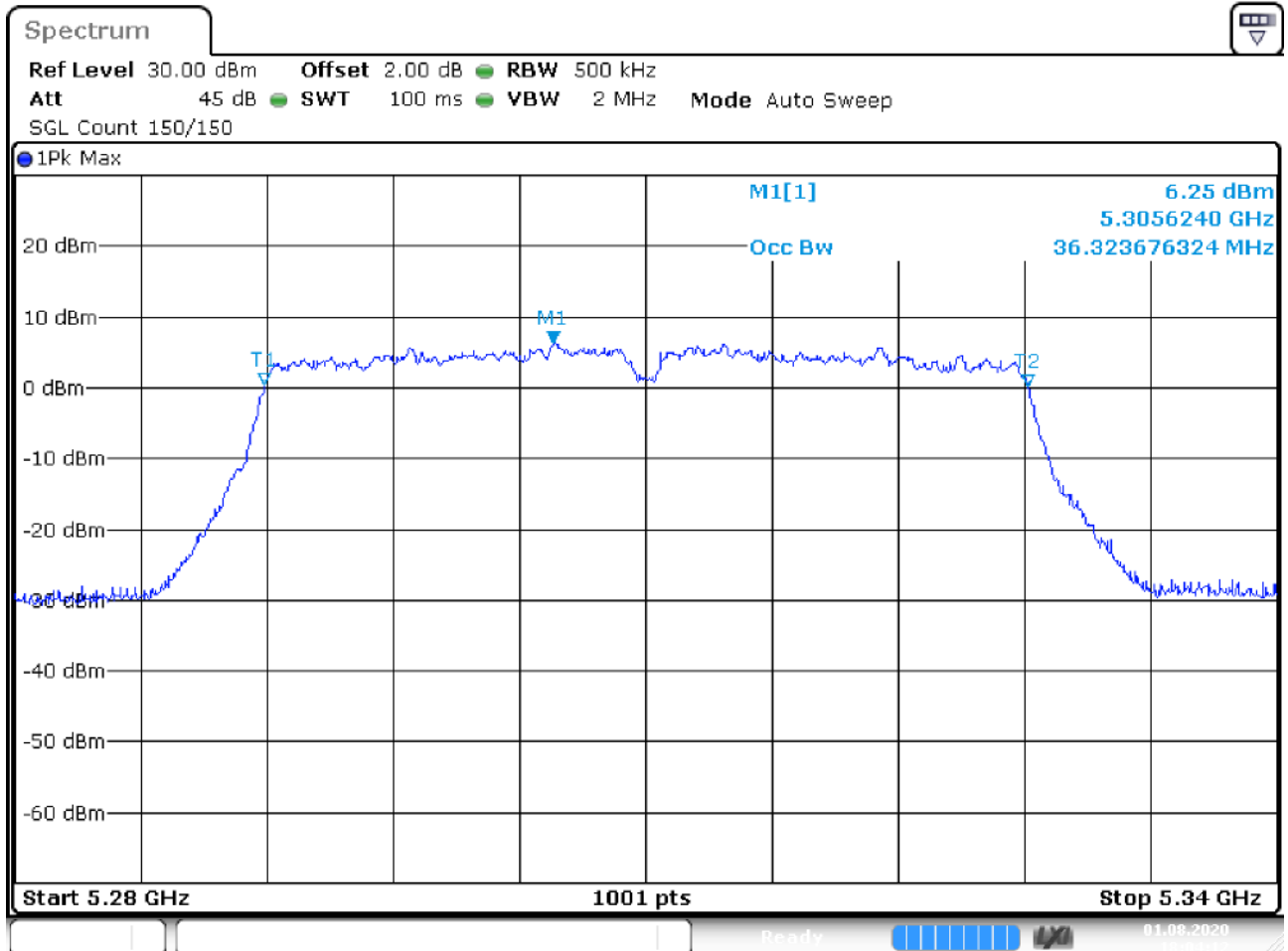


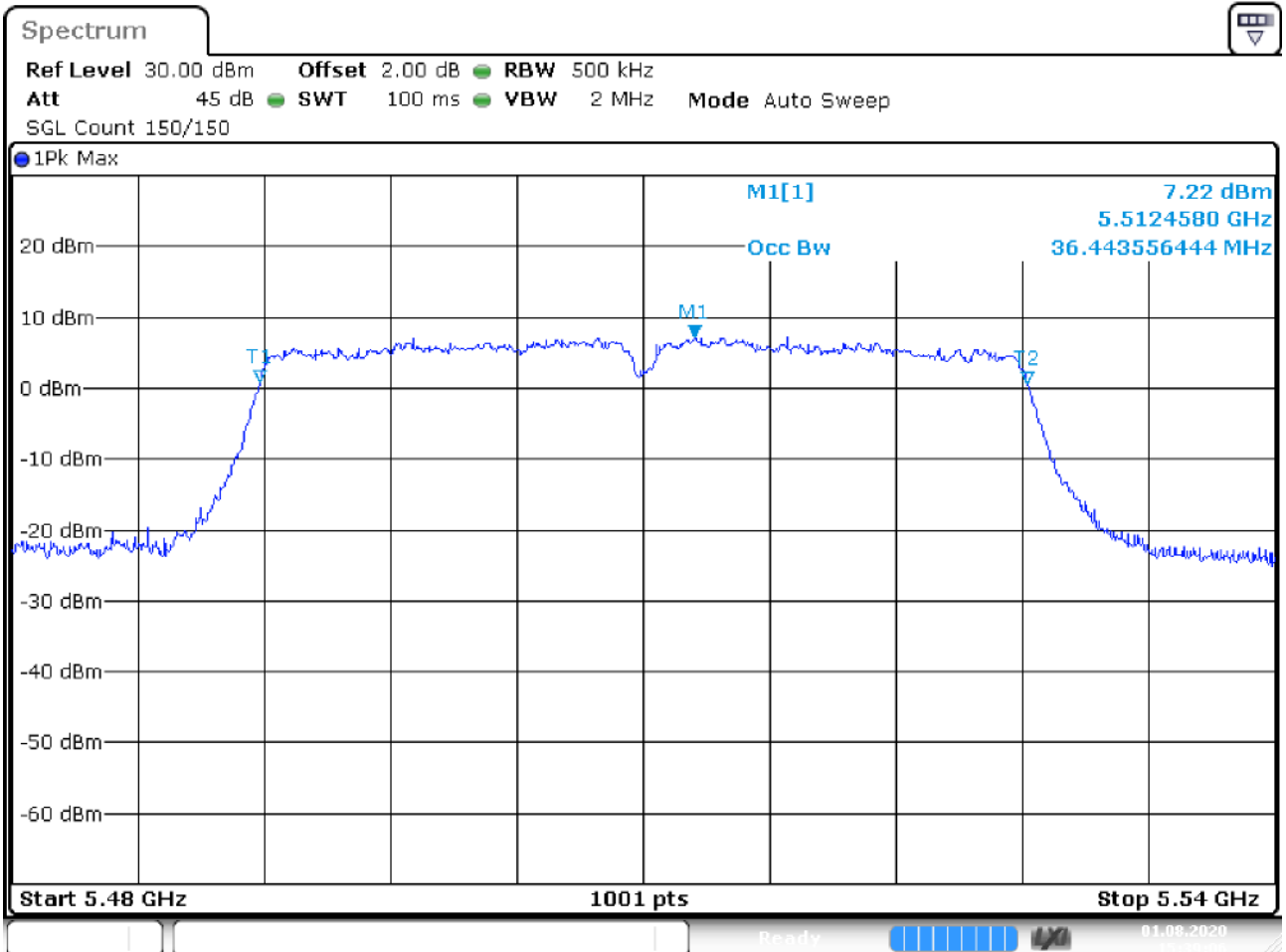
4.7.2.56 11N40MIMO_62 ANT 2



Date: 1.AUG.2020 18:04:12



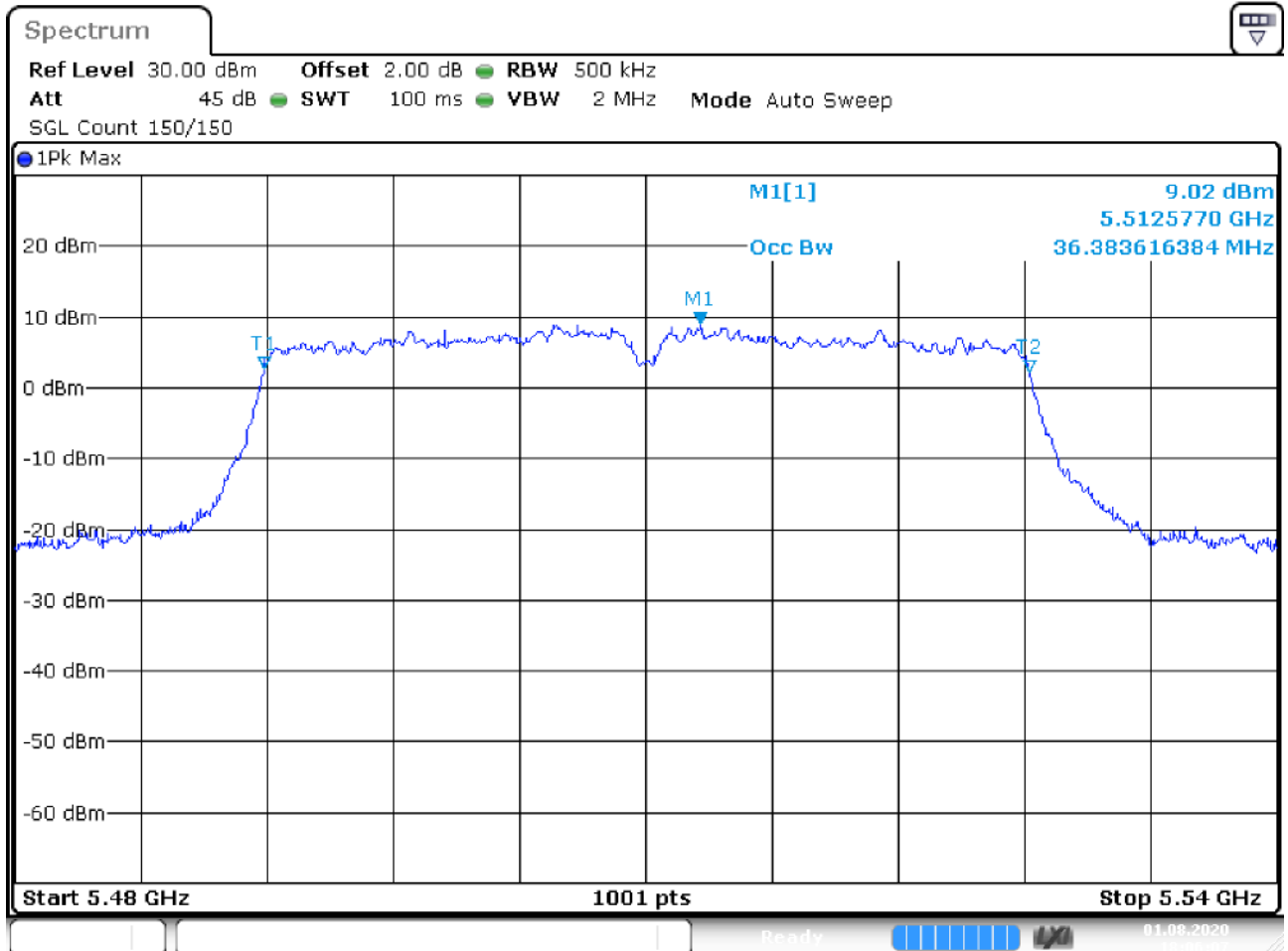
4.7.2.57 11N40MIMO_102 ANT 1



Date: 1.AUG.2020 15:39:06



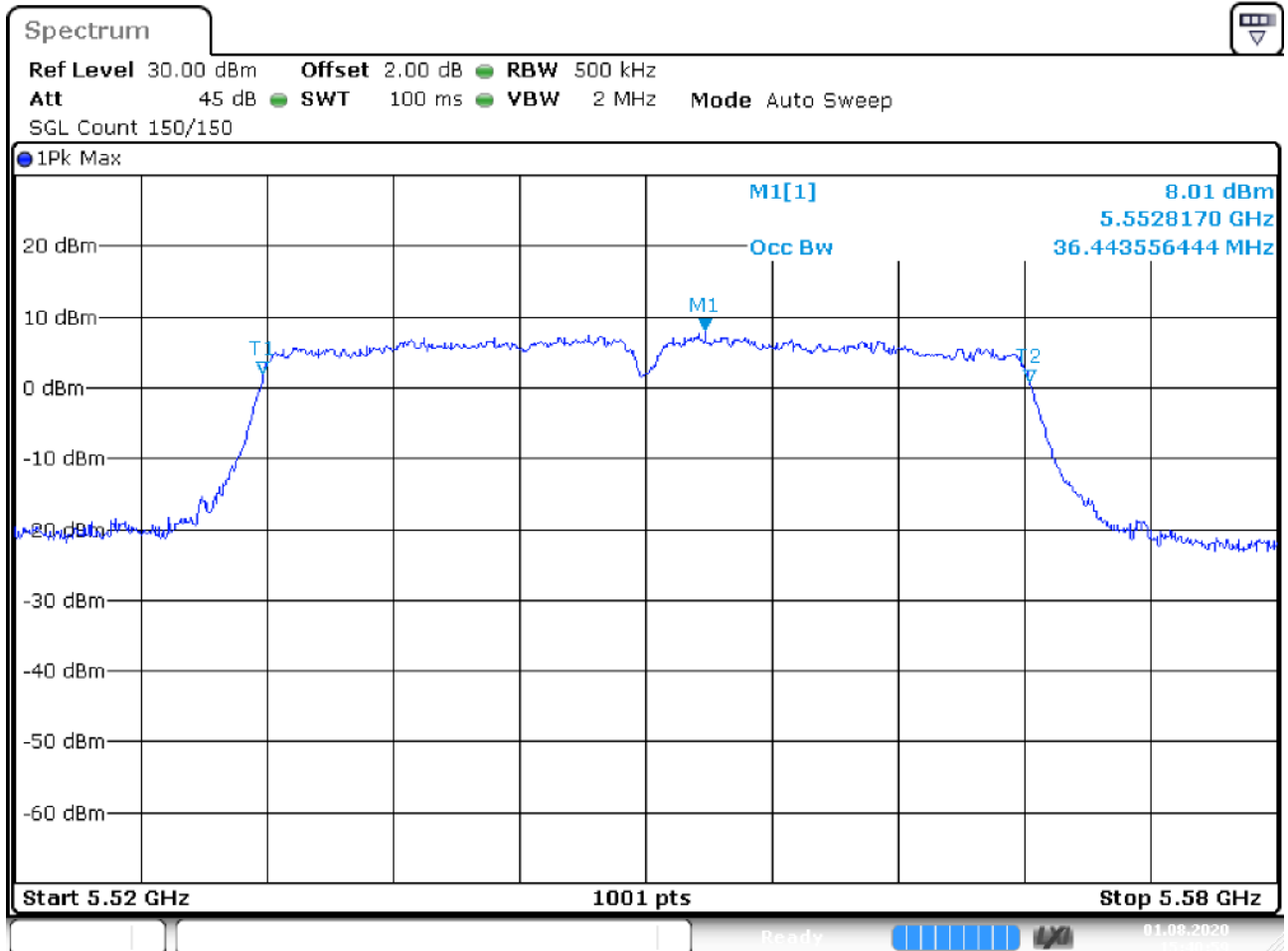
4.7.2.58 11N40MIMO_102 ANT 2



Date: 1.AUG.2020 18:06:07



4.7.2.59 11N40MIMO_110 ANT 1



Date: 1.AUG.2020 15:40:59

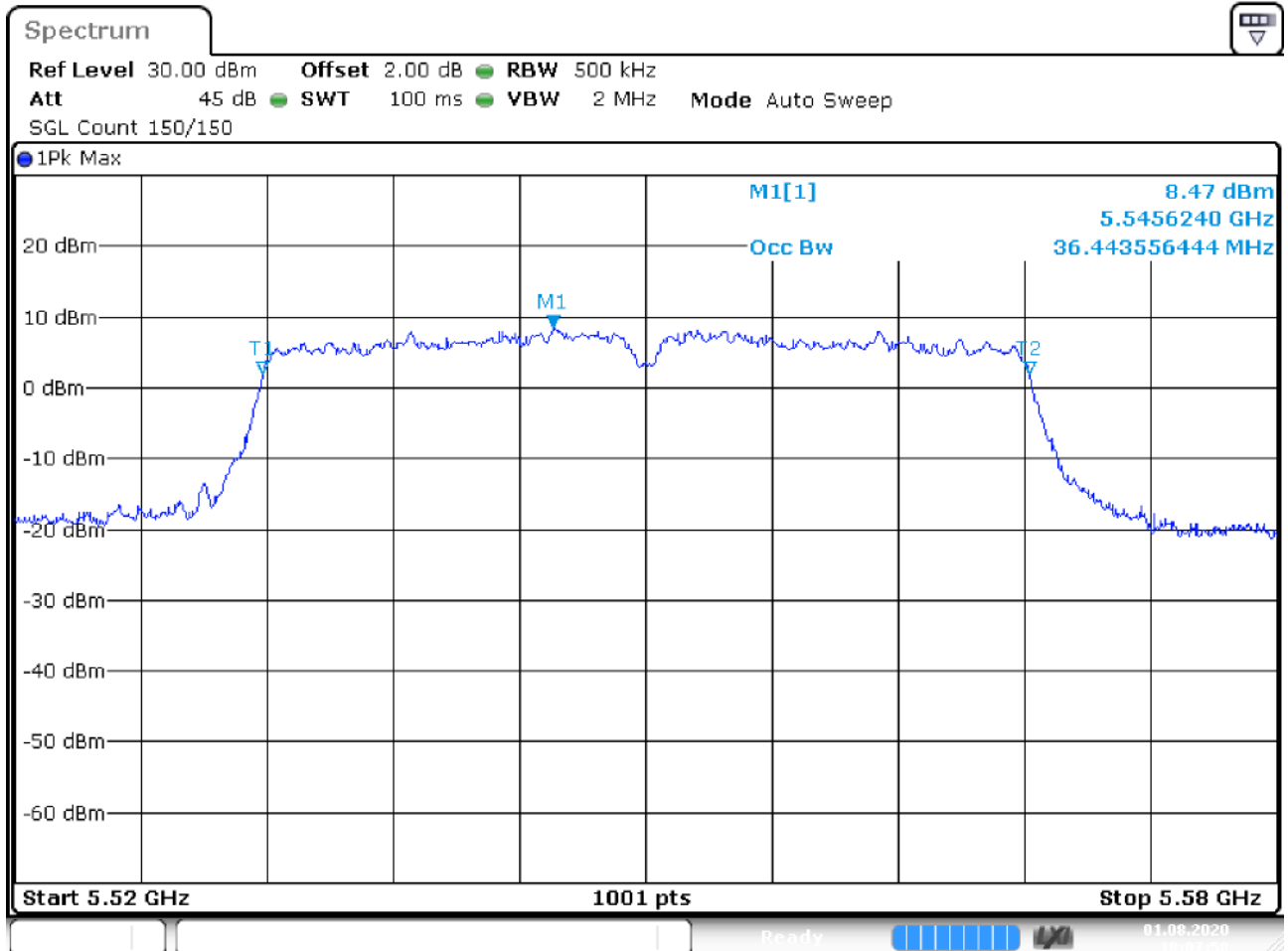


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4.7.2.60 11N40MIMO_110 ANT 2



Date: 1.AUG.2020 18:07:58



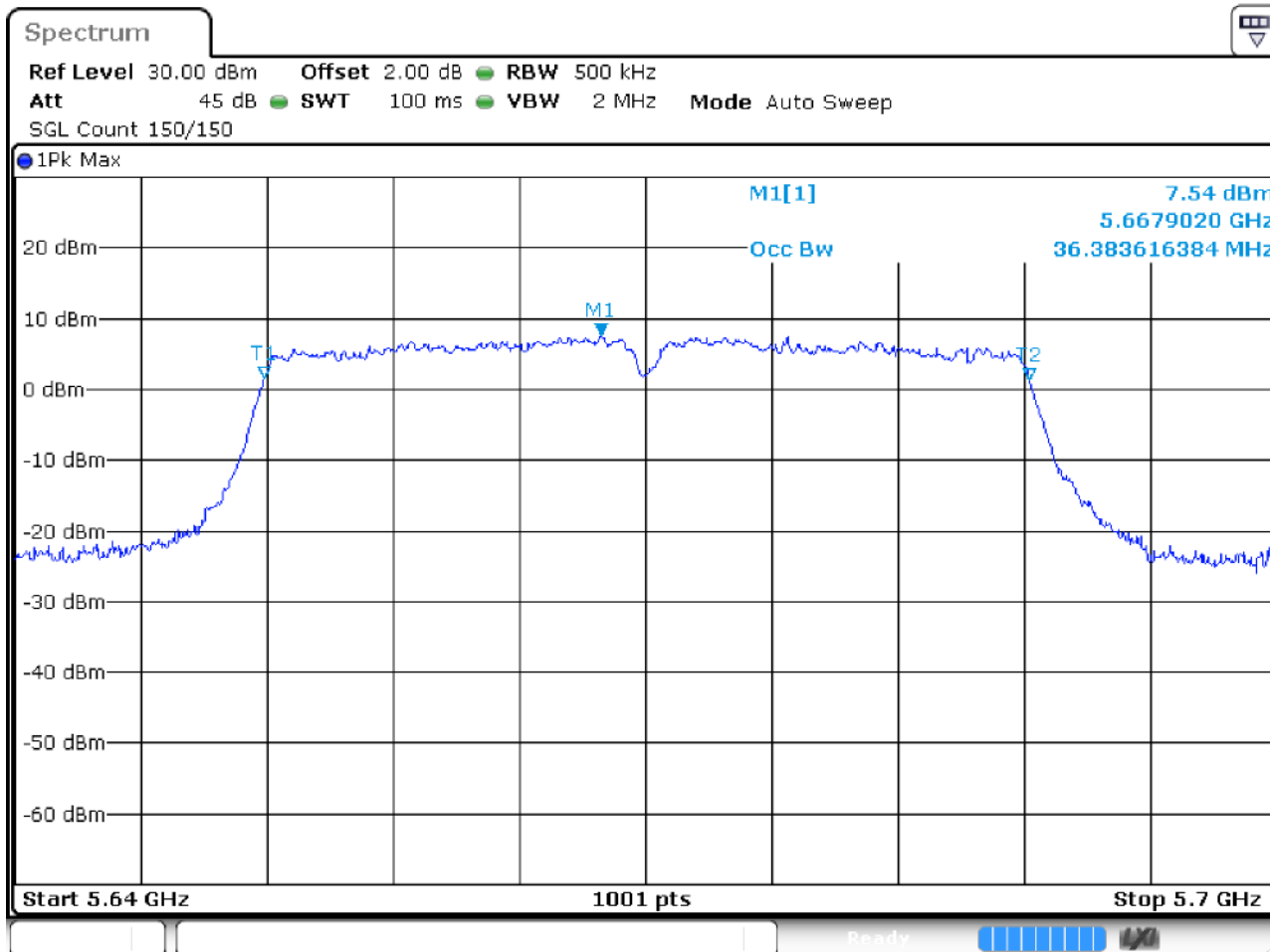
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4.7.2.61

11N40MIMO_134 ANT 1



Date: 25.AUG.2020 16:28:35



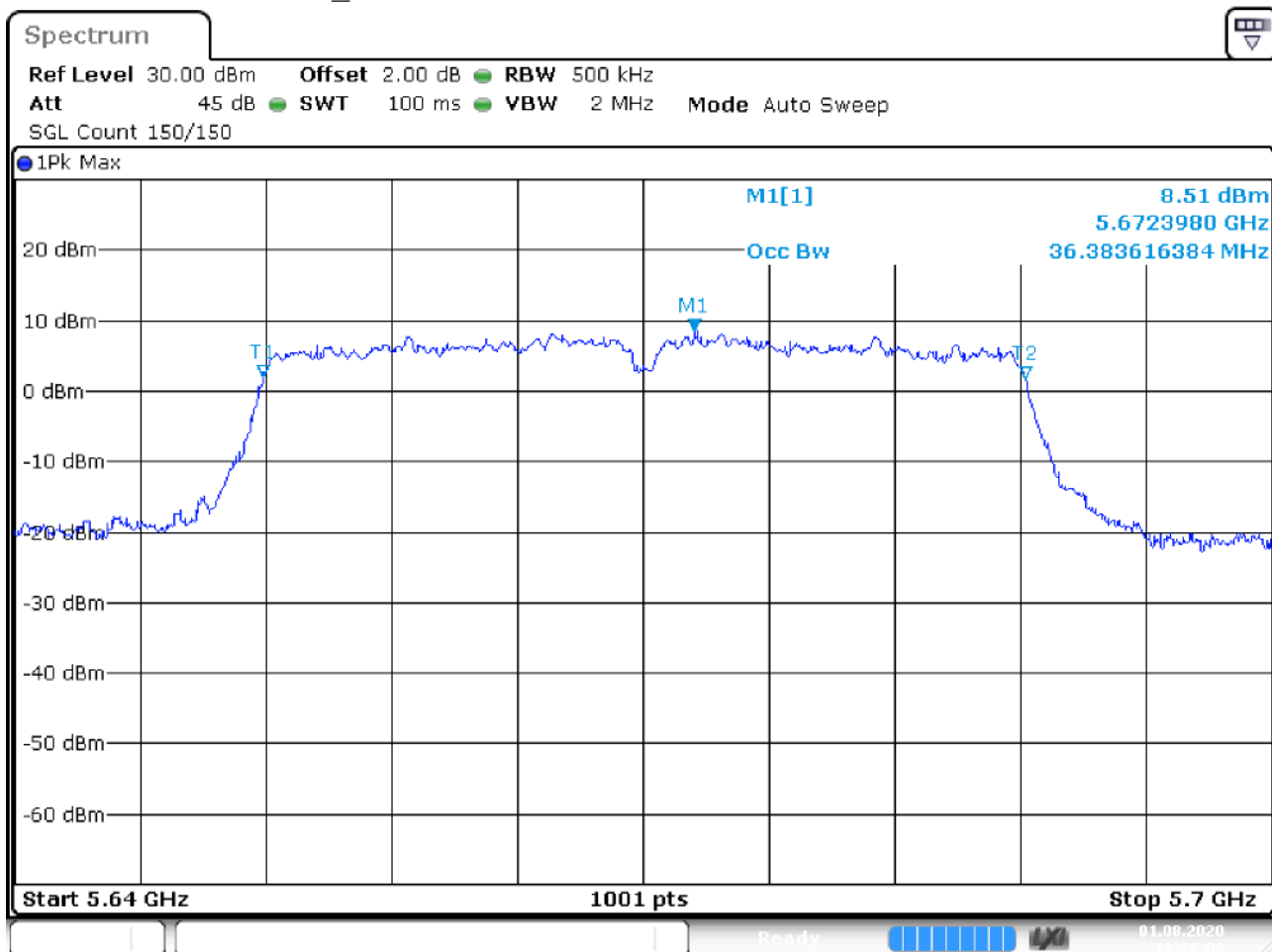
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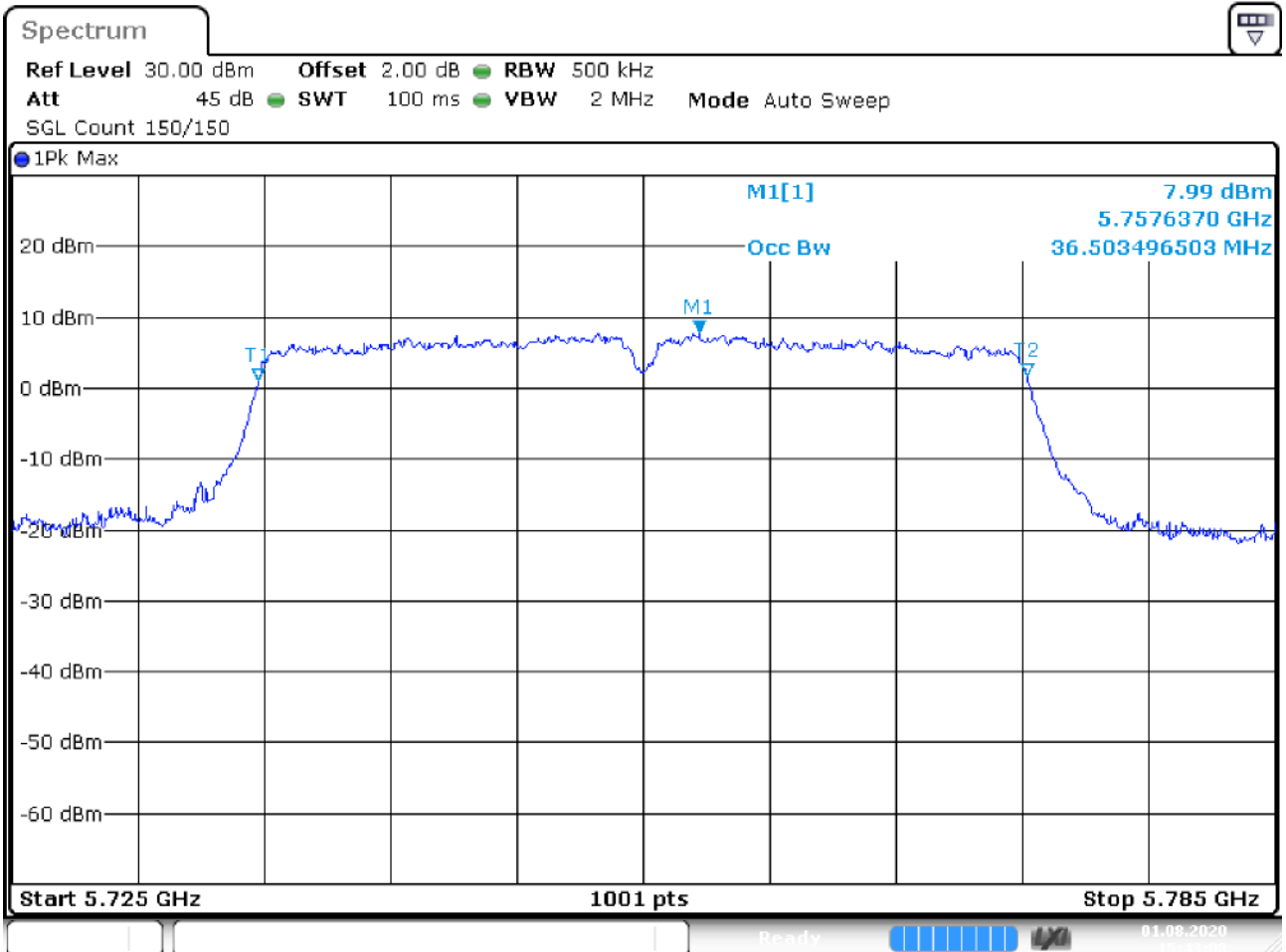
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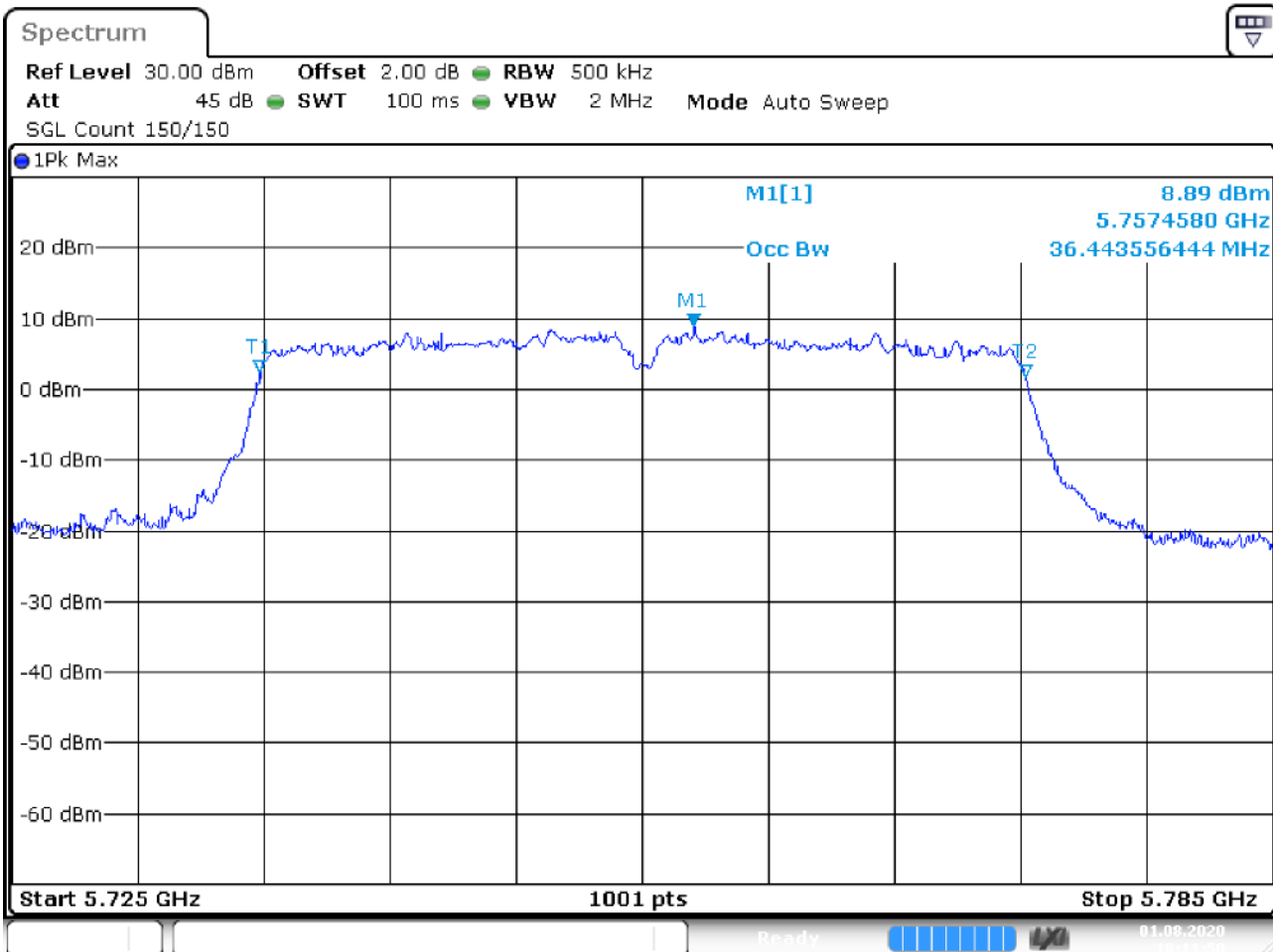
4.7.2.63 11N40MIMO_151 ANT 1



Date: 1.AUG.2020 15:43:09



4.7.2.64 11N40MIMO_151 ANT 2



Date: 1.AUG.2020 18:11:50

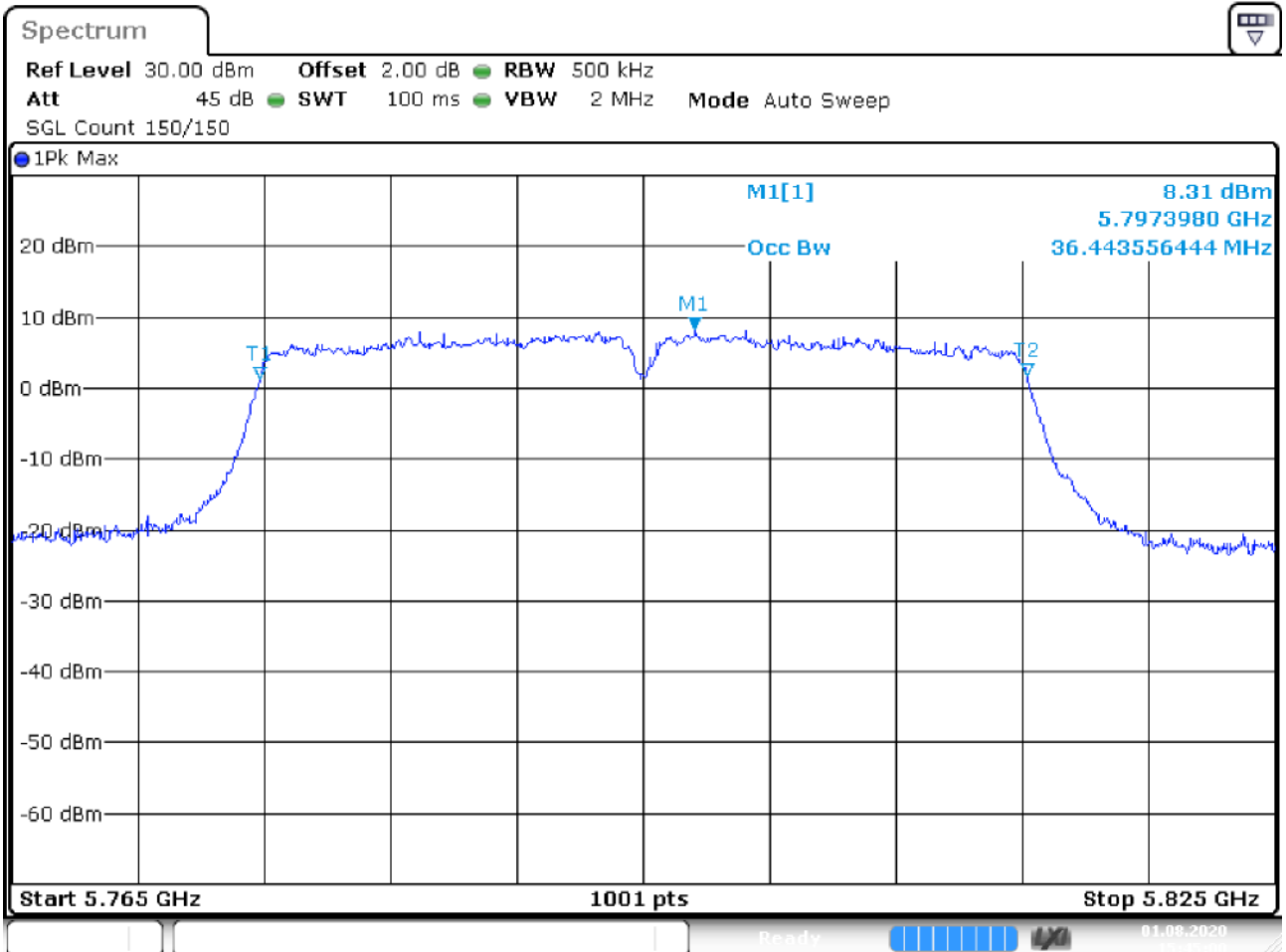


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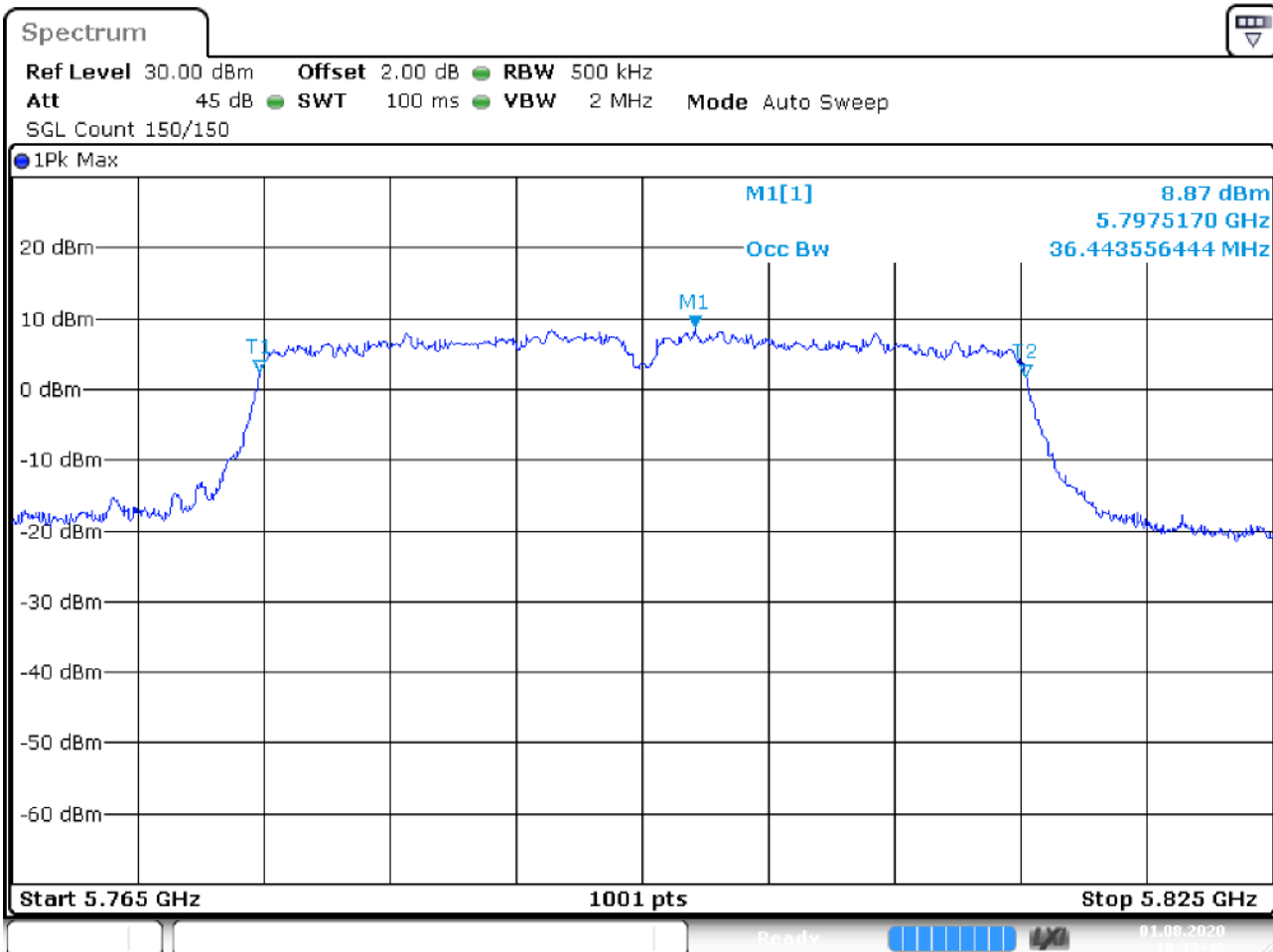
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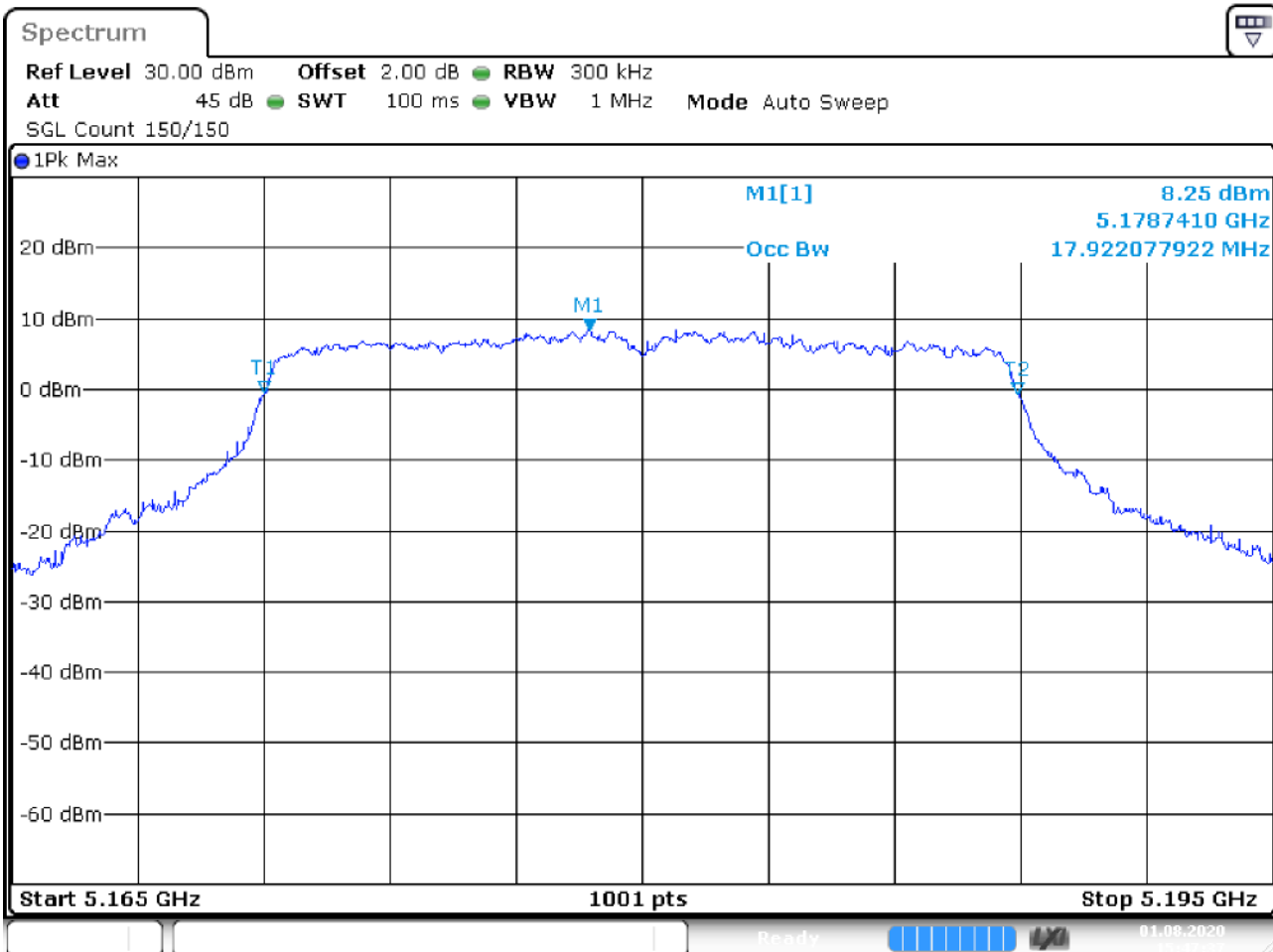
4.7.2.66 11N40MIMO_159 ANT 2



