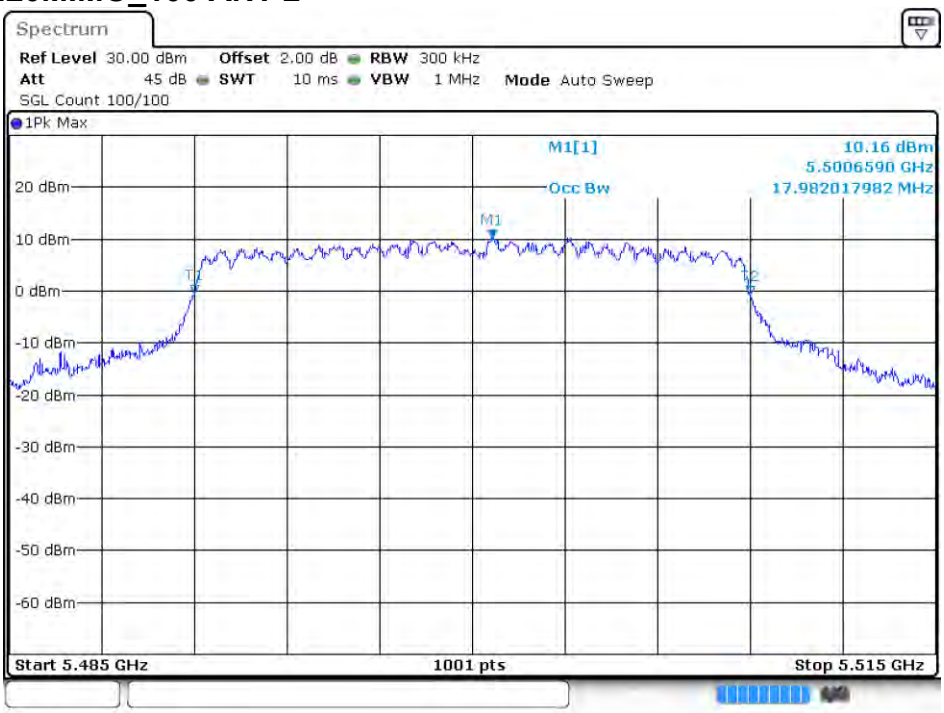
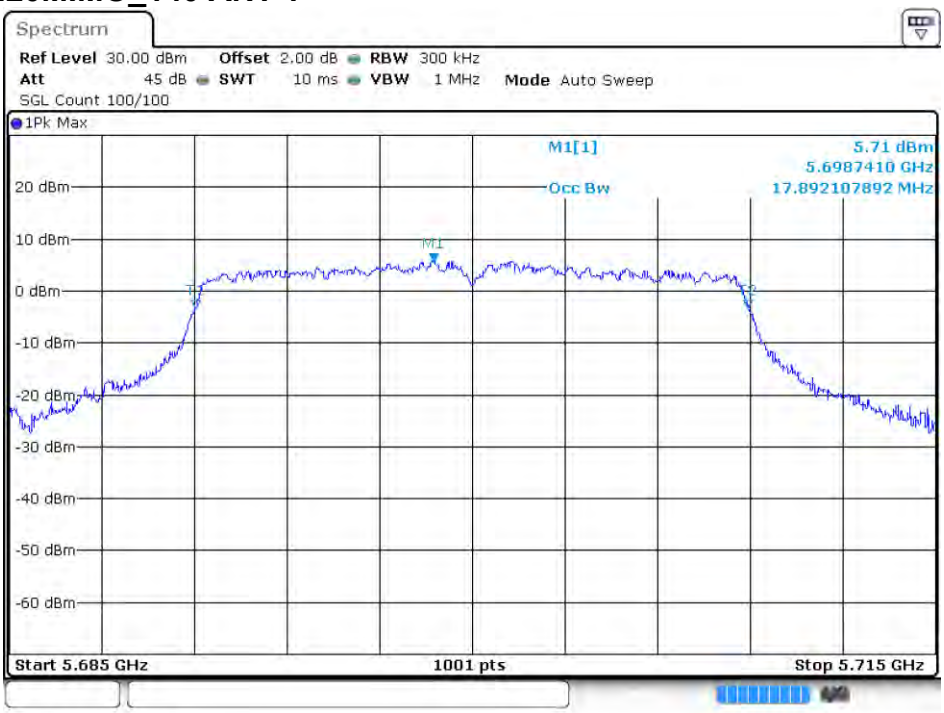
4.7.2.58 11N20MIMO_100 ANT 2



Date: 1.JAN.2020 08:42:20

4.7.2.59 11N20MIMO_140 ANT 1



Date: 1.JAN.2020 07:31:48

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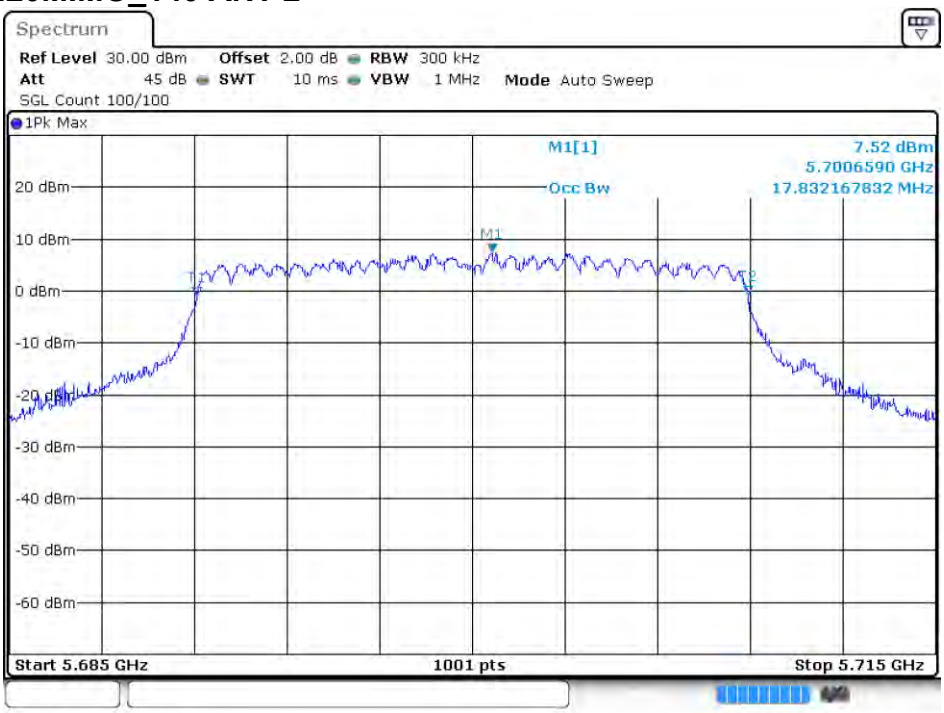
4.7.2.60 11N20MIMO_140 ANT 2



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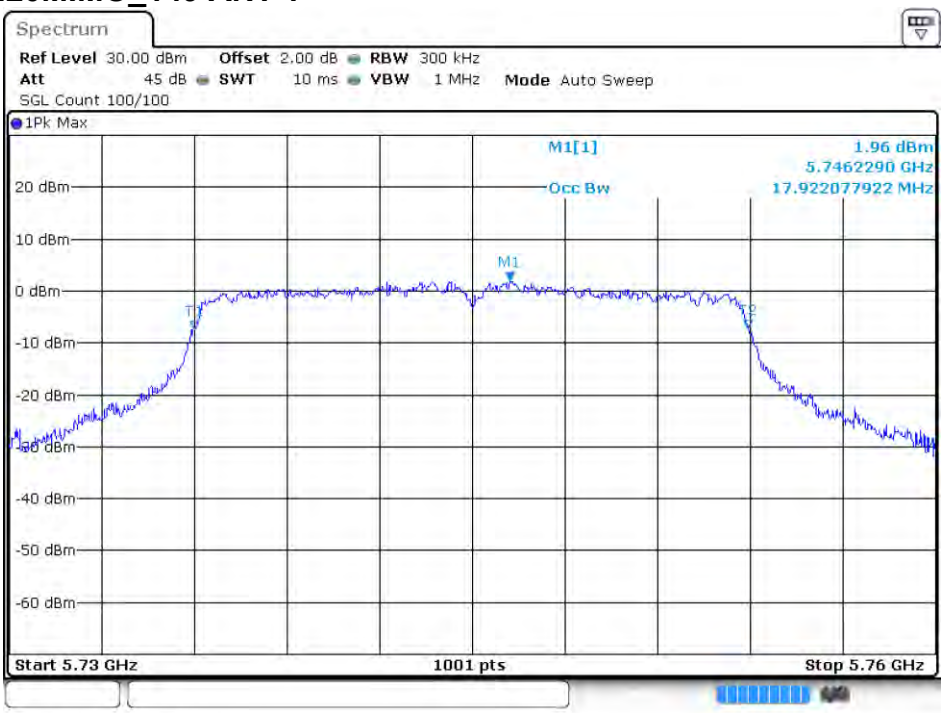
4.7.2.61 11N20MIMO_149 ANT 1



Date: 1.JAN.2020 07:35:06

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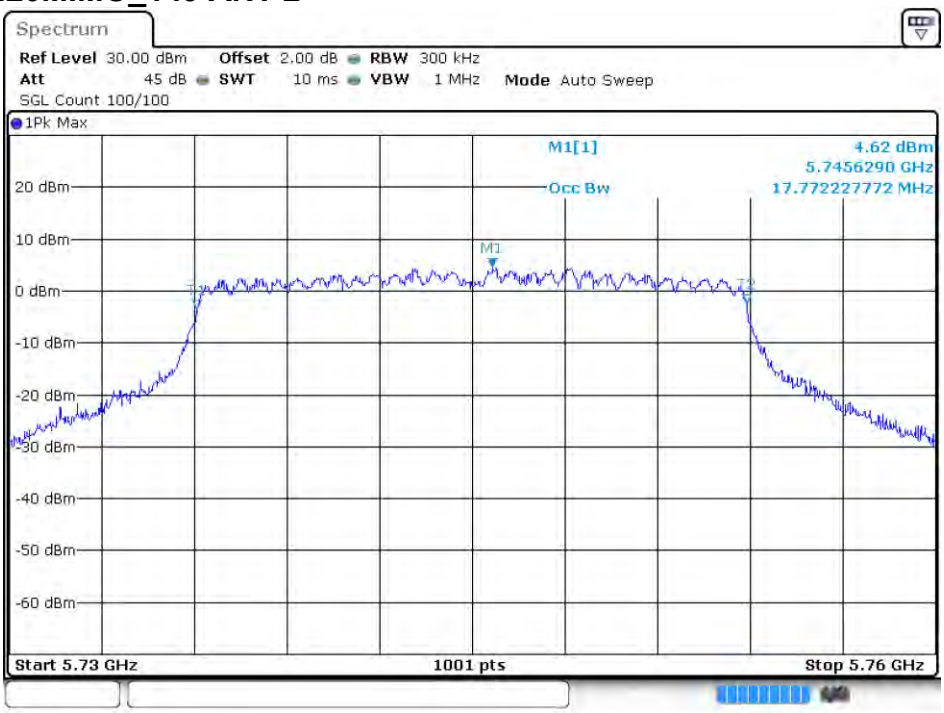
4.7.2.62 11N20MIMO_149 ANT 2



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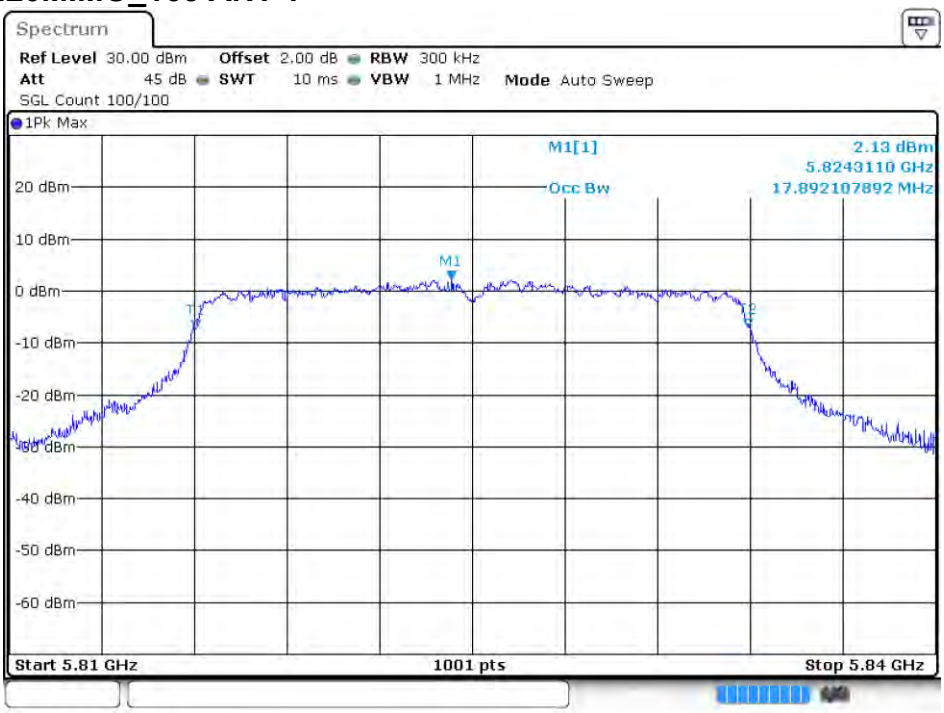
4.7.2.63 11N20MIMO_165 ANT 1



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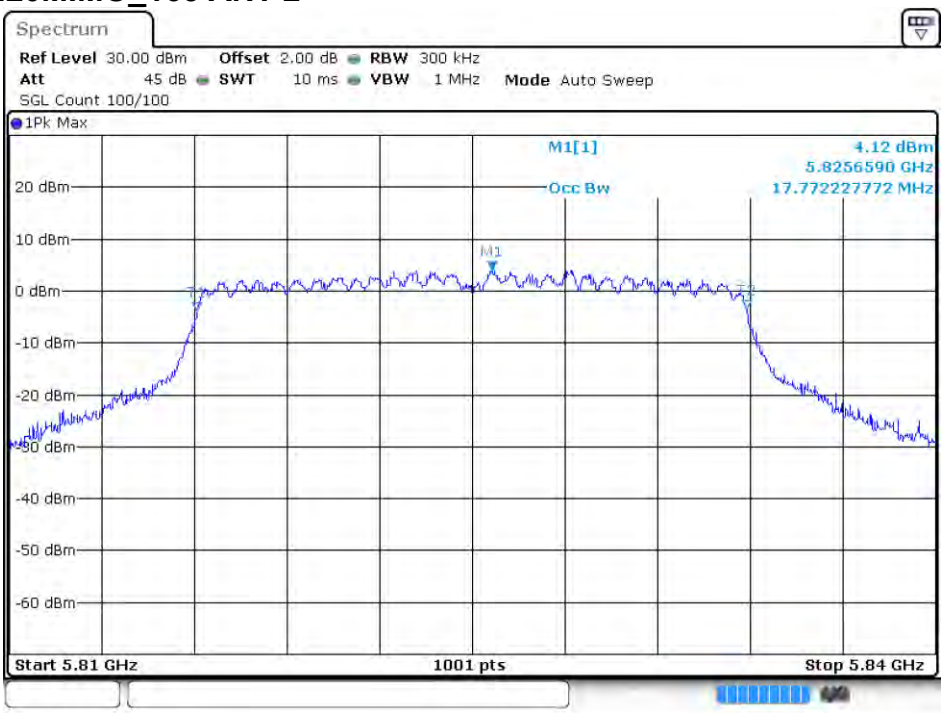
4.7.2.64 11N20MIMO_165 ANT 2



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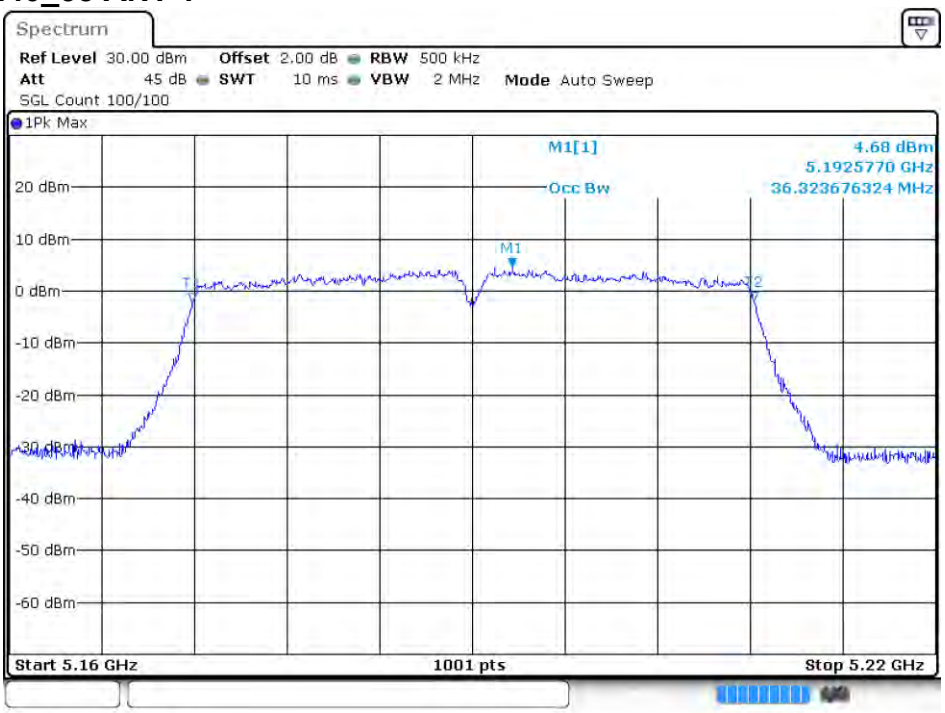
4.7.2.65 11N40_38 ANT 1



Date: 1.JAN.2020 04:59:44

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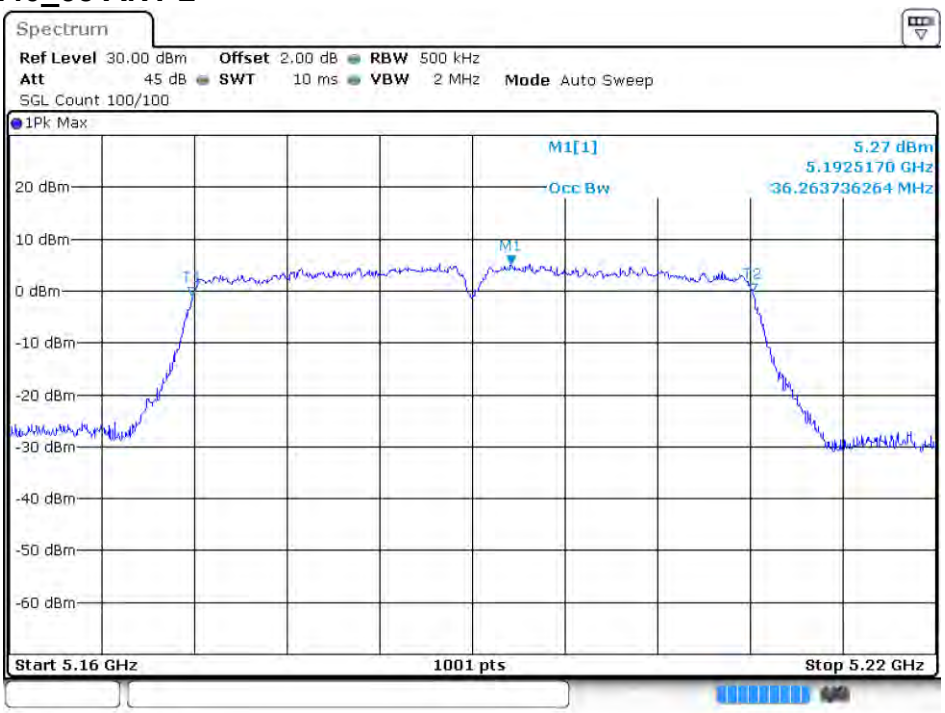
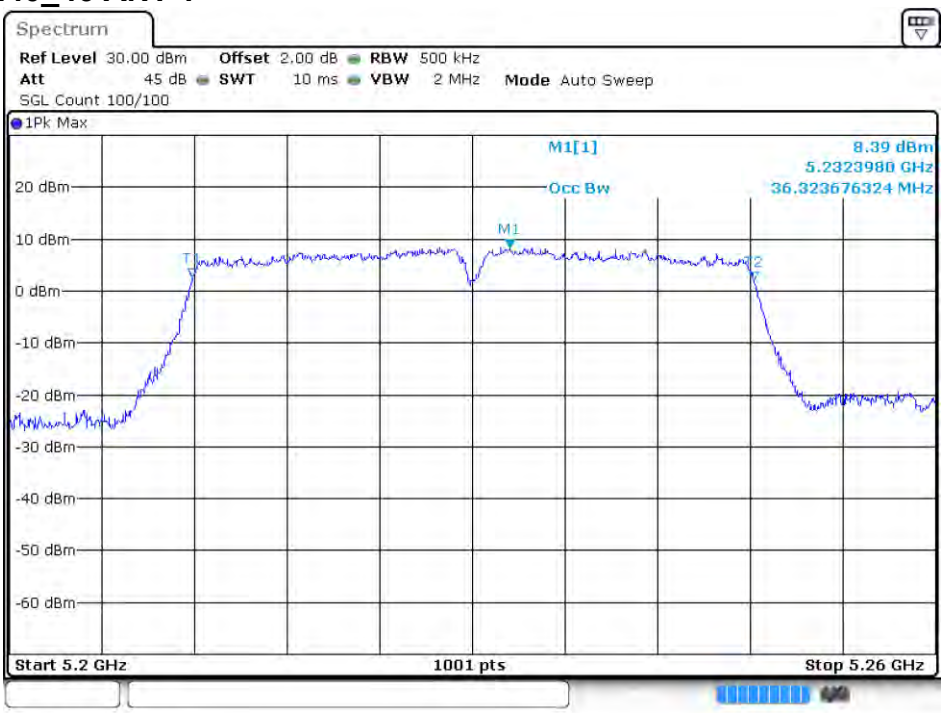
4.7.2.66 11N40_38 ANT 2



Date: 1.JAN.2020 06:00:05

4.7.2.67 11N40_46 ANT 1



Date: 1.JAN.2020 05:01:00

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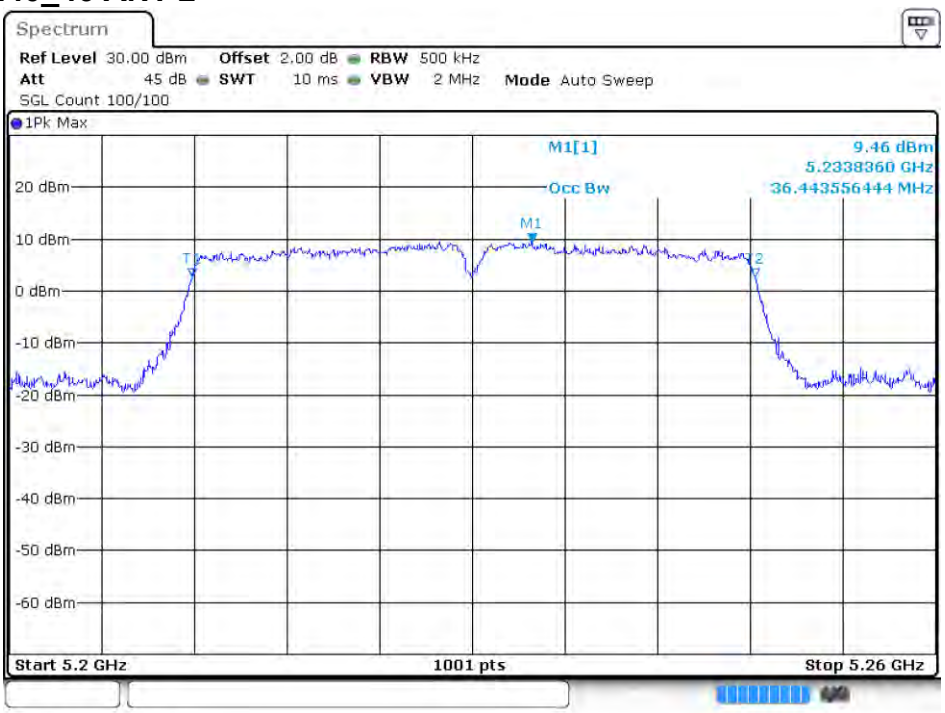
4.7.2.68 11N40_46 ANT 2



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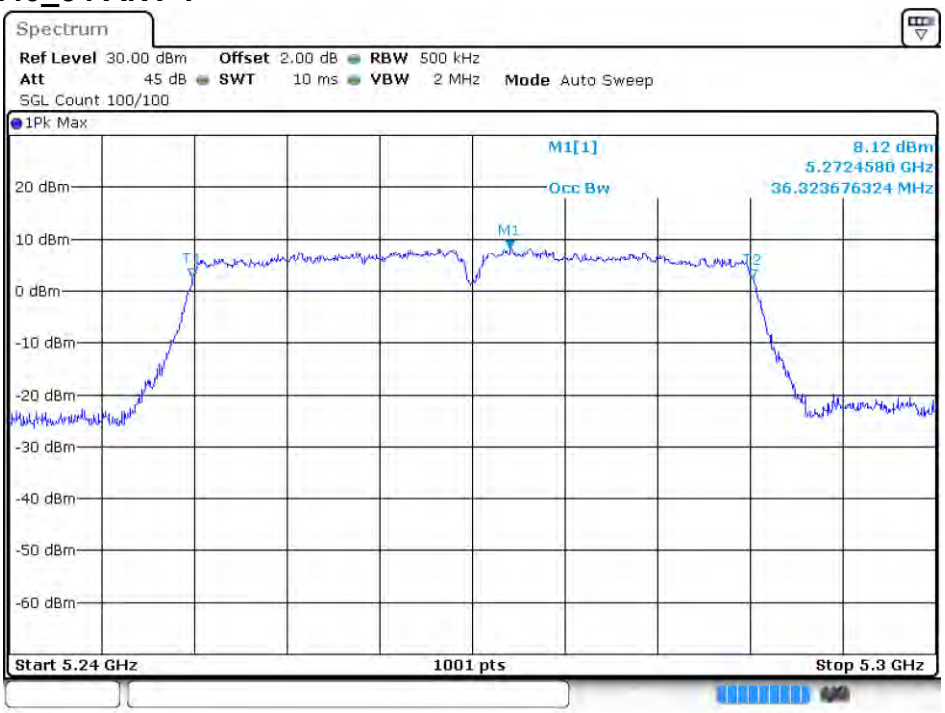
4.7.2.69 11N40_54 ANT 1



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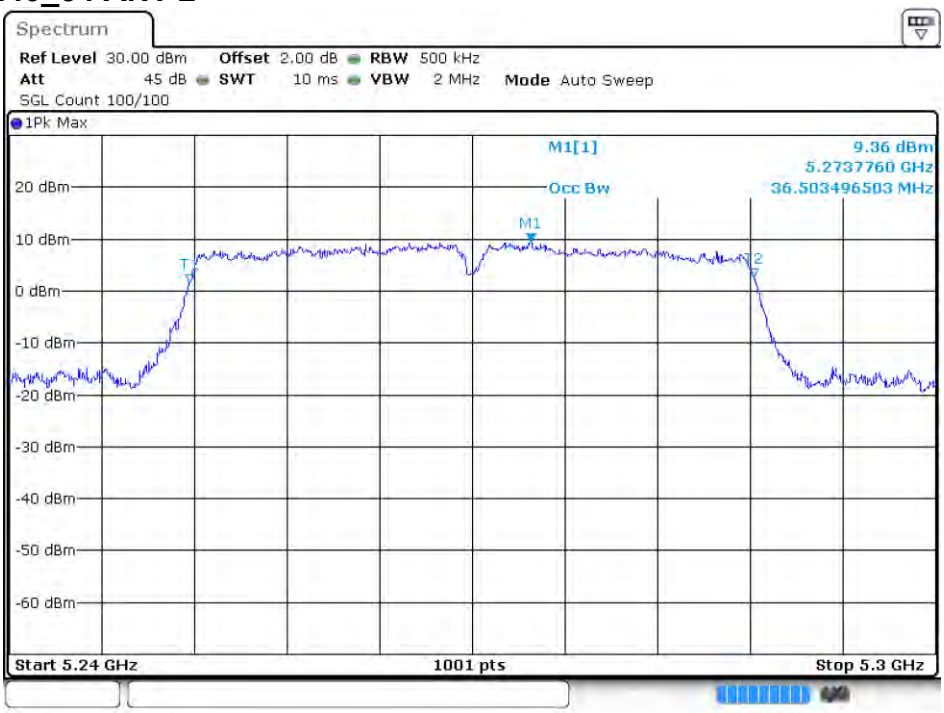
4.7.2.70 11N40_54 ANT 2



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4.7.2.71 11N40_62 ANT 1

Date: 1.JAN.2020 05:03:39

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4.7.2.72 11N40_62 ANT 2

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4.7.2.73 11N40_102 ANT 1

Date: 1.JAN.2020 05:07:43

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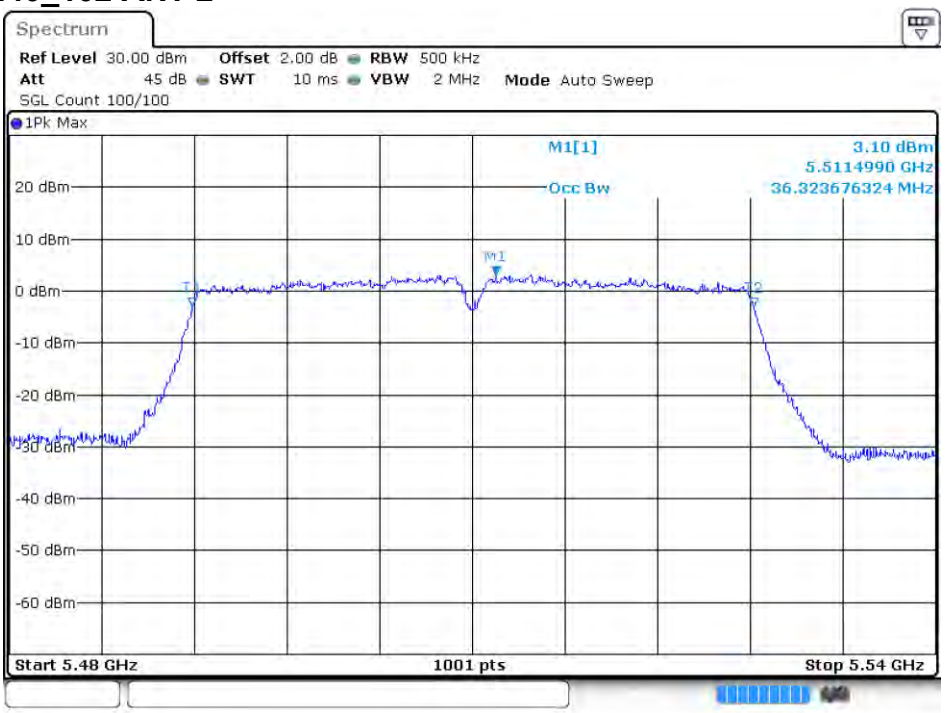
4.7.2.74 11N40_102 ANT 2



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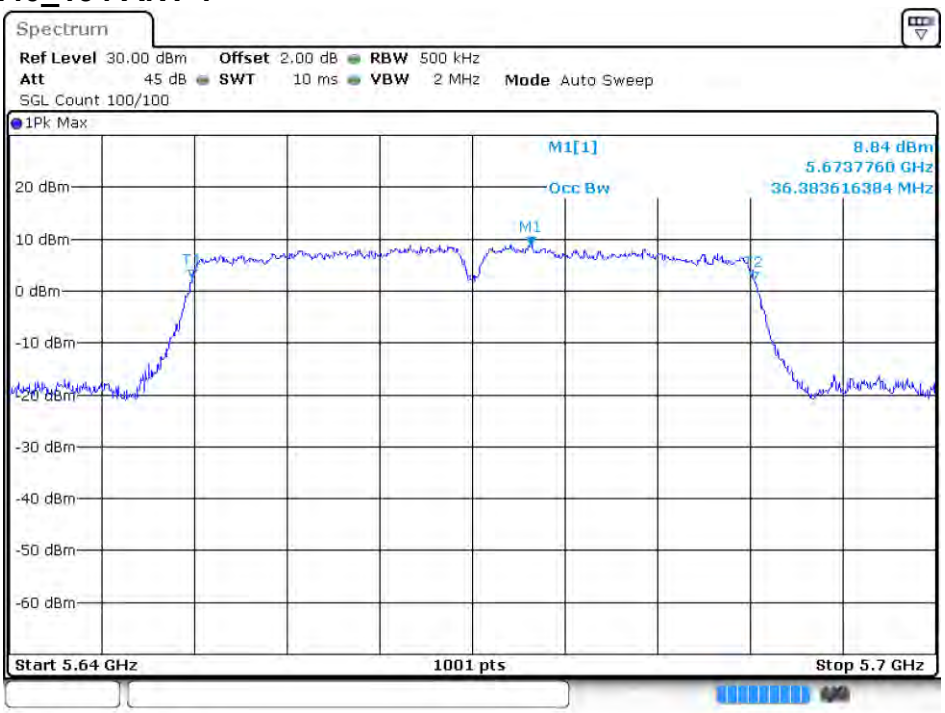
4.7.2.75 11N40_134 ANT 1



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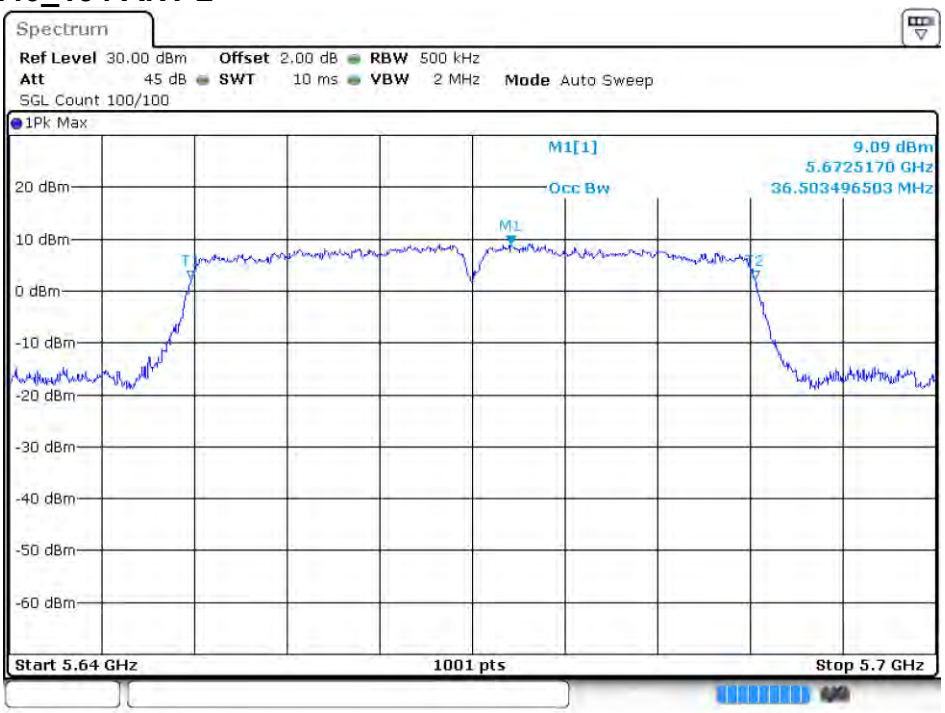
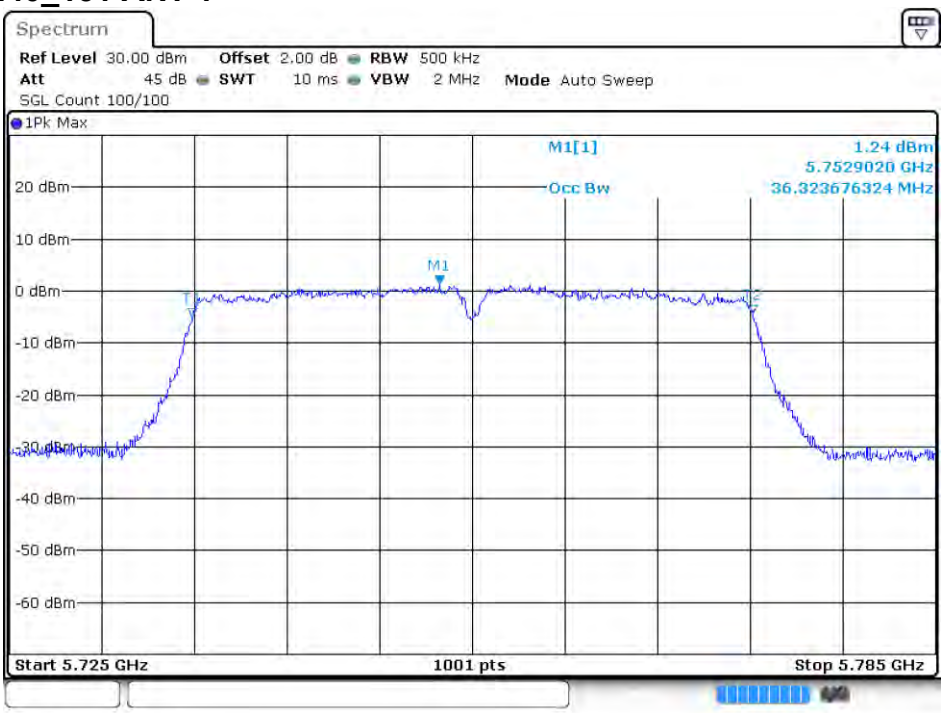
4.7.2.76 11N40_134 ANT 2



