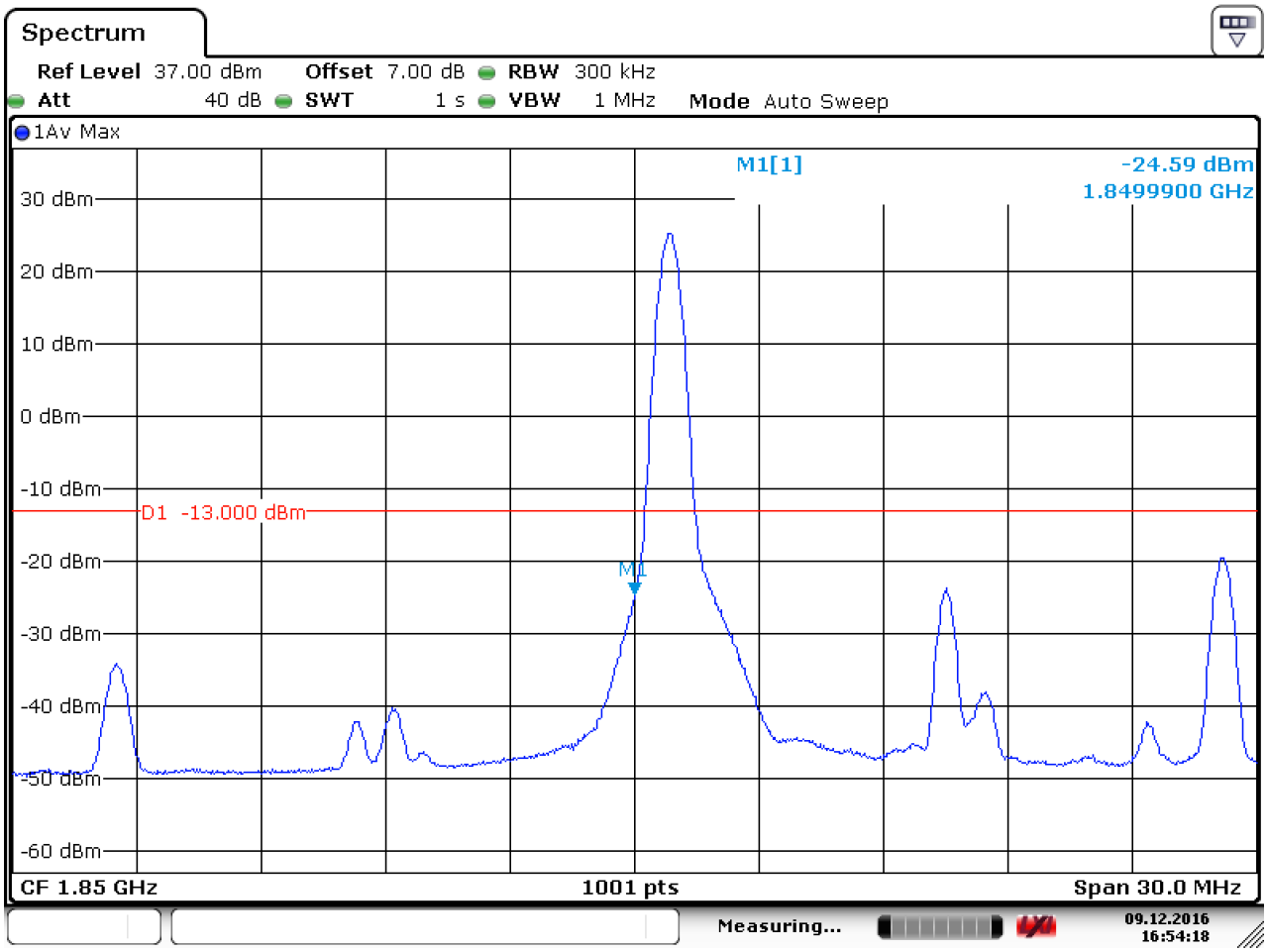
5.1.1.10 Test Mode = LTE/TM2 15MHz

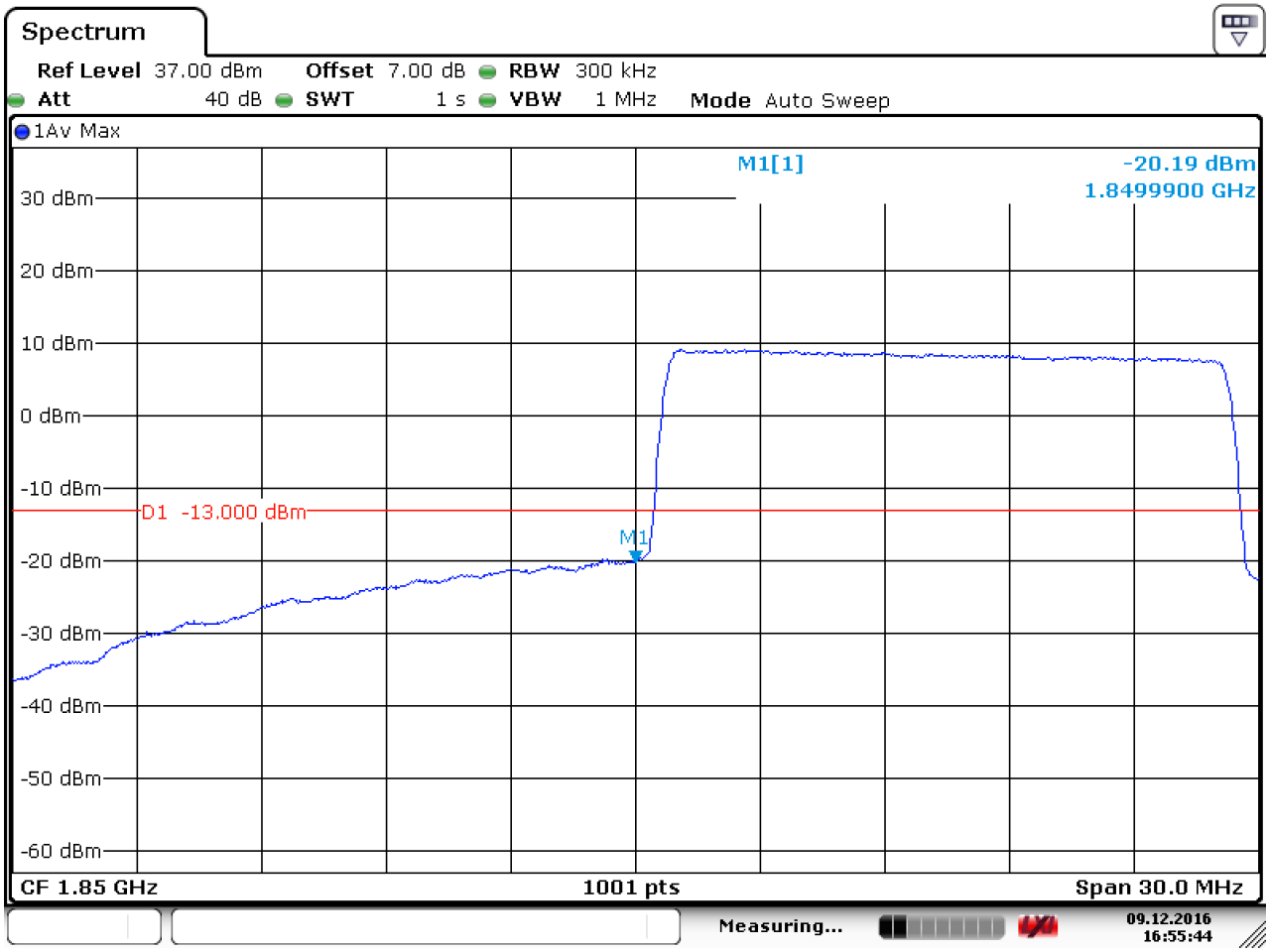
5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



Date: 9.DEC.2016 16:54:18

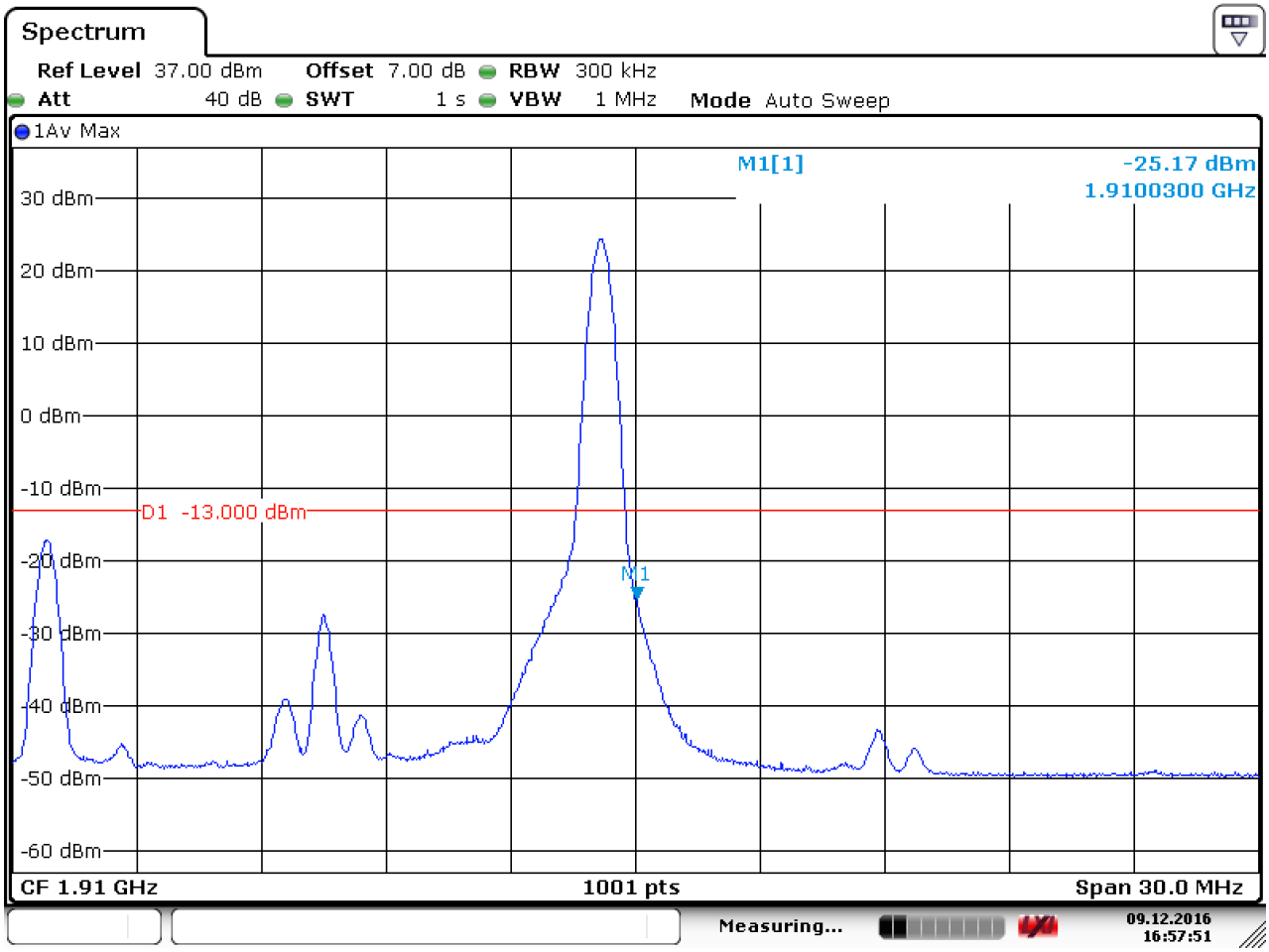
5.1.1.10.1.2 Test RB=75RB



Date: 9.DEC.2016 16:55:44

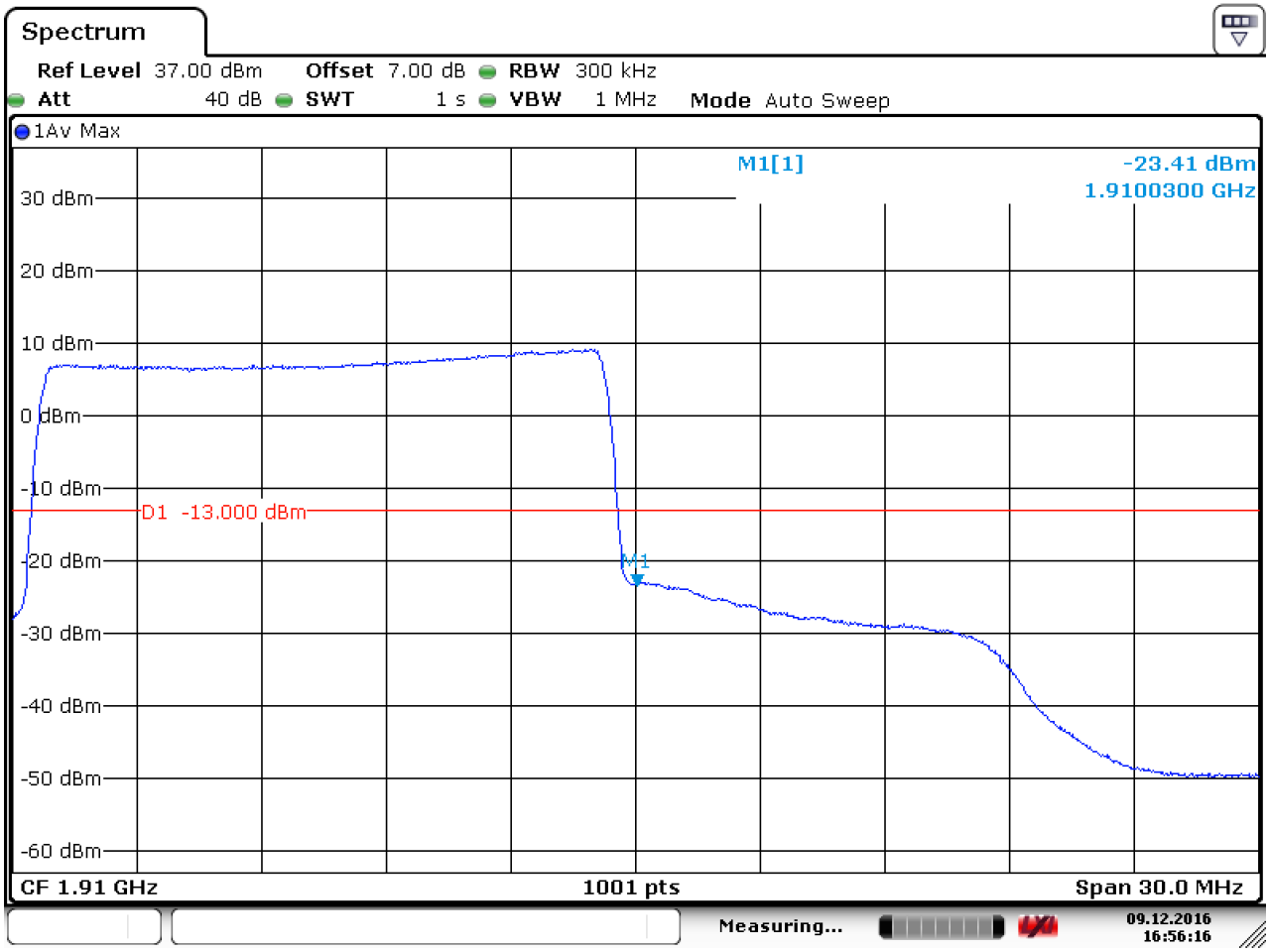
5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 9.DEC.2016 16:57:51

5.1.1.10.2.2 Test RB=75RB

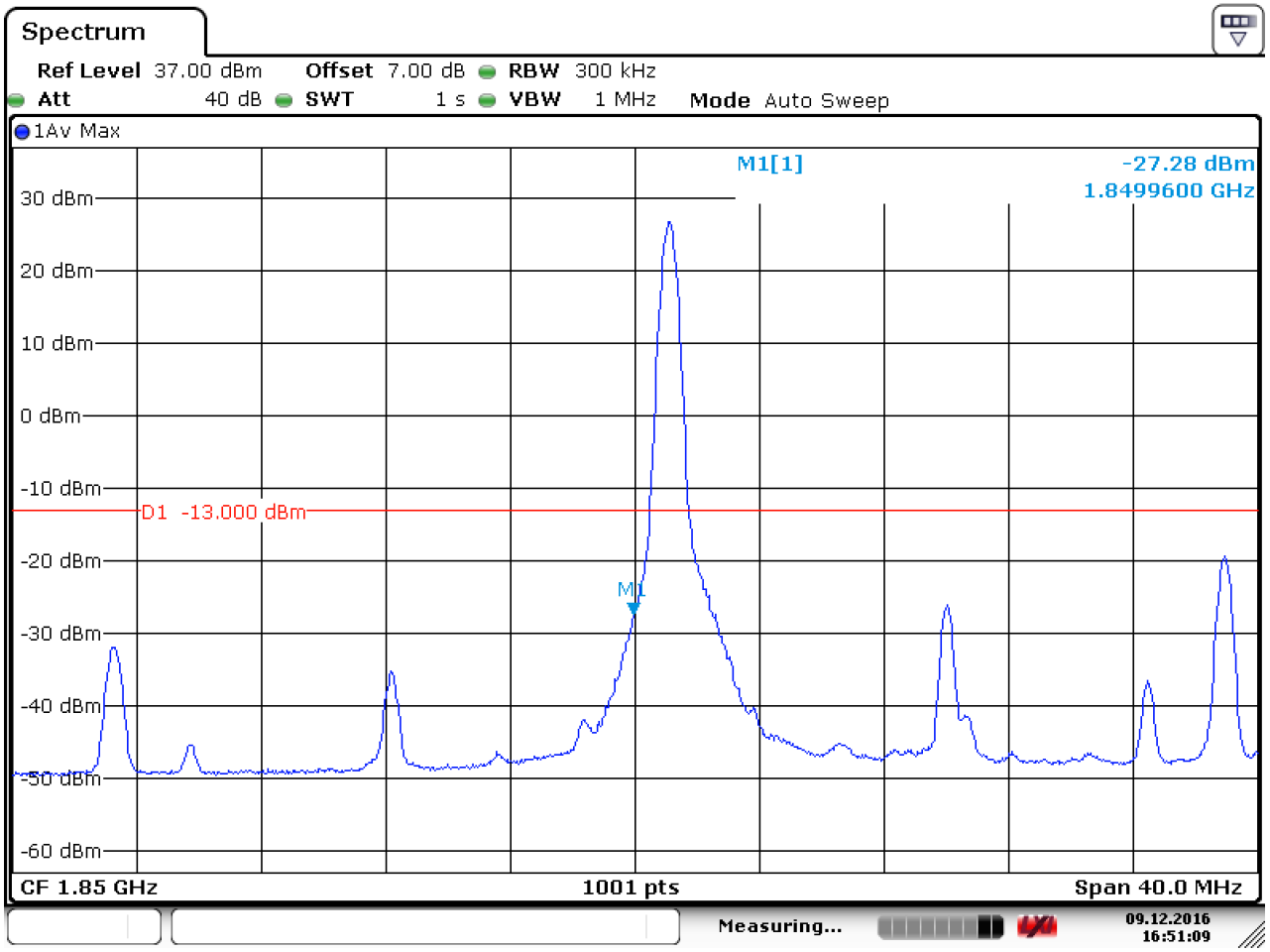


Date: 9.DEC.2016 16:56:16

5.1.1.11 Test Mode = LTE/TM1 20MHz

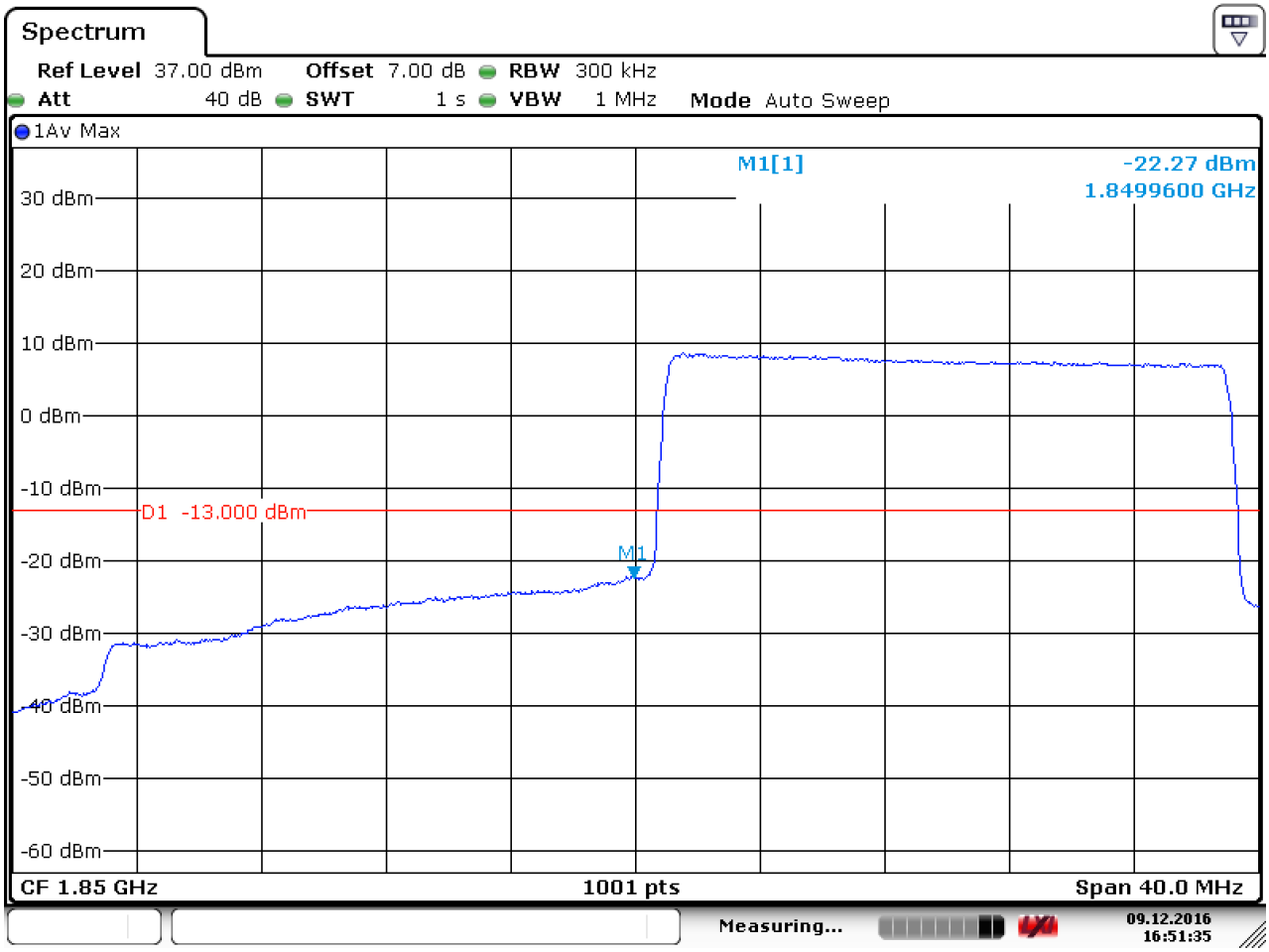
5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



Date: 9.DEC.2016 16:51:09

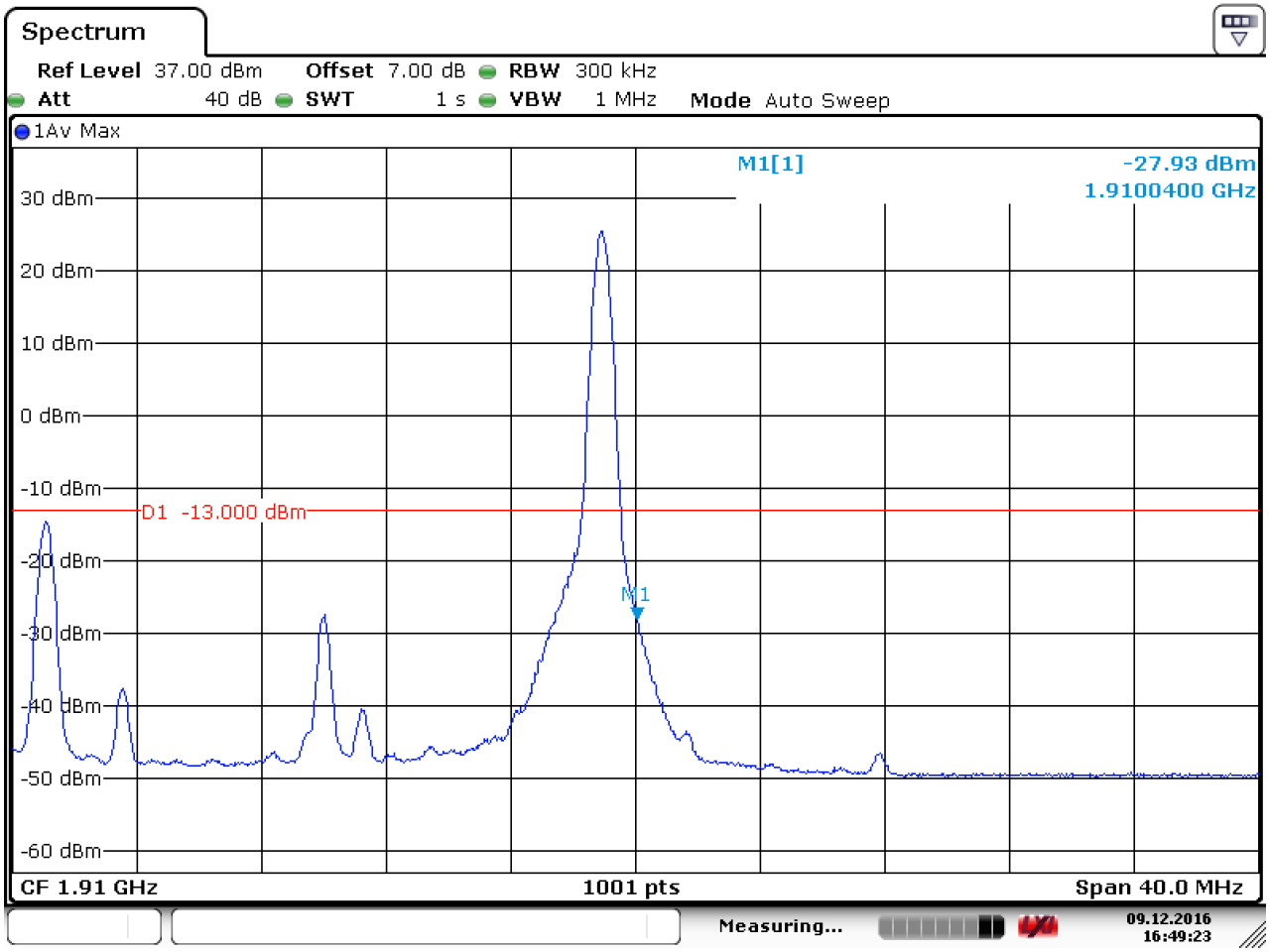
5.1.1.11.1.2 Test RB=100RB



Date: 9.DEC.2016 16:51:35

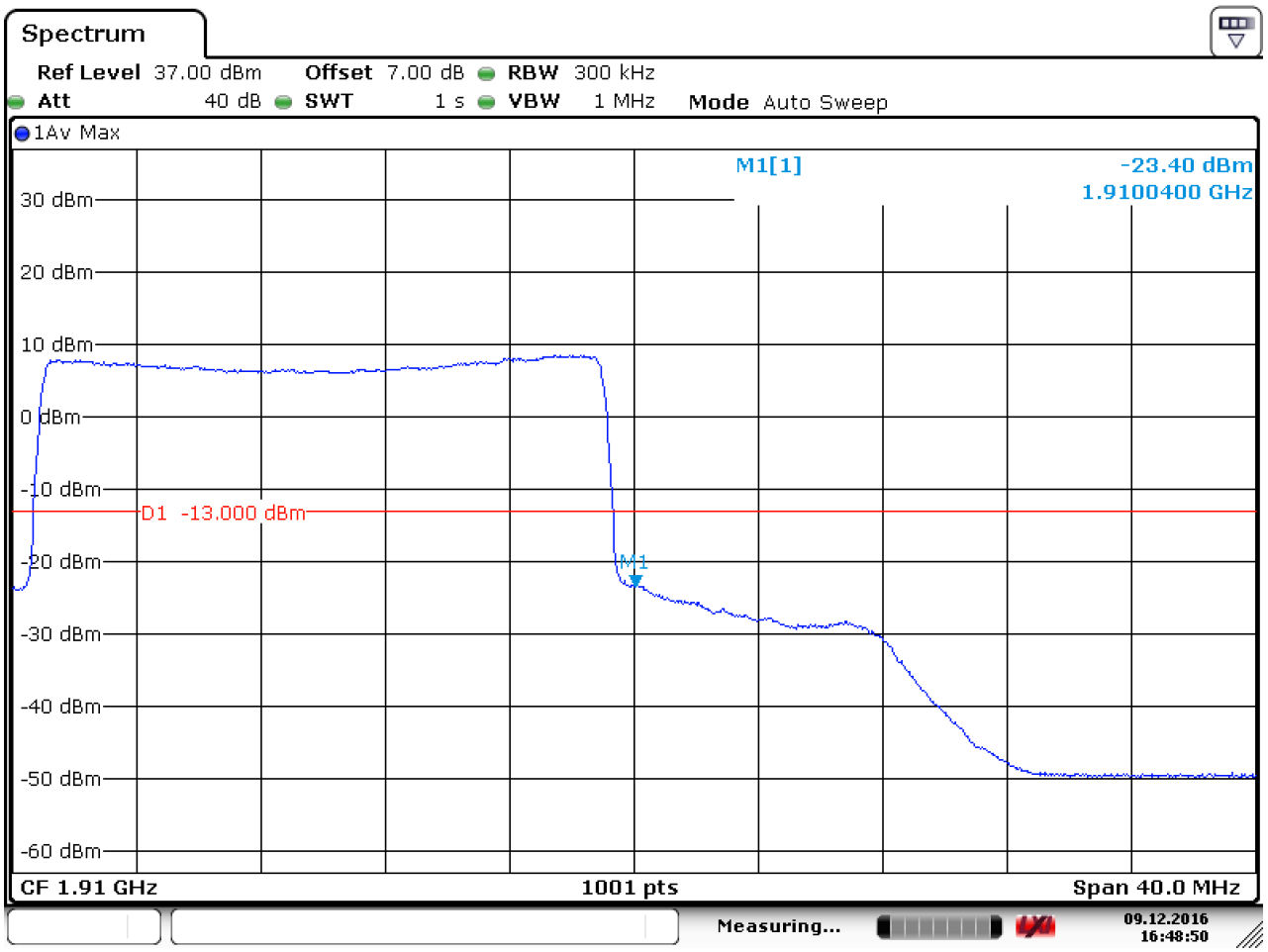
5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



