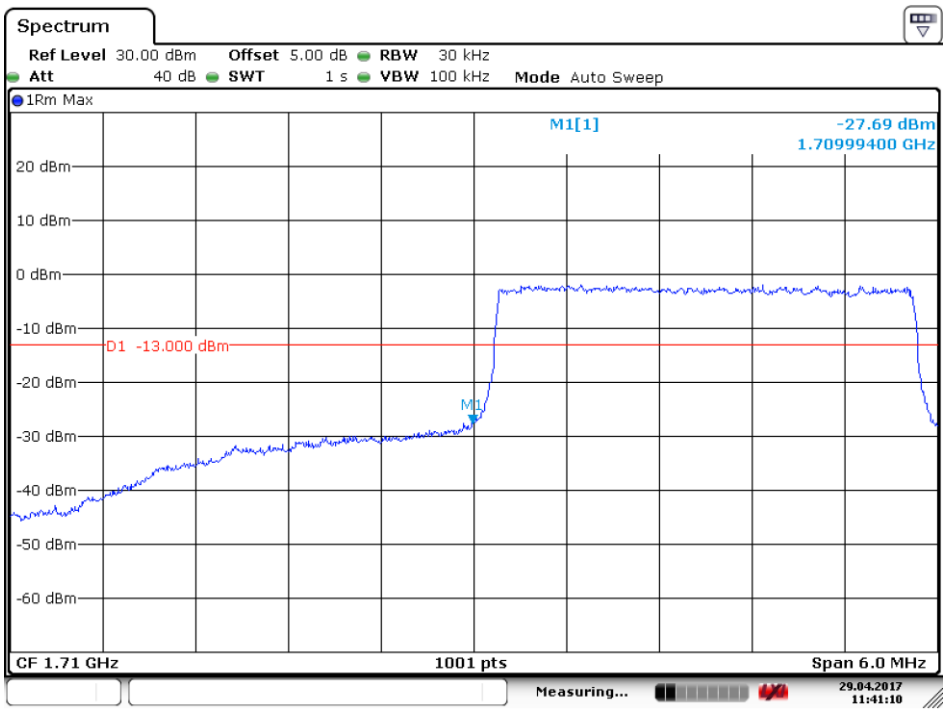
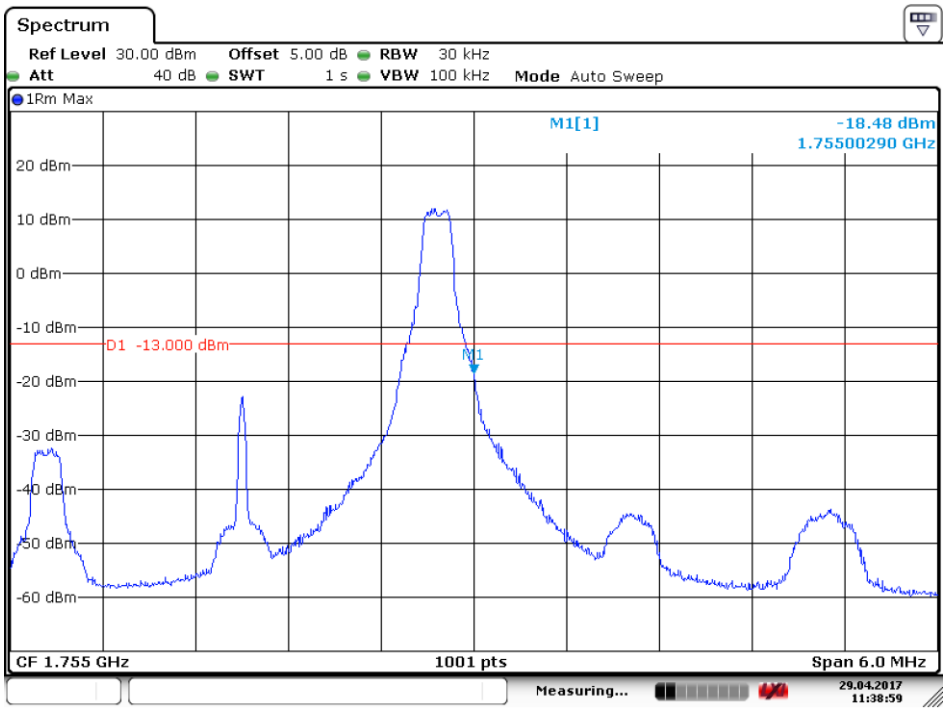
5.1.1.4.1.2 Test RB=15RB



Date: 29.APR.2017 11:41:10

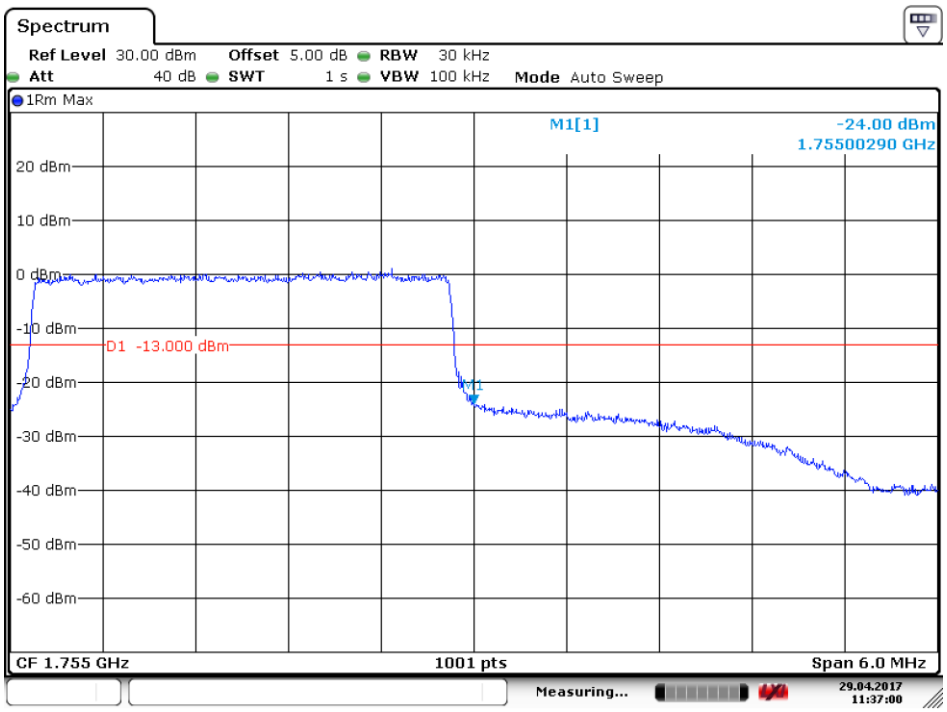
5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 29.APR.2017 11:39:00

5.1.1.4.3 Test RB=15RB

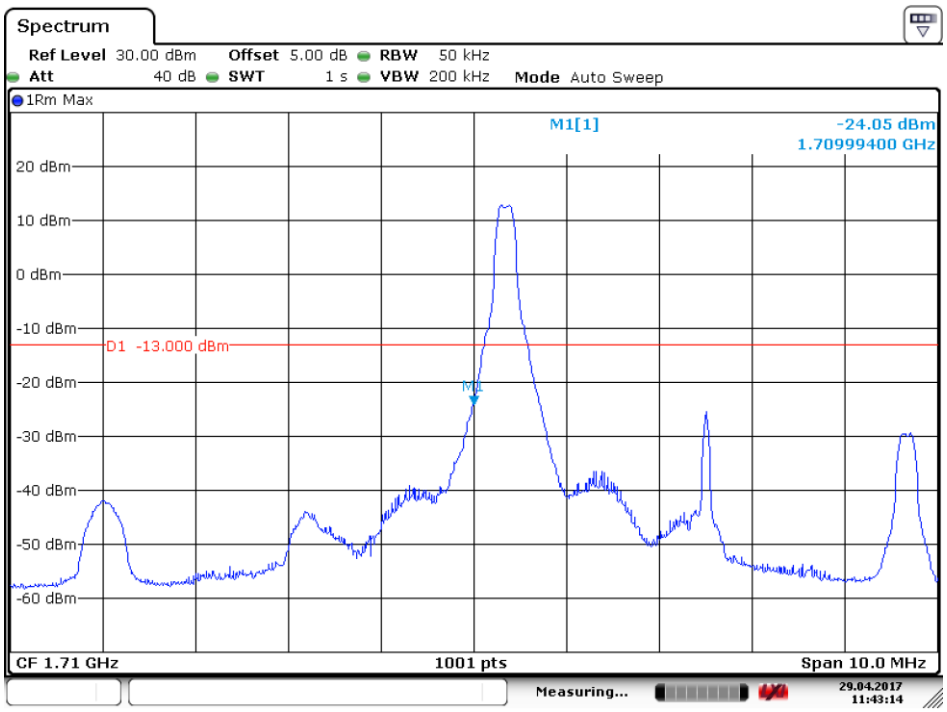


Date: 29.APR.2017 11:37:00

5.1.1.5 Test Mode = LTE/TM1 5MHz

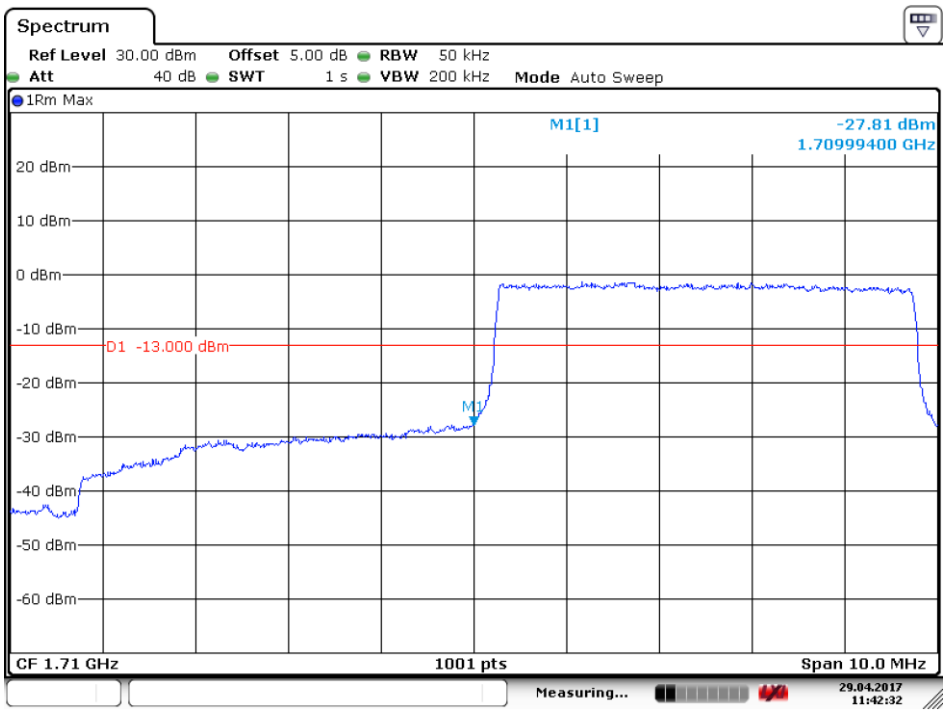
5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



