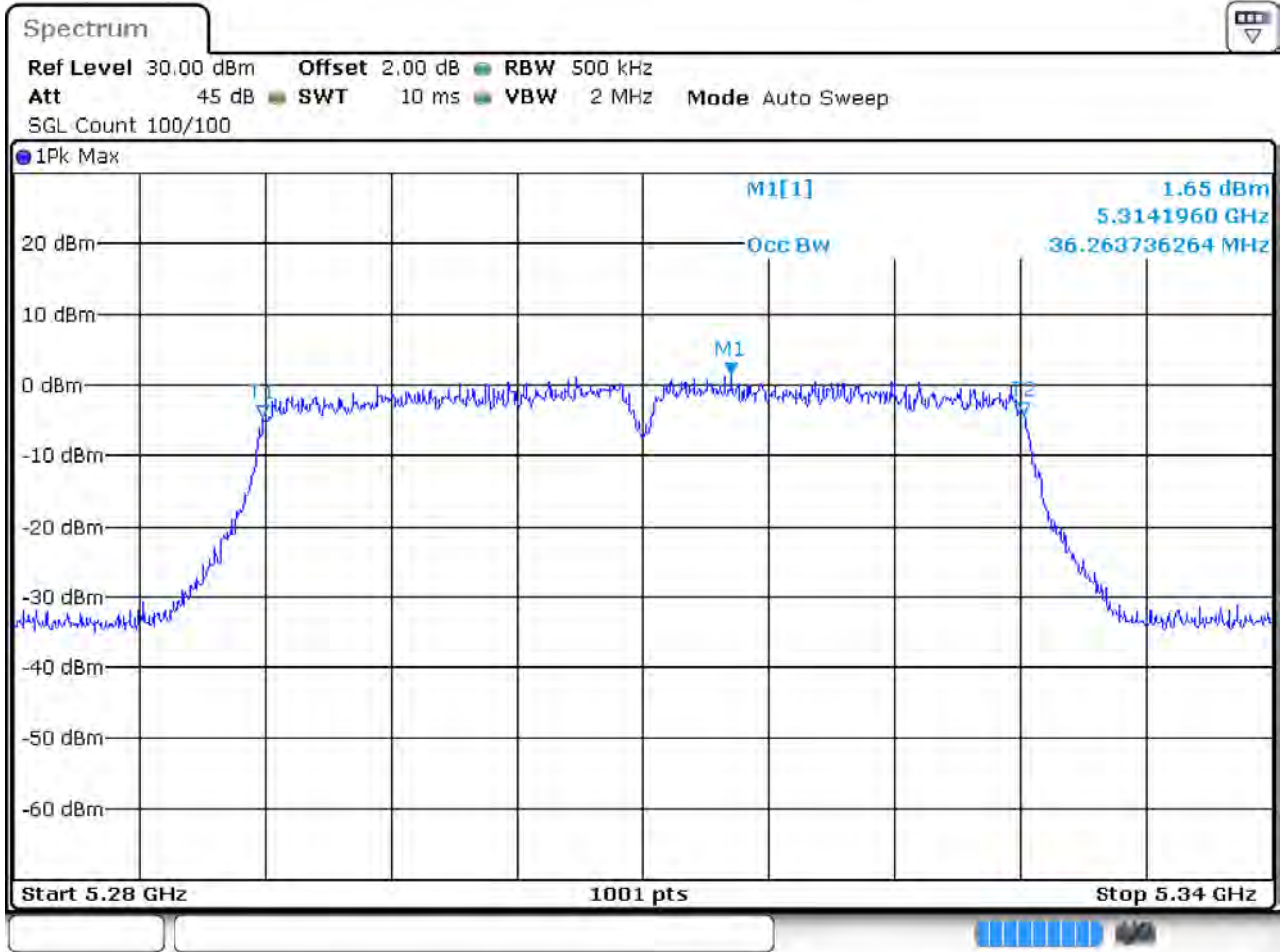


4.7.2.72 11N40MIMO_62 ANT 2

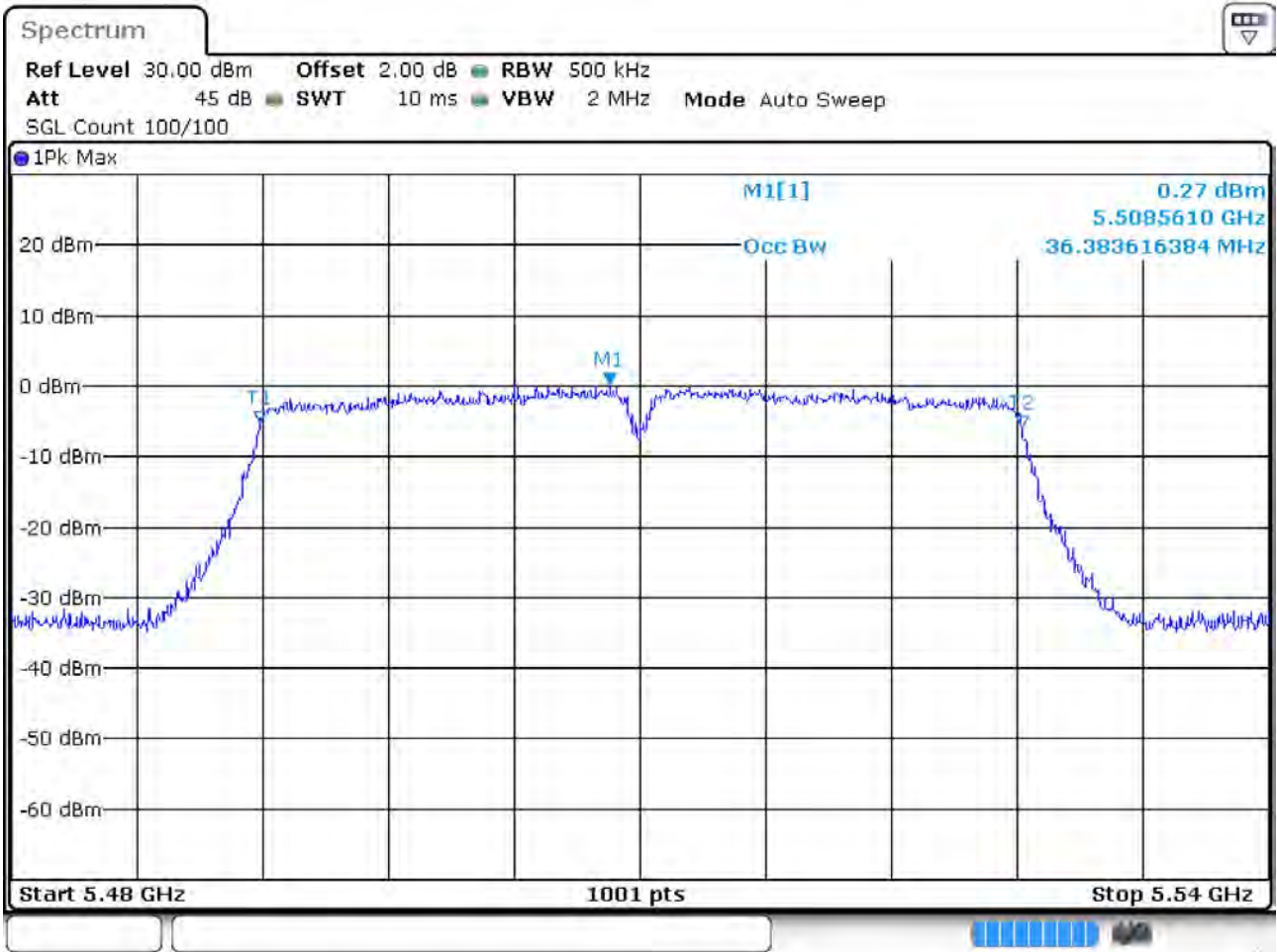


Date: 30 JUL 2019 06:28:21



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4.7.2.73 11N40MIMO_102 ANT 1



Date: 30 JUL 2019 06:52:05

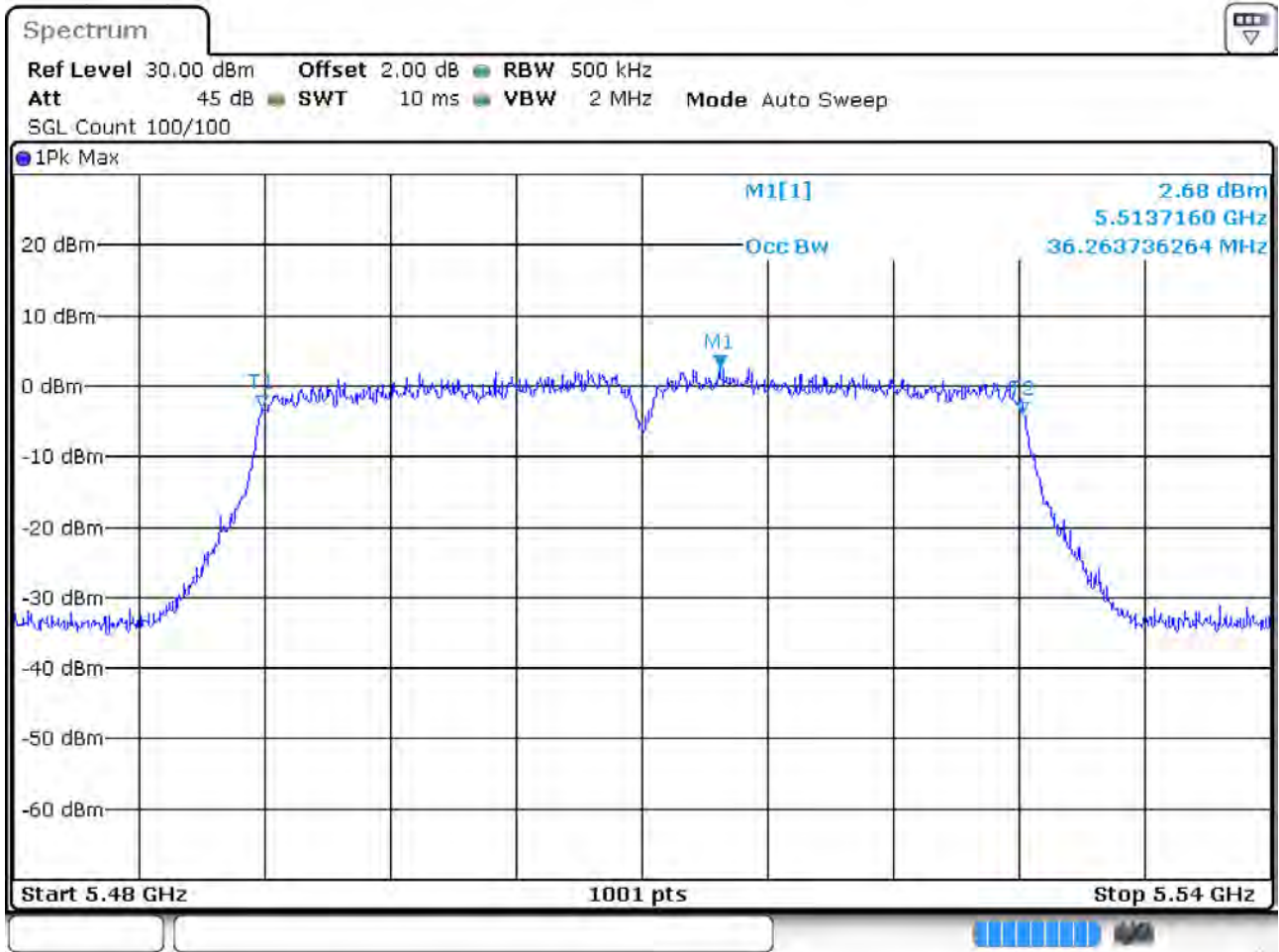


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4.7.2.74 11N40MIMO_102 ANT 2

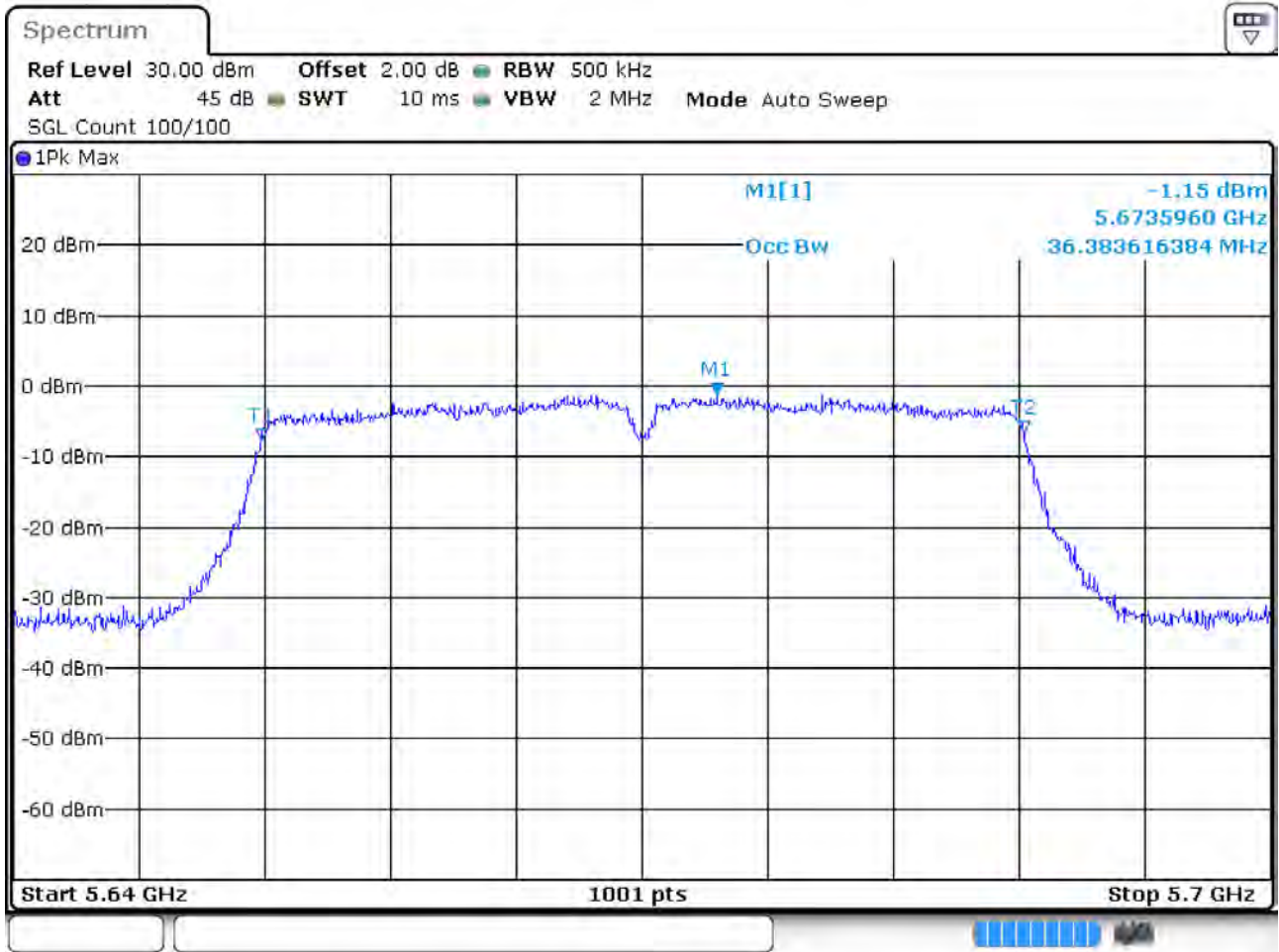


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4.7.2.75 11N40MIMO_134 ANT 1

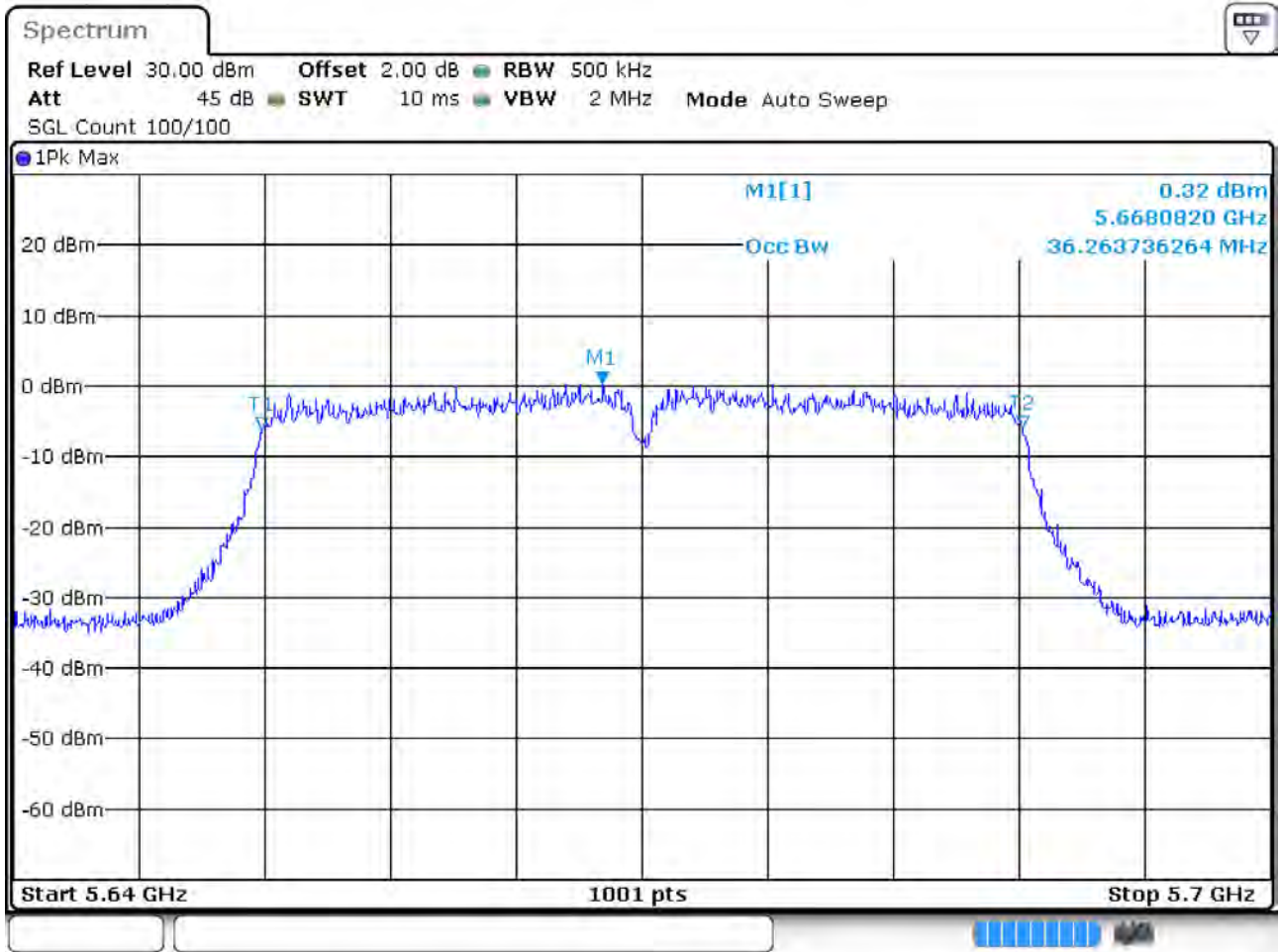


Date: 30 JUL 2019 06:54:08



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4.7.2.76 11N40MIMO_134 ANT 2



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4.7.2.77 11N40MIMO_151 ANT 1



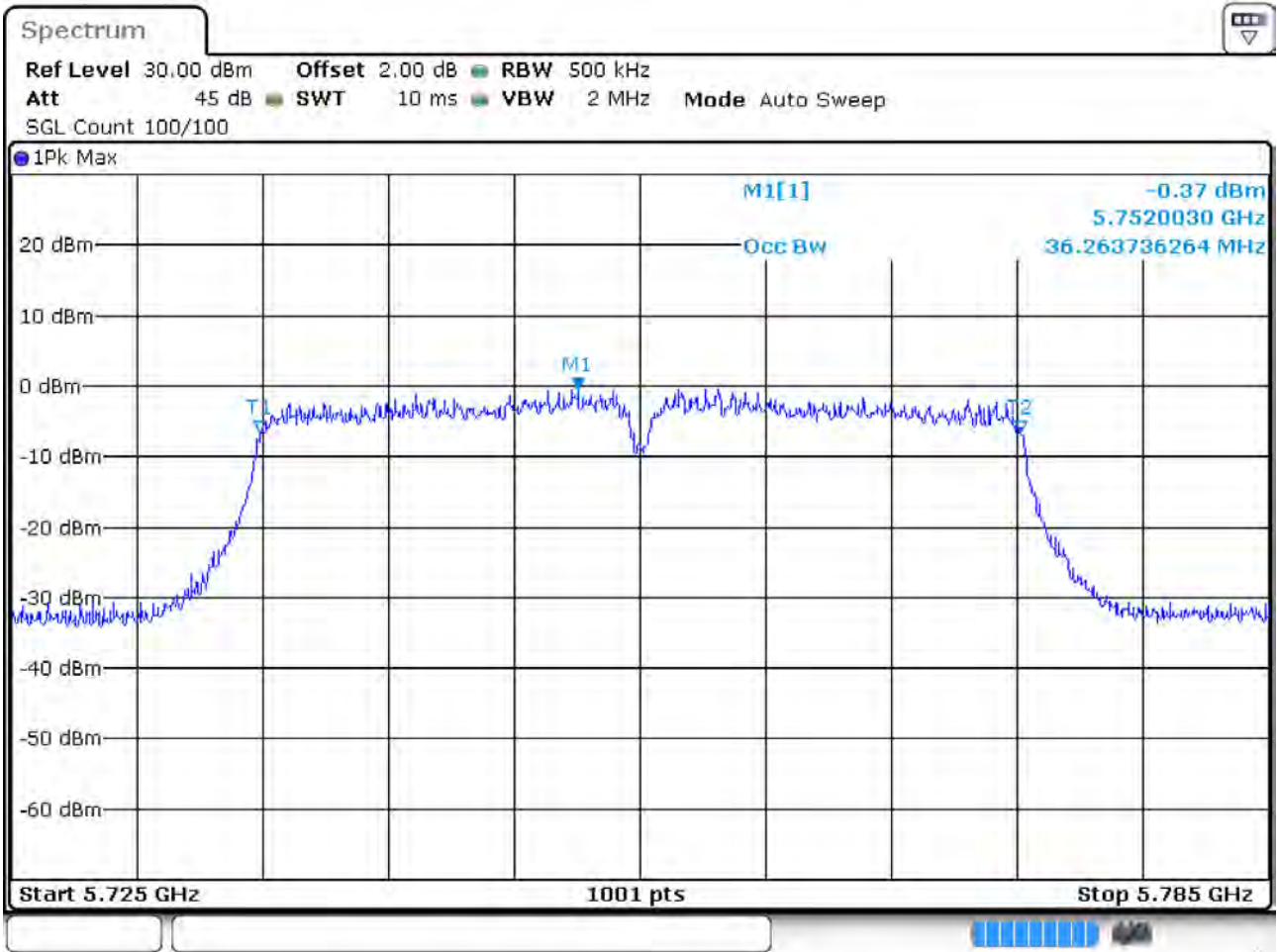
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4.7.2.78 11N40MIMO_151 ANT 2



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4.7.2.79 11N40MIMO_159 ANT 1

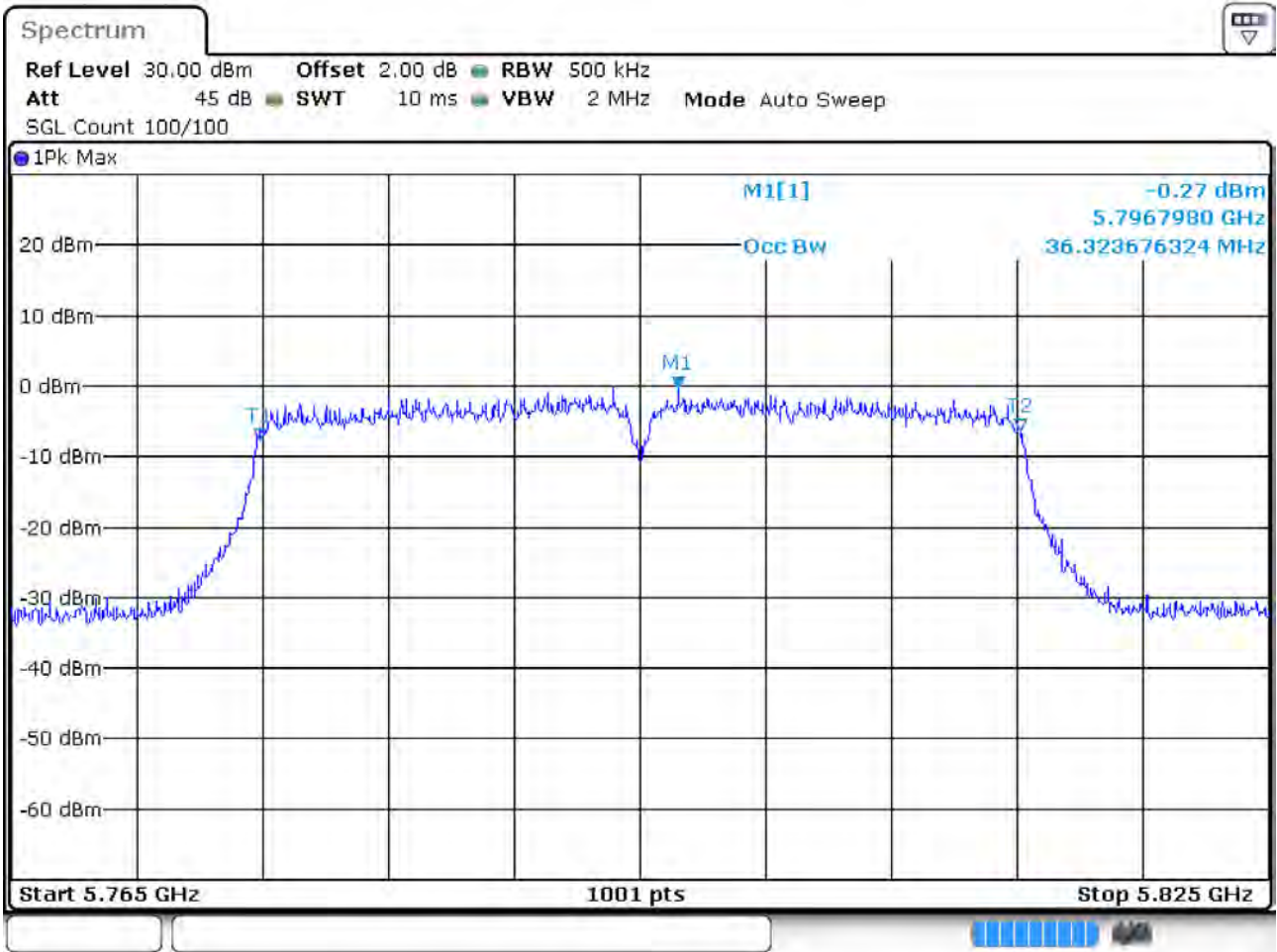


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4.7.2.80 11N40MIMO_159 ANT 2



Date: 30 JUL 2019 06:36:49

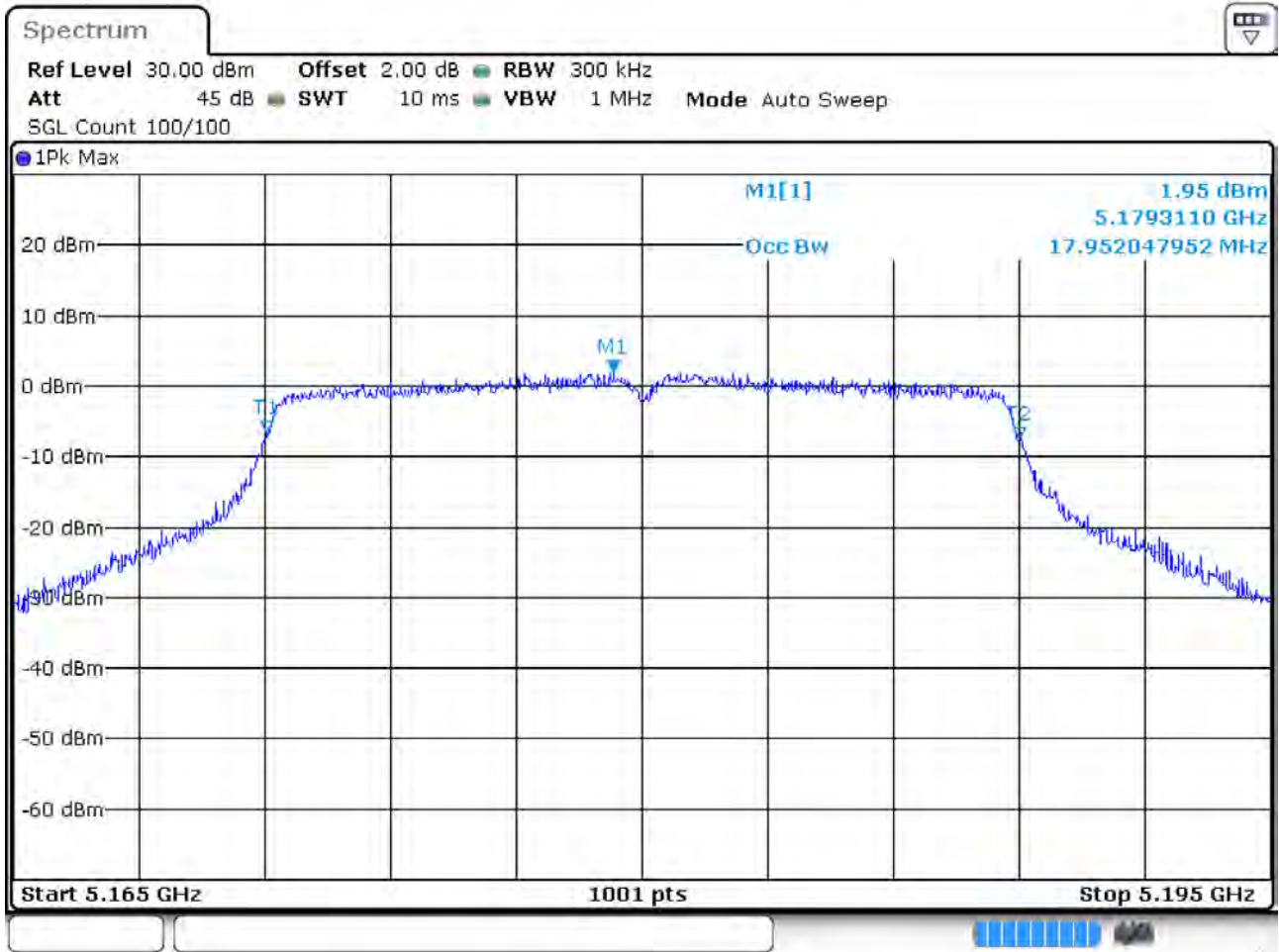


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4.7.2.81 11AC20_36 ANT 1



Date: 30 JUL 2019 00:43:42



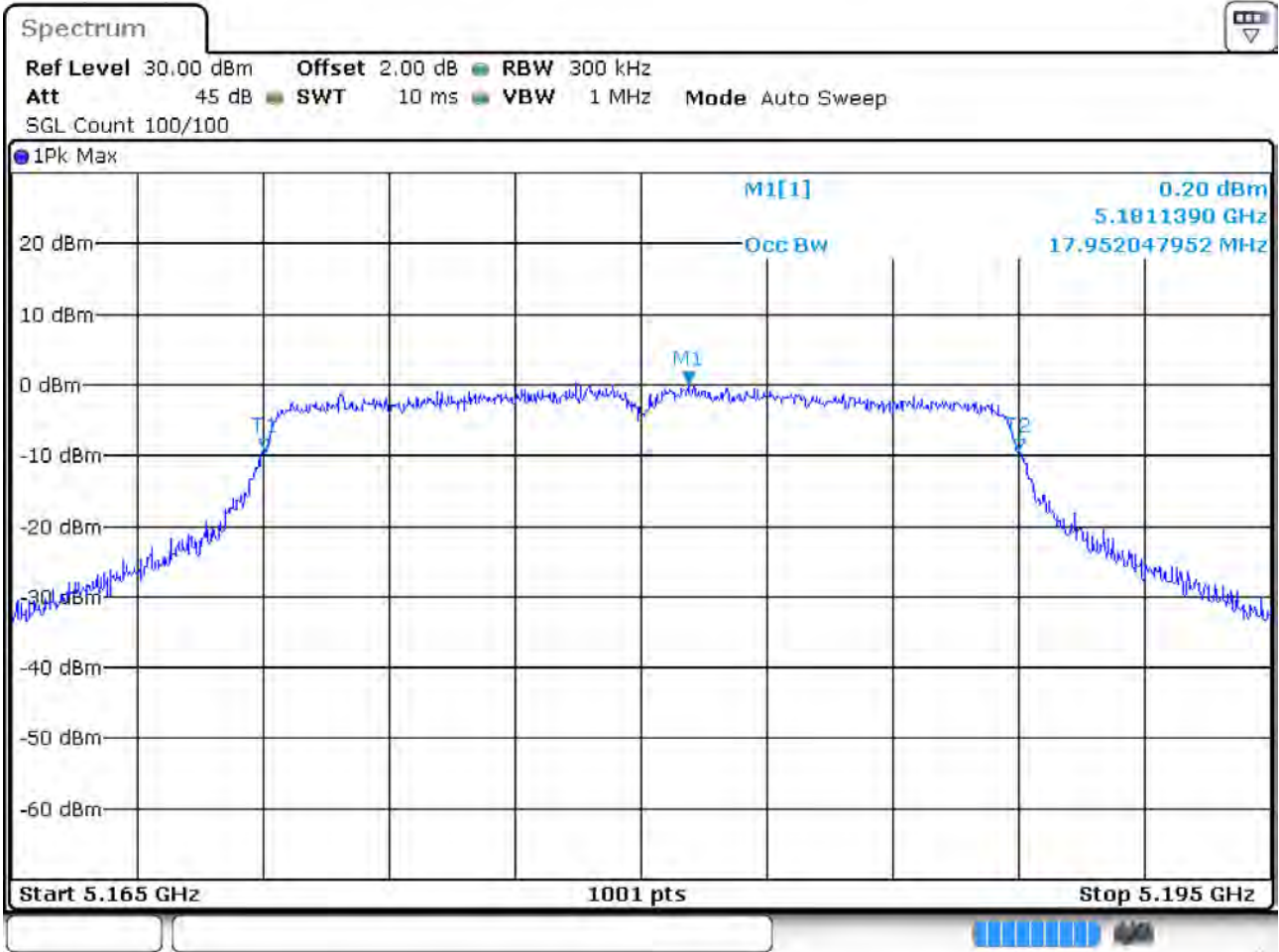
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4.7.2.82 11AC20_36 ANT 2



Date: 30 JUL 2019 01:21:31

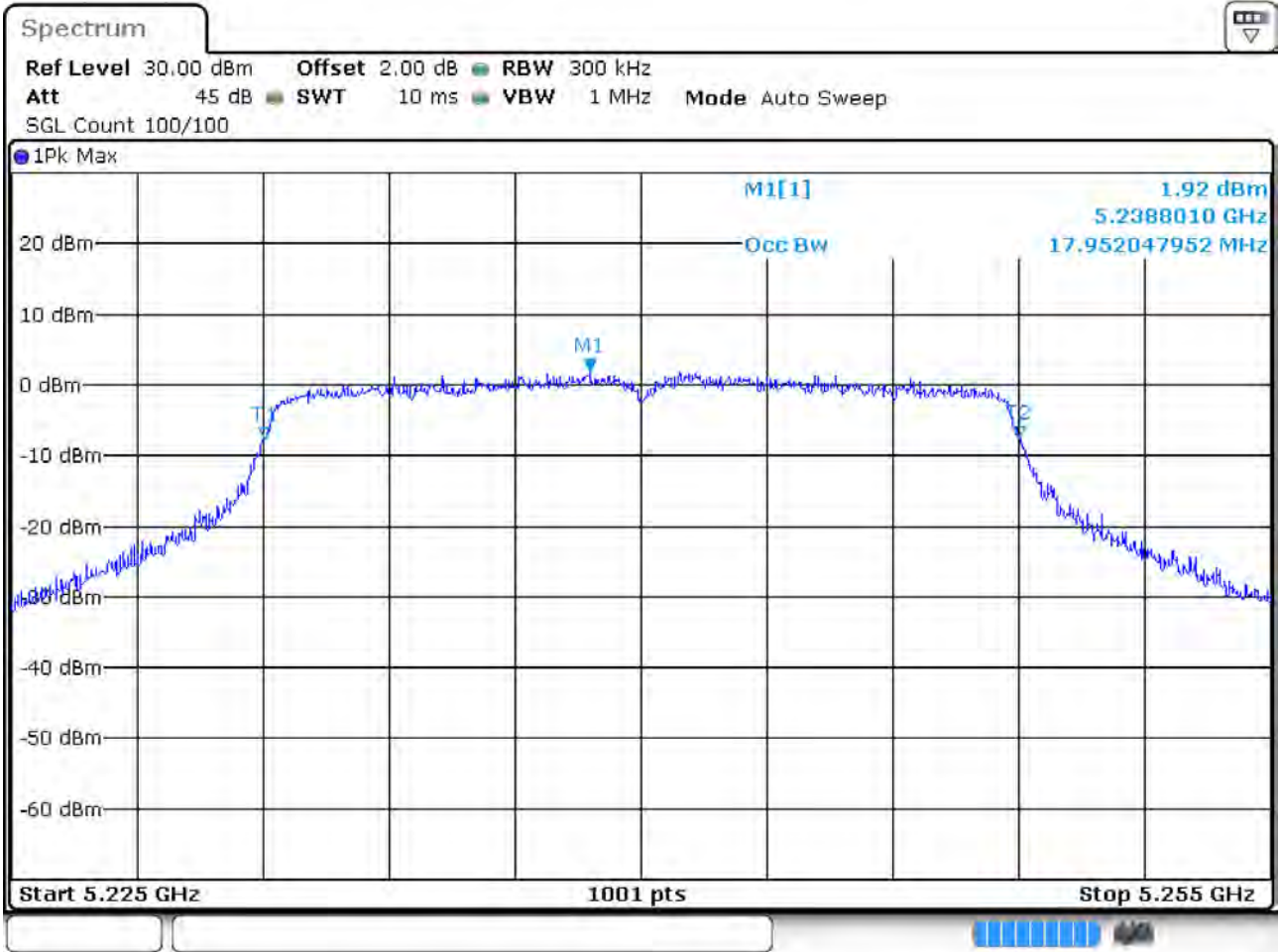


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4.7.2.83 11AC20_48 ANT 1



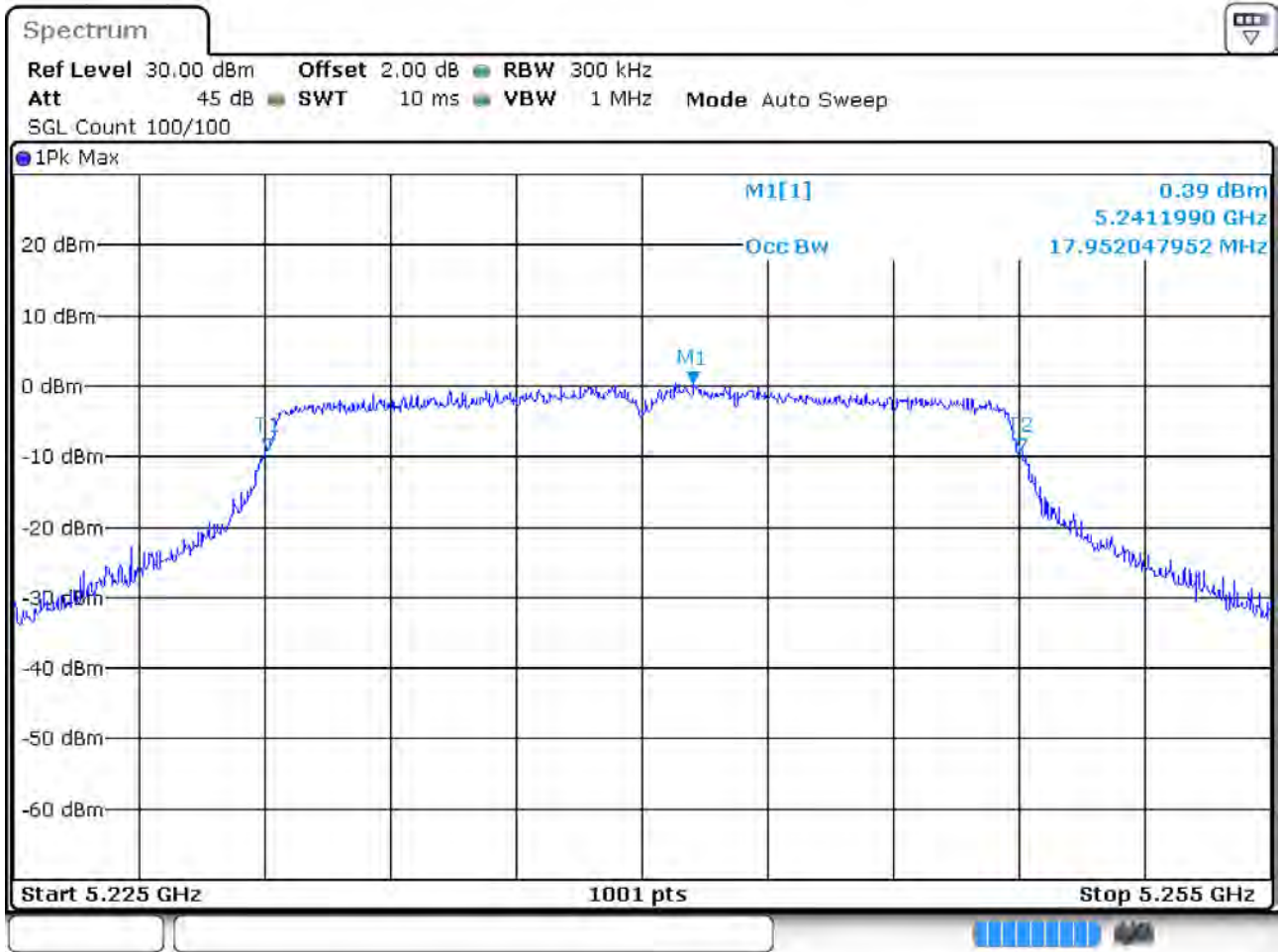
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4.7.2.84 11AC20_48 ANT 2

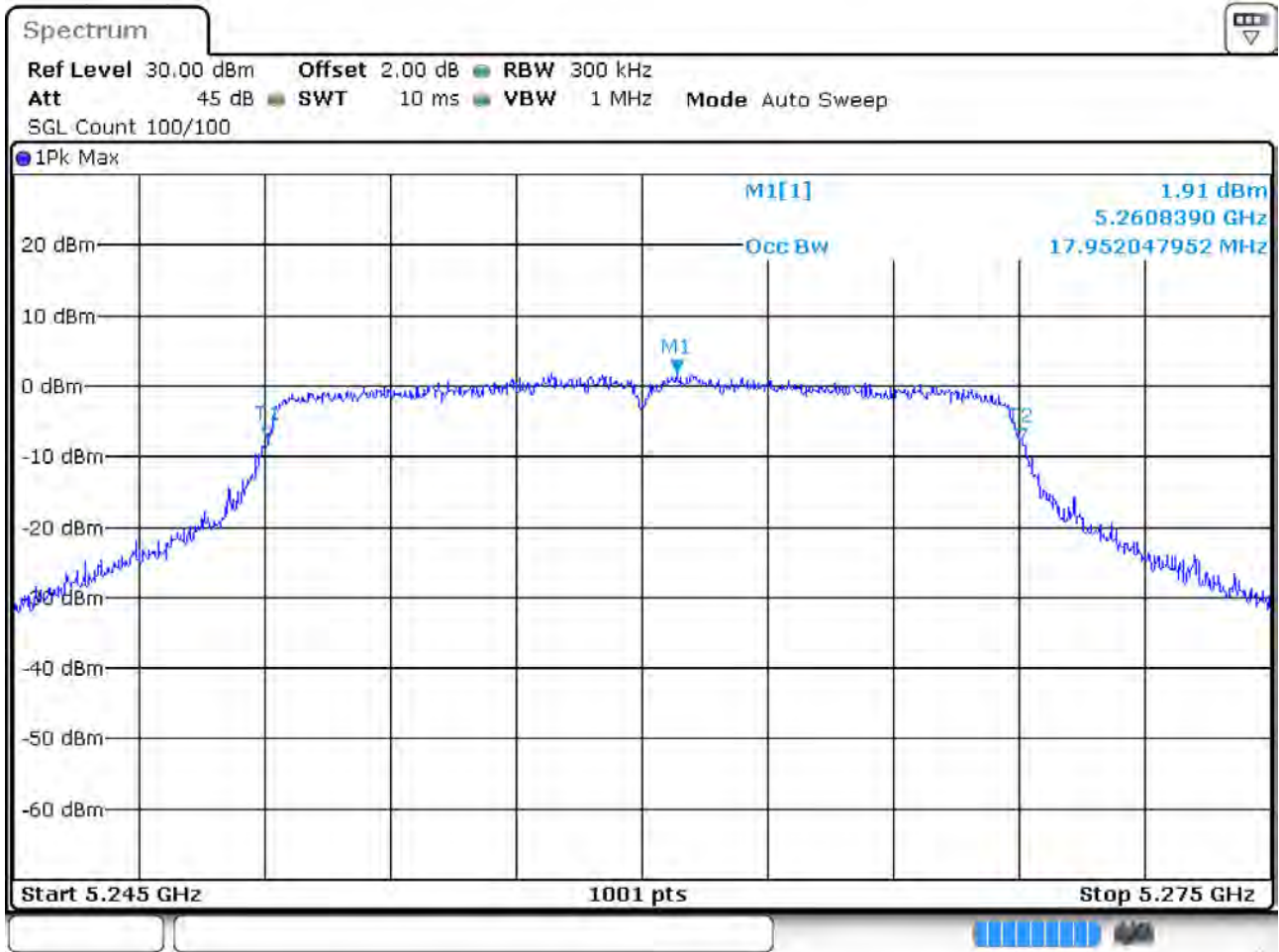


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4.7.2.85 11AC20_52 ANT 1

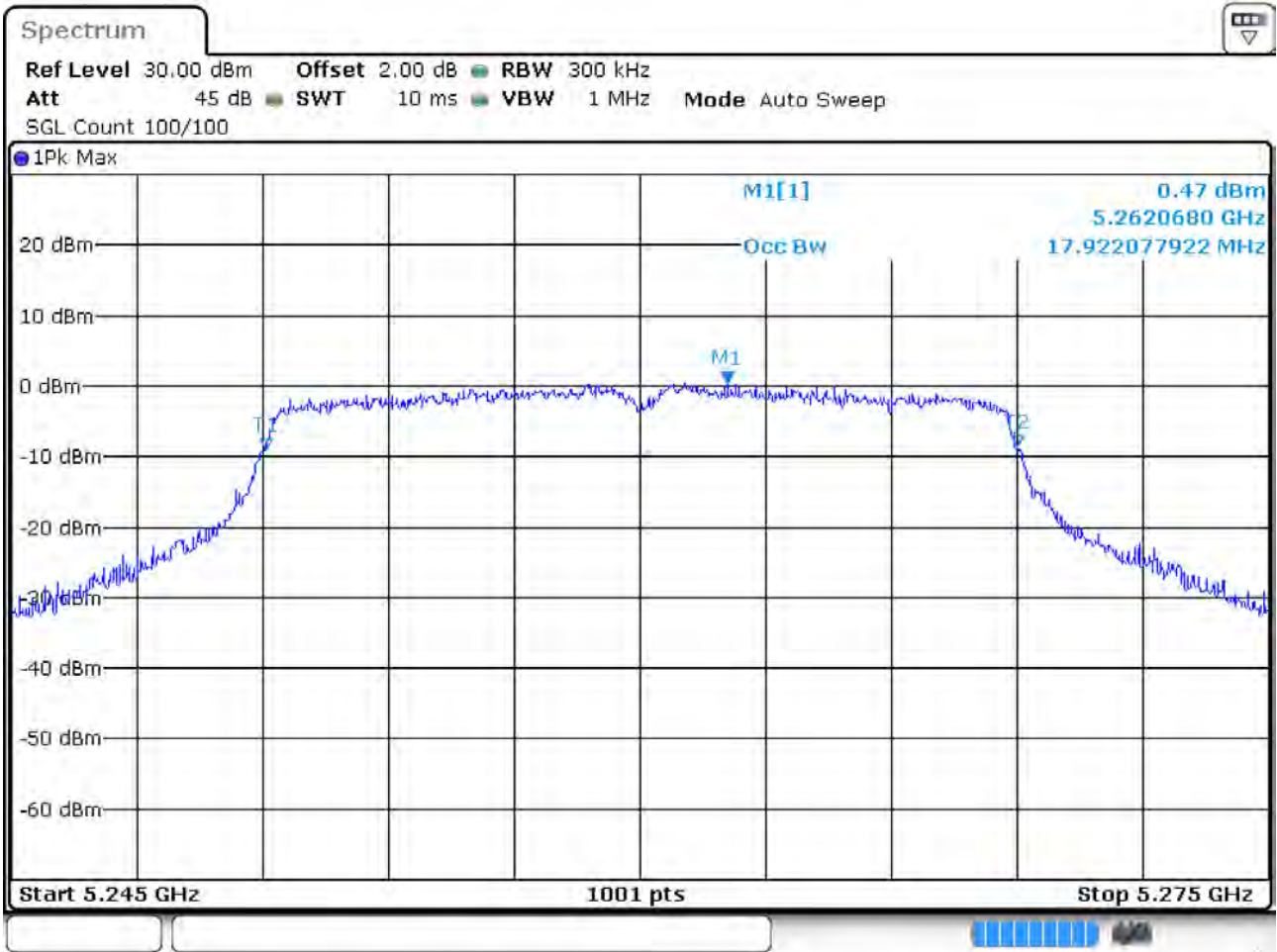


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4.7.2.86 11AC20_52 ANT 2



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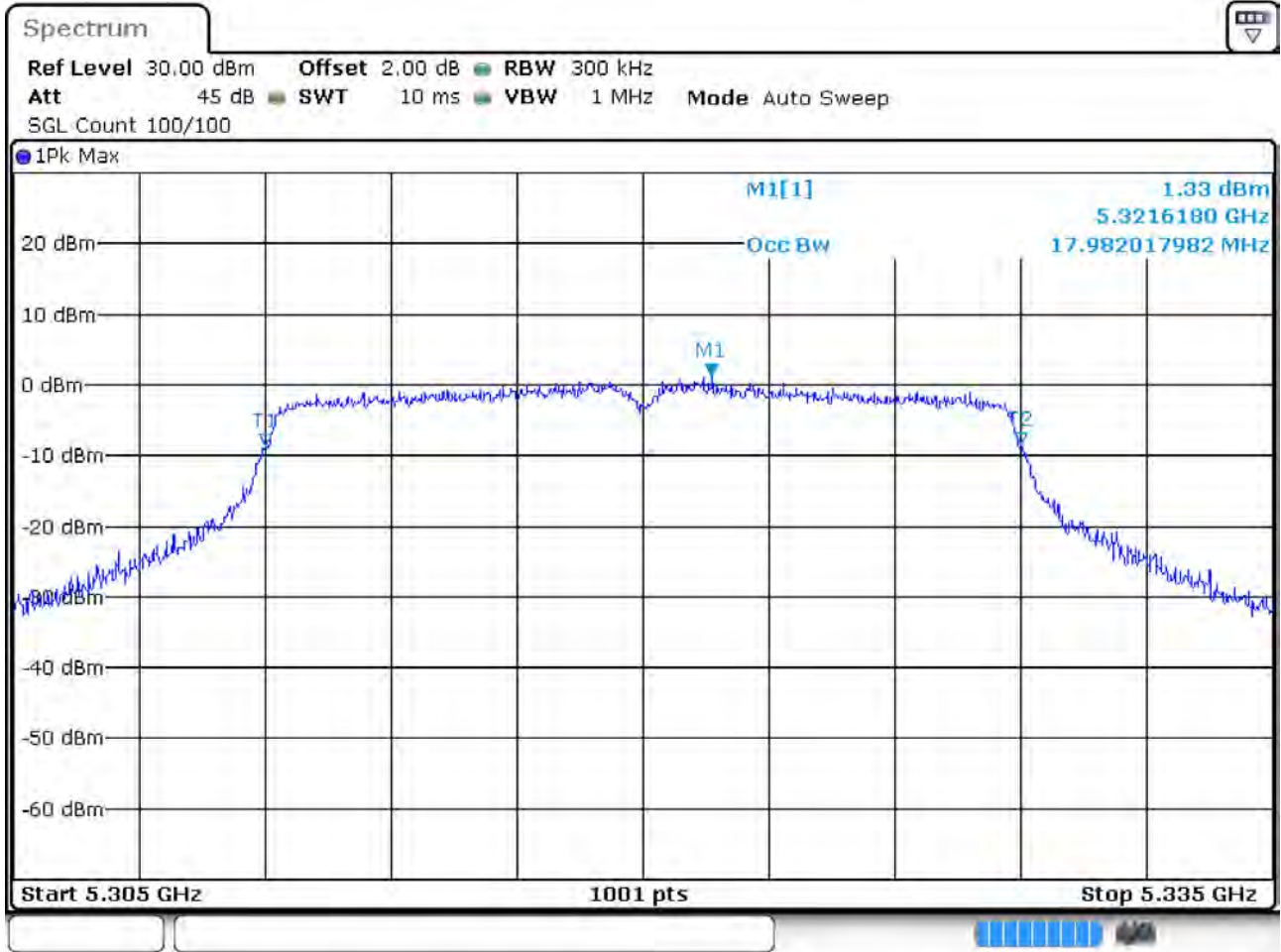
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4.7.2.87 11AC20_64 ANT 1

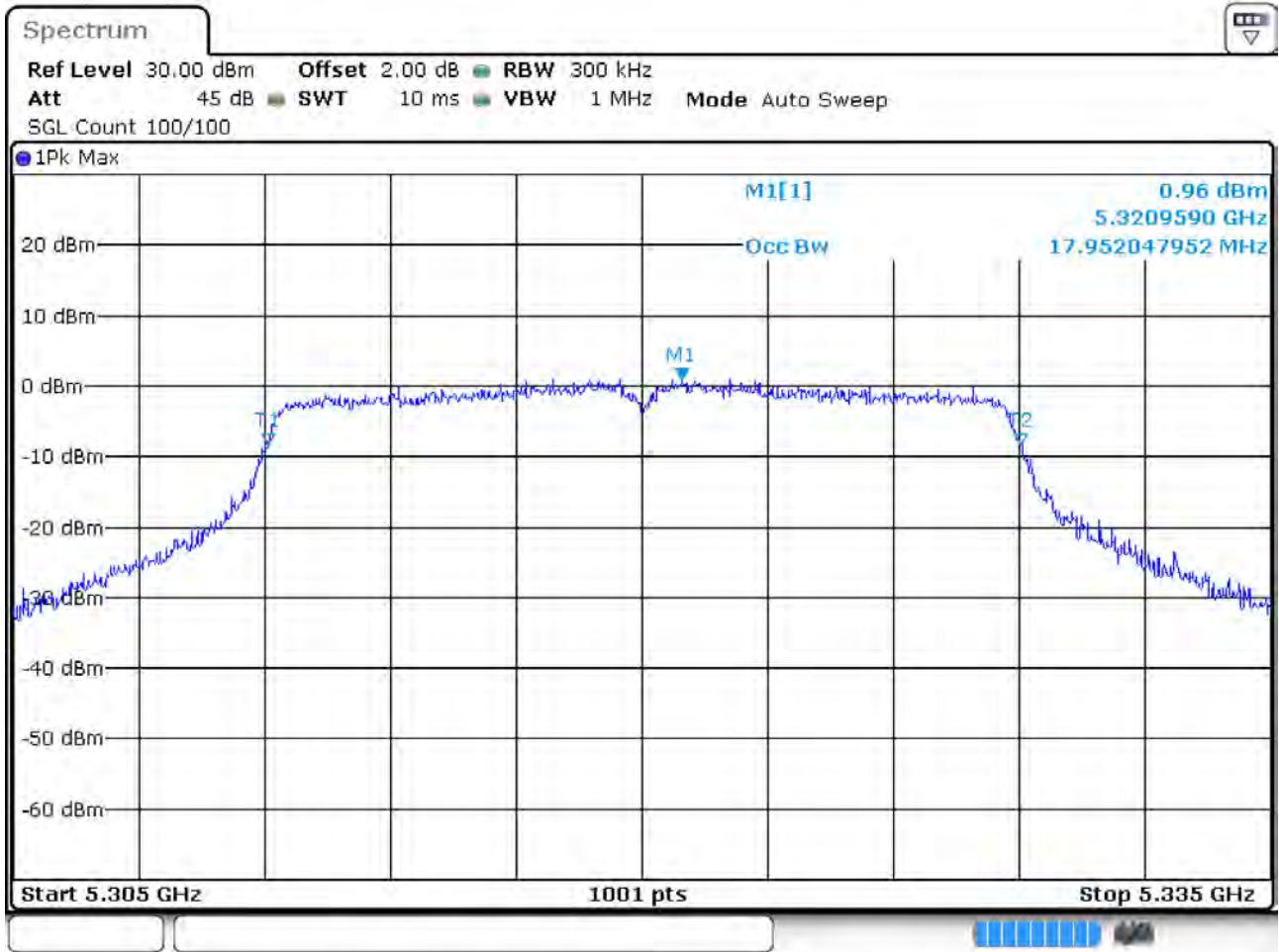


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4.7.2.88 11AC20_64 ANT 2



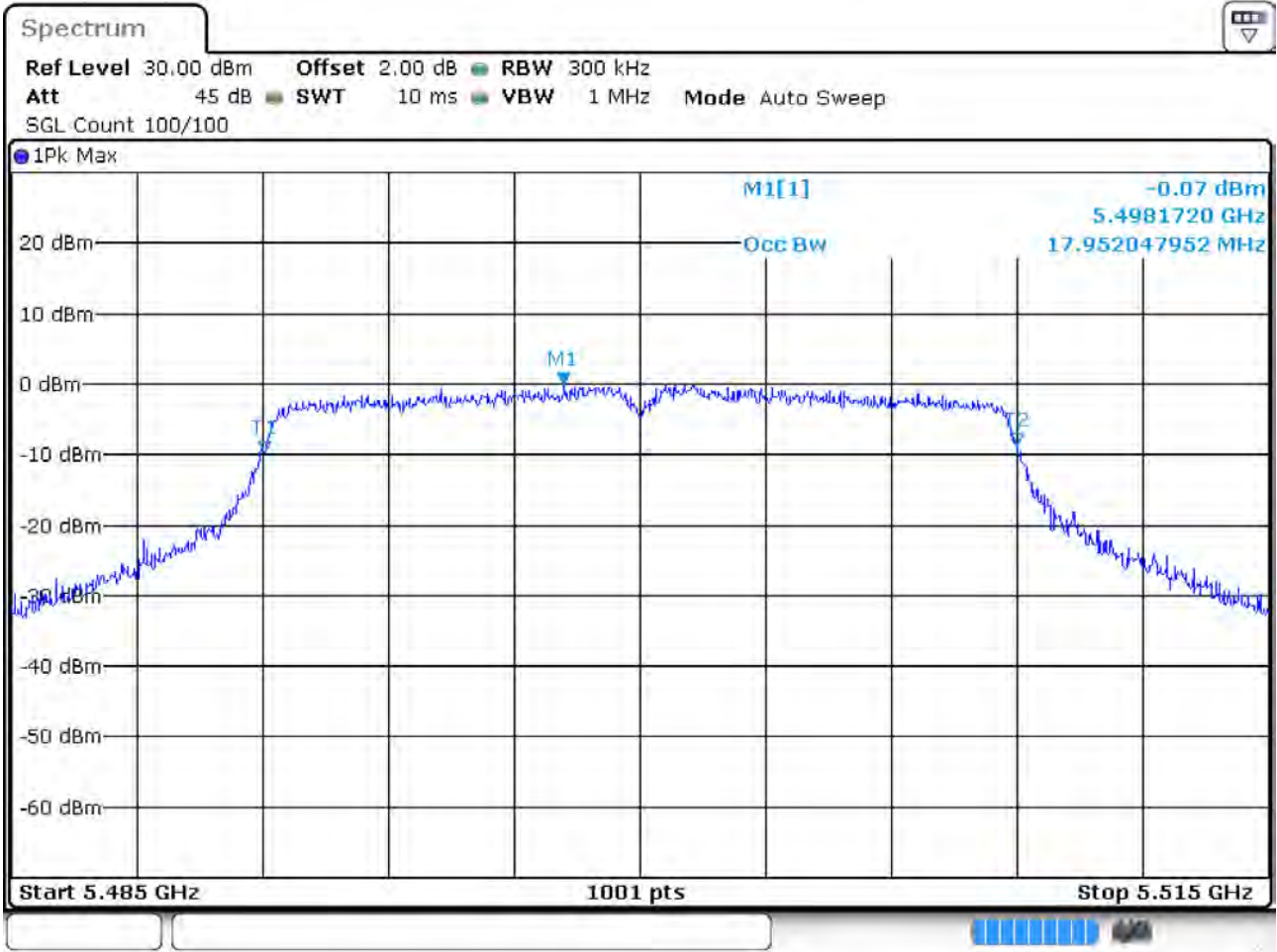
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4.7.2.89 11AC20_100 ANT 1