Date: 9.DEC.2016 16:49:23

5.1.1.11.2.2 Test RB=100RB

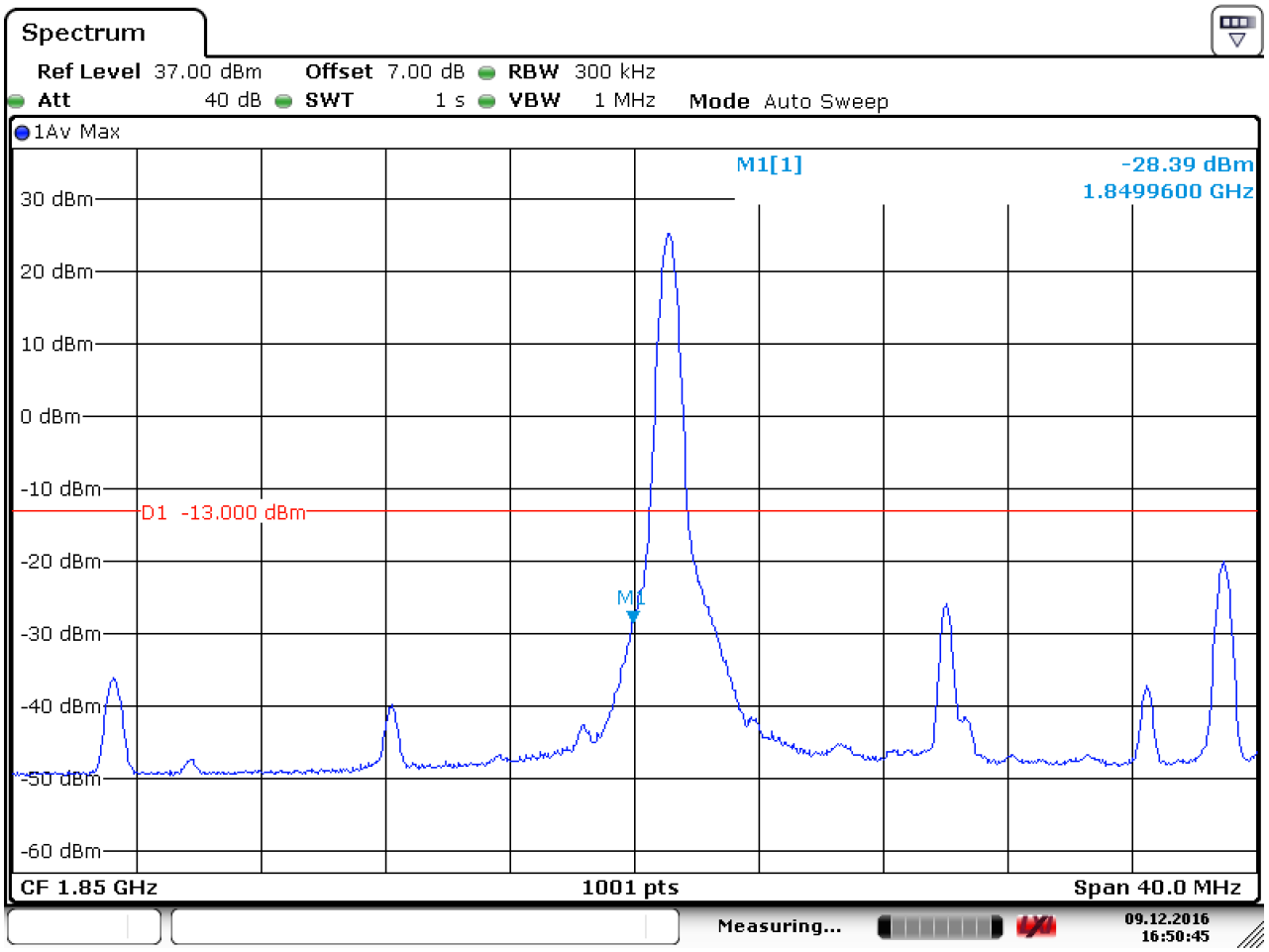


Date: 9.DEC.2016 16:48:51

5.1.1.12 Test Mode = LTE/TM2 20MHz

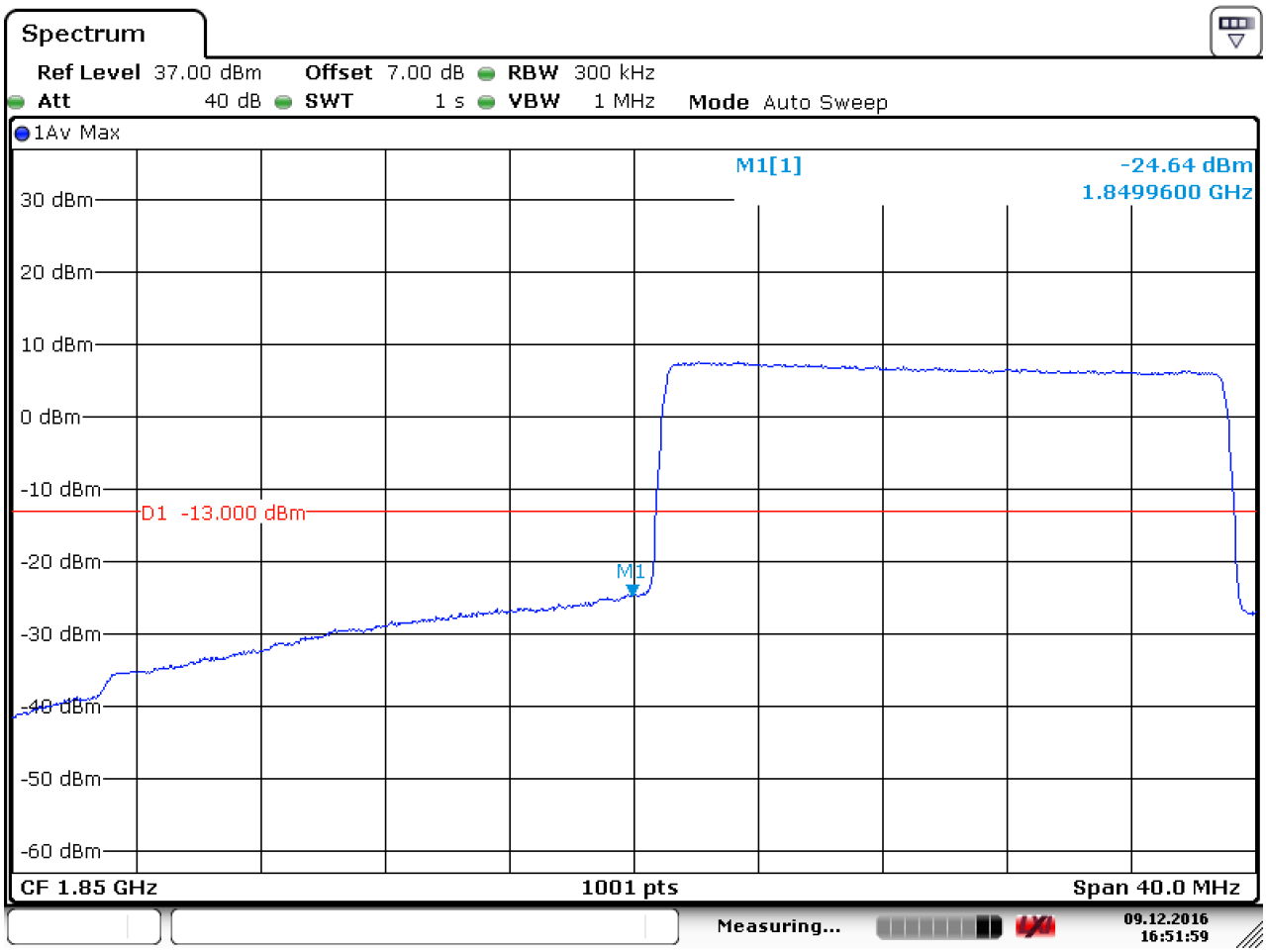
5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



Date: 9.DEC.2016 16:50:45

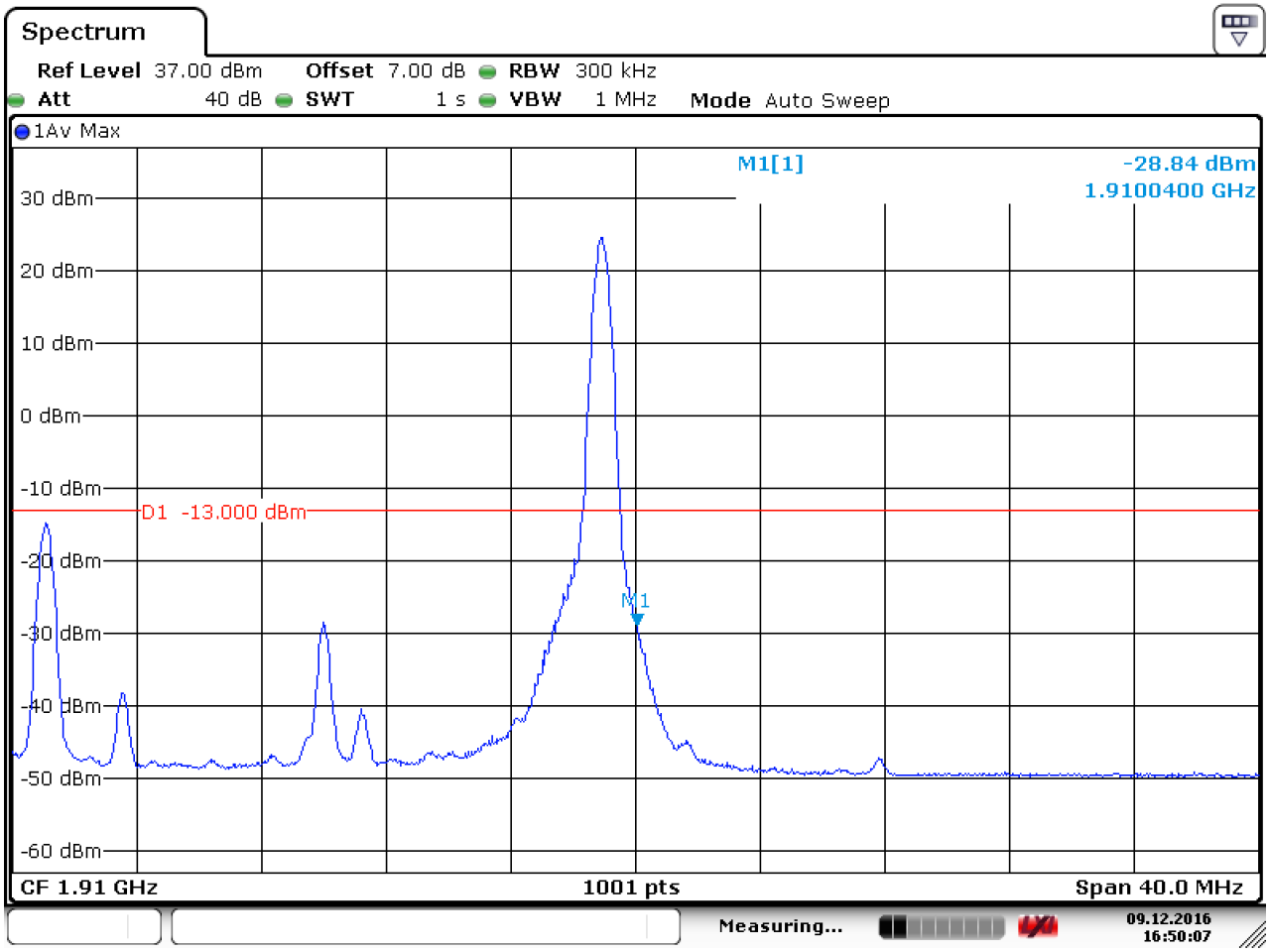
5.1.1.12.1.2 Test RB=100RB



Date: 9.DEC.2016 16:51:59

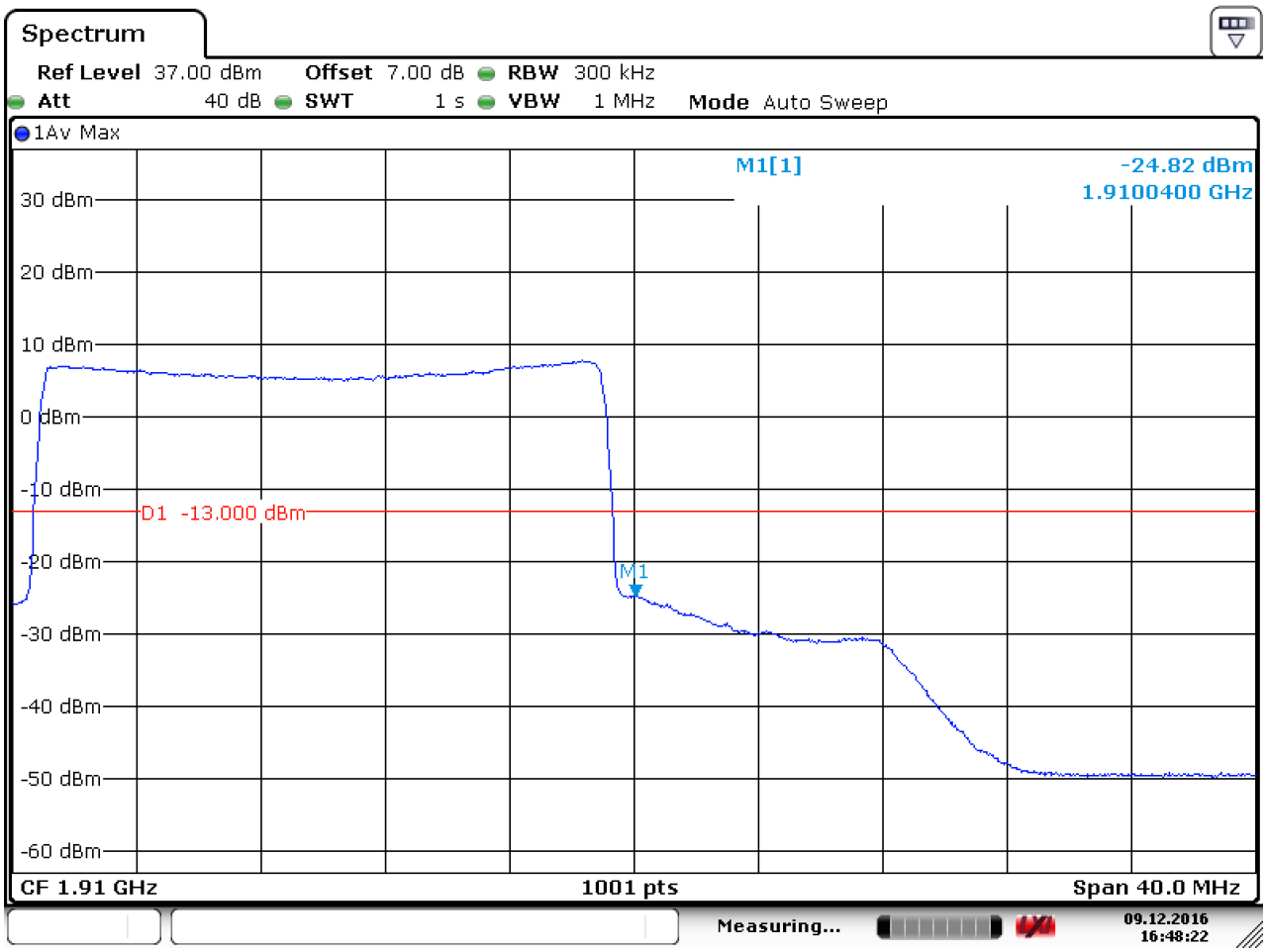
5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



Date: 9.DEC.2016 16:50:08

5.1.1.12.2.2 Test RB=100RB



Date: 9.DEC.2016 16:48:22

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.