Date: 1.JAN.2020 06:08:49

4.7.2.77 11N40_151 ANT 1



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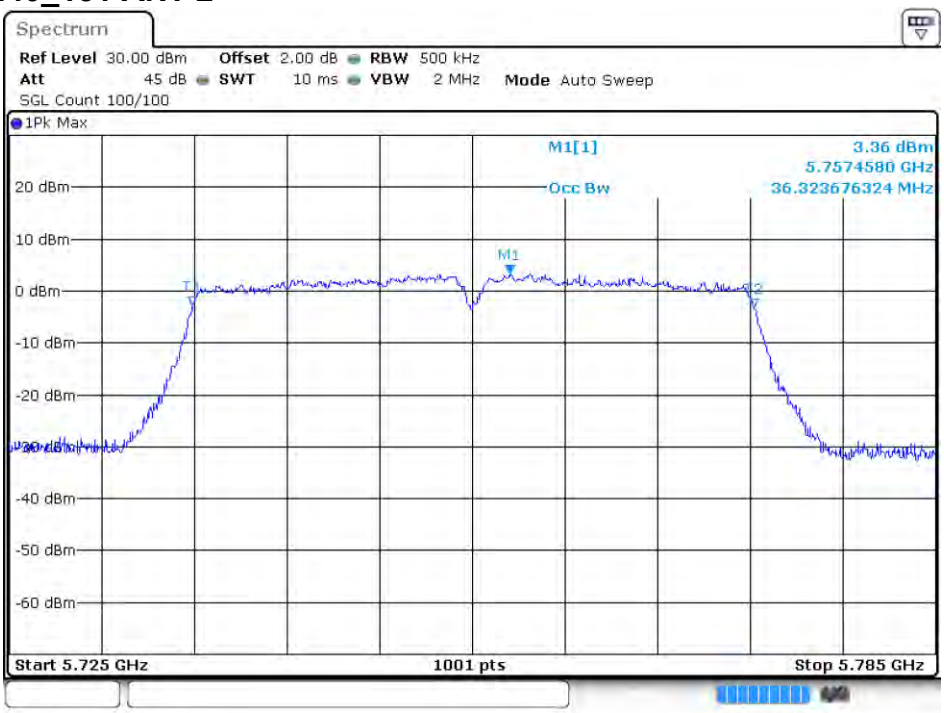
4.7.2.78 11N40_151 ANT 2



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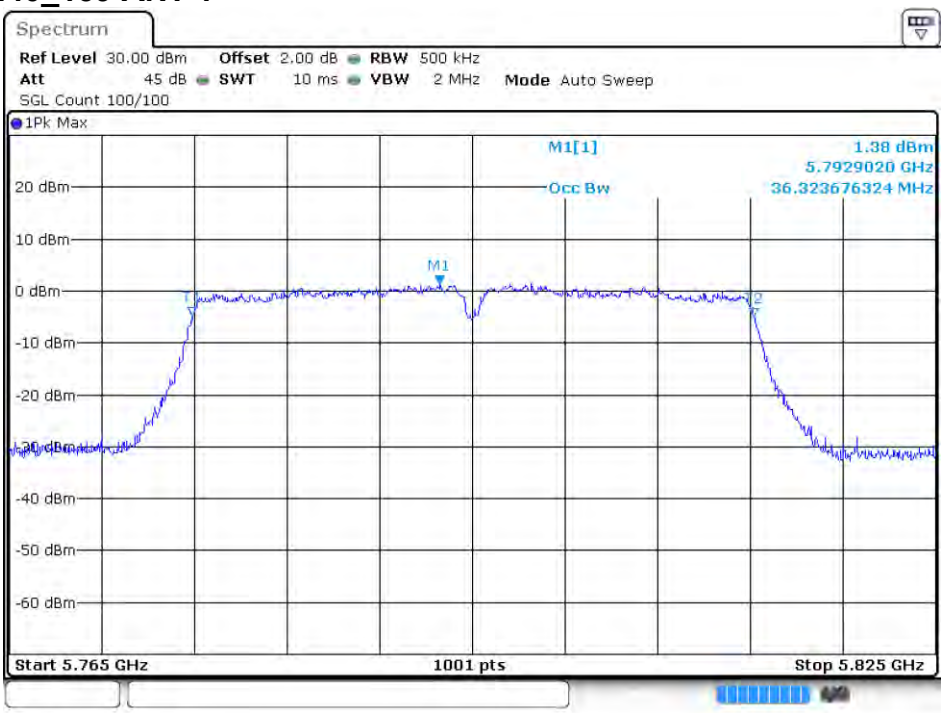

Date: 1.JAN.2020 06:47:55

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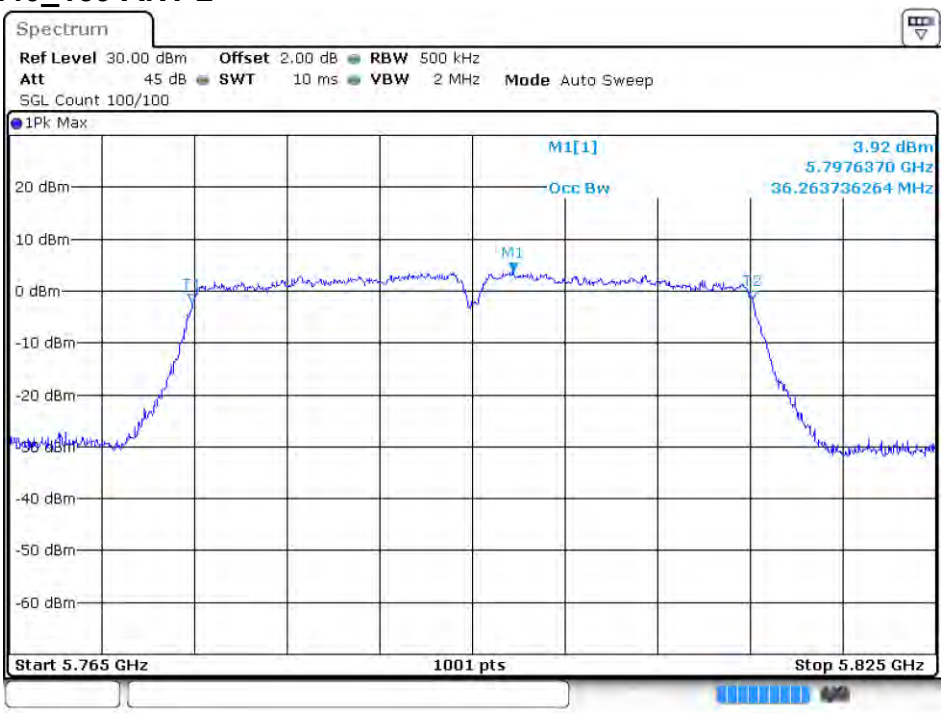
4.7.2.80 11N40_159 ANT 2



Date: 1.JAN.2020 06:11:42

4.7.2.81 11N40MIMO_38 ANT 1

Date: 3.JAN.2020 02:35:00

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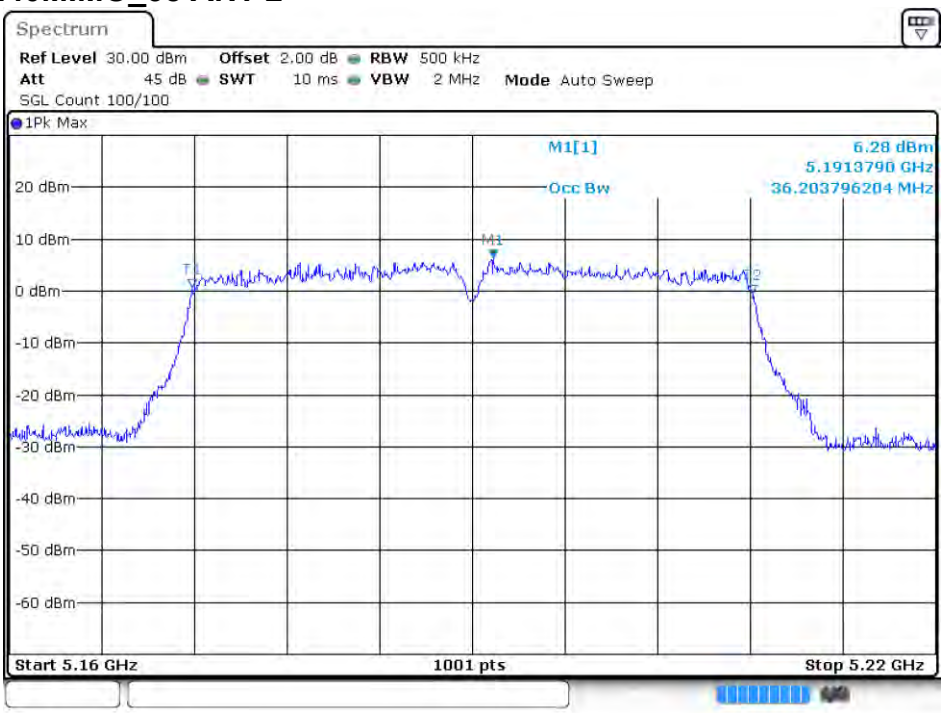
4.7.2.82 11N40MIMO_38 ANT 2



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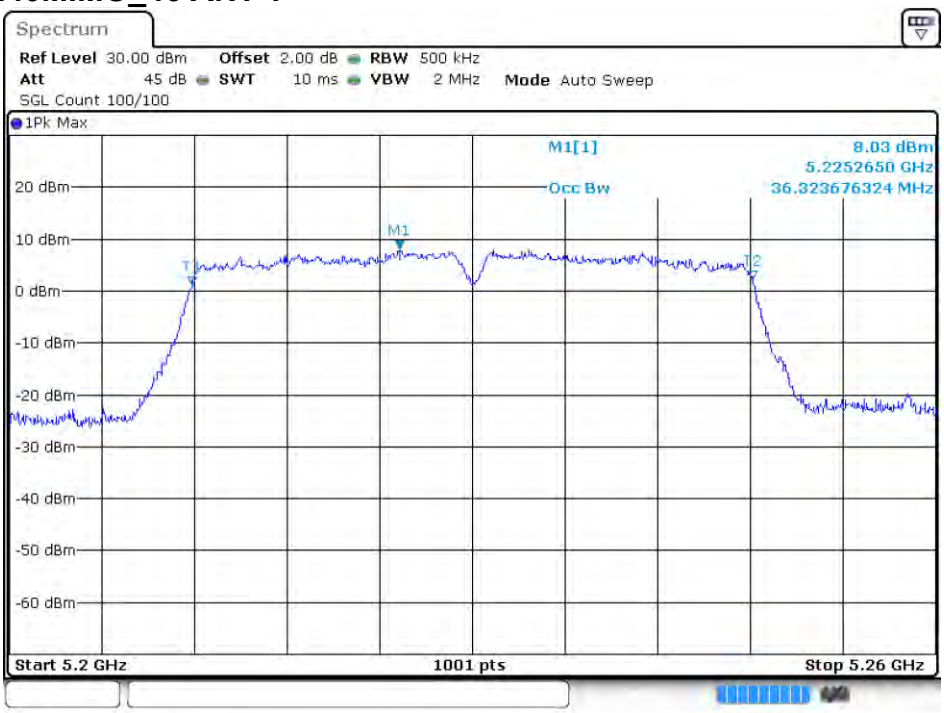
4.7.2.83 11N40MIMO_46 ANT 1



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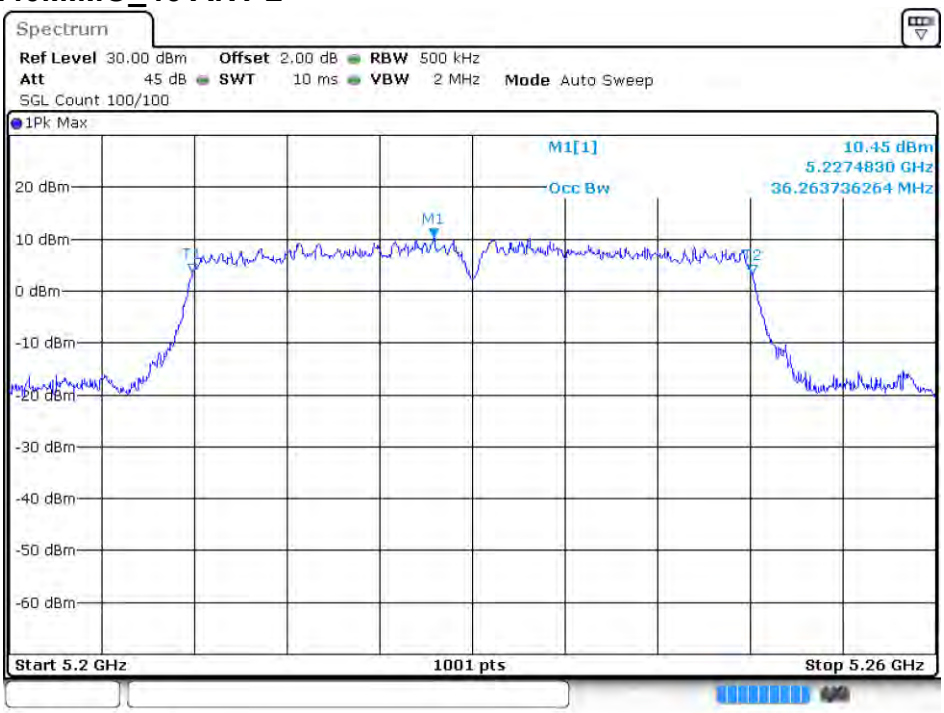
4.7.2.84 11N40MIMO_46 ANT 2



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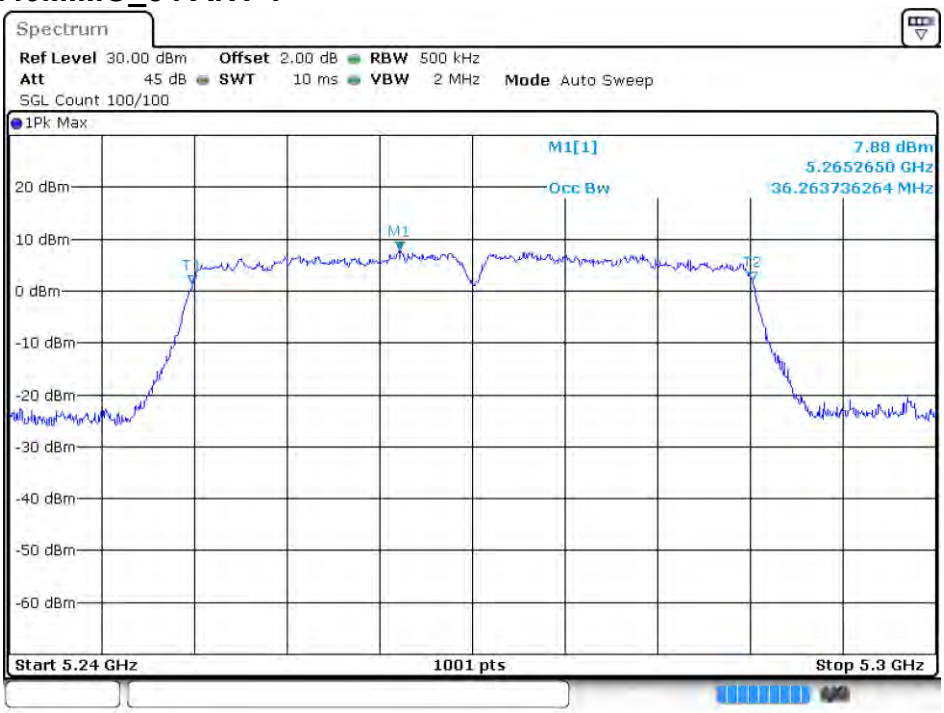
4.7.2.85 11N40MIMO_54 ANT 1



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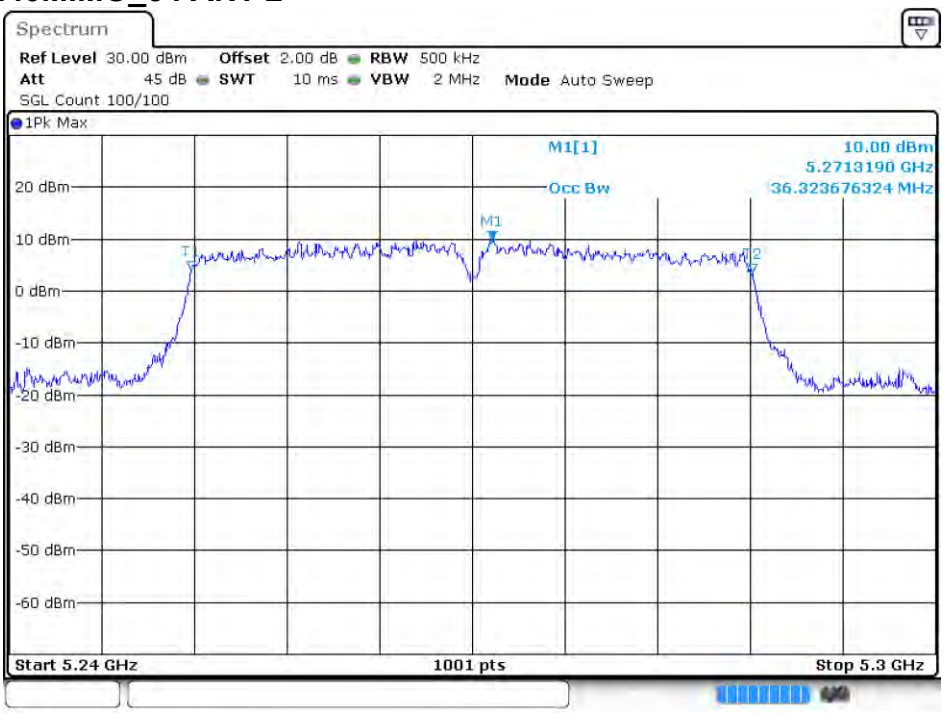
4.7.2.86 11N40MIMO_54 ANT 2



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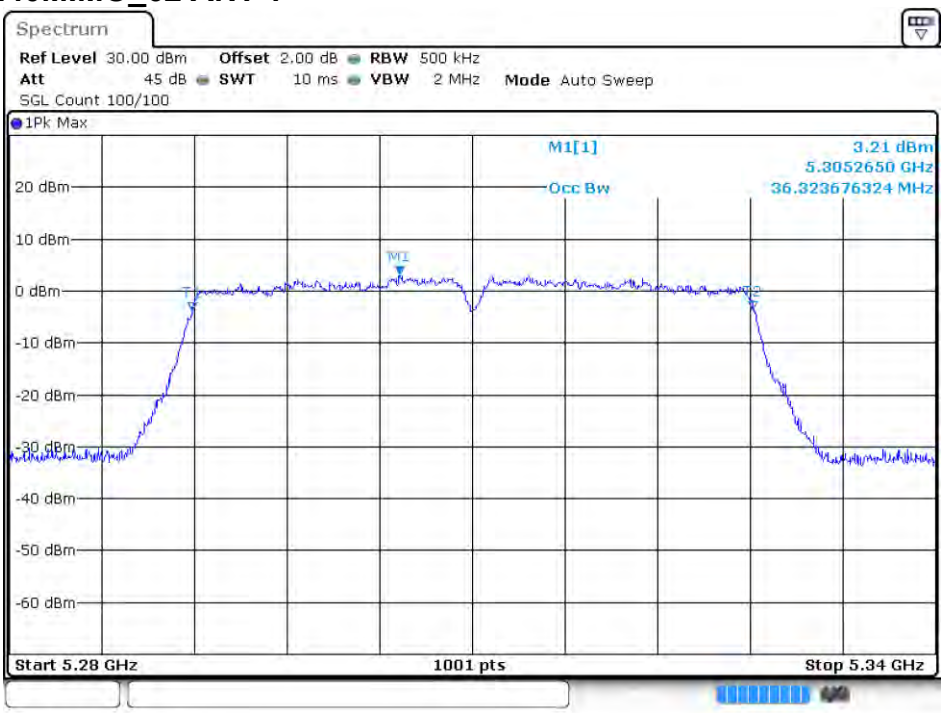
4.7.2.87 11N40MIMO_62 ANT 1



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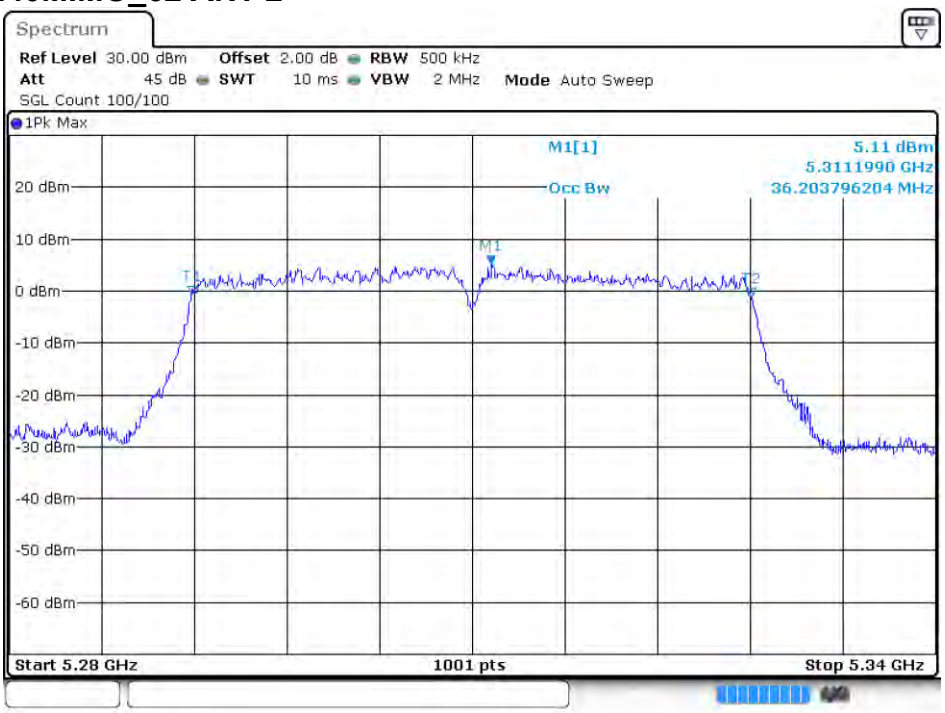
4.7.2.88 11N40MIMO_62 ANT 2



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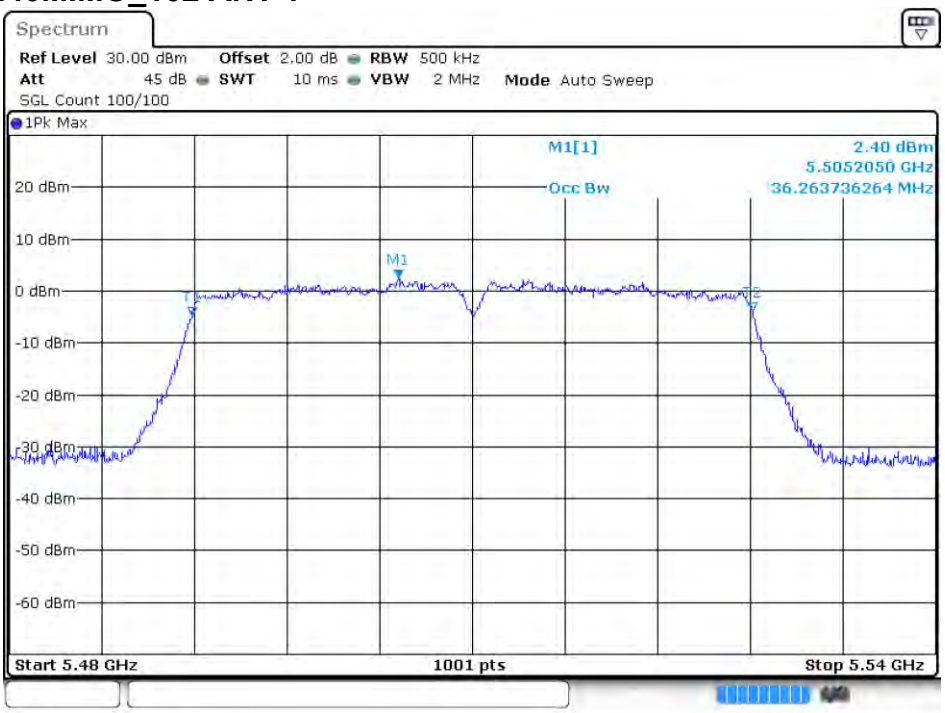
4.7.2.89 11N40MIMO_102 ANT 1



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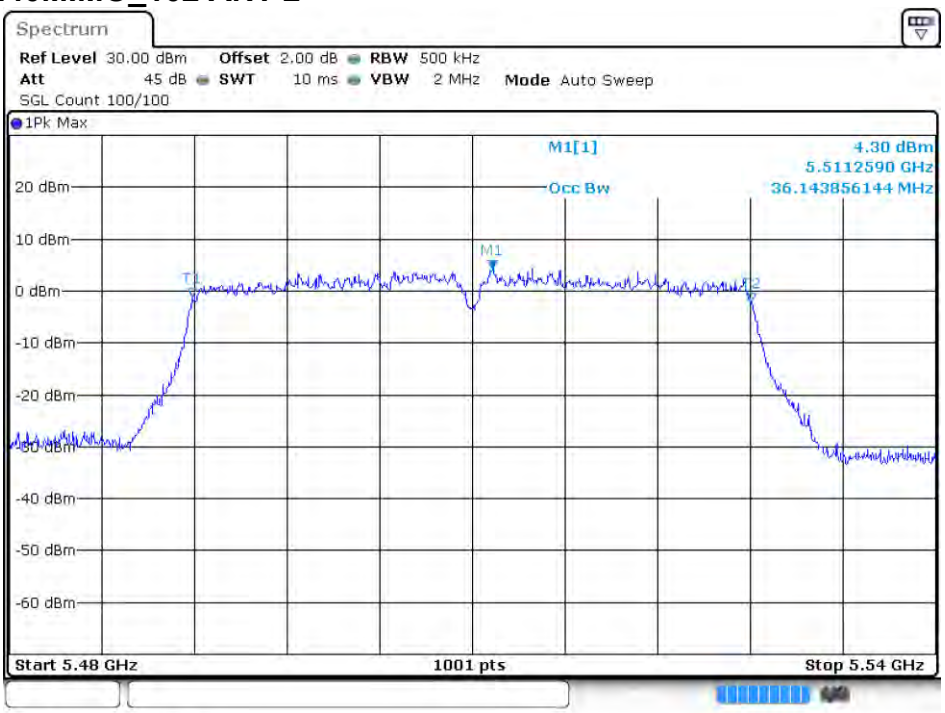
4.7.2.90 11N40MIMO_102 ANT 2



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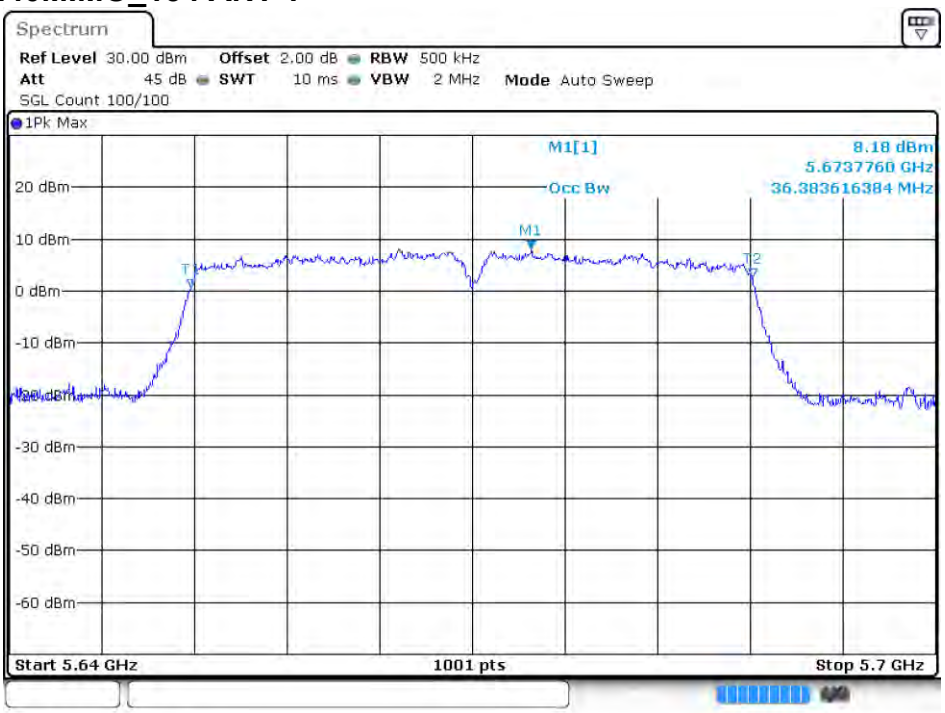
4.7.2.91 11N40MIMO_134 ANT 1



Date: 3.JAN.2020 02:43:14

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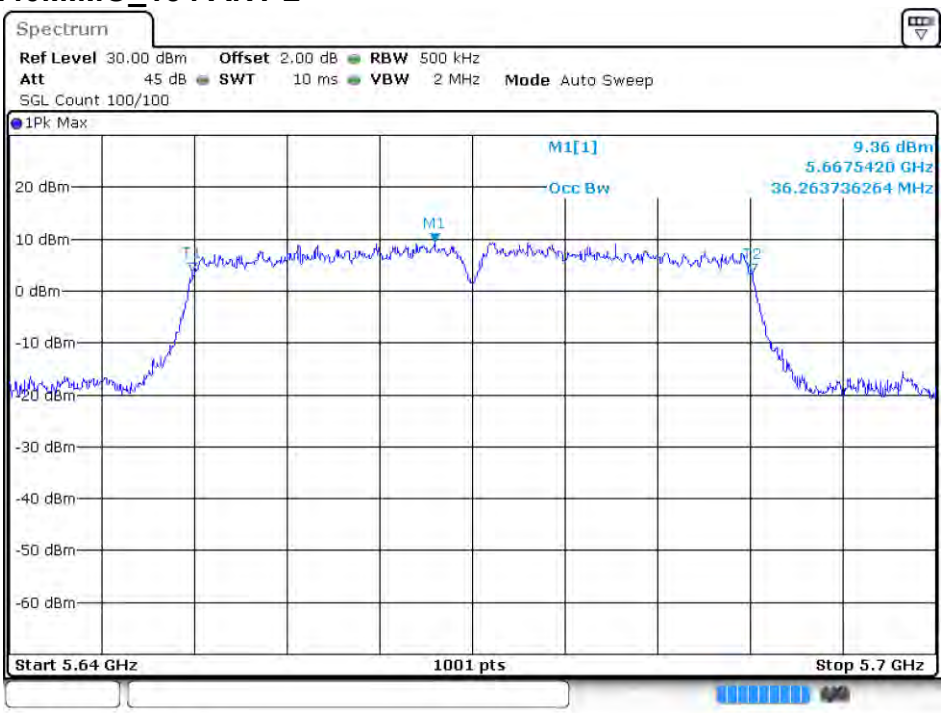
4.7.2.92 11N40MIMO_134 ANT 2



Date: 3.JAN.2020 01:38:12

4.7.2.93 11N40MIMO_151 ANT 1

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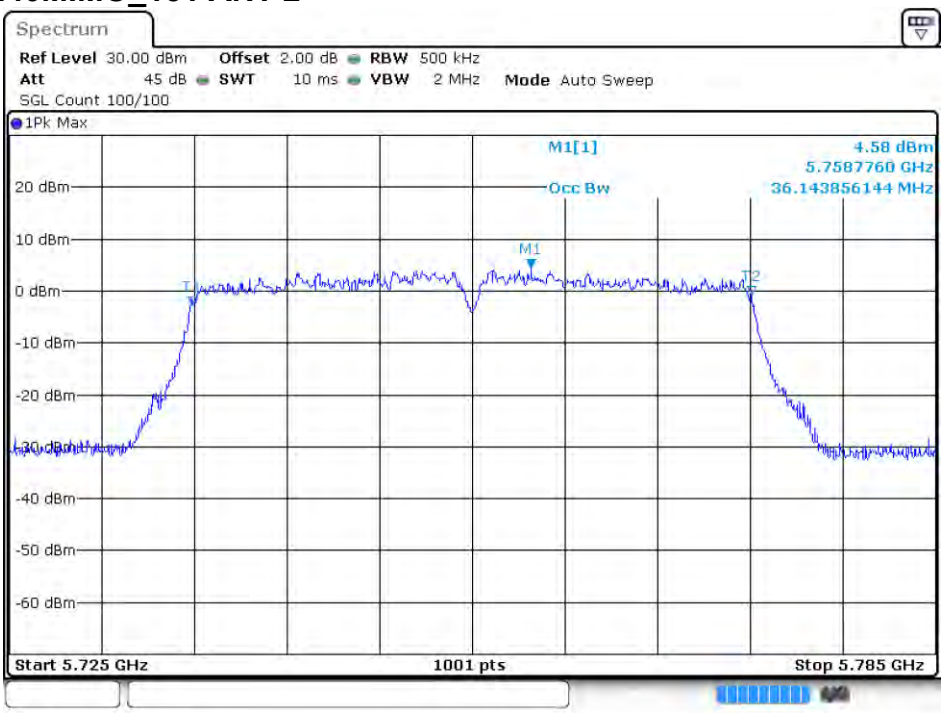
4.7.2.94 11N40MIMO_151 ANT 2