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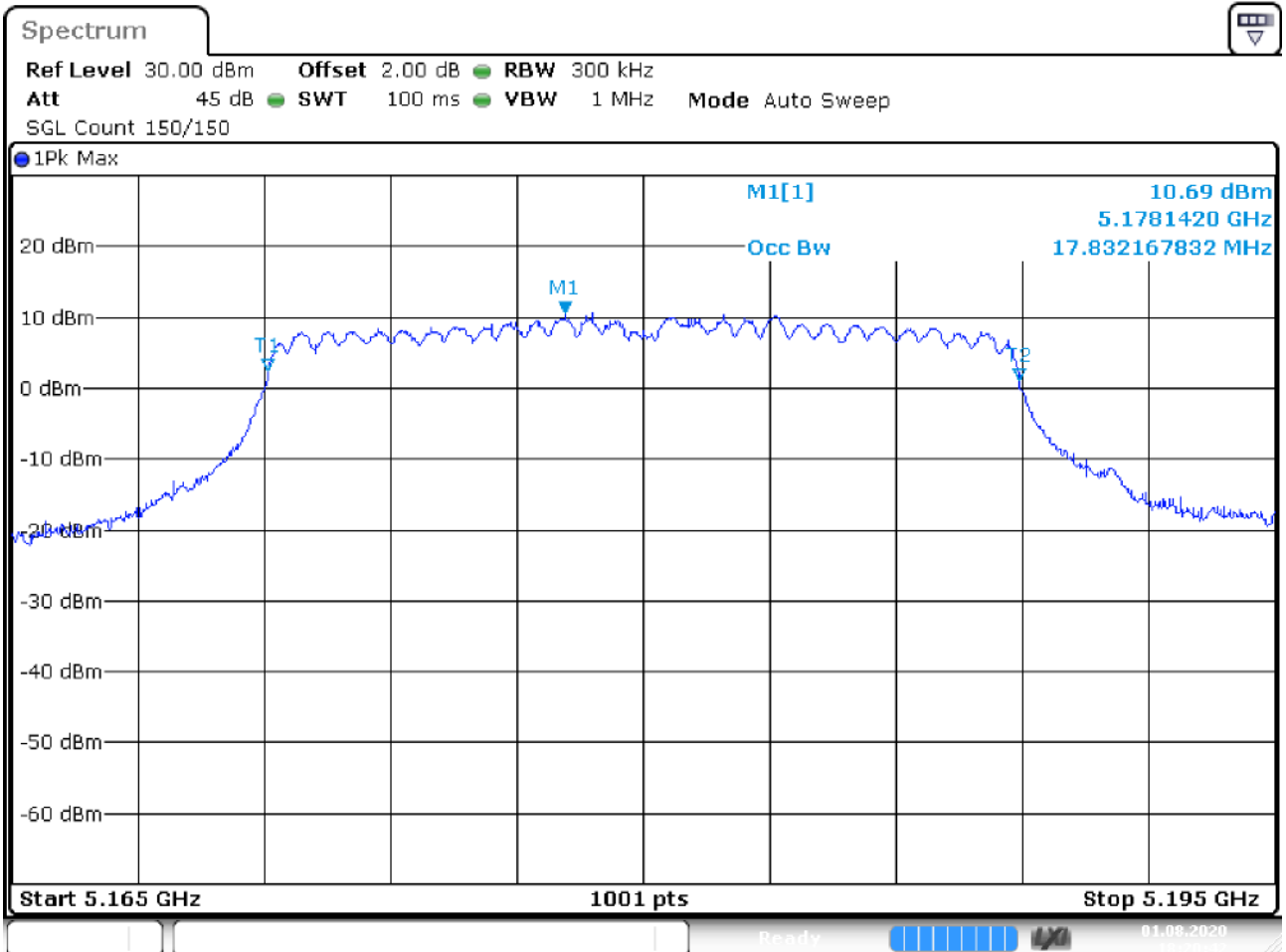
4.7.2.67 11AC20MIMO_36 ANT 1



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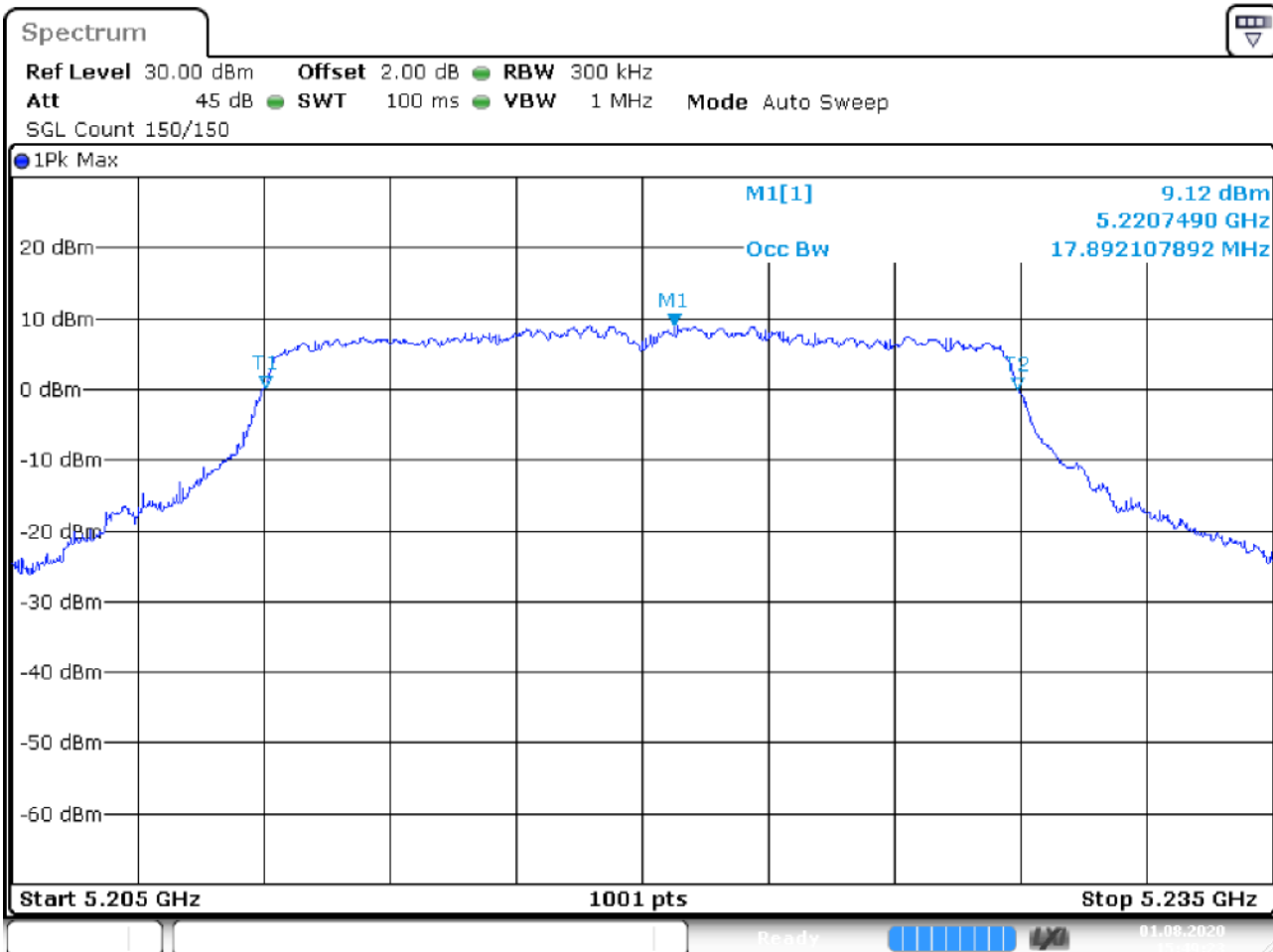
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Date: 1.AUG.2020 18:20:43



4.7.2.69 11AC20MIMO_44 ANT 1

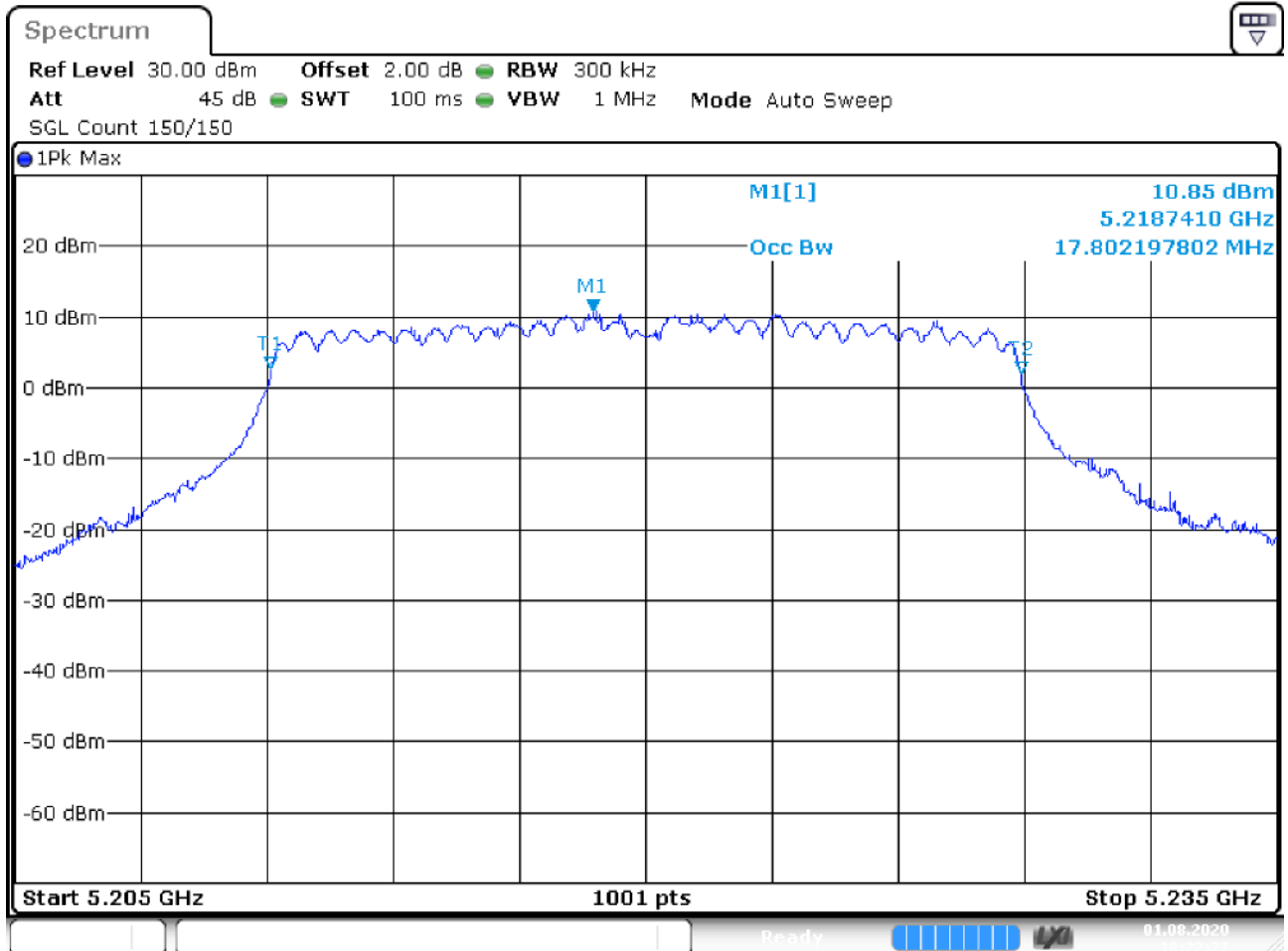


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4.7.2.70

11AC20MIMO_44 ANT 2



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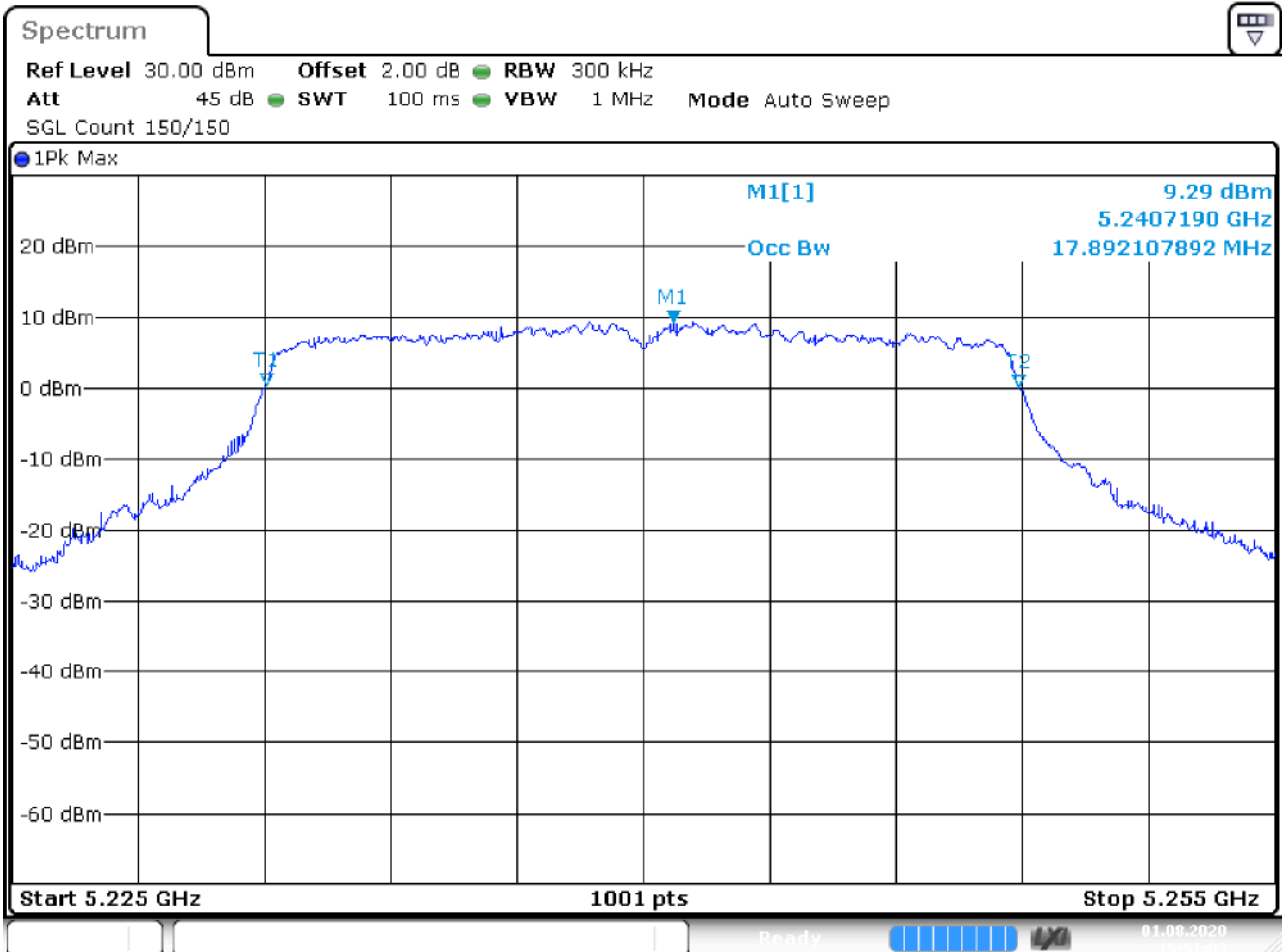


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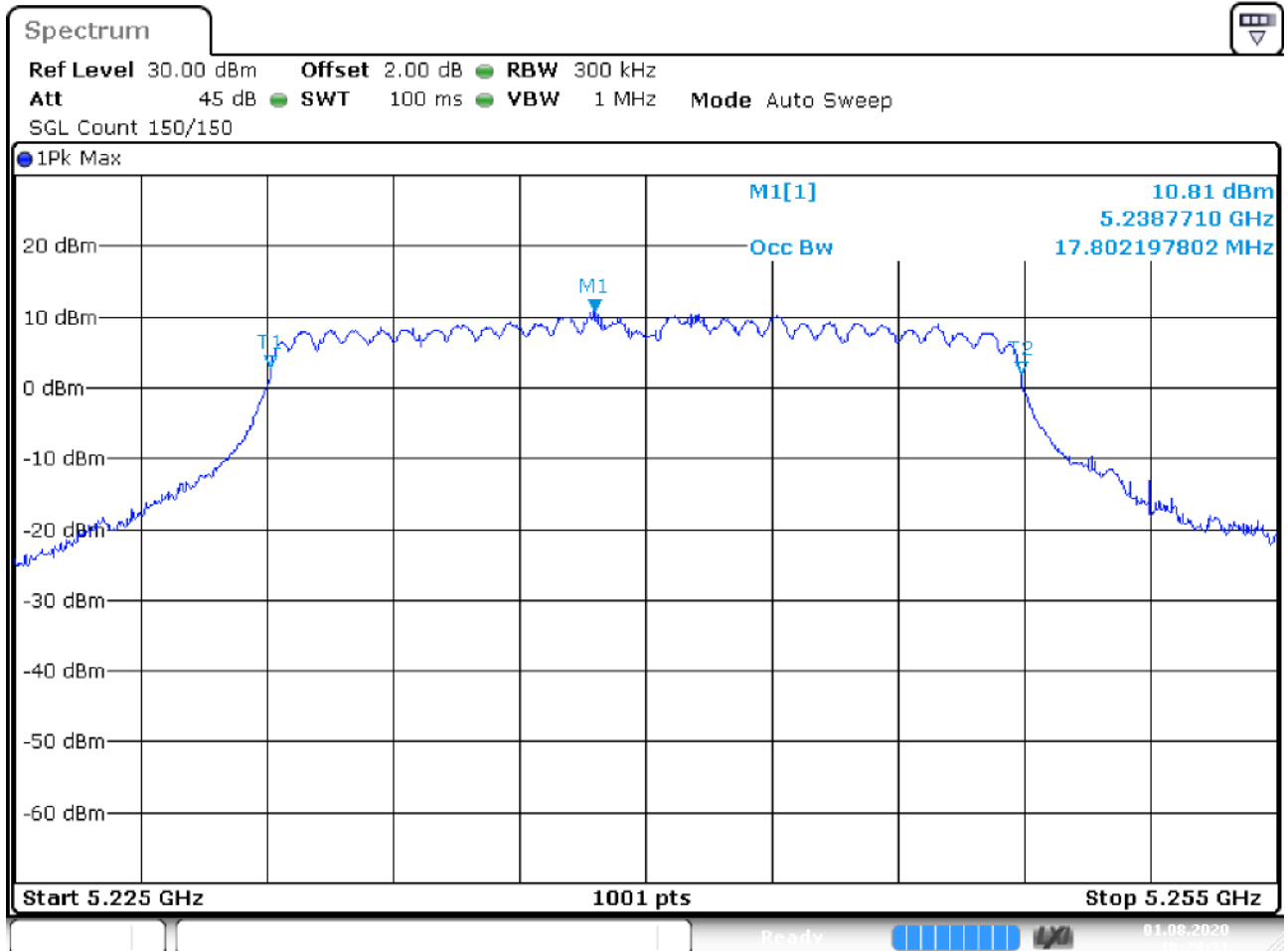
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Date: 1.AUG.2020 15:51:03



4.7.2.72 11AC20MIMO_48 ANT 2



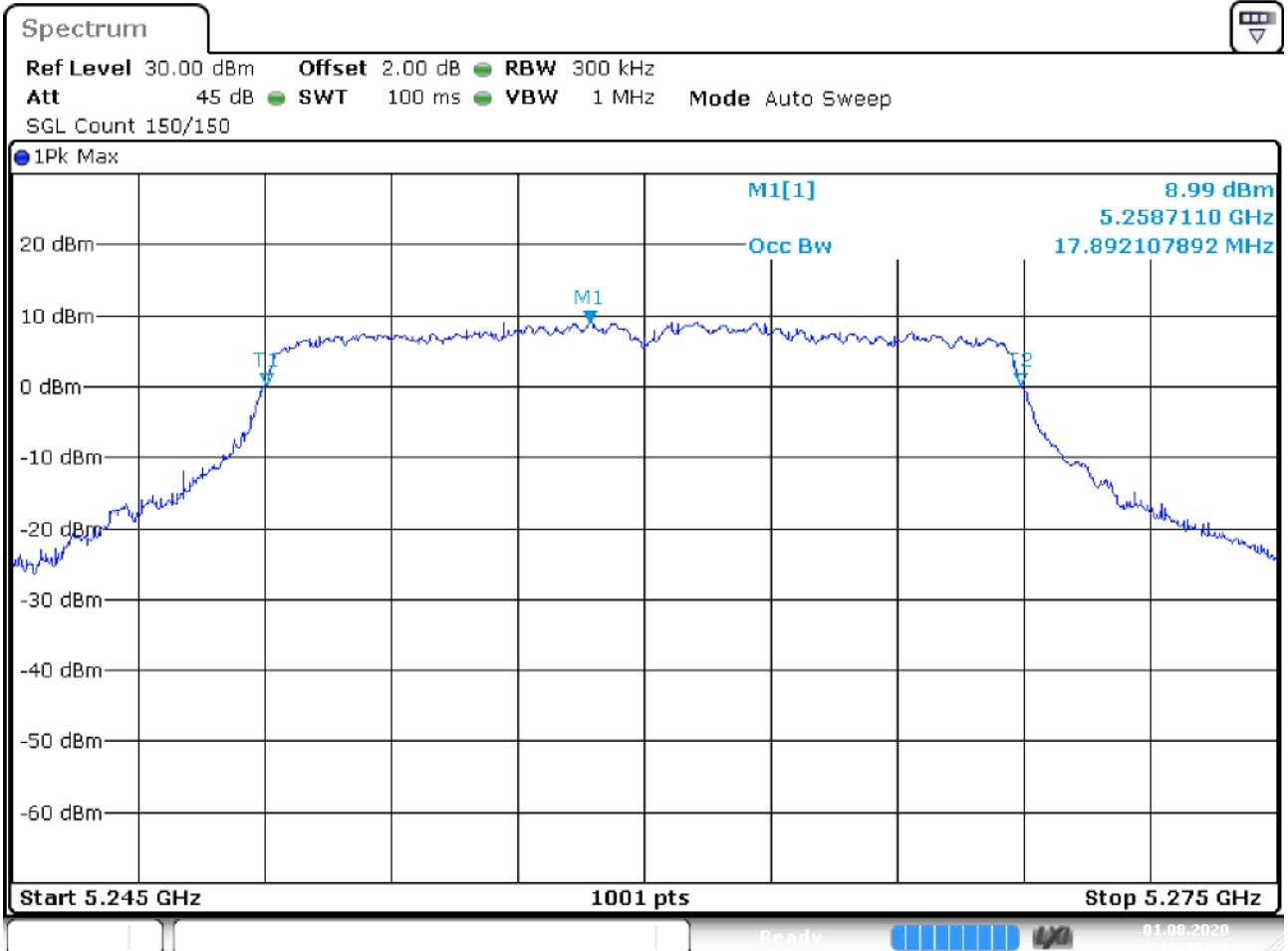
Date: 1.AUG.2020 18:24:32



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4.7.2.73 11AC20MIMO_52 ANT 1



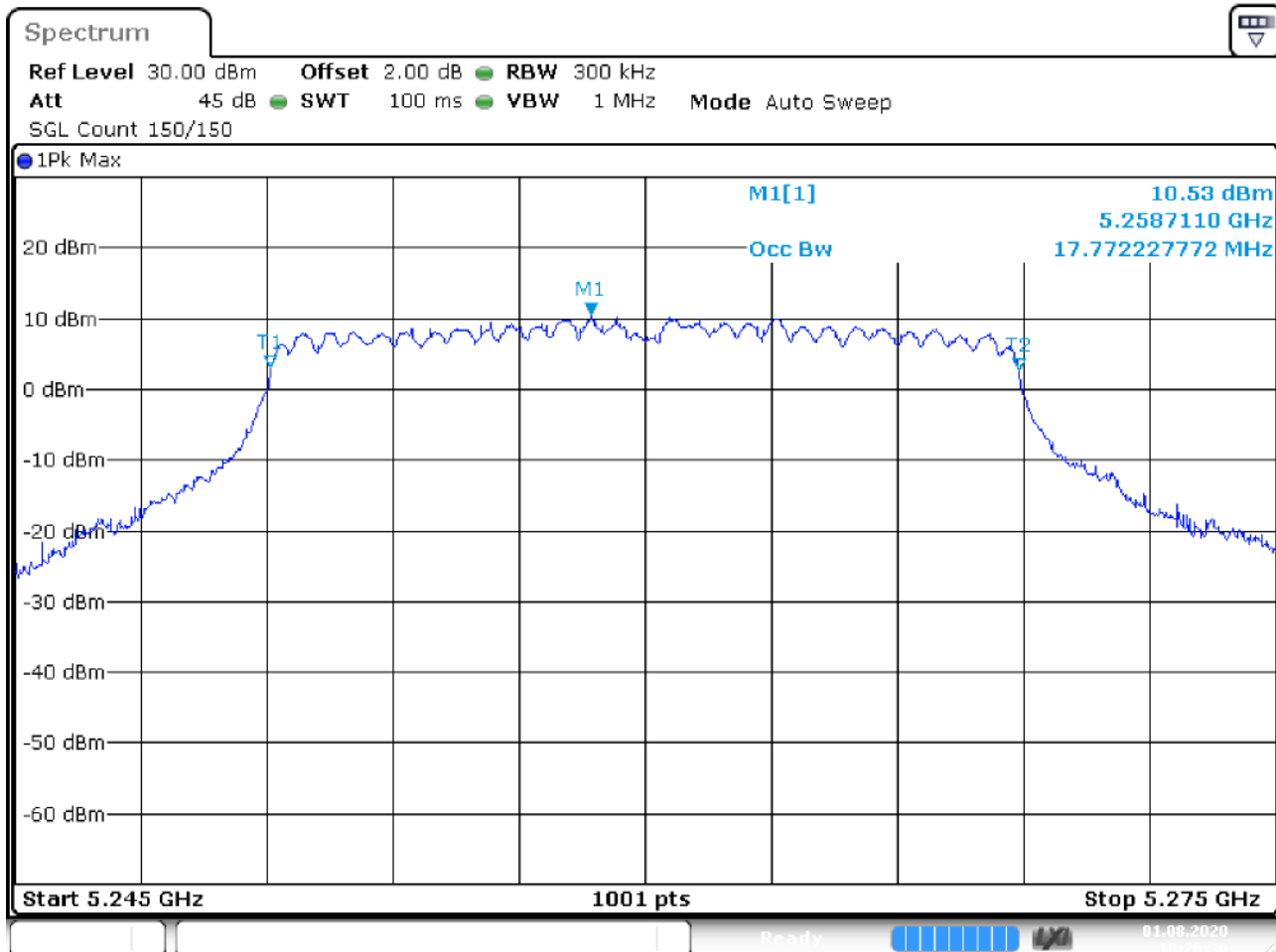
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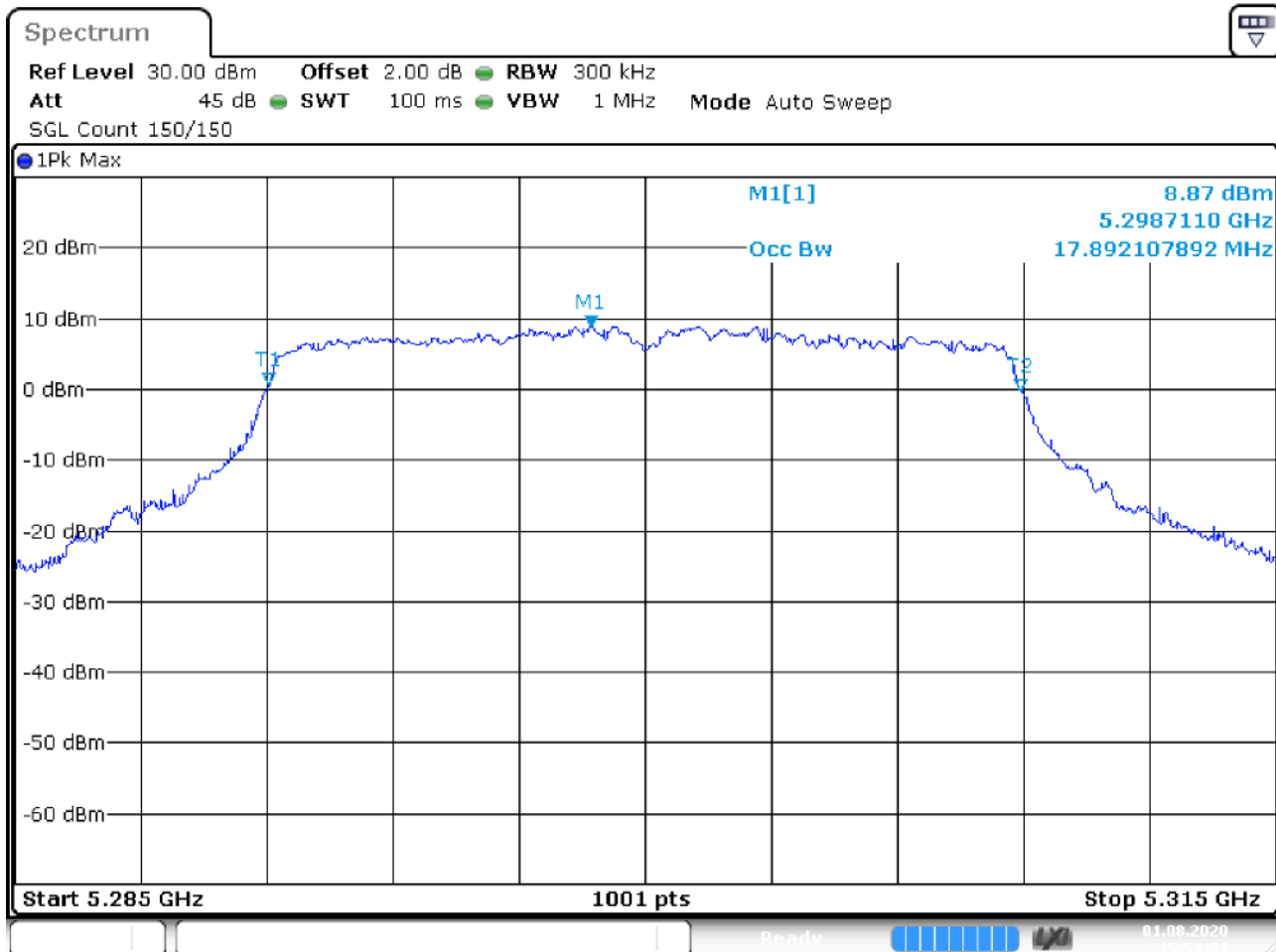
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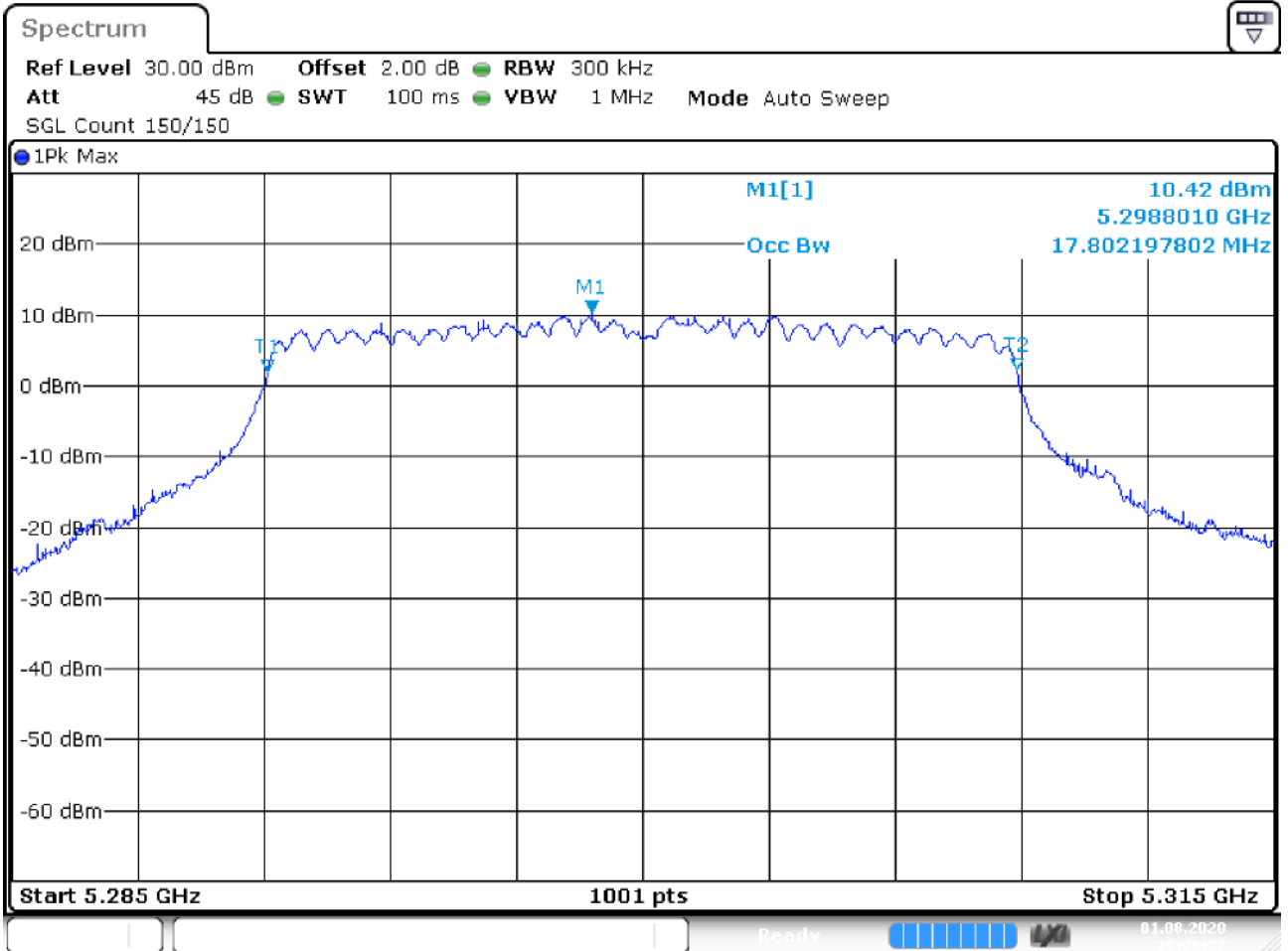
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Date: 1.AUG.2020 15:54:51



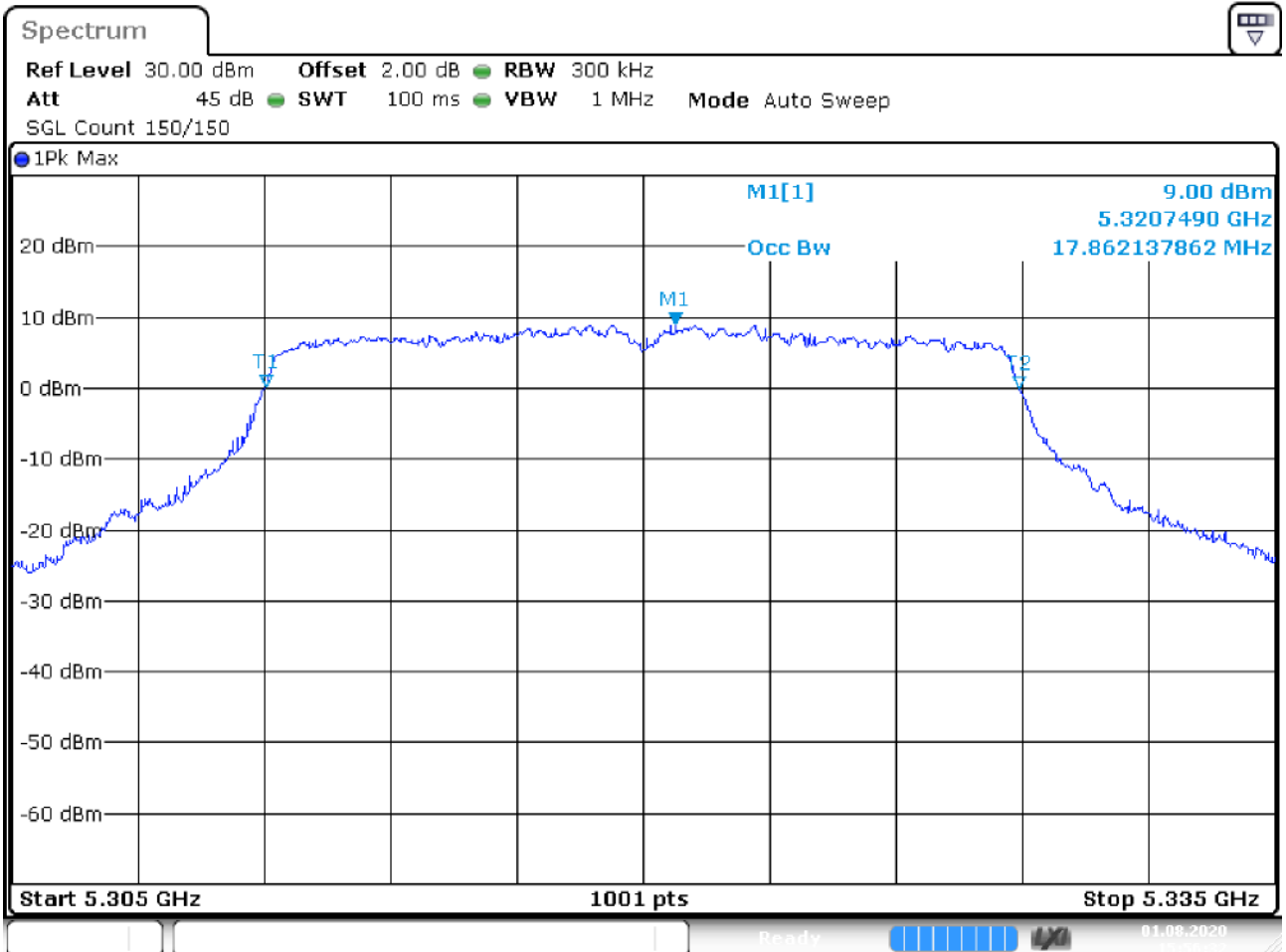
4.7.2.76 11AC20MIMO_60 ANT 2



Date: 1.AUG.2020 18:28:32



4.7.2.77 11AC20MIMO_64 ANT 1



Date: 1.AUG.2020 15:56:33

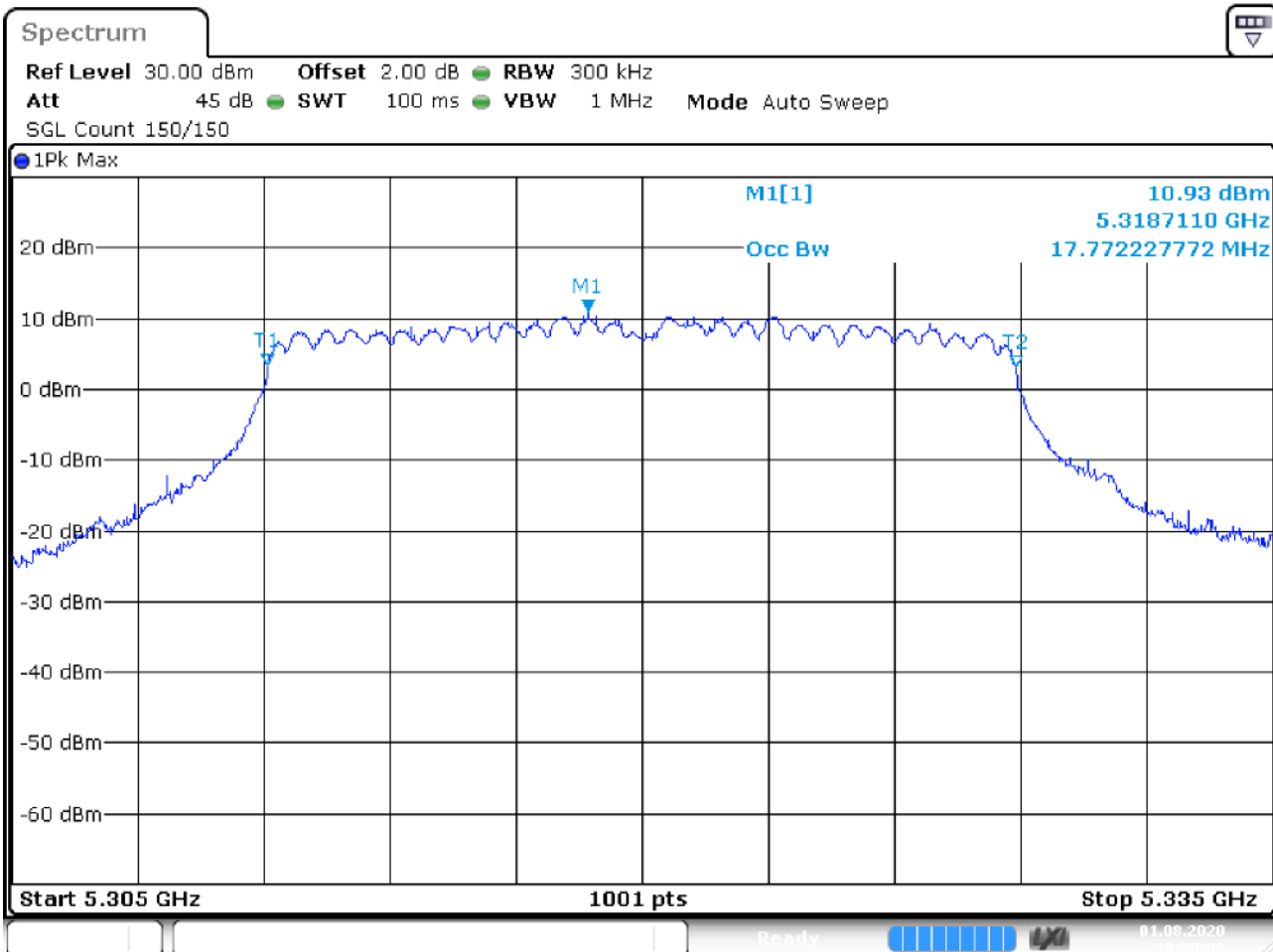


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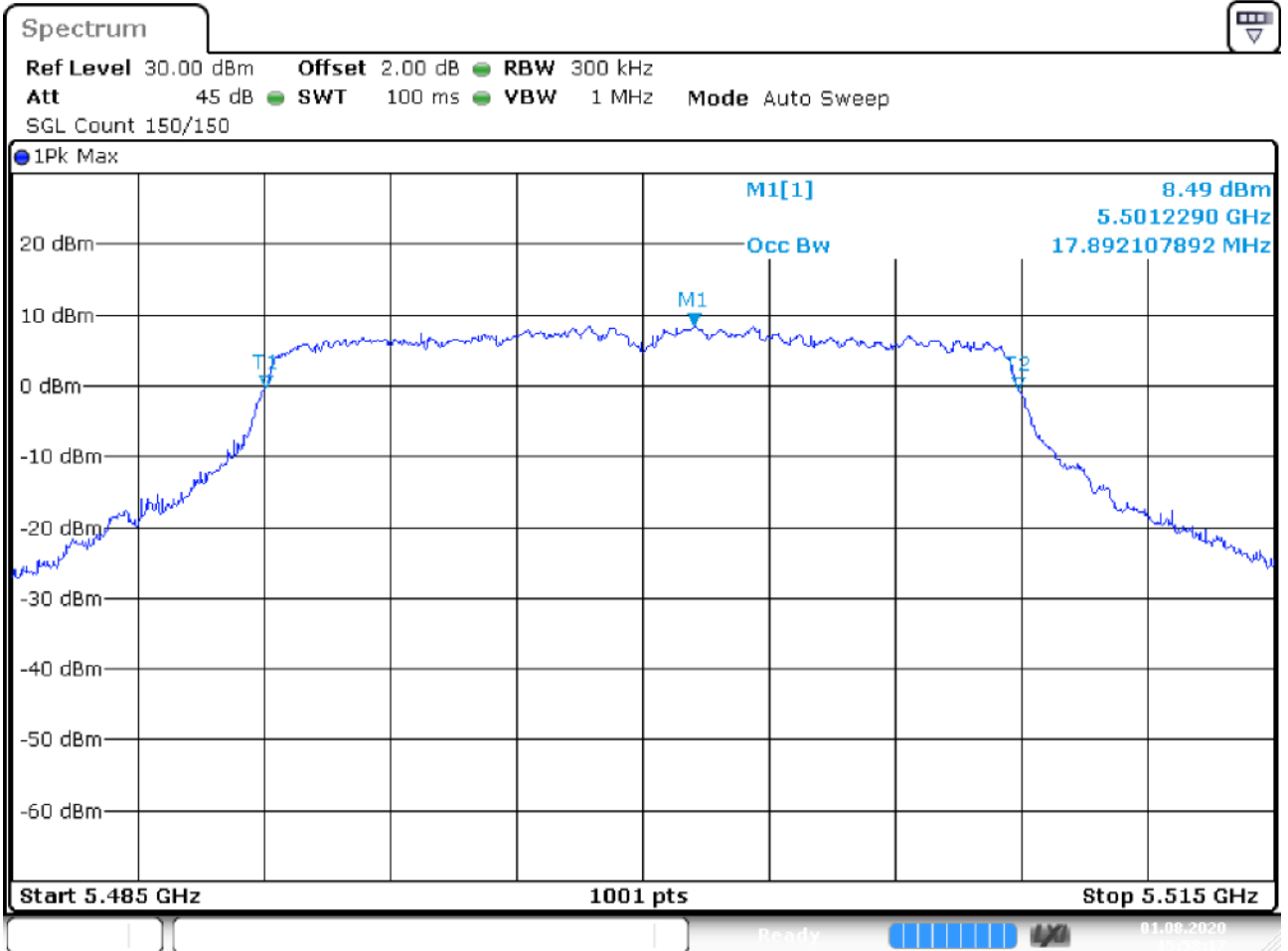
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Date: 1.AUG.2020 18:30:07



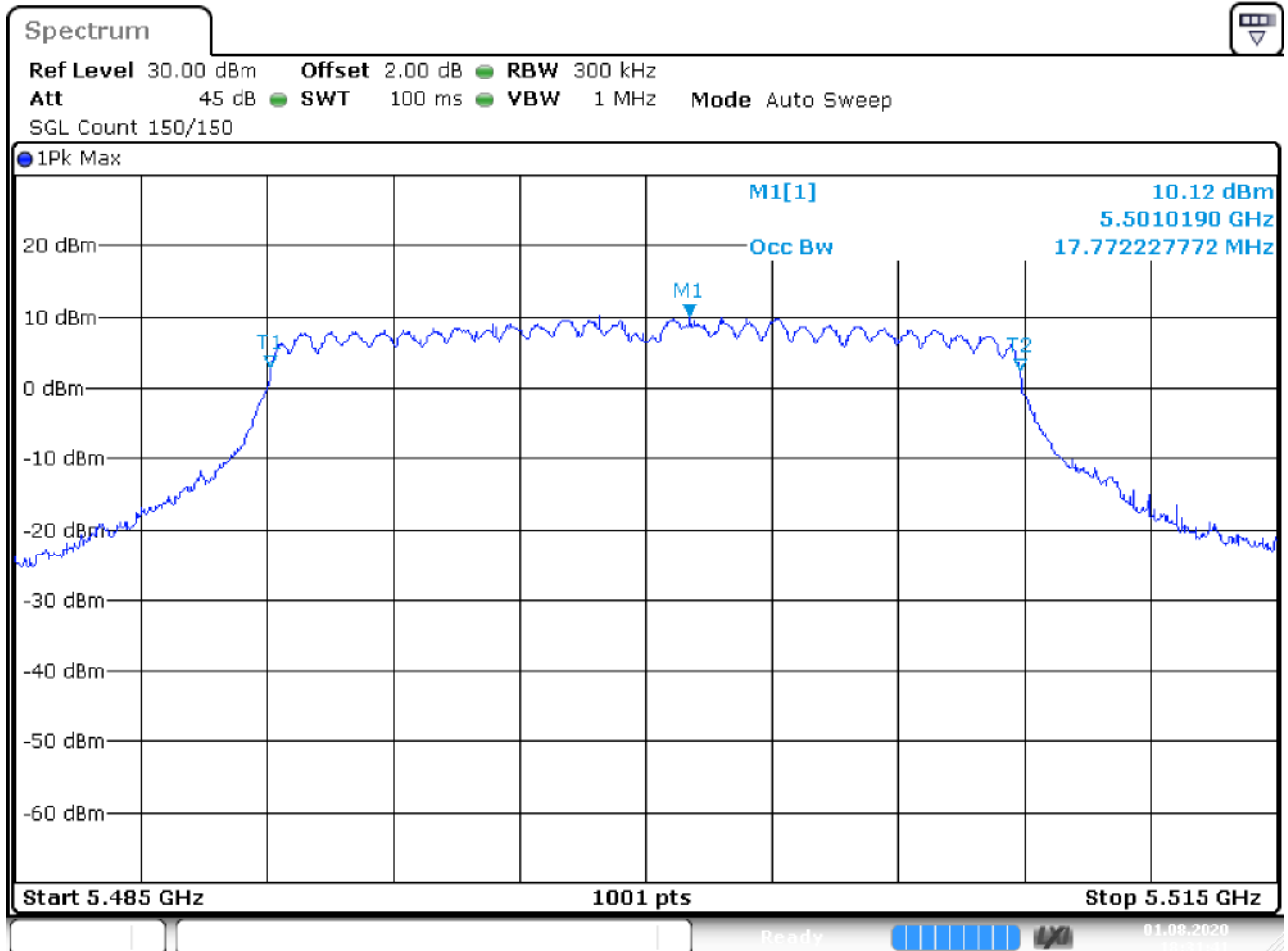
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Date: 1.AUG.2020 15:58:18