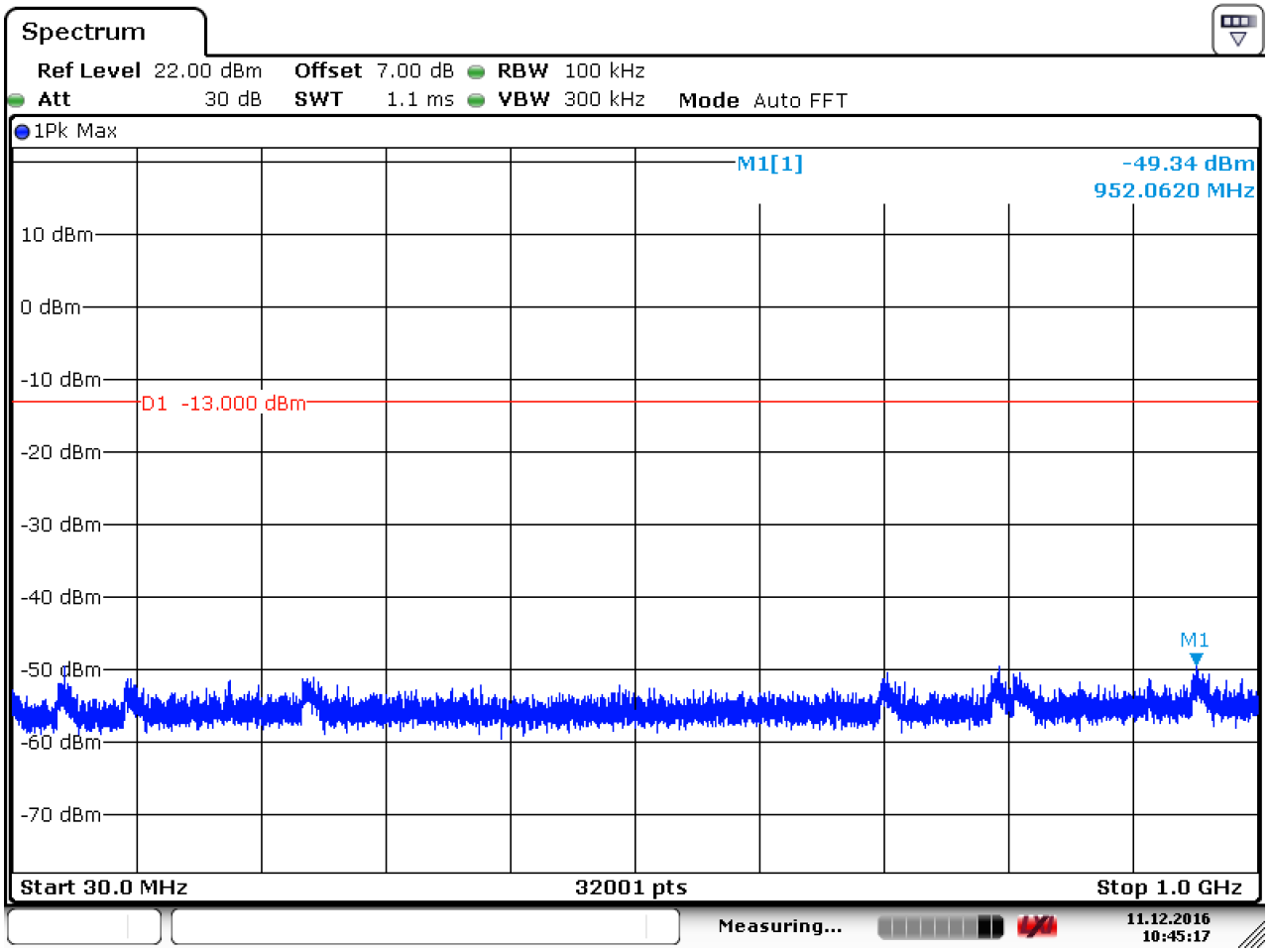
Part I - Test Plots

6.1 For LTE

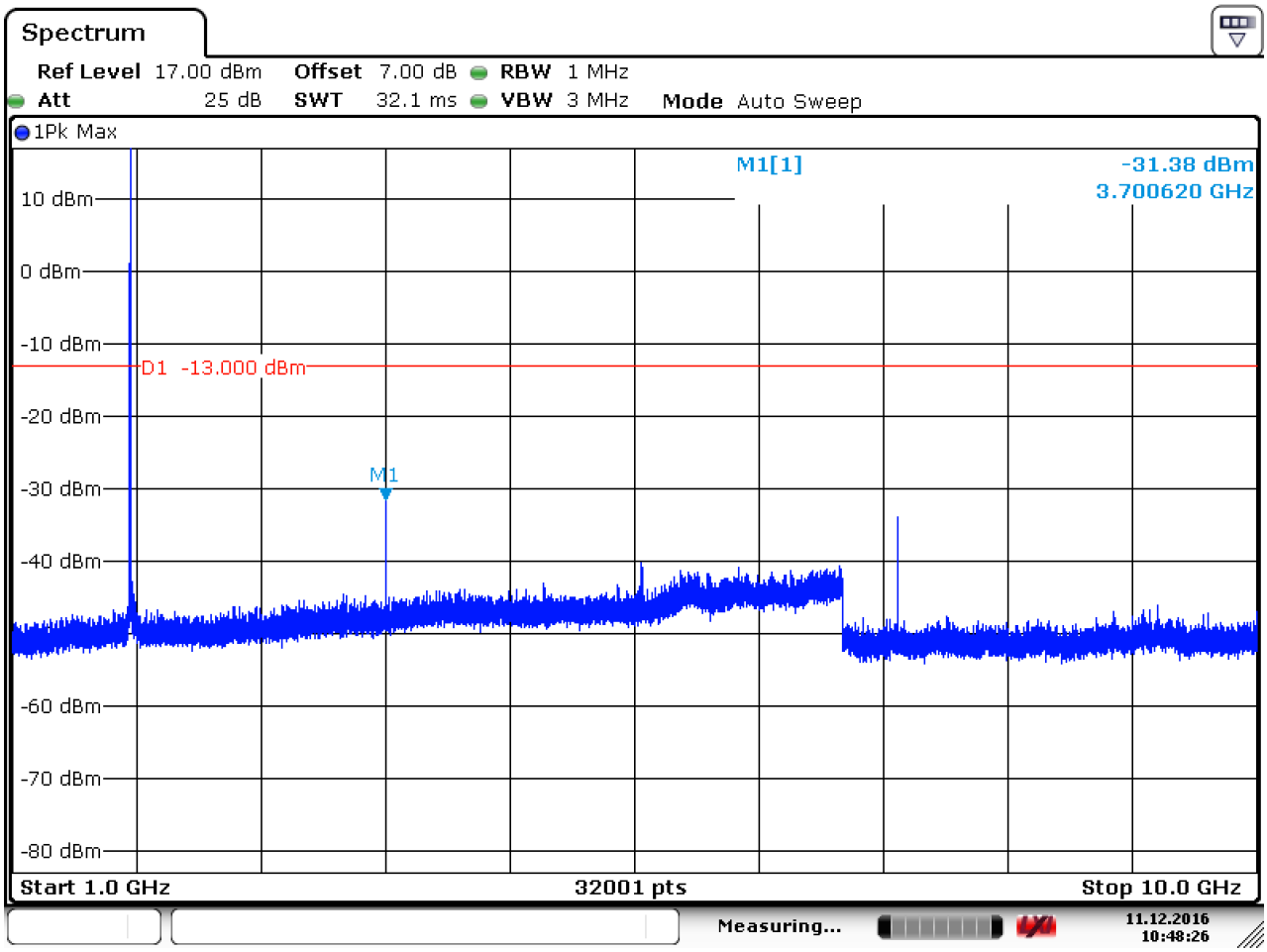
6.1.1 Test Band = LTE band2

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

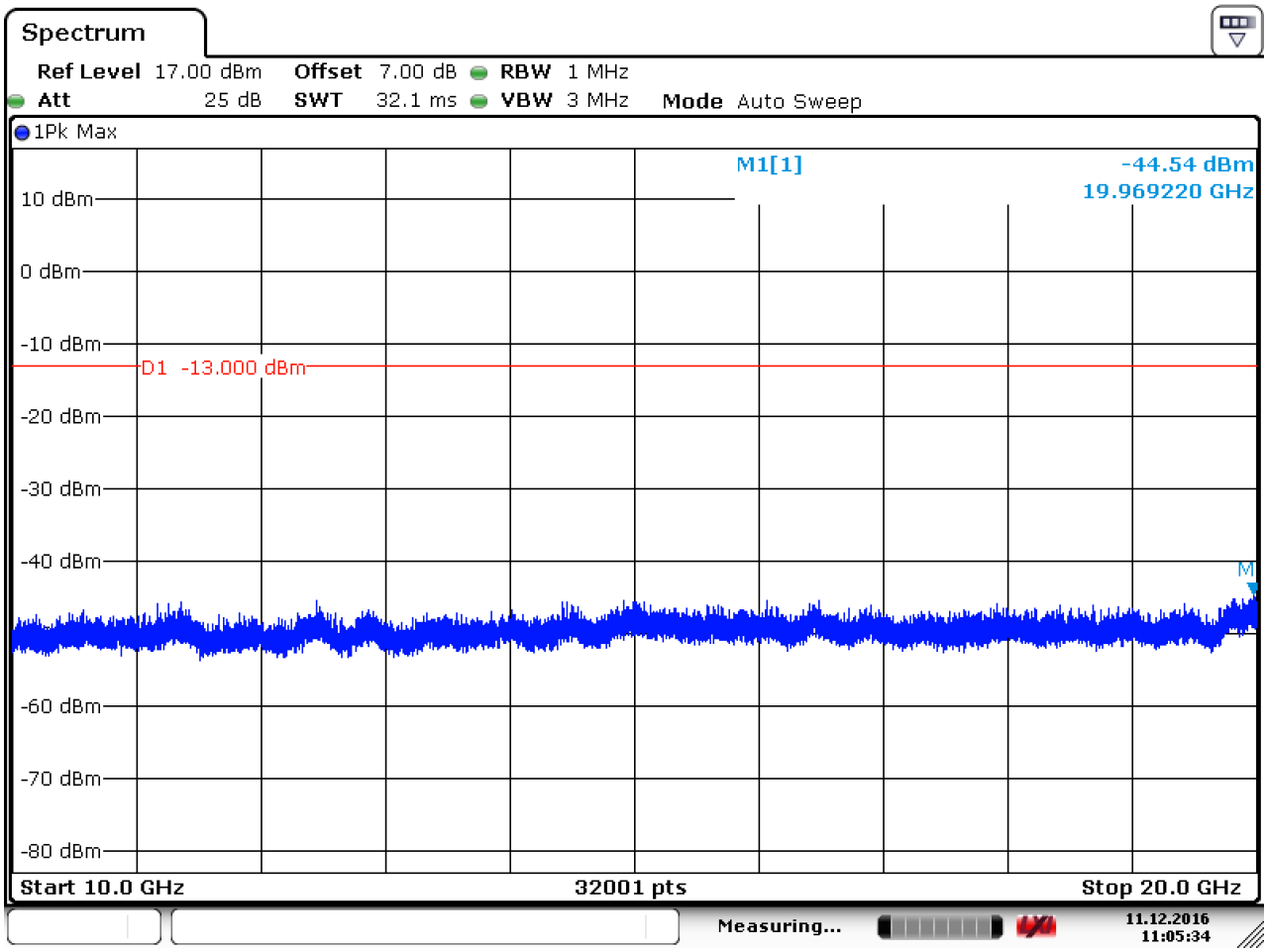
6.1.1.1.1 Test Channel = LCH



Date: 11.DEC.2016 10:45:17

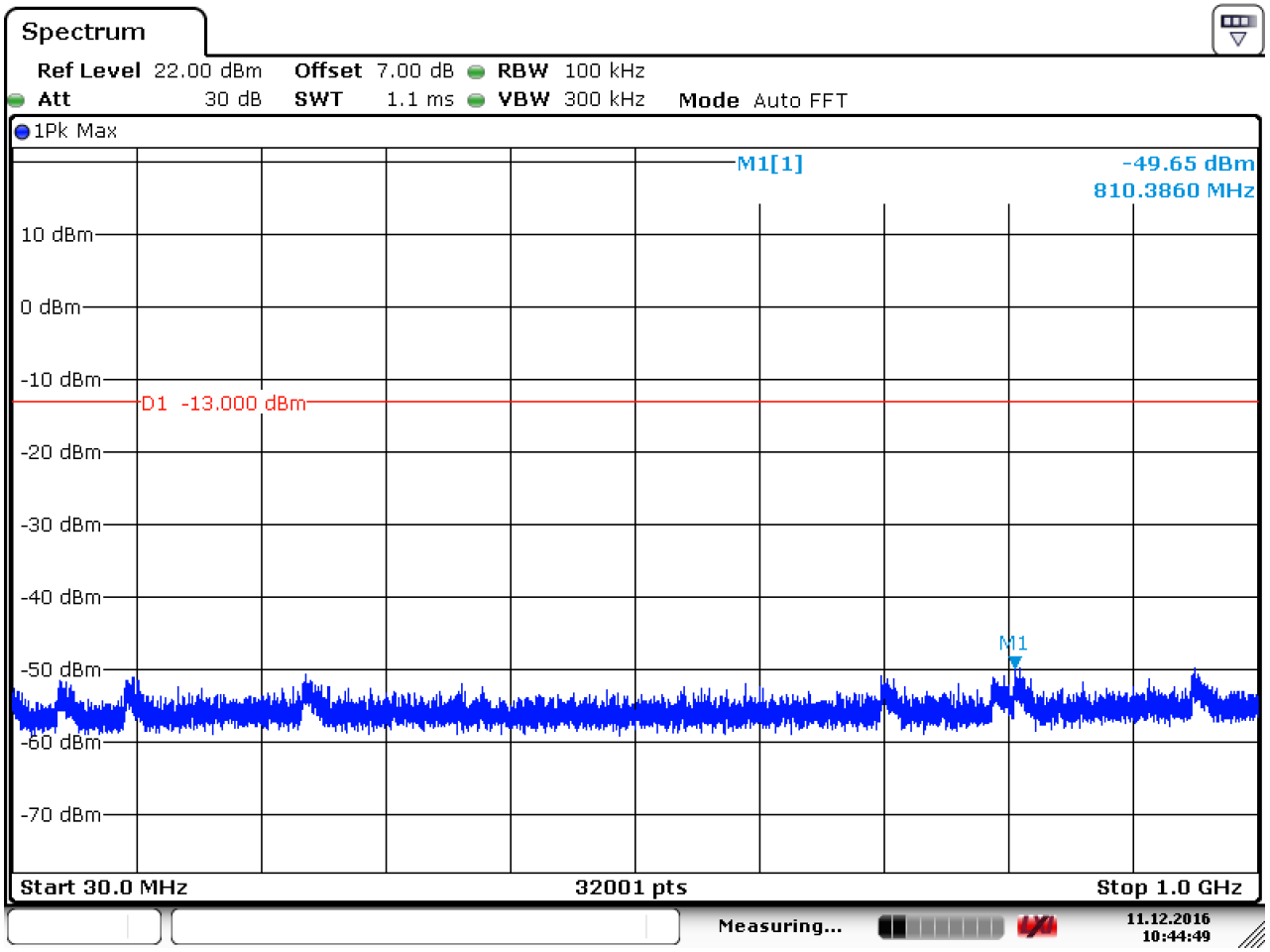


Date: 11.DEC.2016 10:48:26

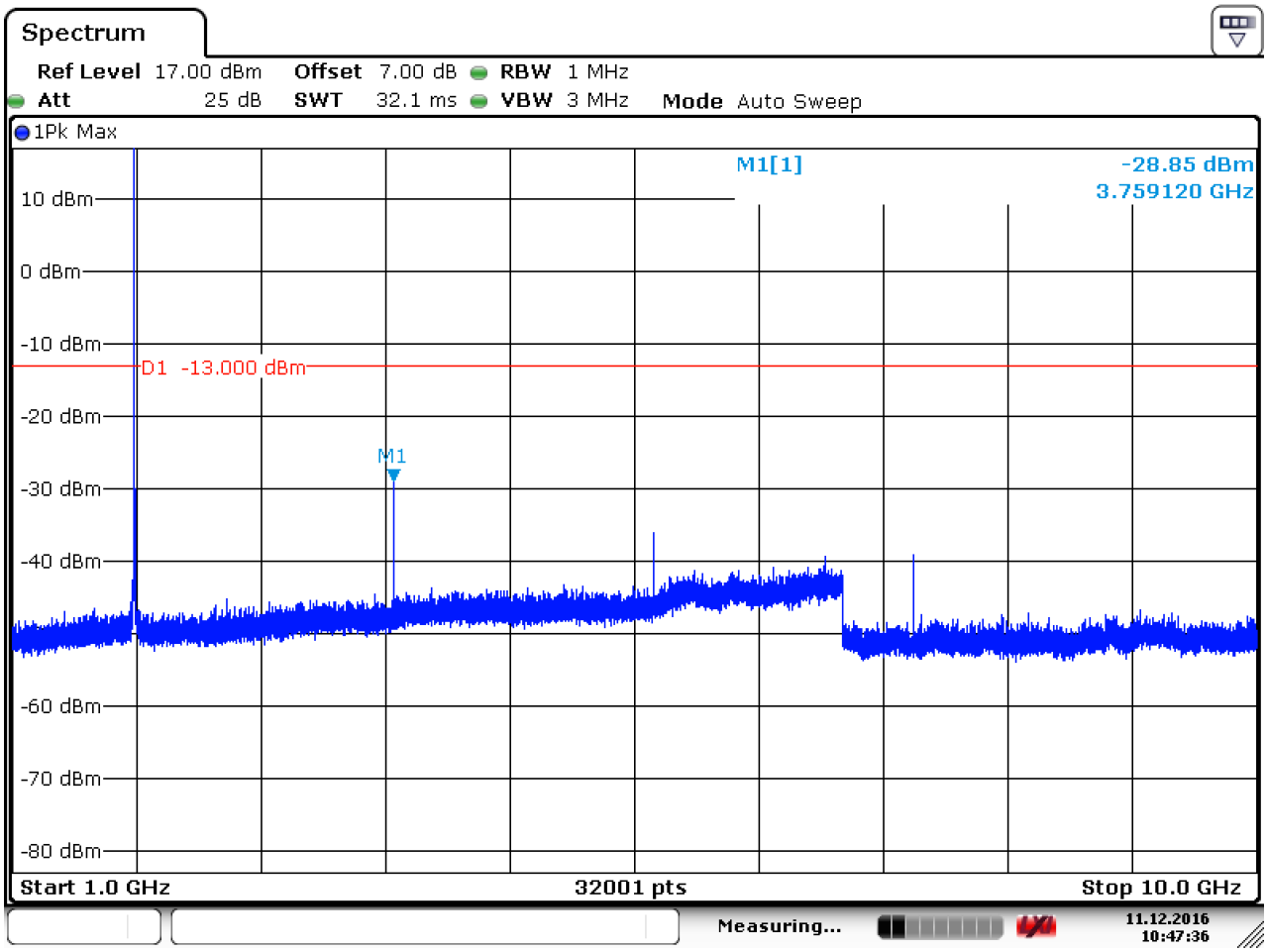


Date: 11.DEC.2016 11:05:34

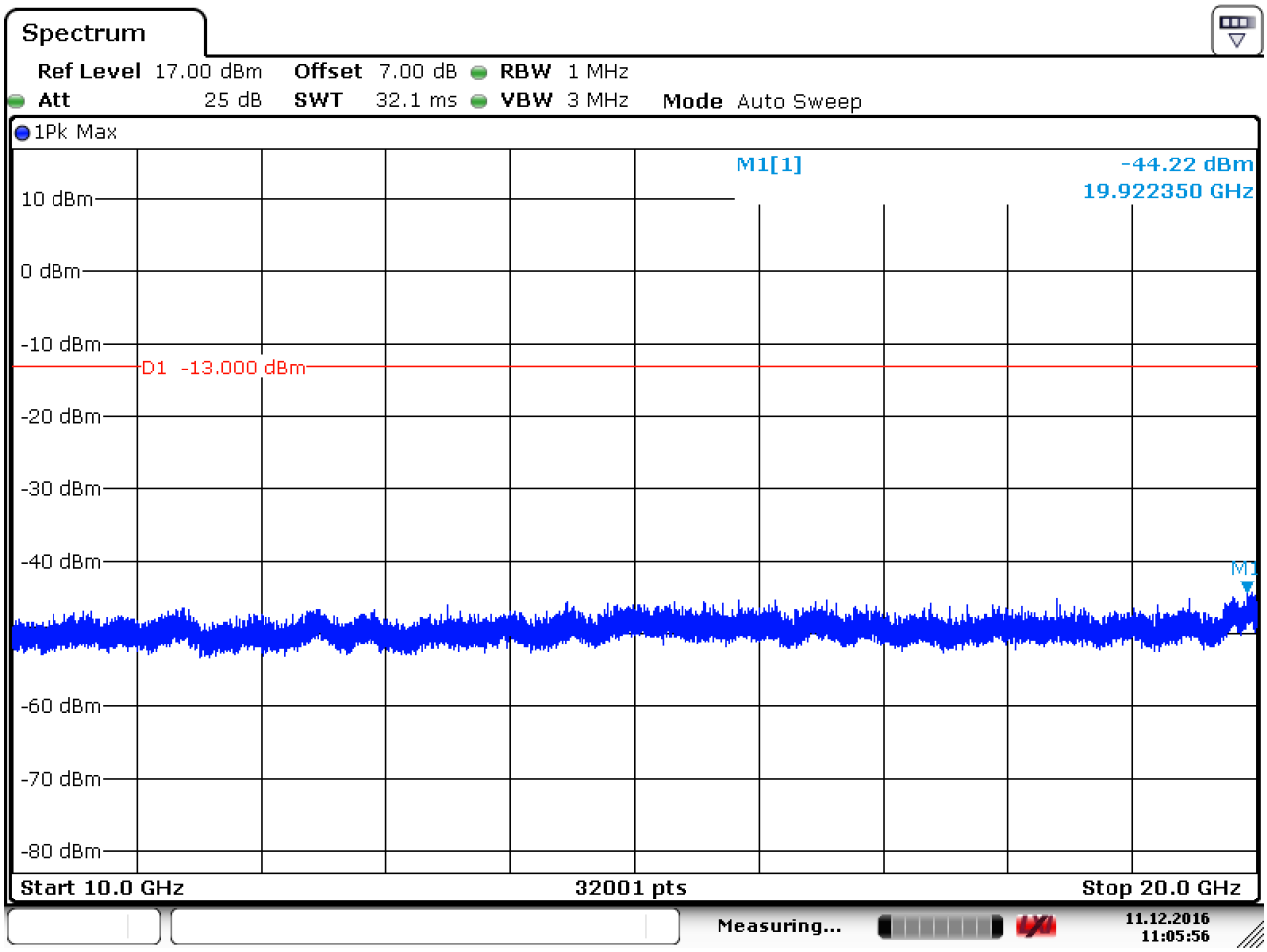
6.1.1.1.2 Test Channel = MCH



Date: 11.DEC.2016 10:44:49

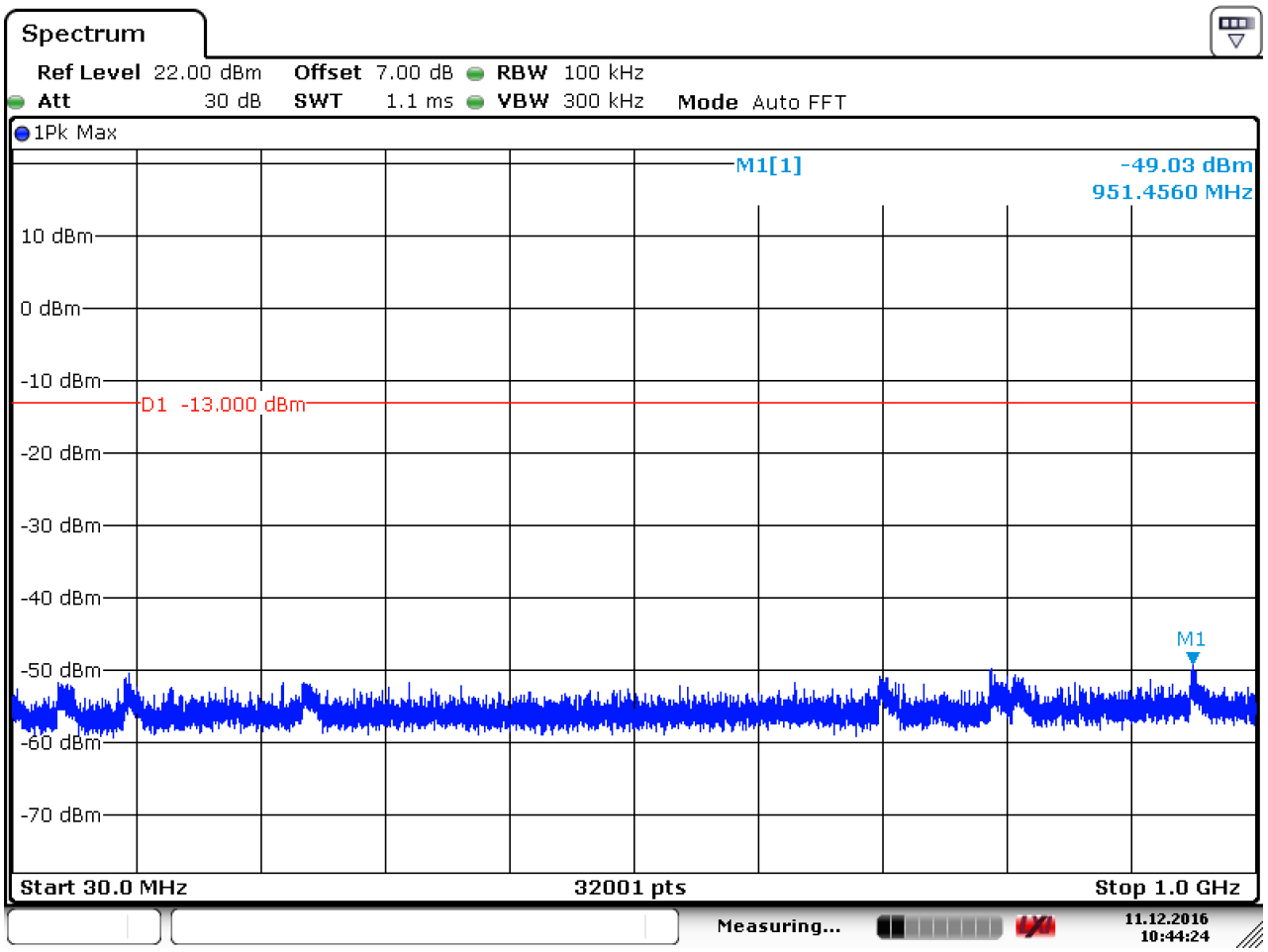


Date: 11.DEC.2016 10:47:36

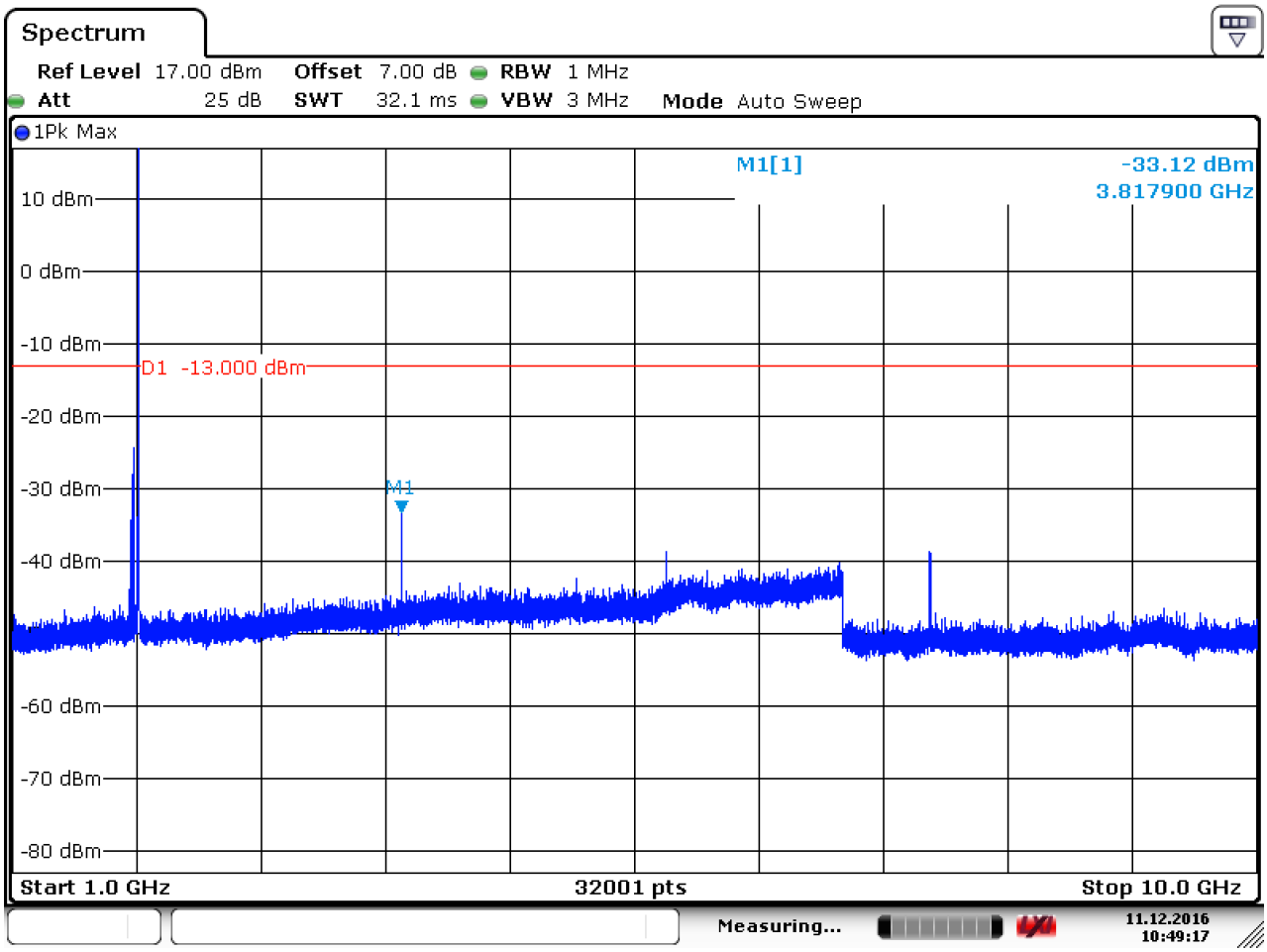


Date: 11.DEC.2016 11:05:56

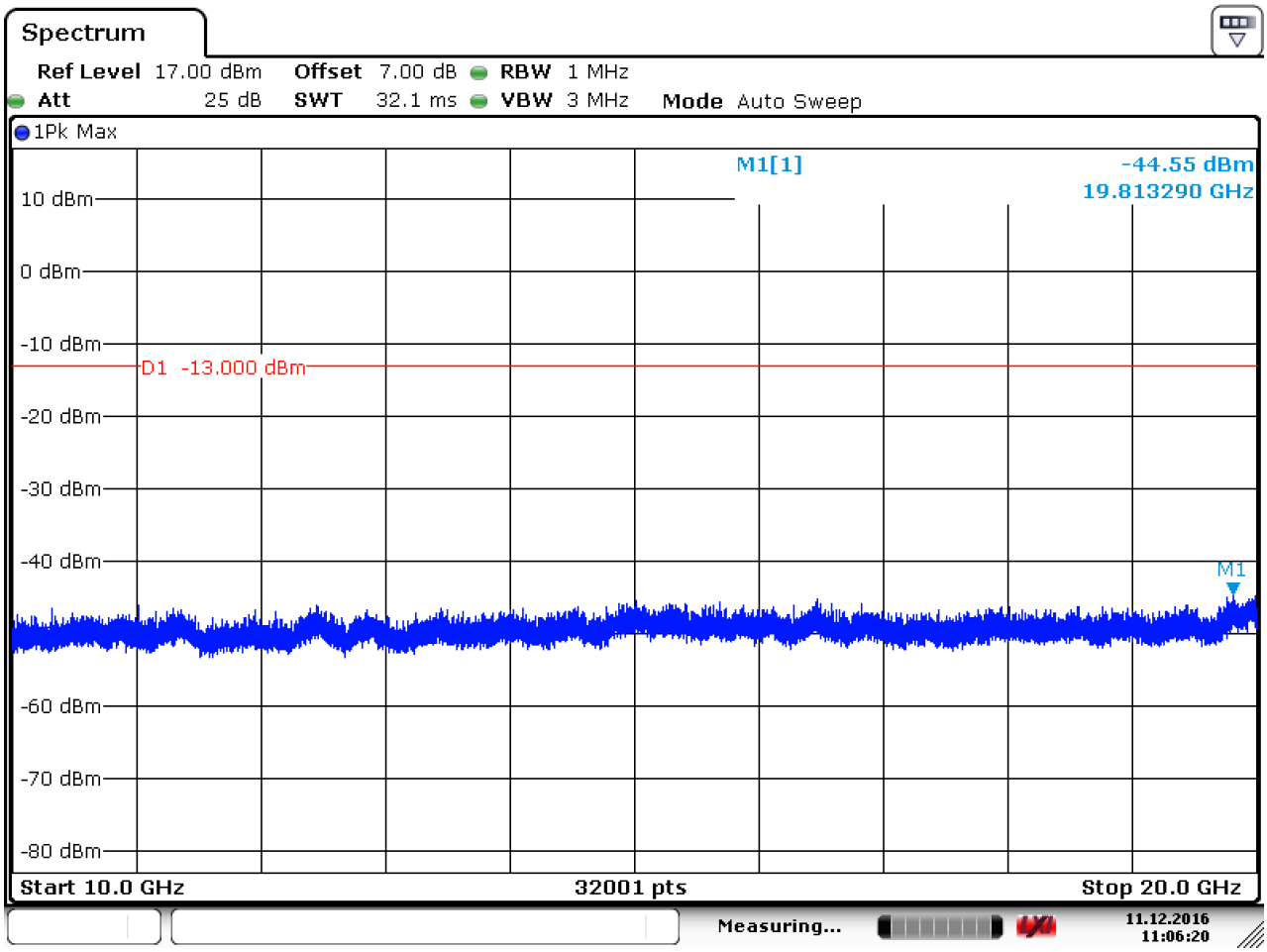
6.1.1.1.3 Test Channel = HCH



Date: 11.DEC.2016 10:44:25



