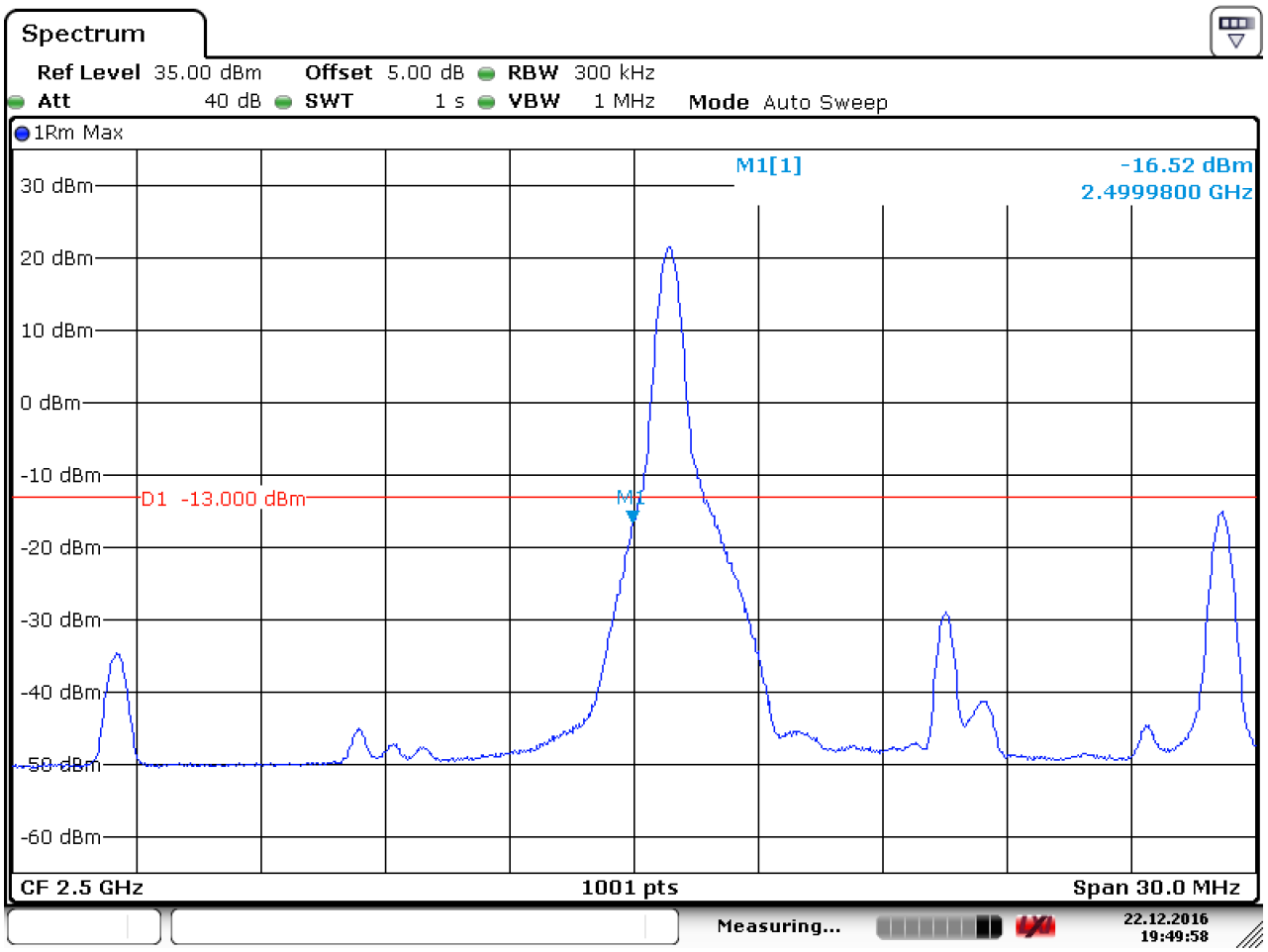
5.1.1.5 Test Mode = LTE/TM1 15MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



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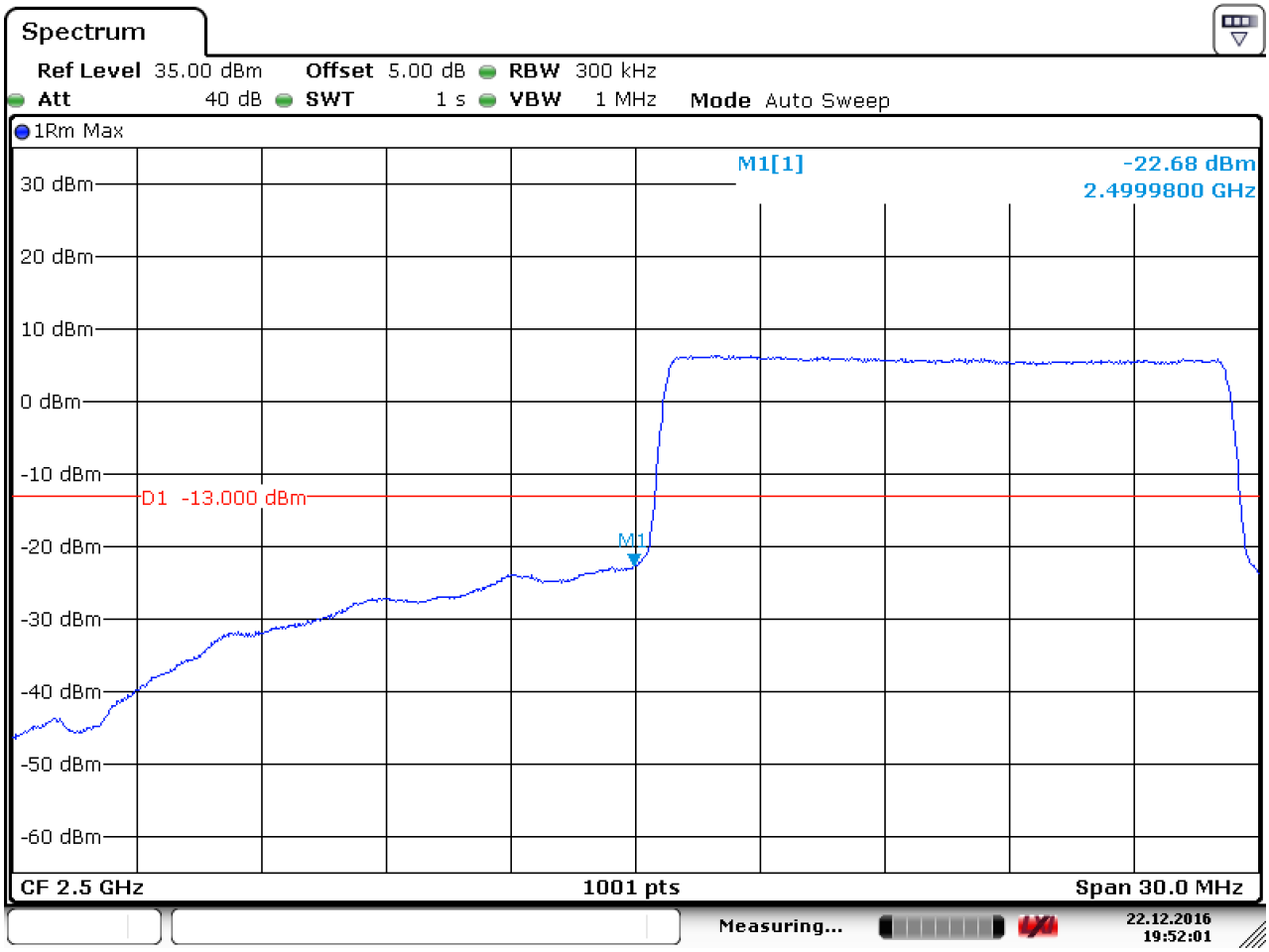
5.1.1.5.1.2 Test RB=75RB



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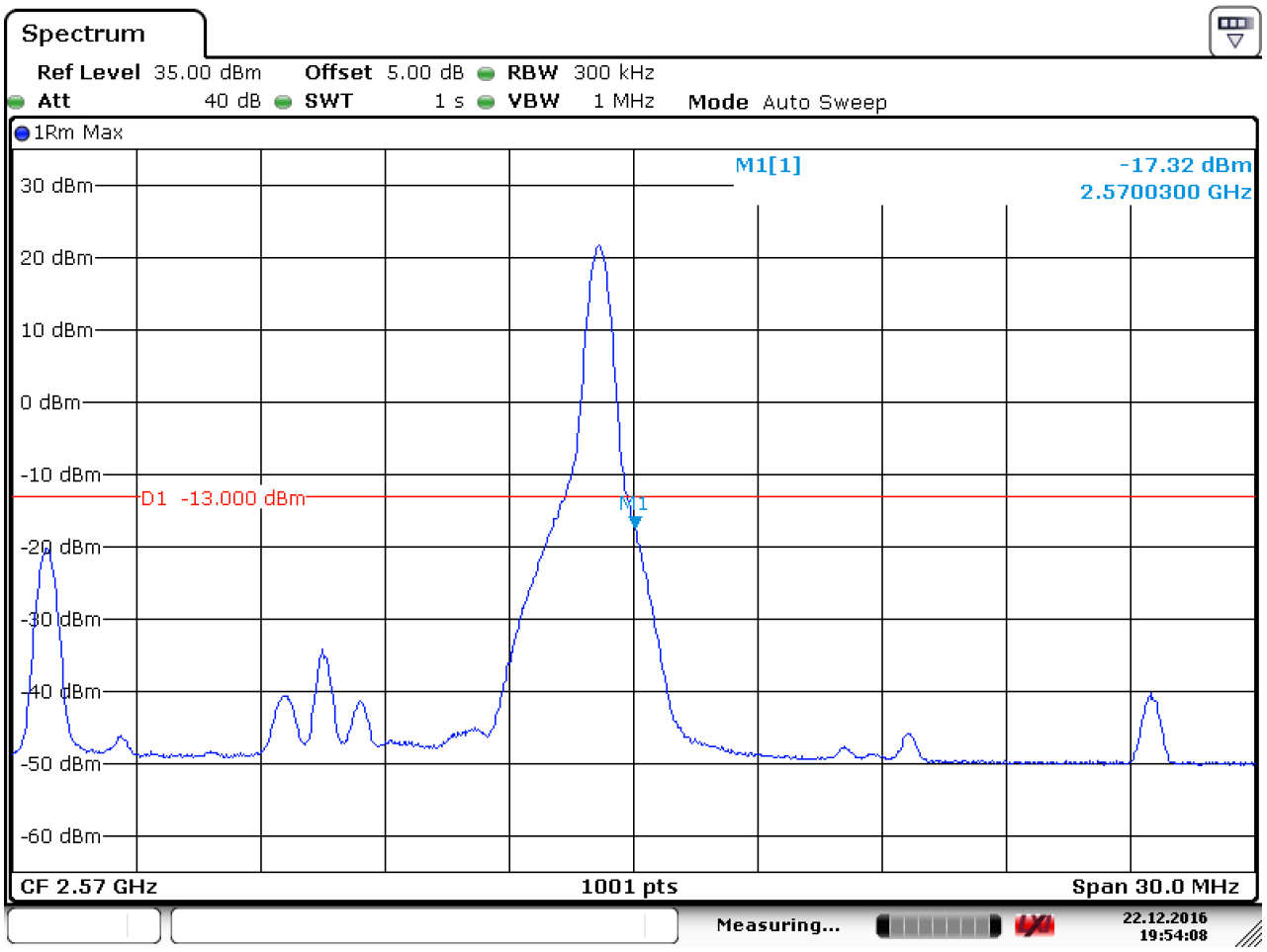
5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



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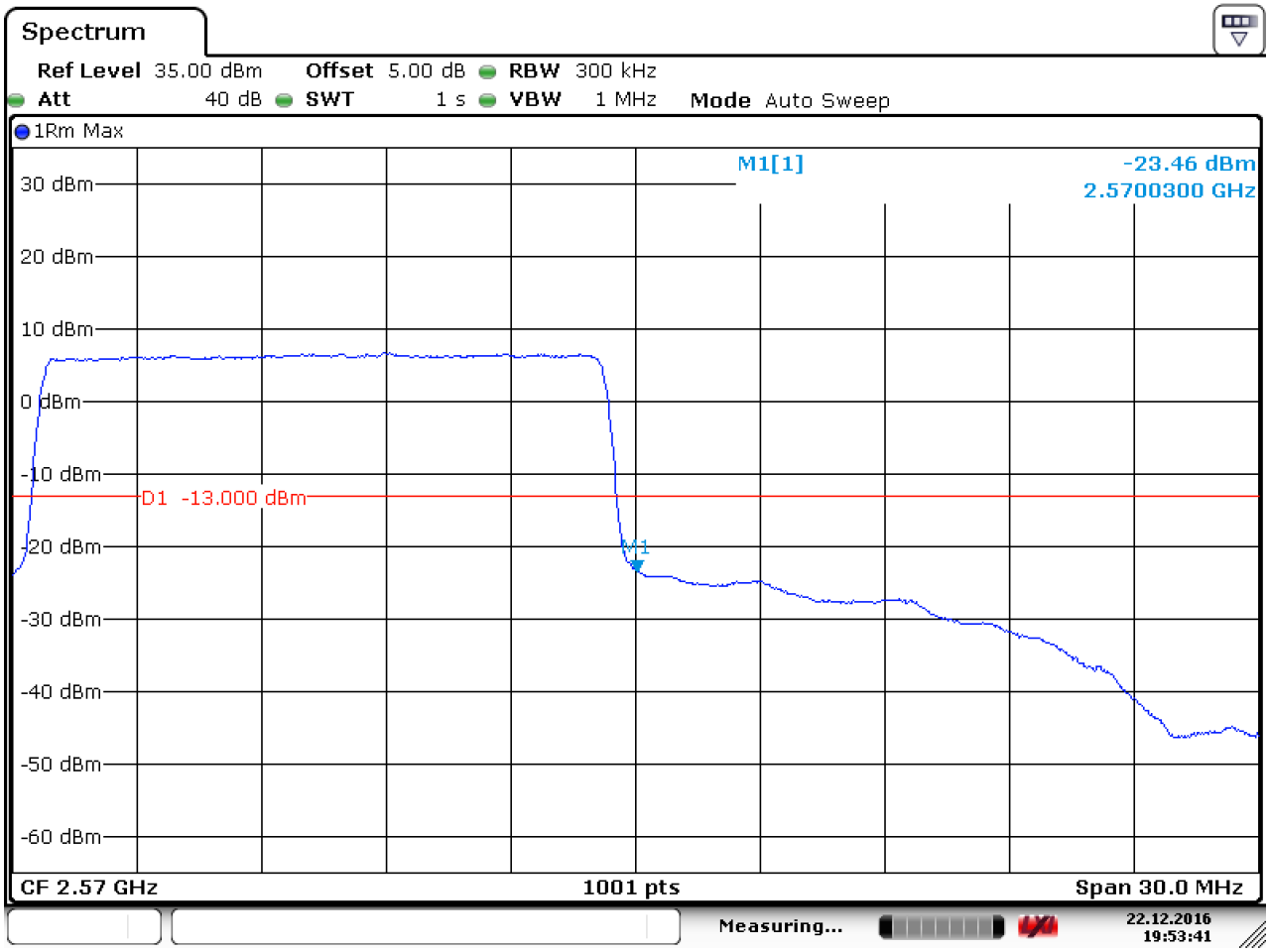
5.1.1.5.2.2 Test RB=75RB



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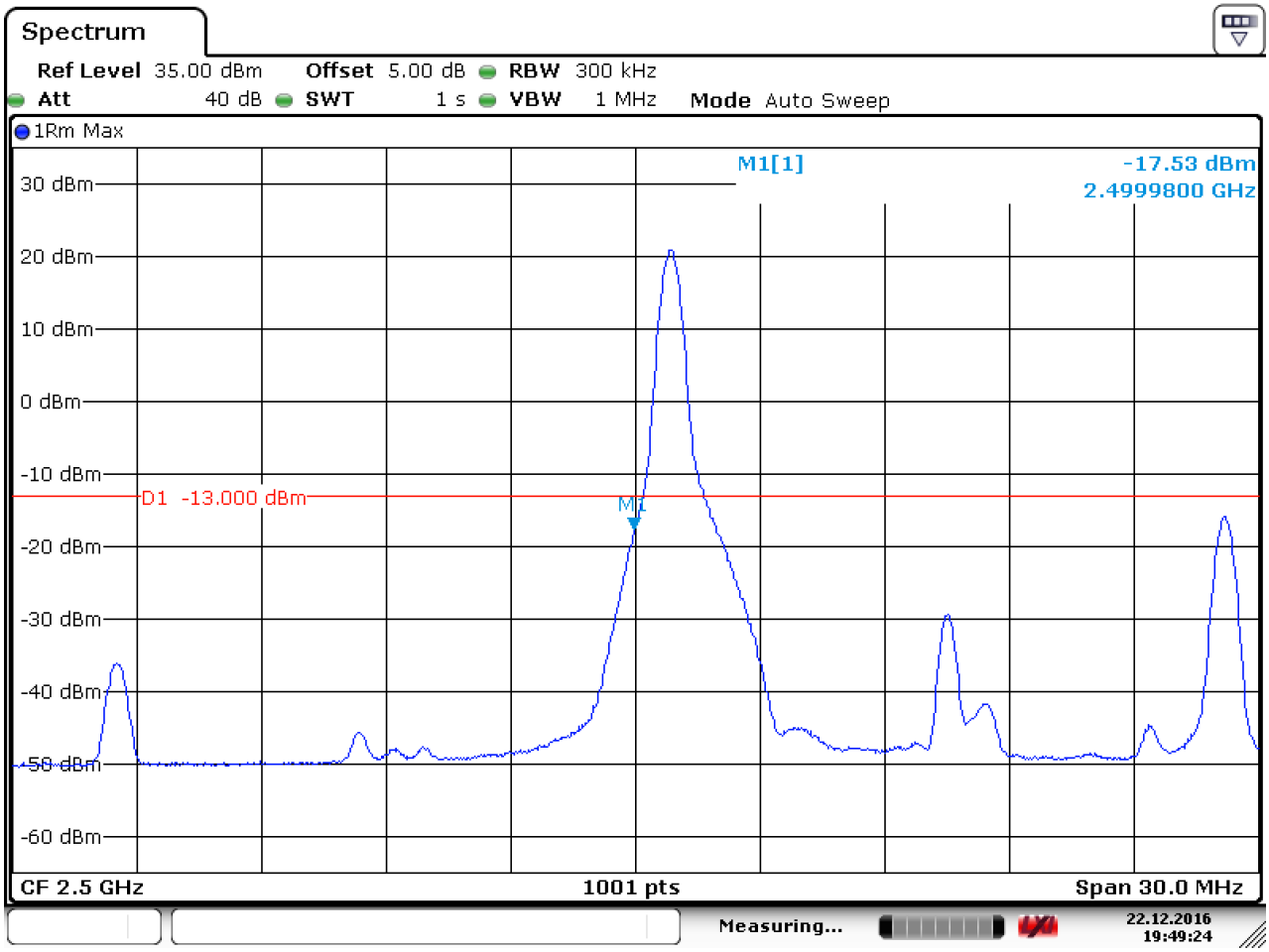
5.1.1.6 Test Mode = LTE/TM2 15MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



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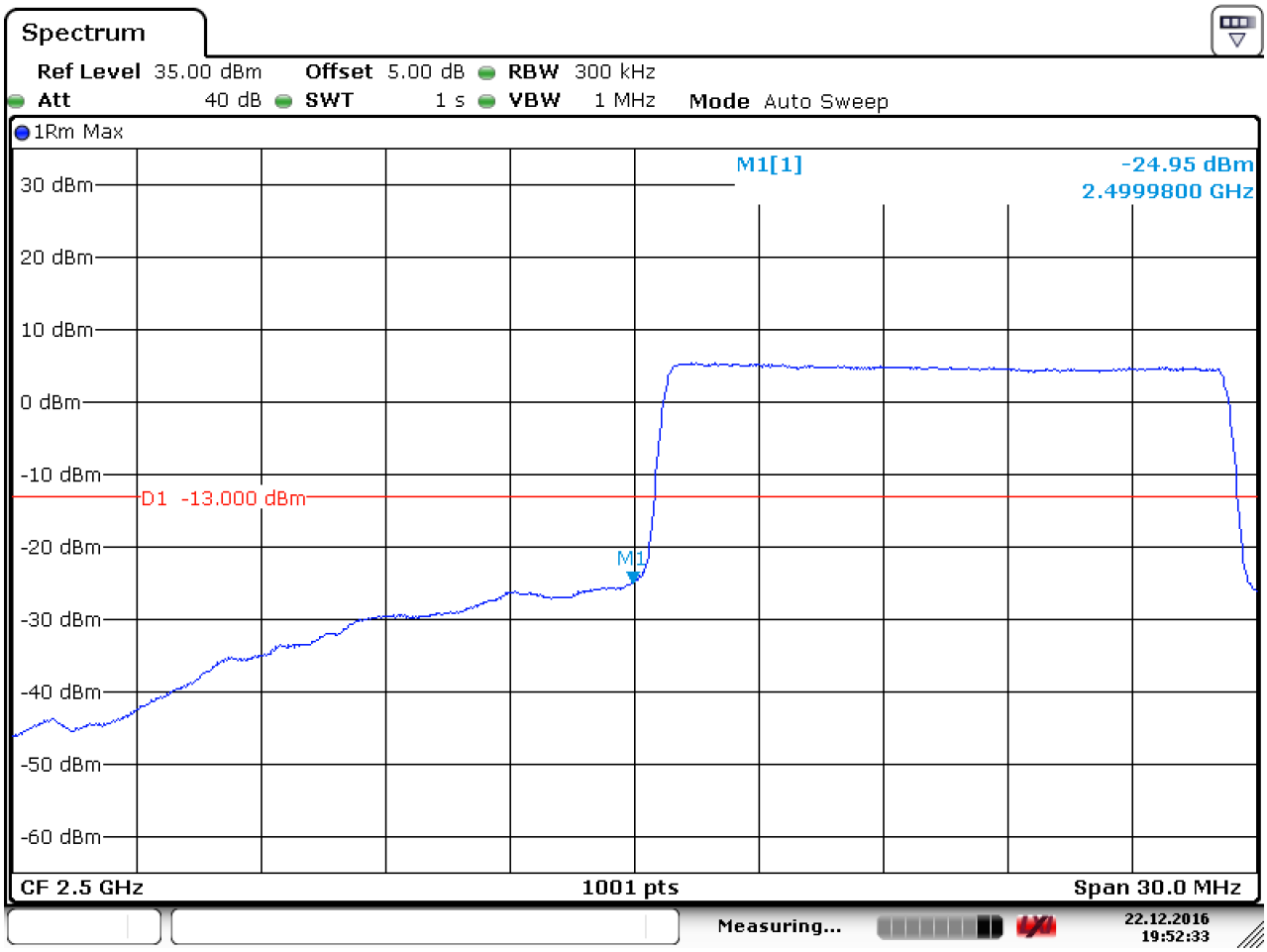
5.1.1.6.1.2 Test RB=75RB



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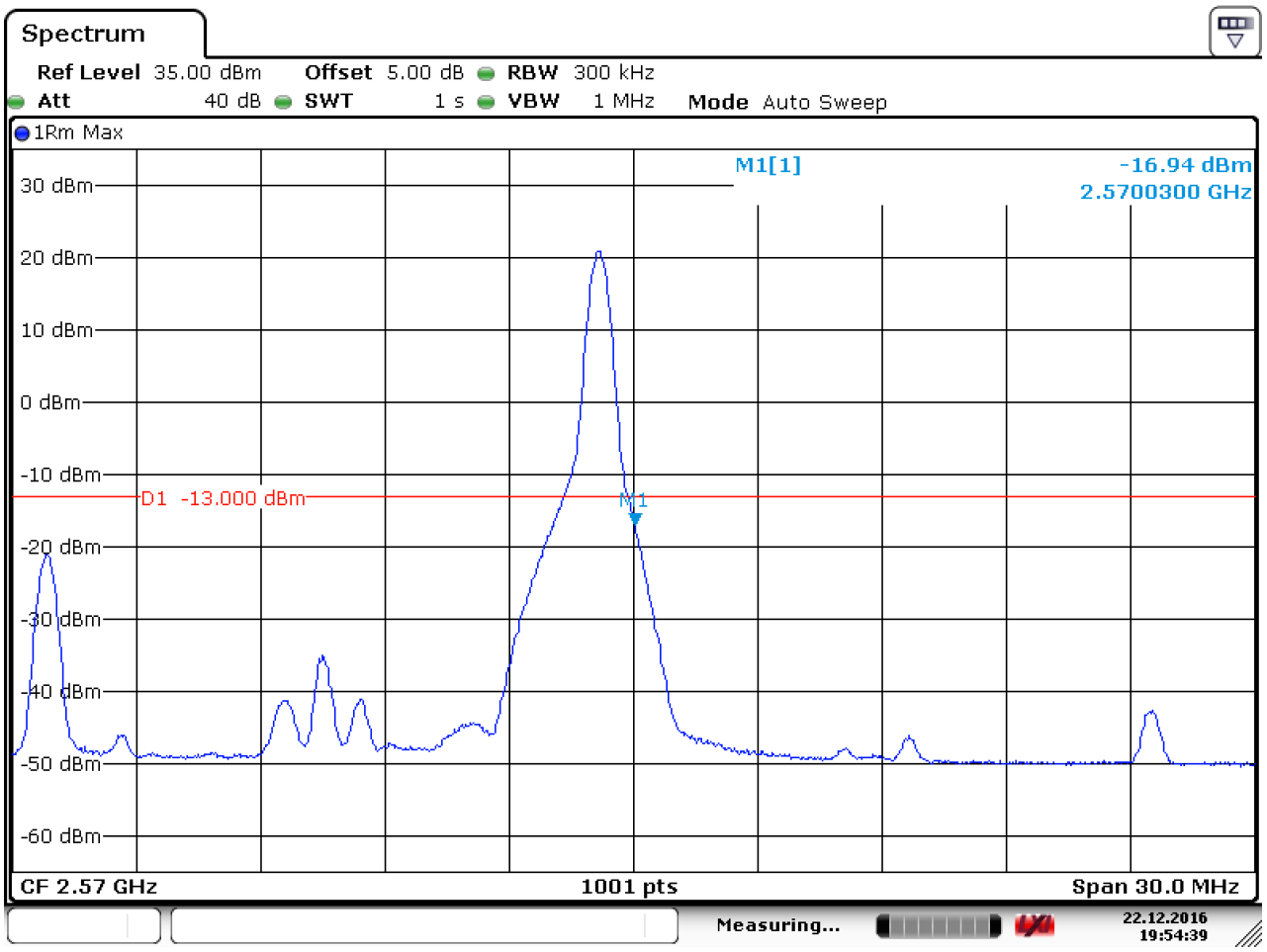
5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



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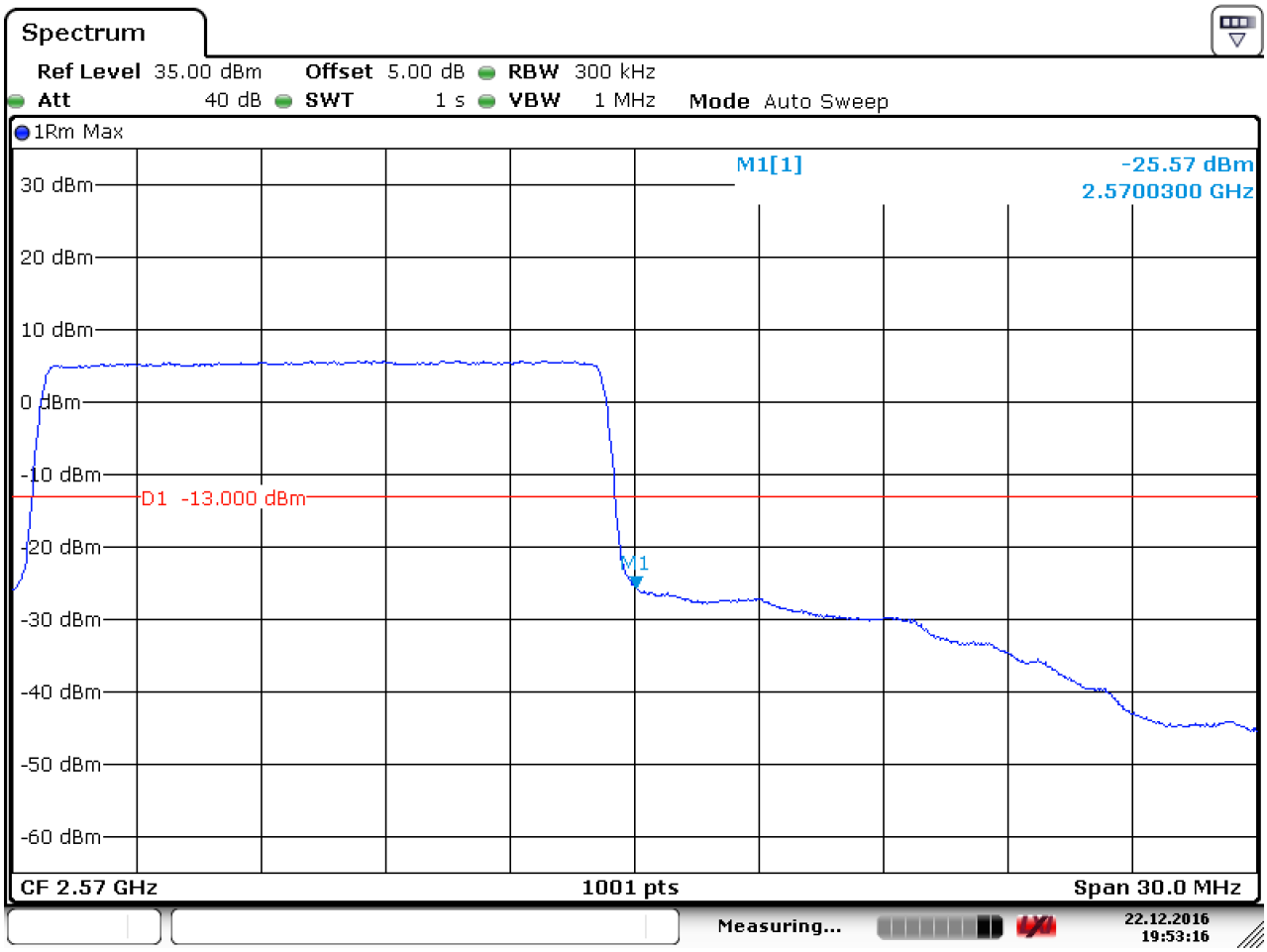
5.1.1.6.2.2 Test RB=75RB



