



Appendix B

Test Data for SZEM1610008522RG



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1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 26(814-824)

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	1.4M	LCH	RB1#0	22.05	21.40	50.00	PASS
				RB1#2	22.04	21.39	50.00	PASS
				RB1#5	22.02	21.37	50.00	PASS
				RB3#0	21.3	20.65	50.00	PASS
				RB3#2	21.26	20.61	50.00	PASS
				RB3#3	21.35	20.70	50.00	PASS
				RB6#0	21.24	20.59	50.00	PASS
			MCH	RB1#0	22.15	21.50	50.00	PASS
				RB1#2	22.12	21.47	50.00	PASS
				RB1#5	22.06	21.41	50.00	PASS
				RB3#0	21.40	20.75	50.00	PASS
				RB3#2	21.37	20.72	50.00	PASS
				RB3#3	21.31	20.66	50.00	PASS
				RB6#0	21.24	20.59	50.00	PASS
			HCH	RB1#0	22.12	21.47	50.00	PASS
				RB1#2	22.07	21.42	50.00	PASS
				RB1#5	22.05	21.40	50.00	PASS
				RB3#0	21.3	20.65	50.00	PASS
				RB3#2	21.35	20.70	50.00	PASS
				RB3#3	21.20	20.55	50.00	PASS
				RB6#0	21.22	20.57	50.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM2	1.4M	LCH	RB1#0	21.58	20.93	50.00	PASS
				RB1#2	21.5	20.85	50.00	PASS
				RB1#5	21.45	20.80	50.00	PASS
				RB3#0	20.37	19.72	50.00	PASS
				RB3#2	20.42	19.77	50.00	PASS
				RB3#3	20.42	19.77	50.00	PASS
				RB6#0	20.37	19.72	50.00	PASS
			MCH	RB1#0	21.56	20.91	50.00	PASS
				RB1#2	21.50	20.85	50.00	PASS
				RB1#5	21.53	20.88	50.00	PASS
				RB3#0	20.44	19.79	50.00	PASS
				RB3#2	20.4	19.75	50.00	PASS
				RB3#3	20.38	19.73	50.00	PASS
				RB6#0	20.40	19.75	50.00	PASS
			HCH	RB1#0	21.57	20.92	50.00	PASS
				RB1#2	21.54	20.89	50.00	PASS
				RB1#5	21.51	20.86	50.00	PASS
				RB3#0	20.45	19.80	50.00	PASS
				RB3#2	20.39	19.74	50.00	PASS
				RB3#3	20.38	19.73	50.00	PASS
				RB6#0	20.36	19.71	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM3	1.4M	LCH	RB1#0	20.73	20.08	50.00	PASS
				RB1#2	20.61	19.96	50.00	PASS
				RB1#5	20.59	19.94	50.00	PASS
				RB3#0	19.47	18.82	50.00	PASS
				RB3#2	19.42	18.77	50.00	PASS
				RB3#3	19.33	18.68	50.00	PASS
				RB6#0	19.31	18.66	50.00	PASS
			MCH	RB1#0	20.70	20.05	50.00	PASS
				RB1#2	20.65	20.00	50.00	PASS
				RB1#5	20.64	19.99	50.00	PASS
				RB3#0	19.42	18.77	50.00	PASS
				RB3#2	19.42	18.77	50.00	PASS
				RB3#3	19.37	18.72	50.00	PASS
				RB6#0	19.35	18.70	50.00	PASS
			HCH	RB1#0	20.73	20.08	50.00	PASS
				RB1#2	20.68	20.03	50.00	PASS
				RB1#5	20.73	20.08	50.00	PASS
				RB3#0	19.4	18.75	50.00	PASS
				RB3#2	19.41	18.76	50.00	PASS
				RB3#3	19.35	18.70	50.00	PASS
				RB6#0	19.34	18.69	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	3M	LCH	RB1#0	22.09	21.44	50.00	PASS
				RB1#7	22.06	21.41	50.00	PASS
				RB1#14	22.02	21.37	50.00	PASS
				RB8#0	21.34	20.69	50.00	PASS
				RB8#4	21.29	20.64	50.00	PASS
				RB8#7	21.36	20.71	50.00	PASS
				RB15#0	21.27	20.62	50.00	PASS
			MCH	RB1#0	22.15	21.50	50.00	PASS
				RB1#7	22.13	21.48	50.00	PASS
				RB1#14	22.10	21.45	50.00	PASS
				RB8#0	21.42	20.77	50.00	PASS
				RB8#4	21.37	20.72	50.00	PASS
				RB8#7	21.36	20.71	50.00	PASS
				RB15#0	21.29	20.64	50.00	PASS
			HCH	RB1#0	22.14	21.49	50.00	PASS
				RB1#7	22.11	21.46	50.00	PASS
				RB1#14	22.07	21.42	50.00	PASS
				RB8#0	21.33	20.68	50.00	PASS
				RB8#4	21.33	20.68	50.00	PASS
				RB8#7	21.24	20.59	50.00	PASS
				RB15#0	21.22	20.57	50.00	PASS

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BAND26 (814-824)	LTE/TM2	3M	LCH	RB1#0	21.58	20.93	50.00	PASS
				RB1#7	21.54	20.89	50.00	PASS
				RB1#14	21.49	20.84	50.00	PASS
				RB8#0	20.4	19.75	50.00	PASS
				RB8#4	20.43	19.78	50.00	PASS
				RB8#7	20.43	19.78	50.00	PASS
				RB15#0	20.41	19.76	50.00	PASS
			MCH	RB1#0	21.56	20.91	50.00	PASS
				RB1#7	21.53	20.88	50.00	PASS
				RB1#14	21.52	20.87	50.00	PASS
				RB8#0	20.48	19.83	50.00	PASS
				RB8#4	20.43	19.78	50.00	PASS
				RB8#7	20.38	19.73	50.00	PASS
				RB15#0	20.41	19.76	50.00	PASS
			HCH	RB1#0	21.58	20.93	50.00	PASS
				RB1#7	21.55	20.90	50.00	PASS
				RB1#14	21.53	20.88	50.00	PASS
				RB8#0	20.44	19.79	50.00	PASS
				RB8#4	20.42	19.77	50.00	PASS
				RB8#7	20.40	19.75	50.00	PASS
				RB15#0	20.39	19.74	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM3	3M	LCH	RB1#0	20.77	20.12	50.00	PASS
				RB1#7	20.62	19.97	50.00	PASS
				RB1#14	20.59	19.94	50.00	PASS
				RB8#0	19.48	18.83	50.00	PASS
				RB8#4	19.45	18.80	50.00	PASS
				RB8#7	19.38	18.73	50.00	PASS
				RB15#0	19.33	18.68	50.00	PASS
			MCH	RB1#0	20.74	20.09	50.00	PASS
				RB1#7	20.72	20.07	50.00	PASS
				RB1#14	20.71	20.06	50.00	PASS
				RB8#0	19.45	18.80	50.00	PASS
				RB8#4	19.47	18.82	50.00	PASS
				RB8#7	19.42	18.77	50.00	PASS
				RB15#0	19.39	18.74	50.00	PASS
			HCH	RB1#0	20.74	20.09	50.00	PASS
				RB1#7	20.70	20.05	50.00	PASS
				RB1#14	20.70	20.05	50.00	PASS
				RB8#0	19.41	18.76	50.00	PASS
				RB8#4	19.42	18.77	50.00	PASS
				RB8#7	19.38	18.73	50.00	PASS
				RB15#0	19.39	18.74	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	5M	LCH	RB1#0	22.12	21.47	50.00	PASS
				RB1#13	22.07	21.42	50.00	PASS
				RB1#24	22.03	21.38	50.00	PASS
				RB12#0	21.38	20.73	50.00	PASS
				RB12#6	21.33	20.68	50.00	PASS
				RB12#13	21.36	20.71	50.00	PASS
				RB25#0	21.3	20.65	50.00	PASS
			MCH	RB1#0	22.17	21.52	50.00	PASS
				RB1#13	22.14	21.49	50.00	PASS
				RB1#24	22.12	21.47	50.00	PASS
				RB12#0	21.42	20.77	50.00	PASS
				RB12#6	21.43	20.78	50.00	PASS
				RB12#13	21.39	20.74	50.00	PASS
				RB25#0	21.35	20.70	50.00	PASS
			HCH	RB1#0	22.15	21.50	50.00	PASS
				RB1#13	22.10	21.45	50.00	PASS
				RB1#24	22.09	21.44	50.00	PASS
				RB12#0	21.38	20.73	50.00	PASS
				RB12#6	21.35	20.70	50.00	PASS
				RB12#13	21.29	20.64	50.00	PASS
				RB25#0	21.27	20.62	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM2	5M	LCH	RB1#0	21.6	20.95	50.00	PASS
				RB1#13	21.58	20.93	50.00	PASS
				RB1#24	21.53	20.88	50.00	PASS
				RB12#0	20.45	19.80	50.00	PASS
				RB12#6	20.45	19.80	50.00	PASS
				RB12#13	20.45	19.80	50.00	PASS
				RB25#0	20.43	19.78	50.00	PASS
			MCH	RB1#0	21.60	20.95	50.00	PASS
				RB1#13	21.56	20.91	50.00	PASS
				RB1#24	21.57	20.92	50.00	PASS
				RB12#0	20.52	19.87	50.00	PASS
				RB12#6	20.46	19.81	50.00	PASS
				RB12#13	20.41	19.76	50.00	PASS
				RB25#0	20.43	19.78	50.00	PASS
			HCH	RB1#0	21.62	20.97	50.00	PASS
				RB1#13	21.61	20.96	50.00	PASS
				RB1#24	21.58	20.93	50.00	PASS
				RB12#0	20.46	19.81	50.00	PASS
				RB12#6	20.45	19.80	50.00	PASS
				RB12#13	20.42	19.77	50.00	PASS
				RB25#0	20.35	19.70	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM3	5M	LCH	RB1#0	20.77	20.12	50.00	PASS
				RB1#13	20.65	20.00	50.00	PASS
				RB1#24	20.61	19.96	50.00	PASS
				RB12#0	19.5	18.85	50.00	PASS
				RB12#6	19.47	18.82	50.00	PASS
				RB12#13	19.39	18.74	50.00	PASS
				RB25#0	19.36	18.71	50.00	PASS
			MCH	RB1#0	20.75	20.10	50.00	PASS
				RB1#13	20.72	20.07	50.00	PASS
				RB1#24	20.71	20.06	50.00	PASS
				RB12#0	19.47	18.82	50.00	PASS
				RB12#6	19.51	18.86	50.00	PASS
				RB12#13	19.45	18.80	50.00	PASS
				RB25#0	19.40	18.75	50.00	PASS
			HCH	RB1#0	20.77	20.12	50.00	PASS
				RB1#13	20.74	20.09	50.00	PASS
				RB1#24	20.73	20.08	50.00	PASS
				RB12#0	19.45	18.80	50.00	PASS
				RB12#6	19.46	18.81	50.00	PASS
				RB12#13	19.39	18.74	50.00	PASS
				RB25#0	19.41	18.76	50.00	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (814-824)	LTE/TM1	10M	MCH	RB1#0	22.20	21.55	50.00	PASS
				RB1#25	22.15	21.50	50.00	PASS
				RB1#49	22.13	21.48	50.00	PASS
				RB25#0	21.42	20.77	50.00	PASS
				RB25#13	21.43	20.78	50.00	PASS
				RB25#25	21.41	20.76	50.00	PASS
				RB50#0	21.36	20.71	50.00	PASS
	LTE/TM2	10M	MCH	RB1#0	21.66	21.01	50.00	PASS
				RB1#25	21.62	20.97	50.00	PASS
				RB1#49	21.60	20.95	50.00	PASS
				RB25#0	20.52	19.87	50.00	PASS
				RB25#13	20.5	19.85	50.00	PASS
				RB25#25	20.43	19.78	50.00	PASS
				RB50#0	20.40	19.75	50.00	PASS
	LTE/TM3	10M	MCH	RB1#0	20.79	20.14	50.00	PASS
				RB1#25	20.77	20.12	50.00	PASS
				RB1#49	20.74	20.09	50.00	PASS
				RB25#0	19.51	18.86	50.00	PASS
				RB25#13	19.53	18.88	50.00	PASS
				RB25#25	19.48	18.83	50.00	PASS
				RB50#0	19.41	18.76	50.00	PASS

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Note:

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

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

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
Band 26(814-824)	TM1/10M	MCH	5.36	13	PASS
	TM2/10M	MCH	6.26	13	PASS
	TM3/10M	MCH	6.70	13	PASS



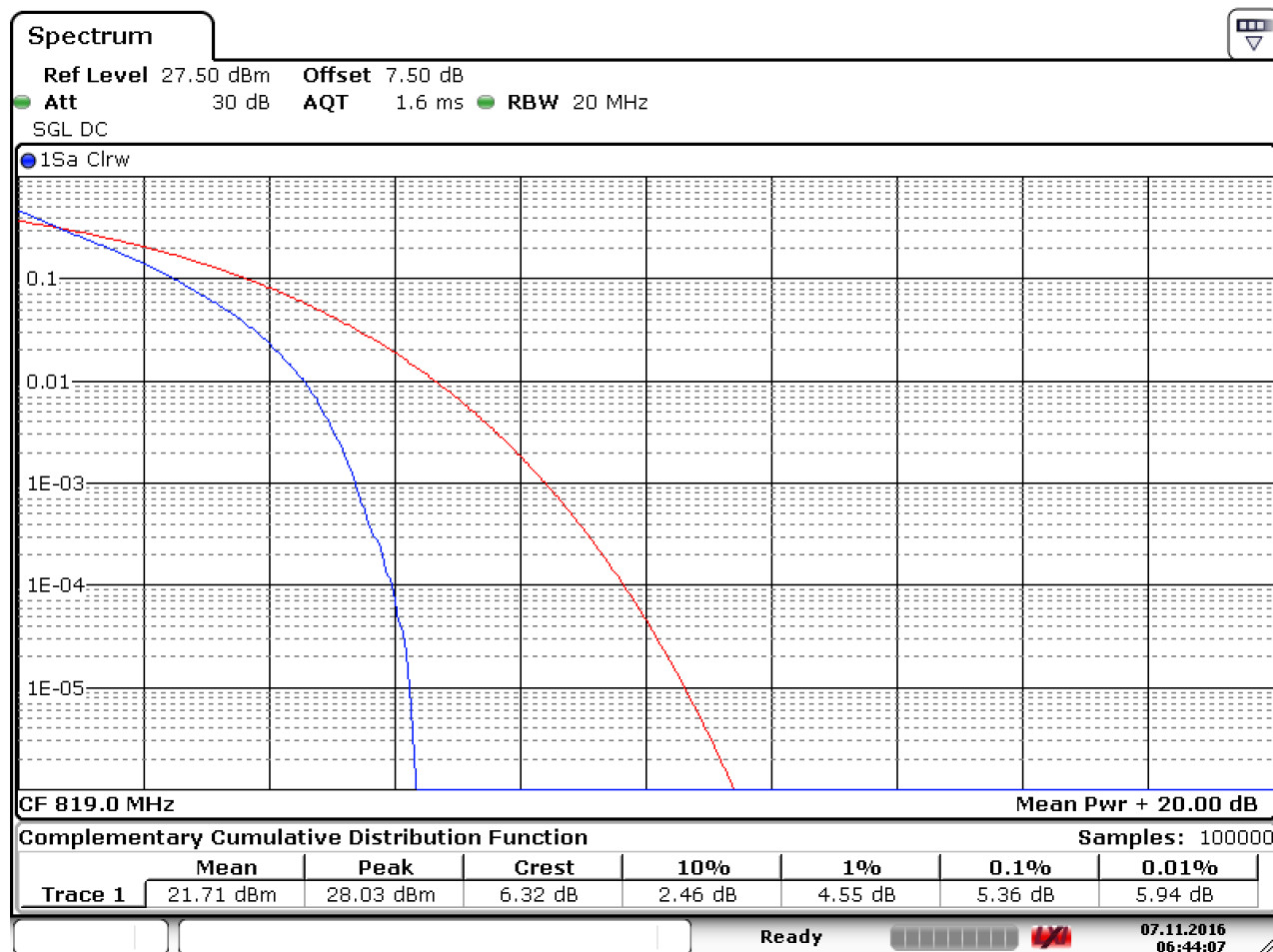
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band26

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=10MHz

2.1.1.1.1 Test Channel = MCH

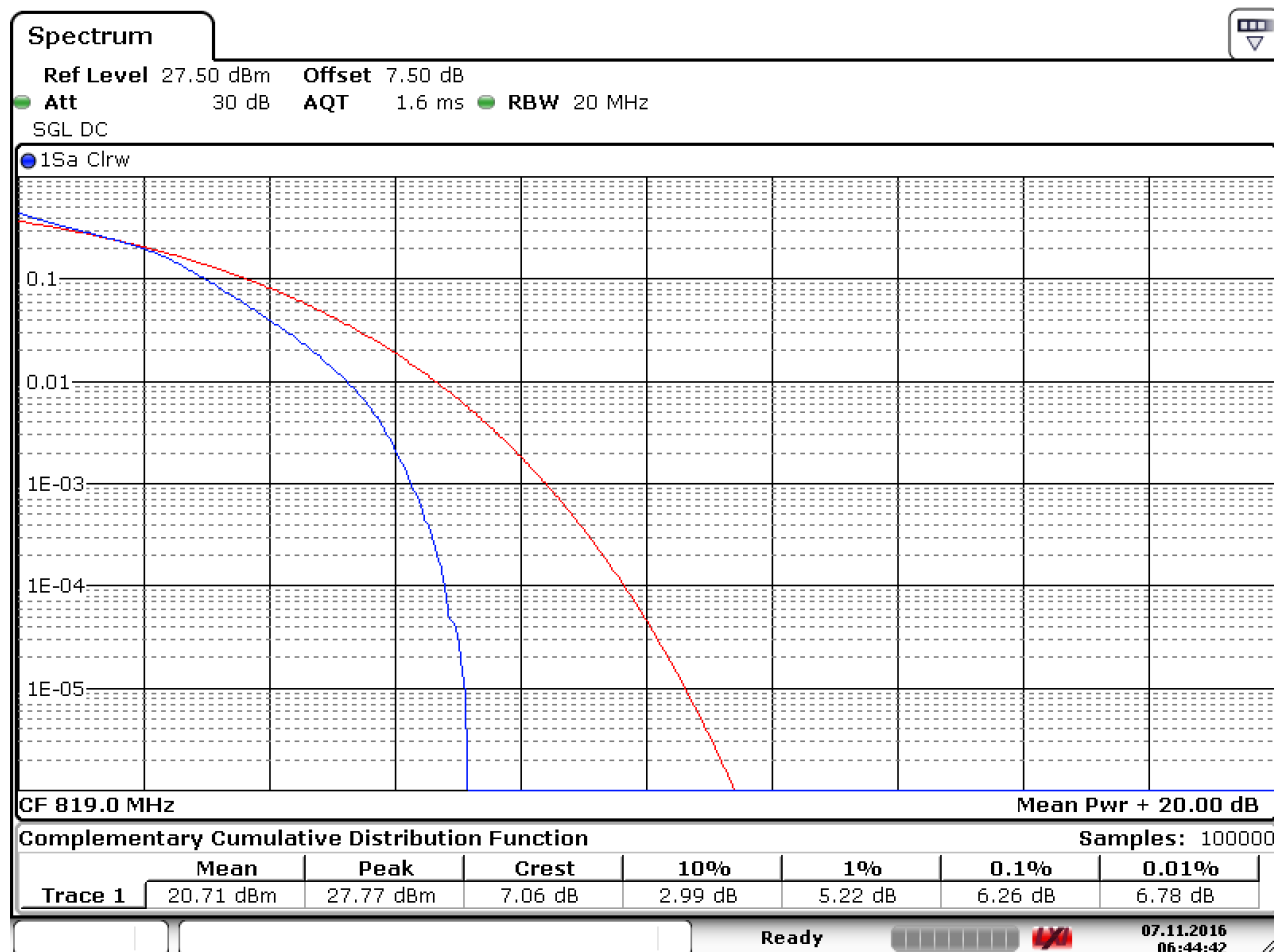


Date: 7.NOV.2016 06:44:08



2.1.1.2 Test Mode = LTE/TM2.Bandwidth=10MHz

2.1.1.2.1 Test Channel = MCH

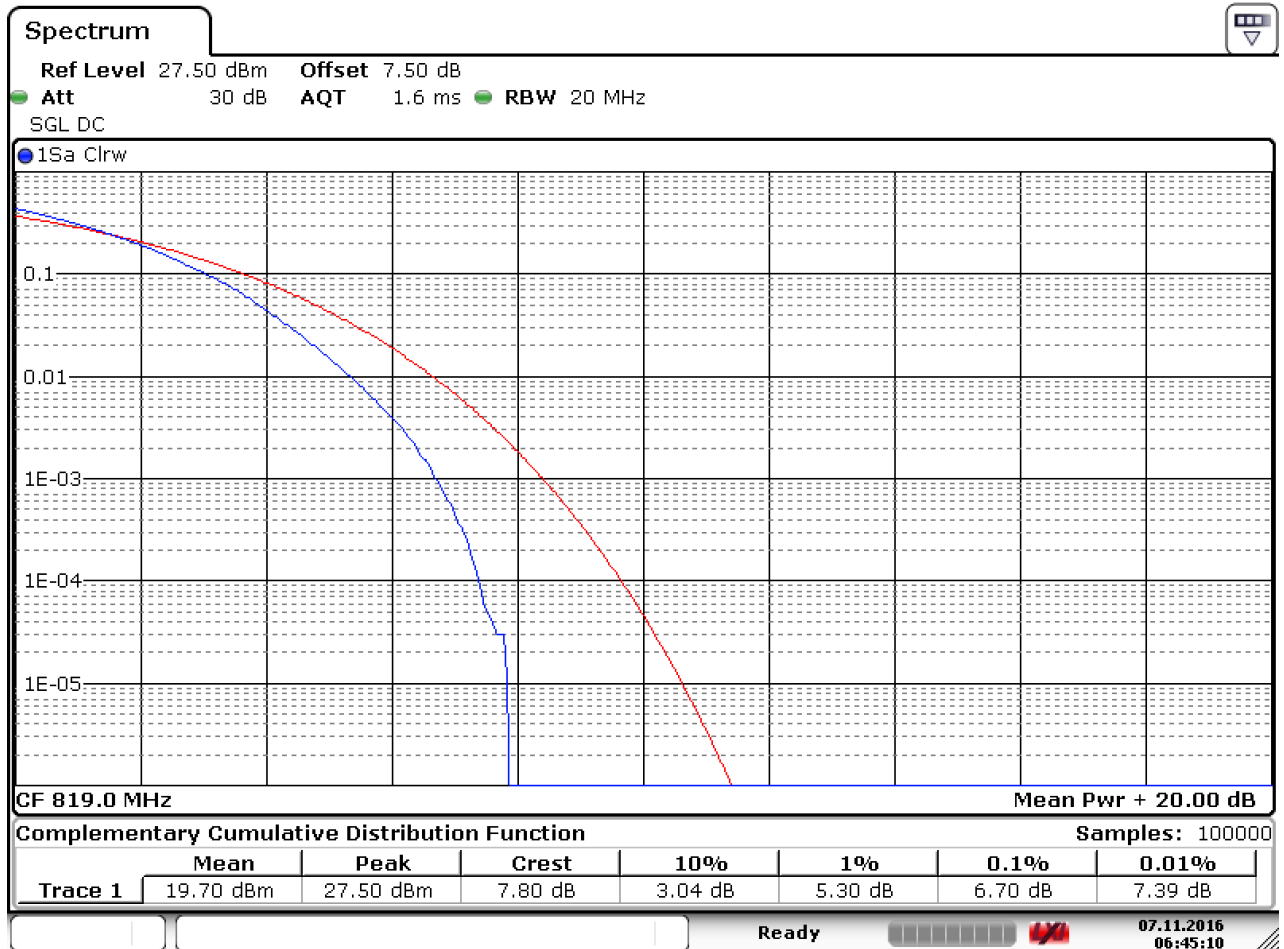


Date: 7.NOV.2016 06:44:43



2.1.1.3 Test Mode = LTE/TM3.Bandwidth=10MHz

2.1.1.3.1 Test Channel = MCH



Date: 7.NOV.2016 06:45:10



3 Modulation Characteristics

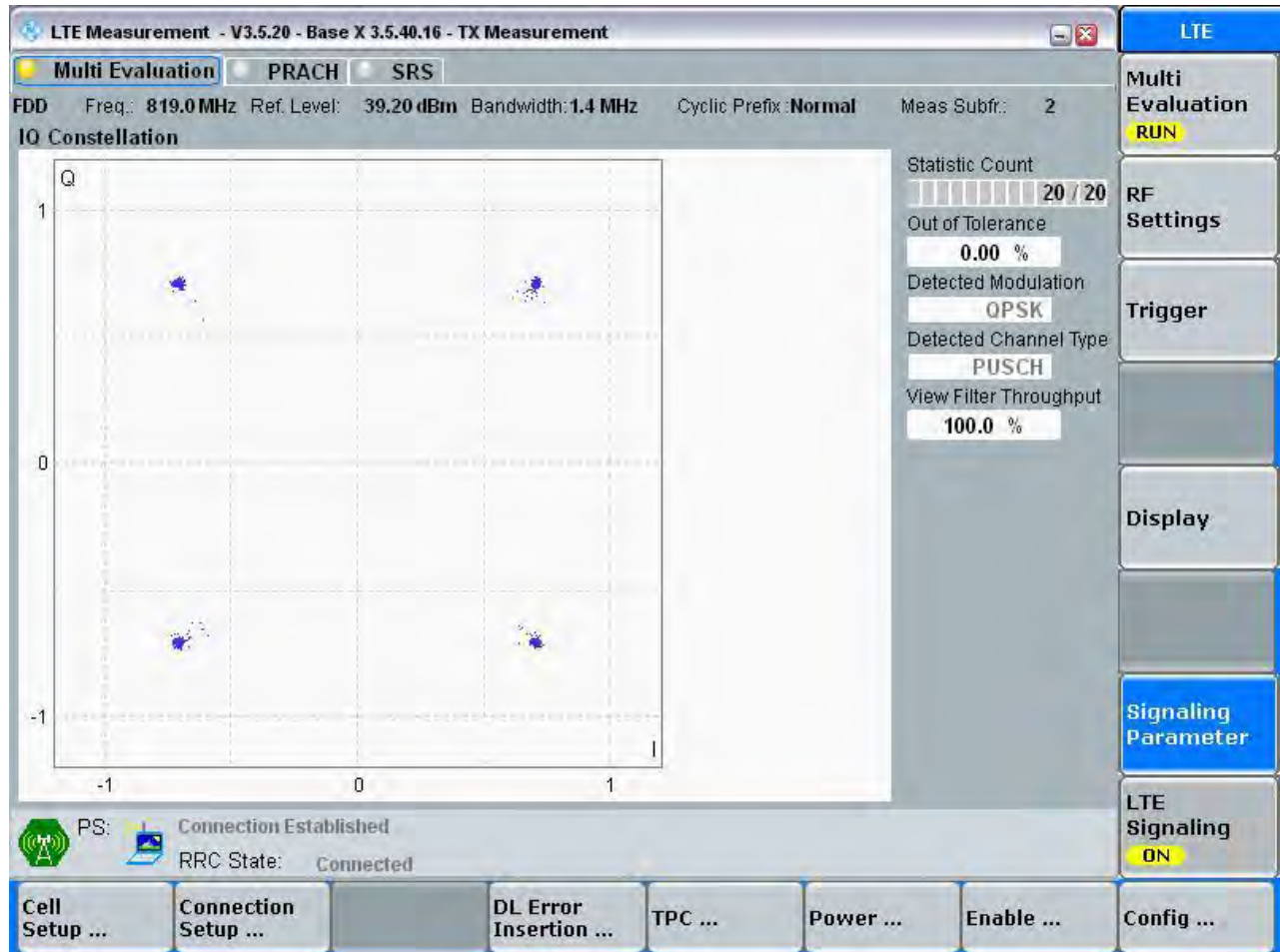
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band26

3.1.1.1 Test Mode = LTE /TM1 1.4MHz

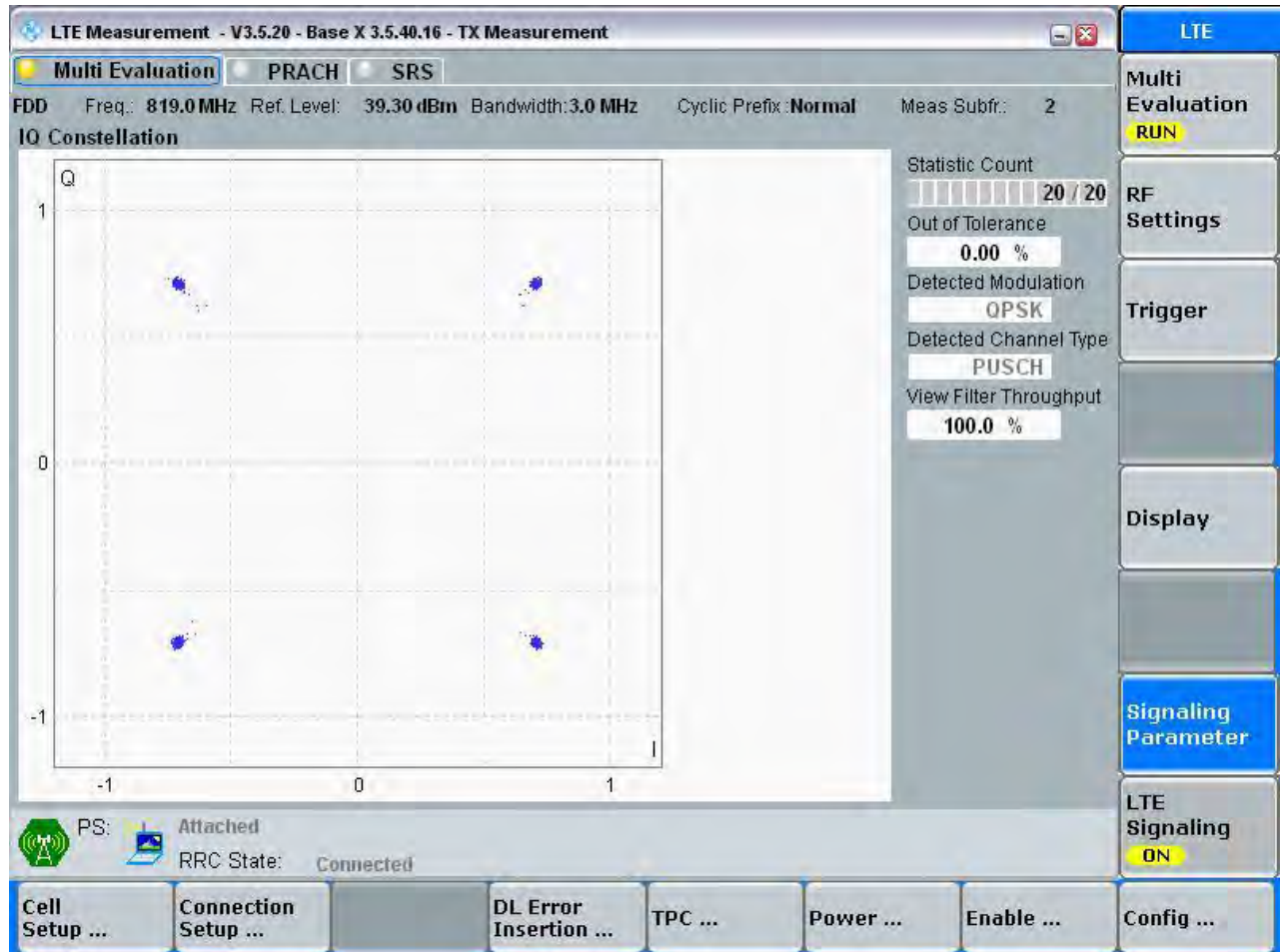
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 3MHz