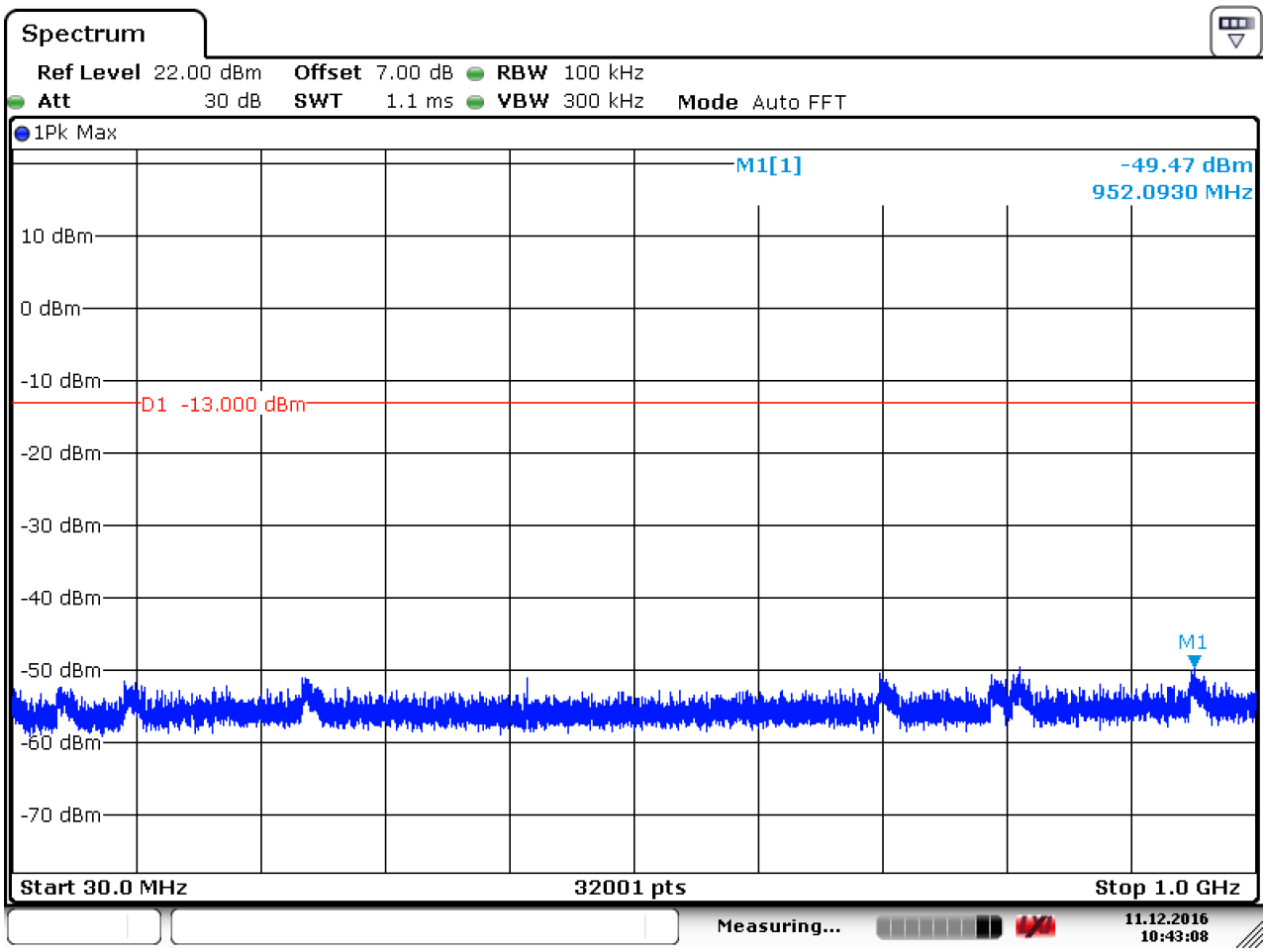
Date: 11.DEC.2016 10:49:17



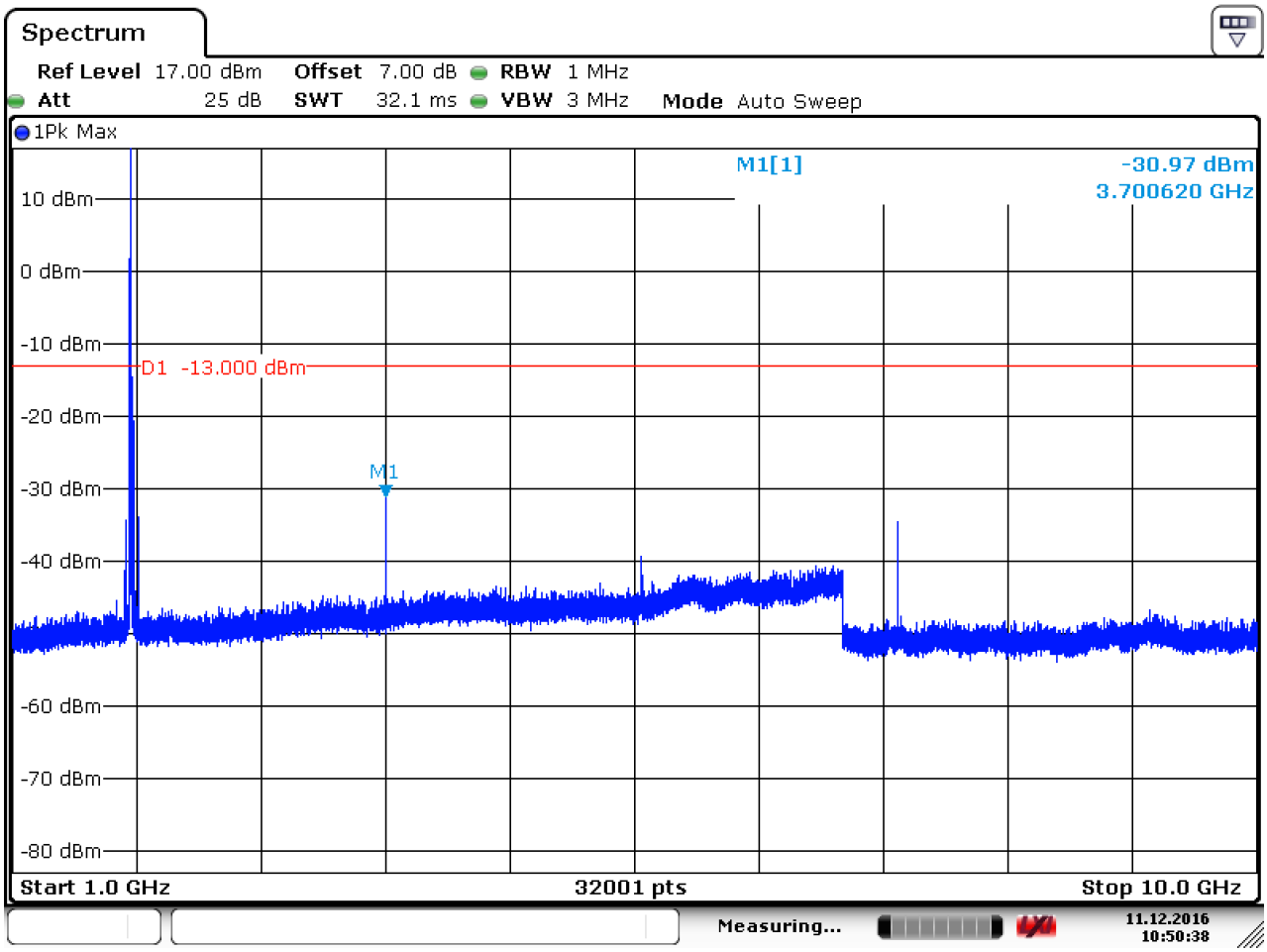
Date: 11.DEC.2016 11:06:21

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

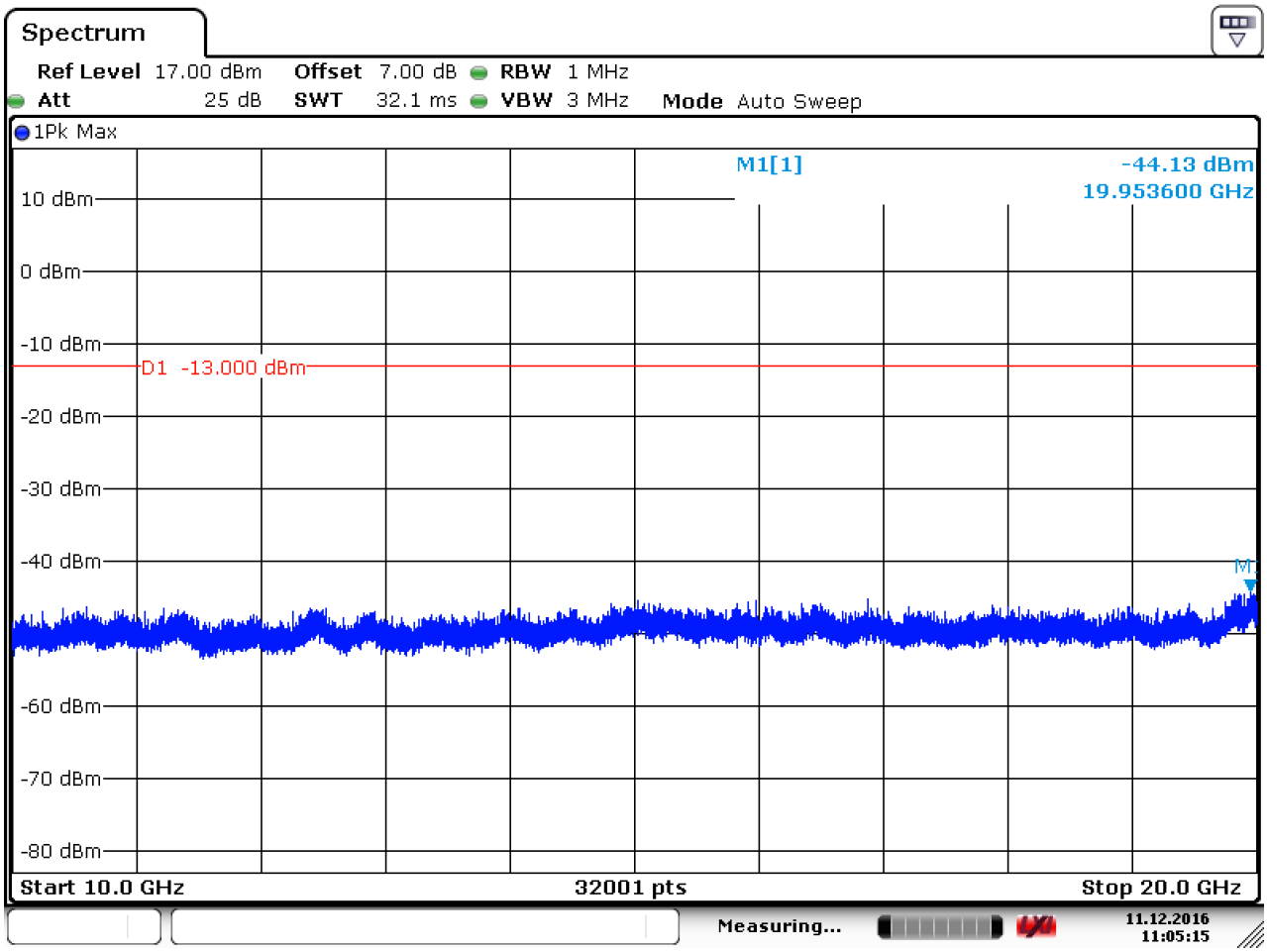
6.1.1.2.1 Test Channel = LCH



Date: 11.DEC.2016 10:43:09

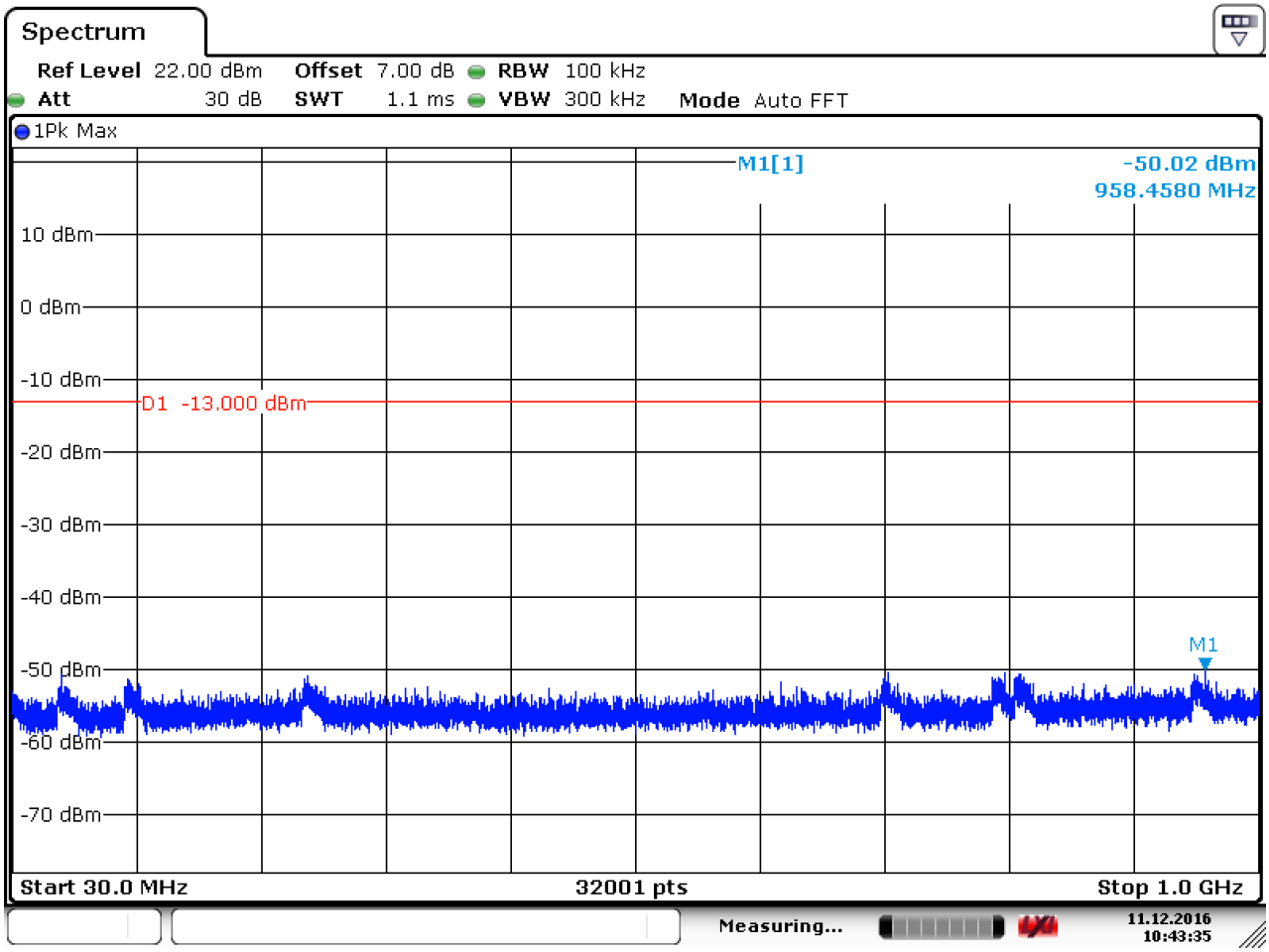


Date: 11.DEC.2016 10:50:38

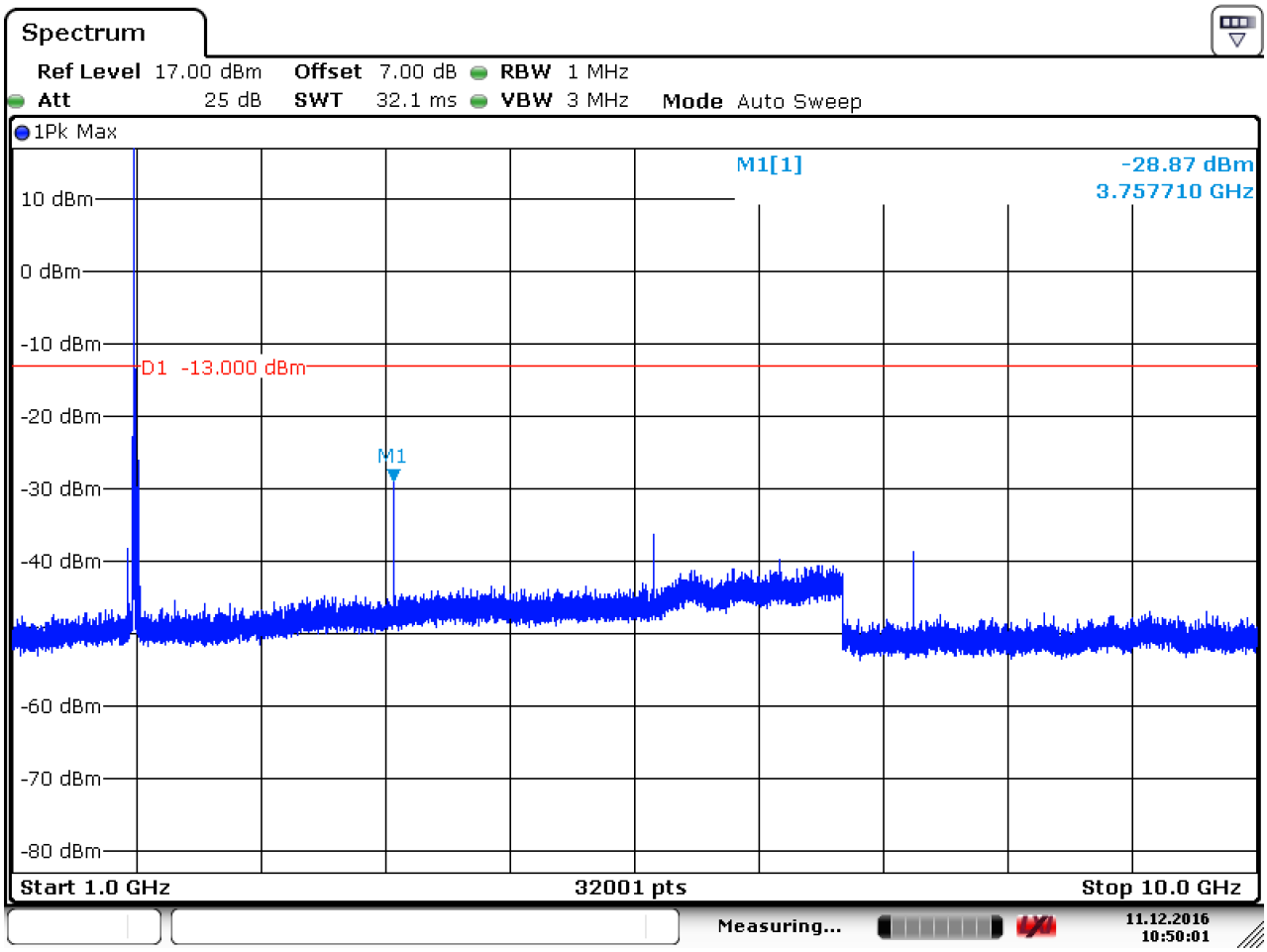


Date: 11.DEC.2016 11:05:16

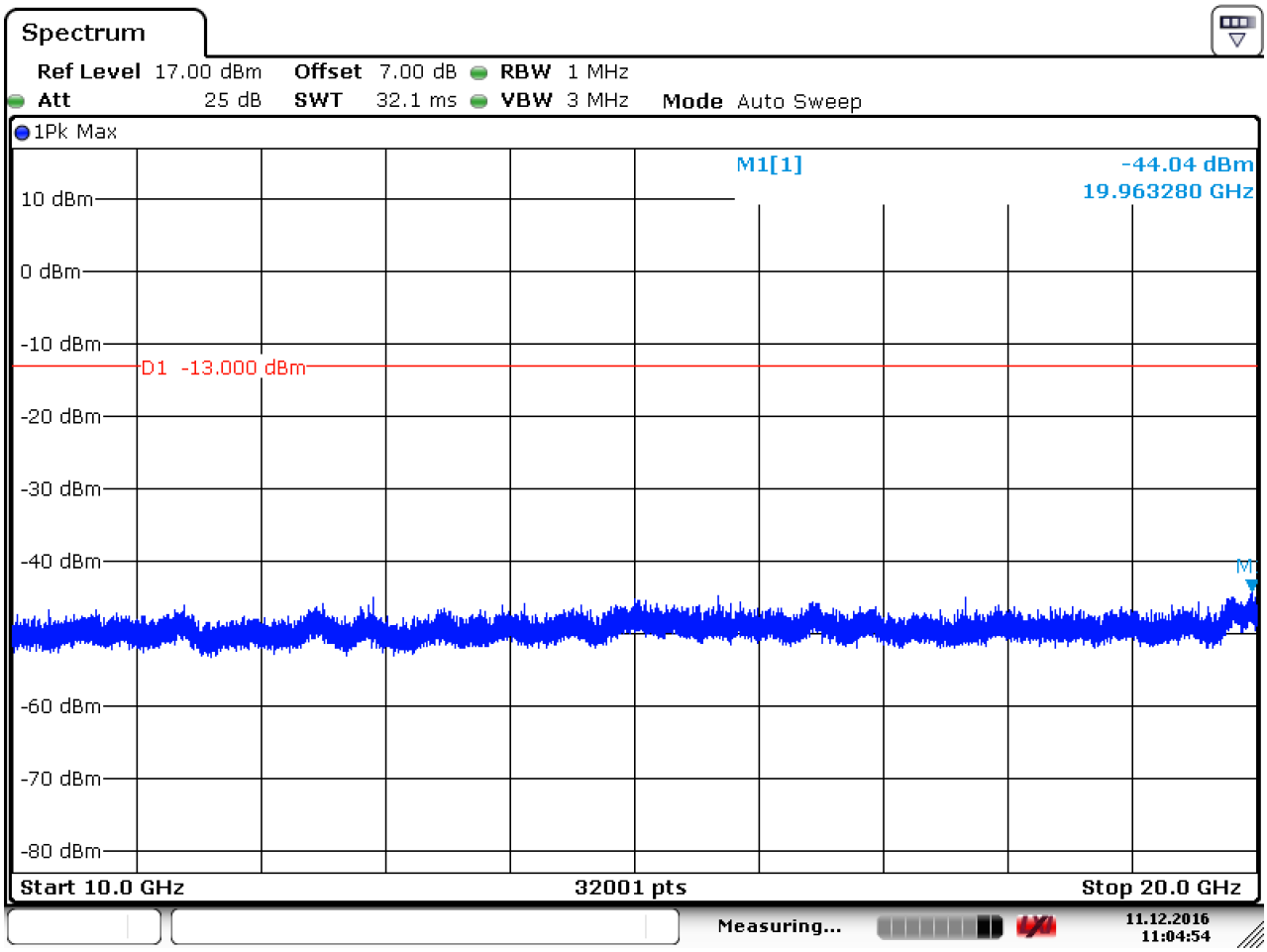
6.1.1.2.2 Test Channel = MCH



Date: 11.DEC.2016 10:43:35

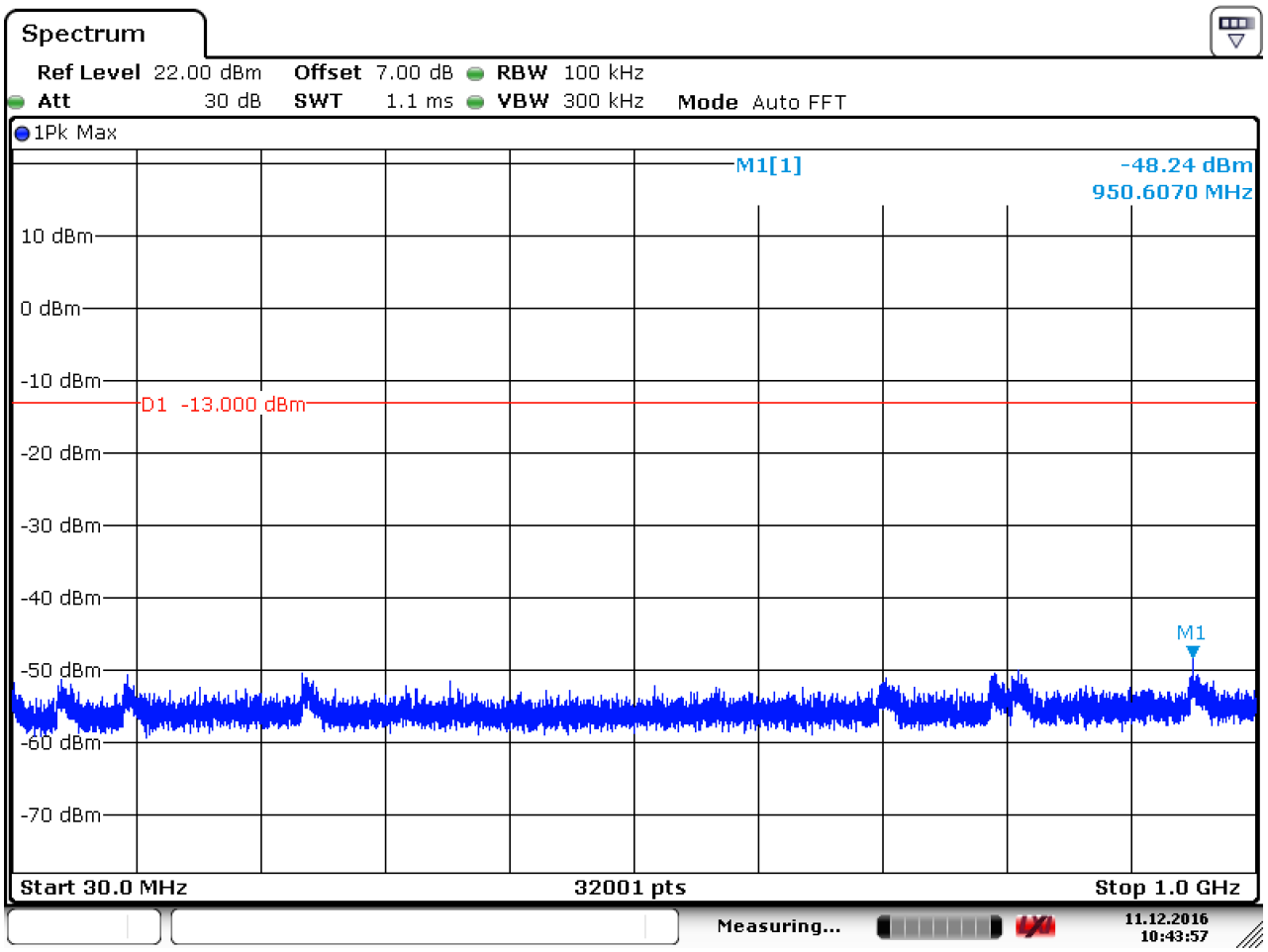


Date: 11.DEC.2016 10:50:02

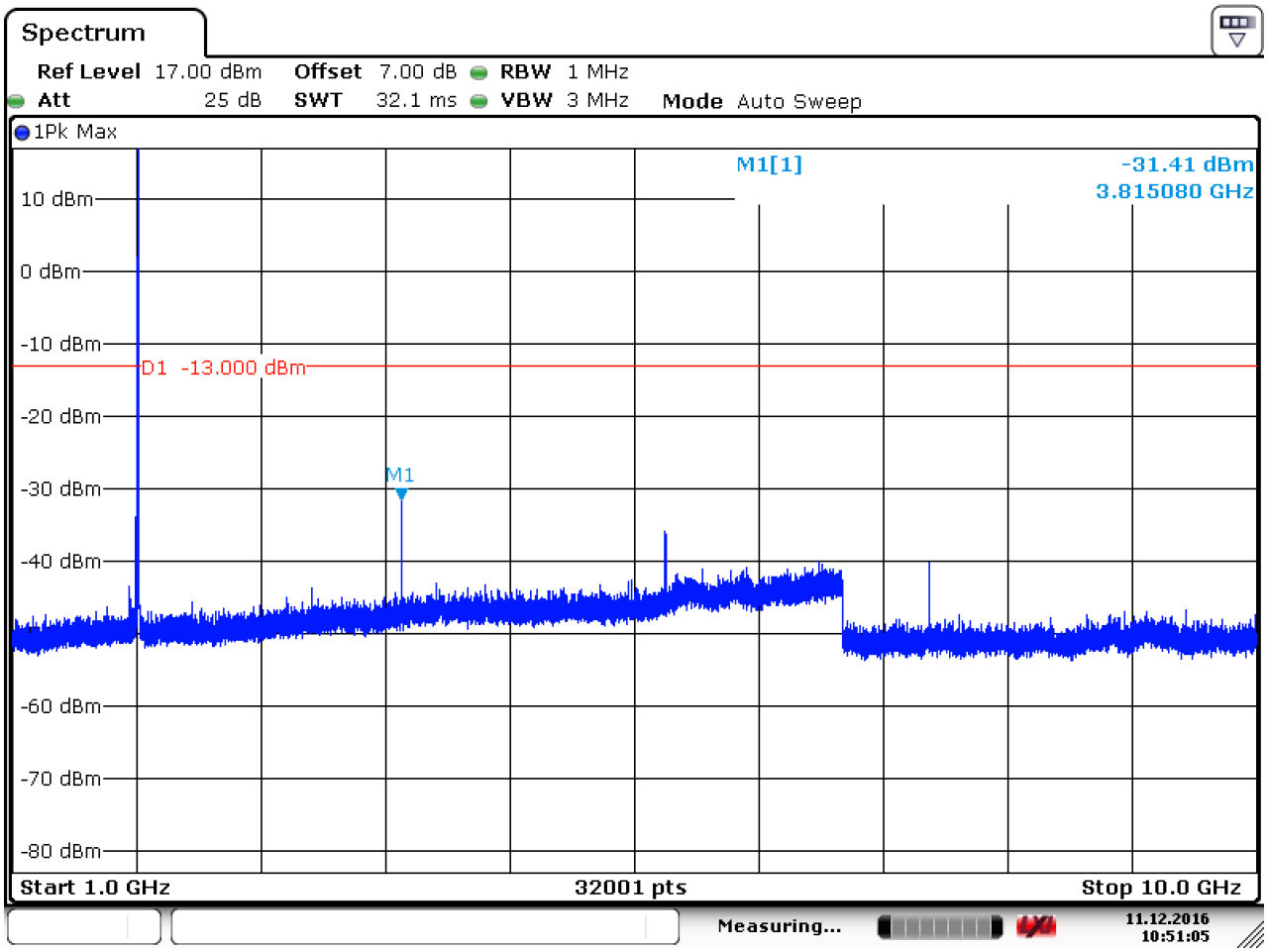


Date: 11.DEC.2016 11:04:55

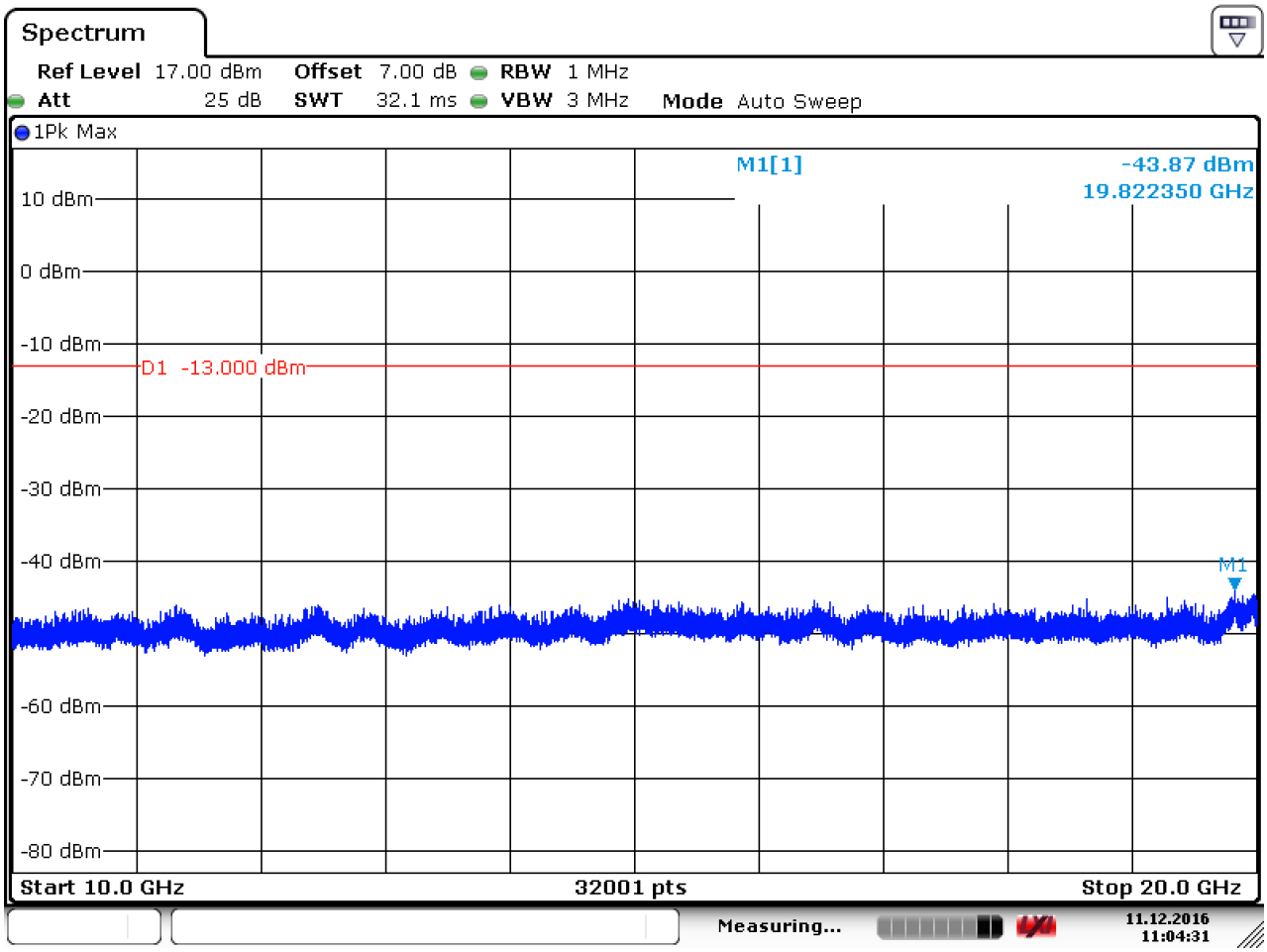
6.1.1.2.3 Test Channel = HCH



Date: 11.DEC.2016 10:43:57



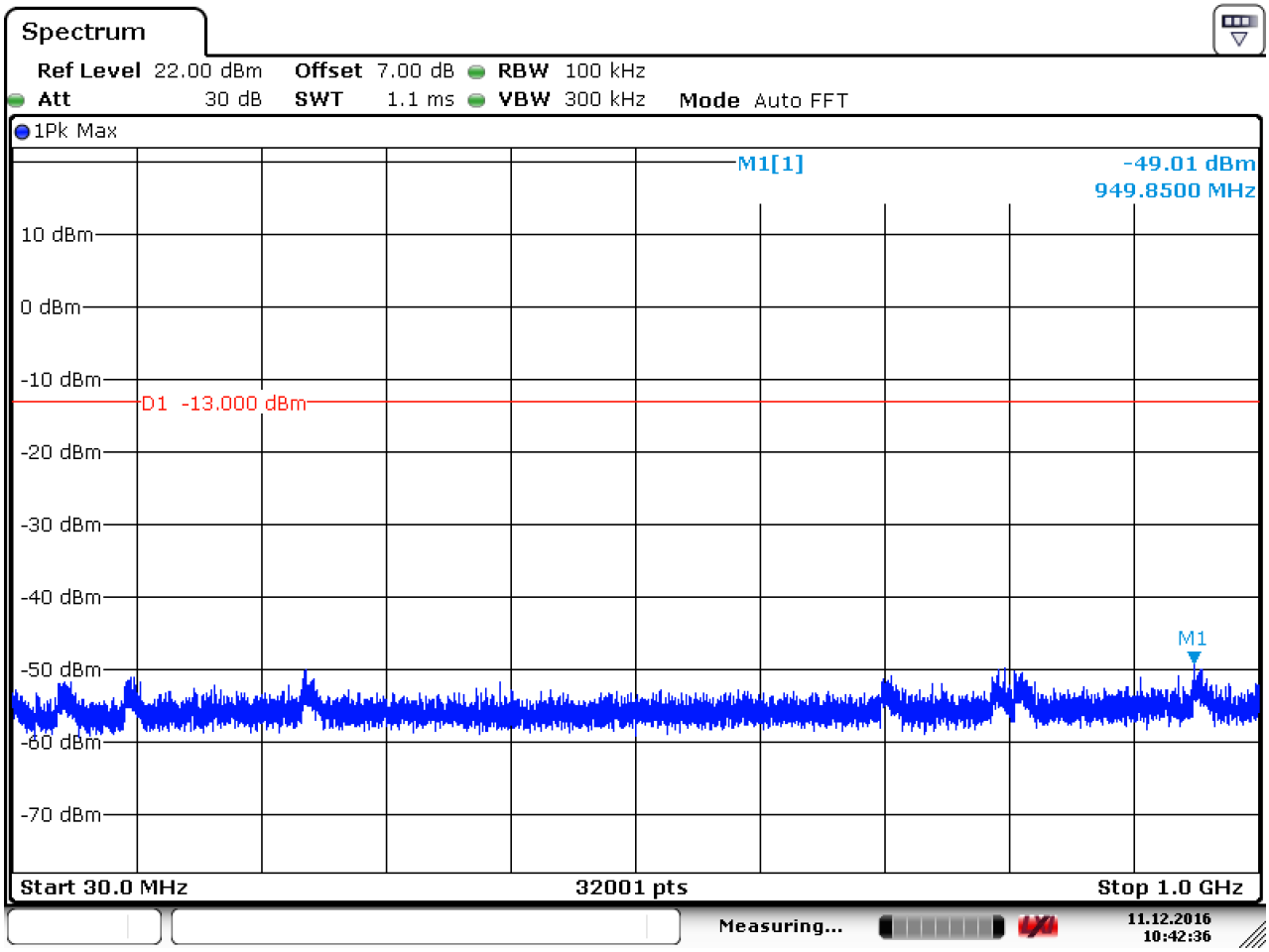
