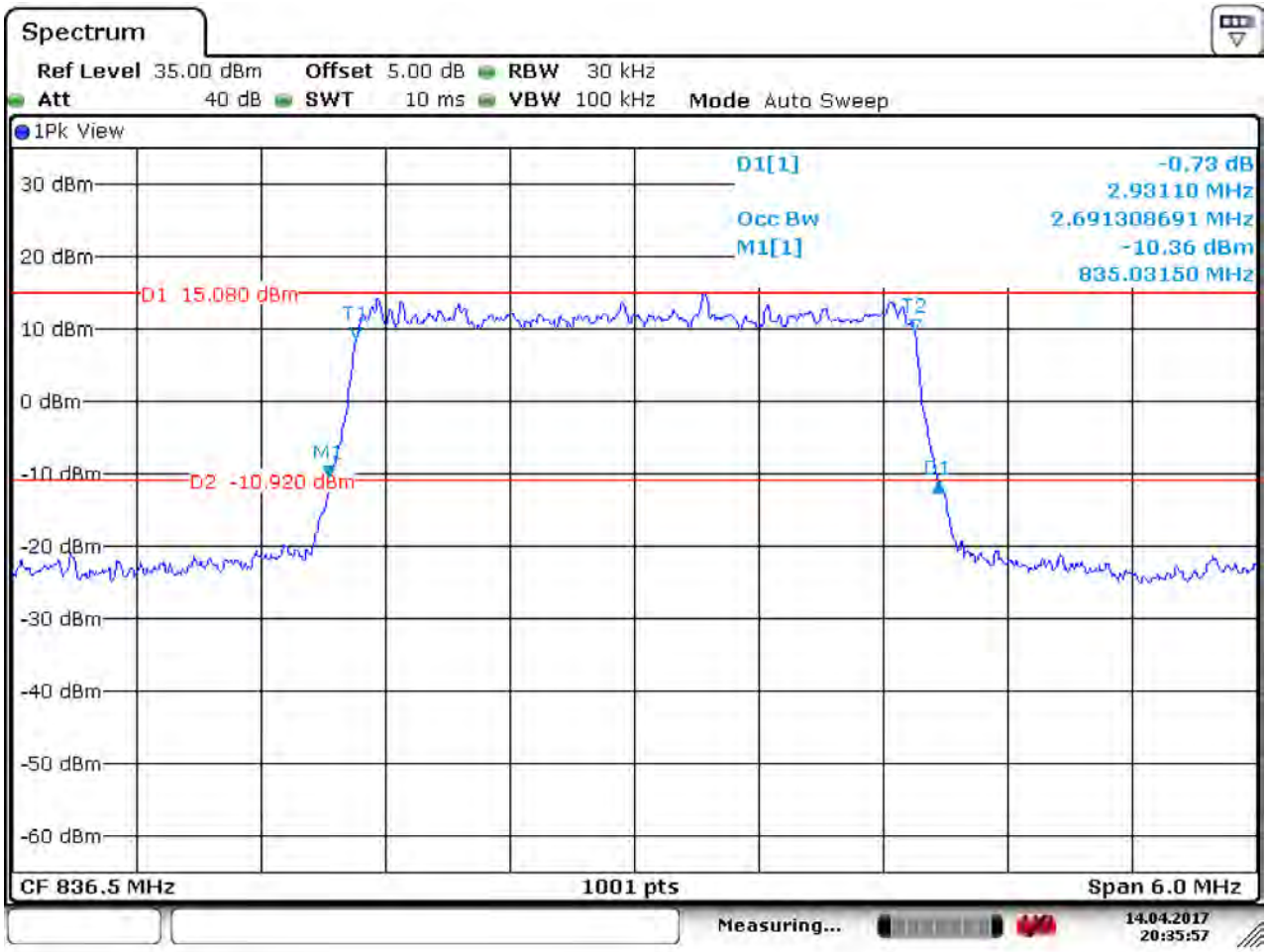
4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH



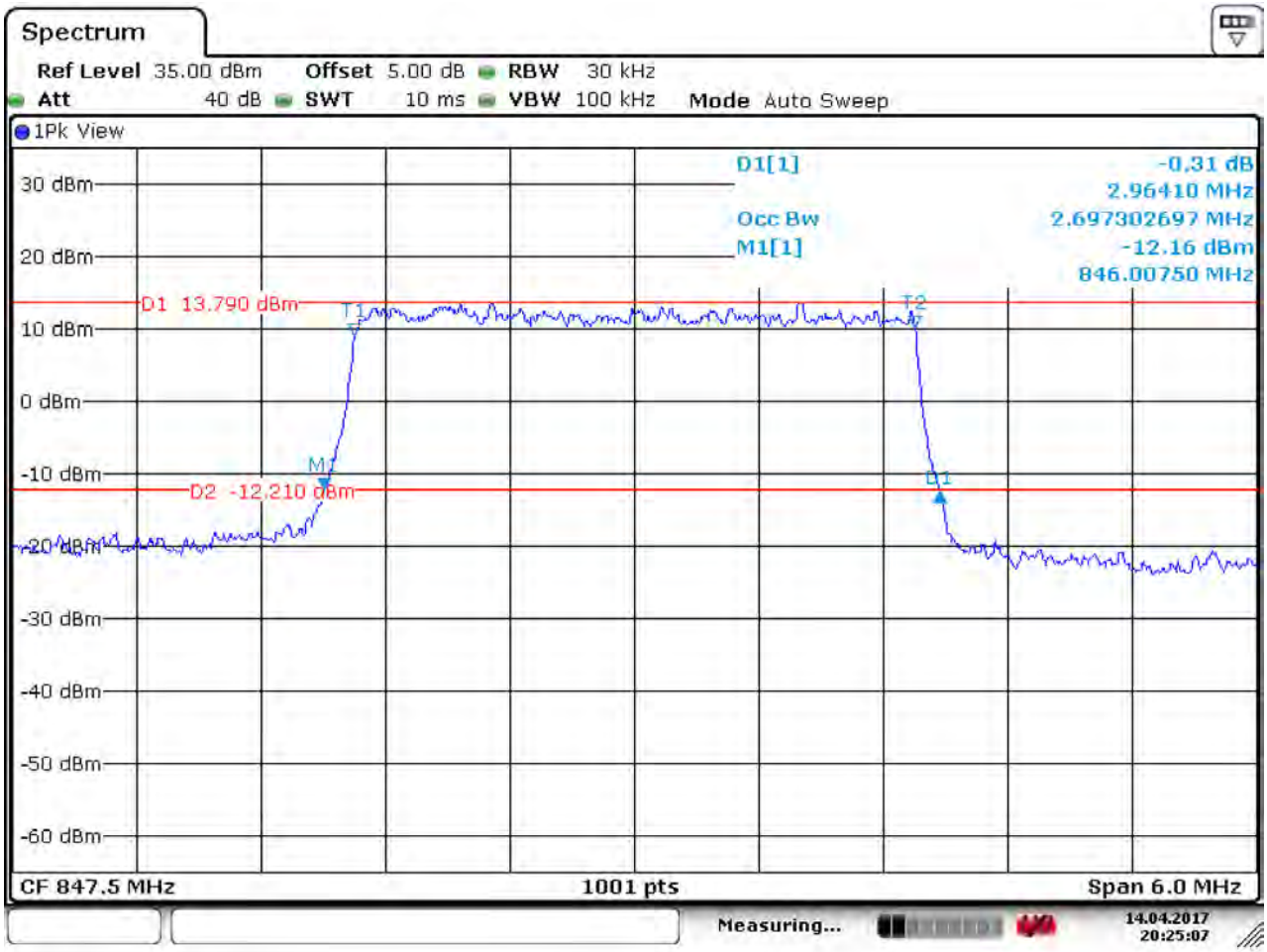
Date: 14.APR.2017 20:37:45

4.1.1.3.2 Test Channel = MCH



Date: 14.APR.2017 20:35:57

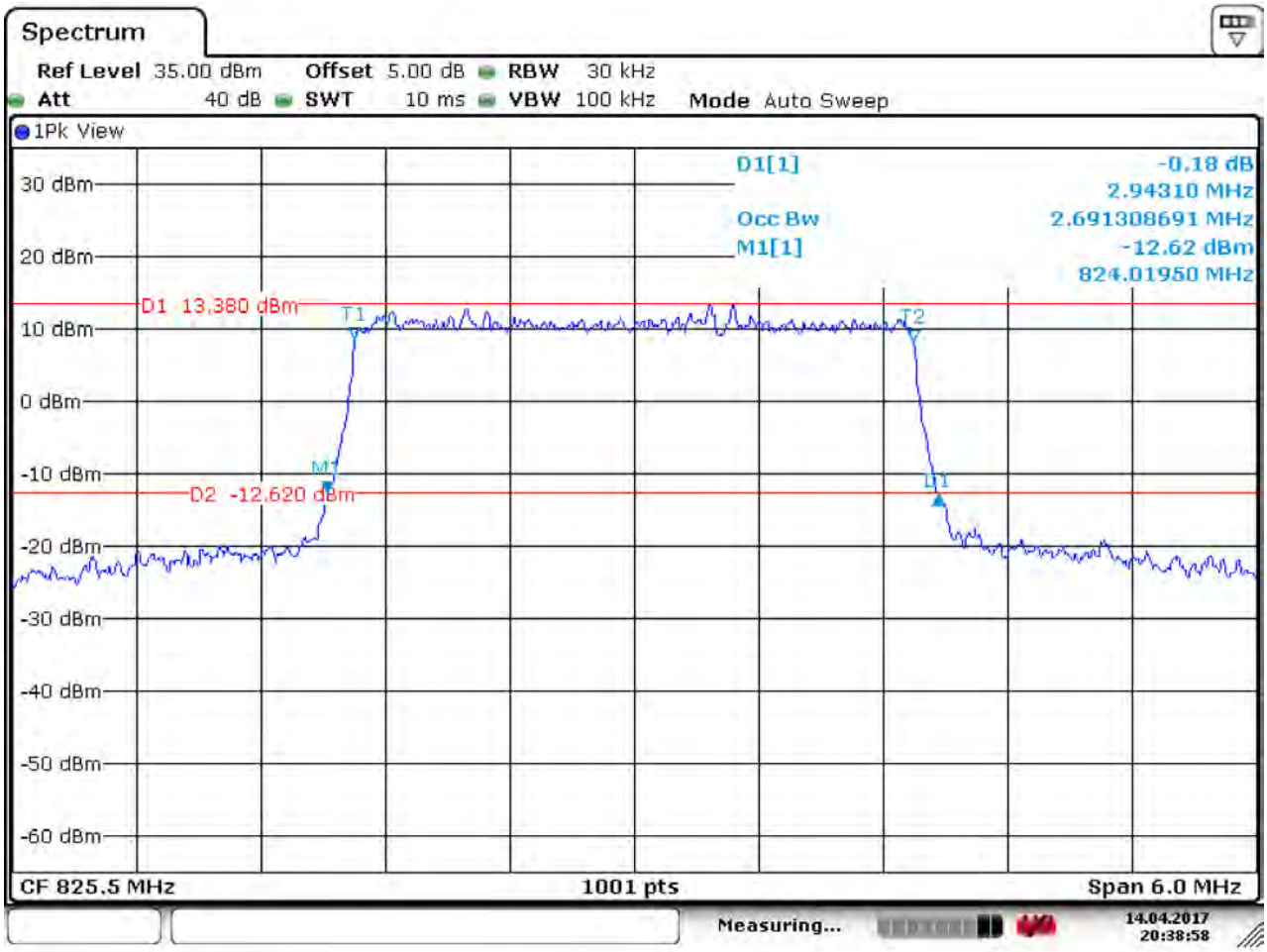
4.1.1.3.3 Test Channel = HCH



Date: 14.APR.2017 20:25:08

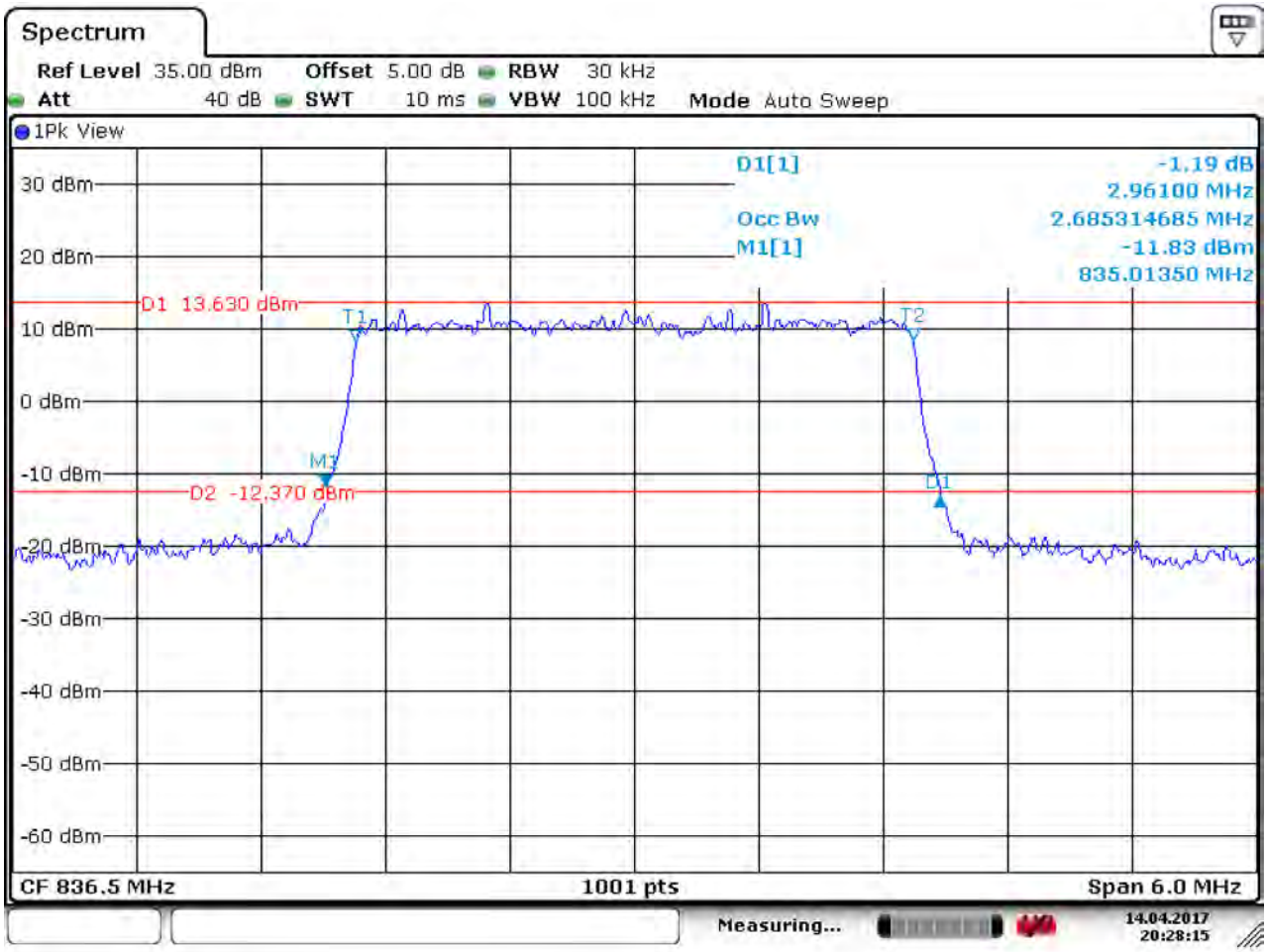
4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH



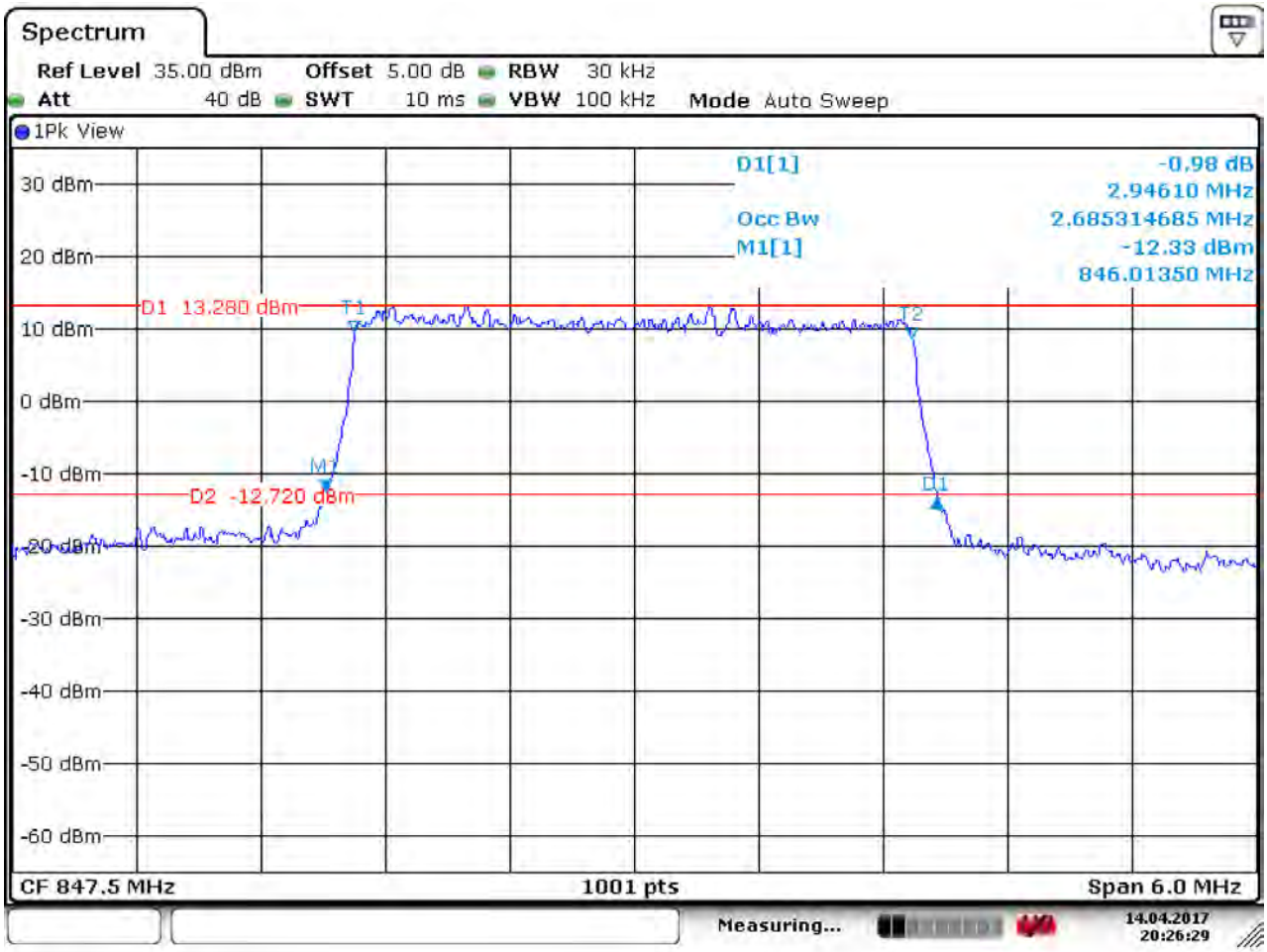
Date: 14.APR.2017 20:38:58

4.1.1.4.2 Test Channel = MCH



Date: 14.APR.2017 20:28:15

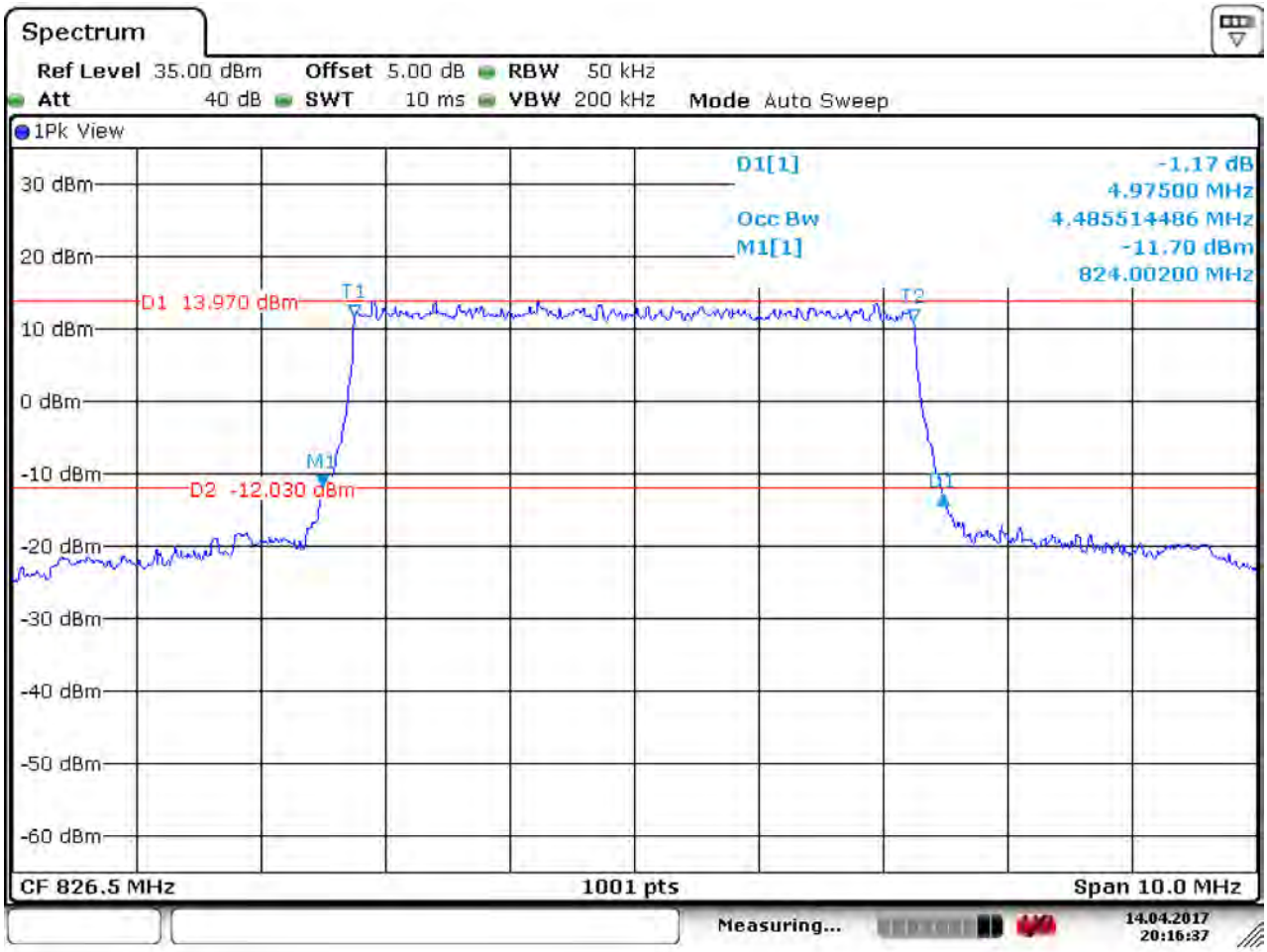
4.1.1.4.3 Test Channel = HCH



Date: 14.APR.2017 20:26:30

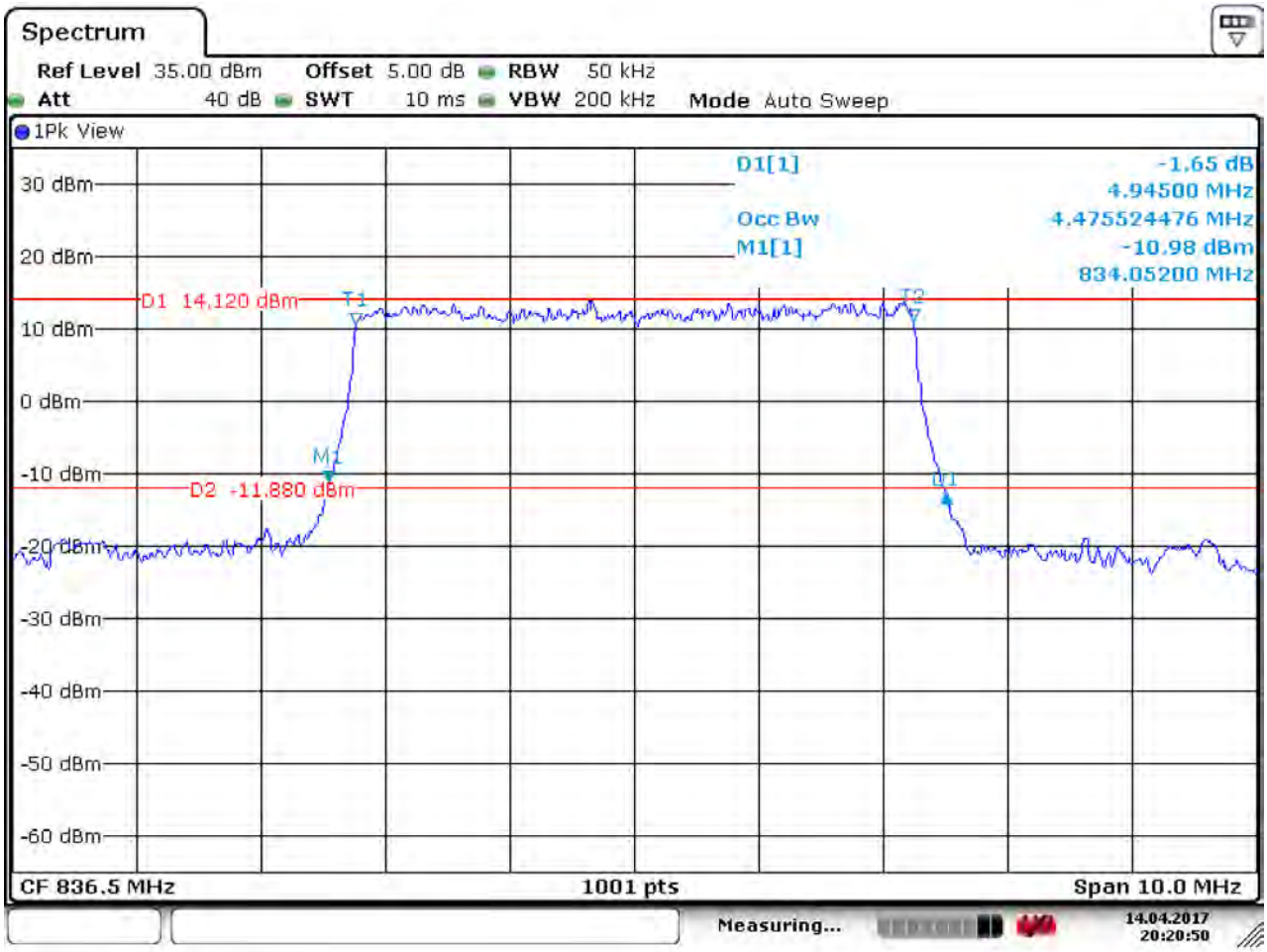
4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH



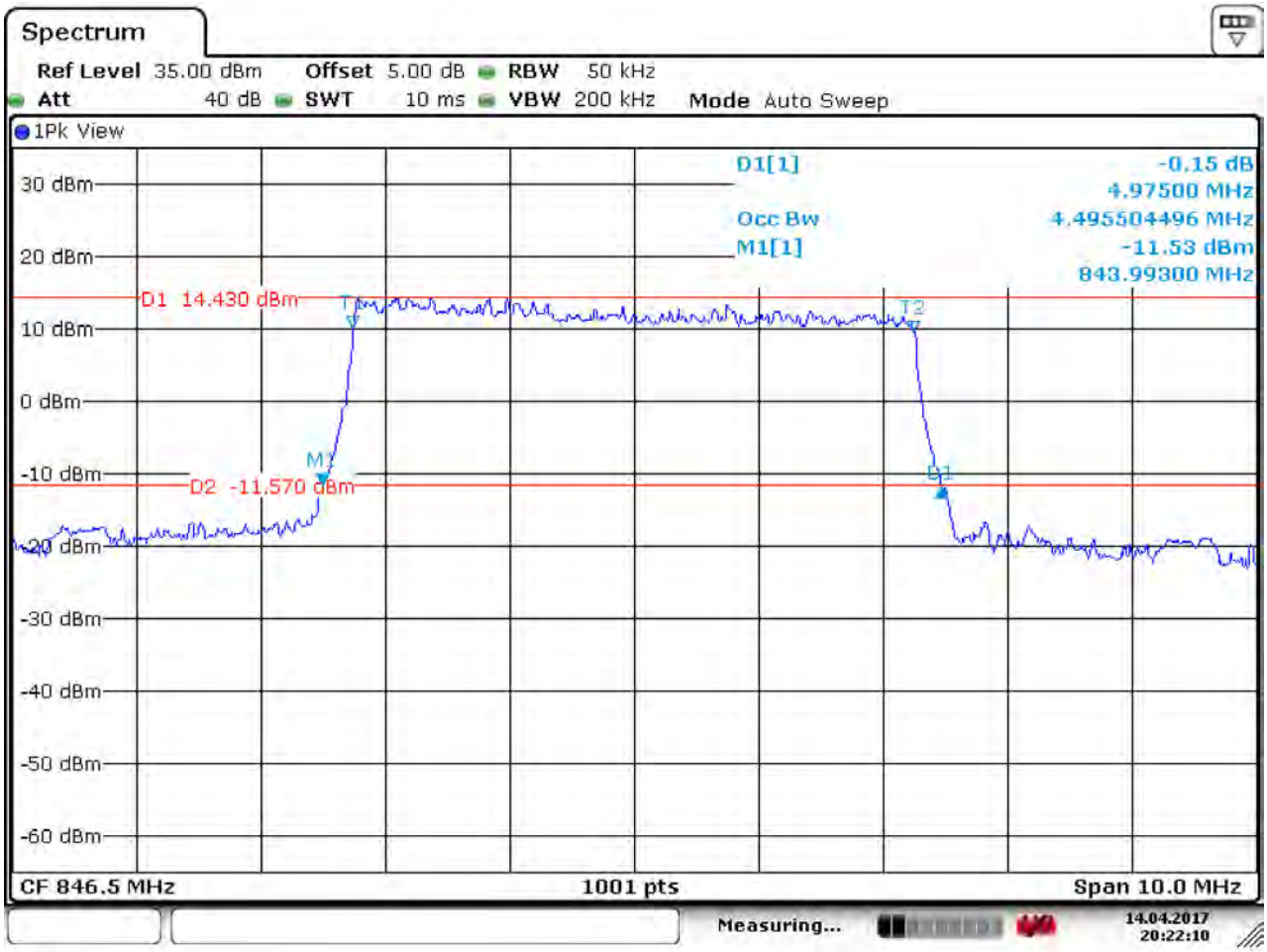
Date: 14.APR.2017 20:16:38

4.1.1.5.2 Test Channel = MCH



Date: 14.APR.2017 20:20:50

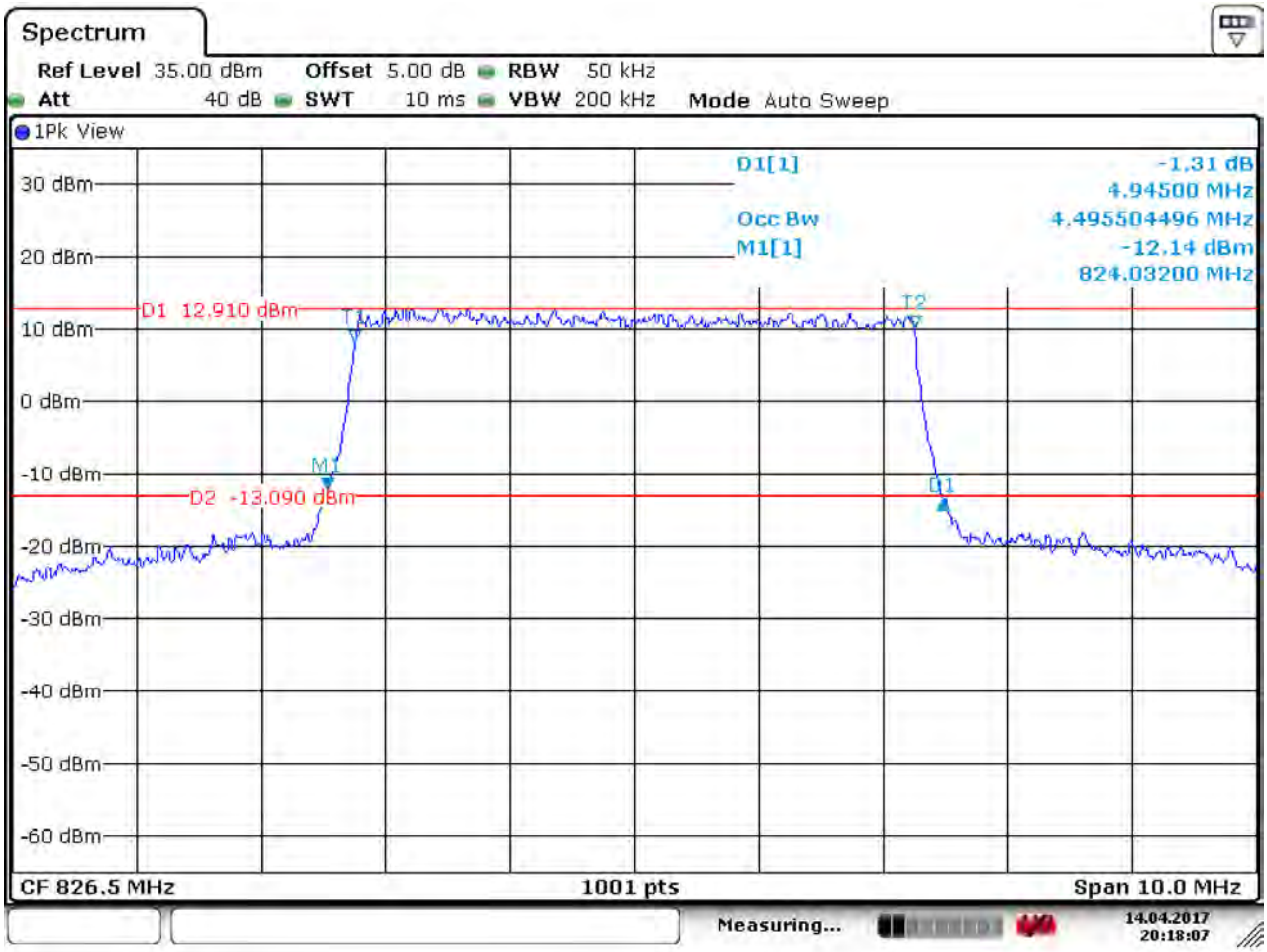
4.1.1.5.3 Test Channel = HCH



Date: 14.APR.2017 20:22:10

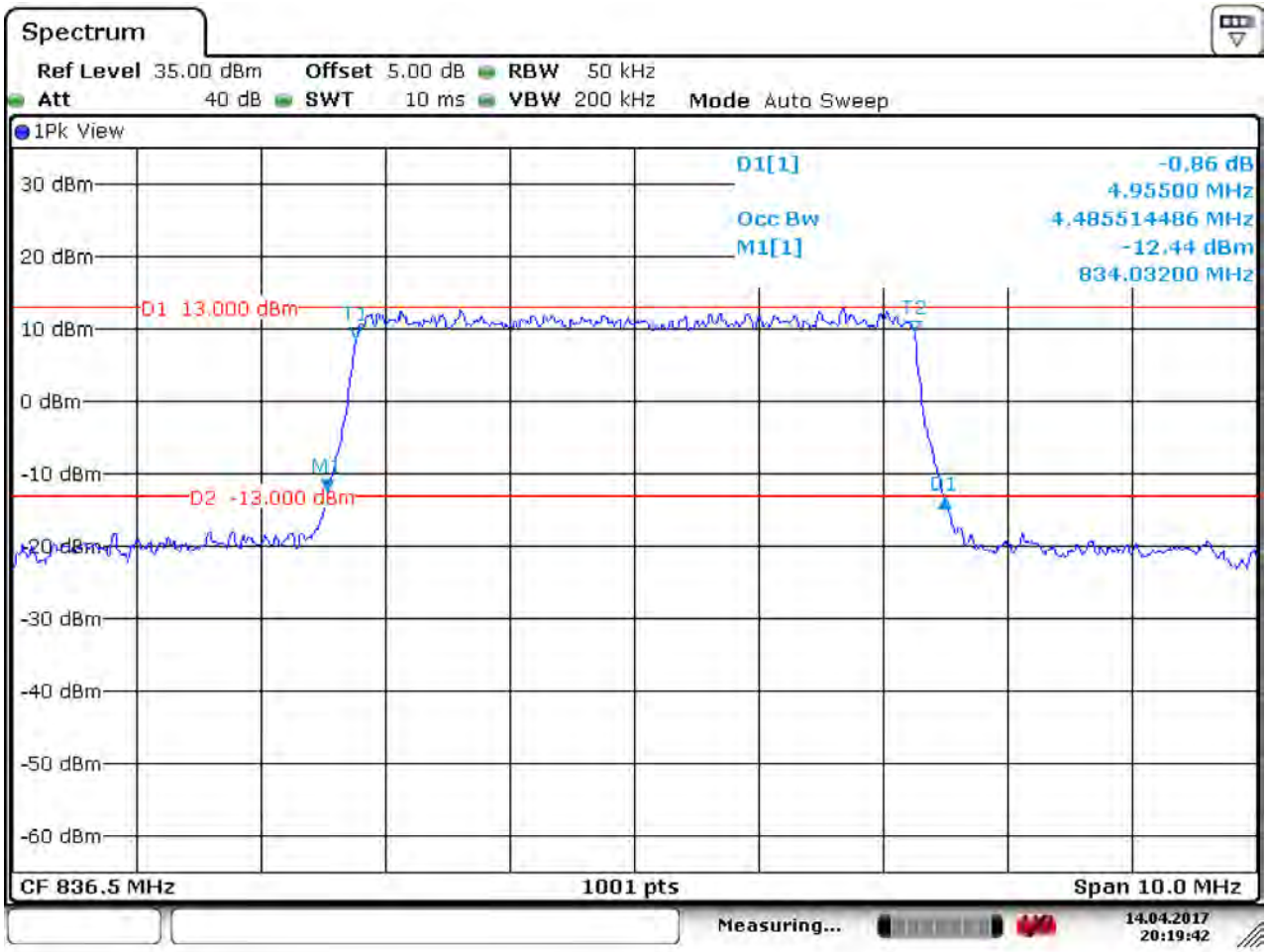
4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH



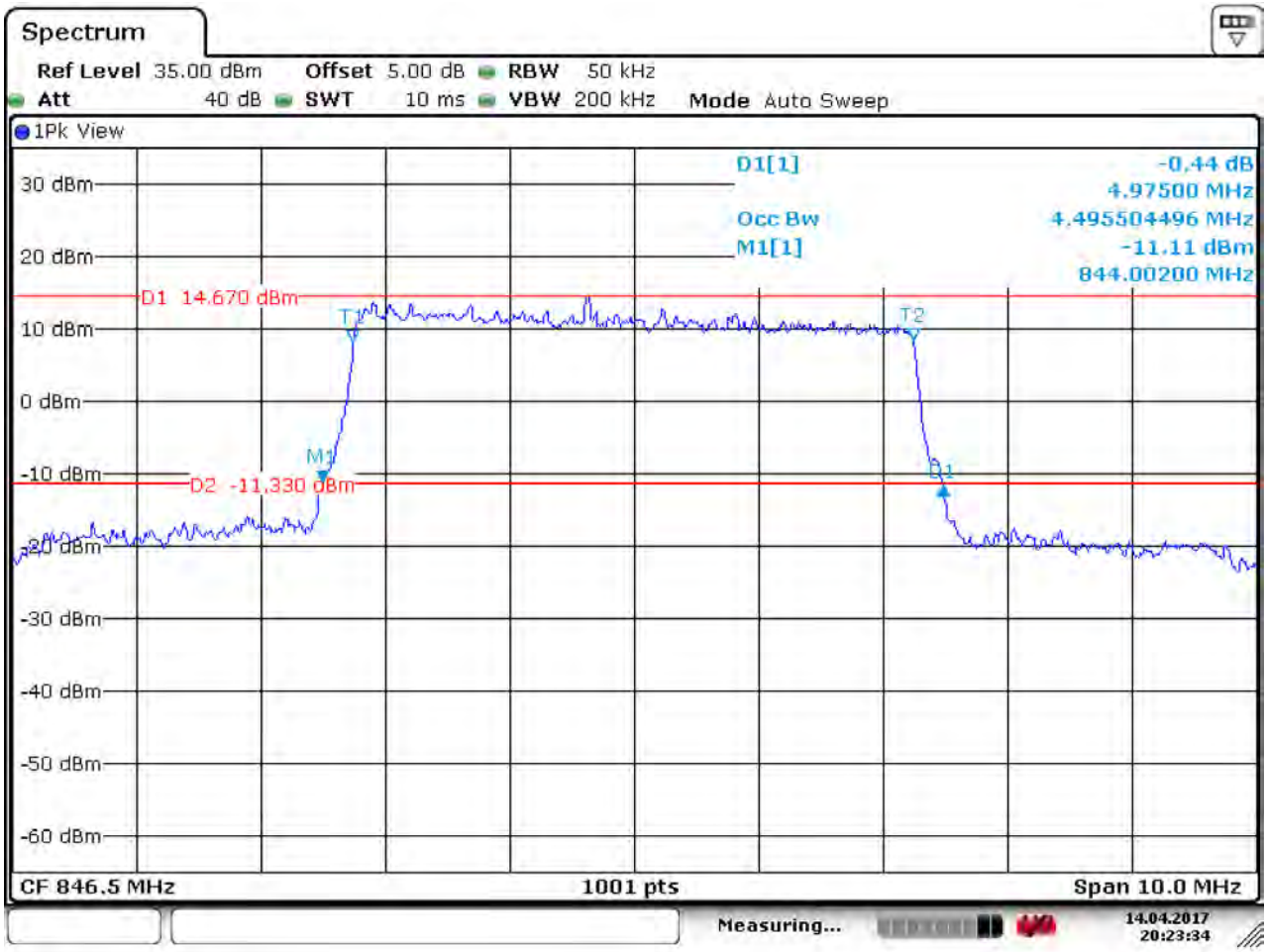
Date: 14.APR.2017 20:18:07

4.1.1.6.2 Test Channel = MCH



Date: 14.APR.2017 20:19:42

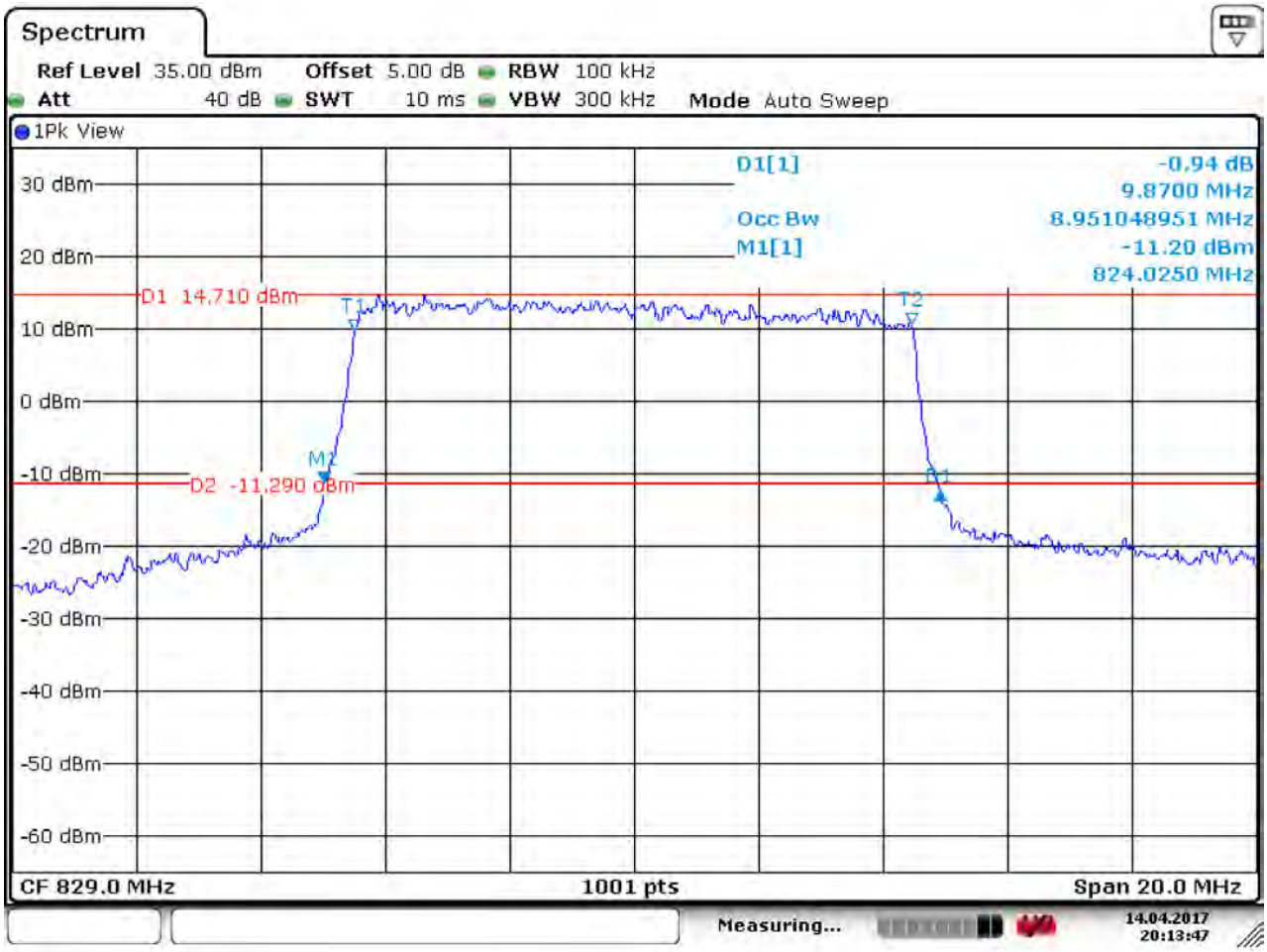
4.1.1.6.3 Test Channel = HCH



Date: 14.APR.2017 20:23:34

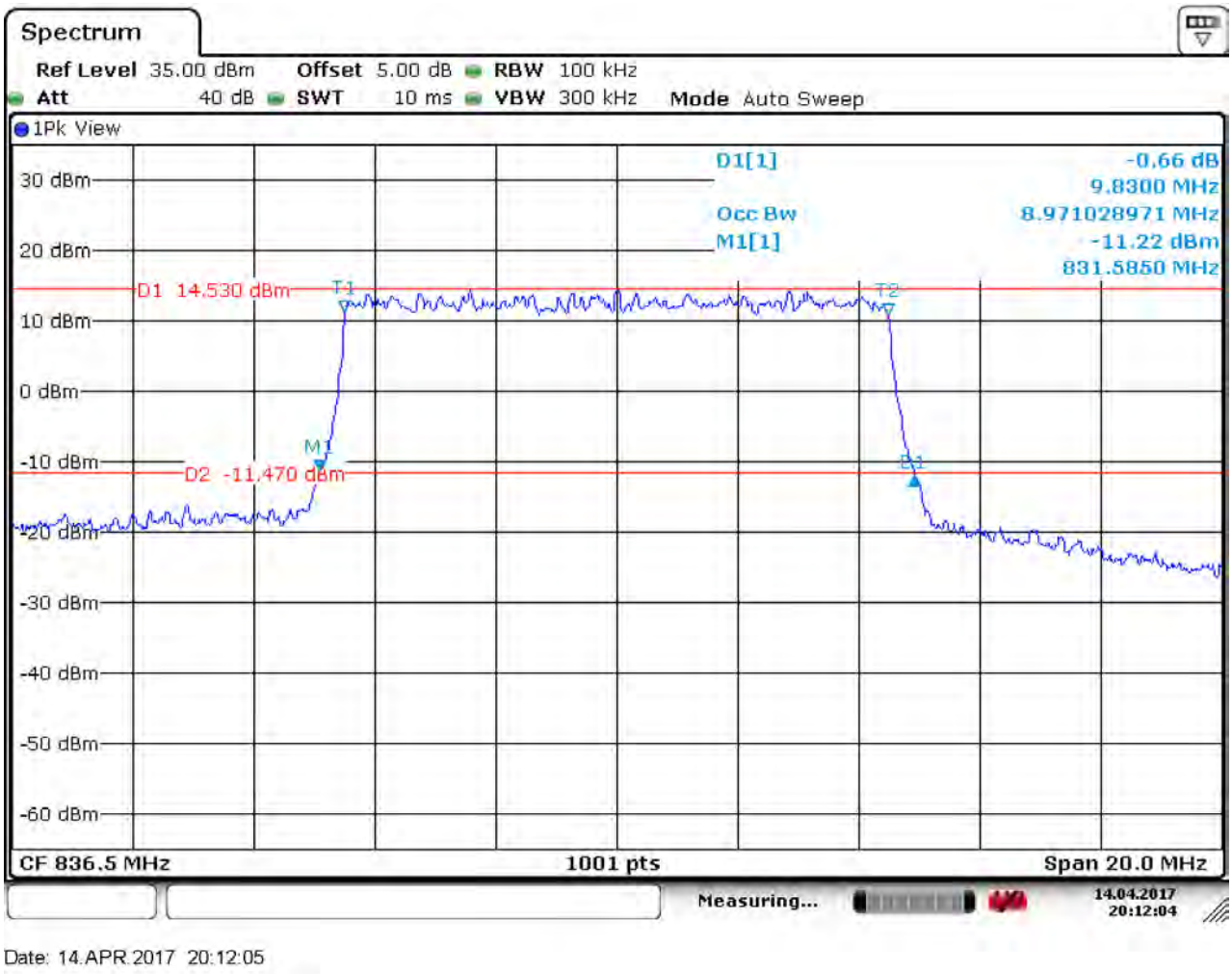
4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH



