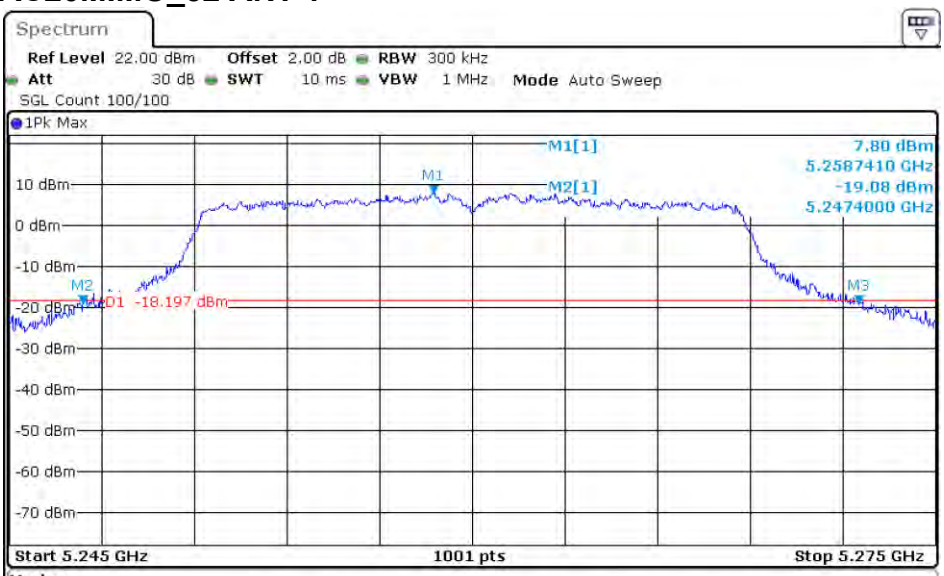
4.5.1.89 11AC20MIMO_52 ANT 1

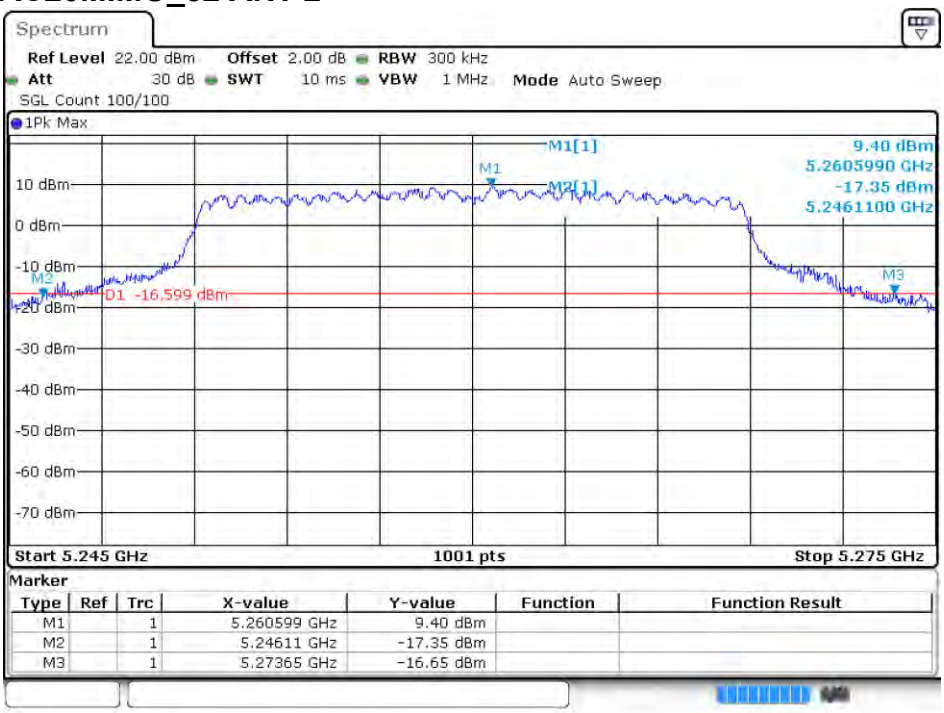


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.258741 GHz	7.80 dBm		
M2		1	5.2474 GHz	-19.08 dBm		
M3		1	5.27251 GHz	-19.25 dBm		

Date: 1.JAN.2020 07:49:07

4.5.1.90 11AC20MIMO_52 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.260599 GHz	9.40 dBm		
M2		1	5.24611 GHz	-17.35 dBm		
M3		1	5.27365 GHz	-16.65 dBm		

Date: 3.JAN.2020 01:06:02

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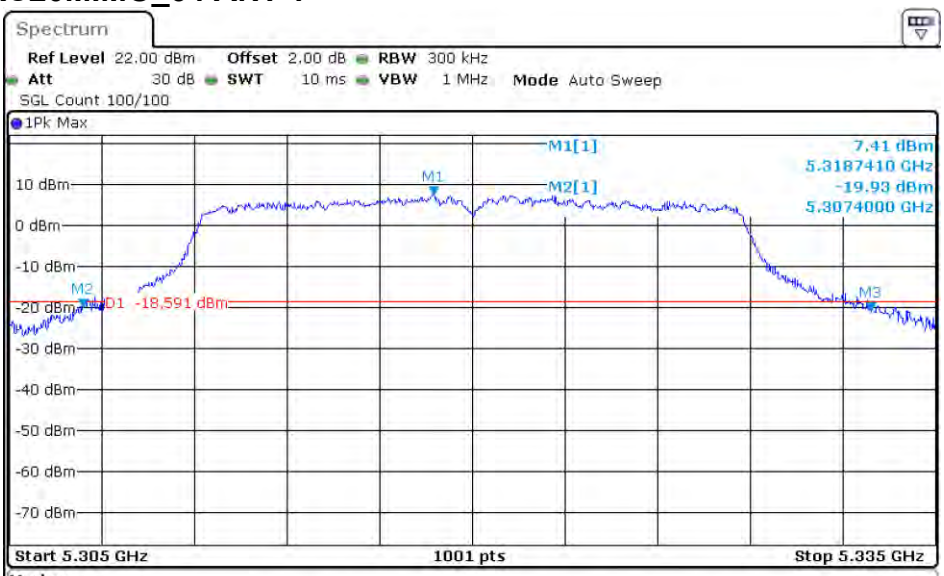
4.5.1.91 11AC20MIMO_64 ANT 1

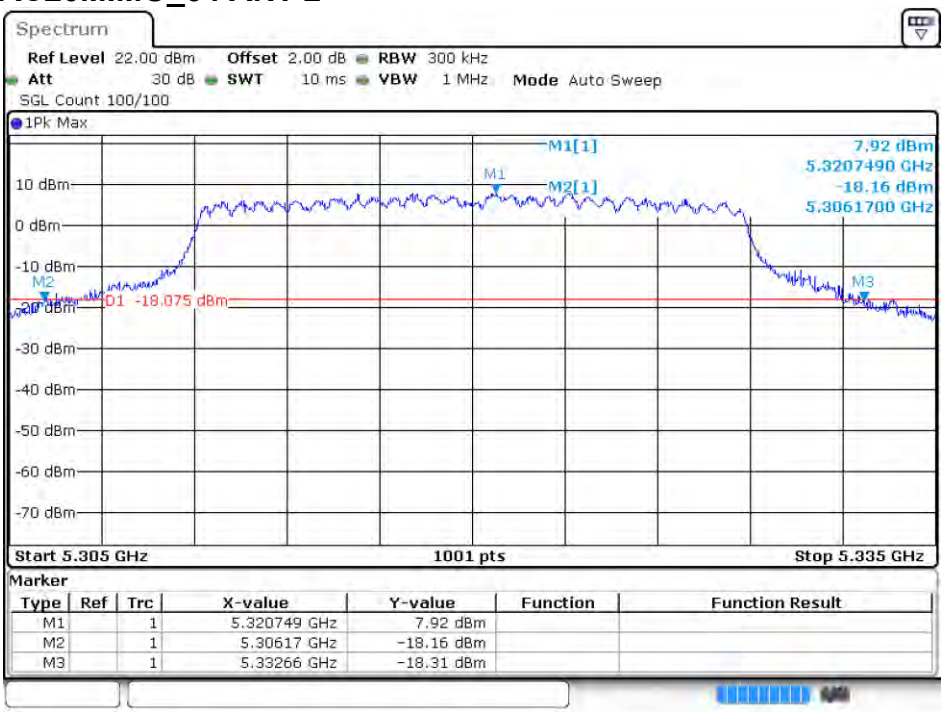


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.318741 GHz	7.41 dBm		
M2		1	5.3074 GHz	-19.93 dBm		
M3		1	5.3329 GHz	-20.80 dBm		

Date: 1.JAN.2020 07:50:12

4.5.1.92 11AC20MIMO_64 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.320749 GHz	7.92 dBm		
M2		1	5.30617 GHz	-18.16 dBm		
M3		1	5.33266 GHz	-18.31 dBm		

Date: 3.JAN.2020 01:06:54

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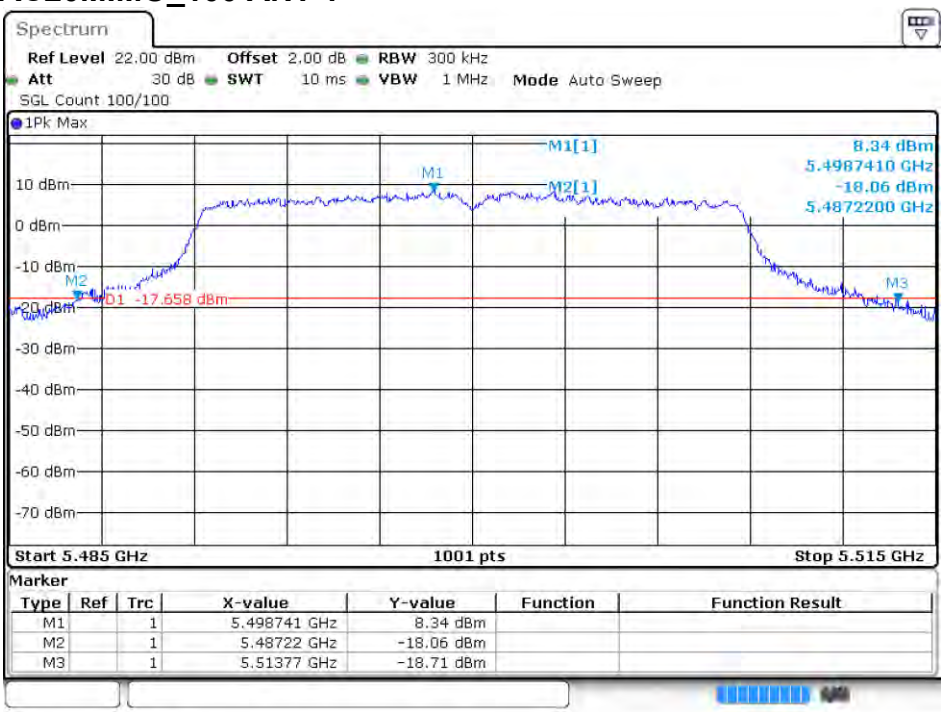
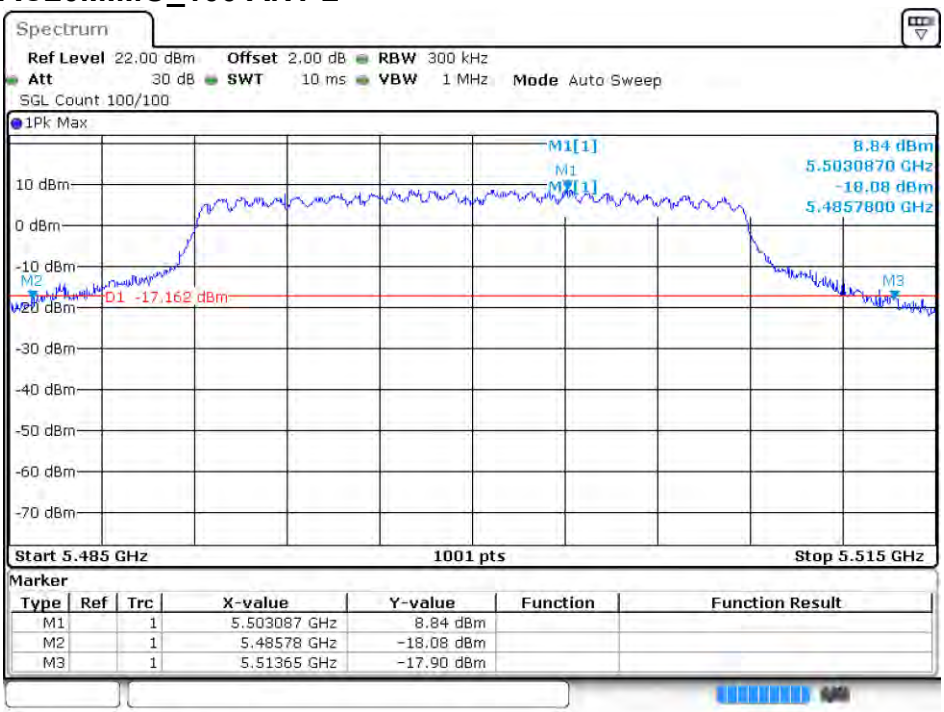
4.5.1.93 11AC20MIMO_100 ANT 1



Date: 1.JAN.2020 07:51:35

4.5.1.94 11AC20MIMO_100 ANT 2



Date: 3.JAN.2020 01:10:29

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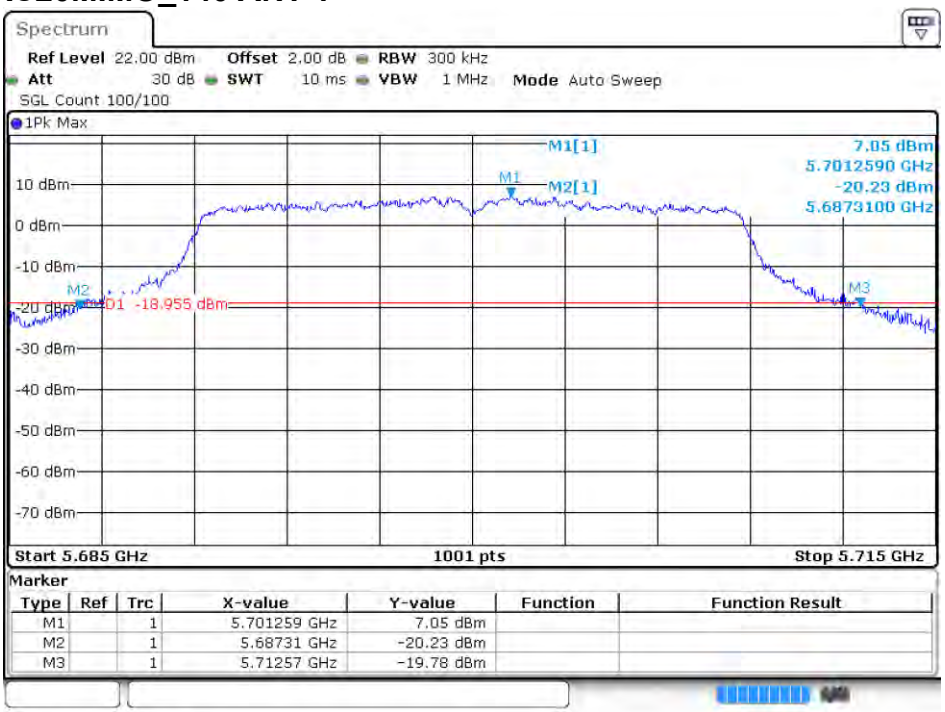
4.5.1.95 11AC20MIMO_140 ANT 1

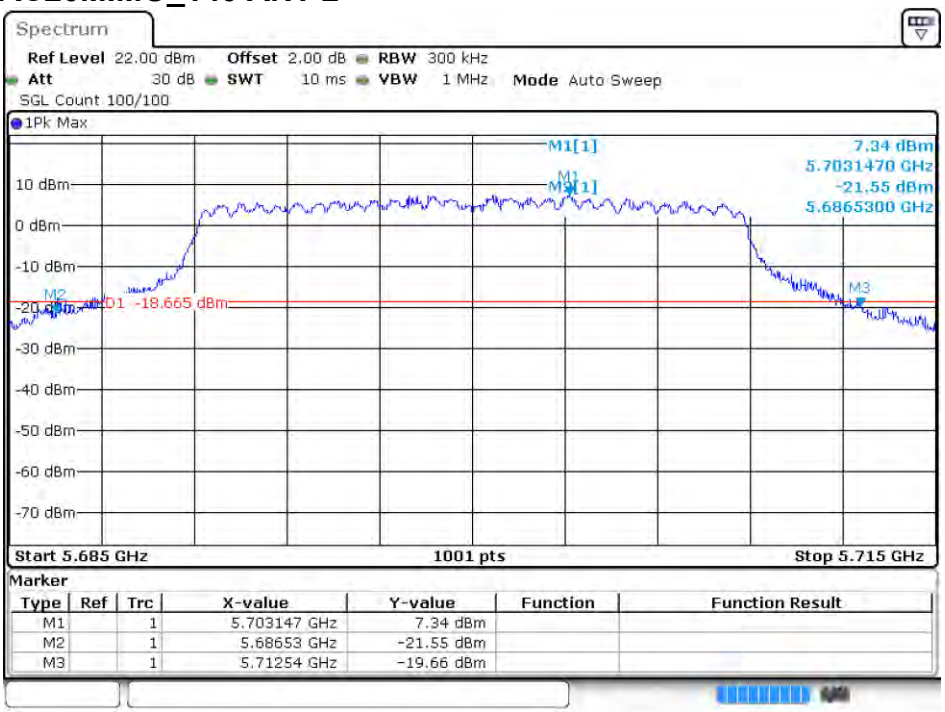


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.701259 GHz	7.05 dBm		
M2		1	5.68731 GHz	-20.23 dBm		
M3		1	5.71257 GHz	-19.78 dBm		

Date: 1.JAN.2020 07:53:01

4.5.1.96 11AC20MIMO_140 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.703147 GHz	7.34 dBm		
M2		1	5.68653 GHz	-21.55 dBm		
M3		1	5.71254 GHz	-19.66 dBm		

Date: 3.JAN.2020 01:12:03

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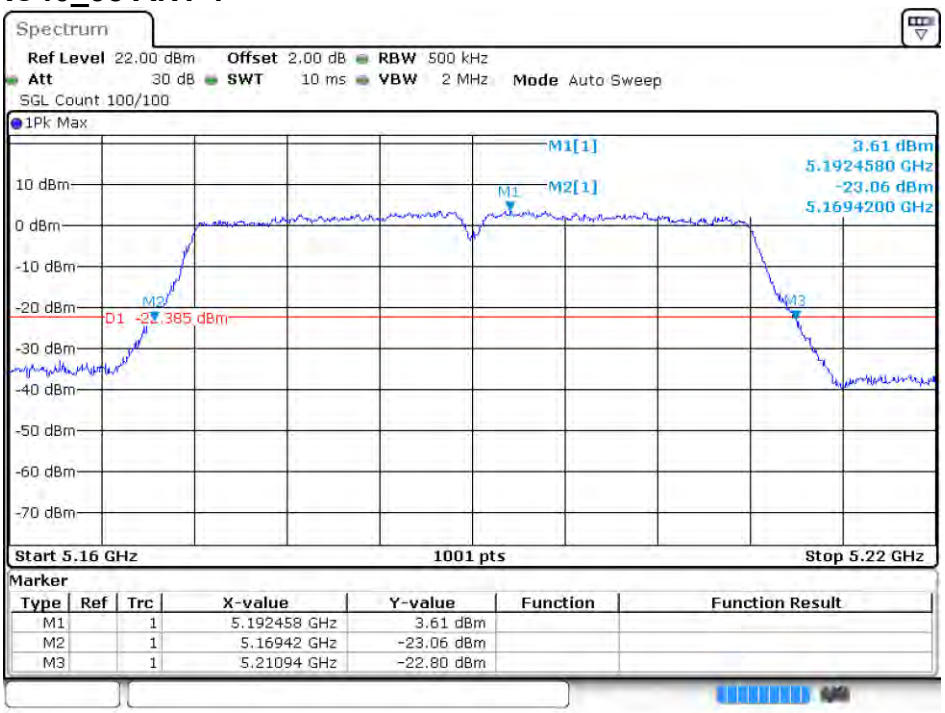
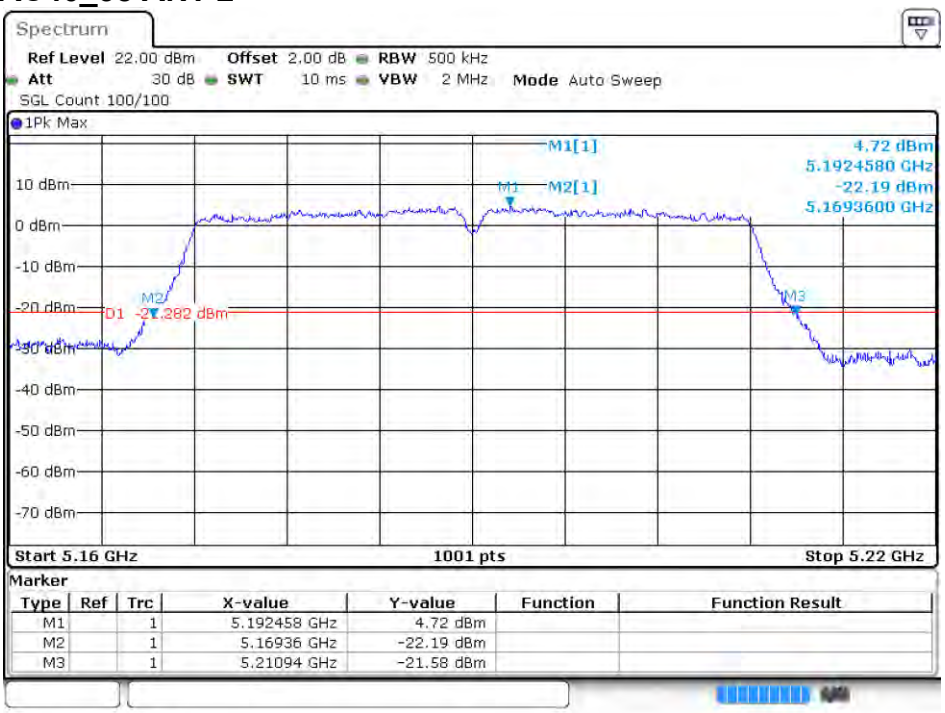
4.5.1.97 11AC40_38 ANT 1



Date: 1.JAN.2020 05:14:37

4.5.1.98 11AC40_38 ANT 2



Date: 1.JAN.2020 06:13:49

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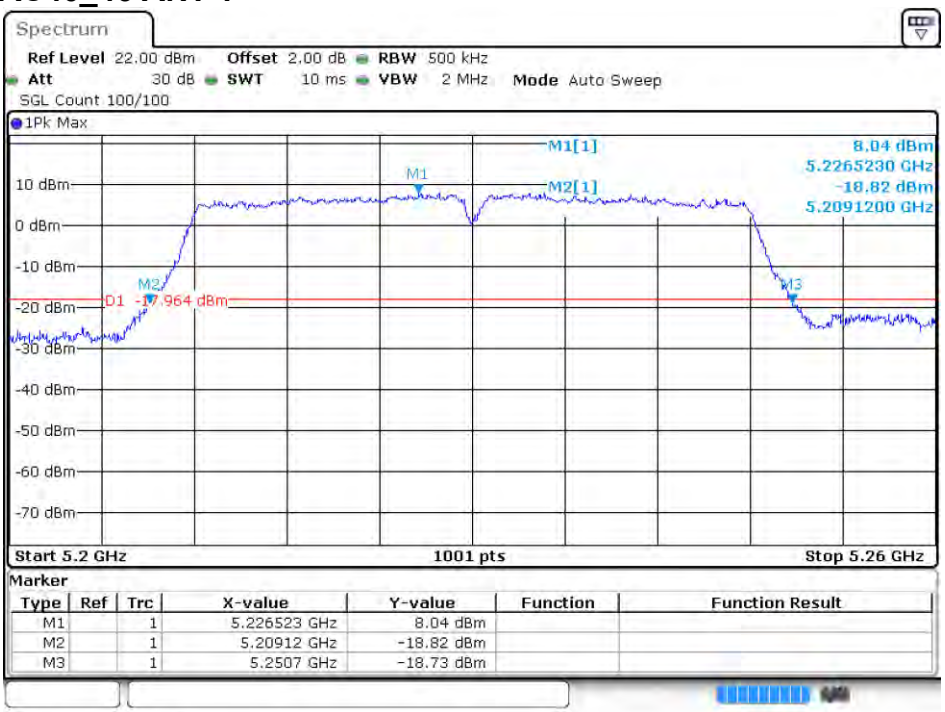
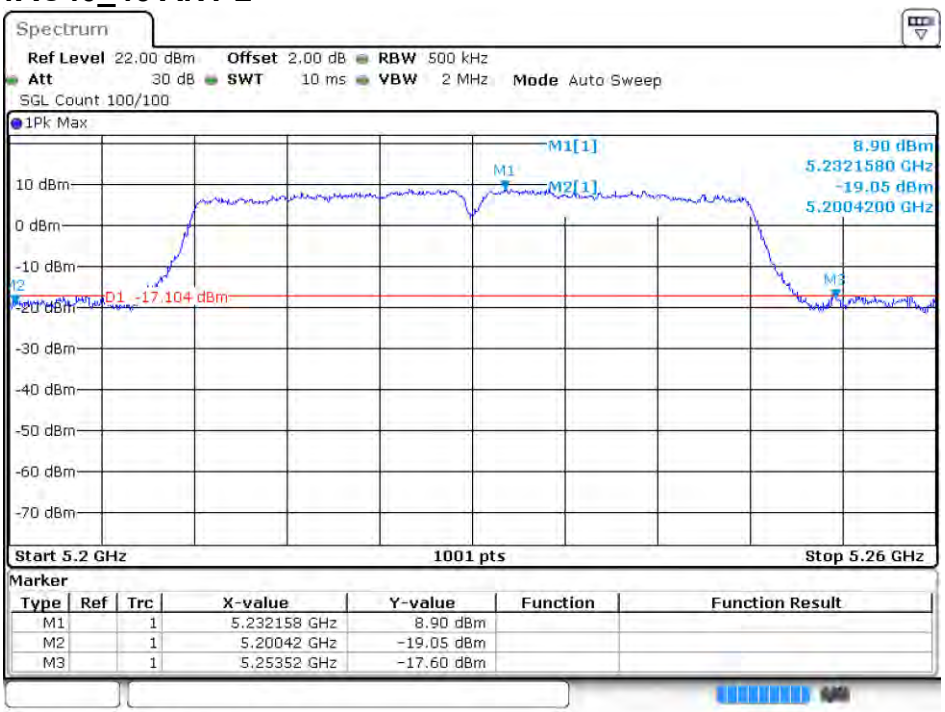
4.5.1.99 11AC40_46 ANT 1



Date: 1.JAN.2020 05:15:39

4.5.1.100 11AC40_46 ANT 2



Date: 1.JAN.2020 06:15:56

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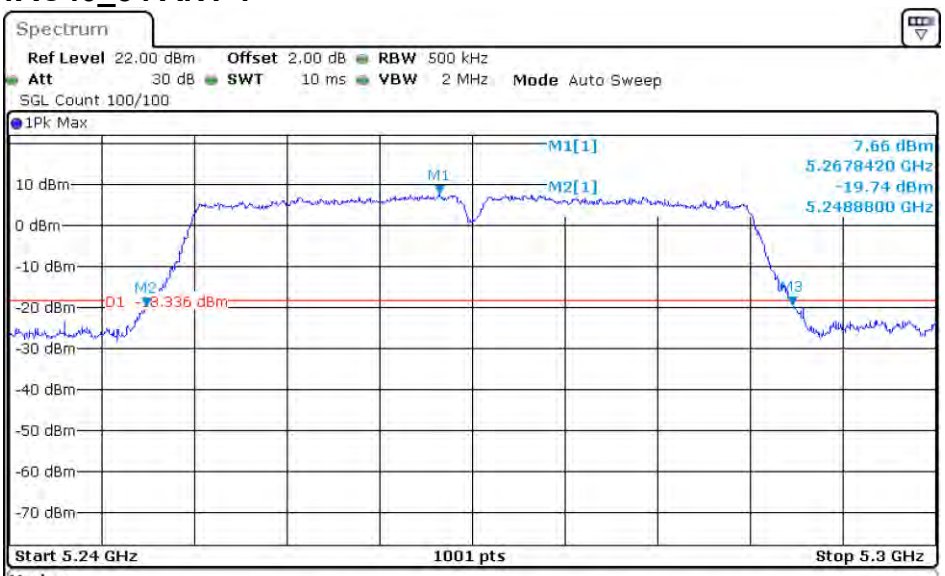
4.5.1.101 11AC40_54 ANT 1

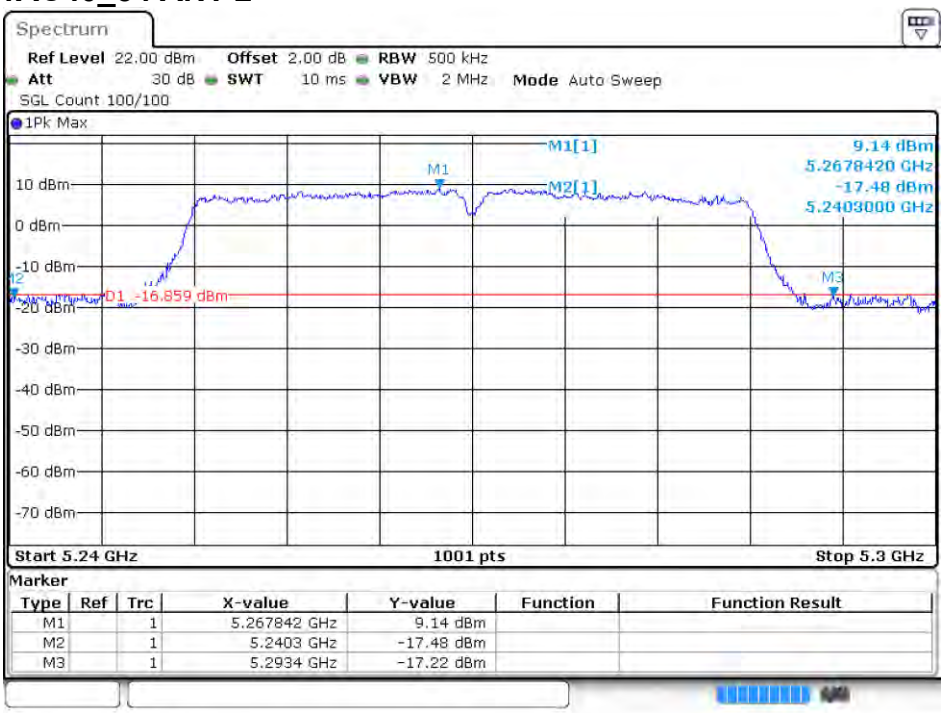


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.267842 GHz	7.66 dBm		
M2		1	5.24888 GHz	-19.74 dBm		
M3		1	5.2907 GHz	-19.39 dBm		

Date: 1.JAN.2020 05:17:33

4.5.1.102 11AC40_54 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.267842 GHz	9.14 dBm		
M2		1	5.2403 GHz	-17.48 dBm		
M3		1	5.2934 GHz	-17.22 dBm		

Date: 1.JAN.2020 06:18:10

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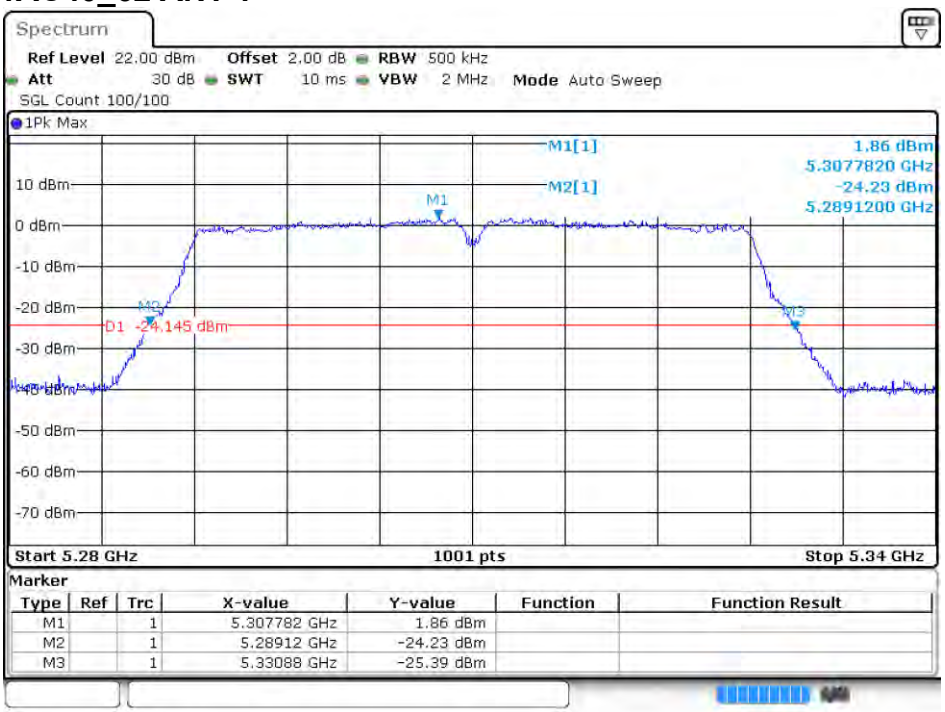
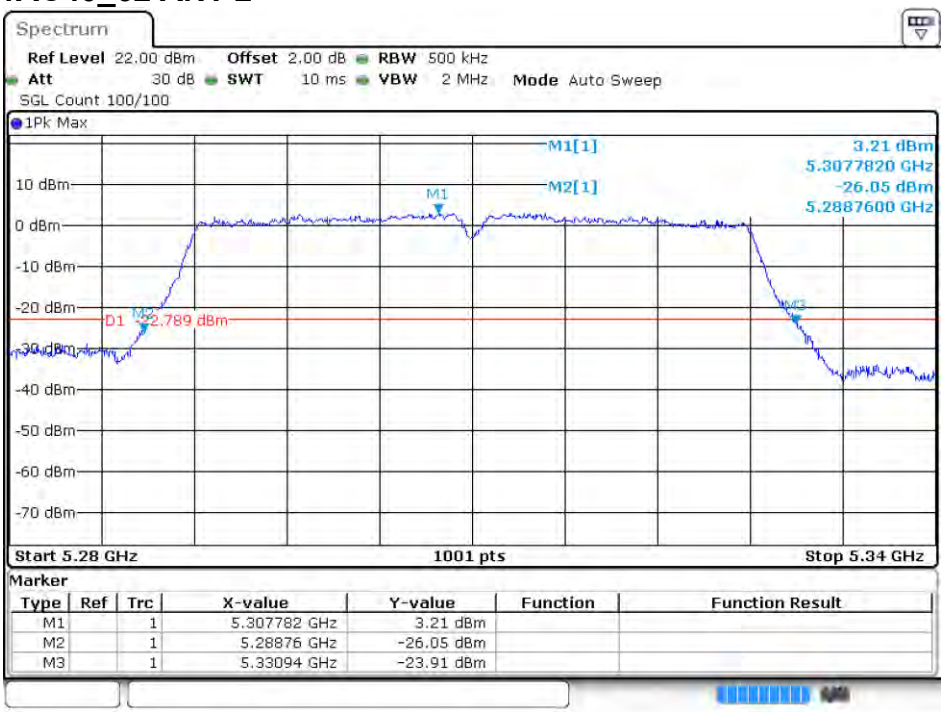
4.5.1.103 11AC40_62 ANT 1



Date: 1.JAN.2020 05:20:13

4.5.1.104 11AC40_62 ANT 2



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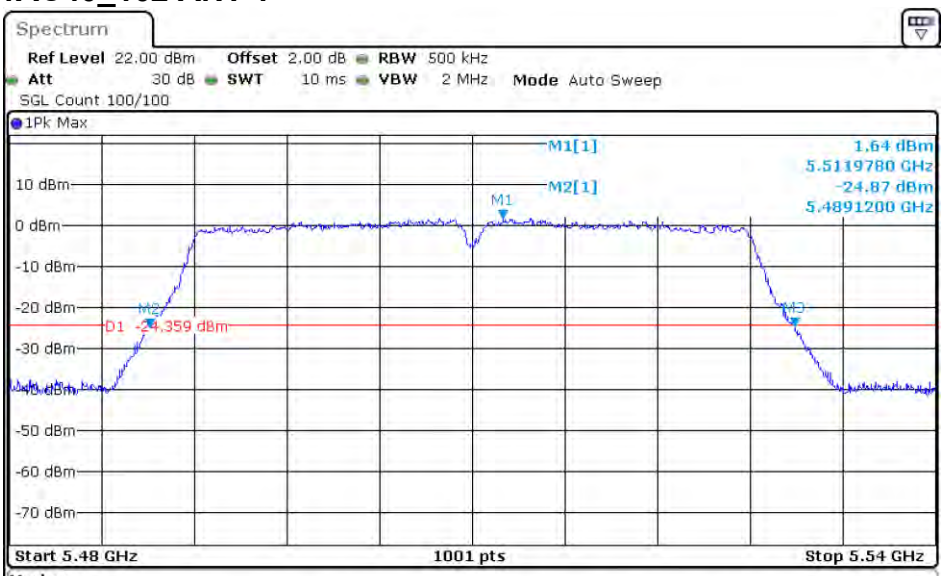
4.5.1.105 11AC40_102 ANT 1