4.7.2.80 11AC20MIMO_100 ANT 2



Date: 1.AUG.2020 18:31:42

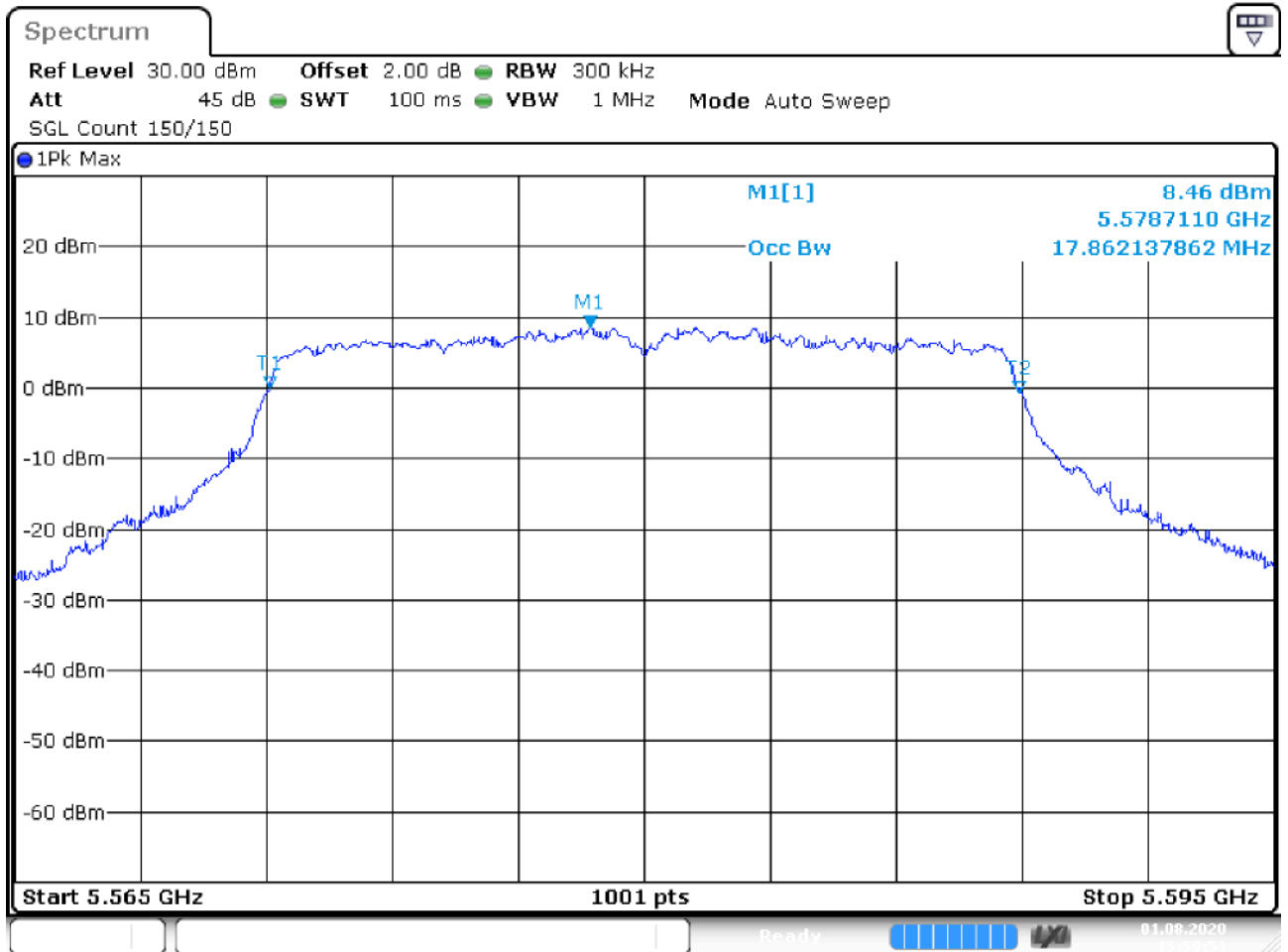


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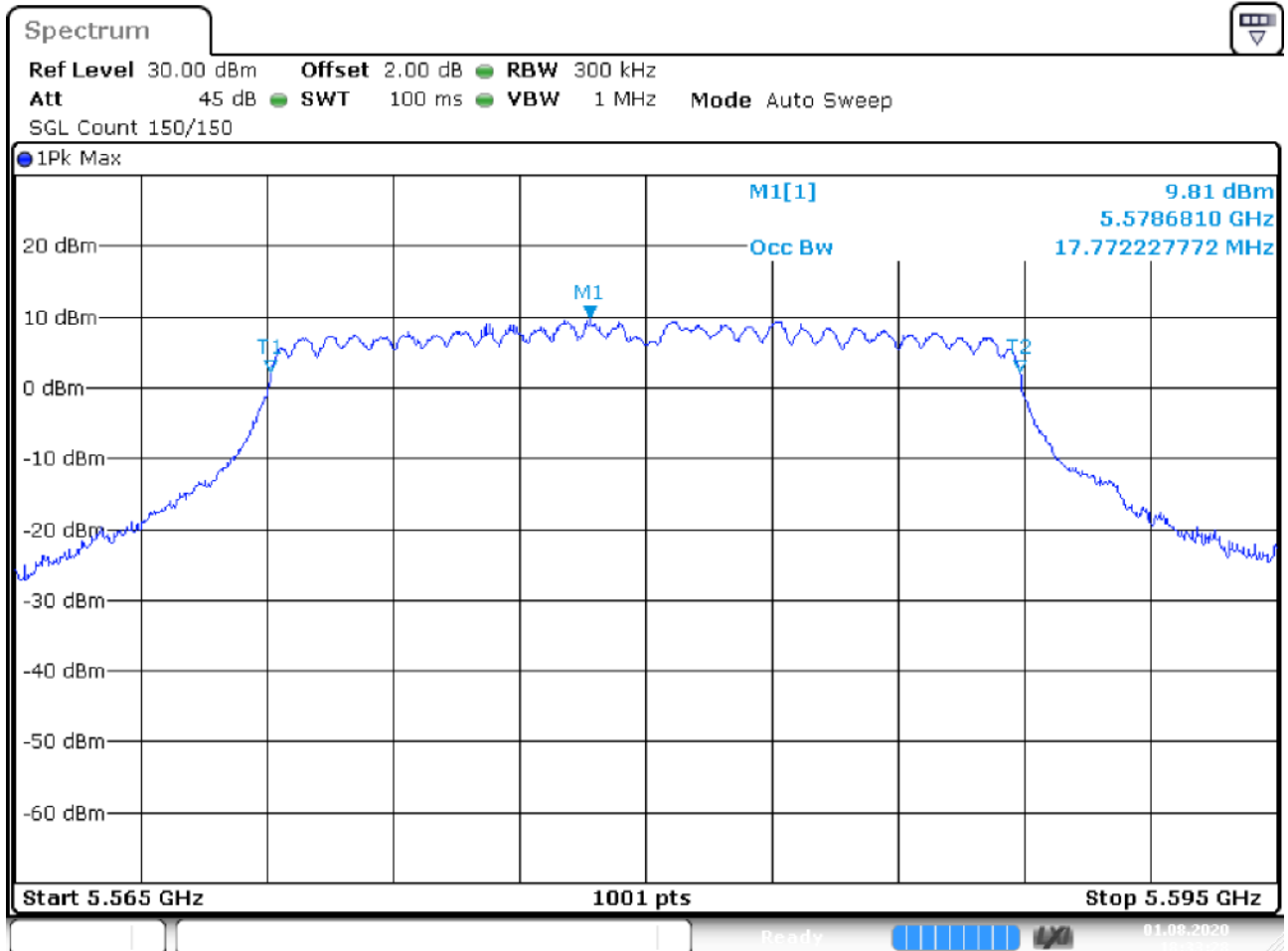
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Date: 1.AUG.2020 15:59:52



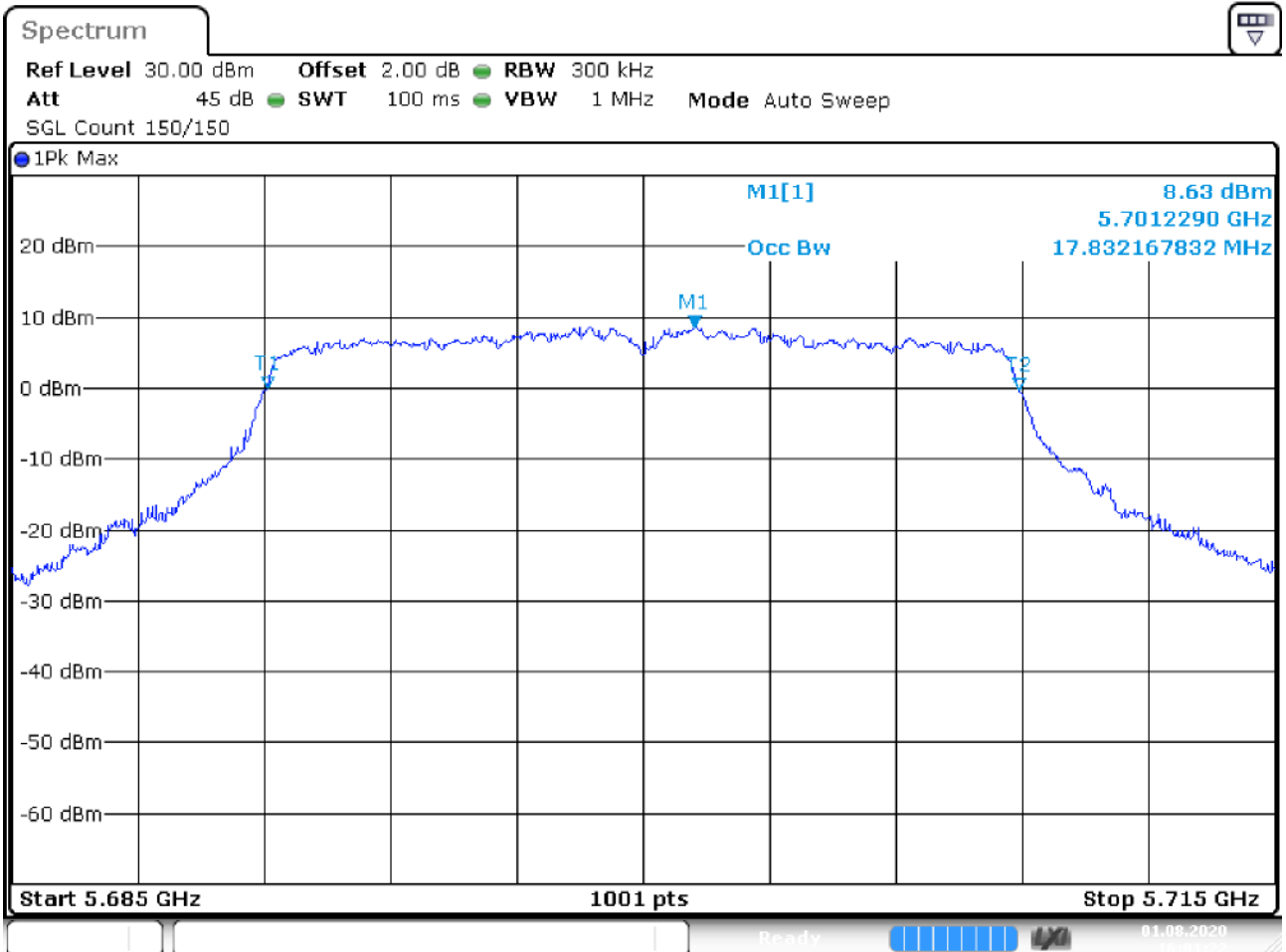
4.7.2.82 11AC20MIMO_116 ANT 2



Date: 1.AUG.2020 18:33:28



4.7.2.83 11AC20MIMO_140 ANT 1



Date: 1.AUG.2020 16:01:23

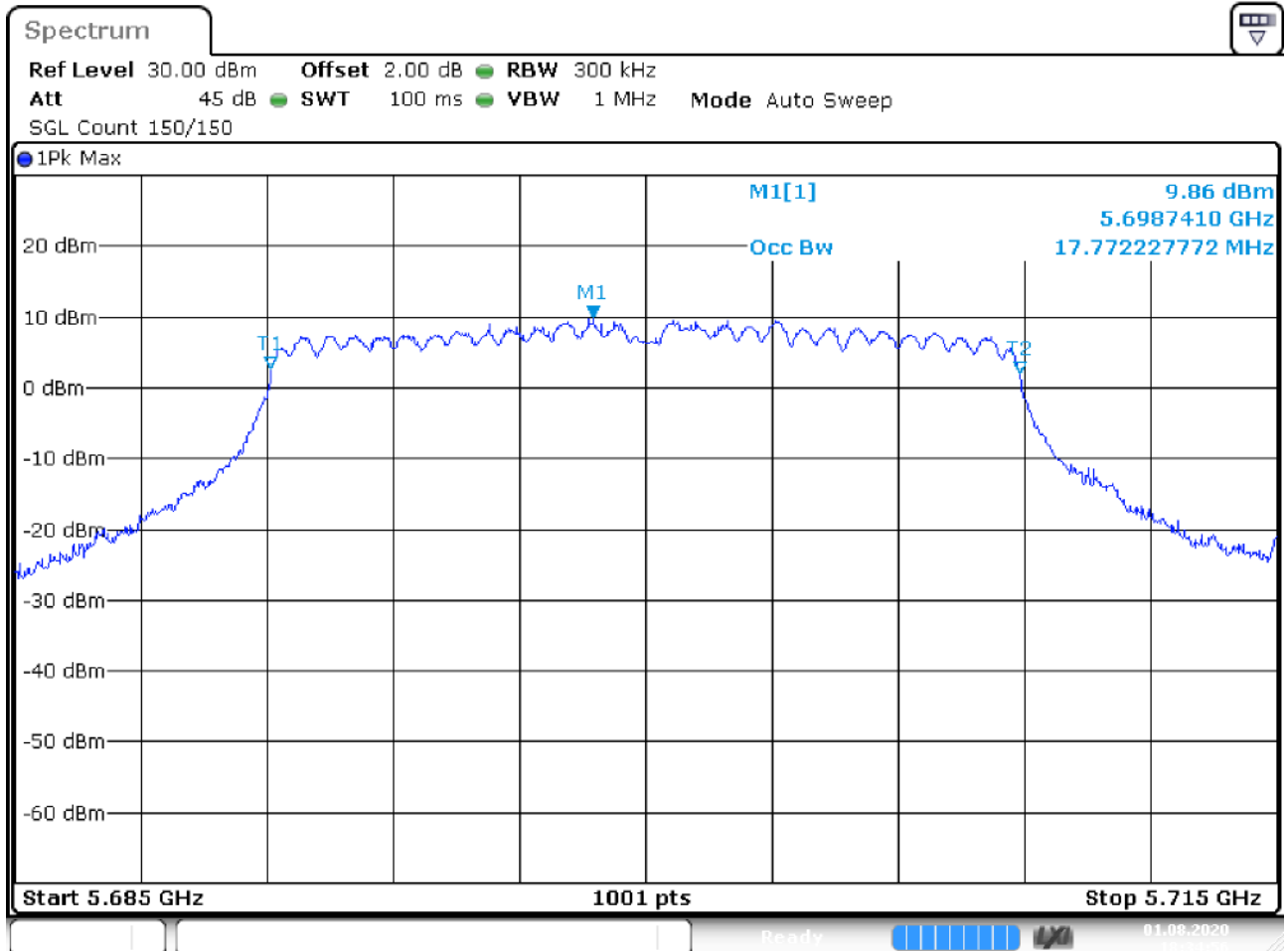


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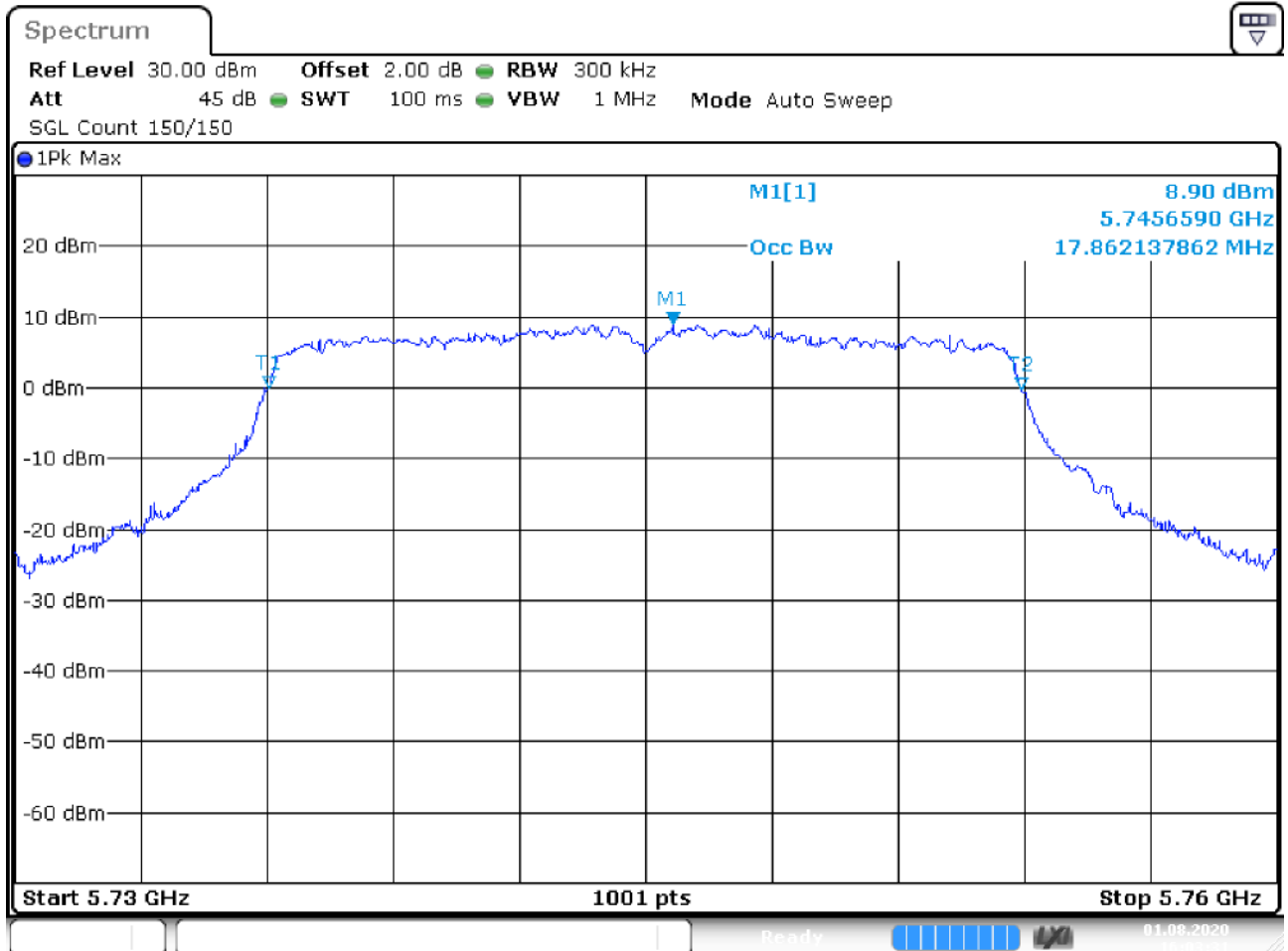
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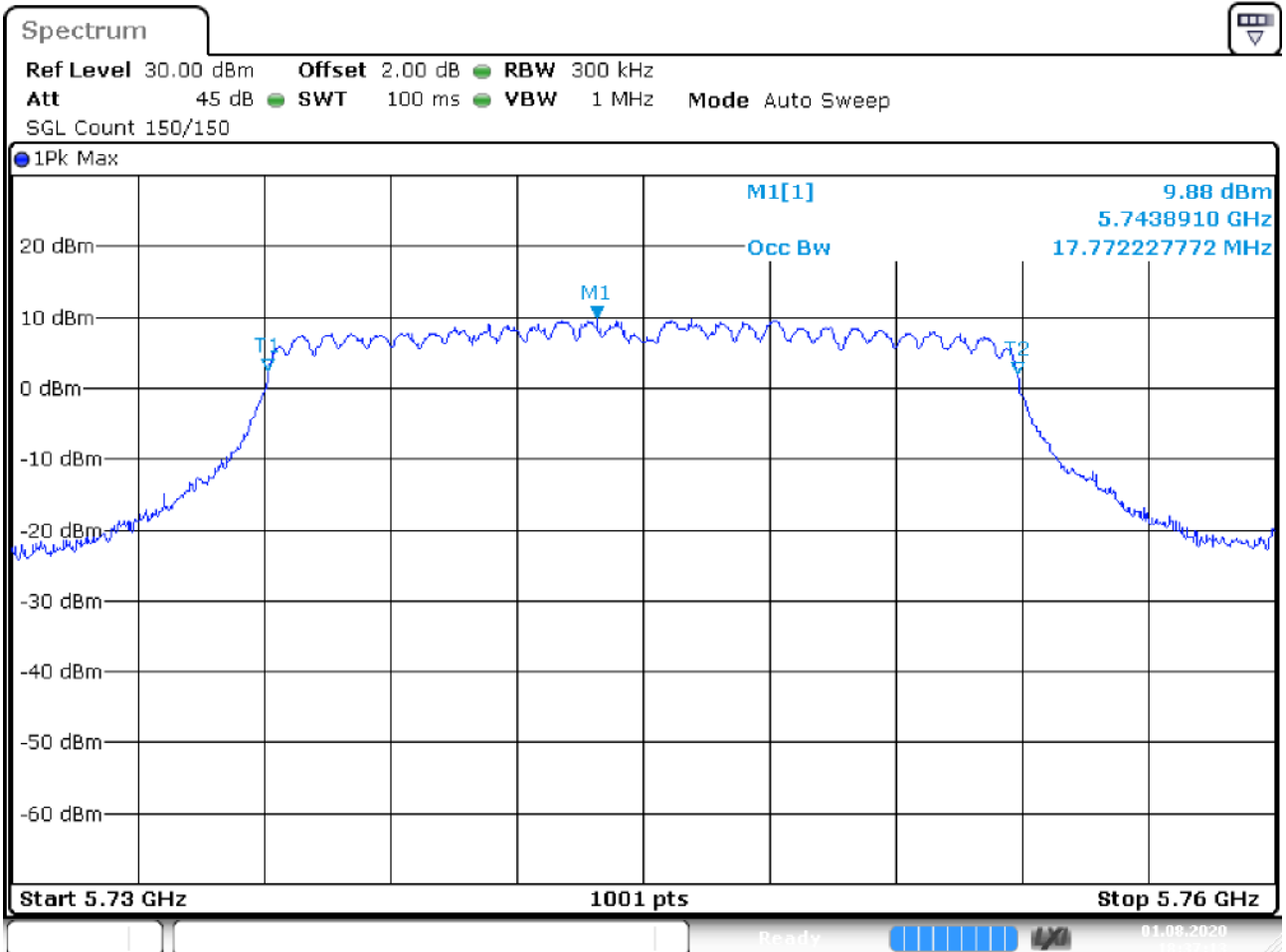
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Date: 1.AUG.2020 16:03:32



4.7.2.86 11AC20MIMO_149 ANT 2



Date: 1.AUG.2020 18:37:13

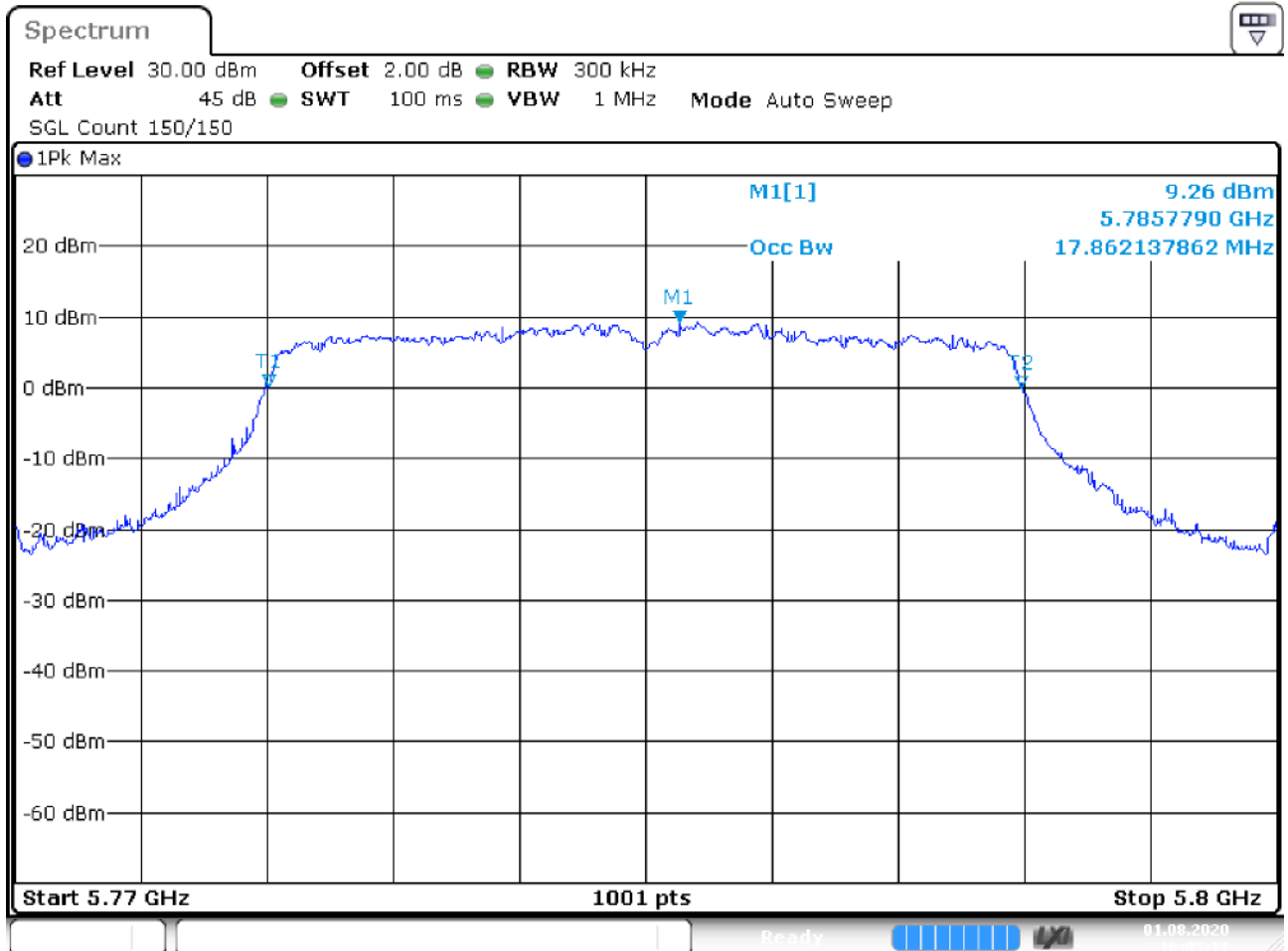


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4.7.2.87 11AC20MIMO_157 ANT 1



Date: 1.AUG.2020 16:05:11

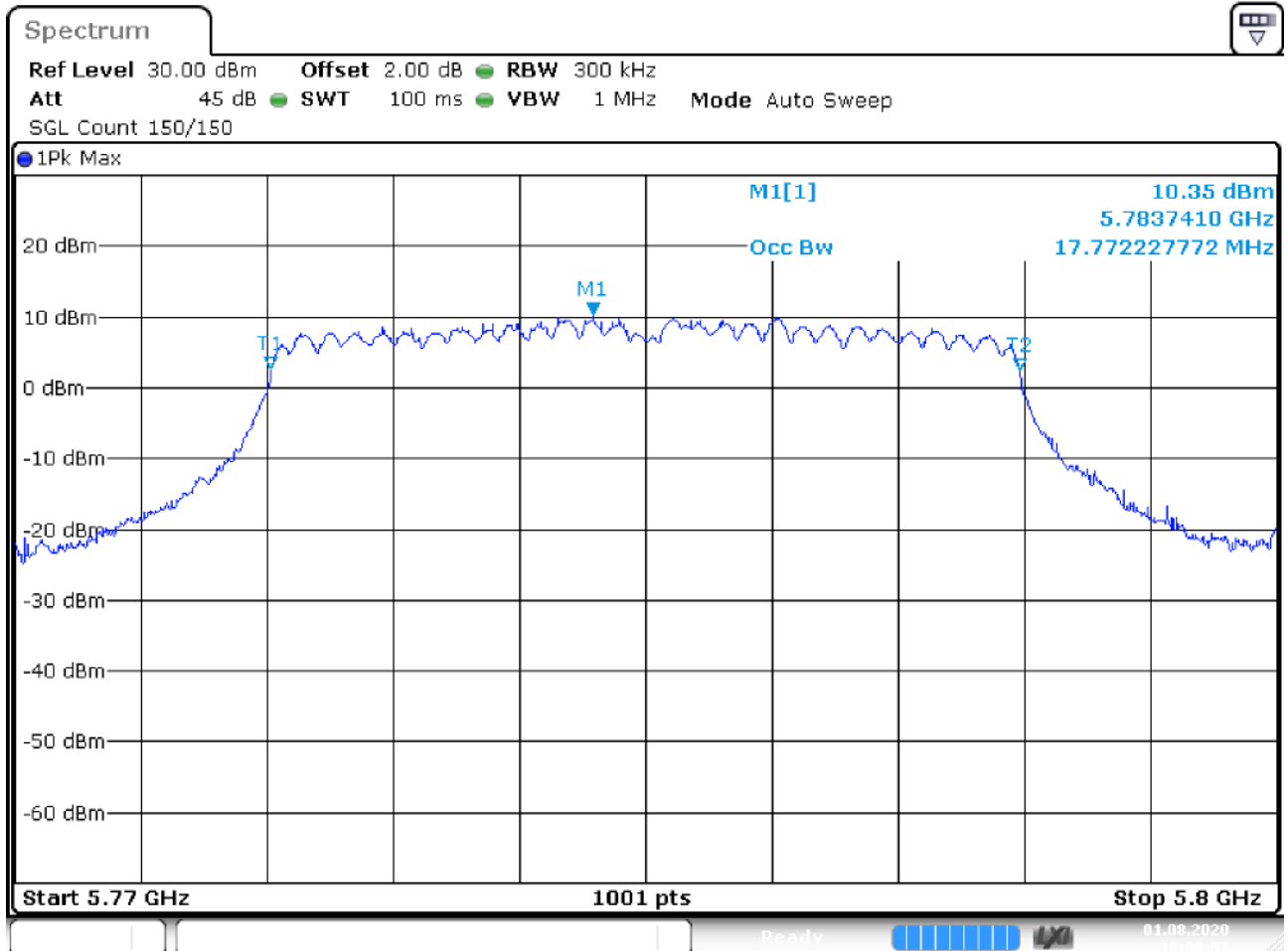


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4.7.2.88 11AC20MIMO_157 ANT 2



Date: 1.AUG.2020 18:38:58

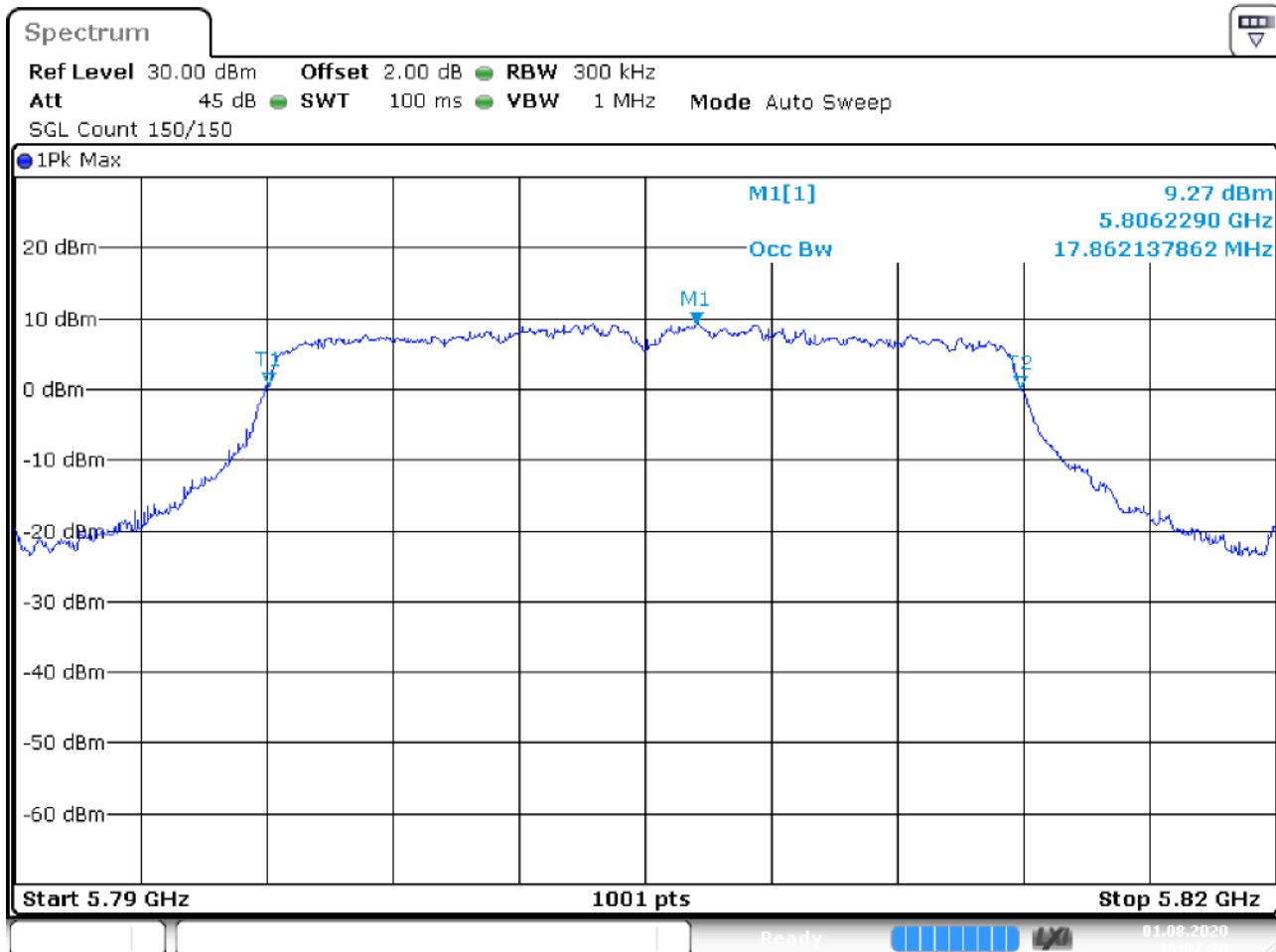


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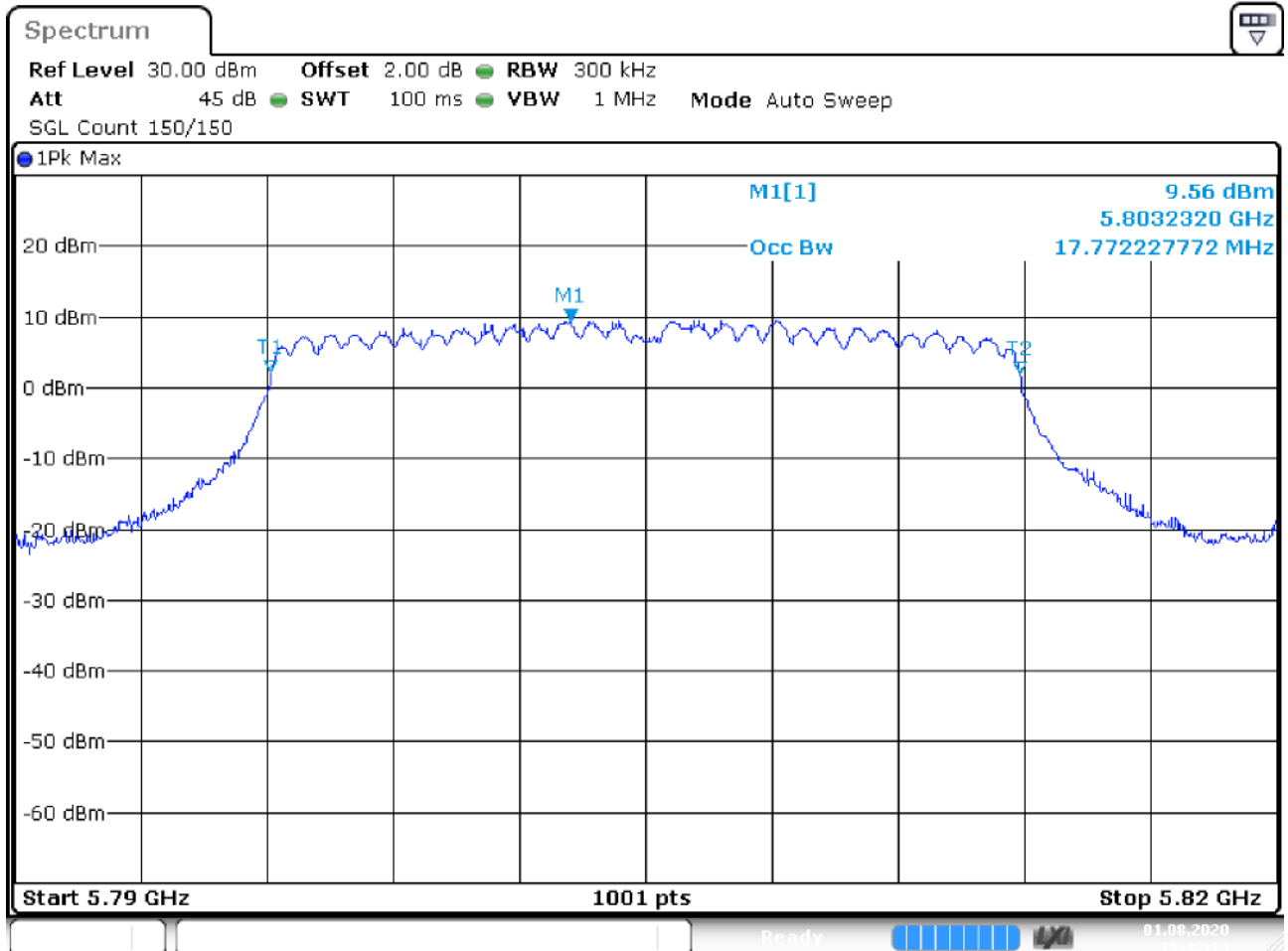
4.7.2.89 11AC20MIMO_161 ANT 1



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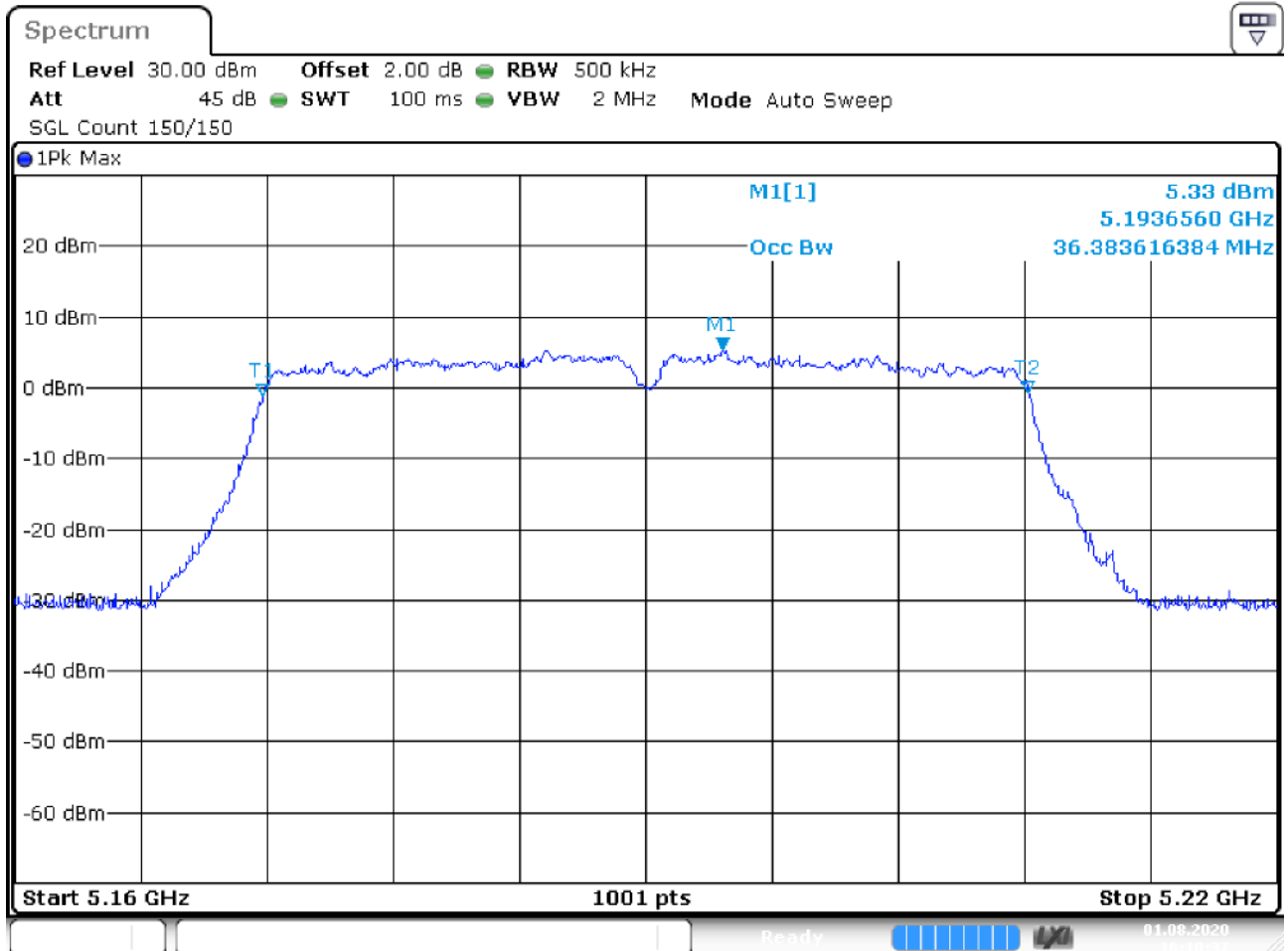
4.7.2.90 11AC20MIMO_161 ANT 2



