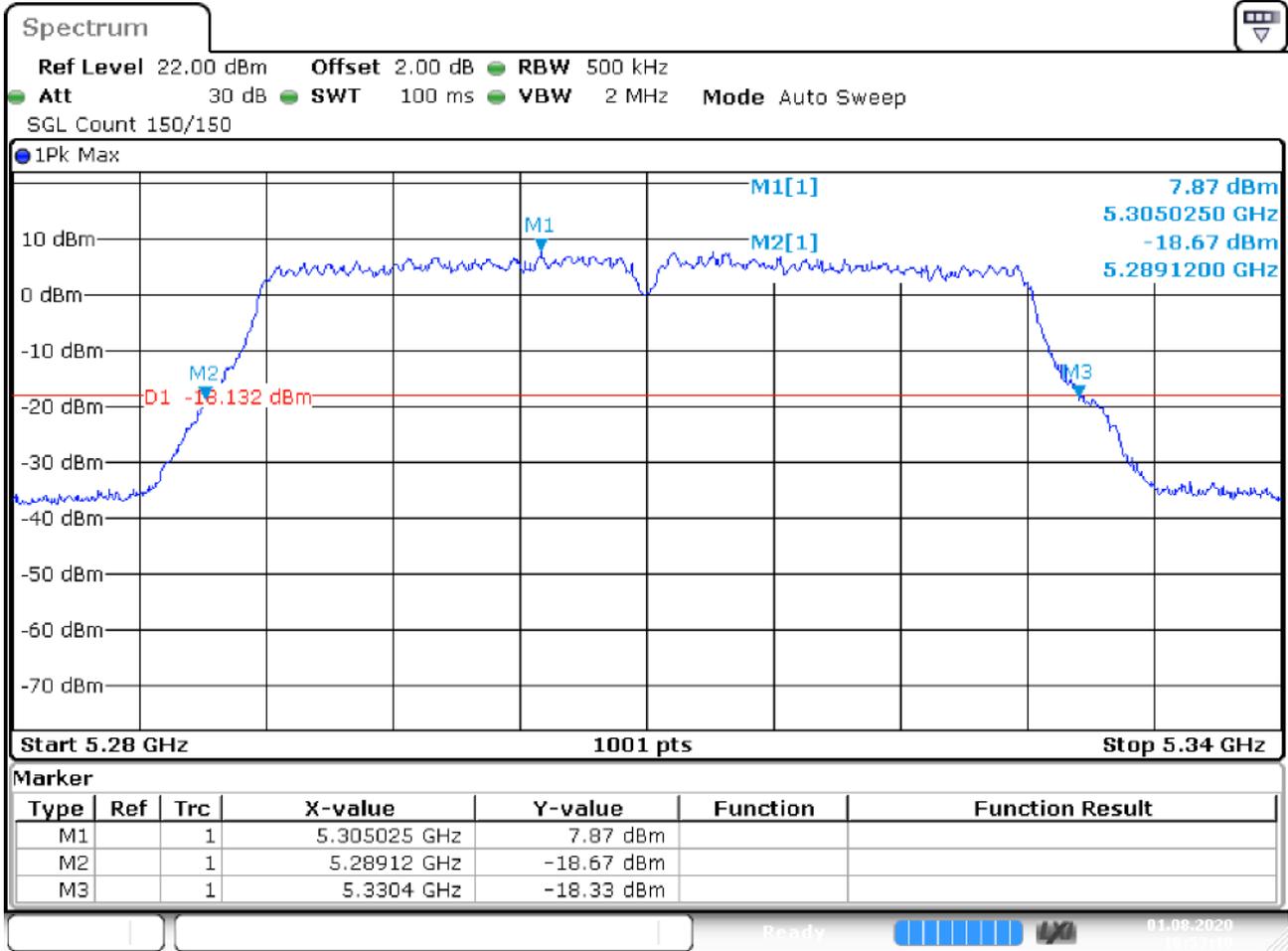


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4.5.1.75 11AC40MIMO\_102 ANT 1



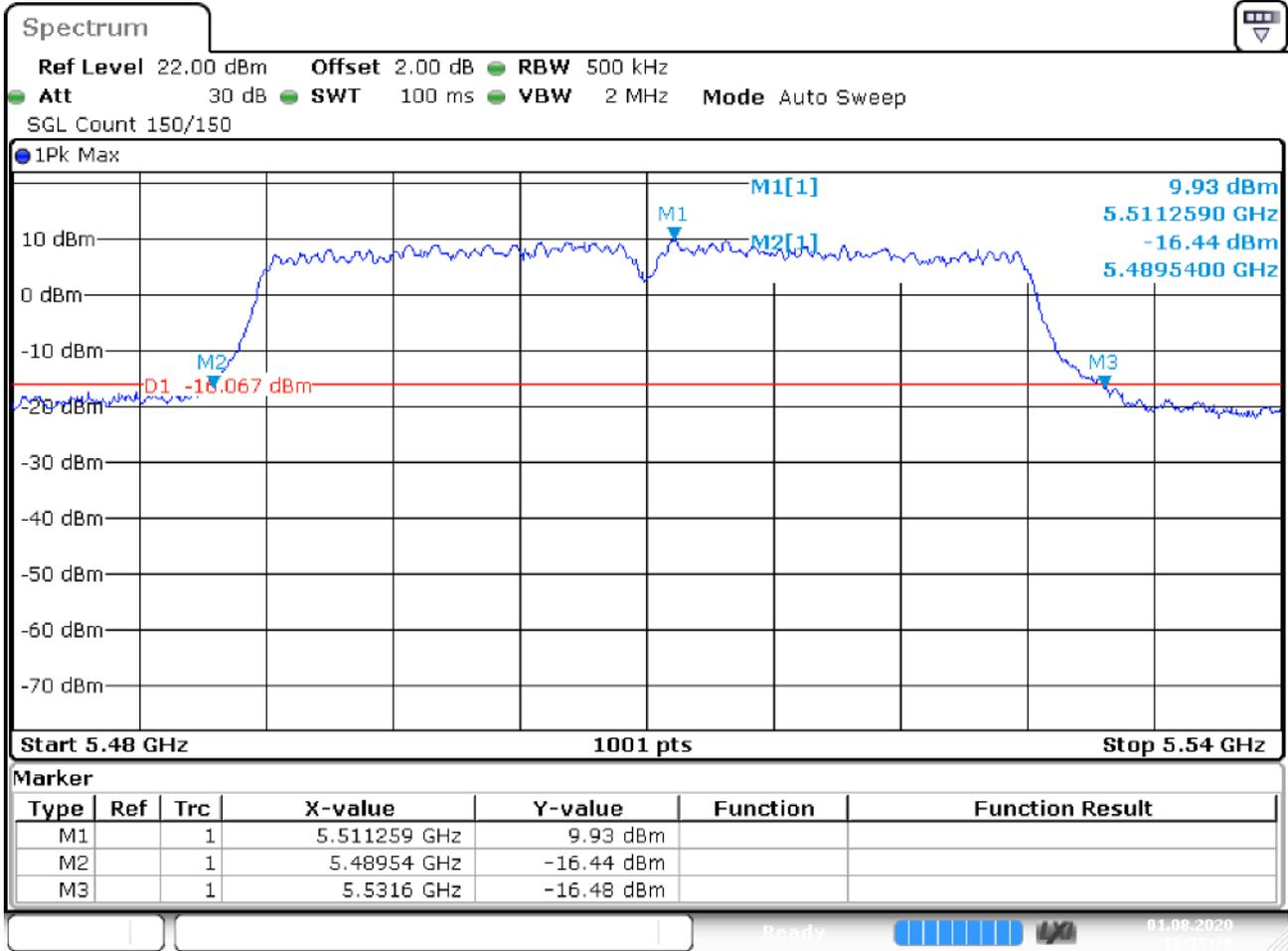
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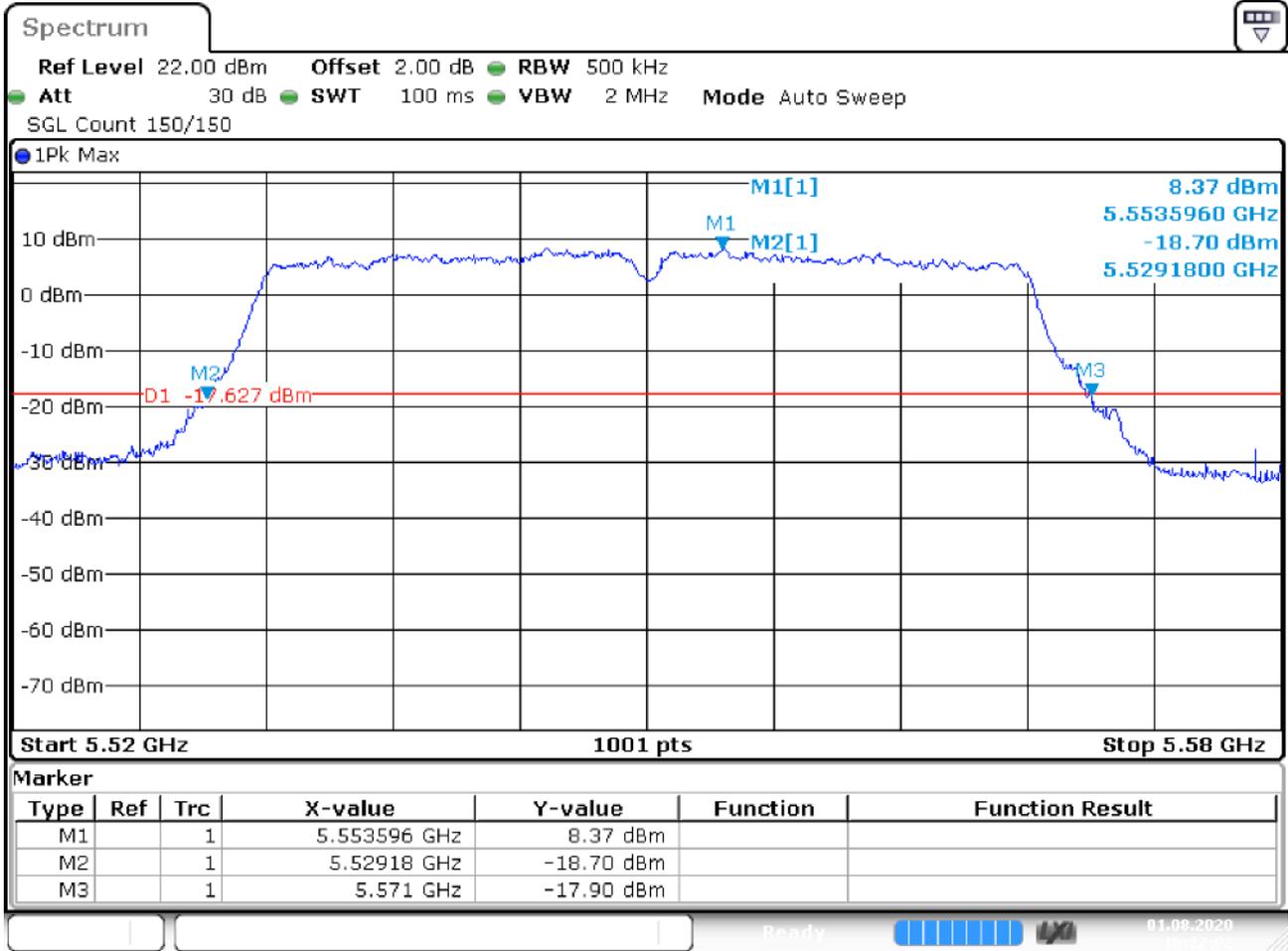
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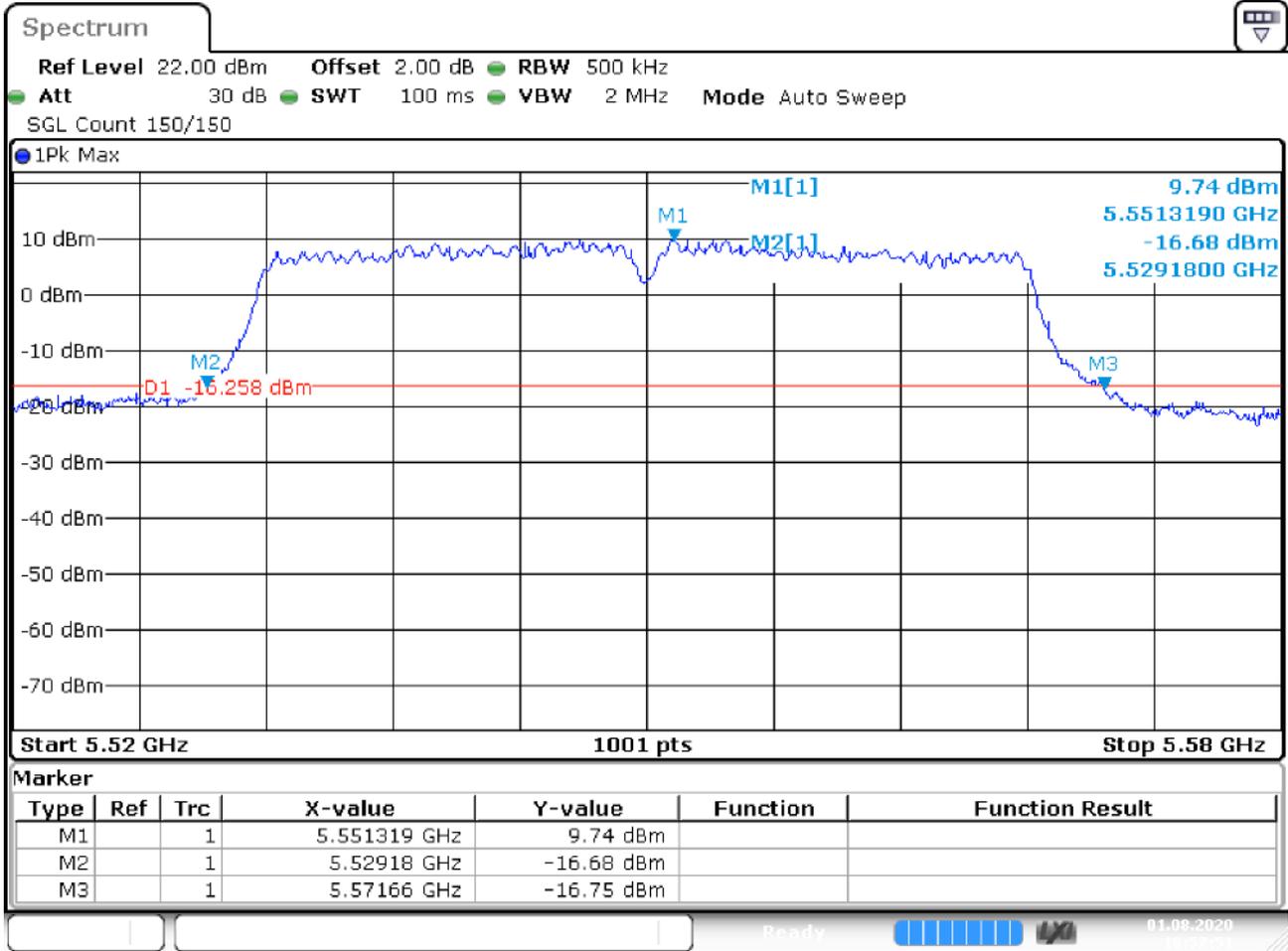
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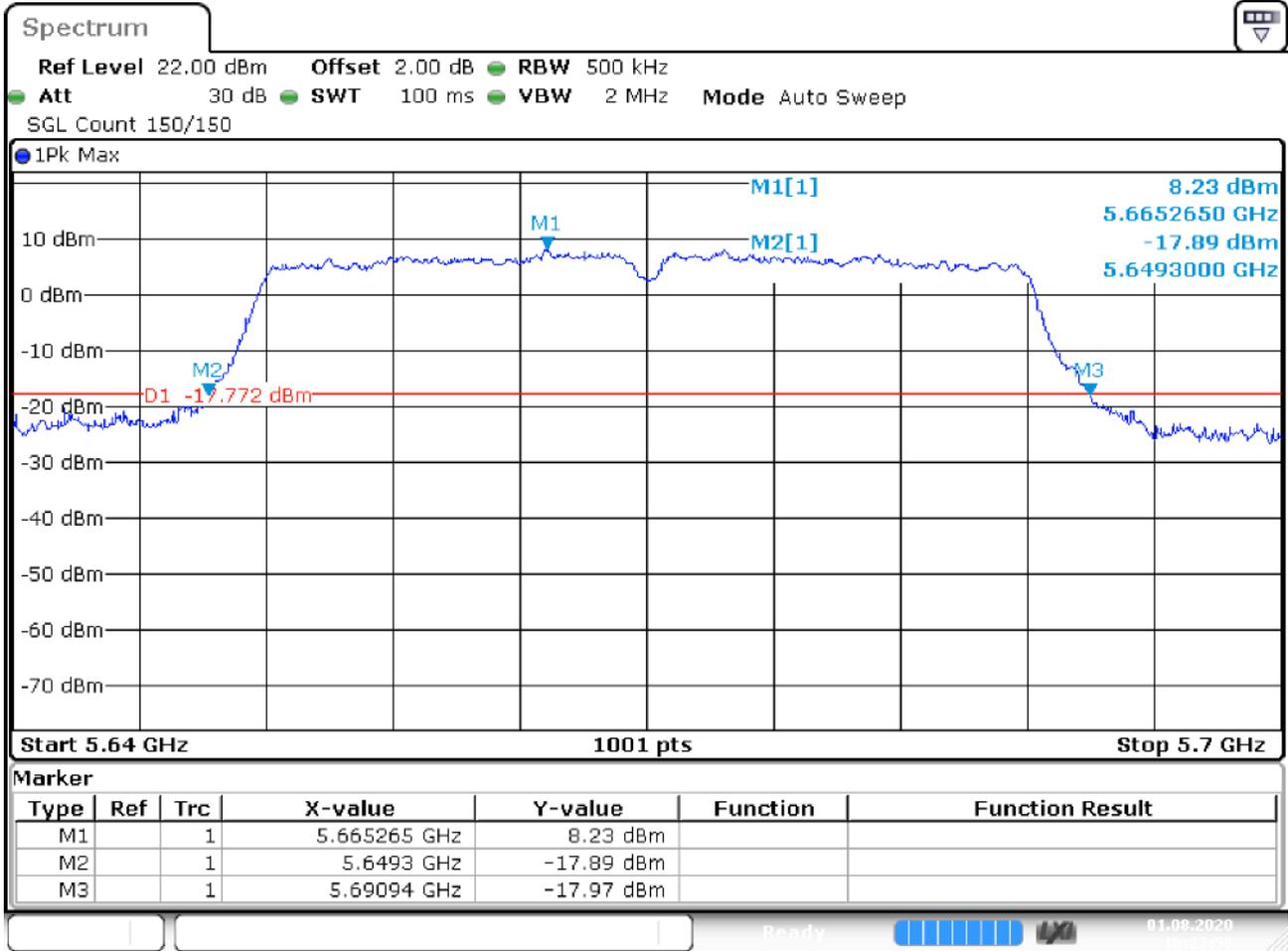
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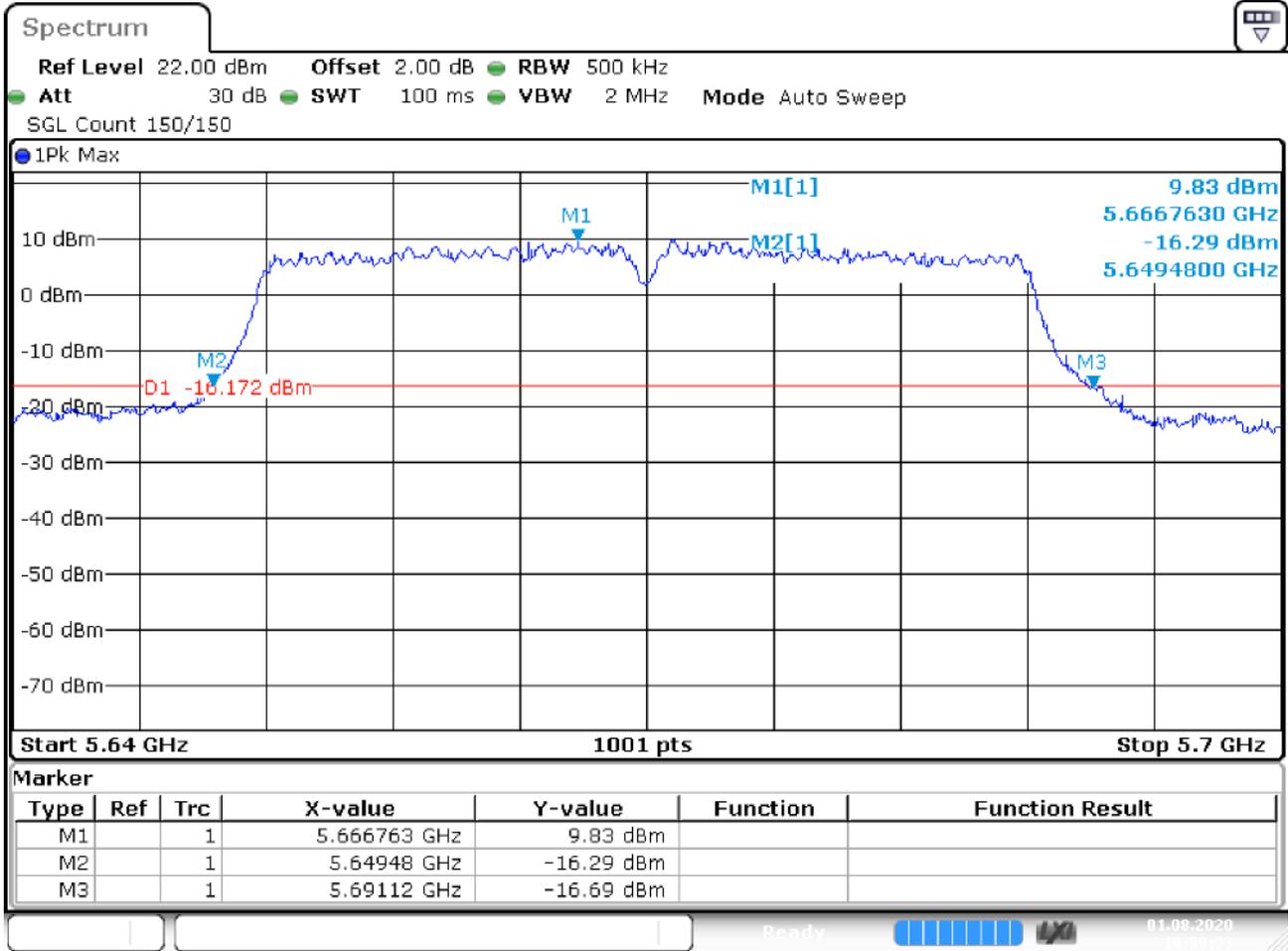
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Date: 1.AUG.2020 16:23:58



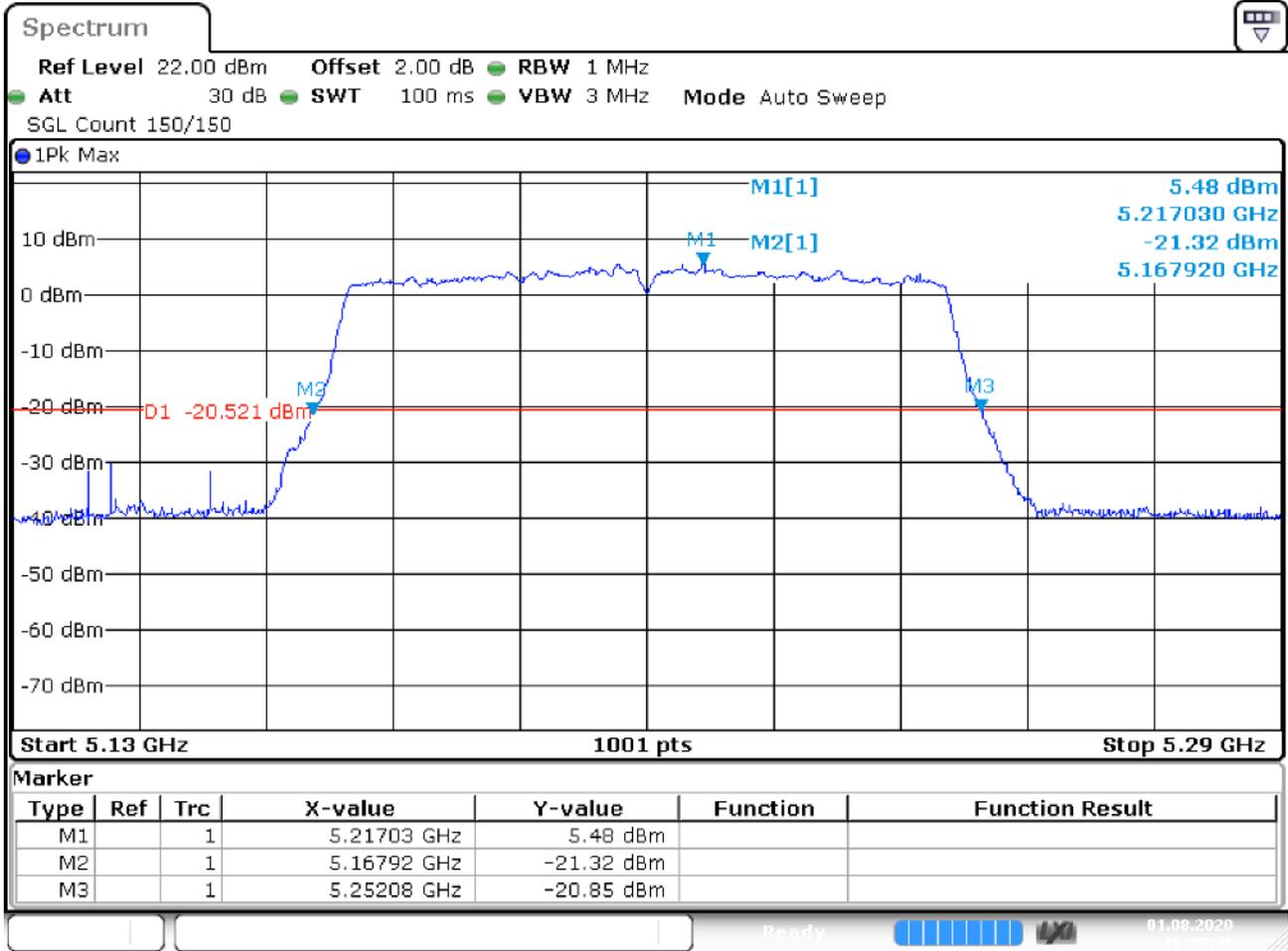
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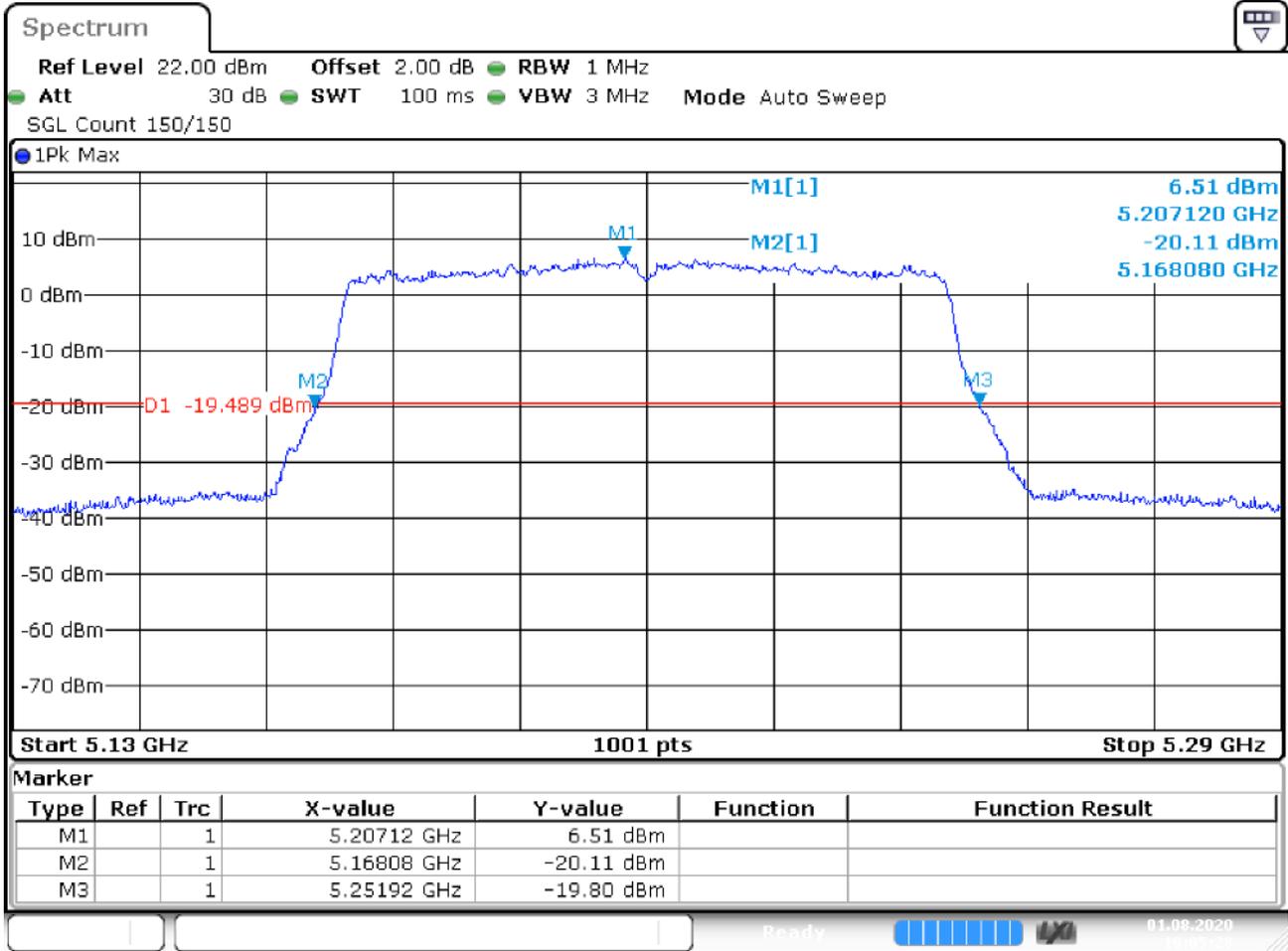
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4.5.1.82 11AC80MIMO\_42 ANT 2



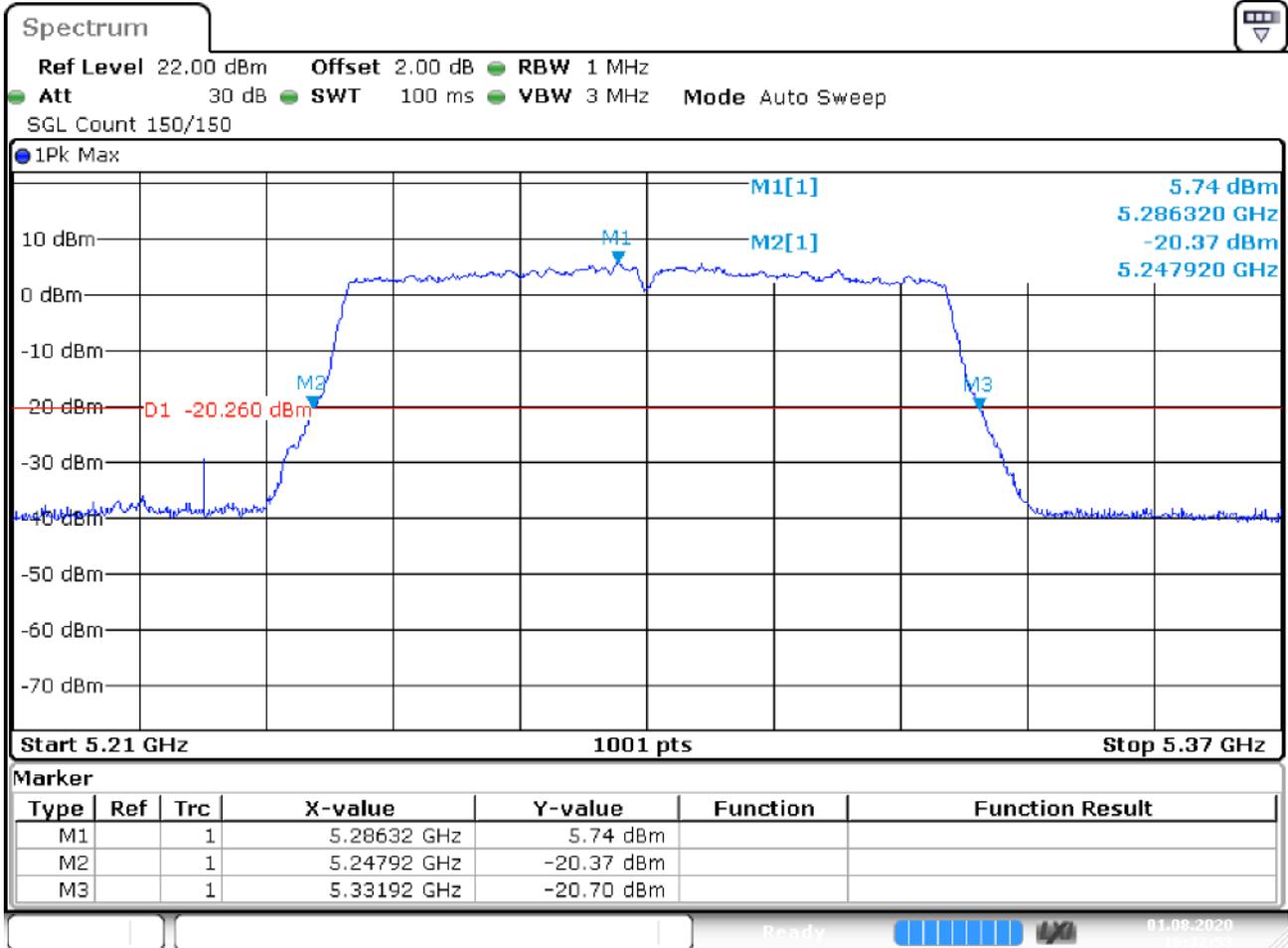
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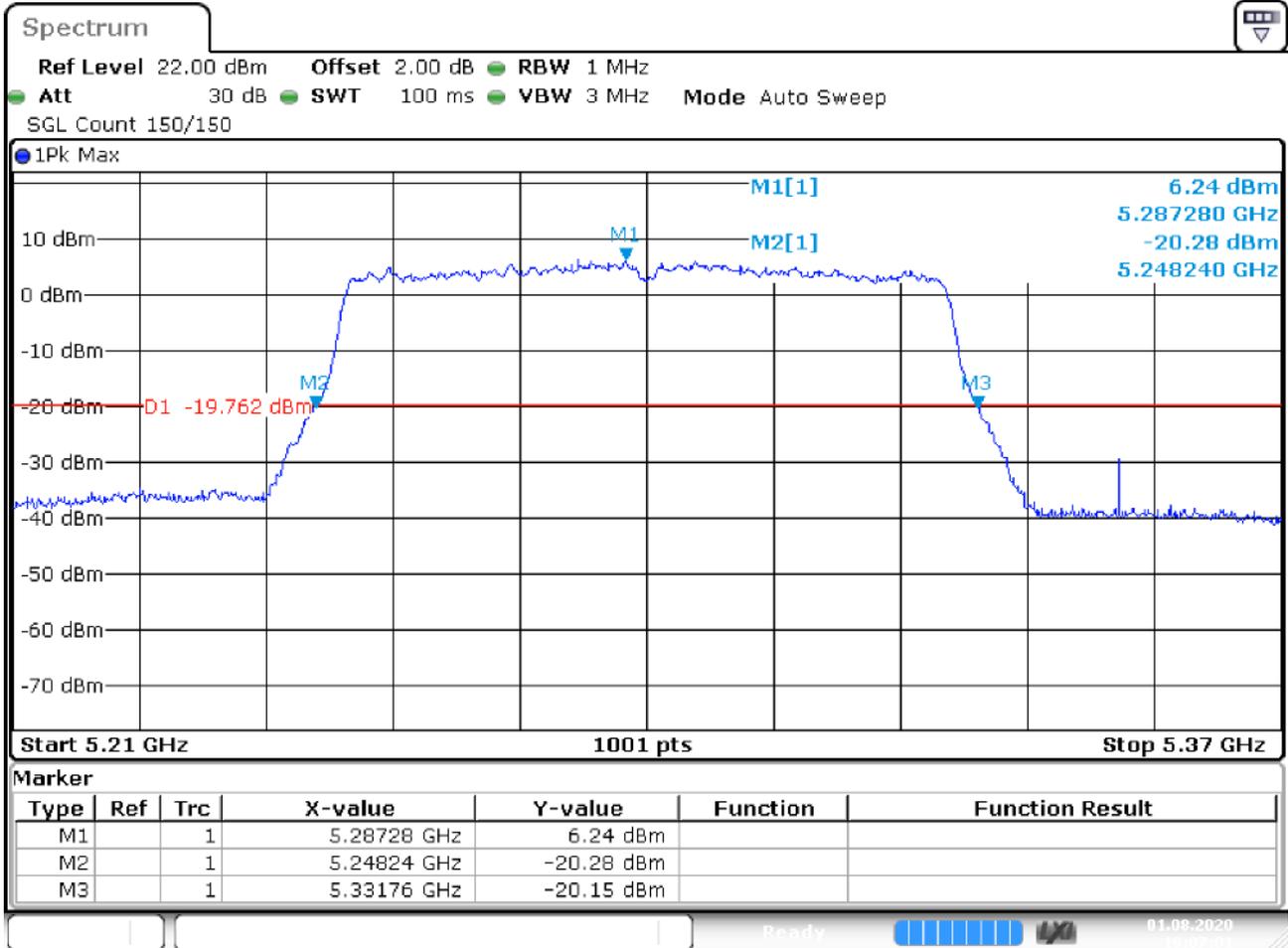
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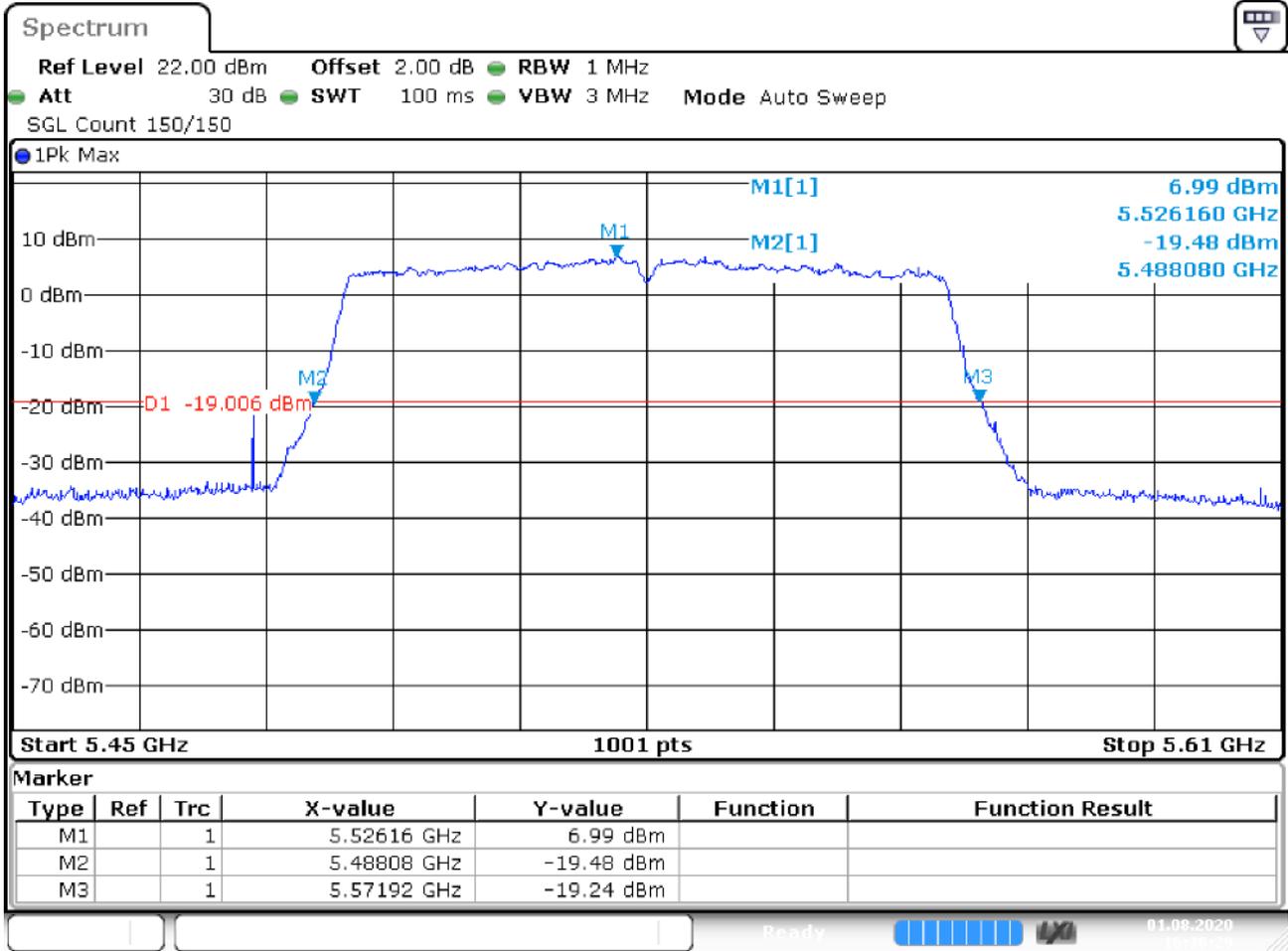
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Date: 1.AUG.2020 19:07:01



4.5.1.85 11AC80MIMO\_106 ANT 1



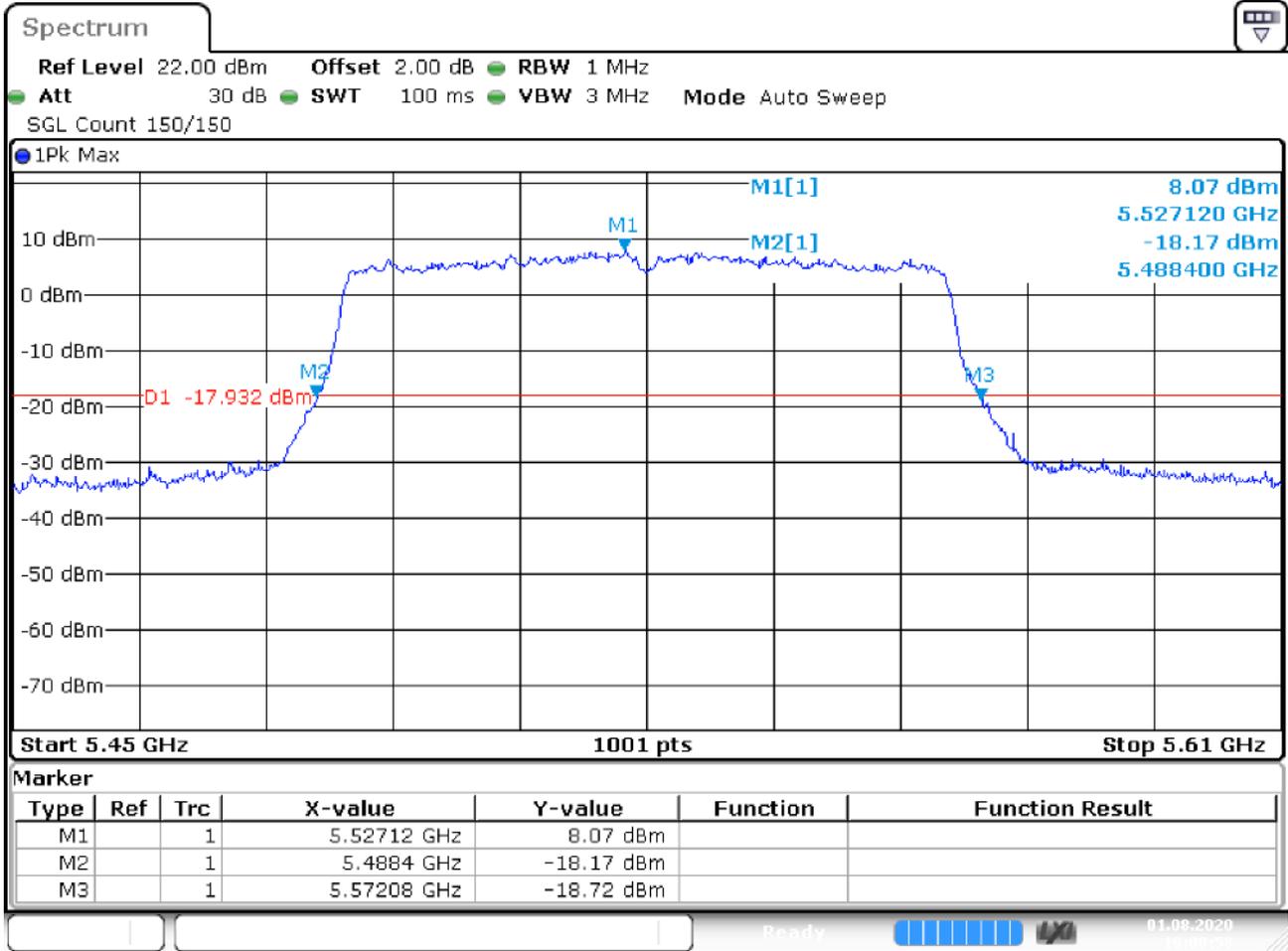
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4.5.1.86 11AC80MIMO\_106 ANT 2