Date: 29.APR.2017 11:43:14

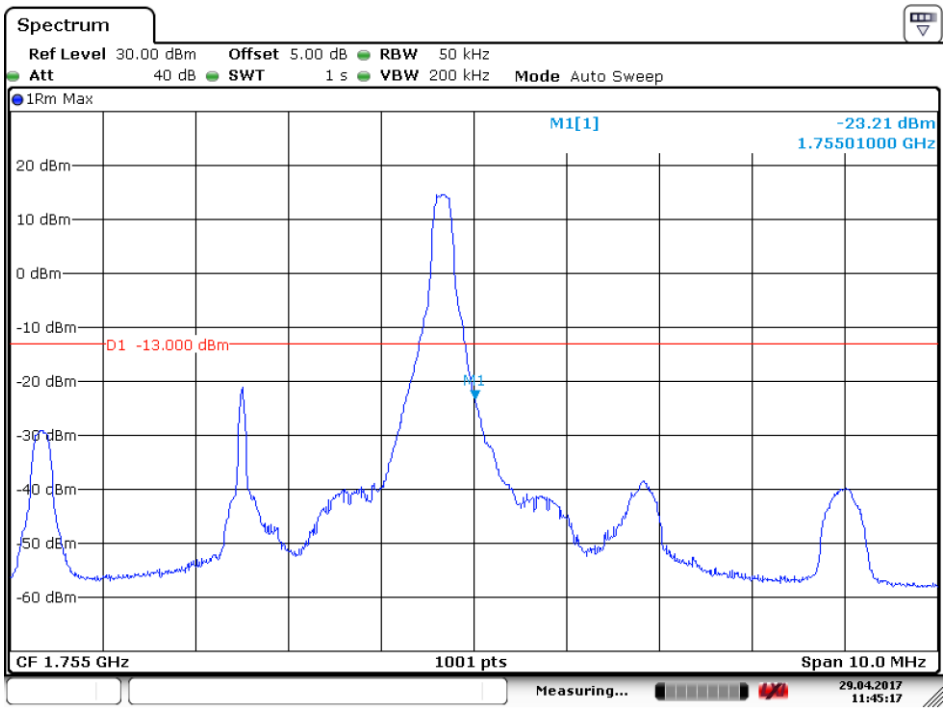
5.1.1.5.1.2 Test RB=25RB



Date: 29.APR.2017 11:42:32

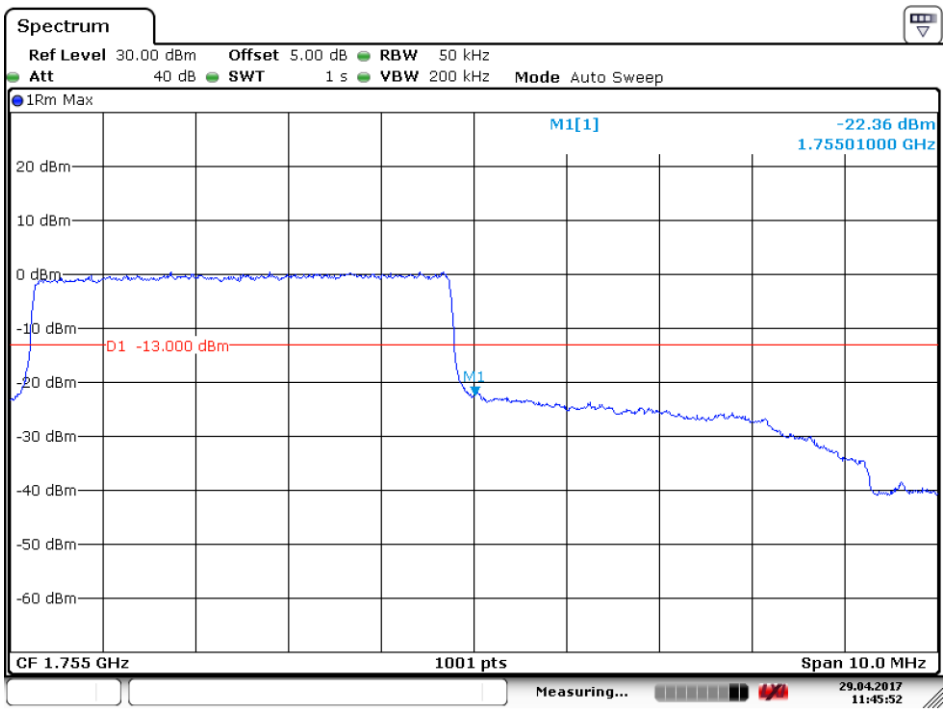
5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



Date: 29.APR.2017 11:45:18

5.1.1.5.2.2 Test RB=25RB

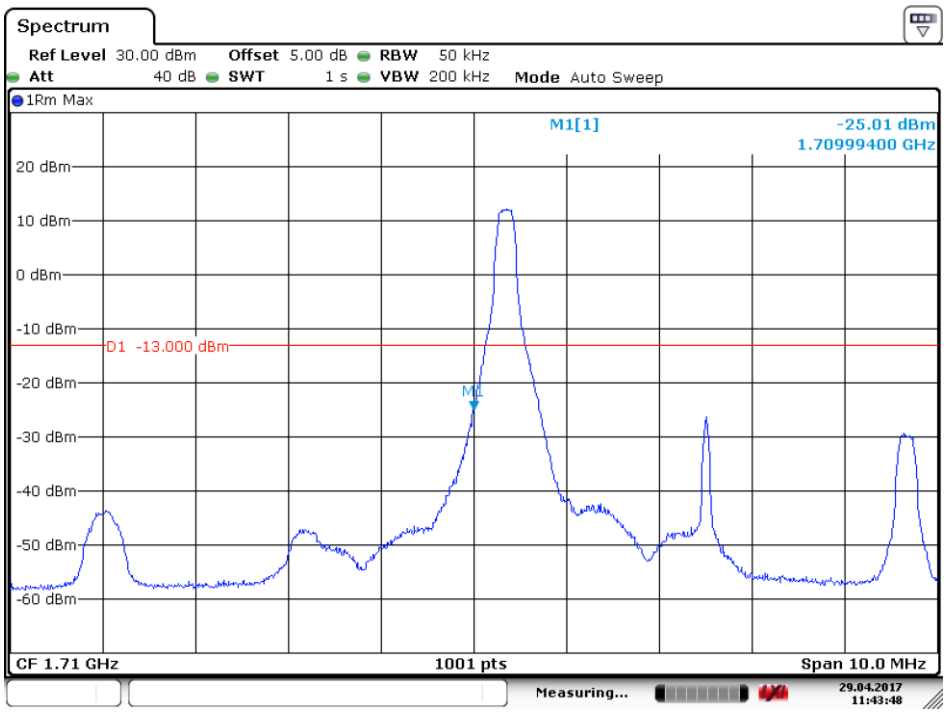


Date: 29.APR.2017 11:45:52

5.1.1.6 Test Mode = LTE/TM2 5MHz

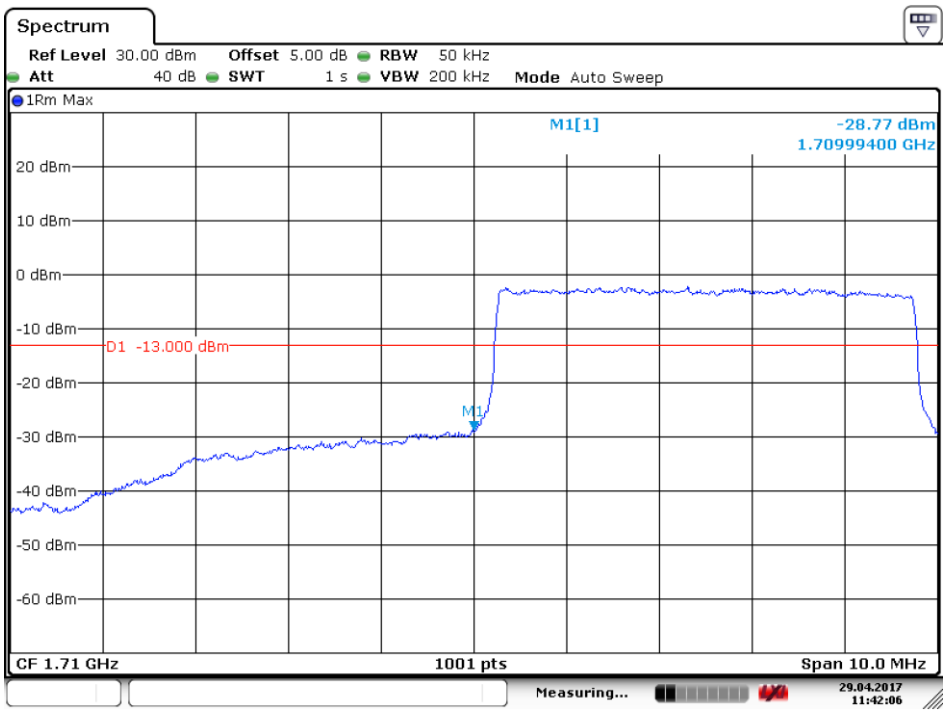
5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 29.APR.2017 11:43:49

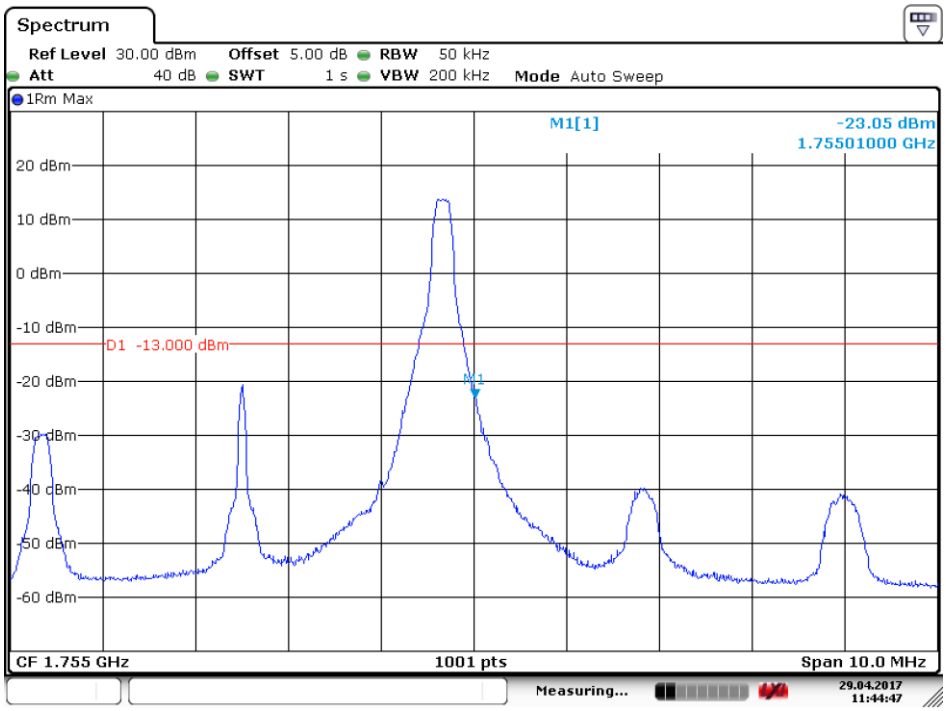
5.1.1.6.1.2 Test RB=25RB



Date: 29.APR.2017 11:42:06

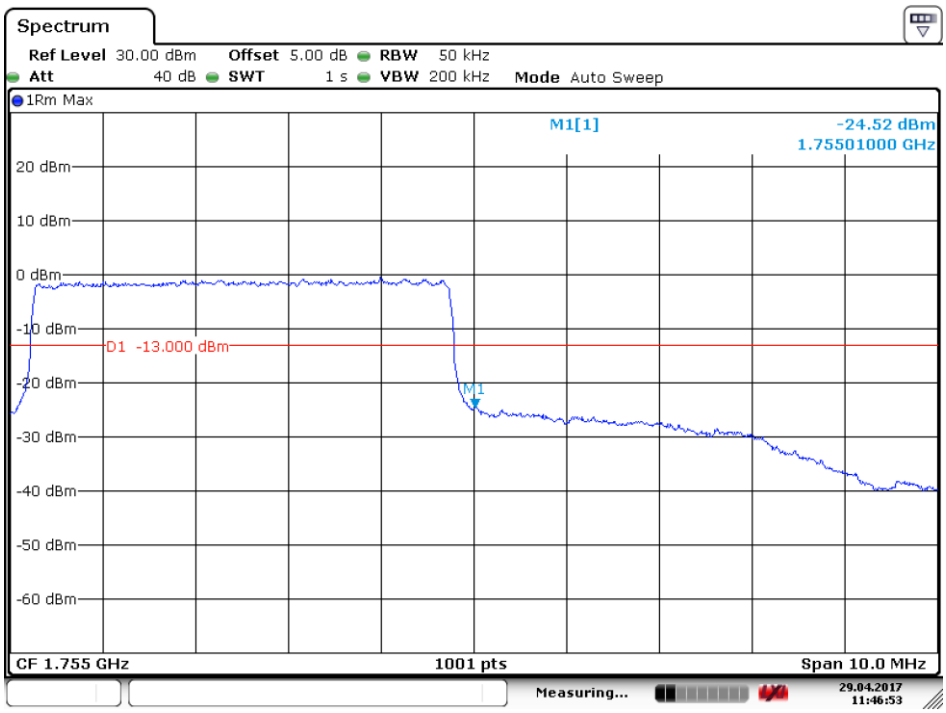
5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



