3.5.1.64 11AC20_40 ANT 1

3.5.1.65 11AC20_48 ANT 1

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3.5.1.66 11AC20_52 ANT 1

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3.5.1.67 11AC20_60 ANT 1

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3.5.1.68 11AC20_64 ANT 1

3.5.1.69 11AC20_100 ANT 1

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3.5.1.70 11AC20_140 ANT 1

Date: 13.MAR.2020 10:28:39

3.5.1.71 11AC20MIMO_36 ANT 1

Date: 12.MAR.2020 13:02:30

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3.5.1.72 11AC20MIMO_36 ANT 2

Date: 13.MAR.2020 07:55:51

3.5.1.73 11AC20MIMO_40 ANT

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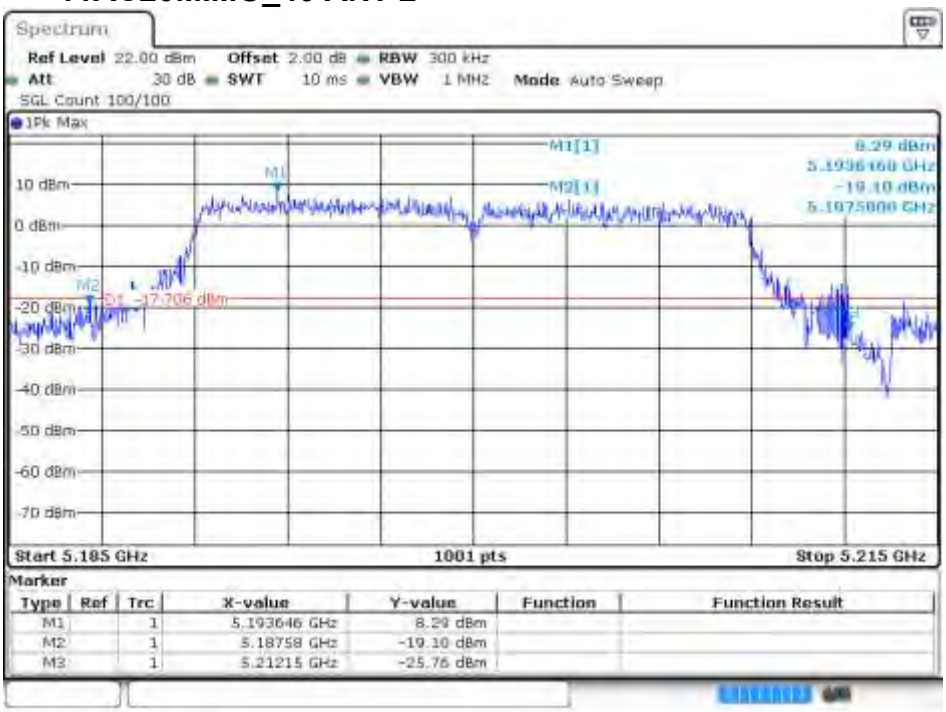
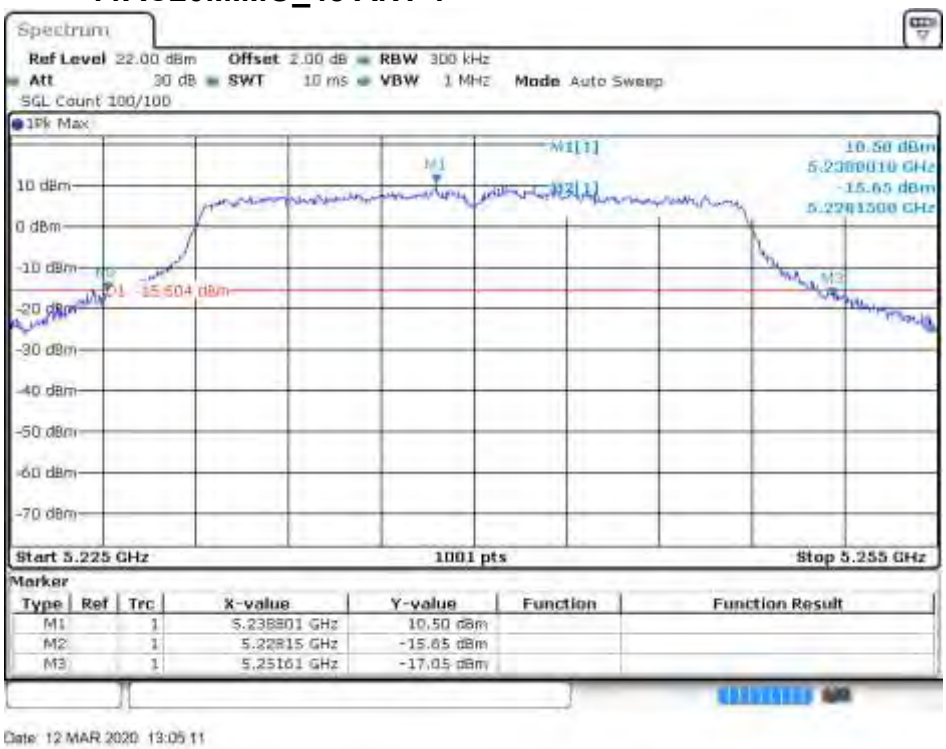
3.5.1.74 11AC20MIMO_40 ANT 2



3.5.1.75 11AC20MIMO_48 ANT 1



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3.5.1.76 11AC20MIMO_48 ANT 2

3.5.1.77 11AC20MIMO_52 ANT 1

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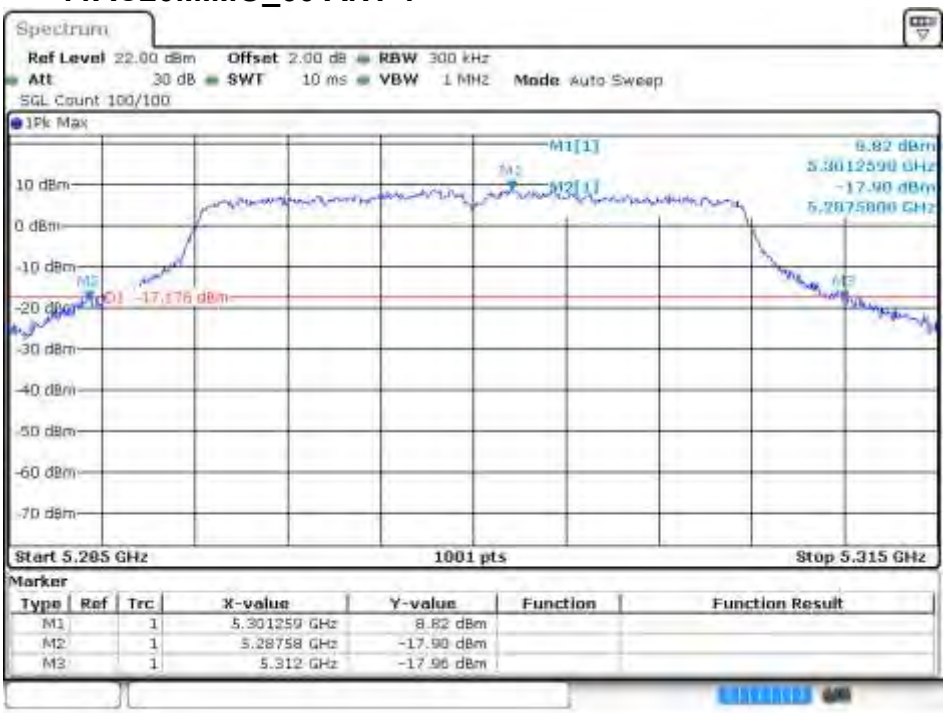
3.5.1.78 11AC20MIMO_52 ANT 2

3.5.1.79 11AC20MIMO_60 ANT 1



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3.5.1.80 11AC20MIMO_60 ANT 2

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3.5.1.81 11AC20MIMO_64 ANT 1

Date: 23.MAR.2020 10:00:22

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3.5.1.82 11AC20MIMO_64 ANT 2

3.5.1.83 11AC20MIMO_100 ANT 1

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3.5.1.85 11AC20MIMO_140 ANT 1

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3.5.1.86 11AC20MIMO_140 ANT 2