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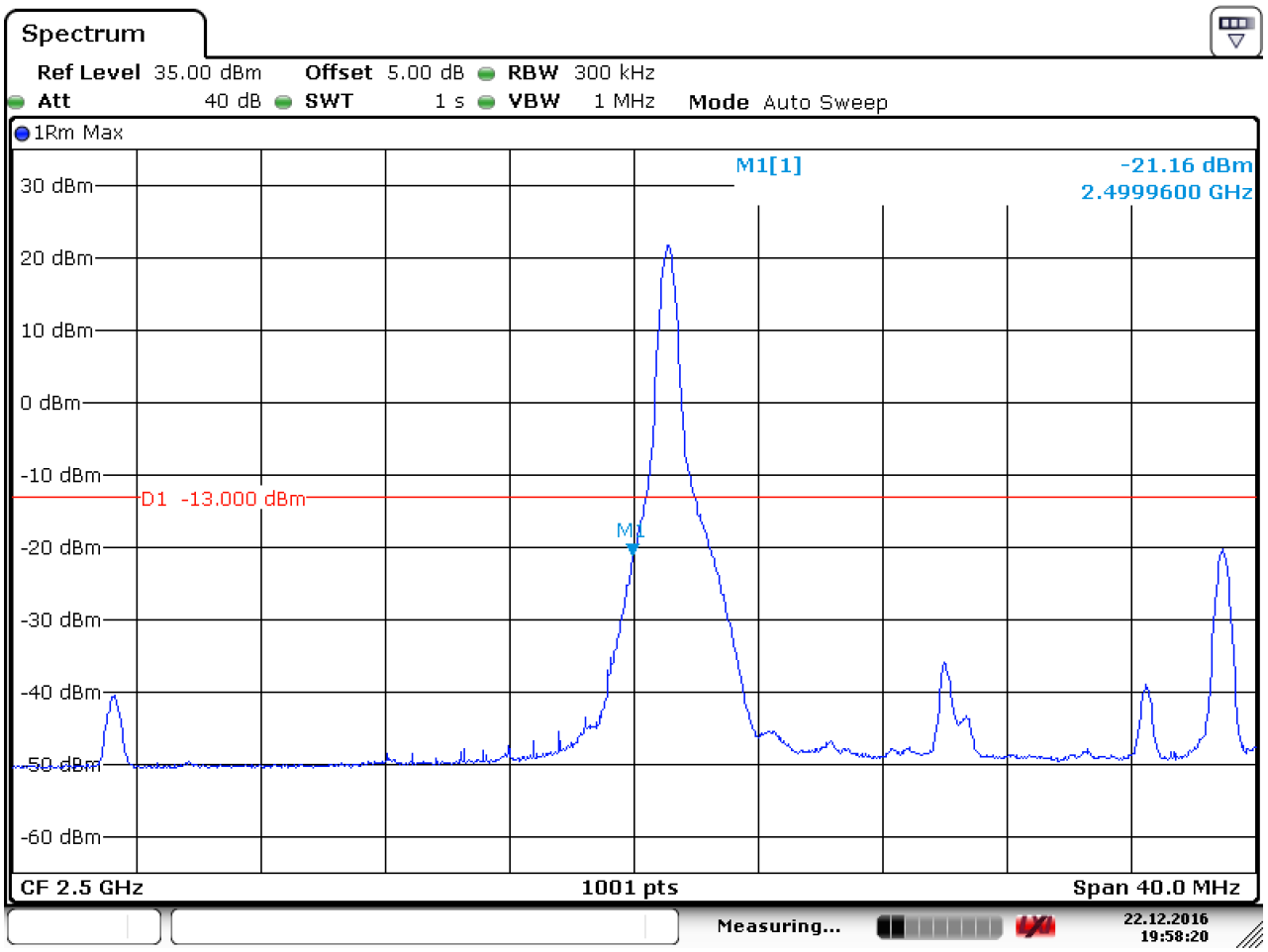
5.1.1.7 Test Mode = LTE/TM1 20MHz

5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



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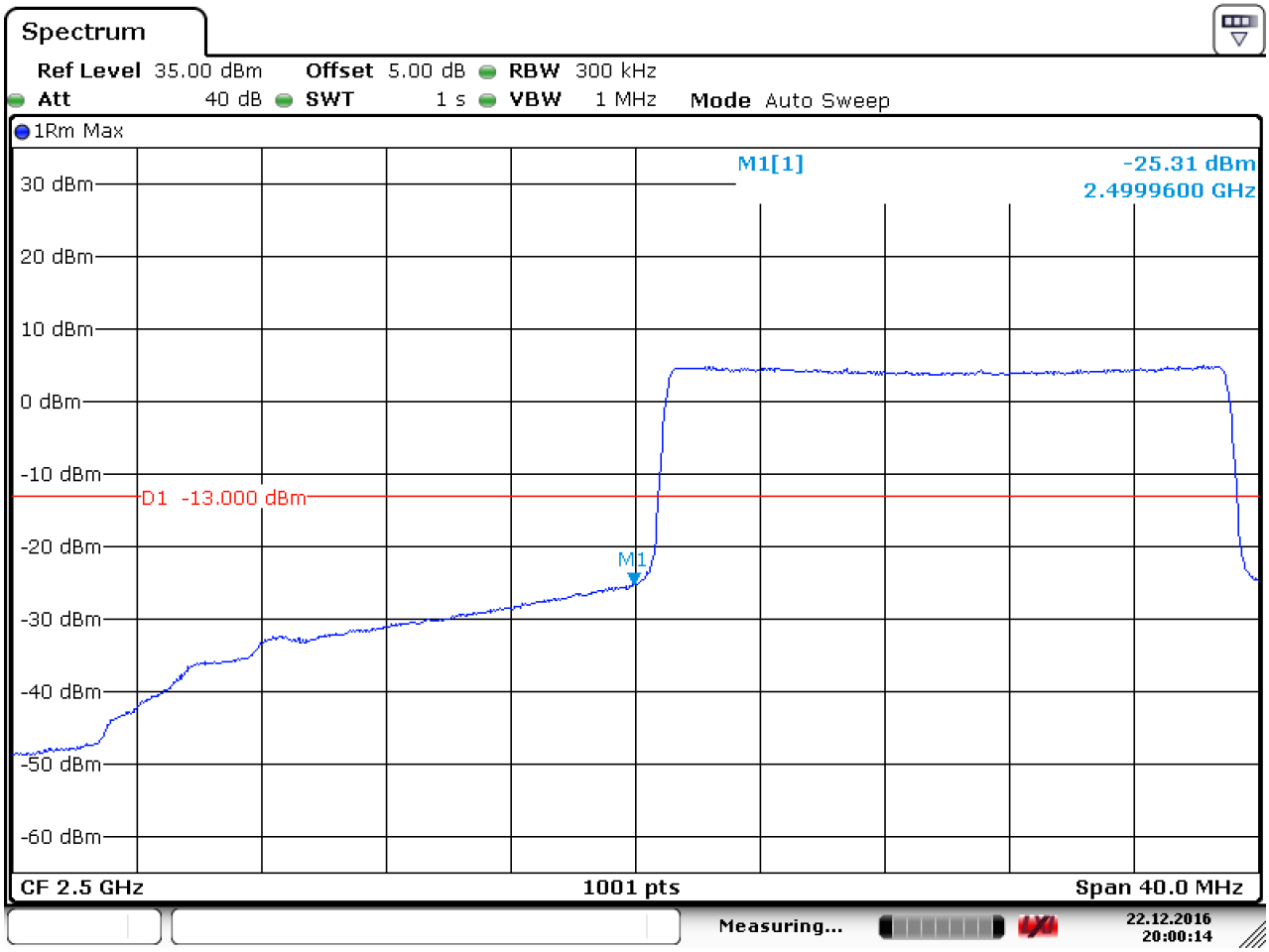
5.1.1.7.1.2 Test RB=100RB



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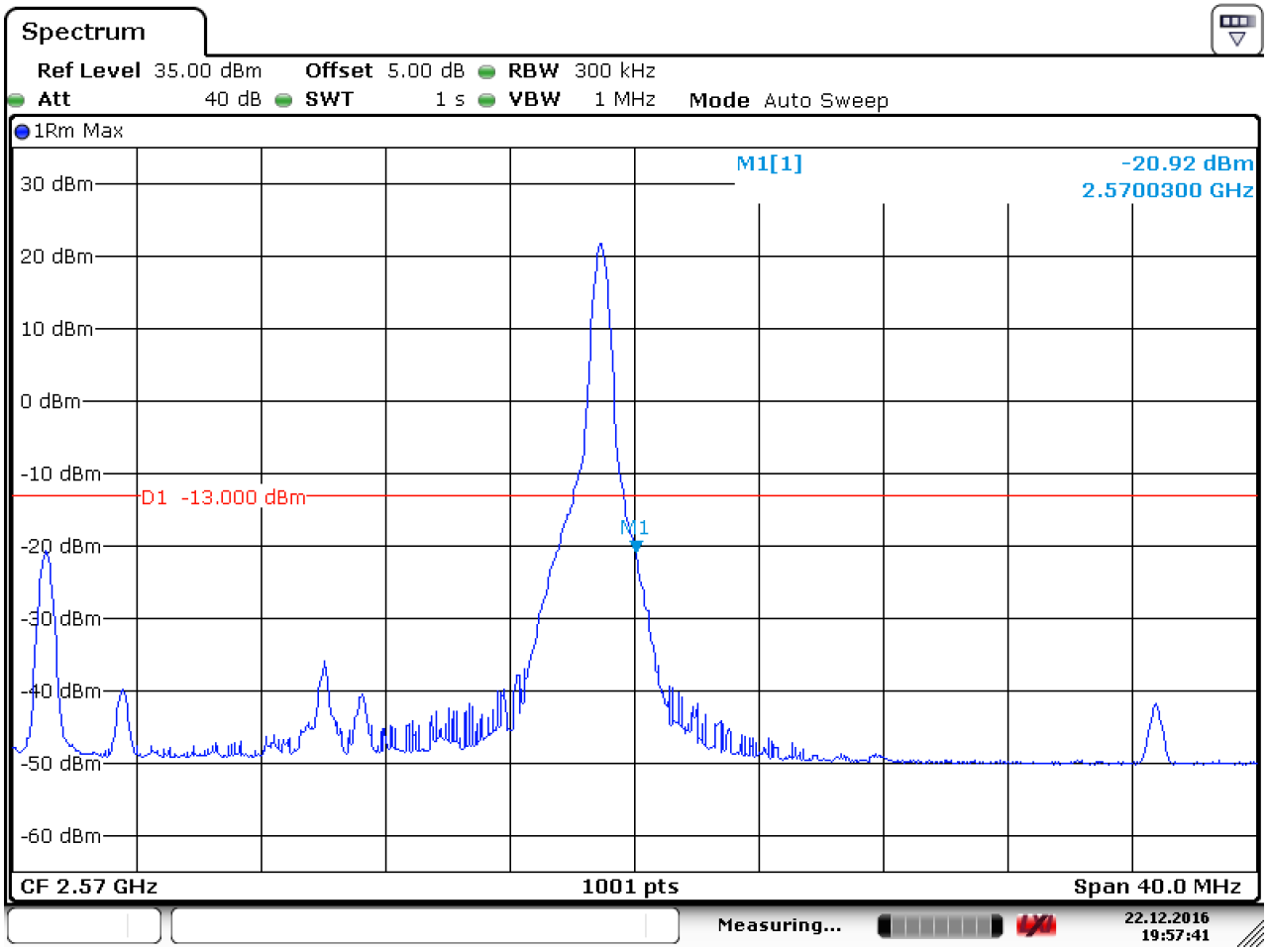
5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



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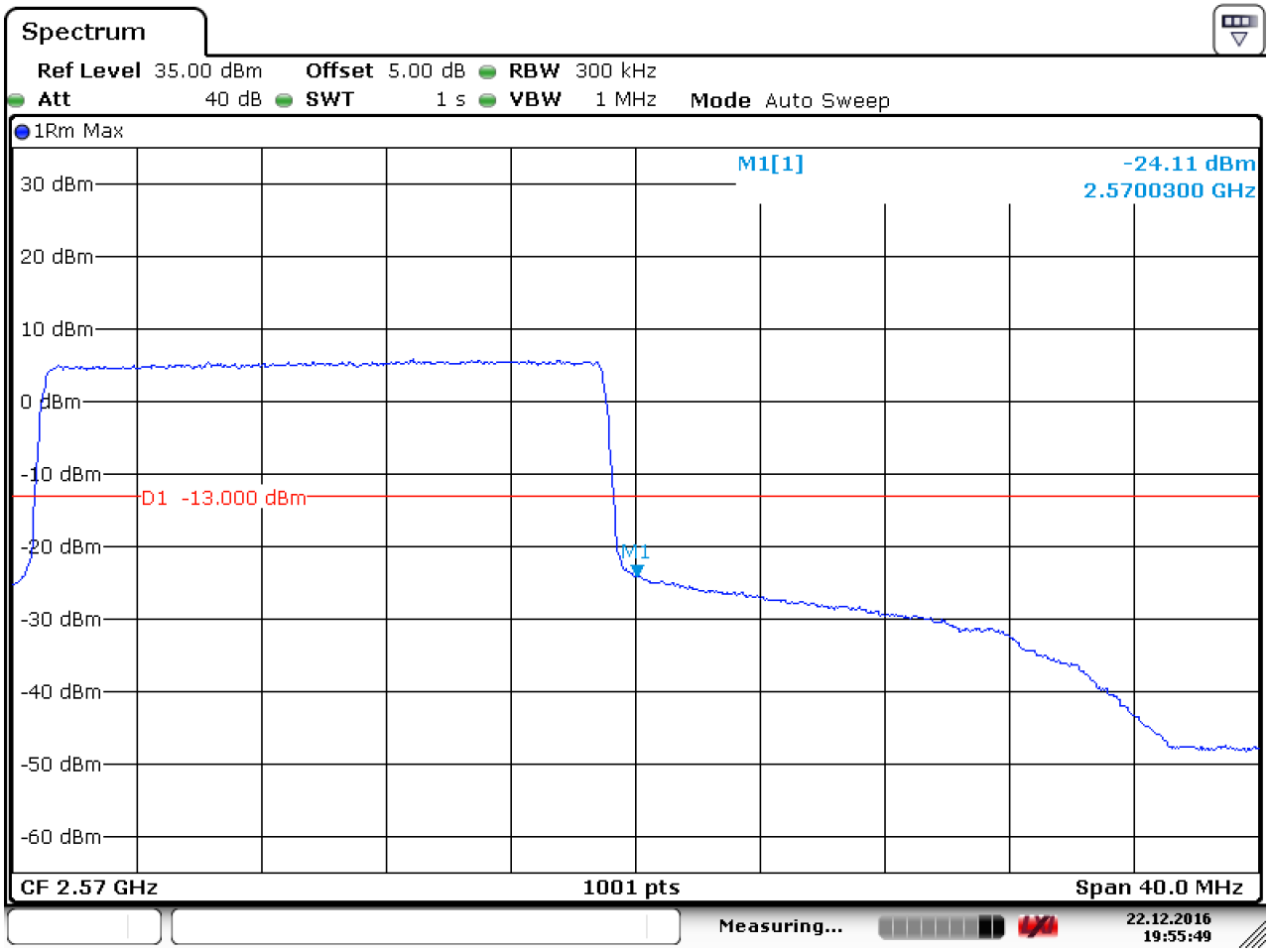
5.1.1.7.2.2 Test RB=100RB



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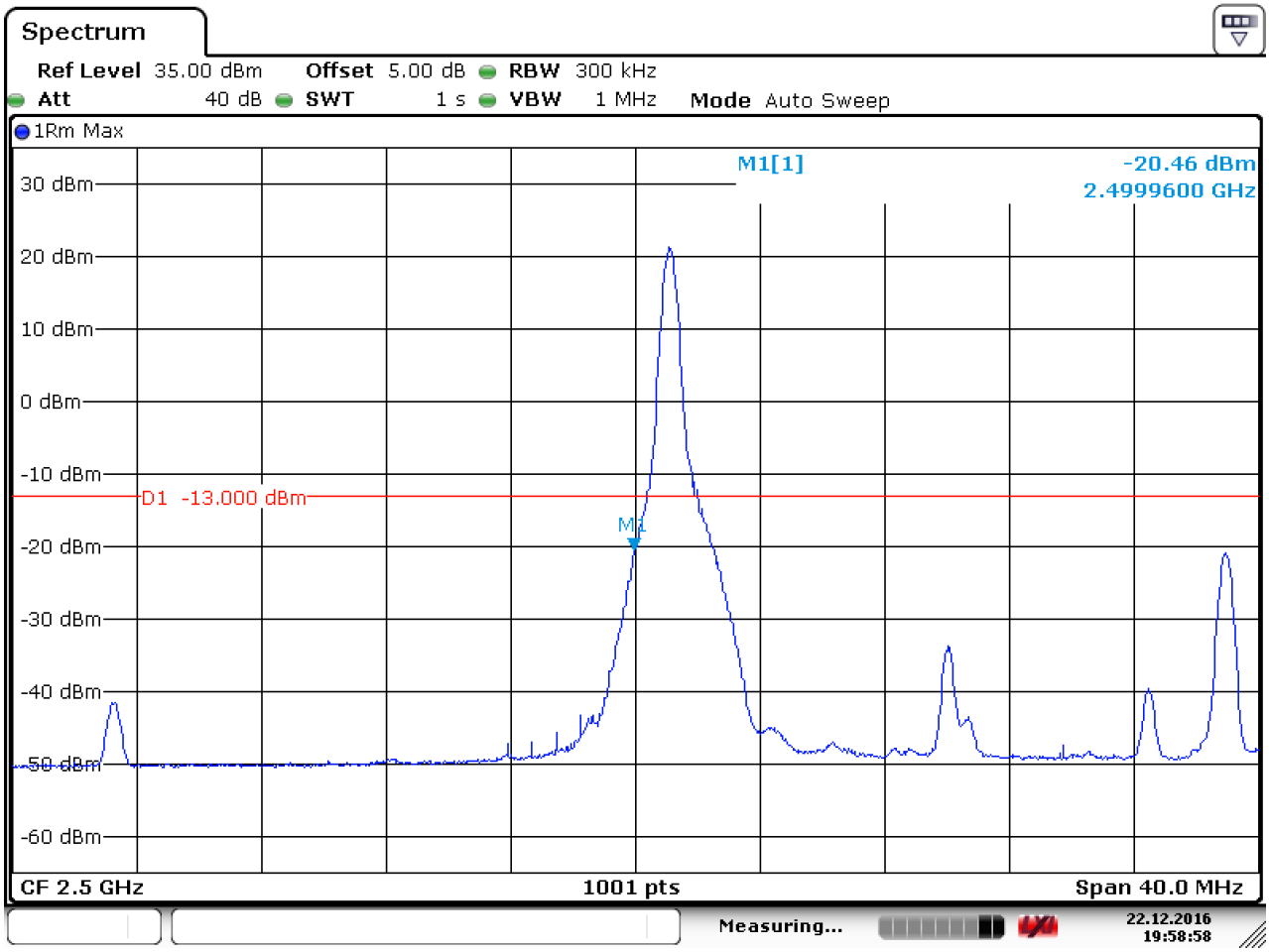
5.1.1.8 Test Mode = LTE/TM2 20MHz

5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



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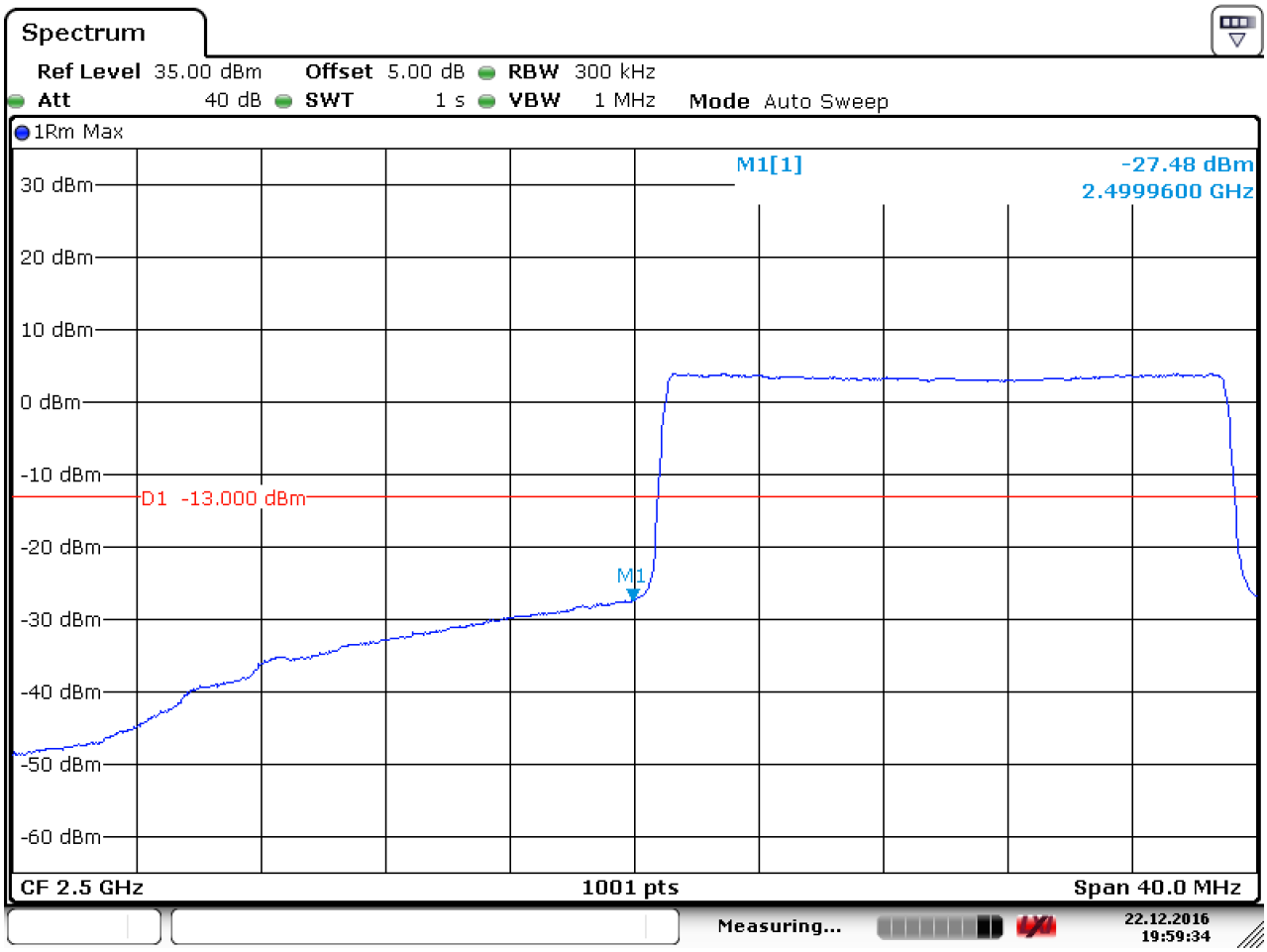
5.1.1.8.1.2 Test RB=100RB



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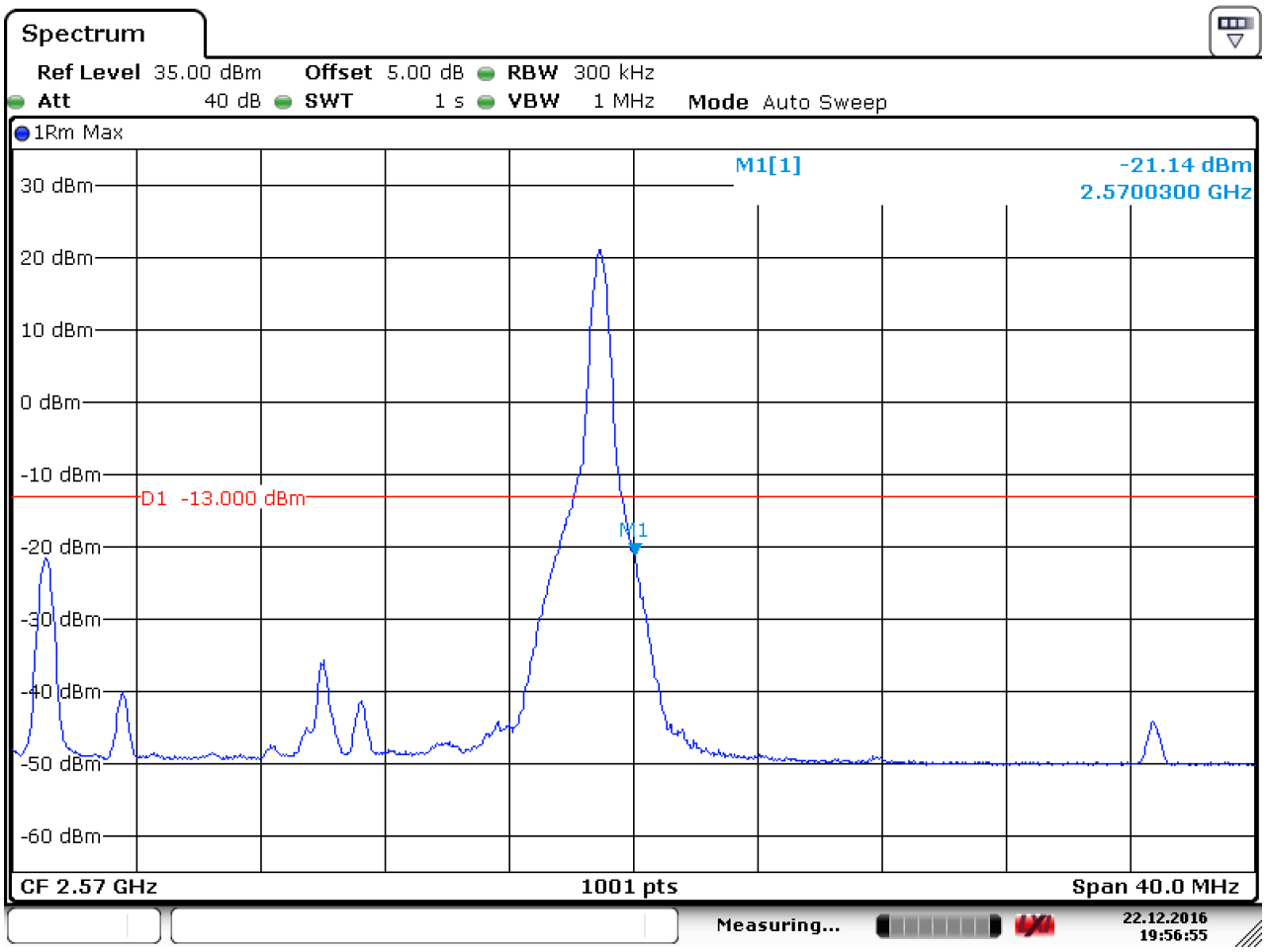
5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



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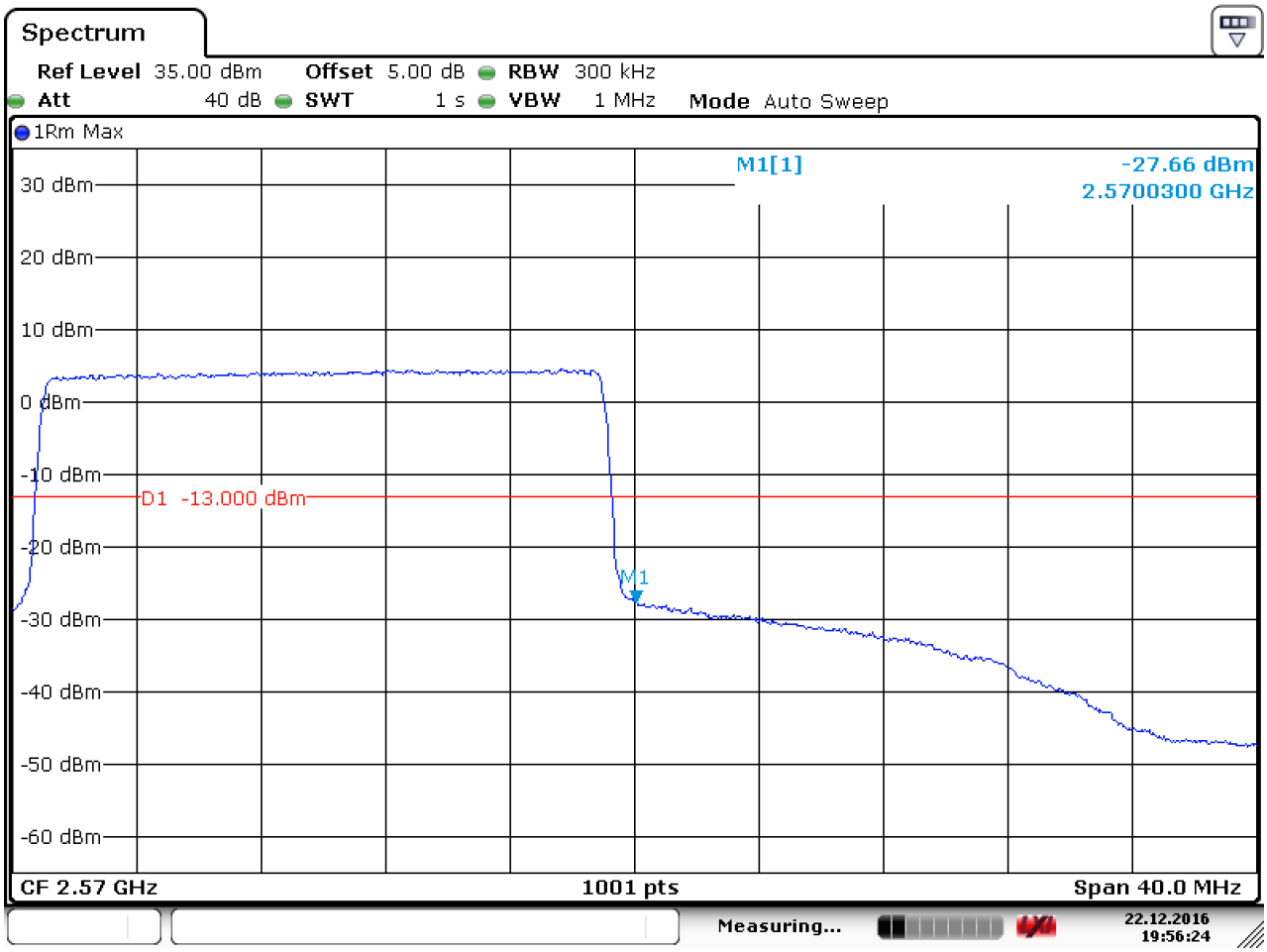
5.1.1.8.2.2 Test RB=100RB



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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.