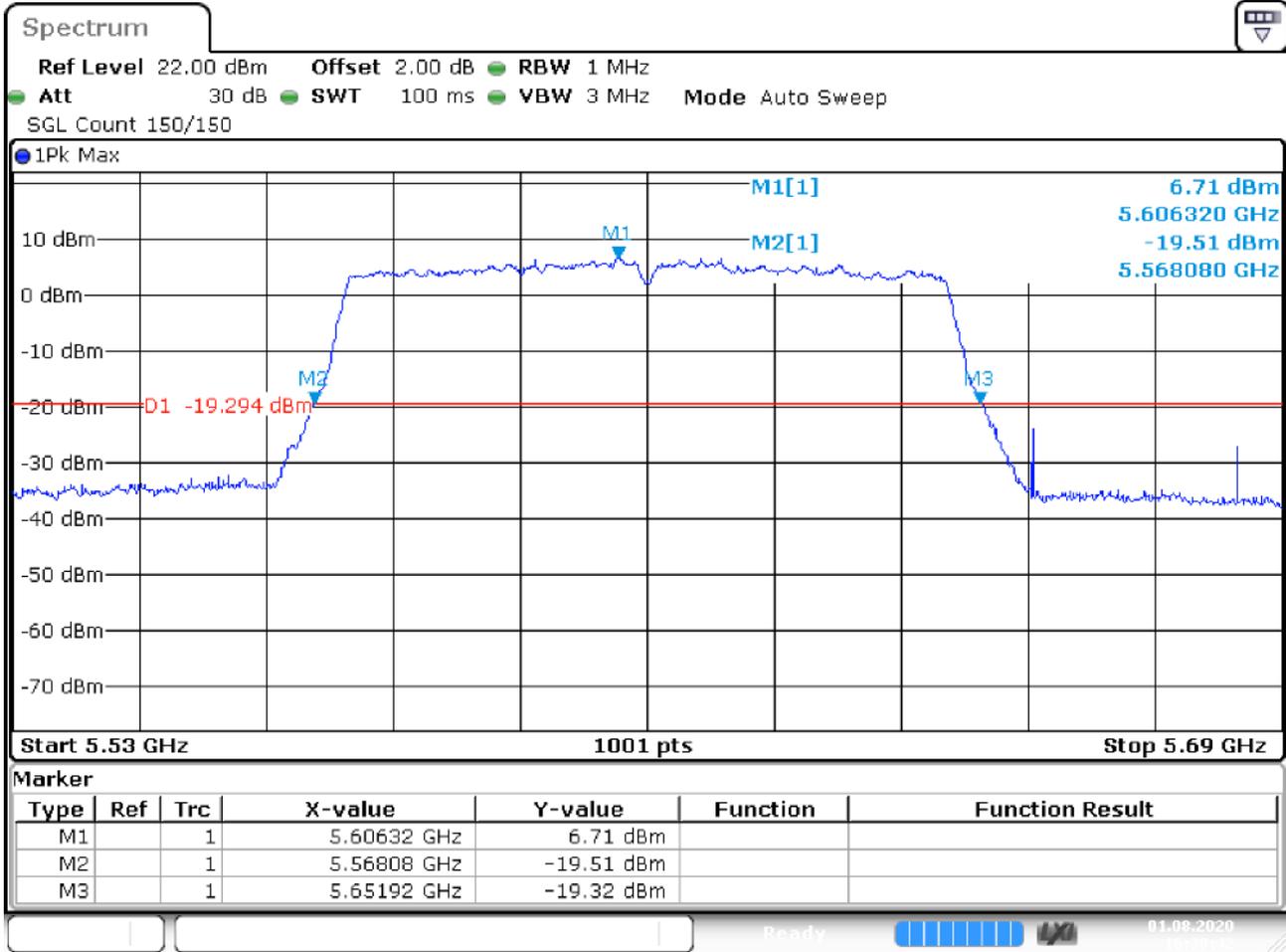
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4.5.1.87 11AC80MIMO\_122 ANT 1



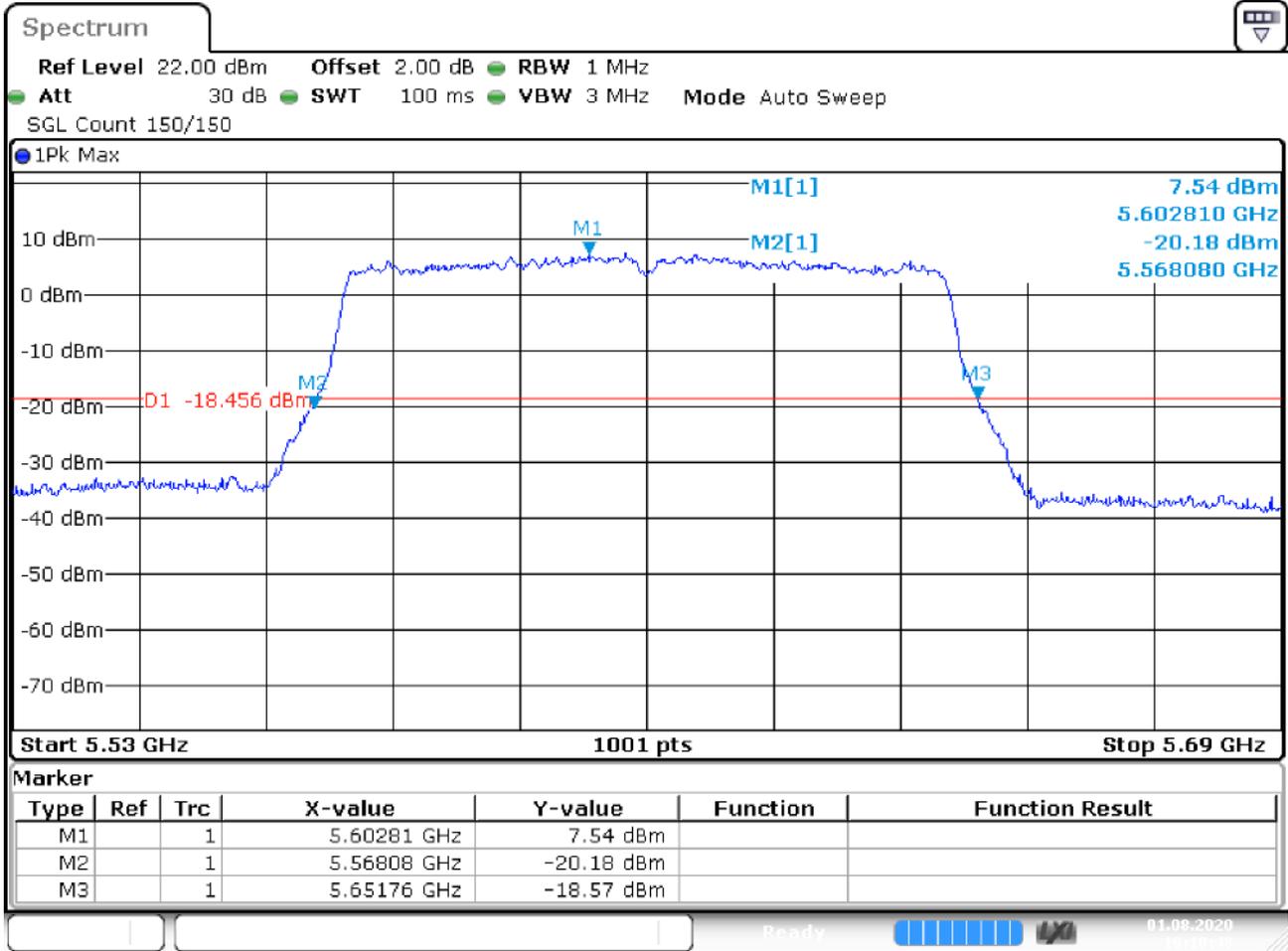
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4.5.1.88 11AC80MIMO\_122 ANT 2



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### 4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find the</p> <ul style="list-style-type: none"> <li>6Mbps of rate is the worst case of 802.11a;</li> <li>MCS0 of rate is the worst case of 802.11n(HT20);</li> <li>MCS0 of rate is the worst case of 802.11n(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT20);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT40);</li> <li>MCS0 of rate is the worst case of 802.11ac(HT80).</li> </ul> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	



**4.6.1 Test Results For 6dB Emission Bandwidth**

Test Mode	Test Channel	Frequency [MHz]	6dB Emission Bandwidth [MHz]		Verdict
			ANT 1	ANT 2	
11A20 CDD	149	5745	15.57	15.42	PASS
	157	5785	15.57	15.39	PASS
	161	5805	15.42	15.78	PASS
11N20 MIMO	149	5745	16.92	16.08	PASS
	157	5785	16.05	15.54	PASS
	161	5805	16.05	16.08	PASS
11N40 MIMO	151	5755	36.06	35.28	PASS
	159	5795	35.52	35.28	PASS
11AC20 MIMO	149	5745	15.78	16.38	PASS
	157	5785	15.21	16.62	PASS
	161	5805	15.39	16.59	PASS
11AC40 MIMO	151	5755	35.22	35.28	PASS
	159	5795	35.4	35.28	PASS
11AC80 MIMO	155	5775	75.52	75.52	PASS

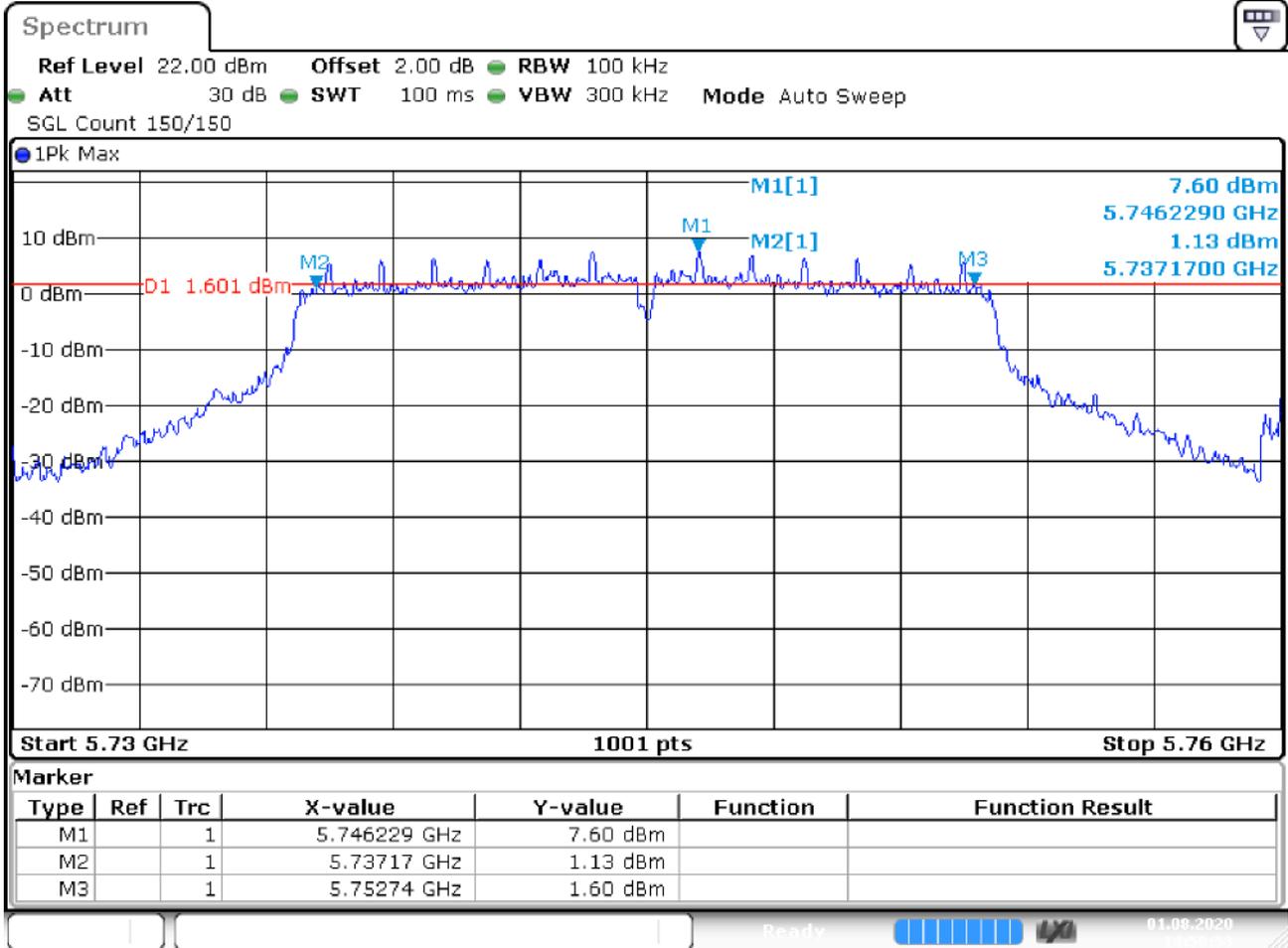


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4.6.2 Test Plots For 6dB Emission Bandwidth  
11A20\_CDD\_149 ANT 1

4.6.2.1



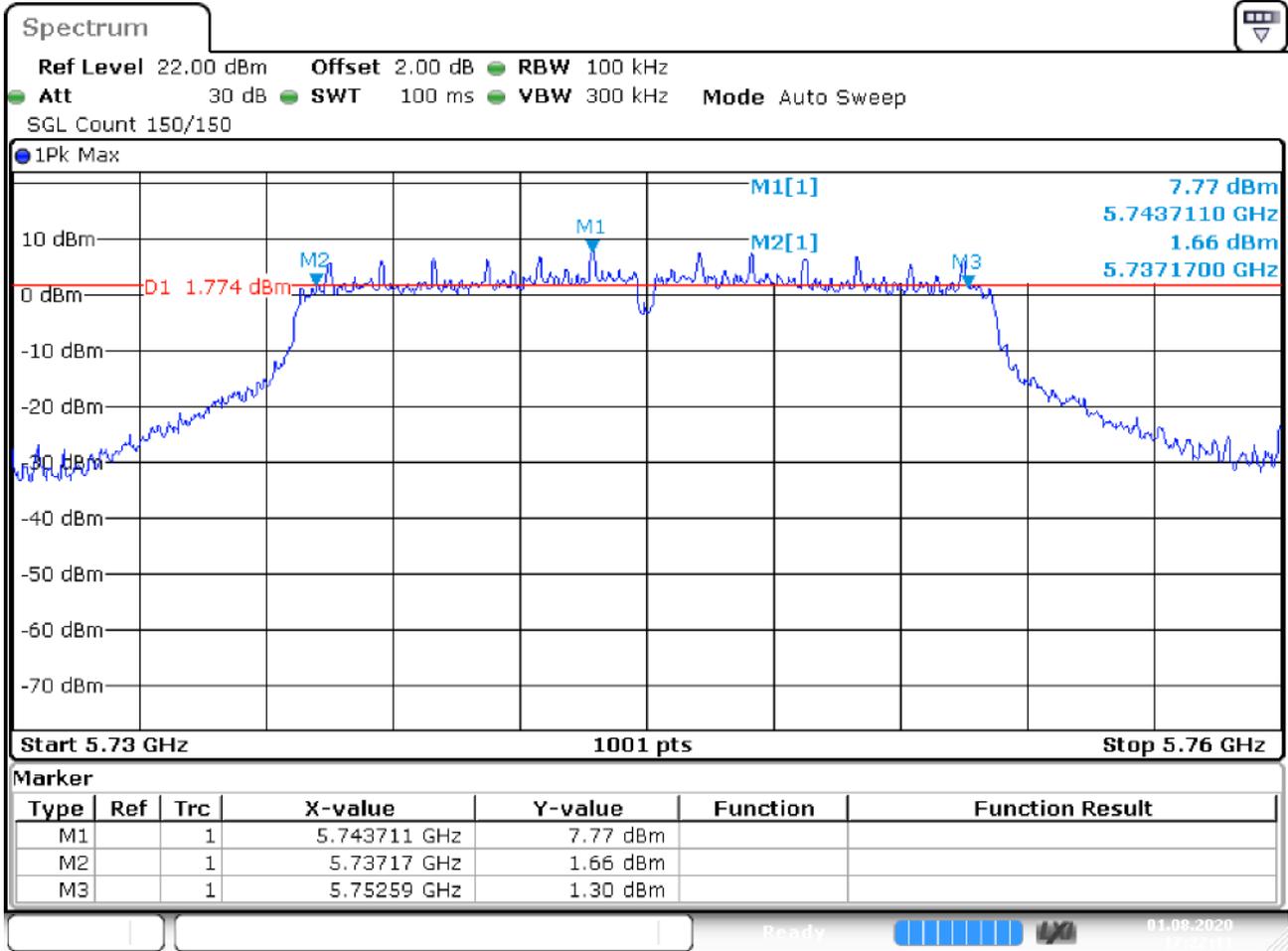
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4.6.2.2 11A20\_CDD\_149 ANT 2



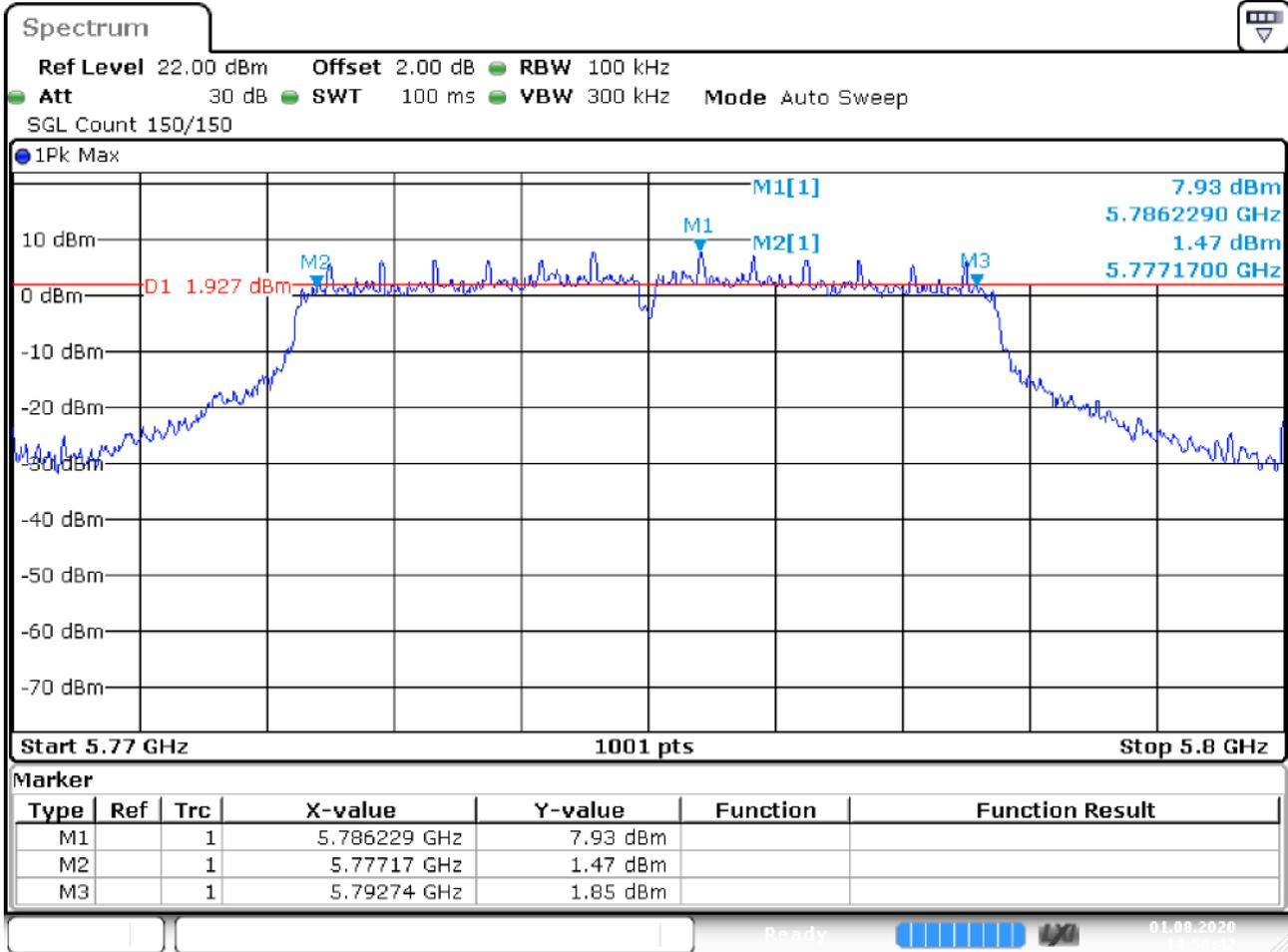
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4.6.2.3 11A20\_CDD\_157 ANT 1

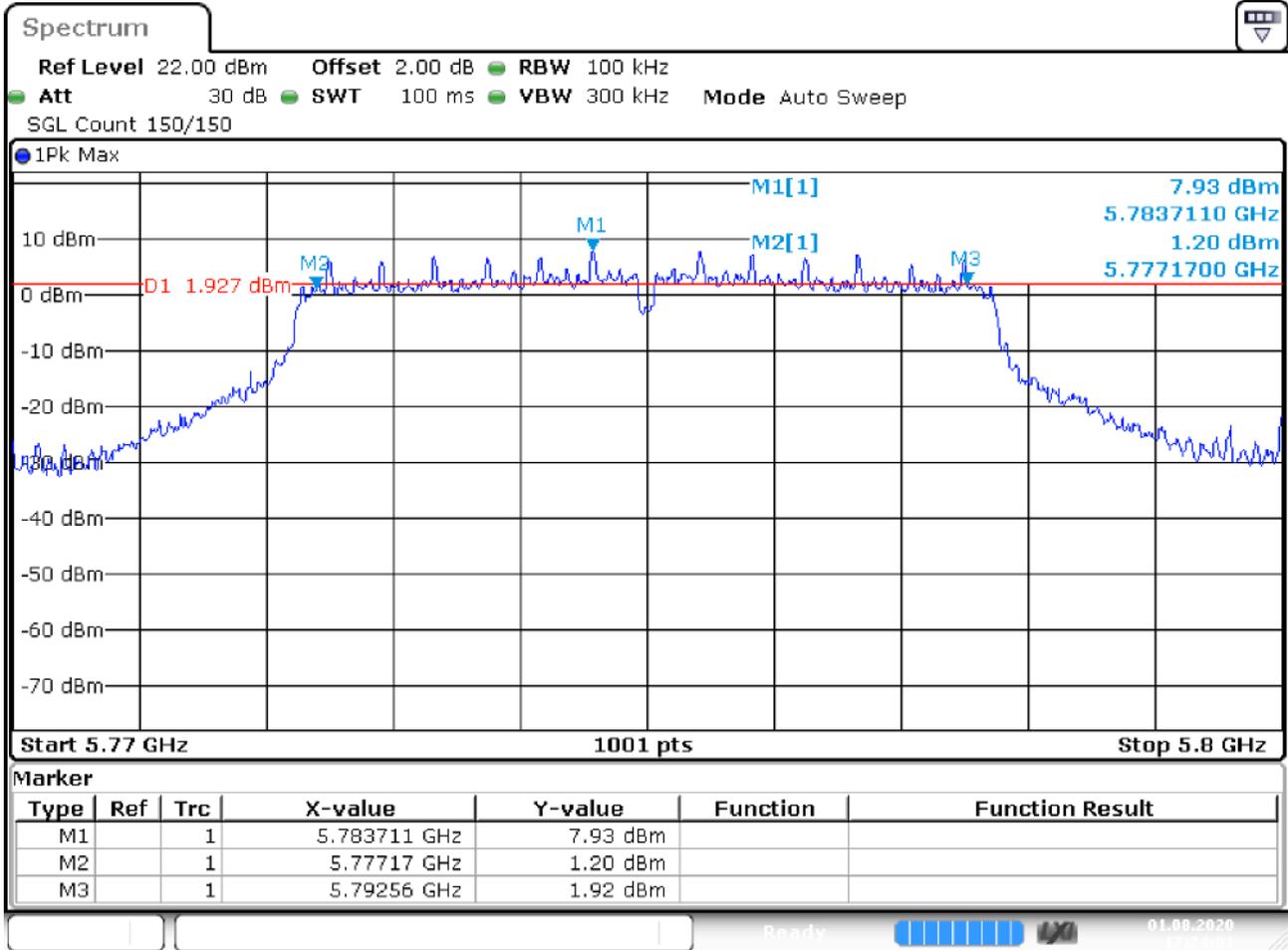


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4.6.2.4 11A20\_CDD\_157 ANT 2

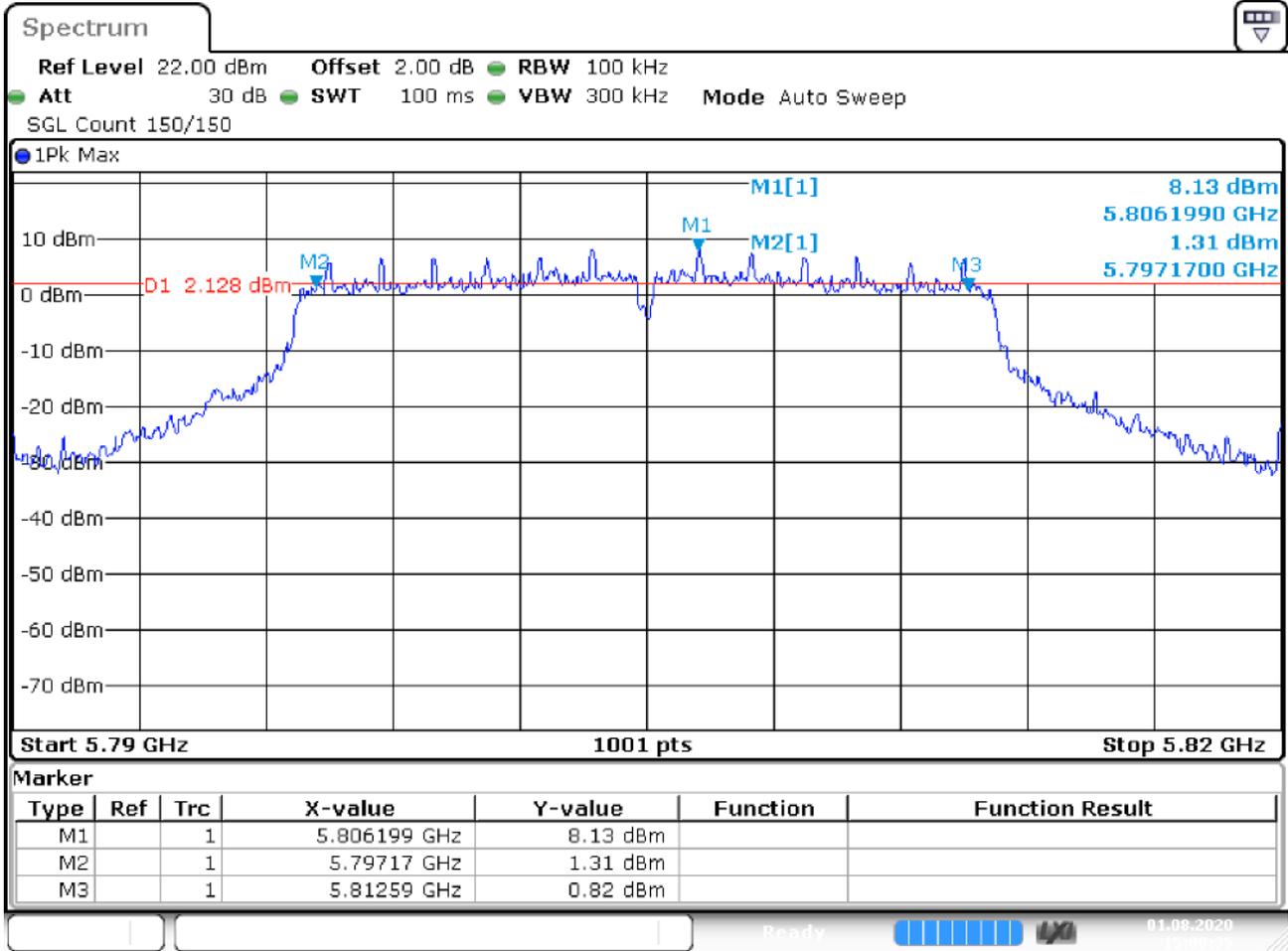


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4.6.2.5 11A20\_CDD\_161 ANT 1



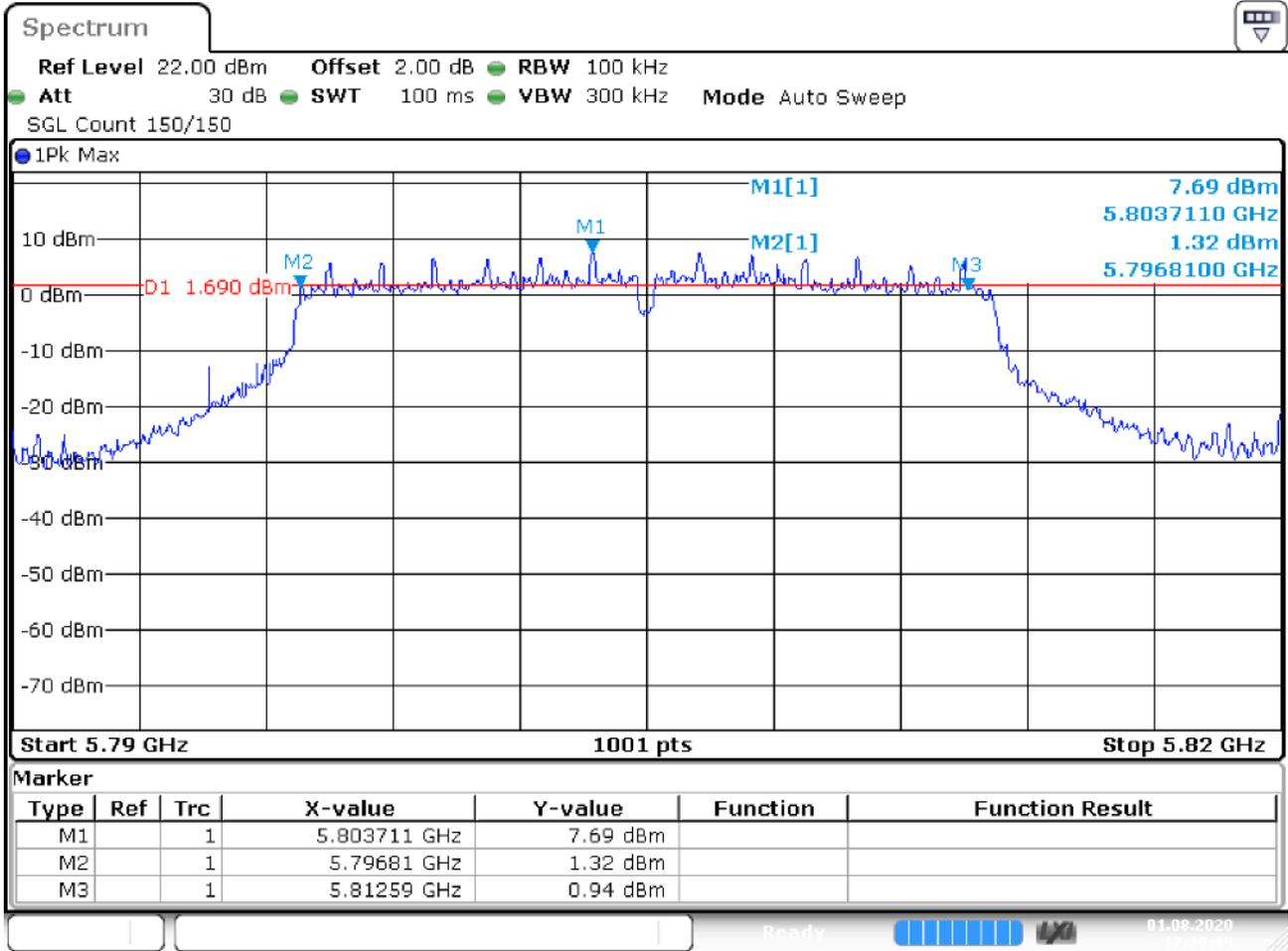
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4.6.2.6 11A20\_CDD\_161 ANT 2



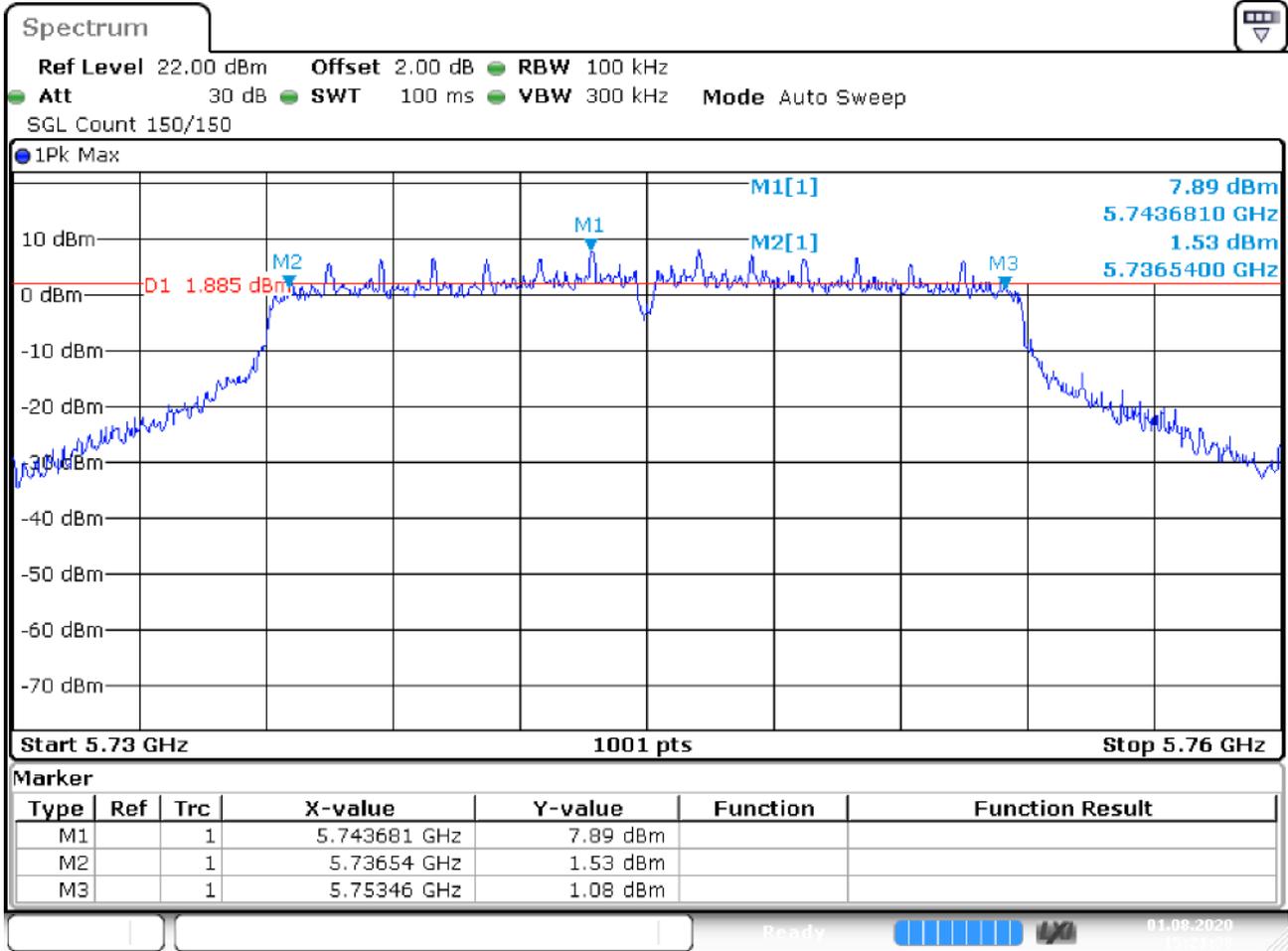
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4.6.2.7 11N20MIMO\_149 ANT 1



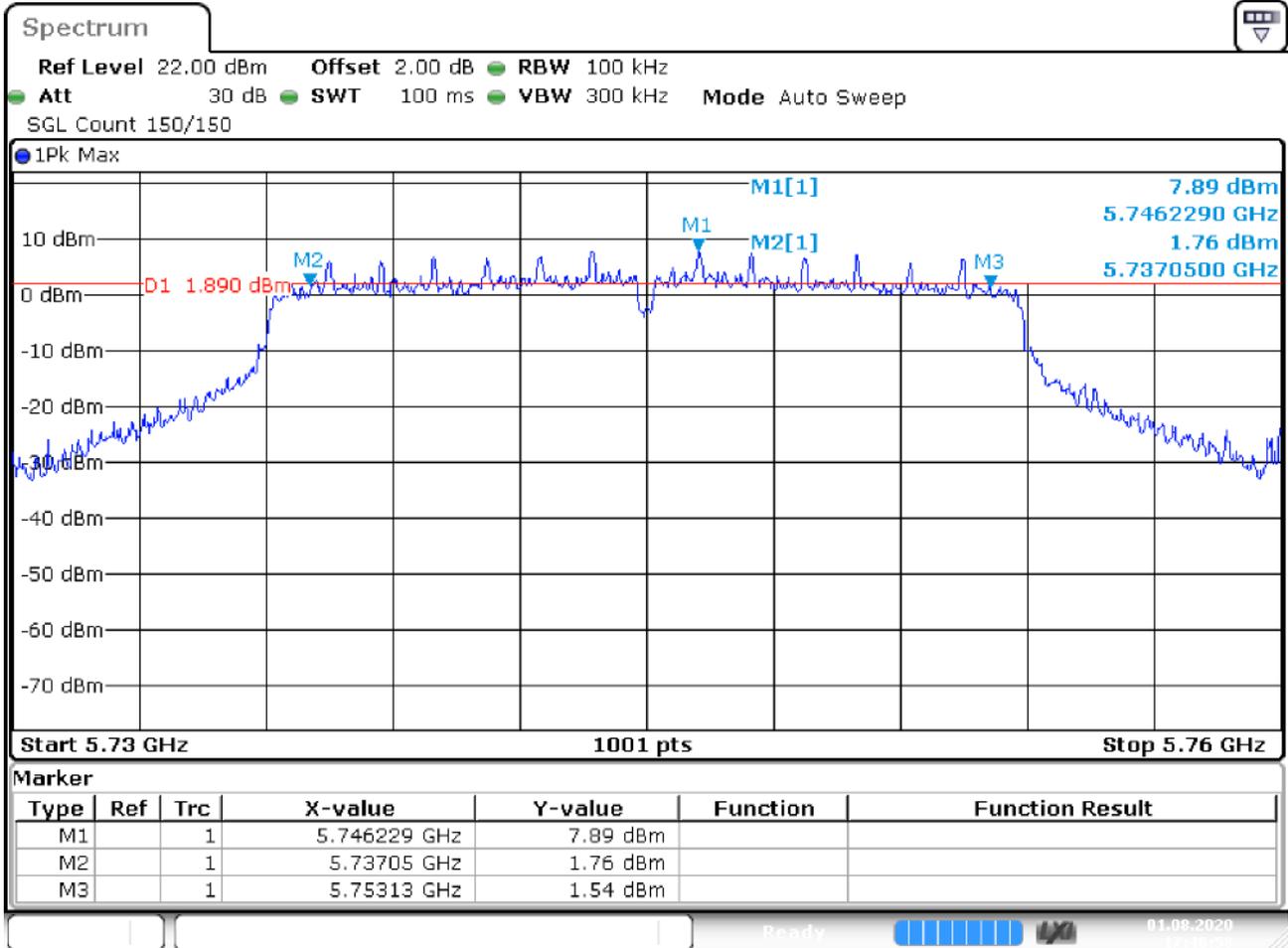
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4.6.2.8 11N20MIMO\_149 ANT 2



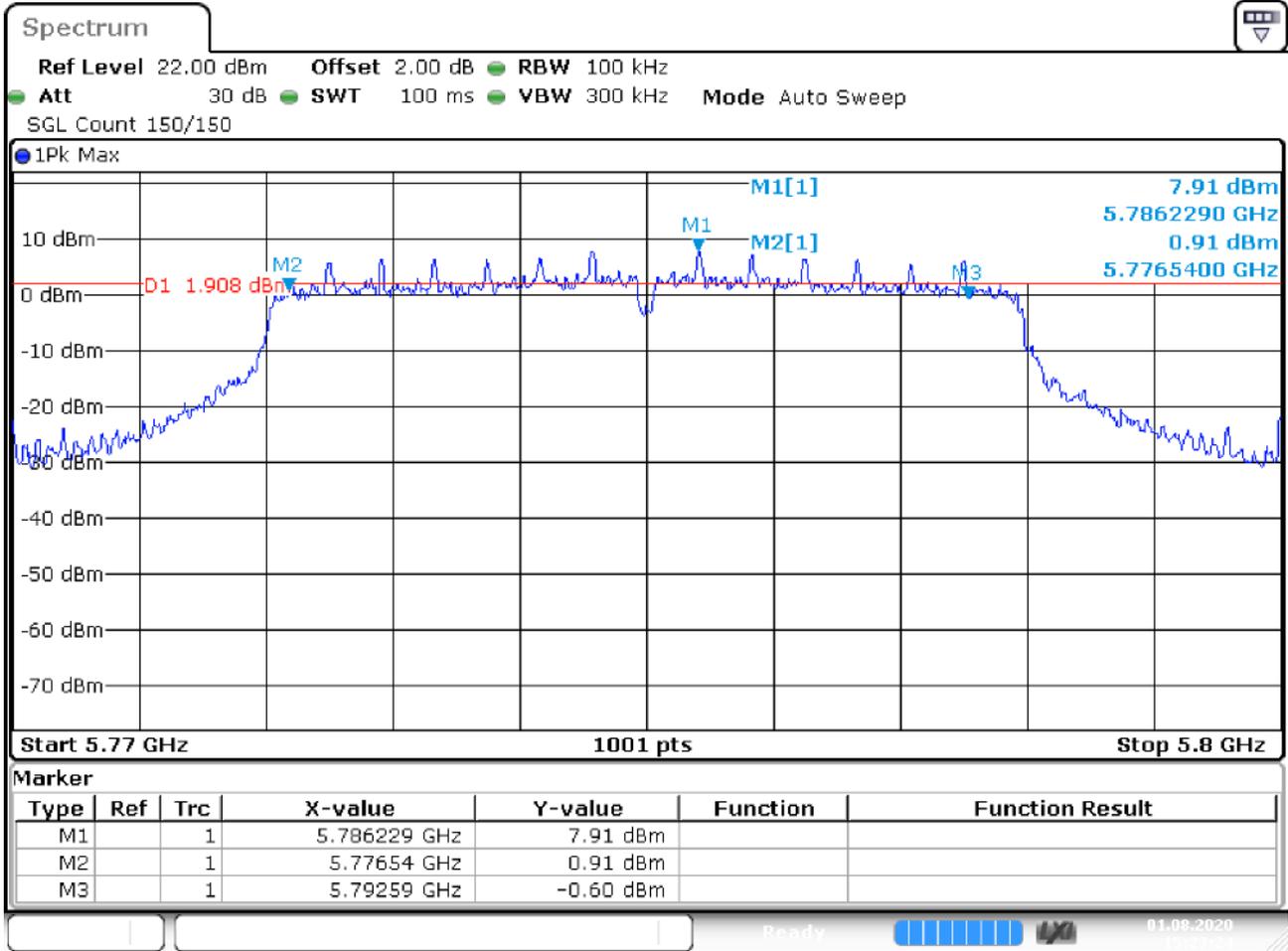
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4.6.2.9 11N20MIMO\_157 ANT 1



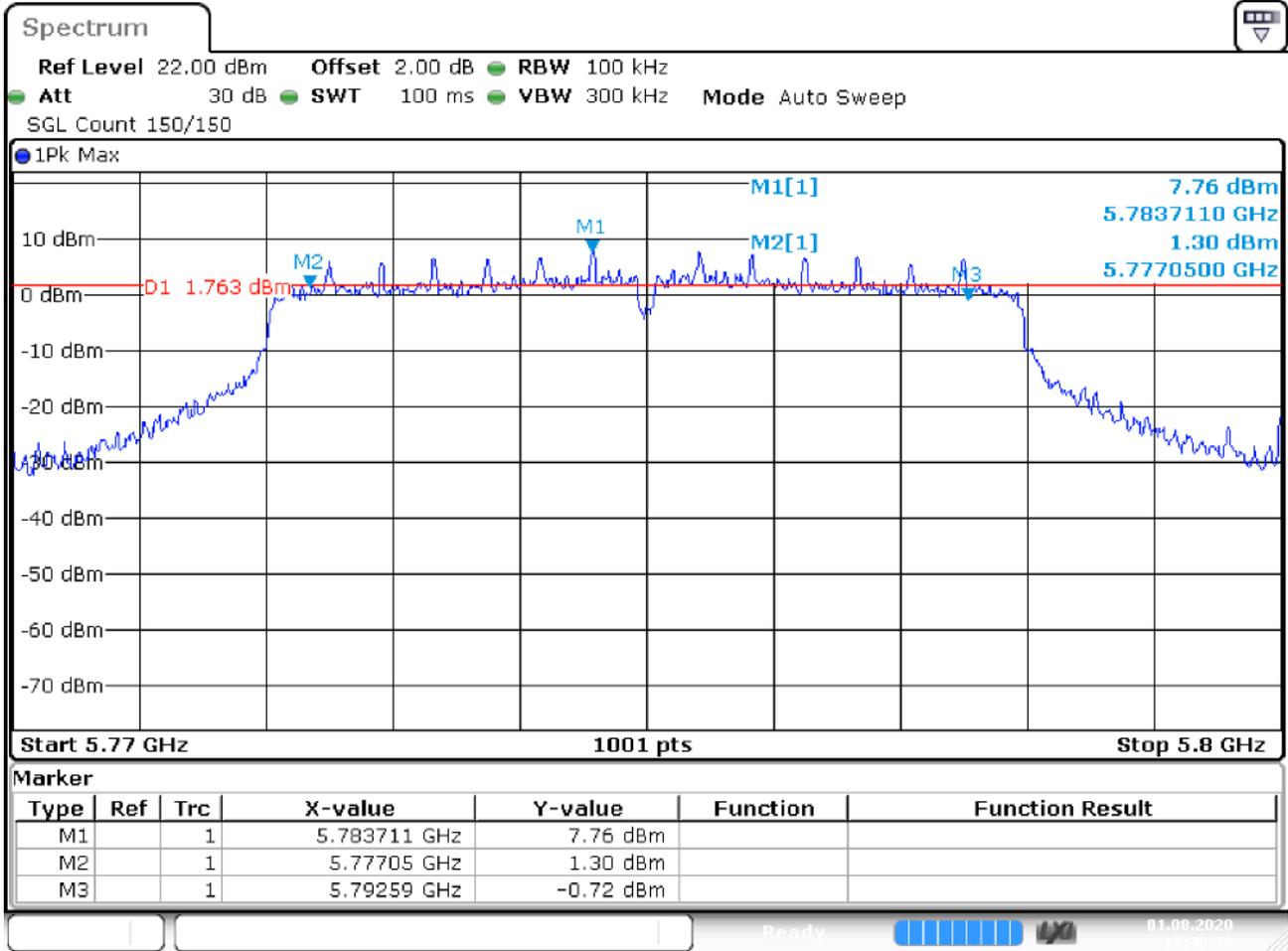
Date: 1.AUG.2020 15:23:25



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4.6.2.10 11N20MIMO\_157 ANT 2