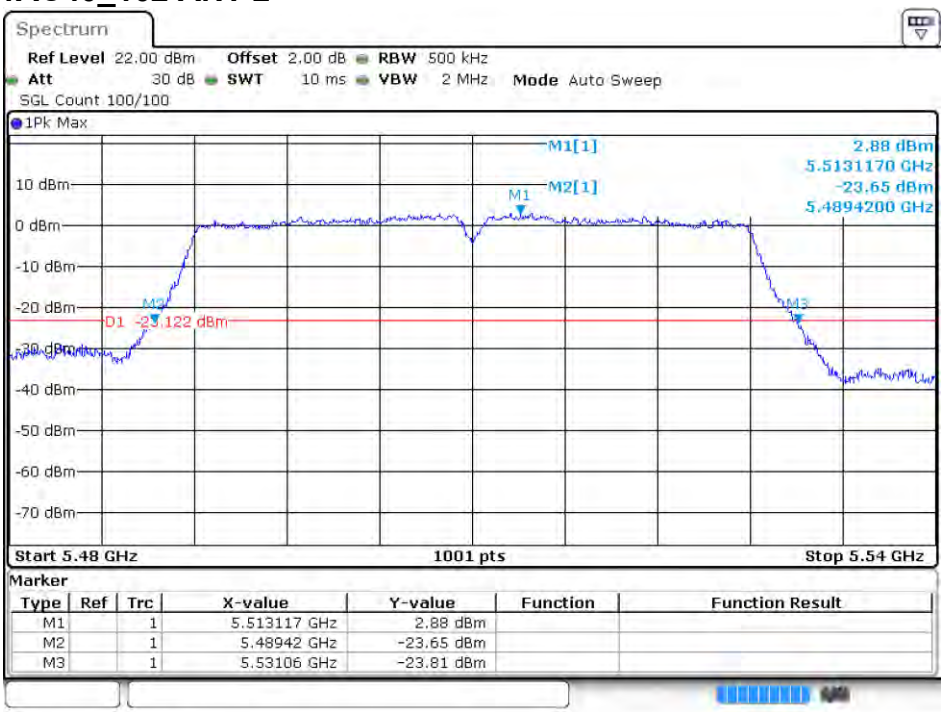


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.511978 GHz	1.64 dBm		
M2		1	5.48912 GHz	-24.87 dBm		
M3		1	5.53088 GHz	-24.71 dBm		

Date: 1.JAN.2020 05:21:58

4.5.1.106 11AC40_102 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.513117 GHz	2.88 dBm		
M2		1	5.48942 GHz	-23.65 dBm		
M3		1	5.53106 GHz	-23.81 dBm		

Date: 1.JAN.2020 06:21:55

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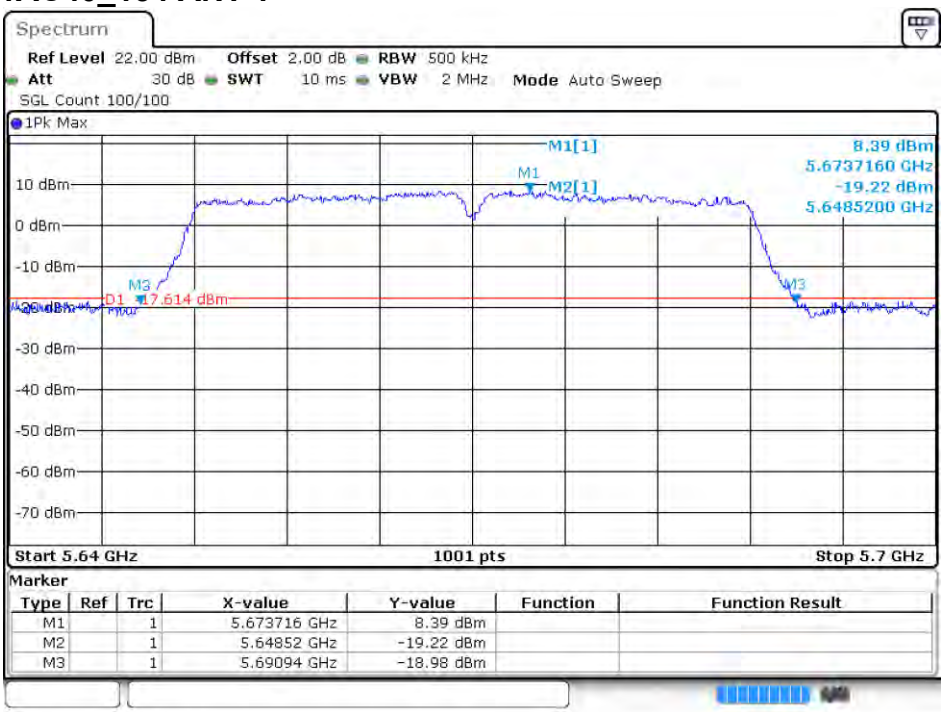
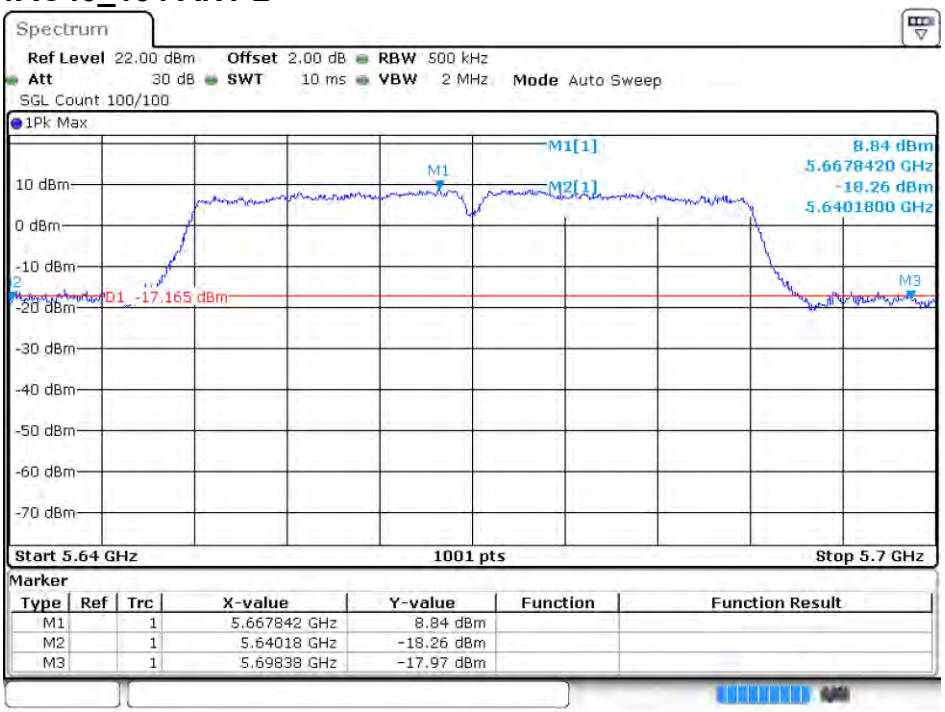
4.5.1.107 11AC40_134 ANT 1



Date: 1.JAN.2020 05:23:14

4.5.1.108 11AC40_134 ANT 2



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

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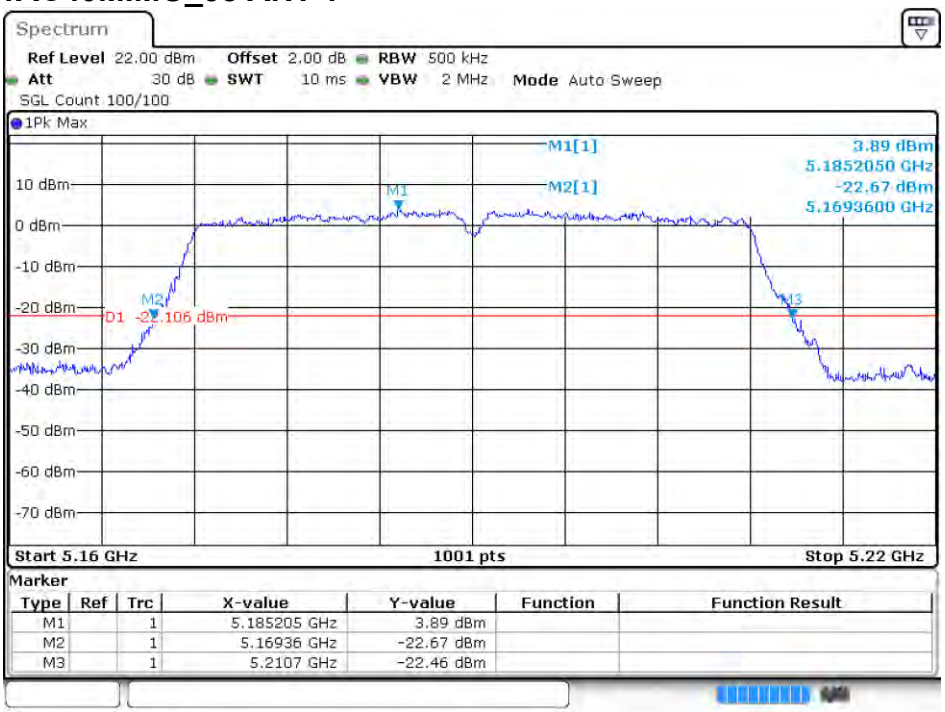
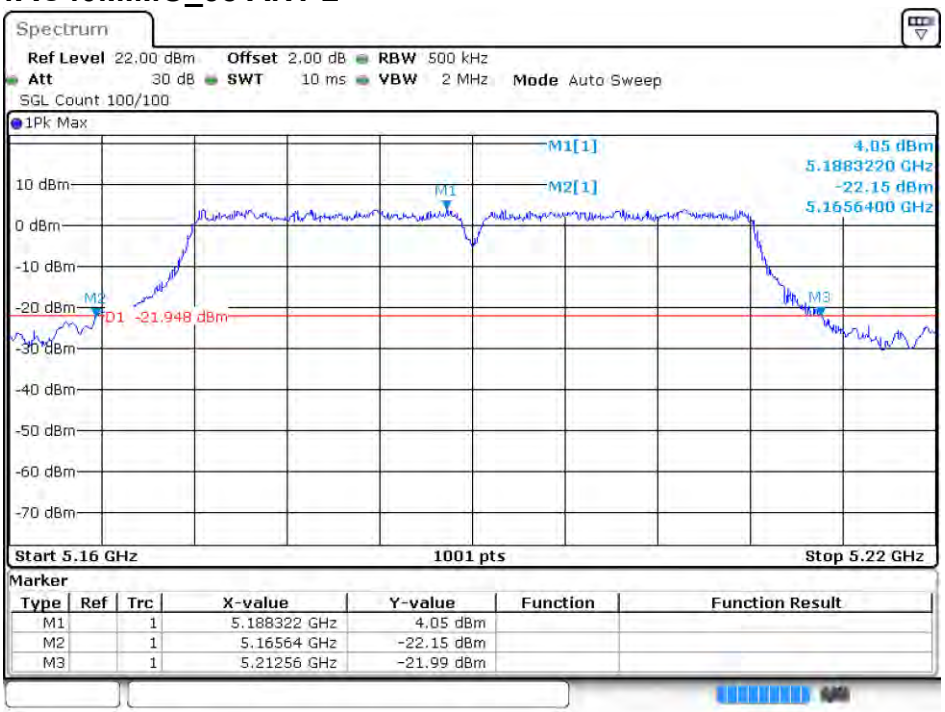
4.5.1.109 11AC40MIMO_38 ANT 1



Date: 3.JAN.2020 02:50:00

4.5.1.110 11AC40MIMO_38 ANT 2



Date: 3.JAN.2020 01:42:43

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4.5.1.111 11AC40MIMO_46 ANT 1

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

4.5.1.112 11AC40MIMO_46 ANT 2

Date: 3.JAN.2020 01:52:14

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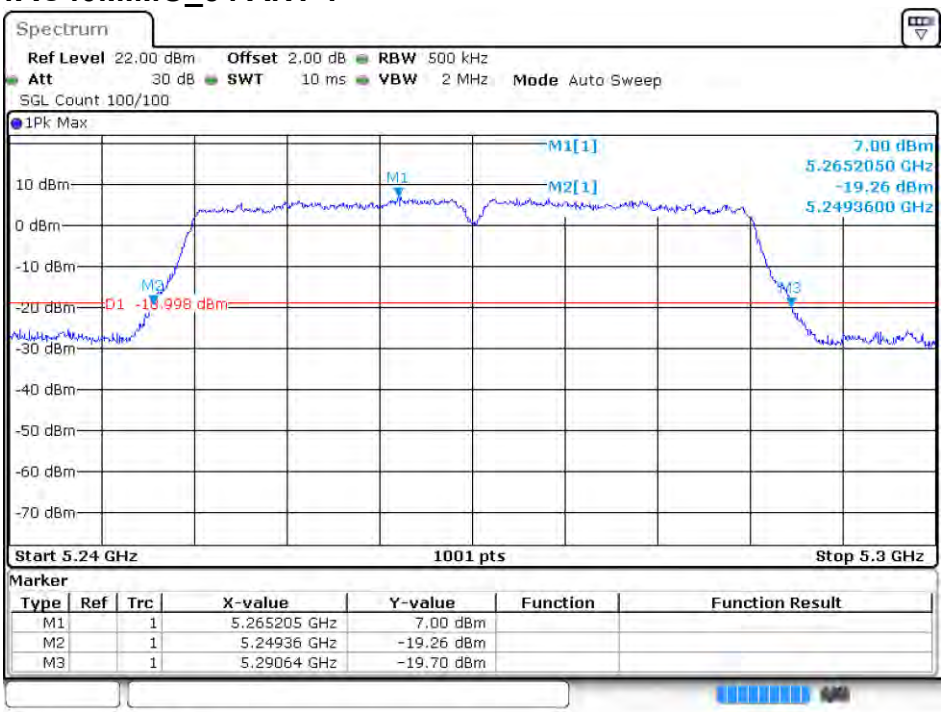
4.5.1.113 11AC40MIMO_54 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.265205 GHz	7.00 dBm		
M2		1	5.24936 GHz	-19.26 dBm		
M3		1	5.29064 GHz	-19.70 dBm		

Date: 3.JAN.2020 02:53:41

4.5.1.114 11AC40MIMO_54 ANT 2

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.266344 GHz	10.16 dBm		
M2		1	5.249 GHz	-16.12 dBm		
M3		1	5.29076 GHz	-16.42 dBm		

Date: 3.JAN.2020 01:53:15

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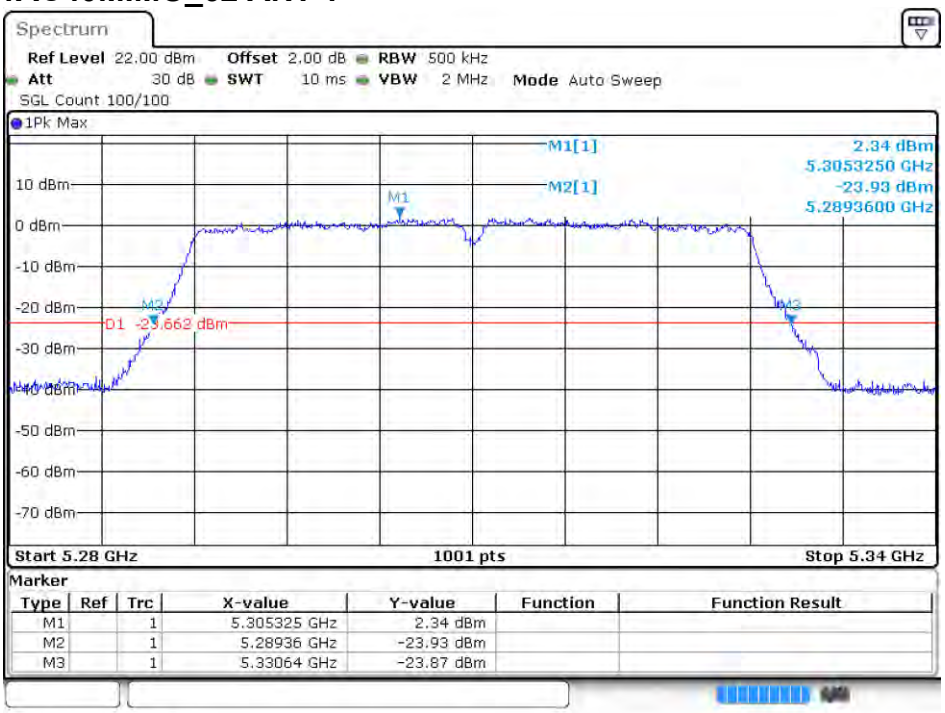
4.5.1.115 11AC40MIMO_62 ANT 1



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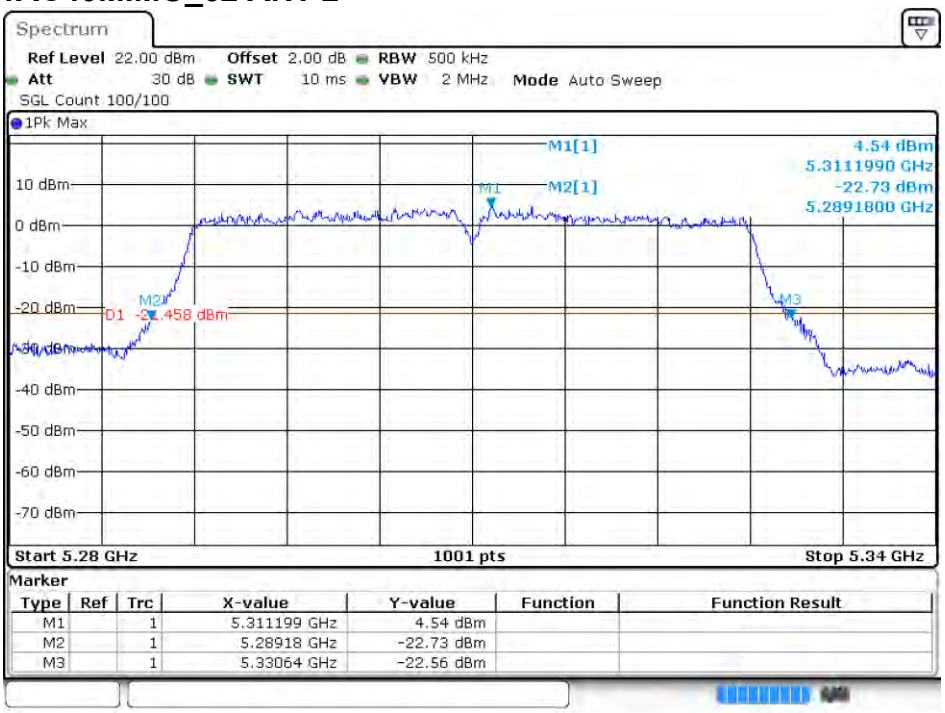
4.5.1.116 11AC40MIMO_62 ANT 2



Date: 3.JAN.2020 01:54:19

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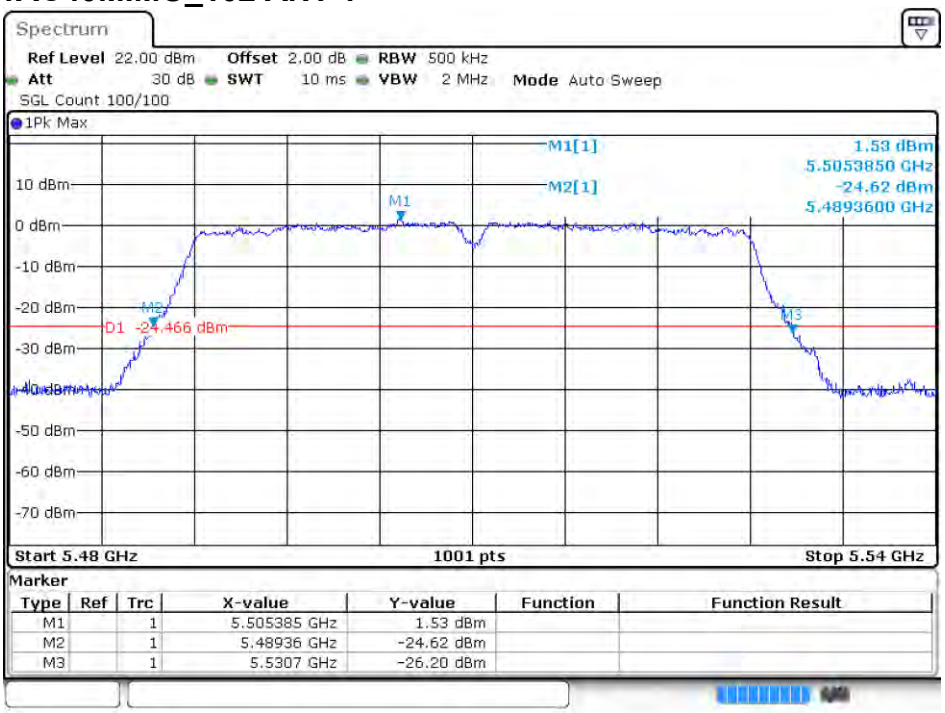
4.5.1.117 11AC40MIMO_102 ANT 1



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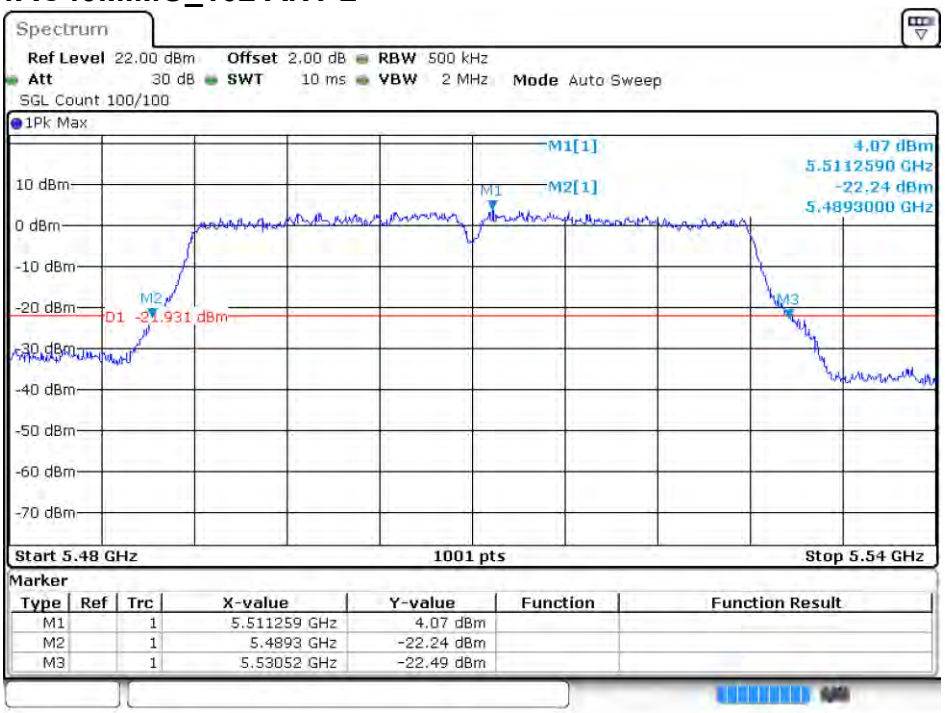
4.5.1.118 11AC40MIMO_102 ANT 2



Date: 3.JAN.2020 01:59:29

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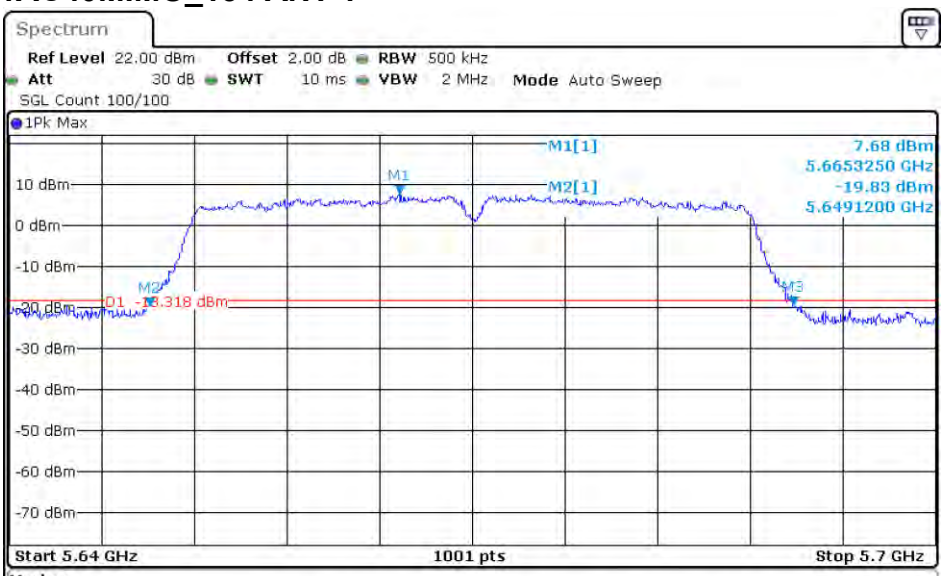
4.5.1.119 11AC40MIMO_134 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.665325 GHz	7.68 dBm		
M2		1	5.64912 GHz	-19.83 dBm		
M3		1	5.69076 GHz	-19.34 dBm		

Date: 3.JAN.2020 03:00:11

4.5.1.120 11AC40MIMO_134 ANT 2

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.671259 GHz	9.86 dBm		
M2		1	5.64888 GHz	-16.80 dBm		
M3		1	5.69076 GHz	-16.41 dBm		

Date: 3.JAN.2020 02:00:39

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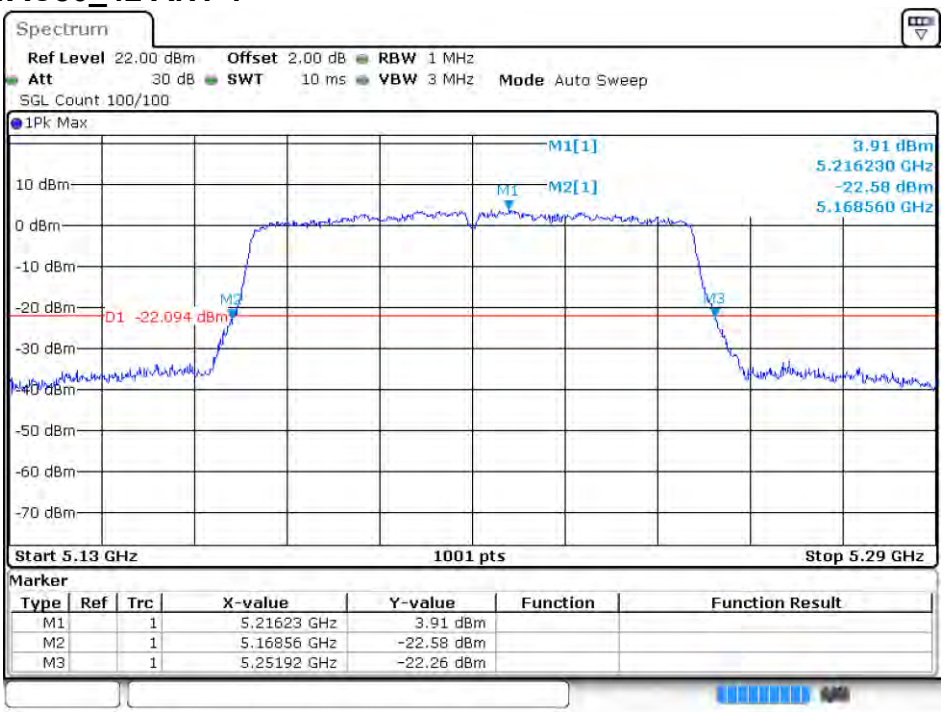
4.5.1.121 11AC80_42 ANT 1



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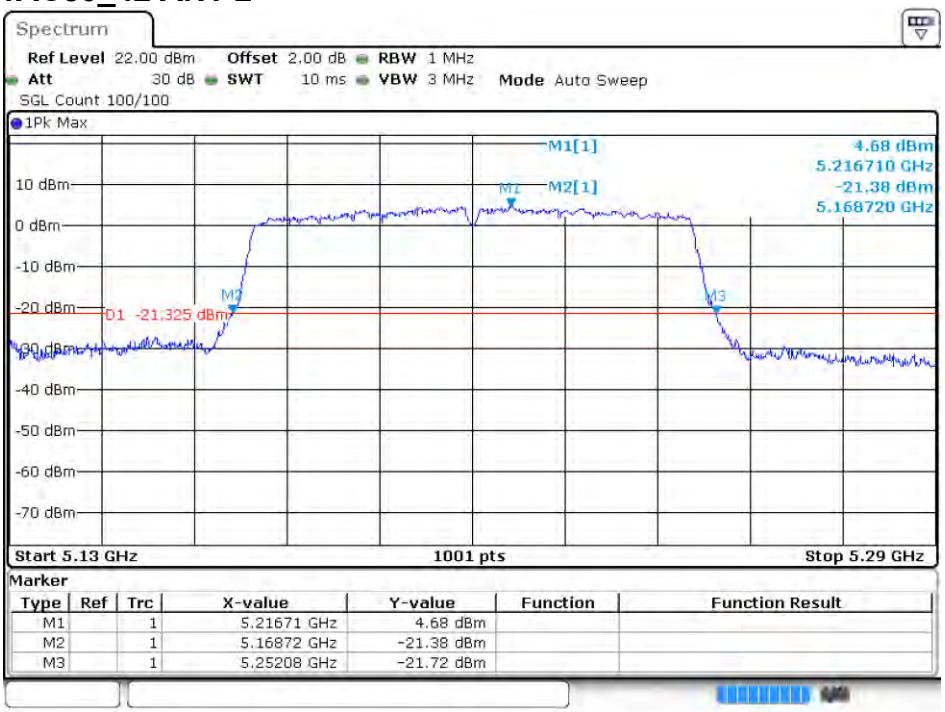
4.5.1.122 11AC80_42 ANT 2



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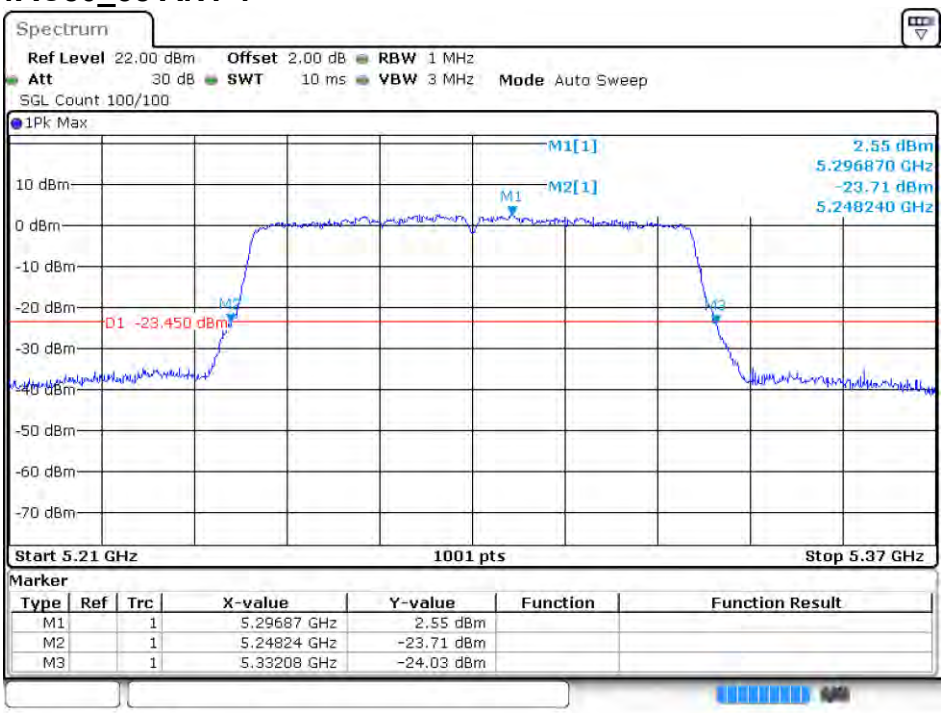
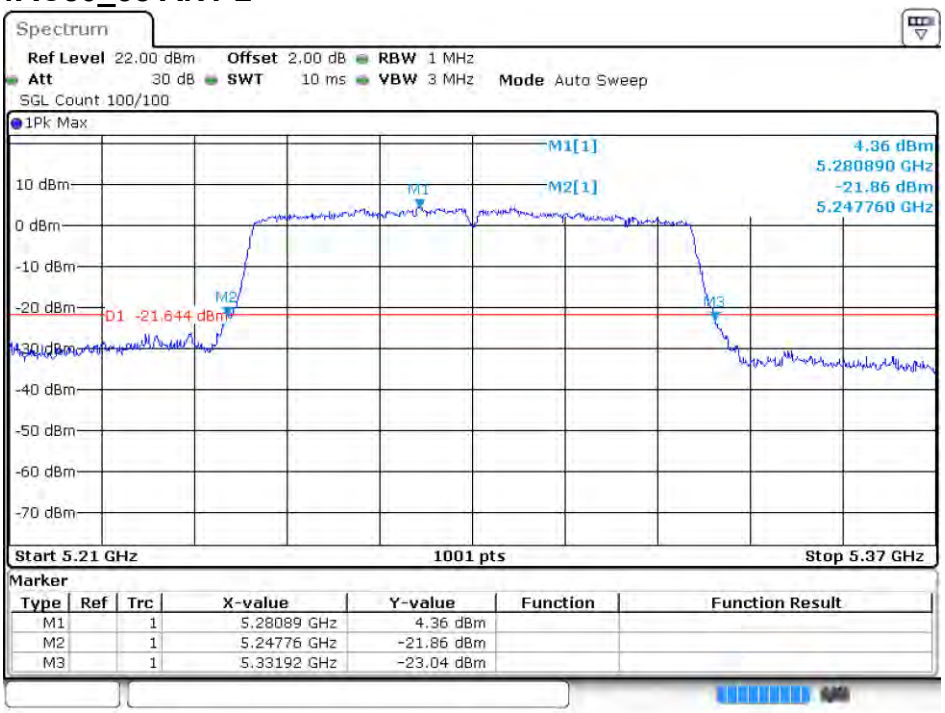
4.5.1.123 11AC80_58 ANT 1



Date: 1.JAN.2020 05:32:45

4.5.1.124 11AC80_58 ANT 2



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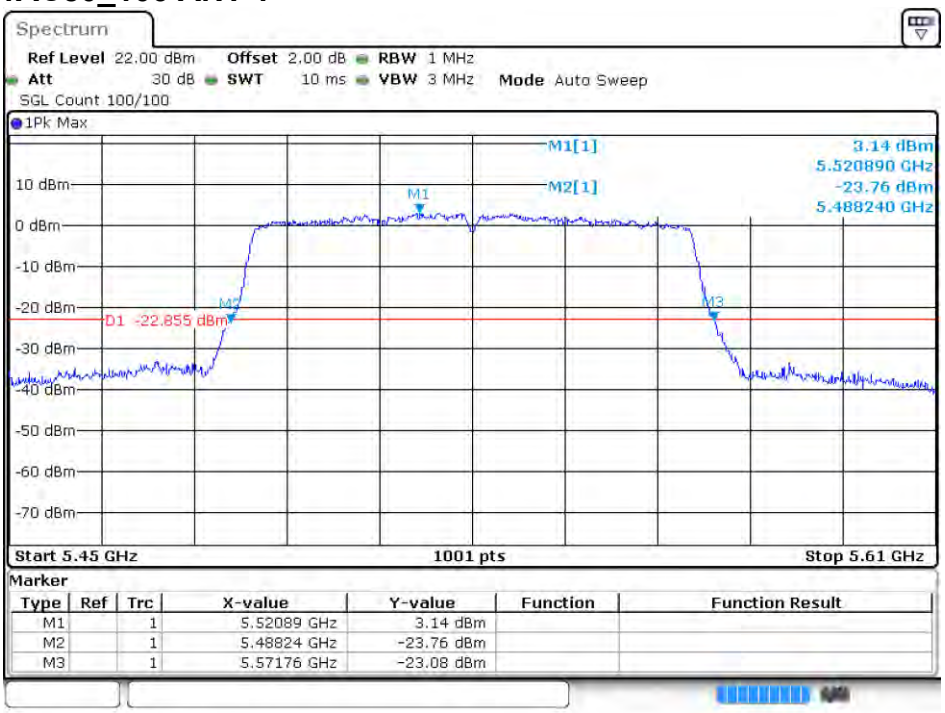
4.5.1.125 11AC80_106 ANT 1



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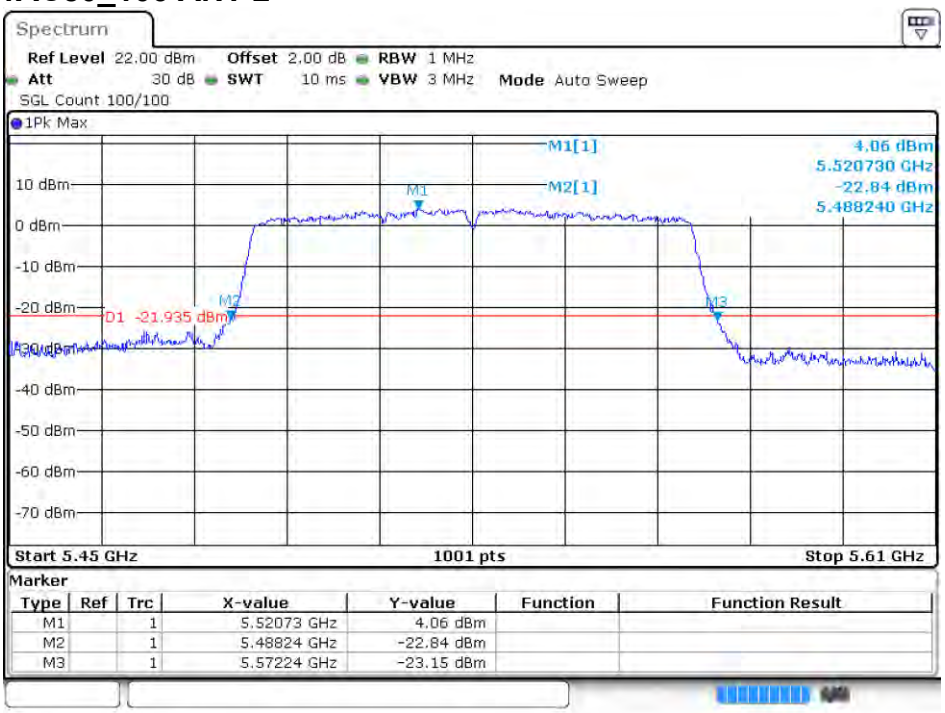
4.5.1.126 11AC80_106 ANT 2