Date: 29.APR.2017 11:44:47

5.1.1.6.2.2 Test RB=25RB

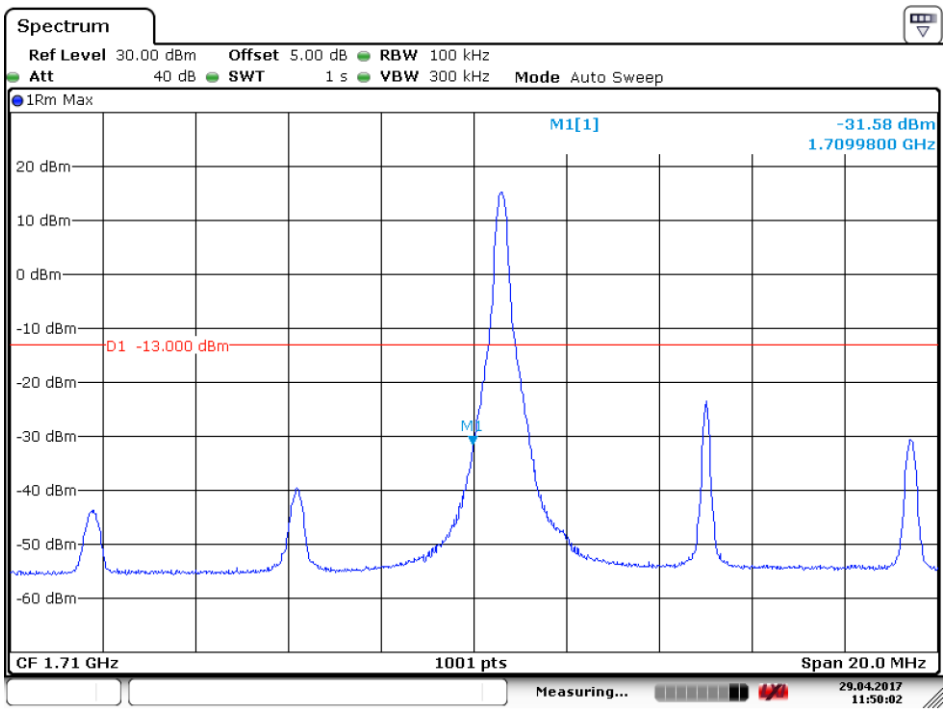


Date: 29.APR.2017 11:46:53

5.1.1.7 Test Mode = LTE/TM1 10MHz

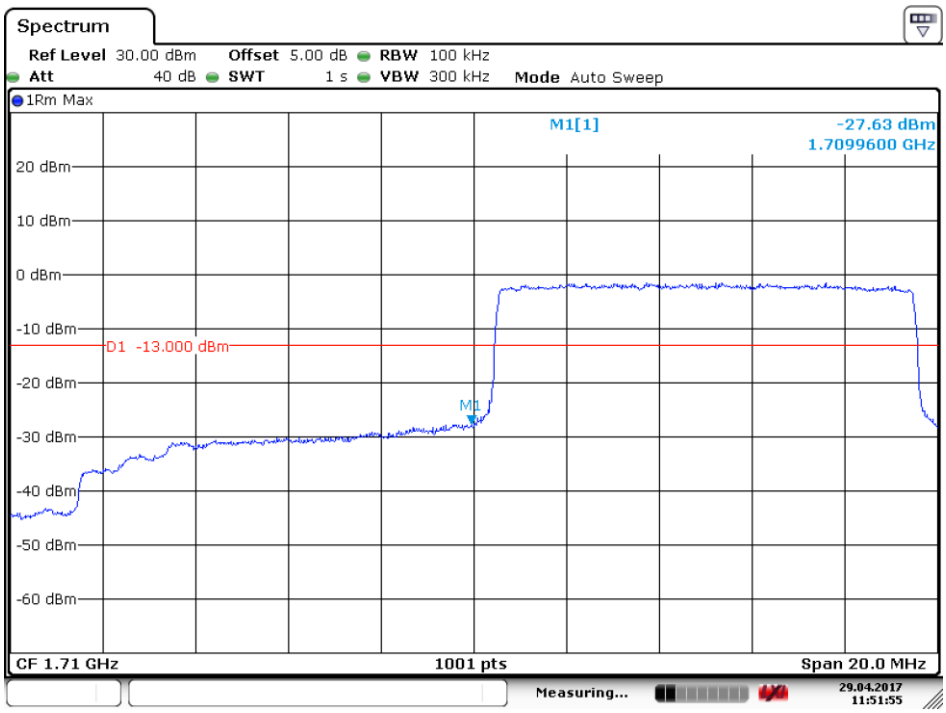
5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 29.APR.2017 11:50:03

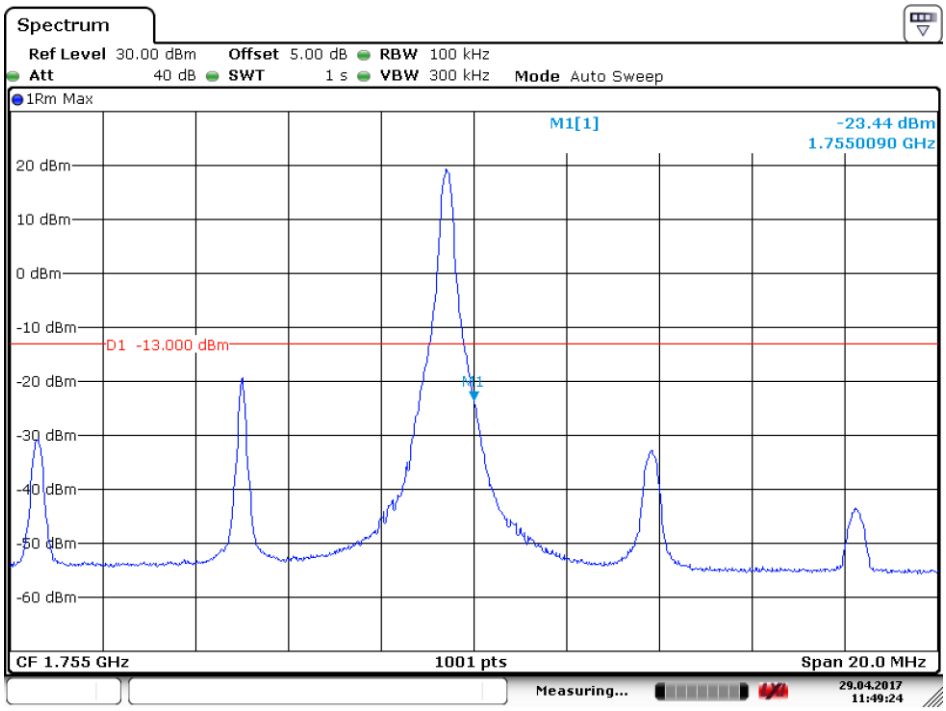
5.1.1.7.1.2 Test RB=50RB



Date: 29.APR.2017 11:51:55

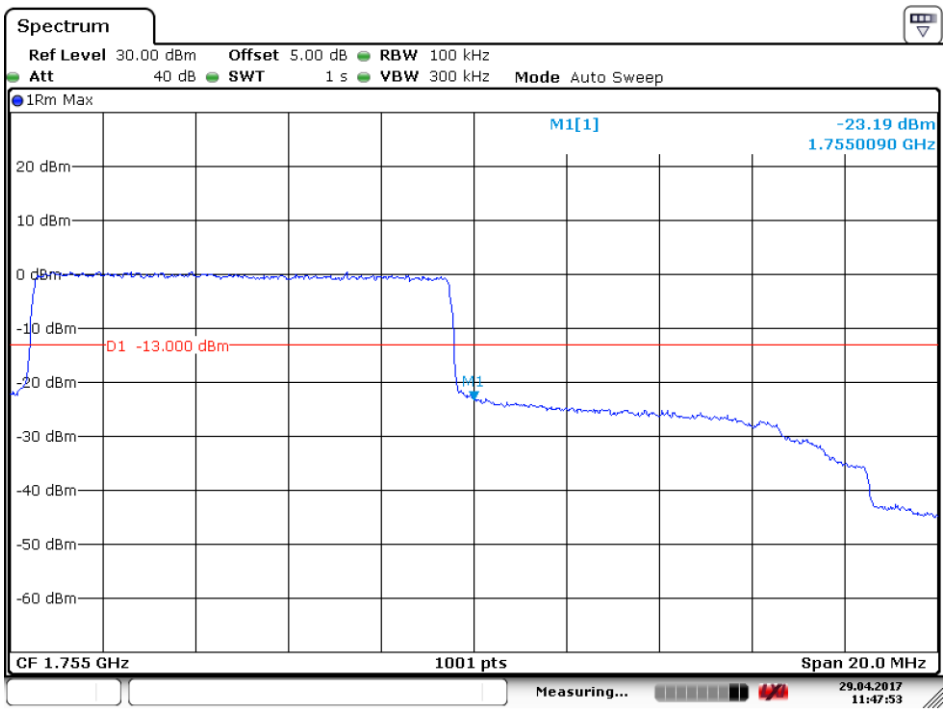
5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 29.APR.2017 11:49:24

5.1.1.7.2.2 Test RB=50RB

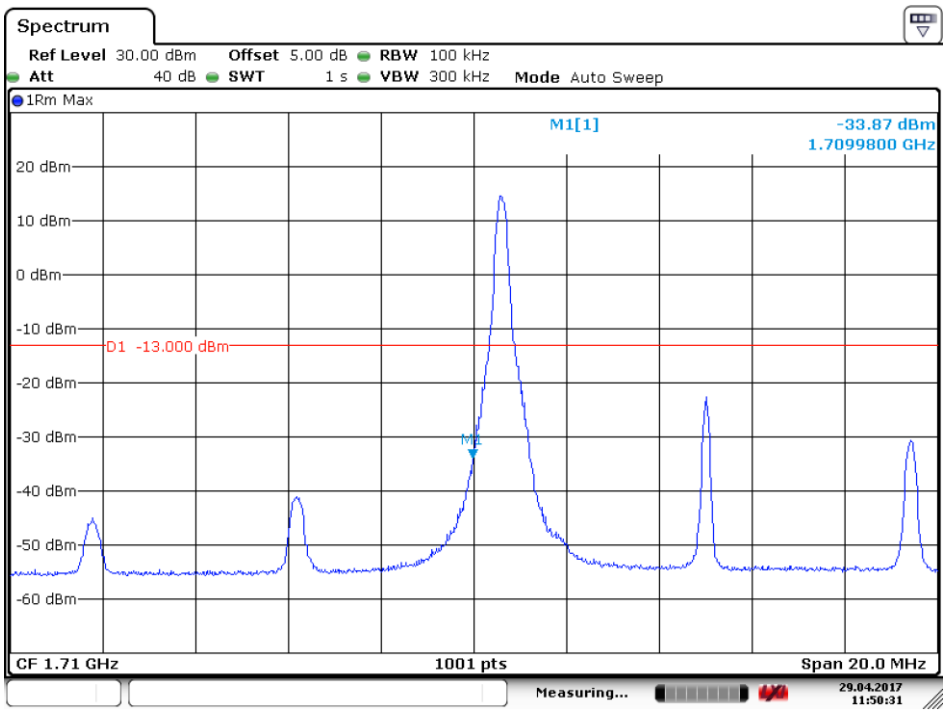


Date: 29.APR.2017 11:47:53

5.1.1.8 Test Mode = LTE/TM2 10MHz

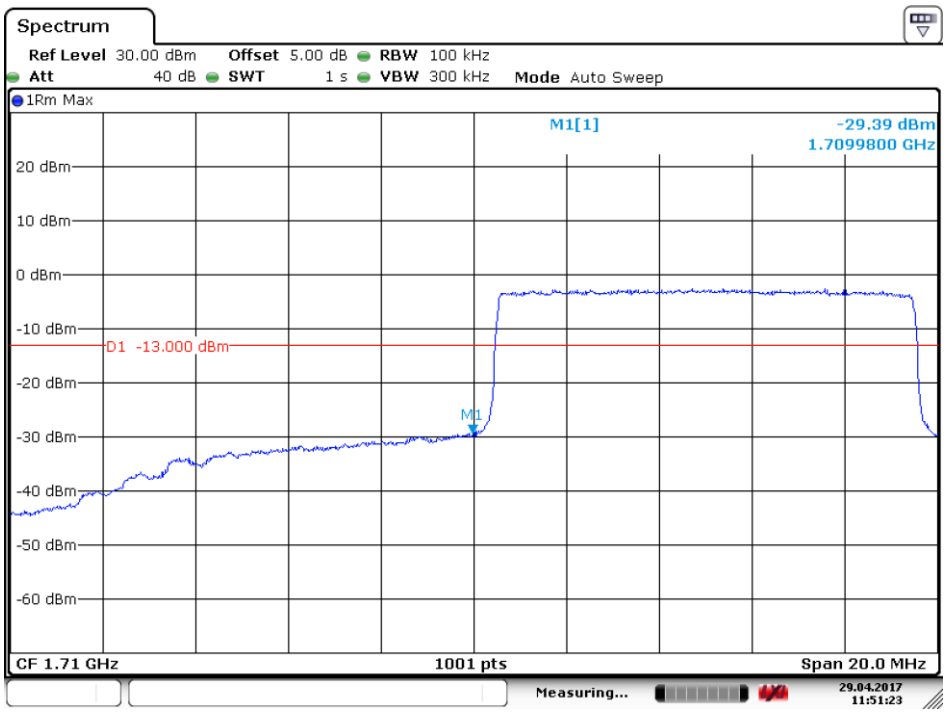
5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