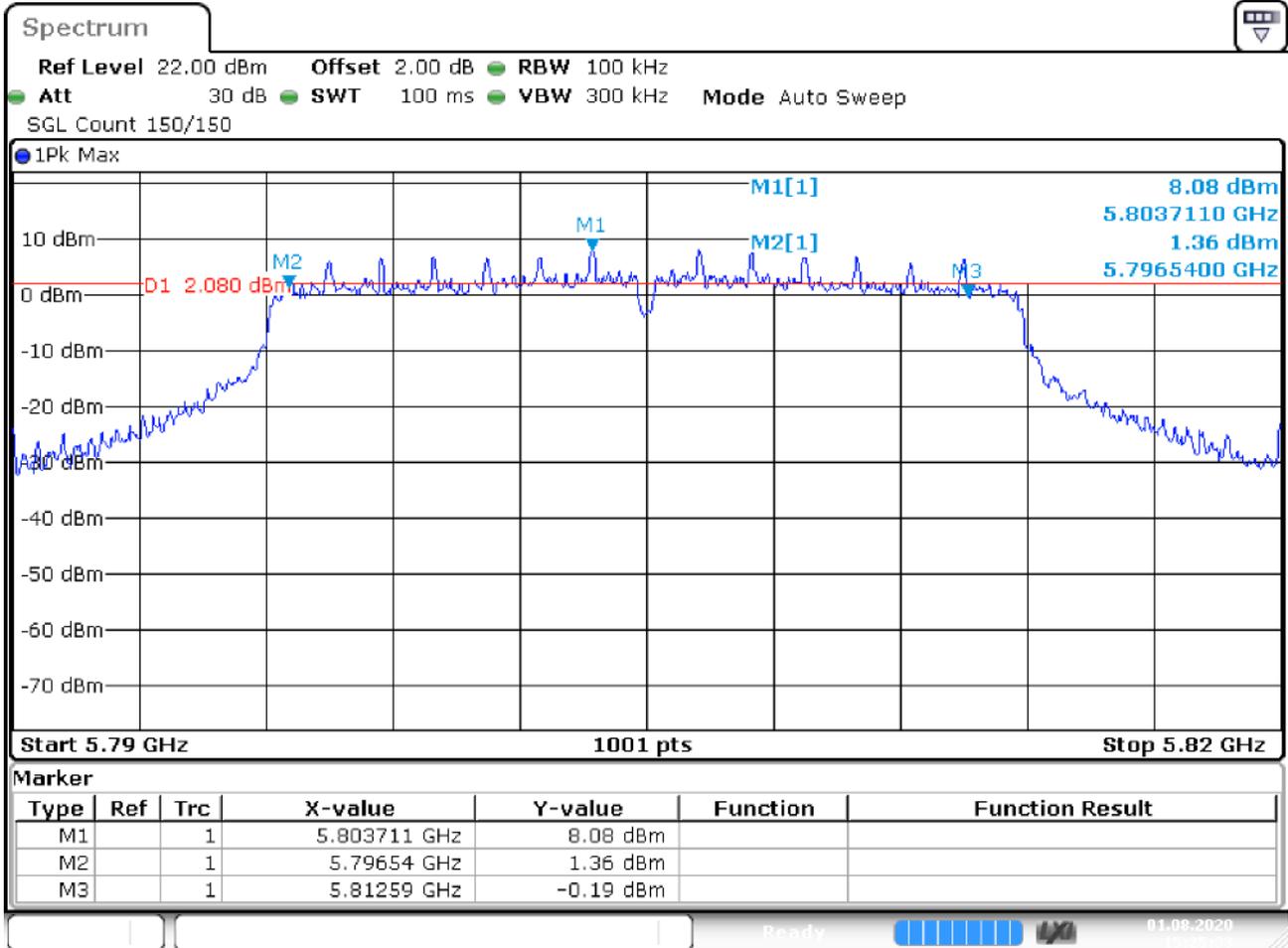
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4.6.2.11 11N20MIMO\_161 ANT 1



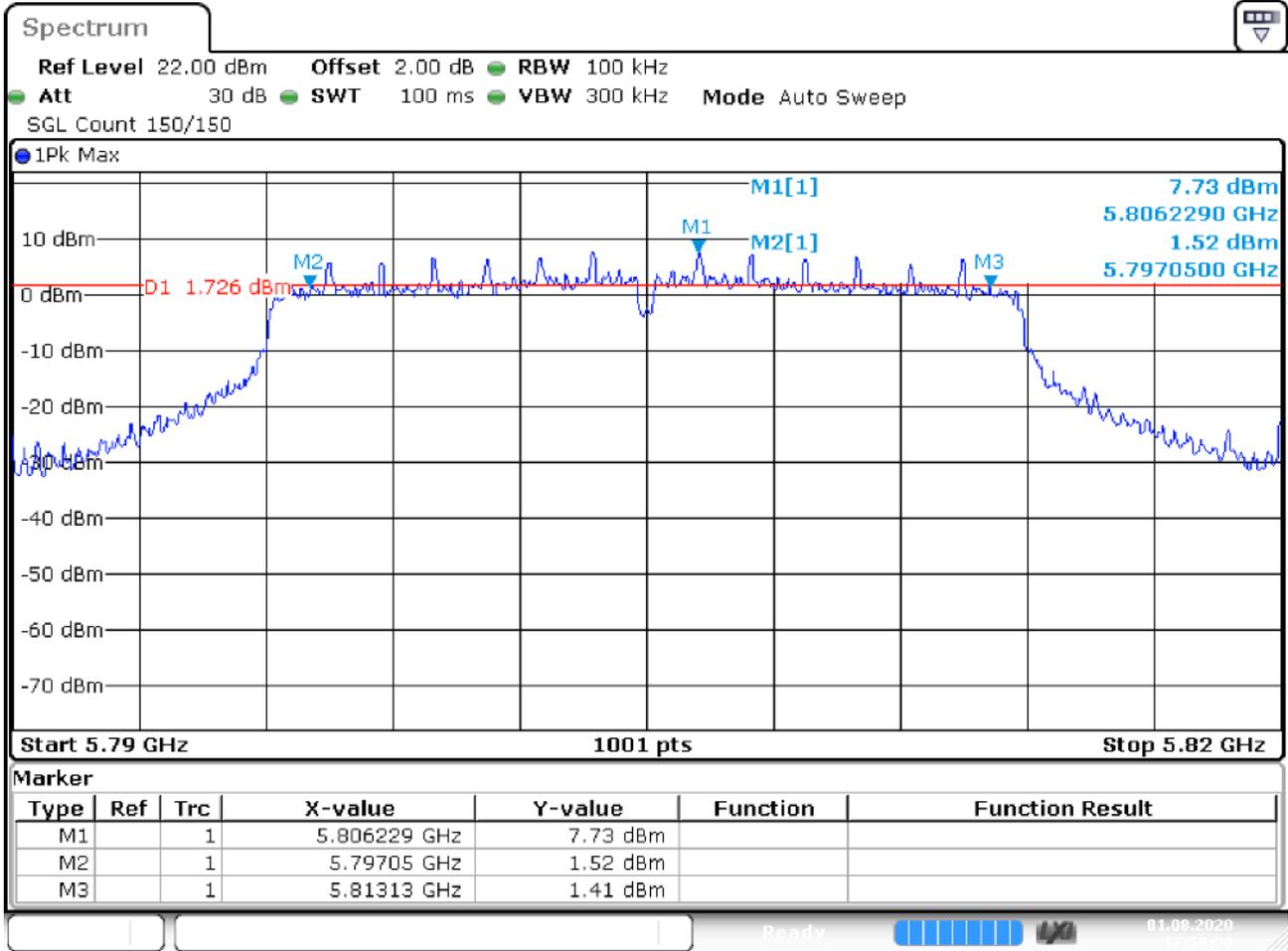
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4.6.2.12 11N20MIMO\_161 ANT 2



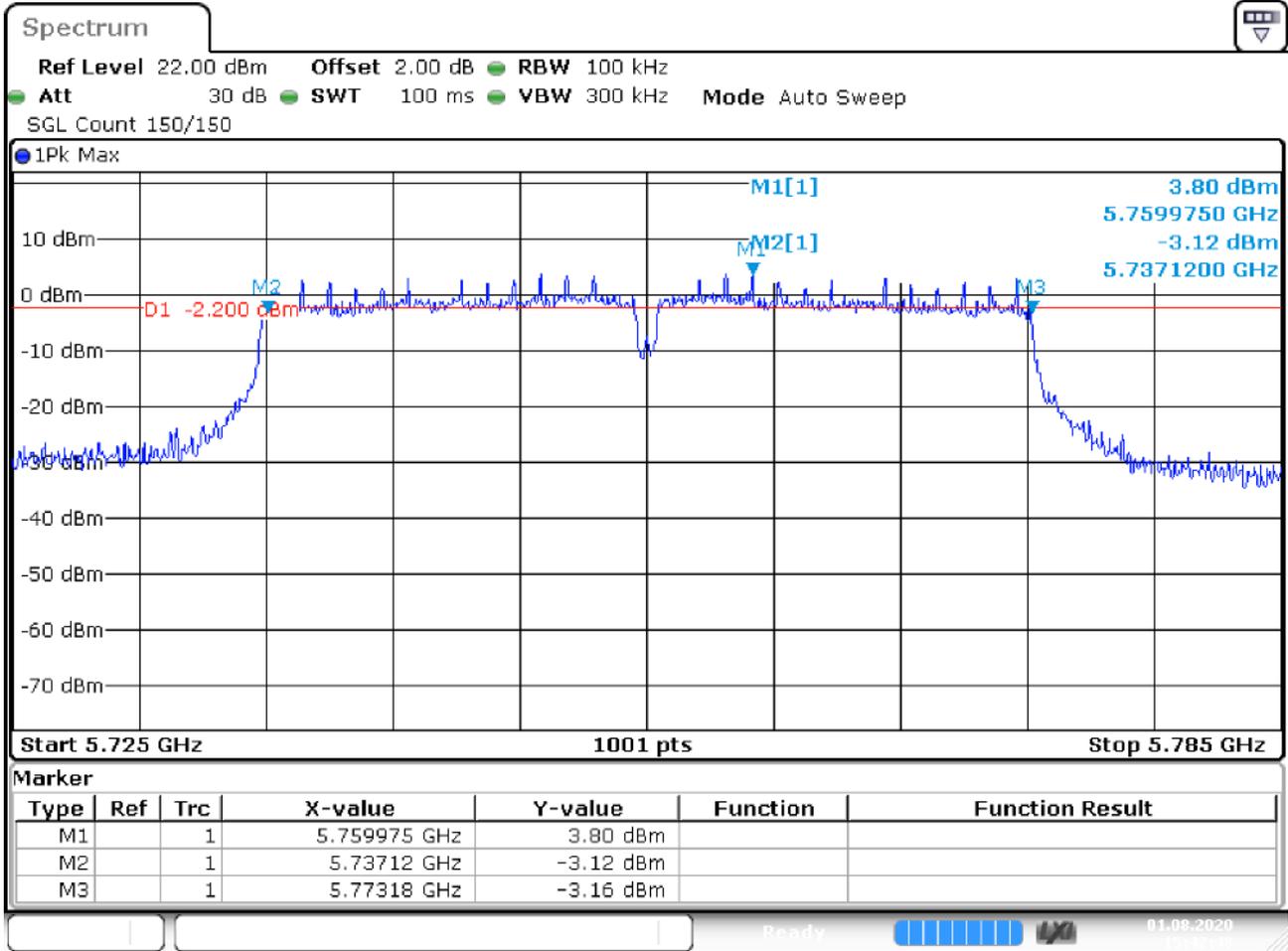
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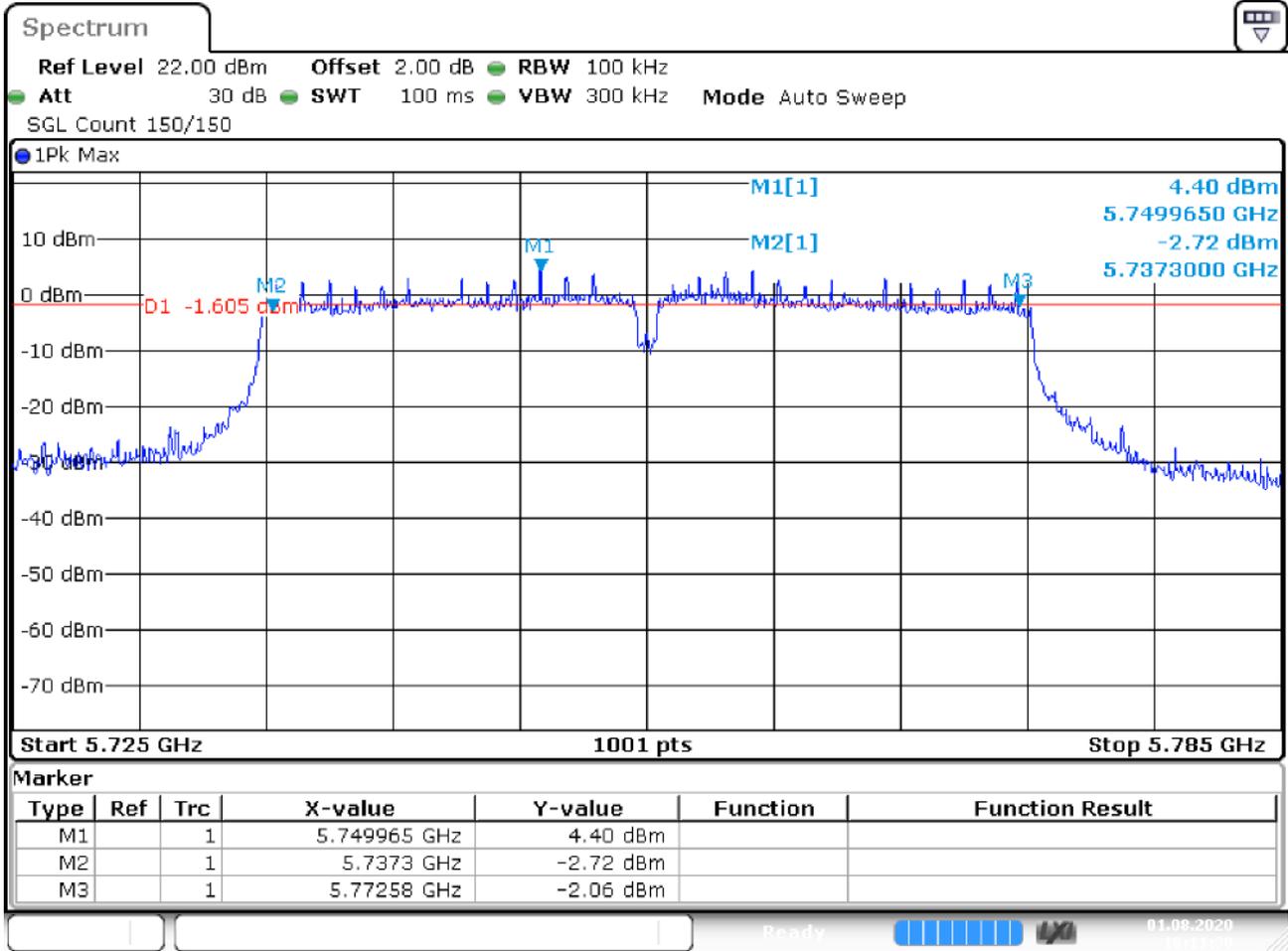
4.6.2.13 11N40MIMO\_151 ANT 1



Date: 1.AUG.2020 15:42:49



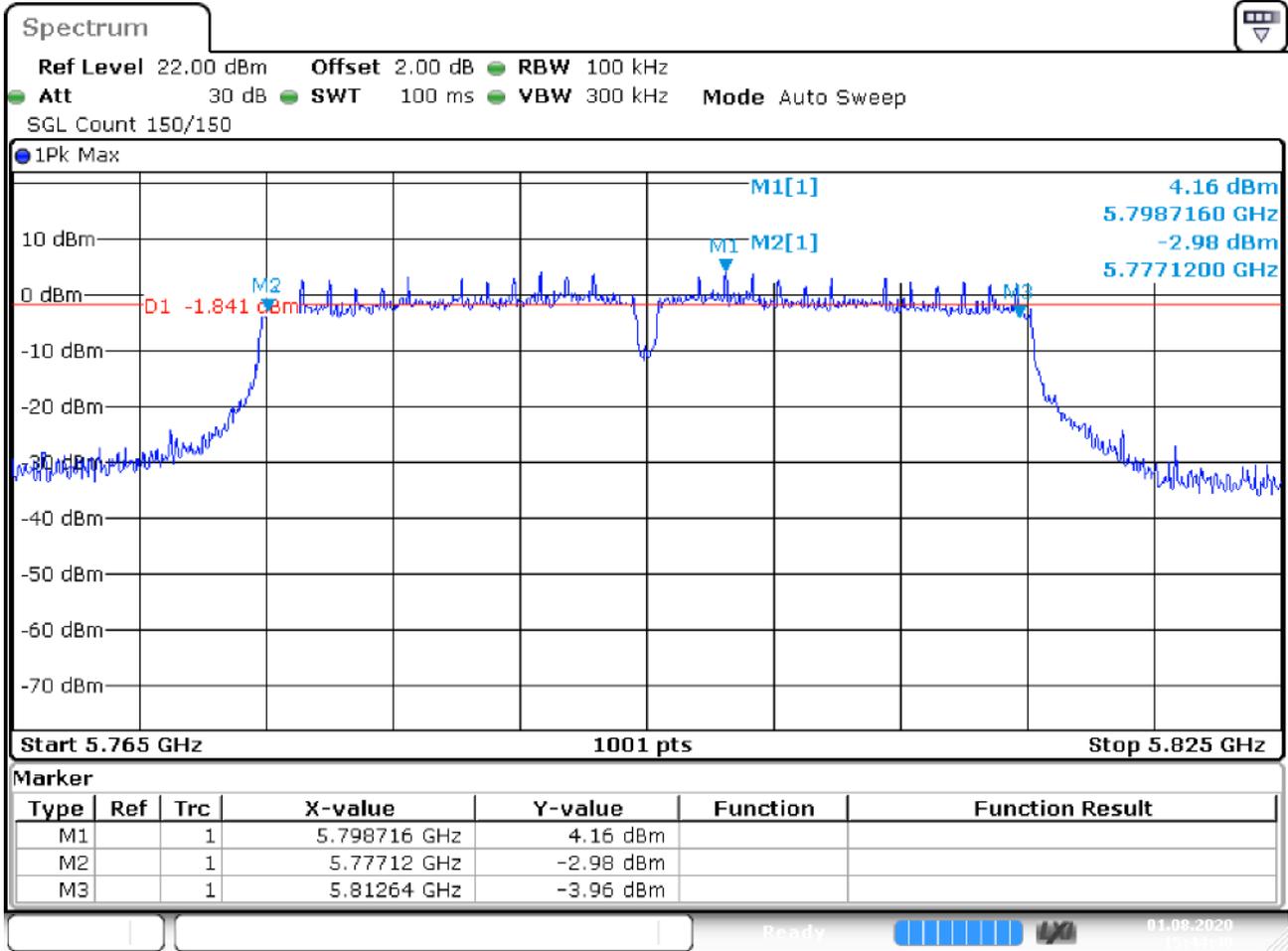
4.6.2.14 11N40MIMO\_151 ANT 2



Date: 1.AUG.2020 18:11:30



4.6.2.15 11N40MIMO\_159 ANT 1

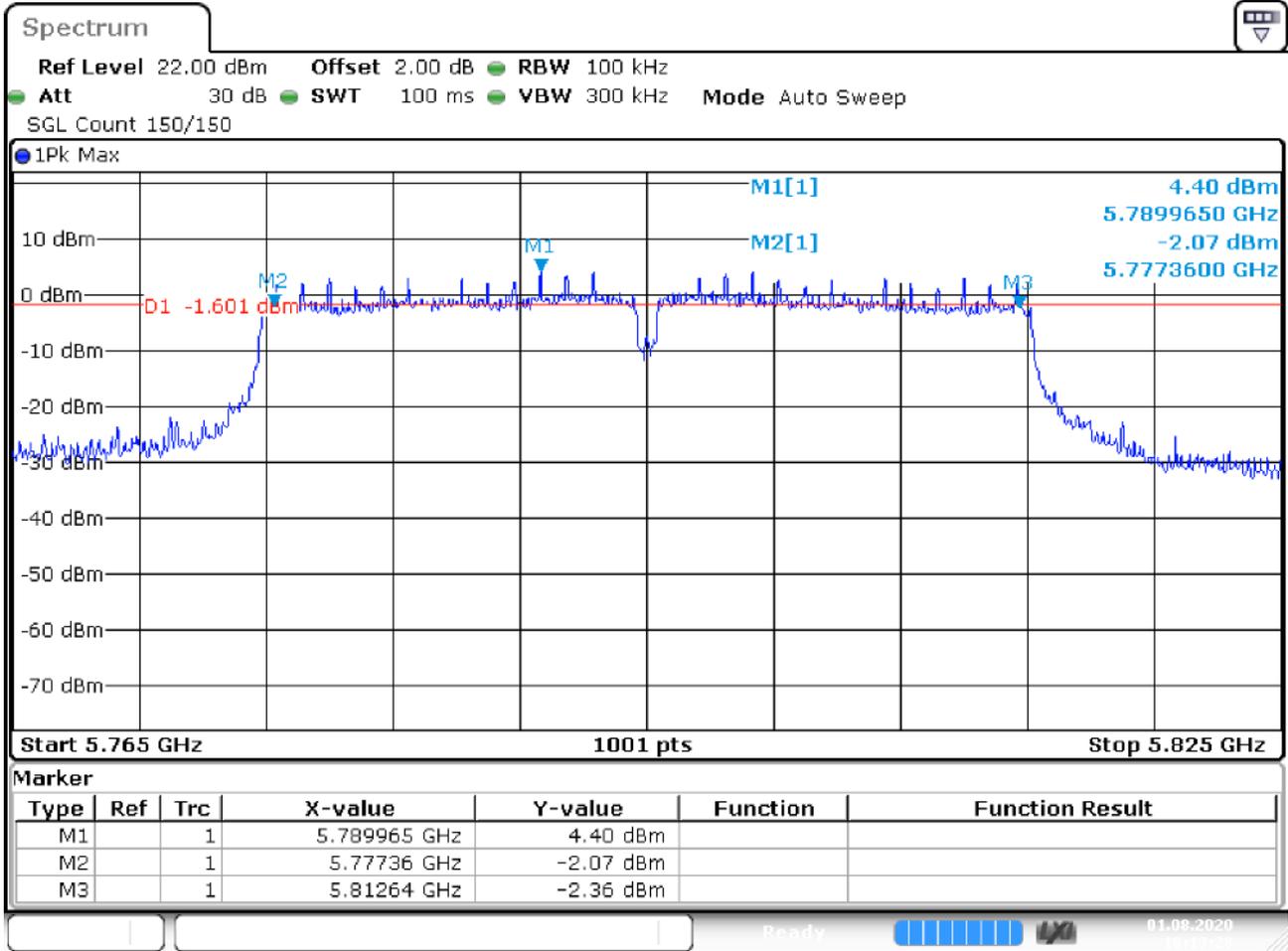


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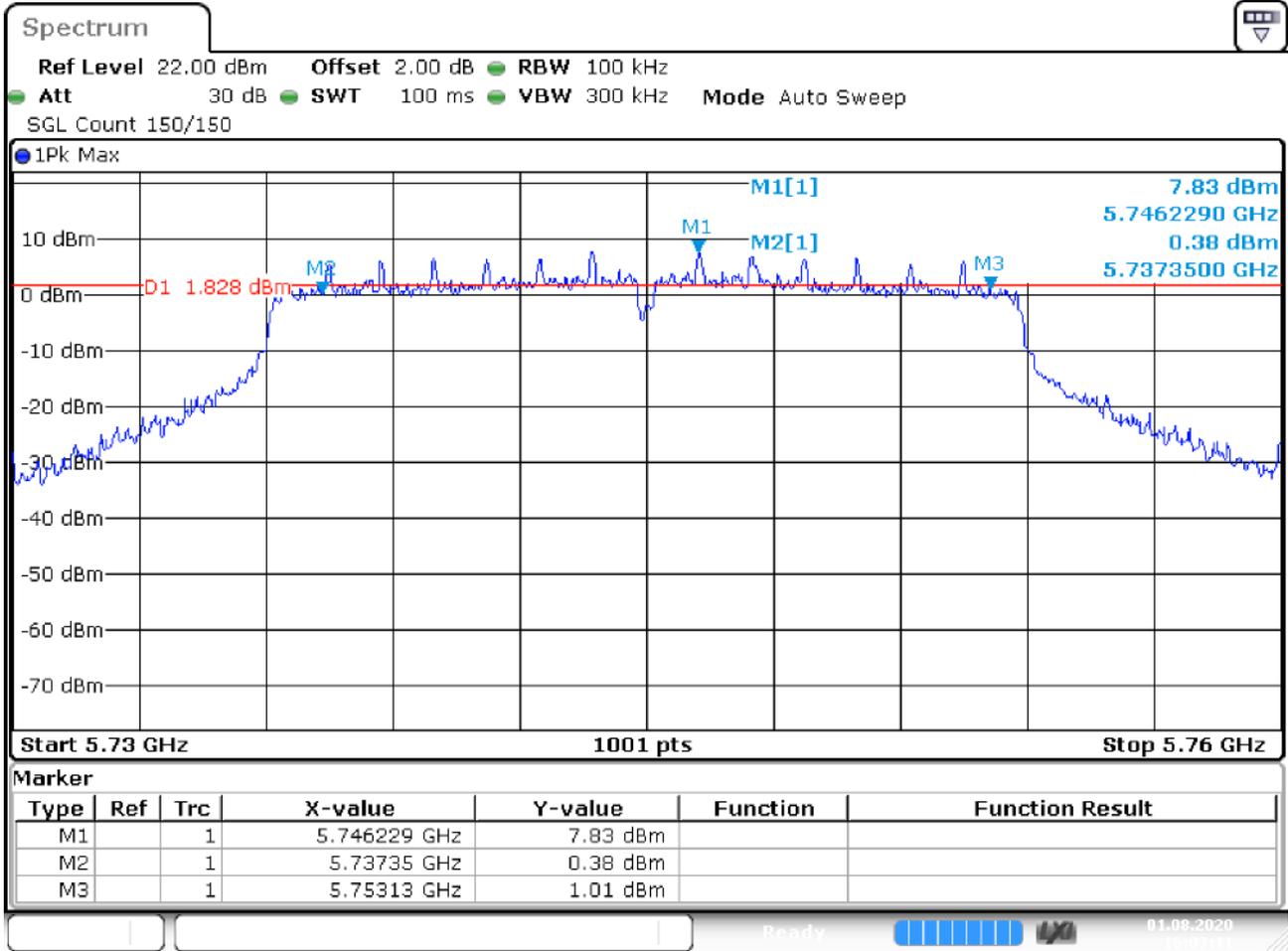
4.6.2.16 11N40MIMO\_159 ANT 2



Date: 1.AUG.2020 18:13:29



4.6.2.17 11AC20MIMO\_149 ANT 1



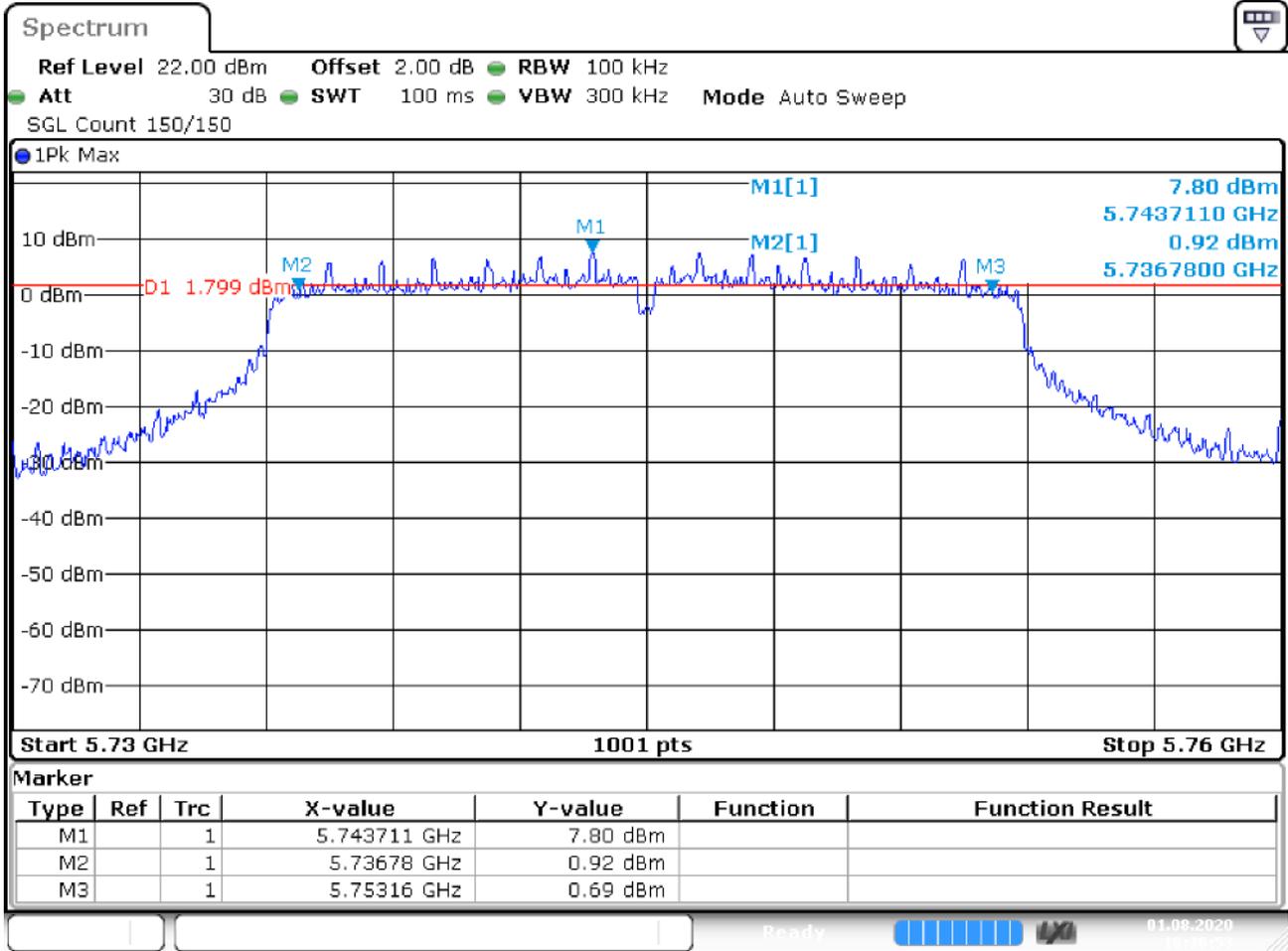
Date: 1.AUG.2020 16:03:11



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4.6.2.18 11AC20MIMO\_149 ANT 2



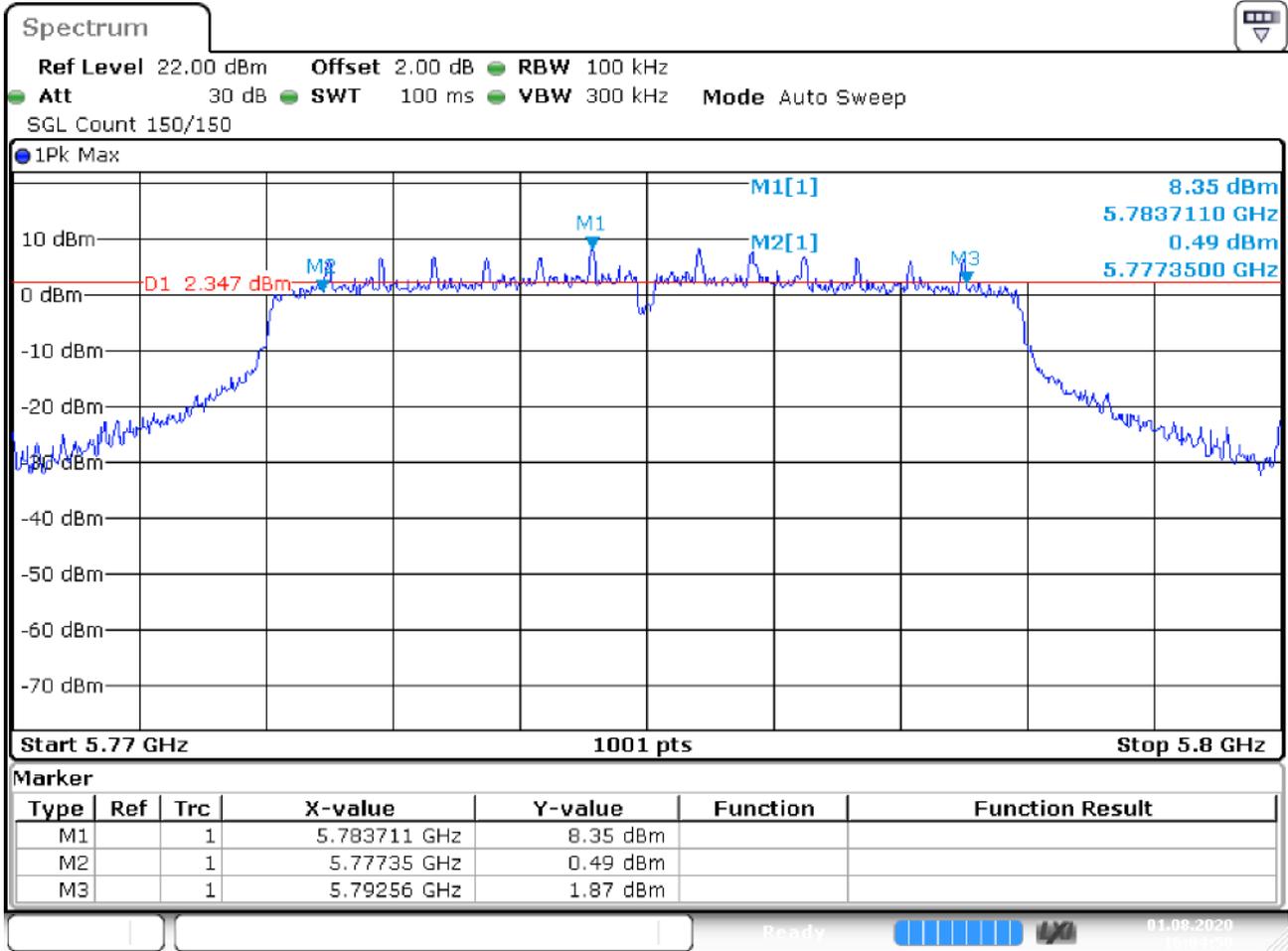
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4.6.2.19 11AC20MIMO\_157 ANT 1



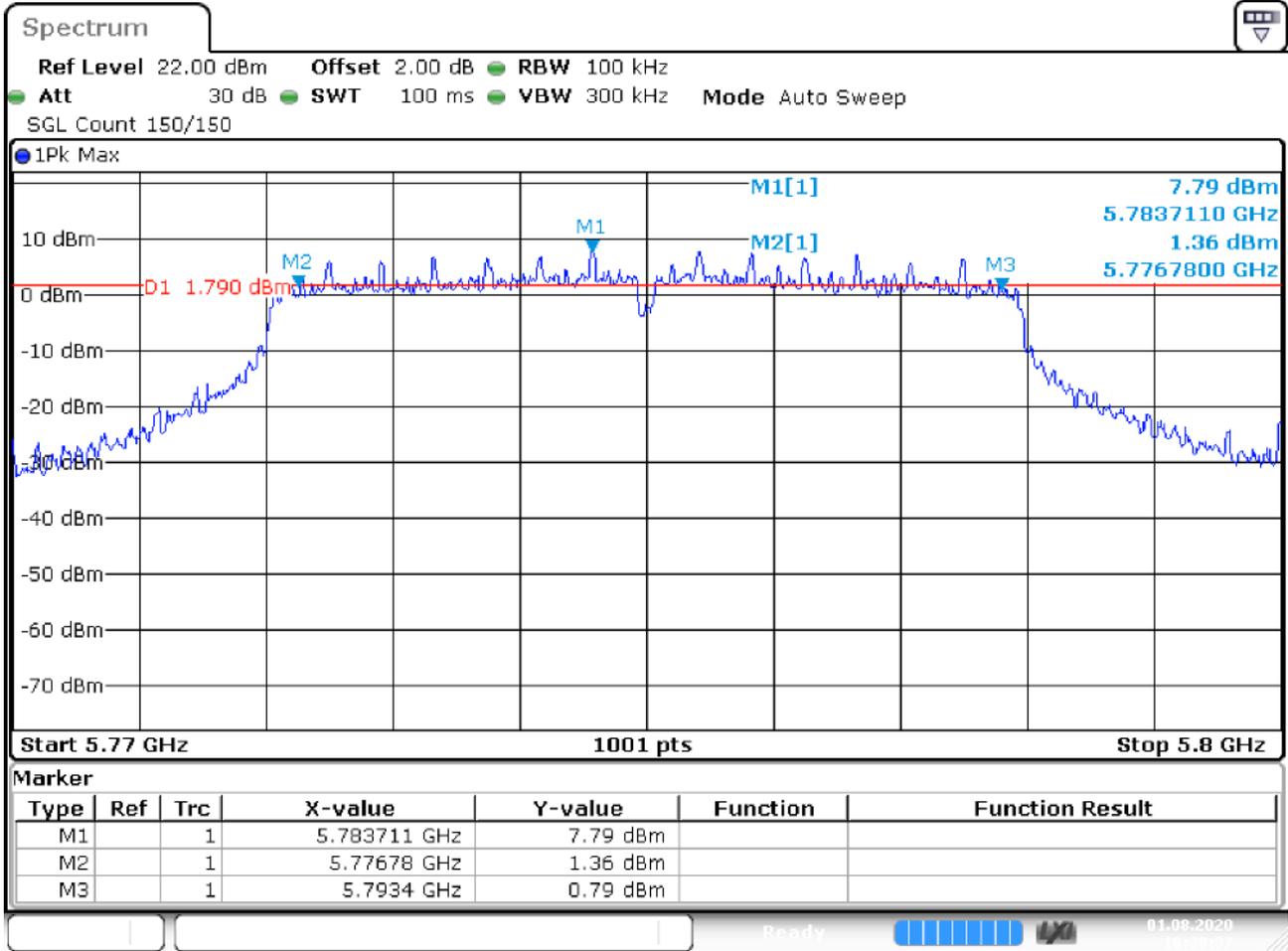
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**4.6.2.20 11AC20MIMO\_157 ANT 2**



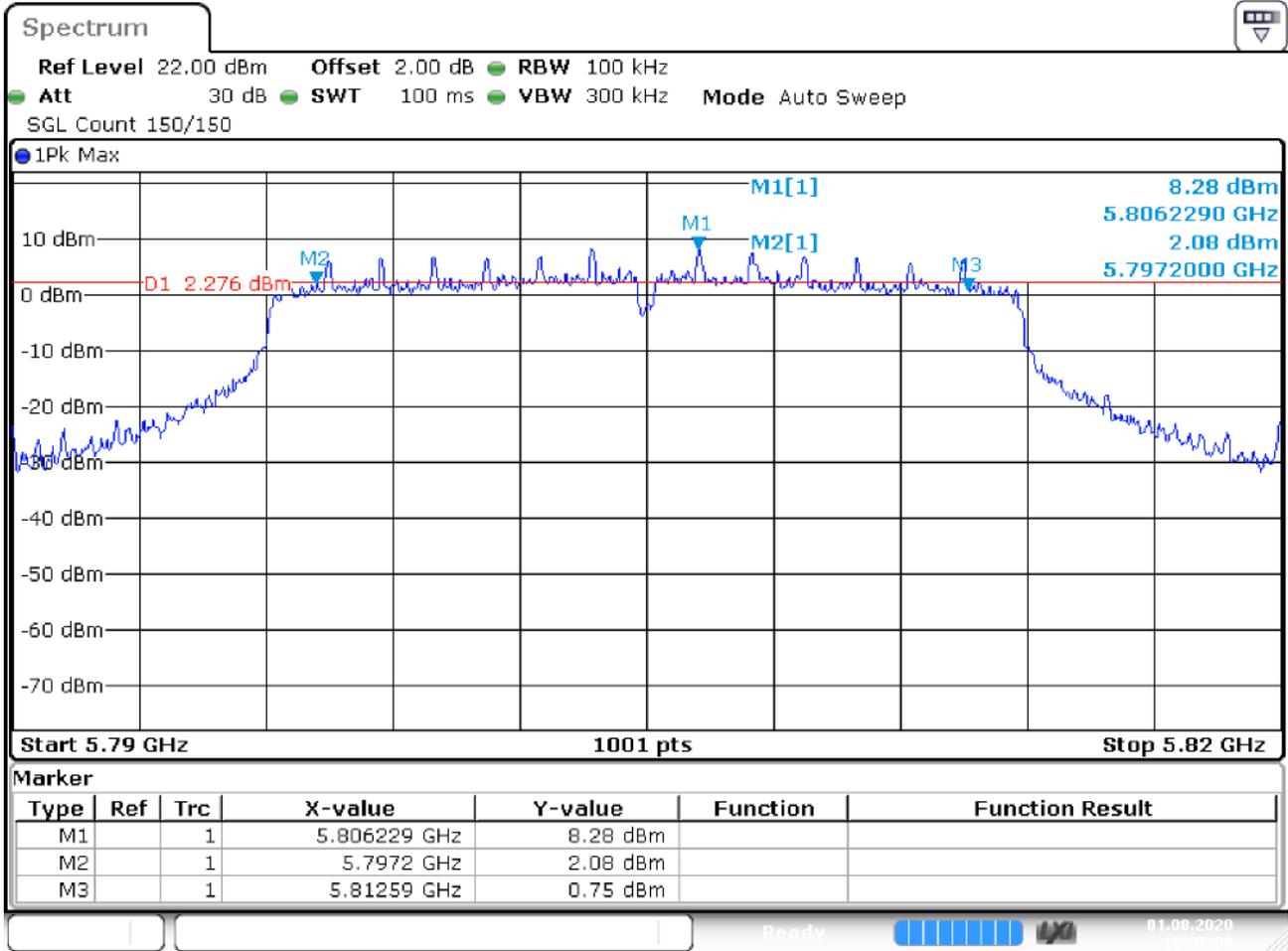
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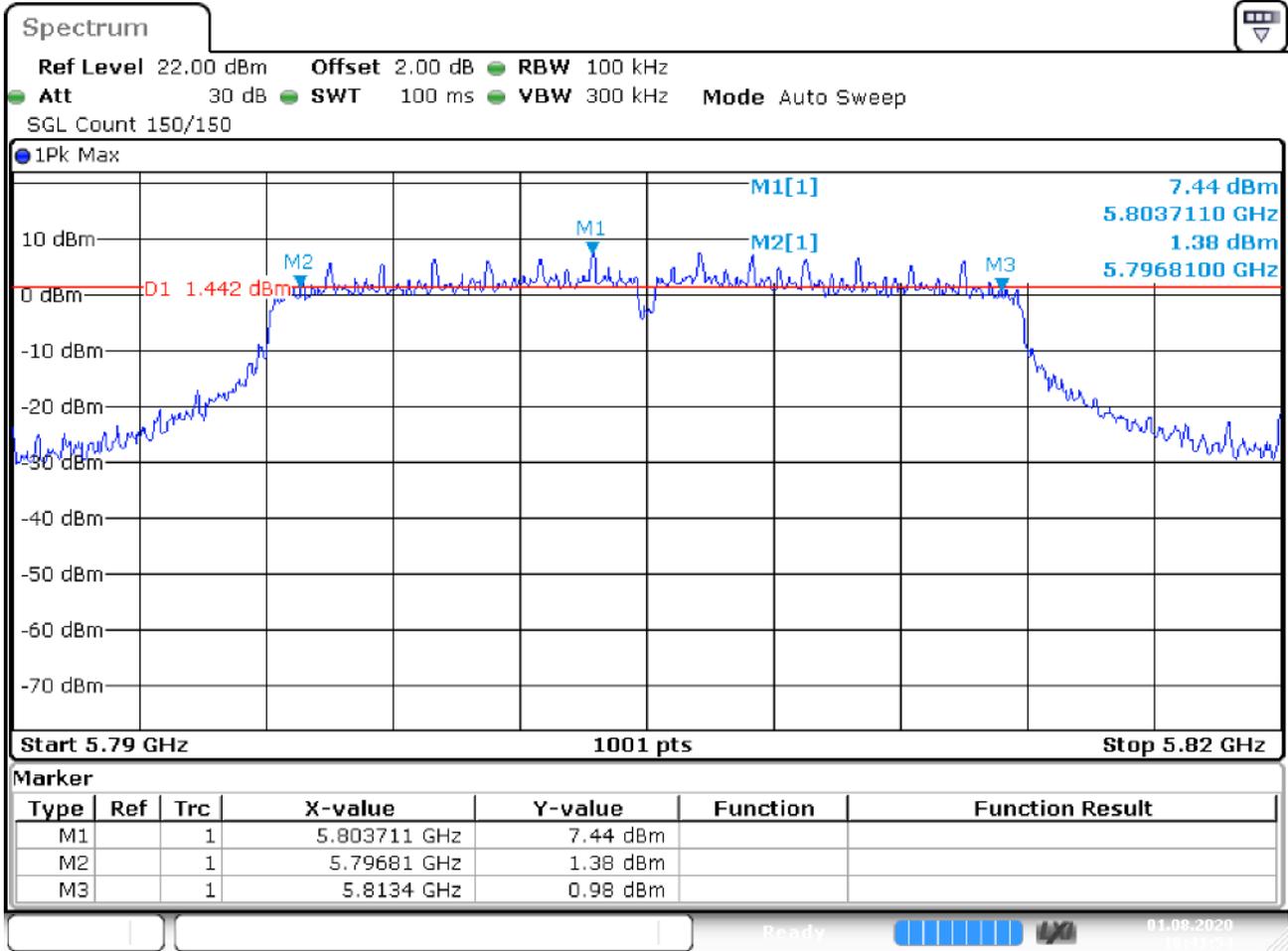
4.6.2.21 11AC20MIMO\_161 ANT 1



Date: 1.AUG.2020 16:07:10



4.6.2.22 11AC20MIMO\_161 ANT 2



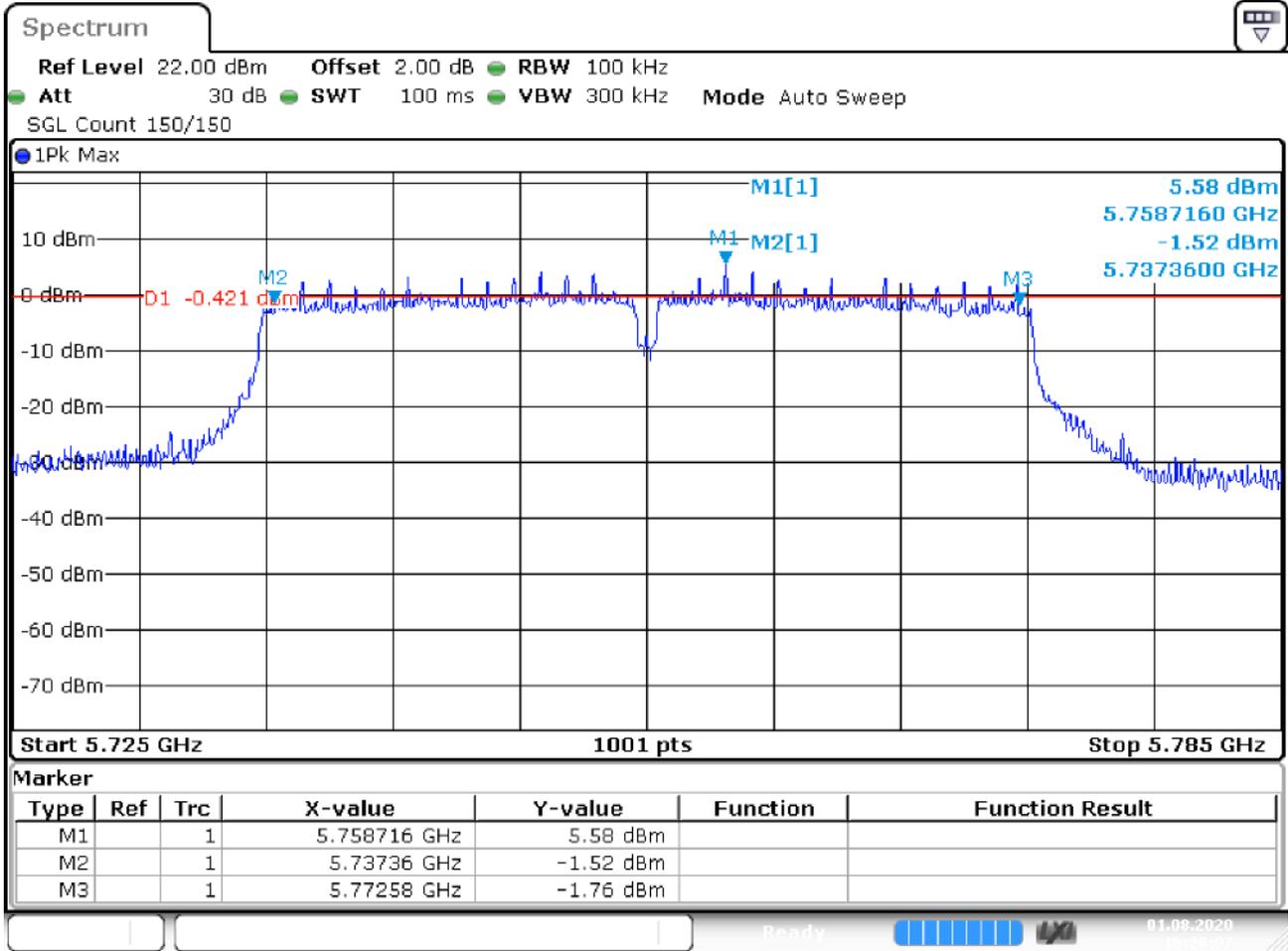
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4.6.2.23 11AC40MIMO\_151 ANT 1