Date: 1.JAN.2020 06:42:03

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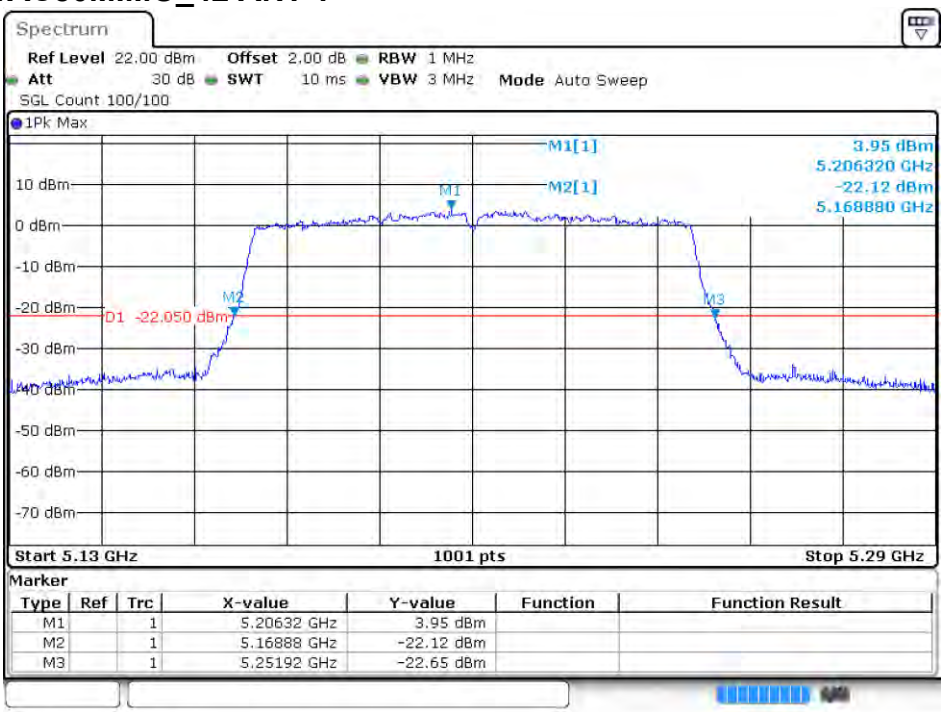
4.5.1.127 11AC80MIMO_42 ANT 1



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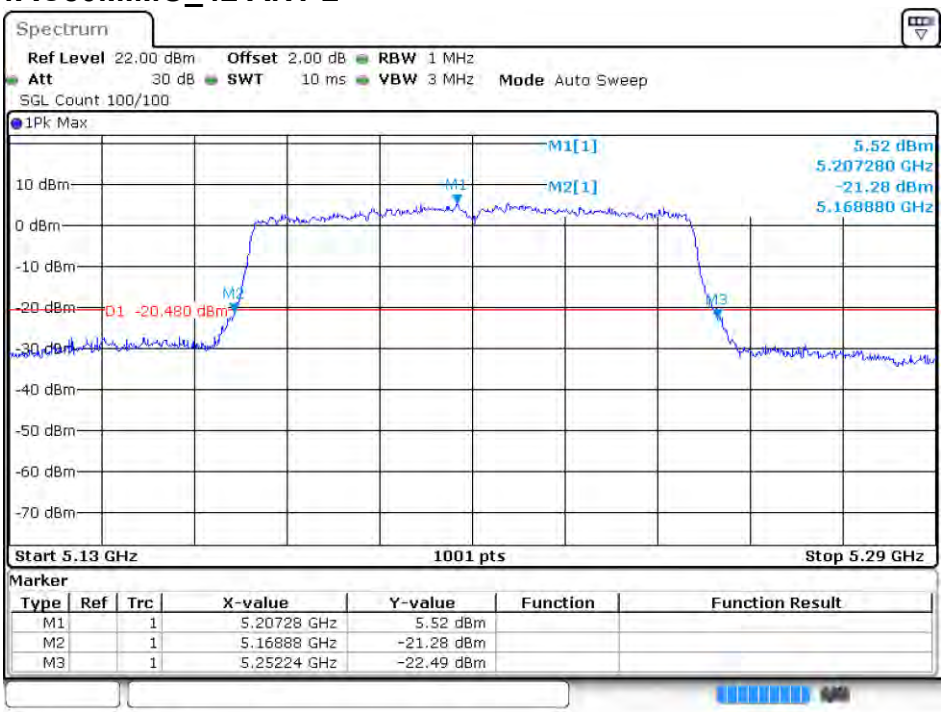
4.5.1.128 11AC80MIMO_42 ANT 2



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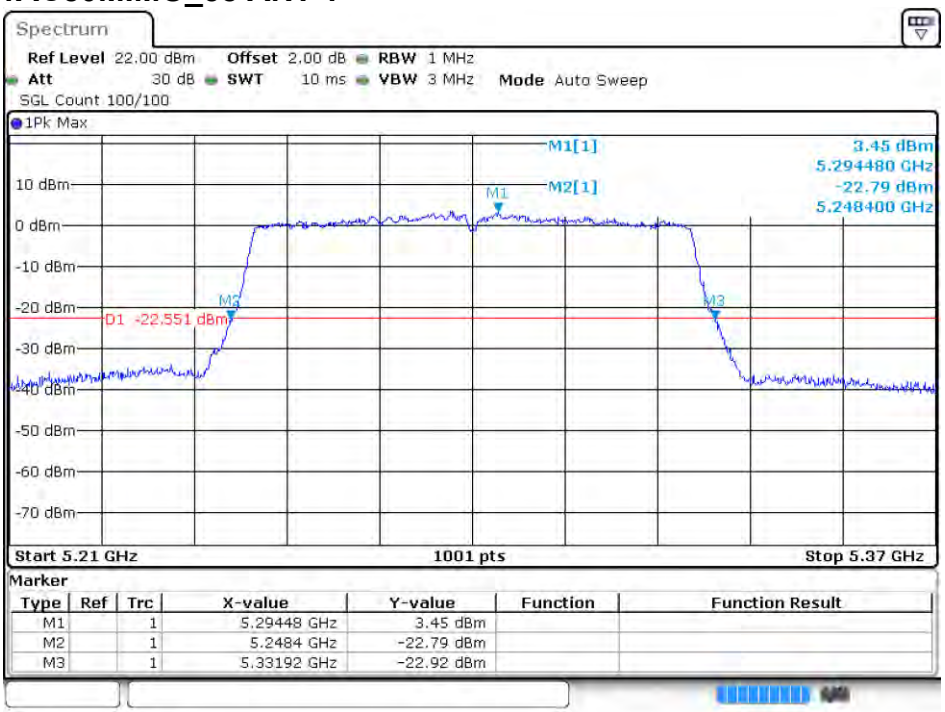
4.5.1.129 11AC80MIMO_58 ANT 1



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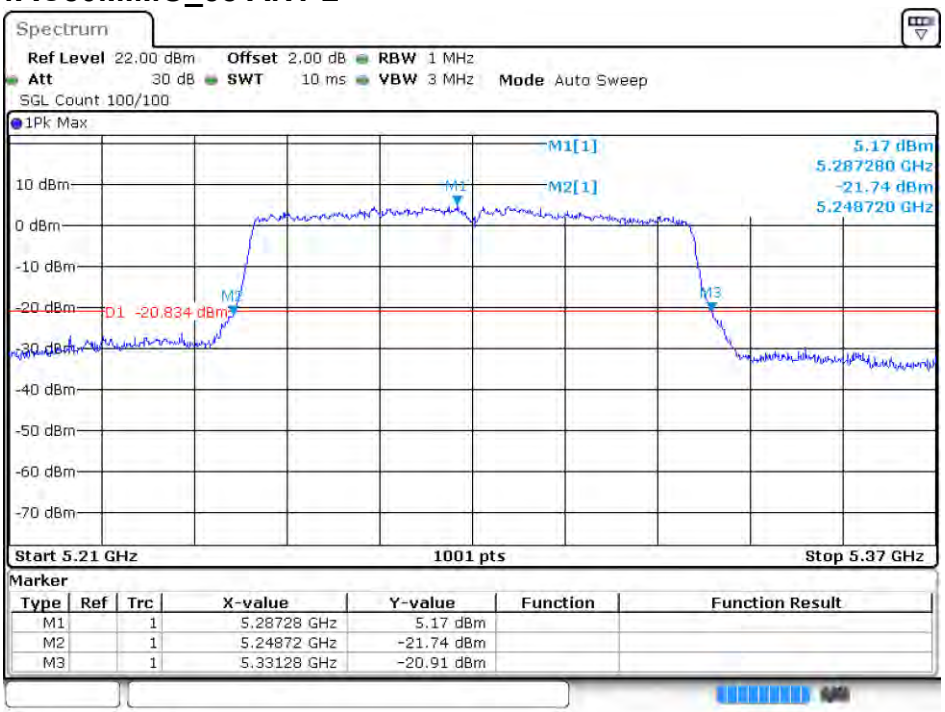
4.5.1.130 11AC80MIMO_58 ANT 2



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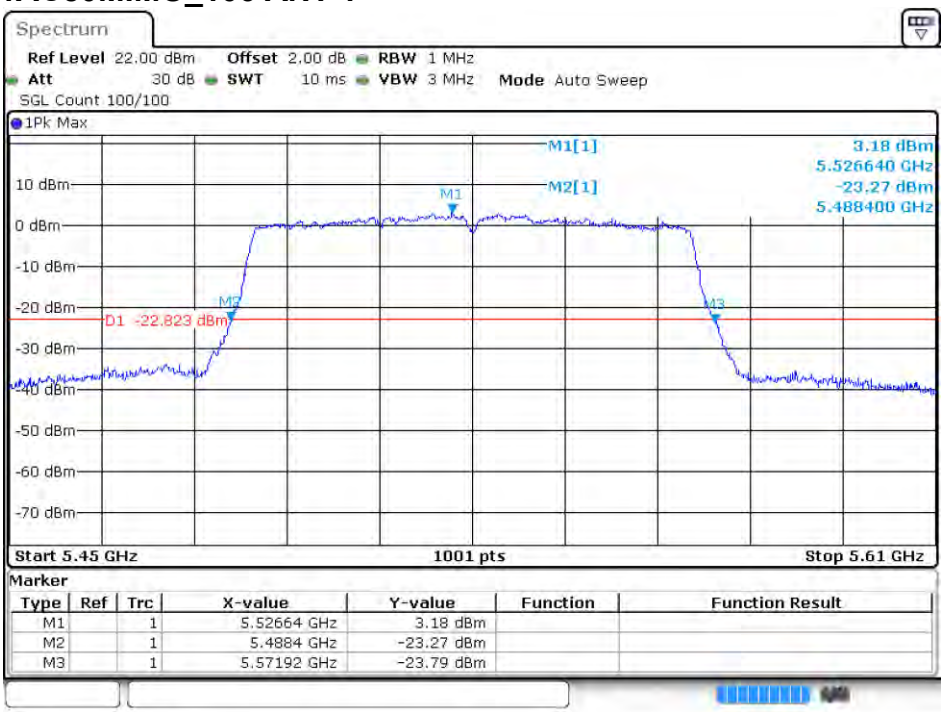
4.5.1.131 11AC80MIMO_106 ANT 1



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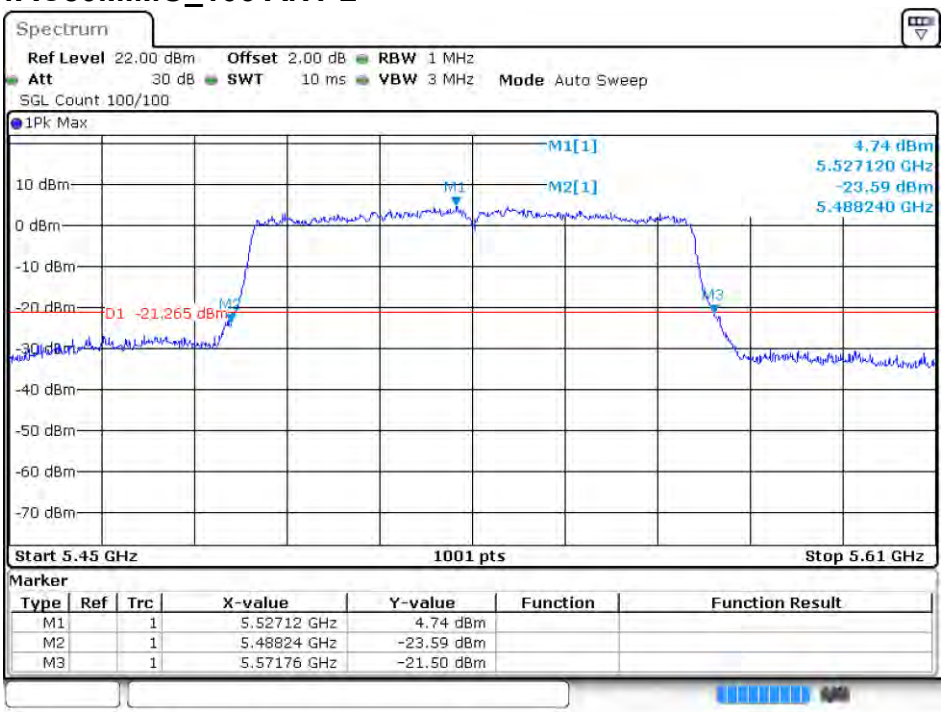
4.5.1.132 11AC80MIMO_106 ANT 2



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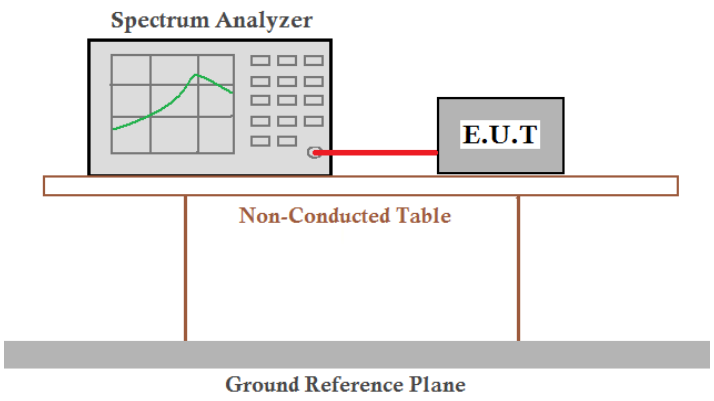
4.6 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	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 5725-5850MHz: At lease 500kHz
Test Results:	Pass

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4.6.1 Test Plots For 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	6dB Emission Bandwidth [MHz]		Verdict
			ANT 1	ANT 2	
11A20	149	5745	15.39	15.69	PASS
	165	5825	15.57	15.60	PASS
11A20 CDD	149	5745	15.87	15.18	PASS
	165	5825	15.69	15.69	PASS
11N20	149	5745	15.99	16.56	PASS
	165	5825	16.86	16.62	PASS
11N20 MIMO	149	5745	15.99	16.62	PASS
	165	5825	15.18	16.62	PASS
11N40	151	5755	35.64	35.22	PASS
	159	5795	35.82	35.22	PASS
11N40 MIMO	151	5755	35.28	35.28	PASS
	159	5795	35.22	35.28	PASS
11AC20	149	5745	15.18	15.96	PASS
	165	5825	16.59	15.51	PASS
11AC20 MIMO	149	5745	15.39	16.59	PASS
	165	5825	15.72	16.62	PASS
11AC40	151	5755	35.58	35.82	PASS
	159	5795	35.28	35.28	PASS
11AC40 MIMO	151	5755	35.28	35.28	PASS
	159	5795	35.28	35.16	PASS
11AC80	155	5775	74.24	74.24	PASS
11AC80 MIMO	155	5775	75.52	75.52	PASS

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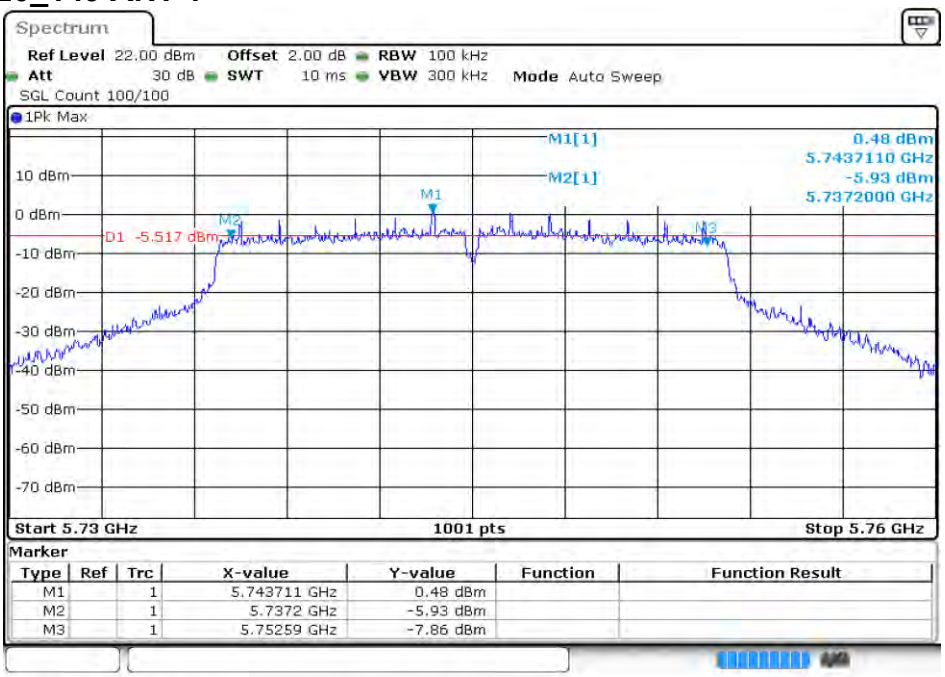
4.6.2 Test Plots For 6dB Emission Bandwidth

4.6.2.1 11A20_149 ANT 1



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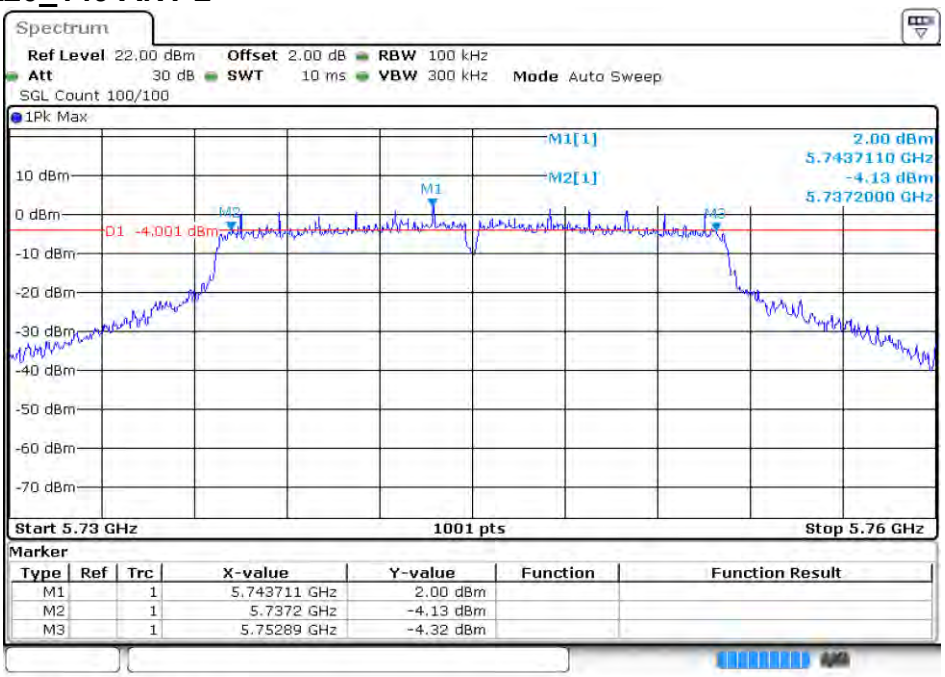
4.6.2.2 11A20_149 ANT 2



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4.6.2.3 11A20_165 ANT 1

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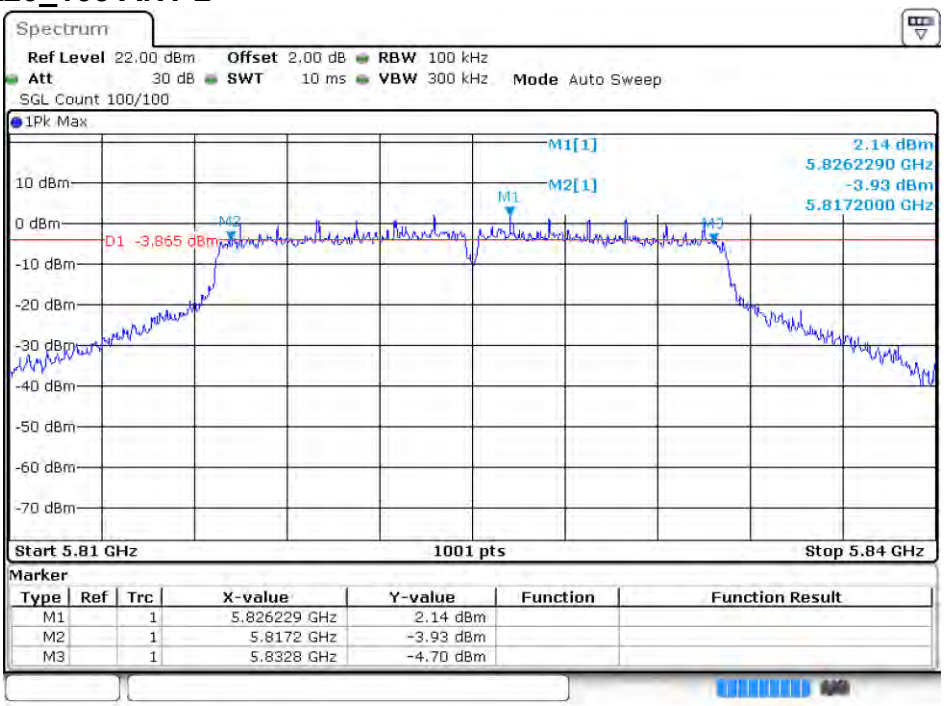
4.6.2.4 11A20_165 ANT 2



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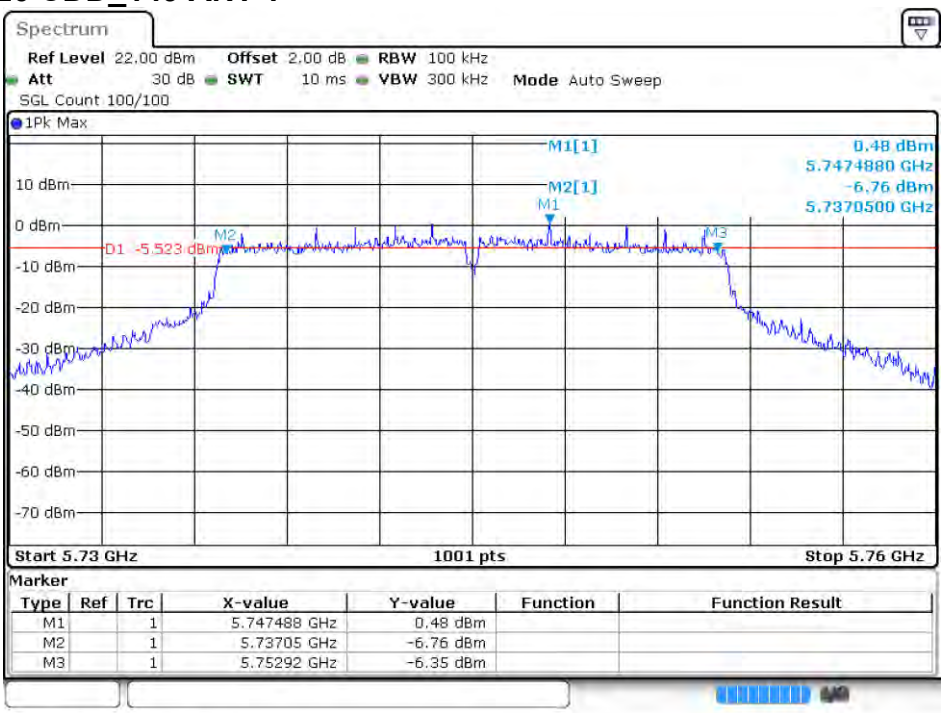
4.6.2.5 11A20 CDD_149 ANT 1



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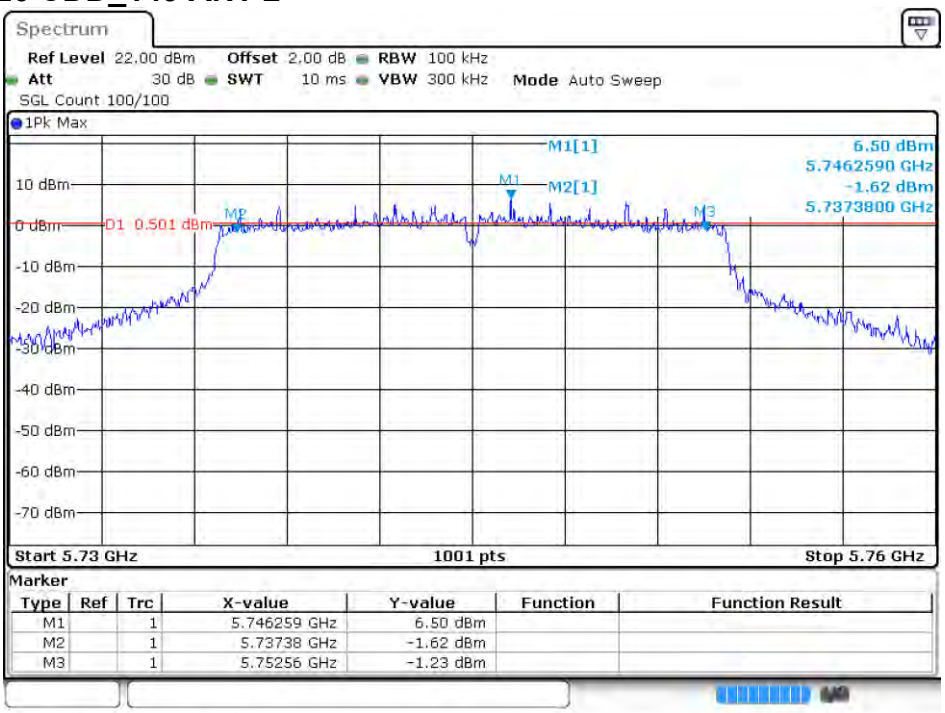
4.6.2.6 11A20 CDD_149 ANT 2



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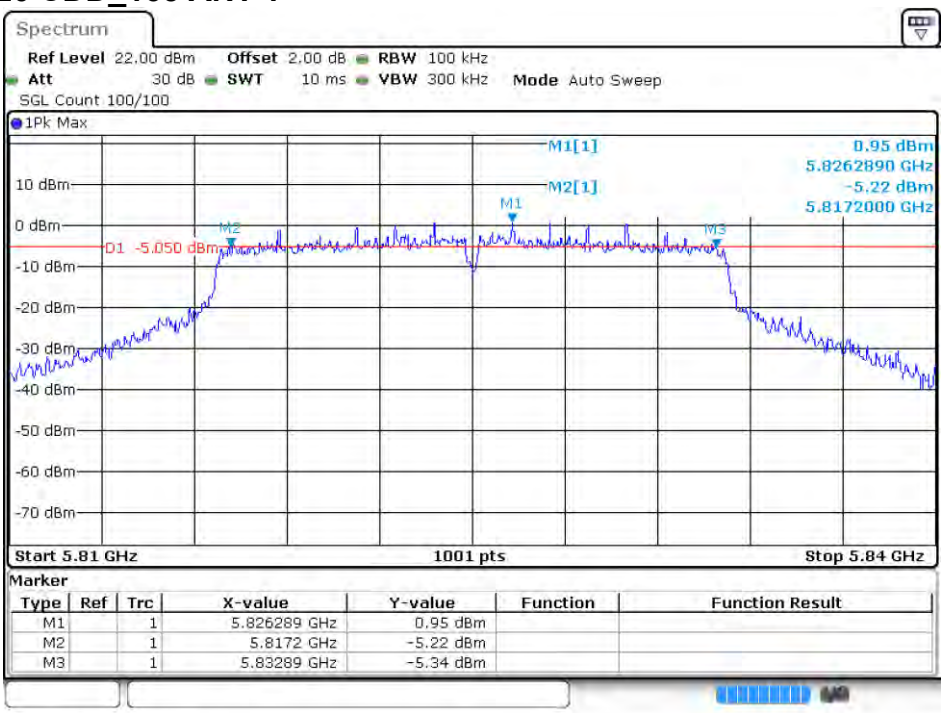
4.6.2.7 11A20 CDD_165 ANT 1



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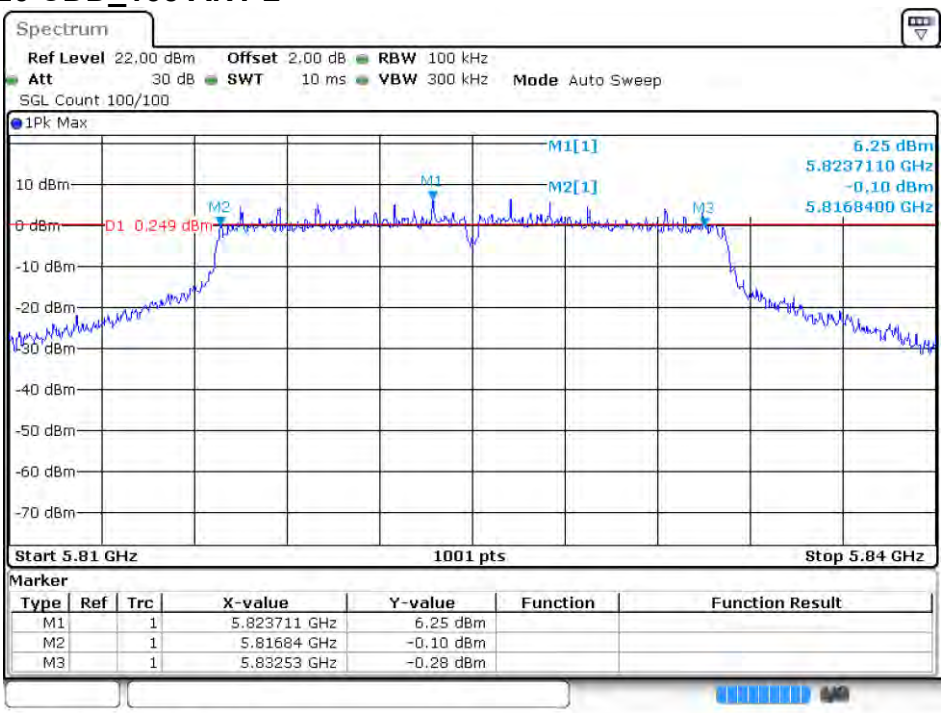
4.6.2.8 11A20 CDD_165 ANT 2



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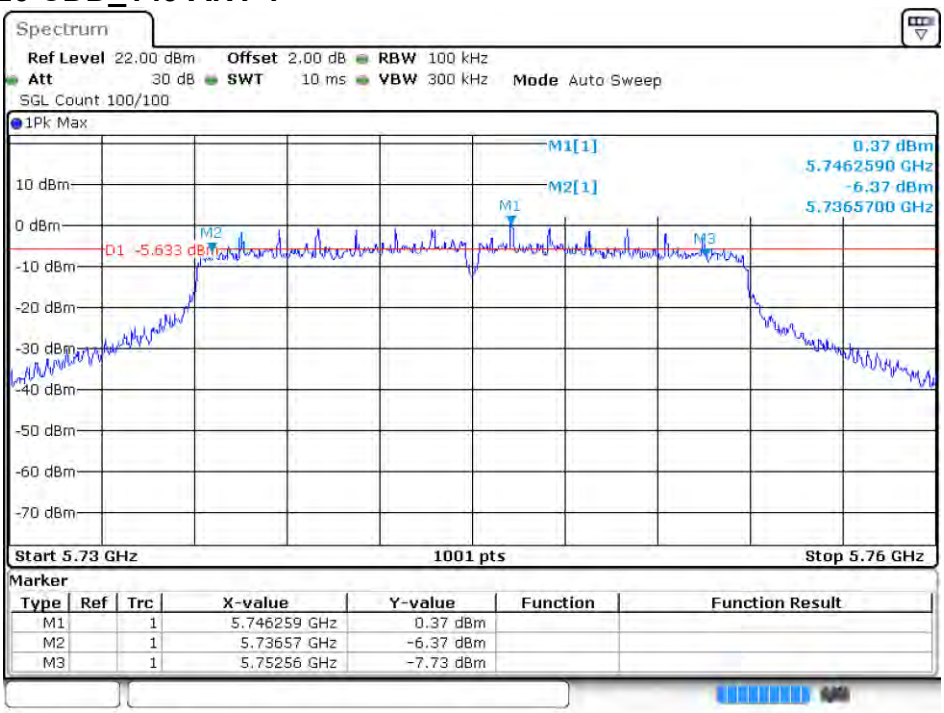
4.6.2.9 11N20 CDD_149 ANT 1



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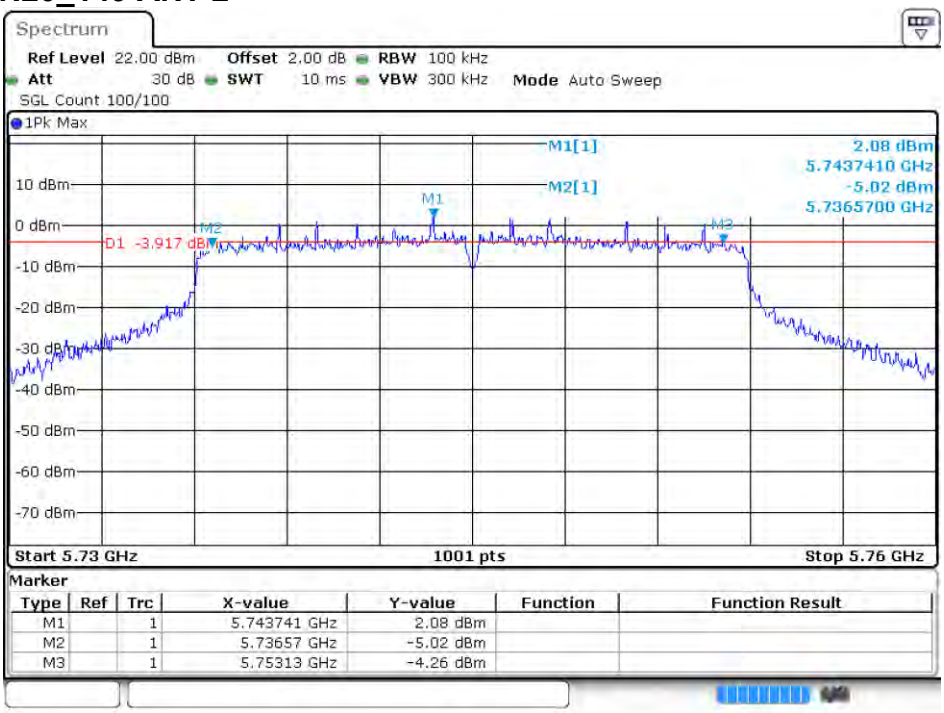