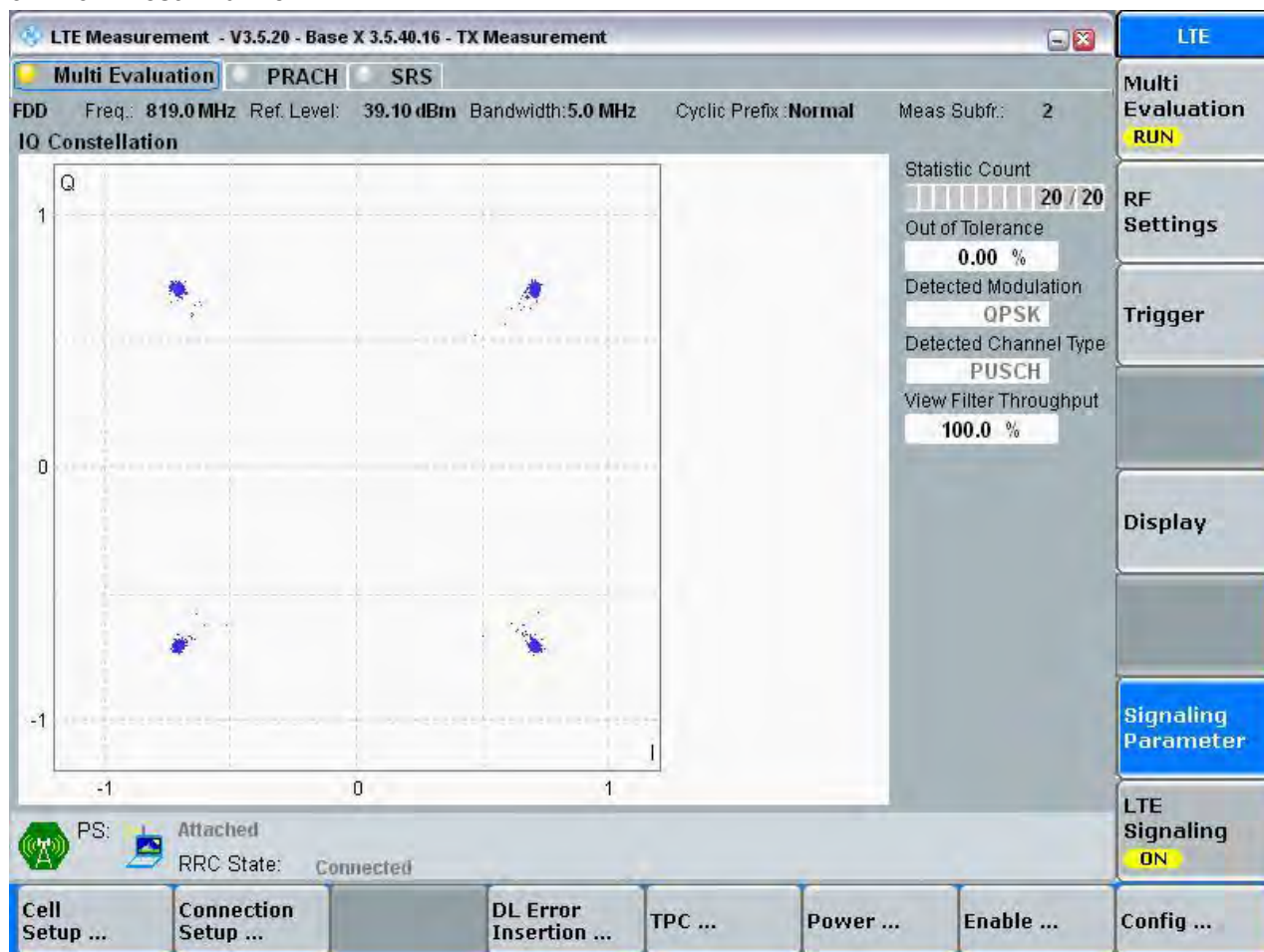
3.1.1.2.1 Test Channel = MCH





3.1.1.3 Test Mode = LTE /TM1 5MHz

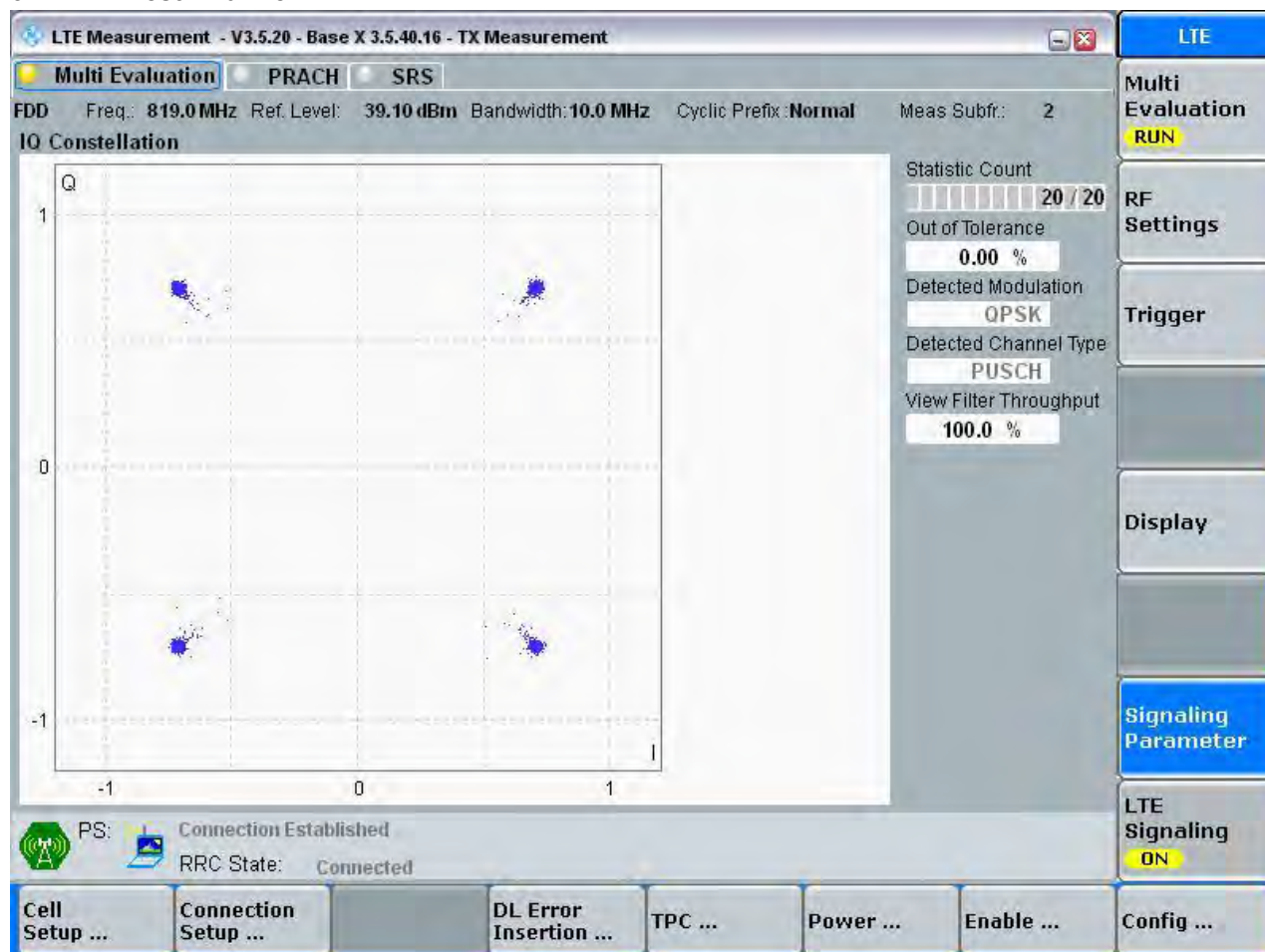
3.1.1.3.1 Test Channel = MCH





3.1.1.4 Test Mode = LTE /TM1 10MHz

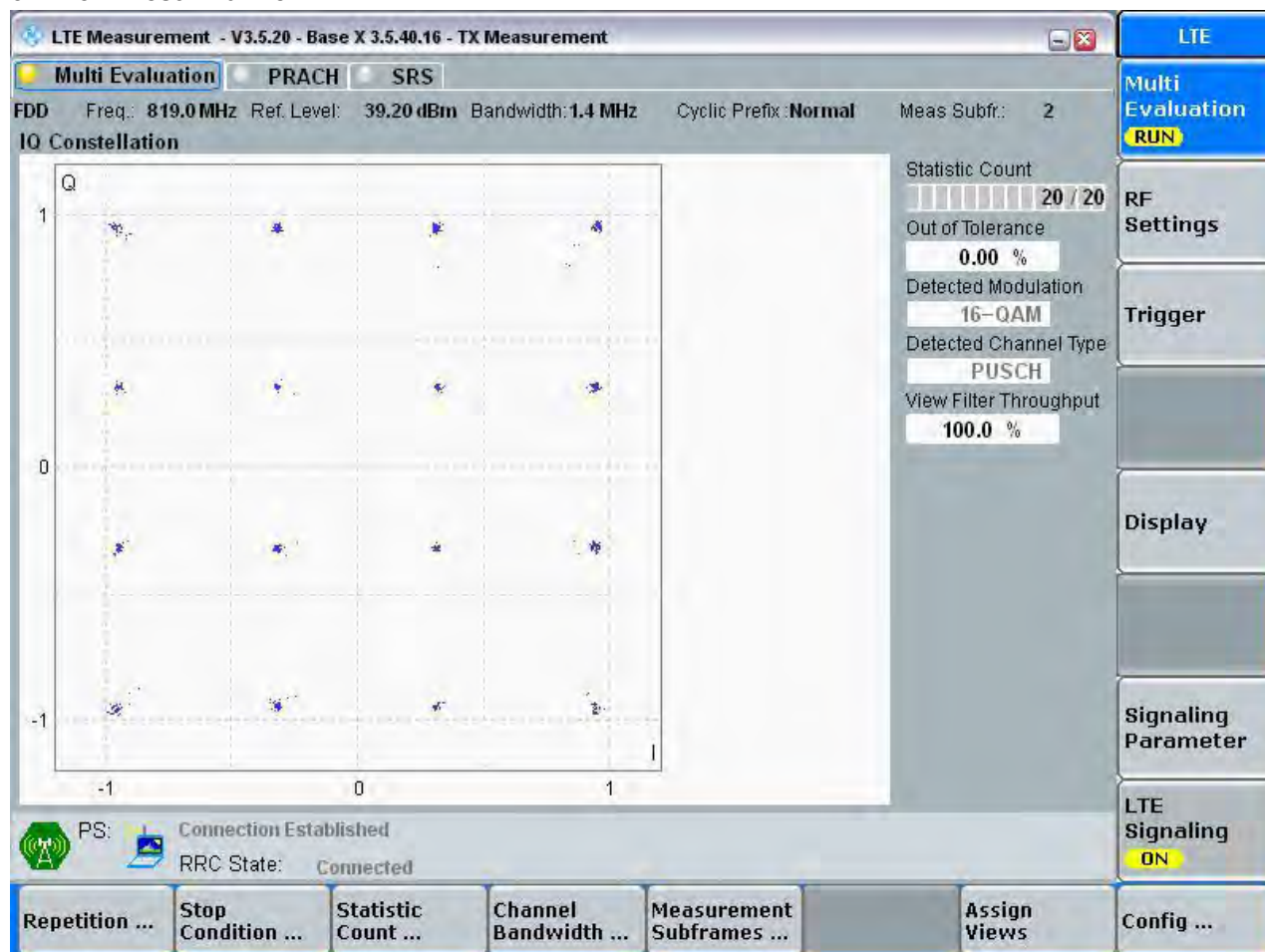
3.1.1.4.1 Test Channel = MCH





3.1.1.5 Test Mode = LTE /TM2 1.4MHz

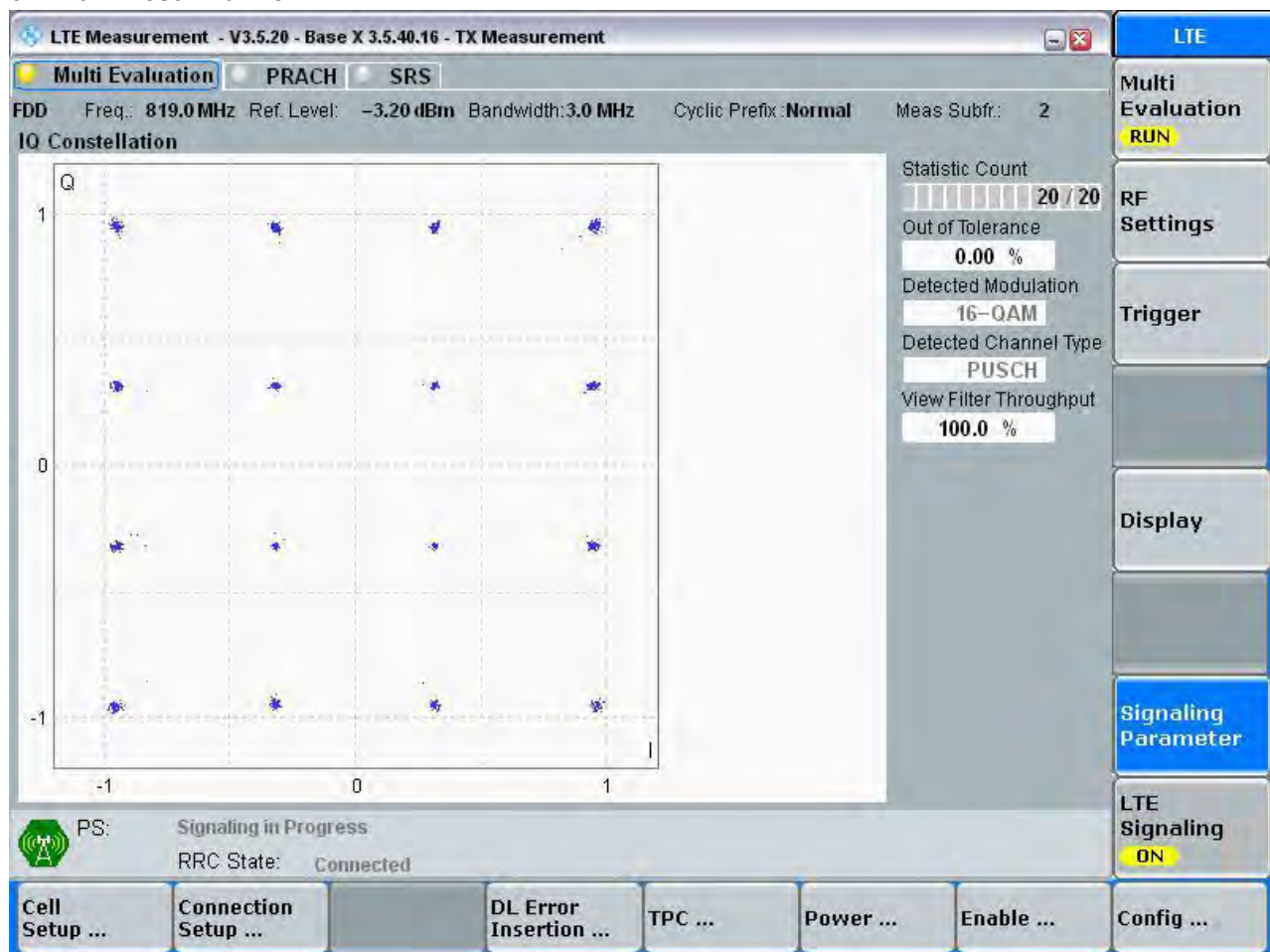
3.1.1.5.1 Test Channel = MCH





3.1.1.6 Test Mode = LTE /TM2 3MHz

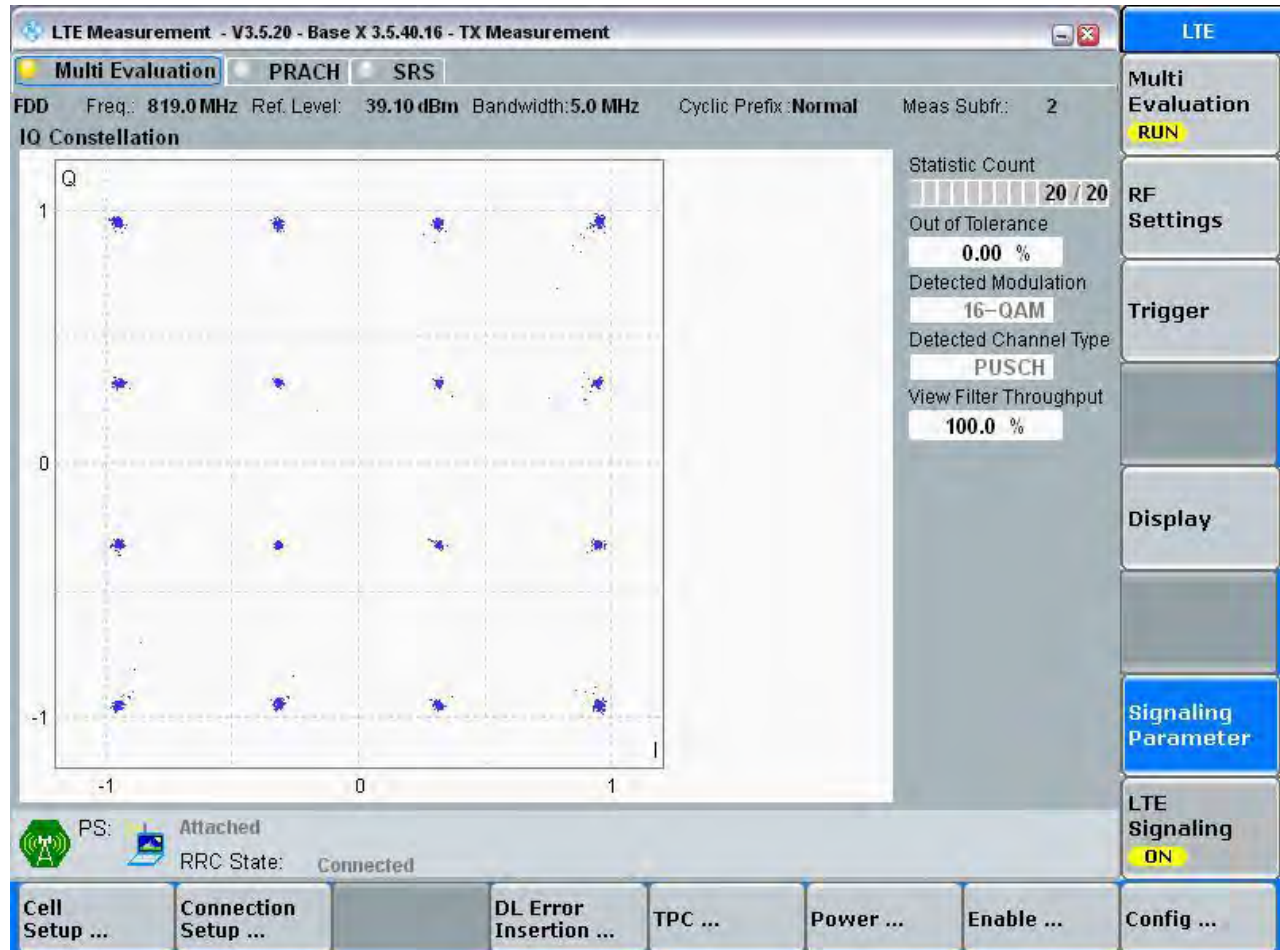
3.1.1.6.1 Test Channel = MCH





3.1.1.7 Test Mode = LTE /TM2 5MHz

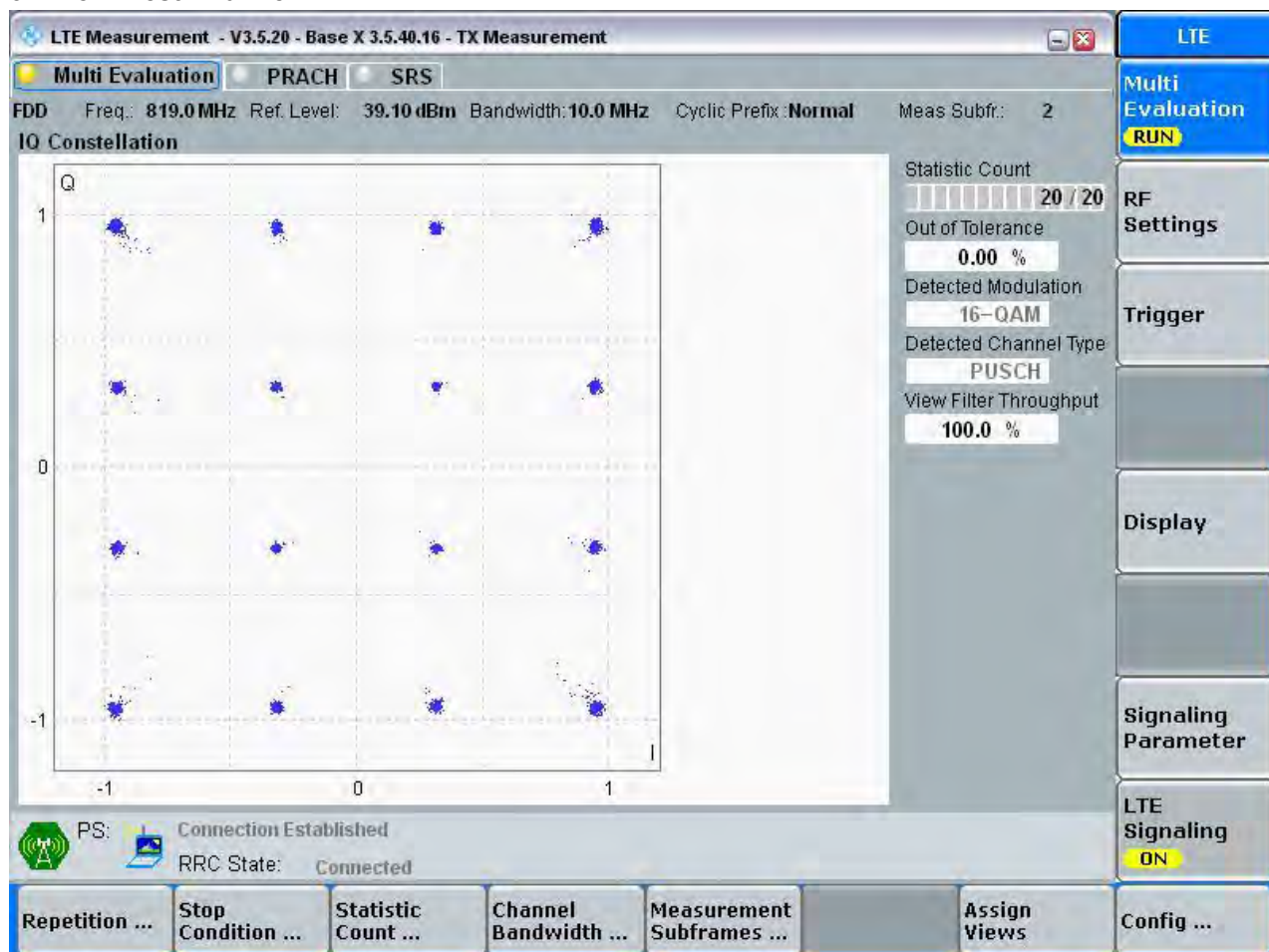
3.1.1.7.1 Test Channel = MCH





3.1.1.8 Test Mode = LTE /TM2 10MHz

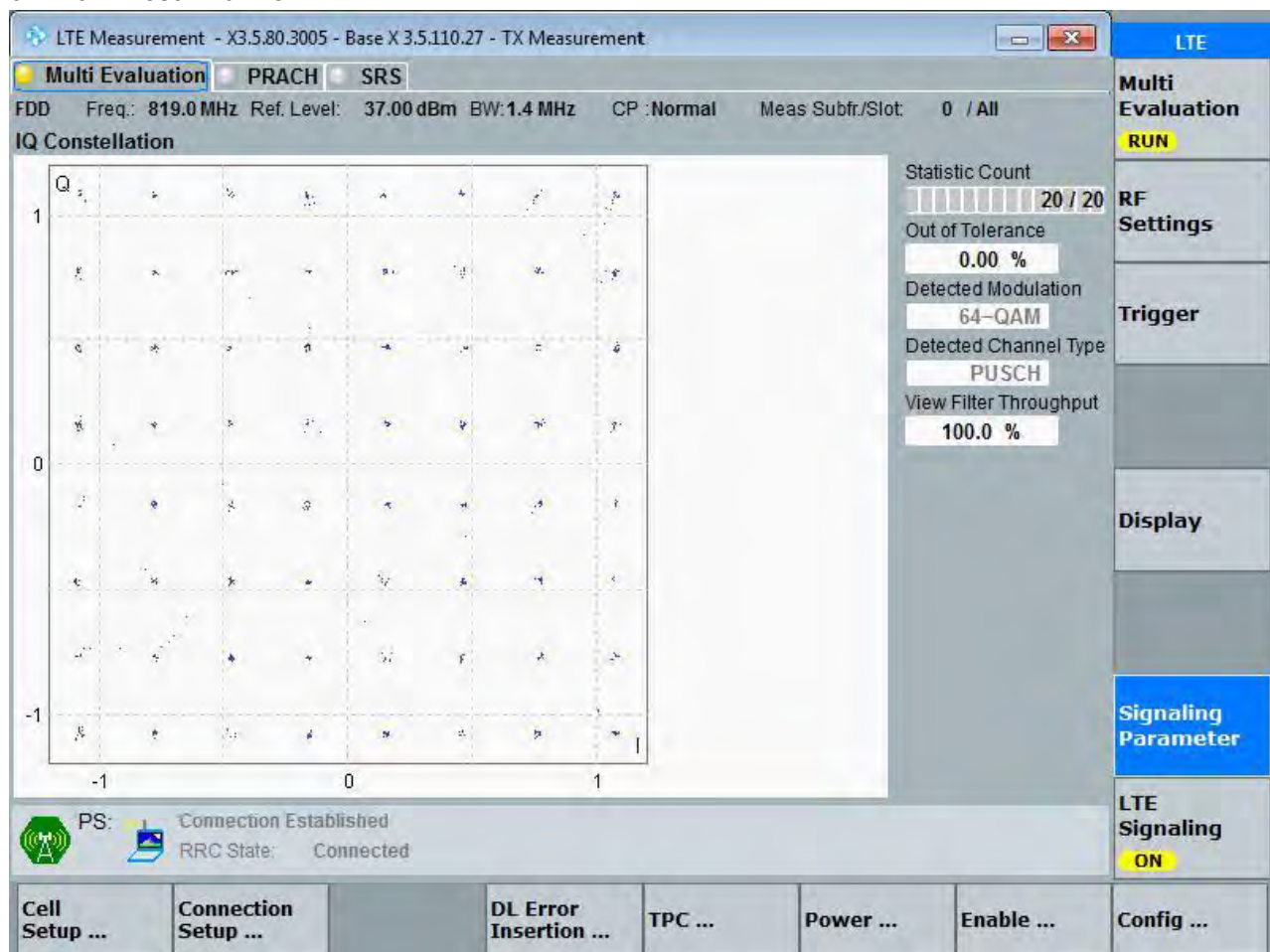
3.1.1.8.1 Test Channel = MCH





3.1.1.9 Test Mode = LTE /TM3 1.4MHz

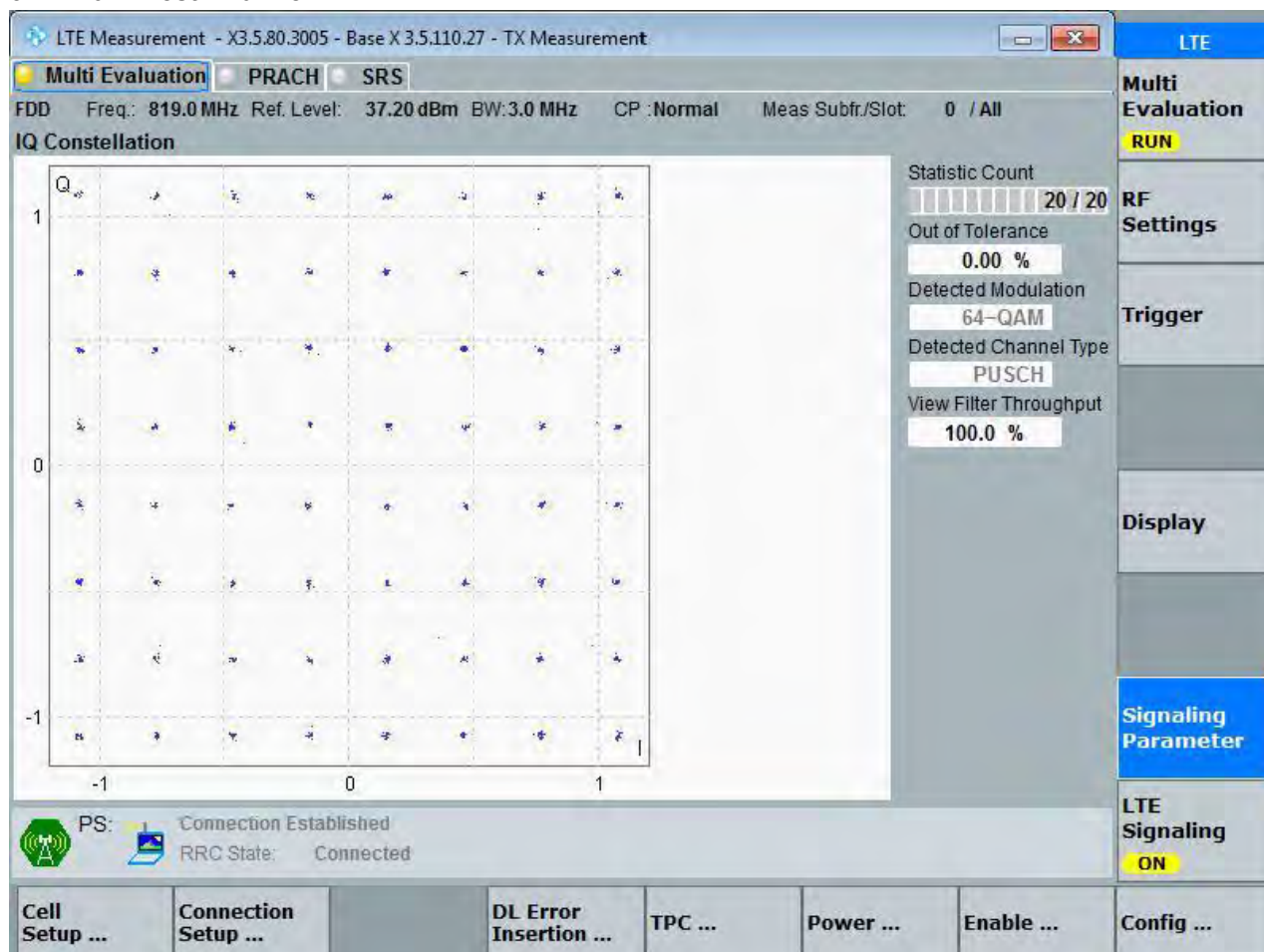
3.1.1.9.1 Test Channel = MCH





3.1.1.10 Test Mode = LTE /TM3 3MHz

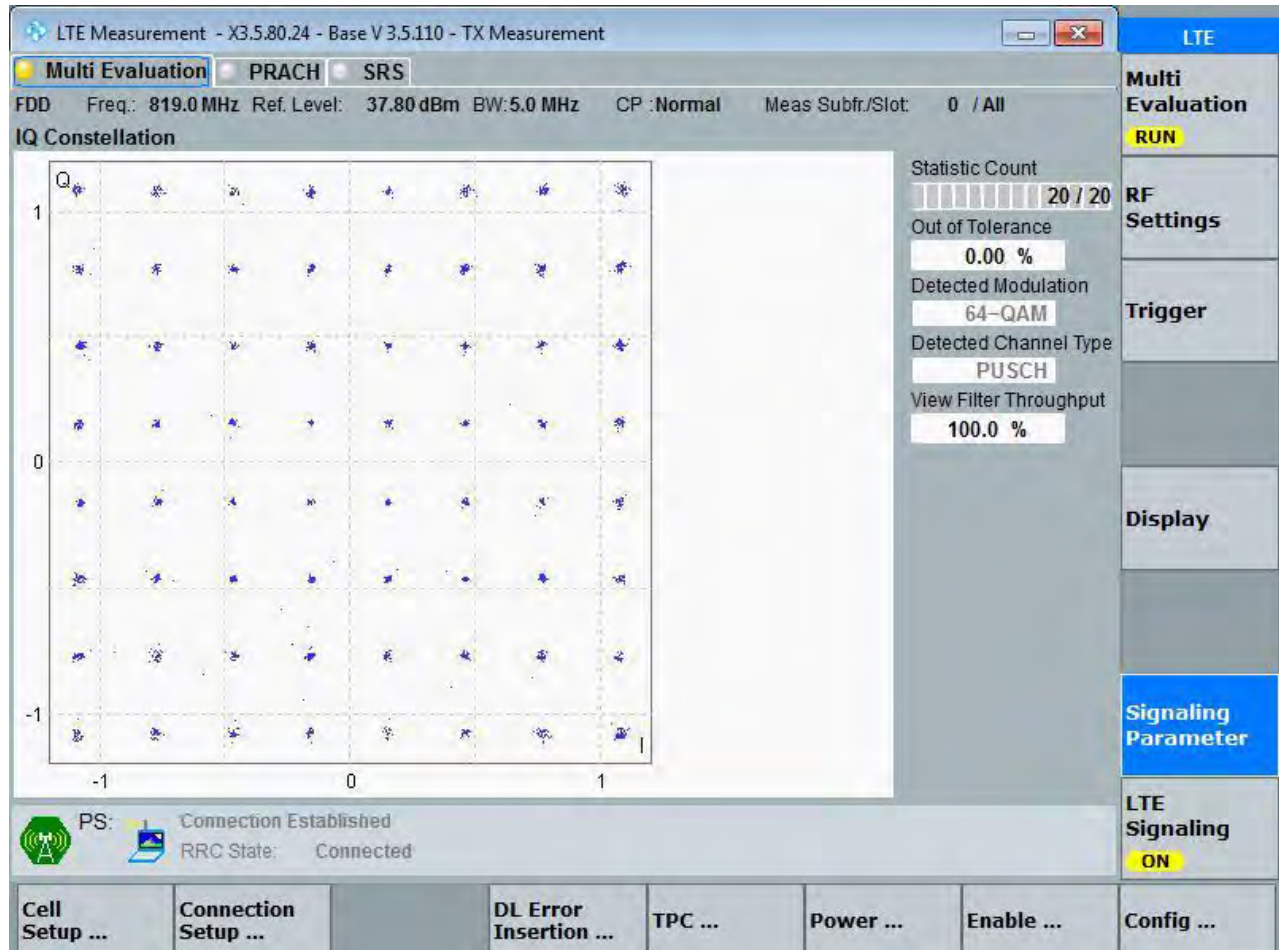
3.1.1.10.1 Test Channel = MCH





3.1.1.11 Test Mode = LTE /TM3 5MHz

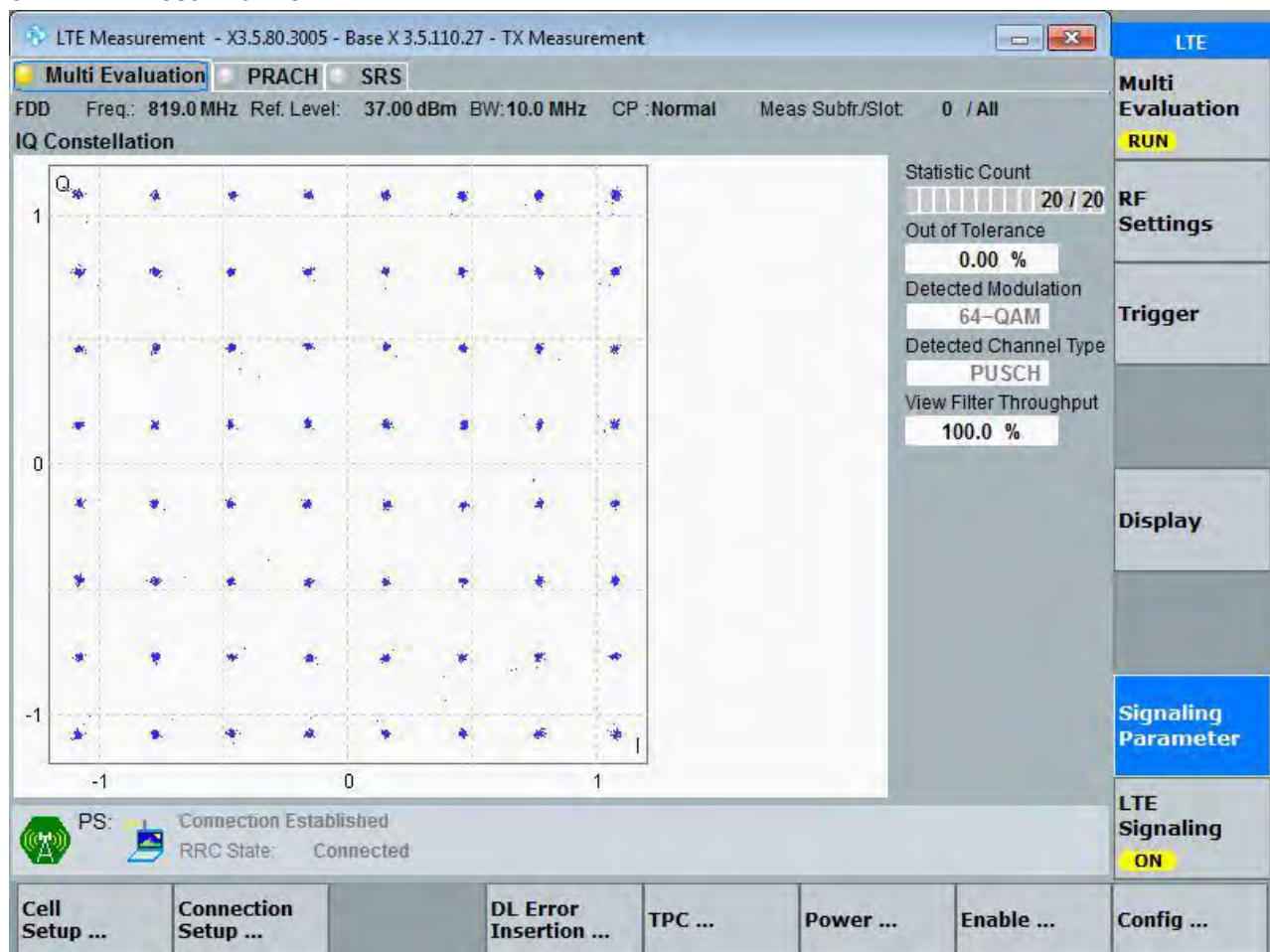
3.1.1.11.1 Test Channel = MCH





3.1.1.12 Test Mode = LTE /TM3 10MHz

3.1.1.12.1 Test Channel = MCH





4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 26(814-824)	TM1/1.4MHz	LCH	1.08	1.23	PASS
		MCH	1.08	1.23	PASS
		HCH	1.08	1.23	PASS
	TM2/1.4MHz	LCH	1.08	1.22	PASS
		MCH	1.08	1.22	PASS
		HCH	1.08	1.22	PASS
	TM3/1.4MHz	LCH	1.08	1.22	PASS
		MCH	1.08	1.22	PASS
		HCH	1.08	1.22	PASS
	TM1/ 3MHz	LCH	2.69	2.93	PASS
		MCH	2.68	2.93	PASS
		HCH	2.68	2.95	PASS
	TM2/3MHz	LCH	2.68	2.94	PASS
		MCH	2.68	2.96	PASS
		HCH	2.68	2.94	PASS
	TM3/3MHz	LCH	2.68	2.91	PASS
		MCH	2.68	2.94	PASS
		HCH	2.68	2.94	PASS
	TM1/ 5MHz	LCH	4.46	4.88	PASS
		MCH	4.46	4.88	PASS
		HCH	4.46	4.87	PASS
	TM2/ 5MHz	LCH	4.46	4.87	PASS
		MCH	4.46	4.87	PASS
		HCH	4.46	4.86	PASS
	TM3/5MHz	LCH	4.48	4.88	PASS
		MCH	4.48	4.88	PASS
		HCH	4.48	4.87	PASS
	TM1/10MHz	LCH	\	\	PASS
		MCH	8.93	9.63	PASS
		HCH	\	\	PASS
	TM2/ 10MHz	LCH	\	\	PASS
		MCH	8.91	9.58	PASS
		HCH	\	\	PASS

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Shenzhen Branch

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Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
	TM3/ 10MHz	LCH	\	\	PASS
		MCH	8.95	9.67	PASS
		HCH	\	\	PASS

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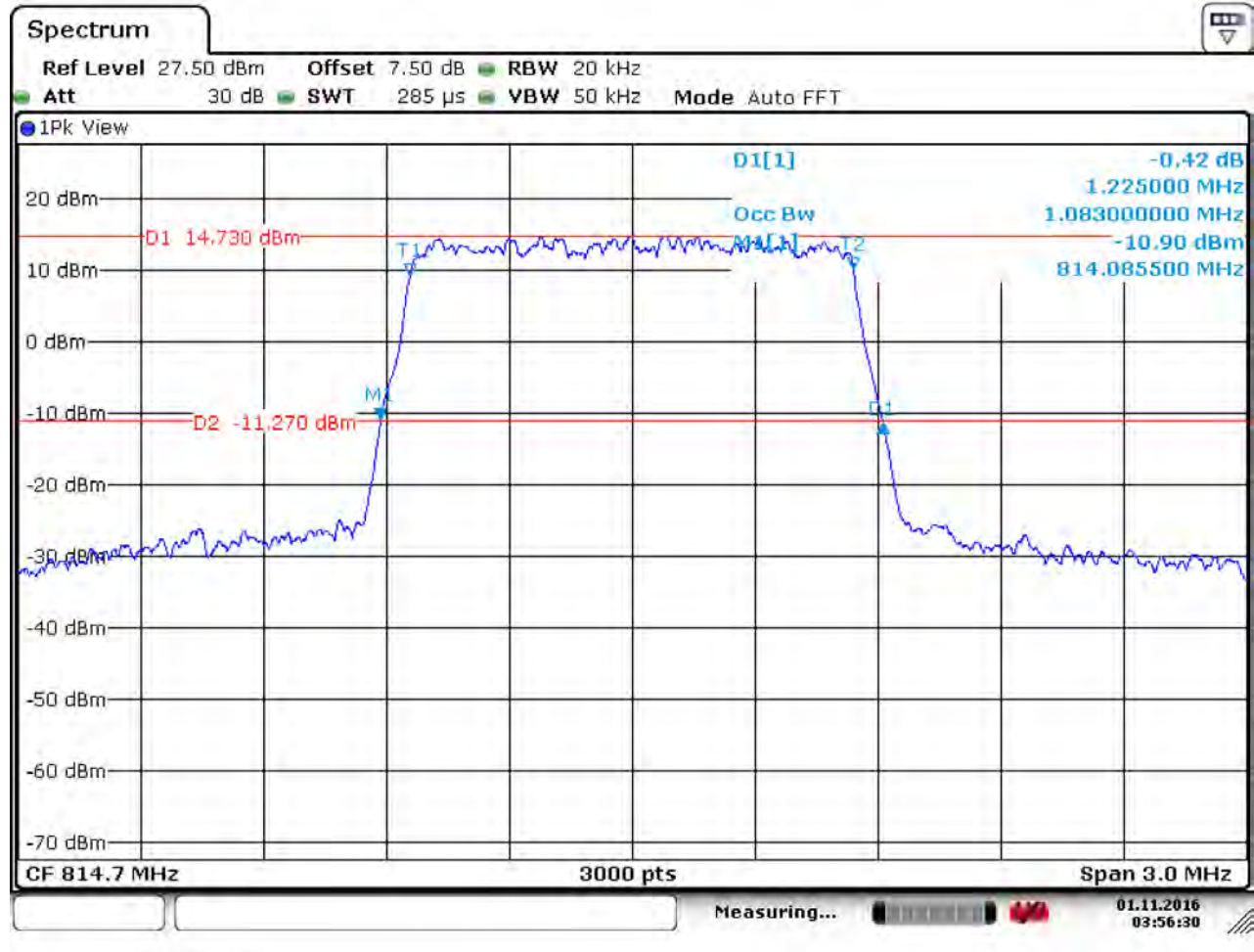


4.1 For LTE

4.1.1 Test Band = LTE band26(814-824)

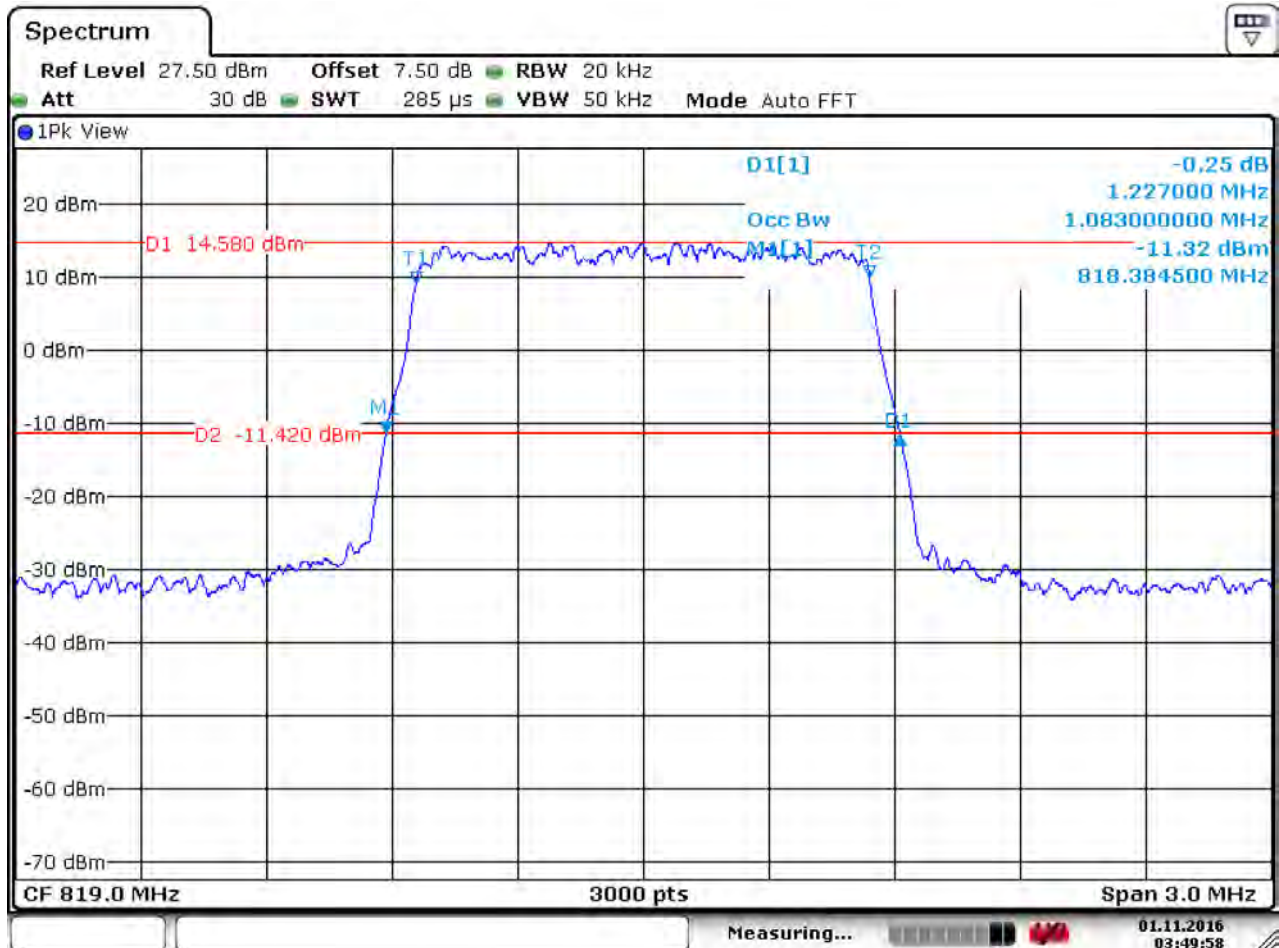
4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH



Date: 1.NOV.2016 03:56:30

4.1.1.1.2 Test Channel = MCH

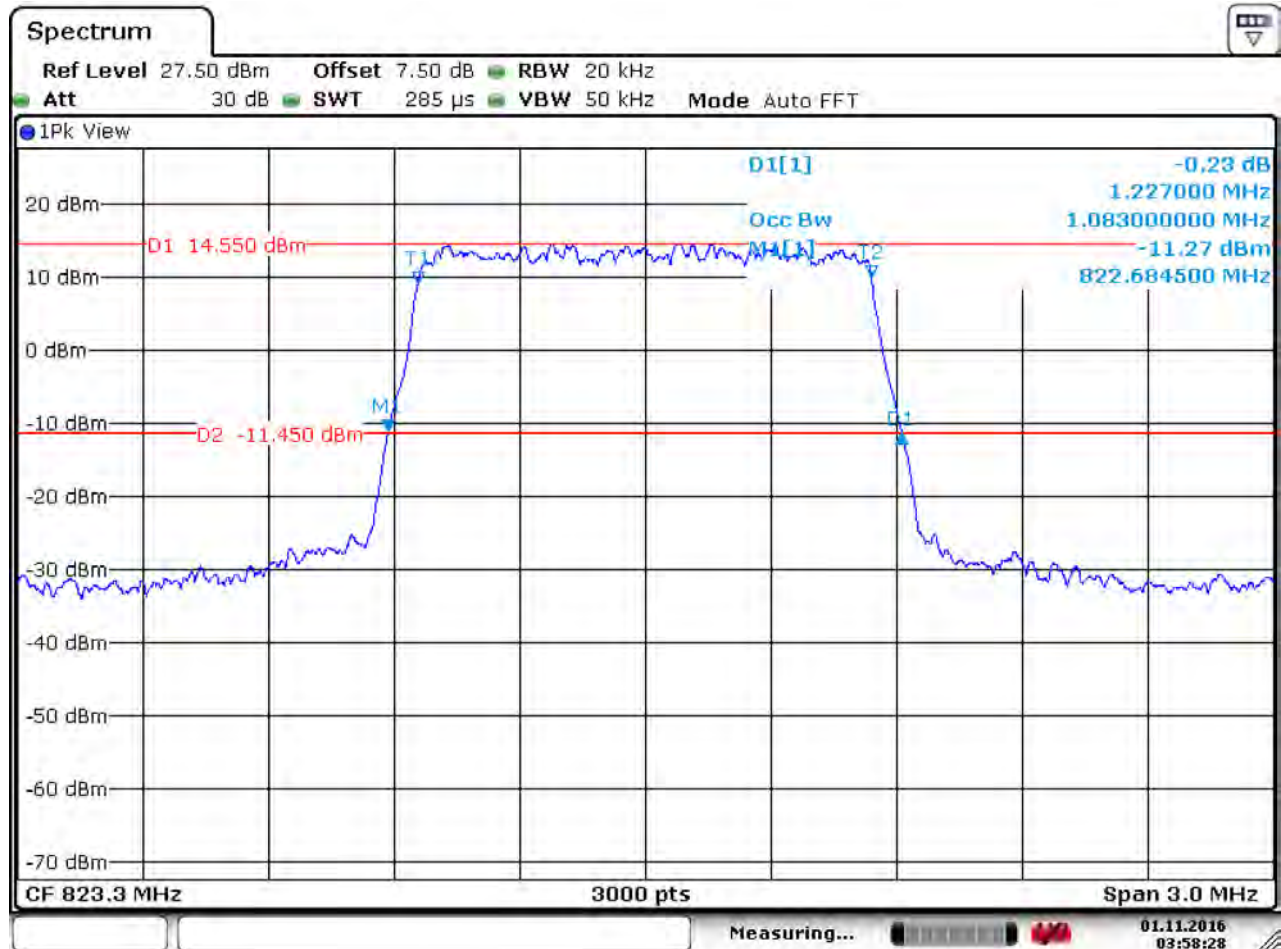


Date: 1.NOV.2016 03:49:59

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4.1.1.1.3 Test Channel = HCH