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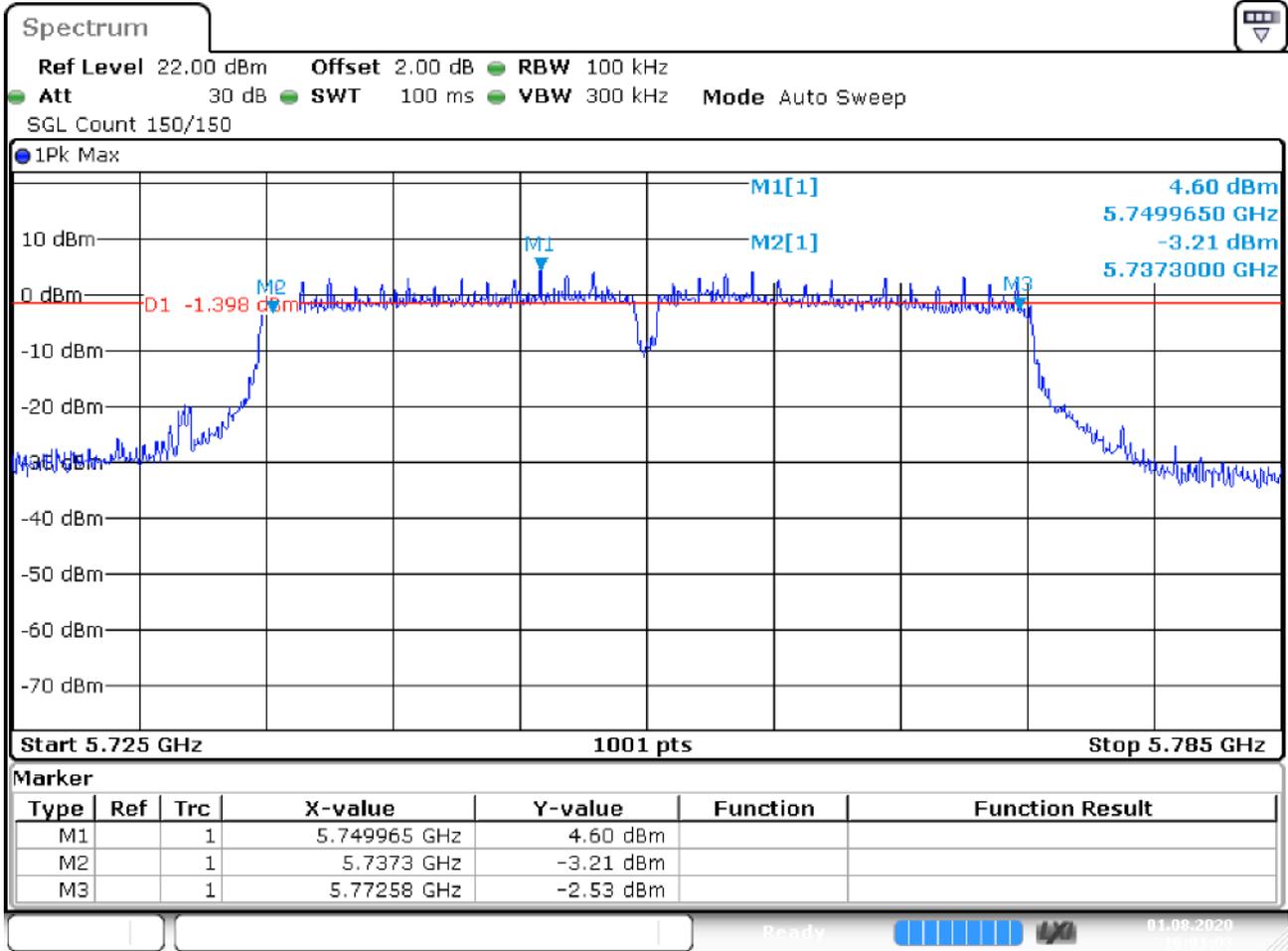


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4.6.2.24 11AC40MIMO\_151 ANT 2



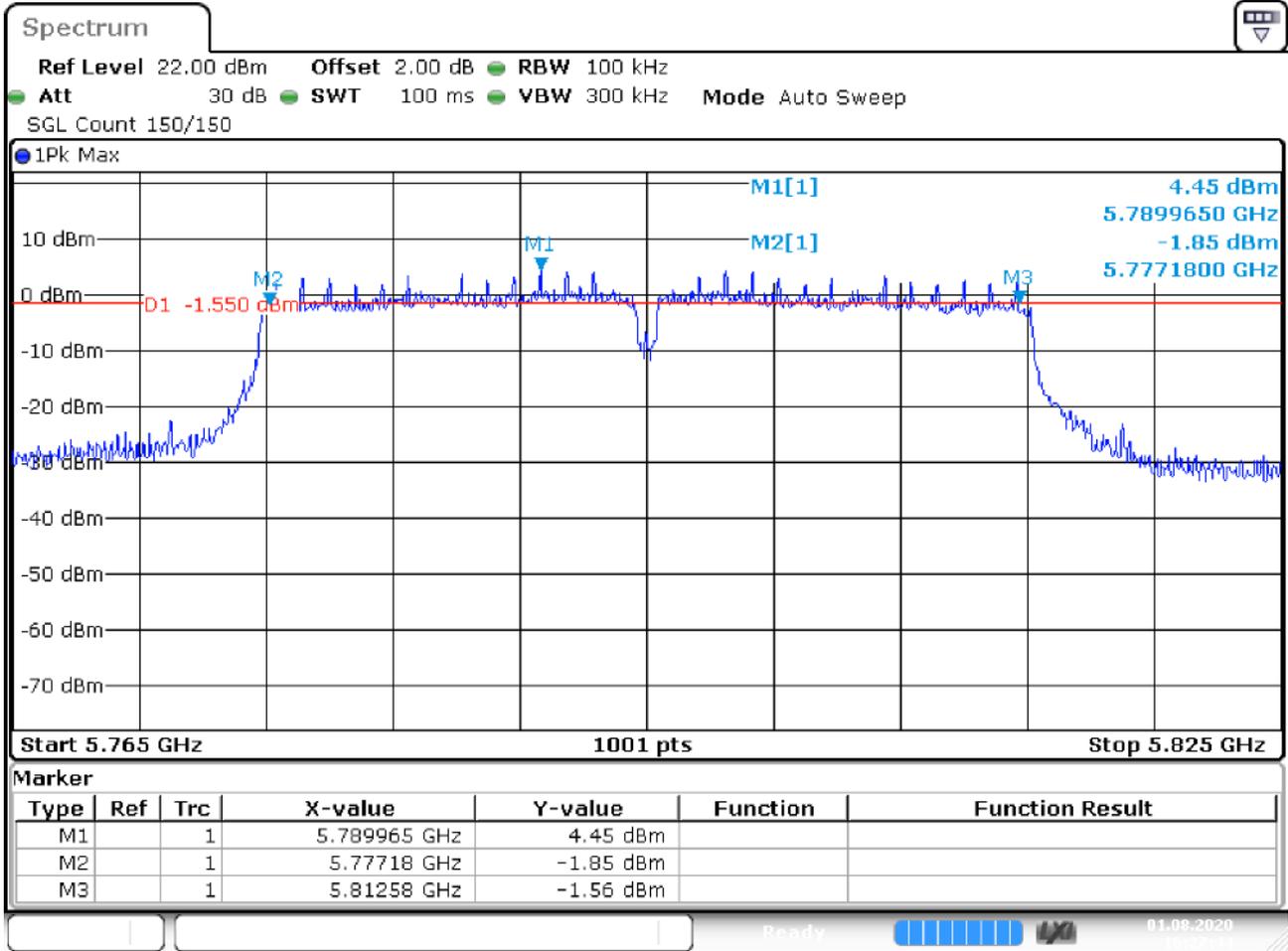
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4.6.2.25 11AC40MIMO\_159 ANT 1

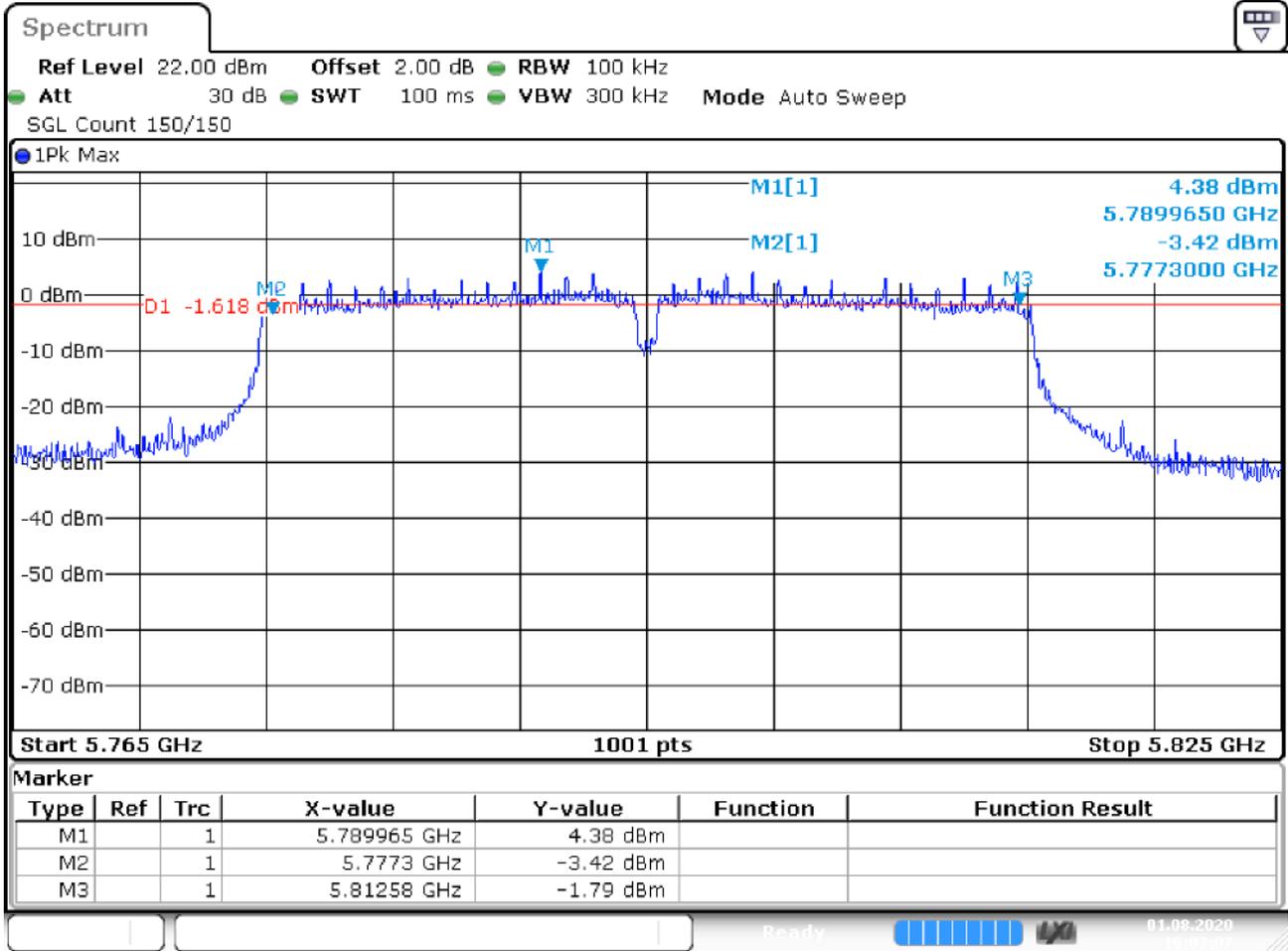


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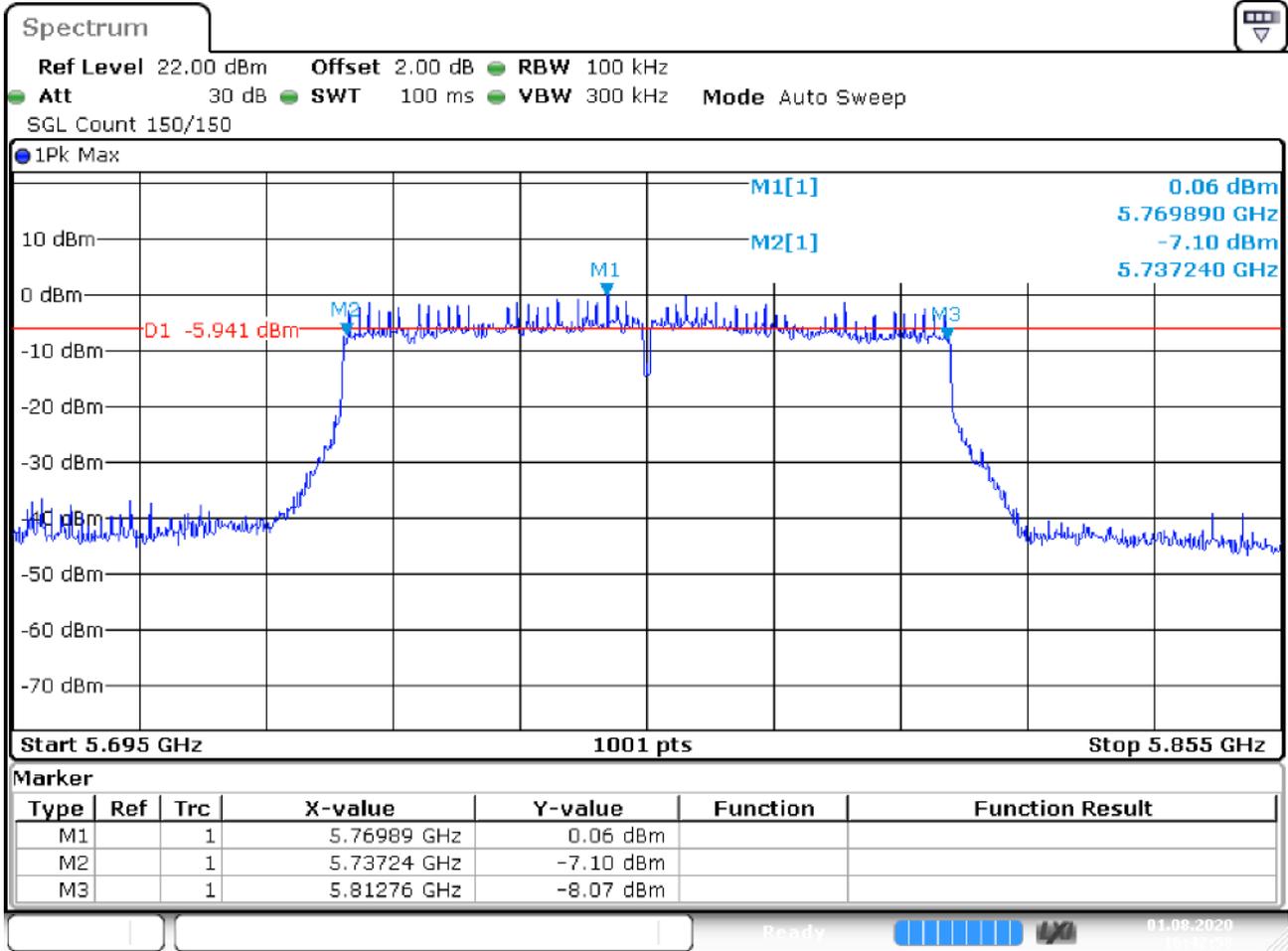
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Date: 1.AUG.2020 19:03:08



4.6.2.27 11AC80MIMO\_155 ANT 1



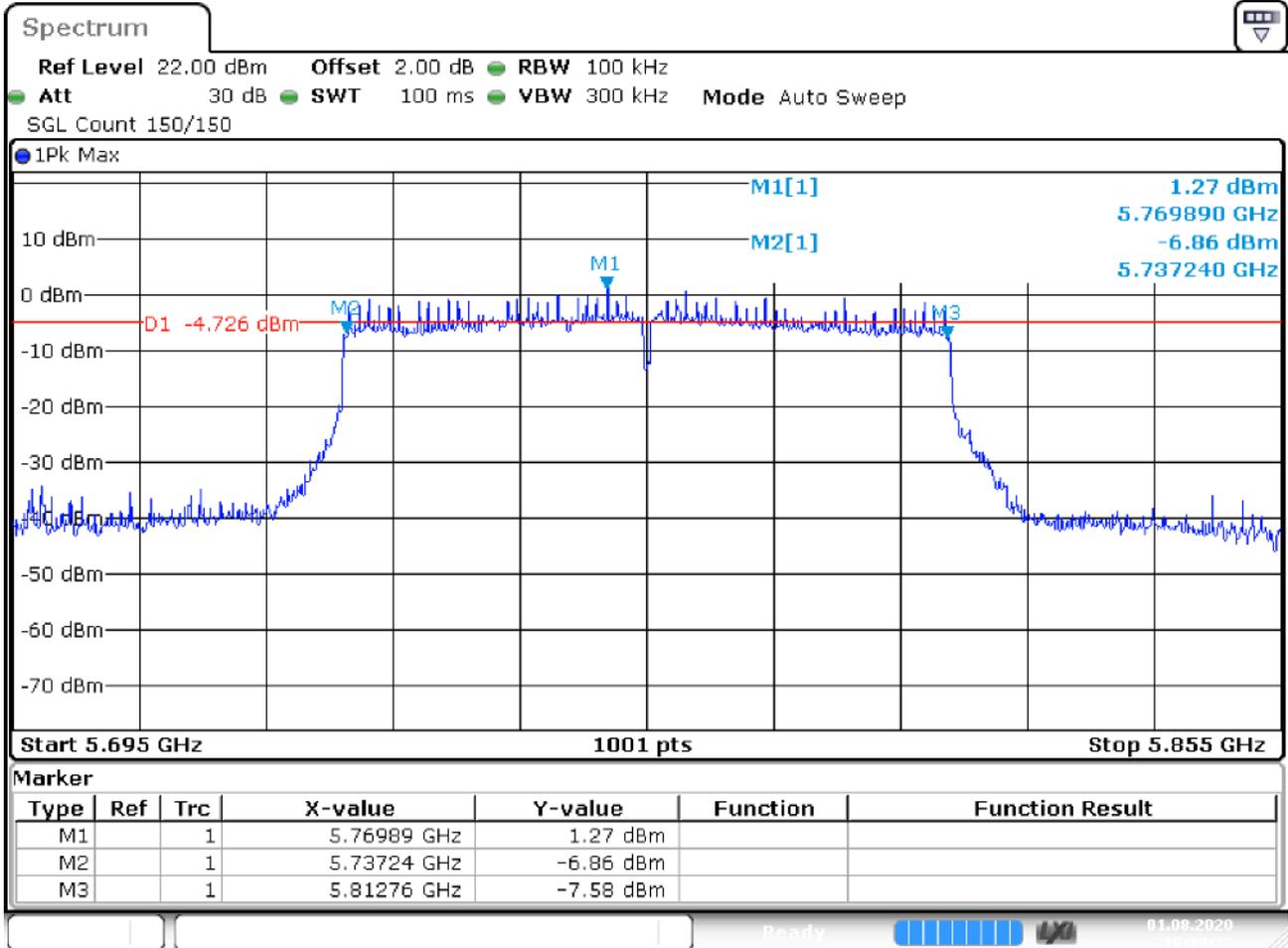
Date: 1.AUG.2020 16:42:58



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4.6.2.28 11AC80MIMO\_155 ANT 2



Date: 1.AUG.2020 19:14:22



### 4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)
Test Method:	ANSI C63.10: 2013
Test Setup:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.
Test Results:	Pass



**4.7.1 Test Results For 99% Occupied Bandwidth**

Test Mode	Test Channel	Frequency [MHz]			Verdict
			ANT 1	ANT 2	
11A20 CDD	36	5180	16.7532	16.6034	PASS
	44	5220	16.7232	16.6034	PASS
	48	5240	16.7233	16.5734	PASS
	52	5260	16.7233	16.6034	PASS
	60	5300	16.6933	16.5734	PASS
	64	5320	16.6933	16.6034	PASS
	100	5500	16.7233	16.5734	PASS
	116	5580	16.7233	16.5734	PASS
	140	5700	16.6933	16.5734	PASS
	149	5745	16.6633	16.5734	PASS
	157	5785	16.6933	16.5734	PASS
	161	5805	16.6933	16.5734	PASS
11N20 MIMO	36	5180	17.9221	17.8921	PASS
	44	5220	17.9221	17.8621	PASS
	48	5240	17.9221	17.8621	PASS
	52	5260	17.9221	17.8322	PASS
	60	5300	18.012	17.8621	PASS
	64	5320	17.9221	17.8621	PASS
	100	5500	17.9221	17.8022	PASS
	116	5580	17.9221	17.8322	PASS
	140	5700	17.8621	17.7722	PASS
	149	5745	17.8621	17.8022	PASS
	157	5785	17.8921	17.8022	PASS
	161	5805	17.8921	17.8022	PASS
11N40 MIMO	38	5190	36.3836	36.2637	PASS
	46	5230	36.3237	36.2637	PASS
	54	5270	36.3237	36.3237	PASS
	62	5310	36.3836	36.3237	PASS
	102	5510	36.4436	36.3836	PASS
	110	5550	36.4436	36.4436	PASS
	134	5670	36.3836	36.3836	PASS
	151	5755	36.5035	36.4436	PASS
	159	5795	36.4436	36.4436	PASS
11AC20 MIMO	36	5180	17.9221	17.8322	PASS
	44	5220	17.8921	17.8022	PASS
	48	5240	17.8921	17.8022	PASS



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	52	5260	17.8921	17.7722	PASS
	60	5300	17.8921	17.8022	PASS
	64	5320	17.8621	17.7722	PASS
	100	5500	17.8921	17.7722	PASS
	116	5580	17.8621	17.7722	PASS
	140	5700	17.8322	17.7722	PASS
	149	5745	17.8621	17.7722	PASS
	157	5785	17.8621	17.7722	PASS
	161	5805	17.8621	17.7722	PASS
11AC40 MIMO	38	5190	36.3836	36.2637	PASS
	46	5230	36.3836	36.2637	PASS
	54	5270	36.3836	36.2637	PASS
	62	5310	36.3836	36.2038	PASS
	102	5510	36.3836	36.3237	PASS
	110	5550	36.3836	36.3237	PASS
	134	5670	36.3836	36.2637	PASS
	151	5755	36.4436	36.2637	PASS
	159	5795	36.4436	36.3237	PASS
11AC80 MIMO	42	5210	75.7642	75.5245	PASS
	58	5290	75.6444	75.5245	PASS
	106	5530	75.6444	75.5245	PASS
	122	5610	75.8841	75.5245	PASS
	155	5775	75.7642	75.6444	PASS

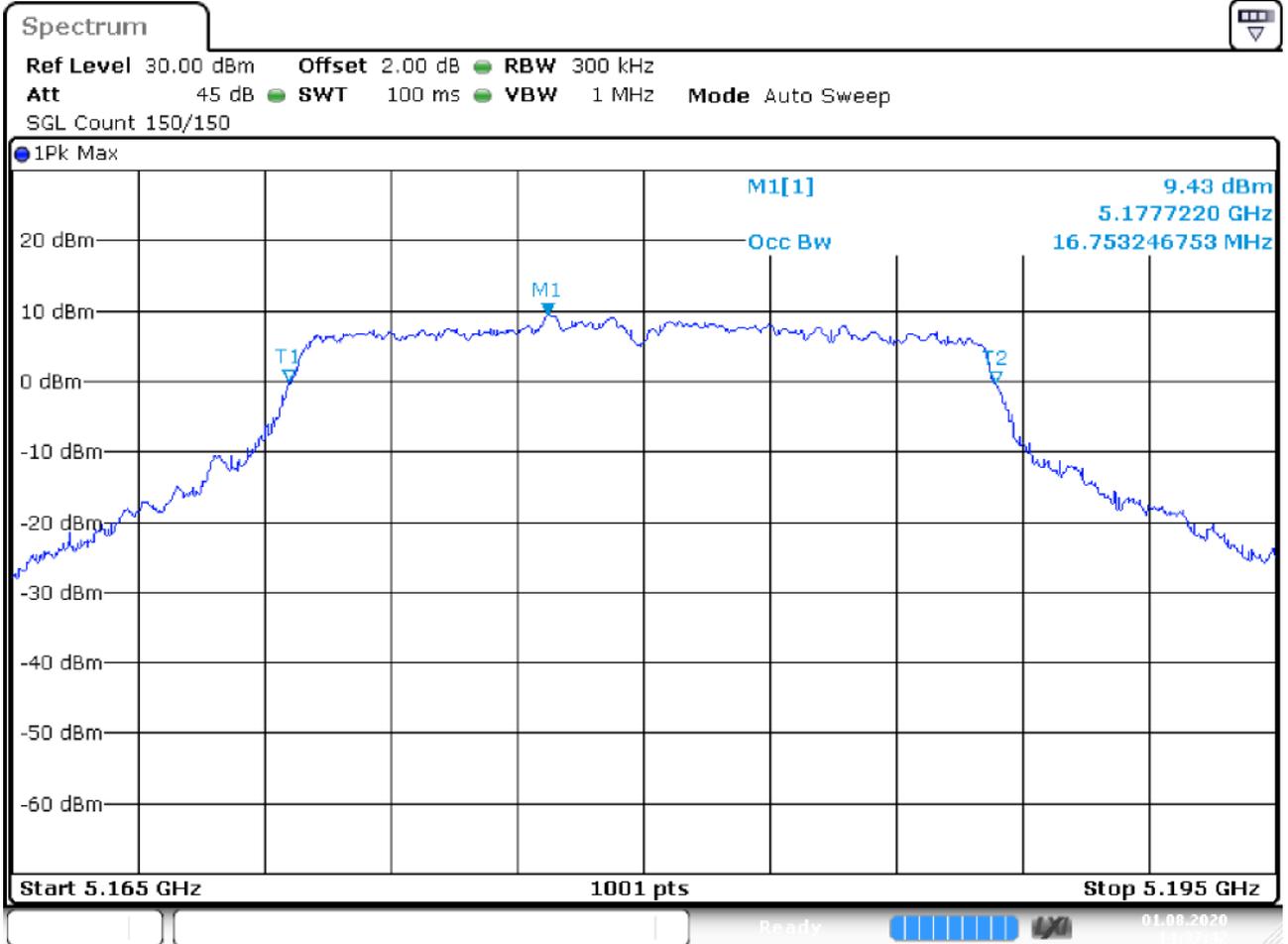


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### 4.7.2 Test Plots For 99% Occupied Bandwidth

#### 4.7.2.1 11A20\_CDD\_36 ANT 1



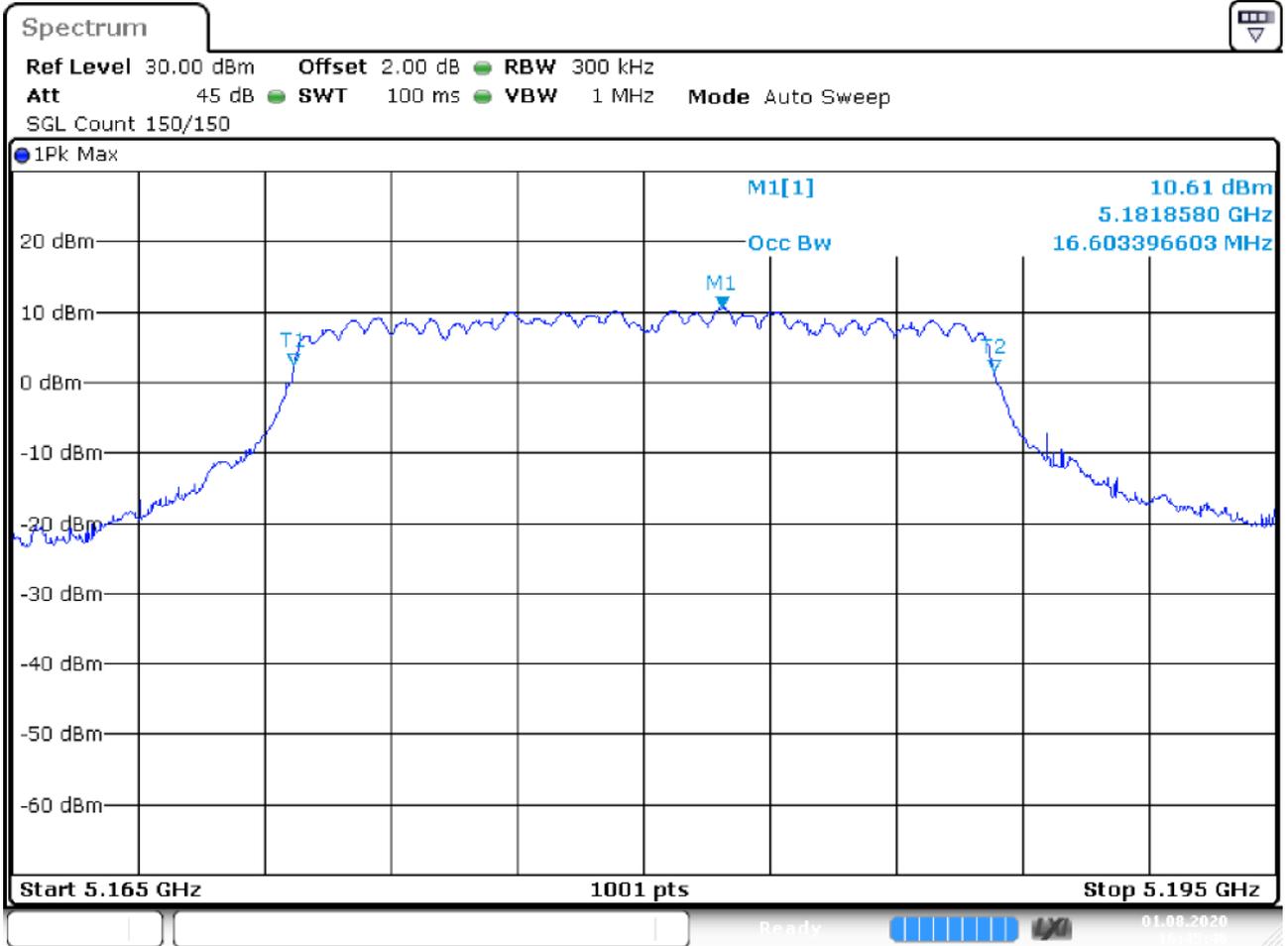
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4.7.2.2 11A20\_CDD\_36 ANT 2

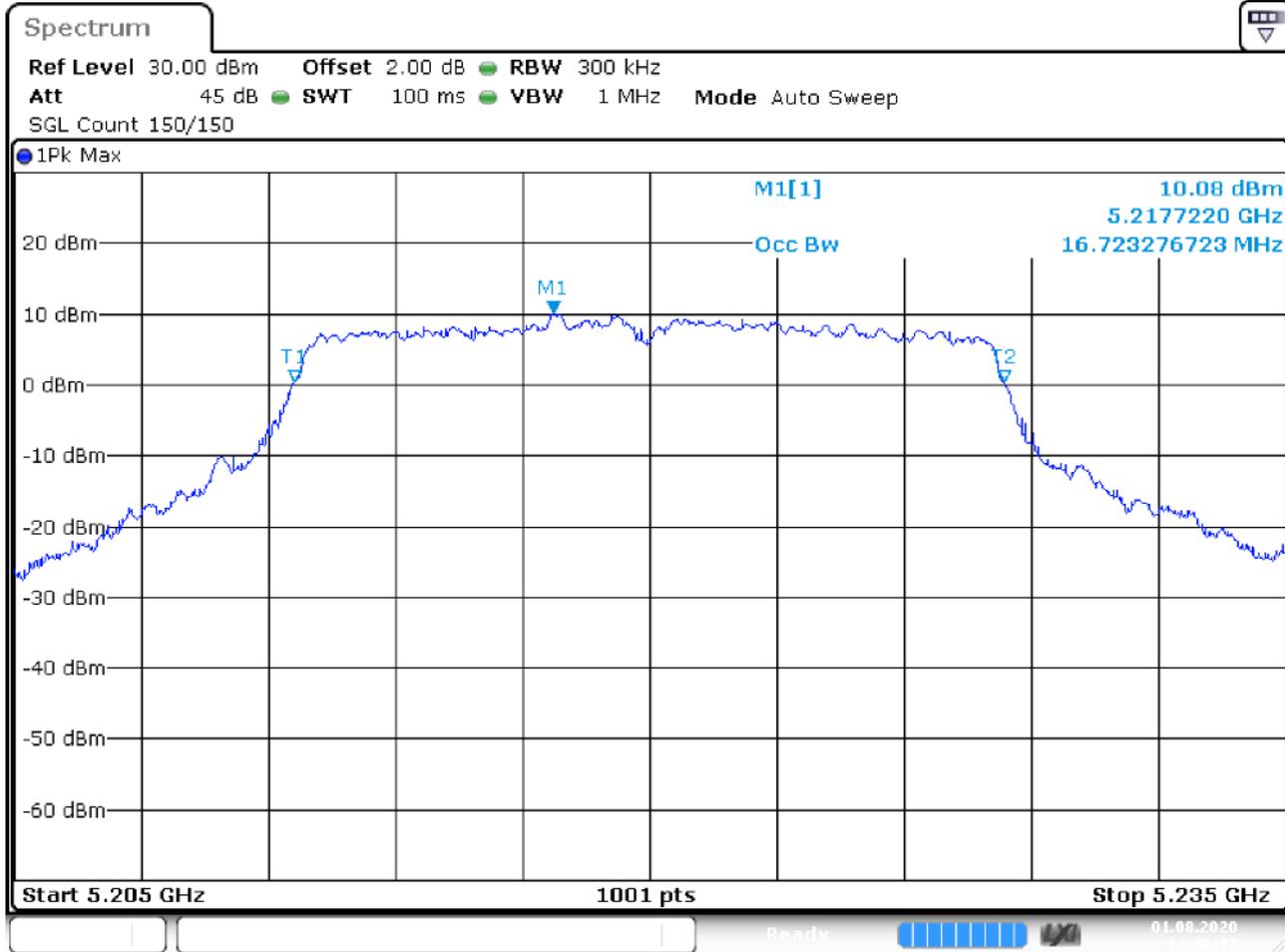


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**4.7.2.3 11A20\_CDD\_44 ANT 1**

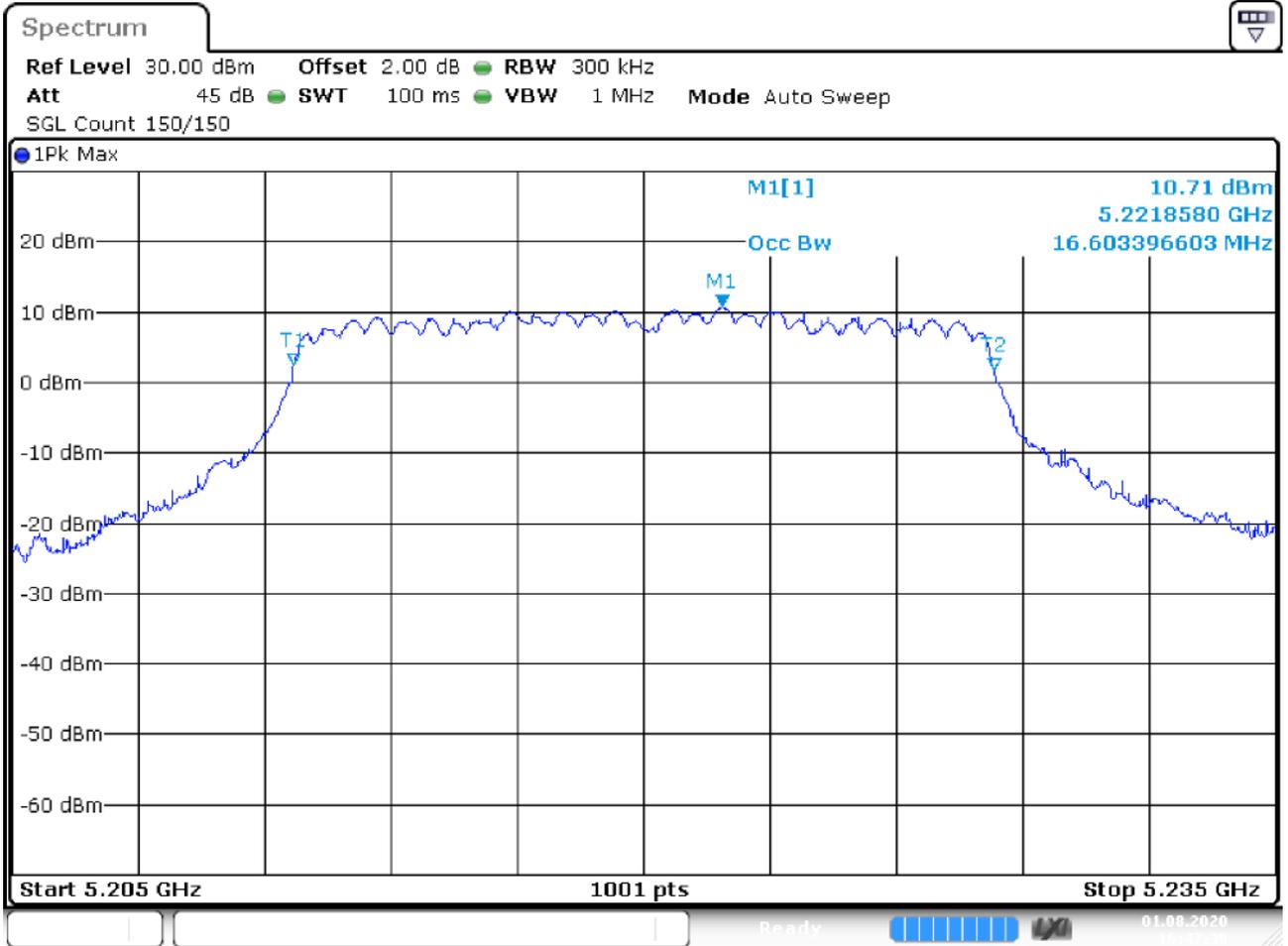


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4.7.2.4 11A20\_CDD\_44 ANT 2

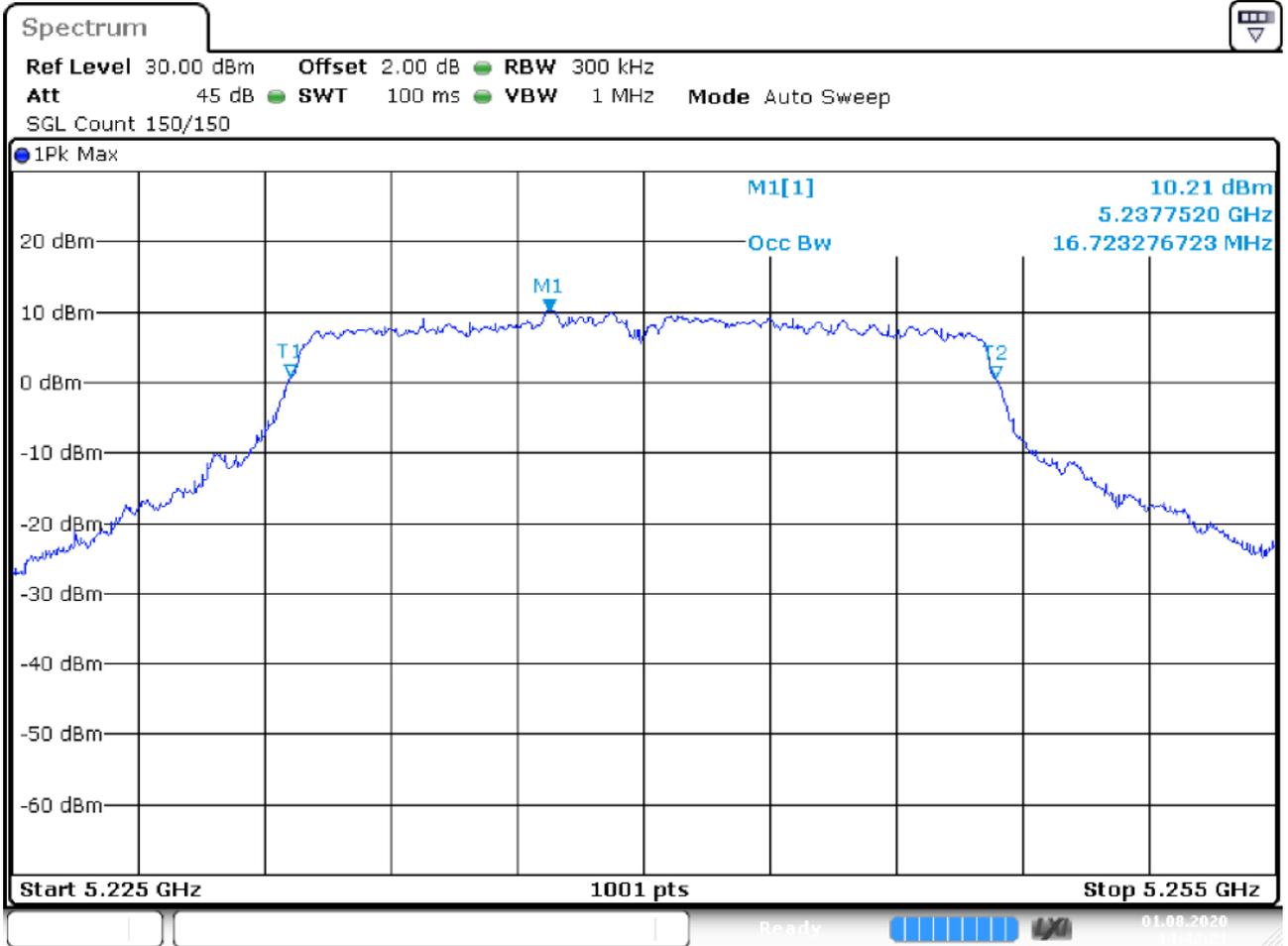


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4.7.2.5 11A20\_CDD\_48 ANT 1



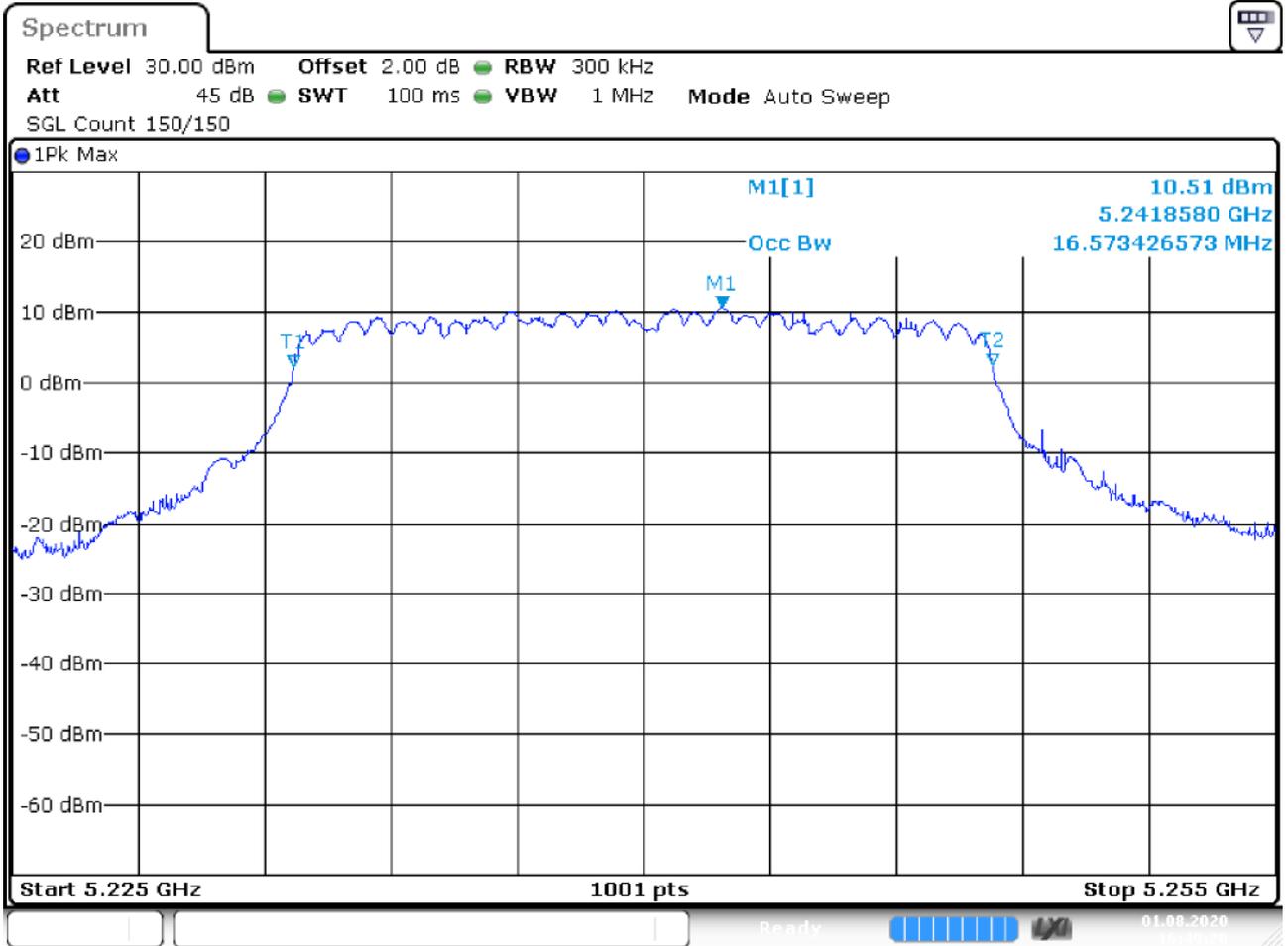
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4.7.2.6 11A20\_CDD\_48 ANT 2