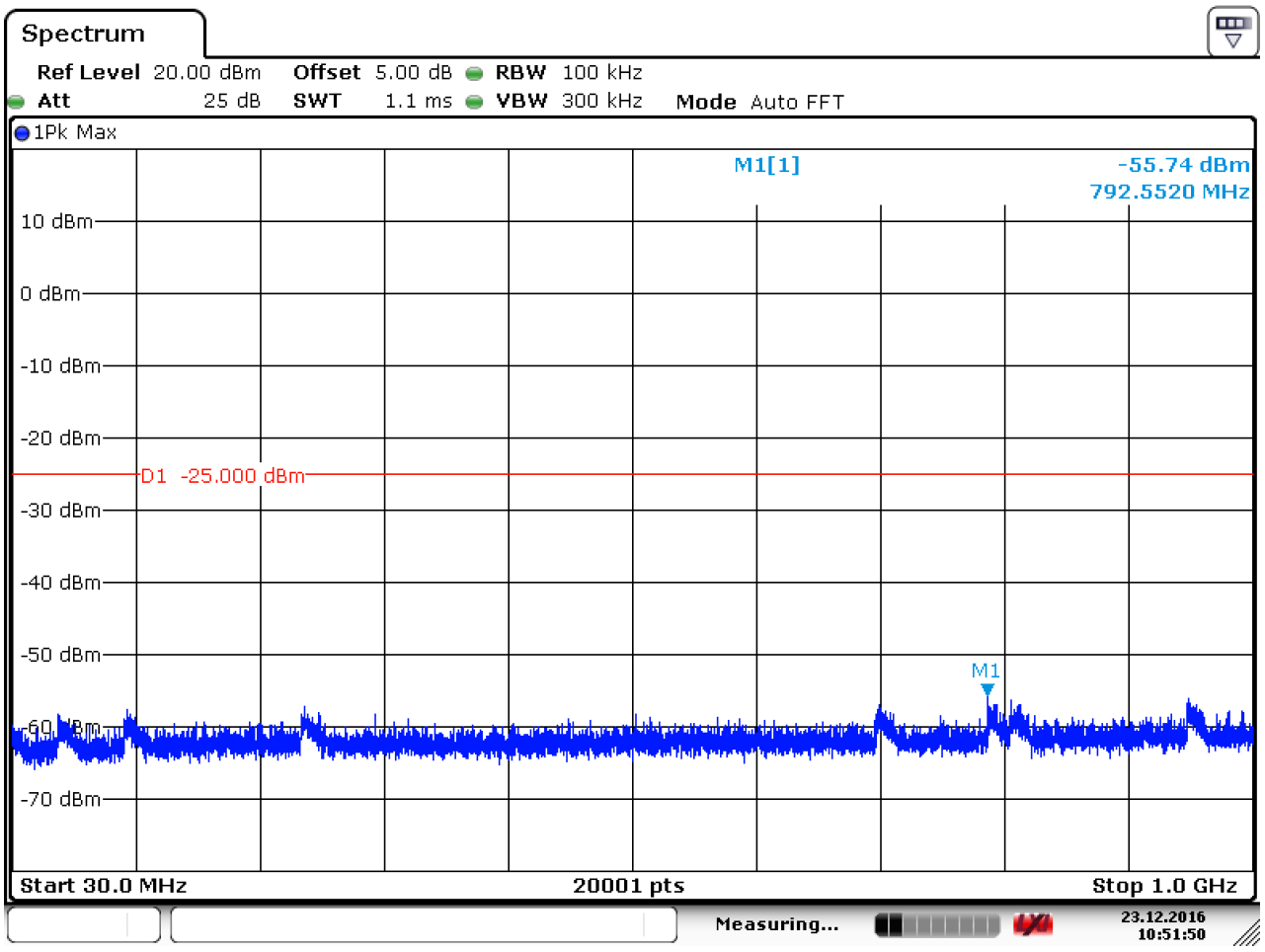
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band7

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

6.1.1.1.1 Test Channel = LCH



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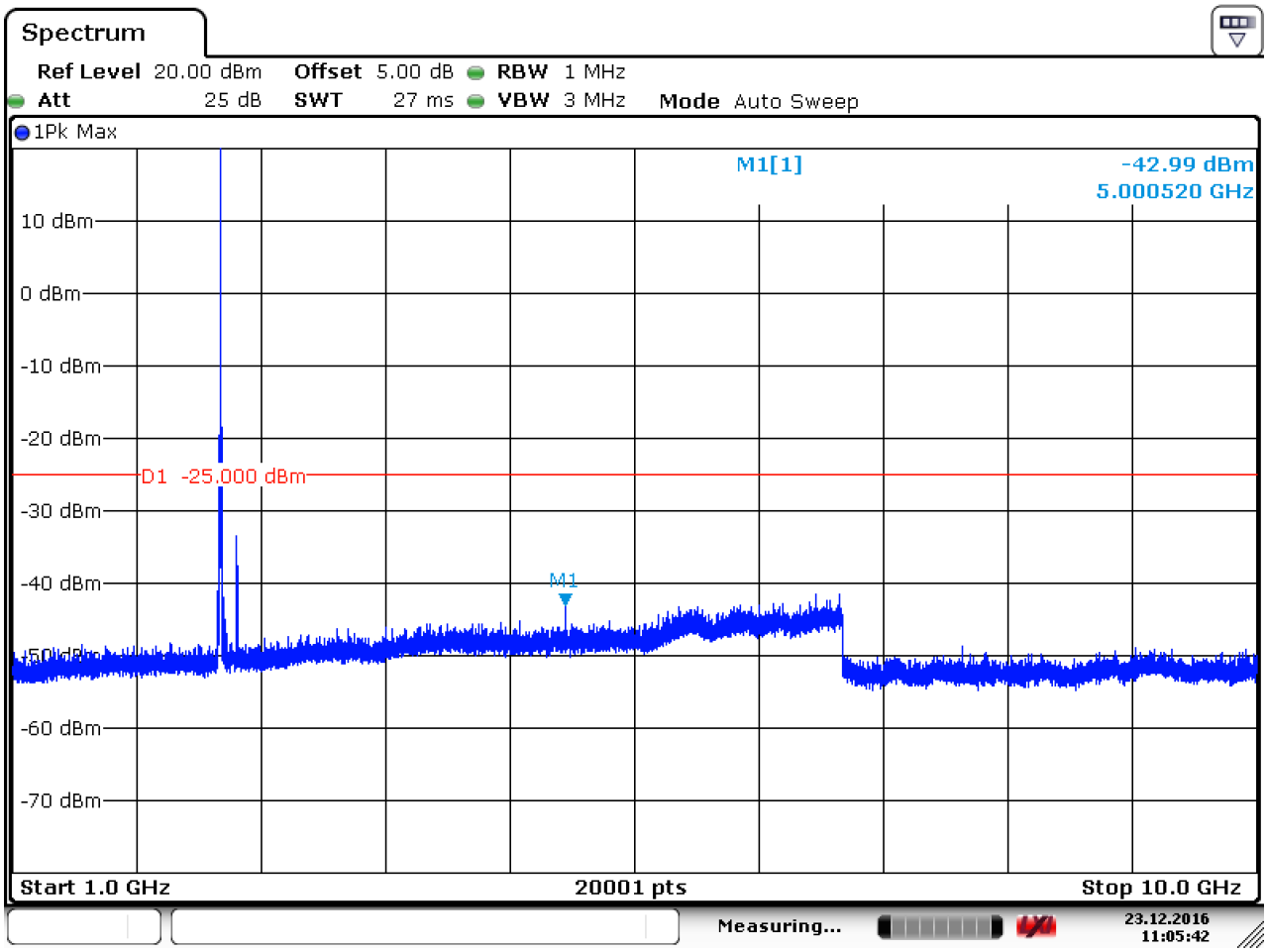

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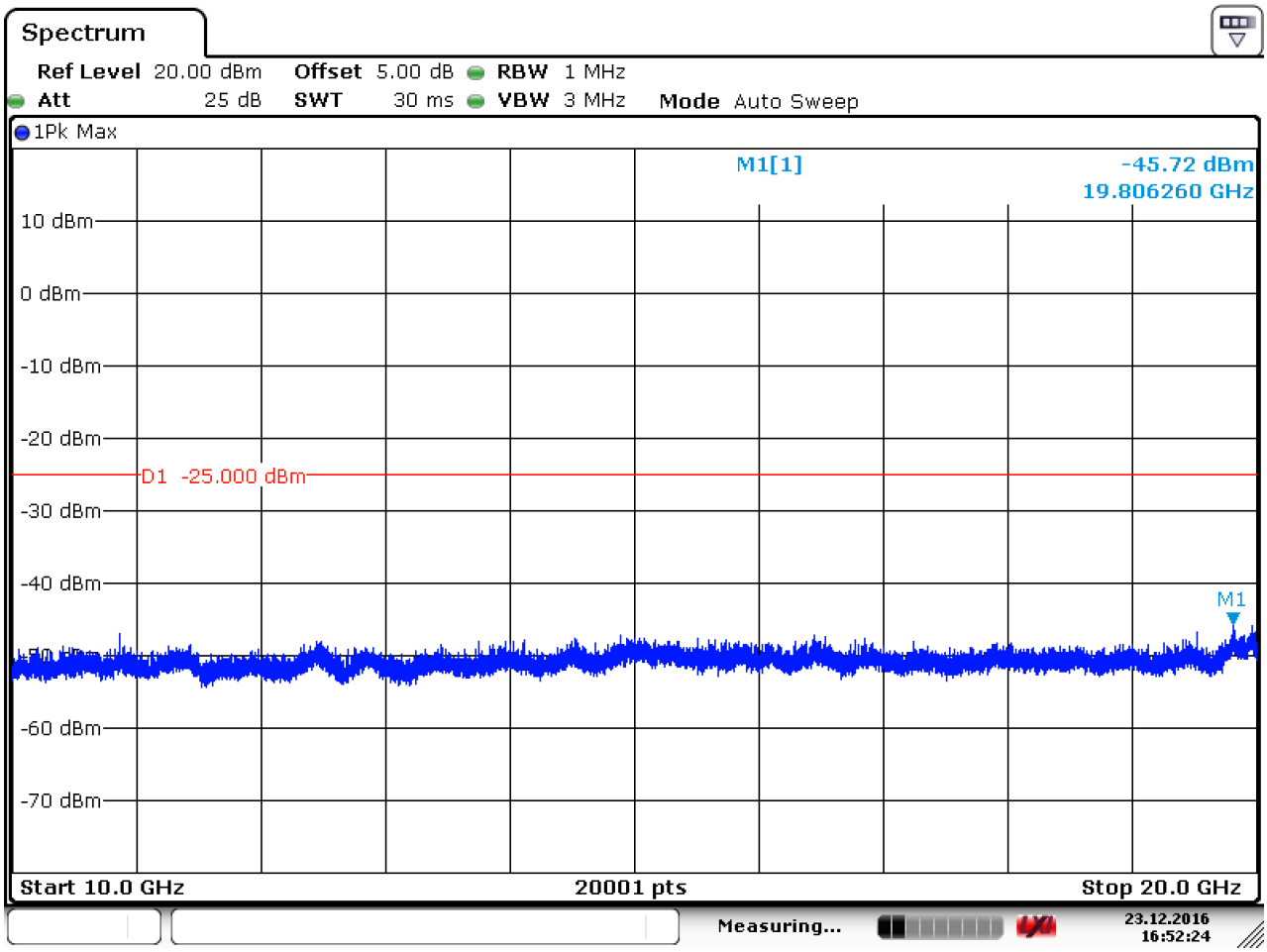

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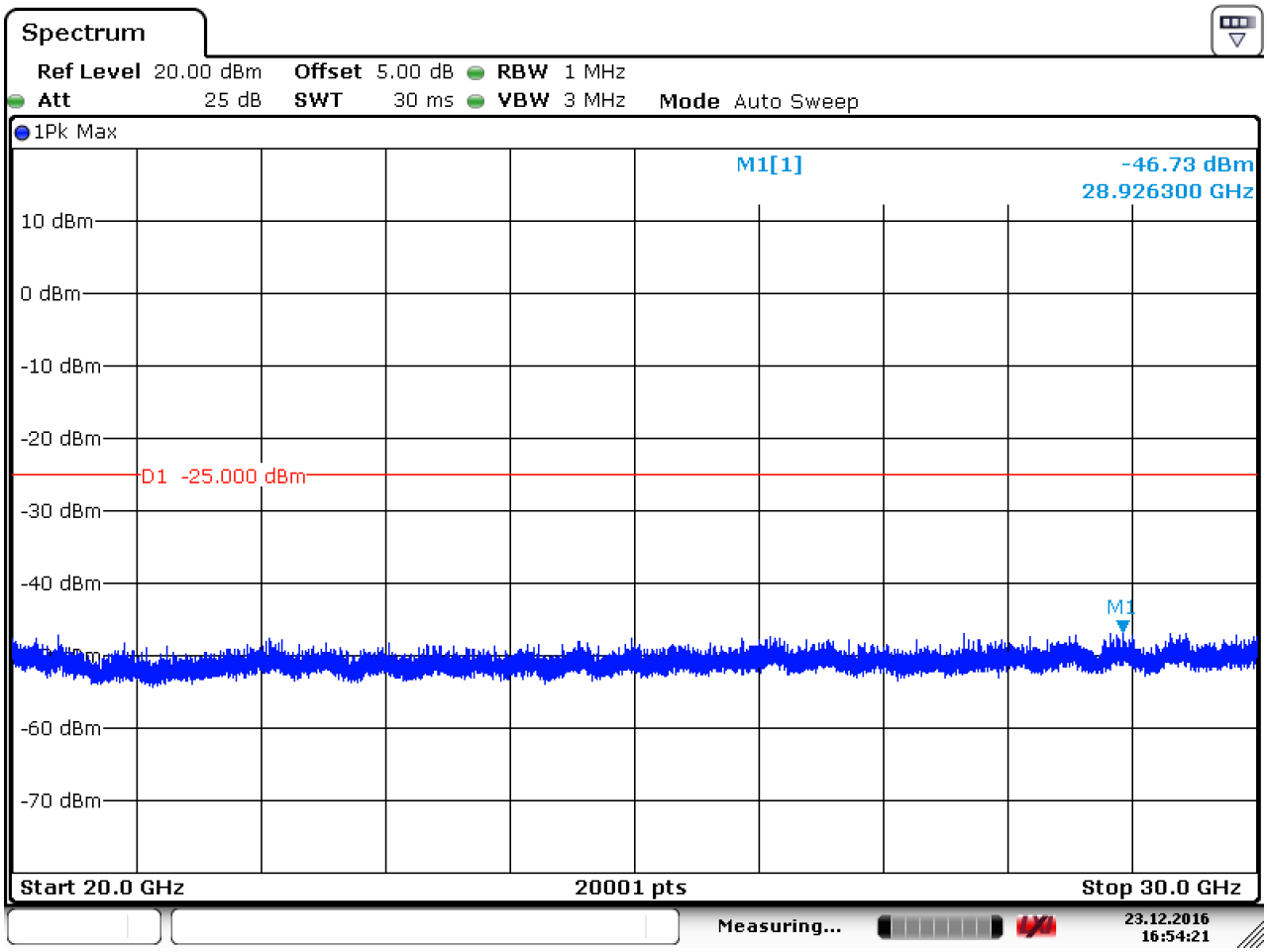

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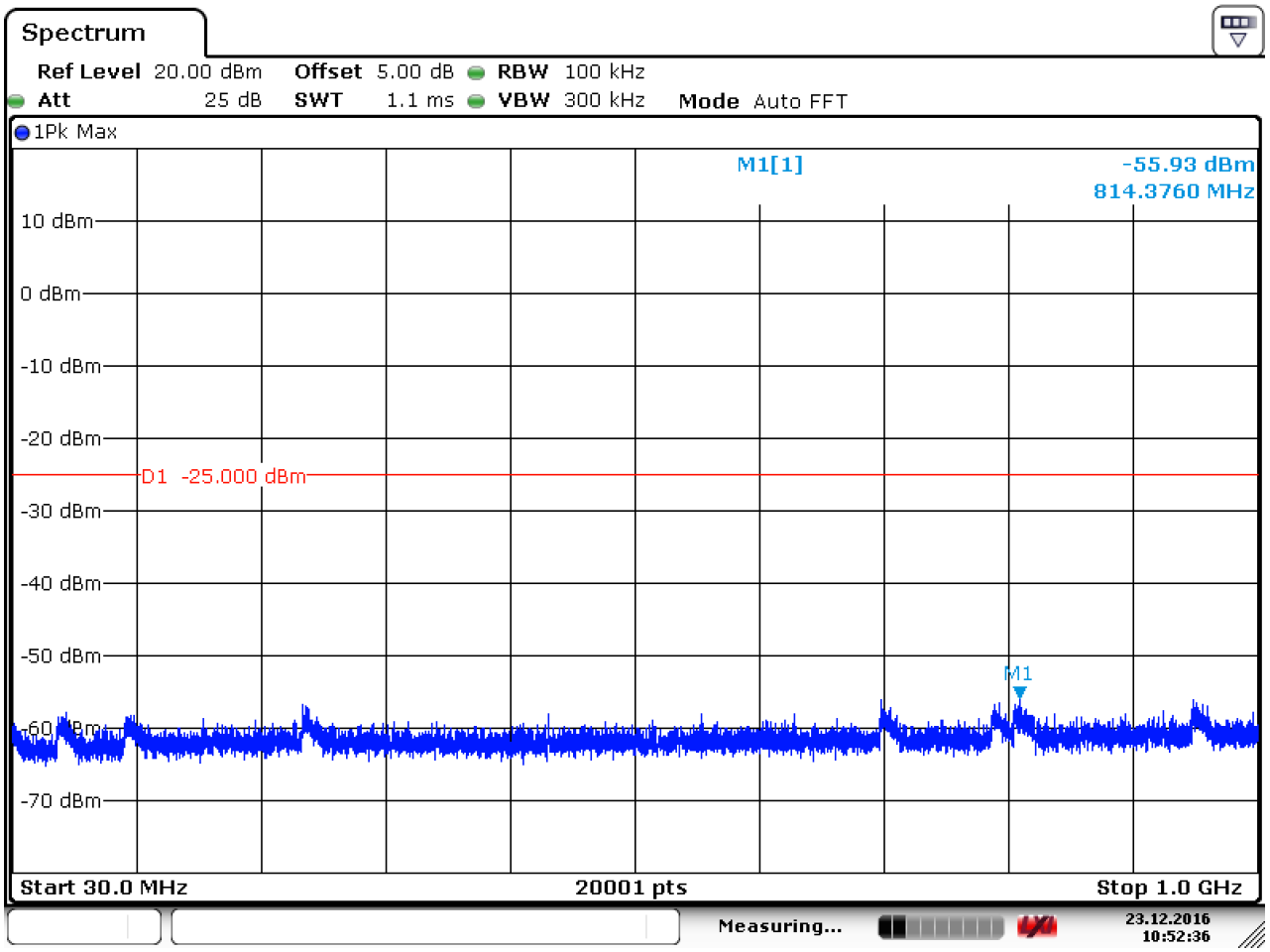
6.1.1.1.2 Test Channel = MCH



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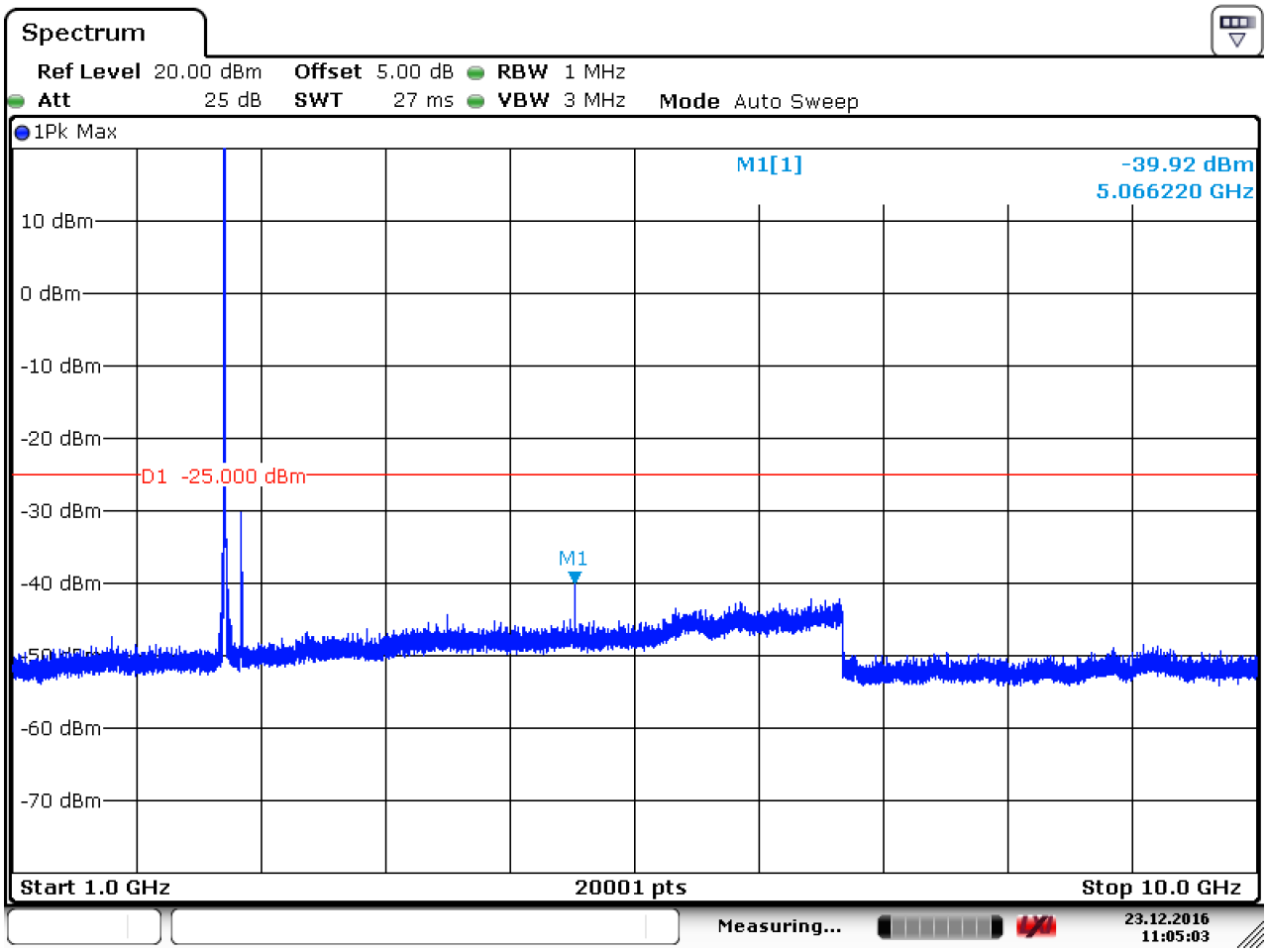

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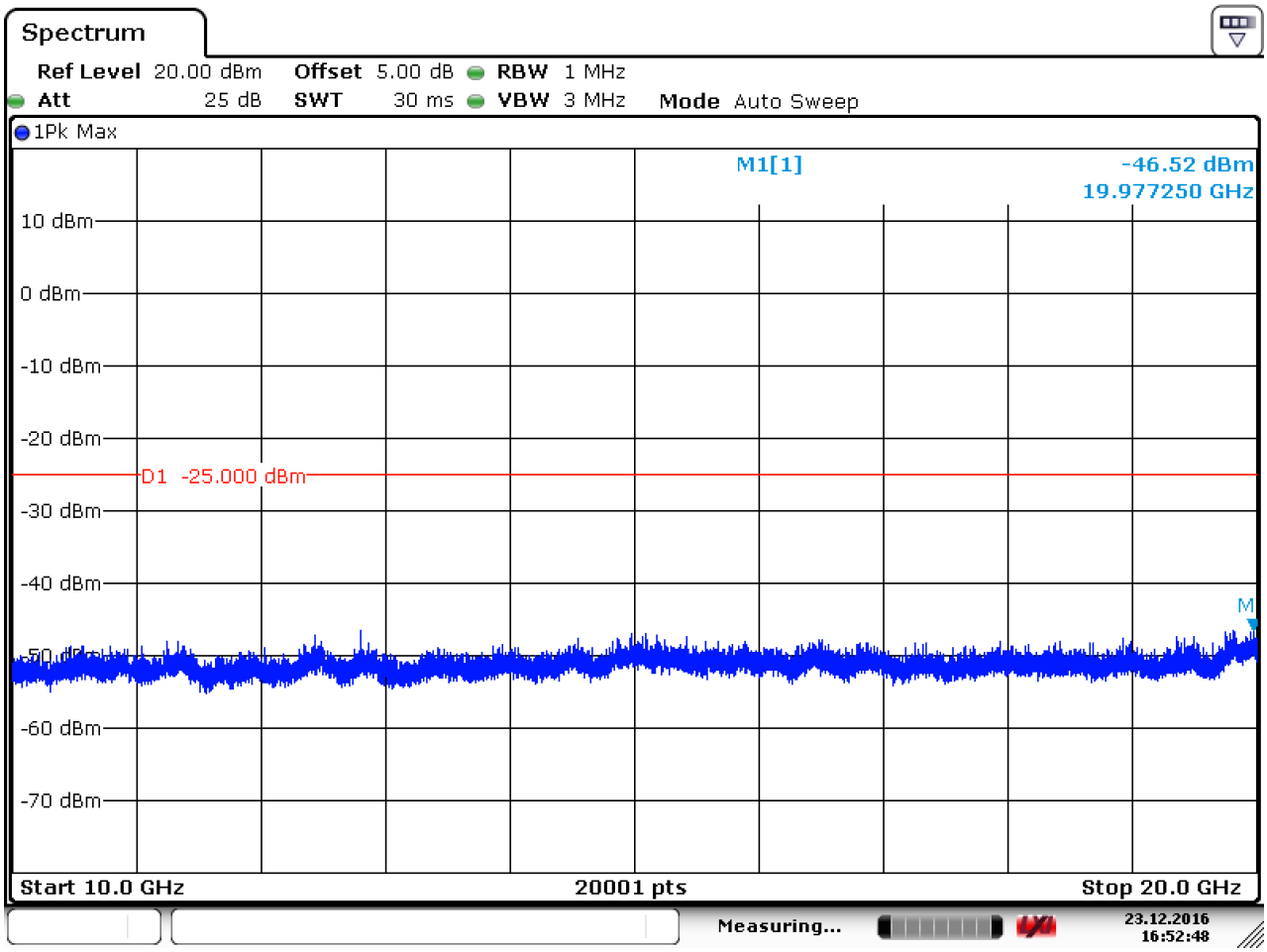

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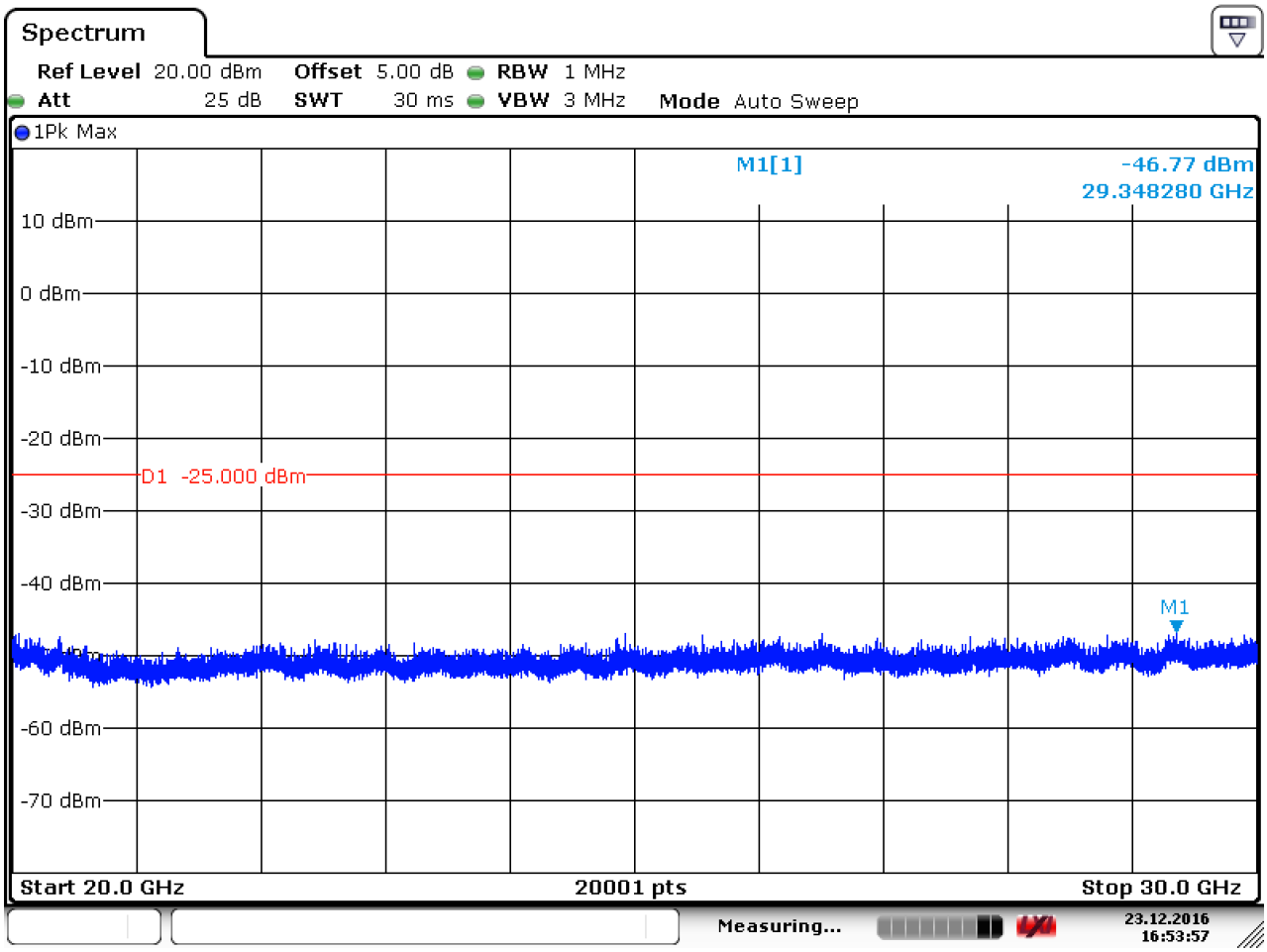