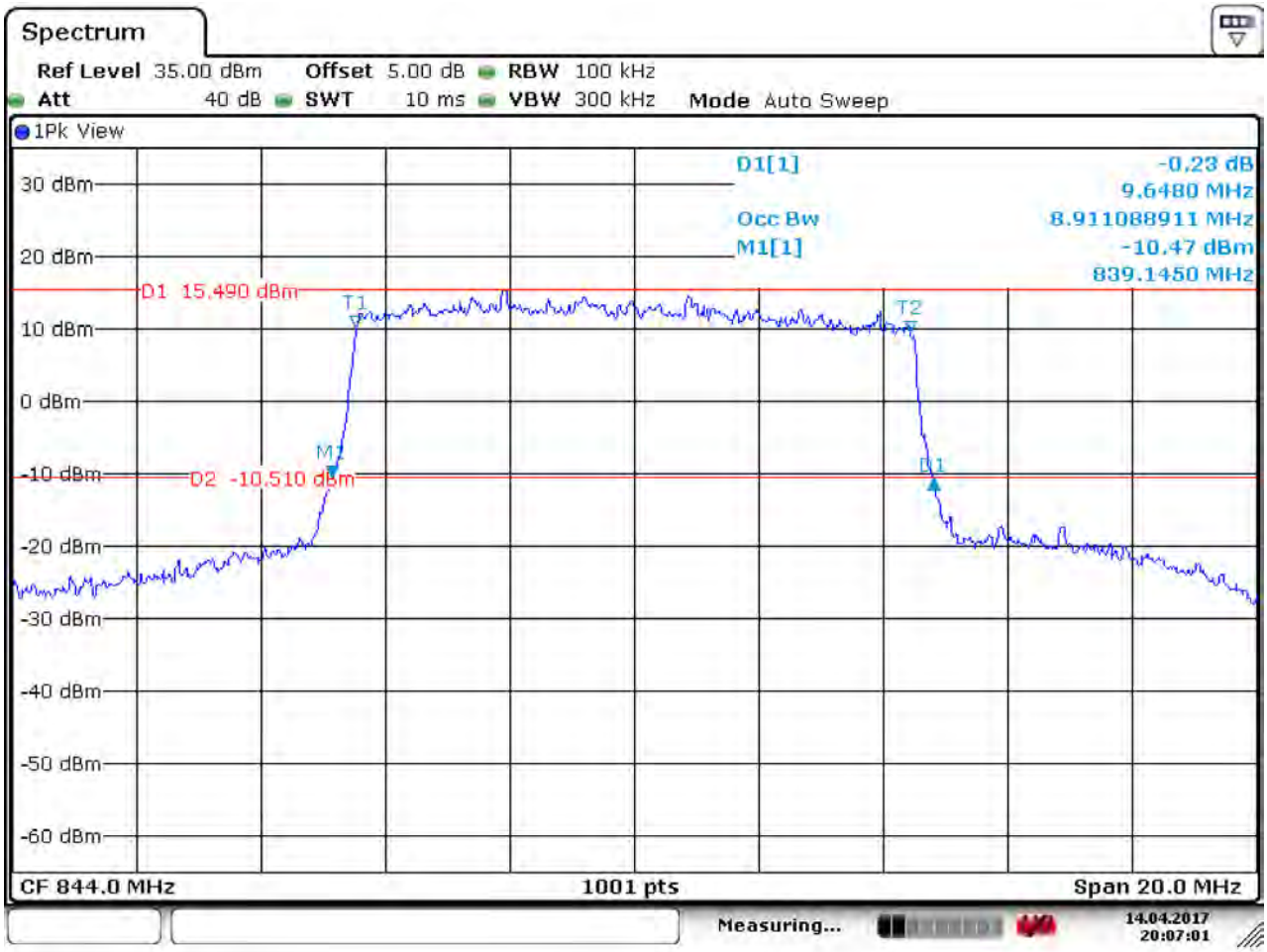
Date: 14.APR.2017 20:13:47

4.1.1.7.2 Test Channel = MCH



Date: 14.APR.2017 20:12:05

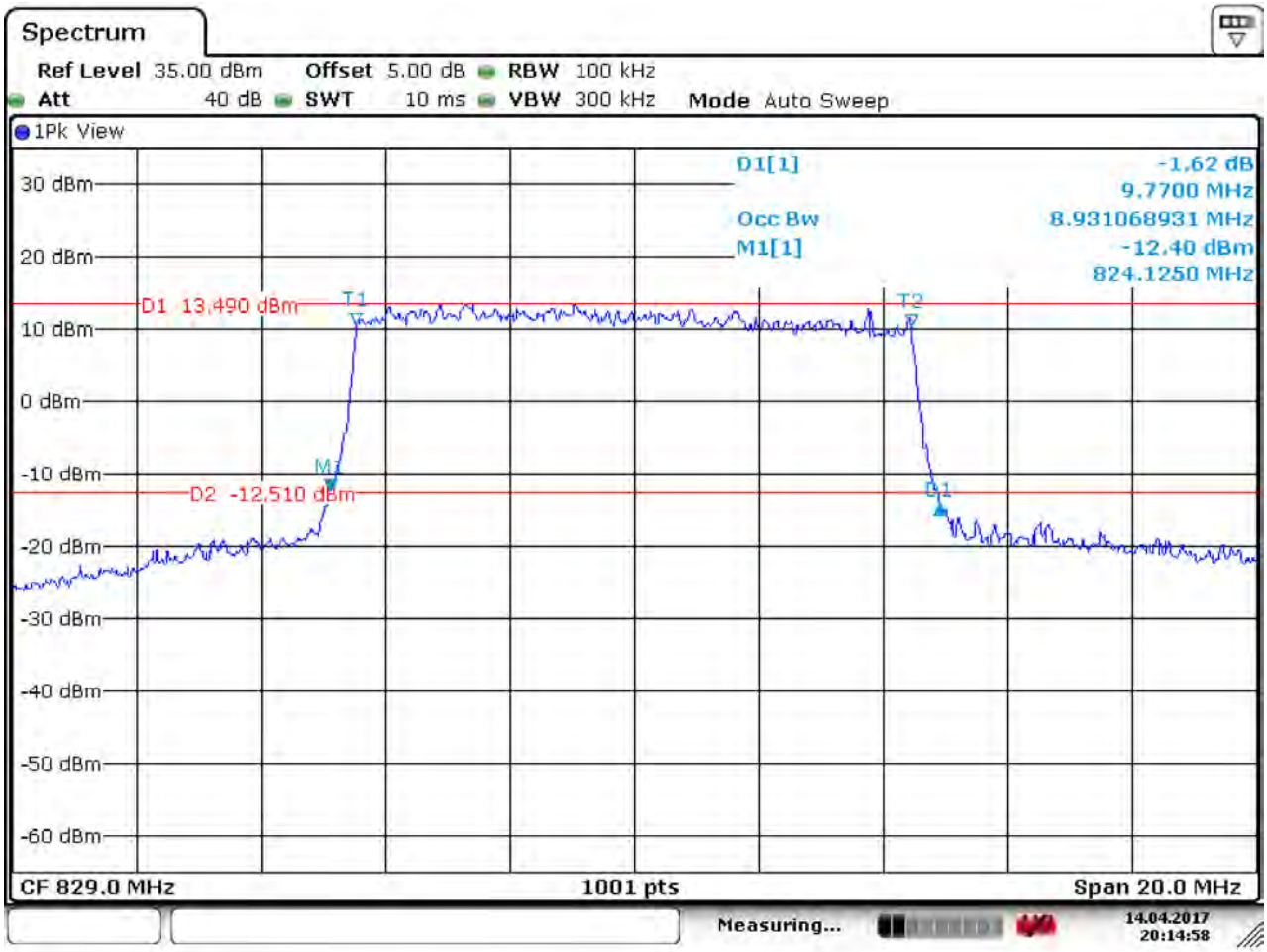
4.1.1.7.3 Test Channel = HCH



Date: 14.APR.2017 20:07:02

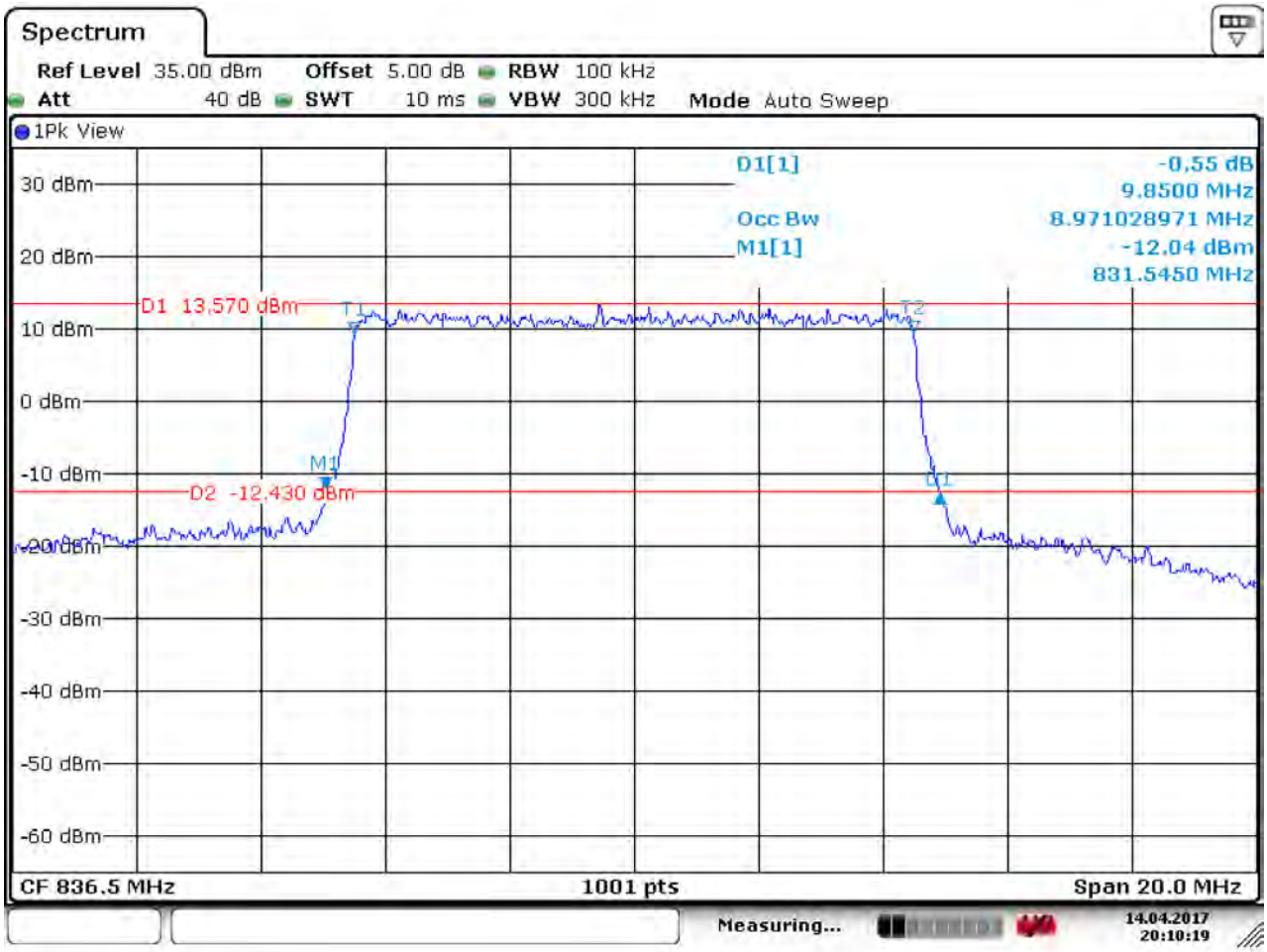
4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = LCH



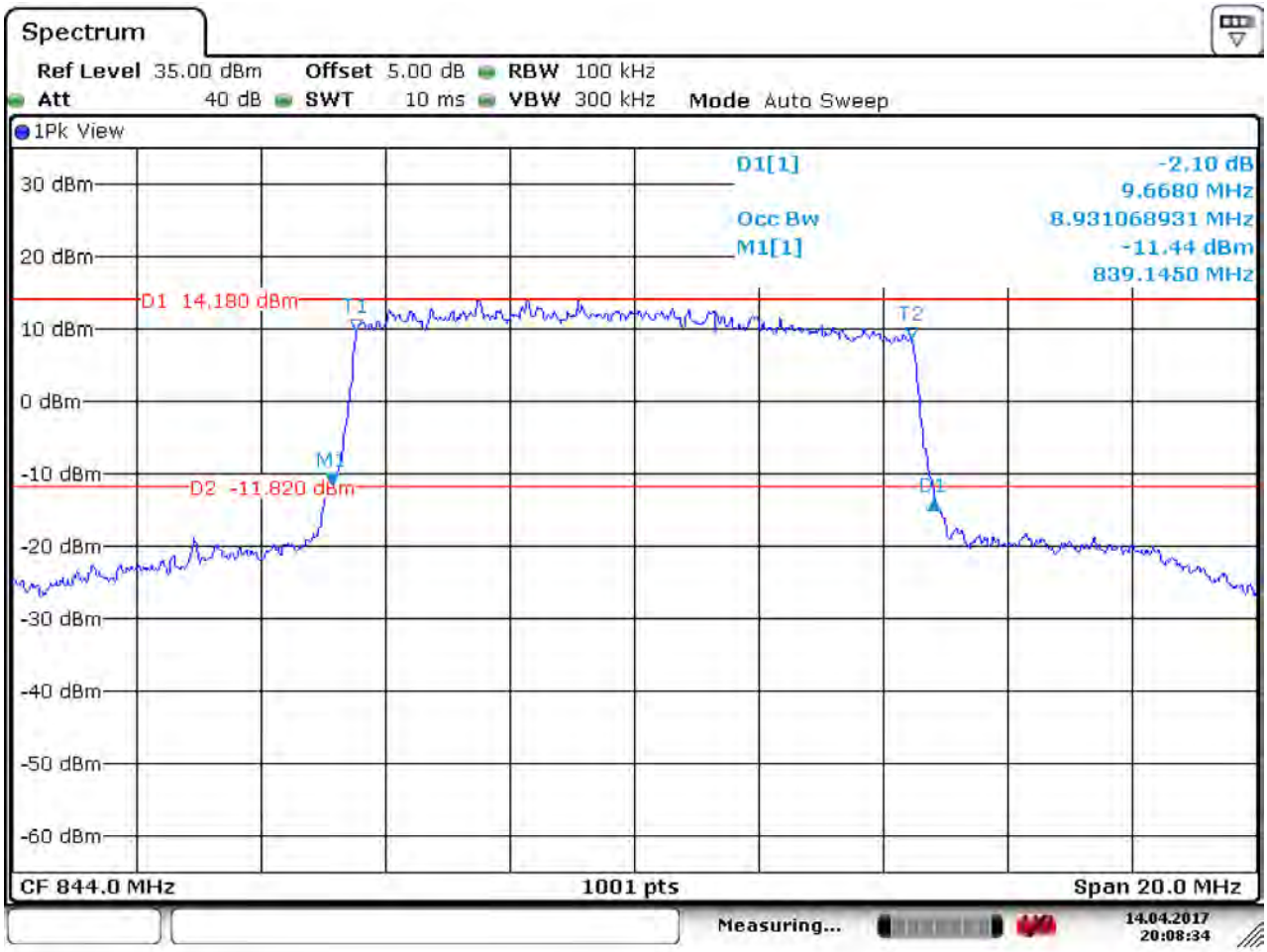
Date: 14.APR.2017 20:14:58

4.1.1.8.2 Test Channel = MCH



Date: 14.APR.2017 20:10:19

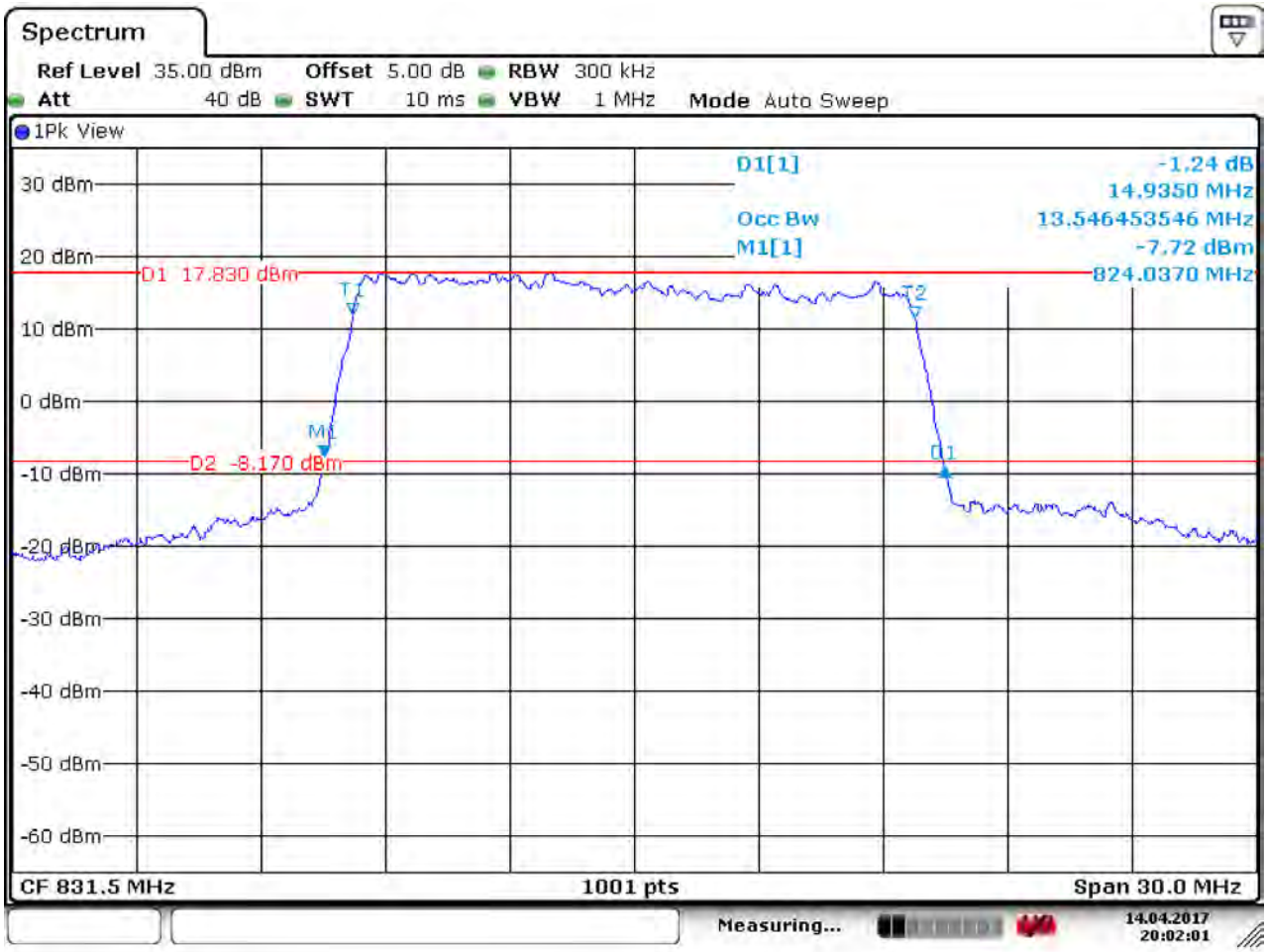
4.1.1.8.3 Test Channel = HCH



Date: 14.APR.2017 20:08:35

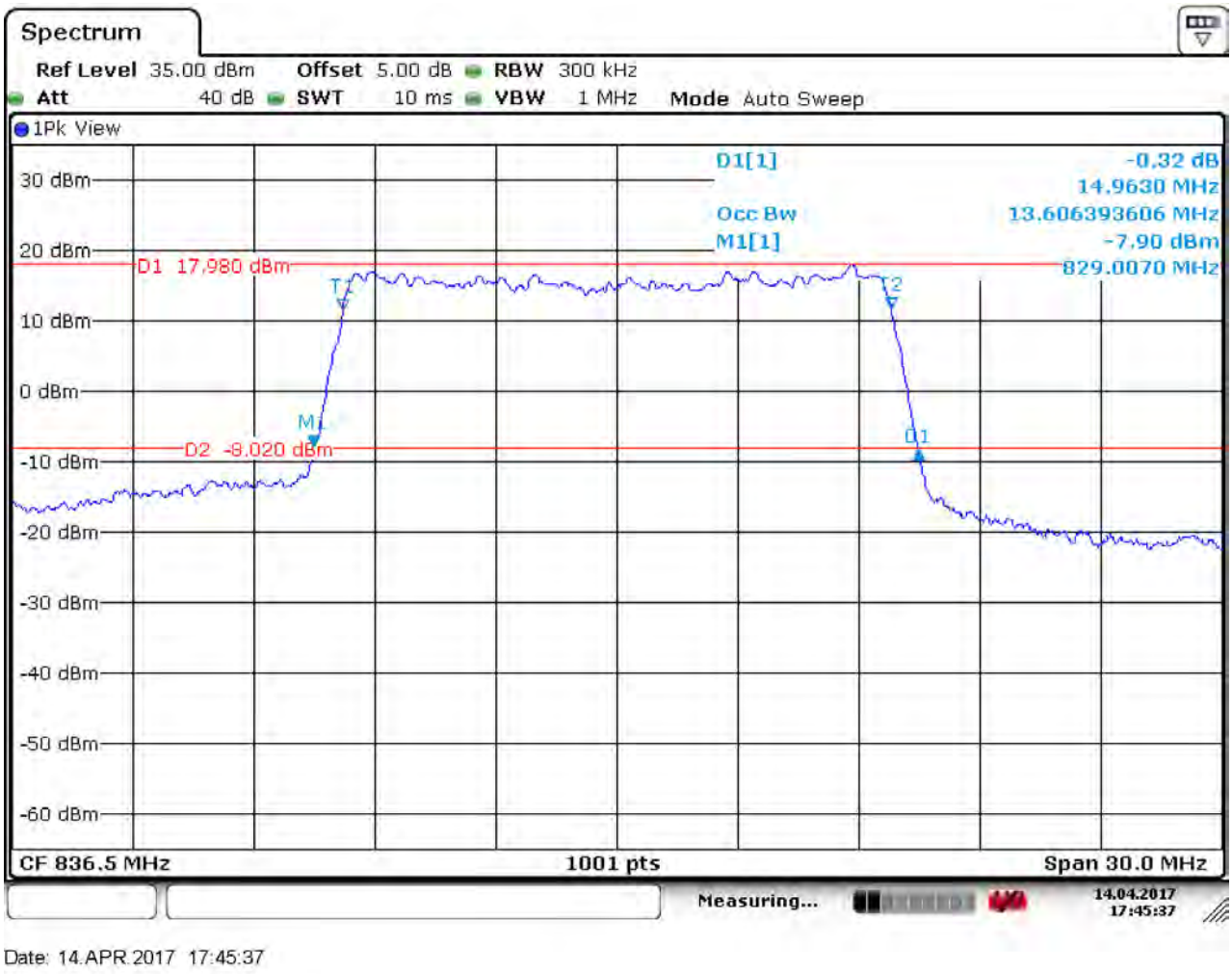
4.1.1.9 Test Mode = LTE/TM1 15MHz

4.1.1.9.1 Test Channel = LCH



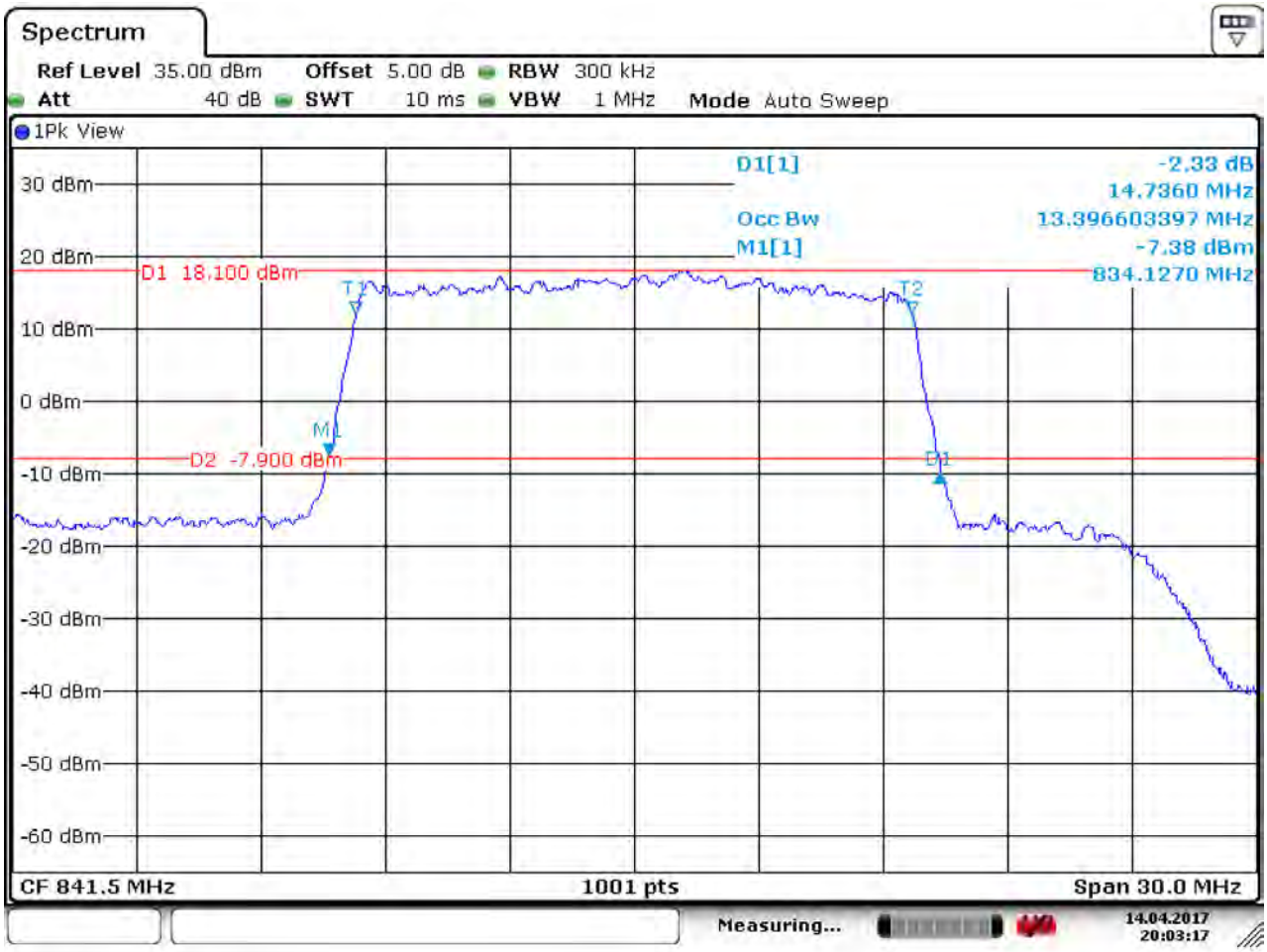
Date: 14.APR.2017 20:02:01

4.1.1.9.2 Test Channel = MCH



Date: 14.APR.2017 17:45:37

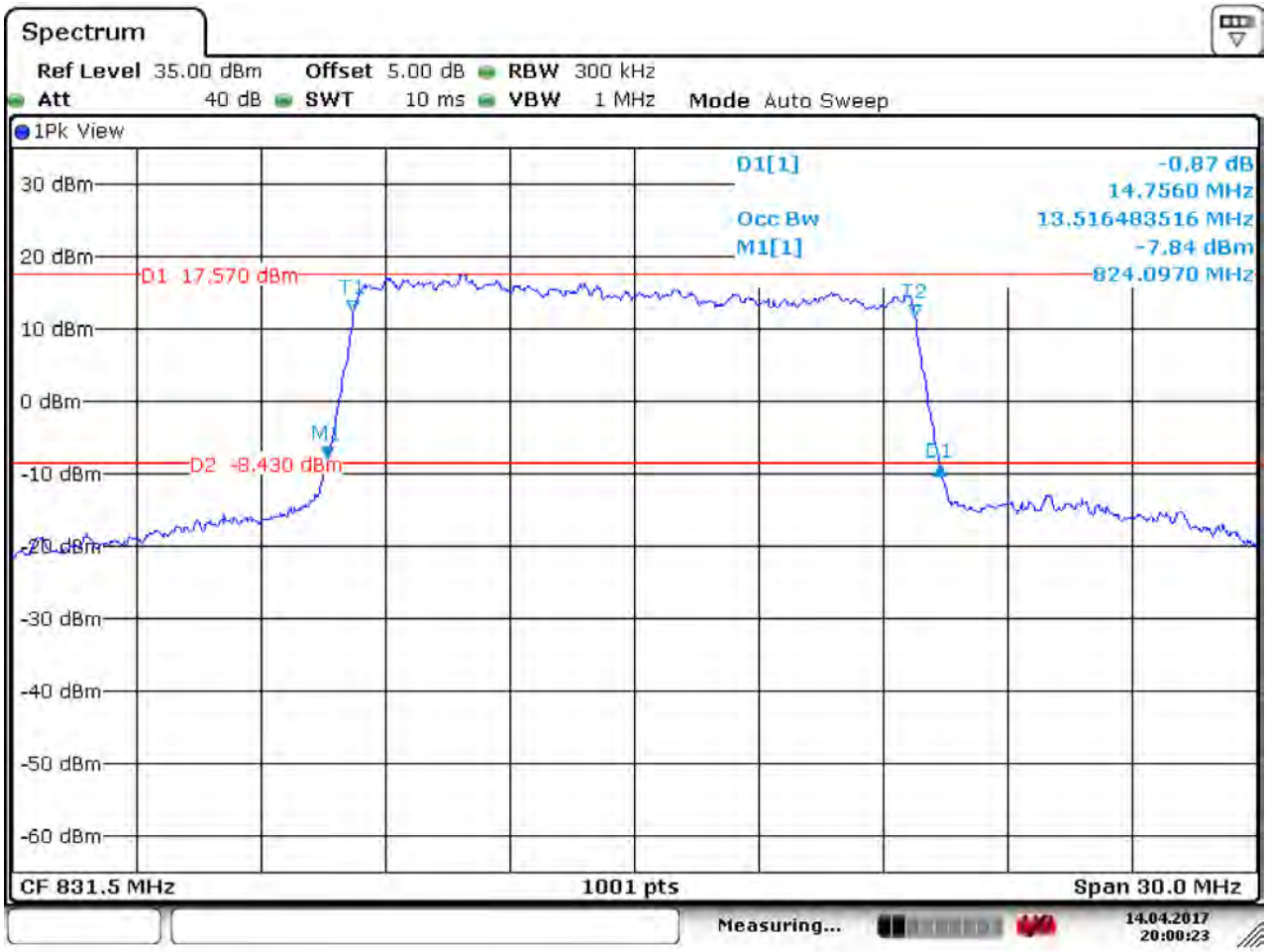
4.1.1.9.3 Test Channel = HCH



Date: 14.APR.2017 20:03:18

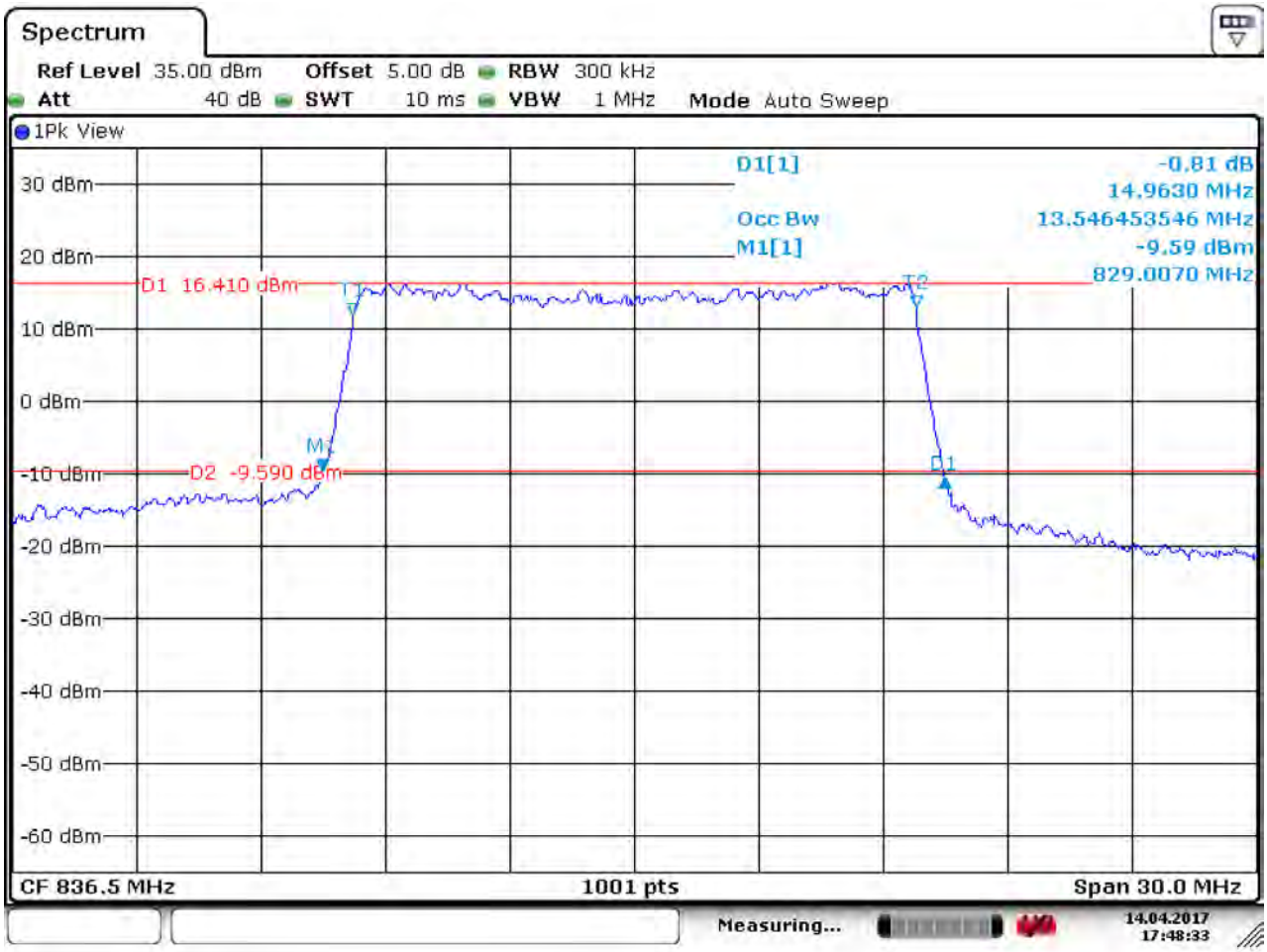
4.1.1.10 Test Mode = LTE/TM2 15MHz

4.1.1.10.1 Test Channel = LCH



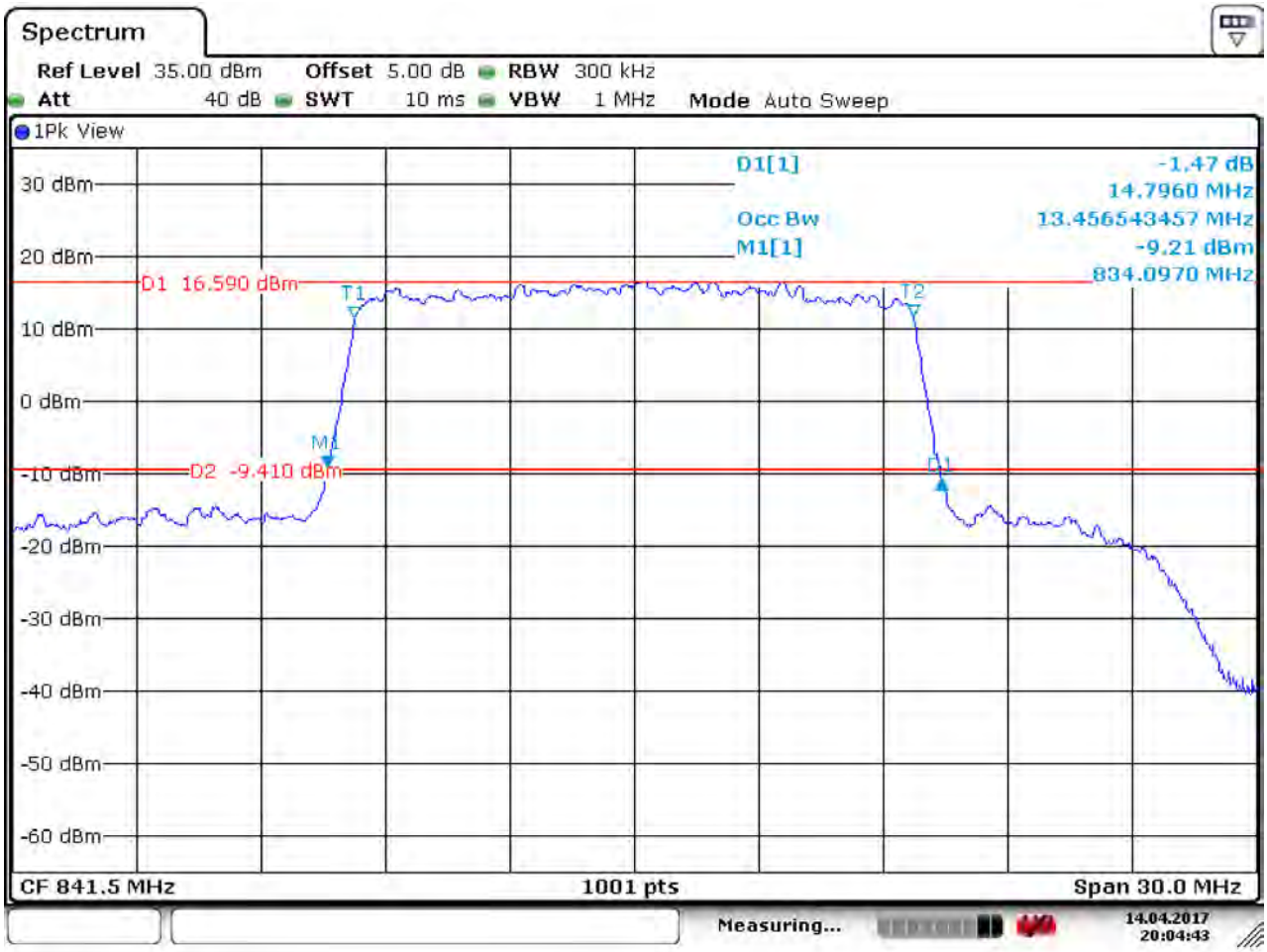
Date: 14.APR.2017 20:00:23

4.1.1.10.2 Test Channel = MCH



Date: 14.APR.2017 17:48:34

4.1.1.10.3 Test Channel = HCH



Date: 14.APR.2017 20:04:44

5 Band Edges Compliance

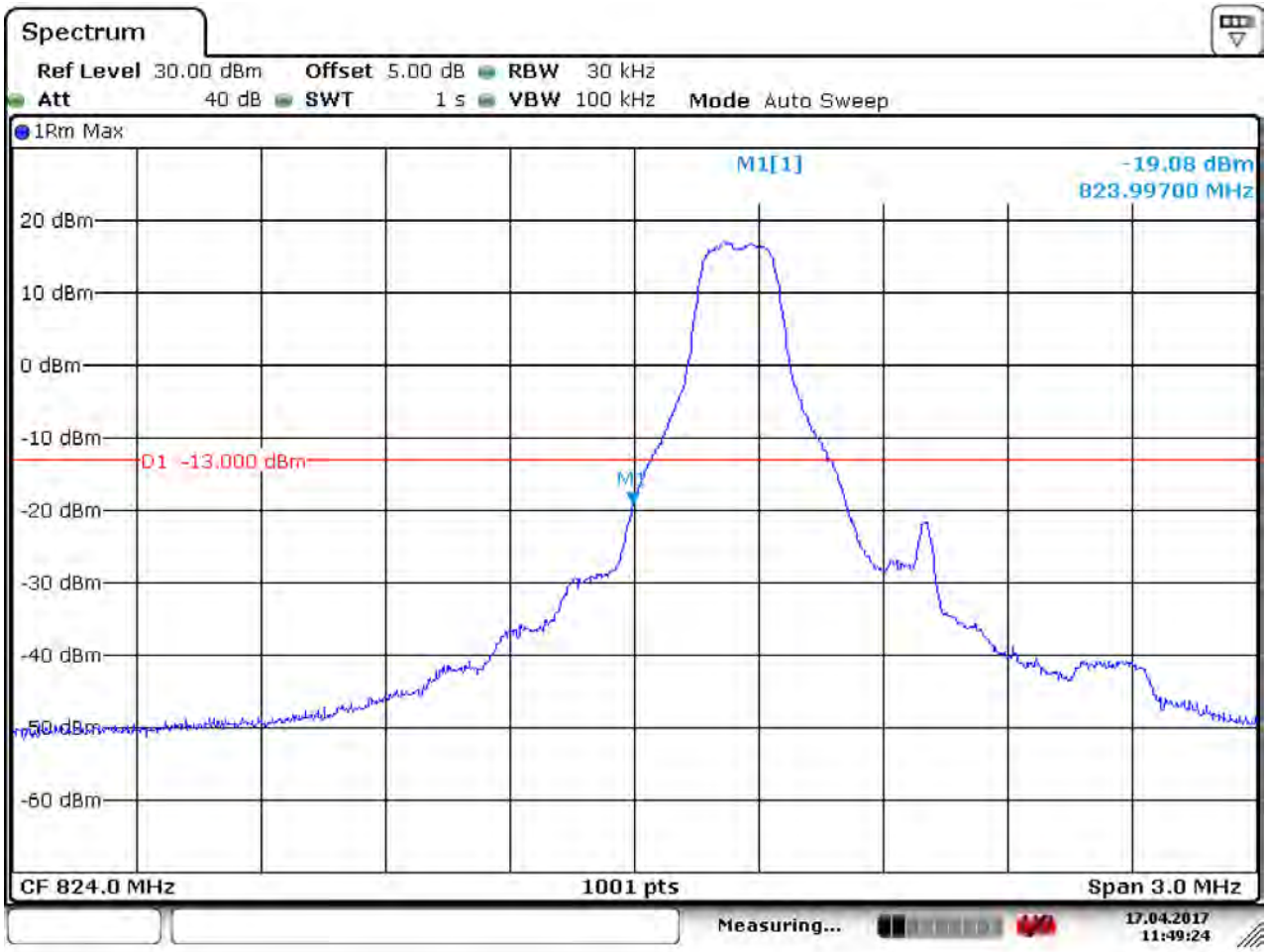
5.1 For LTE

5.1.1 Test Band = LTE band26(824-849)

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

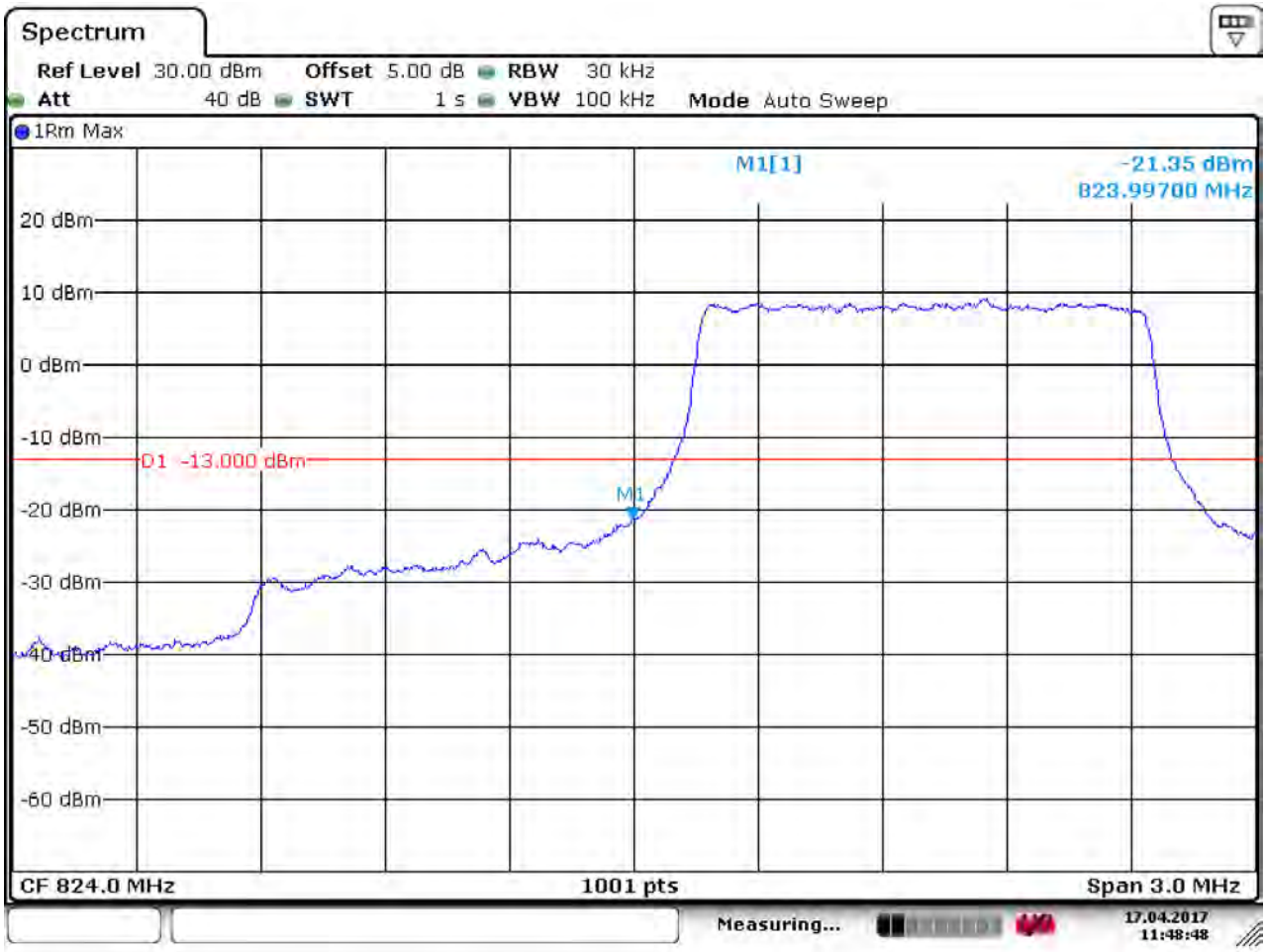
5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB



Date: 17.APR.2017 11:49:24

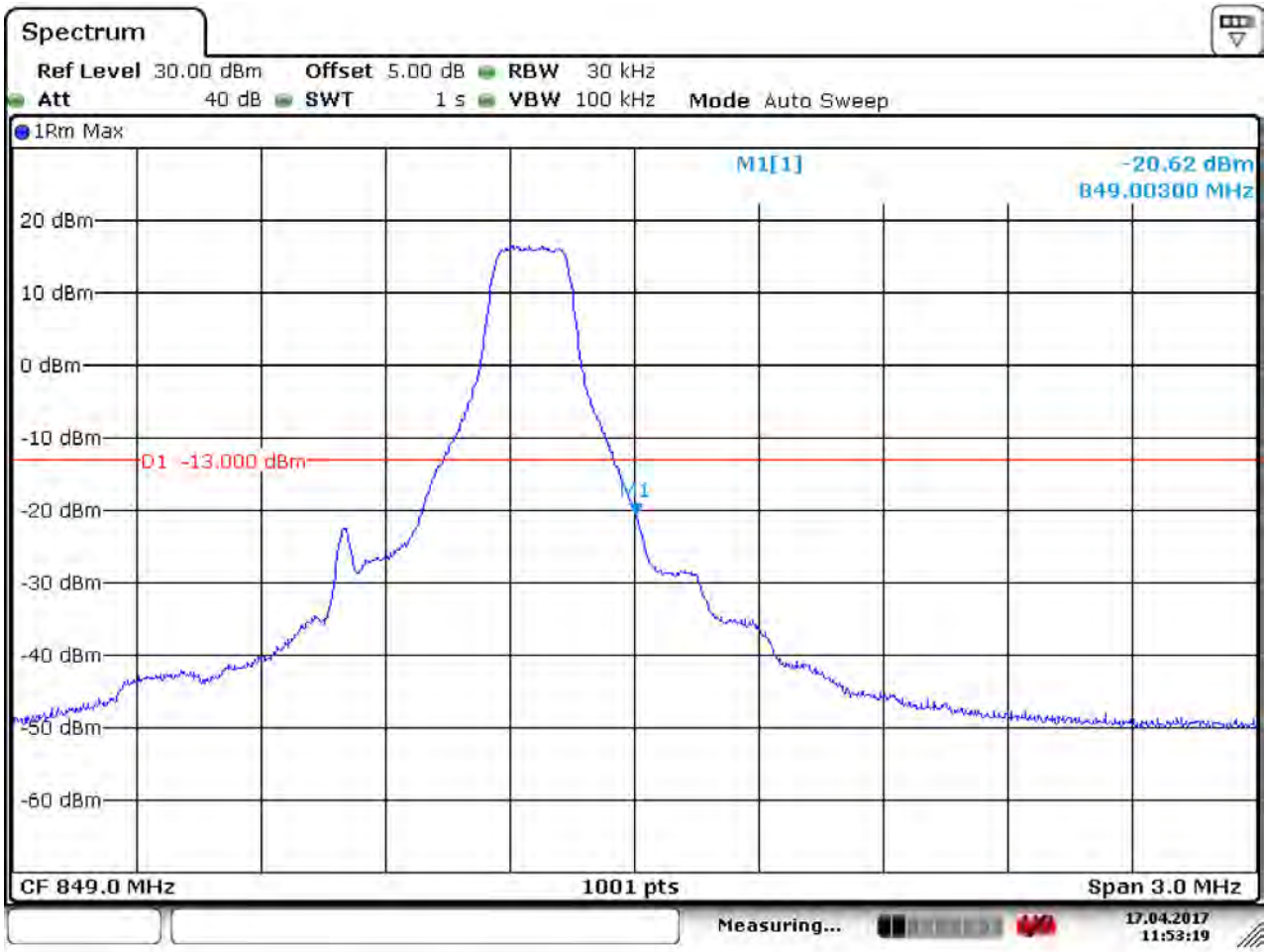
5.1.1.1.1.2 Test RB=6RB



Date: 17.APR.2017 11:48:48

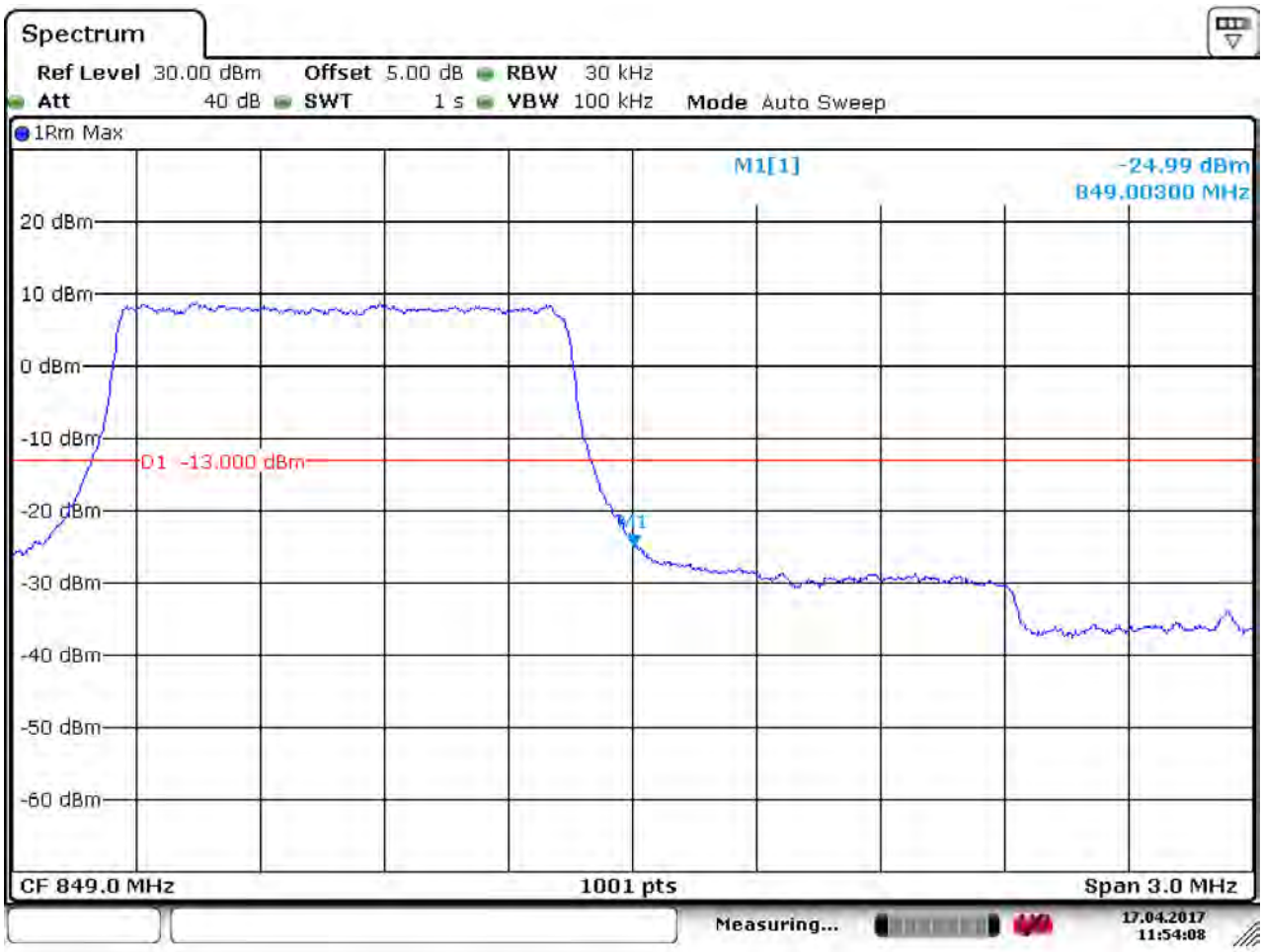
5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 17.APR.2017 11:53:20

5.1.1.1.2.2 Test RB=6RB

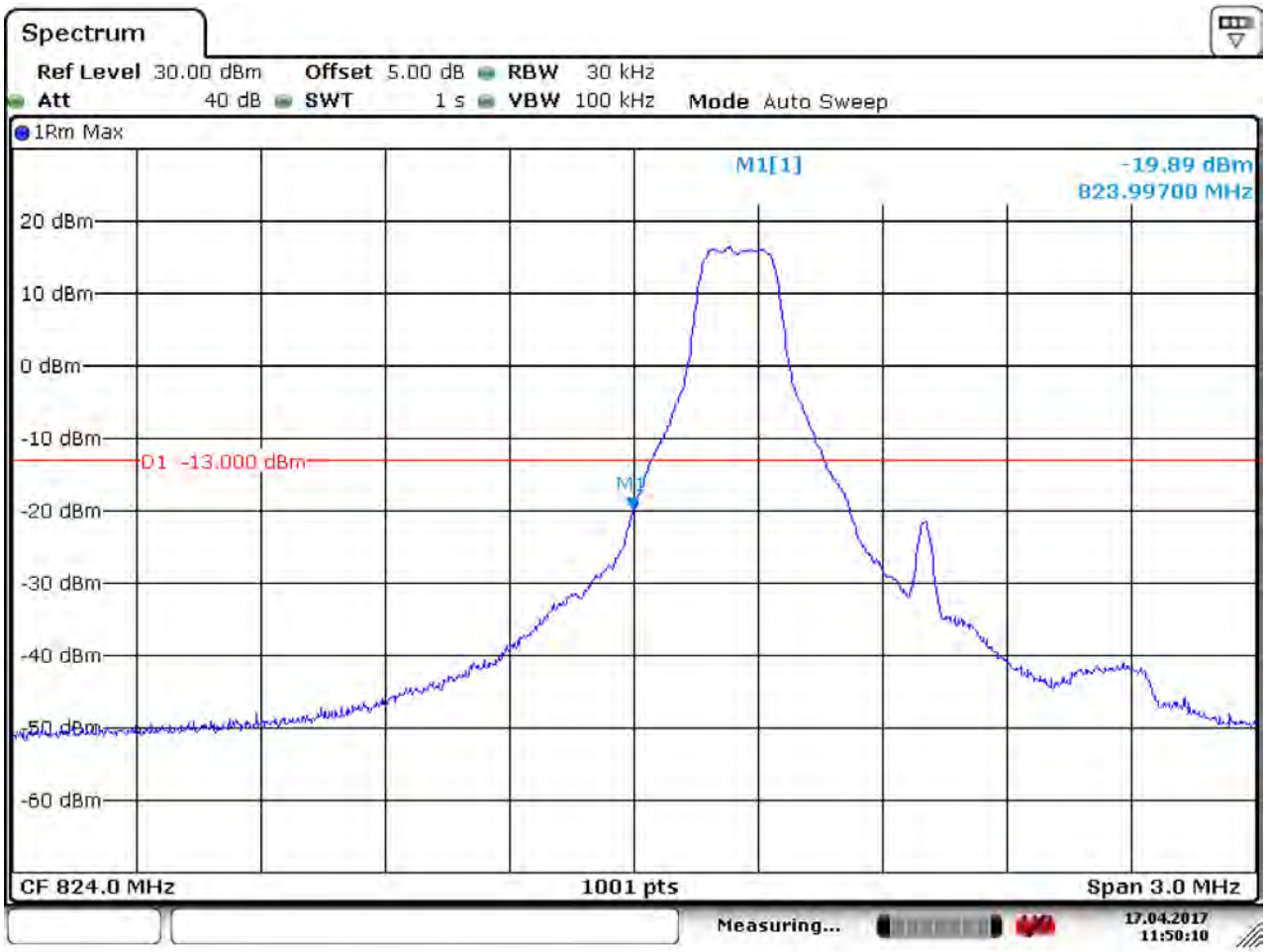


Date: 17.APR.2017 11:54:09

5.1.1.2 Test Mode = LTE/TM2 1.4MHz

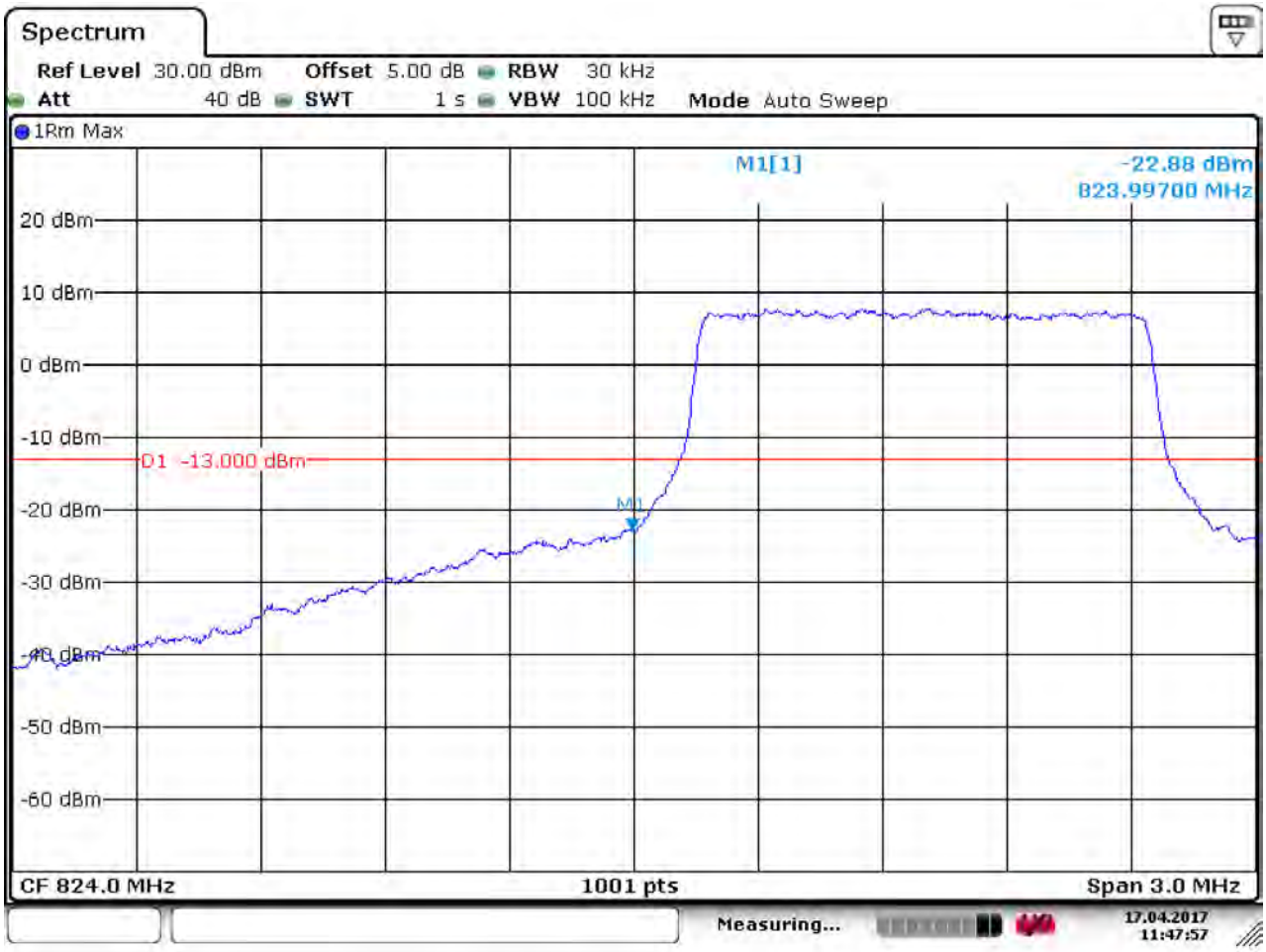
5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



Date: 17.APR.2017 11:50:10

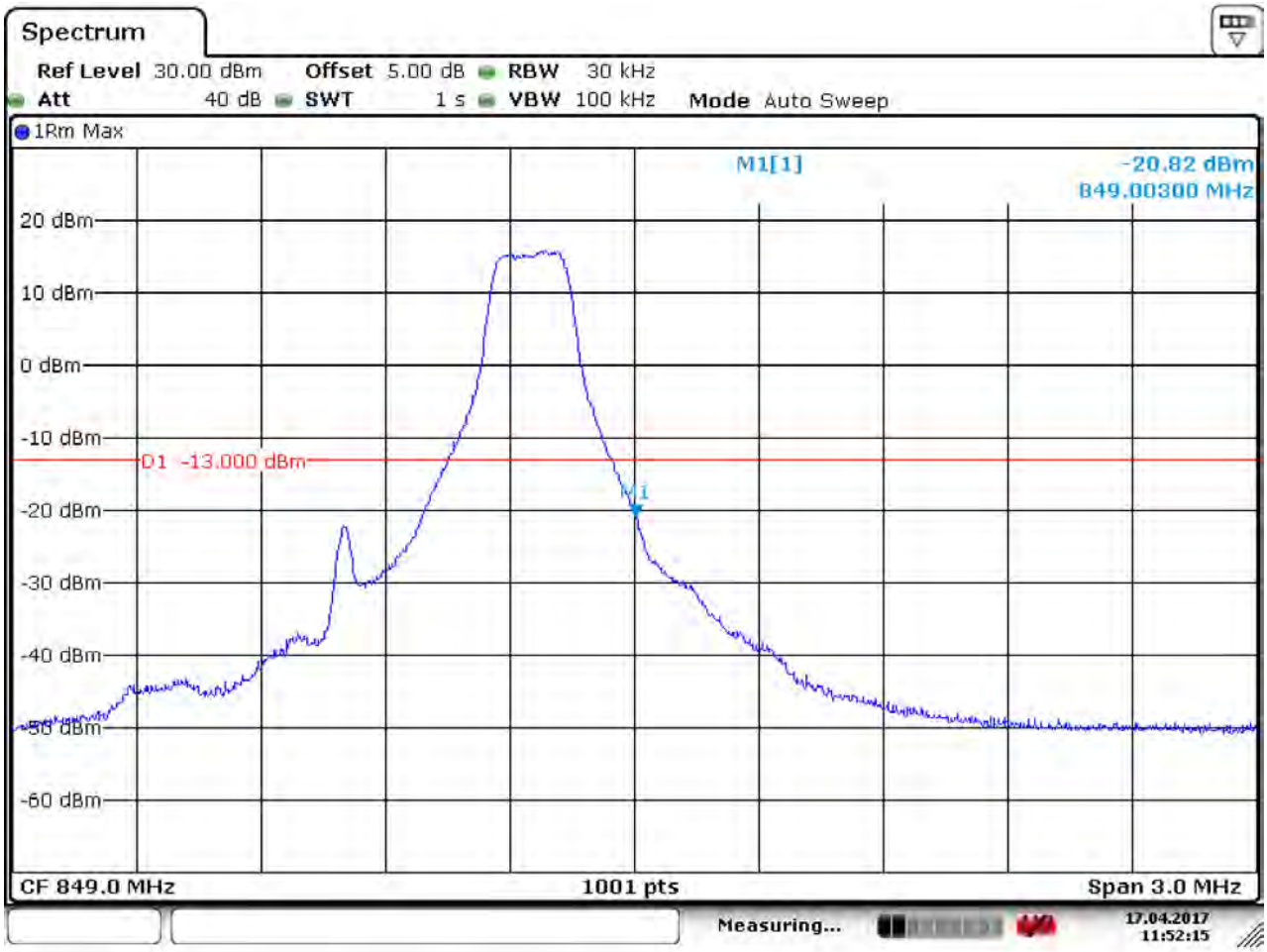
5.1.1.2.1.2 Test RB=6RB



Date: 17.APR.2017 11:47:57

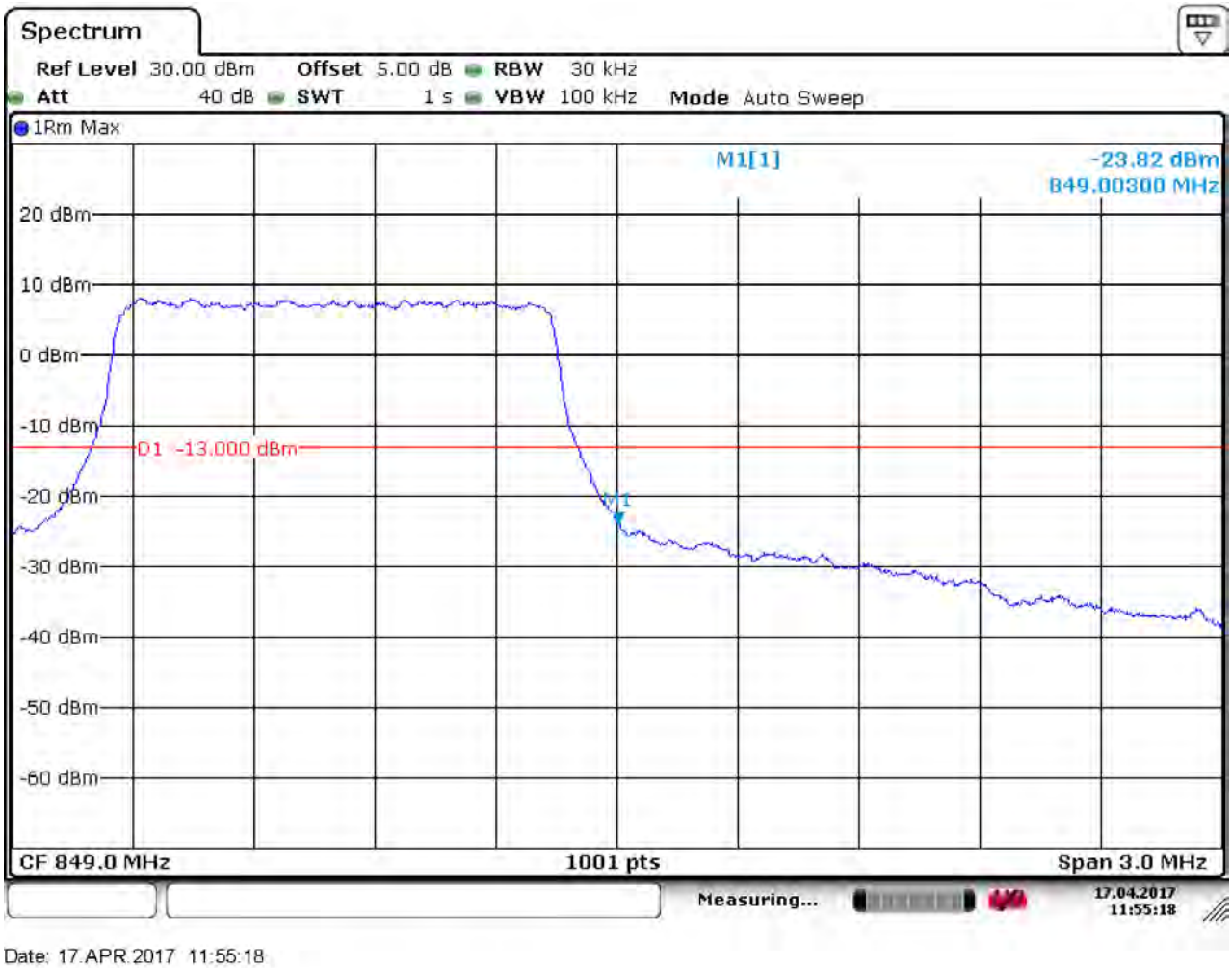
5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



Date: 17.APR.2017 11:52:15

5.1.1.2.2.2 Test RB=6RB

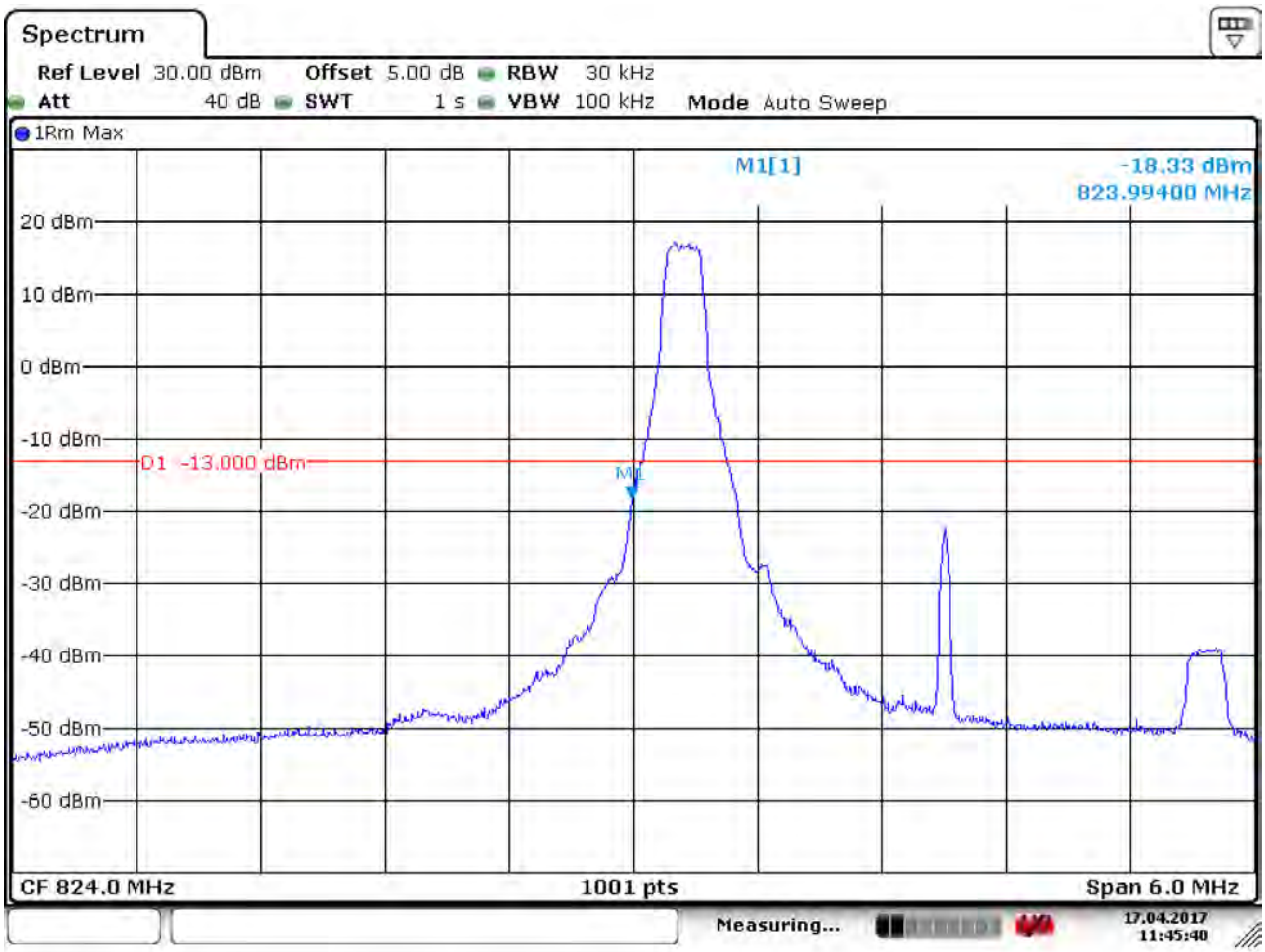


Date: 17.APR.2017 11:55:18

5.1.1.3 Test Mode = LTE/TM1 3MHz

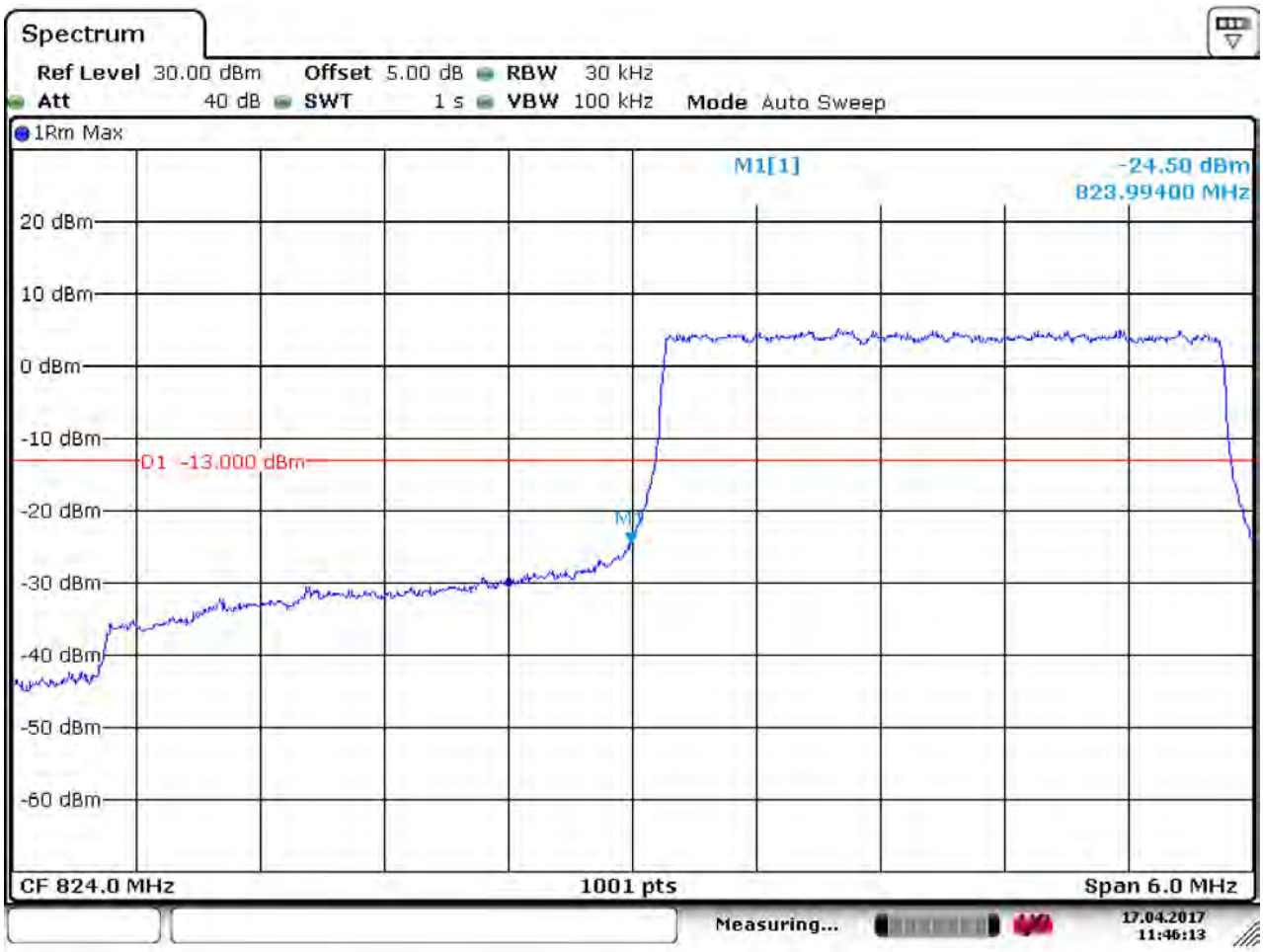
5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



Date: 17.APR.2017 11:45:40

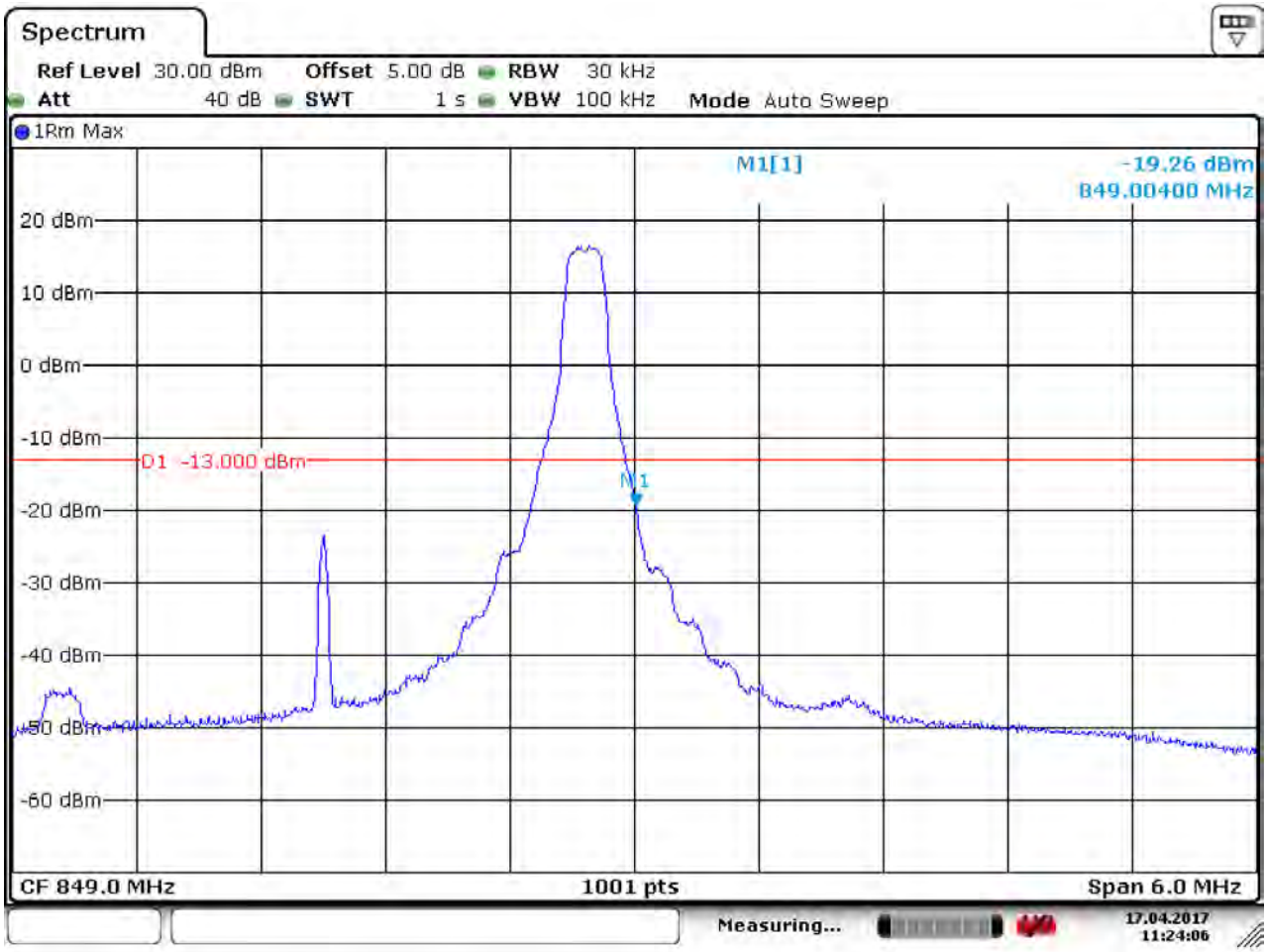
5.1.1.3.1.2 Test RB=15RB



Date: 17.APR.2017 11:46:13

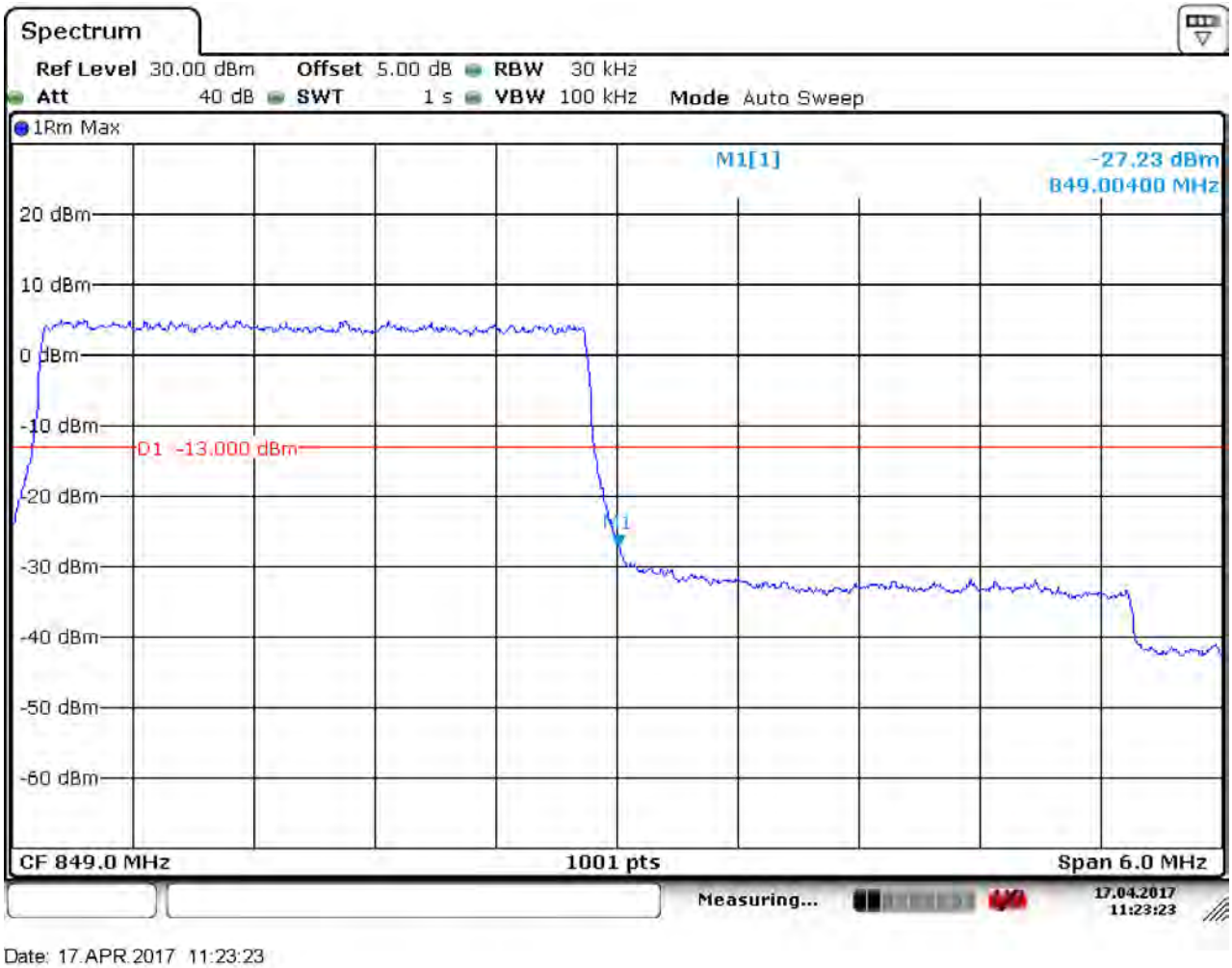
5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