3.5.1.87 11AC40_38 ANT 1

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3.5.1.88 11AC40_46 ANT 1

Date: 13.MAR.2020 10:55:25

3.5.1.89 11AC40_54 ANT 1

Date: 13.MAR.2020 10:57:09

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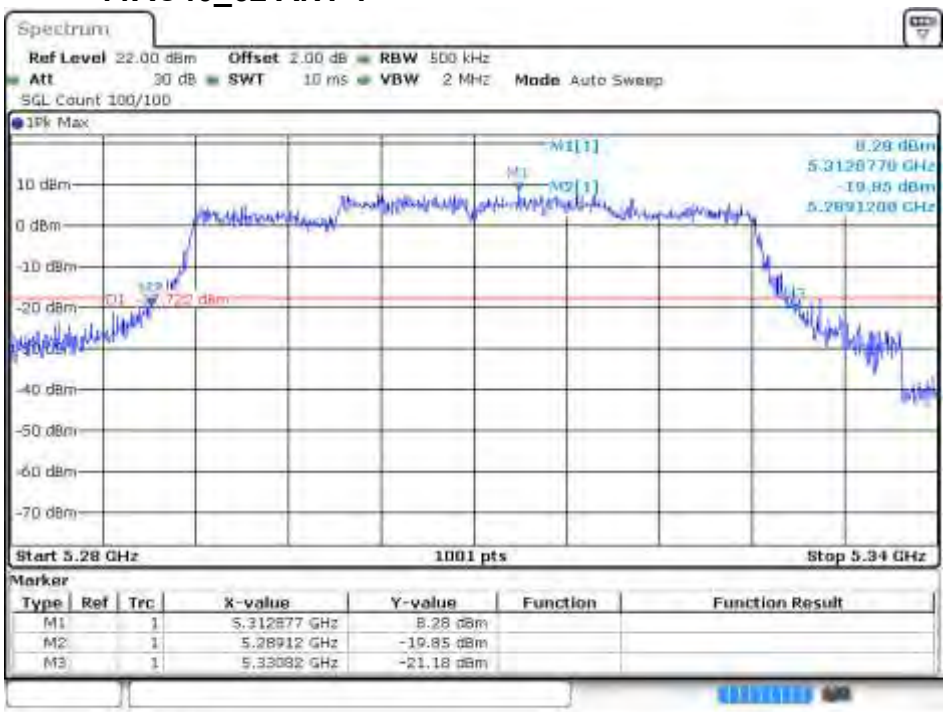

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3.5.1.91 11AC40_102 ANT 1

Date: 13.MAR.2020 11:01:04

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3.5.1.92 11AC40_134 ANT 1

Date: 13.MAR.2020 11:03:57

3.5.1.93 11AC40MIMO_38 ANT 1

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3.5.1.94 11AC40MIMO_38 ANT 2

Date: 13.MAR.2020 08:11:43

3.5.1.95 11AC40MIMO_46 ANT 1

Date: 12.MAR.2020 13:21:49

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3.5.1.96 11AC40MIMO_46 ANT 2

Date: 13.MAR.2020 08:13:26

3.5.1.97 11AC40MIMO_54 ANT 1

Date: 12.MAR.2020 13:23:54

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3.5.1.98 11AC40MIMO_54 ANT 2

Date: 13.MAR.2020 08:15:01

3.5.1.99 11AC40MIMO_62 ANT 1

Date: 12.MAR.2020 19:25:15

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3.5.1.100 11AC40MIMO_62 ANT 2

Date: 13.MAR.2020 08:16:13

3.5.1.101 11AC40MIMO_102 ANT 1

Date: 12.MAR.2020 13:26:52

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3.5.1.102 11AC40MIMO_102 ANT 2

Date: 13.MAR.2020 08:17:33

3.5.1.103 11AC40MIMO_134 ANT 1

Date: 12.MAR.2020 13:28:08

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3.5.1.104 11AC40MIMO_134 ANT 2

Date: 13.MAR.2020 08:18:40

3.5.1.105 11AC80_42 ANT 1

Date: 13.MAR.2020 11:09:00

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3.5.1.106 11AC80_58 ANT 1

Date: 13.MAR.2020 11:10:27

3.5.1.107 11AC80_106 ANT 1

Date: 13.MAR.2020 11:11:53

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3.5.1.108 11AC80MIMO_42 ANT 1

Date: 12 MAR 2020 13:34:49

3.5.1.109 11AC80MIMO_42 ANT 2

Date: 13 MAR 2020 08:24:32

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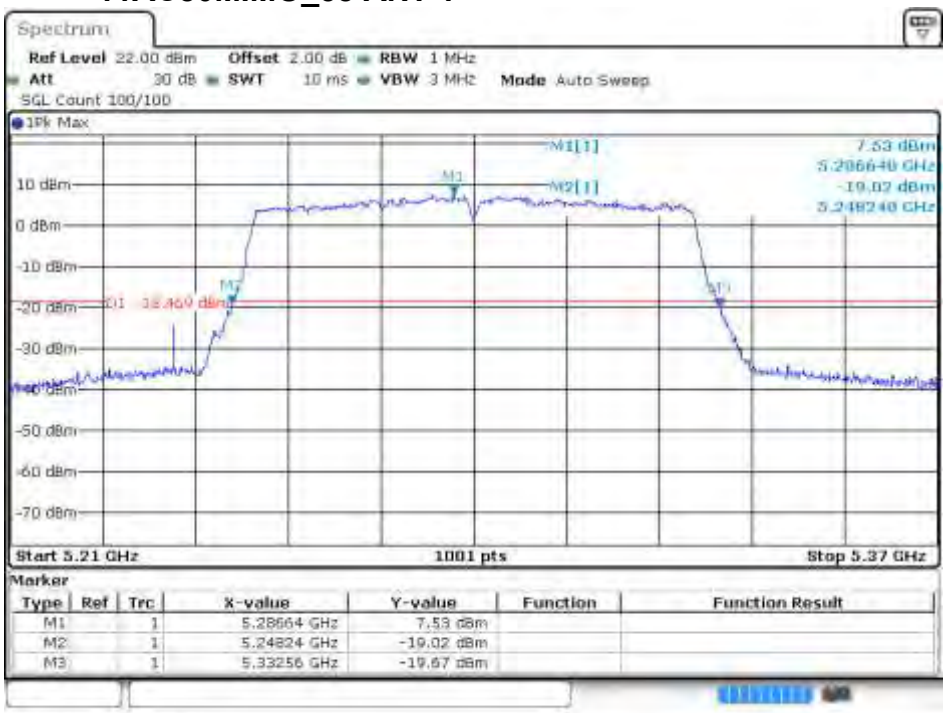
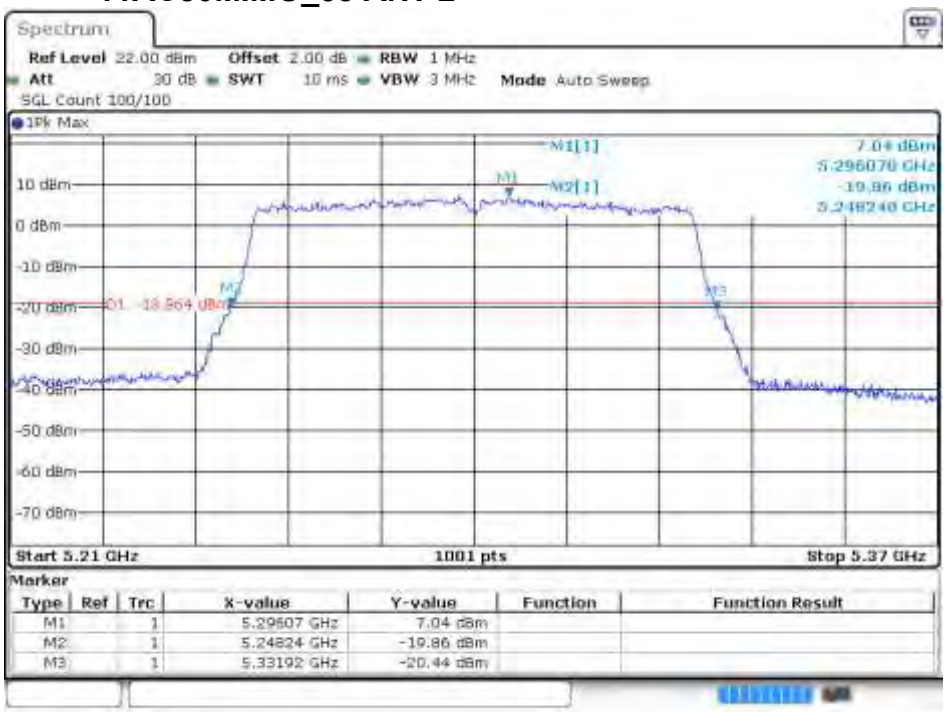
3.5.1.110 11AC80MIMO_58 ANT 1



Date: 12 MAR 2020 13:36:19

3.5.1.111 11AC80MIMO_58 ANT 2



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3.5.1.112 11AC80MIMO_106 ANT 1

Date: 12 MAR 2020 13:38:02

3.5.1.113 11AC80MIMO_106 ANT 2

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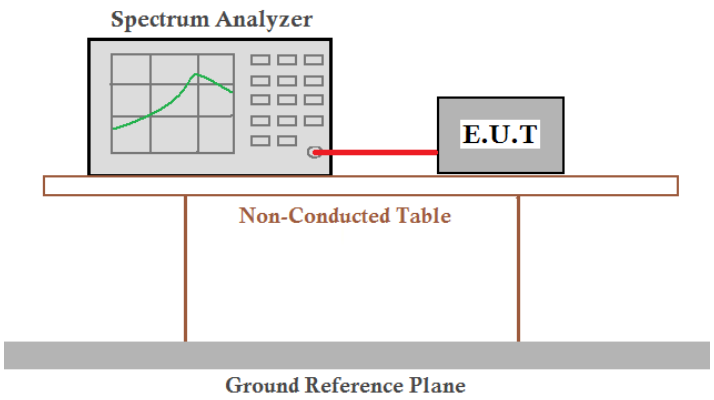
3.6 6dB Emission Bandwidth

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
	5725-5825MHz	At lease 500kHz
Test Results:	Pass	