Date: 11.DEC.2016 10:51:05



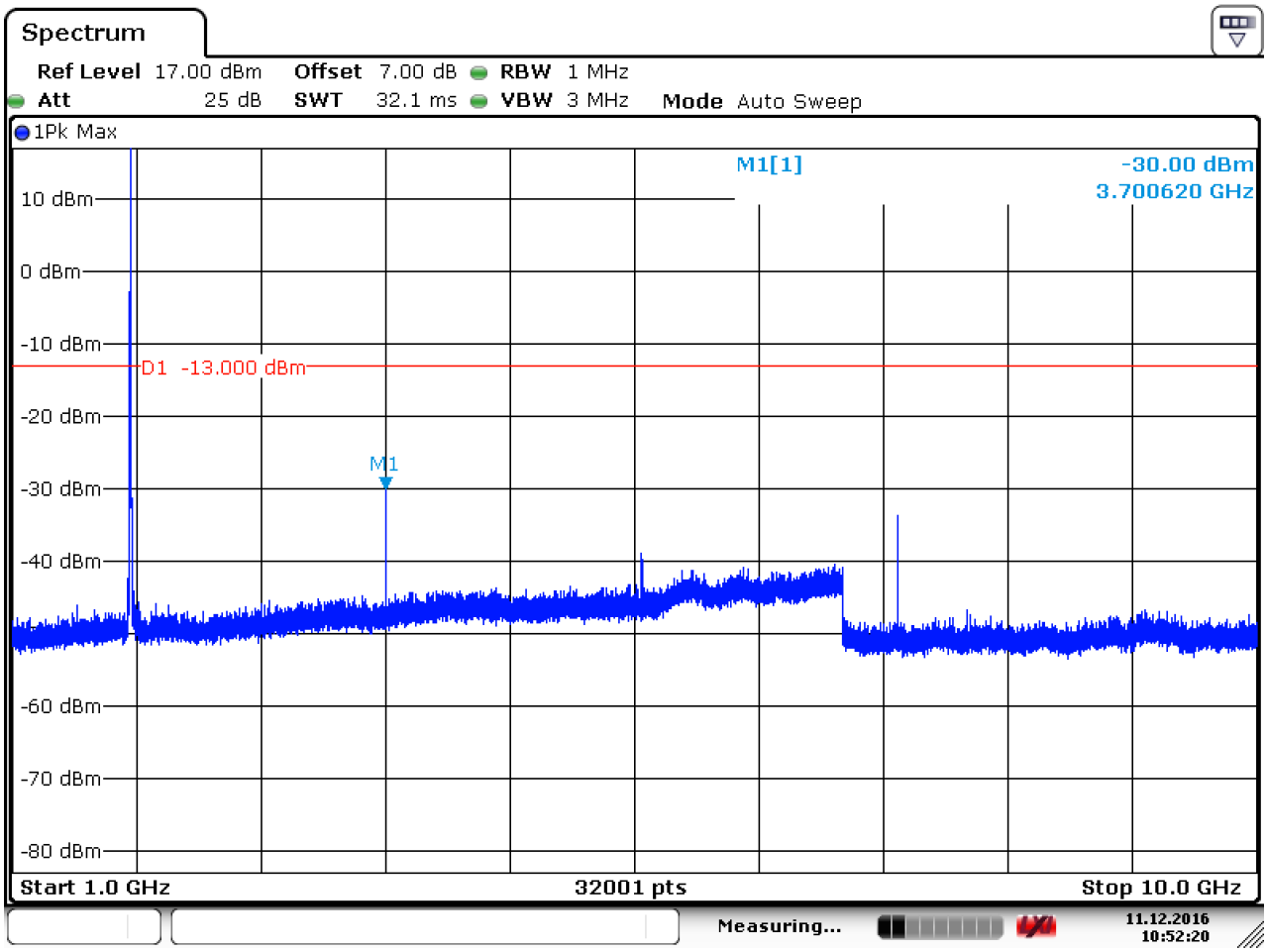
Date: 11.DEC.2016 11:04:31

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

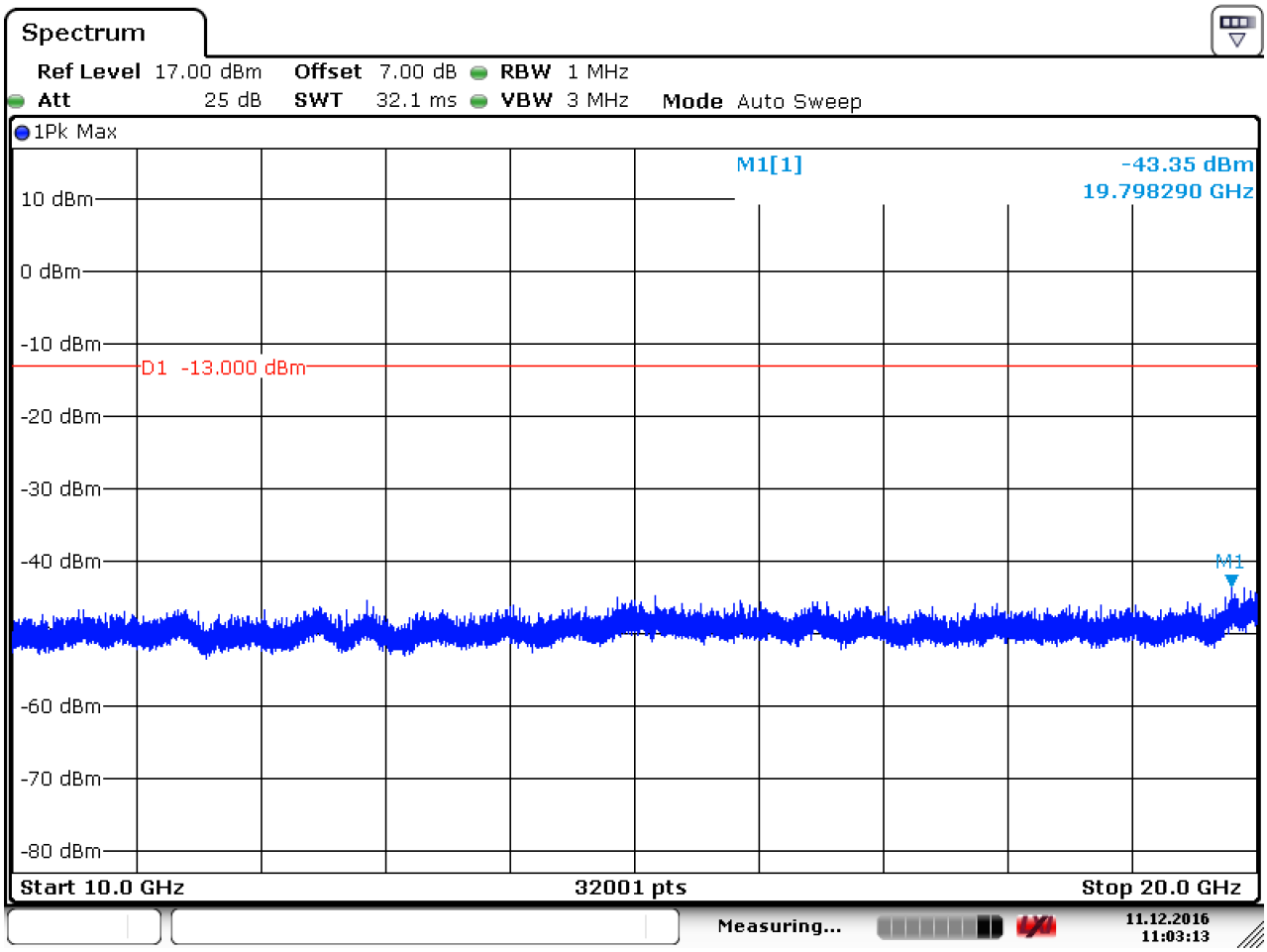
6.1.1.3.1 Test Channel = LCH



Date: 11.DEC.2016 10:42:36

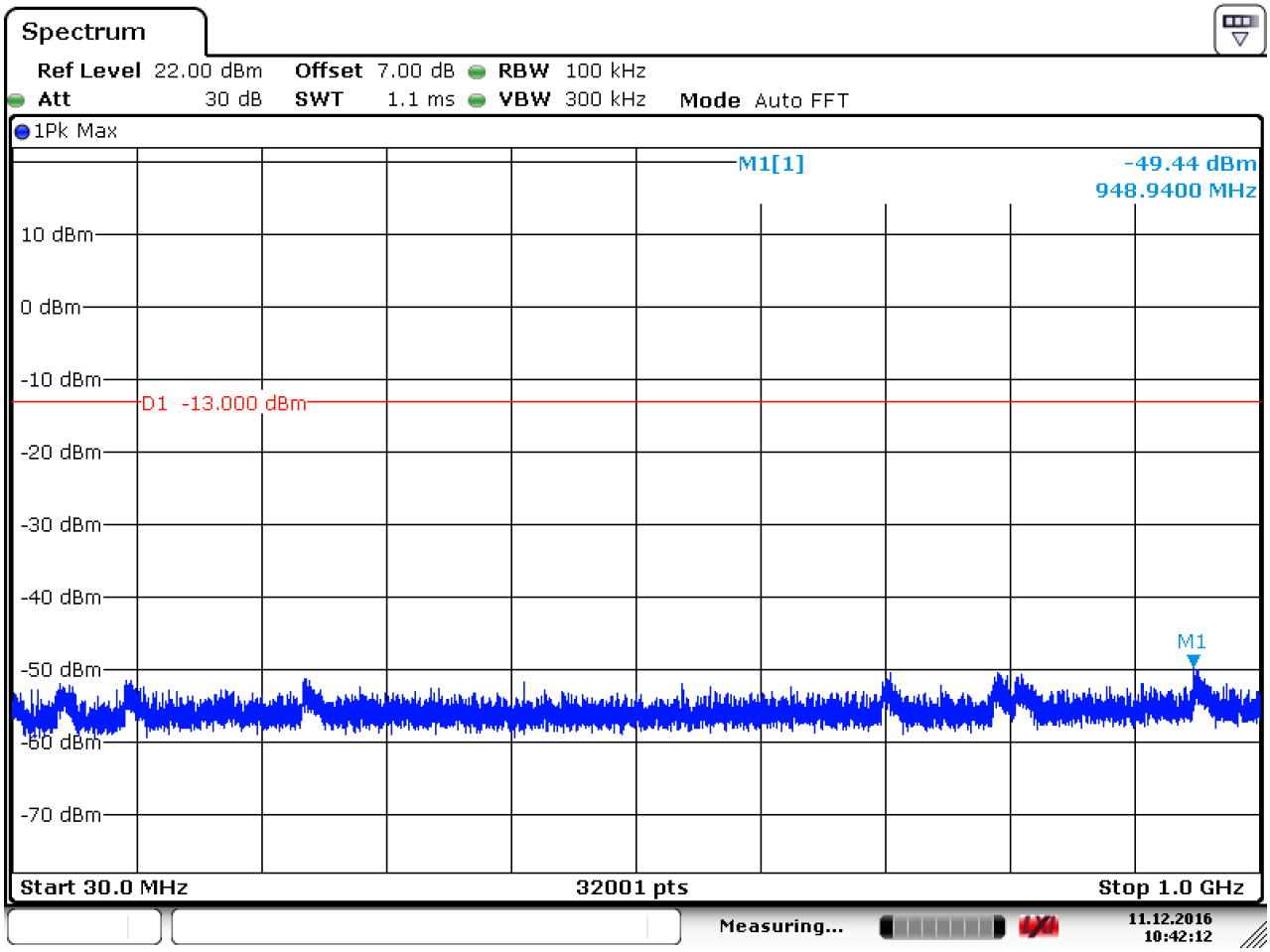


Date: 11.DEC.2016 10:52:21

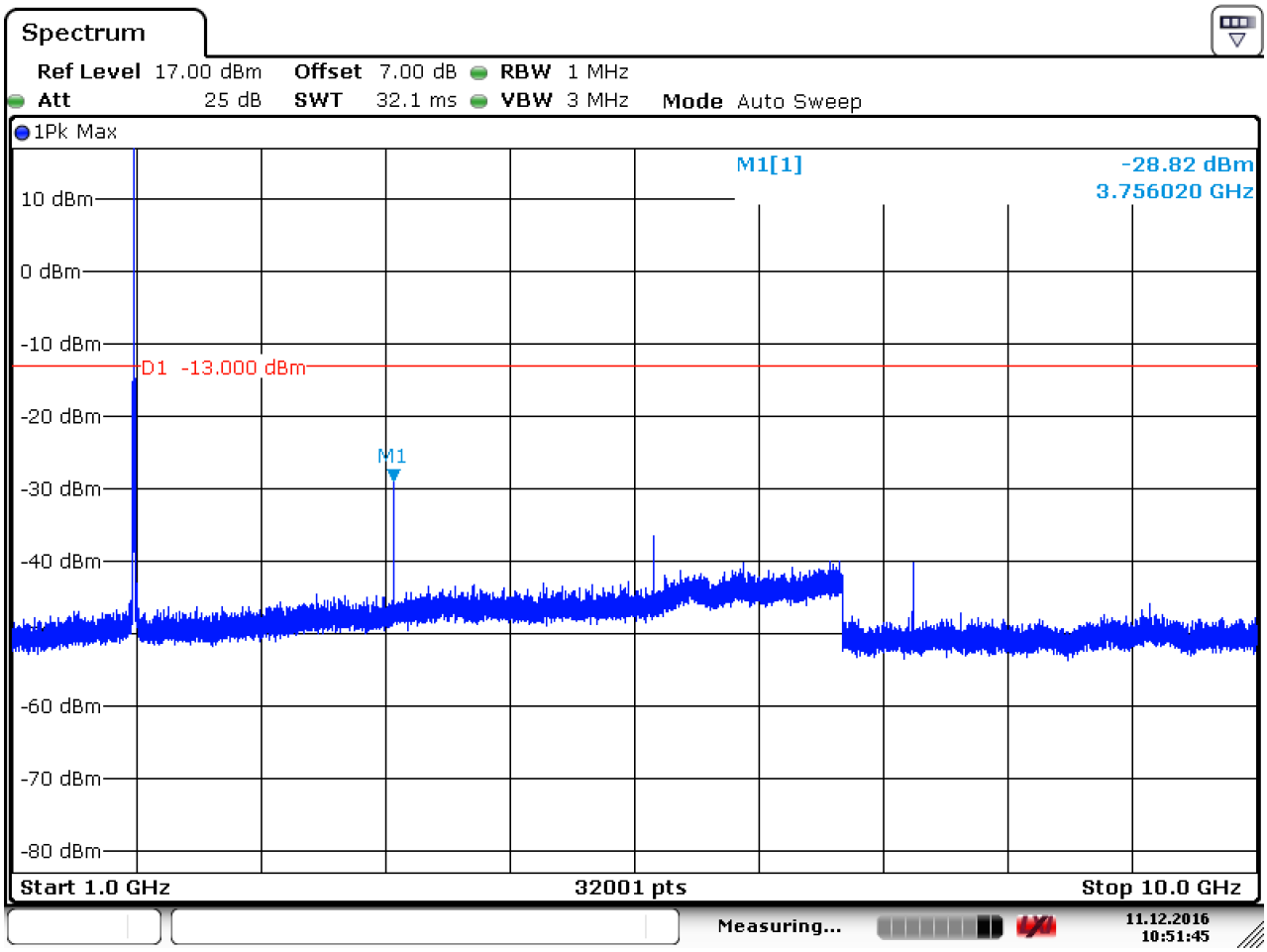


Date: 11.DEC.2016 11:03:13

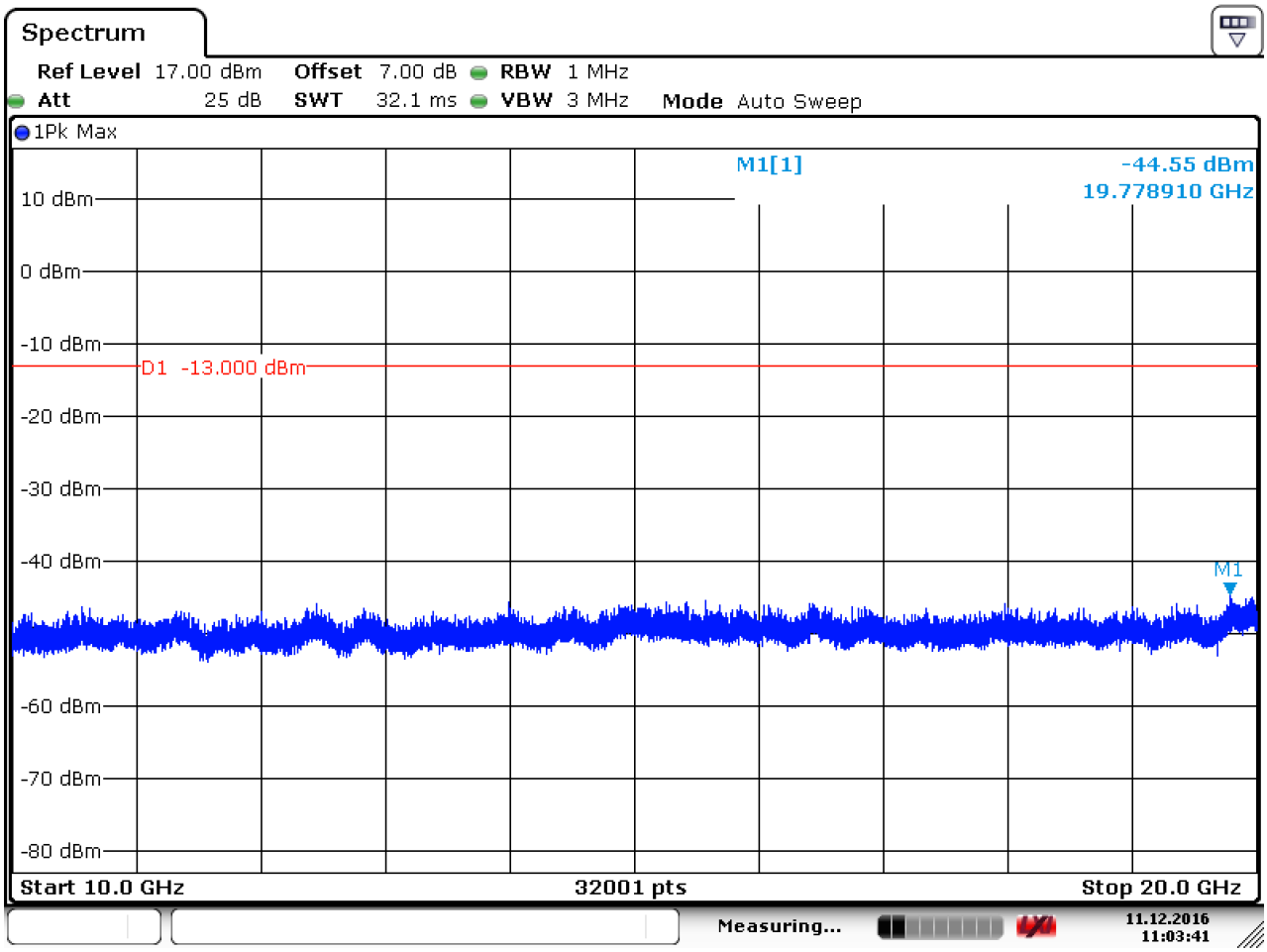
6.1.1.3.2 Test Channel = MCH



Date: 11.DEC.2016 10:42:13

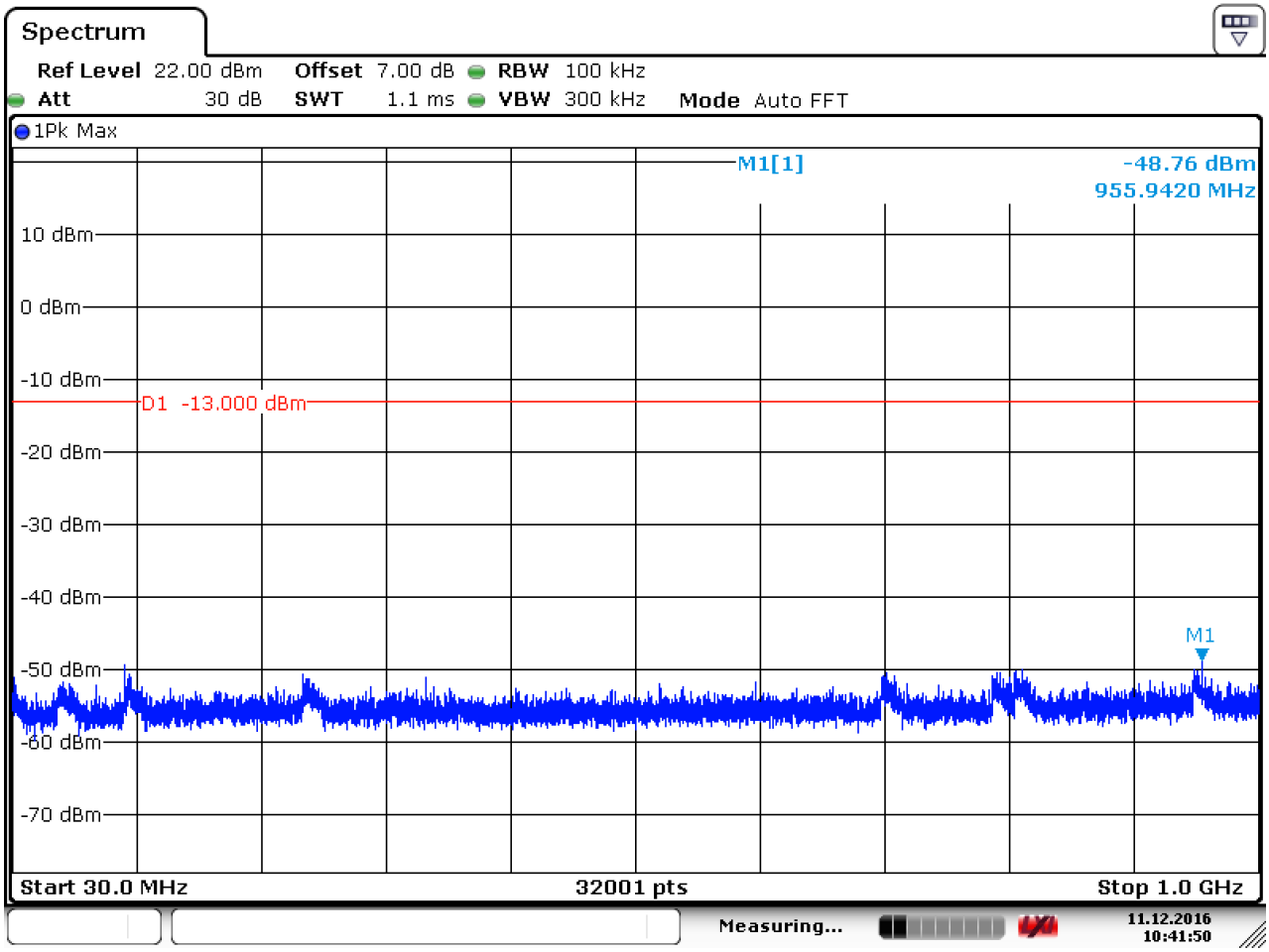


Date: 11.DEC.2016 10:51:46

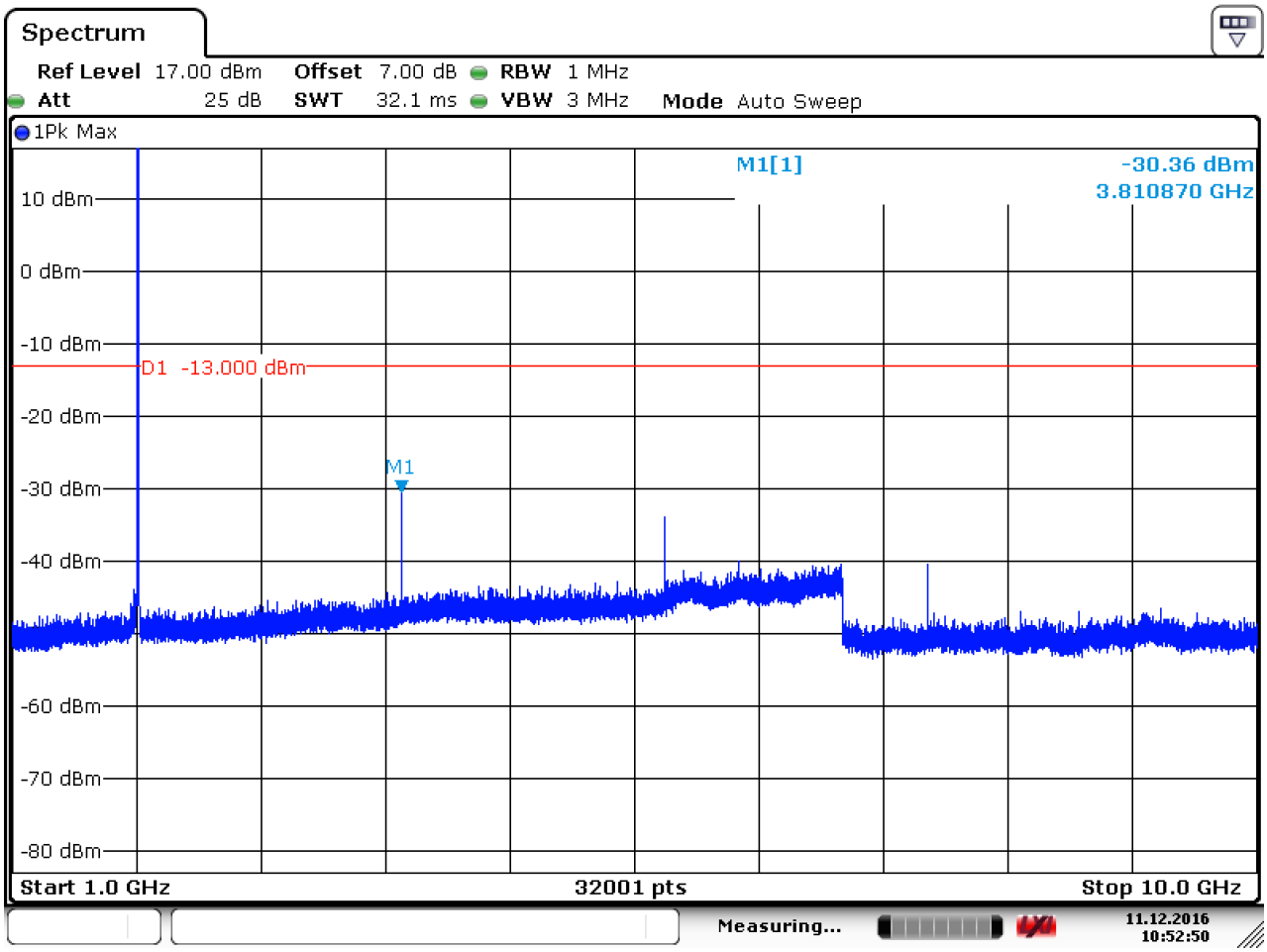


Date: 11.DEC.2016 11:03:42

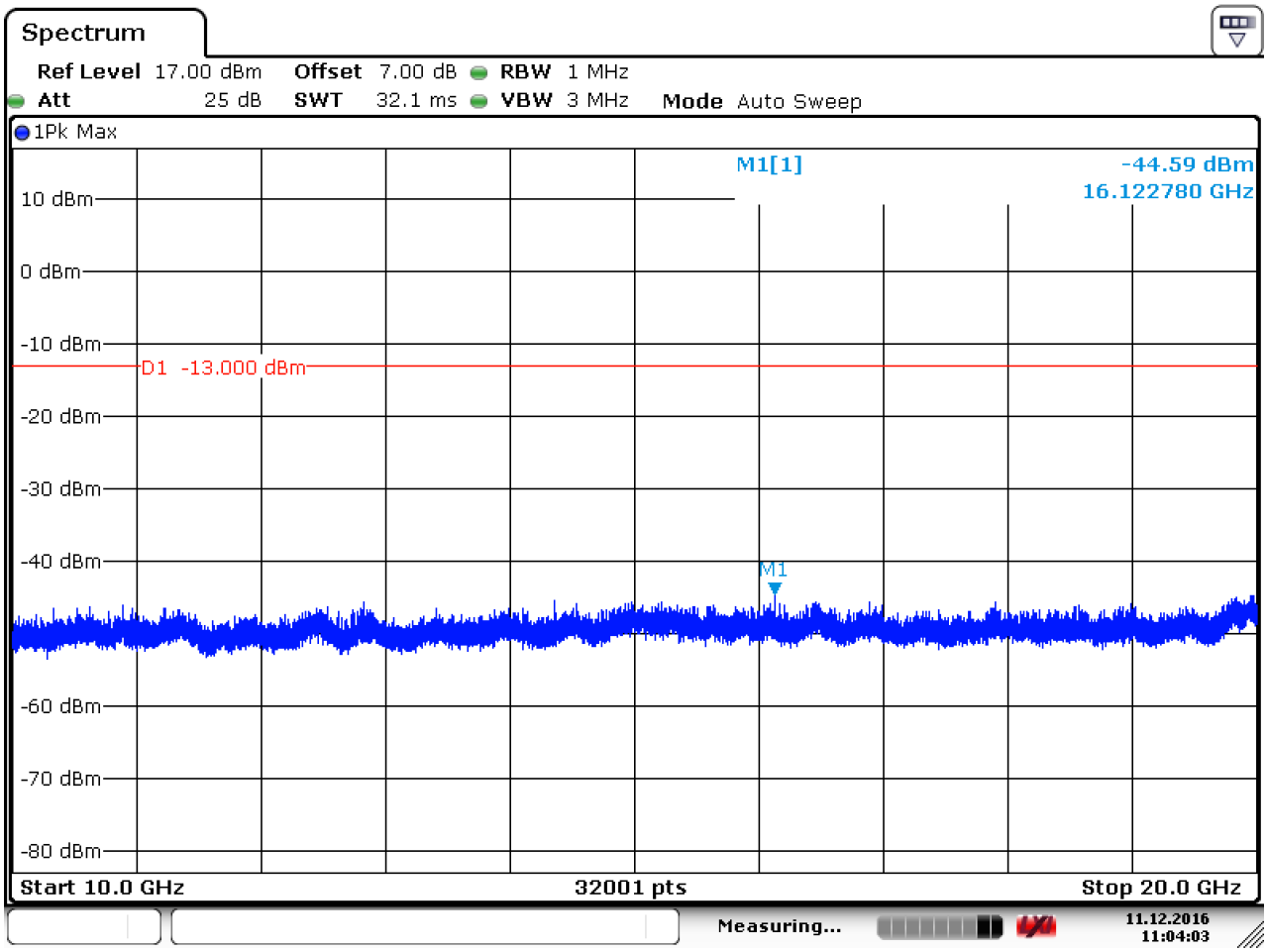
6.1.1.3.3 Test Channel = HCH



Date: 11.DEC.2016 10:41:50



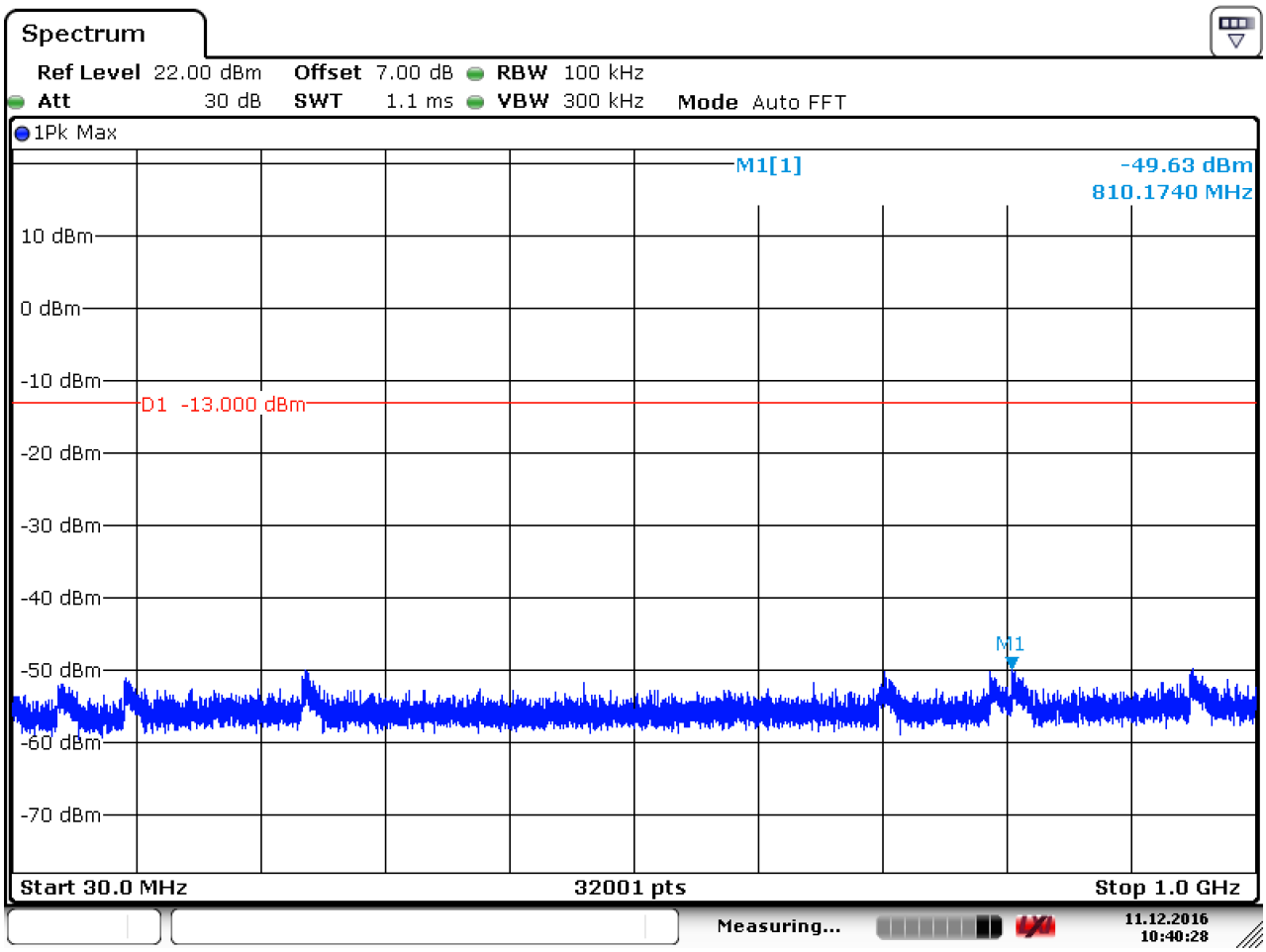
Date: 11.DEC.2016 10:52:50