Date: 29.APR.2017 11:50:31

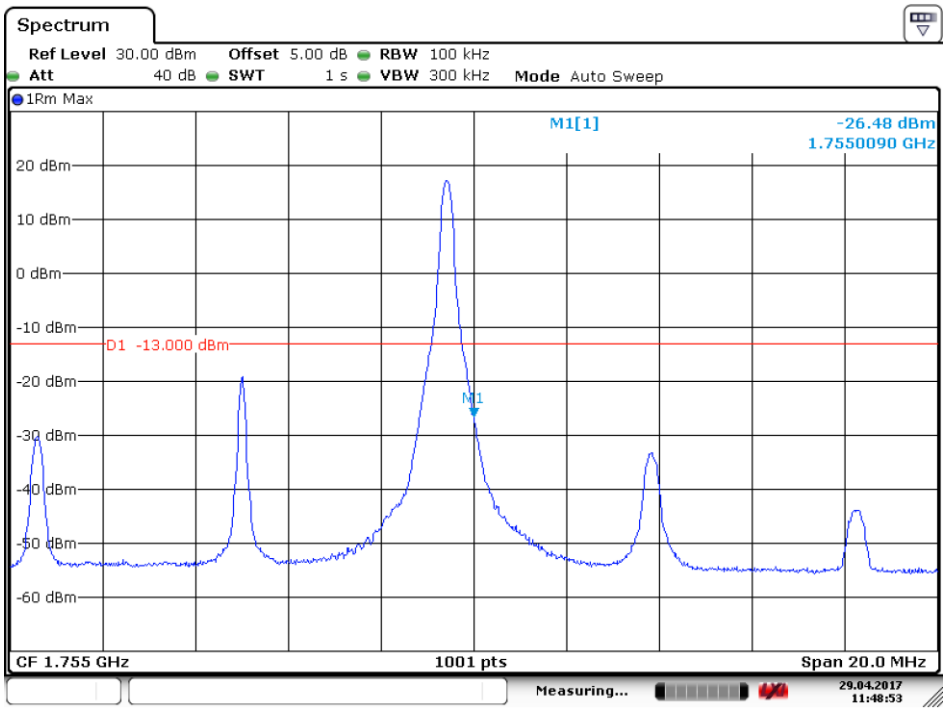
5.1.1.8.1.2 Test RB=50RB



Date: 29.APR.2017 11:51:24

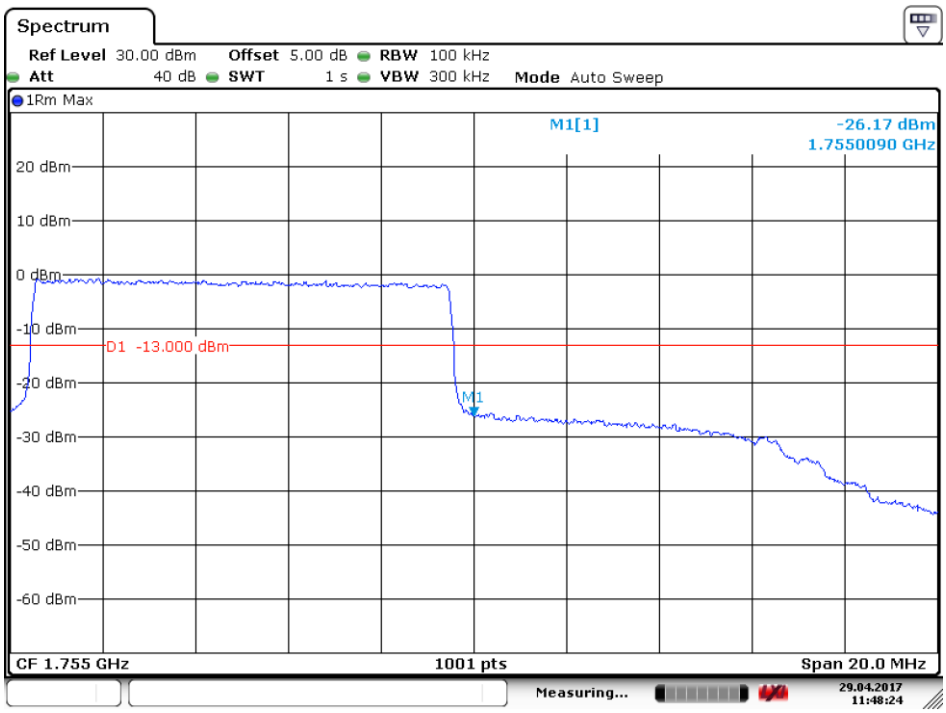
5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 29.APR.2017 11:48:54

5.1.1.8.2.2 Test RB=50RB

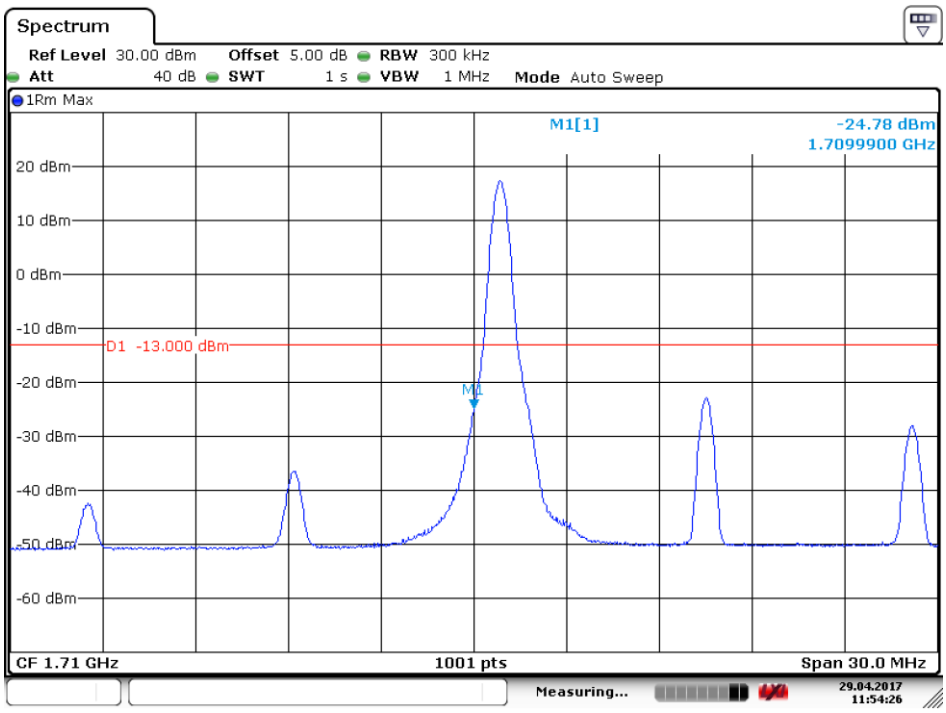


Date: 29.APR.2017 11:48:24

5.1.1.9 Test Mode = LTE/TM1 15MHz

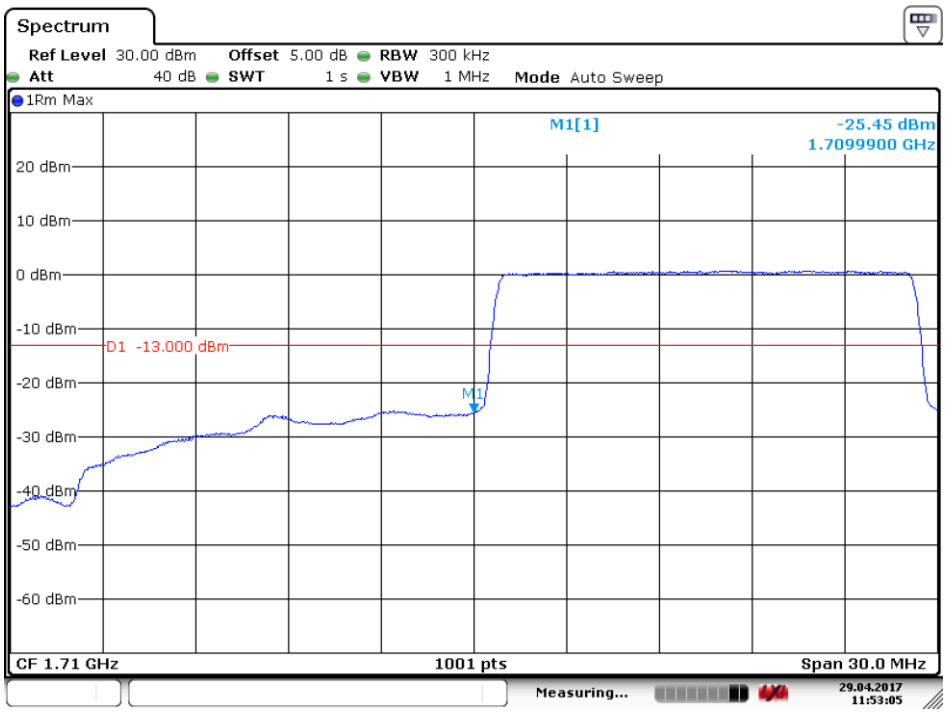
5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 29.APR.2017 11:54:26