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3.6.1 Test Plots For 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	6dB Emission Bandwidth [MHz]		Verdict
			ANT 1	ANT 2	
11A20	149	5745	16.11	---	PASS
	157	5785	15.36	---	PASS
	161	5805	15.57	---	PASS
11A20CDD	149	5745	15.81	15.15	PASS
	157	5785	15.87	15.93	PASS
	161	5805	15.39	15.96	PASS
11N20	149	5745	16.05	---	PASS
	157	5785	16.02	---	PASS
	161	5805	16.44	---	PASS
11N20MIMO	149	5745	15.48	16.38	PASS
	157	5785	15.21	16.59	PASS
	161	5805	15.15	16.35	PASS
11N40	151	5755	35.16	---	PASS
	159	5795	35.22	---	PASS
11N40MIMO	151	5755	35.52	35.28	PASS
	159	5795	35.28	35.22	PASS
11AC20	149	5745	16.02	---	PASS
	157	5785	16.59	---	PASS
	161	5805	15.99	---	PASS
11AC20MIMO	149	5745	15.69	16.38	PASS
	157	5785	15.21	16.38	PASS
	161	5805	15.42	16.38	PASS
11AC40	151	5755	35.22	---	PASS
	159	5795	36.18	---	PASS
11AC40MIMO	151	5755	35.28	35.22	PASS
	159	5795	35.22	35.22	PASS
11AC80	155	5775	75.52	---	PASS
11AC80MIMO	155	5775	75.52	75.52	PASS

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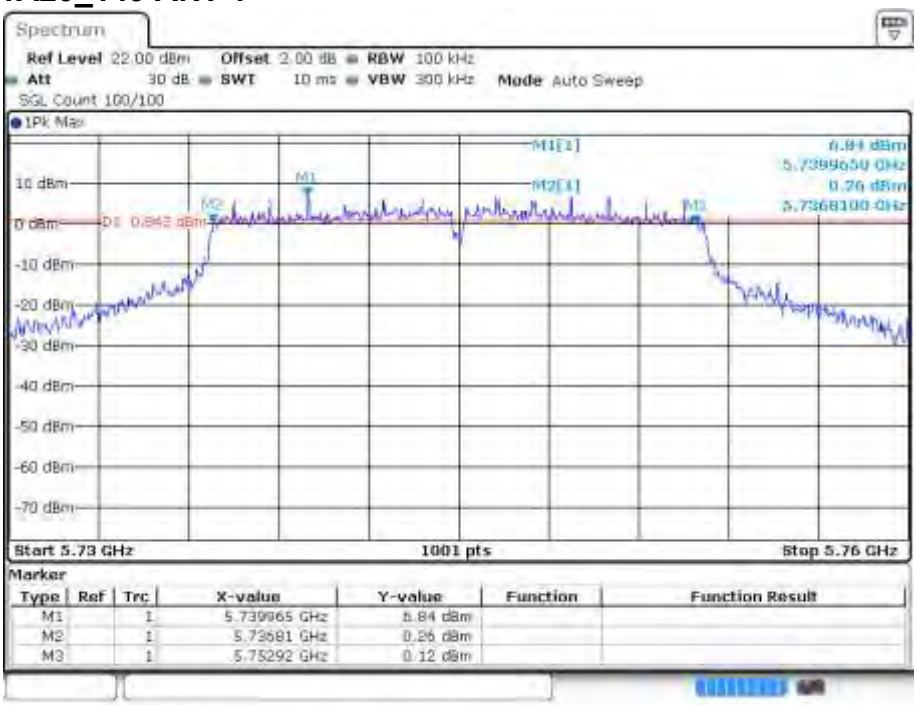
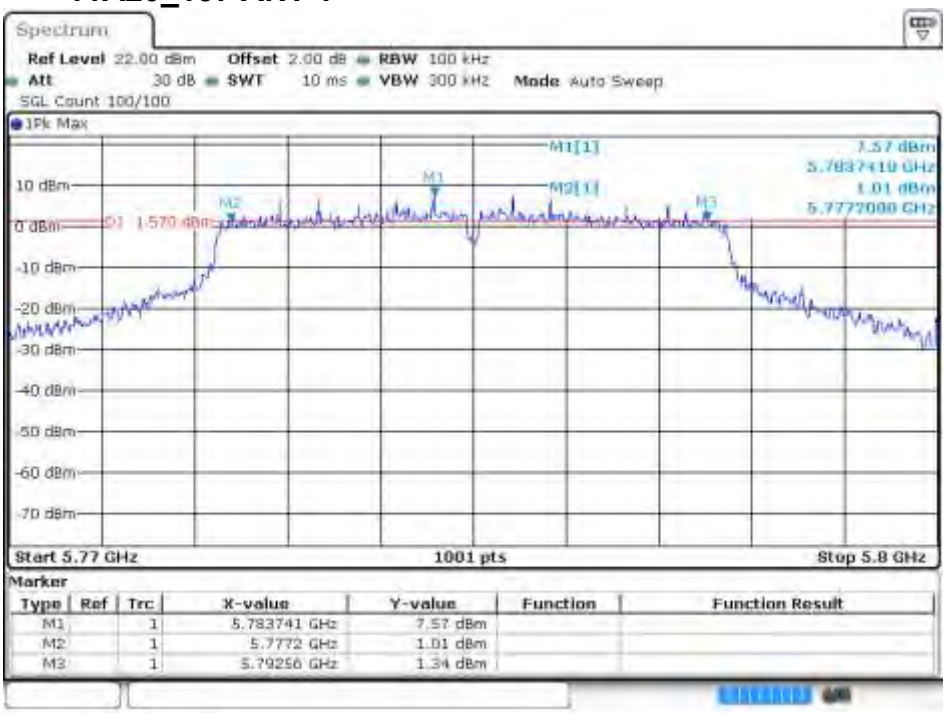
3.6.2 Test Plots For 6dB Emission Bandwidth

3.6.2.1 11A20_149 ANT 1



3.6.2.2 11A20_157 ANT 1



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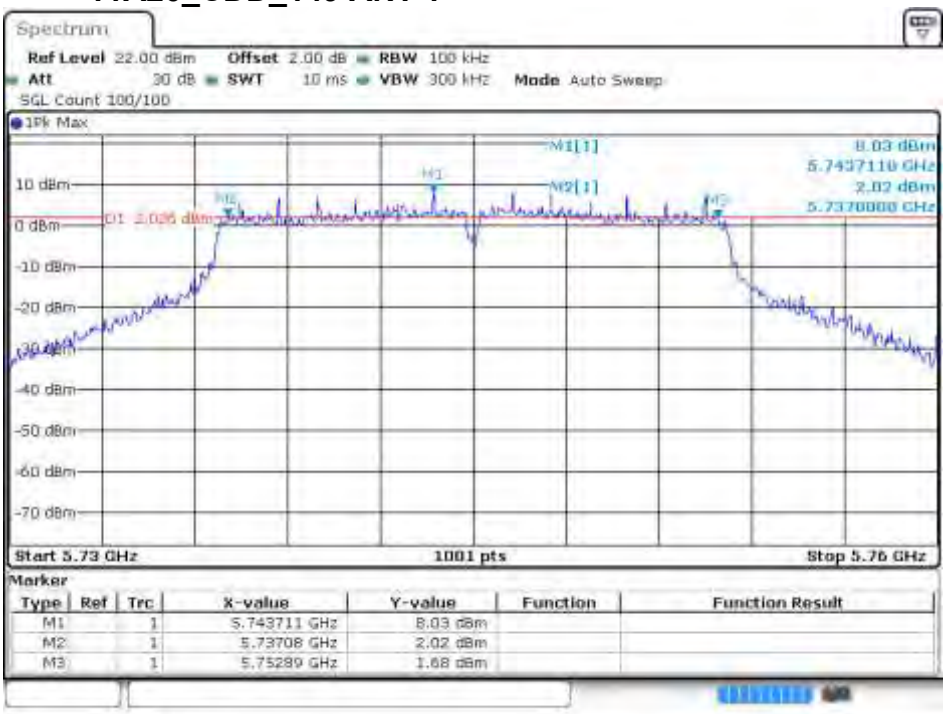
3.6.2.3 11A20_161 ANT 1