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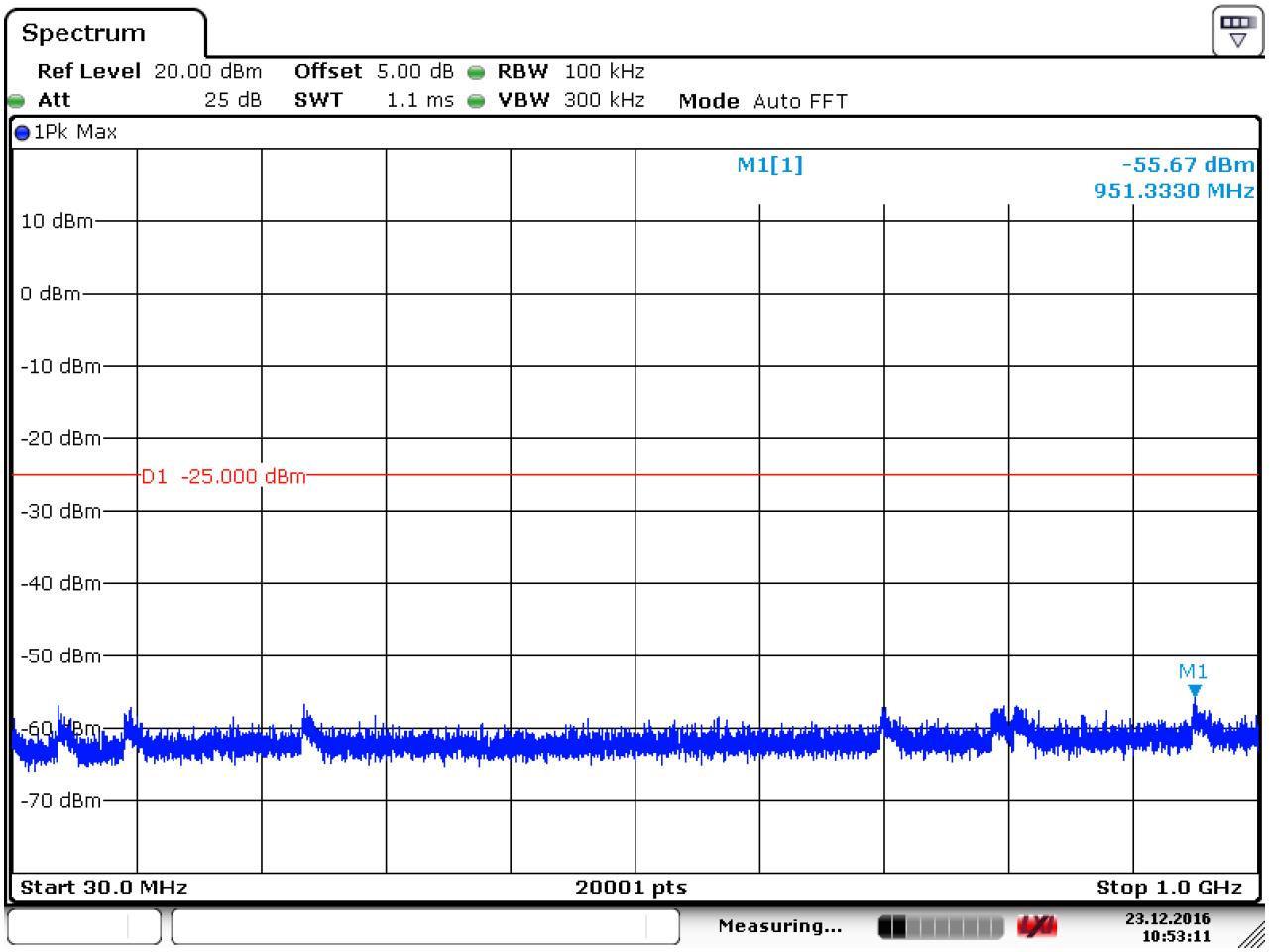
6.1.1.1.3 Test Channel = HCH



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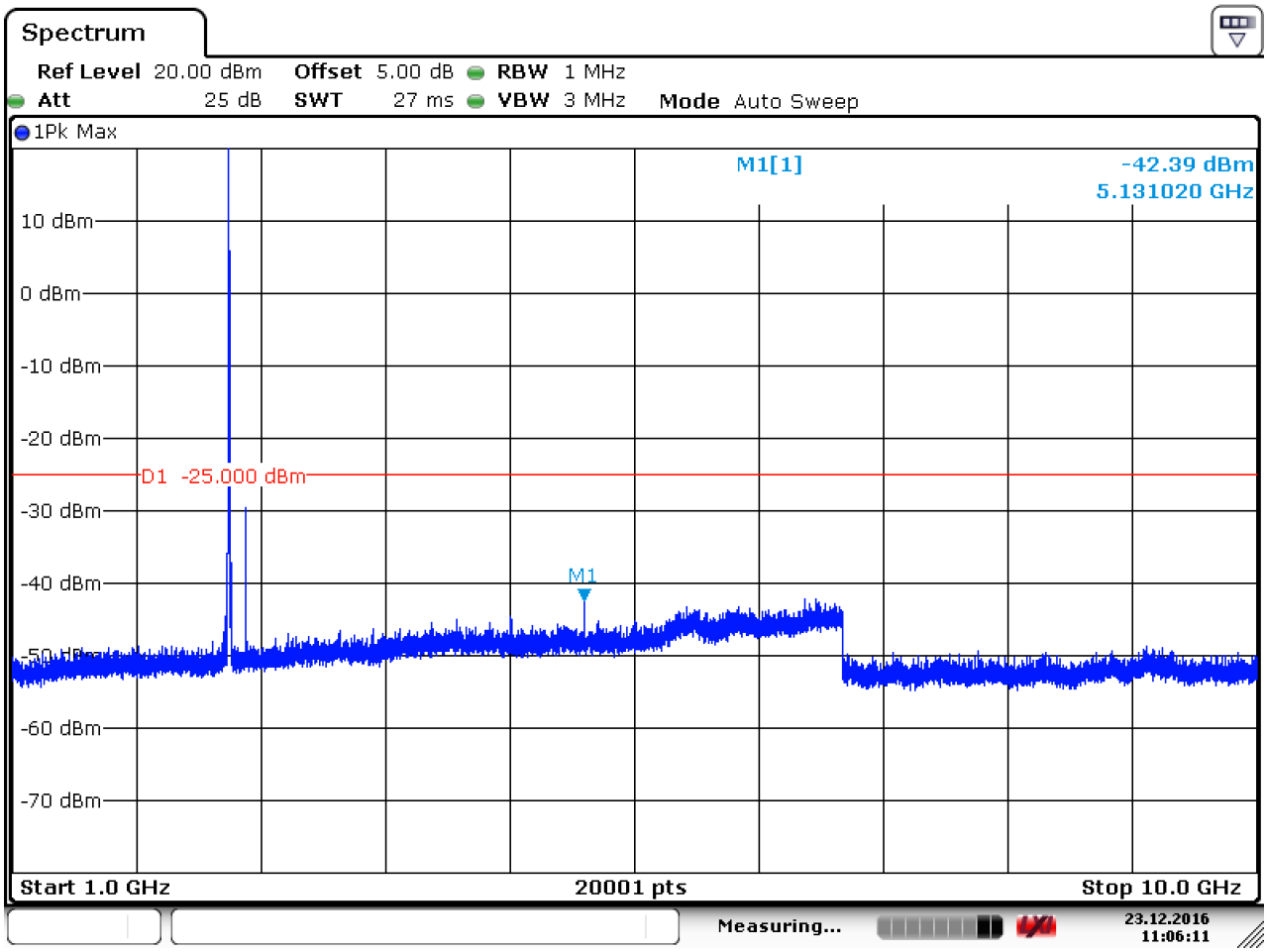

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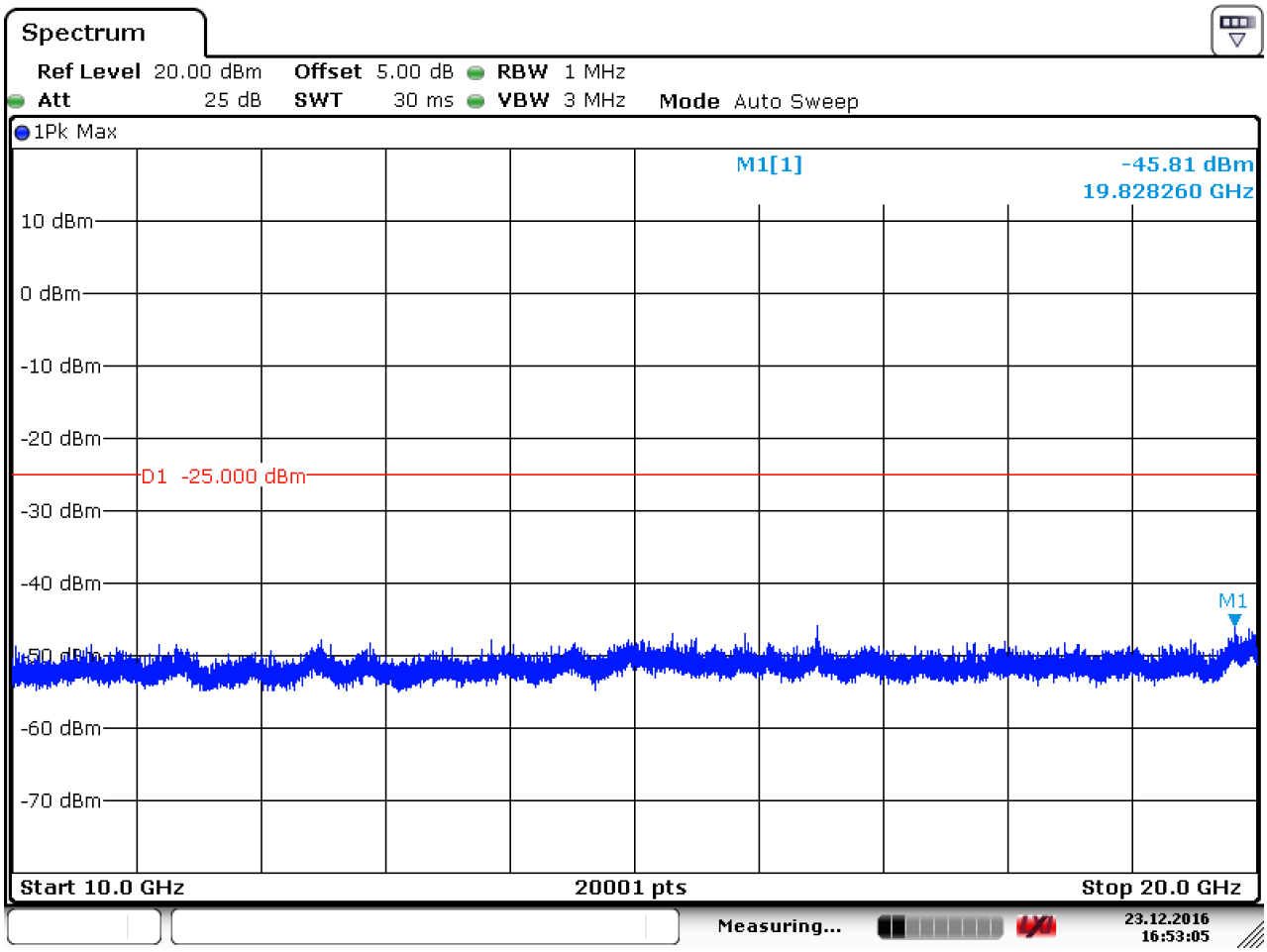

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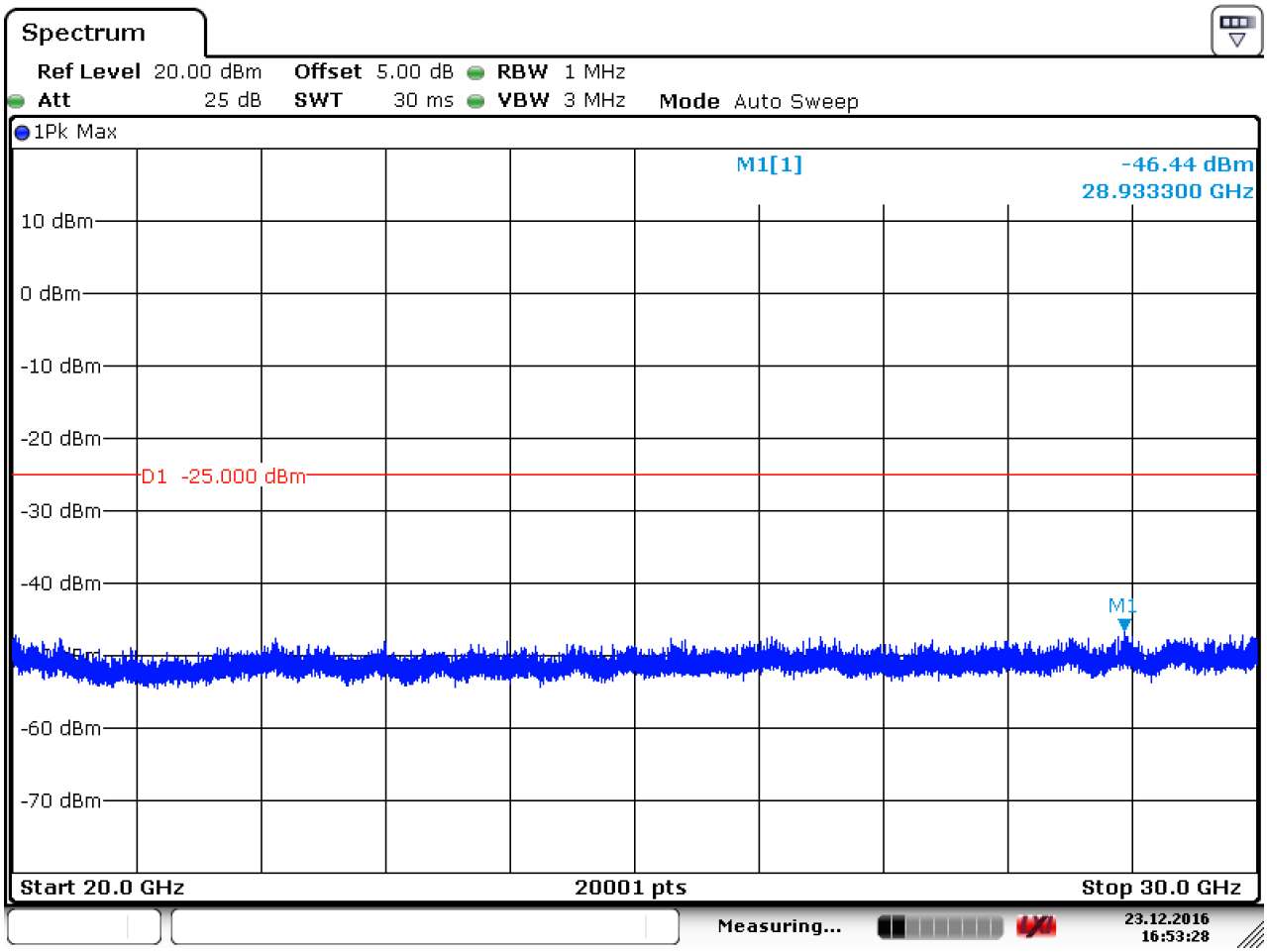

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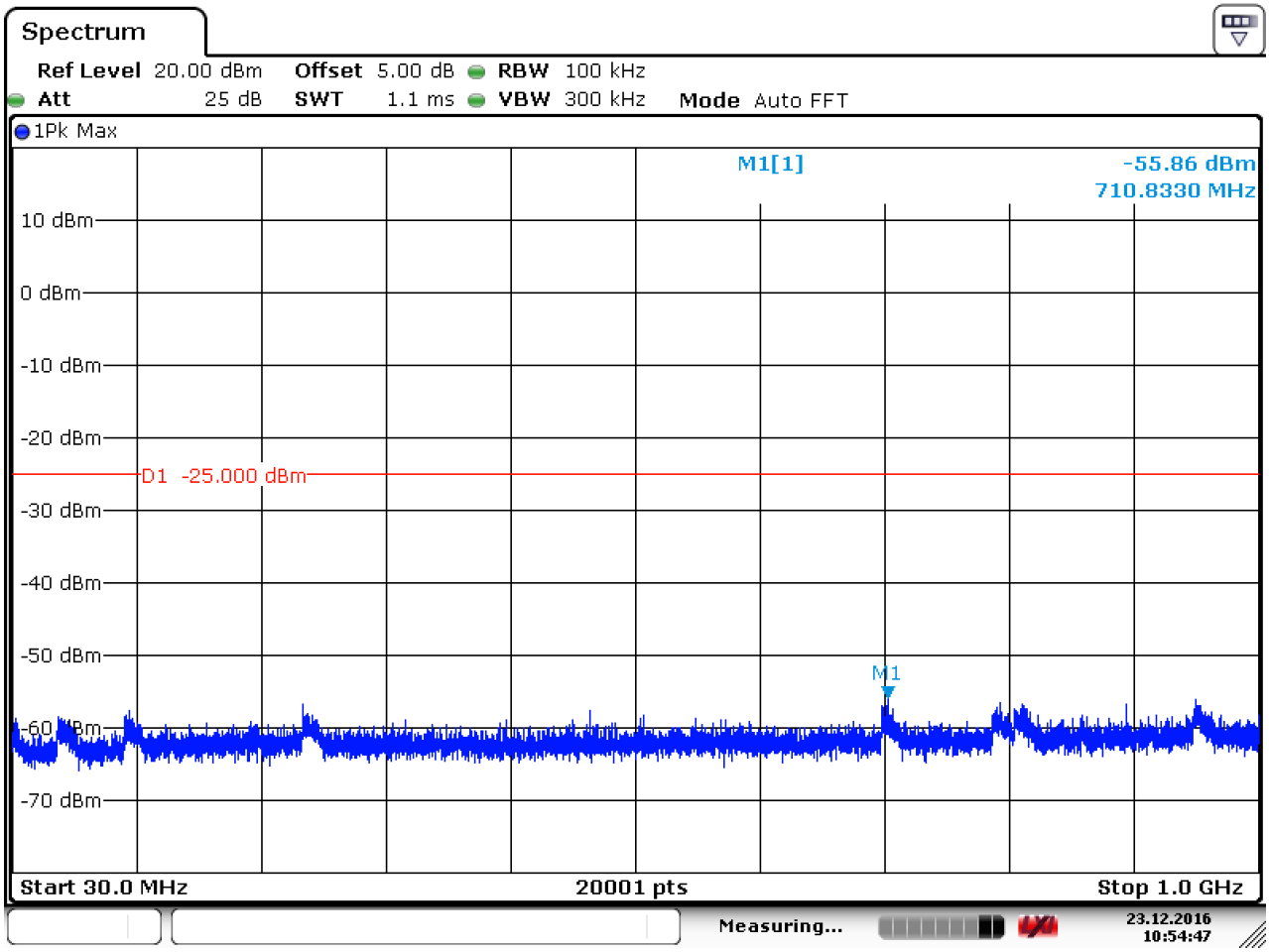
6.1.1.2 Test Mode = LTE / TM1 10MHz RB1#0

6.1.1.2.1 Test Channel = LCH



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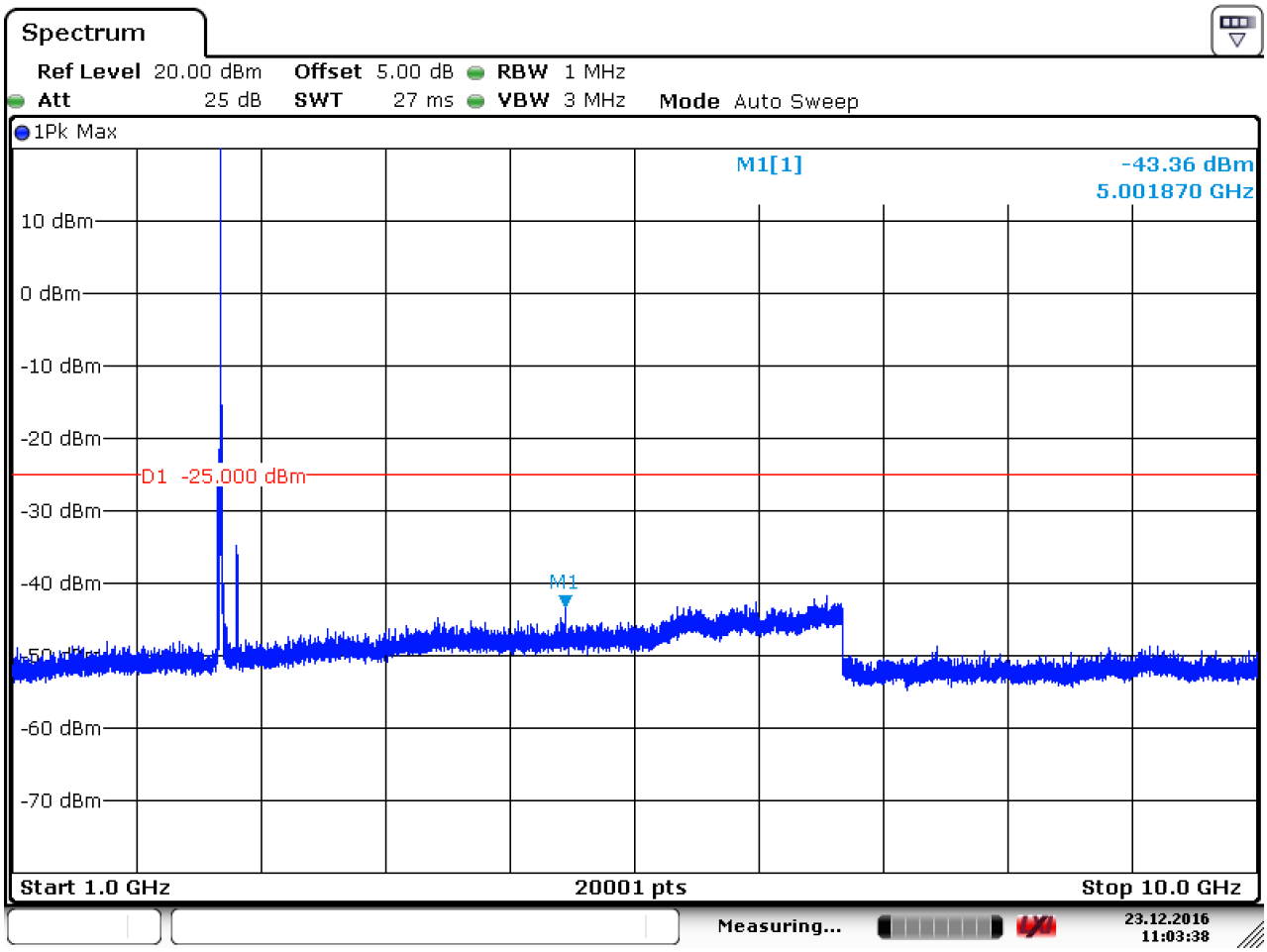

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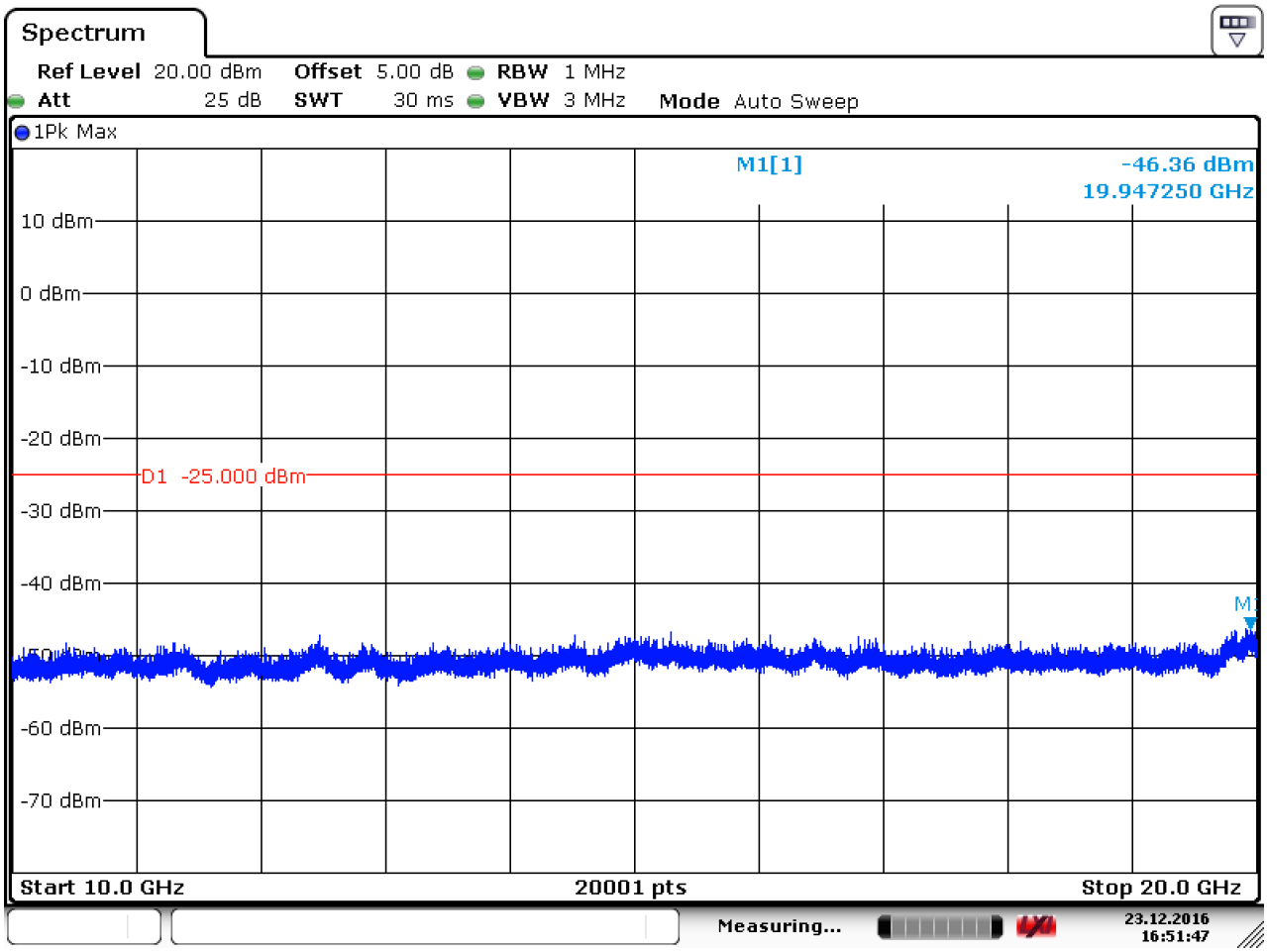

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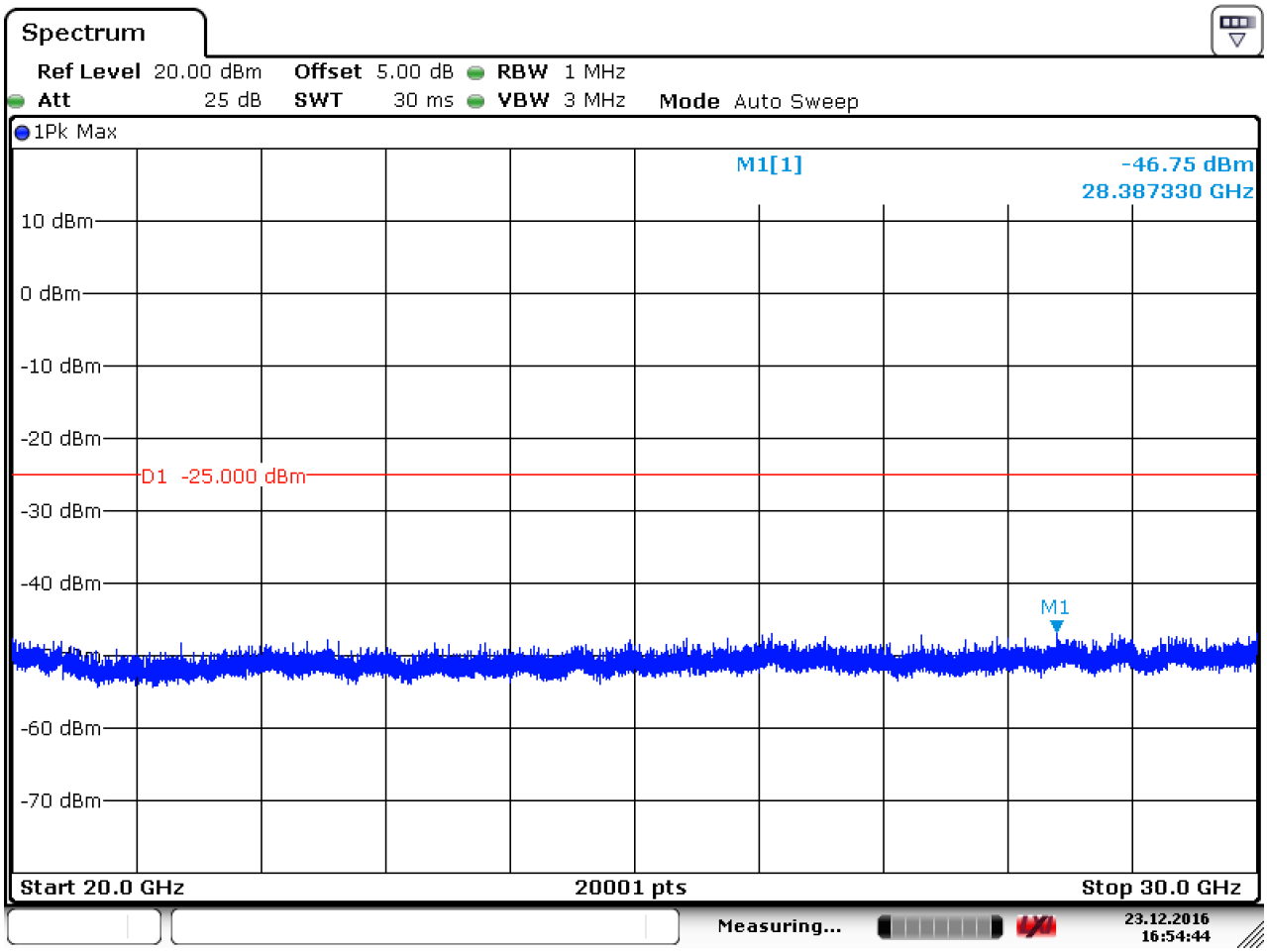

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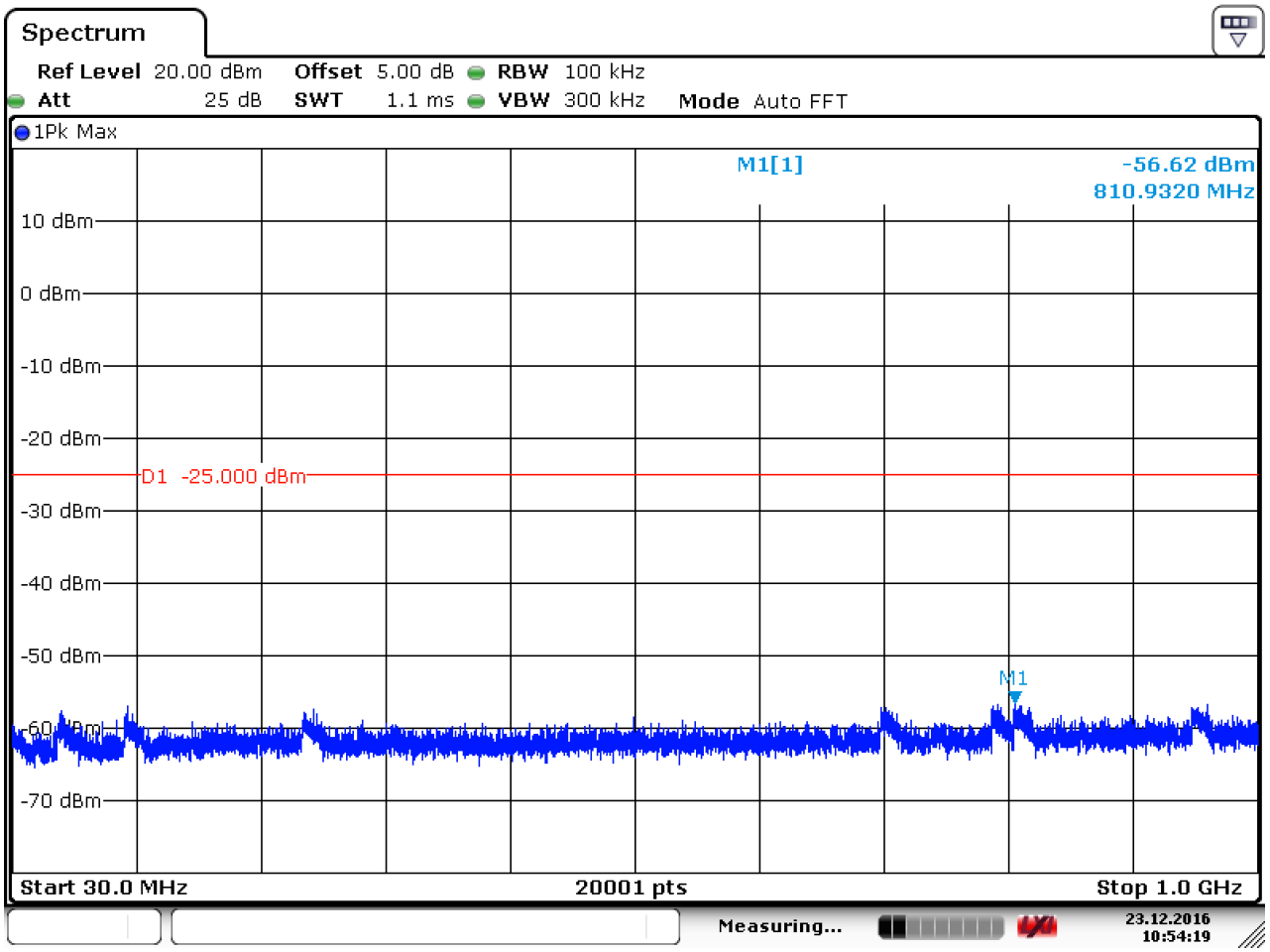
6.1.1.2.2 Test Channel = MCH