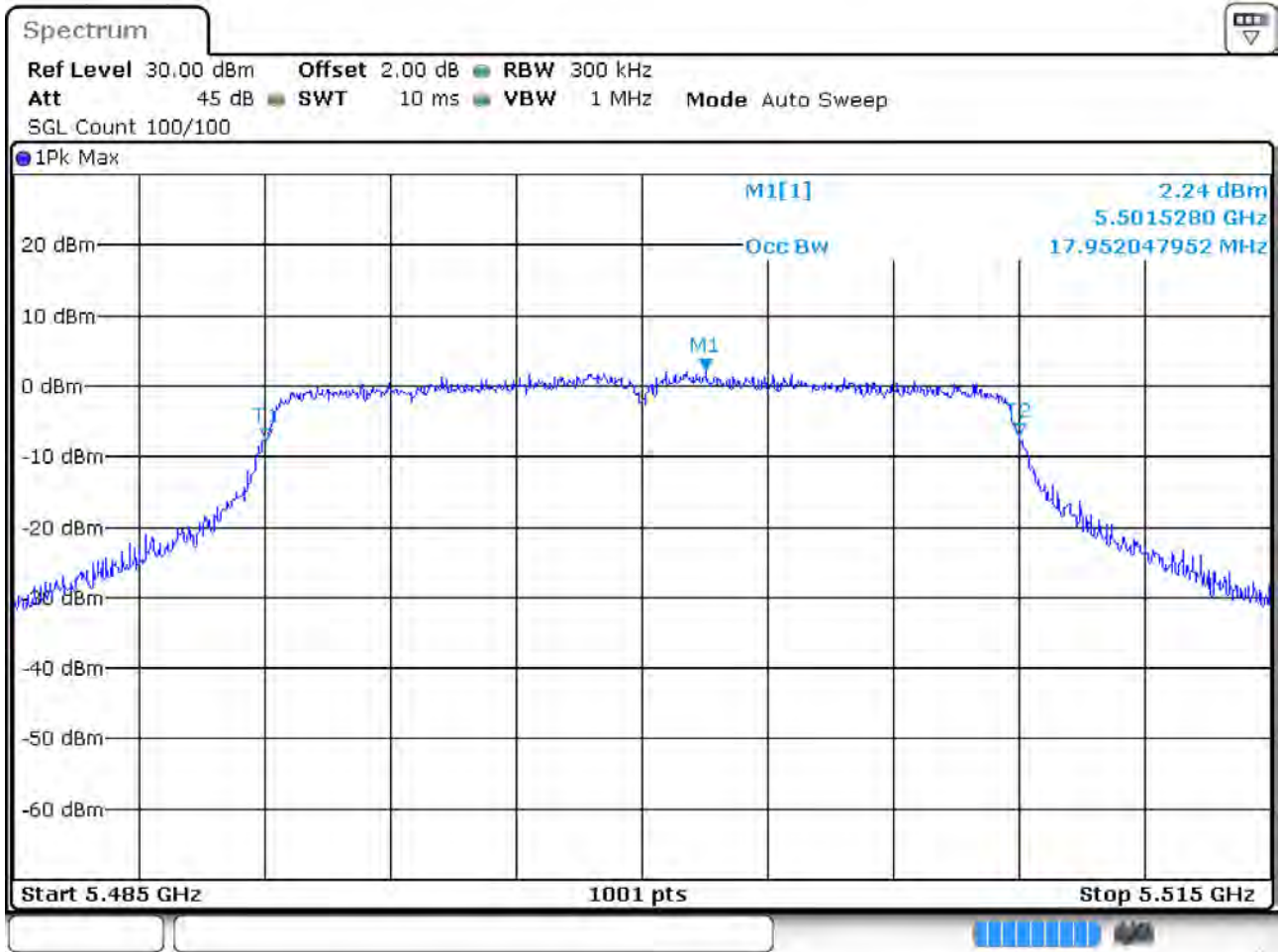


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4.7.2.90 11AC20_100 ANT 2



Date: 30 JUL 2019 01:28:33

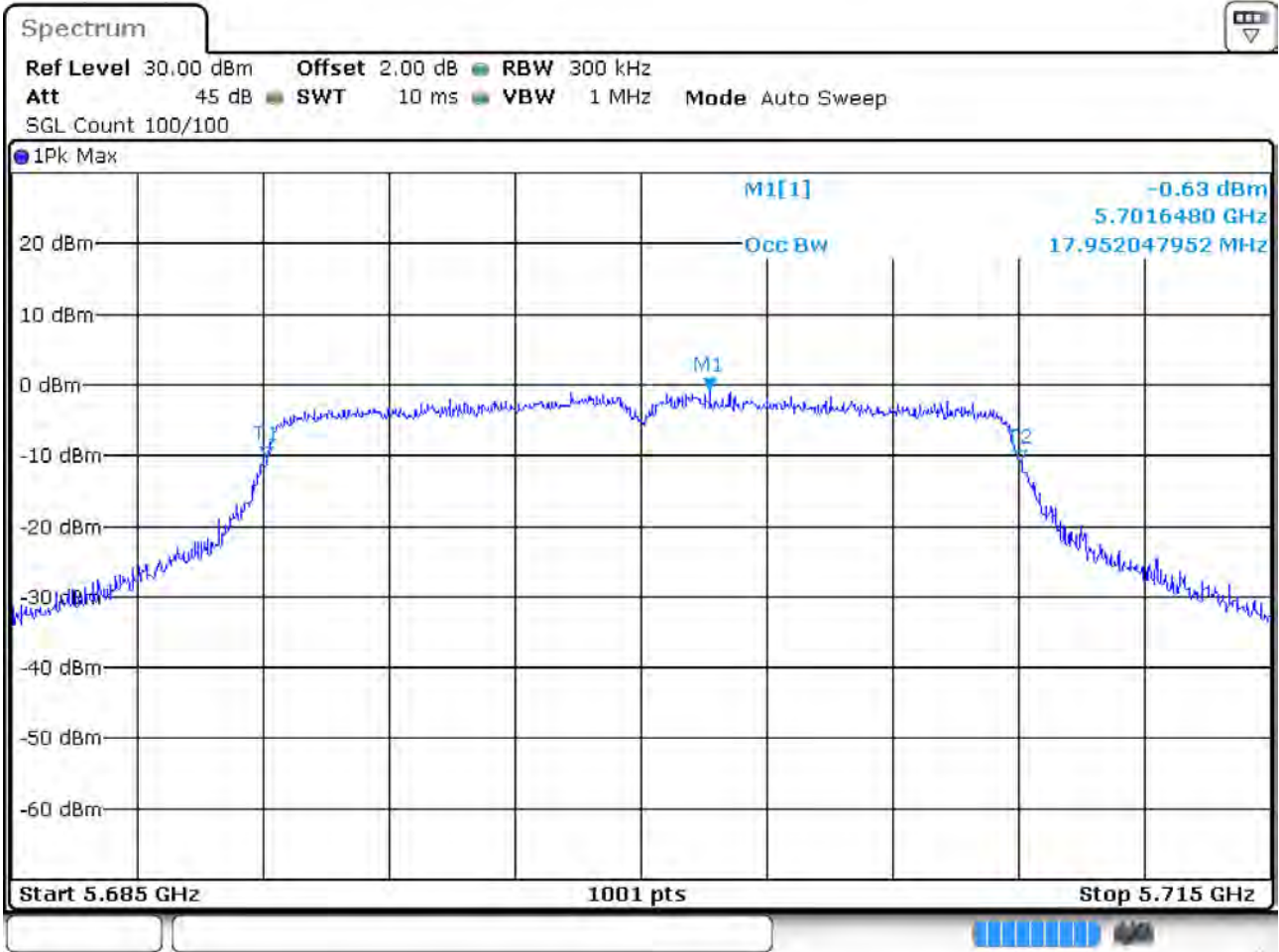


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4.7.2.91 11AC20_140 ANT 1



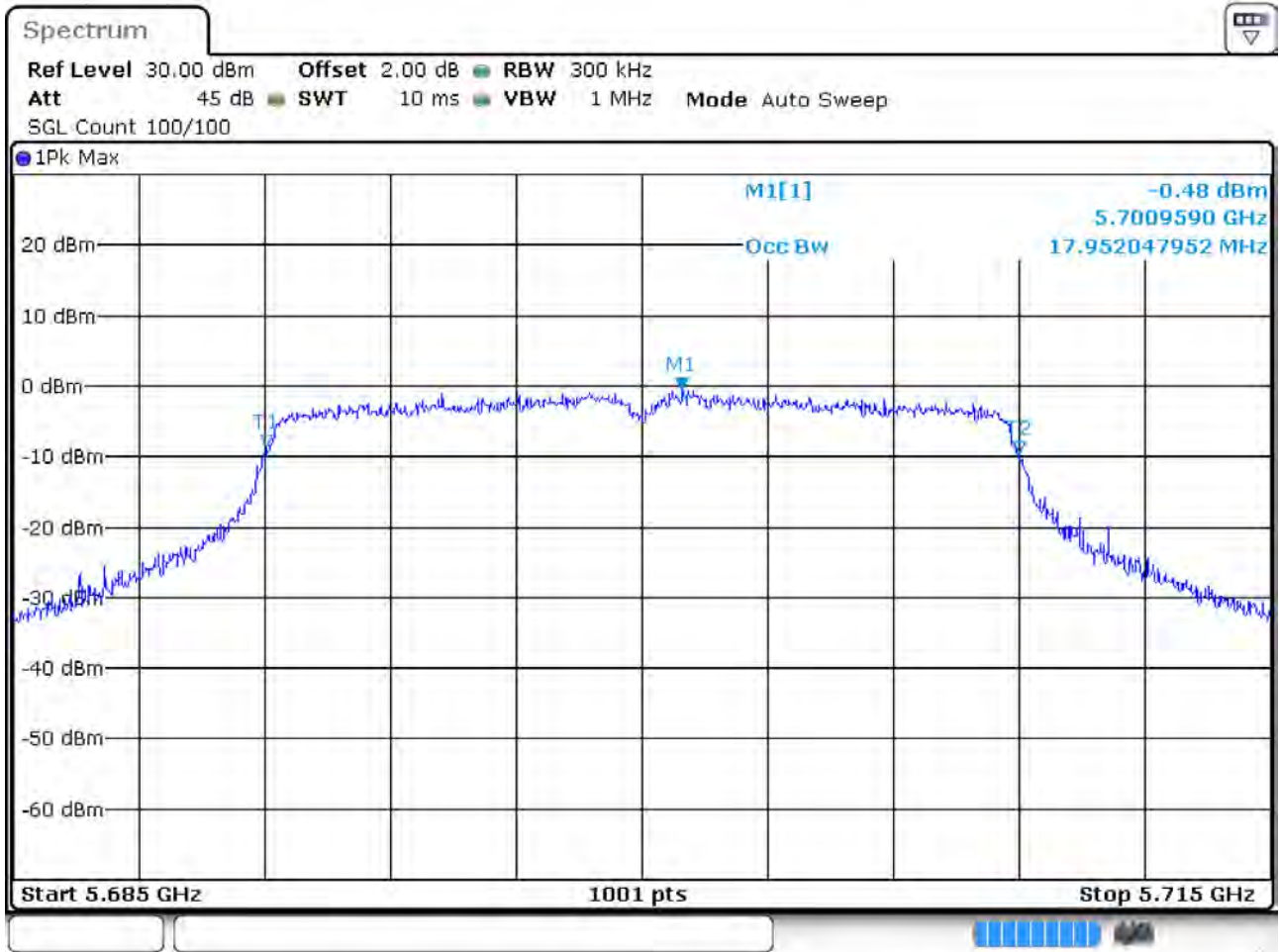
Date: 30 JUL 2019 00:53:08



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4.7.2.92 11AC20_140 ANT 2



Date: 30 JUL 2019 01:29:53

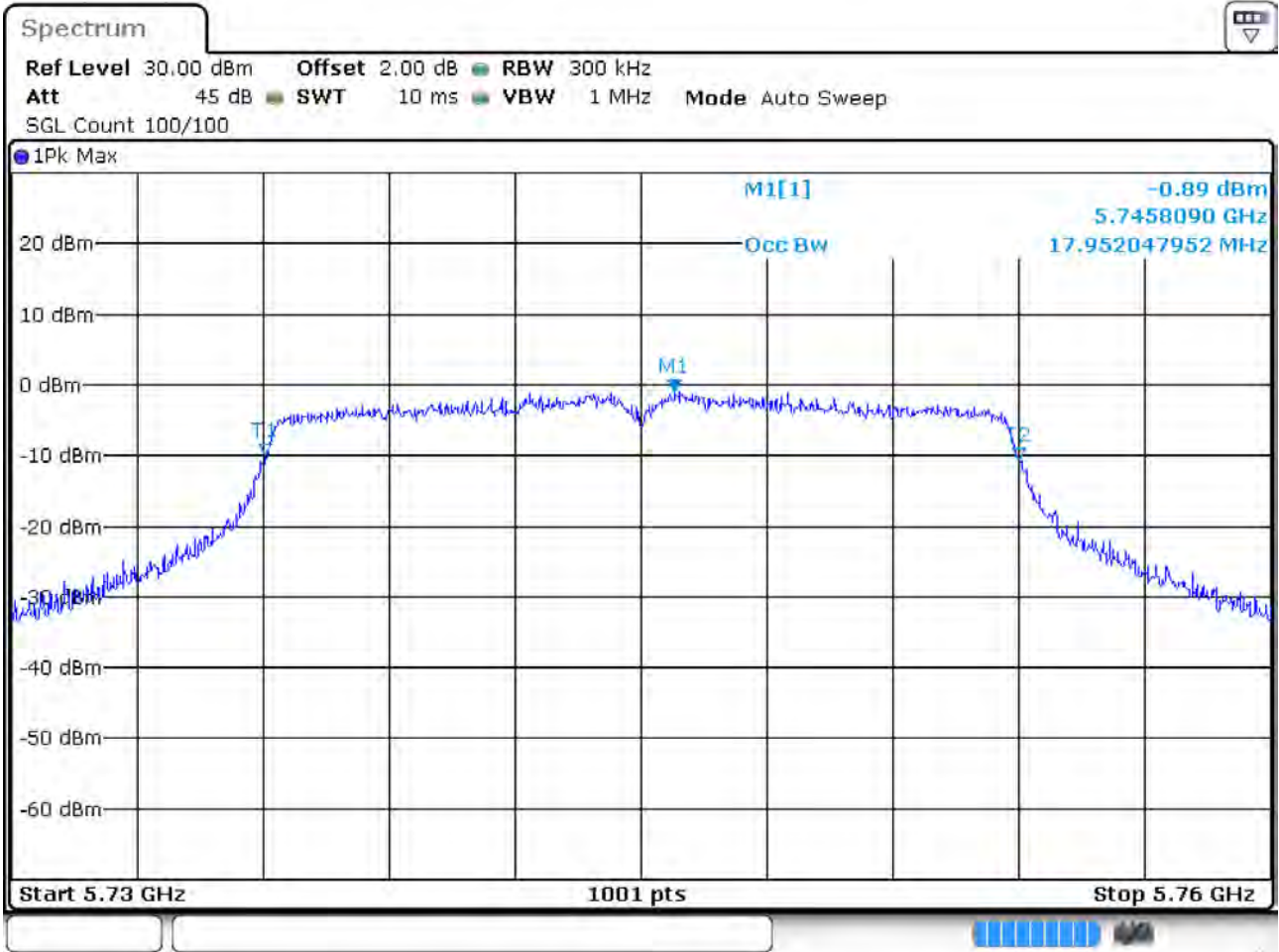


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4.7.2.93 11AC20_149 ANT 1



Date: 30 JUL 2019 01:09:19



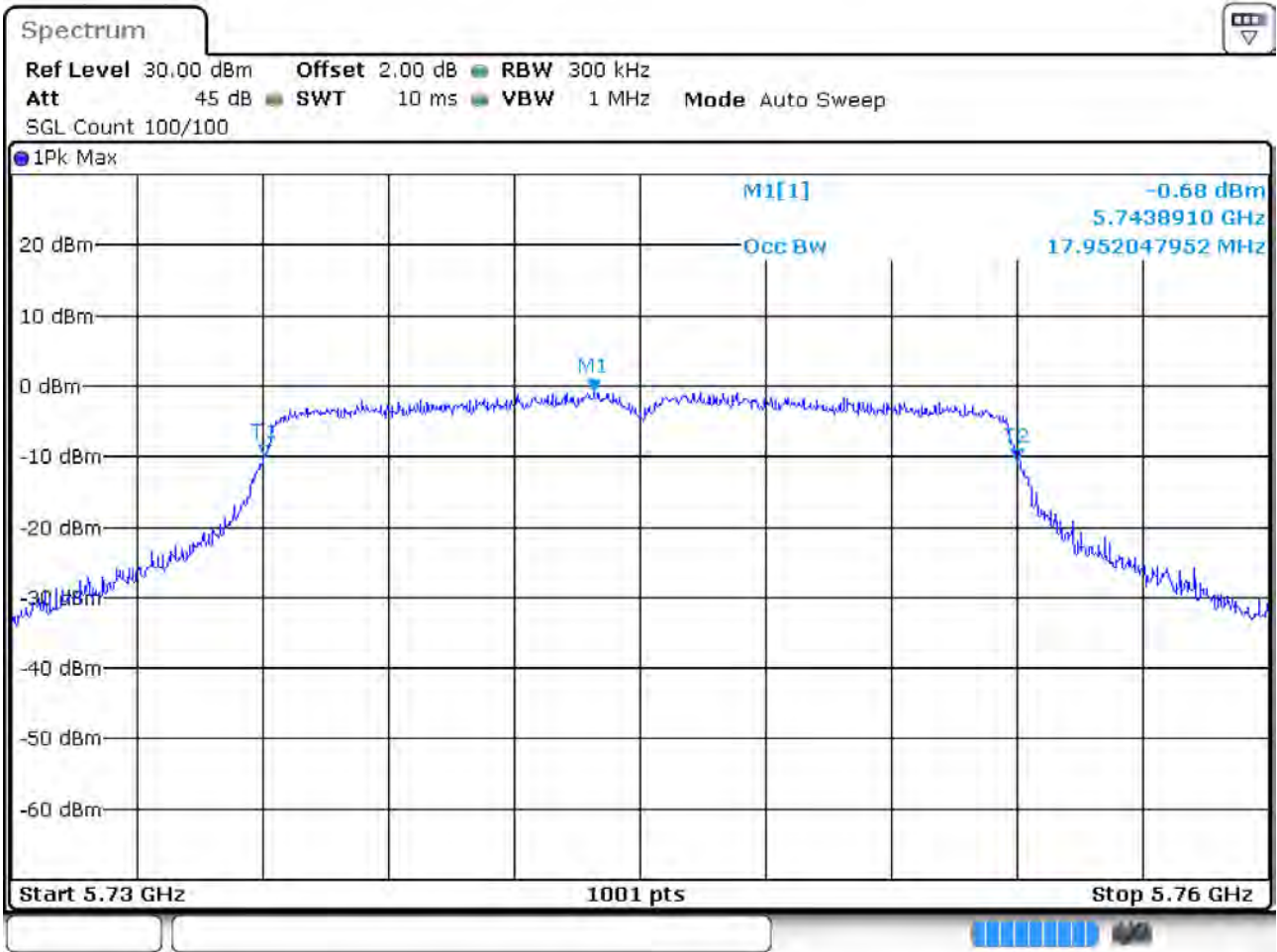
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4.7.2.94 11AC20_149 ANT 2

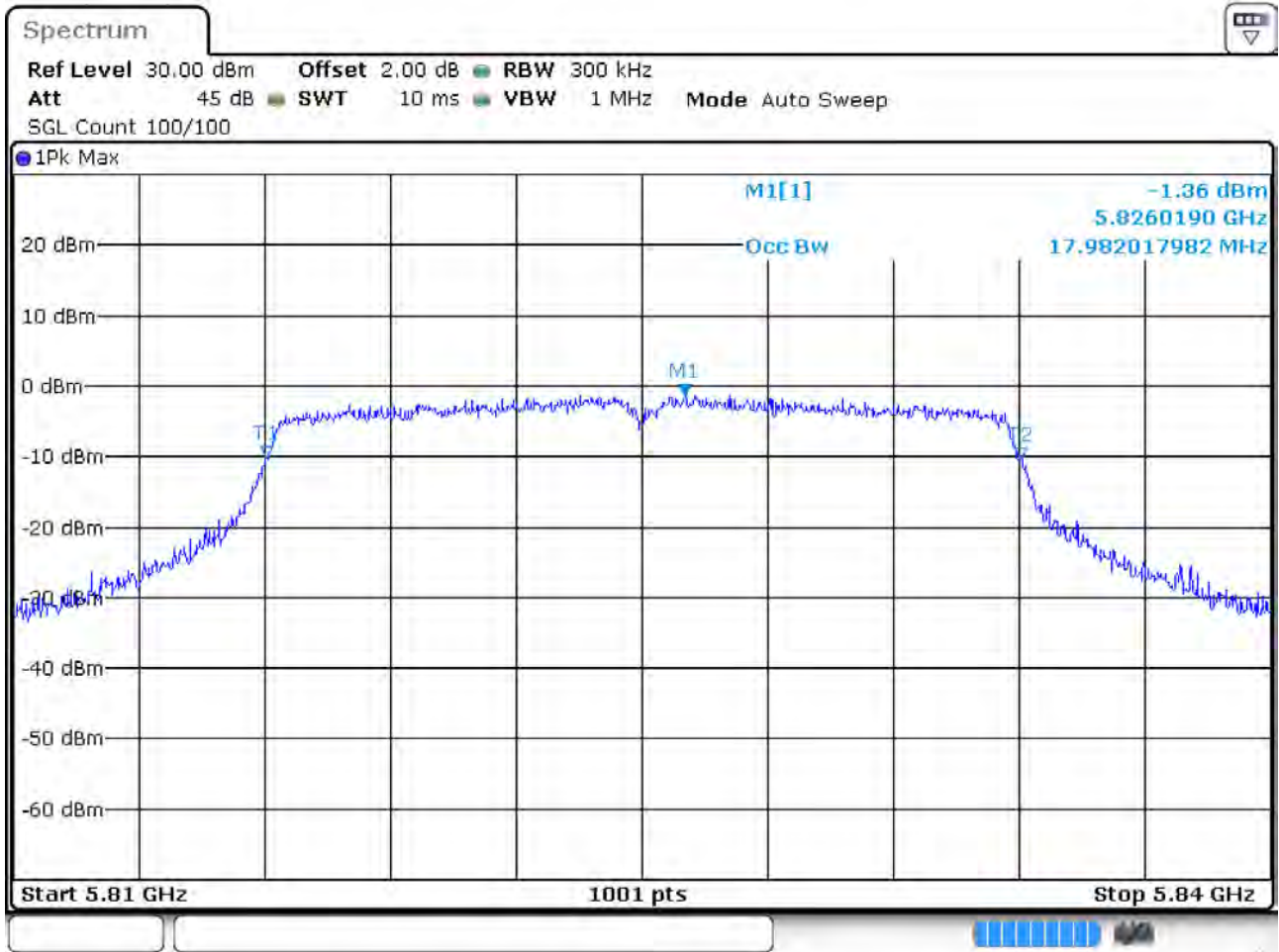


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4.7.2.95 11AC20_165 ANT 1



Date: 30 JUL 2019 01:15:23

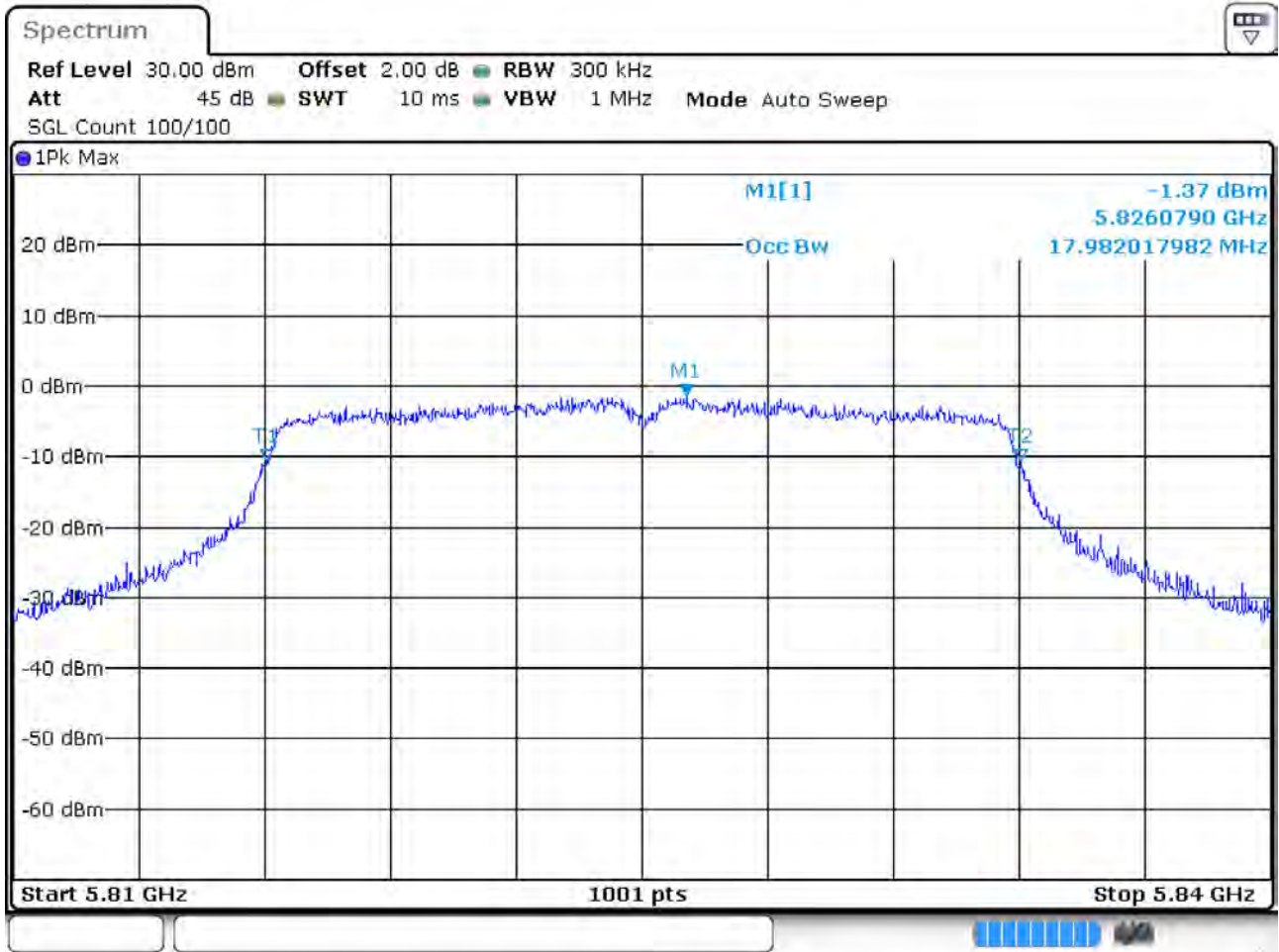


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4.7.2.96 11AC20_165 ANT 2

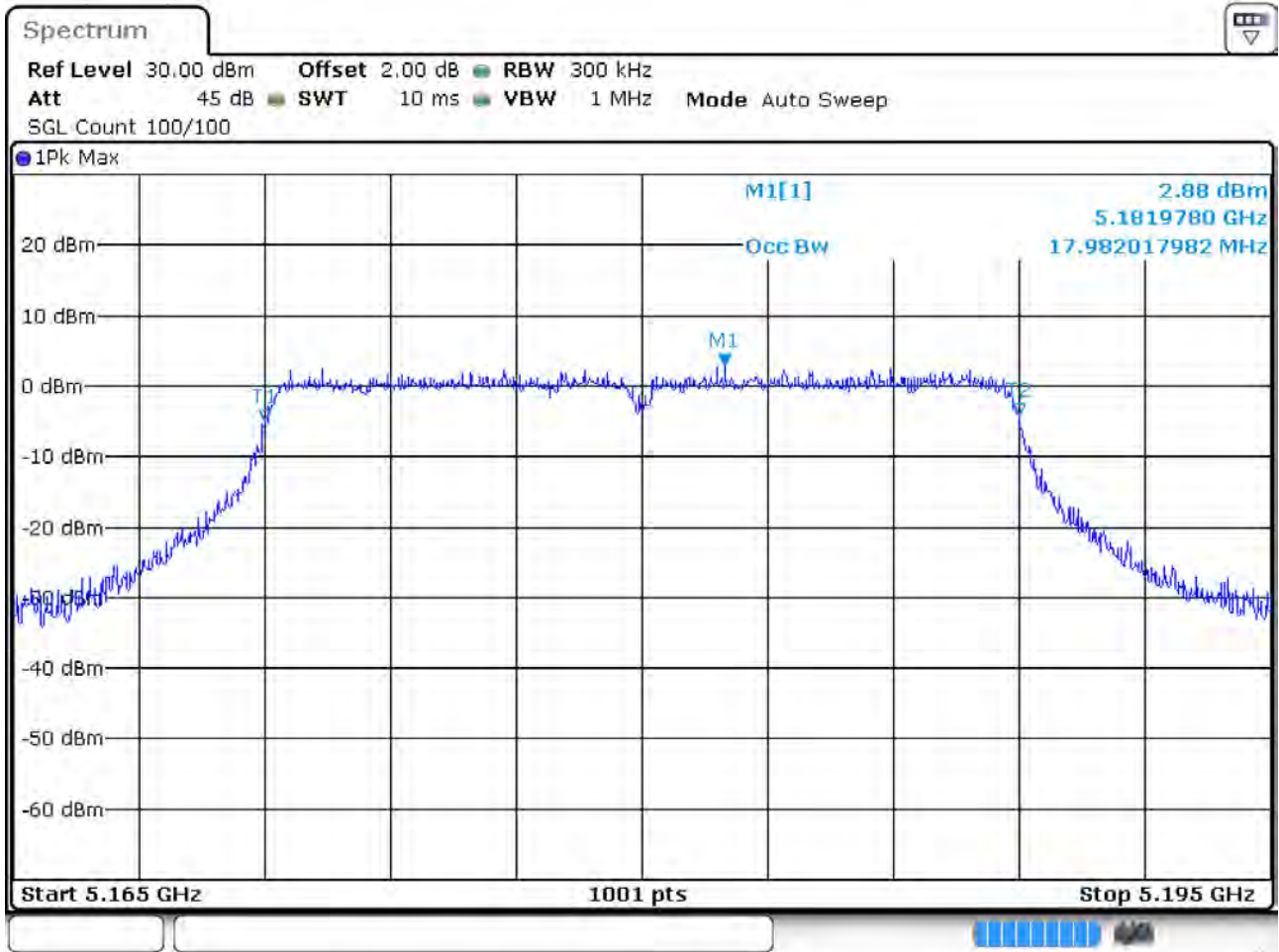


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4.7.2.97 11AC20MIMO_36 ANT 1

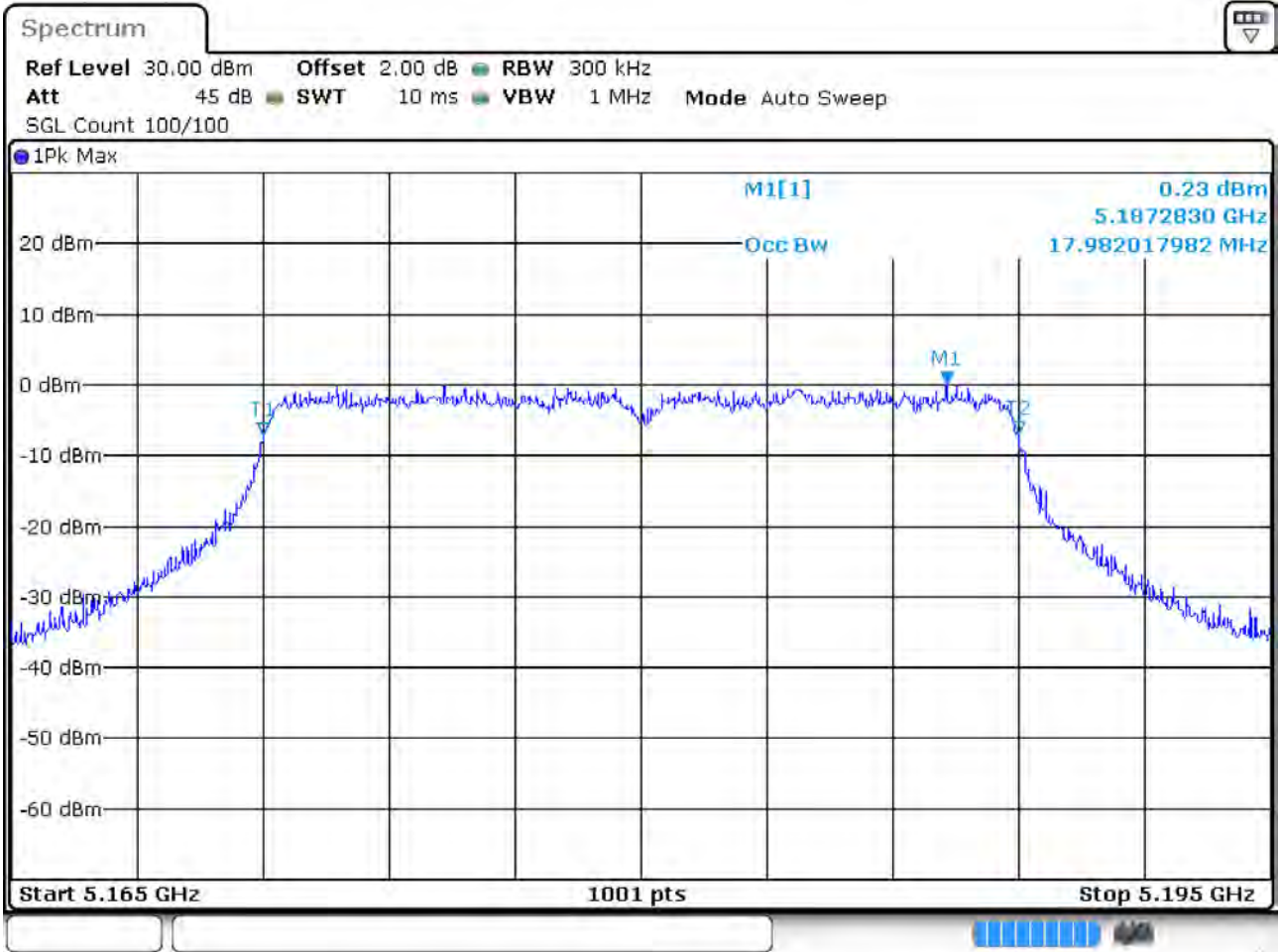


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4.7.2.98 11AC20MIMO_36 ANT 2



Date: 30 JUL 2019 19:38:49

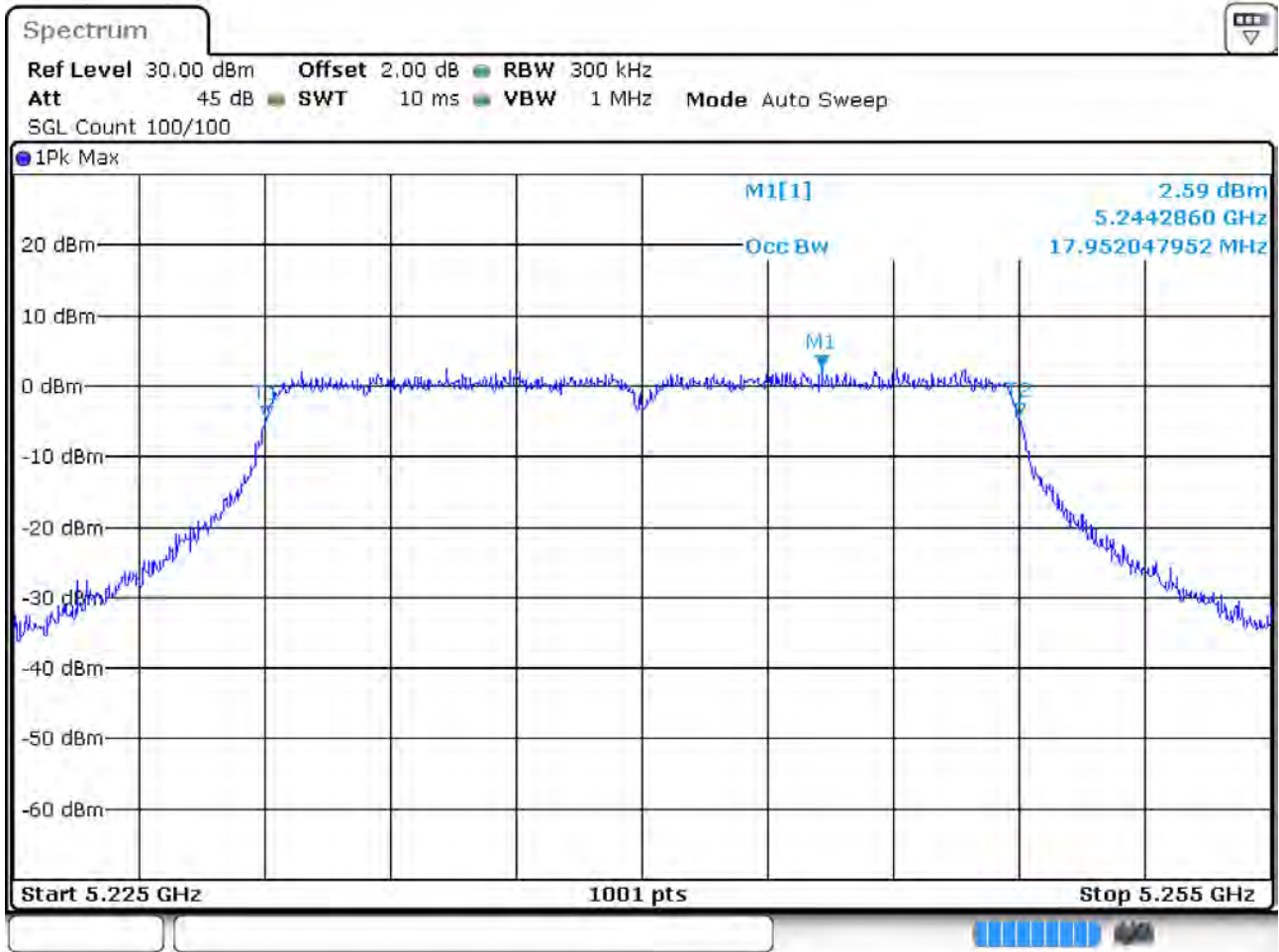


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4.7.2.99 11AC20MIMO_48 ANT 1

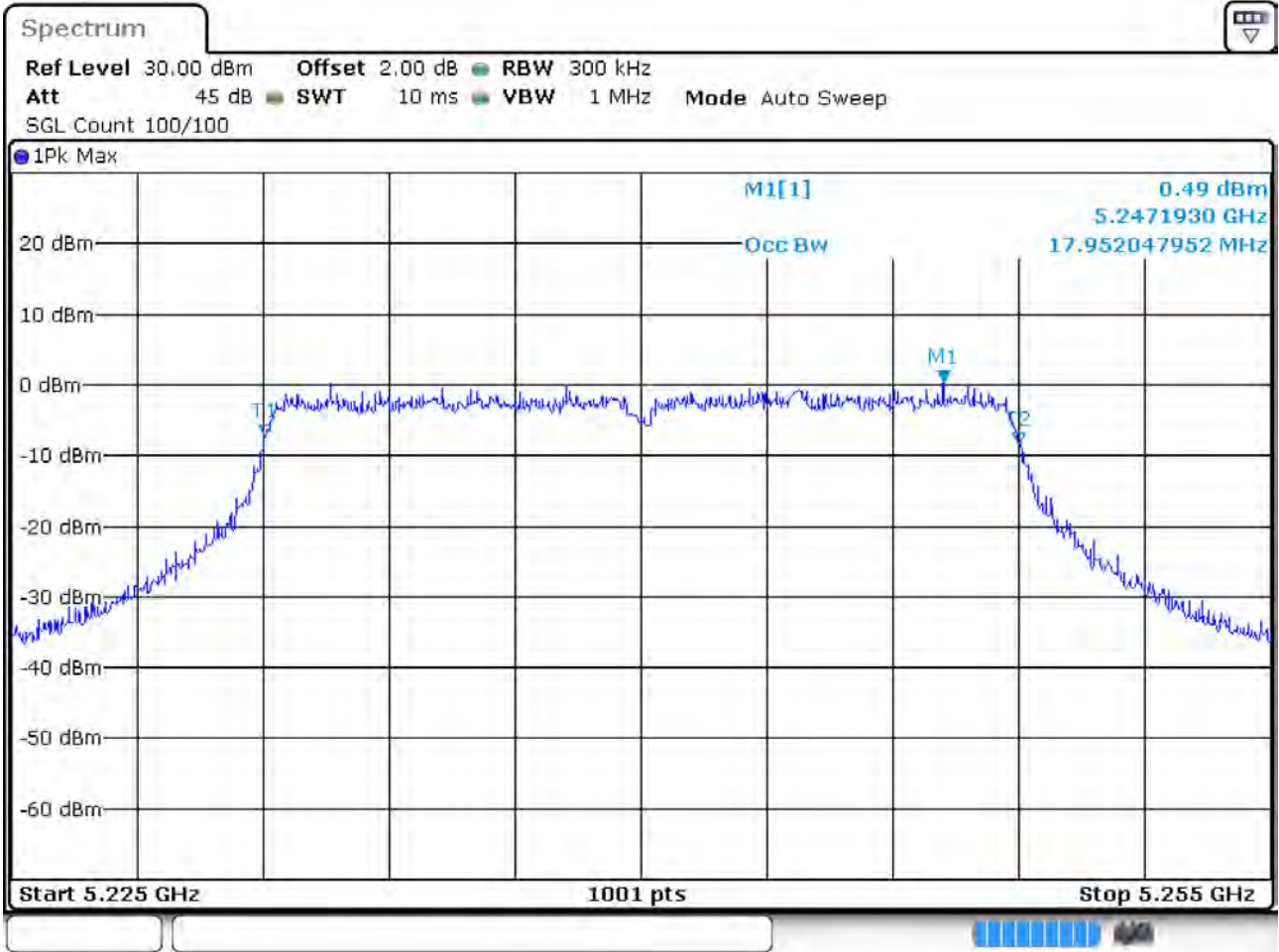


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4.7.2.100 11AC20MIMO_48 ANT 2



Date: 30 JUL 2019 19:40:33

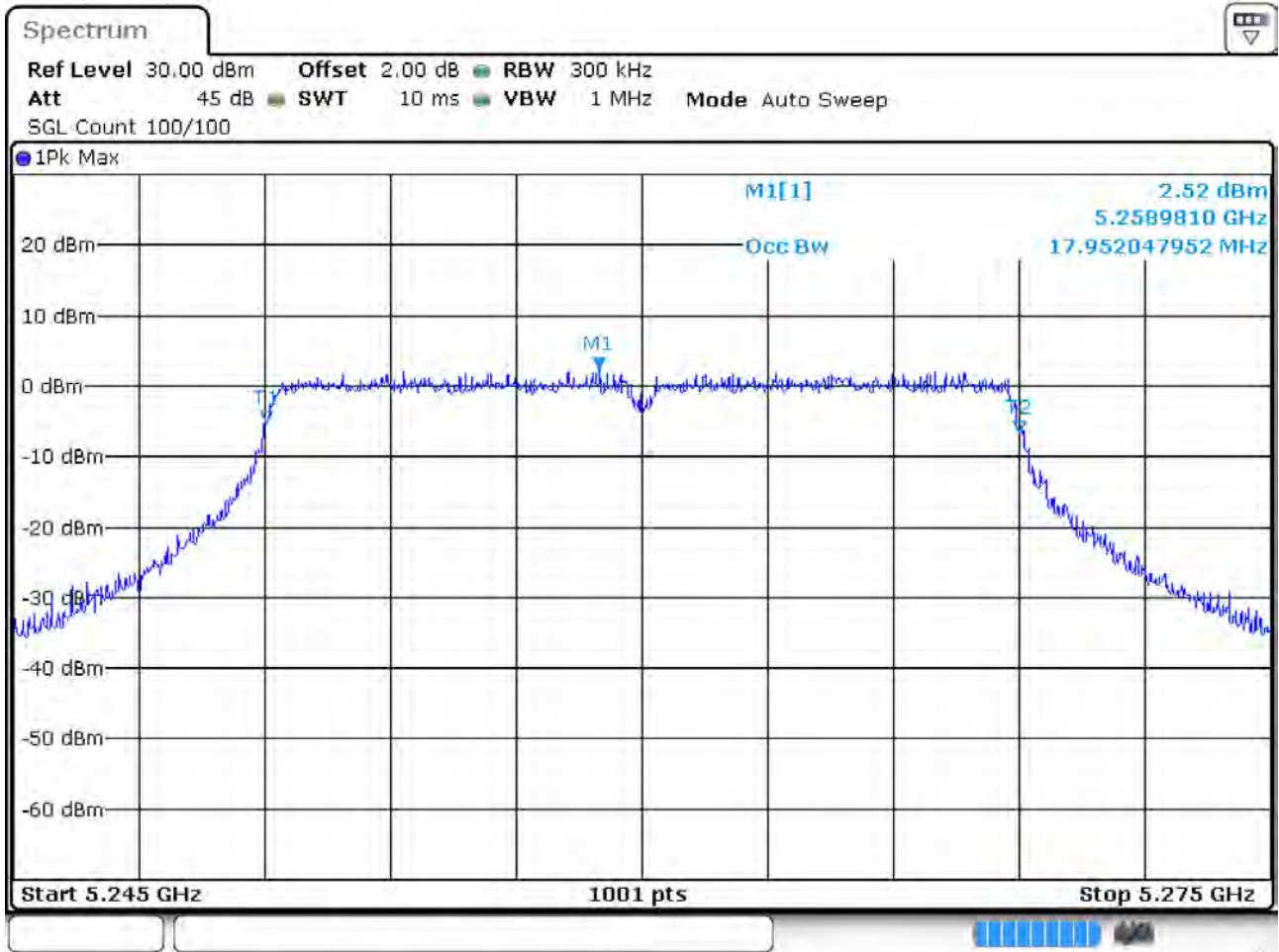


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4.7.2.101 11AC20MIMO_52 ANT 1



Date: 30 JUL 2019 07:10:47

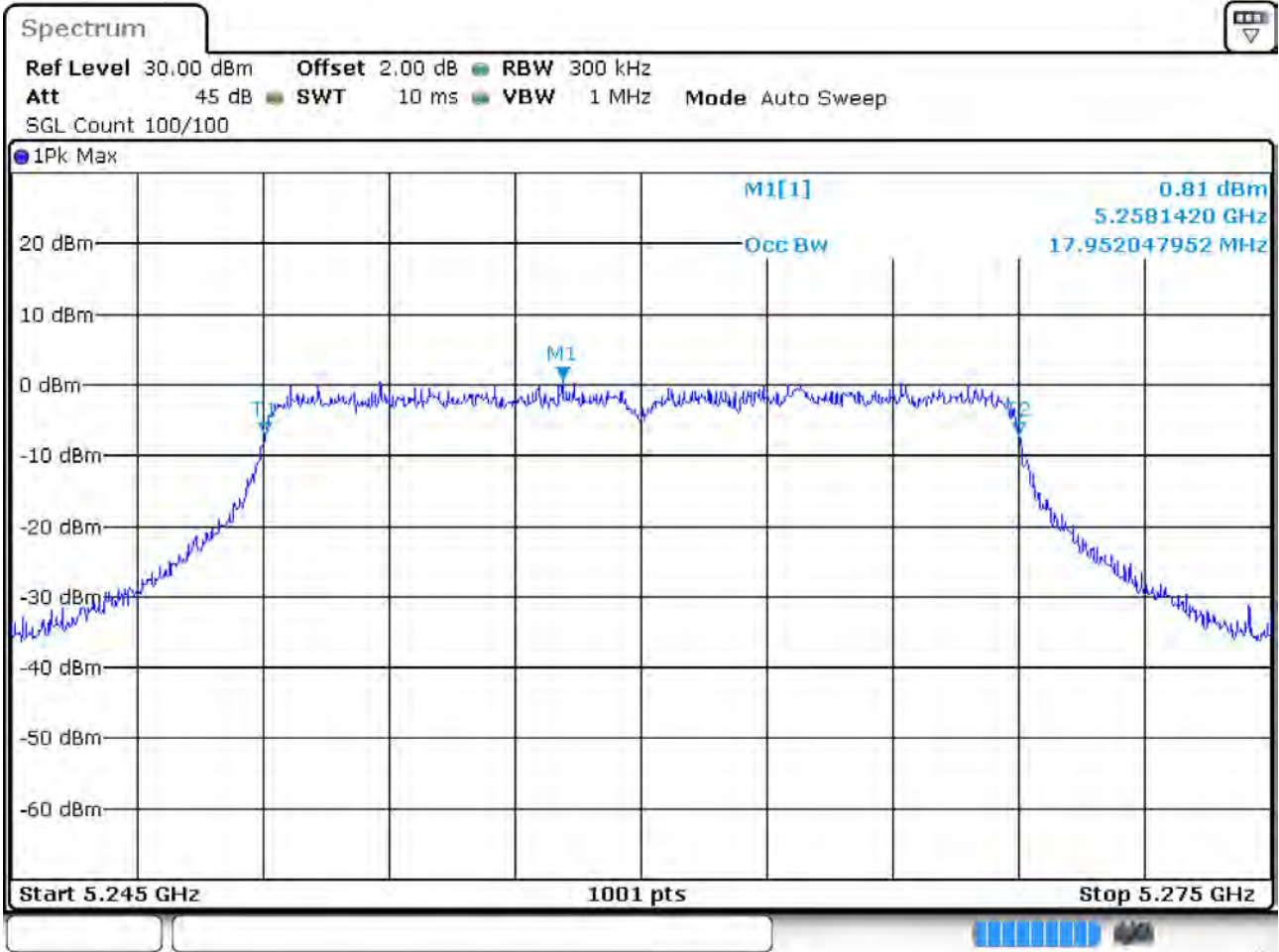


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4.7.2.102 11AC20MIMO_52 ANT 2

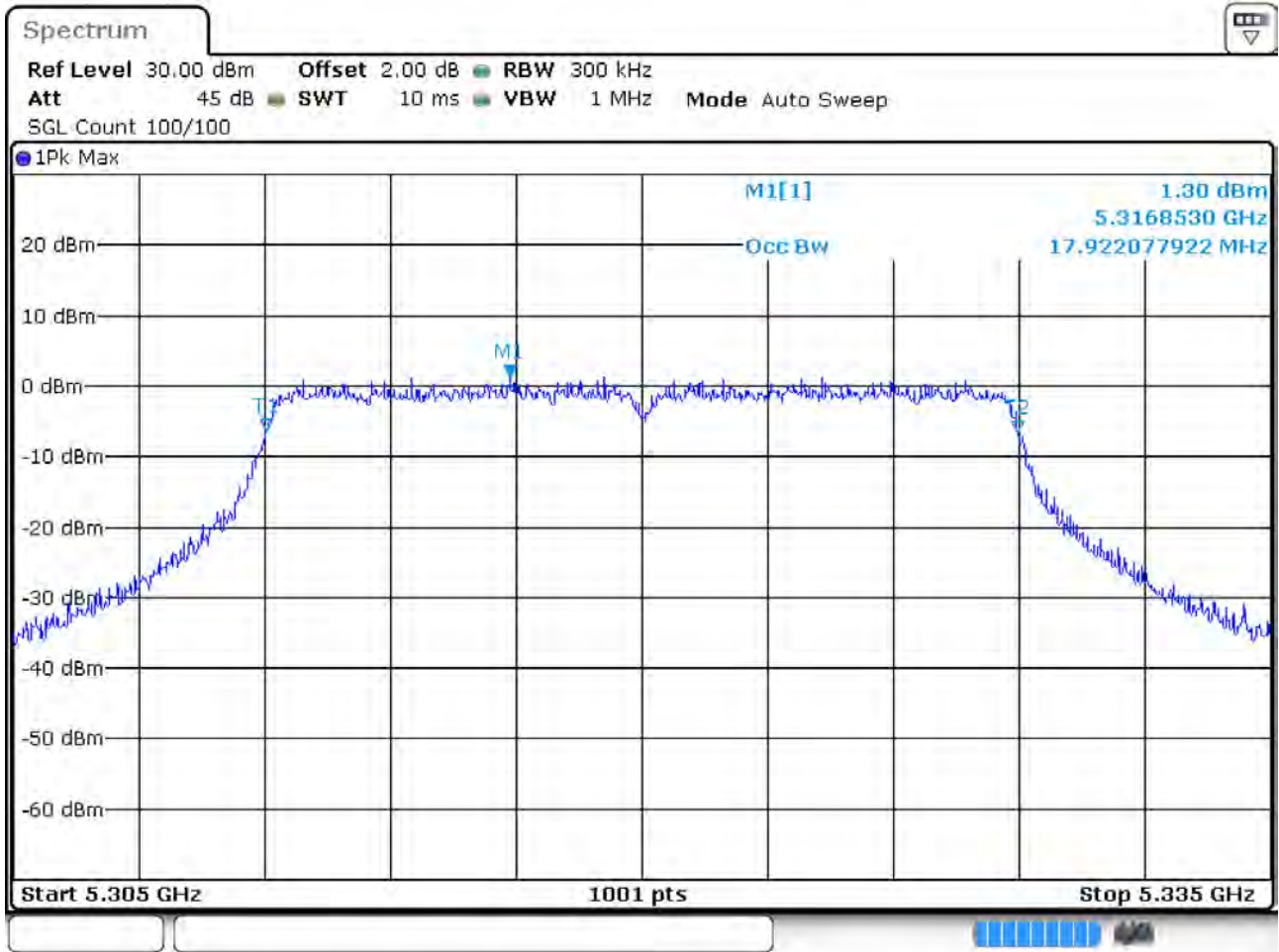


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4.7.2.103 11AC20MIMO_64 ANT 1



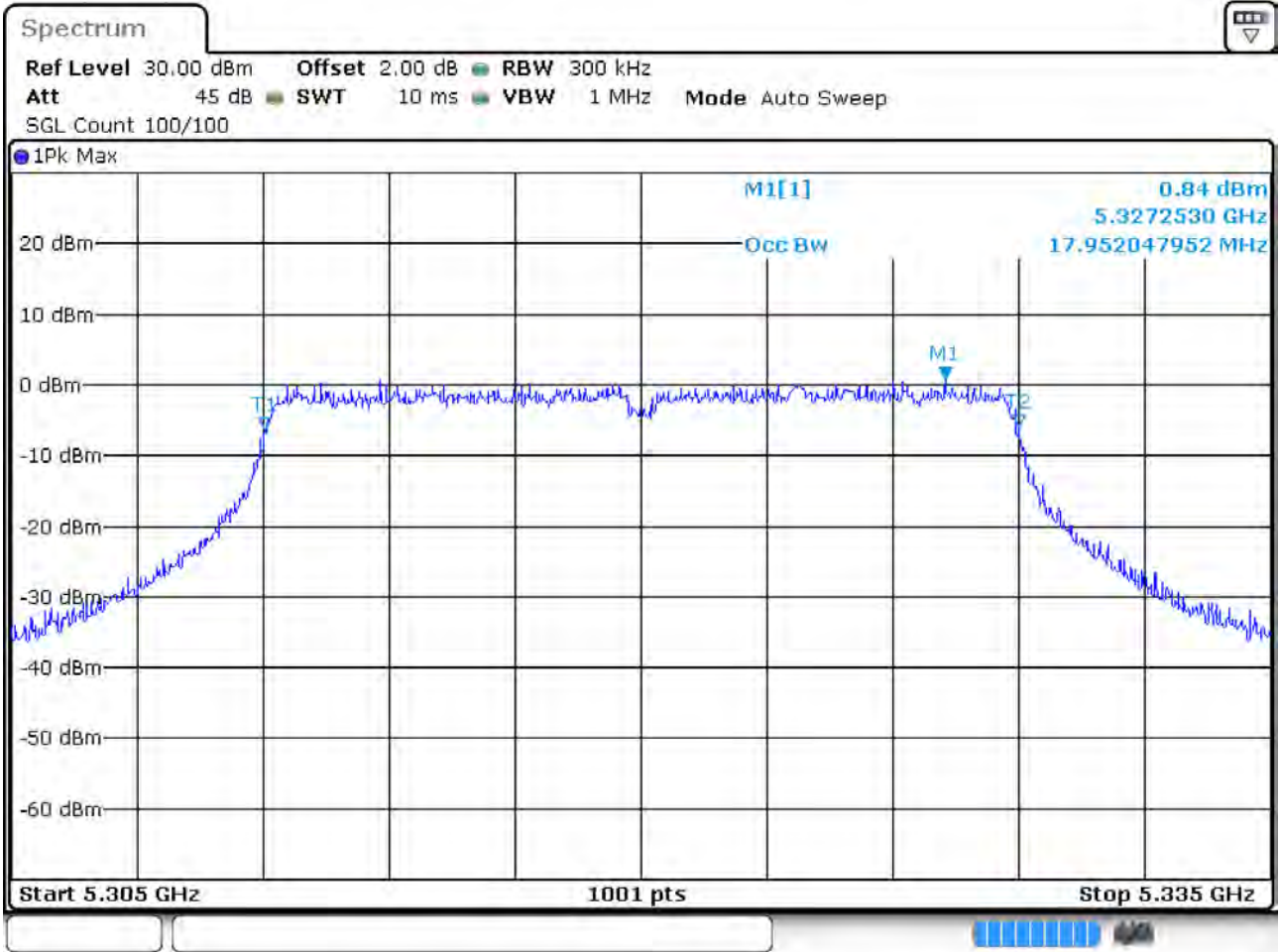
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4.7.2.104 11AC20MIMO_64 ANT 2

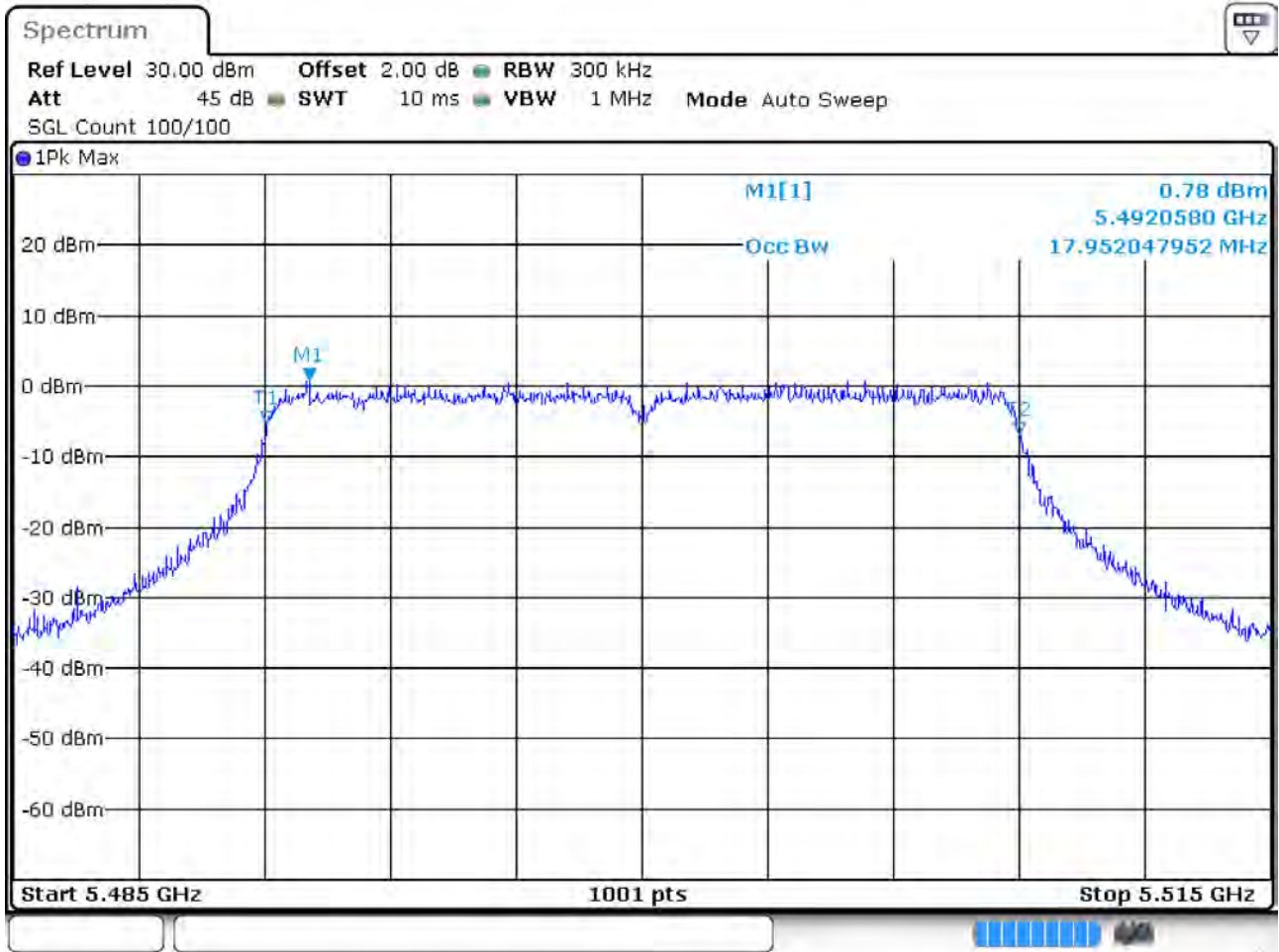


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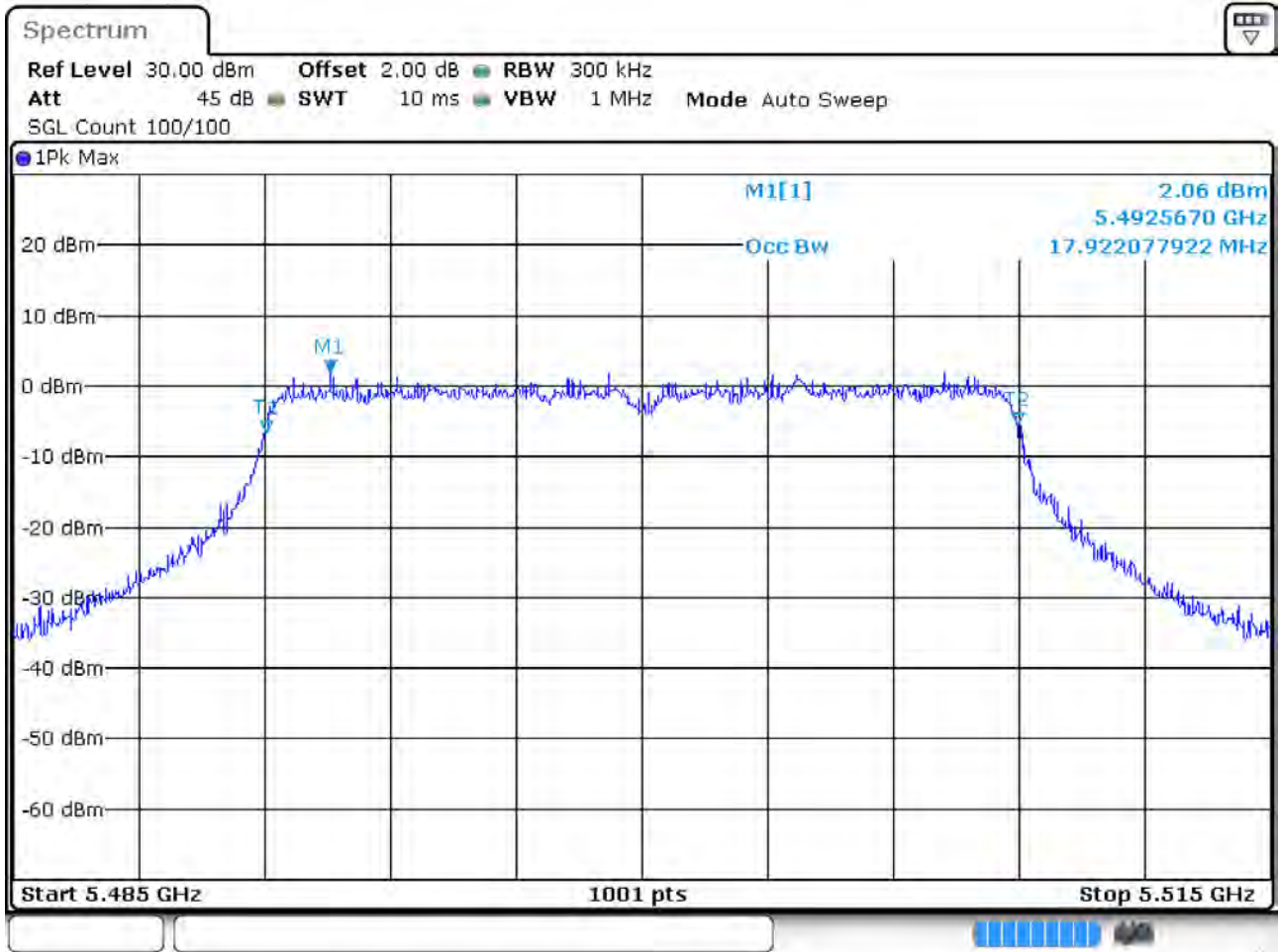
4.7.2.105 11AC20MIMO_100 ANT 1



Date: 30 JUL 2019 07:14:29



4.7.2.106 11AC20MIMO_100 ANT 2

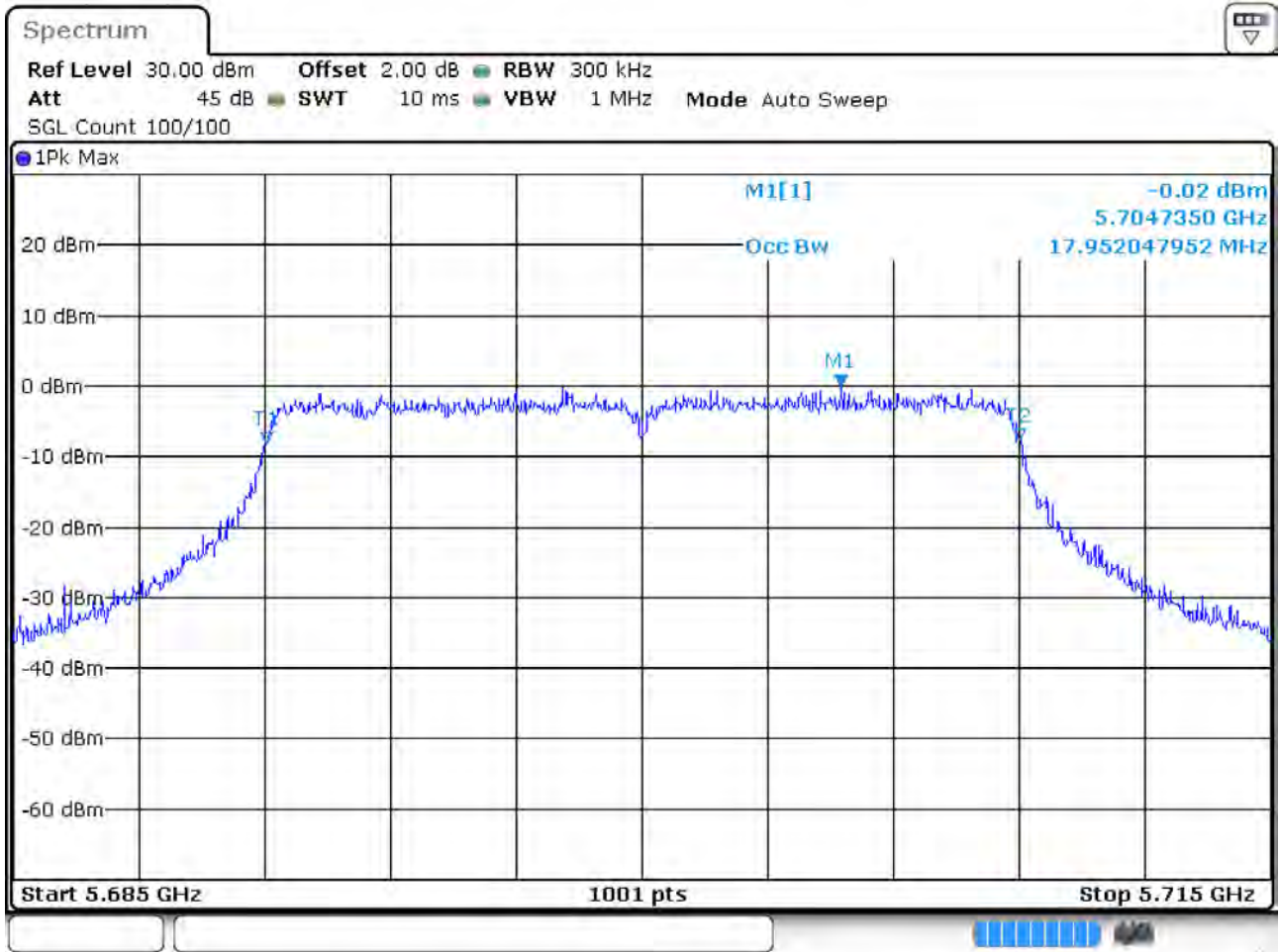


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4.7.2.107 11AC20MIMO_140 ANT 1

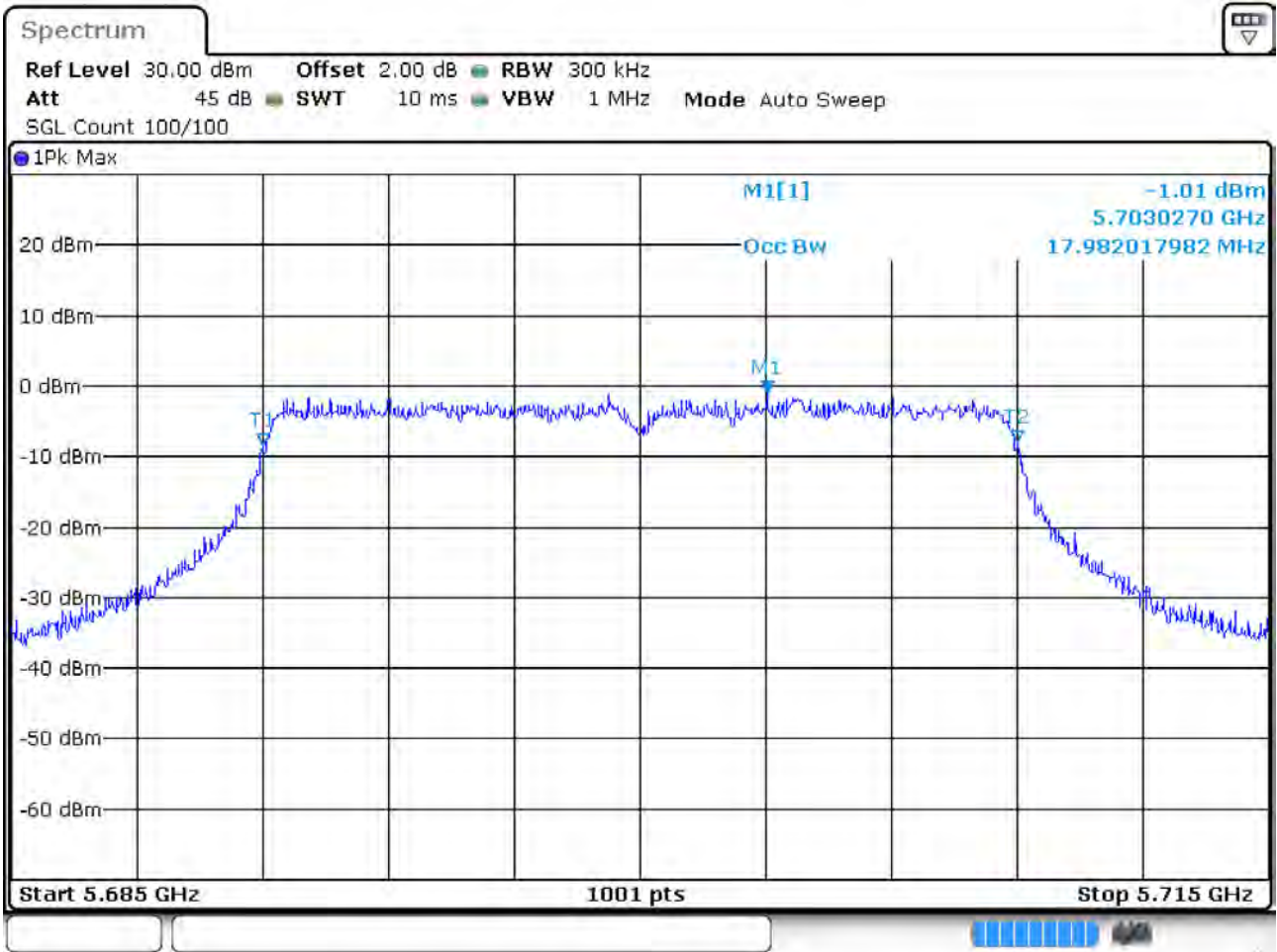


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4.7.2.108 11AC20MIMO_140 ANT 2

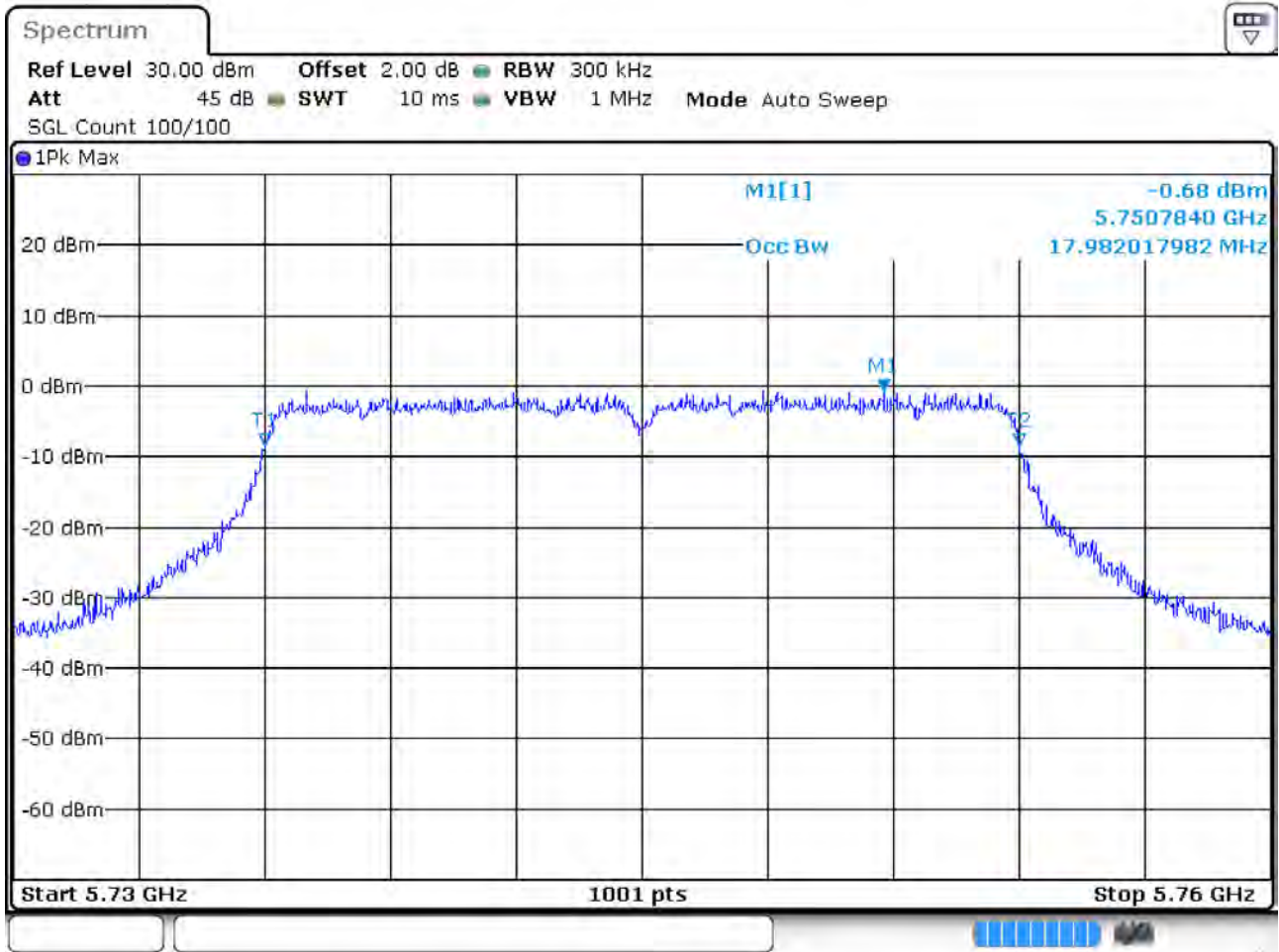


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4.7.2.109 11AC20MIMO_149 ANT 1

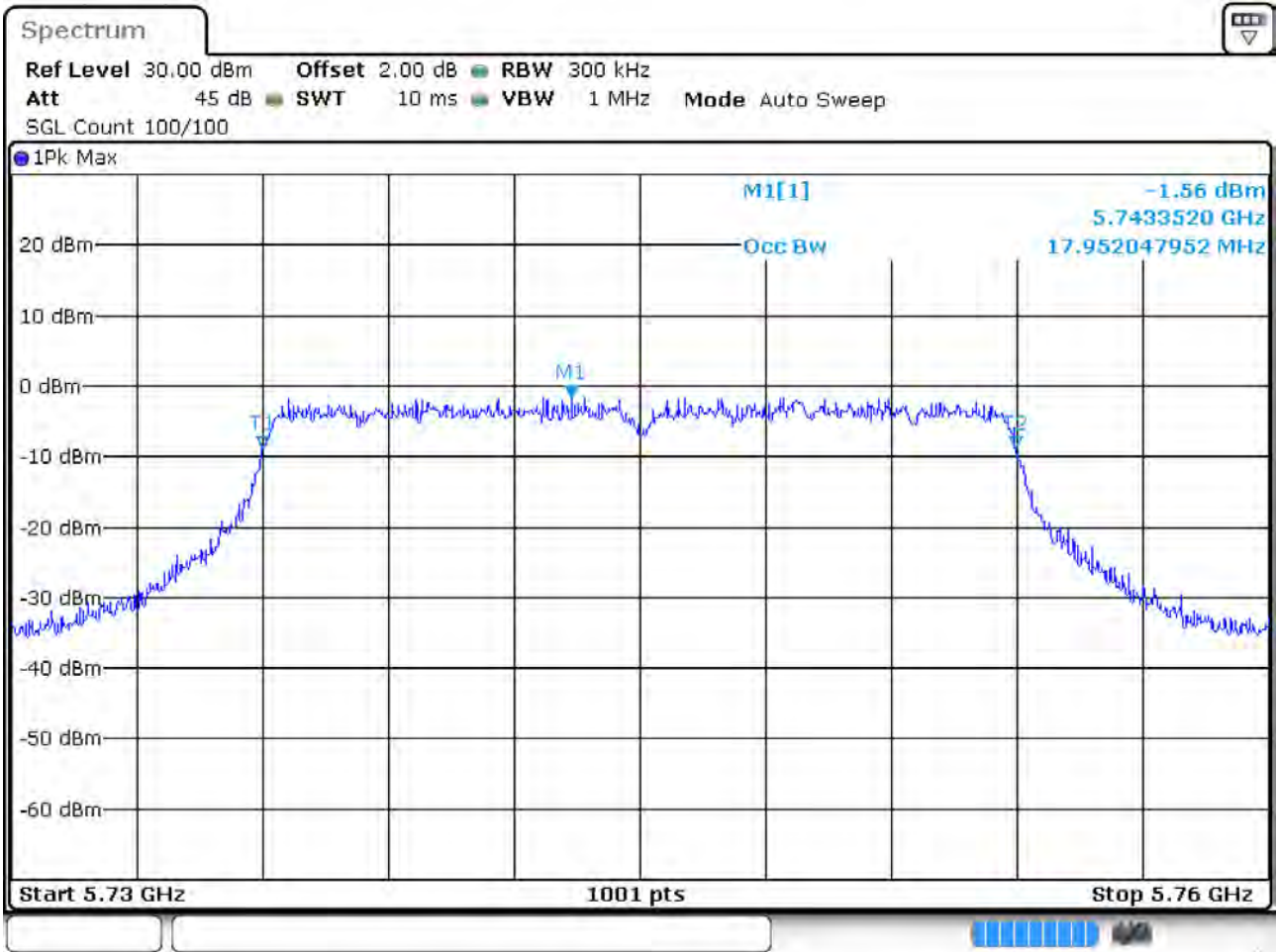


Date: 30 JUL 2019 07:18:22



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4.7.2.110 11AC20MIMO_149 ANT 2