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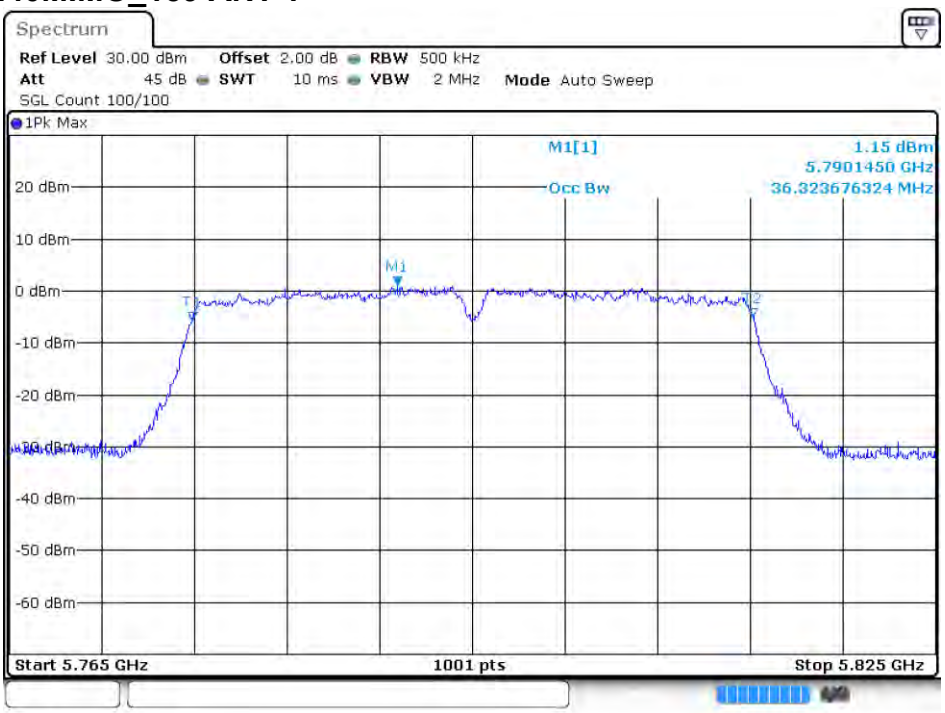
4.7.2.95 11N40MIMO_159 ANT 1



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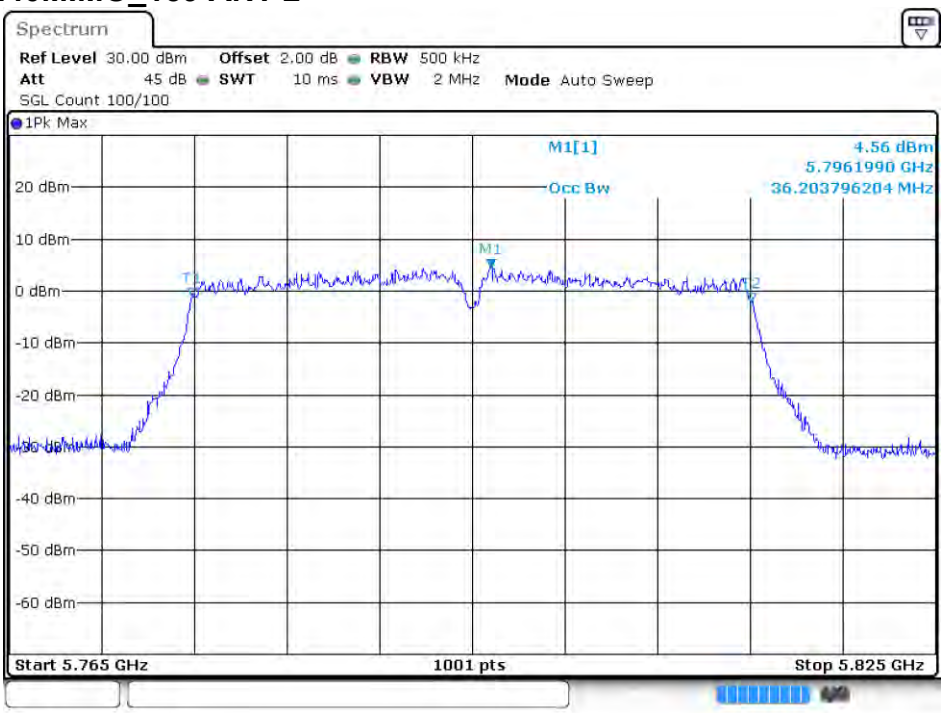
4.7.2.96 11N40MIMO_159 ANT 2



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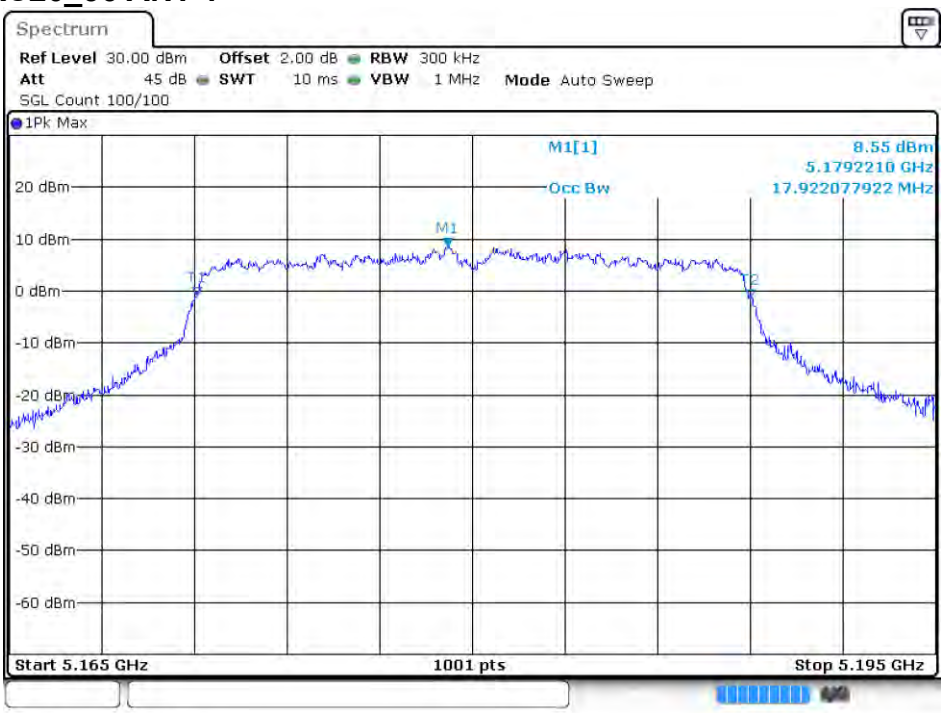
4.7.2.97 11AC20_36 ANT 1



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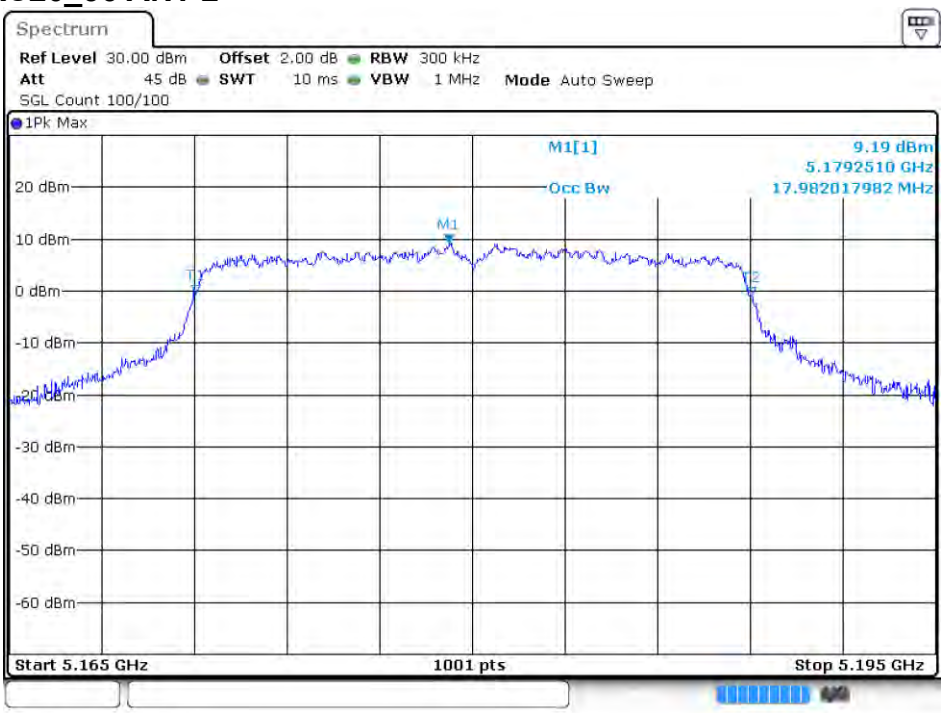
4.7.2.98 11AC20_36 ANT 2



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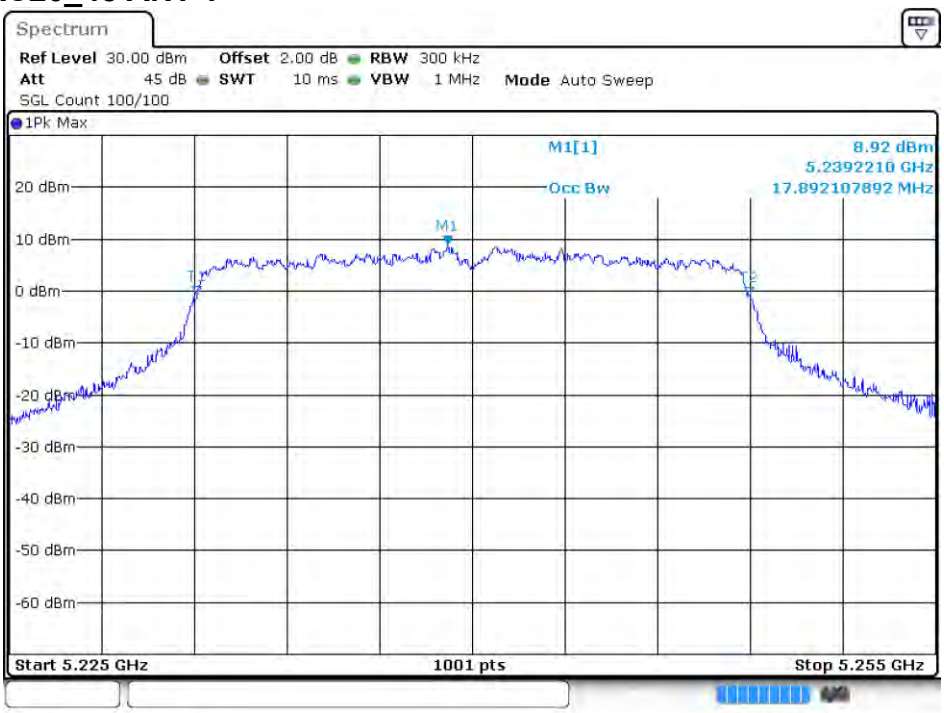

Date: 1.JAN.2020 04:47:21

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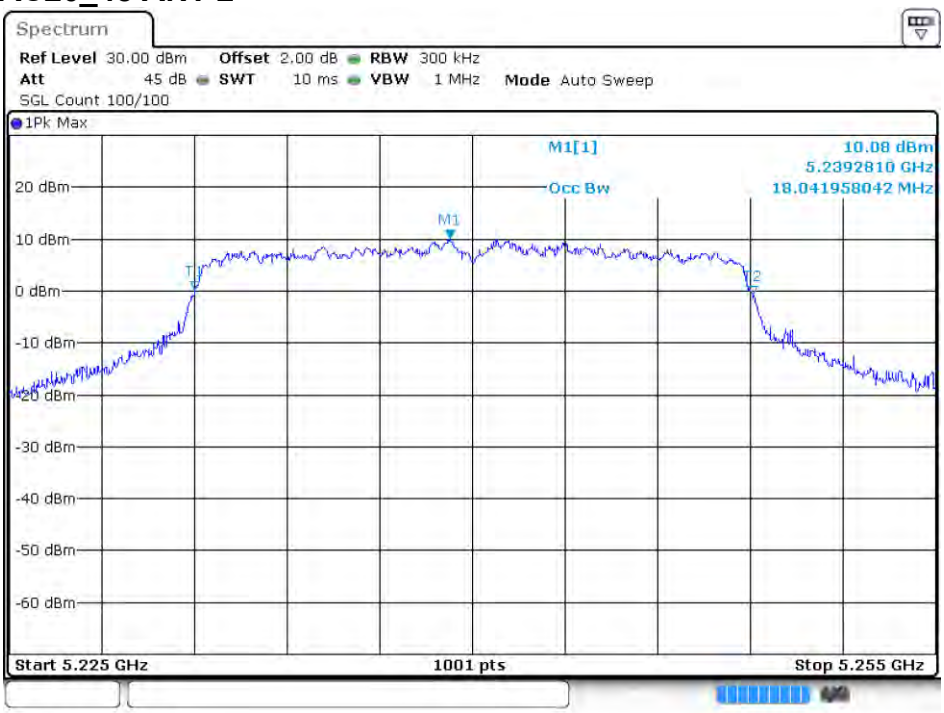
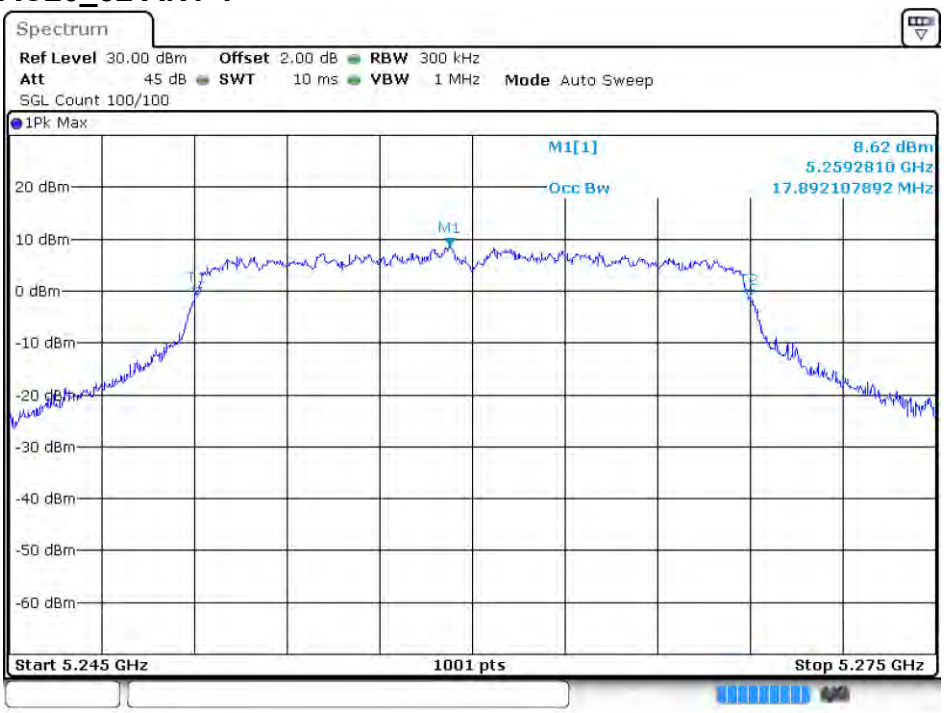
4.7.2.100 11AC20_48 ANT 2



Date: 1.JAN.2020 04:11:43

4.7.2.101 11AC20_52 ANT 1



Date: 1.JAN.2020 04:48:35

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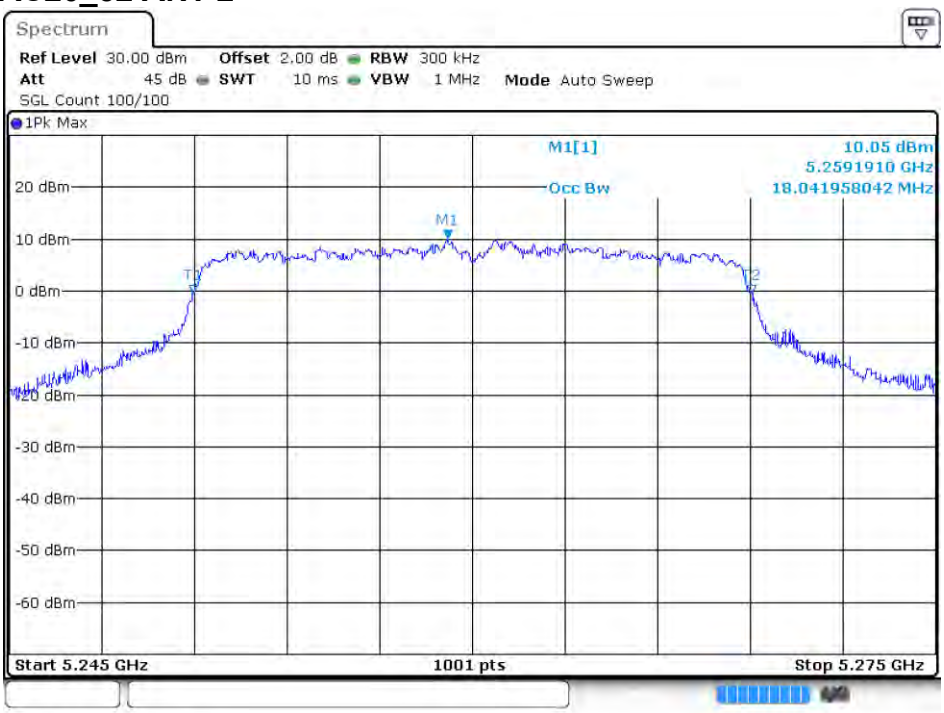
4.7.2.102 11AC20_52 ANT 2



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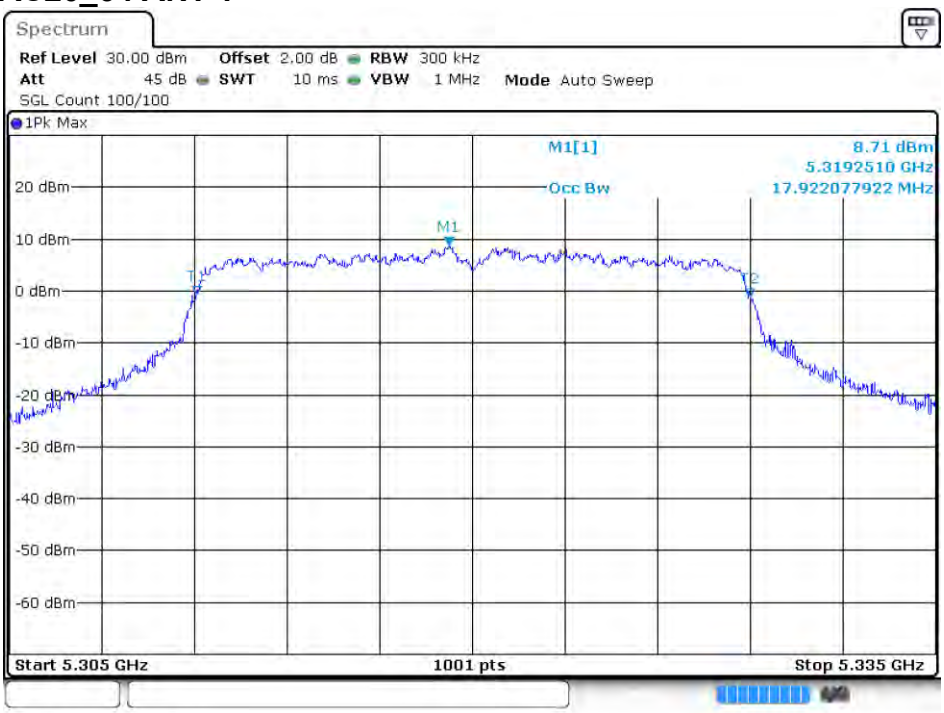
4.7.2.103 11AC20_64 ANT 1



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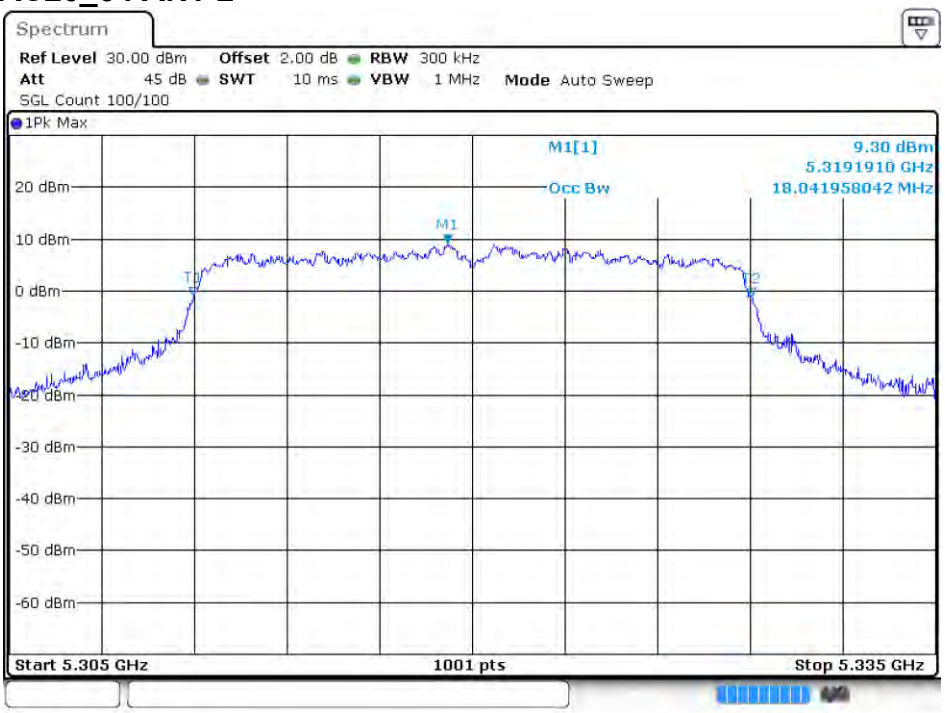
4.7.2.104 11AC20_64 ANT 2



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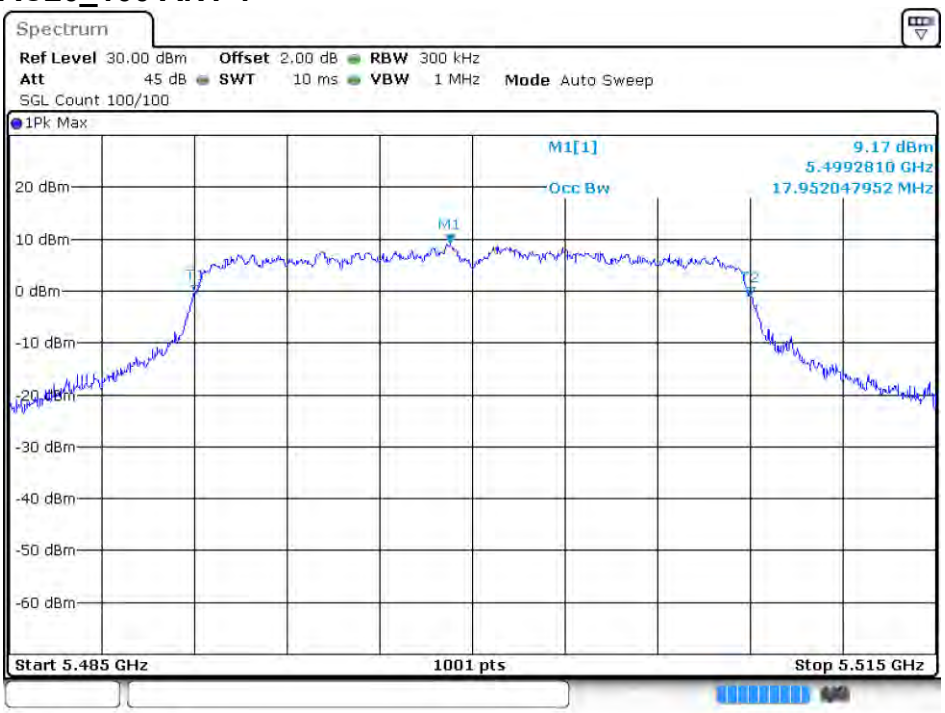

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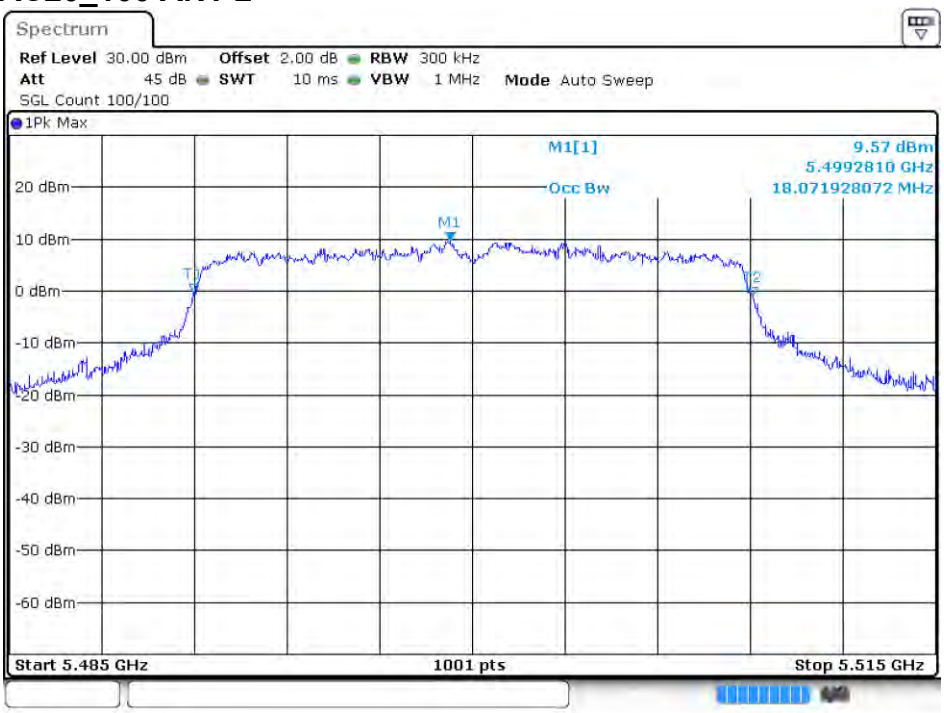
4.7.2.106 11AC20_100 ANT 2



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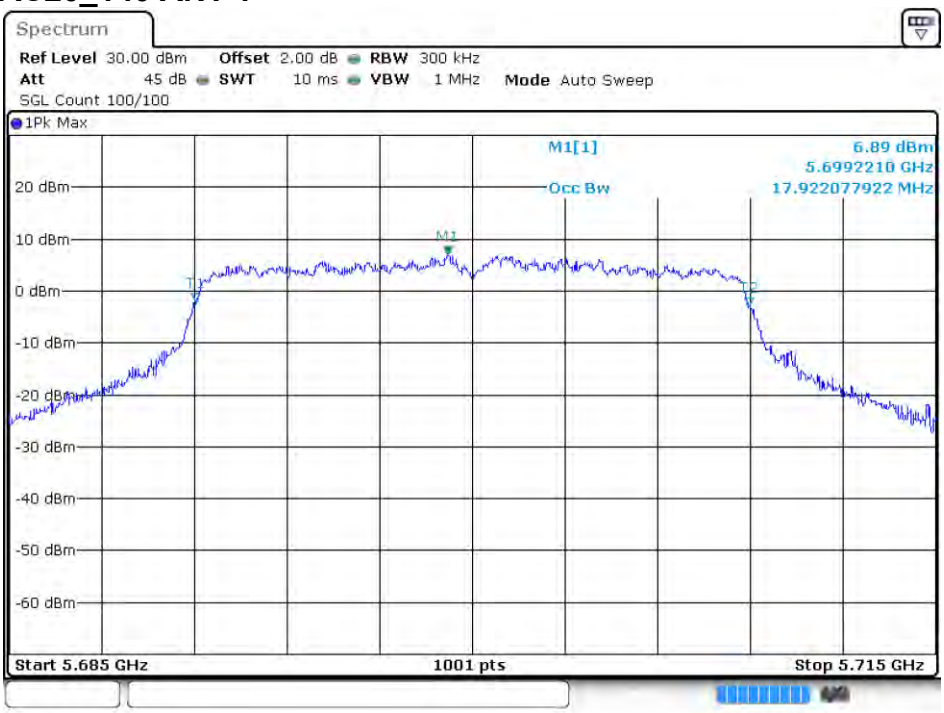

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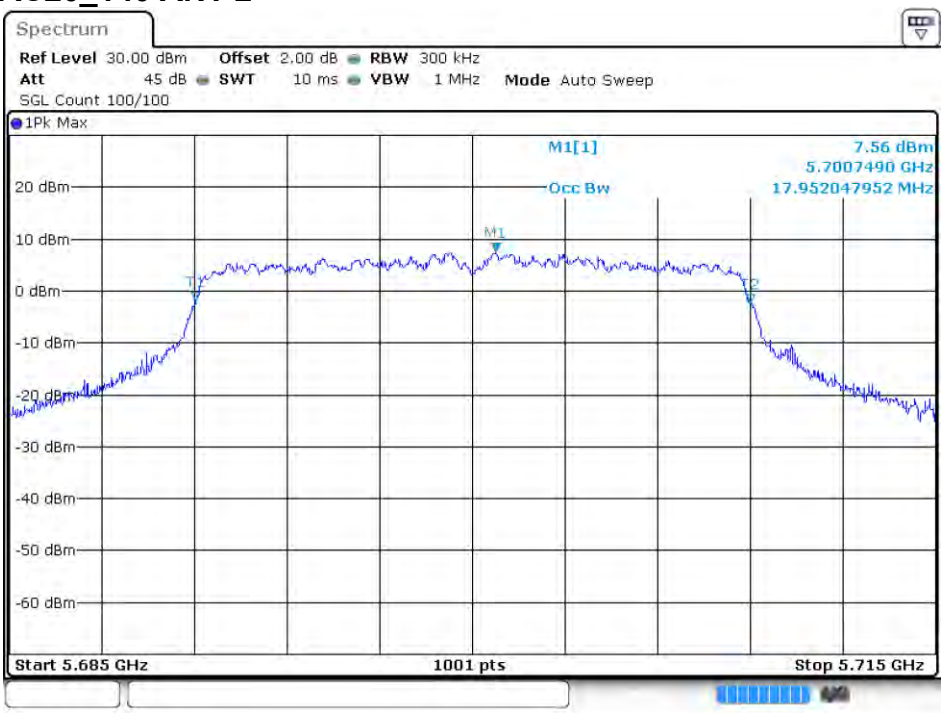
4.7.2.108 11AC20_140 ANT 2



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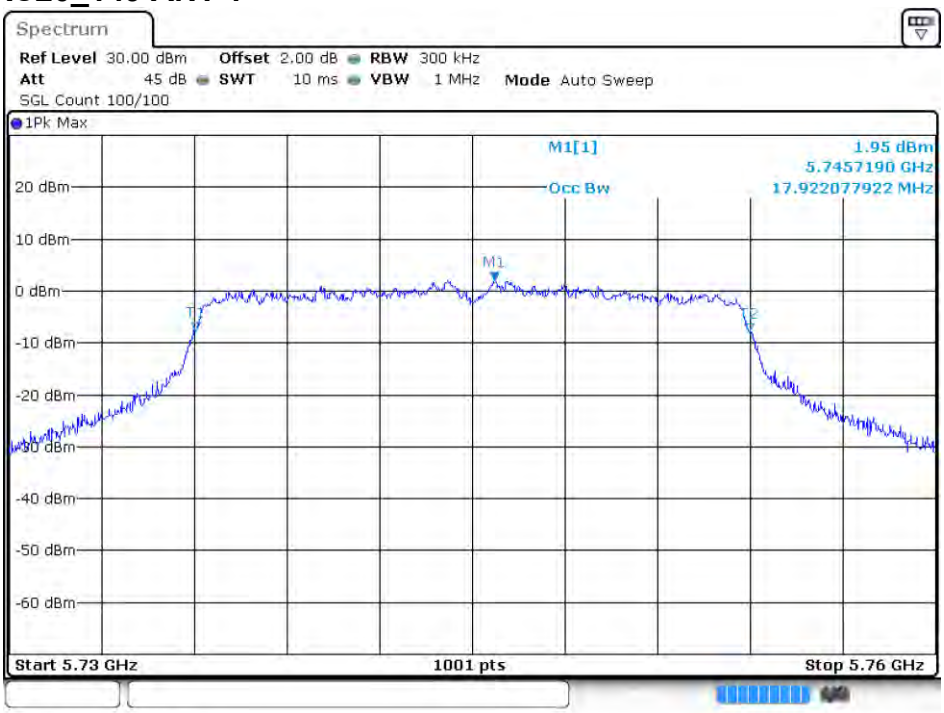
4.7.2.109 11AC20_149 ANT 1



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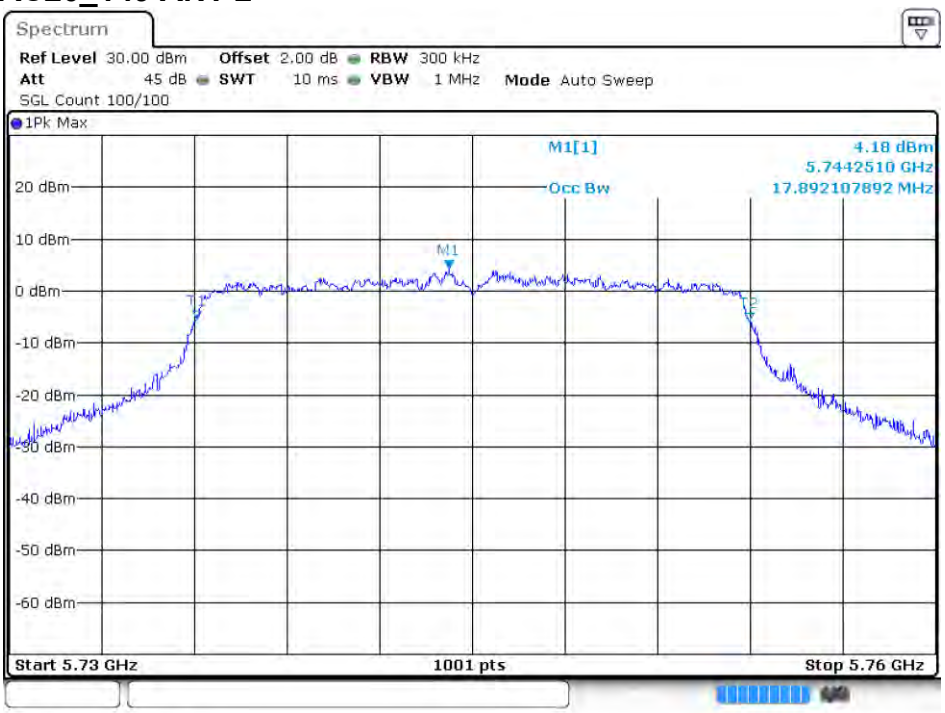
4.7.2.110 11AC20_149 ANT 2



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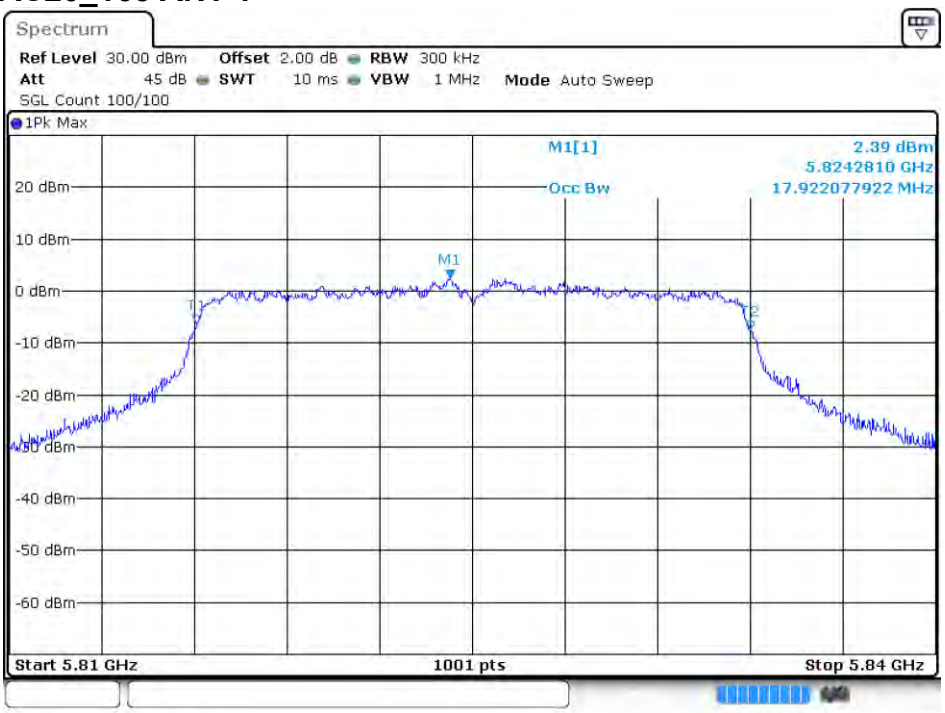
4.7.2.111 11AC20_165 ANT 1