Date: 1.AUG.2020 18:42:14



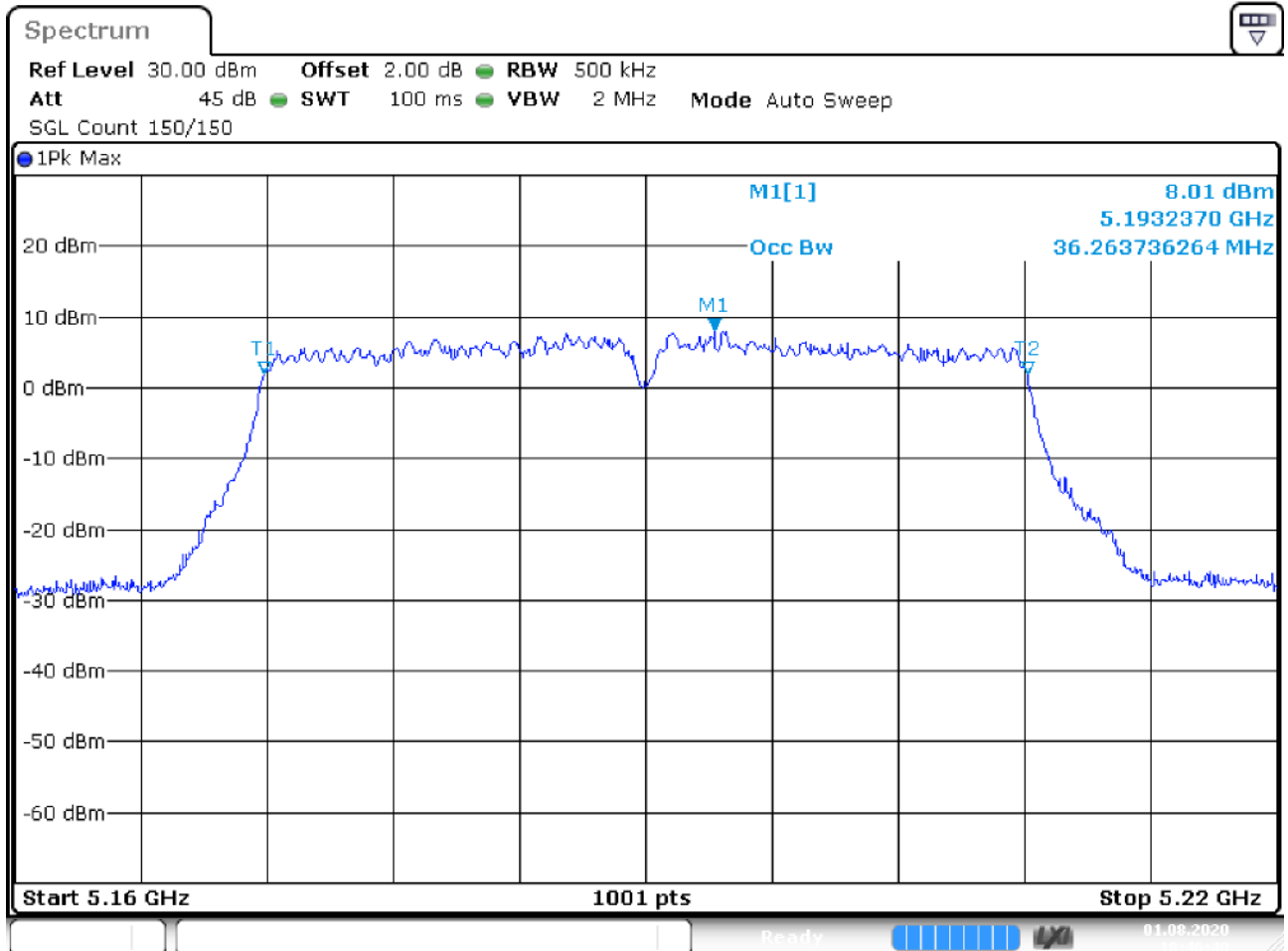
4.7.2.91 11AC40MIMO_38 ANT 1



Date: 1.AUG.2020 16:10:38



4.7.2.92 11AC40MIMO_38 ANT 2



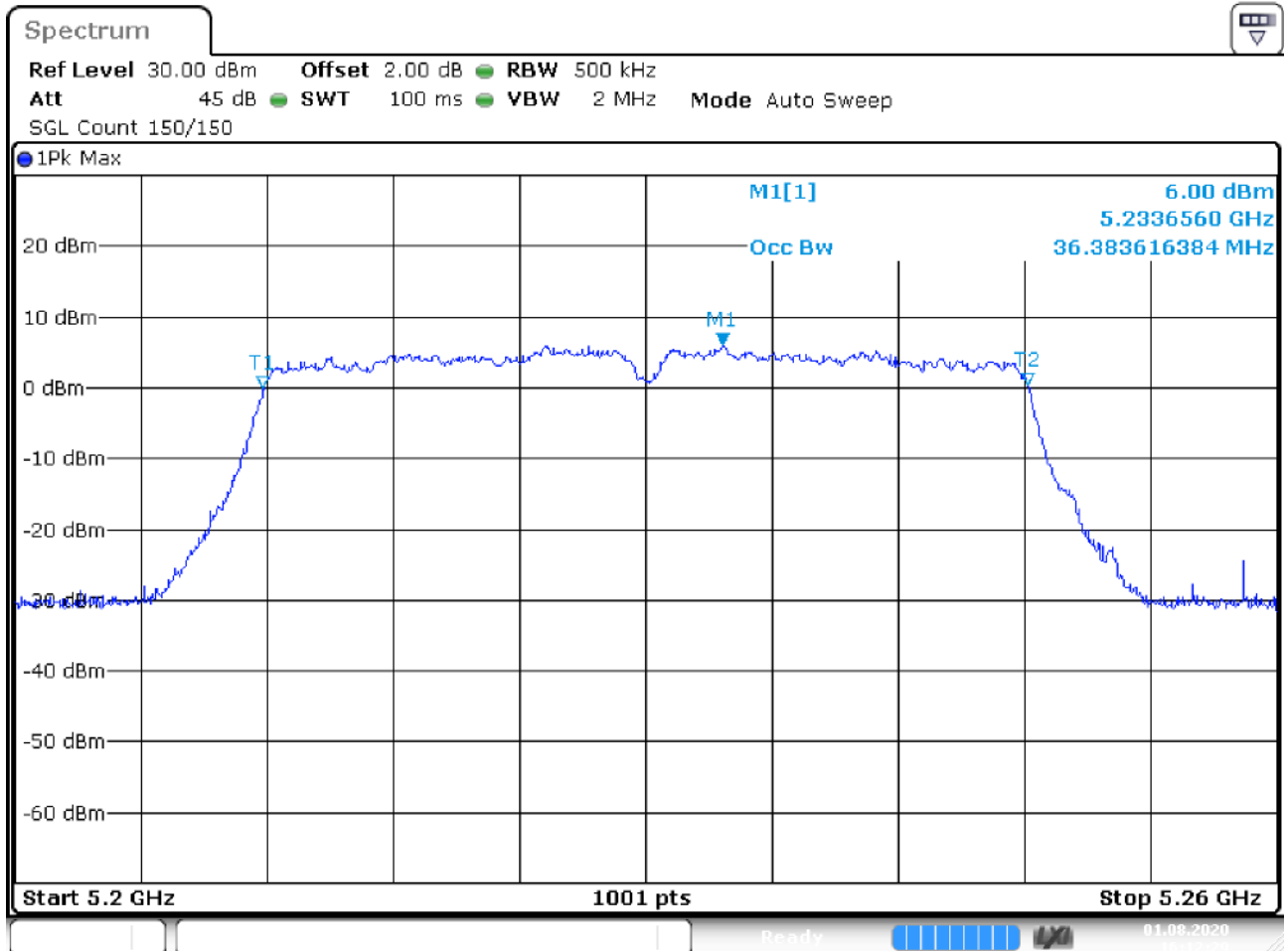
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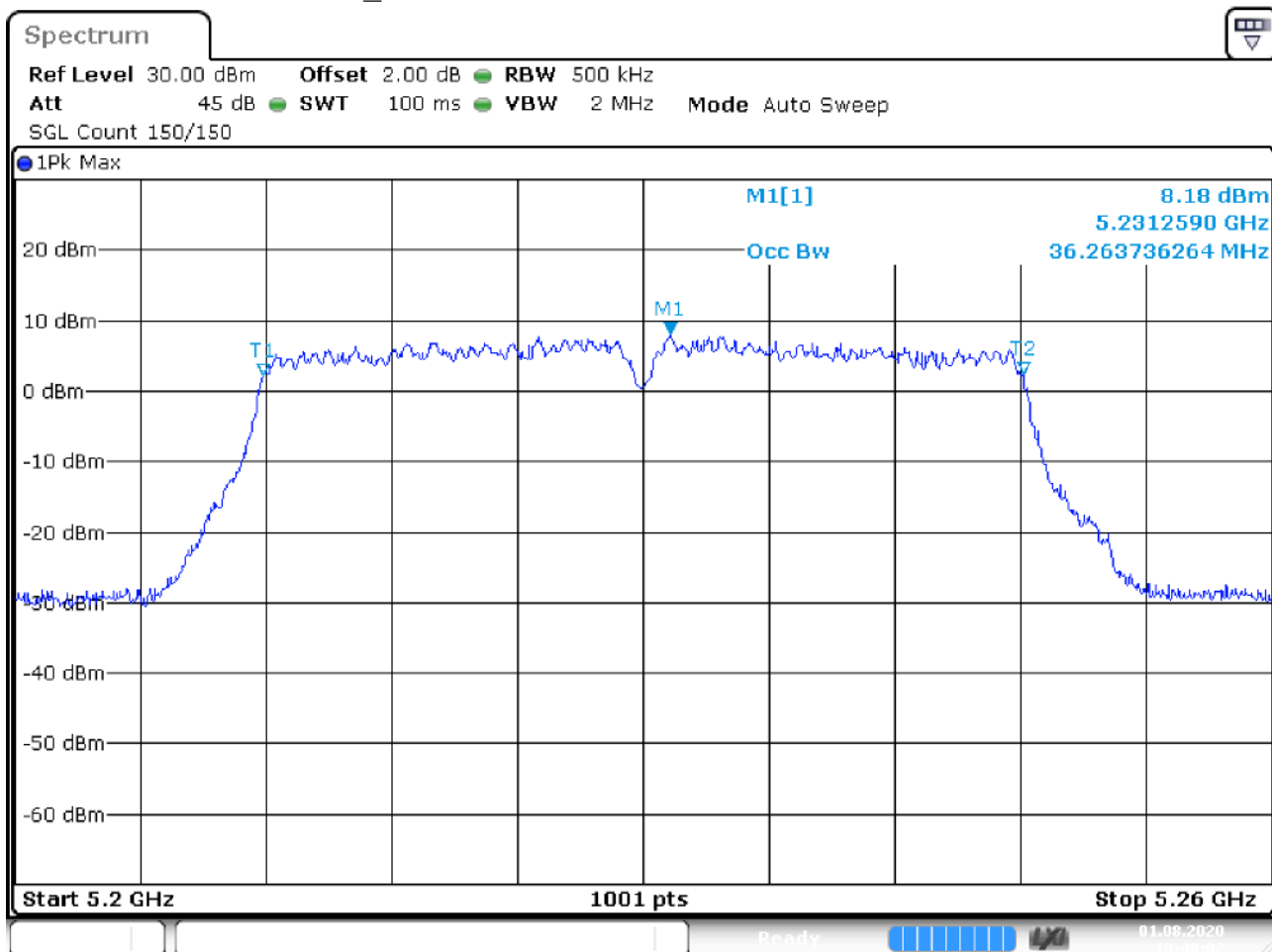
4.7.2.93 11AC40MIMO_46 ANT 1



Date: 1.AUG.2020 16:12:29



4.7.2.94 11AC40MIMO 46 ANT 2



Date: 1.AUG.2020 18:49:02



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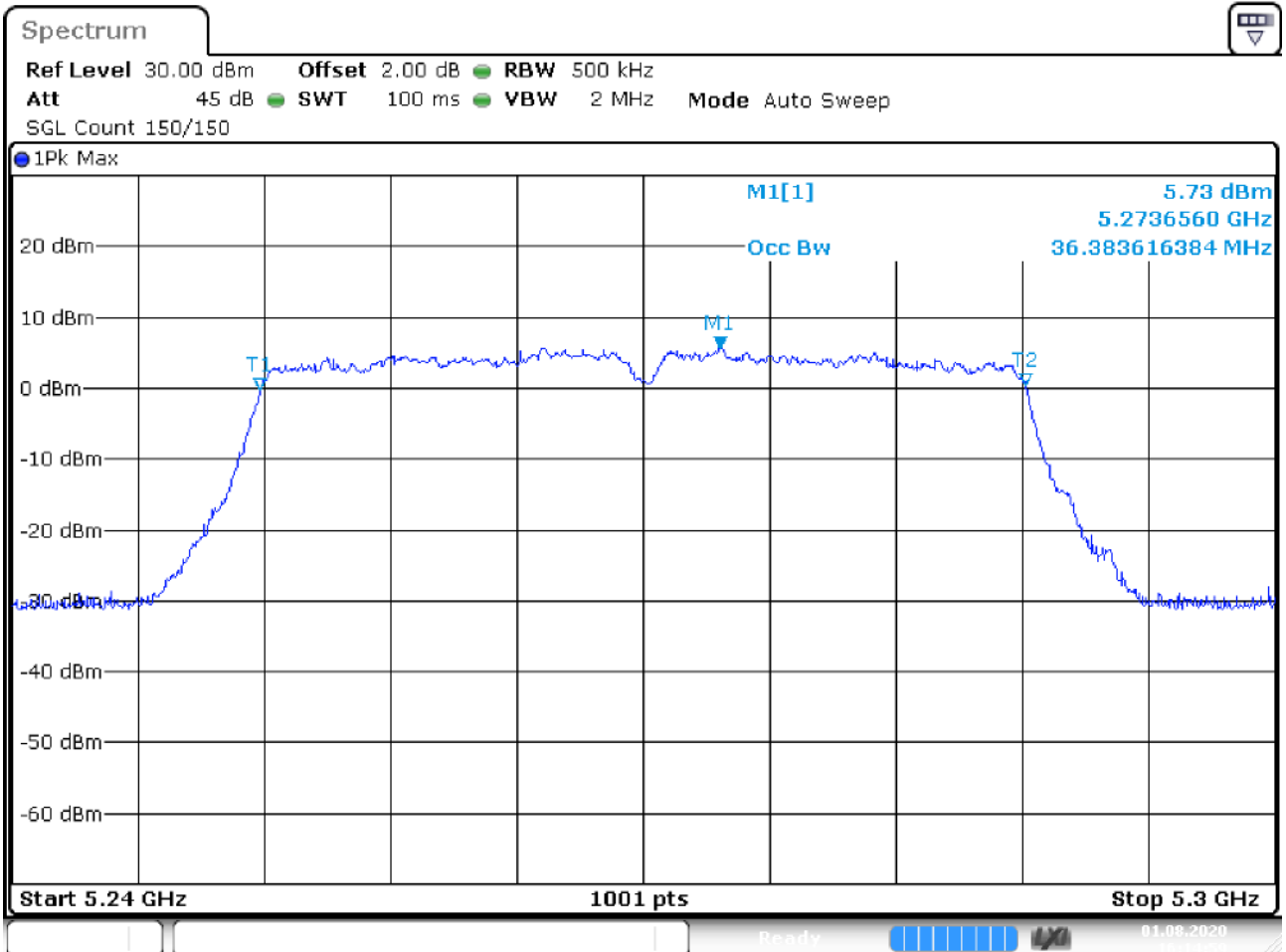
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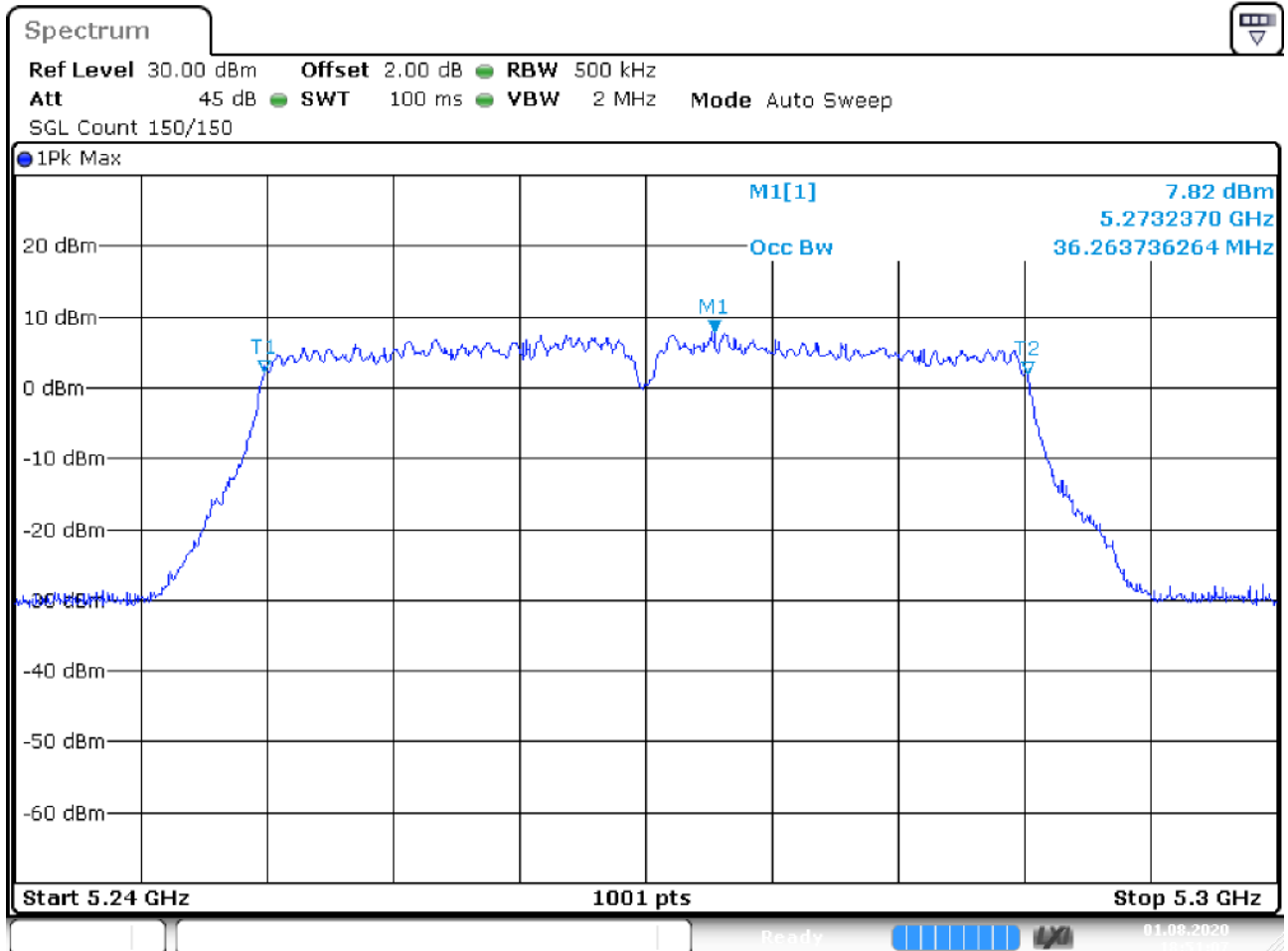
4.7.2.95 11AC40MIMO_54 ANT 1



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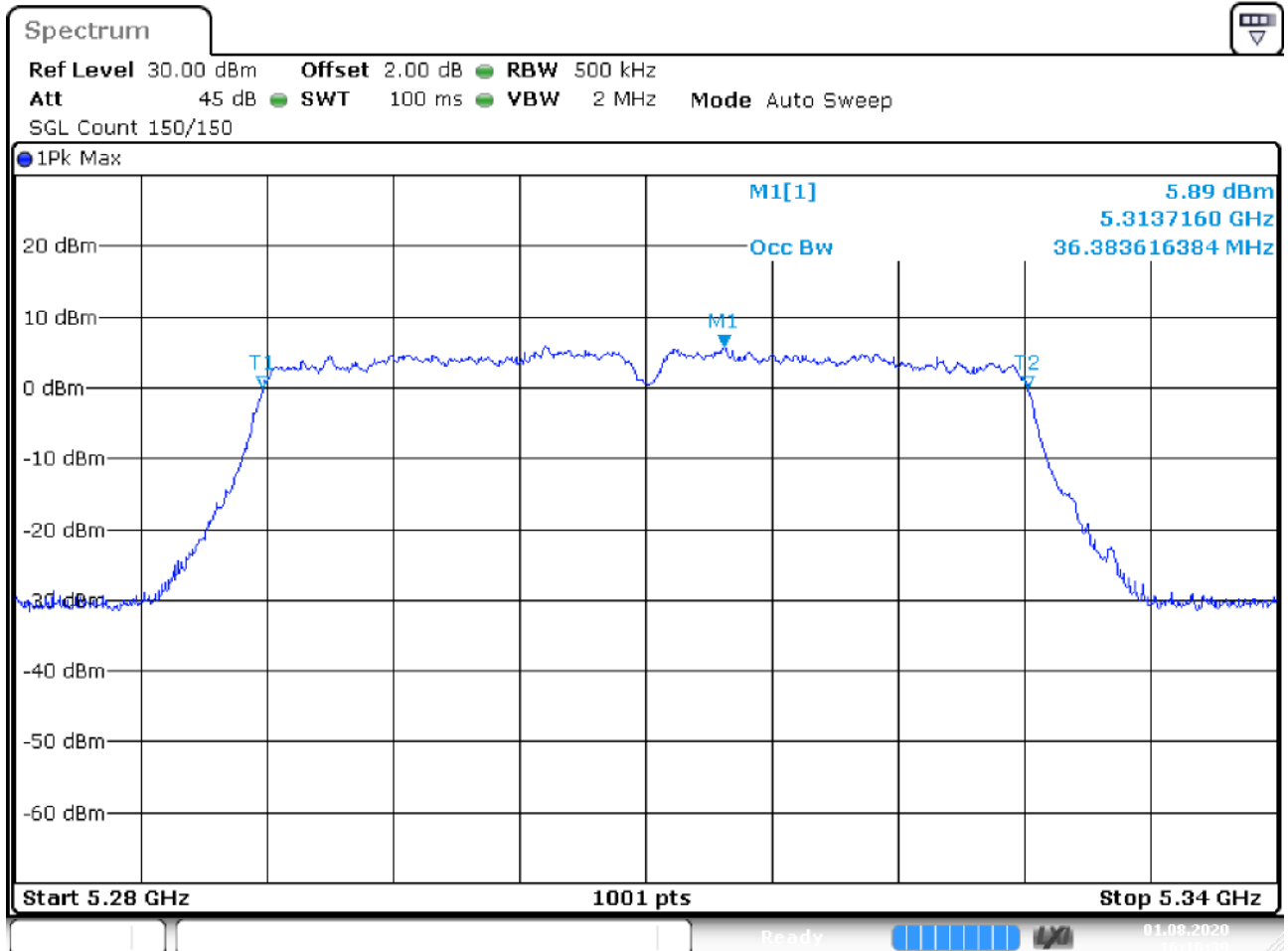
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Date: 1.AUG.2020 18:51:08



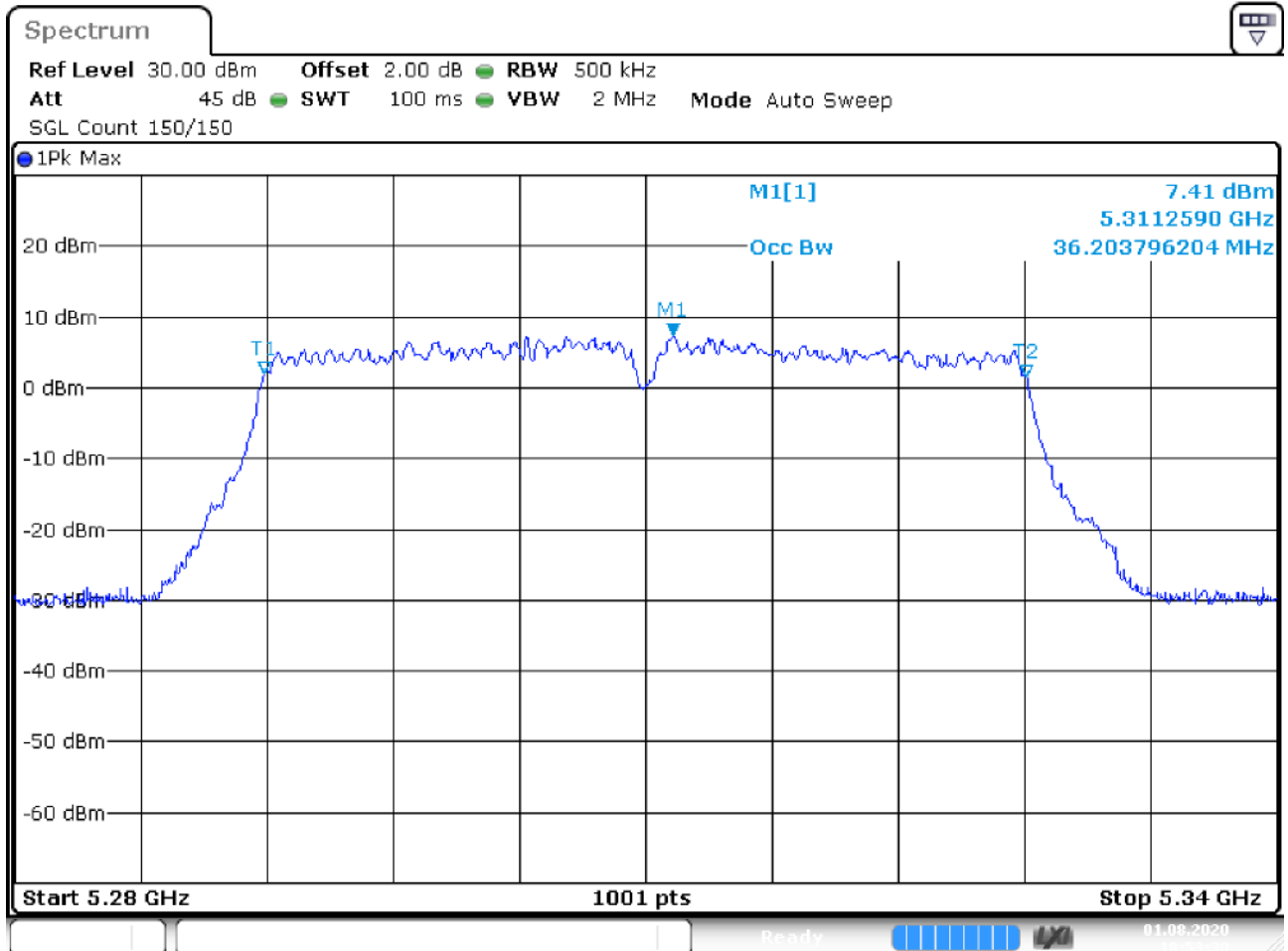
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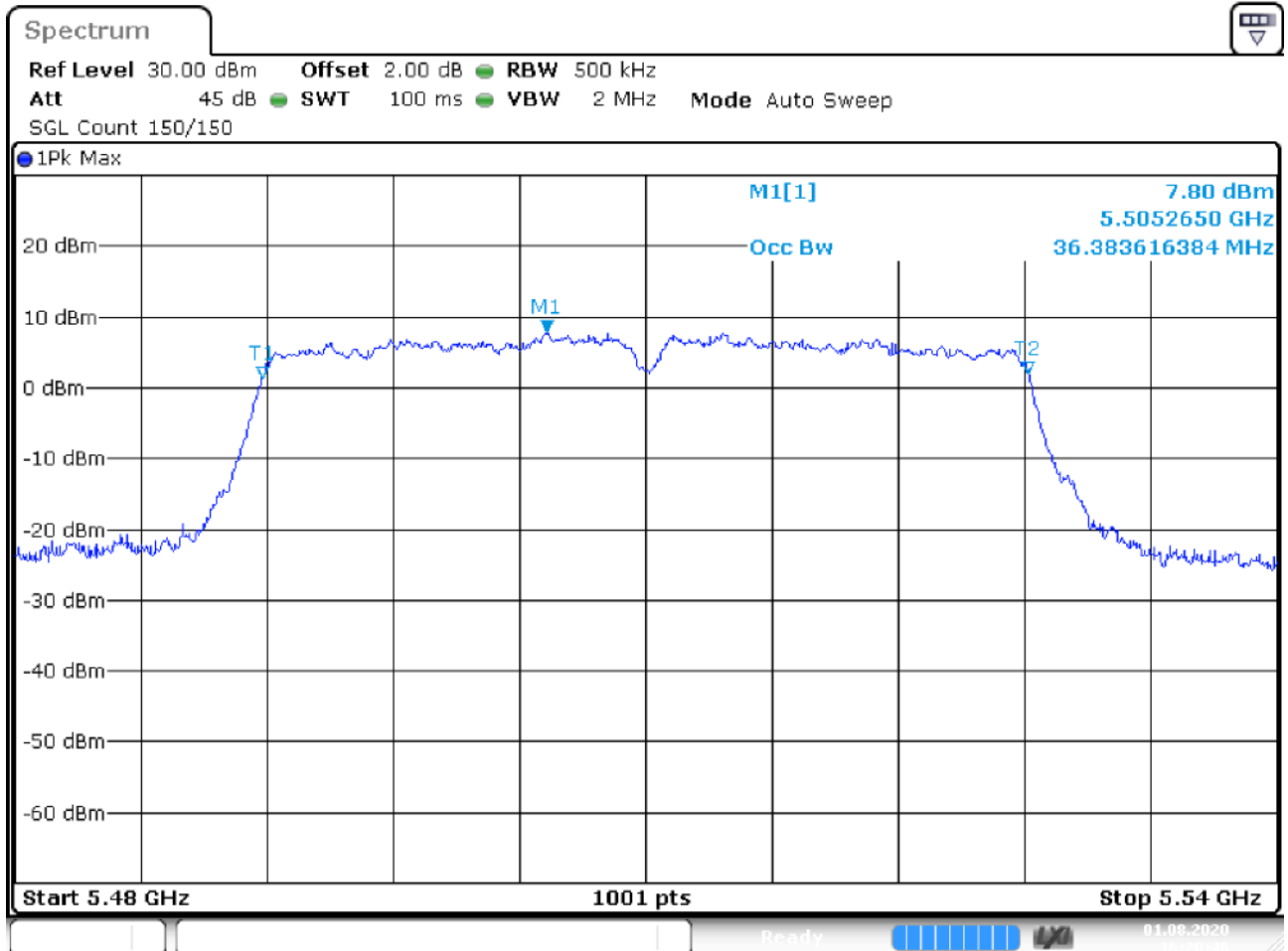
4.7.2.98 11AC40MIMO_62 ANT 2



Date: 1.AUG.2020 18:53:30



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Date: 1.AUG.2020 16:20:46

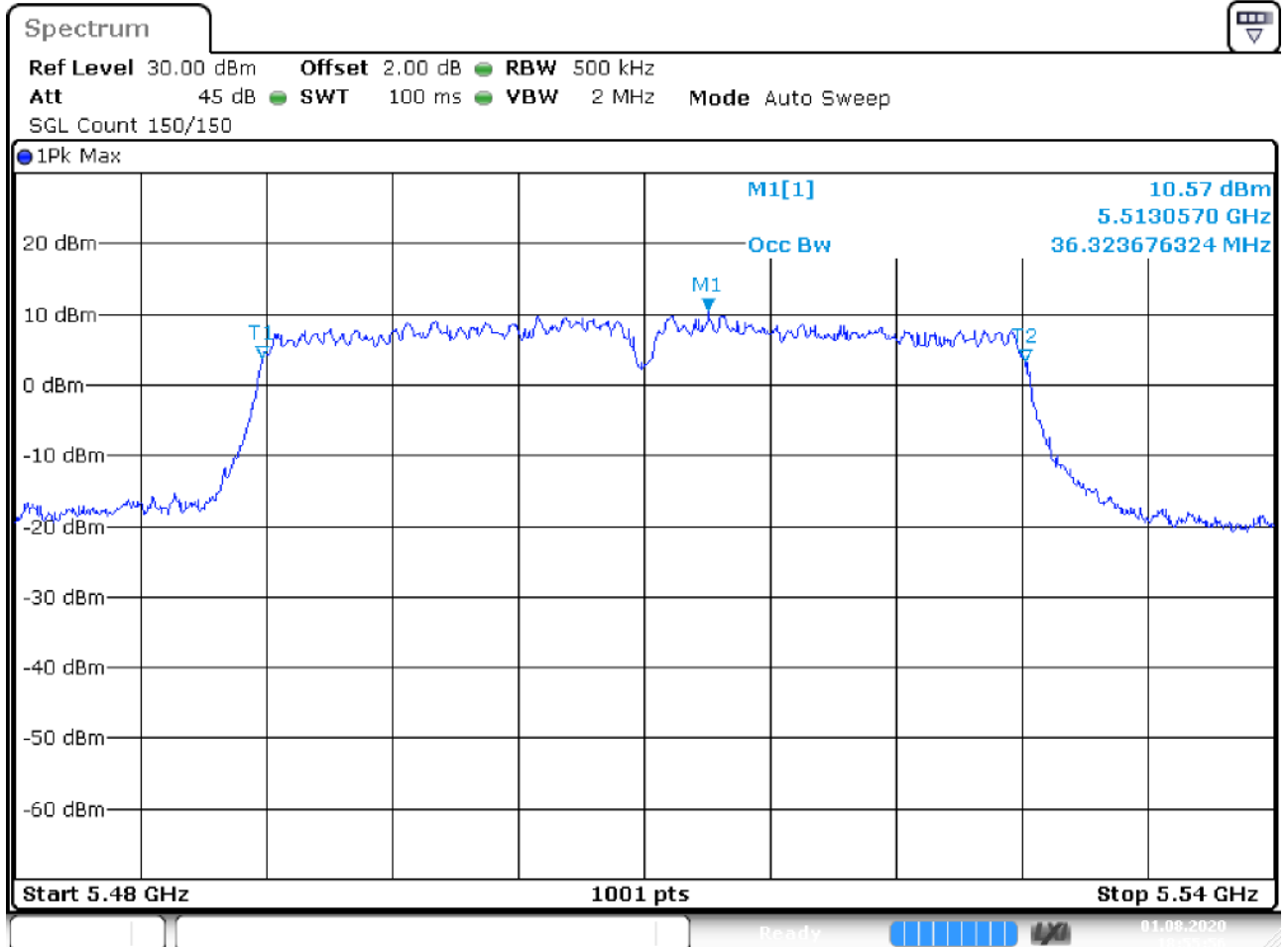


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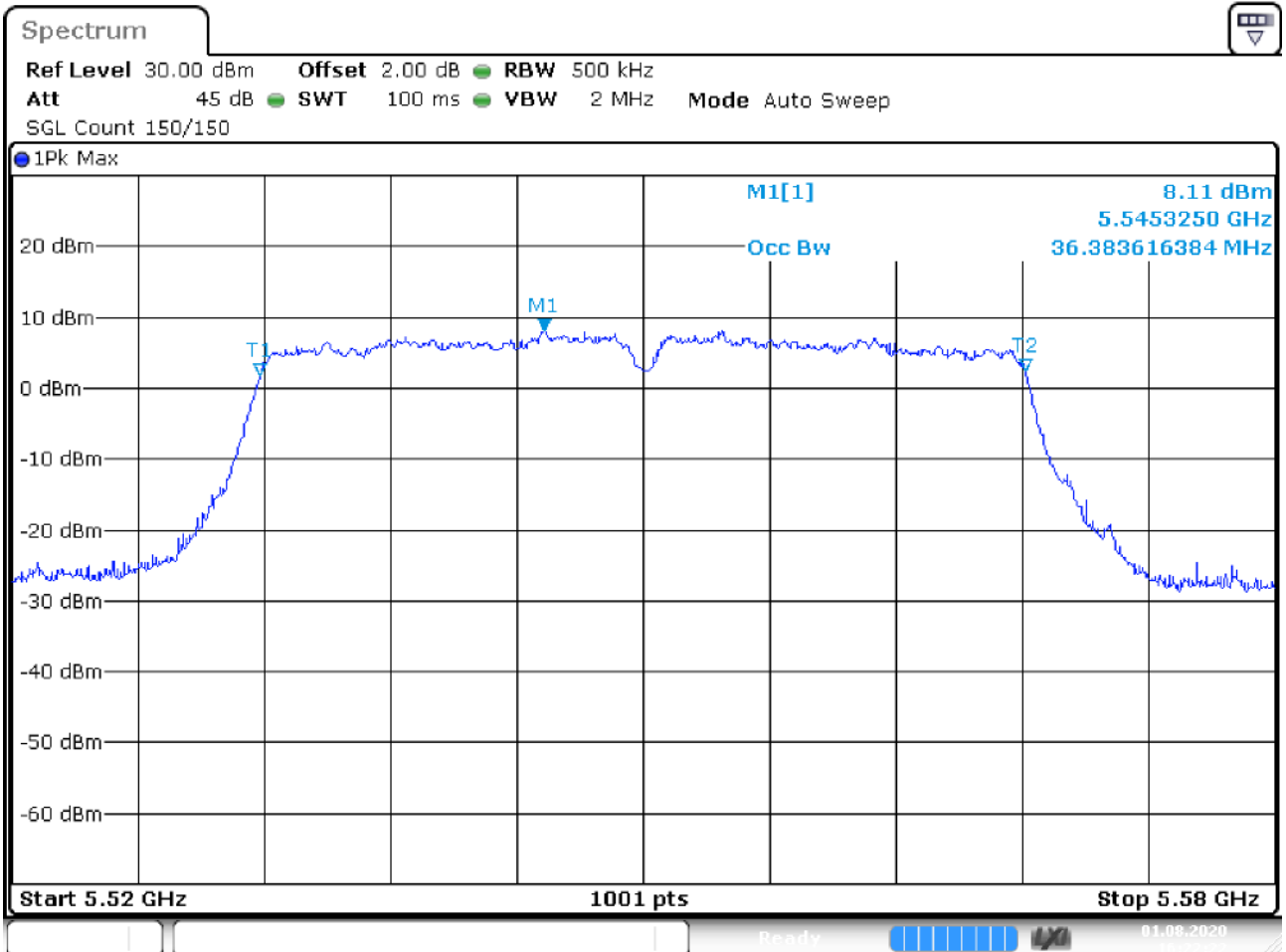
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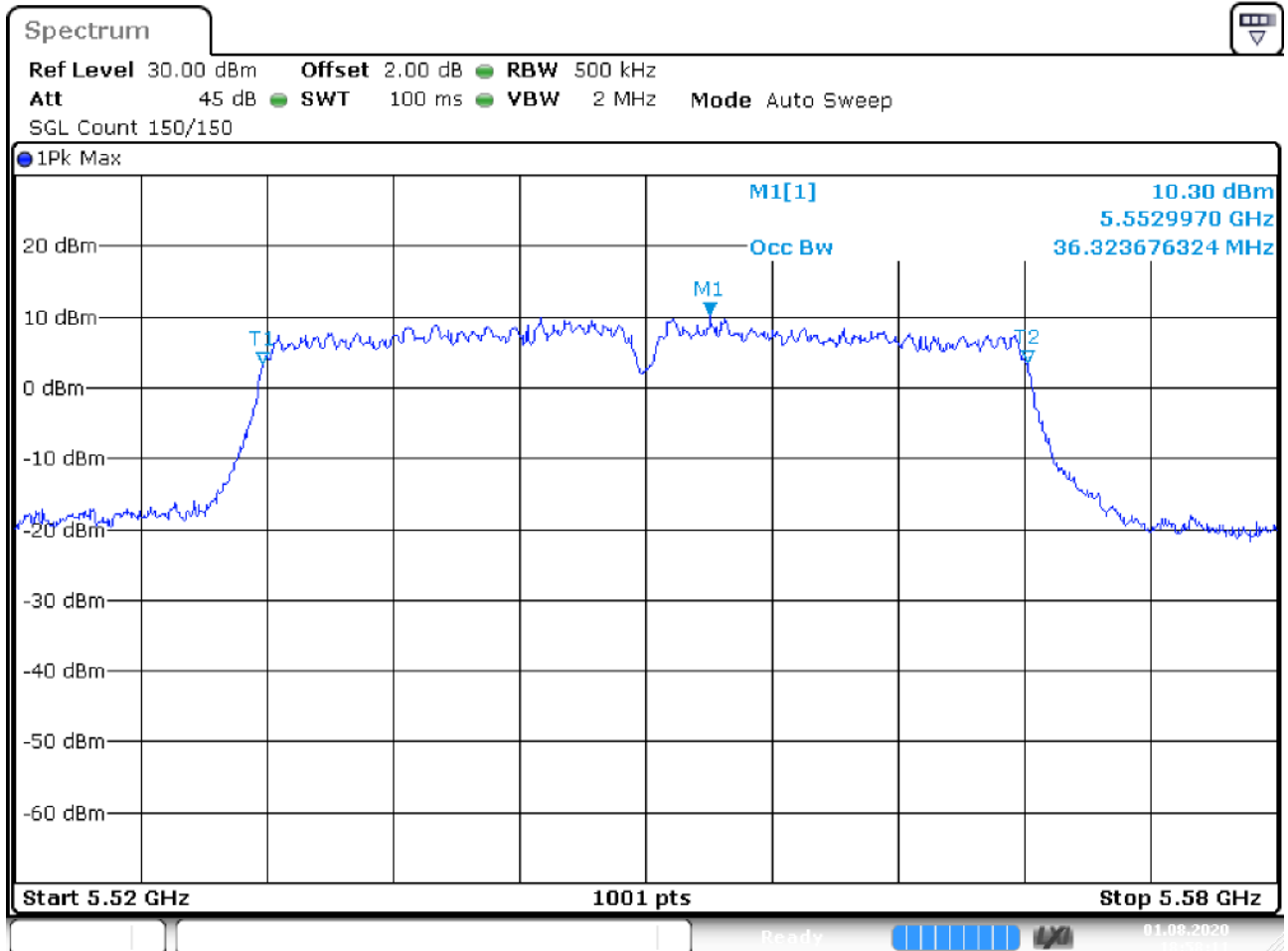
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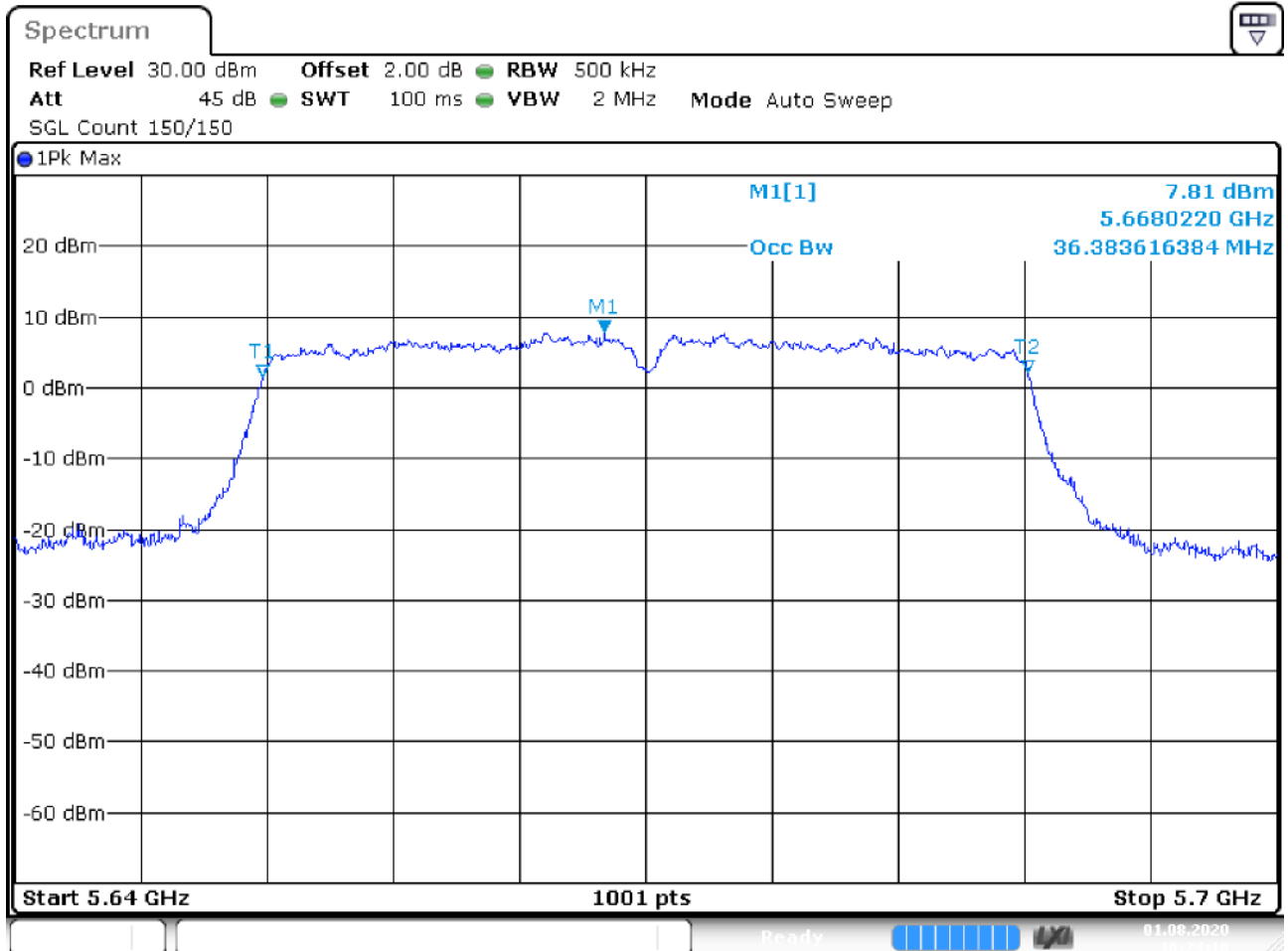
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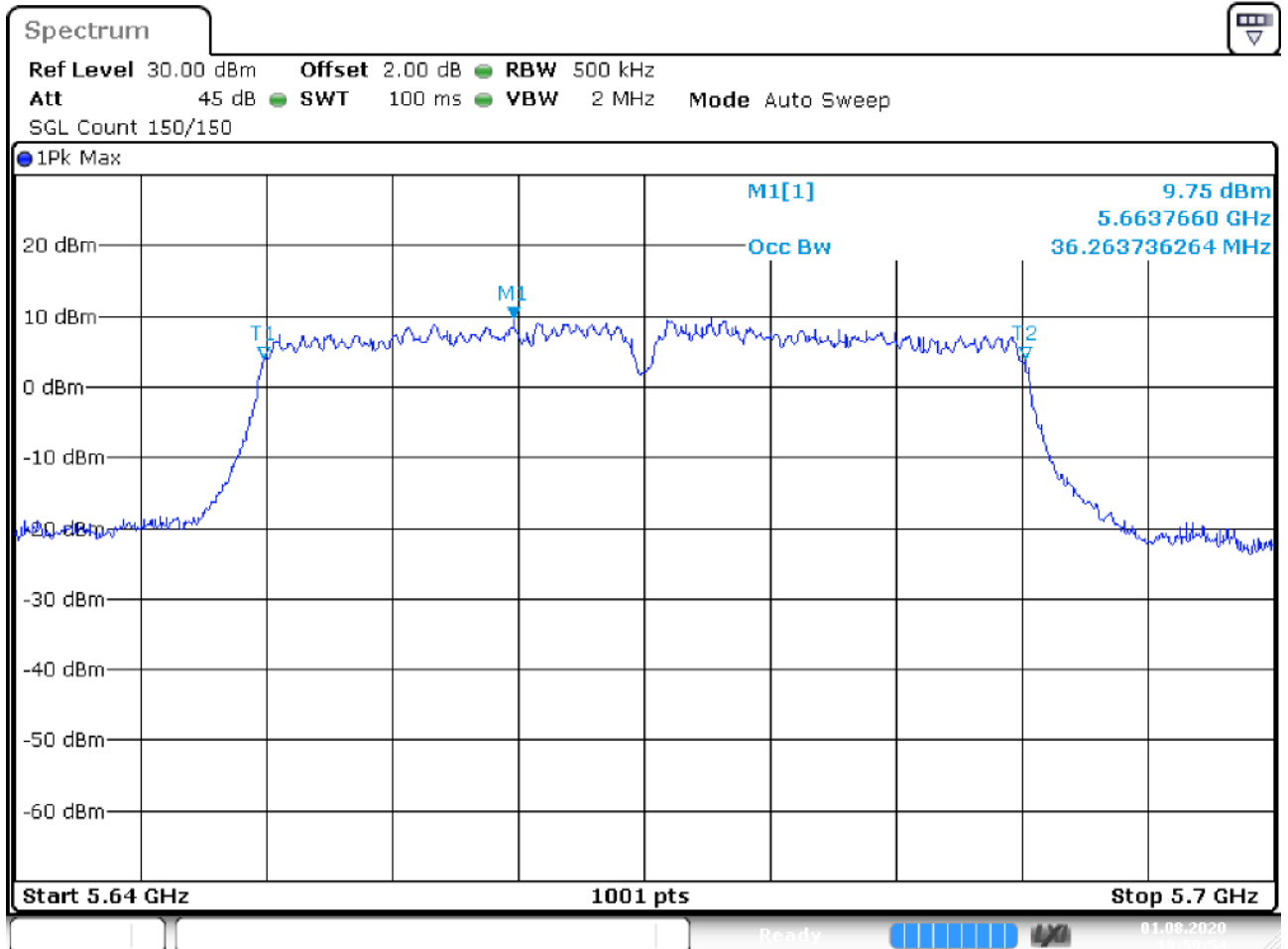
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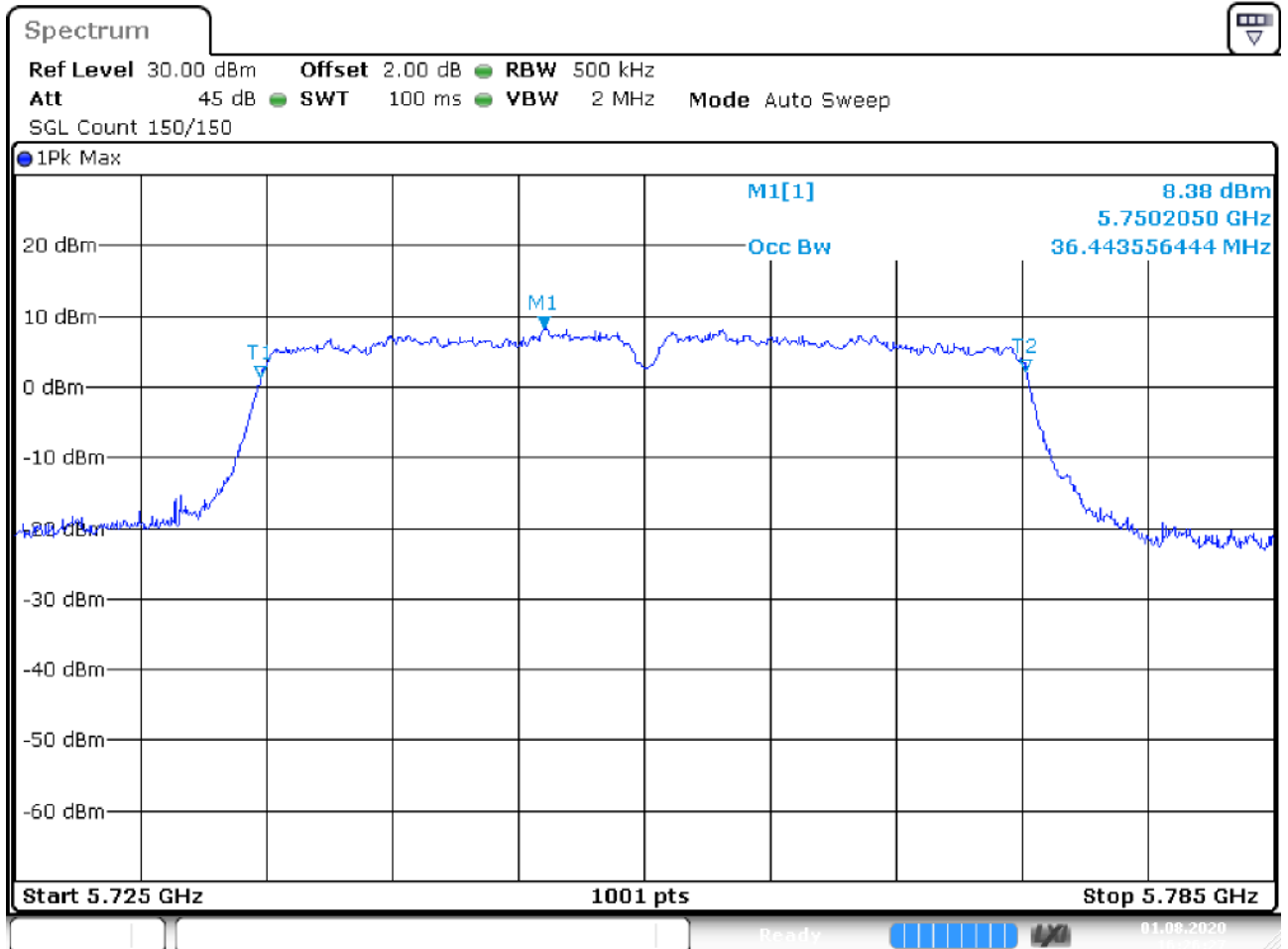
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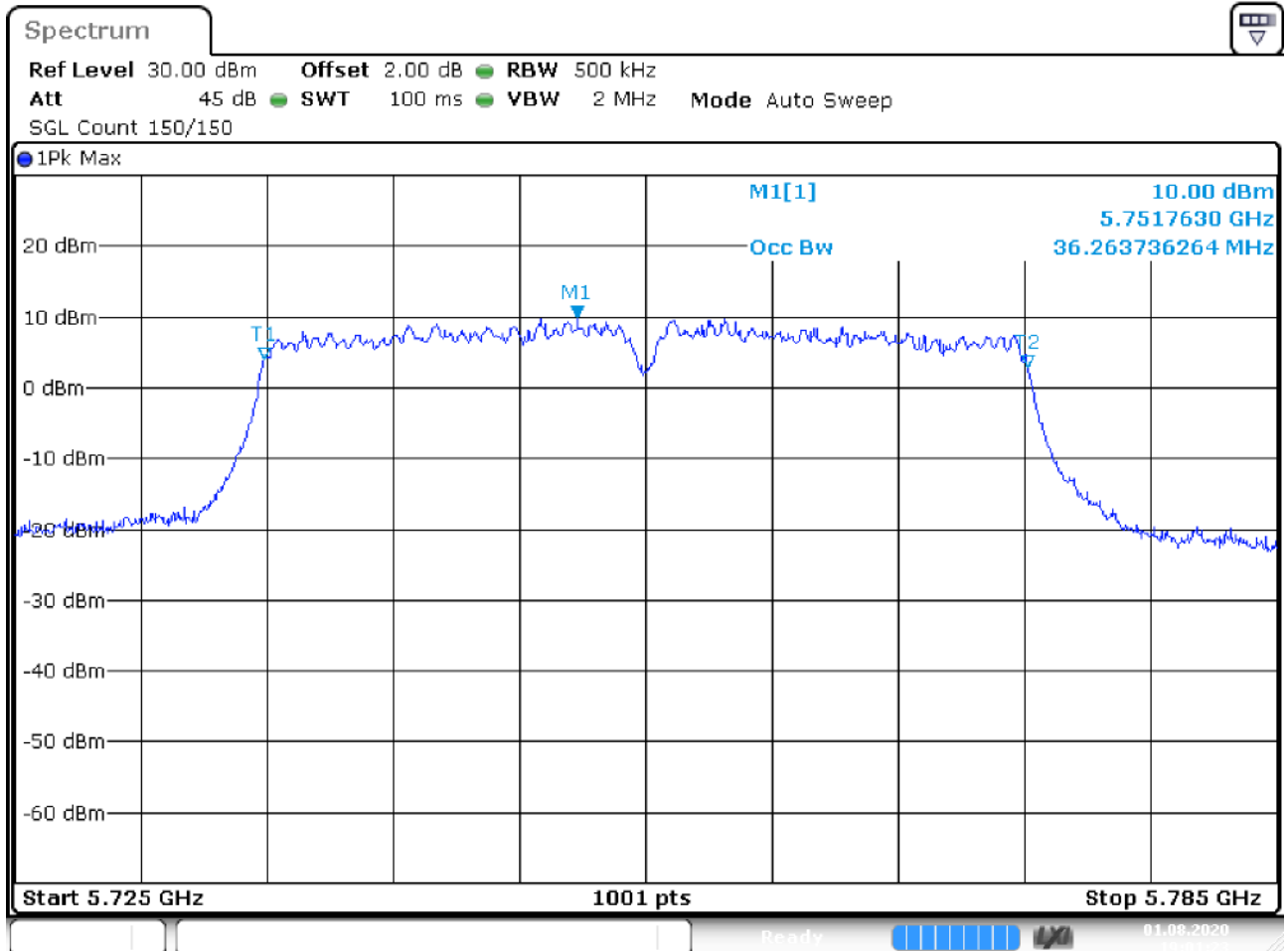
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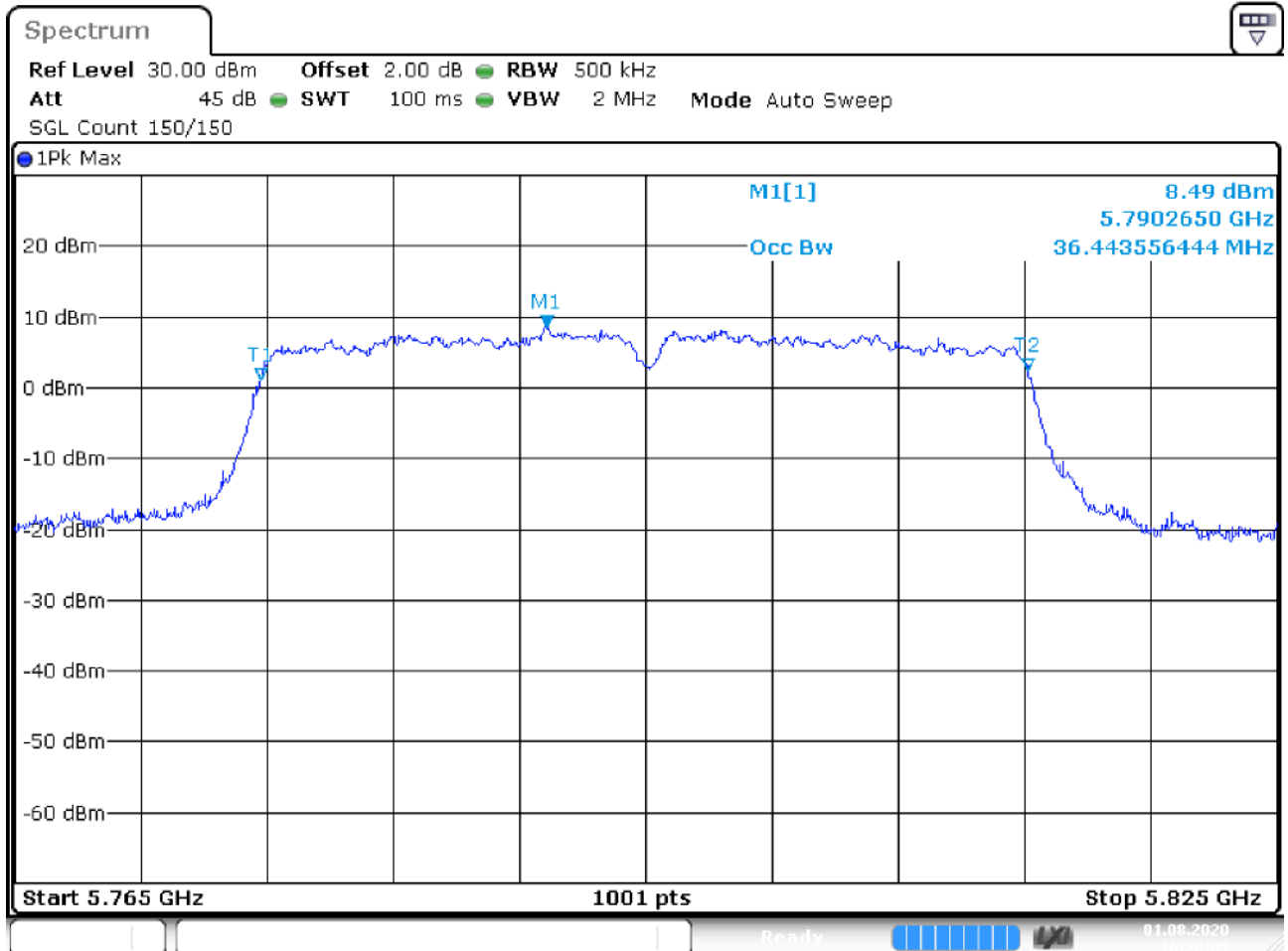
4.7.2.106 11AC40MIMO_151 ANT 2