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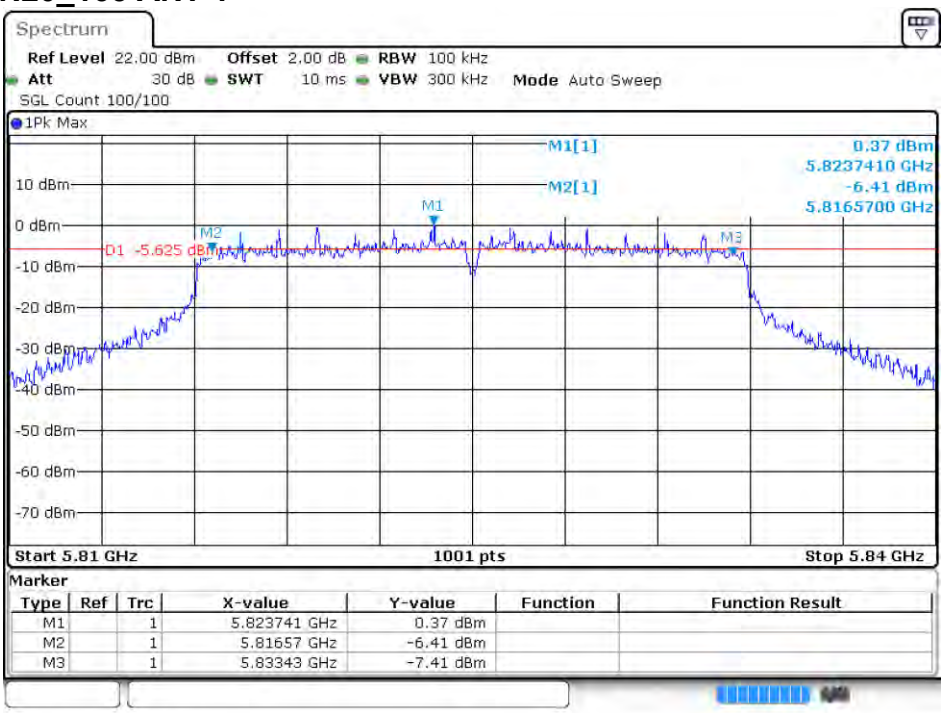
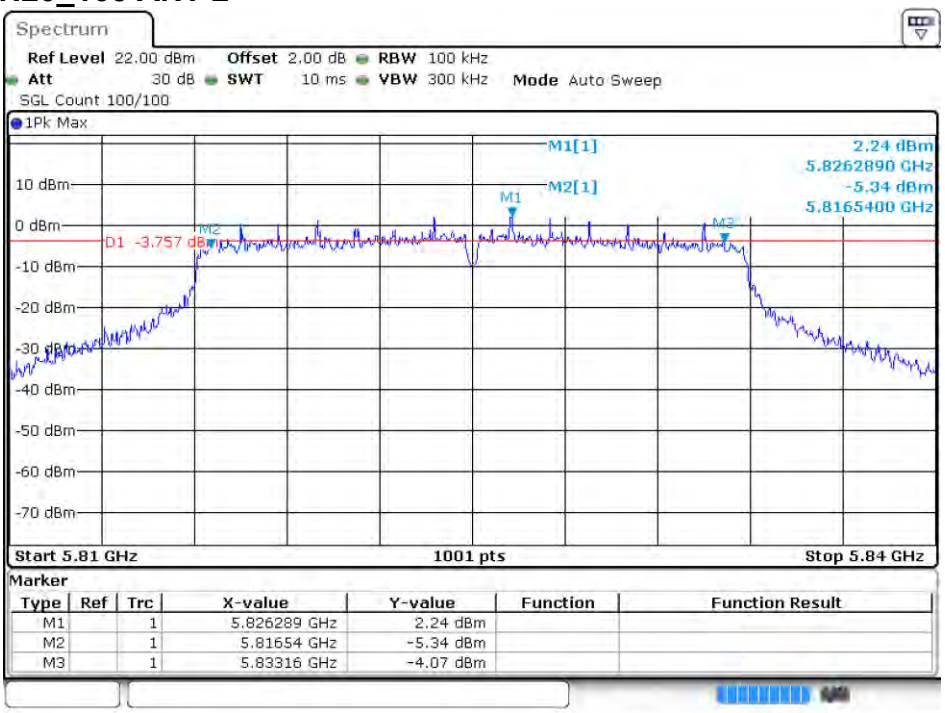
4.6.2.11 11N20_165 ANT 1



Date: 1.JAN.2020 04:41:24

4.6.2.12 11N20_165 ANT 2



Date: 1.JAN.2020 03:43:57

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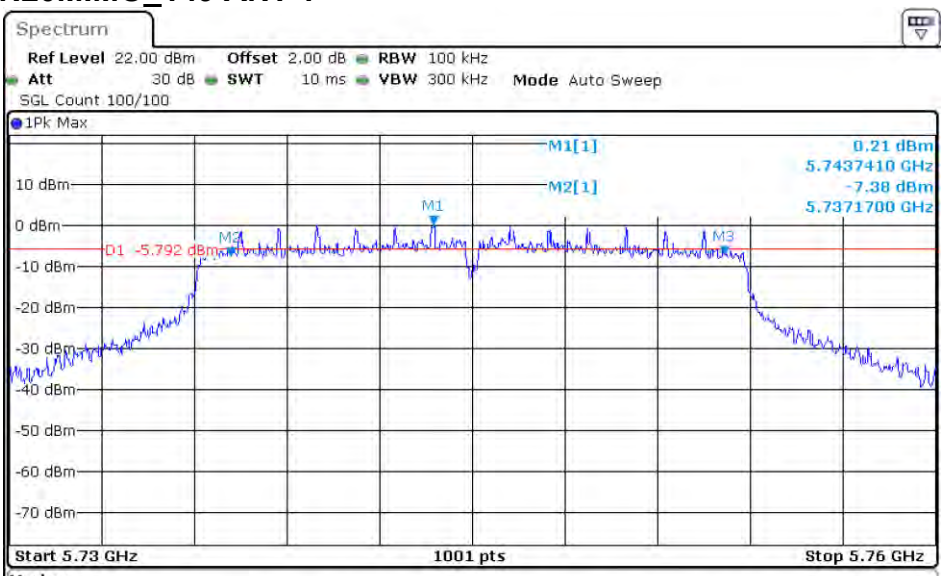
4.6.2.13 11N20MIMO_149 ANT 1

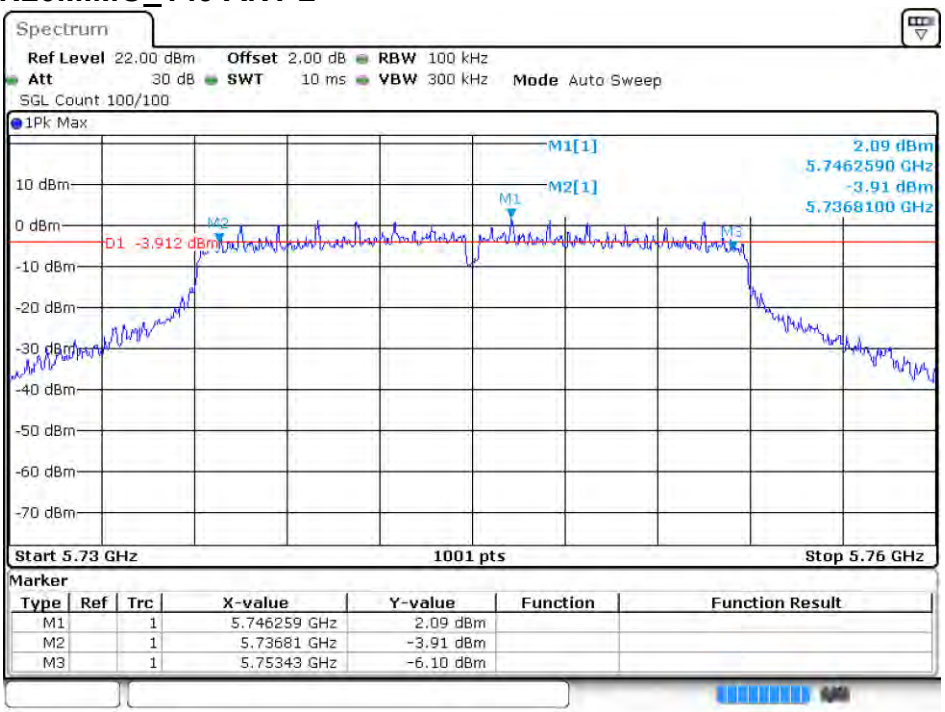


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.743741 GHz	0.21 dBm		
M2		1	5.73717 GHz	-7.38 dBm		
M3		1	5.75316 GHz	-7.01 dBm		

Date: 1.JAN.2020 07:34:59

4.6.2.14 11N20MIMO_149 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.746259 GHz	2.09 dBm		
M2		1	5.73681 GHz	-3.91 dBm		
M3		1	5.75343 GHz	-6.10 dBm		

Date: 1.JAN.2020 08:44:38

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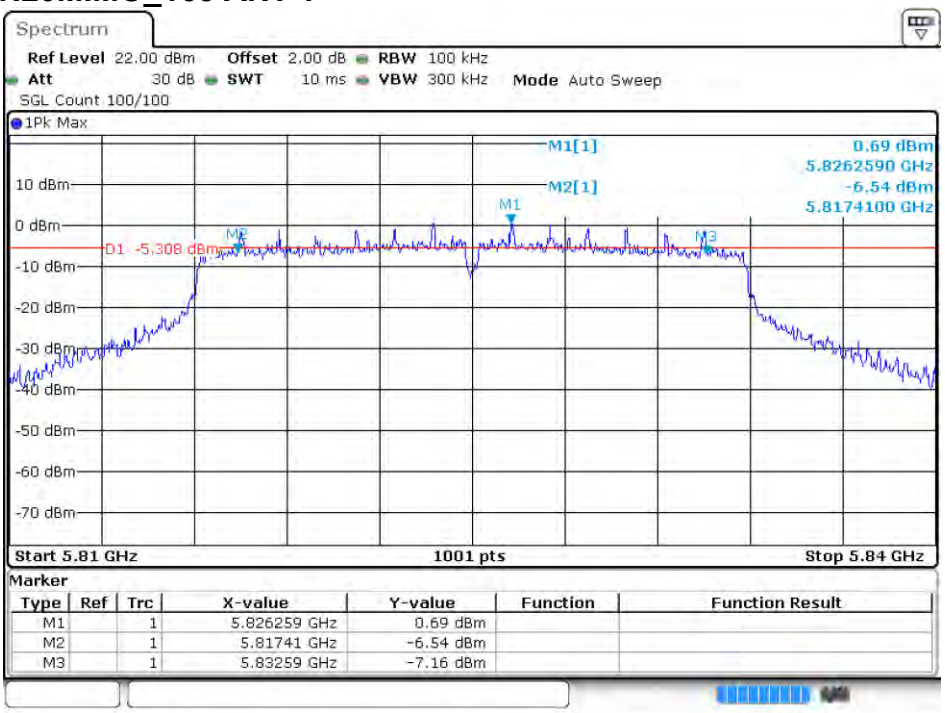
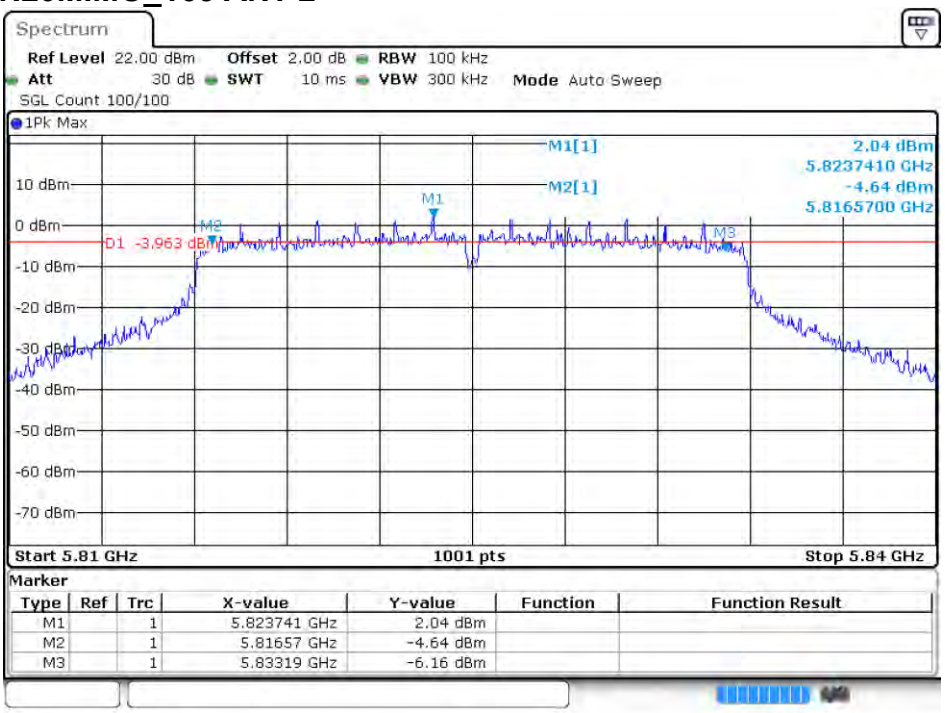
4.6.2.15 11N20MIMO_165 ANT 1



Date: 1.JAN.2020 07:37:52

4.6.2.16 11N20MIMO_165 ANT 2



Date: 1.JAN.2020 08:45:28

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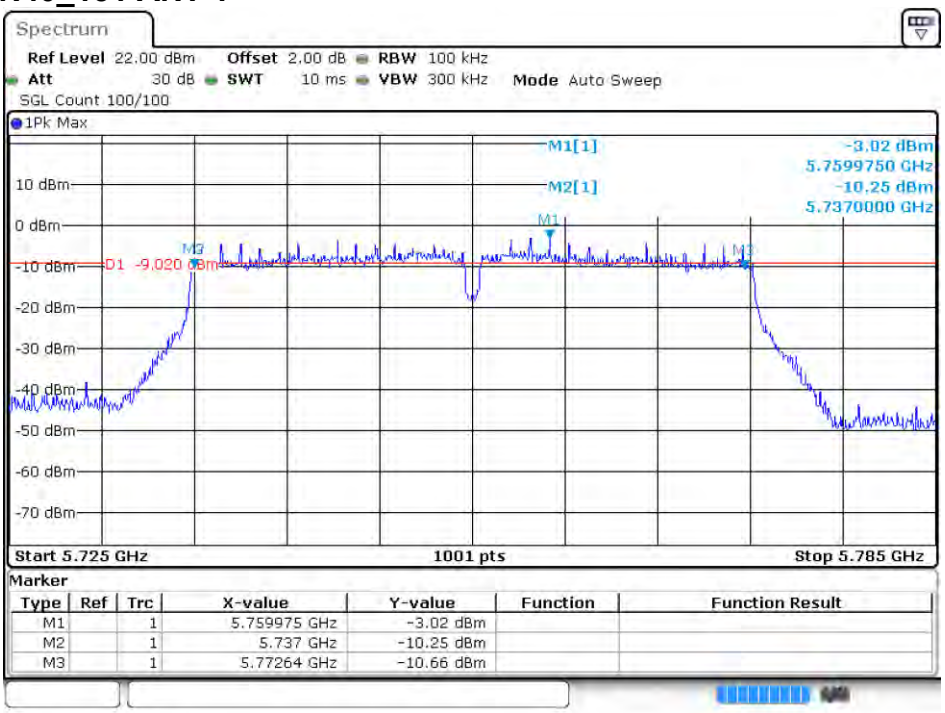
4.6.2.17 11N40_151 ANT 1



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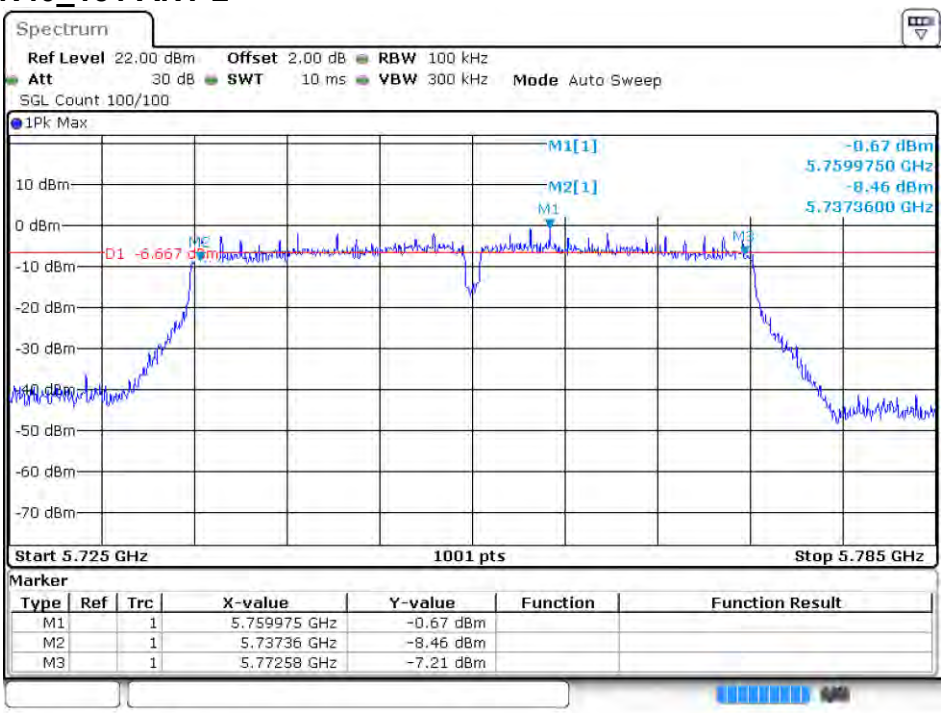
4.6.2.18 11N40_151 ANT 2



Date: 1.JAN.2020 06:10:26

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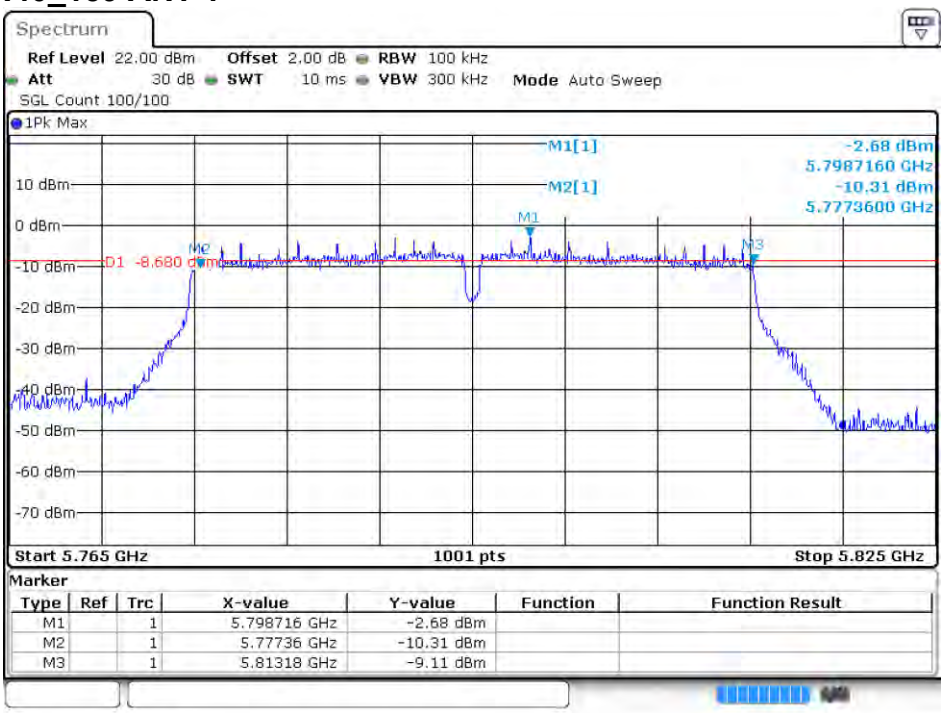
4.6.2.19 11N40_159 ANT 1



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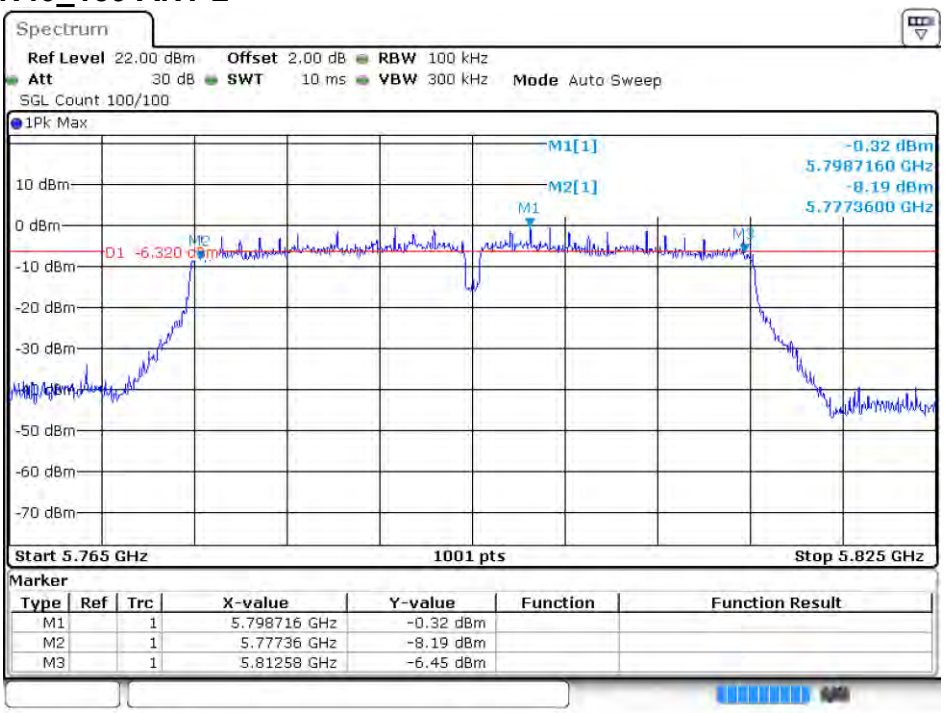
4.6.2.20 11N40_159 ANT 2



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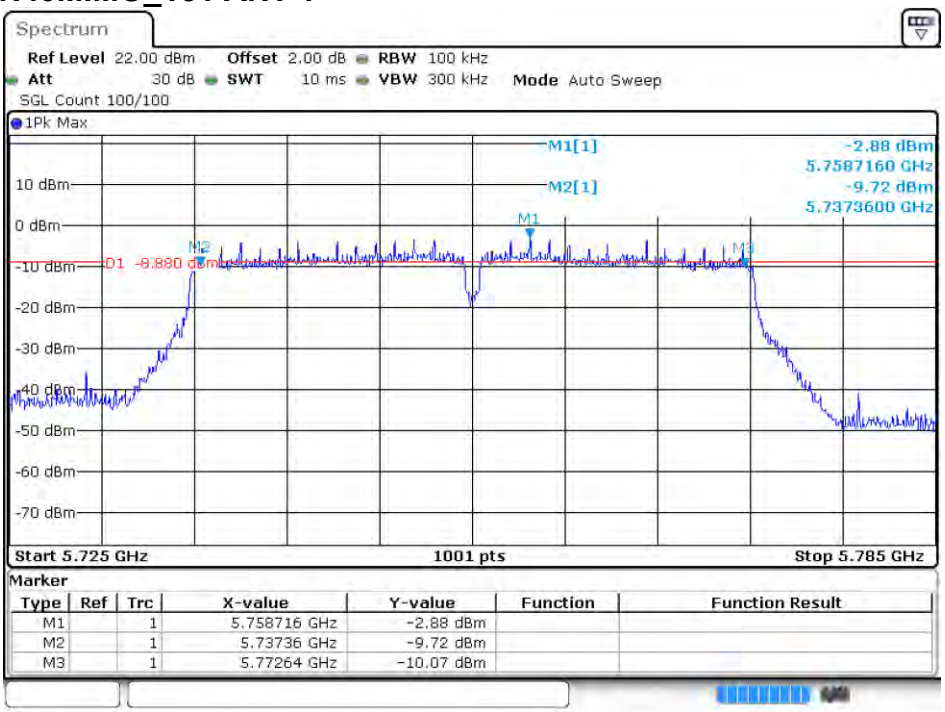
4.6.2.21 11N40MIMO_151 ANT 1



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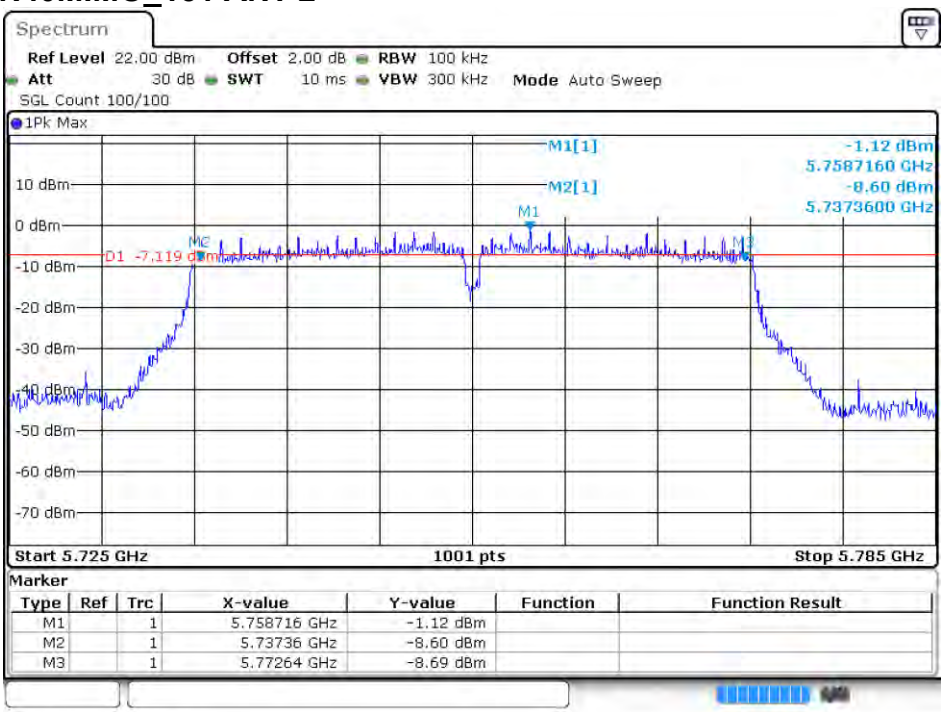
4.6.2.22 11N40MIMO_151 ANT 2



Date: 3.JAN.2020 01:39:24

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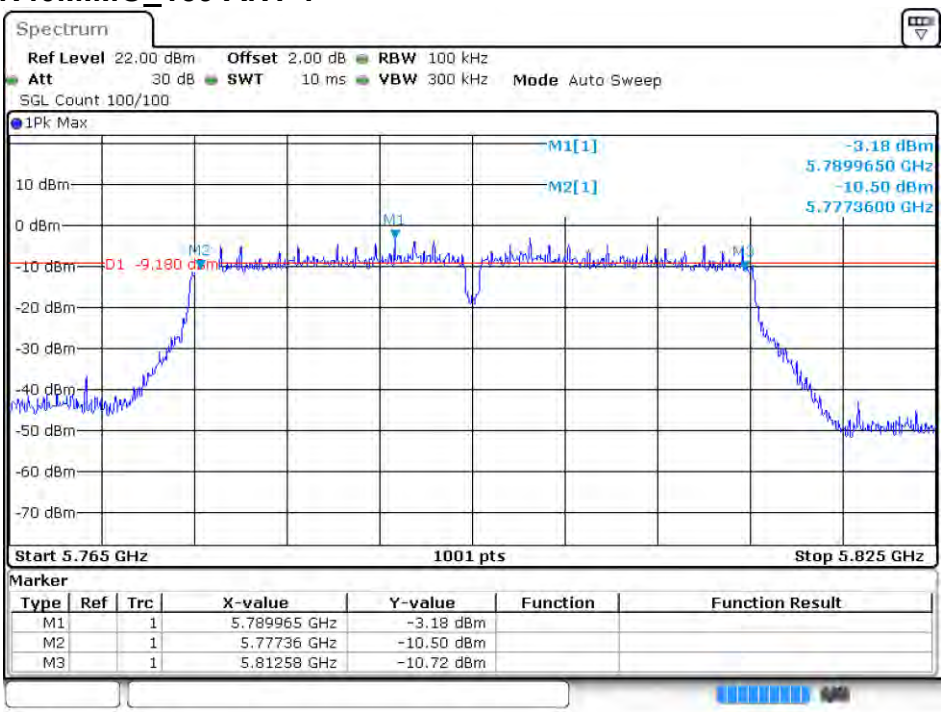
4.6.2.23 11N40MIMO_159 ANT 1



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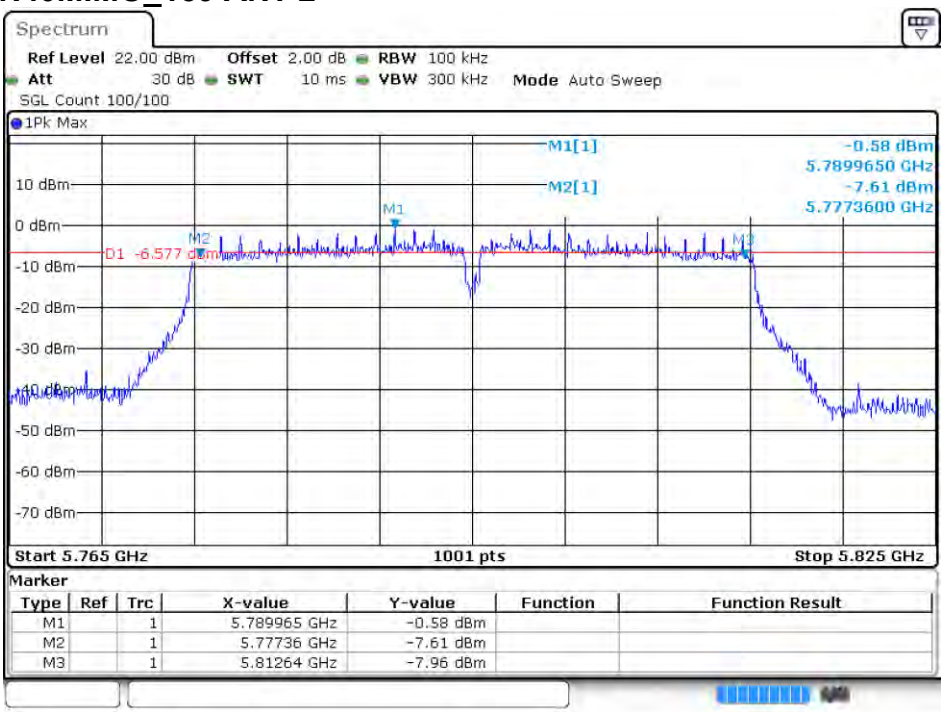
4.6.2.24 11N40MIMO_159 ANT 2



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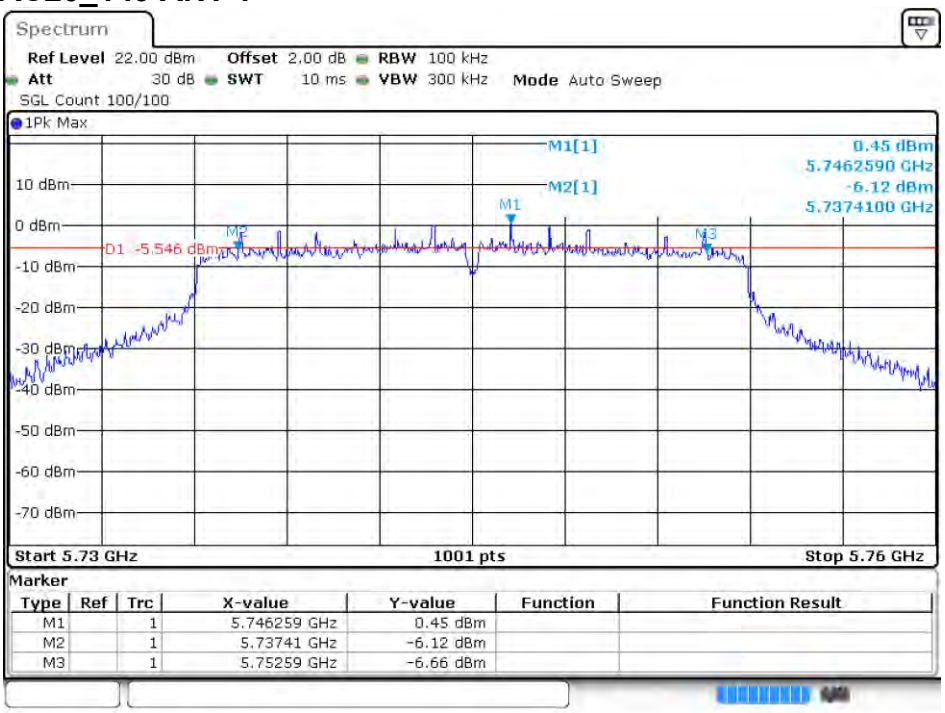

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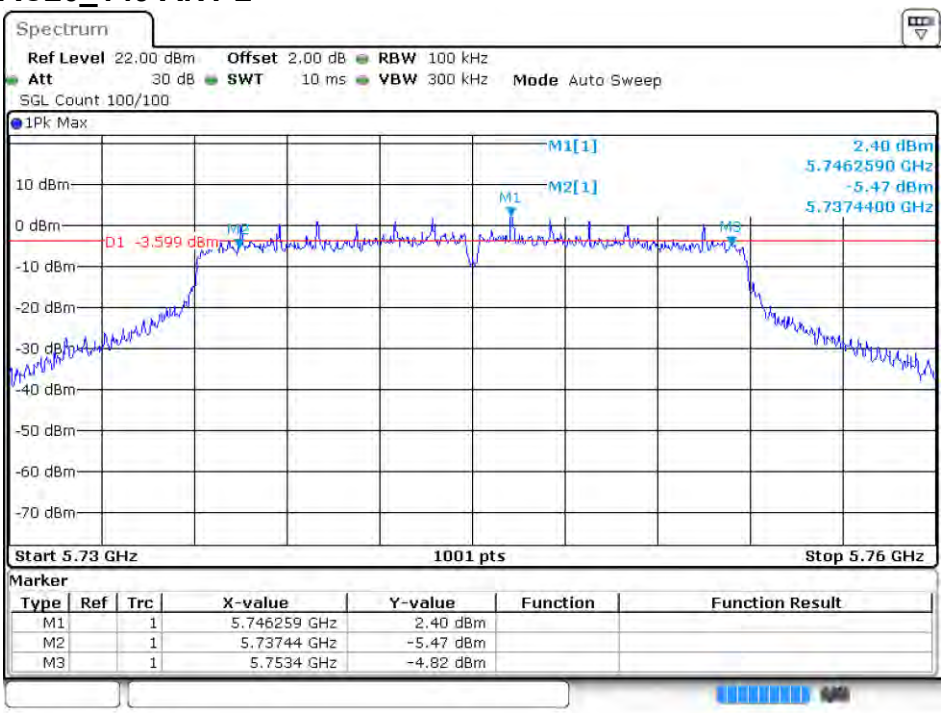
4.6.2.26 11AC20_149 ANT 2



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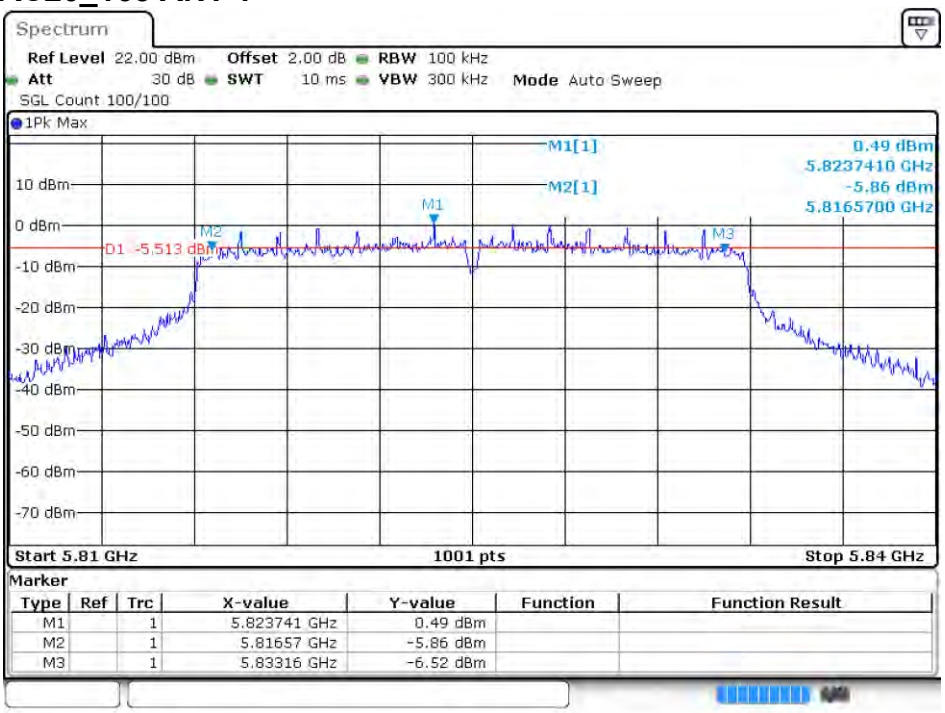
4.6.2.27 11AC20_165 ANT 1



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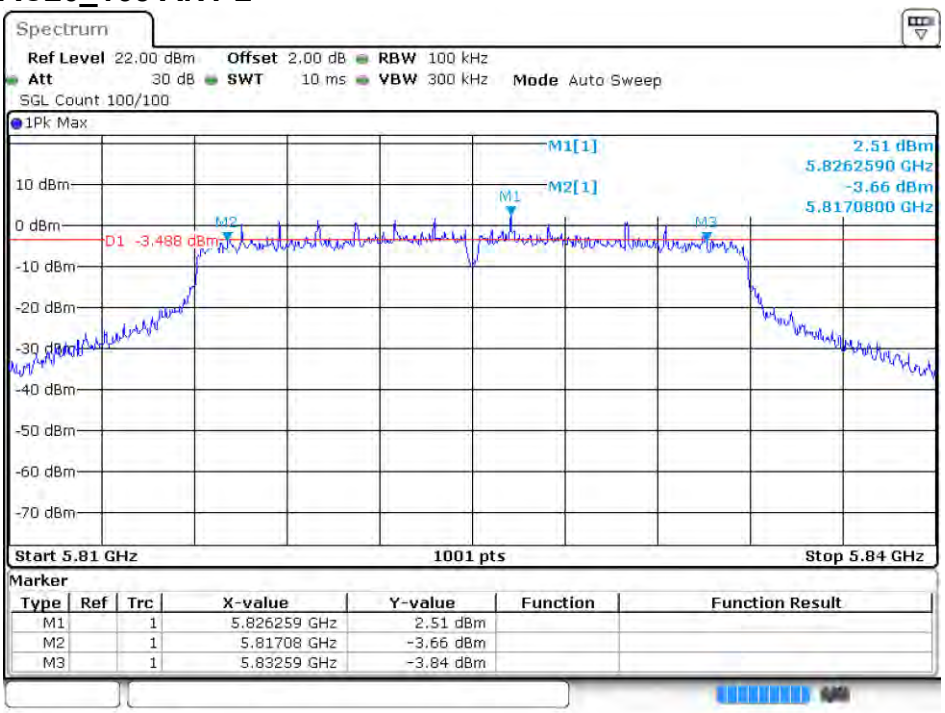
4.6.2.28 11AC20_165 ANT 2



