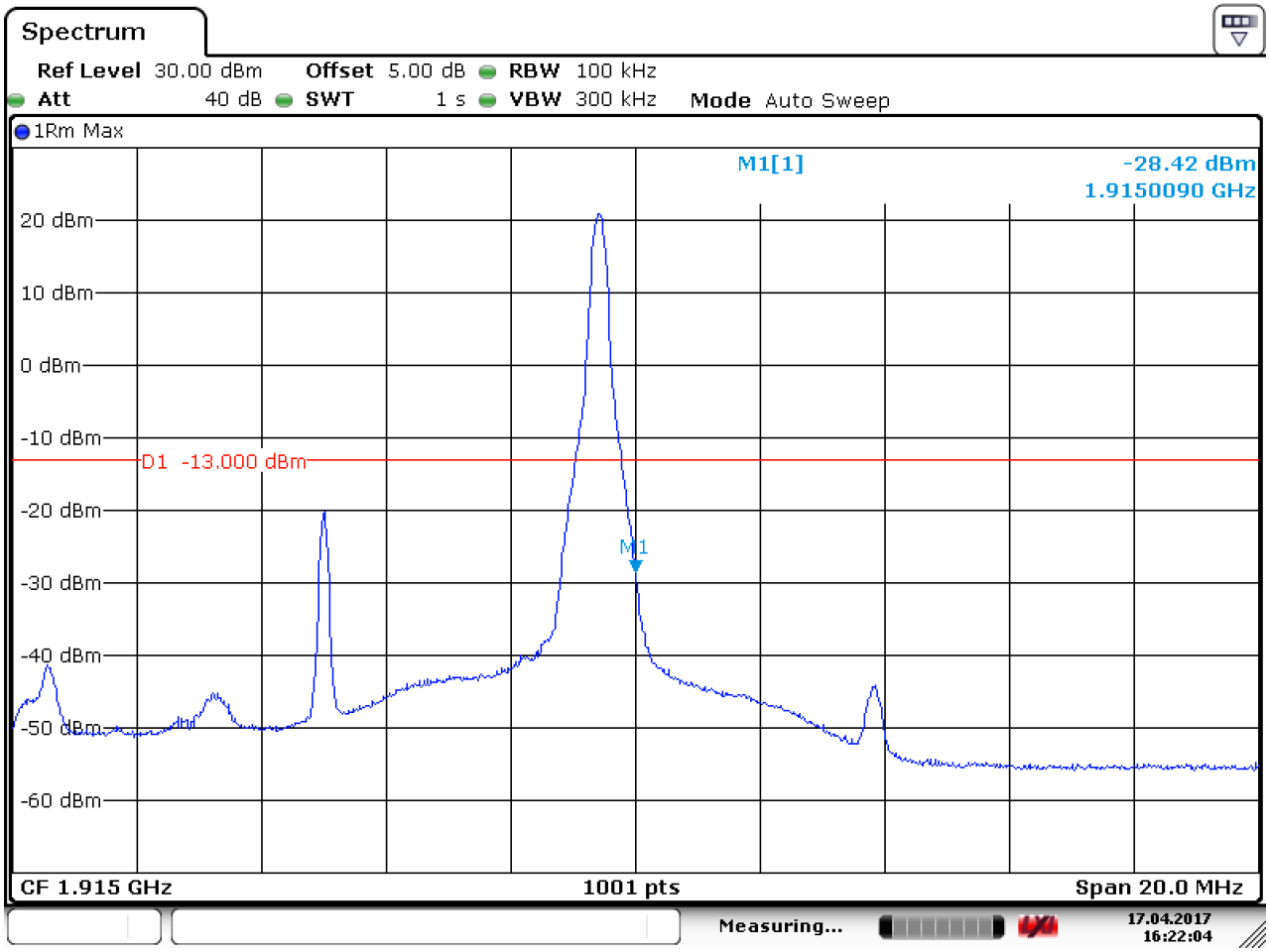
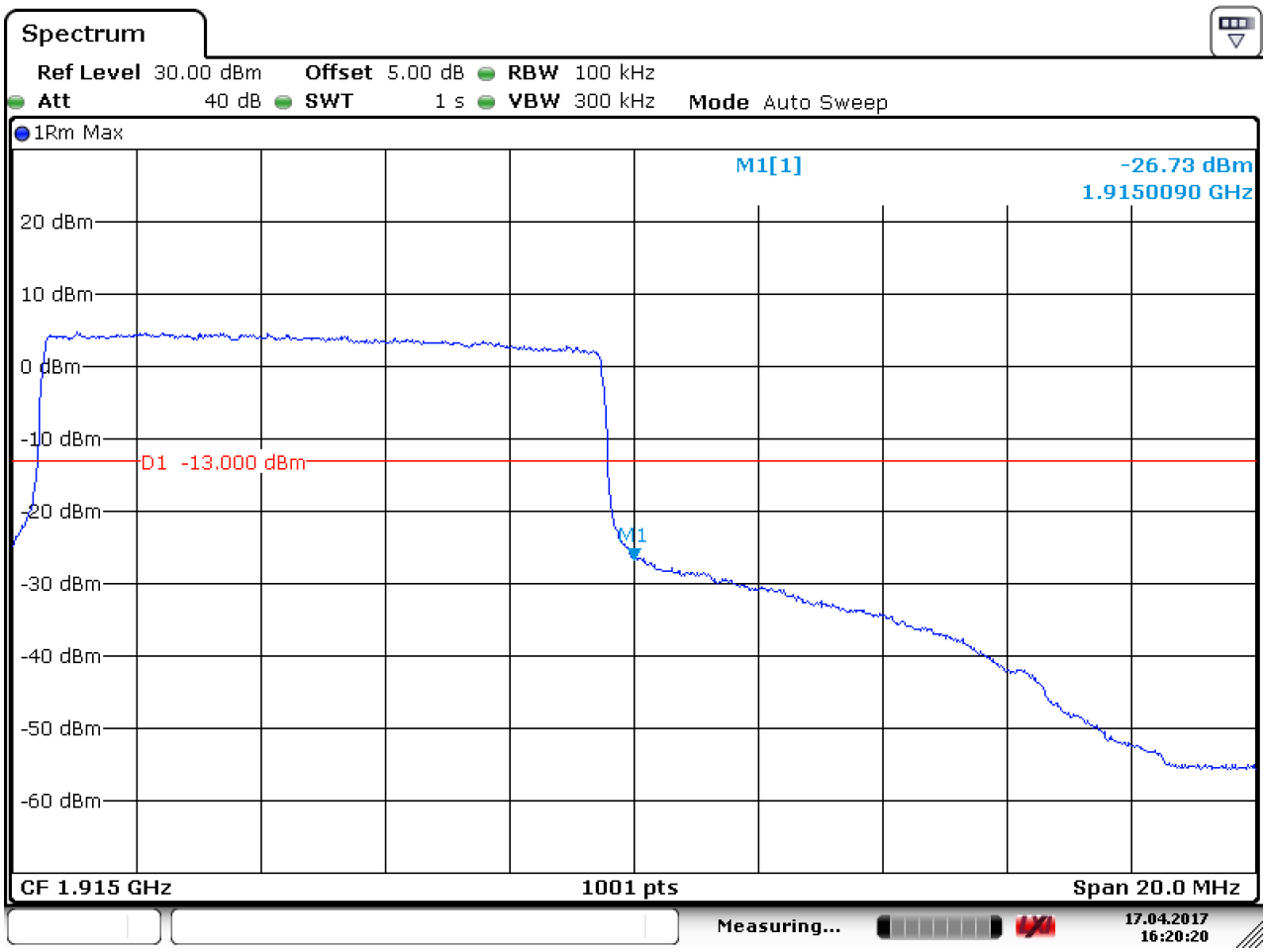
5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 17.APR.2017 16:22:04

5.1.1.7.2.2 Test RB=50RB

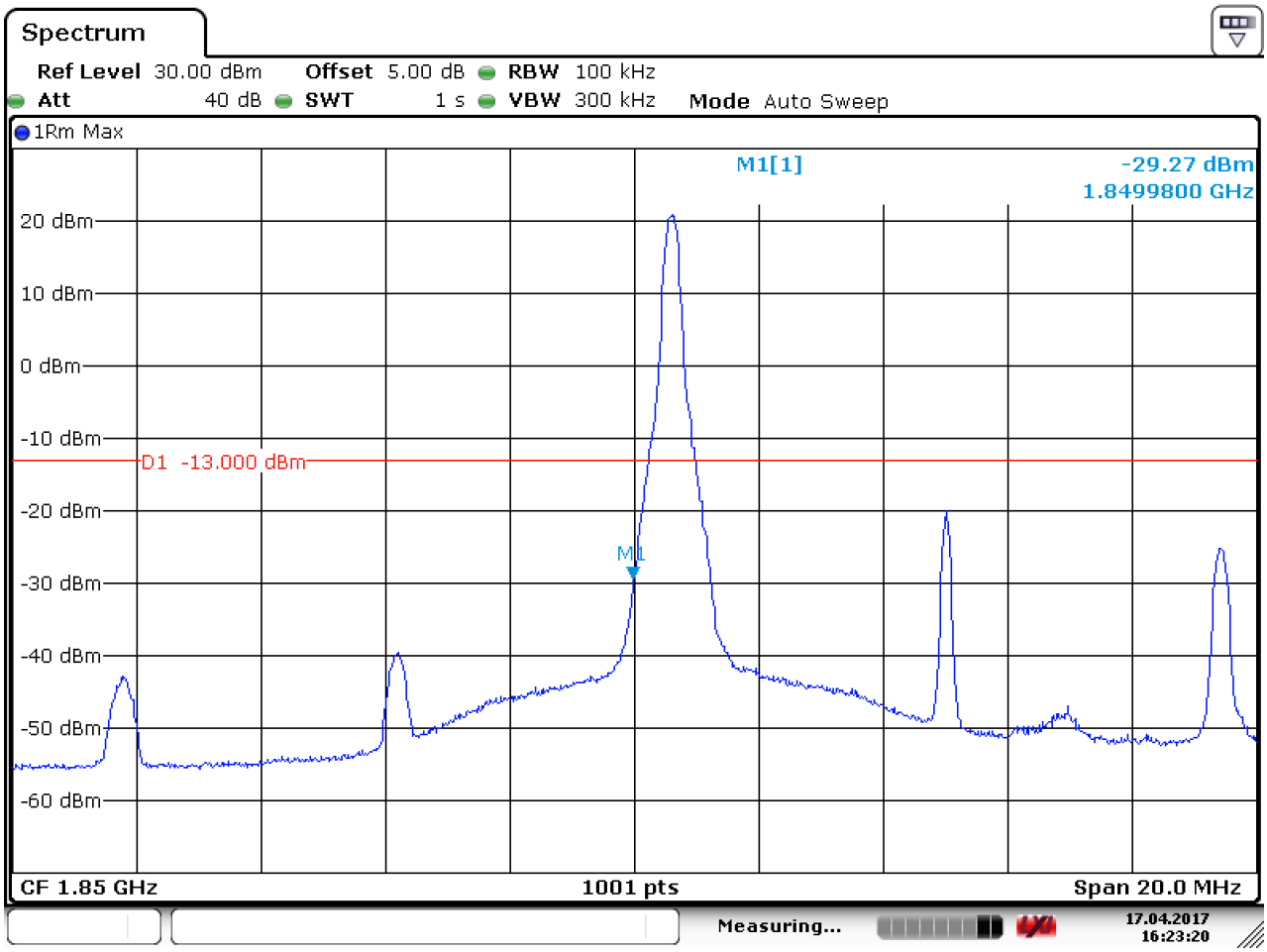


Date: 17.APR.2017 16:20:20

5.1.1.8 Test Mode = LTE/TM2 10MHz

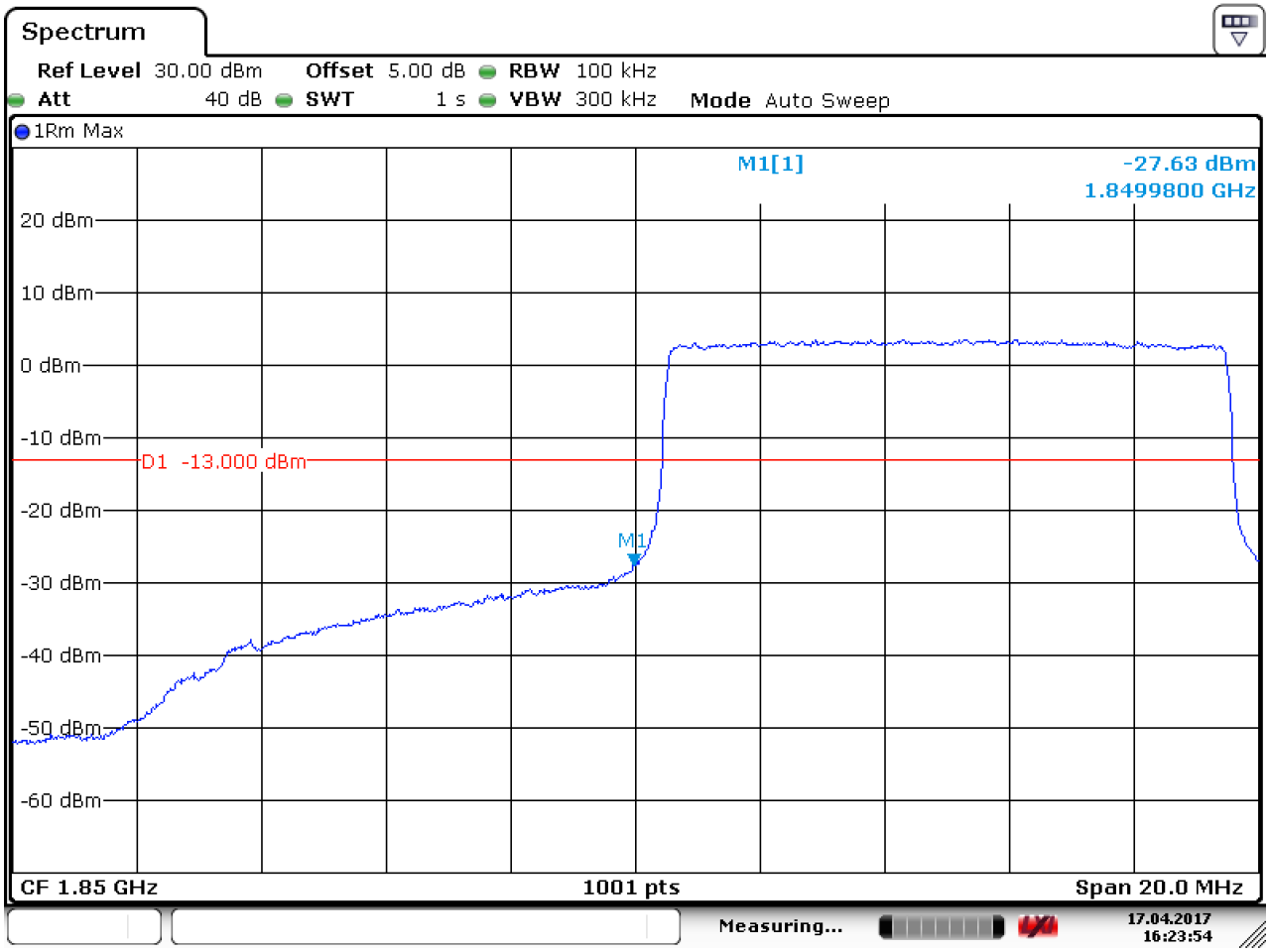
5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



Date: 17.APR.2017 16:23:20

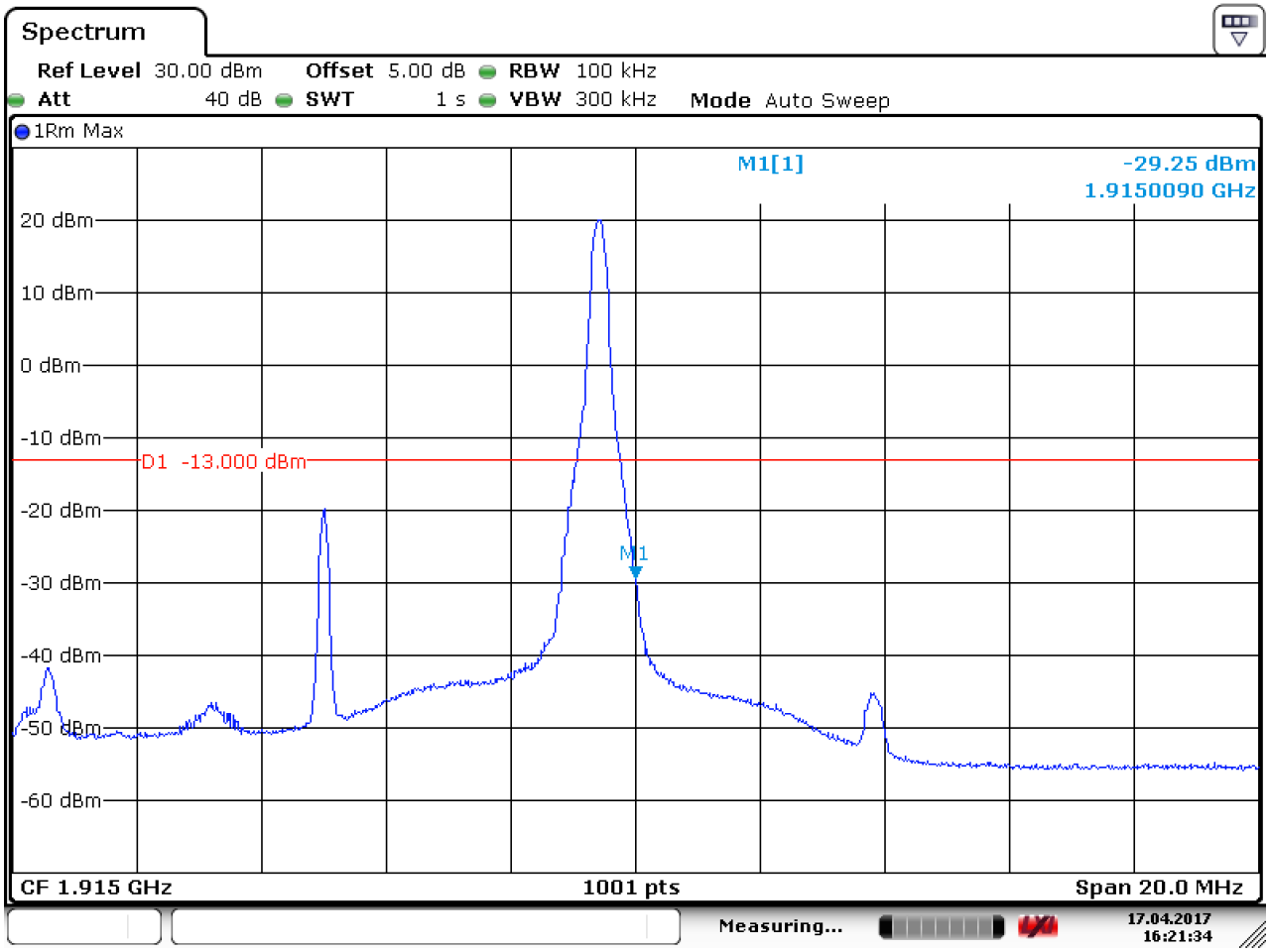
5.1.1.8.1.2 Test RB=50RB



Date: 17.APR.2017 16:23:54

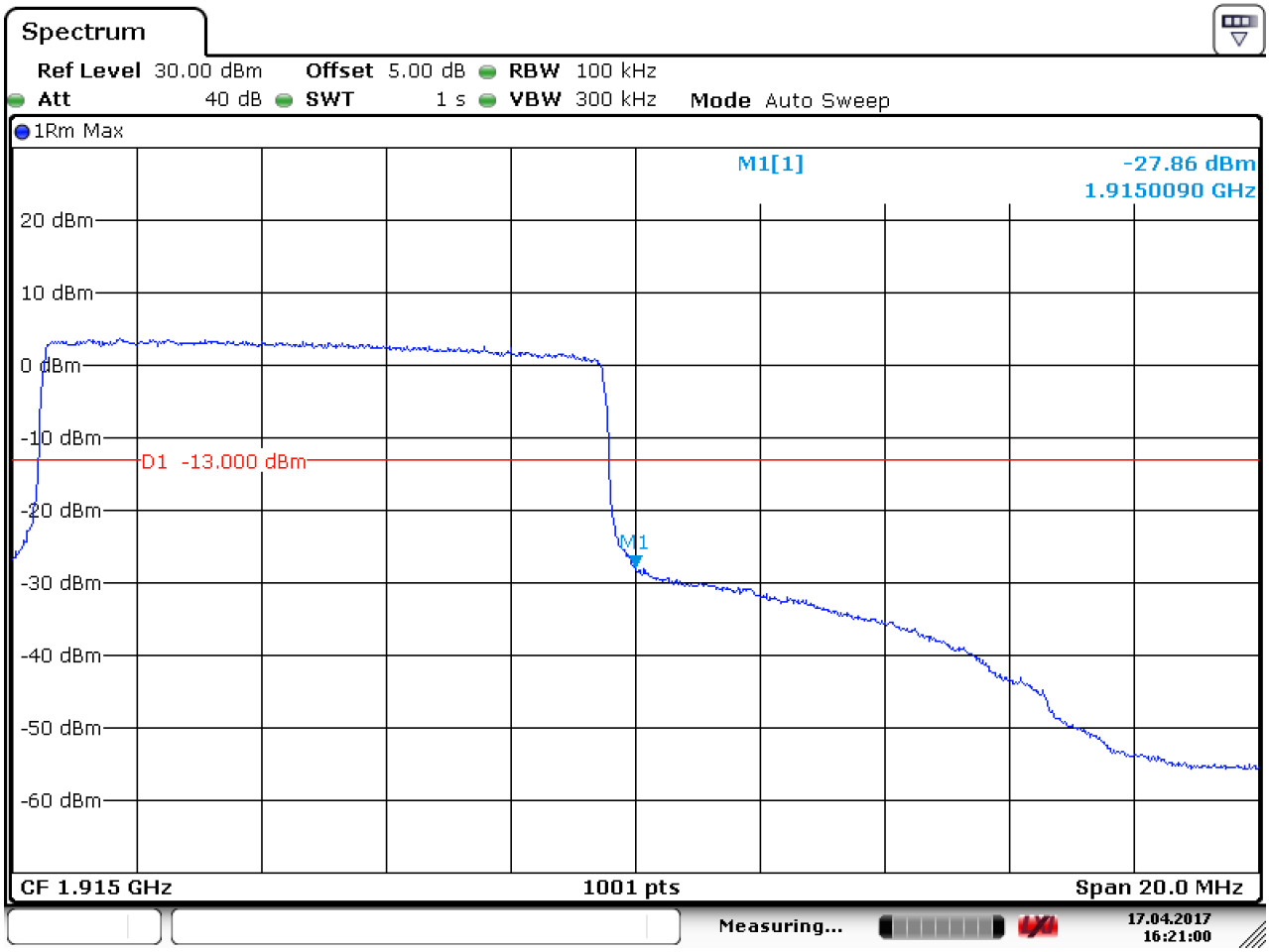
5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 17.APR.2017 16:21:34

5.1.1.8.2.2 Test RB=50RB

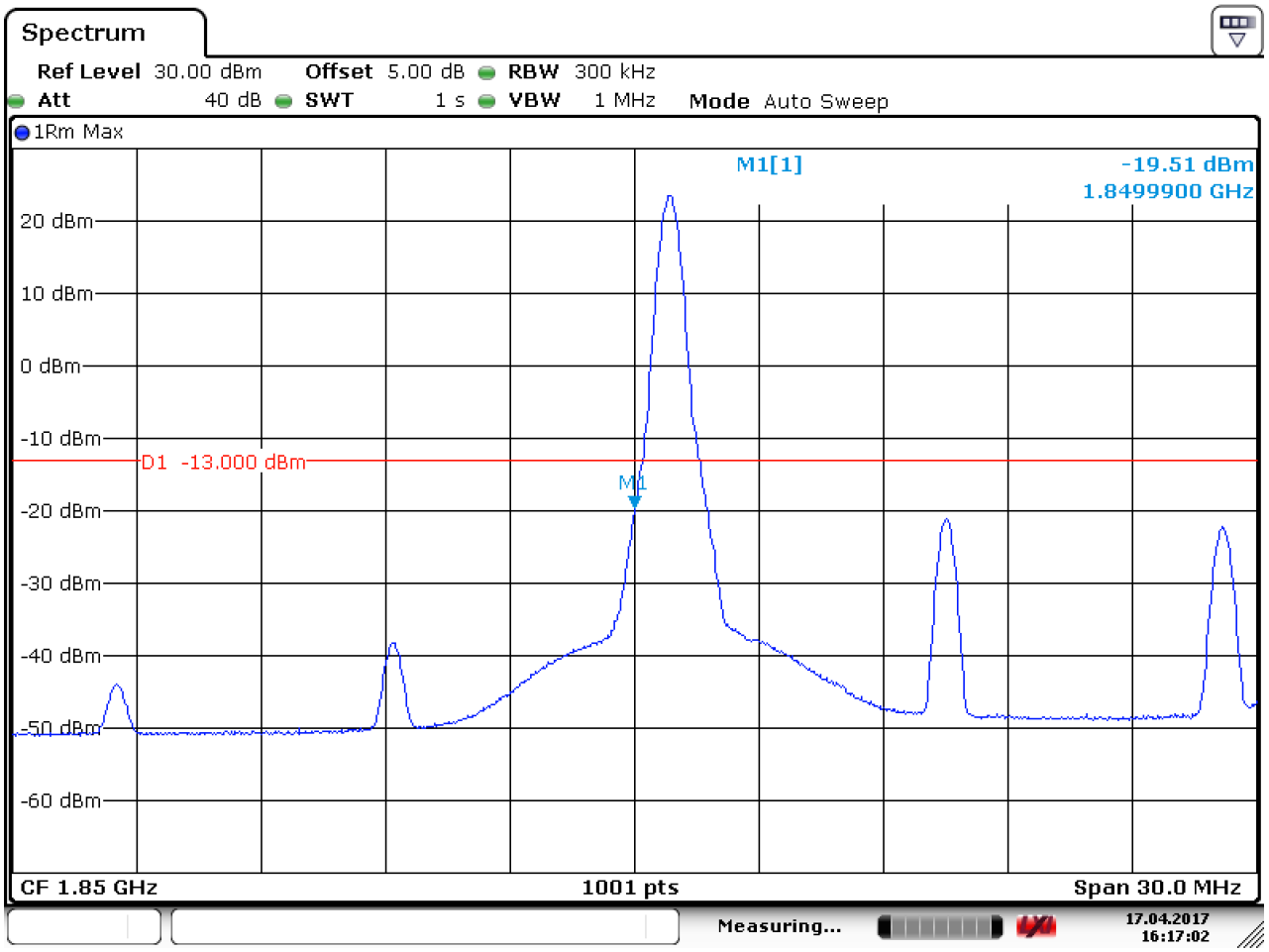


Date: 17.APR.2017 16:21:01

5.1.1.9 Test Mode = LTE/TM1 15MHz

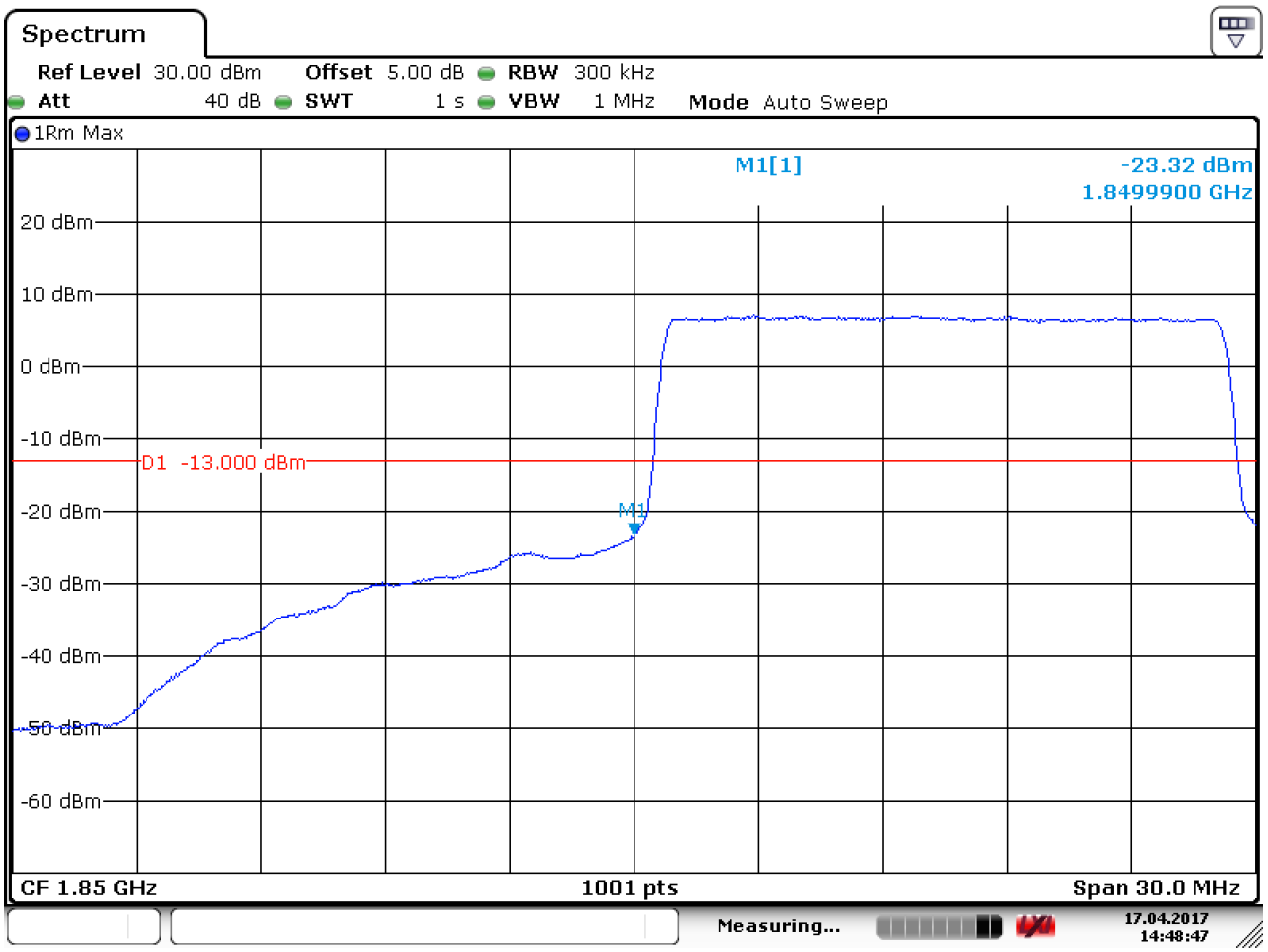
5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