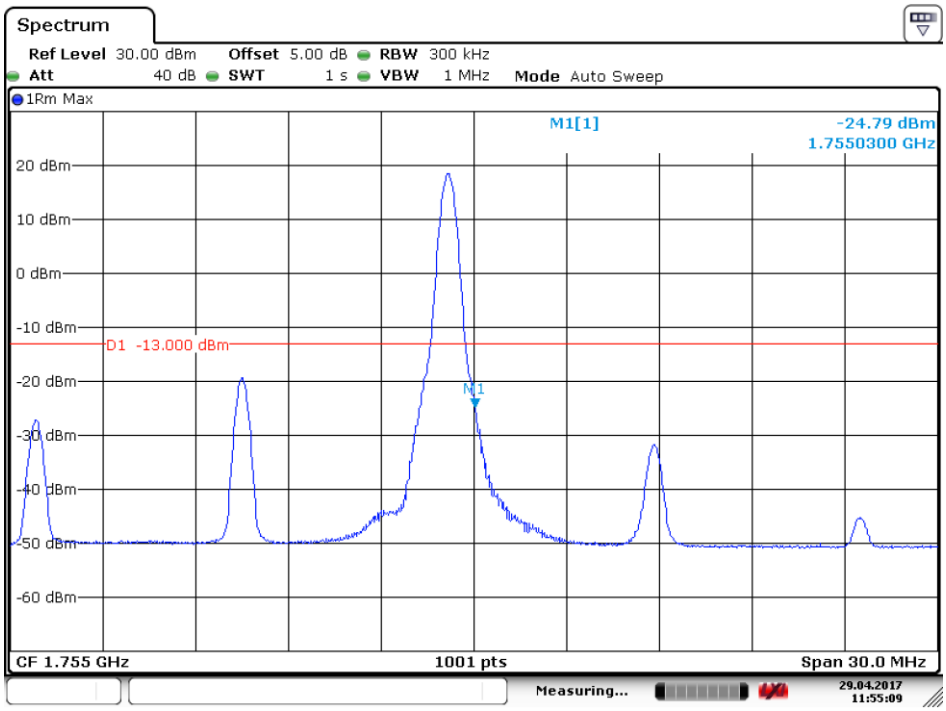
5.1.1.9.1.2 Test RB=75RB



Date: 29.APR.2017 11:53:05

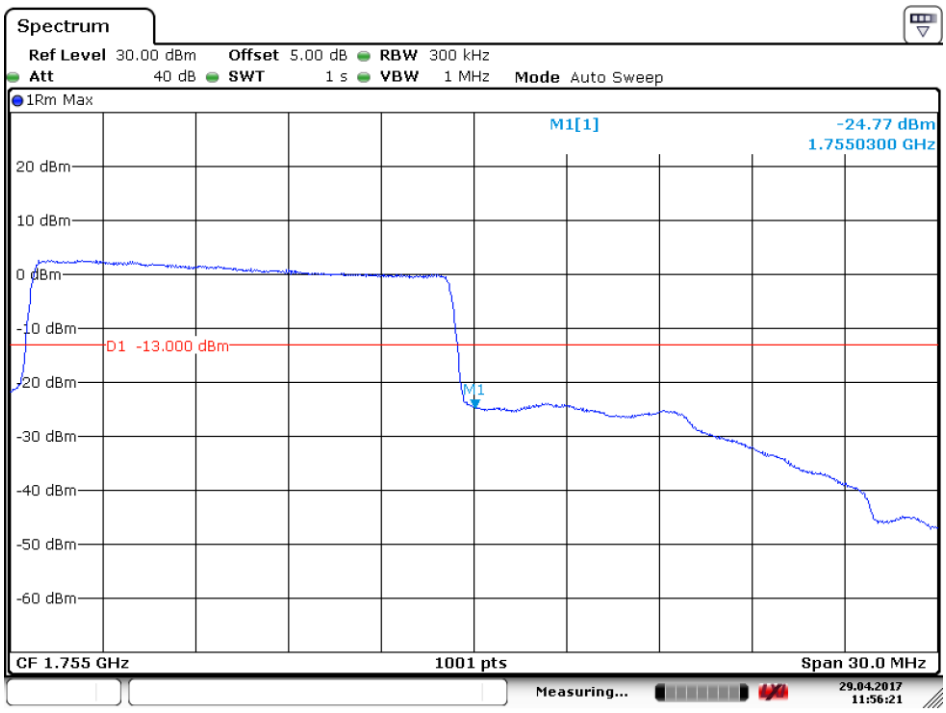
5.1.1.9.2 Test Channel = HCH

5.1.1.9.2.1 Test RB=1RB



Date: 29.APR.2017 11:55:10

5.1.1.9.2.2 Test RB=75RB

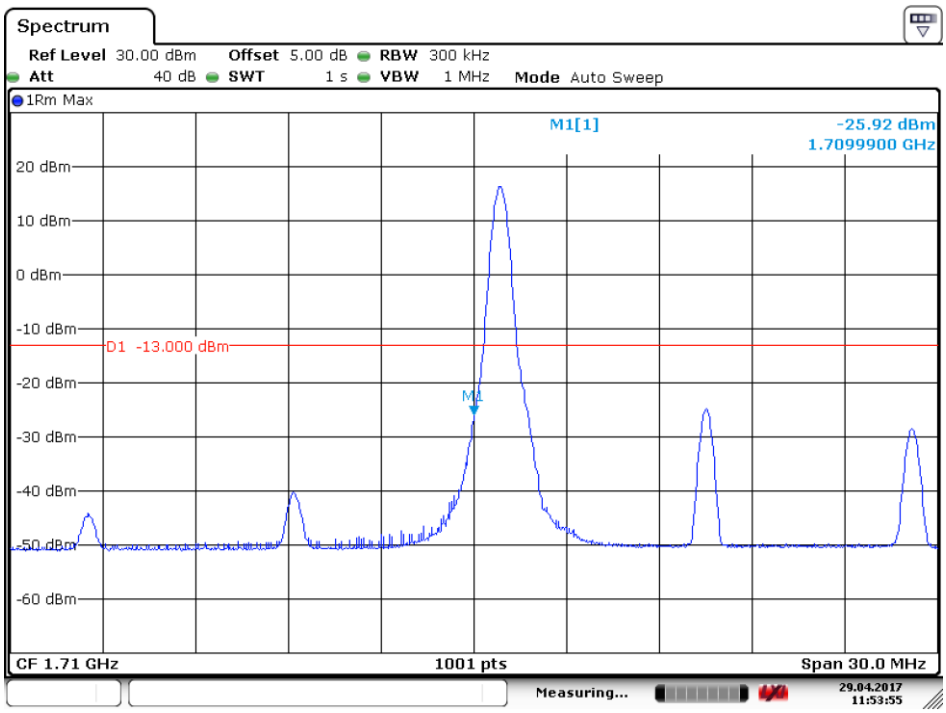


Date: 29.APR.2017 11:56:22

5.1.1.10 Test Mode = LTE/TM2 15MHz

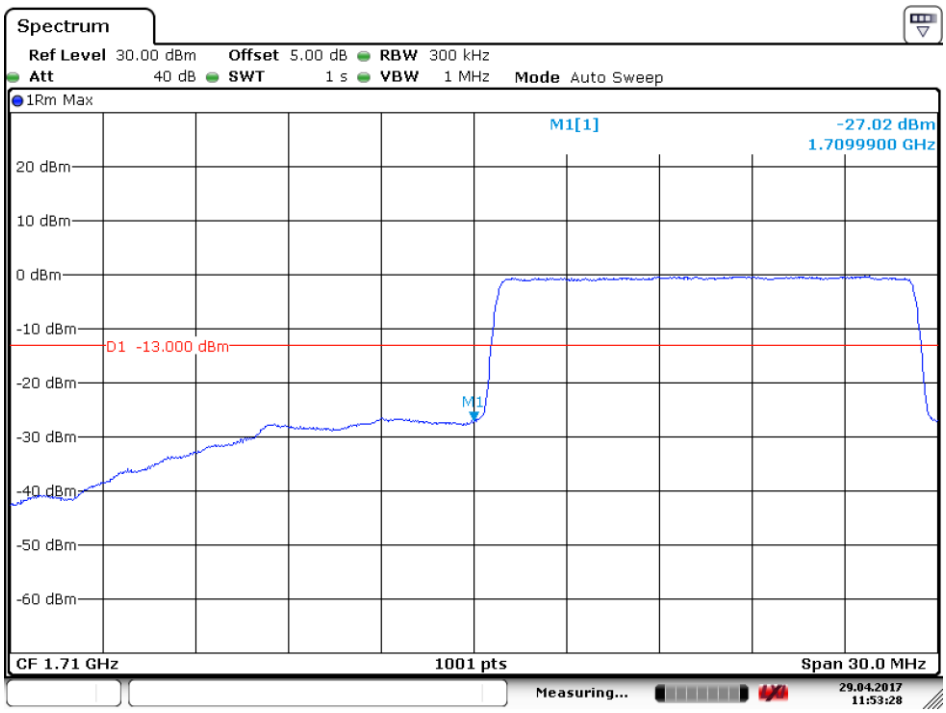
5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



Date: 29.APR.2017 11:53:55

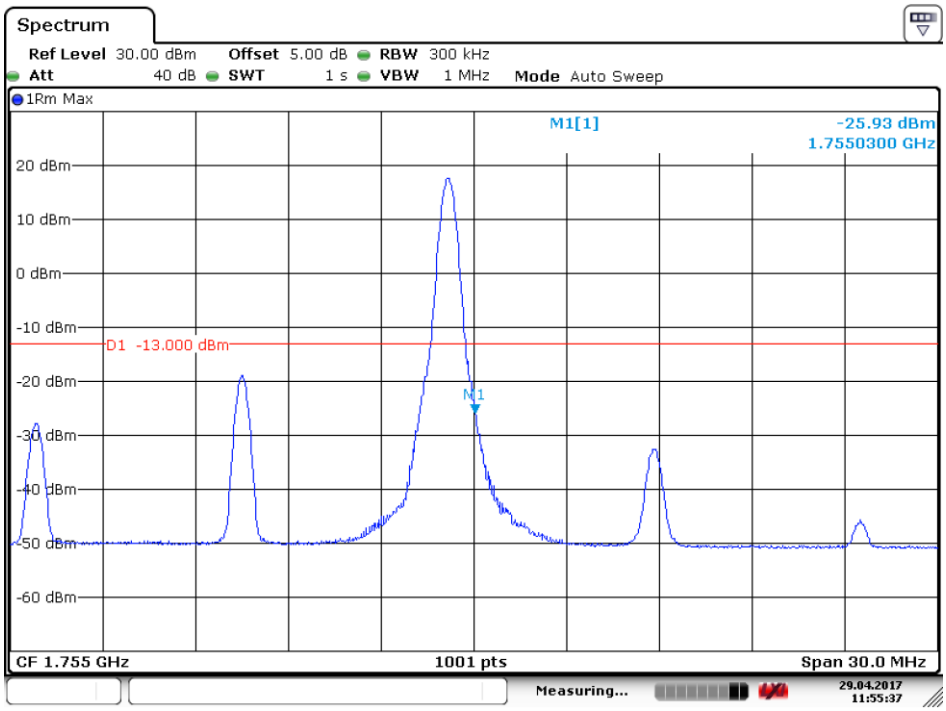
5.1.1.10.1.2 Test RB=75RB



Date: 29.APR.2017 11:53:28

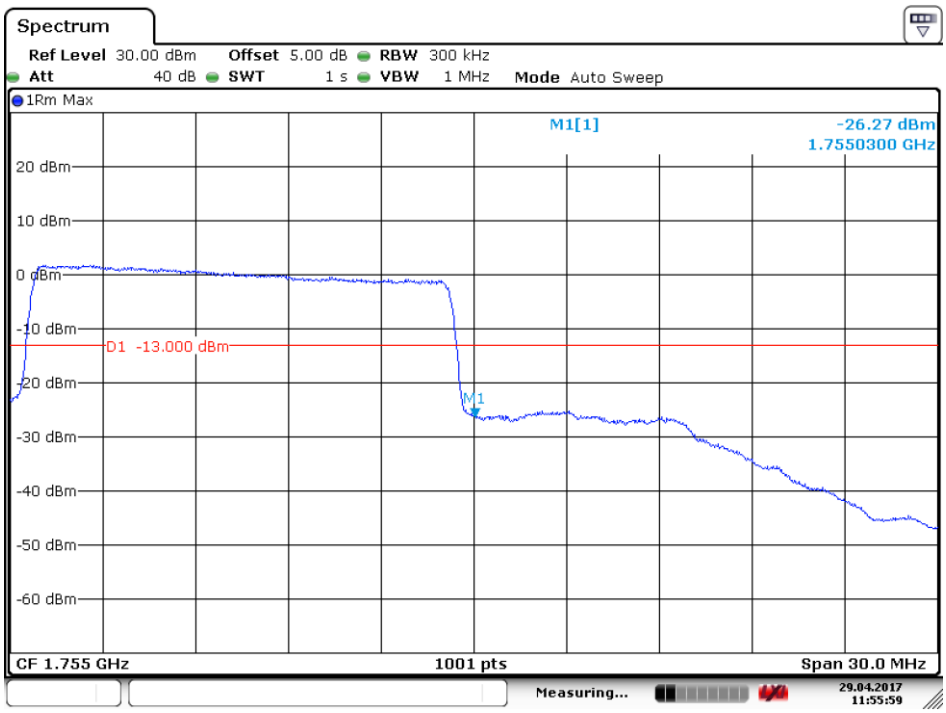
5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 29.APR.2017 11:55:38

5.1.1.10.2.2 Test RB=75RB

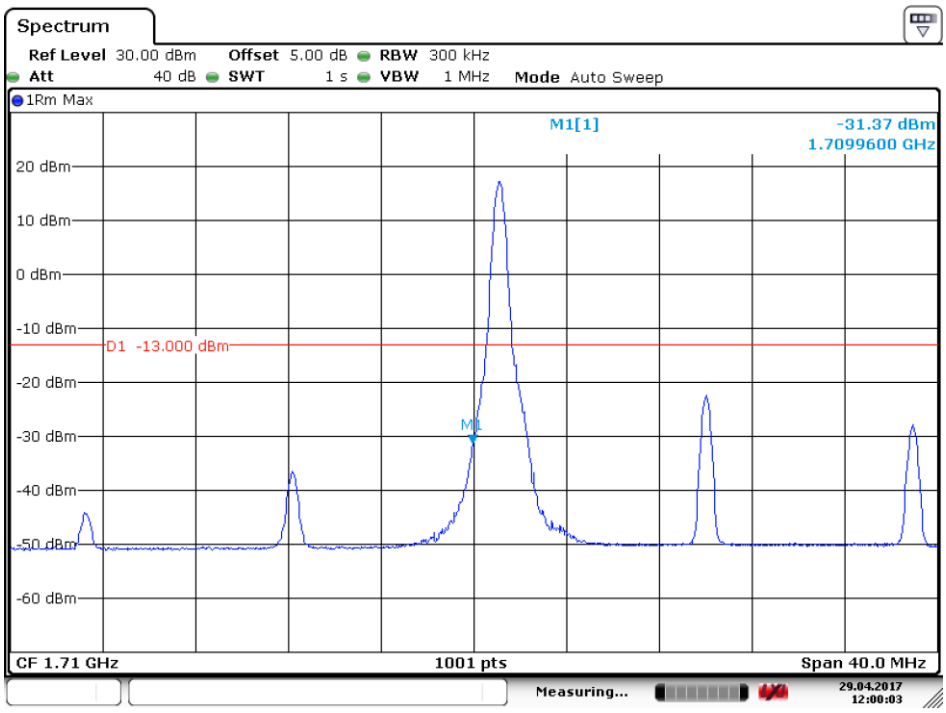


Date: 29.APR.2017 11:55:59

5.1.1.11 Test Mode = LTE/TM1 20MHz

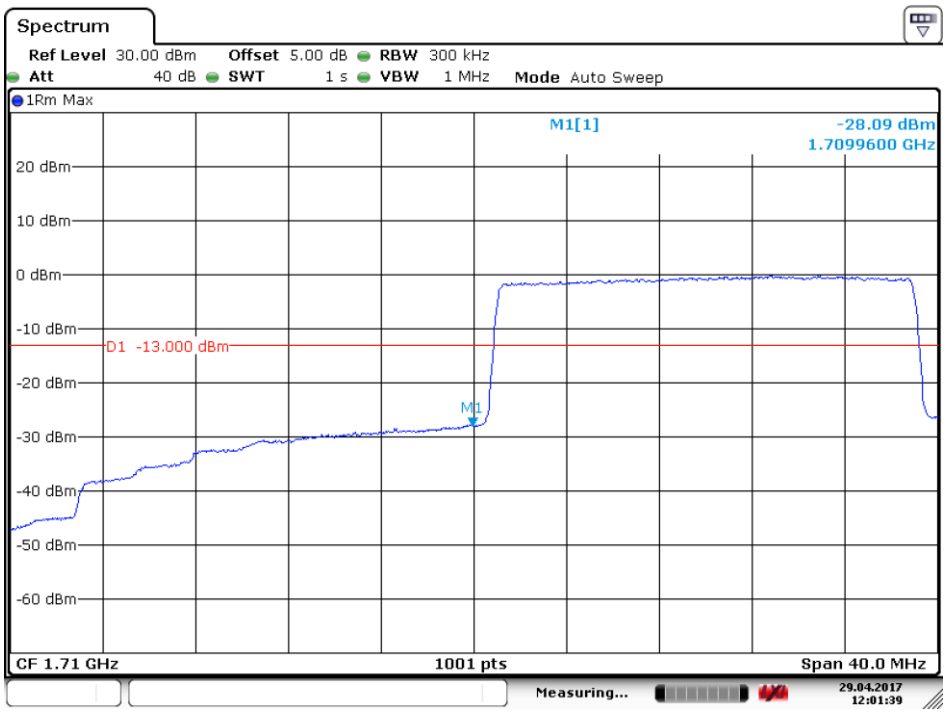
5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