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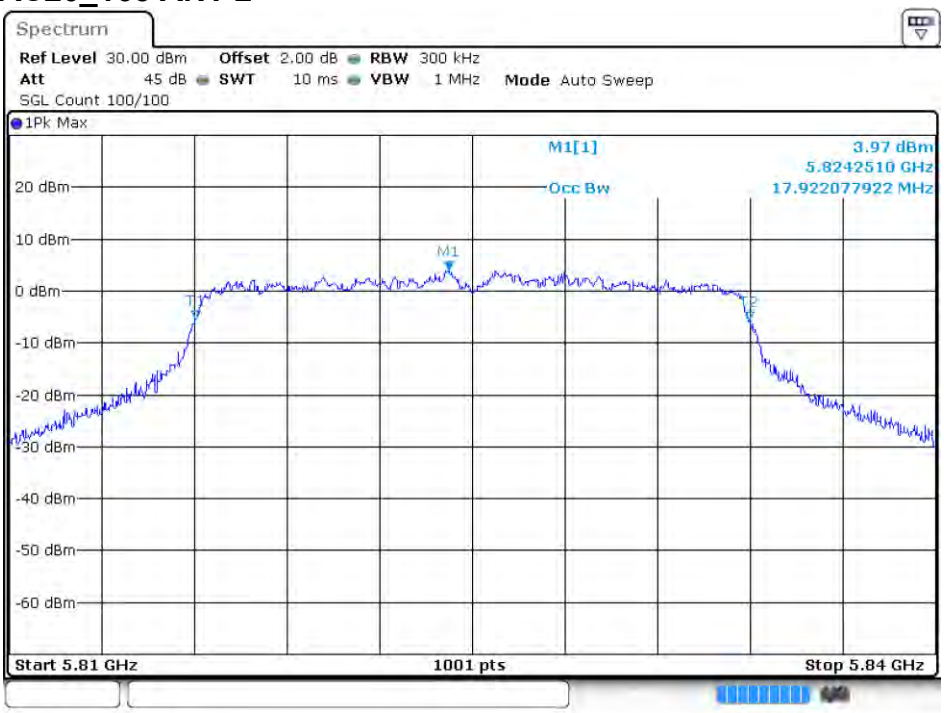

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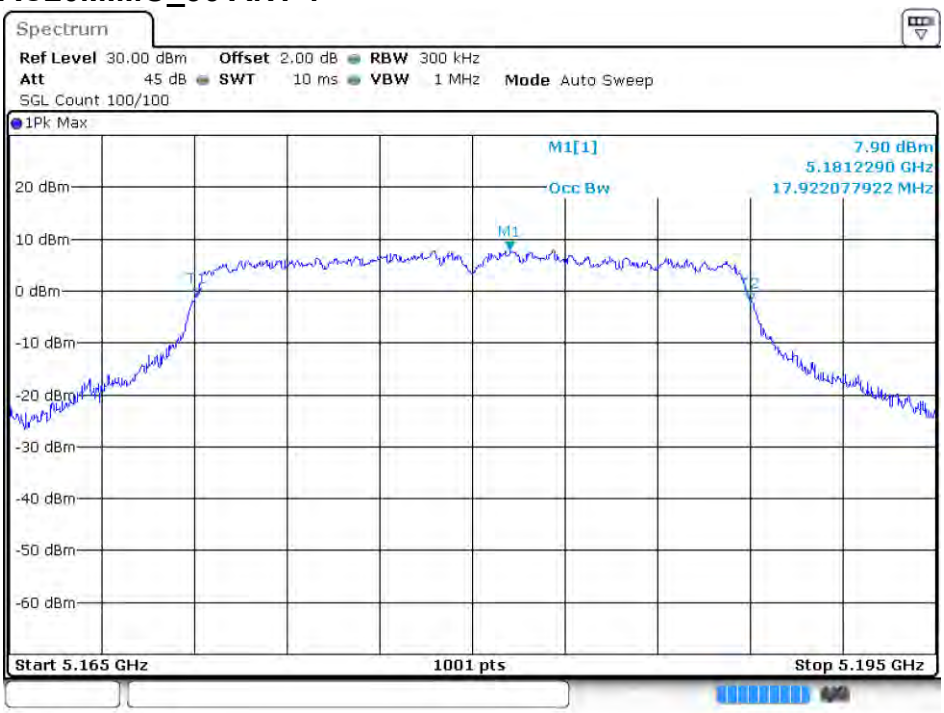
4.7.2.113 11AC20MIMO_36 ANT 1



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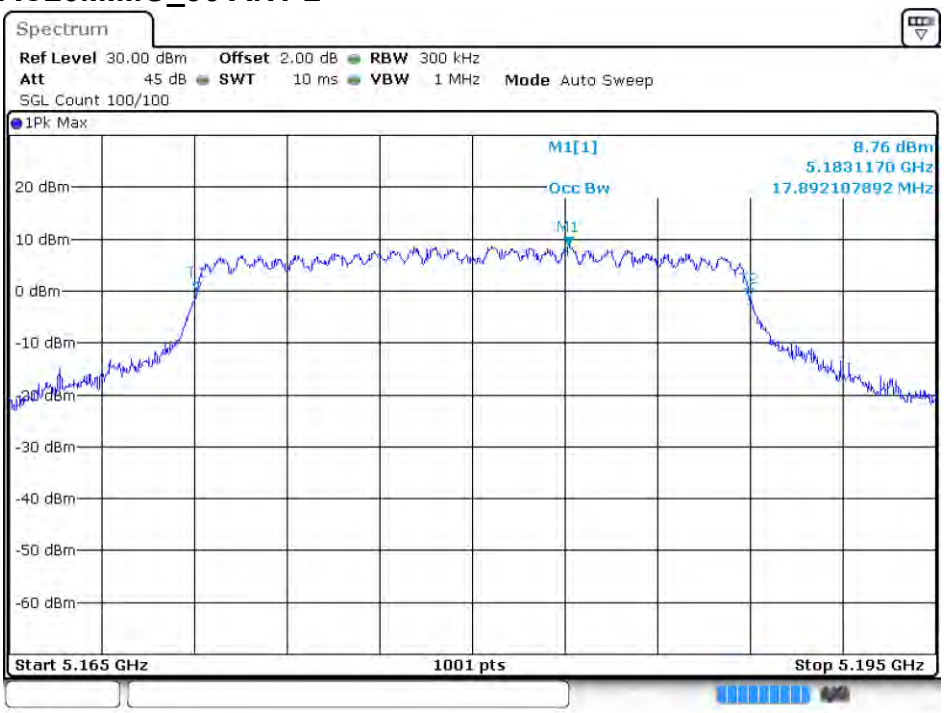
4.7.2.114 11AC20MIMO_36 ANT 2



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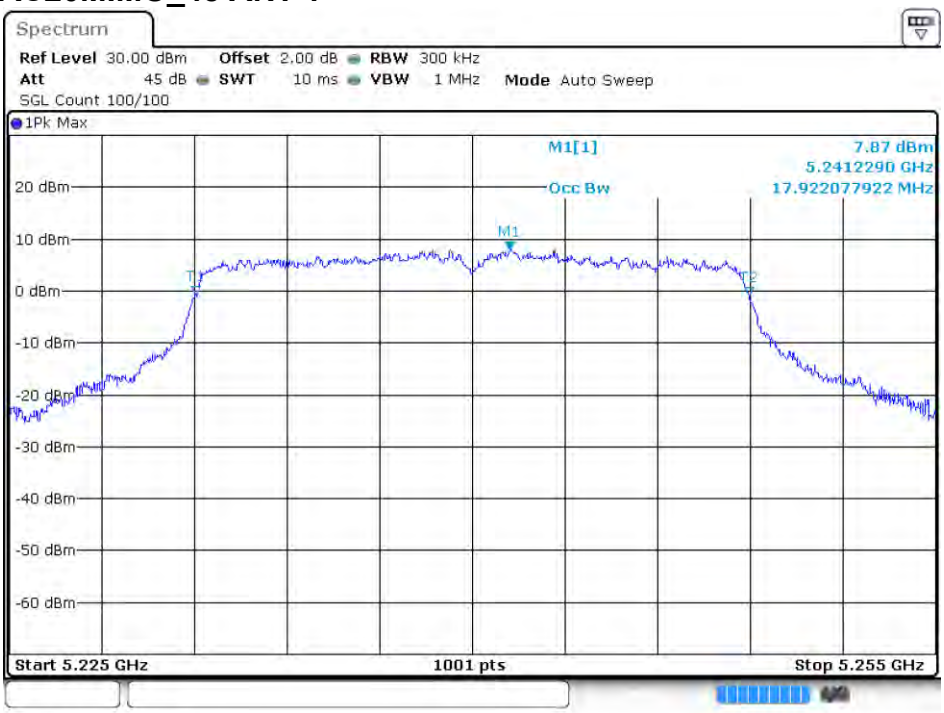
4.7.2.115 11AC20MIMO_48 ANT 1



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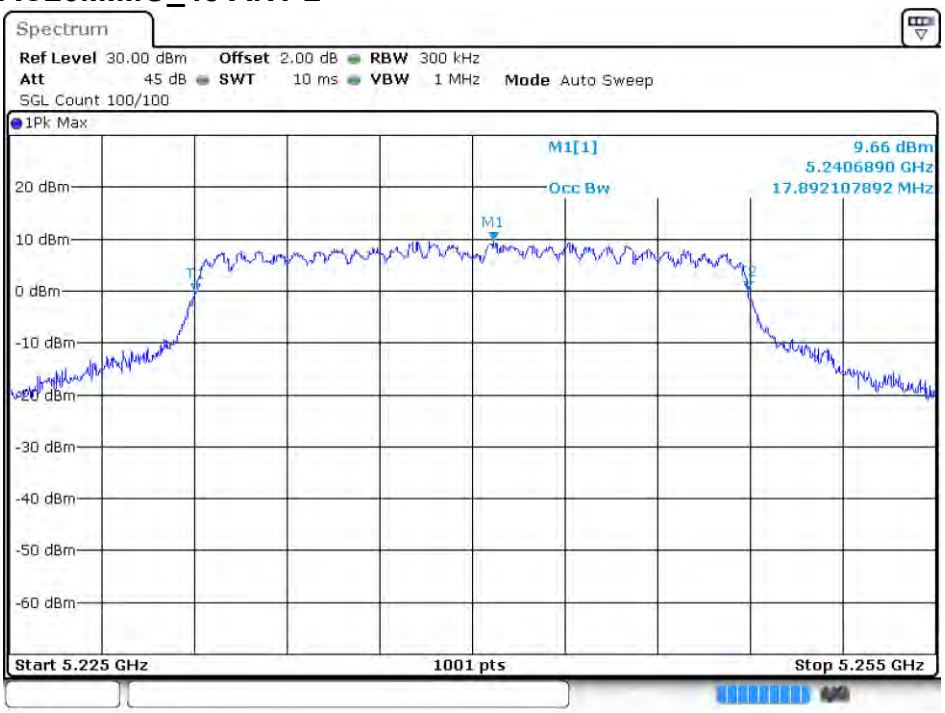
4.7.2.116 11AC20MIMO_48 ANT 2



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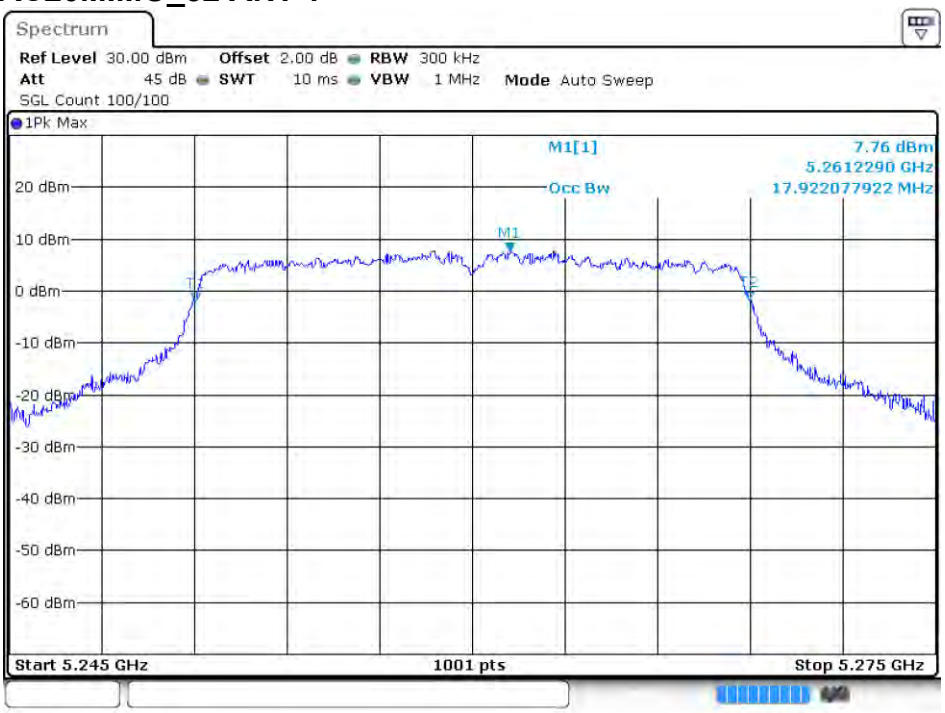
4.7.2.117 11AC20MIMO_52 ANT 1



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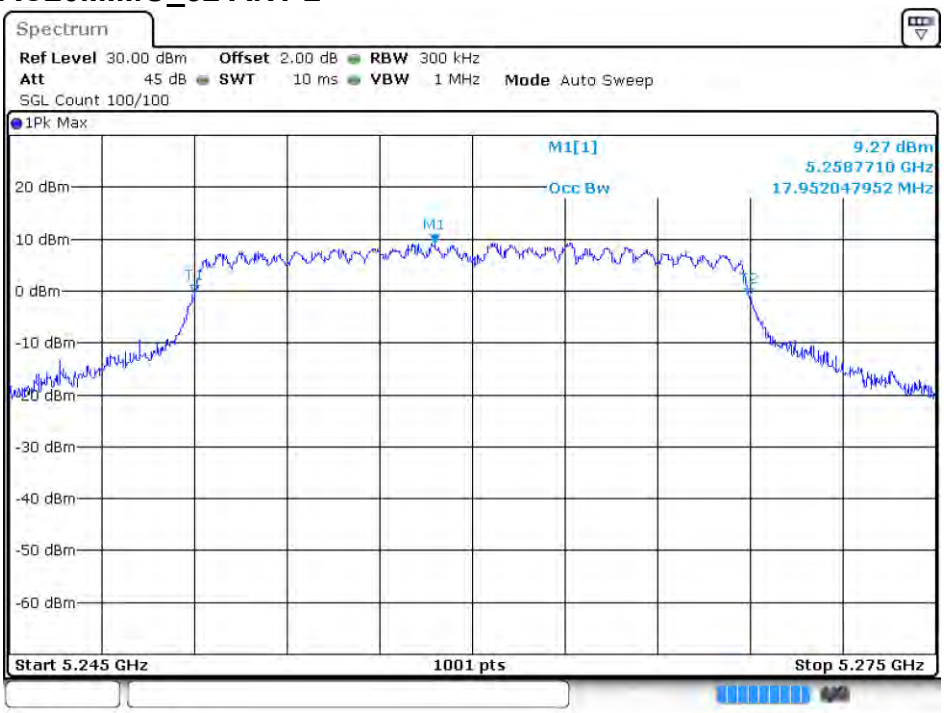
4.7.2.118 11AC20MIMO_52 ANT 2



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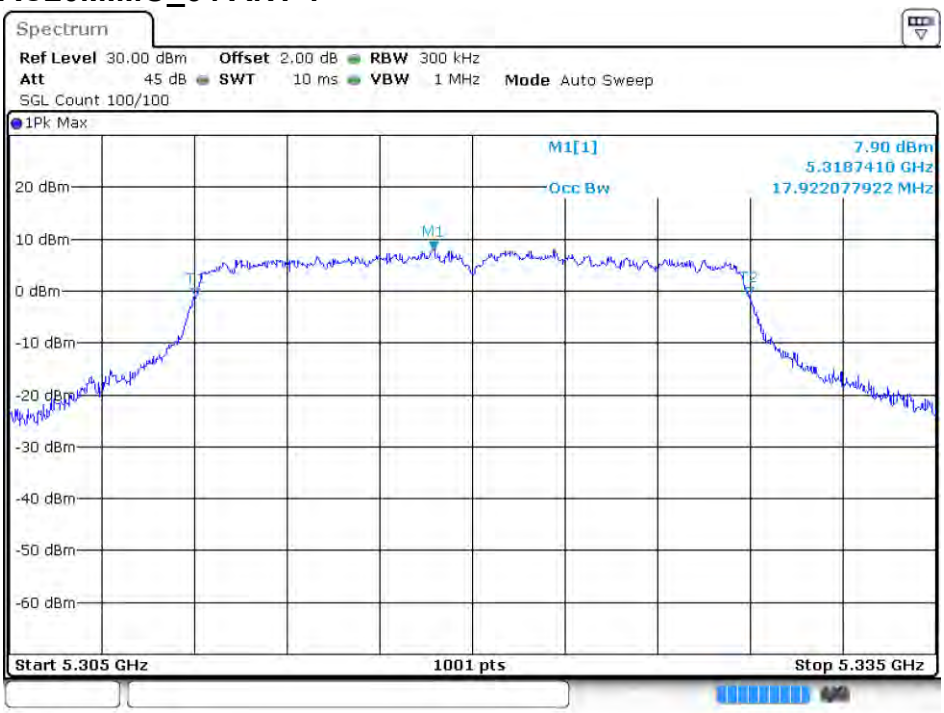
4.7.2.119 11AC20MIMO_64 ANT 1



Date: 1.JAN.2020 07:50:19

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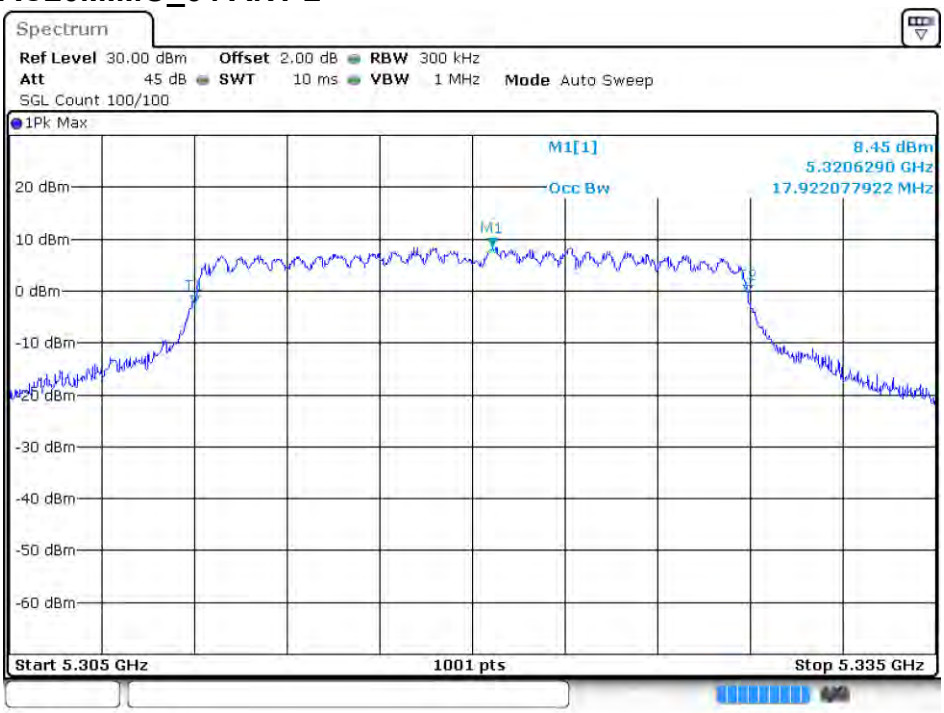
4.7.2.120 11AC20MIMO_64 ANT 2



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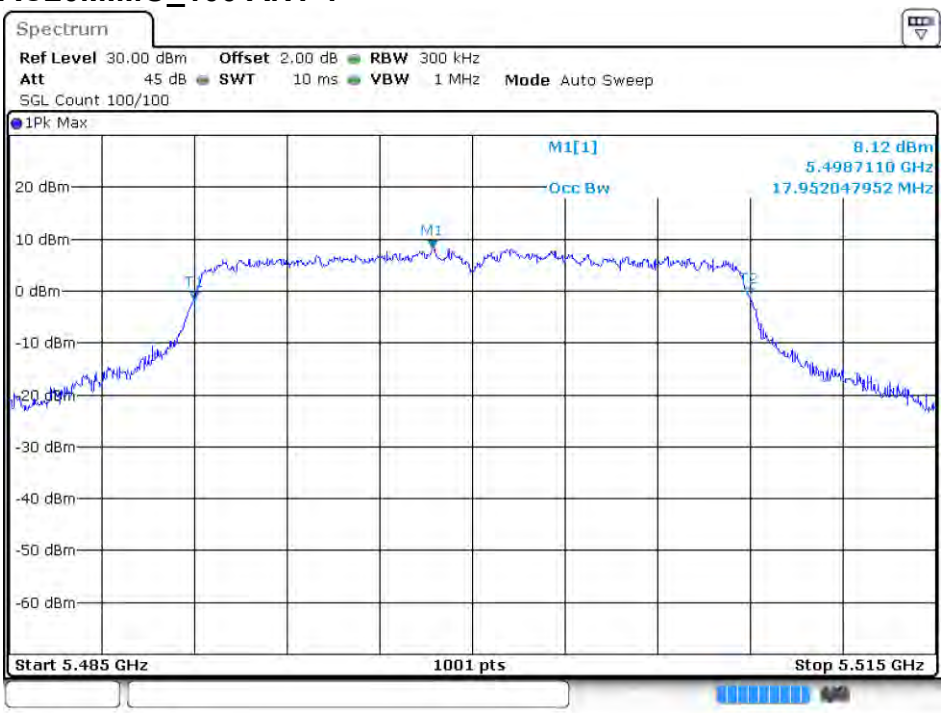
4.7.2.121 11AC20MIMO_100 ANT 1



Date: 1.JAN.2020 07:51:42

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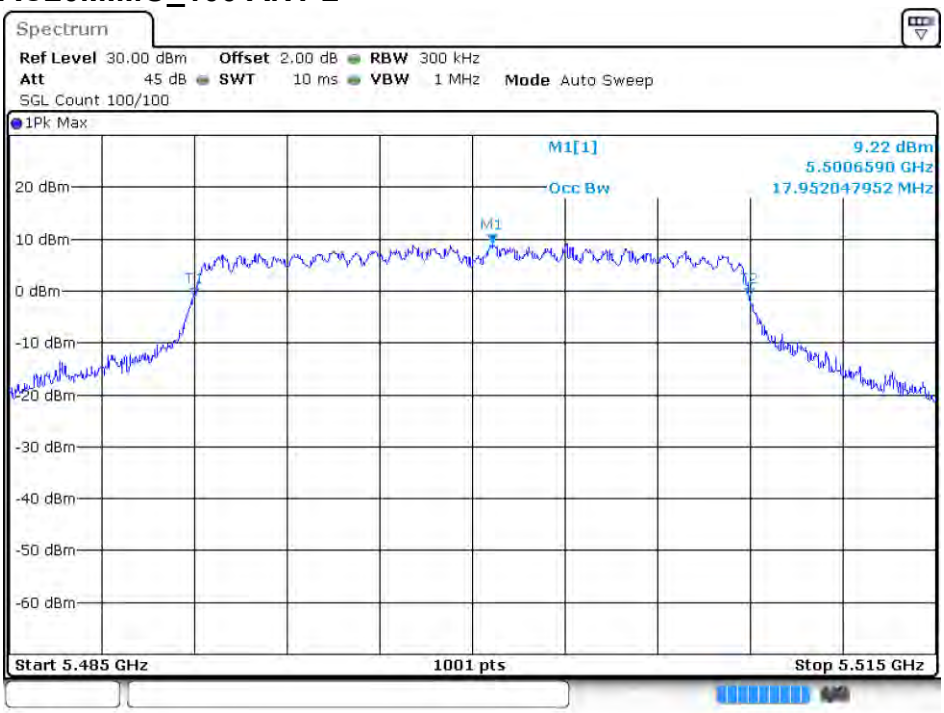
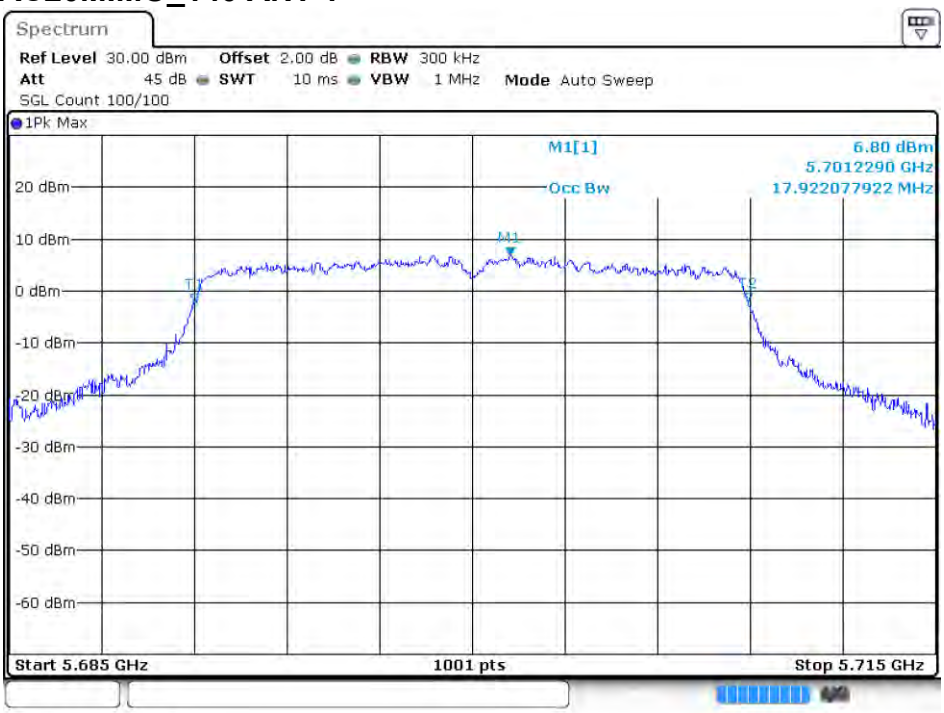
4.7.2.122 11AC20MIMO_100 ANT 2



Date: 3.JAN.2020 01:10:37

4.7.2.123 11AC20MIMO_140 ANT 1



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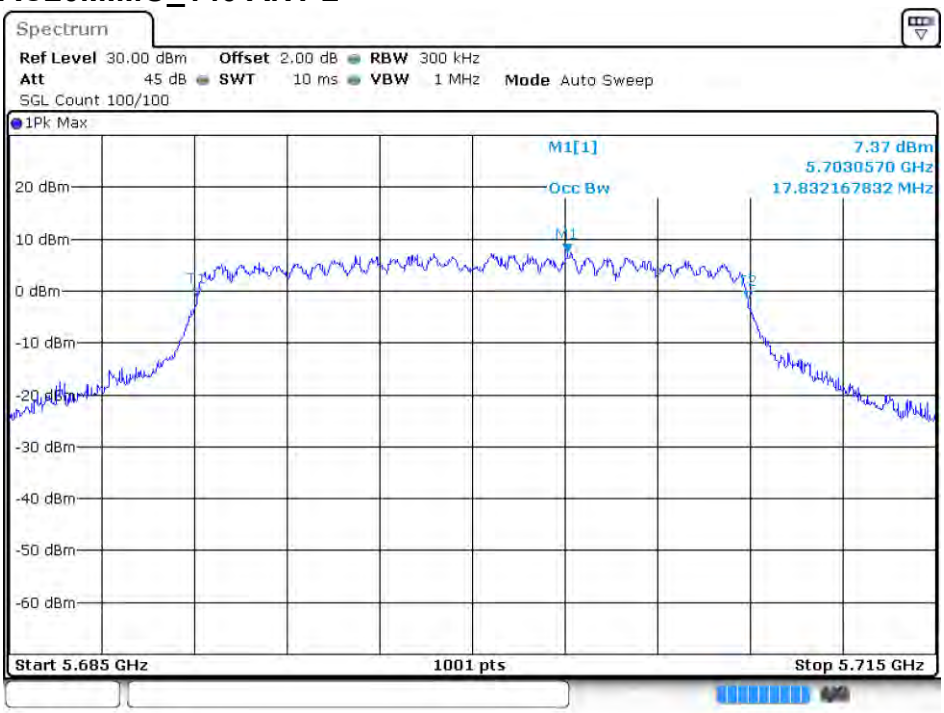
4.7.2.124 11AC20MIMO_140 ANT 2



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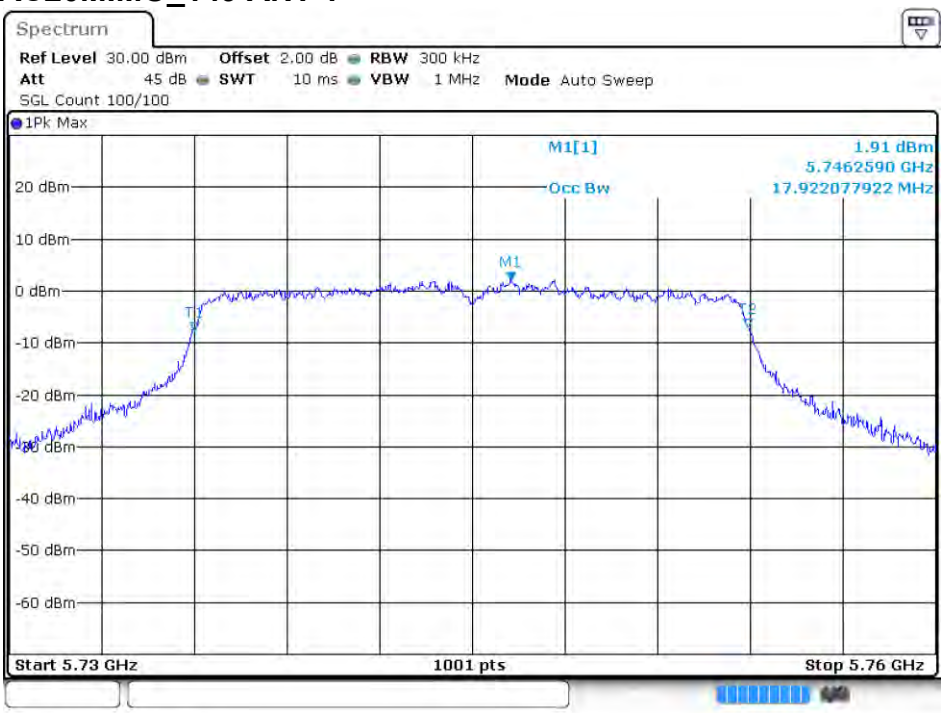
4.7.2.125 11AC20MIMO_149 ANT 1



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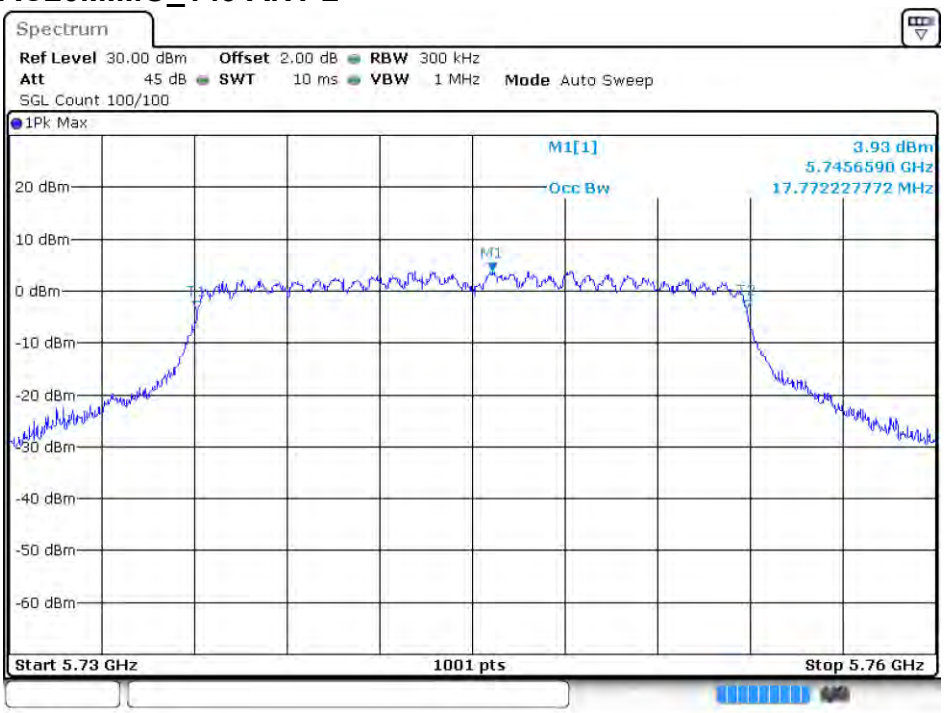
4.7.2.126 11AC20MIMO_149 ANT 2



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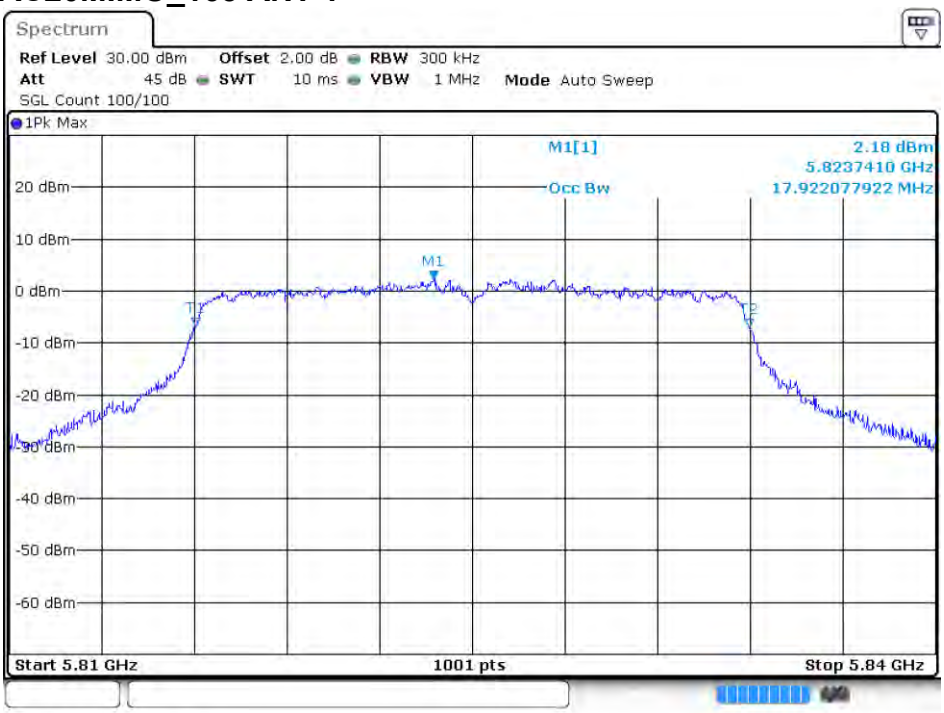