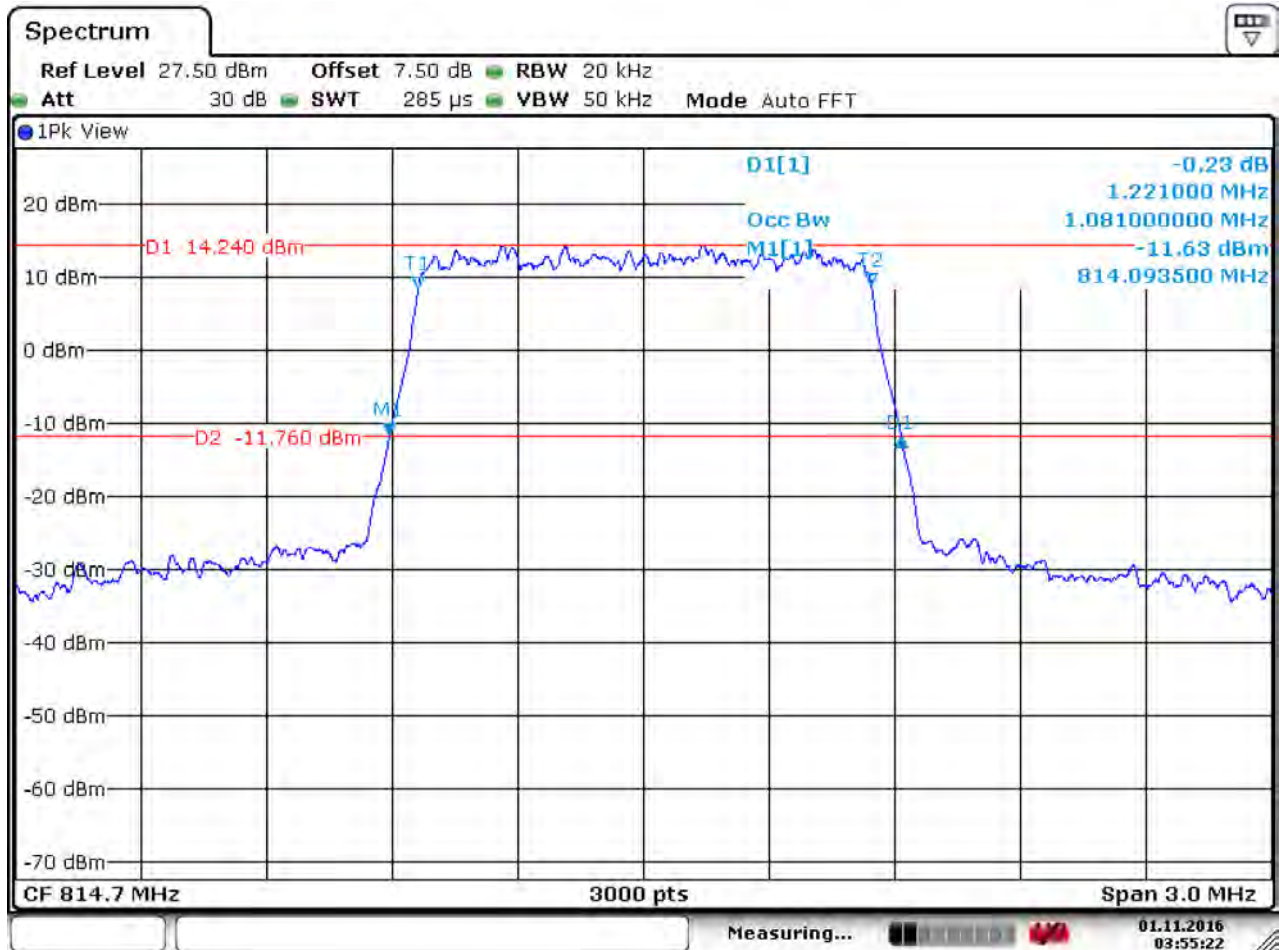


Date: 1.NOV.2016 03:58:29



4.1.1.2 Test Mode = LTE/TM2 1.4MHz

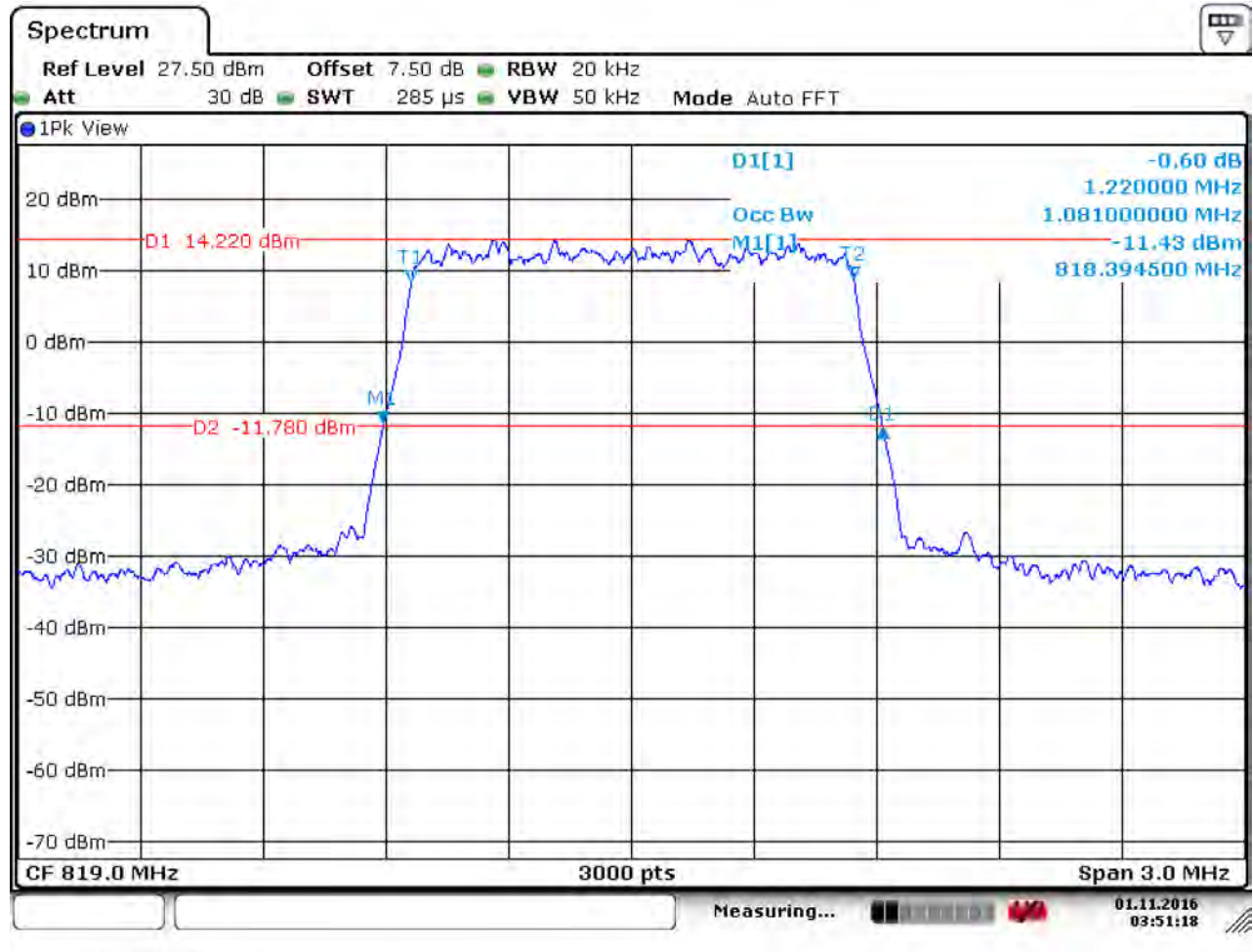
4.1.1.2.1 Test Channel = LCH



Date: 1.NOV.2016 03:55:22



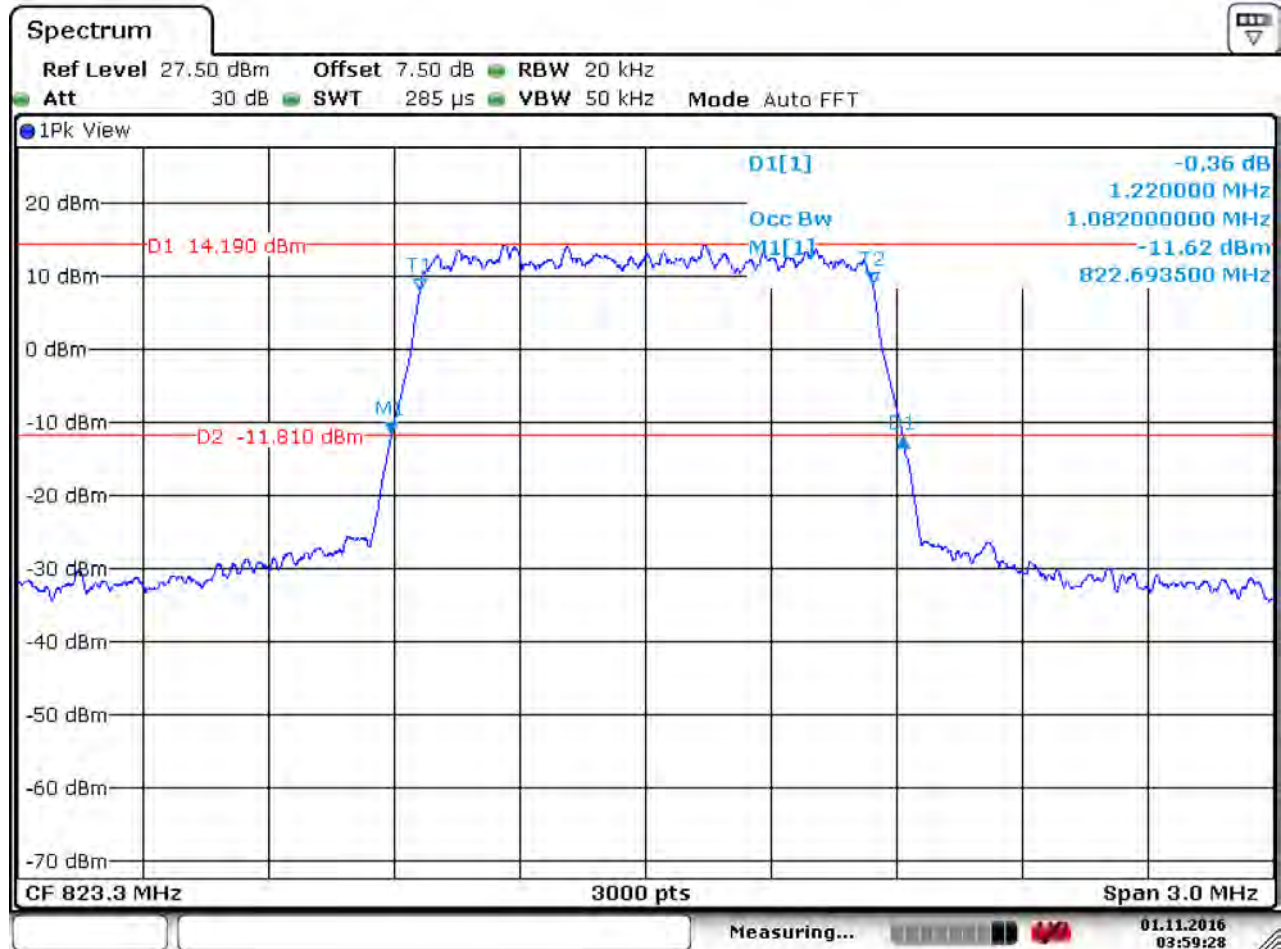
4.1.1.2.2 Test Channel = MCH



Date: 1.NOV.2016 03:51:19



4.1.1.2.3 Test Channel = HCH

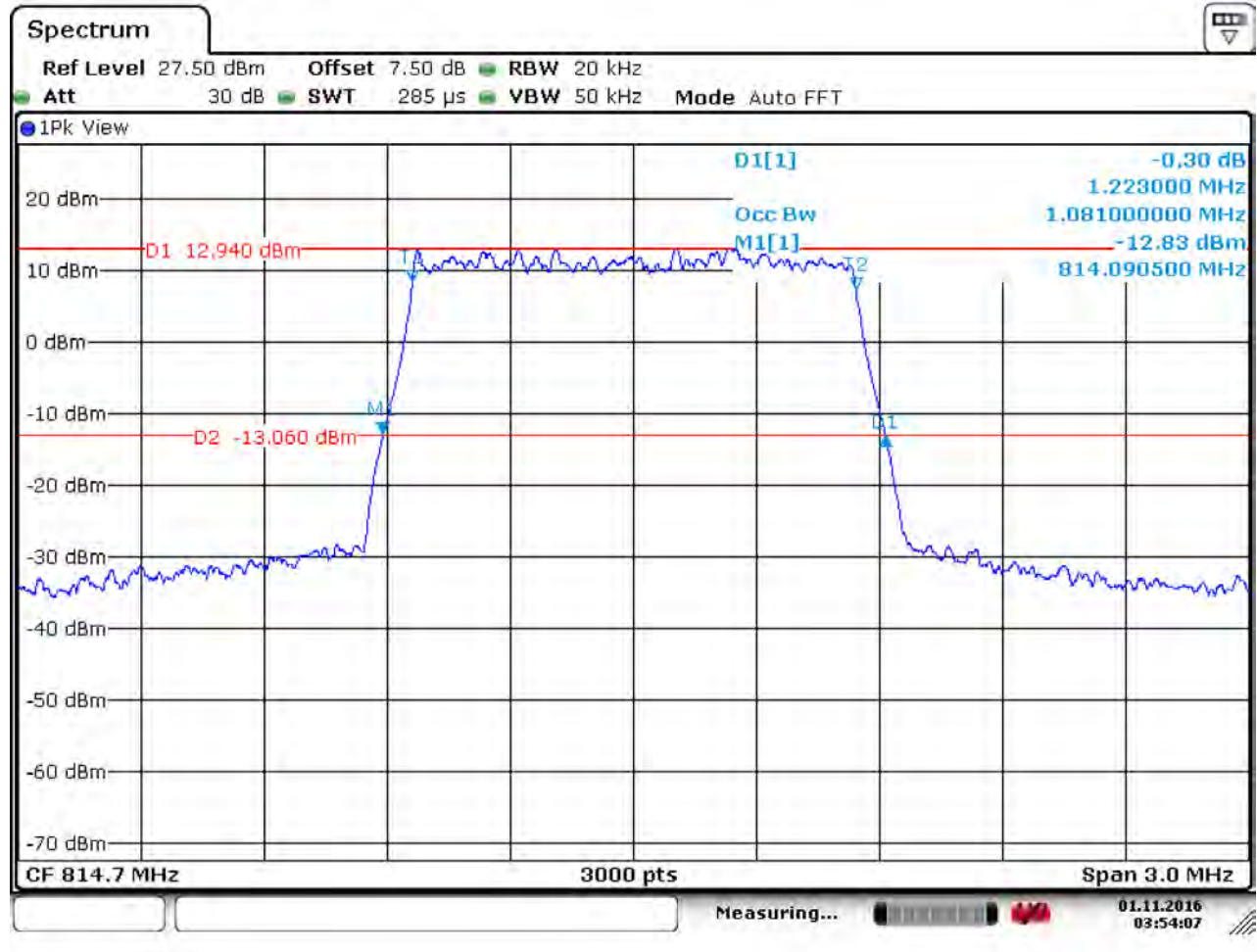


Date: 1.NOV.2016 03:59:29



4.1.1.3 Test Mode = LTE/TM3 1.4MHz

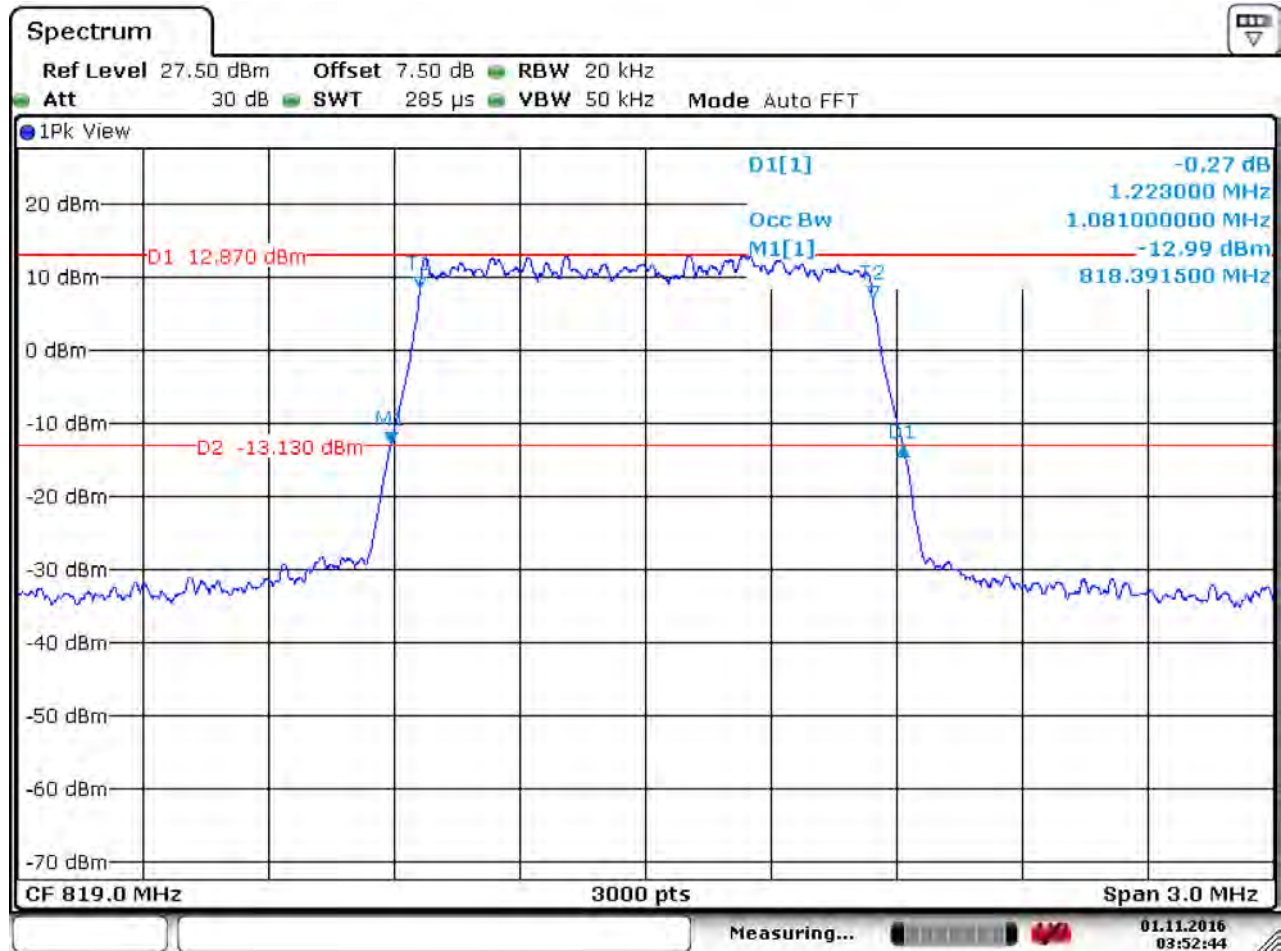
4.1.1.3.1 Test Channel = LCH



Date: 1.NOV.2016 03:54:07



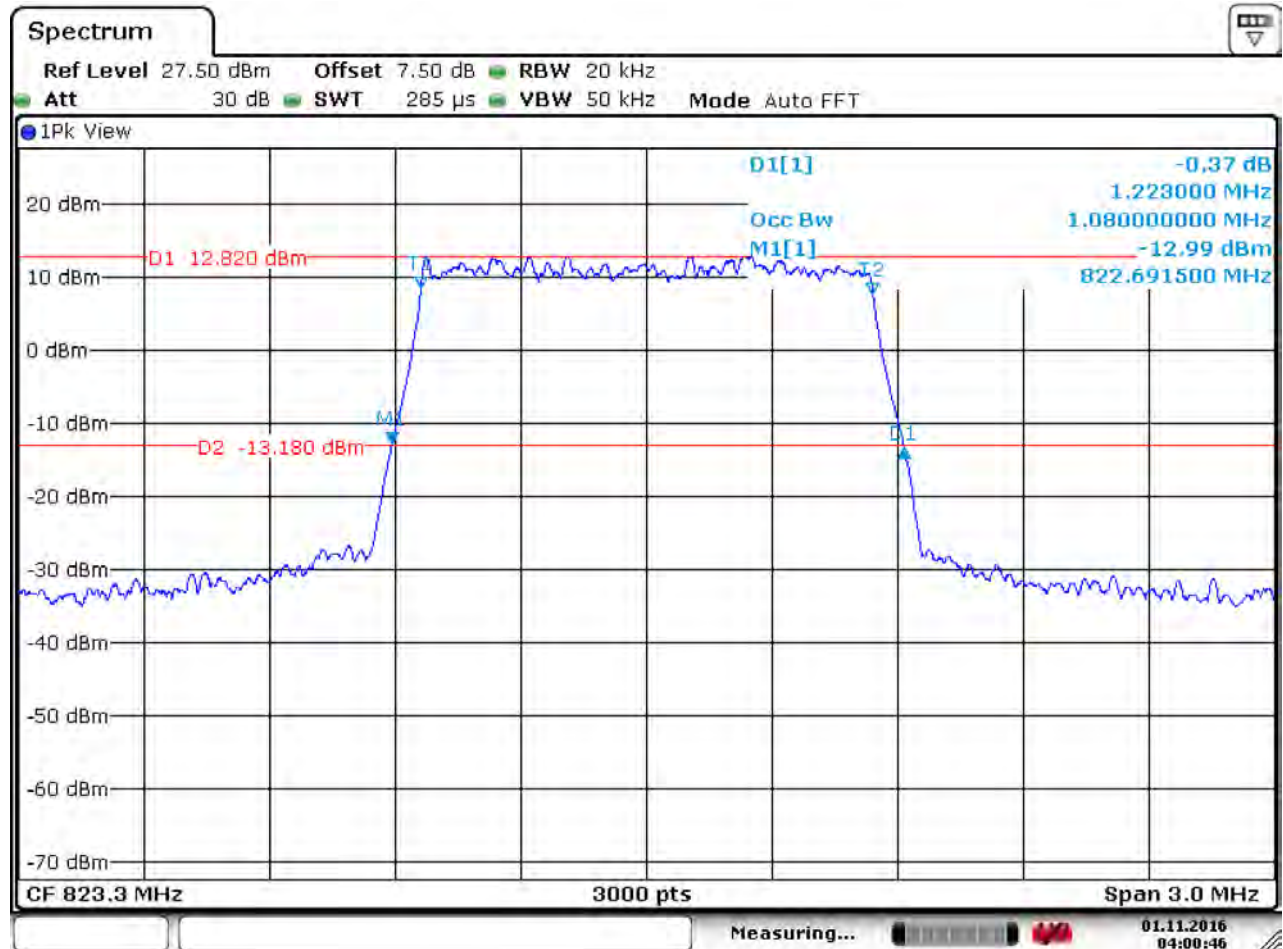
4.1.1.3.2 Test Channel = MCH



Date: 1.NOV.2016 03:52:44



4.1.1.3.3 Test Channel = HCH

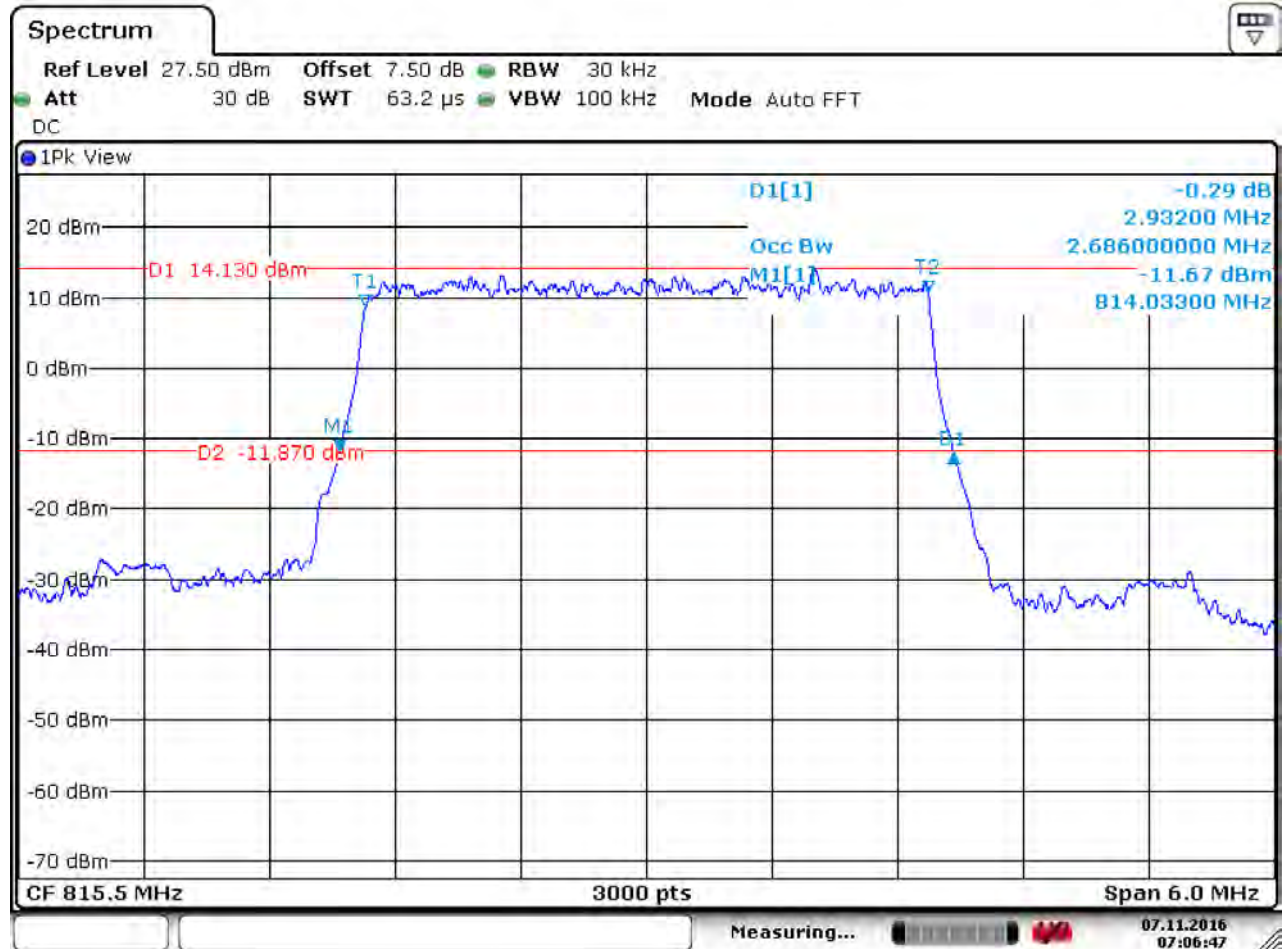


Date: 1.NOV.2016 04:00:47



4.1.1.4 Test Mode = LTE/TM1 3MHz

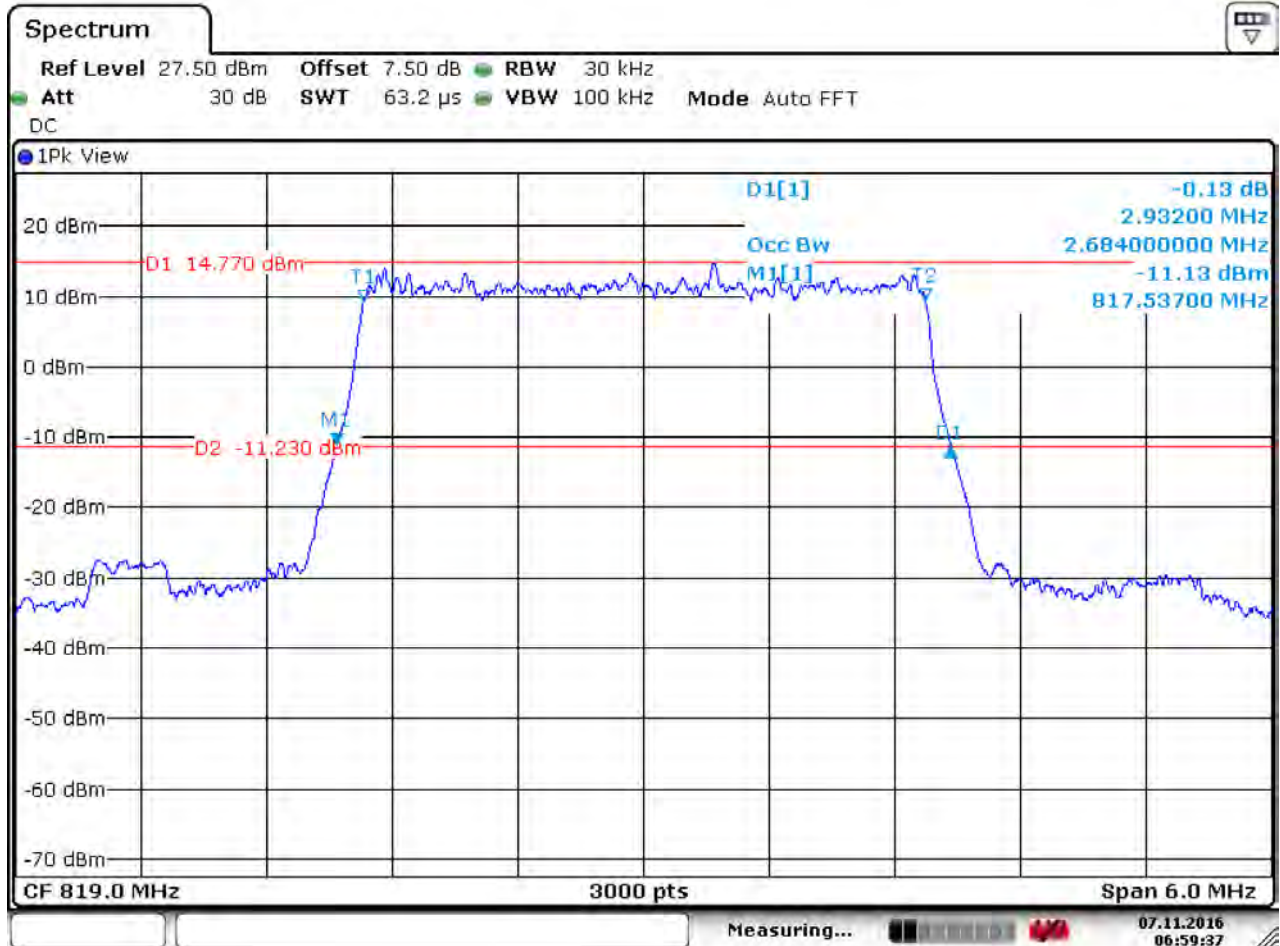
4.1.1.4.1 Test Channel = LCH



Date: 7.NOV.2016 07:06:47



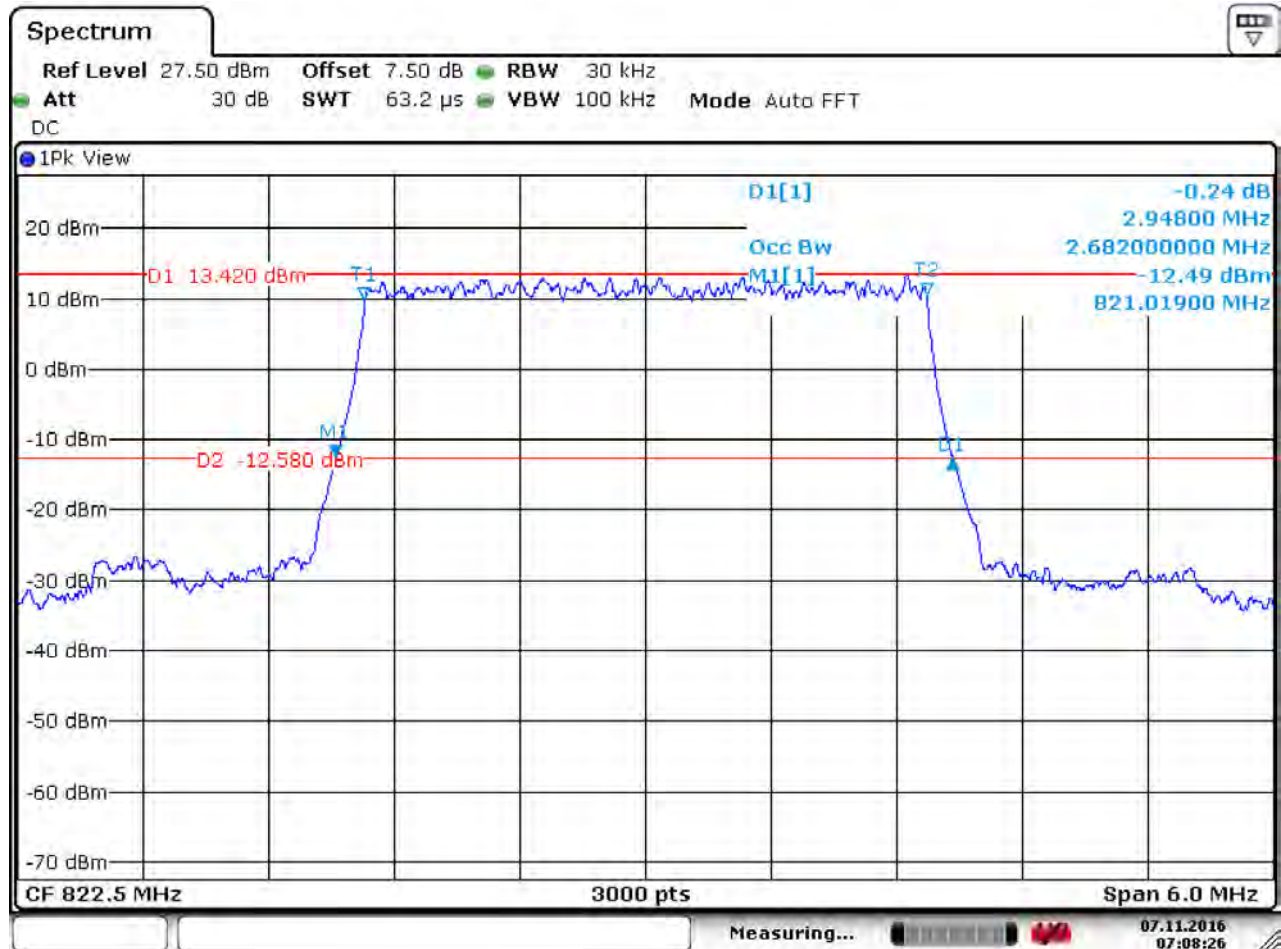
4.1.1.4.2 Test Channel = MCH



Date: 7.NOV.2016 06:59:37



4.1.1.4.3 Test Channel = HCH

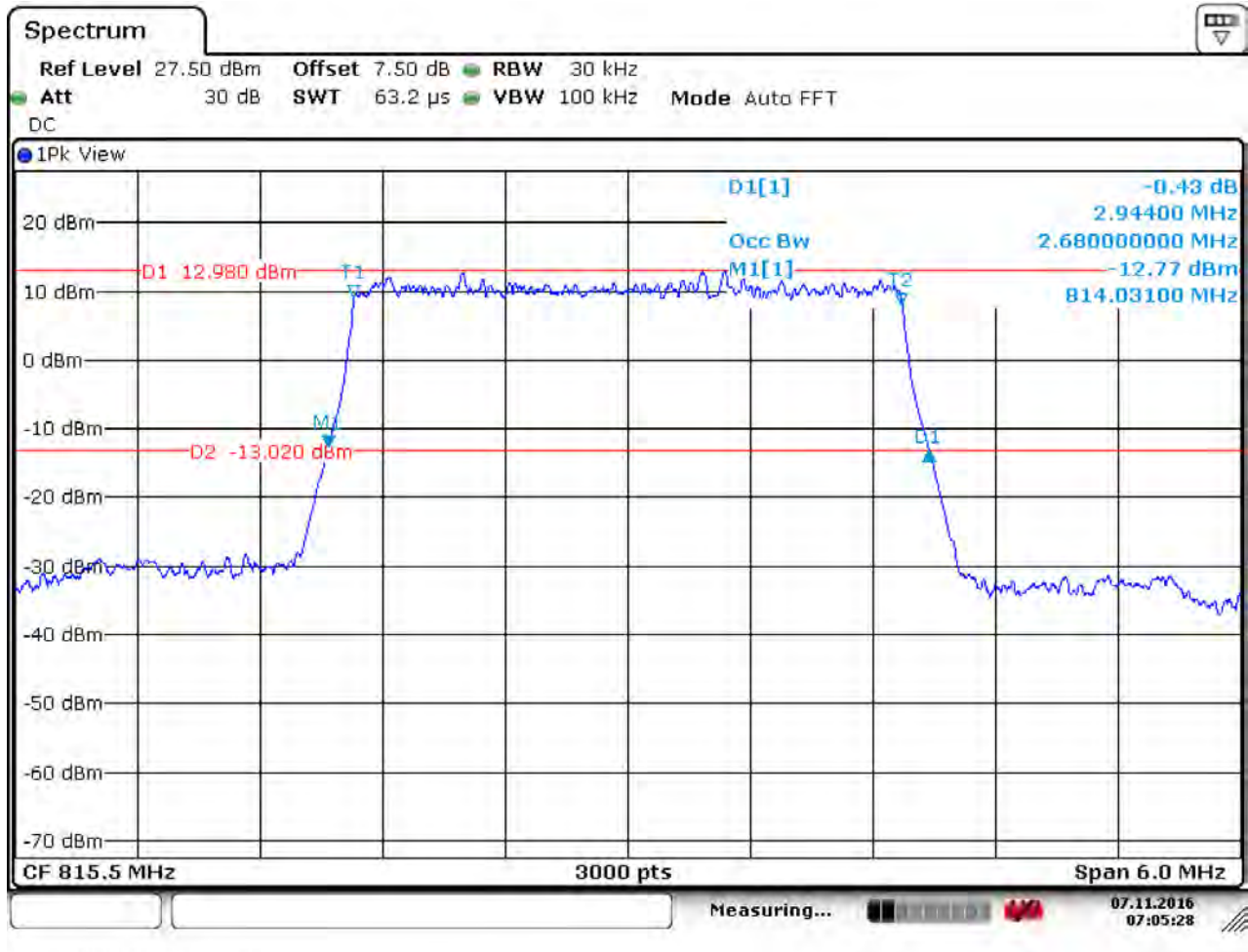


Date: 7.NOV.2016 07:08:26



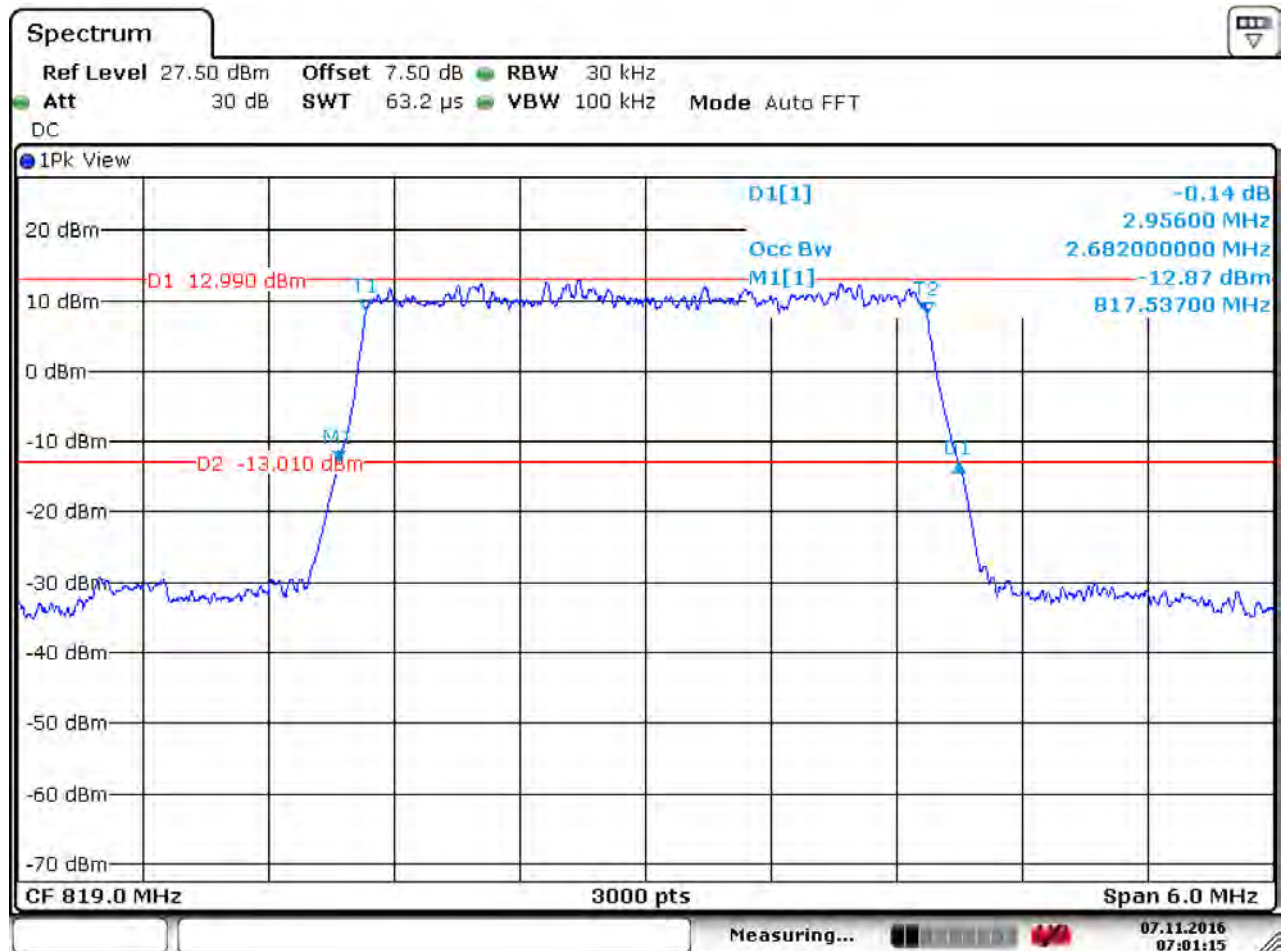
4.1.1.5 Test Mode = LTE/TM2 3MHz

4.1.1.5.1 Test Channel = LCH



Date: 7.NOV.2016 07:05:29

4.1.1.5.2 Test Channel = MCH

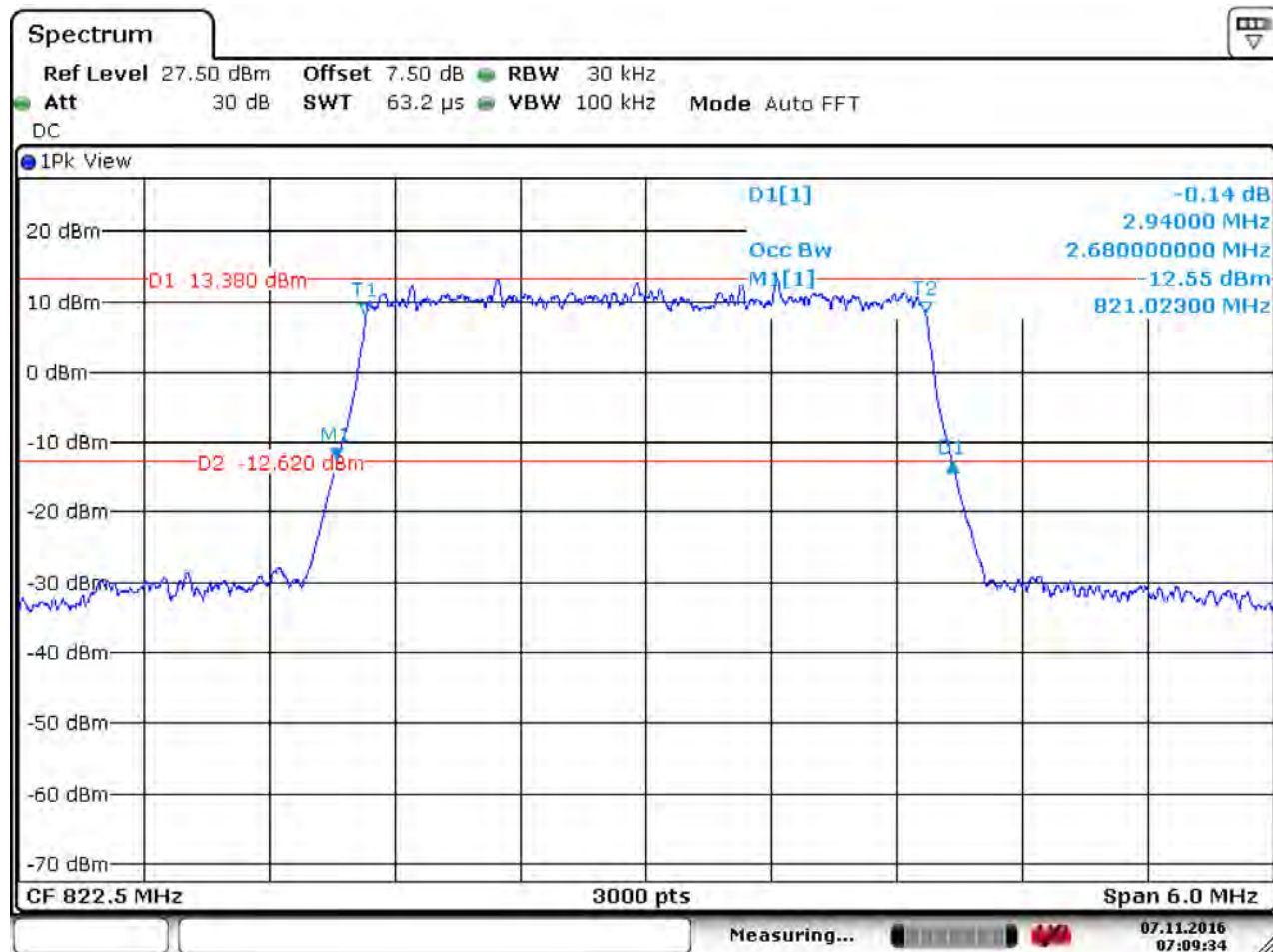


Date: 7.NOV.2016 07:01:16

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4.1.1.5.3 Test Channel = HCH