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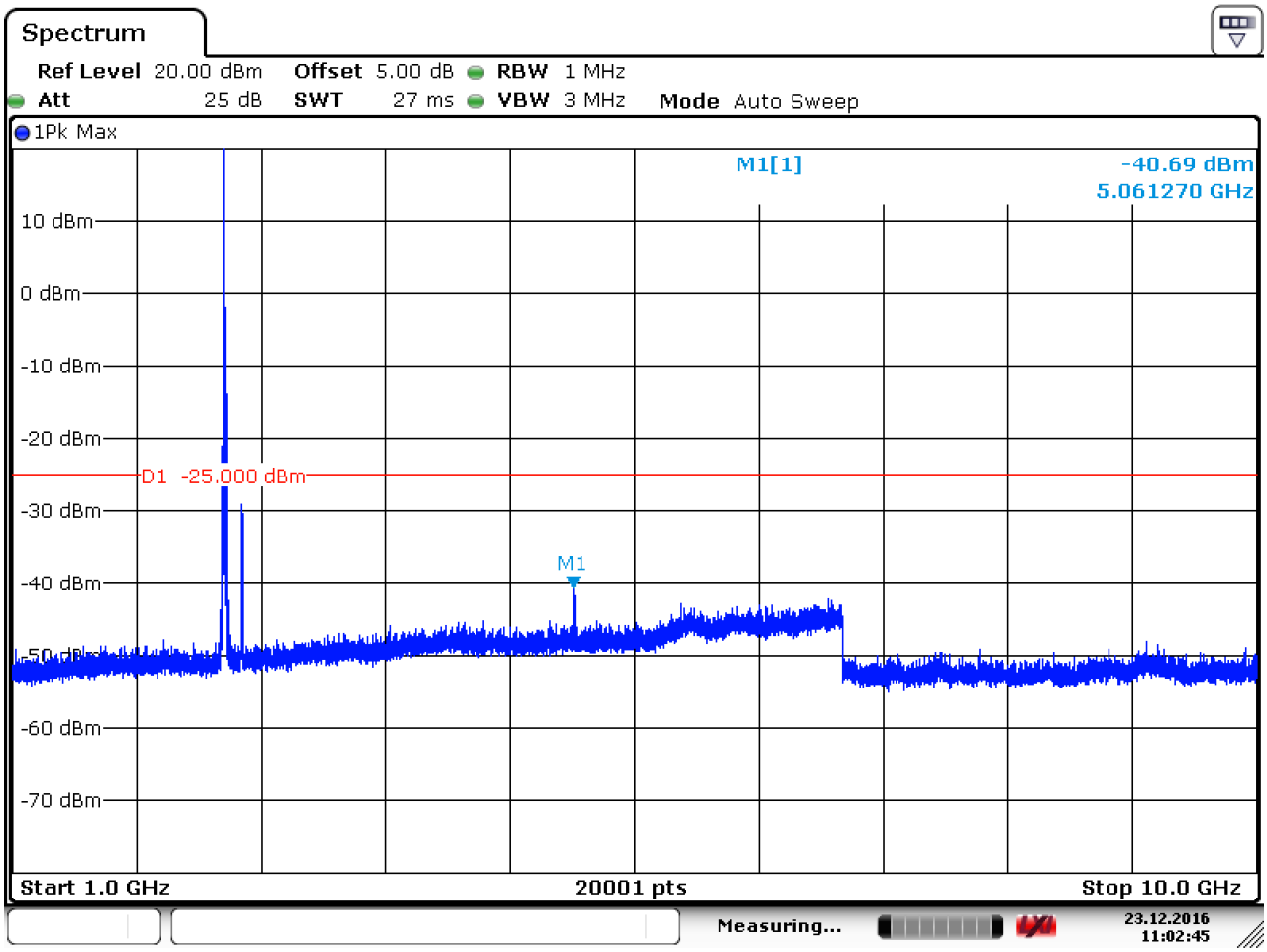

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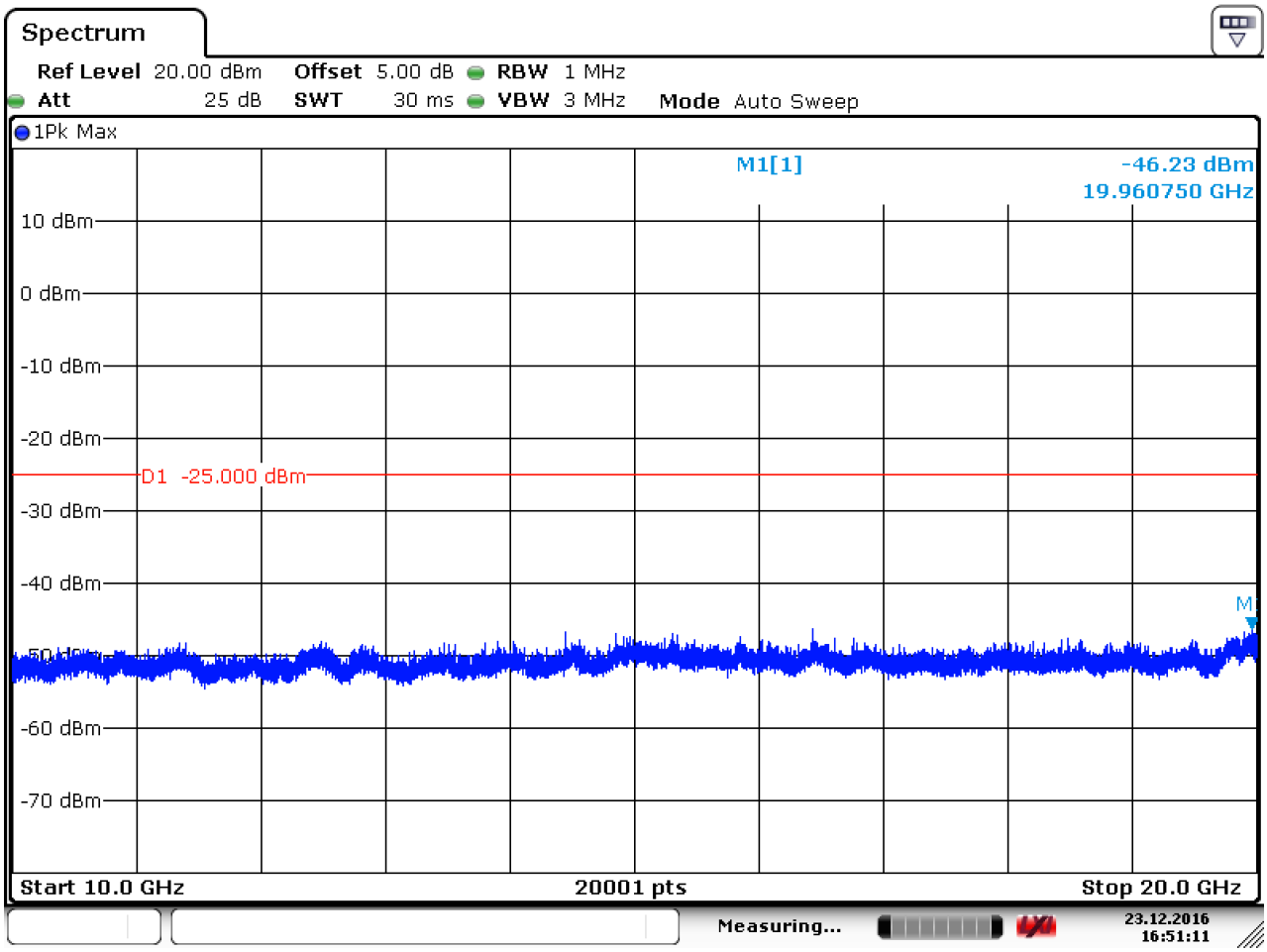

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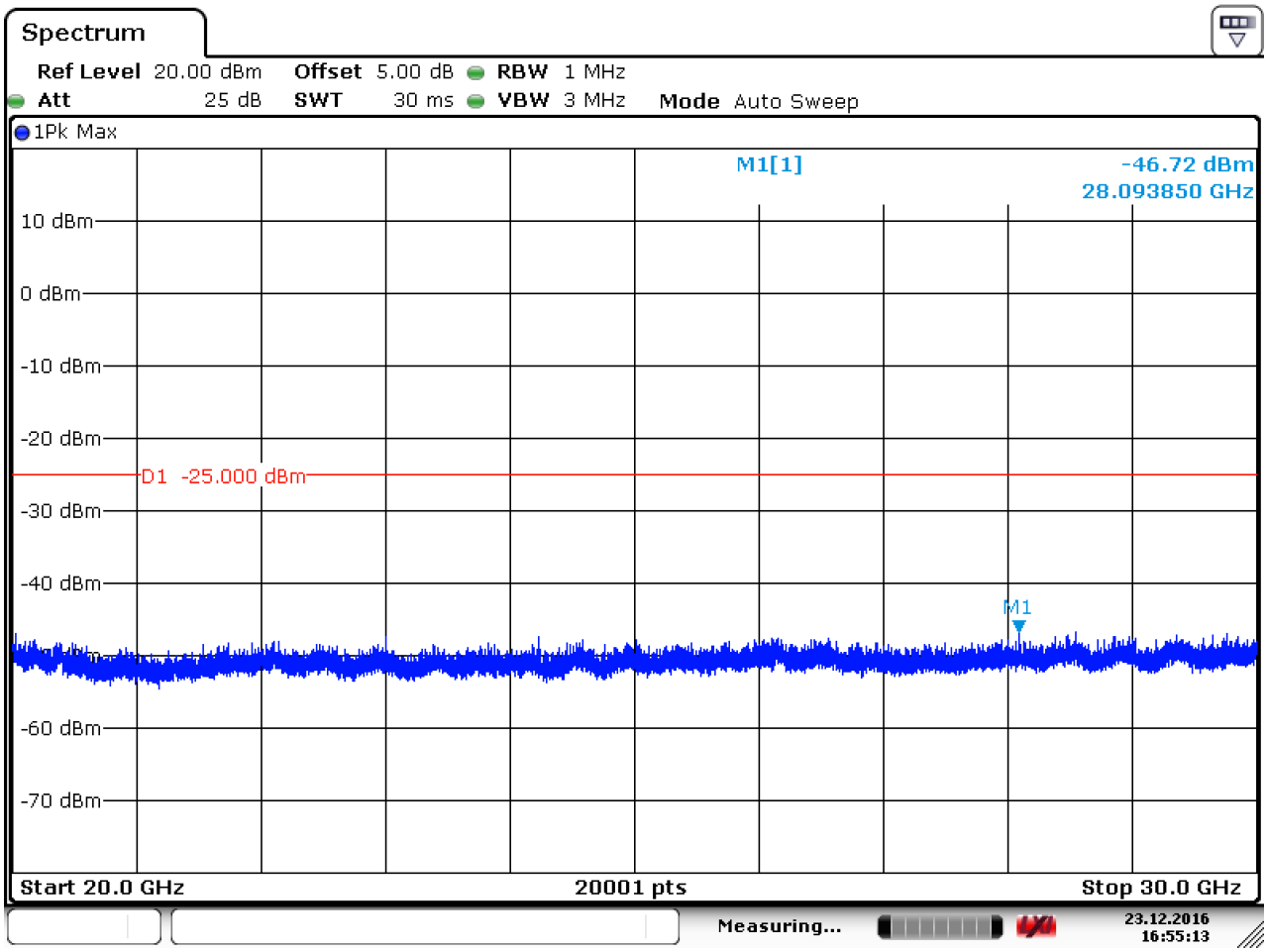

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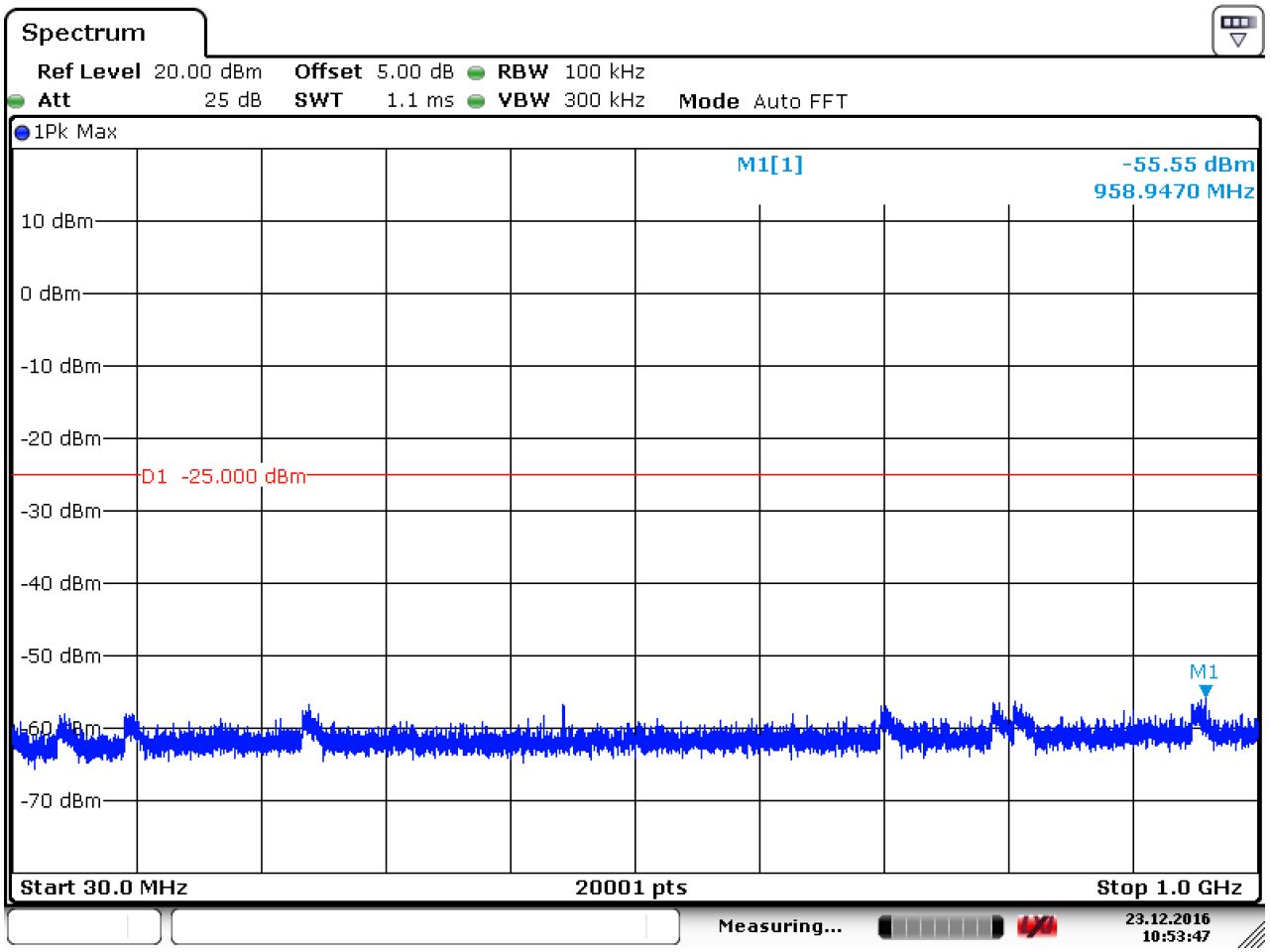
6.1.1.2.3 Test Channel = HCH



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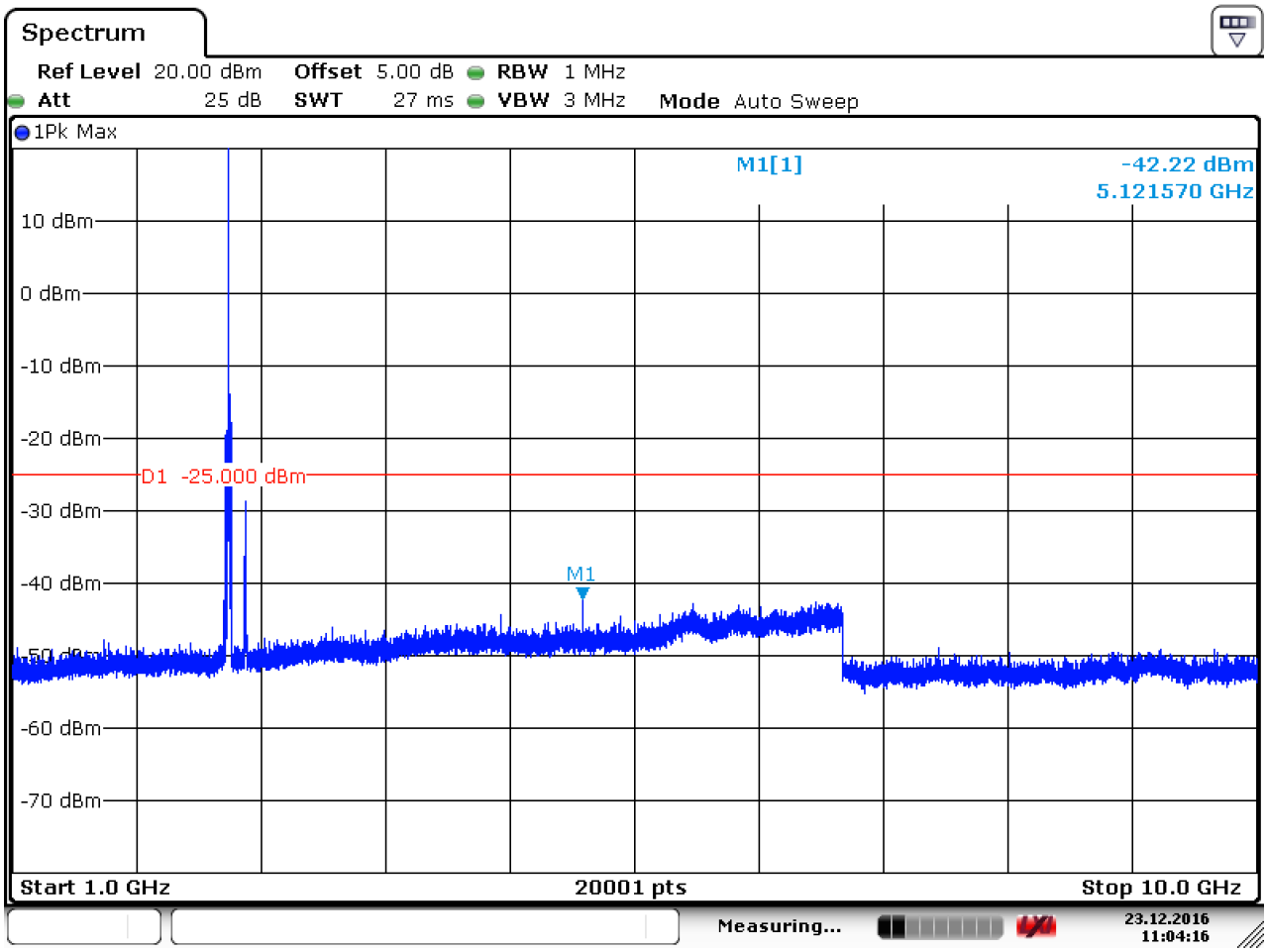

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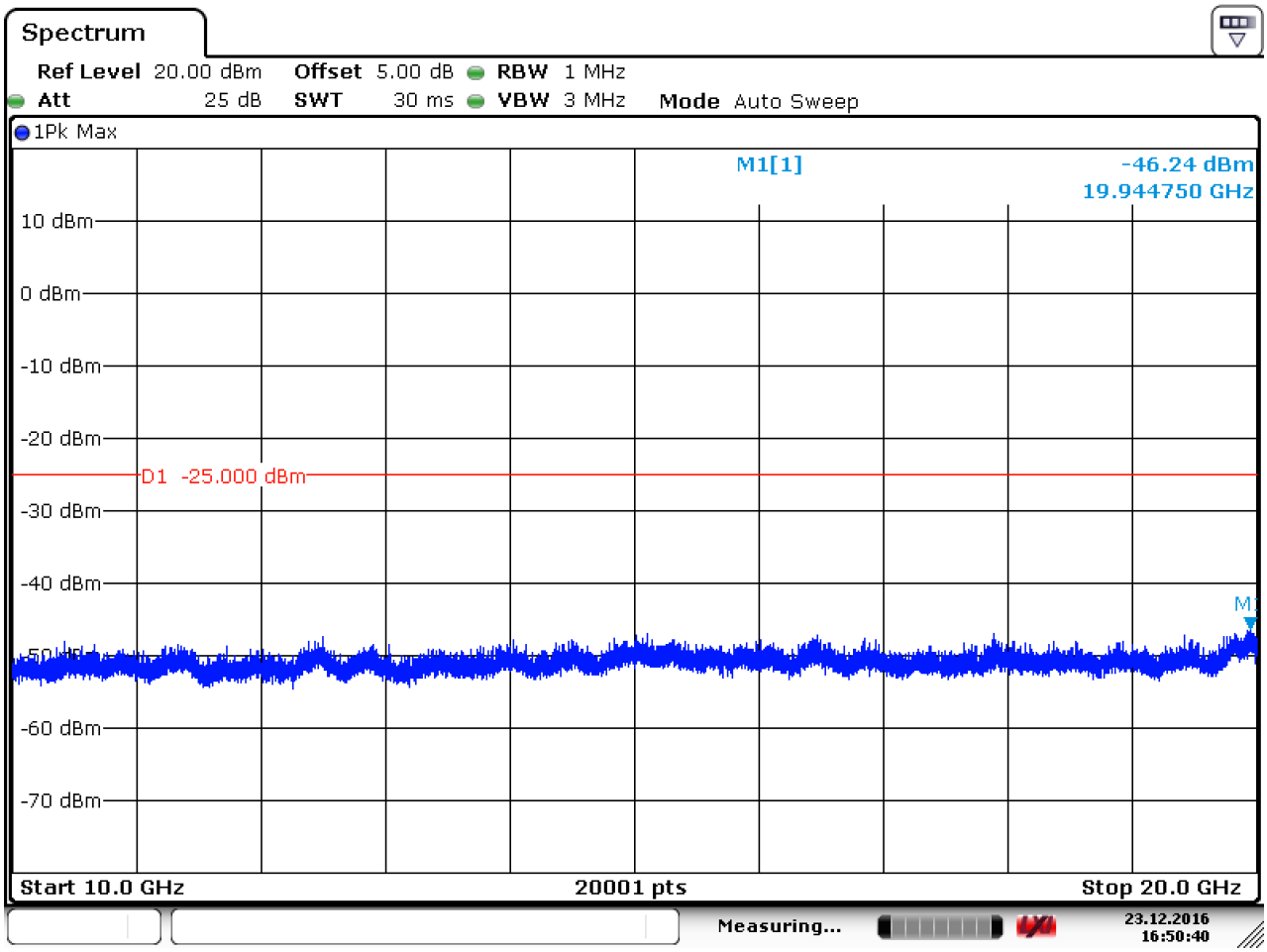

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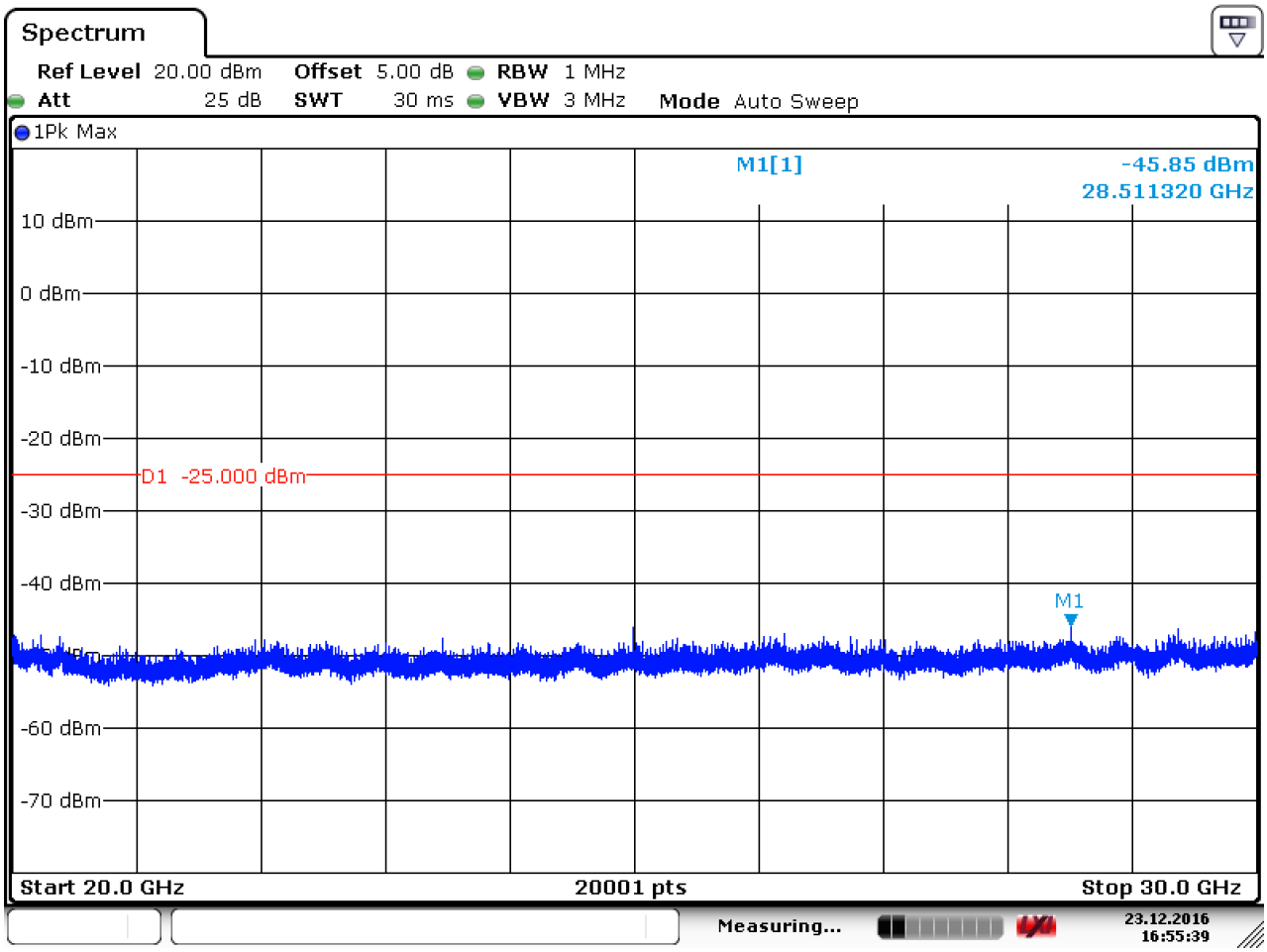

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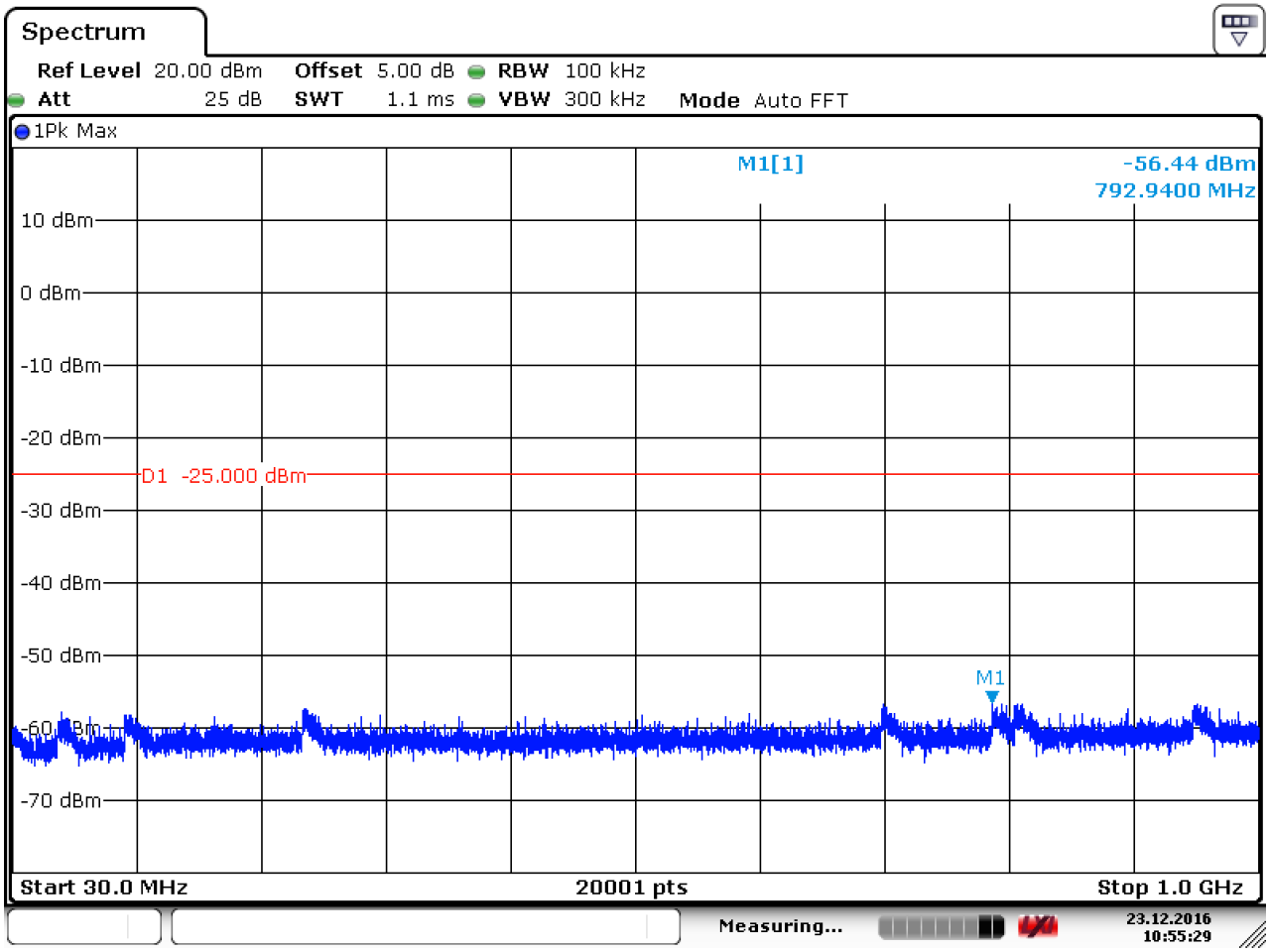
6.1.1.3 Test Mode = LTE / TM1 15MHz RB1#0