Date: 1.AUG.2020 19:01:23



4.7.2.107 11AC40MIMO_159 ANT 1



Date: 1.AUG.2020 16:28:05

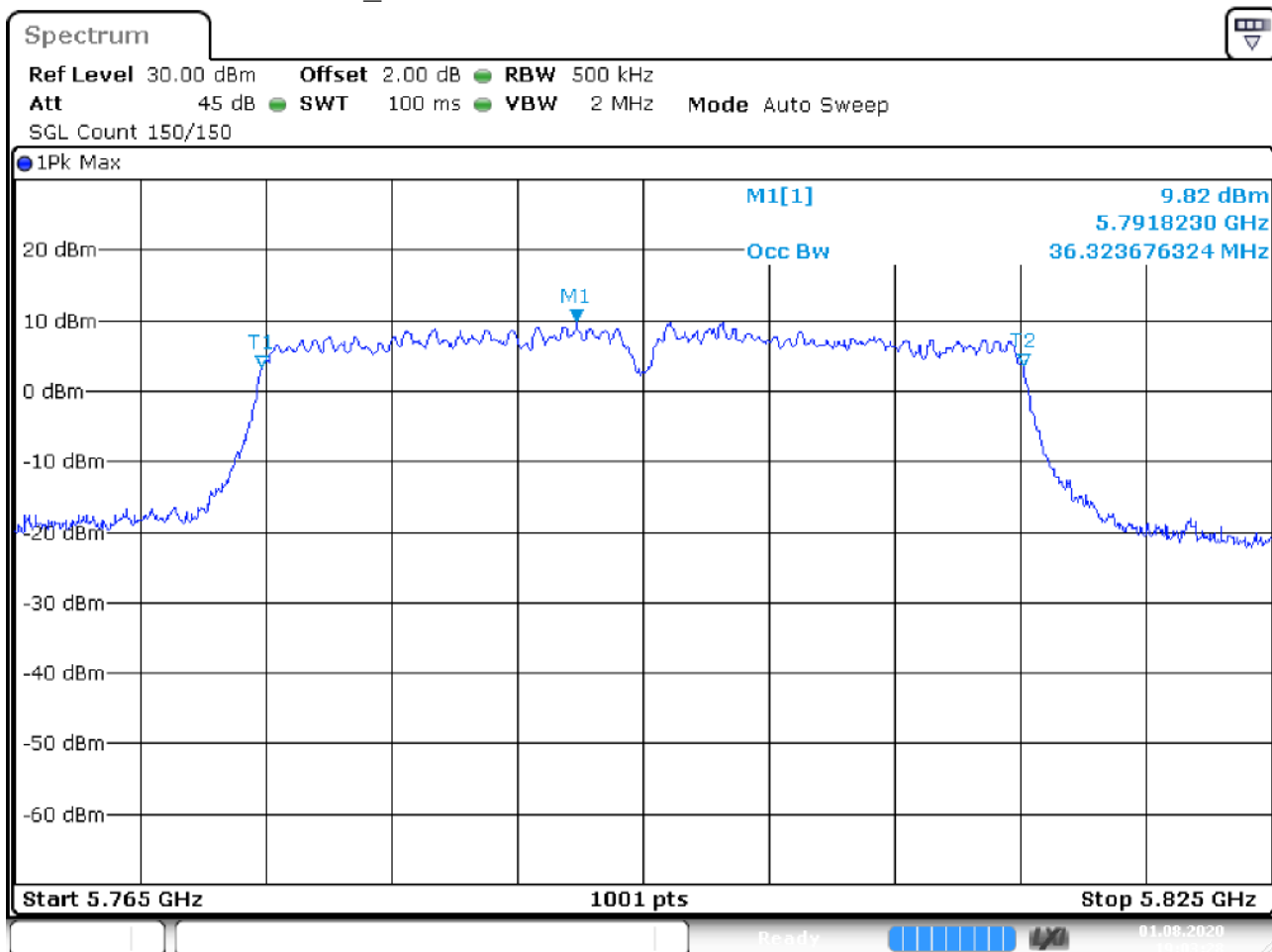


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4.7.2.108 **11AC40MIMO_159 ANT 2**



Date: 1.AUG.2020 19:03:28



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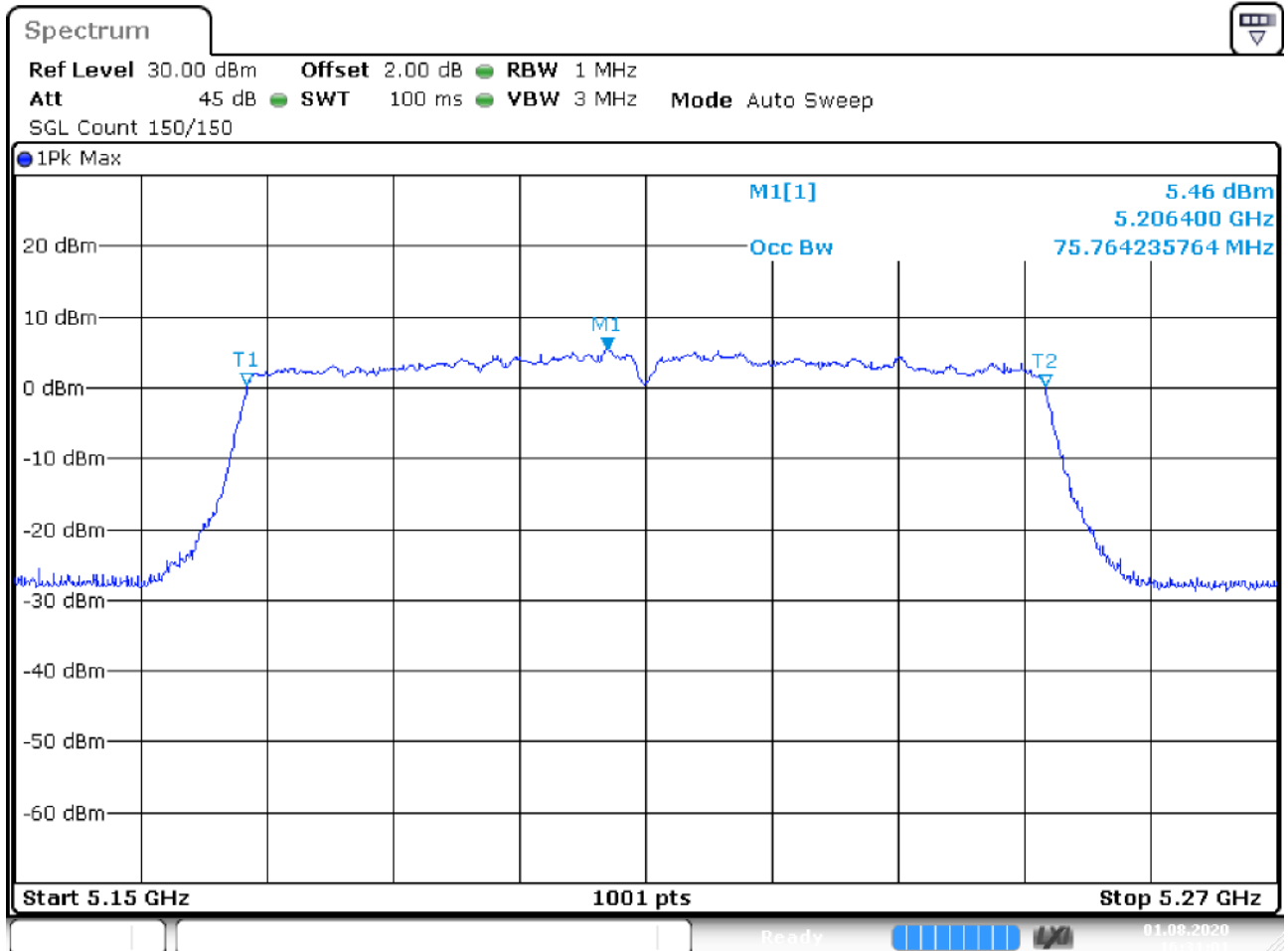
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4.7.2.109 11AC80MIMO_42 ANT 1



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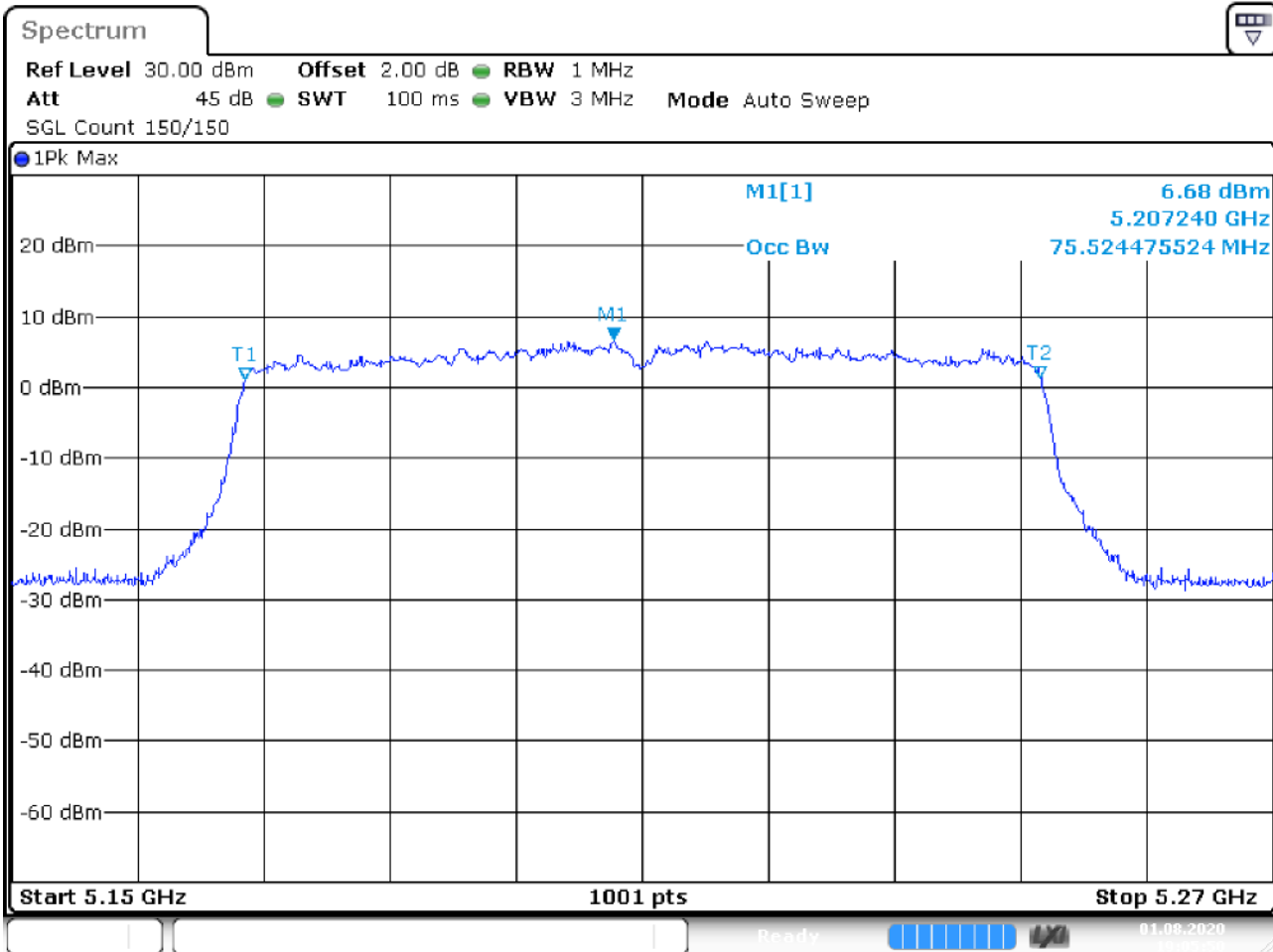


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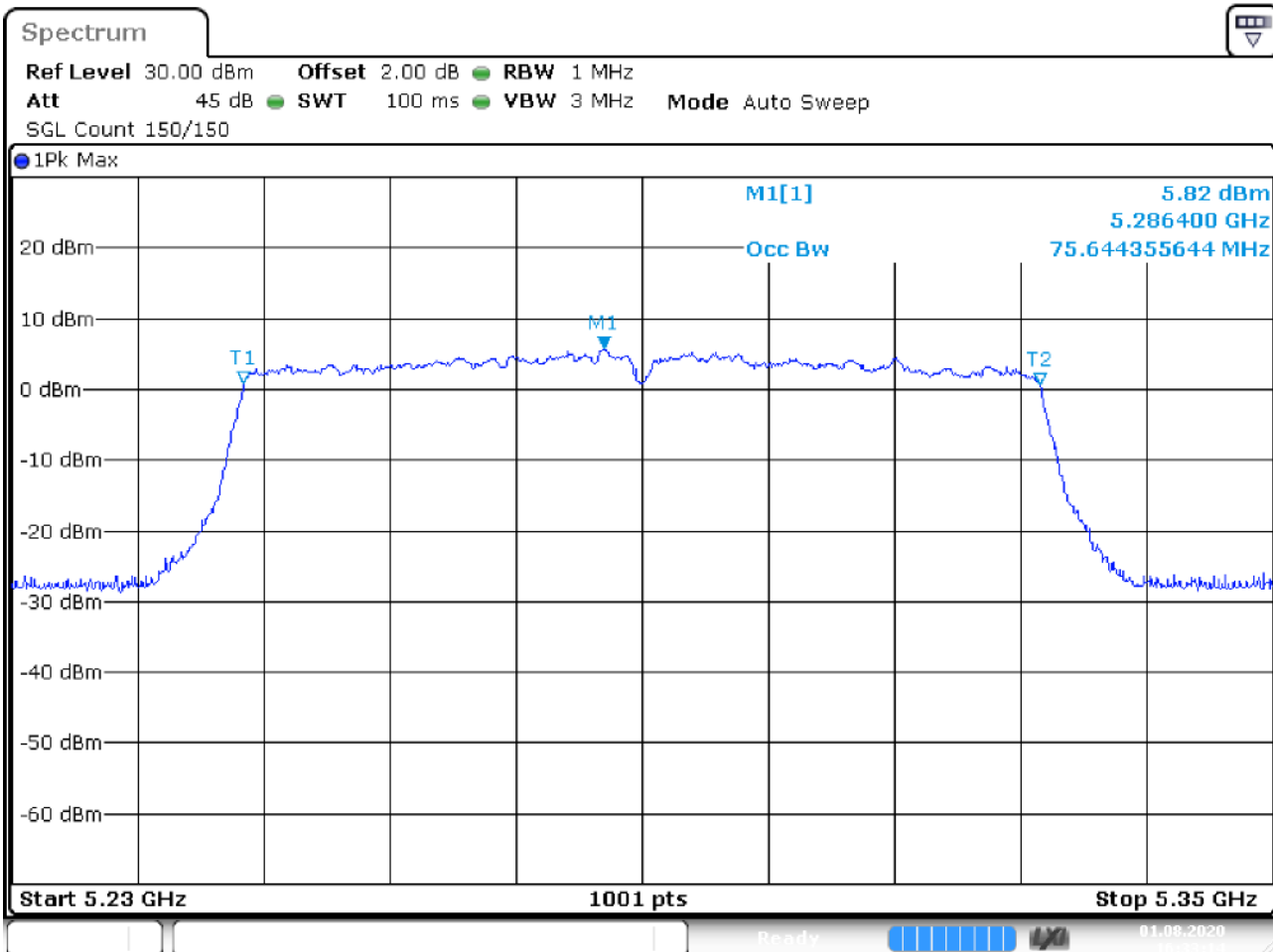
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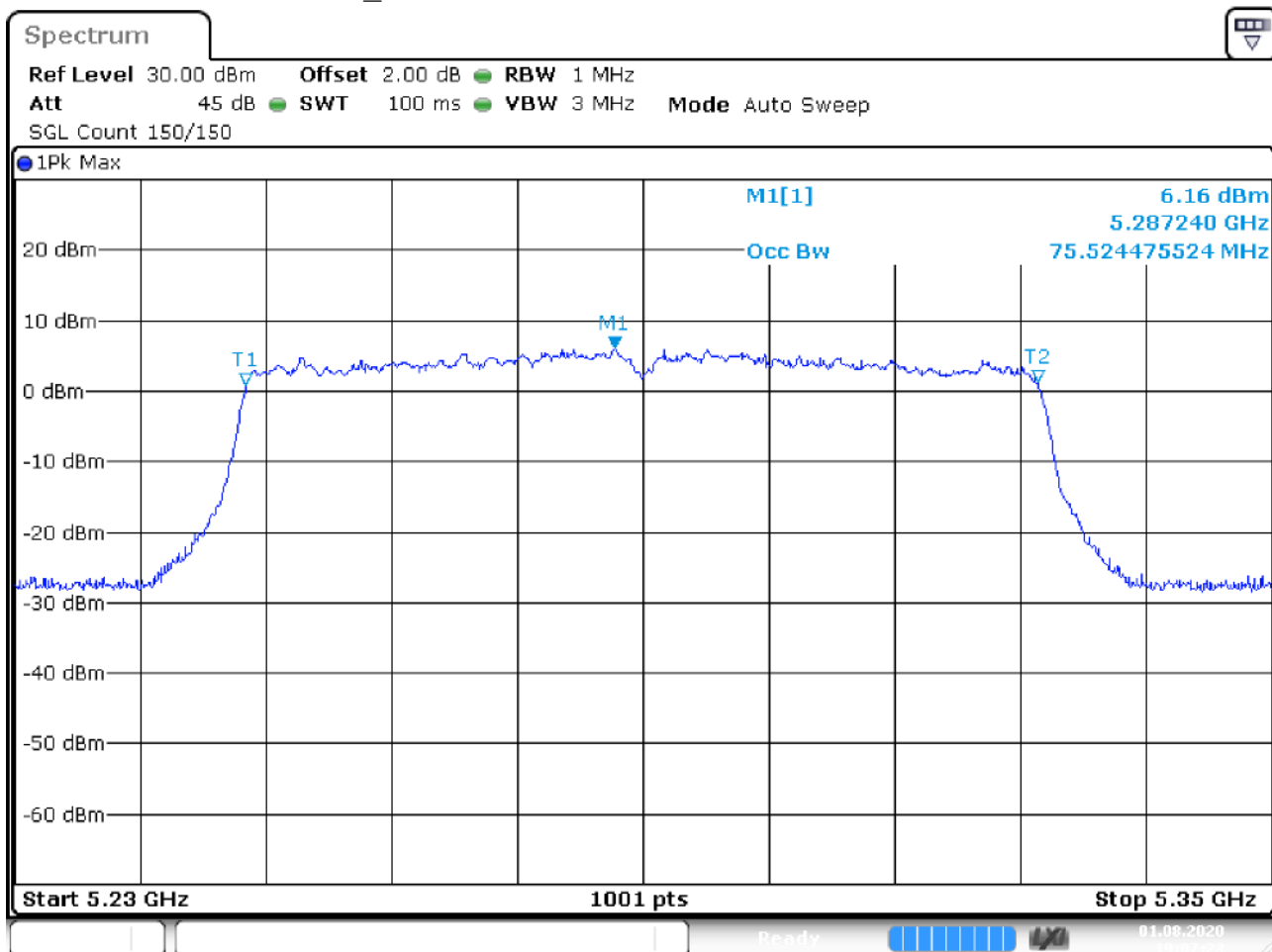
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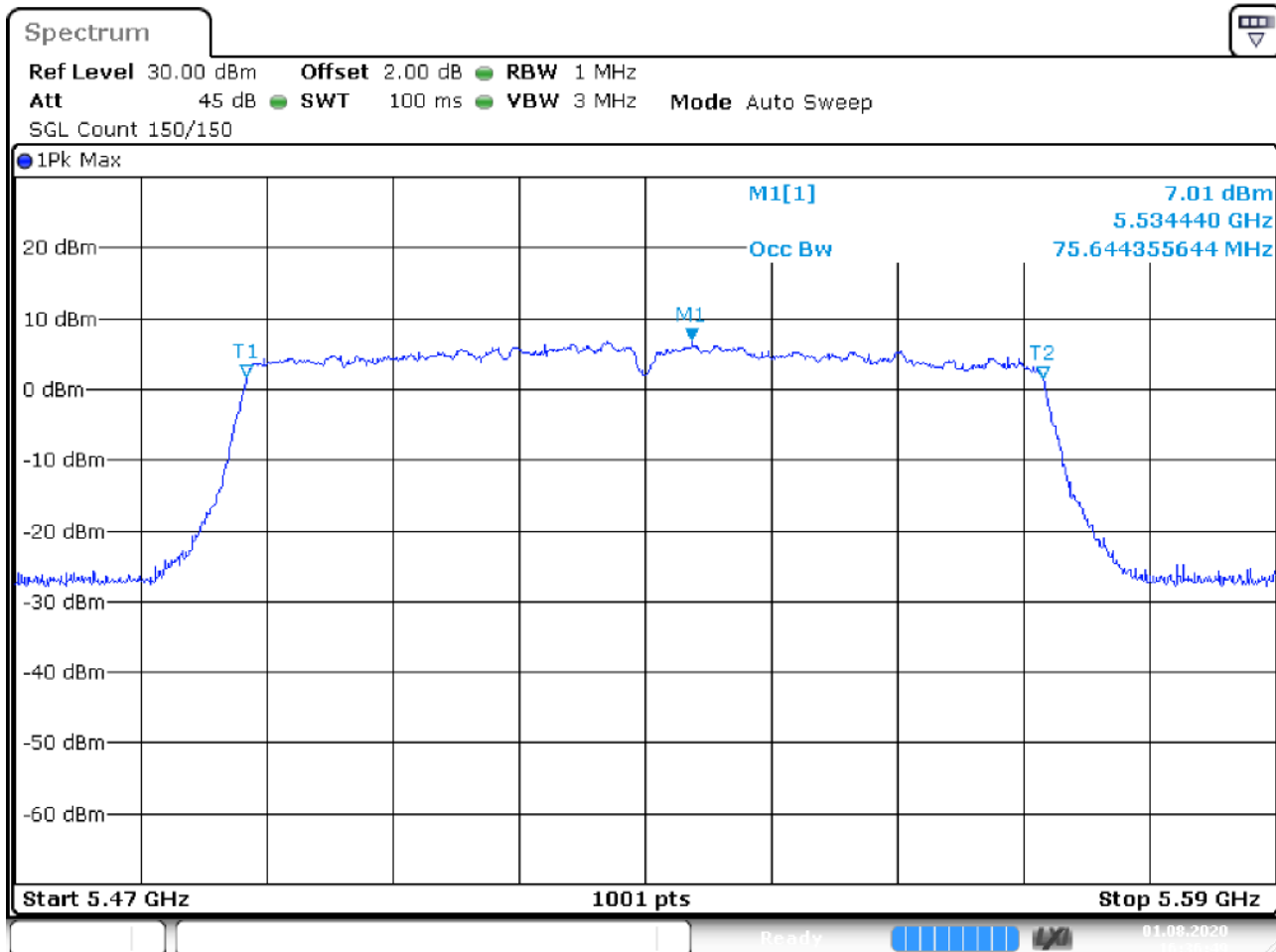
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Date: 1.AUG.2020 19:07:23



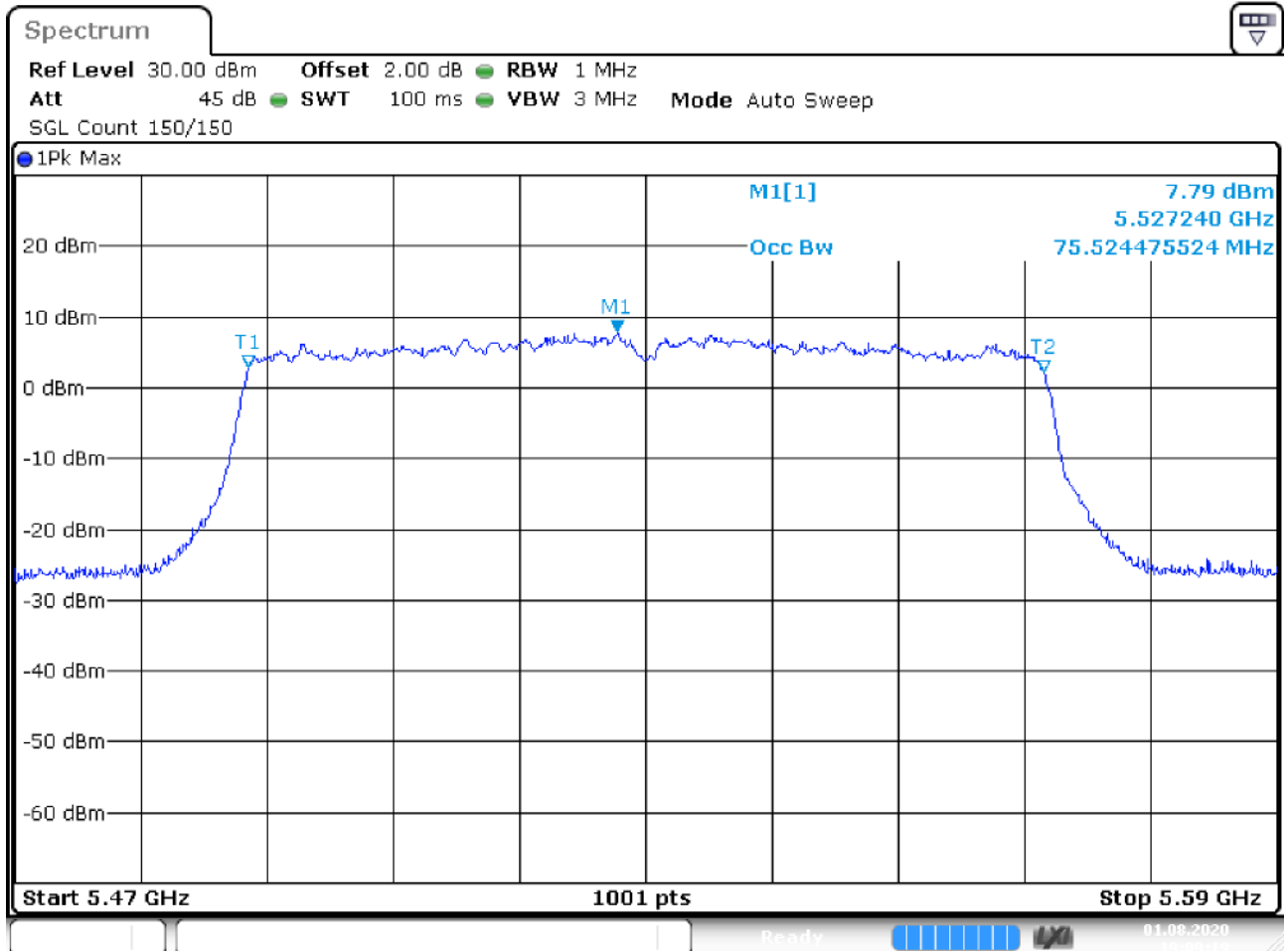
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Date: 1.AUG.2020 16:36:49



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Date: 1.AUG.2020 19:09:19

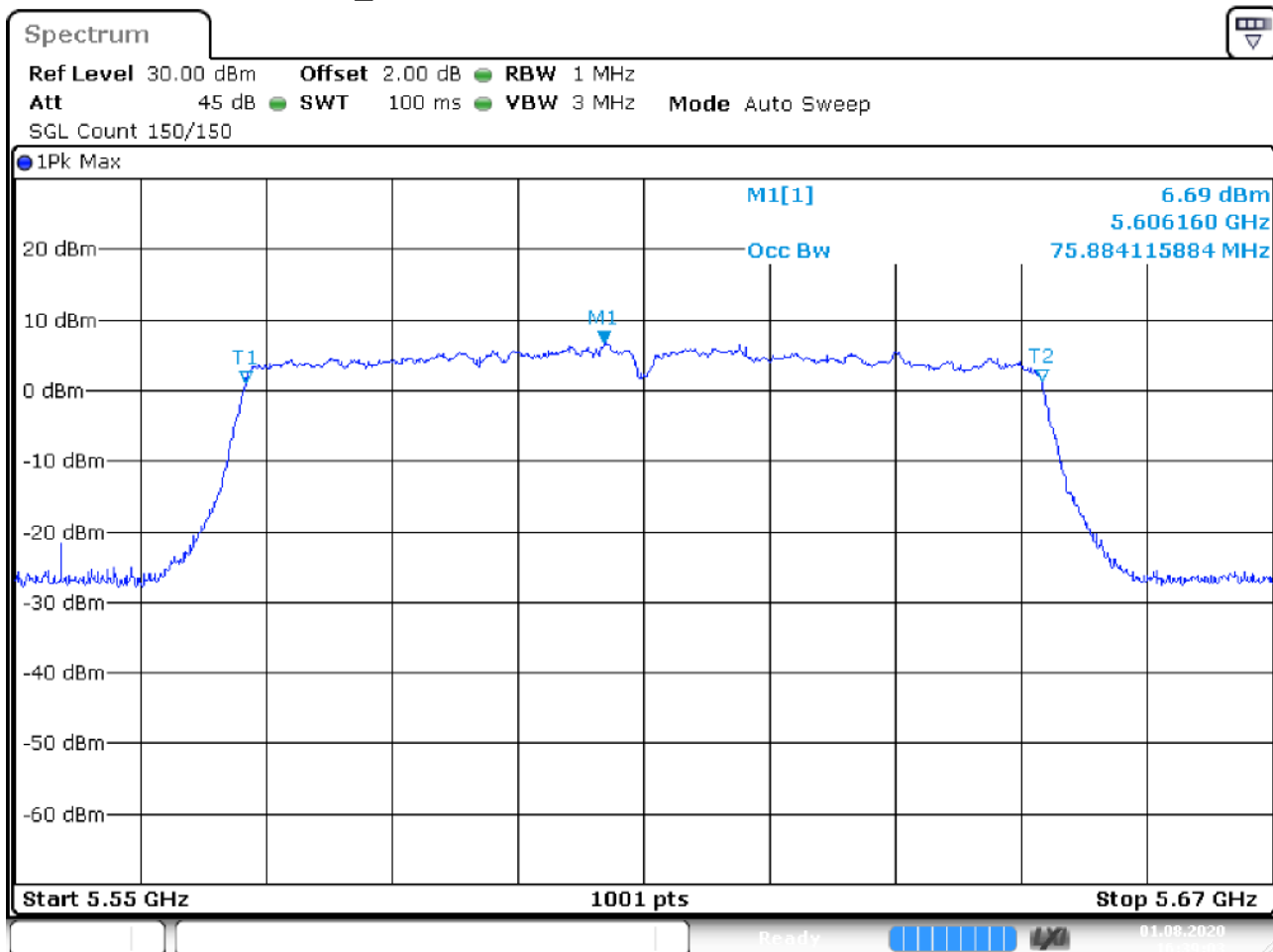


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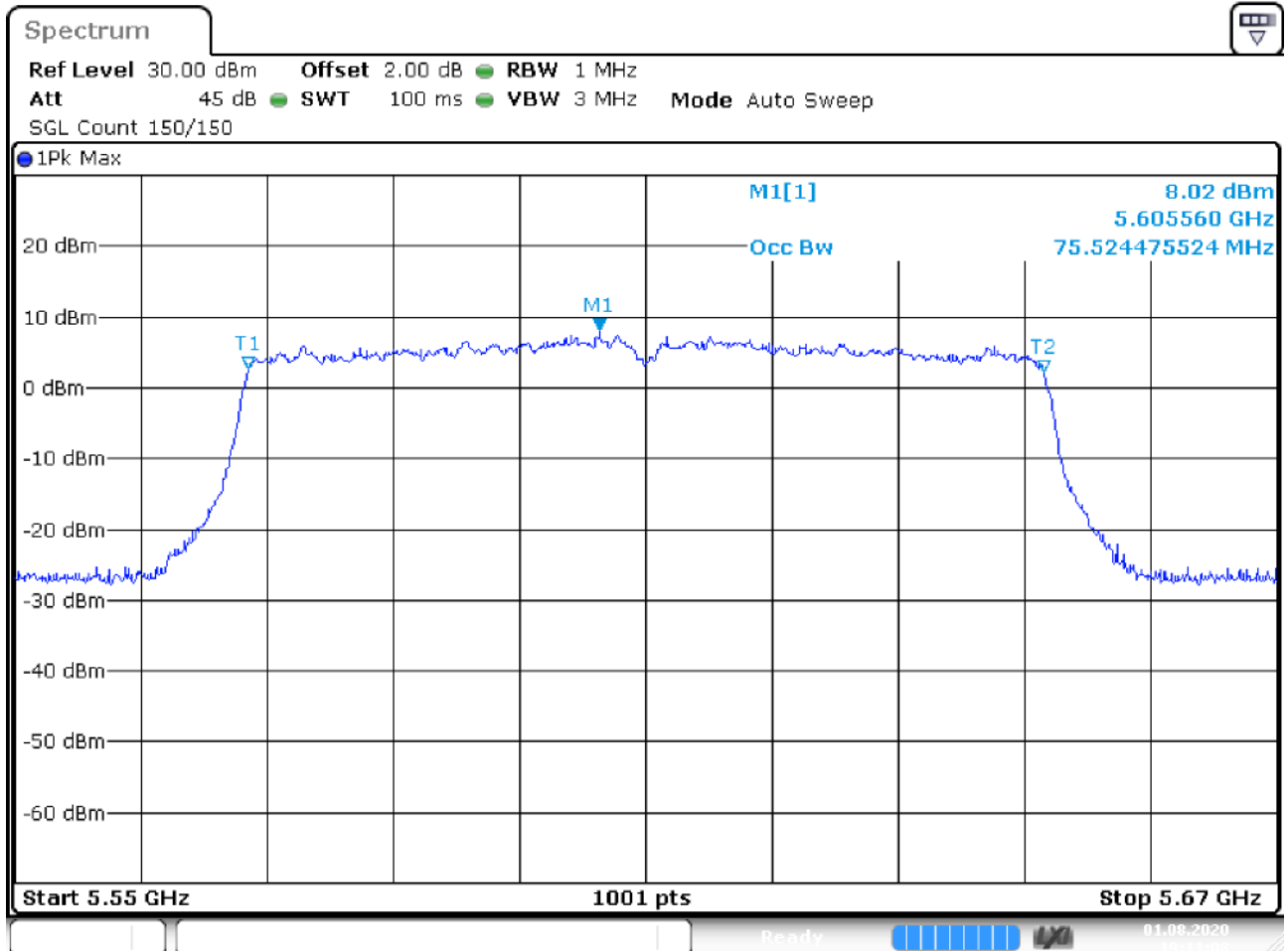
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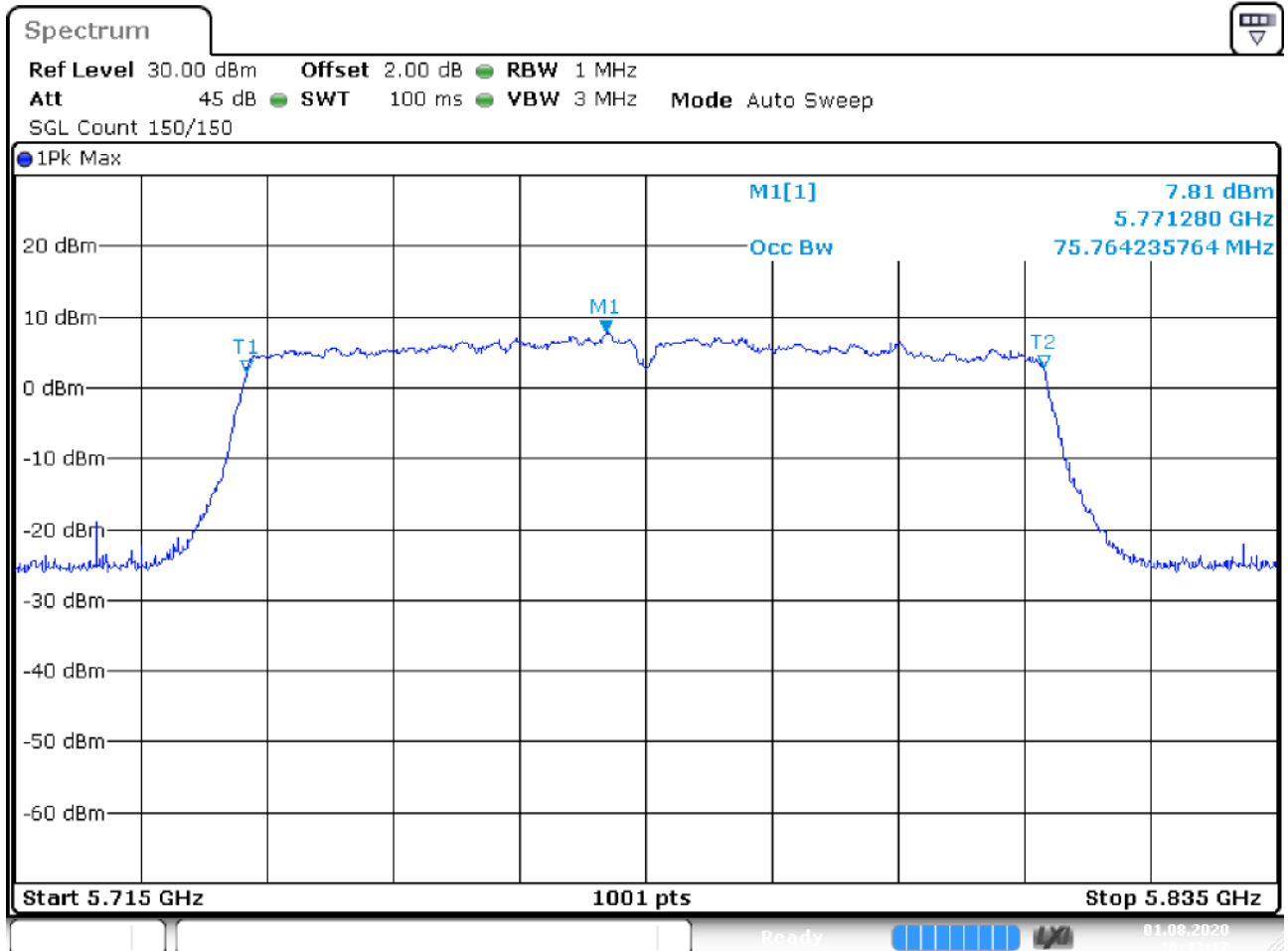
4.7.2.116 11AC80MIMO_122 ANT 2