Date: 17.APR.2017 16:17:02

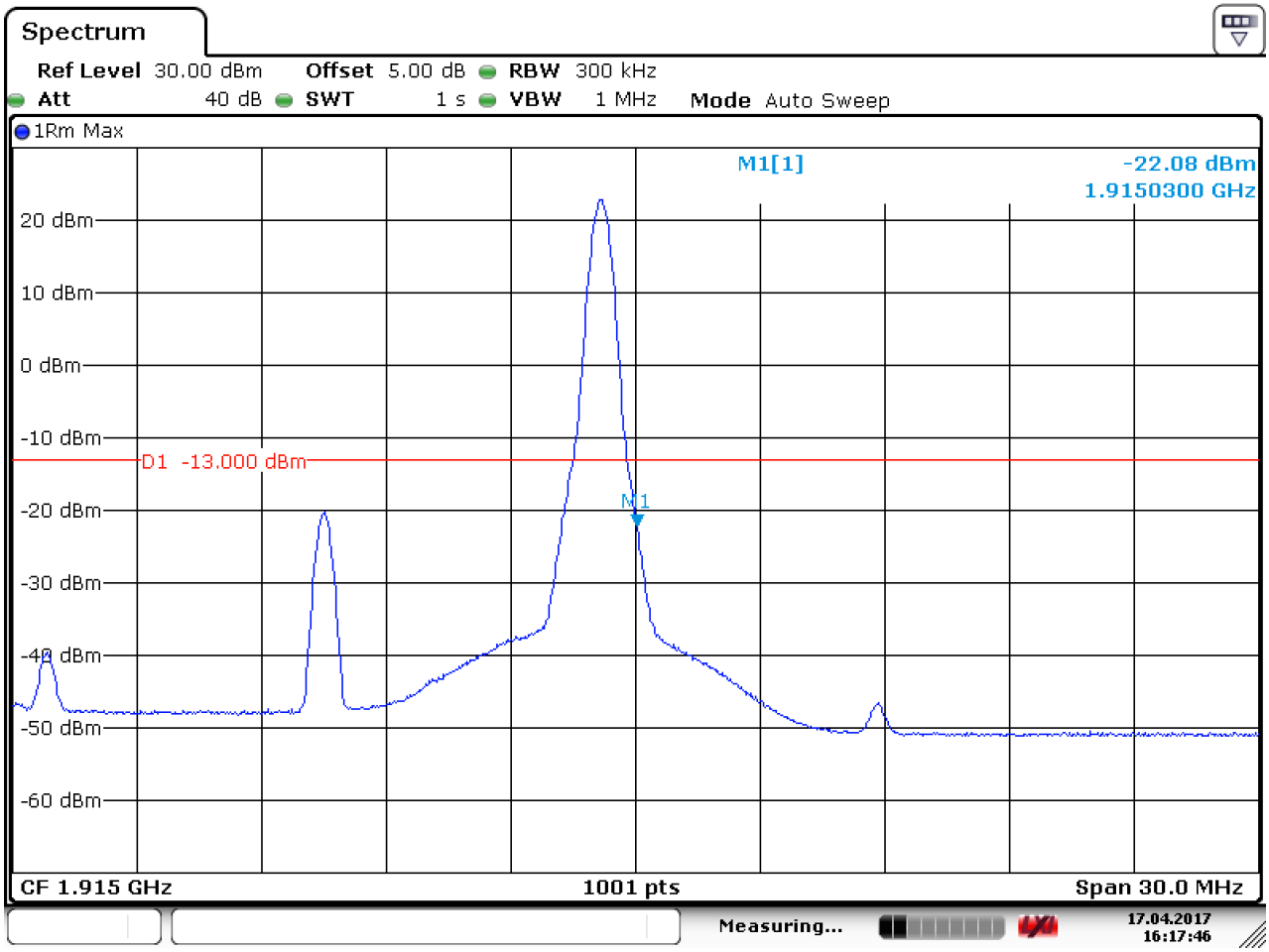
5.1.1.9.1.2 Test RB=75RB



Date: 17.APR.2017 14:48:47

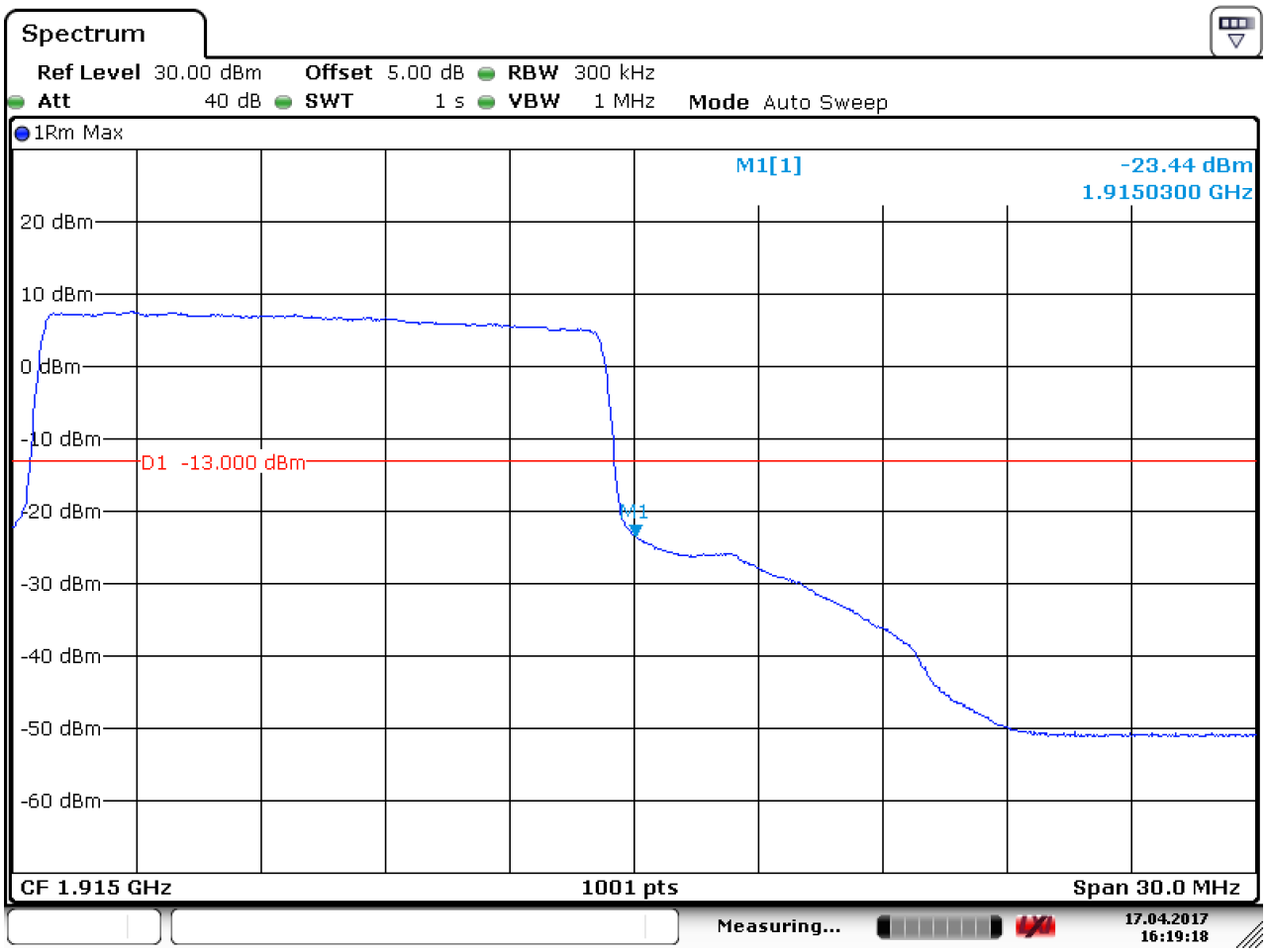
5.1.1.9.2 Test Channel = HCH

5.1.1.9.2.1 Test RB=1RB



Date: 17.APR.2017 16:17:46

5.1.1.9.2.2 Test RB=75RB

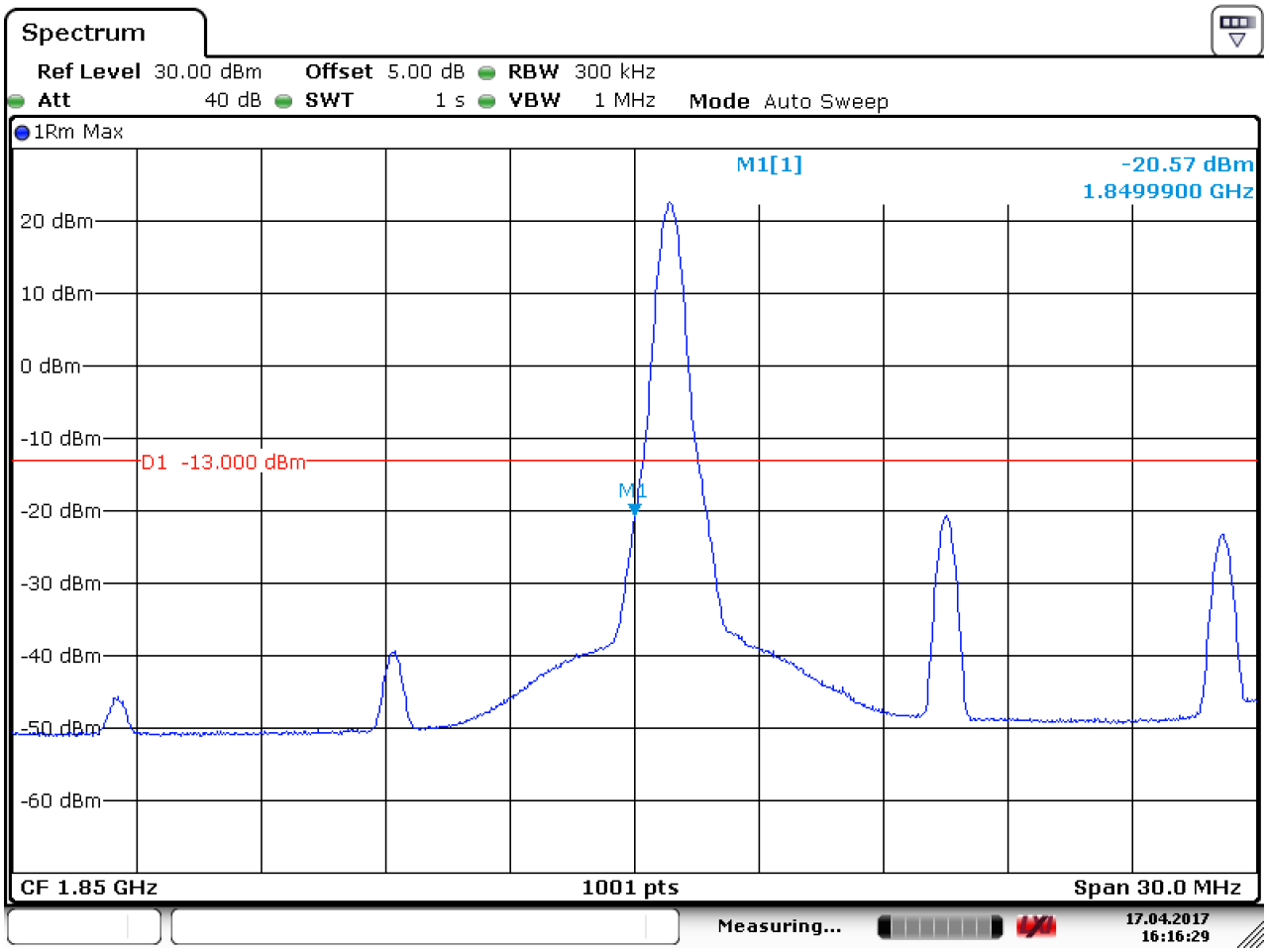


Date: 17.APR.2017 16:19:18

5.1.1.10 Test Mode = LTE/TM2 15MHz

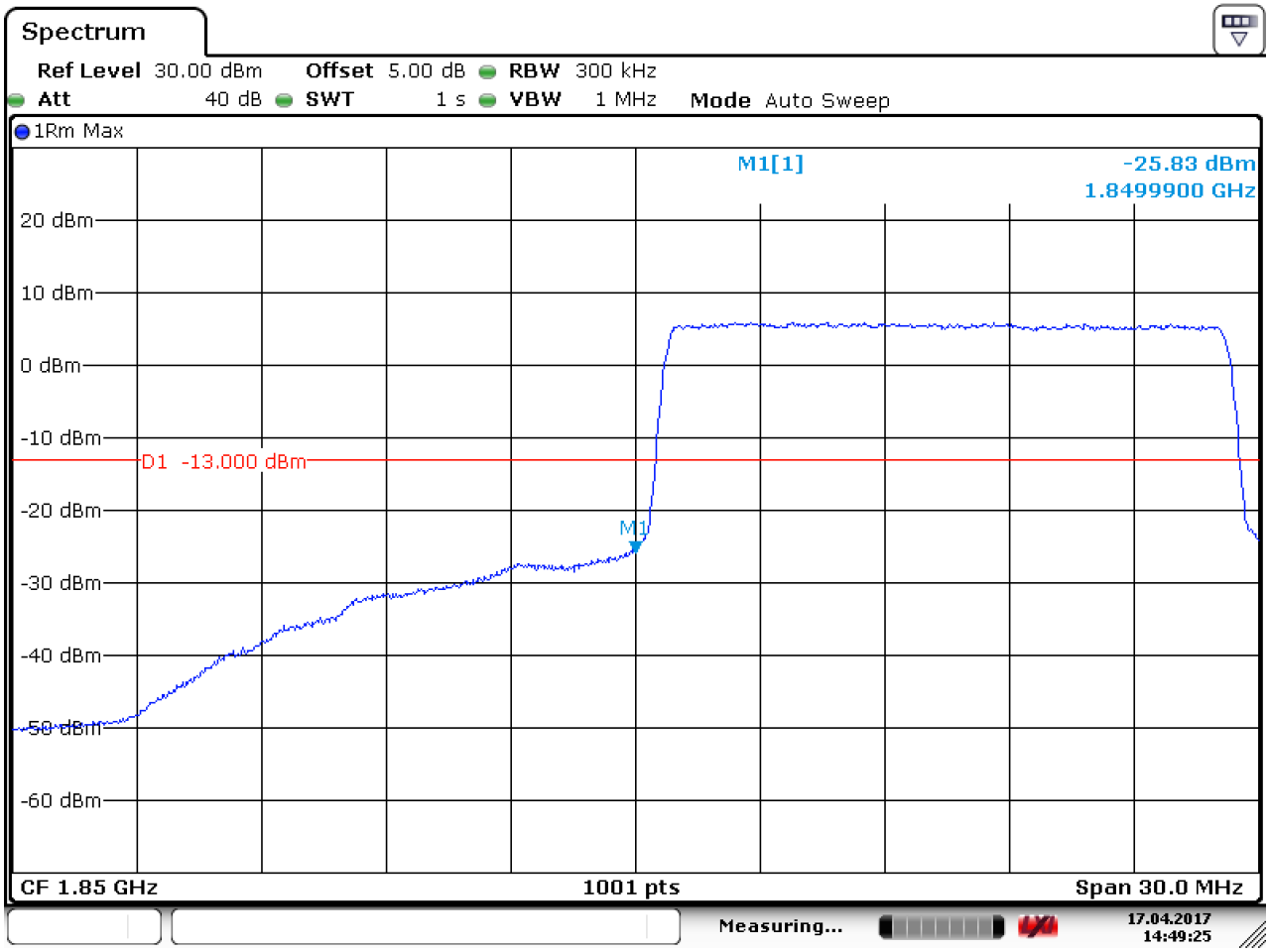
5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



Date: 17.APR.2017 16:16:29

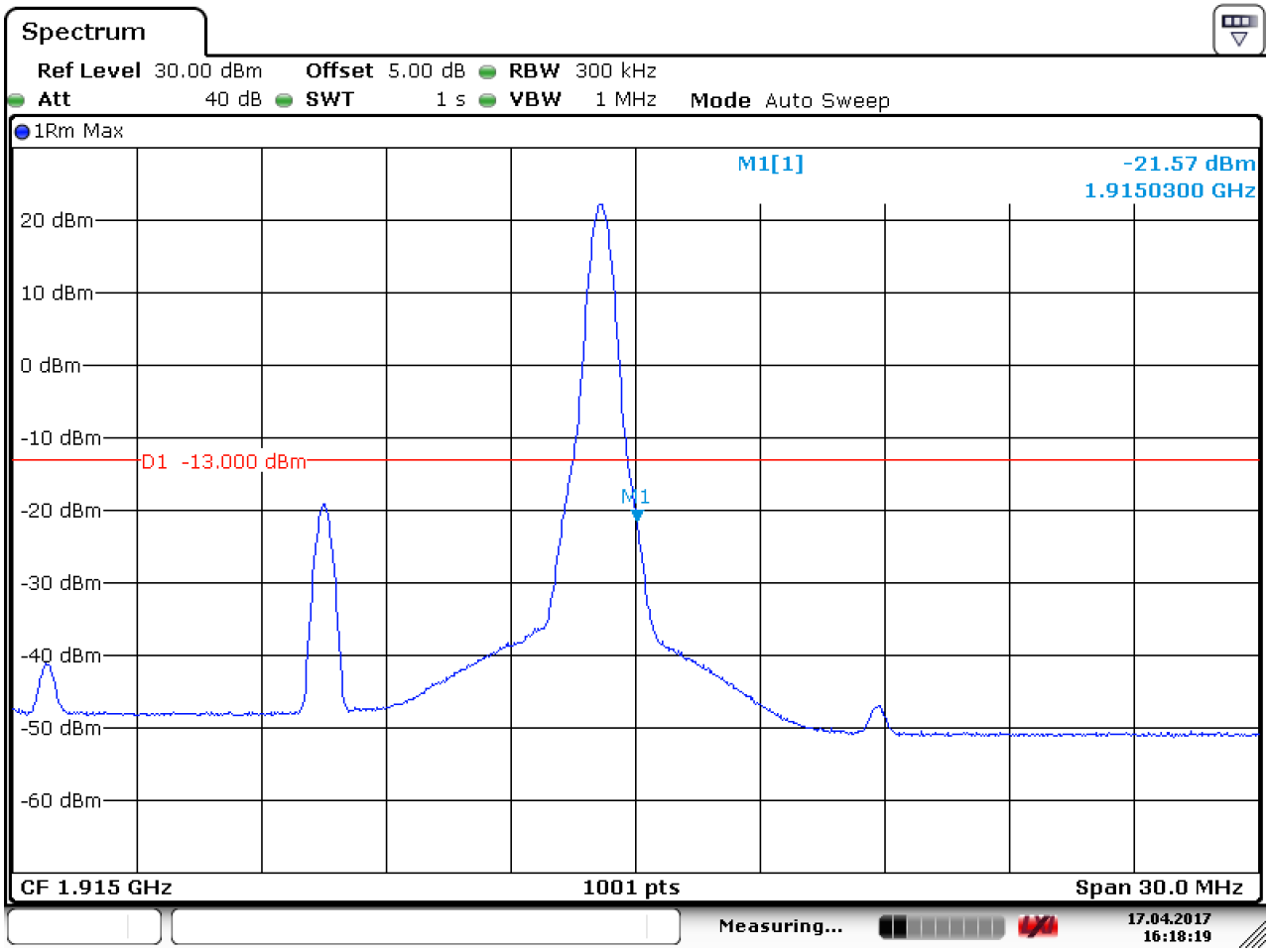
5.1.1.10.1.2 Test RB=75RB



Date: 17.APR.2017 14:49:26

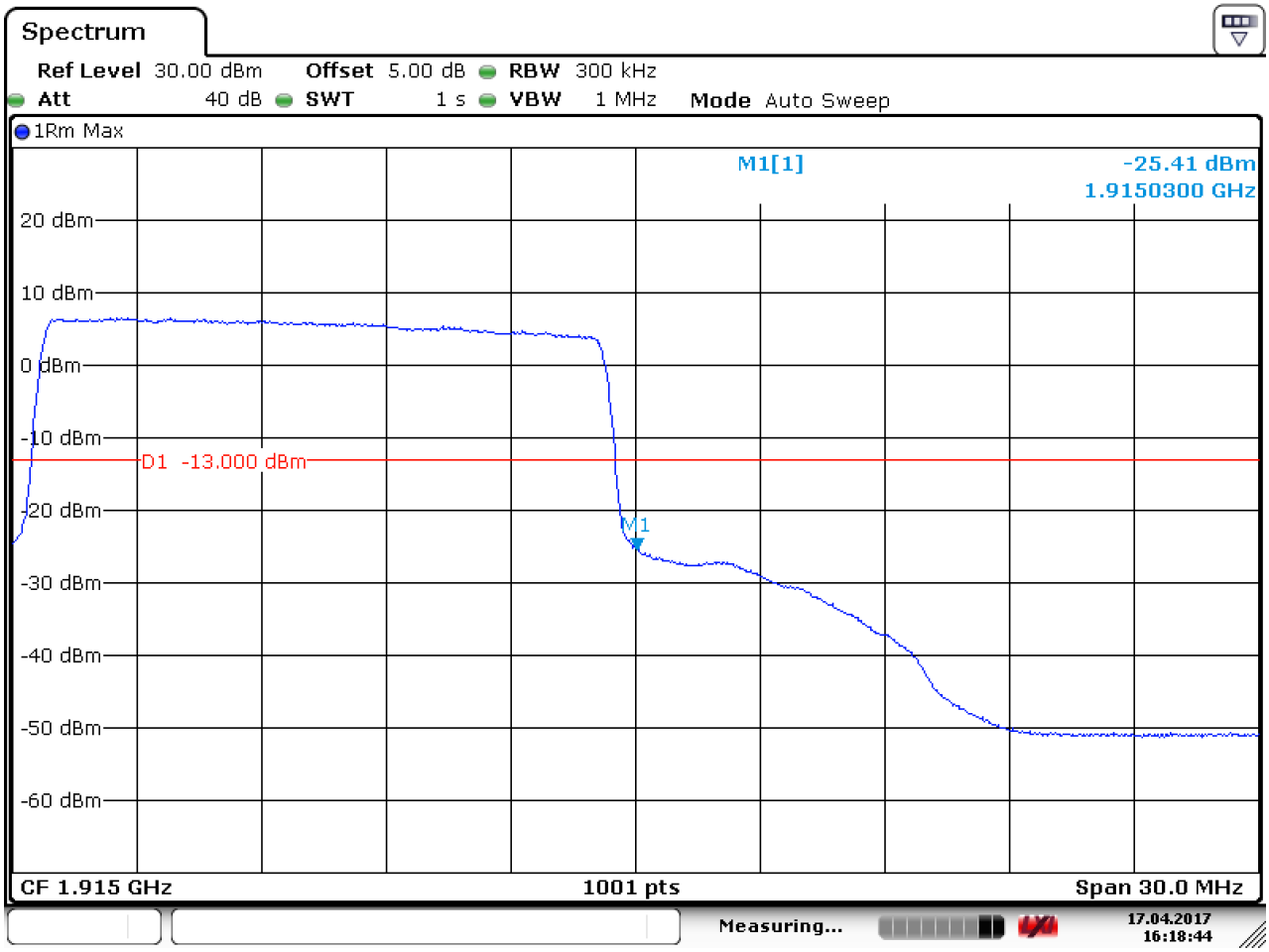
5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 17.APR.2017 16:18:19

5.1.1.10.2.2 Test RB=75RB

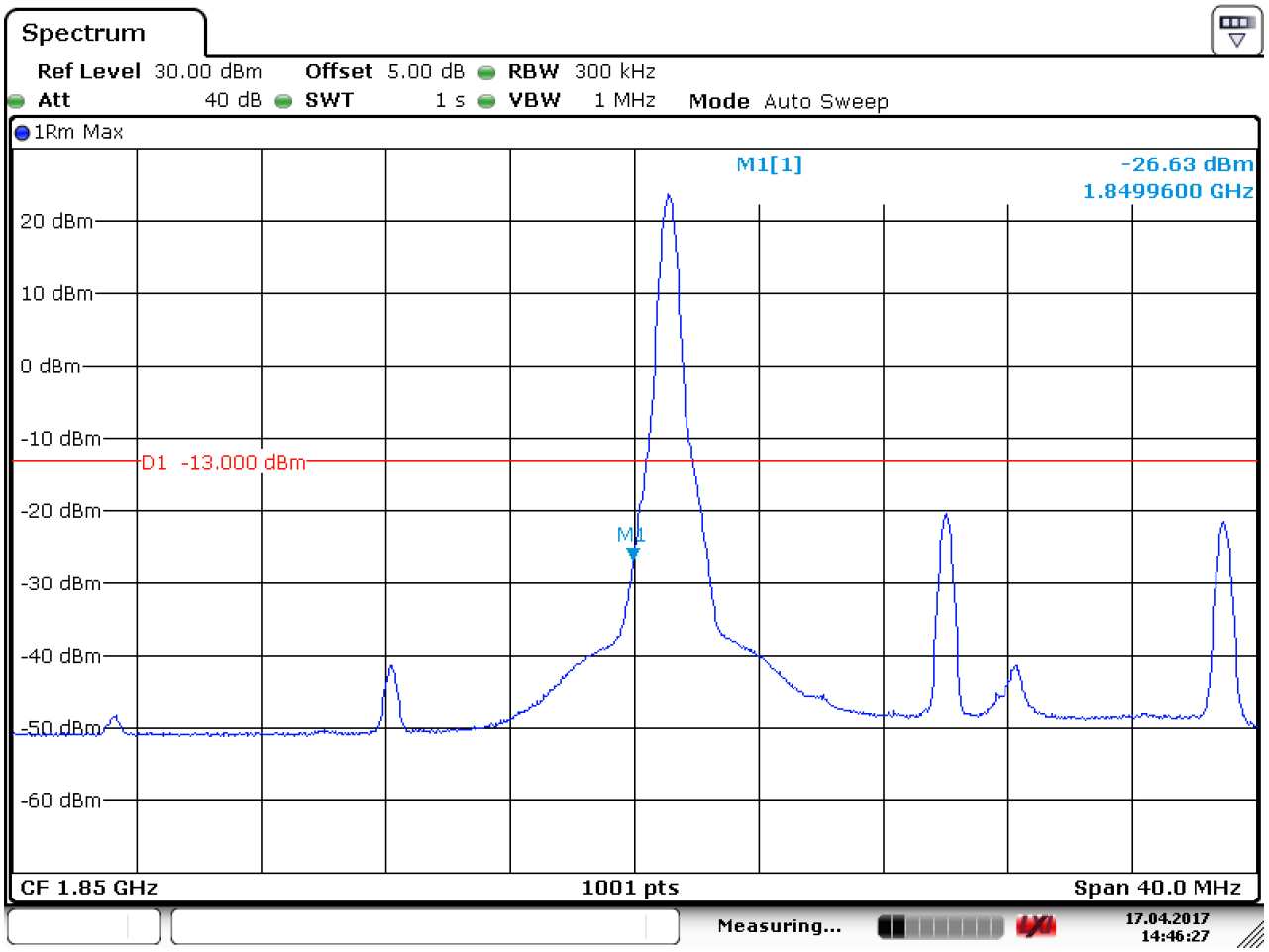


Date: 17.APR.2017 16:18:45

5.1.1.11 Test Mode = LTE/TM1 20MHz

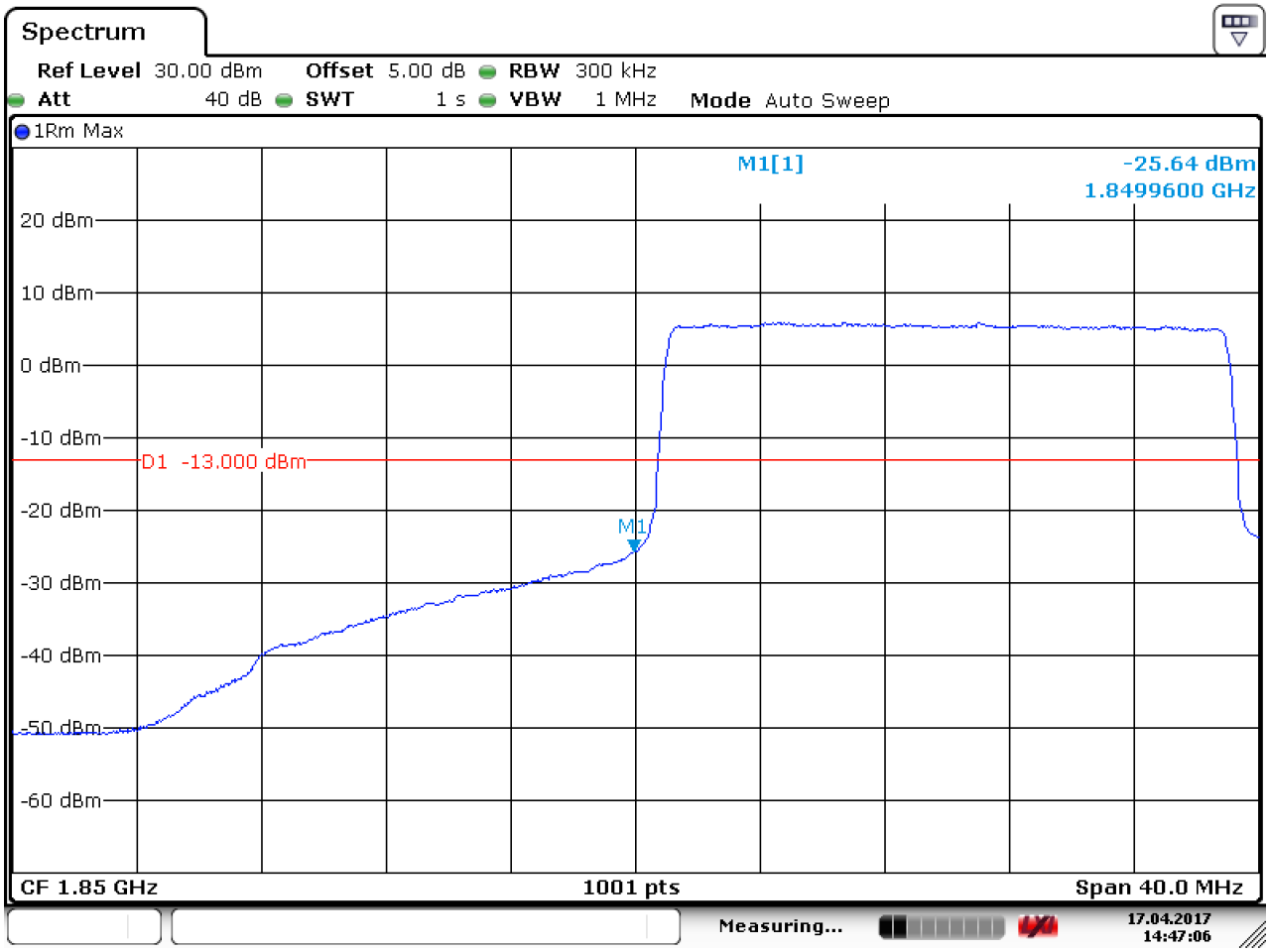
5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



Date: 17.APR.2017 14:46:27

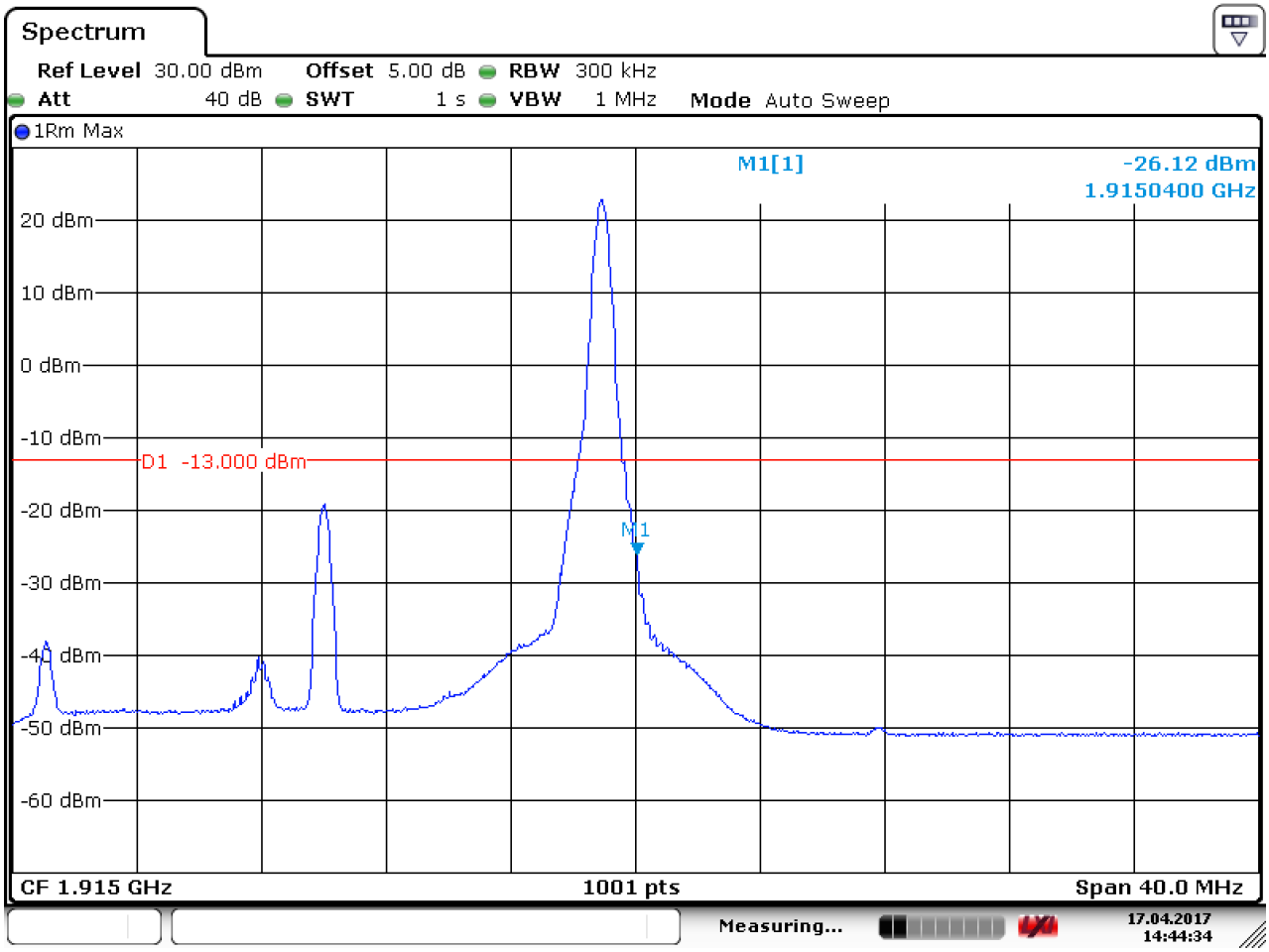
5.1.1.11.1.2 Test RB=100RB



Date: 17.APR.2017 14:47:07

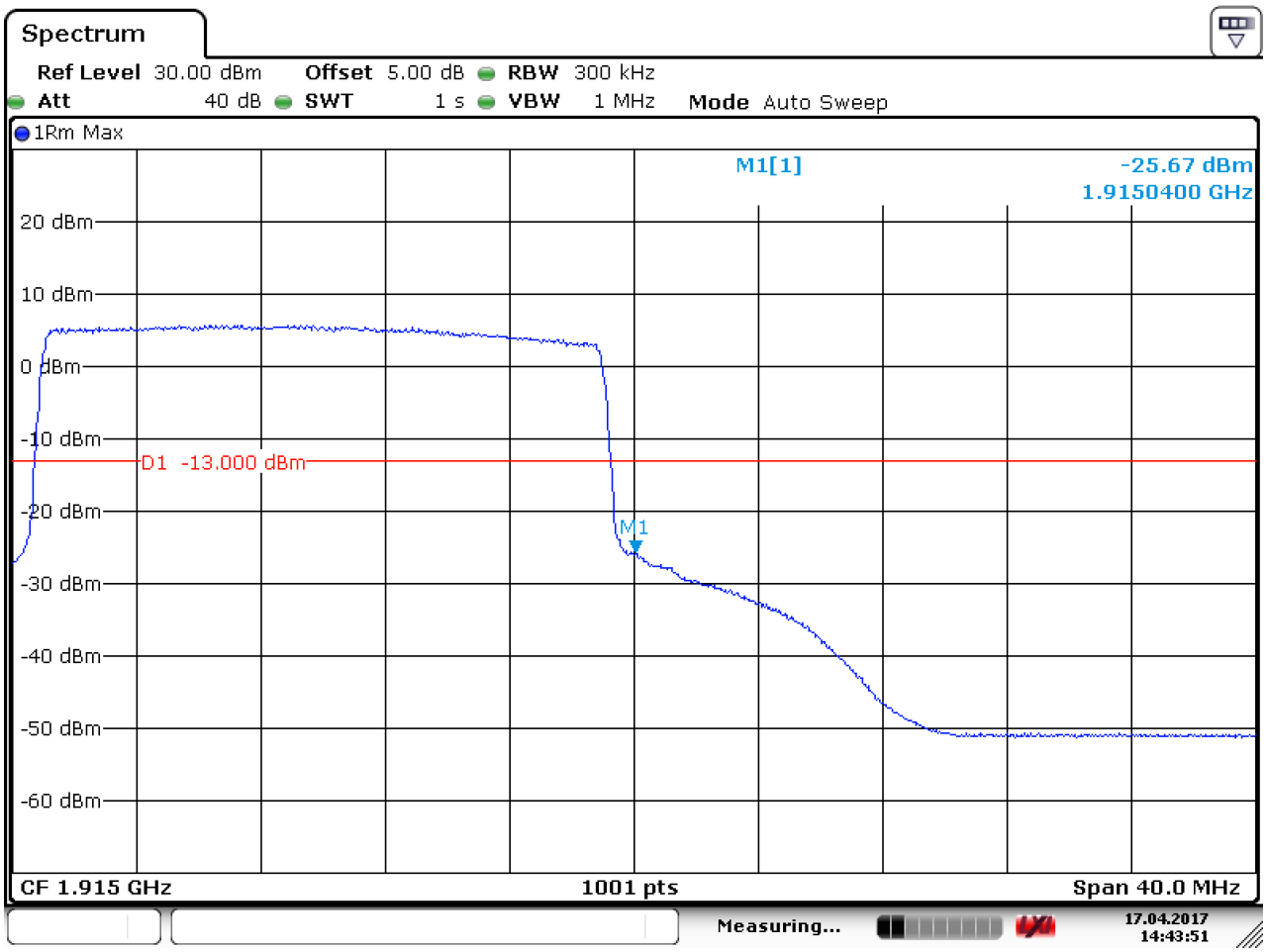
5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



Date: 17.APR.2017 14:44:35

5.1.1.11.2.2 Test RB=100RB

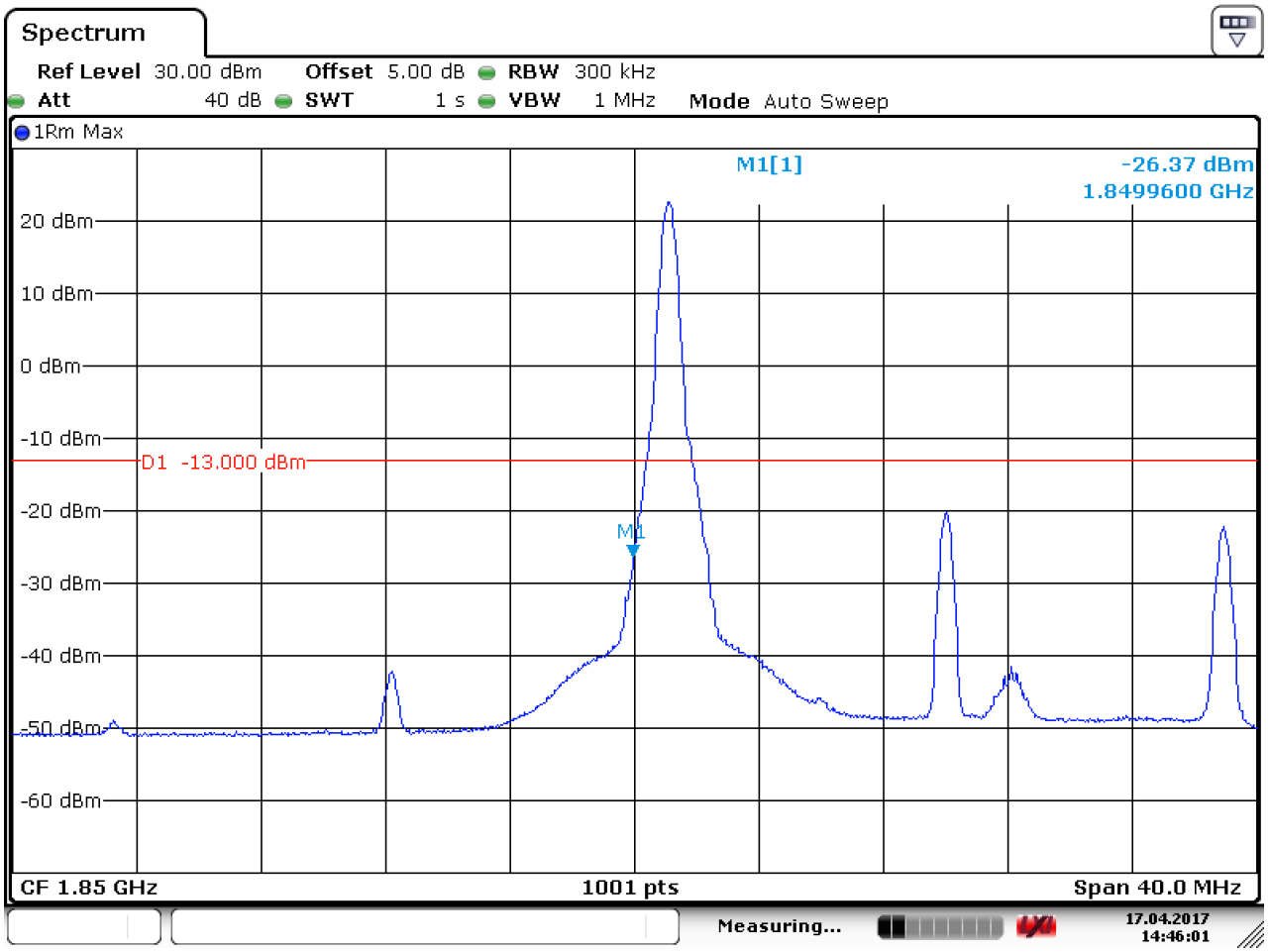


Date: 17.APR.2017 14:43:51

5.1.1.12 Test Mode = LTE/TM2 20MHz

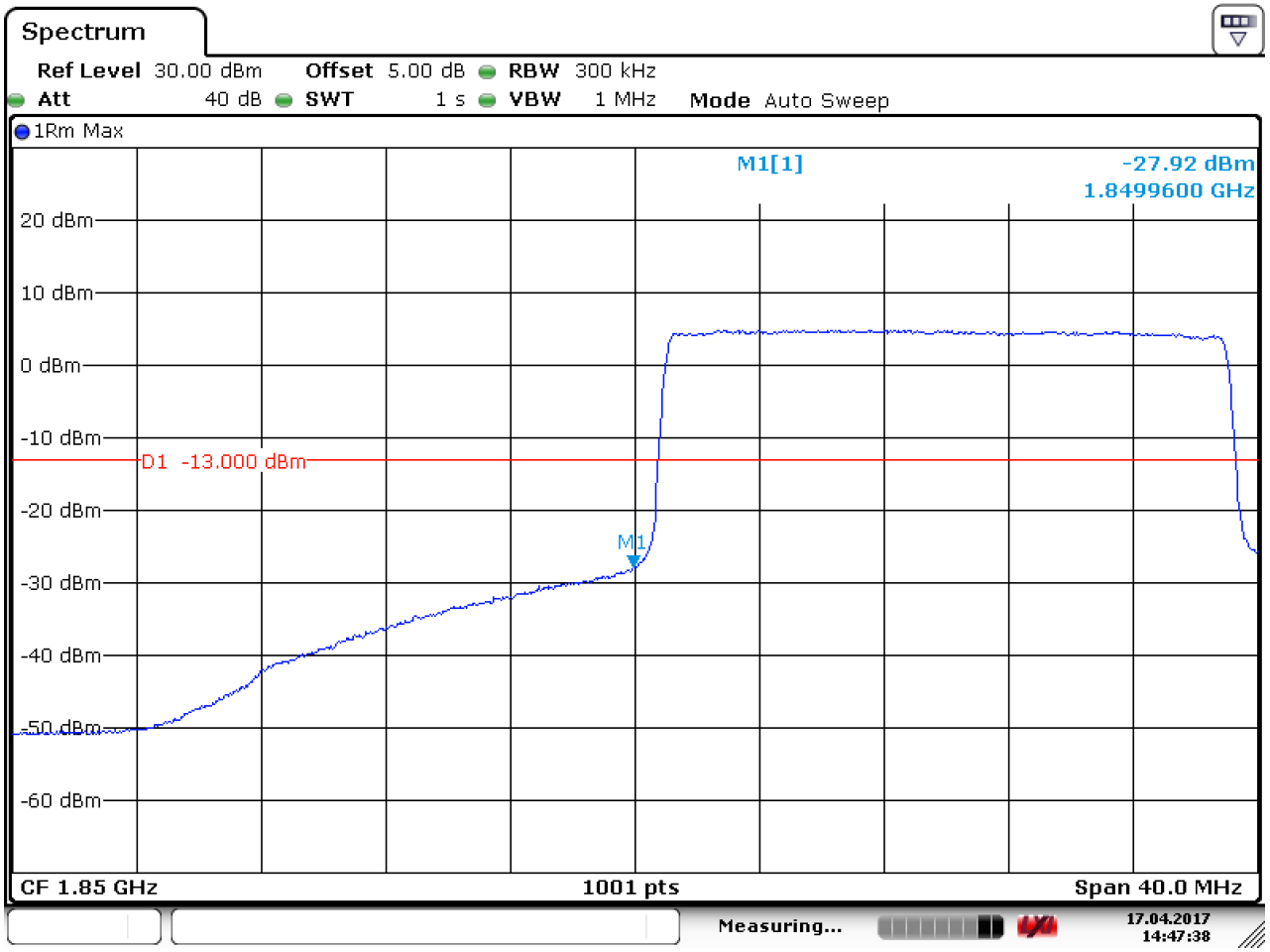
5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