Date: 17.APR.2017 11:24:07

5.1.1.3.2.2 Test RB=15RB

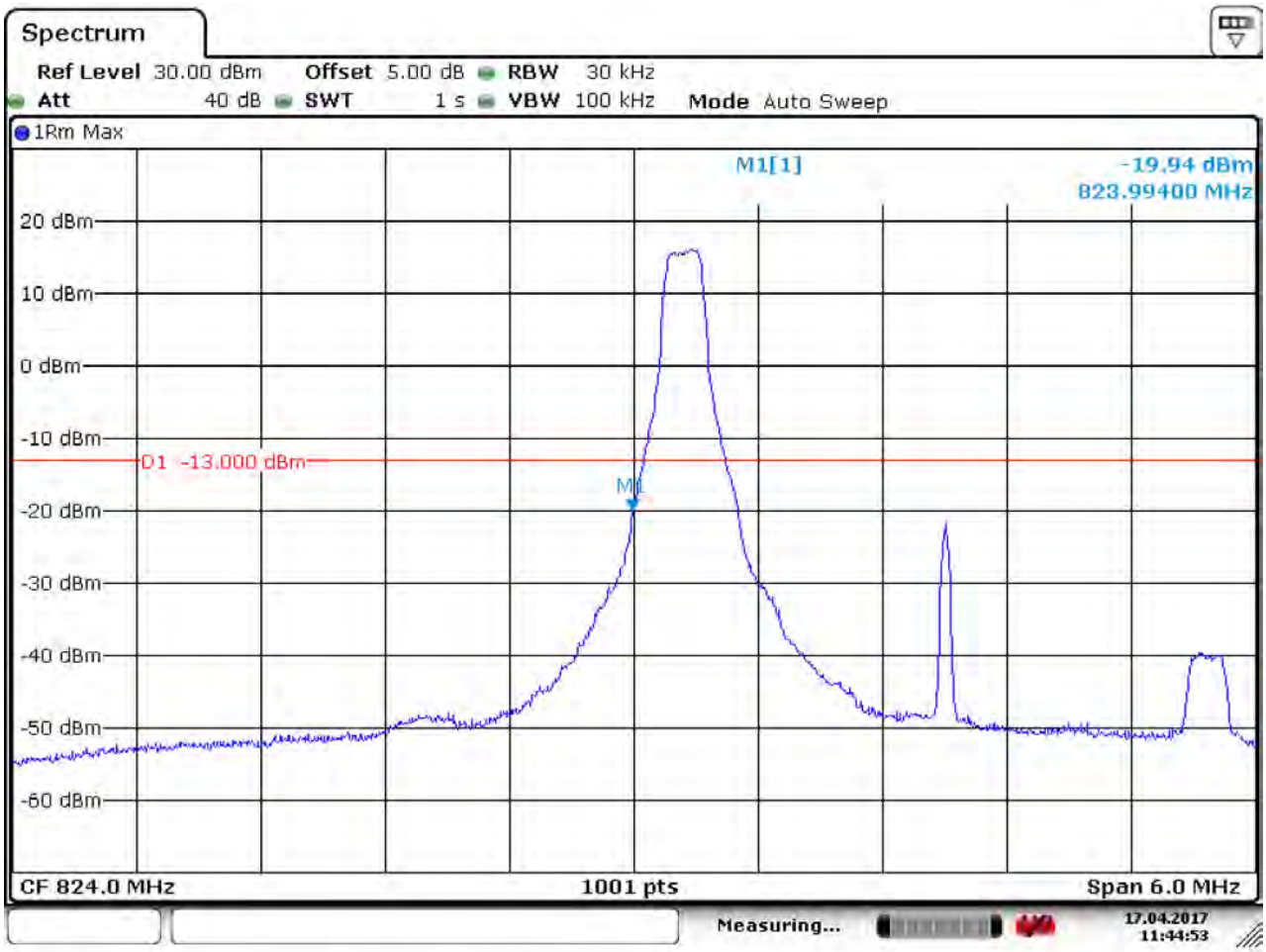


Date: 17.APR.2017 11:23:23

5.1.1.4 Test Mode = LTE/TM2 3MHz

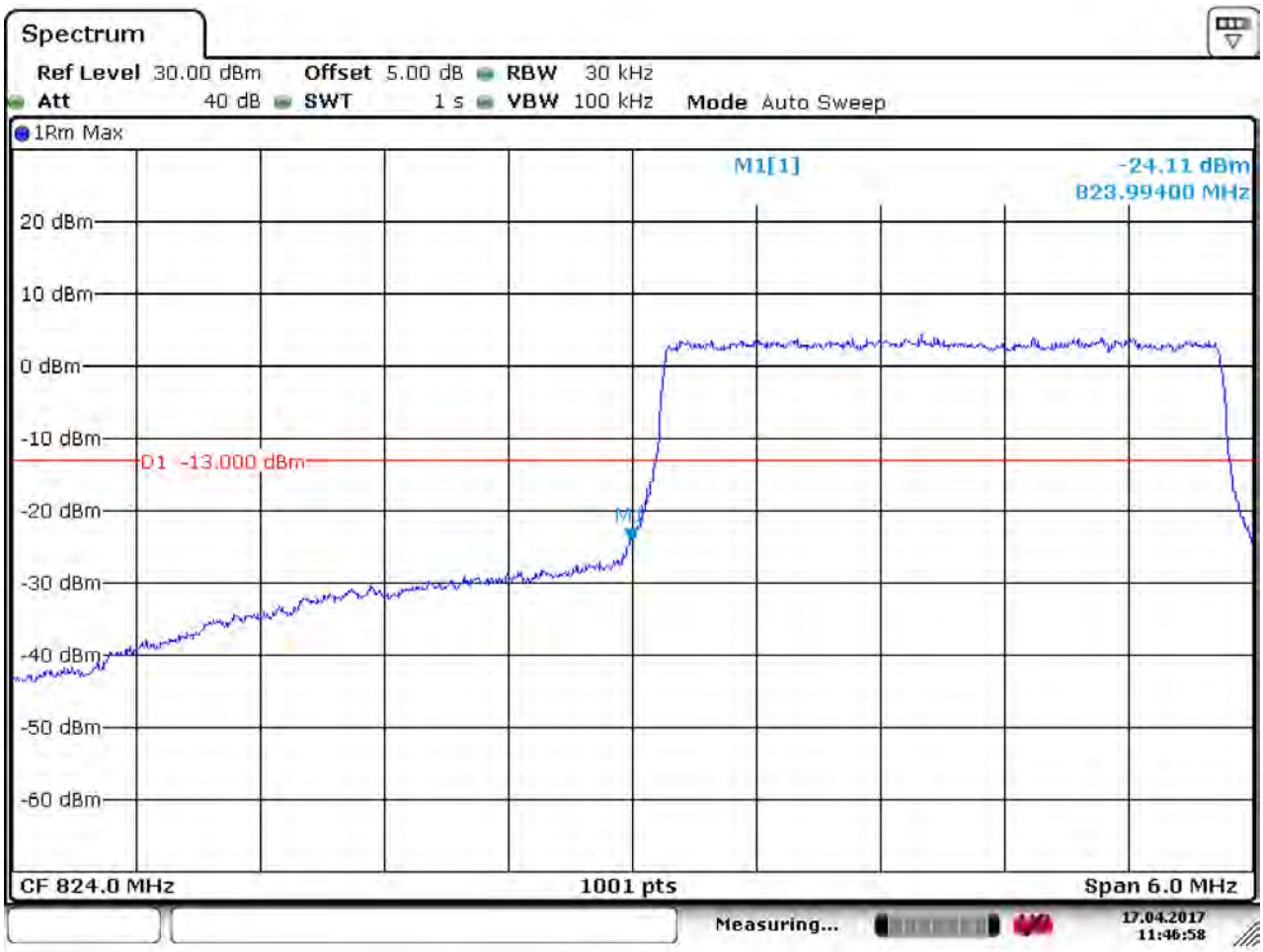
5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



Date: 17.APR.2017 11:44:54

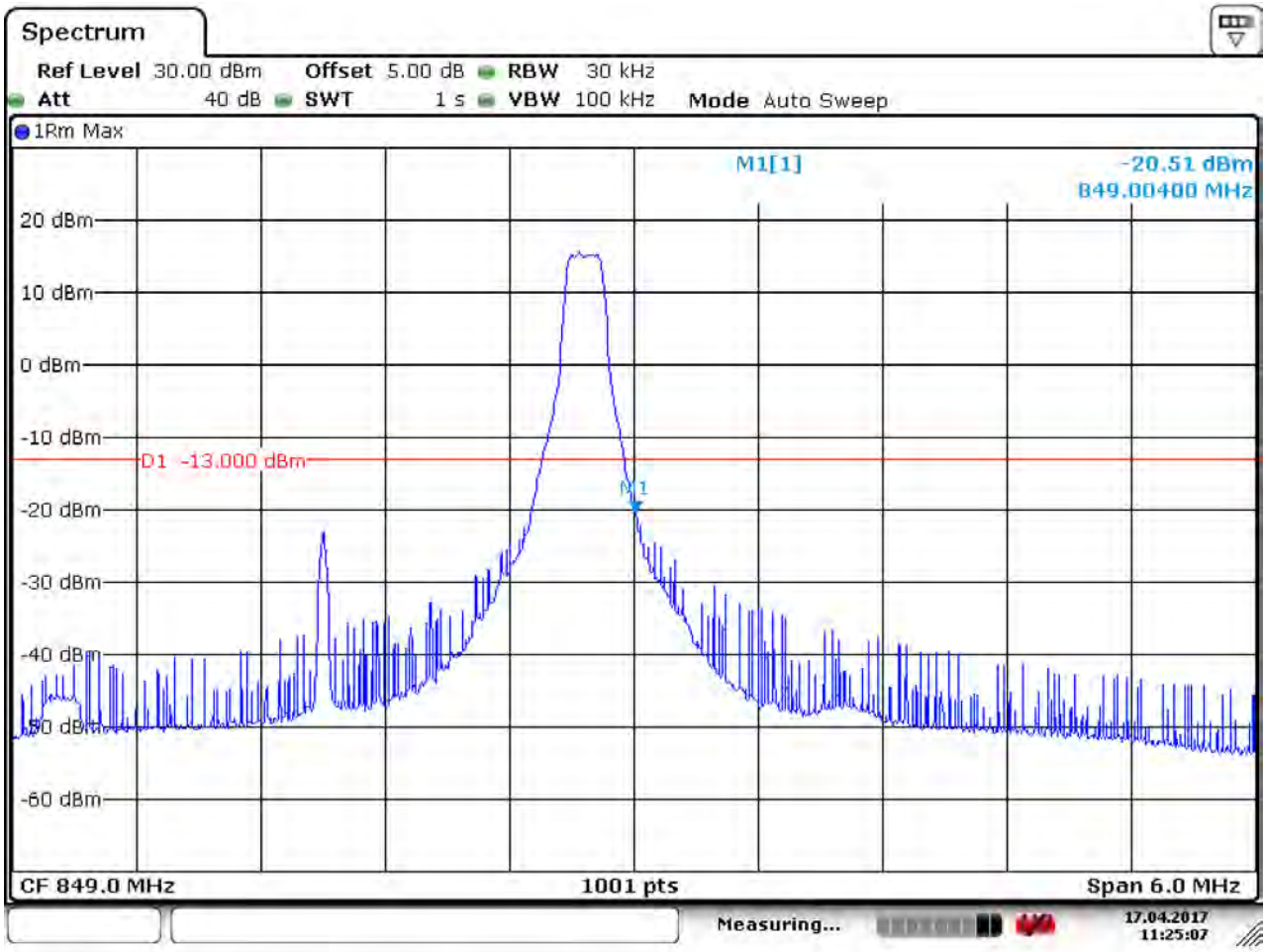
5.1.1.4.1.2 Test RB=15RB



Date: 17.APR.2017 11:46:59

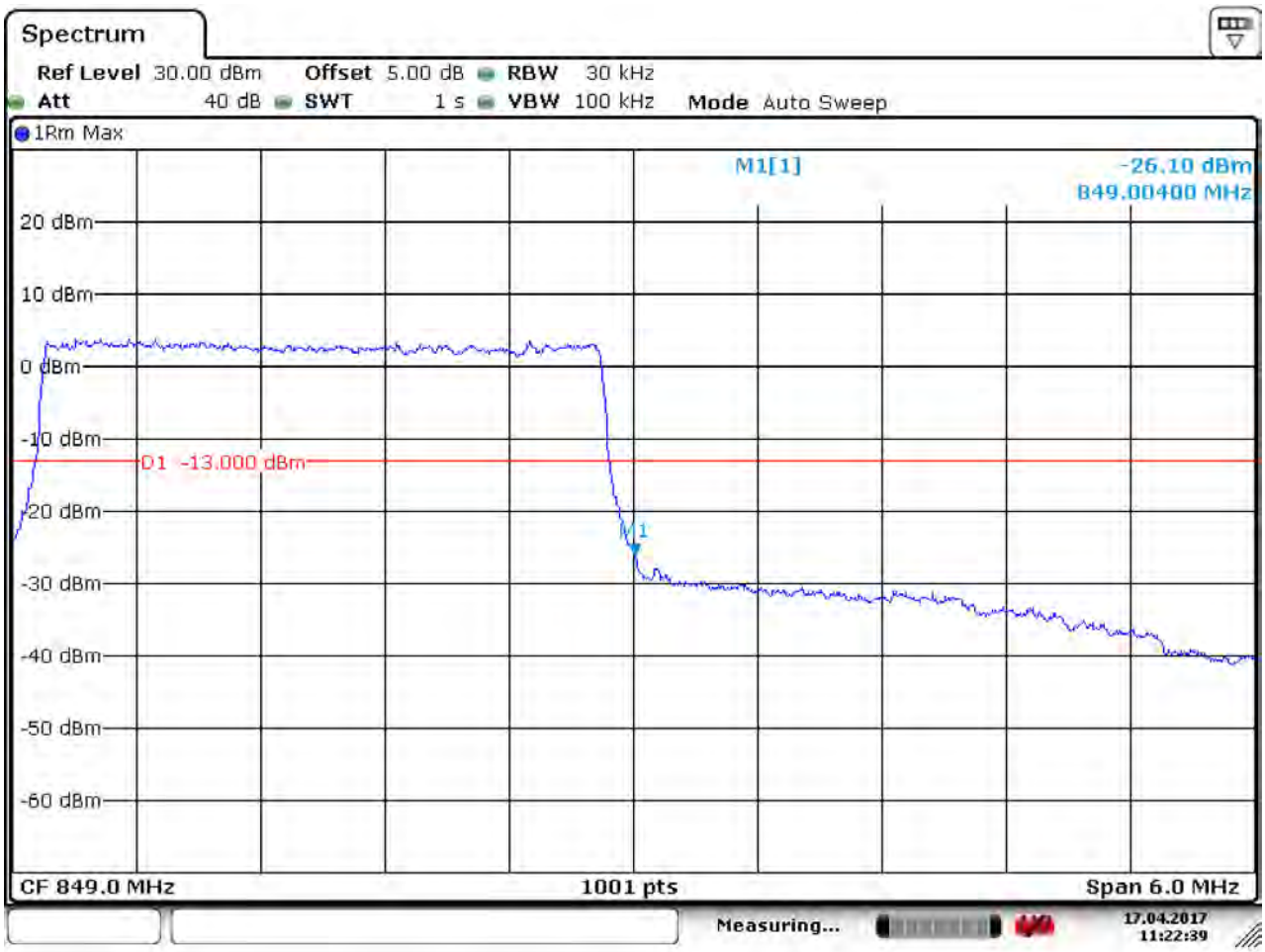
5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 17.APR.2017 11:25:07

5.1.1.4.3 Test RB=15RB

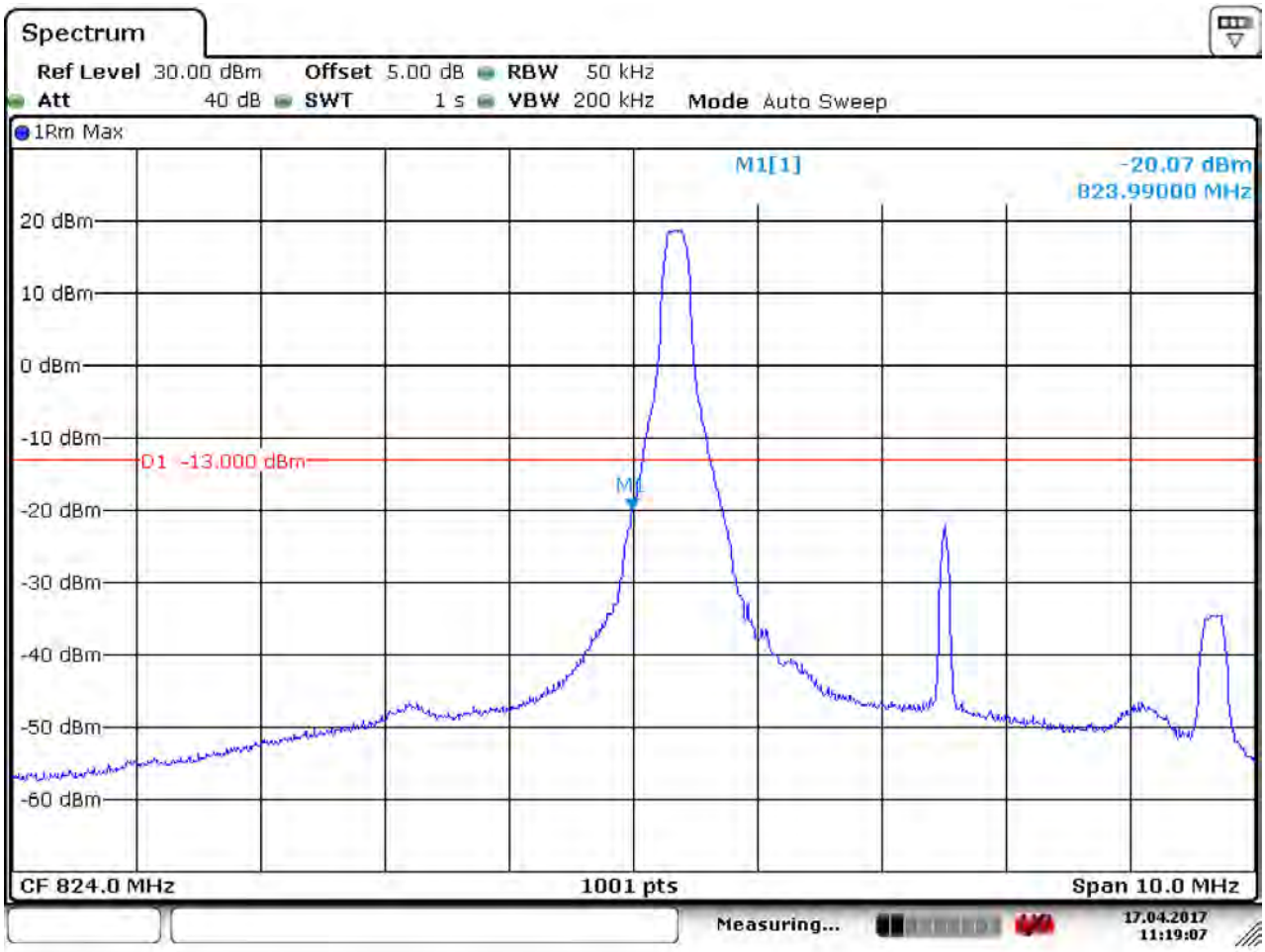


Date: 17.APR.2017 11:22:40

5.1.1.5 Test Mode = LTE/TM1 5MHz

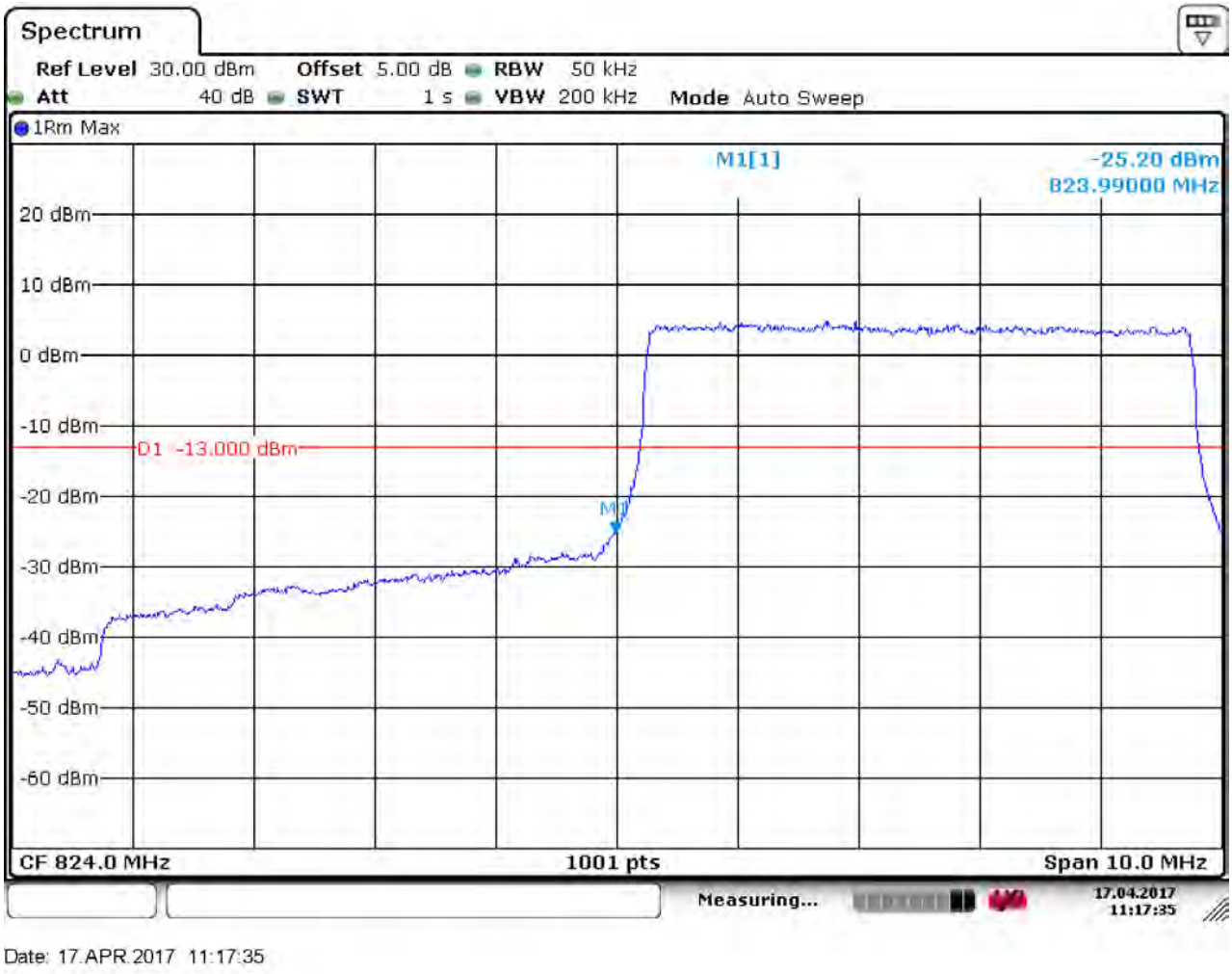
5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



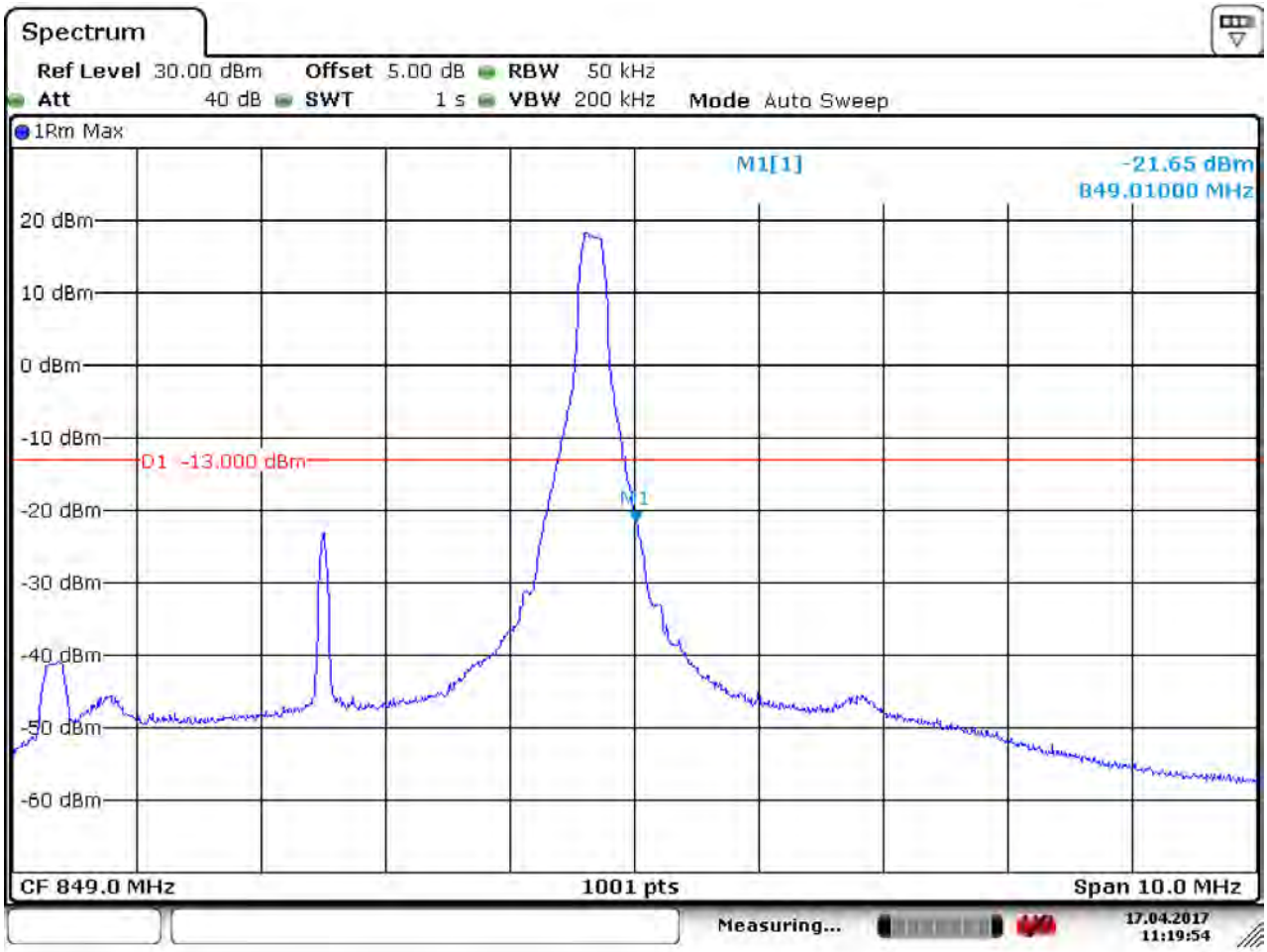
Date: 17.APR.2017 11:19:07

5.1.1.5.1.2 Test RB=25RB



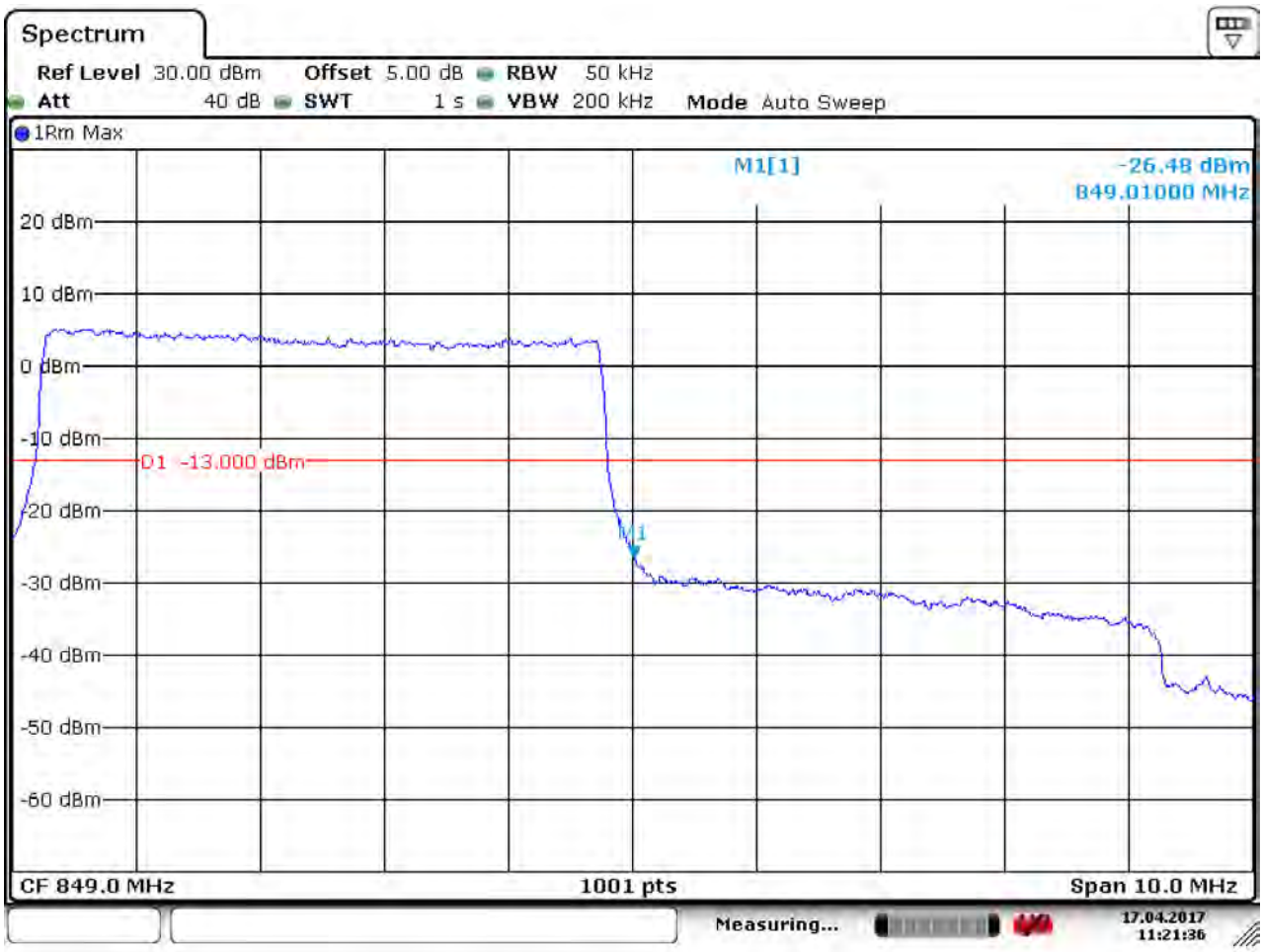
5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



Date: 17.APR.2017 11:19:54

5.1.1.5.2.2 Test RB=25RB

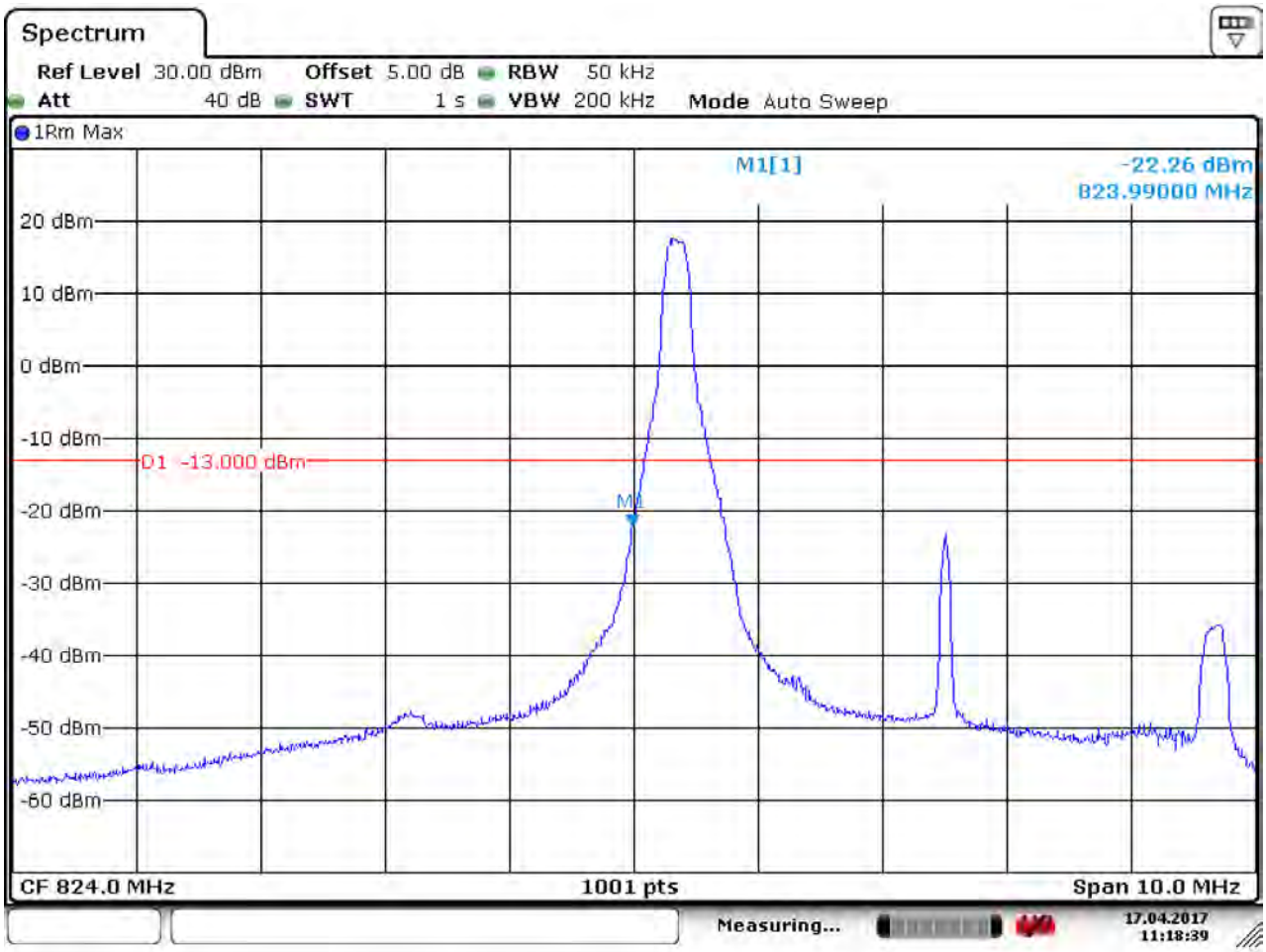


Date: 17.APR.2017 11:21:37

5.1.1.6 Test Mode = LTE/TM2 5MHz

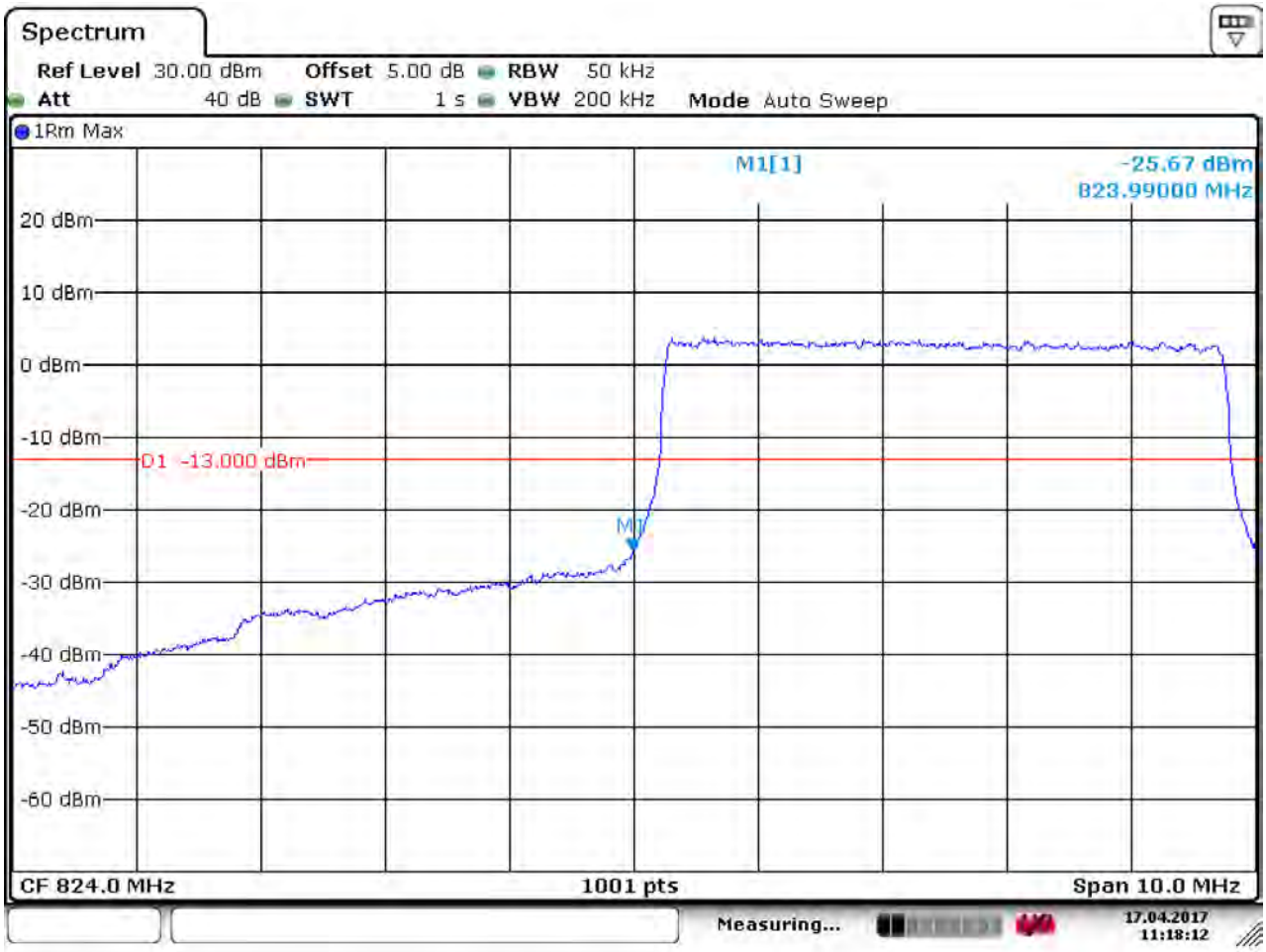
5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 17.APR.2017 11:18:40

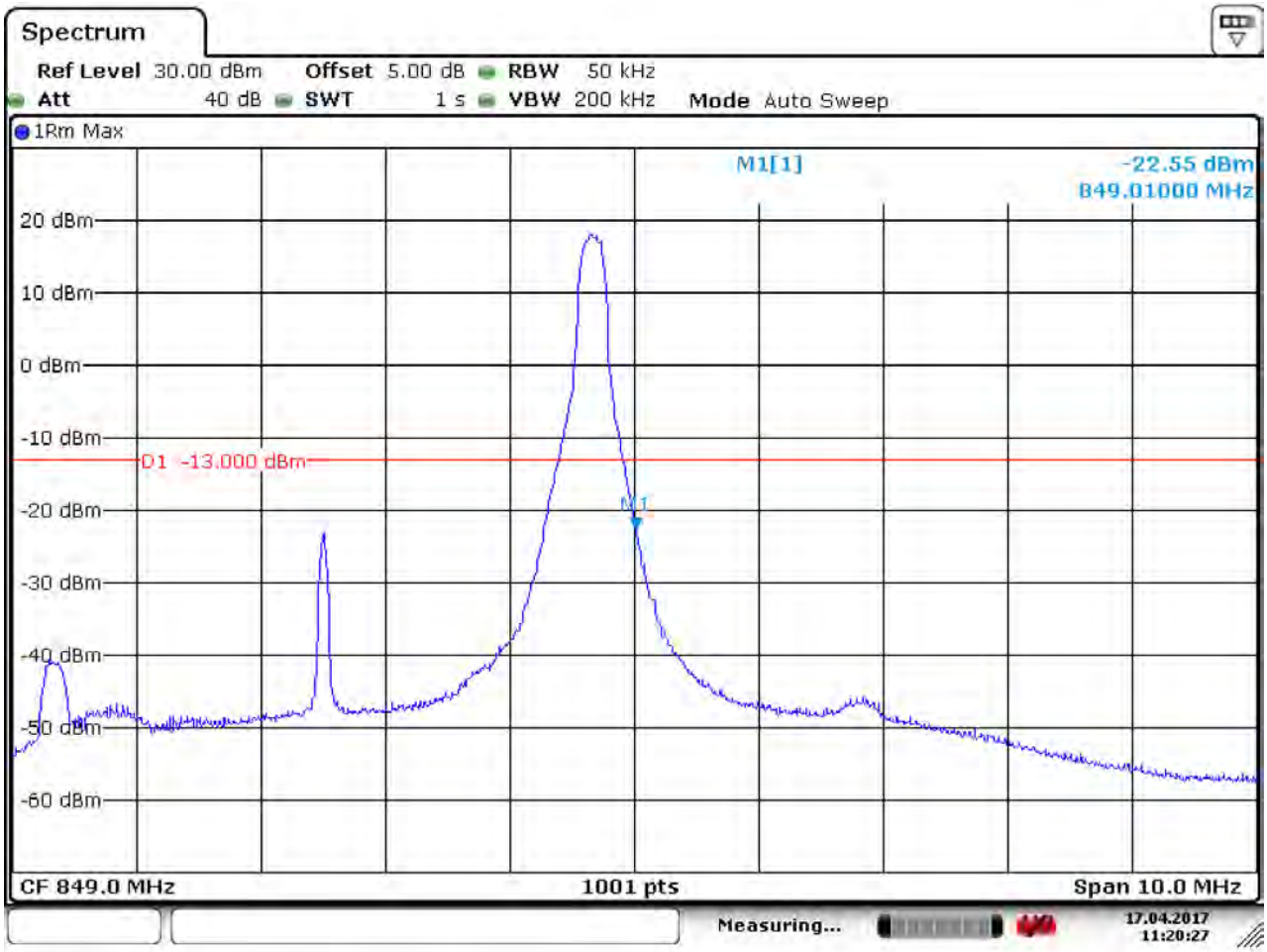
5.1.1.6.1.2 Test RB=25RB



Date: 17.APR.2017 11:18:13

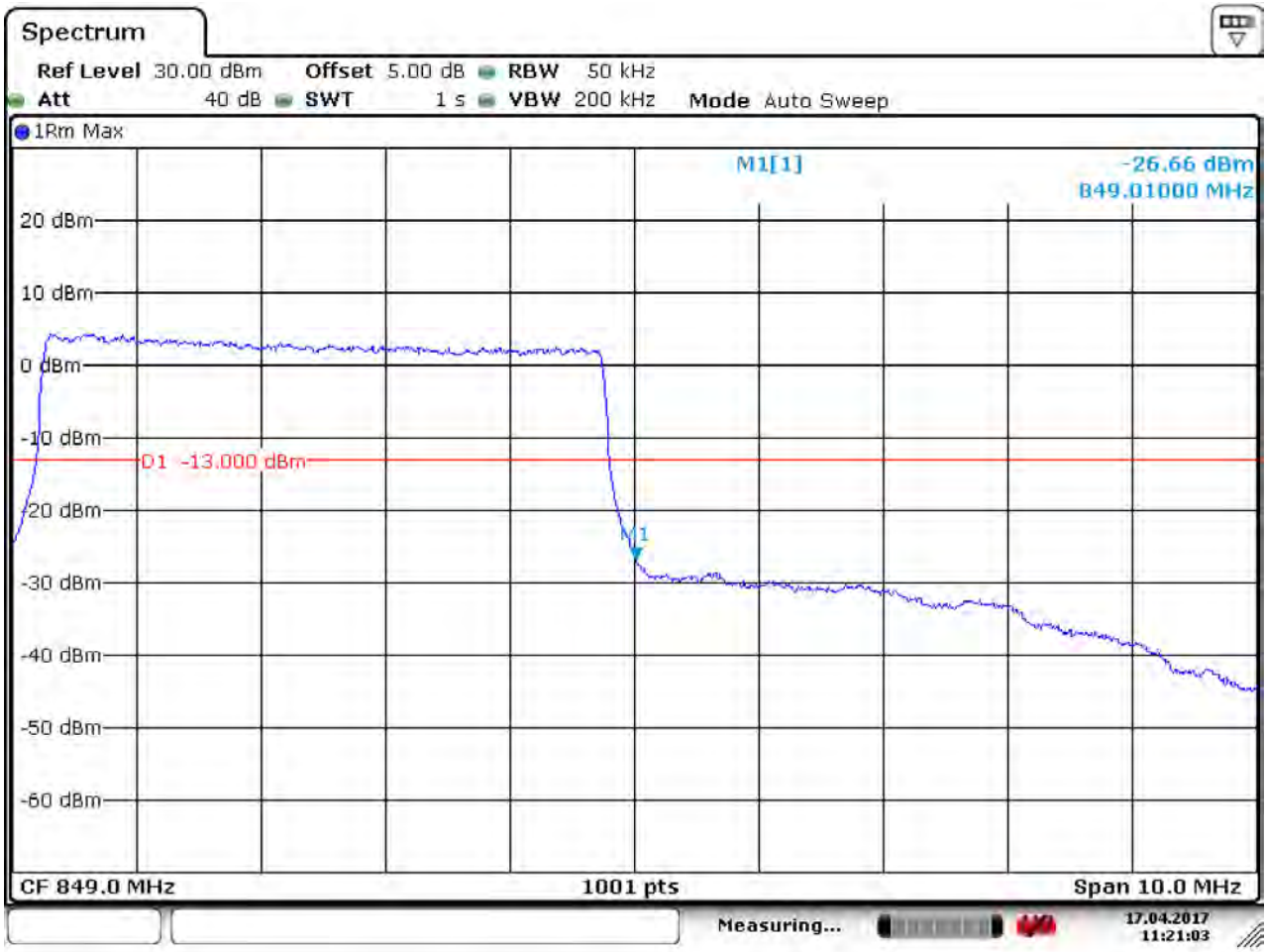
5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