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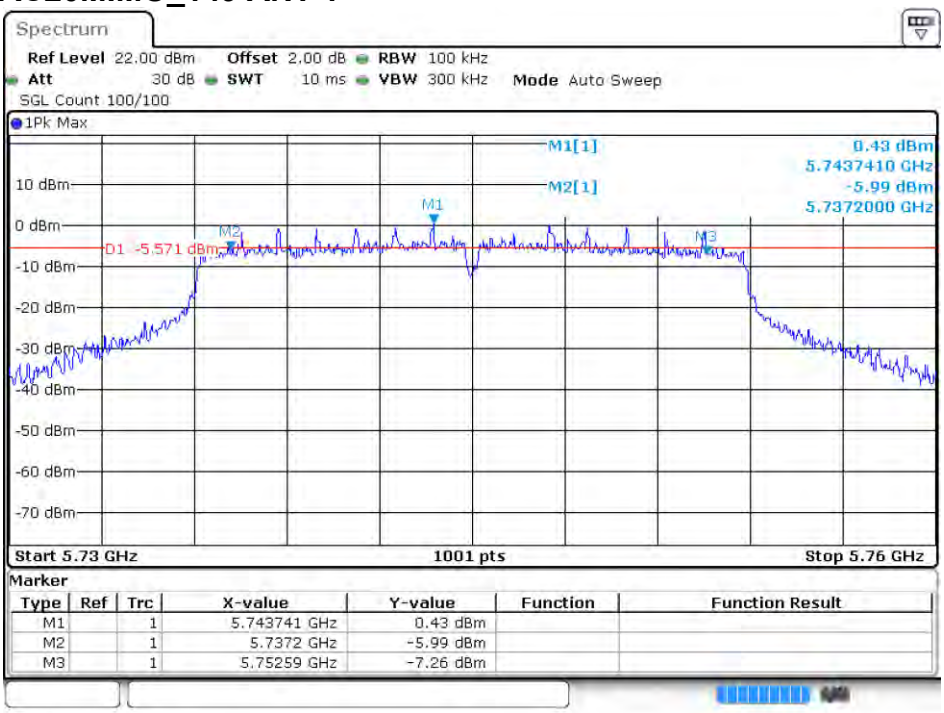
4.6.2.29 11AC20MIMO_149 ANT 1



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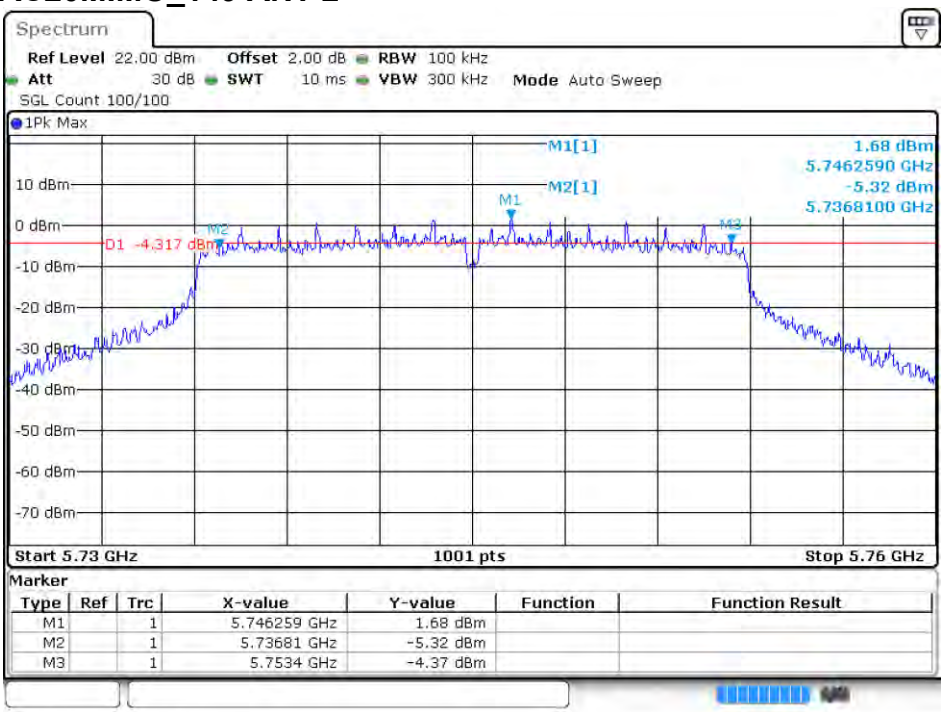
4.6.2.30 11AC20MIMO_149 ANT 2



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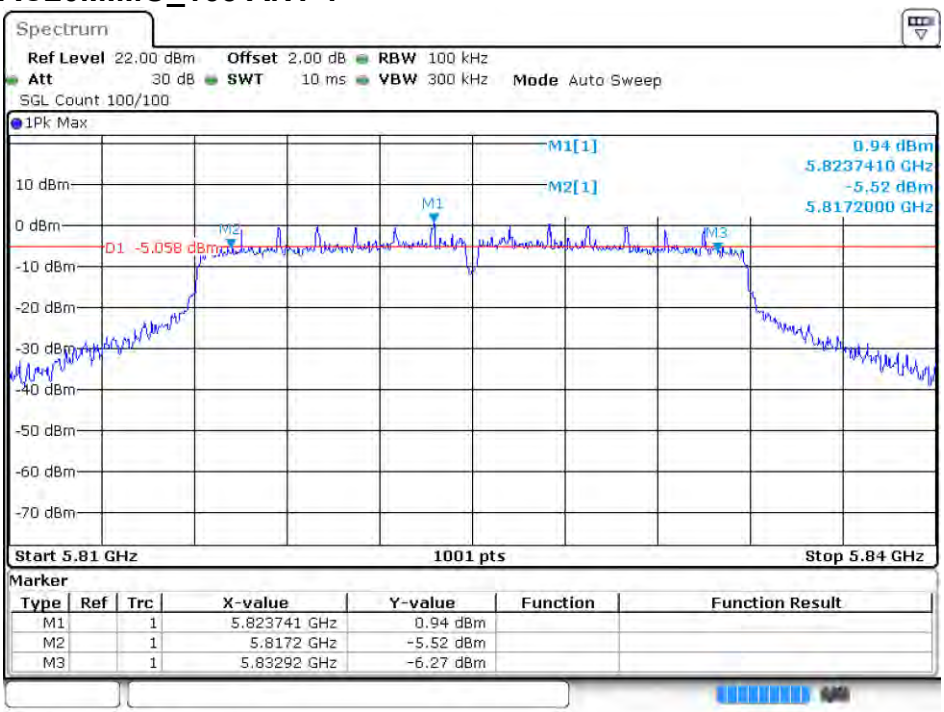
4.6.2.31 11AC20MIMO_165 ANT 1

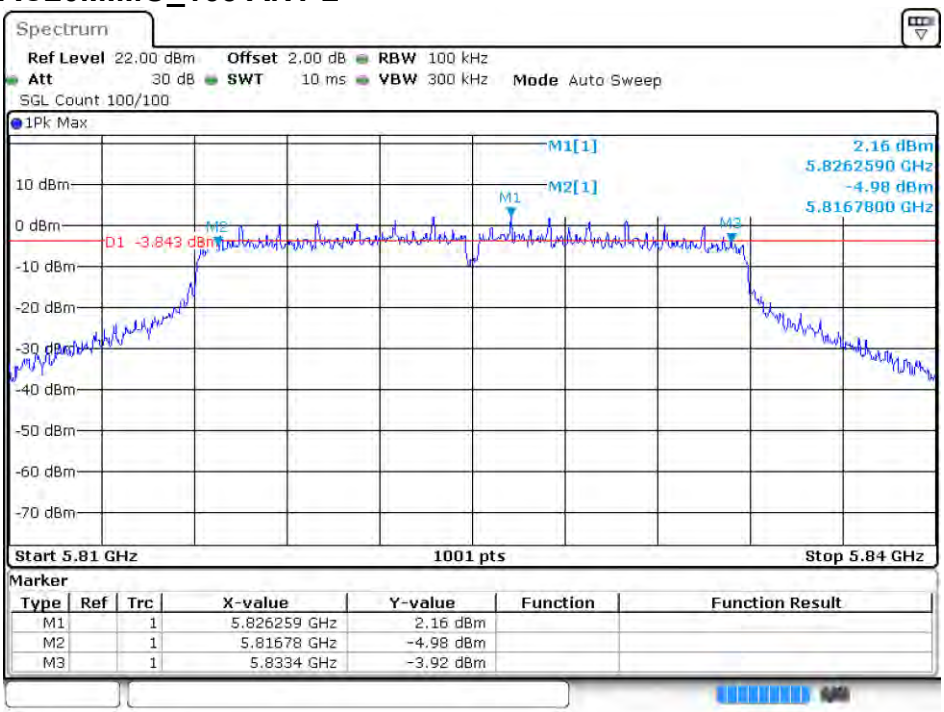


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.823741 GHz	0.94 dBm		
M2		1	5.8172 GHz	-5.52 dBm		
M3		1	5.83292 GHz	-6.27 dBm		

Date: 1.JAN.2020 07:57:05

4.6.2.32 11AC20MIMO_165 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.826259 GHz	2.16 dBm		
M2		1	5.81678 GHz	-4.98 dBm		
M3		1	5.8334 GHz	-3.92 dBm		

Date: 3.JAN.2020 01:14:58

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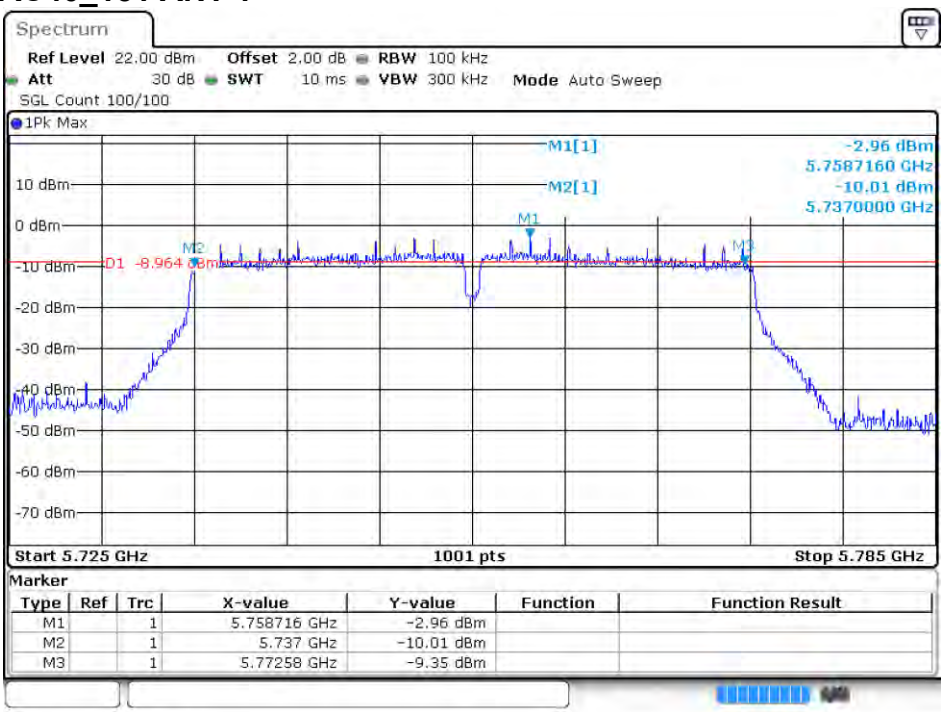
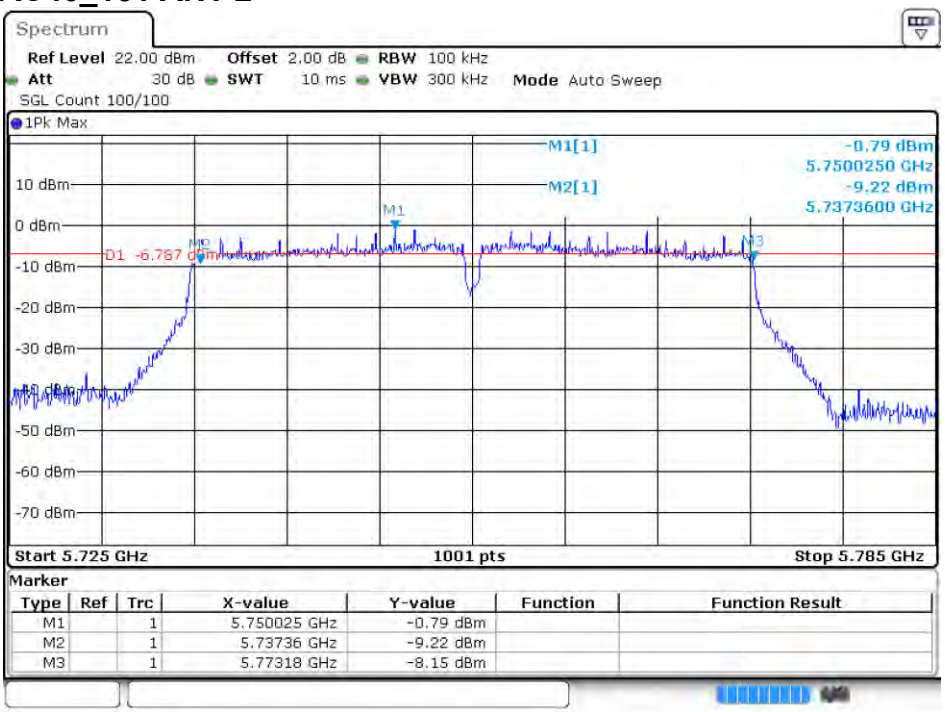
4.6.2.33 11AC40_151 ANT 1



Date: 1.JAN.2020 05:25:14

4.6.2.34 11AC40_151 ANT 2



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

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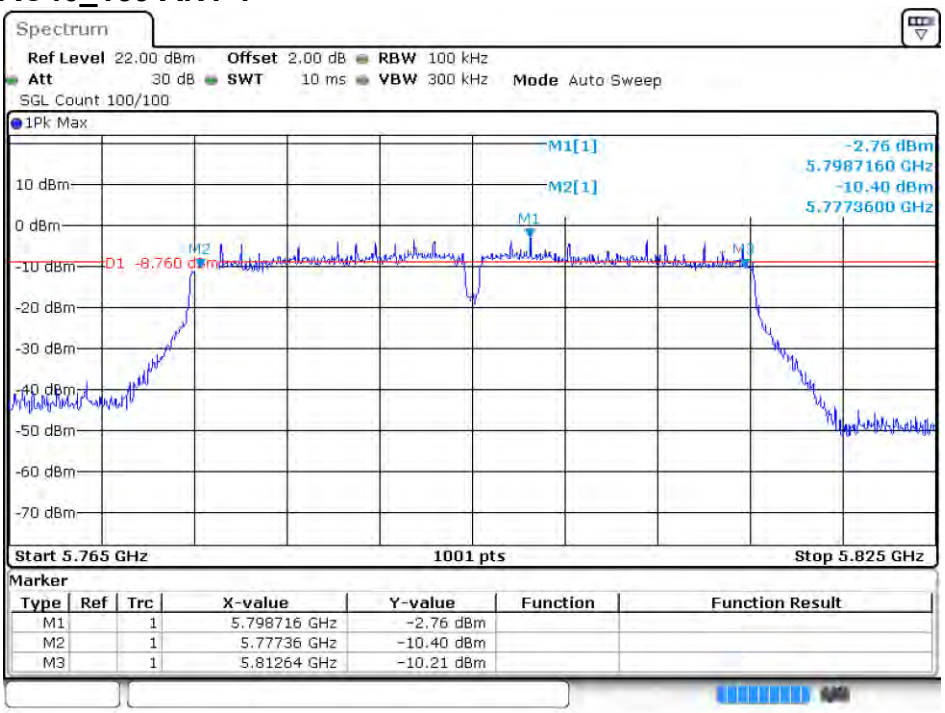
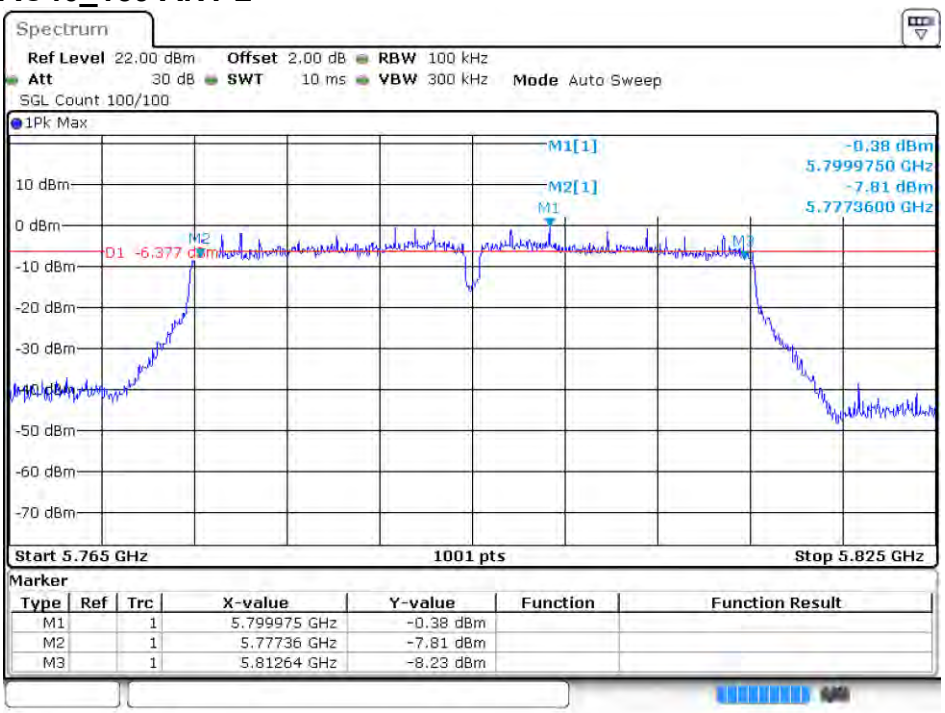
4.6.2.35 11AC40_159 ANT 1



Date: 1.JAN.2020 05:26:07

4.6.2.36 11AC40_159 ANT 2



Date: 1.JAN.2020 06:26:06

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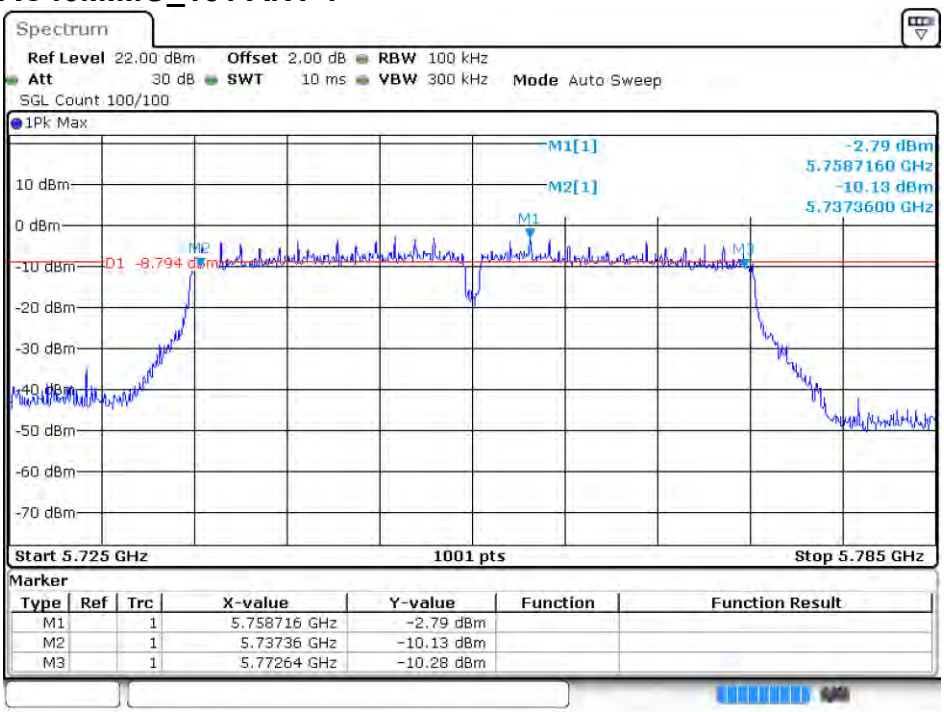
4.6.2.37 11AC40MIMO_151 ANT 1

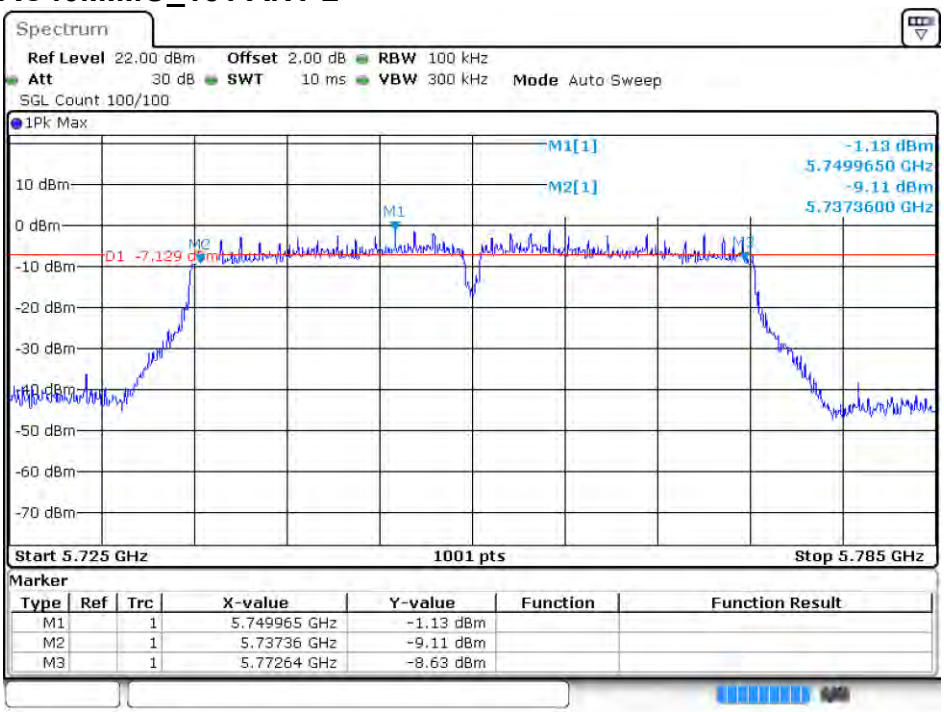


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.758716 GHz	-2.79 dBm		
M2		1	5.73736 GHz	-10.13 dBm		
M3		1	5.77264 GHz	-10.28 dBm		

Date: 3.JAN.2020 03:33:00

4.6.2.38 11AC40MIMO_151 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.749965 GHz	-1.13 dBm		
M2		1	5.73736 GHz	-9.11 dBm		
M3		1	5.77264 GHz	-8.63 dBm		

Date: 3.JAN.2020 02:02:25

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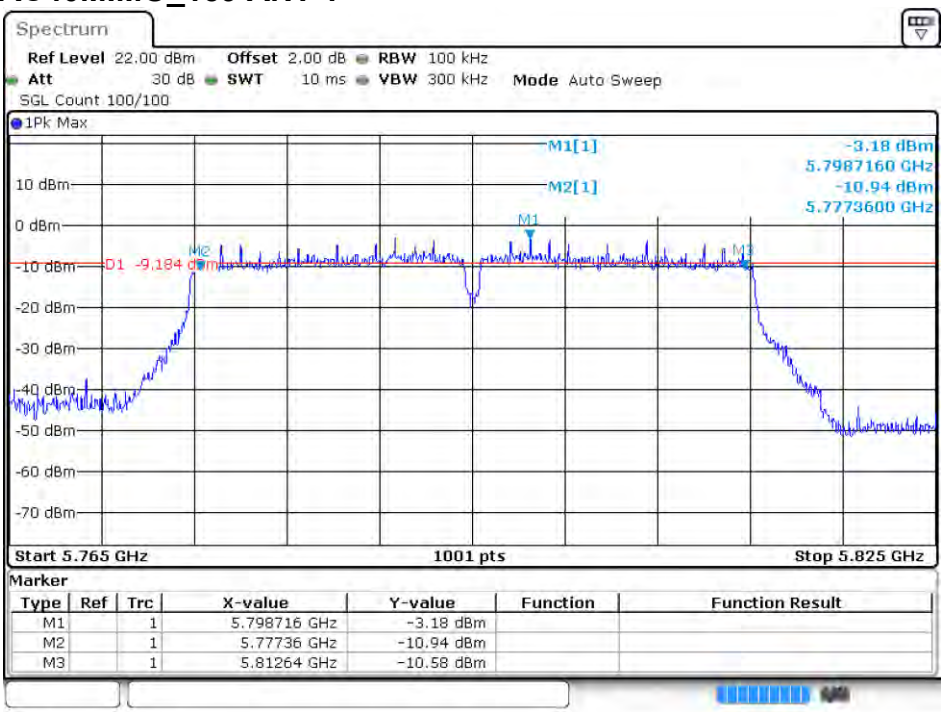
4.6.2.39 11AC40MIMO_159 ANT 1

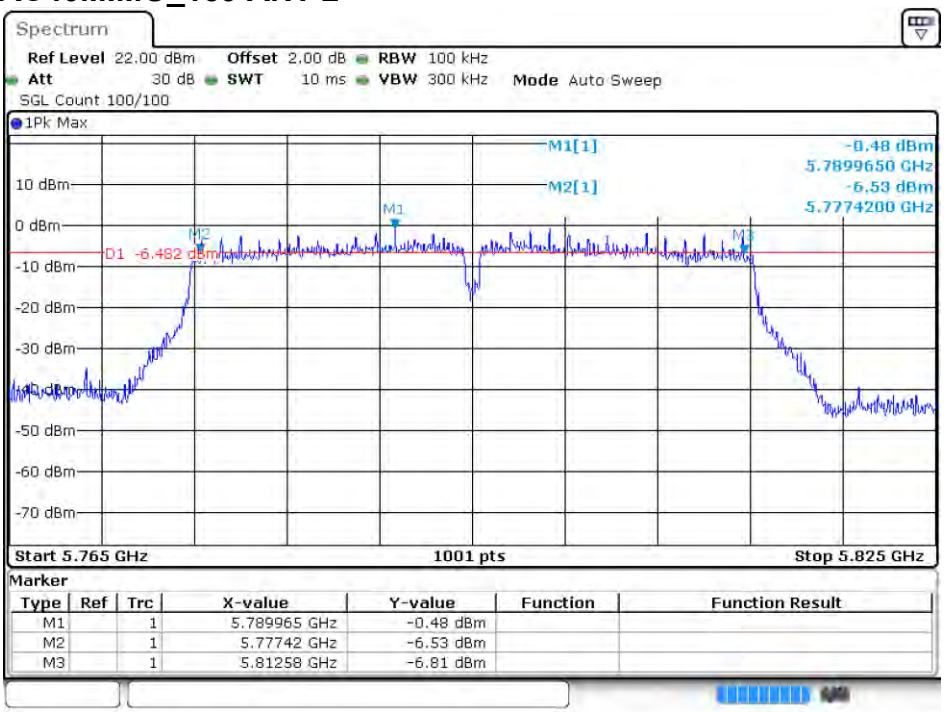


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.798716 GHz	-3.18 dBm		
M2		1	5.77736 GHz	-10.94 dBm		
M3		1	5.81264 GHz	-10.58 dBm		

Date: 3.JAN.2020 03:34:05

4.6.2.40 11AC40MIMO_159 ANT 2



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.789965 GHz	-0.48 dBm		
M2		1	5.77742 GHz	-6.53 dBm		
M3		1	5.81258 GHz	-6.81 dBm		

Date: 3.JAN.2020 02:03:34

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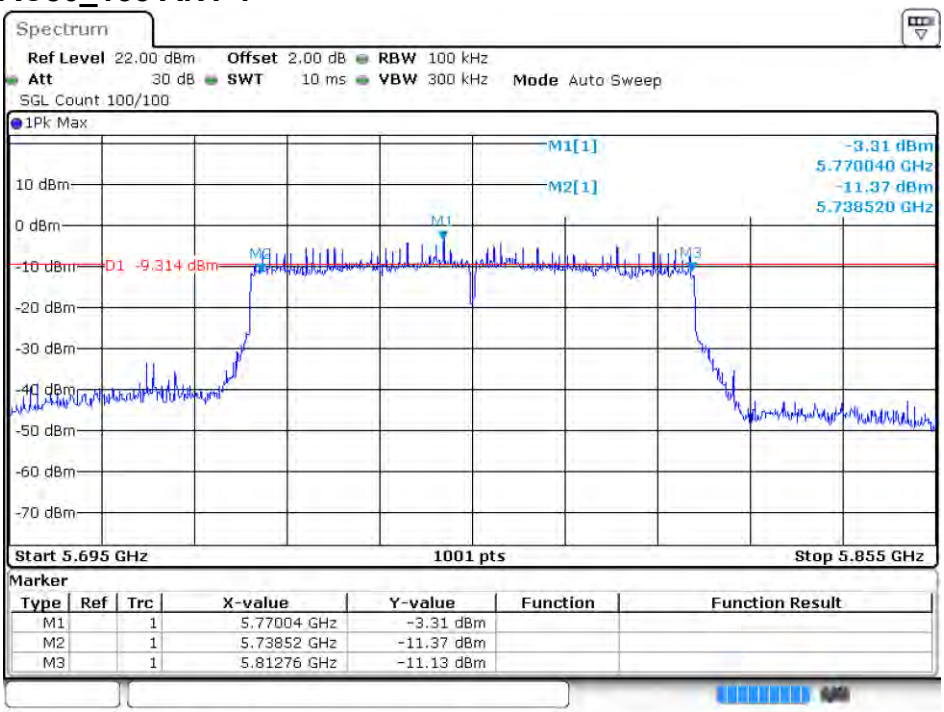
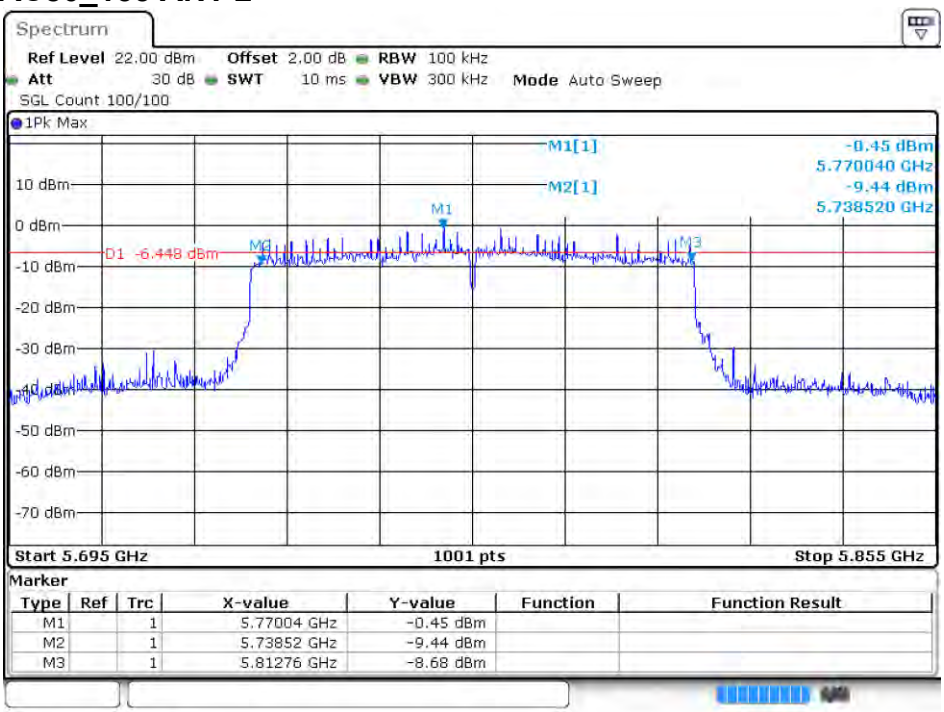
4.6.2.41 11AC80_155 ANT 1



Date: 1.JAN.2020 05:46:41

4.6.2.42 11AC80_155 ANT 2



Date: 1.JAN.2020 06:44:40

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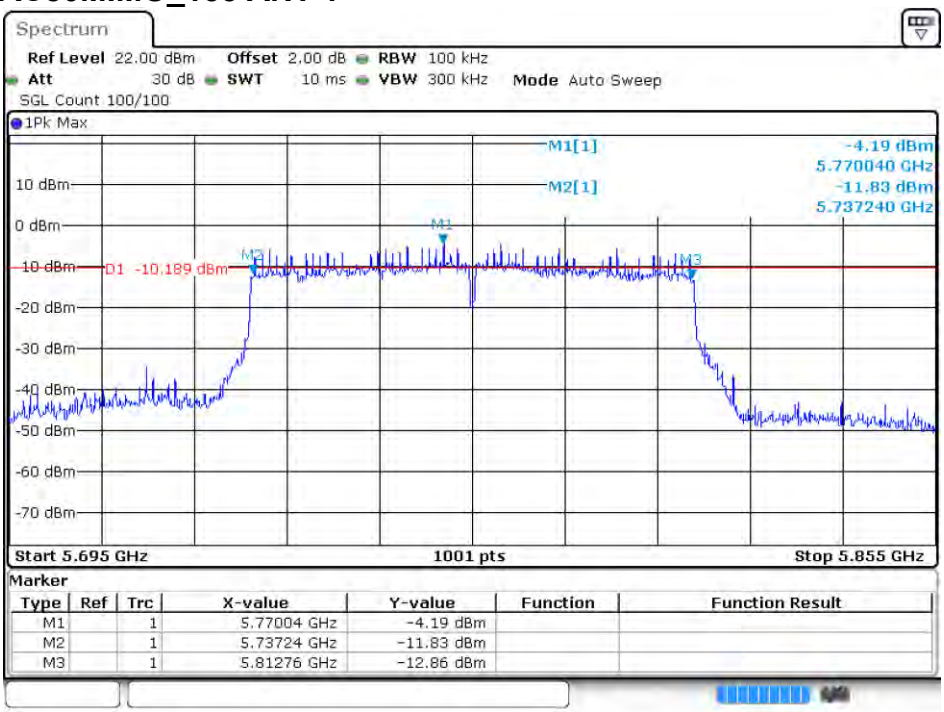
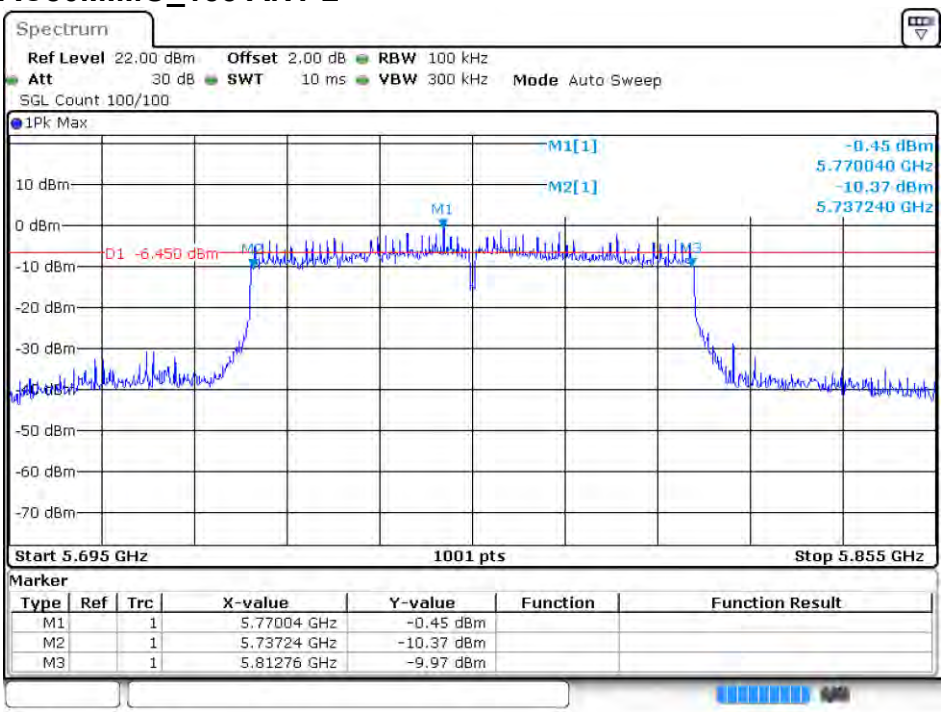
4.6.2.43 11AC80MIMO_155 ANT 1