Date: 17.APR.2017 14:46:01

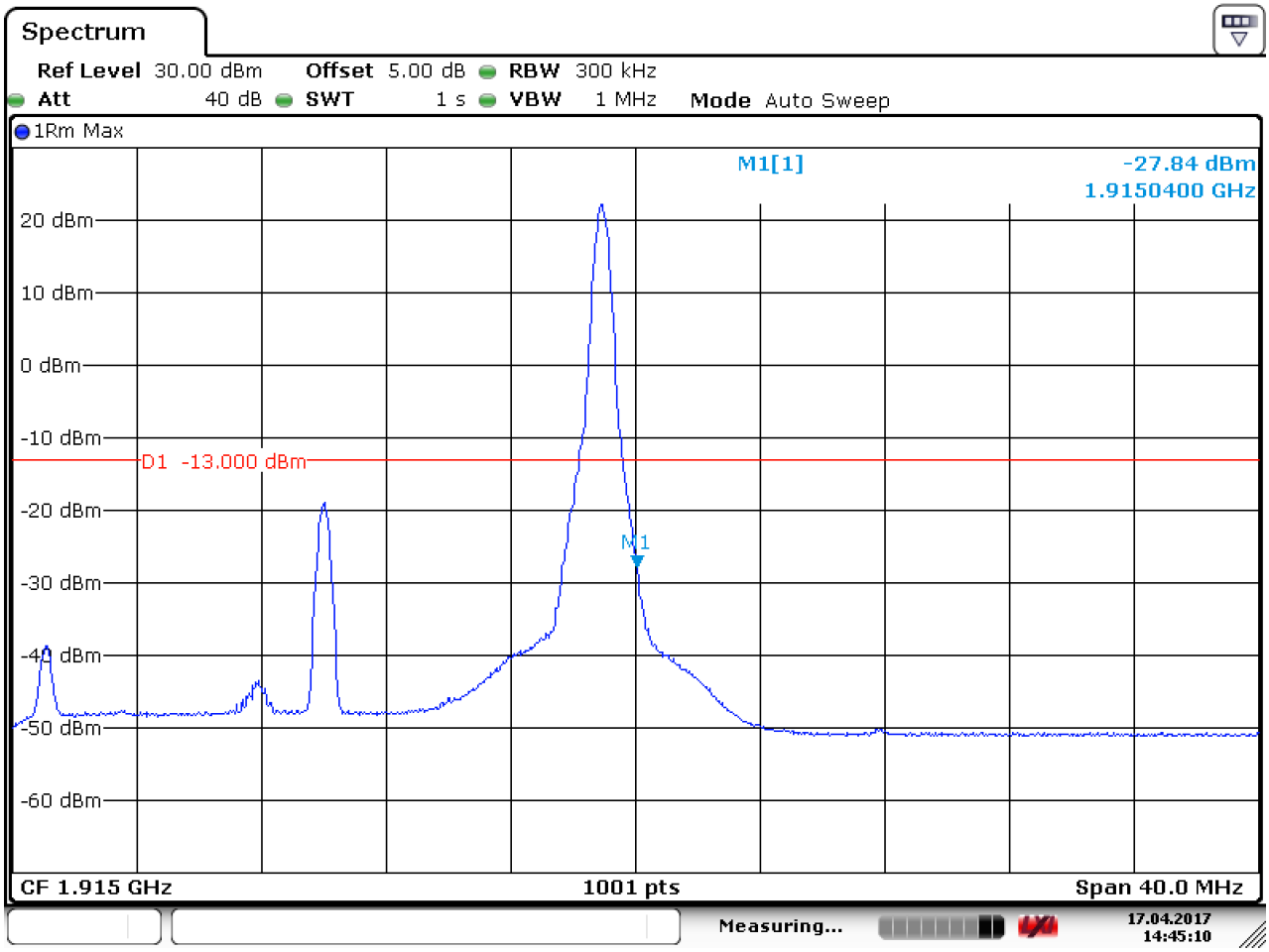
5.1.1.12.1.2 Test RB=100RB



Date: 17.APR.2017 14:47:39

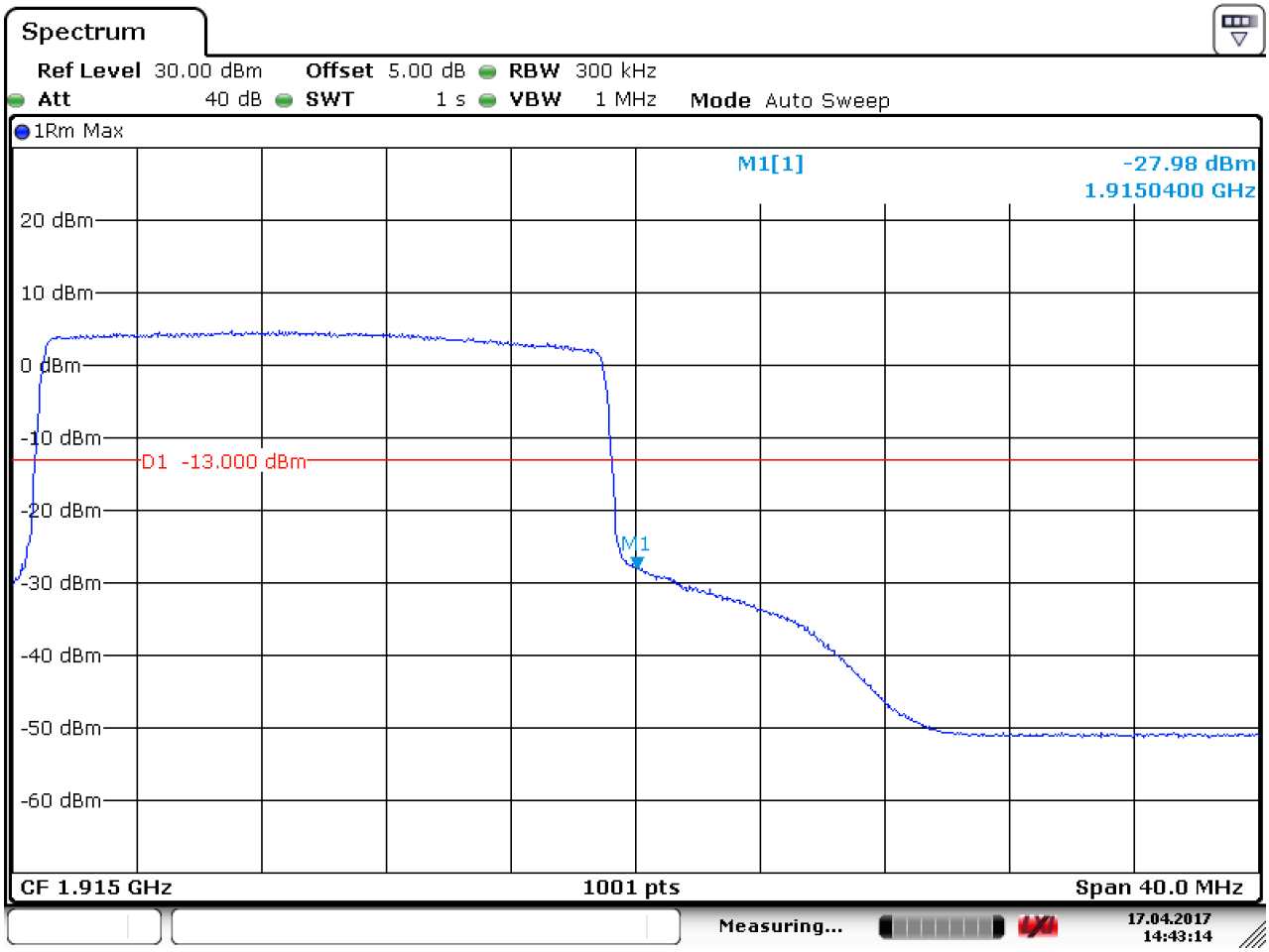
5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



Date: 17.APR.2017 14:45:10

5.1.1.12.2.2 Test RB=100RB



Date: 17.APR.2017 14:43:14

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.