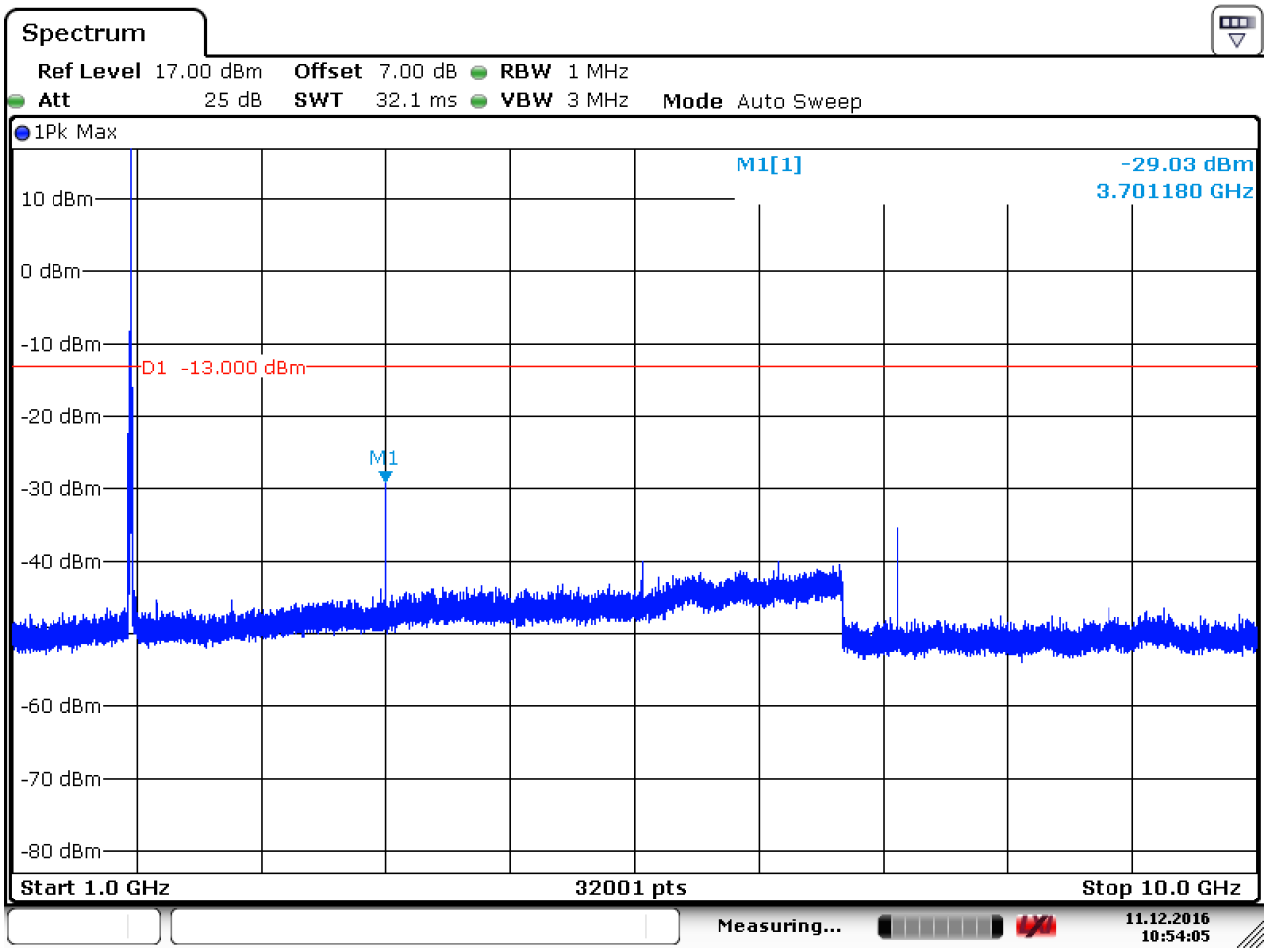
Date: 11.DEC.2016 11:04:04

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

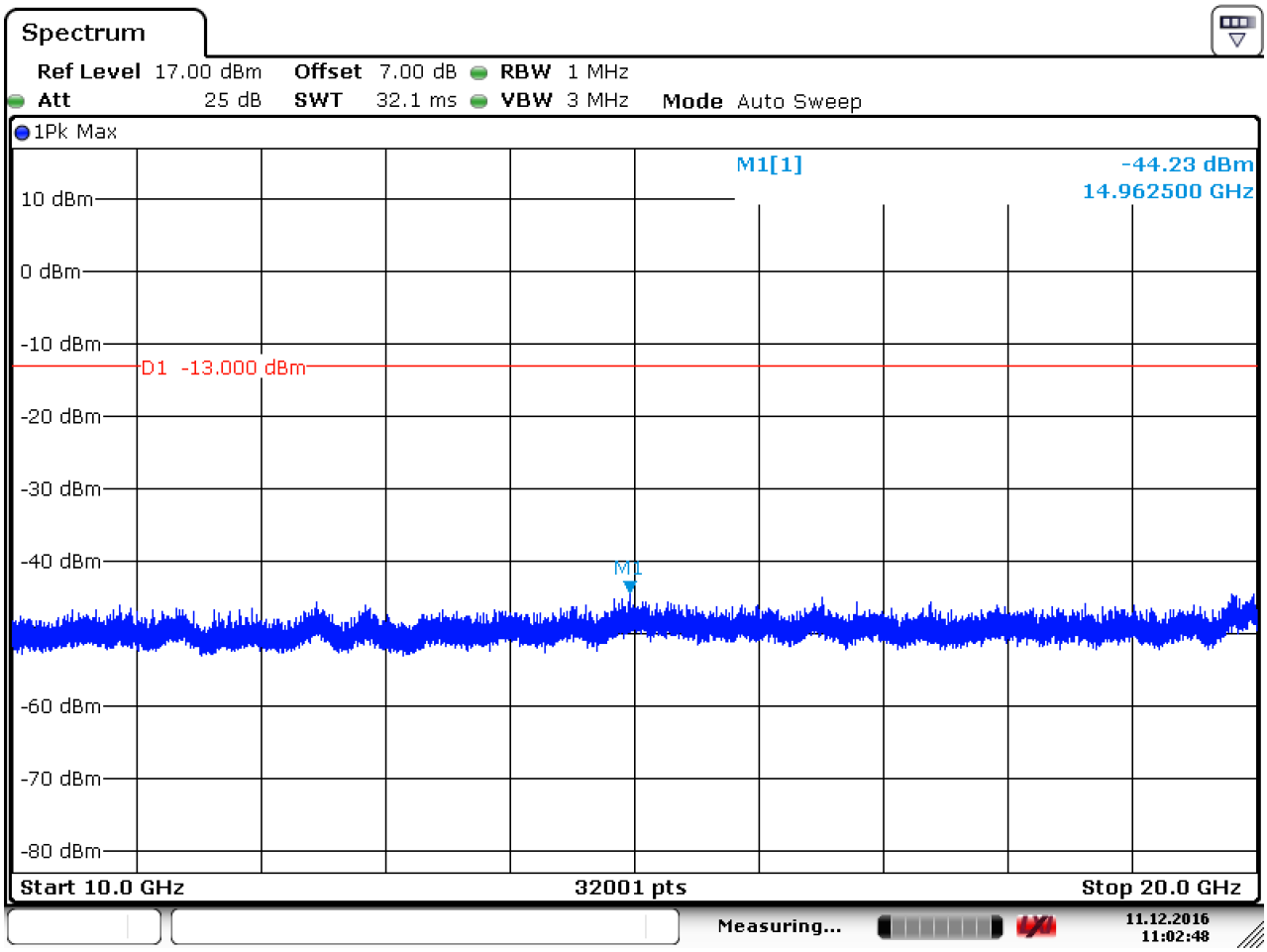
6.1.1.4.1 Test Channel = LCH



Date: 11.DEC.2016 10:40:28

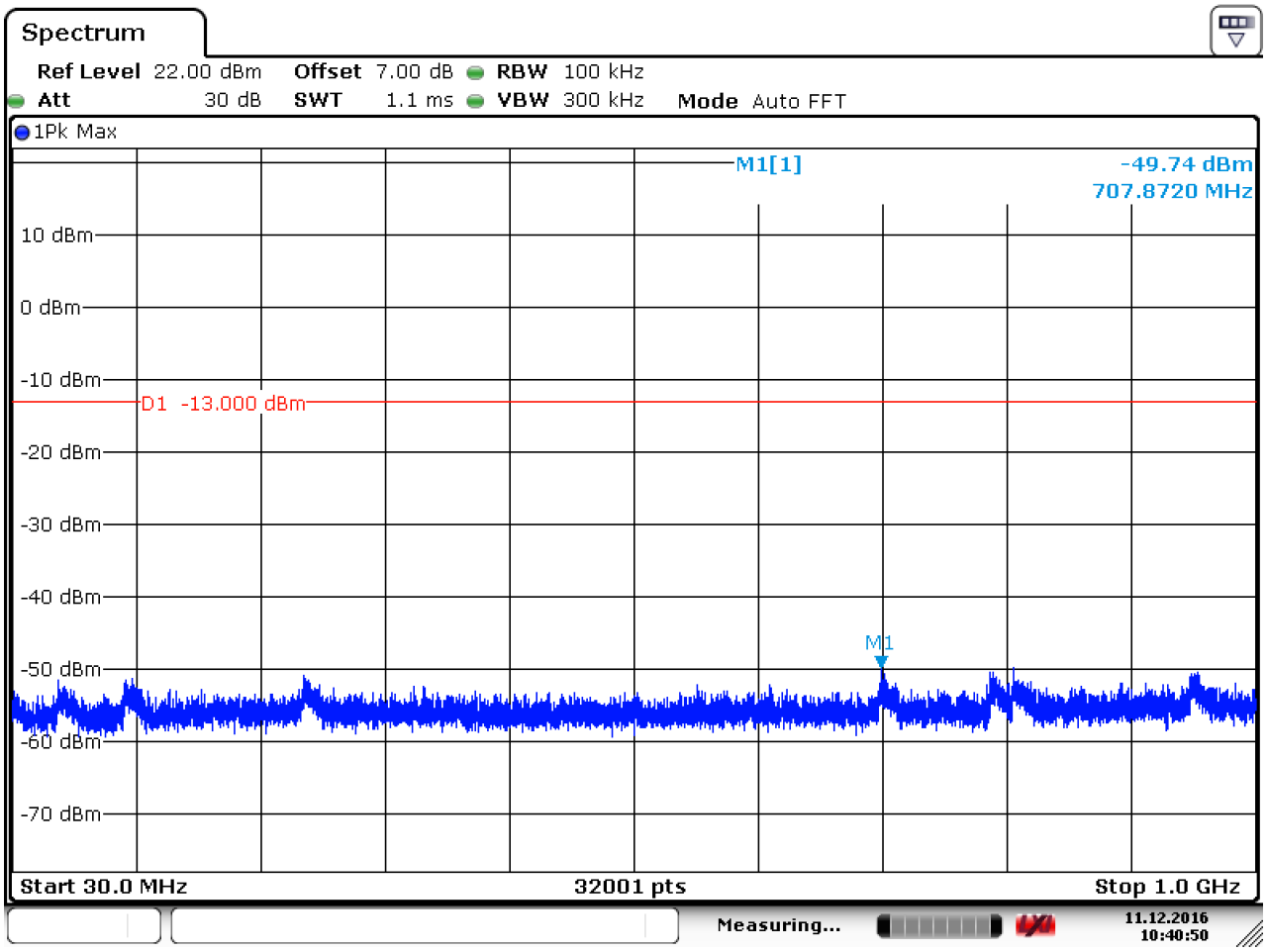


Date: 11.DEC.2016 10:54:05

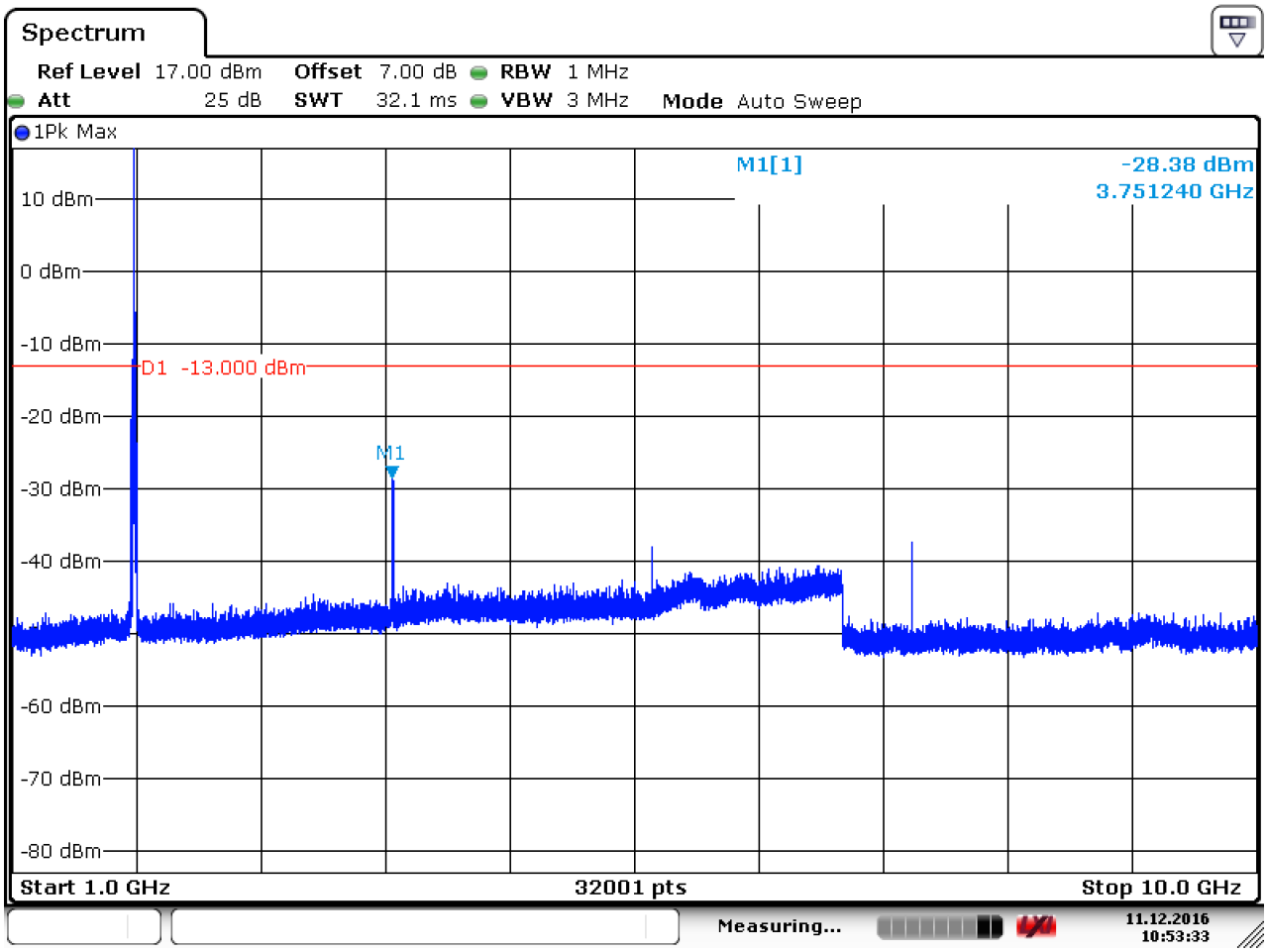


Date: 11.DEC.2016 11:02:49

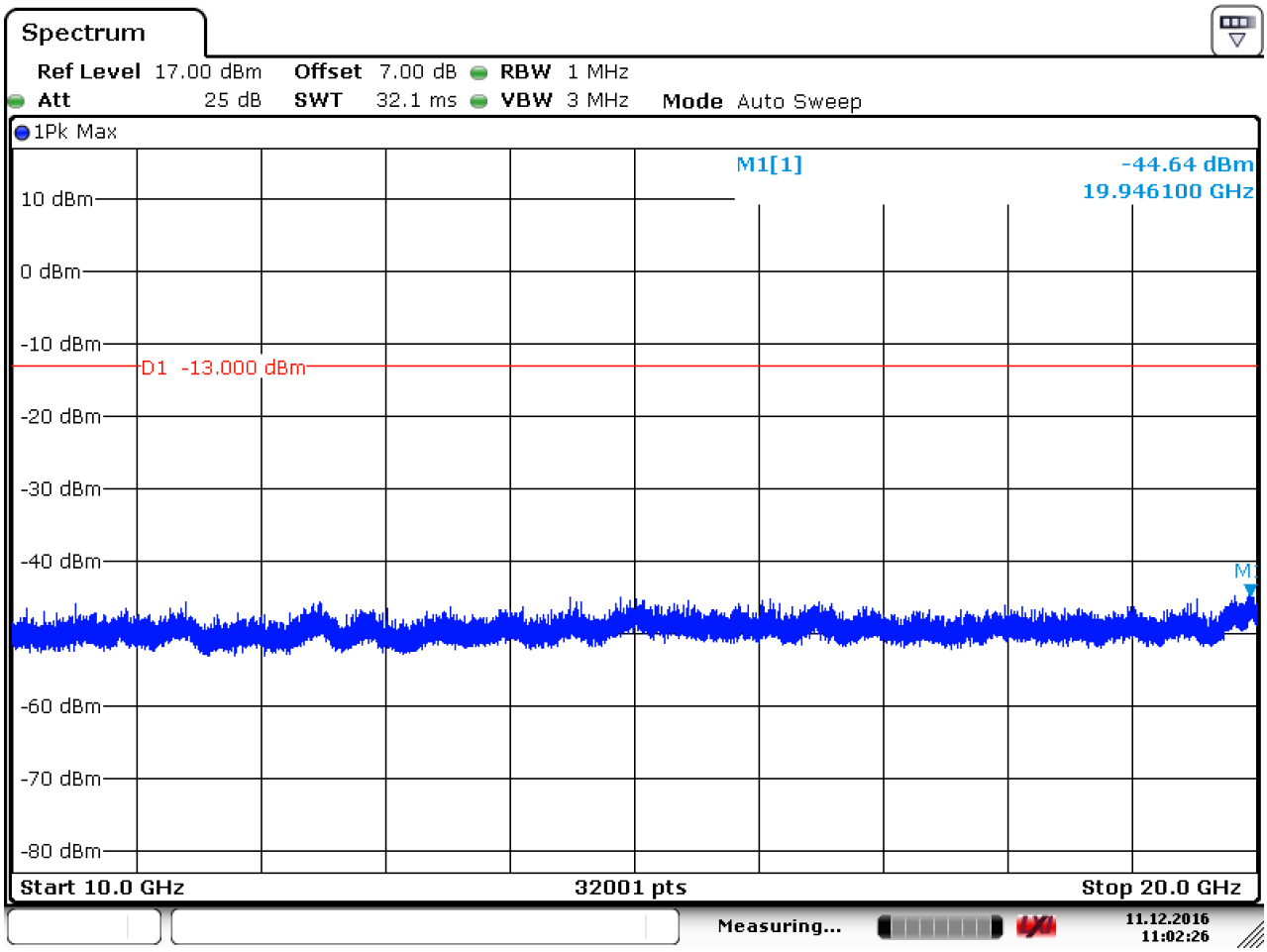
6.1.1.4.2 Test Channel = MCH



Date: 11.DEC.2016 10:40:51

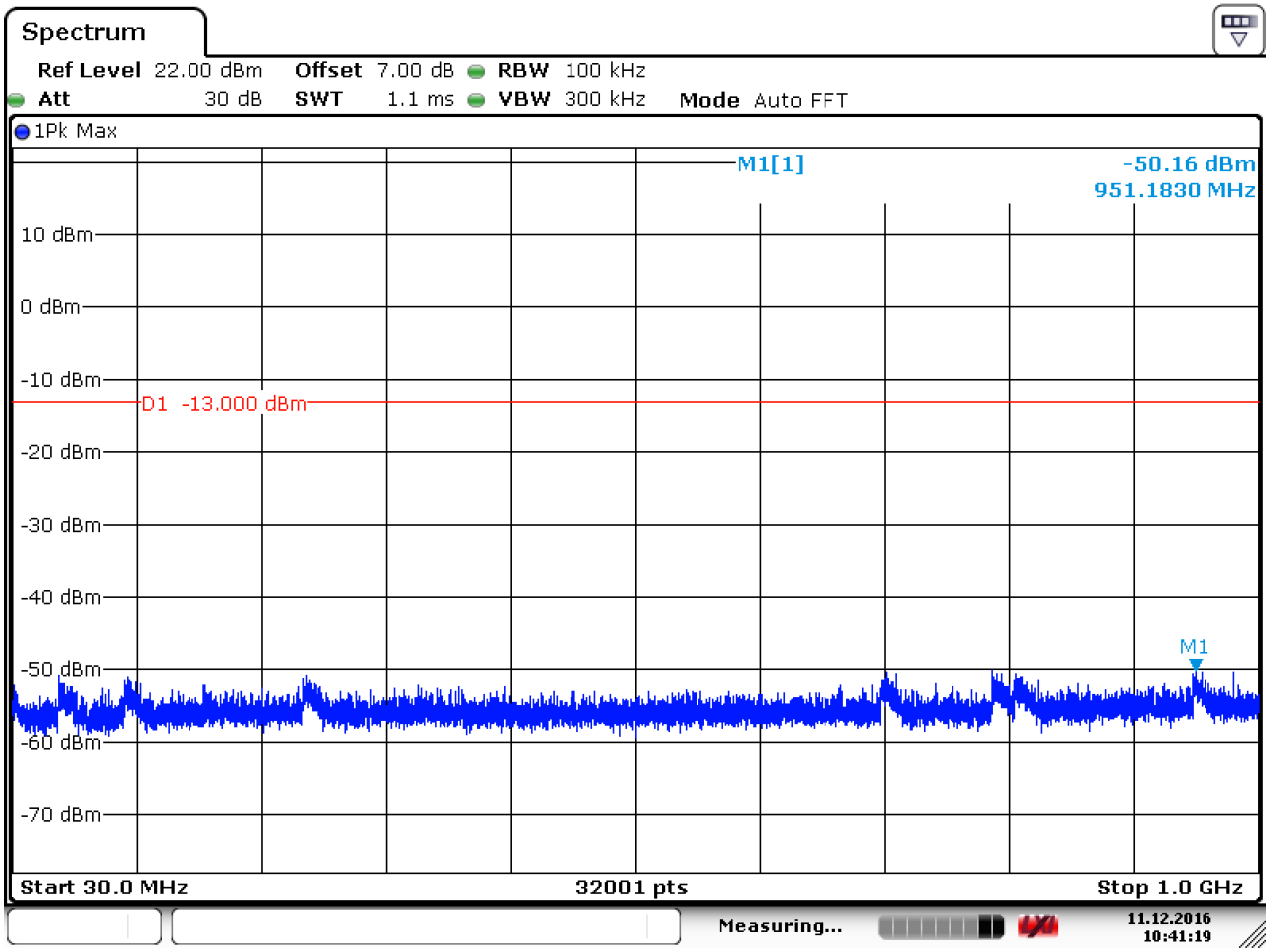


Date: 11.DEC.2016 10:53:33

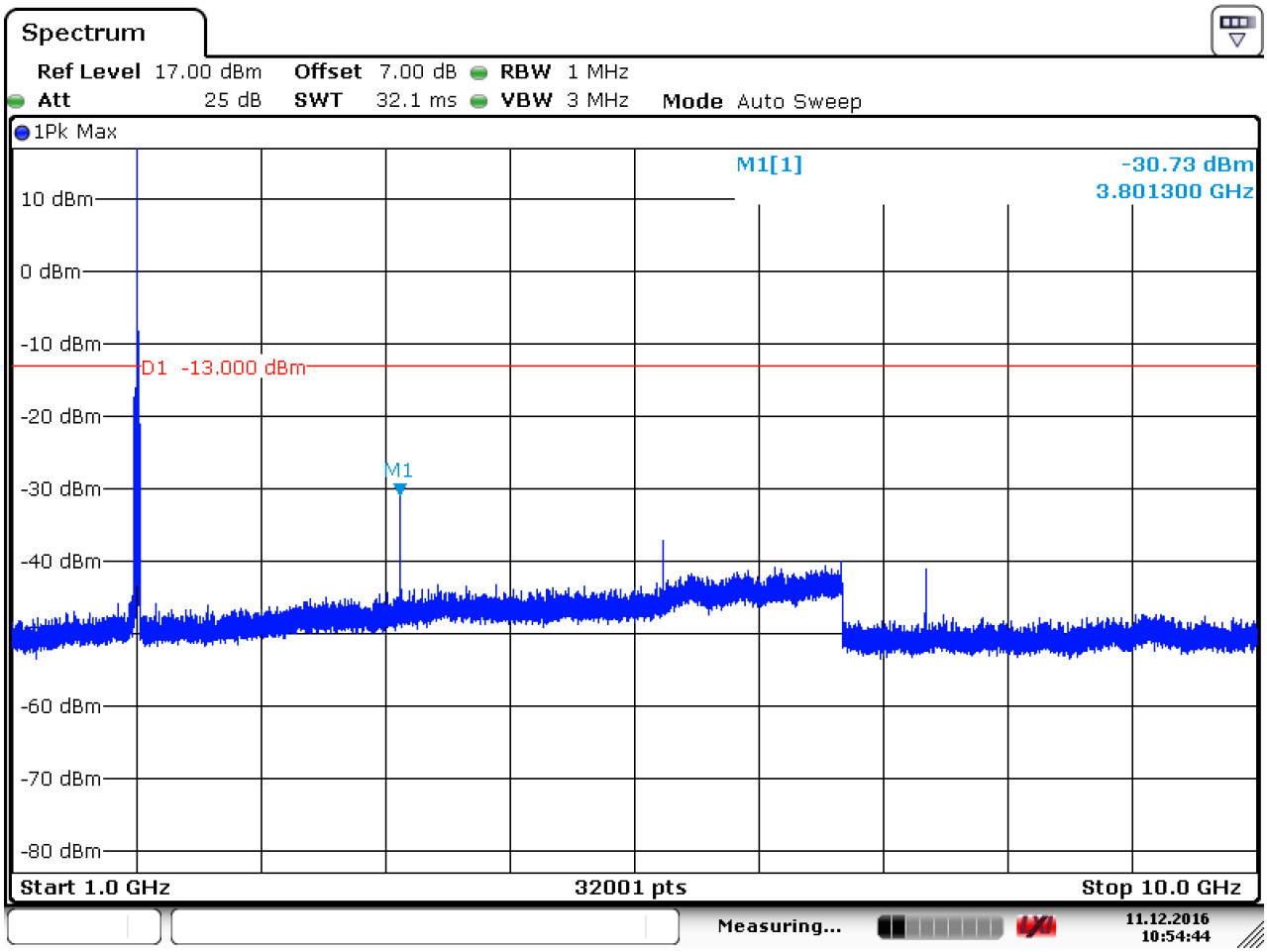


Date: 11.DEC.2016 11:02:27

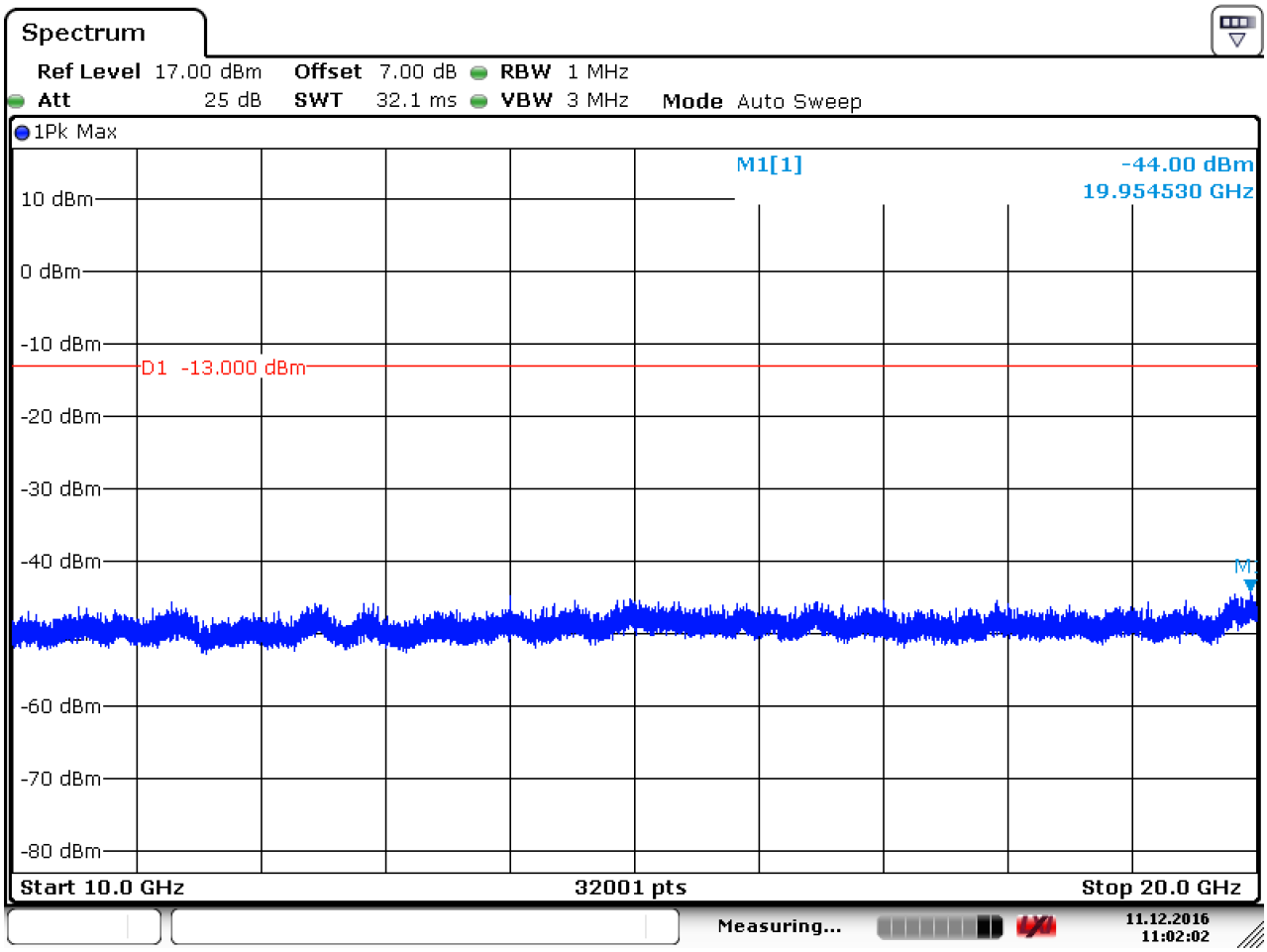
6.1.1.4.3 Test Channel = HCH



Date: 11.DEC.2016 10:41:19



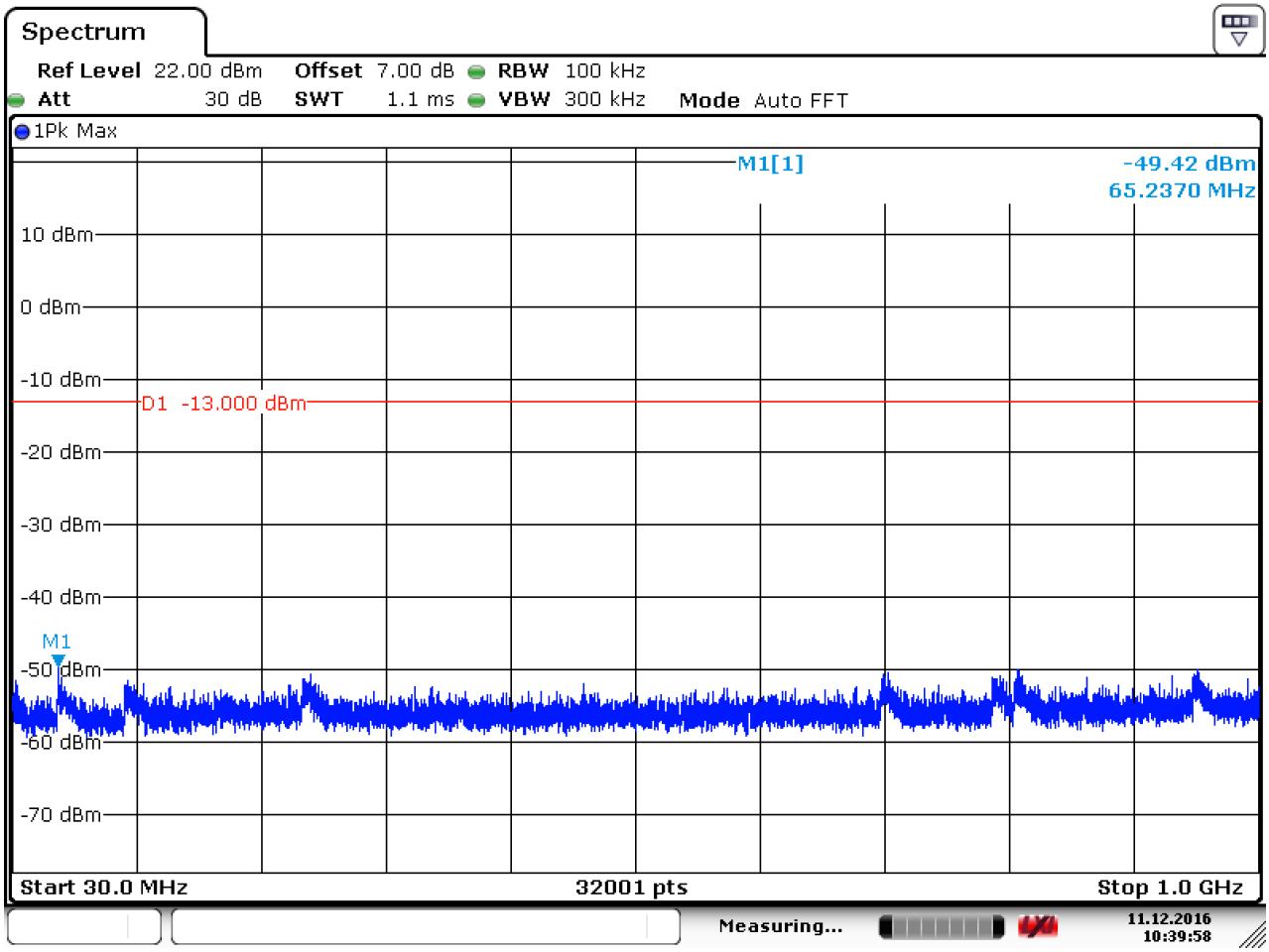
Date: 11.DEC.2016 10:54:44



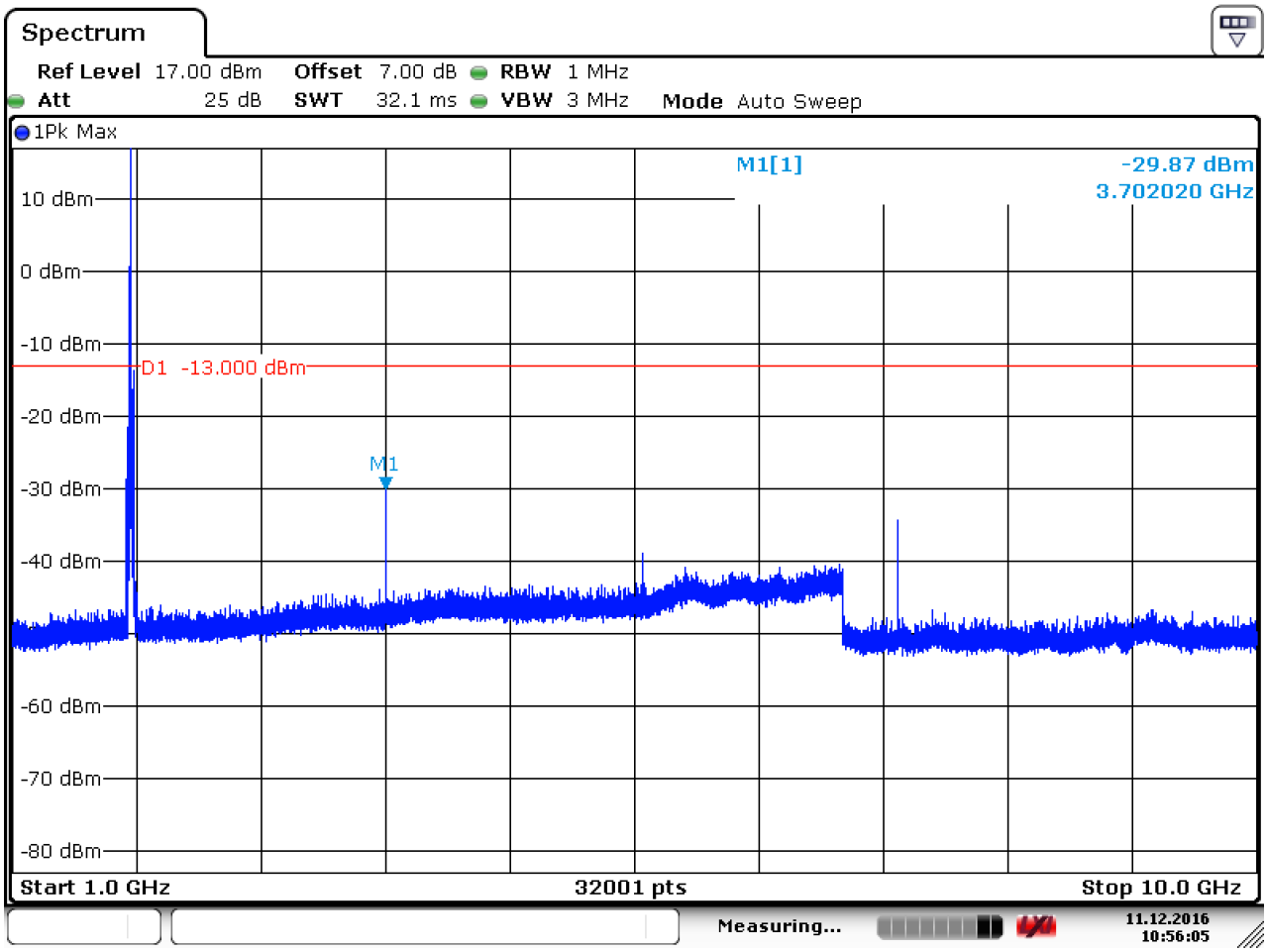