3.6.2.4 11A20_CDD_149 ANT 1



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3.6.2.5 11A20_CDD_149 ANT 2

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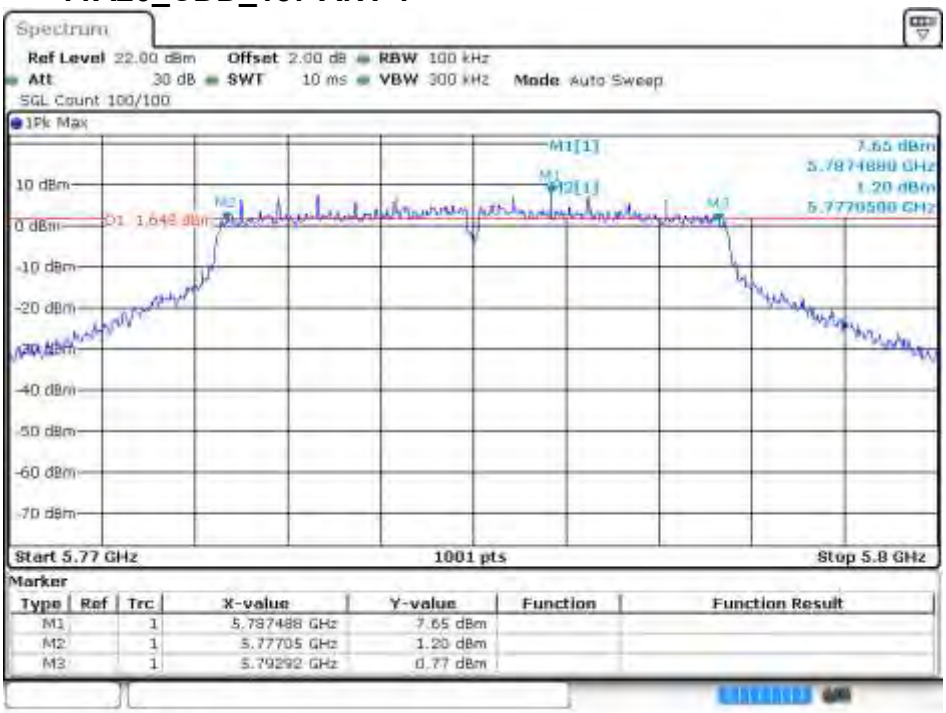
3.6.2.6 11A20_CDD_157 ANT 1



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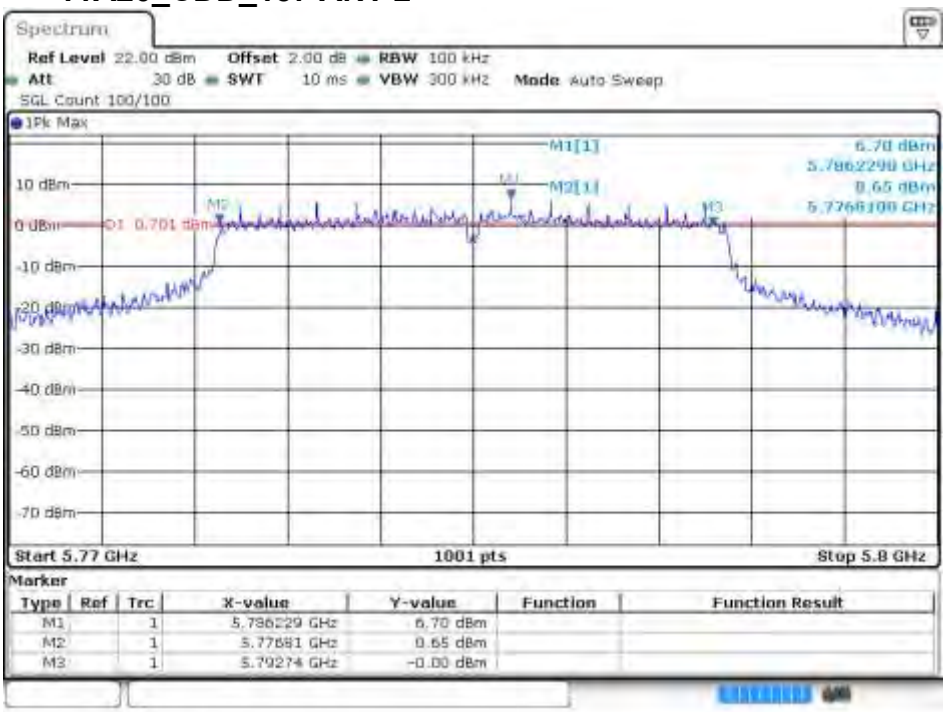
3.6.2.7 11A20_CDD_157 ANT 2



3.6.2.8 11A20_CDD_161 ANT 1

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3.6.2.9 11A20_CDD_161 ANT 2

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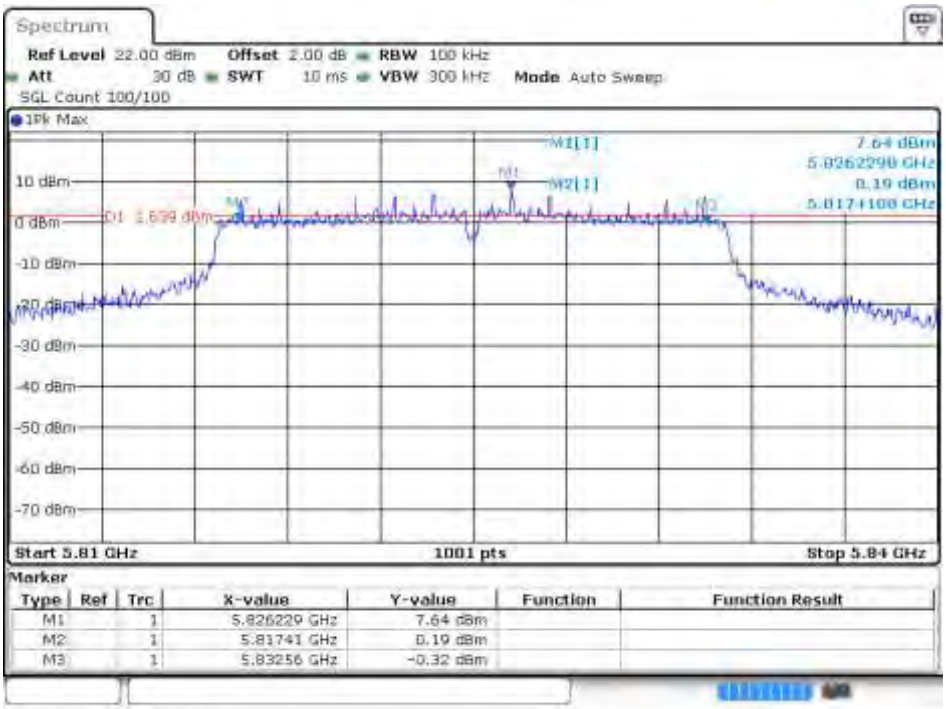

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3.6.2.10 11N20_149 ANT 1

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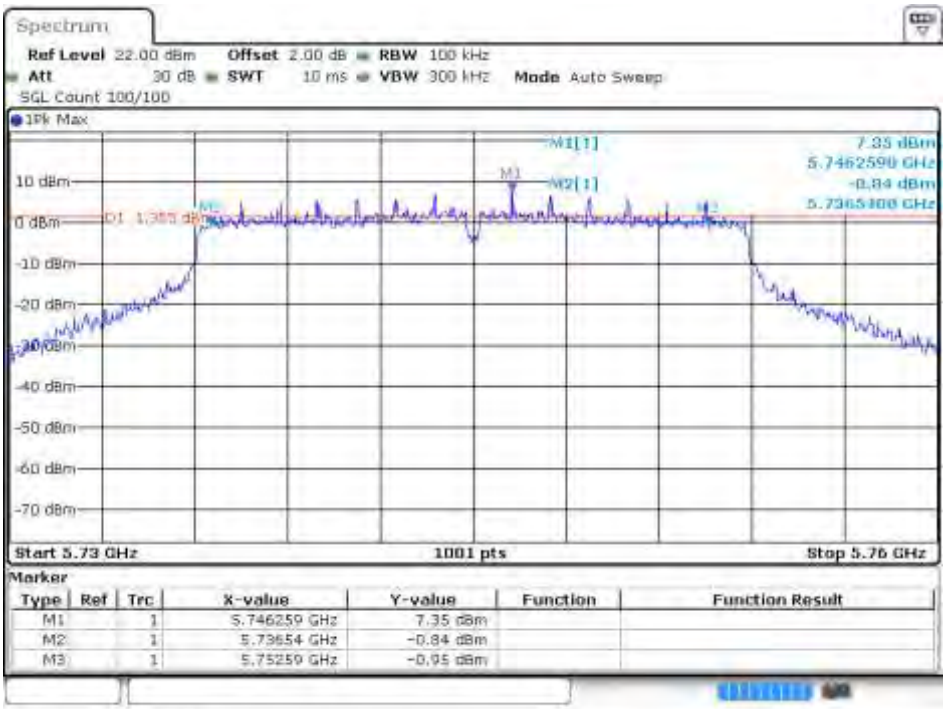