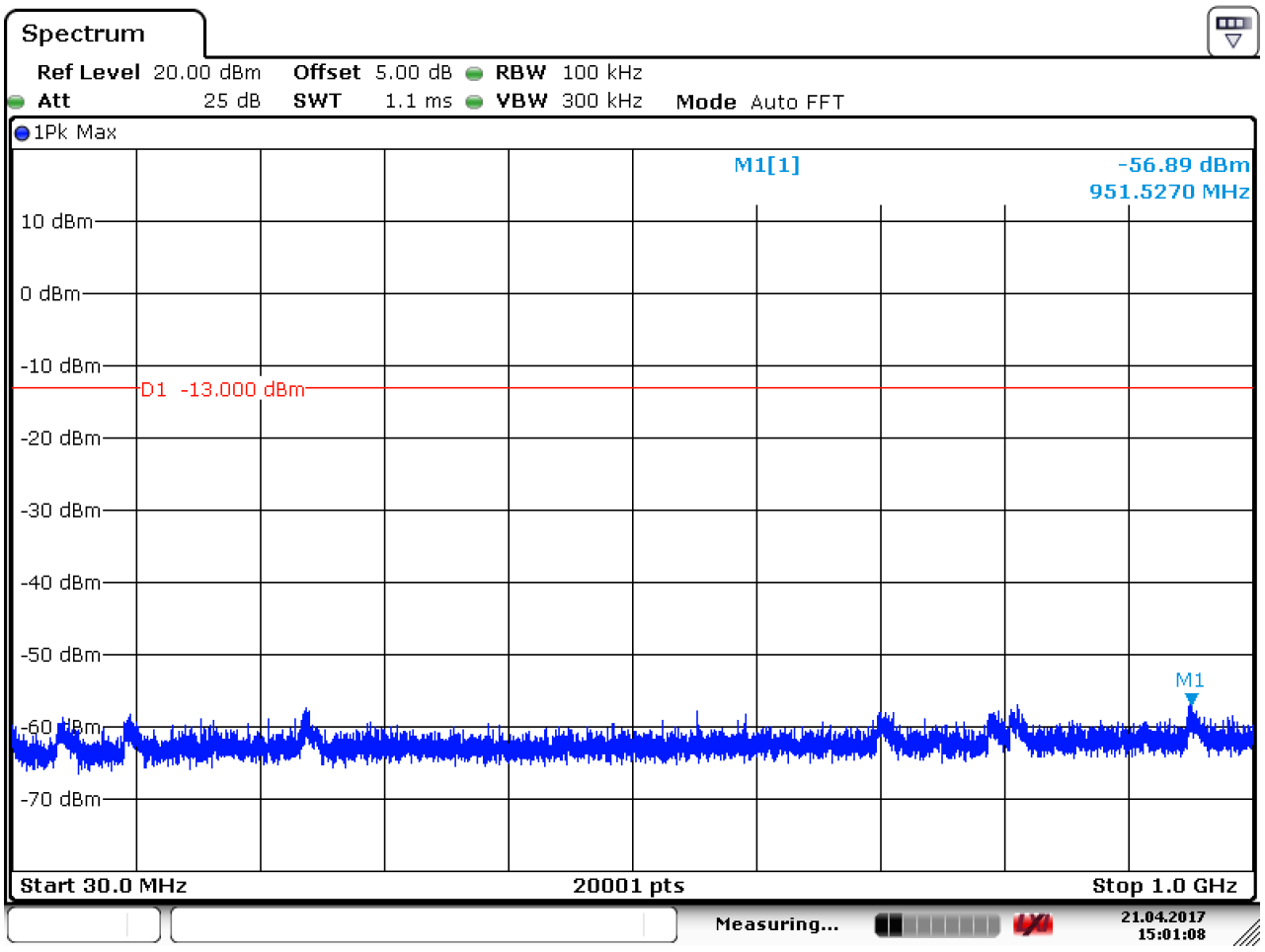
Part I - Test Plots

6.1 For LTE

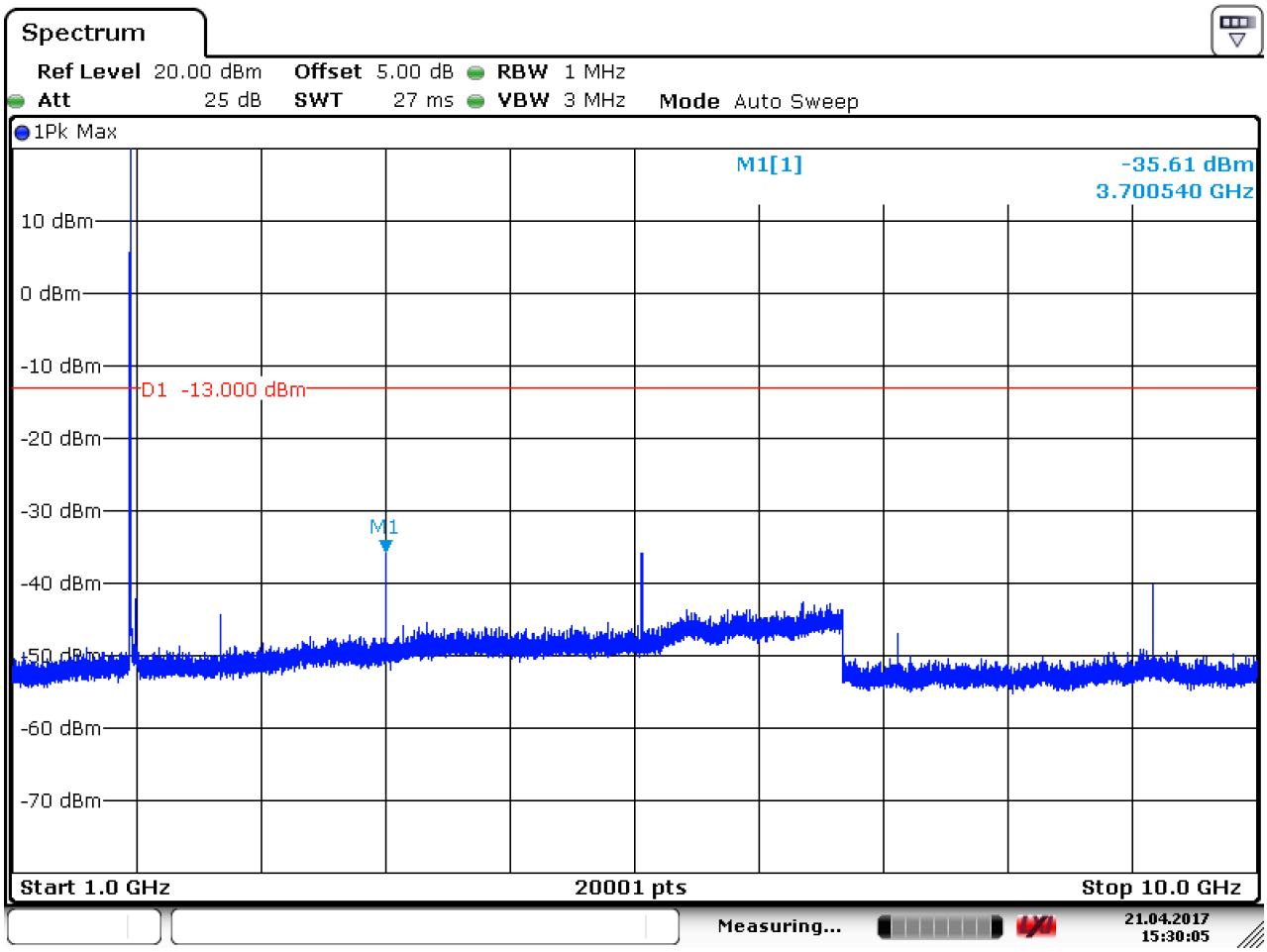
6.1.1 Test Band = LTE band25

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

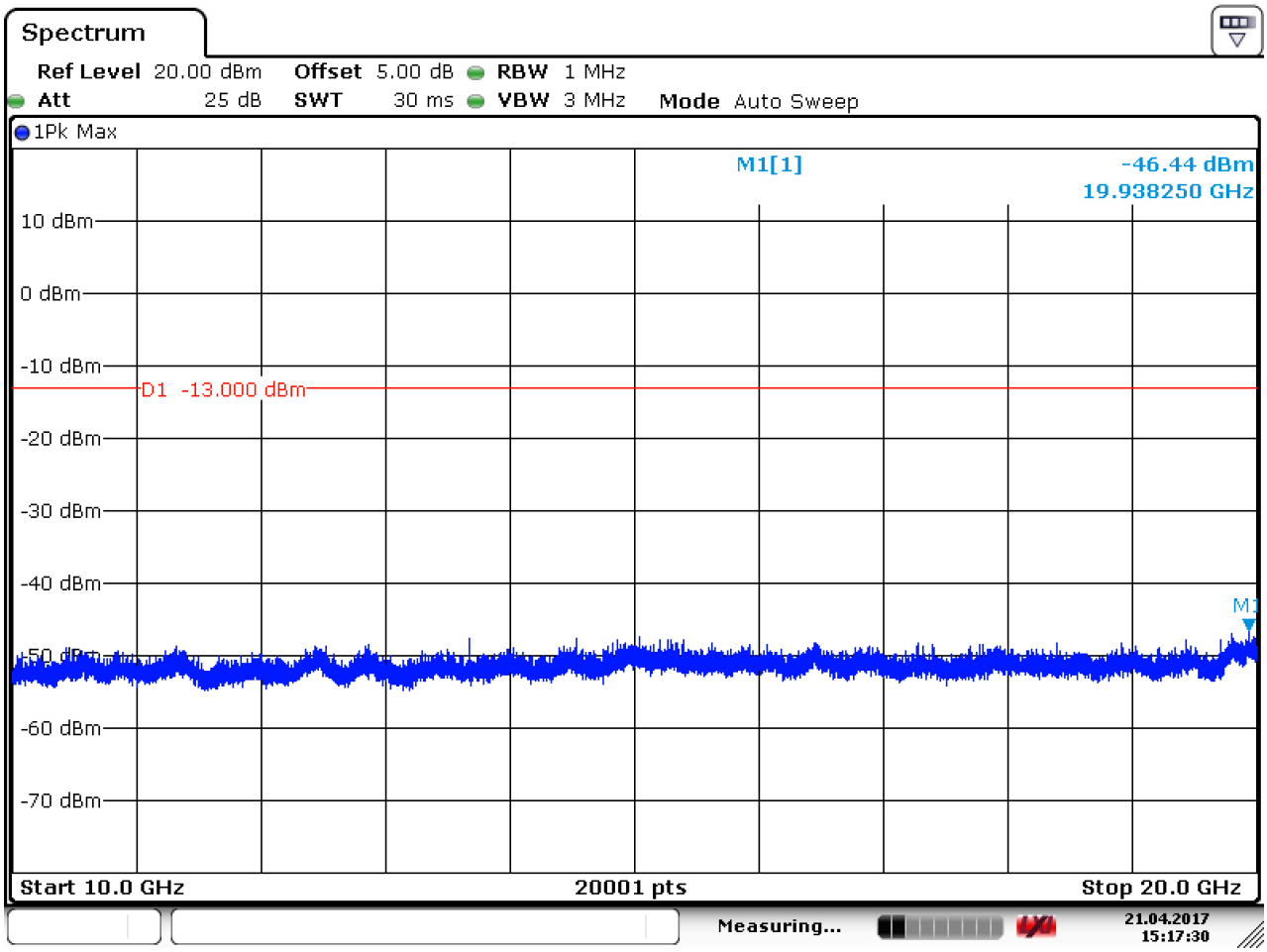
6.1.1.1.1 Test Channel = LCH



Date: 21.APR.2017 15:01:09

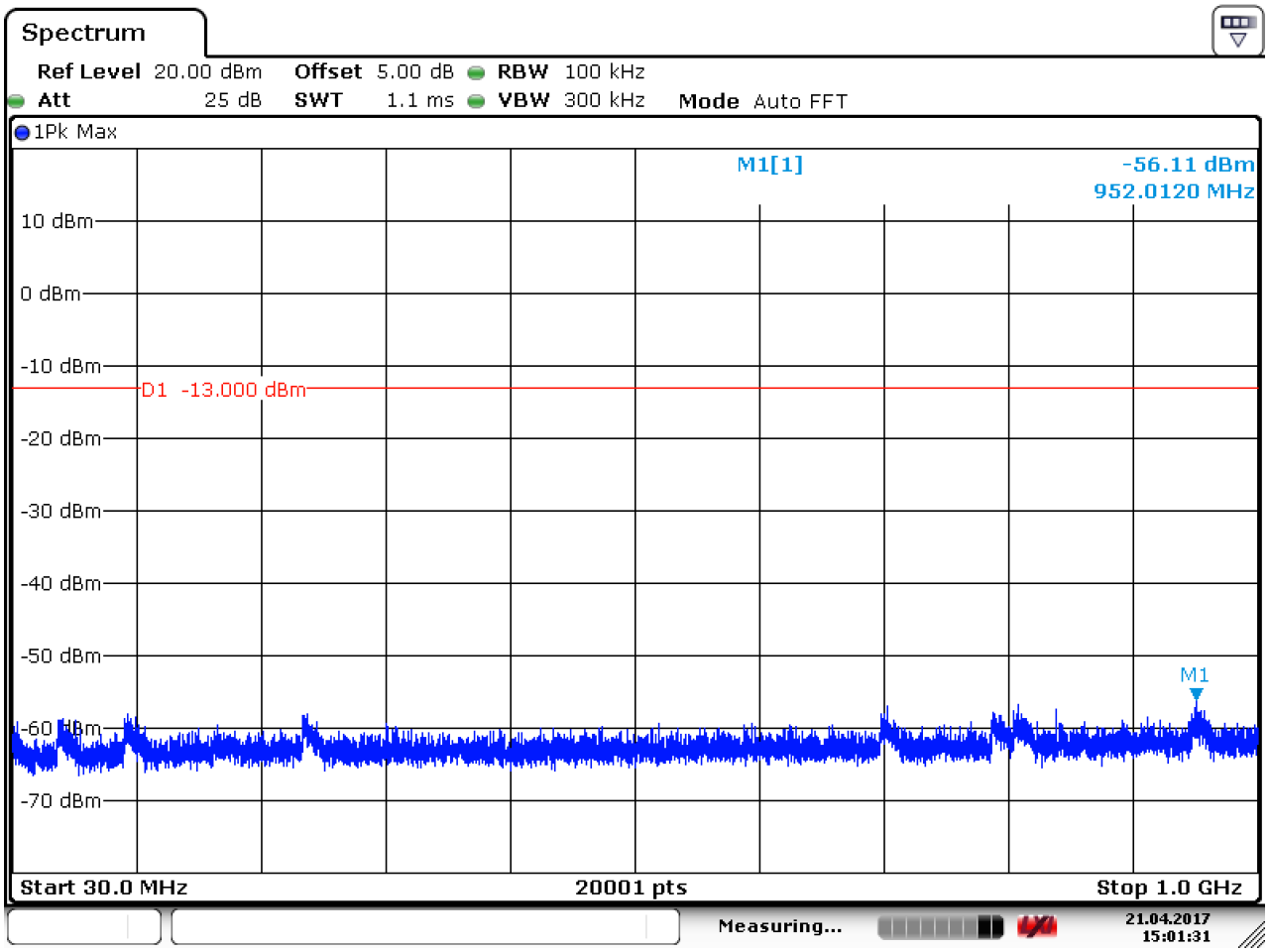


Date: 21.APR.2017 15:30:05

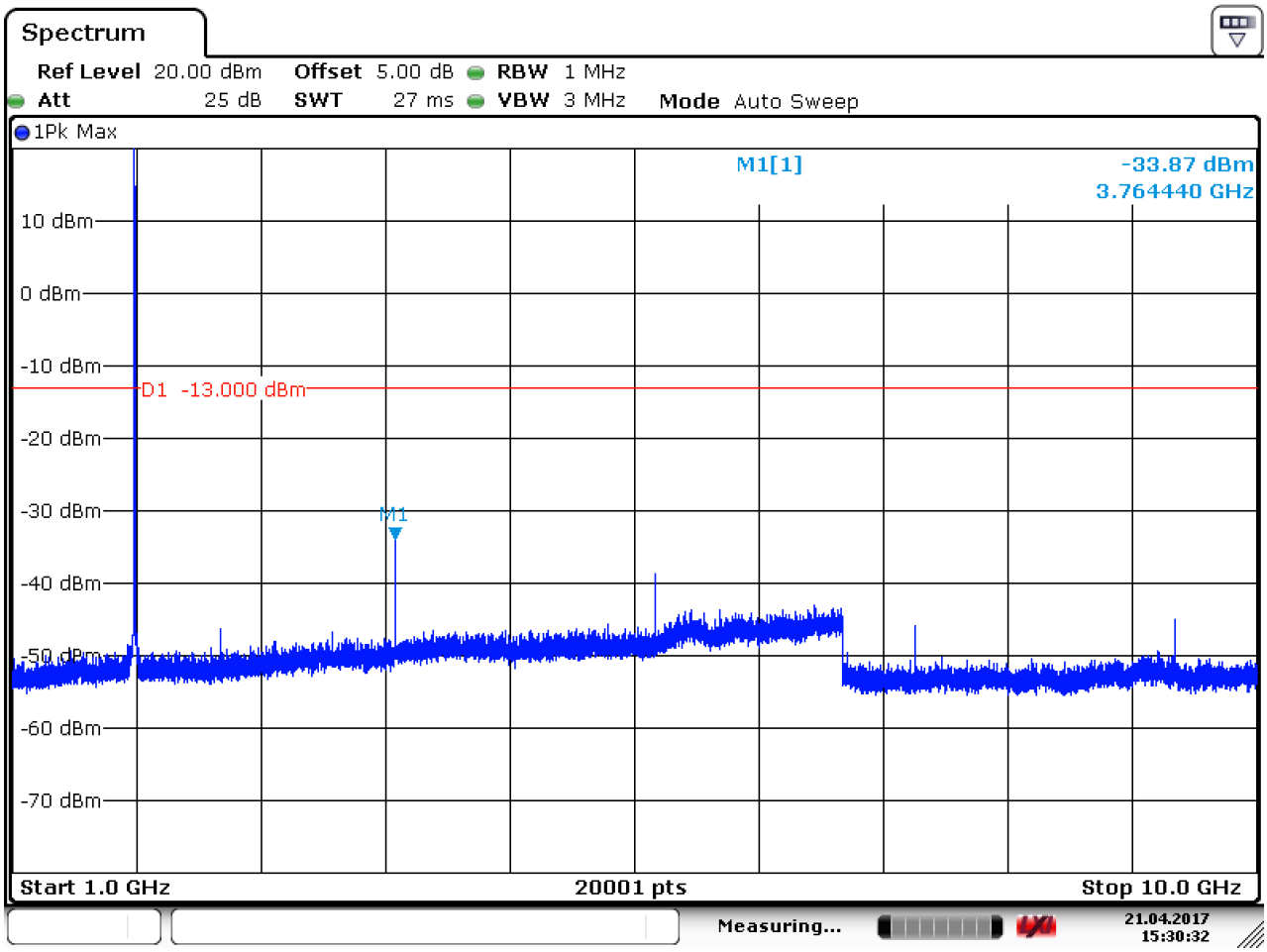


Date: 21.APR.2017 15:17:31

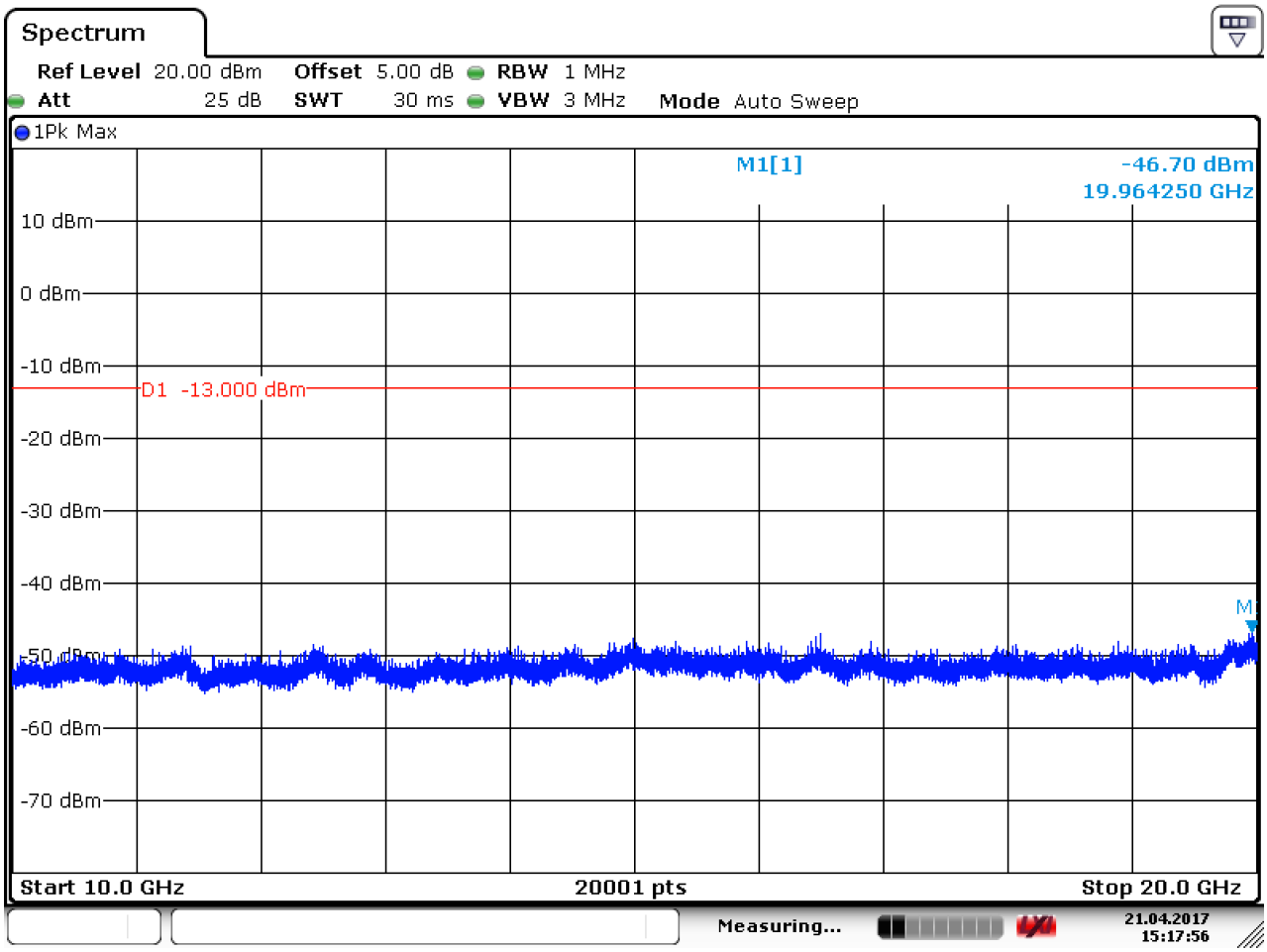
6.1.1.1.2 Test Channel = MCH



Date: 21.APR.2017 15:01:31

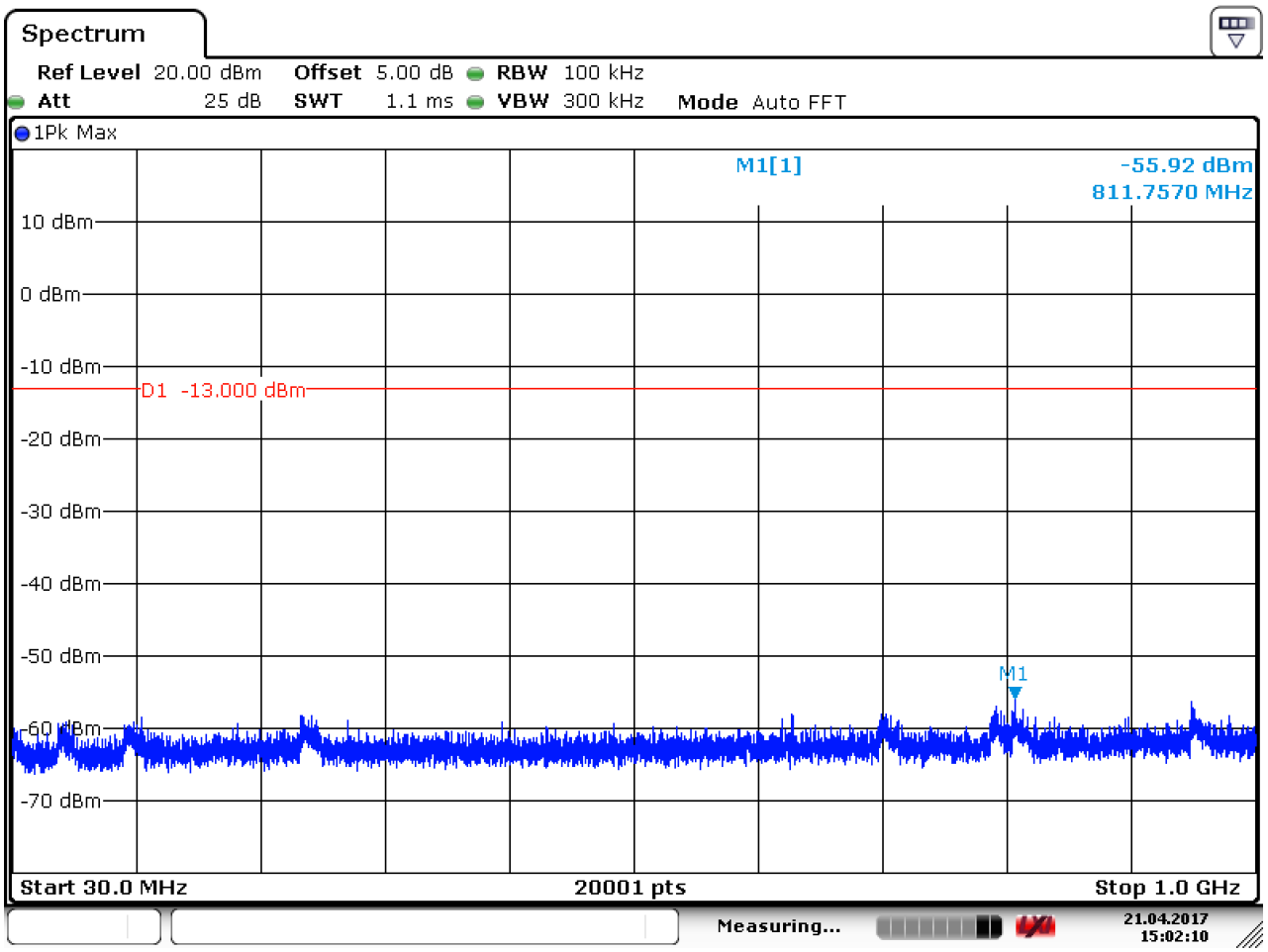


Date: 21.APR.2017 15:30:32

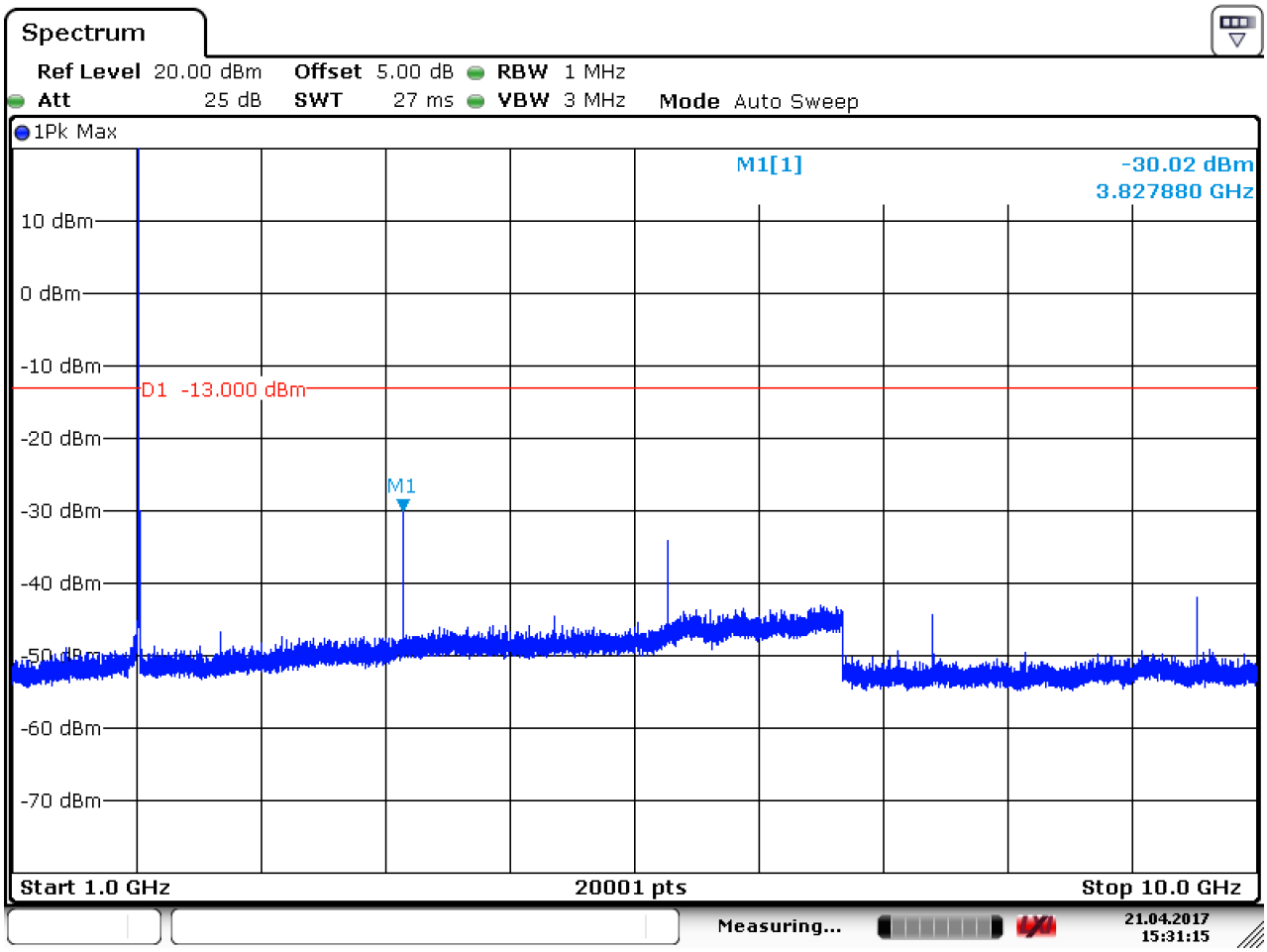


Date: 21.APR.2017 15:17:57

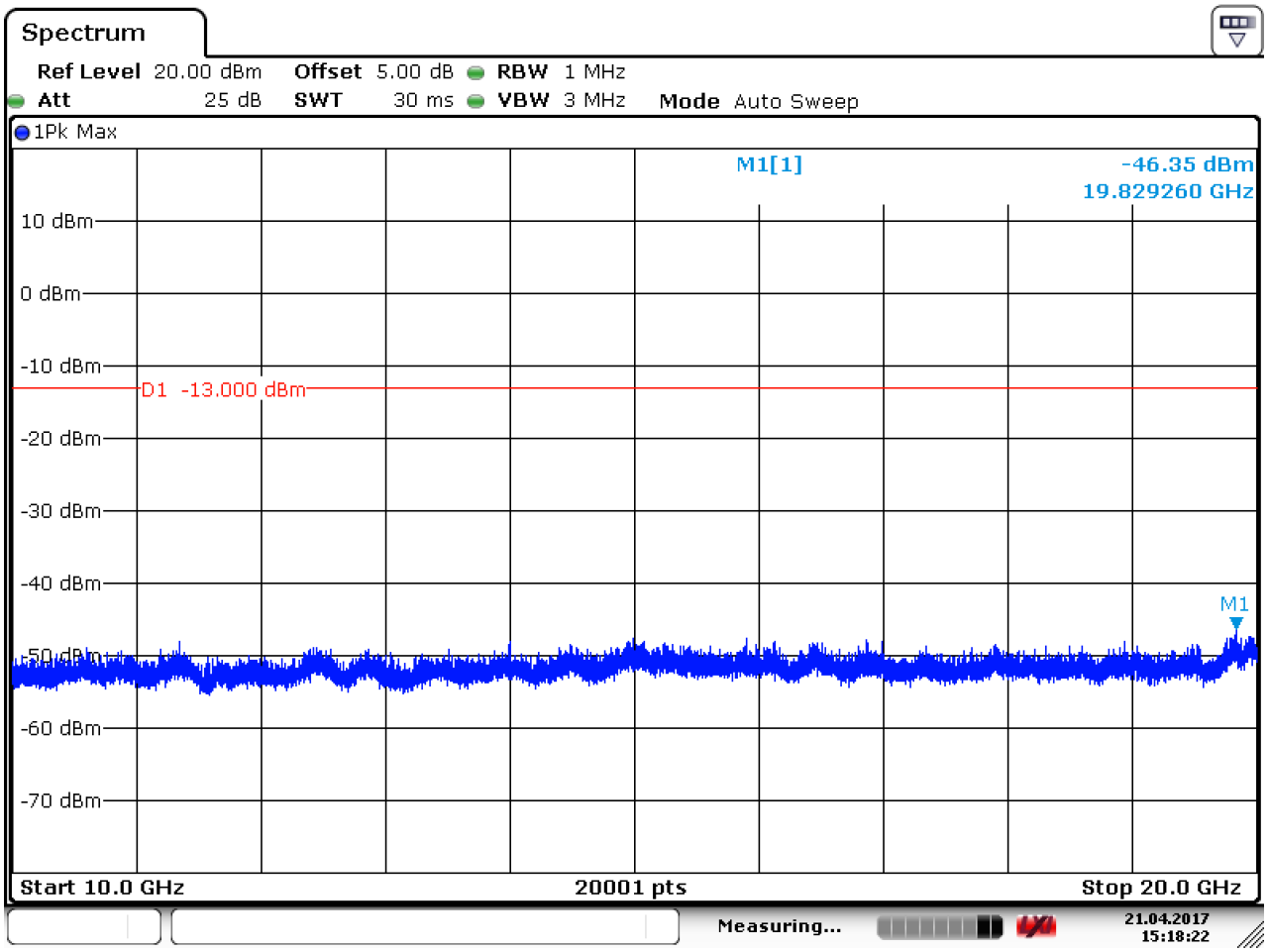
6.1.1.1.3 Test Channel = HCH



Date: 21.APR.2017 15:02:11



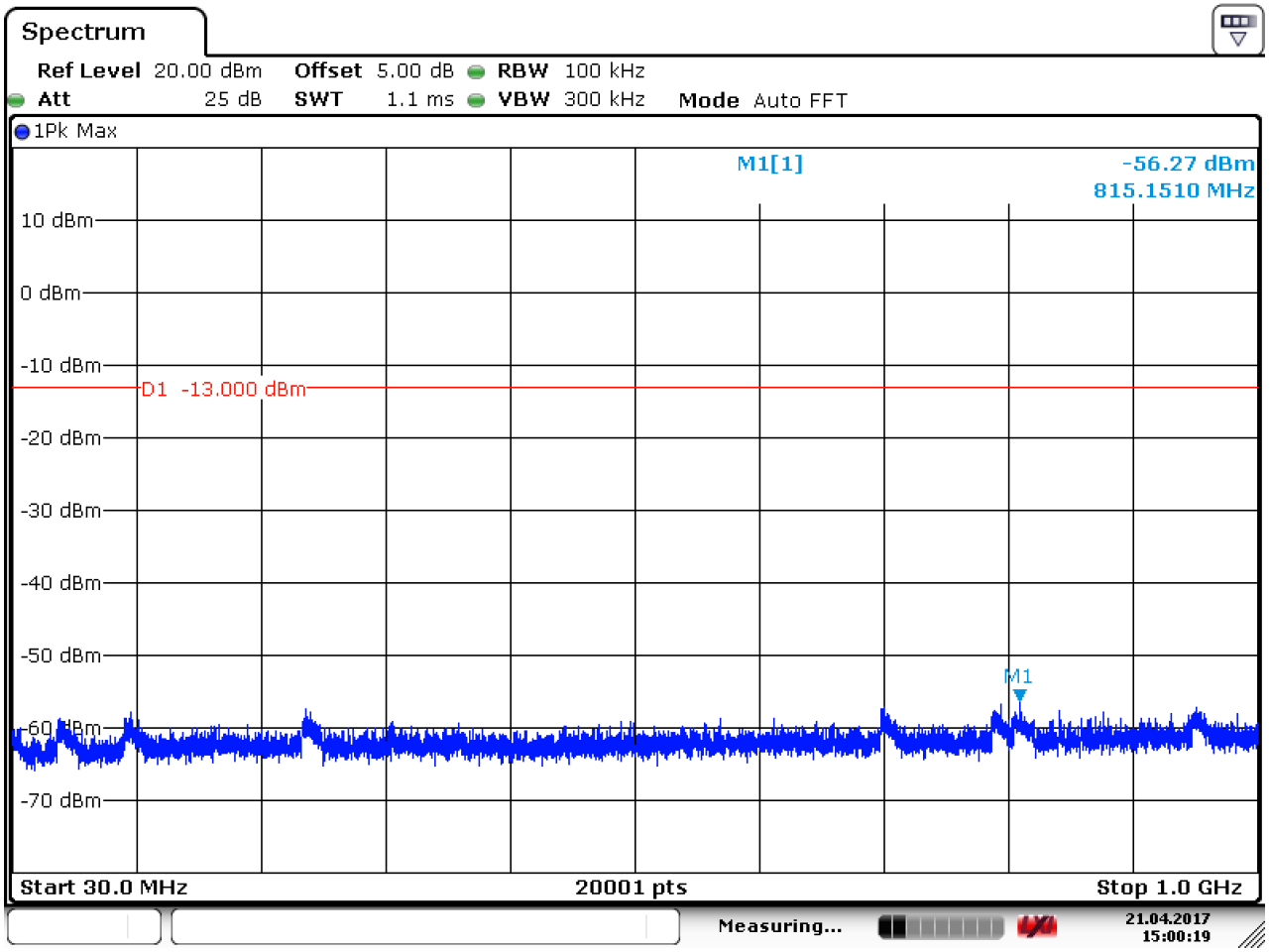
Date: 21.APR.2017 15:31:15



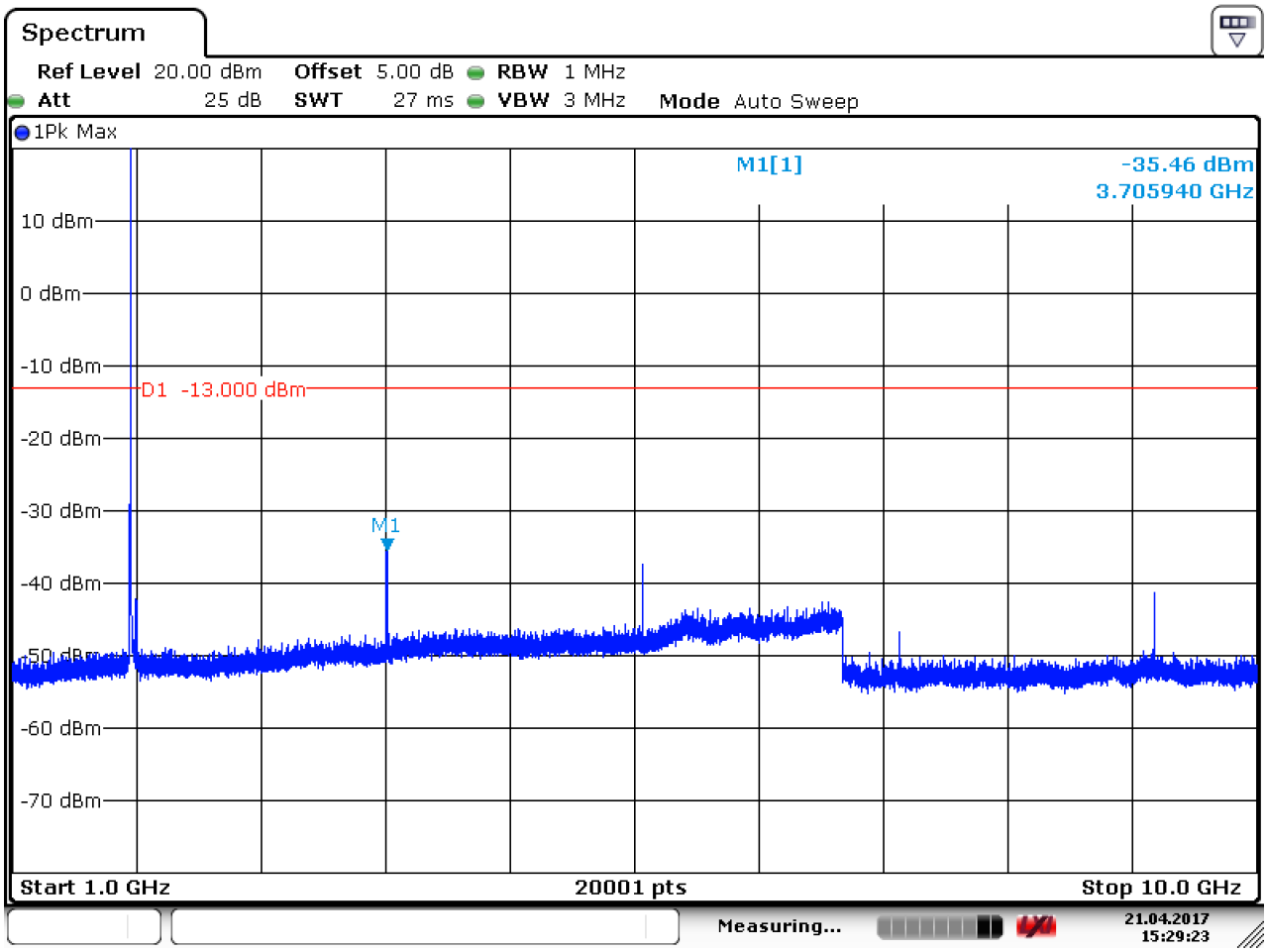
Date: 21.APR.2017 15:18:22

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

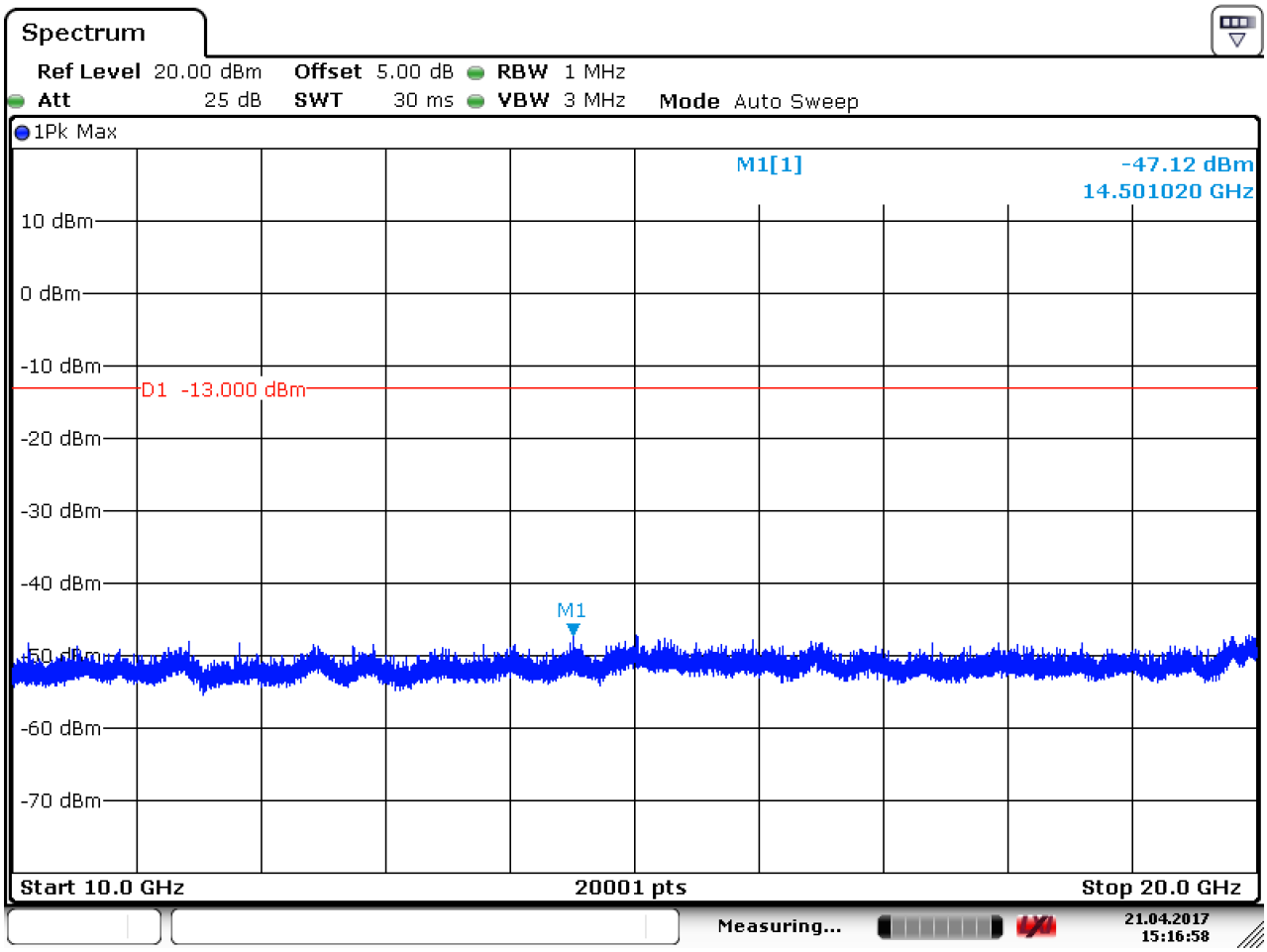
6.1.1.2.1 Test Channel = LCH



Date: 21.APR.2017 15:00:19

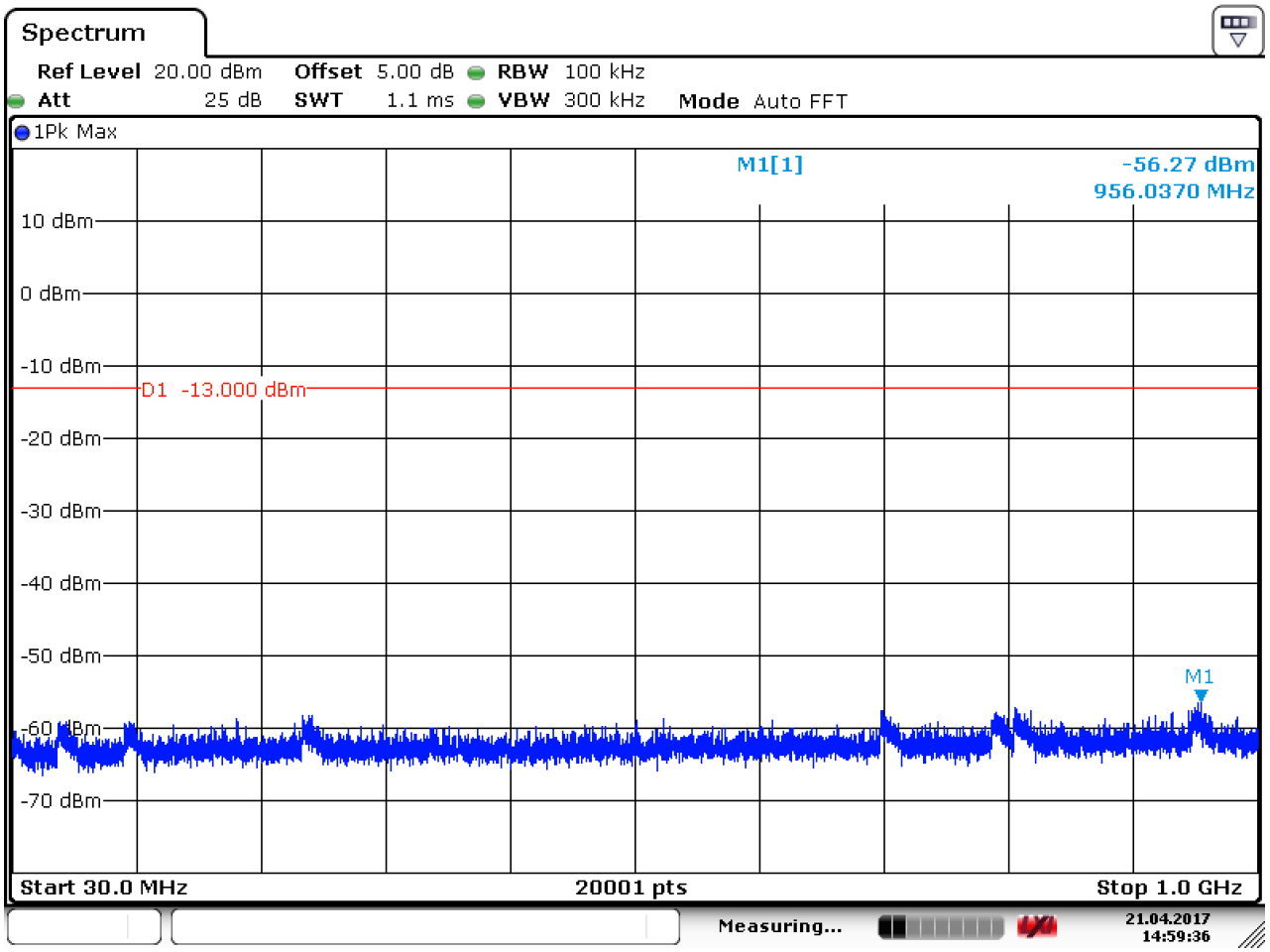


Date: 21.APR.2017 15:29:23

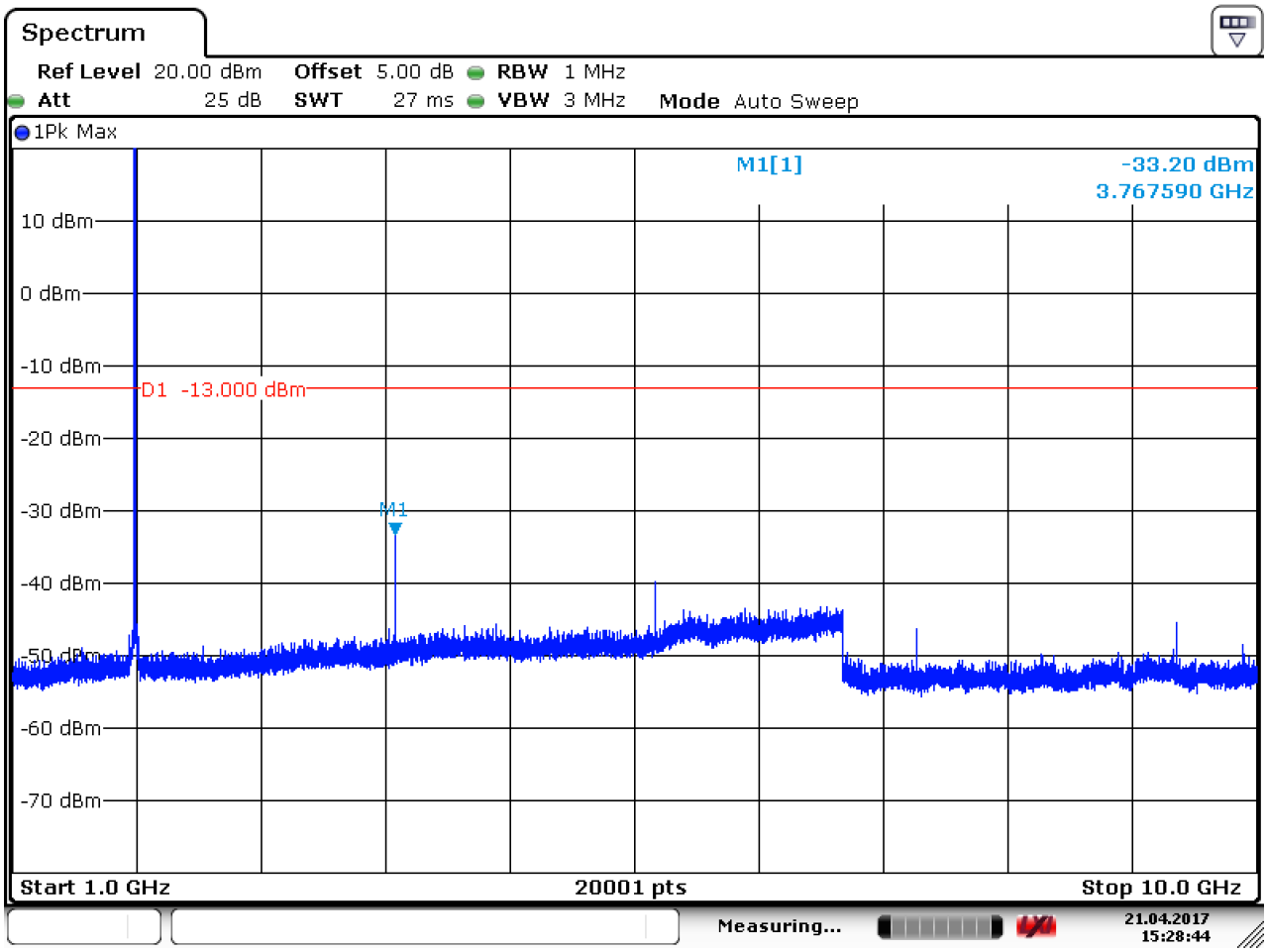


Date: 21.APR.2017 15:16:58

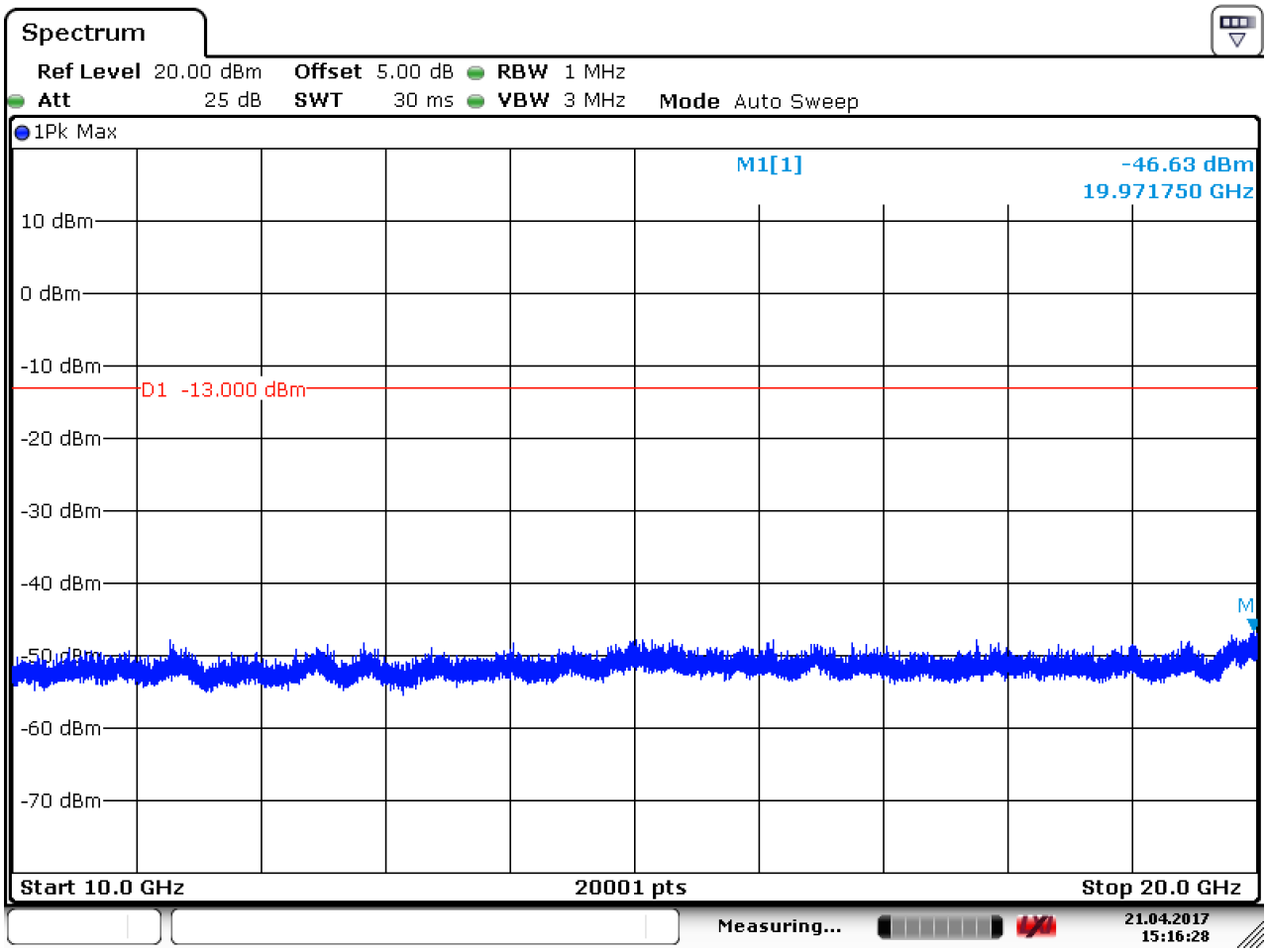
6.1.1.2.2 Test Channel = MCH



Date: 21.APR.2017 14:59:36

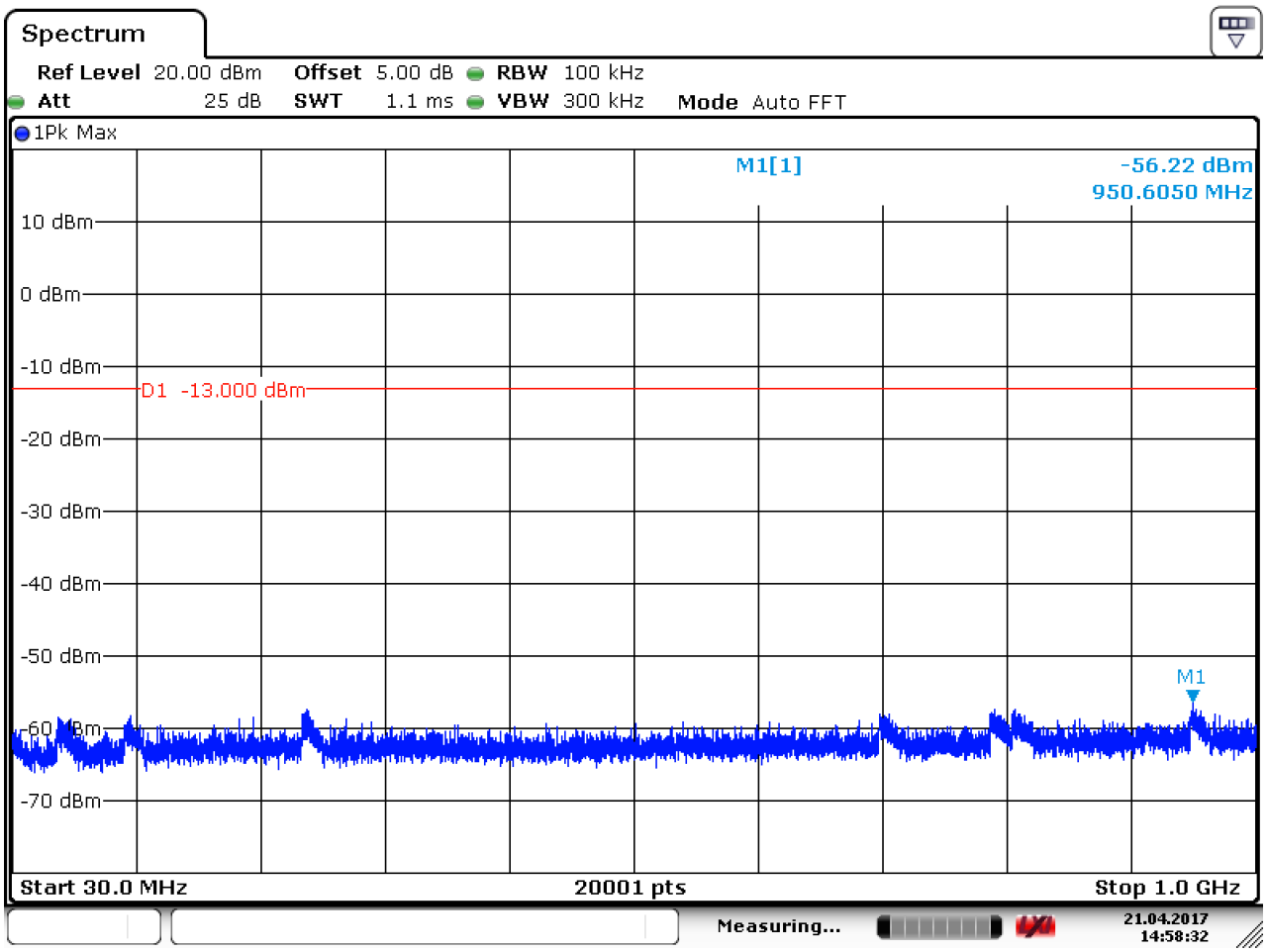


Date: 21.APR.2017 15:28:44

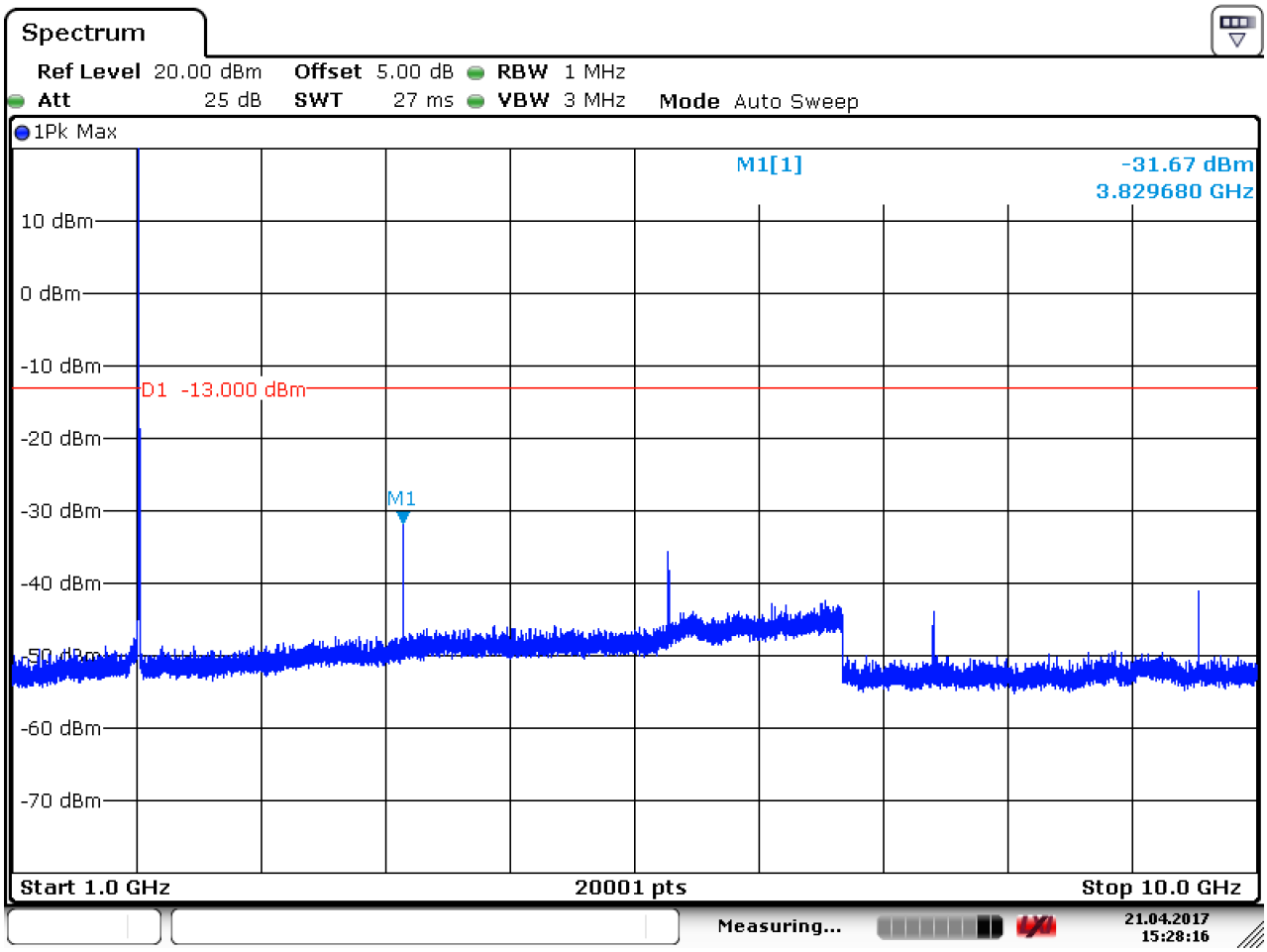


Date: 21.APR.2017 15:16:29

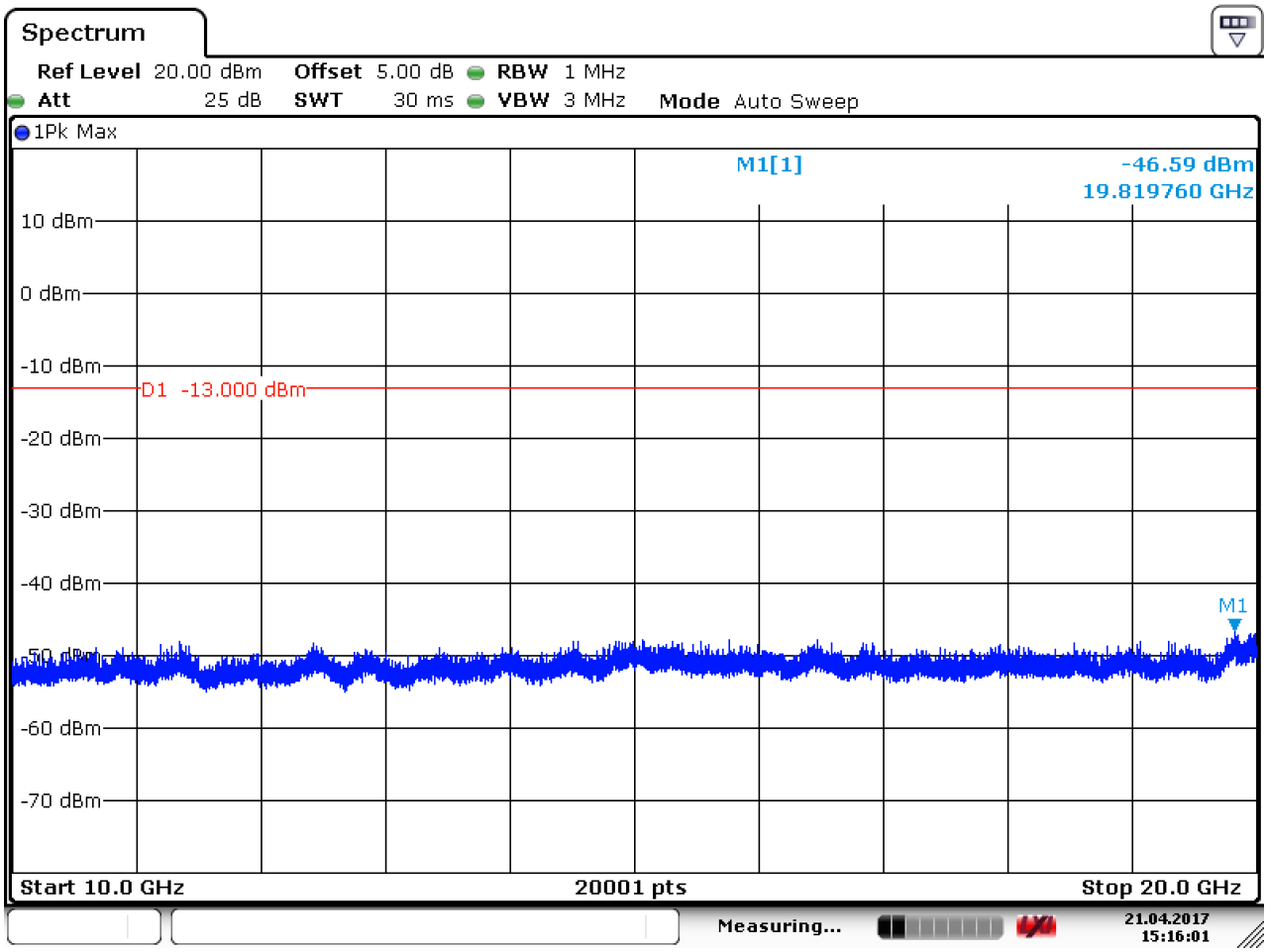
6.1.1.2.3 Test Channel = HCH



Date: 21.APR.2017 14:58:33