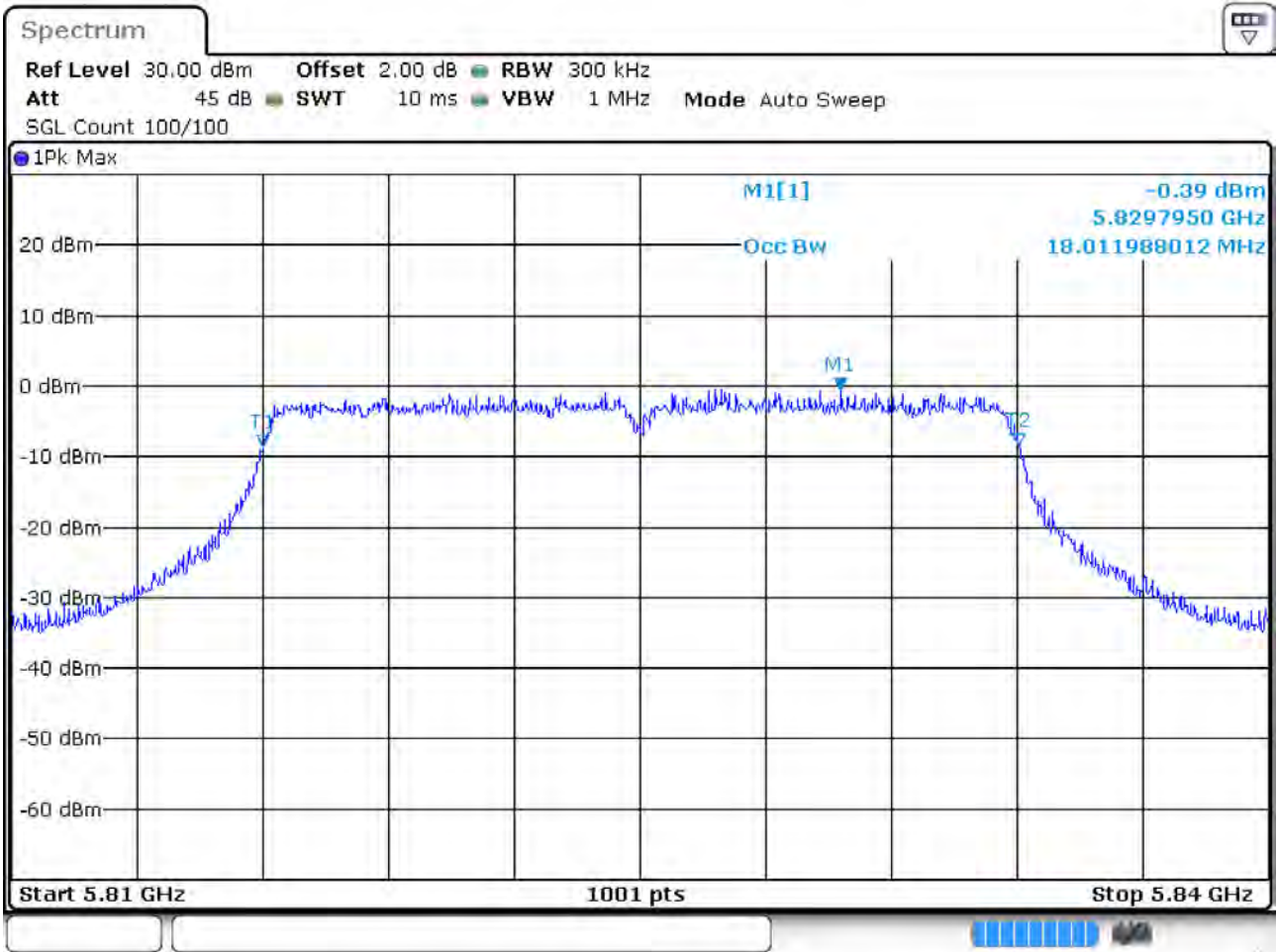


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4.7.2.111 11AC20MIMO_165 ANT 1

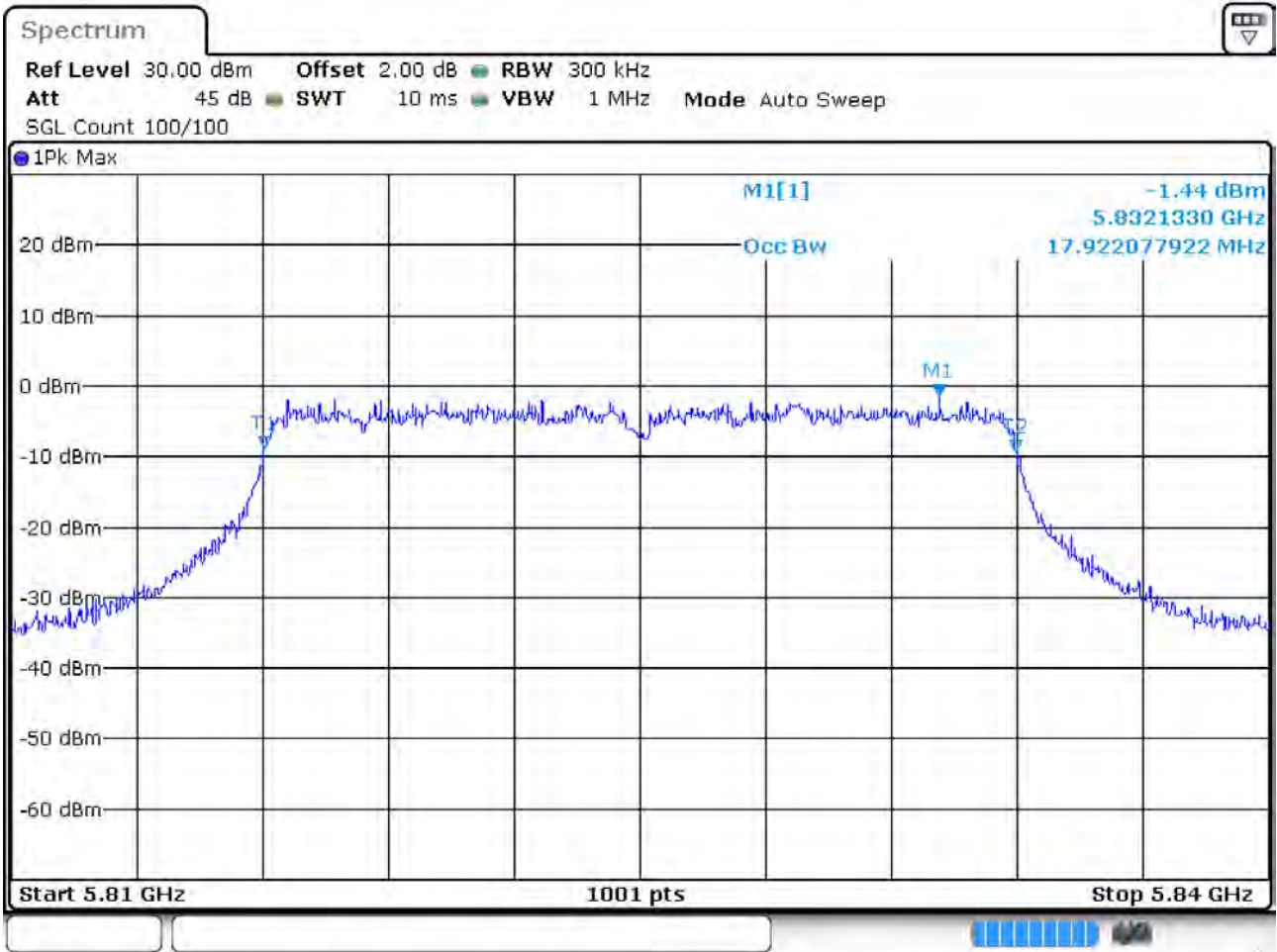


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4.7.2.112 11AC20MIMO_165 ANT 2

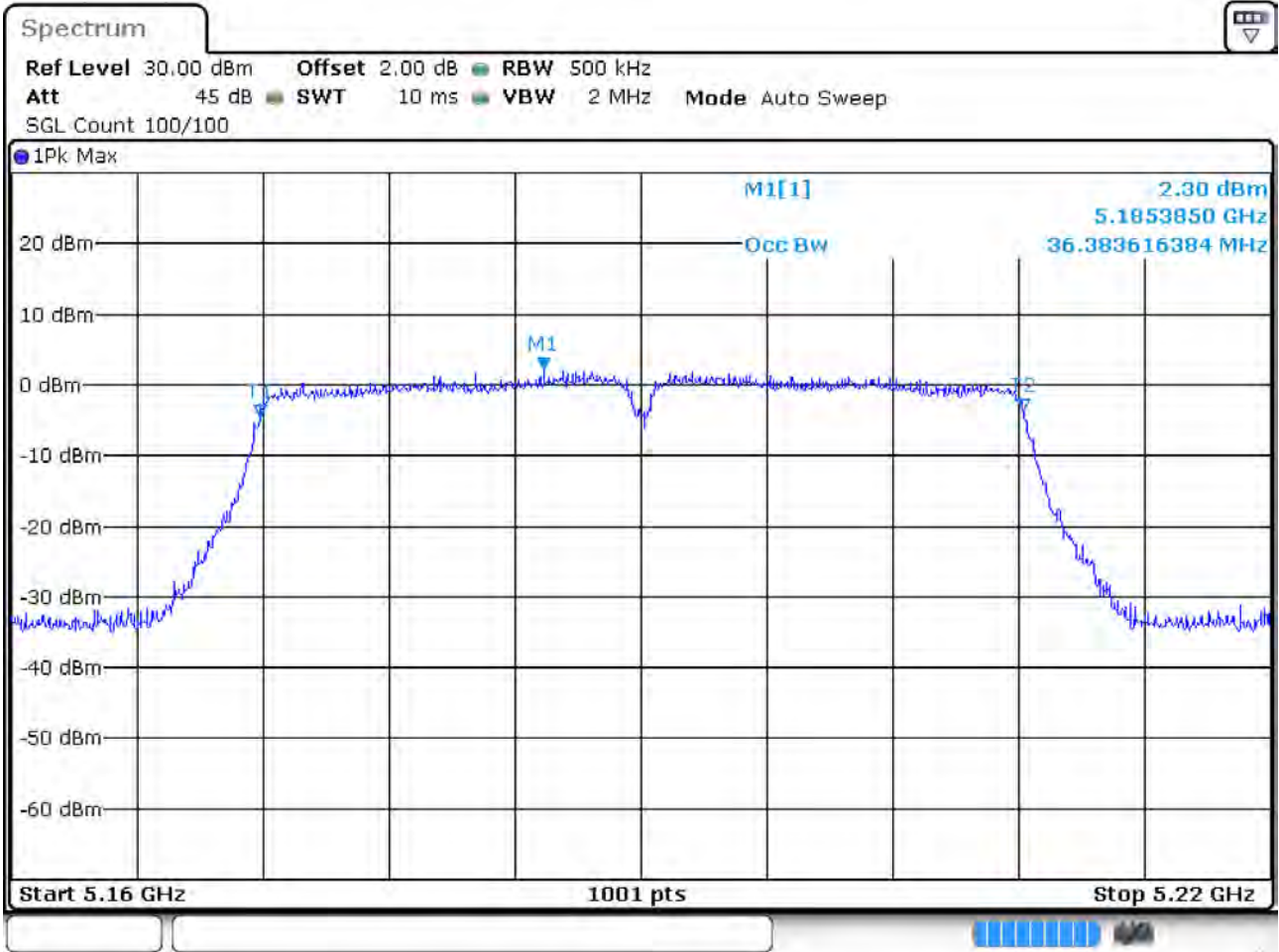


Date: 30 JUL 2019 20:00:55



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4.7.2.113 11AC40_38 ANT 1

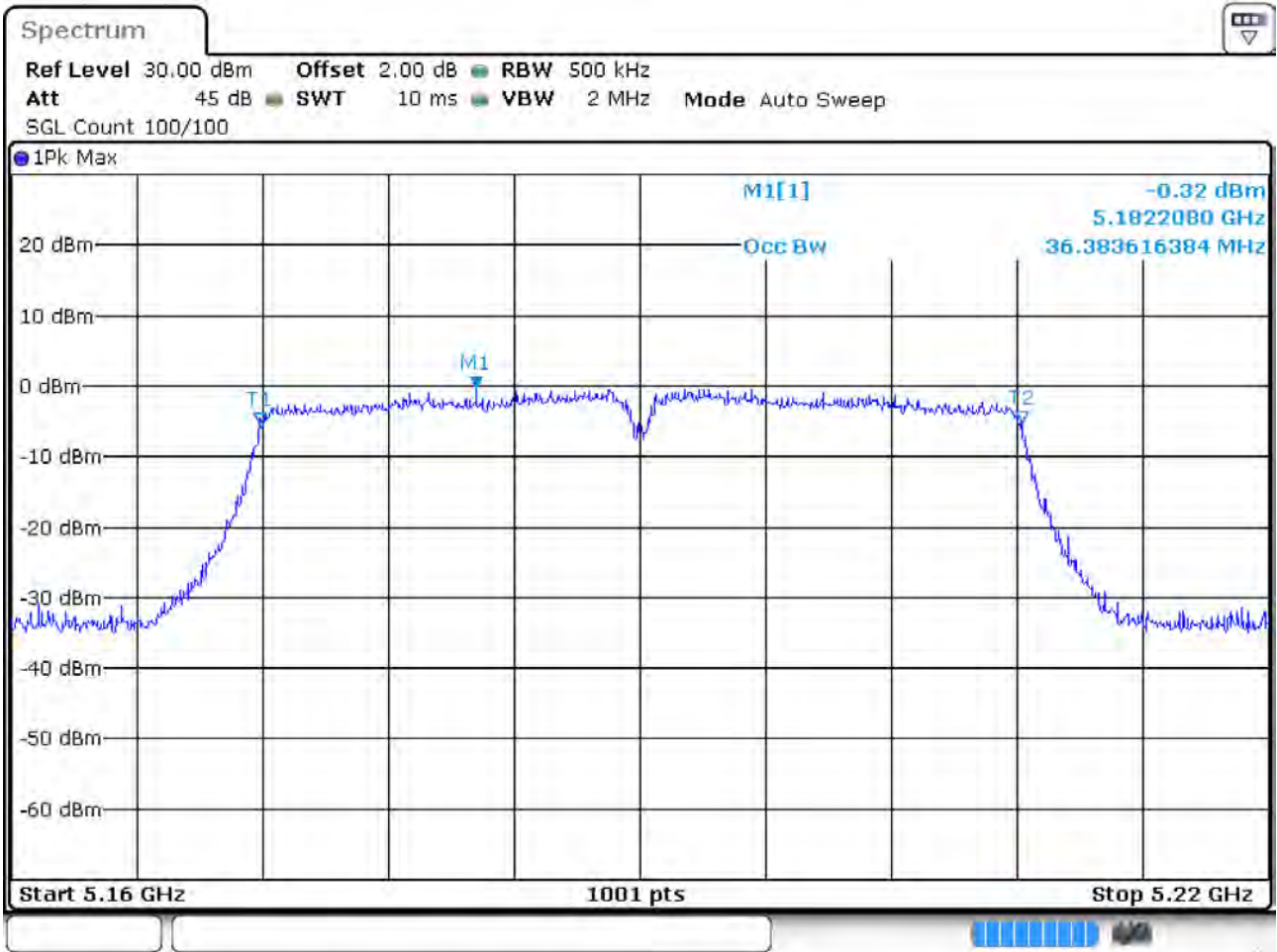


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4.7.2.114 11AC40_38 ANT 2

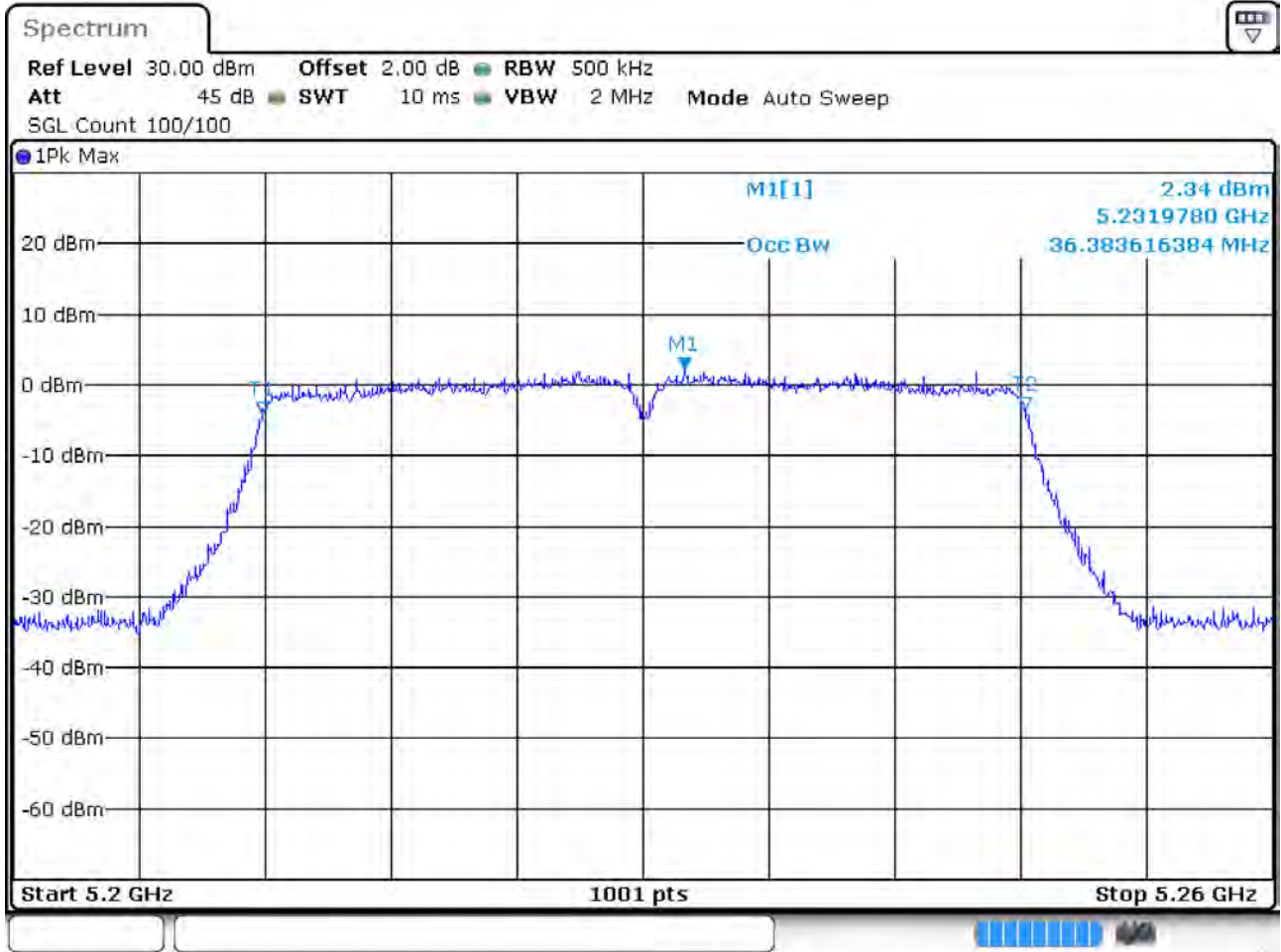


Date: 30 JUL 2019 03:21:06



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4.7.2.115 11AC40_46 ANT 1



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4.7.2.116 11AC40_46 ANT 2

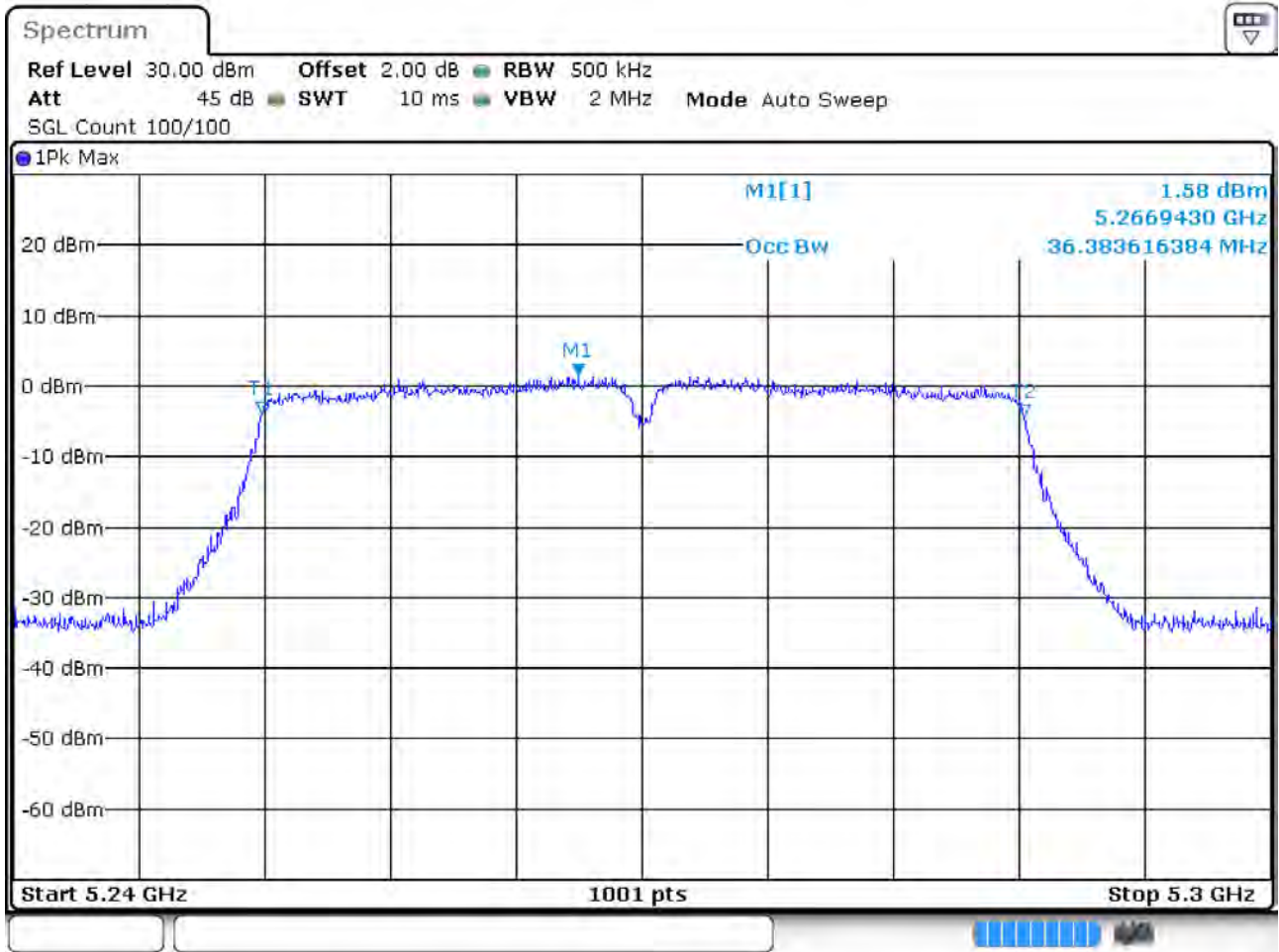


Date: 30 JUL 2019 03:22:24



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4.7.2.117 11AC40_54 ANT 1



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4.7.2.118 11AC40_54 ANT 2

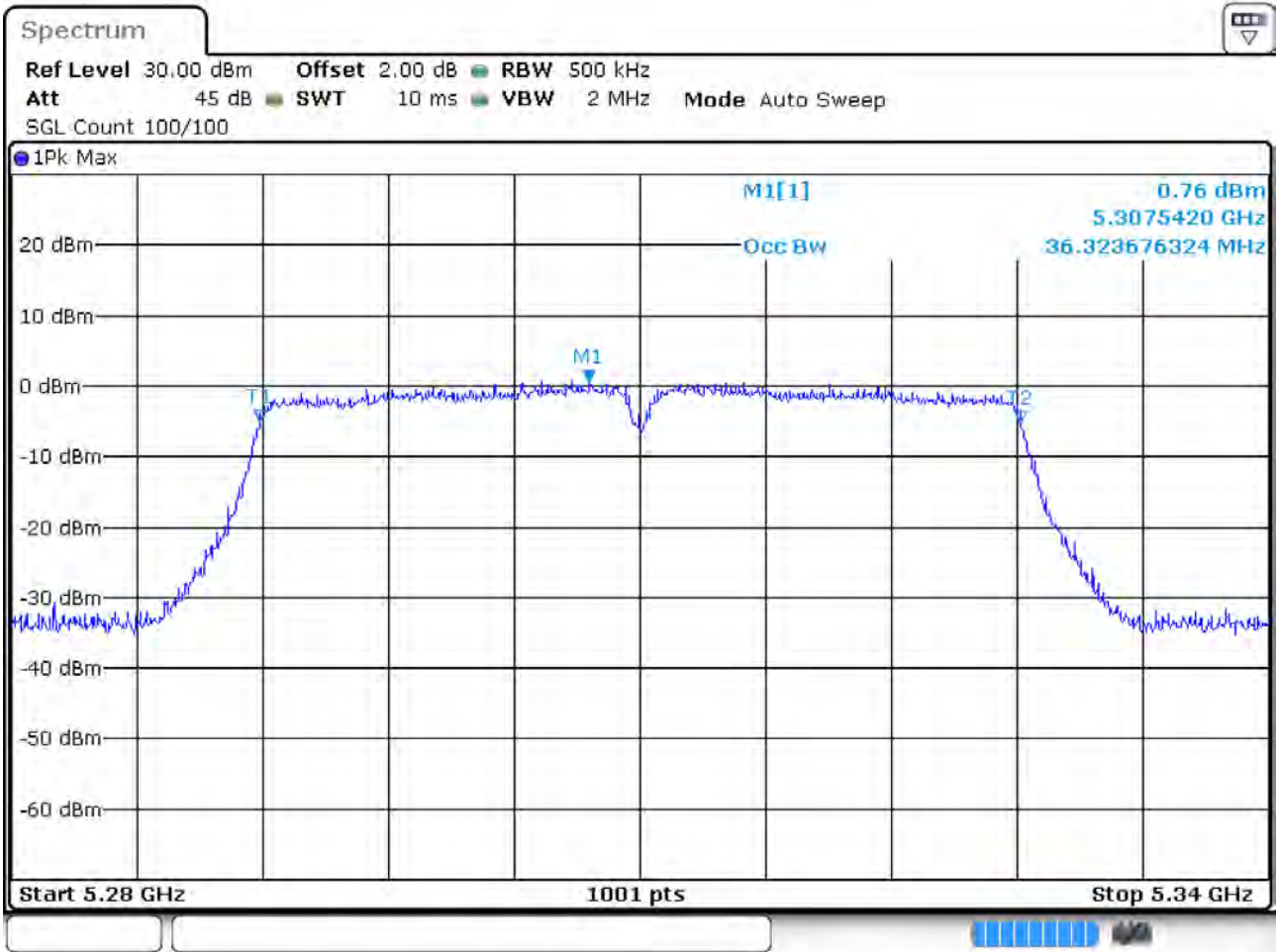


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4.7.2.119 11AC40_62 ANT 1

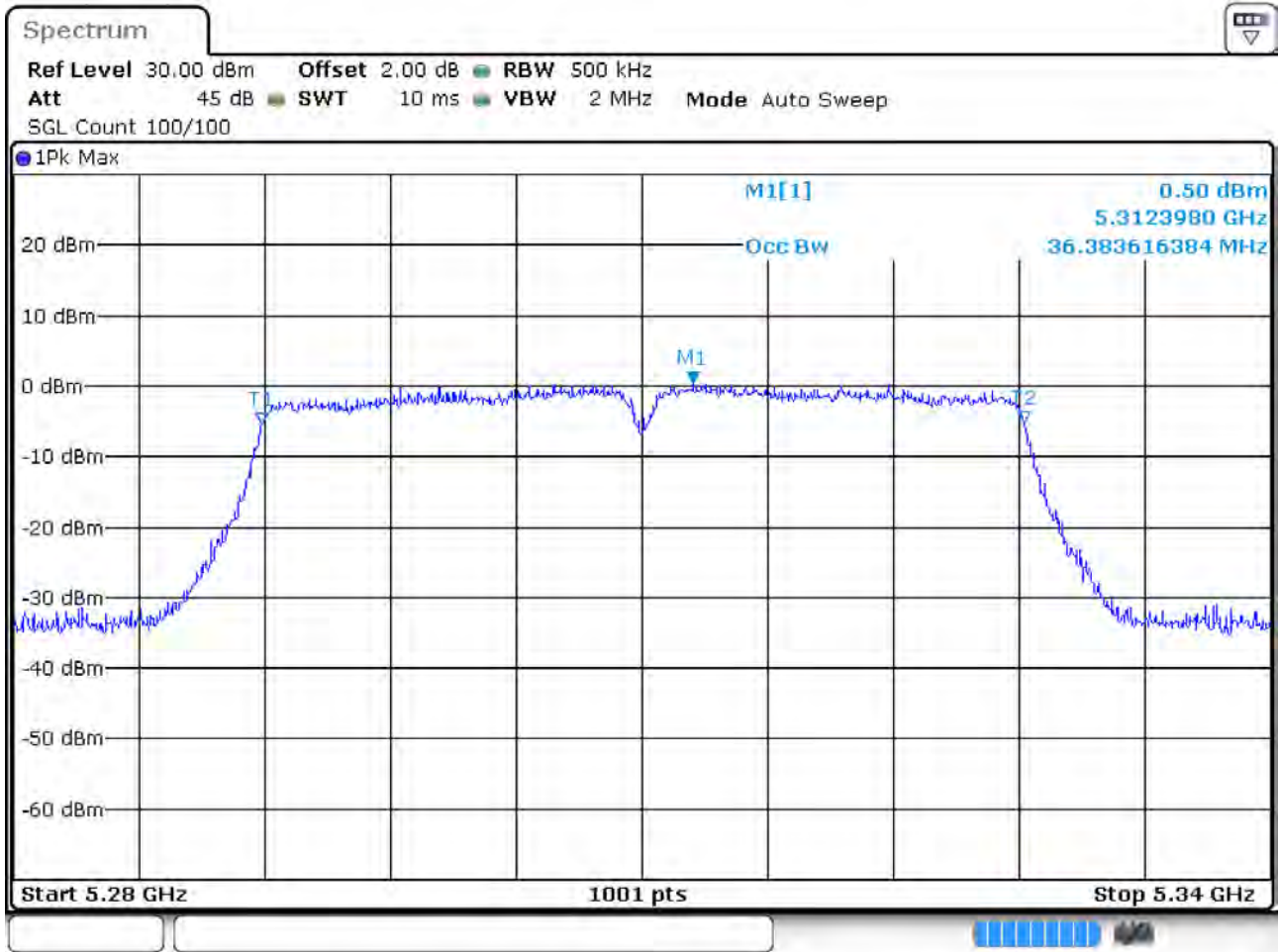


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4.7.2.120 11AC40_62 ANT 2



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4.7.2.121 11AC40_102 ANT 1



Date: 30 JUL 2019 03:03:30

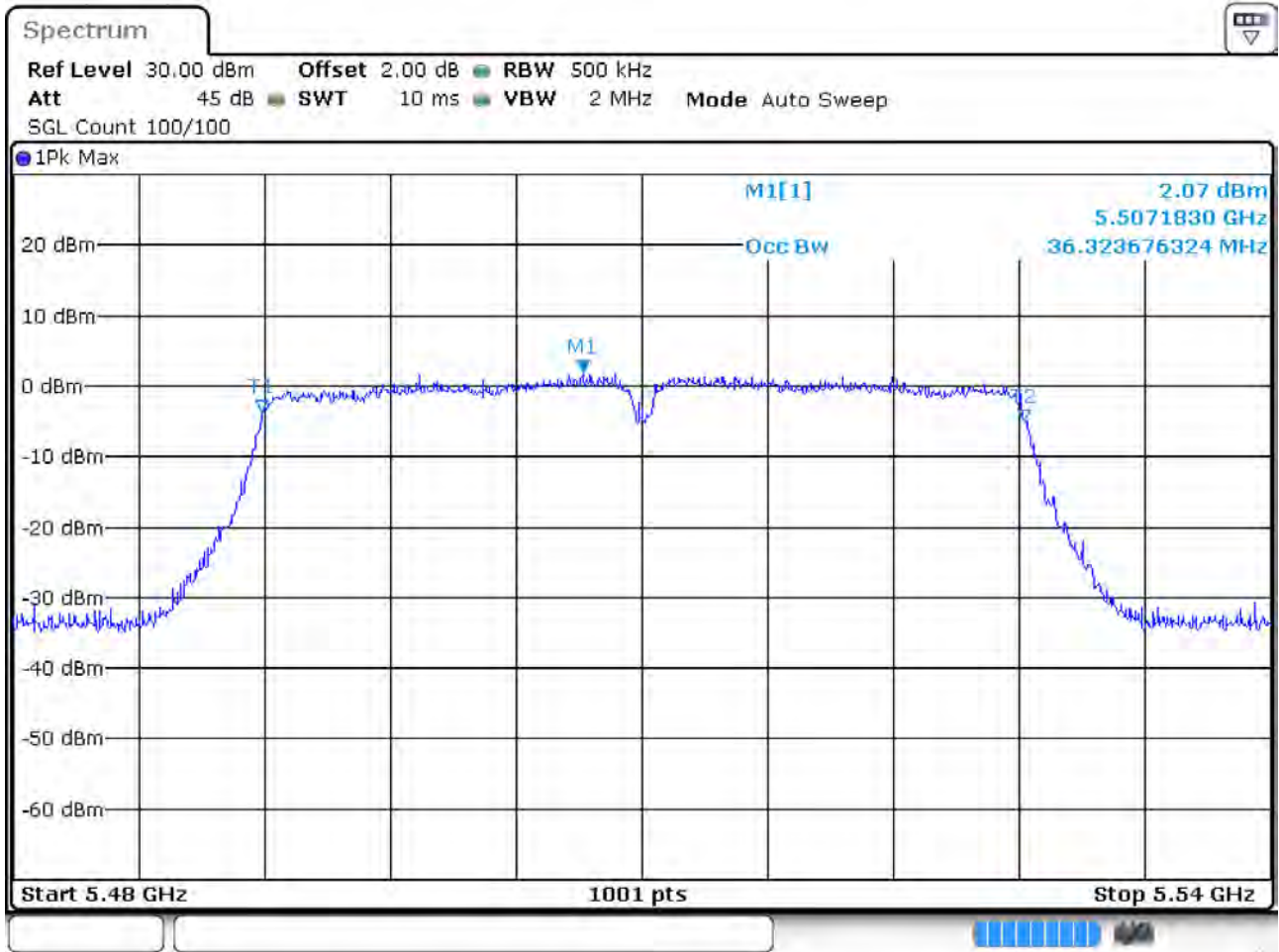


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4.7.2.122 11AC40_102 ANT 2



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4.7.2.123 11AC40_134 ANT 1



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4.7.2.124 11AC40_134 ANT 2

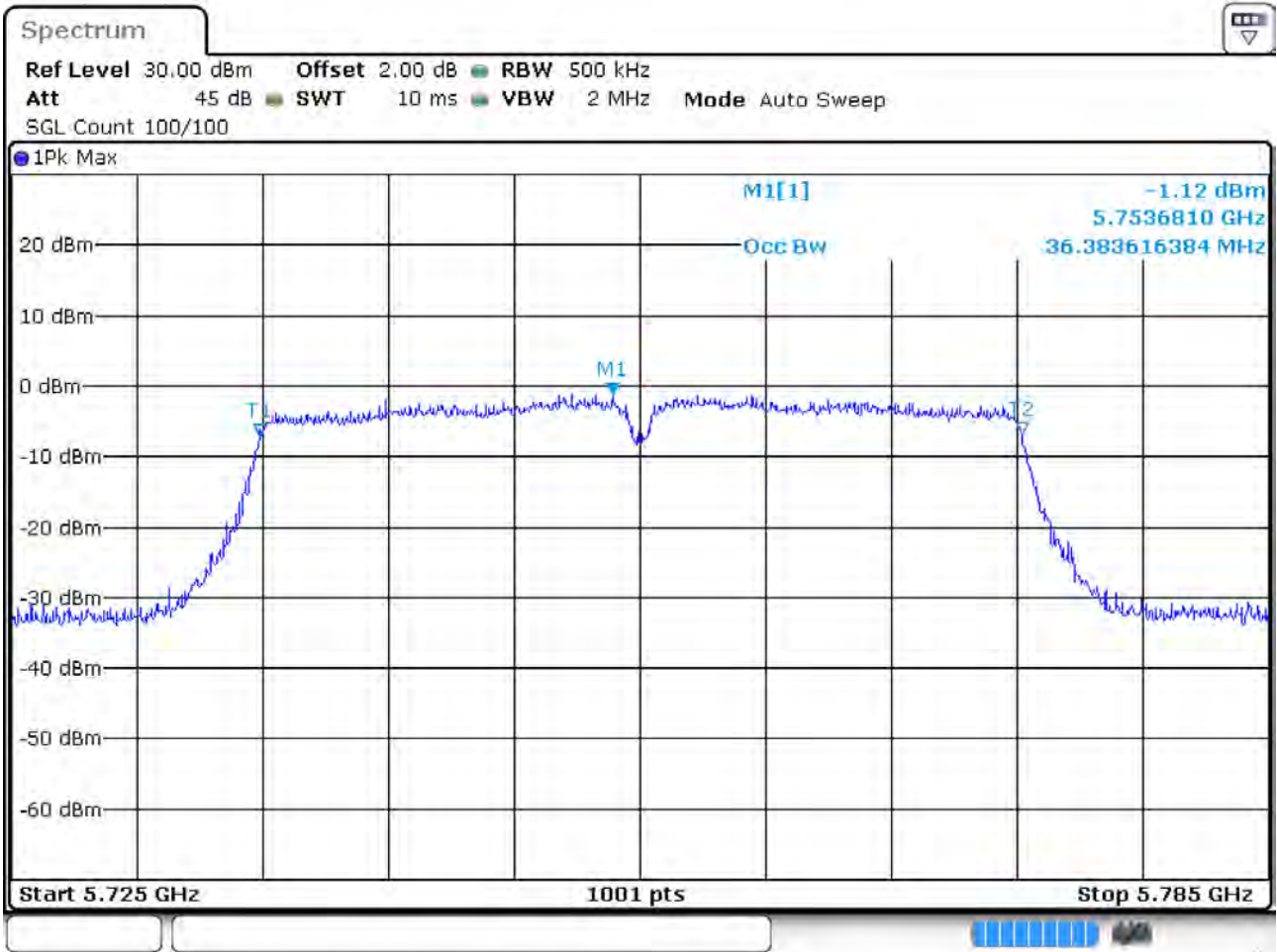


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4.7.2.125 11AC40_151 ANT 1



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4.7.2.126 11AC40_151 ANT 2



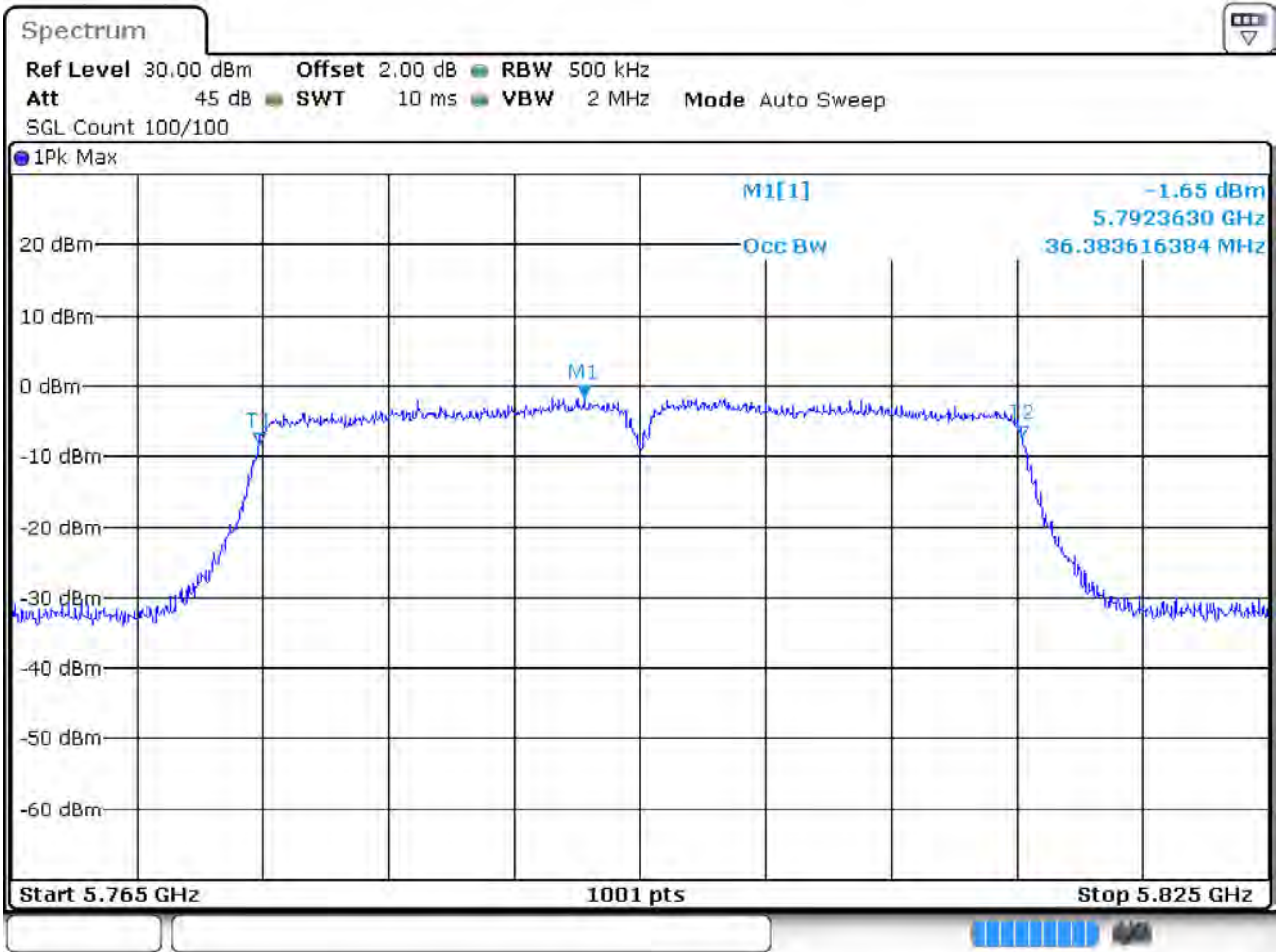
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4.7.2.127 11AC40_159 ANT 1

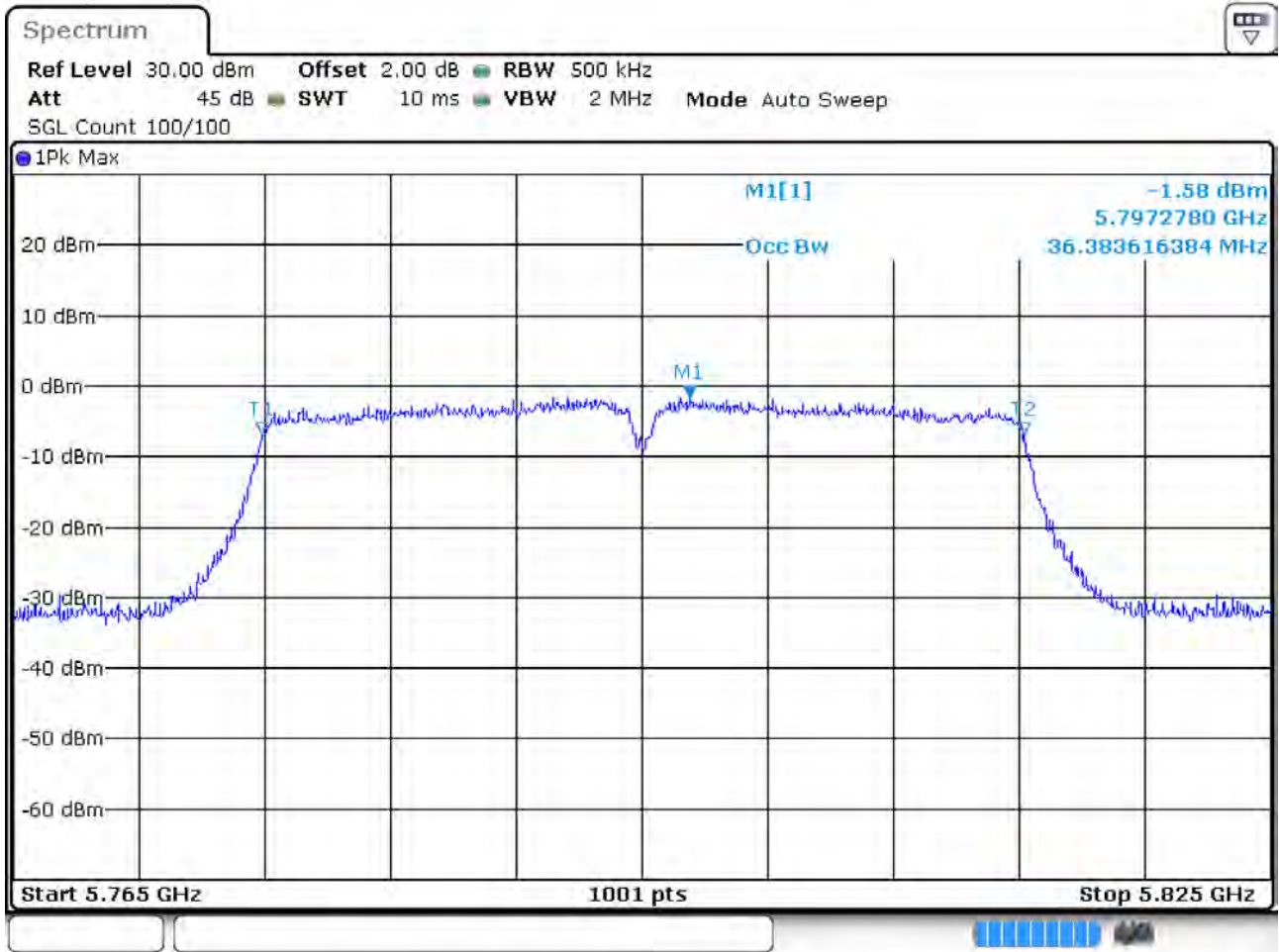


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4.7.2.128 11AC40_159 ANT 2

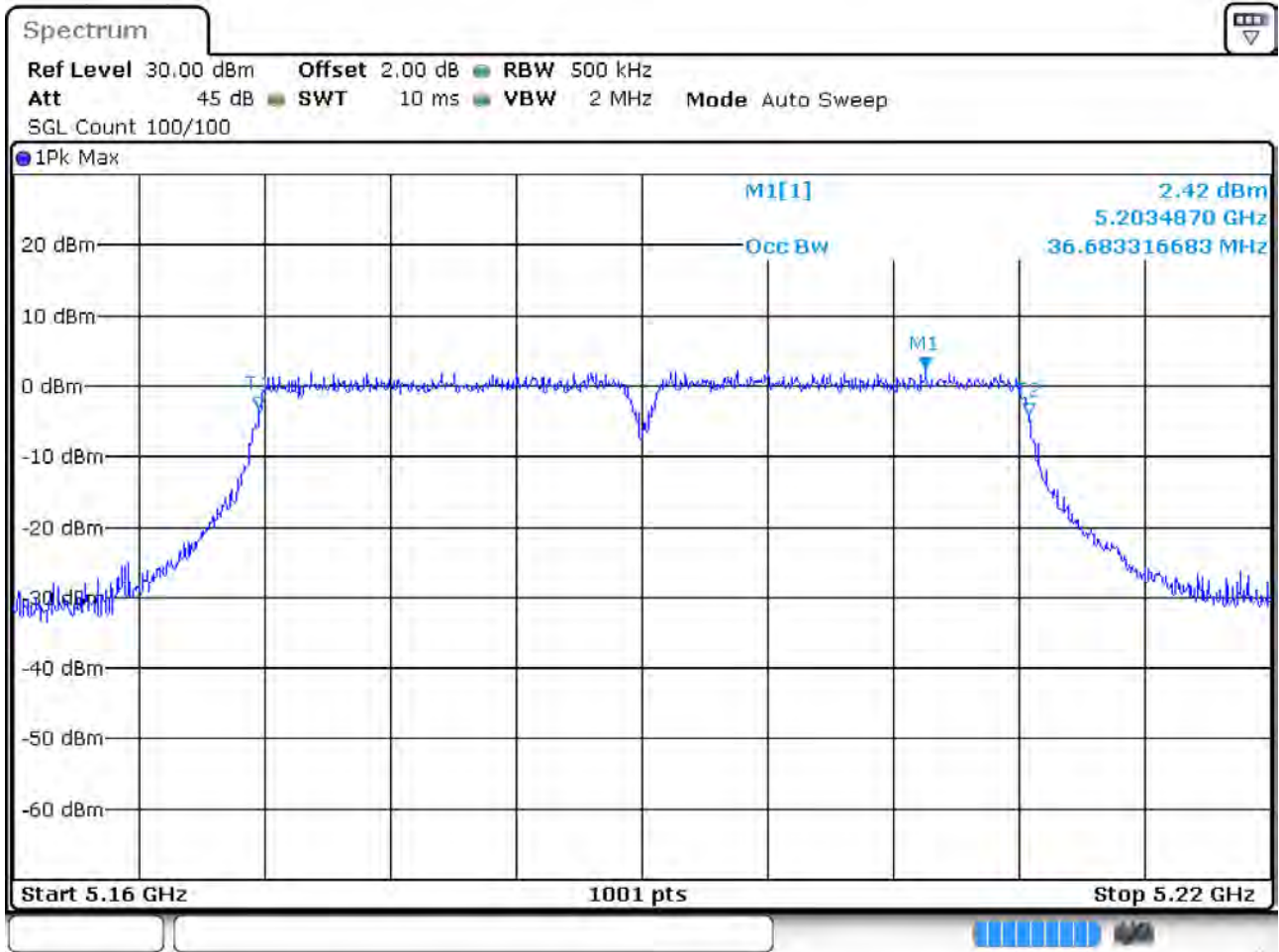


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4.7.2.129 11AC40MIMO_38 ANT 1



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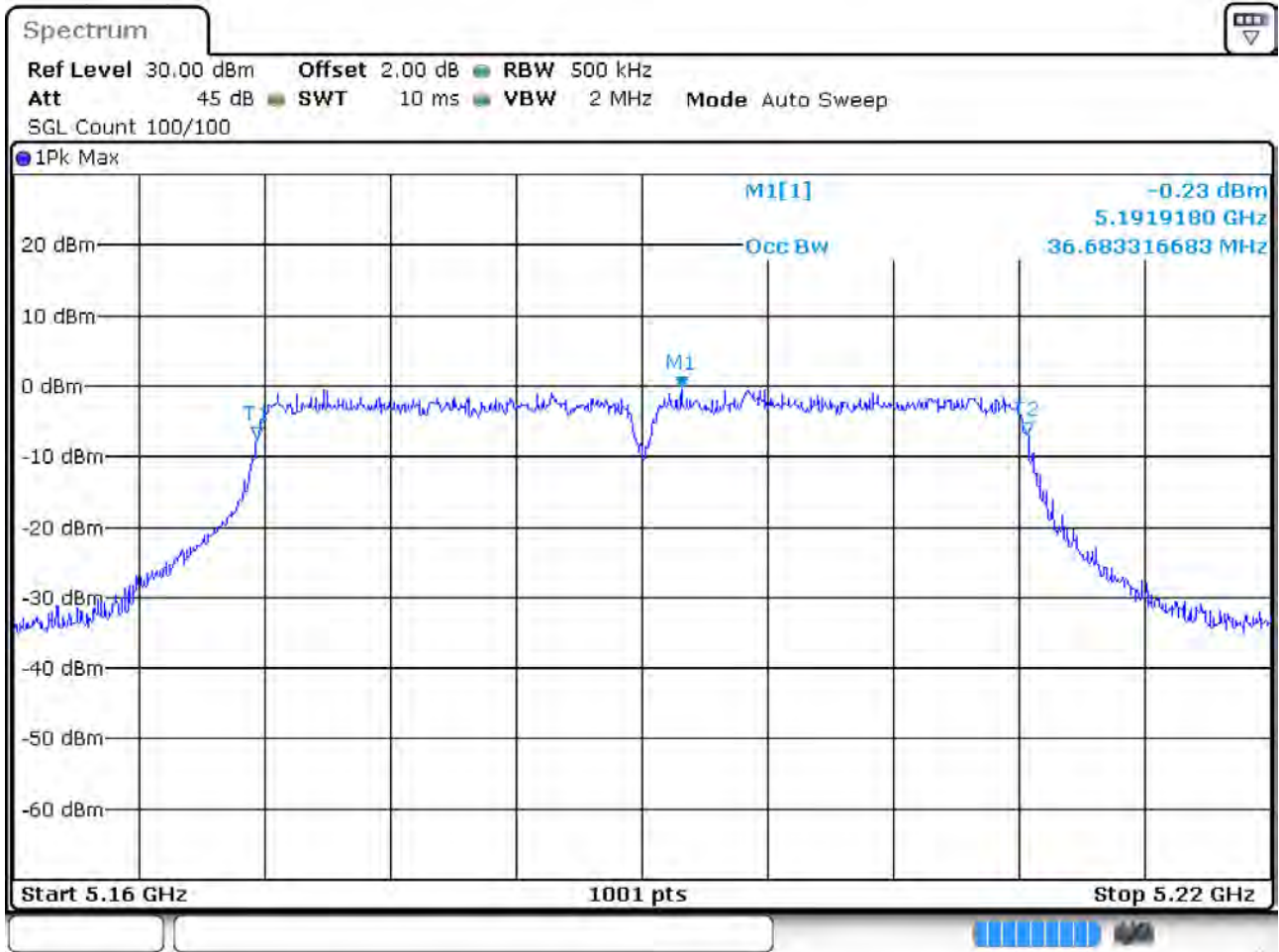


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4.7.2.130 11AC40MIMO_38 ANT 2



Date: 30 JUL 2019 20:10:44

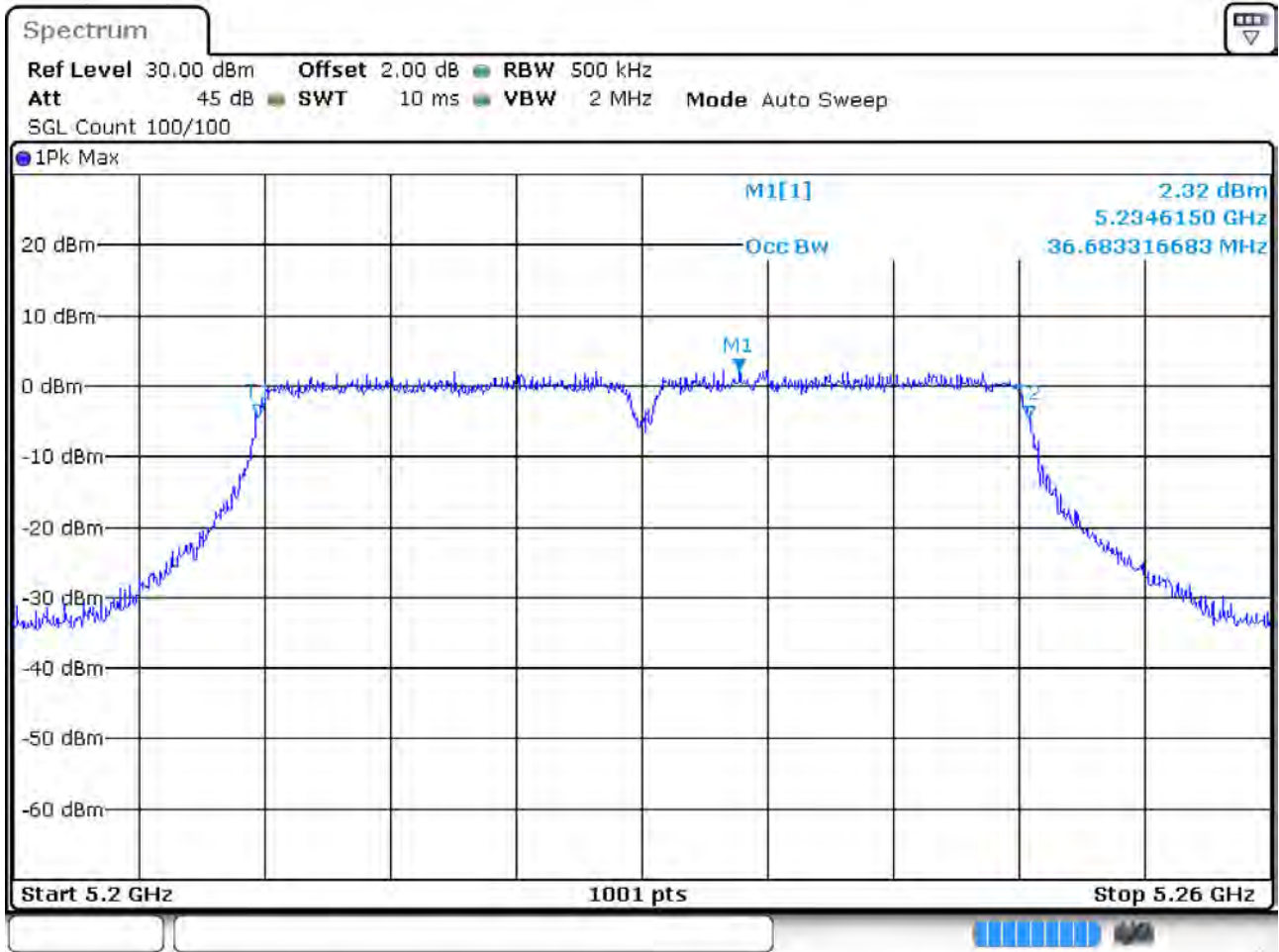


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4.7.2.131 11AC40MIMO_46 ANT 1



Date: 30 JUL 2019 20:39:15

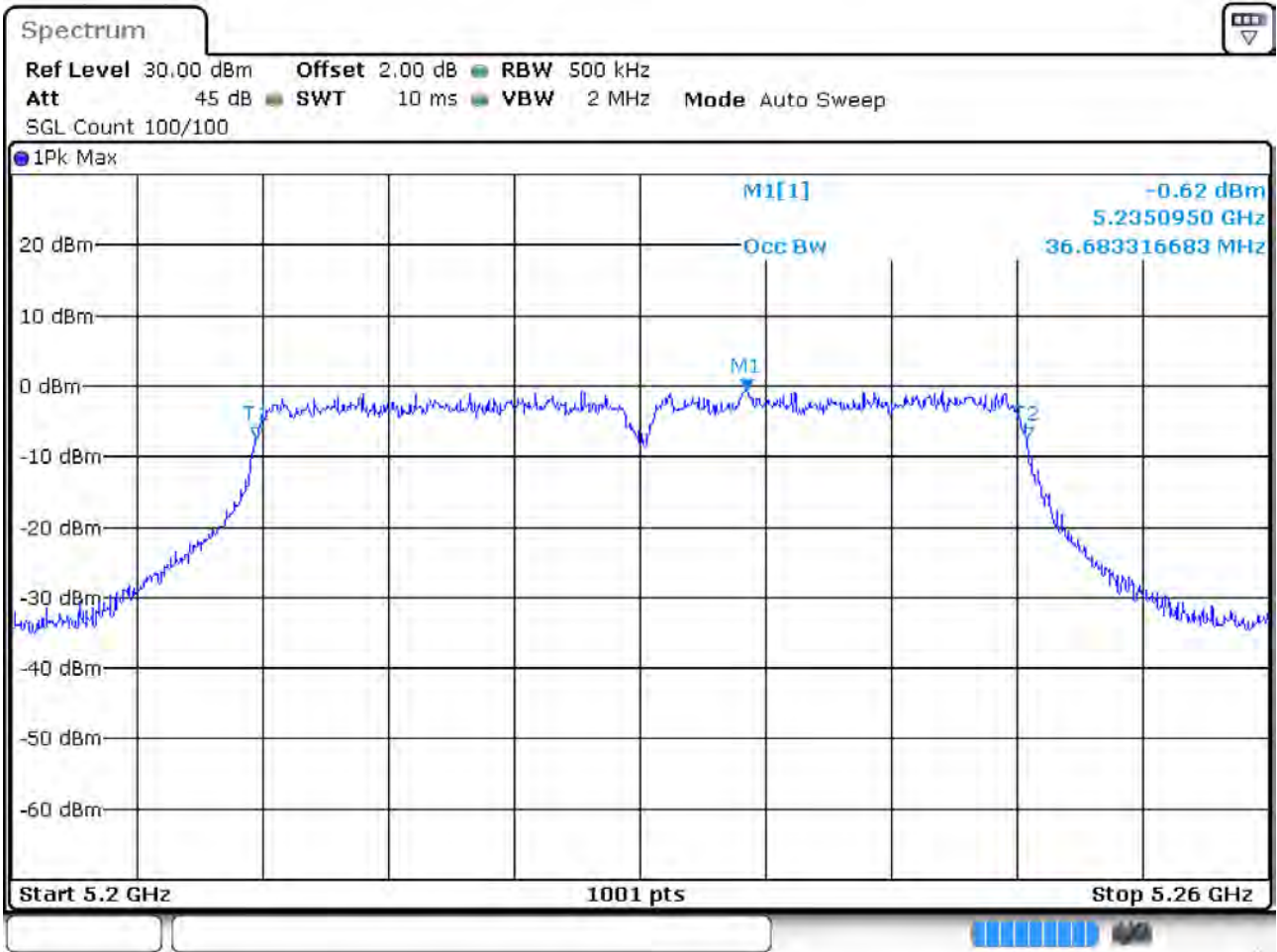


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4.7.2.132 11AC40MIMO_46 ANT 2

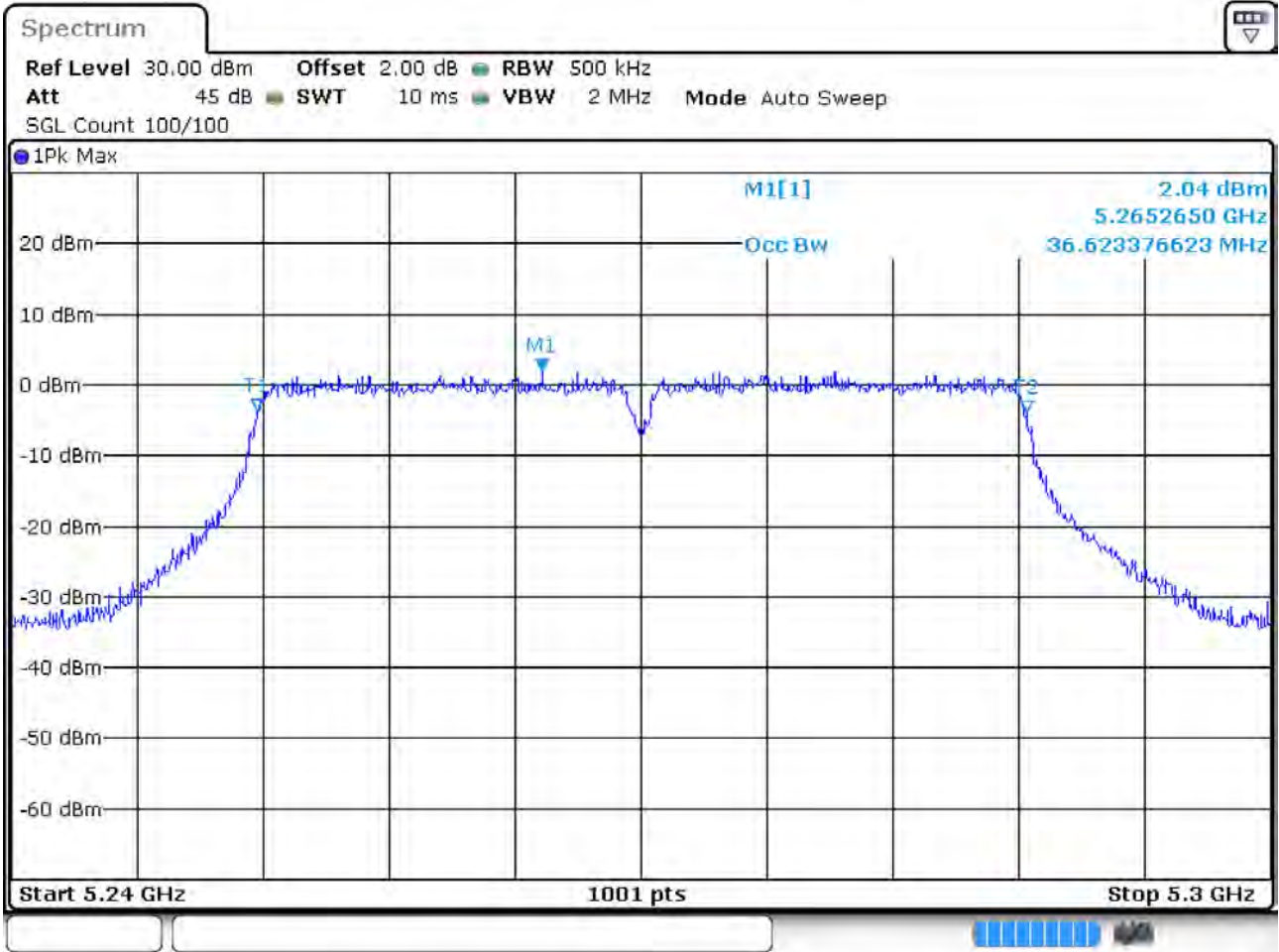


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4.7.2.133 11AC40MIMO_54 ANT 1



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4.7.2.134 11AC40MIMO_54 ANT 2

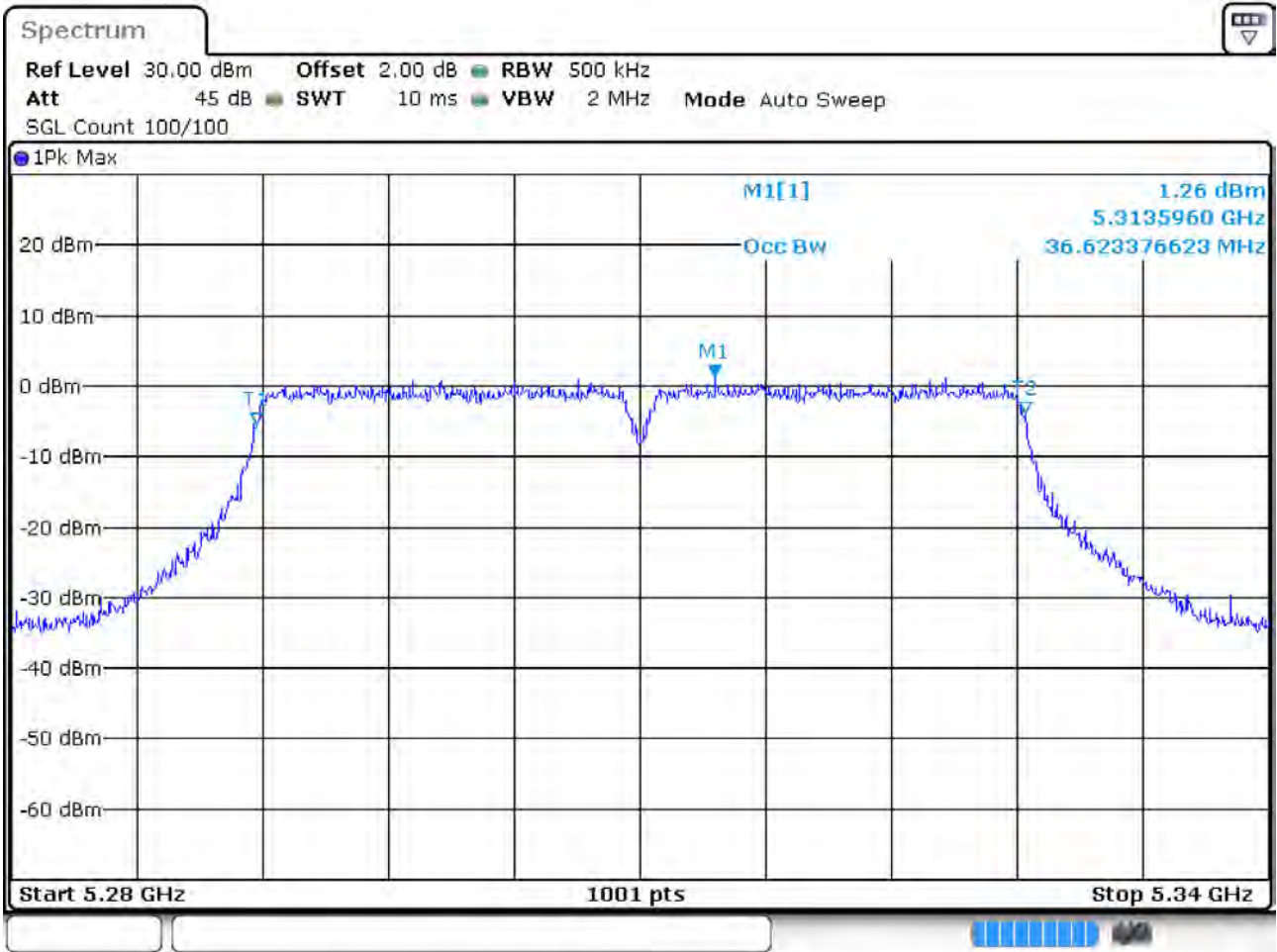


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4.7.2.135 11AC40MIMO_62 ANT 1