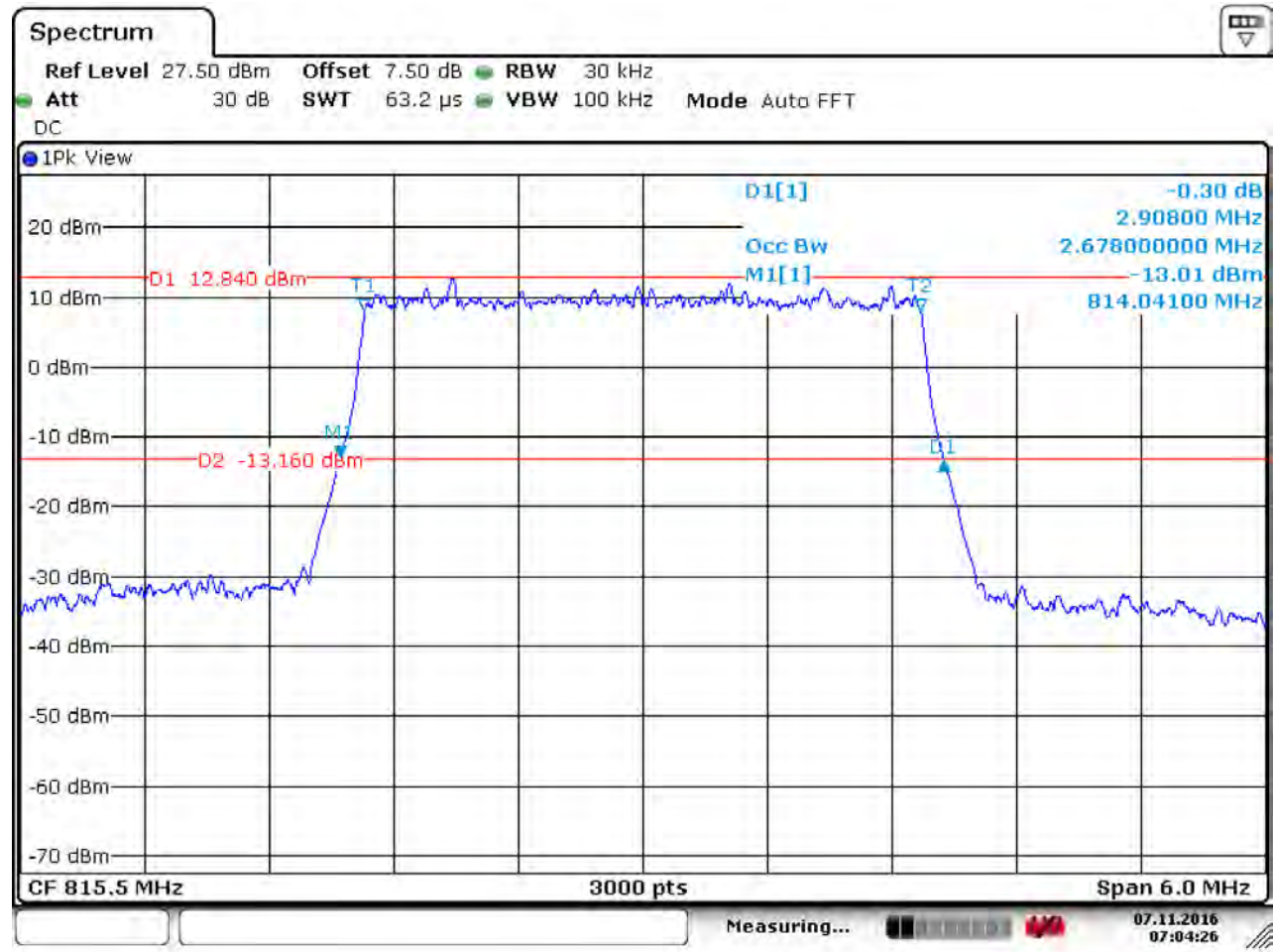


Date: 7.NOV.2016 07:09:34



4.1.1.6 Test Mode = LTE/TM3 3MHz

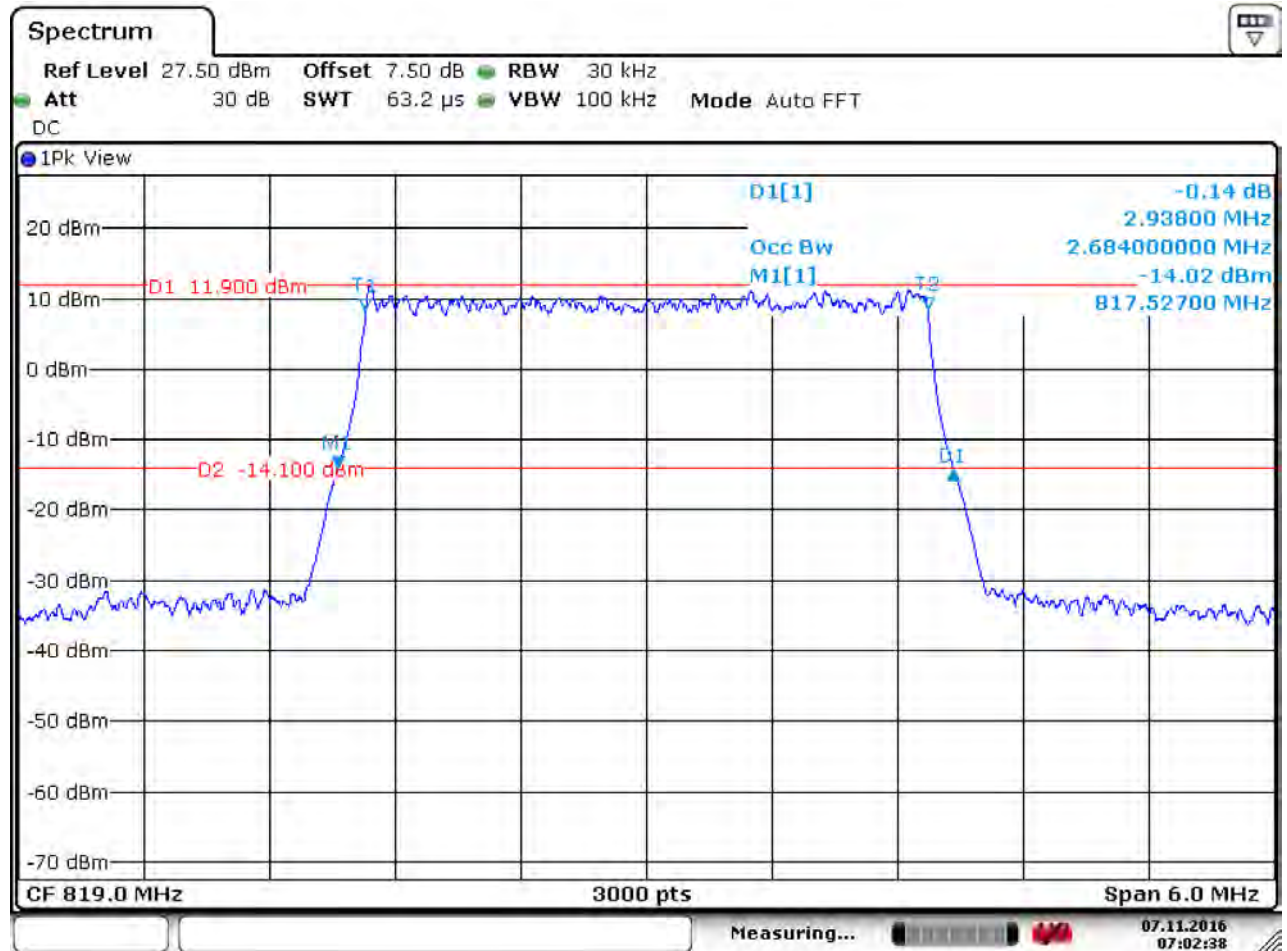
4.1.1.6.1 Test Channel = LCH



Date: 7.NOV.2016 07:04:26



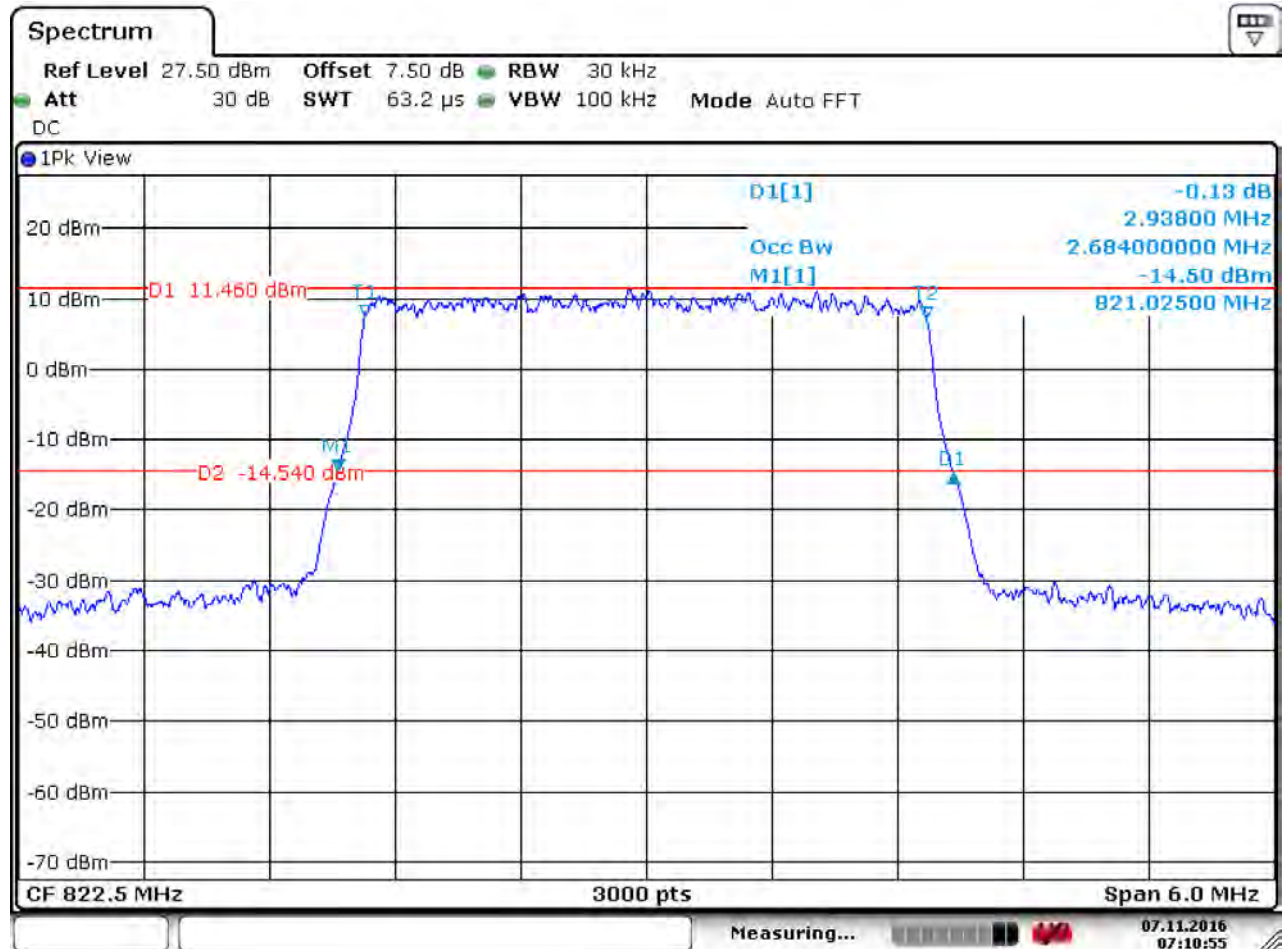
4.1.1.6.2 Test Channel =MCH



Date: 7.NOV.2016 07:02:39



4.1.1.6.3 Test Channel = HCH

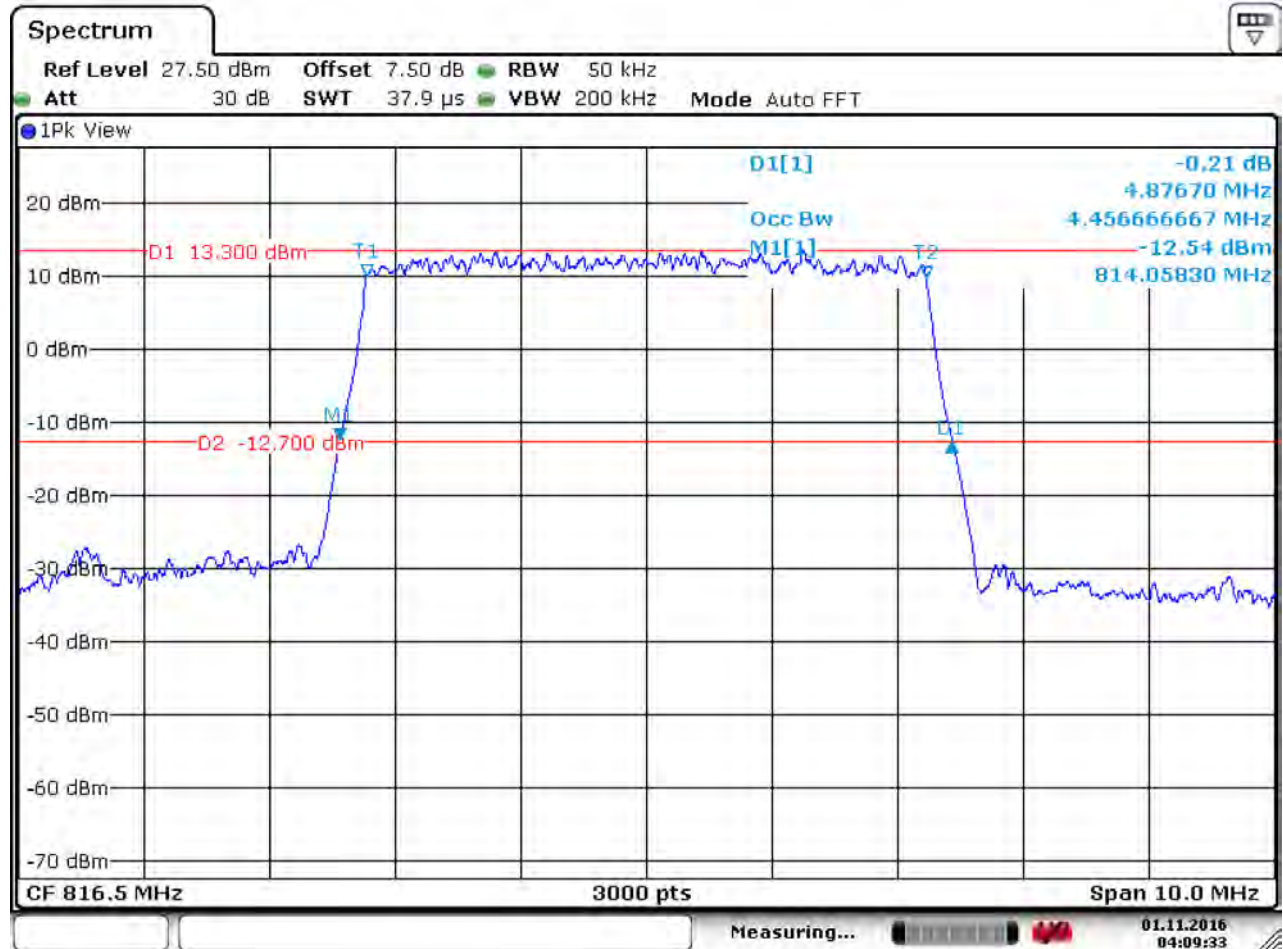


Date: 7.NOV.2016 07:10:55



4.1.1.7 Test Mode = LTE/TM1 5MHz

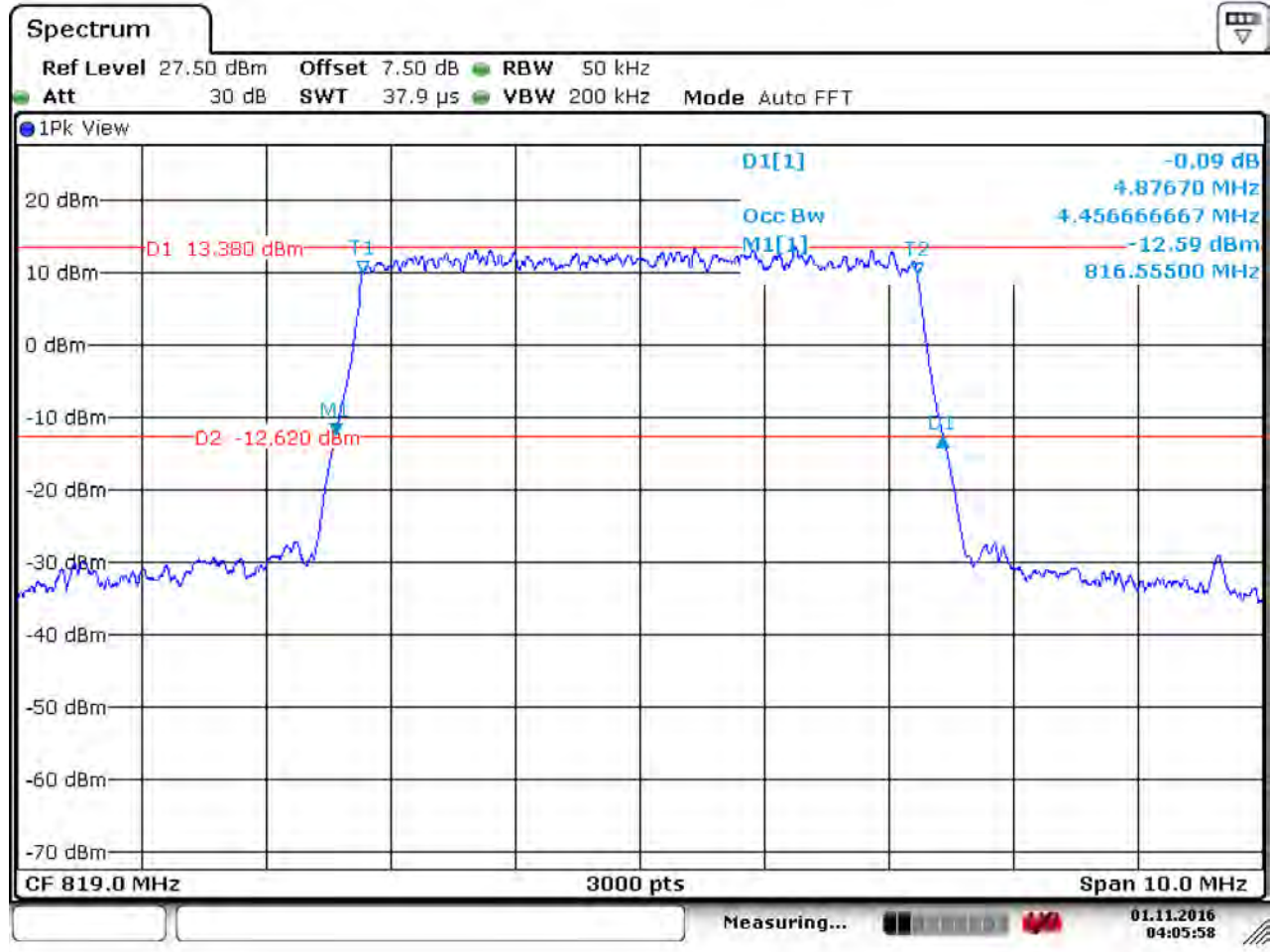
4.1.1.7.1 Test Channel = LCH



Date: 1.NOV.2016 04:09:33



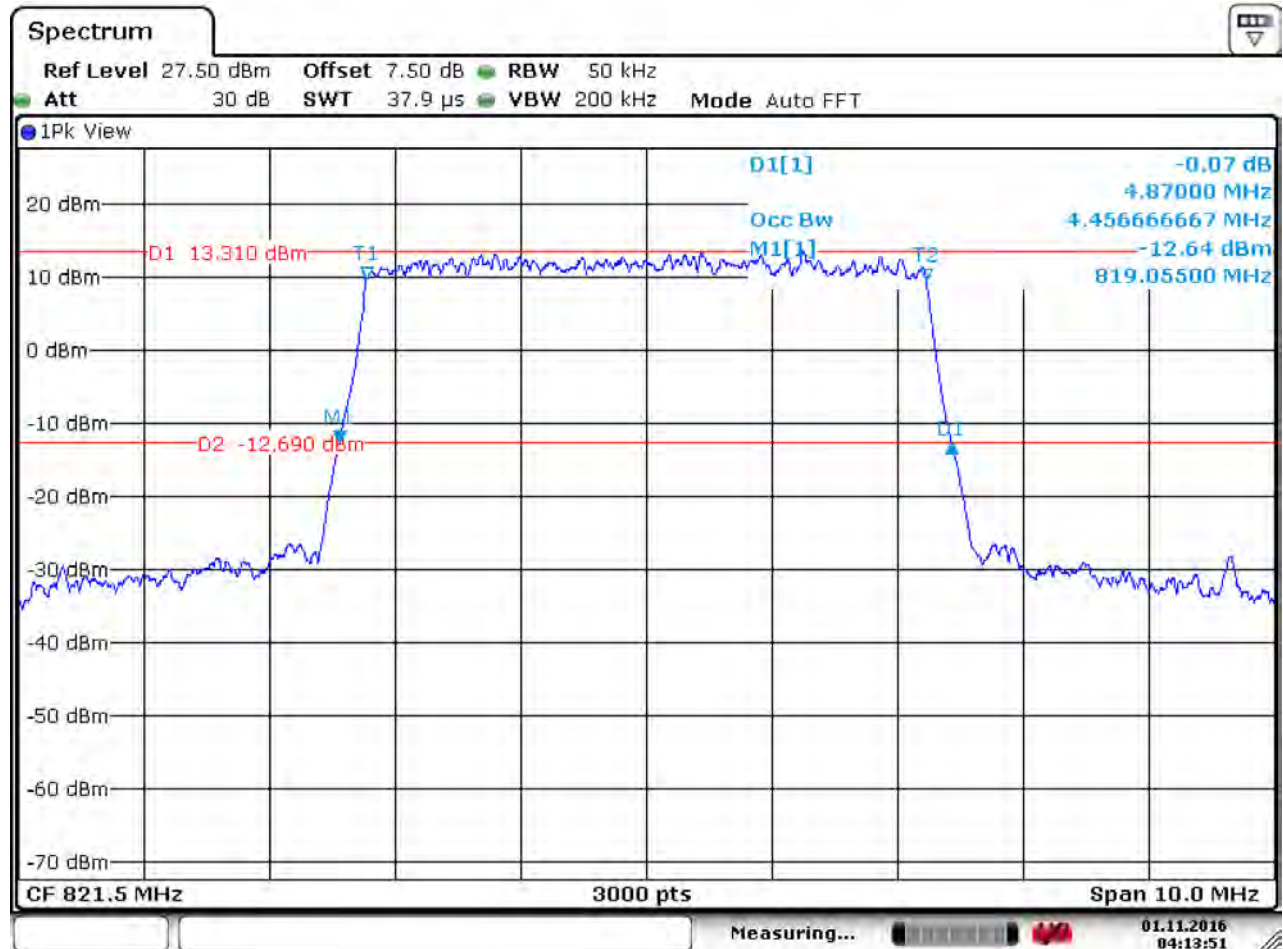
4.1.1.7.2 Test Channel = MCH



Date: 1.NOV.2016 04:05:58



4.1.1.7.3 Test Channel = HCH

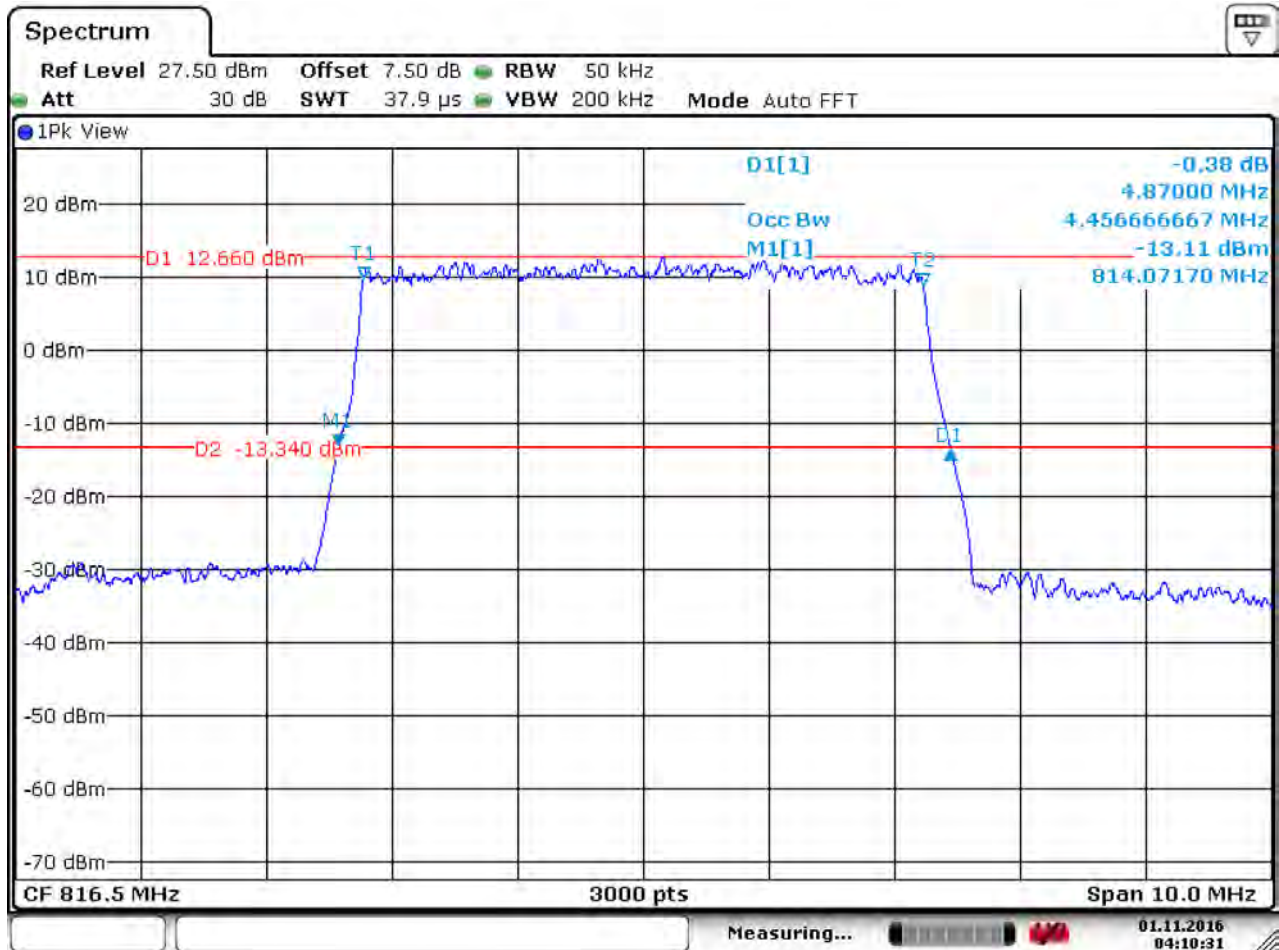


Date: 1.NOV.2016 04:13:52



4.1.1.8 Test Mode = LTE/TM2 5MHz

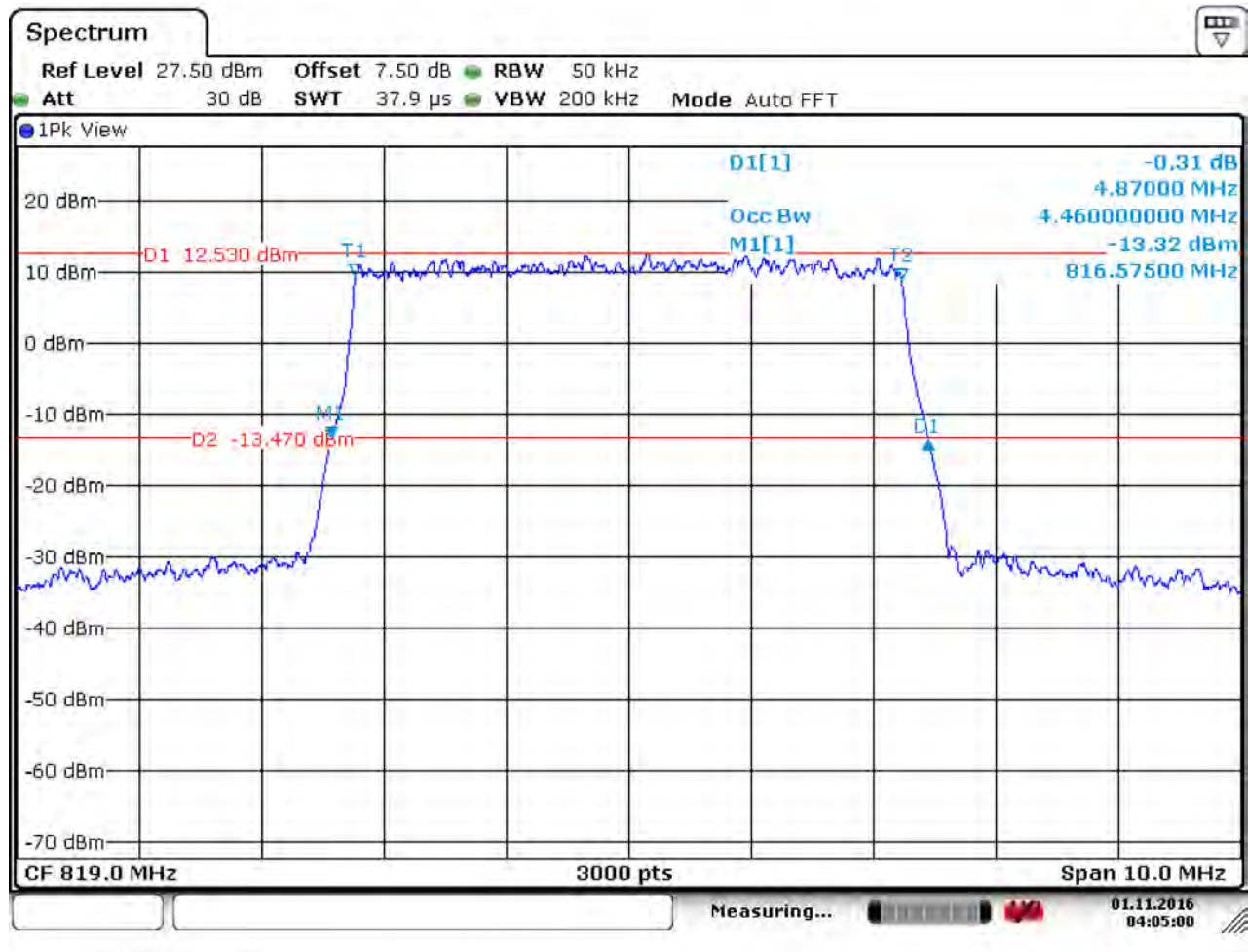
4.1.1.8.1 Test Channel = LCH



Date: 1.NOV.2016 04:10:32



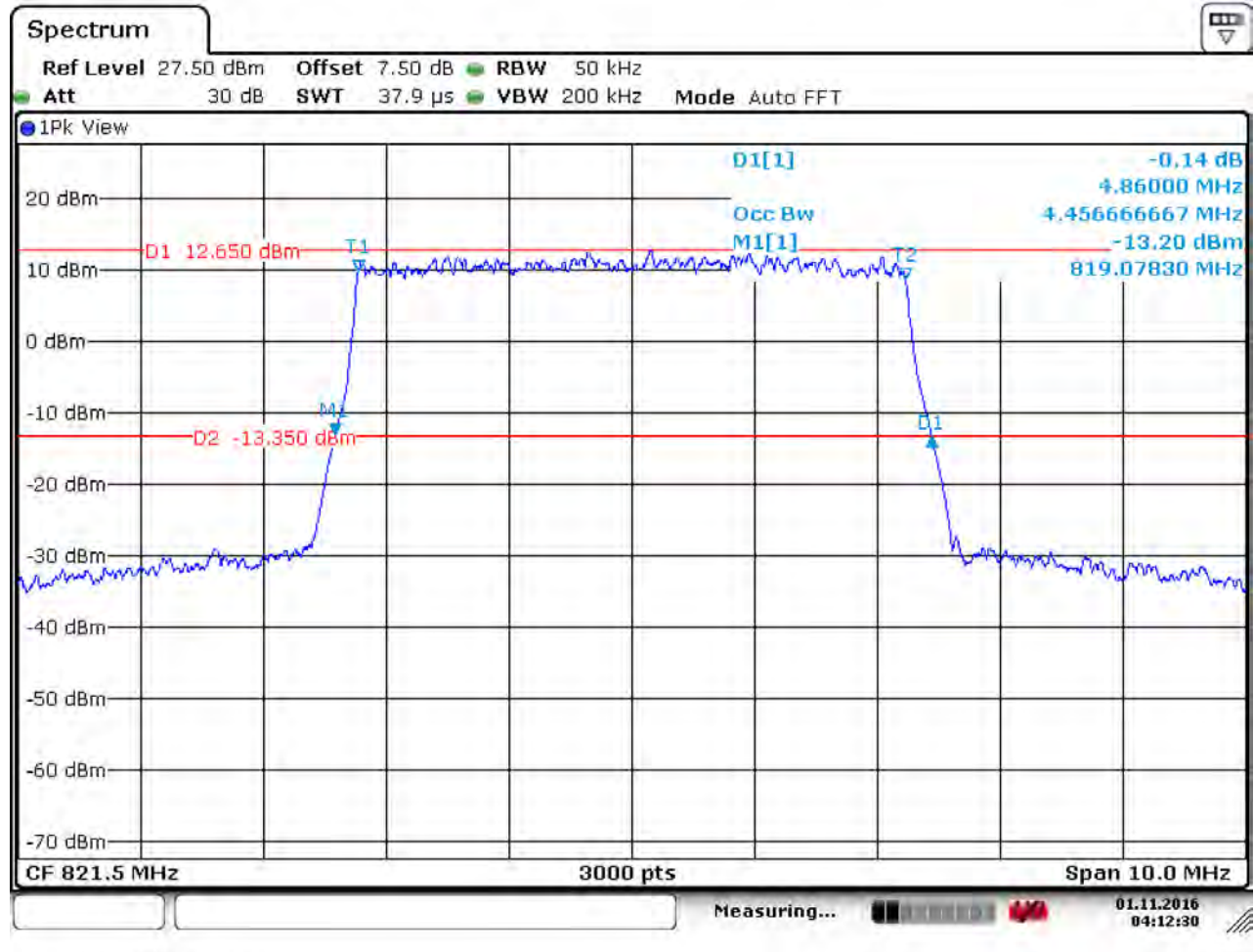
4.1.1.8.2 Test Channel = MCH



Date: 1.NOV.2016 04:05:00



4.1.1.8.3 Test Channel = HCH

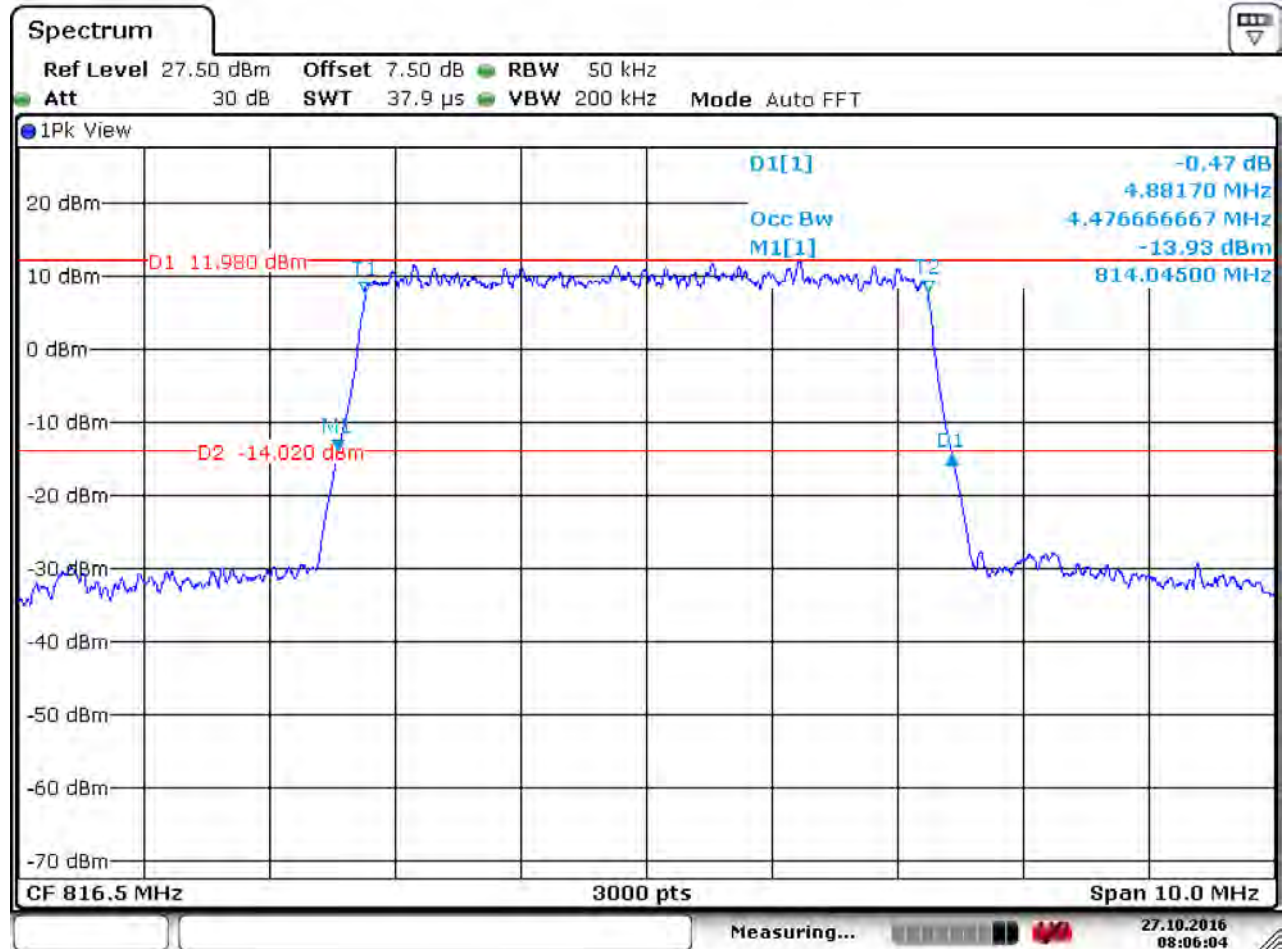


Date: 1.NOV.2016 04:12:31



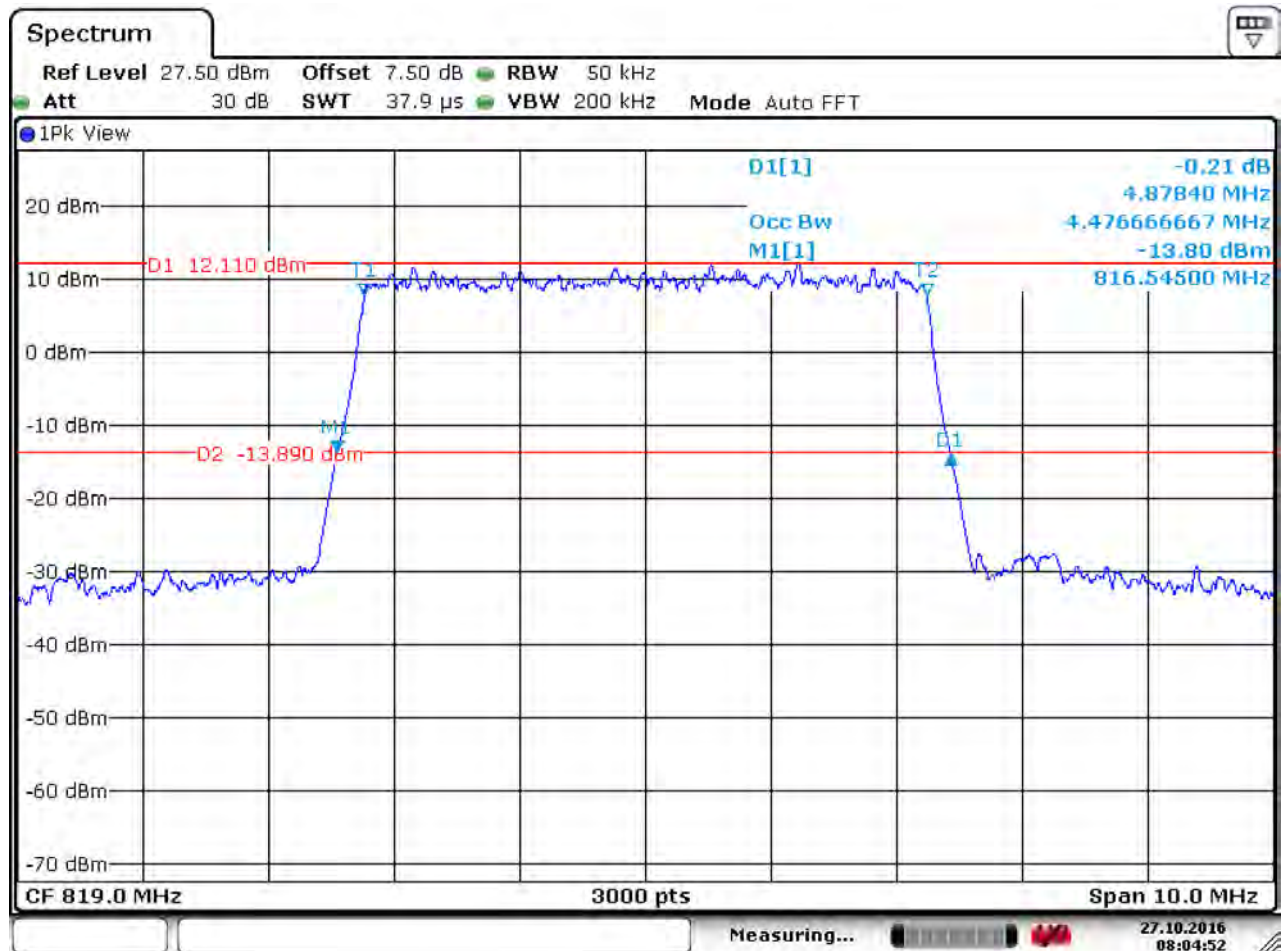
4.1.1.9 Test Mode = LTE/TM3 5MHz

4.1.1.9.1 Test Channel = LCH



Date: 27.OCT.2016 08:06:05

4.1.1.9.2 Test Channel = MCH

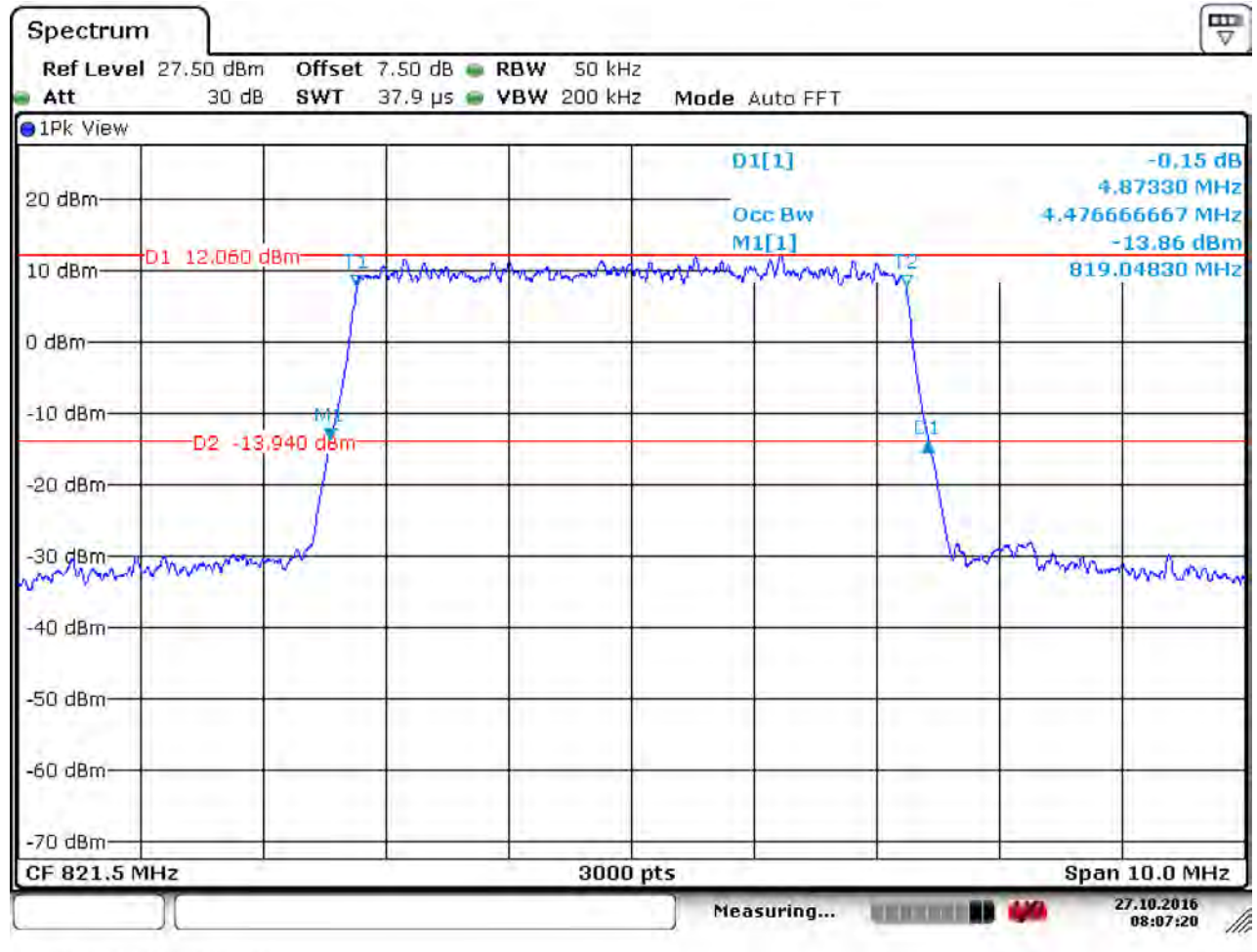


Date: 27.OCT.2016 08:04:53

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4.1.1.9.3 Test Channel = HCH