Date: 11.DEC.2016 11:02:02

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

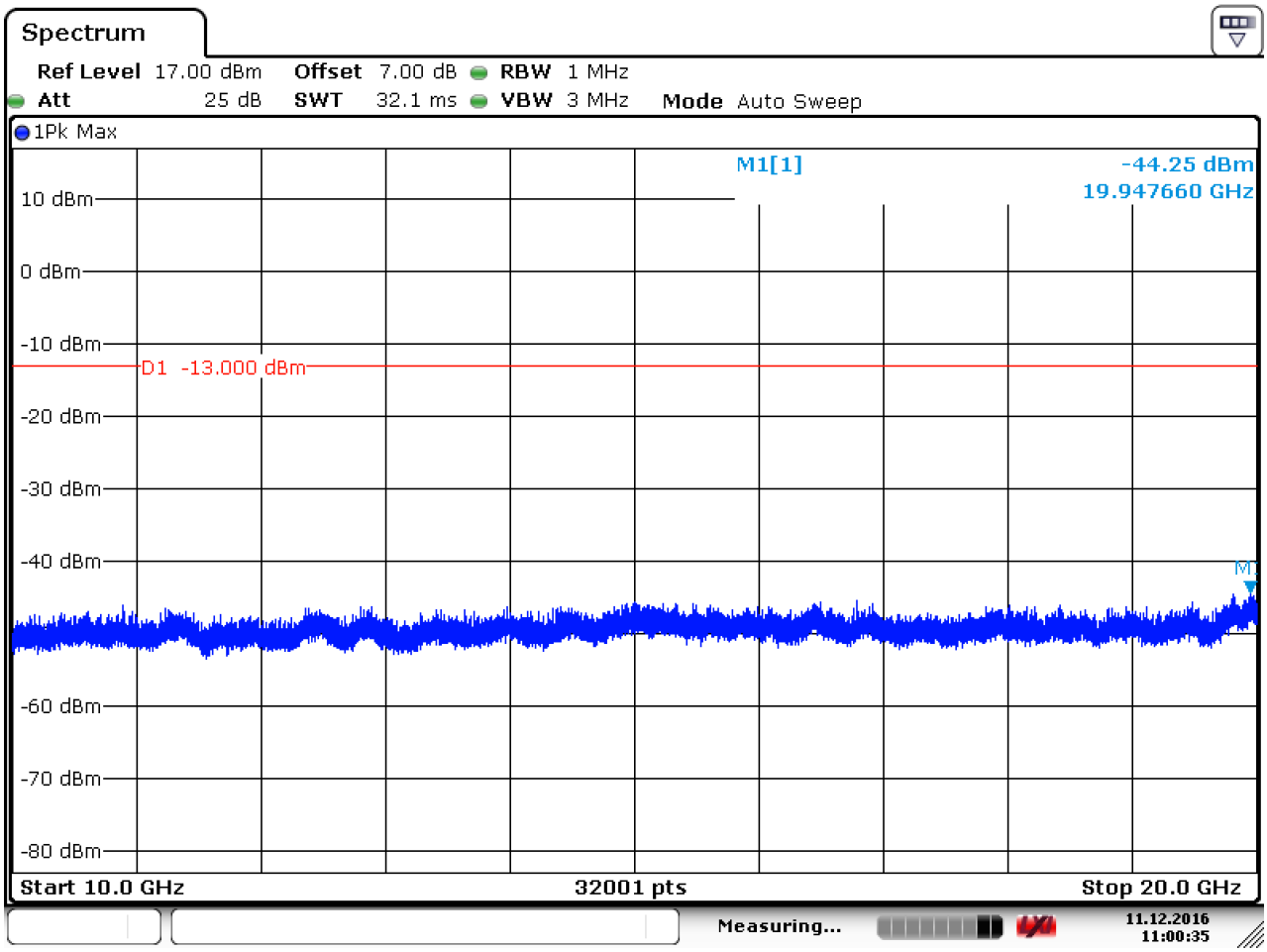
6.1.1.5.1 Test Channel = LCH



Date: 11.DEC.2016 10:39:58

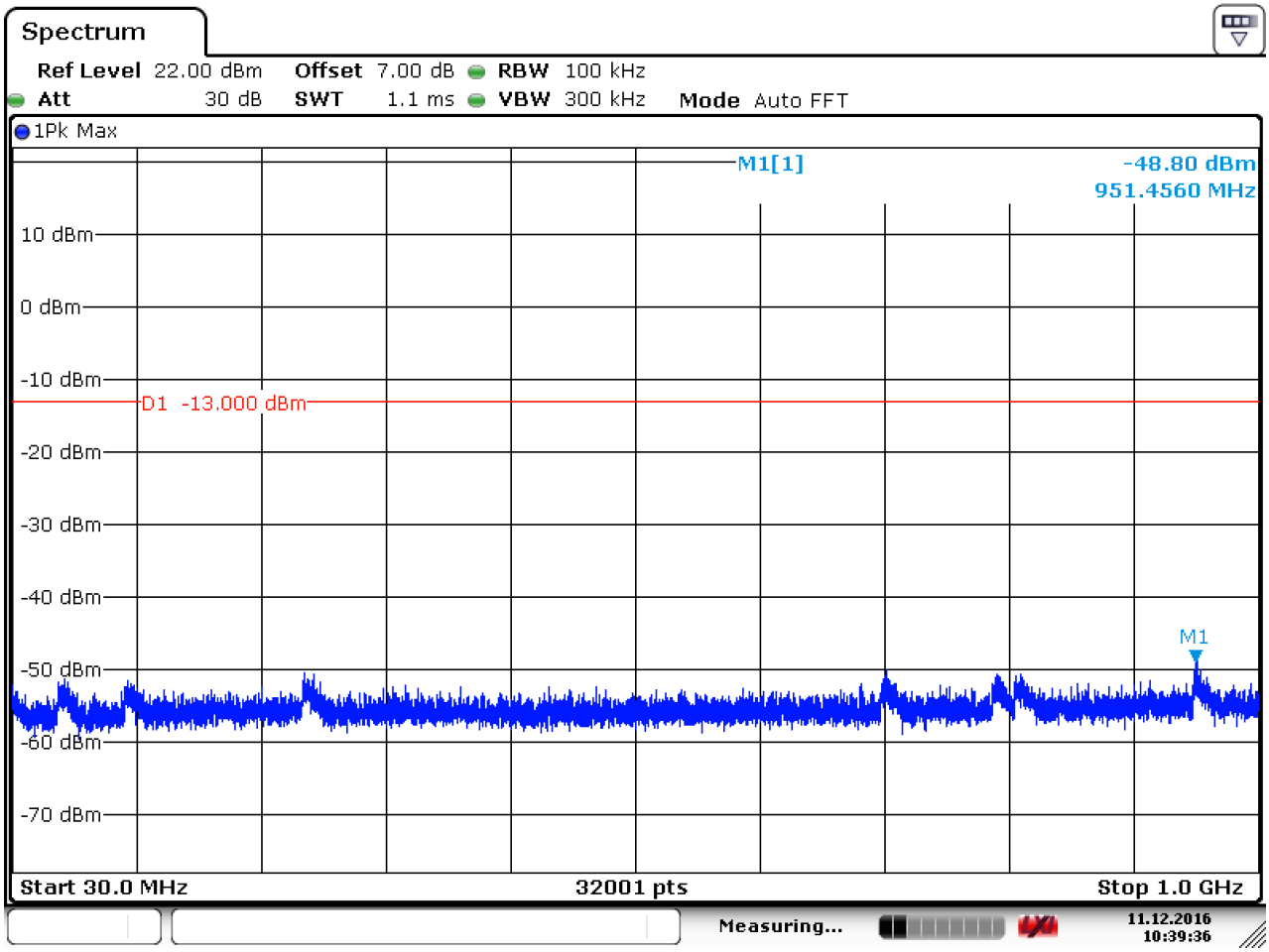


Date: 11.DEC.2016 10:56:06

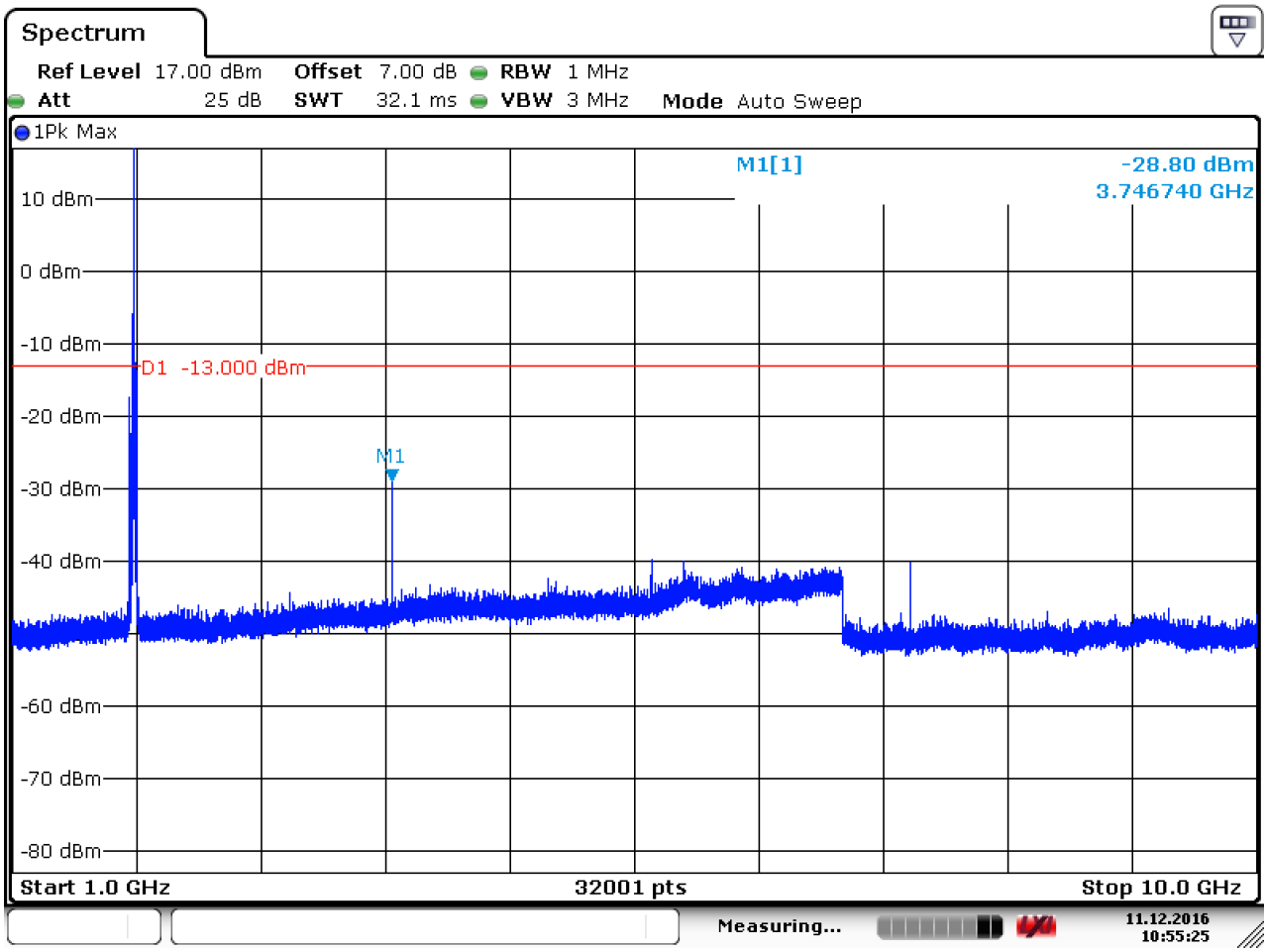


Date: 11.DEC.2016 11:00:35

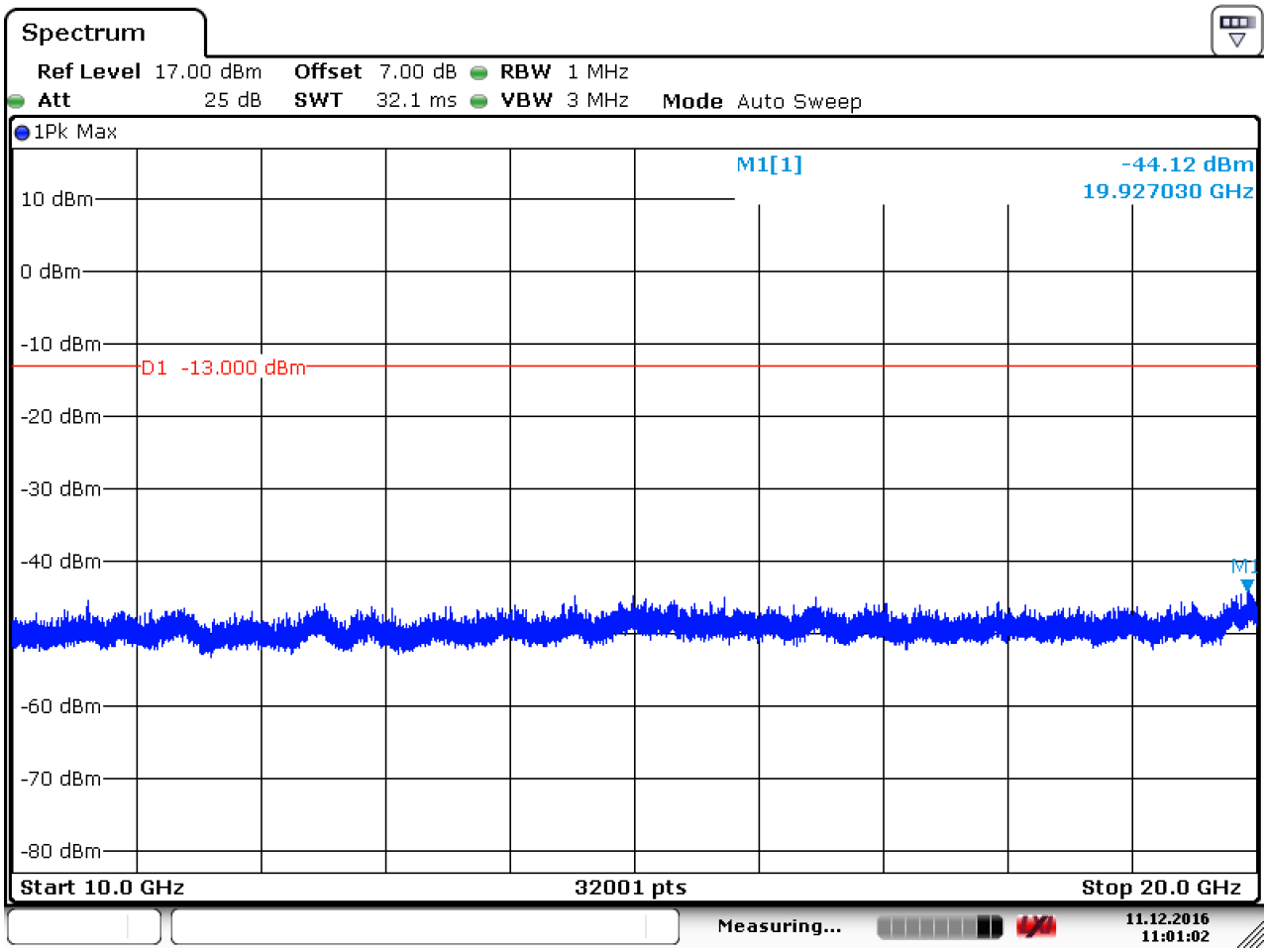
6.1.1.5.2 Test Channel = MCH



Date: 11.DEC.2016 10:39:37

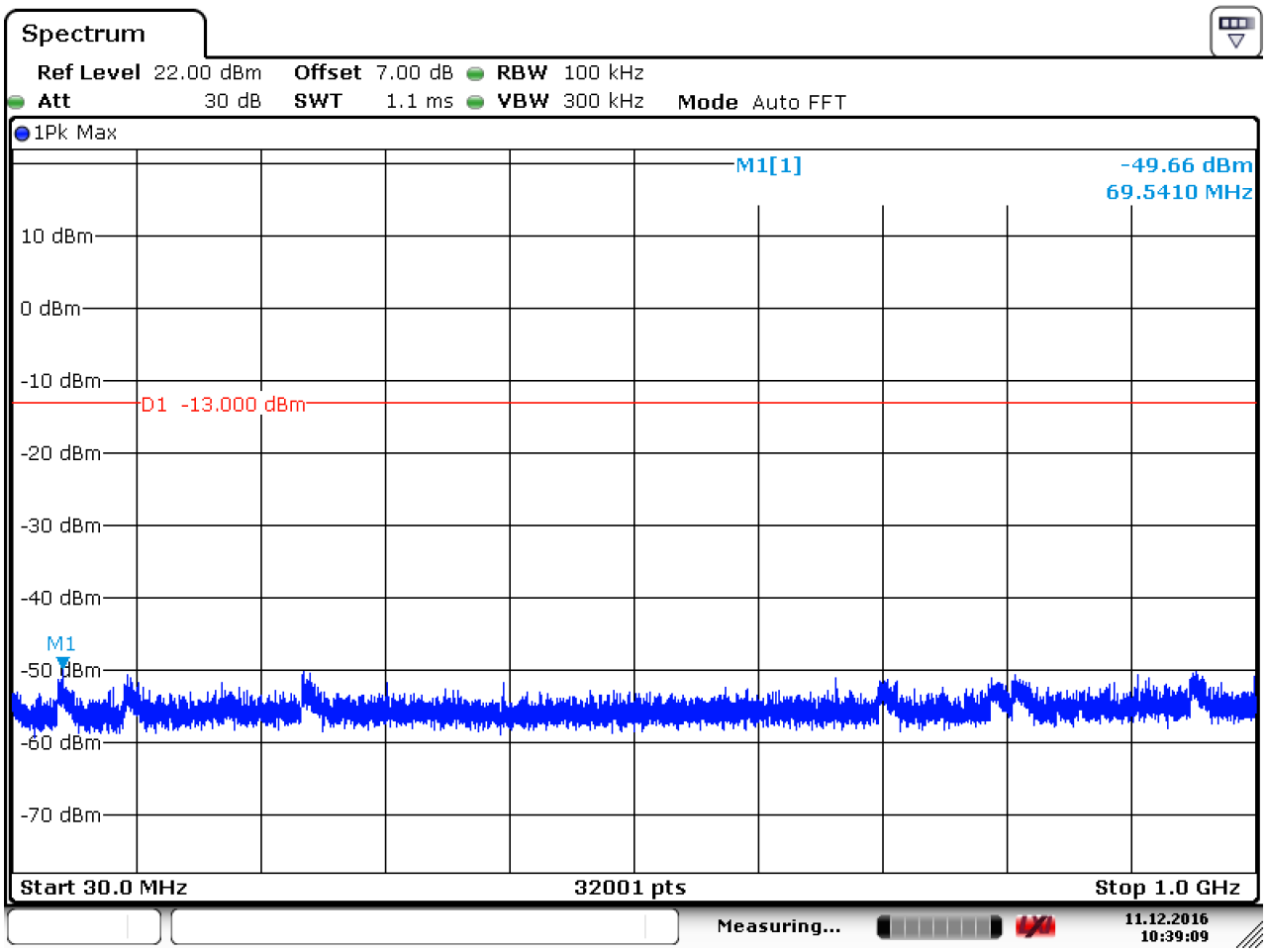


Date: 11.DEC.2016 10:55:25



Date: 11.DEC.2016 11:01:02

6.1.1.5.3 Test Channel = HCH



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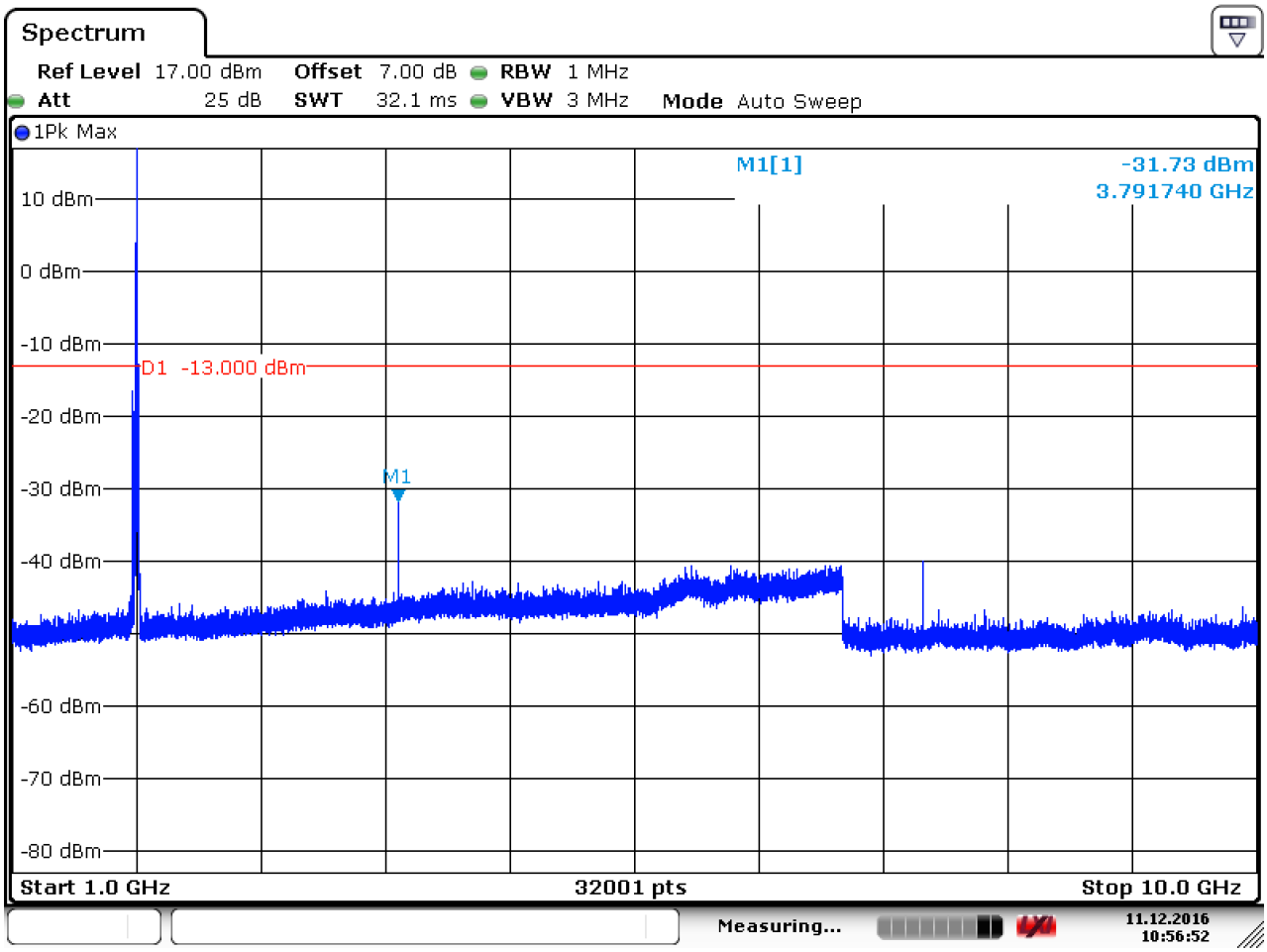

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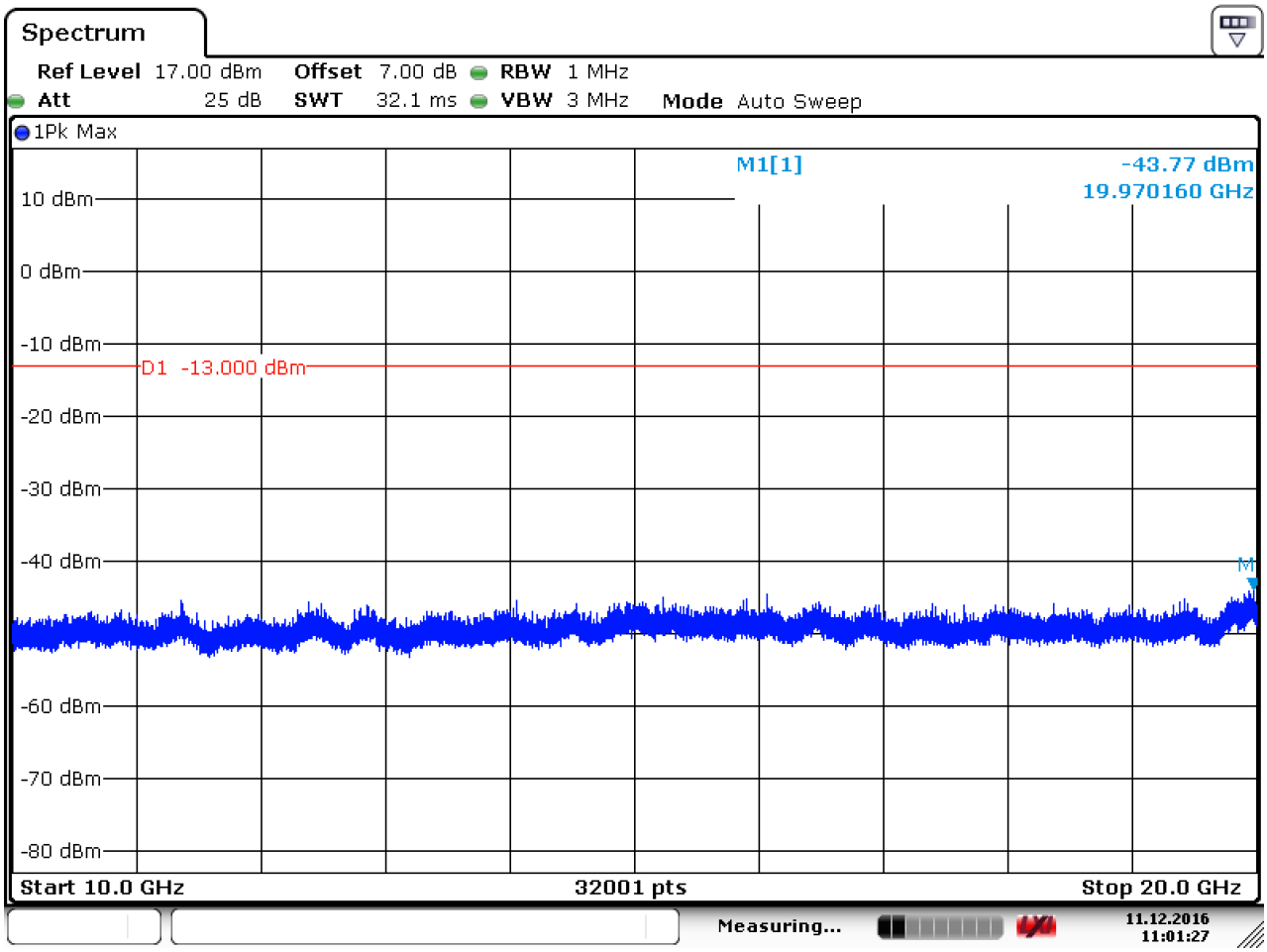
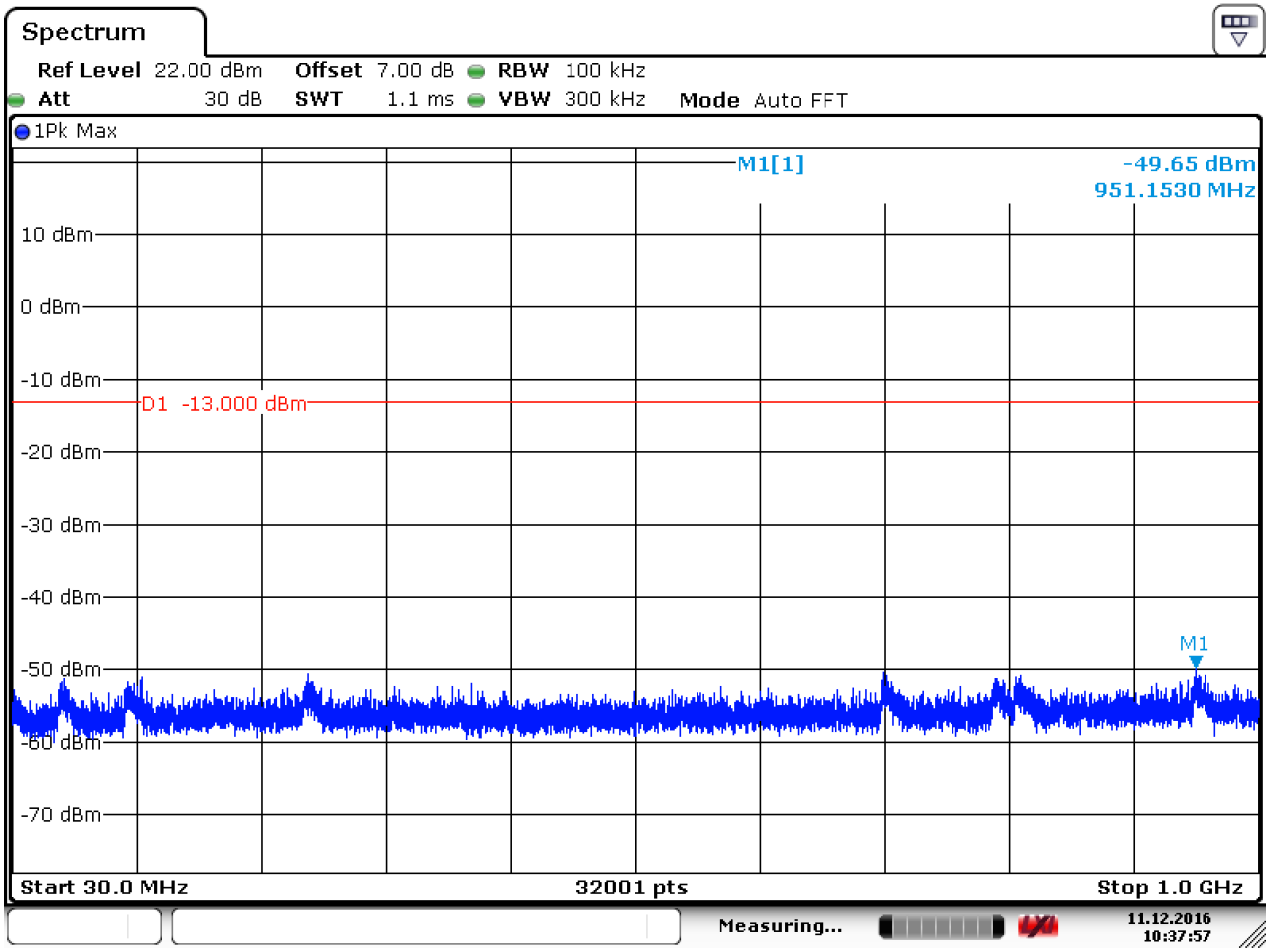