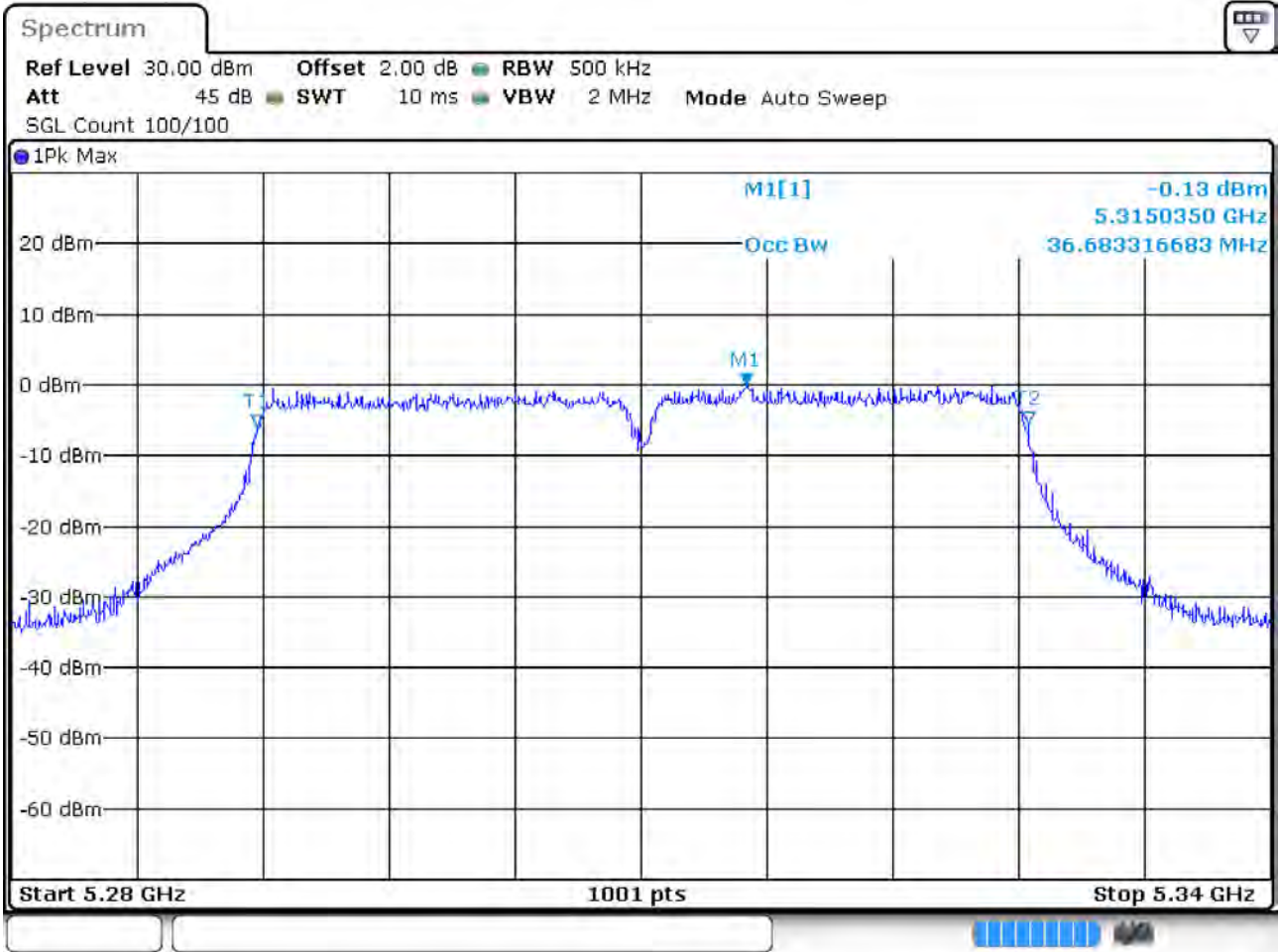


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4.7.2.136 11AC40MIMO_62 ANT 2

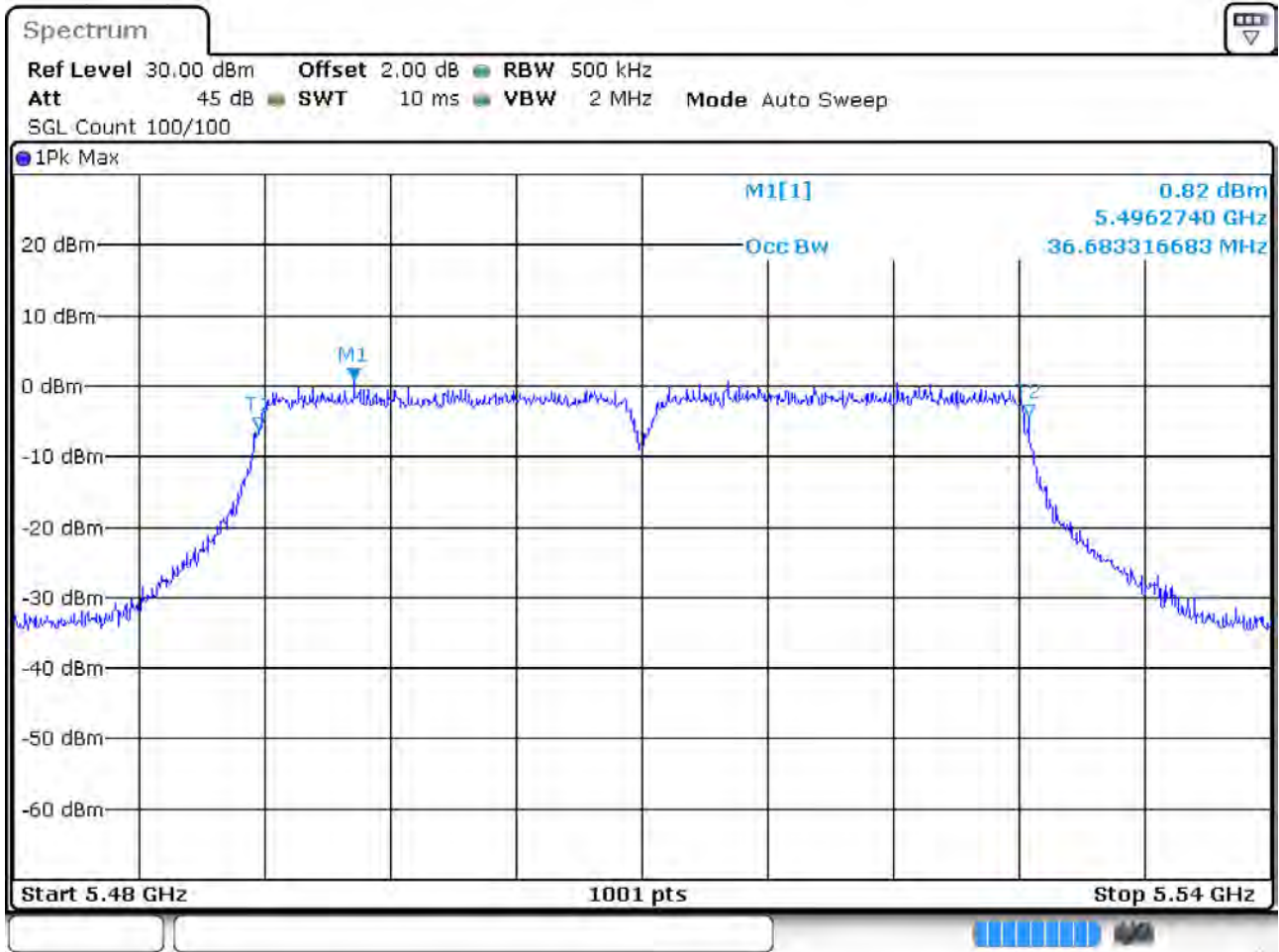


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4.7.2.137 11AC40MIMO_102 ANT 1

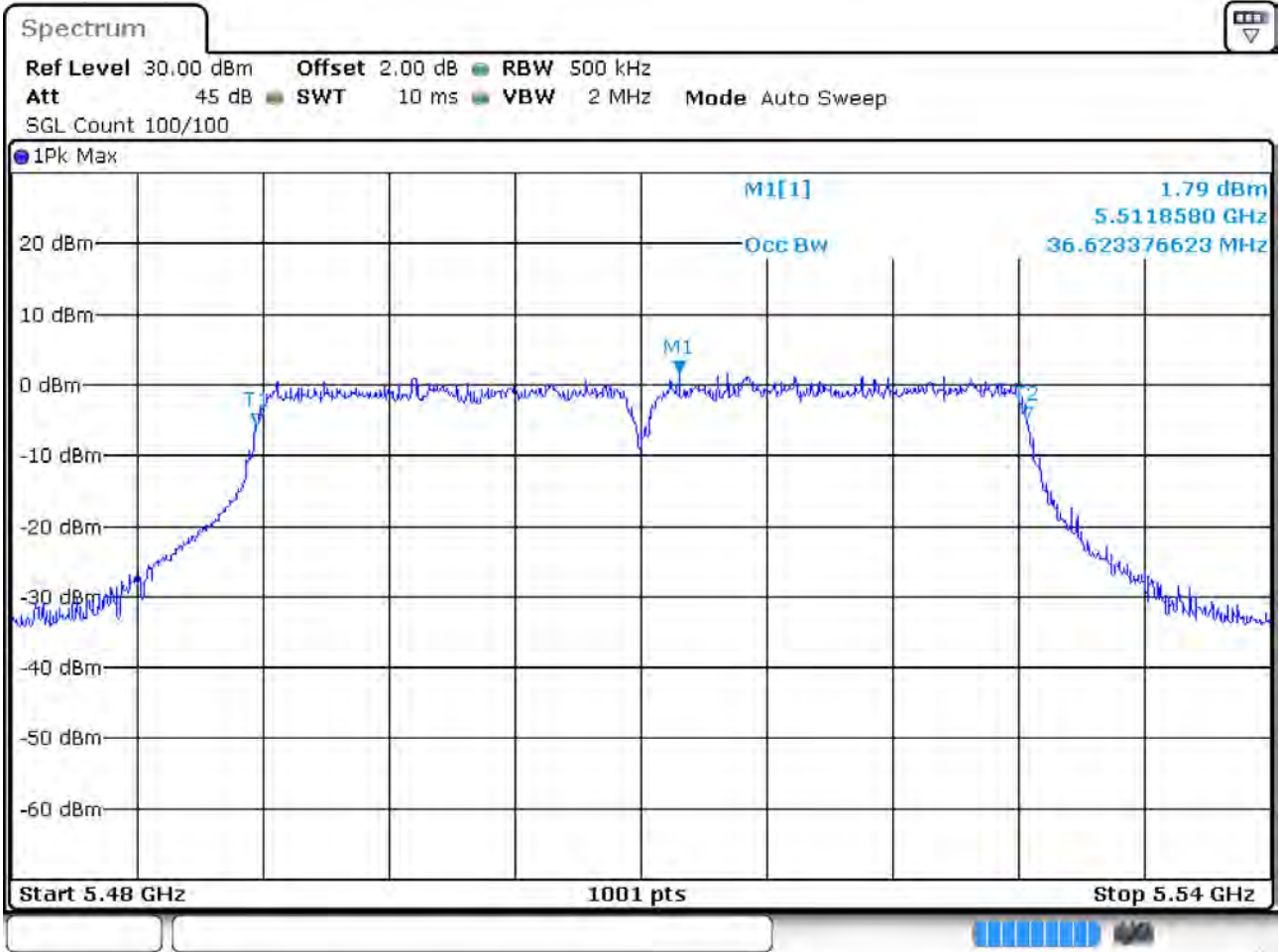


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4.7.2.138 11AC40MIMO_102 ANT 2



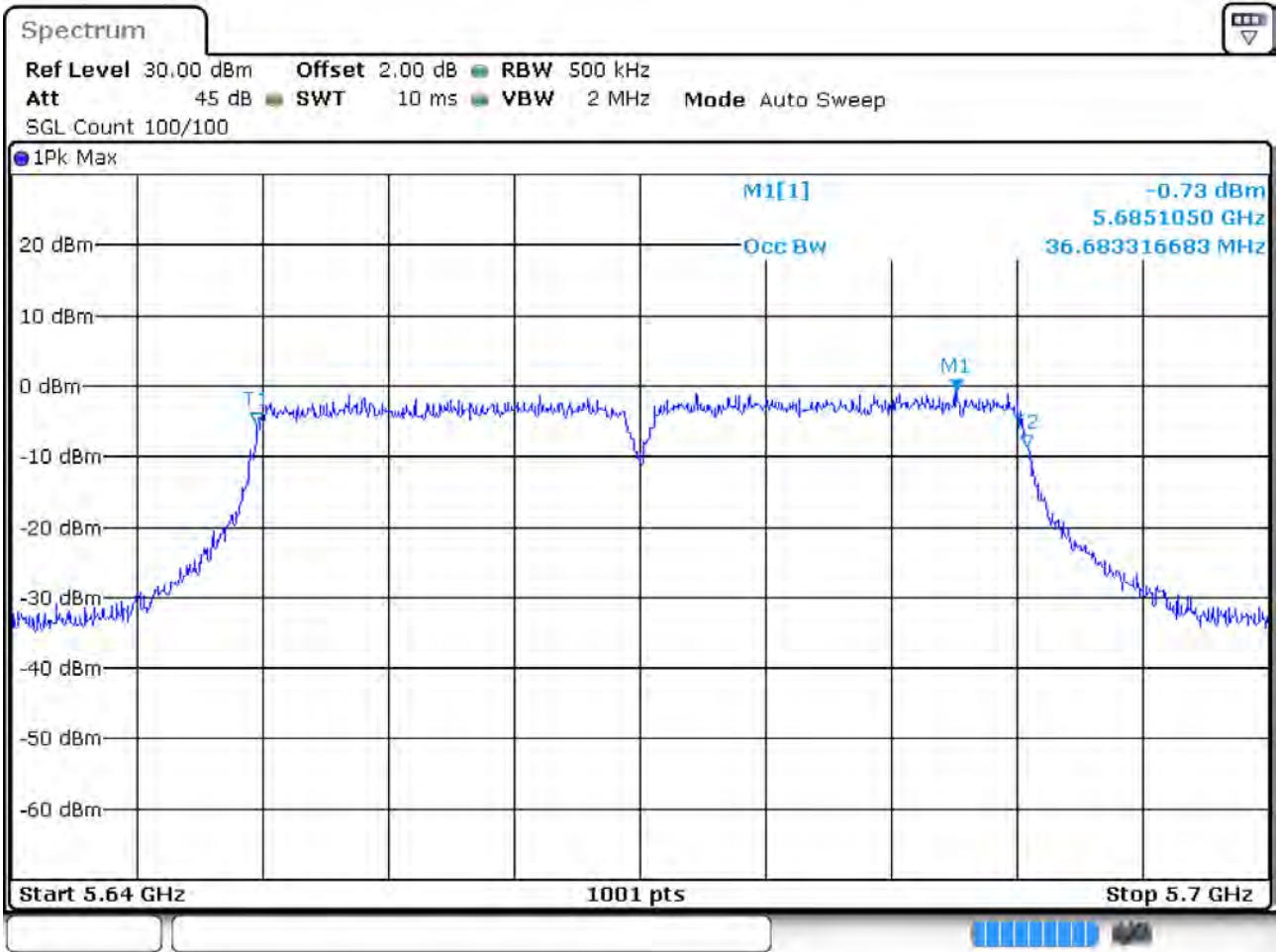
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4.7.2.139 11AC40MIMO_134 ANT 1



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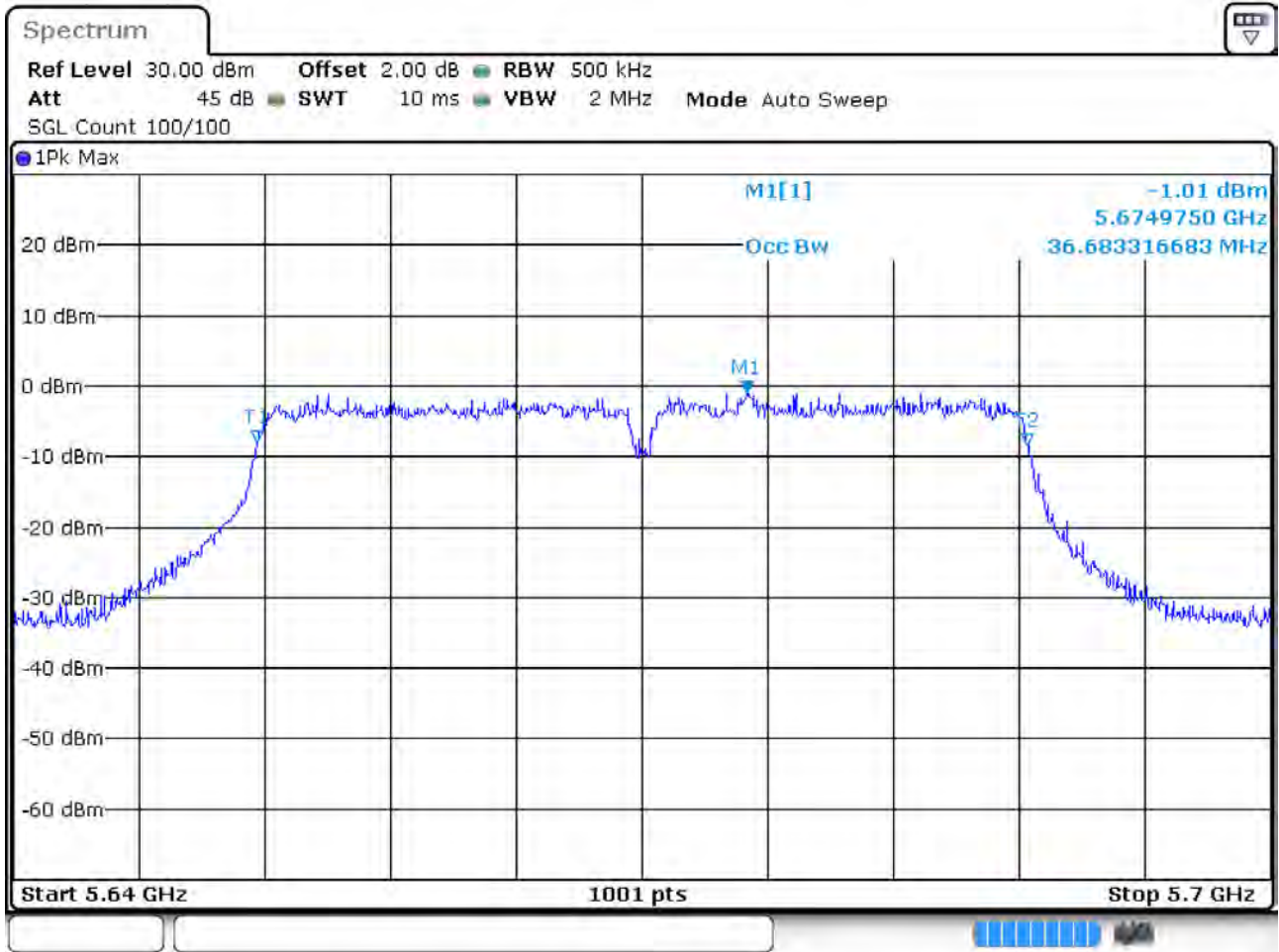


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4.7.2.140 11AC40MIMO_134 ANT 2

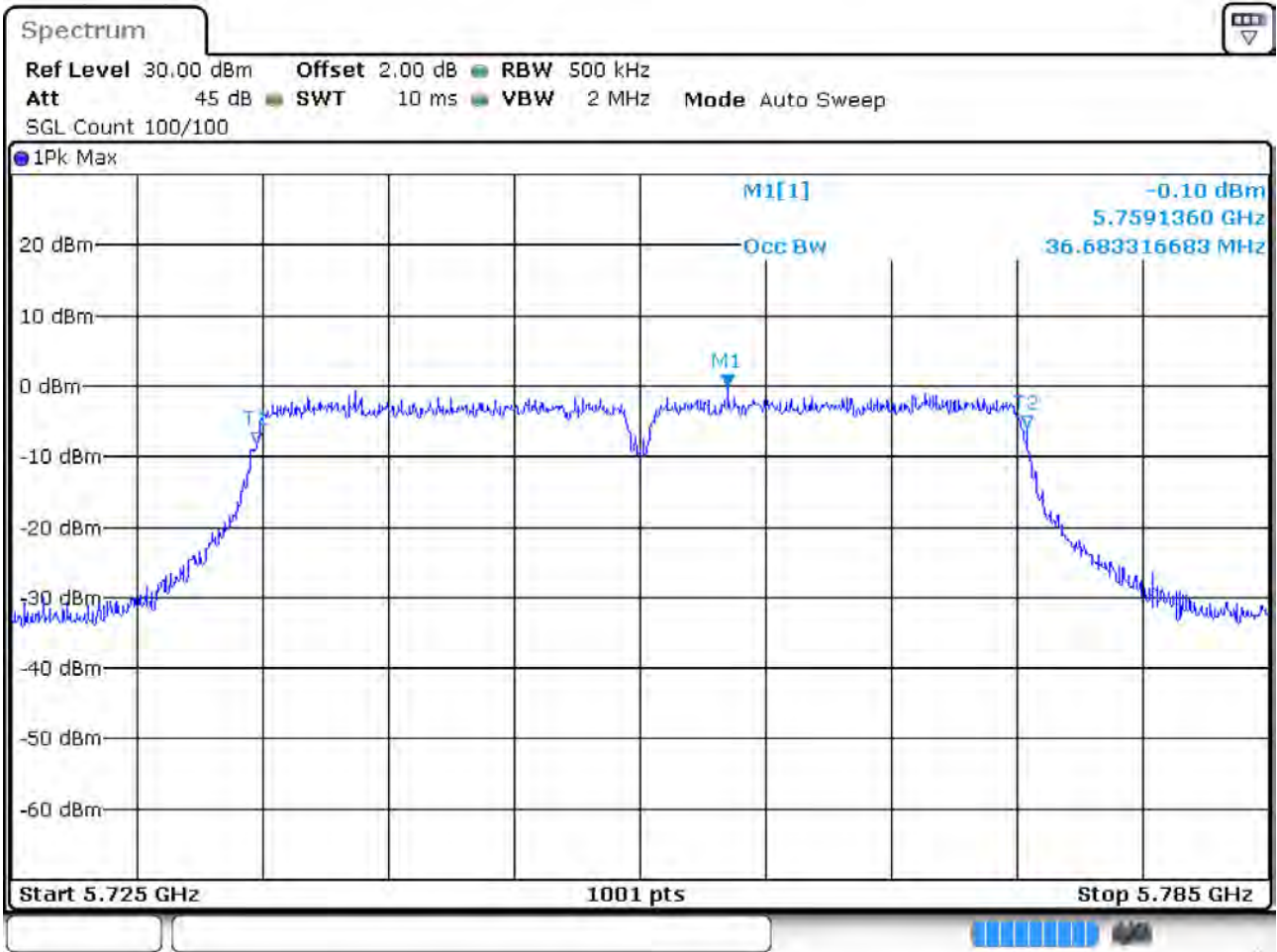


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4.7.2.141 11AC40MIMO_151 ANT 1



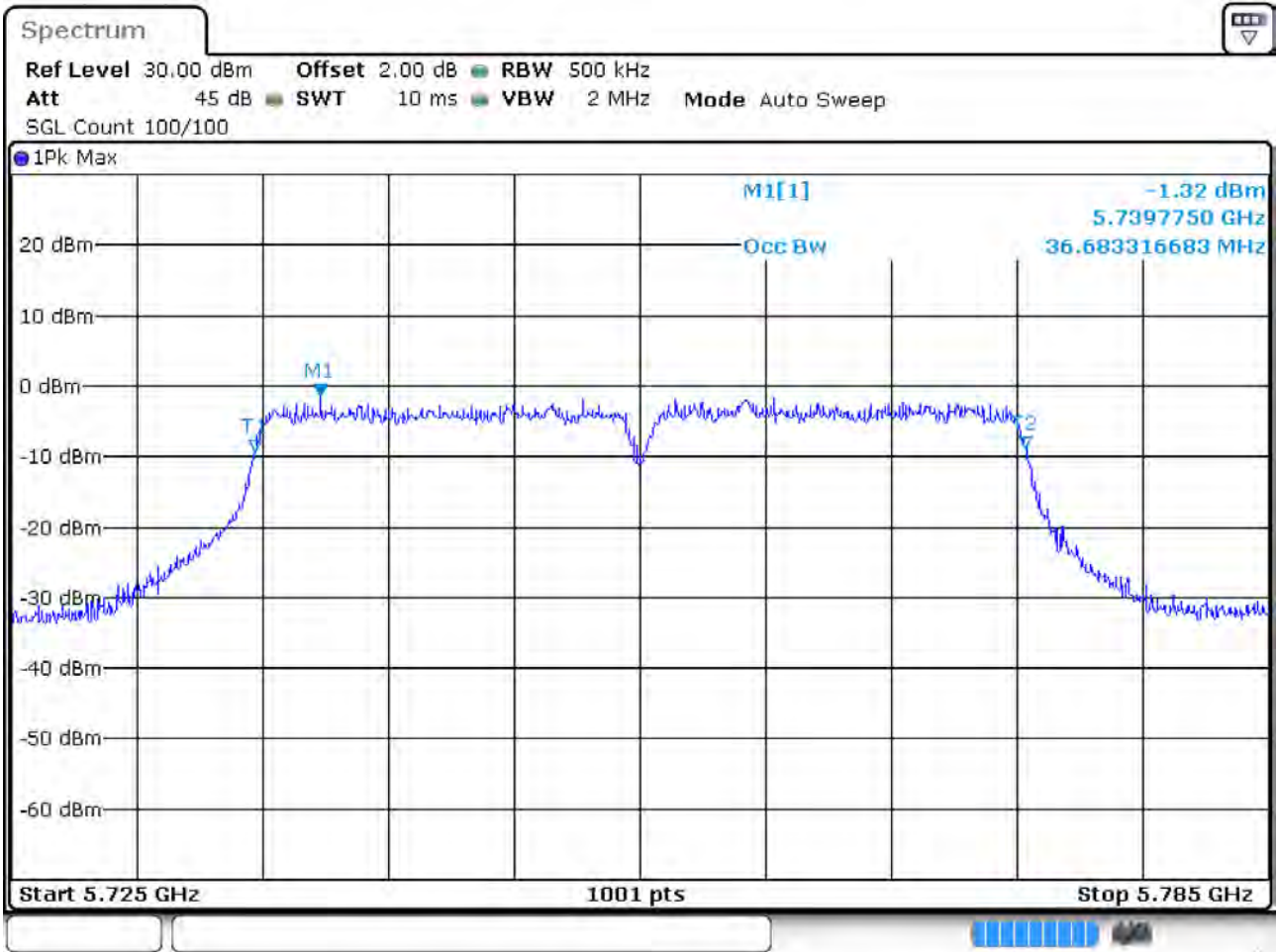
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4.7.2.142 11AC40MIMO_151 ANT 2

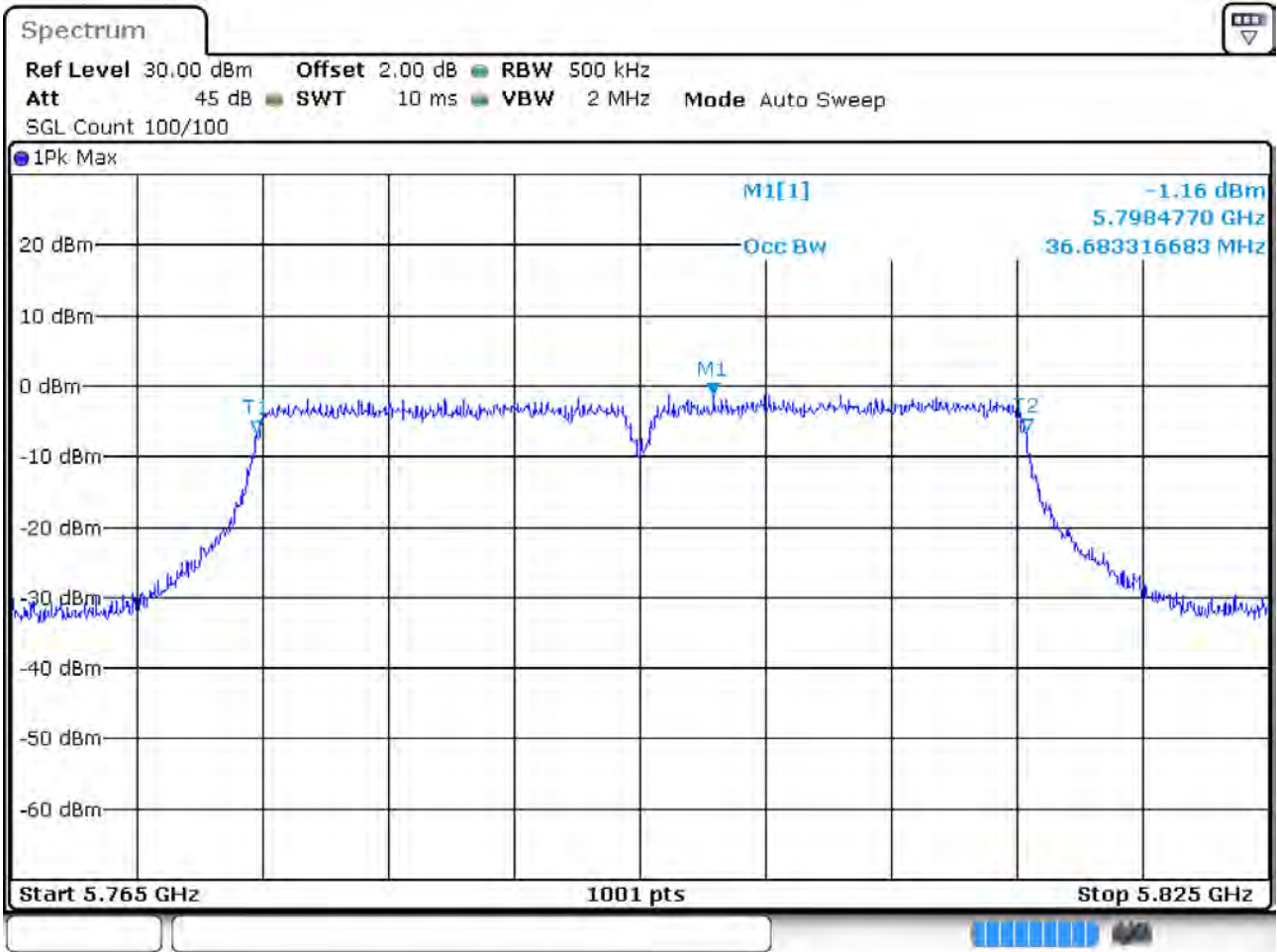


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4.7.2.143 11AC40MIMO_159 ANT 1



Date: 30 JUL 2019 20:55:23

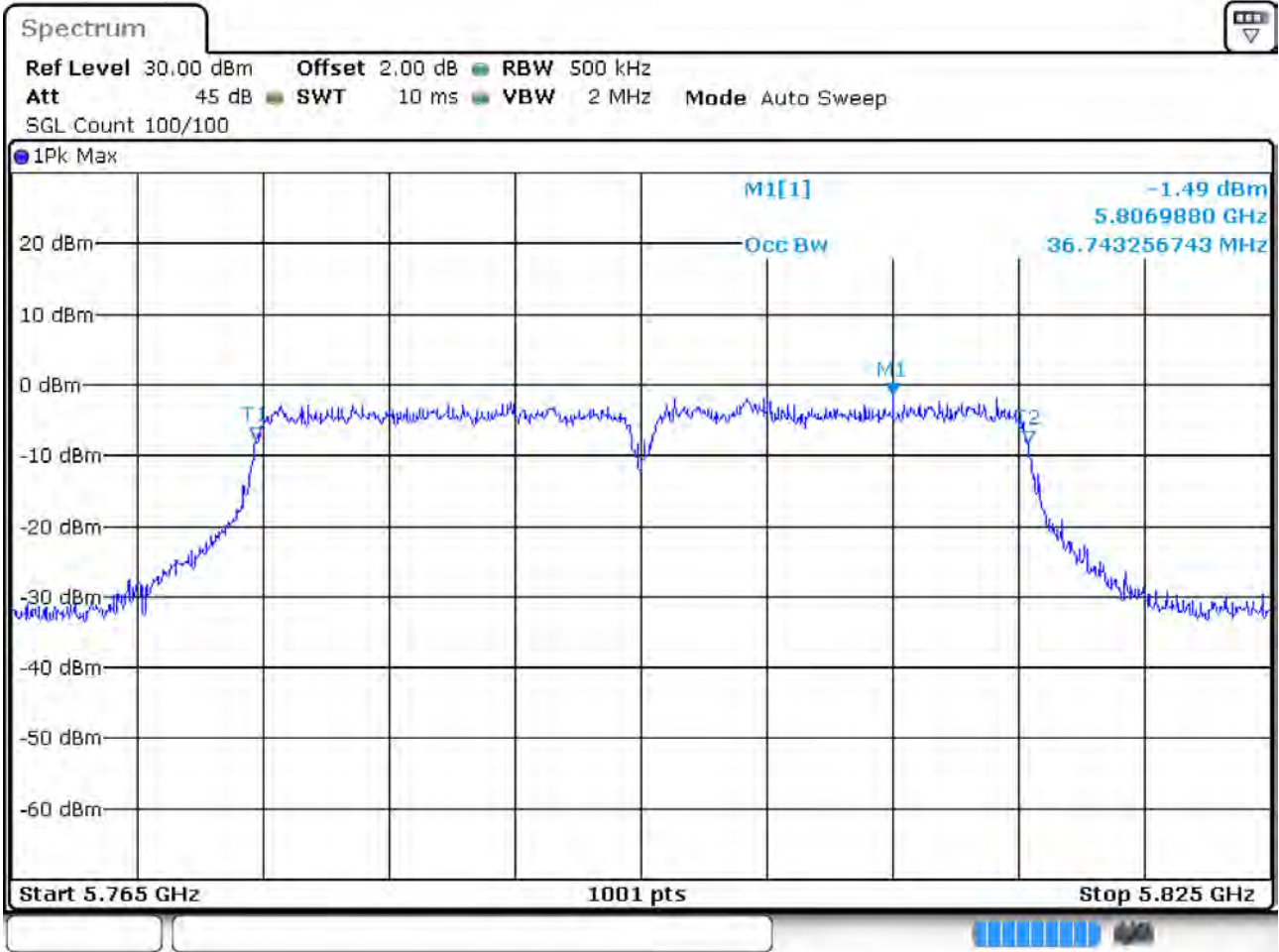


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4.7.2.144 11AC40MIMO_159 ANT 2

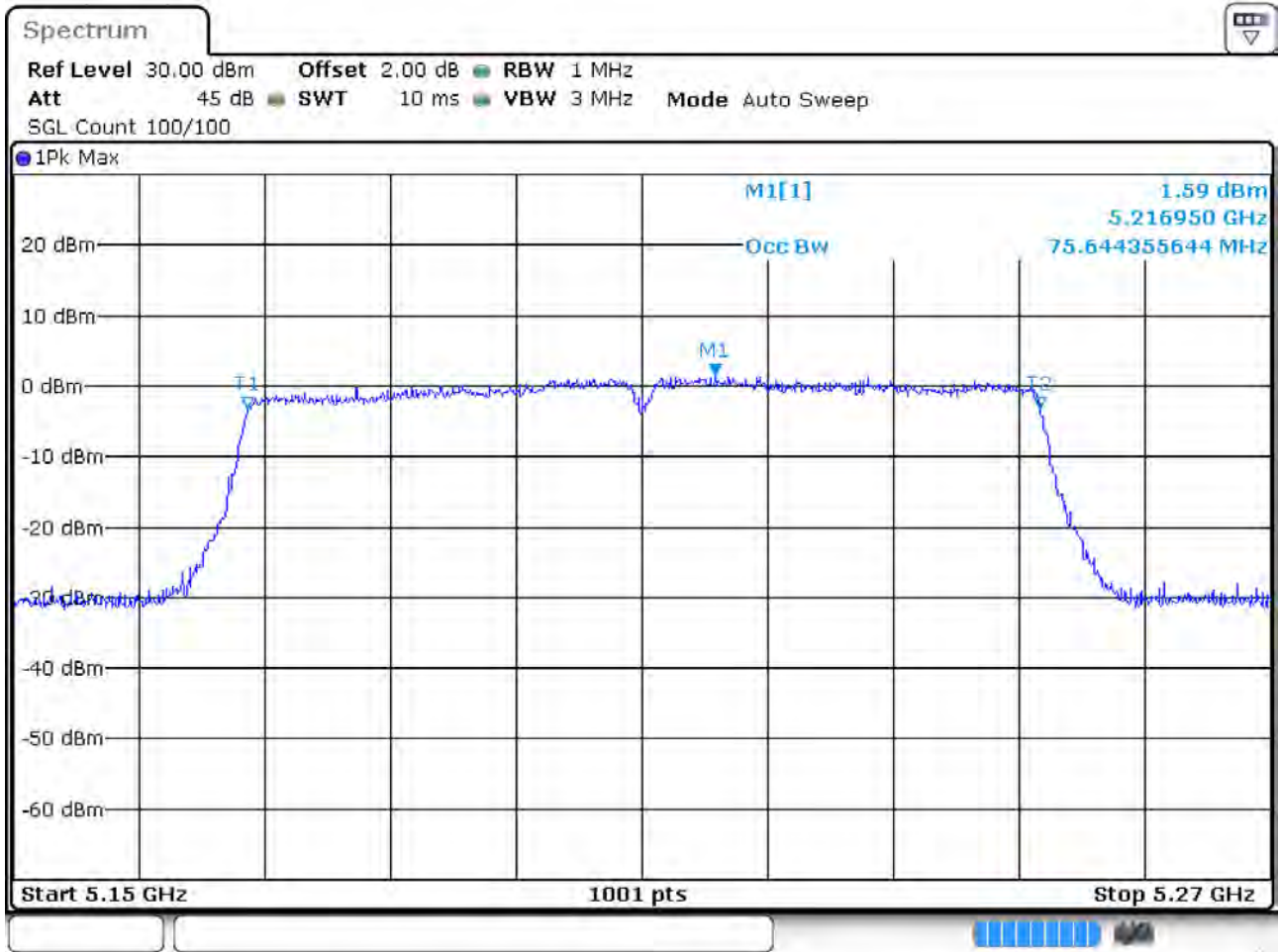


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4.7.2.145 11AC80_42 ANT 1

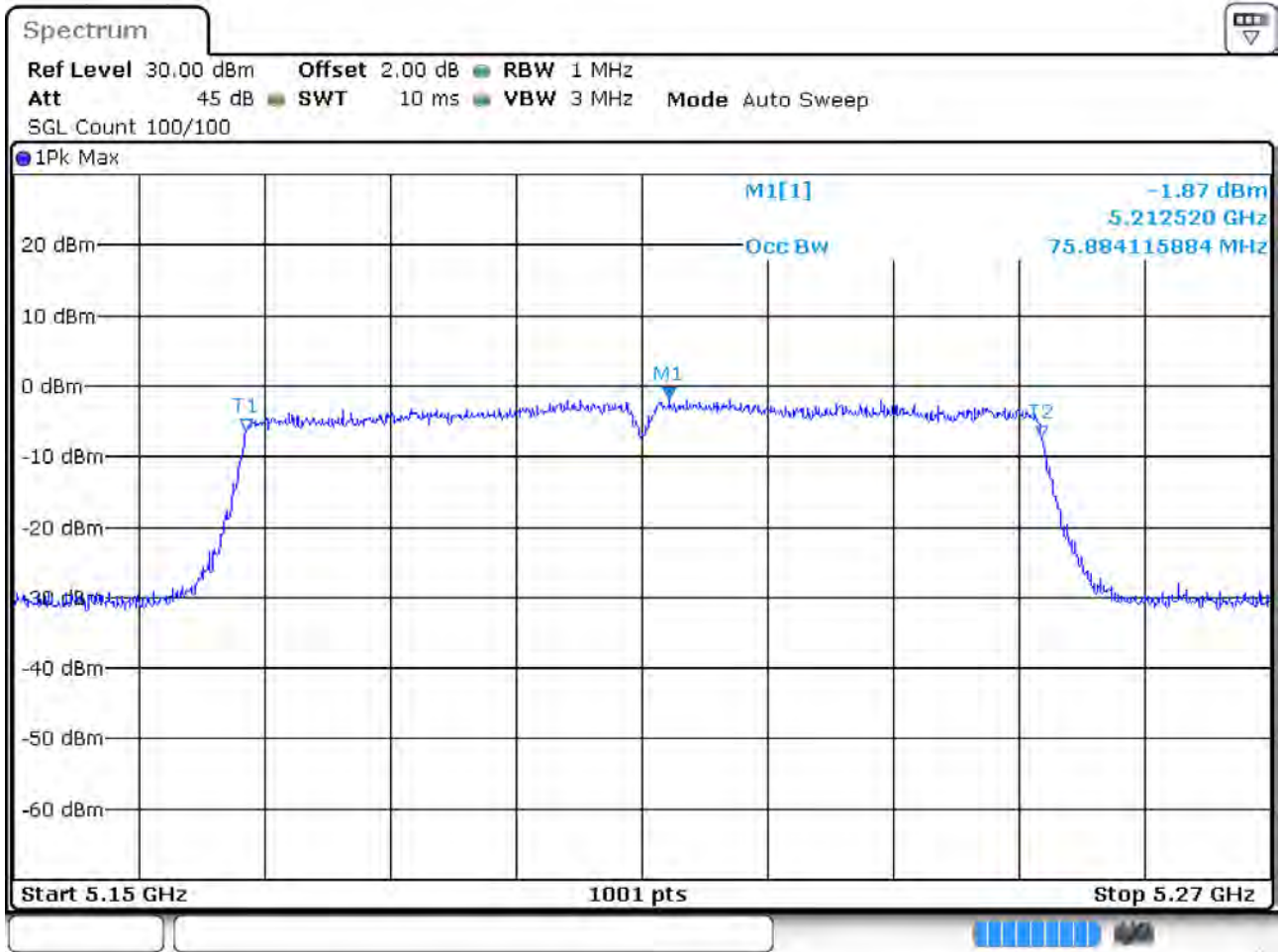


Date: 30 JUL 2019 04:01:30



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4.7.2.146 11AC80_42 ANT 2



Date: 30 JUL 2019 03:49:43

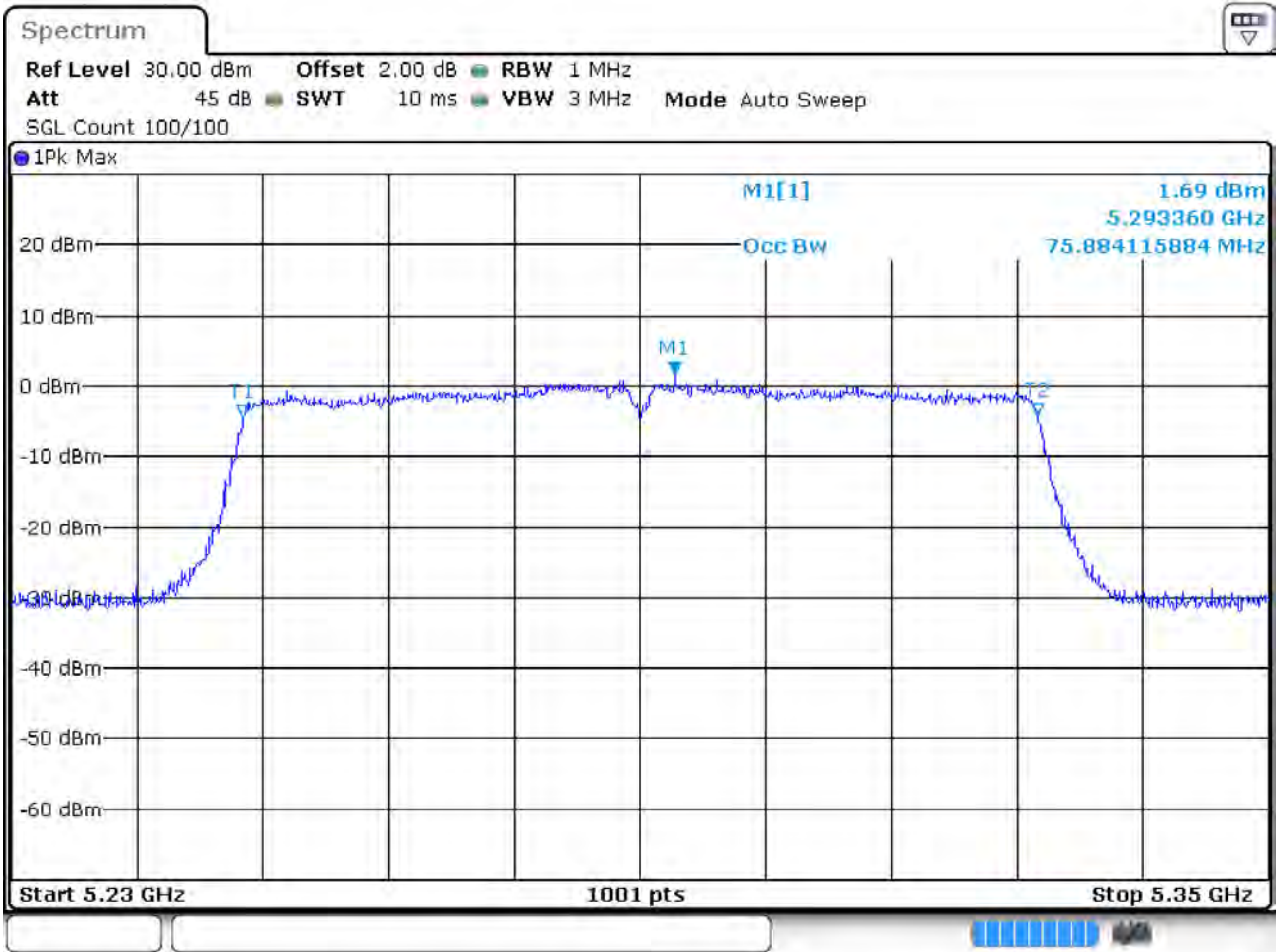


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4.7.2.147 11AC80_58 ANT 1



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.7.2.148 11AC80_58 ANT 2

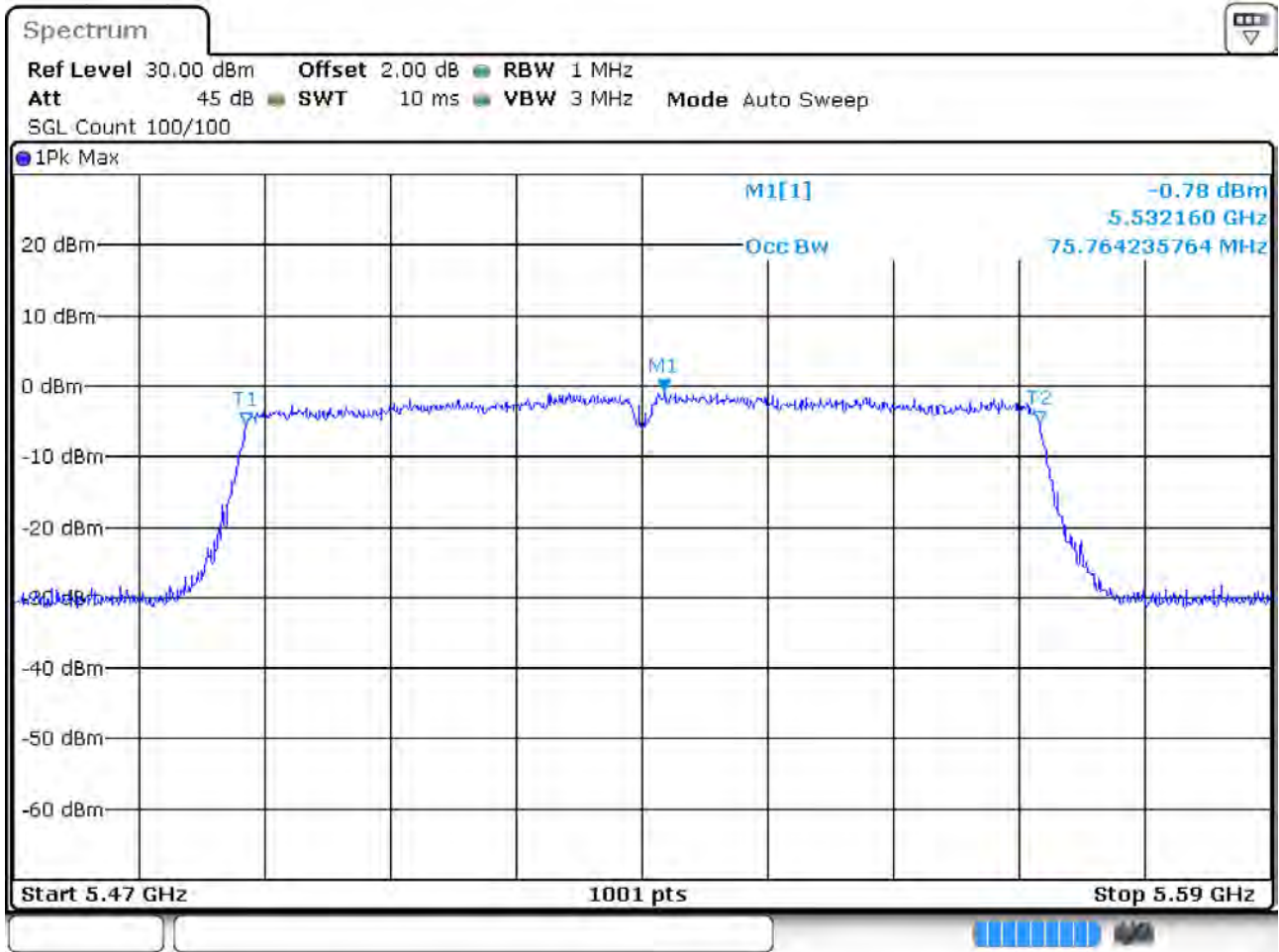


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4.7.2.149 11AC80_106 ANT 1



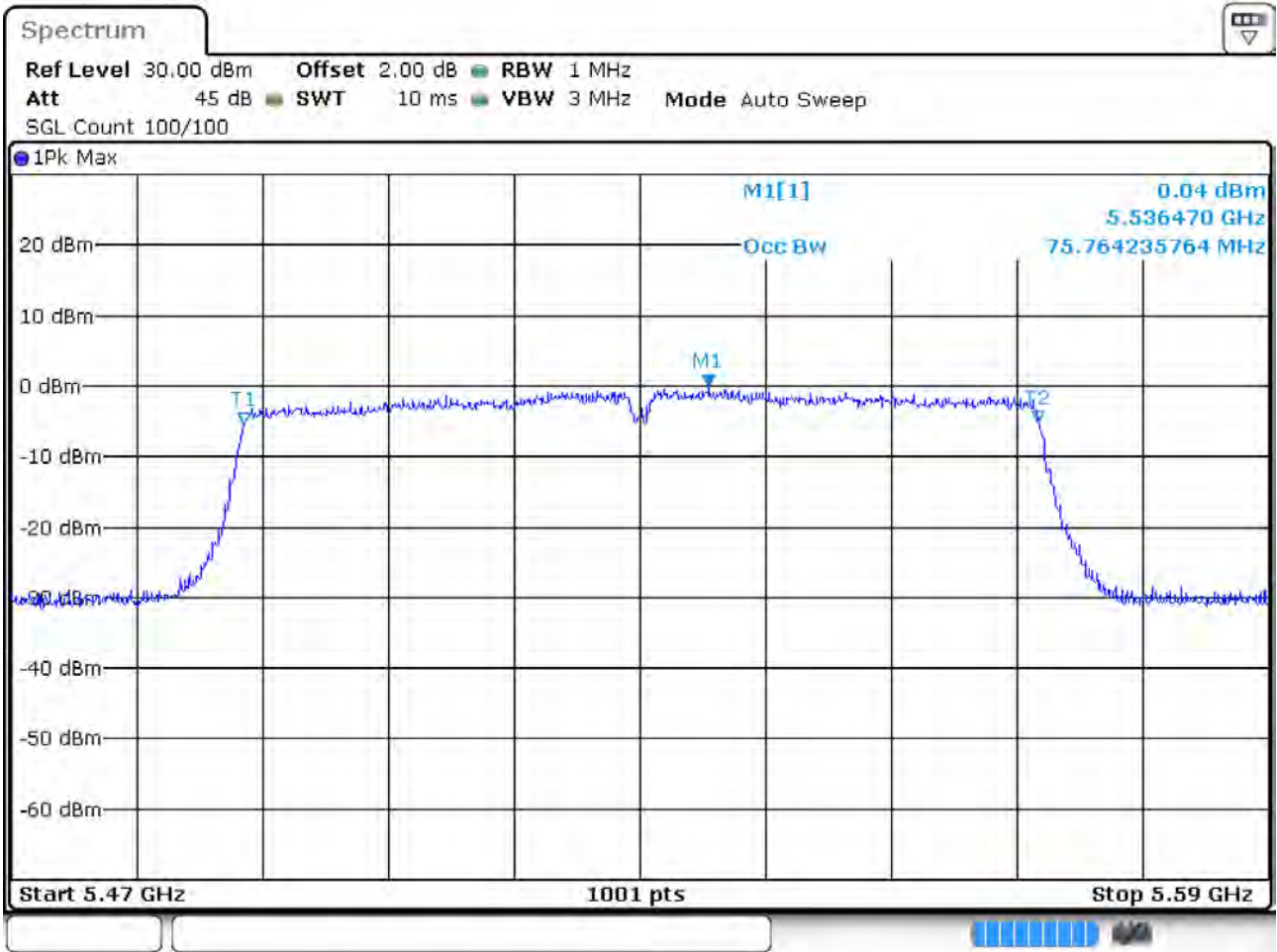
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4.7.2.150 11AC80_106 ANT 2



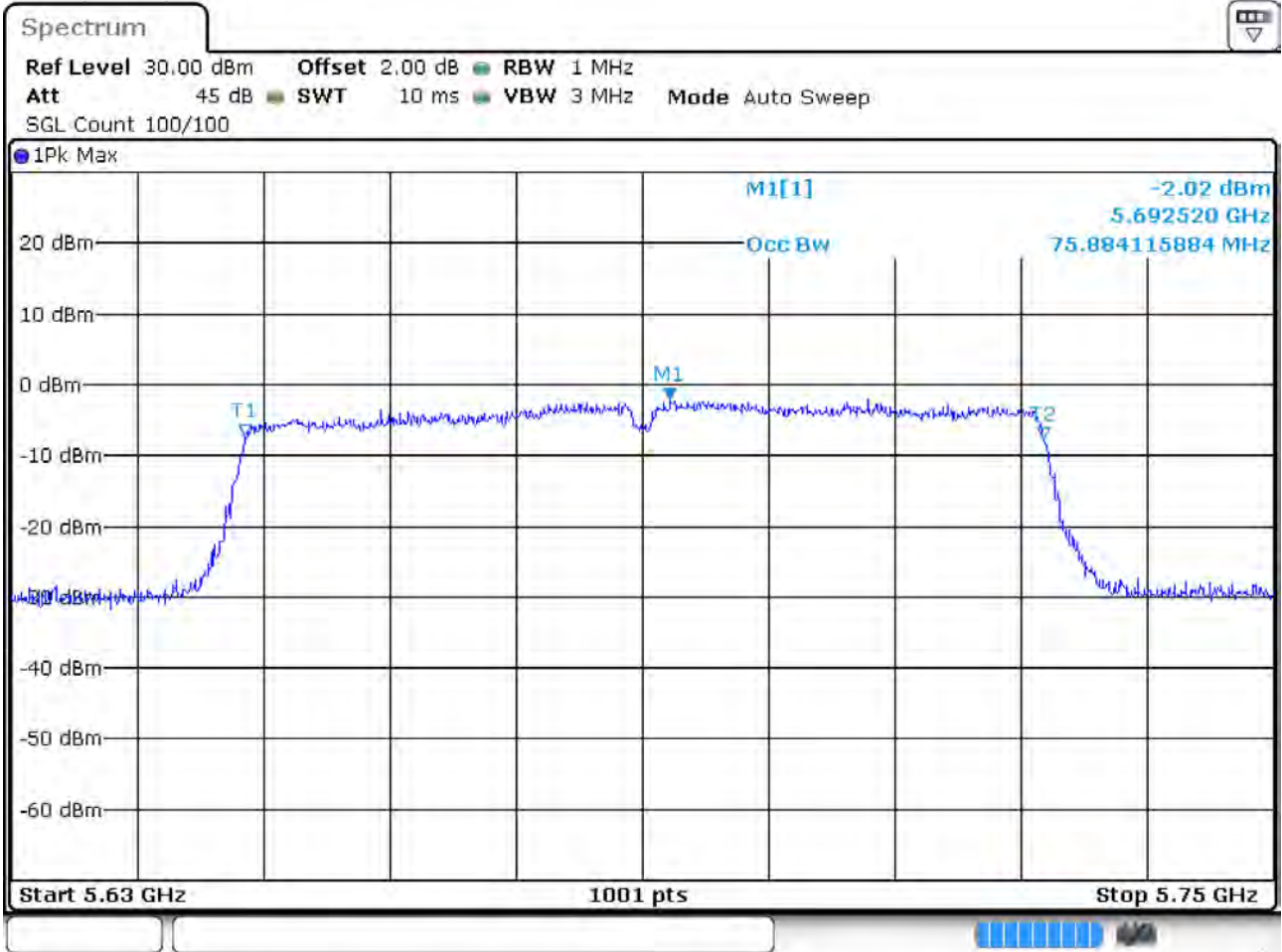
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4.7.2.151 11AC80_138 ANT 1

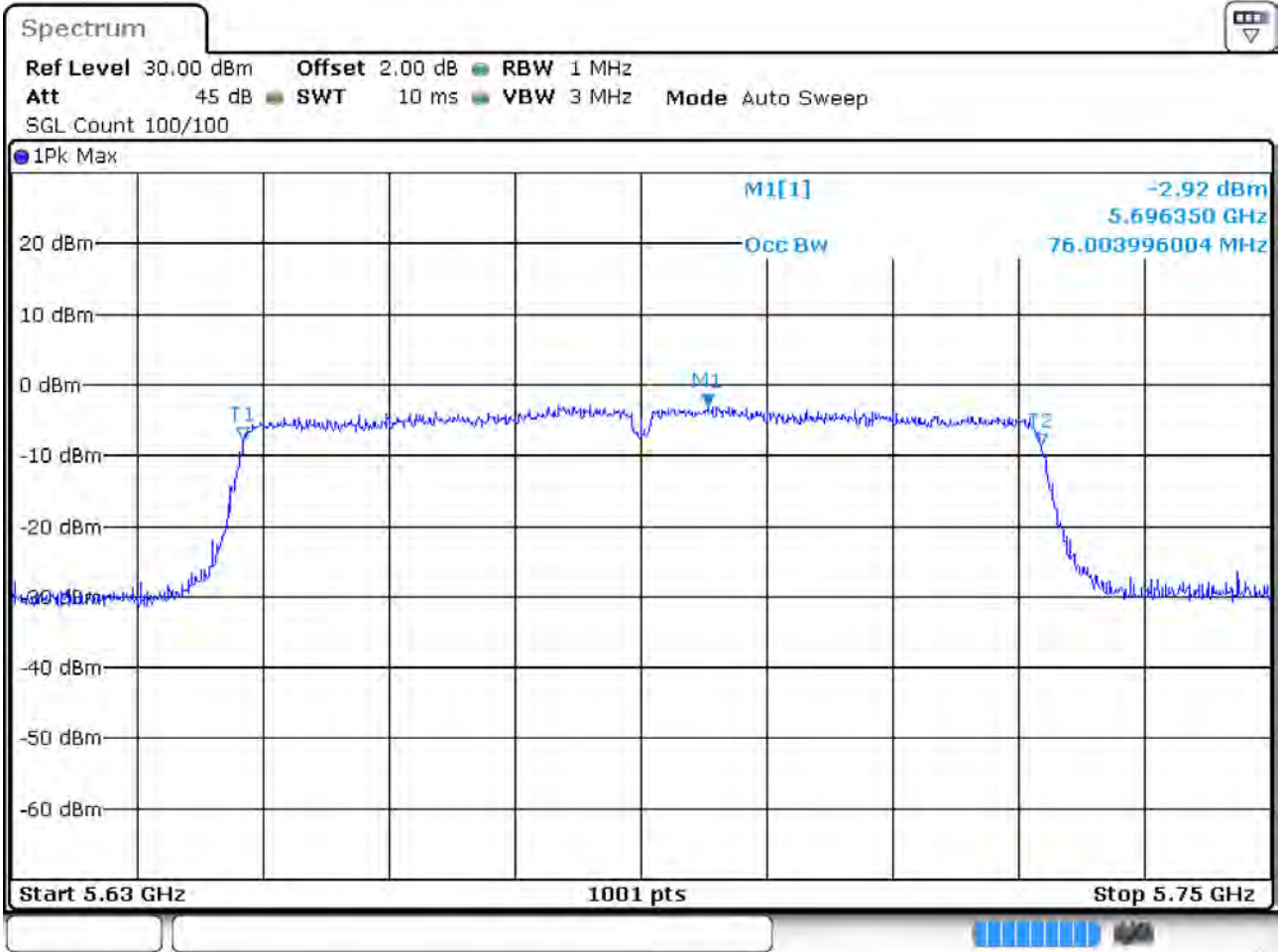


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4.7.2.152 11AC80_138 ANT 2

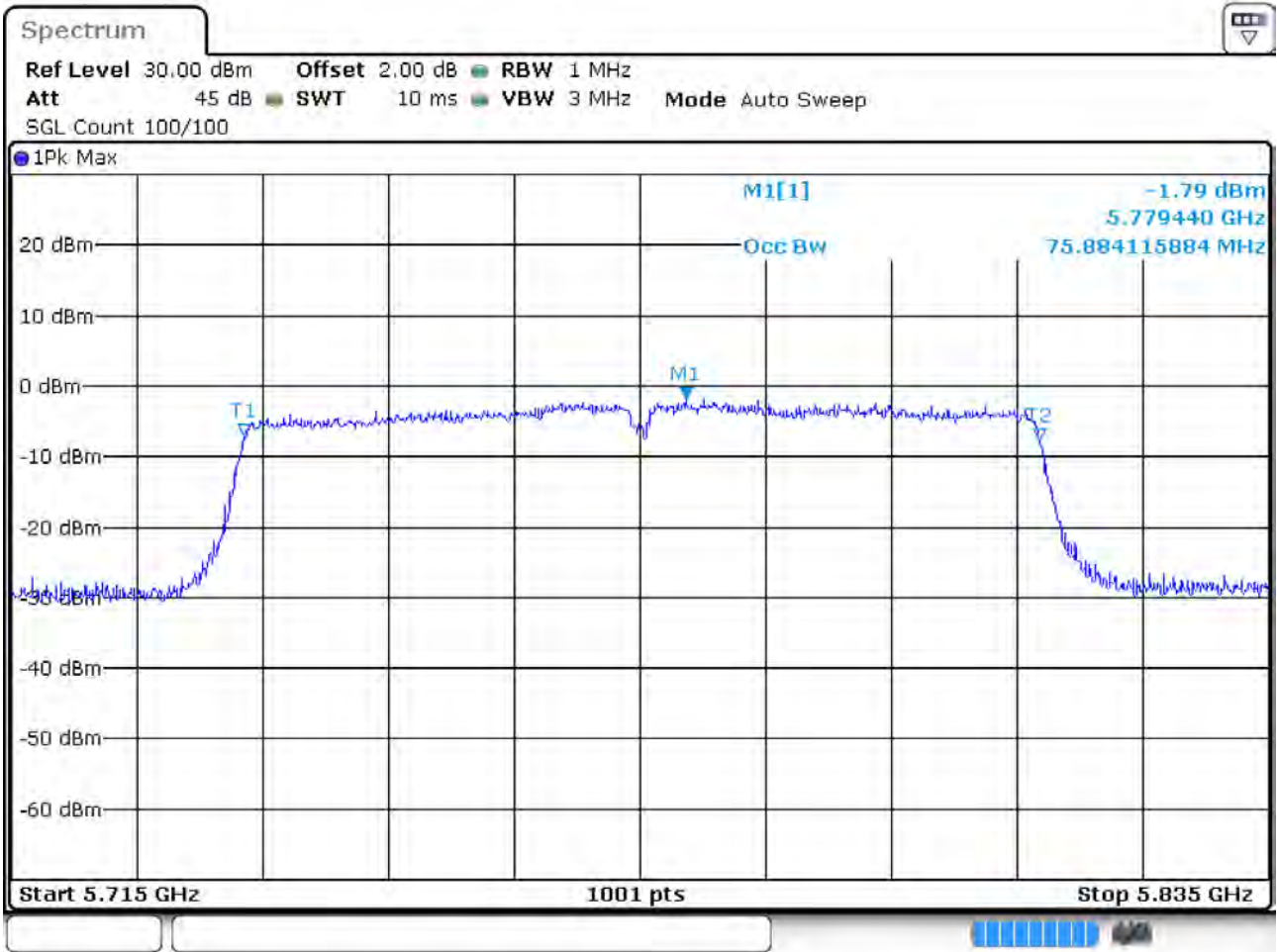


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4.7.2.153 11AC80_155 ANT 1



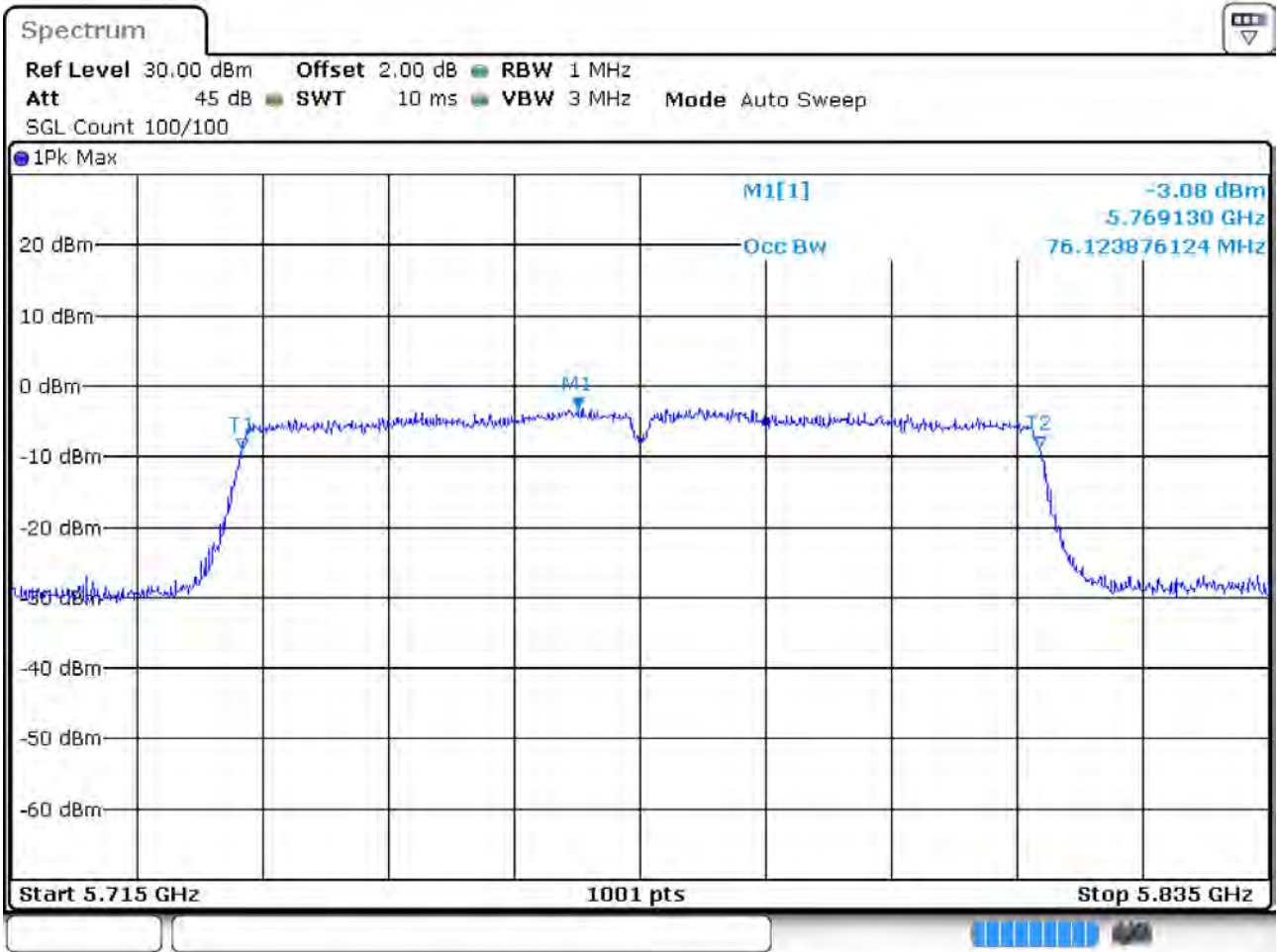
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4.7.2.154 11AC80_155 ANT 2