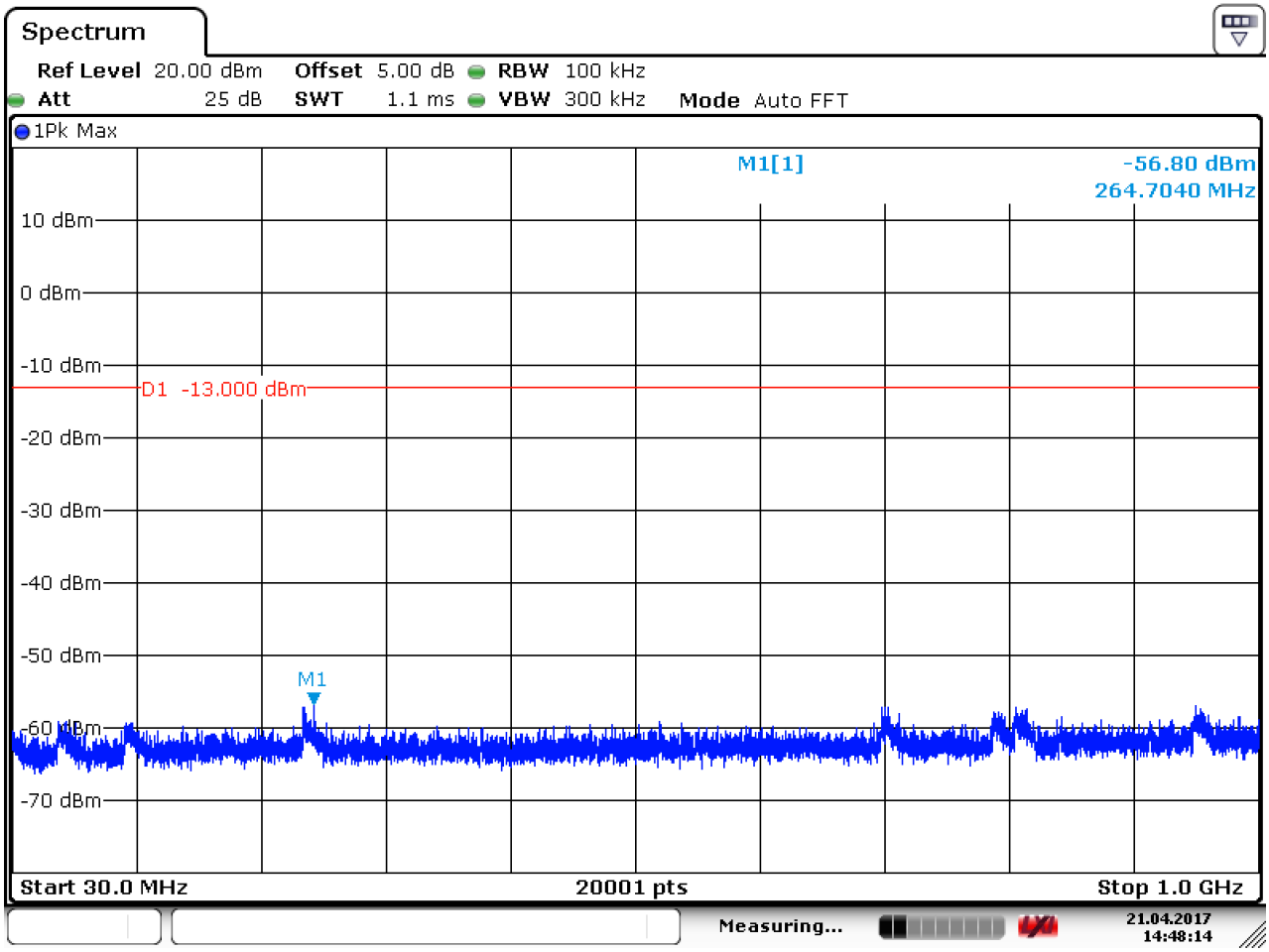
Date: 21.APR.2017 15:28:16



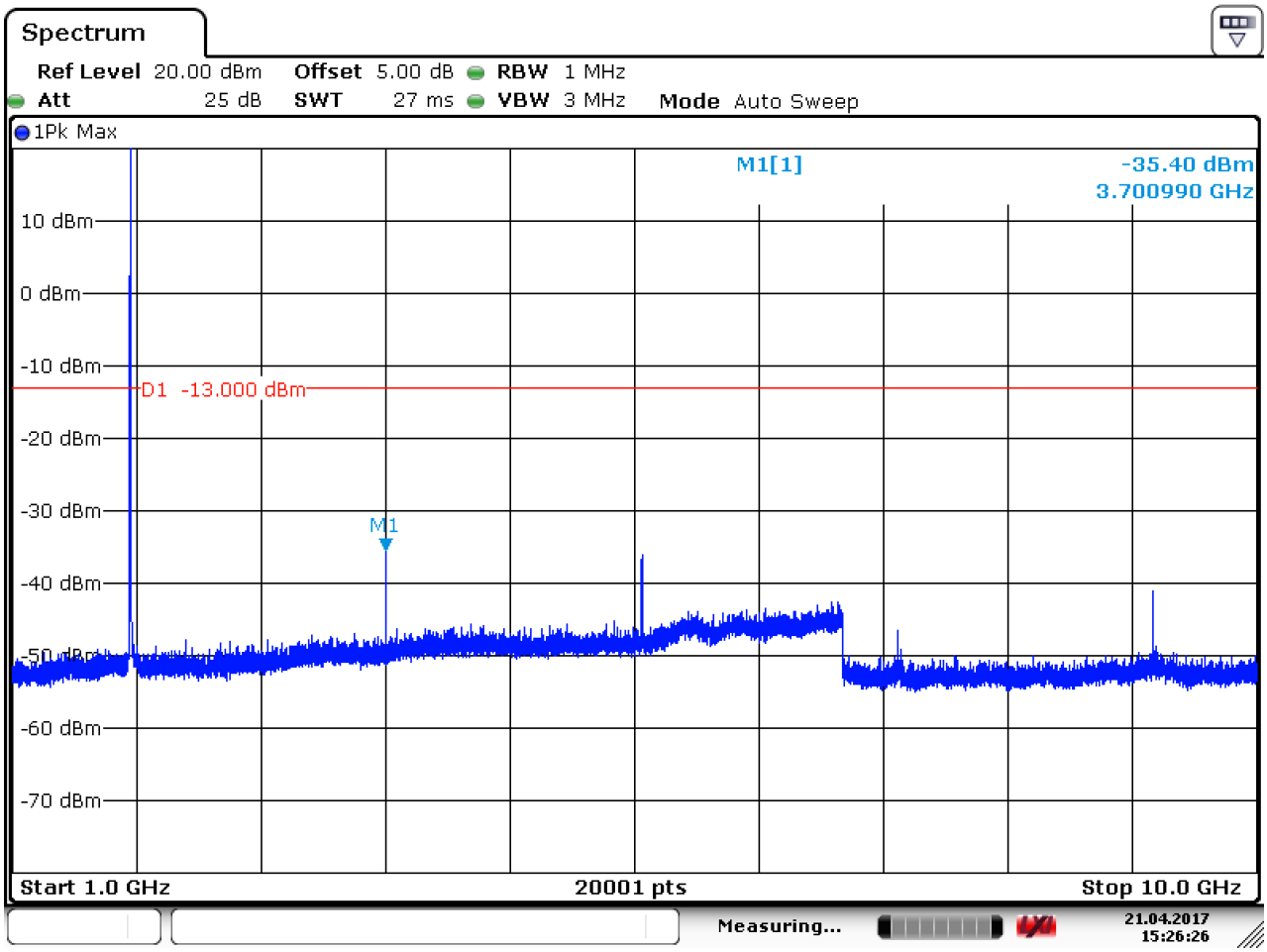
Date: 21.APR.2017 15:16:01

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

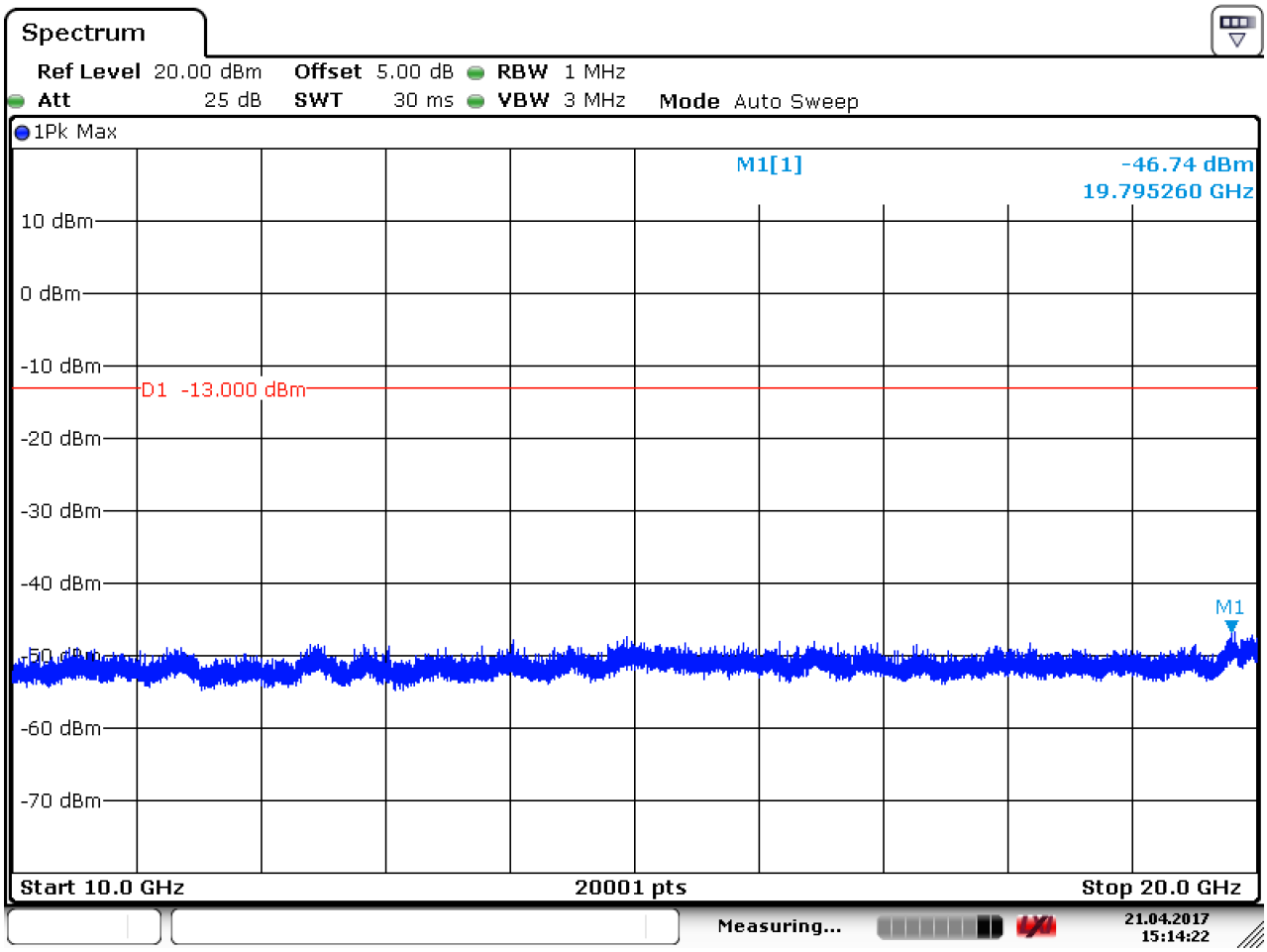
6.1.1.3.1 Test Channel = LCH



Date: 21.APR.2017 14:48:14

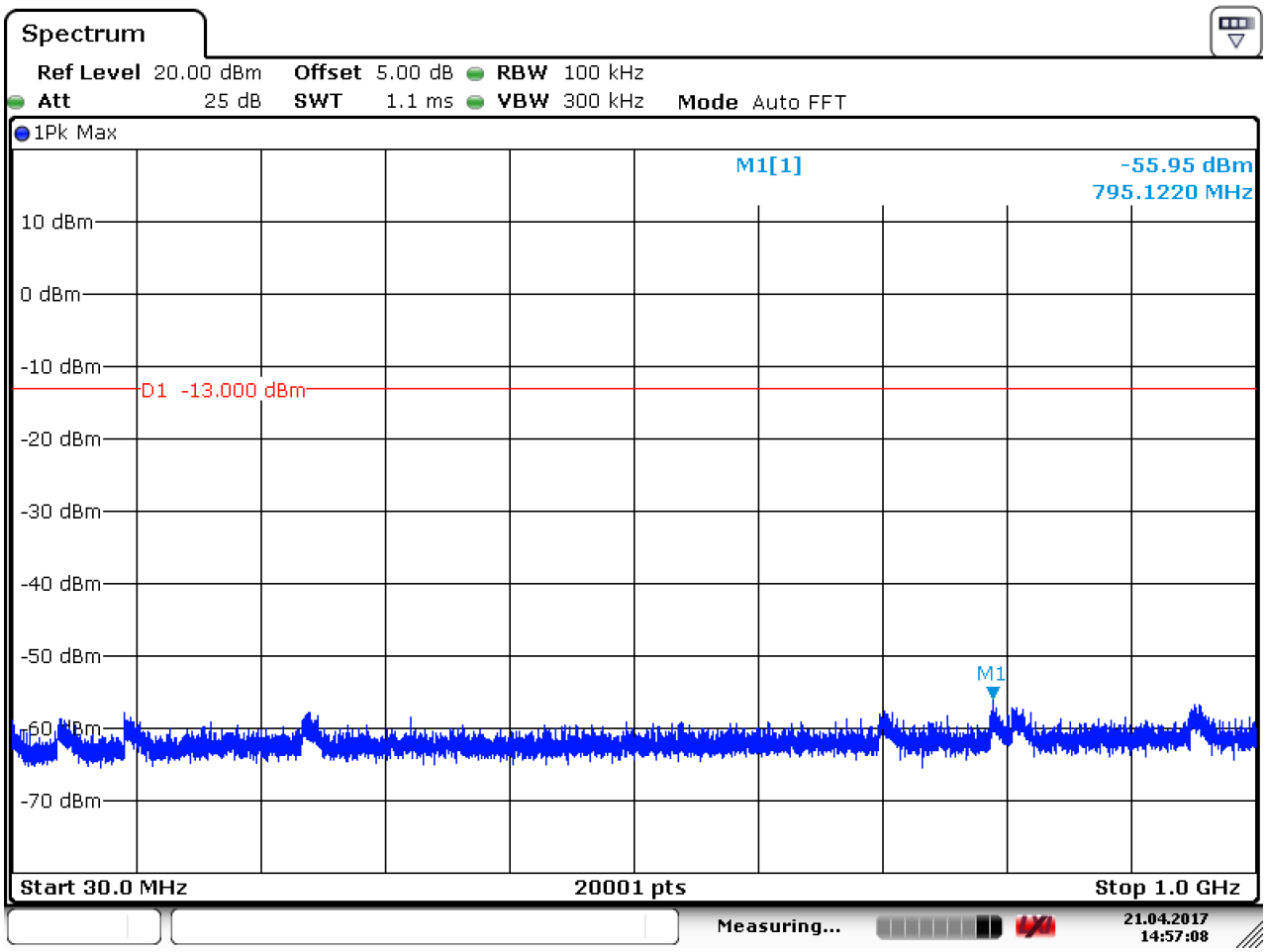


Date: 21.APR.2017 15:26:27

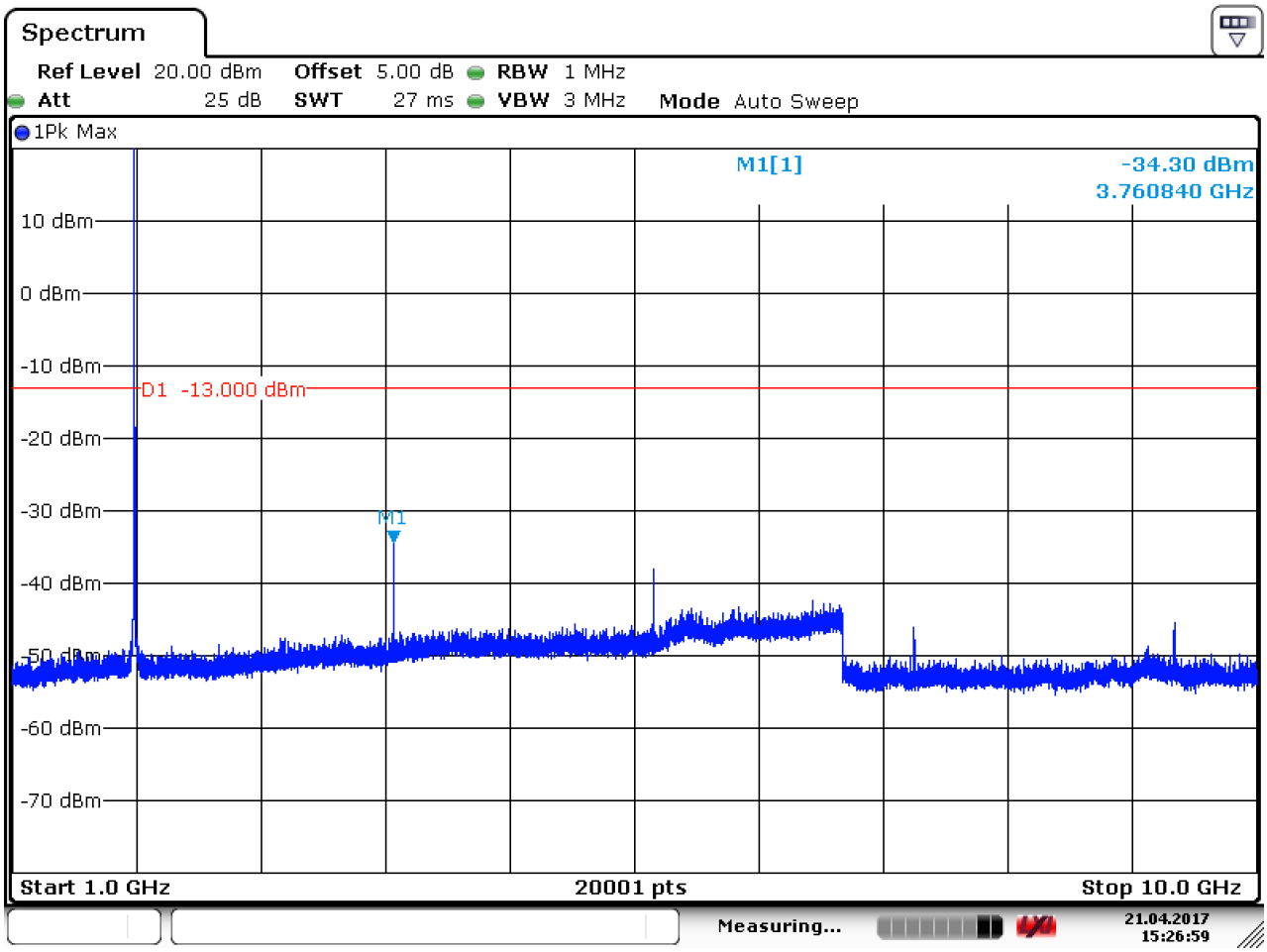


Date: 21.APR.2017 15:14:23

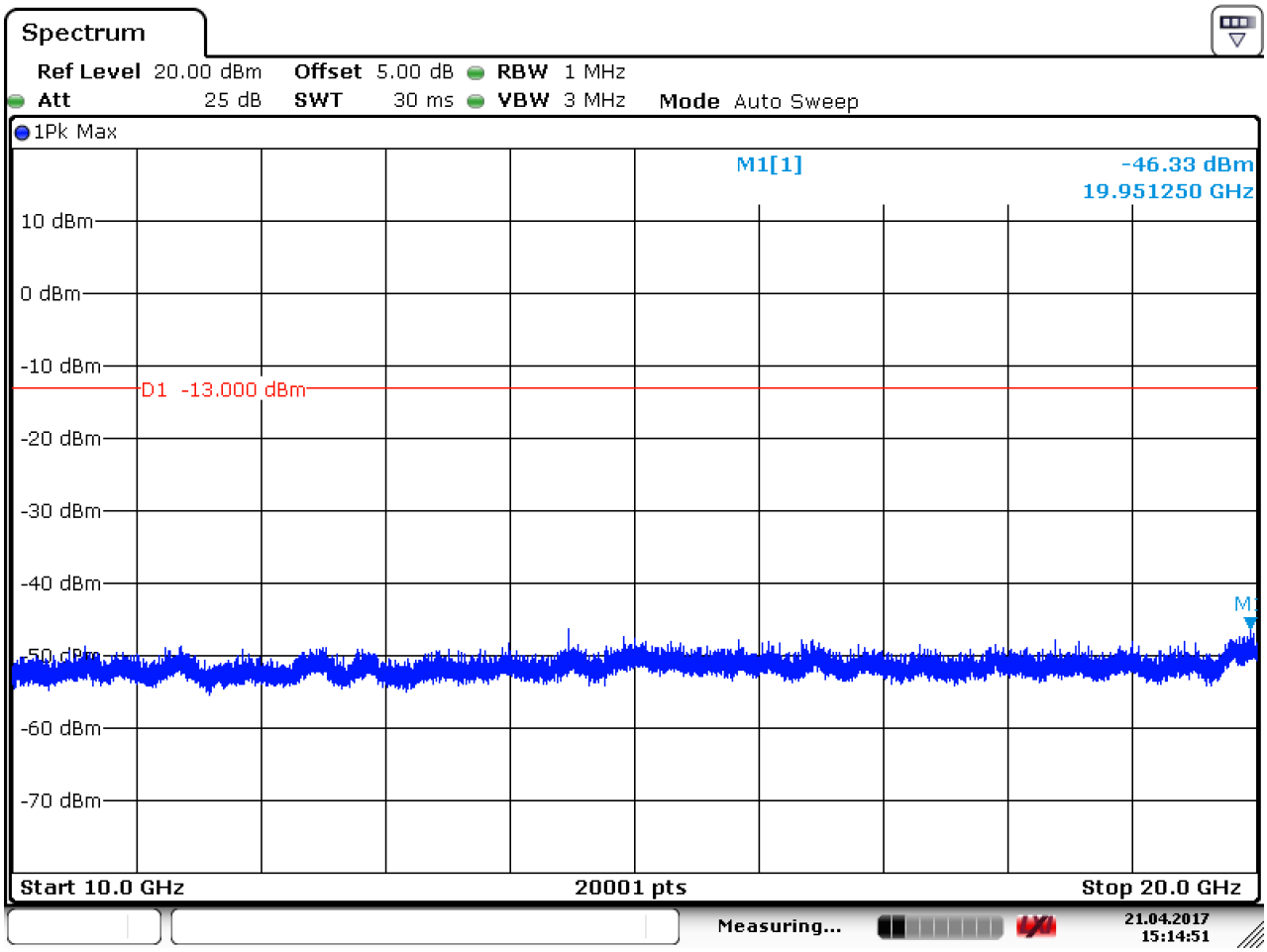
6.1.1.3.2 Test Channel = MCH



Date: 21.APR.2017 14:57:09

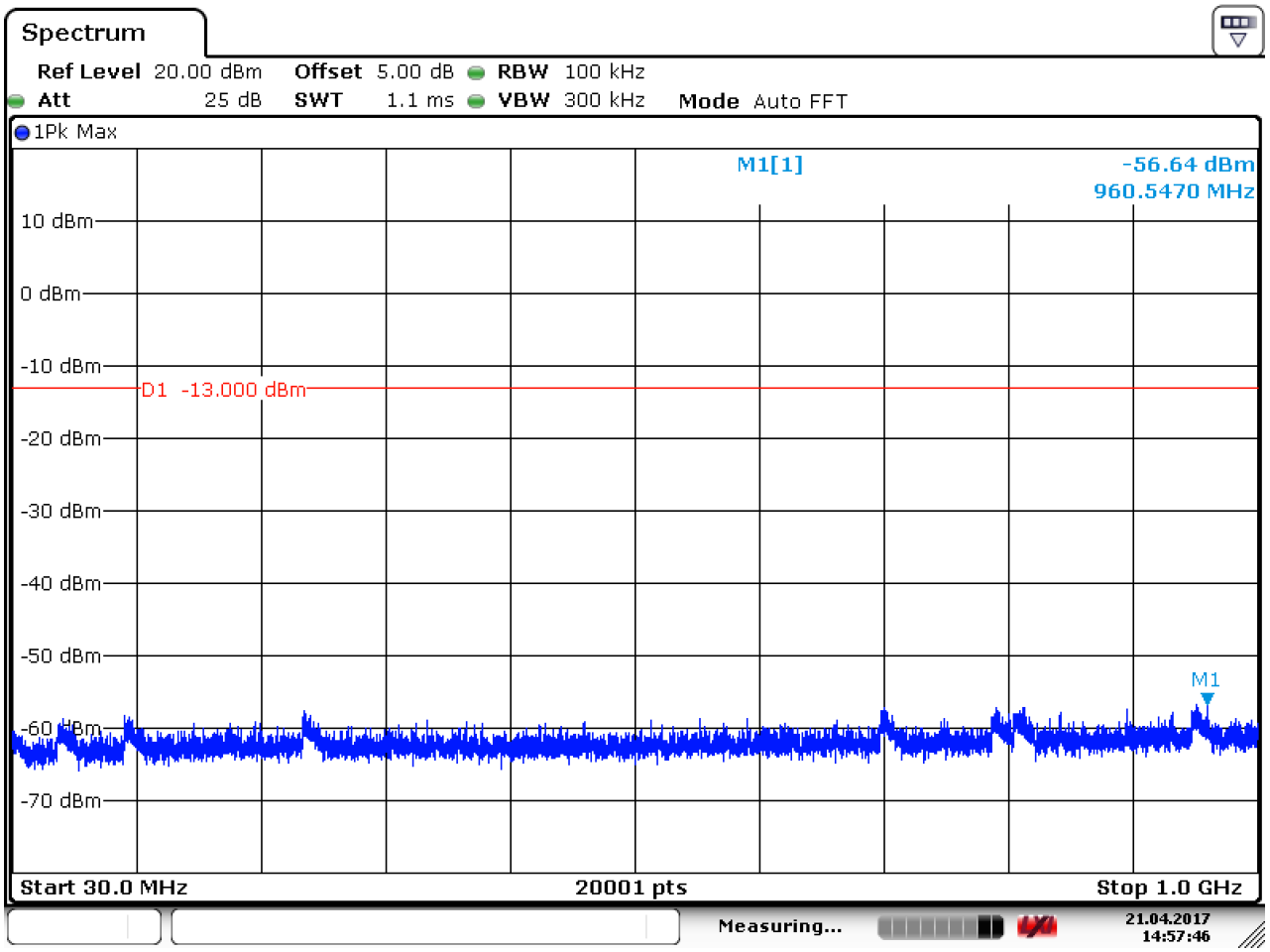


Date: 21.APR.2017 15:27:00

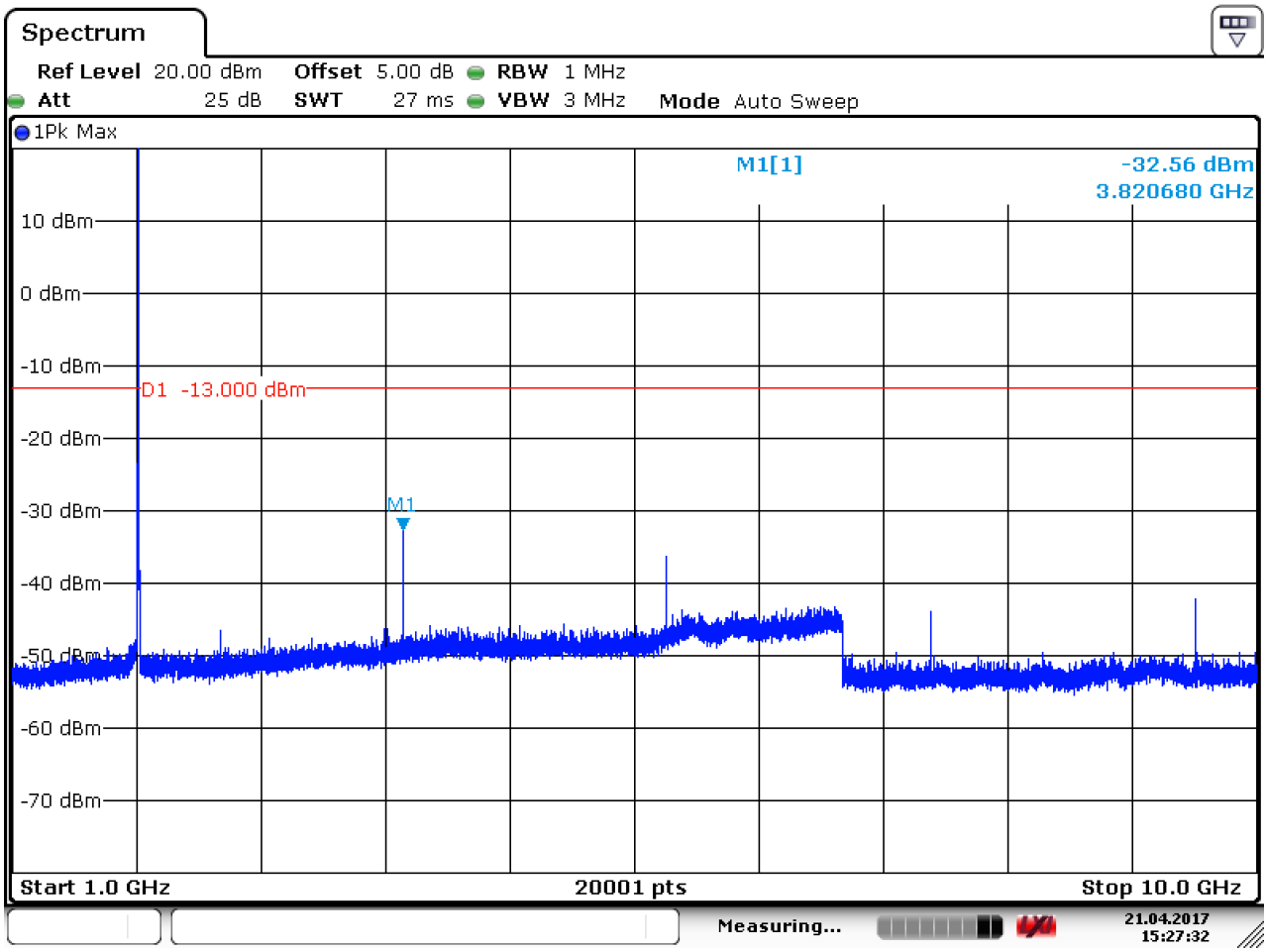


Date: 21.APR.2017 15:14:52

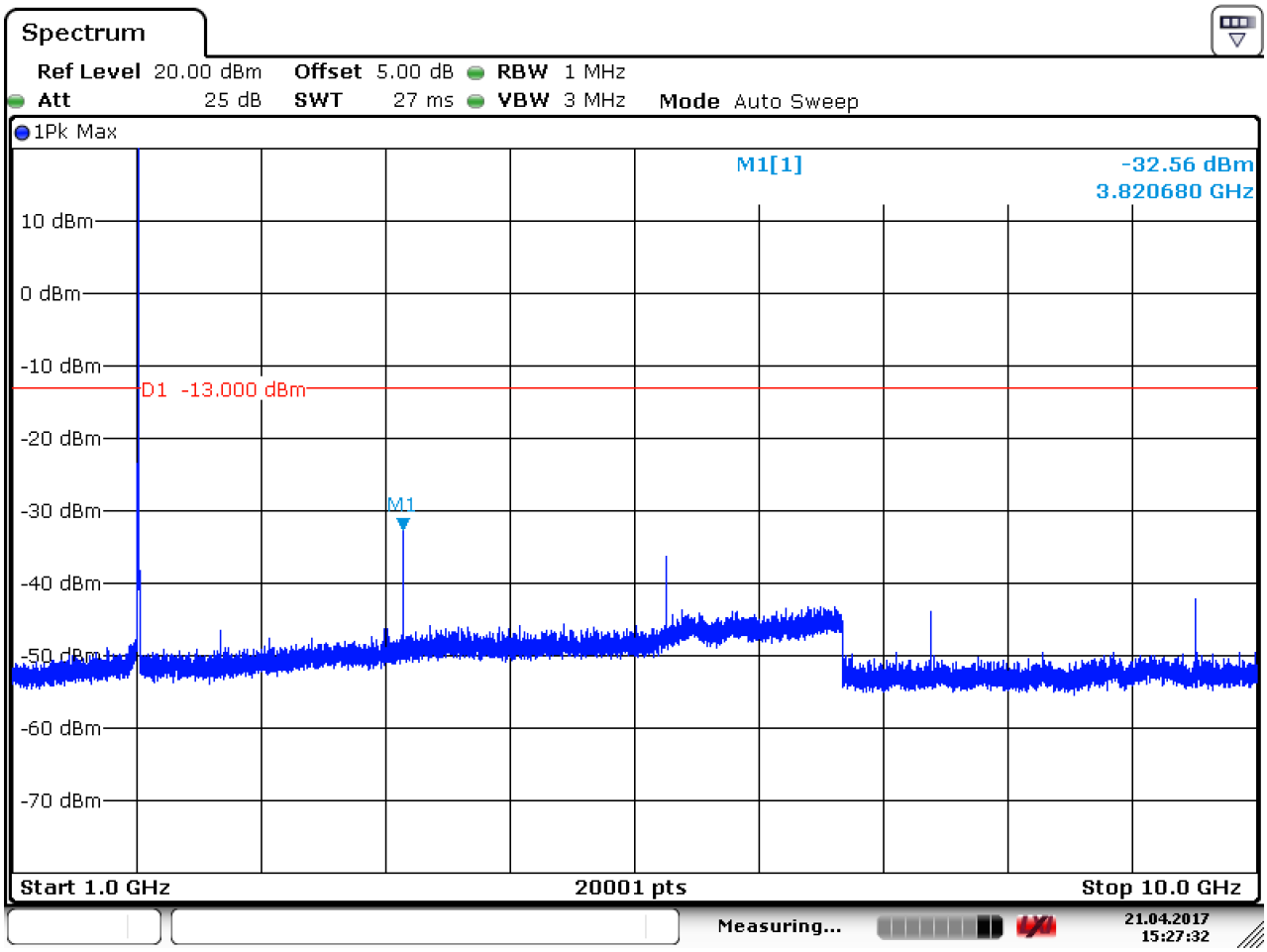
6.1.1.3.3 Test Channel = HCH



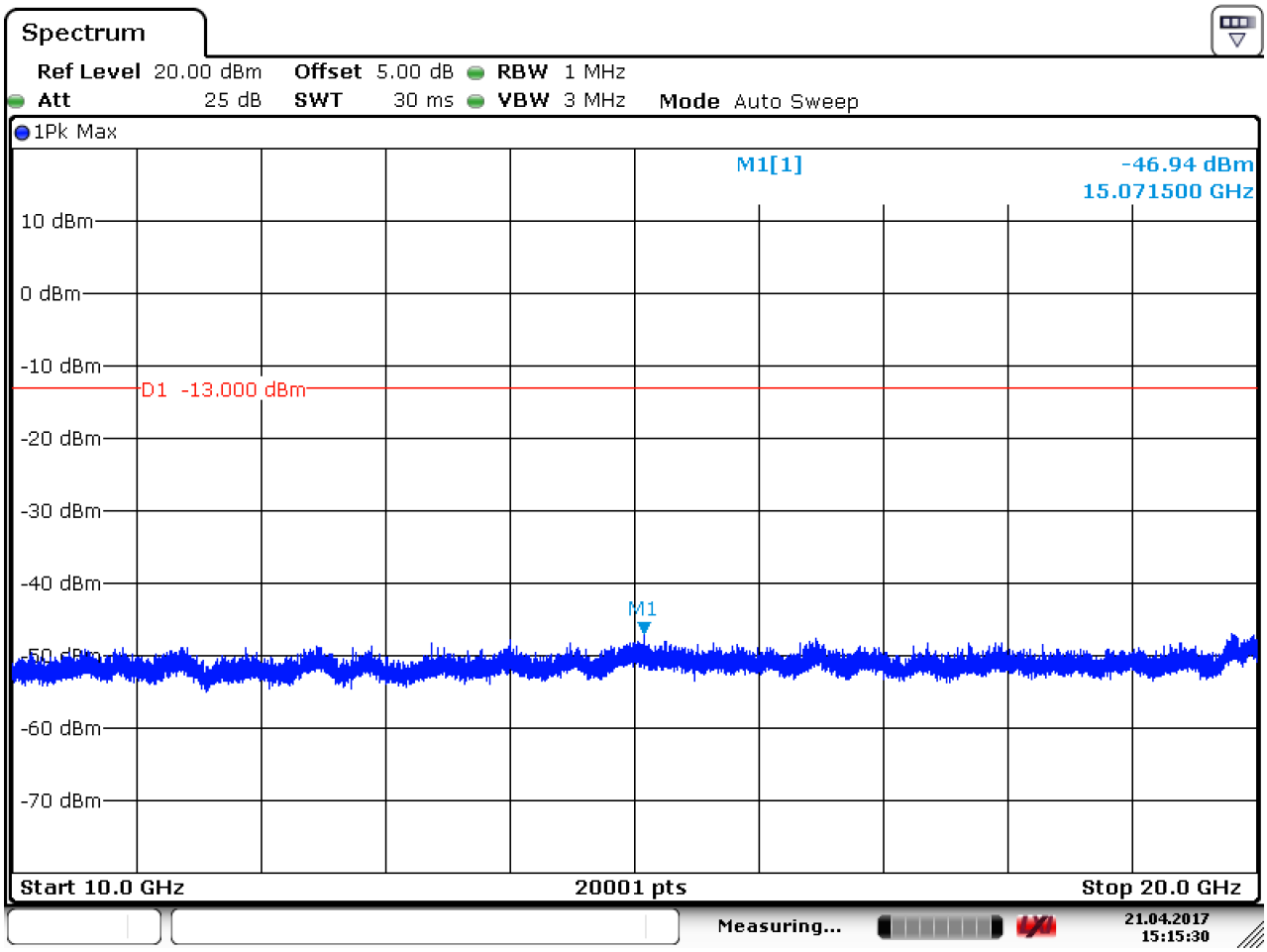
Date: 21.APR.2017 14:57:46



Date: 21.APR.2017 15:27:33



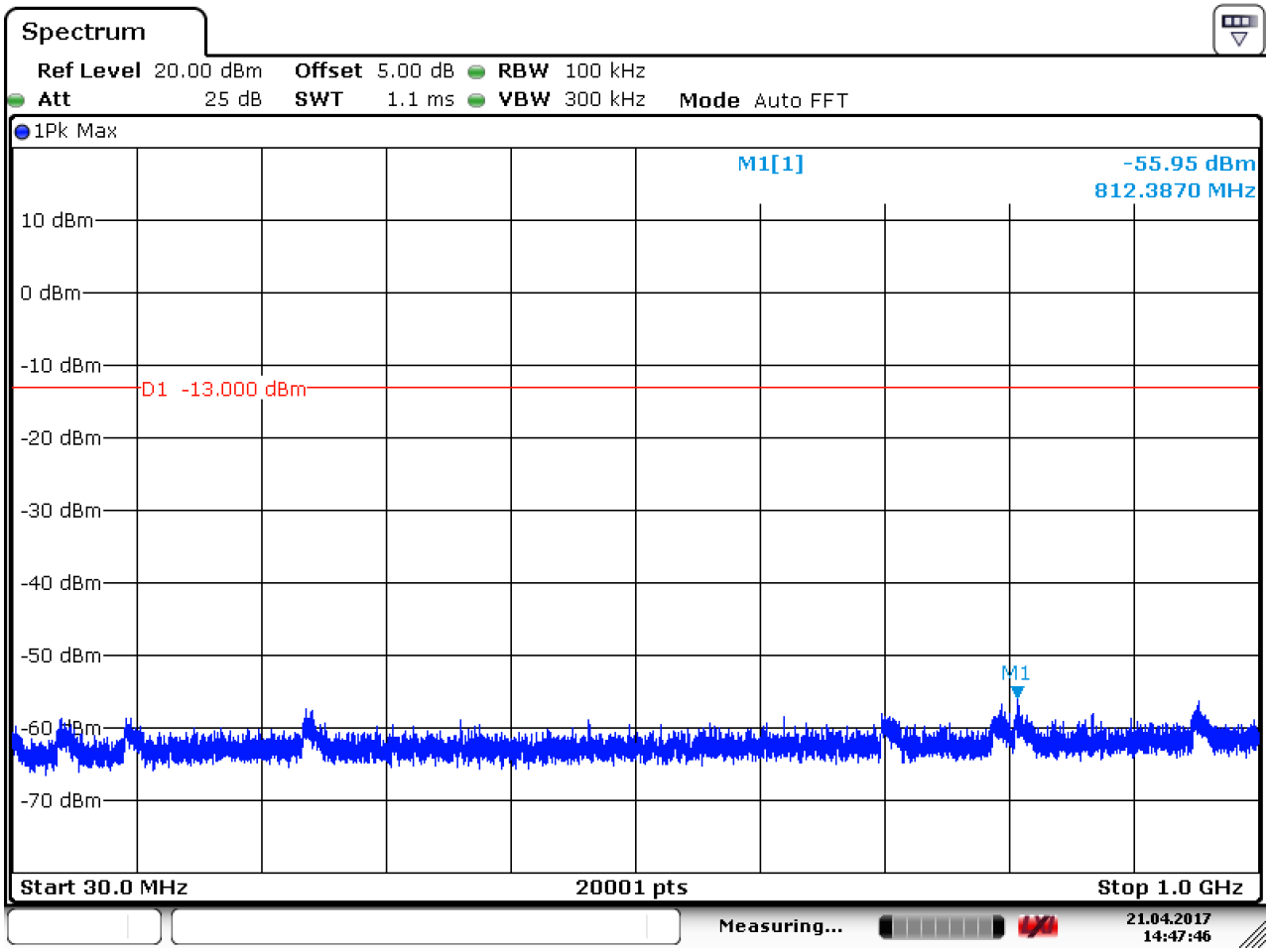
Date: 21.APR.2017 15:27:33



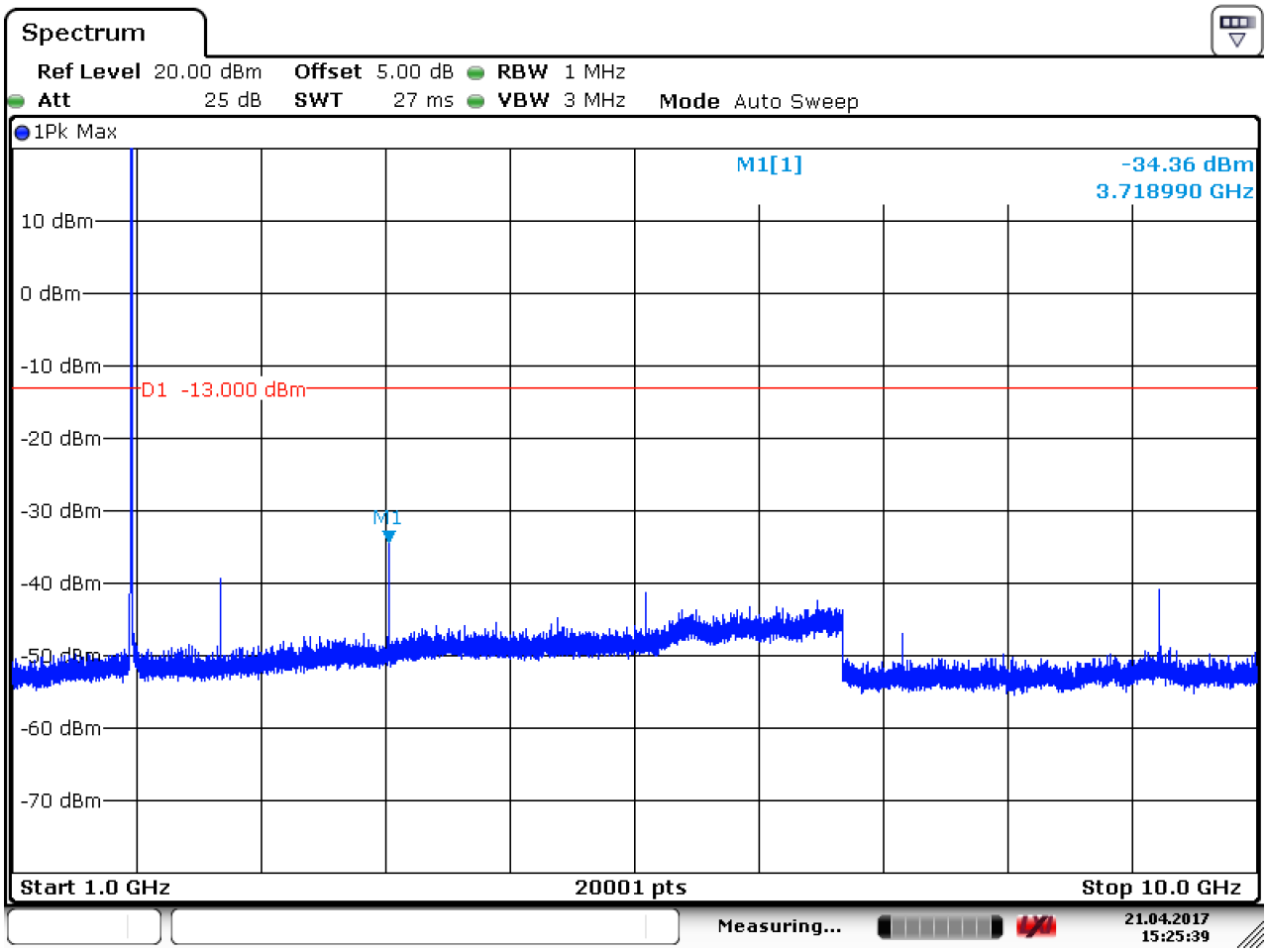
Date: 21.APR.2017 15:15:31

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

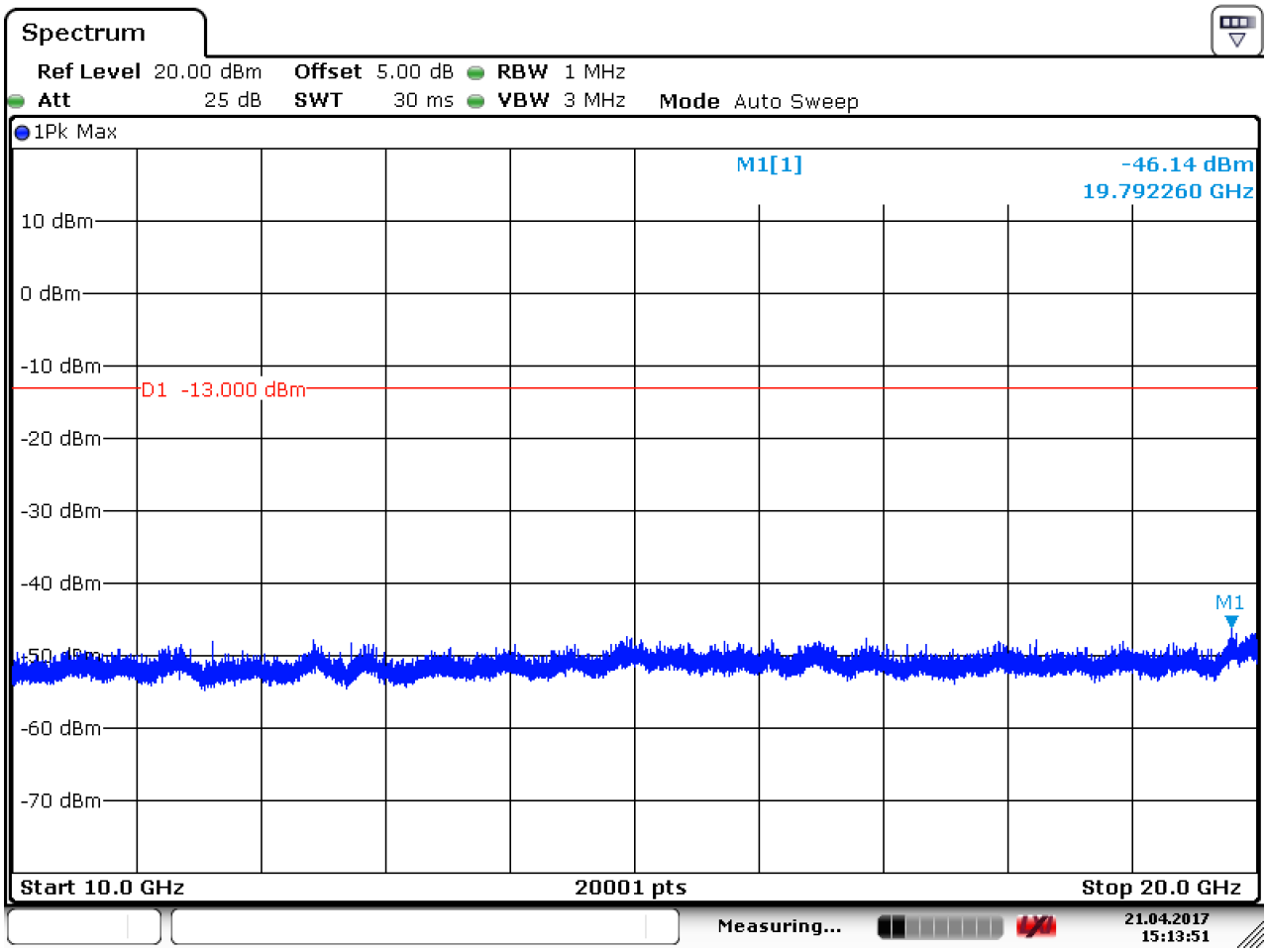
6.1.1.4.1 Test Channel = LCH



Date: 21.APR.2017 14:47:47

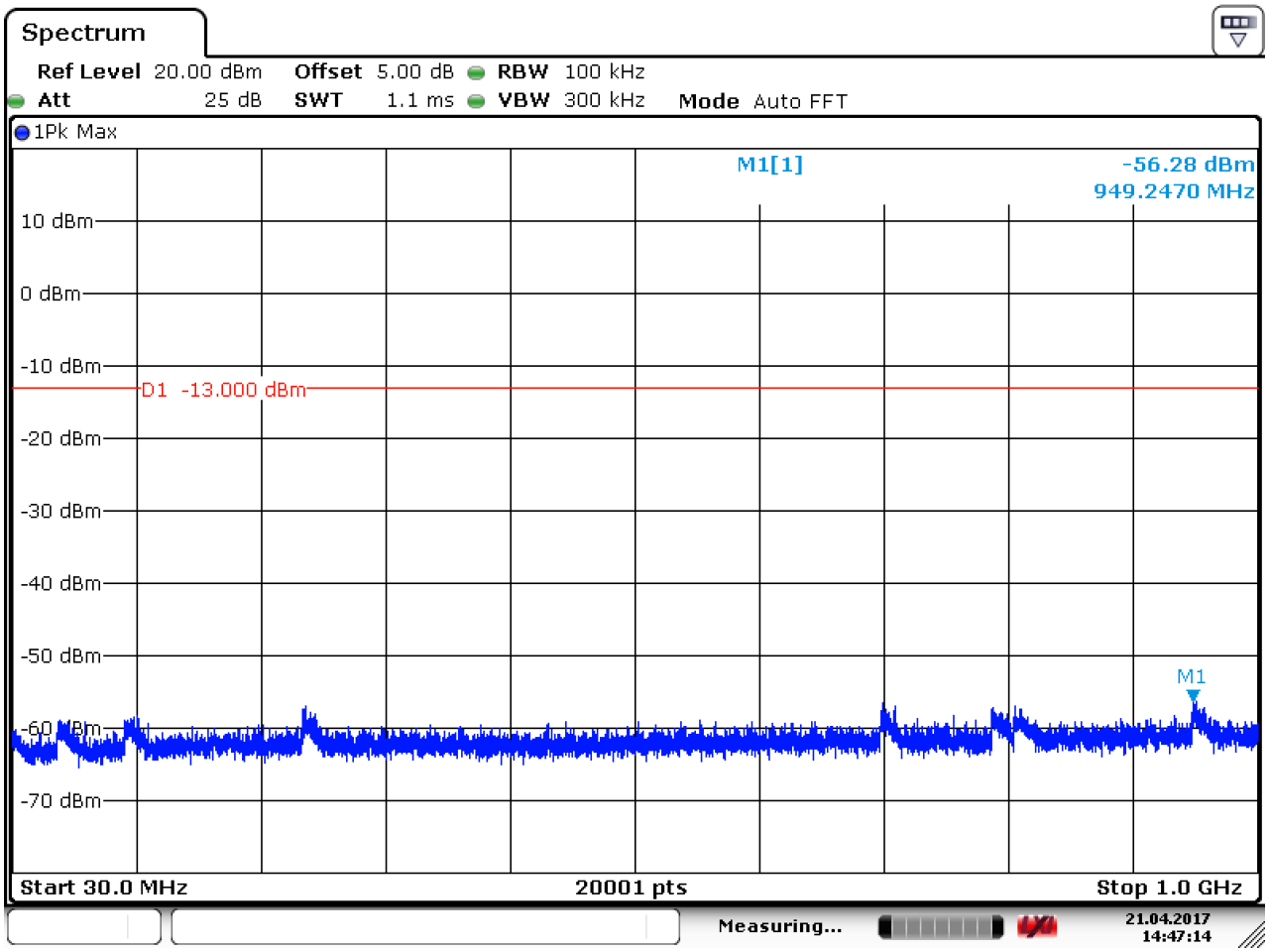


Date: 21.APR.2017 15:25:39

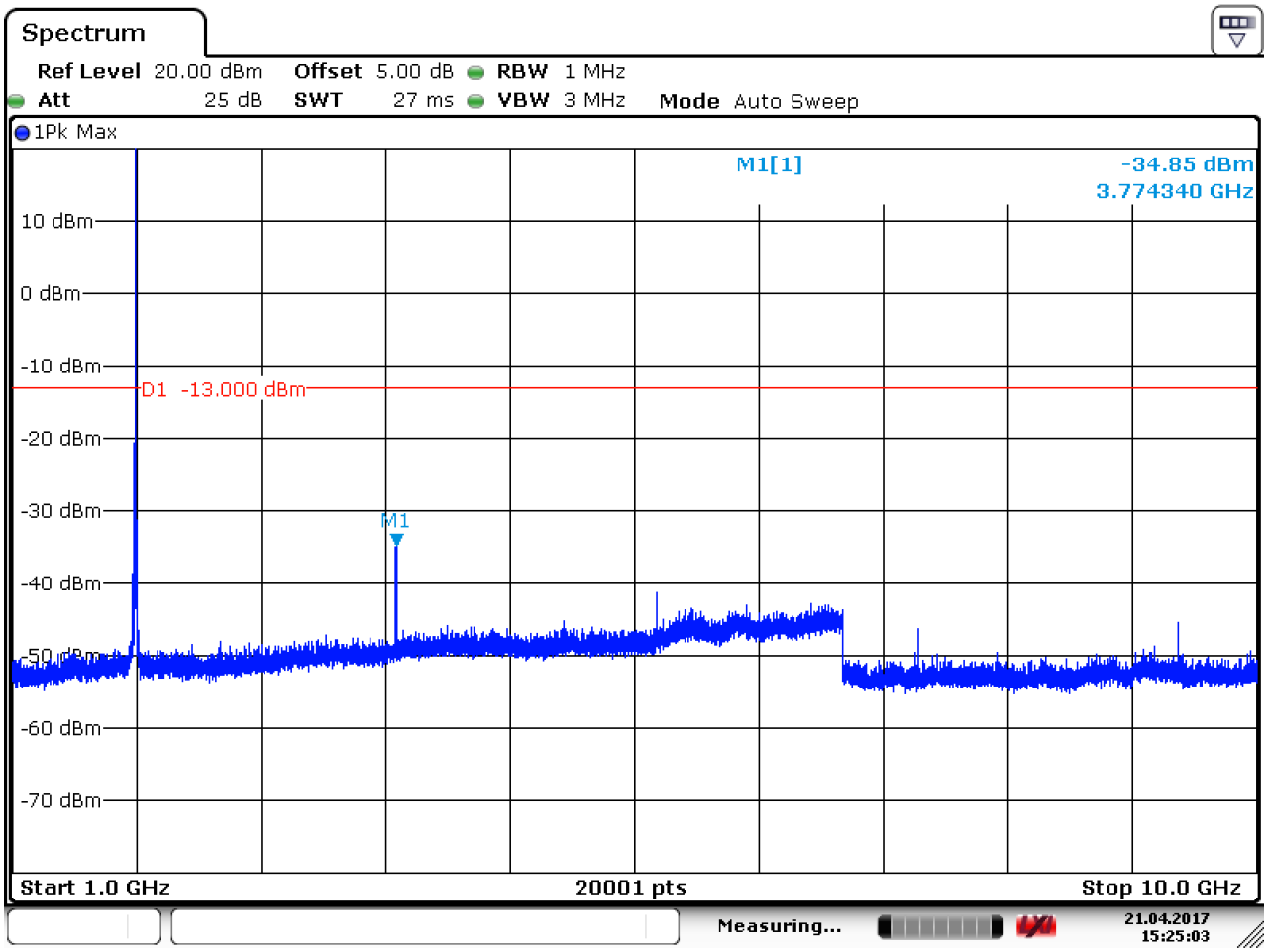


Date: 21.APR.2017 15:13:51

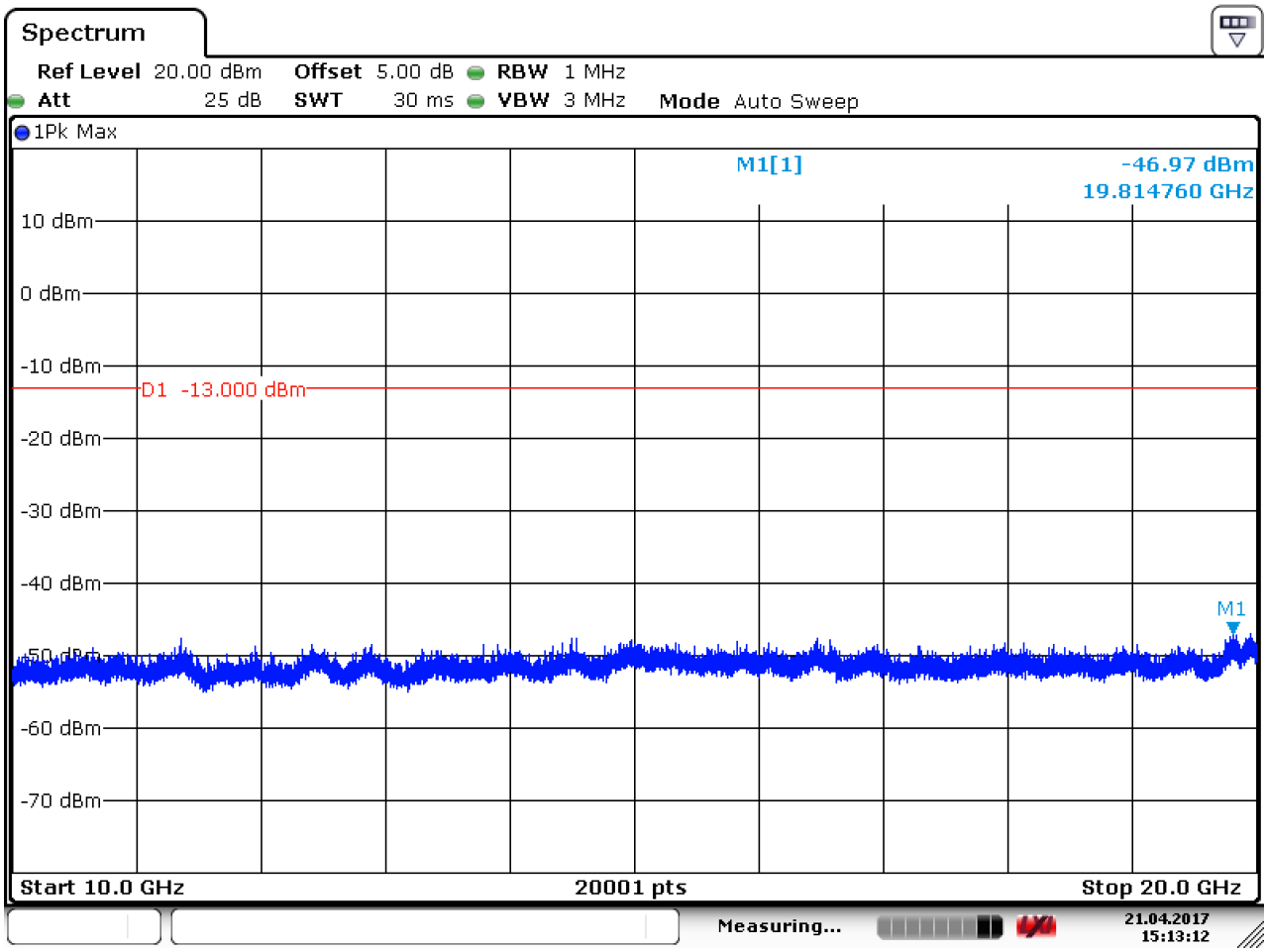
6.1.1.4.2 Test Channel = MCH



Date: 21.APR.2017 14:47:14

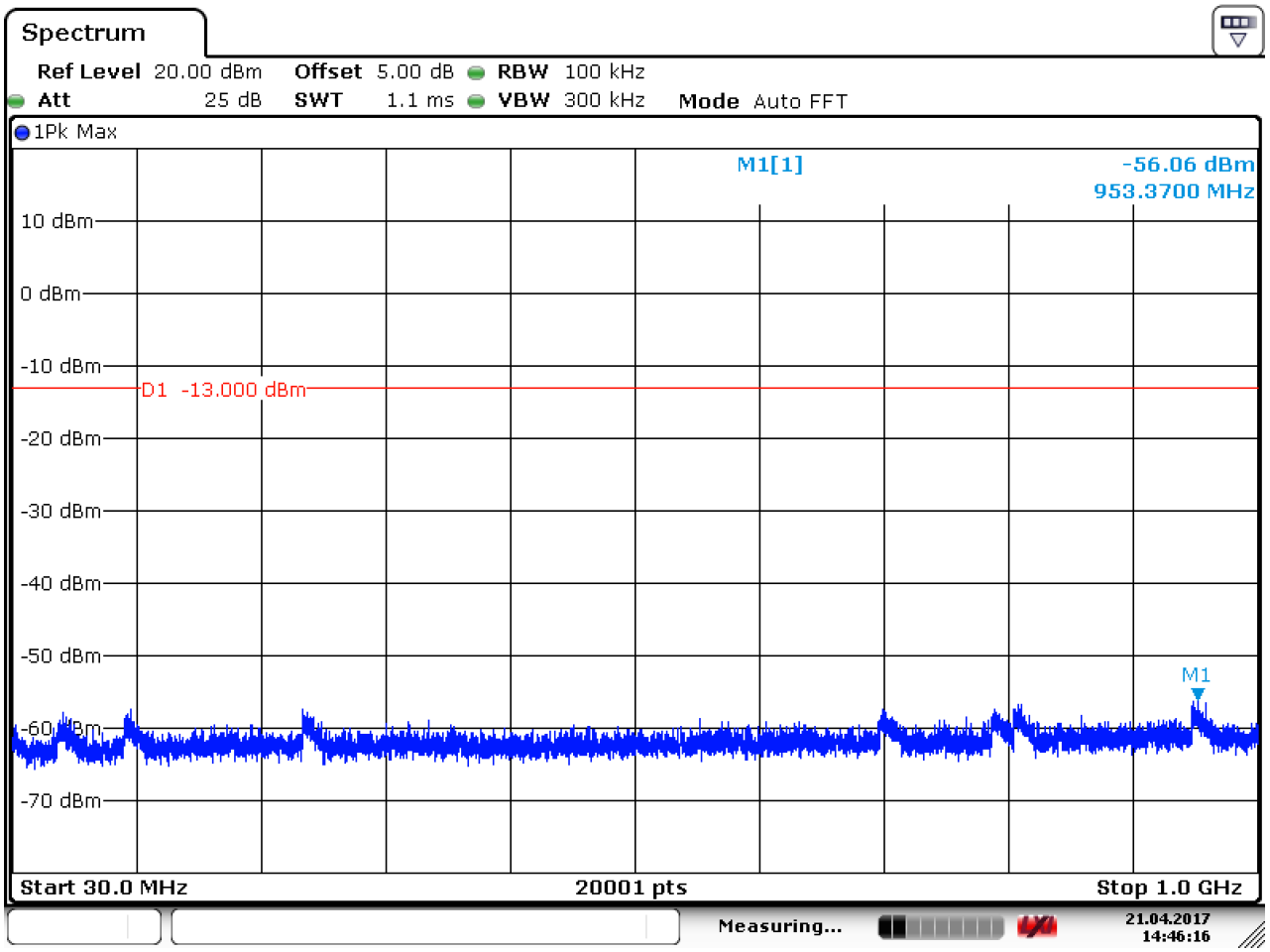


Date: 21.APR.2017 15:25:04

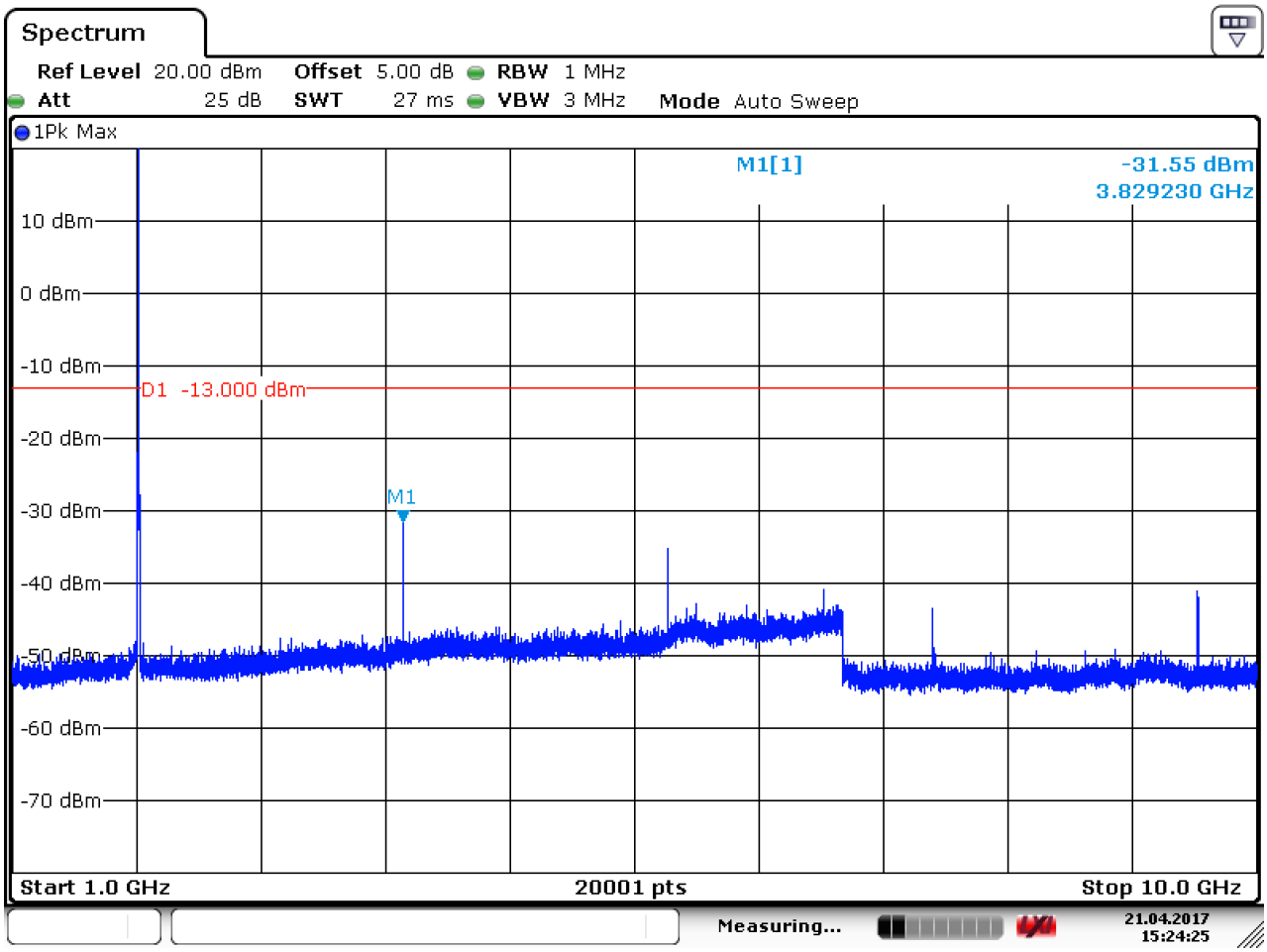


Date: 21.APR.2017 15:13:13

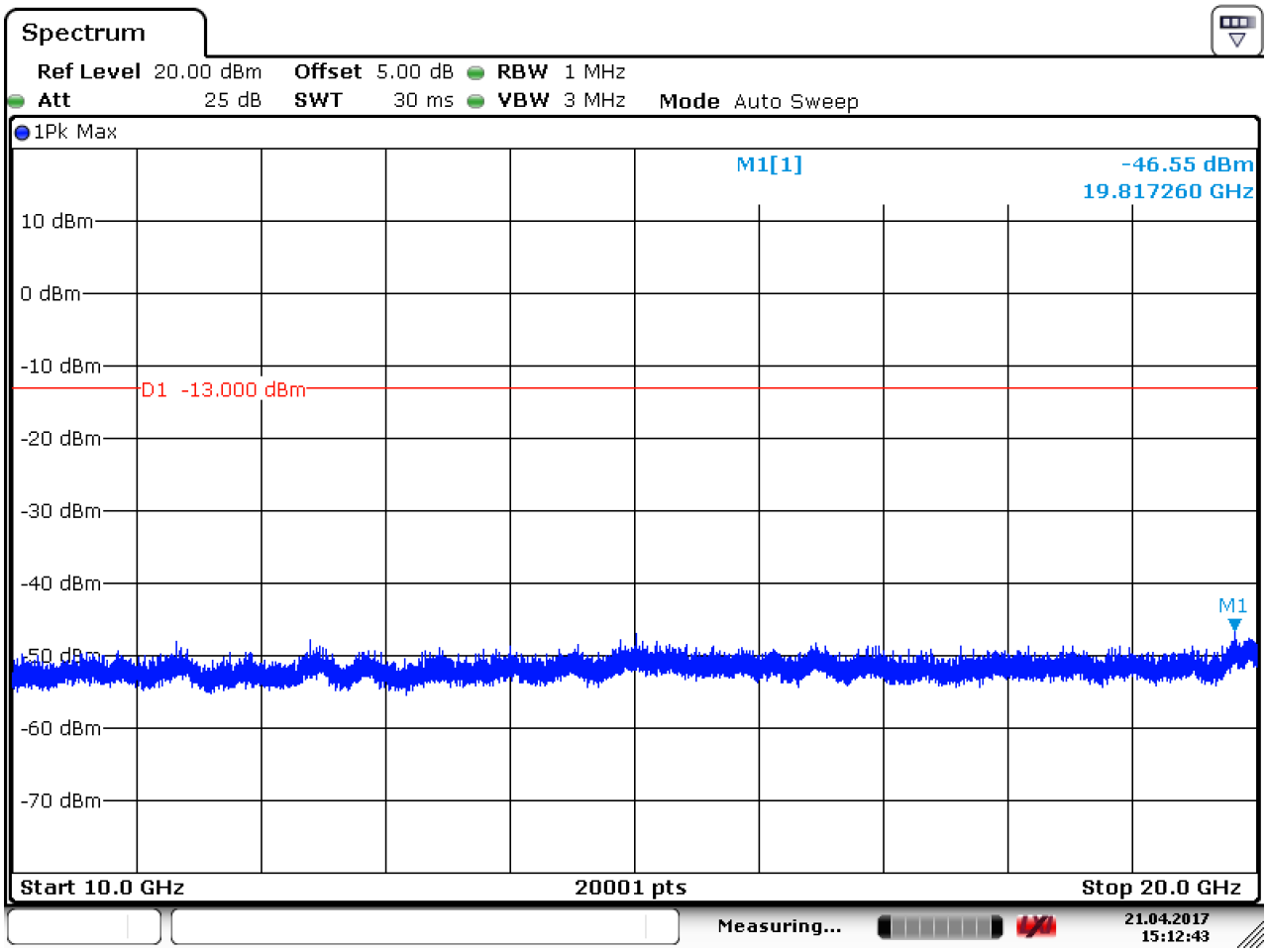
6.1.1.4.3 Test Channel = HCH