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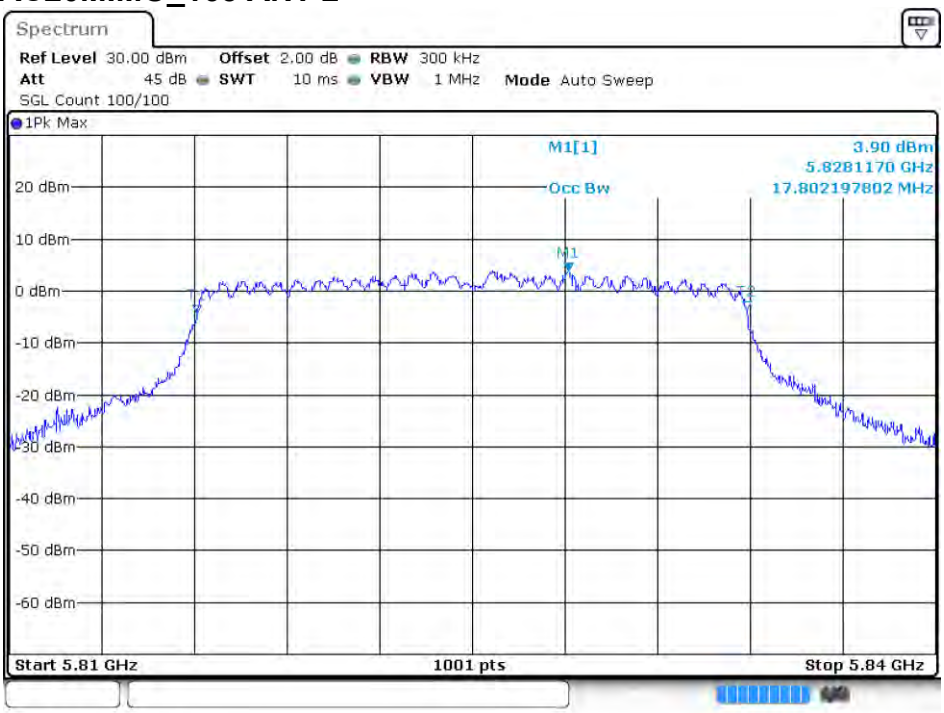
4.7.2.128 11AC20MIMO_165 ANT 2



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4.7.2.129 11AC40_38 ANT 1

Date: 1.JAN.2020 05:14:44

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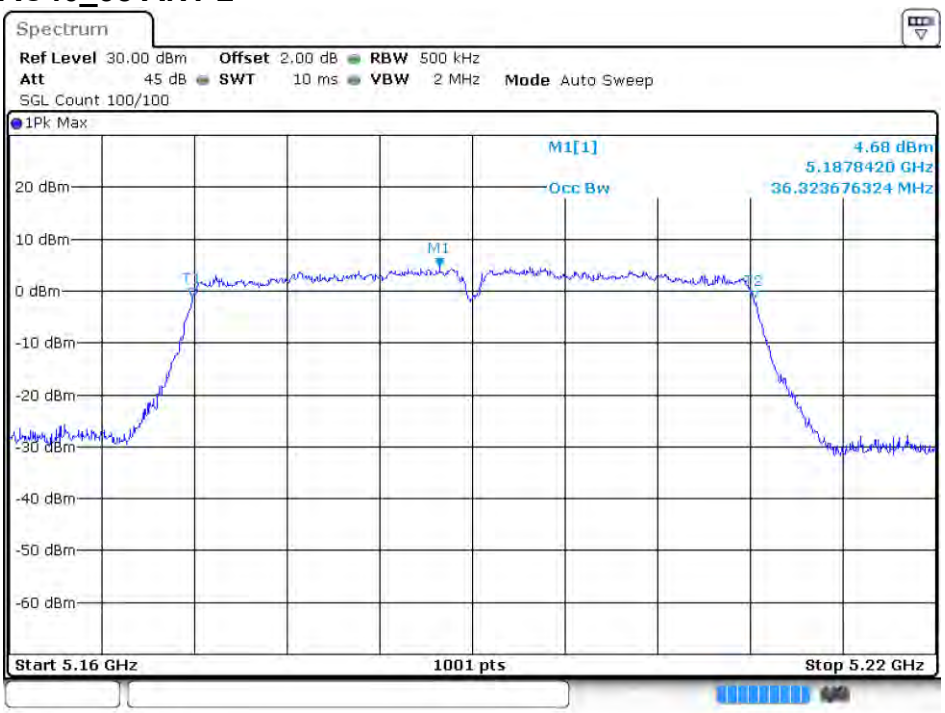
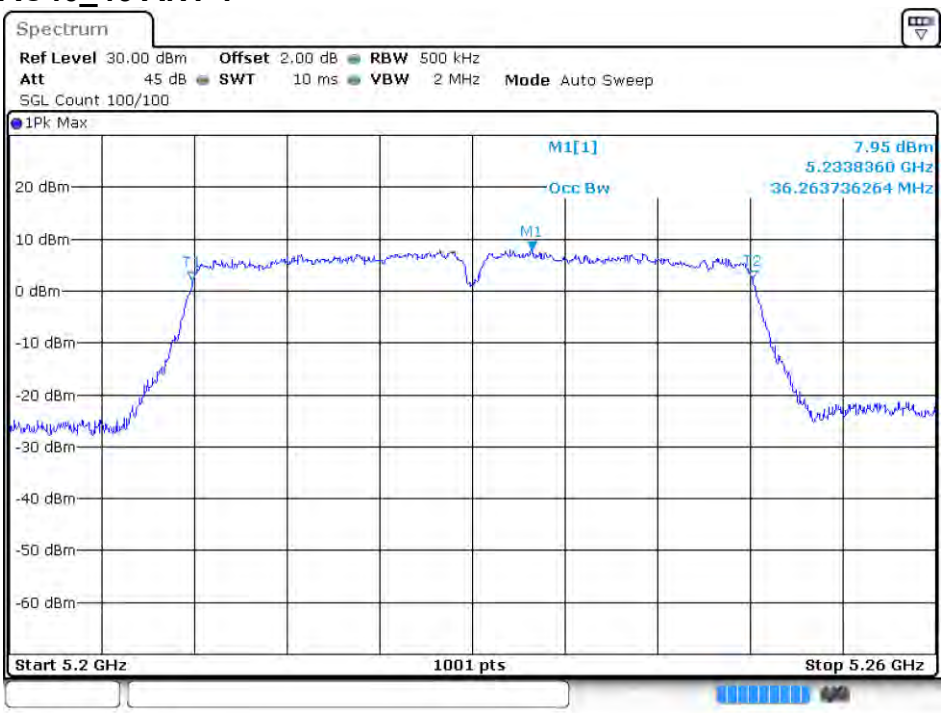
4.7.2.130 11AC40_38 ANT 2



Date: 1.JAN.2020 06:13:56

4.7.2.131 11AC40_46 ANT 1



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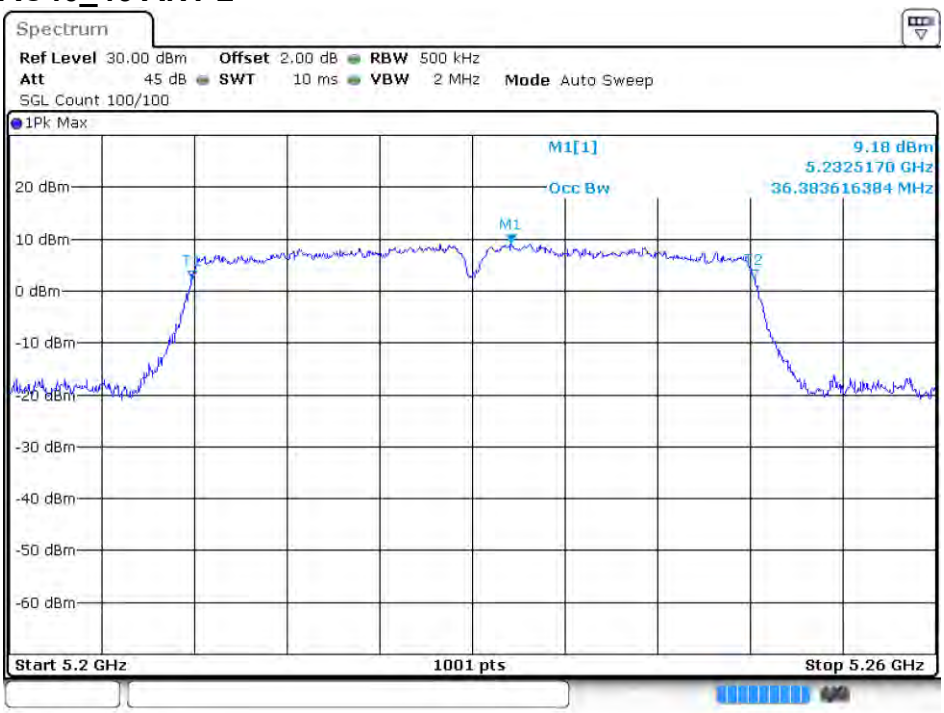
4.7.2.132 11AC40_46 ANT 2



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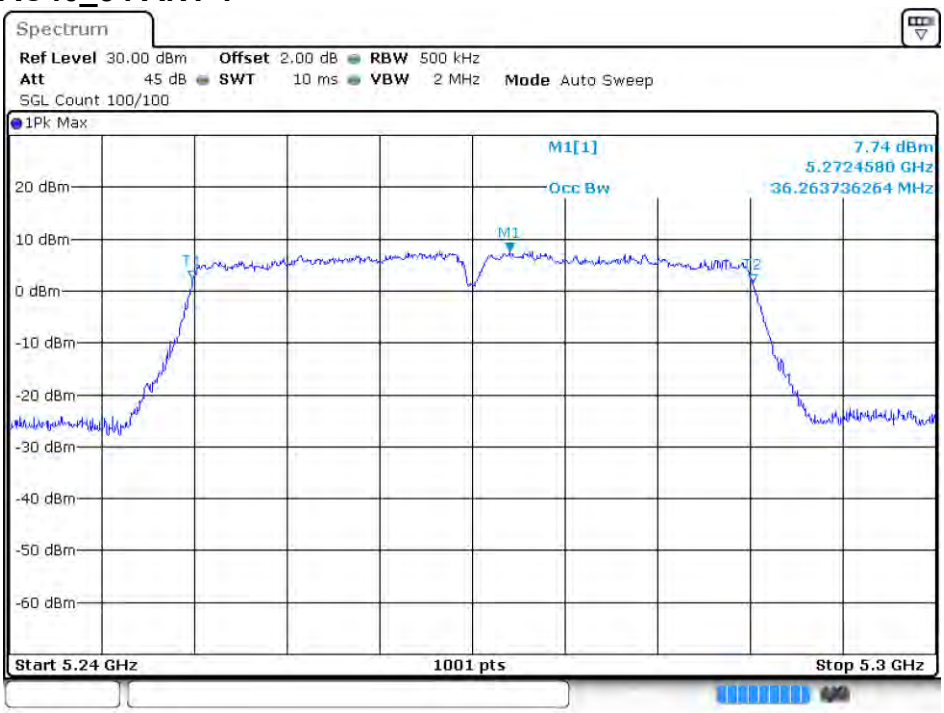
4.7.2.133 11AC40_54 ANT 1



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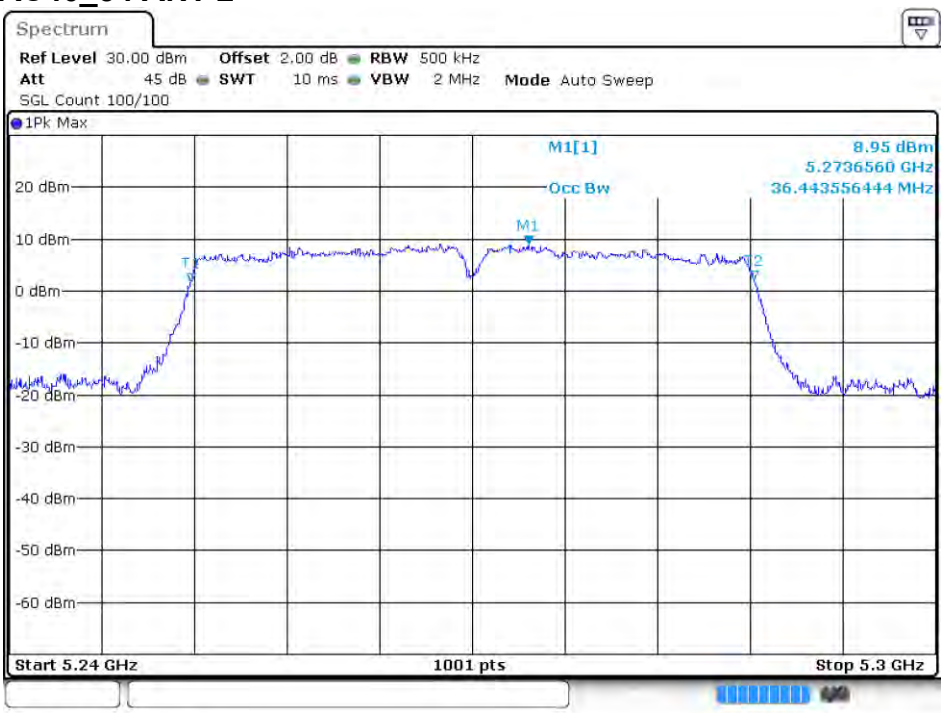
4.7.2.134 11AC40_54 ANT 2



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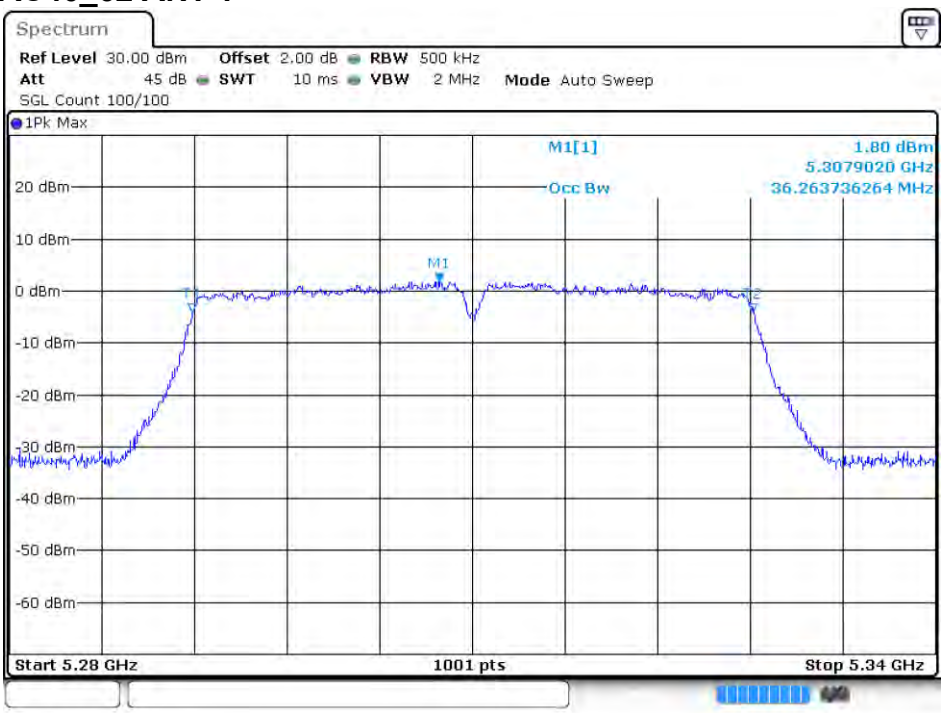
4.7.2.135 11AC40_62 ANT 1



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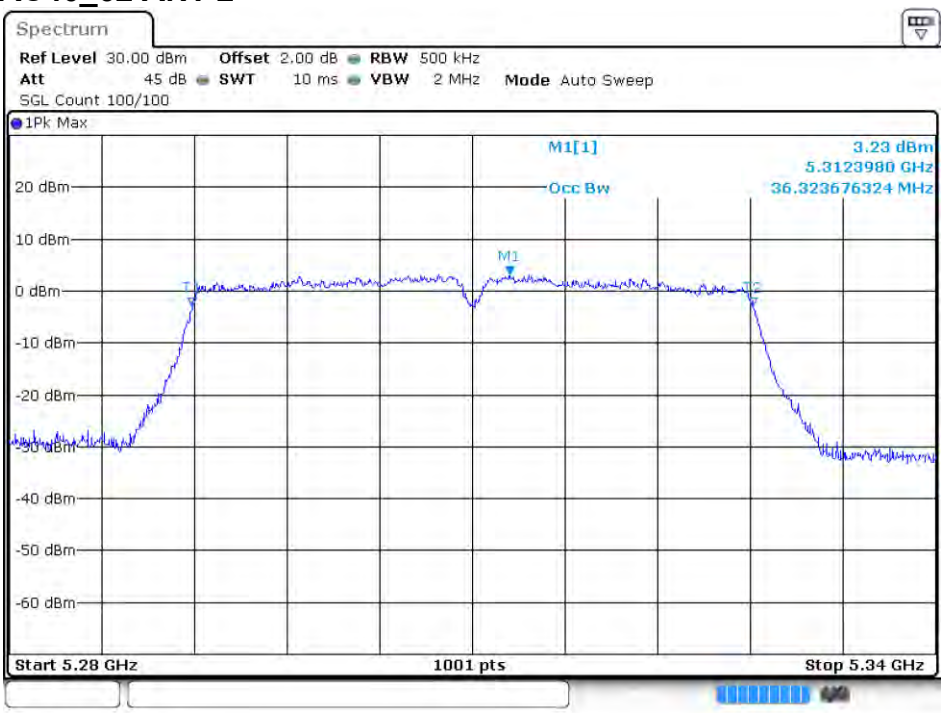

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4.7.2.137 11AC40_102 ANT 1

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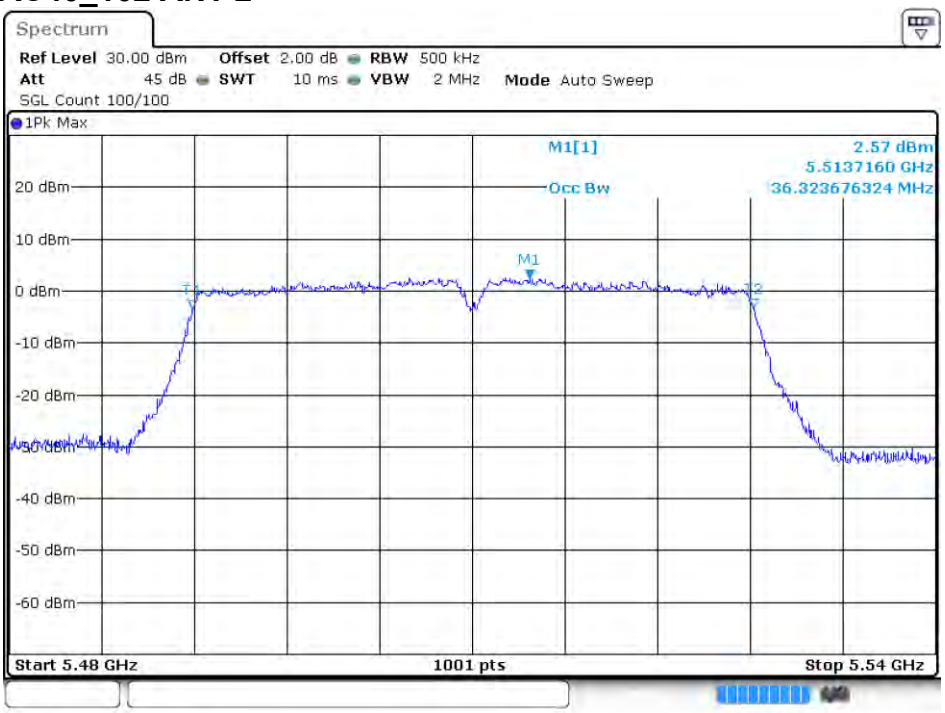

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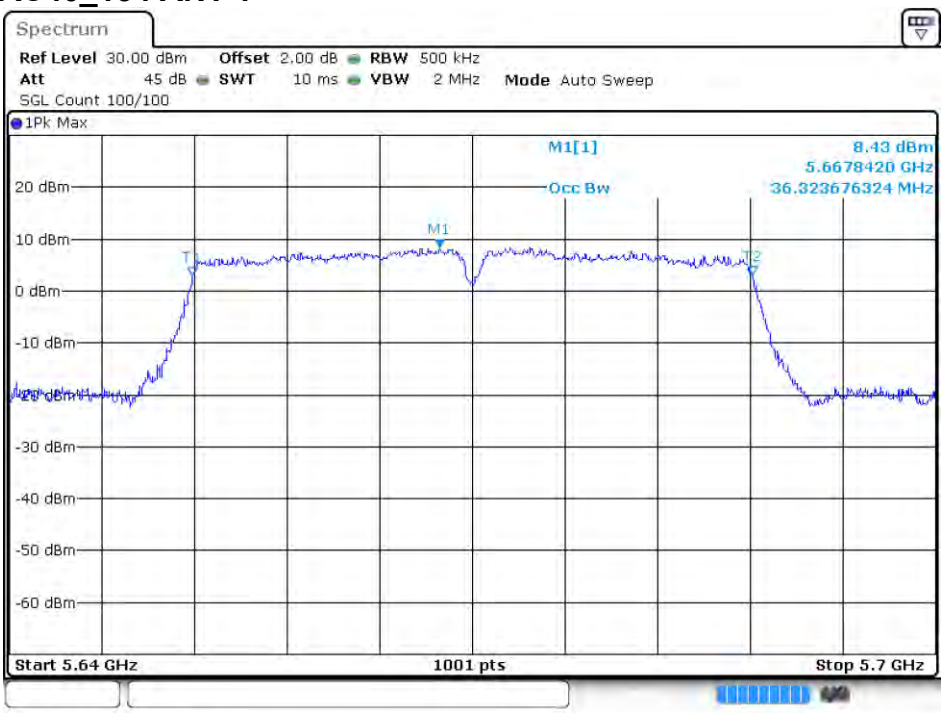

Date: 1.JAN.2020 05:23:21

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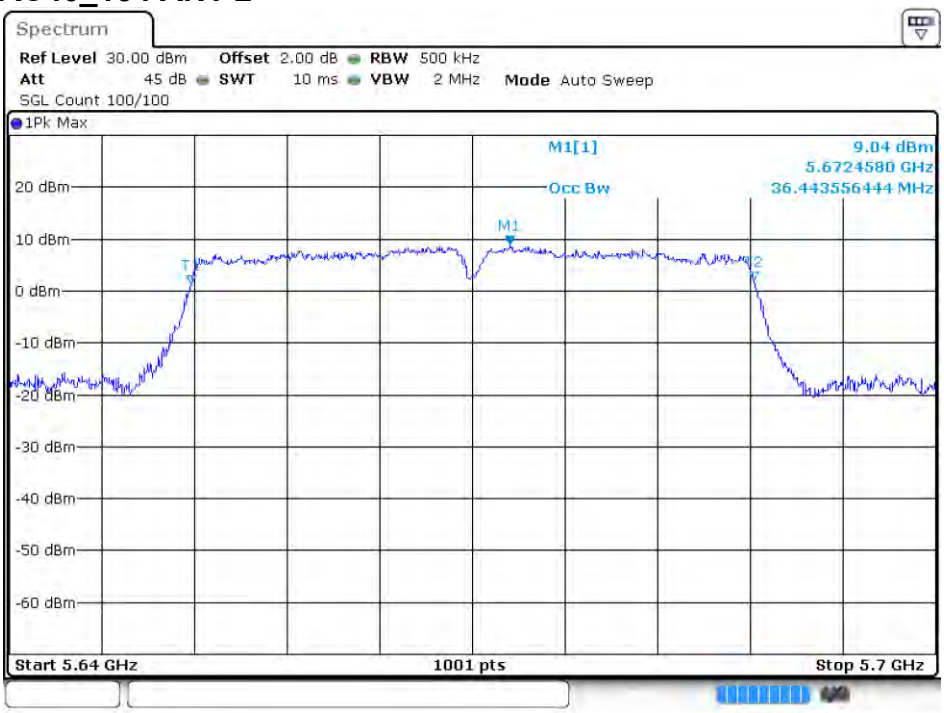
4.7.2.140 11AC40_134 ANT 2



Date: 1.JAN.2020 06:23:30

4.7.2.141 11AC40_151 ANT 1

Date: 1.JAN.2020 05:25:21

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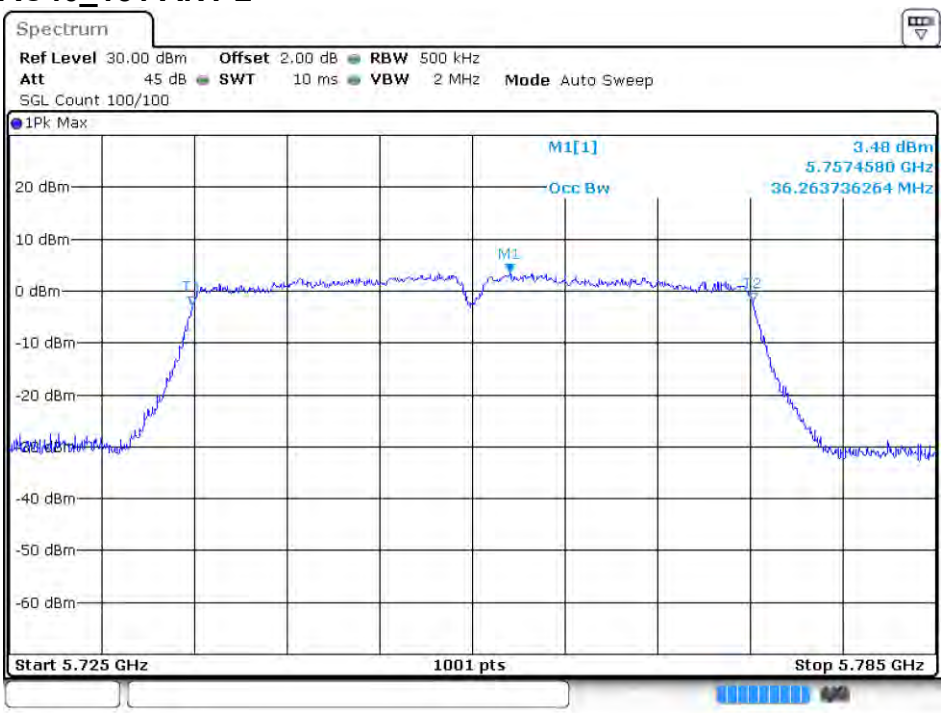
4.7.2.142 11AC40_151 ANT 2



Date: 1.JAN.2020 06:25:14

4.7.2.143 11AC40_159 ANT 1

Date: 1.JAN.2020 05:26:14

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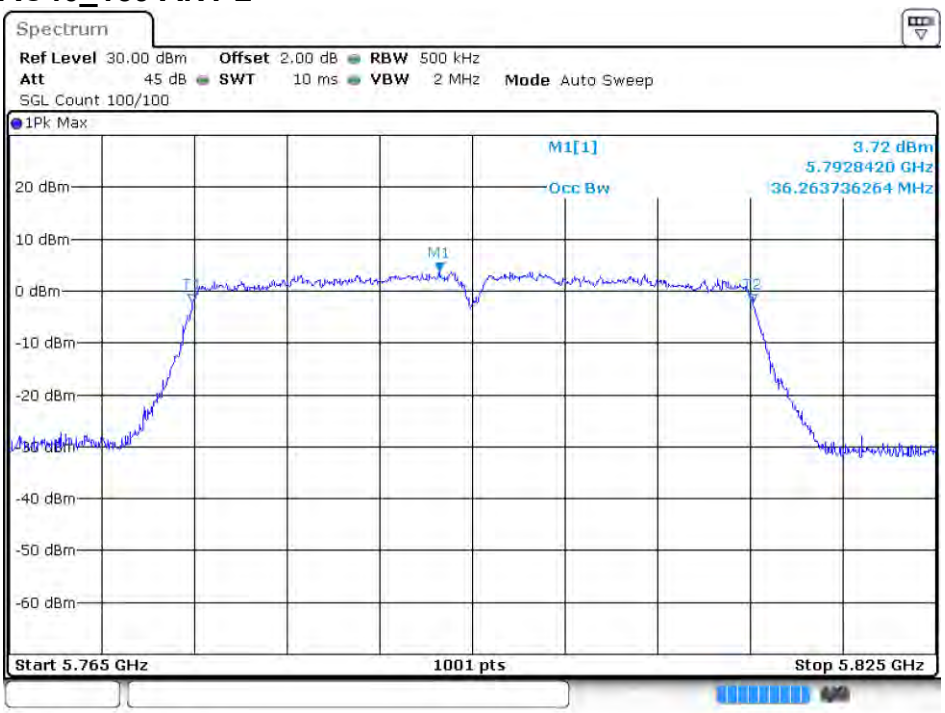
4.7.2.144 11AC40_159 ANT 2



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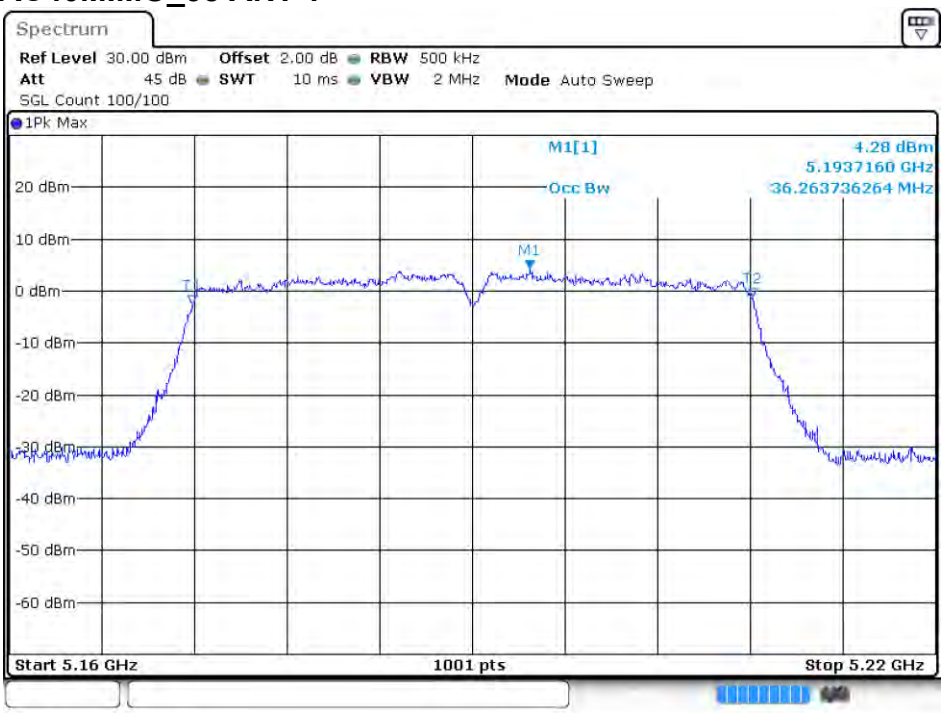
4.7.2.145 11AC40MIMO_38 ANT 1



Date: 3.JAN.2020 02:50:07

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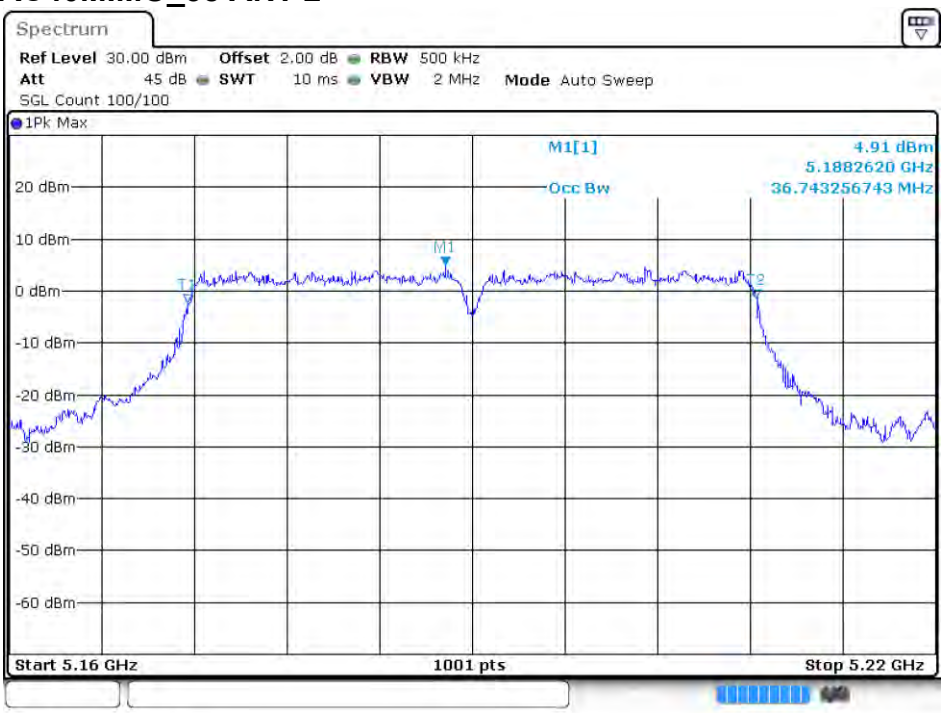
4.7.2.146 11AC40MIMO_38 ANT 2



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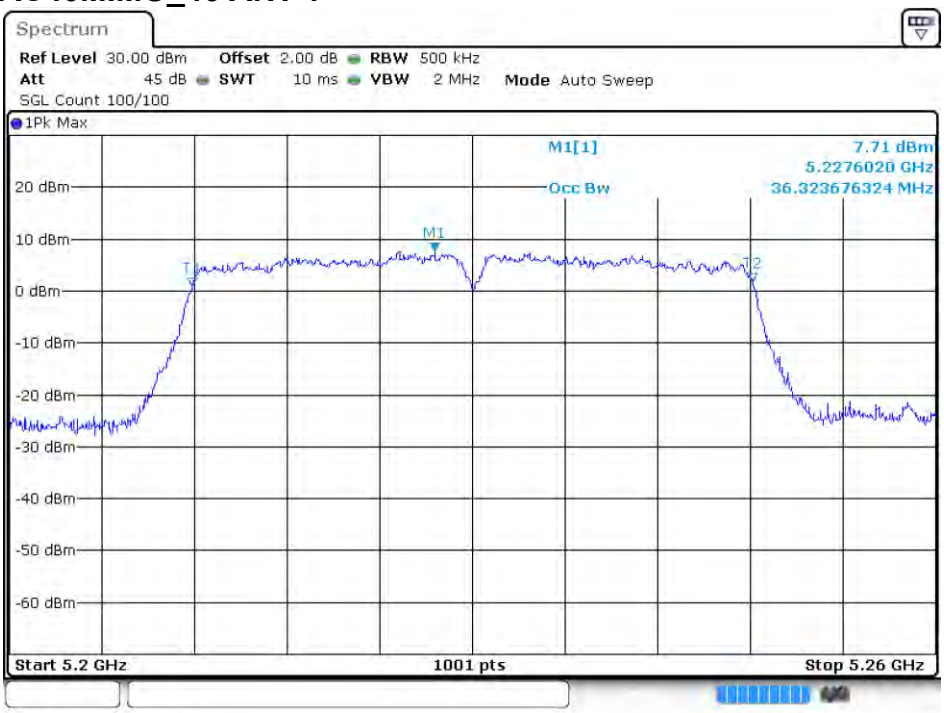
4.7.2.147 11AC40MIMO_46 ANT 1