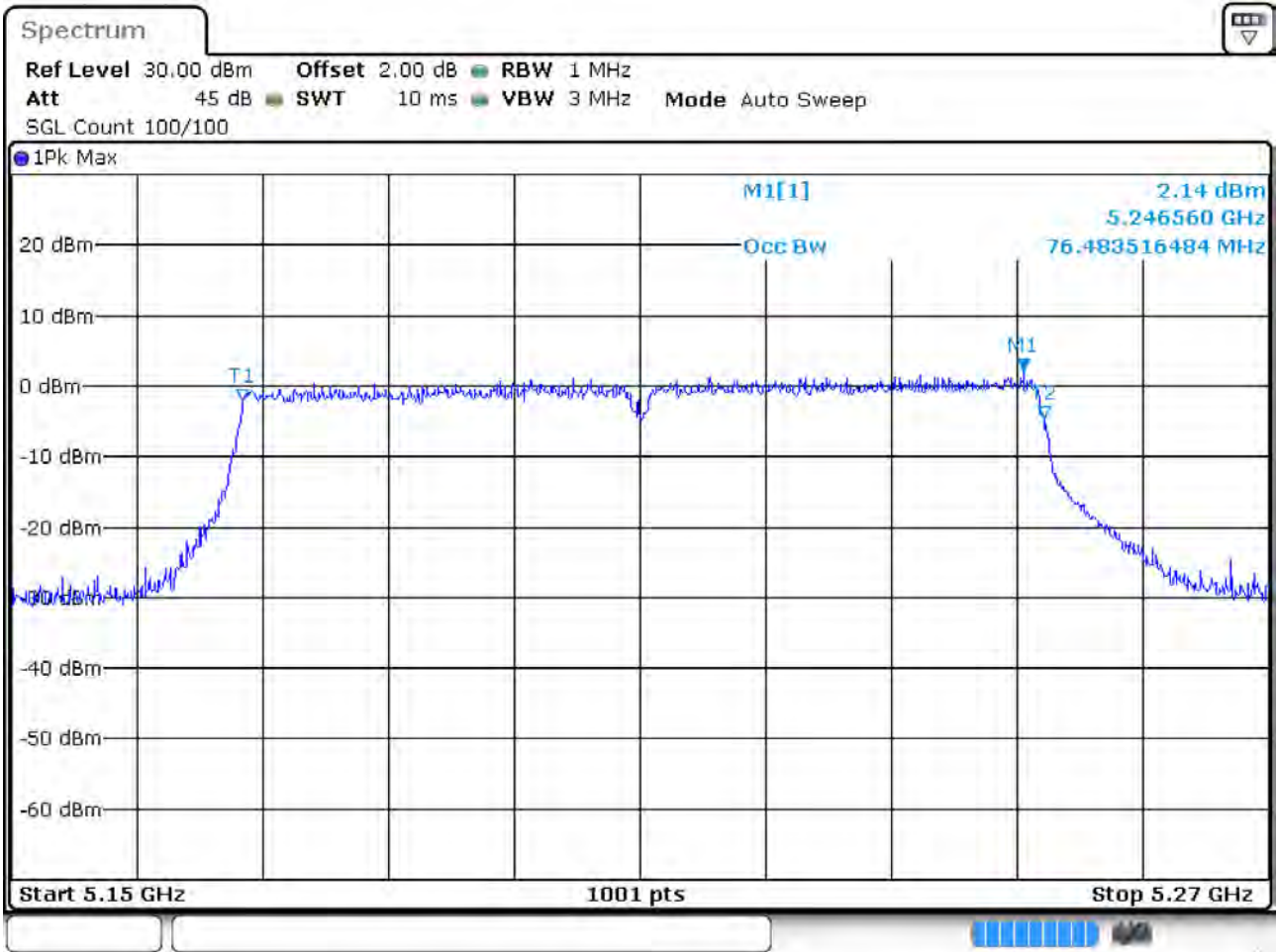


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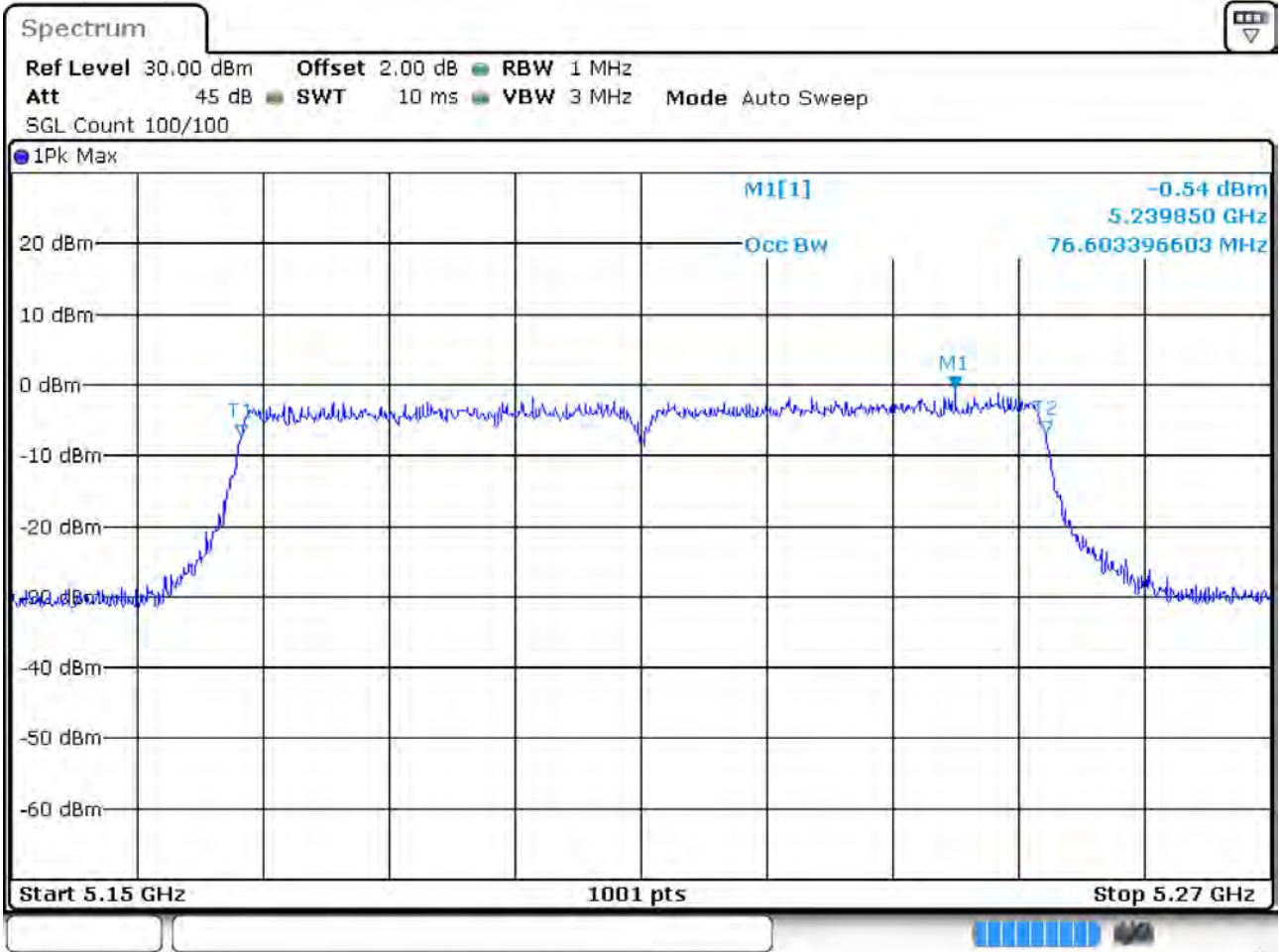
4.7.2.155 11AC80MIMO_42 ANT 1



Date: 30 JUL 2019 21:02:10



4.7.2.156 11AC80MIMO_42 ANT 2



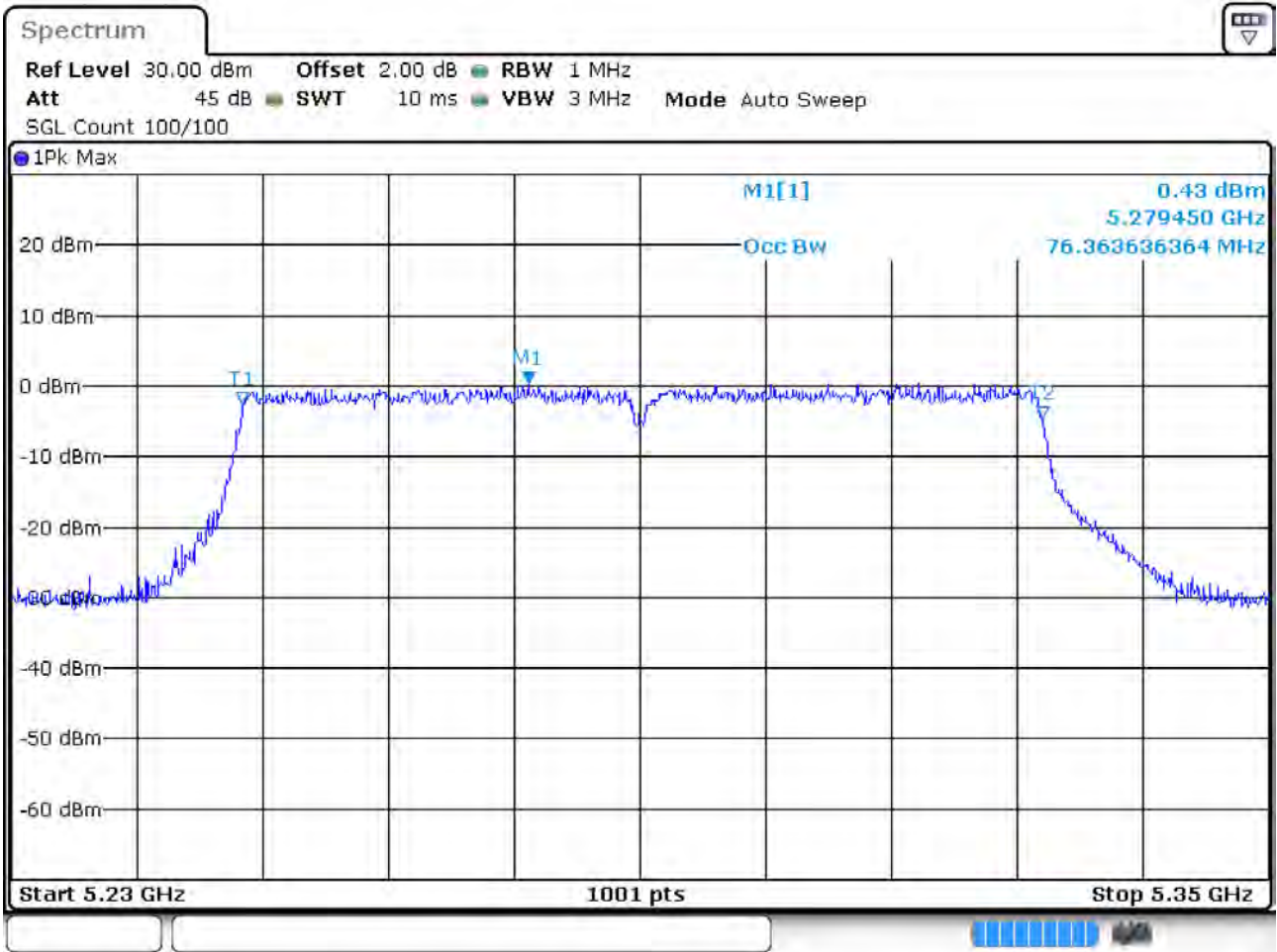
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4.7.2.157 11AC80MIMO_58 ANT 1

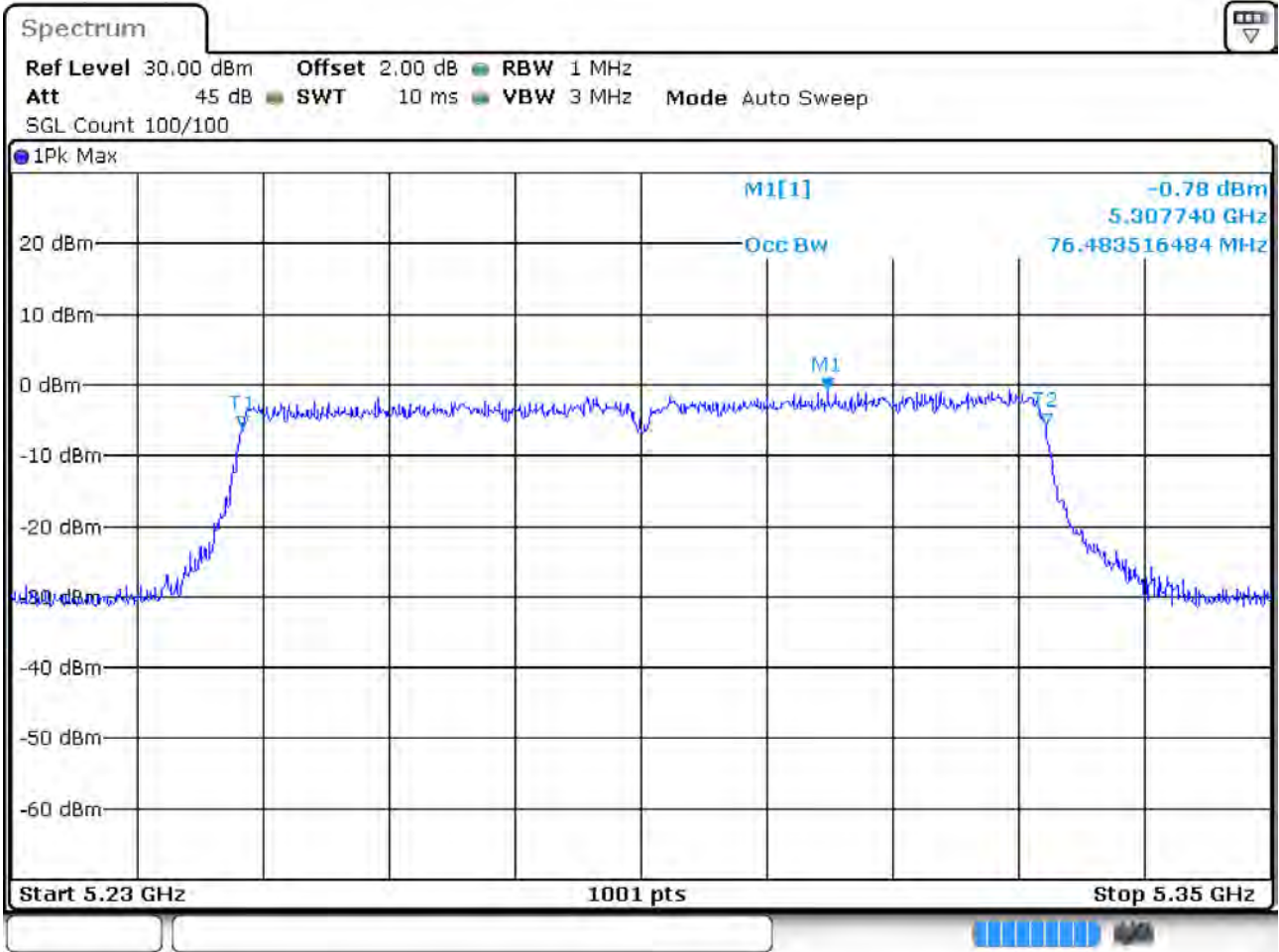


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4.7.2.158 11AC80MIMO_58 ANT 2

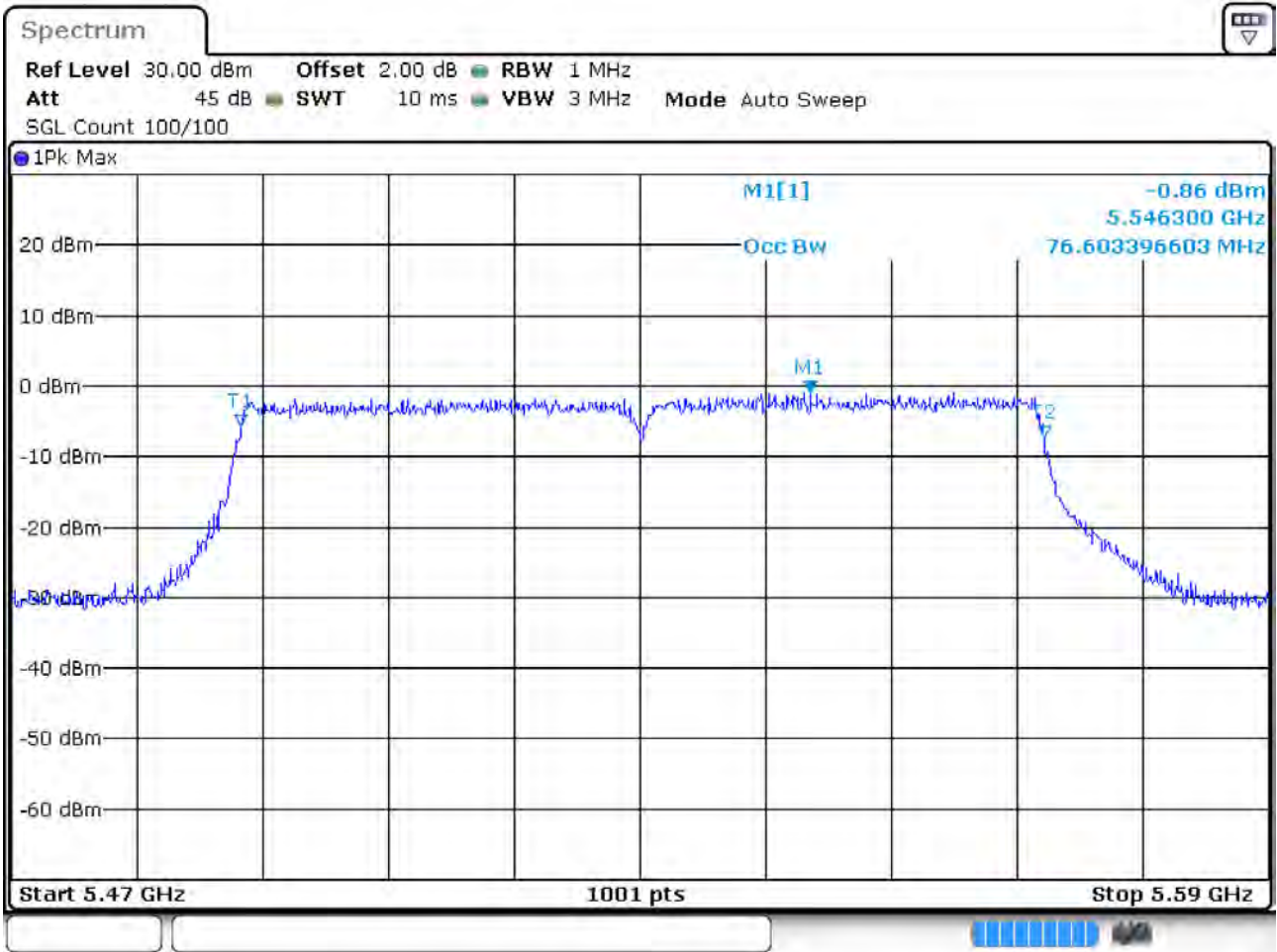


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4.7.2.159 11AC80MIMO_106 ANT 1

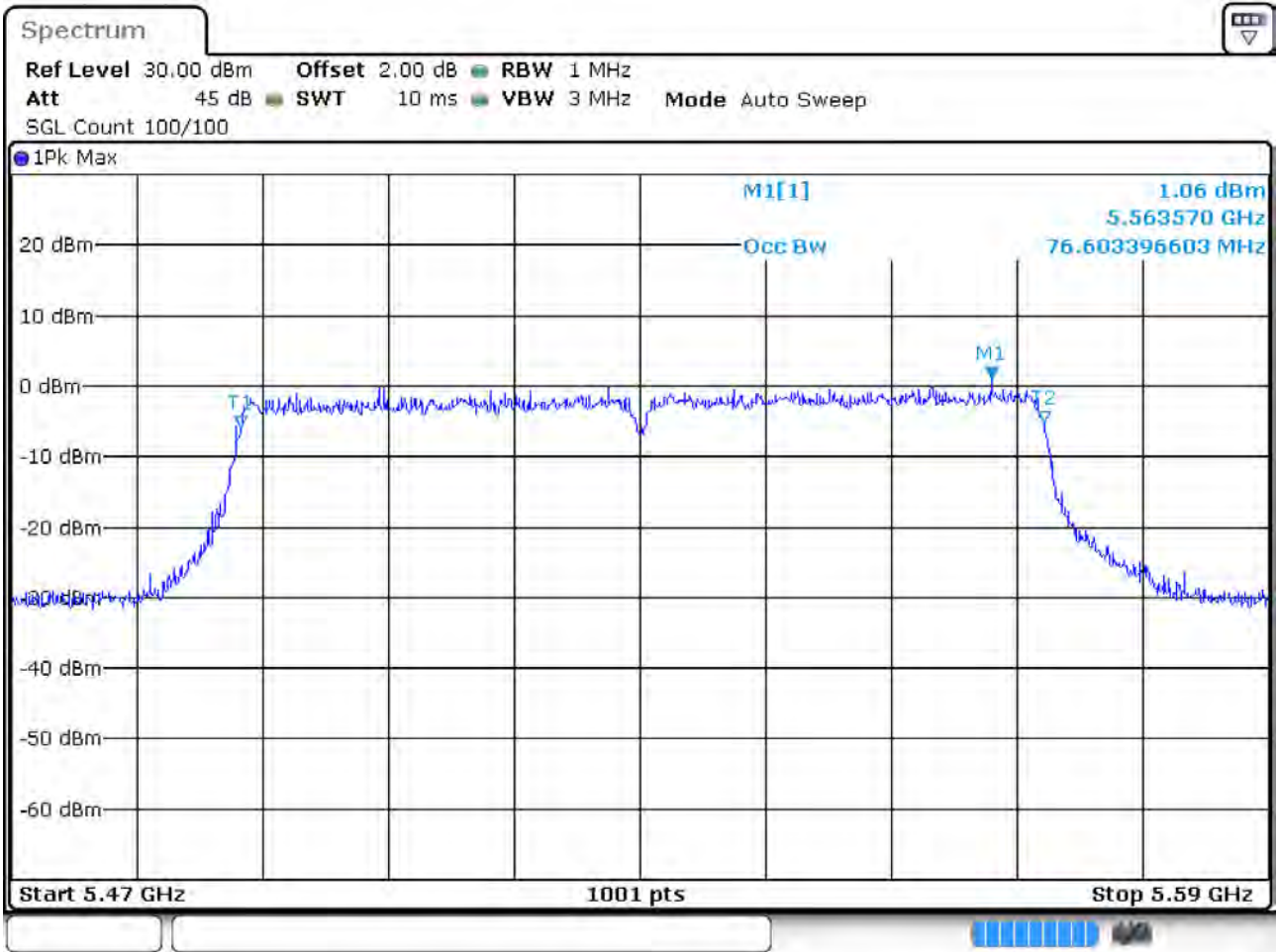


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4.7.2.160 11AC80MIMO_106 ANT 2

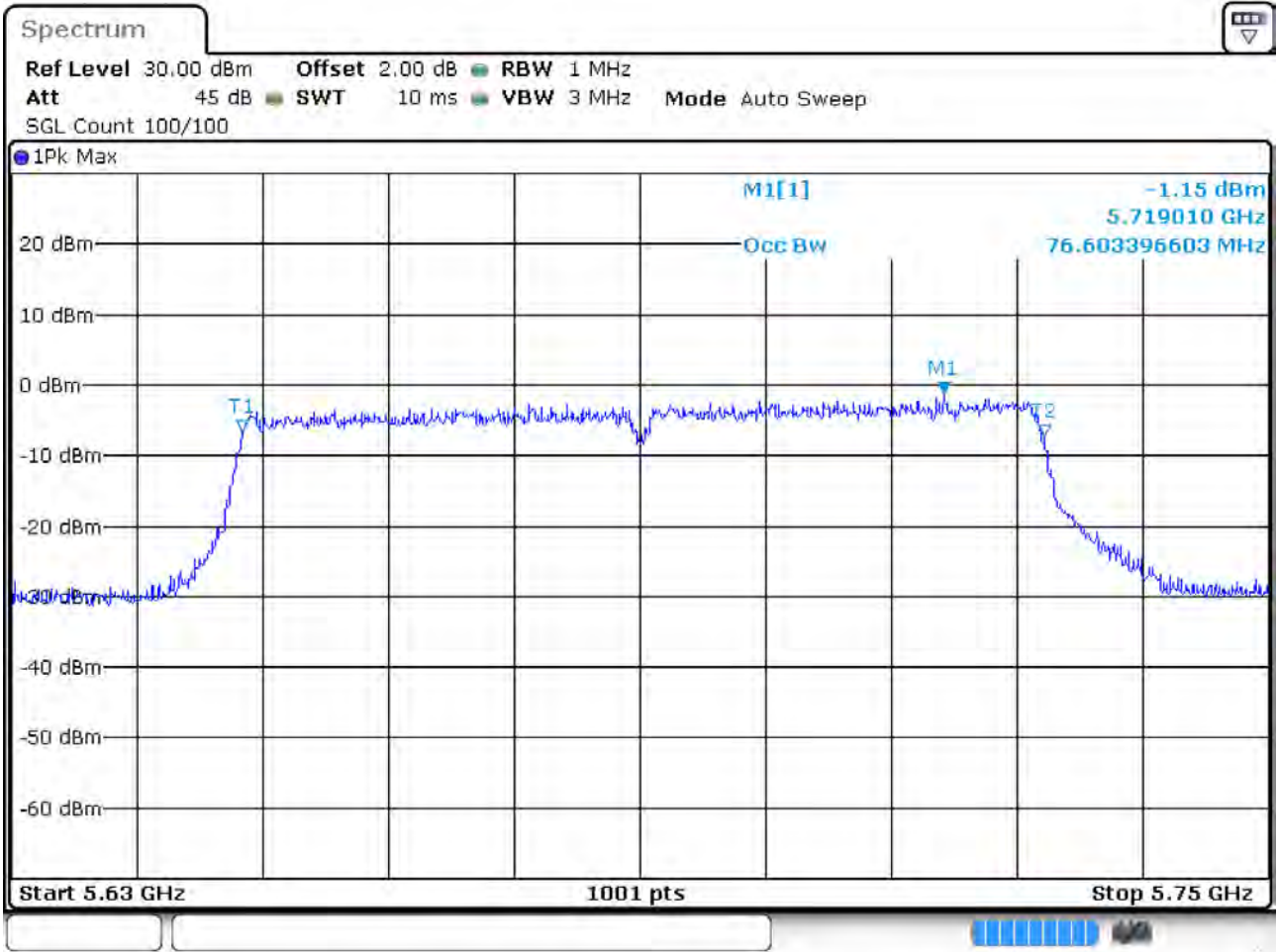


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4.7.2.161 11AC80MIMO_138 ANT 1



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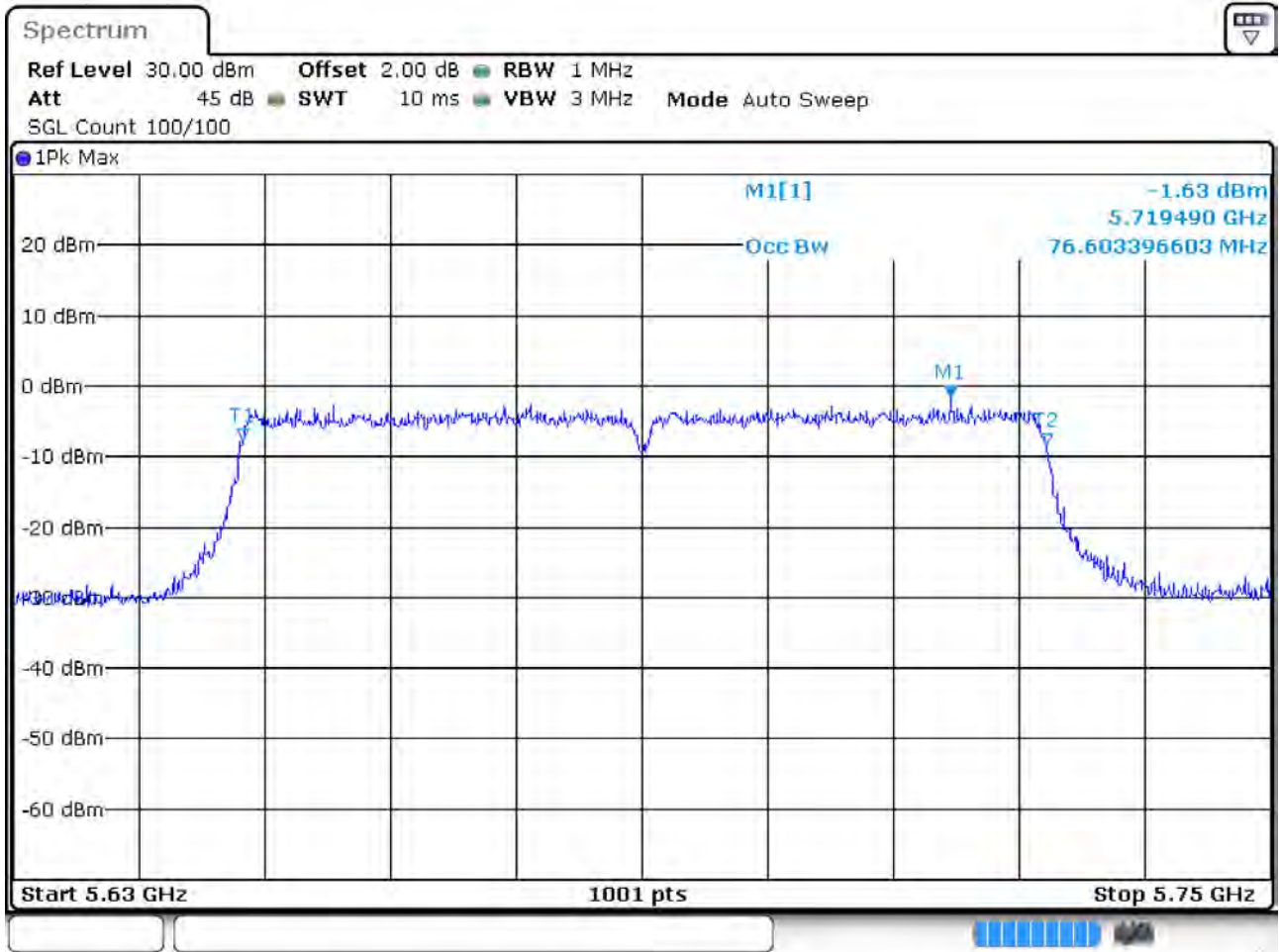


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4.7.2.162 11AC80MIMO_138 ANT 2

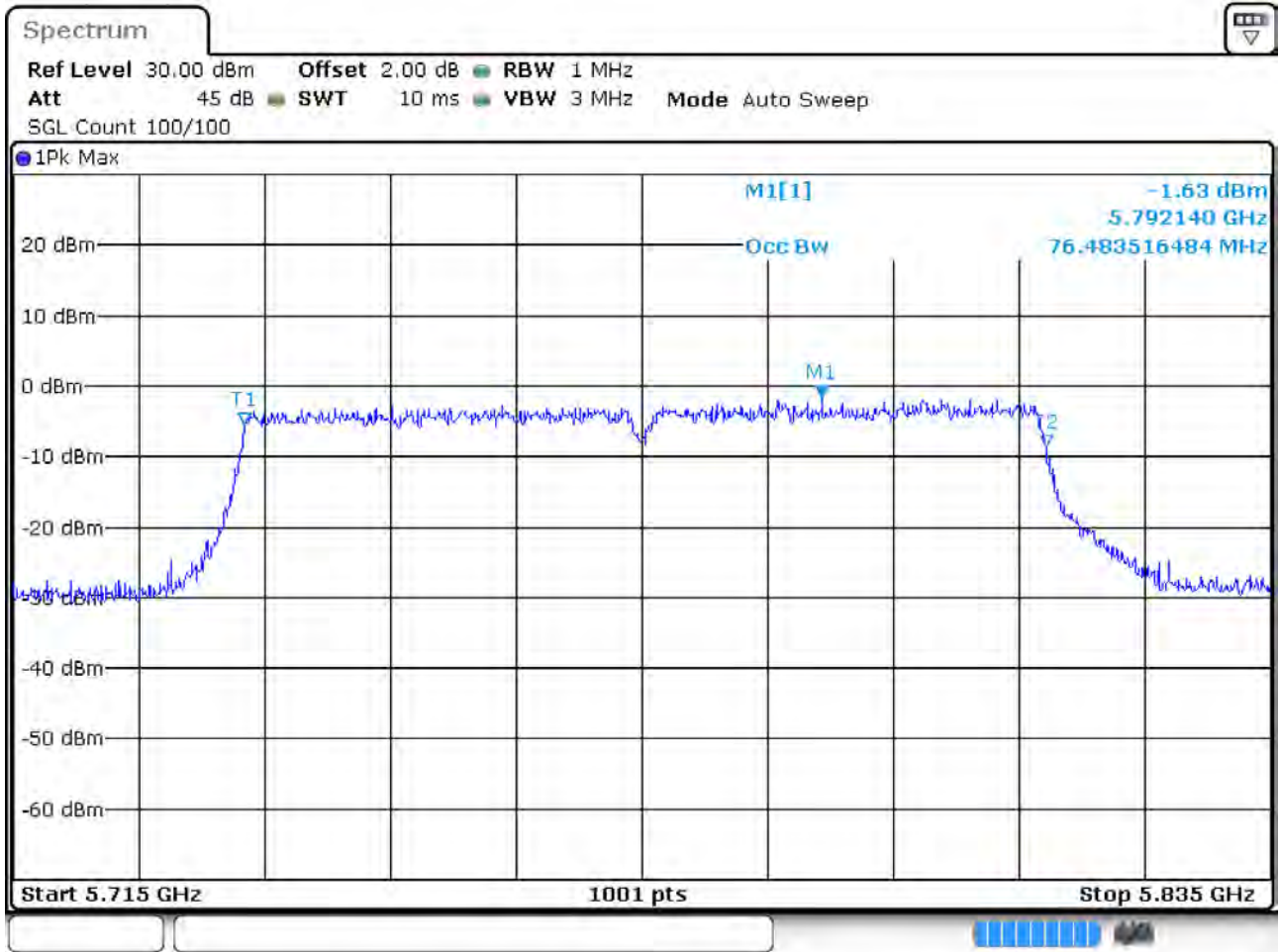


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4.7.2.163 11AC80MIMO_155 ANT 1



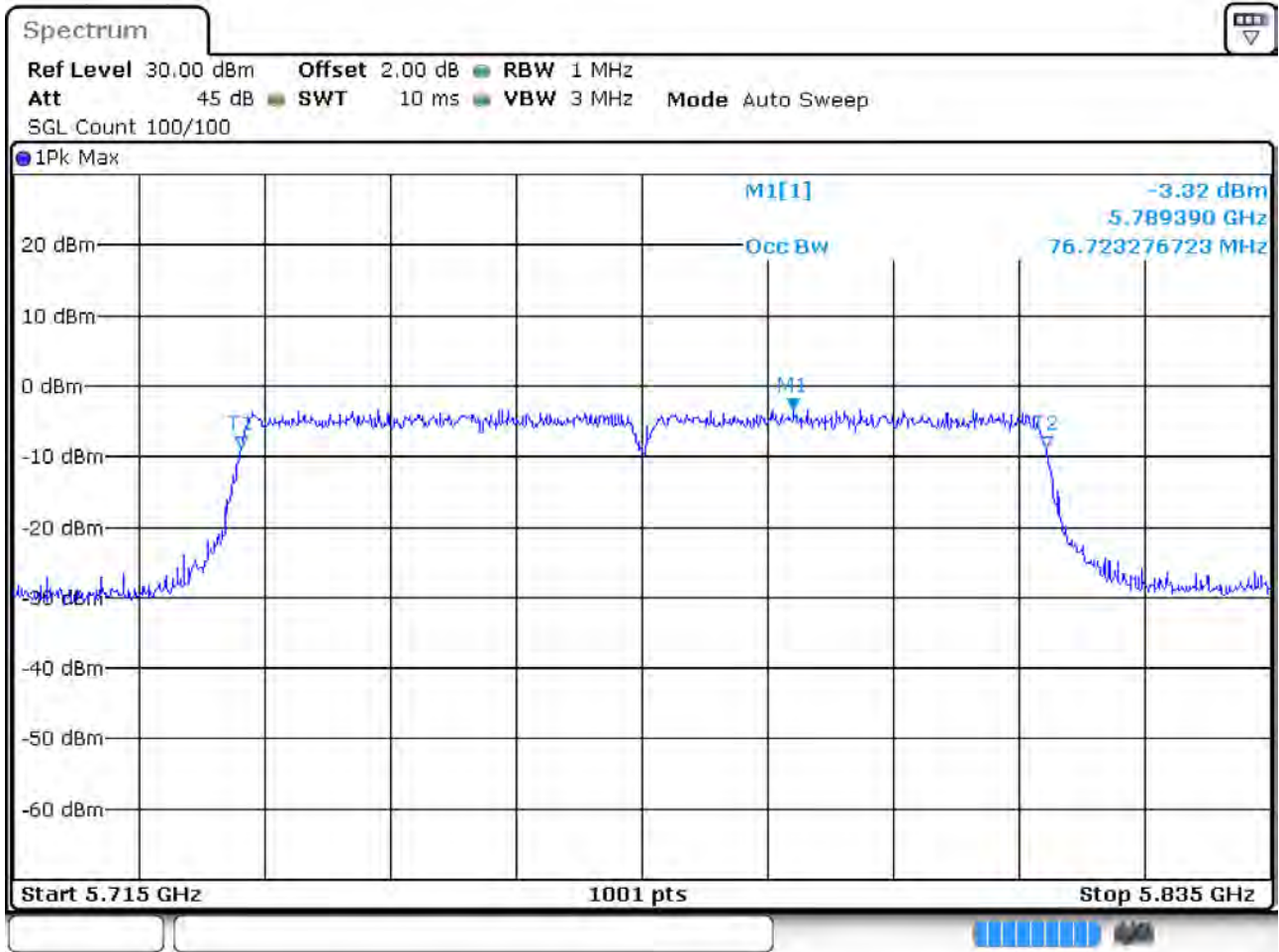
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4.7.2.164 11AC80MIMO_155 ANT 2



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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:	<p>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); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.</p>	
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	



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4.8.1 Test Results For Power Density

Test Mode	Test Channel	Frequency [MHz]	Meas. Level (Cond.) [dBm]			Verdict
			ANT 1	ANT 2	SUM	
11A20	36	5180	1.57	1.67	---	PASS
	48	5240	1.35	2	---	PASS
	52	5260	1.34	2.12	---	PASS
	64	5320	0.25	2.47	---	PASS
	100	5500	-0.34	3.54	---	PASS
	140	5700	-1.34	1.03	---	PASS
	149	5745	-1.99	0.12	---	PASS
	165	5825	-2.09	-0.4	---	PASS
11N20	36	5180	1.8	-0.46	---	PASS
	48	5240	1.51	-0.11	---	PASS
	52	5260	1.46	0.09	---	PASS
	64	5320	0.32	0.54	---	PASS
	100	5500	-0.22	1.71	---	PASS
	140	5700	-1.74	-1.33	---	PASS
	149	5745	-2.16	-1.82	---	PASS
	165	5825	-2.14	-2.83	---	PASS
11N20 MIMO	36	5180	2.08	-0.64	3.94	PASS
	48	5240	1.99	-0.27	4.02	PASS
	52	5260	1.88	-0.45	3.88	PASS
	64	5320	0.65	0.27	3.47	PASS
	100	5500	0.51	1.83	4.23	PASS
	140	5700	-0.96	-1.71	1.69	PASS
	149	5745	-1.77	-2.6	0.85	PASS
	165	5825	-1.37	-3.38	0.75	PASS
11N40	38	5190	-1.21	-3.2	---	PASS
	46	5230	-0.67	-2.96	---	PASS
	54	5270	-1.08	-2.36	---	PASS
	62	5310	-2.12	-2.54	---	PASS
	102	5510	-3.08	-1.2	---	PASS
	134	5670	-3.92	-3.44	---	PASS
	151	5755	-5.24	-5.24	---	PASS
	159	5795	-6	-5.61	---	PASS
11N40 MIMO	38	5190	-0.29	-2.55	---	PASS
	46	5230	0.02	-2.64	1.90	PASS
	54	5270	-0.51	-2.3	1.70	PASS
	62	5310	-1.32	-2.1	1.32	PASS
	102	5510	-2.15	-0.58	1.72	PASS
	134	5670	-3.53	-2.99	-0.24	PASS
	151	5755	-4.02	-5.34	-1.62	PASS
	159	5795	-4.8	-5.26	-2.01	PASS
11AC20	36	5180	1.72	-0.37	---	PASS
	48	5240	1.61	-0.12	---	PASS



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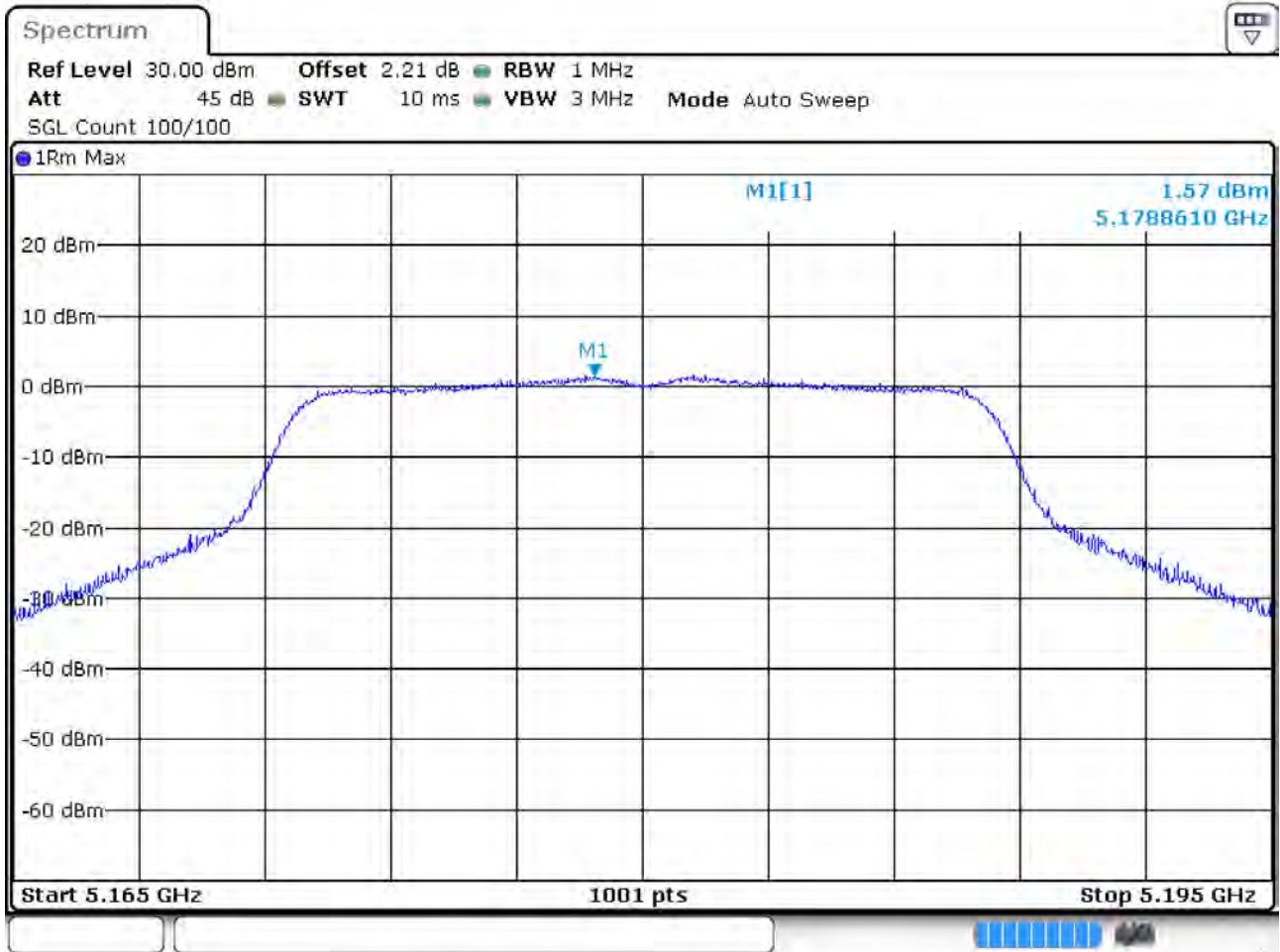
	52	5260	1.48	0.29	---	PASS
	64	5320	-35.94	0.86	---	PASS
	100	5500	-0.5	1.82	---	PASS
	140	5700	-1.25	-1.15	---	PASS
	149	5745	-2.35	-1.88	---	PASS
	165	5825	-2.39	-2.81	---	PASS
11AC20 MIMO	36	5180	3.61	0.79	5.44	PASS
	48	5240	3.73	0.43	5.40	PASS
	52	5260	2.94	0.69	4.97	PASS
	64	5320	1.77	1.15	4.48	PASS
	100	5500	1.65	2.03	4.85	PASS
	140	5700	0.65	-0.58	3.09	PASS
	149	5745	-2.03	-2.84	0.59	PASS
	165	5825	-1.69	-3.3	0.59	PASS
11AC40	38	5190	-1.09	-3.11	---	PASS
	46	5230	-0.95	-3.01	---	PASS
	54	5270	-1.43	-2.48	---	PASS
	62	5310	-2.08	-2.37	---	PASS
	102	5510	-3.01	-0.98	---	PASS
	134	5670	-4.33	-3.53	---	PASS
	151	5755	-5.33	-5.05	---	PASS
	159	5795	-5.6	-5.8	---	PASS
11AC40 MIMO	38	5190	0.86	-2.02	2.66	PASS
	46	5230	1.01	-1.49	2.95	PASS
	54	5270	0.46	-1.81	2.48	PASS
	62	5310	-0.24	-1.43	2.22	PASS
	102	5510	-0.96	0.11	2.62	PASS
	134	5670	-2.48	-2.56	0.49	PASS
	151	5755	-4.33	-5.19	-1.73	PASS
	159	5795	-4.62	-5.46	-2.01	PASS
11AC80	42	5210	-4.39	-7.7	---	PASS
	58	5290	-4.96	-7.07	---	PASS
	106	5530	-6.65	-6.09	---	PASS
	138	5690	-8.01	-8.58	---	PASS
	155	5775	-8.56	-9.51	---	PASS
11AC80 MIMO	42	5210	-2.24	-5.57	-0.58	PASS
	58	5290	-3.57	-4.6	-1.04	PASS
	106	5530	-5.04	-4.34	-1.67	PASS
	138	5690	-5.69	-6.7	-3.16	PASS
	155	5775	-7.61	-8.65	-5.09	PASS



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4.8.2 Test plots For Power Density
4.8.2.1 11A20_36 ANT 1



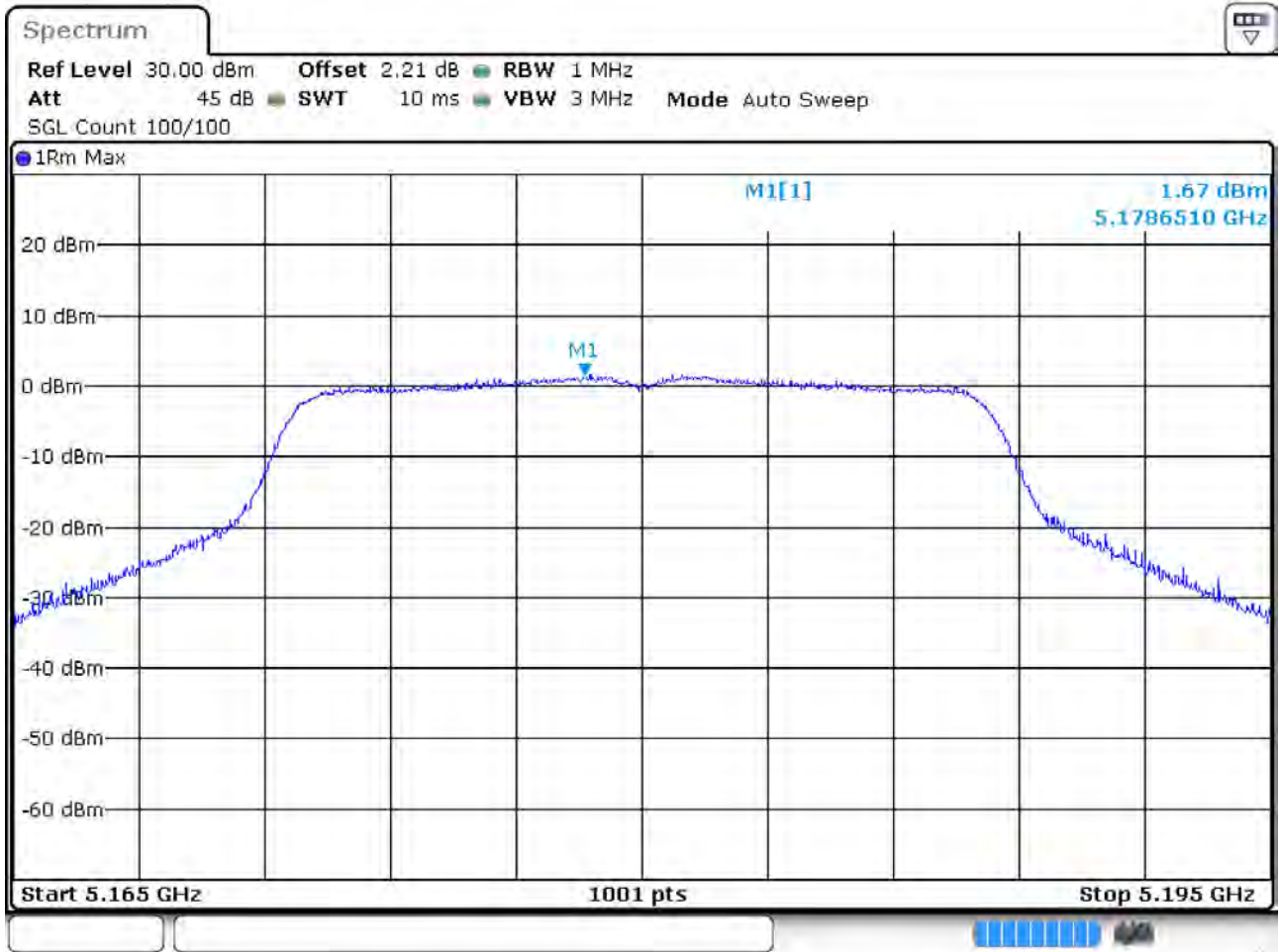
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4.8.2.2 11A20_36 ANT 2



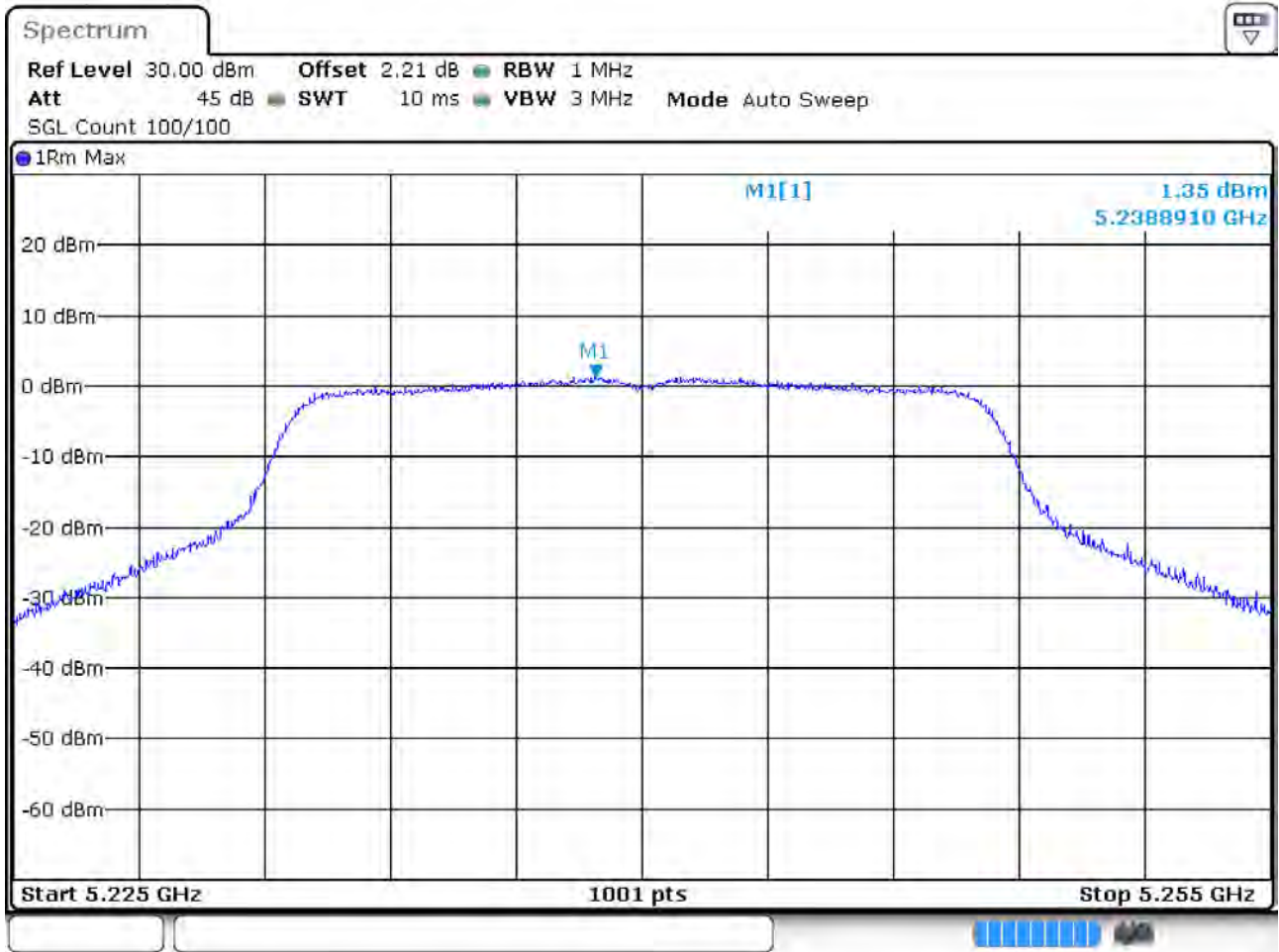
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4.8.2.3 11A20_48 ANT 1

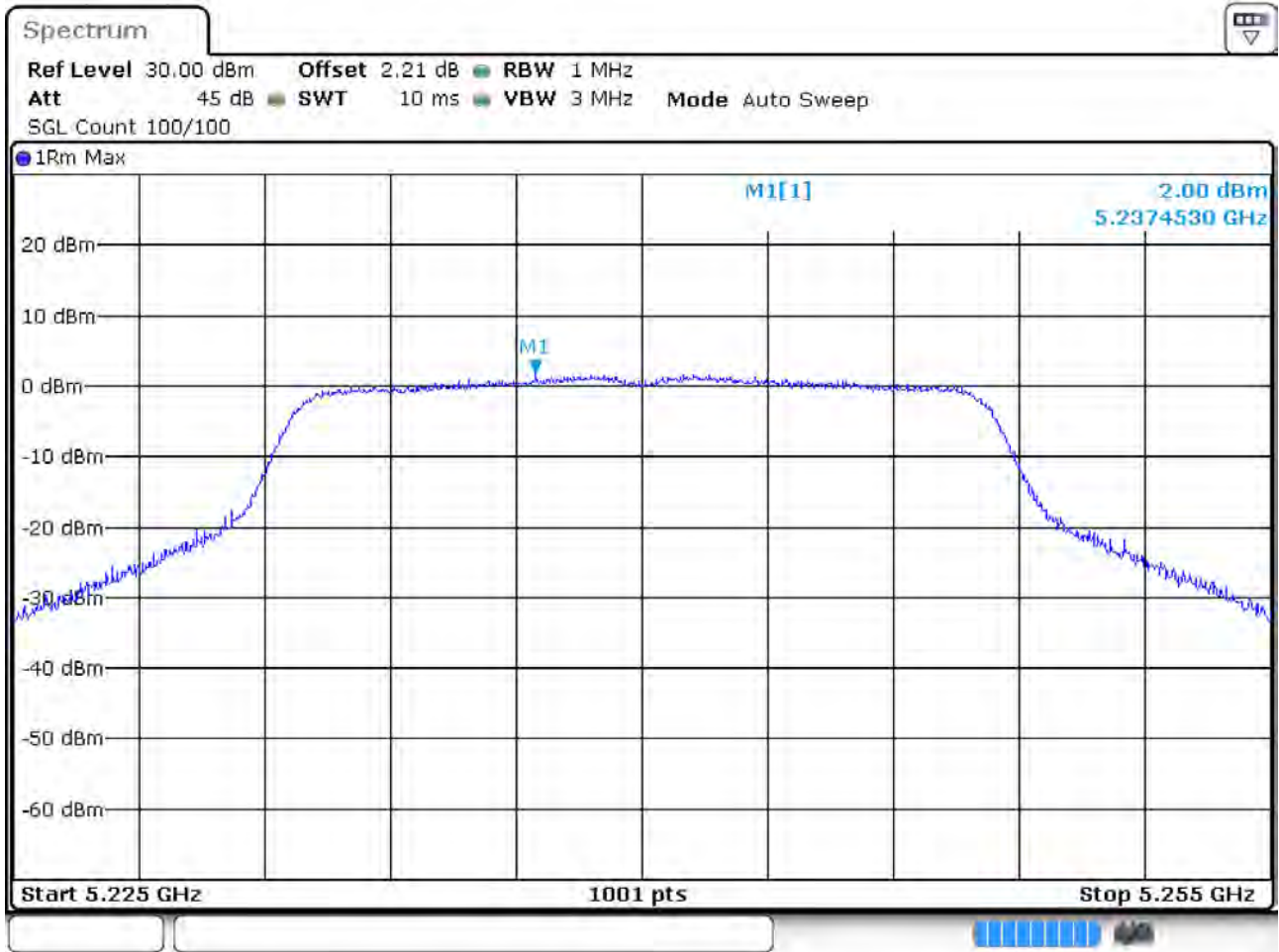


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4.8.2.4 11A20_48 ANT 2

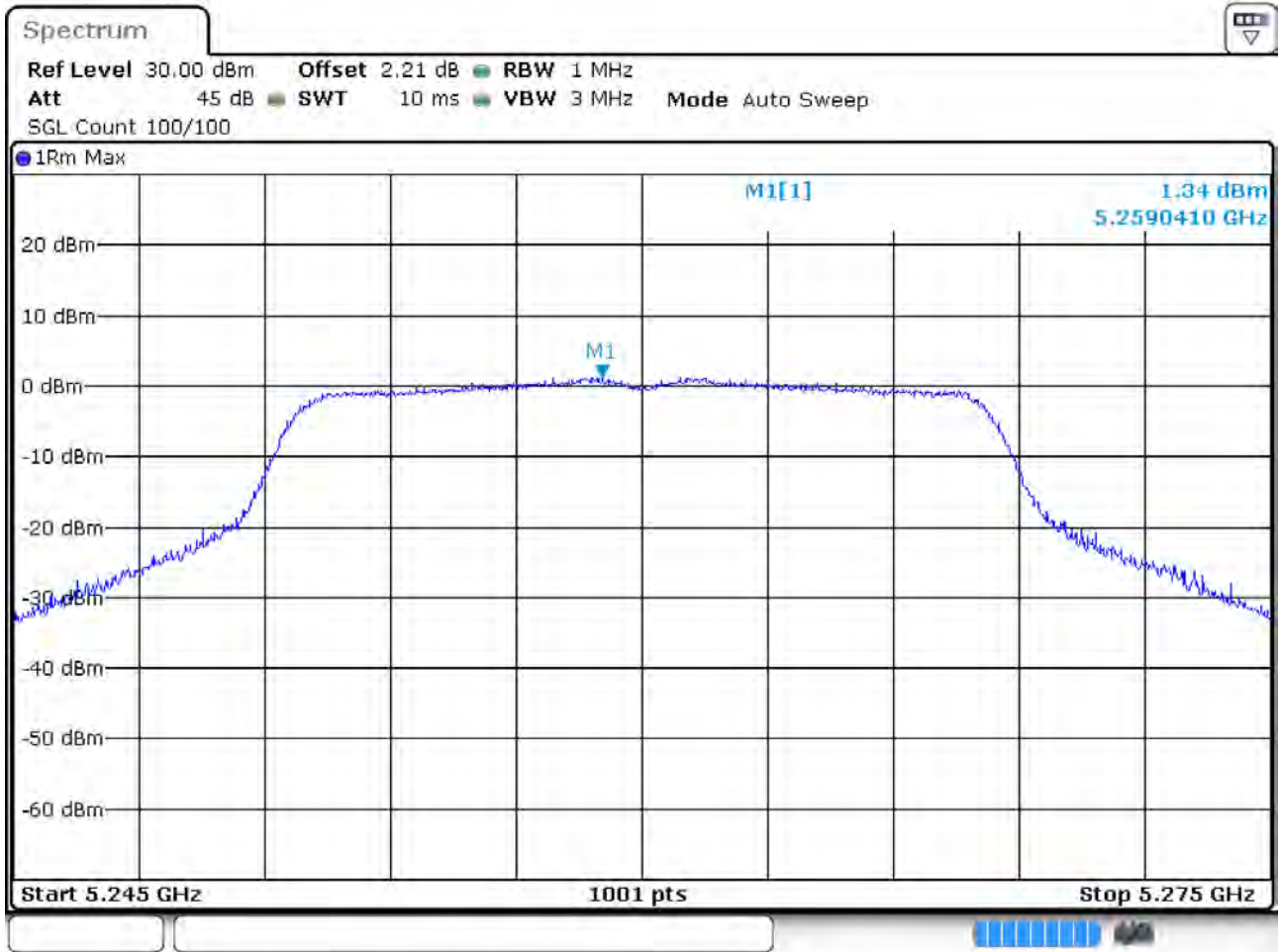


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4.8.2.5 11A20_52 ANT 1



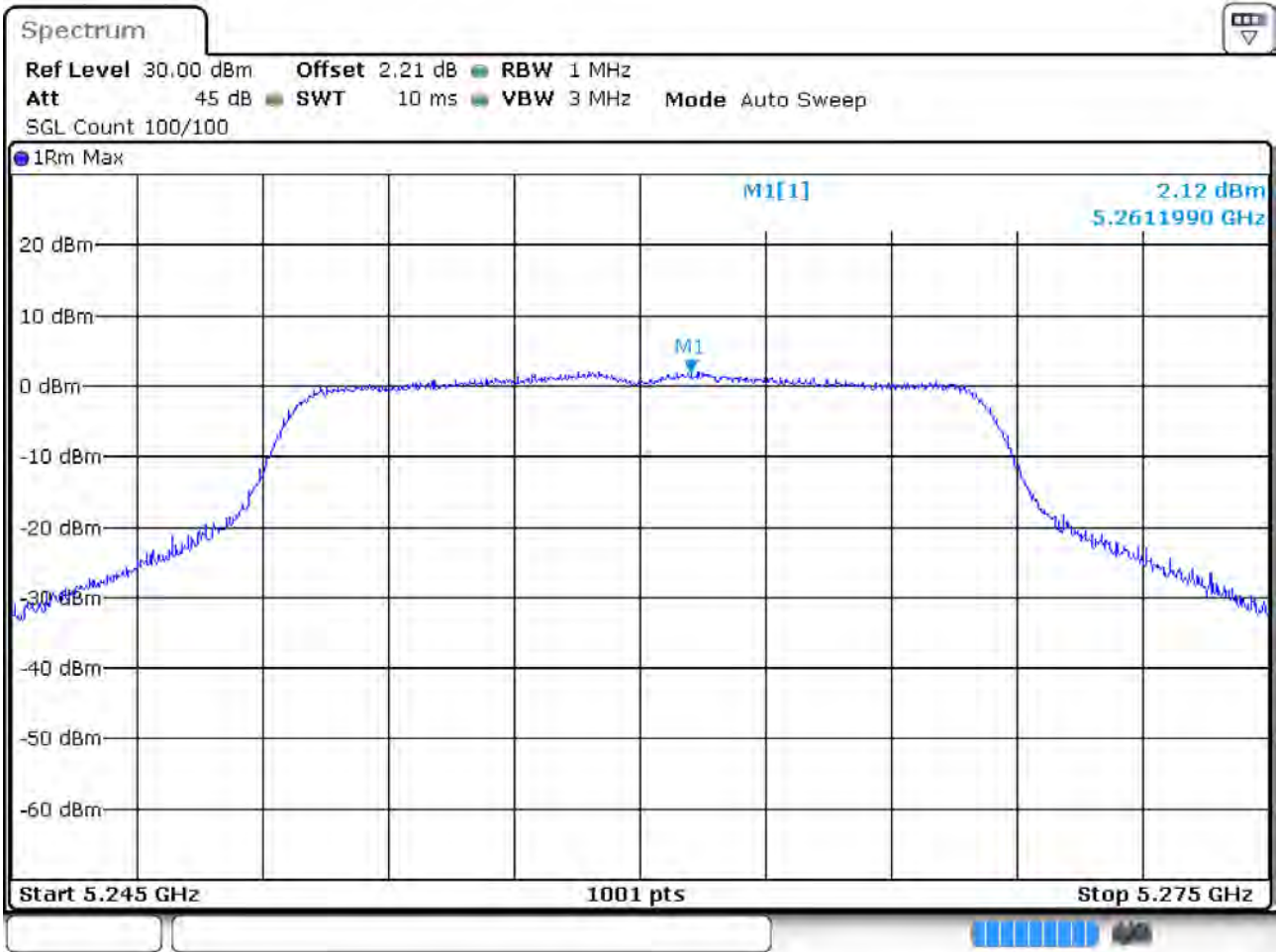
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4.8.2.6 11A20_52 ANT 2

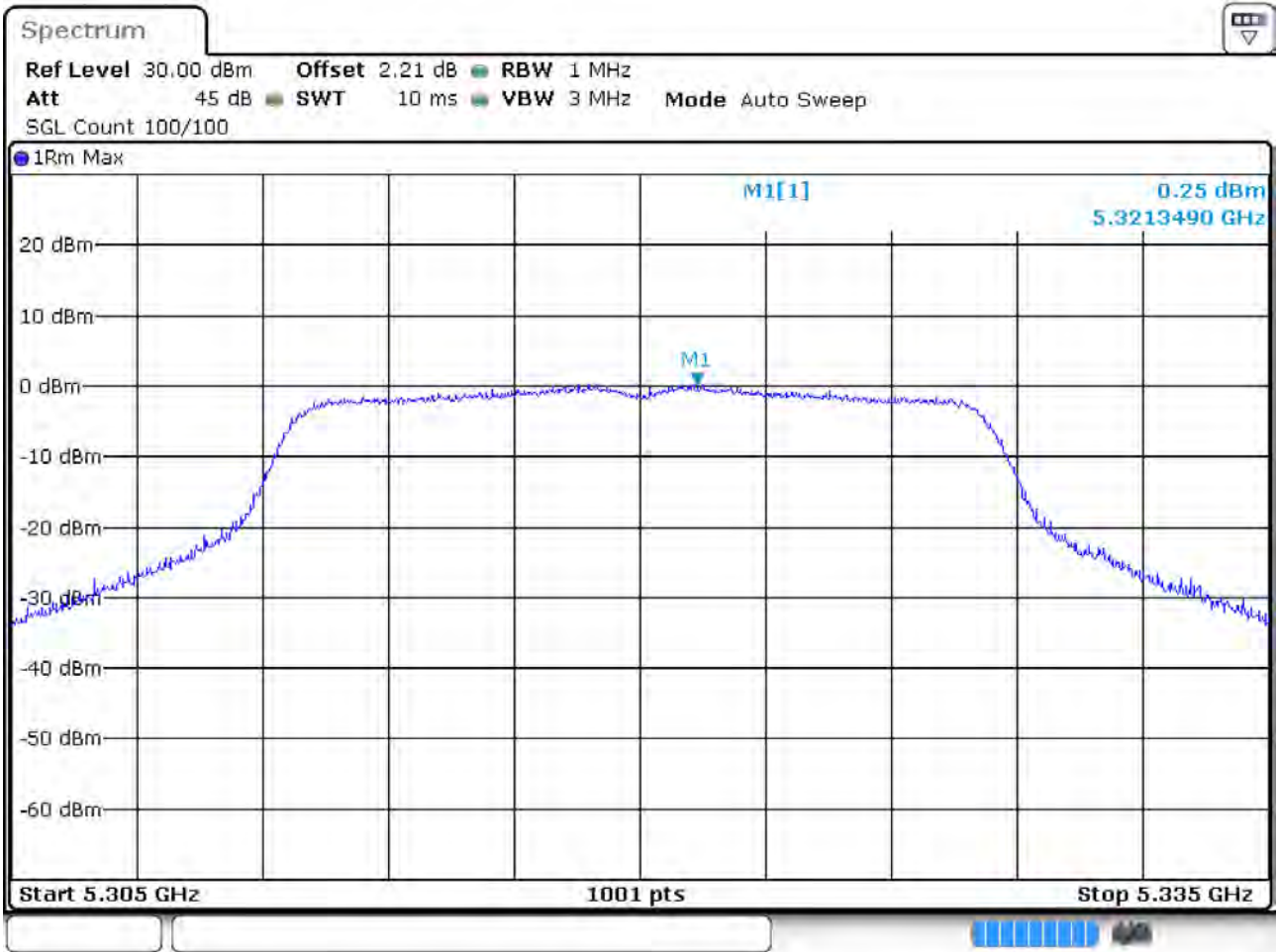


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4.8.2.7 11A20_64 ANT 1



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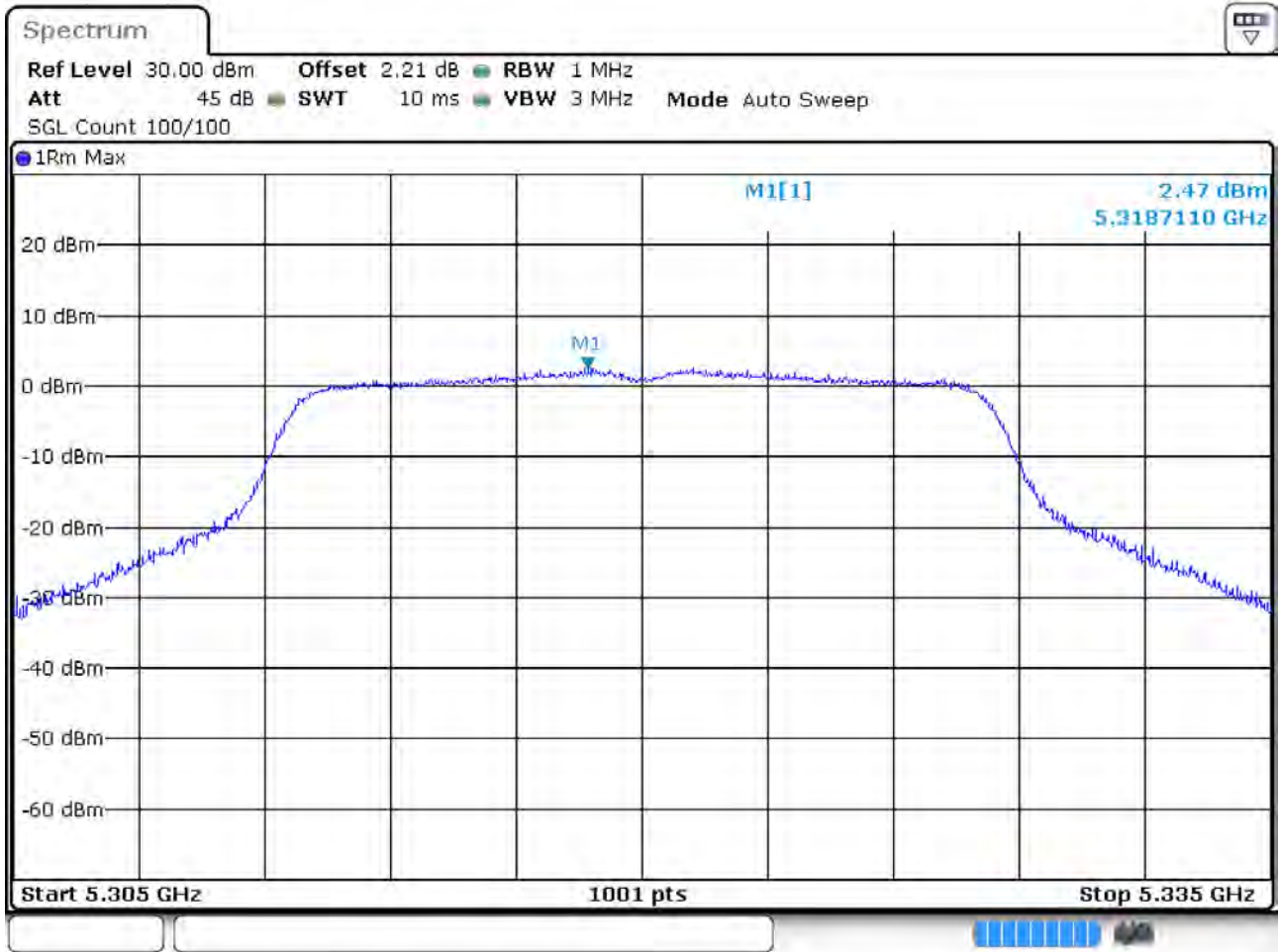