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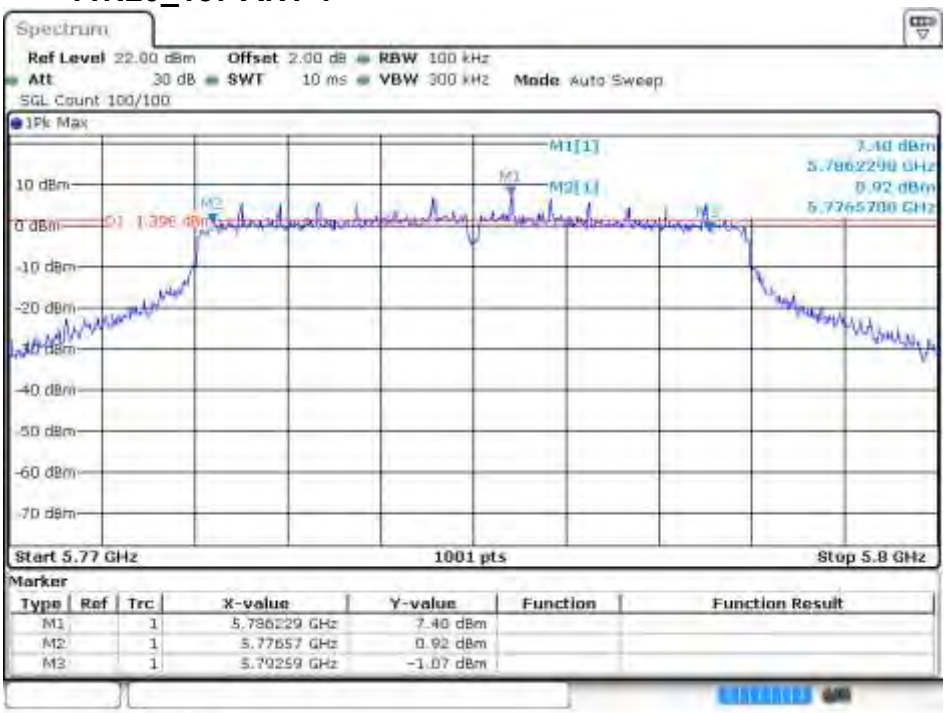

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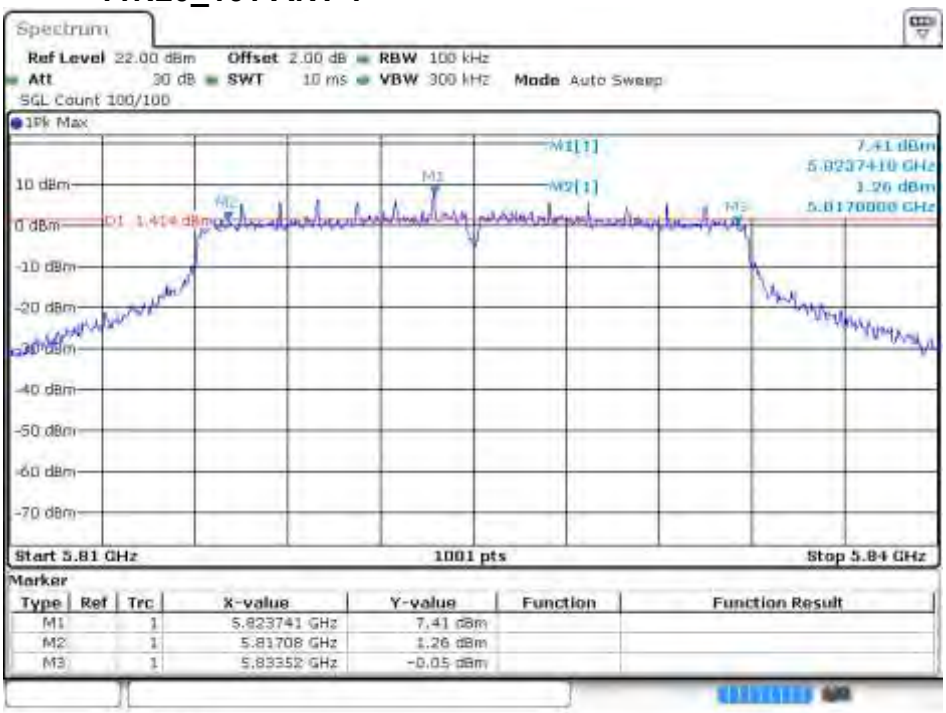
3.6.2.12 11N20_161 ANT 1



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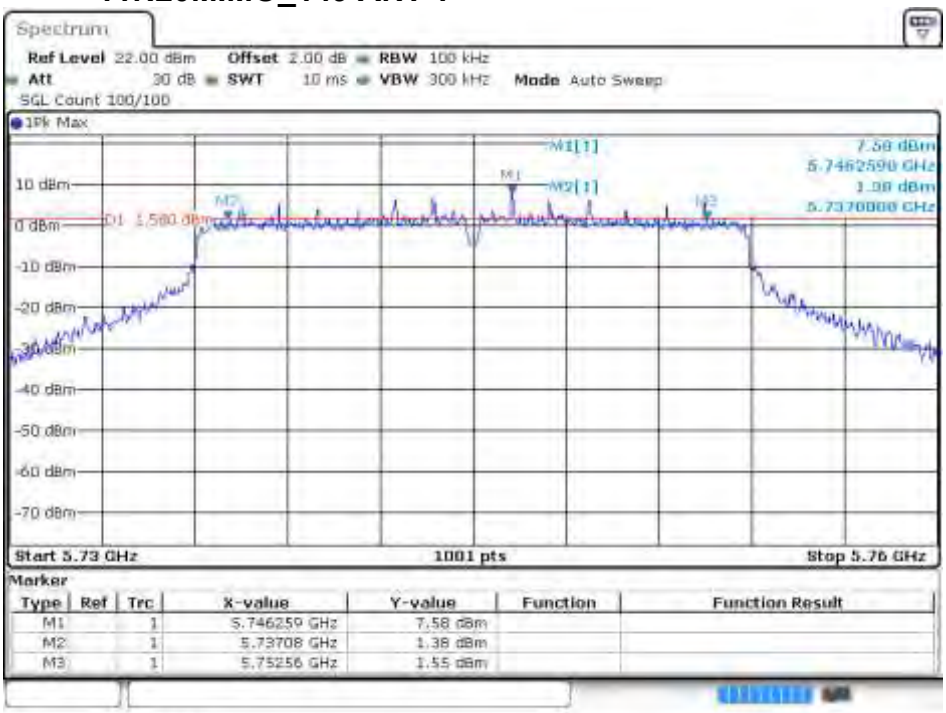
3.6.2.13 11N20MIMO_149 ANT 1



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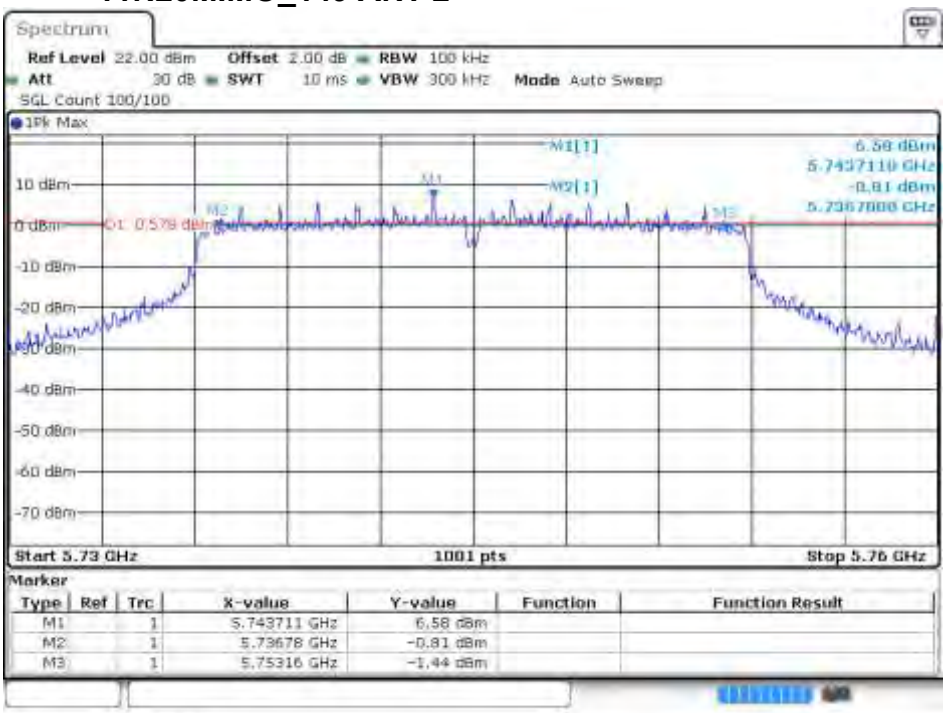
3.6.2.14 11N20MIMO_149 ANT 2



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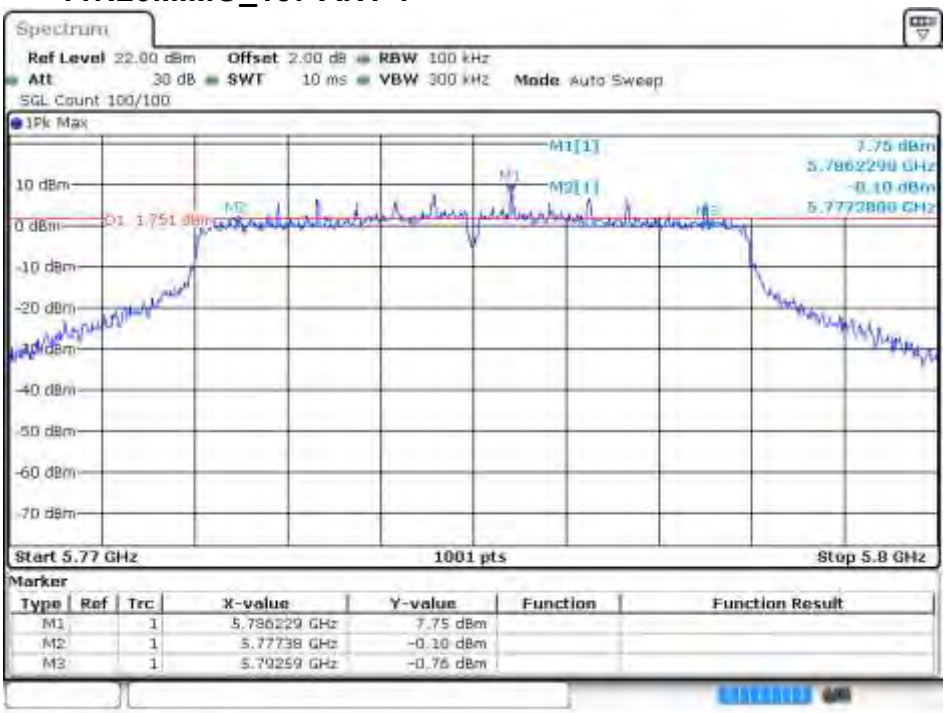