6.1.1.3.1 Test Channel = LCH



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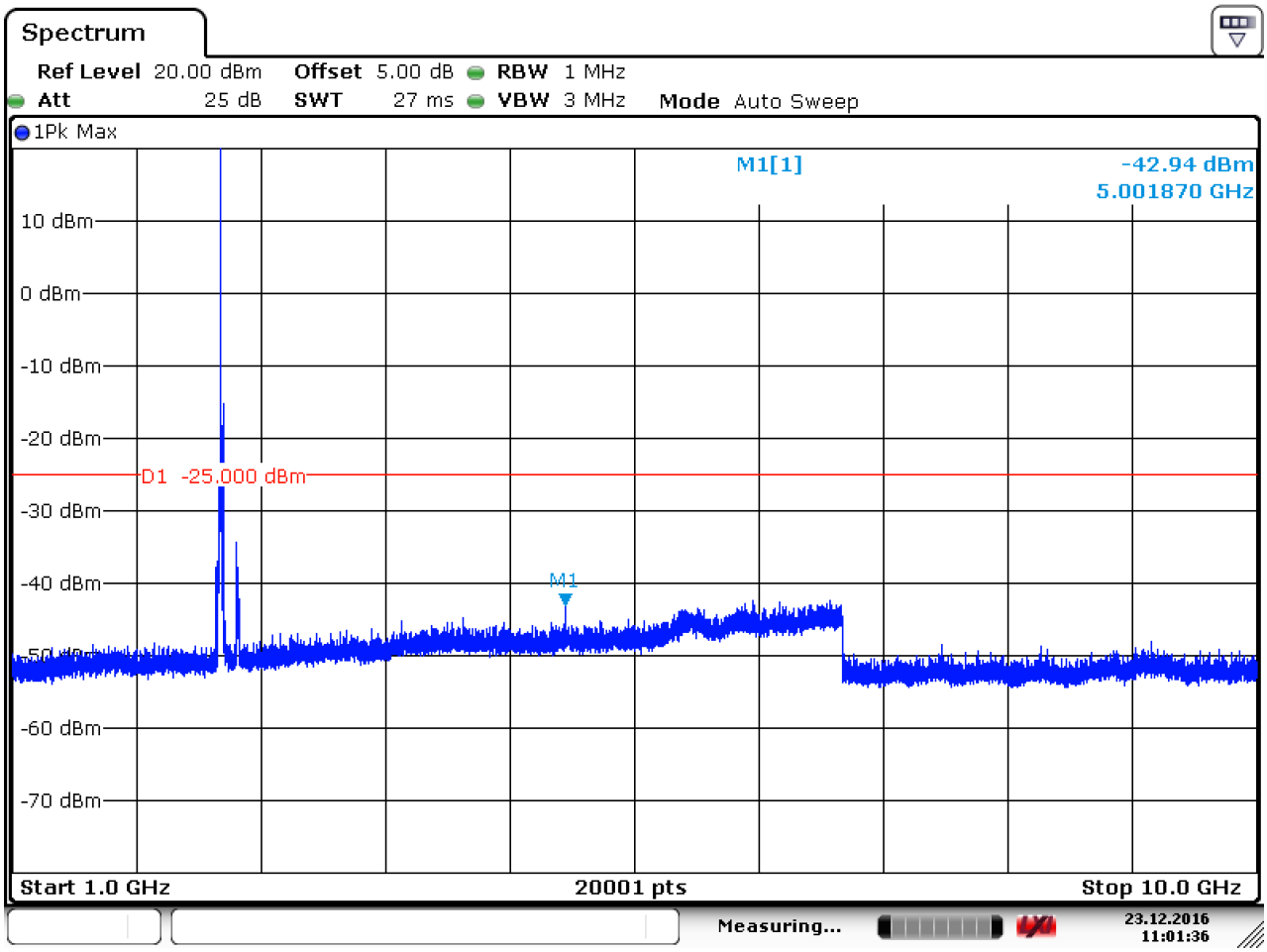

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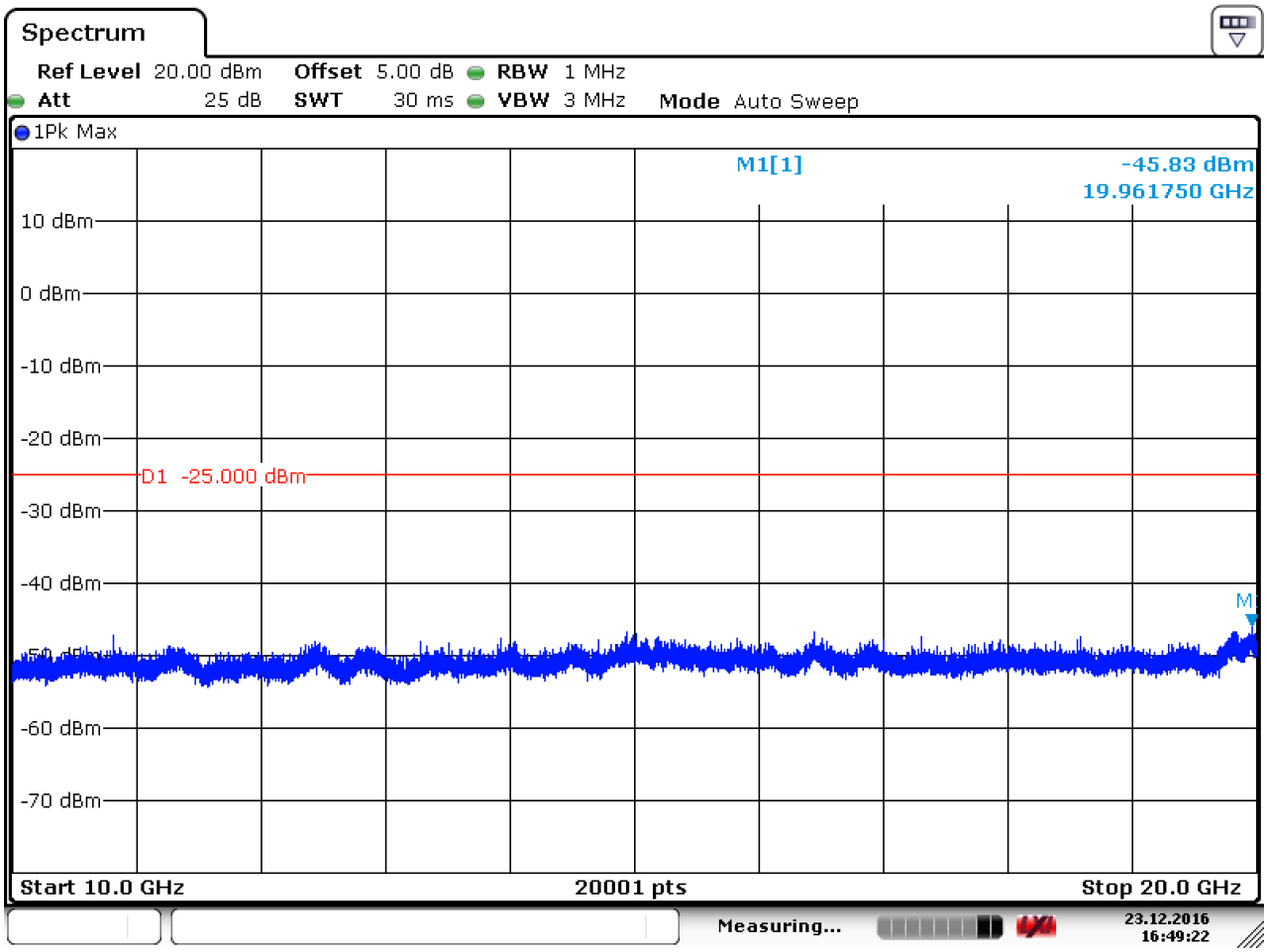

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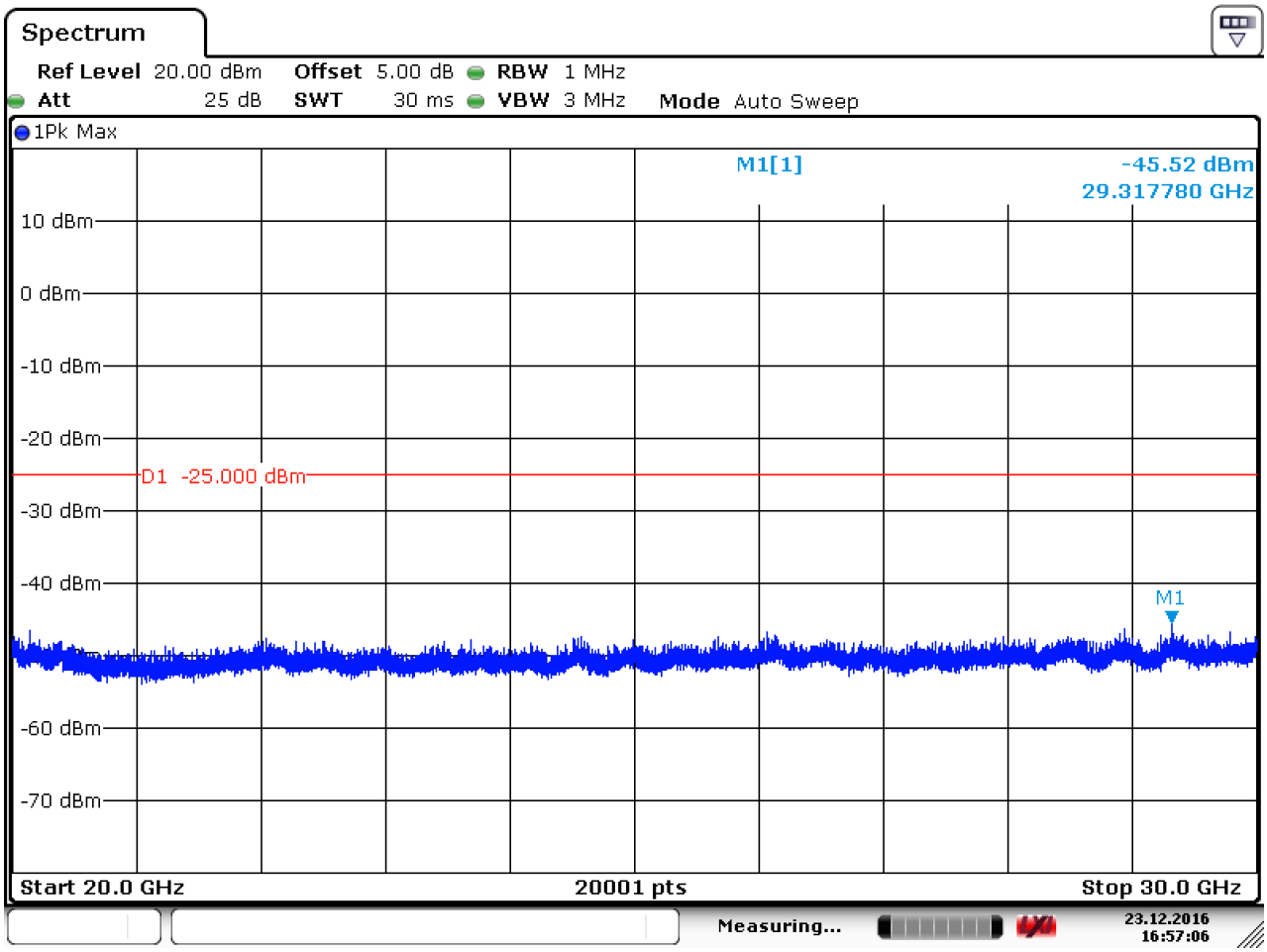

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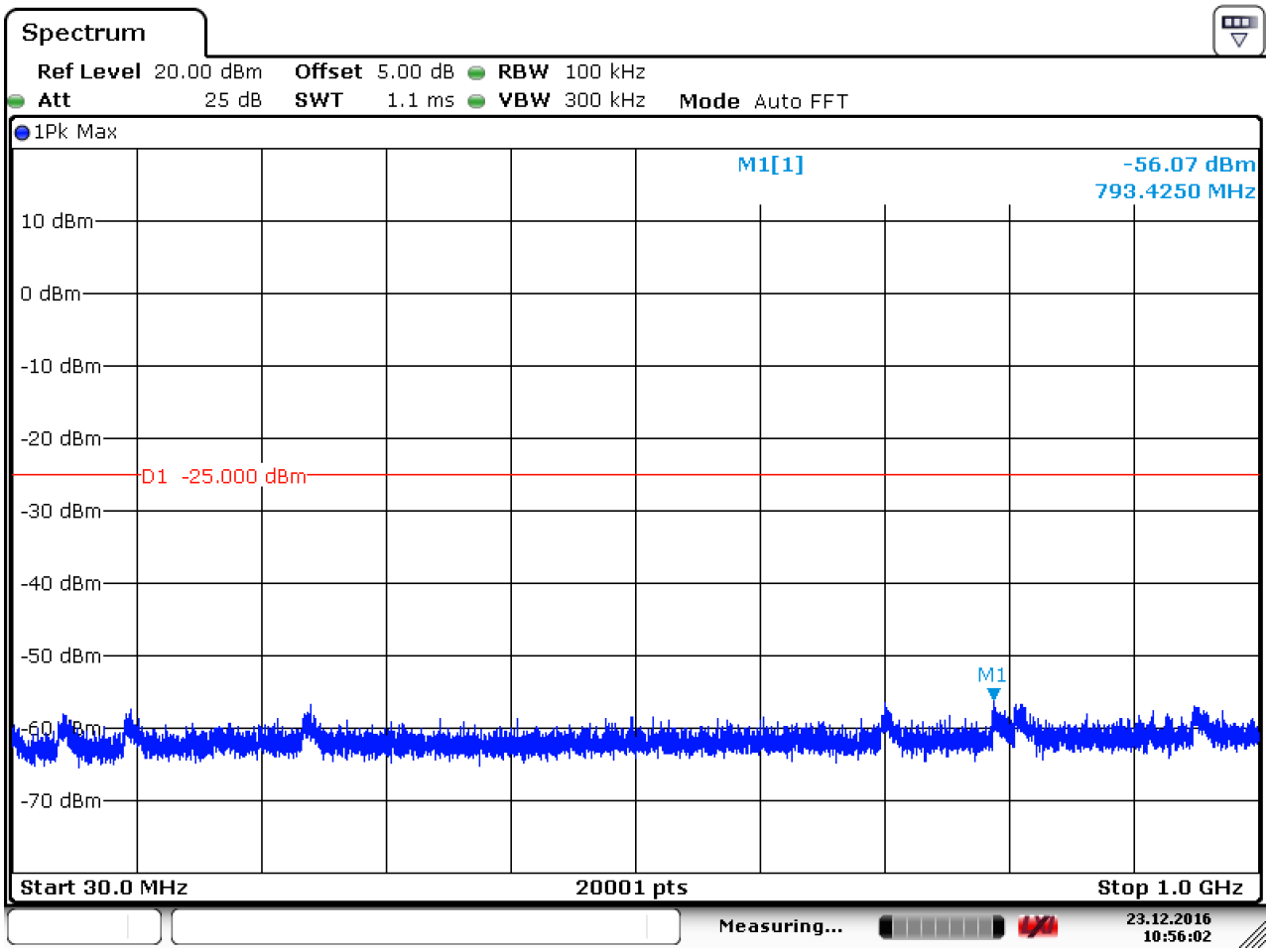
6.1.1.3.2 Test Channel = MCH



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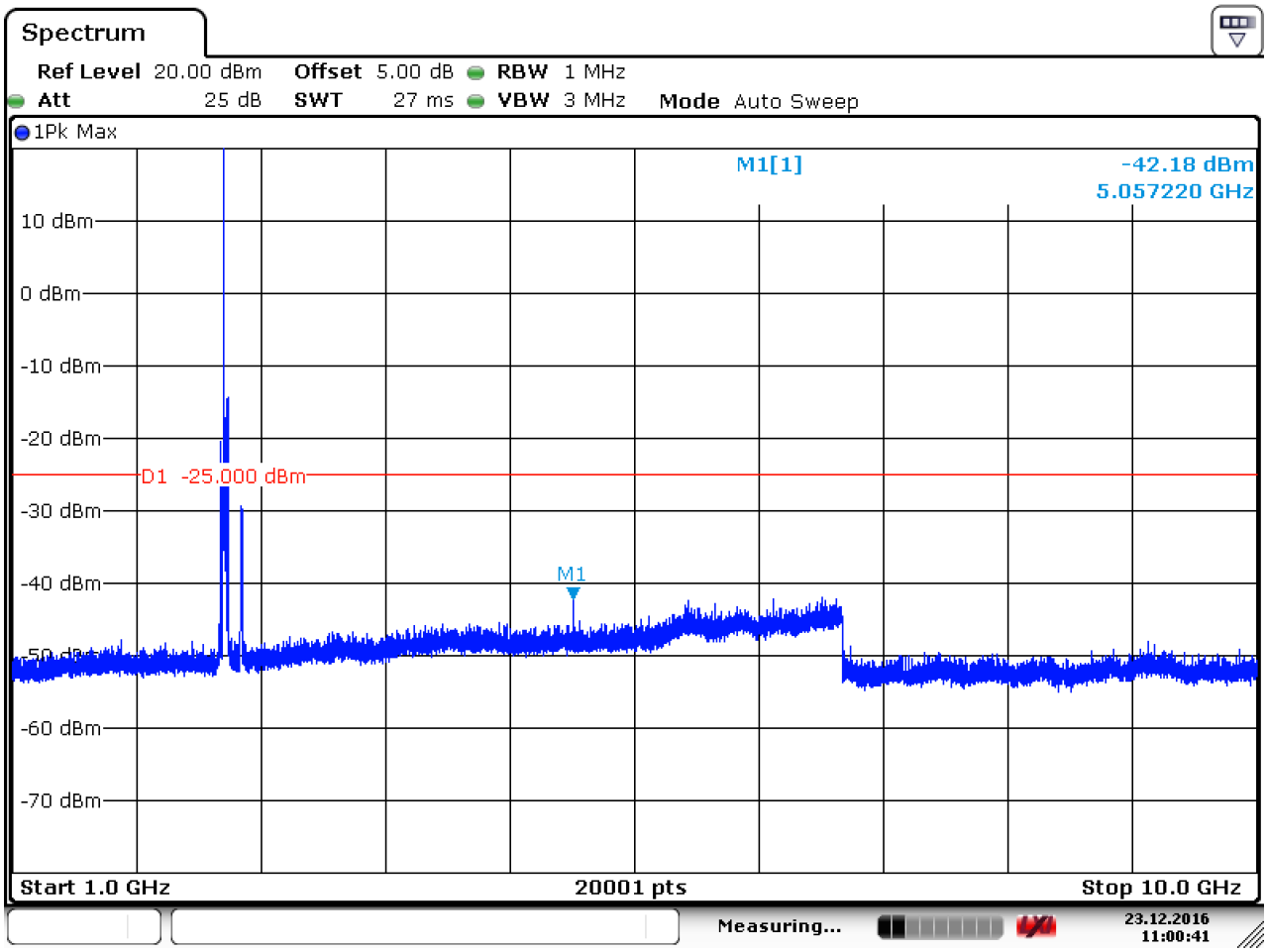

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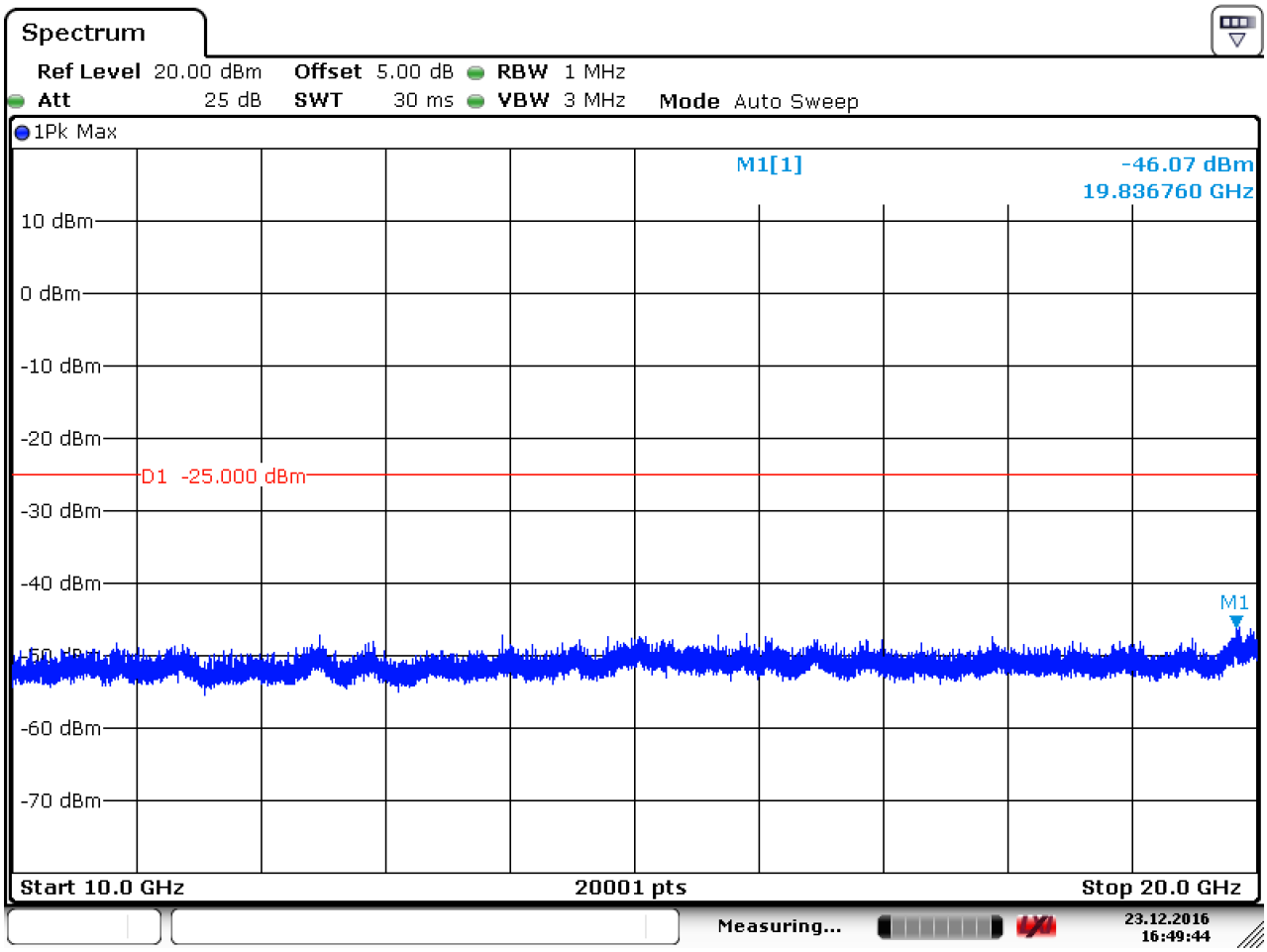

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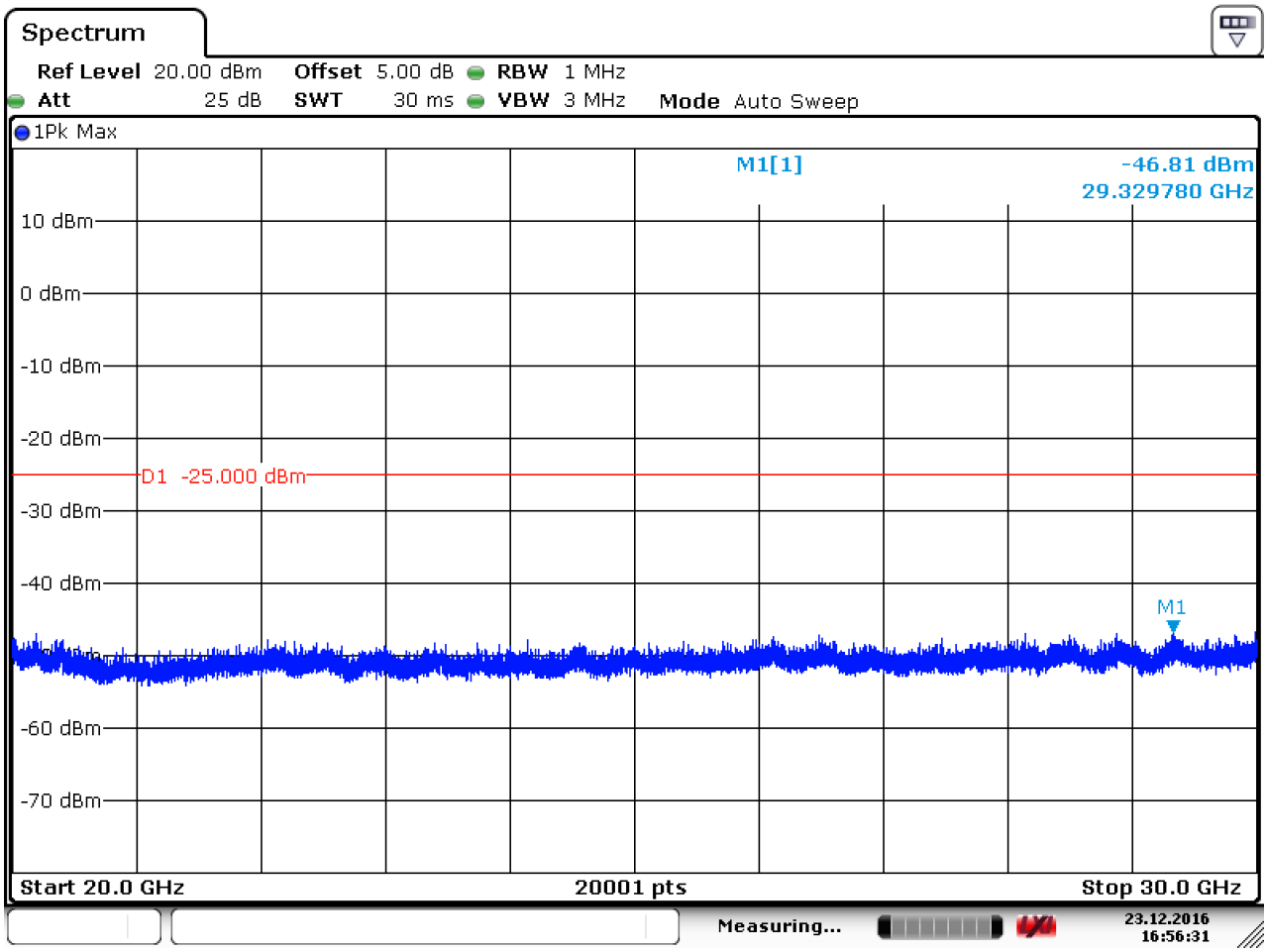

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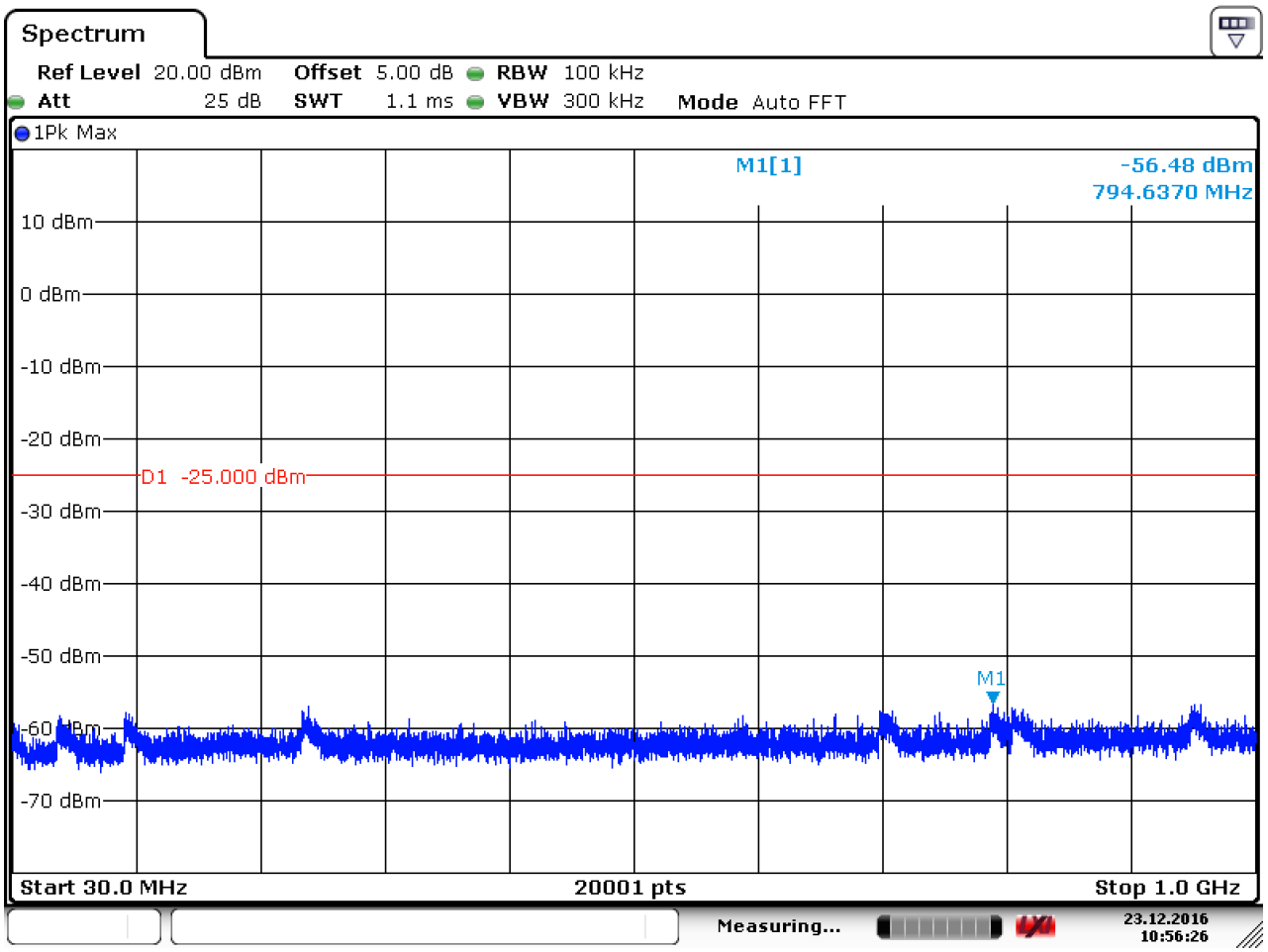
6.1.1.3.3 Test Channel = HCH