Date: 3.JAN.2020 02:52:09

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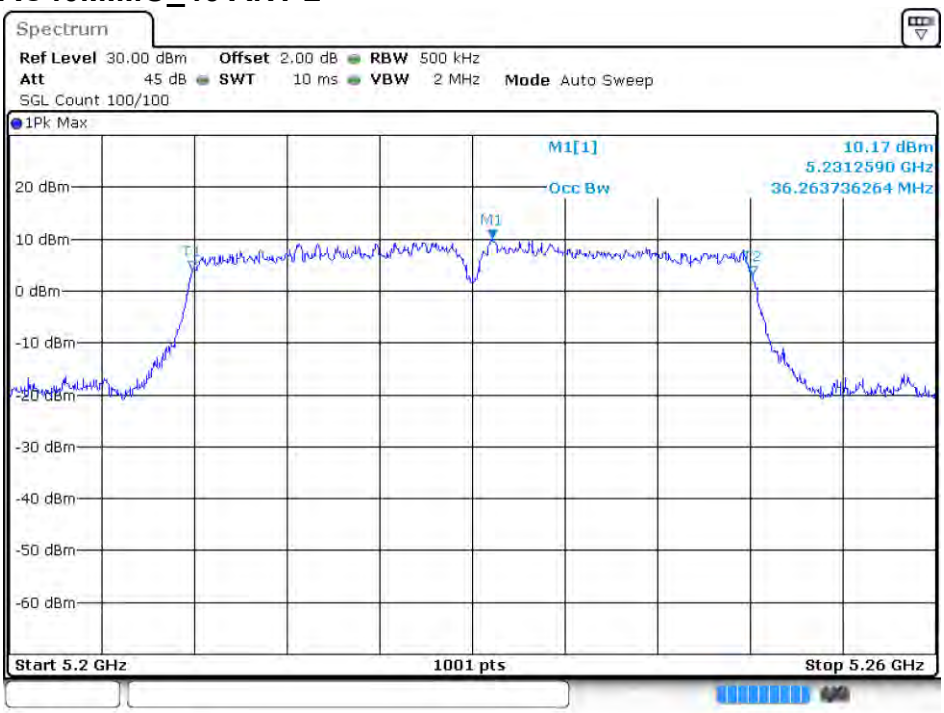
4.7.2.148 11AC40MIMO_46 ANT 2



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4.7.2.149 11AC40MIMO_54 ANT 1

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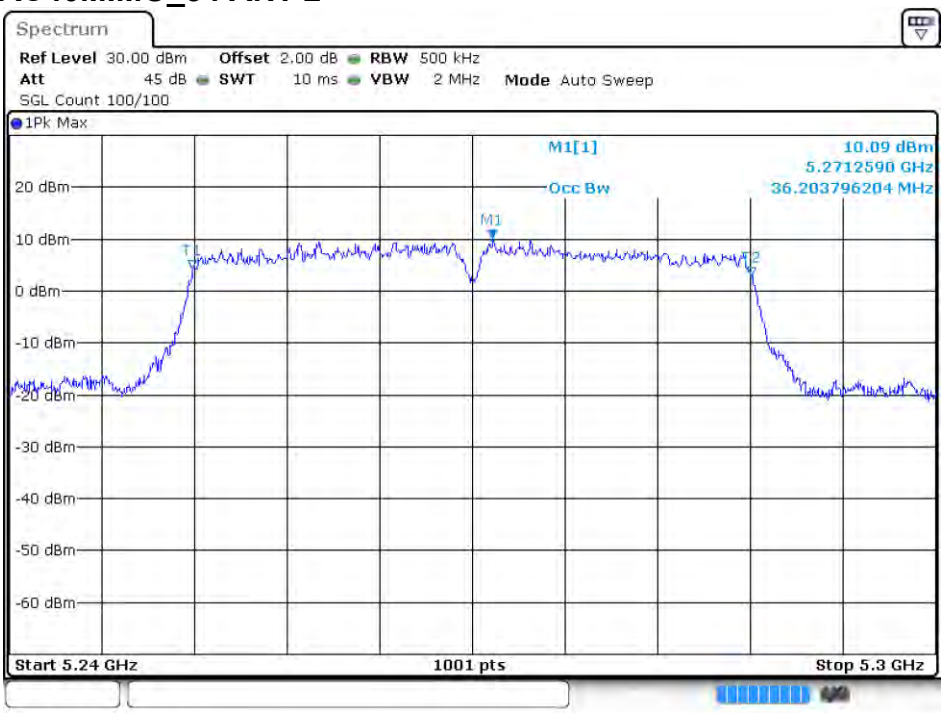
4.7.2.150 11AC40MIMO_54 ANT 2



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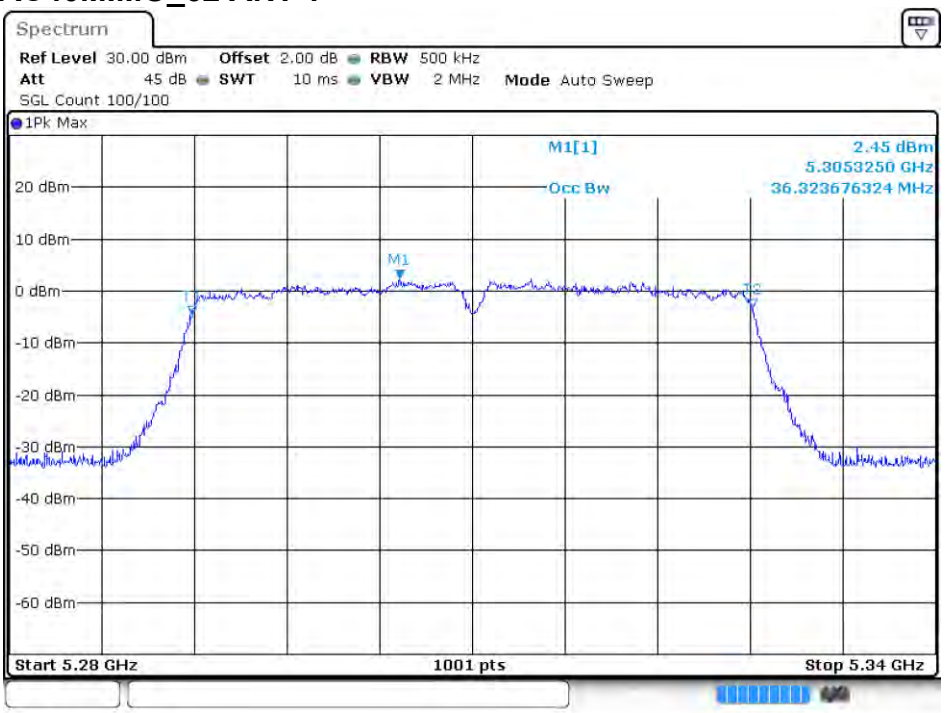
4.7.2.151 11AC40MIMO_62 ANT 1



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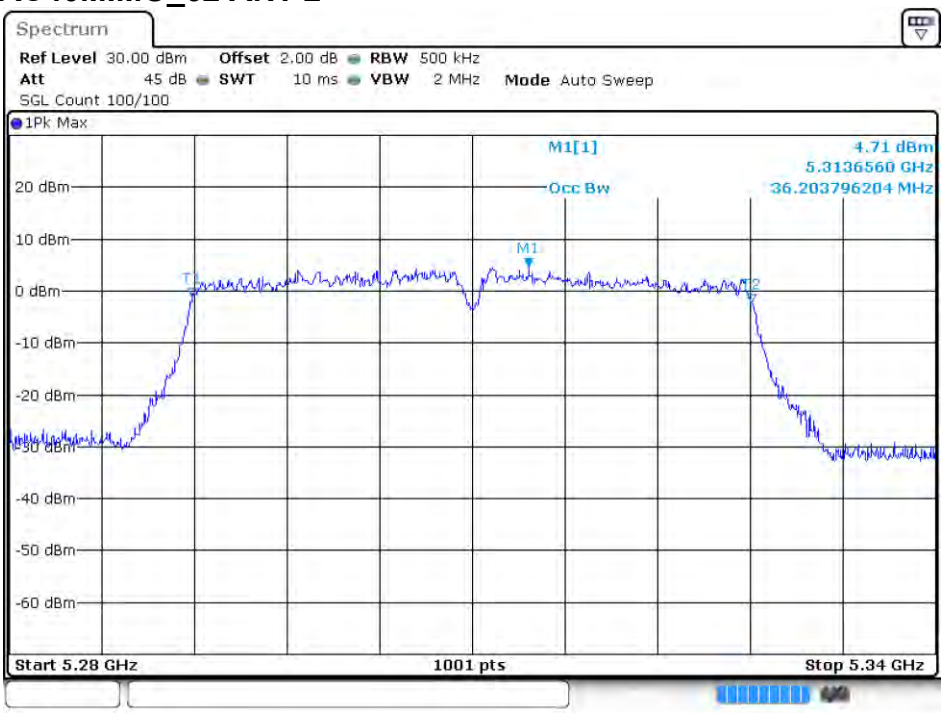
4.7.2.152 11AC40MIMO_62 ANT 2



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4.7.2.153 11AC40MIMO_102 ANT 1

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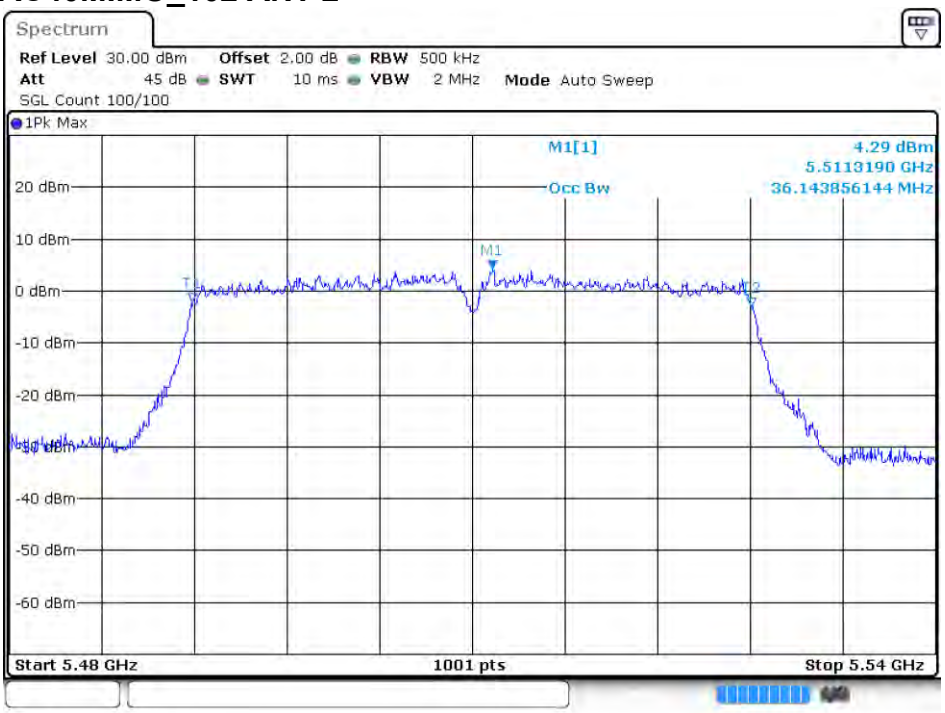

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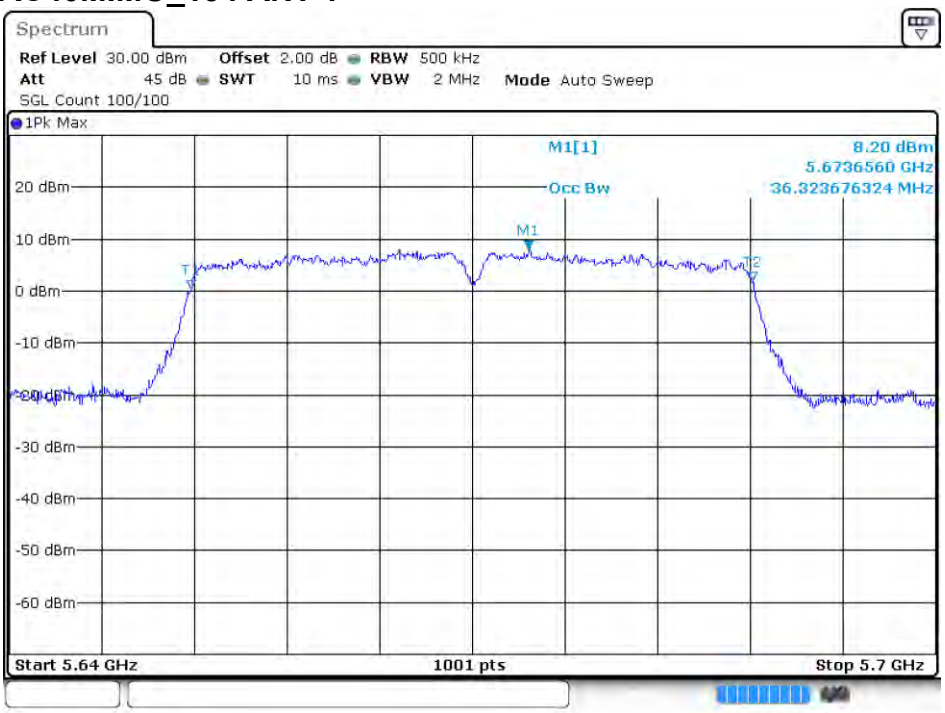
4.7.2.155 11AC40MIMO_134 ANT 1



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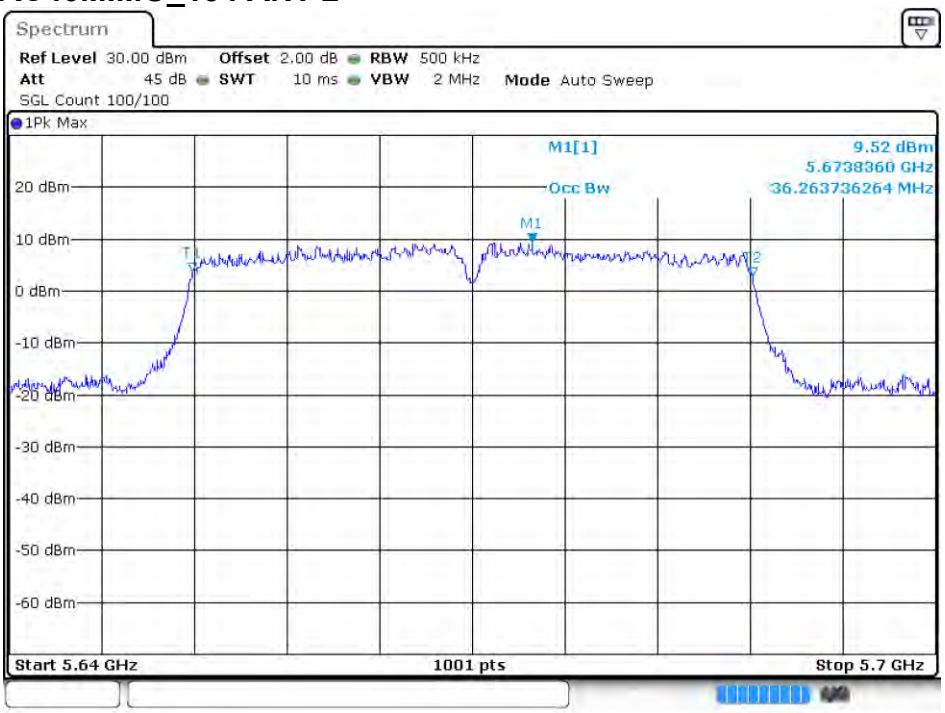
4.7.2.156 11AC40MIMO_134 ANT 2



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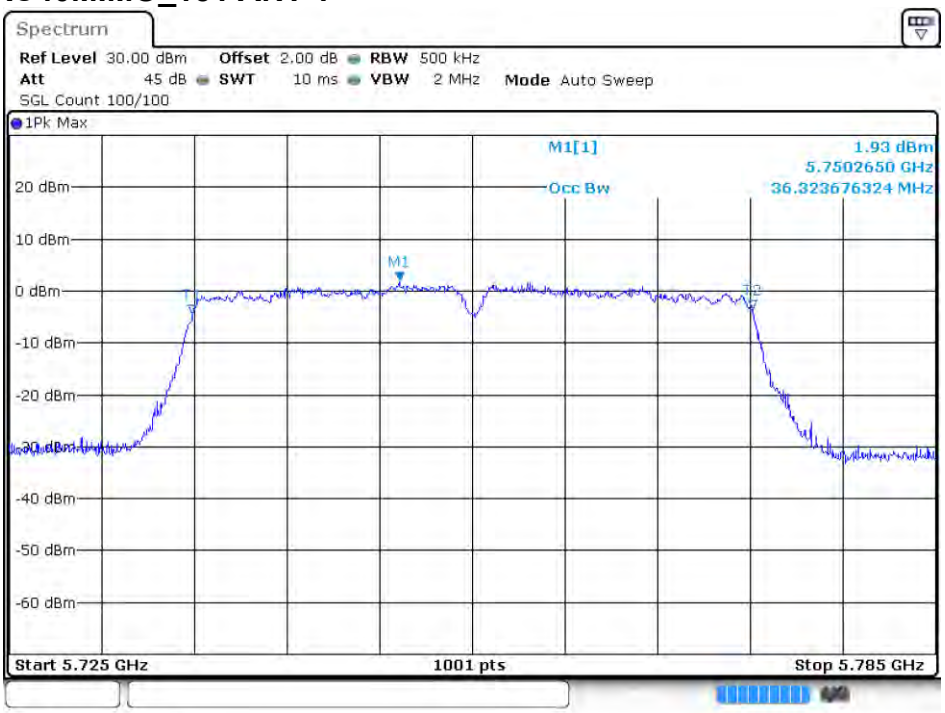
4.7.2.157 11AC40MIMO_151 ANT 1



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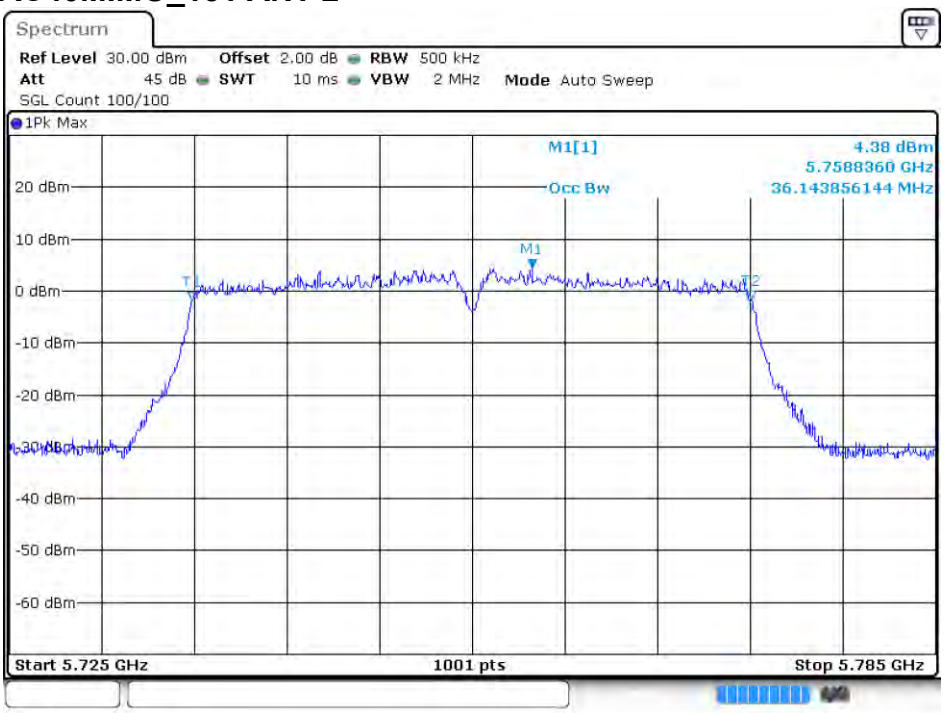
4.7.2.158 11AC40MIMO_151 ANT 2



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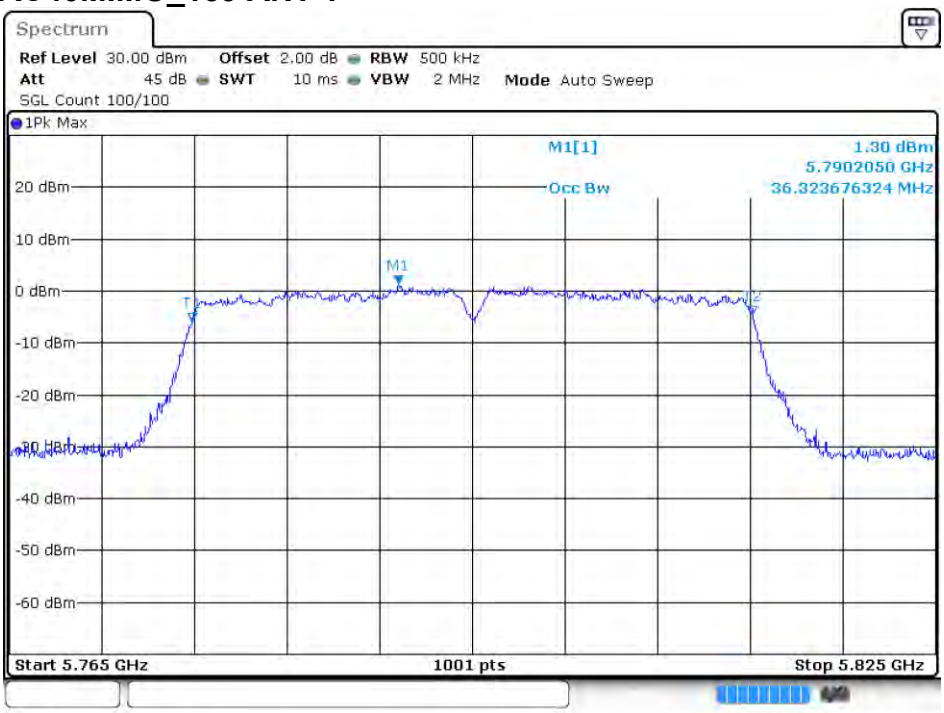
4.7.2.159 11AC40MIMO_159 ANT 1



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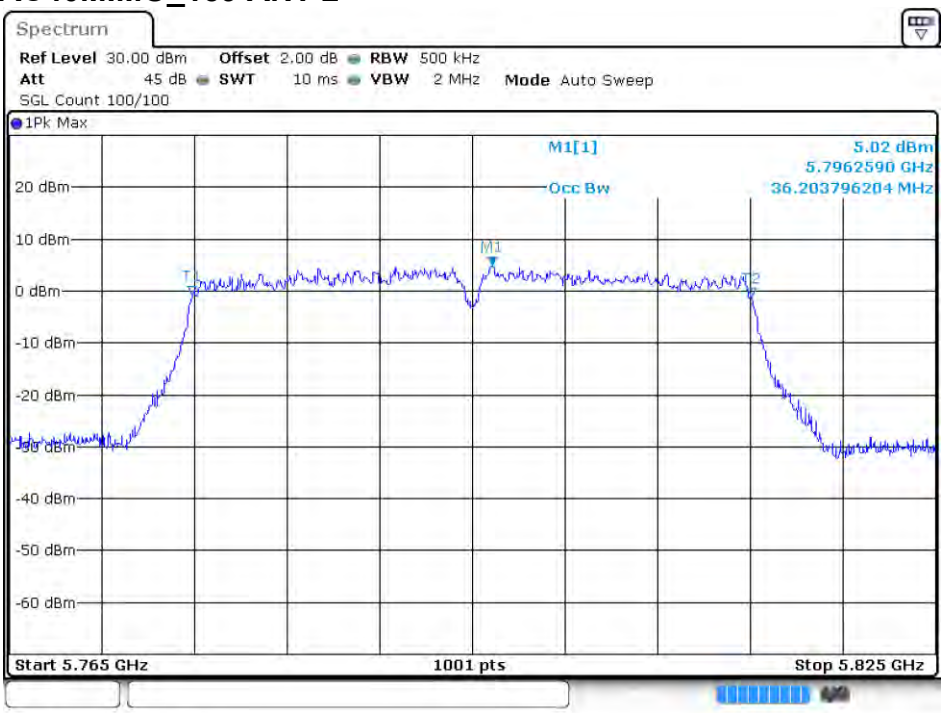
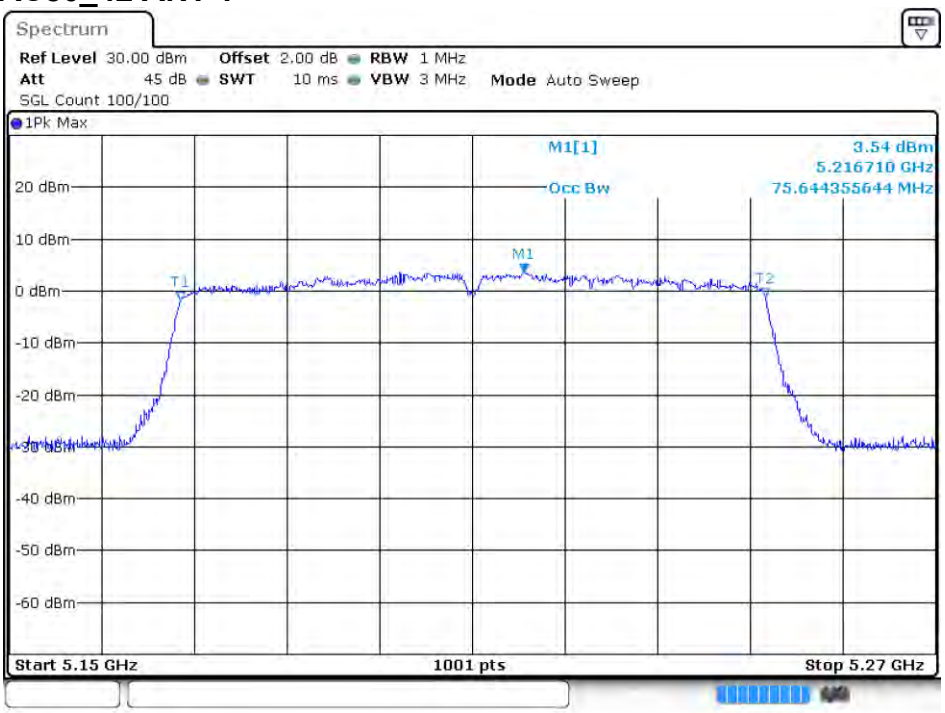
4.7.2.160 11AC40MIMO_159 ANT 2



Date: 3.JAN.2020 02:03:42

4.7.2.161 11AC80_42 ANT 1



Date: 1.JAN.2020 05:31:34

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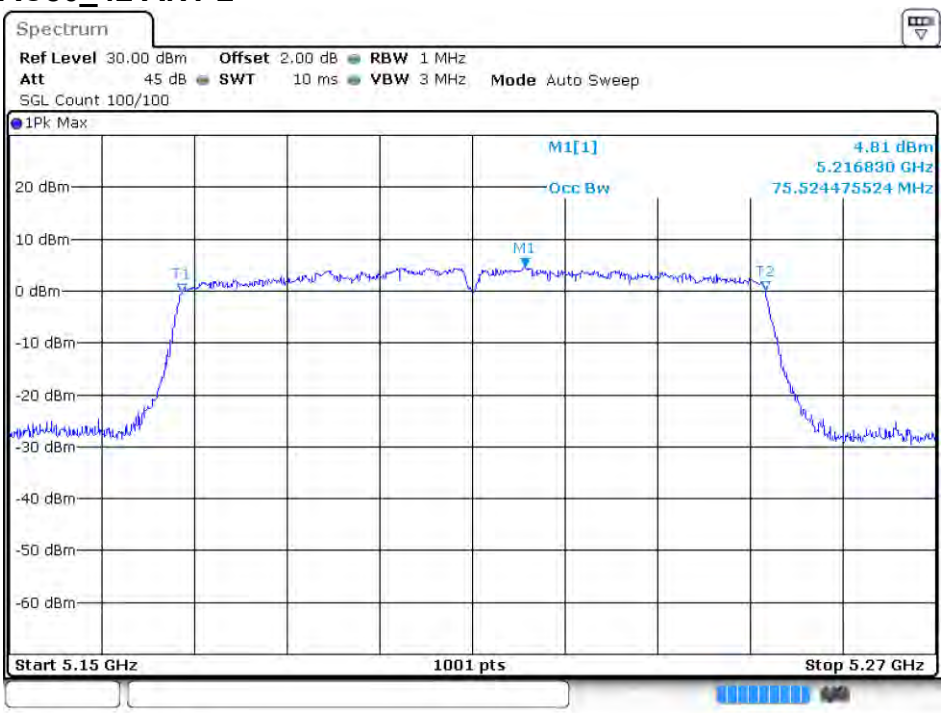
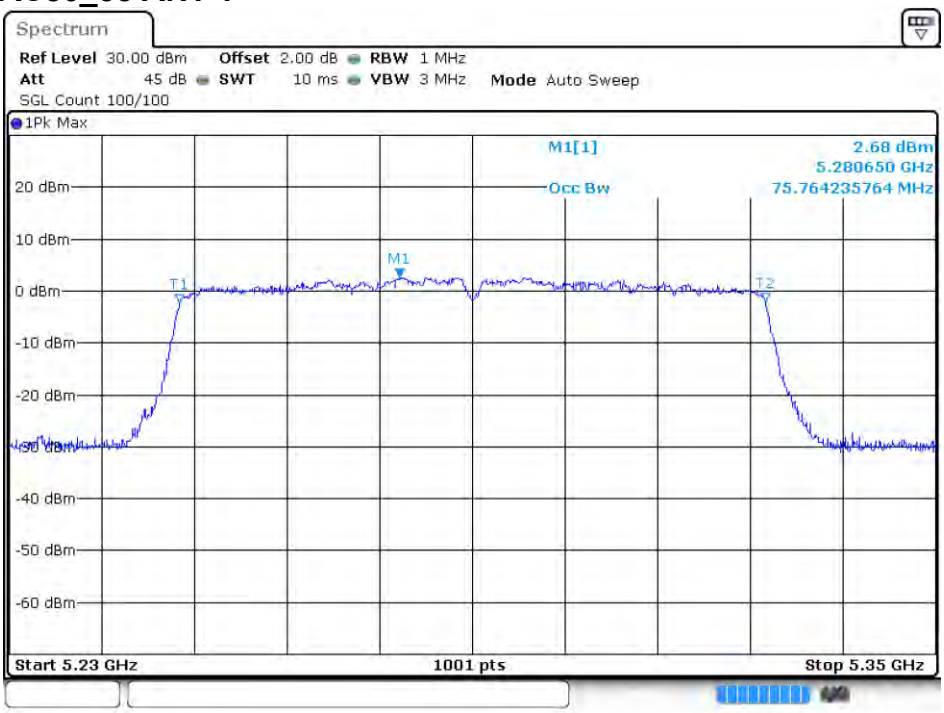
4.7.2.162 11AC80_42 ANT 2



Date: 1.JAN.2020 06:38:31

4.7.2.163 11AC80_58 ANT 1



Date: 1.JAN.2020 05:32:52

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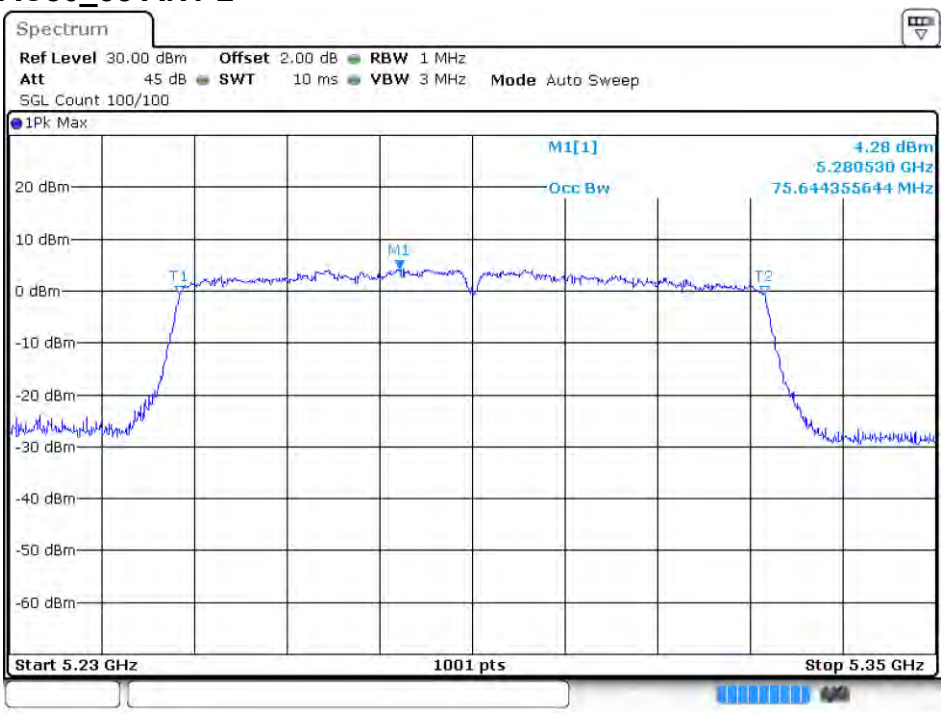
4.7.2.164 11AC80_58 ANT 2



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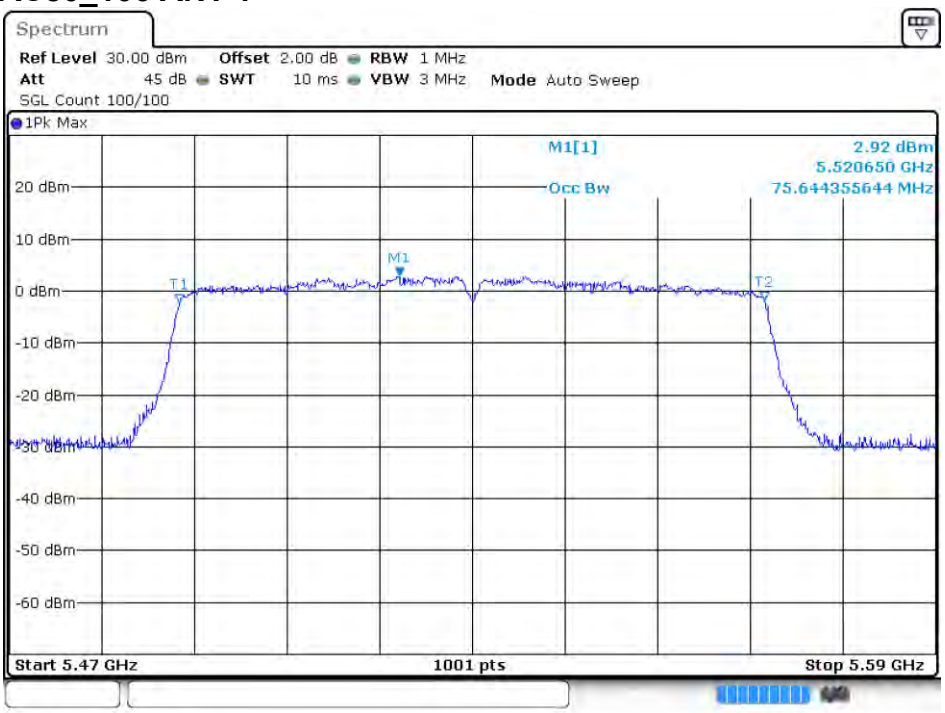
4.7.2.165 11AC80_106 ANT 1