Date: 1.AUG.2020 19:11:09



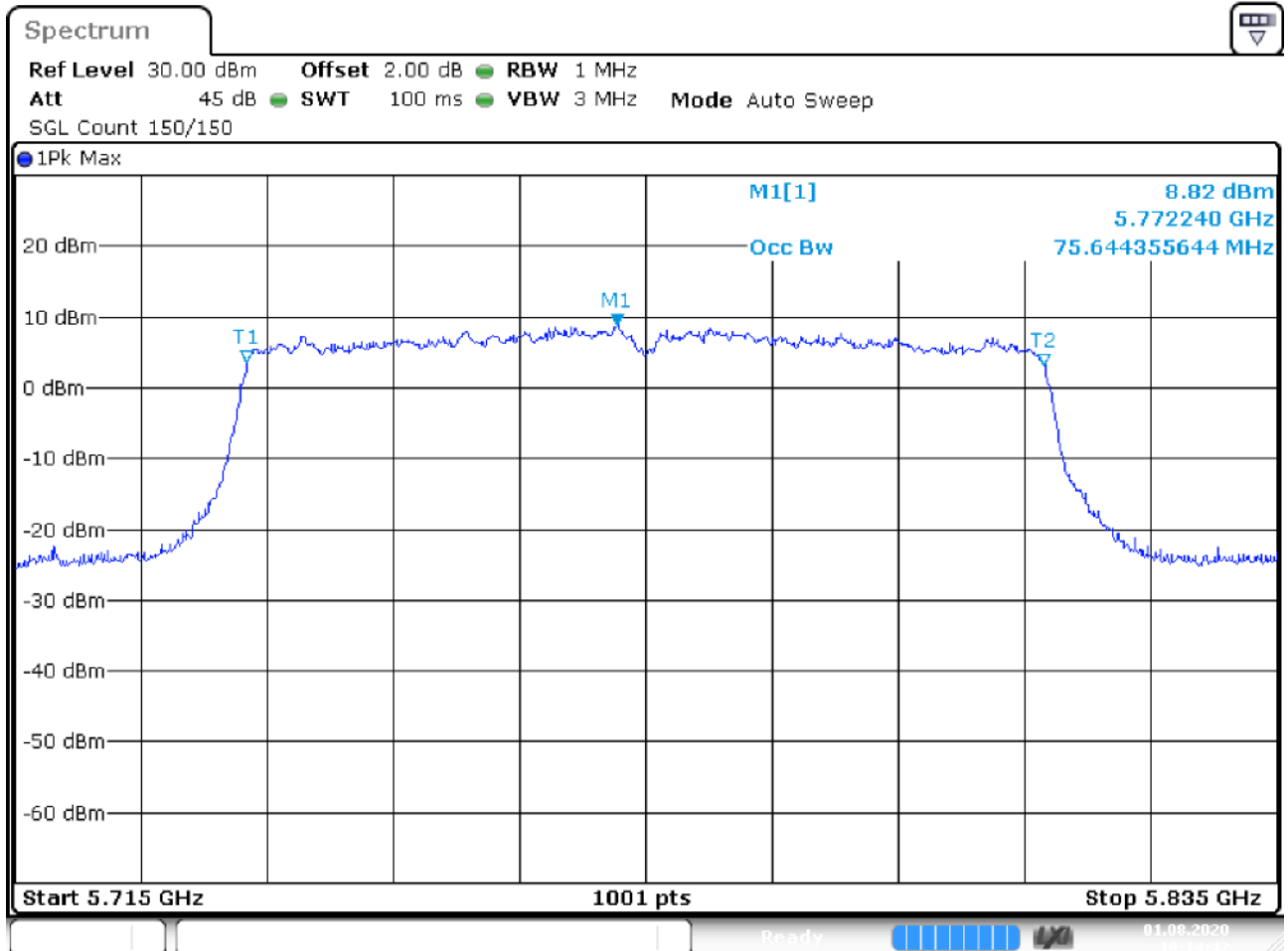
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Date: 1.AUG.2020 16:43:18



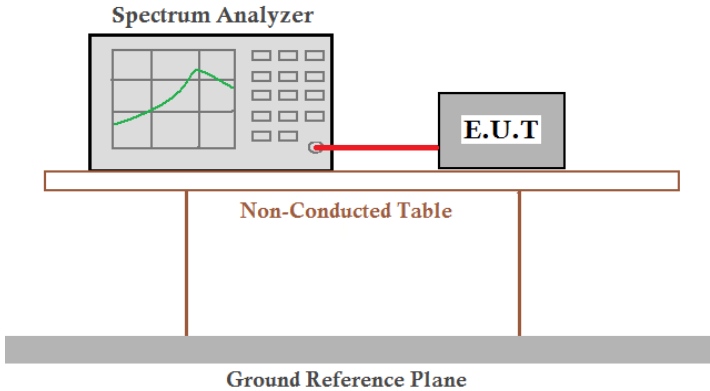
4.7.2.118 11AC80MIMO_155 ANT 2



Date: 1.AUG.2020 19:14:42



4.8 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
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:	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.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	



4.8.1 Test Results For Power Density

Test Mode	Test Channel	Frequency [MHz]	Power Density Level [dBm]			Verdict
			ANT 1	ANT 2	SUM	
11A20 CDD	36	5180	6.22	7.28	9.79	PASS
	44	5220	6.77	7.23	10.02	PASS
	48	5240	6.99	7.21	10.11	PASS
	52	5260	6.81	6.92	9.88	PASS
	60	5300	6.66	6.72	9.70	PASS
	64	5320	6.60	7.23	9.94	PASS
	100	5500	6.01	6.90	9.49	PASS
	116	5580	6.08	6.50	9.31	PASS
	140	5700	6.13	6.45	9.30	PASS
	149	5745	3.63	3.94	6.80	PASS
	157	5785	3.87	3.94	6.92	PASS
	161	5805	4.03	3.74	6.90	PASS
11N20 MIMO	36	5180	5.41	6.5	9.00	PASS
	44	5220	6.06	6.64	9.37	PASS
	48	5240	6.29	6.45	9.38	PASS
	52	5260	6.11	6.28	9.21	PASS
	60	5300	6.03	6.11	9.08	PASS
	64	5320	5.91	6.54	9.25	PASS
	100	5500	5.32	6.21	8.80	PASS
	116	5580	5.34	5.78	8.58	PASS
	140	5700	5.62	5.86	8.75	PASS
	149	5745	2.96	3.25	6.12	PASS
	157	5785	3.24	3.41	6.34	PASS
	161	5805	3.42	3.23	6.34	PASS
11N40 MIMO	38	5190	0.06	1.17	3.66	PASS
	46	5230	0.69	1.25	3.99	PASS
	54	5270	0.56	0.98	3.79	PASS
	62	5310	0.64	0.85	3.76	PASS
	102	5510	2.36	3.40	5.92	PASS
	110	5550	2.51	3.05	5.80	PASS
	134	5670	2.91	2.85	5.89	PASS
	151	5755	0.00	0.10	3.06	PASS
	159	5795	0.08	0.11	3.11	PASS
11AC20 MIMO	36	5180	5.43	6.69	9.12	PASS
	44	5220	6.12	6.85	9.51	PASS
	48	5240	6.34	6.71	9.54	PASS



	52	5260	6.2	6.57	9.40	PASS
	60	5300	6.11	6.34	9.24	PASS
	64	5320	5.94	6.77	9.39	PASS
	100	5500	5.48	6.39	8.97	PASS
	116	5580	5.52	5.95	8.75	PASS
	140	5700	5.63	5.92	8.79	PASS
	149	5745	3.06	3.44	6.26	PASS
	157	5785	3.29	3.56	6.44	PASS
	161	5805	3.47	3.34	6.42	PASS
11AC40 MIMO	38	5190	0.16	1.45	3.86	PASS
	46	5230	0.87	1.54	4.23	PASS
	54	5270	0.69	1.23	3.98	PASS
	62	5310	0.85	1.18	4.03	PASS
	102	5510	2.64	3.53	6.12	PASS
	110	5550	2.93	3.33	6.14	PASS
	134	5670	2.79	3.17	5.99	PASS
	151	5755	0.36	0.56	3.47	PASS
	159	5795	0.31	0.45	3.39	PASS
11AC80 MIMO	42	5210	-3.41	-2.46	0.10	PASS
	58	5290	-3.22	-2.88	-0.04	PASS
	106	5530	-2.01	-1.24	1.40	PASS
	122	5610	-2.24	-1.51	1.15	PASS
	155	5775	-4.00	-3.11	-0.52	PASS

Remark: The testing follows # Method SA-2 # according to FCC KDB 789033 D02 General UNII Test

Procedures New Rules v02r01.Section F) Maximum power spectral density.

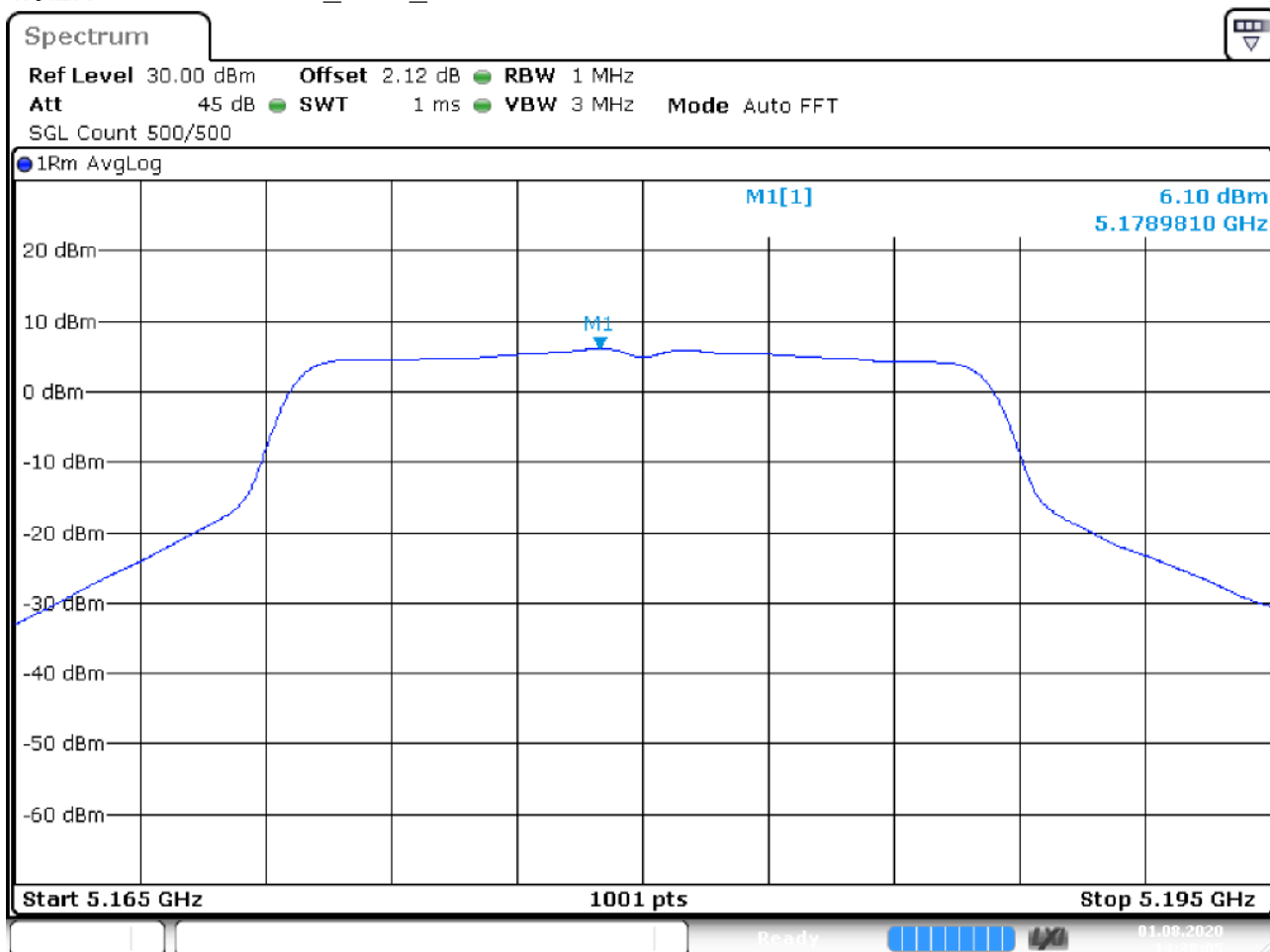
Average Power Density (dB) = Measured value+ Duty Factor.



4.8.2 Test plots For Power Density

11A20_CDD_36 ANT 1

4.8.2.1



Date: 1.AUG.2020 14:38:06

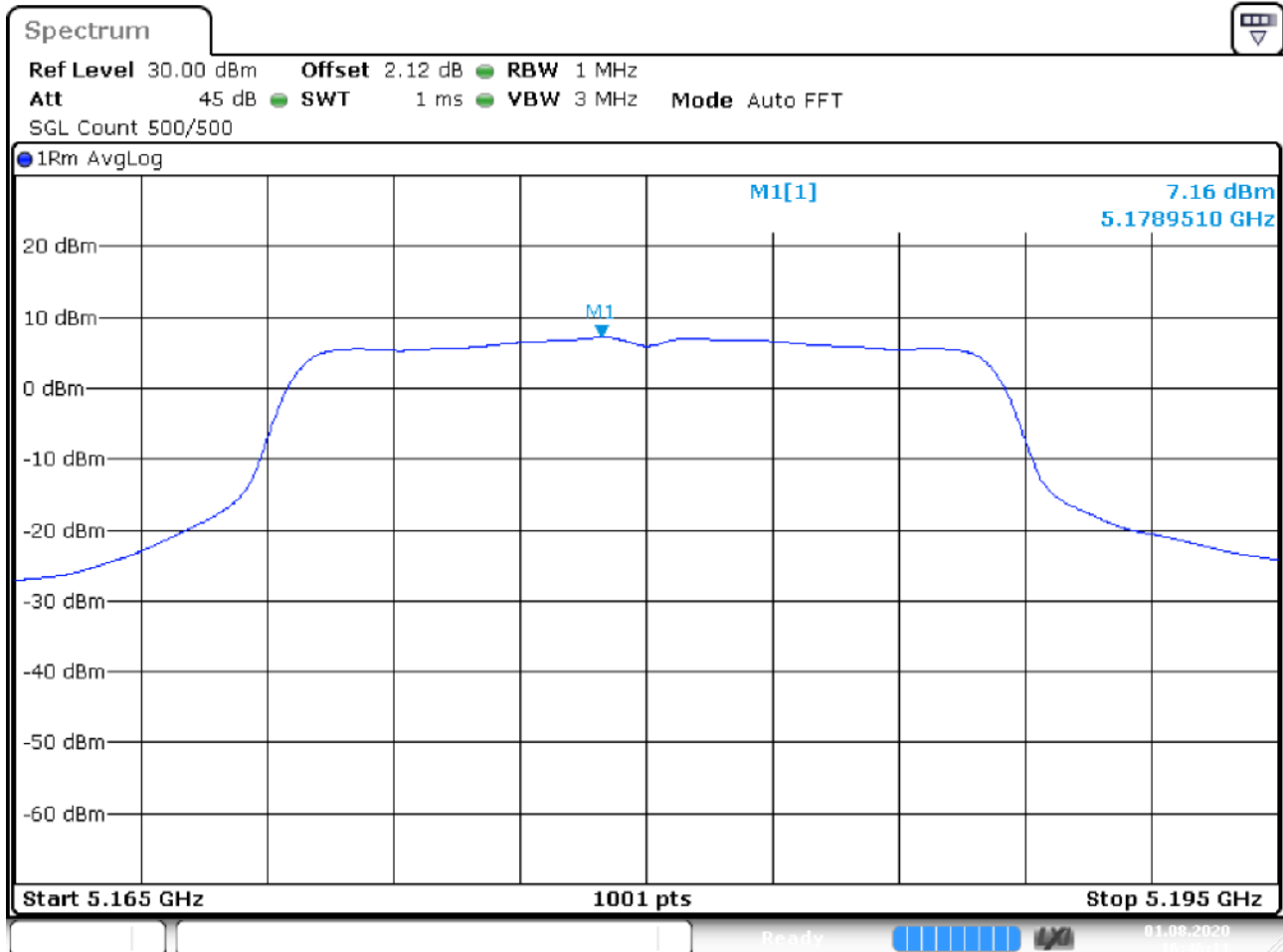


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4.8.2.2 11A20_CDD_36 ANT 2



Date: 1.AUG.2020 16:46:11

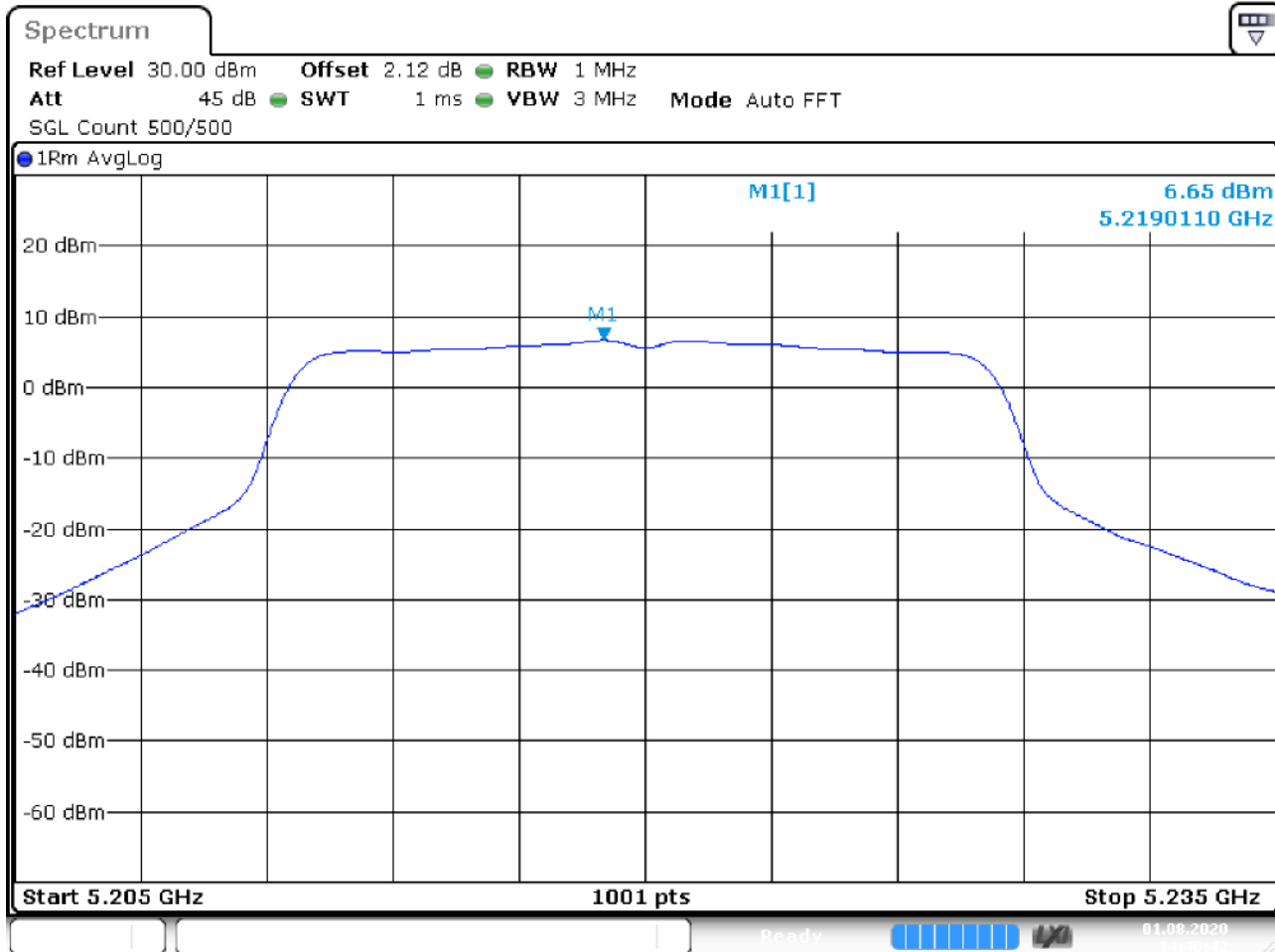


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4.8.2.3 11A20_CDD_44 ANT 1



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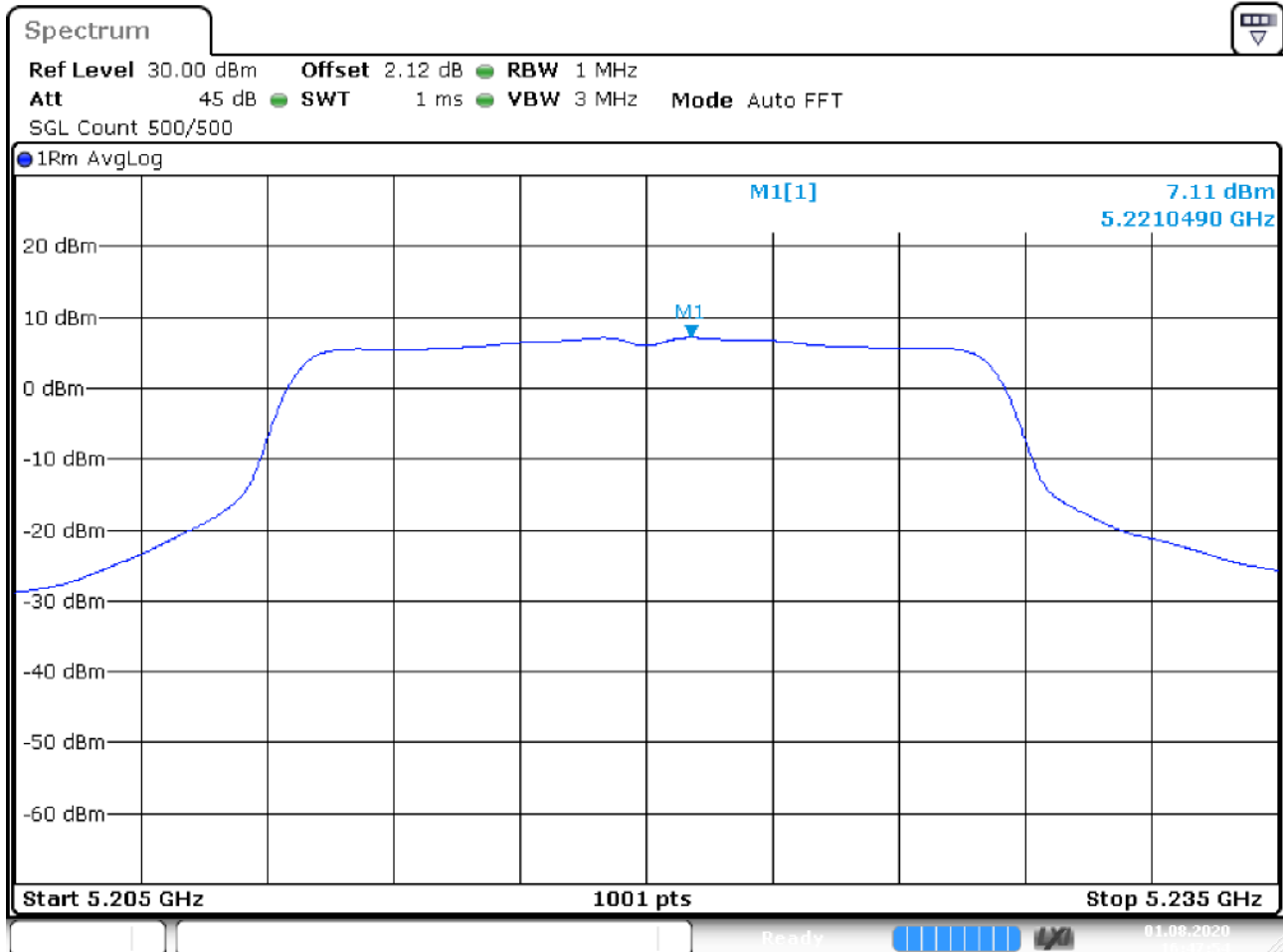


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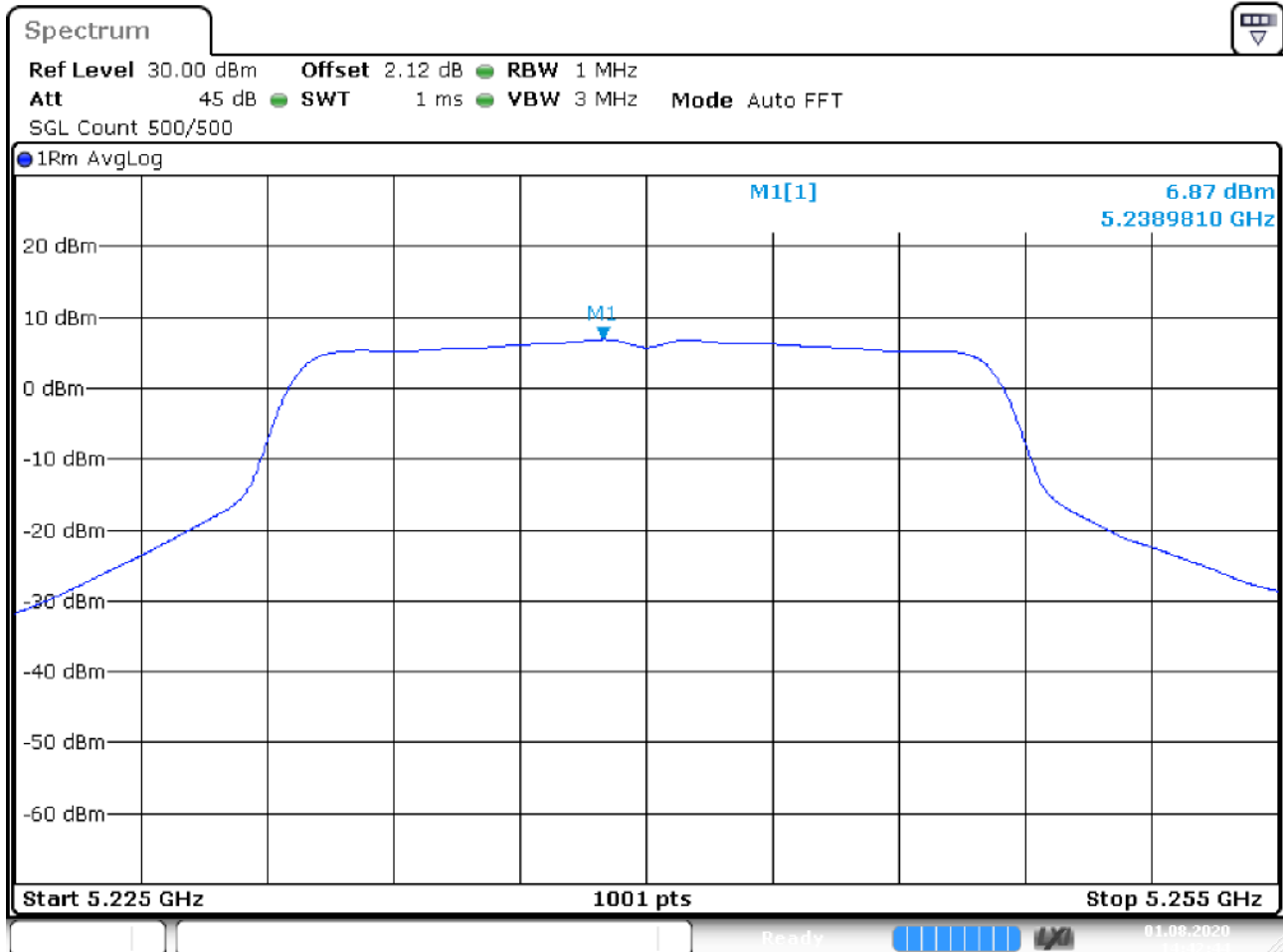
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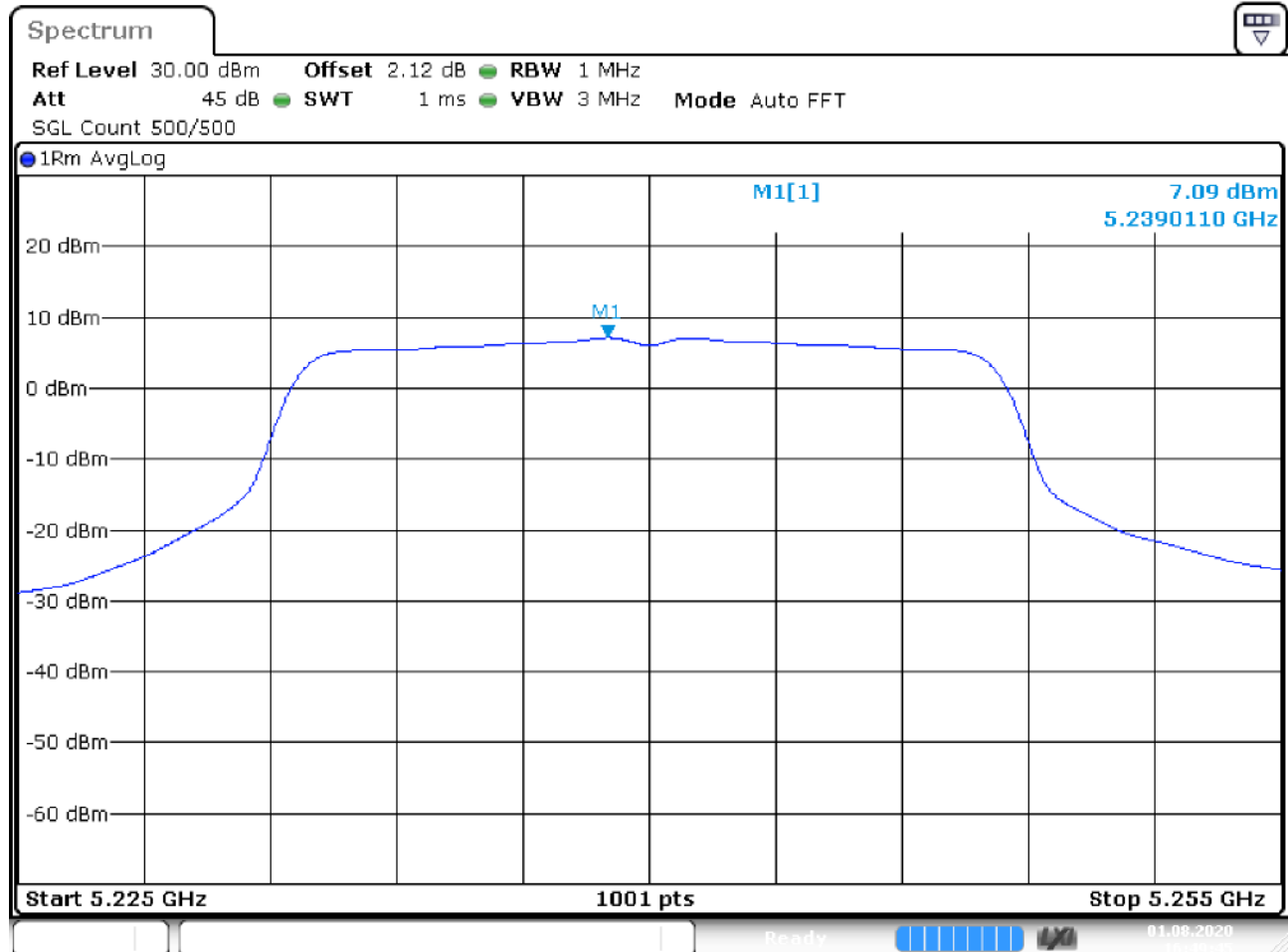
4.8.2.5 11A20_CDD_48 ANT 1



Date: 1.AUG.2020 14:42:45



4.8.2.6 11A20_CDD_48 ANT 2



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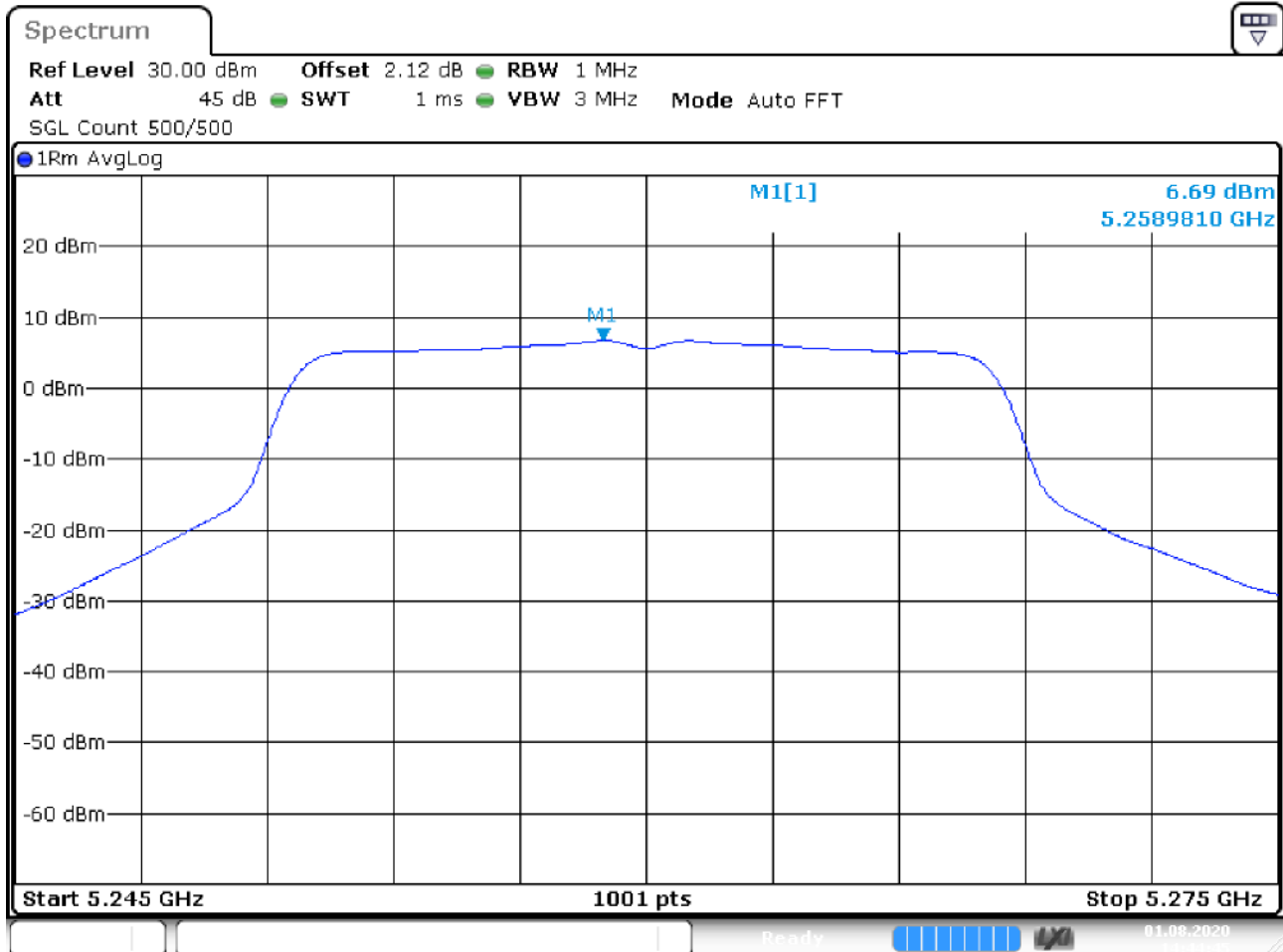


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4.8.2.7 11A20_CDD_52 ANT 1



Date: 1.AUG.2020 14:44:46

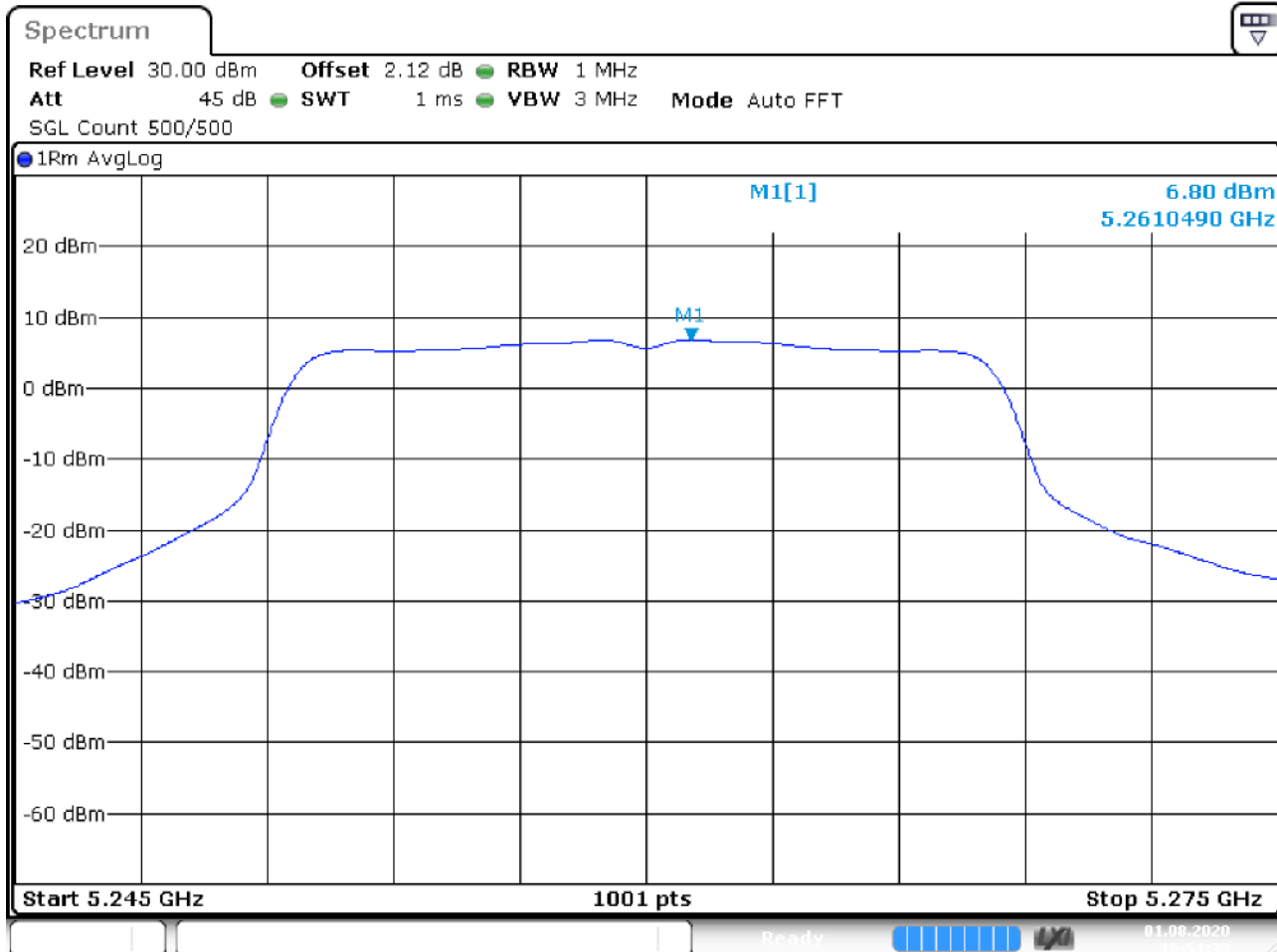


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4.8.2.8 11A20_CDD_52 ANT 2



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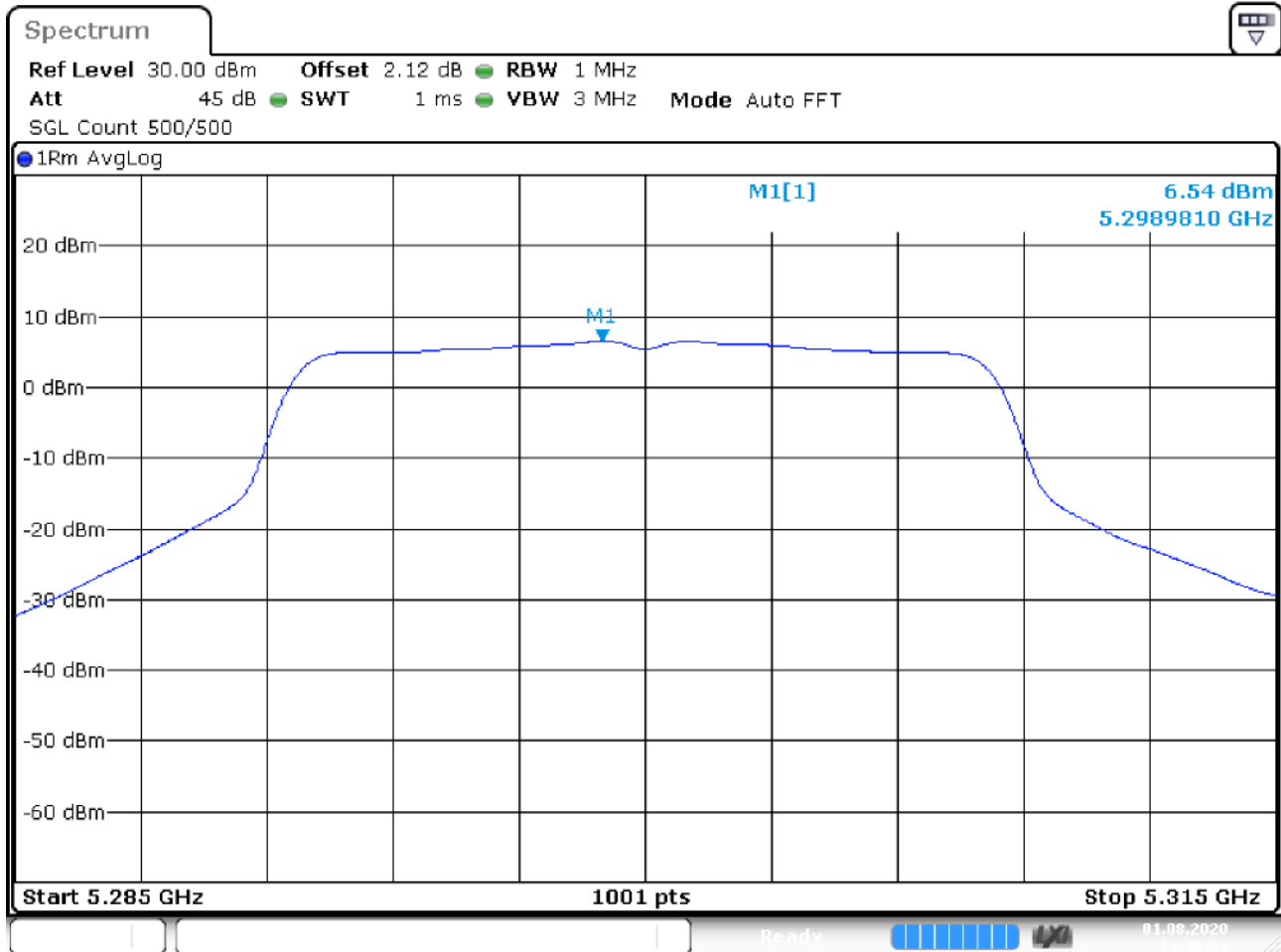