Date: 29.APR.2017 12:00:03

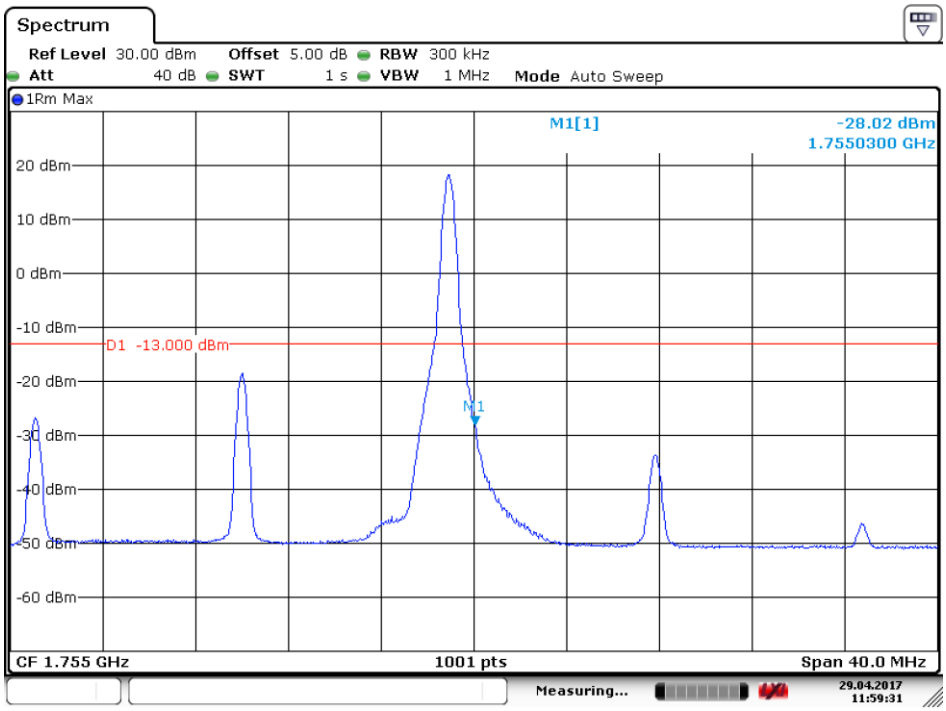
5.1.1.11.1.2 Test RB=100RB



Date: 29.APR.2017 12:01:40

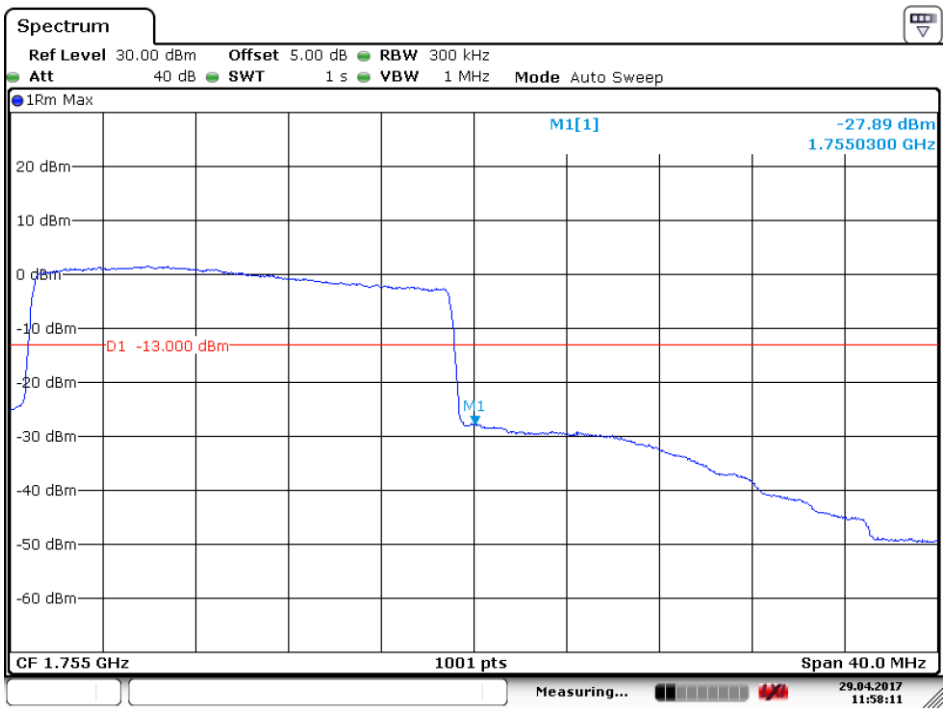
5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



Date: 29.APR.2017 11:59:32

5.1.1.11.2.2 Test RB=100RB

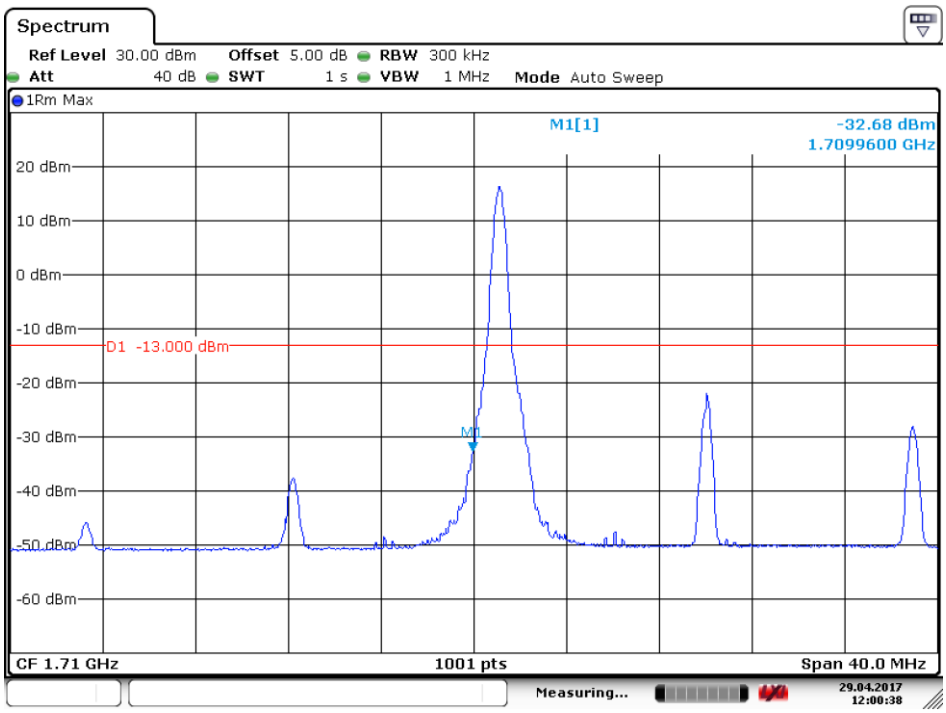


Date: 29.APR.2017 11:58:11

5.1.1.12 Test Mode = LTE/TM2 20MHz

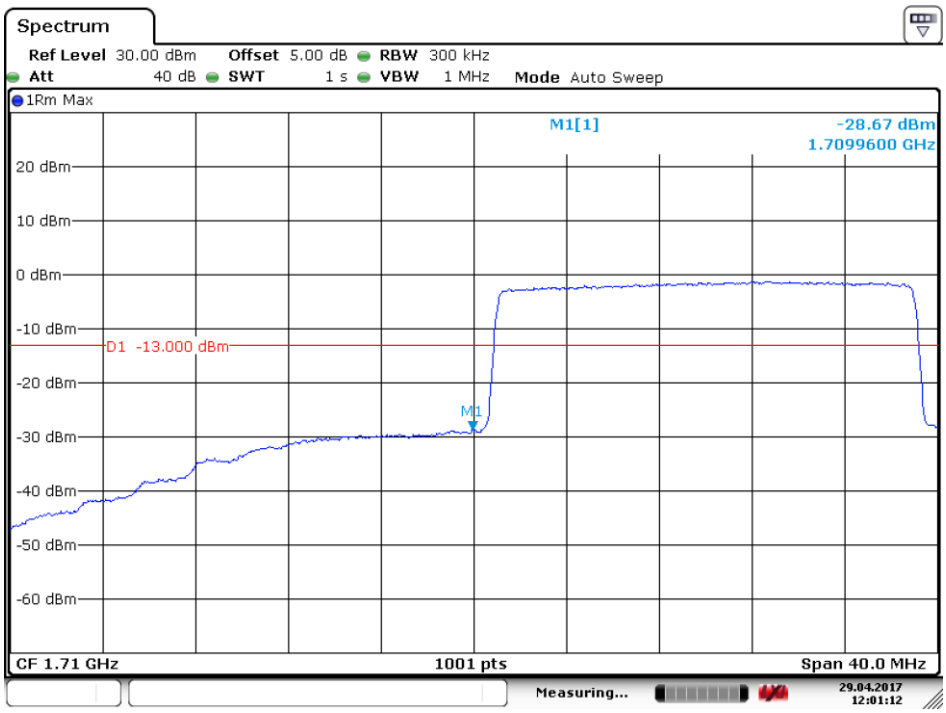
5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



Date: 29.APR.2017 12:00:38

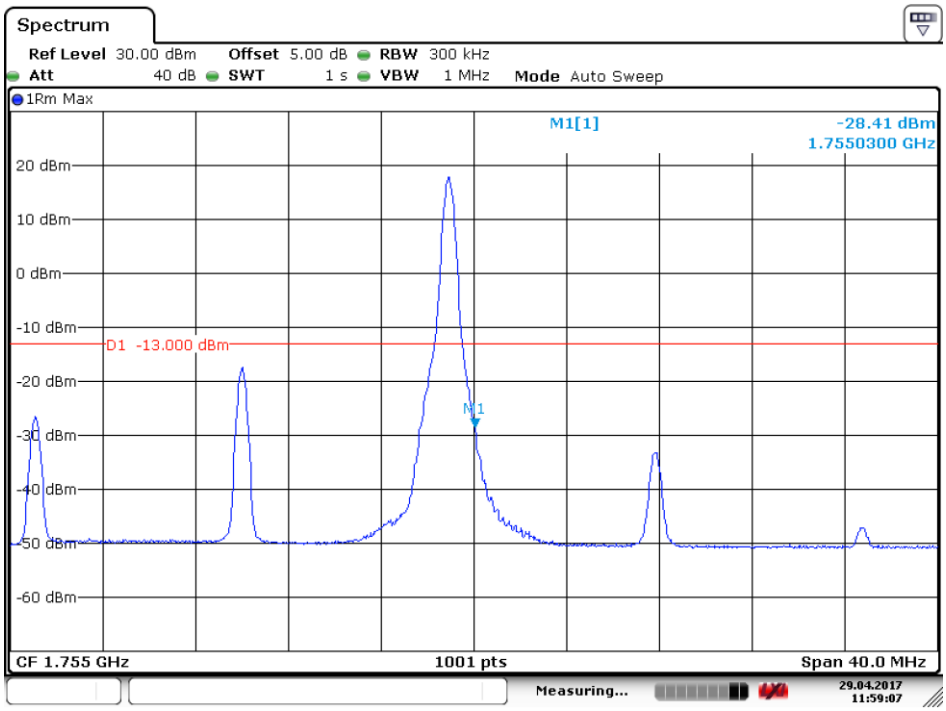
5.1.1.12.1.2 Test RB=100RB



Date: 29.APR.2017 12:01:13

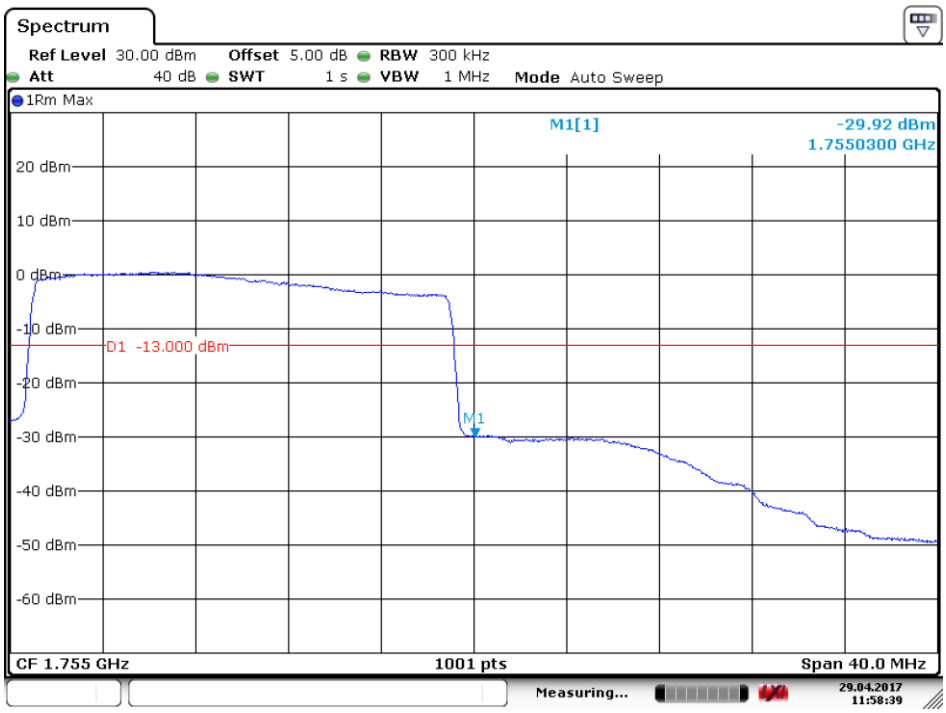
5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



Date: 29.APR.2017 11:59:07

5.1.1.12.2.2 Test RB=100RB



Date: 29.APR.2017 11:58:39

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.