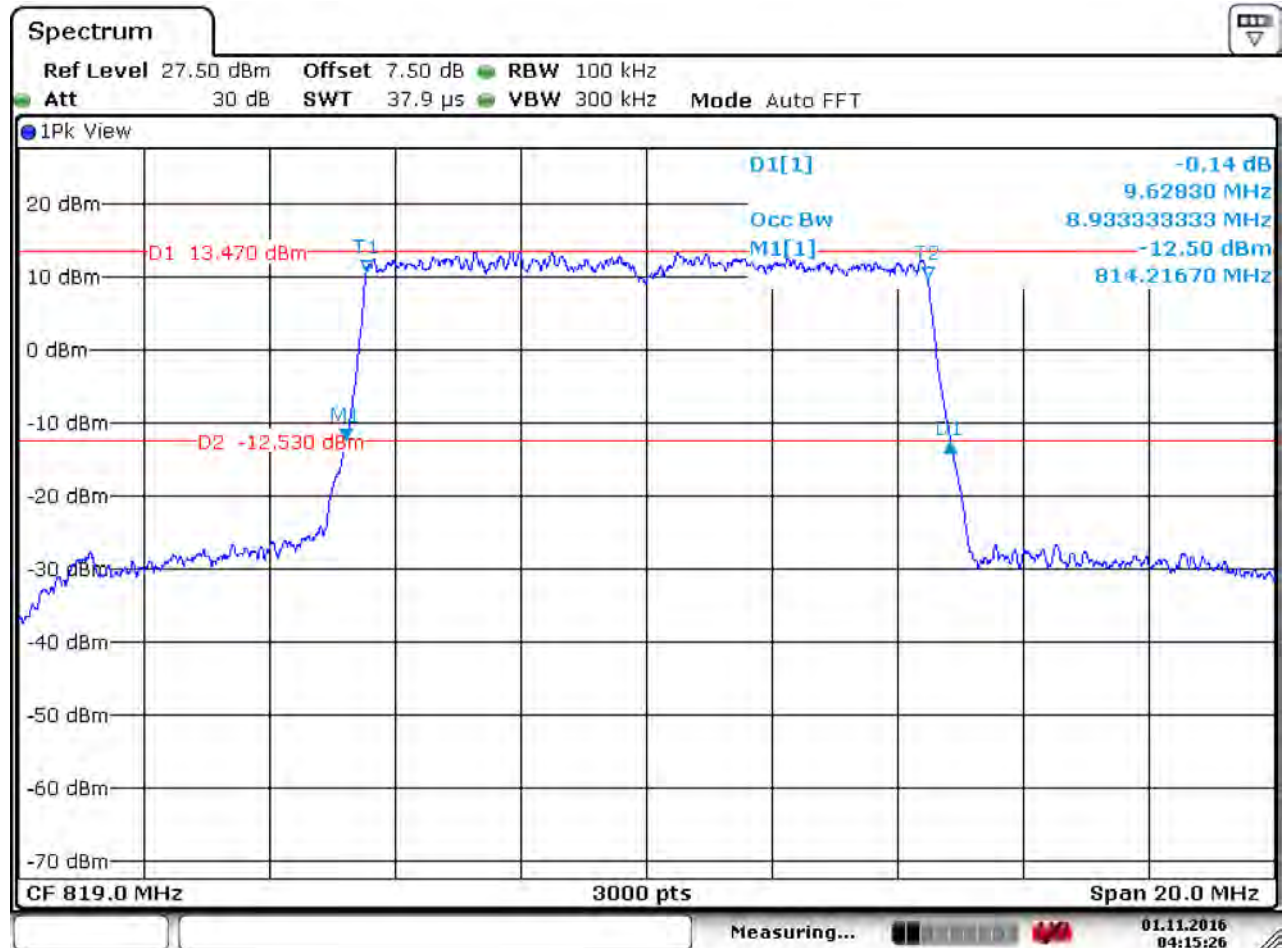


Date: 27.OCT.2016 08:07:20



4.1.1.10 Test Mode = LTE/TM1 10MHz

4.1.1.10.1 Test Channel = MCH

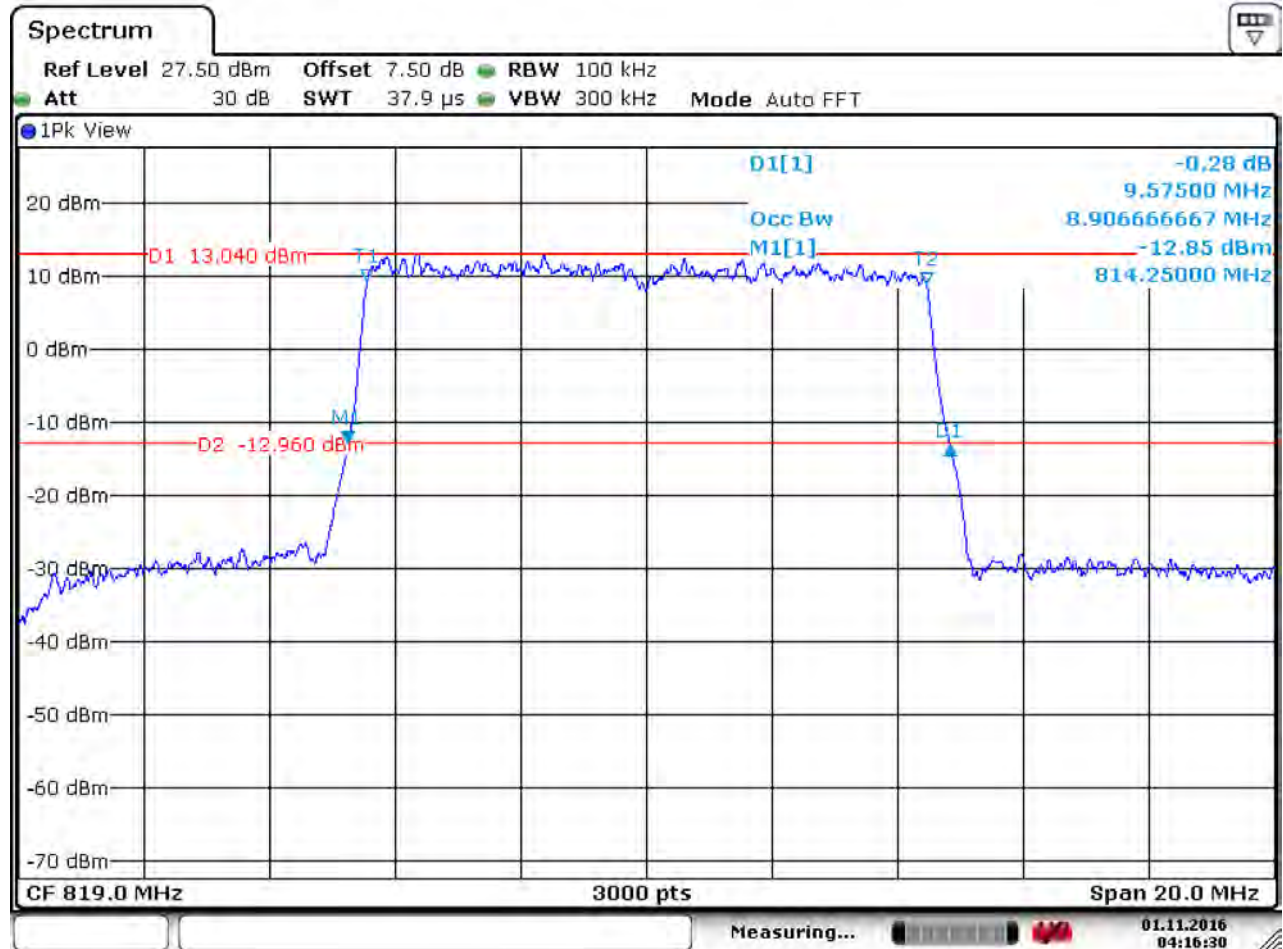


Date: 1.NOV.2016 04:15:27



4.1.1.11 Test Mode = LTE/TM2 10MHz

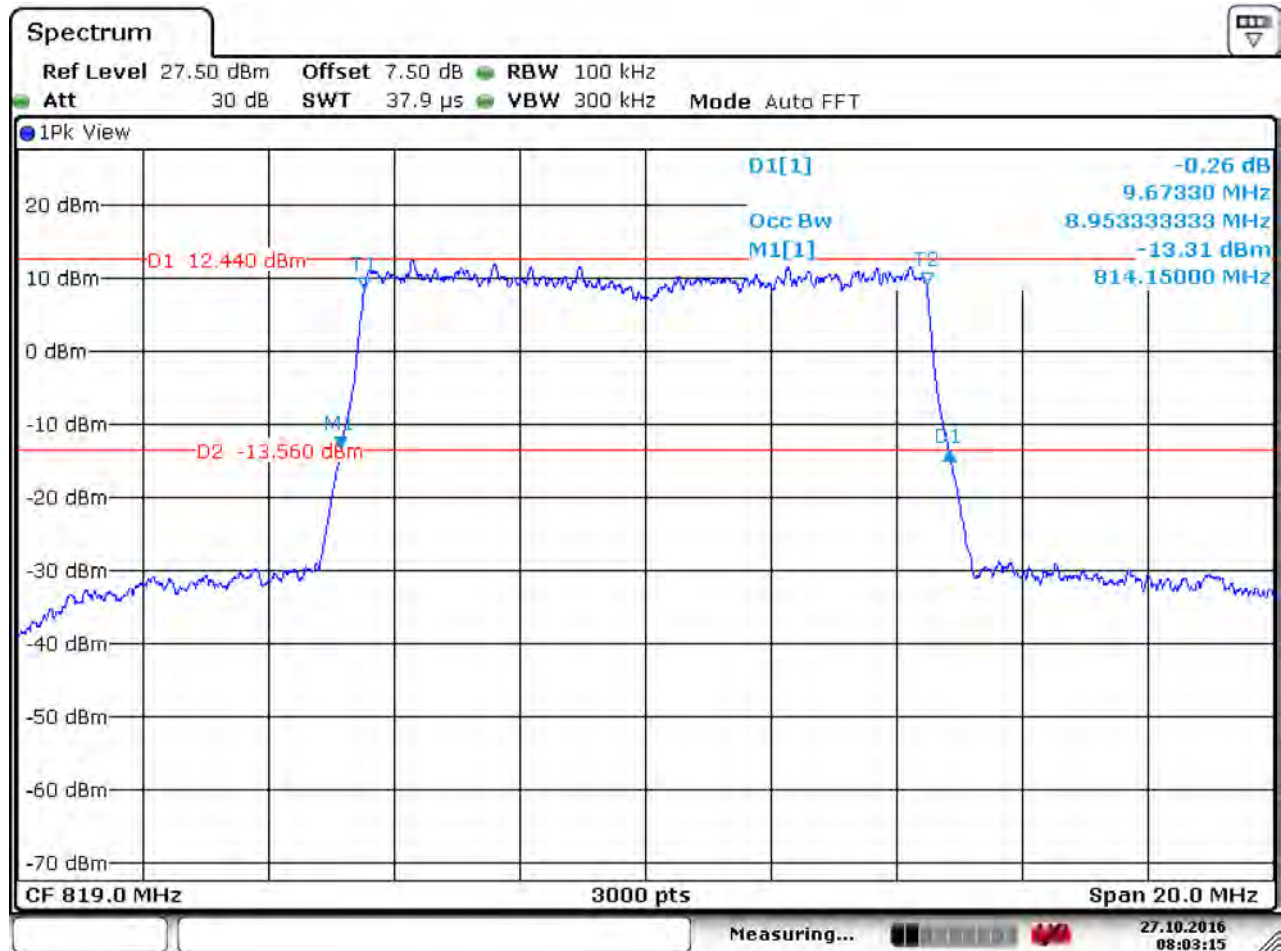
4.1.1.11.1 Test Channel = MCH



Date: 1.NOV.2016 04:16:31

4.1.1.12 Test Mode = LTE/TM3 10MHz

4.1.1.12.1 Test Channel = MCH



Date: 27.OCT.2016 08:03:15

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5 Band Edges Compliance

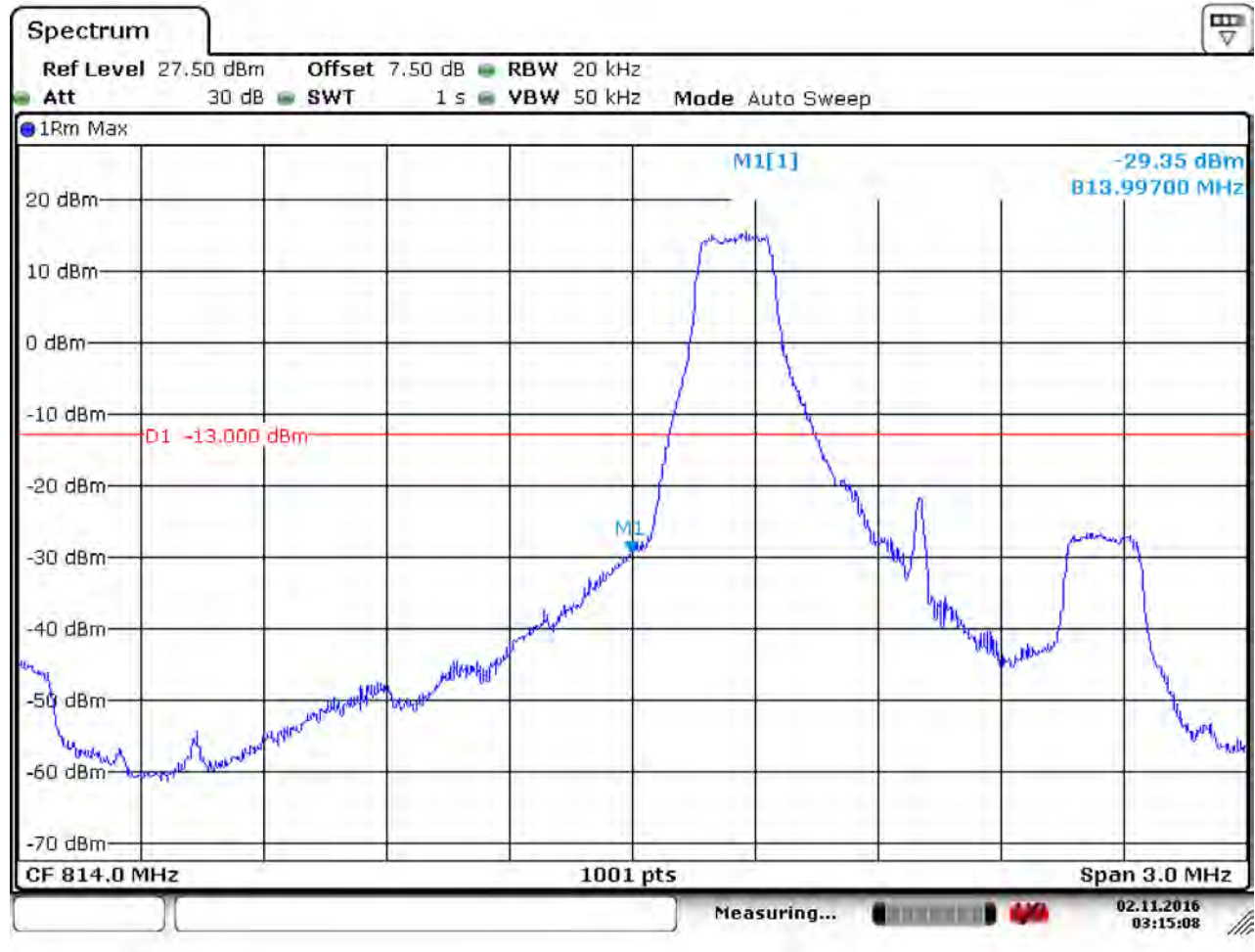
5.1 For LTE

5.1.1 Test Band = LTE band26(814-824)

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

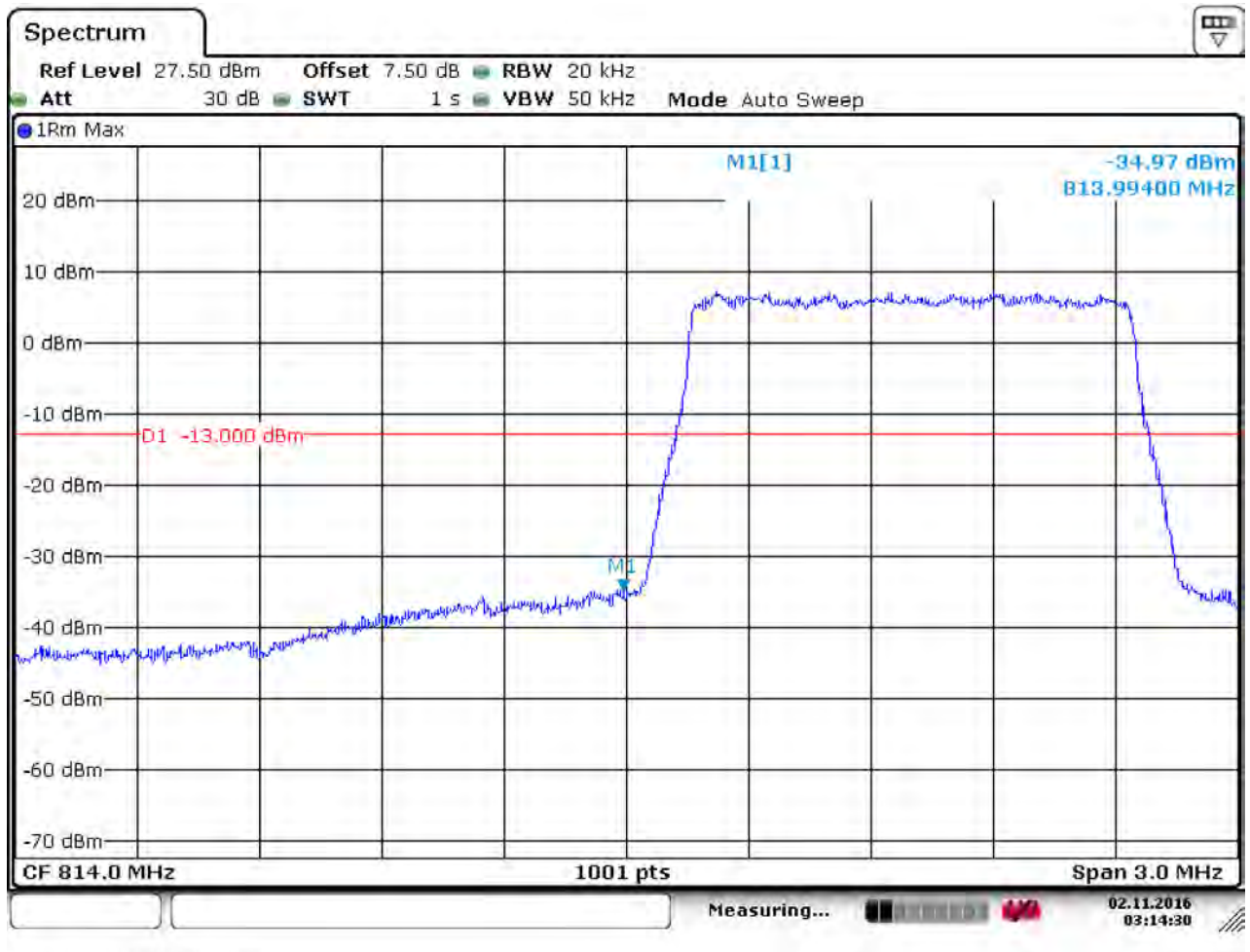
5.1.1.1.1.1 Test RB=1RB



Date: 2.NOV.2016 03:15:09



5.1.1.1.2 Test RB=6RB

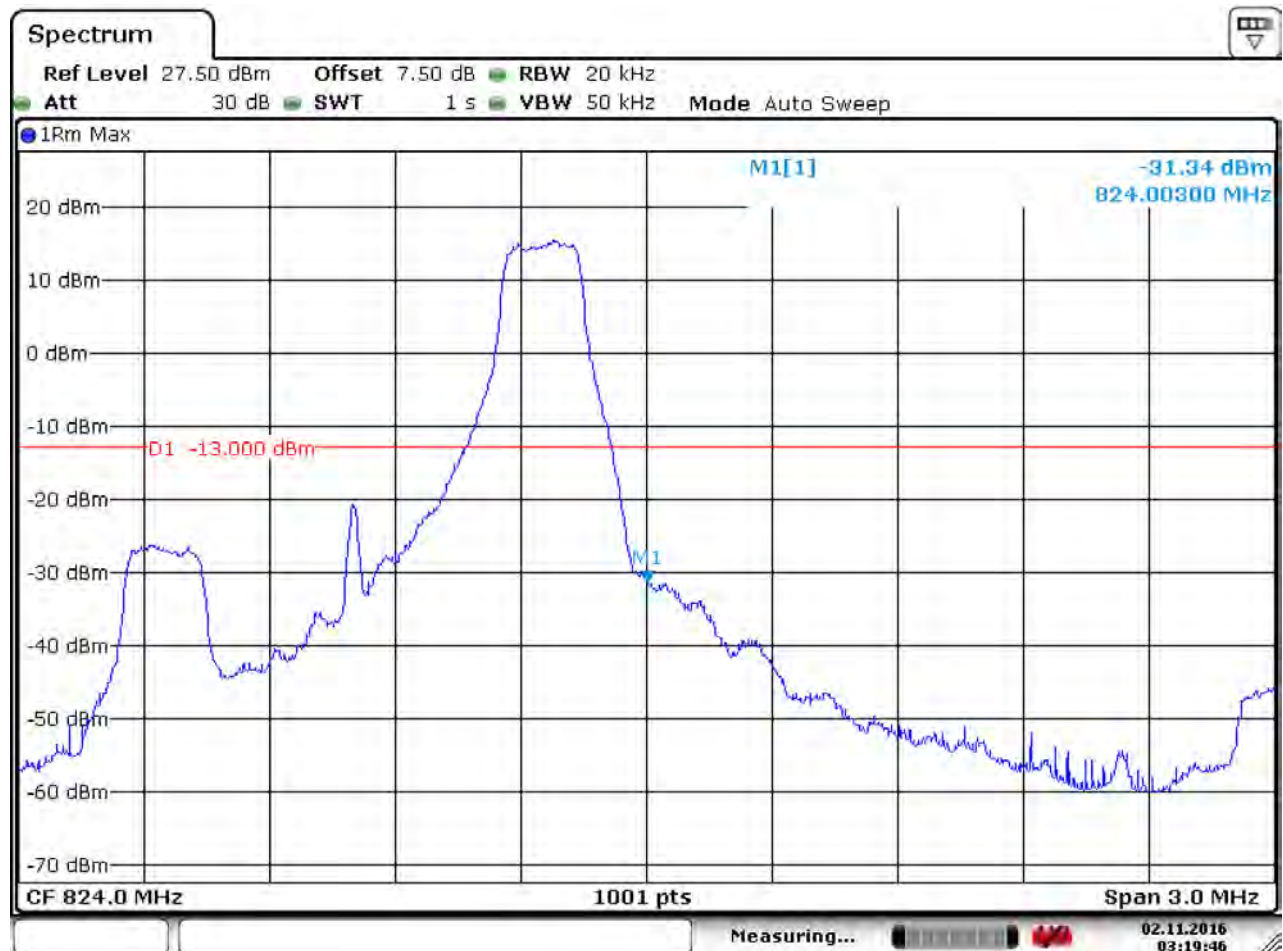


Date: 2.NOV.2016 03:14:30



5.1.1.1.2 Test Channel = HCH

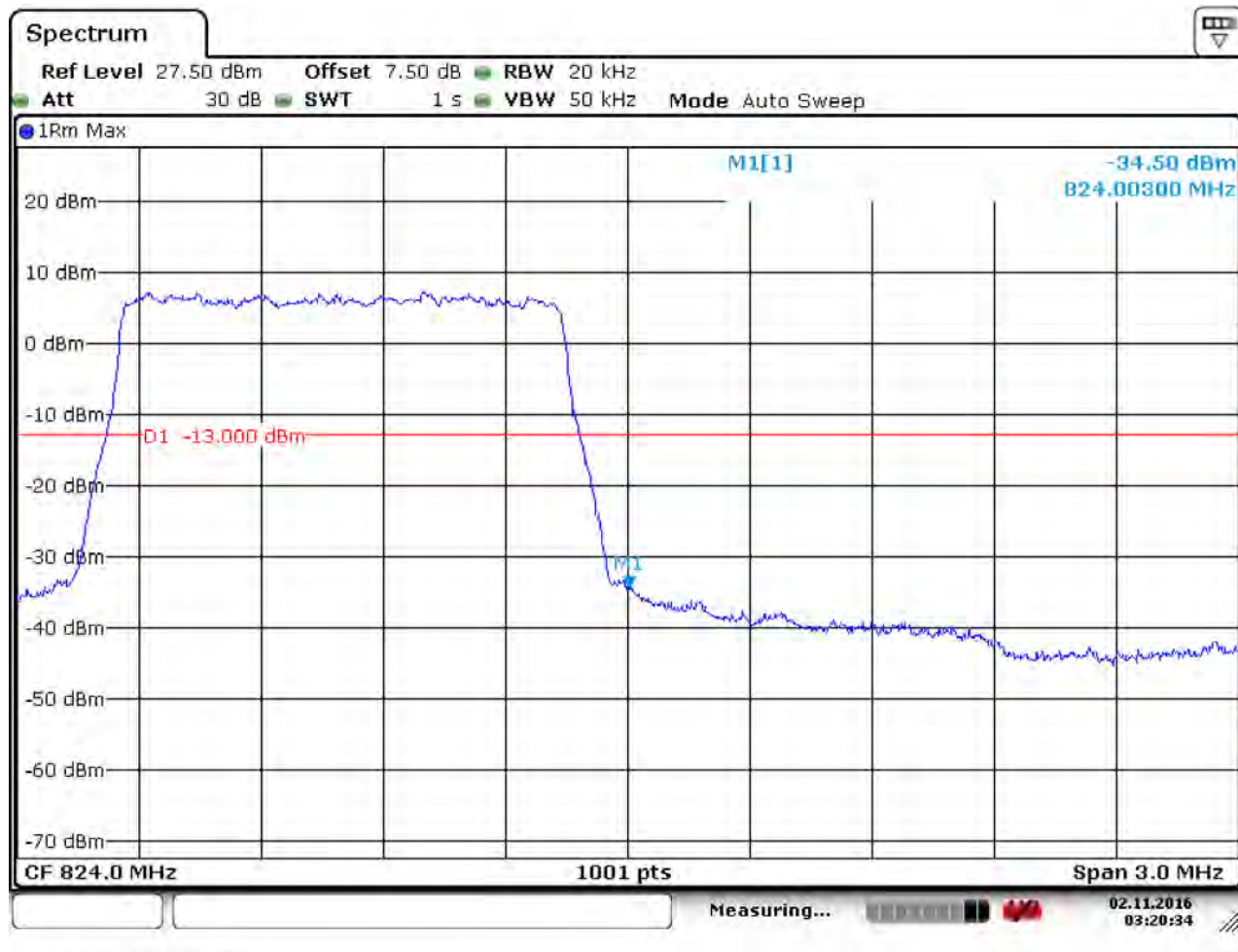
5.1.1.1.2.1 Test RB=1RB



Date: 2.NOV.2016 03:19:47



5.1.1.1.2.2 Test RB=6RB



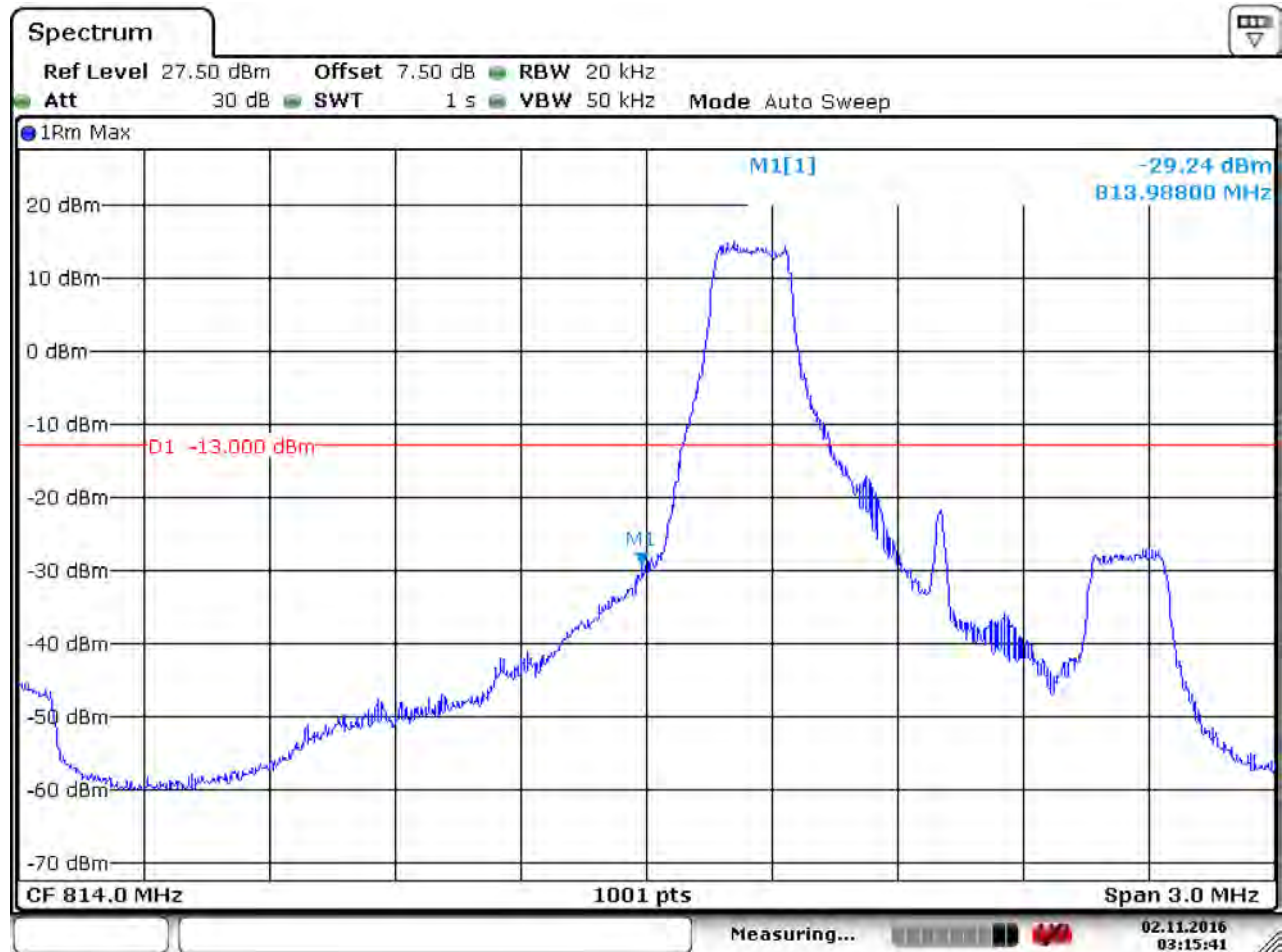
Date: 2.NOV.2016 03:20:34



5.1.1.2 Test Mode = LTE/TM2 1.4MHz

5.1.1.2.1 Test Channel = LCH

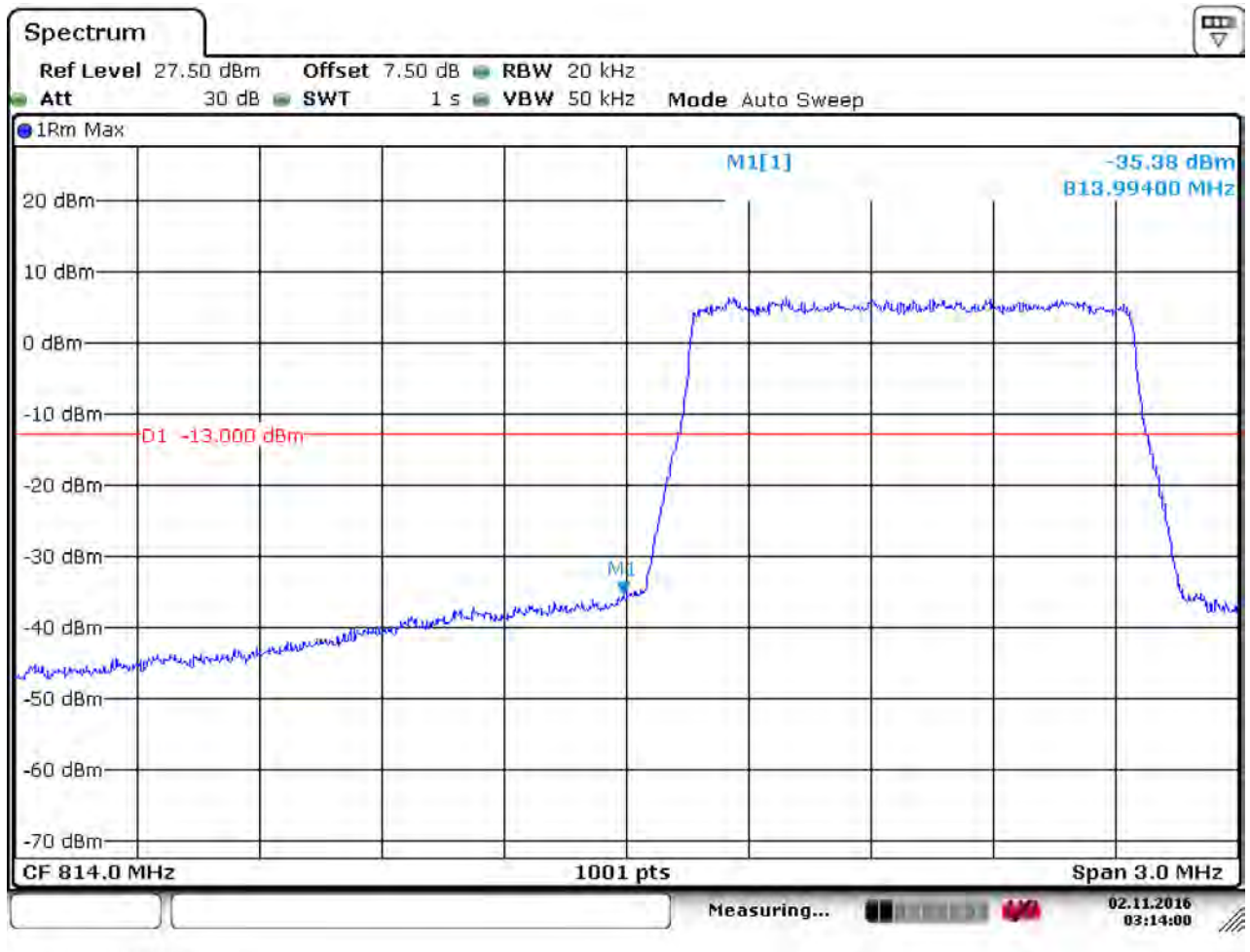
5.1.1.2.1.1 Test RB=1RB



Date: 2.NOV.2016 03:15:41



5.1.1.2.1.2 Test RB=6RB

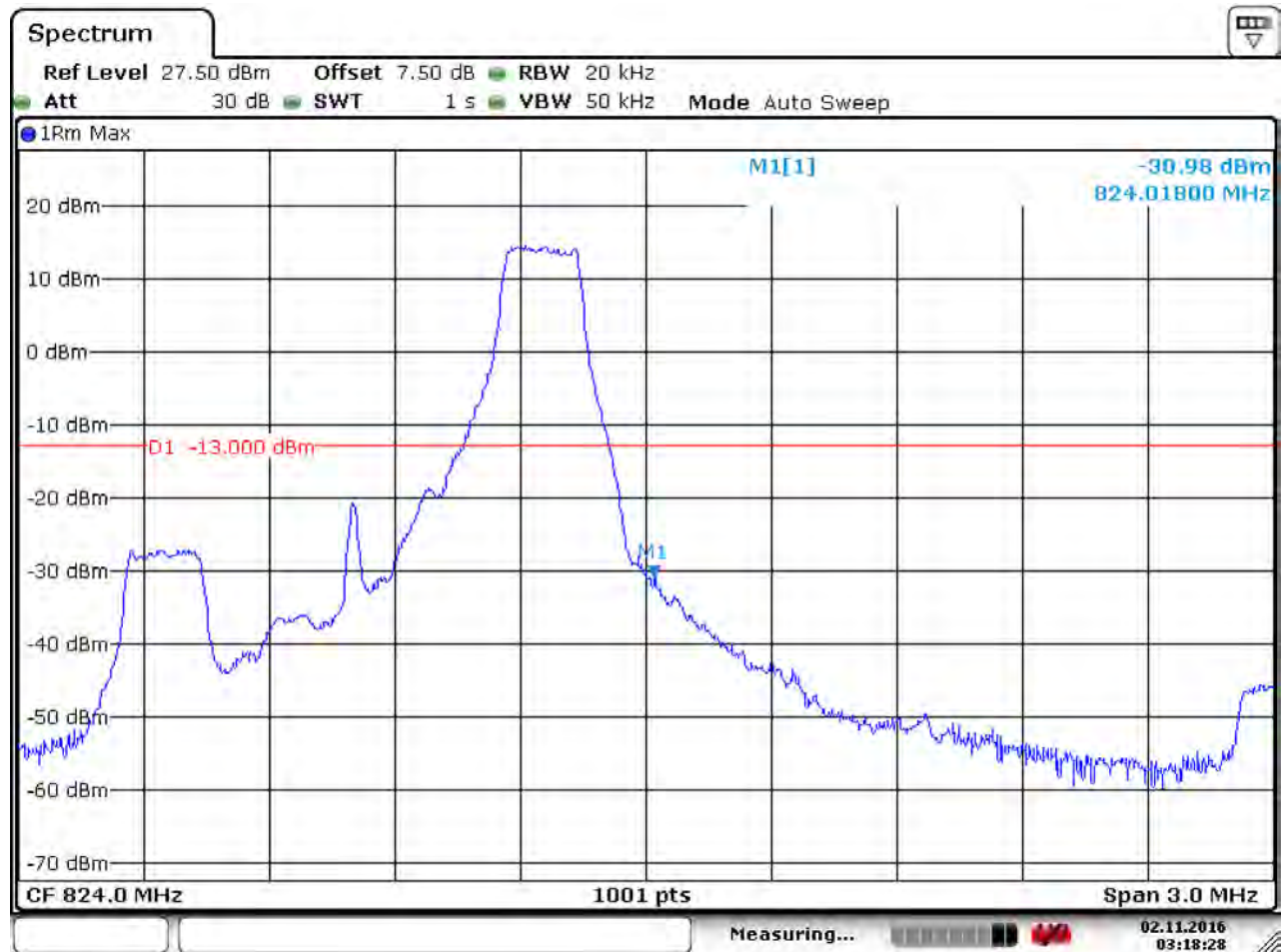


Date: 2.NOV.2016 03:14:00



5.1.1.2.2 Test Channel = HCH

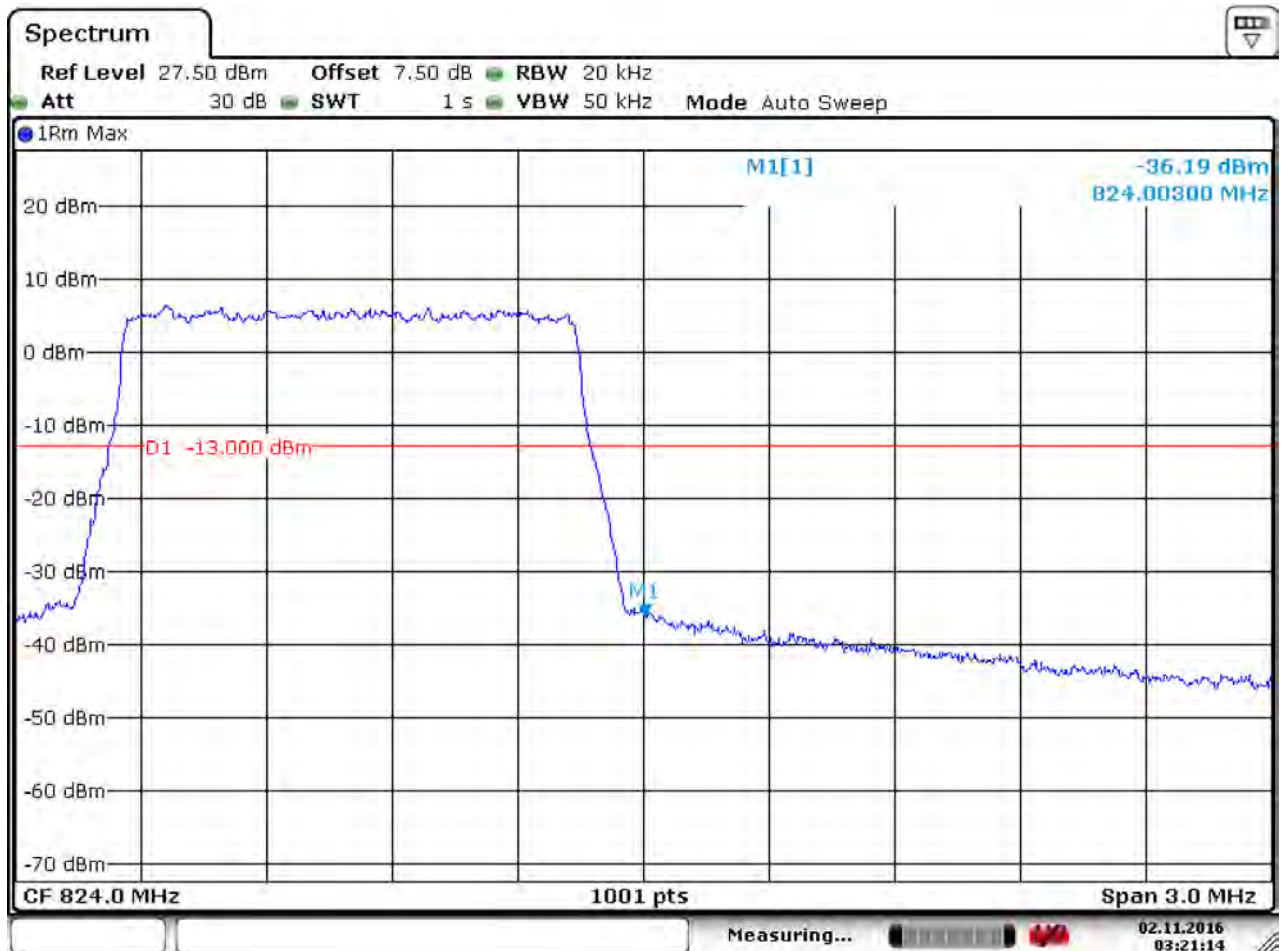
5.1.1.2.2.1 Test RB=1RB



Date: 2.NOV.2016 03:18:29



5.1.1.2.2.2 Test RB=6RB



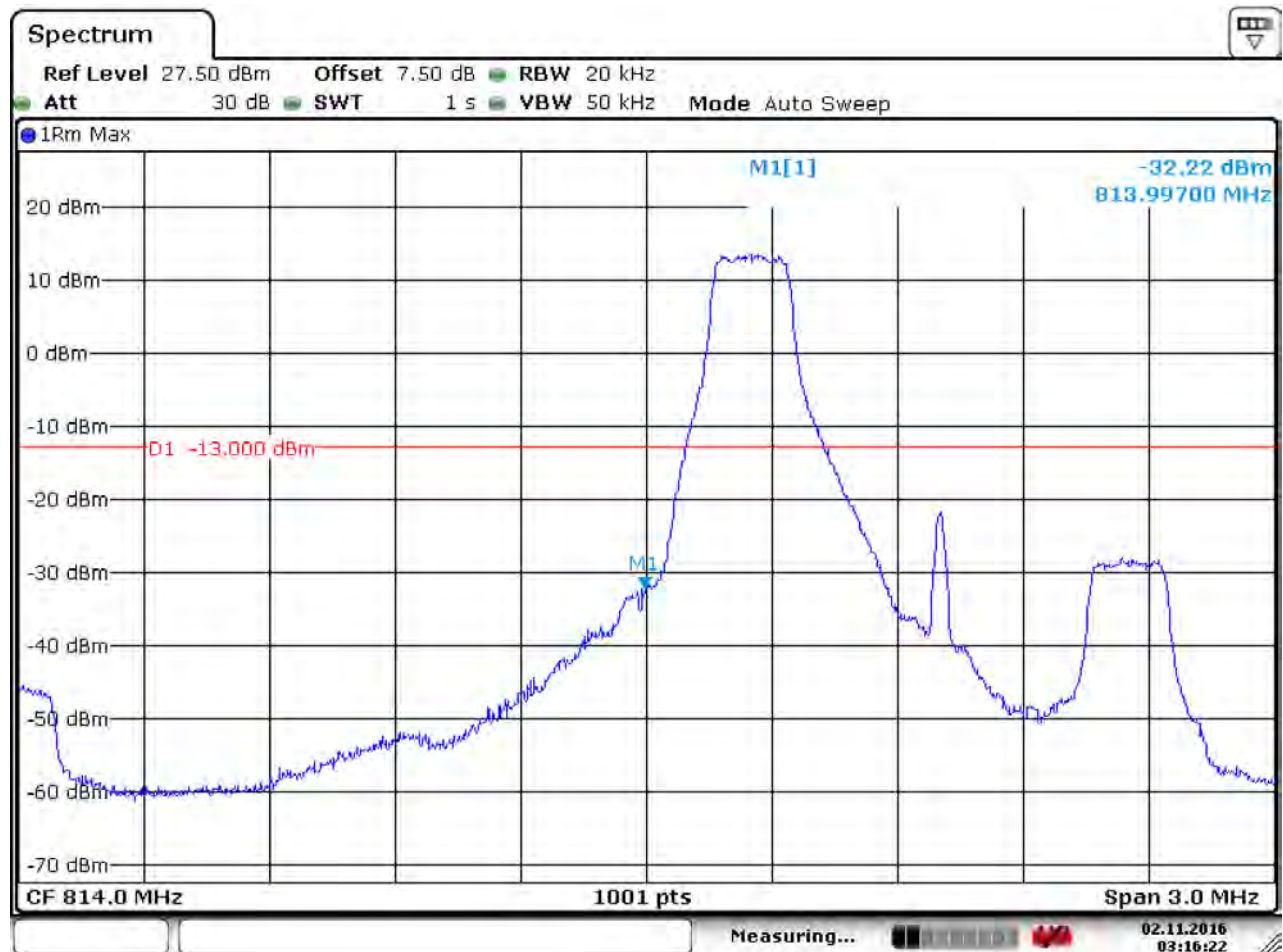
Date: 2.NOV.2016 03:21:15



5.1.1.3 Test Mode = LTE/TM3 1.4MHz

5.1.1.3.1 Test Channel = LCH

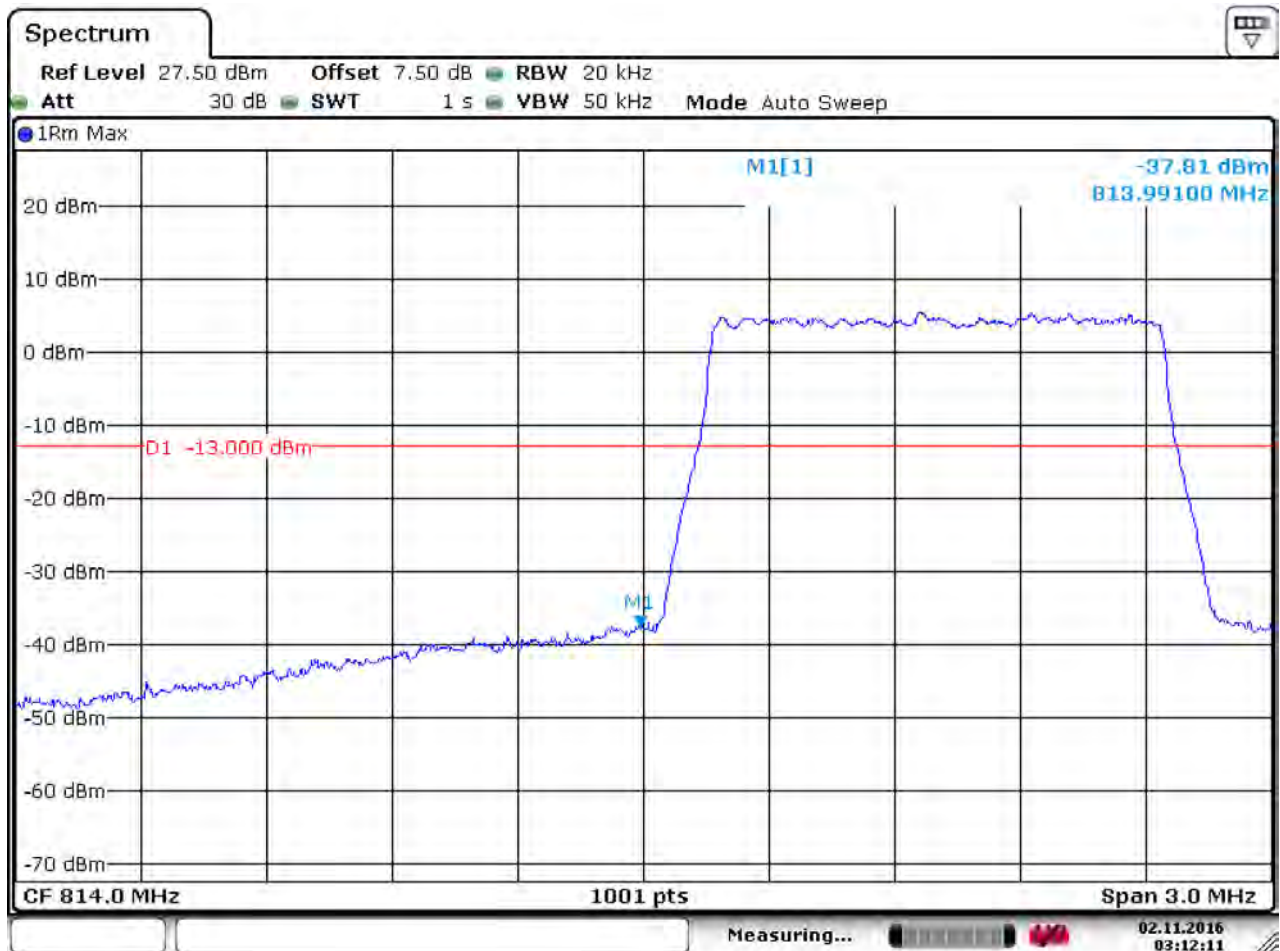
5.1.1.3.1.1 Test RB=1RB



Date: 2.NOV.2016 03:16:22



5.1.1.3.1.2 Test RB=6RB

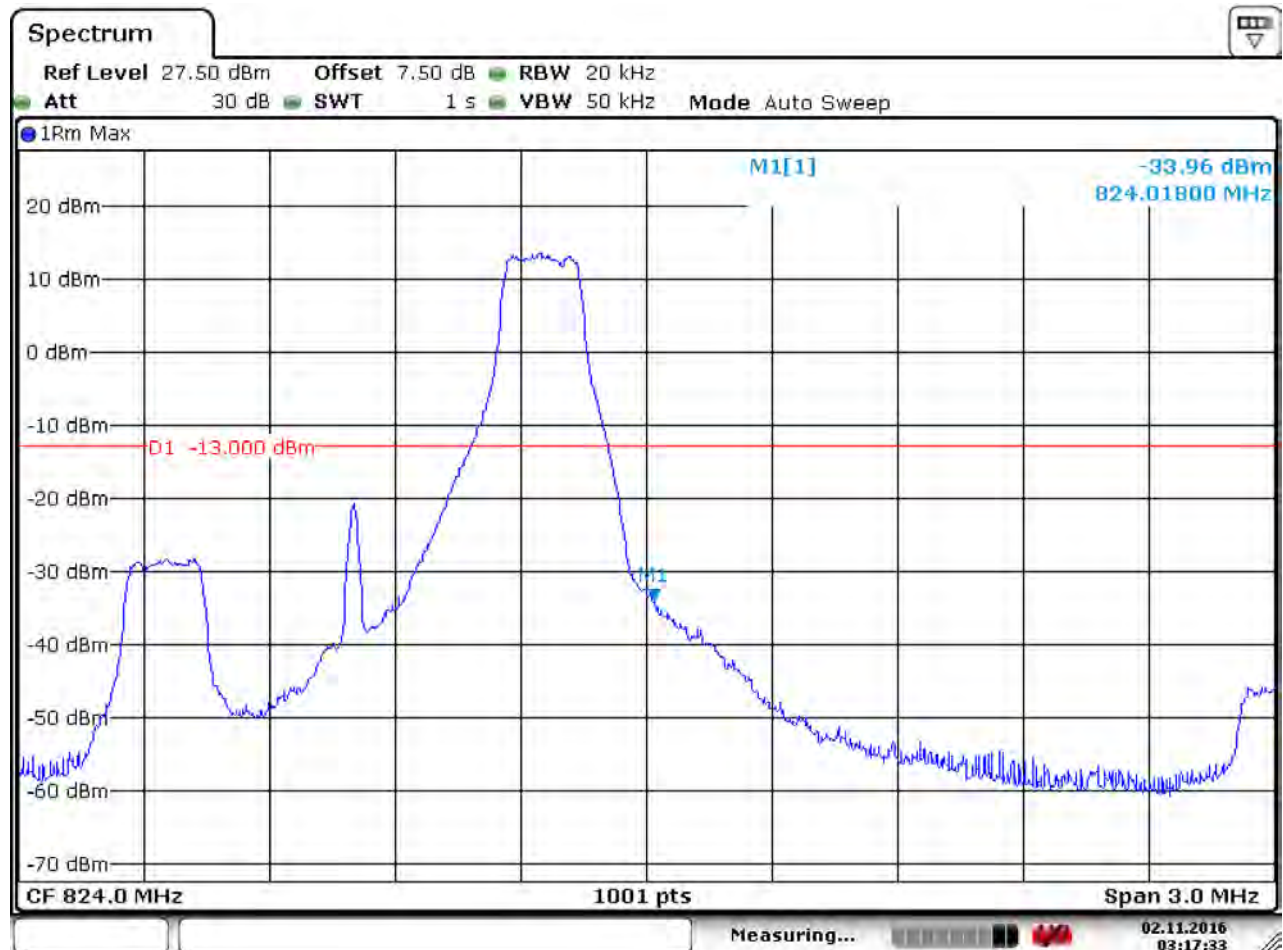


Date: 2.NOV.2016 03:12:11



5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



Date: 2.NOV.2016 03:17:33



5.1.1.3.2.2 Test RB=6RB



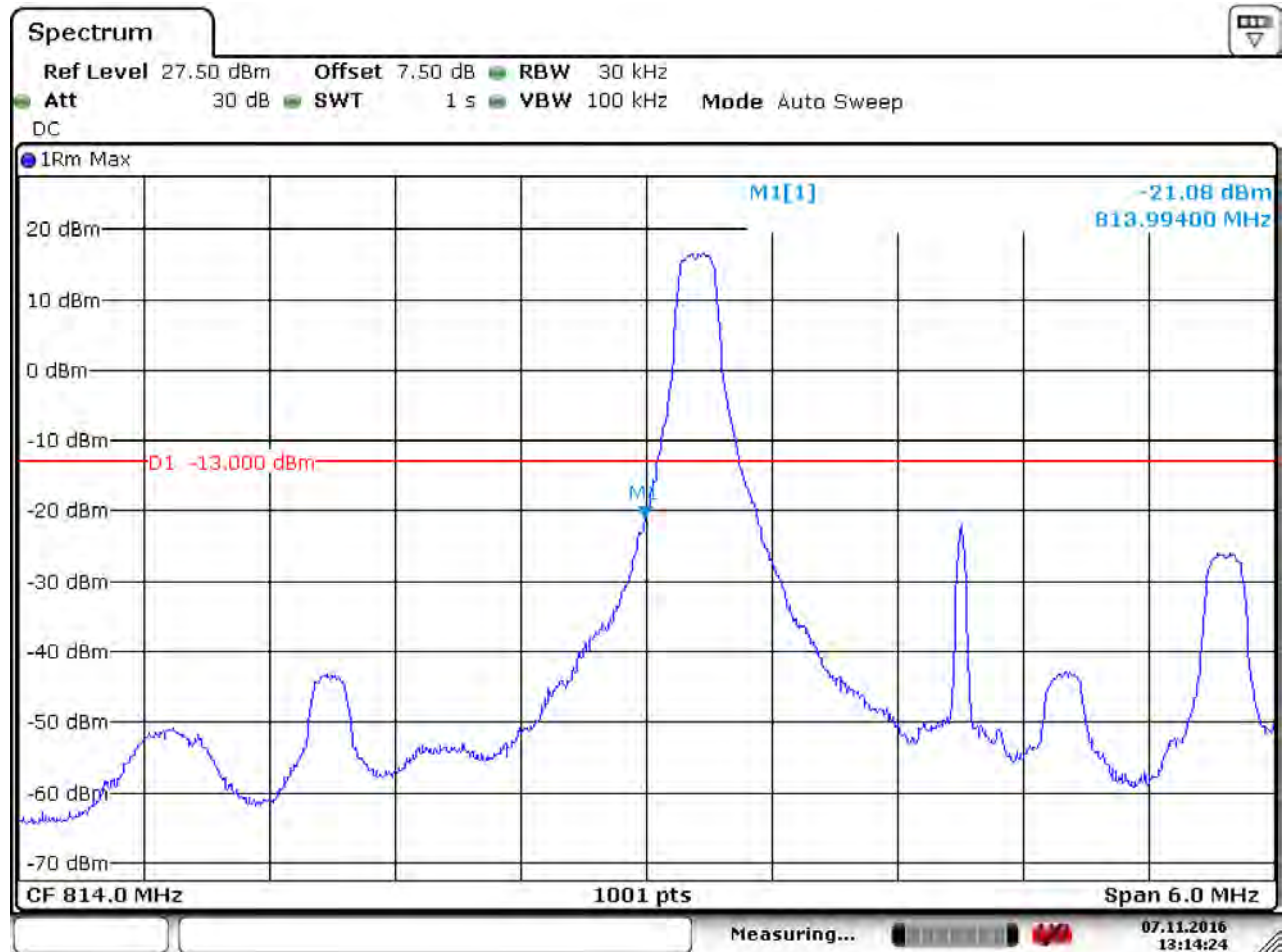
Date: 2.NOV.2016 03:21:53



5.1.1.4 Test Mode = LTE/TM1 3MHz

5.1.1.4.1 Test Channel = LCH