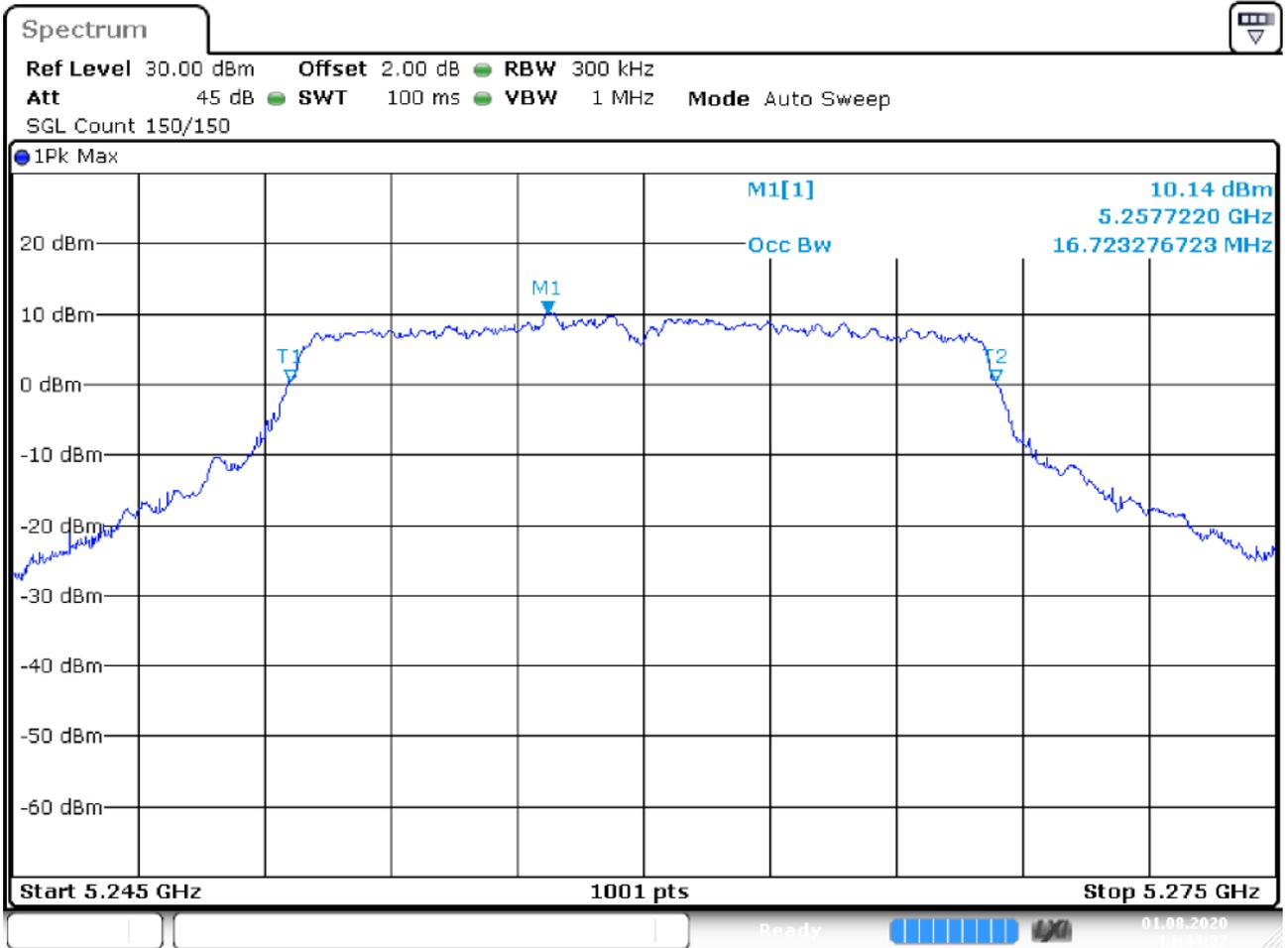
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4.7.2.7 11A20\_CDD\_52 ANT 1



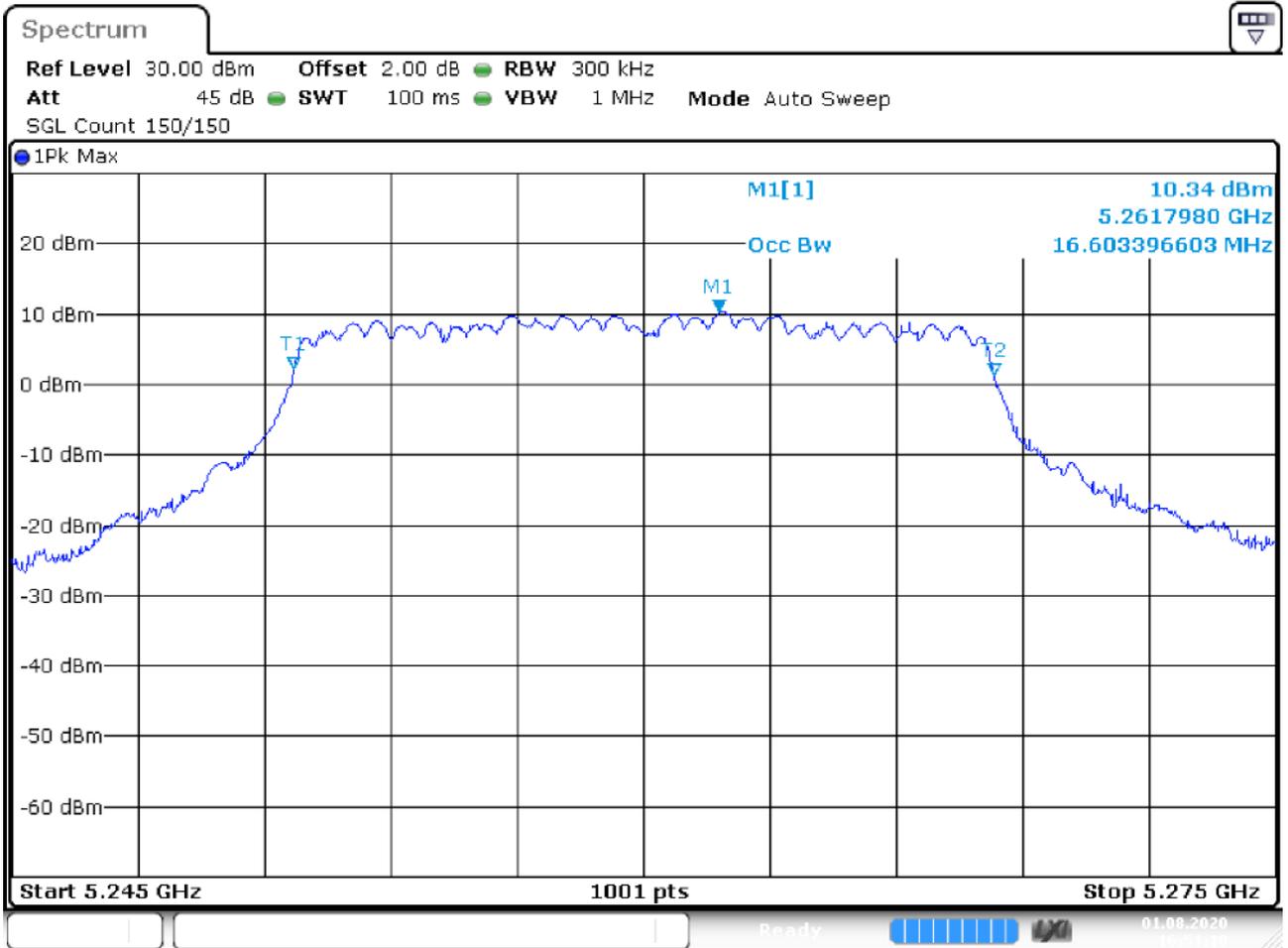
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4.7.2.8 11A20\_CDD\_52 ANT 2



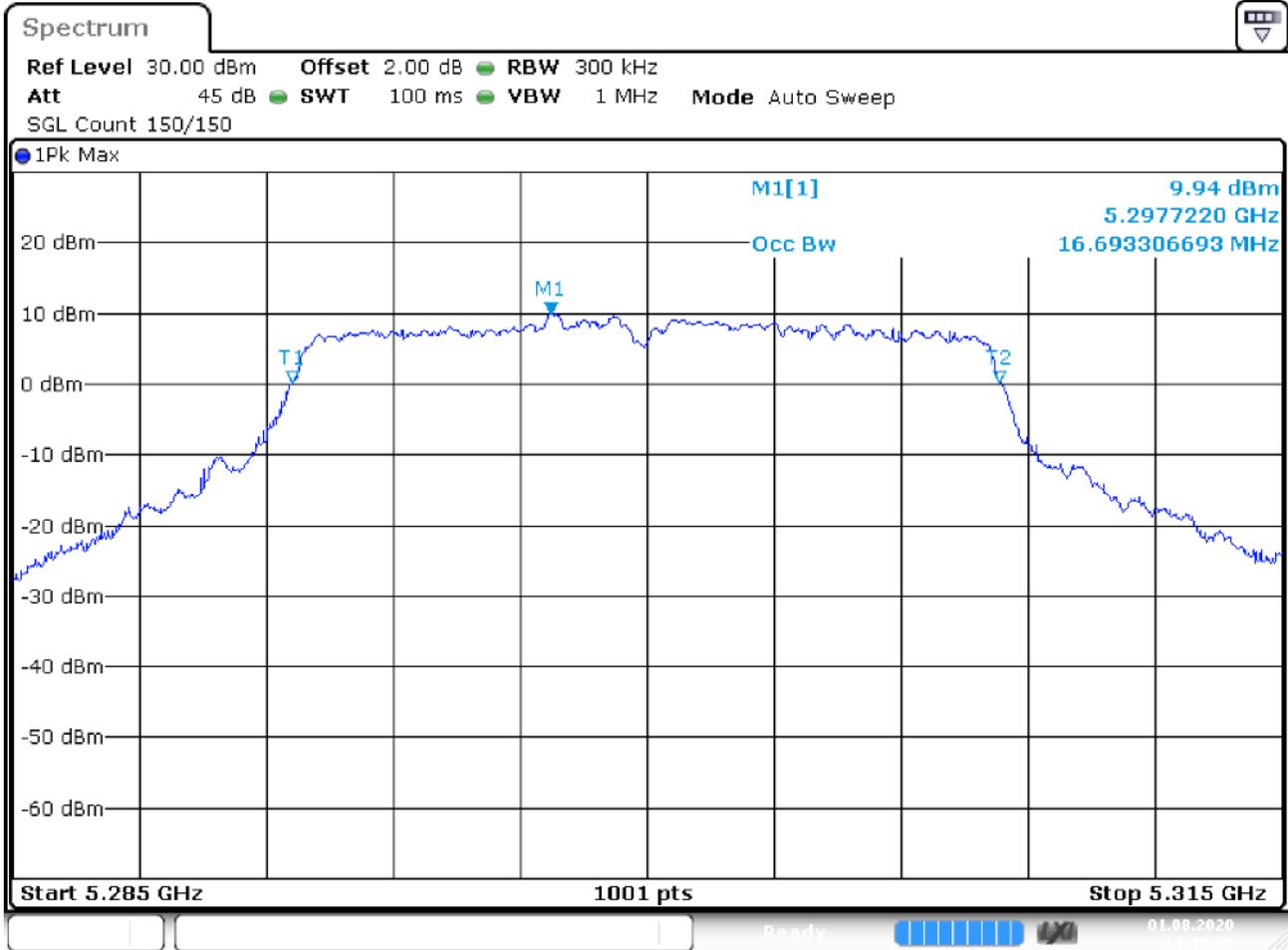
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4.7.2.9 11A20\_CDD\_60 ANT 1

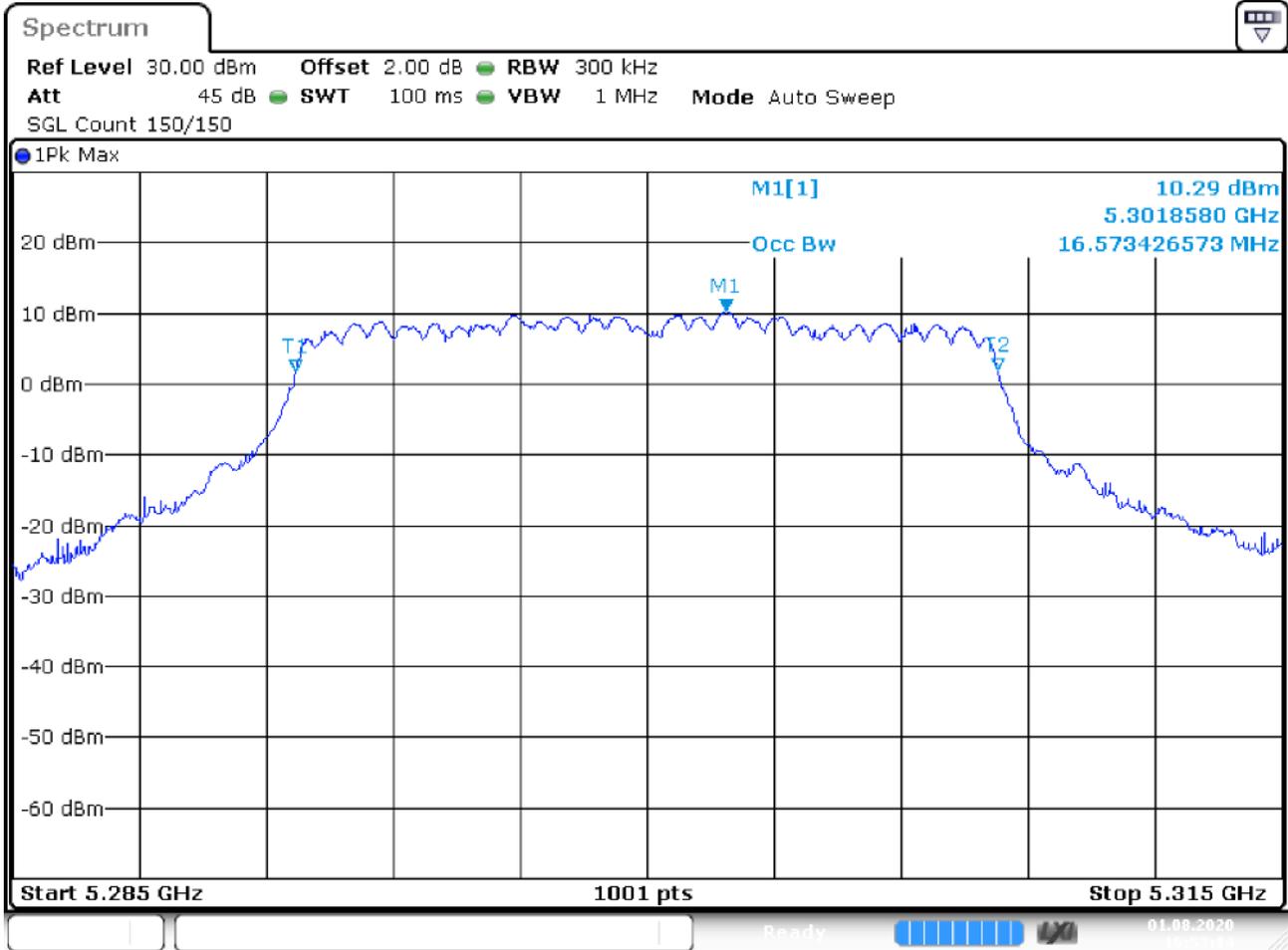


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4.7.2.10 11A20\_CDD\_60 ANT 2

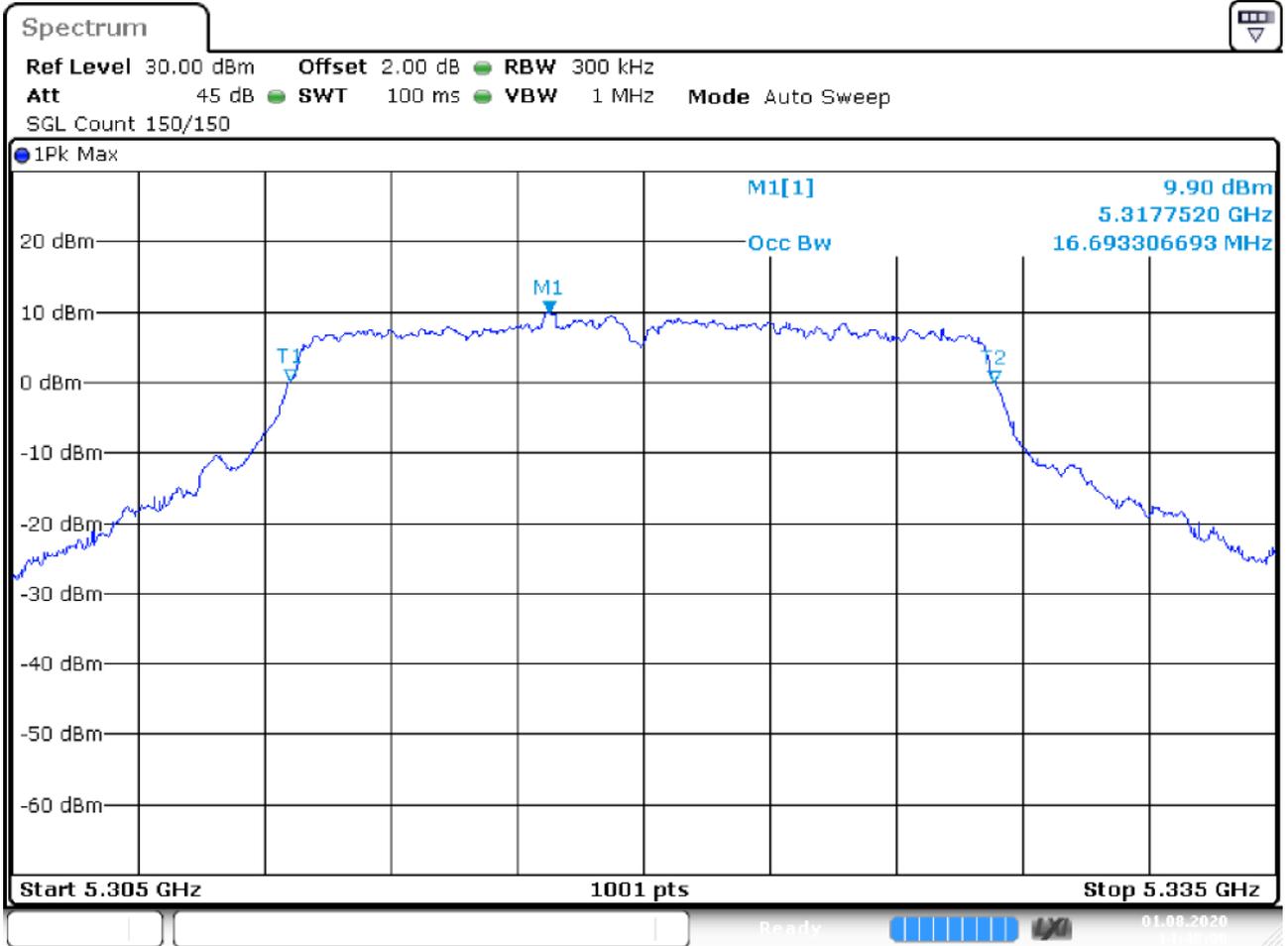


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4.7.2.11 11A20\_CDD\_64 ANT 1

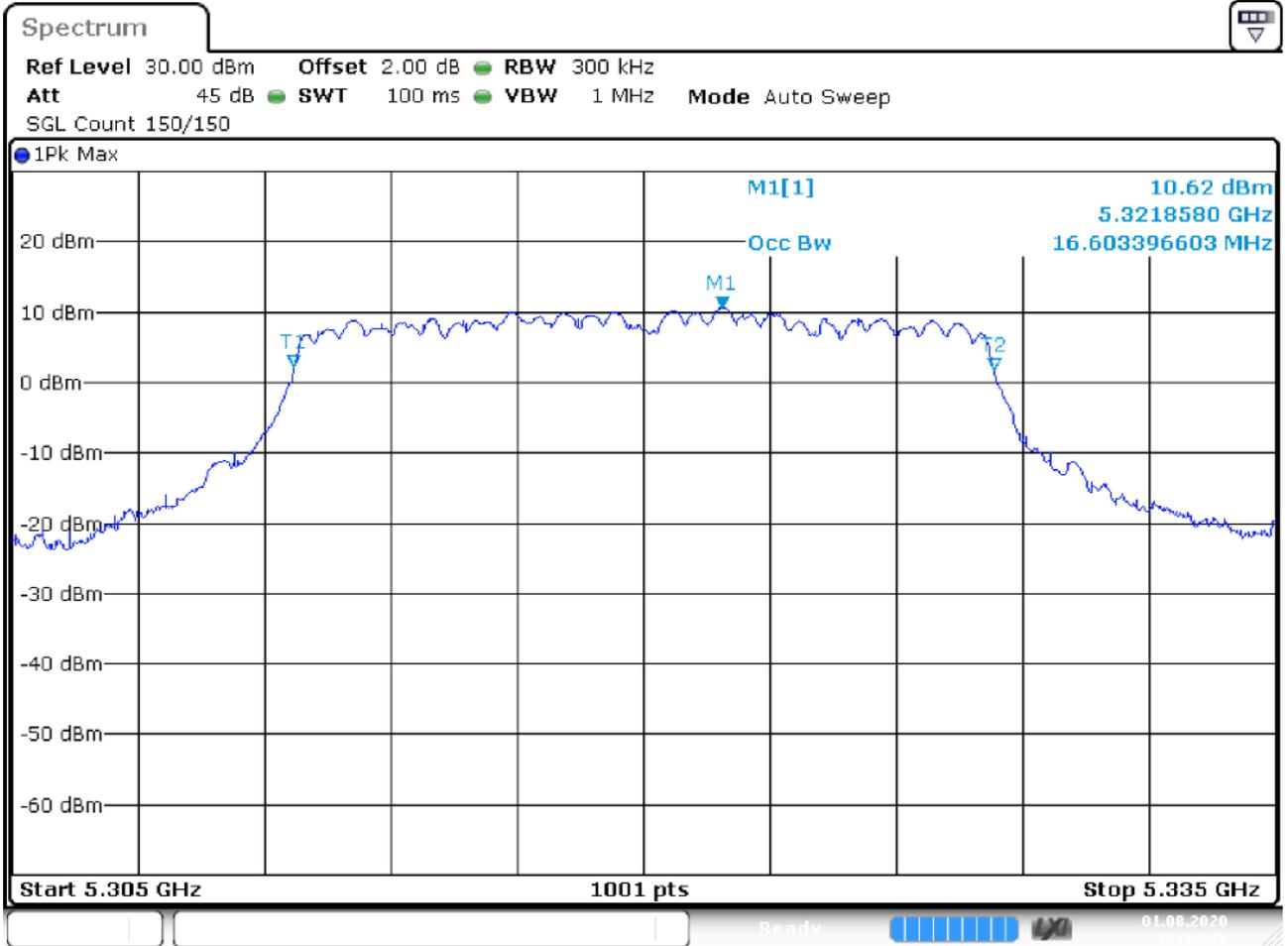


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4.7.2.12 11A20\_CDD\_64 ANT 2



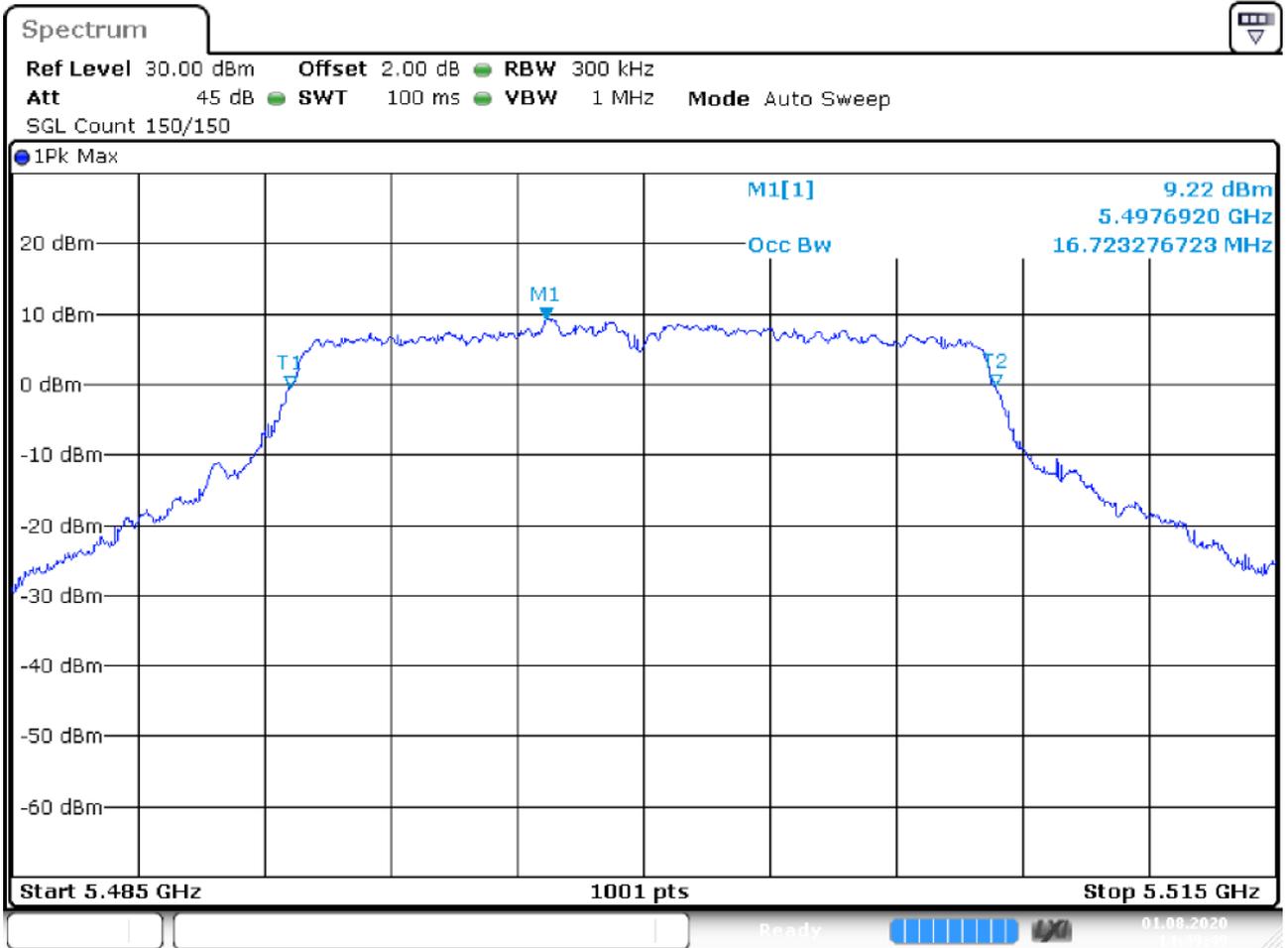
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4.7.2.13 11A20\_CDD\_100 ANT 1

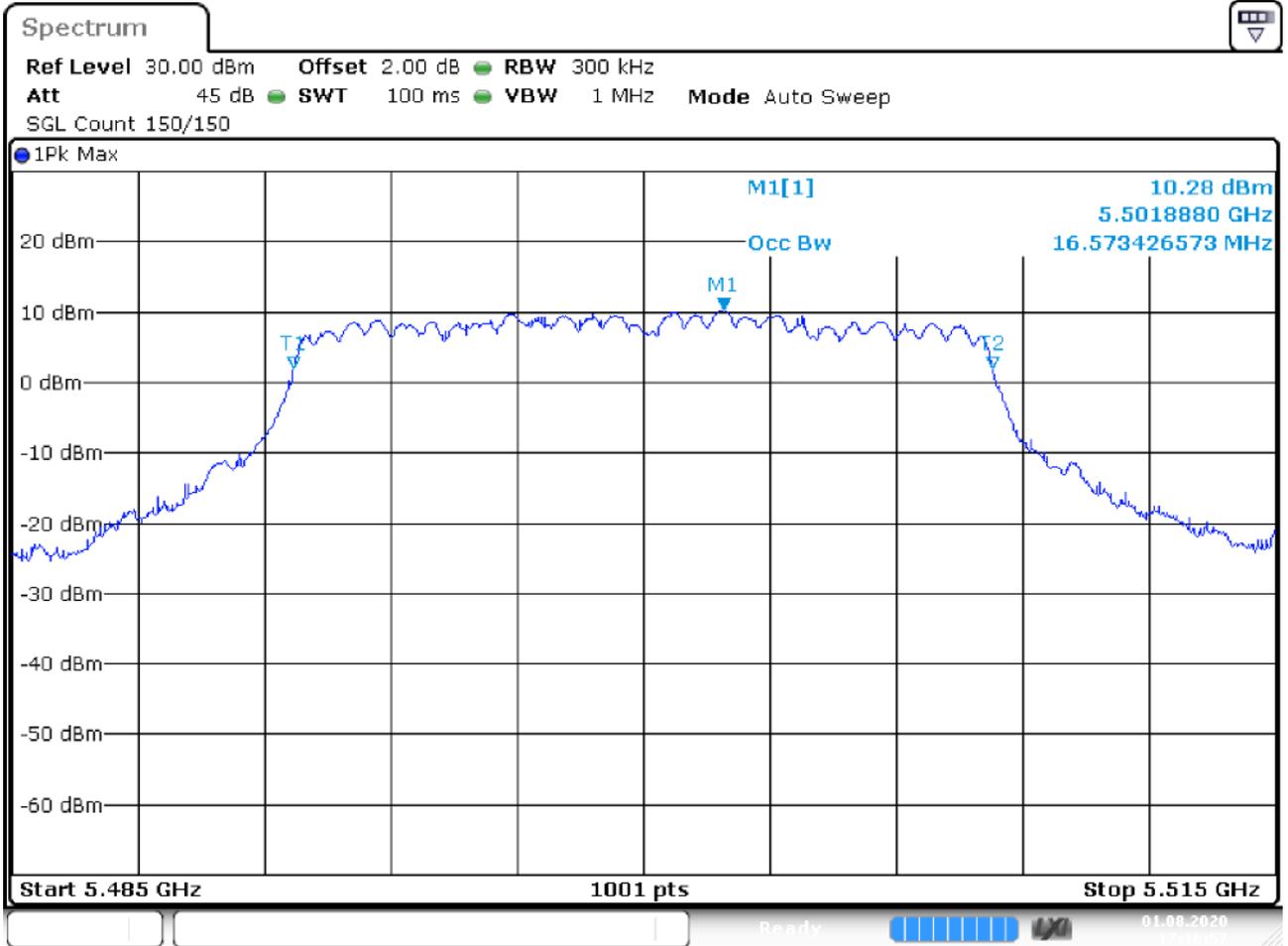


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4.7.2.14 11A20\_CDD\_100 ANT 2



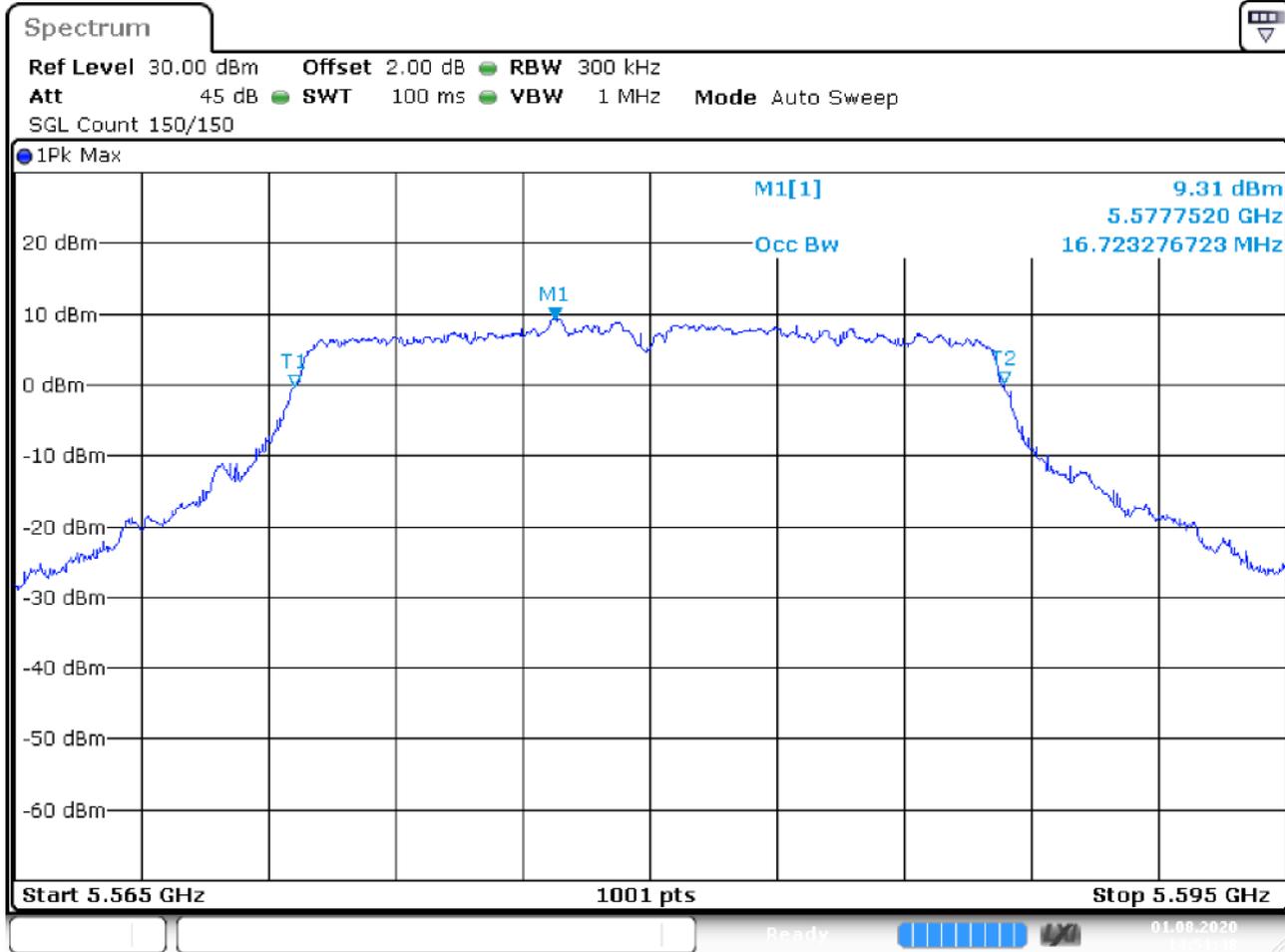
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**4.7.2.15 11A20\_CDD\_116 ANT 1**

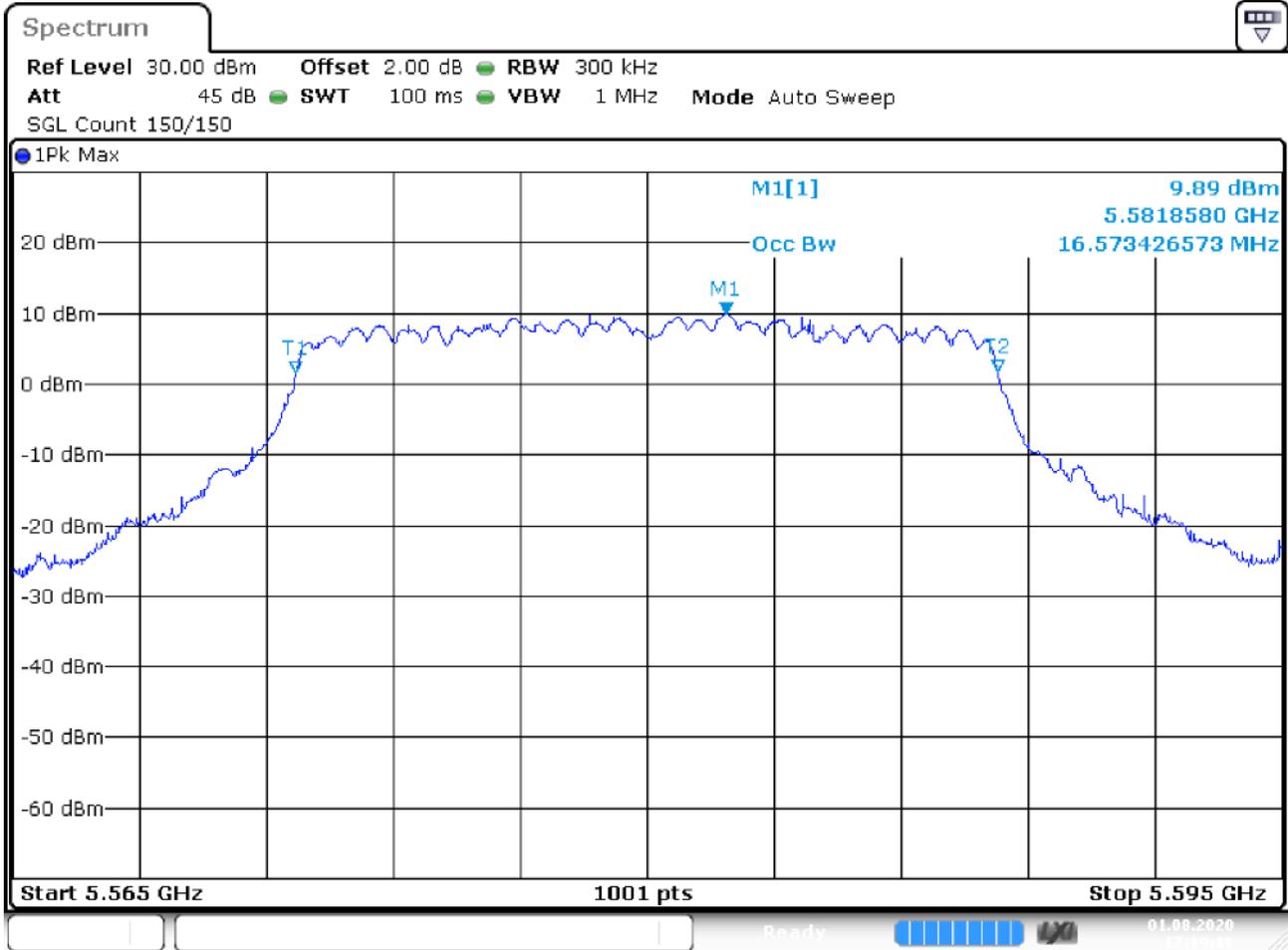


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4.7.2.16 11A20\_CDD\_116 ANT 2

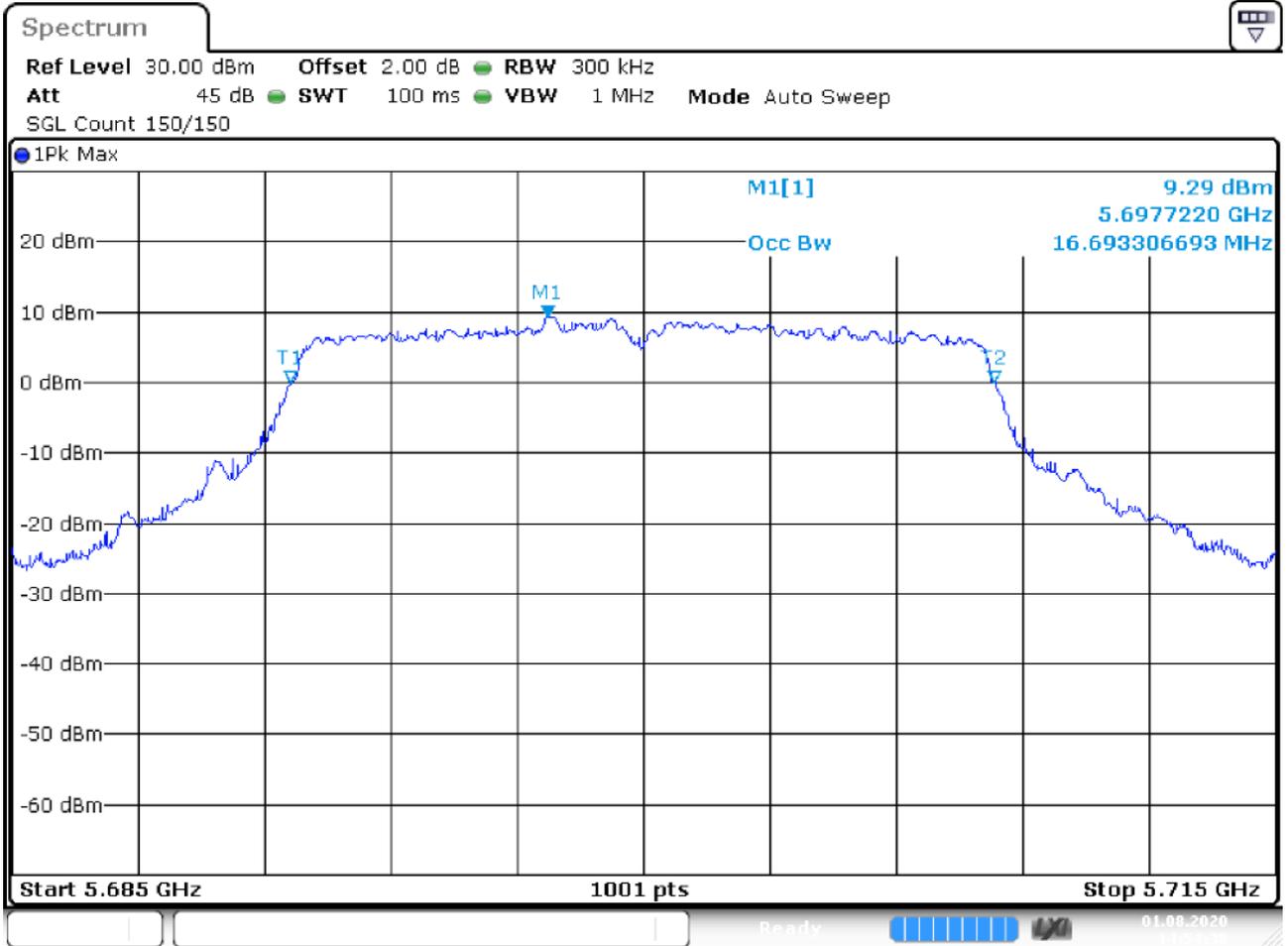


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4.7.2.17 11A20\_CDD\_140 ANT 1

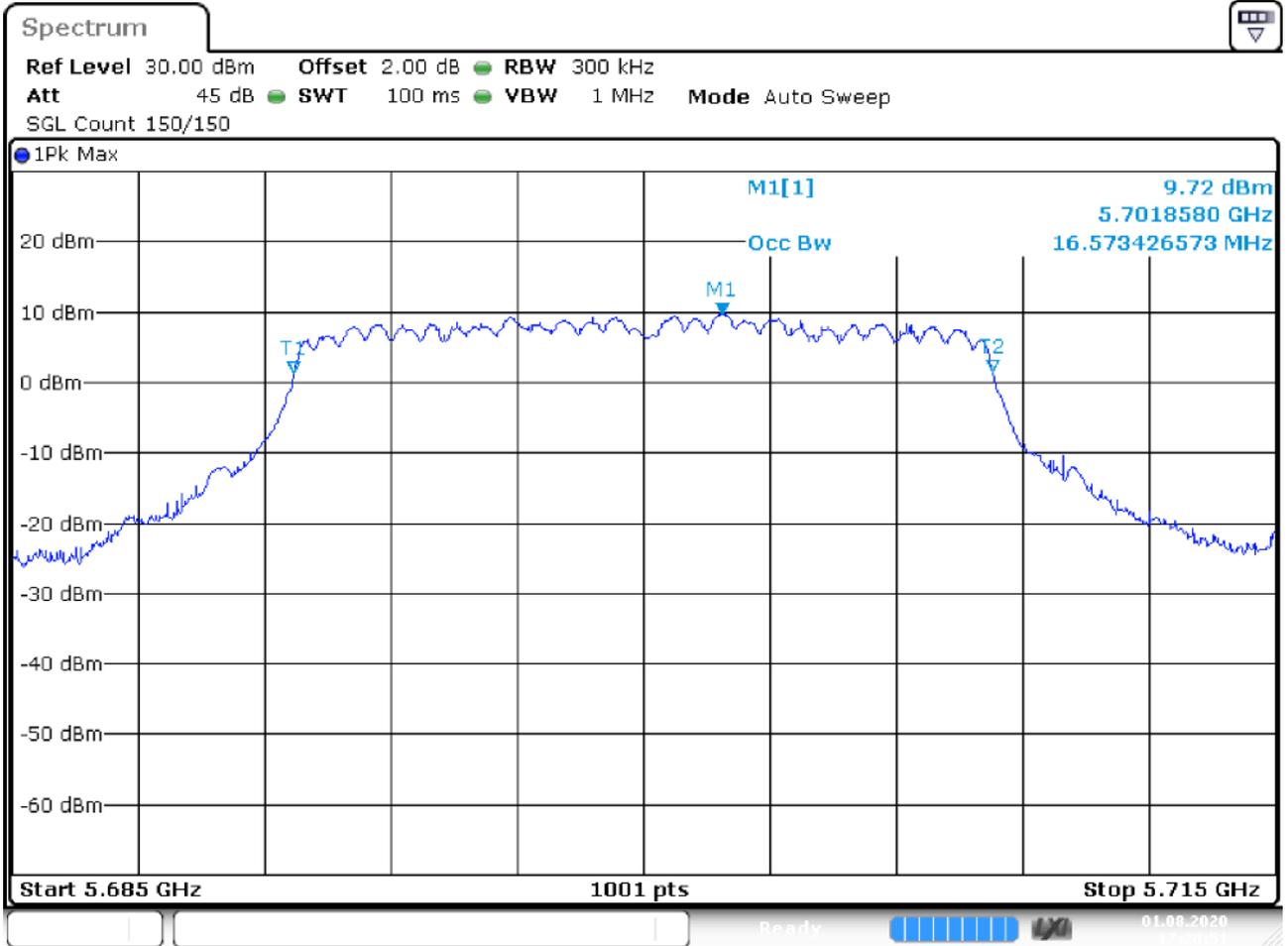


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4.7.2.18 11A20\_CDD\_140 ANT 2