Date: 21.APR.2017 14:46:17



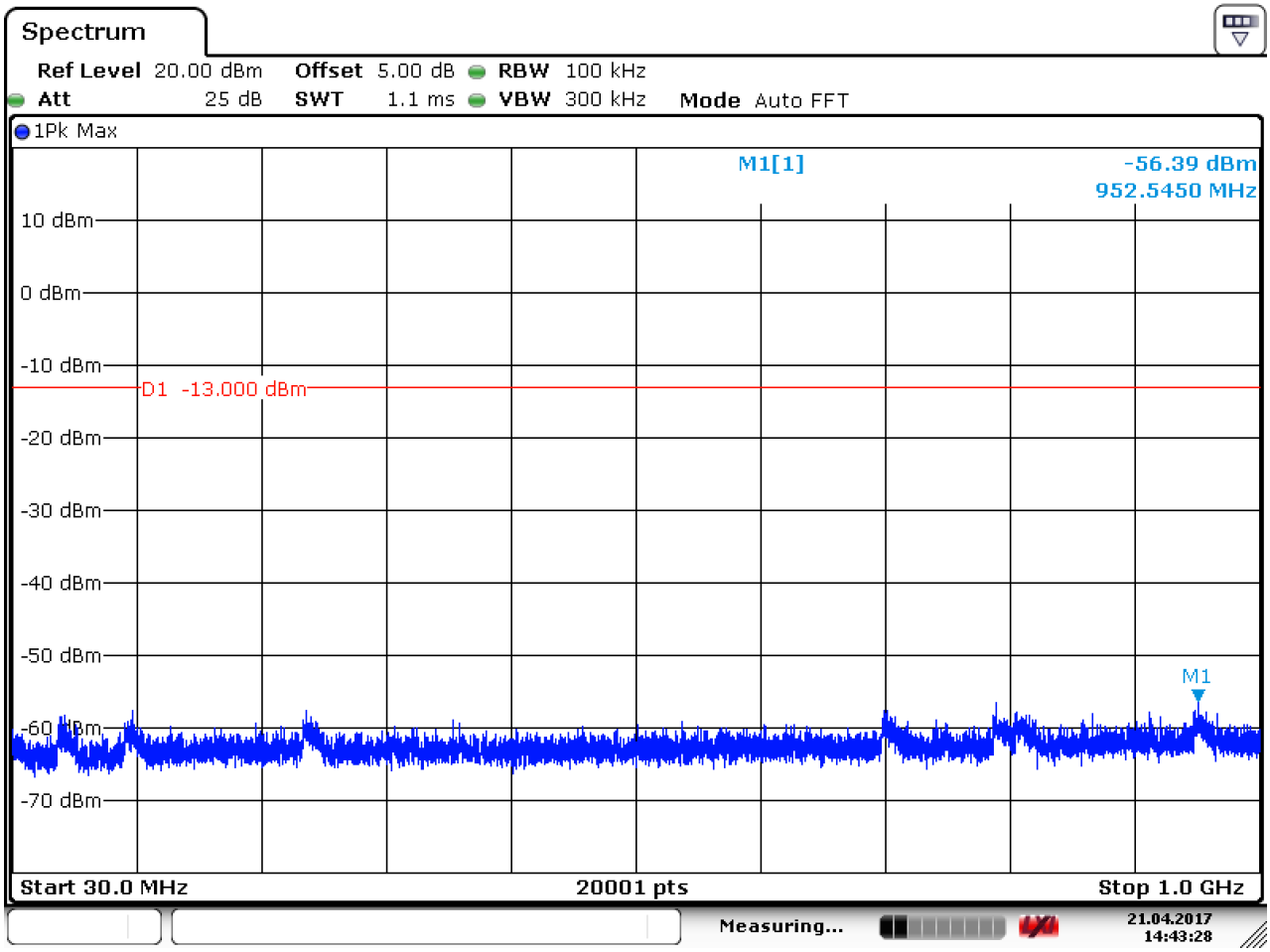
Date: 21.APR.2017 15:24:25



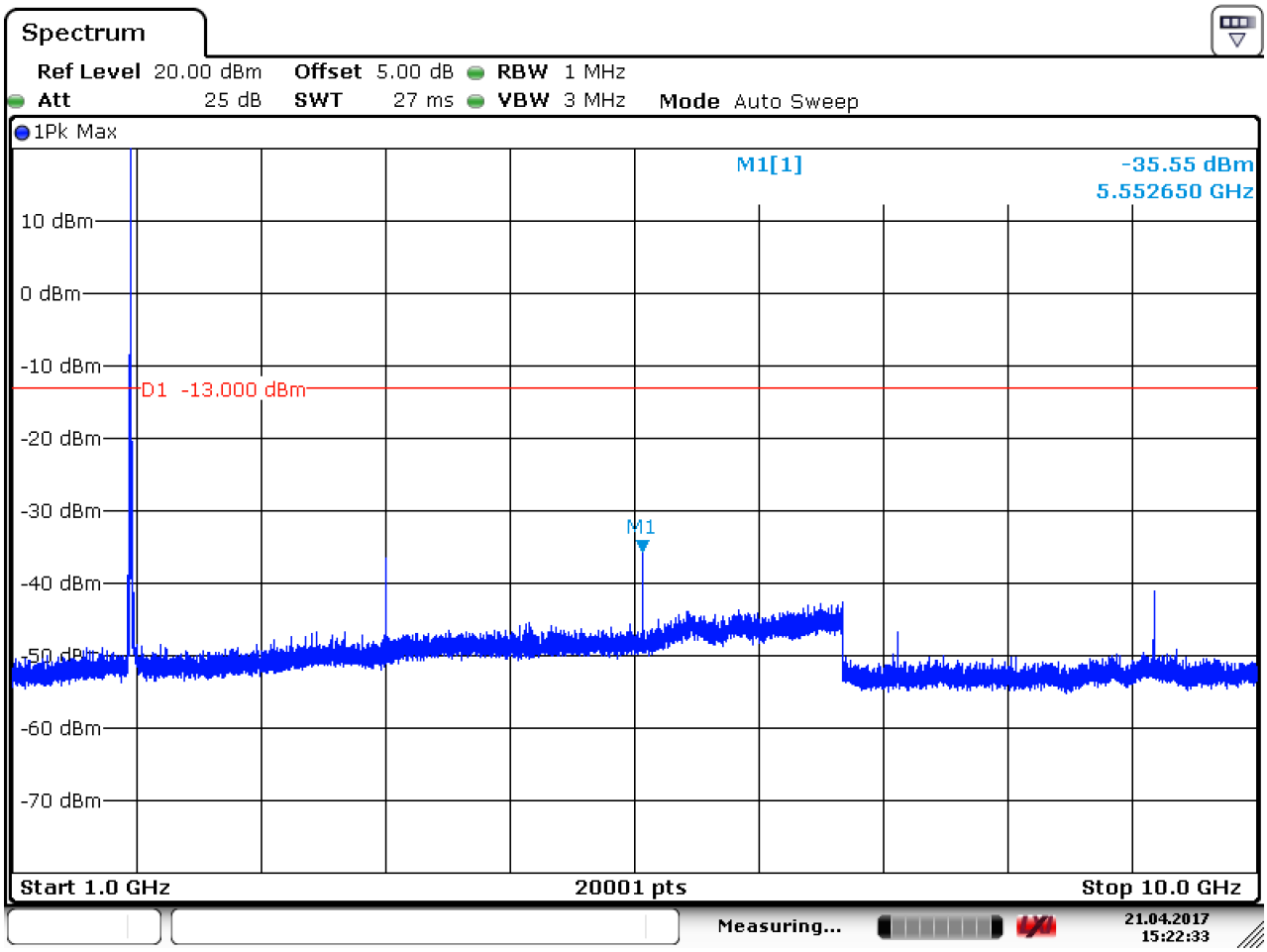
Date: 21.APR.2017 15:12:44

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

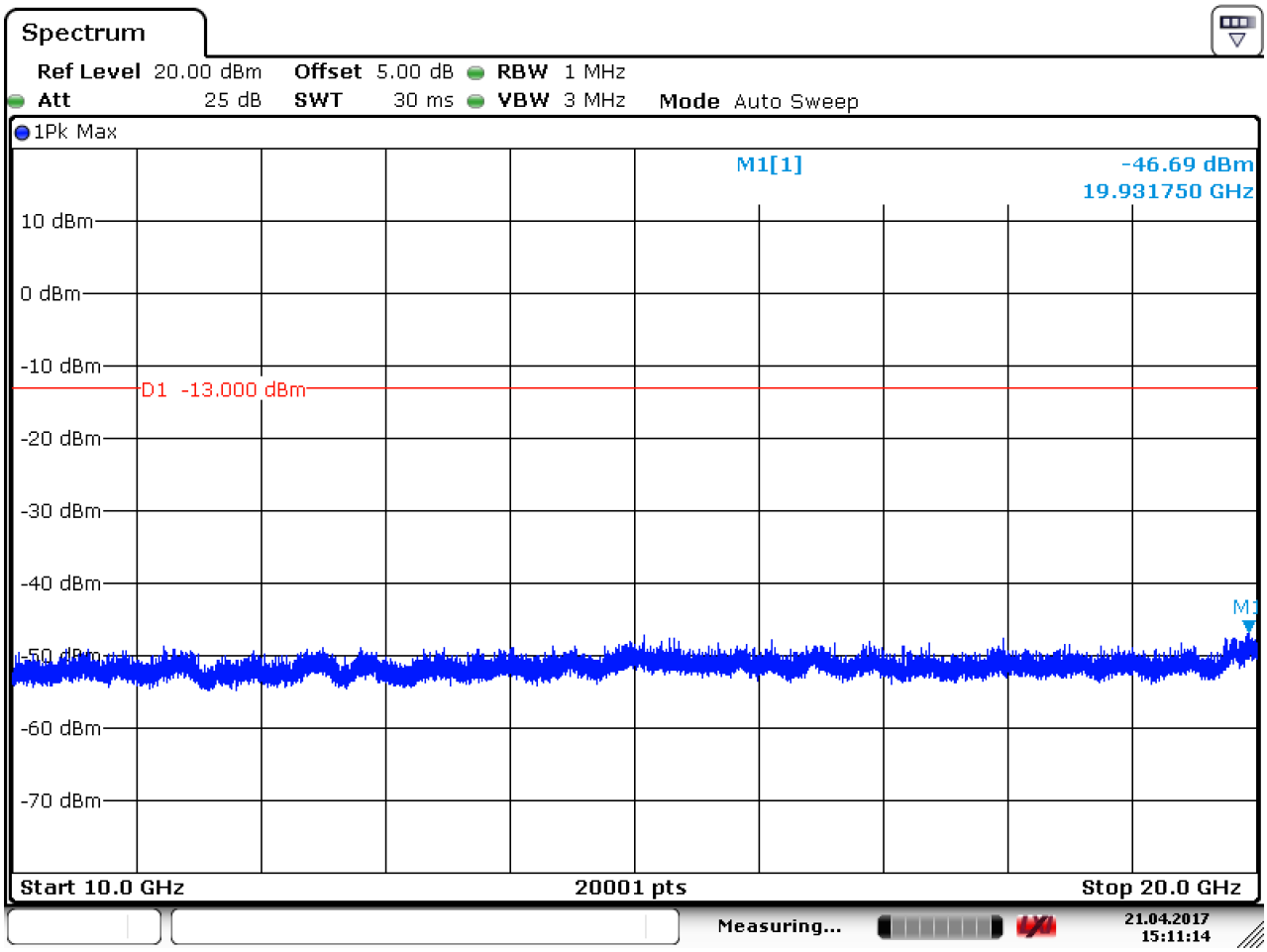
6.1.1.5.1 Test Channel = LCH



Date: 21.APR.2017 14:43:28

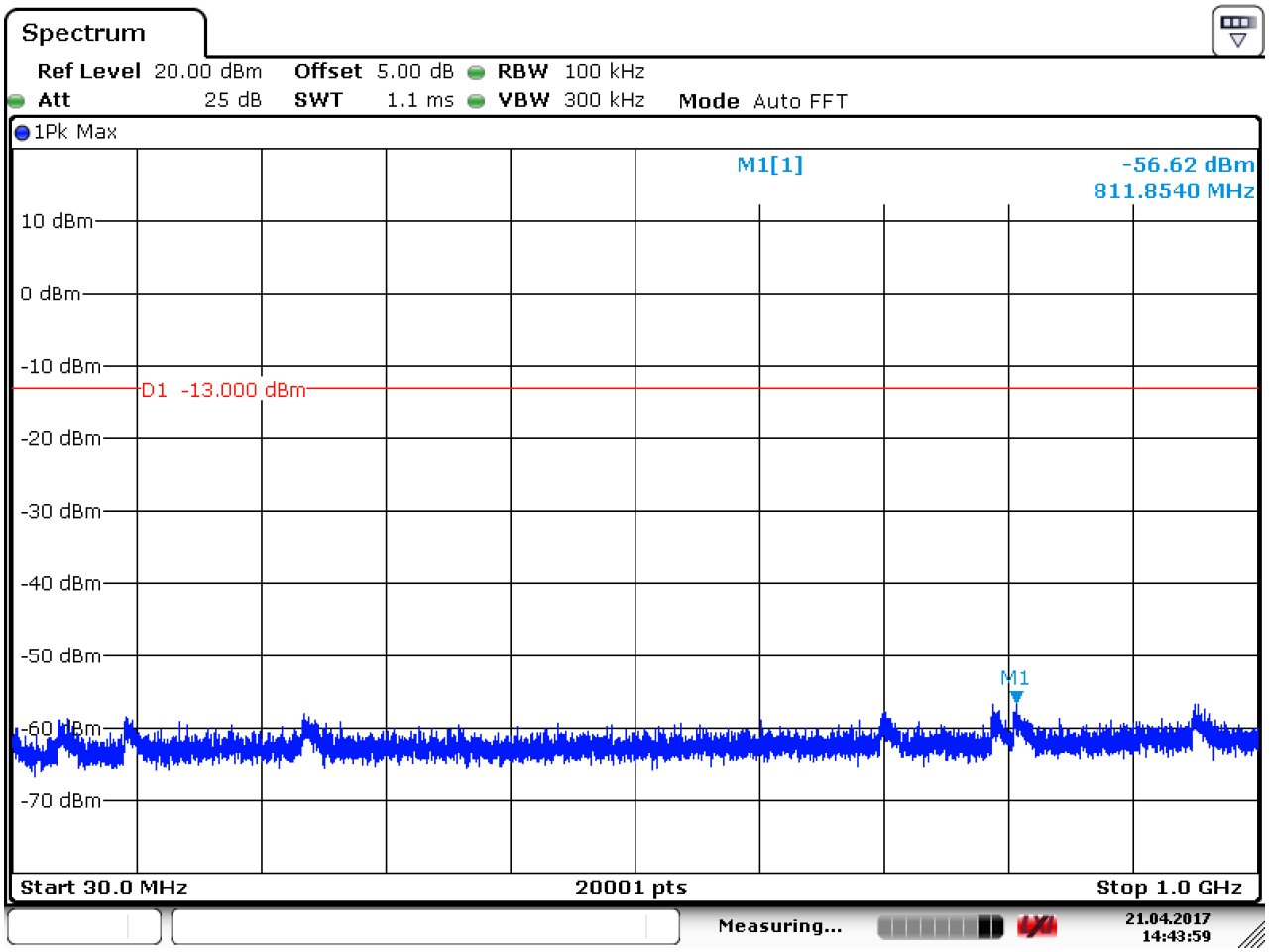


Date: 21.APR.2017 15:22:34

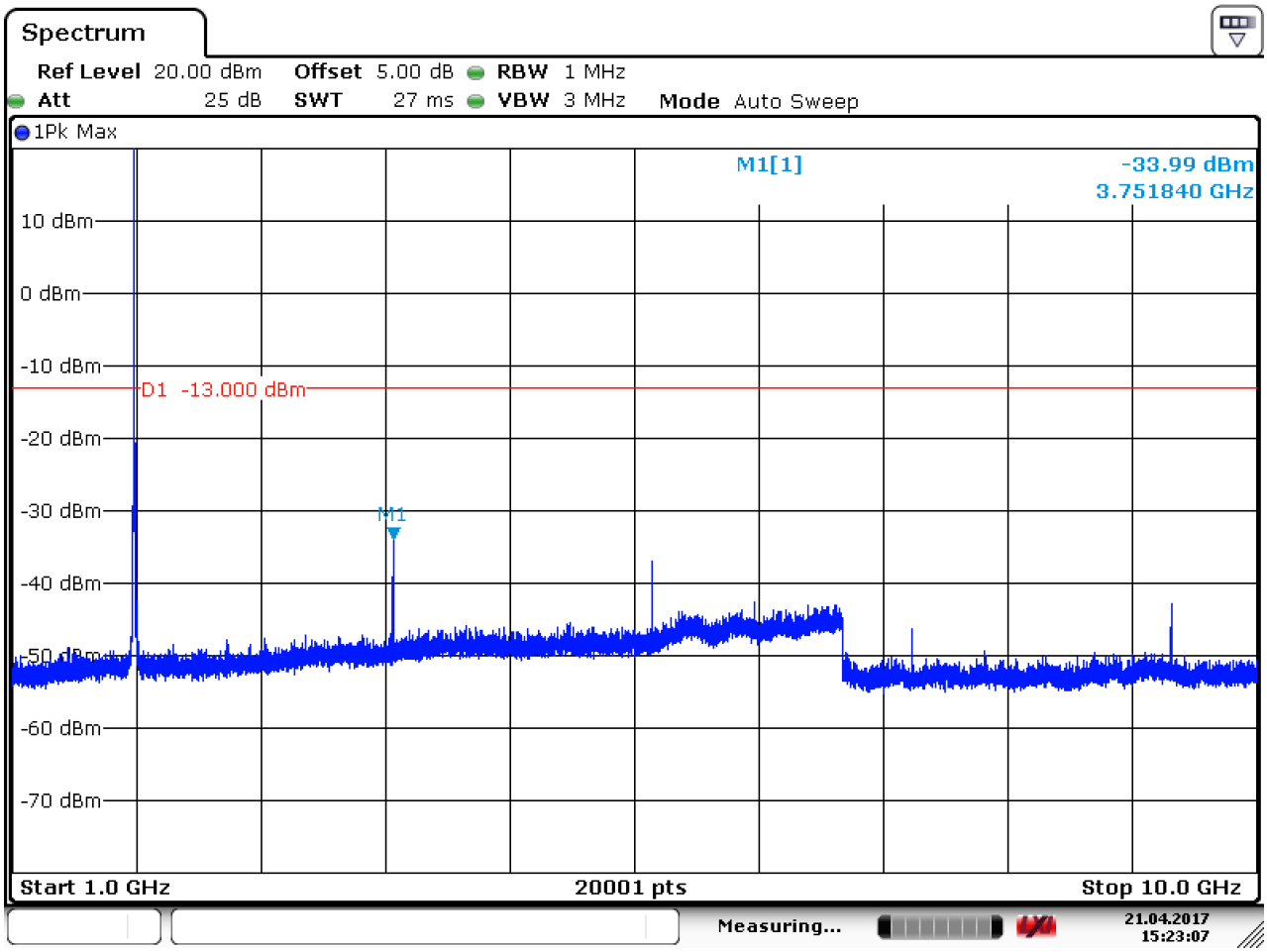


Date: 21.APR.2017 15:11:14

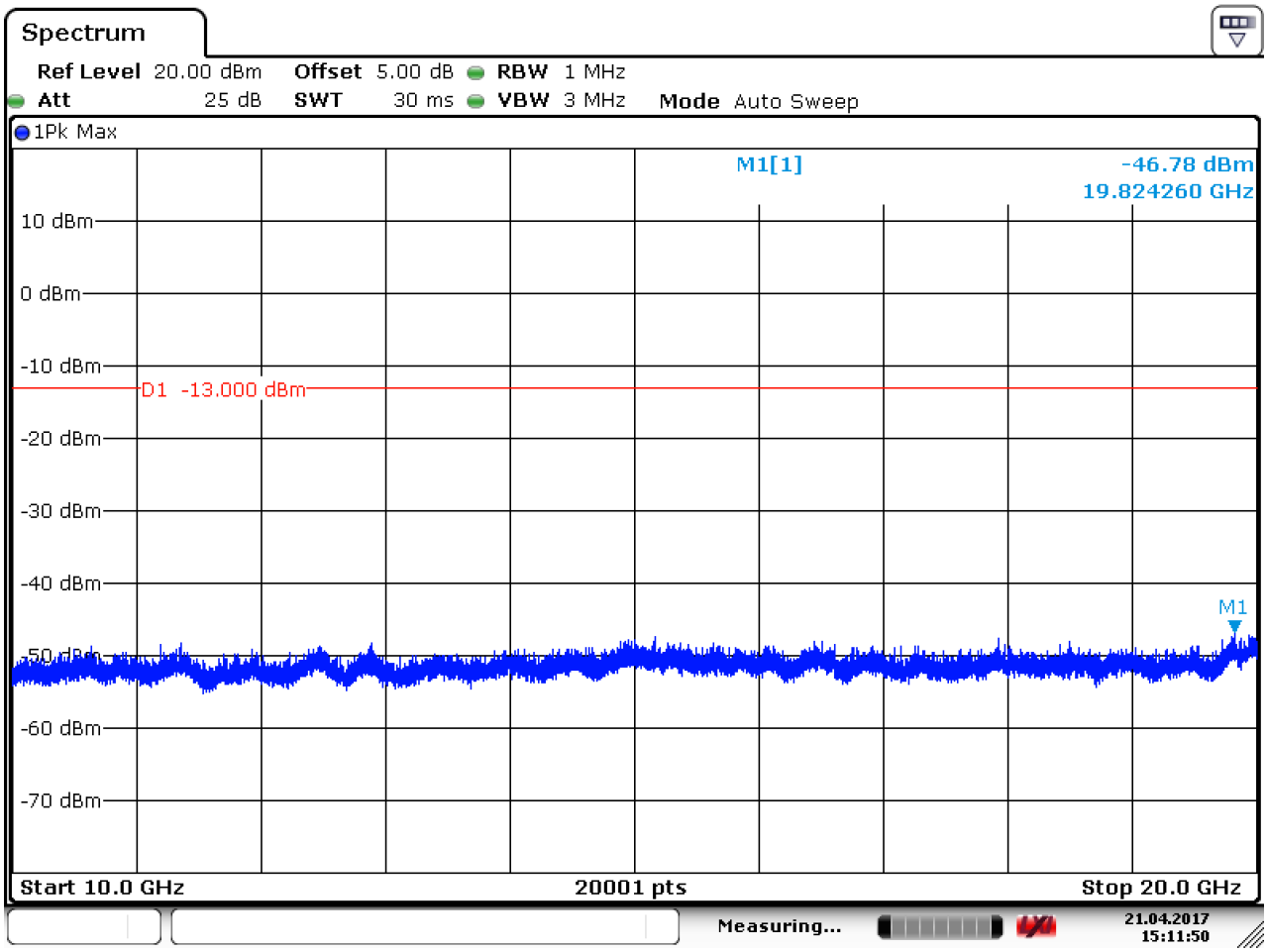
6.1.1.5.2 Test Channel = MCH



Date: 21.APR.2017 14:44:00

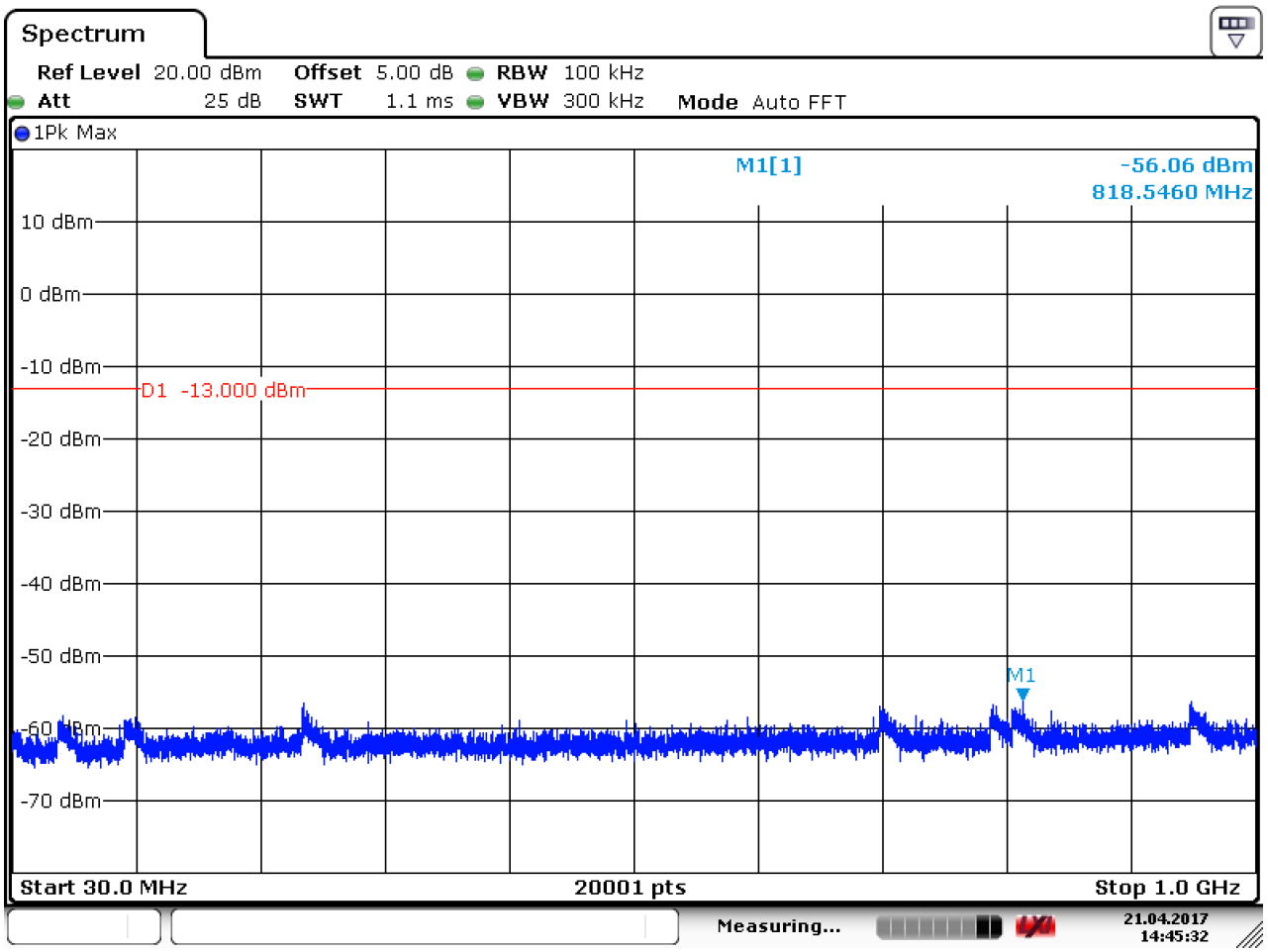


Date: 21.APR.2017 15:23:07

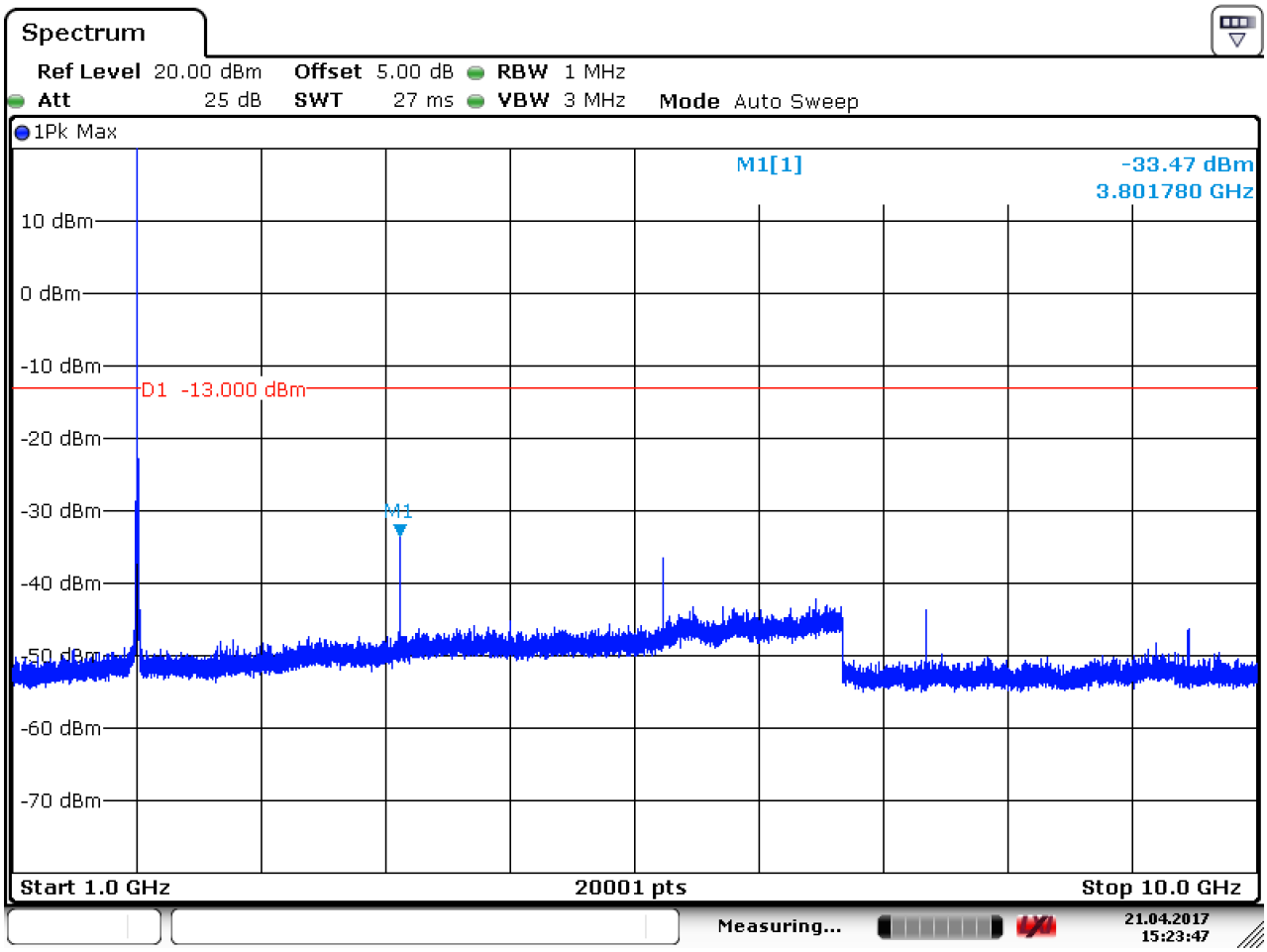


Date: 21.APR.2017 15:11:50

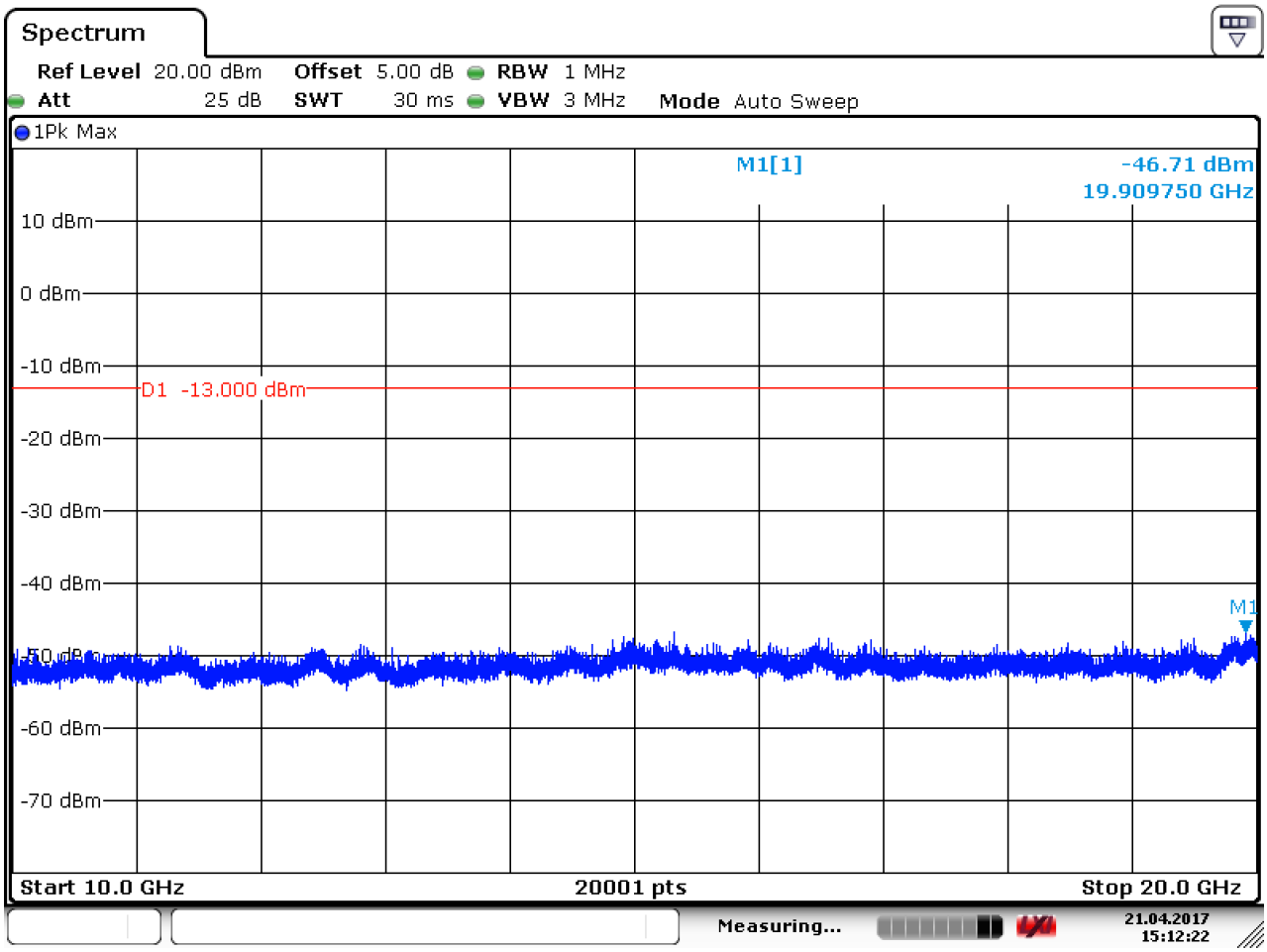
6.1.1.5.3 Test Channel = HCH



Date: 21.APR.2017 14:45:32



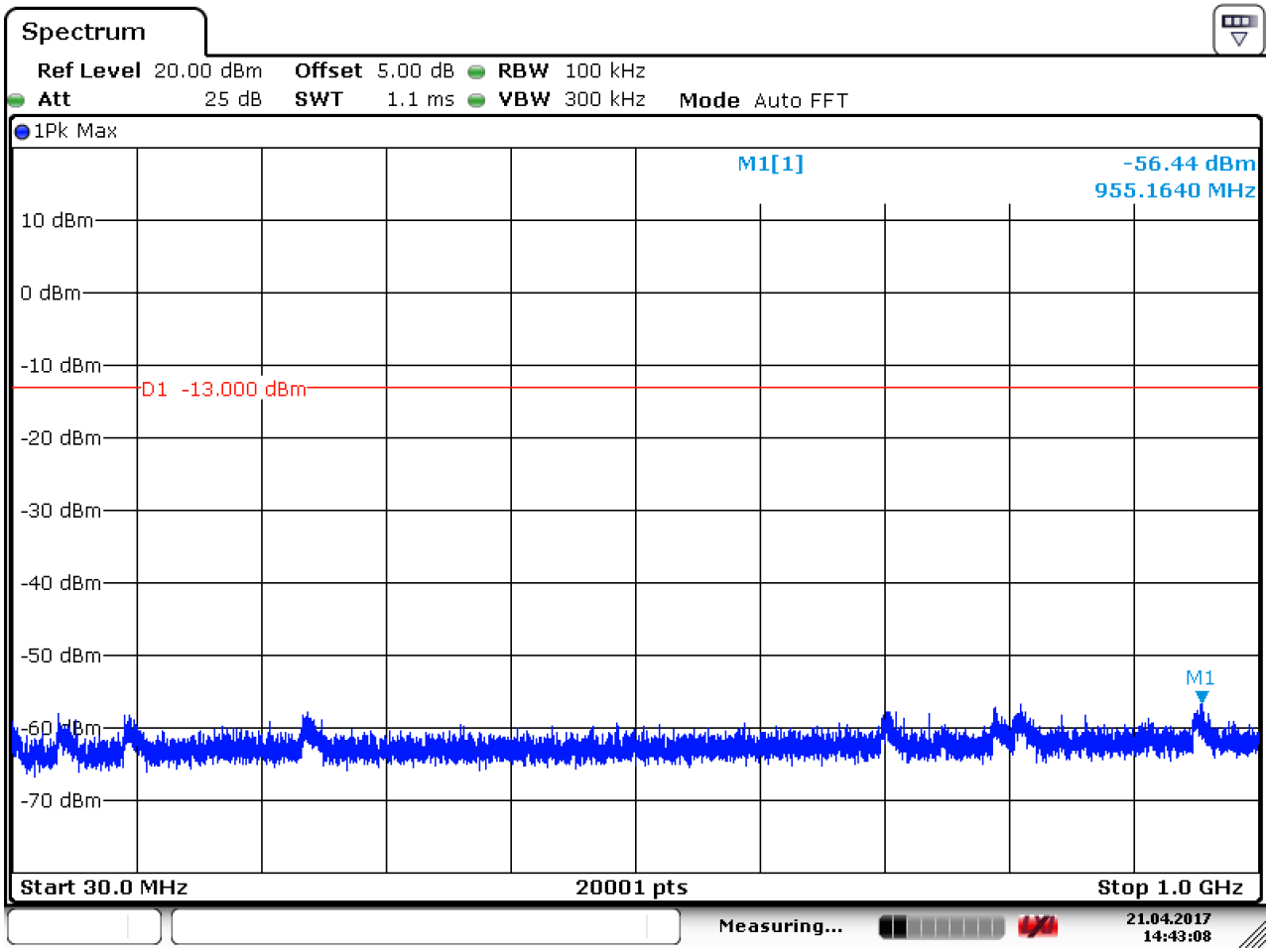
Date: 21.APR.2017 15:23:47



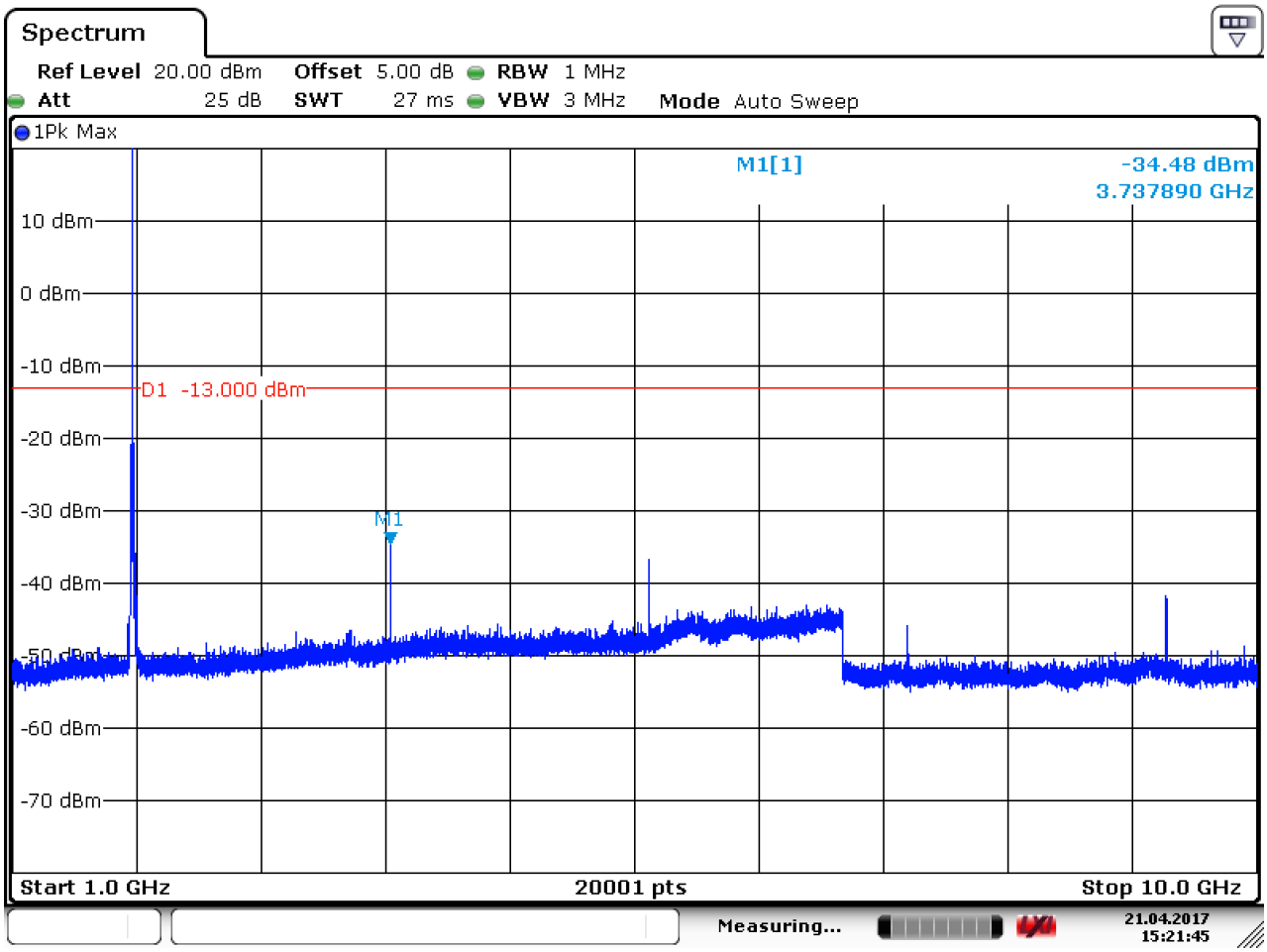
Date: 21.APR.2017 15:12:22

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

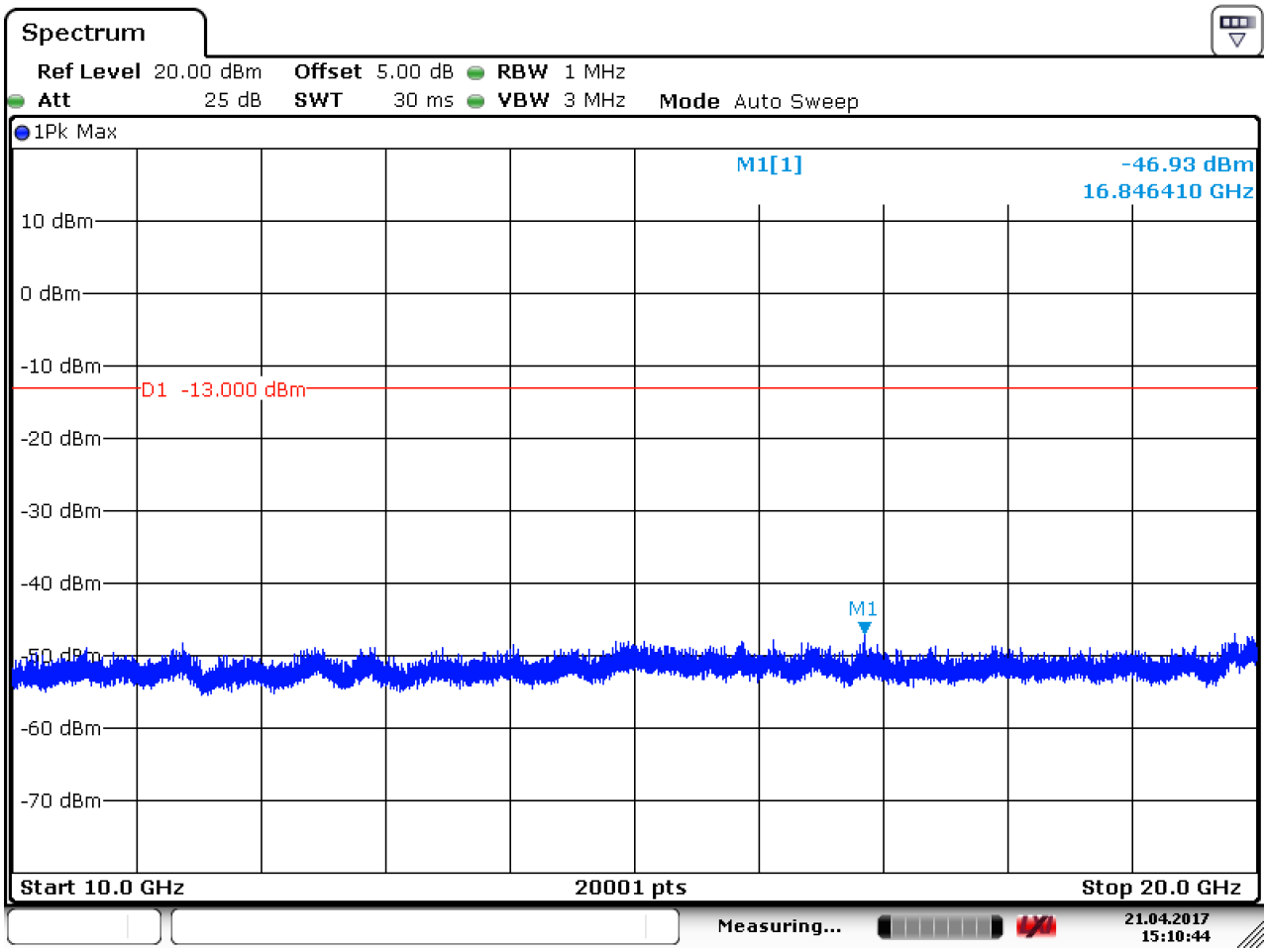
6.1.1.6.1 Test Channel = LCH



Date: 21.APR.2017 14:43:08

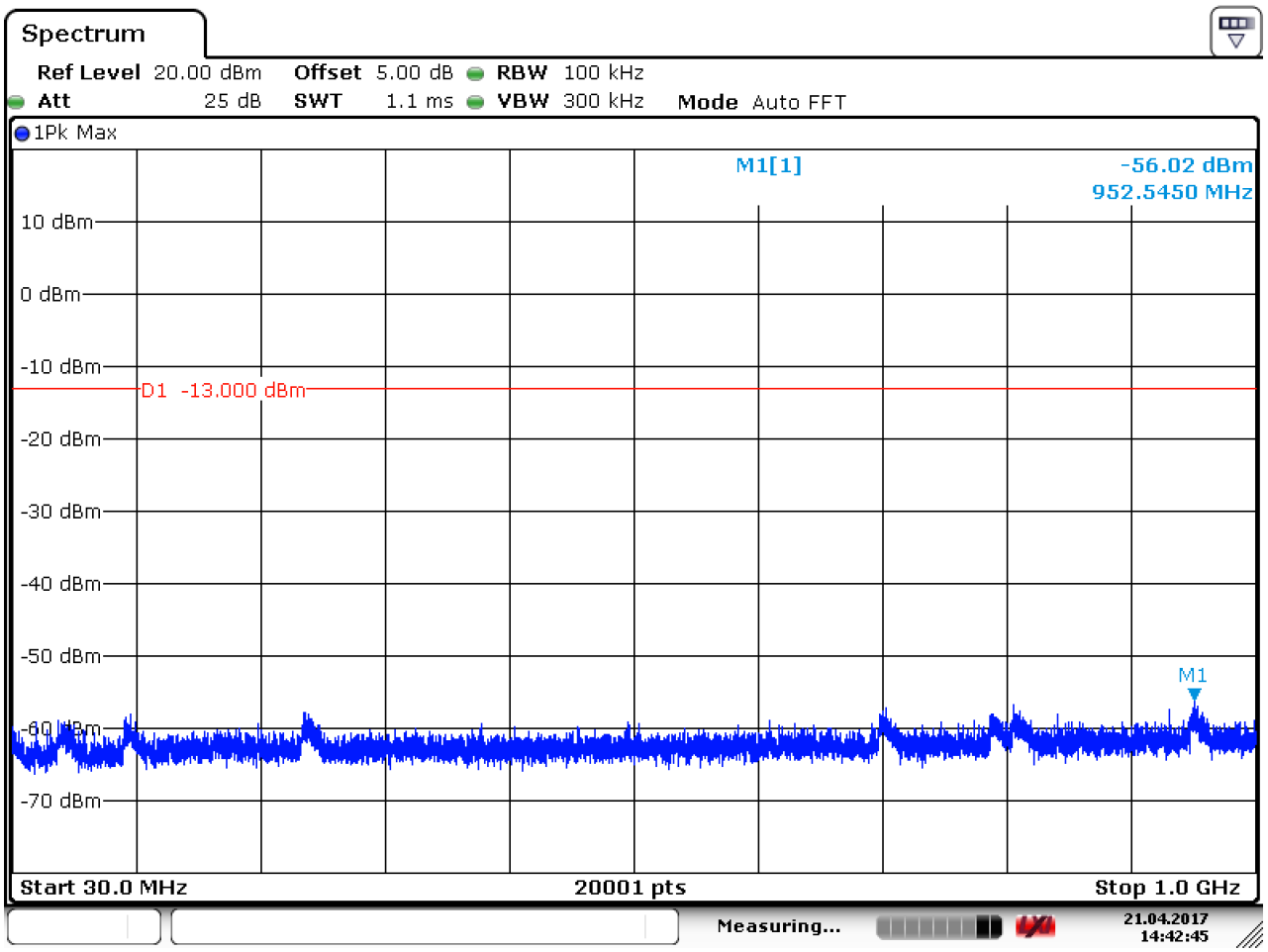


Date: 21.APR.2017 15:21:45

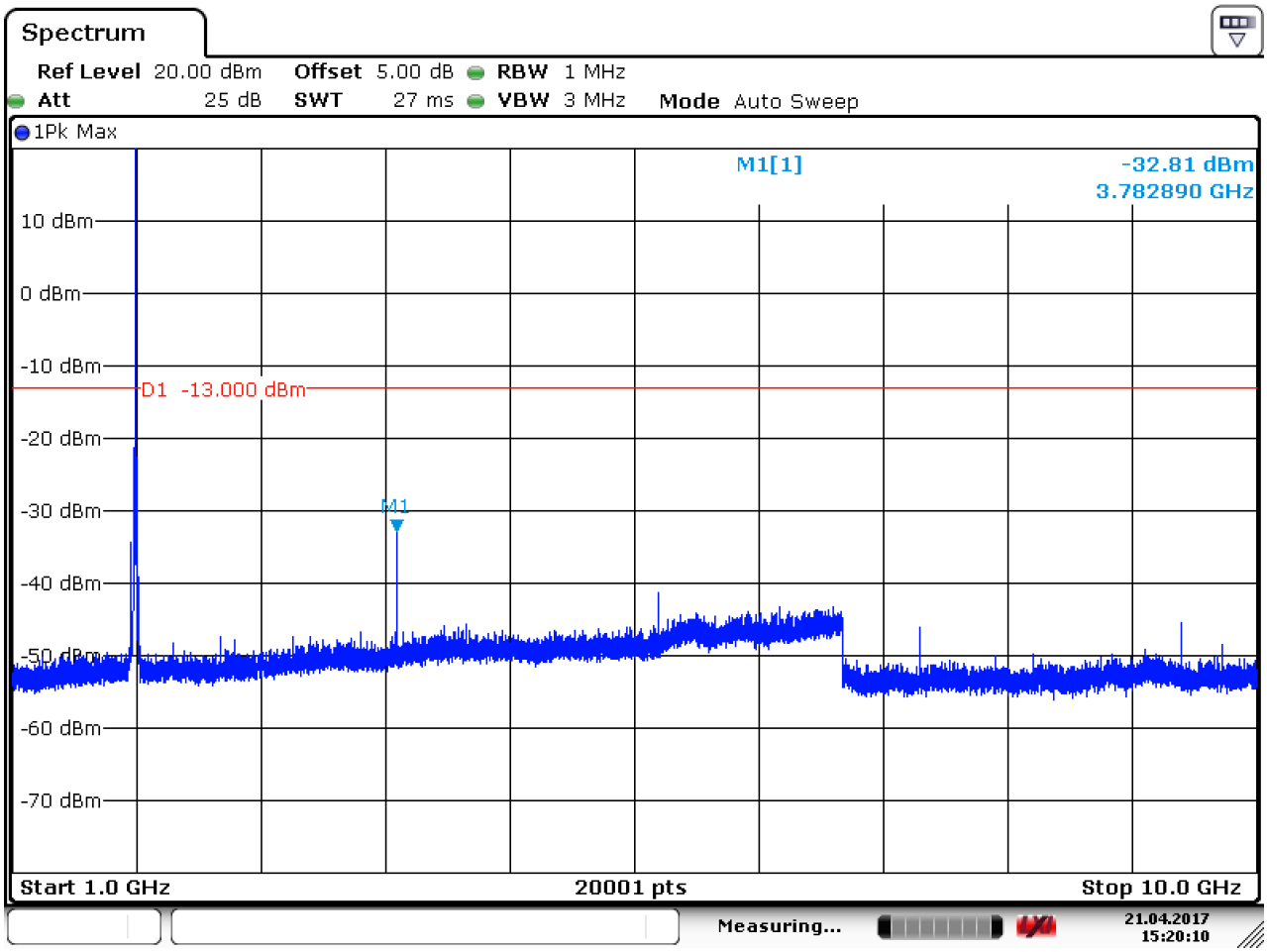


Date: 21.APR.2017 15:10:45

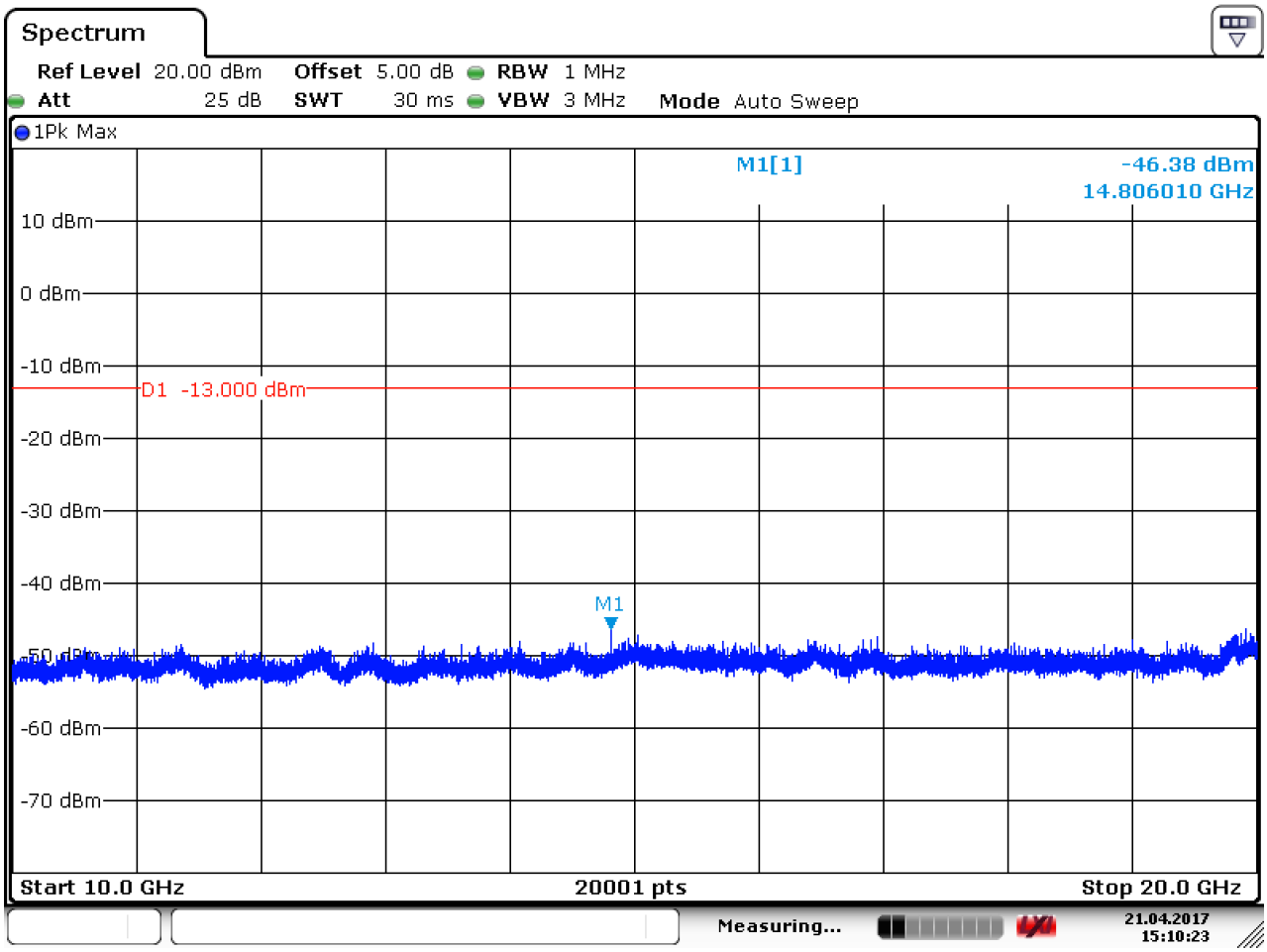
6.1.1.6.2 Test Channel = MCH



Date: 21.APR.2017 14:42:45

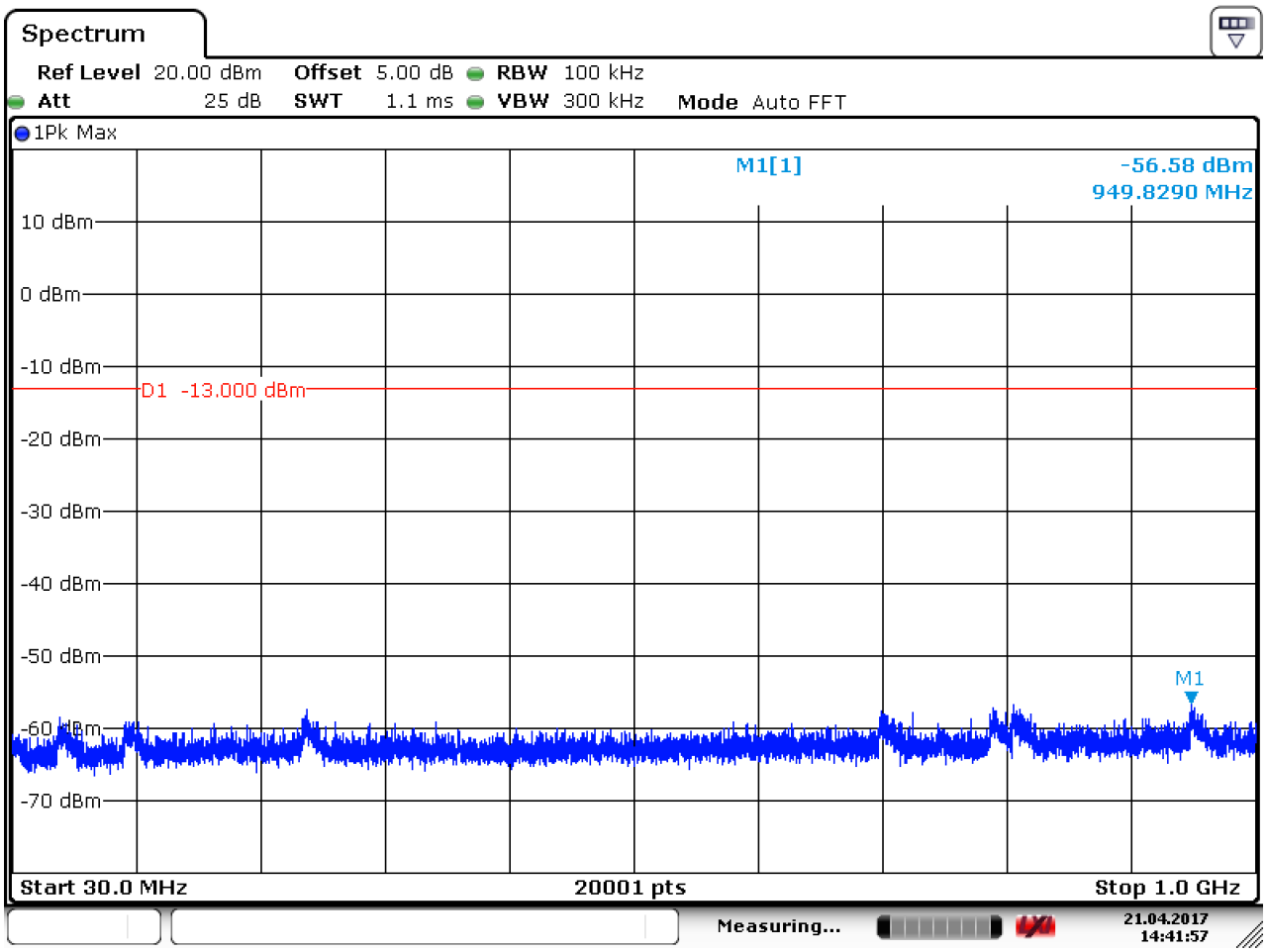


Date: 21.APR.2017 15:20:11

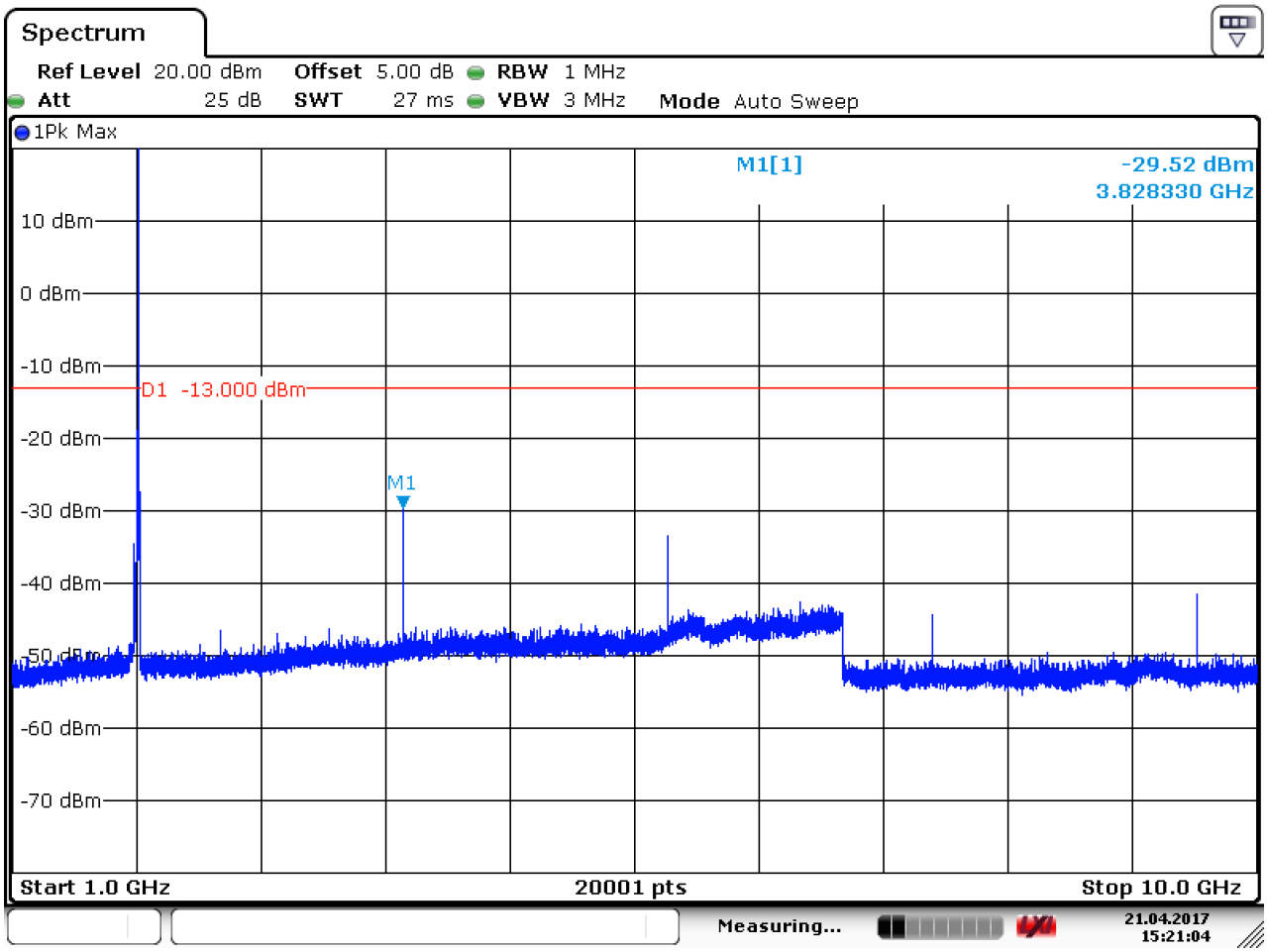


Date: 21.APR.2017 15:10:24

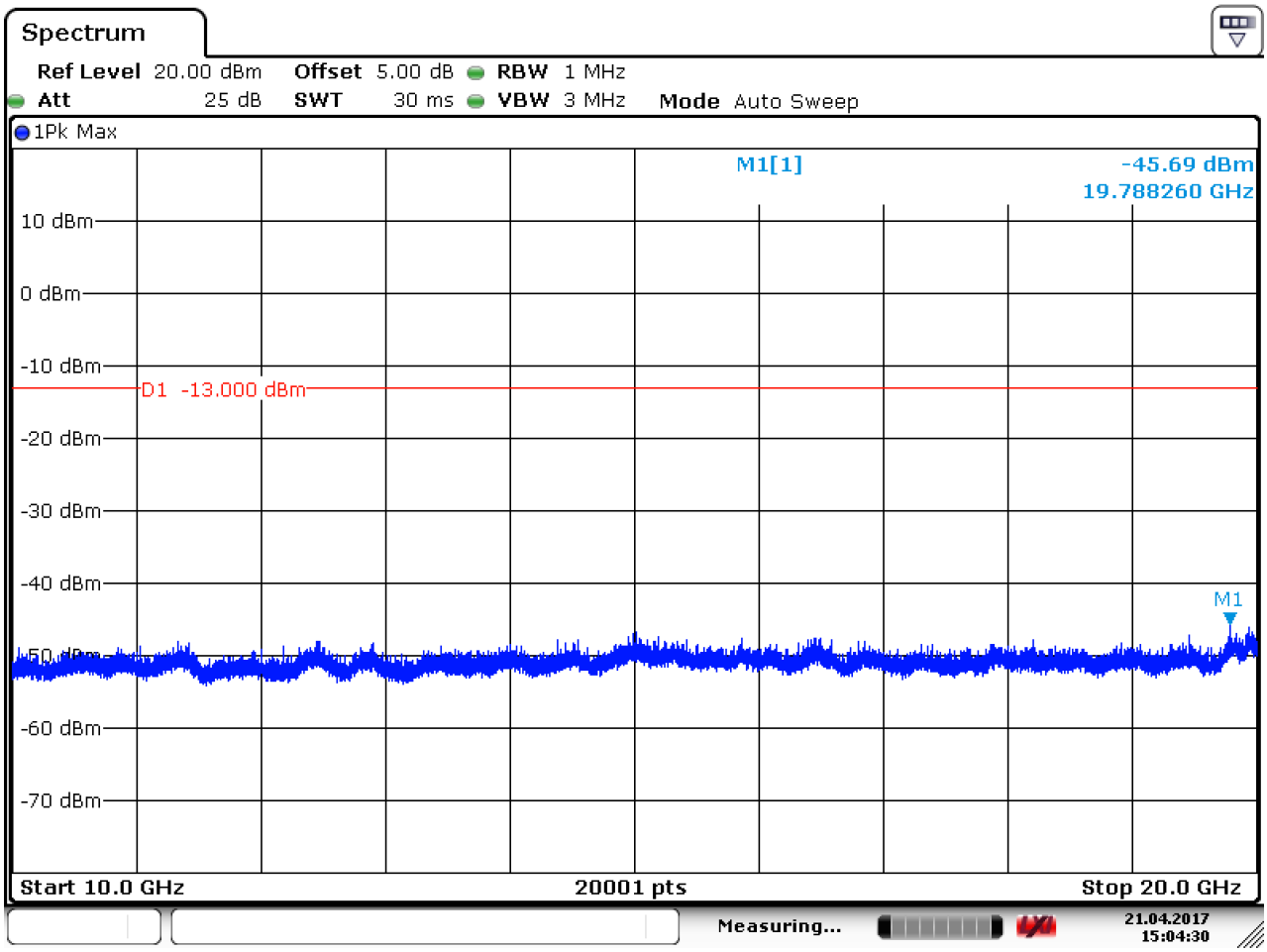
6.1.1.6.3 Test Channel = HCH



Date: 21.APR.2017 14:41:57