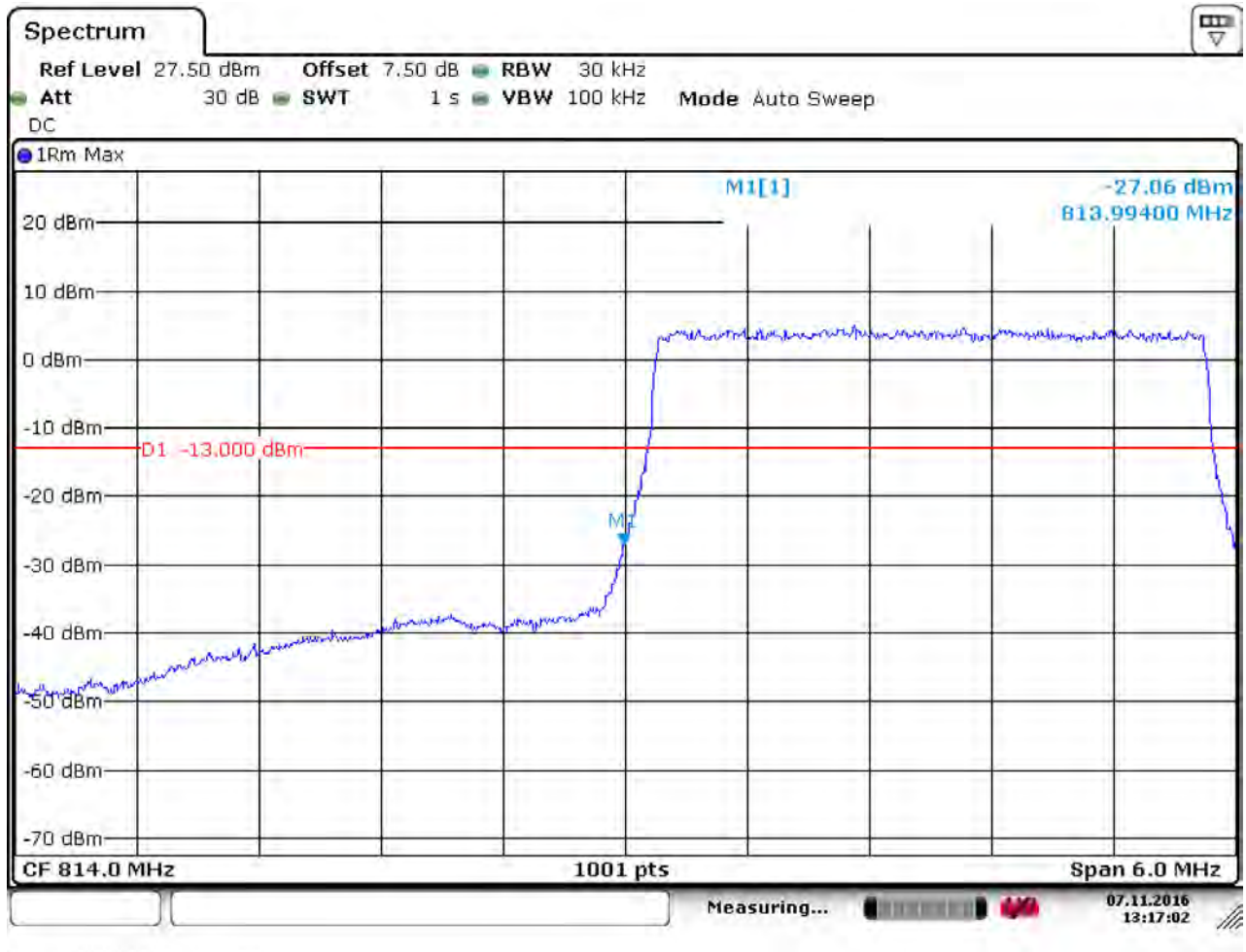
5.1.1.4.1.1 Test RB=1RB



Date: 7.NOV.2016 13:14:24



5.1.1.4.1.2 Test RB=15RB

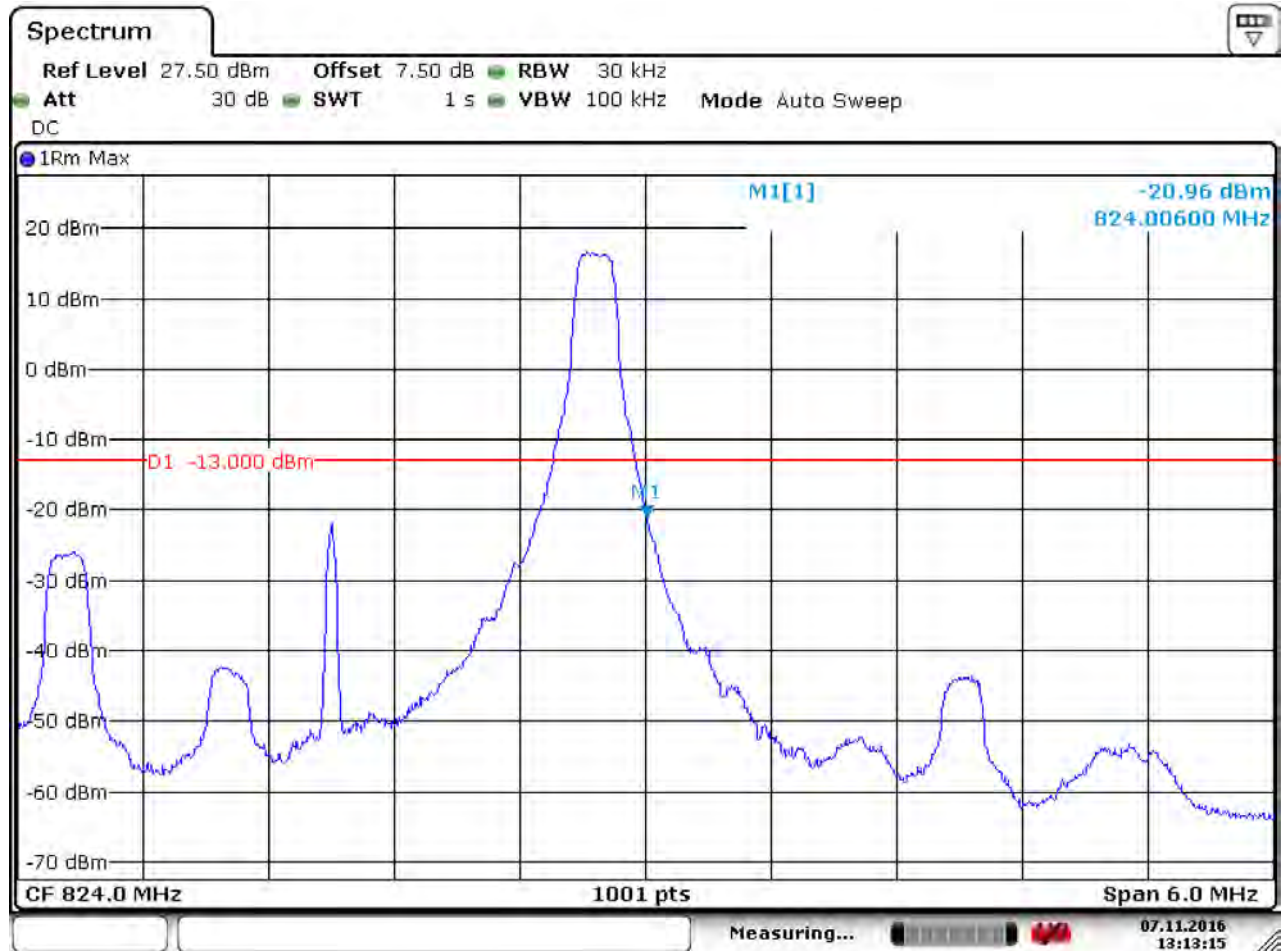


Date: 7.NOV.2016 13:17:02



5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 7. NOV. 2016 13:13:15



5.1.1.4.2.2 Test RB=15RB



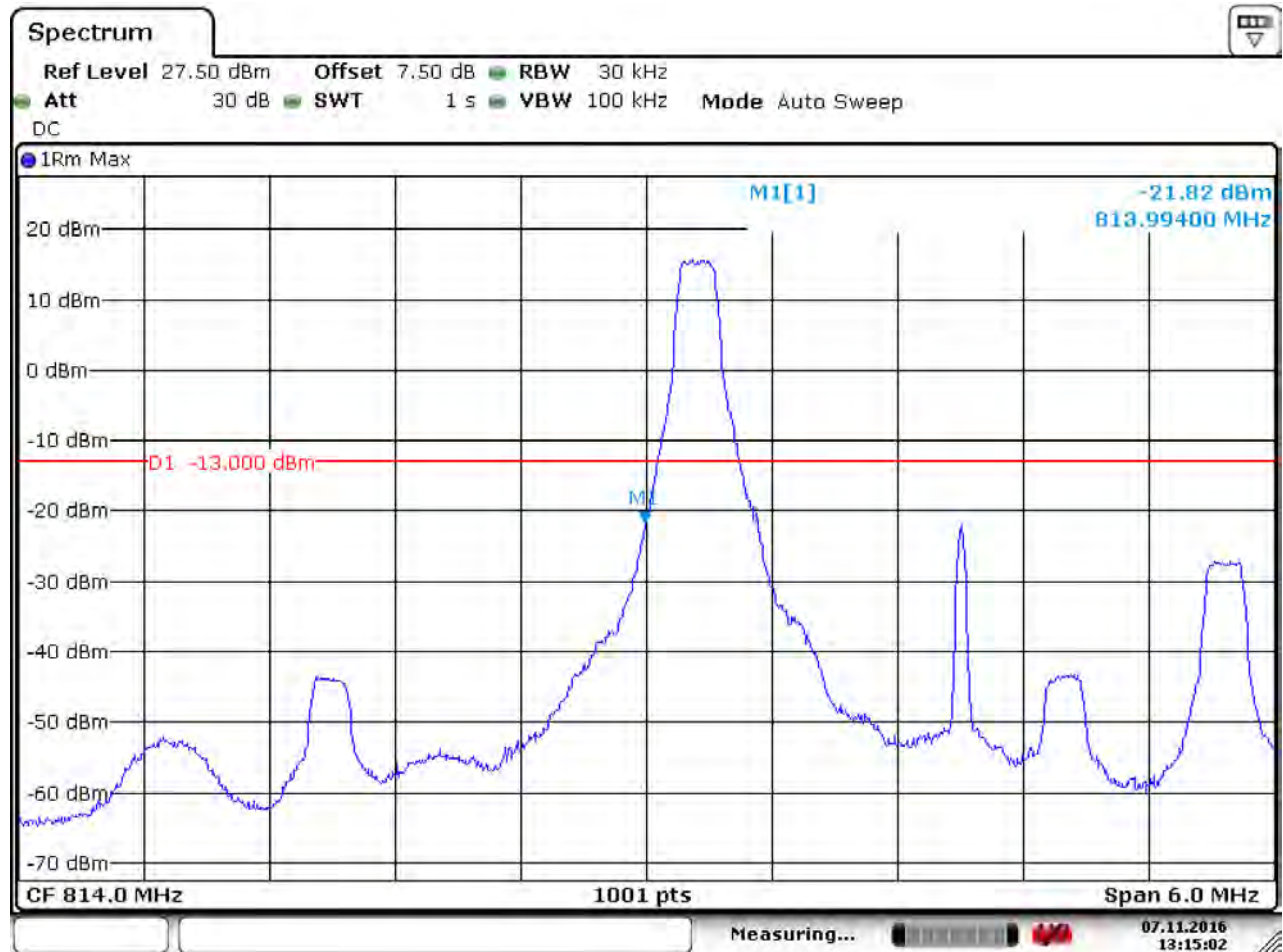
Date: 7.NOV.2016 13:10:30



5.1.1.5 Test Mode = LTE/TM2 3MHz

5.1.1.5.1 Test Channel = LCH

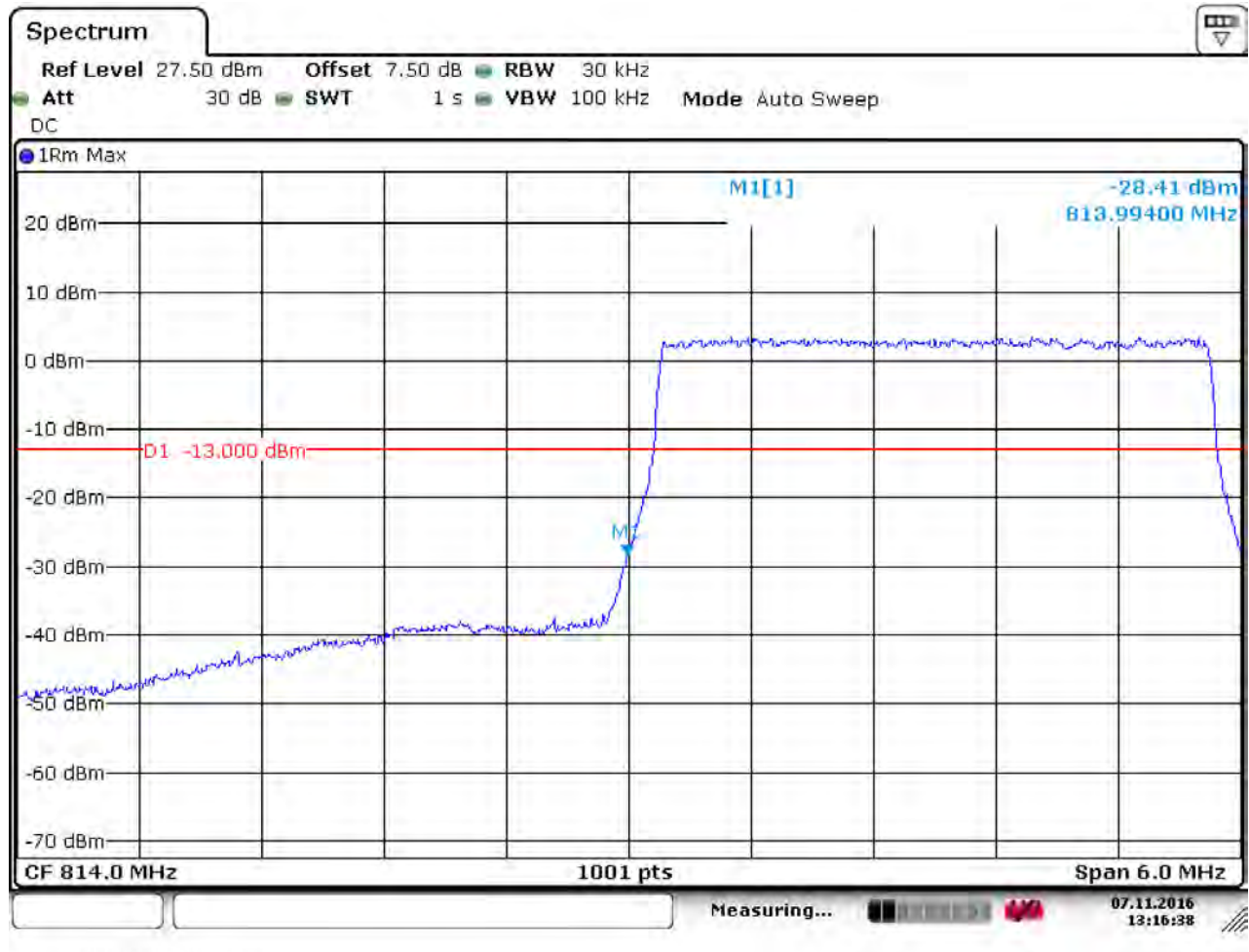
5.1.1.5.1.1 Test RB=1RB



Date: 7.NOV.2016 13:15:02



5.1.1.5.1.2 Test RB=15RB

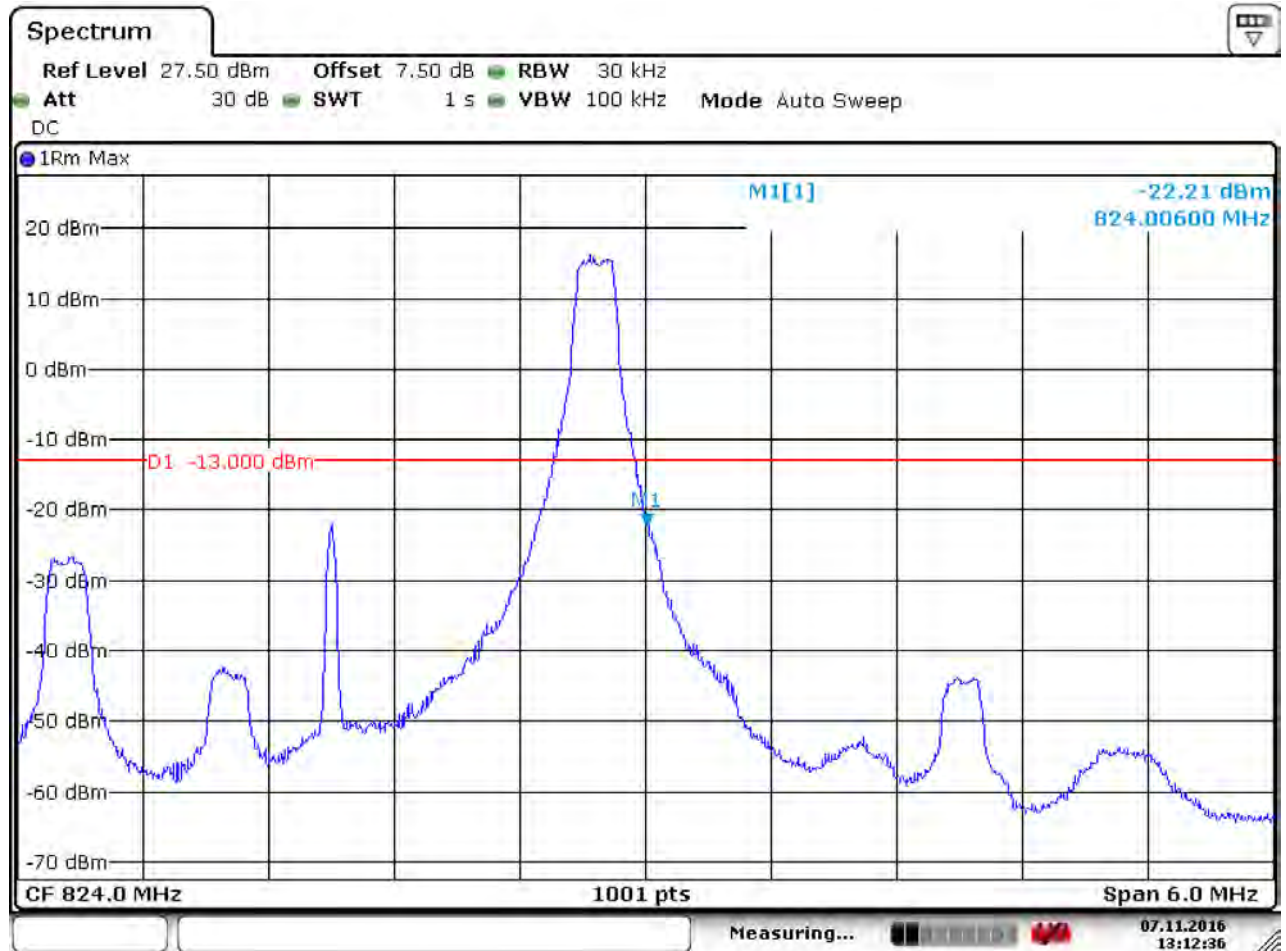


Date: 7.NOV.2016 13:16:38



5.1.1.5.2 Test Channel = HCH

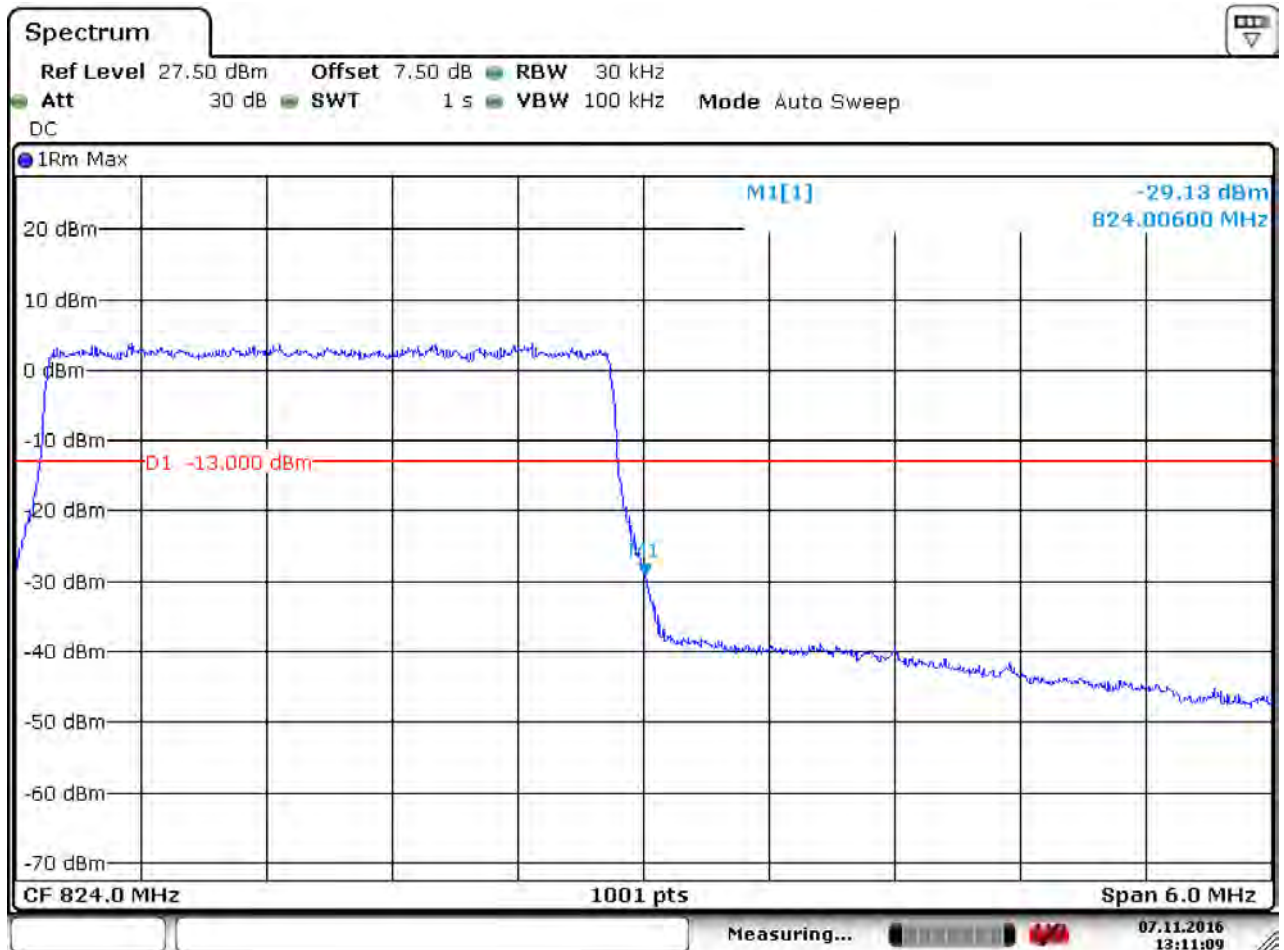
5.1.1.5.2.1 Test RB=1RB



Date: 7. NOV. 2016 13:12:37



5.1.1.5.3 Test RB=15RB



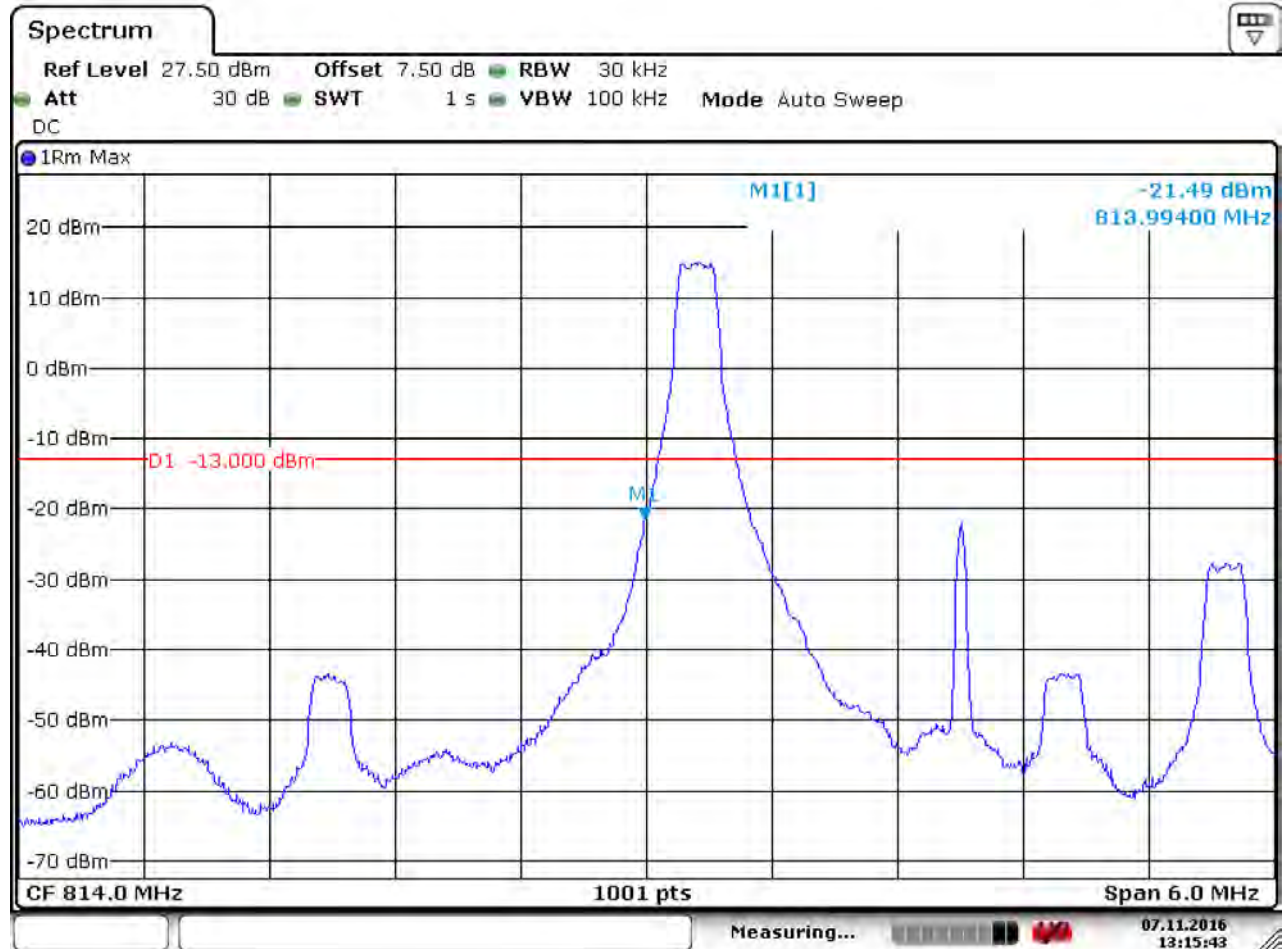
Date: 7.NOV.2016 13:11:09



5.1.1.6 Test Mode = LTE/TM3 3MHz

5.1.1.6.1 Test Channel = LCH

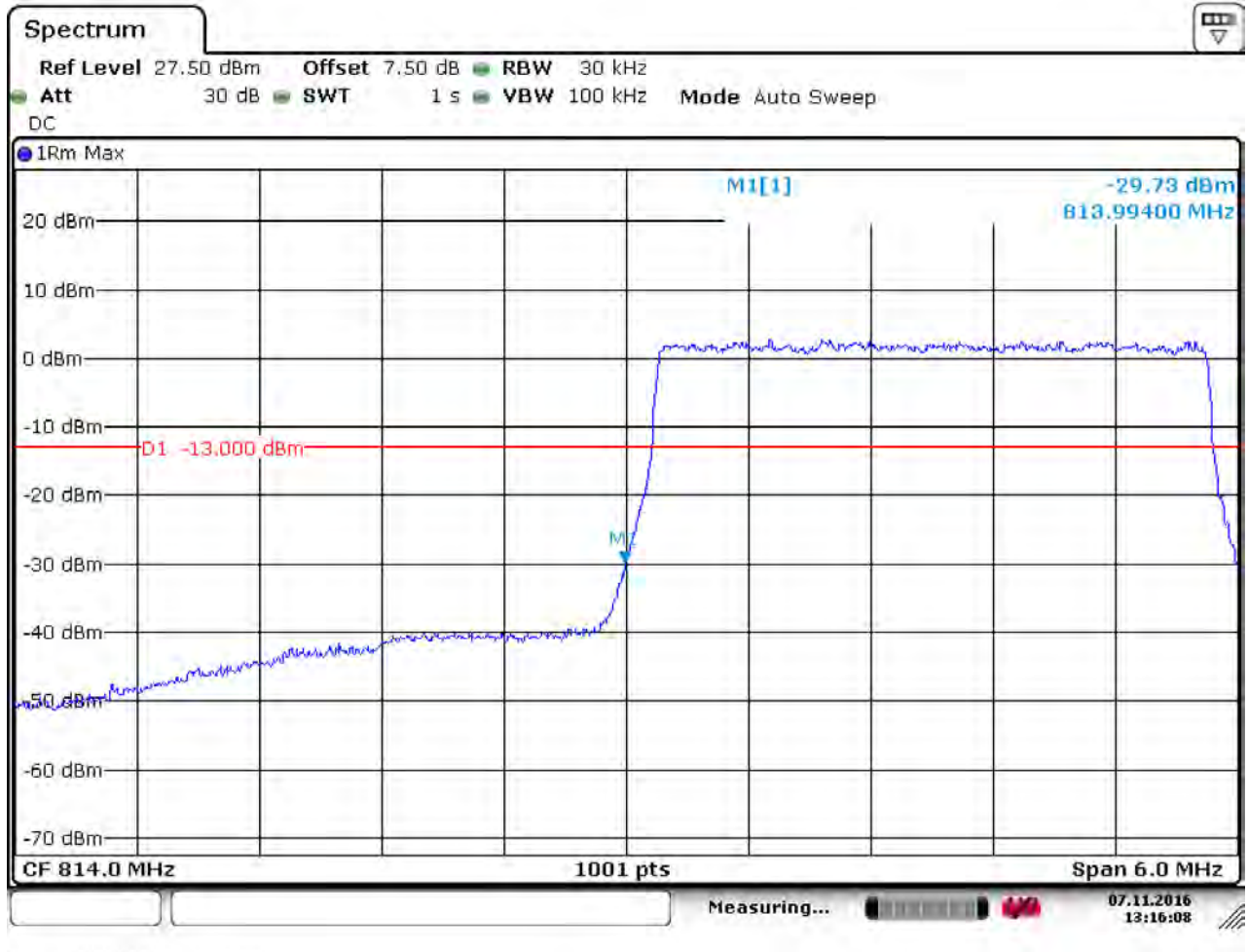
5.1.1.6.2 Test RB=1RB



Date: 7.NOV.2016 13:15:43



5.1.1.6.2.1 Test RB=15RB

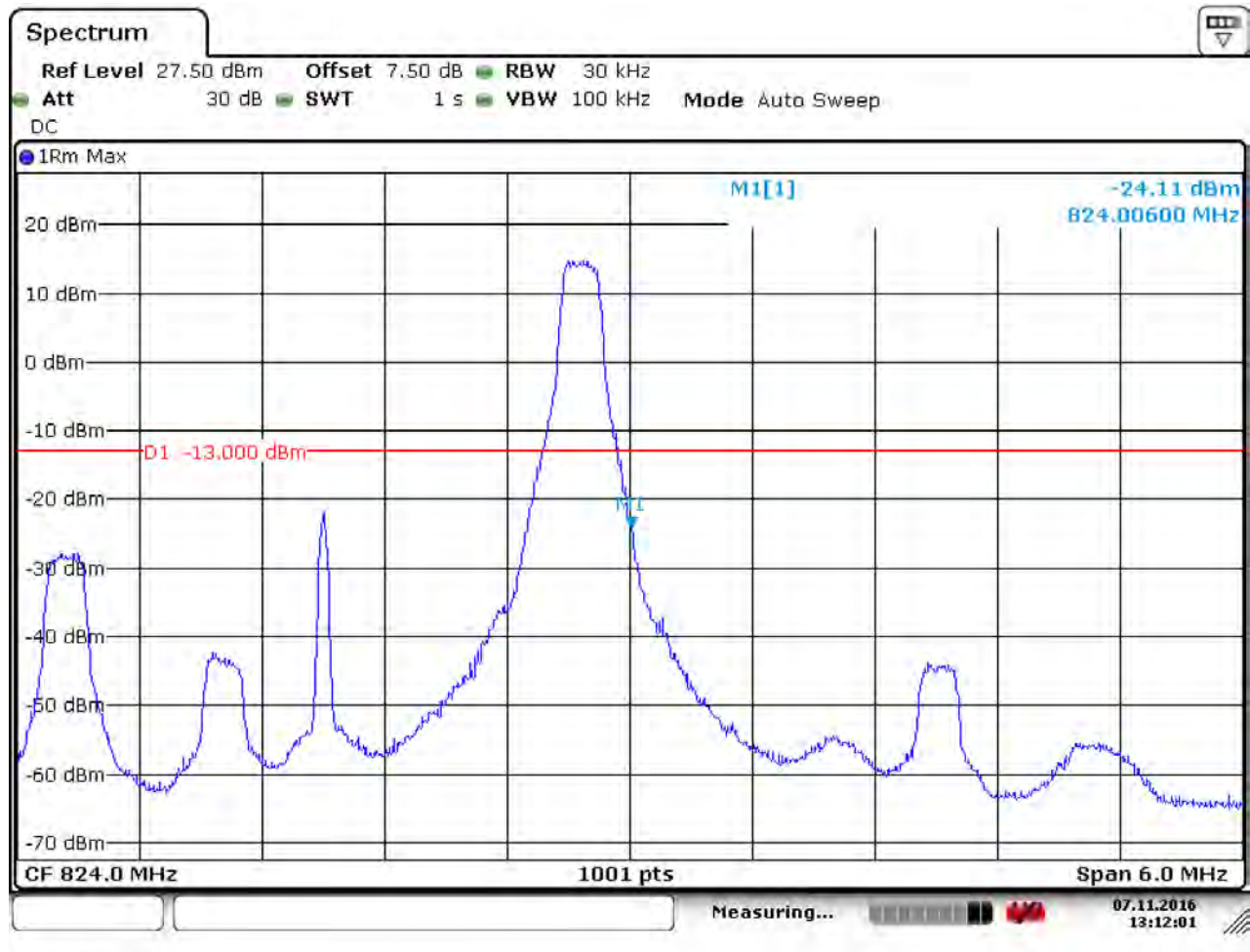


Date: 7.NOV.2016 13:16:09



5.1.1.6.3 Test Channel = HCH

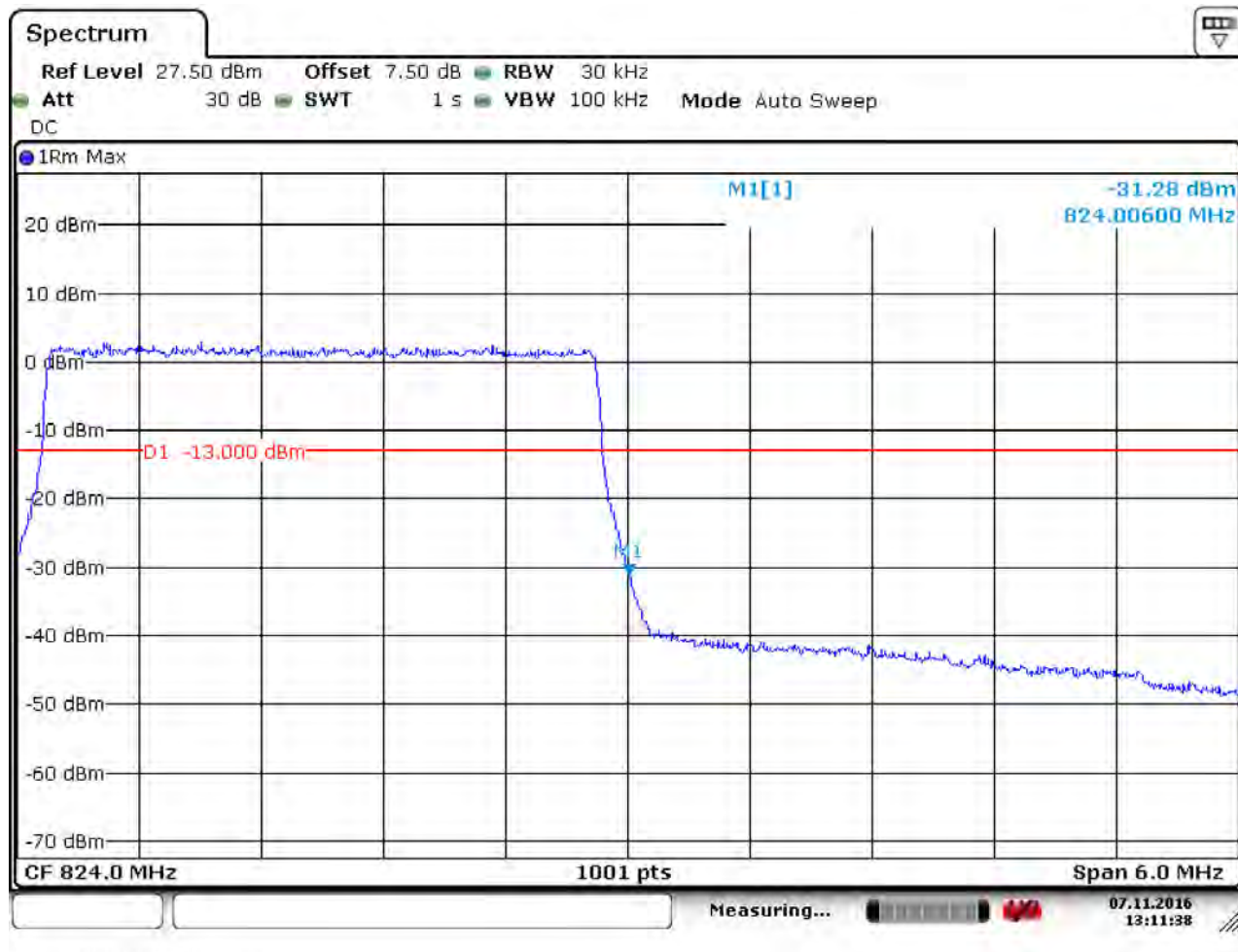
5.1.1.6.3.1 Test RB=1RB



Date: 7. NOV. 2016 13:12:01



5.1.1.6.3.2 Test RB=15RB



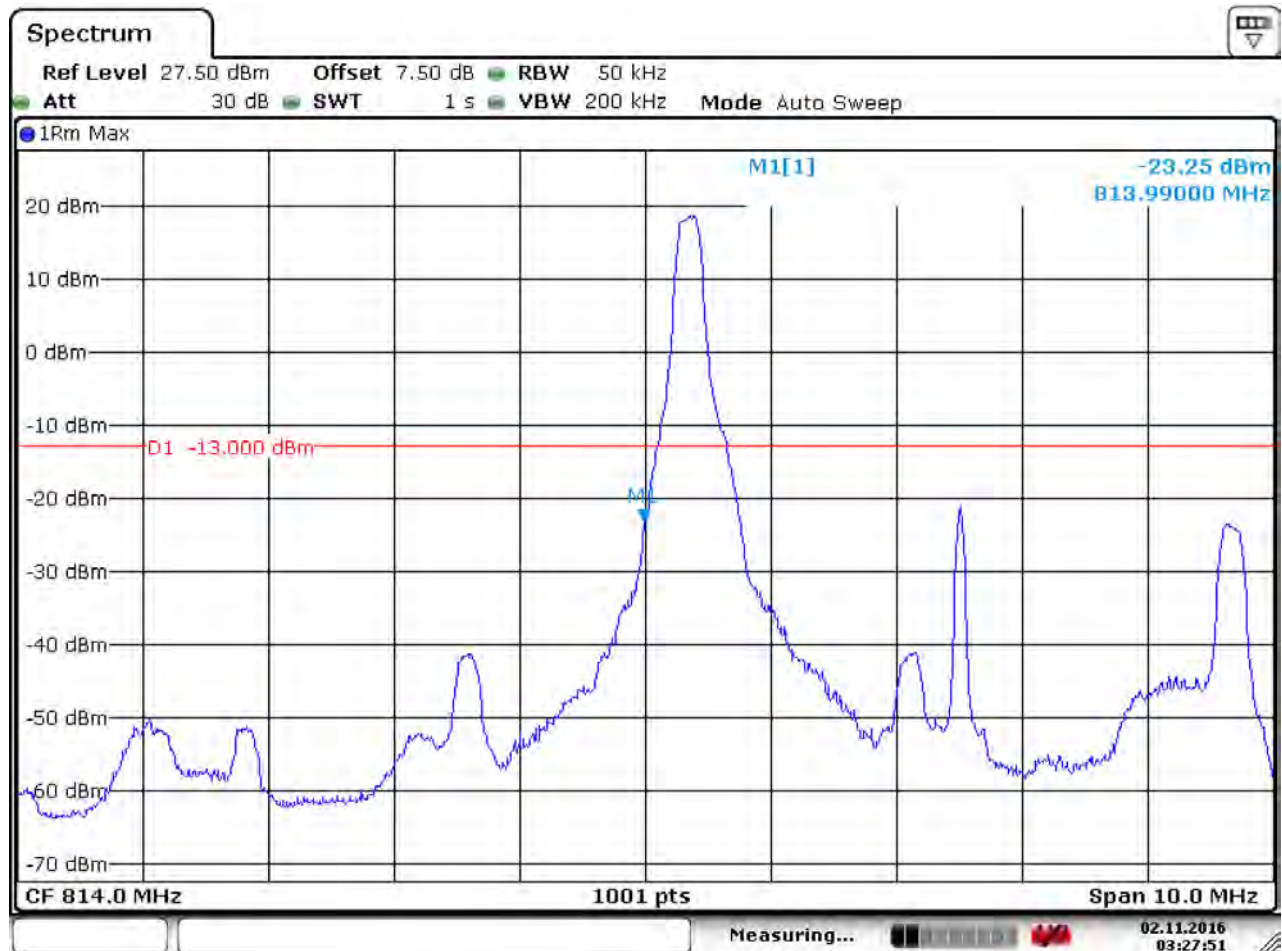
Date: 7.NOV.2016 13:11:38



5.1.1.7 Test Mode = LTE/TM1 5MHz

5.1.1.7.1 Test Channel = LCH

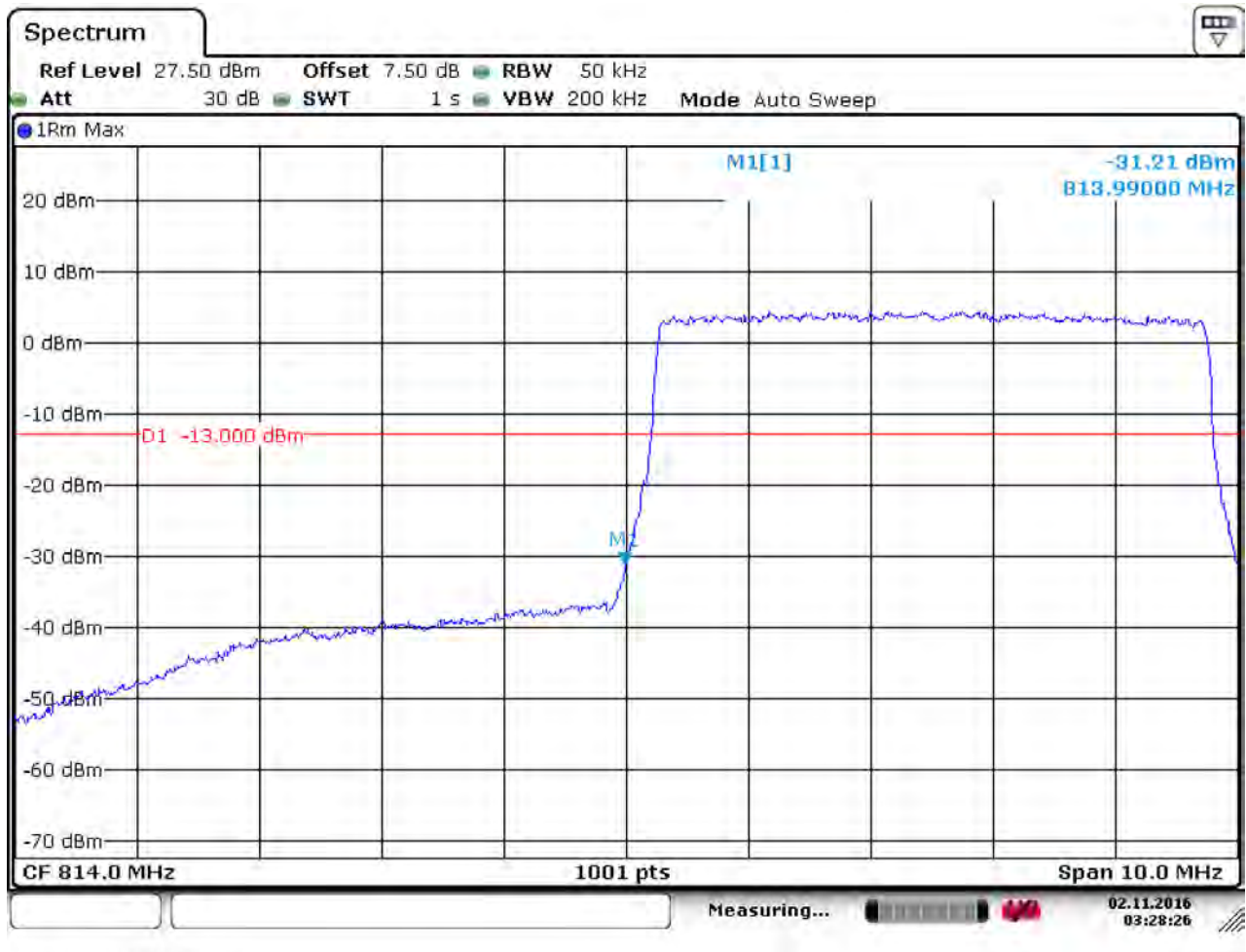
5.1.1.7.1.1 Test RB=1RB



Date: 2.NOV.2016 03:27:51



5.1.1.7.1.2 Test RB=25RB

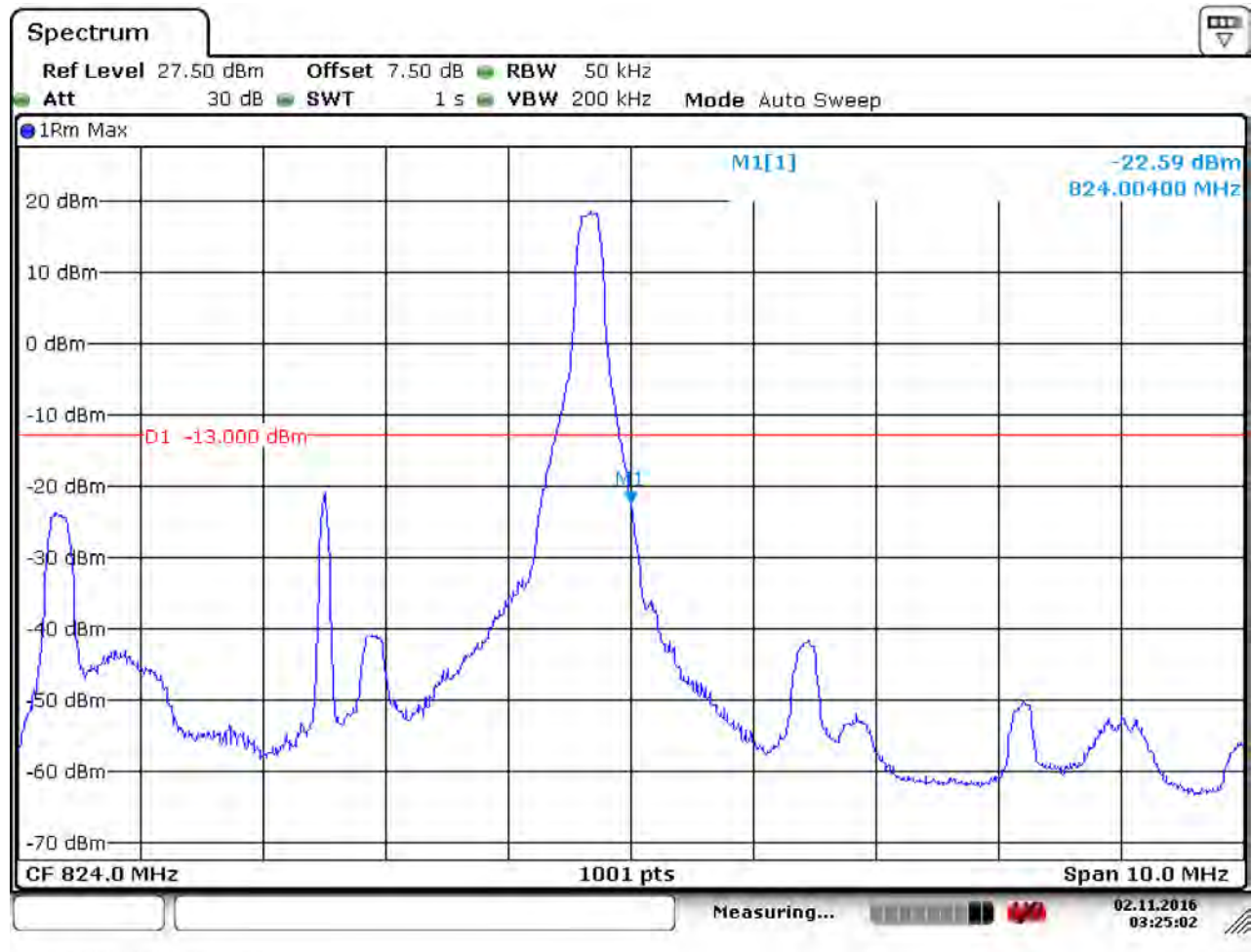


Date: 2.NOV.2016 03:28:27



5.1.1.7.2 Test Channel = HCH

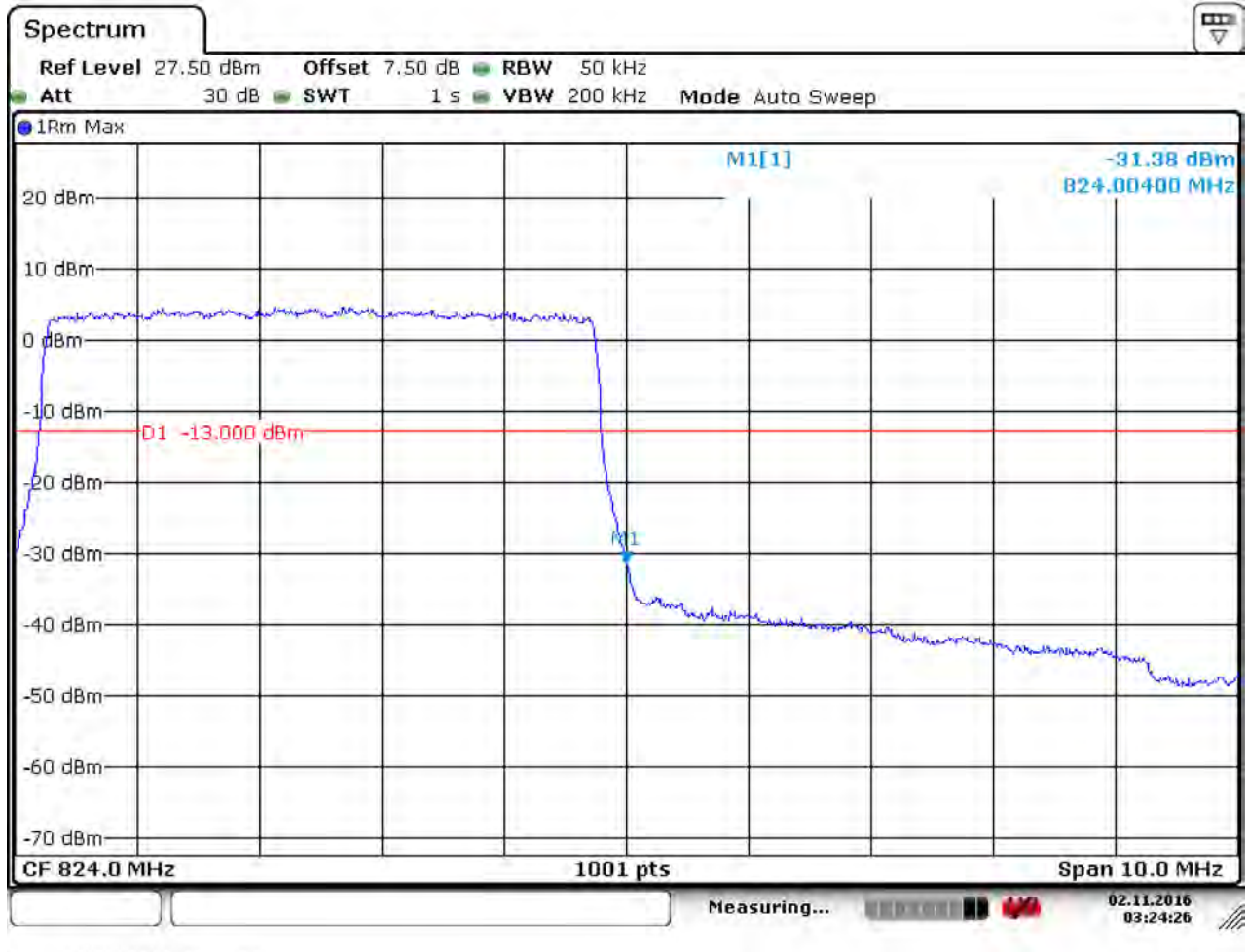
5.1.1.7.2.1 Test RB=1RB



Date: 2.NOV.2016 03:25:02



5.1.1.7.2.2 Test RB=25RB



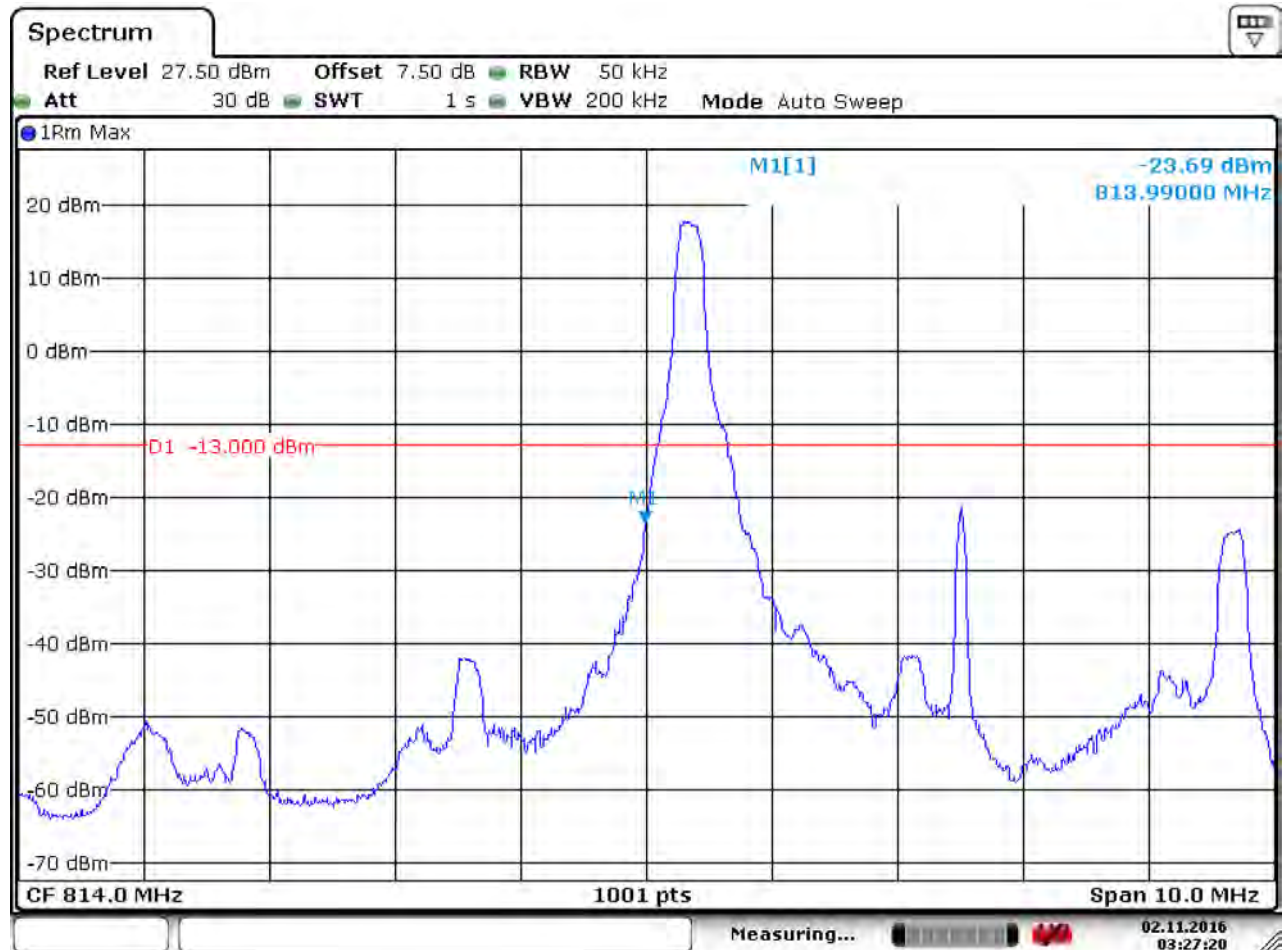
Date: 2.NOV.2016 03:24:26



5.1.1.8 Test Mode = LTE/TM2 5MHz

5.1.1.8.1 Test Channel = LCH

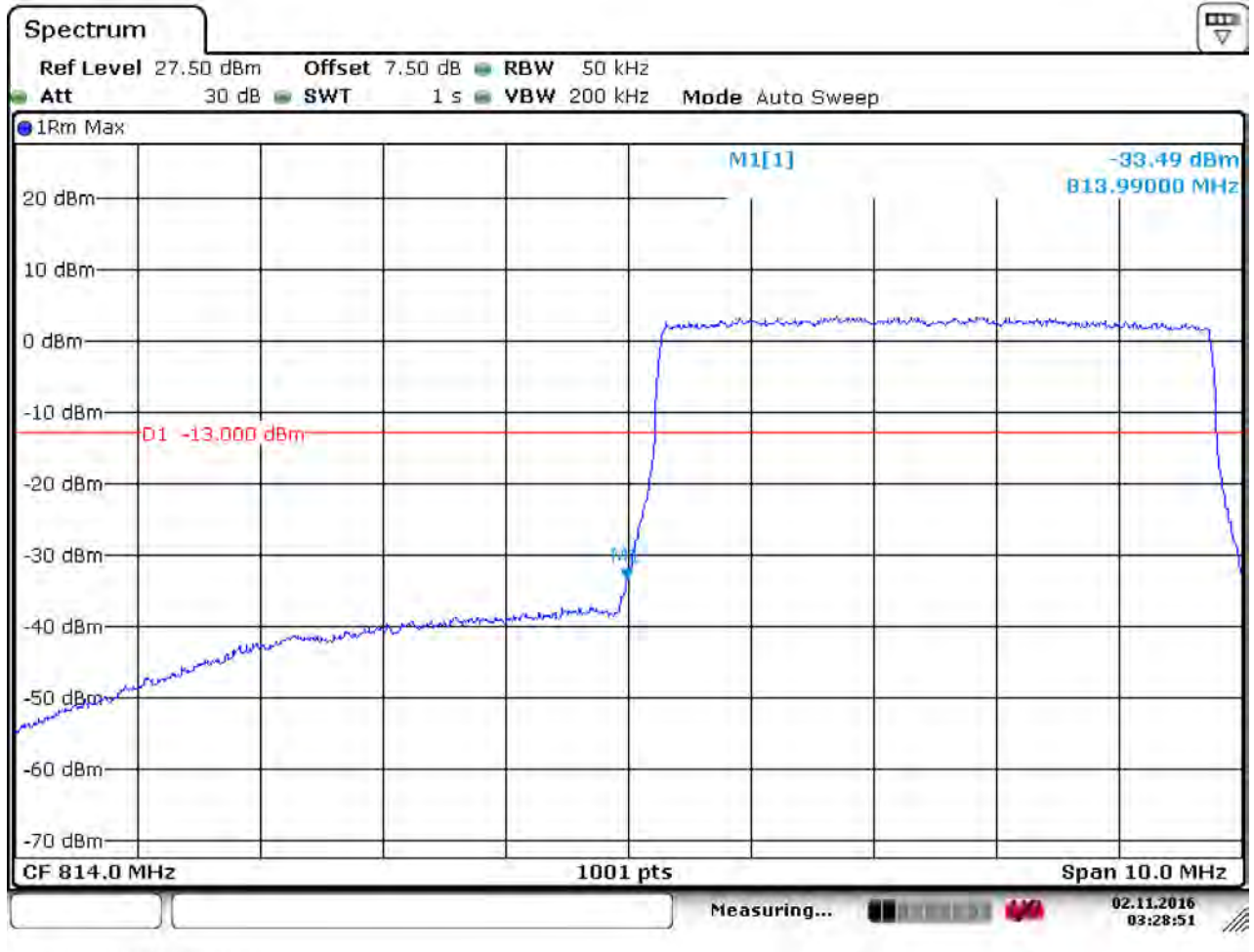
5.1.1.8.1.1 Test RB=1RB



Date: 2.NOV.2016 03:27:20



5.1.1.8.1.2 Test RB=25RB

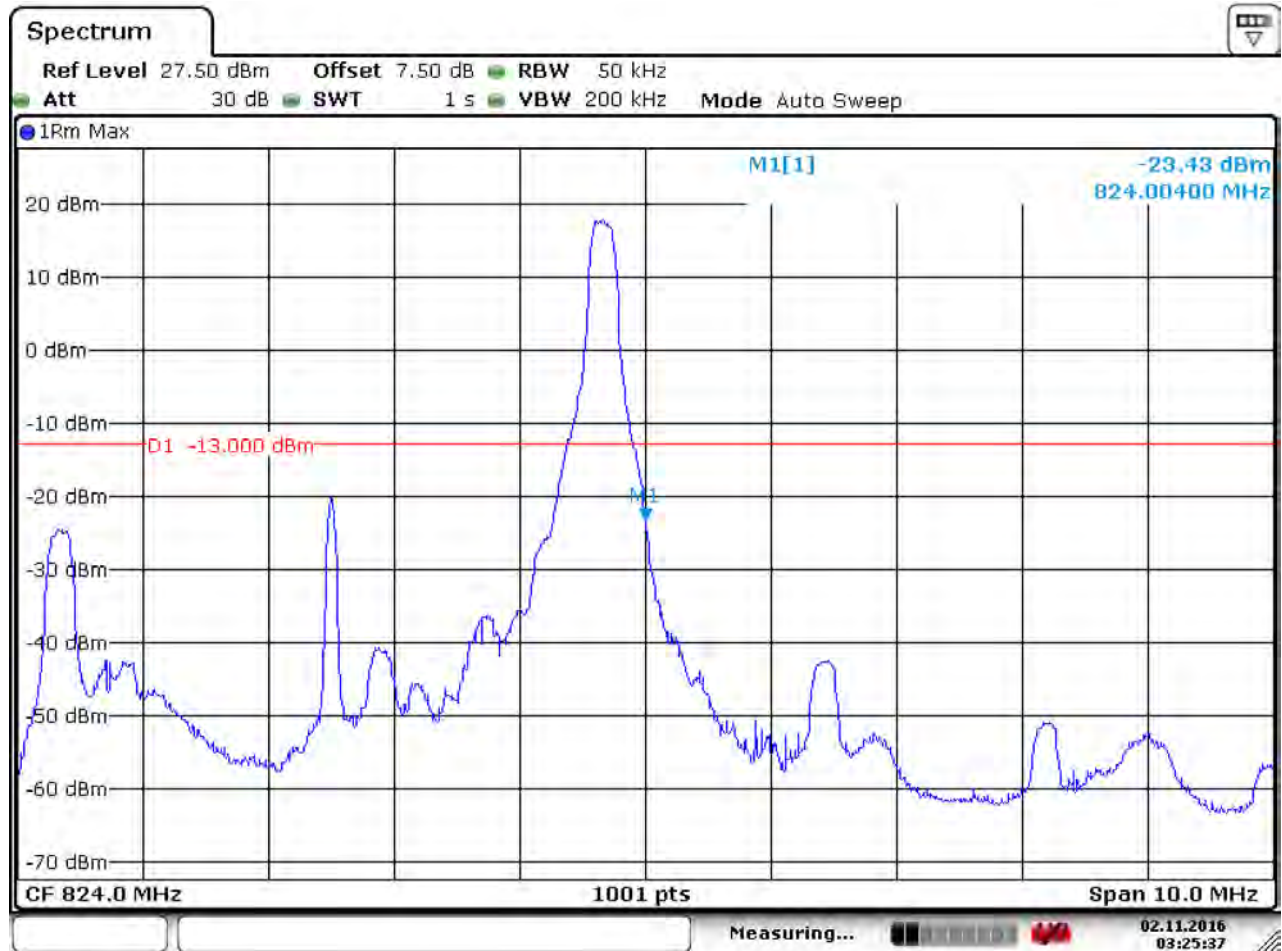


Date: 2.NOV.2016 03:28:51



5.1.1.8.2 Test Channel = HCH