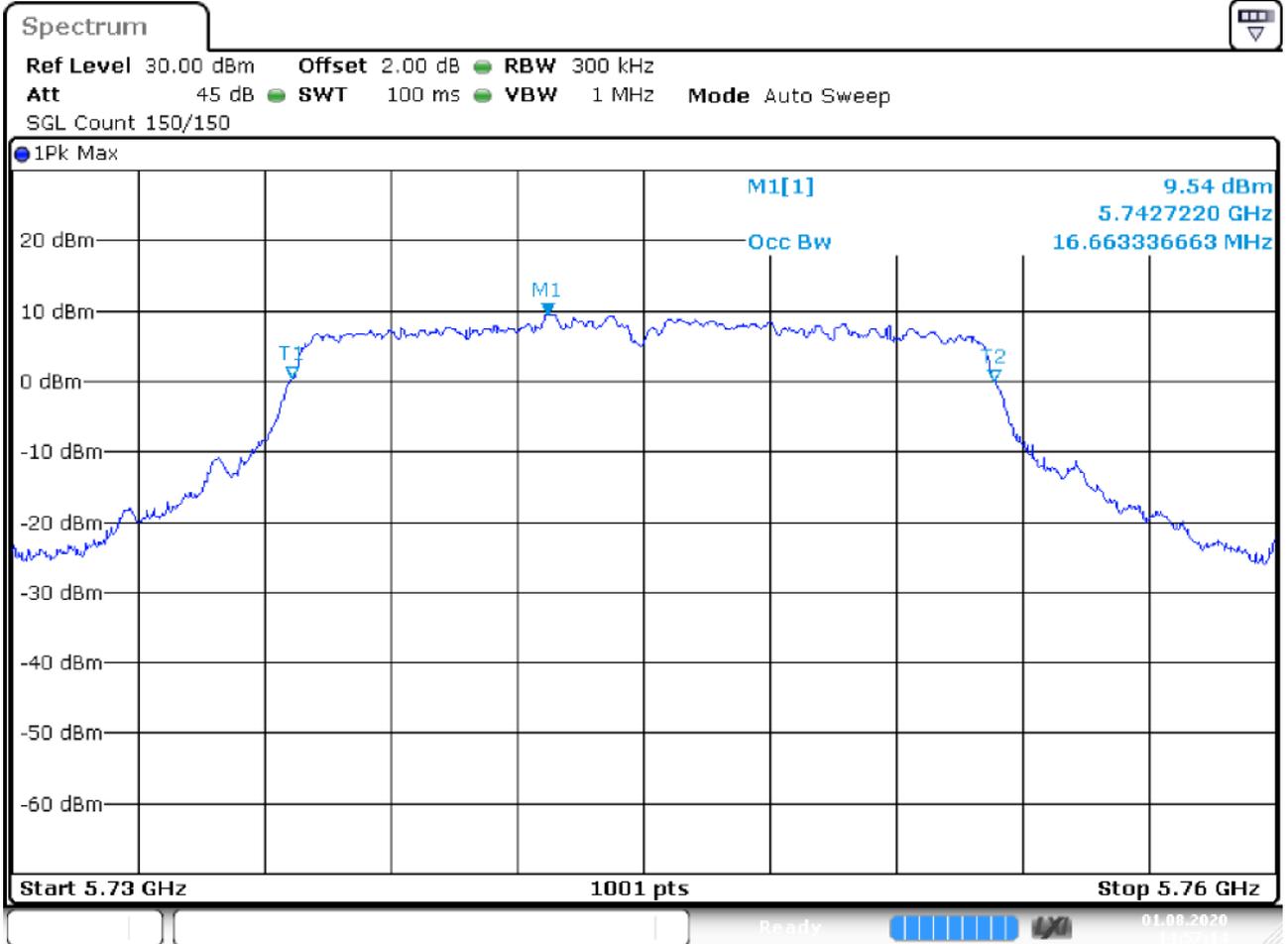
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4.7.2.19 11A20\_CDD\_149 ANT 1

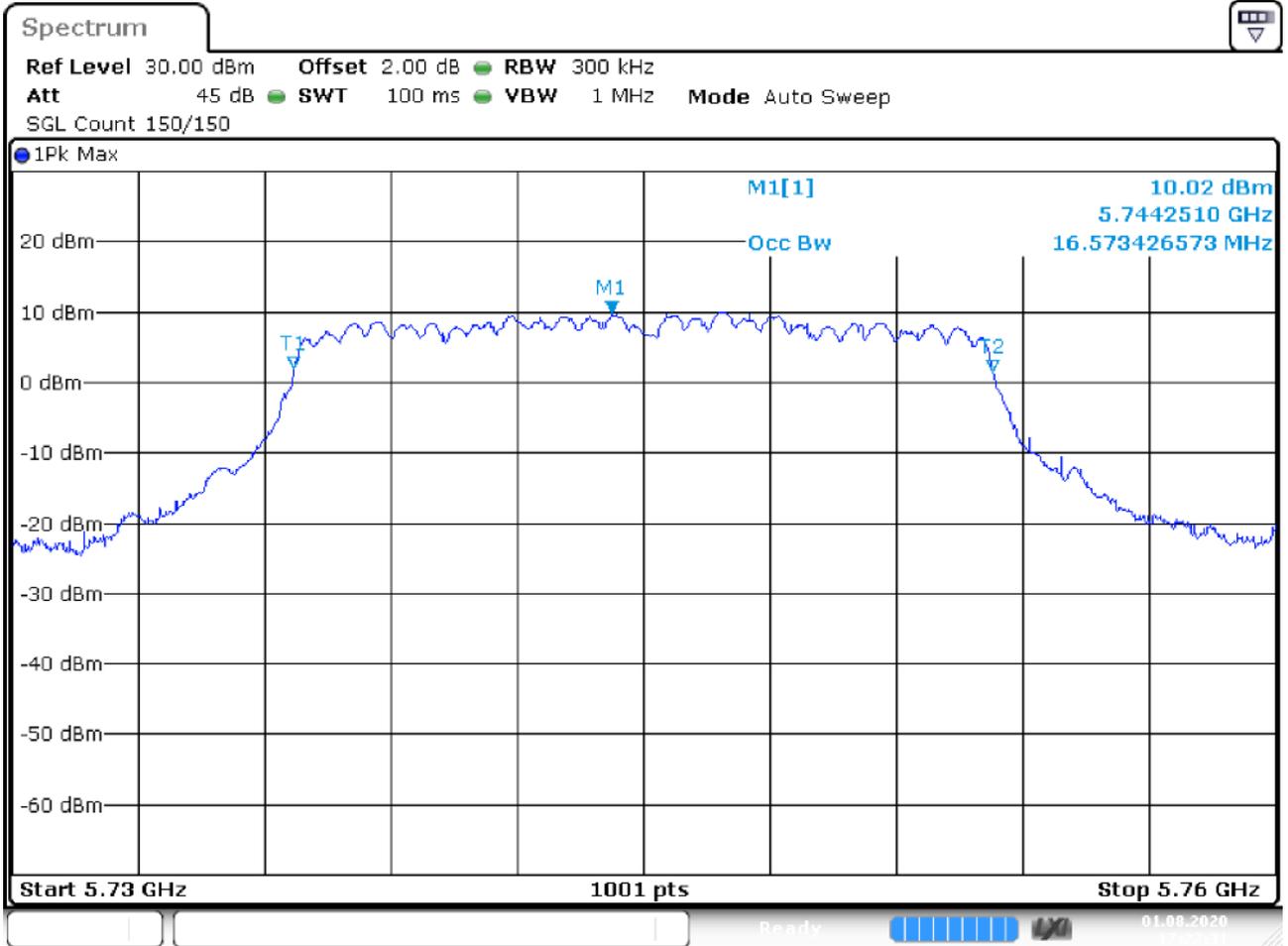


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4.7.2.20 11A20\_CDD\_149 ANT 2



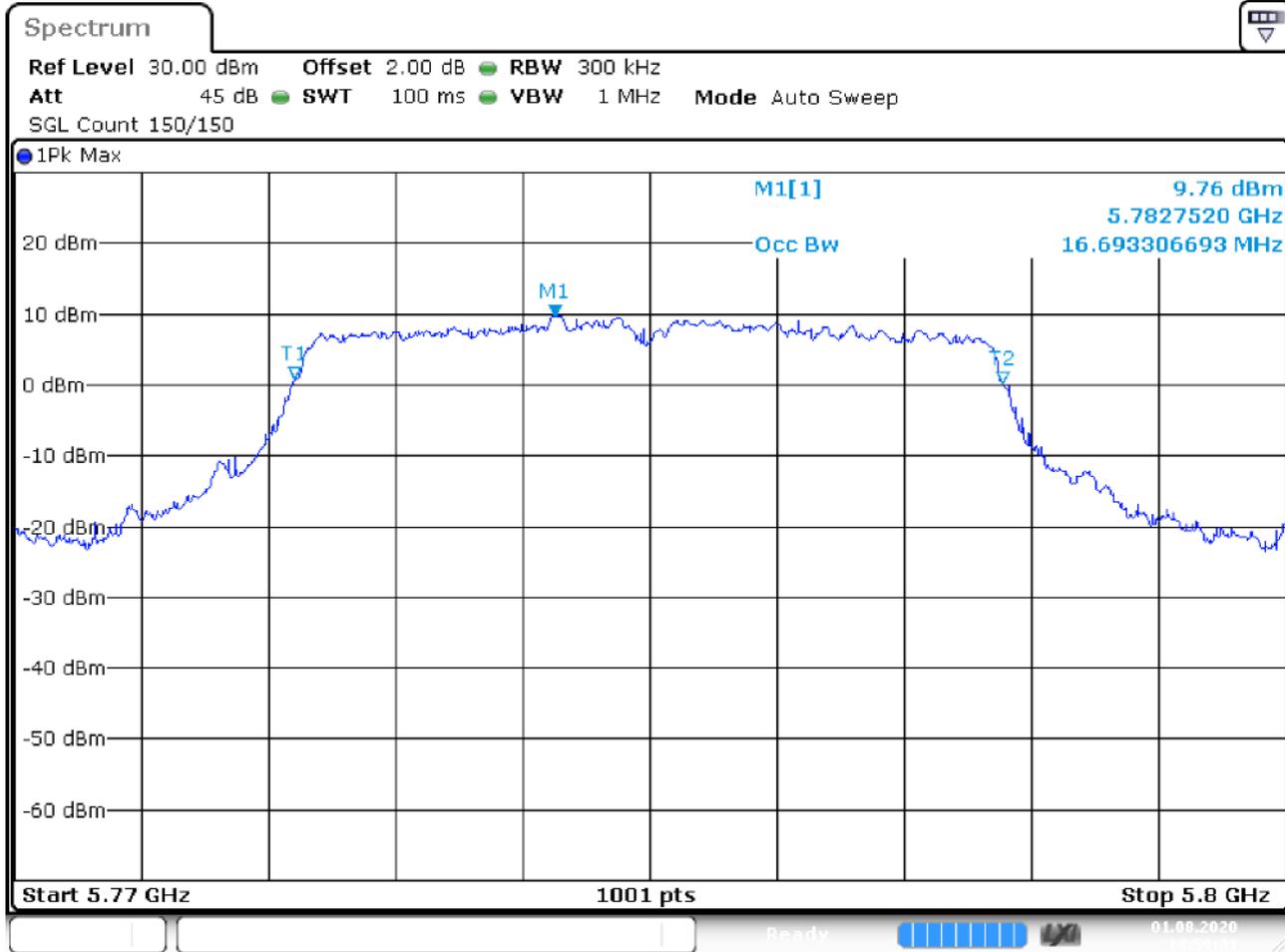
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4.7.2.21

11A20\_CDD\_157 ANT 1



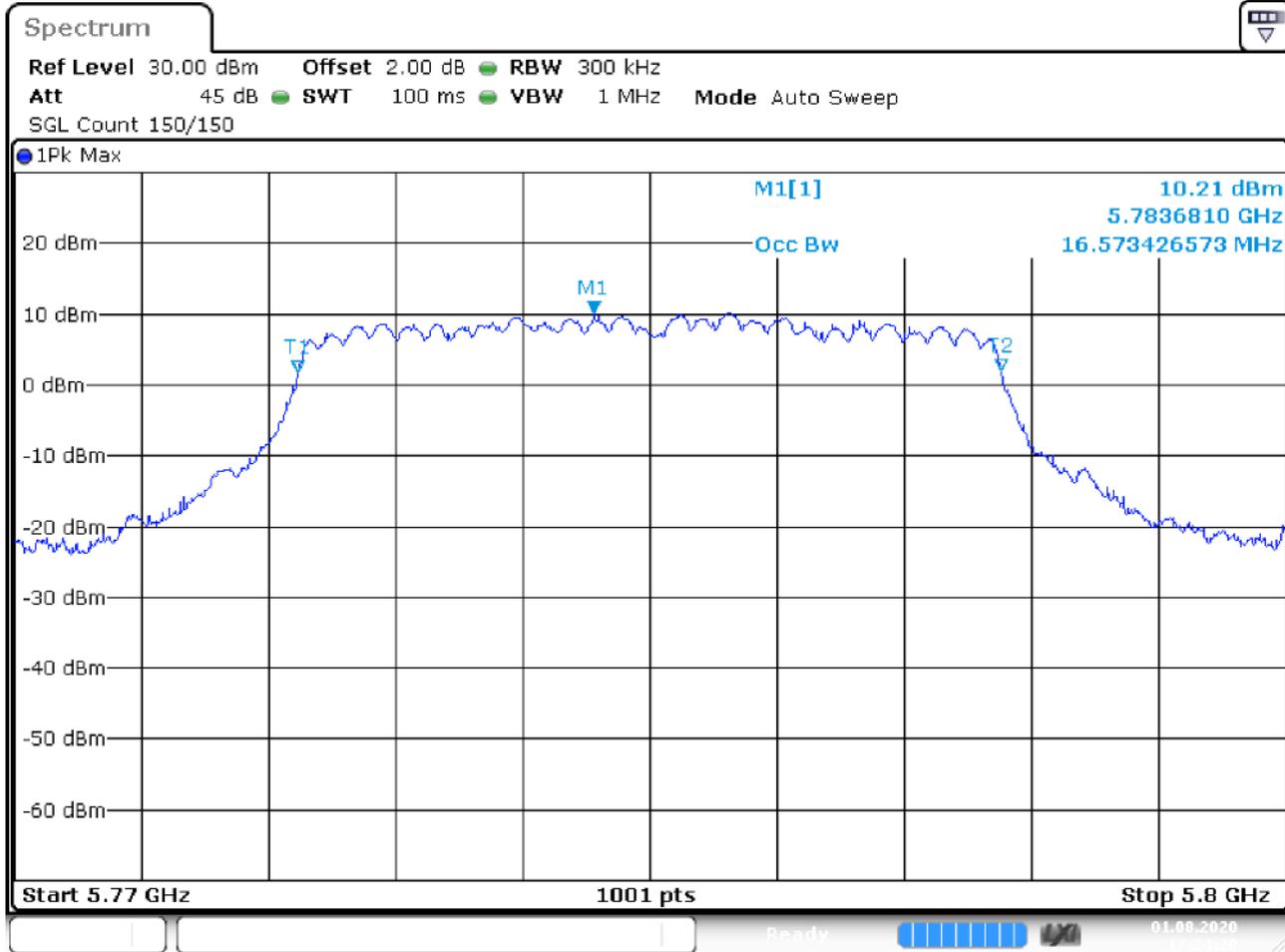
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4.7.2.22

11A20\_CDD\_157 ANT 2

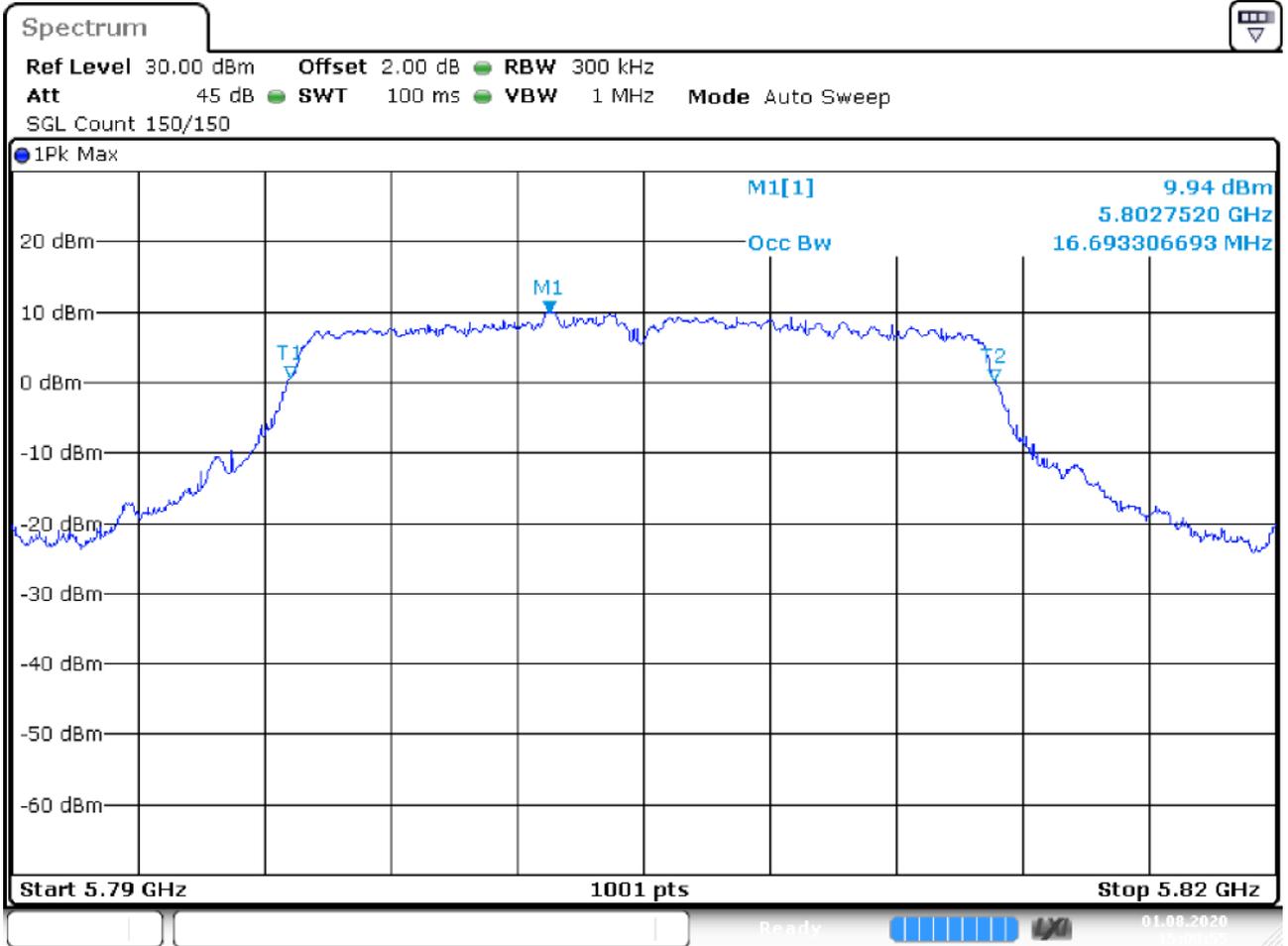


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4.7.2.23 11A20\_CDD\_161 ANT 1



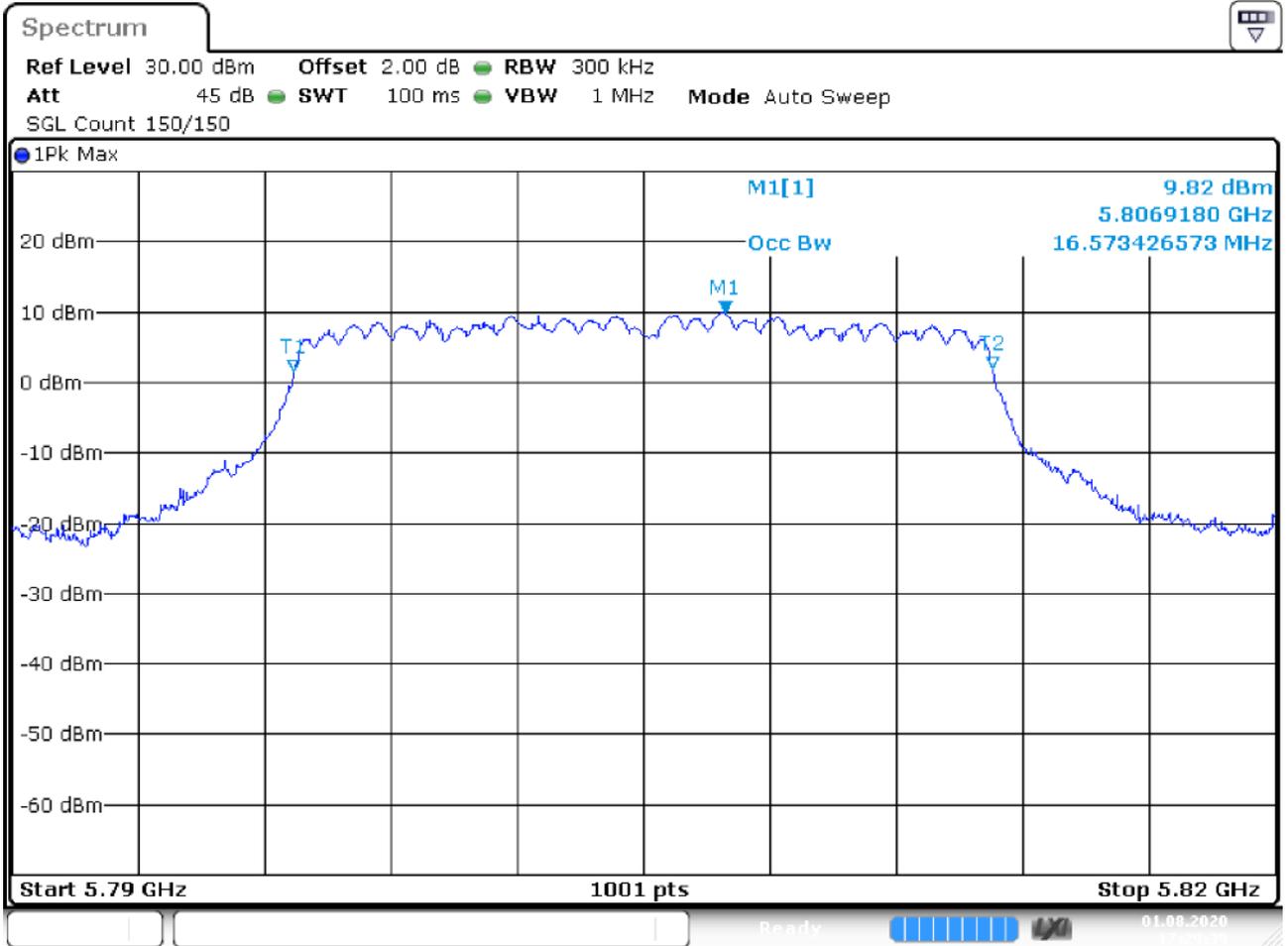
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4.7.2.24 11A20\_CDD\_161 ANT 2

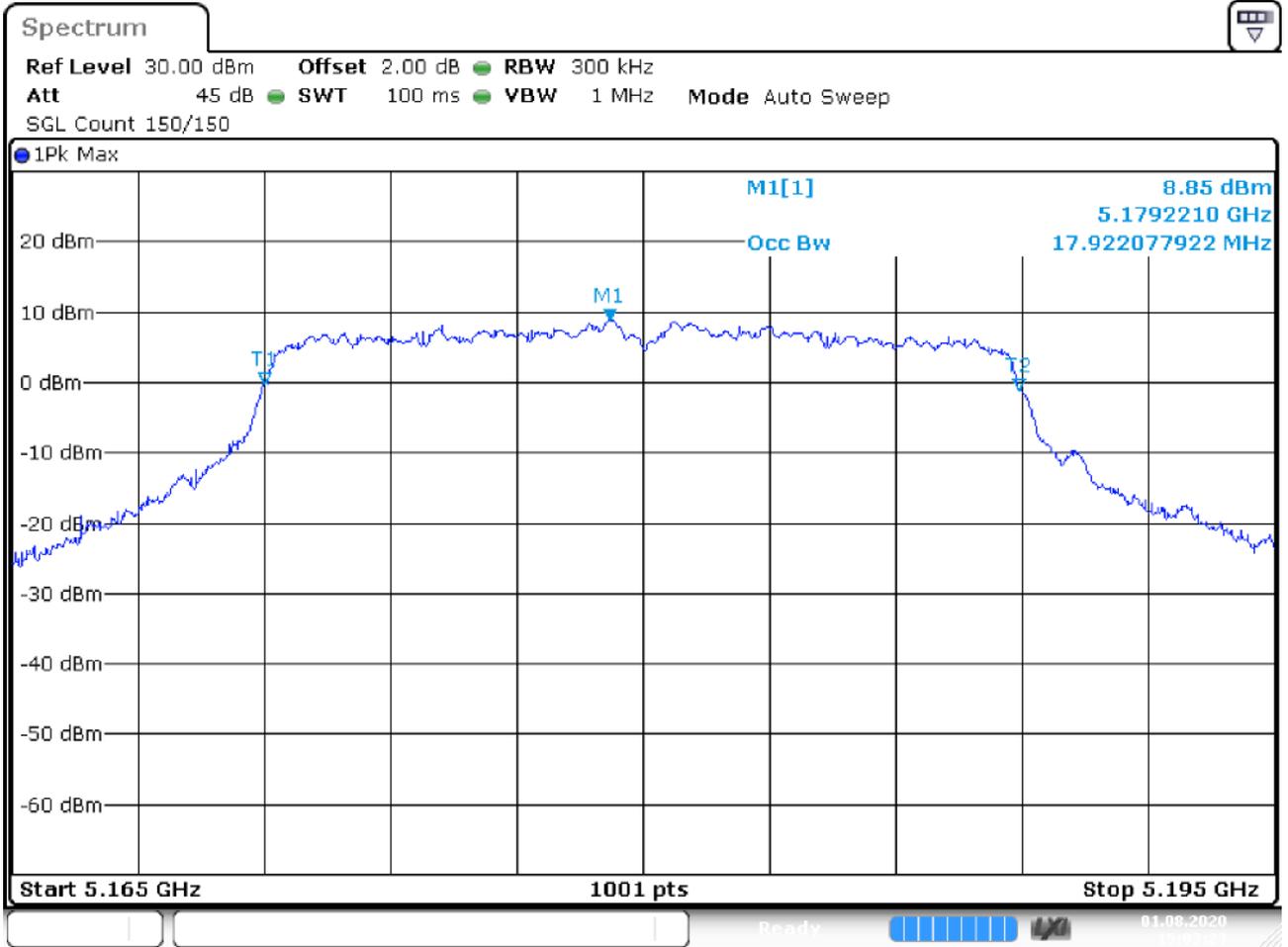


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**4.7.2.25 11N20MIMO\_36 ANT 1**



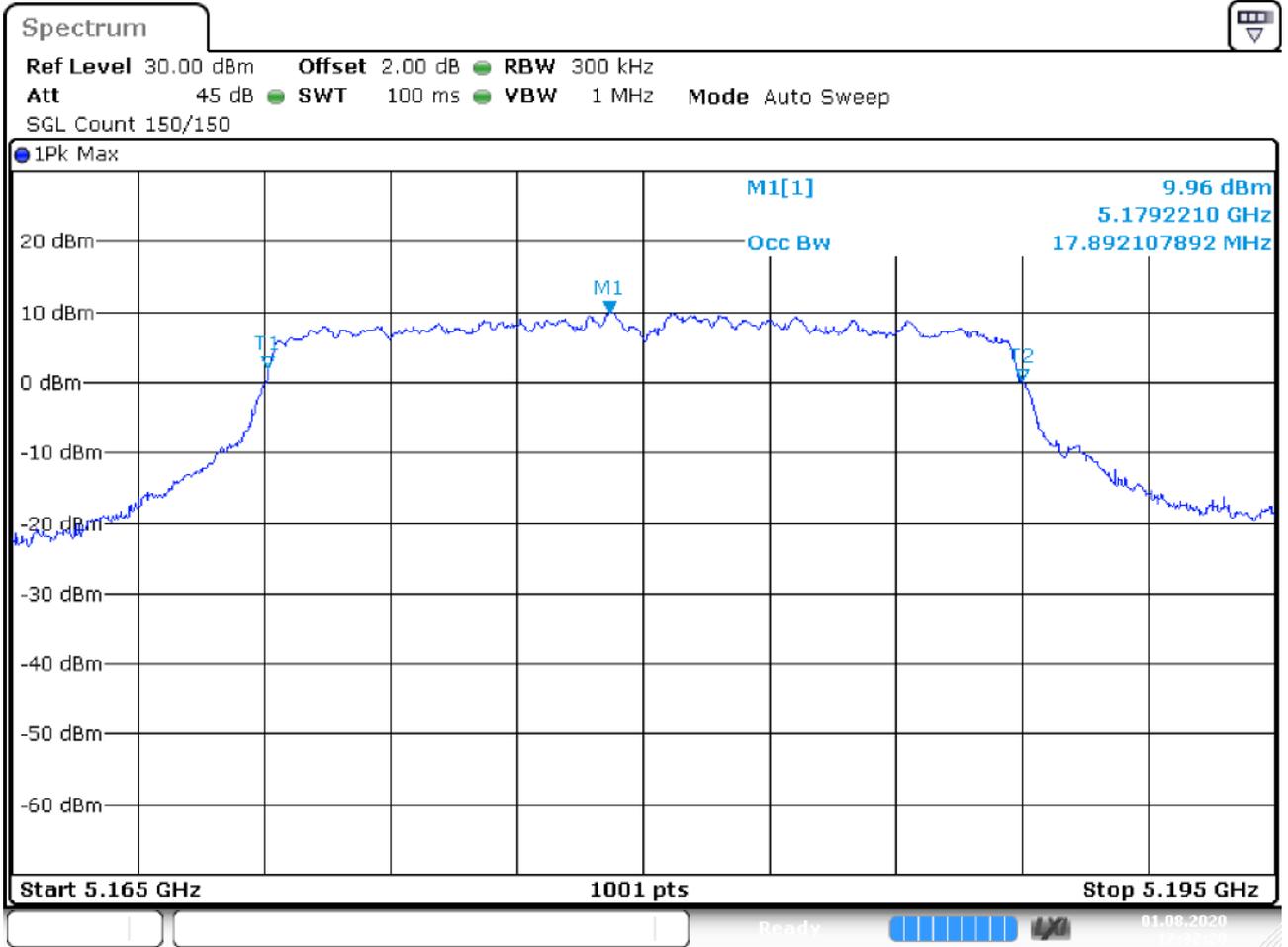
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4.7.2.26 11N20MIMO\_36 ANT 2

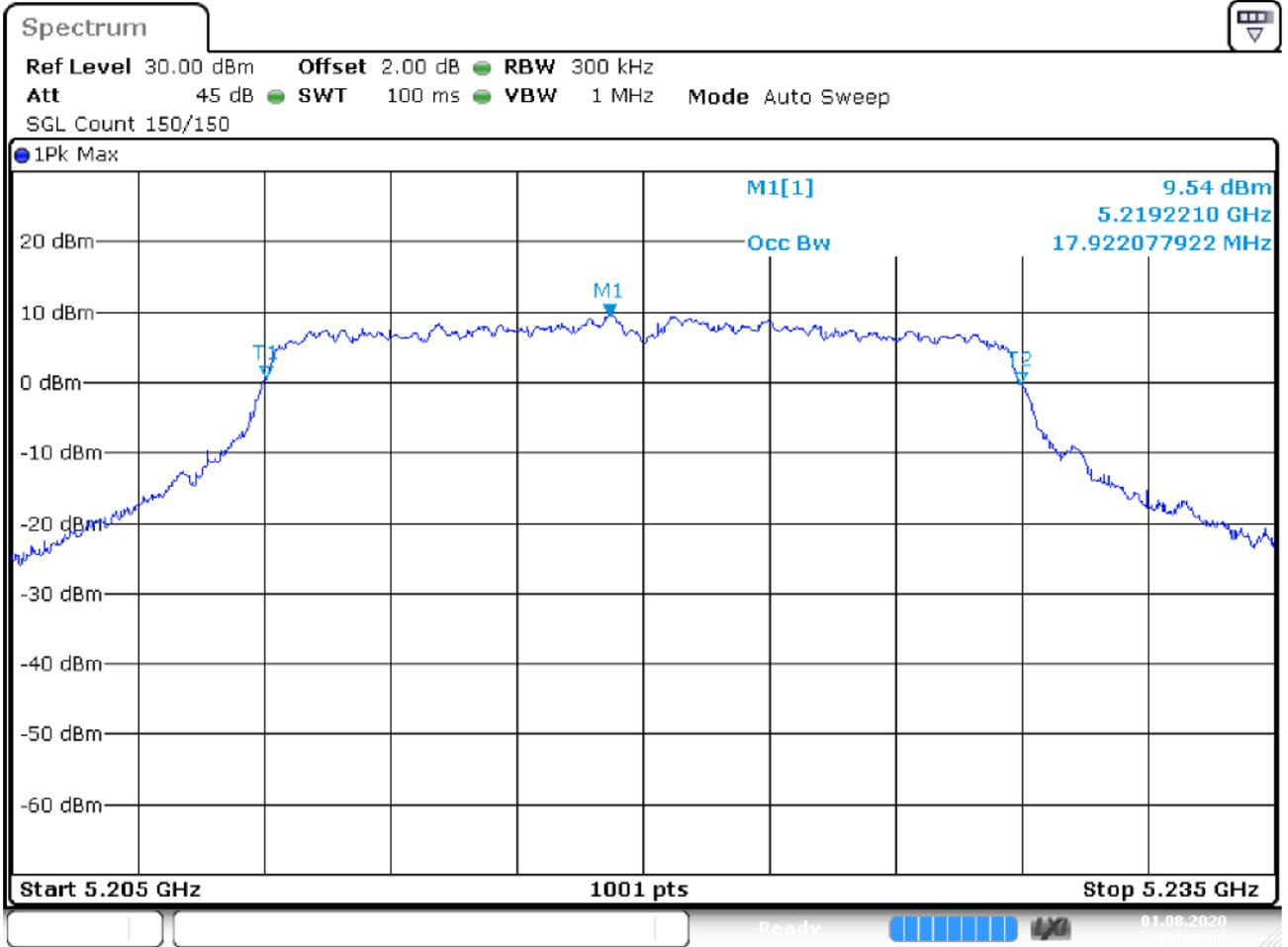


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**4.7.2.27 11N20MIMO\_44 ANT 1**



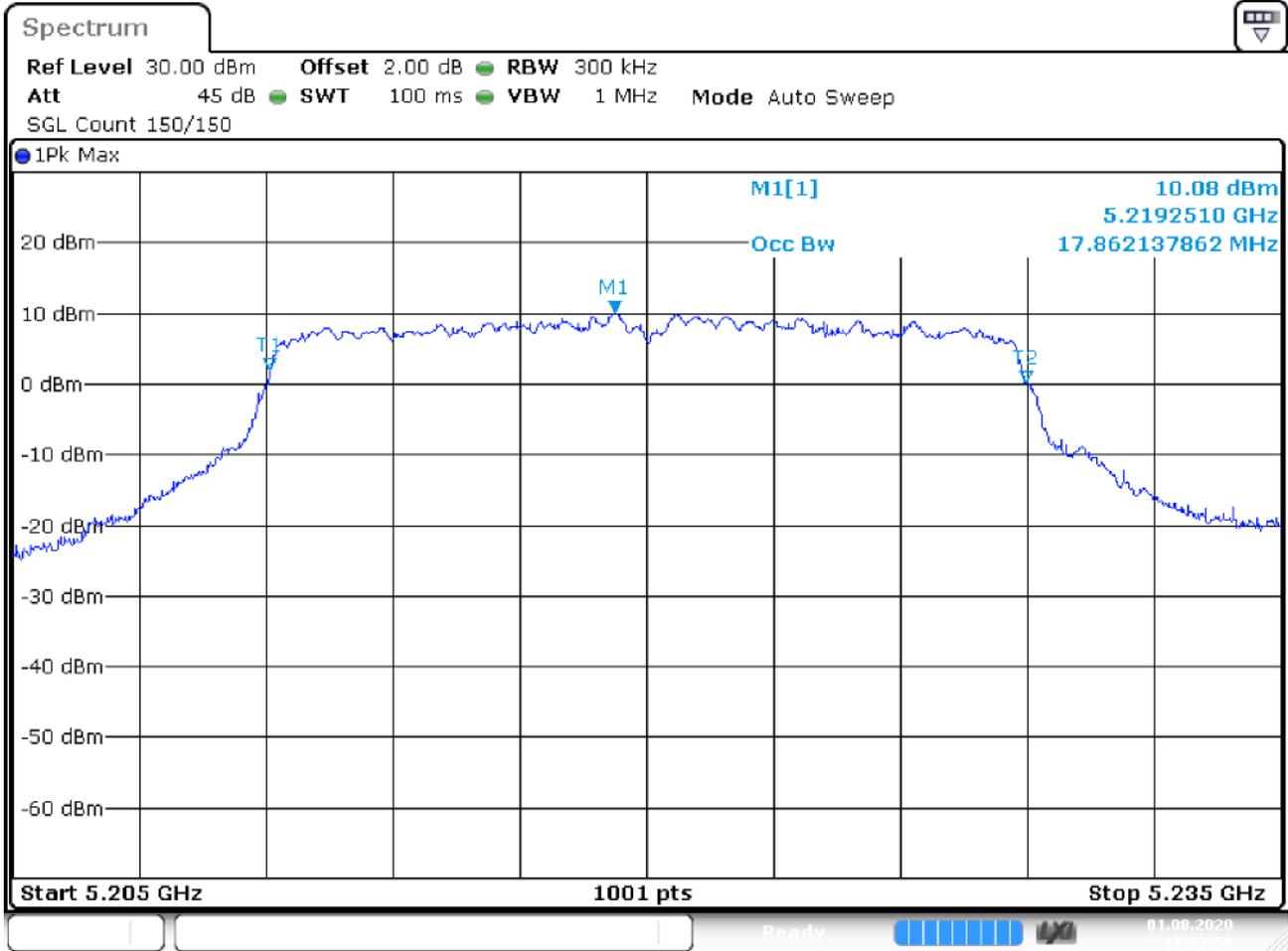
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**4.7.2.28 11N20MIMO\_44 ANT 2**



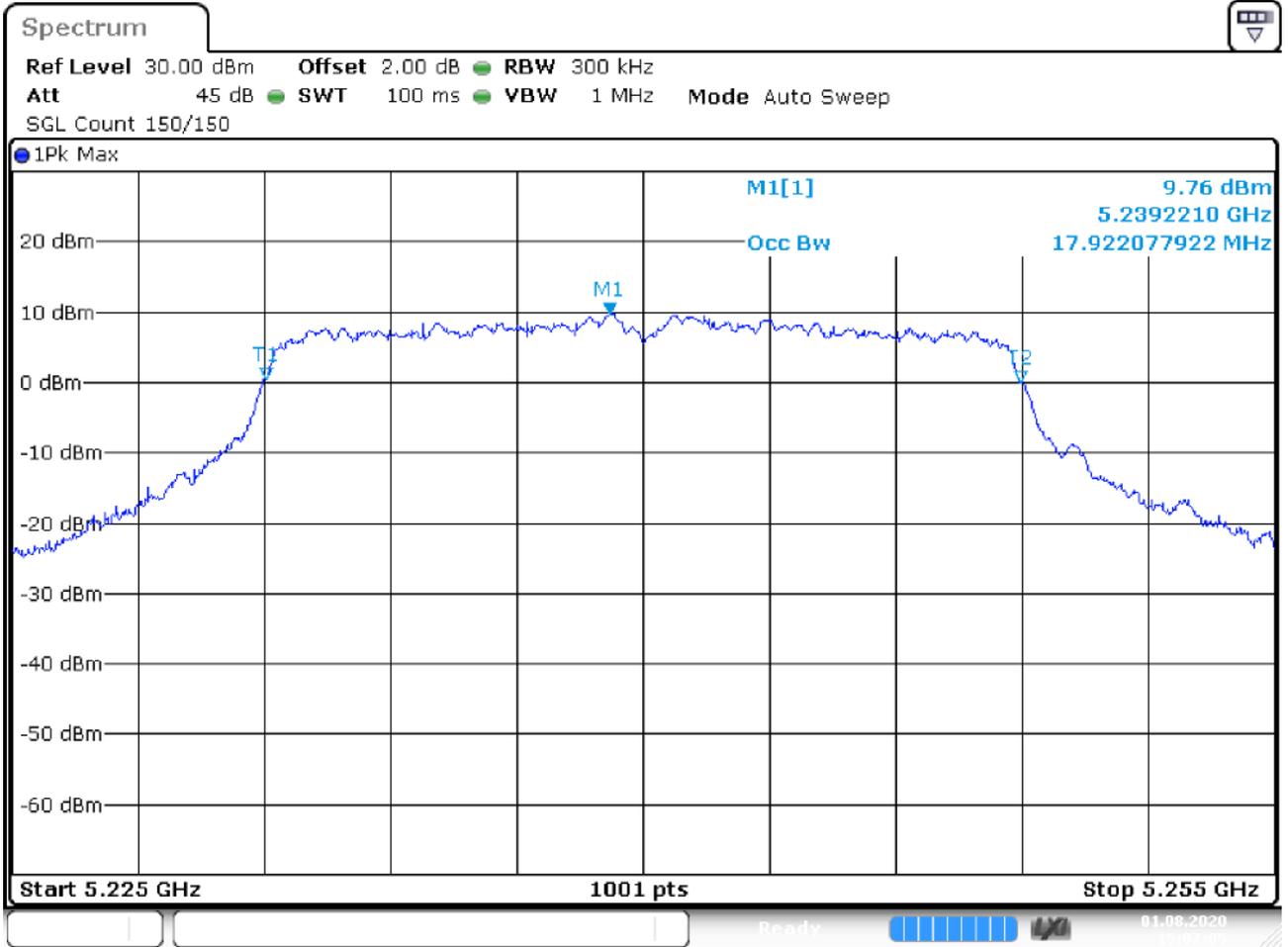
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**4.7.2.29 11N20MIMO\_48 ANT 1**



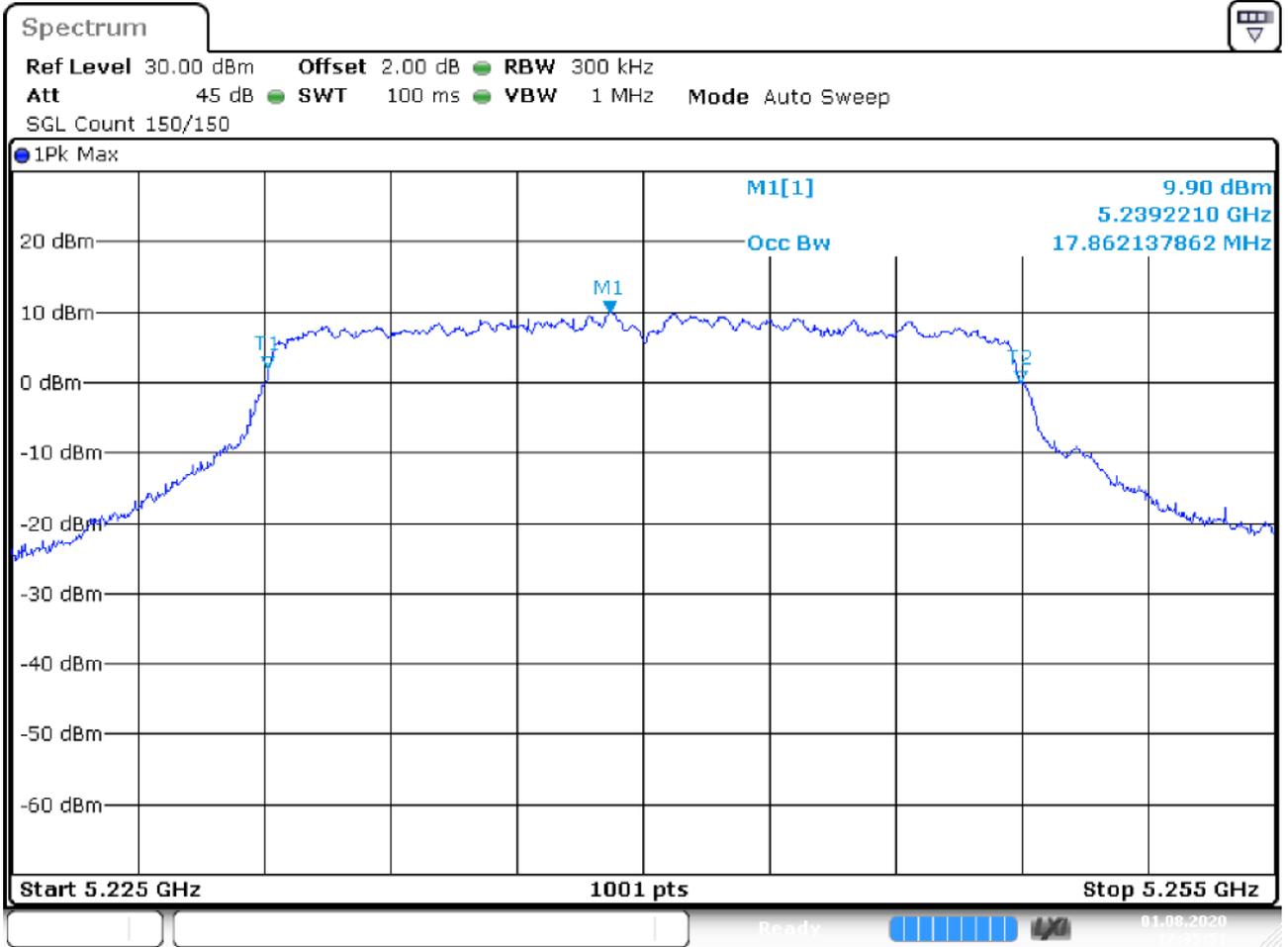
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**4.7.2.30 11N20MIMO\_48 ANT 2**