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4.8.2.8 11A20_64 ANT 2

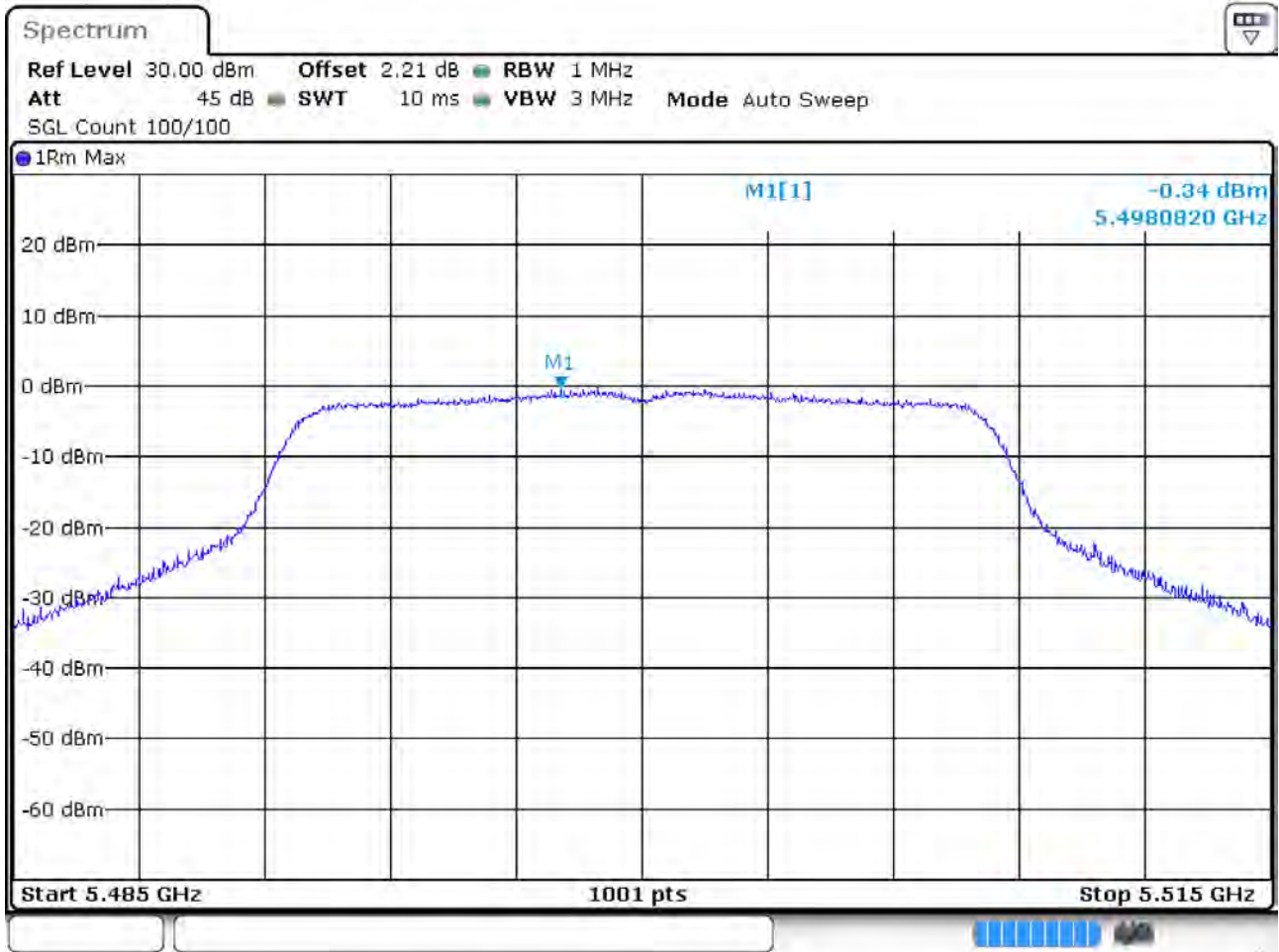


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4.8.2.9 11A20_100 ANT 1



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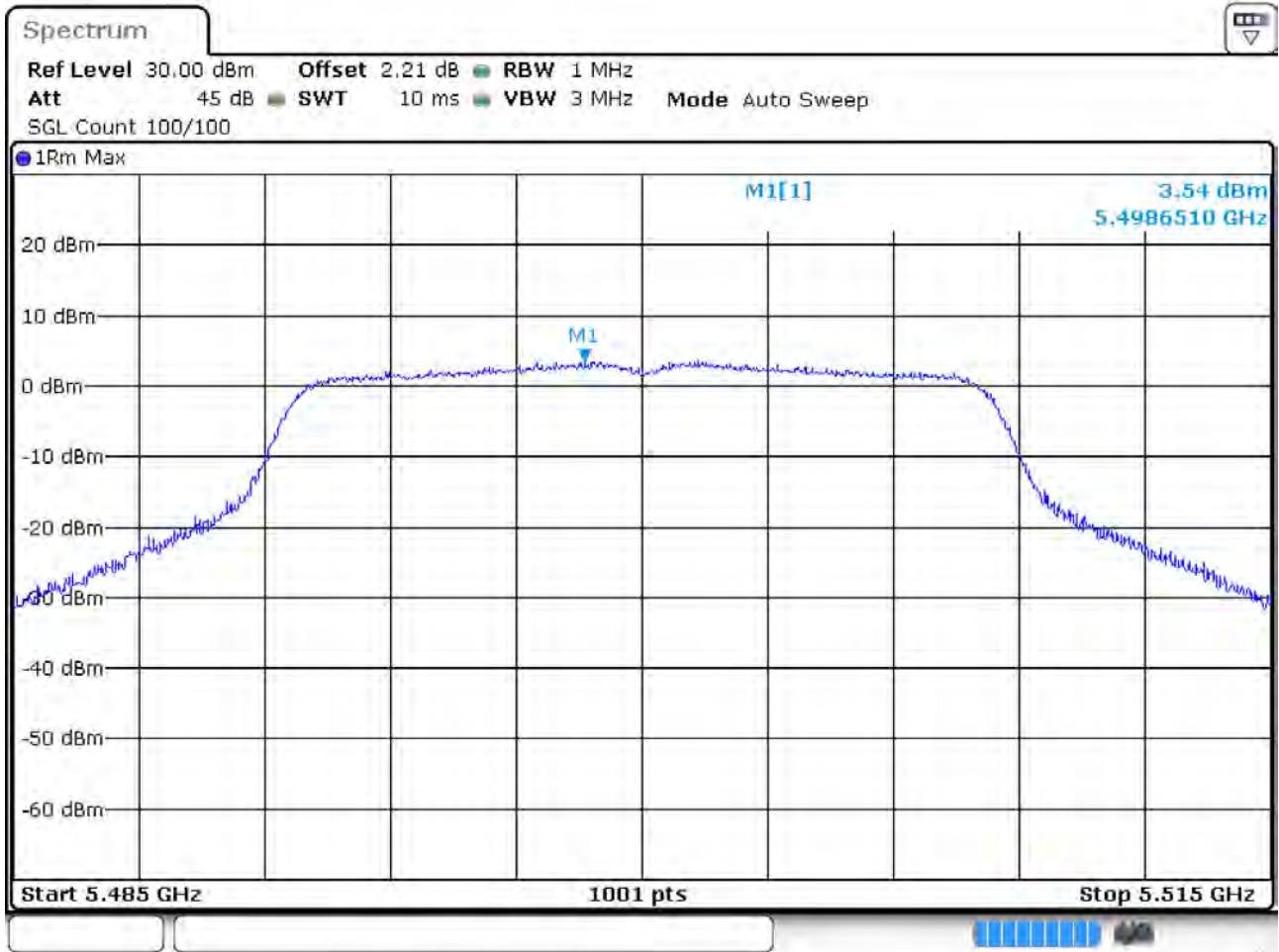


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4.8.2.10 11A20_100 ANT 2

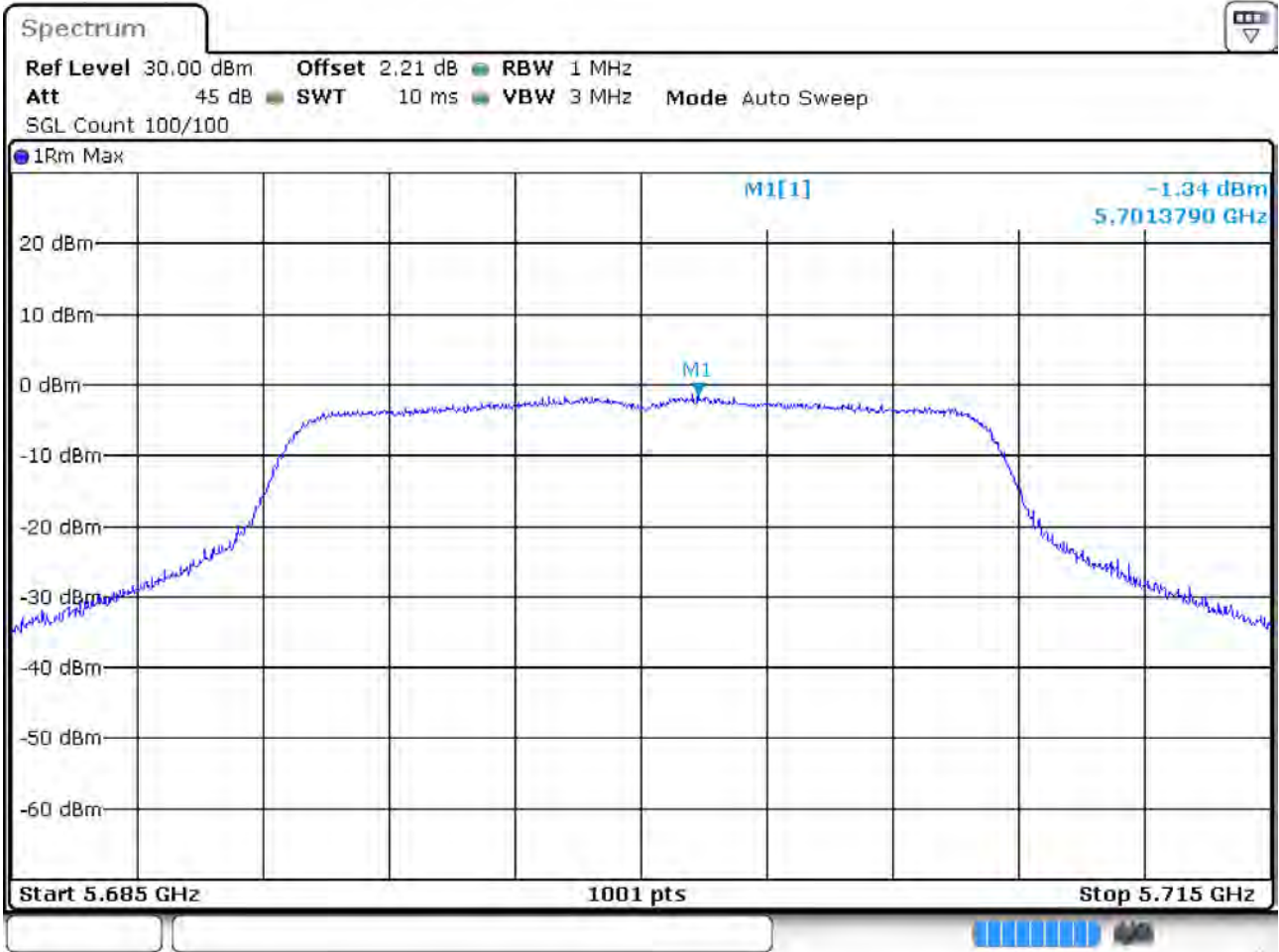


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4.8.2.11 11A20_140 ANT 1



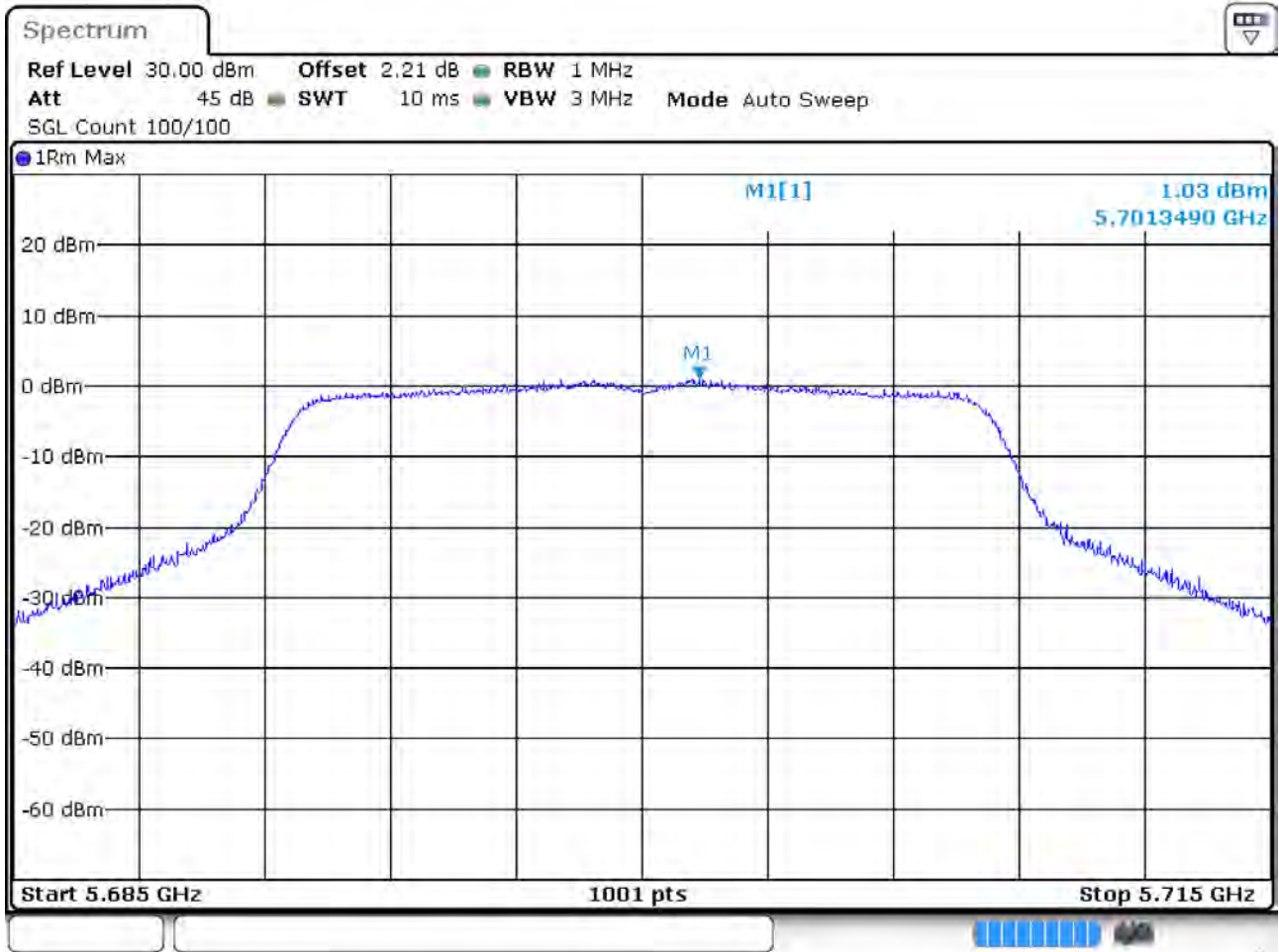
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4.8.2.12 11A20_140 ANT 2



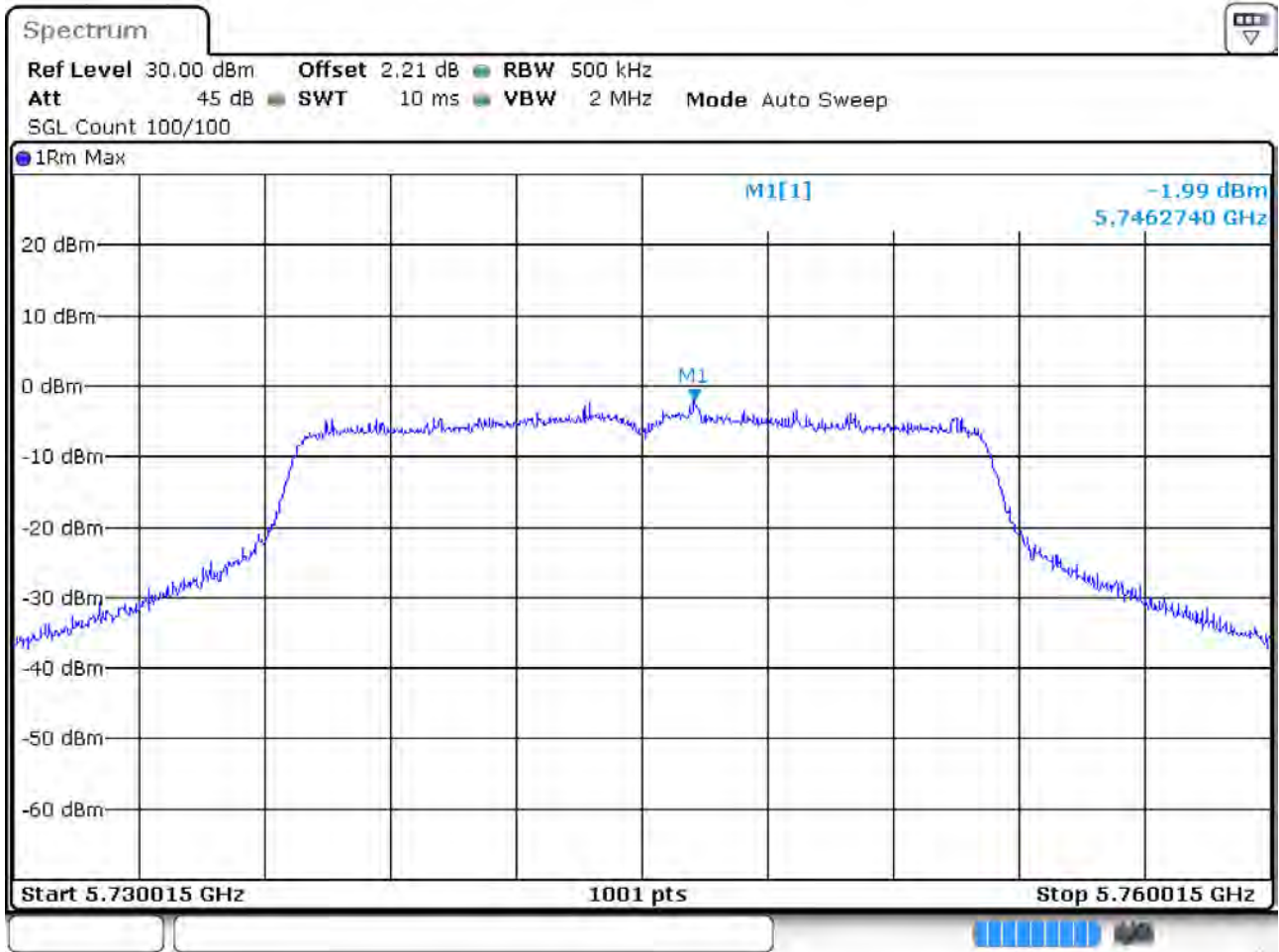
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4.8.2.13 11A20_149 ANT 1

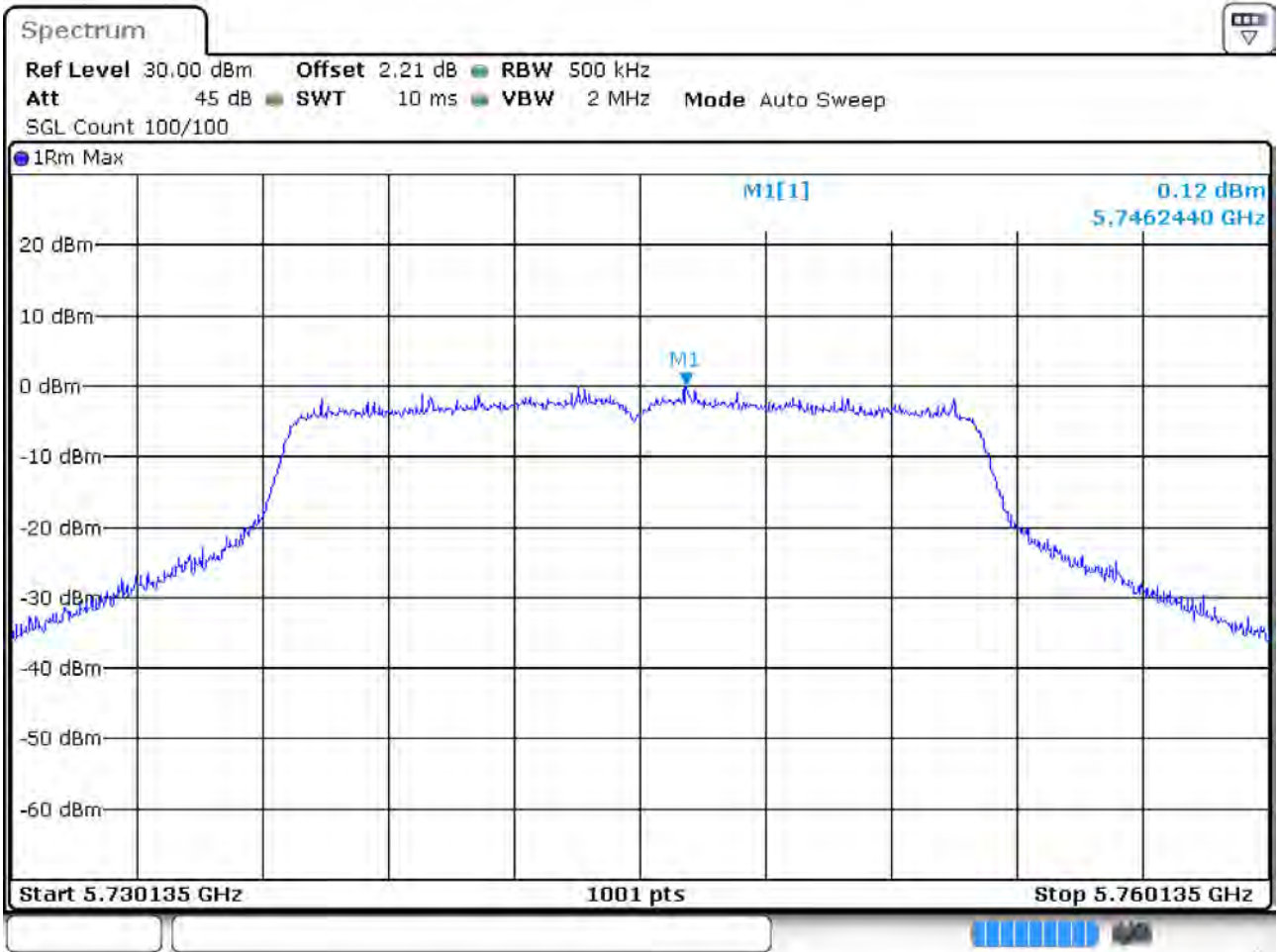


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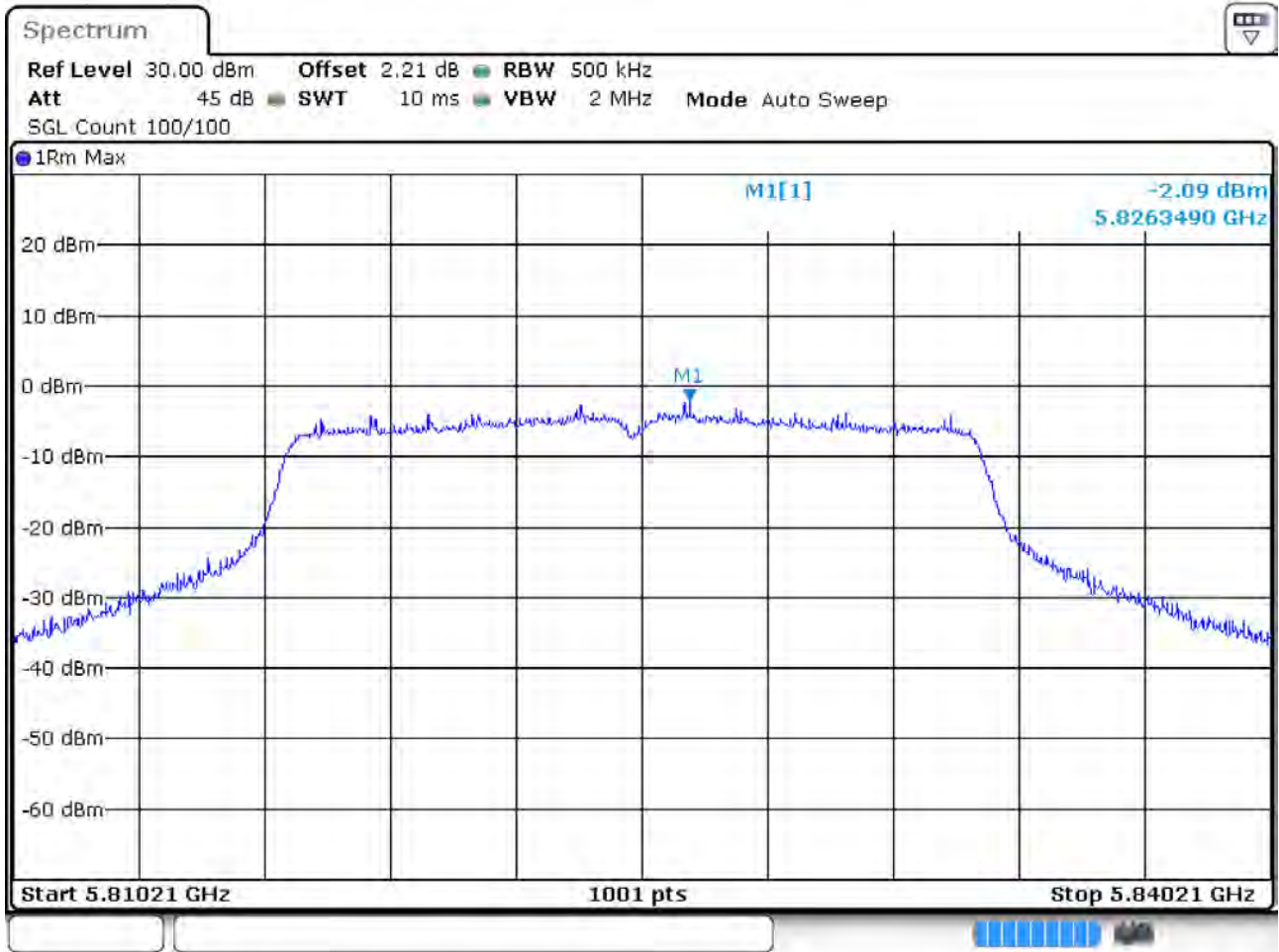
4.8.2.14 11A20_149 ANT 2



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4.8.2.15 11A20_165 ANT 1



Date: 29.JUL.2019 21:49:27

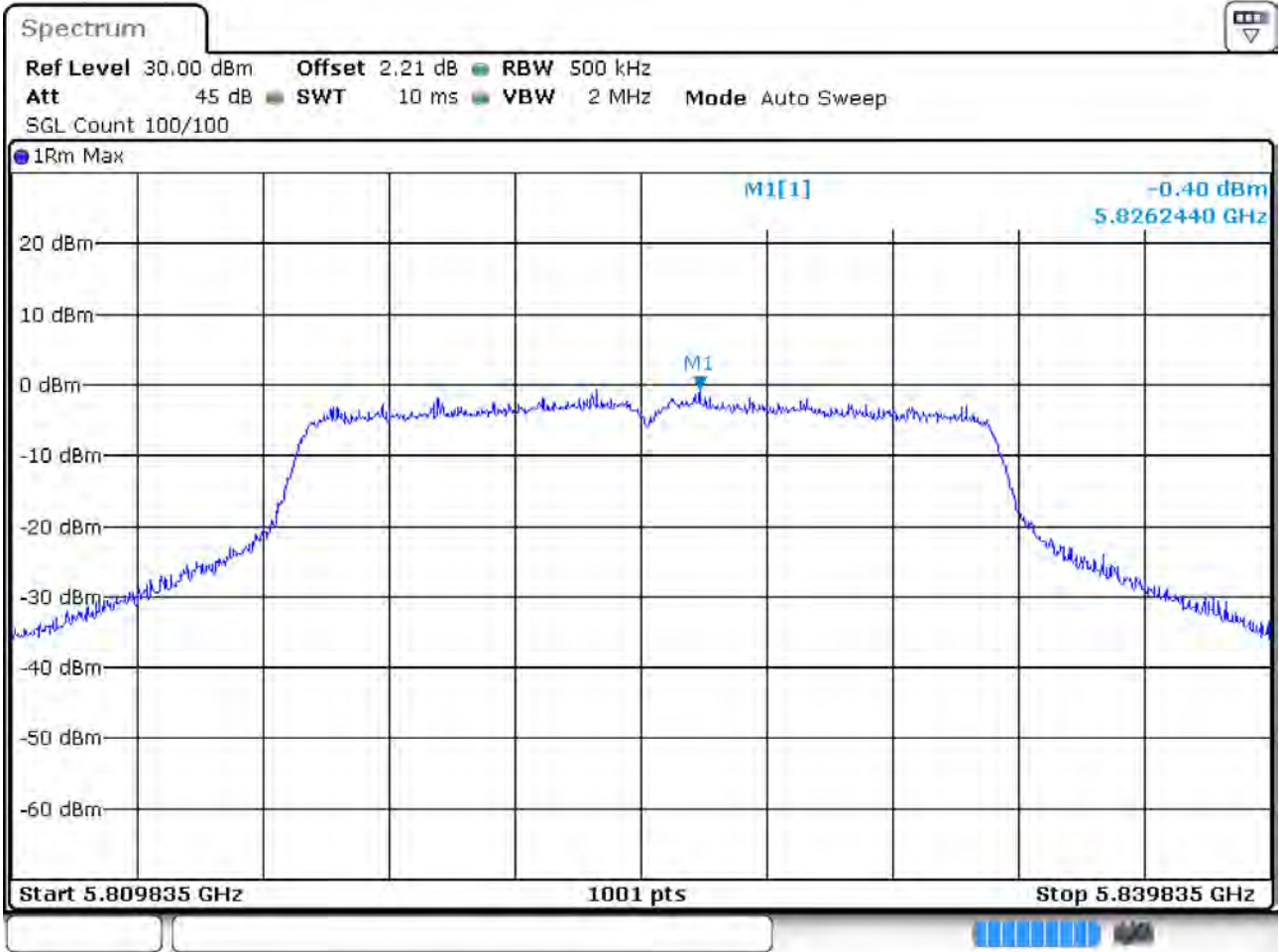


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4.8.2.16 11A20_165 ANT 2

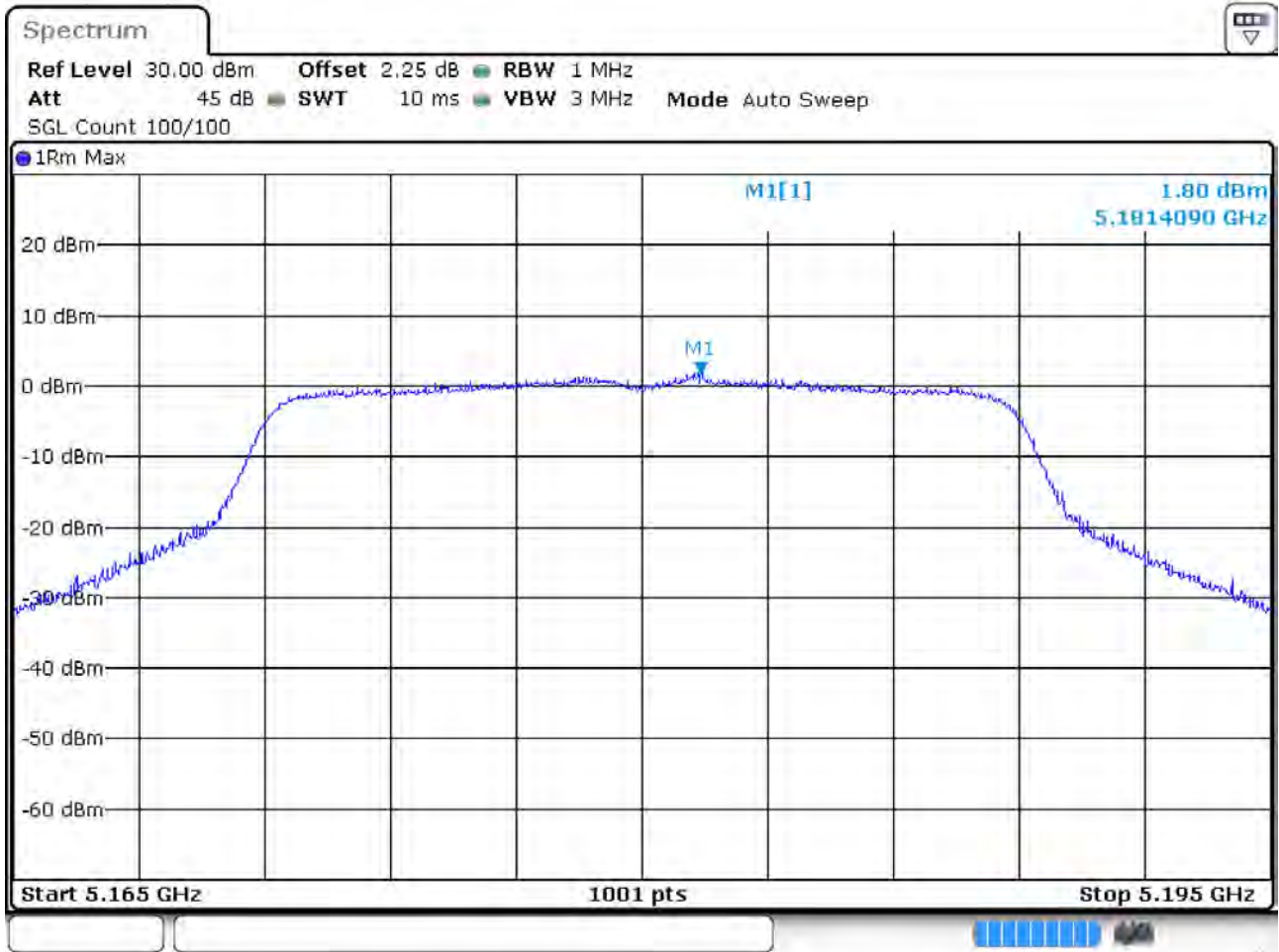


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4.8.2.17 11N20_36 ANT 1



Date: 30 JUL 2019 00:34:30

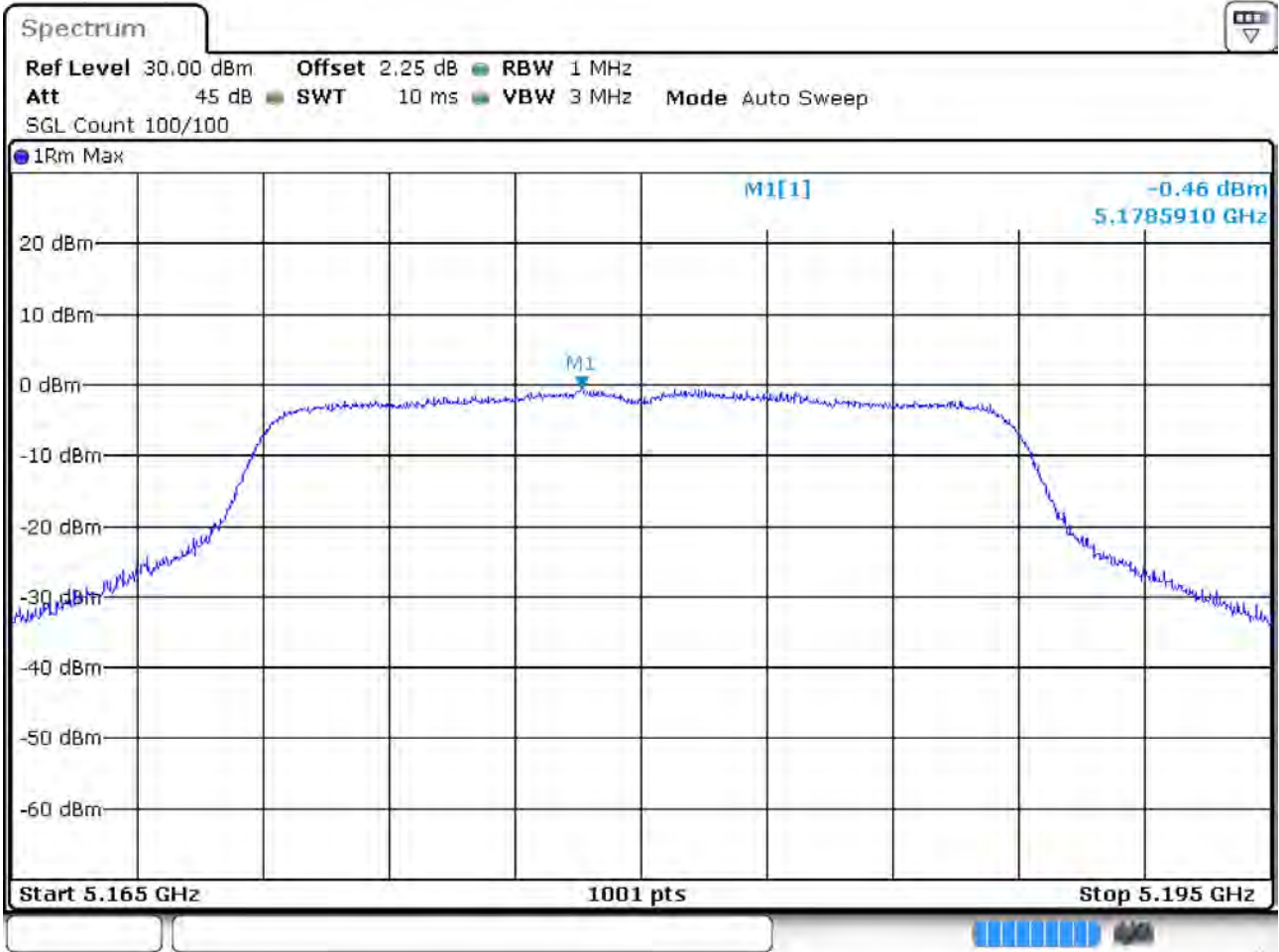


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4.8.2.18 11N20_36 ANT 2



Date: 29 JUL 2019 22:31:53

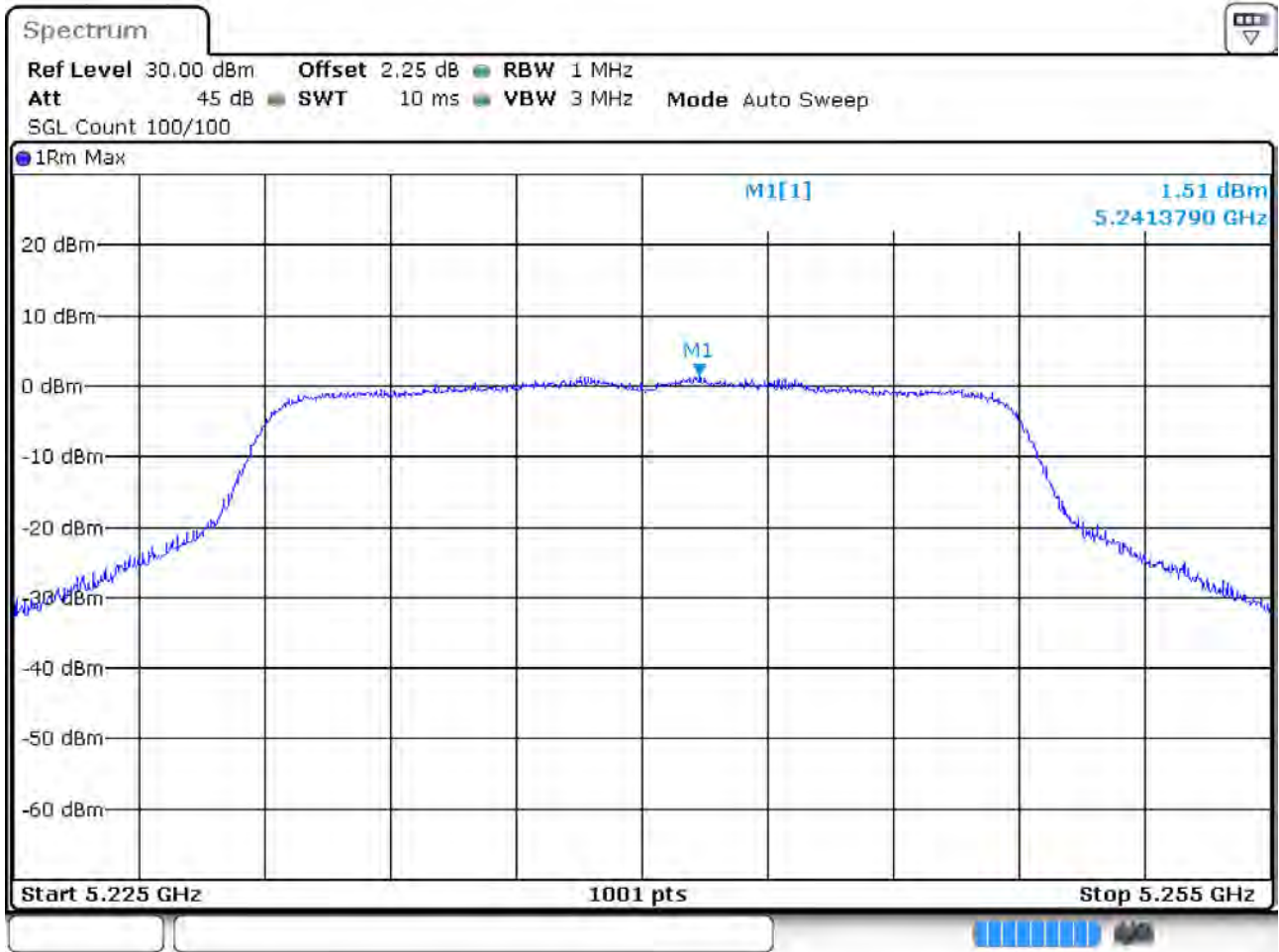


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4.8.2.19 11N20_48 ANT 1



Date: 30 JUL 2019 00:36:31

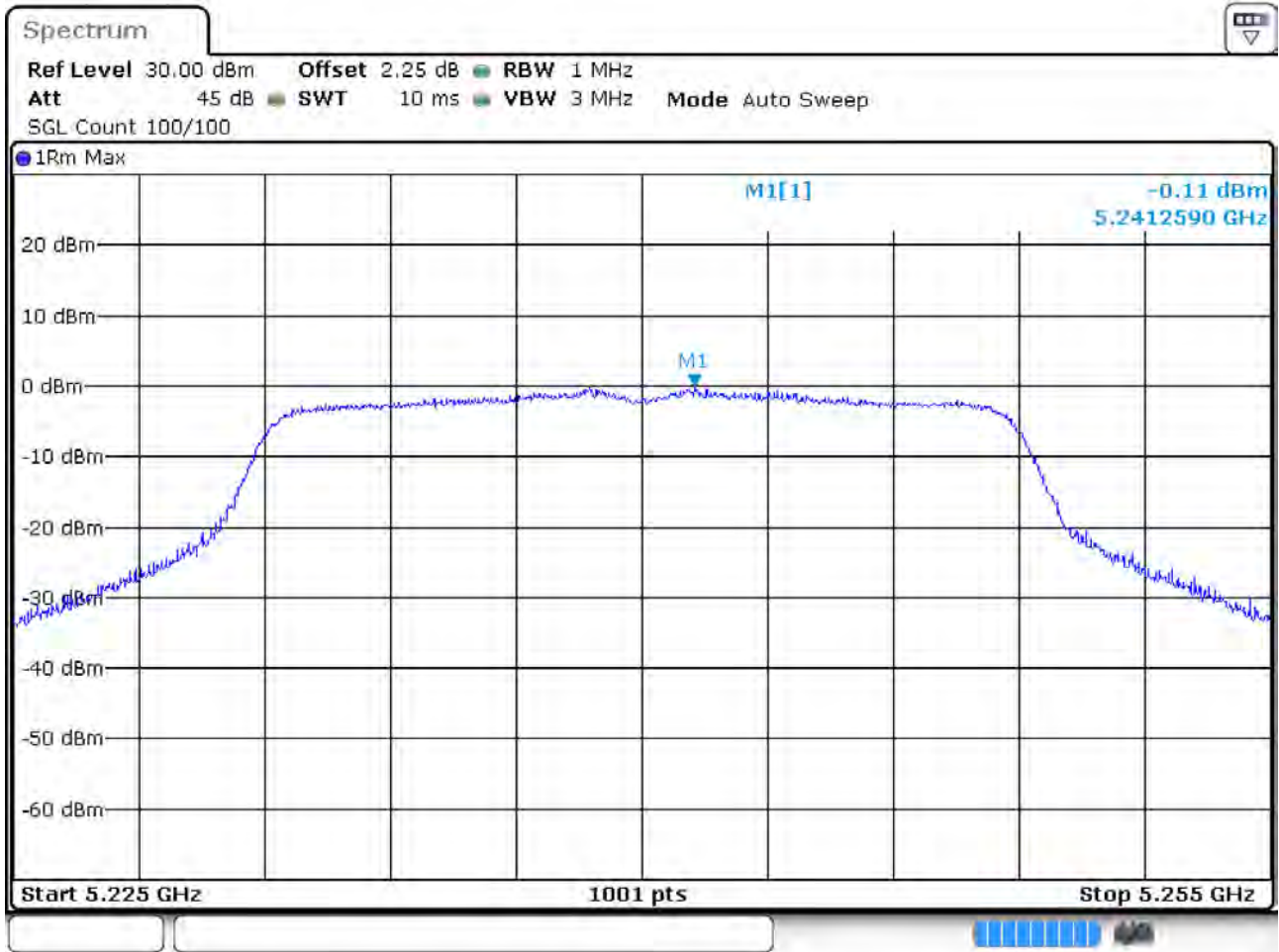


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4.8.2.20 11N20_48 ANT 2



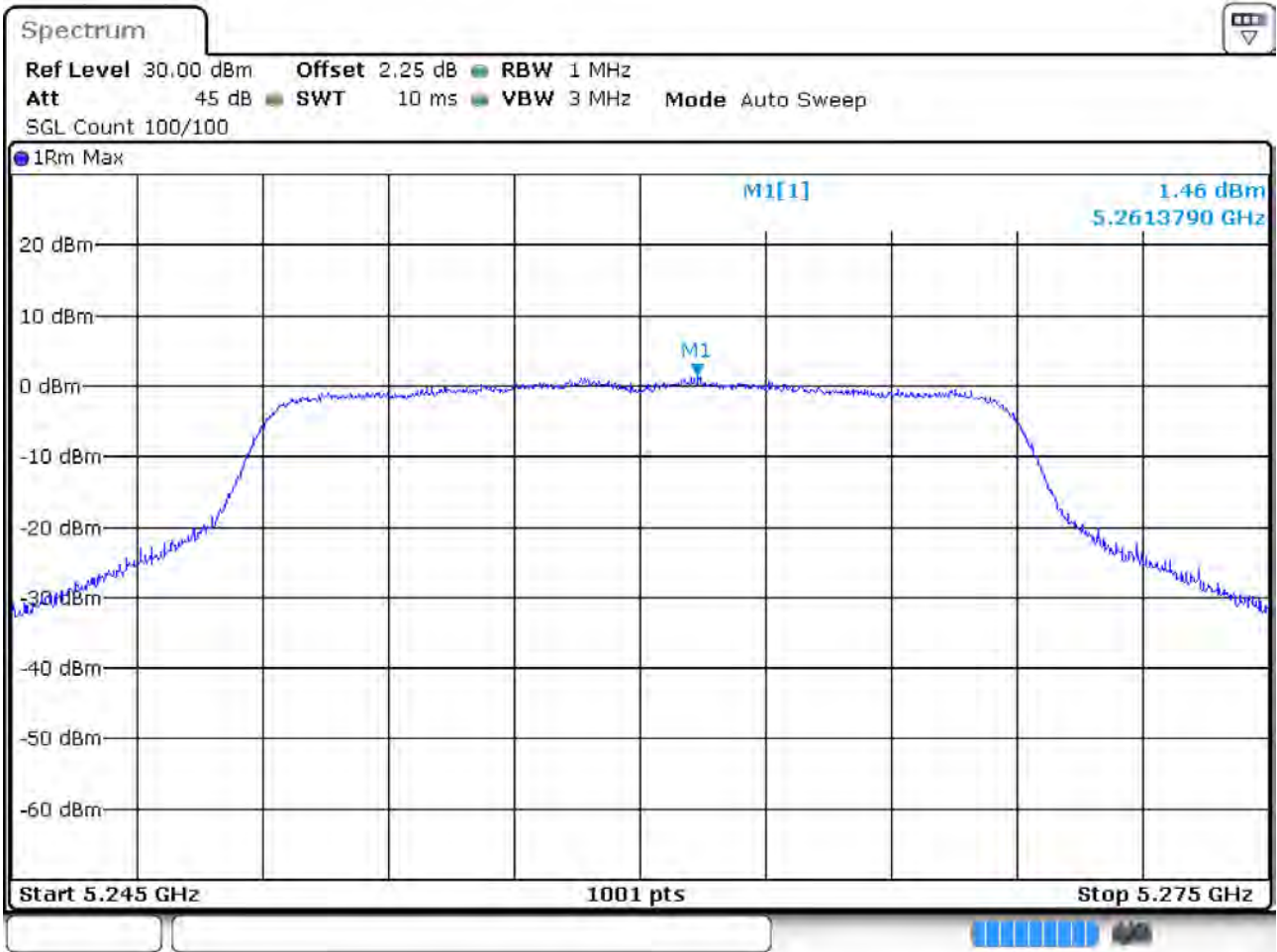
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4.8.2.21 11N20_52 ANT 1



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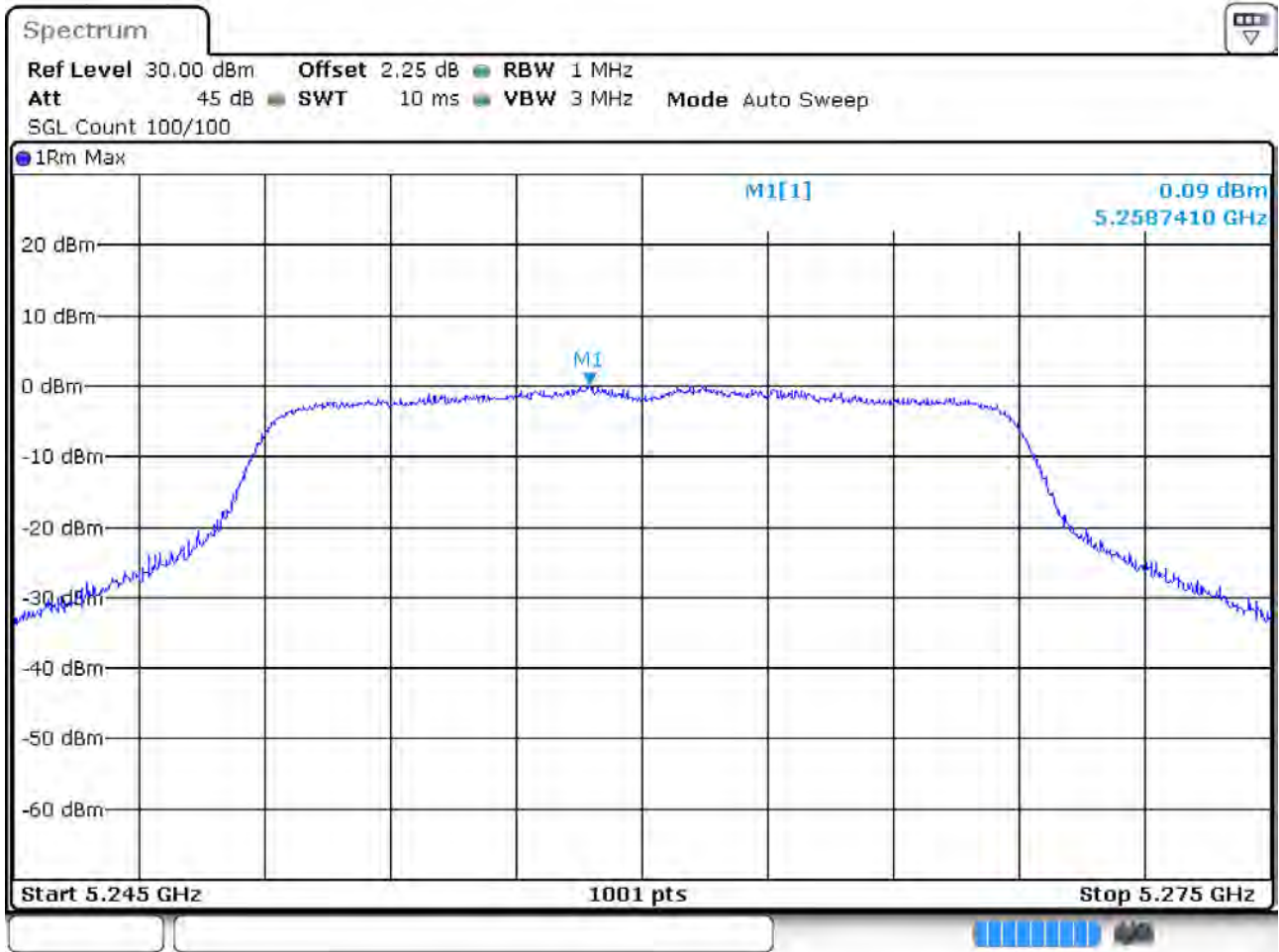


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4.8.2.22 11N20_52 ANT 2



Date: 29 JUL 2019 22:34:19

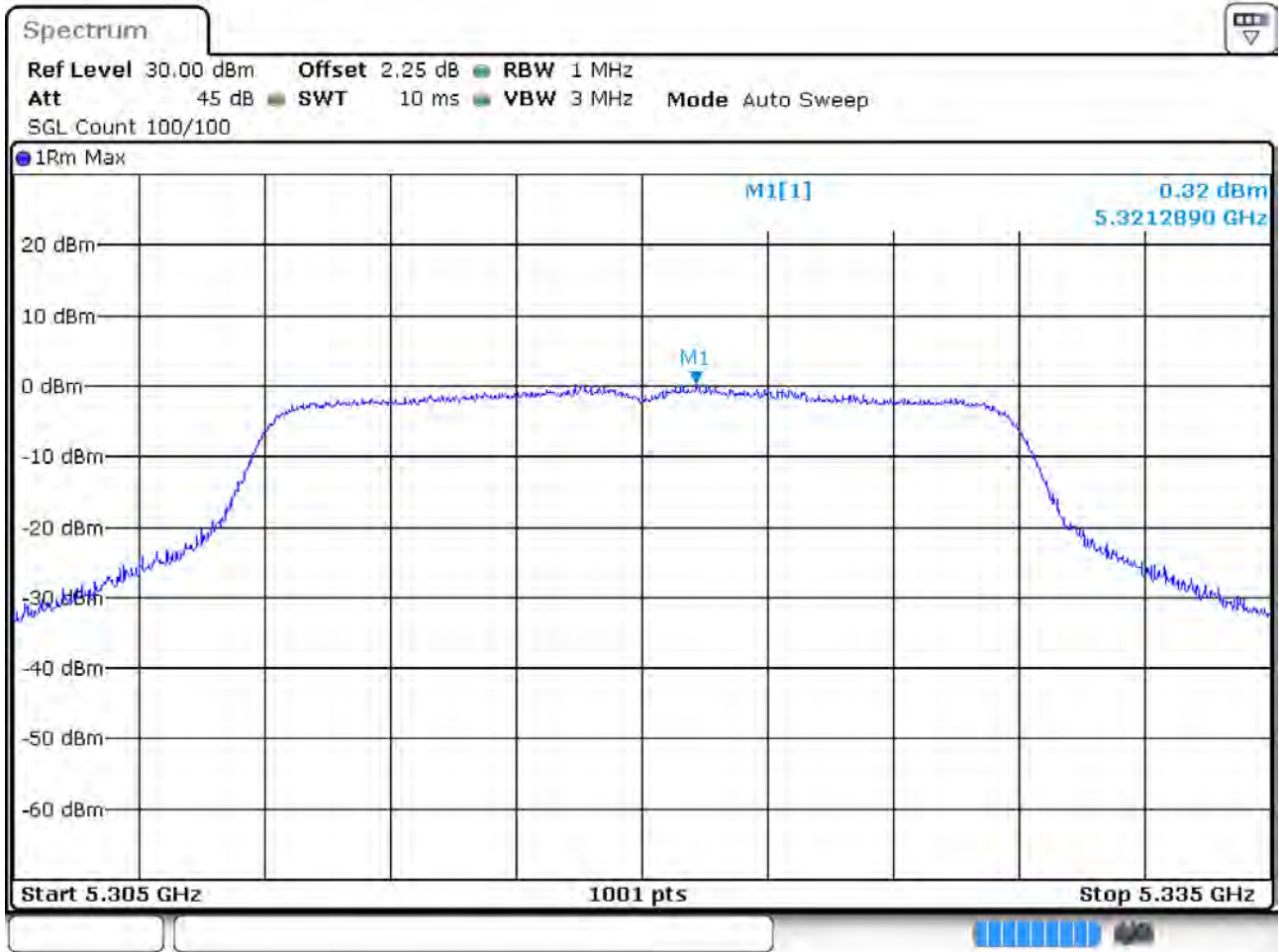


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4.8.2.23 11N20_64 ANT 1



Date: 30 JUL 2019 00:39:07

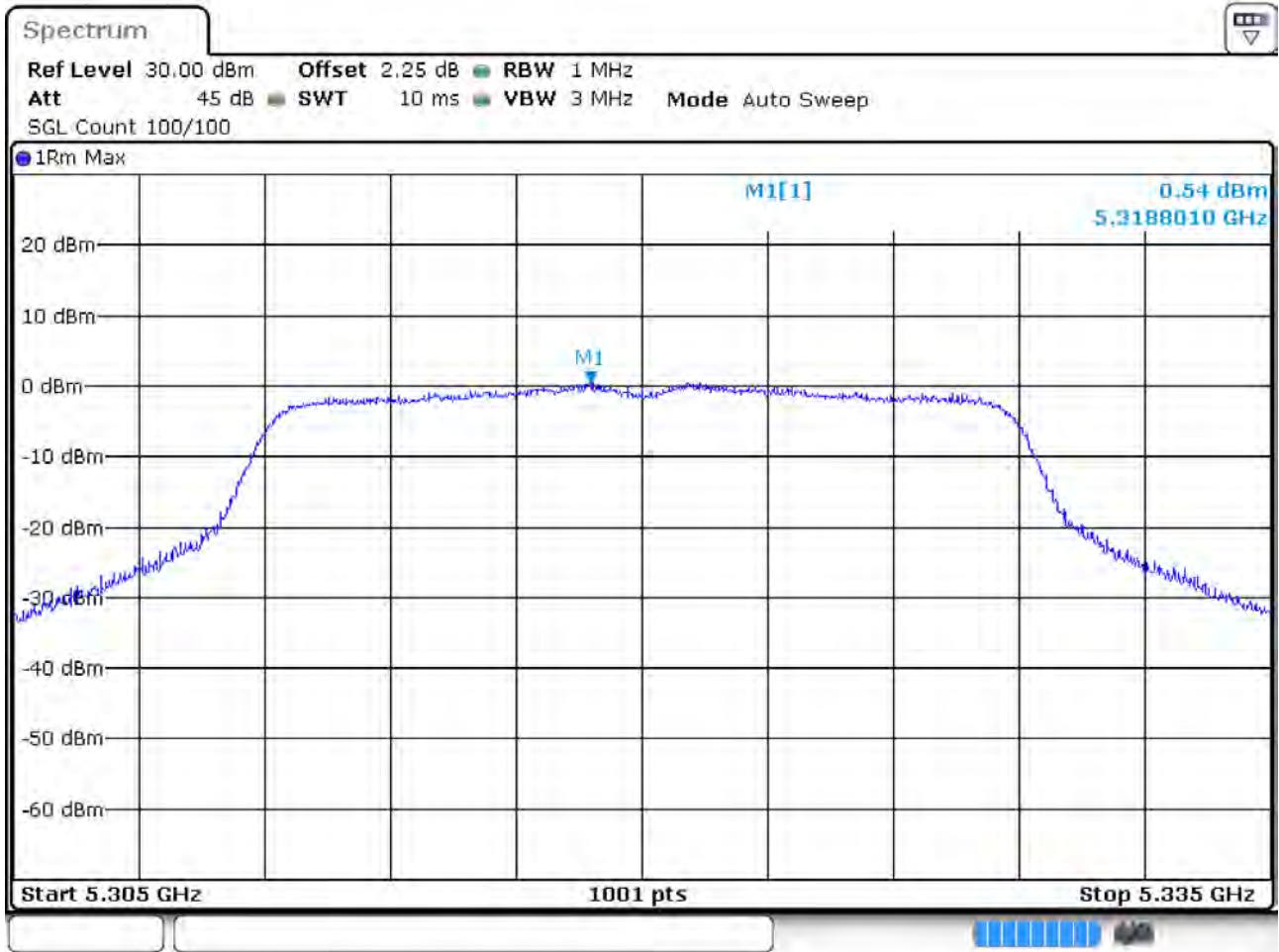


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4.8.2.24 11N20_64 ANT 2



Date: 29 JUL 2019 22:35:15



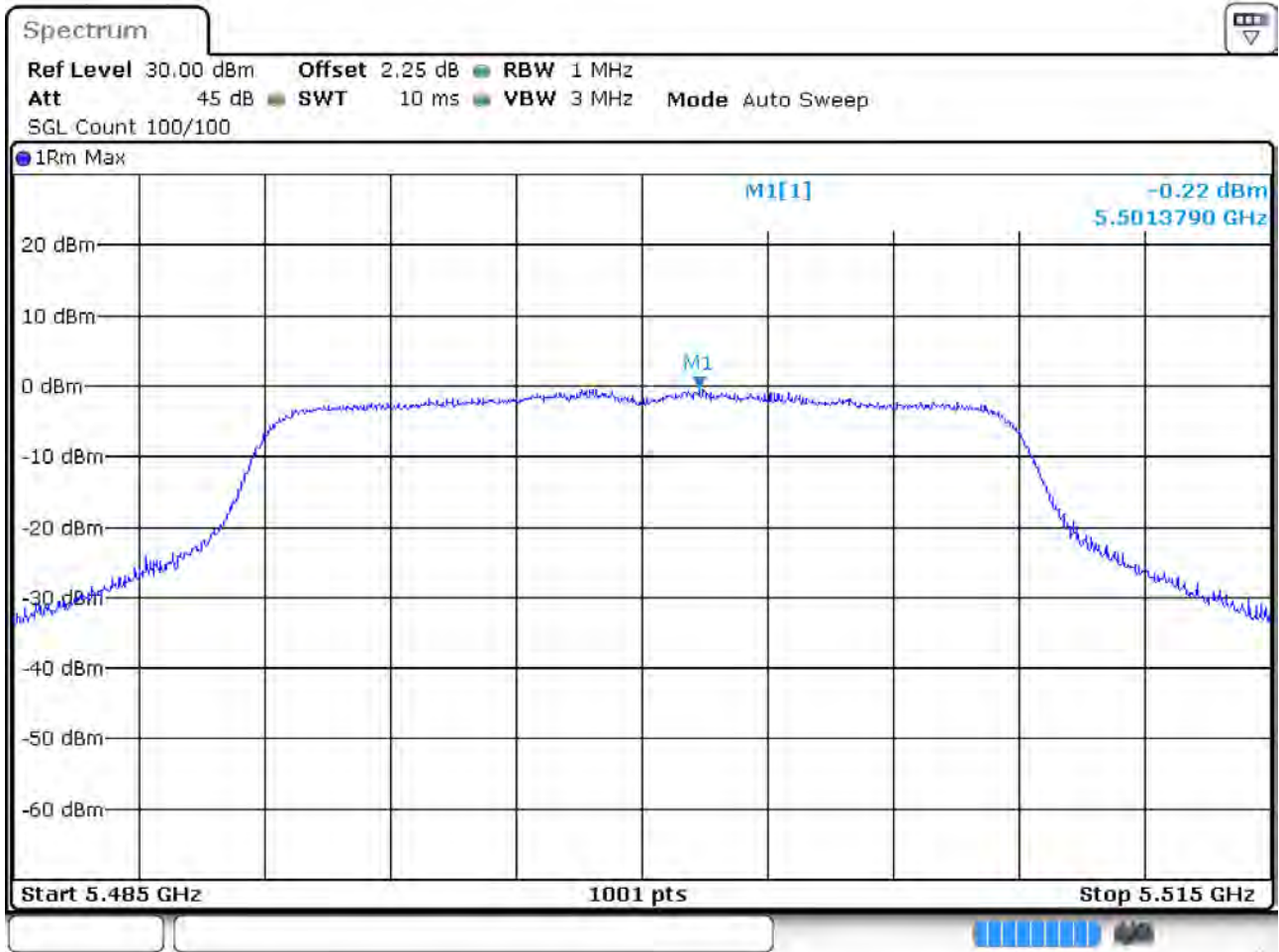
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4.8.2.25 11N20_100 ANT 1



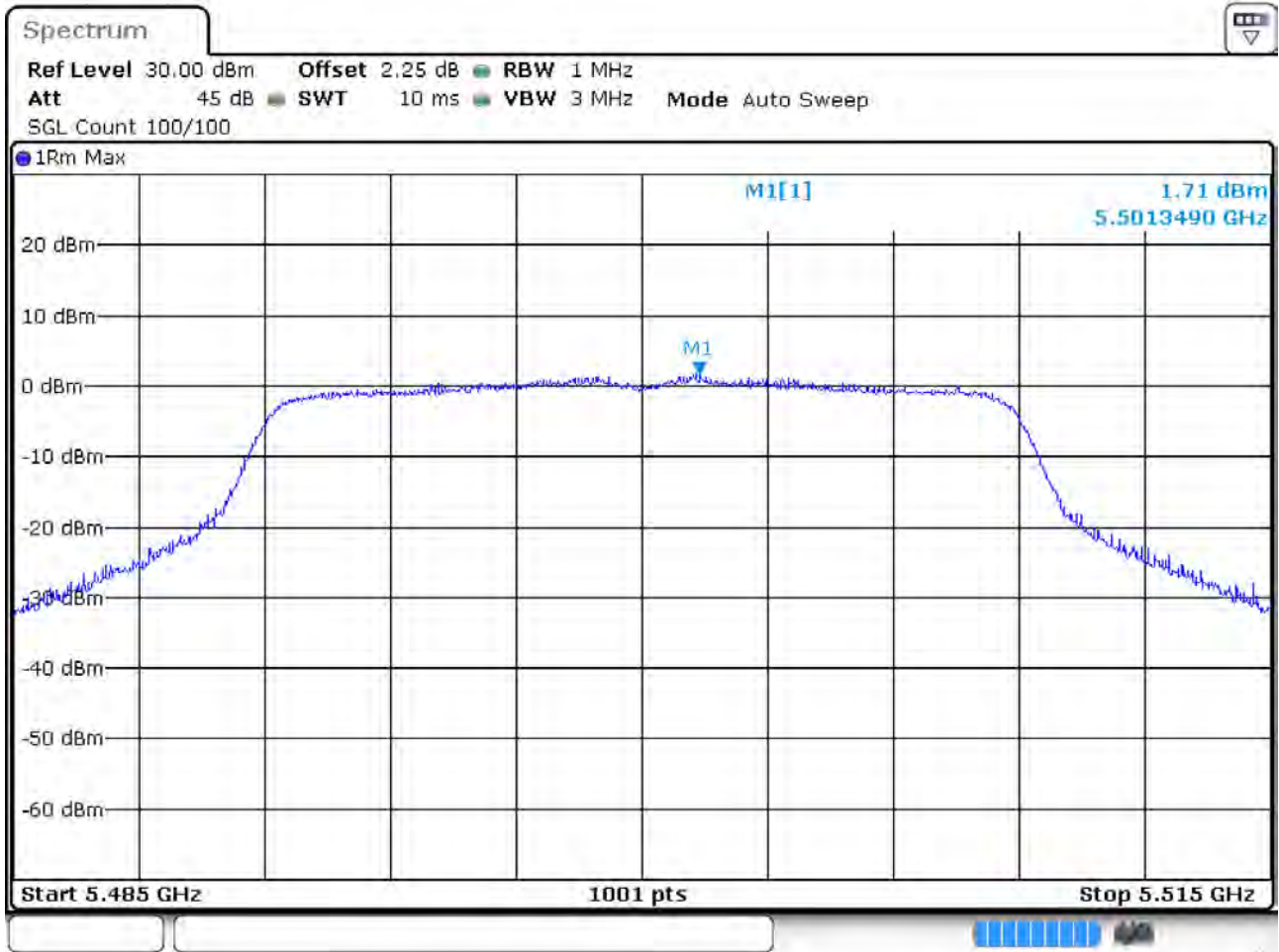
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4.8.2.26 11N20_100 ANT 2



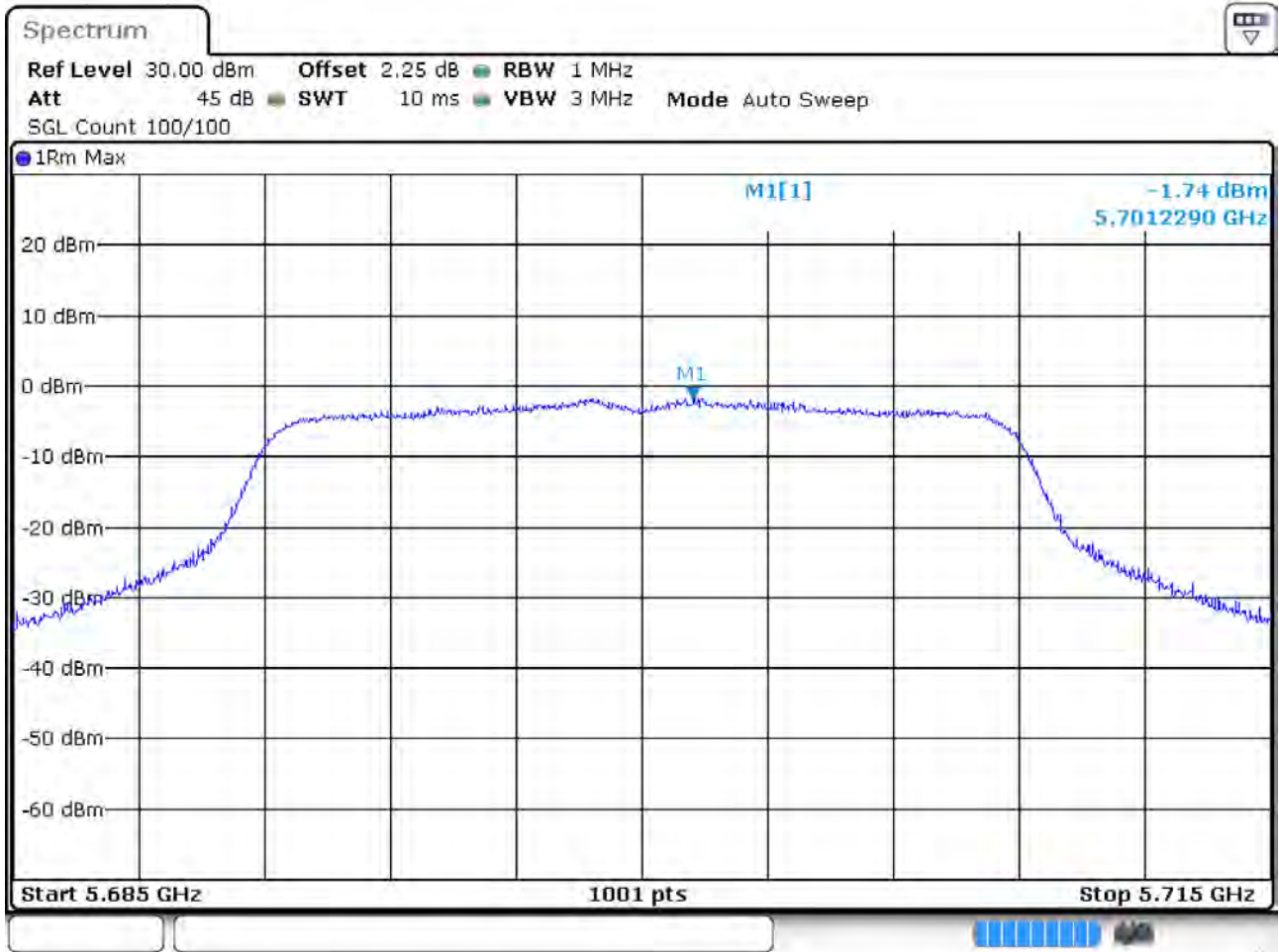
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4.8.2.27 11N20_140 ANT 1