Date: 17.APR.2017 11:20:27

5.1.1.6.2.2 Test RB=25RB

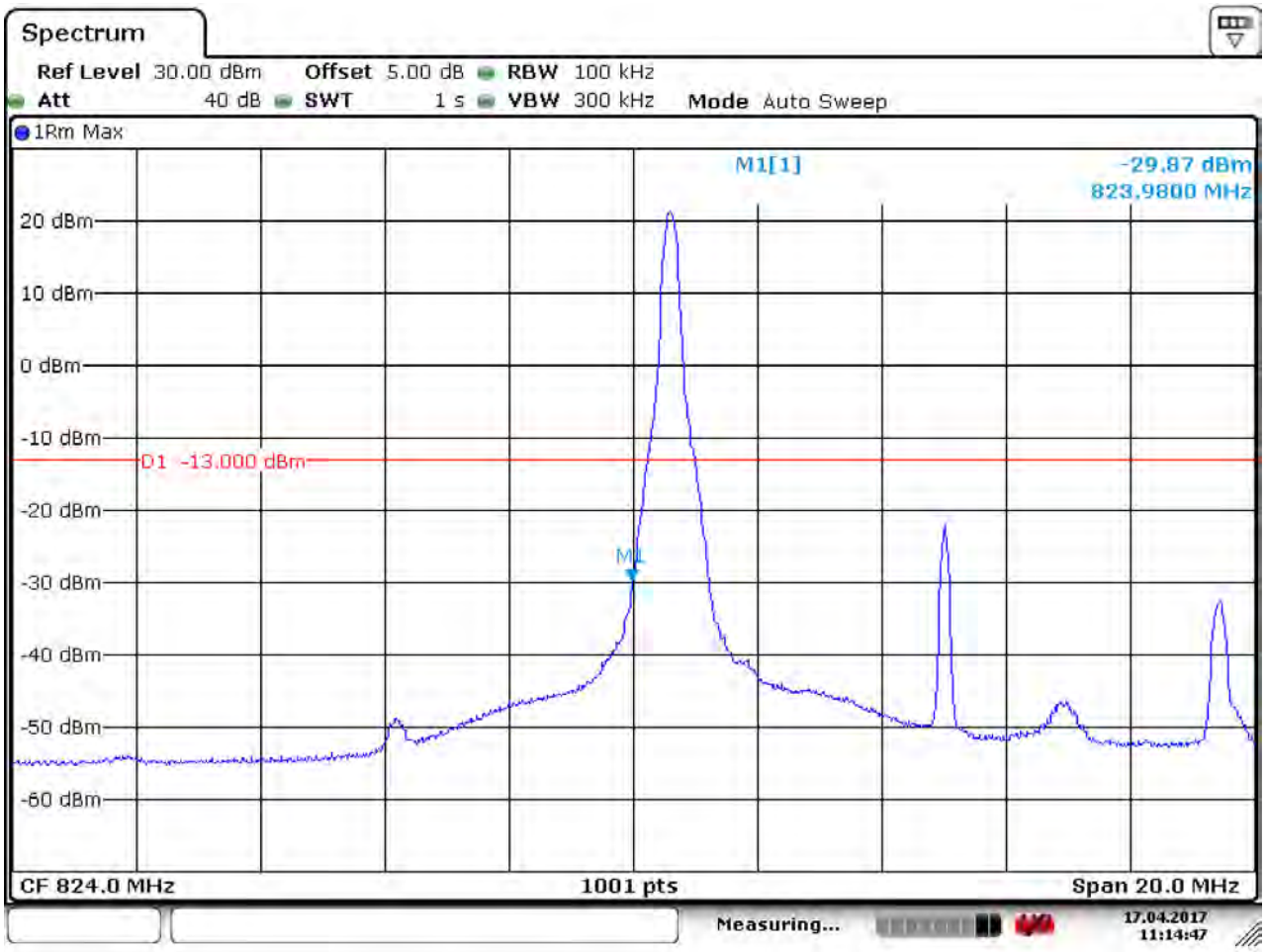


Date: 17.APR.2017 11:21:03

5.1.1.7 Test Mode = LTE/TM1 10MHz

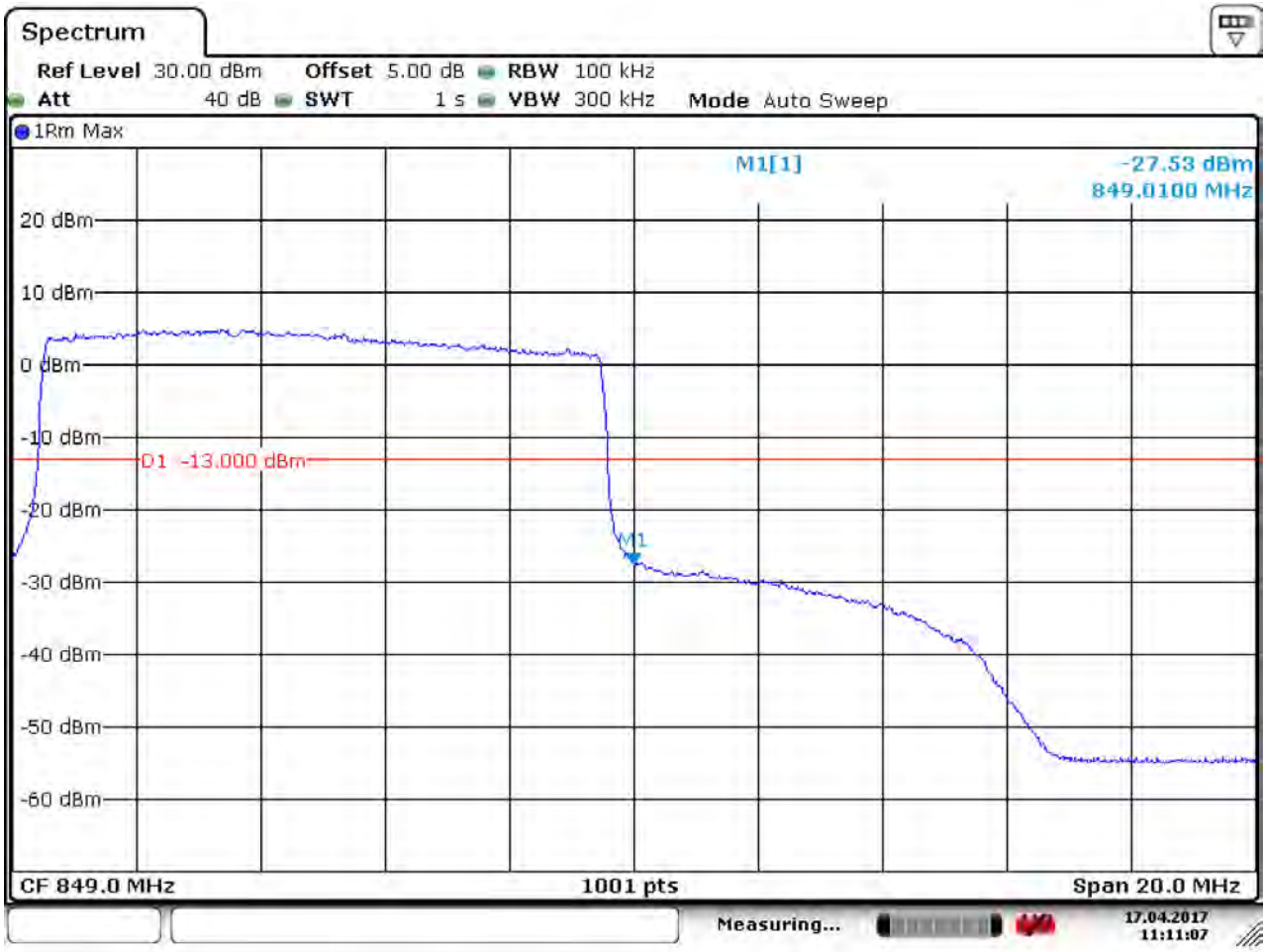
5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 17.APR.2017 11:14:47

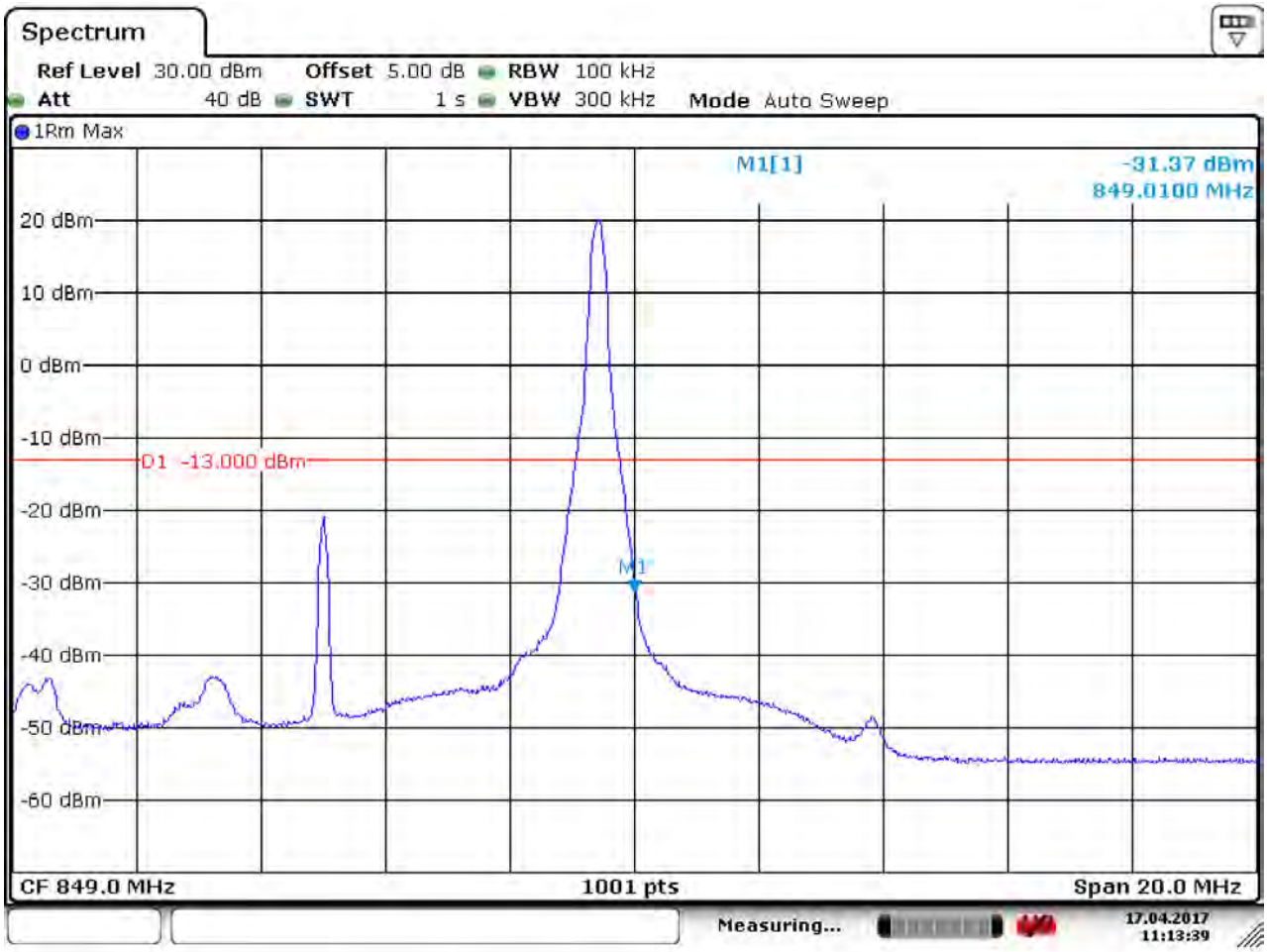
5.1.1.7.1.2 Test RB=50RB



Date: 17.APR.2017 11:11:08

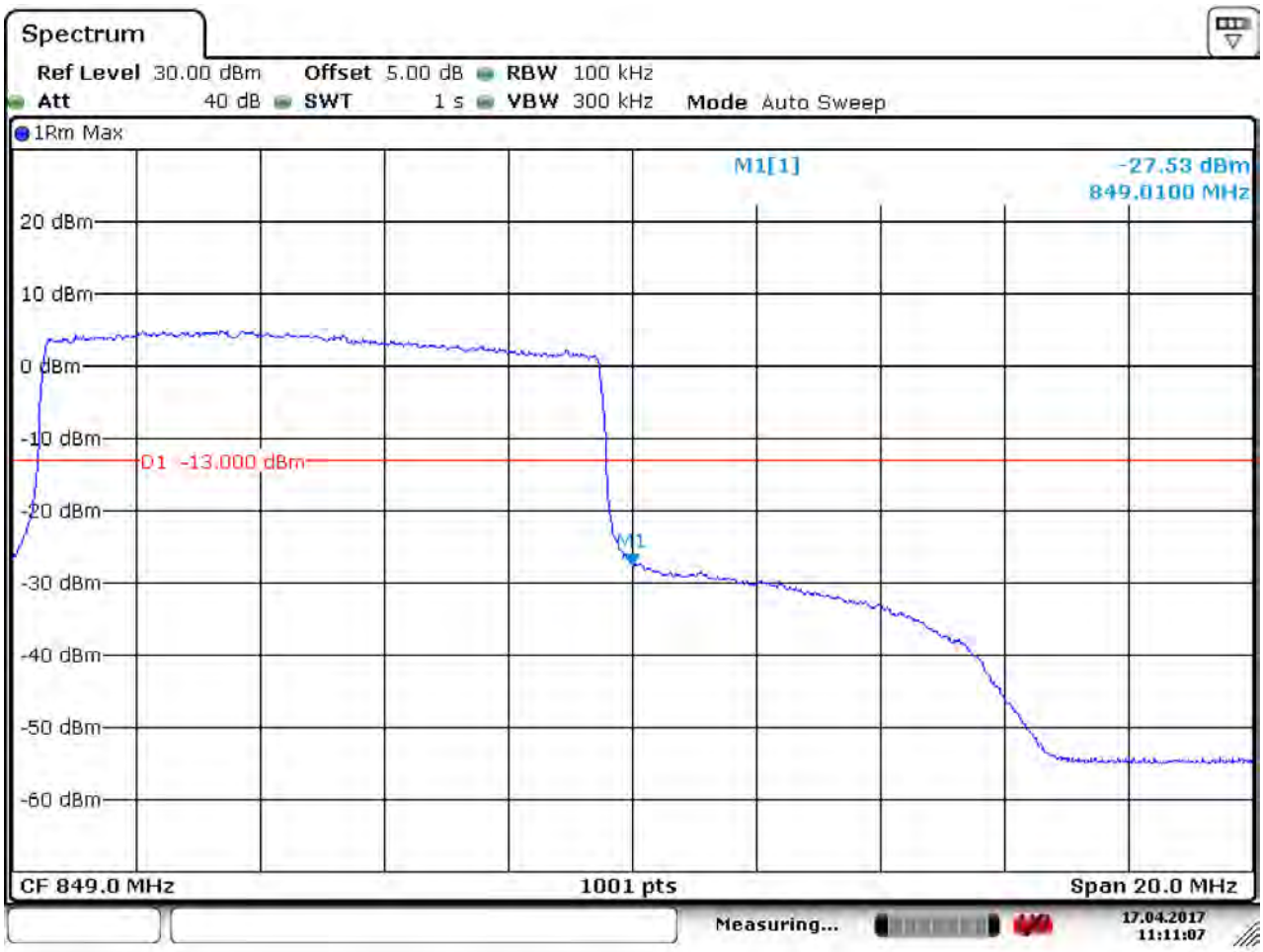
5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 17.APR.2017 11:13:39

5.1.1.7.2.2 Test RB=50RB

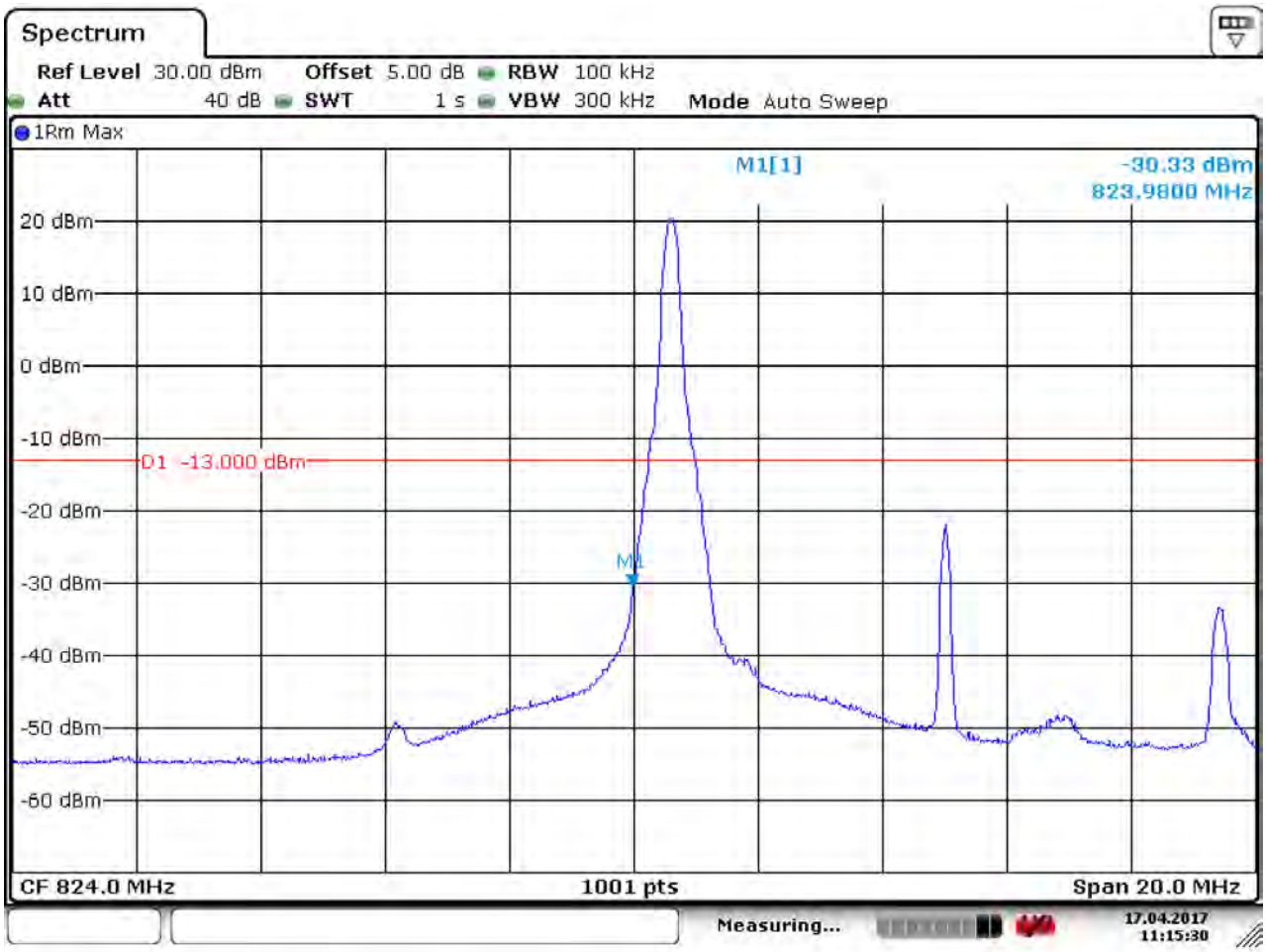


Date: 17.APR.2017 11:11:08

5.1.1.8 Test Mode = LTE/TM2 10MHz

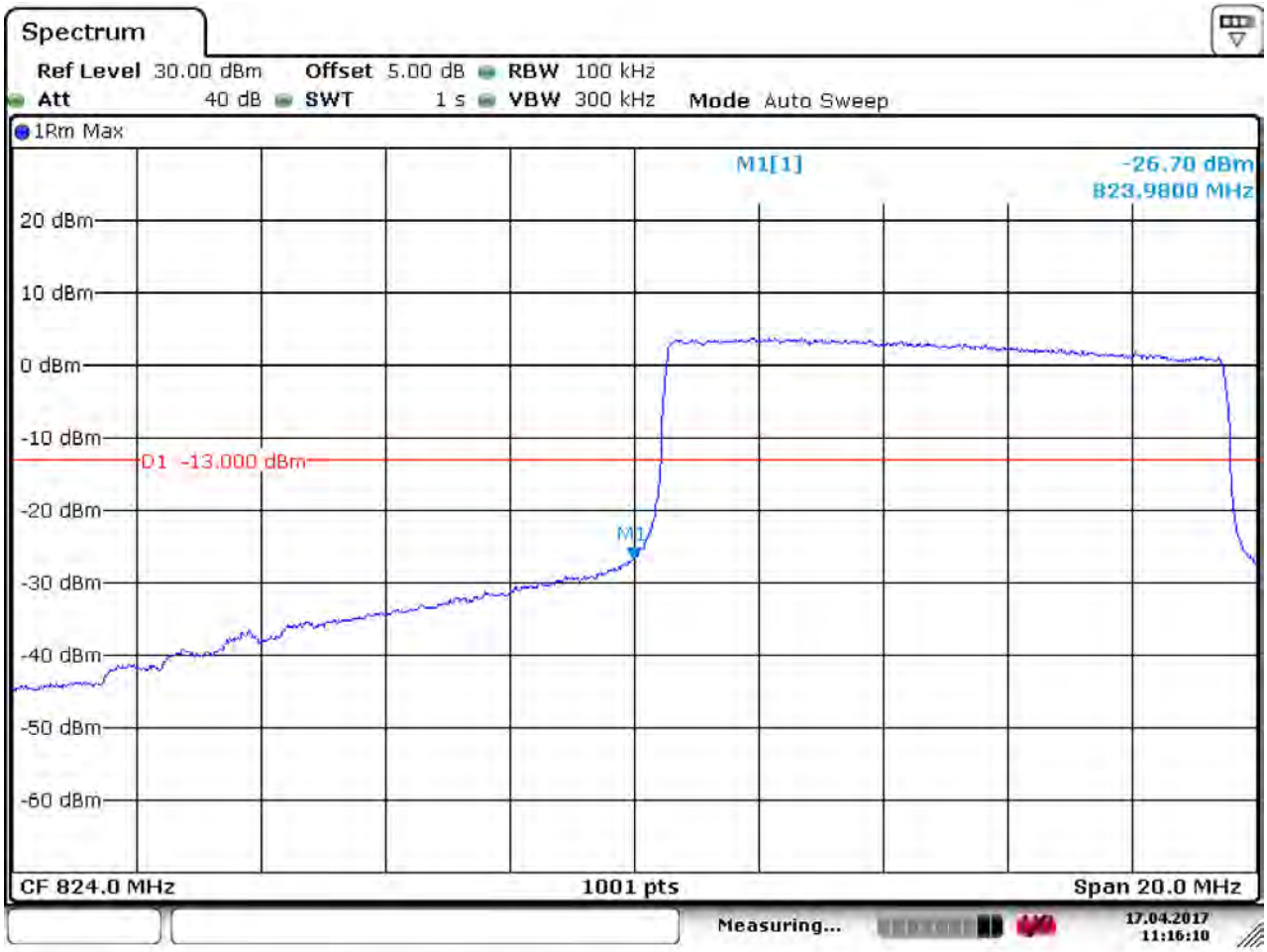
5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



Date: 17.APR.2017 11:15:30

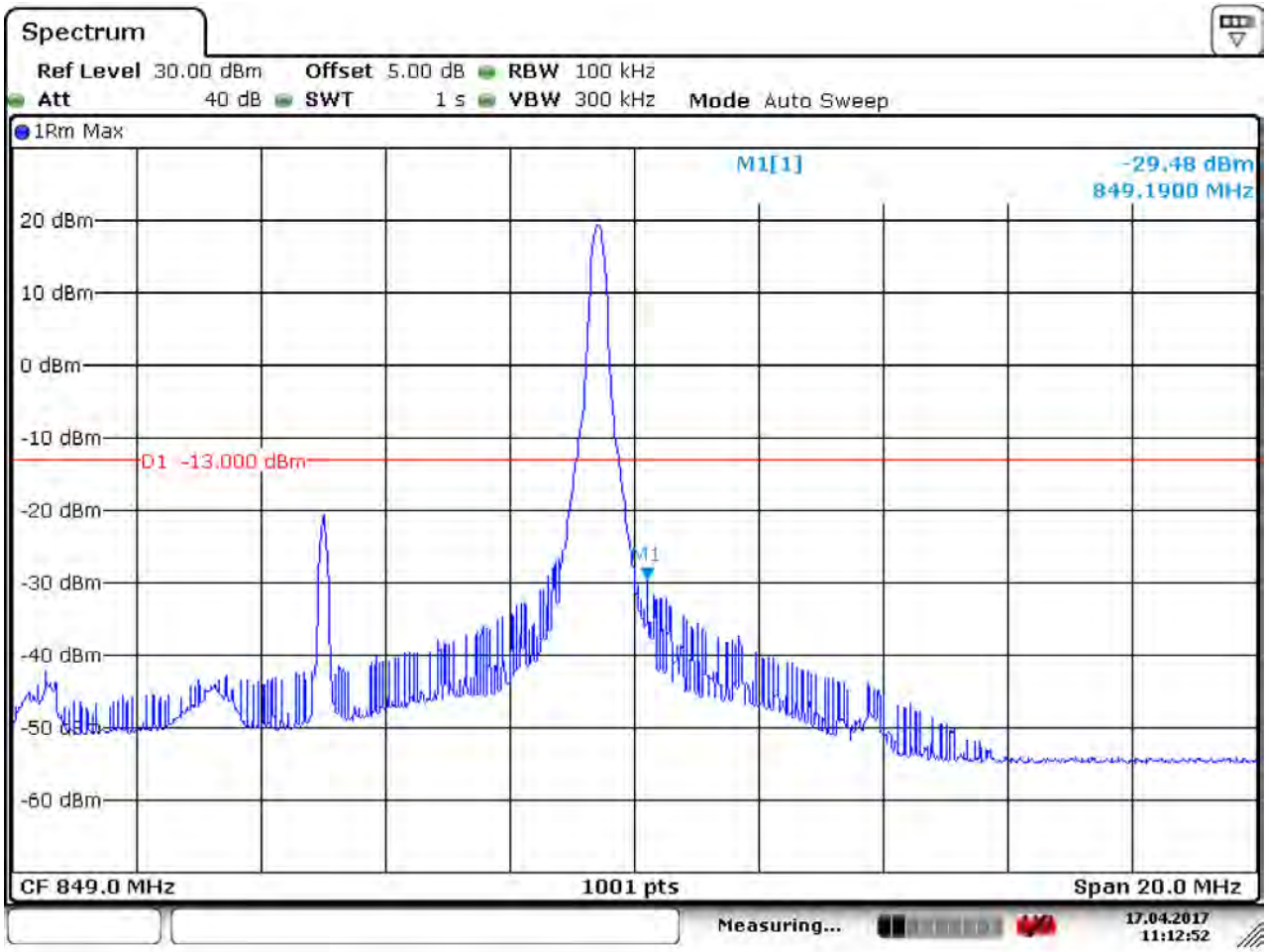
5.1.1.8.1.2 Test RB=50RB



Date: 17.APR.2017 11:16:10

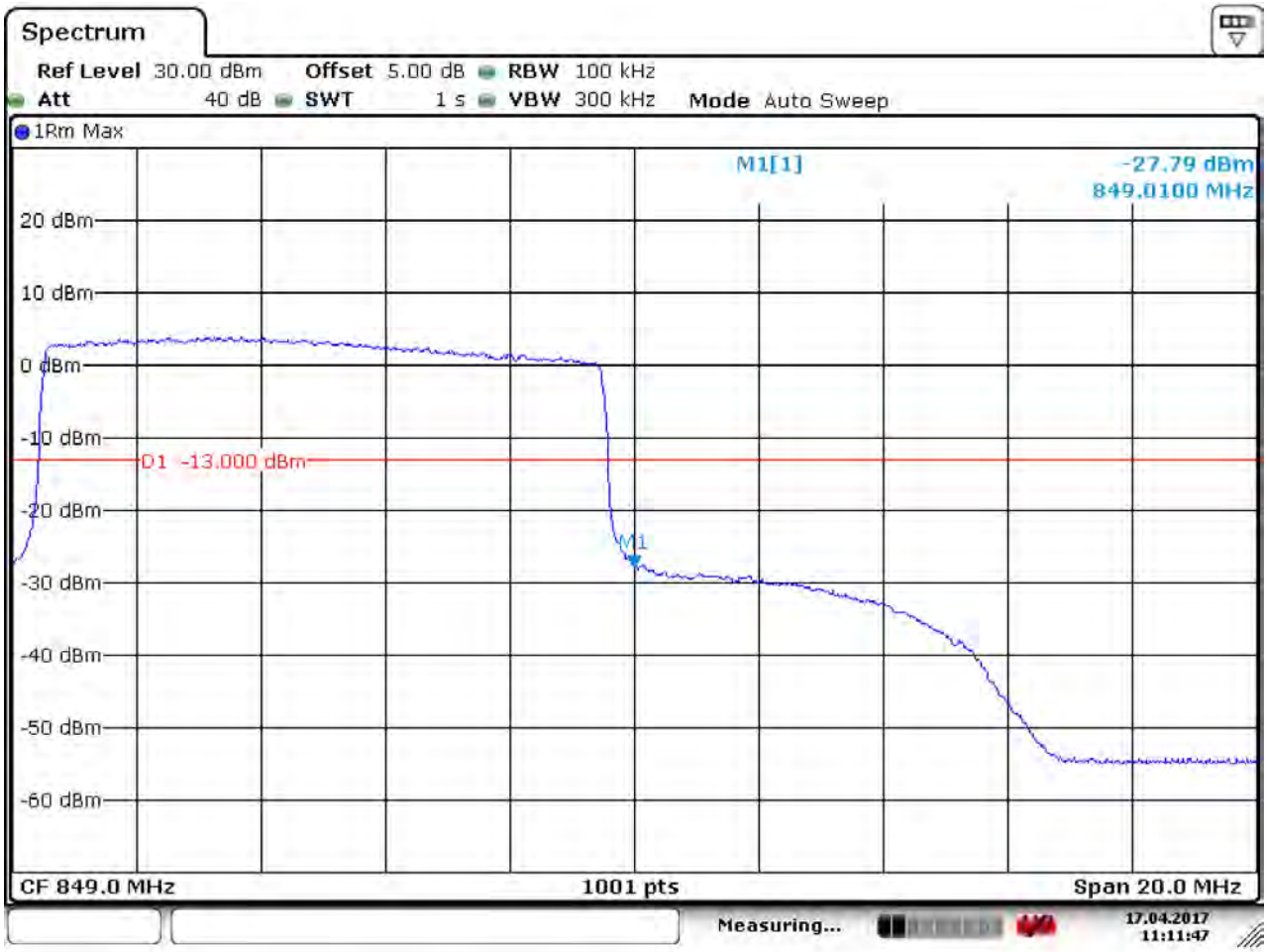
5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 17.APR.2017 11:12:53

5.1.1.8.2.2 Test RB=50RB

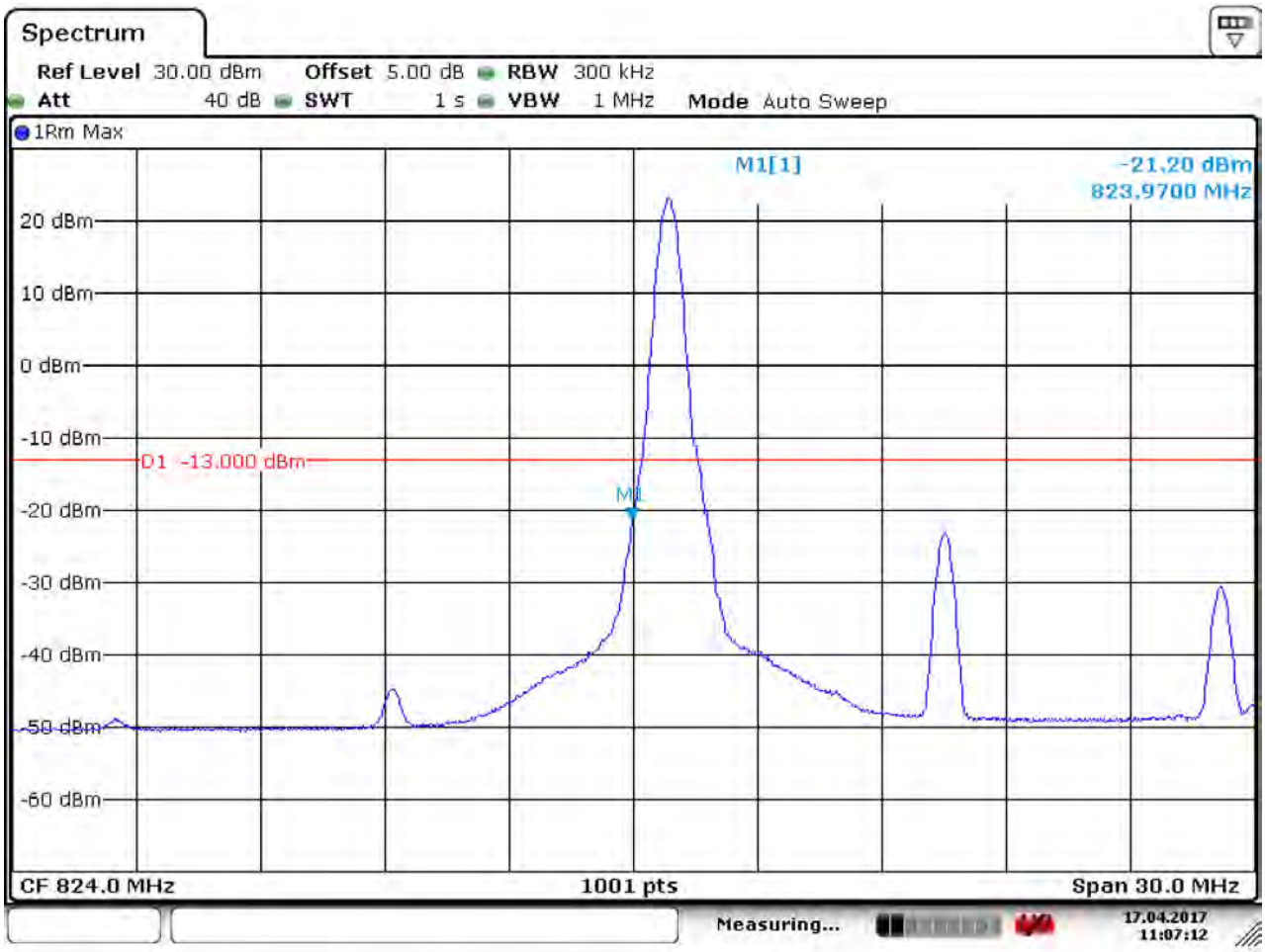


Date: 17.APR.2017 11:11:47

5.1.1.9 Test Mode = LTE/TM1 15MHz

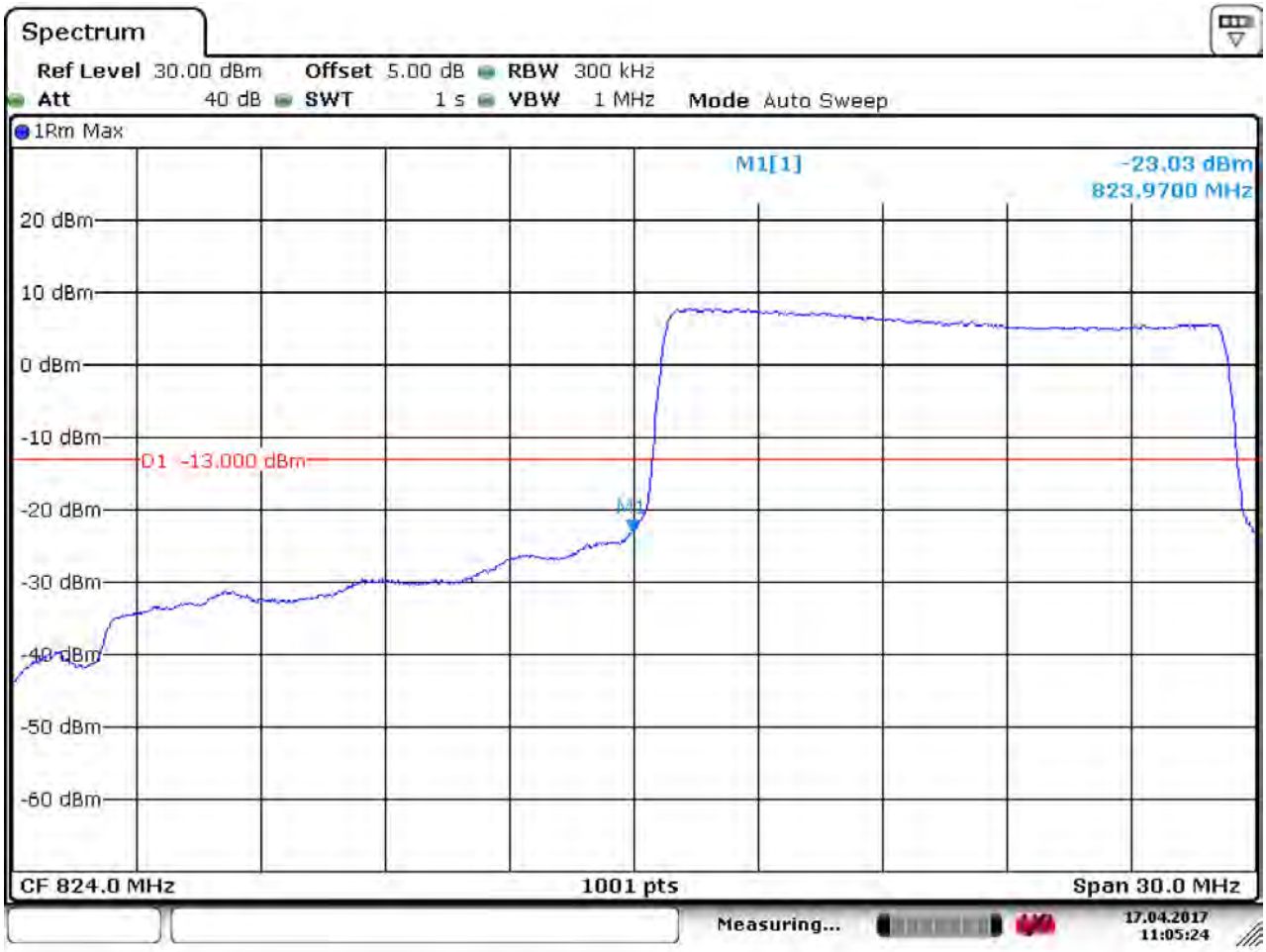
5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 17.APR.2017 11:07:13