Date: 1.JAN.2020 05:35:00

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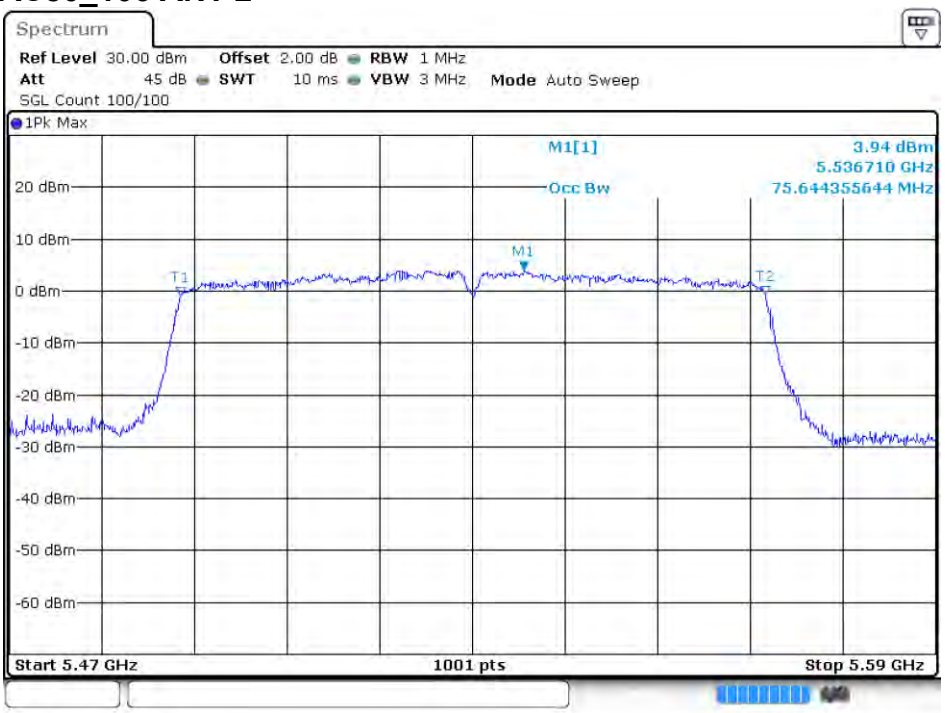
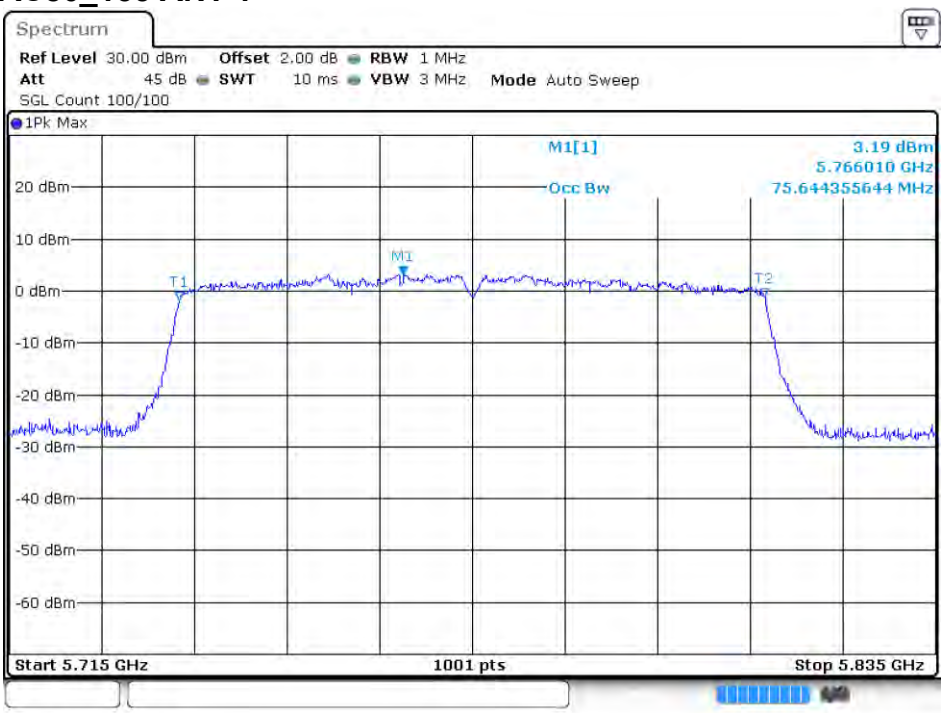
4.7.2.166 11AC80_106 ANT 2



Date: 1.JAN.2020 06:42:09

4.7.2.167 11AC80_155 ANT 1



Date: 1.JAN.2020 05:46:48

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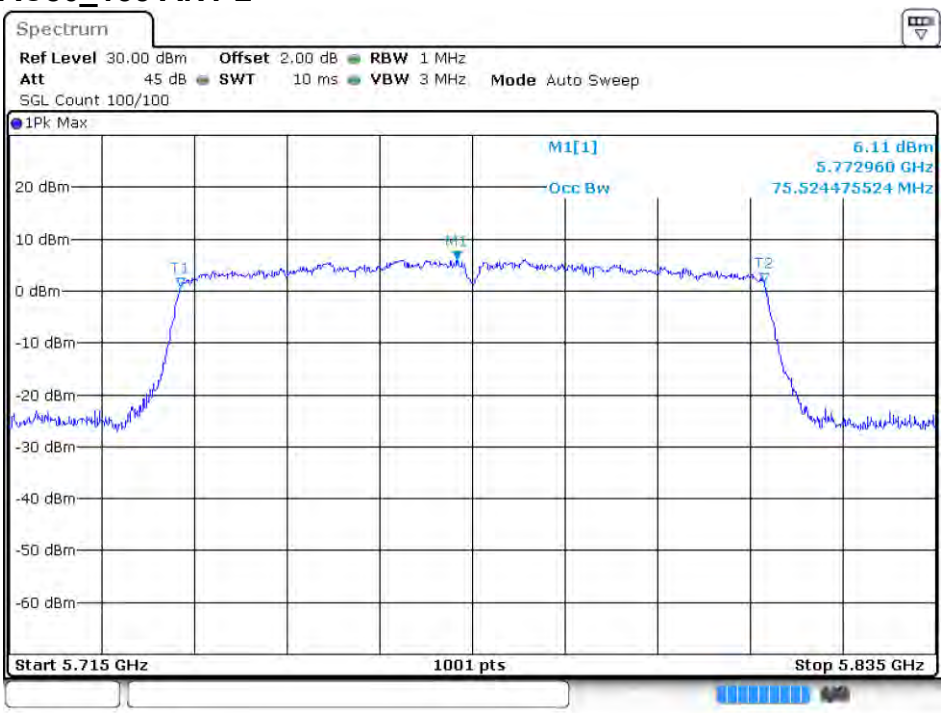
4.7.2.168 11AC80_155 ANT 2



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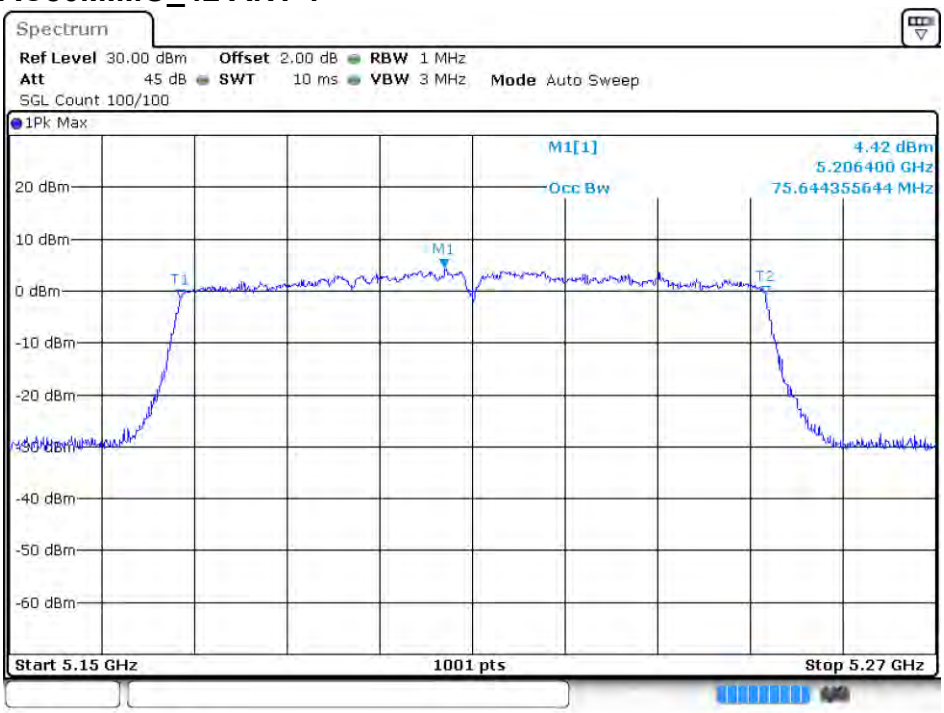
4.7.2.169 11AC80MIMO_42 ANT 1



Date: 3.JAN.2020 03:41:17

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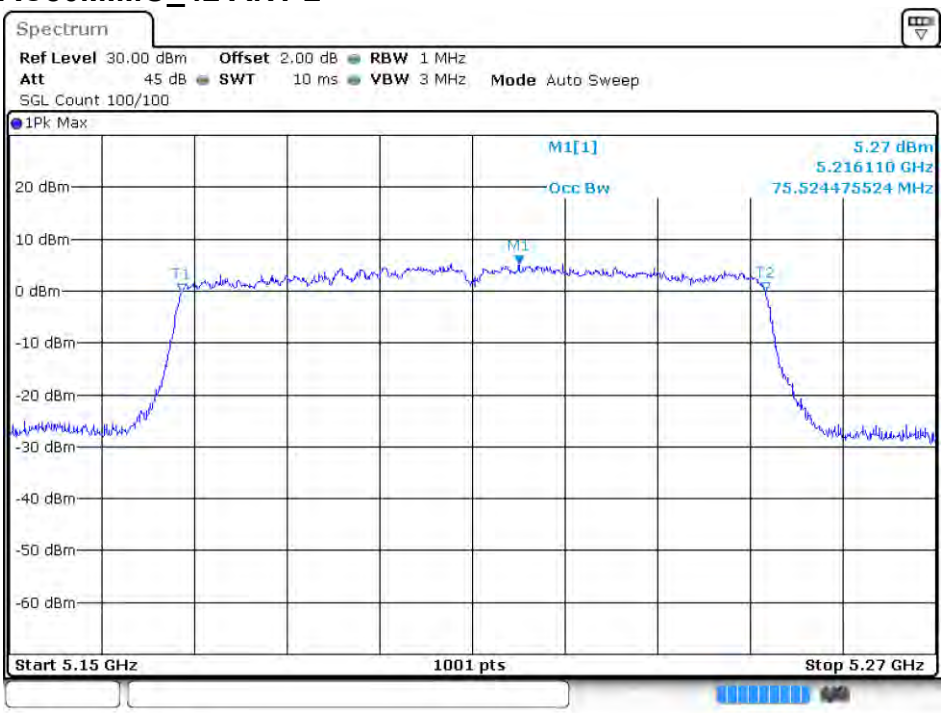
4.7.2.170 11AC80MIMO_42 ANT 2



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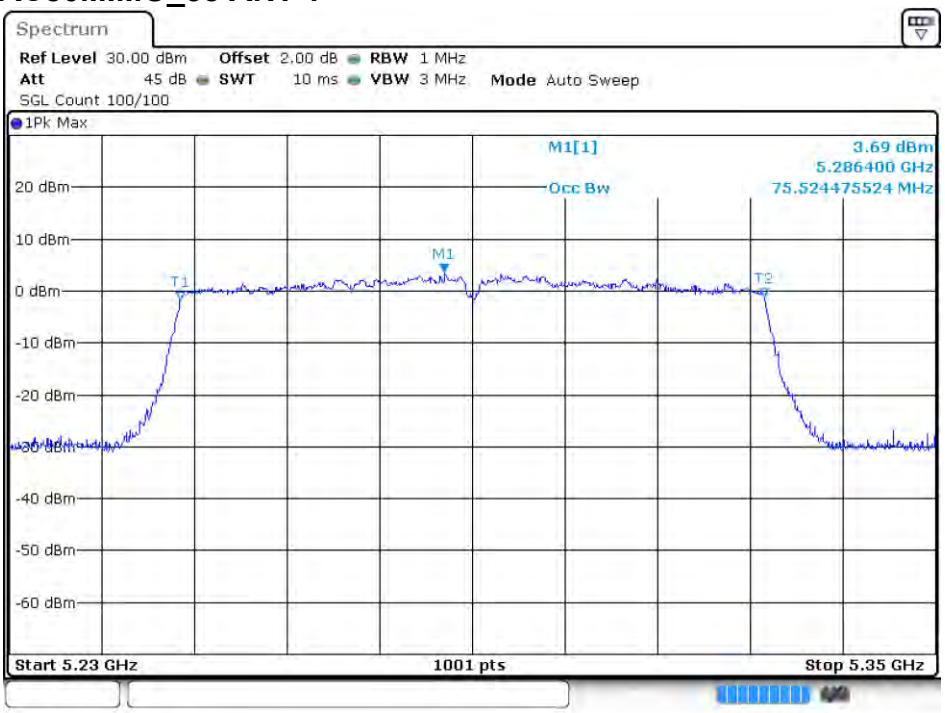
4.7.2.171 11AC80MIMO_58 ANT 1



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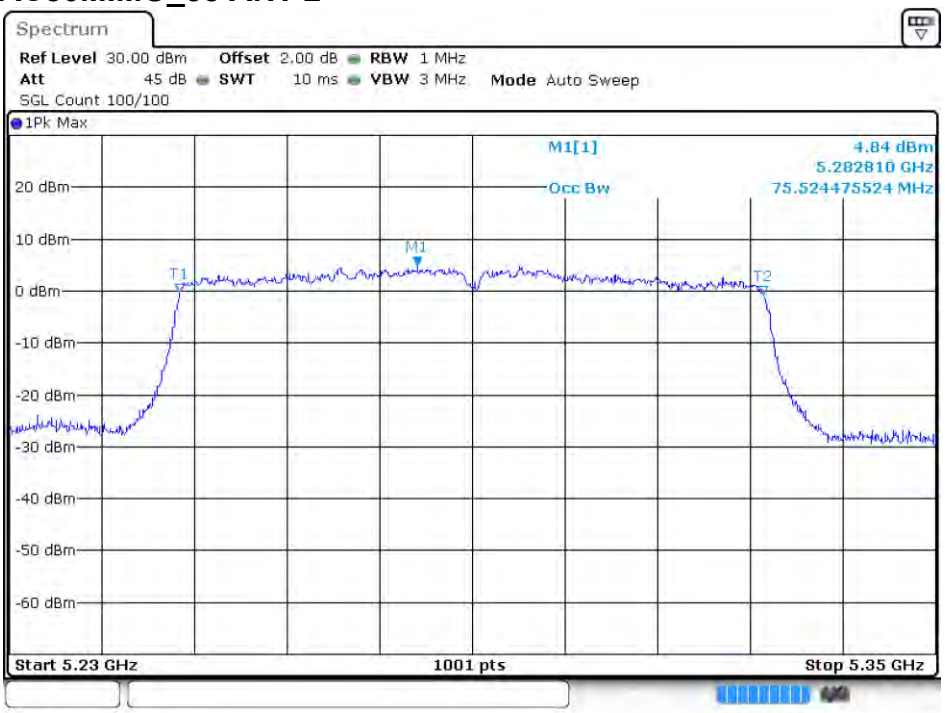
4.7.2.172 11AC80MIMO_58 ANT 2



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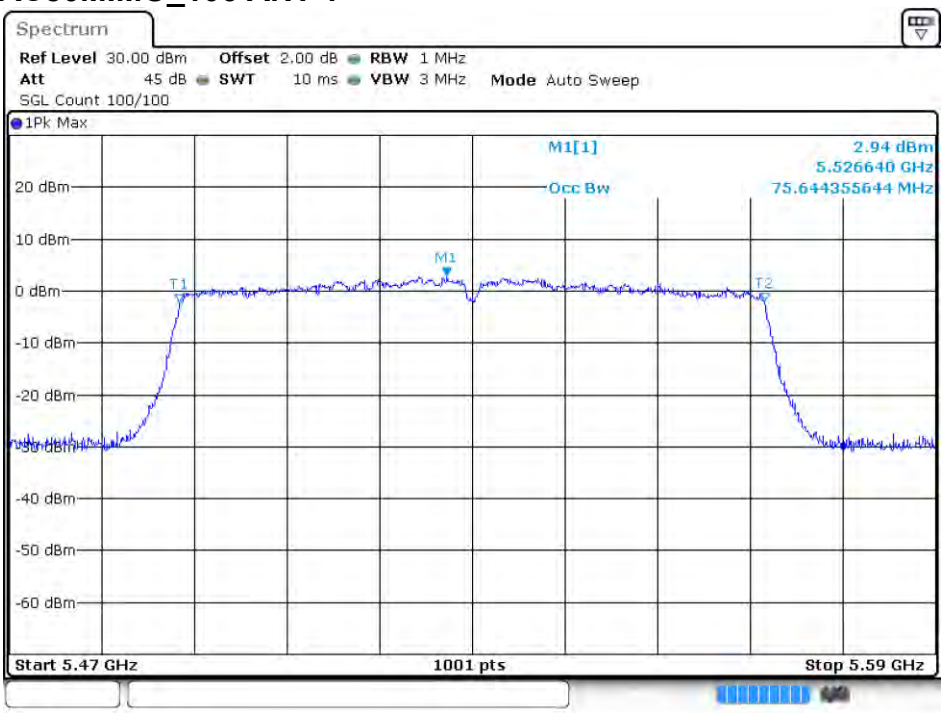
4.7.2.173 11AC80MIMO_106 ANT 1



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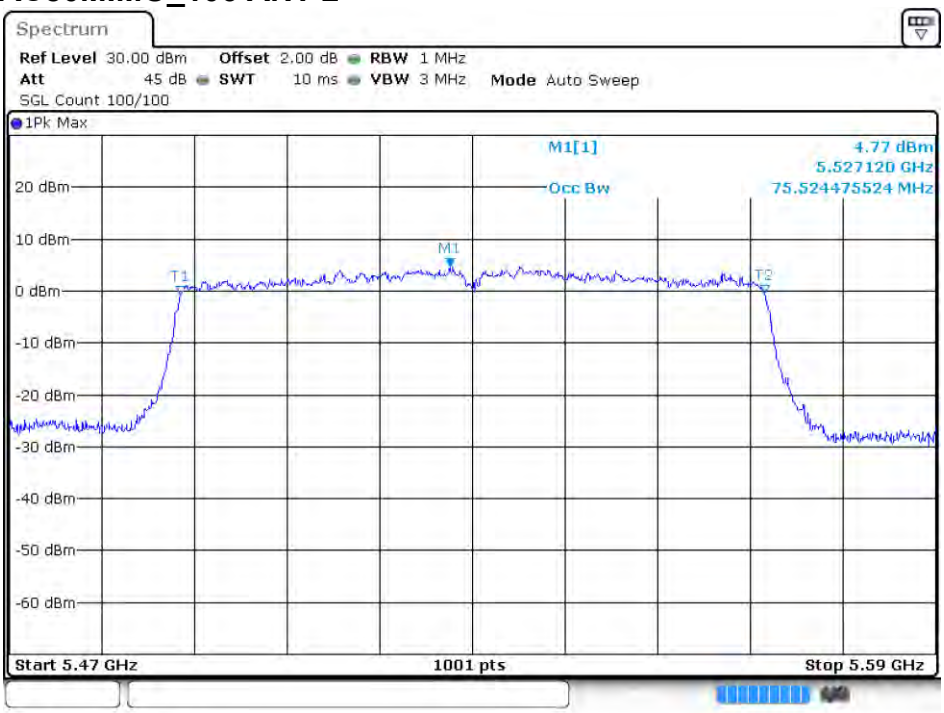
4.7.2.174 11AC80MIMO_106 ANT 2



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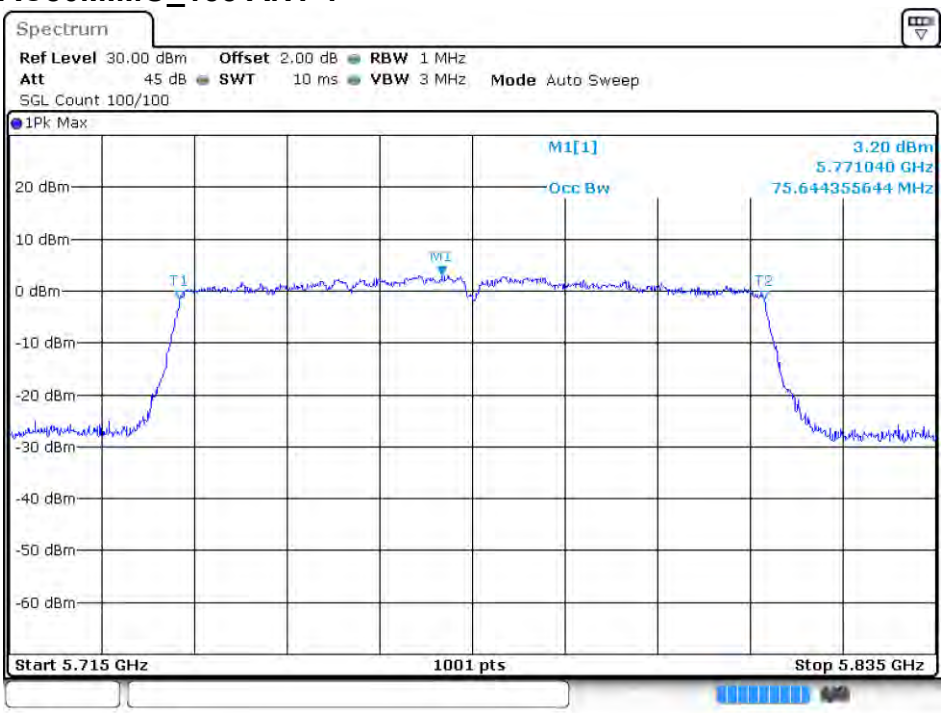
4.7.2.175 11AC80MIMO_155 ANT 1



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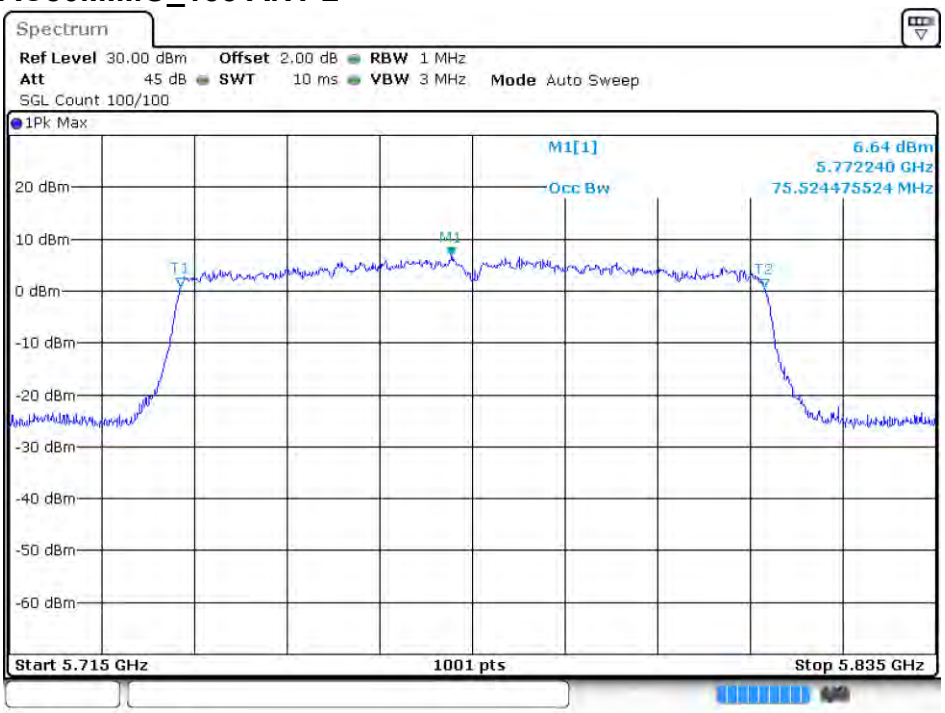
4.7.2.176 11AC80MIMO_155 ANT 2



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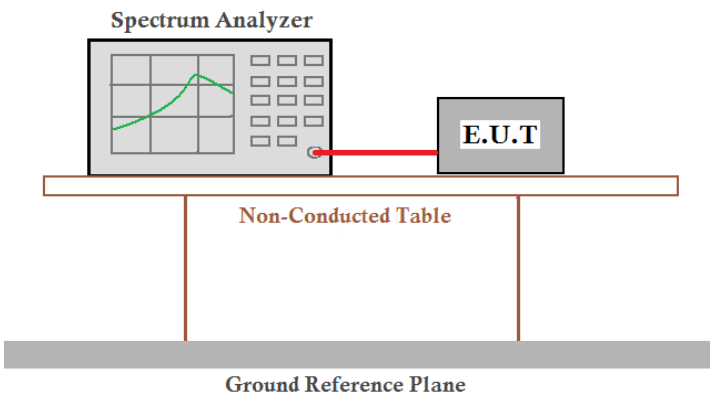
4.8 Power Spectral Density

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:	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	

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4.8.1 Test Results For Power Density

Test Mode	Test Channel	Frequency [MHz]	Meas. Level (Cond.)			Unit	Verdict
			ANT 1	ANT 2	SUM		
11A20	36	5180	3.86	3.18	---	dBm/MHz	PASS
	48	5240	3.65	3.91	---	dBm/MHz	PASS
	52	5260	3.55	3.94	---	dBm/MHz	PASS
	64	5320	3.52	3.04	---	dBm/MHz	PASS
	100	5500	3.39	3.79	---	dBm/MHz	PASS
	140	5700	3.43	3.78	---	dBm/MHz	PASS
	149	5745	-4.87	-3.79	---	dBm/500KHz	PASS
	165	5825	-5.09	-3.91	---	dBm/500KHz	PASS
11A20 CDD	36	5180	4.05	3.27	6.69	dBm/MHz	PASS
	48	5240	3.76	3.75	6.77	dBm/MHz	PASS
	52	5260	3.69	3.71	6.71	dBm/MHz	PASS
	64	5320	3.81	2.94	6.41	dBm/MHz	PASS
	100	5500	3.44	3.87	6.67	dBm/MHz	PASS
	140	5700	3.39	3.54	6.48	dBm/MHz	PASS
	149	5745	-4.99	-3.38	-1.10	dBm/500KHz	PASS
	165	5825	-4.86	-3.96	-1.38	dBm/500KHz	PASS
11N20	36	5180	3.20	2.35	---	dBm/MHz	PASS
	48	5240	3.10	3.18	---	dBm/MHz	PASS
	52	5260	2.89	2.99	---	dBm/MHz	PASS
	64	5320	3.22	2.22	---	dBm/MHz	PASS
	100	5500	2.83	2.71	---	dBm/MHz	PASS
	140	5700	1.10	0.97	---	dBm/MHz	PASS
	149	5745	-5.07	-4.32	---	dBm/500KHz	PASS
	165	5825	-4.71	-4.69	---	dBm/500KHz	PASS
11N20 MIMO	36	5180	3.18	2.21	5.73	dBm/MHz	PASS
	48	5240	2.77	3.18	5.99	dBm/MHz	PASS
	52	5260	2.86	3.23	6.06	dBm/MHz	PASS
	64	5320	2.79	2.04	5.44	dBm/MHz	PASS
	100	5500	2.69	3.08	5.90	dBm/MHz	PASS
	140	5700	0.71	1.34	4.05	dBm/MHz	PASS
	149	5745	-5.82	-4.03	-1.82	dBm/500KHz	PASS
	165	5825	-5.63	-4.38	-1.95	dBm/500KHz	PASS
11N40	38	5190	-1.43	-1.85	---	dBm/MHz	PASS
	46	5230	0.65	1.27	---	dBm/MHz	PASS
	54	5270	0.74	1.24	---	dBm/MHz	PASS
	62	5310	-2.74	-2.79	---	dBm/MHz	PASS
	102	5510	-4.54	-2.80	---	dBm/MHz	PASS
	134	5670	0.73	0.91	---	dBm/MHz	PASS
	151	5755	-9.58	-7.83	---	dBm/500KHz	PASS
	159	5795	-9.51	-7.22	---	dBm/500KHz	PASS
11N40	38	5190	-2.08	-3.52	0.27	dBm/MHz	PASS

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MIMO	46	5230	-0.29	0.52	3.14	dBm/MHz	PASS
	54	5270	-0.12	-0.33	2.79	dBm/MHz	PASS
	62	5310	-3.25	-3.84	-0.52	dBm/MHz	PASS
	102	5510	-4.98	-4.67	-1.81	dBm/MHz	PASS
	134	5670	-0.36	0.65	3.18	dBm/MHz	PASS
	151	5755	-9.21	-7.5	-5.26	dBm/500KHz	PASS
	159	5795	-9.47	-7.53	-5.38	dBm/500KHz	PASS
11AC20	36	5180	2.28	1.52	---	dBm/MHz	PASS
	48	5240	2.10	2.41	---	dBm/MHz	PASS
	52	5260	2.25	2.33	---	dBm/MHz	PASS
	64	5320	1.97	1.70	---	dBm/MHz	PASS
	100	5500	1.95	2.44	---	dBm/MHz	PASS
	140	5700	1.64	1.62	---	dBm/MHz	PASS
	149	5745	-5.92	-4.66	---	dBm/500KHz	PASS
	165	5825	-5.40	-4.31	---	dBm/500KHz	PASS
11AC20 MIMO	36	5180	2.64	1.84	5.27	dBm/MHz	PASS
	48	5240	2.58	2.83	5.72	dBm/MHz	PASS
	52	5260	2.43	2.81	5.63	dBm/MHz	PASS
	64	5320	2.47	1.47	5.01	dBm/MHz	PASS
	100	5500	2.20	2.10	5.16	dBm/MHz	PASS
	140	5700	1.71	2.04	4.89	dBm/MHz	PASS
	149	5745	-5.80	-4.01	-1.8	dBm/500KHz	PASS
	165	5825	-5.33	-4.44	-1.85	dBm/500KHz	PASS
11AC40	38	5190	-2.09	-1.94	---	dBm/MHz	PASS
	46	5230	0.58	1.16	---	dBm/MHz	PASS
	54	5270	0.25	0.79	---	dBm/MHz	PASS
	62	5310	-4.11	-3.82	---	dBm/MHz	PASS
	102	5510	-5.12	-4.48	---	dBm/MHz	PASS
	134	5670	0.19	0.75	---	dBm/MHz	PASS
	151	5755	-9.49	-7.78	---	dBm/500KHz	PASS
	159	5795	-9.45	-7.27	---	dBm/500KHz	PASS
11AC40 MIMO	38	5190	-2.68	-3.21	0.07	dBm/MHz	PASS
	46	5230	0.09	0.62	3.37	dBm/MHz	PASS
	54	5270	-0.07	0.04	3.00	dBm/MHz	PASS
	62	5310	-4.09	-4.17	-1.12	dBm/MHz	PASS
	102	5510	-5.43	-4.35	-1.85	dBm/MHz	PASS
	134	5670	-0.31	-0.46	2.63	dBm/MHz	PASS
	151	5755	-9.34	-7.43	-5.27	dBm/500KHz	PASS
	159	5795	-9.20	-7.41	-5.20	dBm/500KHz	PASS
11AC80	42	5210	-5.22	-5.68	---	dBm/MHz	PASS
	58	5290	-6.43	-5.90	---	dBm/MHz	PASS
	106	5530	-6.76	-6.38	---	dBm/MHz	PASS
	155	5775	-12.68	-10.46	---	dBm/500KHz	PASS
11AC80 MIMO	42	5210	-5.24	-5.97	-2.58	dBm/MHz	PASS
	58	5290	-6.55	-6.70	-3.61	dBm/MHz	PASS

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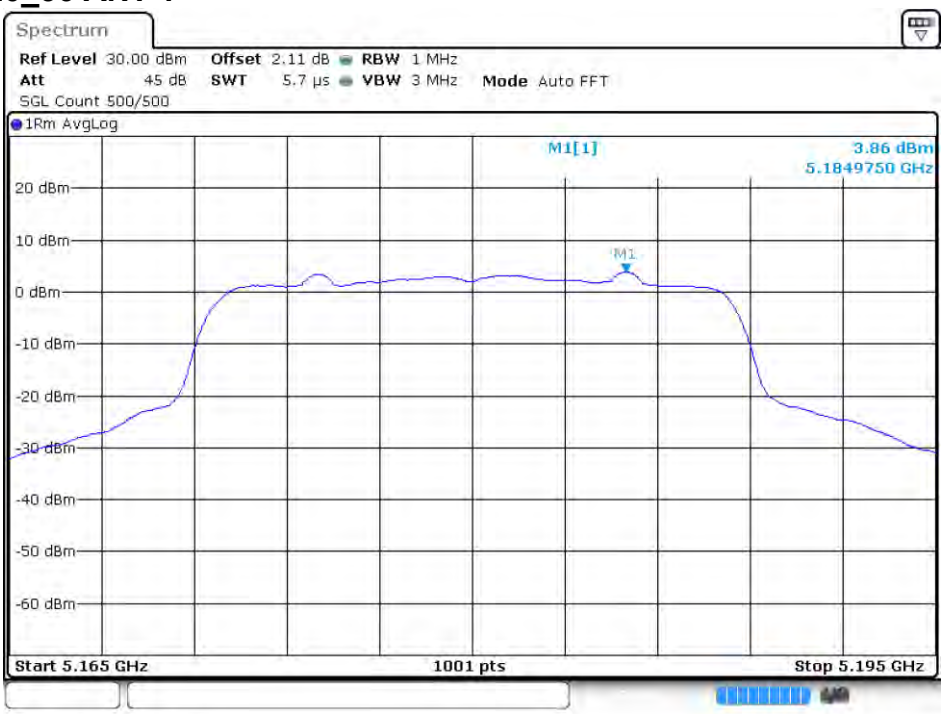
	106	5530	-6.88	-6.41	-3.63	dBm/MHz	PASS
	155	5775	-11.67	-10.29	-7.92	dBm/500KHz	PASS

4.8.2 Test plots For Power Density

4.8.2.1 11A20_36 ANT 1



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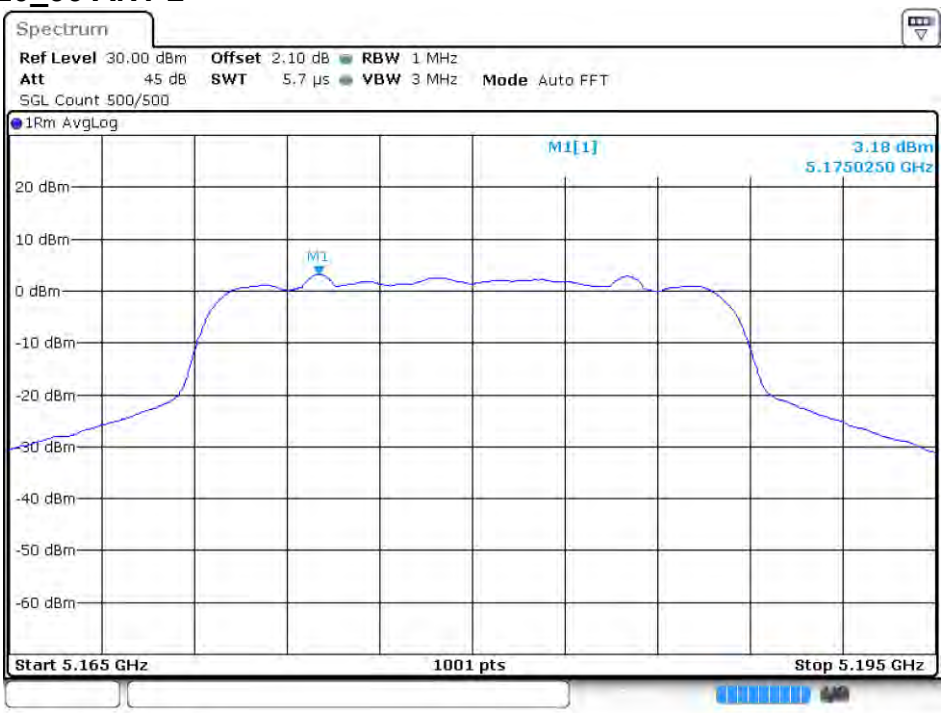
4.8.2.2 11A20_36 ANT 2