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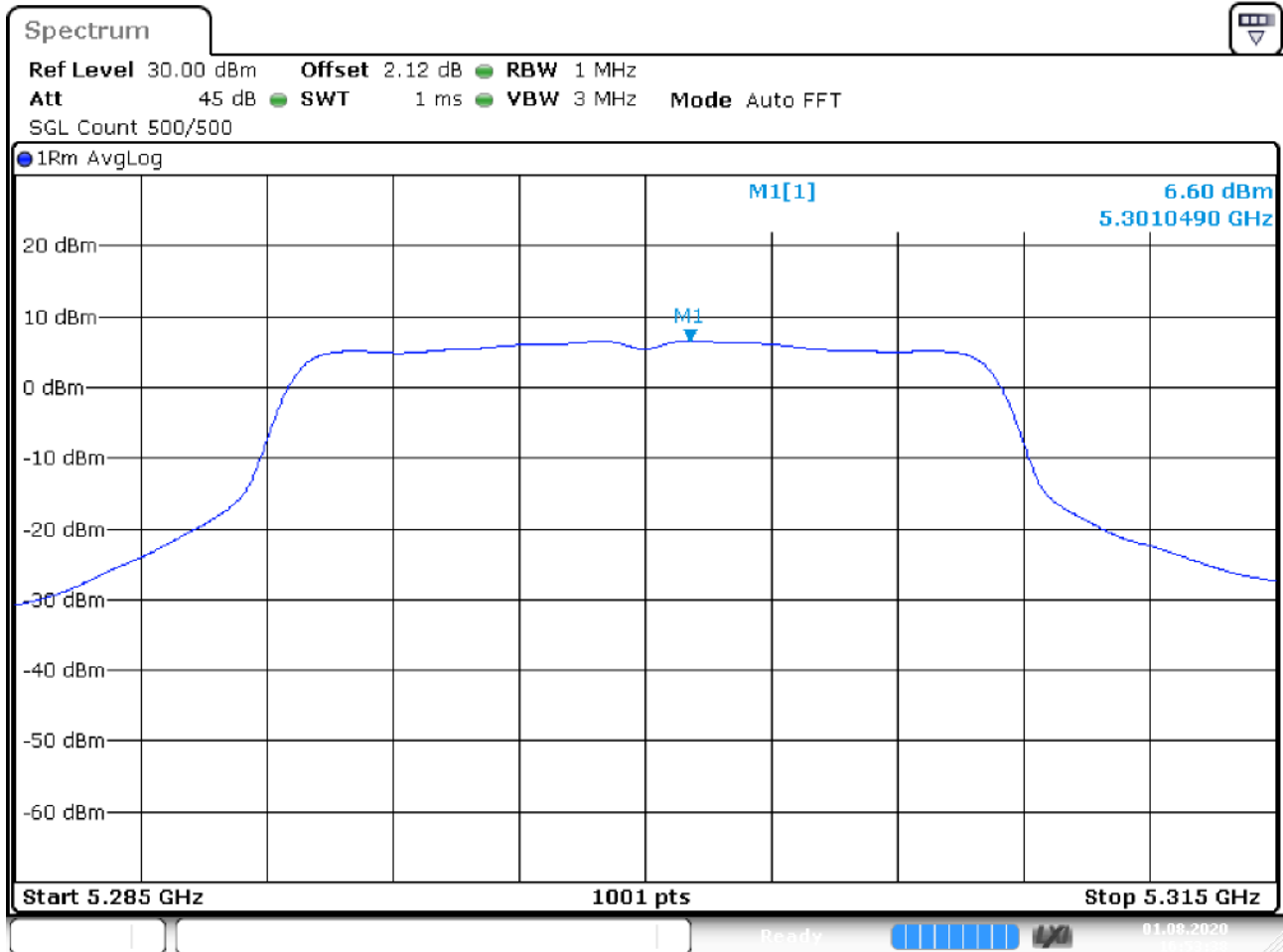
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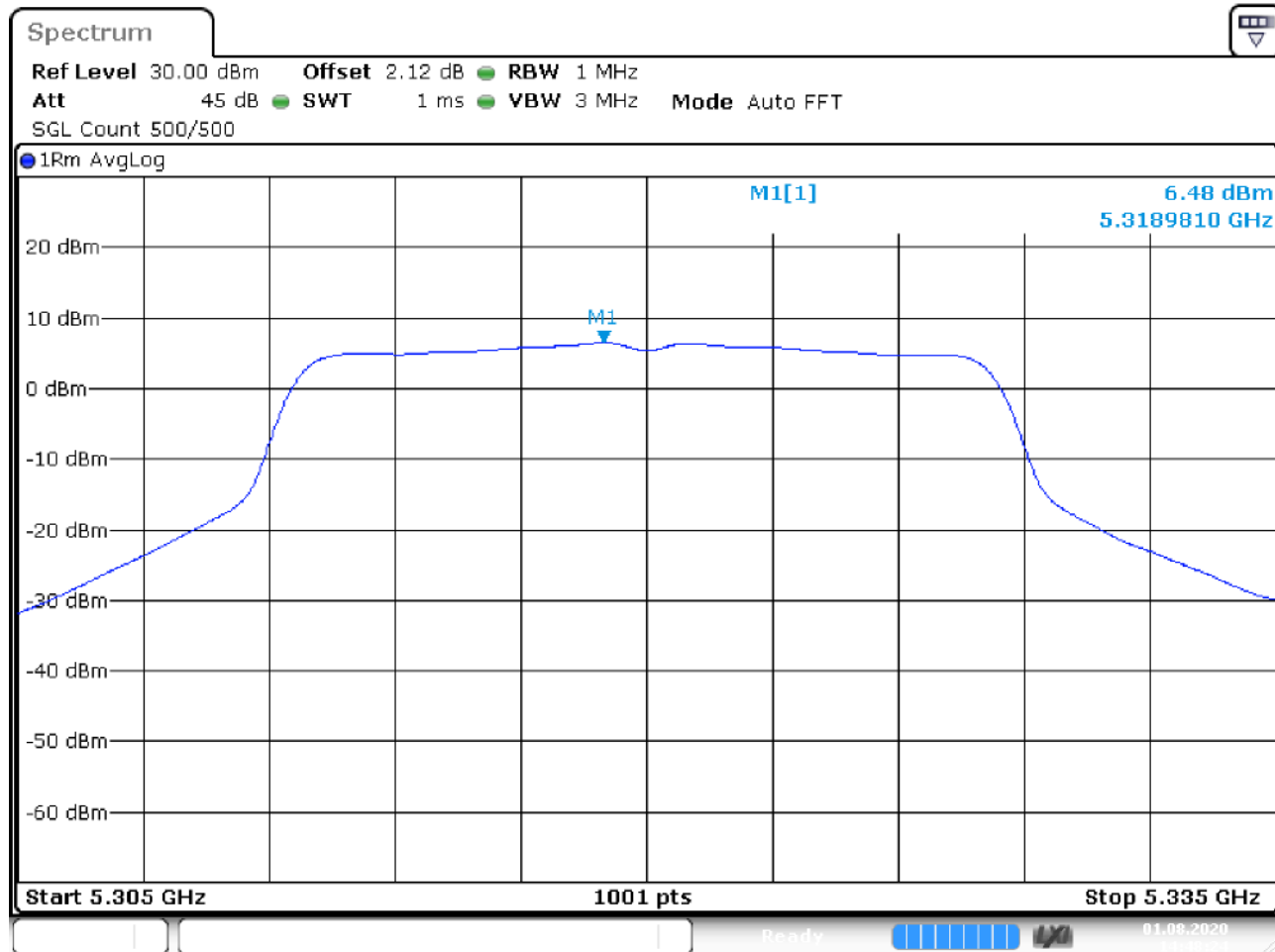
4.8.2.10 11A20_CDD_60 ANT 2



Date: 1.AUG.2020 16:53:38



4.8.2.11 11A20_CDD_64 ANT 1



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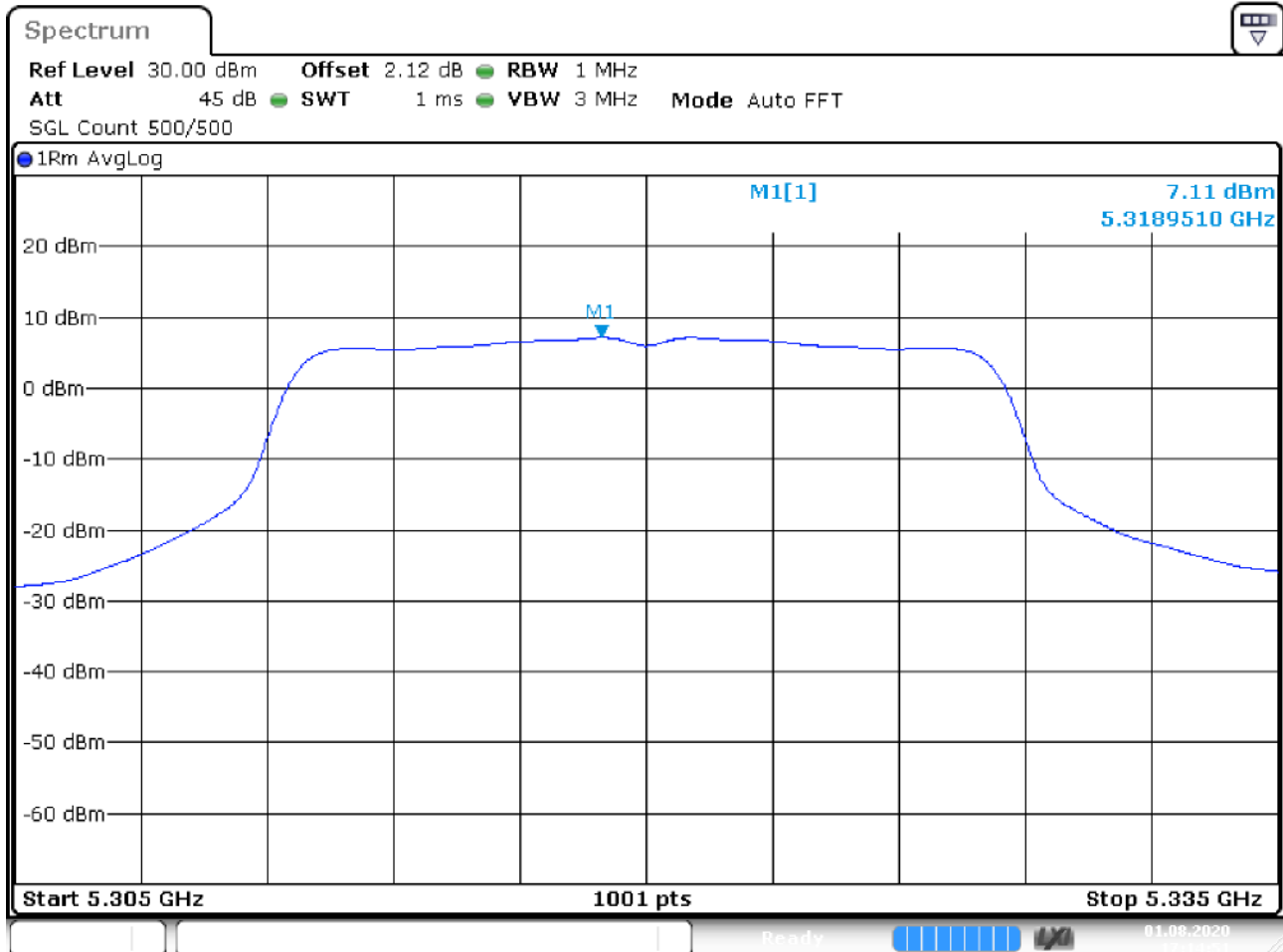


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4.8.2.12 11A20_CDD_64 ANT 2



Date: 1.AUG.2020 17:14:50

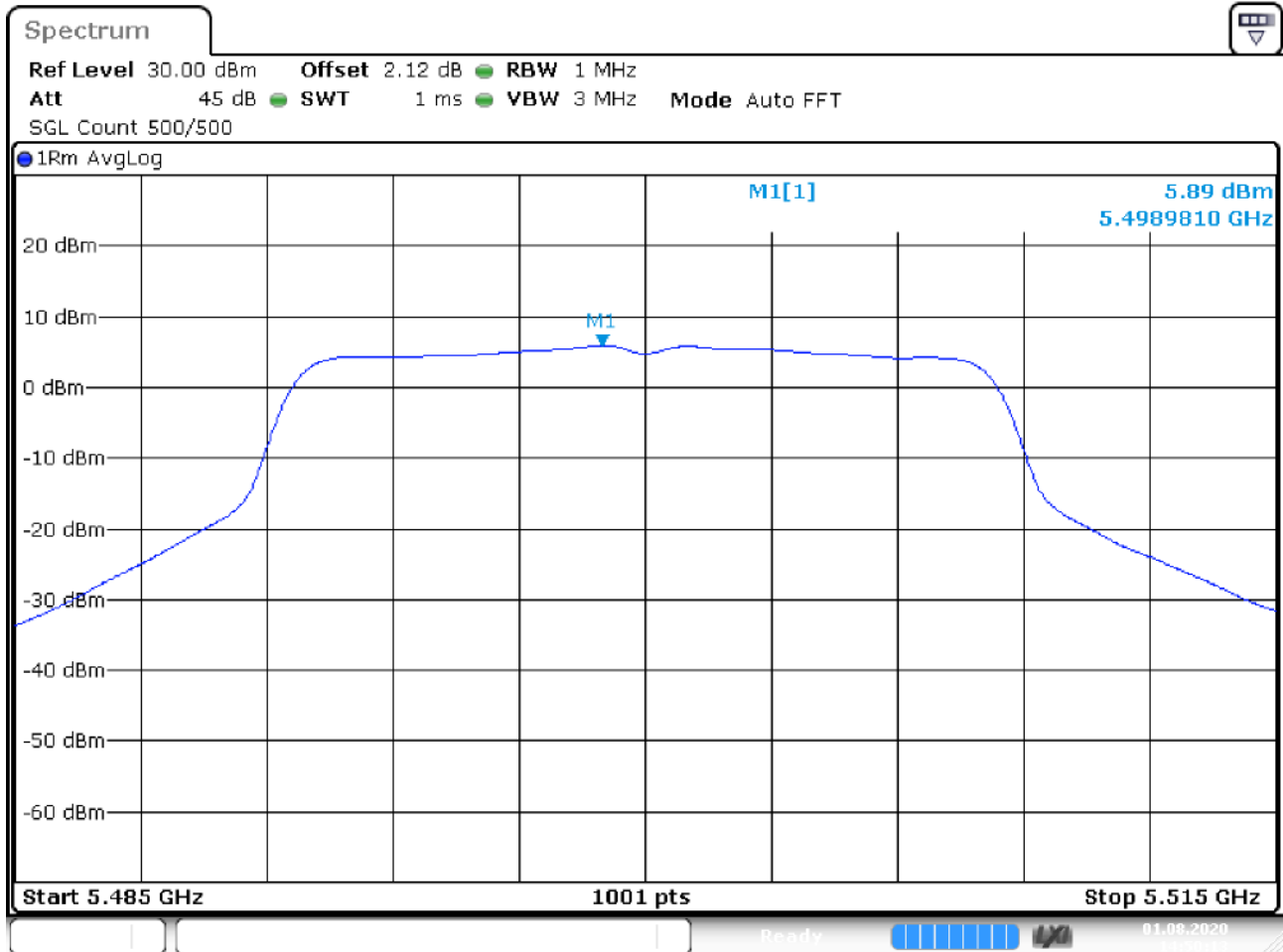


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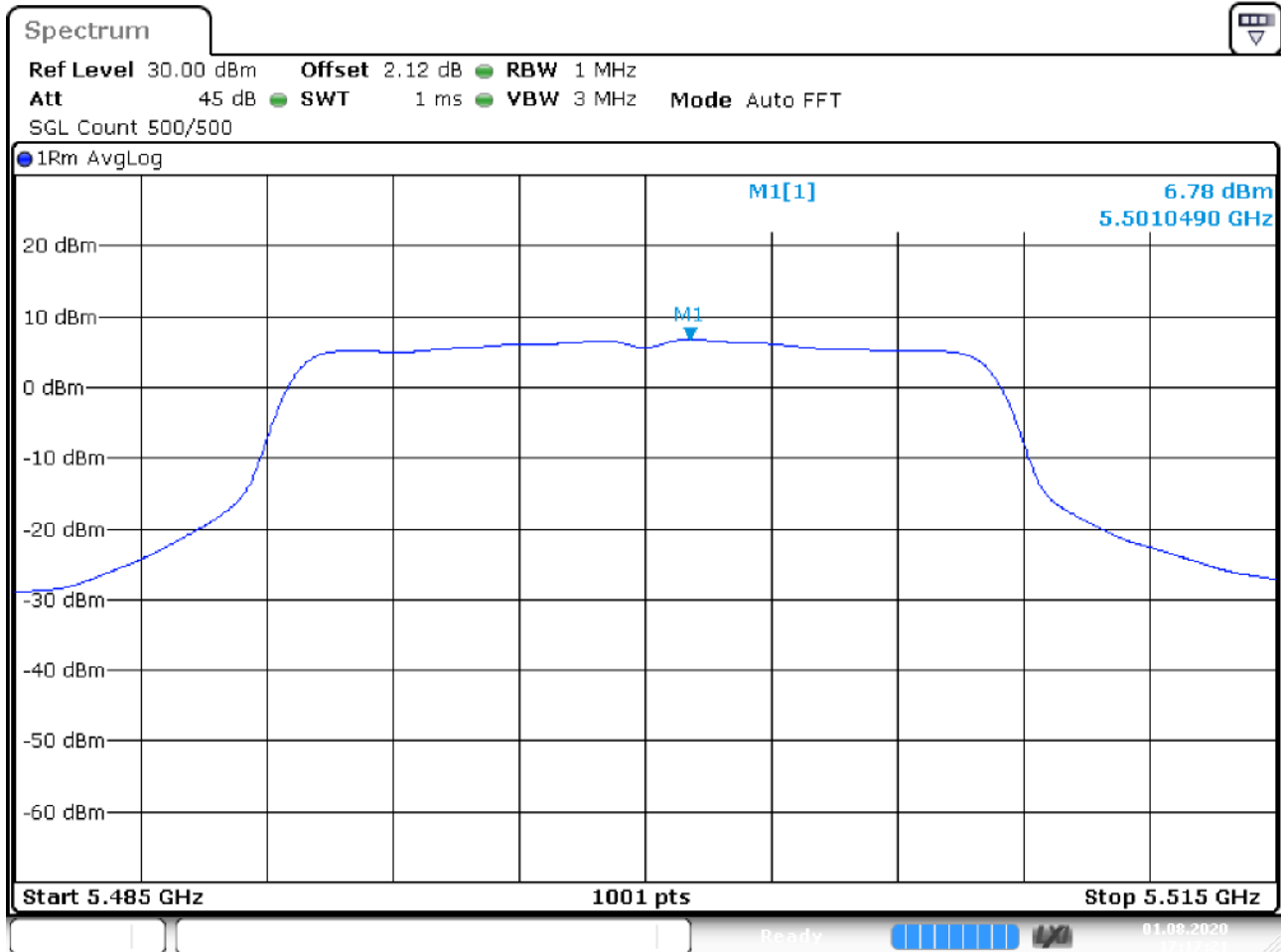


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4.8.2.14 11A20_CDD_100 ANT 2



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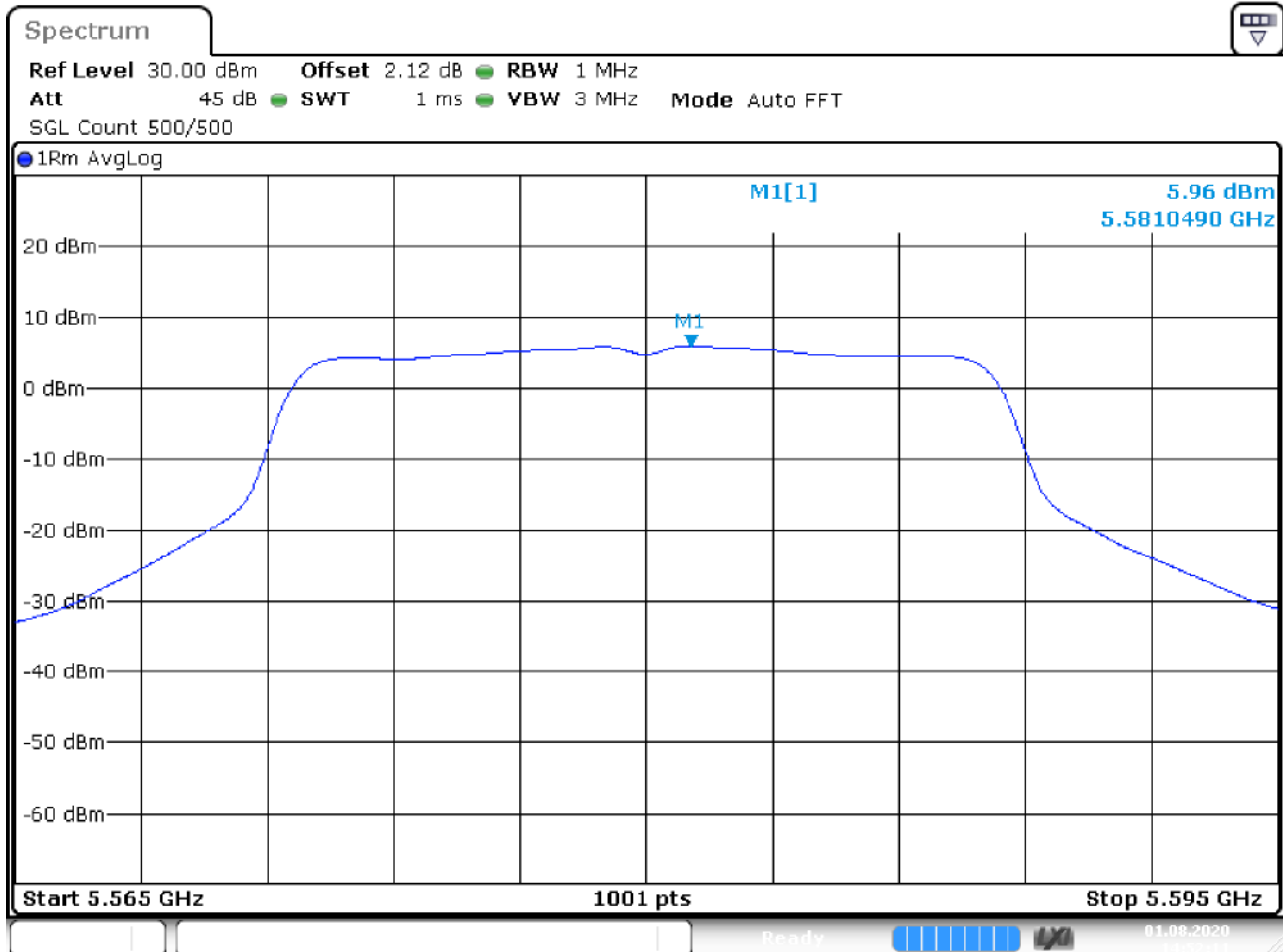


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4.8.2.15 11A20_CDD_116 ANT 1



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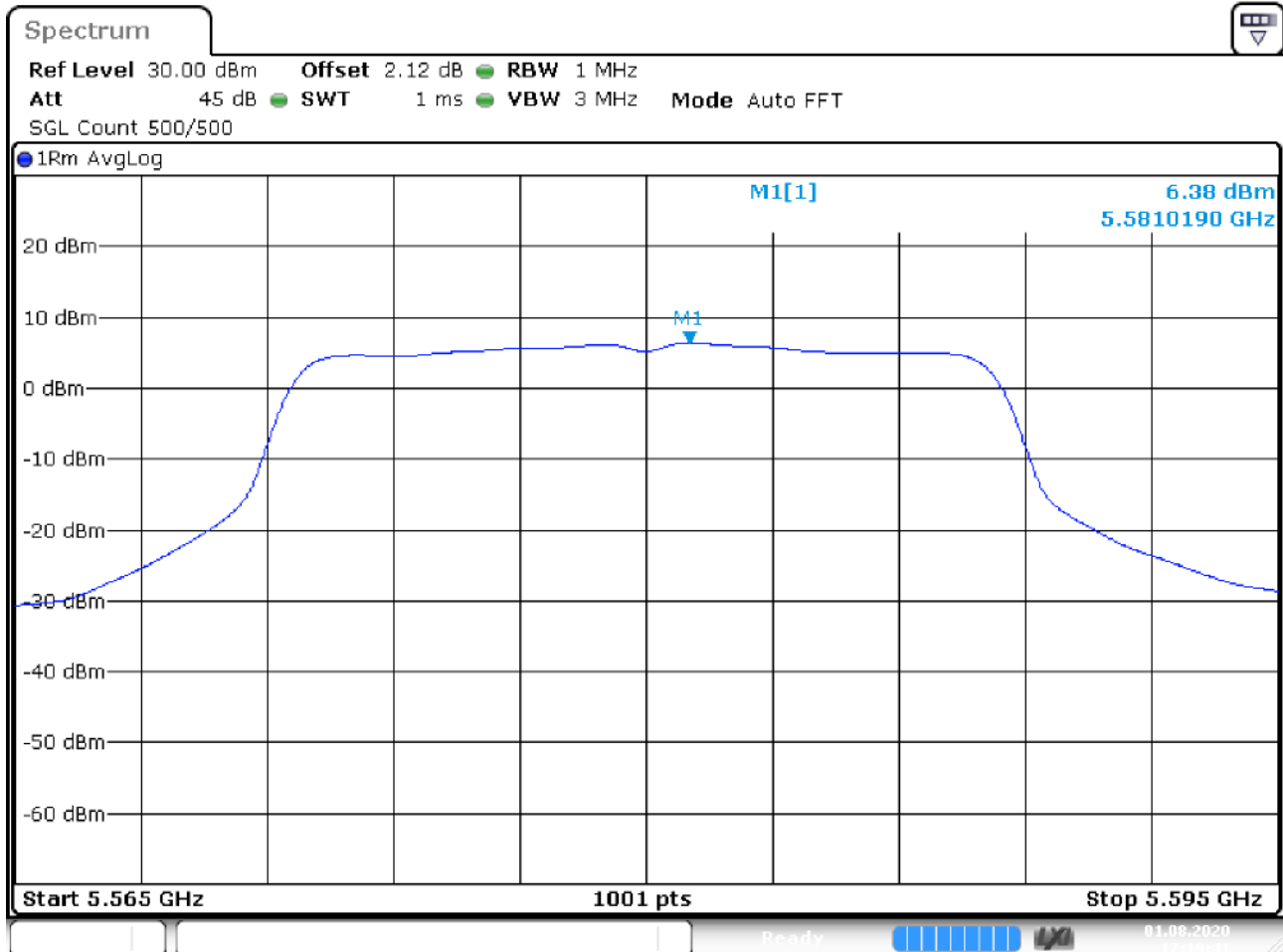


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4.8.2.16 11A20_CDD_116 ANT 2



Date: 1.AUG.2020 17:19:40

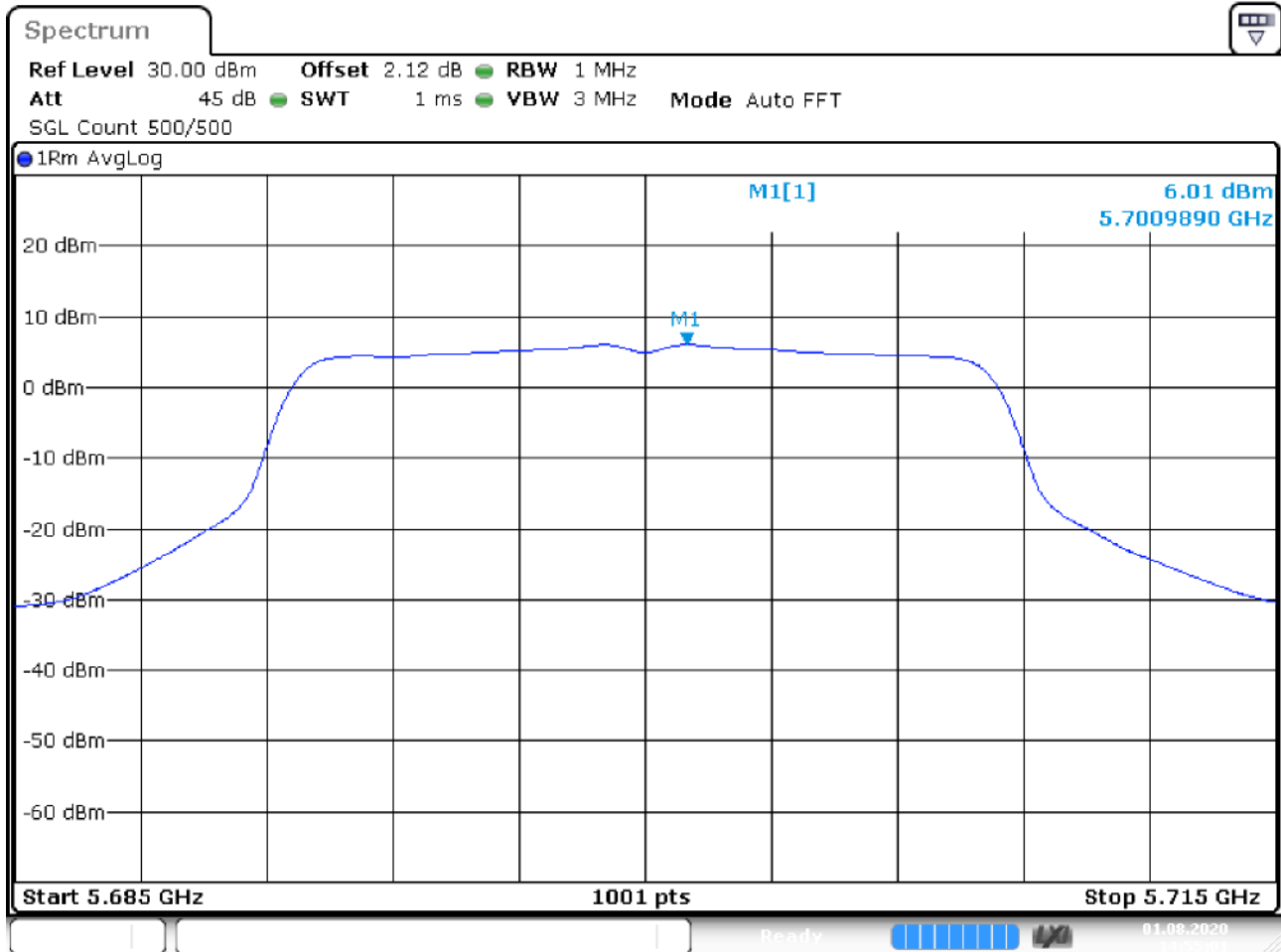


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4.8.2.17 11A20_CDD_140 ANT 1



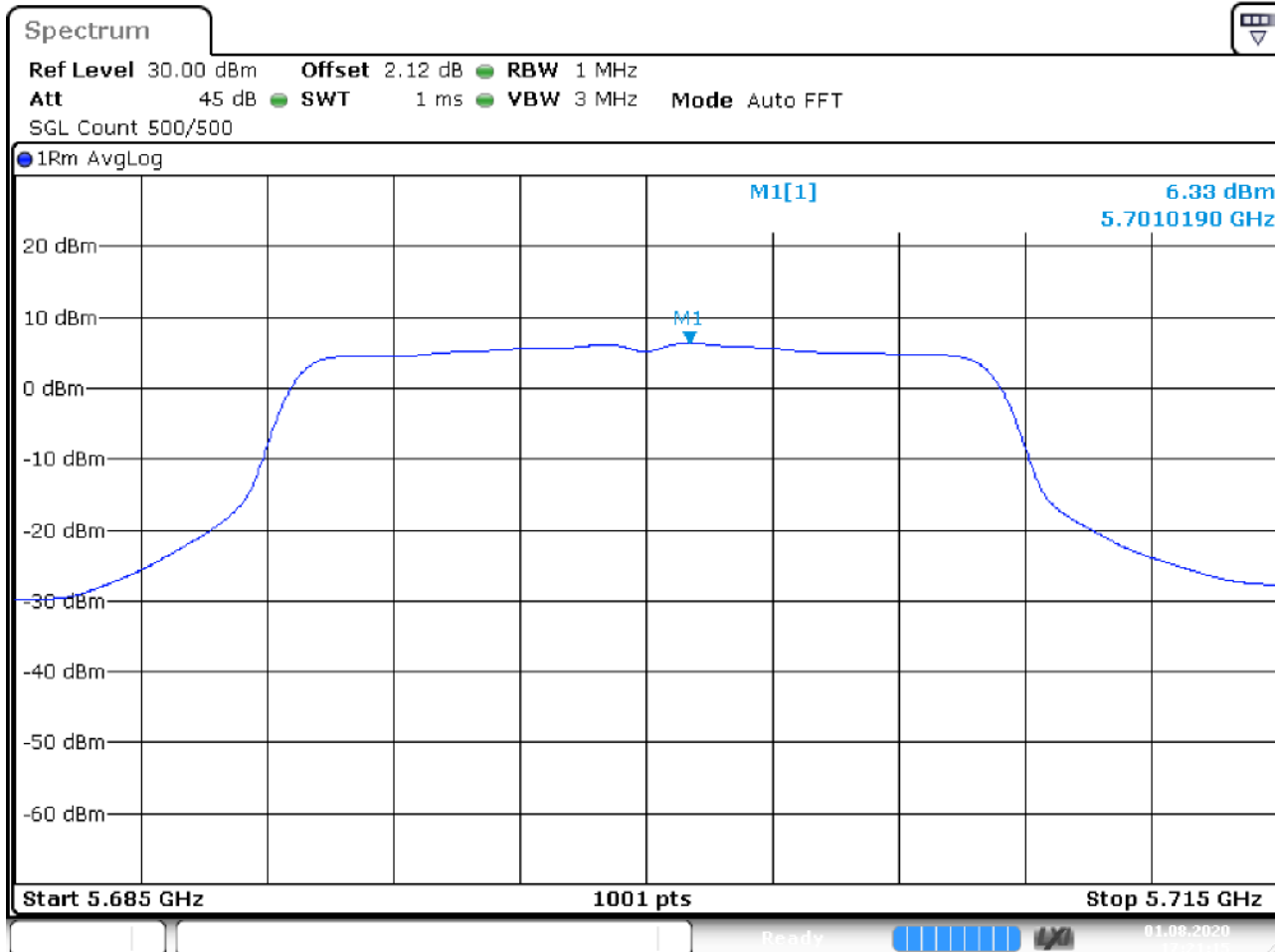
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4.8.2.18 11A20_CDD_140 ANT 2



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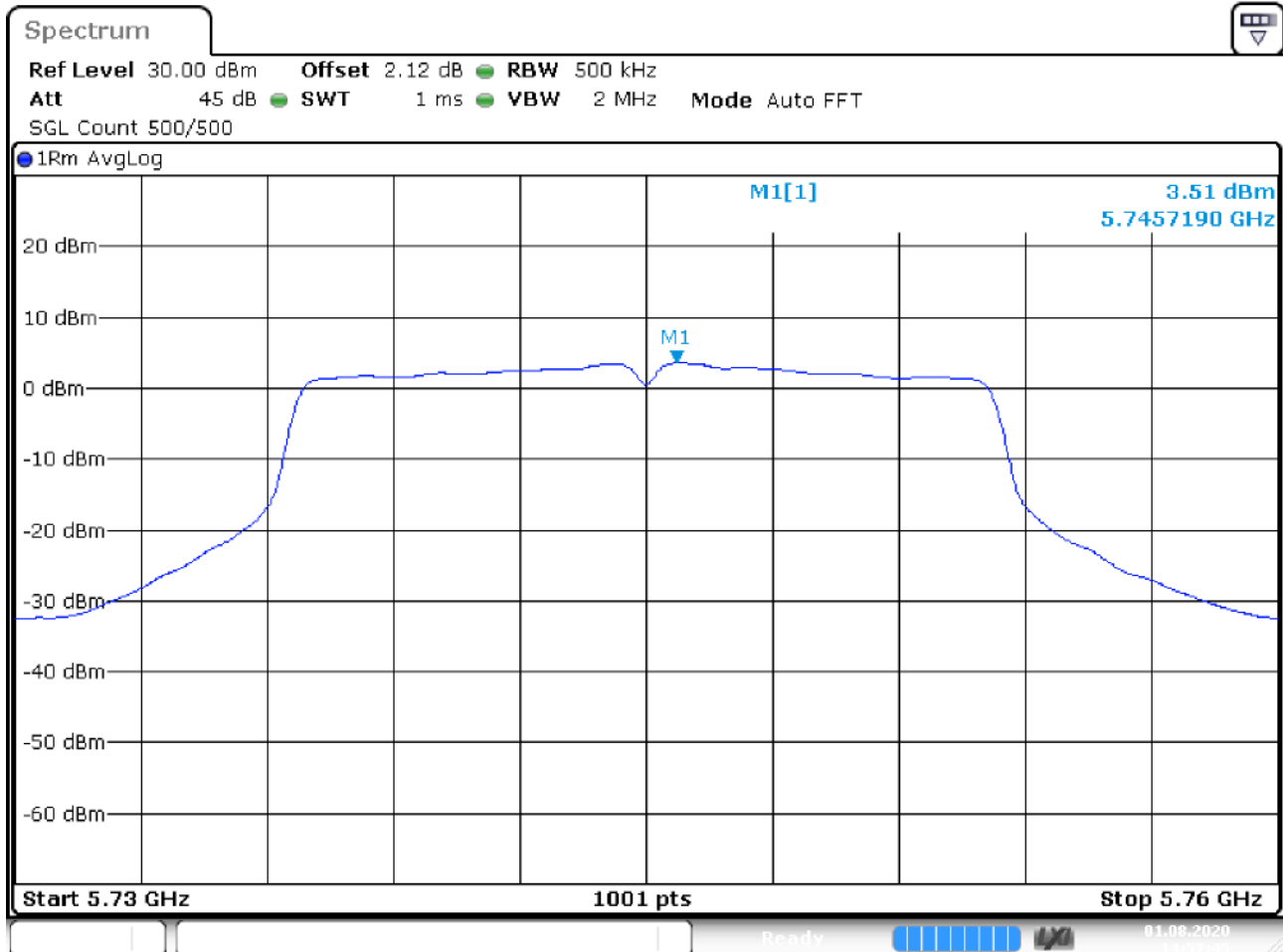


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4.8.2.19 11A20_CDD_149 ANT 1



Date: 1.AUG.2020 14:57:45



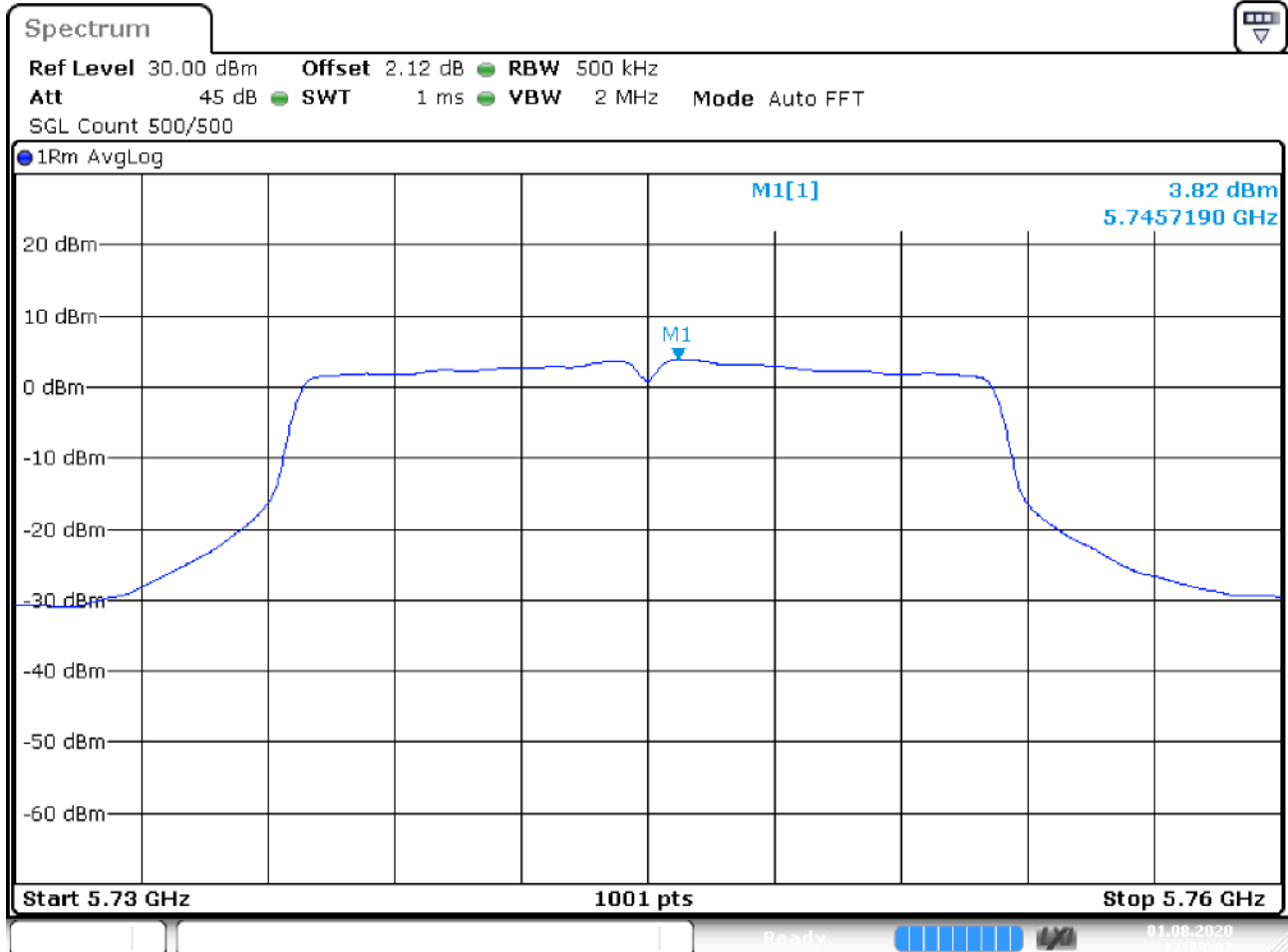
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4.8.2.20

11A20_CDD_149 ANT 2



Date: 1.AUG.2020 17:23:08



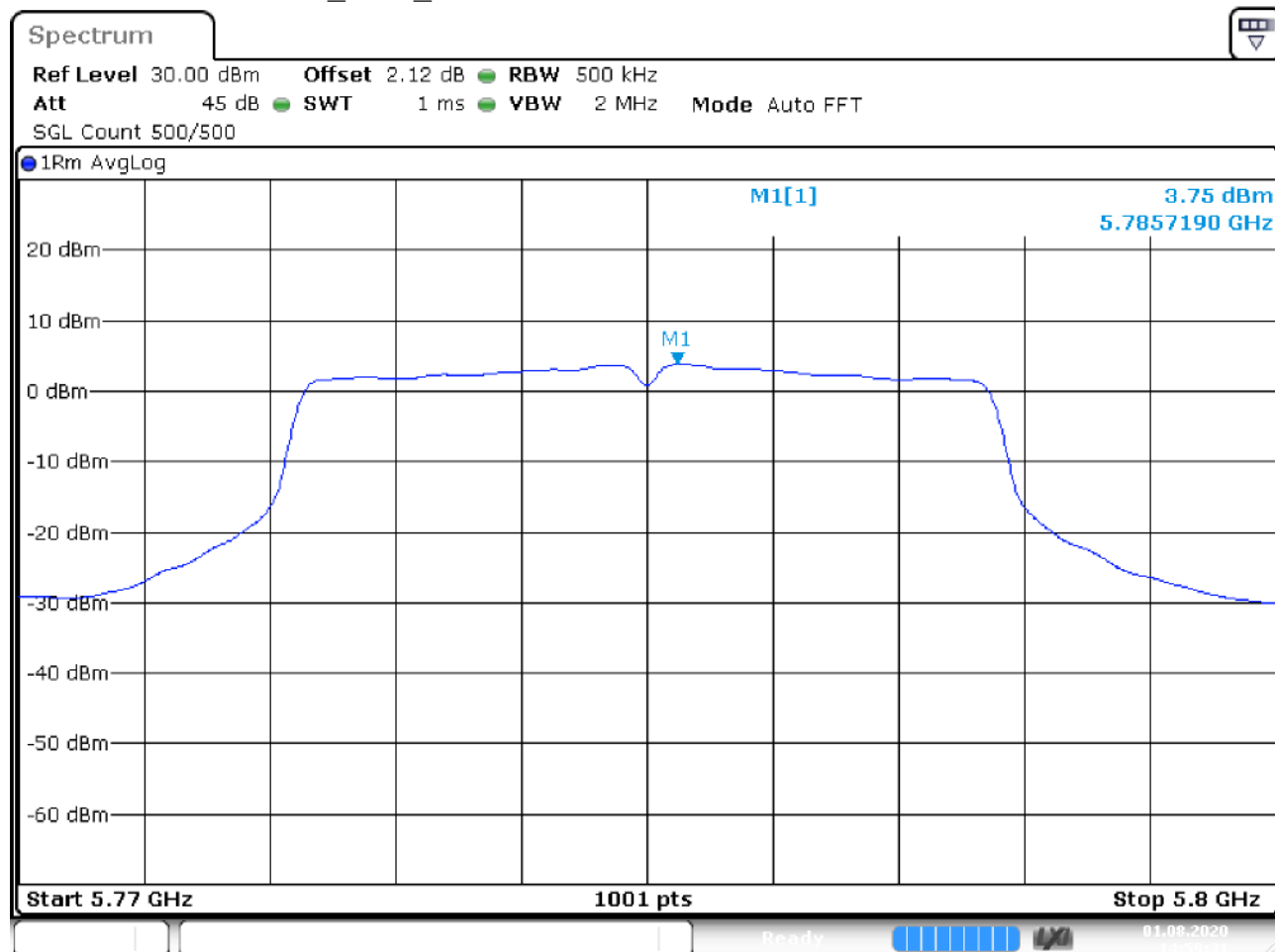
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4.8.2.21 11A20_CDD_157 ANT 1



Date: 1.AUG.2020 14:59:32

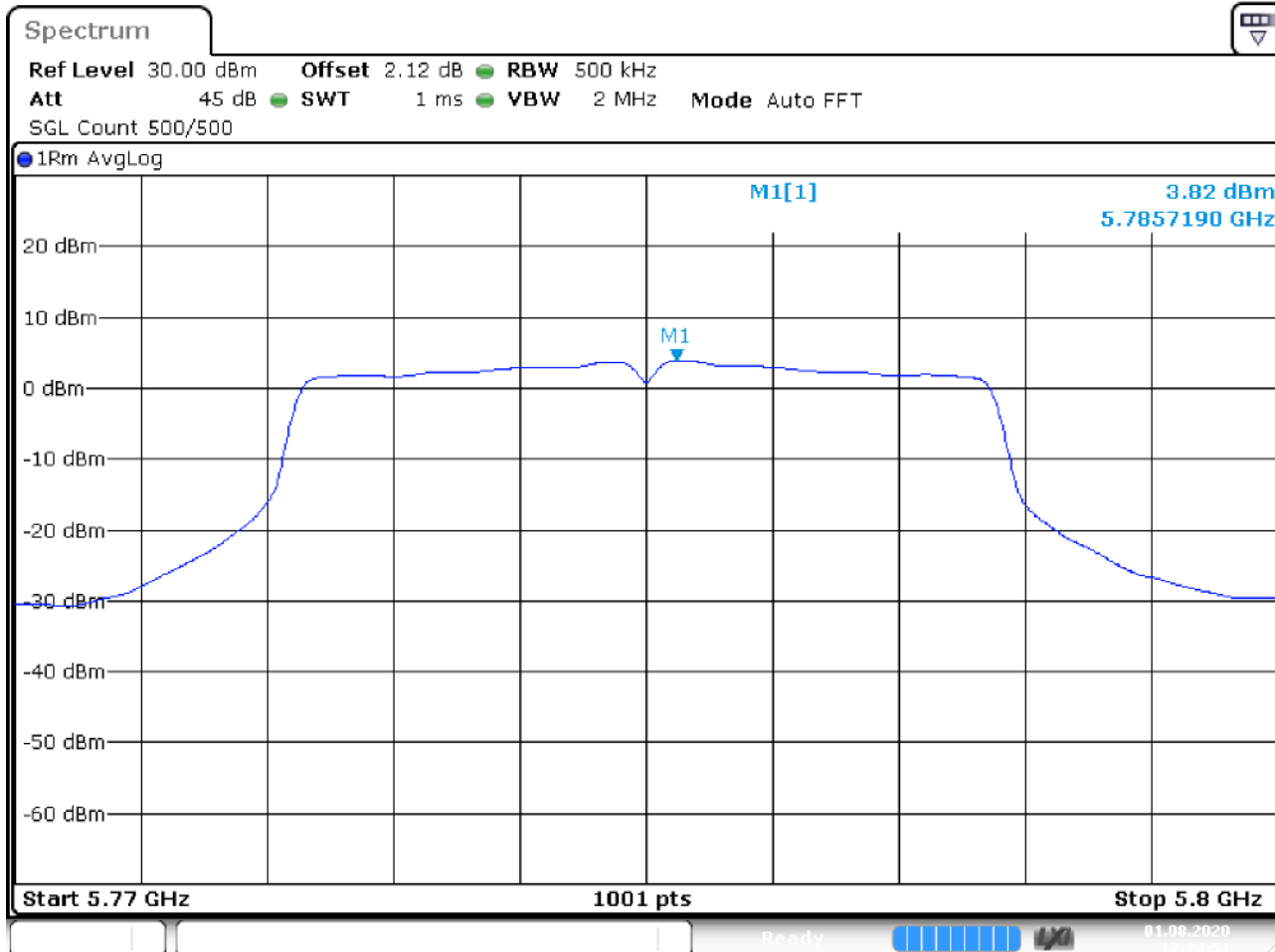


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4.8.2.22 11A20_CDD_157 ANT 2