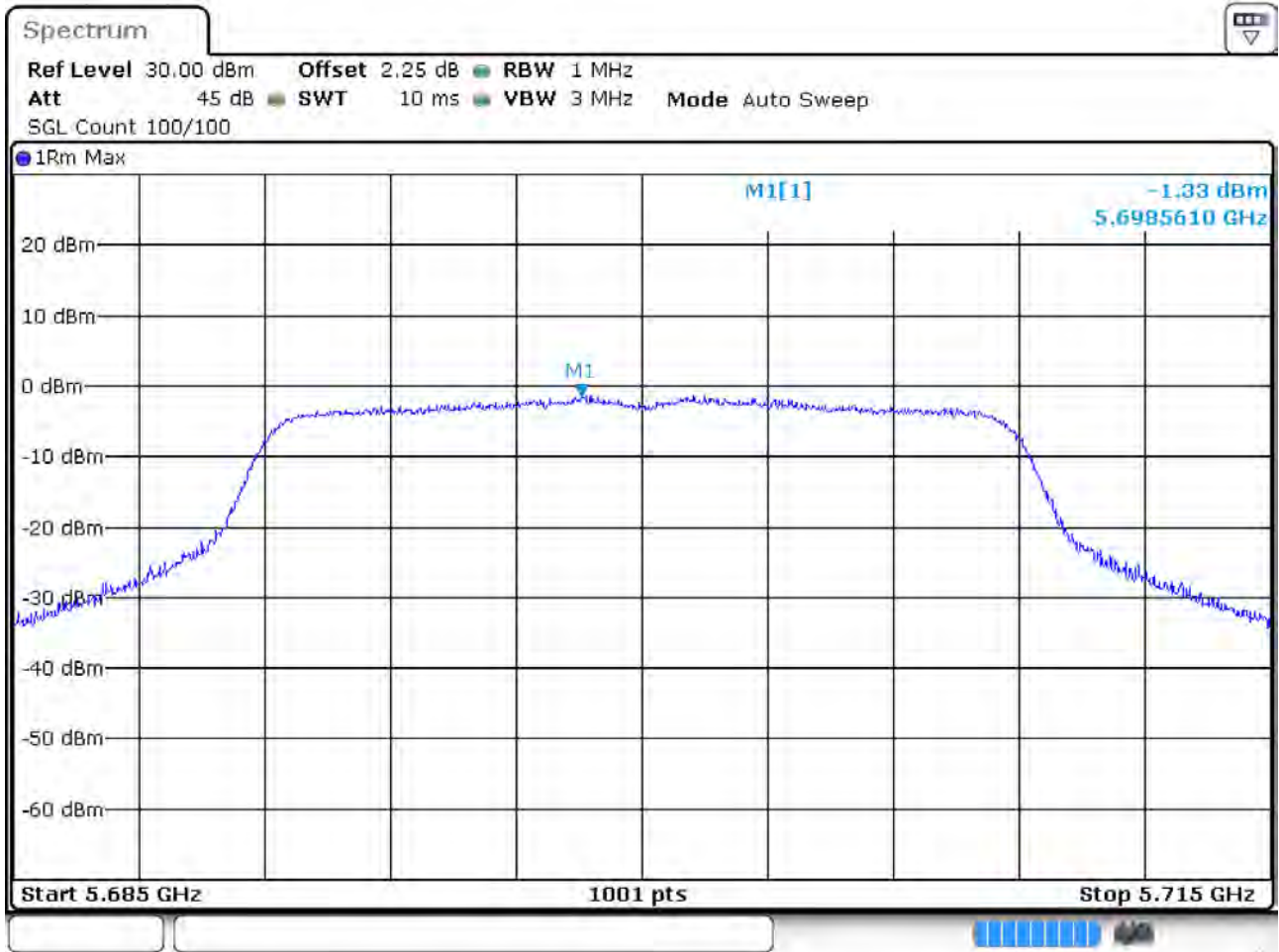


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4.8.2.28 11N20_140 ANT 2



Date: 29 JUL 2019 22:37:54

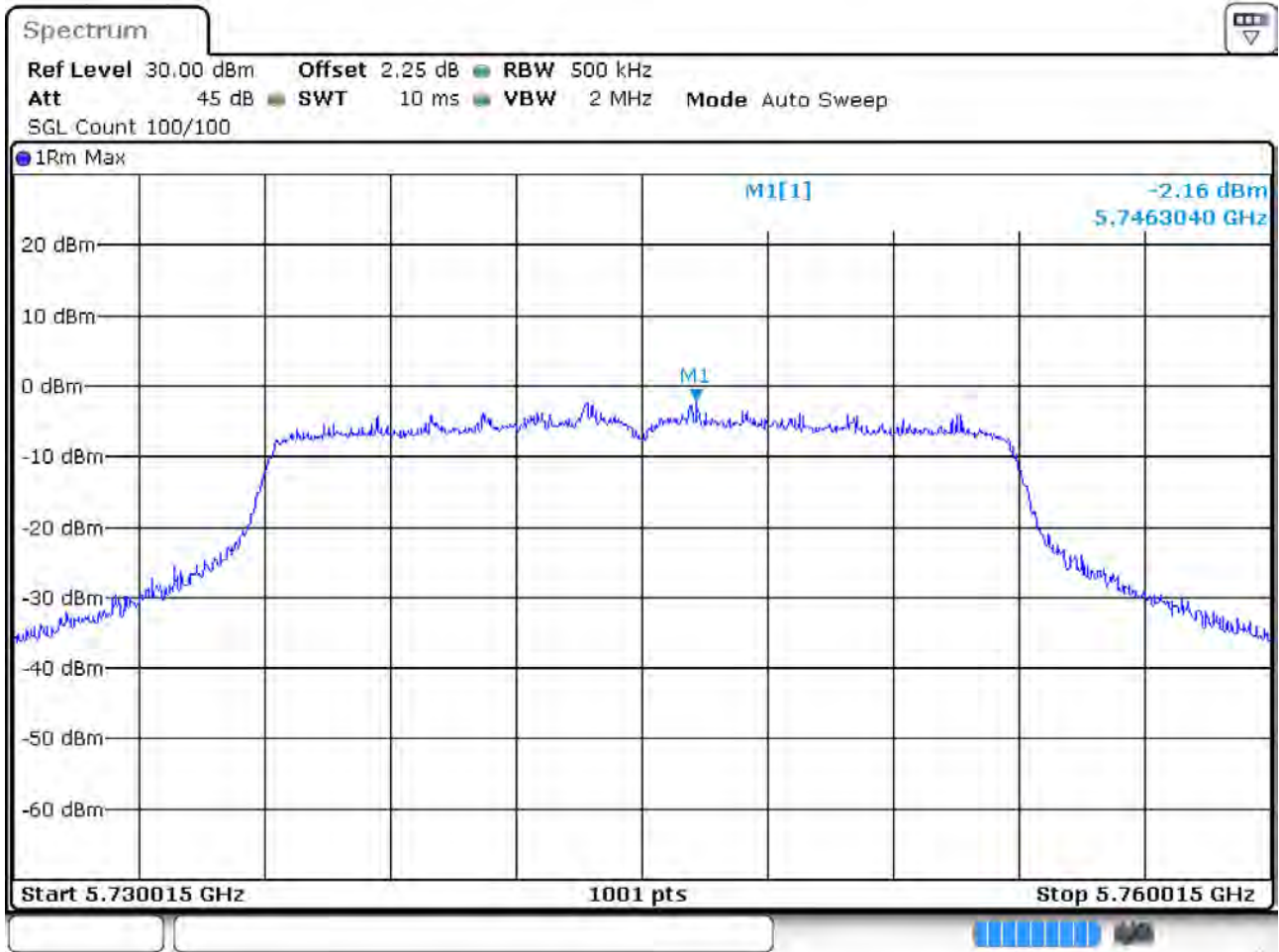


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4.8.2.29 11N20_149 ANT 1

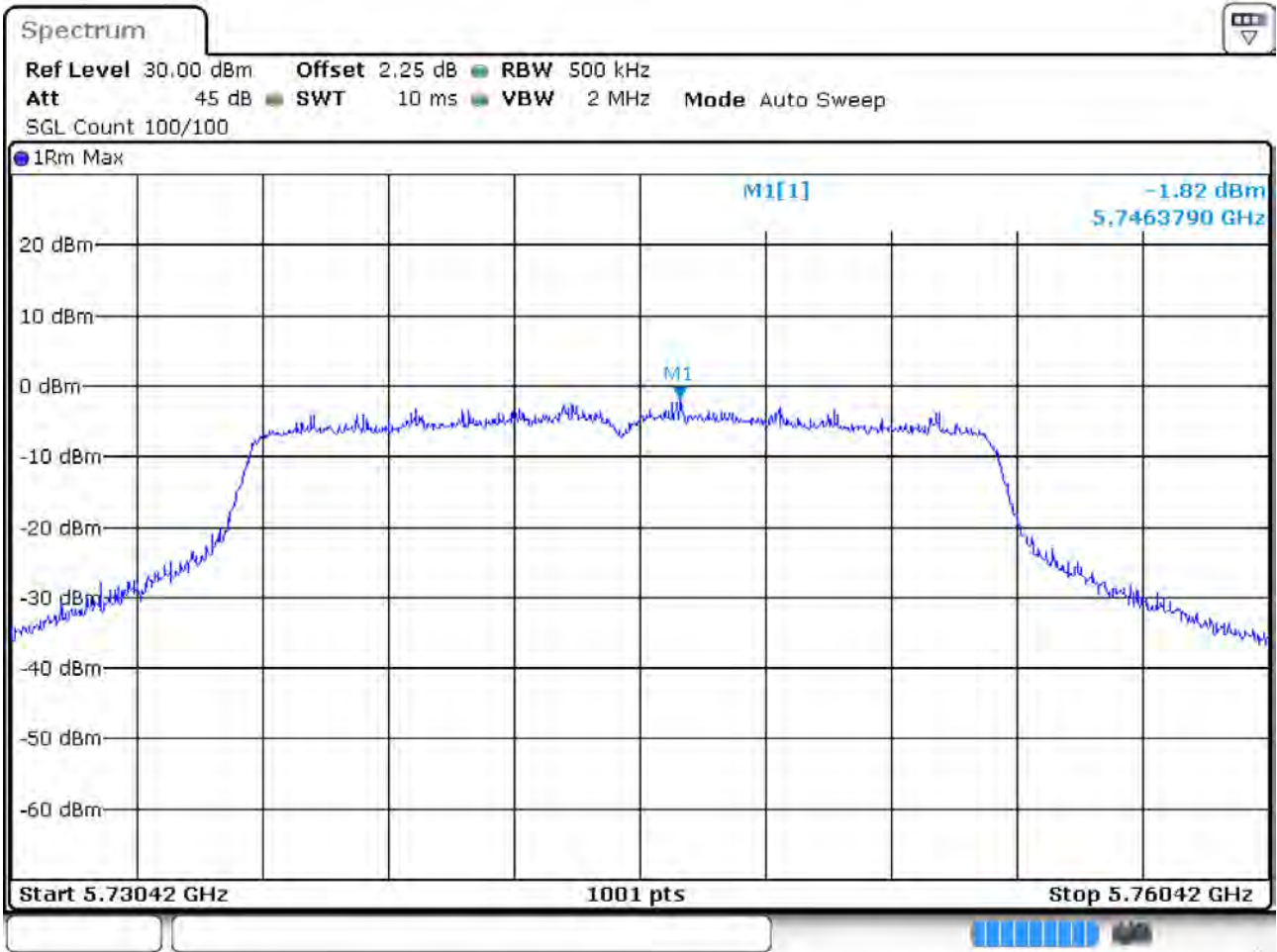


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4.8.2.30 11N20_149 ANT 2



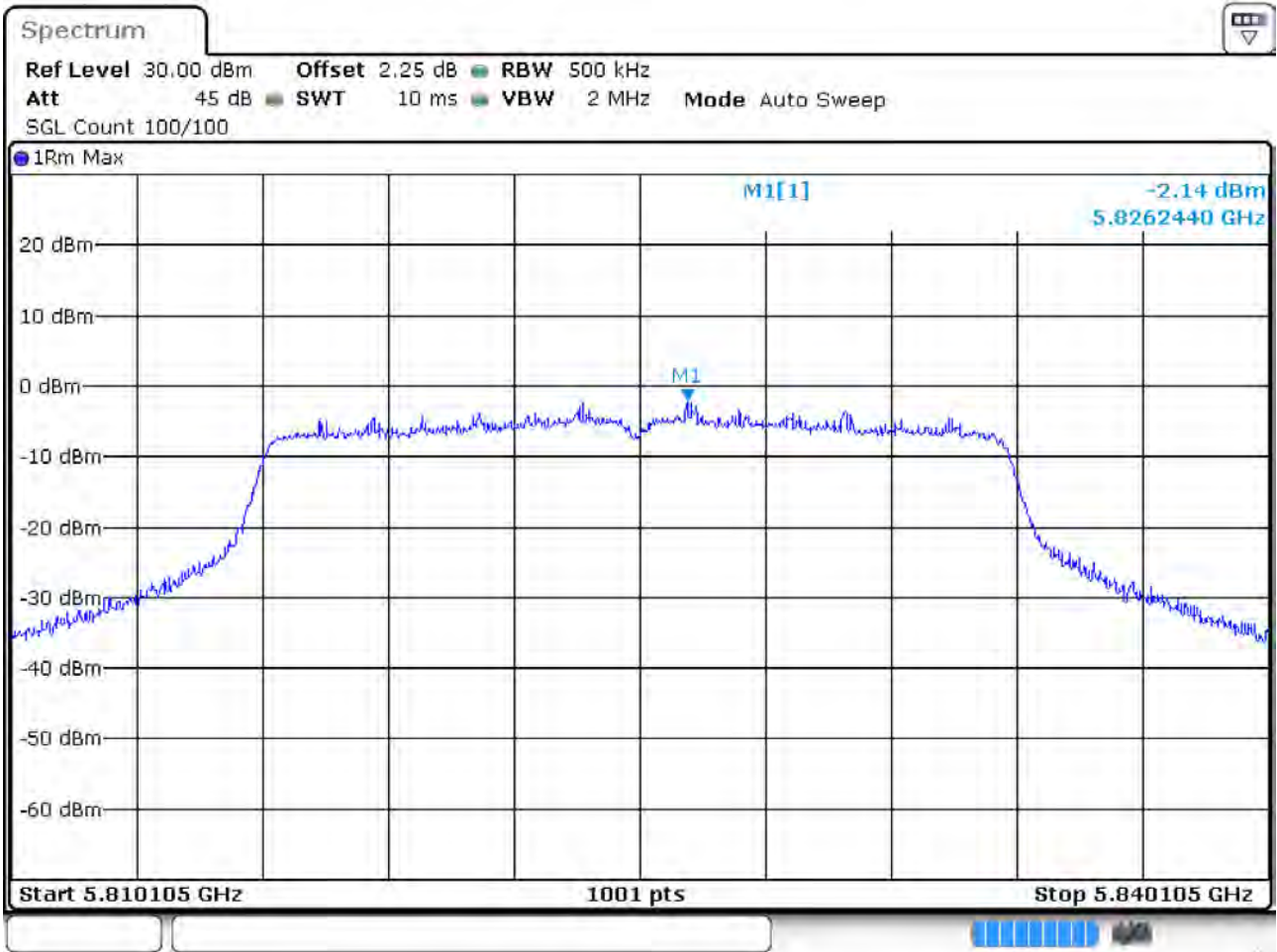
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4.8.2.31 11N20_165 ANT 1

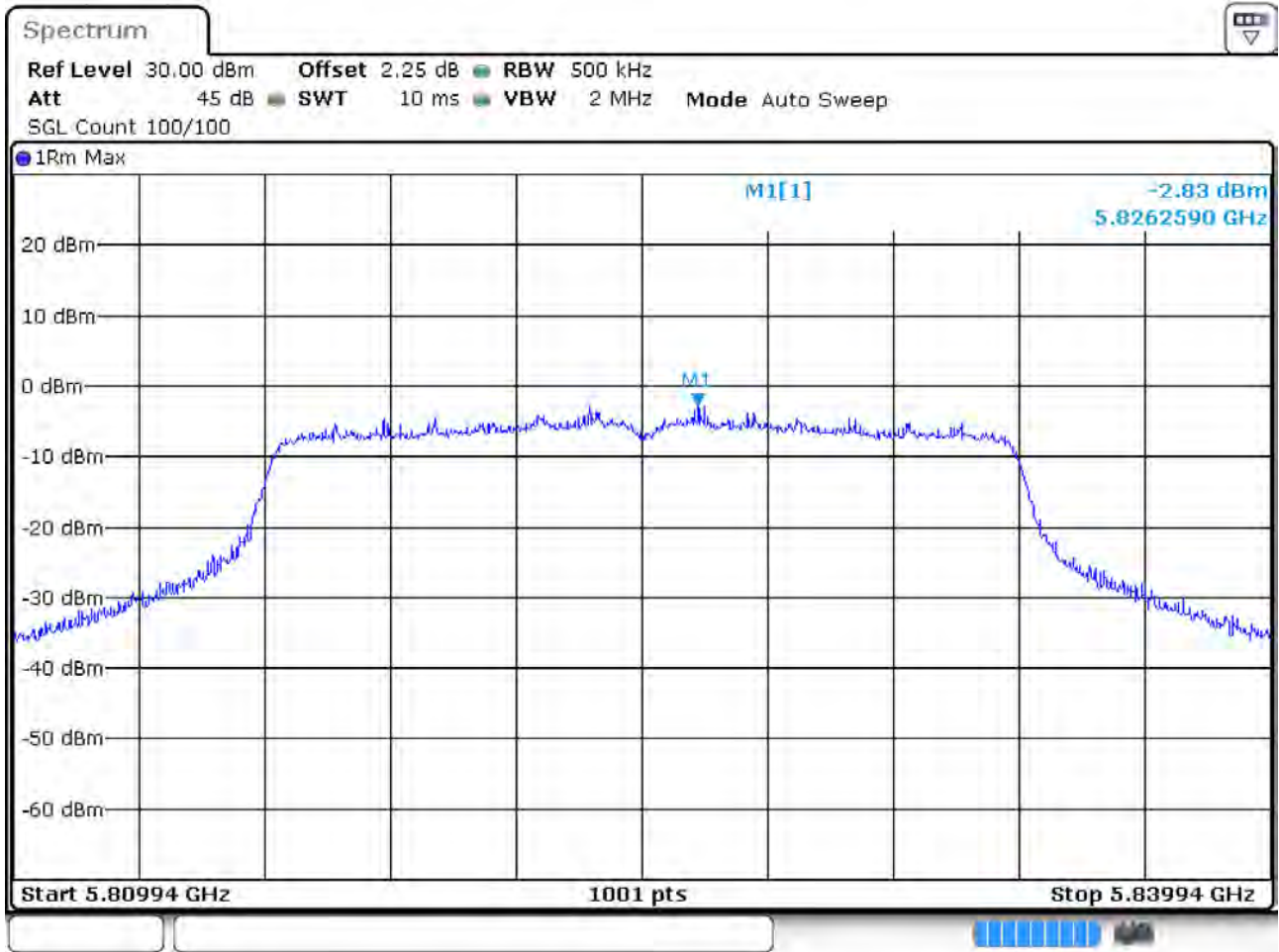


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4.8.2.32 11N20_165 ANT 2



Date: 29 JUL 2019 22:40:38

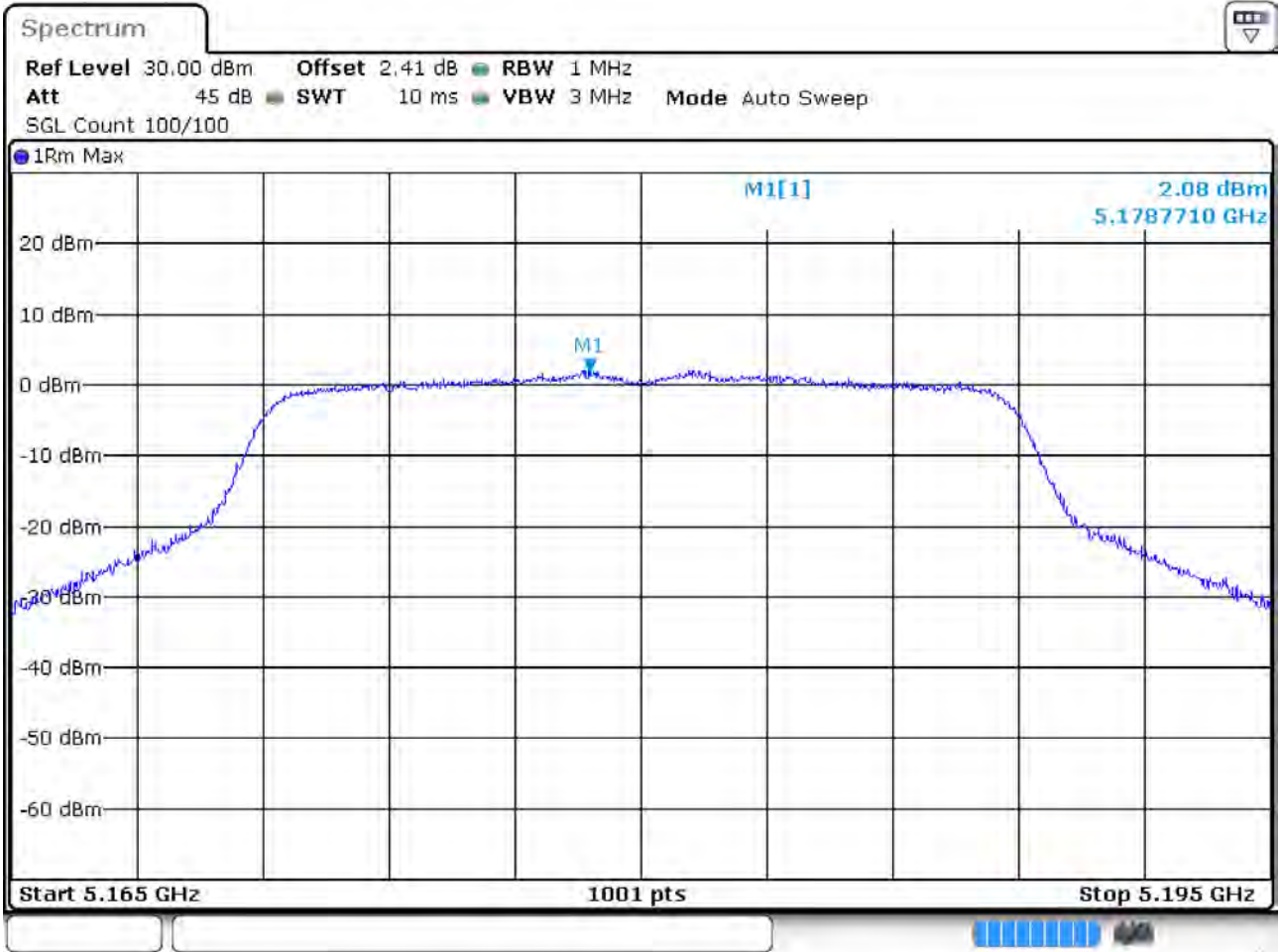


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4.8.2.33 11N20MIMO_36 ANT 1



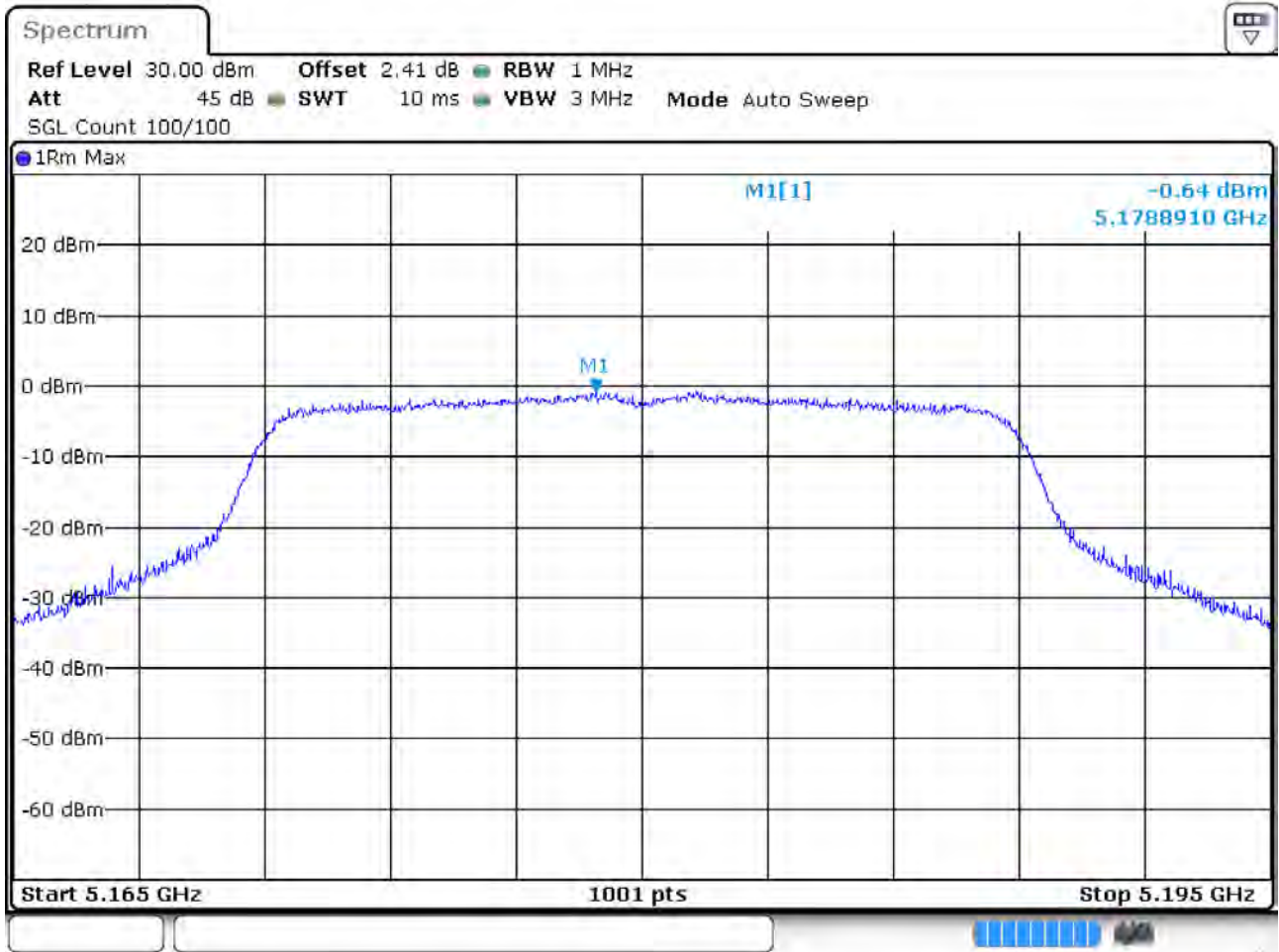
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4.8.2.34 11N20MIMO_36 ANT 2



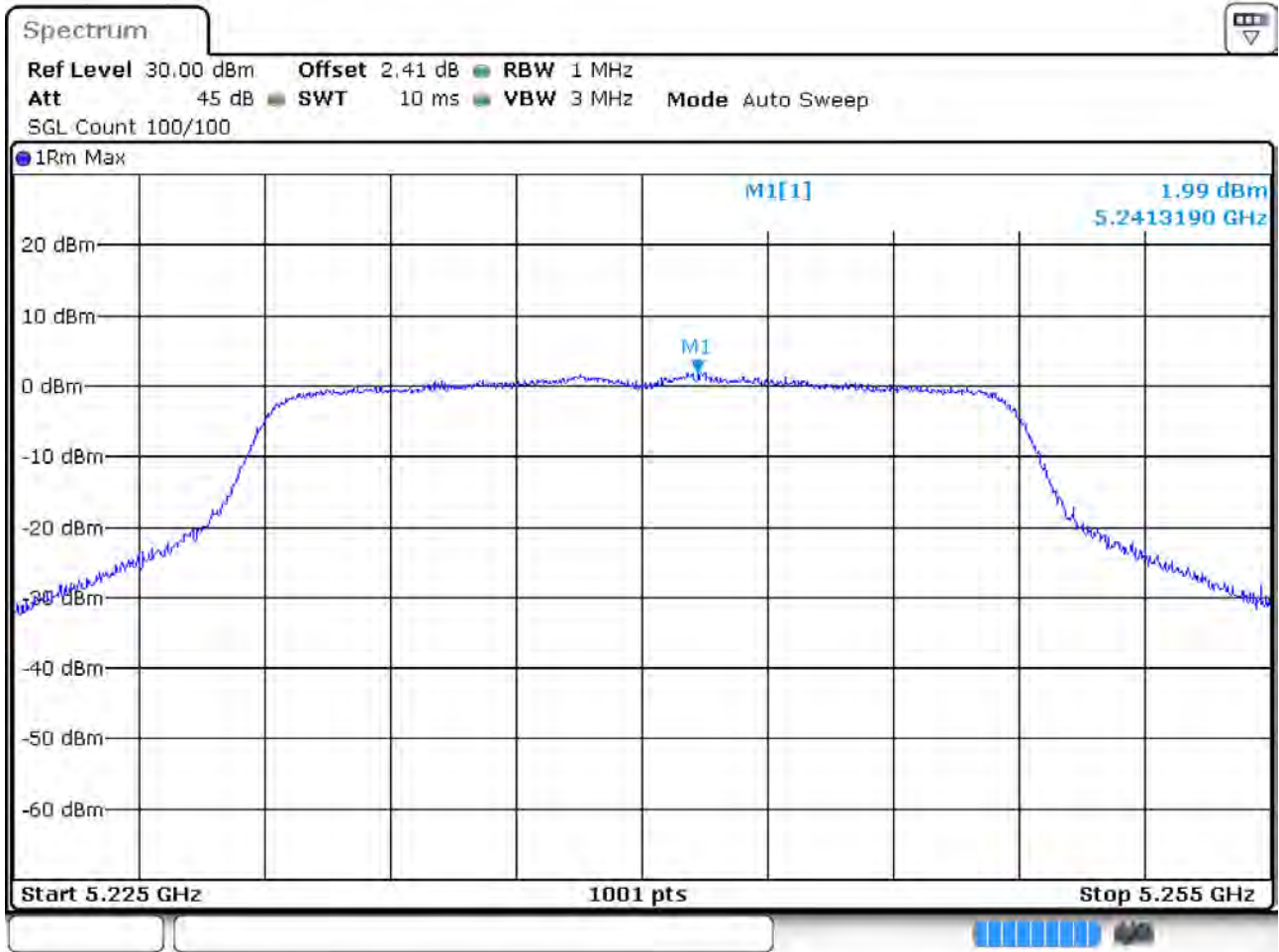
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4.8.2.35 11N20MIMO_48 ANT 1

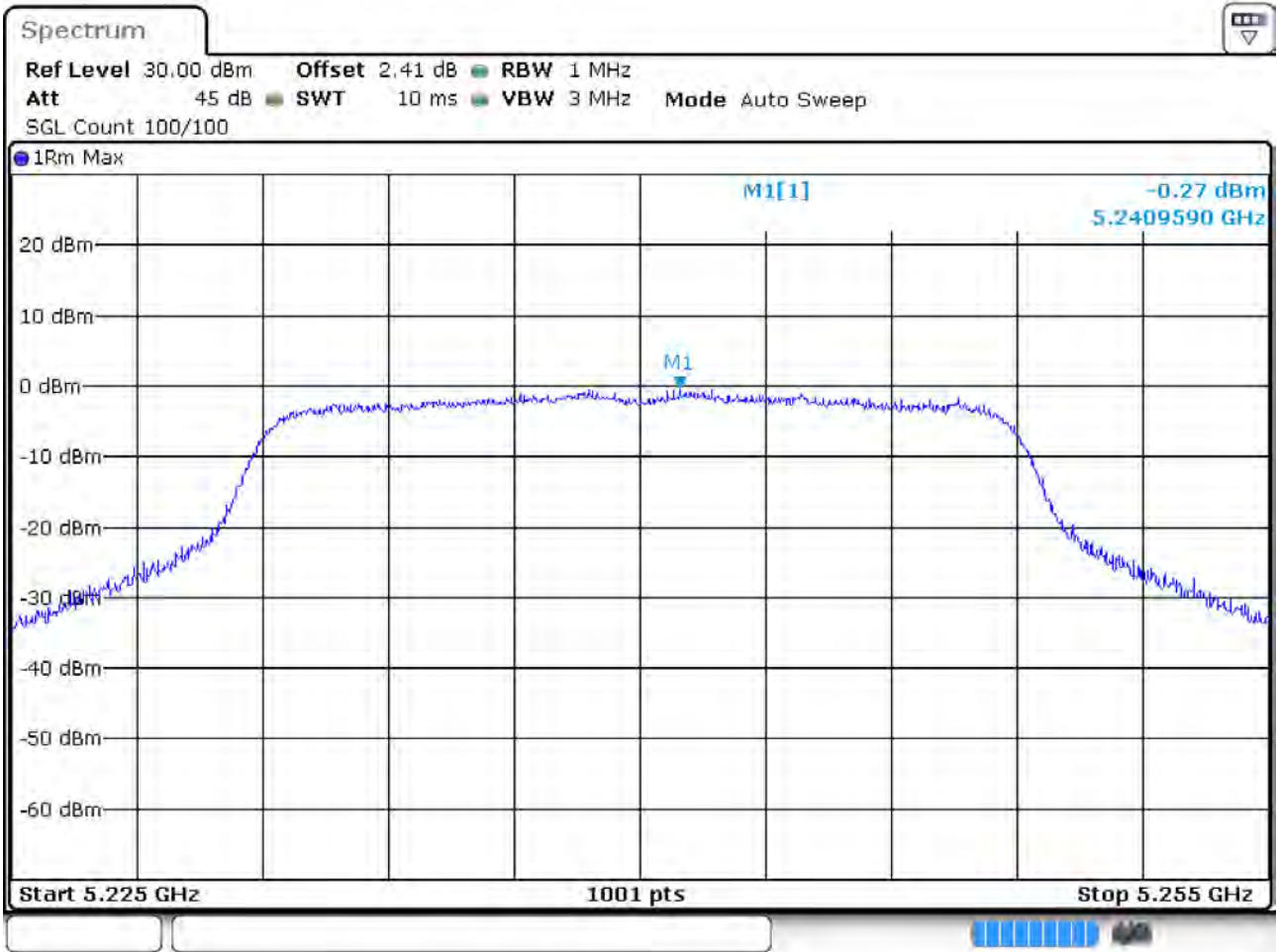


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4.8.2.36 11N20MIMO_48 ANT 2

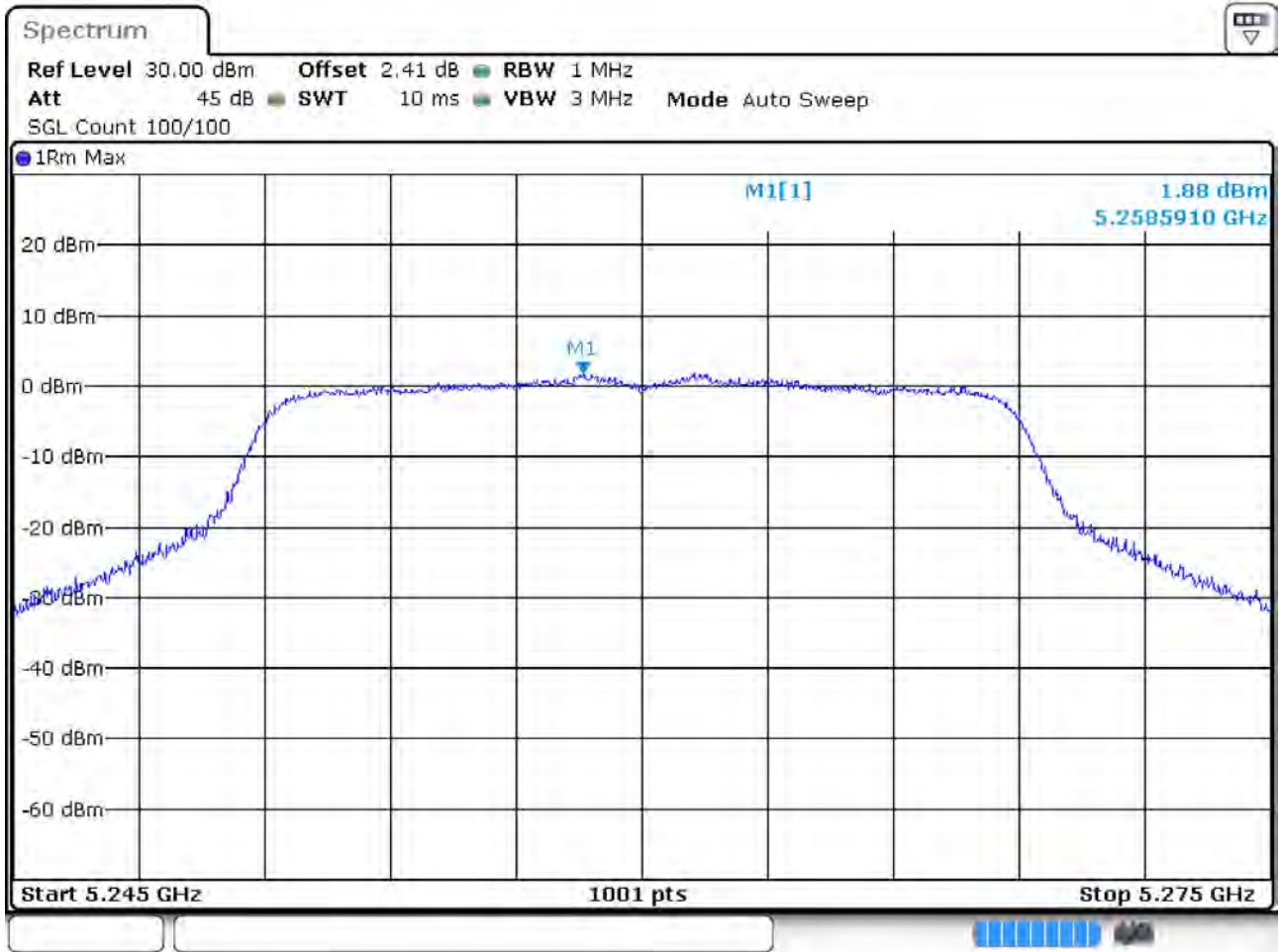


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4.8.2.37 11N20MIMO_52 ANT 1

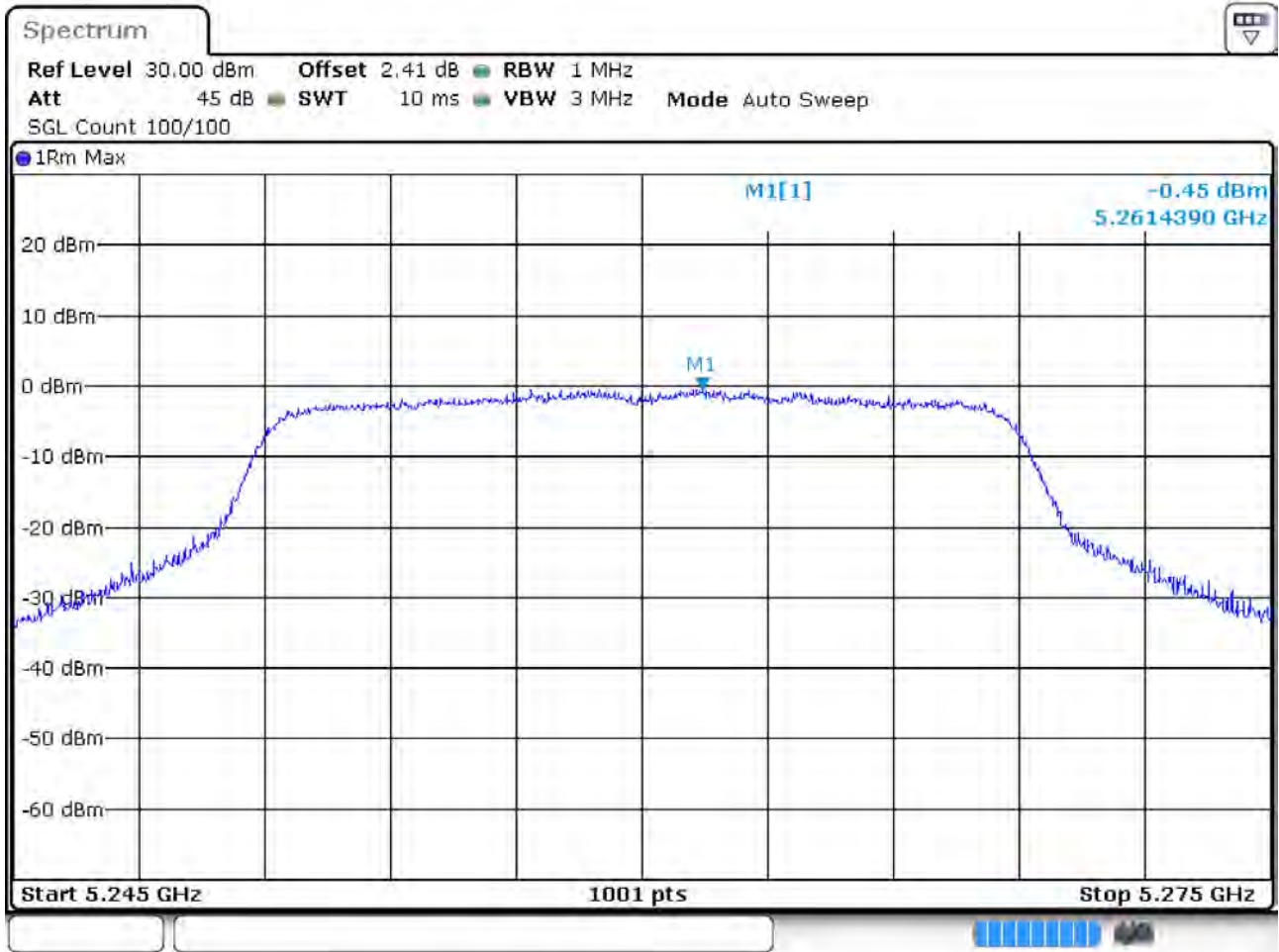


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4.8.2.38 11N20MIMO_52 ANT 2

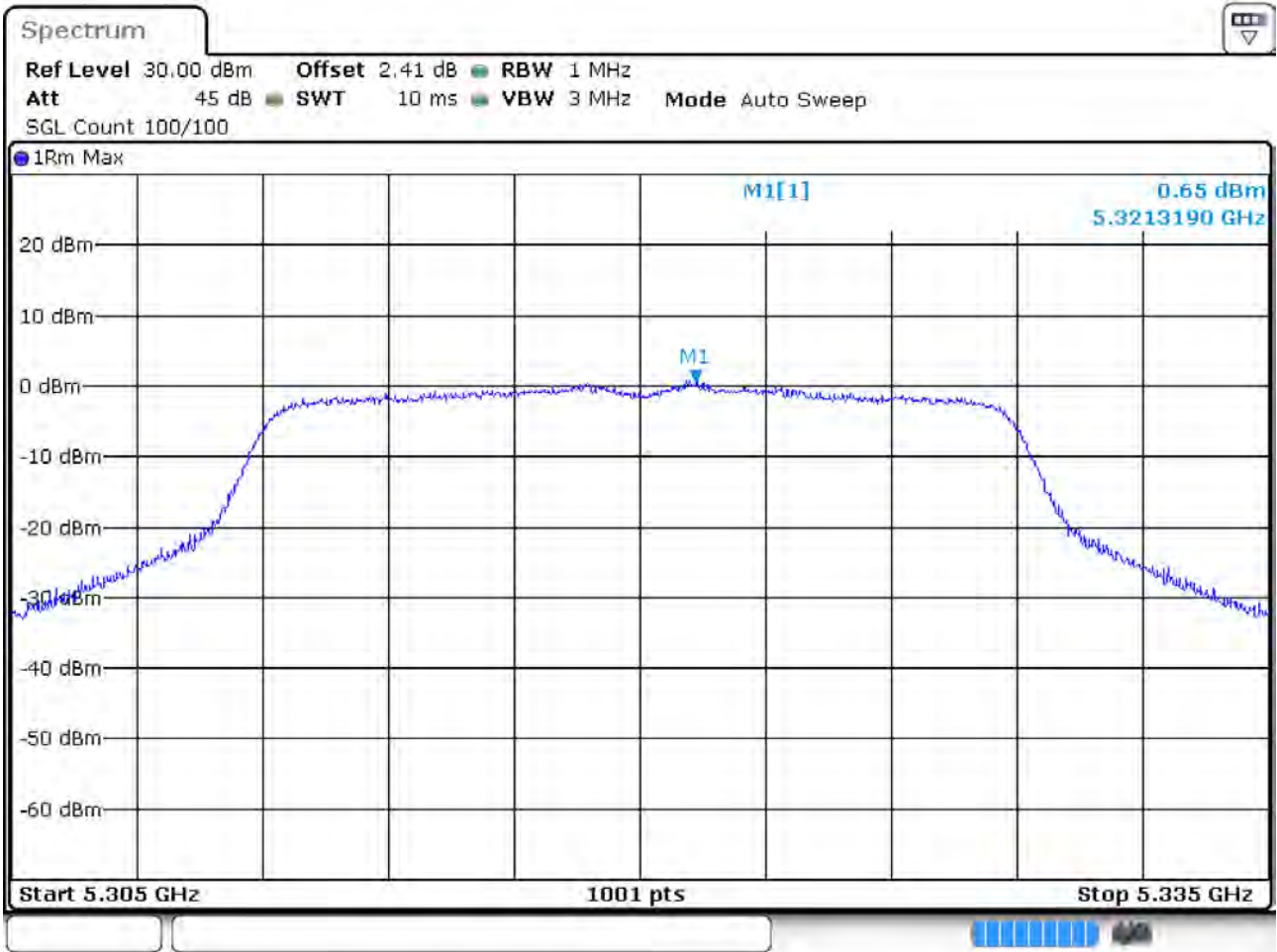


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4.8.2.39 11N20MIMO_64 ANT 1

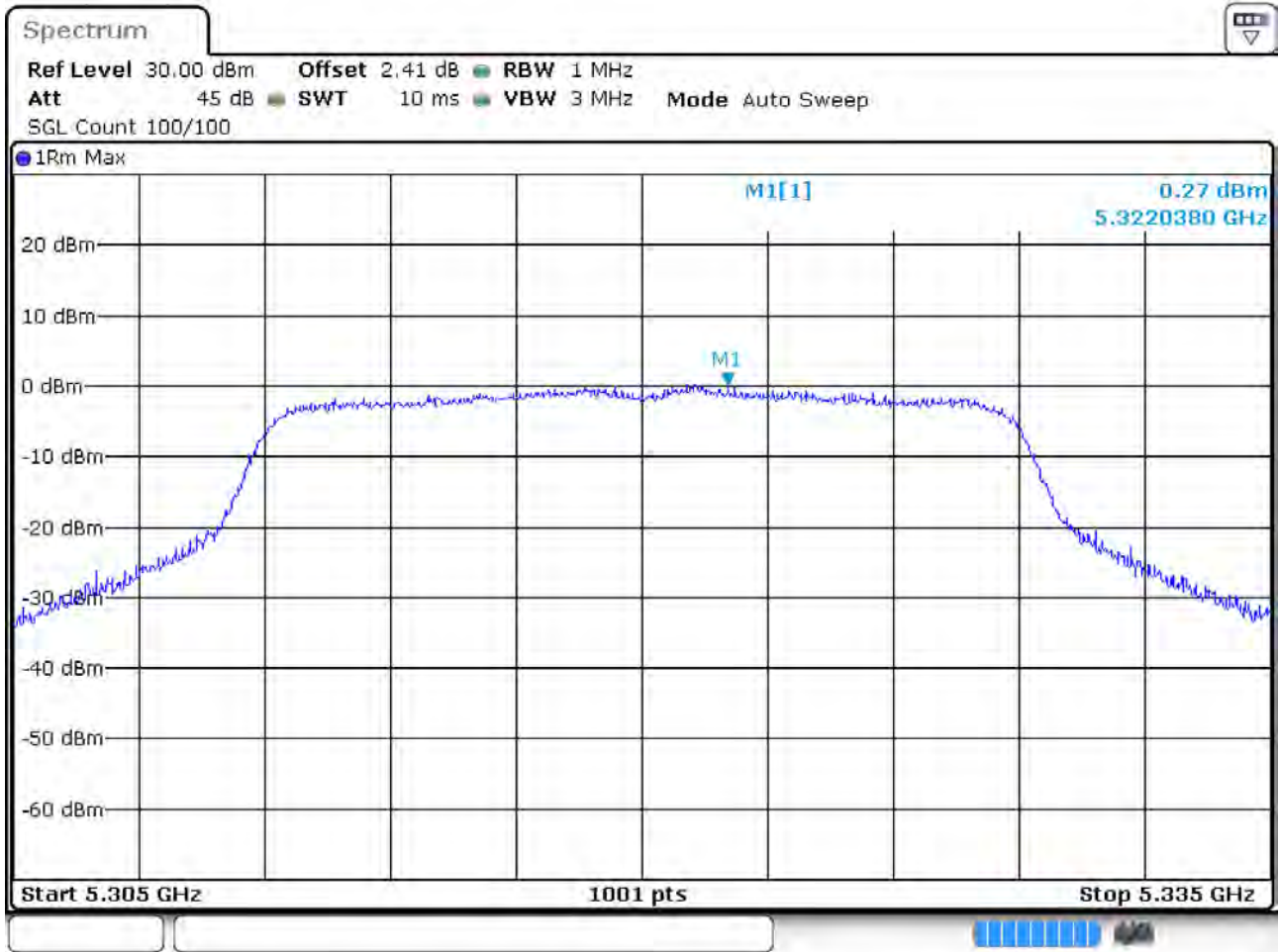


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4.8.2.40 11N20MIMO_64 ANT 2



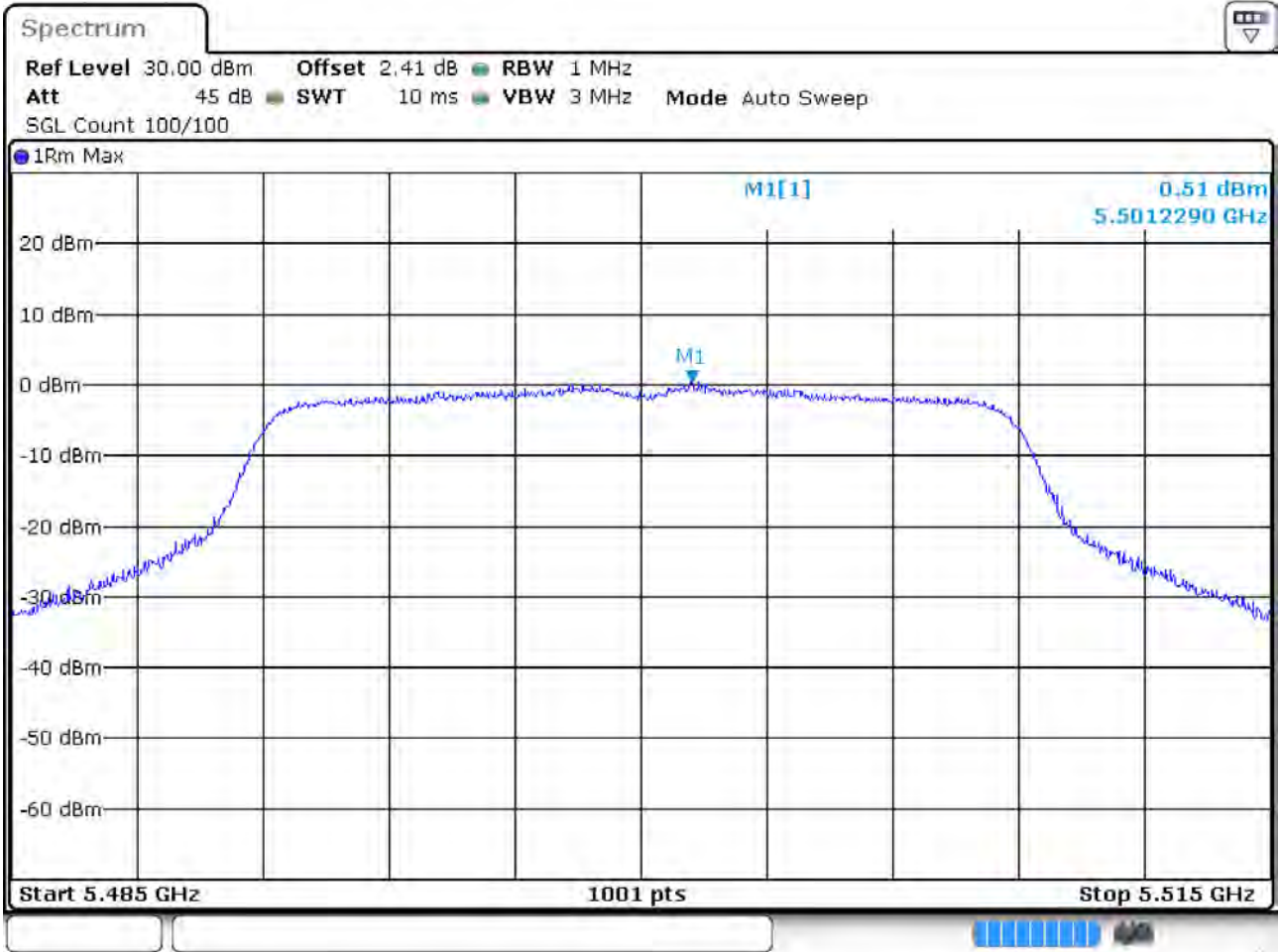
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4.8.2.41 11N20MIMO_100 ANT 1

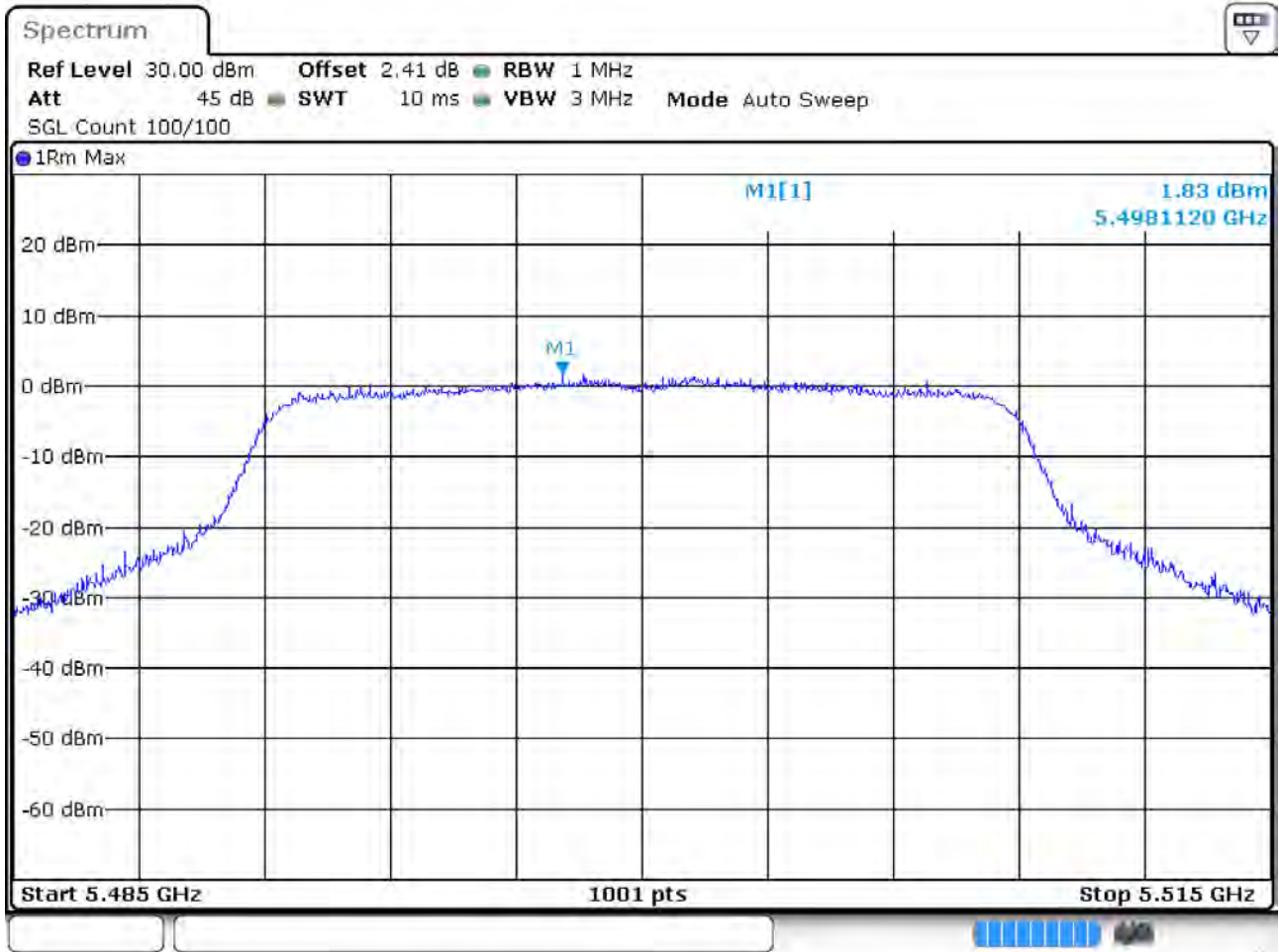


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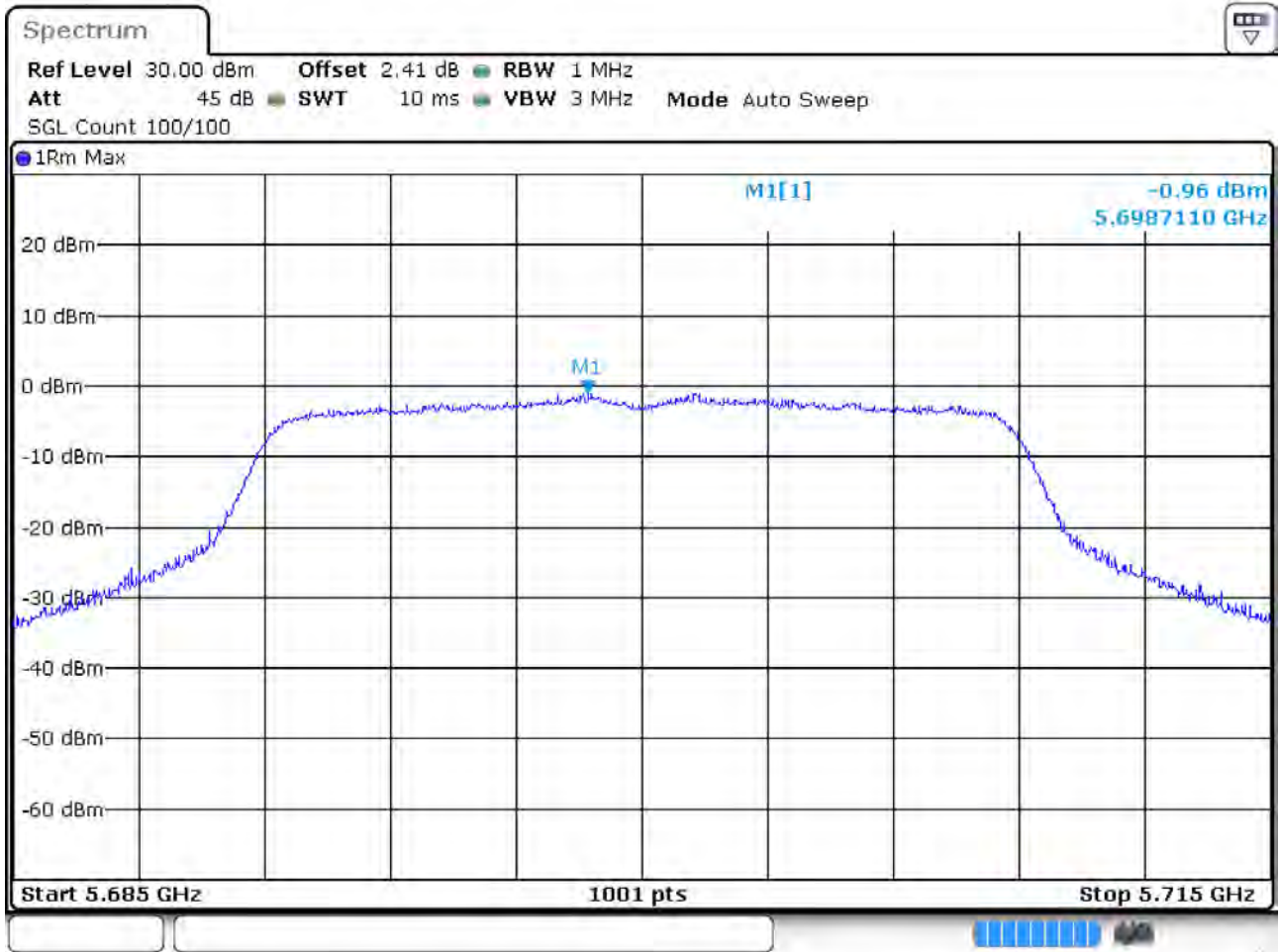
4.8.2.42 11N20MIMO_100 ANT 2



Date: 30 JUL 2019 06:13:07



4.8.2.43 11N20MIMO_140 ANT 1



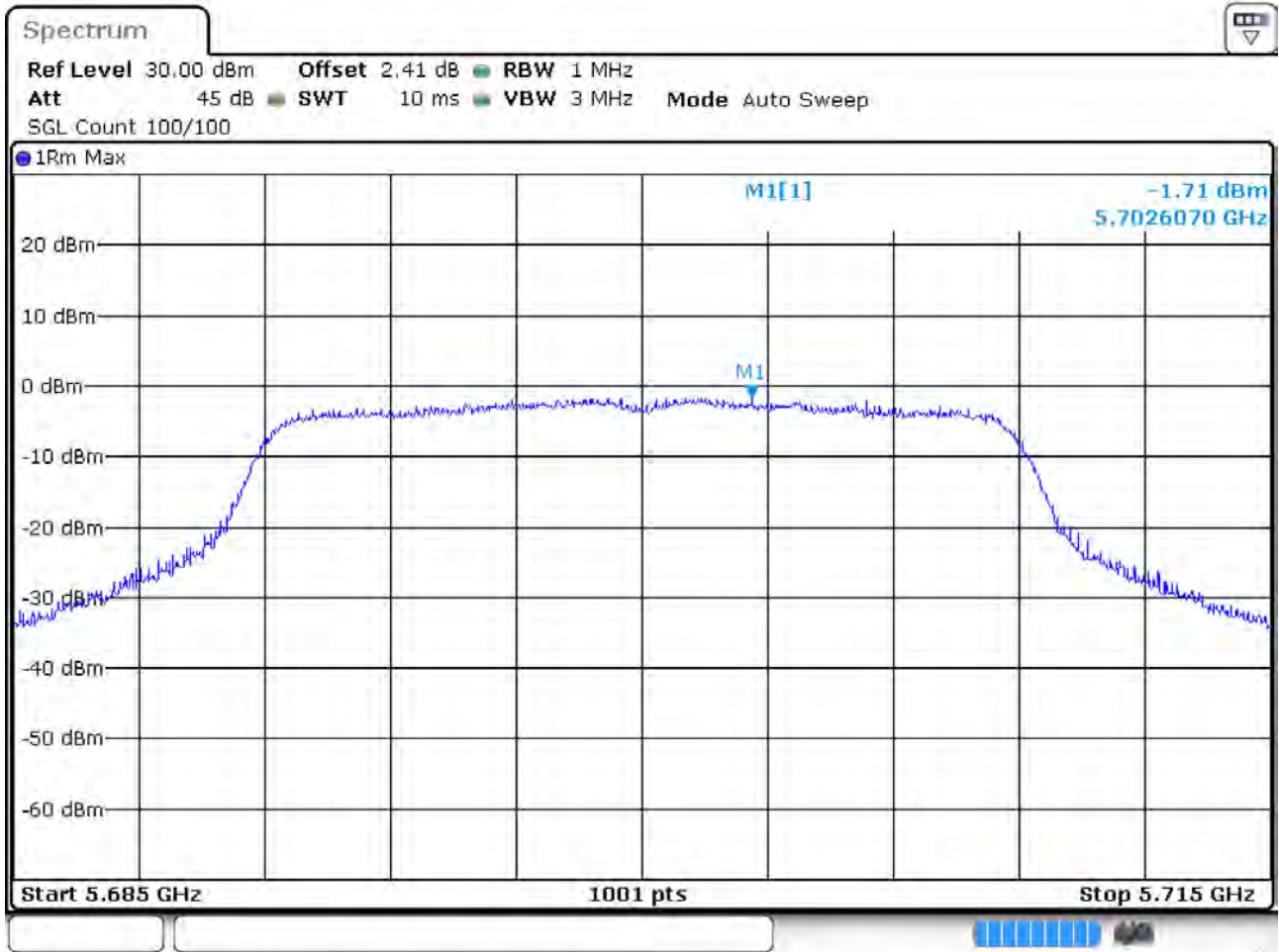
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4.8.2.44 11N20MIMO_140 ANT 2



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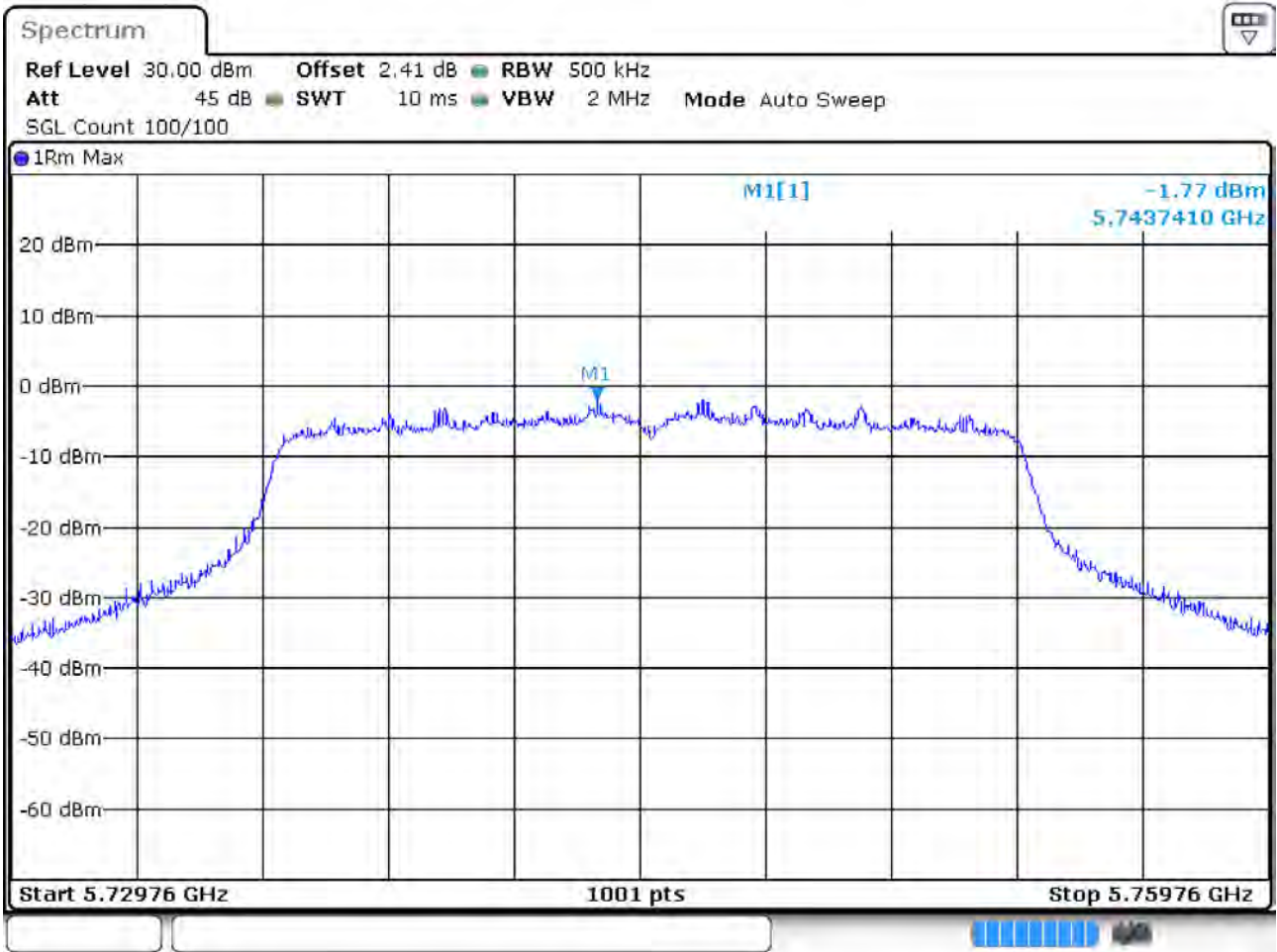


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4.8.2.45 11N20MIMO_149 ANT 1