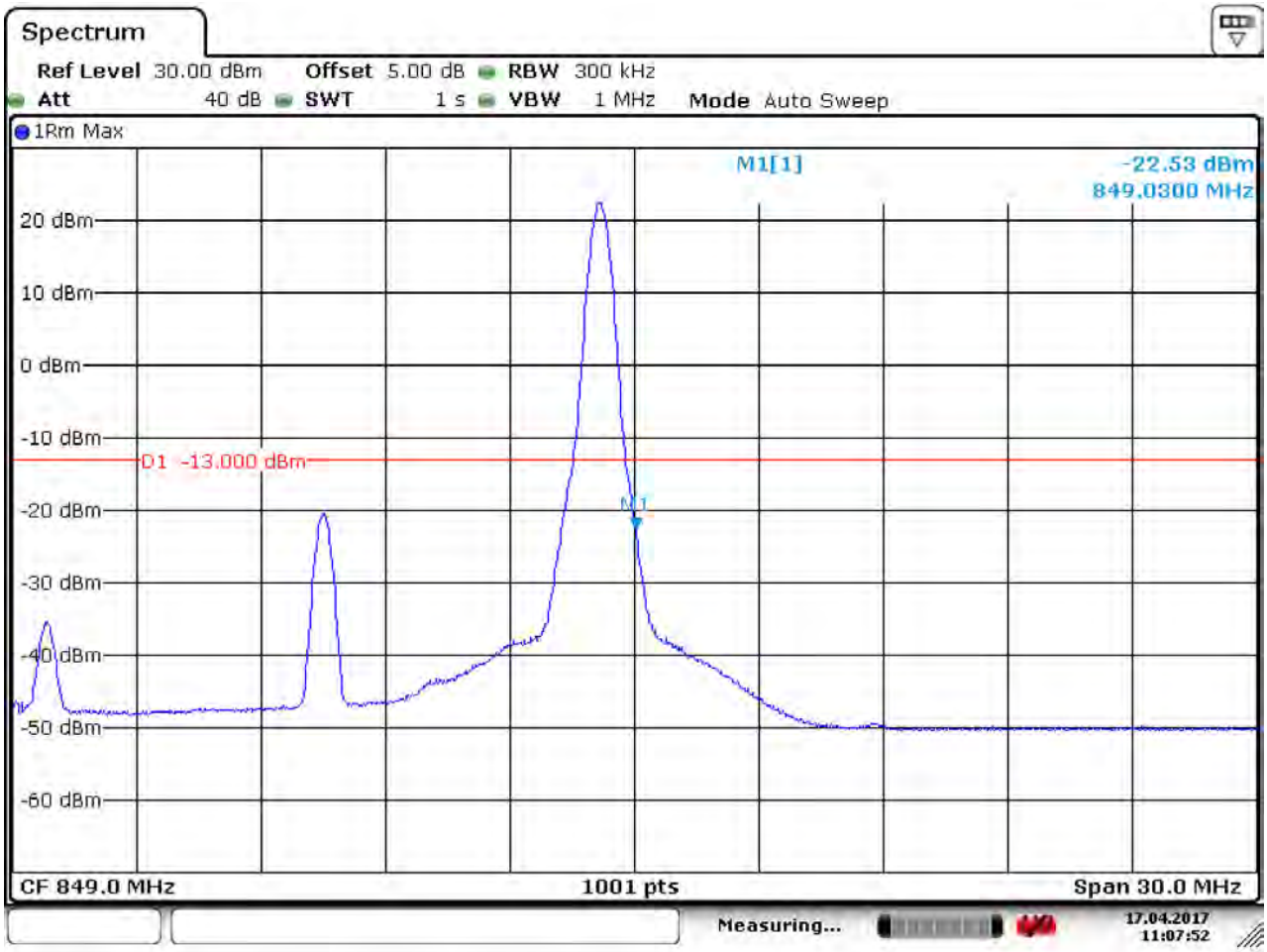
5.1.1.9.1.2 Test RB=75RB



Date: 17.APR.2017 11:05:24

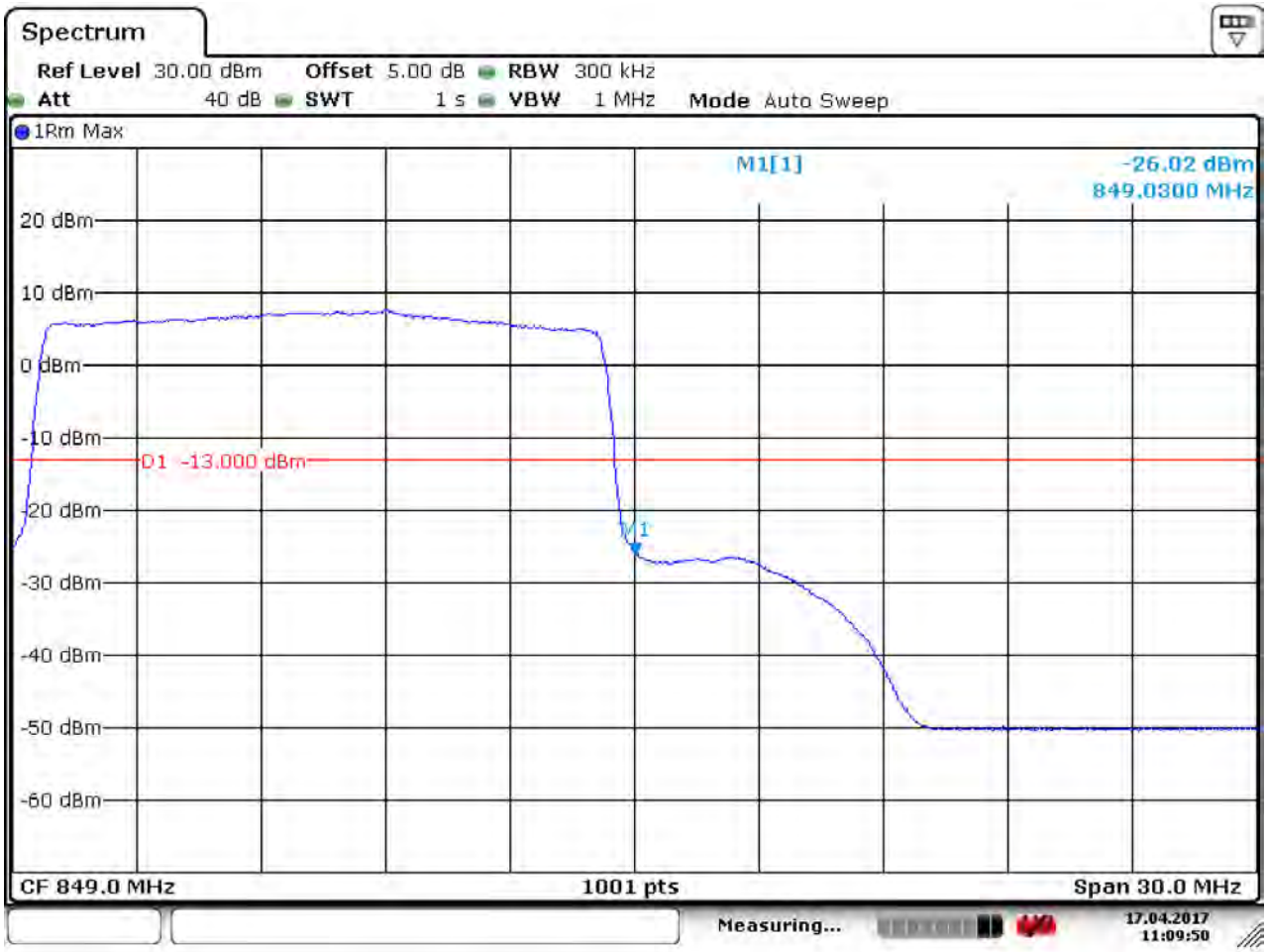
5.1.1.9.2 Test Channel = HCH

5.1.1.9.2.1 Test RB=1RB



Date: 17.APR.2017 11:07:52

5.1.1.9.2.2 Test RB=75RB

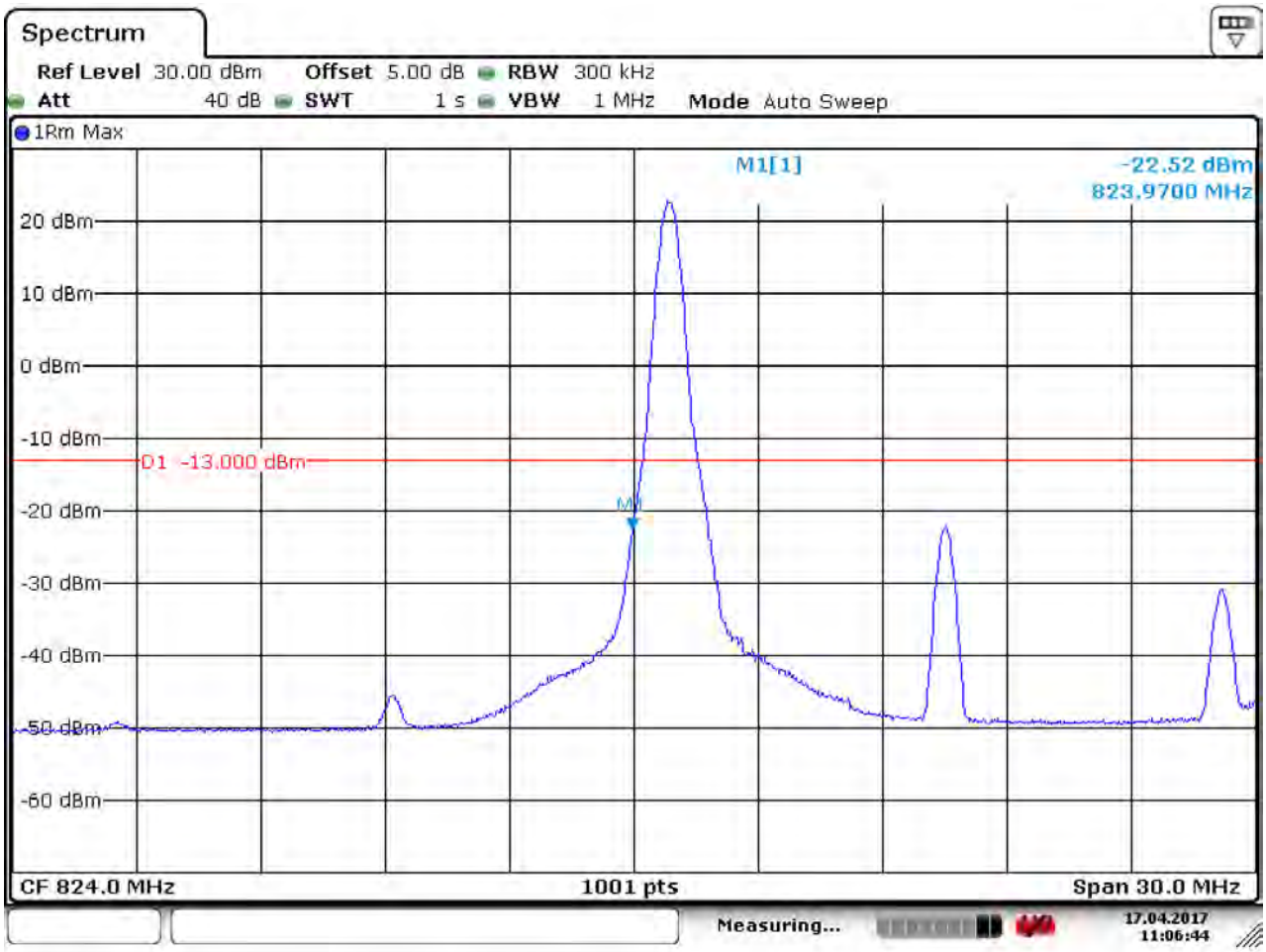


Date: 17.APR.2017 11:09:50

5.1.1.10 Test Mode = LTE/TM2 15MHz

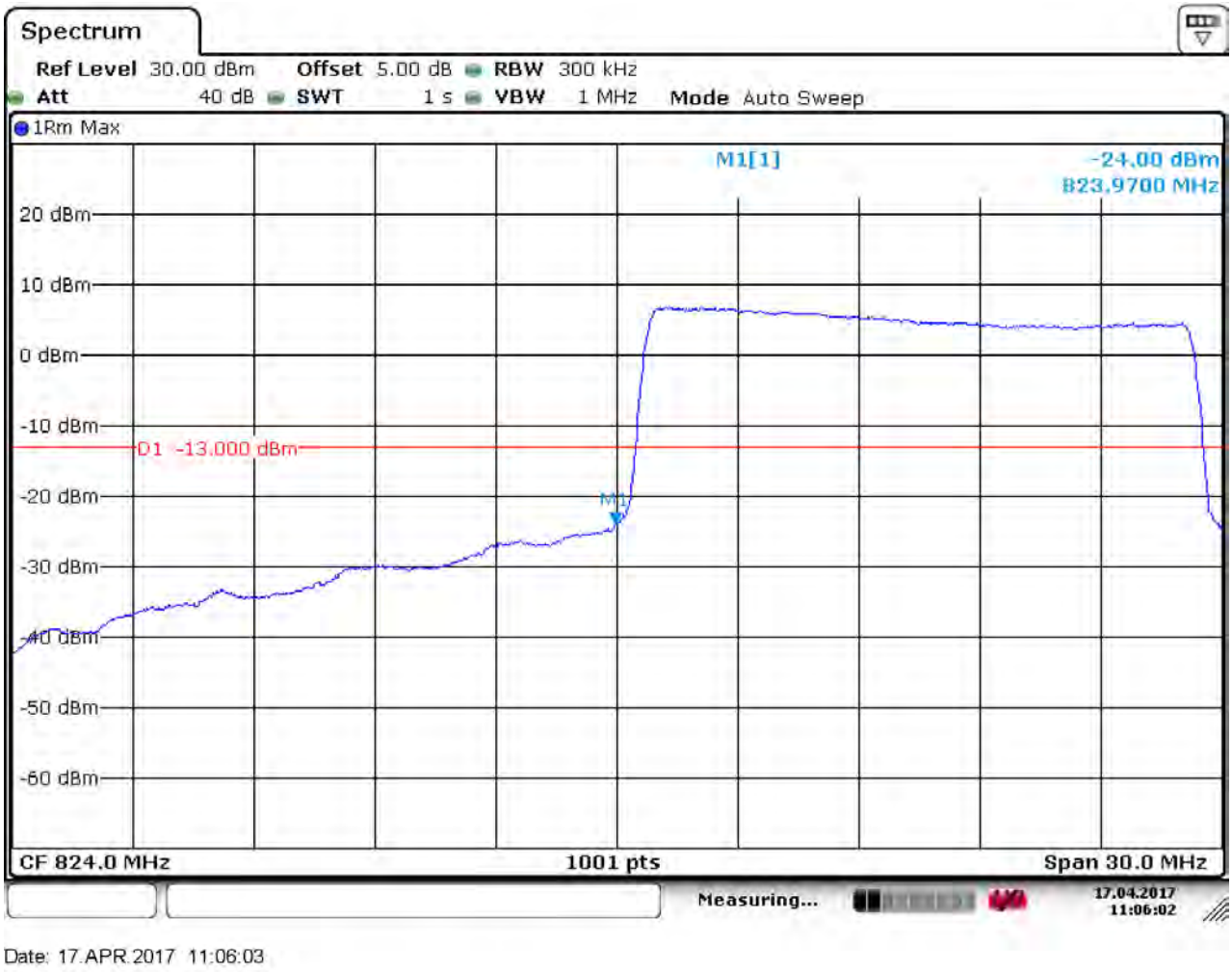
5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



Date: 17.APR.2017 11:06:44

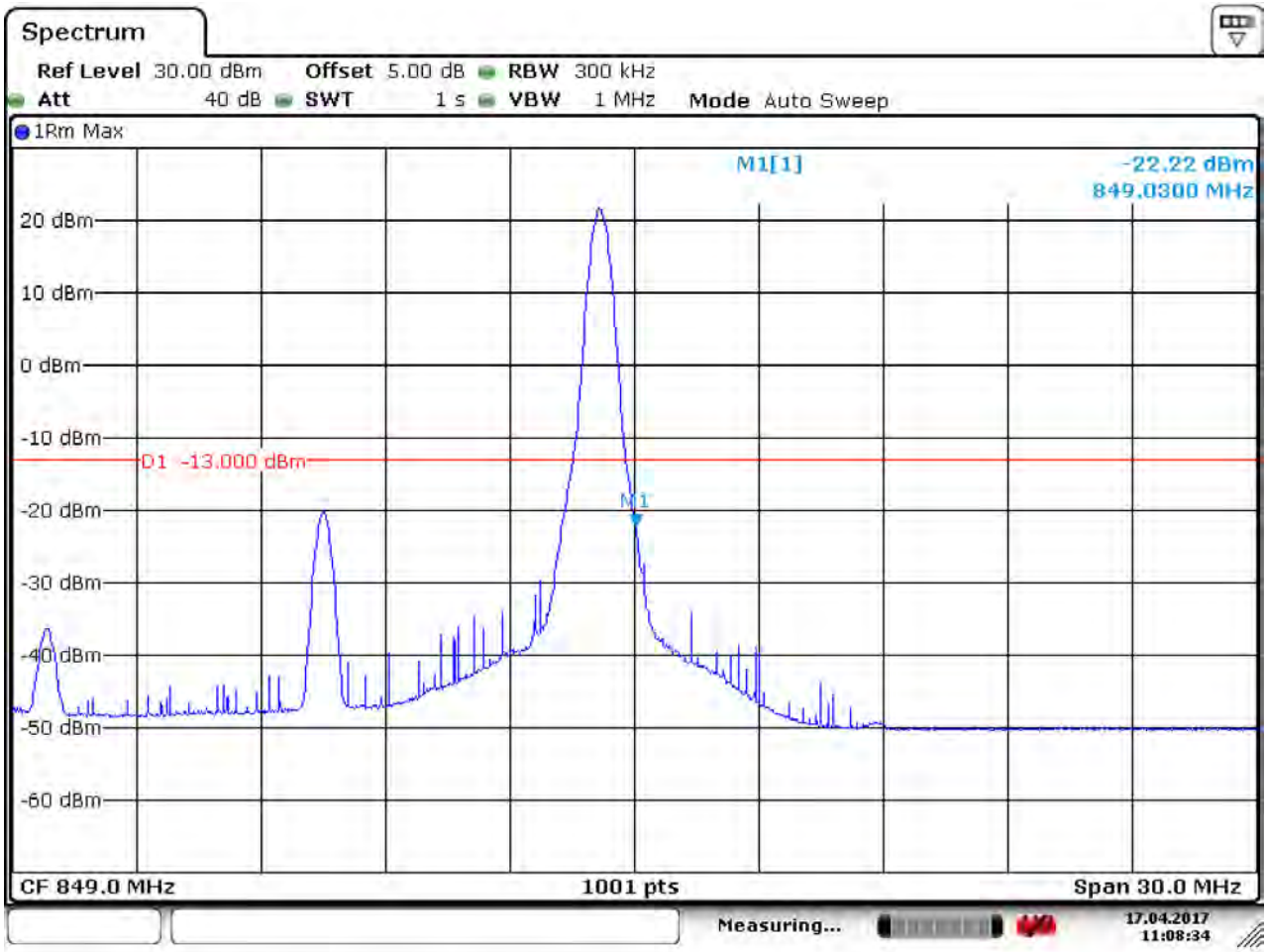
5.1.1.10.1.2 Test RB=75RB



Date: 17.APR.2017 11:06:03

5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 17.APR.2017 11:08:35

5.1.1.10.2.2 Test RB=75RB

Date: 17.APR.2017 11:09:13

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.

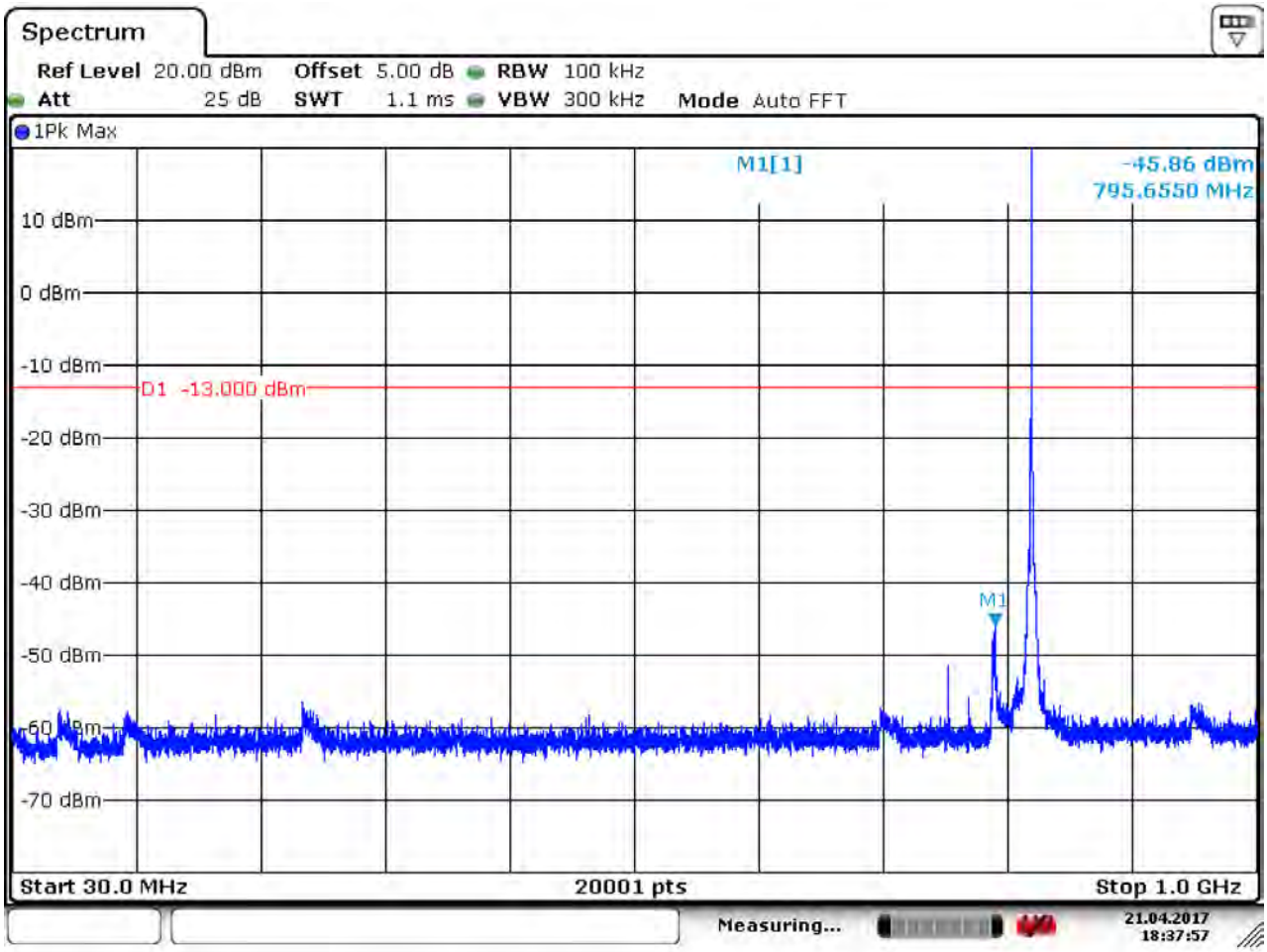
Part I - Test Plots

6.1 For LTE

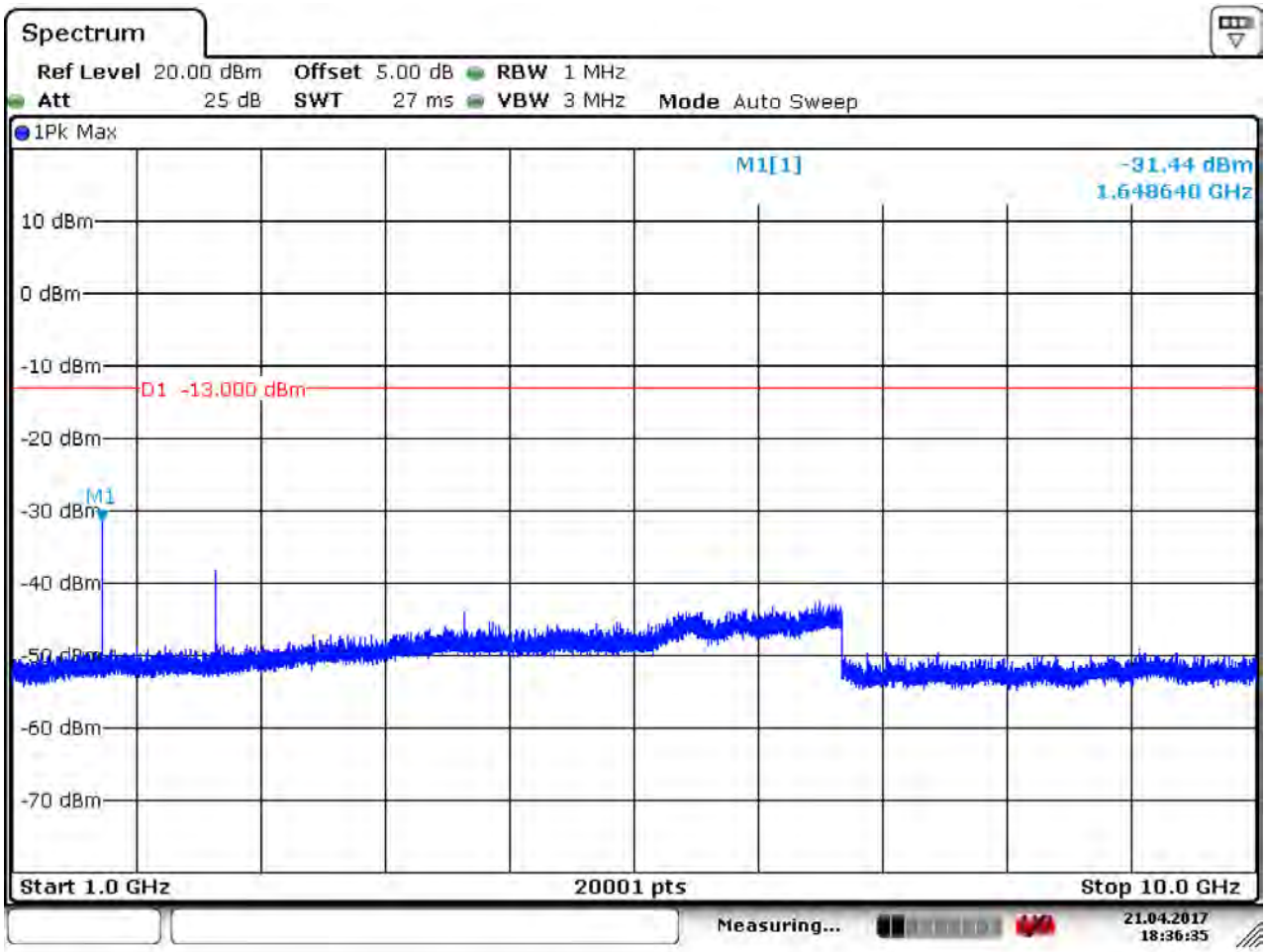
6.1.1 Test Band = LTE band26(824-849)