Date: 3.JAN.2020 03:45:30

4.6.2.44 11AC80MIMO_155 ANT 2



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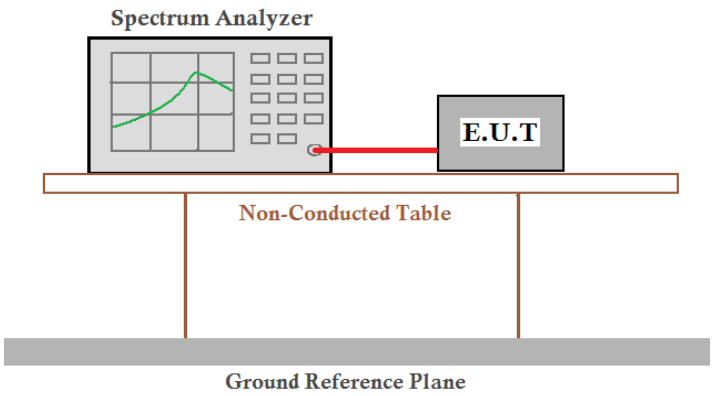
4.7 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80). Only the worst case is recorded in the report.
Test Results:	Pass

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4.7.1 Test Results For 99% Occupied Bandwidth

Test Mode	Test Channel	Frequency [MHz]	Occupied Bandwidth		Verdict
			ANT 1	ANT 2	
11A20	36	5180	16.78	16.93	PASS
	48	5240	16.78	17.02	PASS
	52	5260	16.78	17.11	PASS
	64	5320	16.81	17.08	PASS
	100	5500	16.78	16.90	PASS
	140	5700	16.93	17.08	PASS
	149	5745	16.78	16.72	PASS
	165	5825	16.72	16.69	PASS
11A20 CDD	36	5180	16.78	16.72	PASS
	48	5240	16.75	16.72	PASS
	52	5260	16.75	16.72	PASS
	64	5320	16.81	16.75	PASS
	100	5500	16.78	16.72	PASS
	140	5700	16.87	16.69	PASS
	149	5745	16.75	16.69	PASS
	165	5825	16.72	16.72	PASS
11N20	36	5180	17.92	16.87	PASS
	48	5240	17.89	16.96	PASS
	52	5260	17.89	17.02	PASS
	64	5320	17.92	16.99	PASS
	100	5500	17.95	17.05	PASS
	140	5700	17.92	16.75	PASS
	144	5720	18.00	18.00	PASS
	149	5745	17.92	17.92	PASS
	165	5825	17.95	17.89	PASS
11N20 MIMO	36	5180	17.92	17.86	PASS
	48	5240	17.95	17.92	PASS
	52	5260	17.92	17.95	PASS
	64	5320	17.98	17.92	PASS
	100	5500	18.01	17.98	PASS
	140	5700	17.89	17.83	PASS
	144	5720	17.89	18.00	PASS
	149	5745	17.92	17.77	PASS
	165	5825	17.89	17.77	PASS
11N40	38	5190	36.32	36.26	PASS
	46	5230	36.32	36.44	PASS
	54	5270	36.32	36.50	PASS
	62	5310	36.26	36.32	PASS
	102	5510	36.26	36.32	PASS
	134	5670	36.38	36.50	PASS
	142	5710	36.35	36.35	PASS

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	151	5755	36.32	36.32	PASS
	159	5795	36.32	36.26	PASS
11N40 MIMO	38	5190	36.20	36.20	PASS
	46	5230	36.32	36.26	PASS
	54	5270	36.26	36.32	PASS
	62	5310	36.32	36.20	PASS
	102	5510	36.26	36.14	PASS
	134	5670	36.38	36.26	PASS
	142	5710	36.35	36.35	PASS
	151	5755	36.26	36.14	PASS
	159	5795	36.32	36.20	PASS
11AC20	36	5180	17.92	17.98	PASS
	48	5240	17.89	18.04	PASS
	52	5260	17.89	18.04	PASS
	64	5320	17.92	18.04	PASS
	100	5500	17.95	18.07	PASS
	140	5700	17.92	17.95	PASS
	144	5720	17.95	18.00	PASS
	149	5745	17.92	17.89	PASS
	165	5825	17.92	17.92	PASS
11AC20 MIMO	36	5180	17.92	17.89	PASS
	48	5240	17.92	17.89	PASS
	52	5260	17.92	17.95	PASS
	64	5320	17.92	17.92	PASS
	100	5500	17.95	17.95	PASS
	140	5700	17.92	17.83	PASS
	144	5720	17.95	17.95	PASS
	149	5745	17.92	17.77	PASS
	165	5825	17.92	17.80	PASS
11AC40	38	5190	36.26	36.32	PASS
	46	5230	36.26	36.38	PASS
	54	5270	36.26	36.44	PASS
	62	5310	36.26	36.32	PASS
	102	5510	36.26	36.32	PASS
	134	5670	36.32	36.44	PASS
	142	5710	36.35	36.35	PASS
	151	5755	36.32	36.26	PASS
	159	5795	36.26	36.26	PASS
11AC40 MIMO	38	5190	36.26	36.74	PASS
	46	5230	36.32	36.26	PASS
	54	5270	36.26	36.20	PASS
	62	5310	36.26	36.32	PASS
	102	5510	36.32	36.20	PASS
	134	5670	36.26	36.14	PASS
	142	5710	36.38	36.26	PASS

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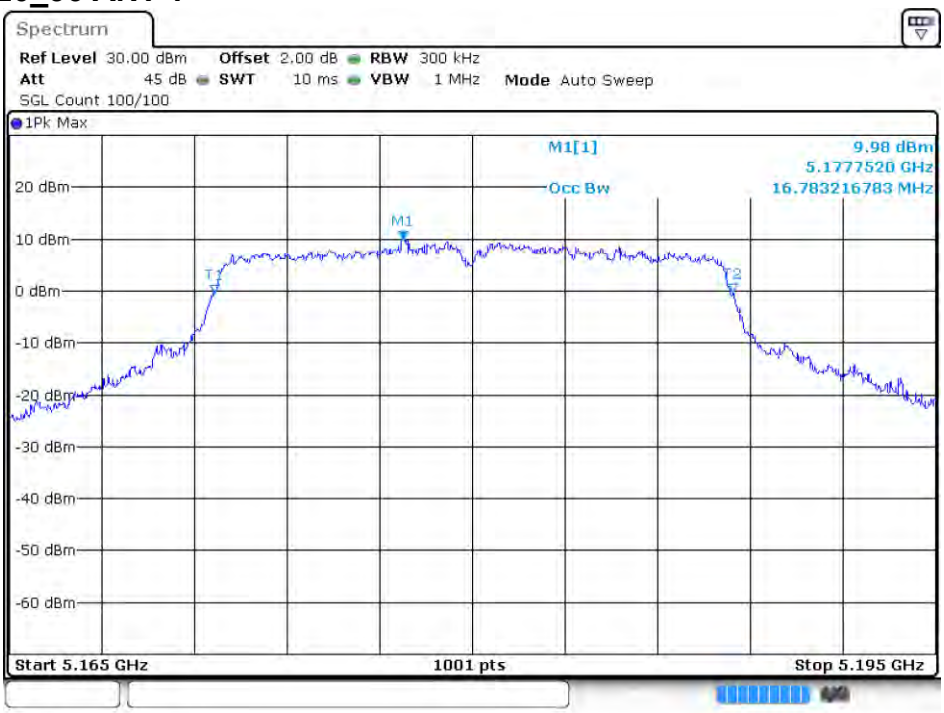
	151	5755	36.35	36.35	PASS
	159	5795	36.26	36.14	PASS
11AC80	42	5210	75.64	75.52	PASS
	58	5290	75.76	75.64	PASS
	106	5530	75.64	75.64	PASS
	138	5690	75.48	75.72	PASS
	155	5775	75.64	75.52	PASS
11AC80 MIMO	42	5210	75.64	75.52	PASS
	58	5290	75.52	75.52	PASS
	106	5530	75.64	75.52	PASS
	138	5690	75.48	75.95	PASS
	155	5775	75.64	75.52	PASS

4.7.2 Test Plots For 99% Occupied Bandwidth

4.7.2.1 11A20_36 ANT 1



Date: 1.JAN.2020 02:44:13

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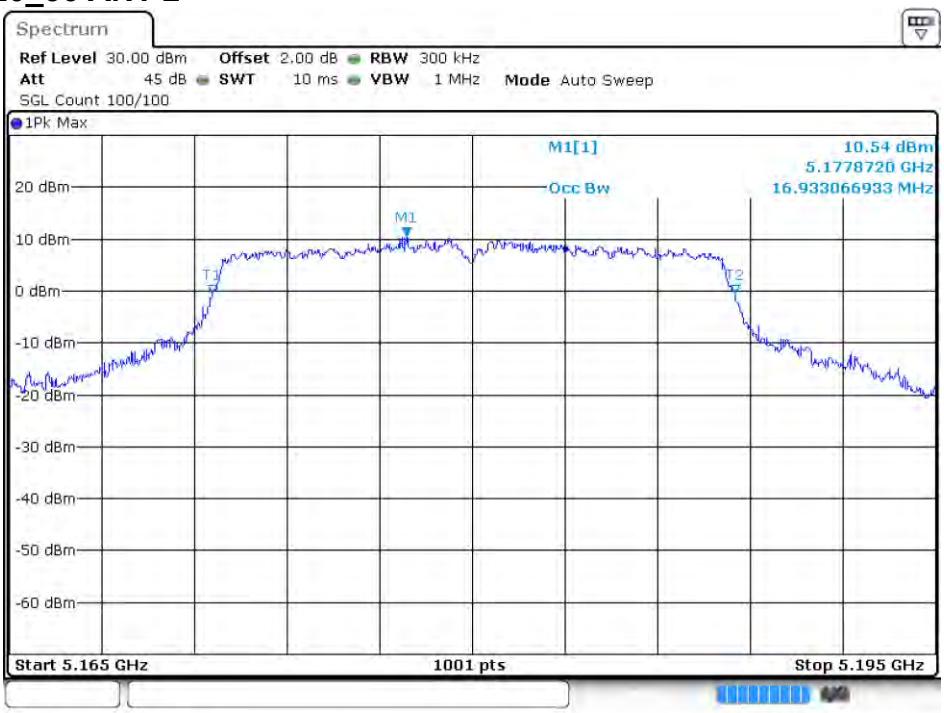
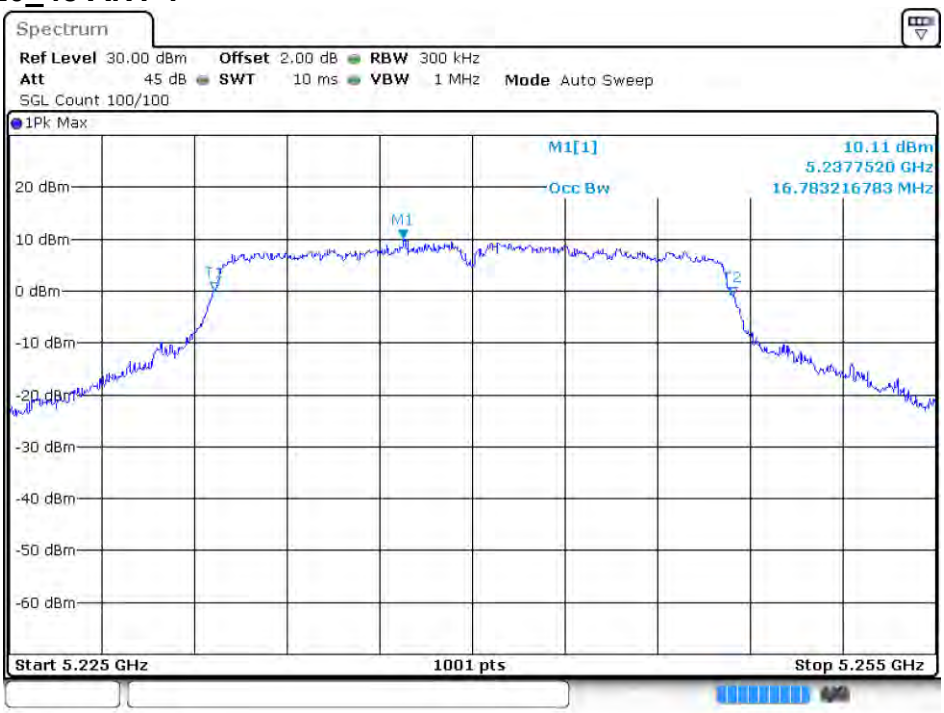
4.7.2.2 11A20_36 ANT 2



Date: 1.JAN.2020 03:08:31

4.7.2.3 11A20_48 ANT 1



Date: 1.JAN.2020 02:46:09

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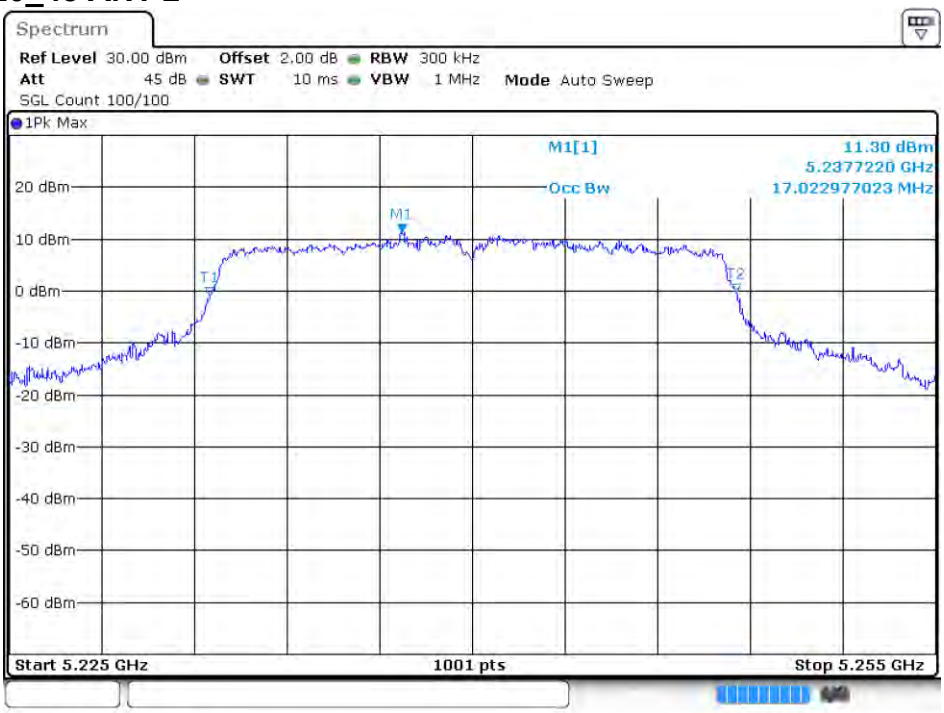
4.7.2.4 11A20_48 ANT 2



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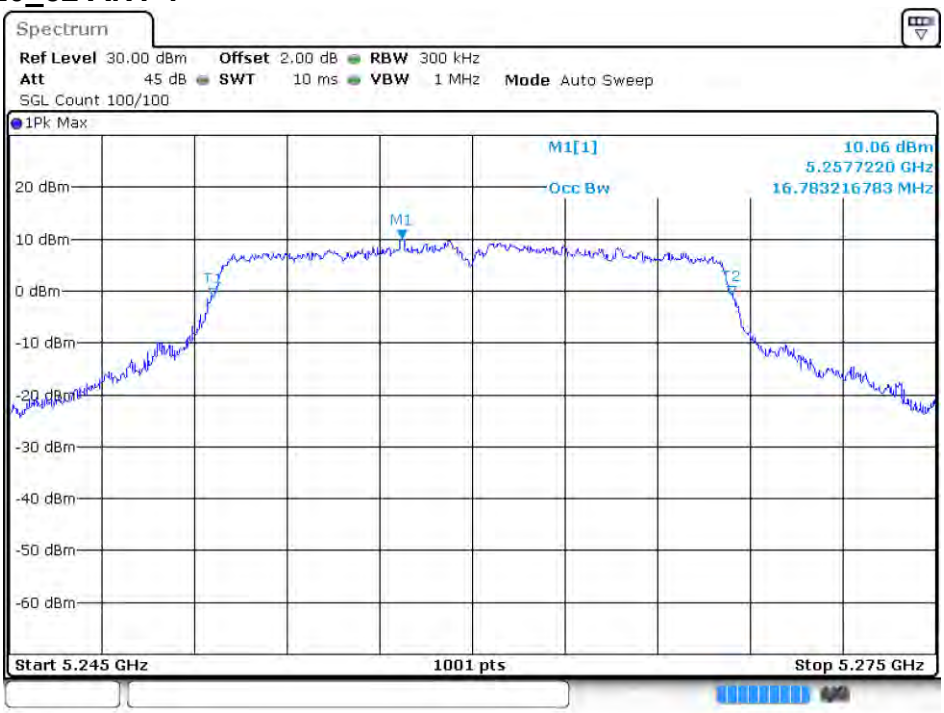
4.7.2.5 11A20_52 ANT 1



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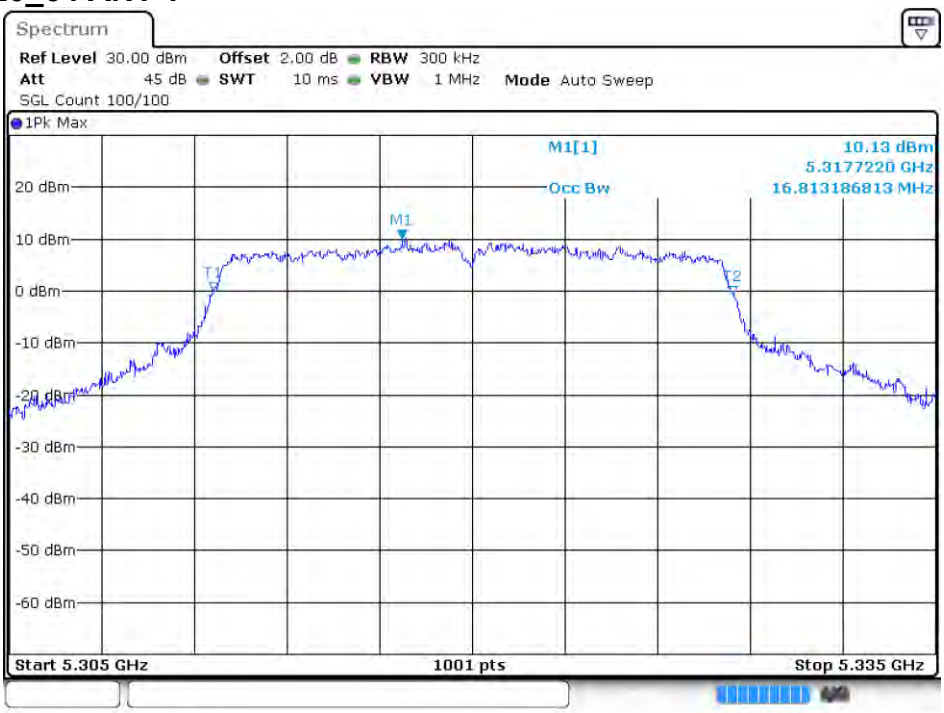
4.7.2.6 11A20_52 ANT 2

Date: 1.JAN.2020 03:12:26

4.7.2.7 11A20_64 ANT 1



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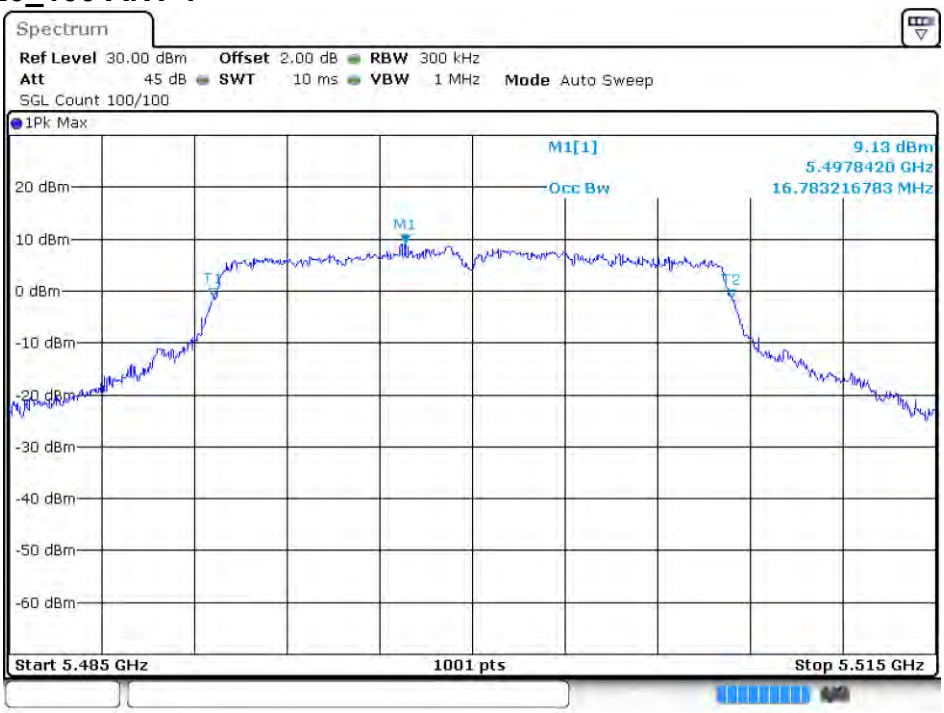
4.7.2.8 11A20_64 ANT 2

Date: 1.JAN.2020 03:15:14

4.7.2.9 11A20_100 ANT 1



Date: 1.JAN.2020 02:58:05

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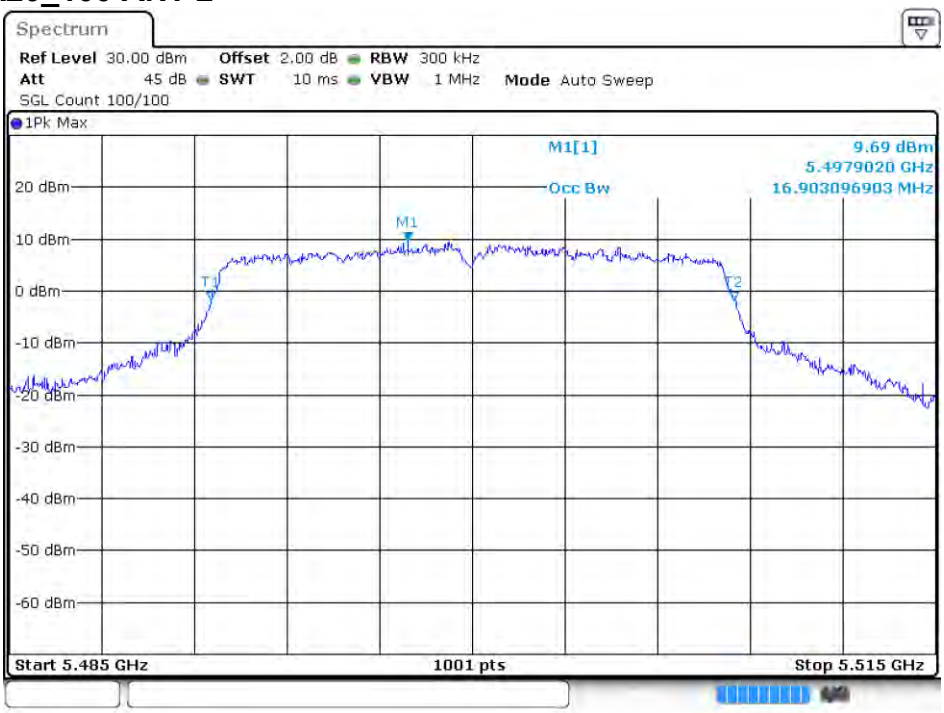
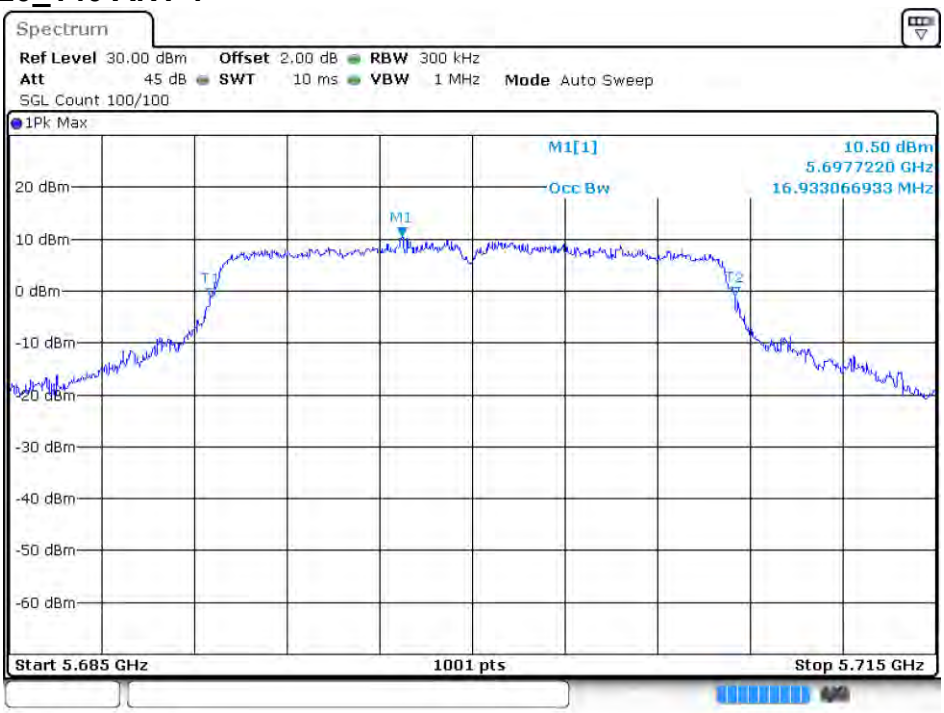
4.7.2.10 11A20_100 ANT 2



Date: 1.JAN.2020 03:19:15

4.7.2.11 11A20_140 ANT 1



Date: 1.JAN.2020 02:59:30

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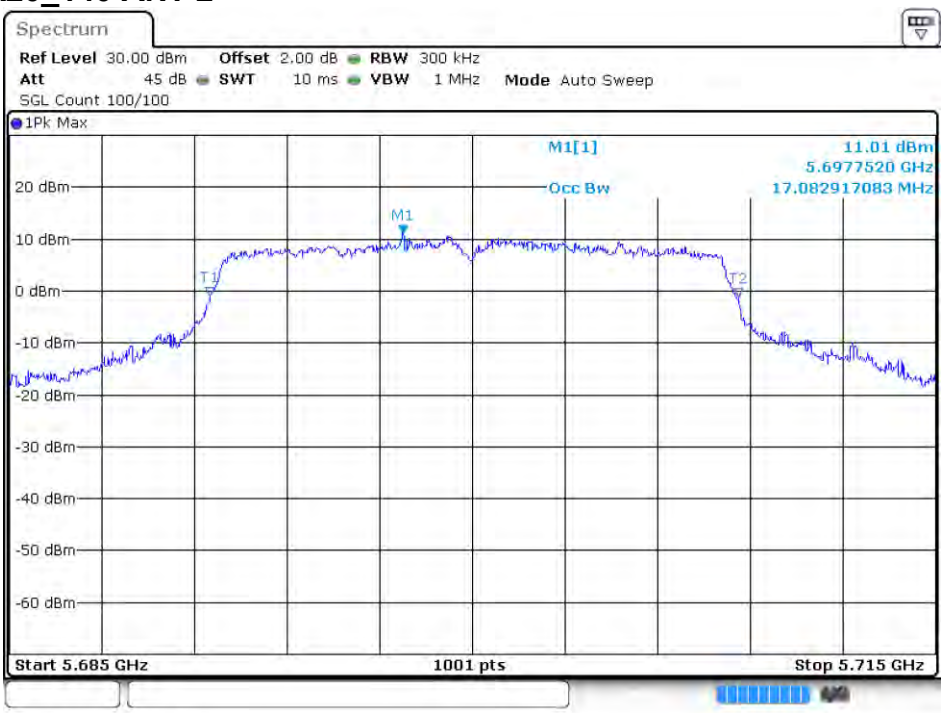
4.7.2.12 11A20_140 ANT 2



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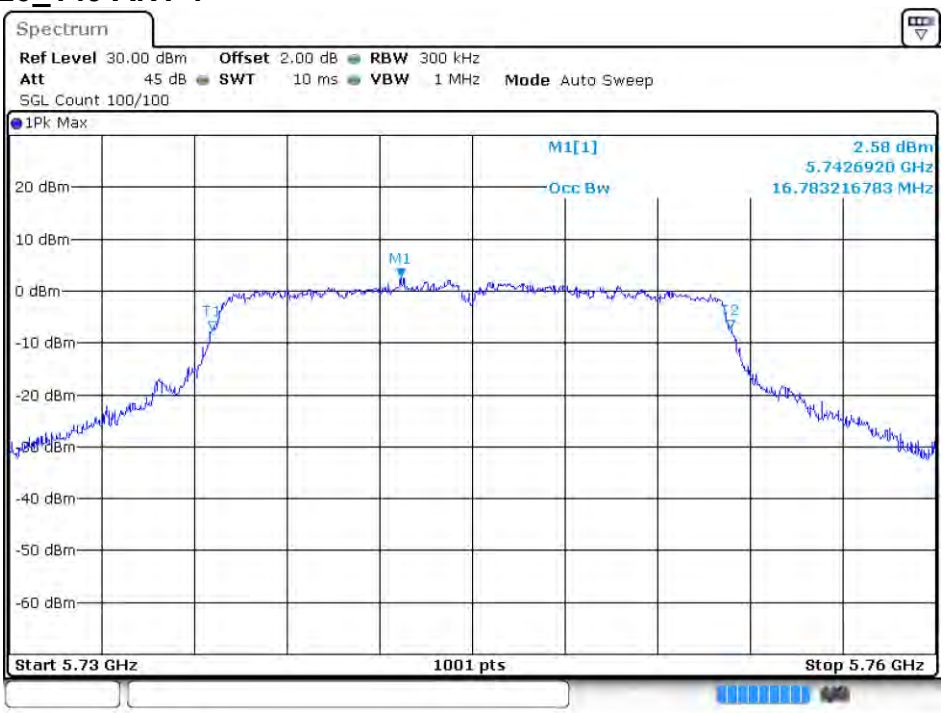
4.7.2.13 11A20_149 ANT 1



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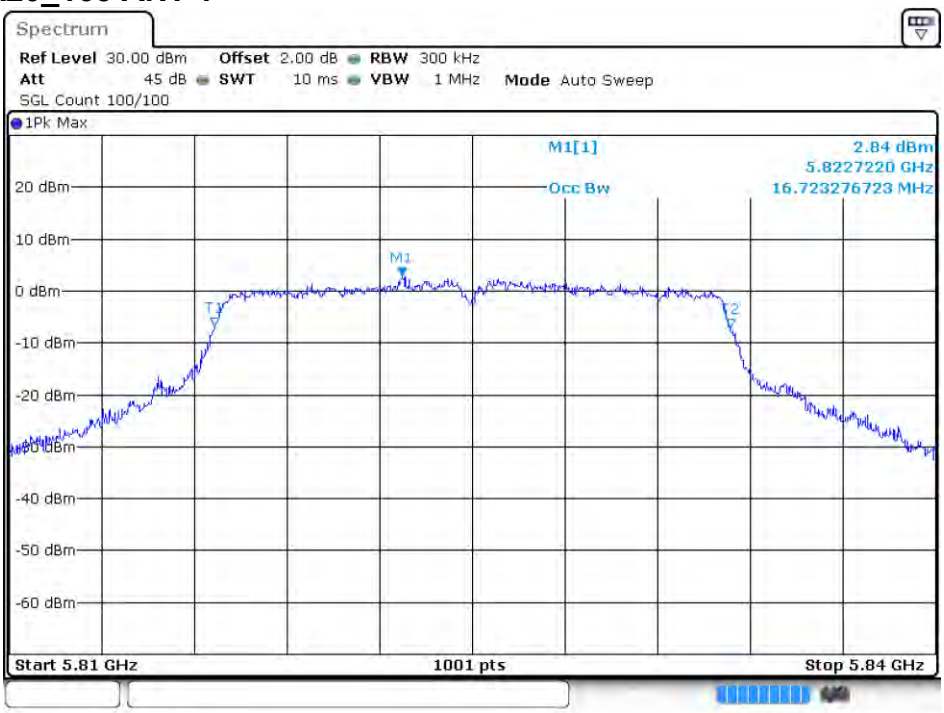
4.7.2.14 11A20_149 ANT 2

Date: 1.JAN.2020 03:23:56

4.7.2.15 11A20_165 ANT 1



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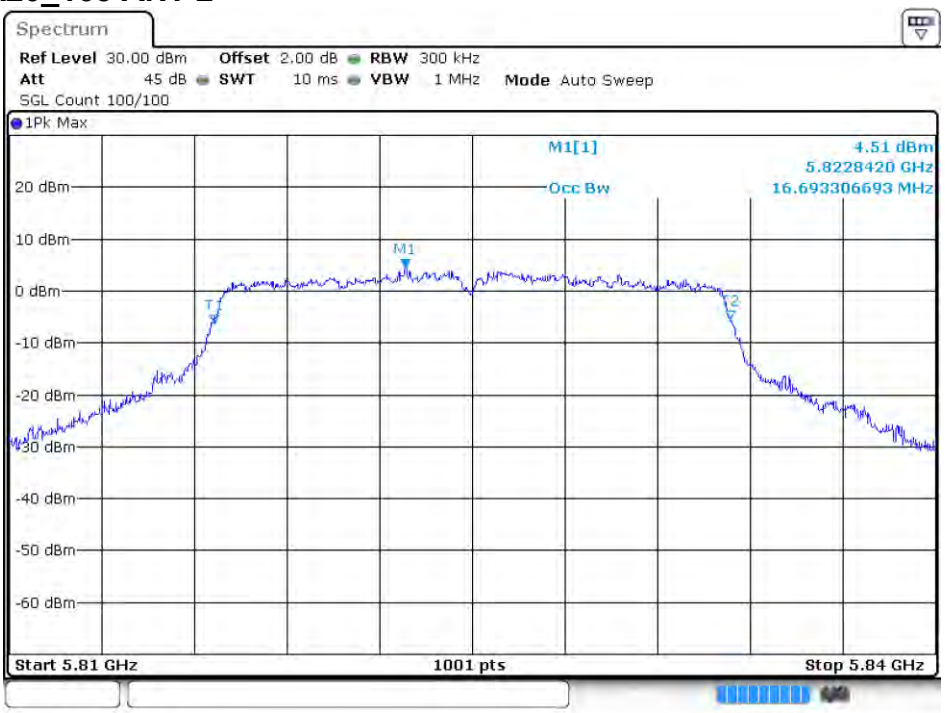
4.7.2.16 11A20_165 ANT 2



Date: 1.JAN.2020 03:25:16

4.7.2.17 11A20 CDD_36 ANT 1

Date: 15.JAN.2020 10:54:24

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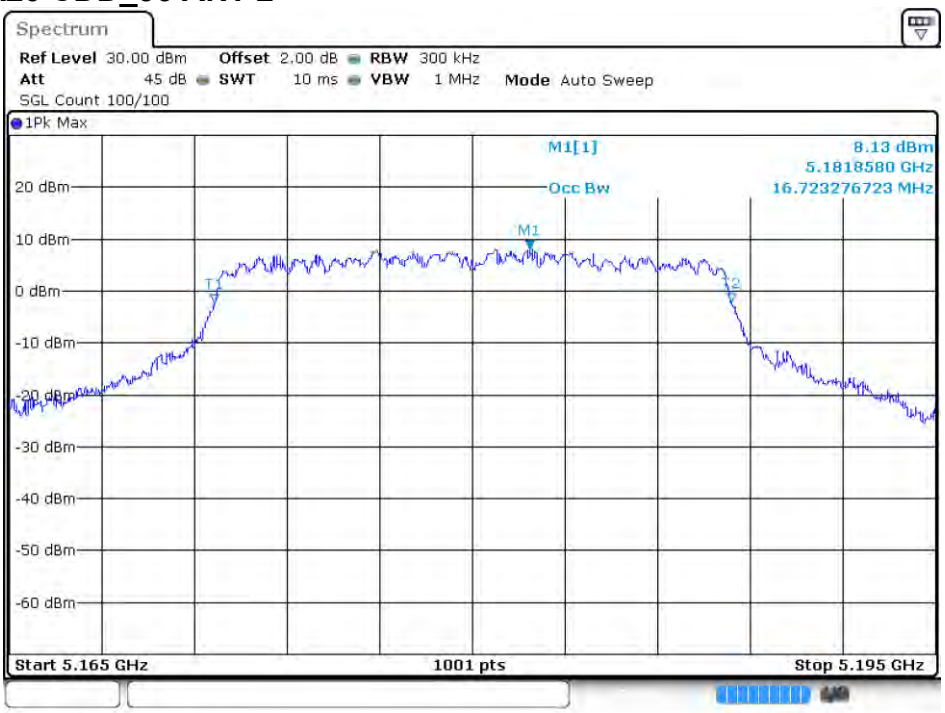
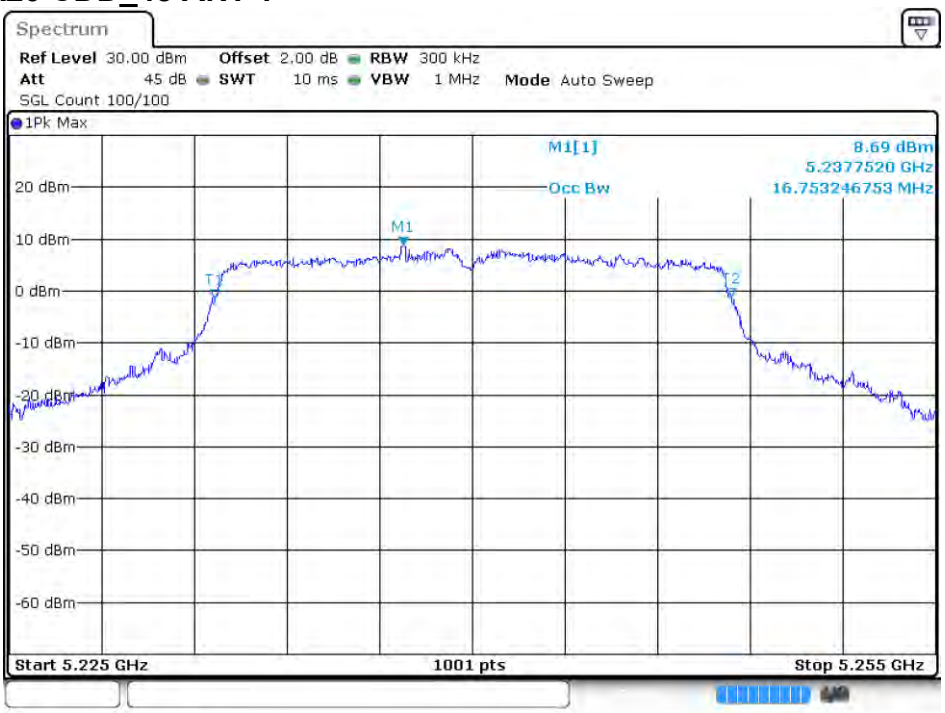
4.7.2.18 11A20 CDD_36 ANT 2