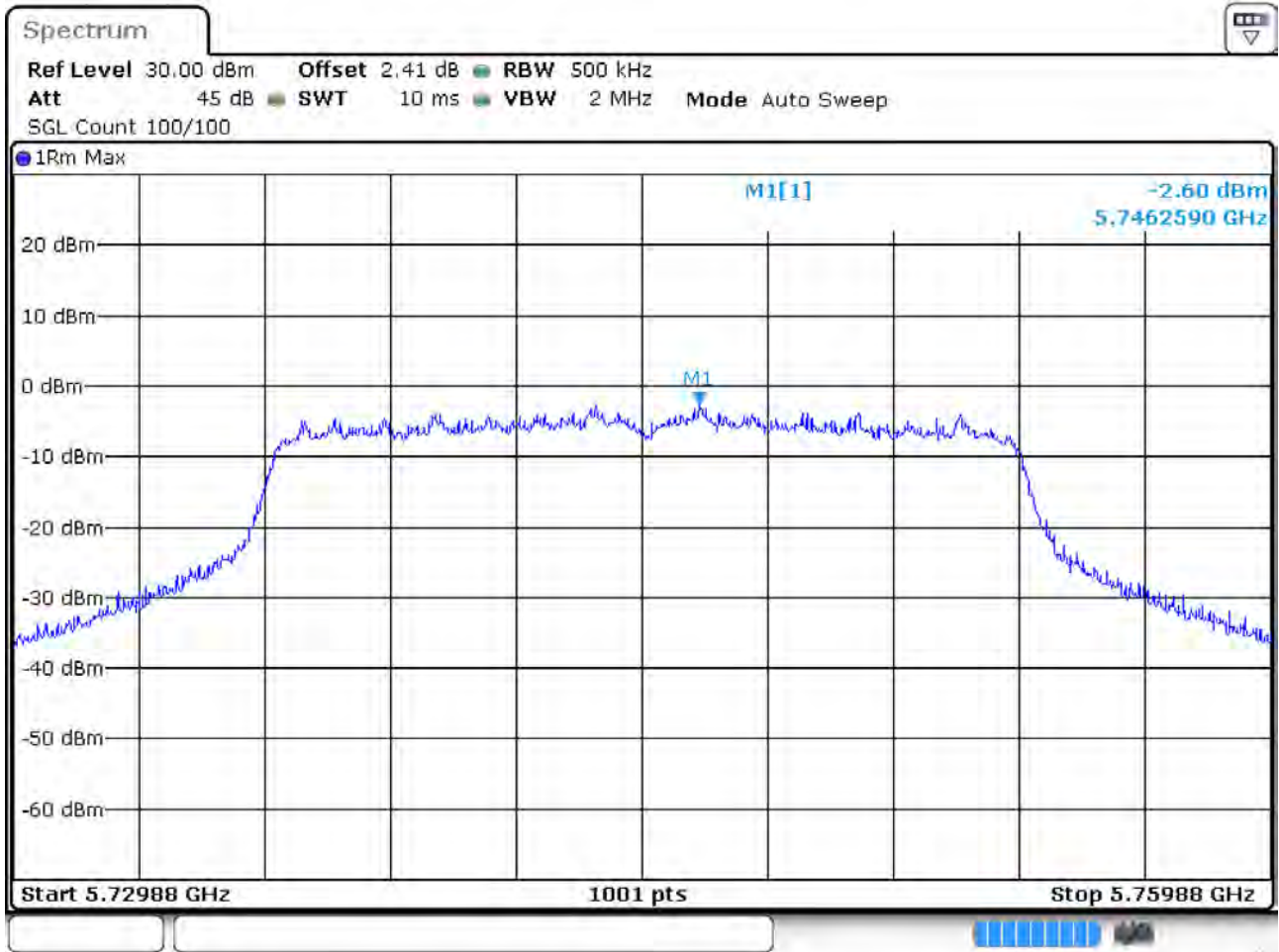


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4.8.2.46 11N20MIMO_149 ANT 2

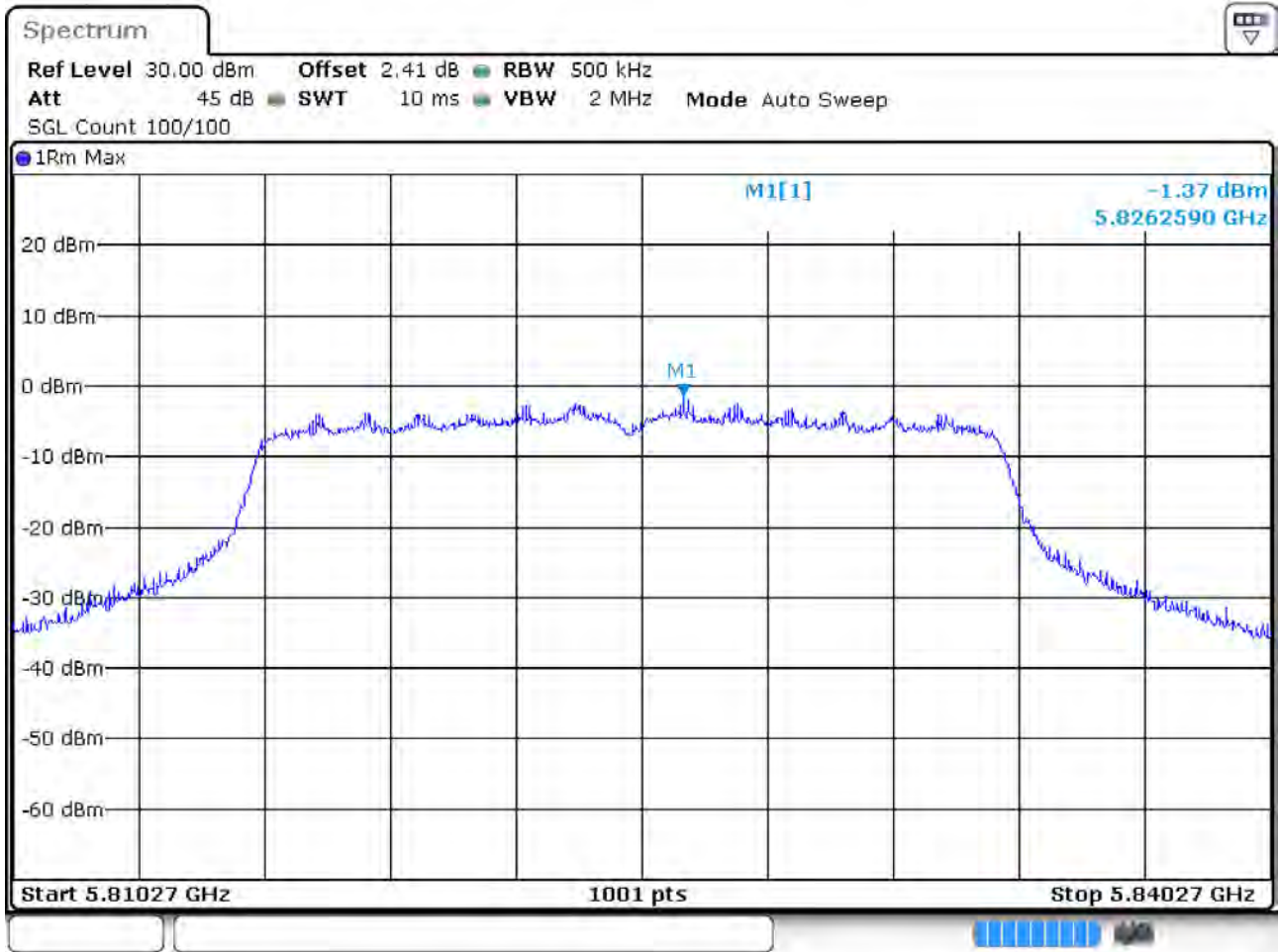


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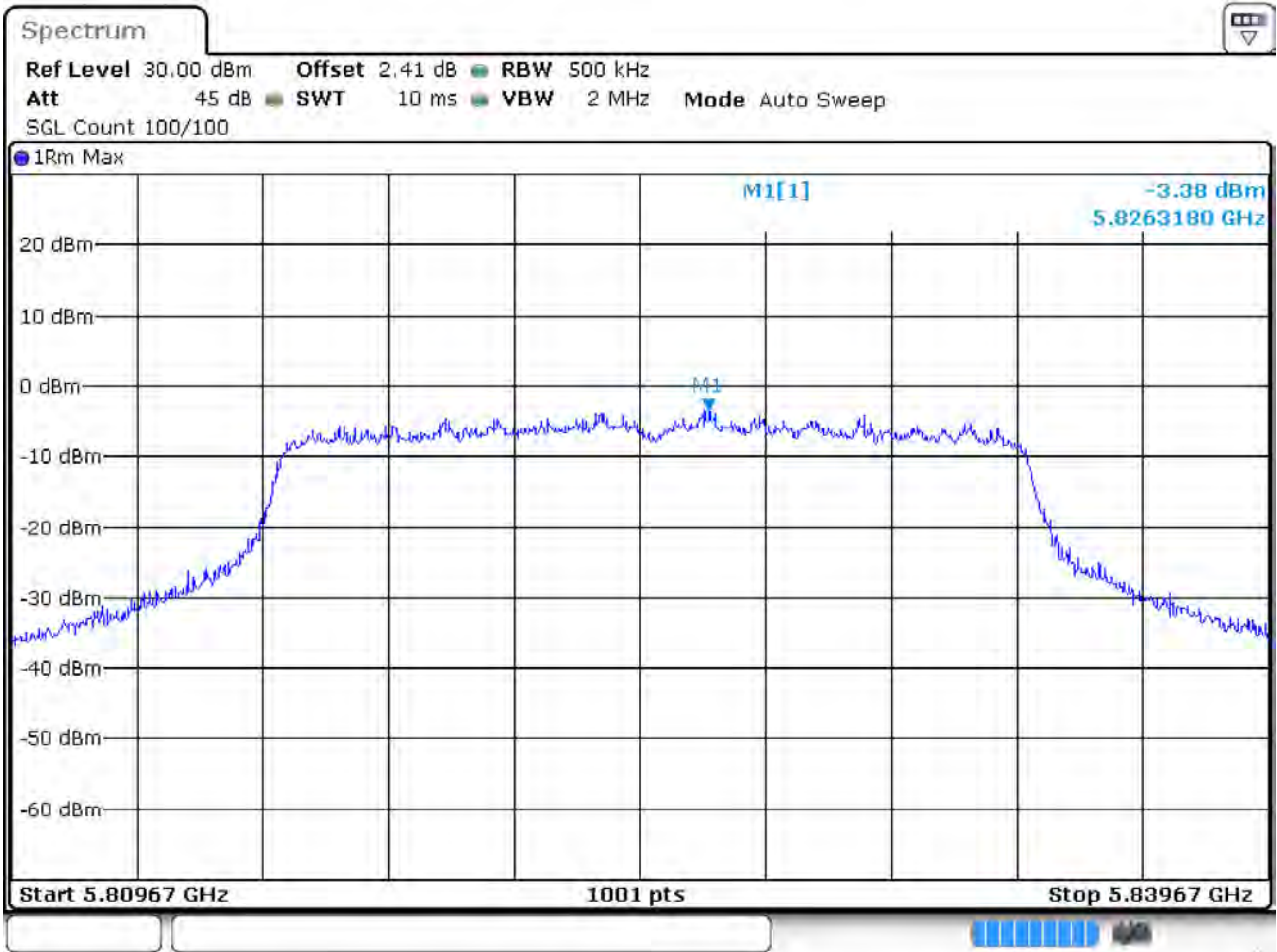
4.8.2.47 11N20MIMO_165 ANT 1



Date: 30 JUL 2019 06:01:58



4.8.2.48 11N20MIMO_165 ANT 2



Date: 30 JUL 2019 06:20:03

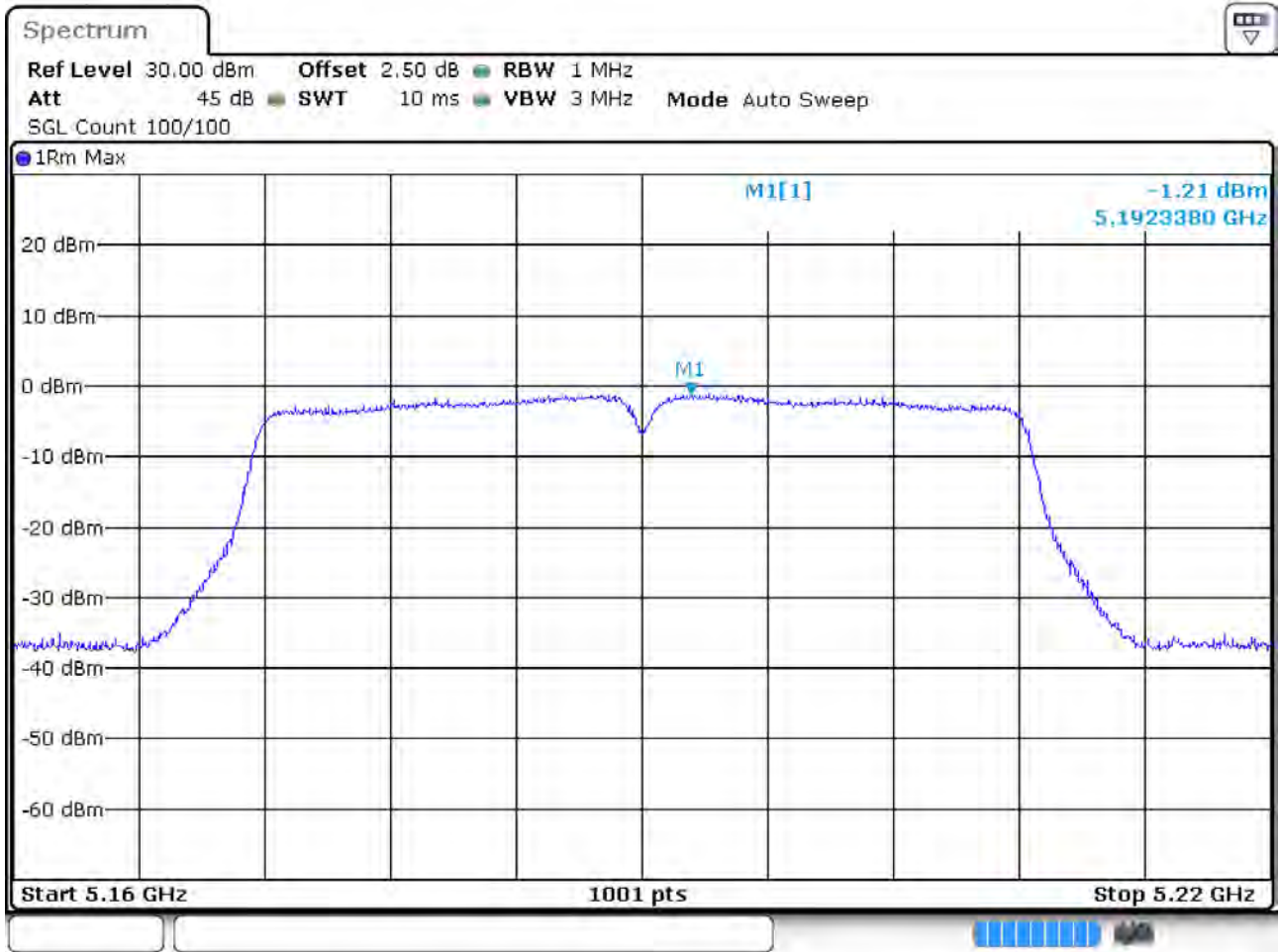


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4.8.2.49 11N40_38 ANT 1



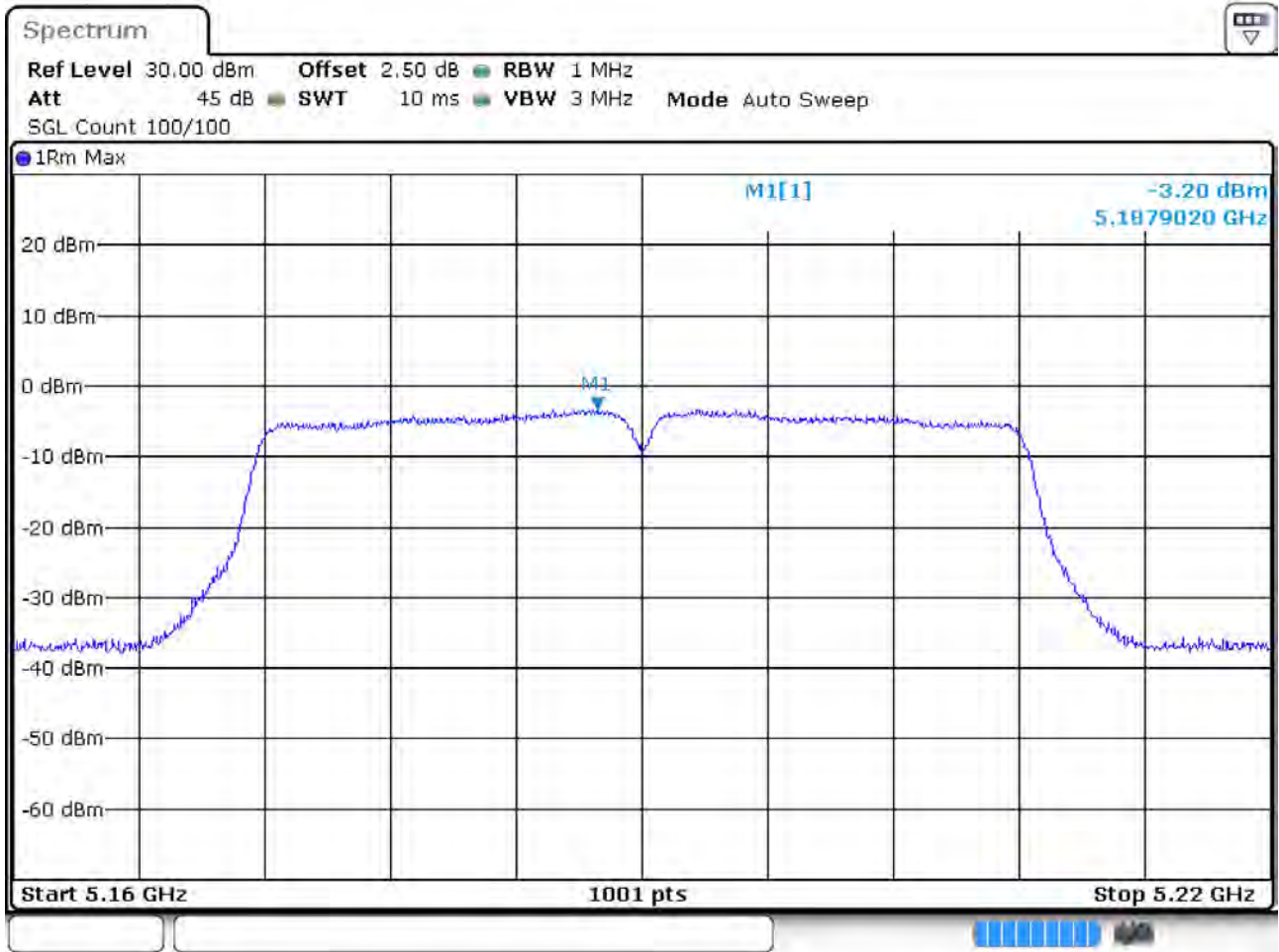
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4.8.2.50 11N40_38 ANT 2

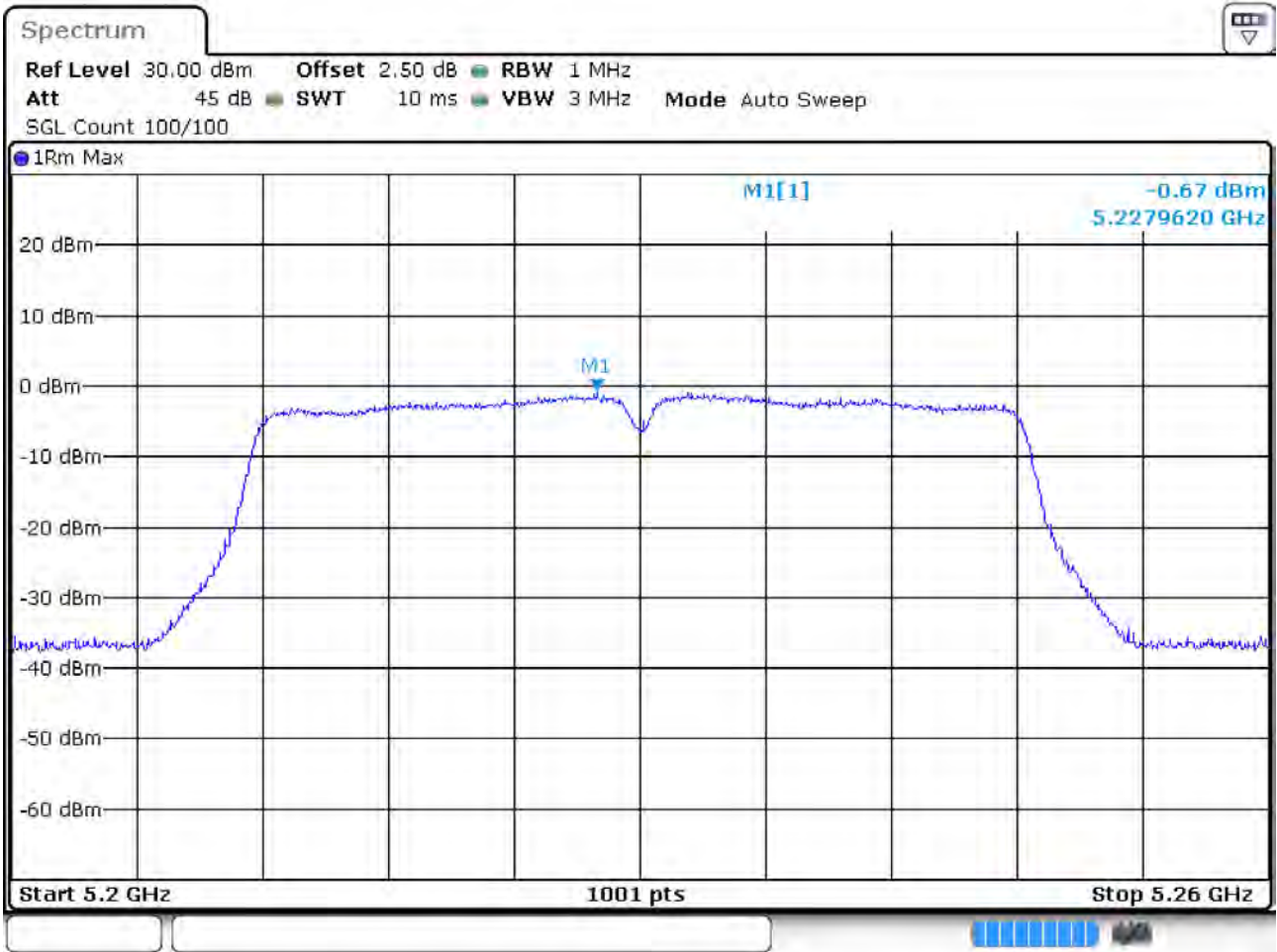


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4.8.2.51 11N40_46 ANT 1



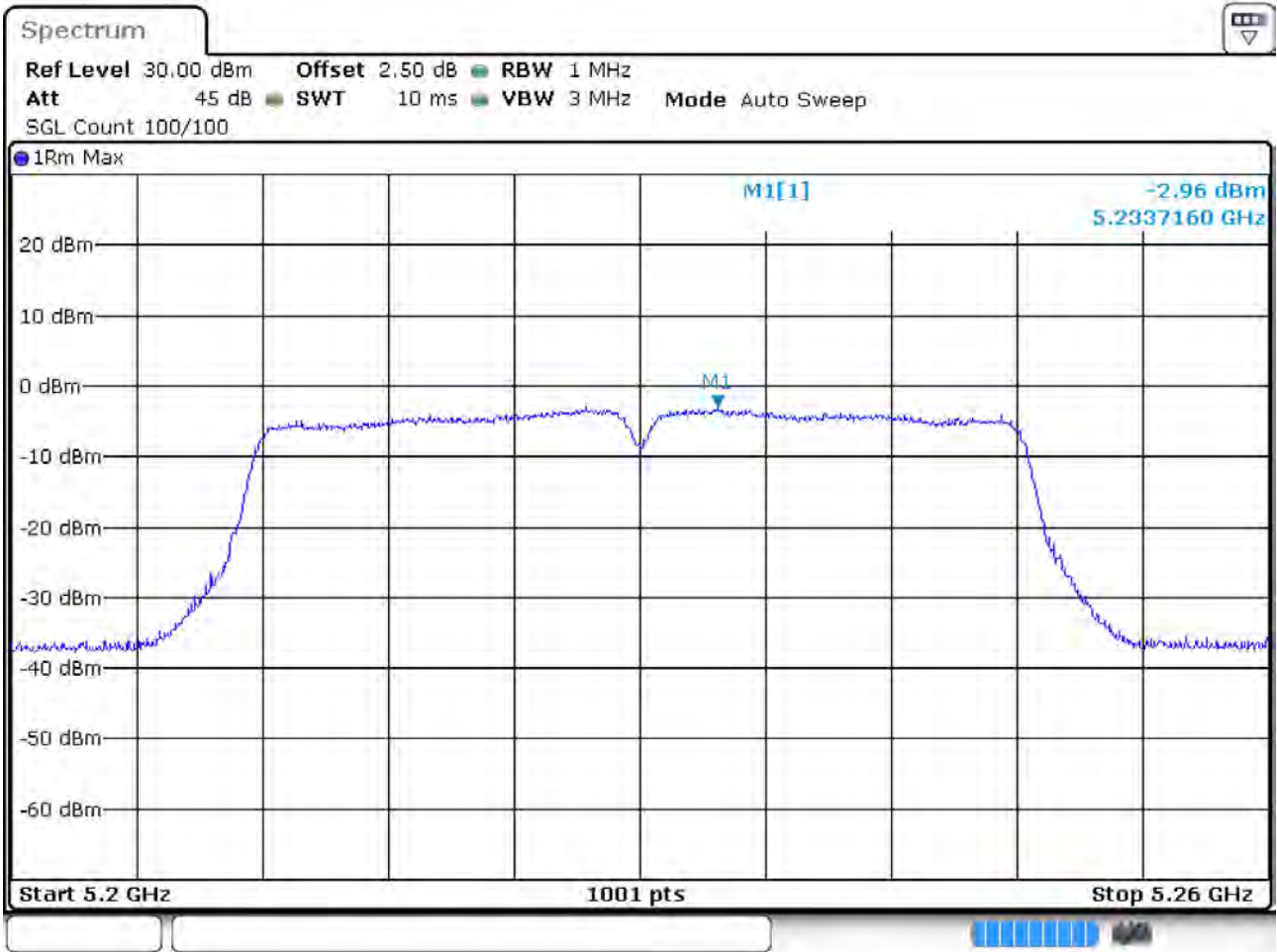
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4.8.2.52 11N40_46 ANT 2



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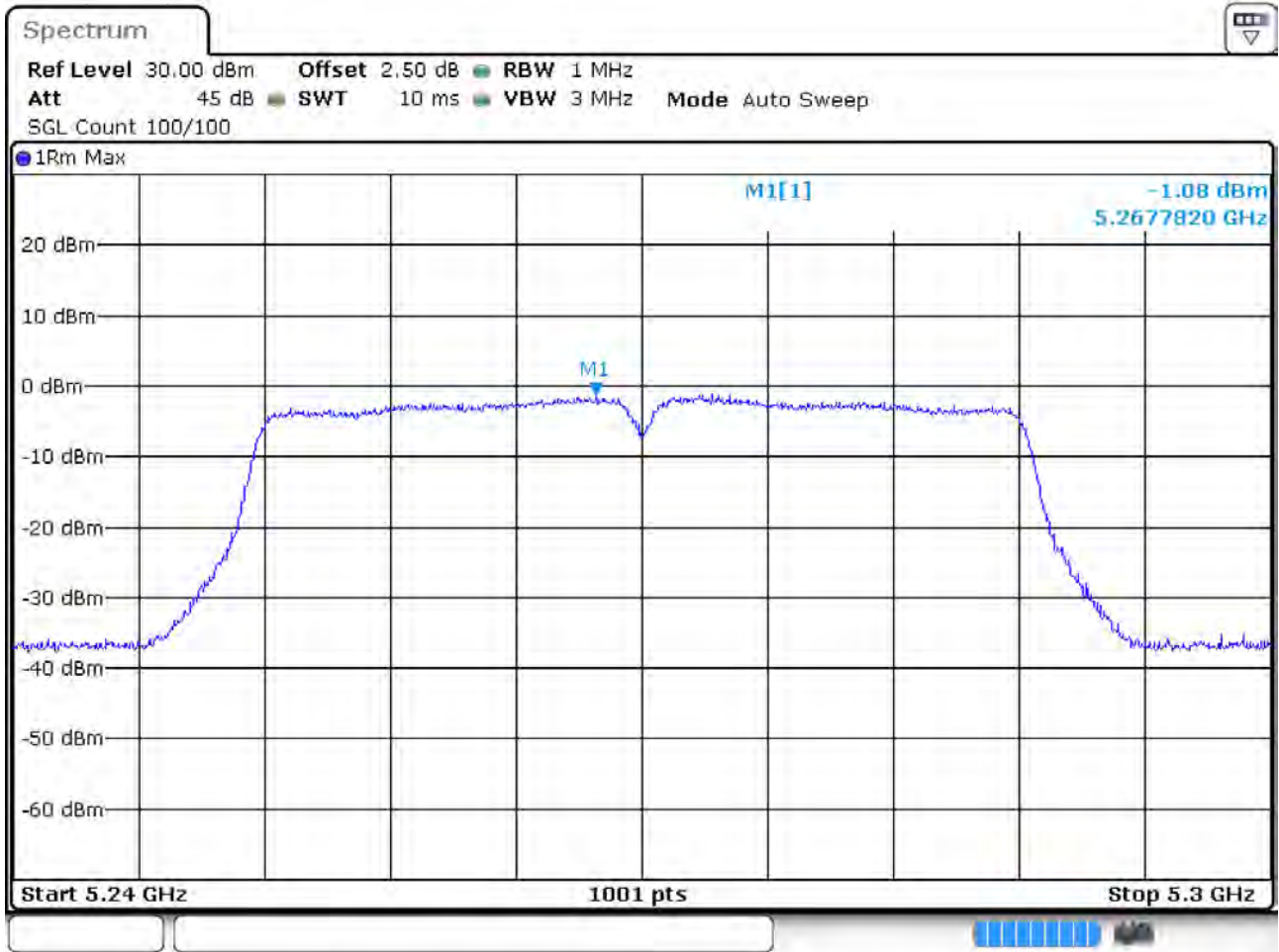


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4.8.2.53 11N40_54 ANT 1

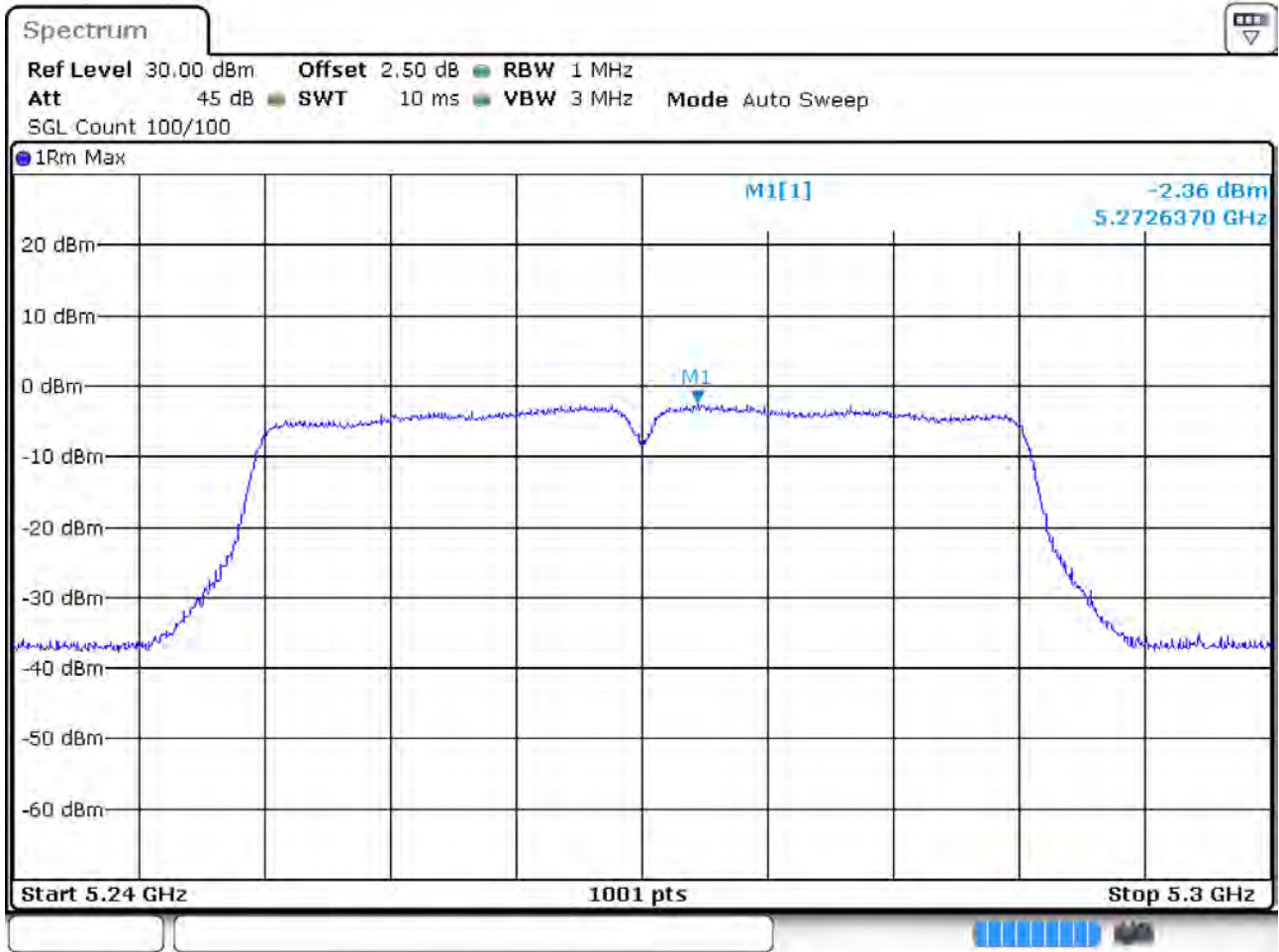


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4.8.2.54 11N40_54 ANT 2

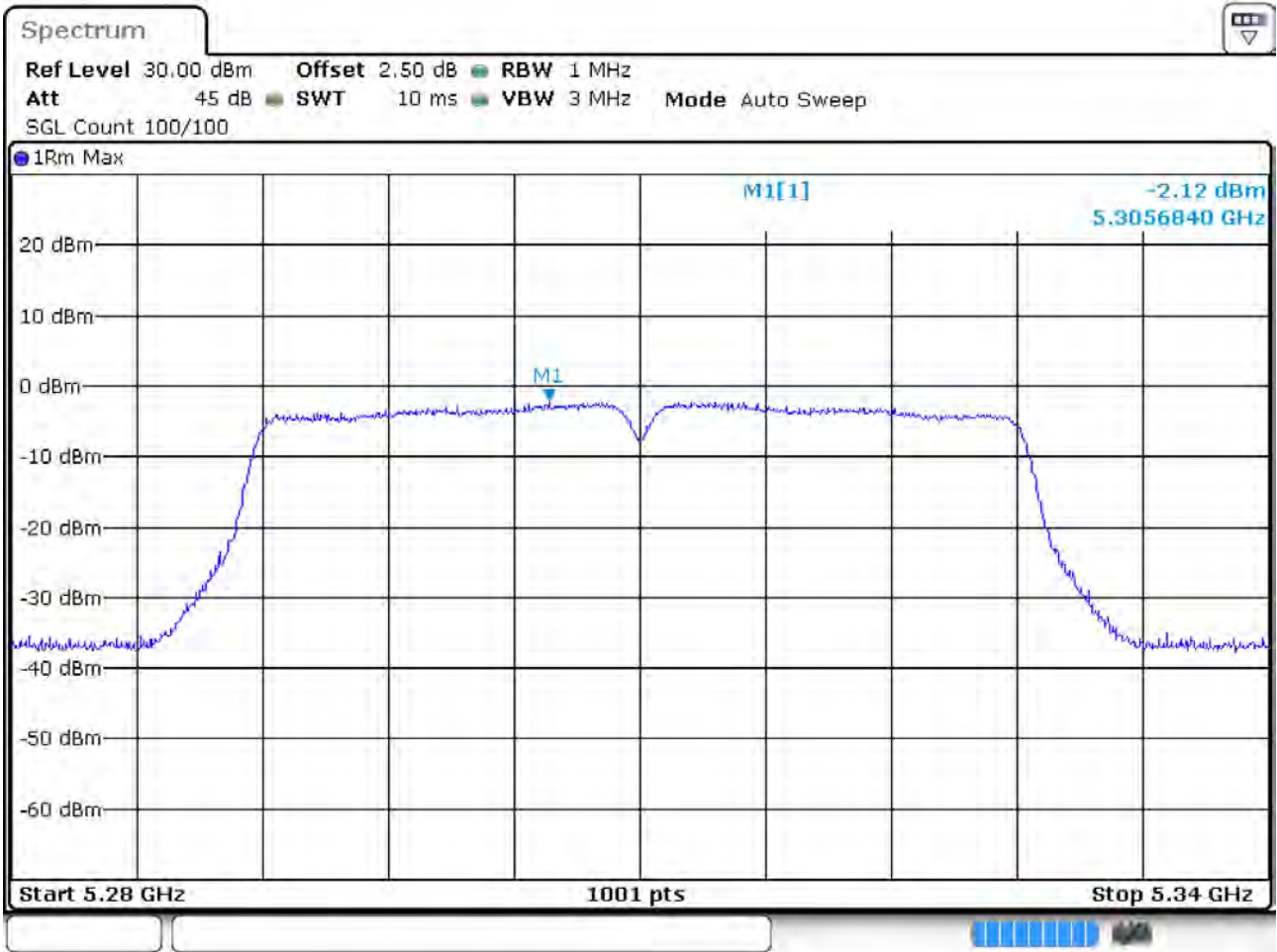


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4.8.2.55 11N40_62 ANT 1



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4.8.2.56 11N40_62 ANT 2



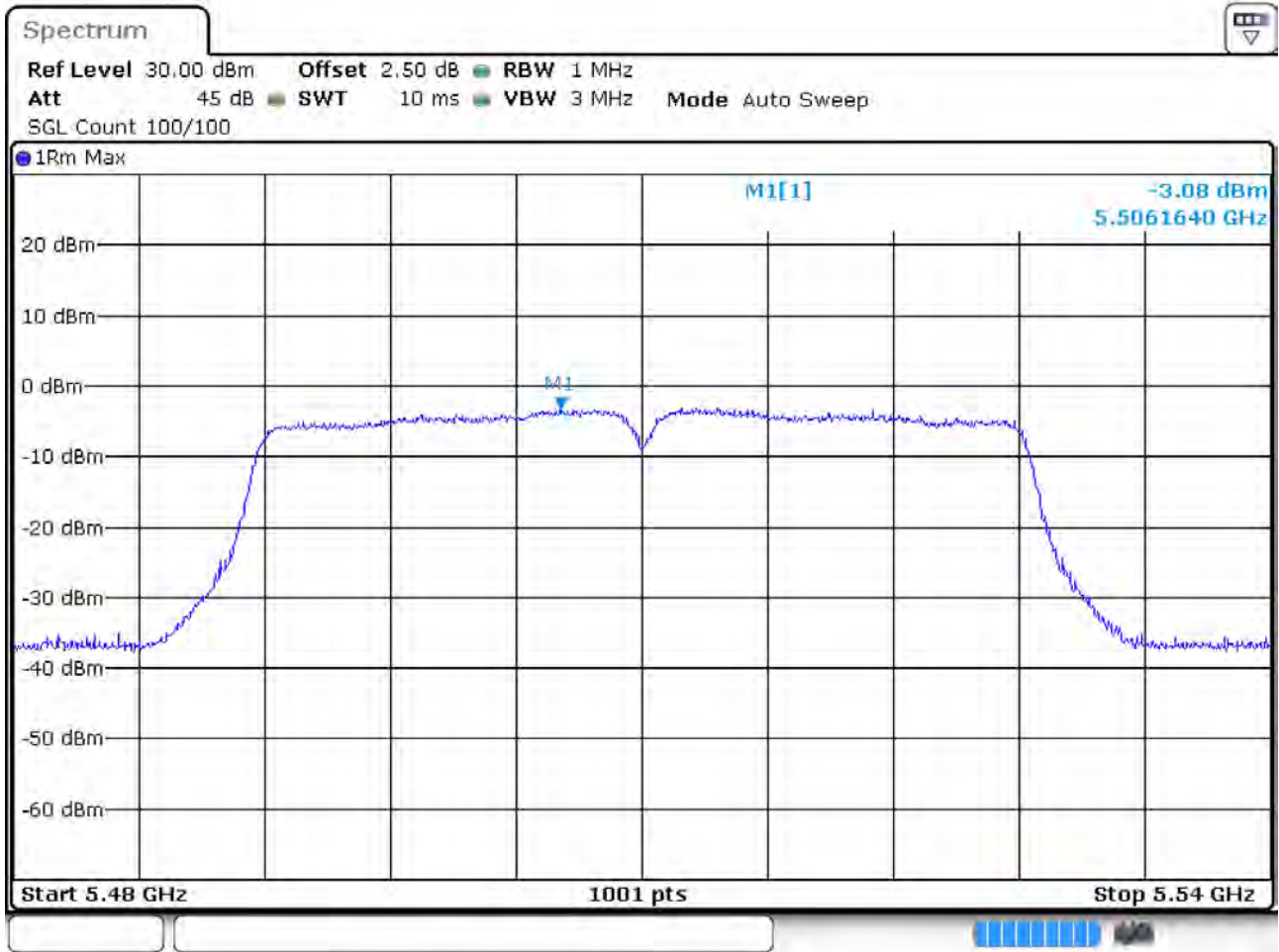
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4.8.2.57 11N40_102 ANT 1



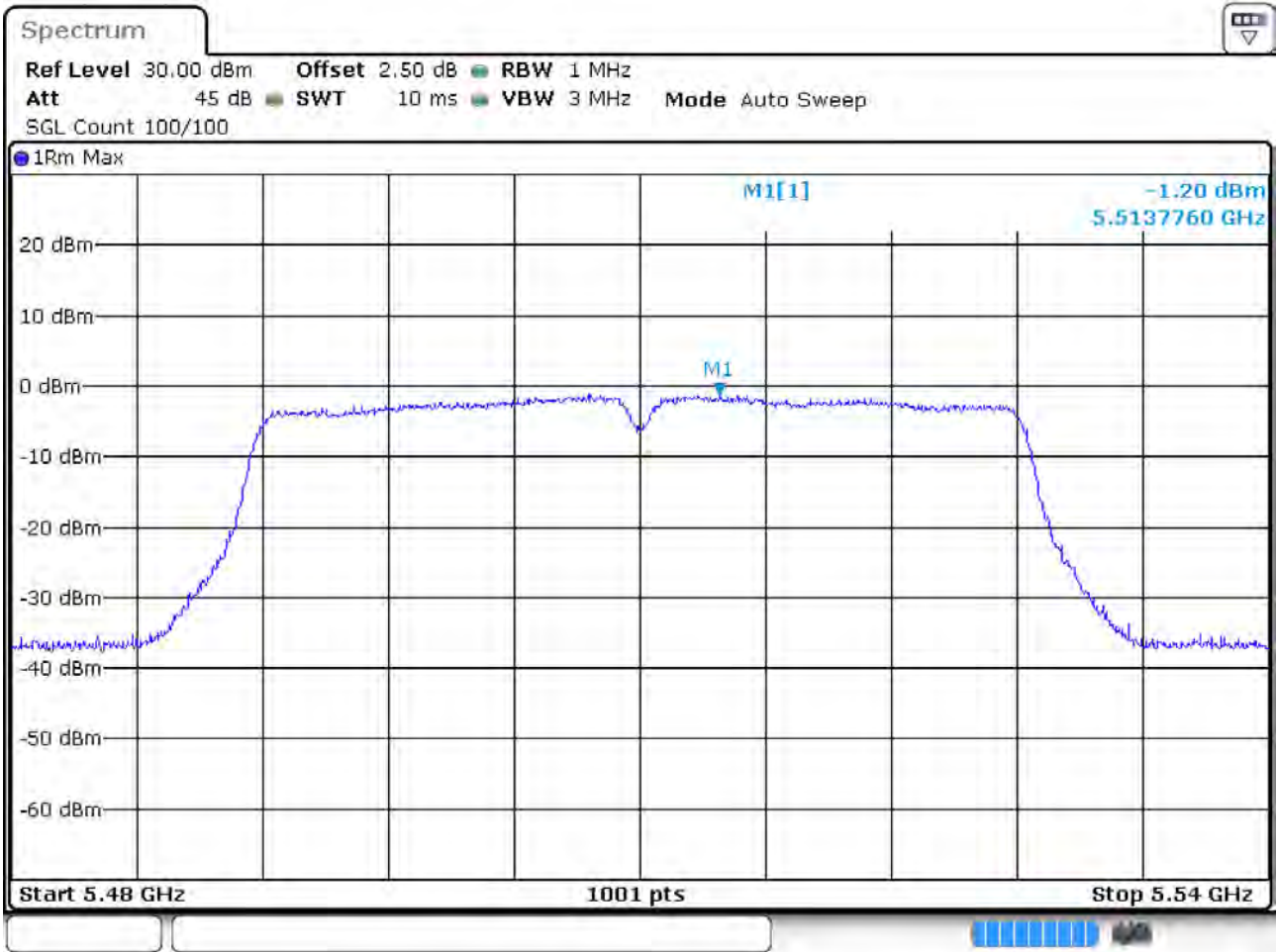
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4.8.2.58 11N40_102 ANT 2



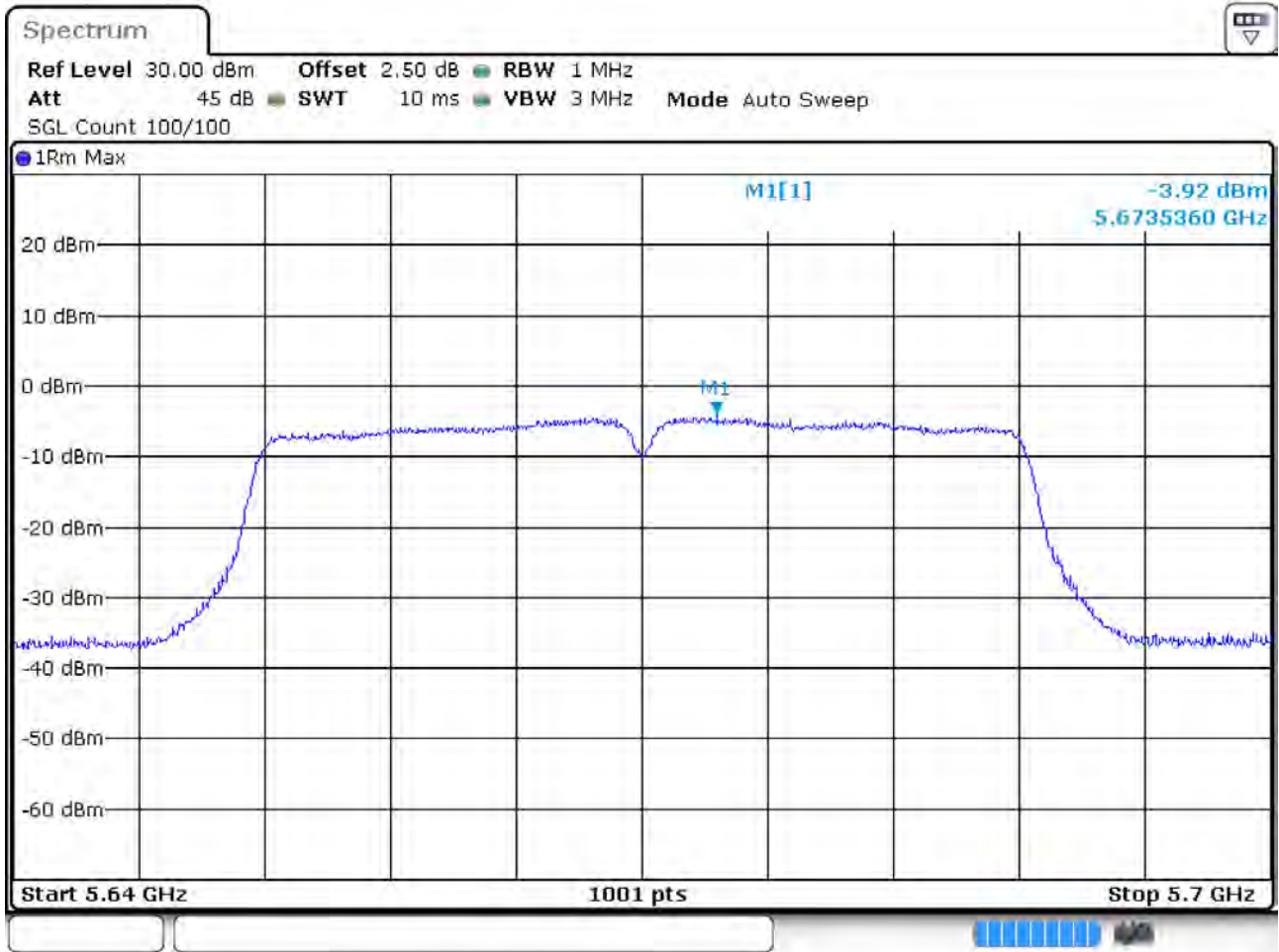
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4.8.2.59 11N40_134 ANT 1



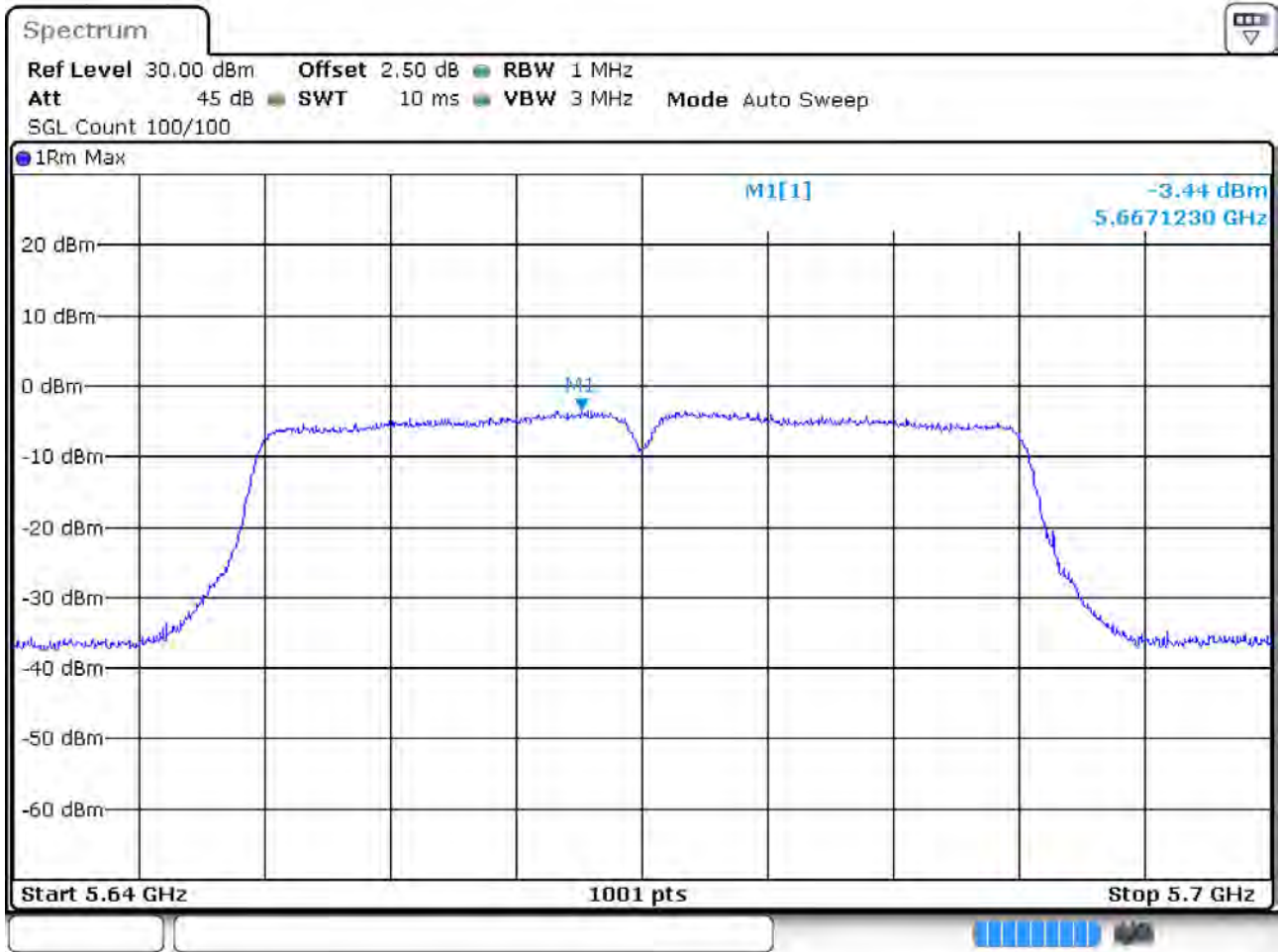
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4.8.2.60 11N40_134 ANT 2



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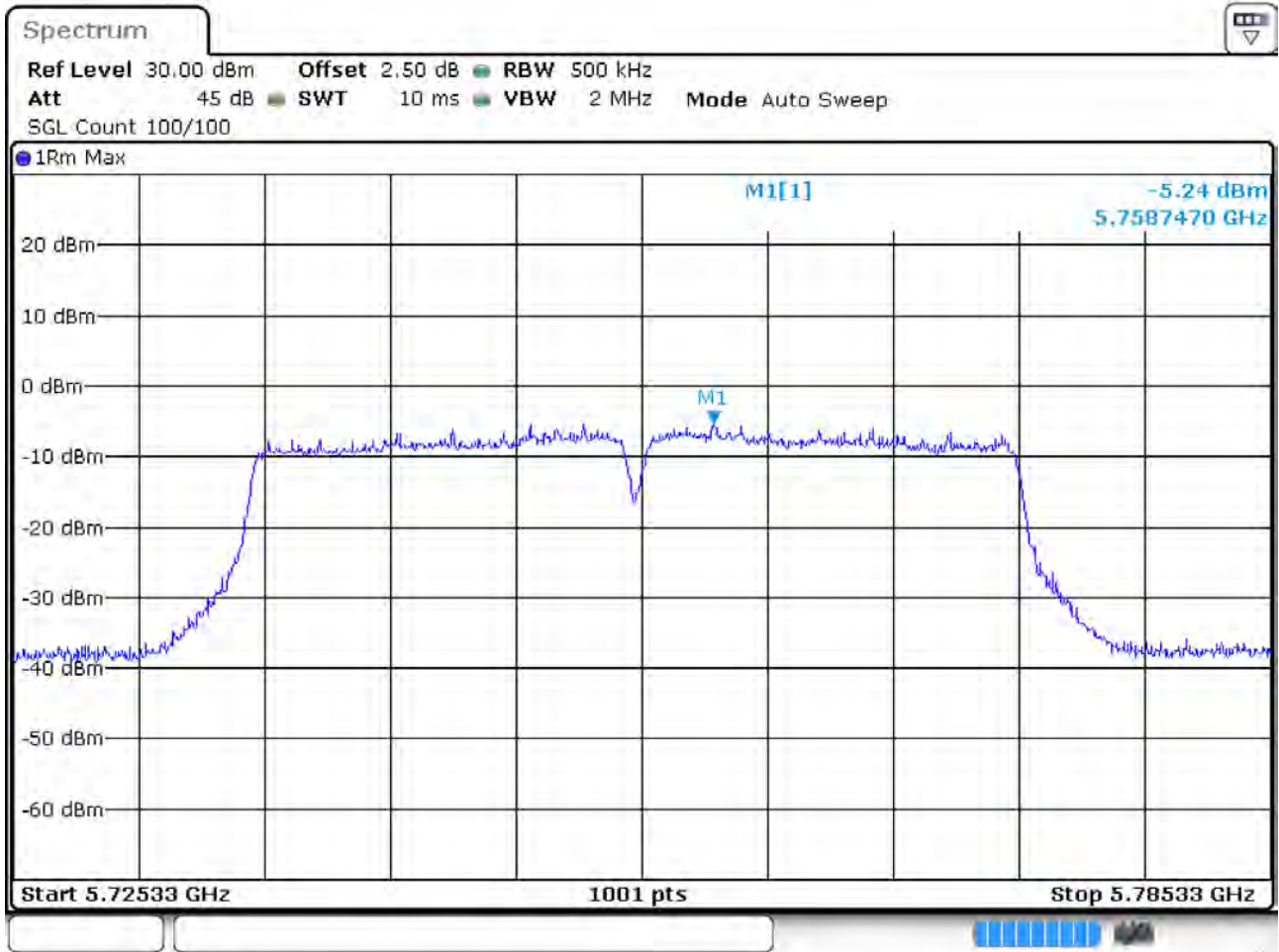


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4.8.2.61 11N40_151 ANT 1



Date: 30 JUL 2019 02:11:20

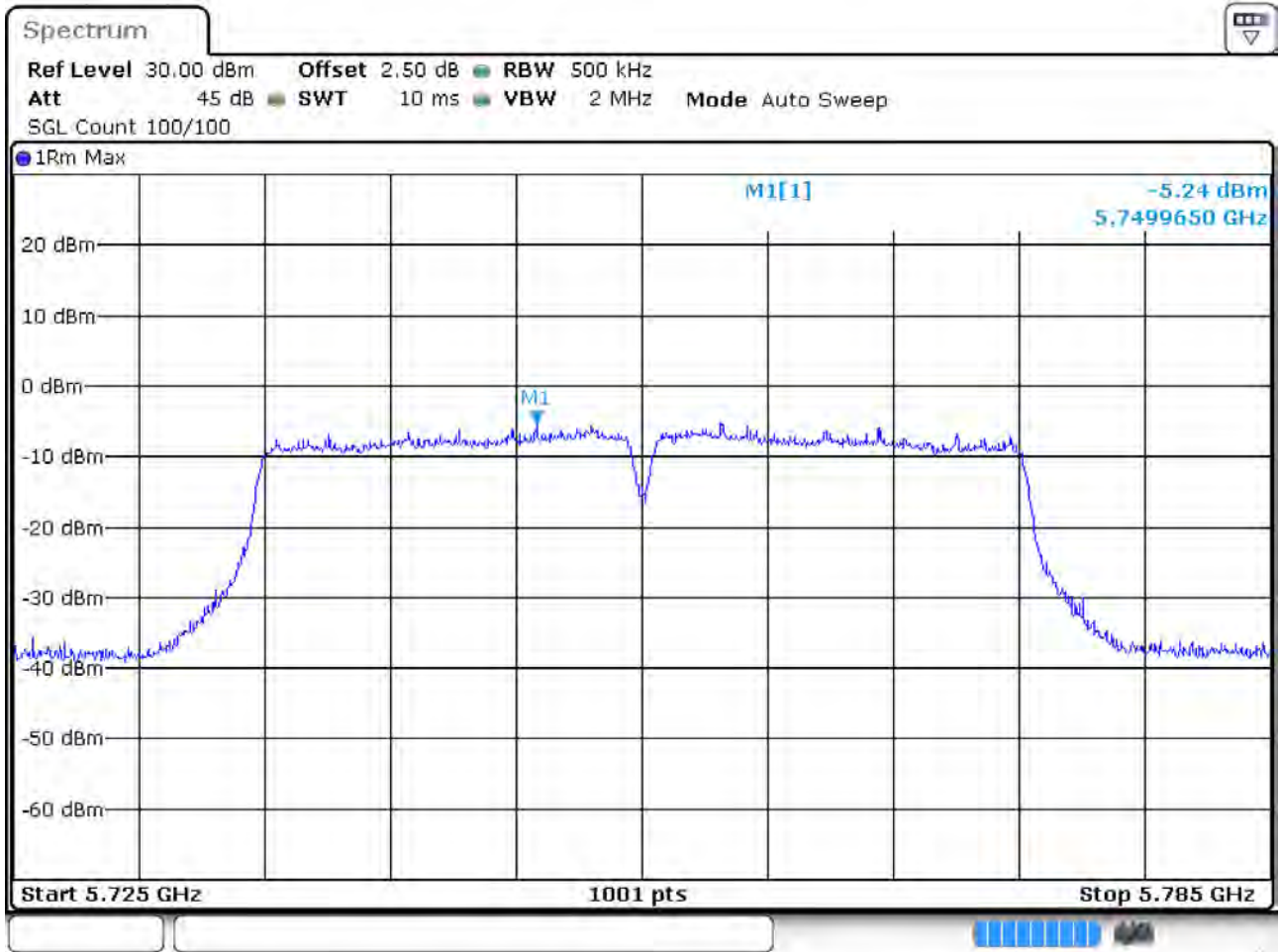


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4.8.2.62 11N40_151 ANT 2



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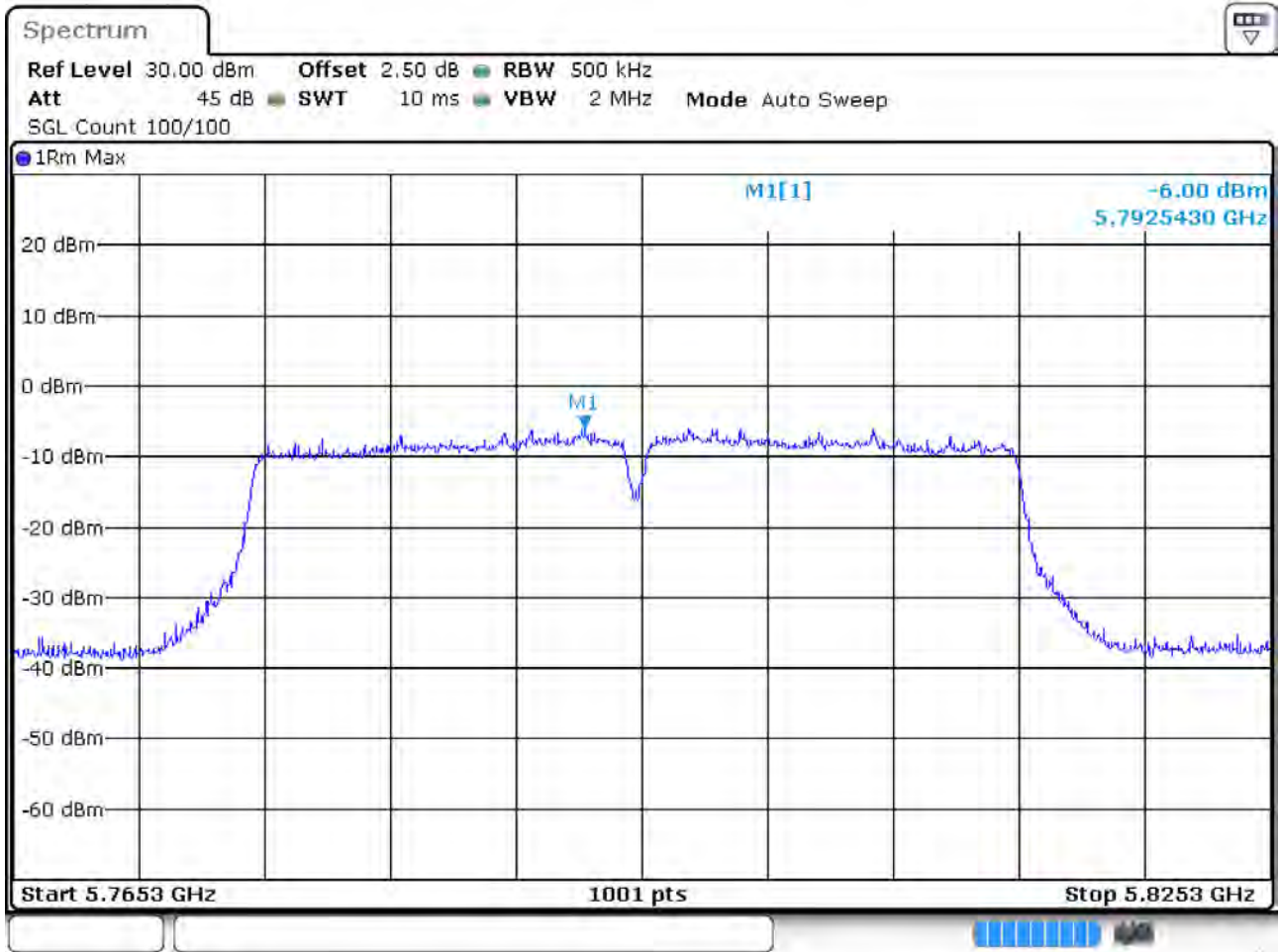


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4.8.2.63 11N40_159 ANT 1



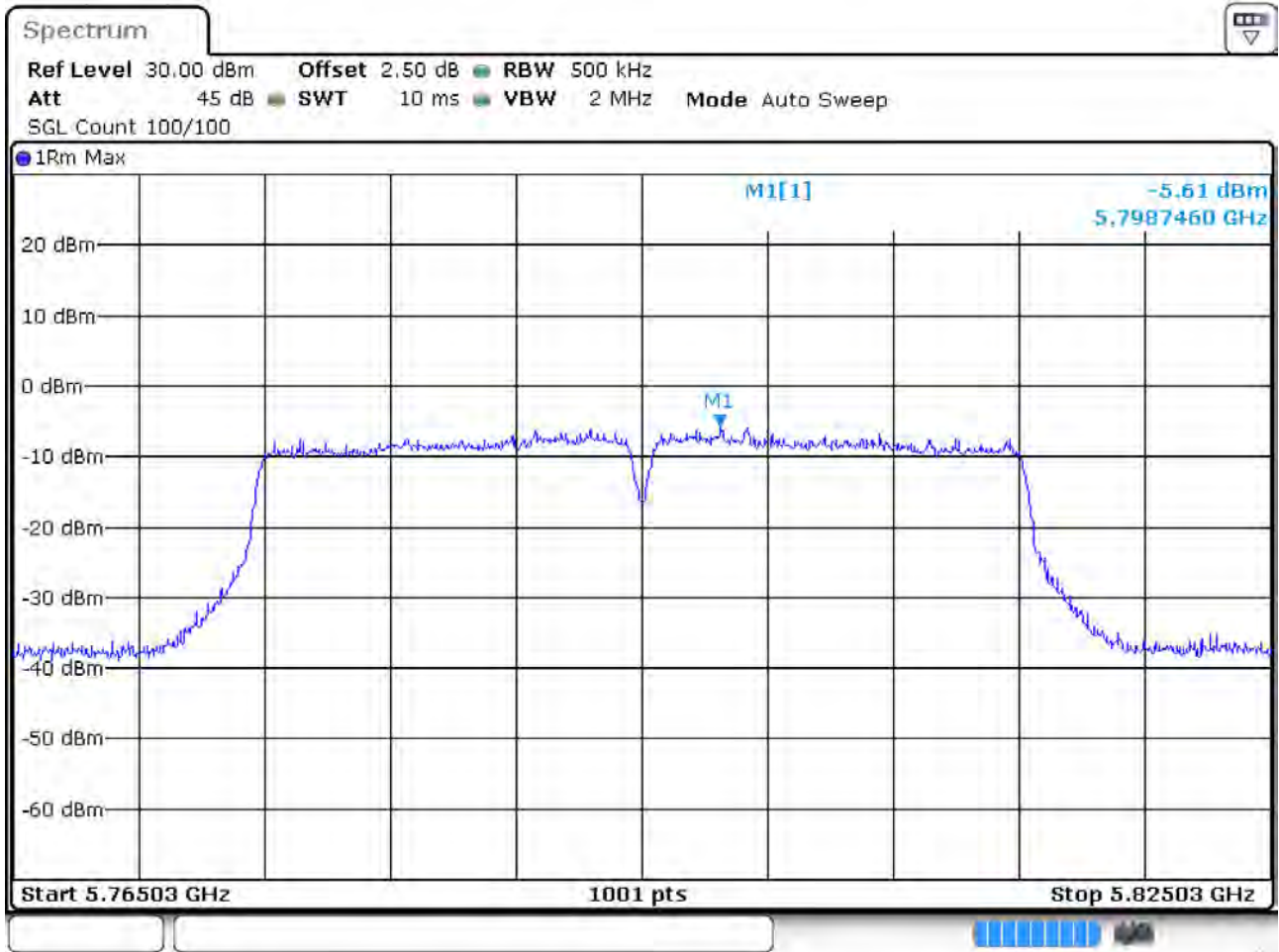
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4.8.2.64 11N40_159 ANT 2

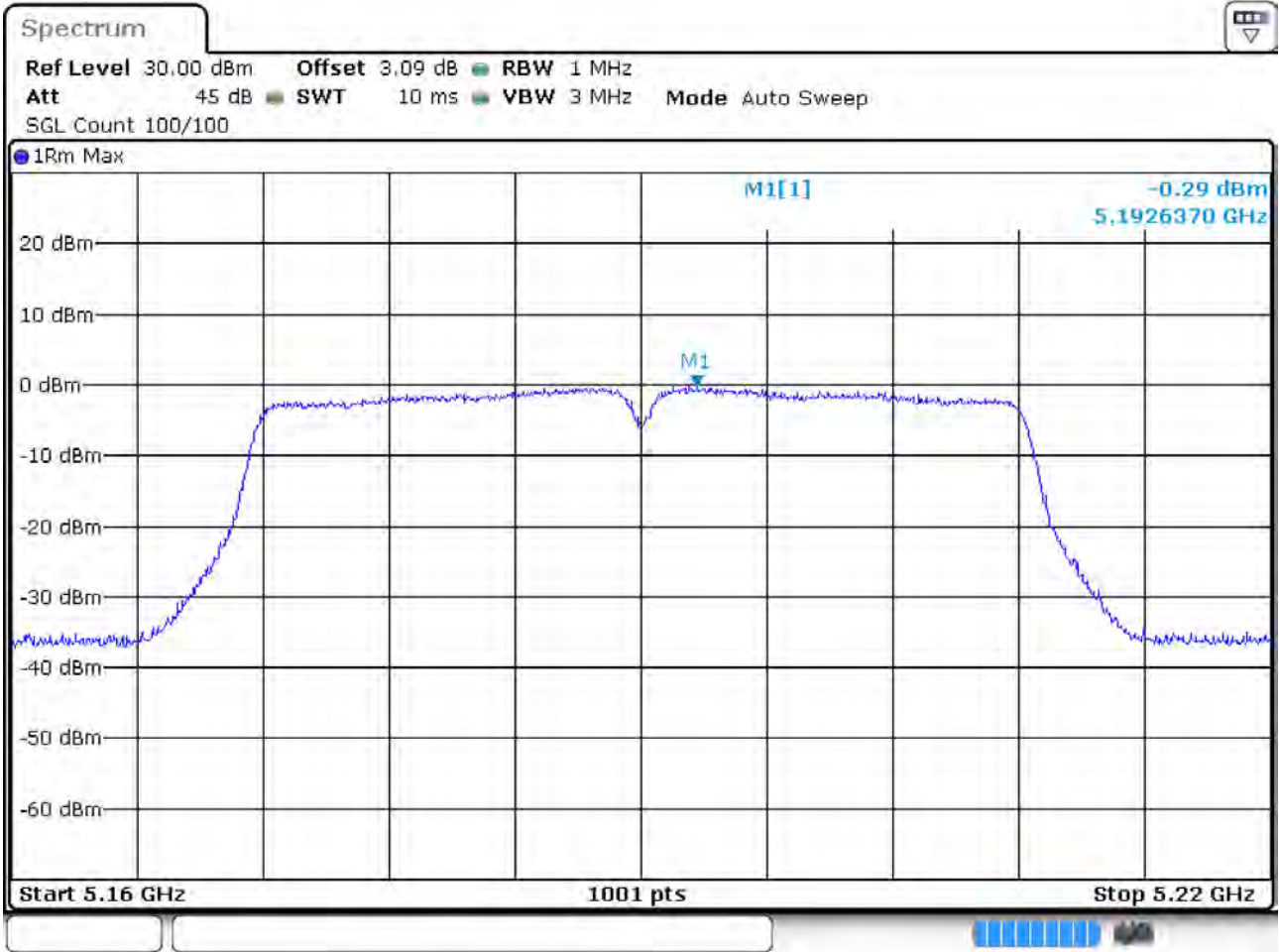


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4.8.2.65 11N40MIMO_38 ANT 1



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