6.1.1.1 Test Mode = LTE / TM1 1.4MHz RB1#0

6.1.1.1.1 Test Channel = LCH

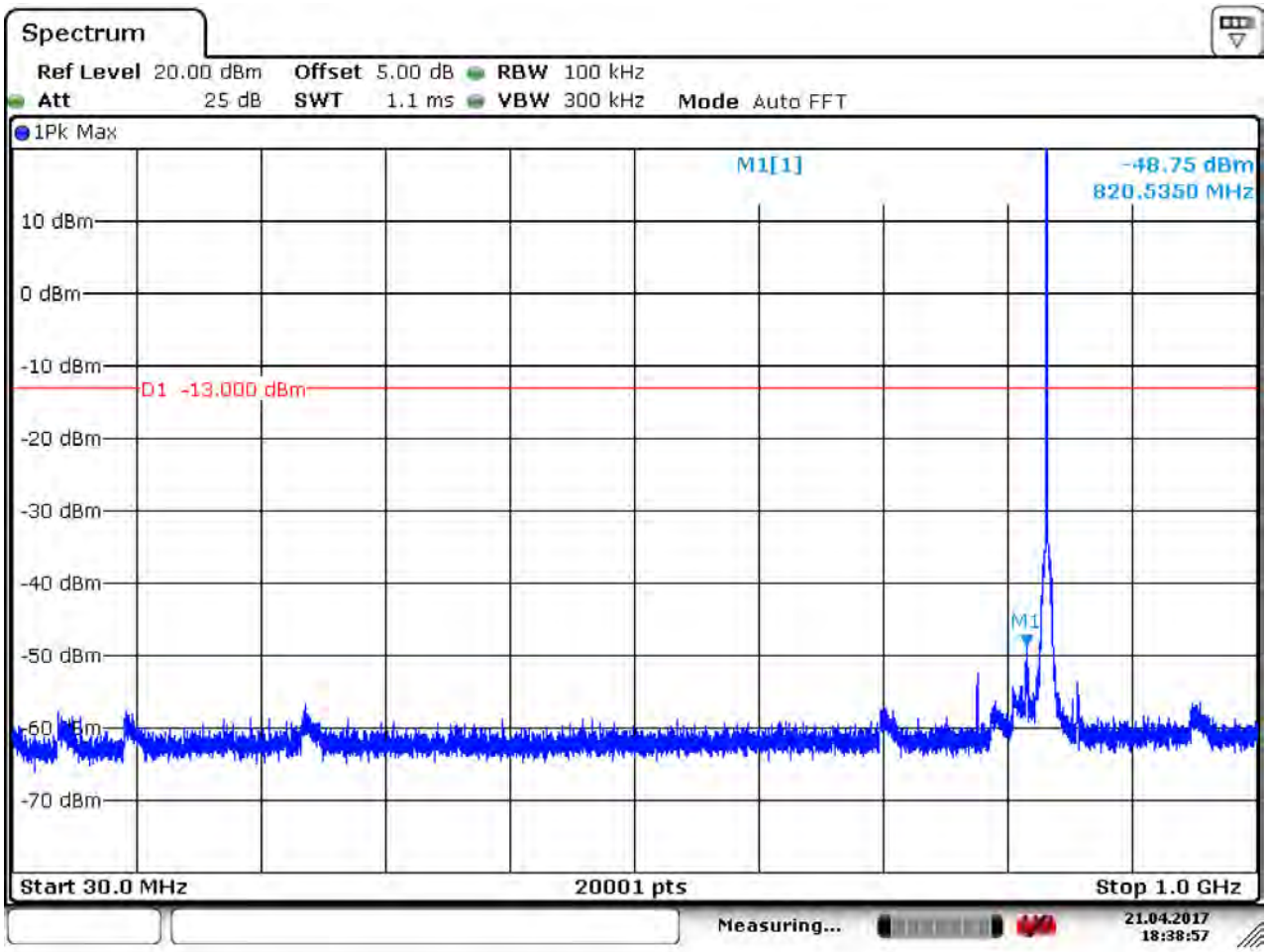


Date: 21.APR.2017 18:37:58

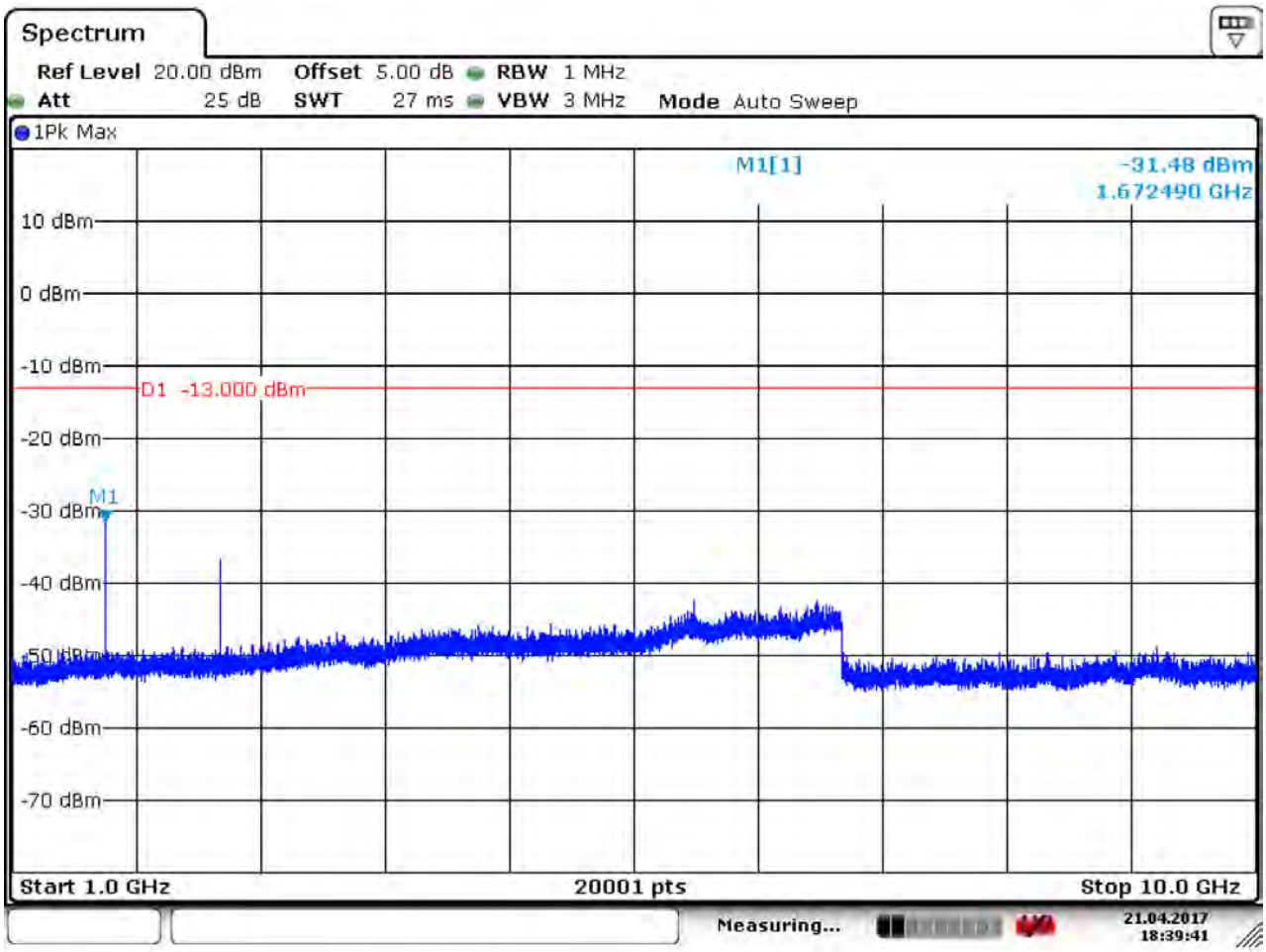


Date: 21.APR.2017 18:36:35

6.1.1.1.2 Test Channel = MCH

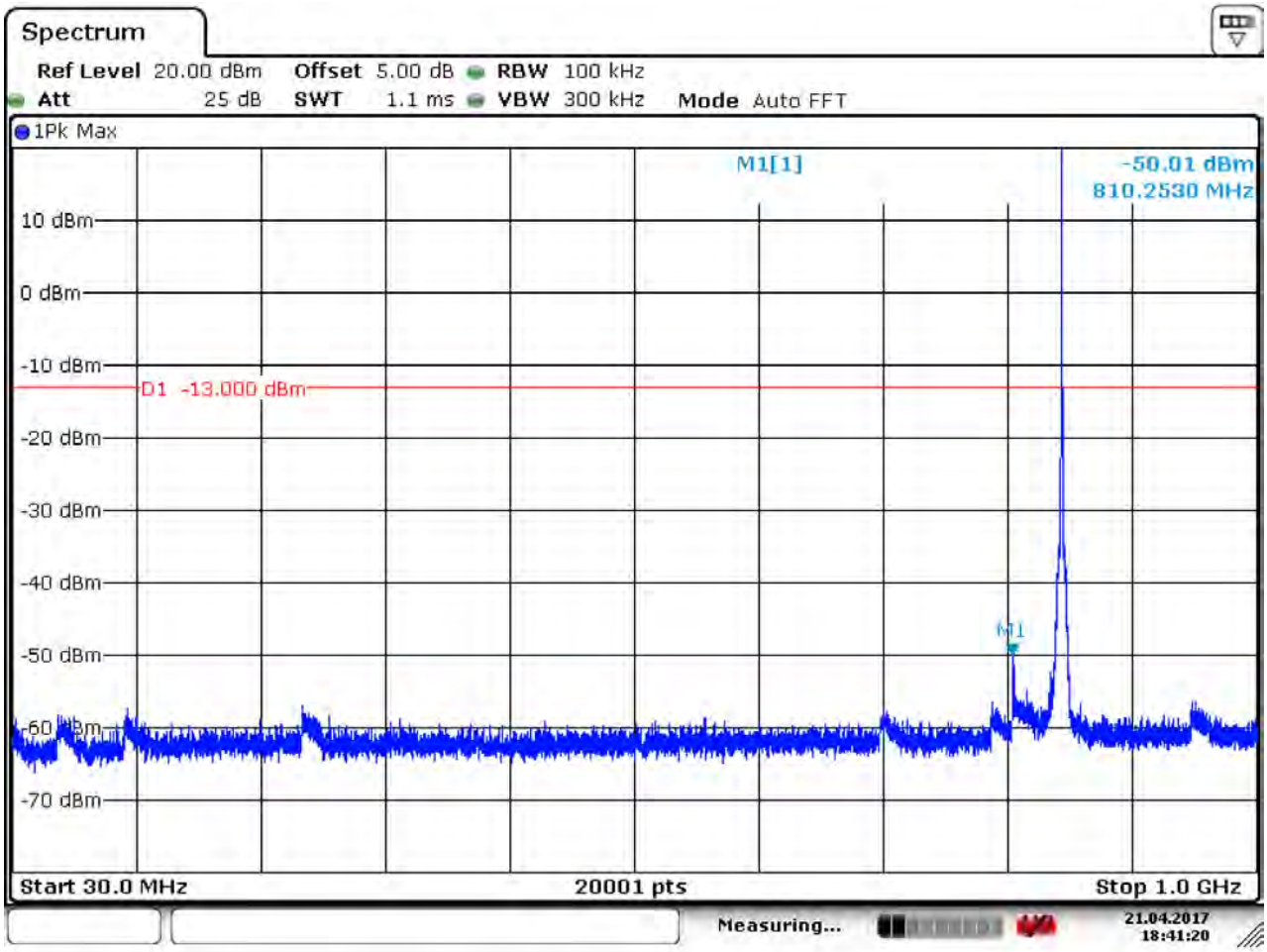


Date: 21.APR.2017 18:38:57

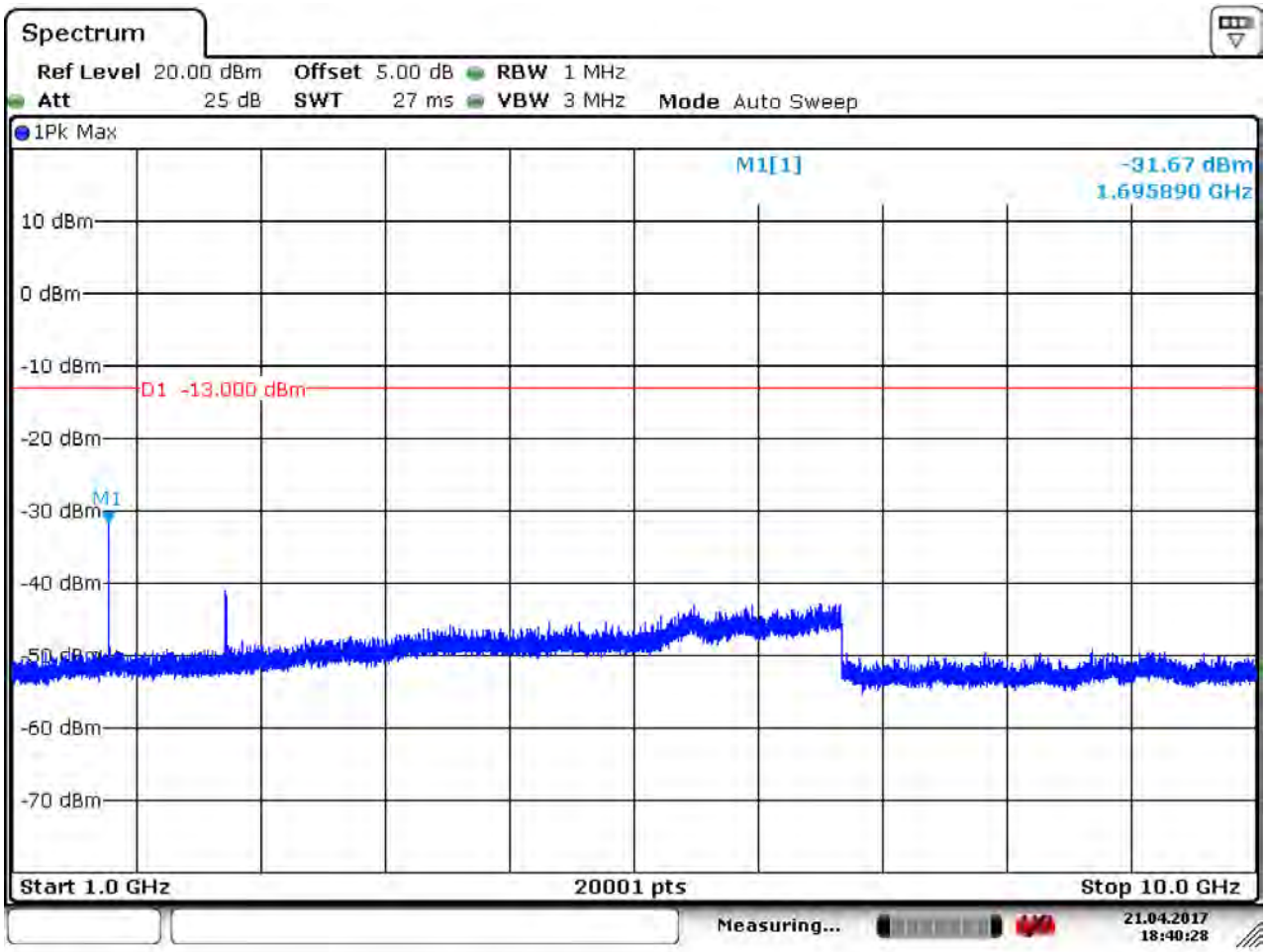


Date: 21.APR.2017 18:39:41

6.1.1.1.3 Test Channel = HCH



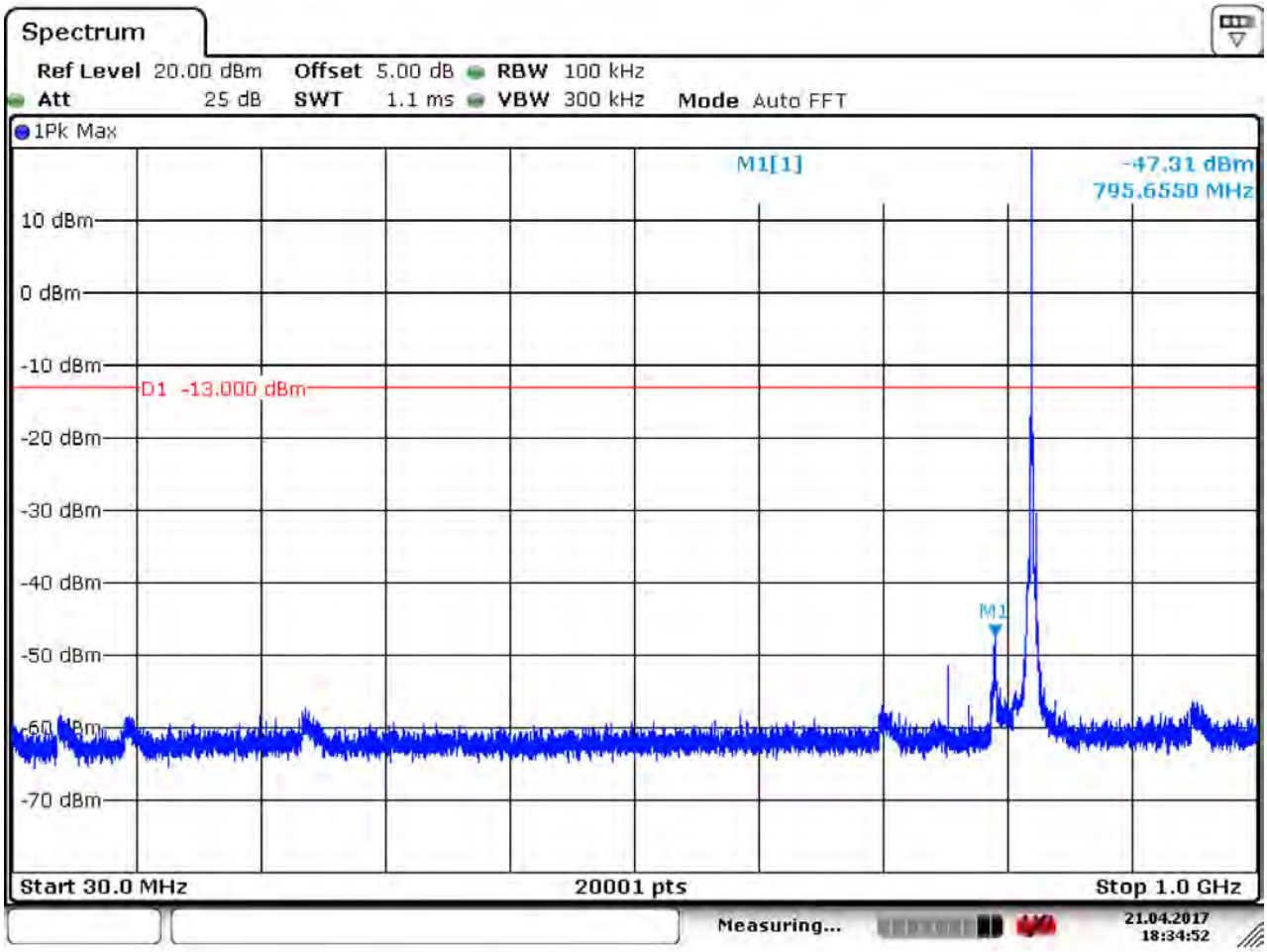
Date: 21.APR.2017 18:41:21



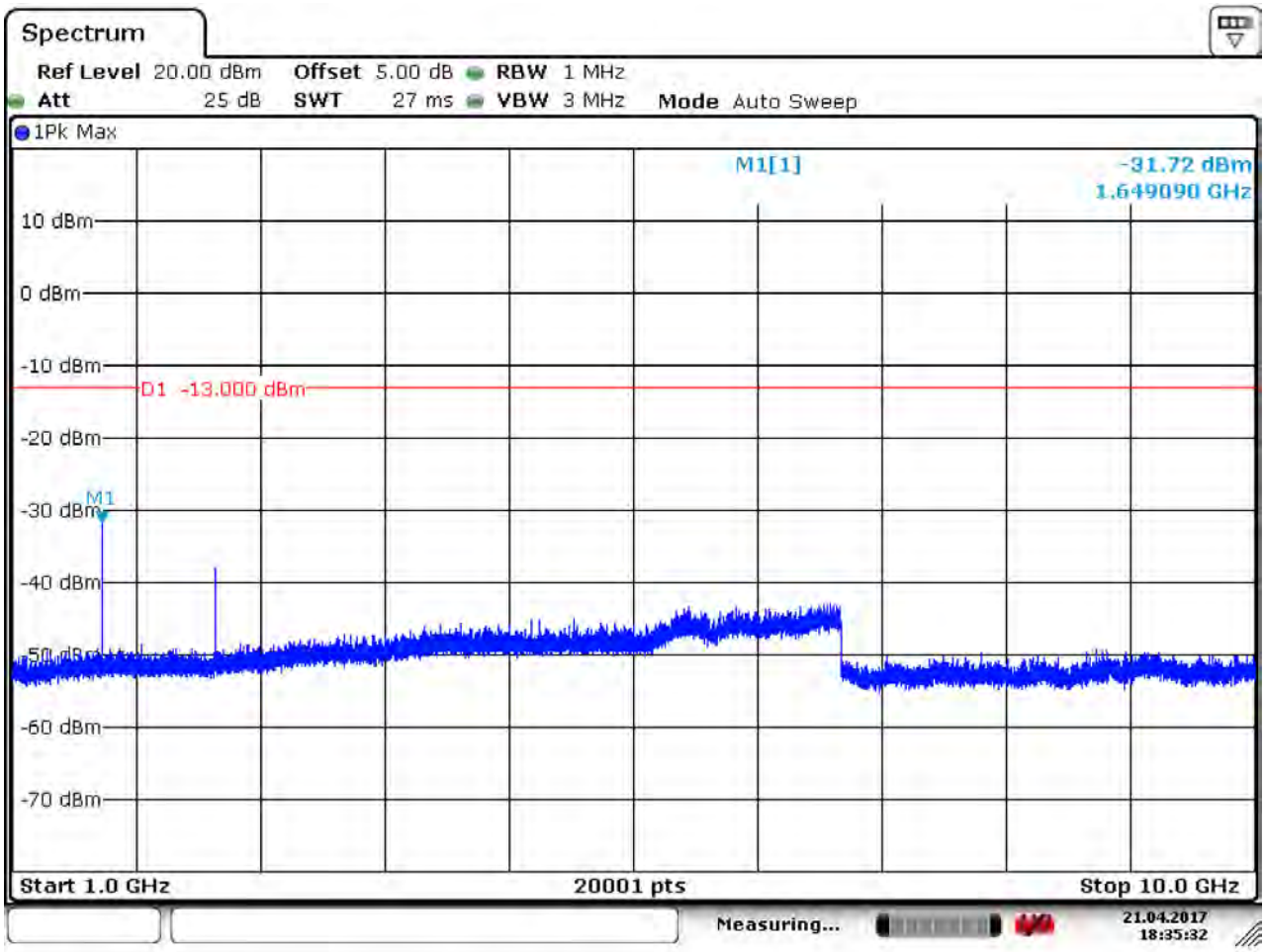
Date: 21.APR.2017 18:40:28

6.1.1.2 Test Mode = LTE / TM1 3MHz RB1#0

6.1.1.2.1 Test Channel = LCH

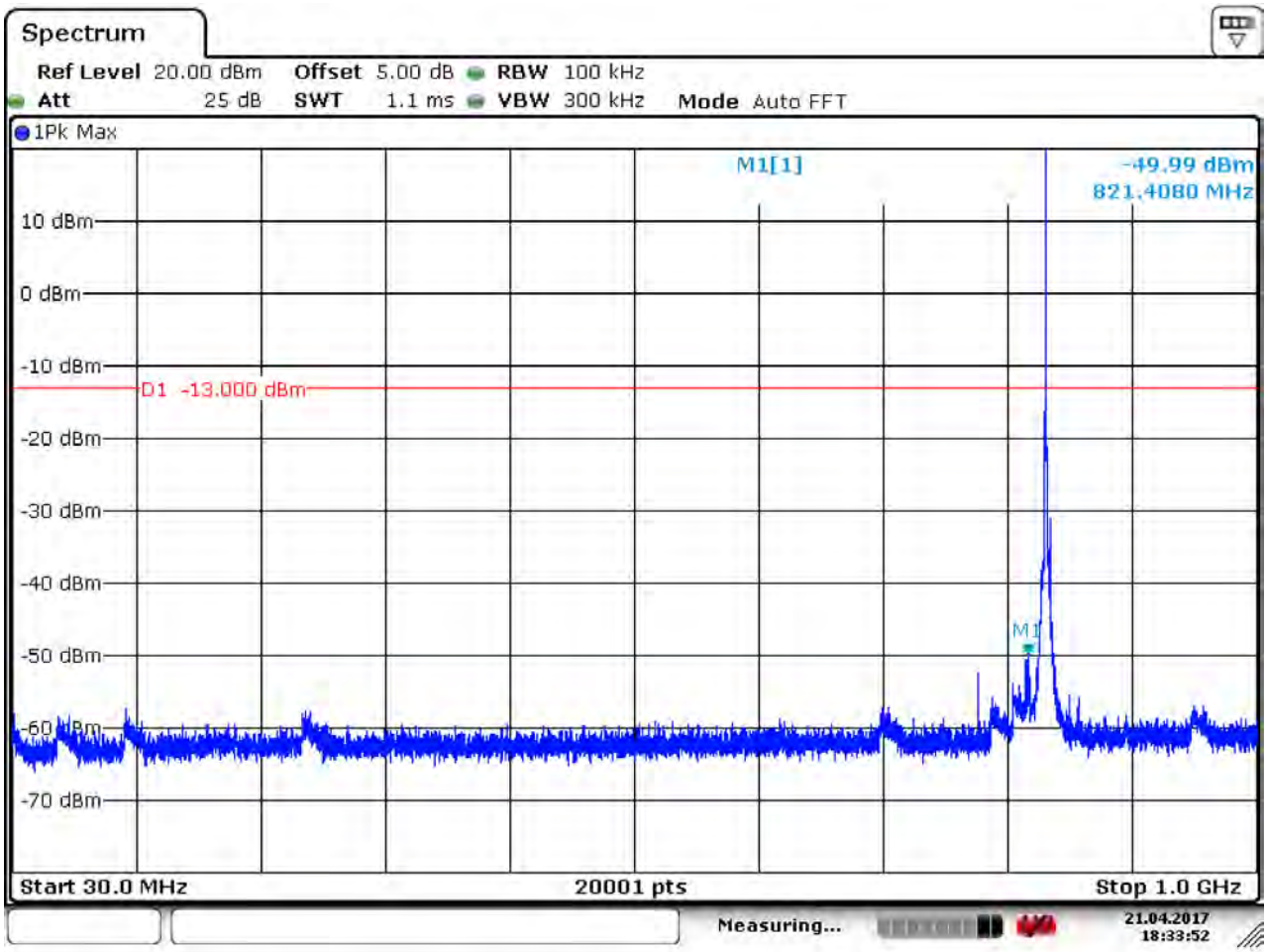


Date: 21.APR.2017 18:34:52

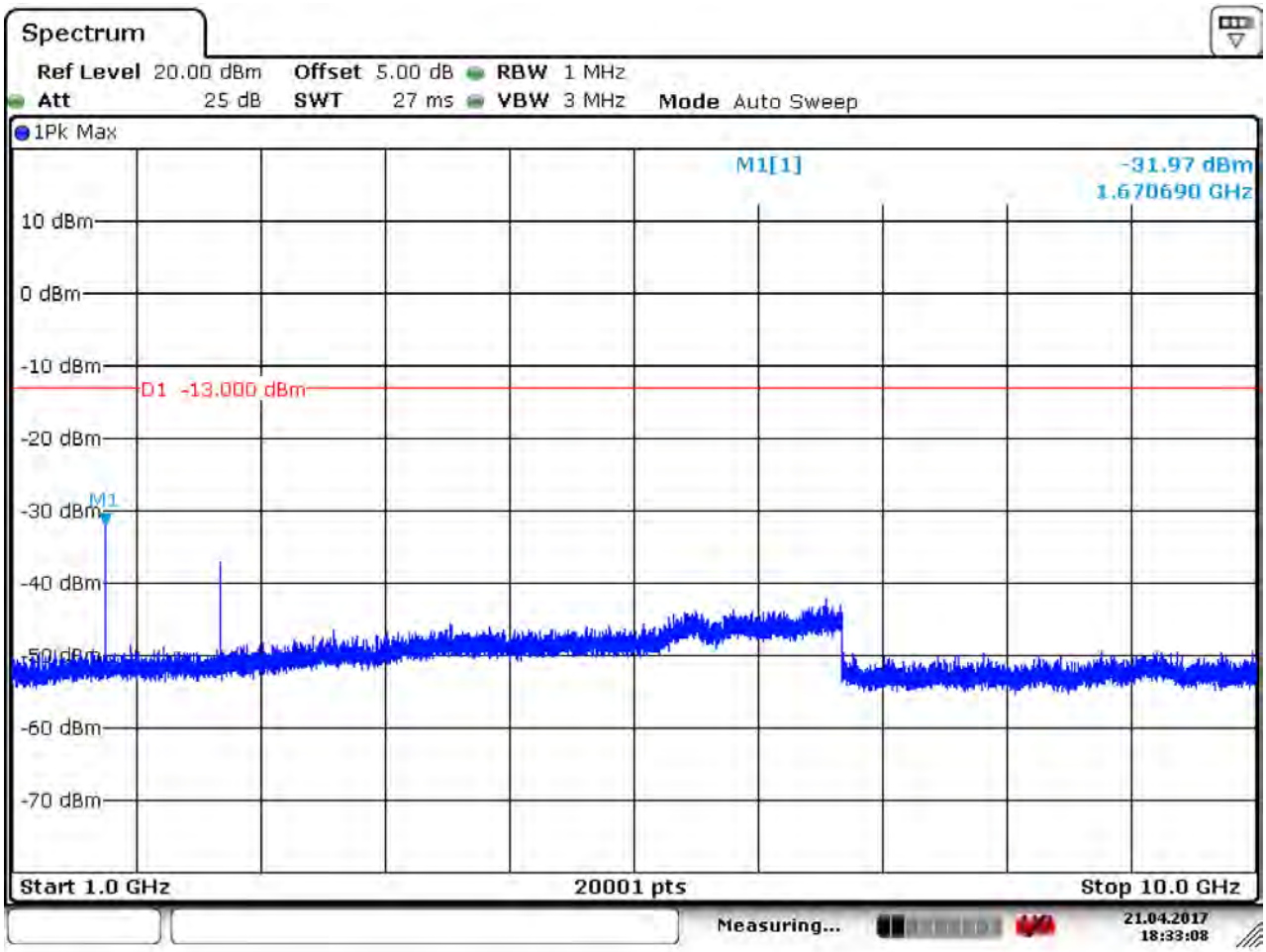


Date: 21.APR.2017 18:35:32

6.1.1.2.2 Test Channel = MCH

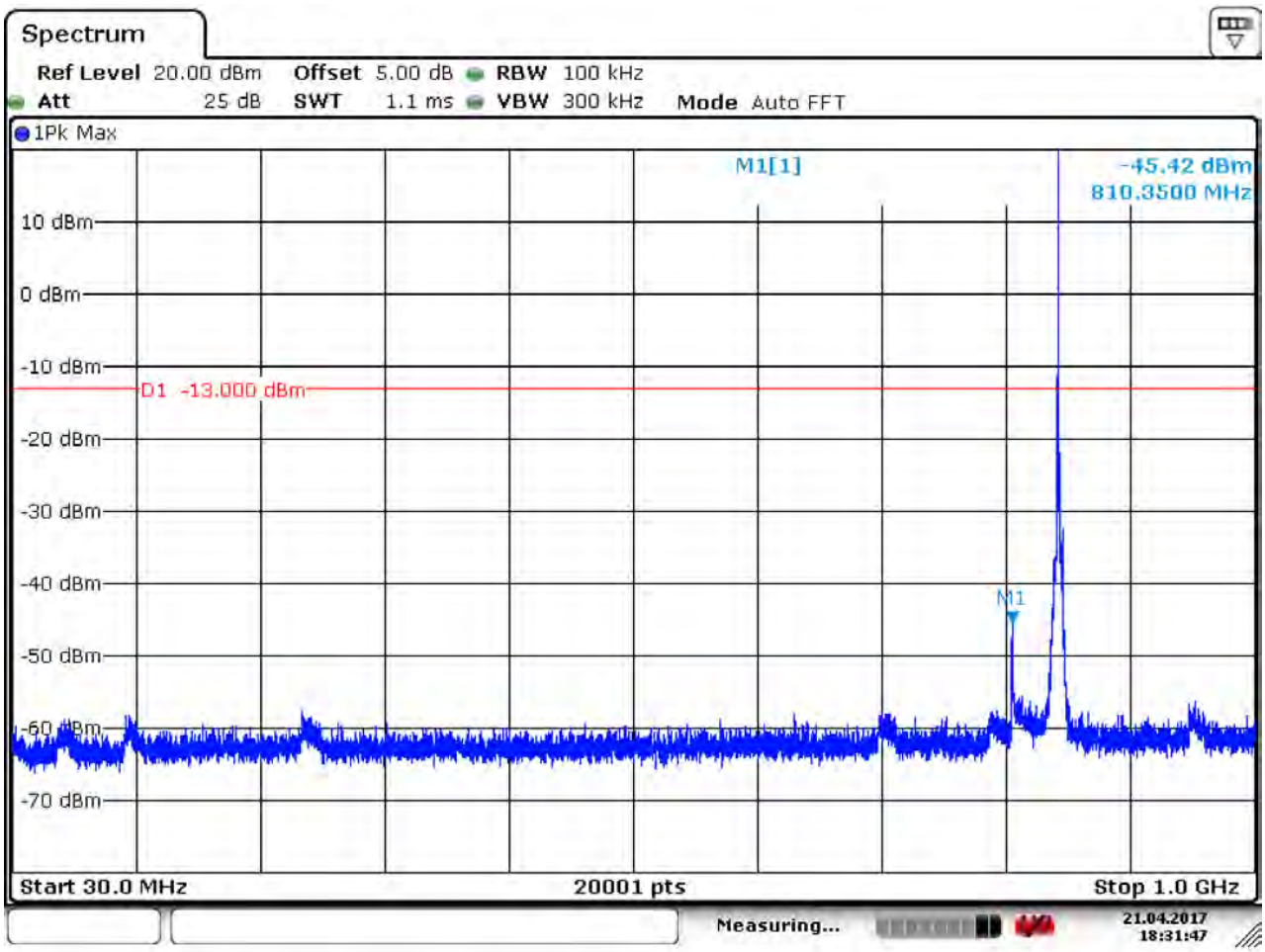


Date: 21.APR.2017 18:33:52

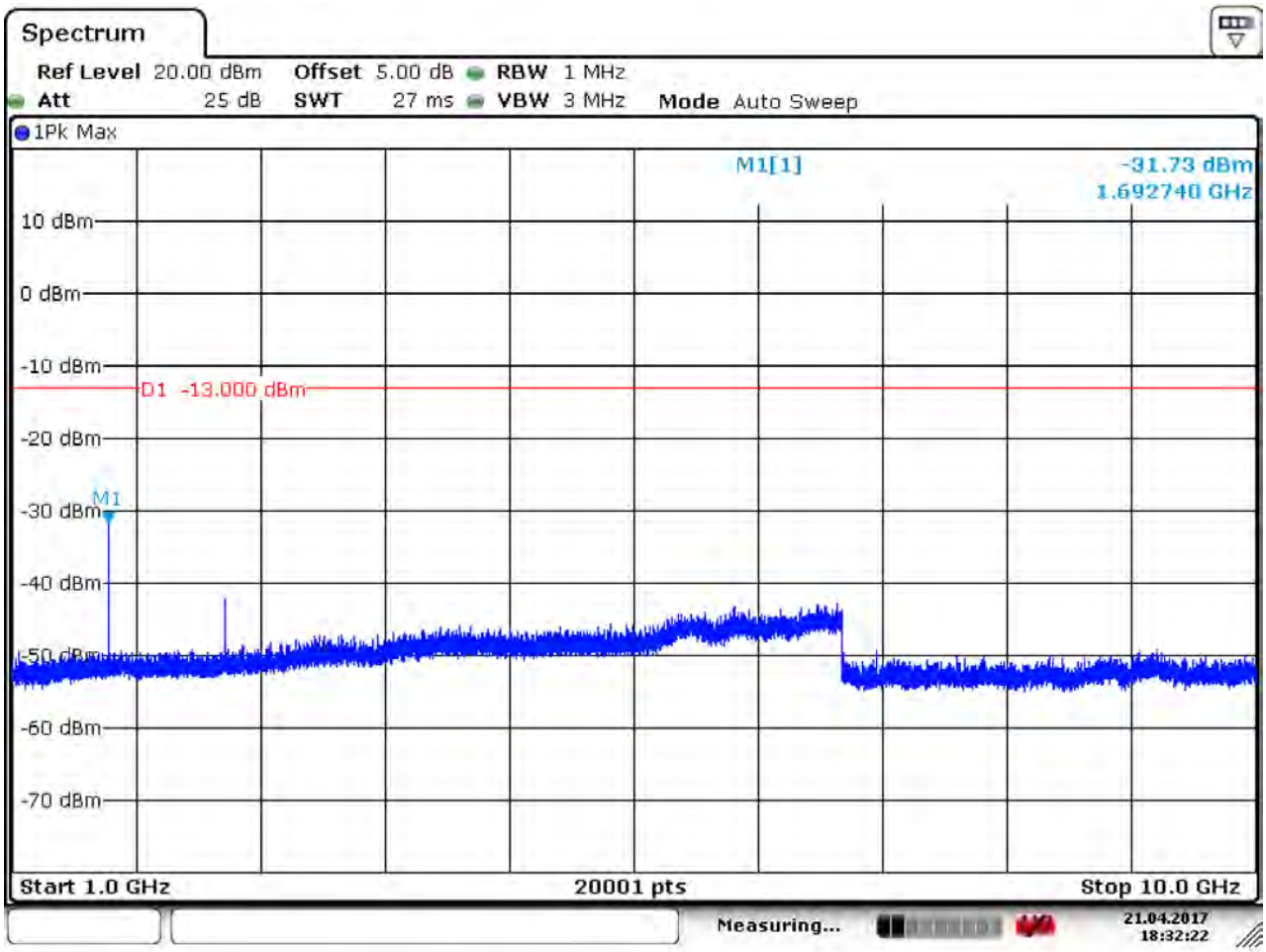


Date: 21.APR.2017 18:33:08

6.1.1.2.3 Test Channel = HCH



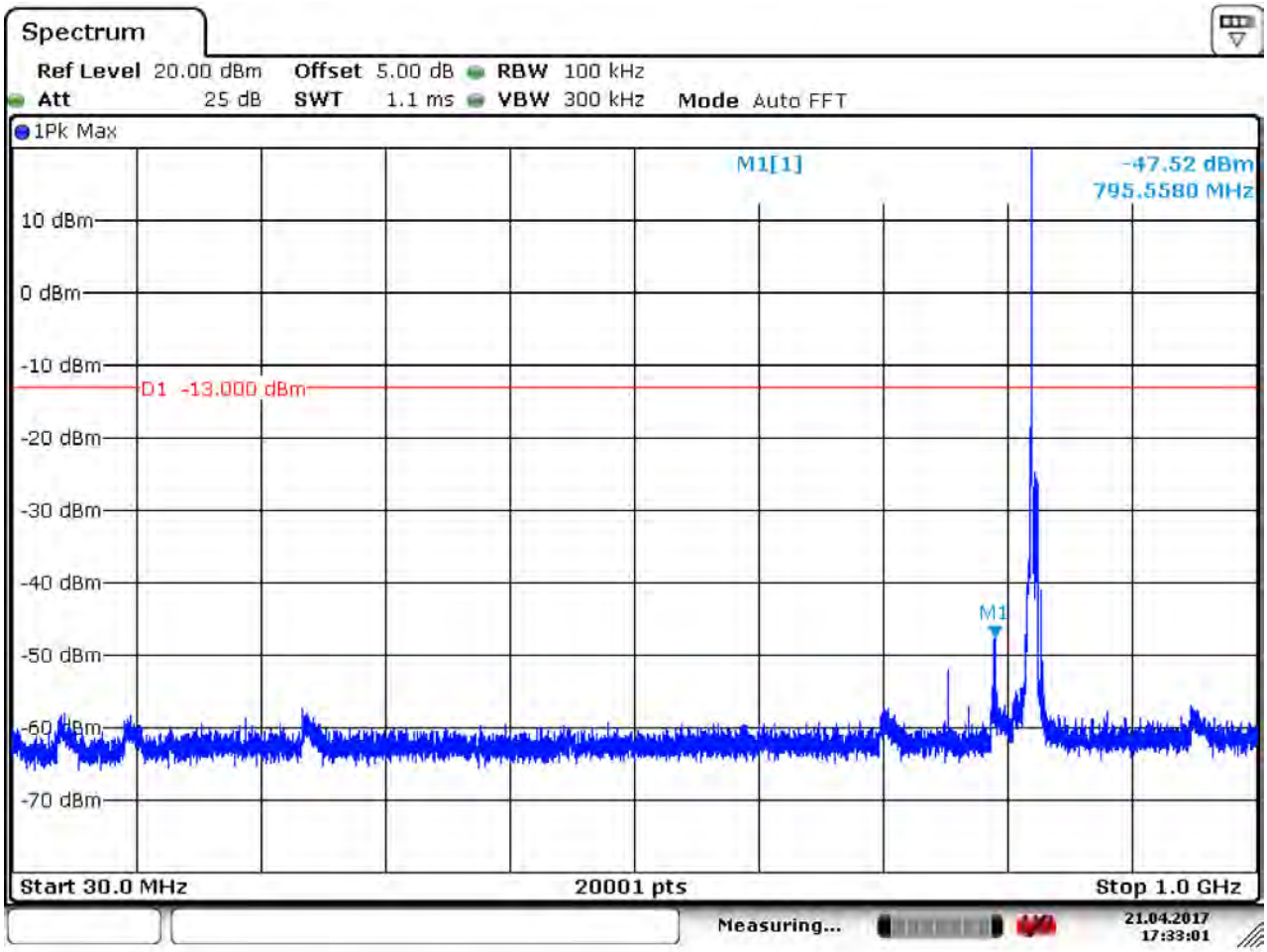
Date: 21.APR.2017 18:31:47



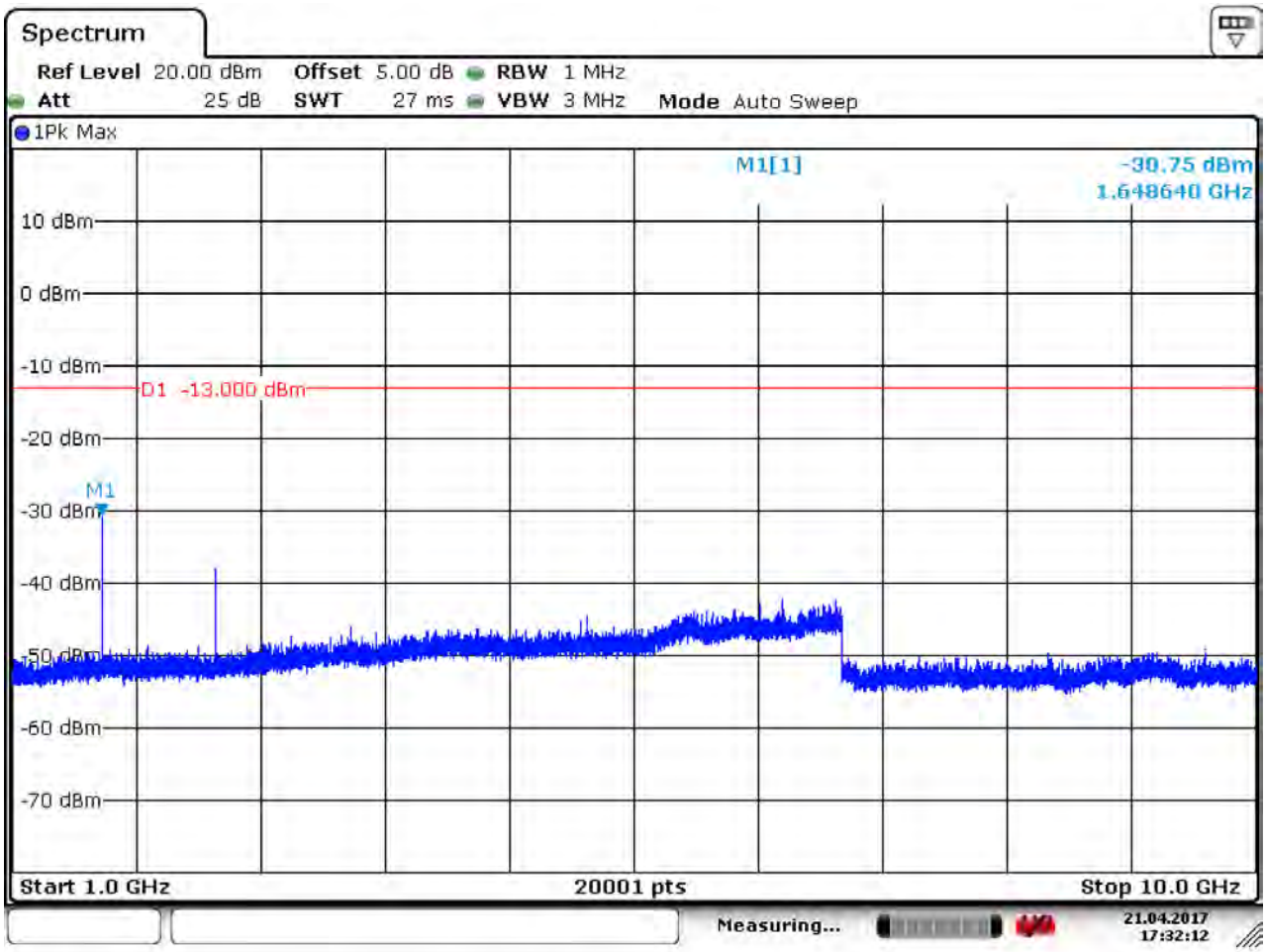
Date: 21.APR.2017 18:32:22

6.1.1.3 Test Mode = LTE / TM1 5MHz RB1#0

6.1.1.3.1 Test Channel = LCH

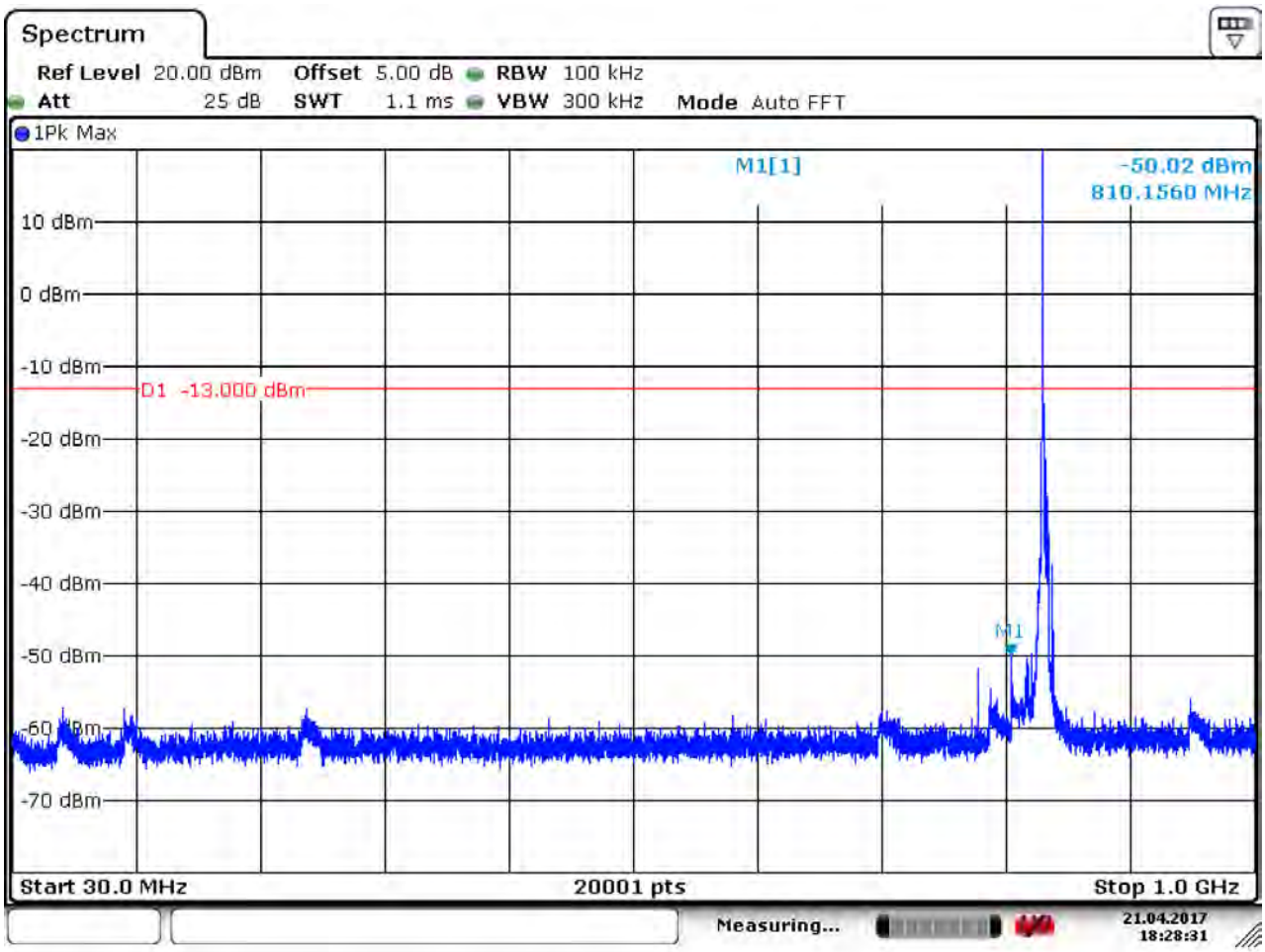


Date: 21.APR.2017 17:33:01

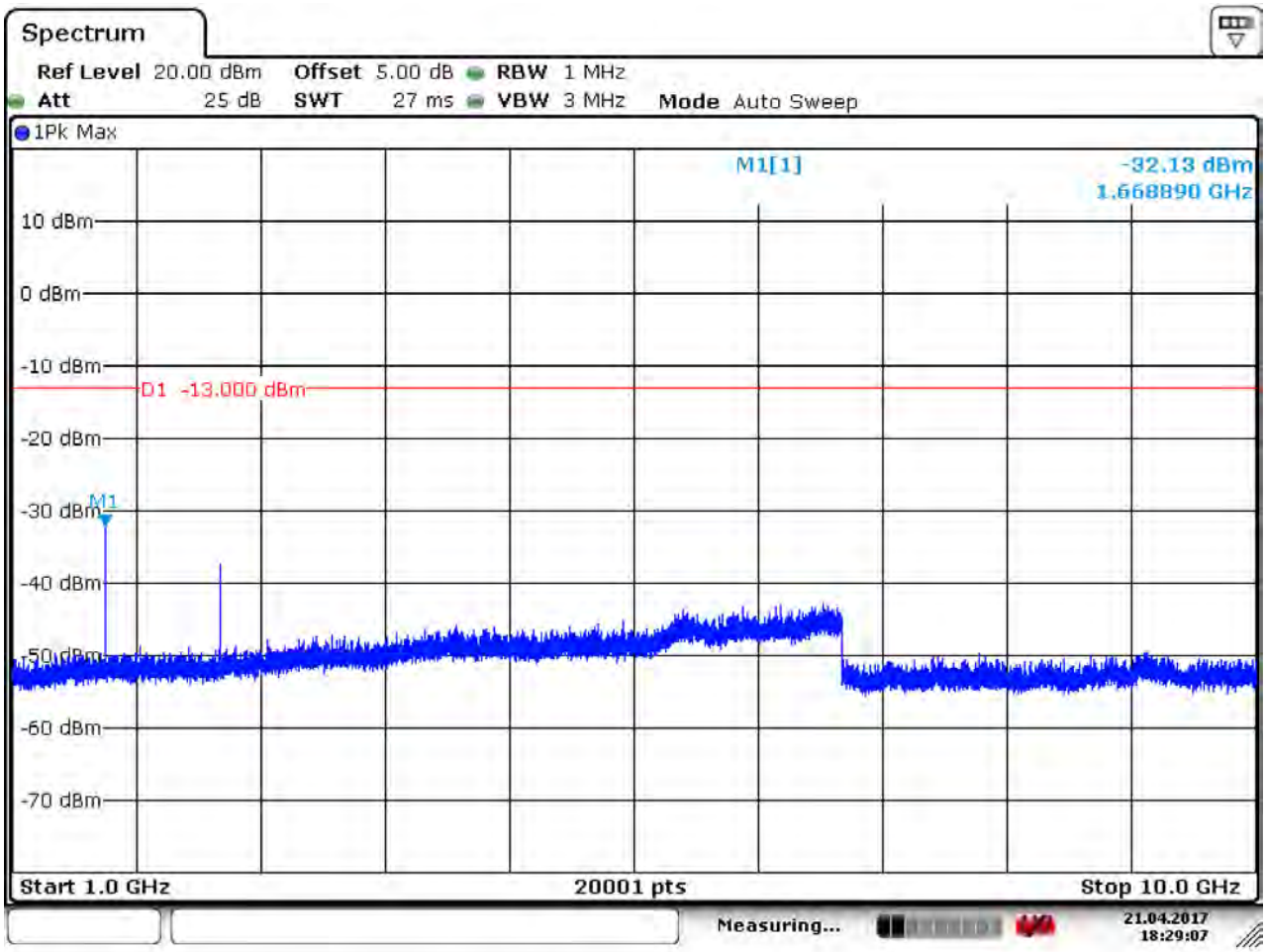


Date: 21.APR.2017 17:32:12

6.1.1.3.2 Test Channel = MCH

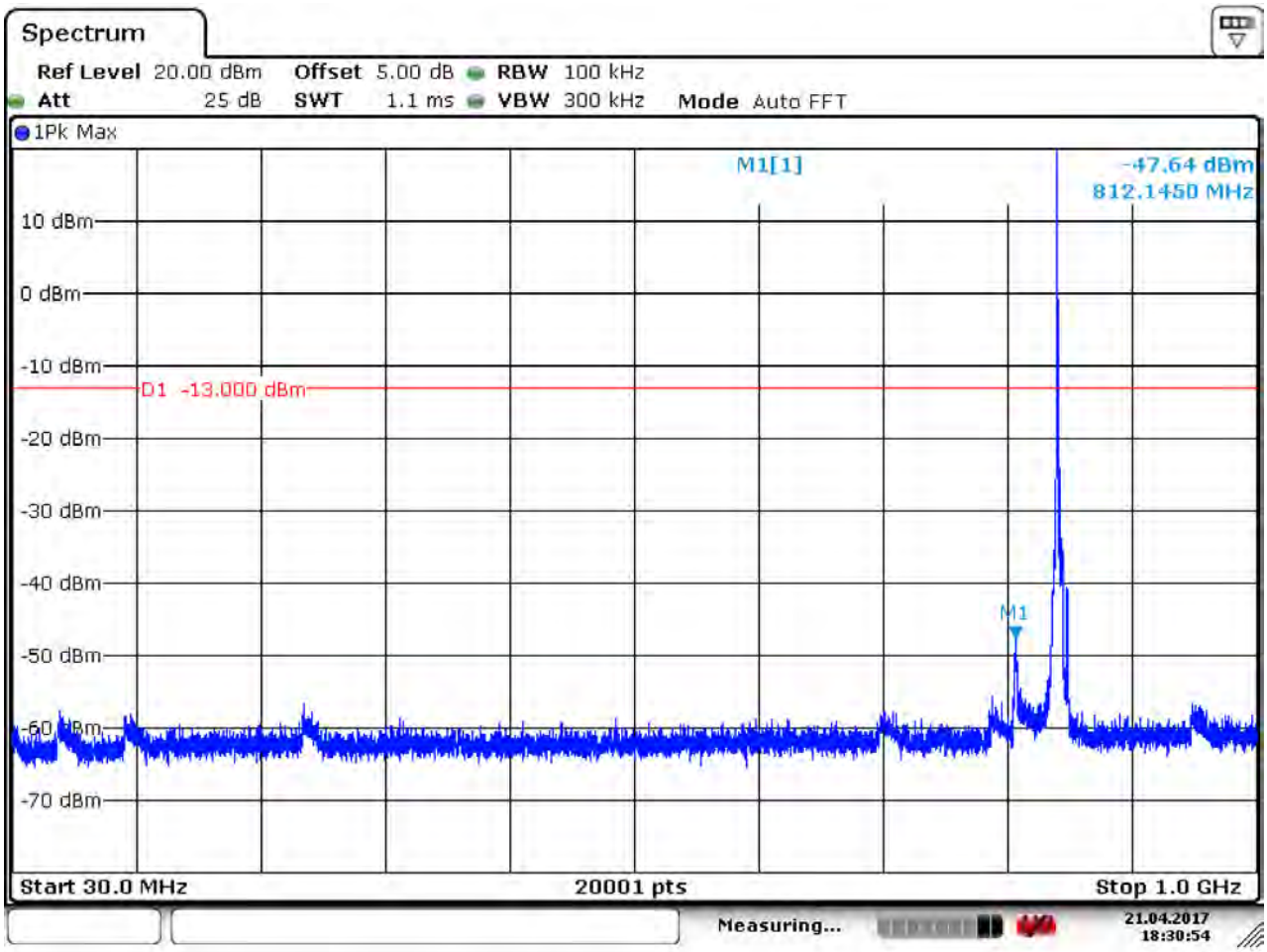


Date: 21.APR.2017 18:28:32

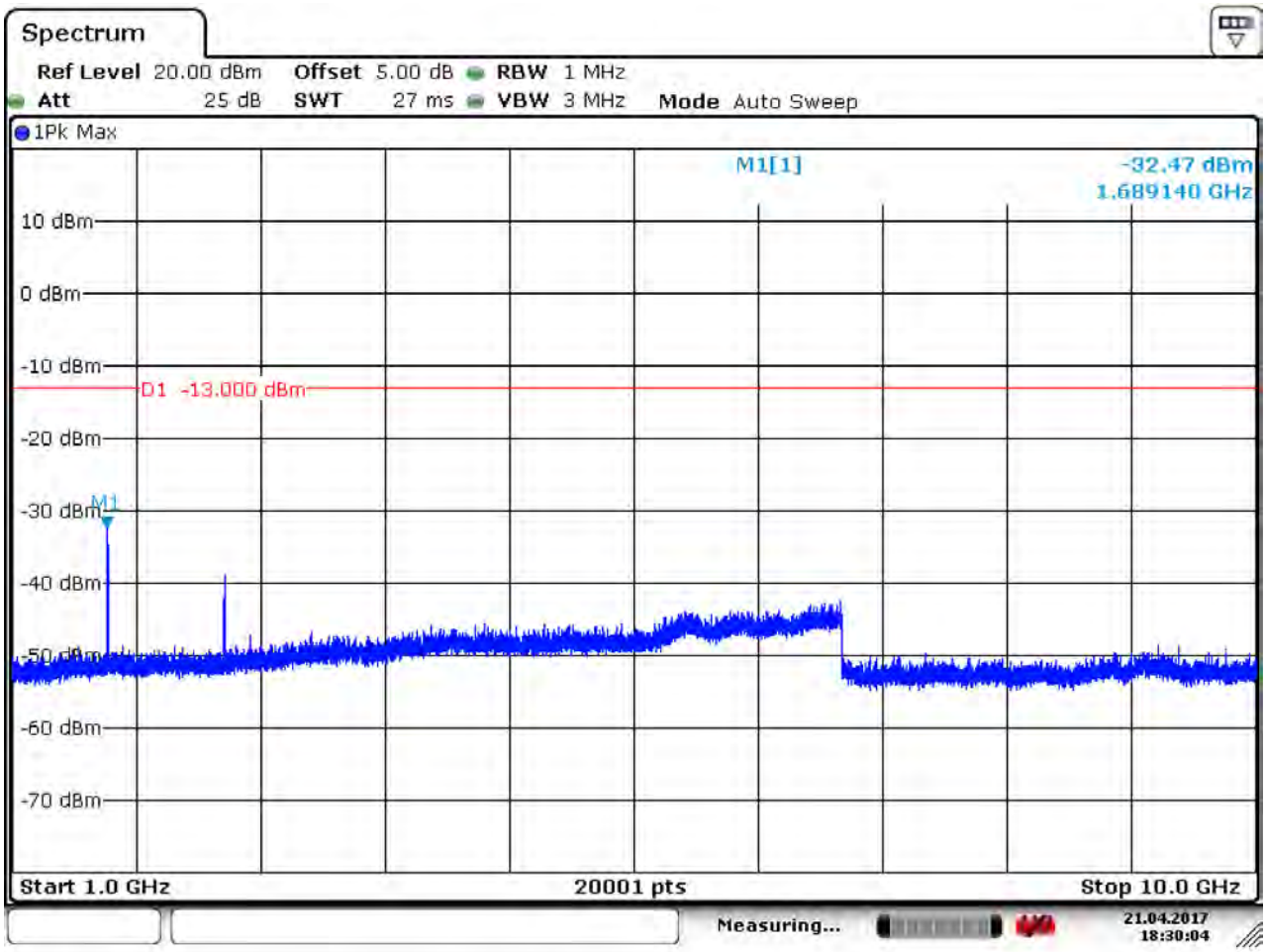


Date: 21.APR.2017 18:29:07

6.1.1.3.3 Test Channel = HCH



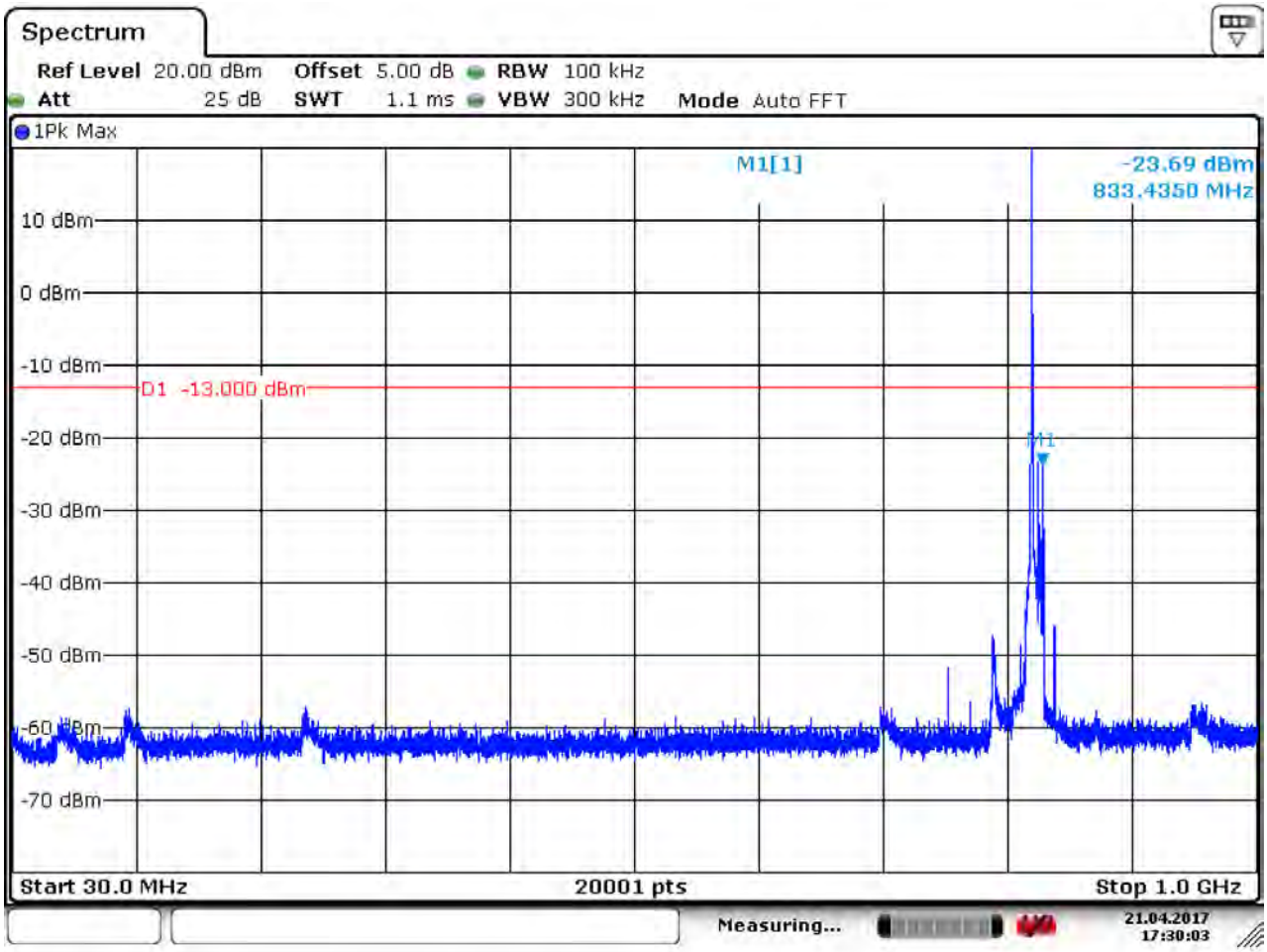
Date: 21.APR.2017 18:30:54



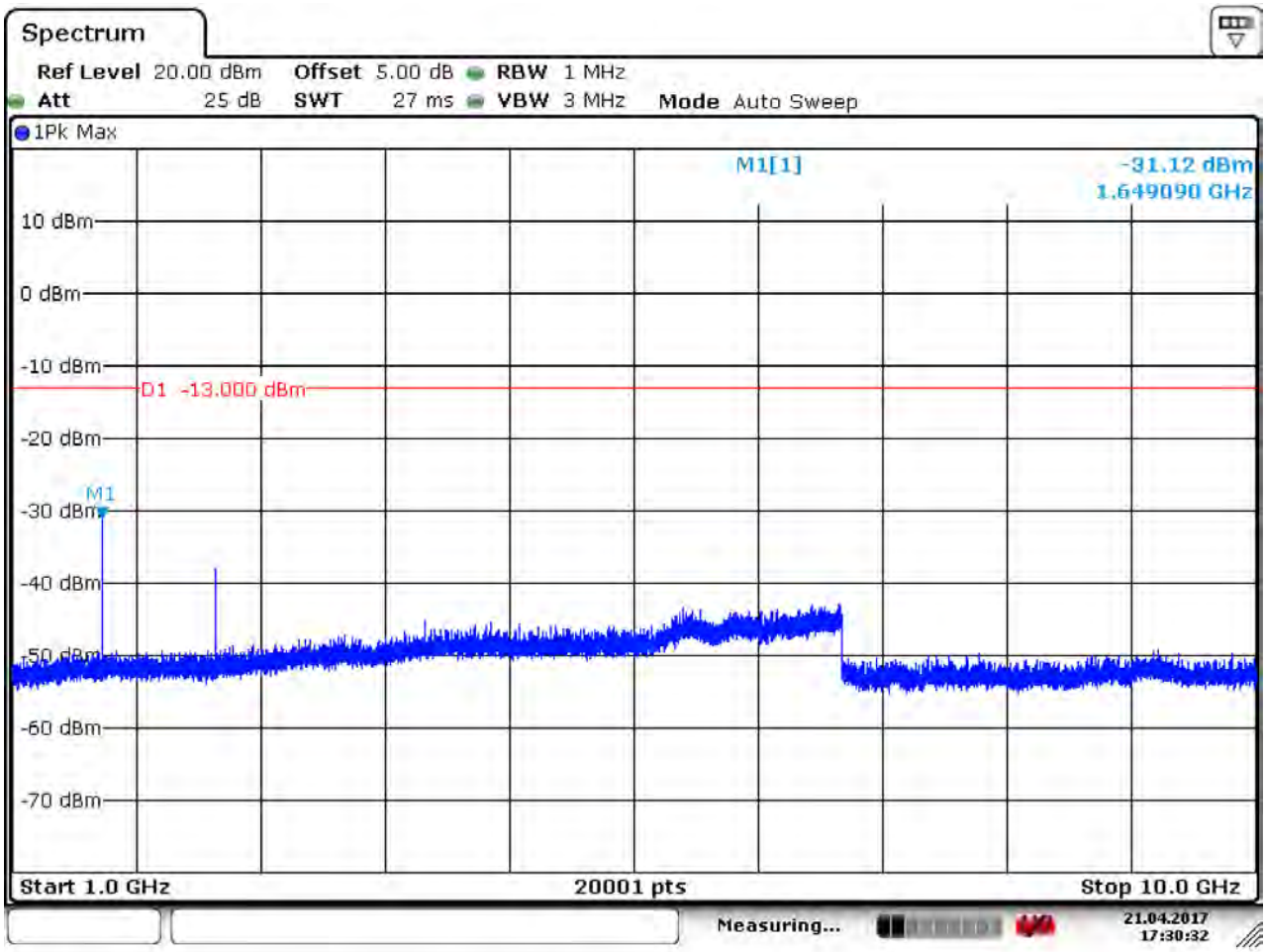
Date: 21.APR.2017 18:30:04

6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = LCH

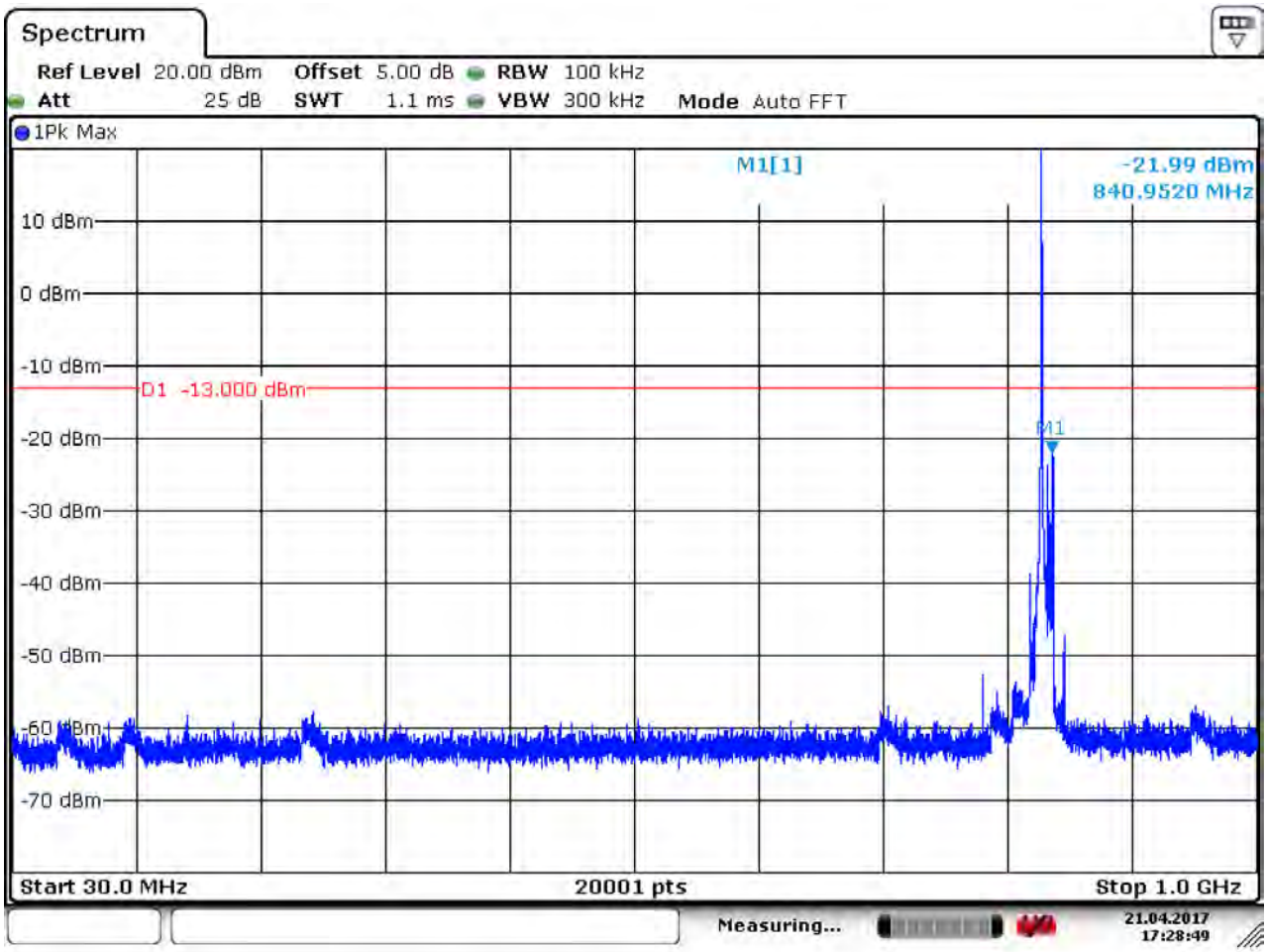


Date: 21.APR.2017 17:30:03

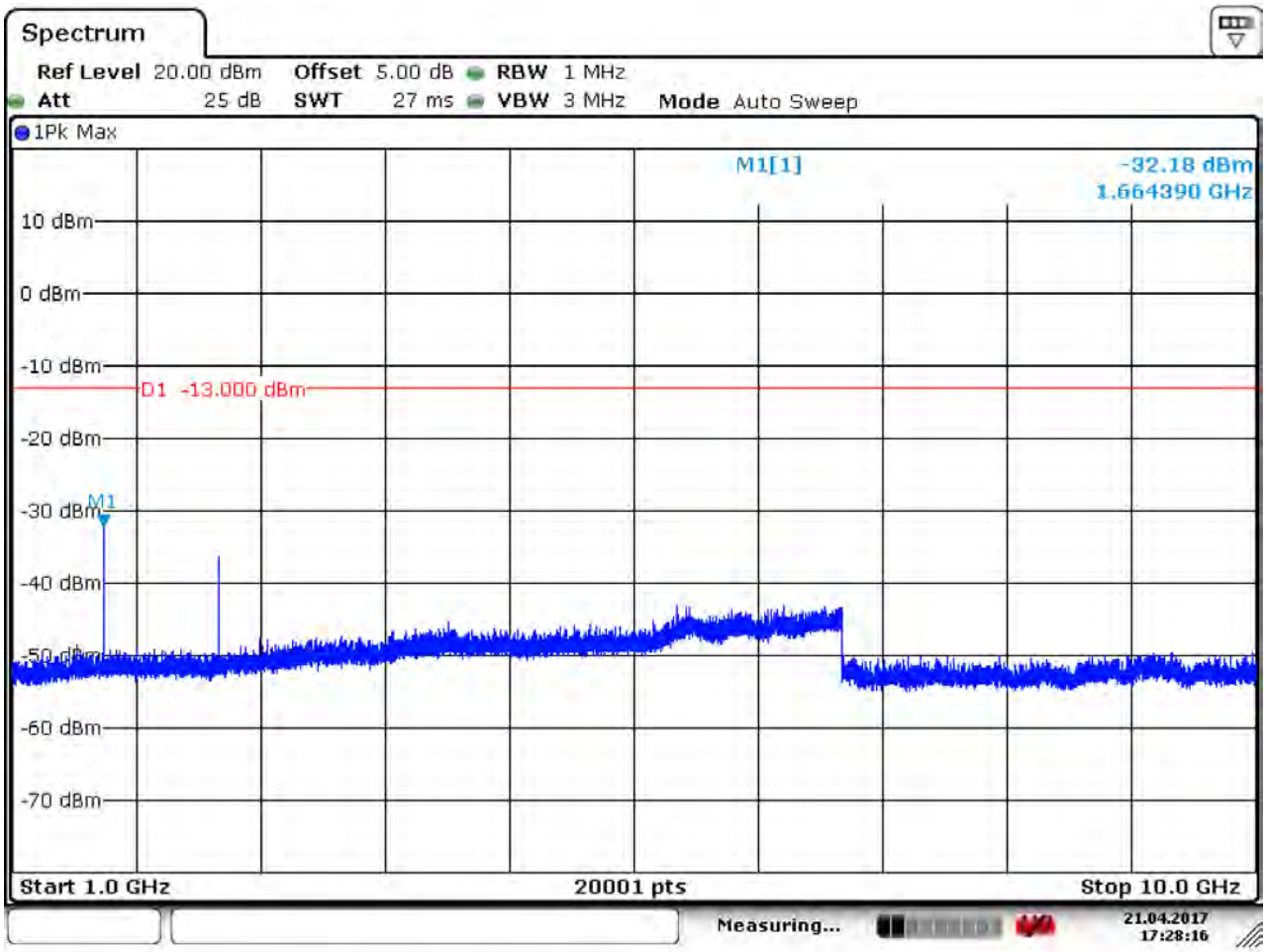


Date: 21.APR.2017 17:30:33

6.1.1.4.2 Test Channel = MCH

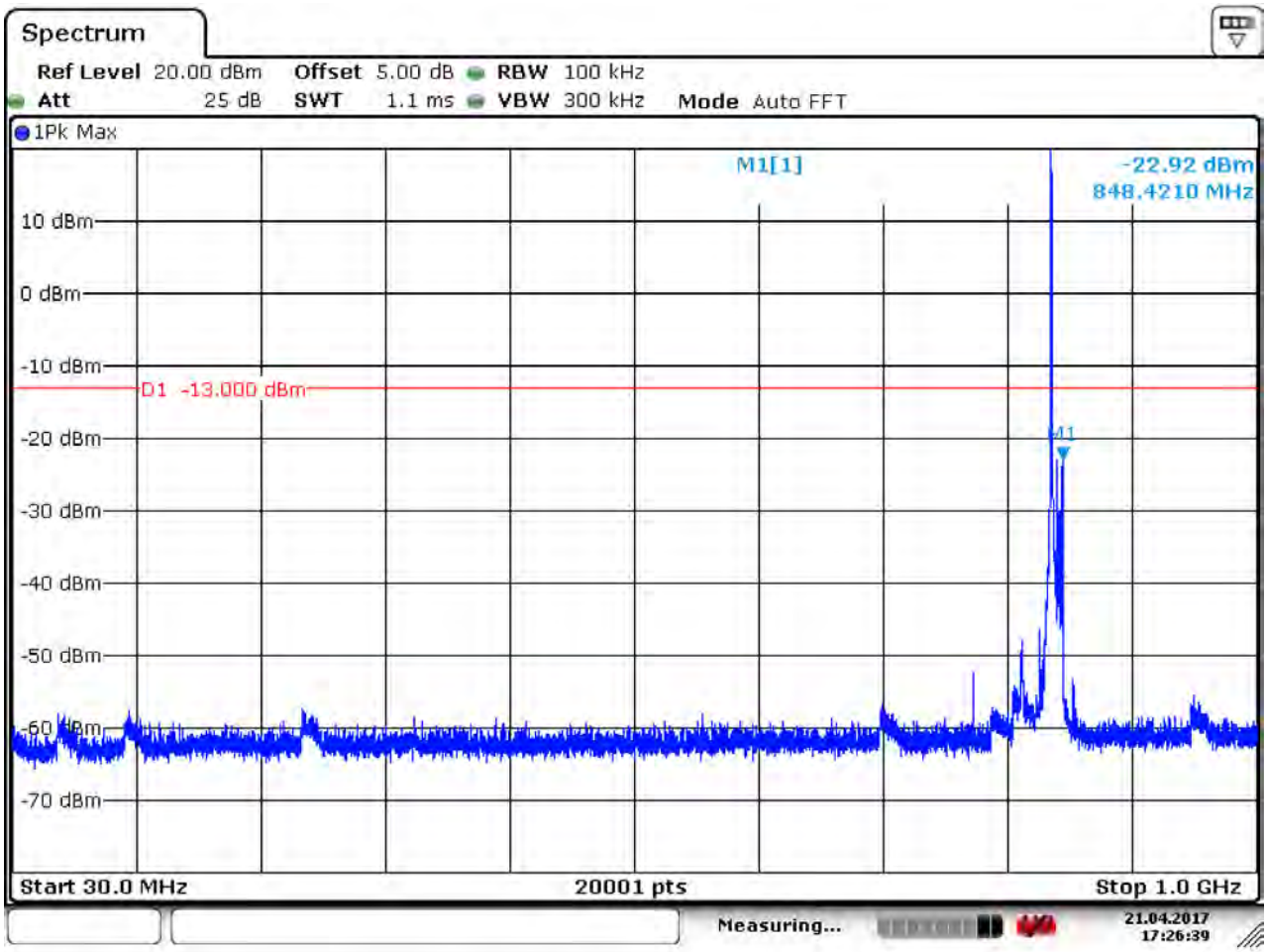


Date: 21.APR.2017 17:28:49

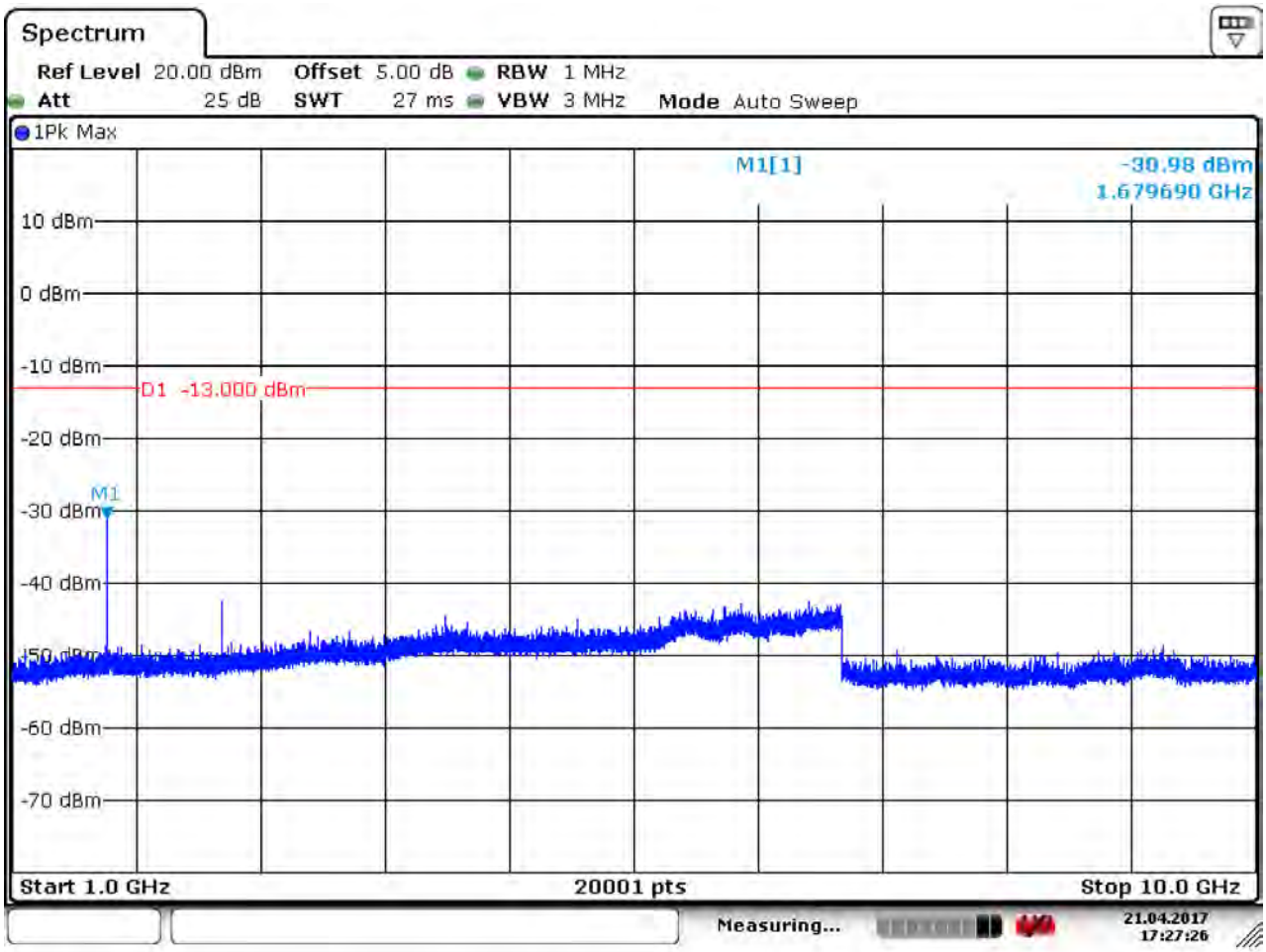


Date: 21.APR.2017 17:28:17

6.1.1.4.3 Test Channel = HCH



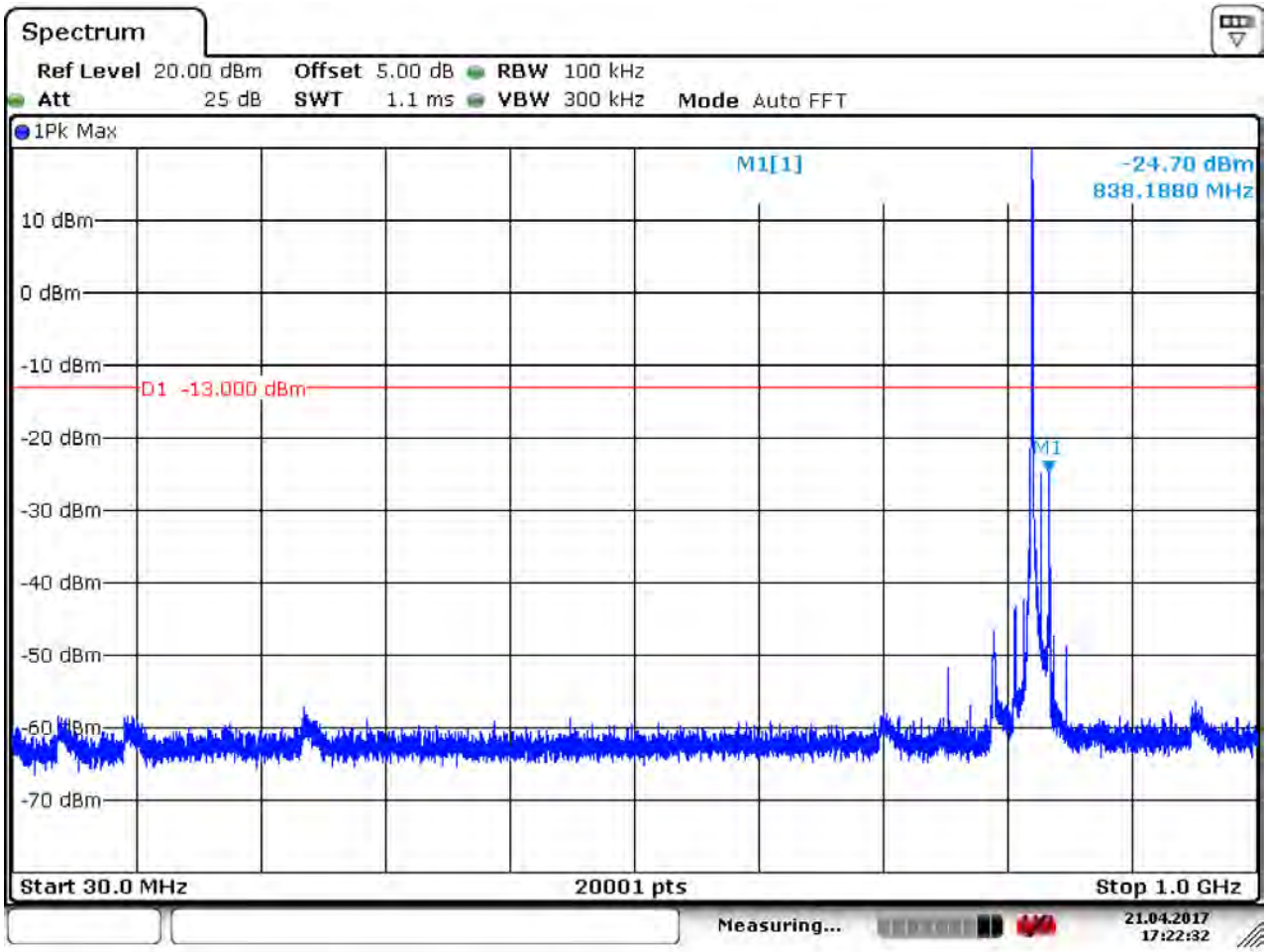
Date: 21.APR.2017 17:26:40



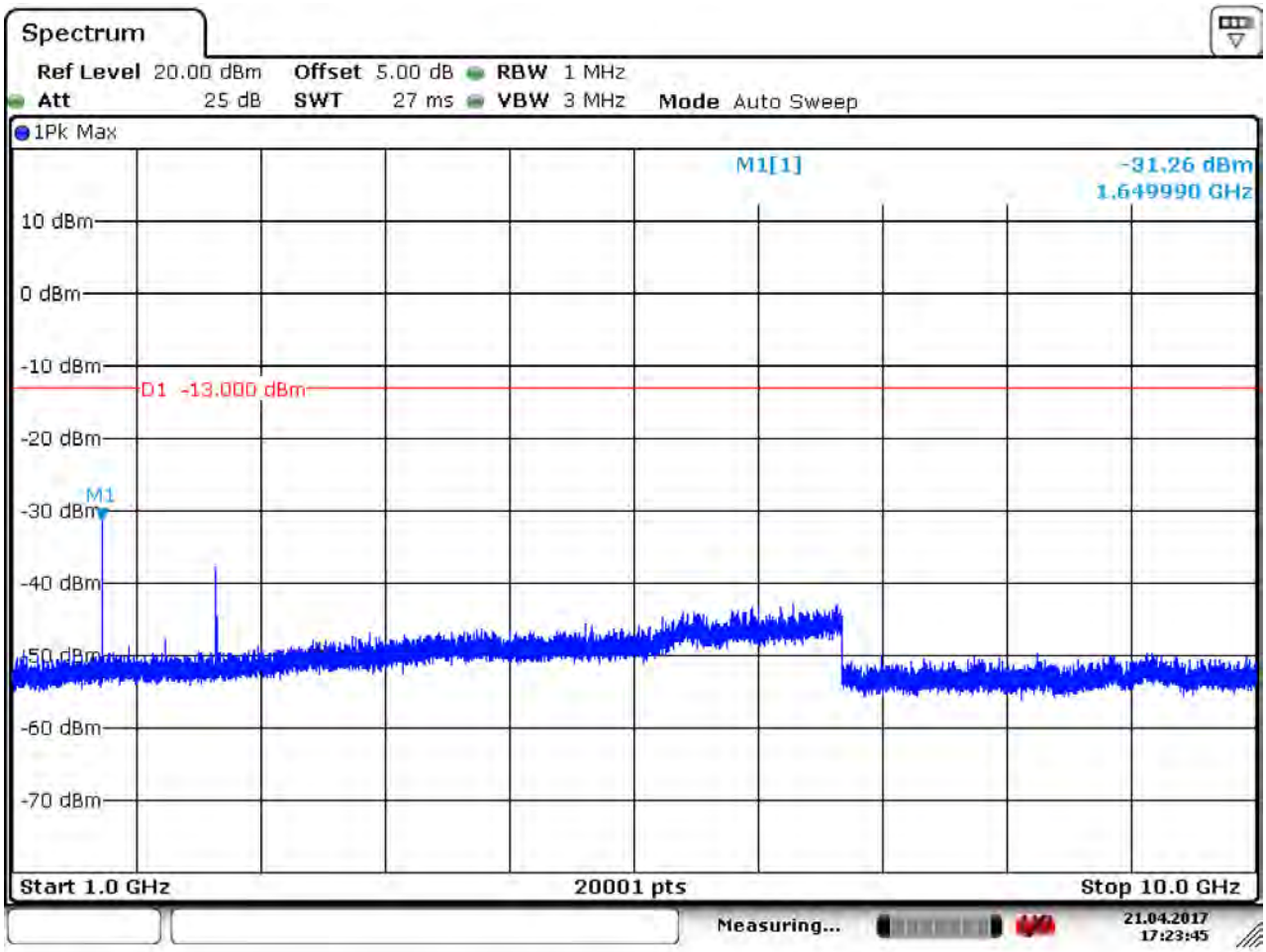
Date: 21.APR.2017 17:27:26

6.1.1.5 Test Mode = LTE / TM1 15MHz RB1#0

6.1.1.5.1 Test Channel = LCH

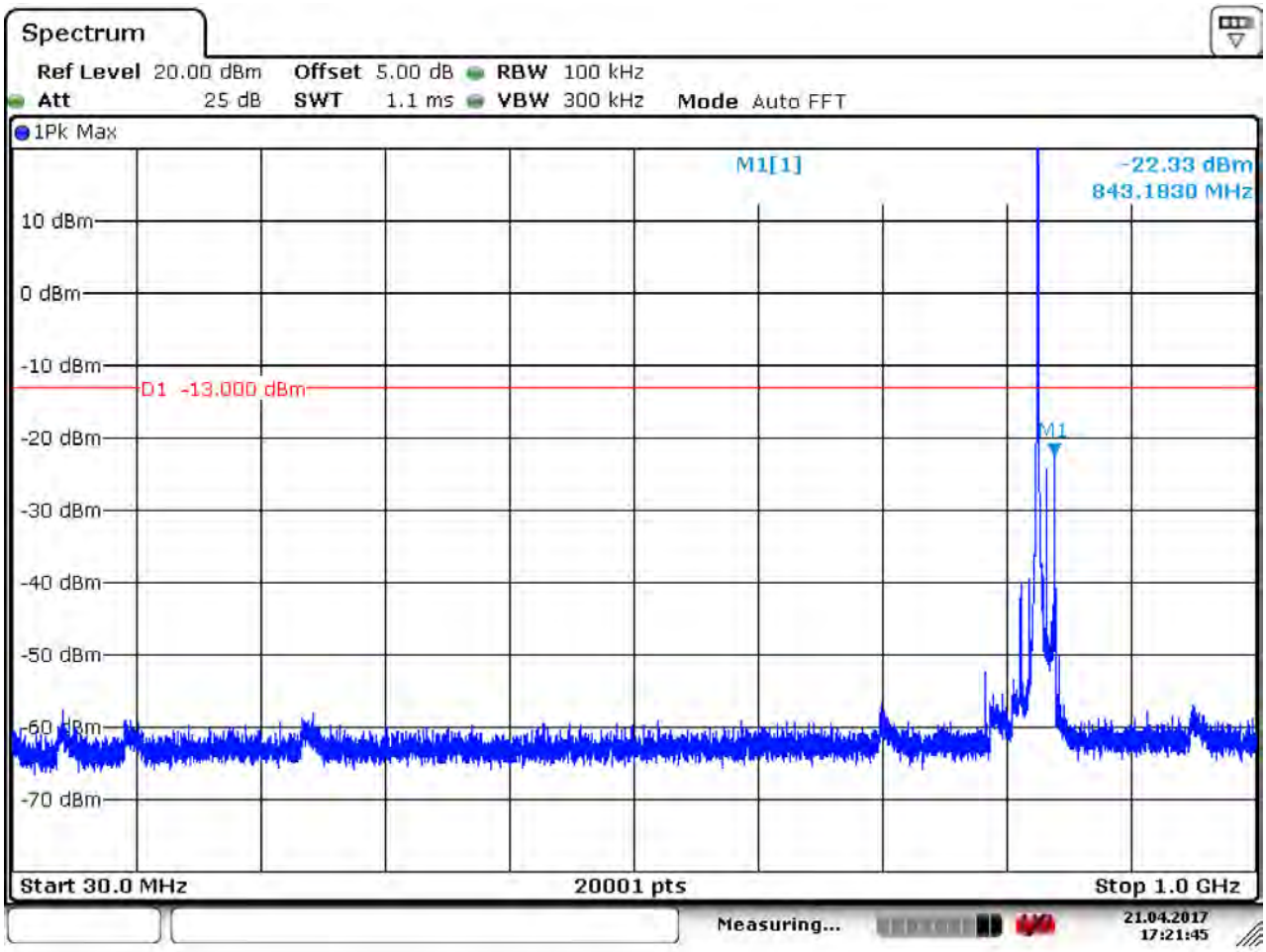


Date: 21.APR.2017 17:22:32

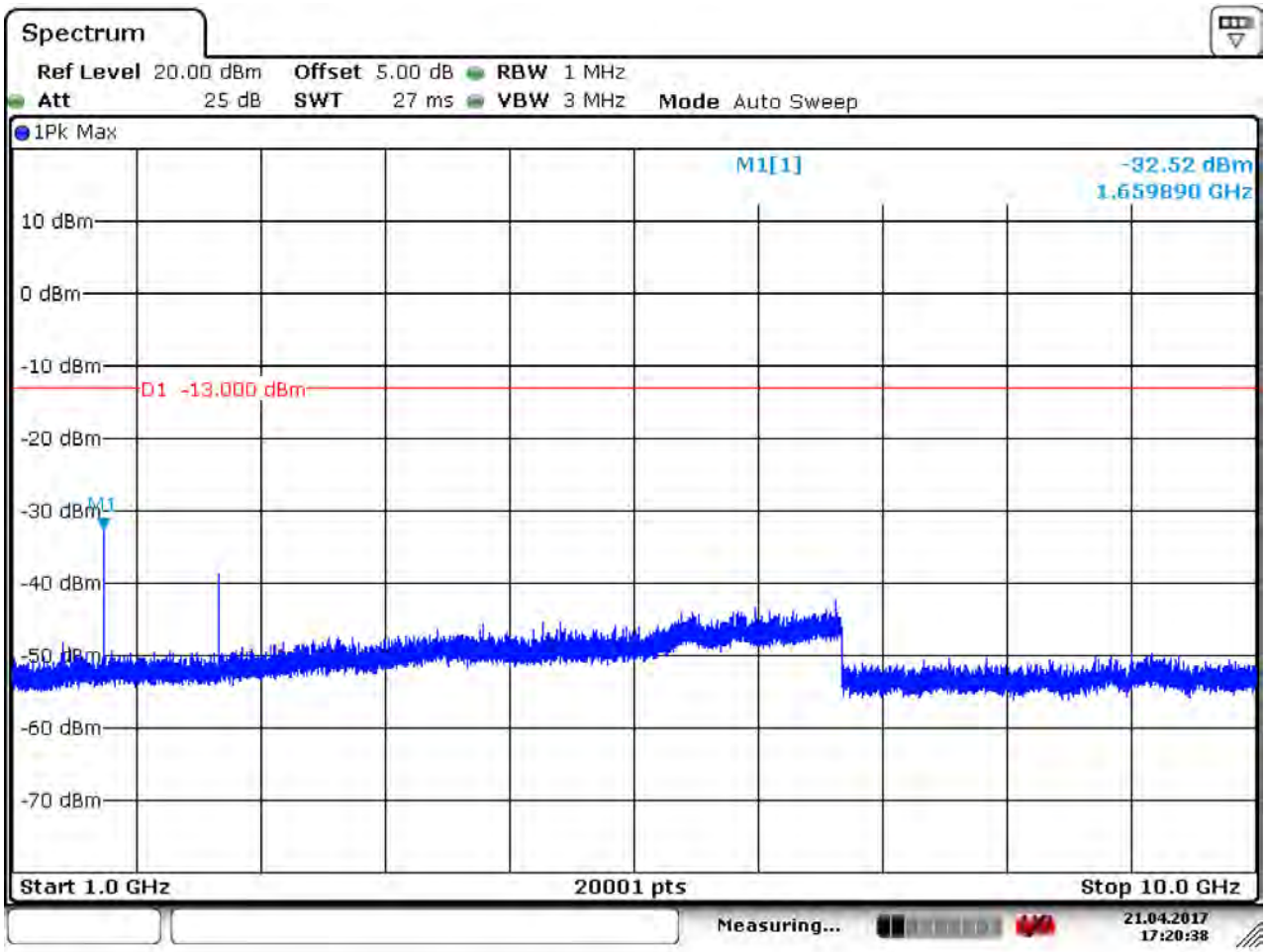


Date: 21.APR.2017 17:23:45

6.1.1.5.2 Test Channel = MCH

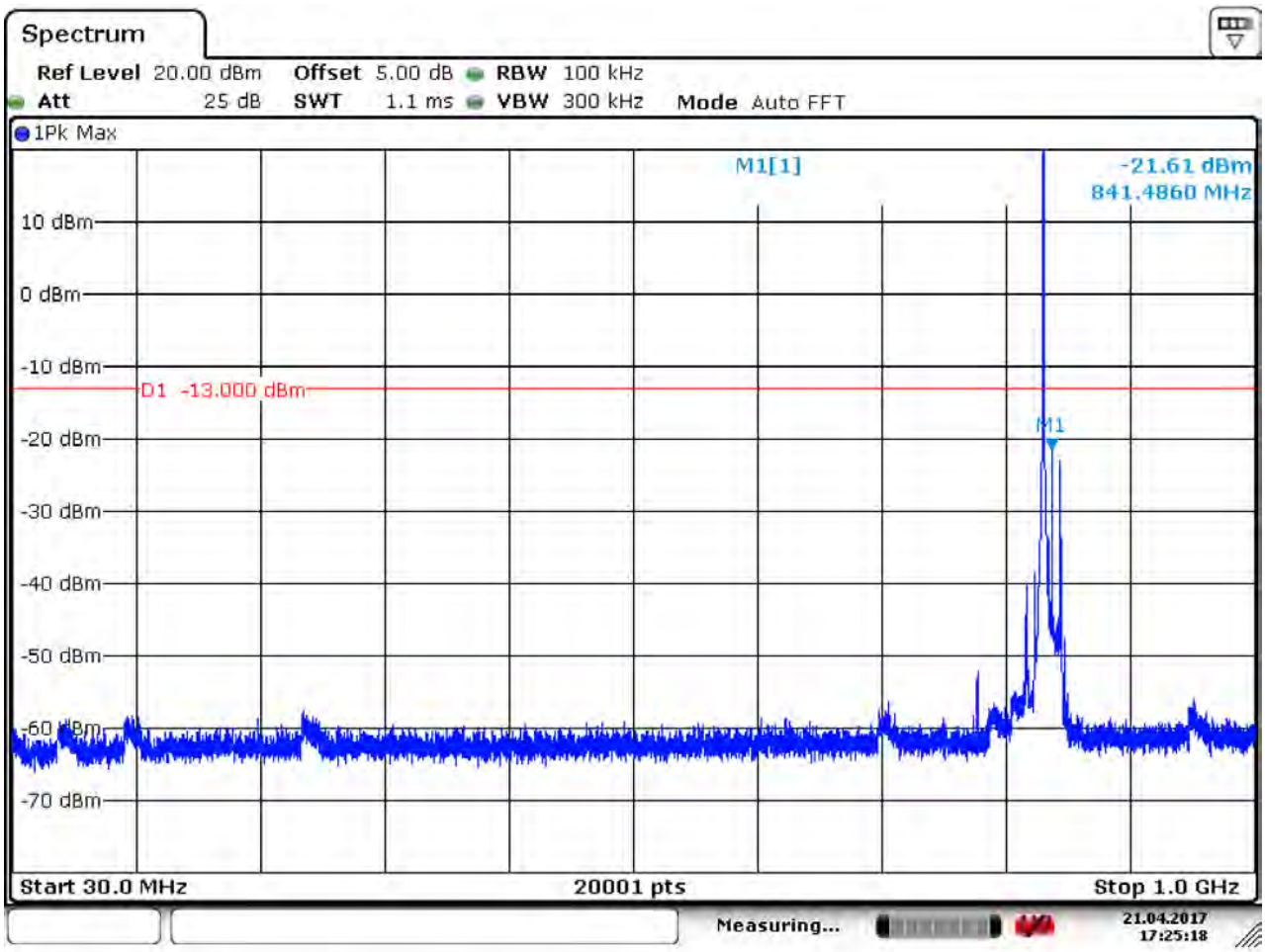


Date: 21.APR.2017 17:21:46

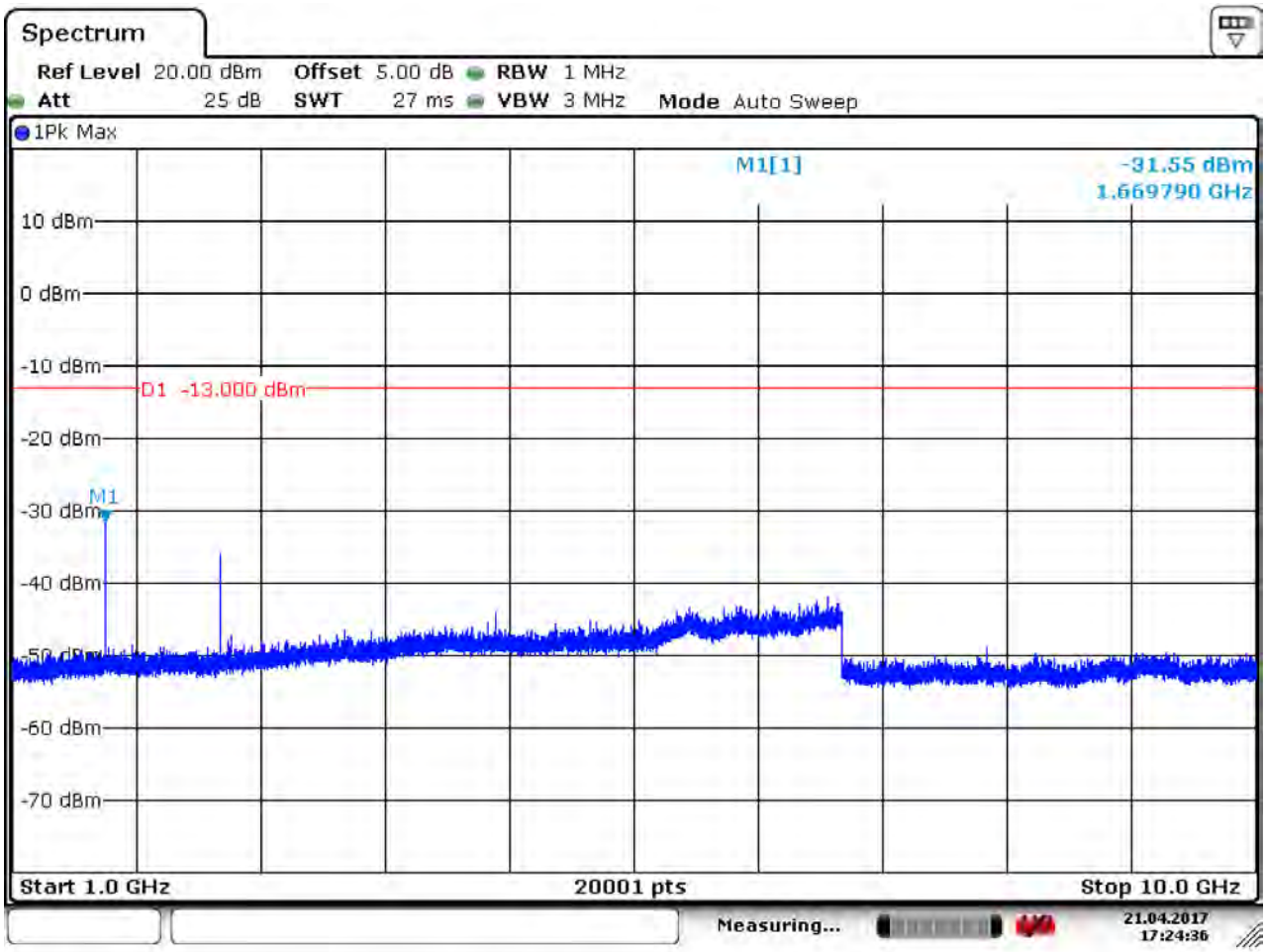


Date: 21.APR.2017 17:20:38

6.1.1.5.3 Test Channel = HCH



Date: 21.APR.2017 17:25:19



Date: 21.APR.2017 17:24:37

7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band26(824-849)

7.1.1.1 Test Mode =LTE/TM1 15MHz RB1#0

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1073.000	-68.32	-13.00	-55.32	Vertical
1551.000	-66.50	-13.00	-53.50	Vertical
8655.000	-65.06	-13.00	-52.06	Vertical