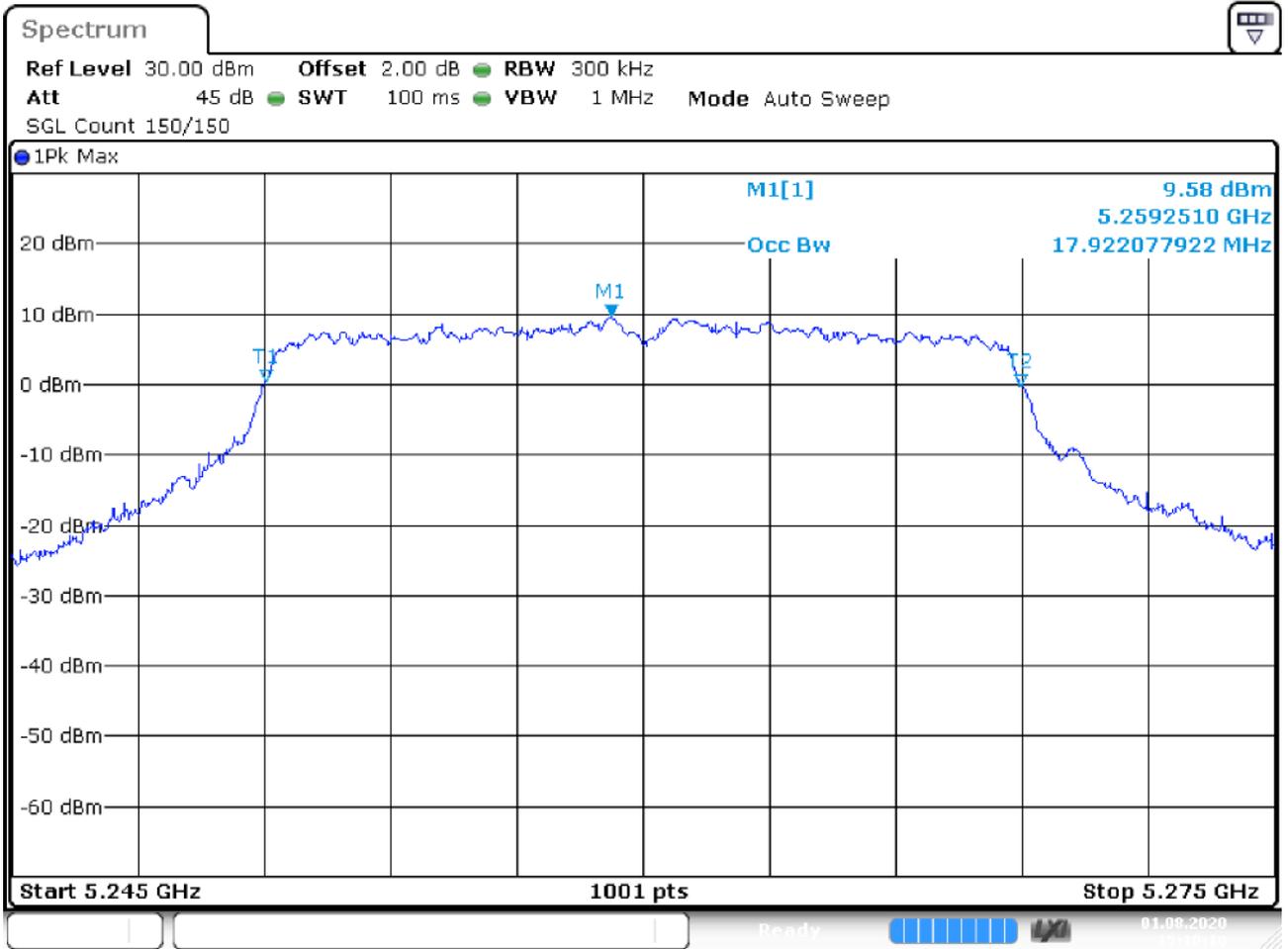


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4.7.2.31 11N20MIMO\_52 ANT 1



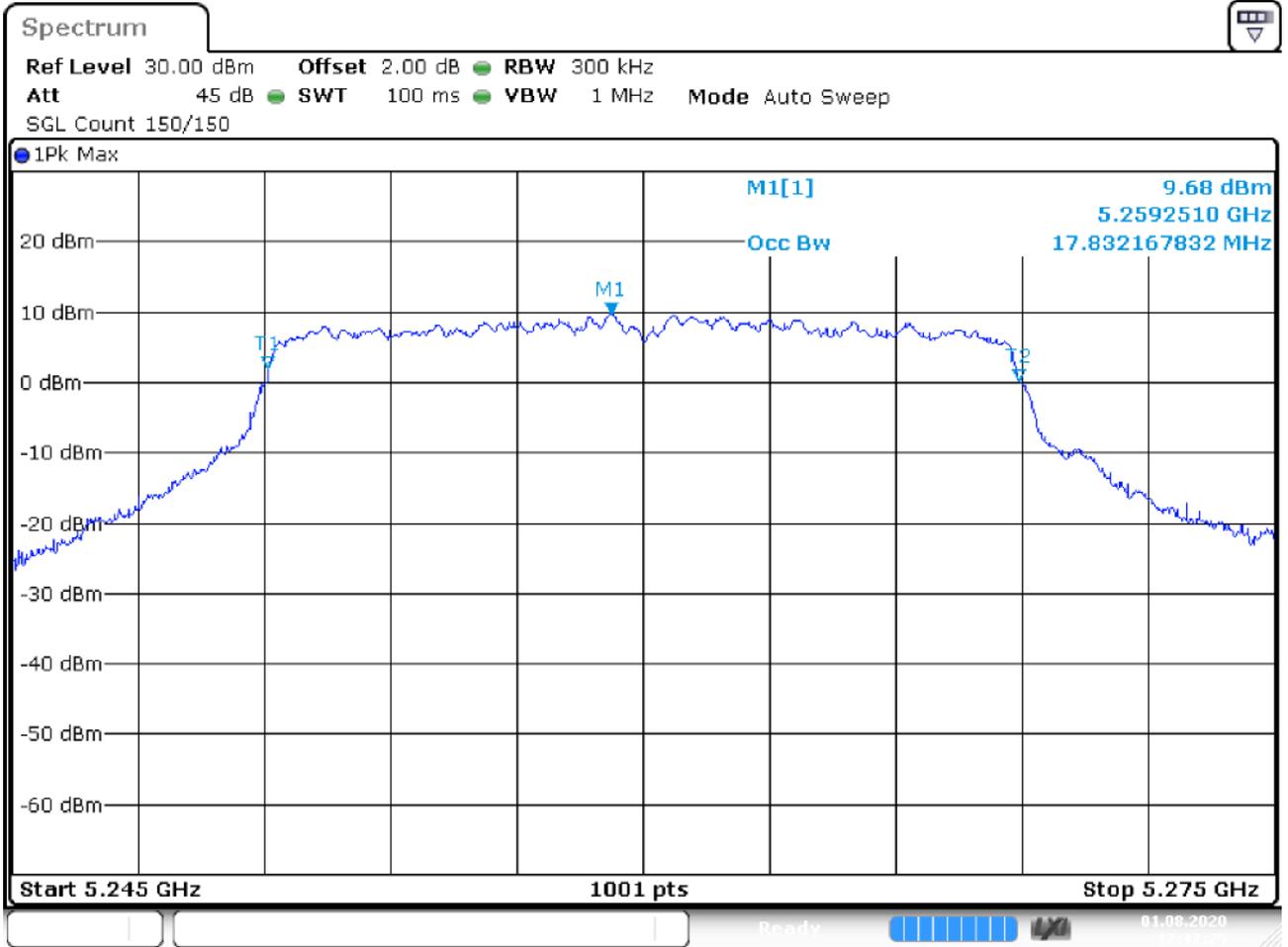
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4.7.2.32 11N20MIMO\_52 ANT 2

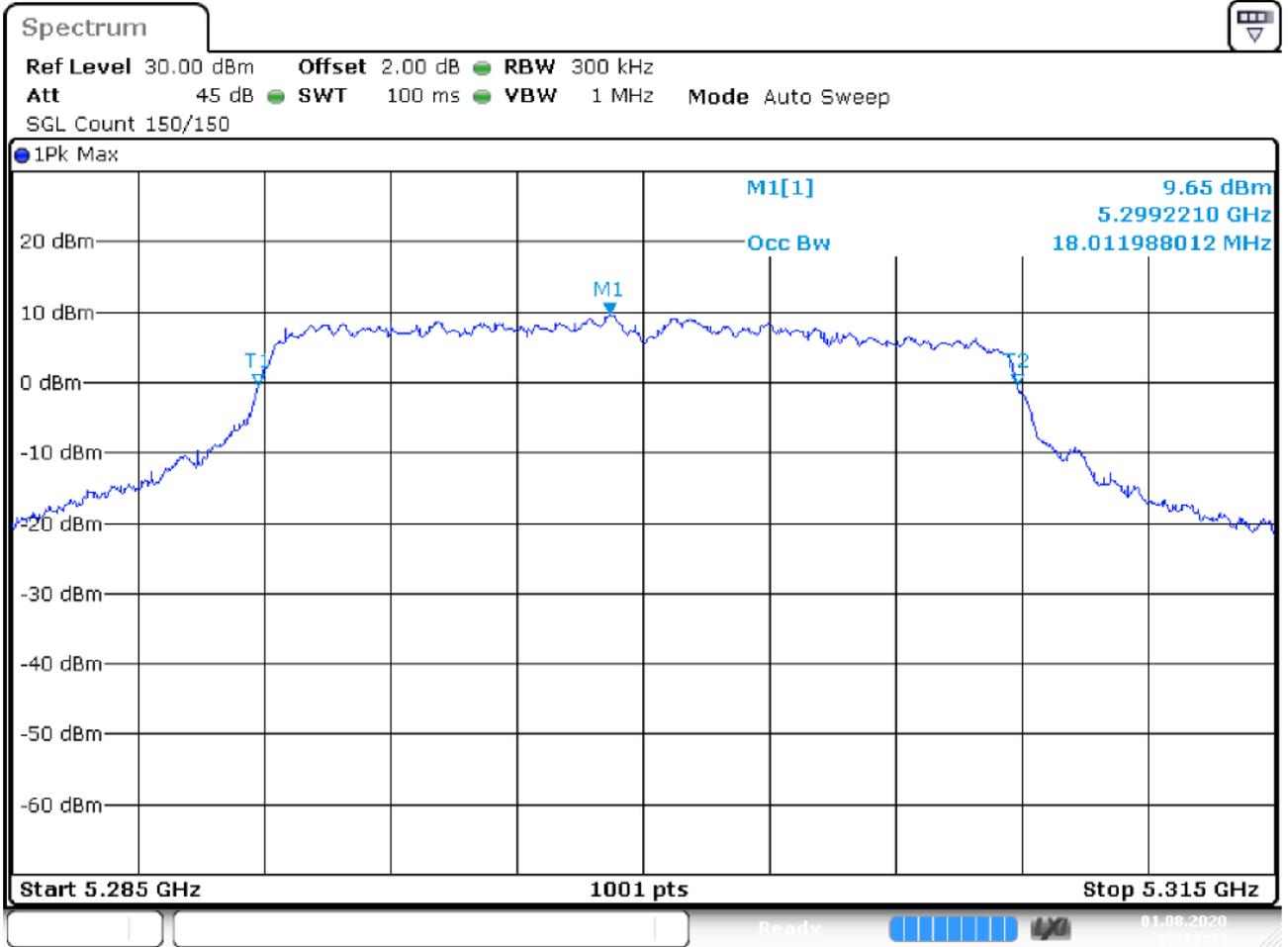


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**4.7.2.33 11N20MIMO\_60 ANT 1**



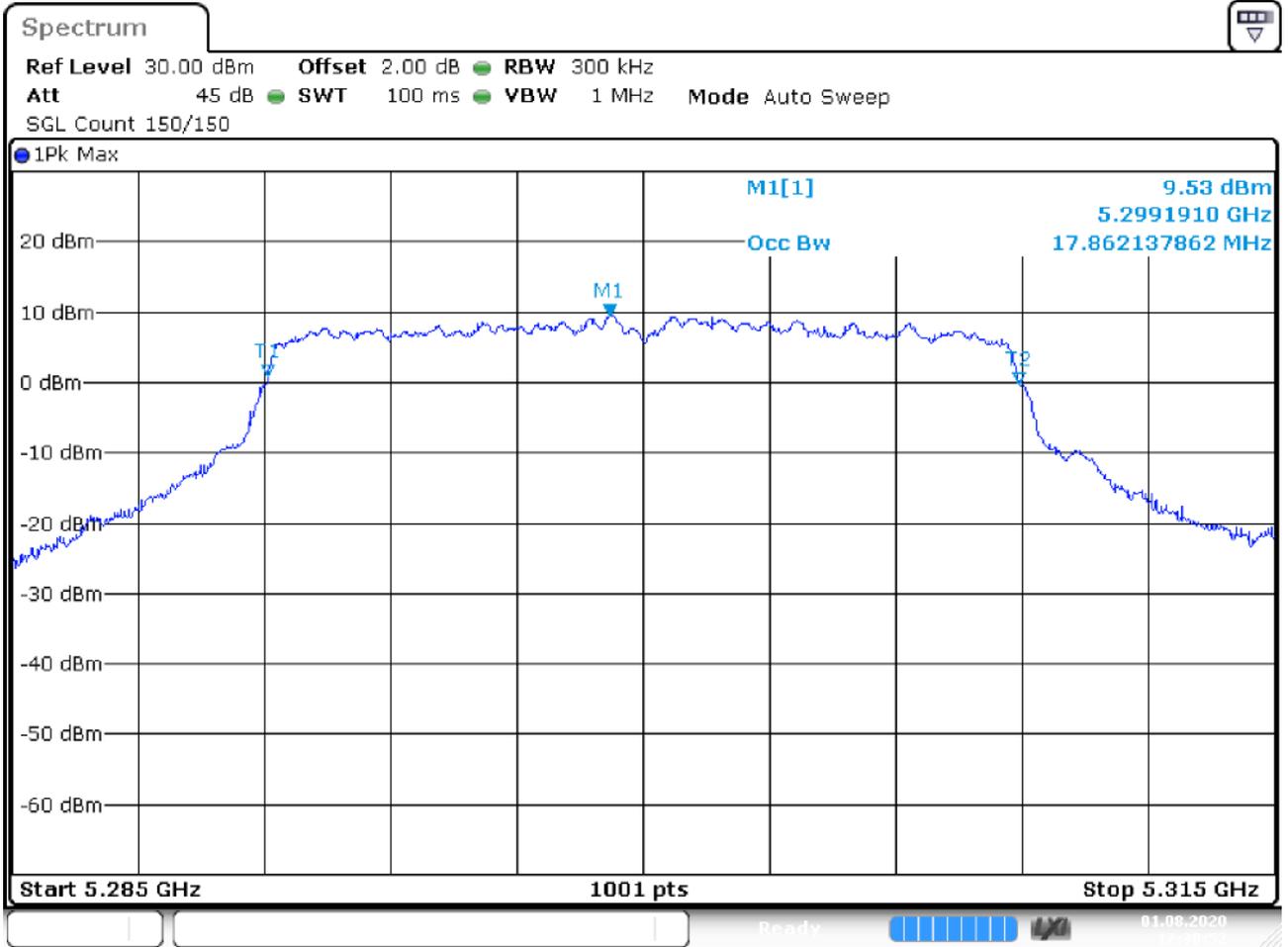
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**4.7.2.34 11N20MIMO\_60 ANT 2**



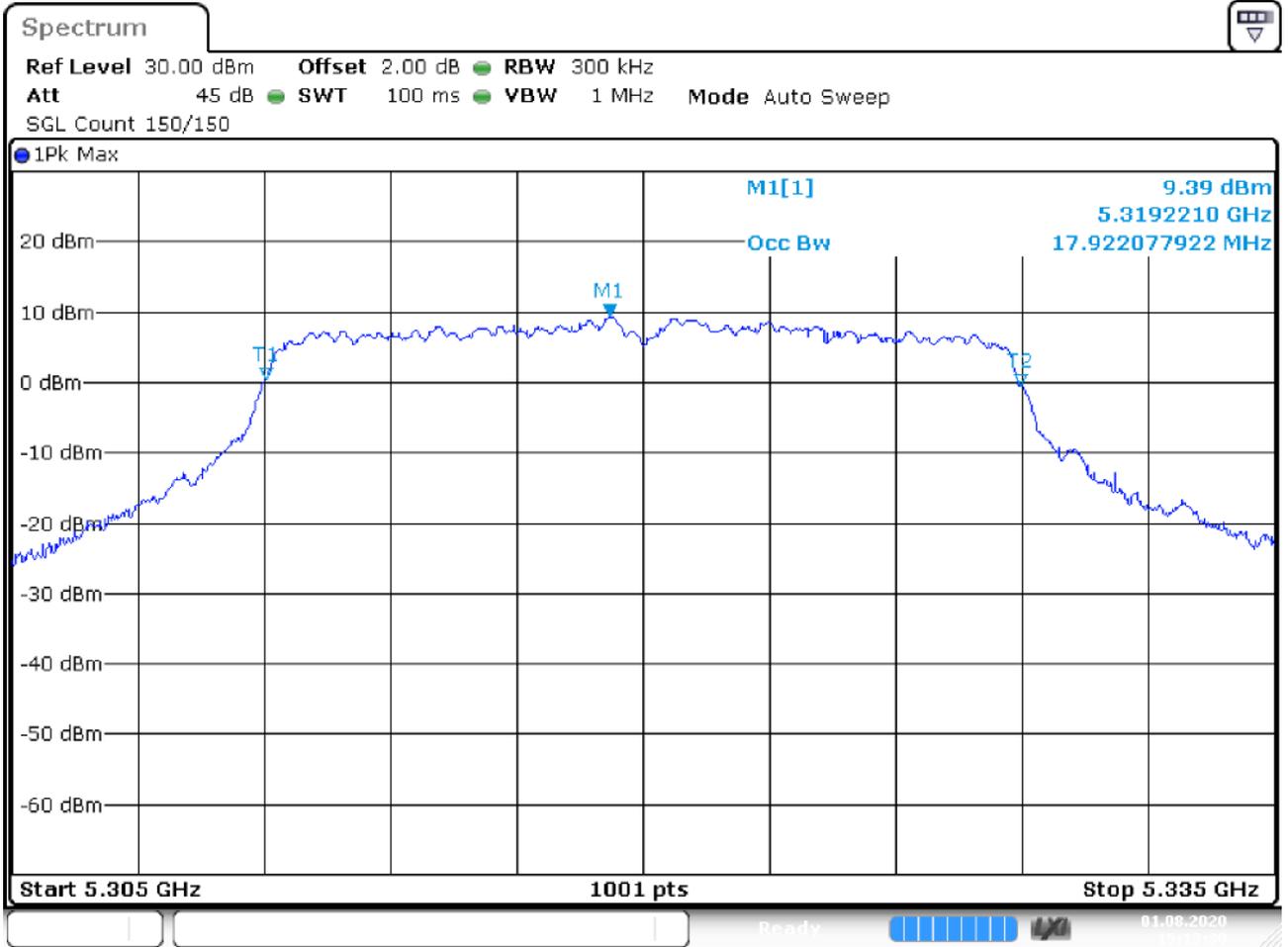
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4.7.2.35 11N20MIMO\_64 ANT 1



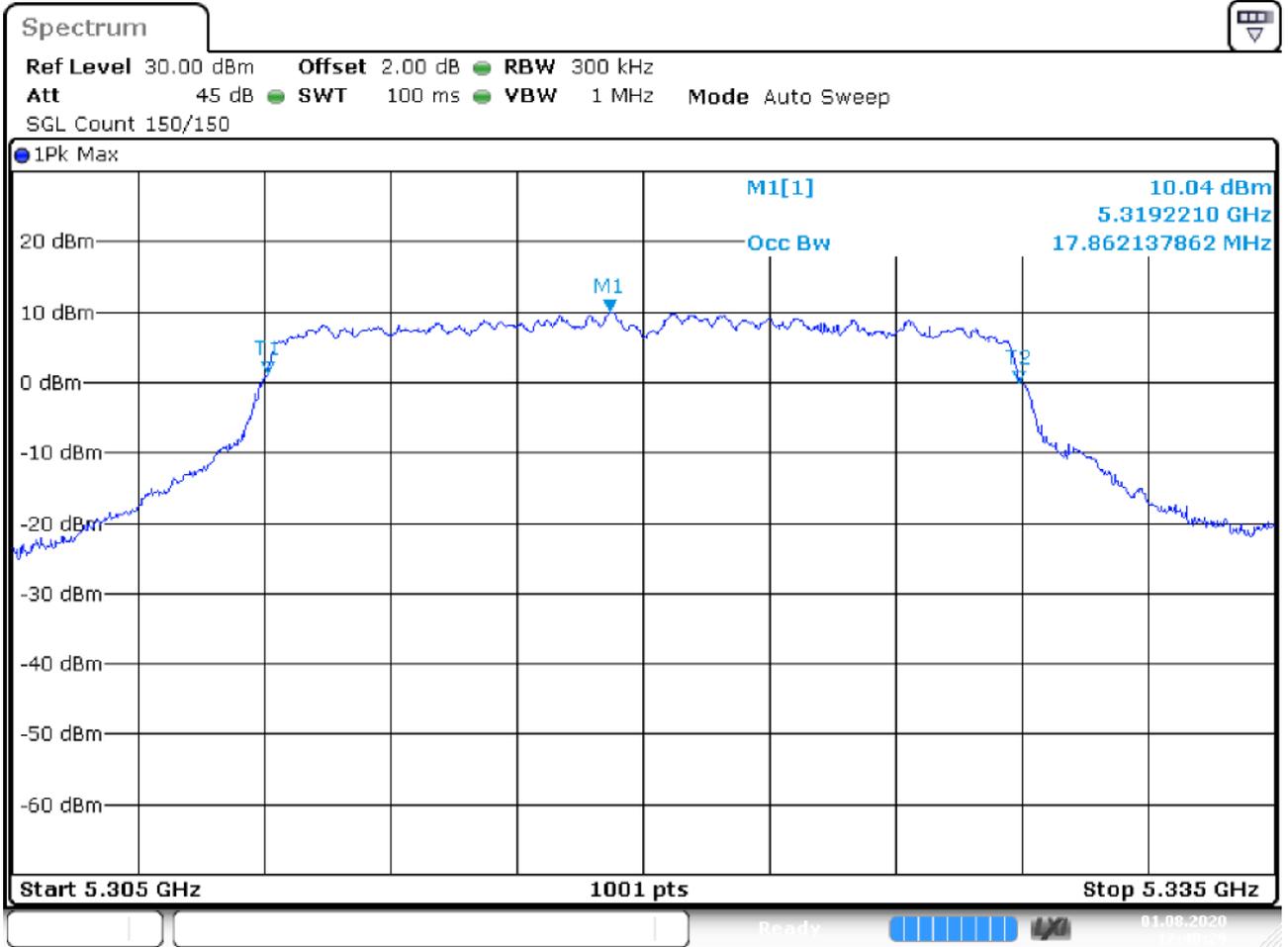
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4.7.2.36 11N20MIMO\_64 ANT 2

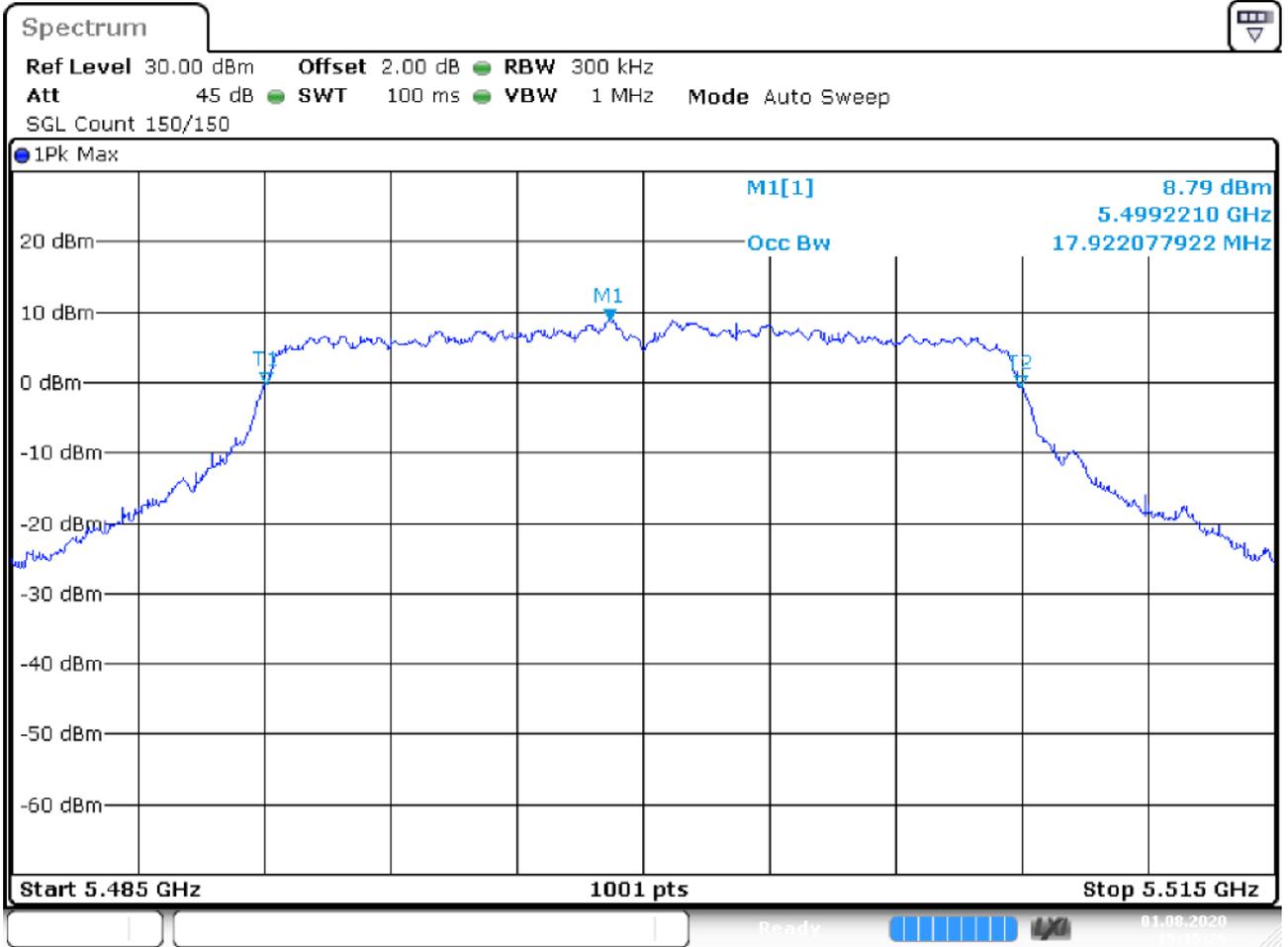


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4.7.2.37 11N20MIMO\_100 ANT 1

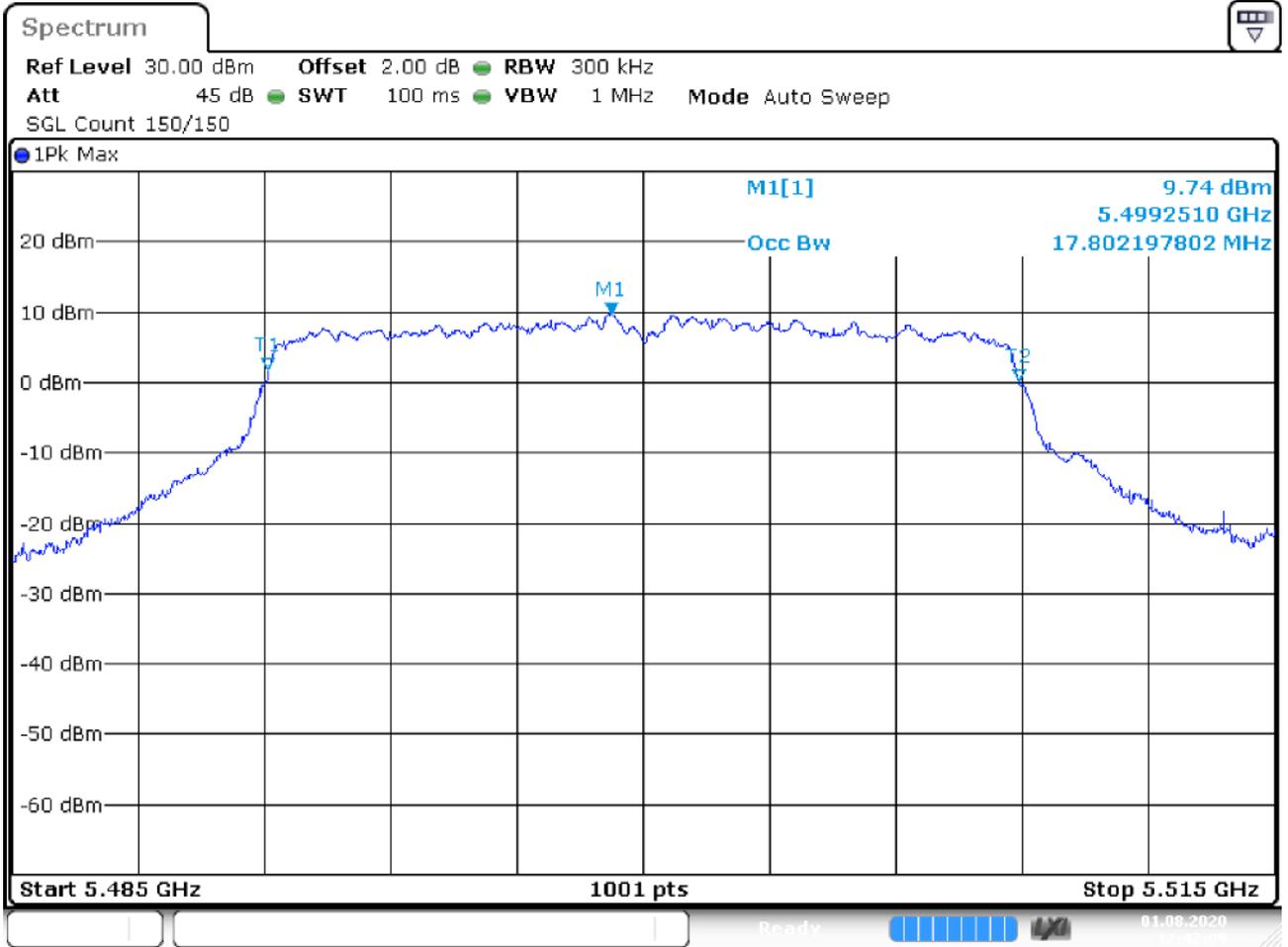


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4.7.2.38 11N20MIMO\_100 ANT 2



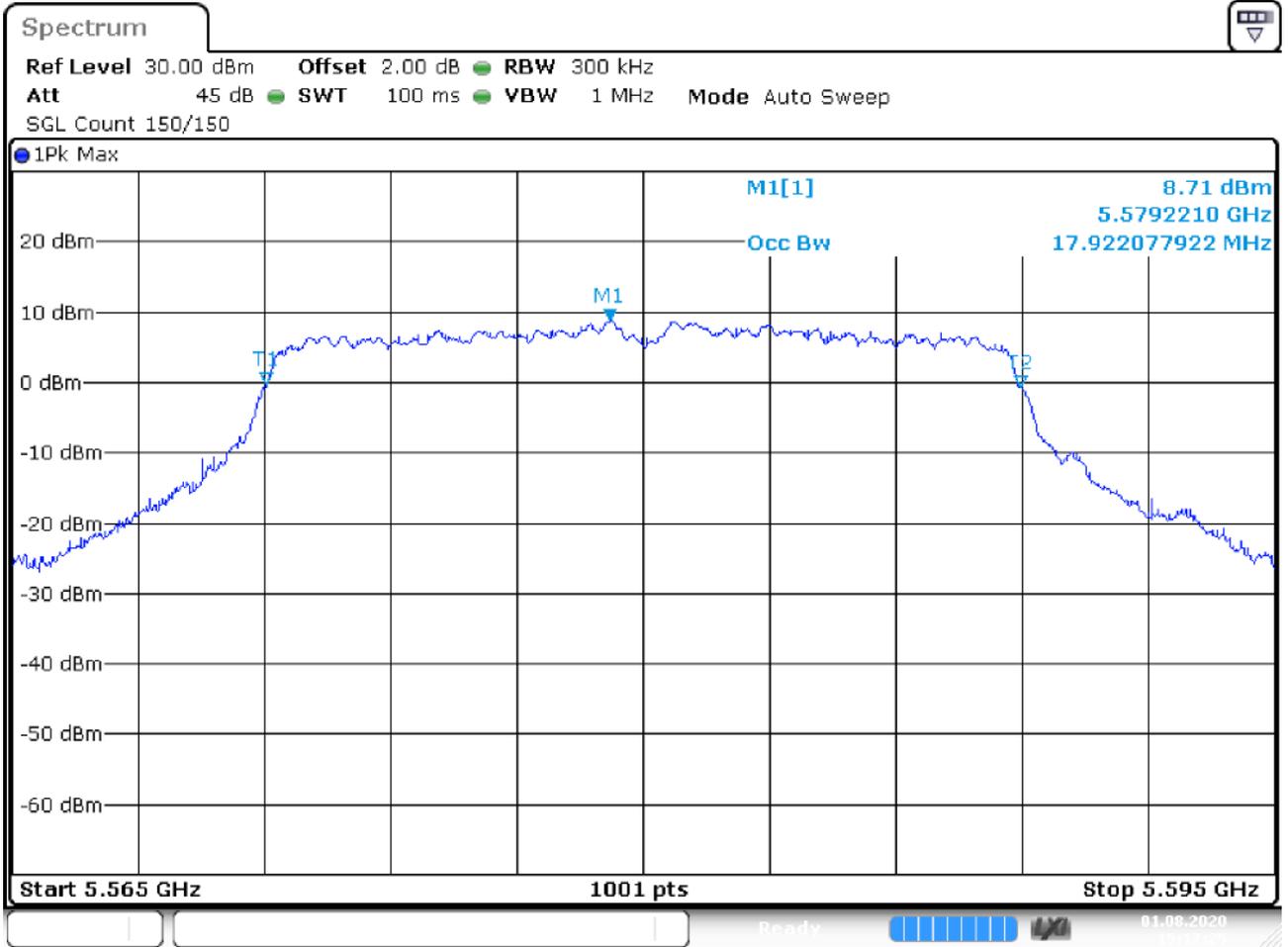
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4.7.2.39 11N20MIMO\_116 ANT 1



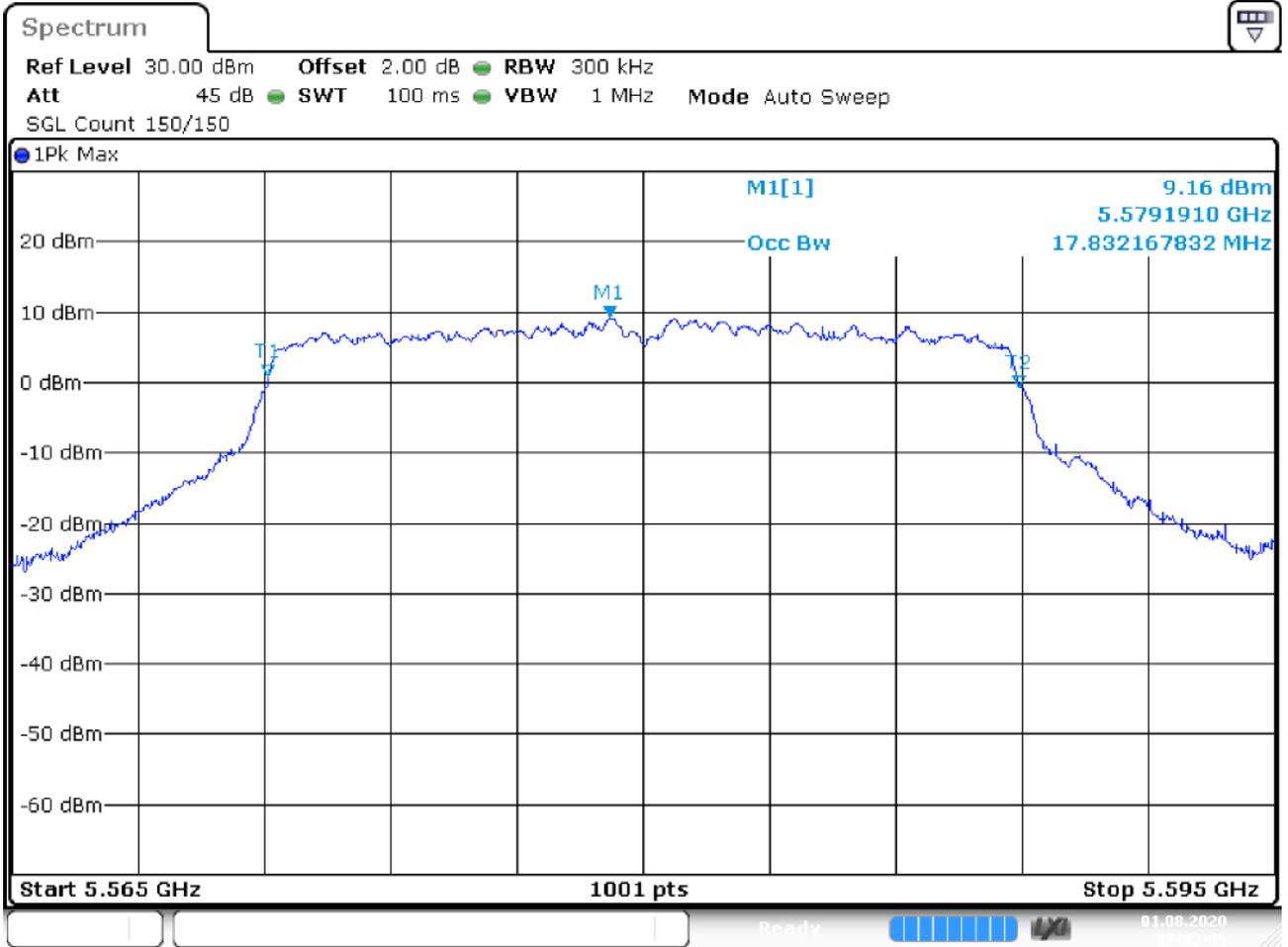
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4.7.2.40 11N20MIMO\_116 ANT 2



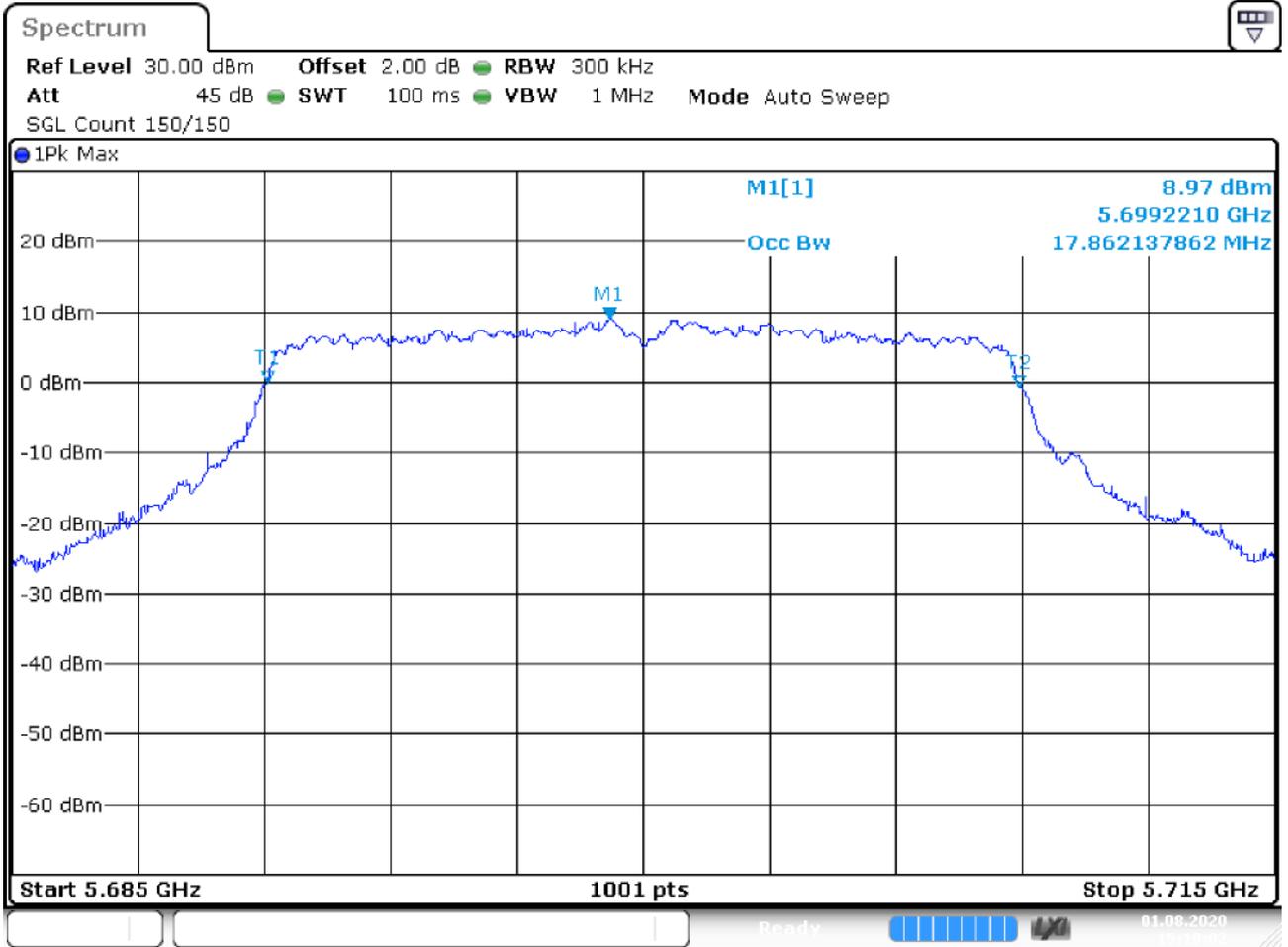
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**4.7.2.41 11N20MIMO\_140 ANT 1**



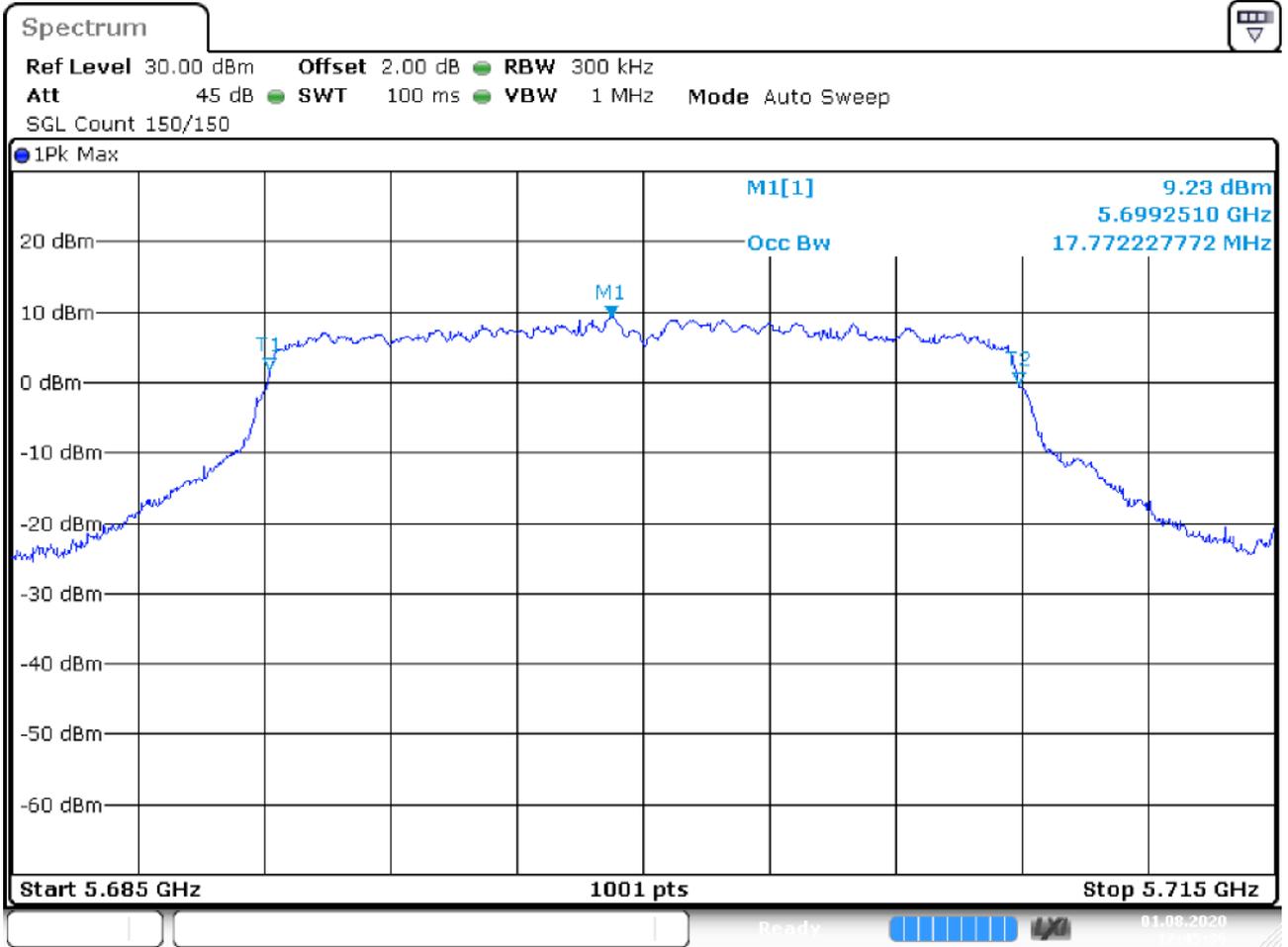
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4.7.2.42 11N20MIMO\_140 ANT 2

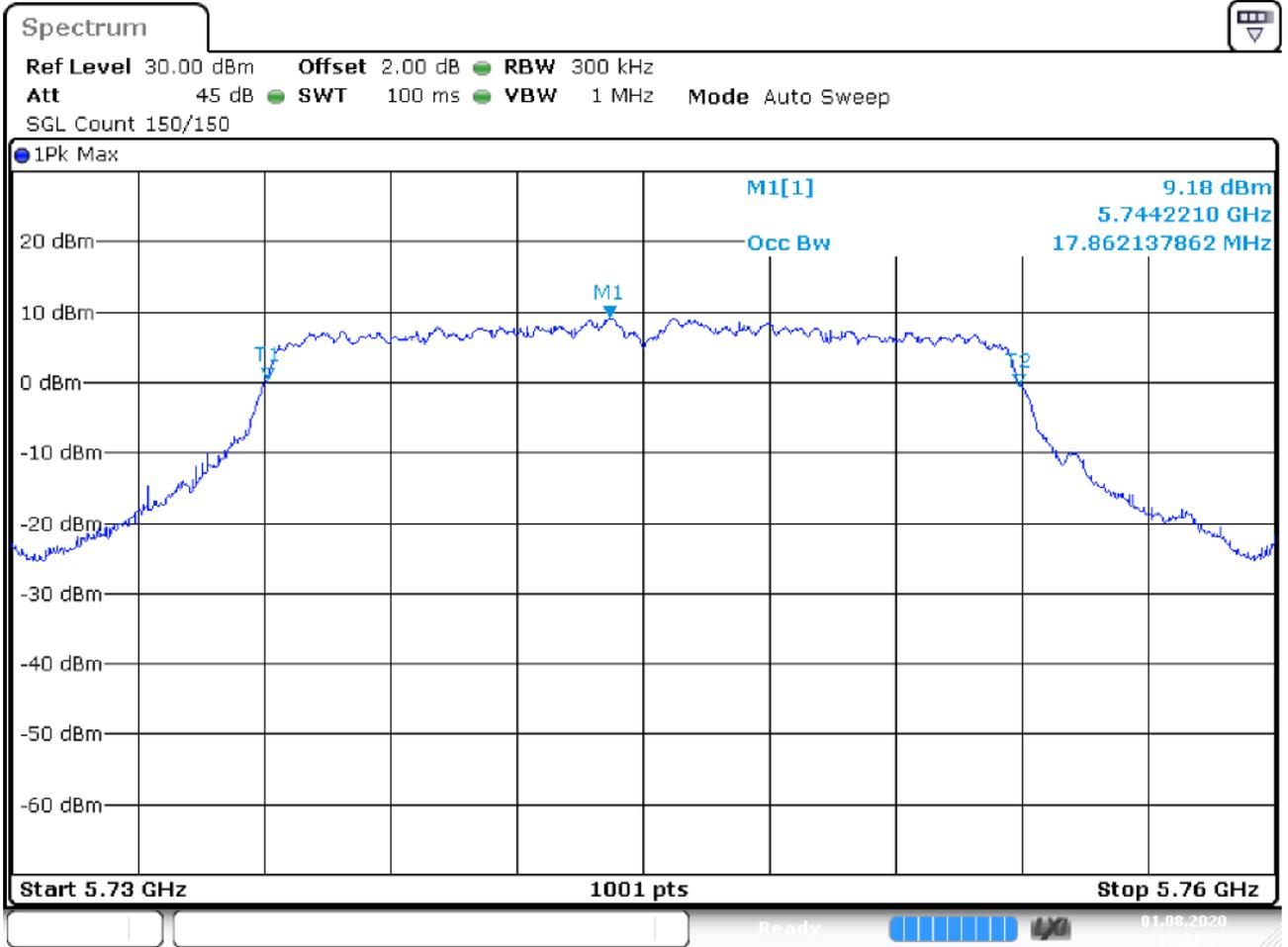


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**4.7.2.43 11N20MIMO\_149 ANT 1**