Date: 15.JAN.2020 11:04:40

4.7.2.19 11A20 CDD_48 ANT 1



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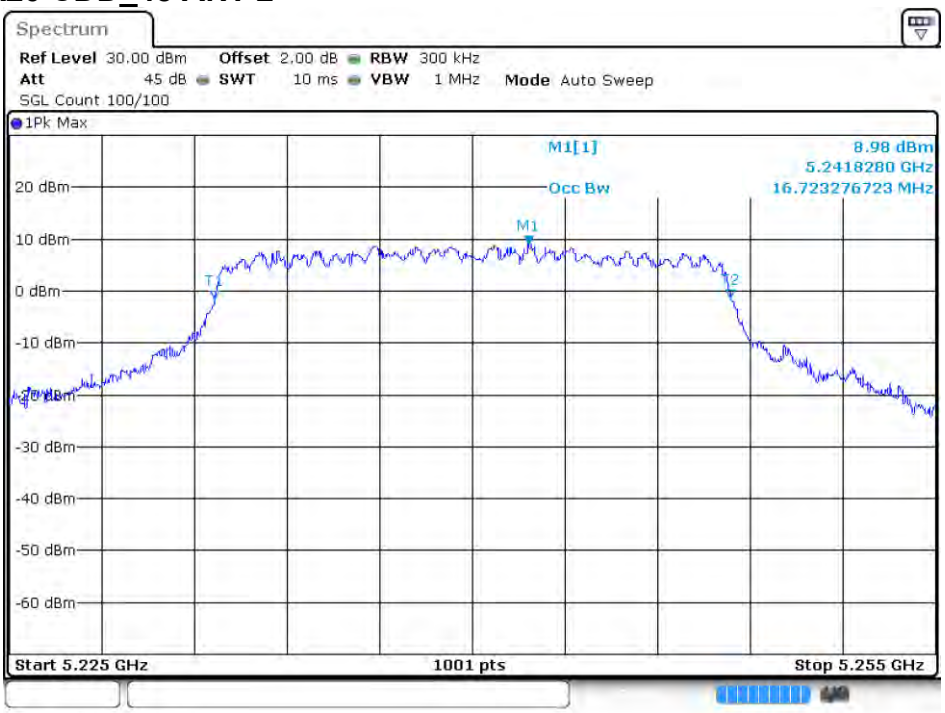
4.7.2.20 11A20 CDD_48 ANT 2



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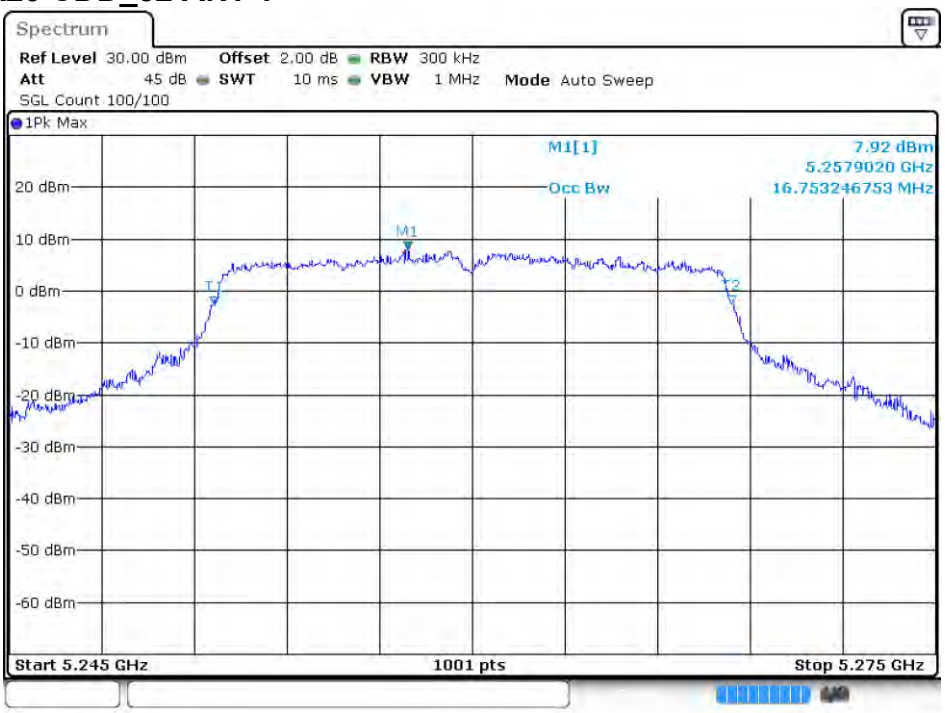
4.7.2.21 11A20 CDD_52 ANT 1



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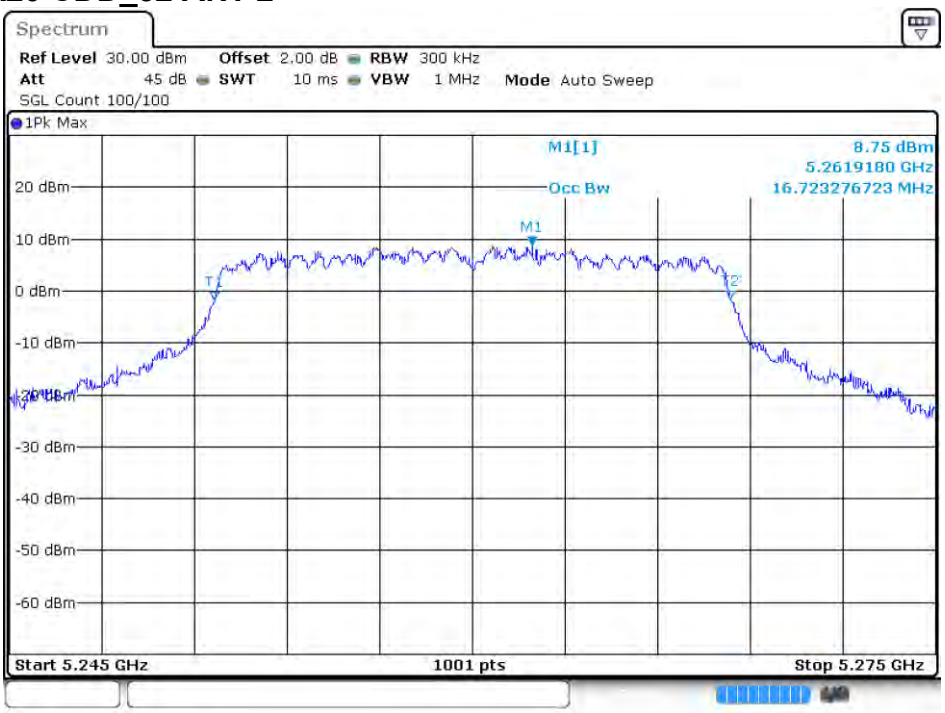

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4.7.2.23 11A20 CDD_64 ANT 1

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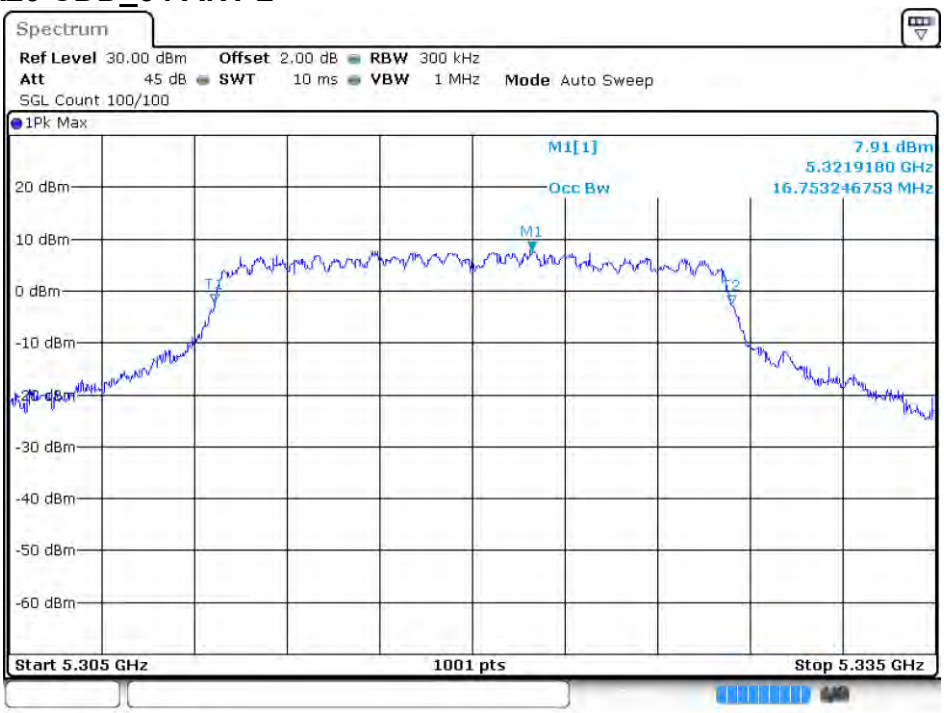
4.7.2.24 11A20 CDD_64 ANT 2



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4.7.2.25 11A20 CDD_100 ANT 1

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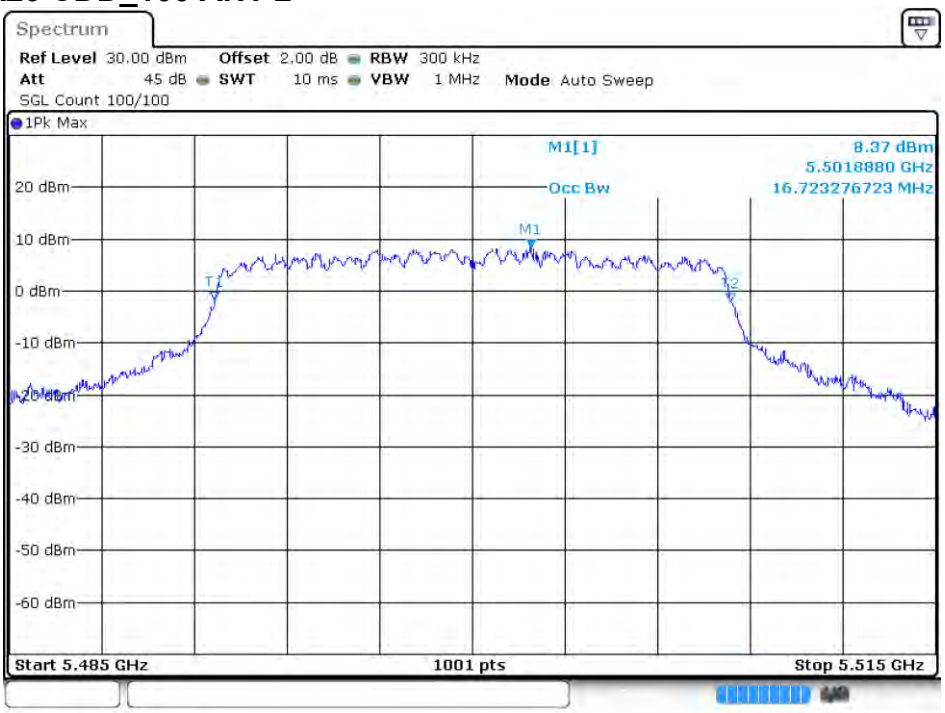

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4.7.2.27 11A20 CDD_140 ANT 1

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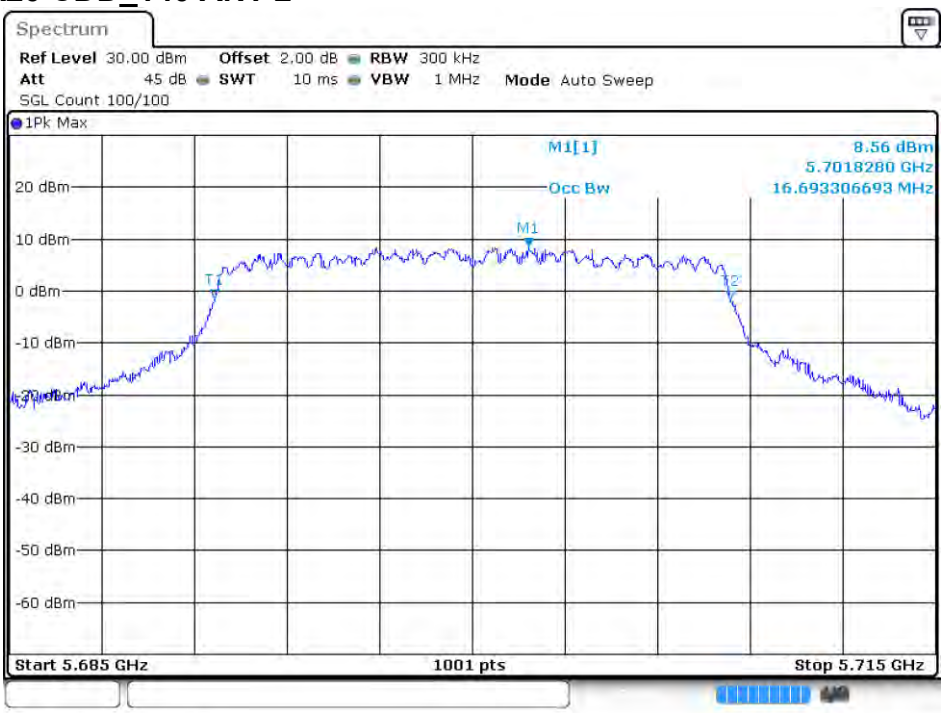

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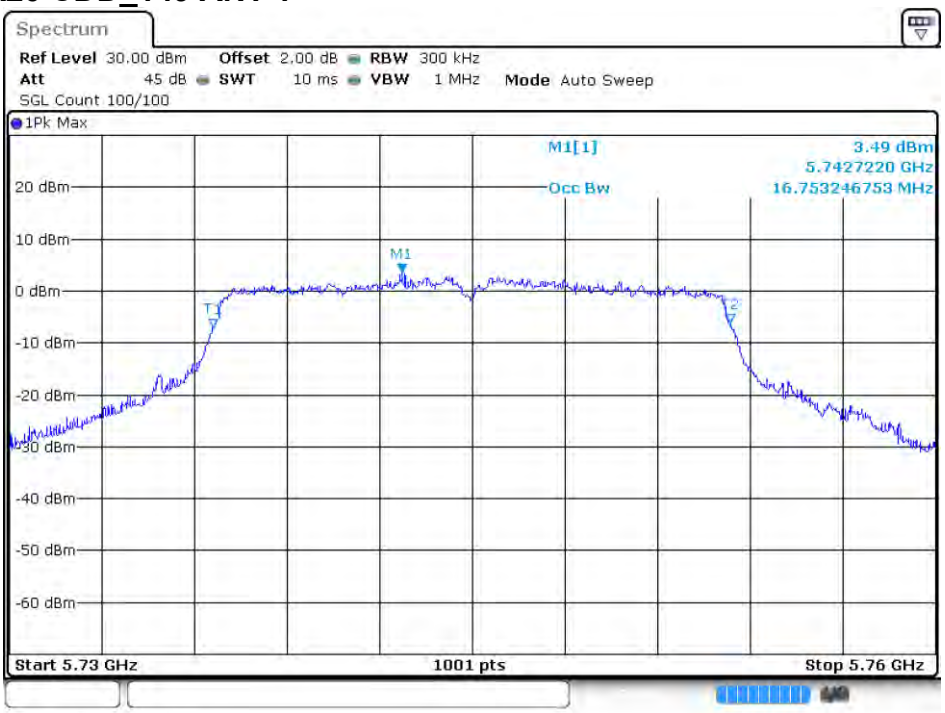

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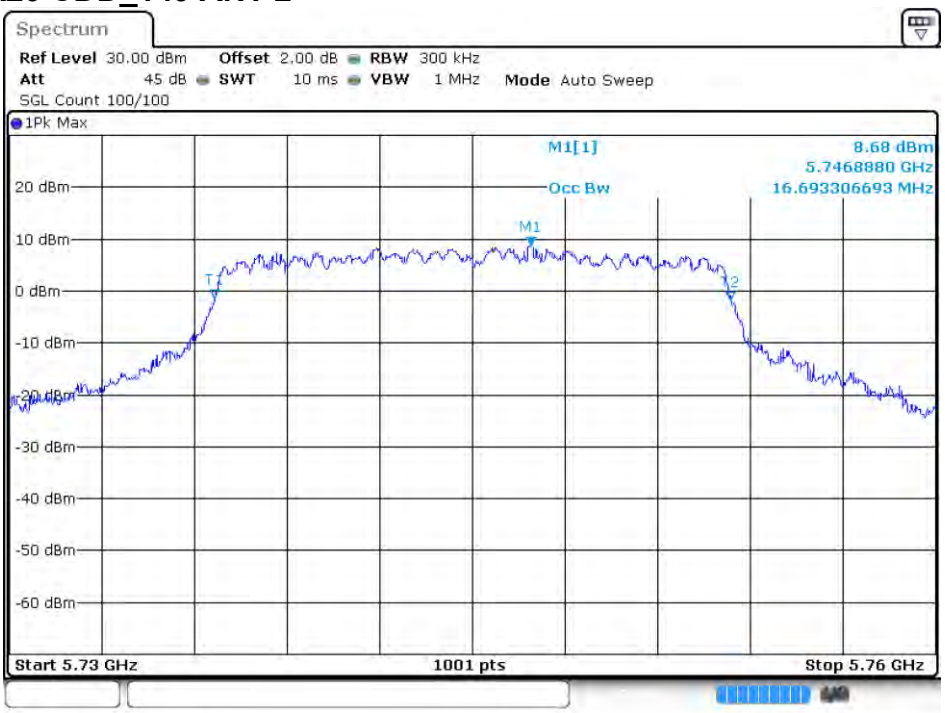
4.7.2.30 11A20 CDD_149 ANT 2



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4.7.2.31 11A20 CDD_165 ANT 1

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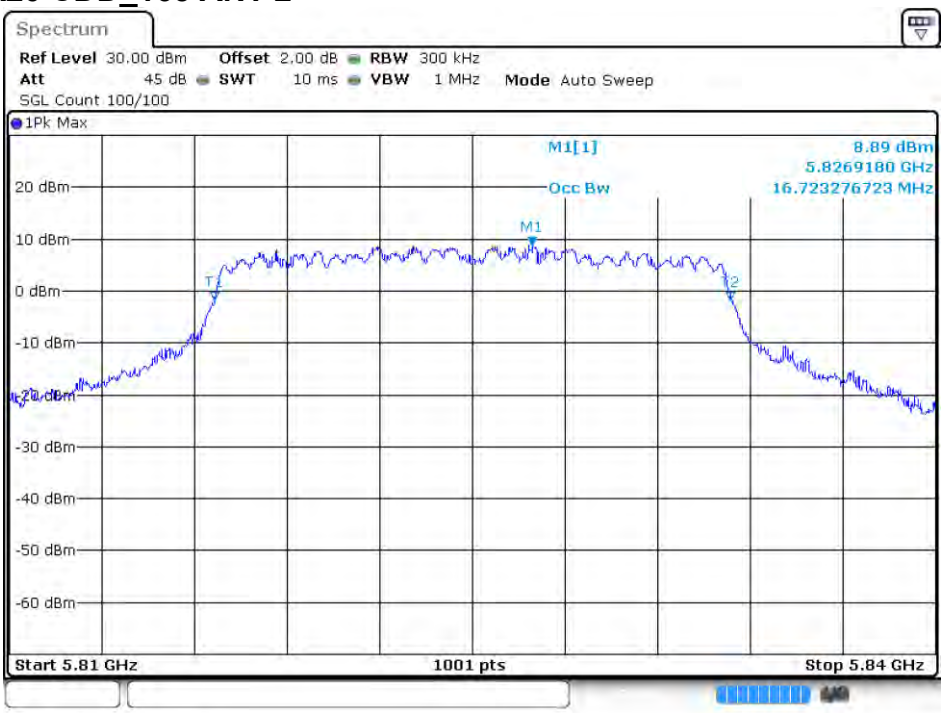

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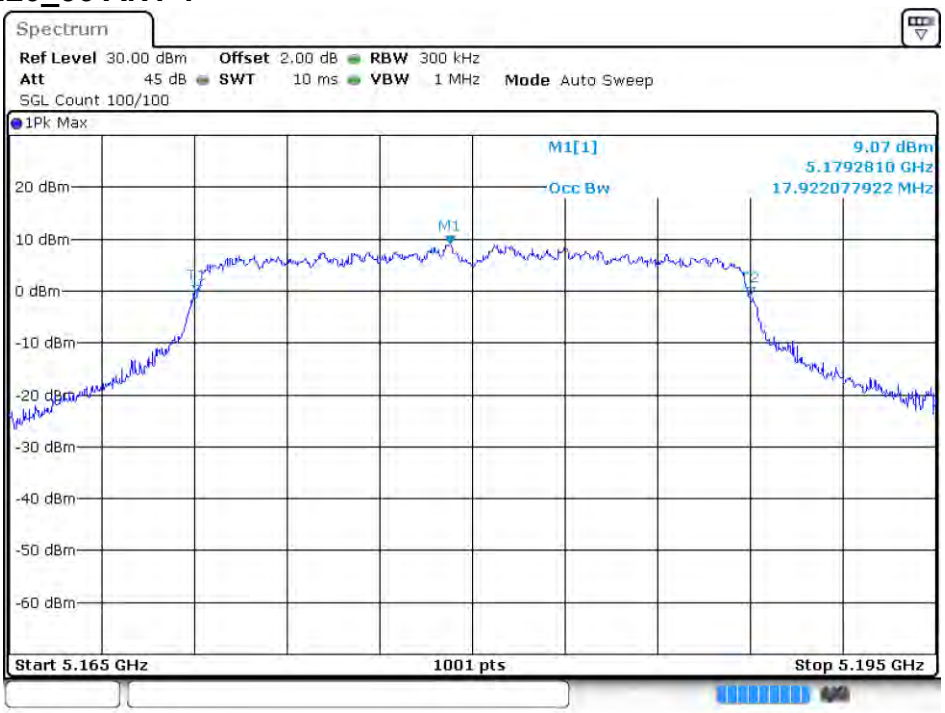

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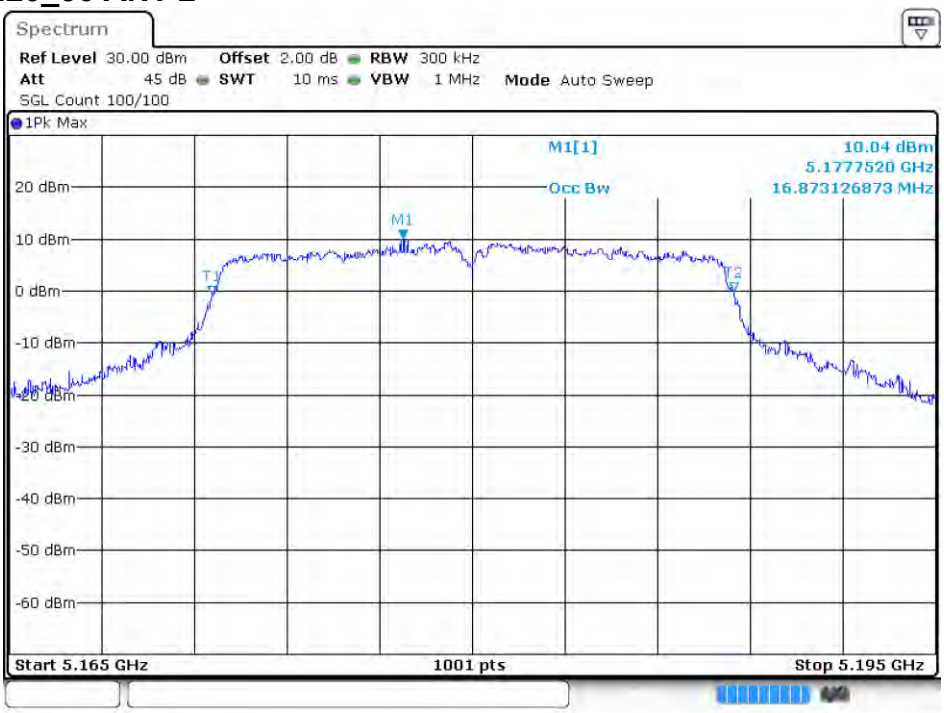

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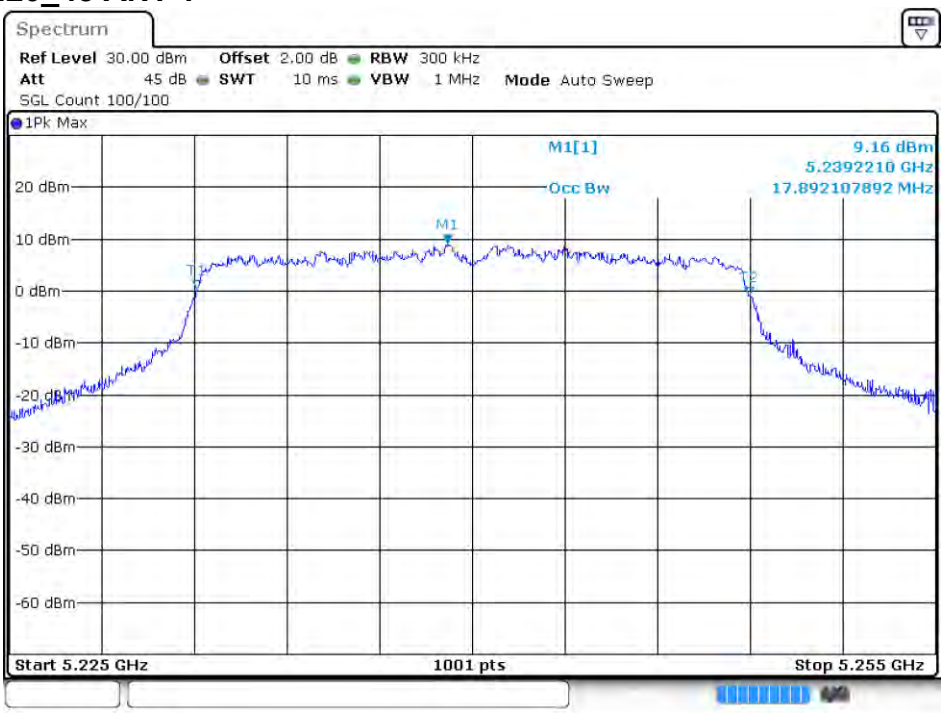

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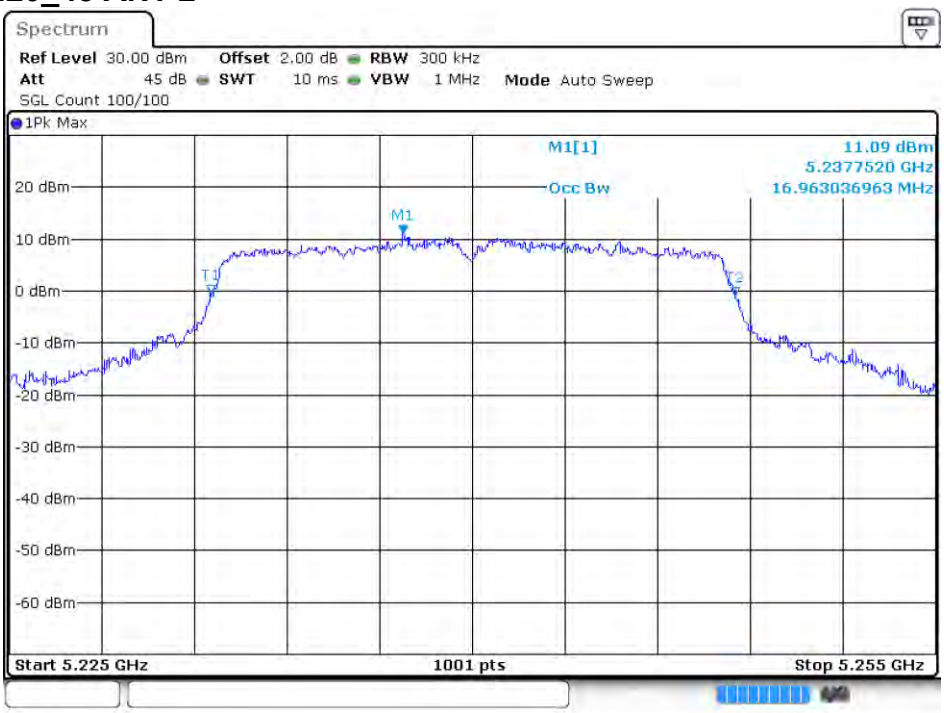

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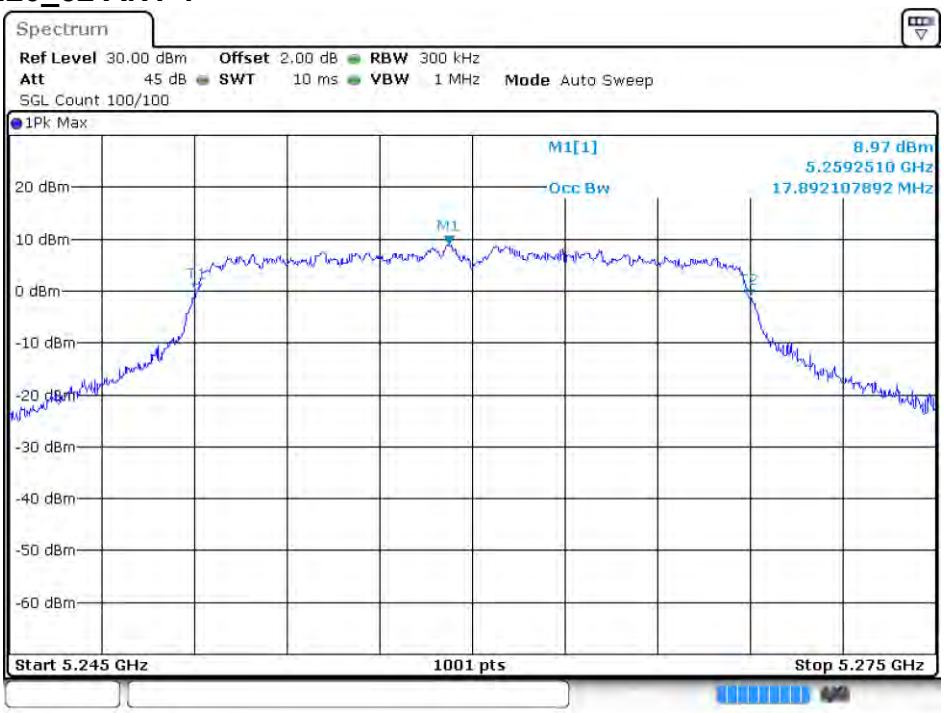

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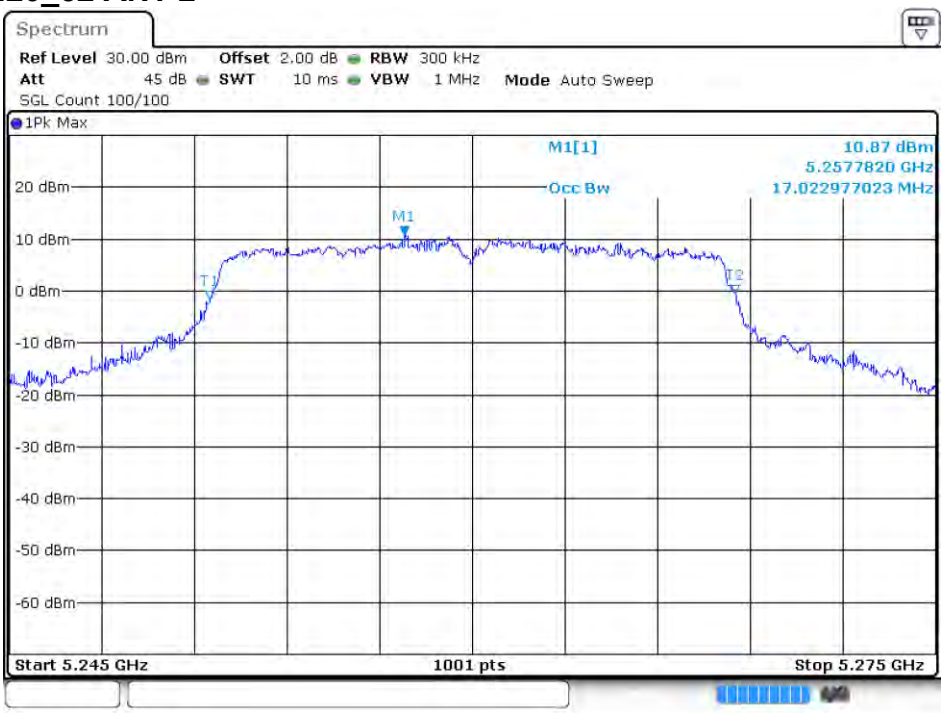
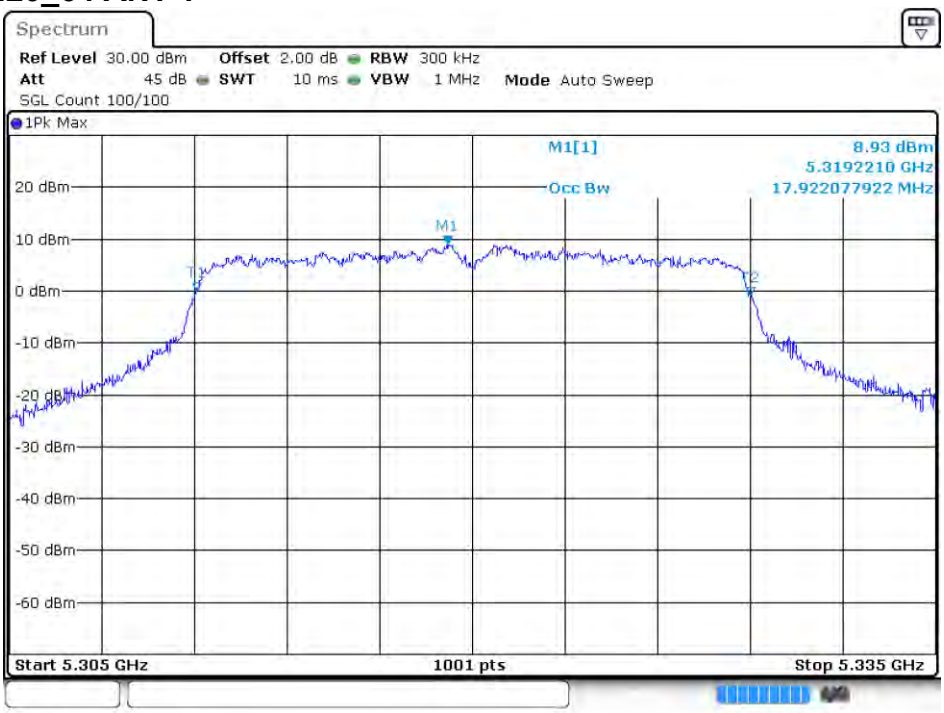


Date: 1.JAN.2020 03:36:34

4.7.2.39 11N20_64 ANT 1



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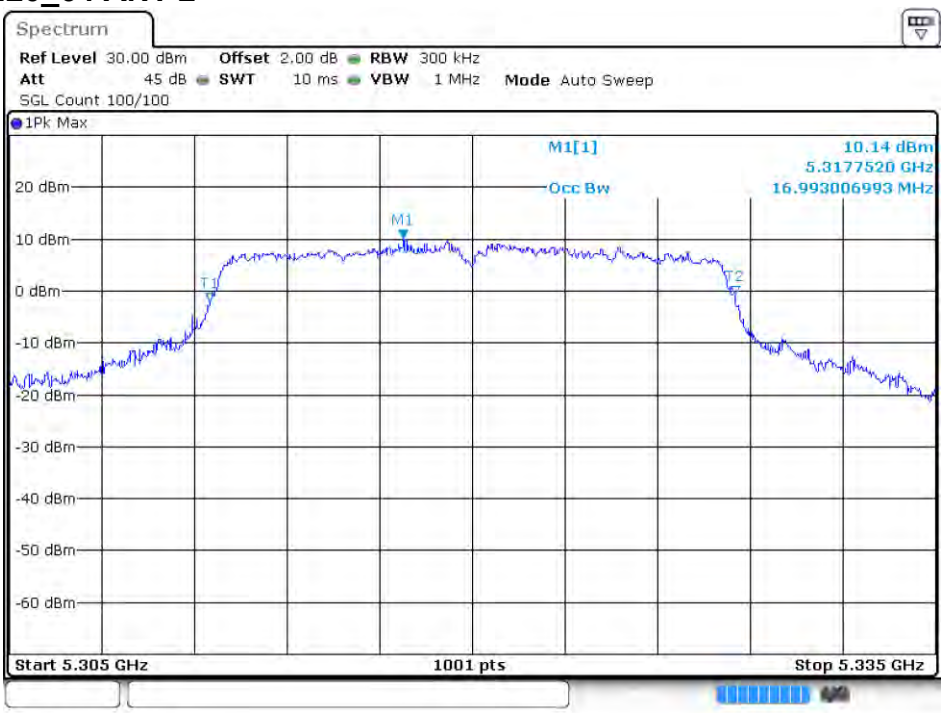
4.7.2.40 11N20_64 ANT 2