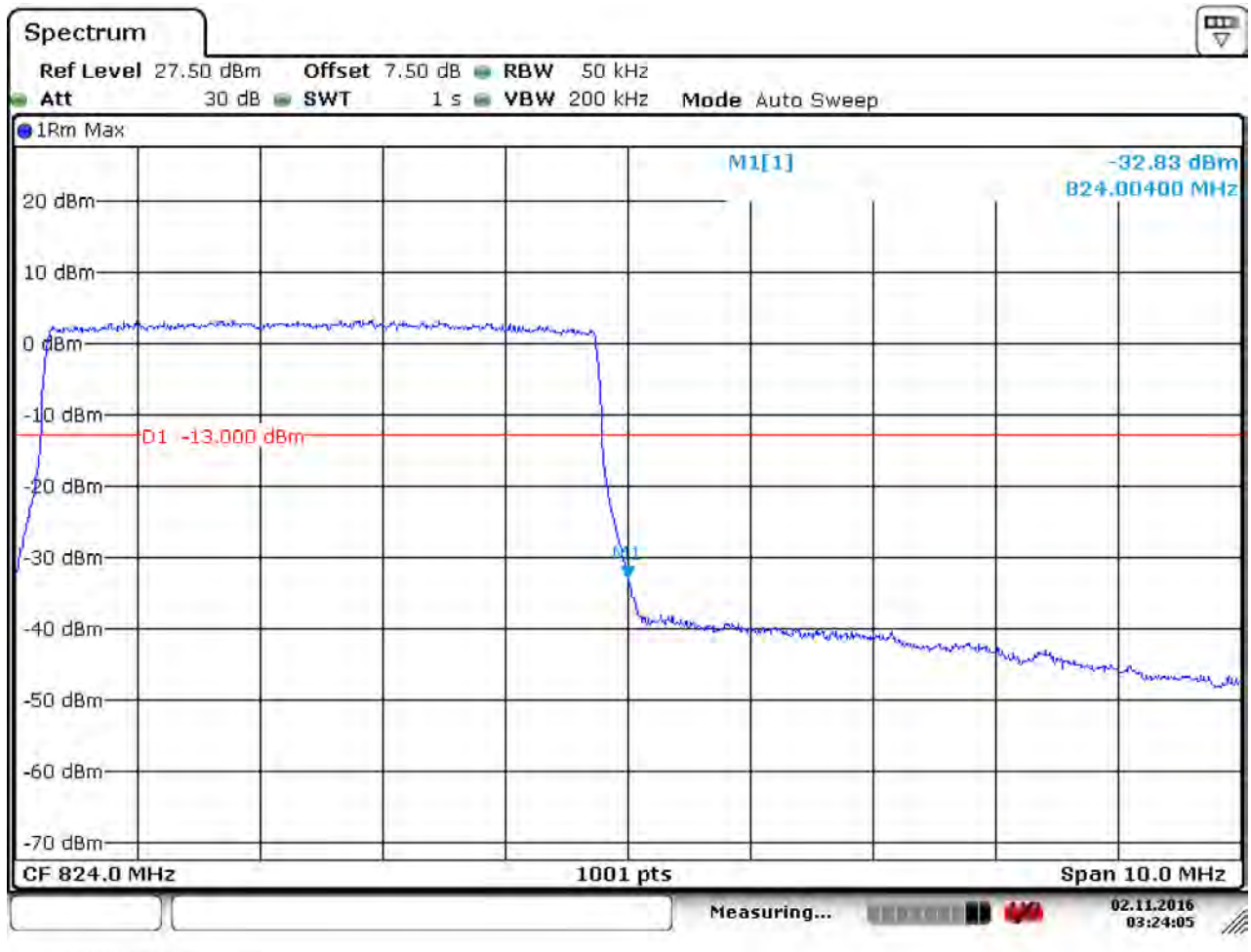
5.1.1.8.2.1 Test RB=1RB



Date: 2.NOV.2016 03:25:38



5.1.1.8.2.2 Test RB=25RB



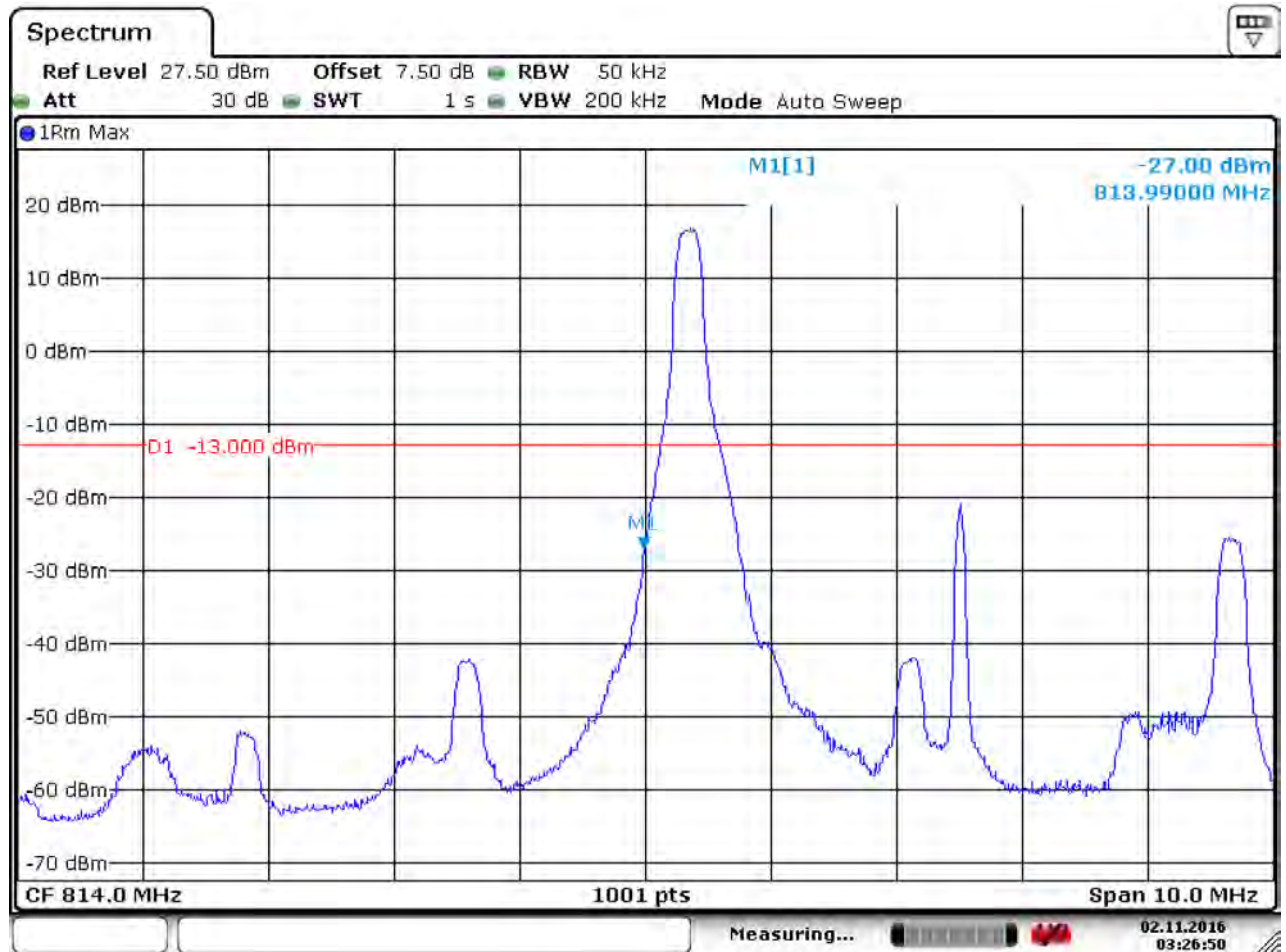
Date: 2.NOV.2016 03:24:05



5.1.1.9 Test Mode = LTE/TM3 5MHz

5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 2.NOV.2016 03:26:50



5.1.1.9.1.2 Test RB=25RB

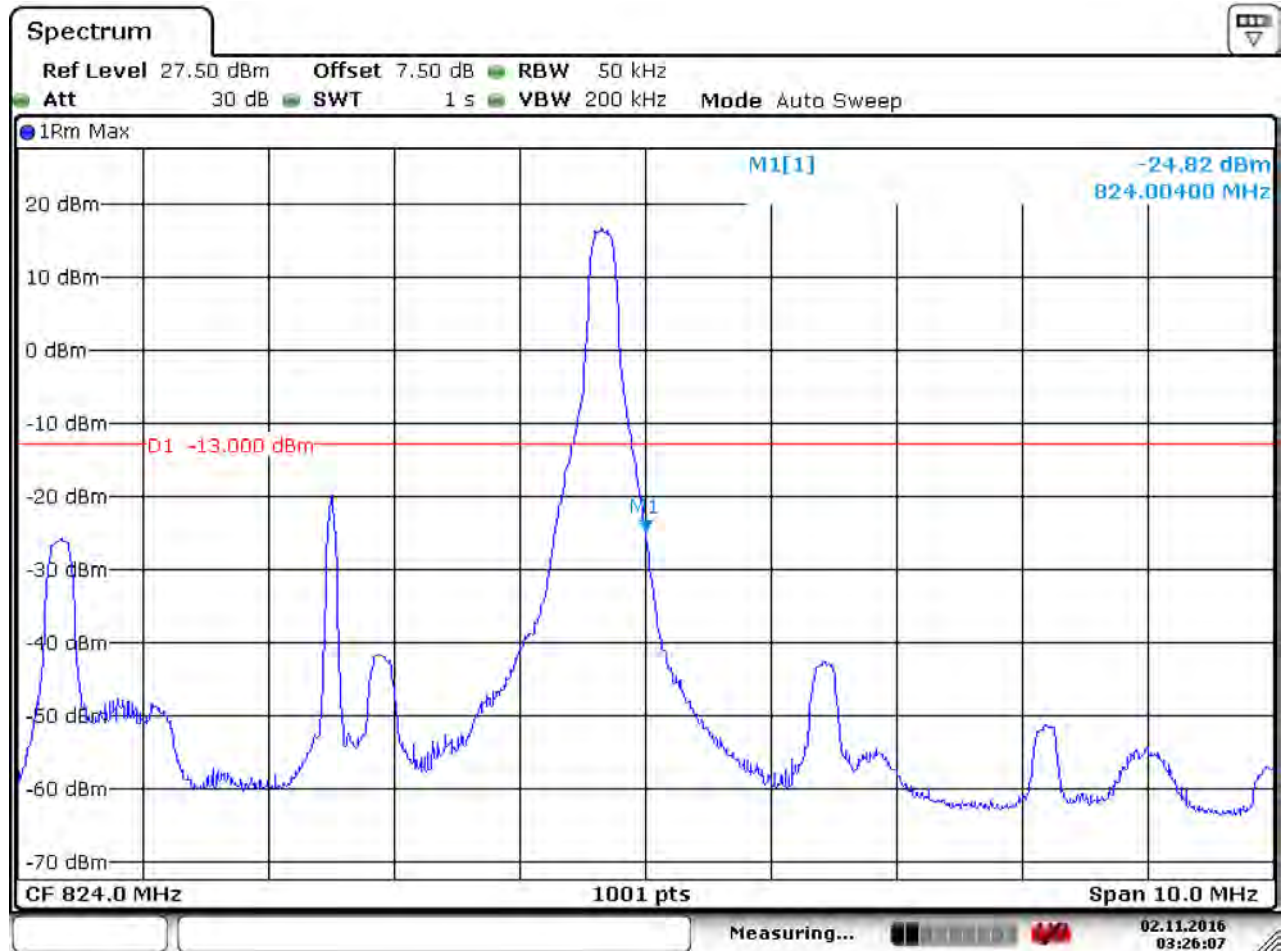


Date: 2.NOV.2016 03:29:25



5.1.1.9.2 Test Channel = HCH

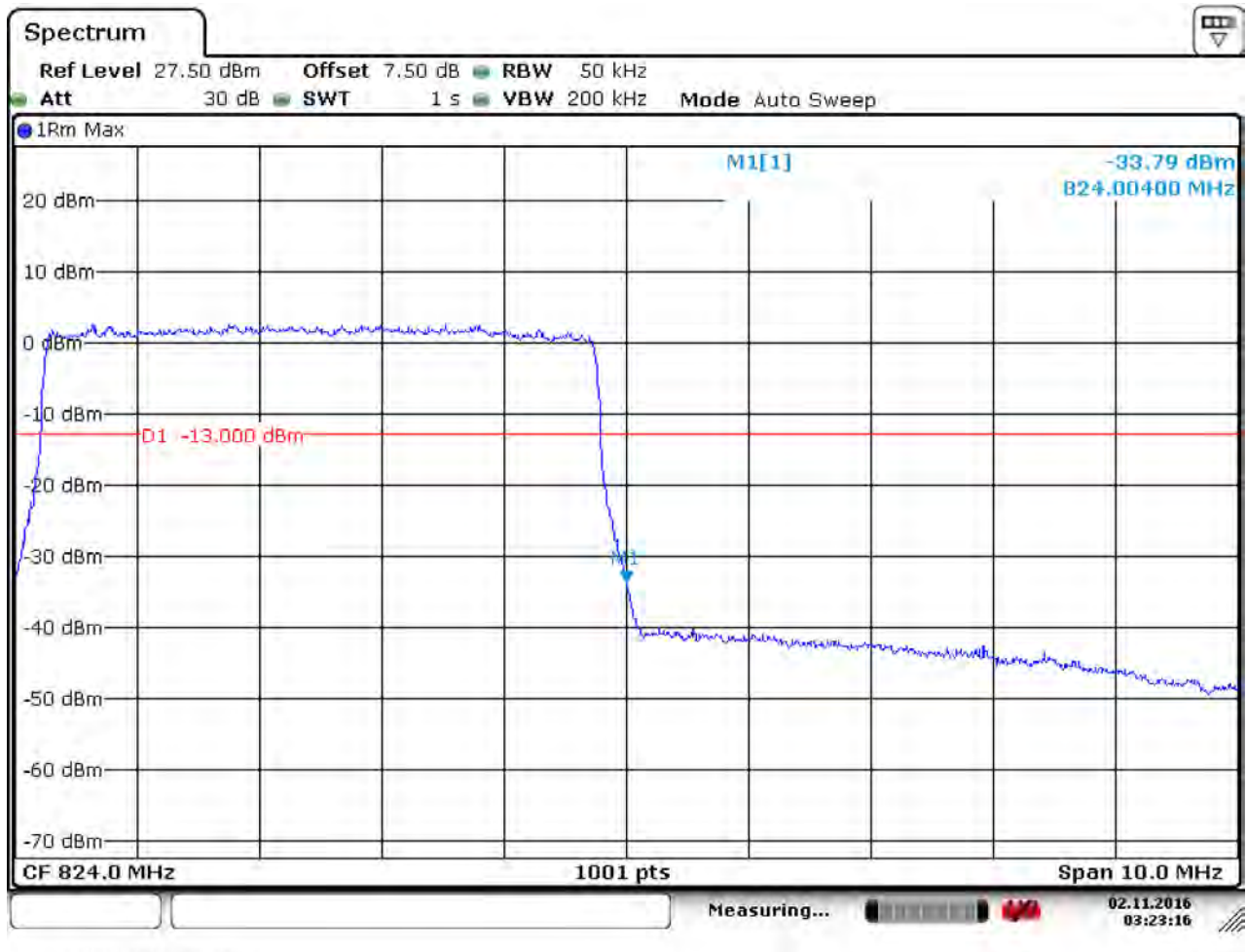
5.1.1.9.2.1 Test RB=1RB



Date: 2.NOV.2016 03:26:08



5.1.1.9.2.2 Test RB=25RB



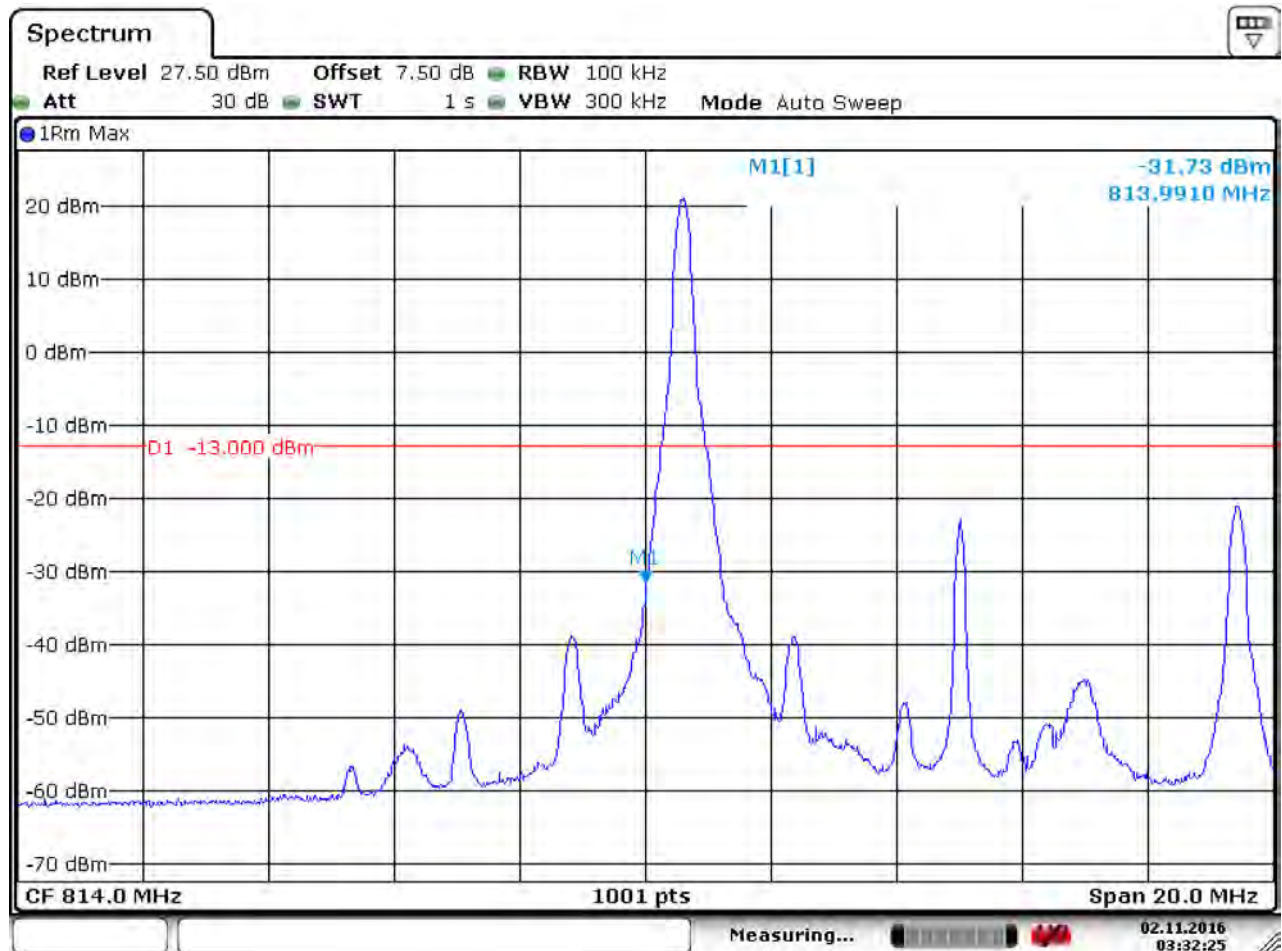
Date: 2.NOV.2016 03:23:16



5.1.1.10 Test Mode = LTE/TM1 10MHz

5.1.1.10.1 Test Channel = LCH

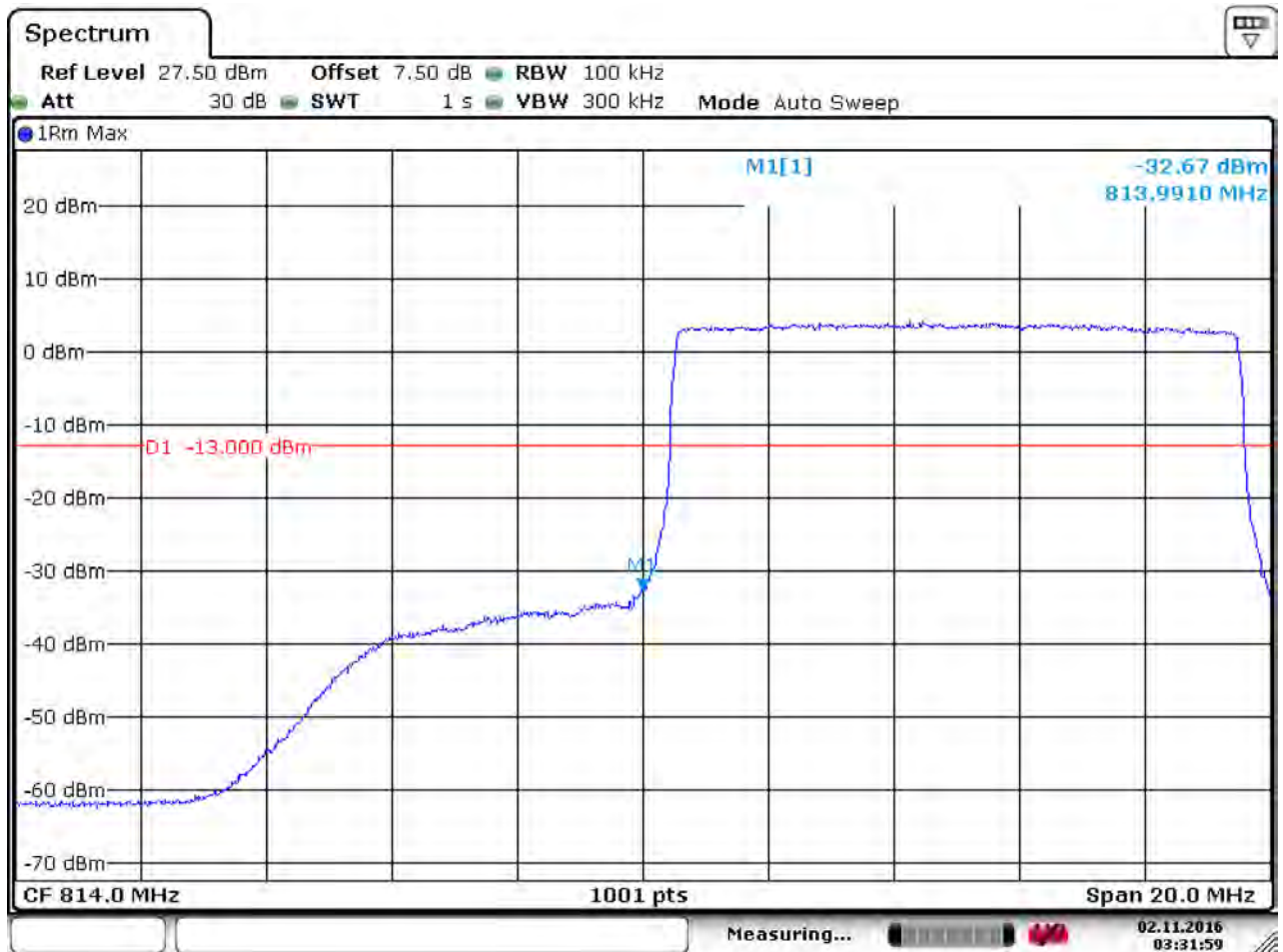
5.1.1.10.1.1 Test RB=1RB



Date: 2.NOV.2016 03:32:26



5.1.1.10.1.2 Test RB=50RB

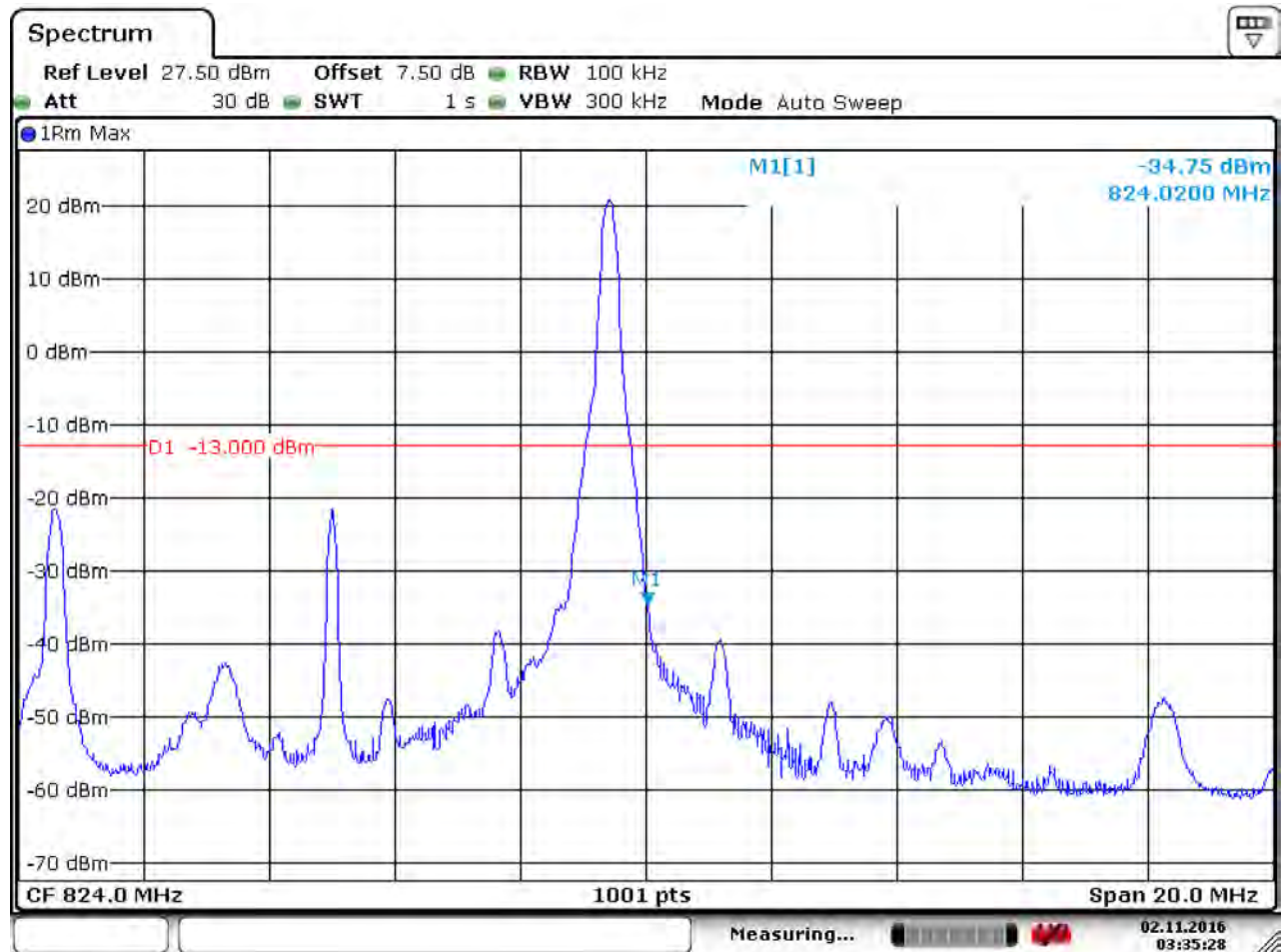


Date: 2.NOV.2016 03:32:00



5.1.1.10.2 Test Channel = HCH

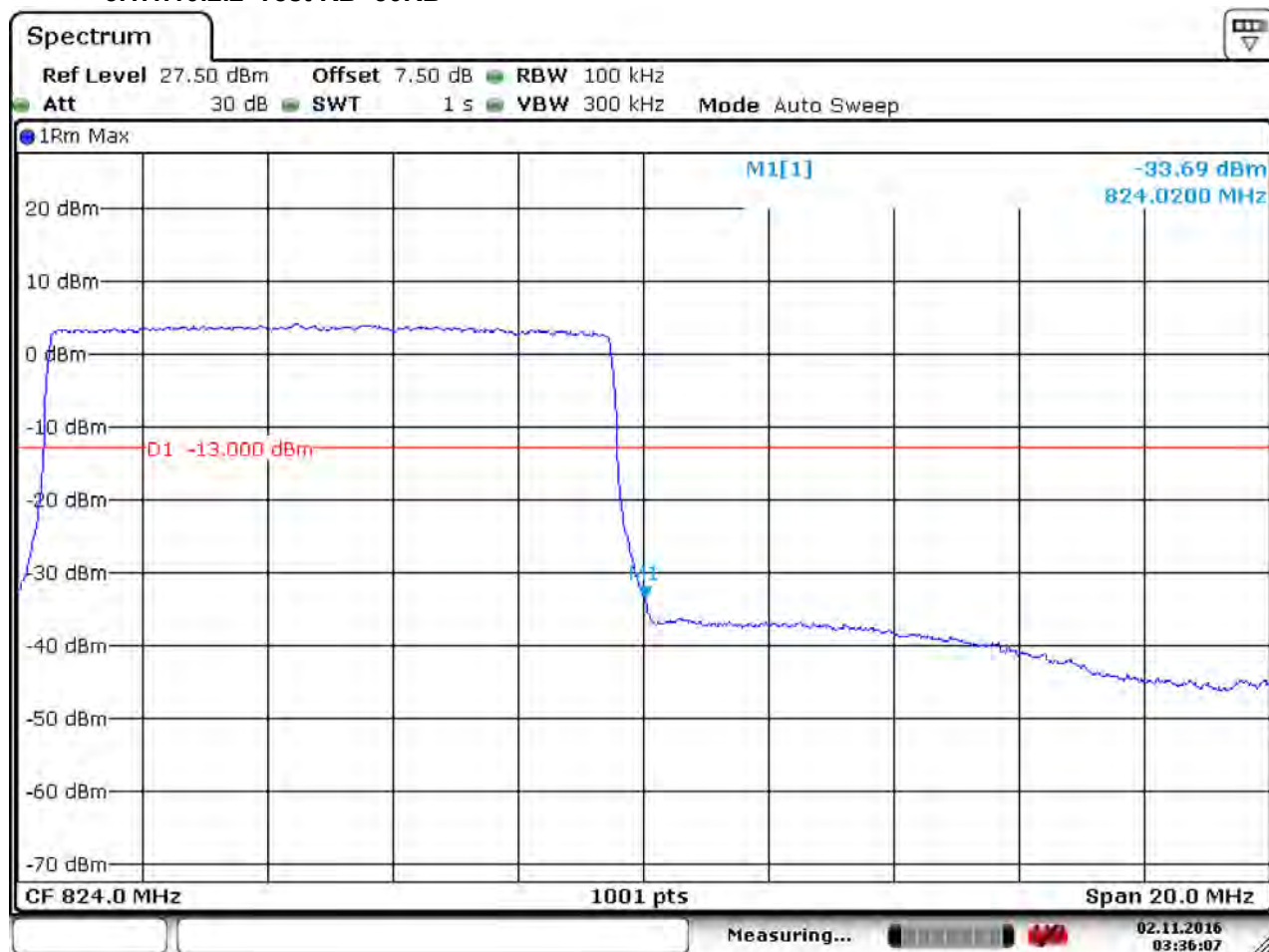
5.1.1.10.2.1 Test RB=1RB



Date: 2.NOV.2016 03:35:29



5.1.1.10.2.2 Test RB=50RB



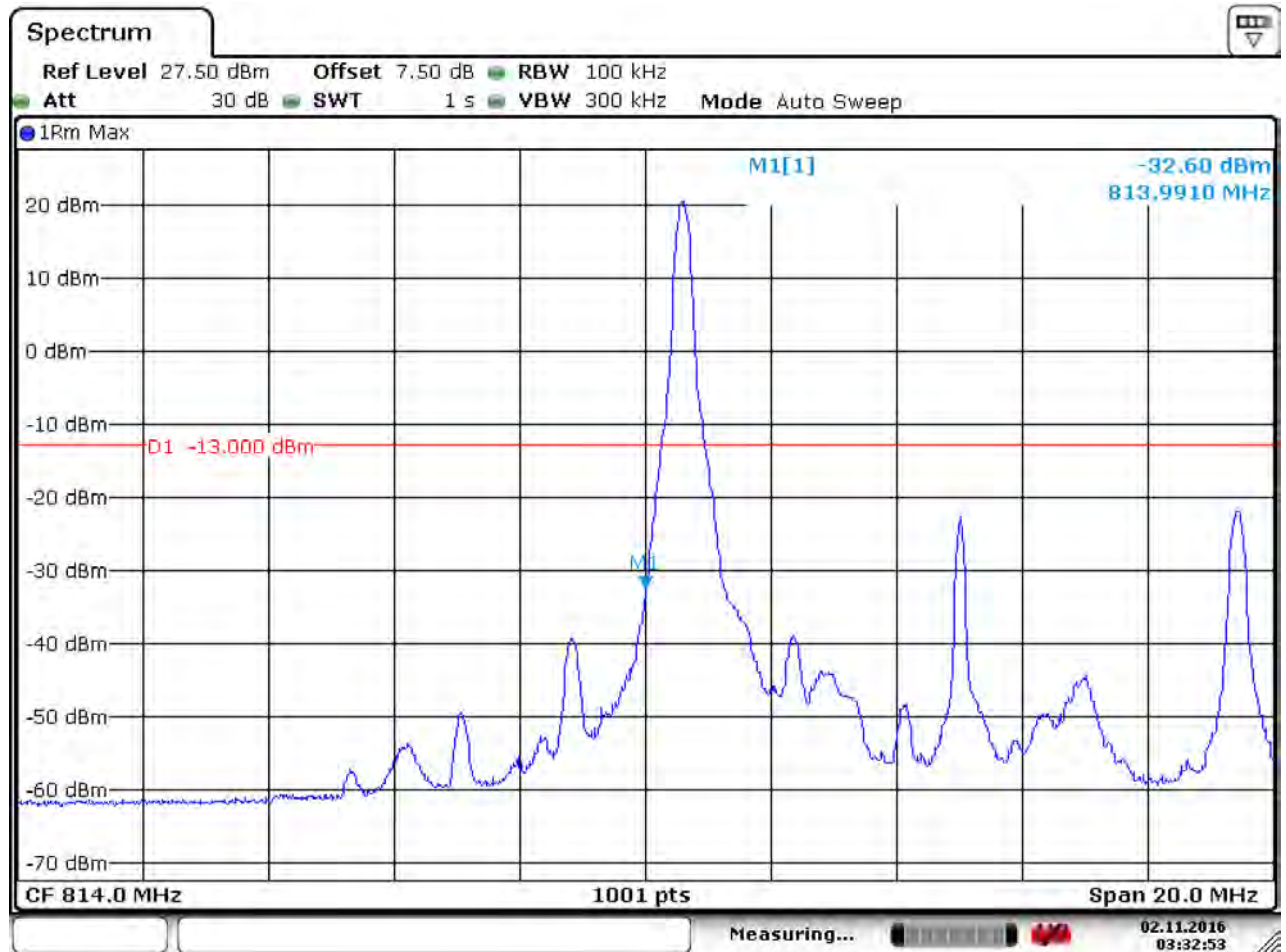
Date: 2.NOV.2016 03:36:07



5.1.1.11 Test Mode = LTE/TM2 10MHz

5.1.1.11.1 Test Channel = LCH

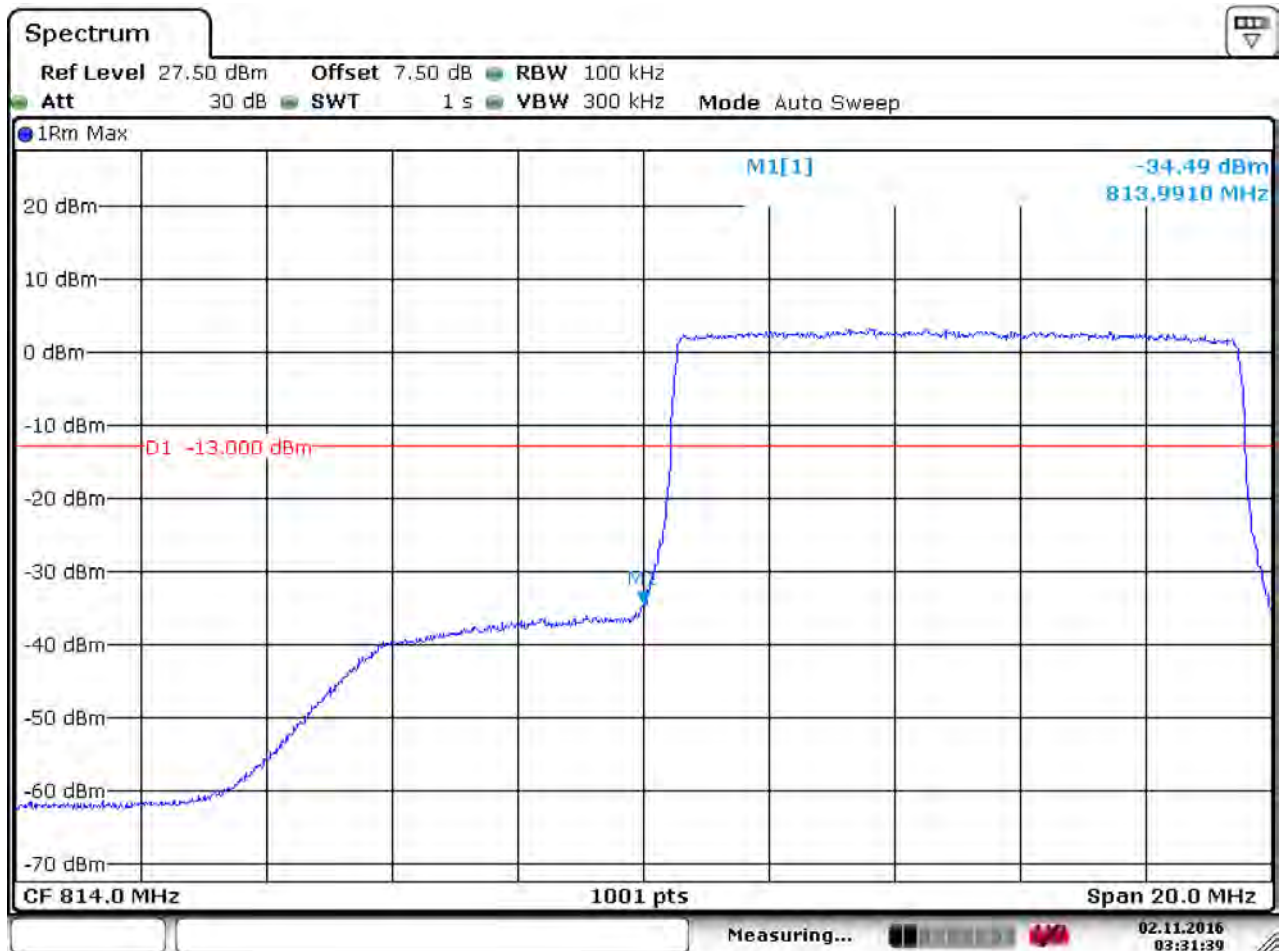
5.1.1.11.1.1 Test RB=1RB



Date: 2.NOV.2016 03:32:53



5.1.1.11.1.2 Test RB=50RB

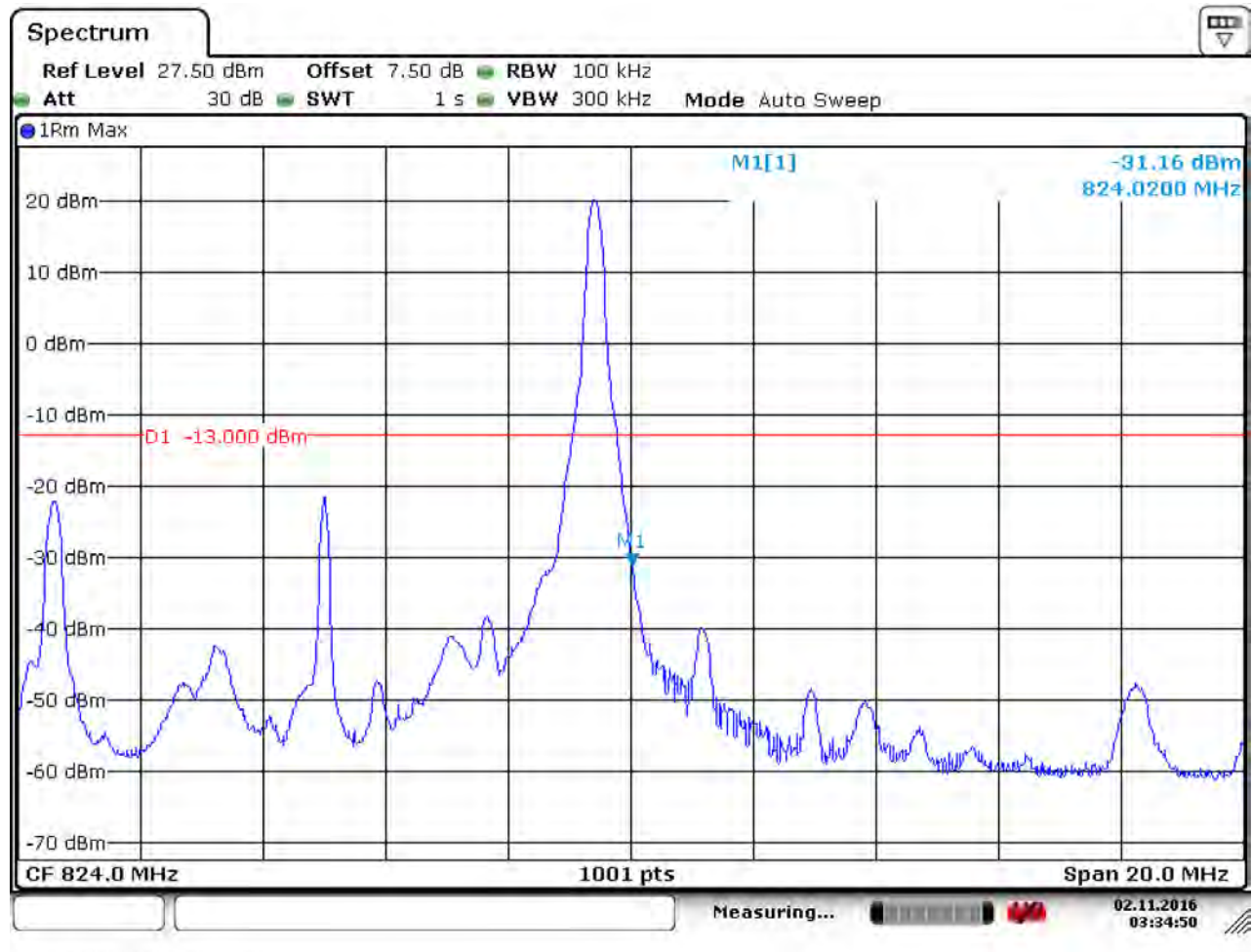


Date: 2.NOV.2016 03:31:40



5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



Date: 2.NOV.2016 03:34:51



5.1.1.11.2.2 Test RB=50RB



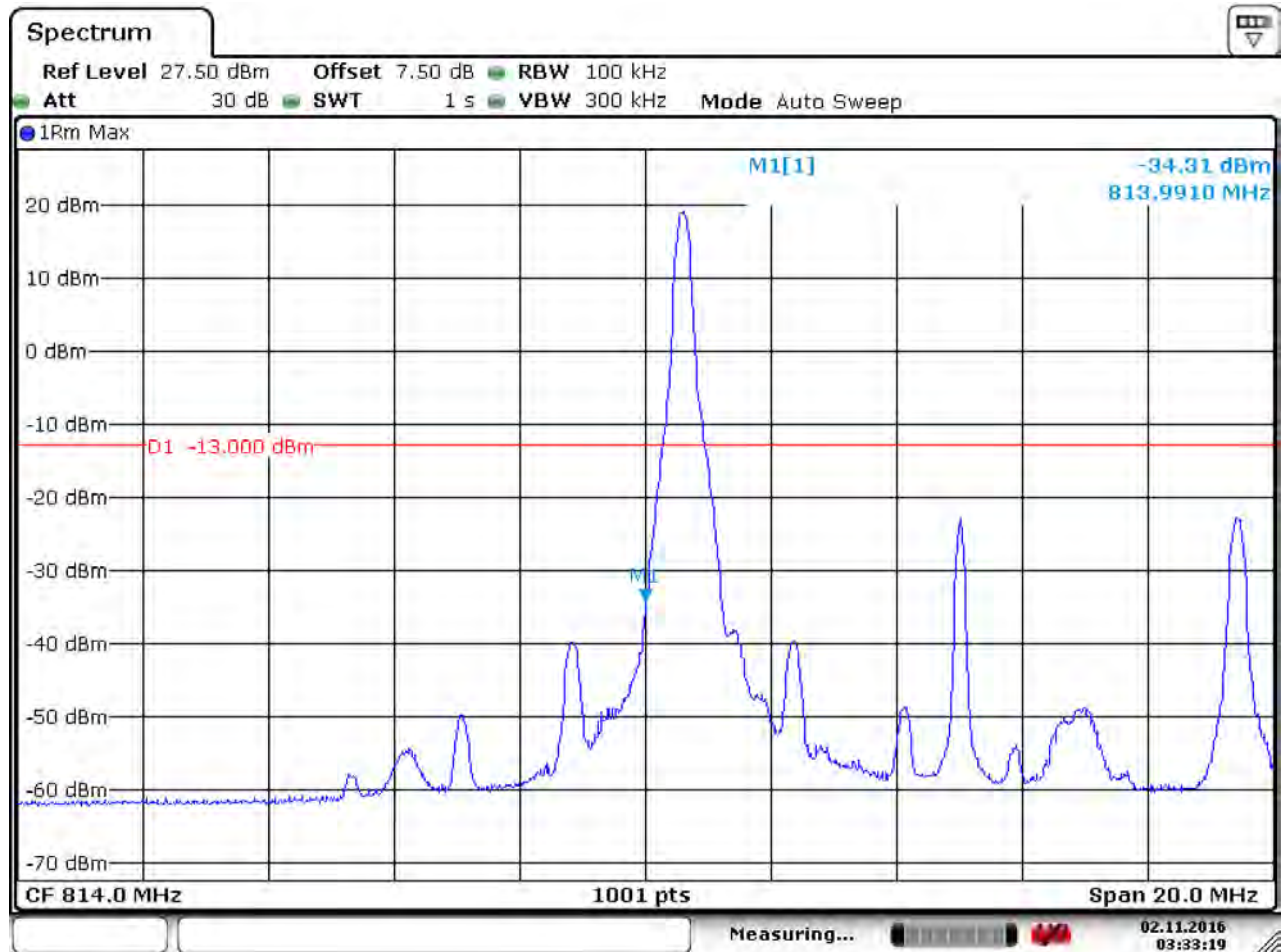
Date: 2.NOV.2016 03:36:31



5.1.1.12 Test Mode = LTE/TM3 10MHz

5.1.1.12.1 Test Channel = LCH

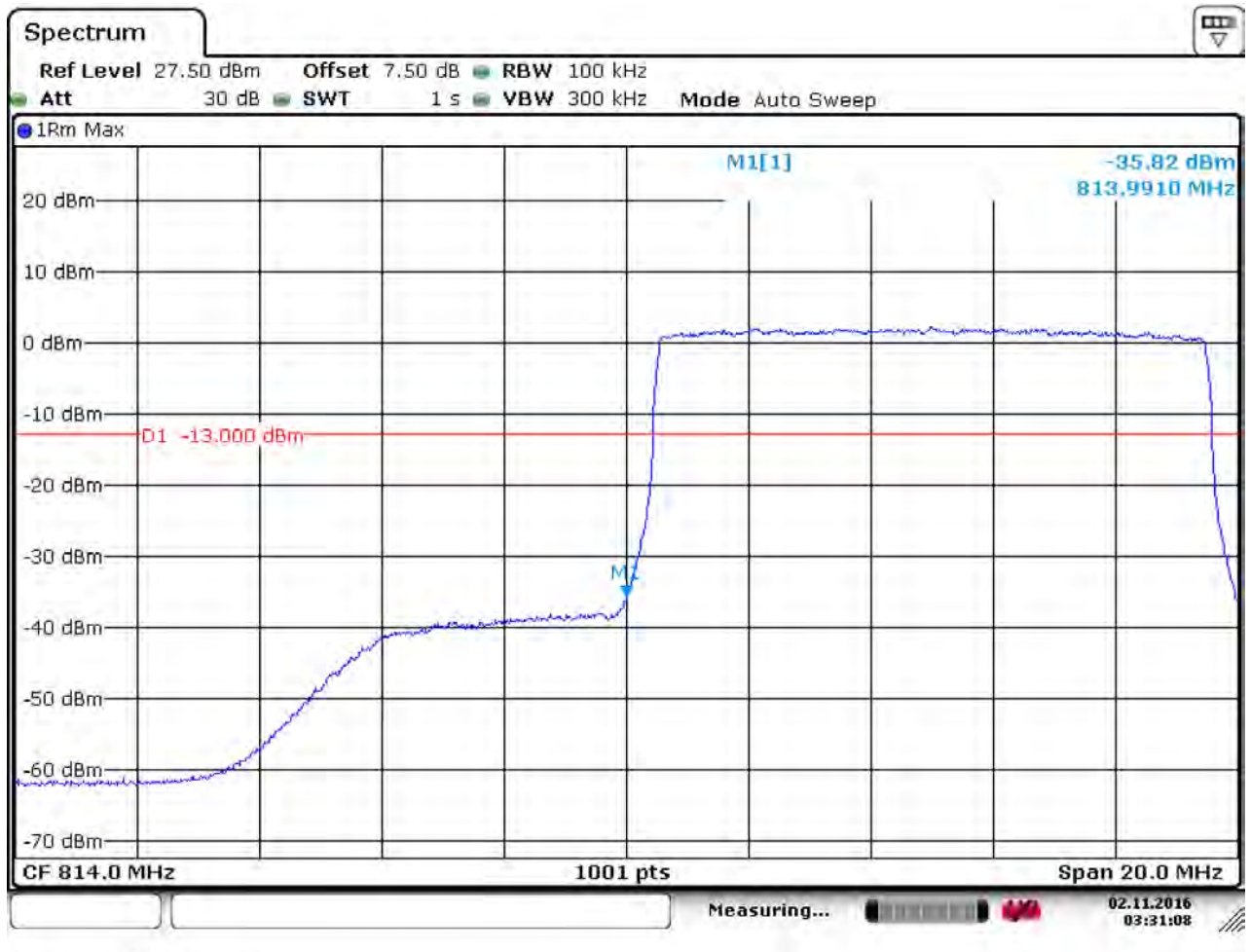
5.1.1.12.1.1 Test RB=1RB



Date: 2.NOV.2016 03:33:20



5.1.12.1.2 Test RB=50RB

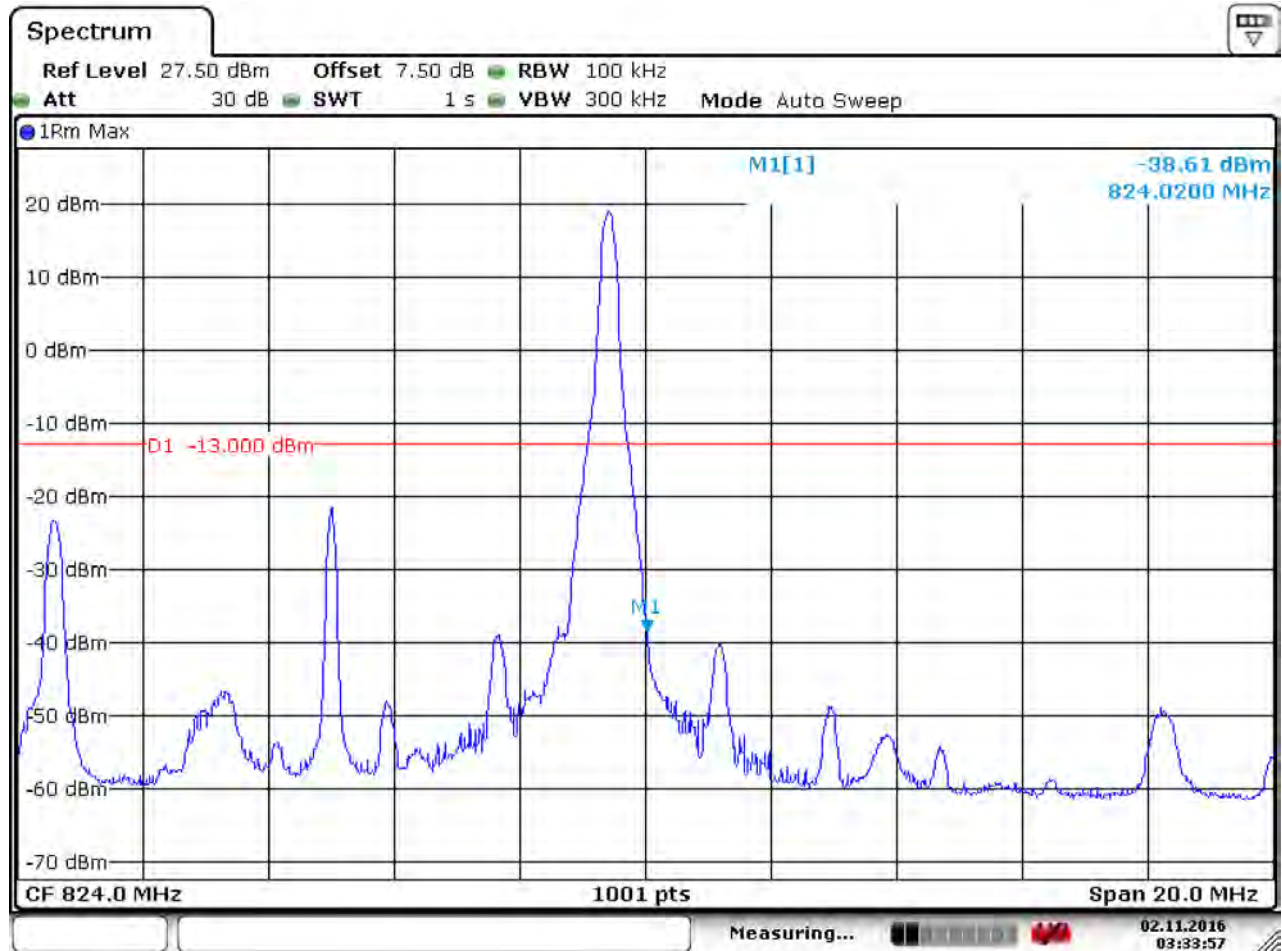


Date: 2.NOV.2016 03:31:09



5.1.1.12.2 Test Channel = HCH

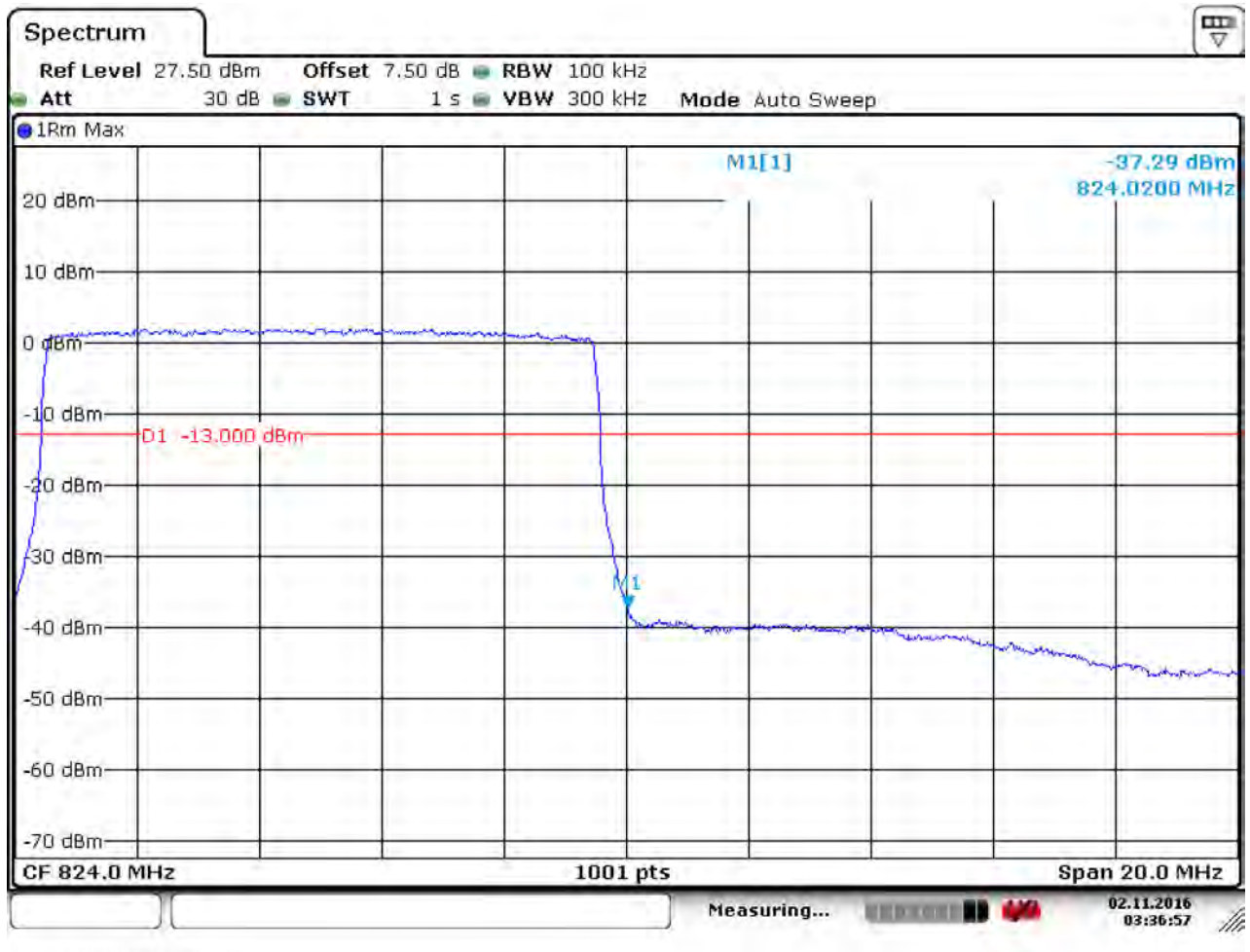
5.1.1.12.2.1 Test RB=1RB



Date: 2.NOV.2016 03:33:57



5.1.1.12.2.2 Test RB=50RB



Date: 2.NOV.2016 03:36:57

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.