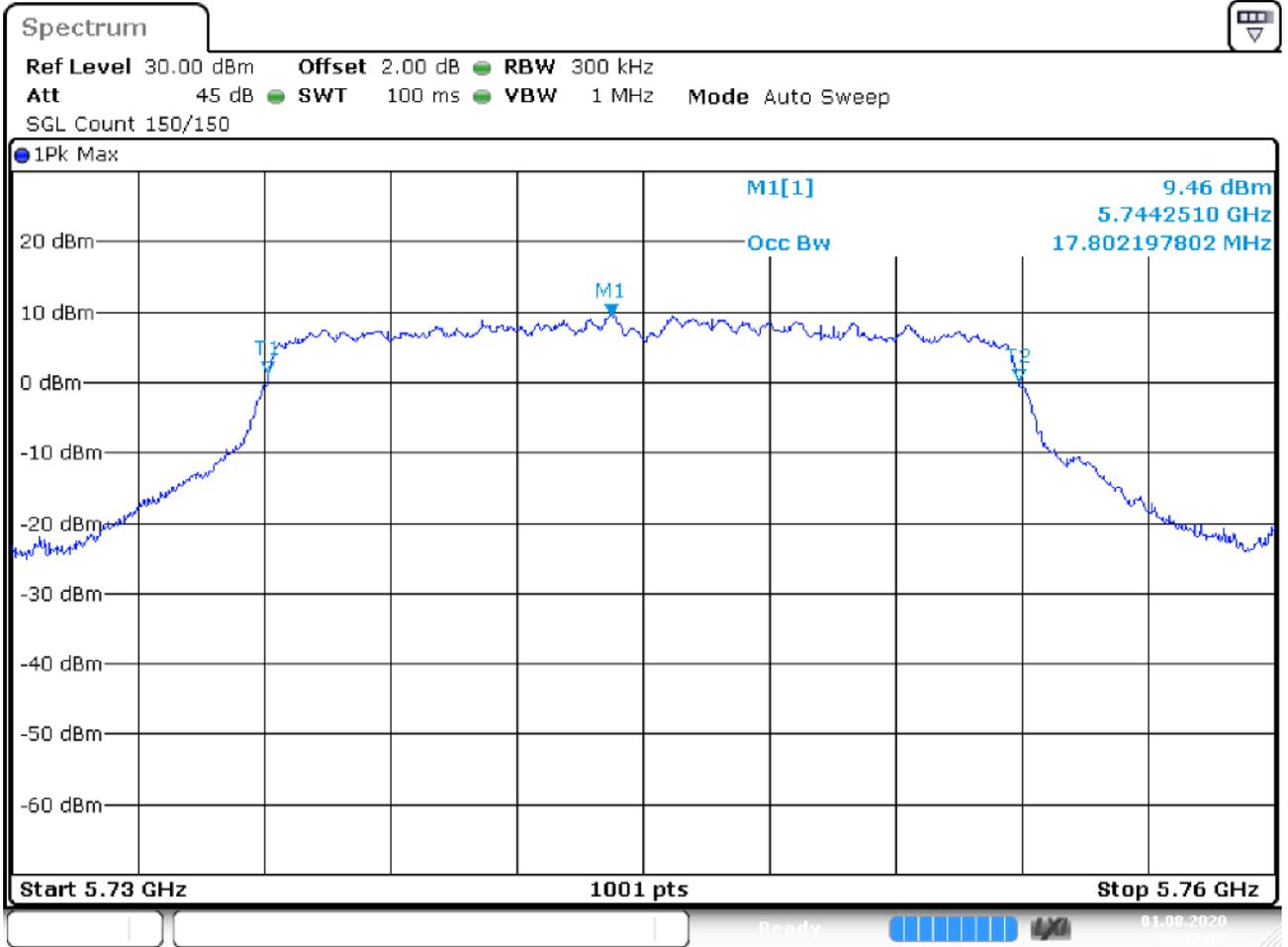
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4.7.2.44 11N20MIMO\_149 ANT 2

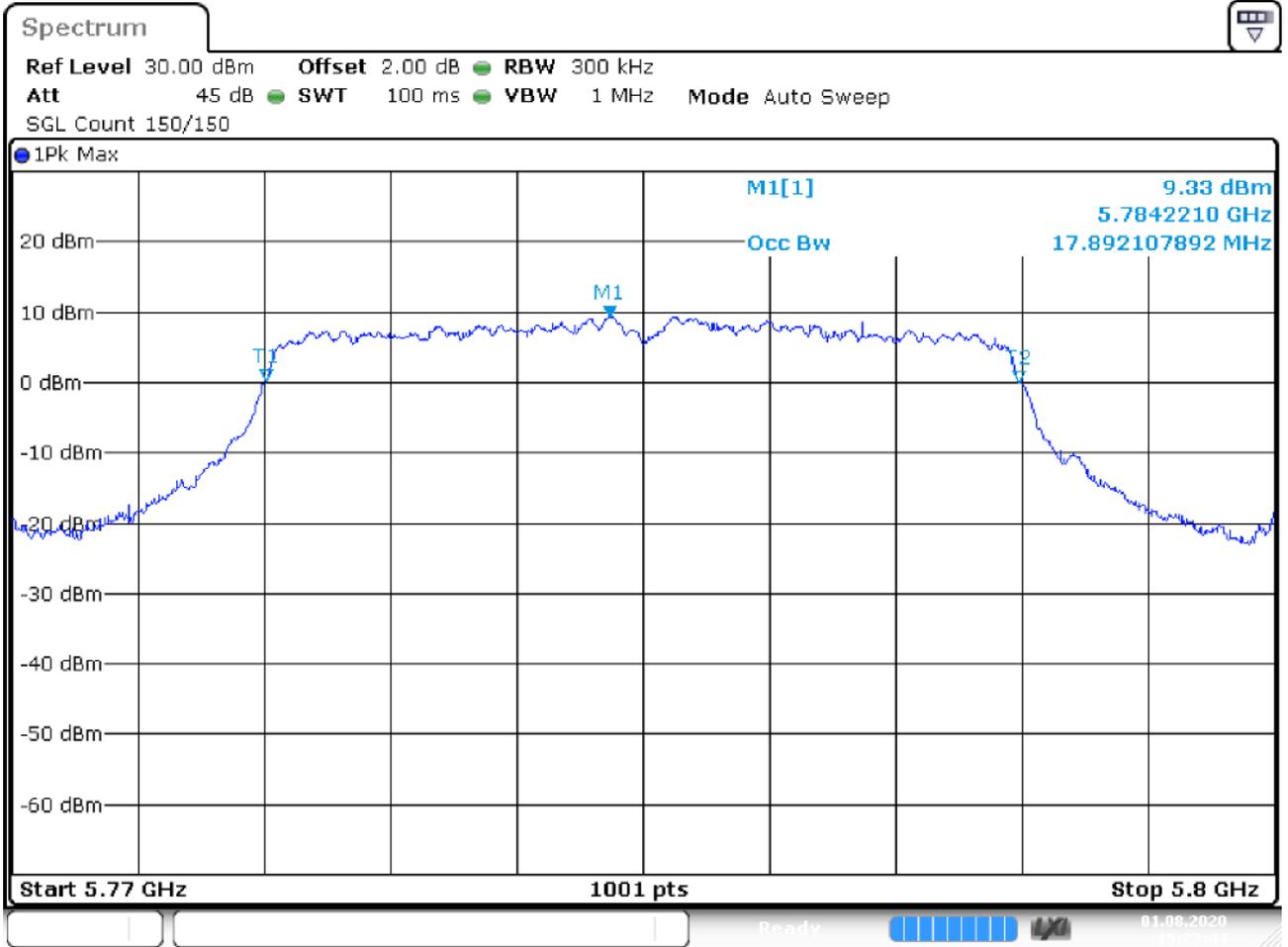


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4.7.2.45 11N20MIMO\_157 ANT 1



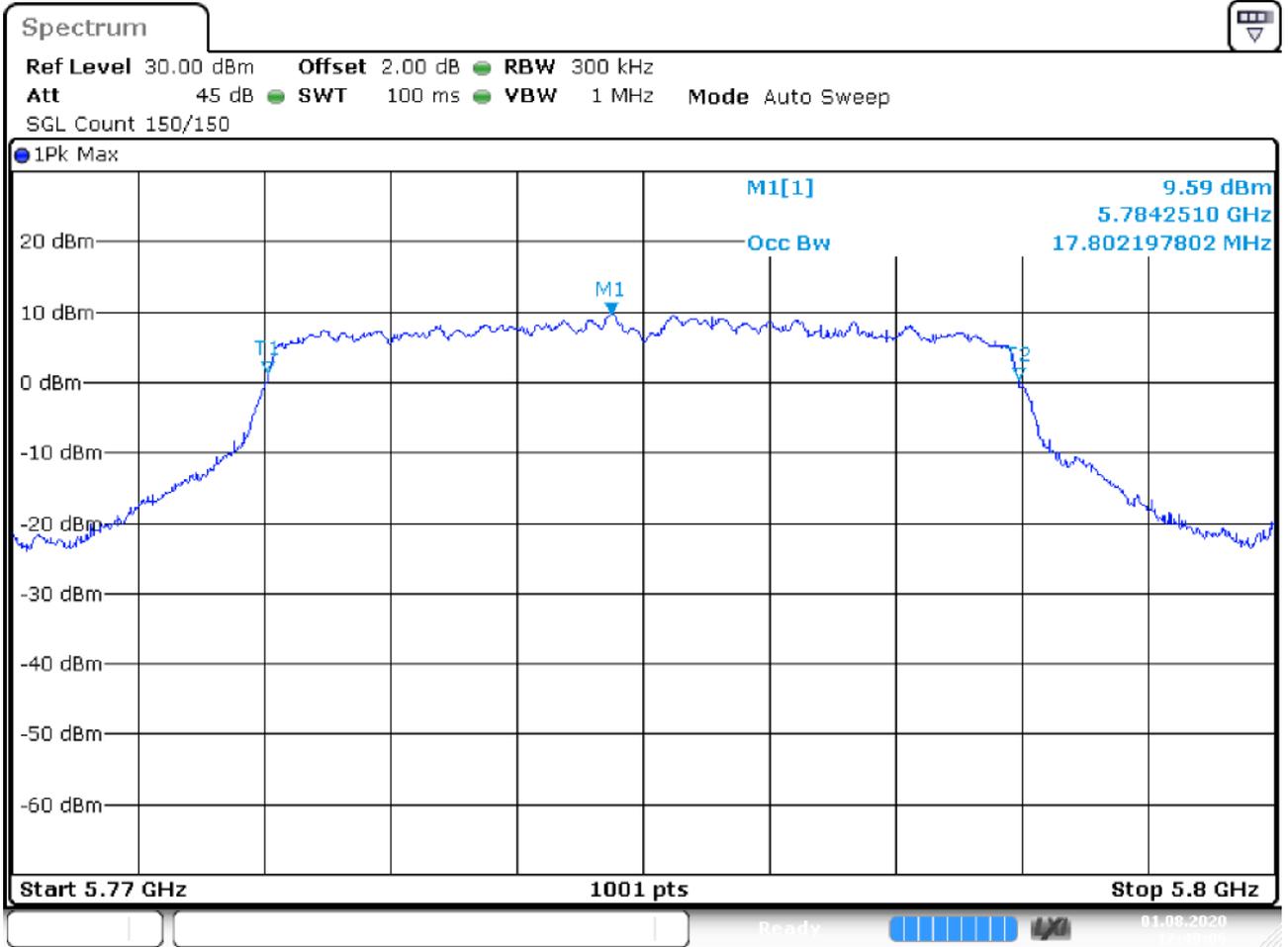
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4.7.2.46 11N20MIMO\_157 ANT 2



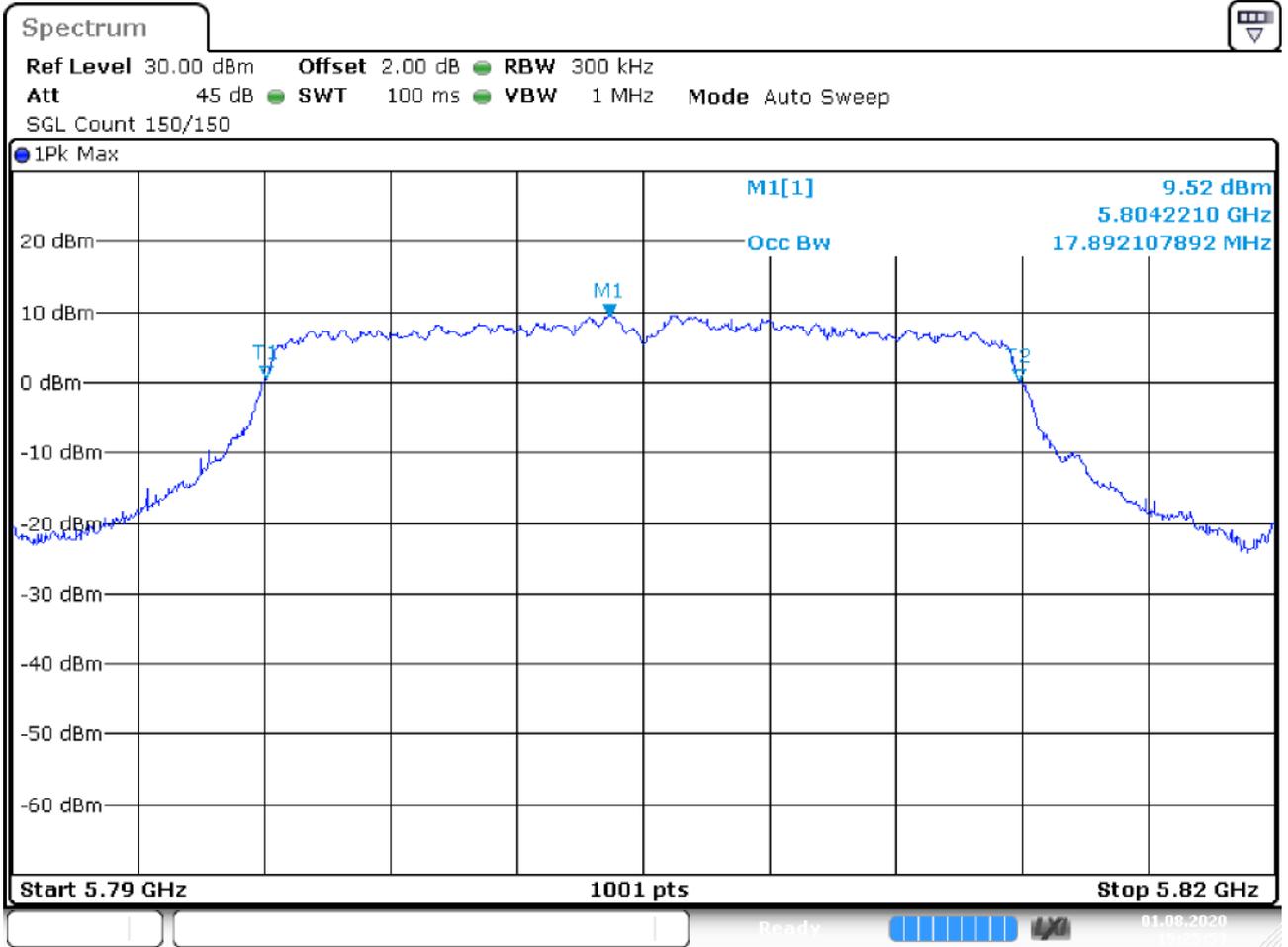
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**4.7.2.47 11N20MIMO\_161 ANT 1**



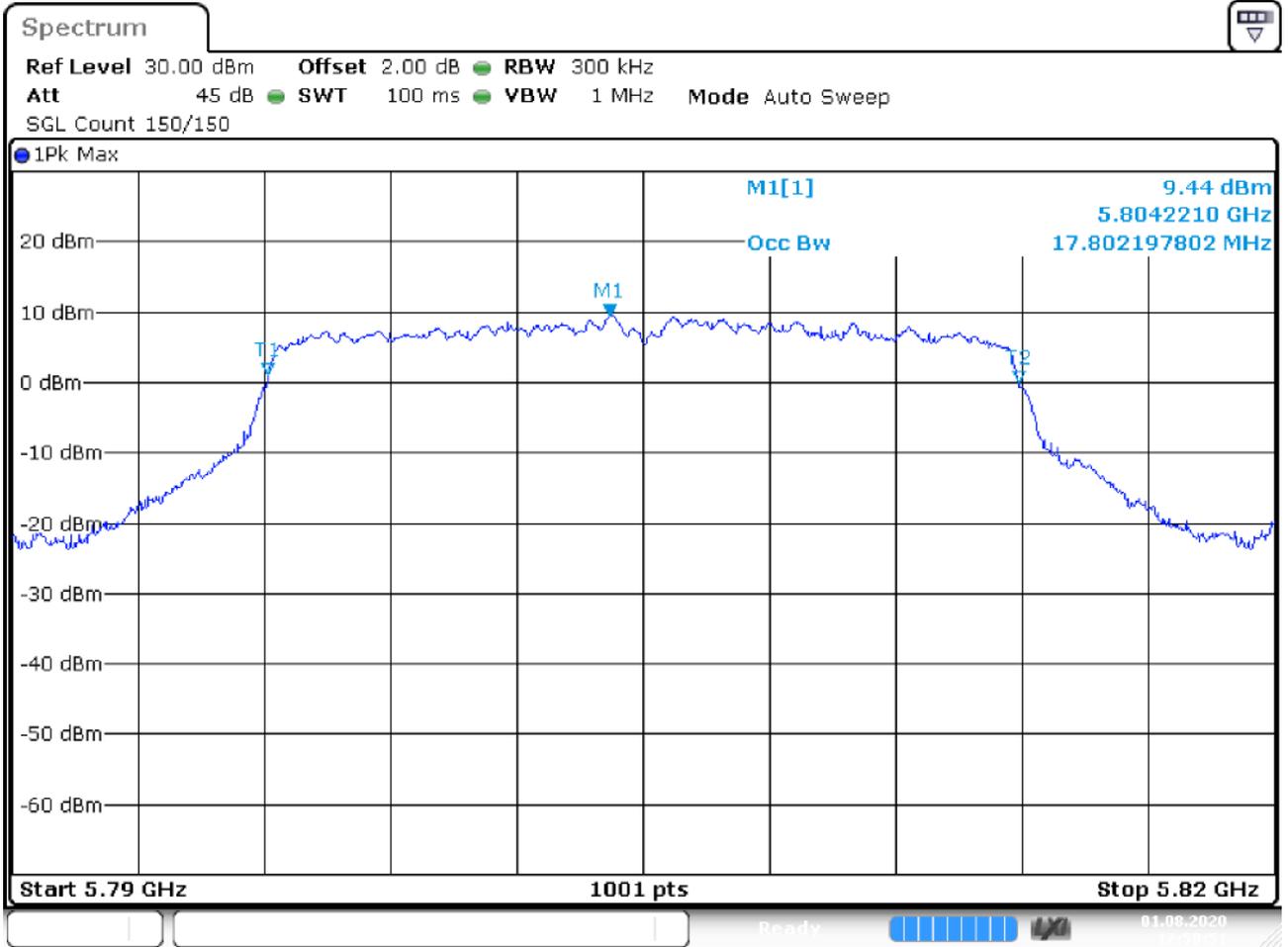
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4.7.2.48 11N20MIMO\_161 ANT 2

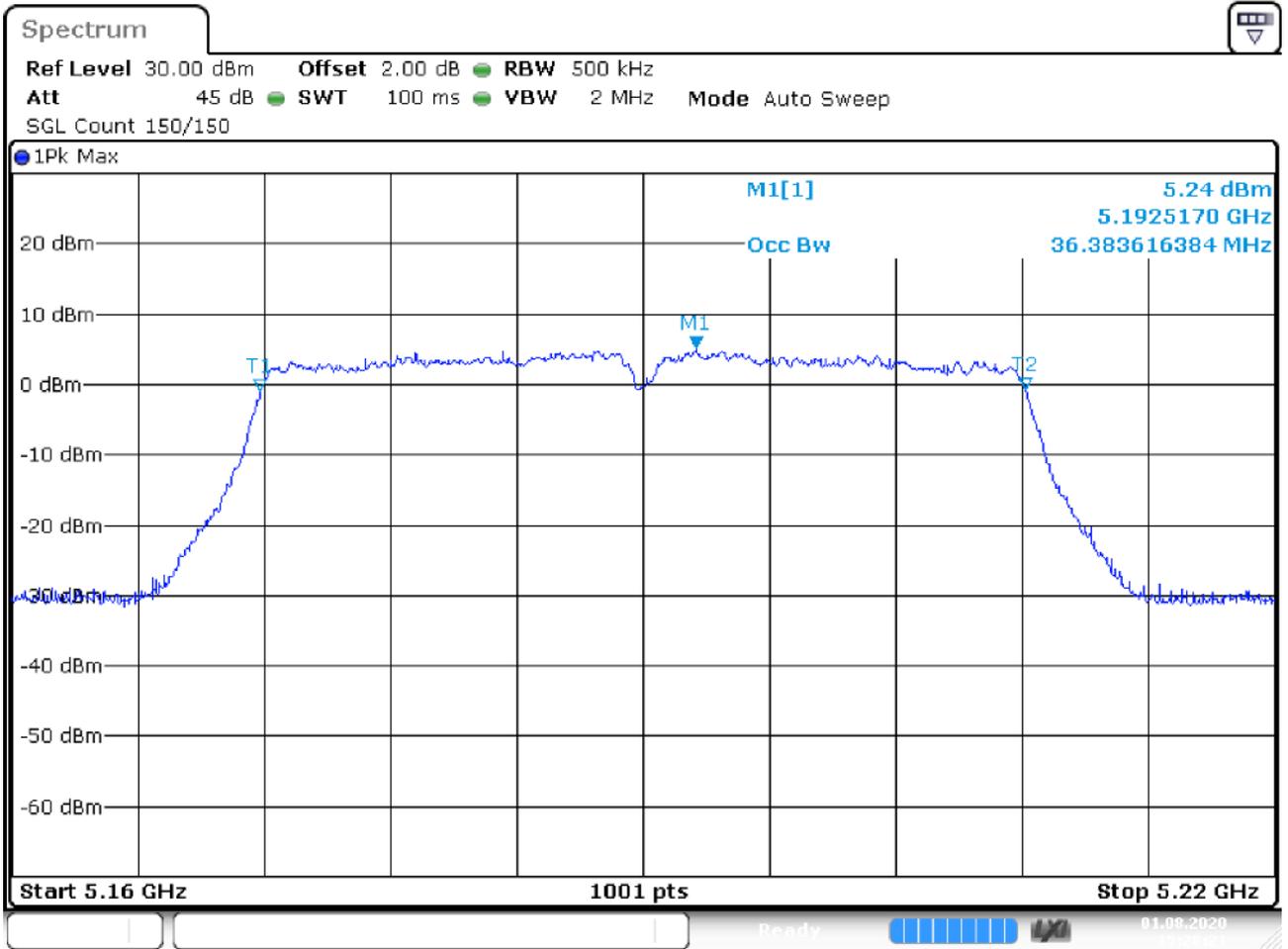


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4.7.2.49 11N40MIMO\_38 ANT 1



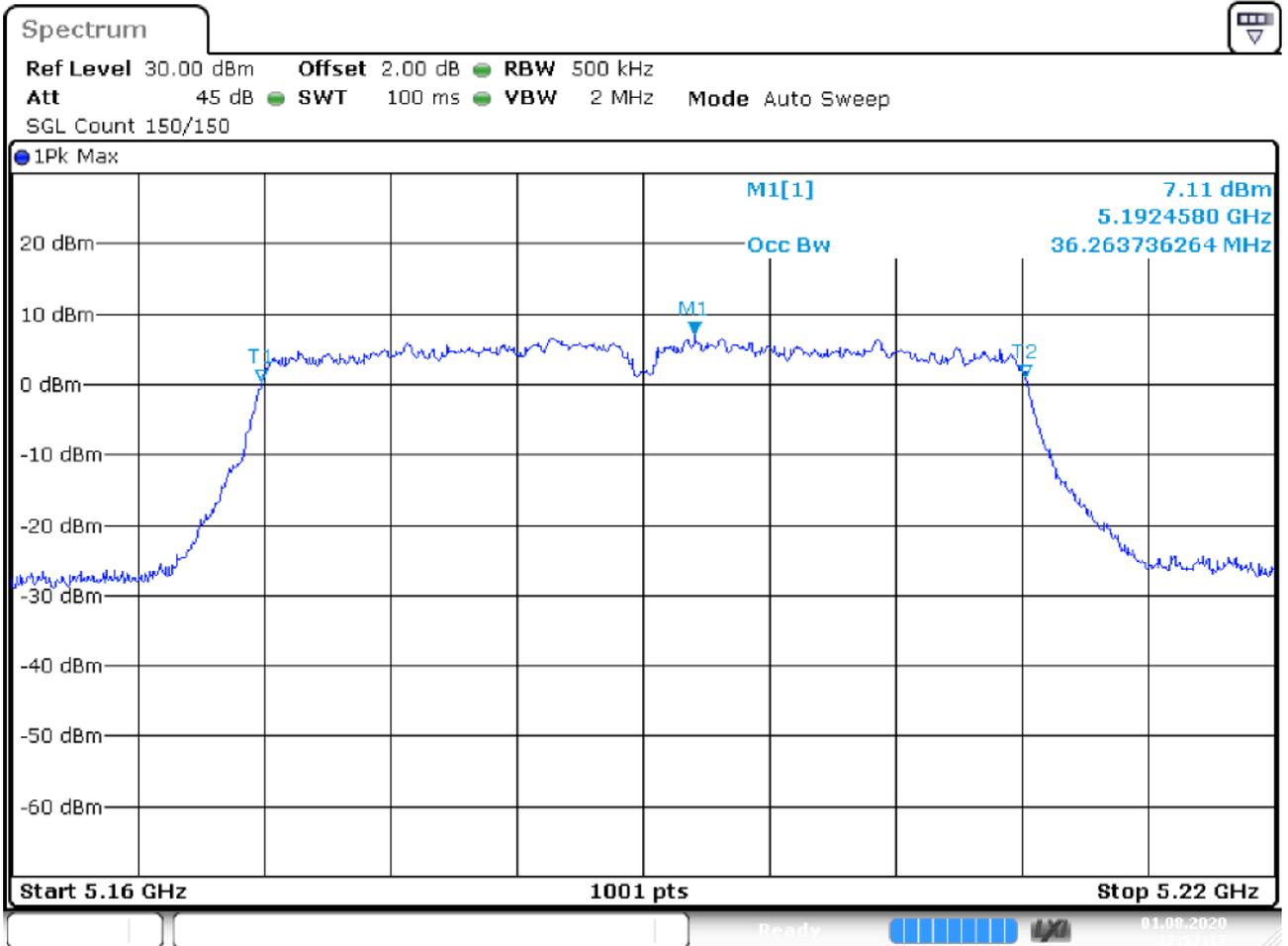
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4.7.2.50 11N40MIMO\_38 ANT 2



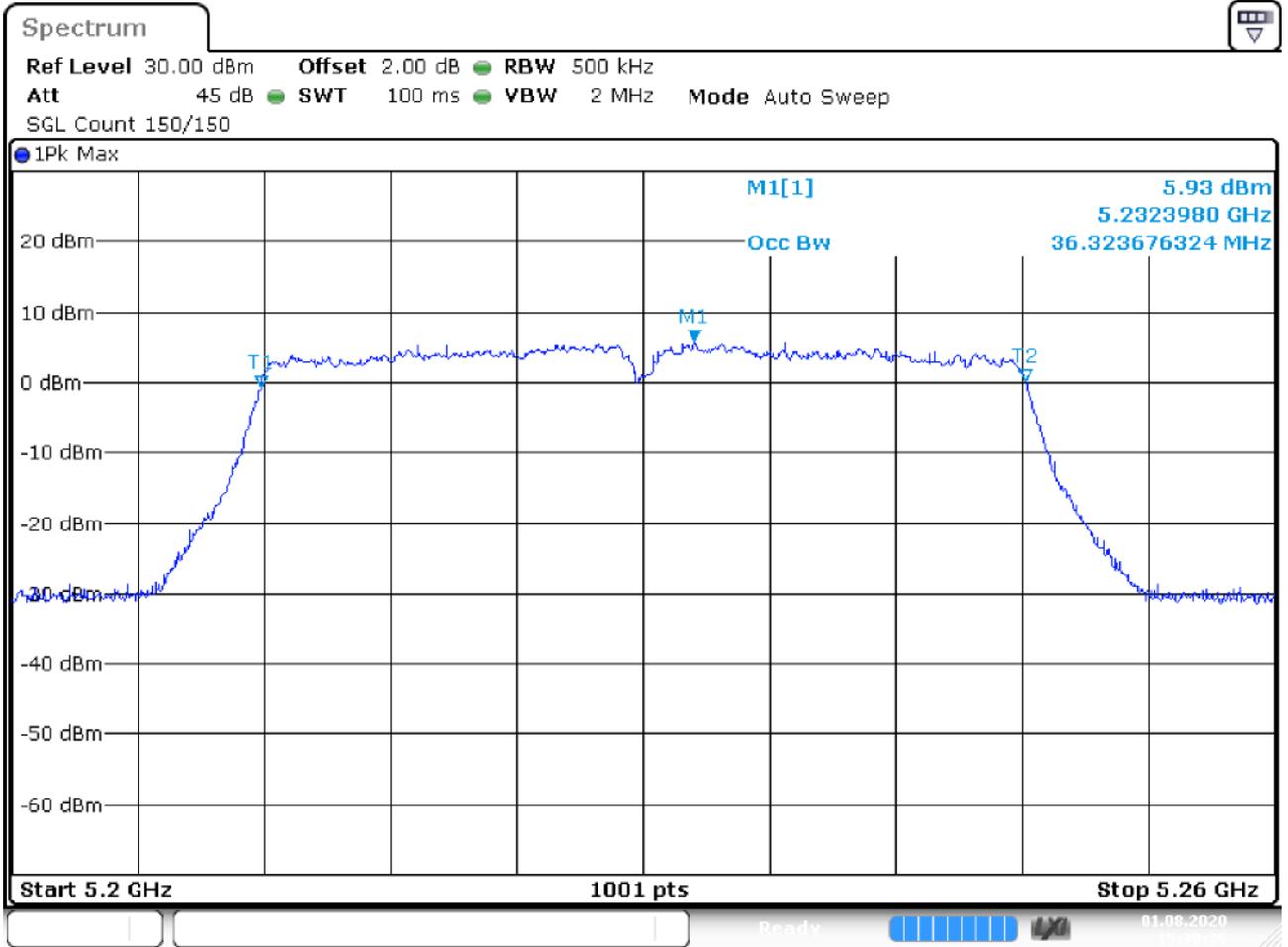
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4.7.2.51 11N40MIMO\_46 ANT 1



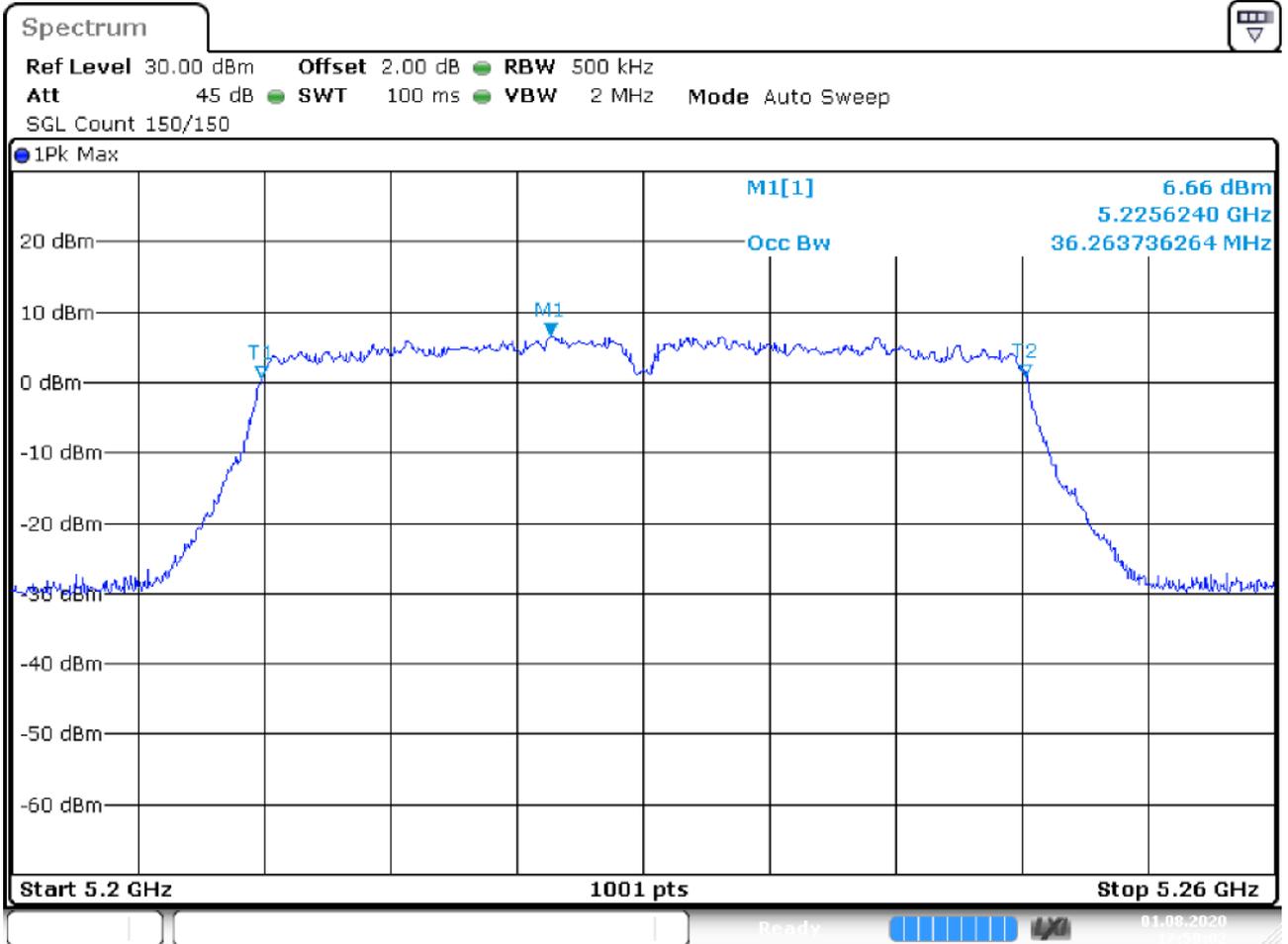
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**4.7.2.52 11N40MIMO\_46 ANT 2**



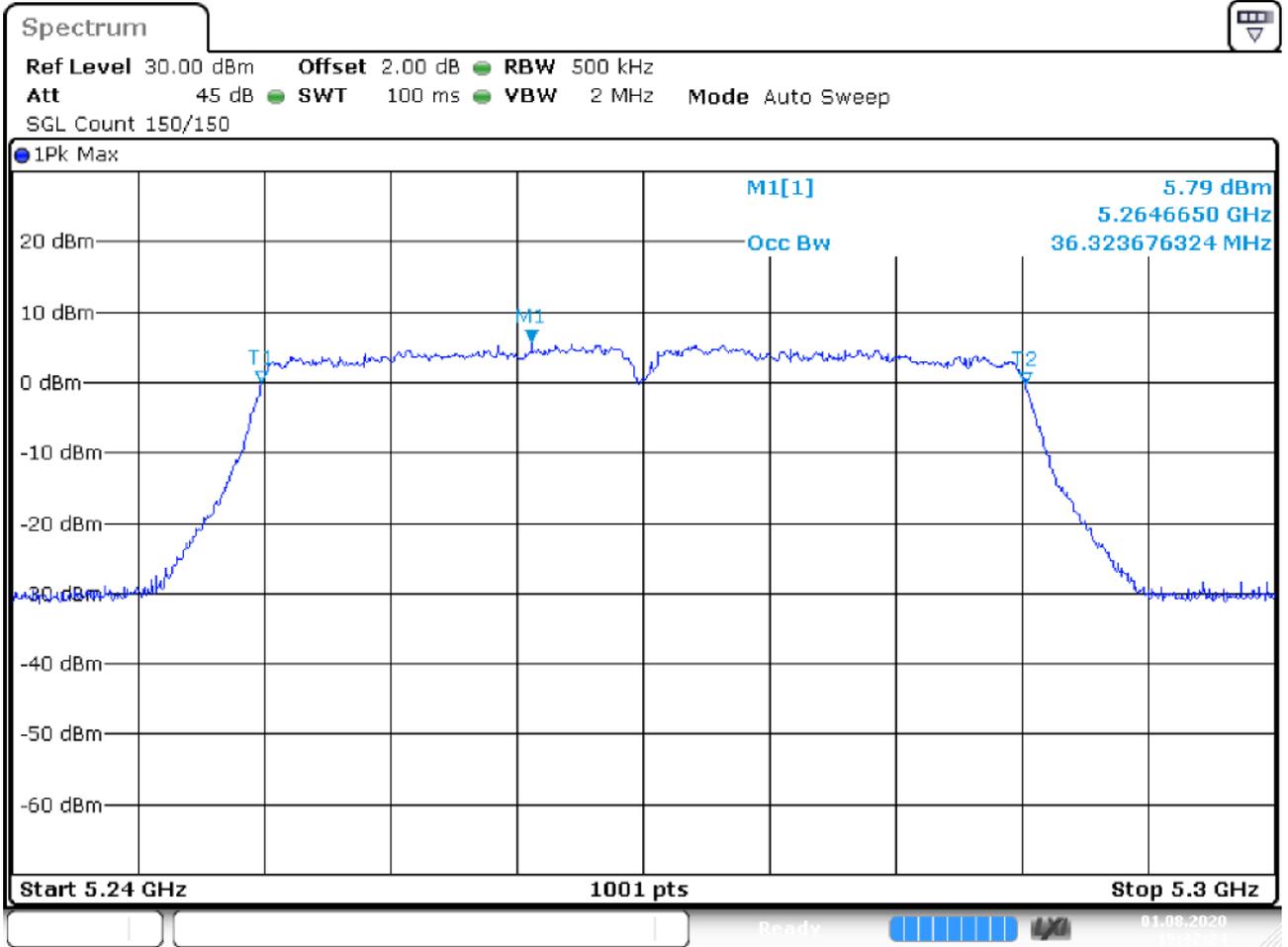
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4.7.2.53 11N40MIMO\_54 ANT 1



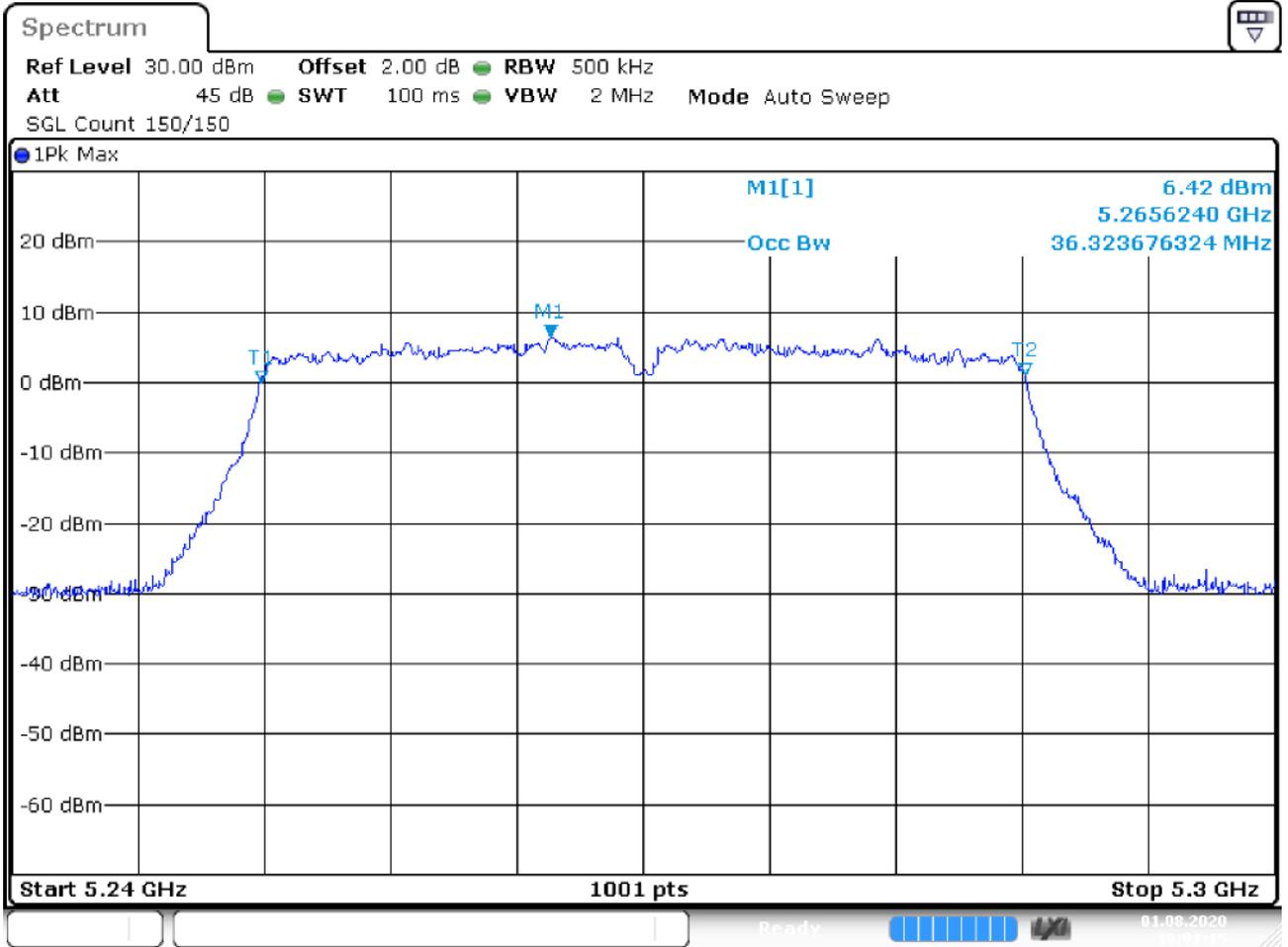
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4.7.2.54 11N40MIMO\_54 ANT 2

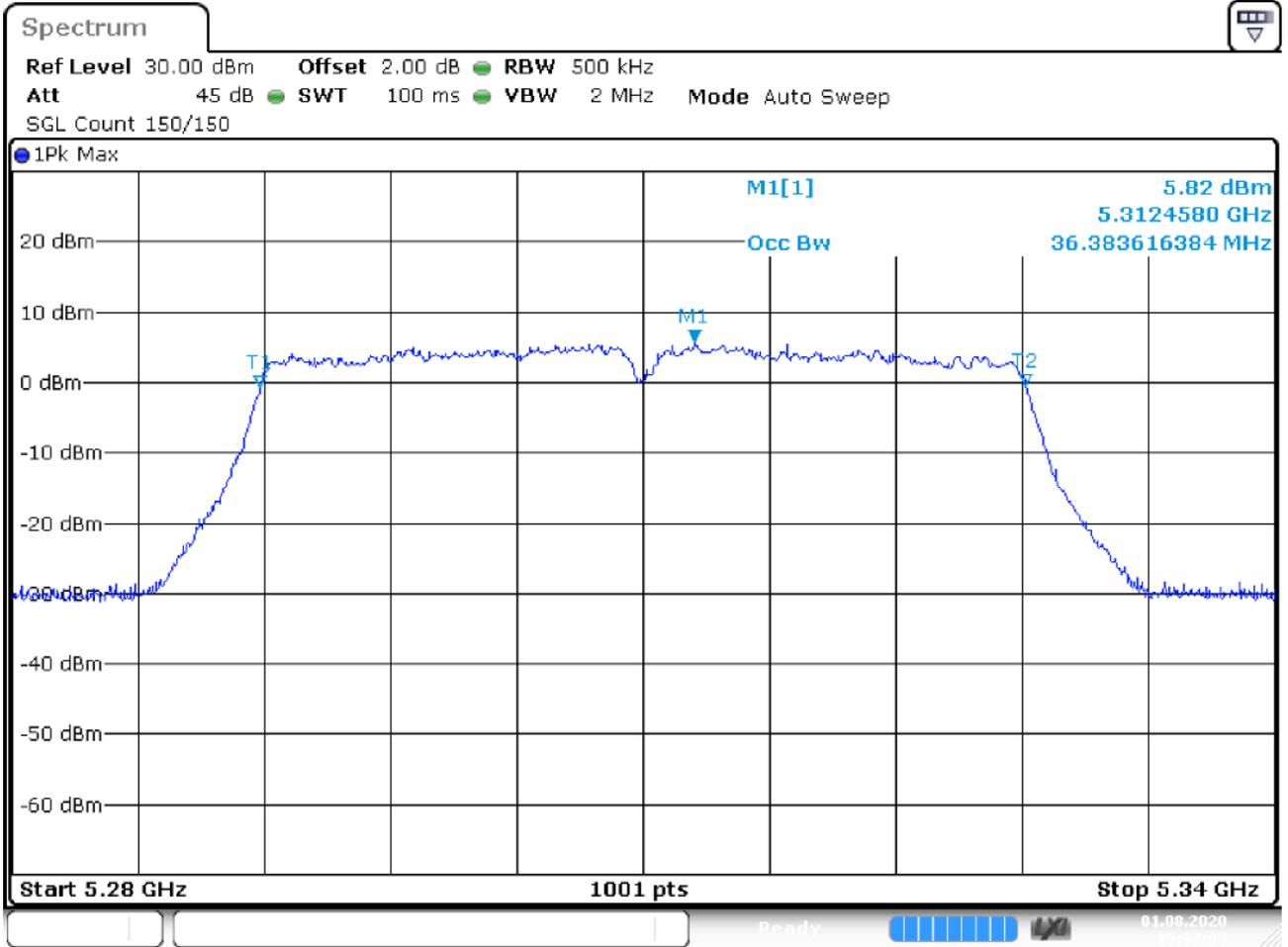


Date: 1.AUG.2020 18:01:16



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4.7.2.55 11N40MIMO\_62 ANT 1



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