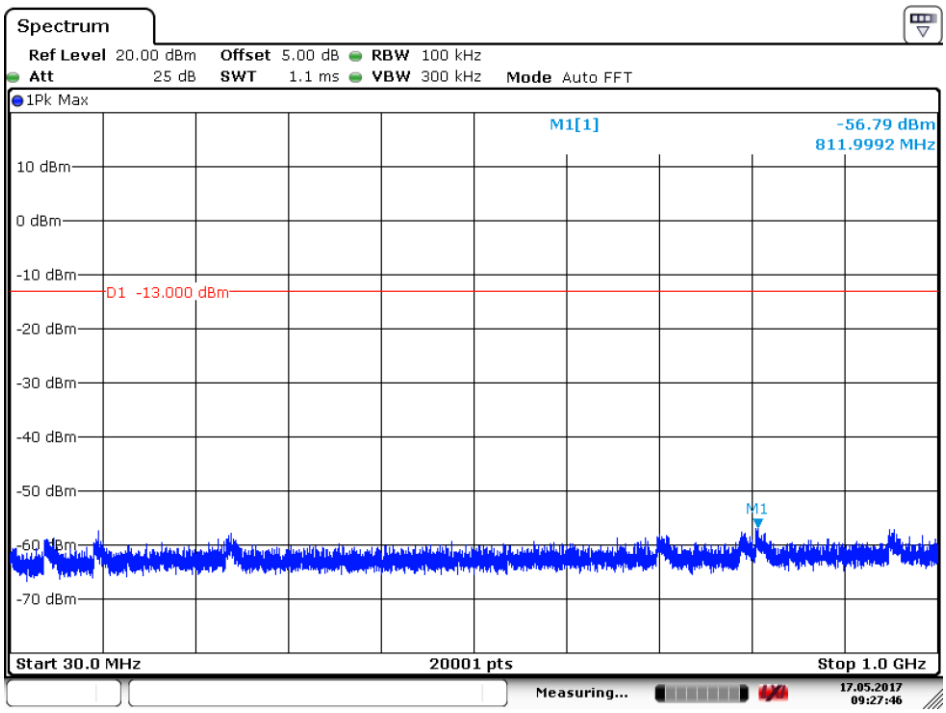
Part I - Test Plots

6.1 For LTE

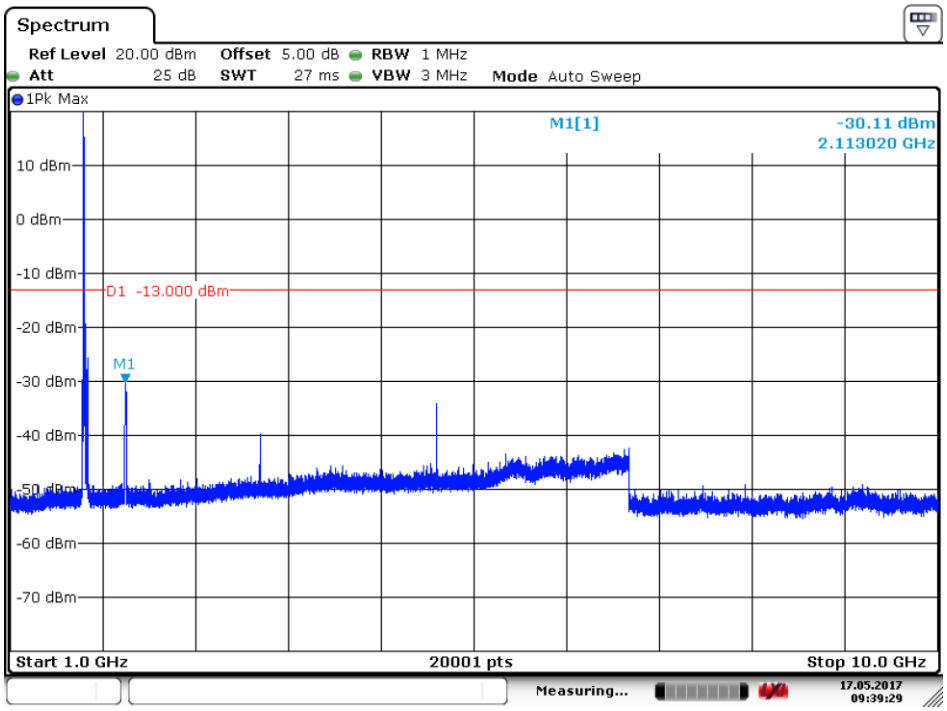
6.1.1 Test Band = LTE band4

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

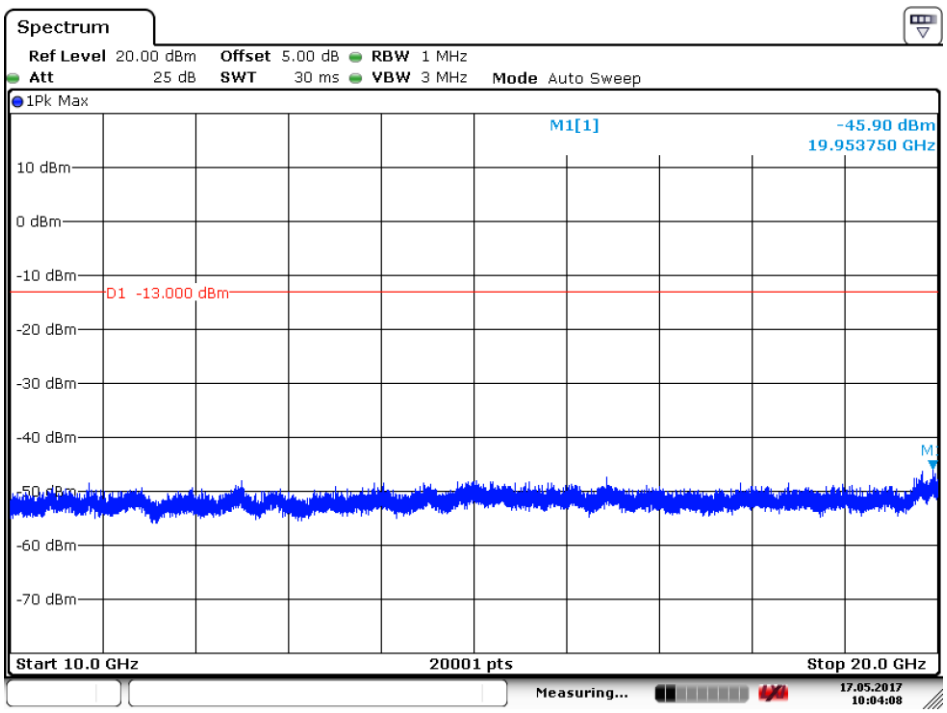
6.1.1.1.1 Test Channel = LCH



Date: 17.MAY.2017 09:27:47

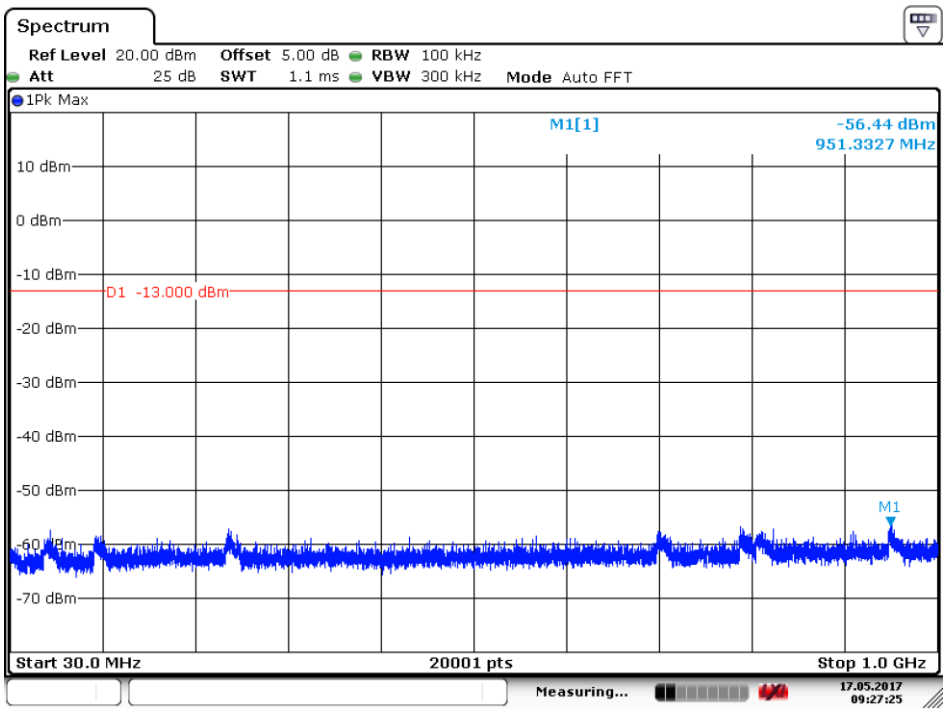


Date: 17.MAY.2017 09:39:30

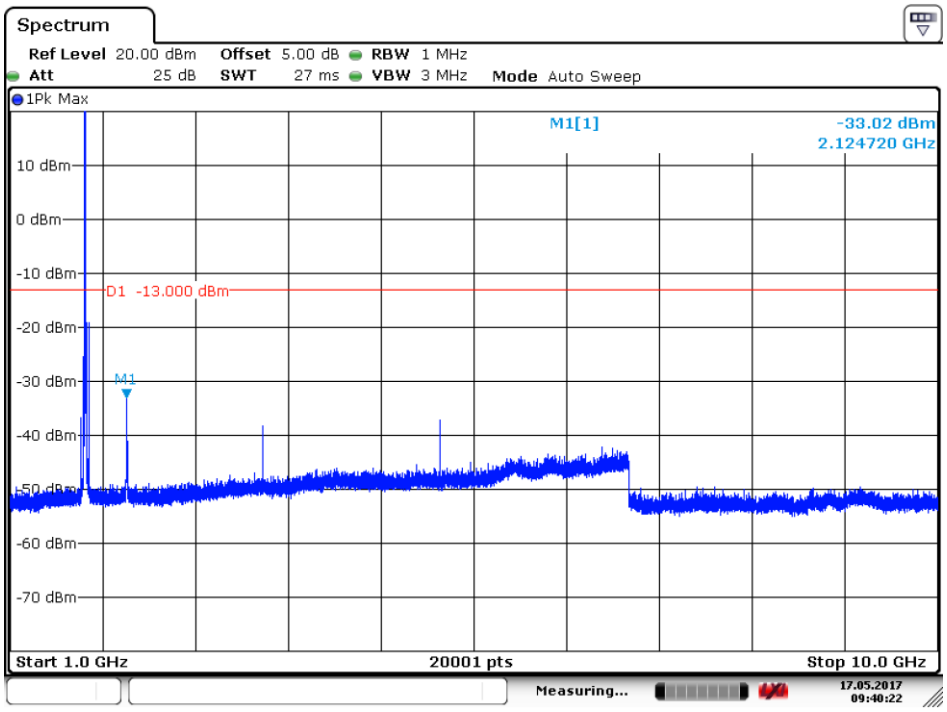


Date: 17.MAY.2017 10:04:08

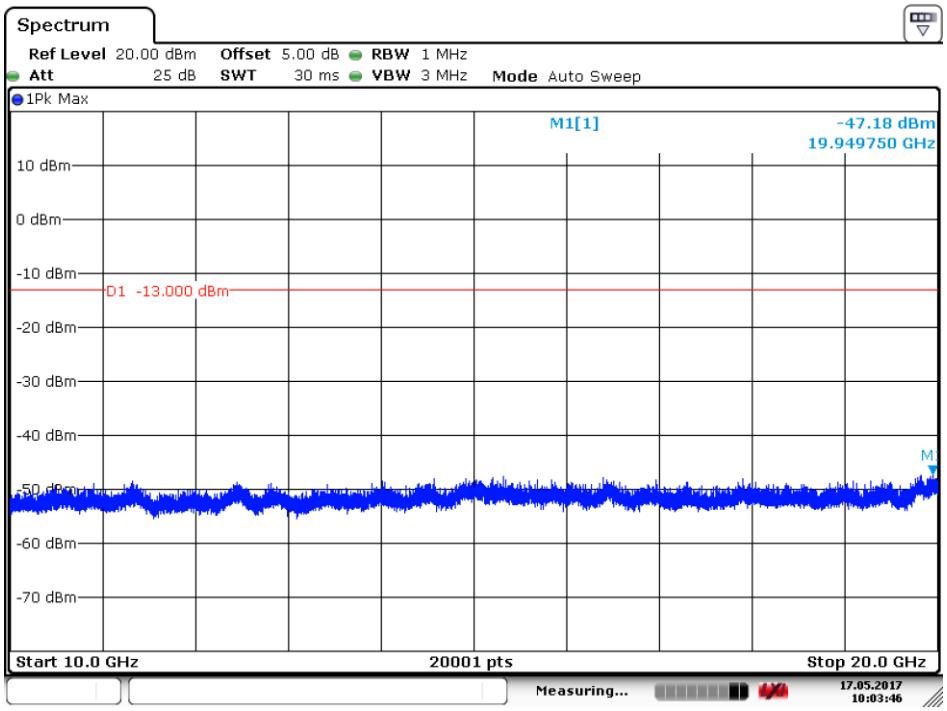
6.1.1.1.2 Test Channel = MCH



Date: 17.MAY.2017 09:27:26

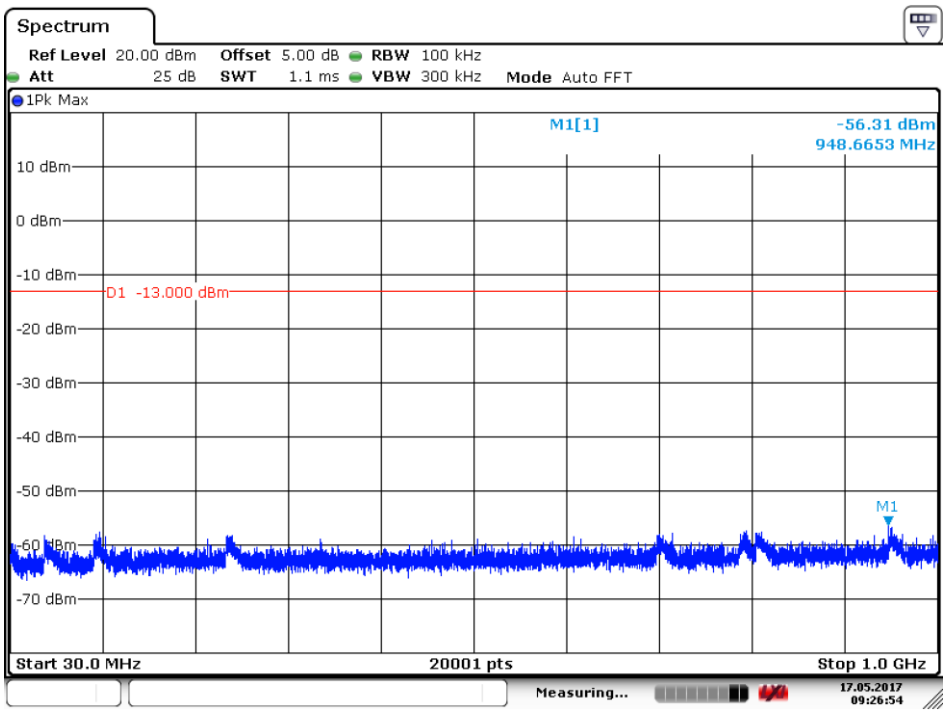


Date: 17.MAY.2017 09:40:23

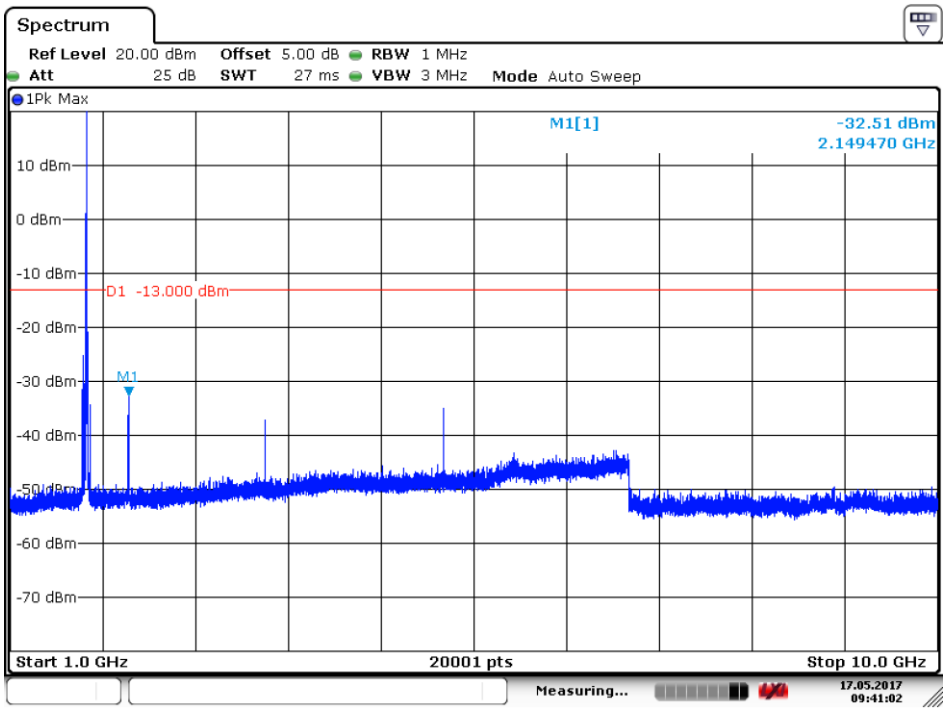


Date: 17.MAY.2017 10:03:46

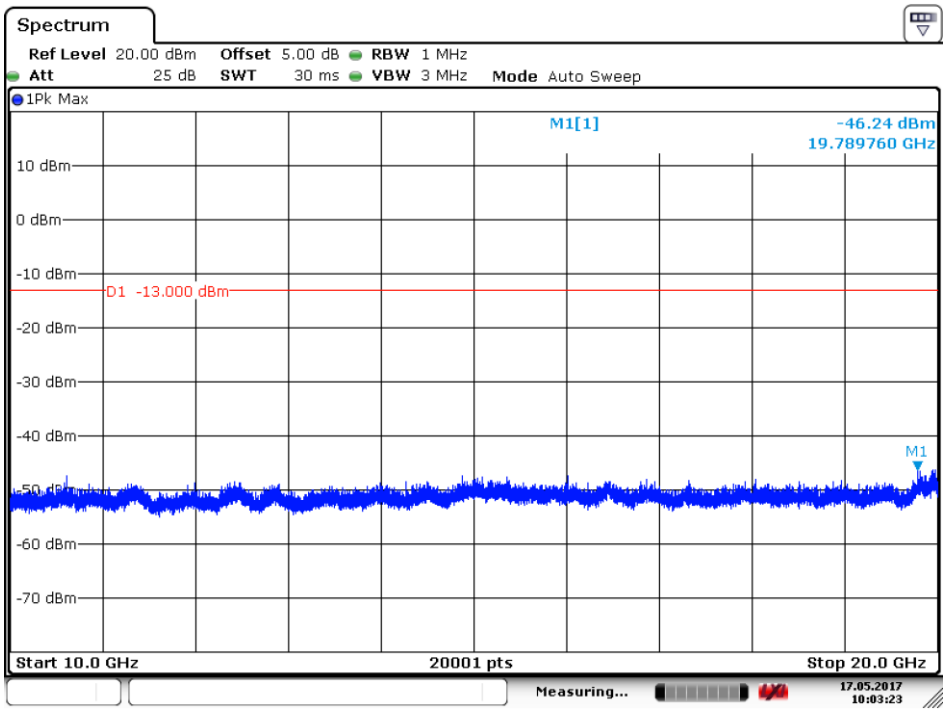
6.1.1.1.3 Test Channel = HCH



Date: 17.MAY.2017 09:26:54



Date: 17.MAY.2017 09:41:02



Date: 17.MAY.2017 10:03:23

7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band4

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

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
39.850000	-64.55	-13.00	-51.55	Vertical
133.550000	-65.47	-13.00	-52.47	Vertical
760.429167	-64.34	-13.00	-51.34	Vertical
2584.500000	-56.76	-13.00	-43.76	Vertical
5132.975000	-58.41	-13.00	-45.41	Vertical
6844.425000	-53.05	-13.00	-40.05	Vertical
66.850000	-71.47	-13.00	-58.47	Horizontal
165.050000	-64.08	-13.00	-51.08	Horizontal
1362.500000	-62.94	-13.00	-49.94	Horizontal
5132.975000	-50.52	-13.00	-37.52	Horizontal
6844.425000	-57.10	-13.00	-44.10	Horizontal
8555.550000	-60.11	-13.00	-47.11	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
LTEband4	LTE/TM1 20MHz	LCH	TN	VL	-4.43	-0.00258	PASS
				VN	2.46	0.00143	PASS
				VH	-7.73	-0.00449	PASS
		MCH	TN	VL	1.49	0.00086	PASS
				VN	-2.84	-0.00164	PASS
				VH	2.63	0.00152	PASS
		HCH	TN	VL	-6.56	-0.00376	PASS
				VN	-5.17	-0.00296	PASS
				VH	-0.79	-0.00045	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-4.20	-0.00244	PASS