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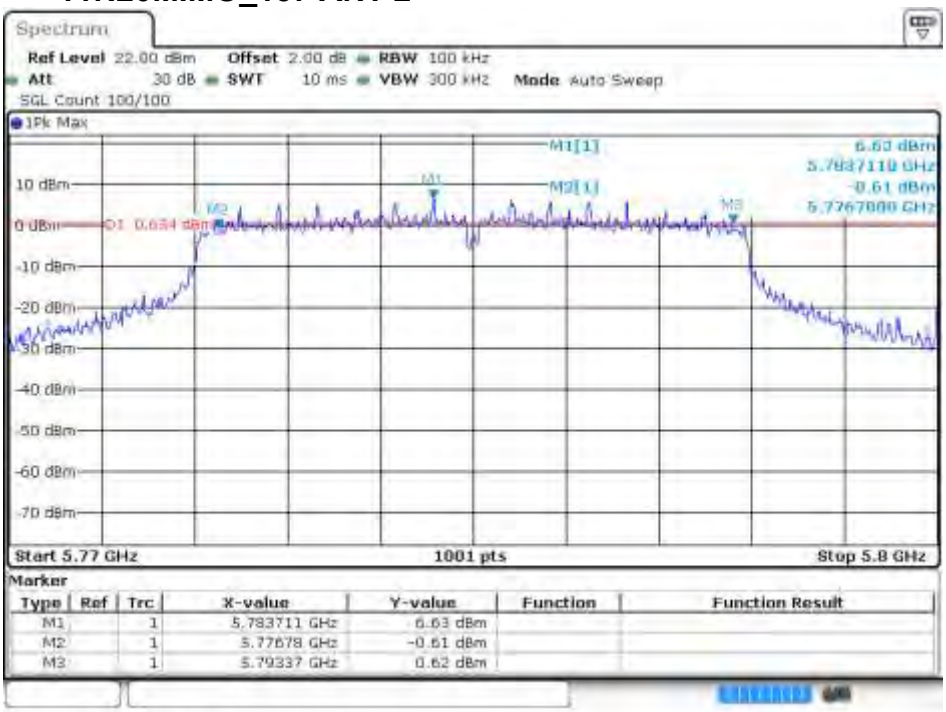

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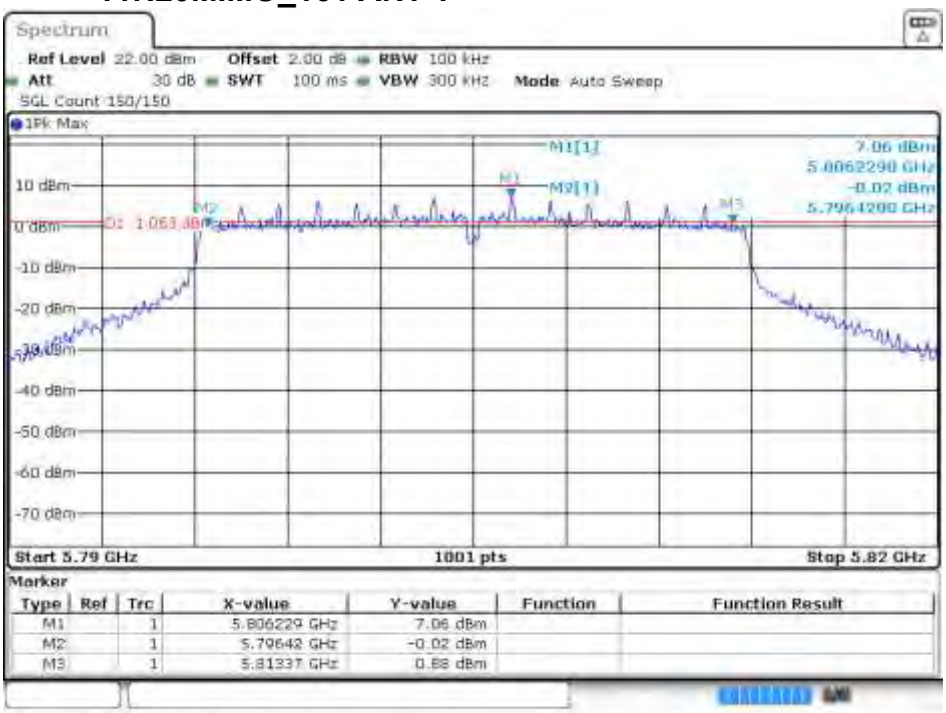

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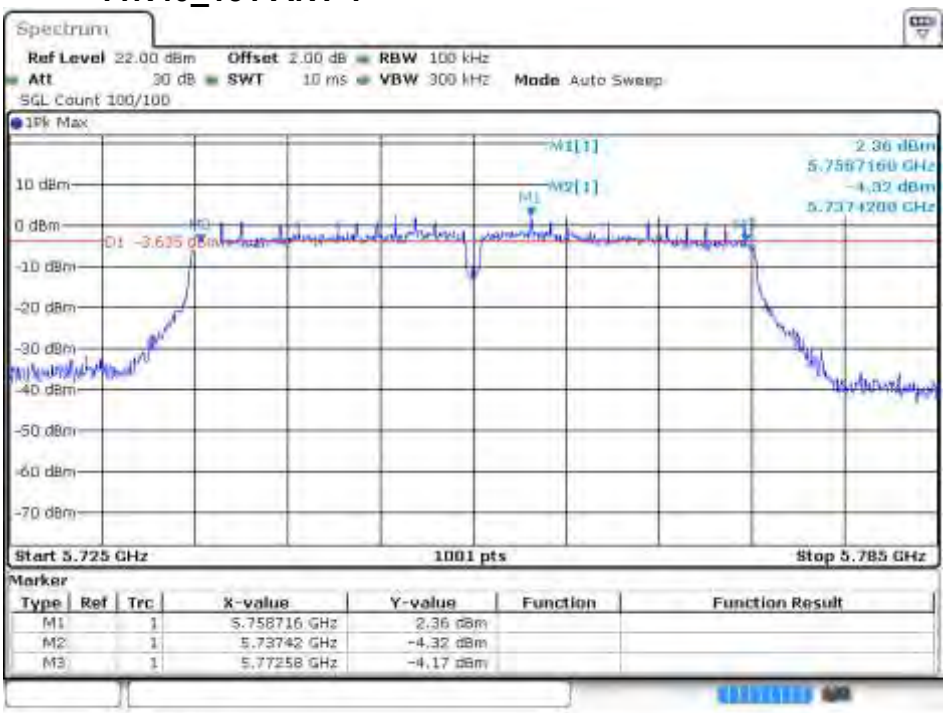

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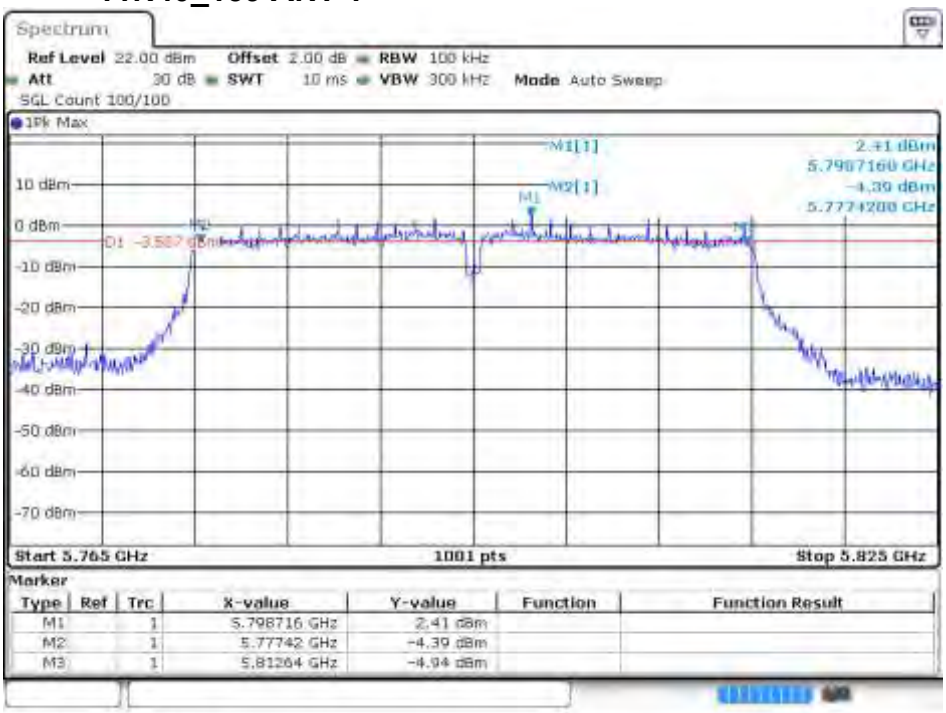