1111.000	-66.98	-13.00	-53.98	Horizontal
4170.000	-68.03	-13.00	-55.03	Horizontal
5145.000	-67.43	-13.00	-54.43	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2576.000	-58.47	-13.00	-45.47	Vertical
3975.000	-68.45	-13.00	-55.45	Vertical
5925.000	-67.02	-13.00	-54.02	Vertical
1452.000	-66.44	-13.00	-53.44	Horizontal
2112.000	-62.19	-13.00	-49.19	Horizontal
2776.000	-57.30	-13.00	-44.30	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1991.000	-61.75	-13.00	-48.75	Vertical
3585.000	-69.34	-13.00	-56.34	Vertical
6705.000	-66.09	-13.00	-53.09	Vertical
1485.000	-66.13	-13.00	-53.13	Horizontal
3487.500	-69.88	-13.00	-56.88	Horizontal
7290.000	-66.10	-13.00	-53.10	Horizontal

NOTE:

1) All modes are tested,but the data presented above is the worst case.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
LTE band26 (824-849)	LTE/TM1 15MHz	LCH	TN	VL	2.40	0.00289	PASS
				VN	-5.74	-0.00690	PASS
				VH	-6.25	-0.00752	PASS
		MCH	TN	VL	-4.43	-0.00530	PASS
				VN	-2.22	-0.00265	PASS
				VH	-5.49	-0.00656	PASS
		HCH	TN	VL	-5.24	-0.00623	PASS
				VN	-1.74	-0.00207	PASS
				VH	-4.21	-0.00500	PASS
	LTE/TM2 15MHz	LCH	TN	VL	-3.33	-0.00400	PASS
				VN	-5.80	-0.00698	PASS
				VH	-7.12	-0.00856	PASS
		MCH	TN	VL	1.85	0.00221	PASS
				VN	-2.84	-0.00340	PASS
				VH	3.22	0.00385	PASS
		HCH	TN	VL	-7.16	-0.00851	PASS
				VN	-2.13	-0.00253	PASS
				VH	-5.40	-0.00642	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
LTE band26 (824-849)	LTE/TM1 15MHz	LCH	VN	-30	-3.71	-0.00446	PASS
				-20	-4.35	-0.00523	PASS
				-10	-7.50	-0.00902	PASS
				0	-1.88	-0.00226	PASS
				10	-4.02	-0.00483	PASS
				20	-2.89	-0.00348	PASS
				30	-0.40	-0.00048	PASS
				40	3.63	0.00437	PASS
				50	-6.25	-0.00752	PASS
		MCH	VN	-30	2.14	0.00256	PASS
				-20	-3.73	-0.00446	PASS
				-10	1.62	0.00194	PASS
				0	3.08	0.00368	PASS
				10	-4.35	-0.00520	PASS
				20	-2.14	-0.00256	PASS
				30	-3.65	-0.00436	PASS
				40	1.64	0.00196	PASS
				50	-7.38	-0.00882	PASS
		HCH	VN	-30	2.51	0.00298	PASS
				-20	-4.40	-0.00523	PASS
				-10	-7.87	-0.00935	PASS
				0	-5.21	-0.00619	PASS
				10	-2.68	-0.00318	PASS
				20	3.27	0.00389	PASS
				30	-2.83	-0.00336	PASS
				40	-1.07	-0.00127	PASS
				50	-6.32	-0.00751	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band26 (824-849)	LTE/TM2 15MHz	LCH	VN	-30	-3.58	-0.00431	PASS
				-20	-1.54	-0.00185	PASS
				-10	2.38	0.00286	PASS
				0	-4.75	-0.00571	PASS
				10	1.65	0.00198	PASS
				20	0.11	0.00013	PASS
				30	-0.31	-0.00037	PASS
				40	-4.14	-0.00498	PASS
				50	-8.59	-0.01033	PASS
		MCH	VN	-30	-7.20	-0.00861	PASS
				-20	-2.35	-0.00281	PASS
				-10	-7.49	-0.00895	PASS
				0	-5.22	-0.00624	PASS
				10	-4.04	-0.00483	PASS
				20	-3.93	-0.00470	PASS
				30	-5.66	-0.00677	PASS
				40	-4.62	-0.00552	PASS
				50	-6.32	-0.00756	PASS
		HCH	VN	-30	-5.54	-0.00658	PASS
				-20	-4.45	-0.00529	PASS
				-10	1.53	0.00182	PASS
				0	-2.83	-0.00336	PASS
				10	2.60	0.00309	PASS
				20	-0.47	-0.00056	PASS
				30	-2.66	-0.00316	PASS
				40	-5.23	-0.00622	PASS
				50	-3.20	-0.00380	PASS

The End