				VN	-2.95	-0.00172	PASS
				VH	-5.16	-0.00300	PASS
		MCH	TN	VL	4.56	0.00263	PASS
				VN	-2.80	-0.00162	PASS
				VH	2.59	0.00149	PASS
		HCH	TN	VL	-3.08	-0.00177	PASS
				VN	-6.61	-0.00379	PASS
				VH	3.44	0.00197	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
LTEband4	LTE/TM1 20MHz	LCH	VN	-30	-5.40	-0.00314	PASS
				-20	-1.34	-0.00078	PASS
				-10	2.38	0.00138	PASS
				0	5.72	0.00333	PASS
				10	1.65	0.00096	PASS
				20	4.11	0.00239	PASS
				30	-3.31	-0.00192	PASS
				40	-0.79	-0.00046	PASS
				50	2.52	0.00147	PASS
		MCH	VN	-30	-4.80	-0.00277	PASS
				-20	-5.95	-0.00343	PASS
				-10	-7.49	-0.00432	PASS
				0	-5.62	-0.00324	PASS
				10	-4.04	-0.00233	PASS
				20	-9.94	-0.00574	PASS
				30	-5.66	-0.00327	PASS
				40	-4.62	-0.00267	PASS
				50	-6.92	-0.00399	PASS
		HCH	VN	-30	3.54	0.00203	PASS
				-20	-4.49	-0.00257	PASS
				-10	1.53	0.00088	PASS
				0	-3.83	-0.00219	PASS
				10	2.60	0.00149	PASS
				20	-1.57	-0.00090	PASS
				30	-7.66	-0.00439	PASS
				40	-5.43	-0.00311	PASS
				50	-3.24	-0.00186	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband4	LTE/TM2 20MHz	LCH	VN	-30	-1.50	-0.00087	PASS
				-20	-2.45	-0.00142	PASS
				-10	3.38	0.00197	PASS
				0	2.64	0.00153	PASS
				10	1.60	0.00093	PASS
				20	-0.23	-0.00013	PASS
				30	-3.41	-0.00198	PASS
				40	5.34	0.00310	PASS
				50	4.79	0.00278	PASS
		MCH	VN	-30	-3.36	-0.00194	PASS
				-20	-5.38	-0.00311	PASS
				-10	-7.29	-0.00421	PASS
				0	-4.32	-0.00249	PASS
				10	-0.34	-0.00020	PASS
				20	1.74	0.00100	PASS
				30	-5.64	-0.00326	PASS
				40	-2.62	-0.00151	PASS
				50	-3.91	-0.00226	PASS
		HCH	VN	-30	4.34	0.00249	PASS
				-20	-2.55	-0.00146	PASS
				-10	1.59	0.00091	PASS
				0	-3.73	-0.00214	PASS
				10	4.88	0.00280	PASS
				20	-1.47	-0.00084	PASS
				30	-3.59	-0.00206	PASS
				40	-4.33	-0.00248	PASS
				50	-7.20	-0.00413	PASS

The End