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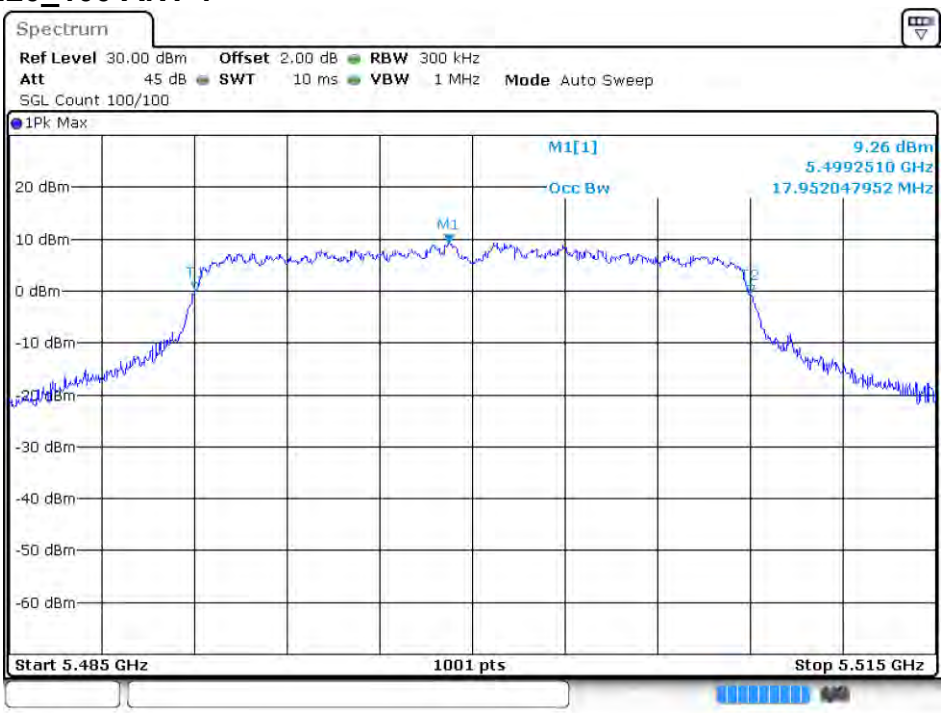
4.7.2.41 11N20_100 ANT 1



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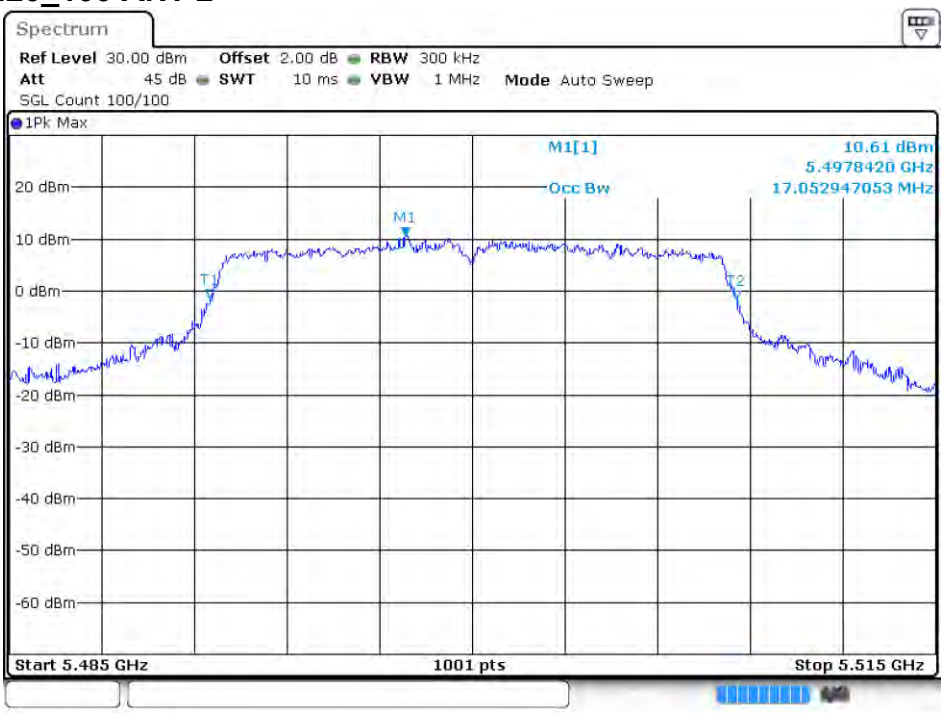
4.7.2.42 11N20_100 ANT 2



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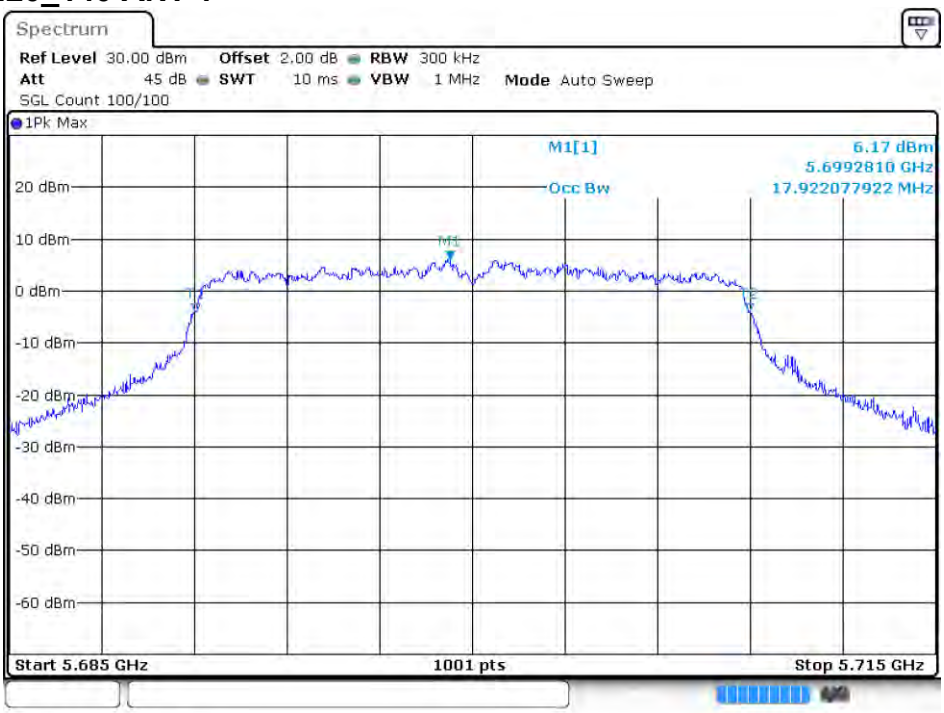
4.7.2.43 11N20_140 ANT 1



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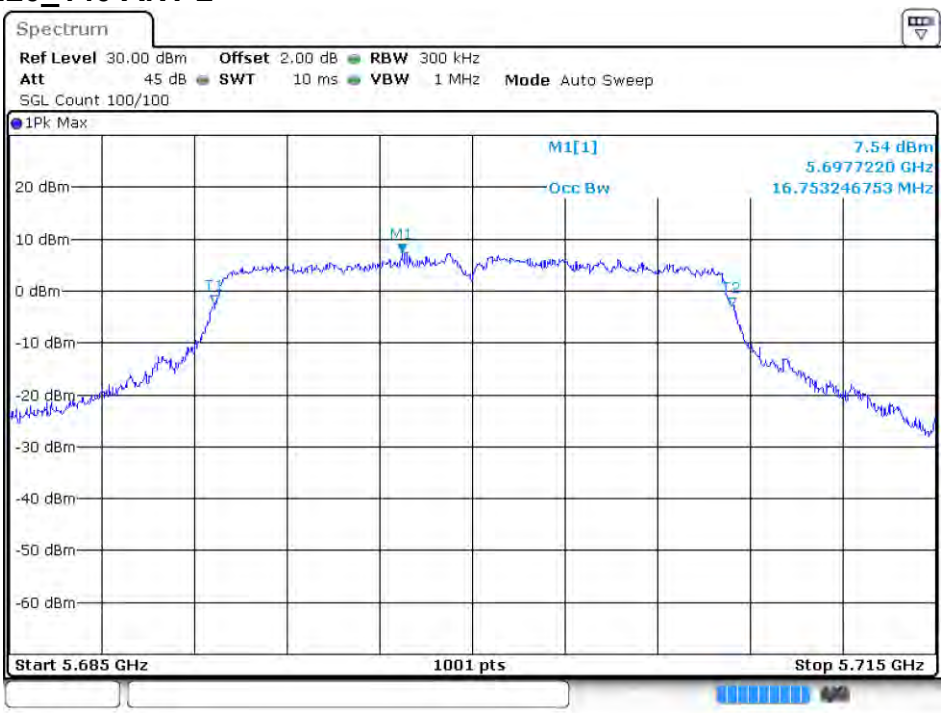
4.7.2.44 11N20_140 ANT 2



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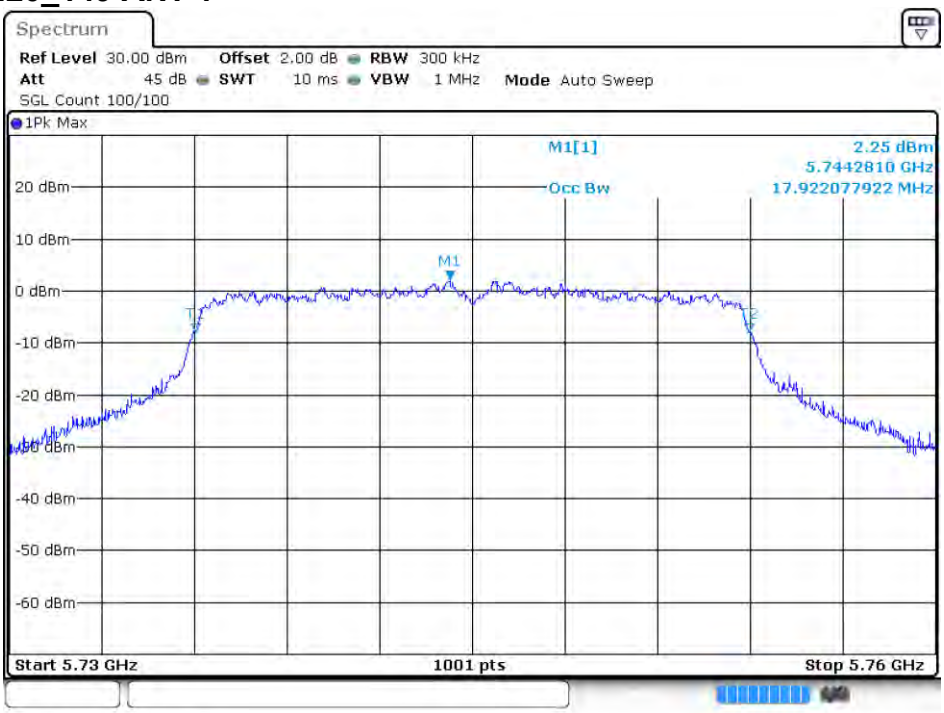

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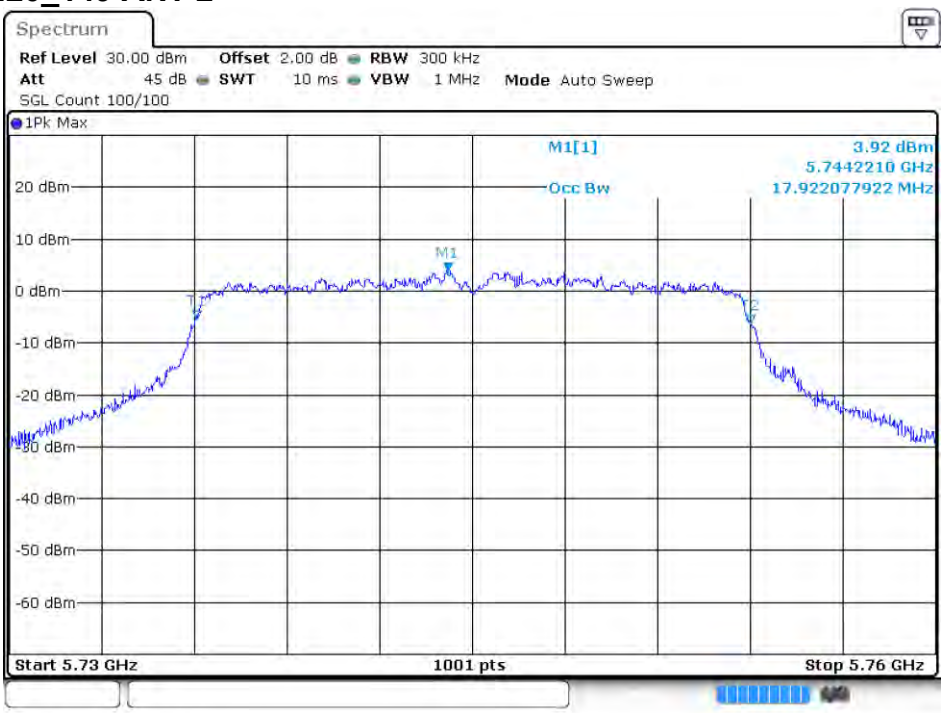
4.7.2.46 11N20_149 ANT 2



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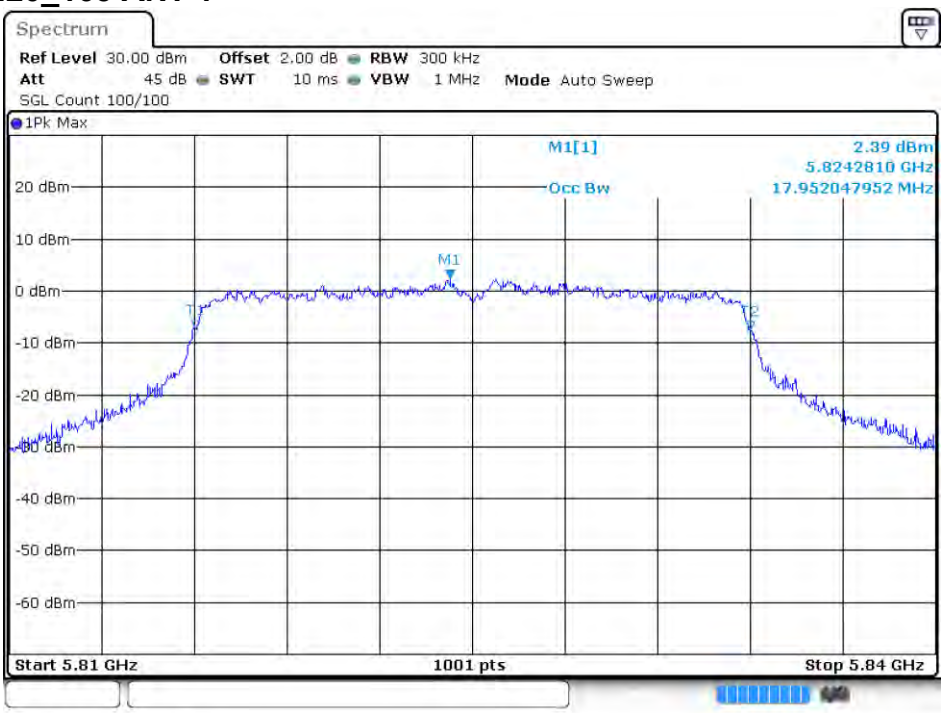
4.7.2.47 11N20_165 ANT 1



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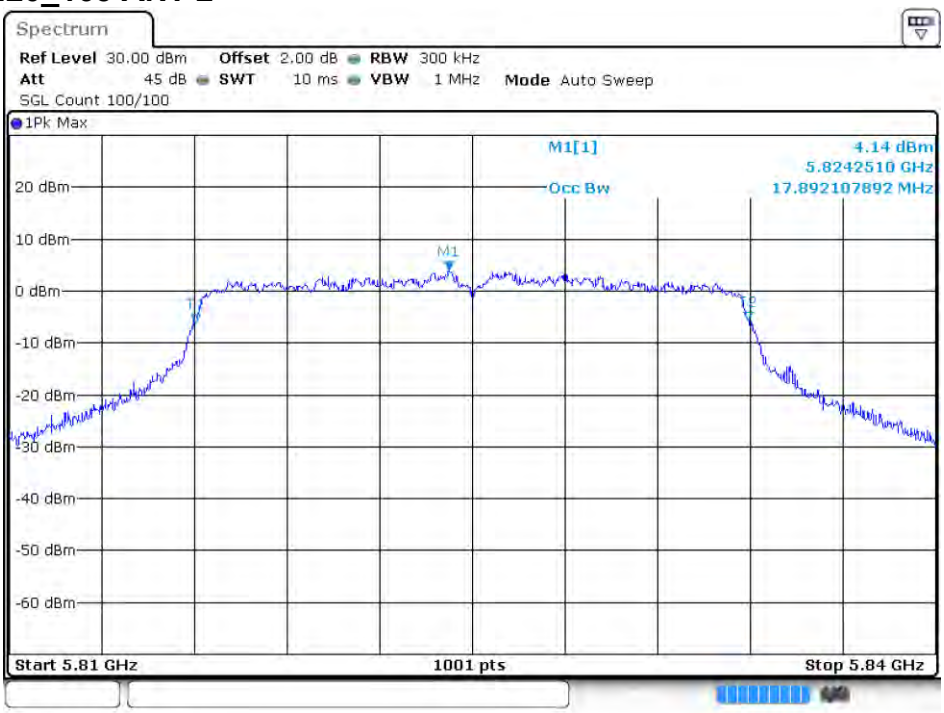
4.7.2.48 11N20_165 ANT 2



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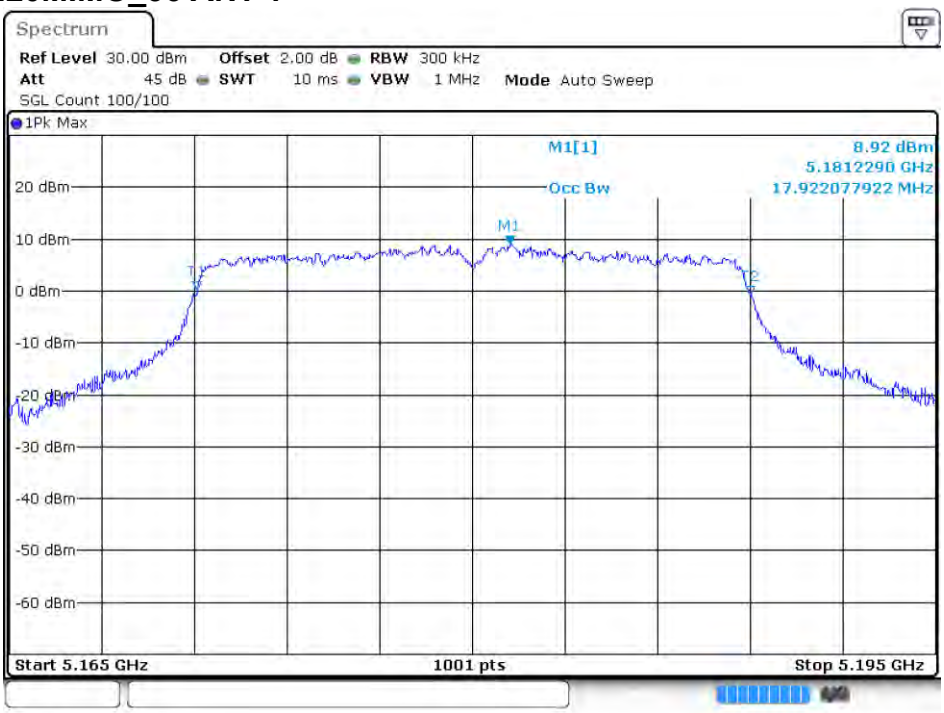

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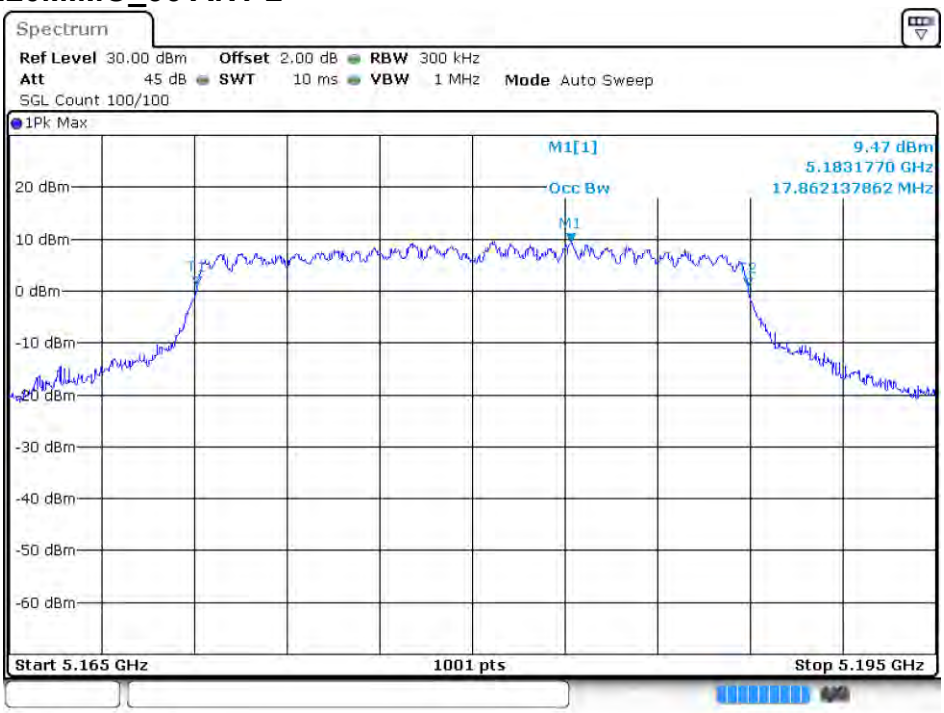
4.7.2.50 11N20MIMO_36 ANT 2



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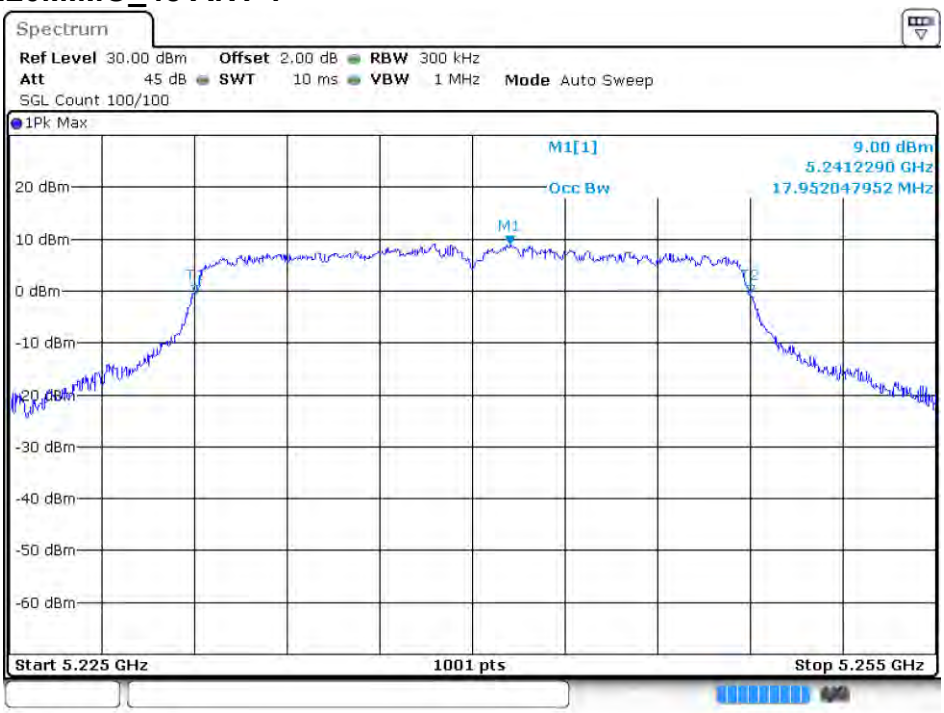
4.7.2.51 11N20MIMO_48 ANT 1



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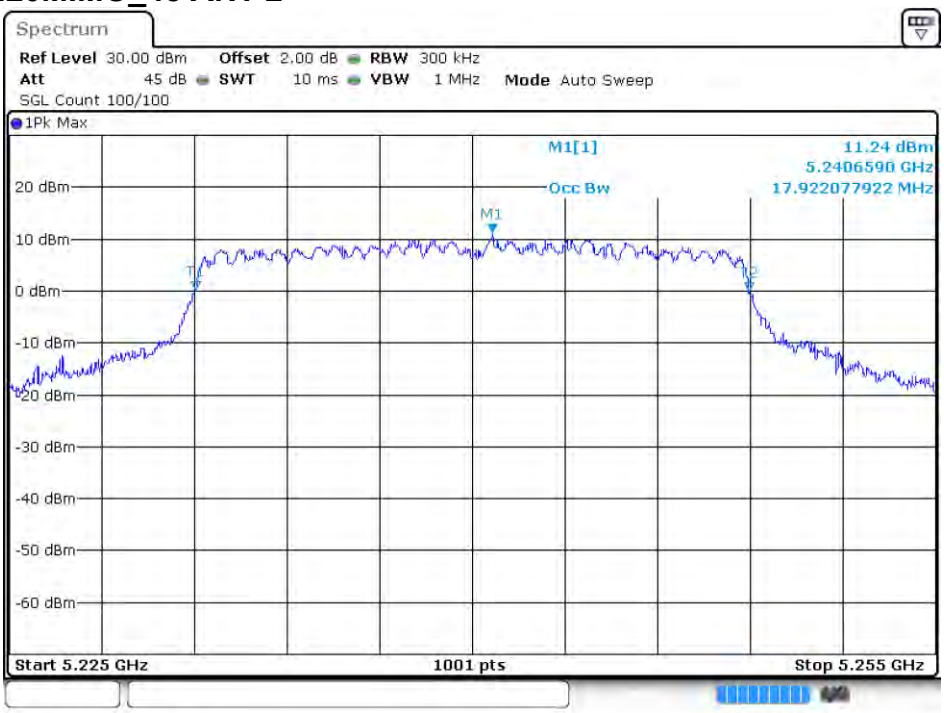

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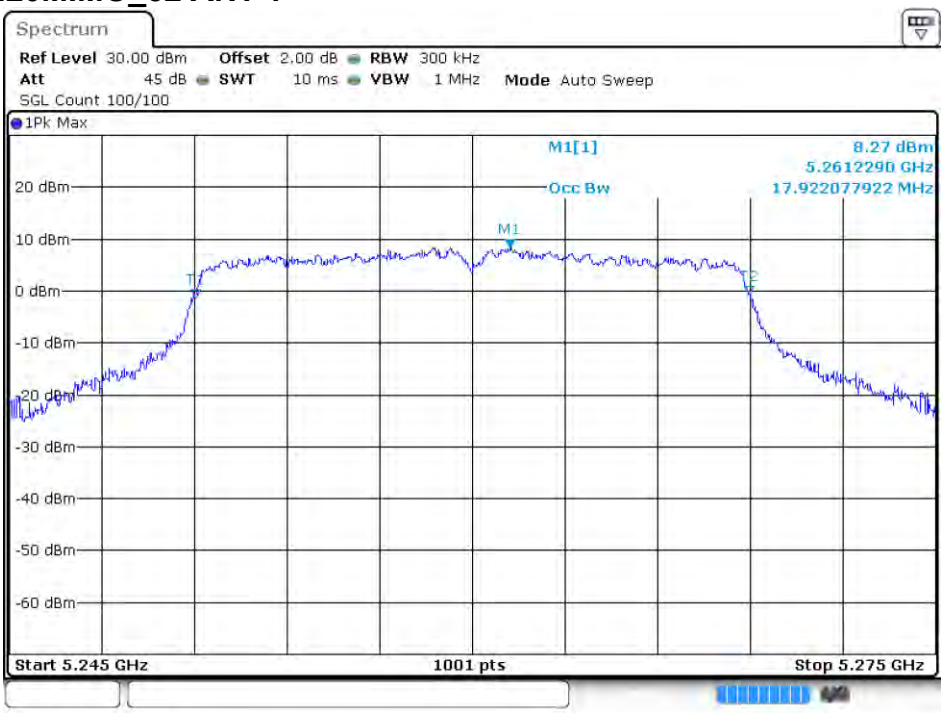

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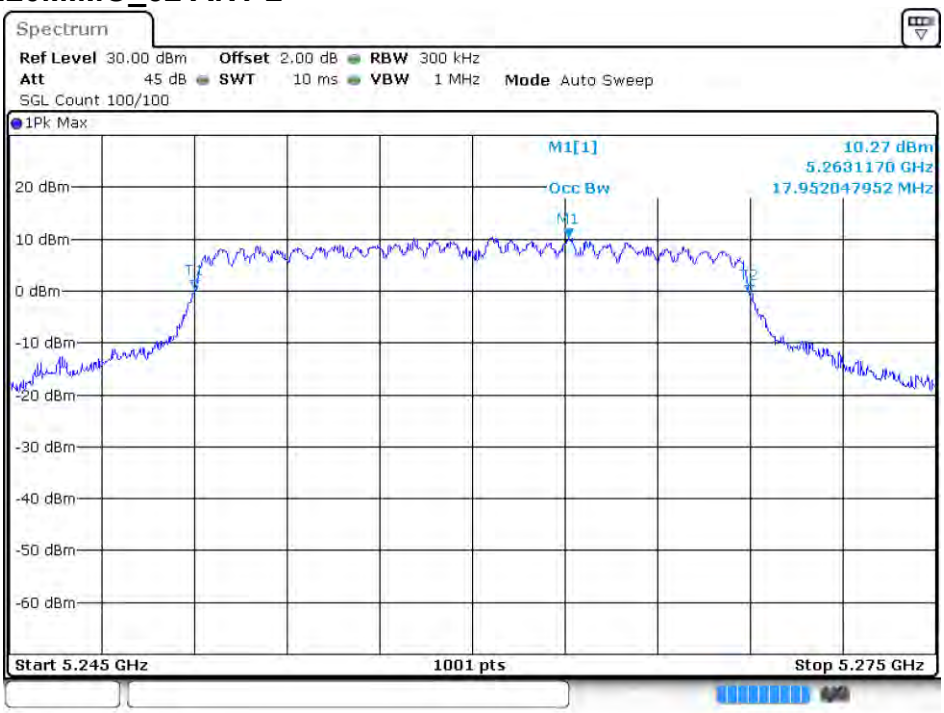

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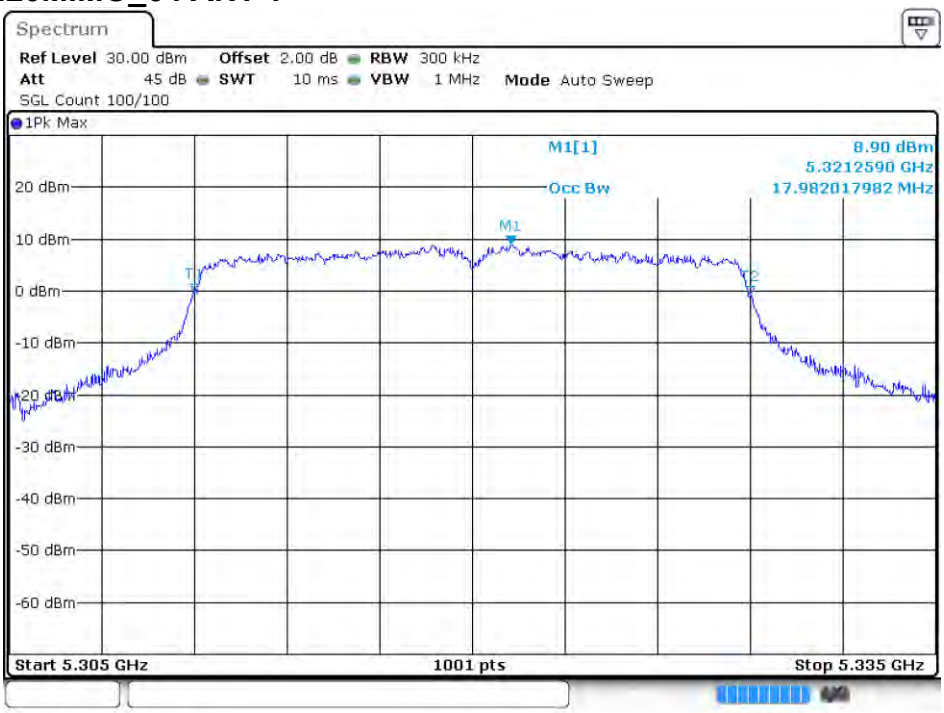

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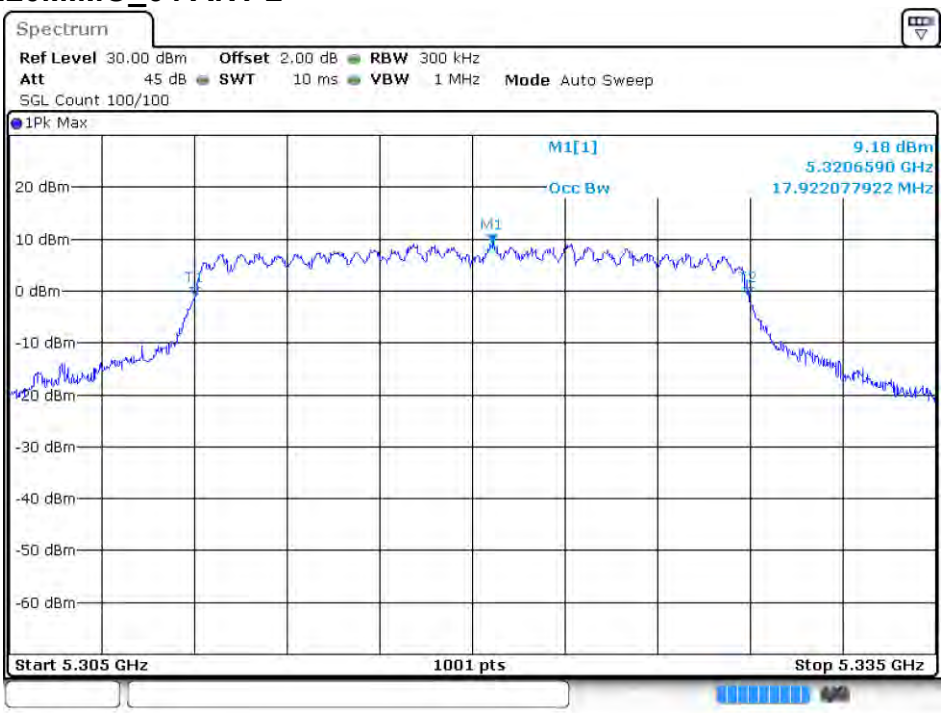

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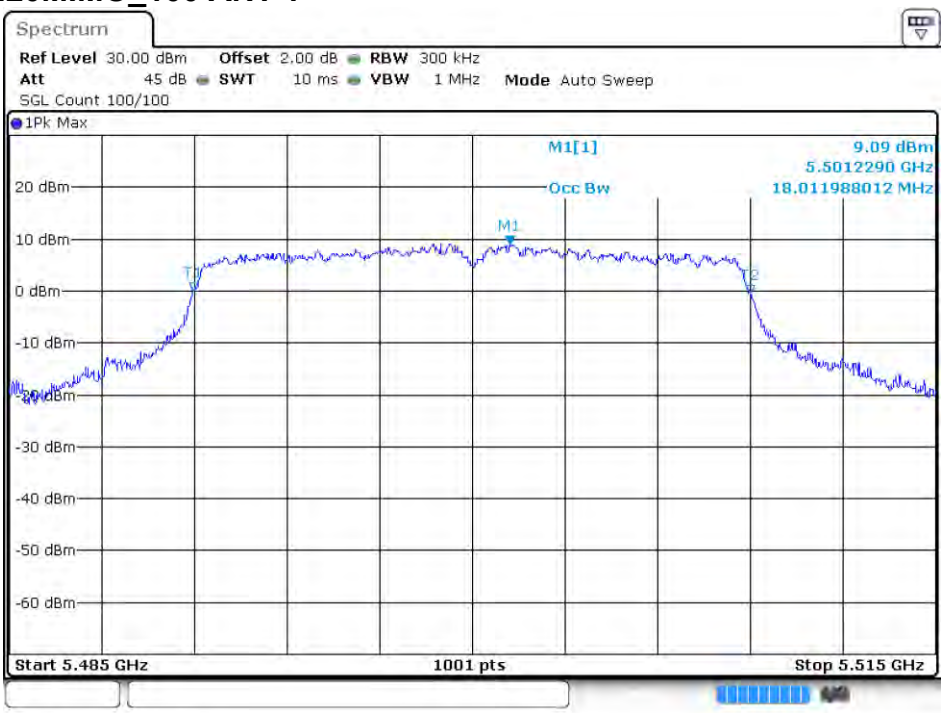

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