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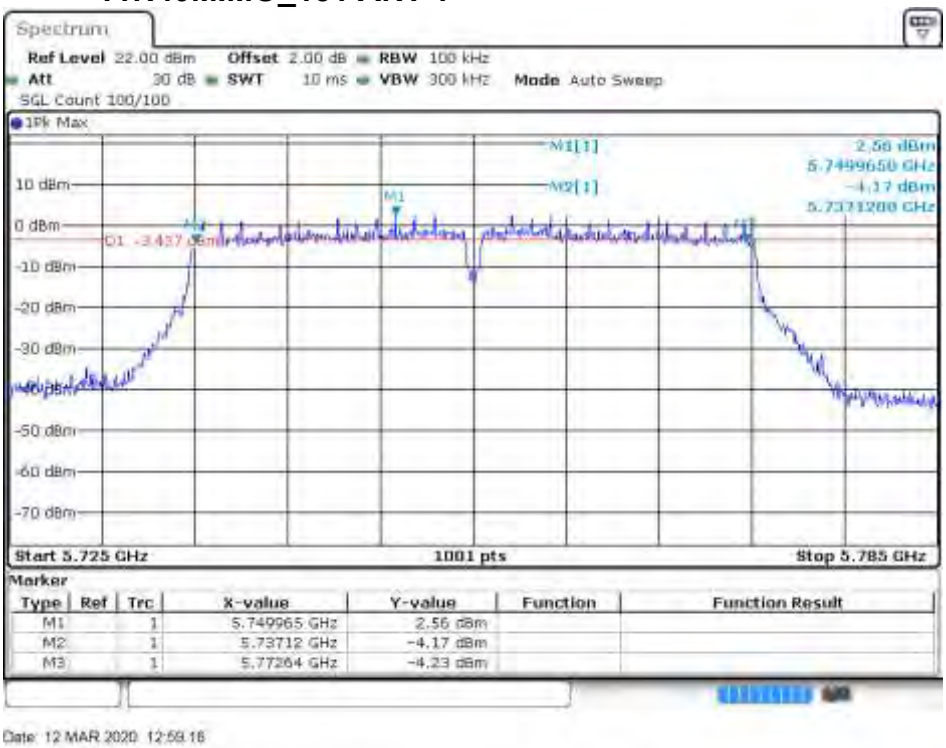

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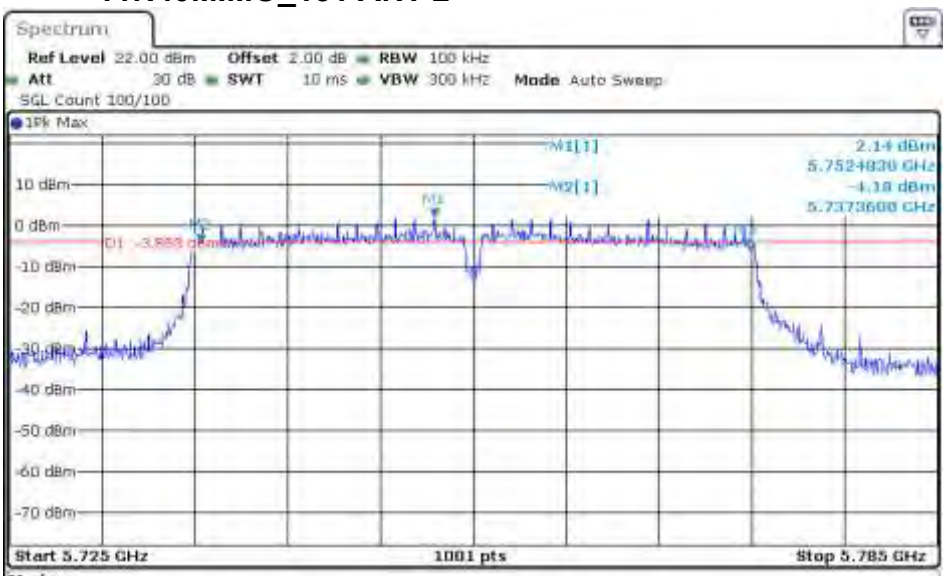

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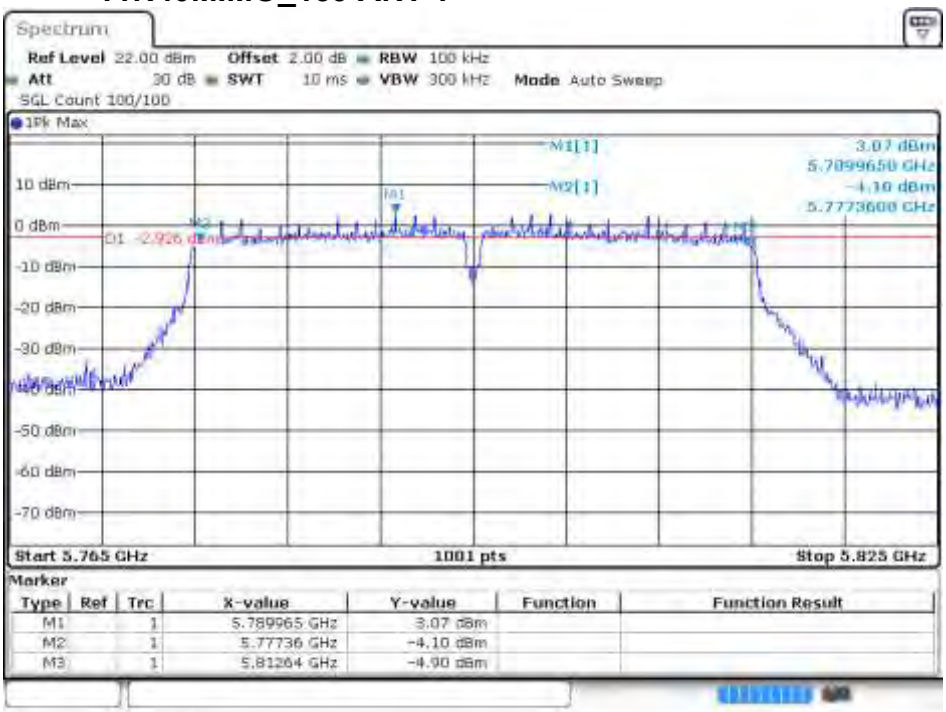
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.752483 GHz	2.14 dBm		
M2		1	5.73736 GHz	-4.18 dBm		
M3		1	5.77264 GHz	-5.40 dBm		

Date: 13.MAR.2020 07:50:53

3.6.2.23 11N40MIMO_159 ANT 1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.789965 GHz	3.07 dBm		
M2		1	5.77736 GHz	-4.10 dBm		
M3		1	5.81264 GHz	-4.90 dBm		