Date: 1.AUG.2020 17:24:51



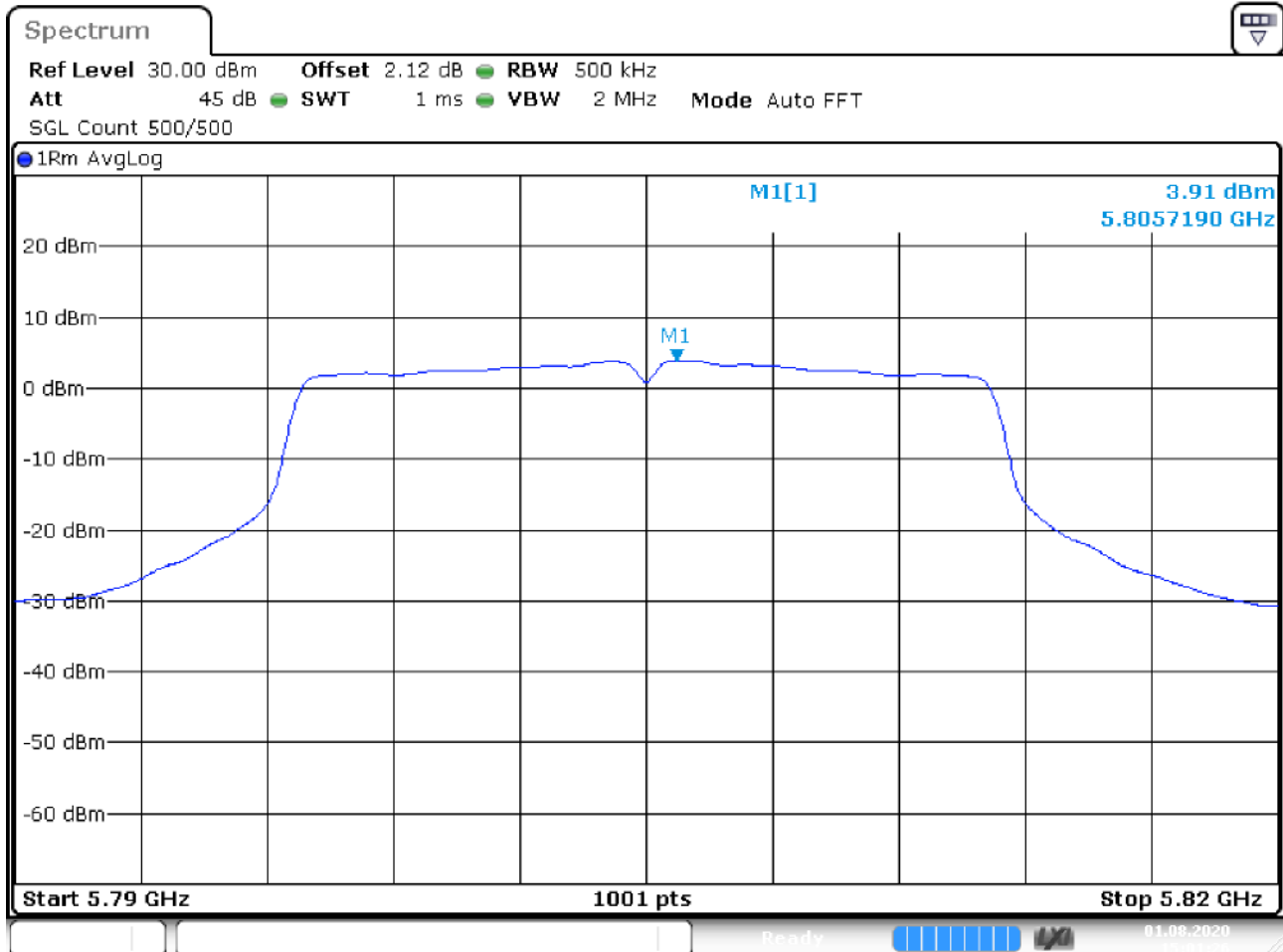
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4.8.2.23

11A20_CDD_161 ANT 1



Date: 1.AUG.2020 15:01:26

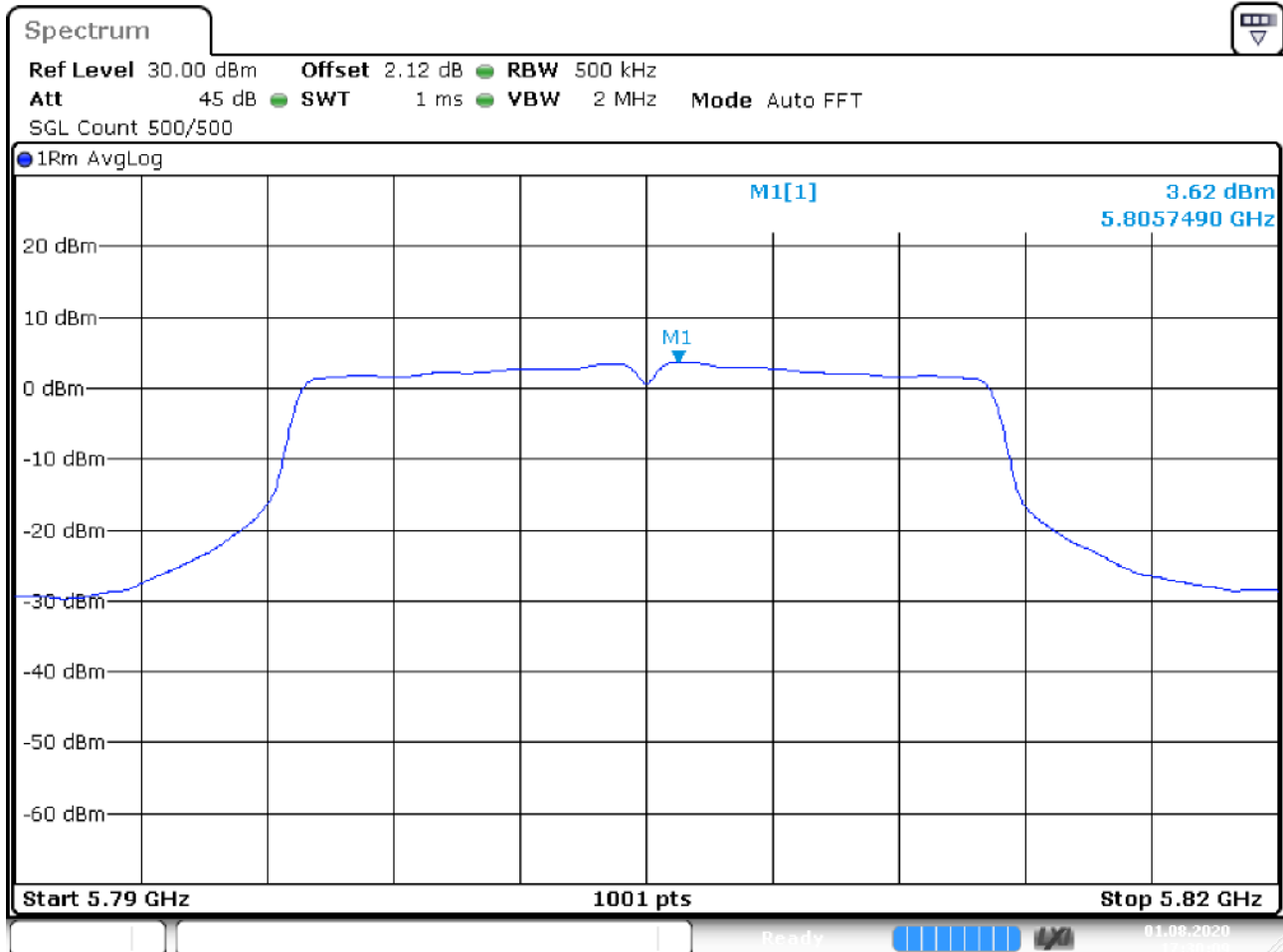


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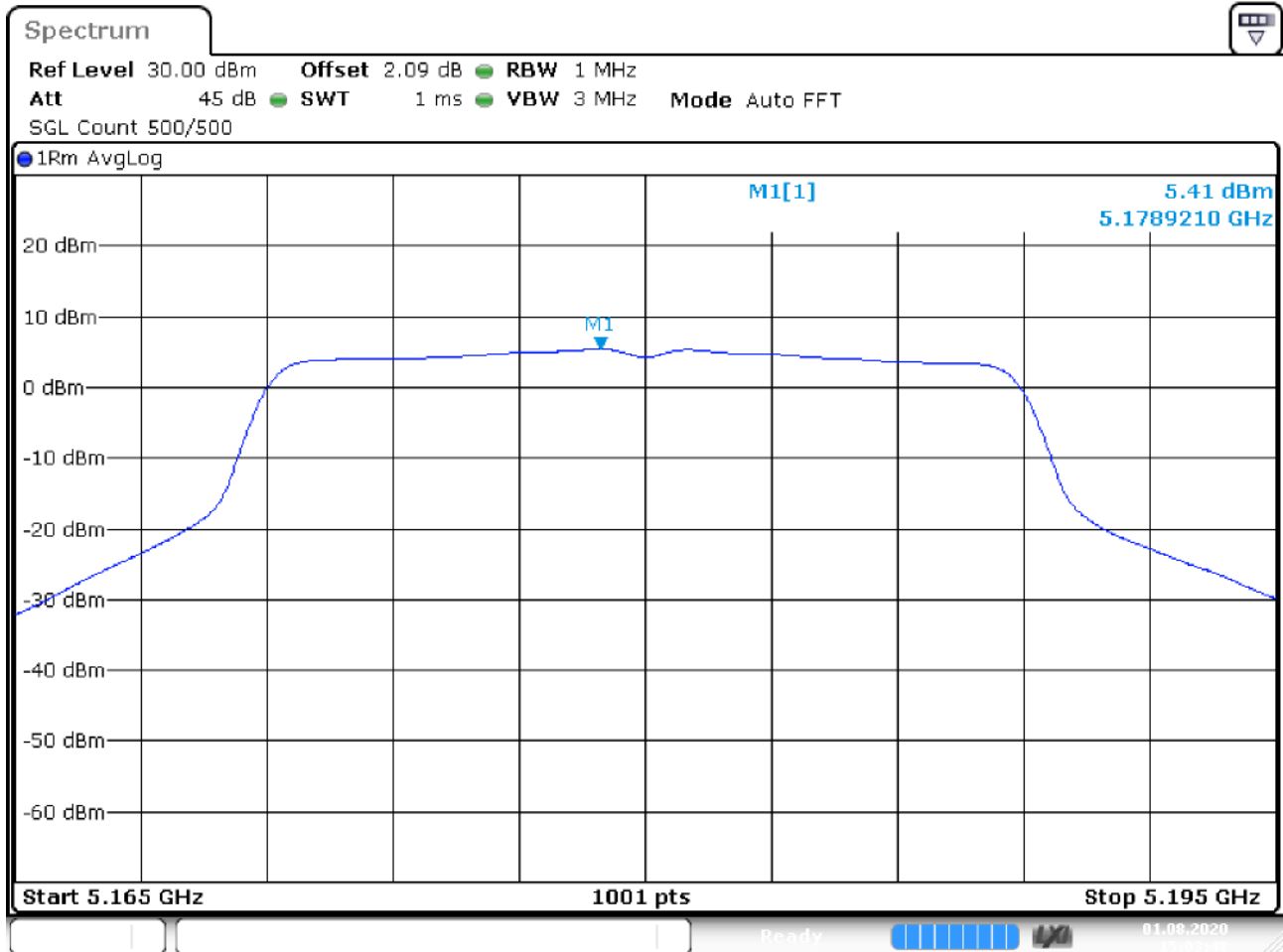


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4.8.2.25 11N20MIMO_36 ANT 1



Date: 1.AUG.2020 15:03:48



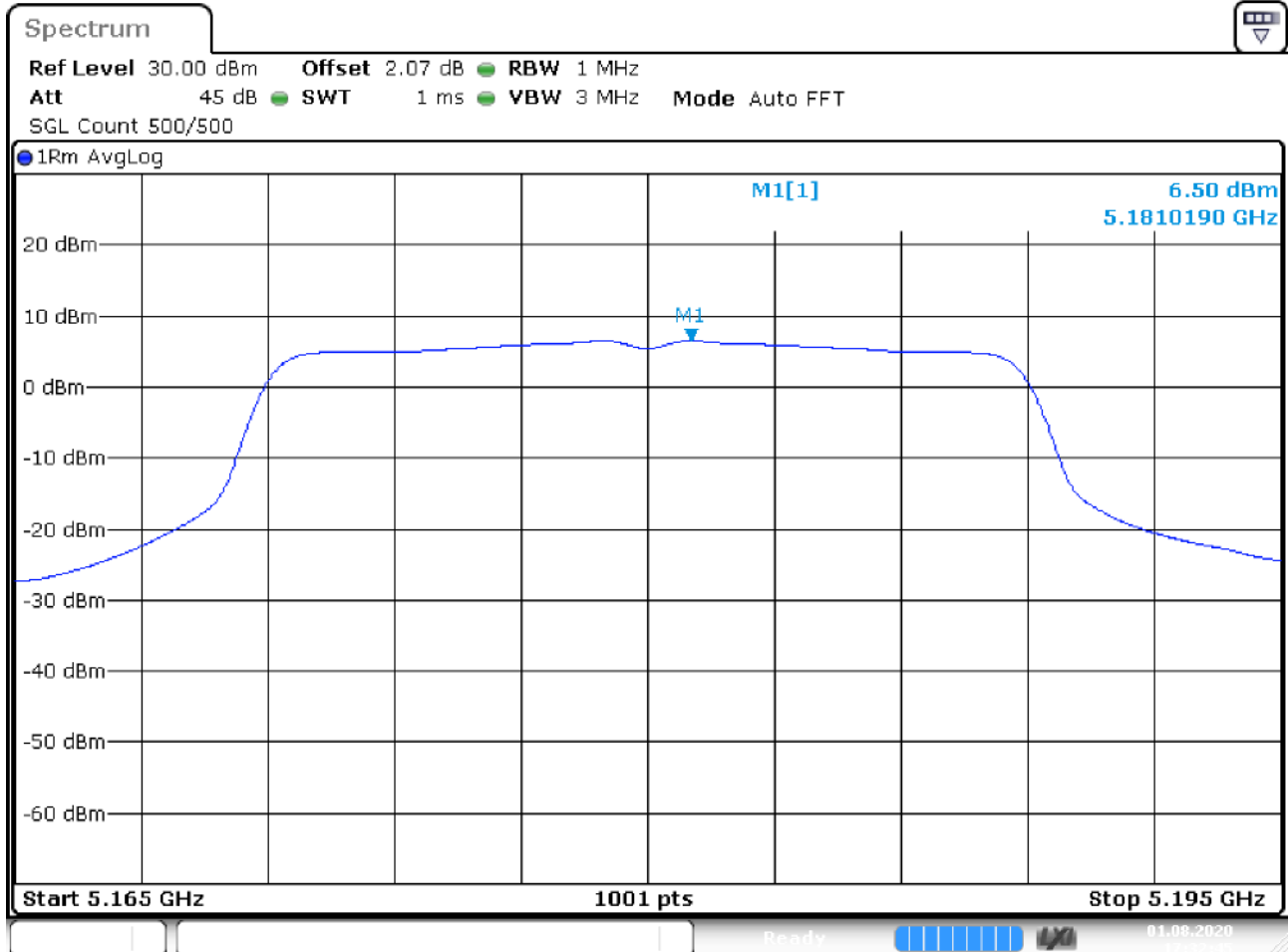
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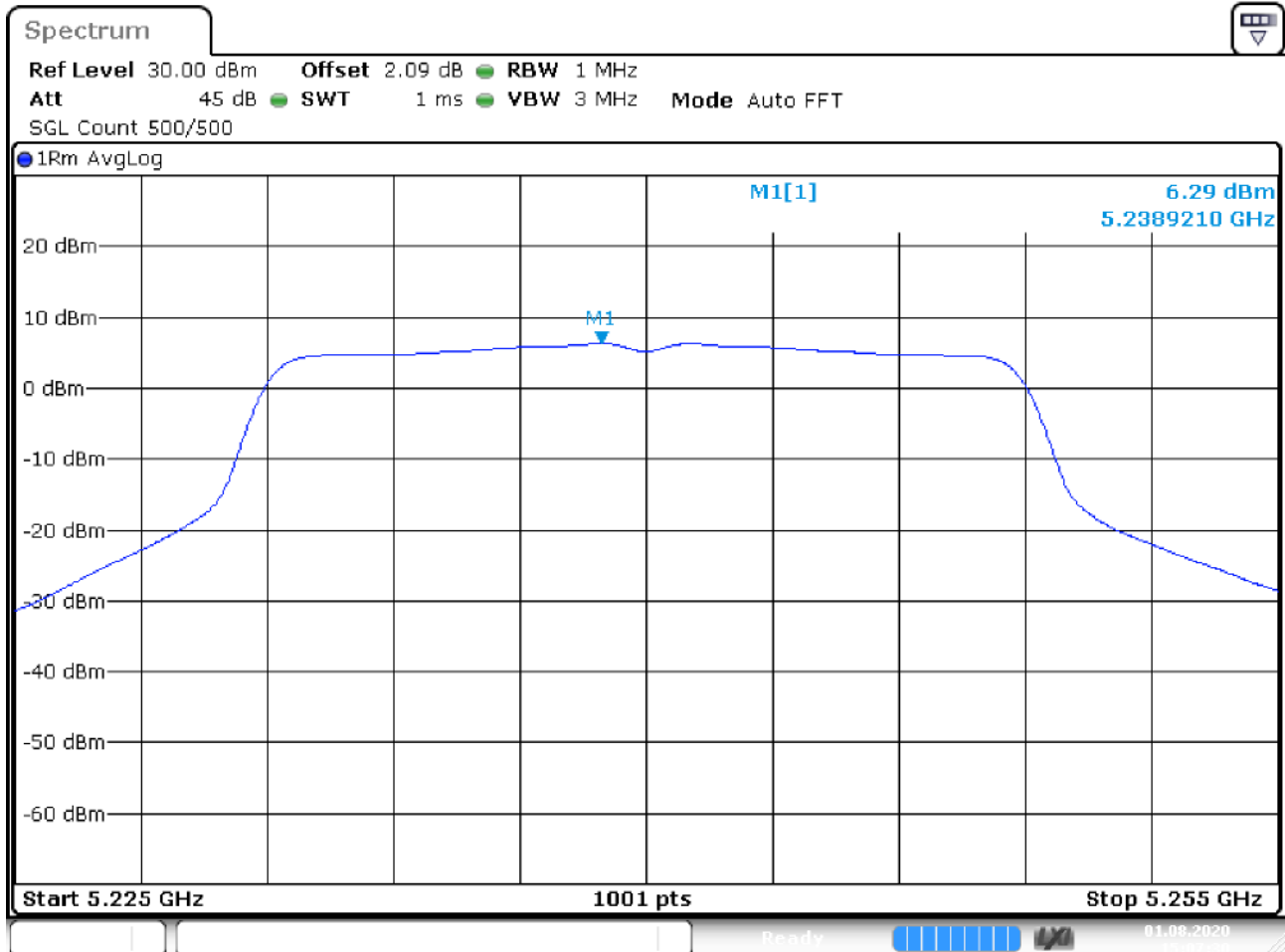


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4.8.2.27 11N20MIMO_48 ANT 1



Date: 1.AUG.2020 15:07:30



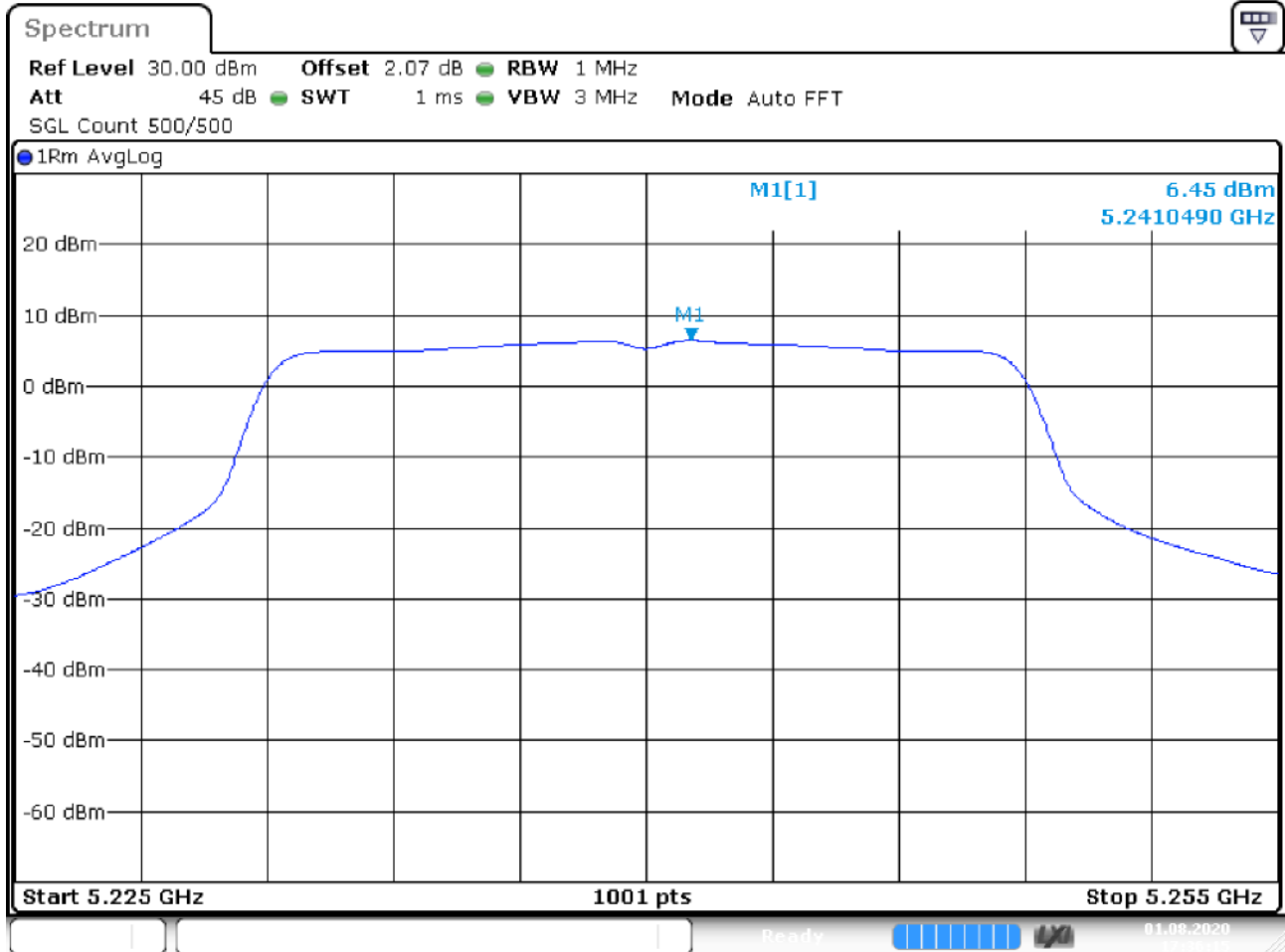
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4.8.2.28

11N20MIMO_48 ANT 2



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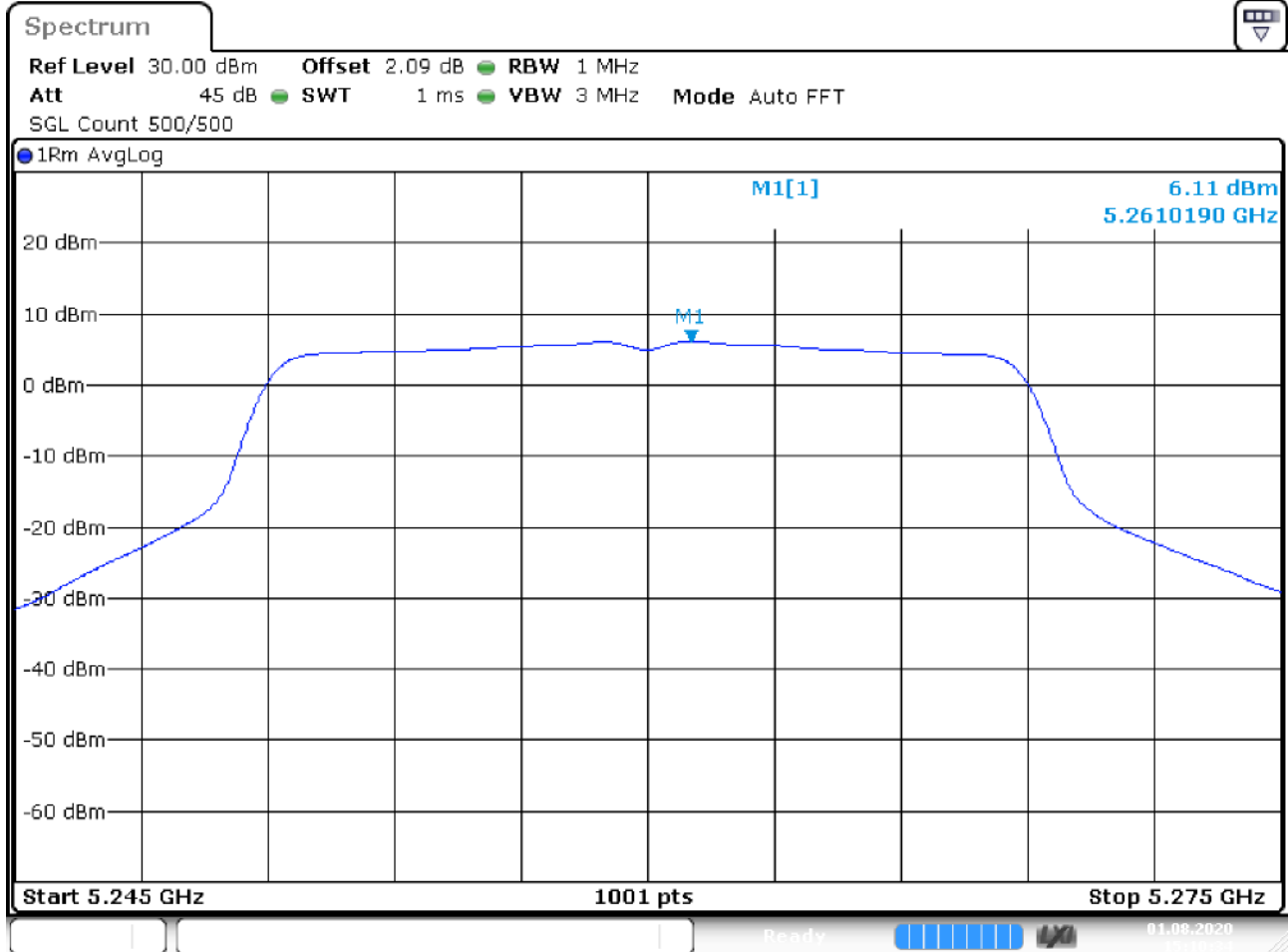
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4.8.2.29

11N20MIMO_52 ANT 1



Date: 1.AUG.2020 15:10:35



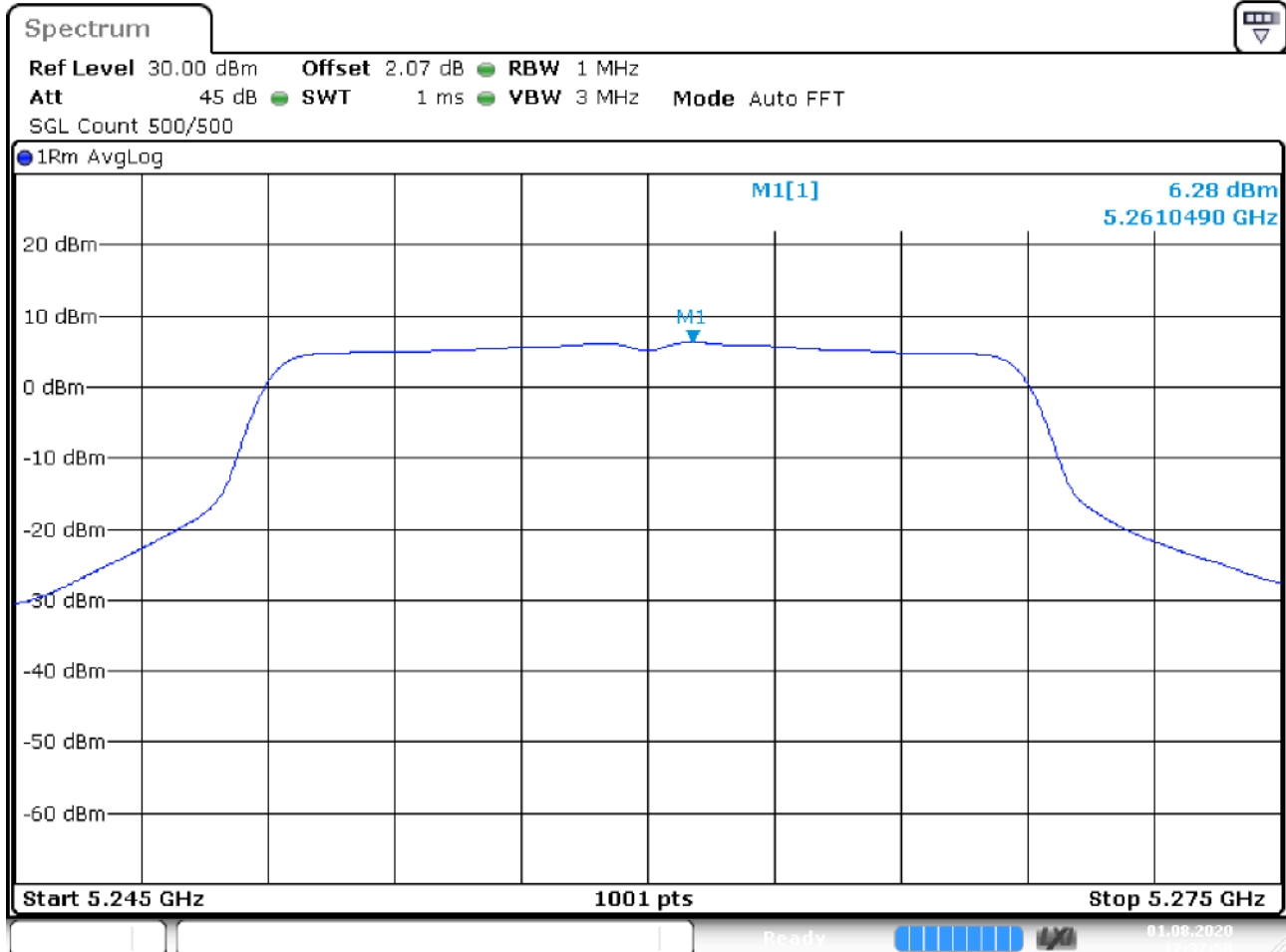
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4.8.2.30

11N20MIMO_52 ANT 2



Date: 1.AUG.2020 17:37:50

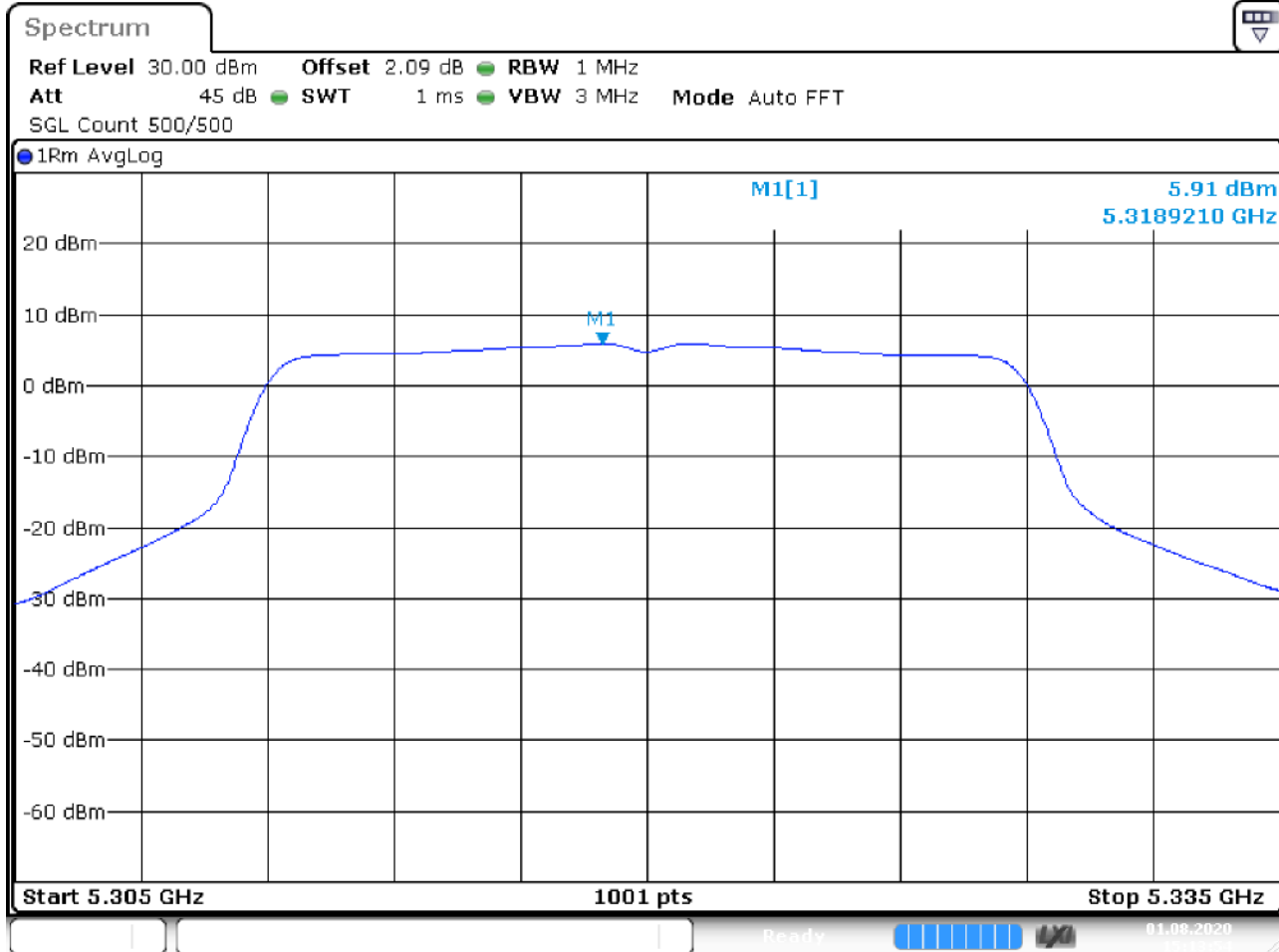


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4.8.2.31 11N20MIMO_64 ANT 1



Date: 1.AUG.2020 15:13:54

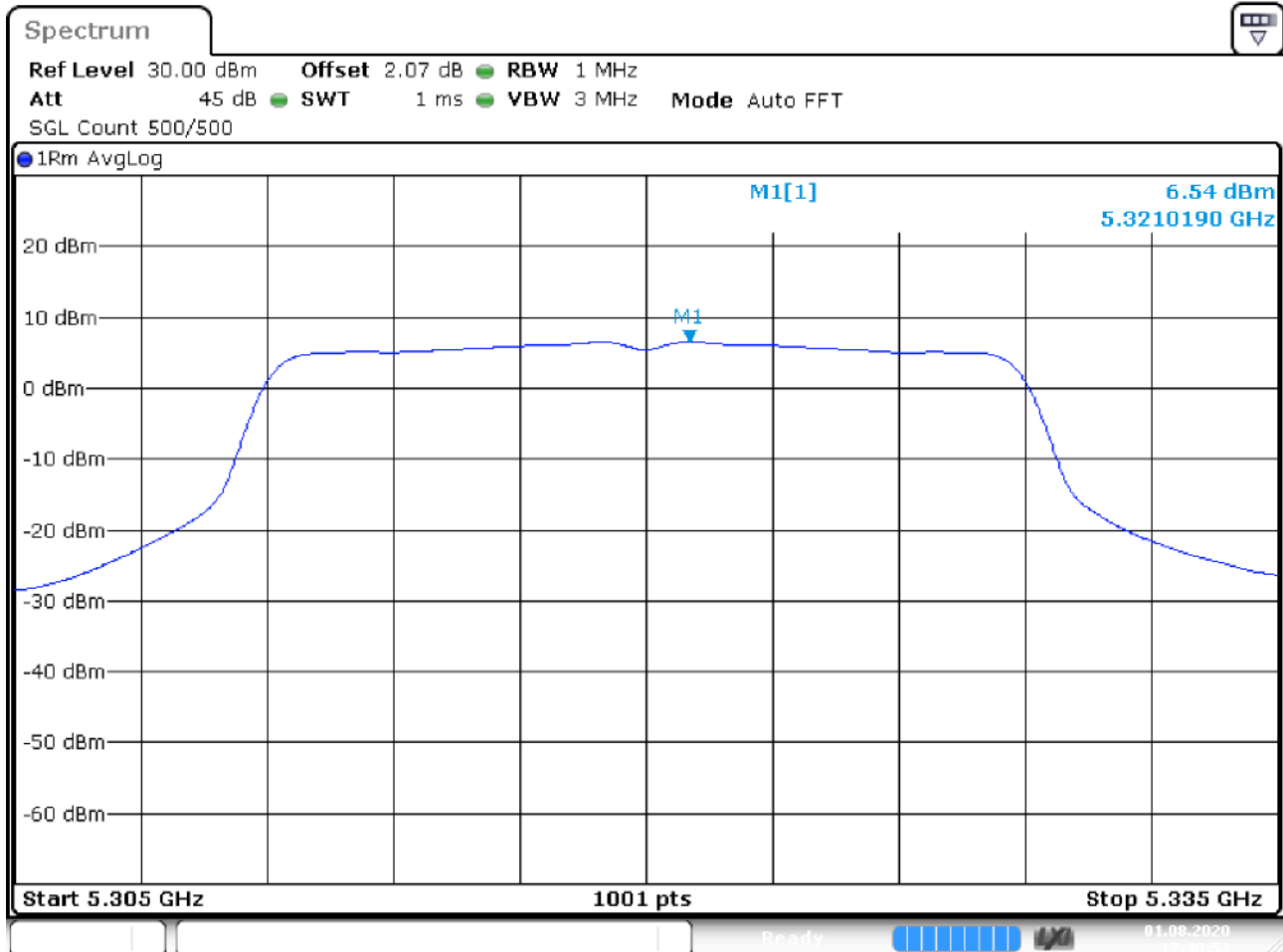


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4.8.2.32 11N20MIMO_64 ANT 2



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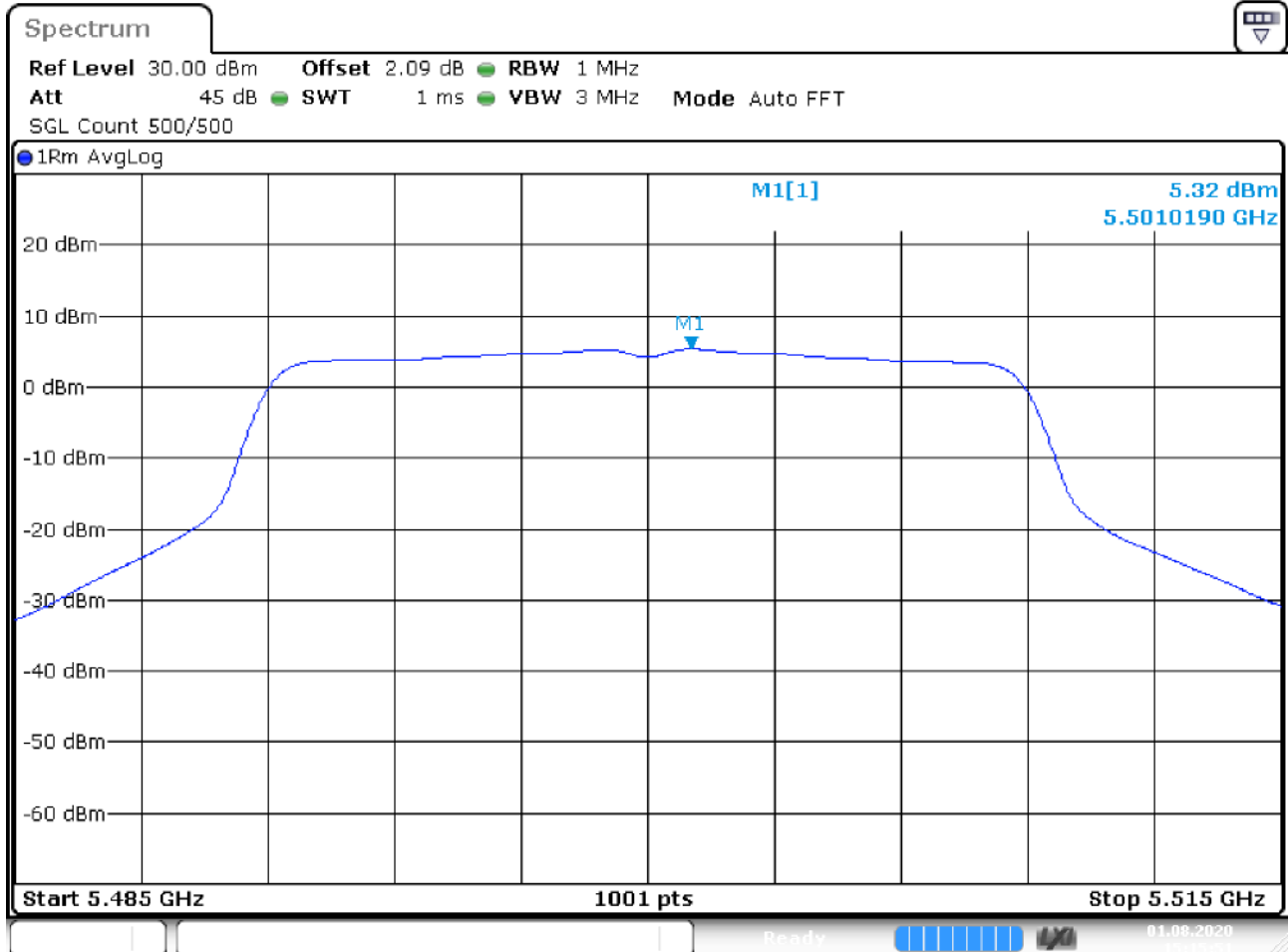


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4.8.2.33

11N20MIMO_100 ANT 1



Date: 1.AUG.2020 15:15:51

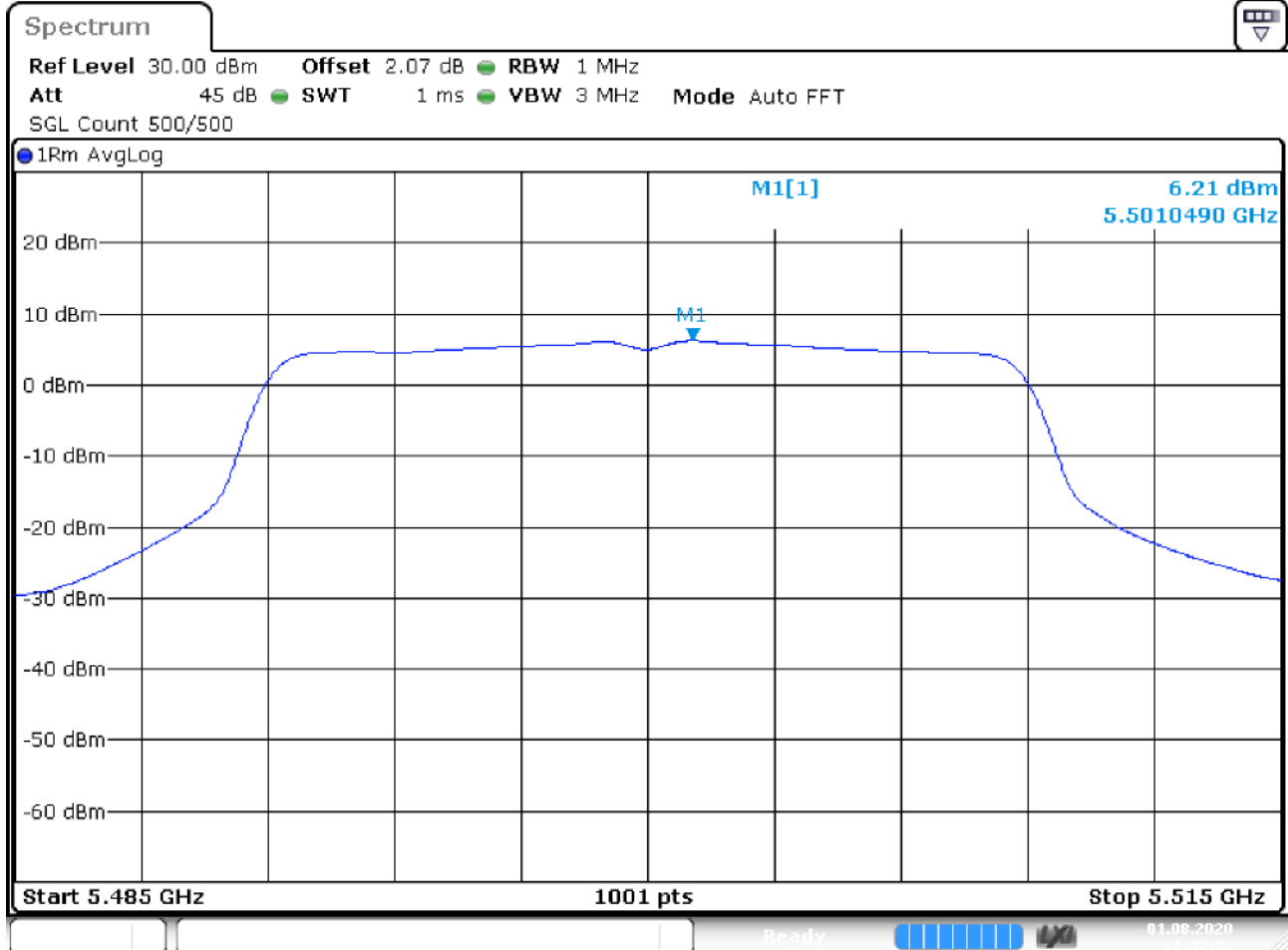


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4.8.2.34 11N20MIMO_100 ANT 2



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