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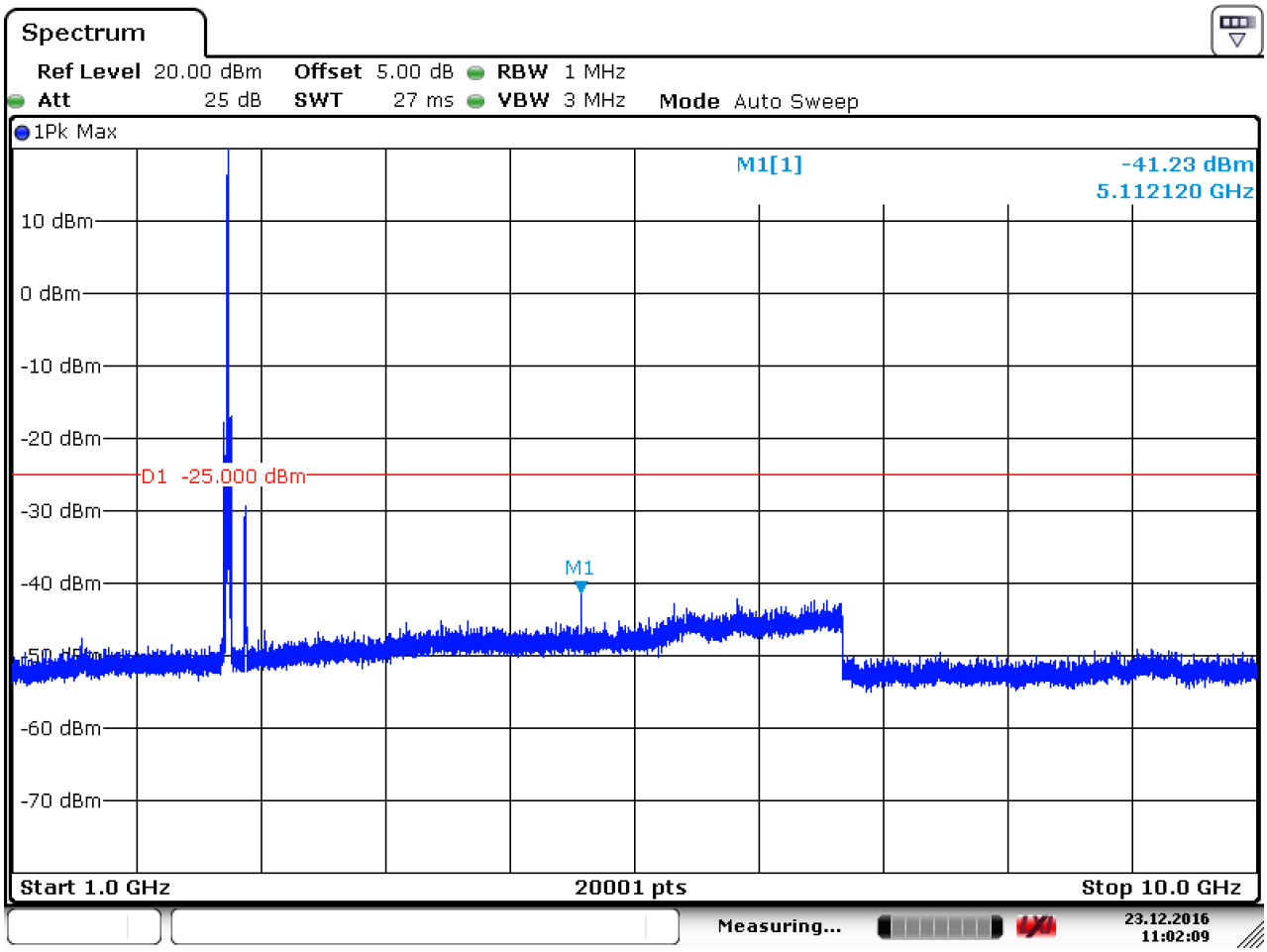

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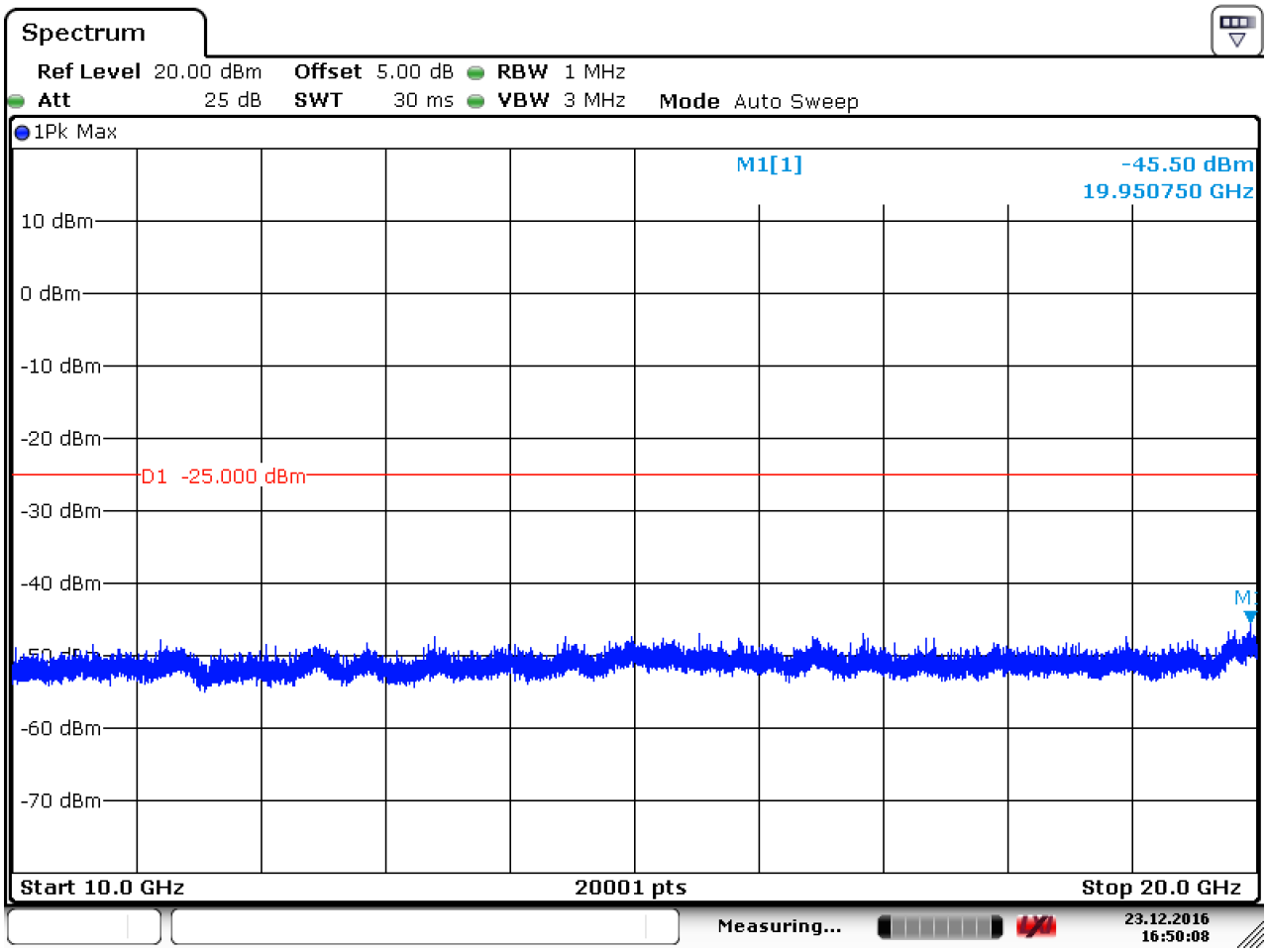

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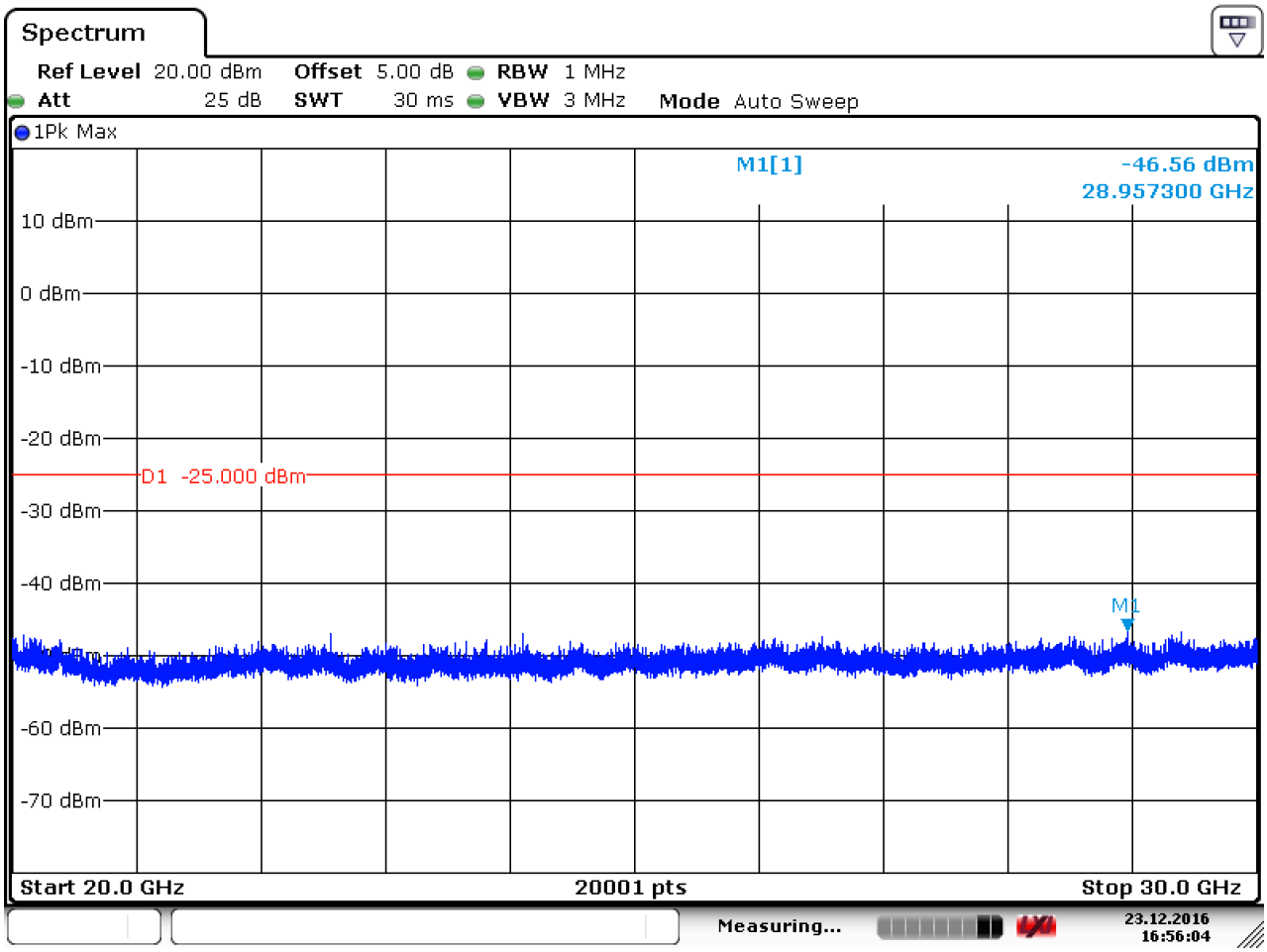

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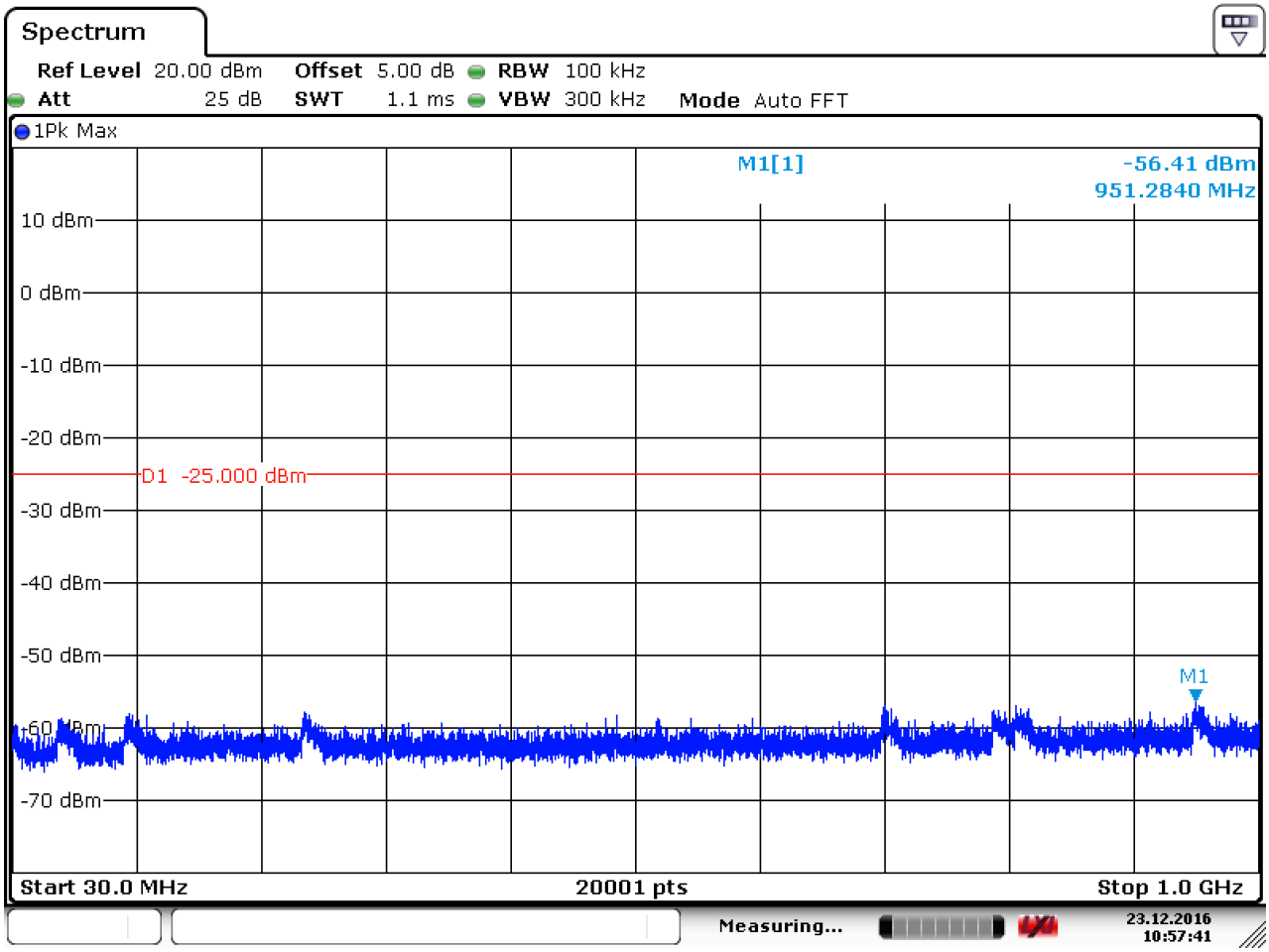
6.1.1.4 Test Mode = LTE / TM1 20MHz RB1#0

6.1.1.4.1 Test Channel = LCH



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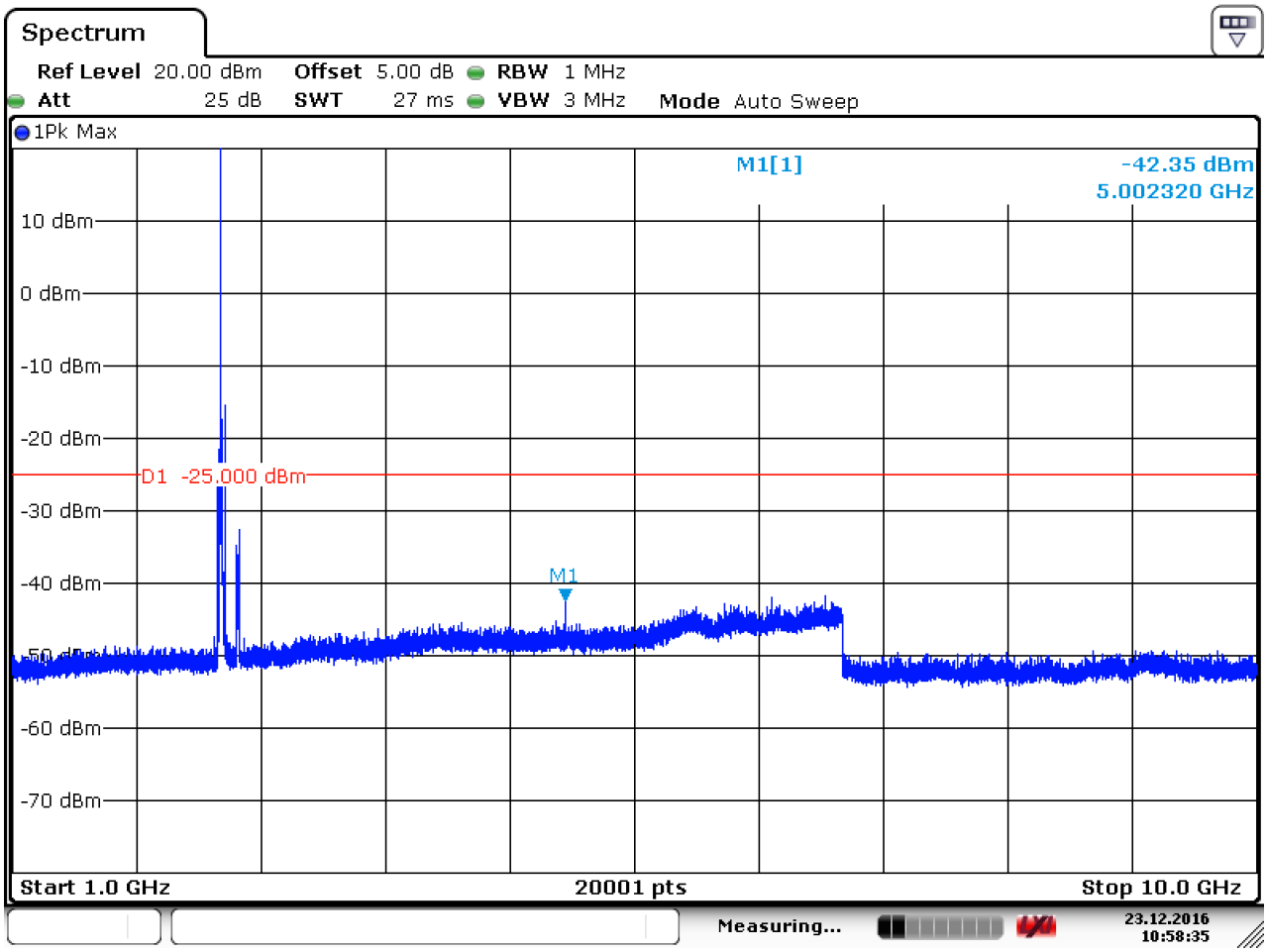

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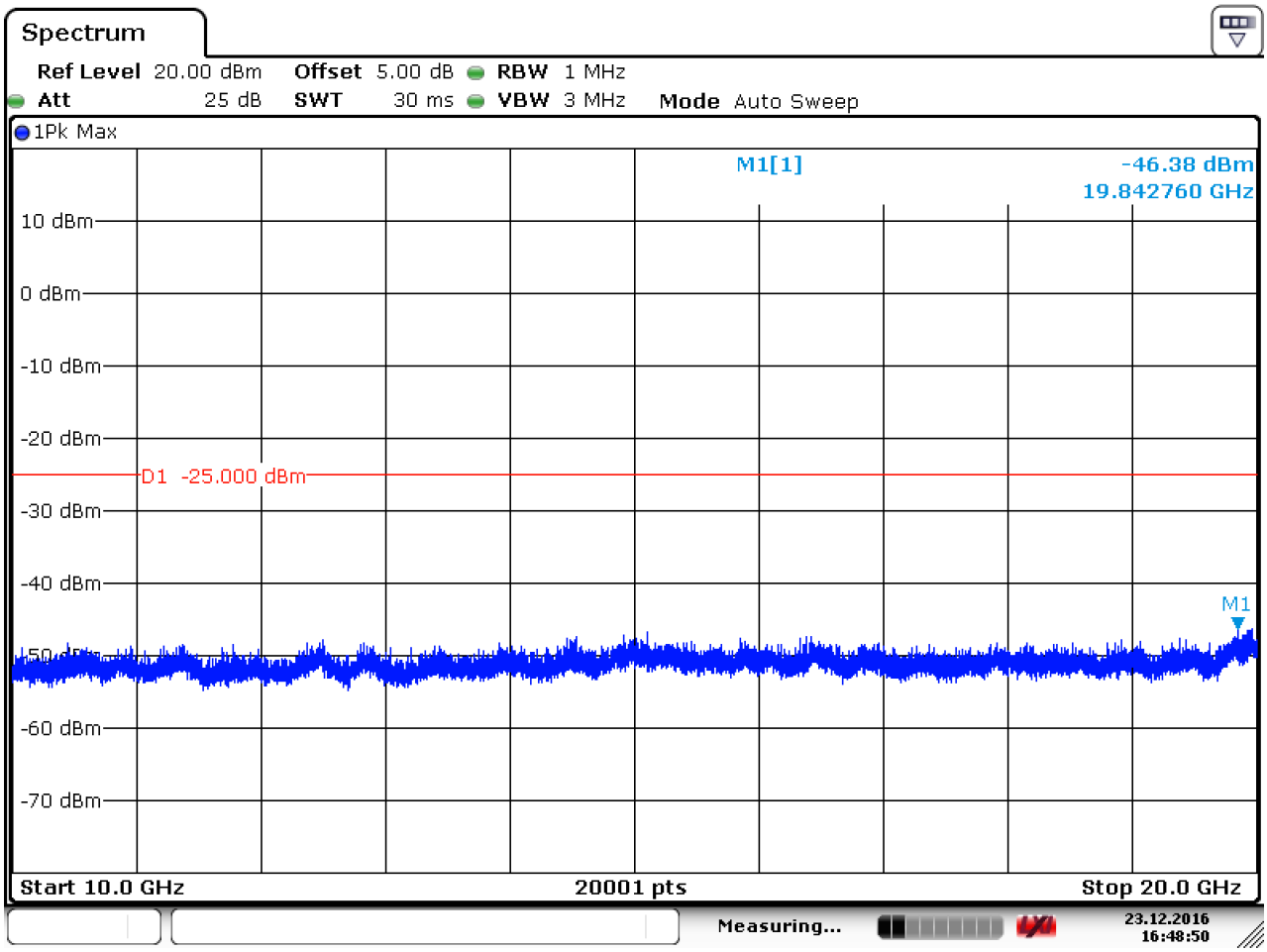

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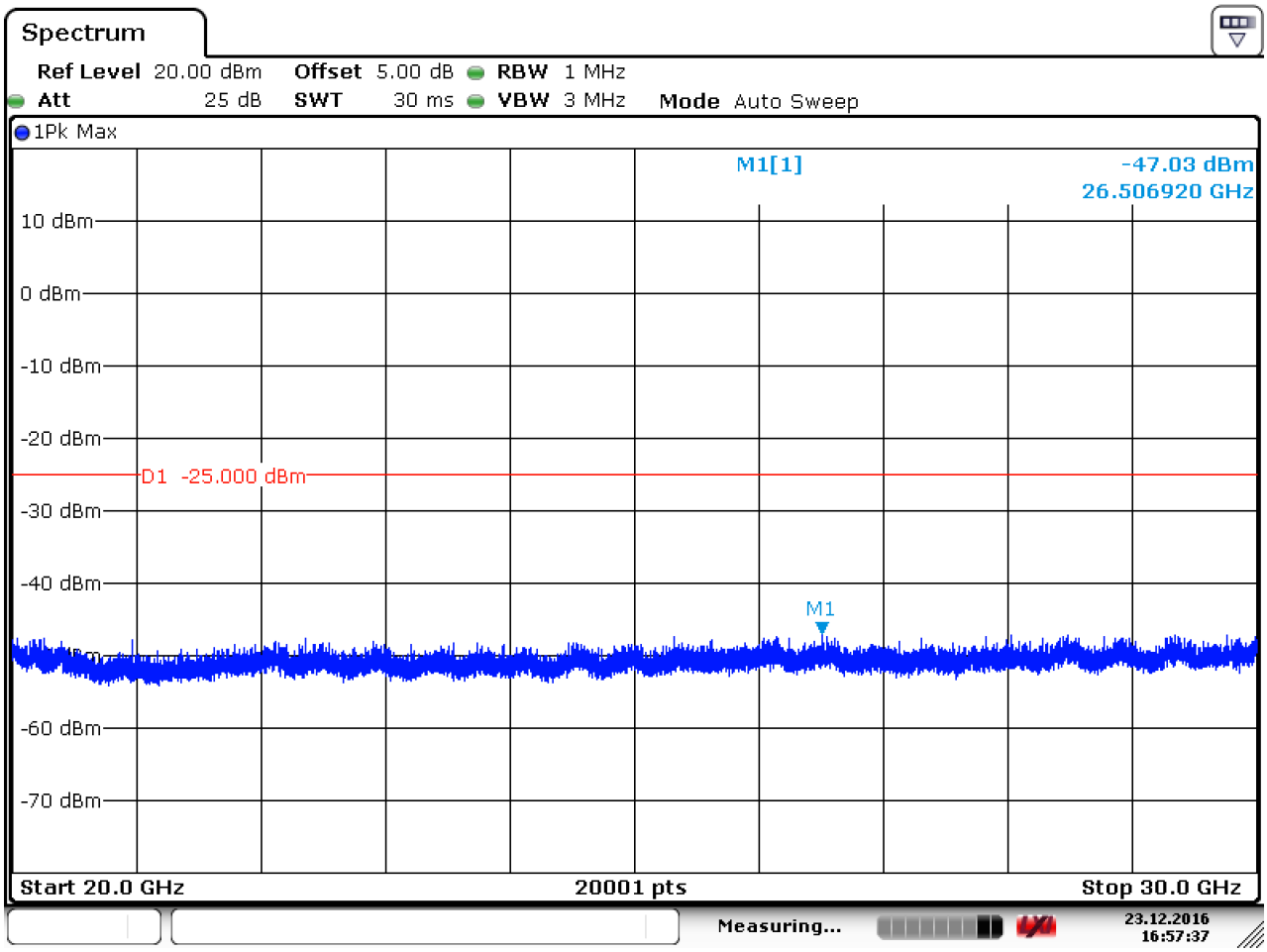

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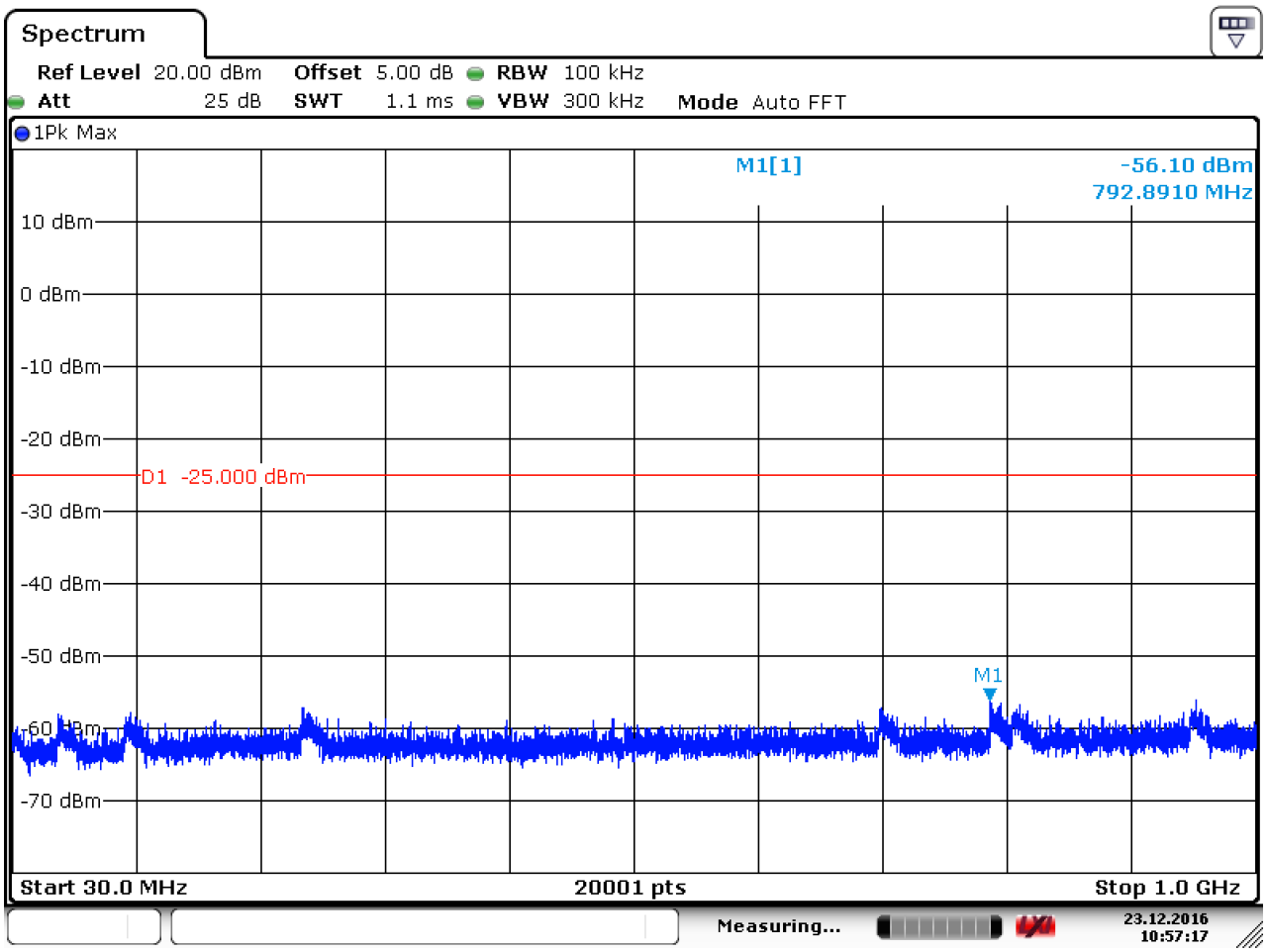
6.1.1.4.2 Test Channel = MCH