Date: 21.APR.2017 15:21:05



Date: 21.APR.2017 15:04:30

7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band25

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
5827.500	-67.26	-13.00	-54.26	Vertical
7290.000	-65.77	-13.00	-52.77	Vertical
8947.500	-65.63	-13.00	-52.63	Vertical
1232.000	-67.36	-13.00	-54.36	Horizontal
3585.000	-69.18	-13.00	-56.18	Horizontal
6022.500	-66.51	-13.00	-53.51	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1095.000	-67.81	-13.00	-54.81	Vertical
1551.000	-66.51	-13.00	-53.51	Vertical
1793.000	-63.66	-13.00	-50.66	Vertical
1661.000	-65.06	-13.00	-52.06	Horizontal
1991.000	-62.88	-13.00	-49.88	Horizontal
4657.500	-67.92	-13.00	-54.92	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1496.000	-66.58	-13.00	-53.58	Vertical
1738.000	-64.15	-13.00	-51.15	Vertical
3975.000	-68.39	-13.00	-55.39	Vertical
1408.000	-67.34	-13.00	-54.34	Horizontal
2656.000	-58.00	-13.00	-45.00	Horizontal
7485.000	-66.46	-13.00	-53.46	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
LTEband25	LTE/TM1 20MHz	LCH	TN	VL	-3.45	-0.00185	PASS
				VN	-1.12	-0.00060	PASS
				VH	-2.45	-0.00132	PASS
		MCH	TN	VL	-5.33	-0.00283	PASS
				VN	-1.40	-0.00074	PASS
				VH	-4.29	-0.00228	PASS
		HCH	TN	VL	-4.30	-0.00226	PASS
				VN	-6.20	-0.00325	PASS
				VH	-1.52	-0.00080	PASS
	LTE/TM2 20MHz	LCH	TN	VL	0.45	0.00024	PASS
				VN	-1.68	-0.00090	PASS
				VH	0.44	0.00024	PASS
		MCH	TN	VL	2.88	0.00153	PASS
				VN	2.41	0.00128	PASS
				VH	-6.12	-0.00325	PASS
		HCH	TN	VL	-5.43	-0.00285	PASS
				VN	-1.31	-0.00069	PASS
				VH	-2.65	-0.00139	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