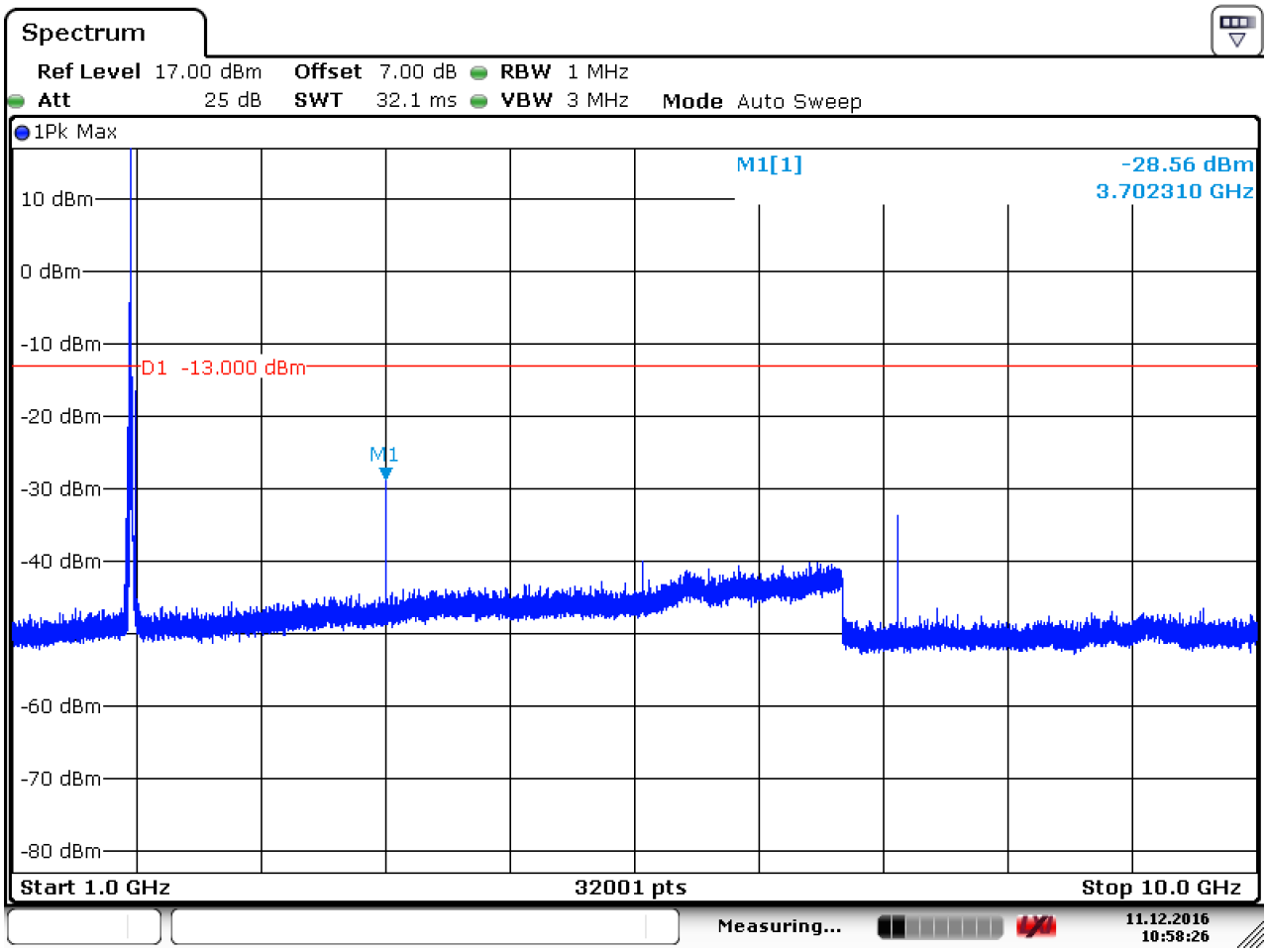
Date: 11.DEC.2016 11:01:27

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

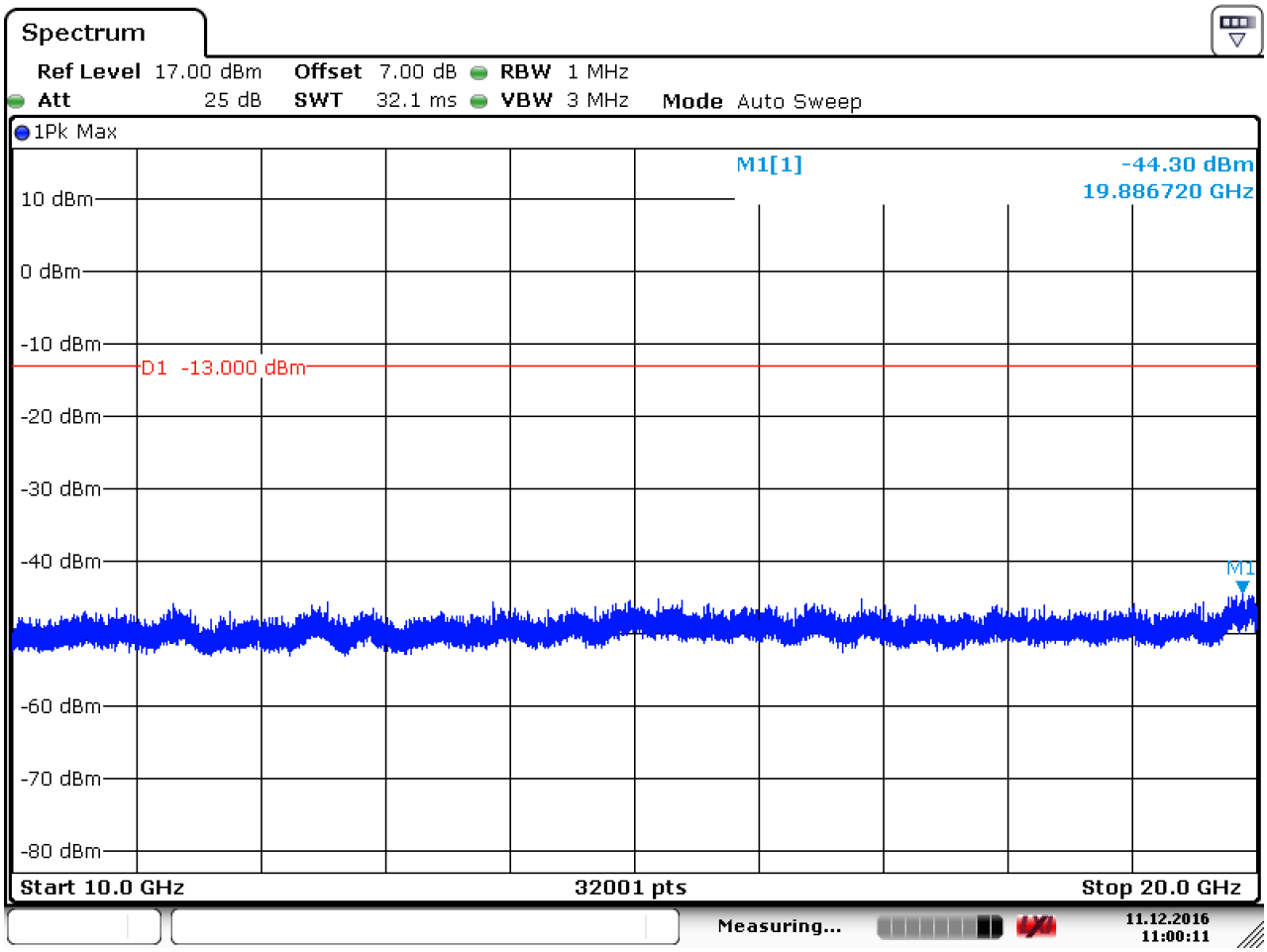
6.1.1.6.1 Test Channel = LCH



Date: 11.DEC.2016 10:37:57

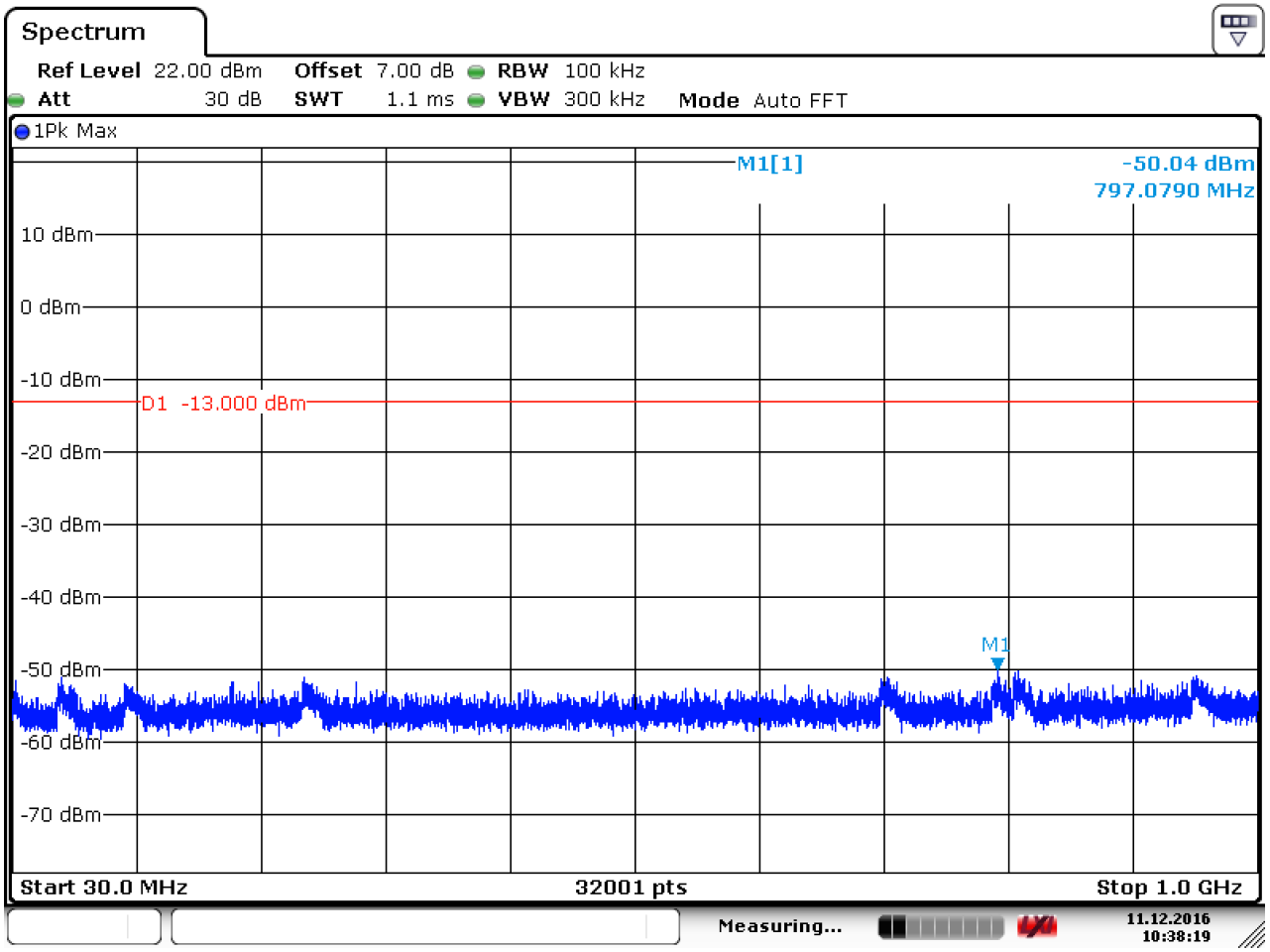


Date: 11.DEC.2016 10:58:26

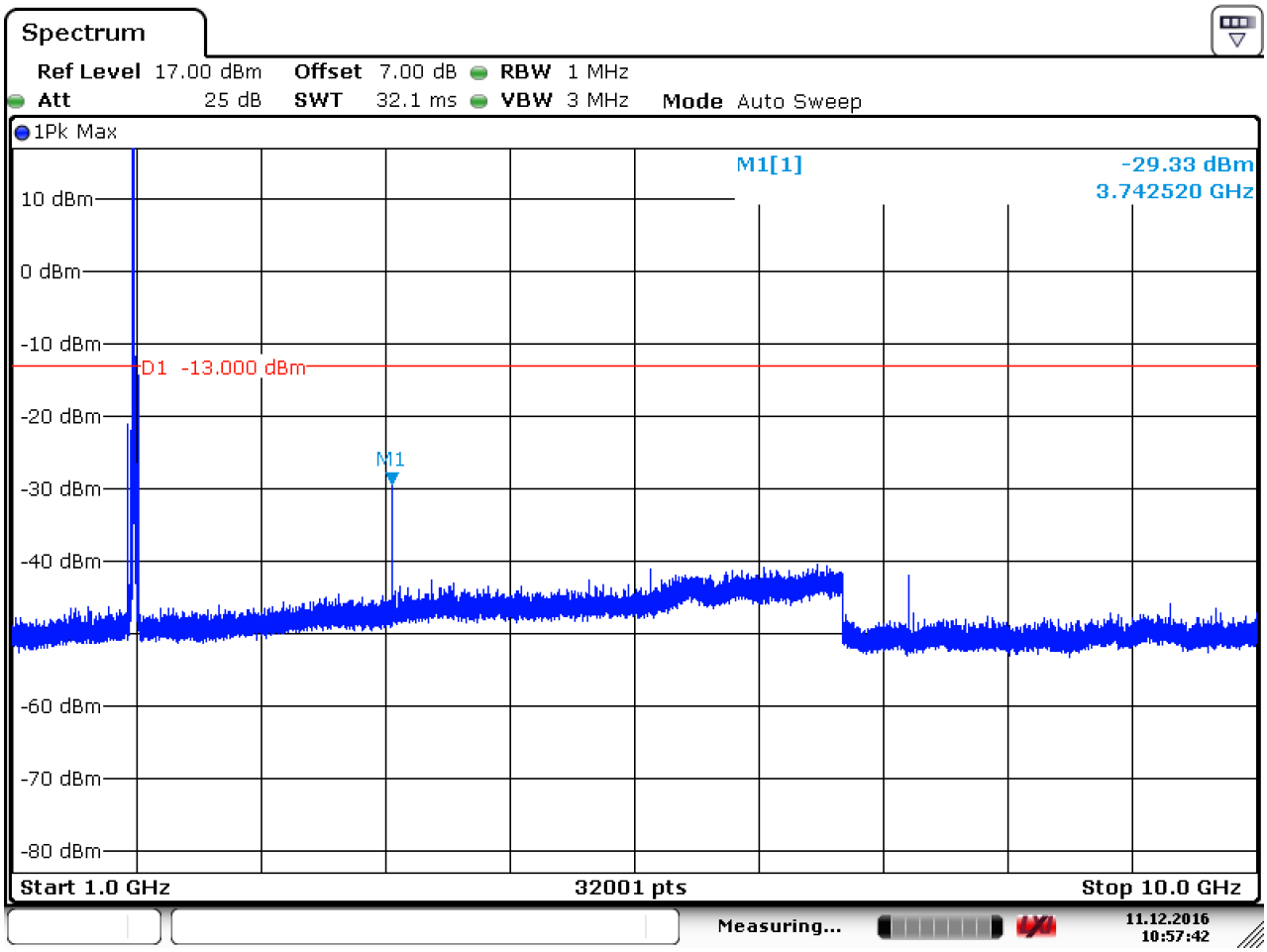


Date: 11.DEC.2016 11:00:11

6.1.1.6.2 Test Channel = MCH



Date: 11.DEC.2016 10:38:20



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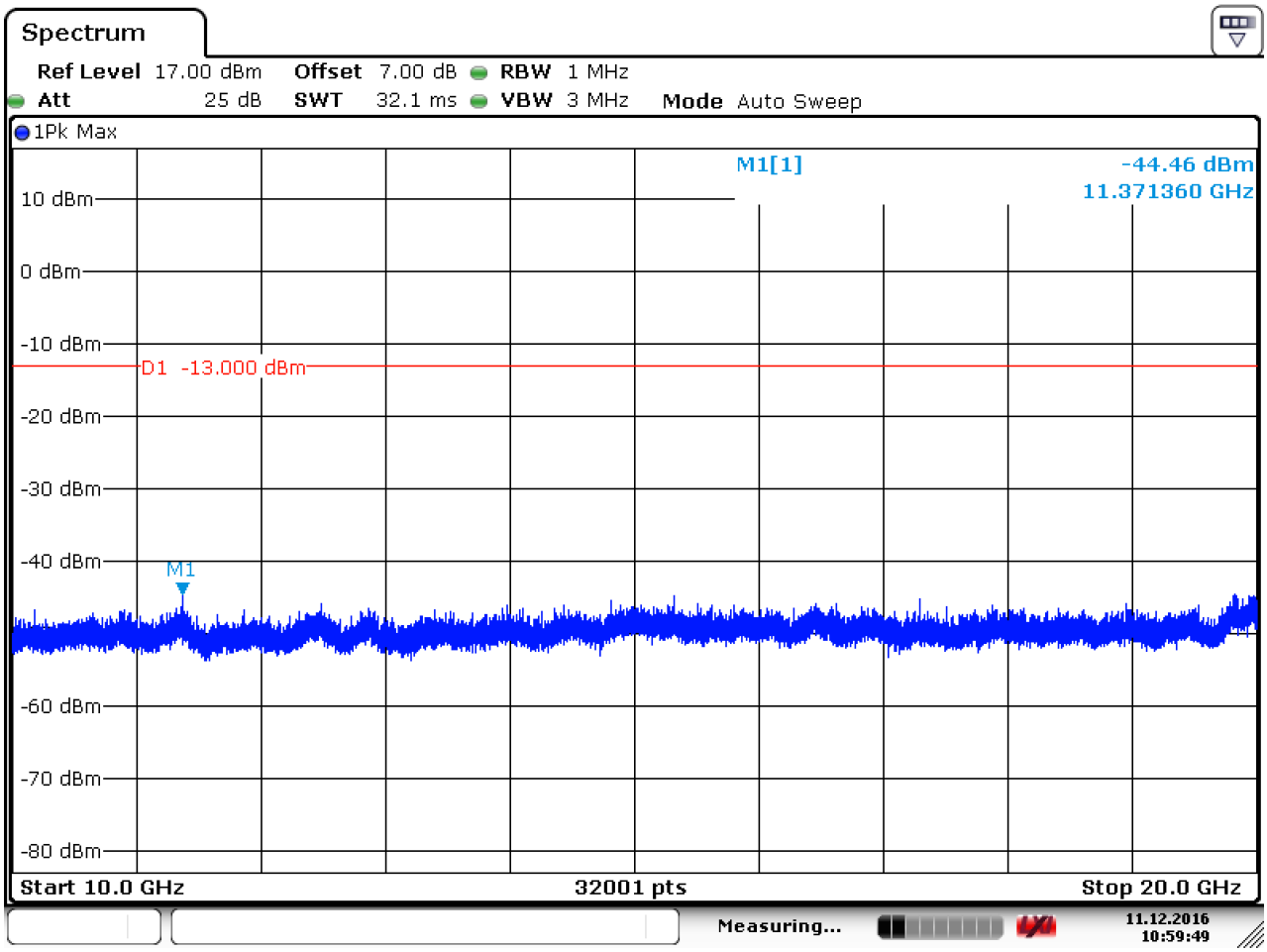
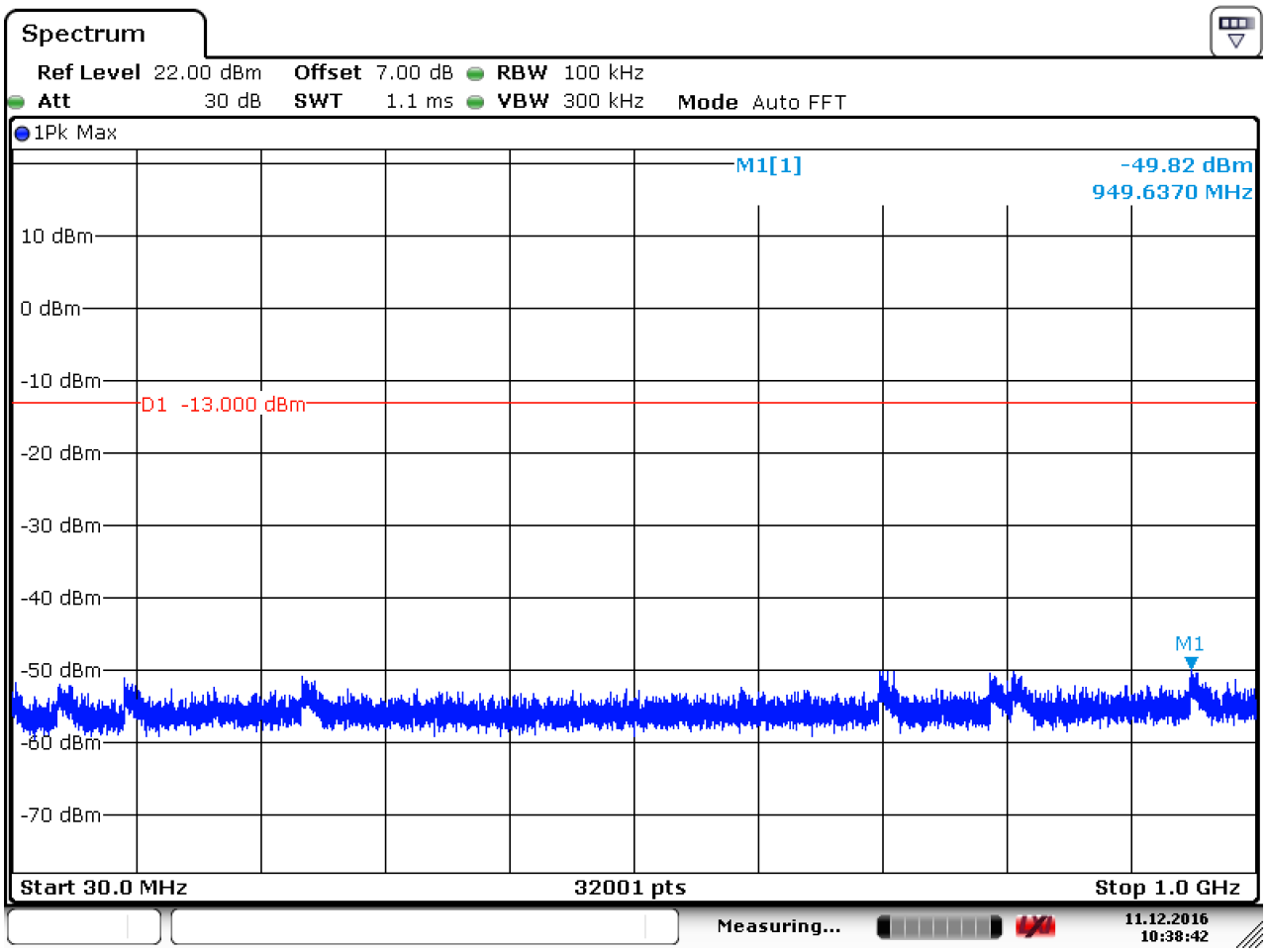
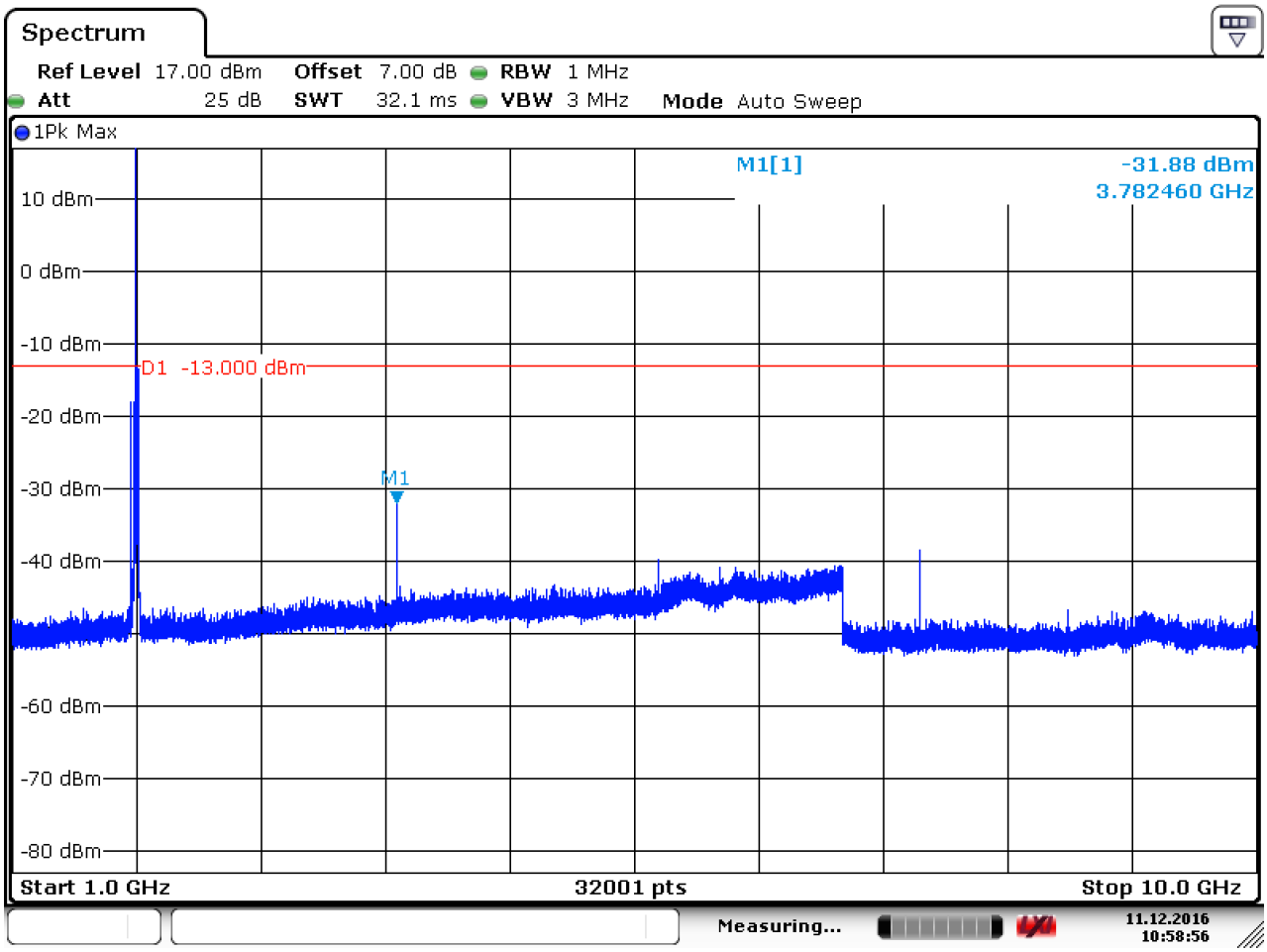


Date: 11.DEC.2016 10:59:49

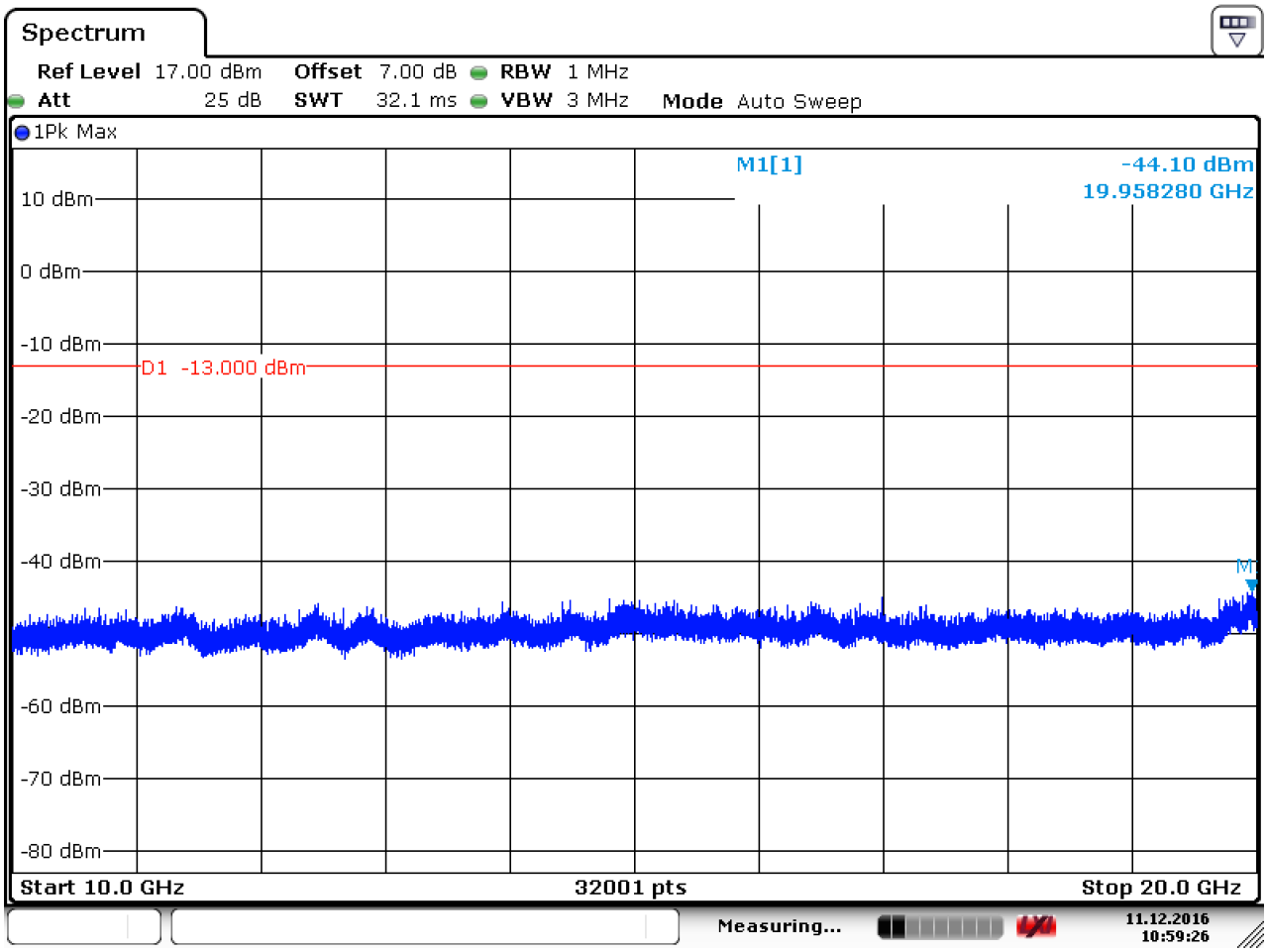
6.1.1.6.3 Test Channel = HCH



Date: 11.DEC.2016 10:38:42



Date: 11.DEC.2016 10:58:57



Date: 11.DEC.2016 10:59:26

7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band2

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
1122.000	-66.90	-13.00	53.90	Vertical
1287.000	-66.71	-13.00	53.71	Vertical
1628.000	-65.43	-13.00	52.43	Vertical
1144.000	-67.53	-13.00	54.53	Horizontal
1826.000	-63.33	-13.00	50.33	Horizontal
2296.000	-59.38	-13.00	46.38	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1529.000	-66.64	-13.00	53.64	Vertical
3877.500	-68.73	-13.00	55.73	Vertical
5340.000	-67.65	-13.00	54.65	Vertical
1408.000	-67.40	-13.00	54.40	Horizontal
2584.000	-58.69	-13.00	45.69	Horizontal
4950.000	-67.00	-13.00	54.00	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2013.000	-63.16	-13.00	50.16	Vertical
2592.000	-58.23	-13.00	45.23	Vertical
6802.500	-66.10	-13.00	53.10	Vertical
4365.000	-68.12	-13.00	55.12	Horizontal
6217.500	-66.25	-13.00	53.25	Horizontal
8655.000	-65.24	-13.00	52.24	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 band2	LTE/TM1 20MHz	LCH	TN	VL	-3.54	-0.00190	PASS
				VN	1.23	0.00066	PASS
				VH	-5.03	-0.00270	PASS
		MCH	TN	VL	2.45	0.00130	PASS
				VN	-1.84	-0.00098	PASS
				VH	2.22	0.00118	PASS
		HCH	TN	VL	-2.51	-0.00132	PASS
				VN	-5.17	-0.00272	PASS
				VH	-1.29	-0.00068	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-3.48	-0.00187	PASS
				VN	-2.63	-0.00141	PASS
				VH	-3.86	-0.00208	PASS
		MCH	TN	VL	1.57	0.00084	PASS
				VN	-2.61	-0.00139	PASS
				VH	2.59	0.00138	PASS
		HCH	TN	VL	-2.58	-0.00136	PASS
				VN	-3.47	-0.00183	PASS
				VH	1.51	0.00079	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 band2	LTE/TM1 20MHz	LCH	VN	-30	-1.04	-0.00056	PASS
				-20	-1.82	-0.00098	PASS
				-10	2.28	0.00123	PASS
				0	2.72	0.00146	PASS
				10	1.38	0.00074	PASS
				20	1.31	0.00070	PASS
				30	-0.31	-0.00017	PASS
				40	-2.14	-0.00115	PASS
				50	4.29	0.00231	PASS
		MCH	VN	-30	-3.80	-0.00202	PASS
				-20	-3.17	-0.00169	PASS
				-10	-6.23	-0.00331	PASS
				0	-4.92	-0.00262	PASS
				10	-2.07	-0.00110	PASS
				20	-6.14	-0.00327	PASS
				30	-5.26	-0.00280	PASS
				40	-3.62	-0.00193	PASS
				50	-6.90	-0.00367	PASS
		HCH	VN	-30	1.84	0.00097	PASS
				-20	-3.29	-0.00173	PASS
				-10	1.38	0.00073	PASS
				0	-2.52	-0.00133	PASS
				10	2.17	0.00114	PASS
				20	-1.52	-0.00080	PASS
				30	-2.37	-0.00125	PASS
				40	-5.32	-0.00280	PASS
				50	-6.97	-0.00367	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTE band2	LTE/TM2 20MHz	LCH	VN	-30	-1.47	-0.00079	PASS
				-20	-2.05	-0.00110	PASS
				-10	3.48	0.00187	PASS
				0	2.14	0.00115	PASS
				10	1.63	0.00088	PASS
				20	-0.23	-0.00012	PASS
				30	-3.44	-0.00185	PASS
				40	5.04	0.00271	PASS
				50	6.69	0.00360	PASS
		MCH	VN	-30	-3.34	-0.00178	PASS
				-20	-5.14	-0.00273	PASS
				-10	-7.13	-0.00379	PASS
				0	-4.37	-0.00232	PASS
				10	-0.84	-0.00045	PASS
				20	1.42	0.00076	PASS
				30	-3.69	-0.00196	PASS
				40	-2.44	-0.00130	PASS
				50	-3.47	-0.00185	PASS
		HCH	VN	-30	1.31	0.00069	PASS
				-20	-2.35	-0.00124	PASS
				-10	1.58	0.00083	PASS
				0	-4.23	-0.00223	PASS
				10	2.81	0.00148	PASS
				20	-1.57	-0.00083	PASS
				30	-2.59	-0.00136	PASS
				40	-5.38	-0.00283	PASS
				50	-6.30	-0.00332	PASS

The End