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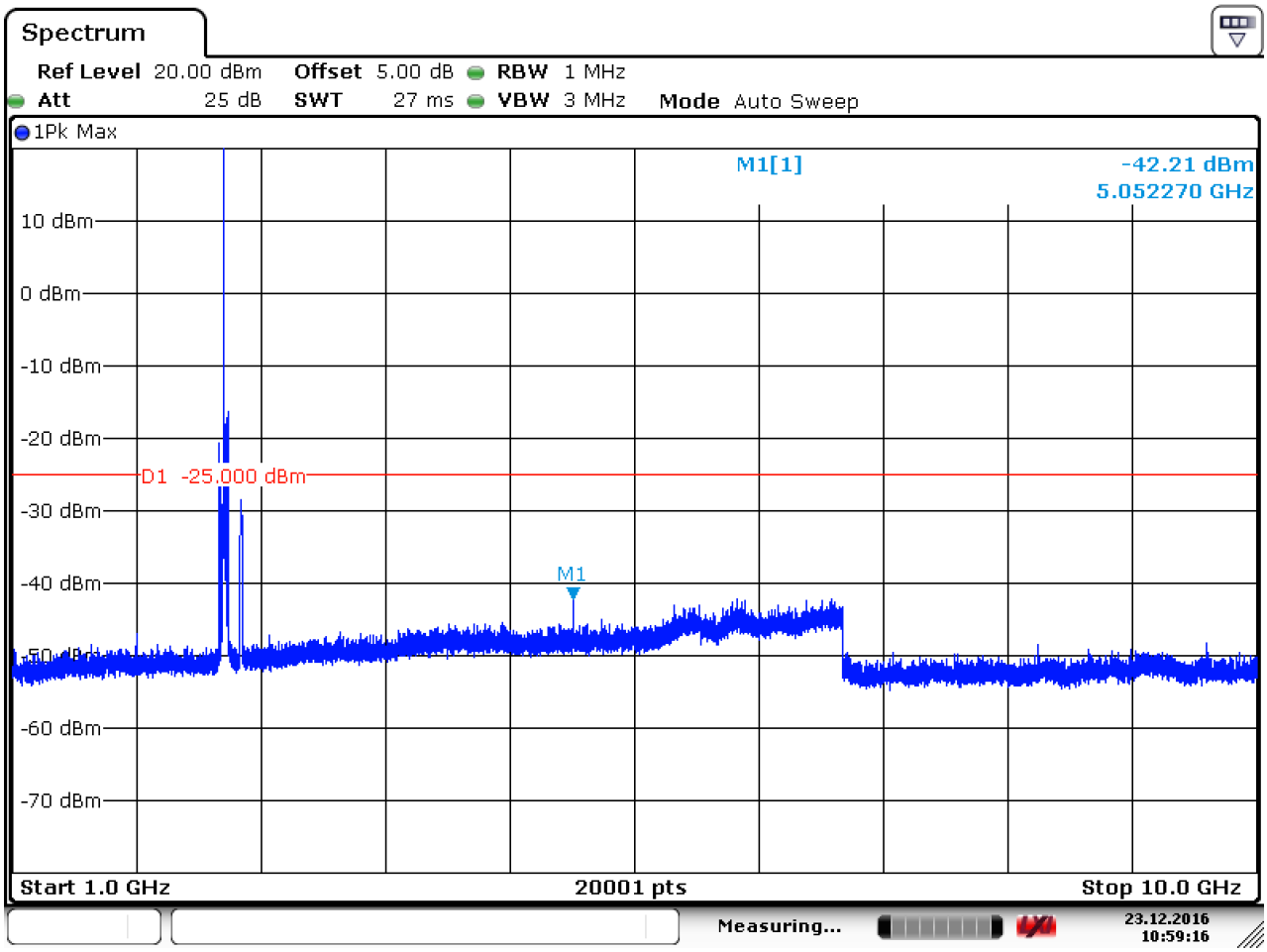

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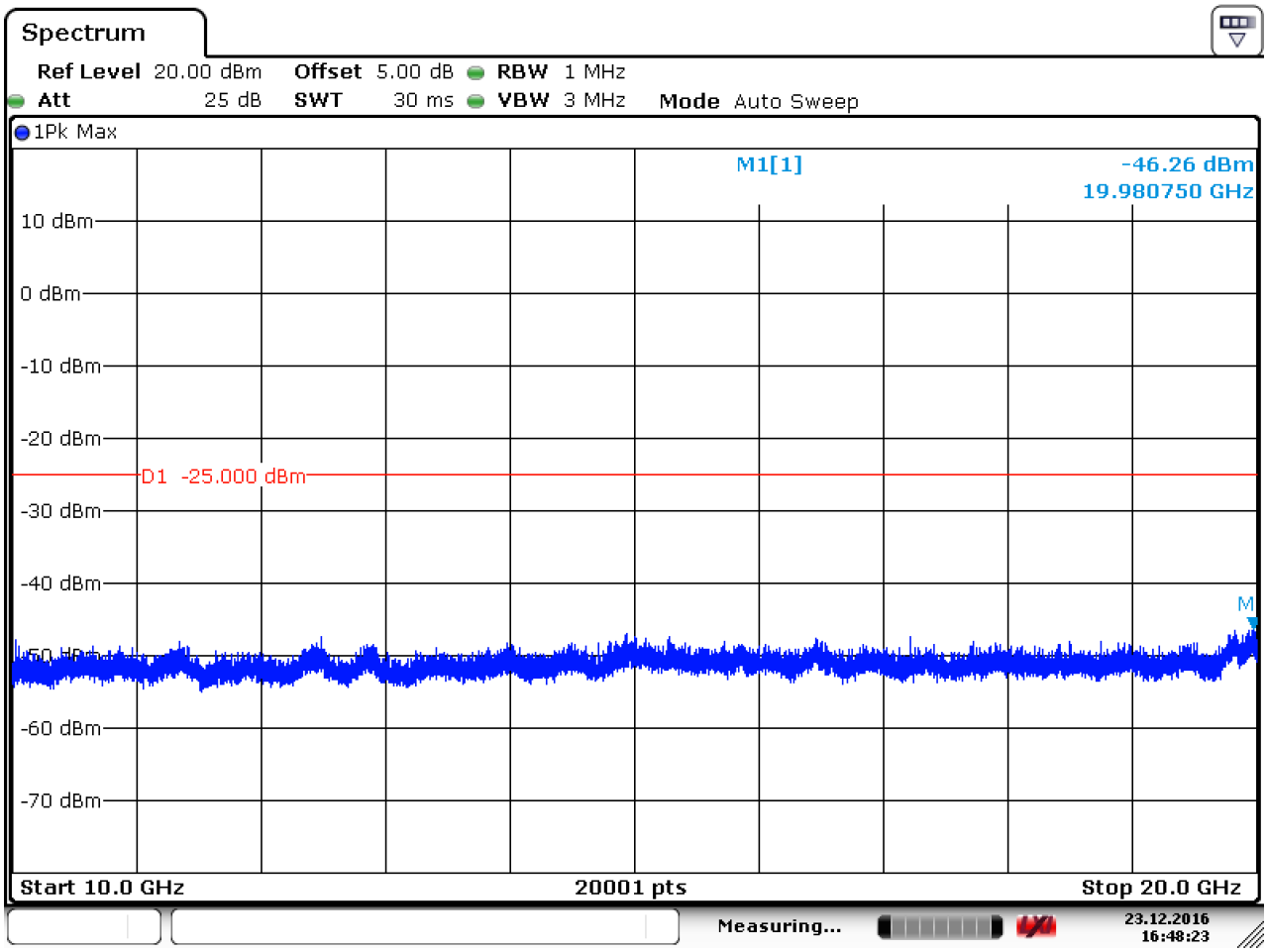

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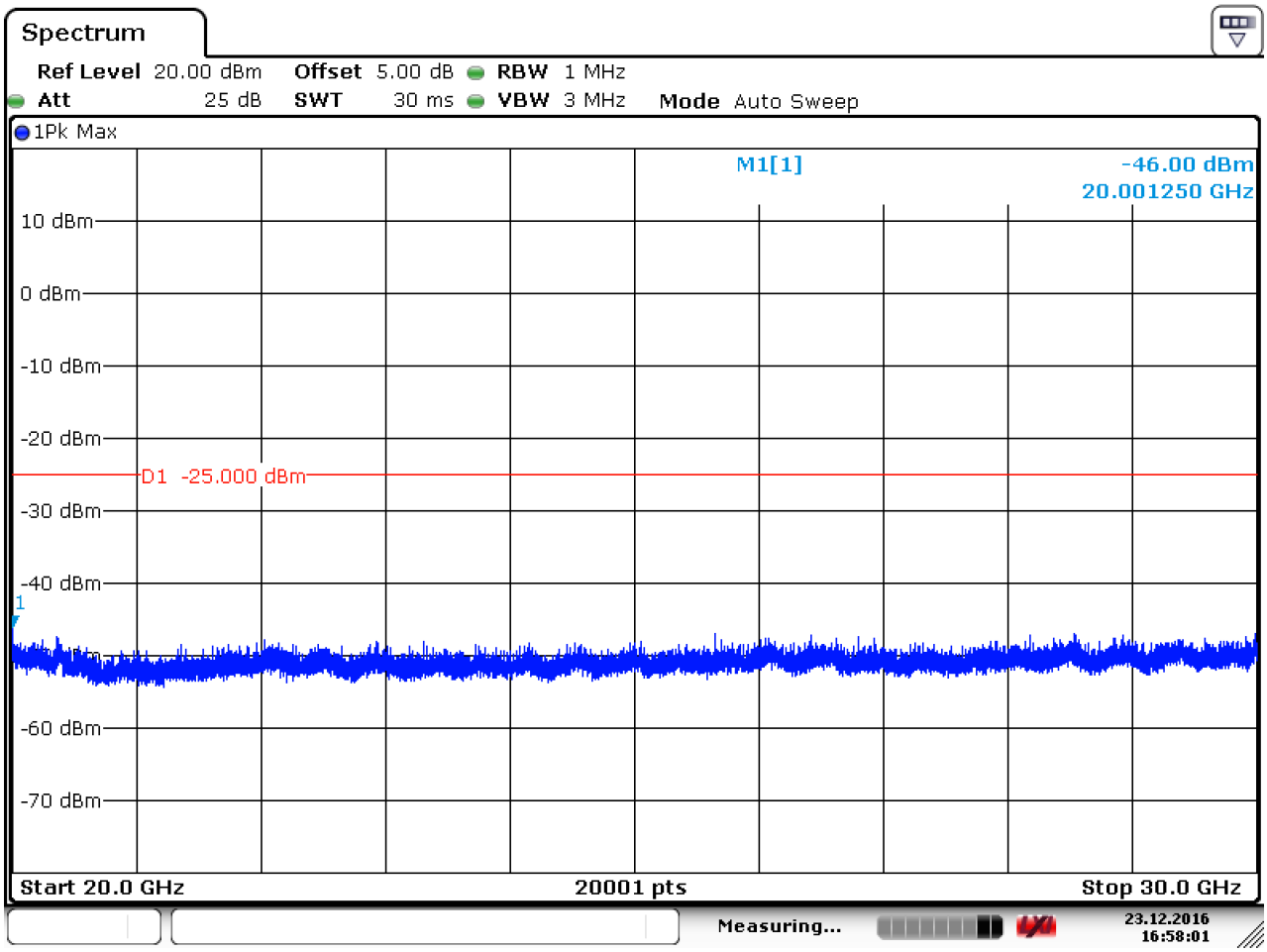

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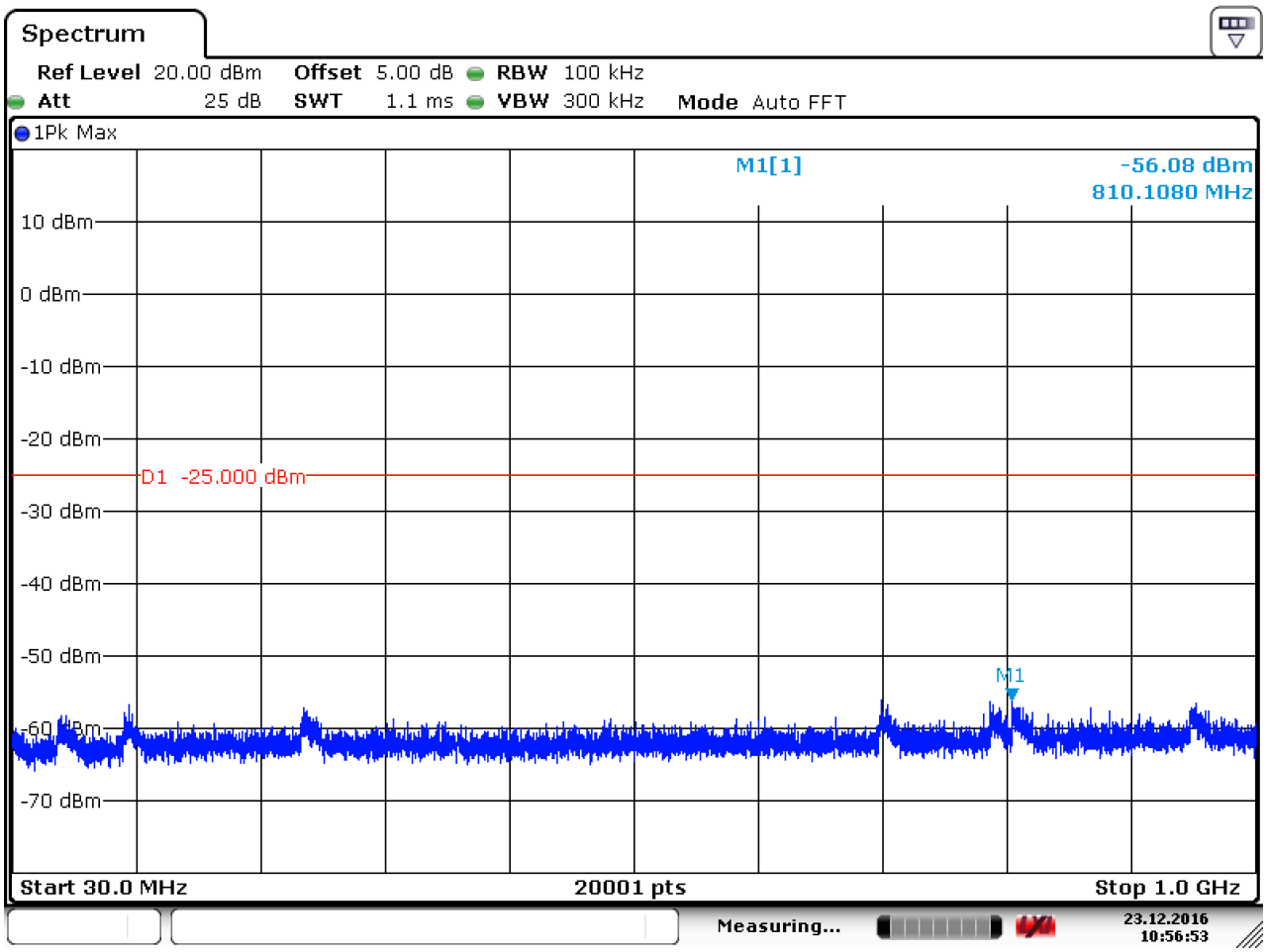
6.1.1.4.3 Test Channel = HCH



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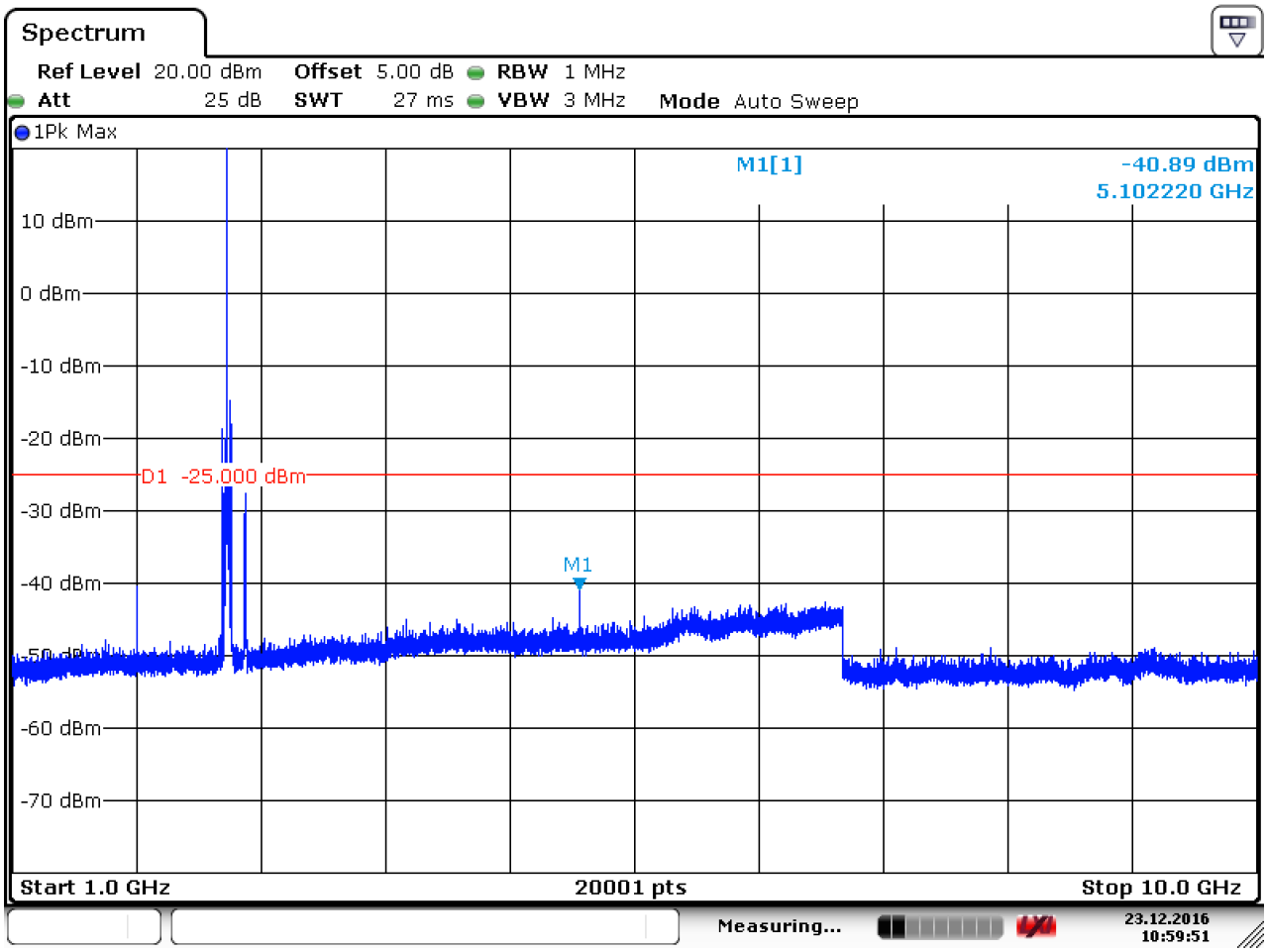

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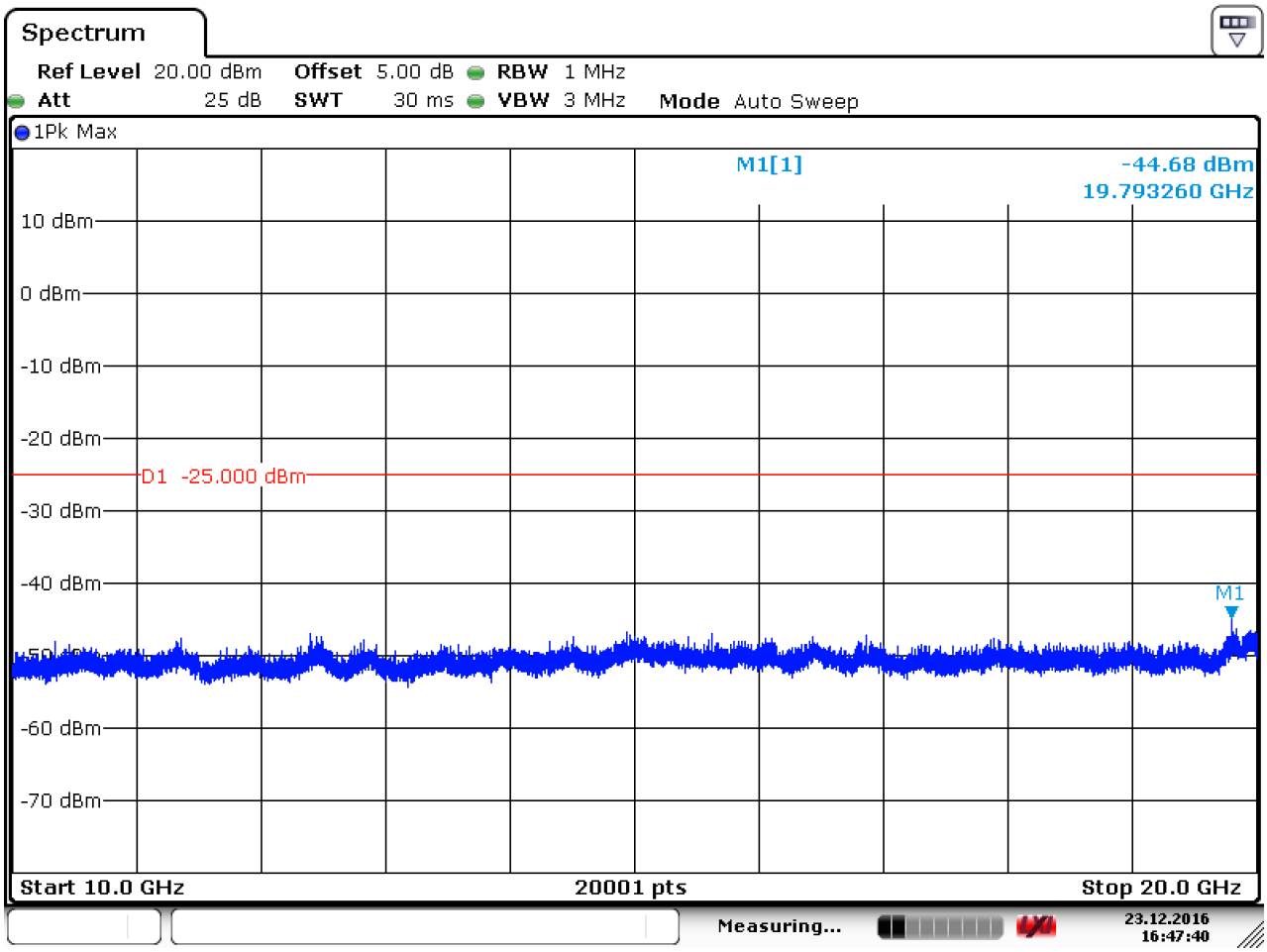

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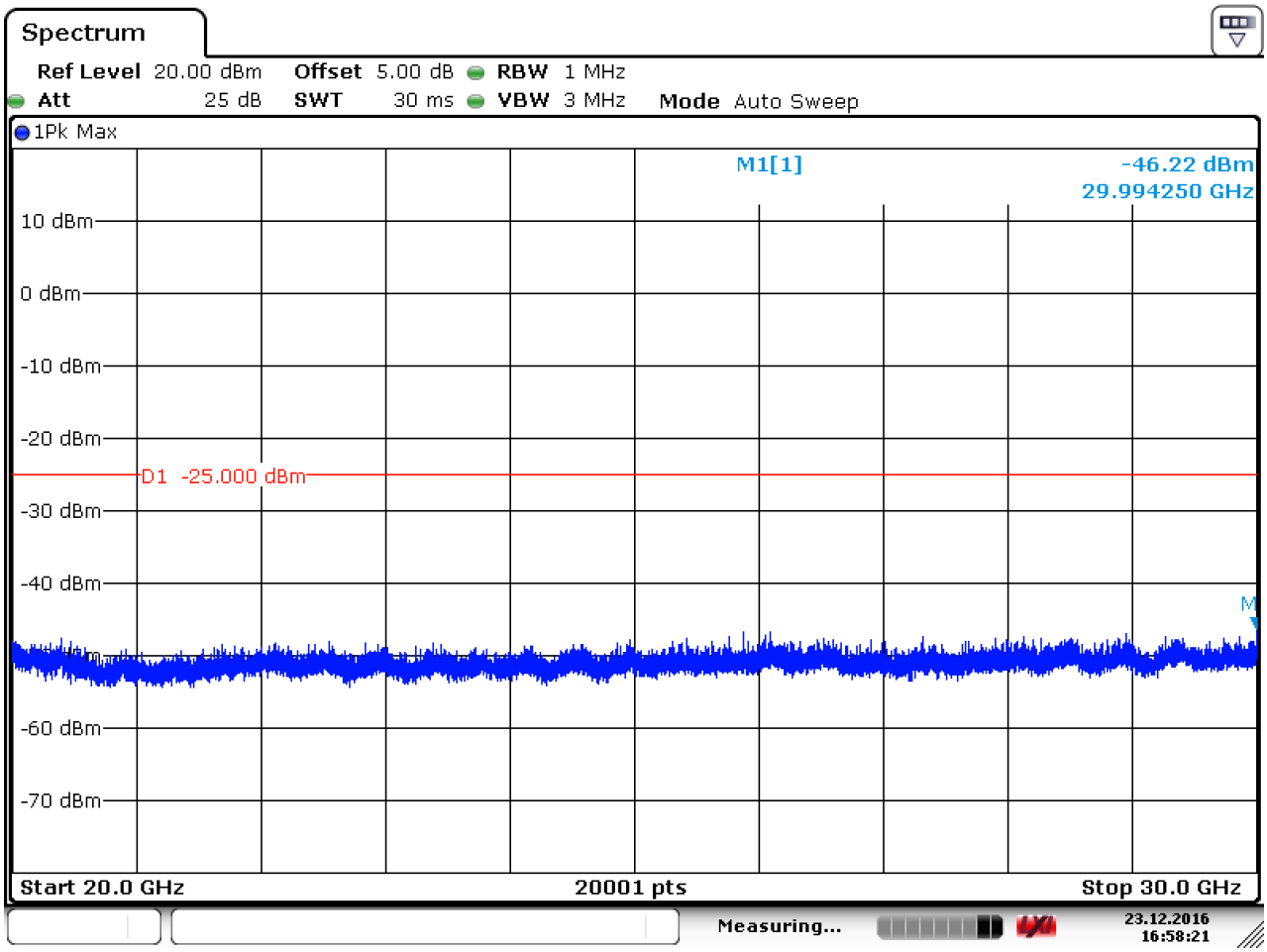

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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band7

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1903.000	-59.18	-25.00	34.18	Vertical
2320.000	-59.61	-25.00	34.61	Vertical
4657.500	-68.03	-25.00	43.03	Vertical
1837.000	-63.13	-25.00	38.13	Horizontal
2488.000	-59.08	-25.00	34.08	Horizontal
3390.000	-70.45	-25.00	45.45	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2280.000	-59.42	-25.00	34.42	Vertical
3195.000	-69.43	-25.00	44.43	Vertical
4852.500	-67.48	-25.00	42.48	Vertical
1892.000	-59.69	-25.00	34.69	Horizontal
2424.000	-58.95	-25.00	33.95	Horizontal
4072.500	-68.78	-25.00	43.78	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
2112.000	-61.77	-25.00	36.77	Vertical
4267.500	-67.86	-25.00	42.86	Vertical
6900.000	-66.04	-25.00	41.04	Vertical
3390.000	-70.47	-25.00	45.47	Horizontal
4170.000	-68.12	-25.00	43.12	Horizontal
5632.500	-67.40	-25.00	42.40	Horizontal

NOTE:

1) All modes are tested,but the data presented above is the worst case.the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

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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 band 7	LTE/TM1 20MHz	LCH	TN	VL	-3.13	-0.00125	PASS
				VN	2.44	0.00097	PASS
				VH	-5.73	-0.00228	PASS
		MCH	TN	VL	1.49	0.00059	PASS
				VN	-2.34	-0.00092	PASS
				VH	3.63	0.00143	PASS
		HCH	TN	VL	-3.56	-0.00139	PASS
				VN	-5.65	-0.00221	PASS
				VH	-1.59	-0.00062	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-3.48	-0.00139	PASS
				VN	-2.74	-0.00109	PASS
				VH	-4.66	-0.00186	PASS
		MCH	TN	VL	0.56	0.00022	PASS
				VN	-1.89	-0.00075	PASS
				VH	2.59	0.00102	PASS
		HCH	TN	VL	-2.95	-0.00115	PASS
				VN	-4.43	-0.00173	PASS
				VH	-2.53	-0.00099	PASS

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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband7	LTE/TM1 20MHz	LCH	VN	-30	-3.40	-0.00135	PASS
				-20	-1.34	-0.00053	PASS
				-10	2.38	0.00095	PASS
				0	1.75	0.00070	PASS
				10	1.65	0.00066	PASS
				20	2.11	0.00084	PASS
				30	-4.31	-0.00172	PASS
				40	-0.65	-0.00026	PASS
				50	2.59	0.00103	PASS
		MCH	VN	-30	-4.80	-0.00189	PASS
				-20	-2.95	-0.00116	PASS
				-10	-7.49	-0.00295	PASS
				0	-5.12	-0.00202	PASS
				10	-4.04	-0.00159	PASS
				20	-3.94	-0.00155	PASS
				30	-5.16	-0.00204	PASS
				40	-2.62	-0.00103	PASS
				50	-6.52	-0.00257	PASS
		HCH	VN	-30	2.51	0.00098	PASS
				-20	-1.88	-0.00073	PASS
				-10	2.53	0.00099	PASS
				0	-4.83	-0.00189	PASS
				10	2.60	0.00102	PASS
				20	-3.51	-0.00137	PASS
				30	-2.87	-0.00112	PASS
				40	-5.43	-0.00212	PASS
				50	-4.90	-0.00191	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
LTEband7	LTE/TM2 20MHz	LCH	VN	-30	-2.50	-0.00100	PASS
				-20	-2.45	-0.00098	PASS
				-10	3.54	0.00141	PASS
				0	2.64	0.00105	PASS
				10	1.60	0.00064	PASS
				20	-0.23	-0.00009	PASS
				30	-3.44	-0.00137	PASS
				40	5.34	0.00213	PASS
				50	6.39	0.00255	PASS
		MCH	VN	-30	-3.30	-0.00130	PASS
				-20	-5.28	-0.00208	PASS
				-10	-6.29	-0.00248	PASS
				0	-4.32	-0.00170	PASS
				10	-3.85	-0.00152	PASS
				20	1.34	0.00053	PASS
				30	-3.64	-0.00144	PASS
				40	-2.62	-0.00103	PASS
				50	-4.99	-0.00197	PASS
		HCH	VN	-30	1.34	0.00052	PASS
				-20	-2.25	-0.00088	PASS
				-10	3.59	0.00140	PASS
				0	-3.72	-0.00145	PASS
				10	2.88	0.00113	PASS
				20	-1.92	-0.00075	PASS
				30	-2.52	-0.00098	PASS
				40	-4.13	-0.00161	PASS
				50	-3.60	-0.00141	PASS

The End

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