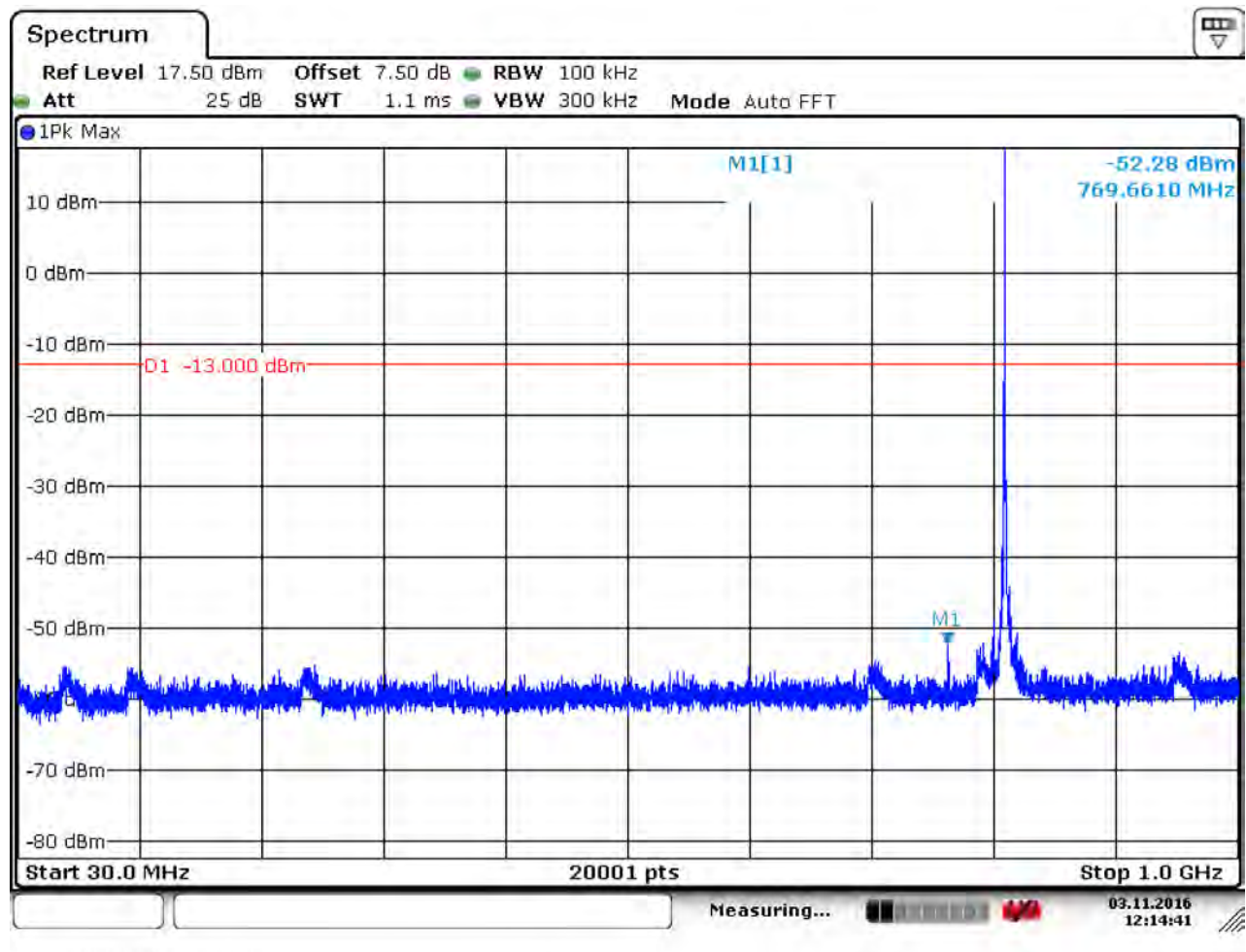
Part I - Test Plots

6.1 For LTE

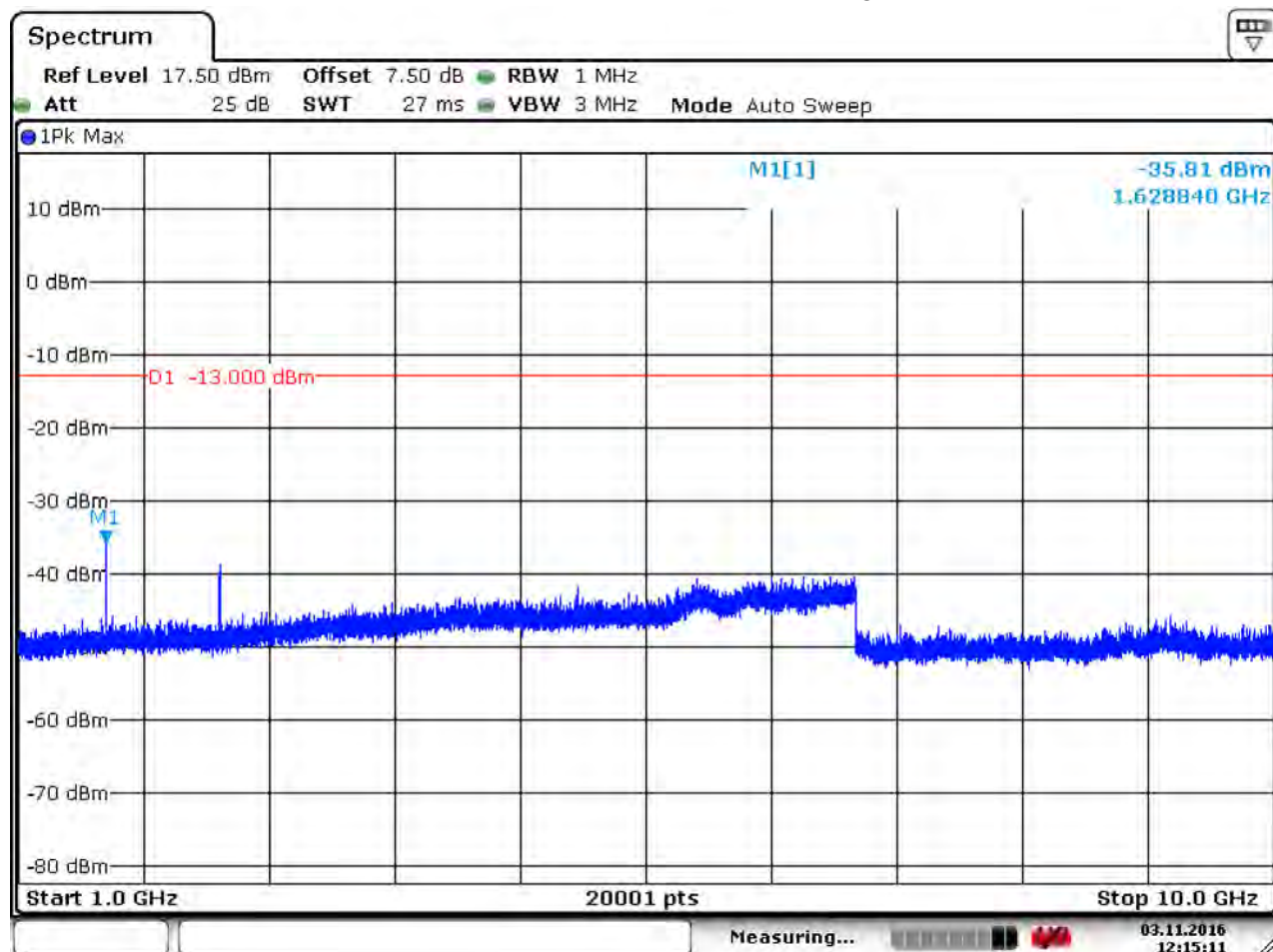
6.1.1 Test Band = LTE band26

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

6.1.1.1.1 Test Channel = LCH



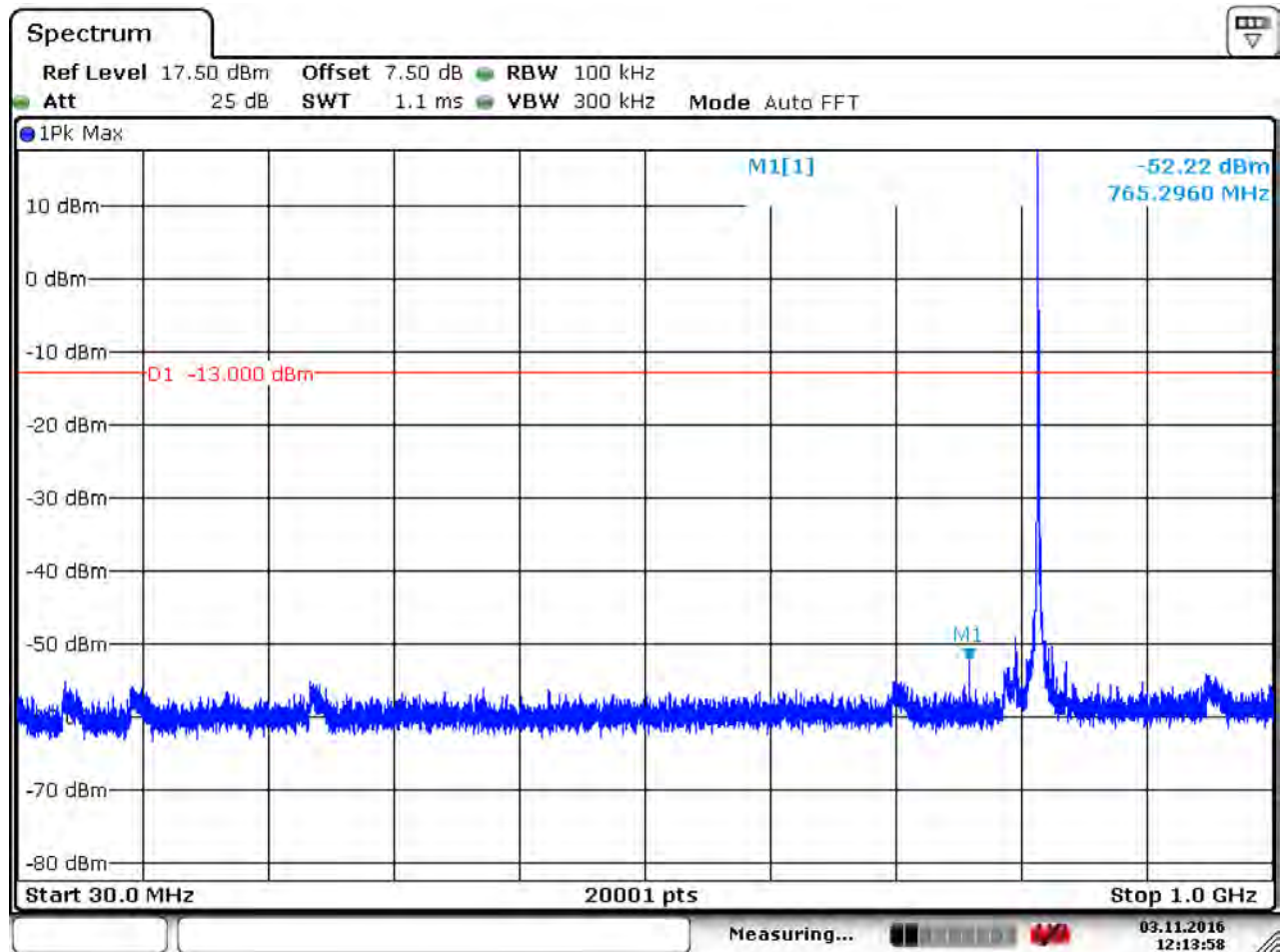
Date: 3.NOV.2016 12:14:42



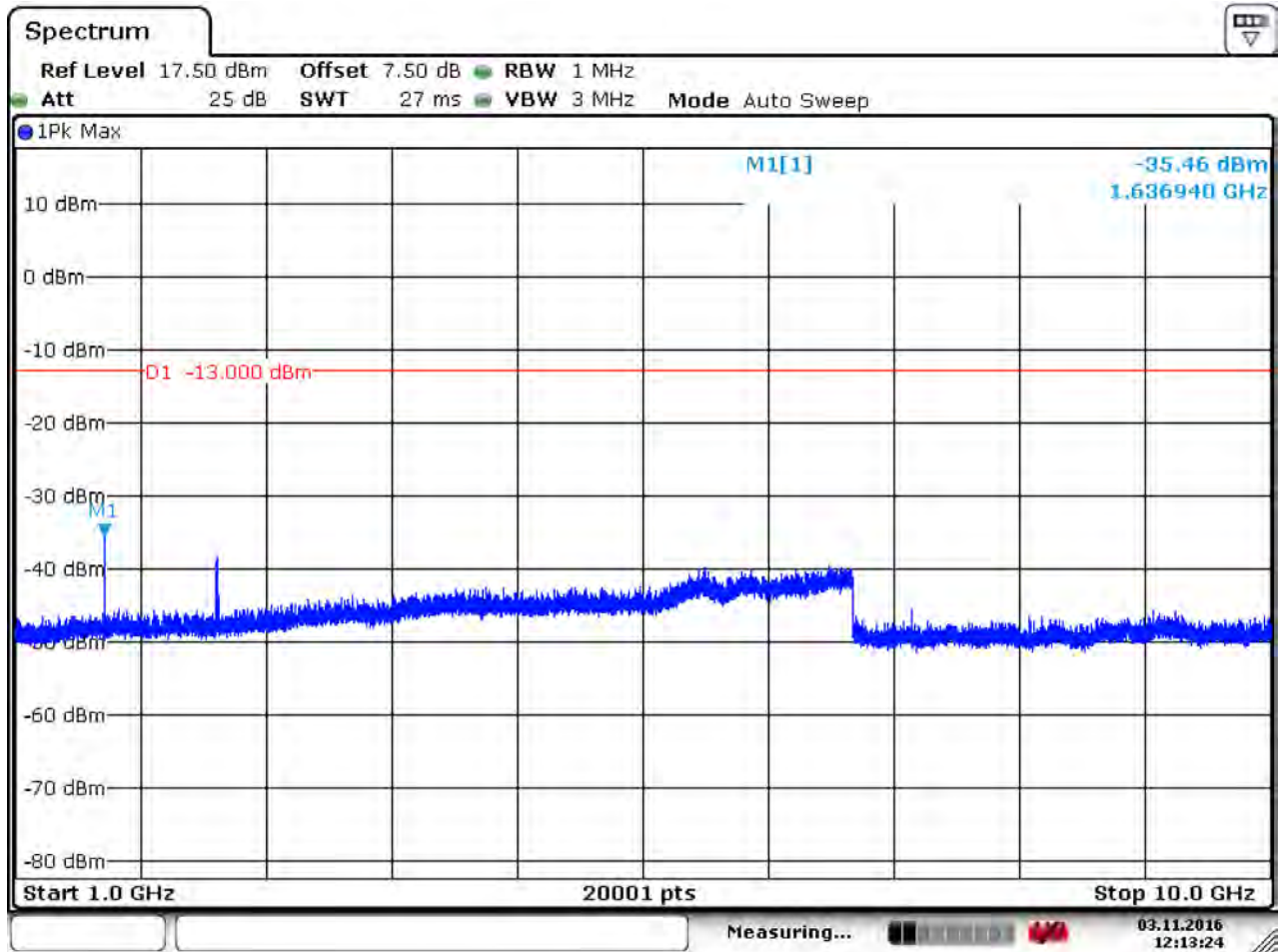
Date: 3.NOV.2016 12:15:11



6.1.1.1.2 Test Channel = MCH



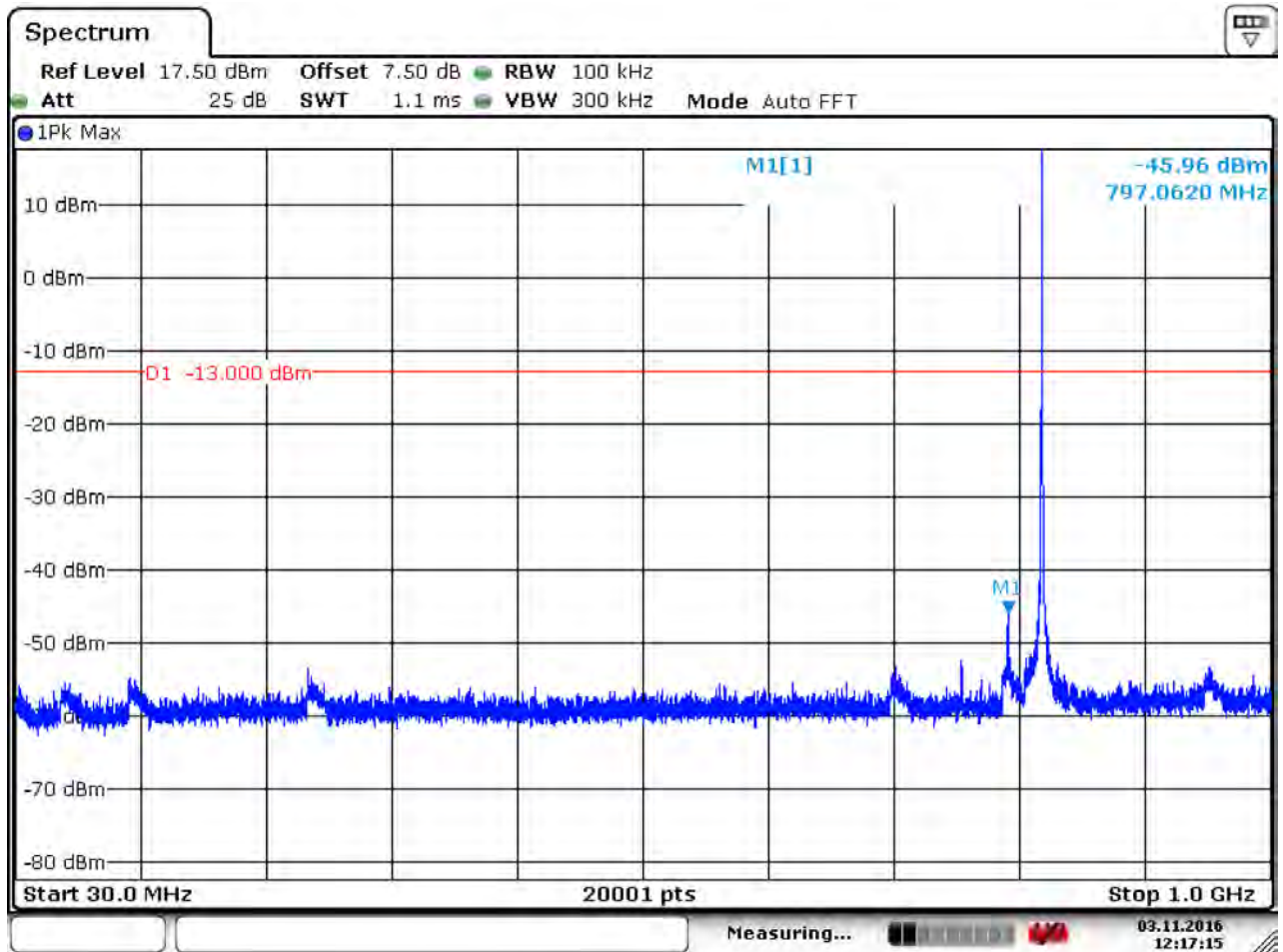
Date: 3 NOV 2016 12:13:59



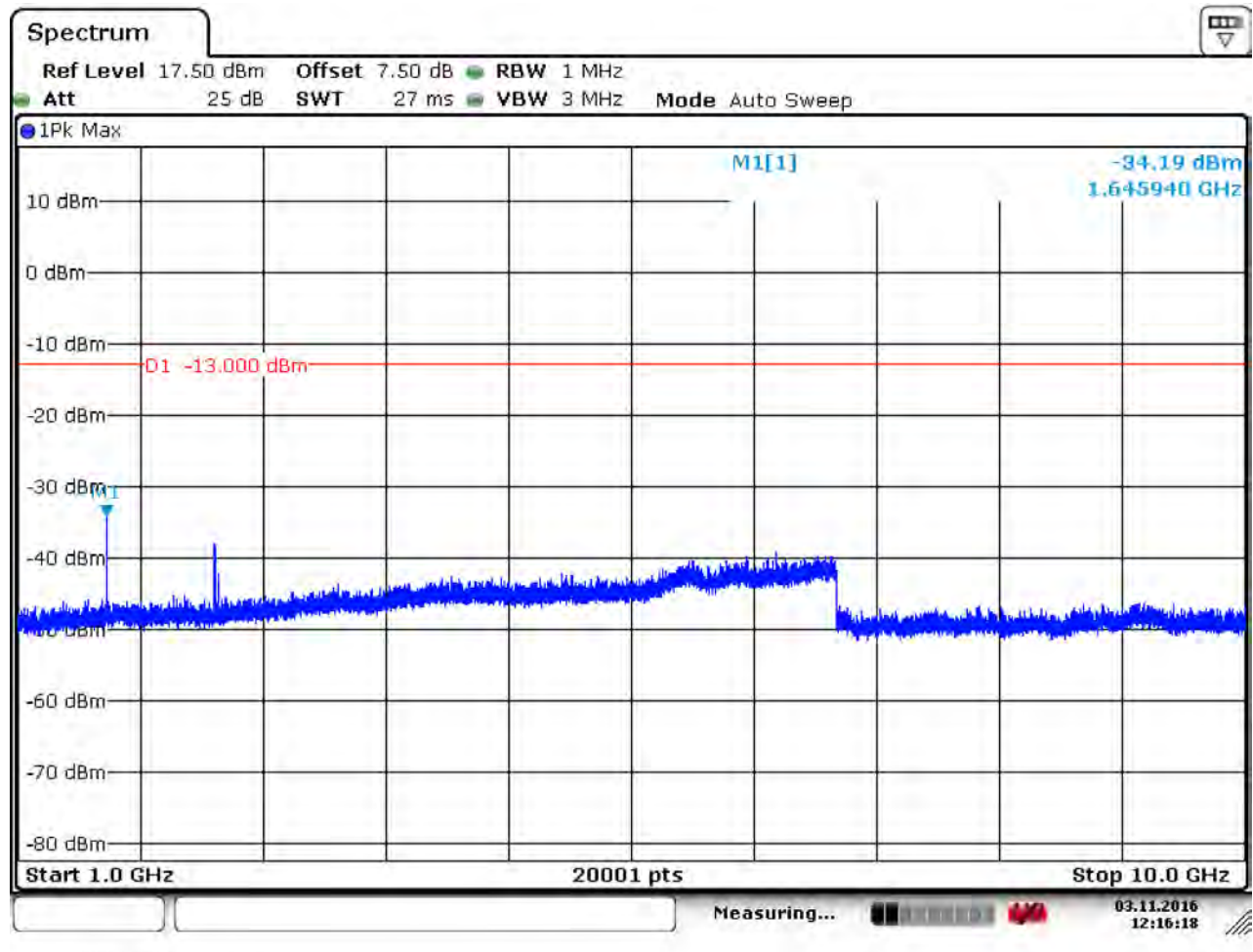
Date: 3.NOV.2016 12:13:25



6.1.1.1.3 Test Channel = HCH



Date: 3.NOV.2016 12:17:15

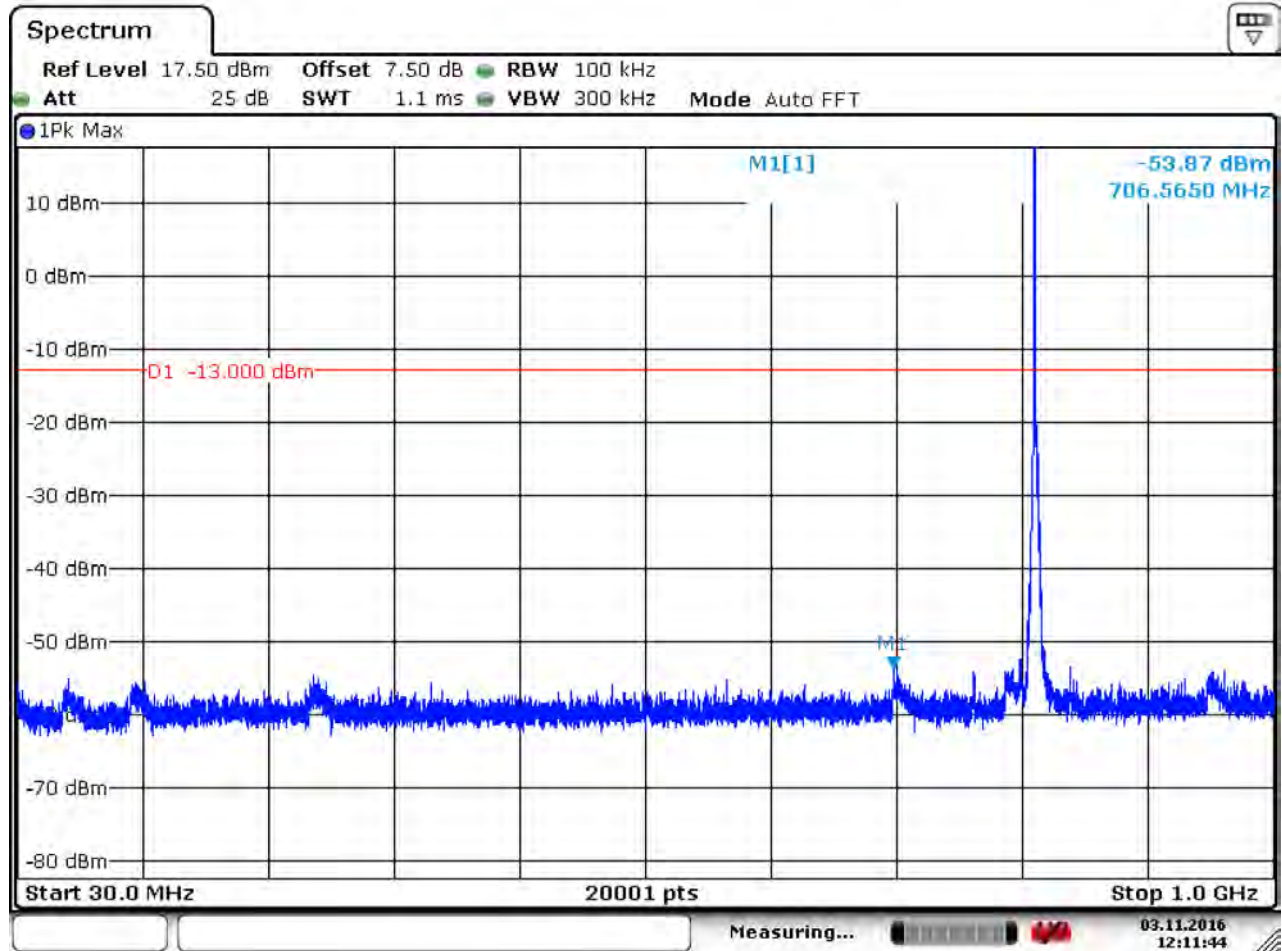


Date: 3.NOV.2016 12:16:19



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

6.1.1.2.1 Test Channel = LCH



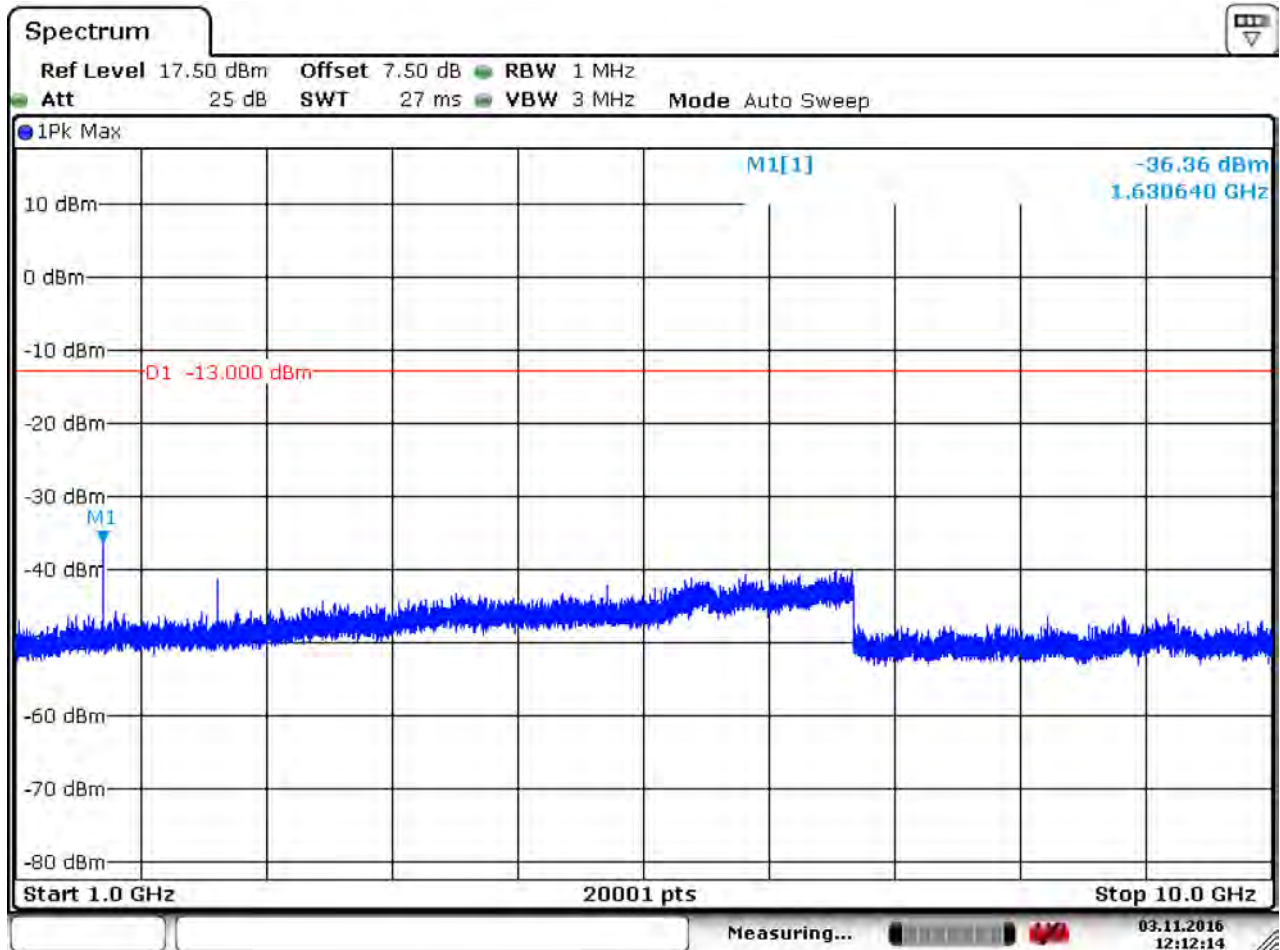
Date: 3.NOV.2016 12:11:44



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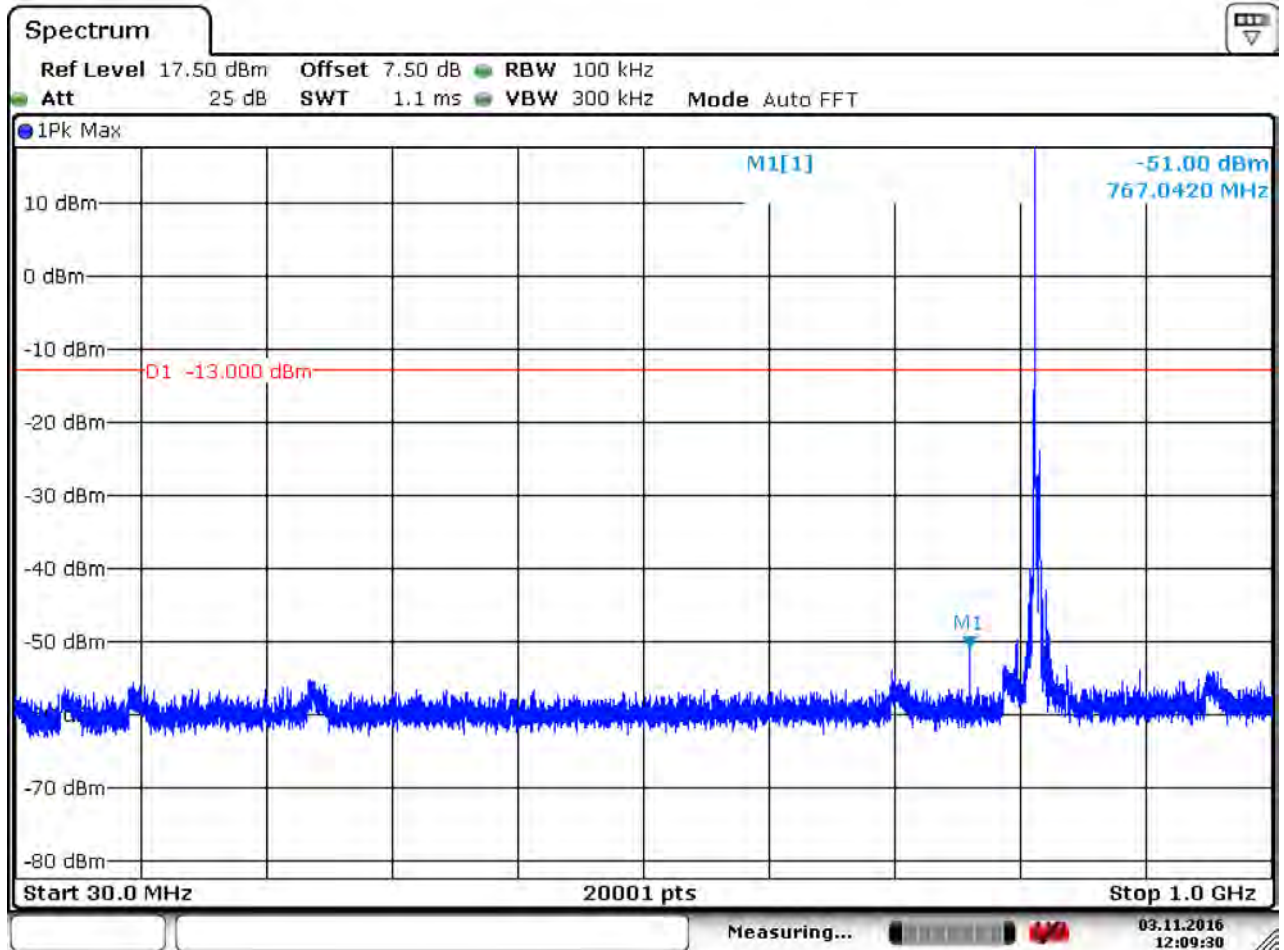


Date: 3.NOV.2016 12:12:15

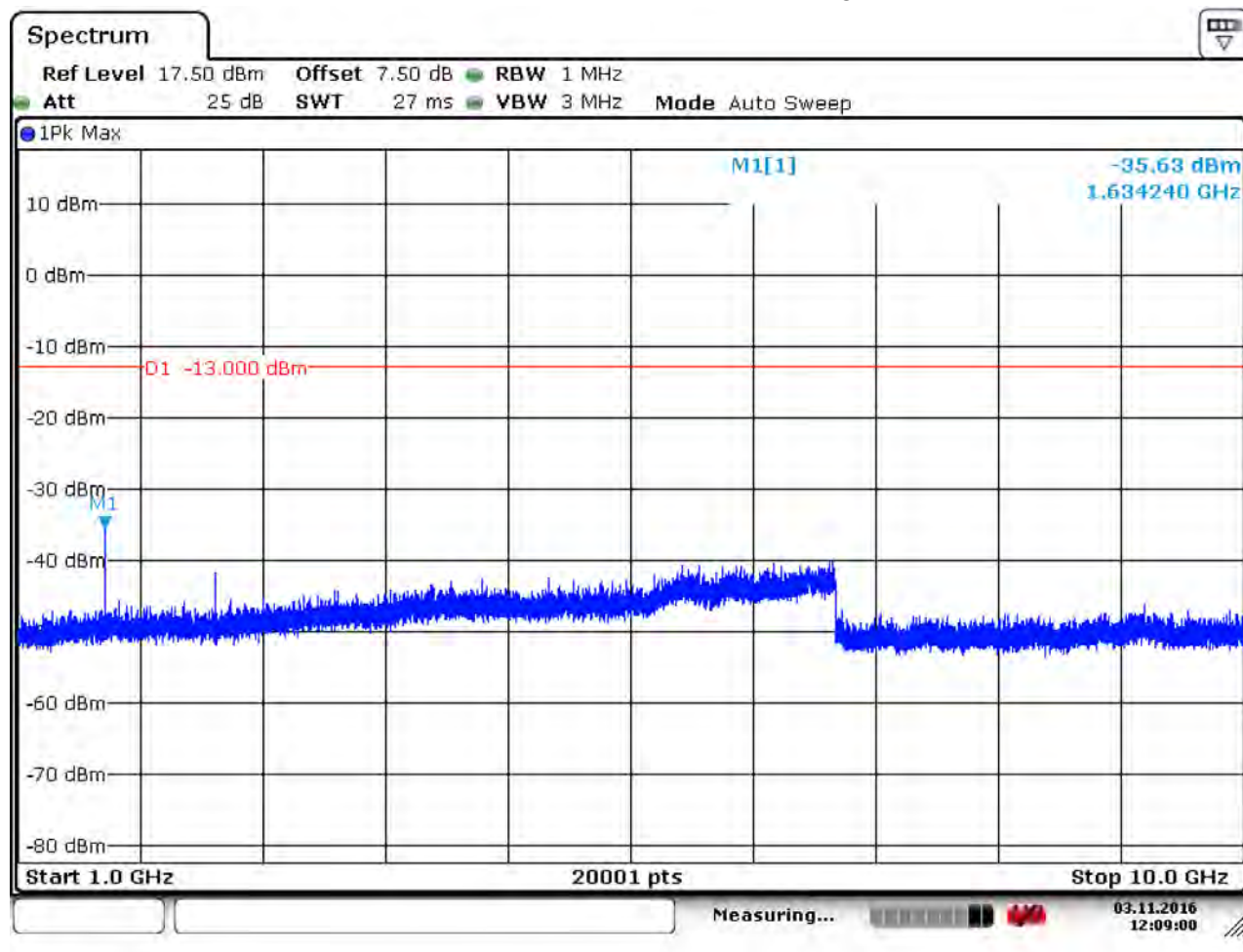
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6.1.1.2.2 Test Channel = MCH



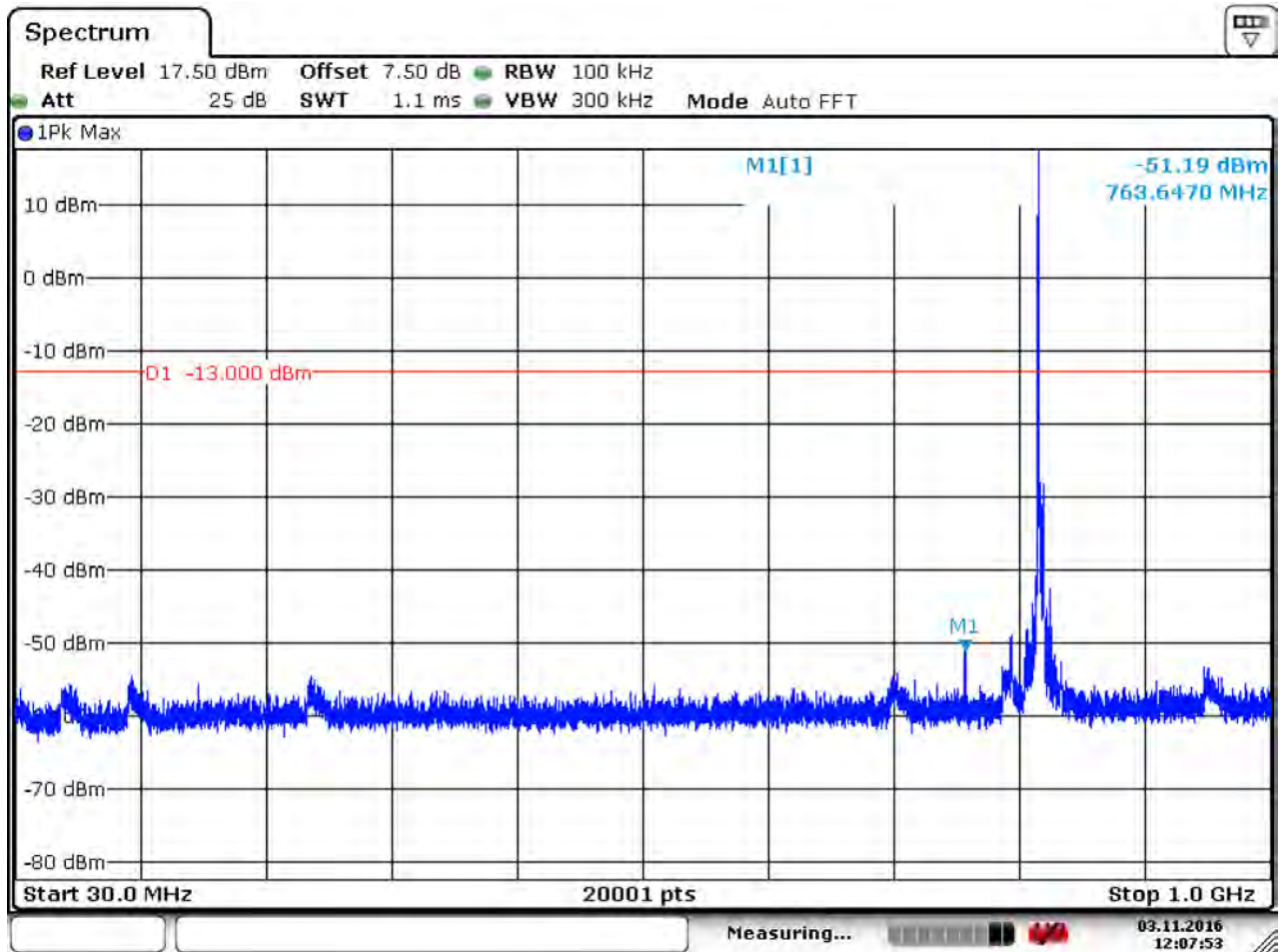
Date: 3 NOV. 2016 12:09:30



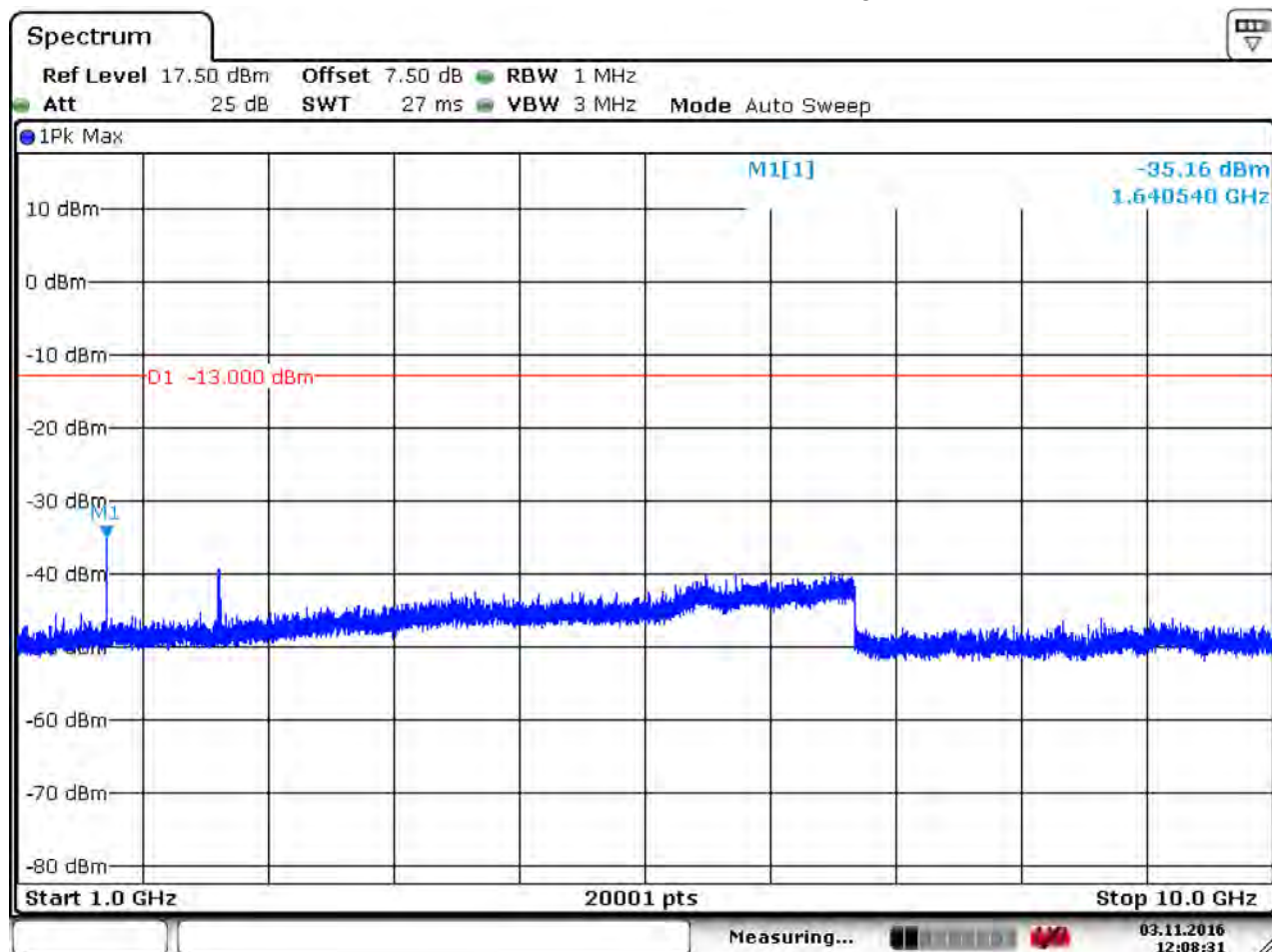
Date: 3.NOV.2016 12:09:00



6.1.1.2.3 Test Channel = HCH



Date: 3.NOV.2016 12:07:53

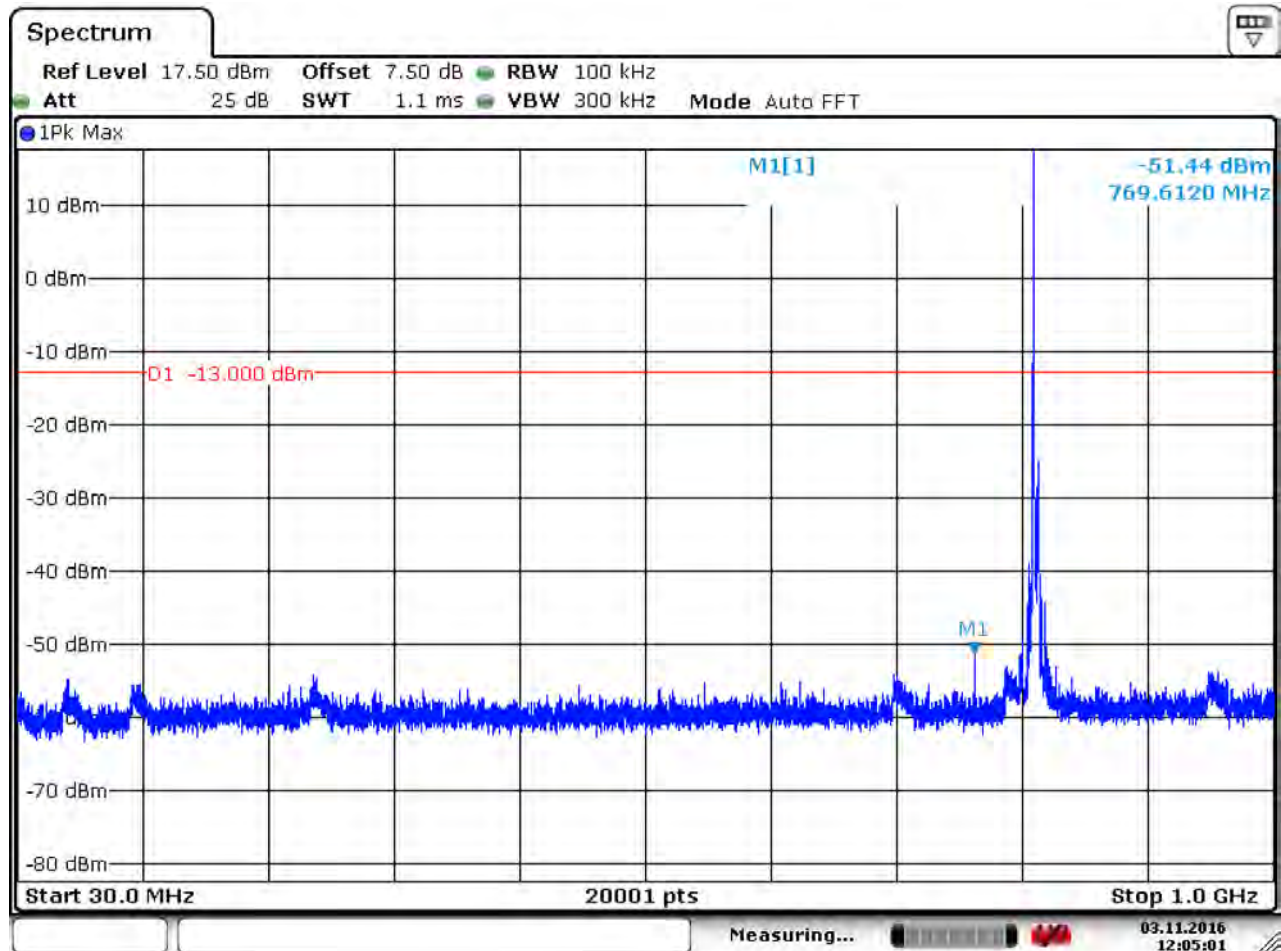


Date: 3.NOV.2016 12:08:32



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

6.1.1.3.1 Test Channel = LCH



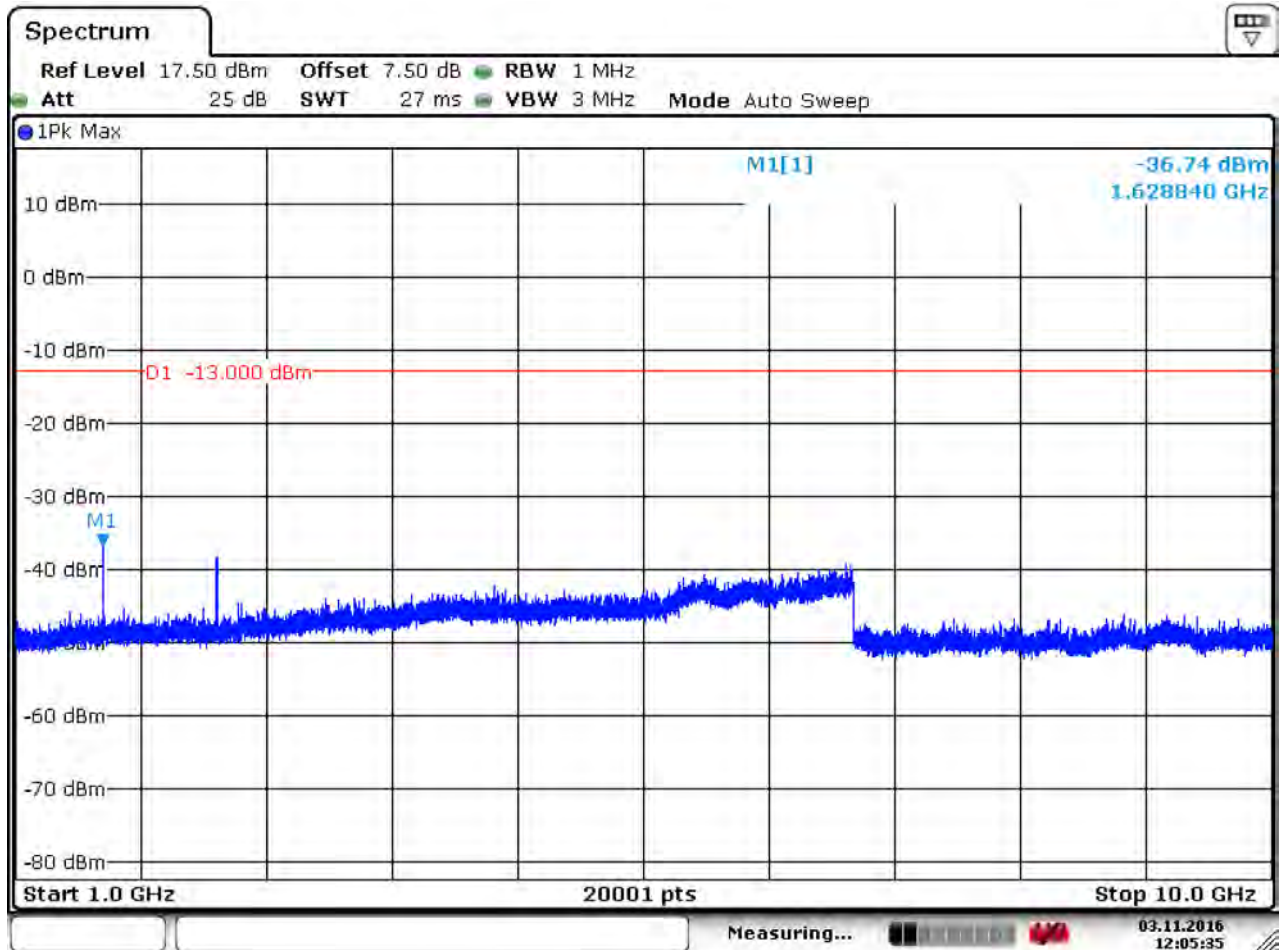
Date: 3.NOV.2016 12:05:02



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Shenzhen Branch

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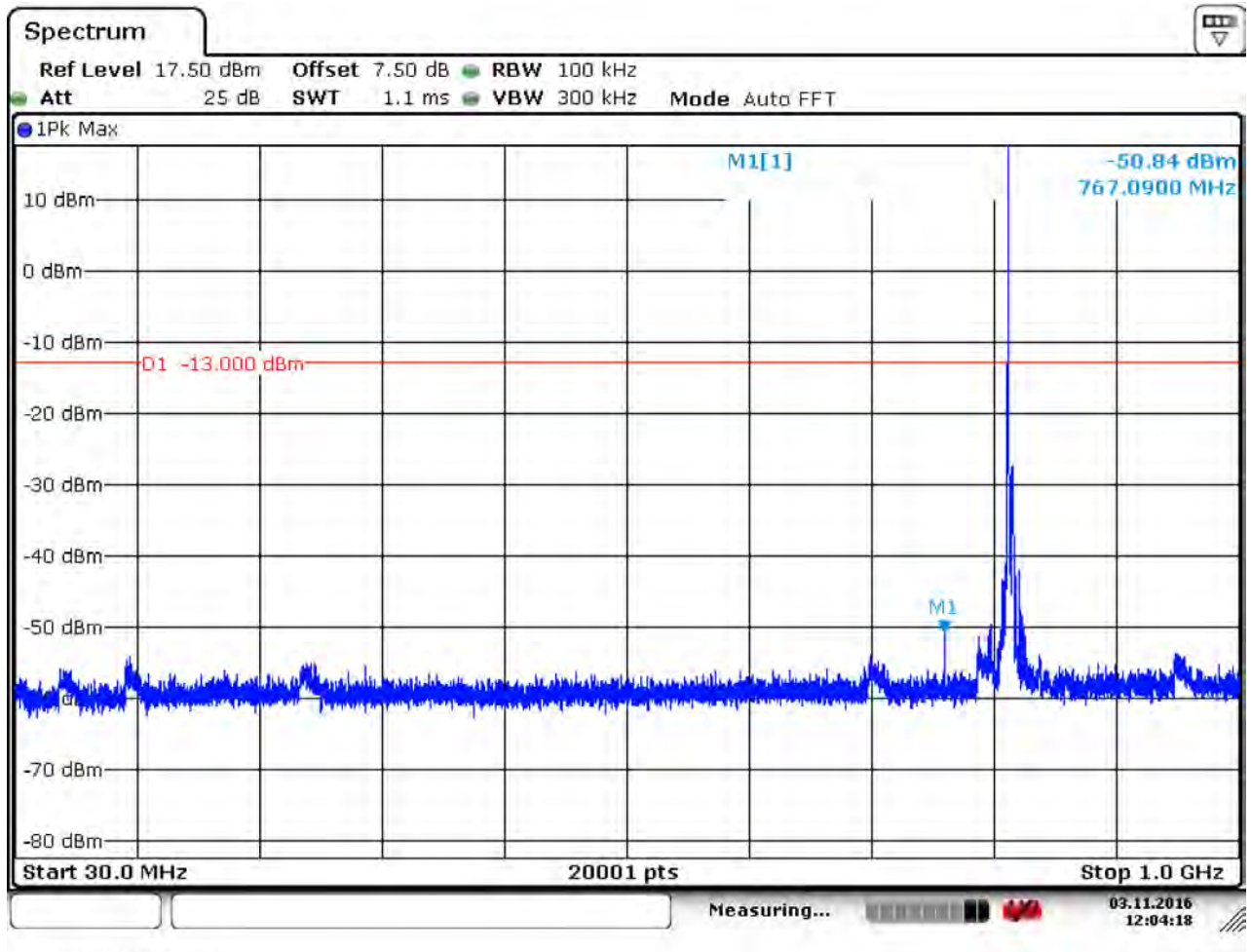


Date: 3.NOV.2016 12:05:36

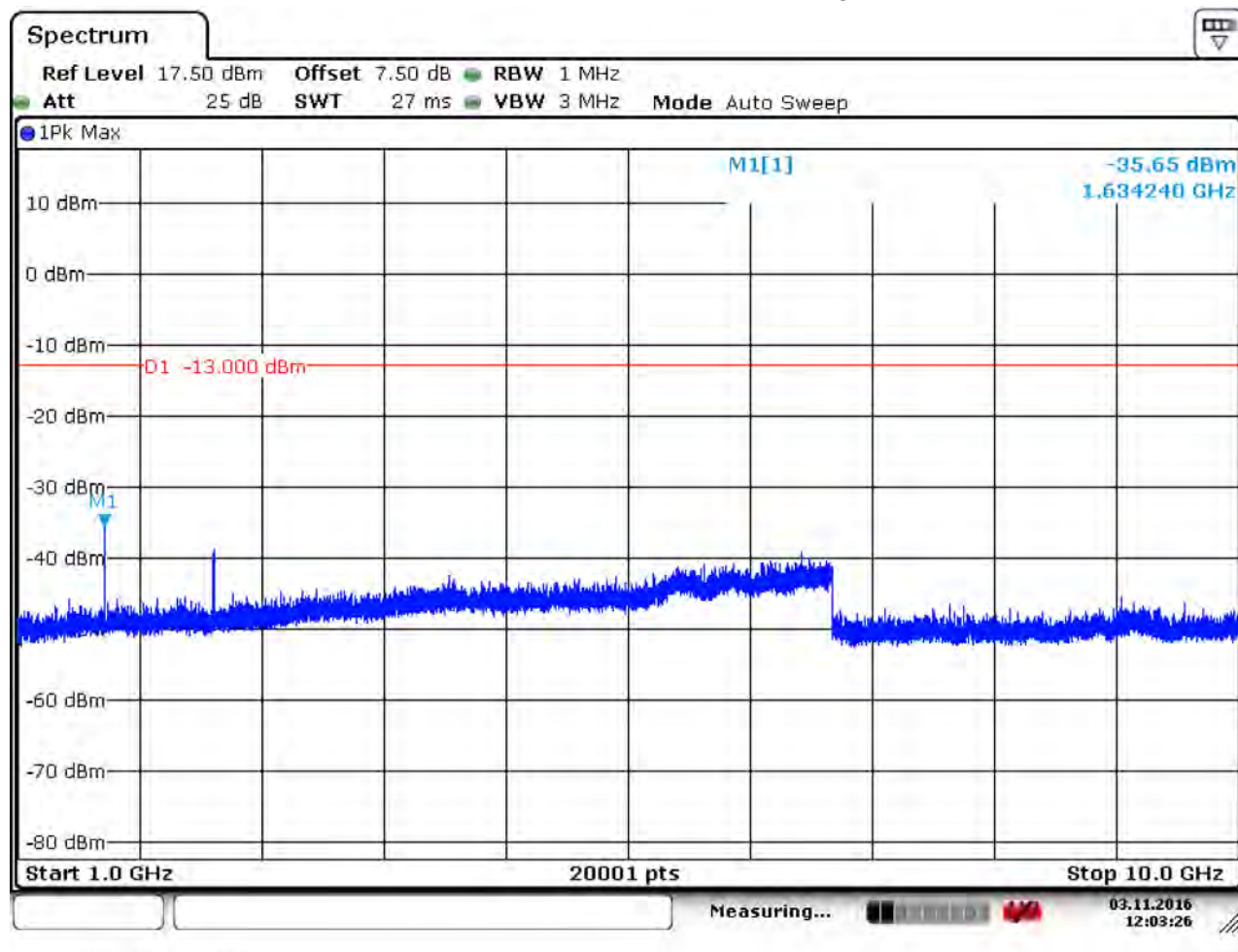
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6.1.1.3.2 Test Channel = MCH



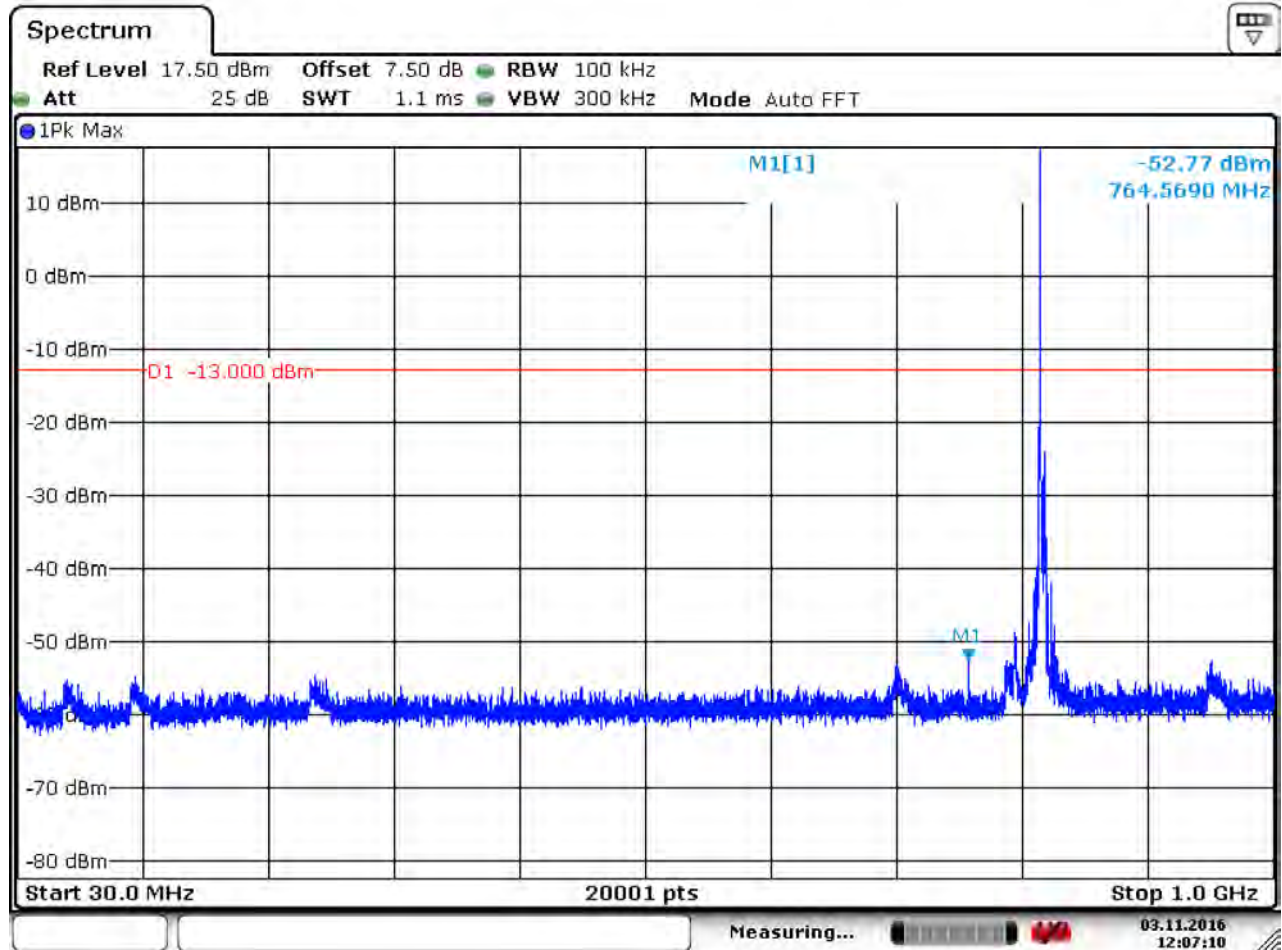
Date: 3.NOV.2016 12:04:18



Date: 3.NOV.2016 12:03:26



6.1.1.3.3 Test Channel = HCH



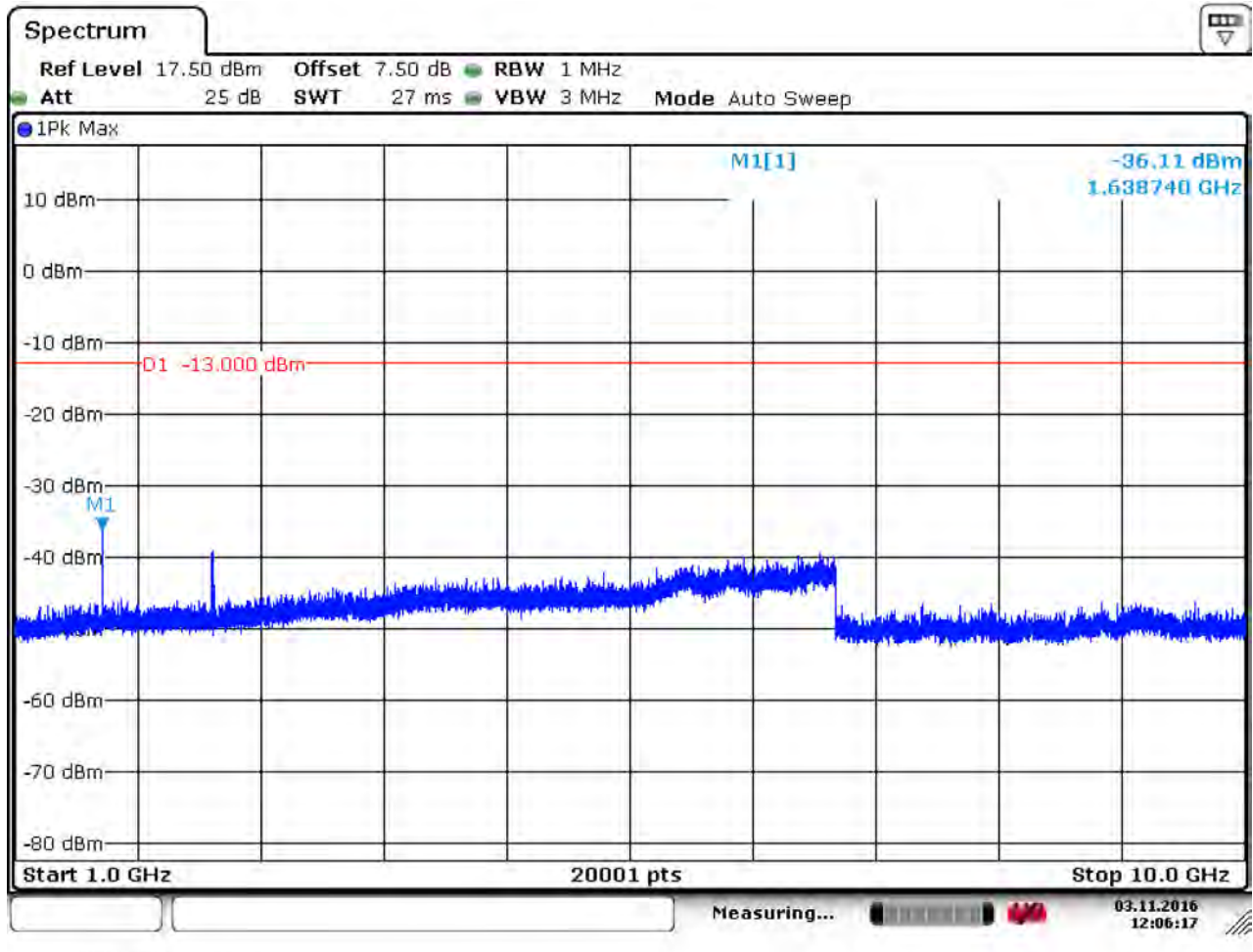
Date: 3 NOV. 2016 12:07:11



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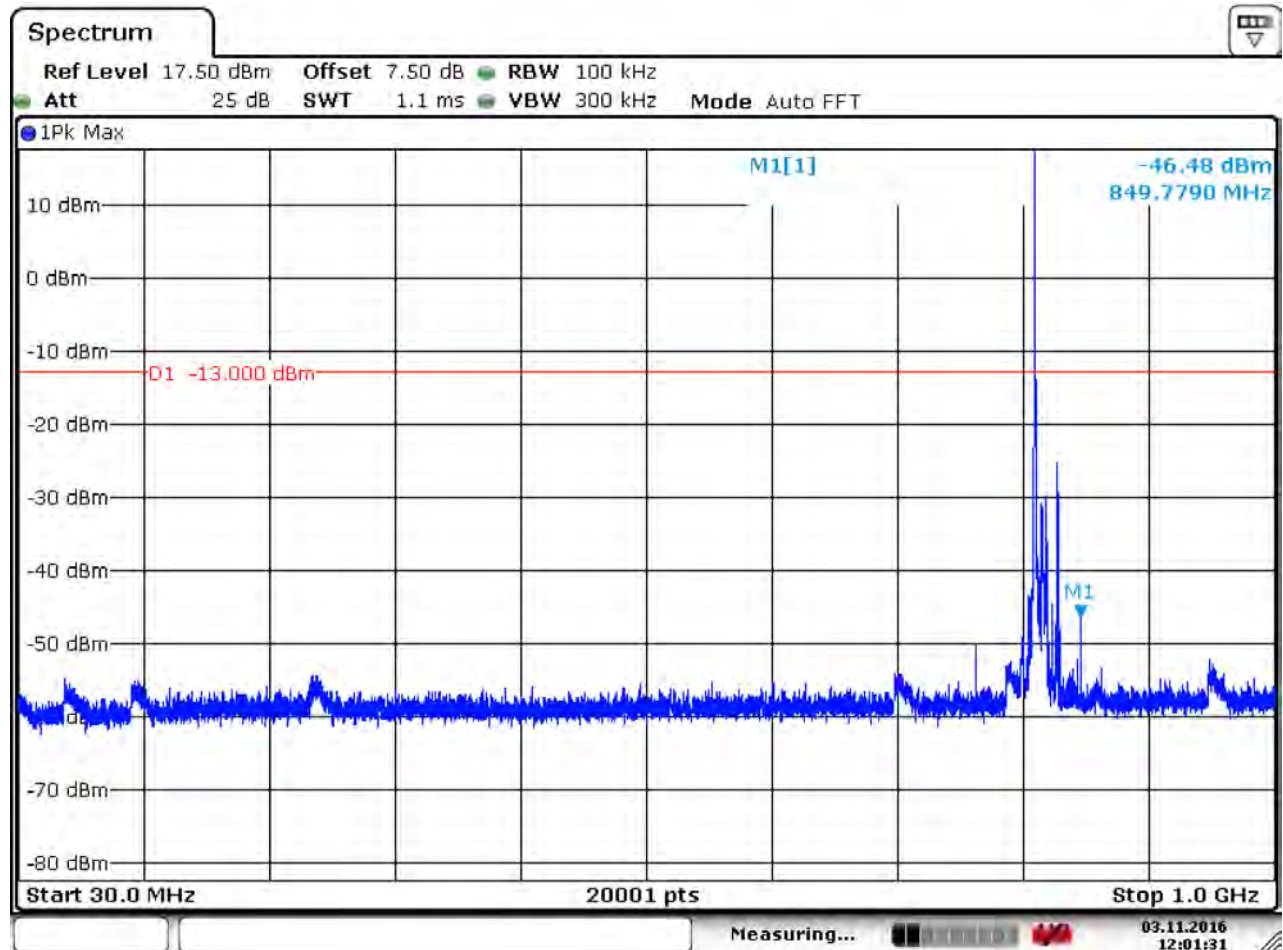
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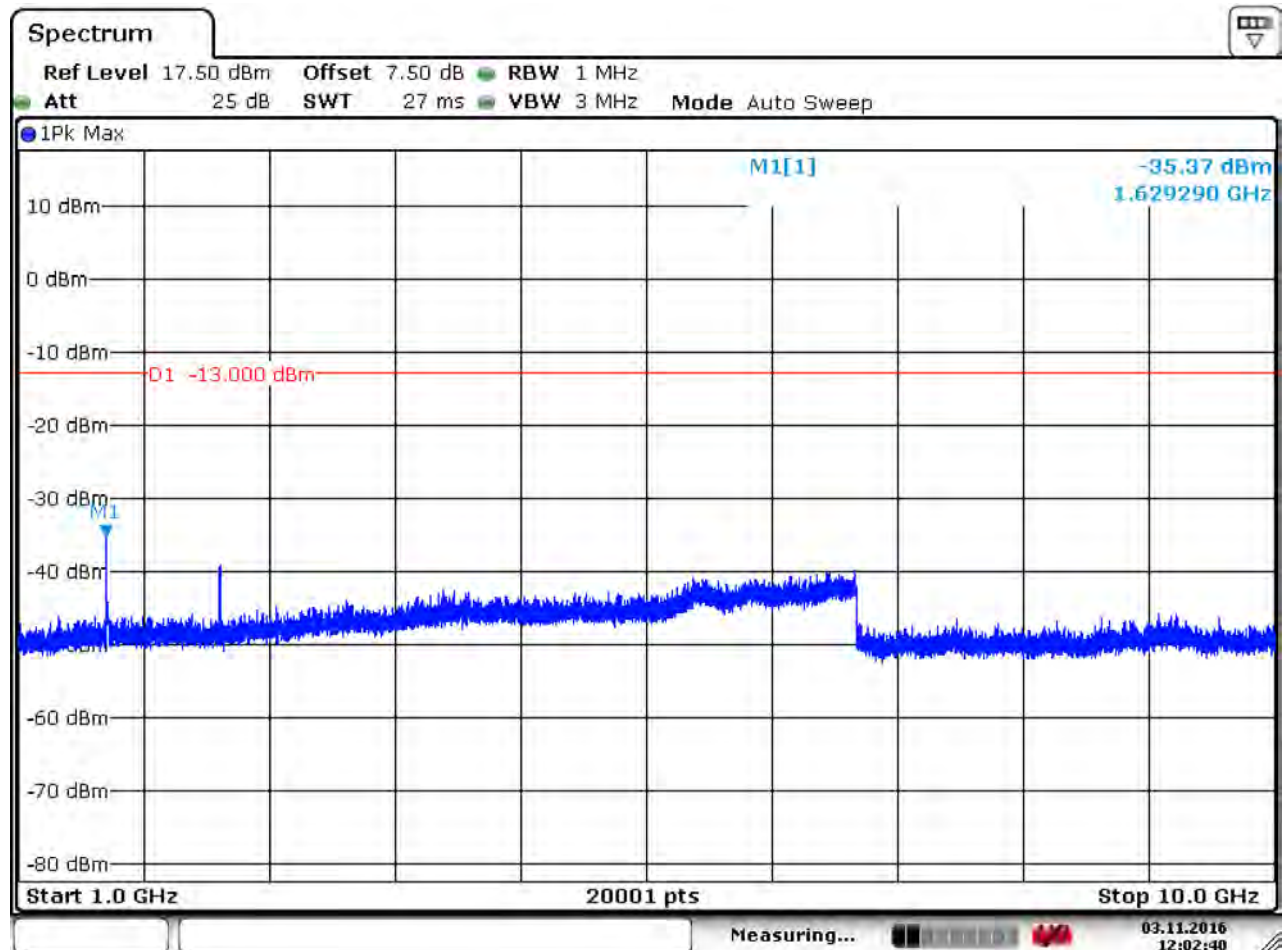
6.1.1.4 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.4.1 Test Channel = MCH



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Date: 3.NOV.2016 12:02:40



7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE 26(814-824)

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

7.1.1.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
130.500	-92.92	-13.00	-79.92	Vertical
247.000	-92.18	-13.00	-79.18	Vertical
361.800	-87.83	-13.00	-74.83	Vertical
543.500	-85.49	-13.00	-72.49	Vertical
791.000	-81.52	-13.00	-68.52	Vertical
1594.000	-66.14	-13.00	-53.14	Vertical
3185.000	-53.35	-13.00	-40.35	Vertical
6042.500	-48.38	-13.00	-35.38	Vertical
7634.500	-47.47	-13.00	-34.47	Vertical
8482.000	-64.23	-13.00	-51.23	Vertical
9763.500	-64.72	-13.00	-51.72	Vertical
11872.500	-63.22	-13.00	-50.22	Vertical

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
80.500	-93.35	-13.00	-80.35	Horizontal
126.600	-90.34	-13.00	-77.34	Horizontal
265.200	-89.22	-13.00	-76.22	Horizontal
473.000	-86.98	-13.00	-73.98	Horizontal
791.500	-81.98	-13.00	-68.98	Horizontal
12120.500	-66.95	-13.00	-53.95	Horizontal
2187.000	-45.01	-13.00	-32.01	Horizontal
3684.500	-50.19	-13.00	-37.19	Horizontal
5217.500	-50.74	-13.00	-37.74	Horizontal
7292.500	-62.93	-13.00	-49.93	Horizontal
9243.000	-64.14	-13.00	-51.14	Horizontal
11189.000	-64.23	-13.00	-51.23	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
LTE band26 (814-824)	LTE/TM1 10MHz	MCH	TN	VL	-3.67	-0.00448	PASS
				VN	-2.34	-0.00286	PASS
				VH	-7.76	-0.00947	PASS
	LTE/TM2 10MHz	MCH	TN	VL	-3.10	-0.00379	PASS
				VN	-2.43	-0.00297	PASS
				VH	-9.13	-0.01115	PASS
	LTE/TM3 10MHz	MCH	TN	VL	-5.00	-0.00611	PASS
				VN	-3.12	-0.00381	PASS
				VH	-7.36	-0.00899	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 (814-824)	LTE/TM1 10MHz	MCH	VN	-30	-4.31	-0.00526	PASS
				-20	-3.61	-0.00441	PASS
				-10	-7.91	-0.00966	PASS
				0	-3.36	-0.00410	PASS
				10	-5.21	-0.00636	PASS
				20	-3.14	-0.00383	PASS
				30	-2.39	-0.00292	PASS
				40	-2.95	-0.00360	PASS
				50	-5.22	-0.00637	PASS
	LTE/TM210MHz	MCH	VN	-30	-5.36	-0.00654	PASS
				-20	2.31	0.00282	PASS
				-10	-4.76	-0.00581	PASS
				0	-1.70	-0.00208	PASS
				10	-3.13	-0.00382	PASS
				20	-0.37	-0.00045	PASS
				30	-0.21	-0.00026	PASS
				40	-4.60	-0.00562	PASS
				50	-3.56	-0.00435	PASS
	LTE/TM3 10MHz	MCH	VN	-30	-7.18	-0.00877	PASS
				-20	-5.07	-0.00619	PASS
				-10	-6.37	-0.00778	PASS
				0	-3.67	-0.00448	PASS
				10	-7.83	-0.00956	PASS
				20	-2.03	-0.00248	PASS
				30	-7.15	-0.00873	PASS
				40	-4.14	-0.00505	PASS
				50	-3.39	-0.00414	PASS

The End