LTEband25	LTE/TM1 20MHz	LCH	VN	-30	2.72	0.00146	PASS
				-20	1.60	0.00086	PASS
				-10	0.63	0.00034	PASS
				0	-2.88	-0.00155	PASS
				10	0.57	0.00031	PASS
				20	-1.82	-0.00098	PASS
				30	3.70	0.00199	PASS
				40	-5.02	-0.00270	PASS
				50	-6.03	-0.00324	PASS
		MCH	VN	-30	-2.80	-0.00149	PASS
				-20	-3.28	-0.00174	PASS
				-10	-0.39	-0.00021	PASS
				0	-4.31	-0.00229	PASS
				10	2.31	0.00123	PASS
				20	1.72	0.00091	PASS
				30	1.63	0.00087	PASS
				40	2.13	0.00113	PASS
				50	-4.34	-0.00231	PASS
		HCH	VN	-30	-2.12	-0.00111	PASS
				-20	0.68	0.00036	PASS
				-10	3.50	0.00184	PASS
				0	-3.32	-0.00174	PASS
				10	1.29	0.00068	PASS
				20	-4.78	-0.00251	PASS
				30	2.22	0.00117	PASS
				40	-2.68	-0.00141	PASS
				50	-5.60	-0.00294	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband25	LTE/TM2 20MHz	LCH	VN	-30	-2.39	-0.00128	PASS
				-20	-6.96	-0.00374	PASS
				-10	-3.97	-0.00213	PASS
				0	2.30	0.00124	PASS
				10	-5.65	-0.00304	PASS
				20	-2.11	-0.00113	PASS
				30	-5.96	-0.00320	PASS
				40	-5.51	-0.00296	PASS
				50	-4.94	-0.00266	PASS
		MCH	VN	-30	-3.32	-0.00176	PASS
				-20	-4.29	-0.00228	PASS
				-10	-2.34	-0.00124	PASS
				0	-7.76	-0.00412	PASS
				10	1.60	0.00085	PASS
				20	-2.43	-0.00129	PASS
				30	-4.13	-0.00219	PASS
				40	-5.24	-0.00278	PASS
				50	-6.33	-0.00336	PASS
		HCH	VN	-30	-3.25	-0.00171	PASS
				-20	-4.54	-0.00238	PASS
				-10	-7.22	-0.00379	PASS
				0	1.30	0.00068	PASS
				10	-3.37	-0.00177	PASS
				20	-4.03	-0.00212	PASS
				30	-3.12	-0.00164	PASS
				40	-2.89	-0.00152	PASS
				50	-5.17	-0.00271	PASS

The End