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4.8.2.3 11A20_48 ANT 1

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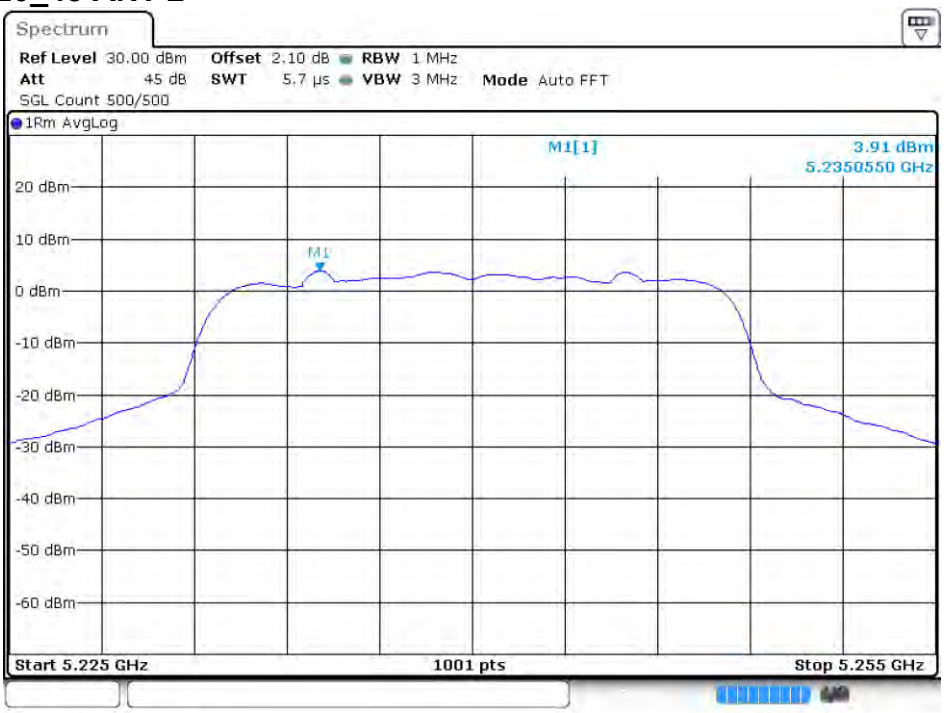
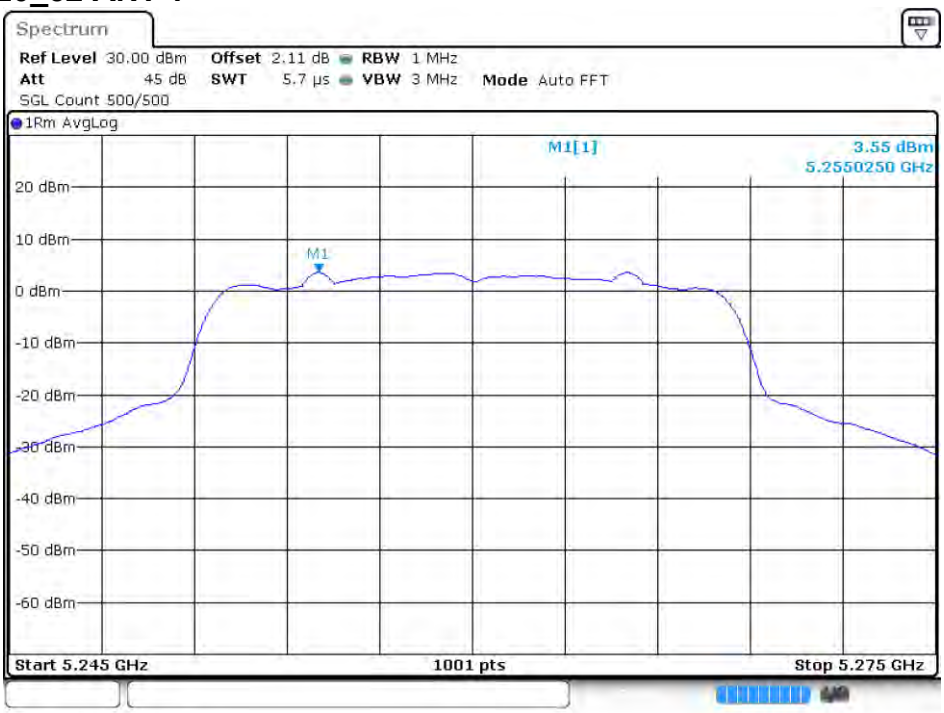
4.8.2.4 11A20_48 ANT 2



Date: 16.JAN.2020 12:13:49

4.8.2.5 11A20_52 ANT 1



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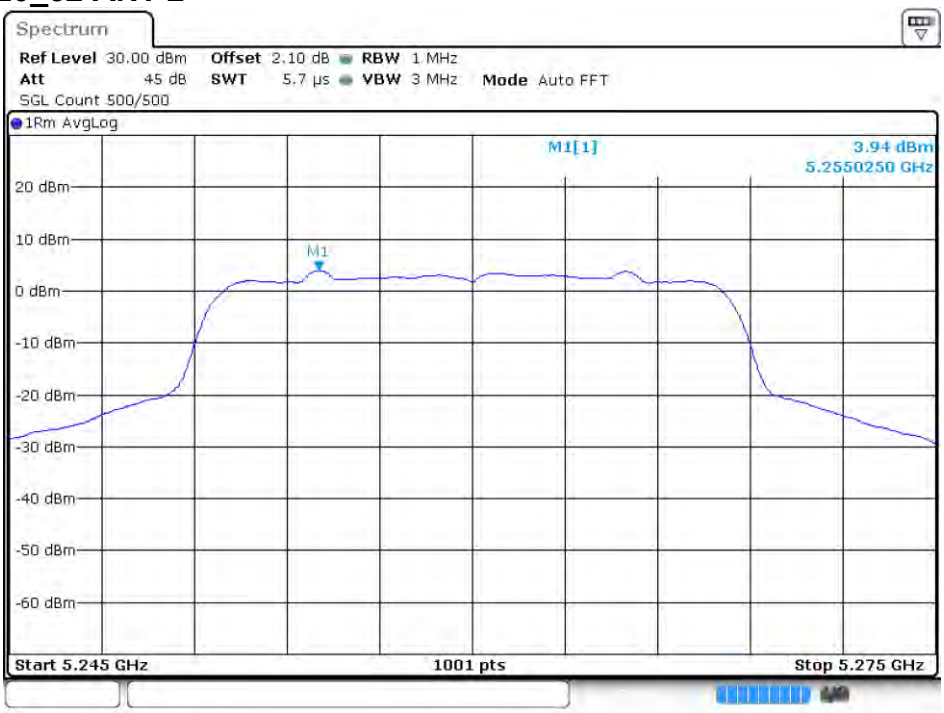
4.8.2.6 11A20_52 ANT 2



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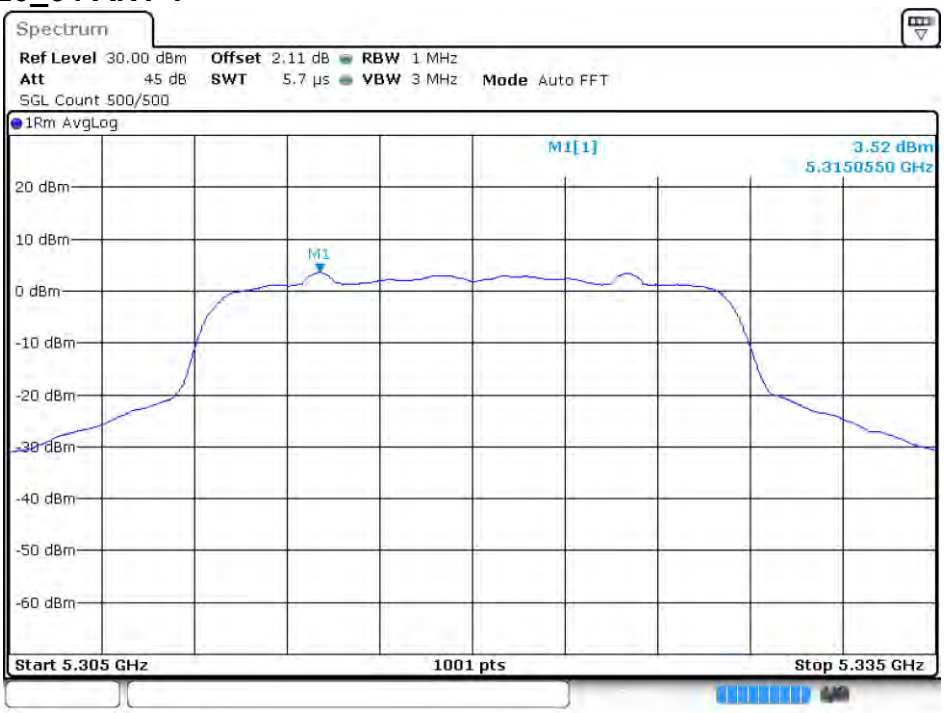
4.8.2.7 11A20_64 ANT 1



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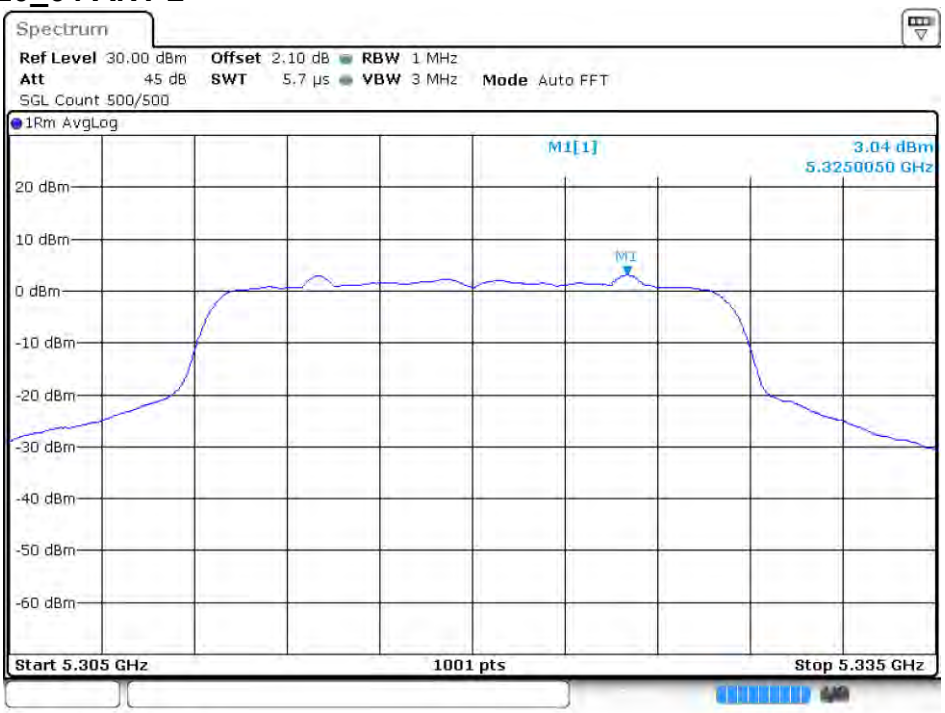
4.8.2.8 11A20_64 ANT 2



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4.8.2.9 11A20_100 ANT 1

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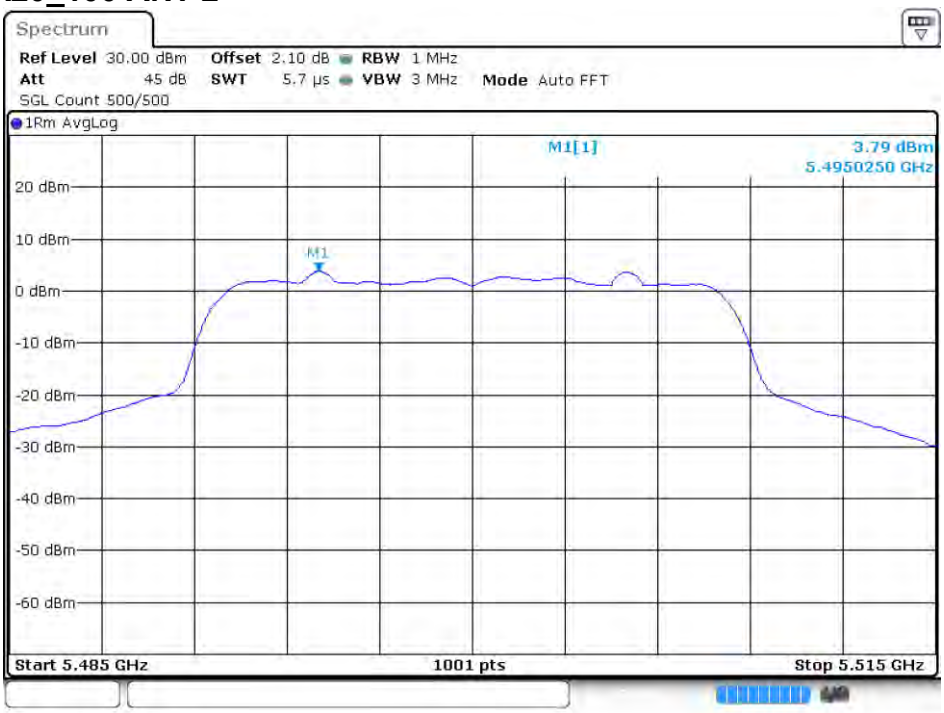
4.8.2.10 11A20_100 ANT 2



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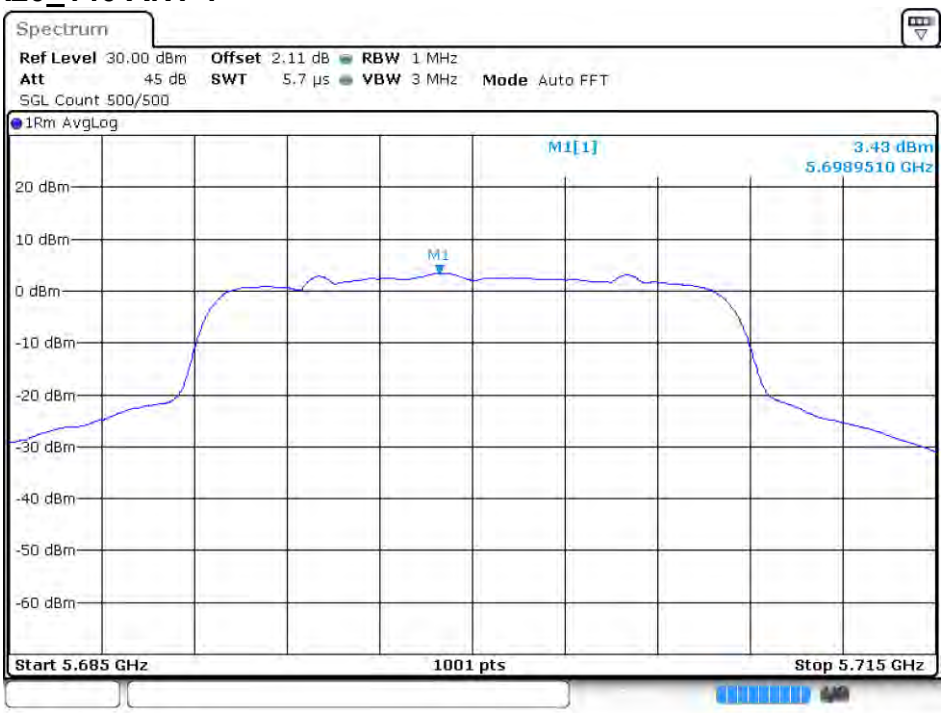
4.8.2.11 11A20_140 ANT 1



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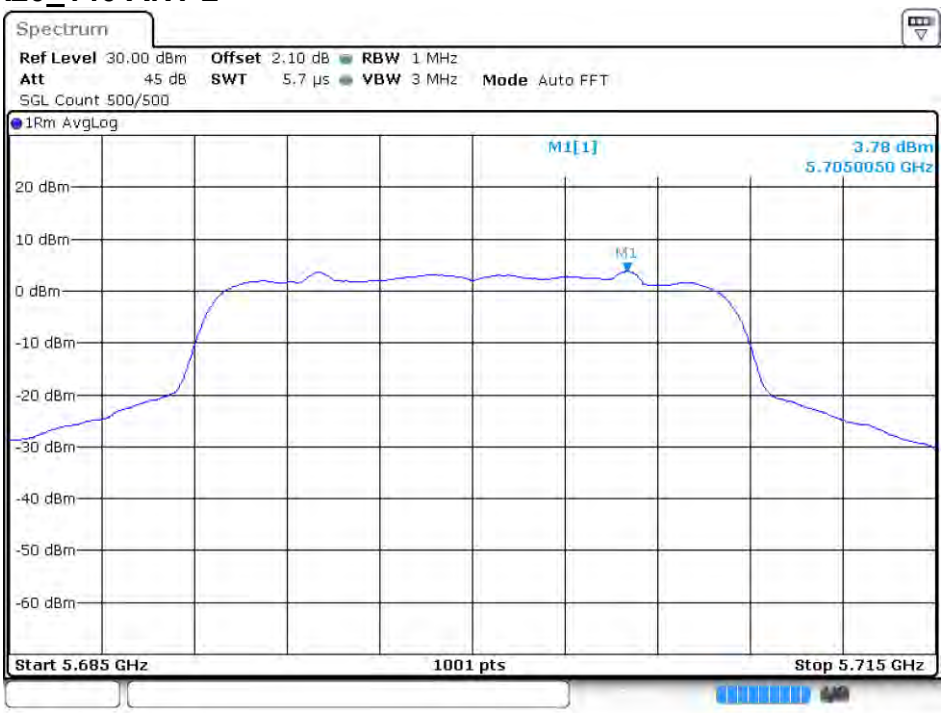
4.8.2.12 11A20_140 ANT 2



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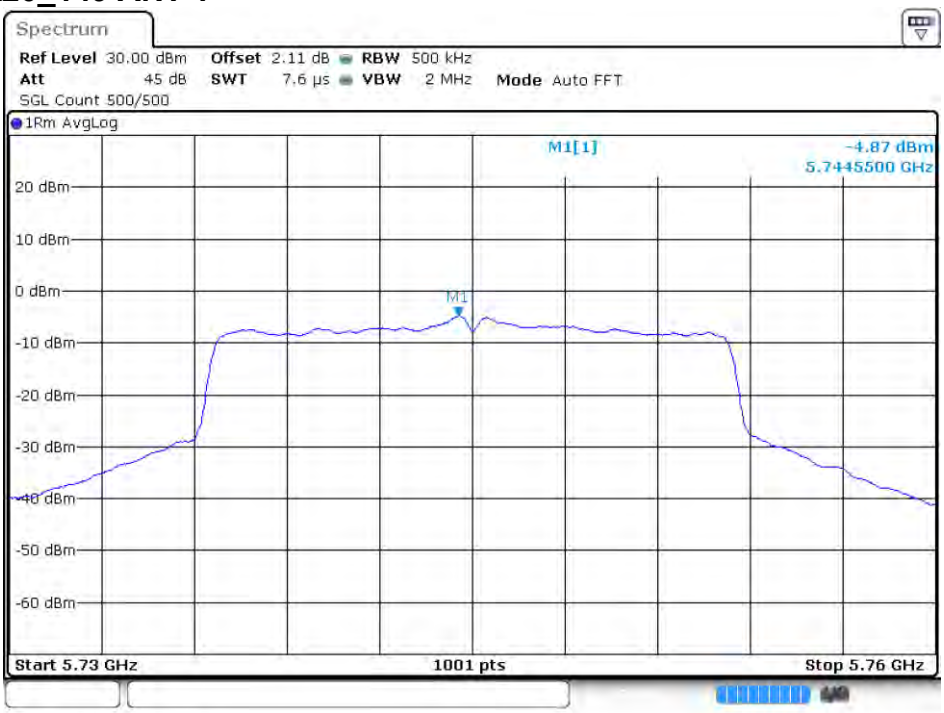

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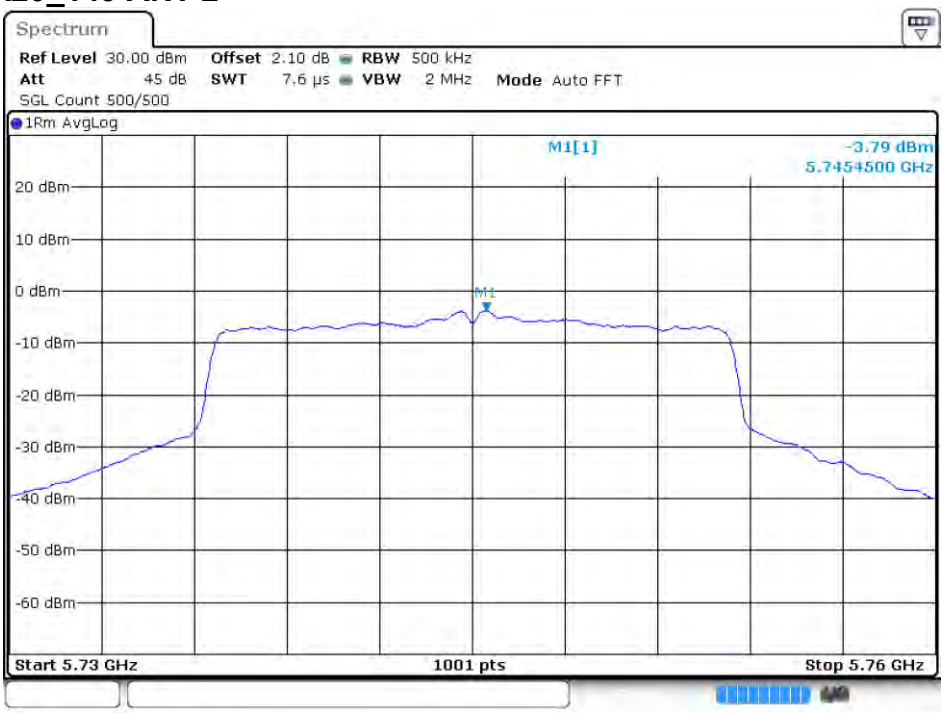
4.8.2.14 11A20_149 ANT 2



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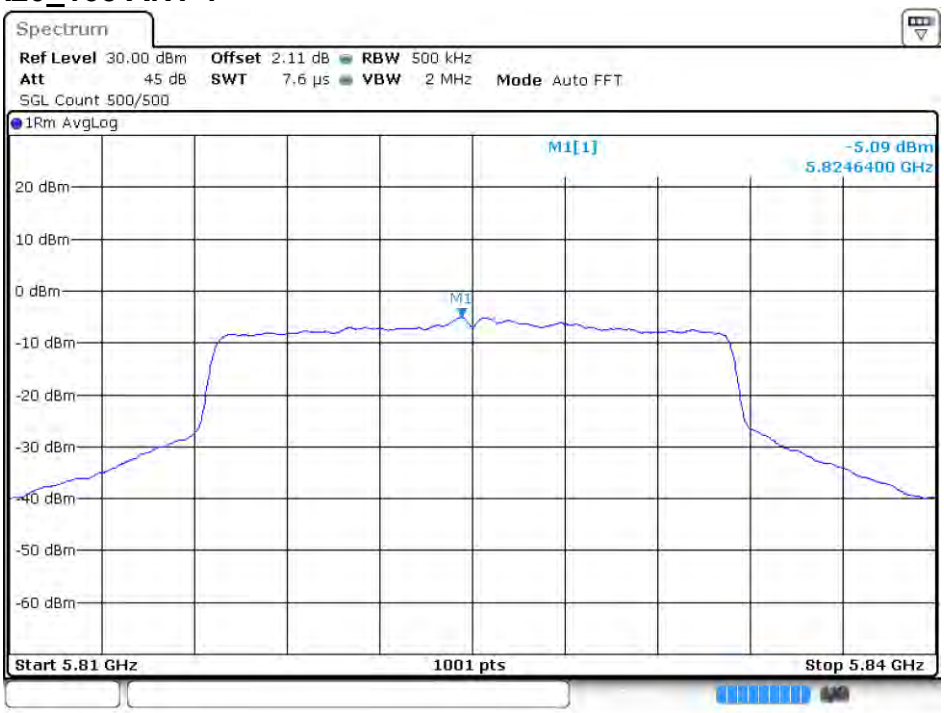
4.8.2.15 11A20_165 ANT 1



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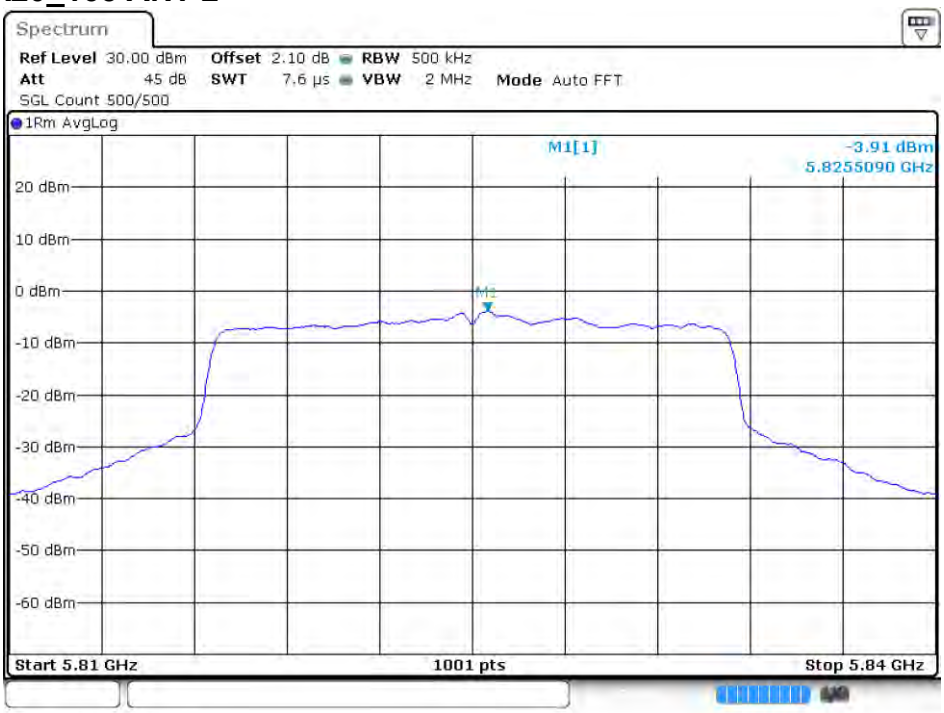
4.8.2.16 11A20_165 ANT 2



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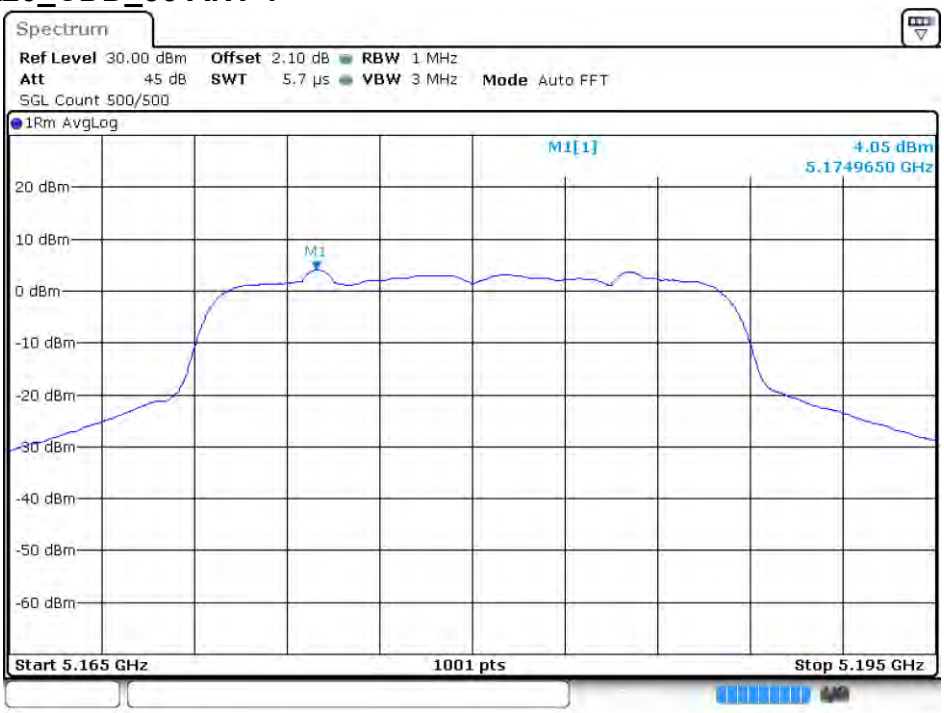
4.8.2.17 11A20_CDD_36 ANT 1



Date: 17 JAN.2020 01:58:24

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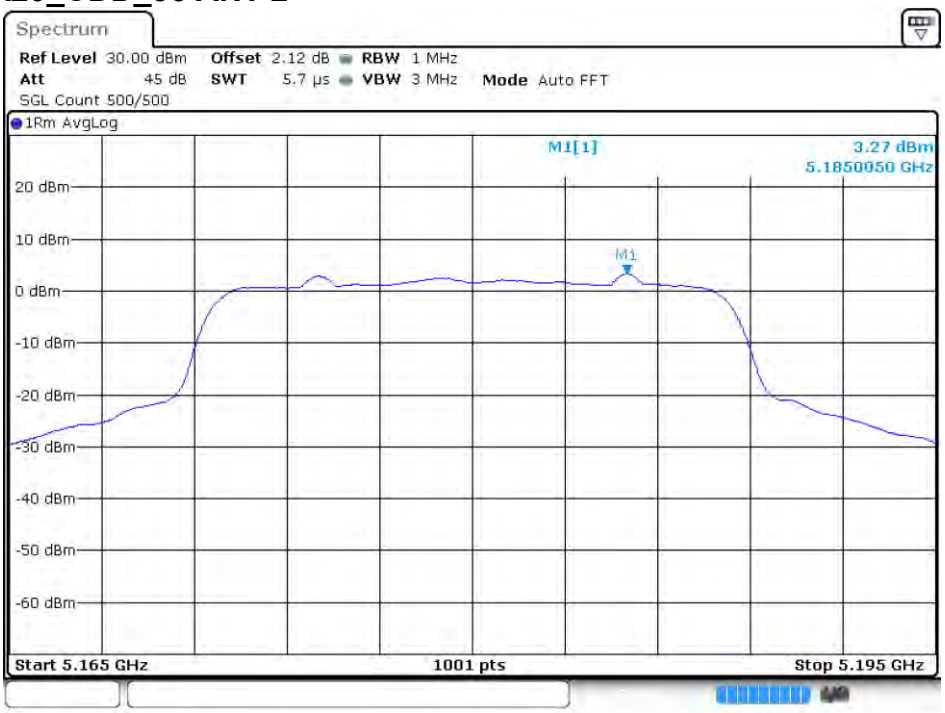
4.8.2.18 11A20_CDD_36 ANT 2



Date: 17 JAN.2020 03:12:28

4.8.2.19 11A20_CDD_48 ANT 1

Date: 17 JAN.2020 01:59:18

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4.8.2.20 11A20_CDD_48 ANT 2

Date: 17 JAN.2020 03:13:19

4.8.2.21 11A20_CDD_52 ANT 1

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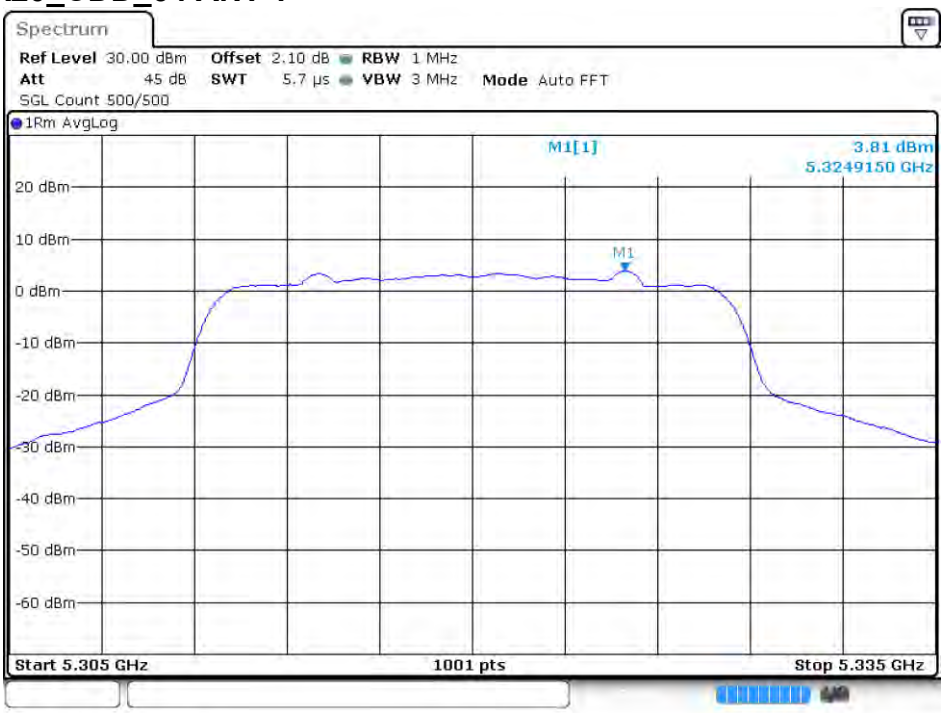
4.8.2.22 11A20_CDD_52 ANT 2

Date: 17 JAN.2020 03:14:51

4.8.2.23 11A20_CDD_64 ANT 1



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4.8.2.24 11A20_CDD_64 ANT 2

Date: 17 JAN.2020 03:15:31

4.8.2.25 11A20_CDD_100 ANT 1

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4.8.2.26 11A20_CDD_100 ANT 2

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4.8.2.27 11A20_CDD_140 ANT 1

Date: 17 JAN.2020 02:04:11

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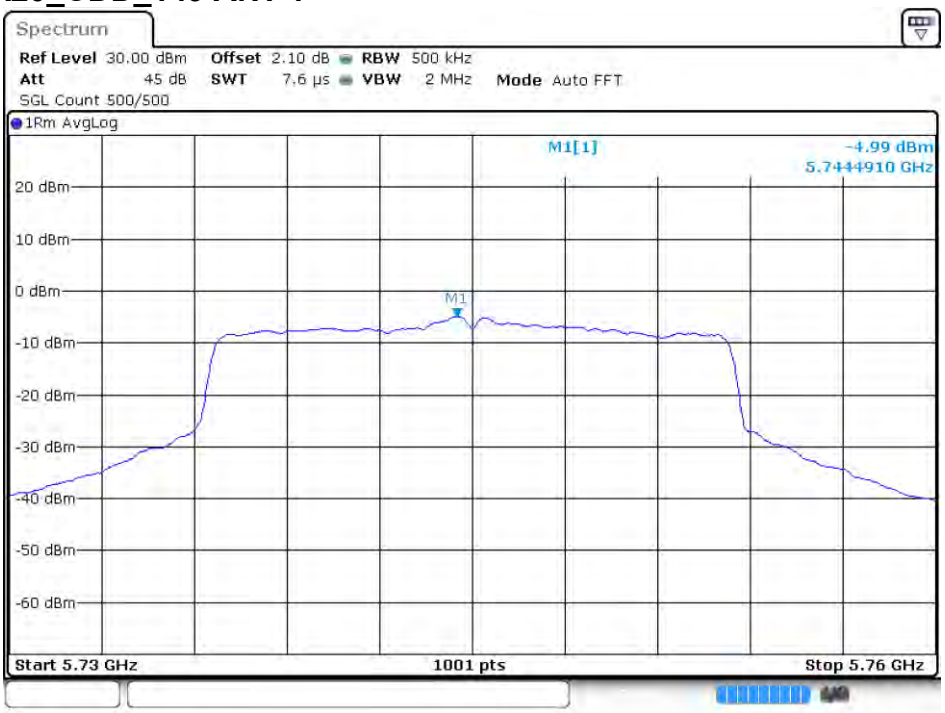
4.8.2.29 11A20_CDD_149 ANT 1



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