Date: 12.MAR.2020 13:00:33

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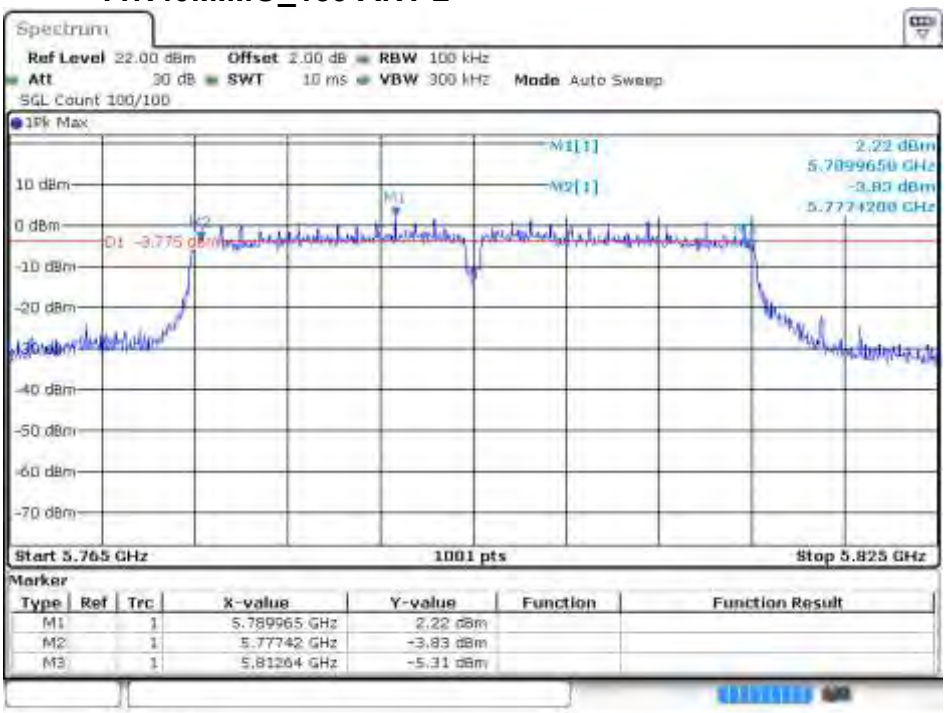
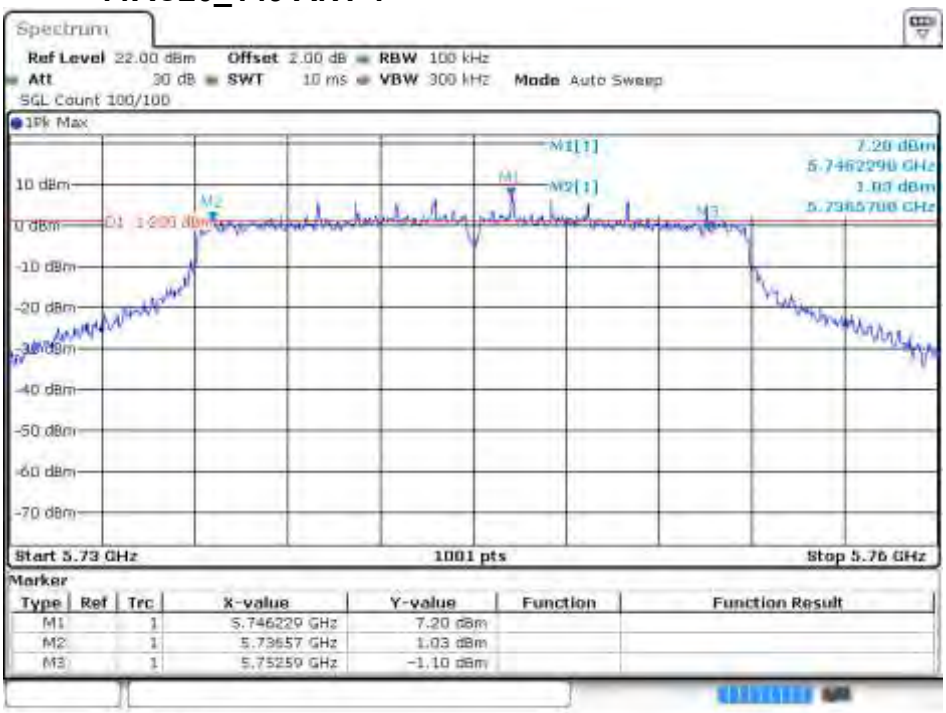
3.6.2.24 11N40MIMO_159 ANT 2



Date: 13.MAR.2020 07:52:38

3.6.2.25 11AC20_149 ANT 1



Date: 13.MAR.2020 10:30:16

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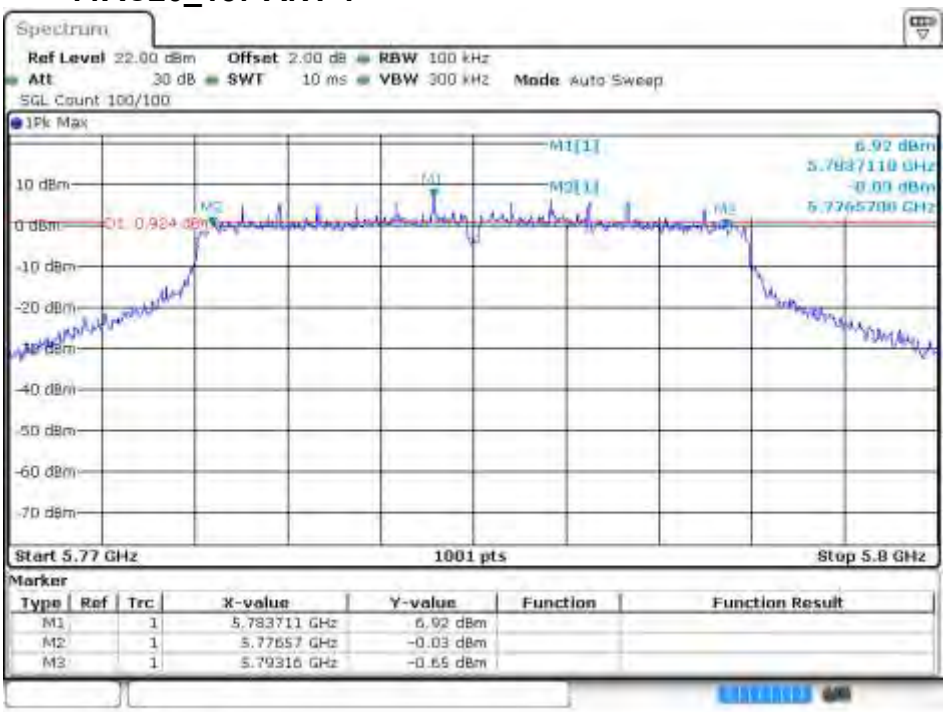
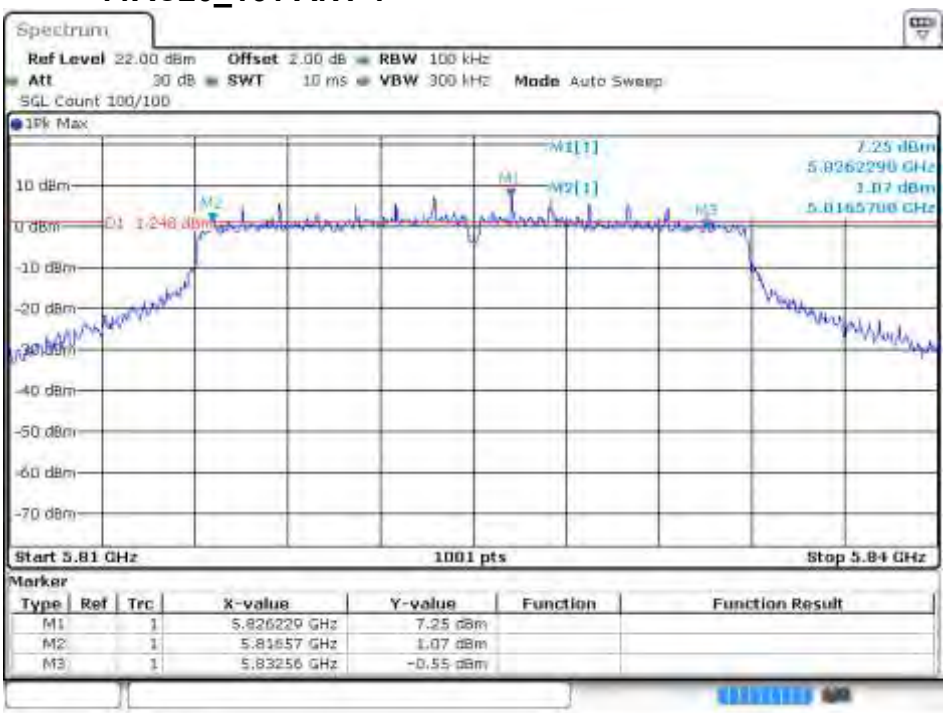
3.6.2.26 11AC20_157 ANT 1



3.6.2.27 11AC20_161 ANT 1



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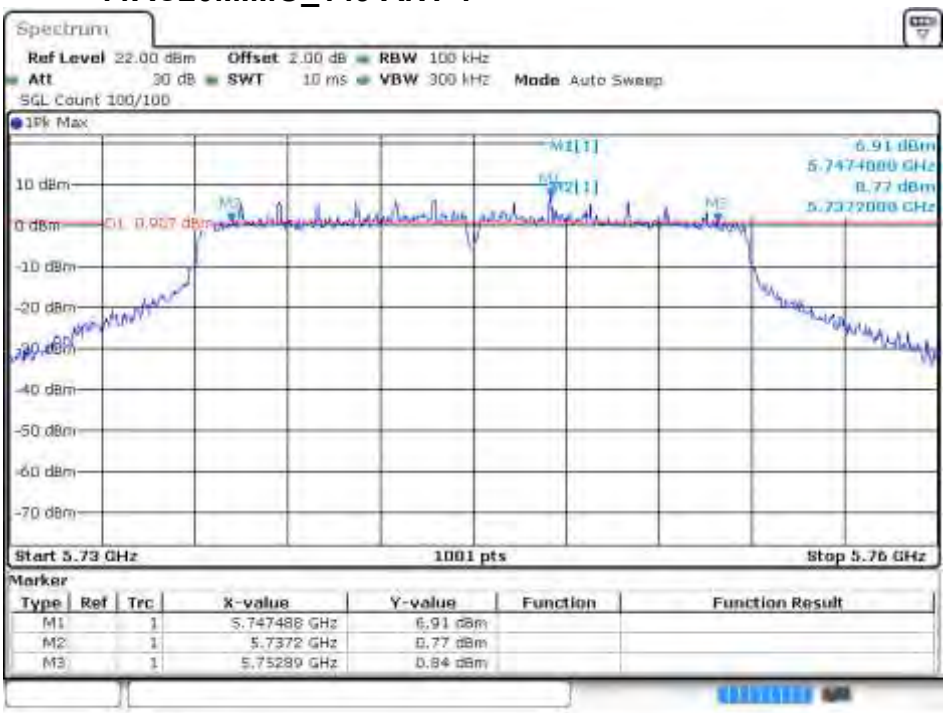
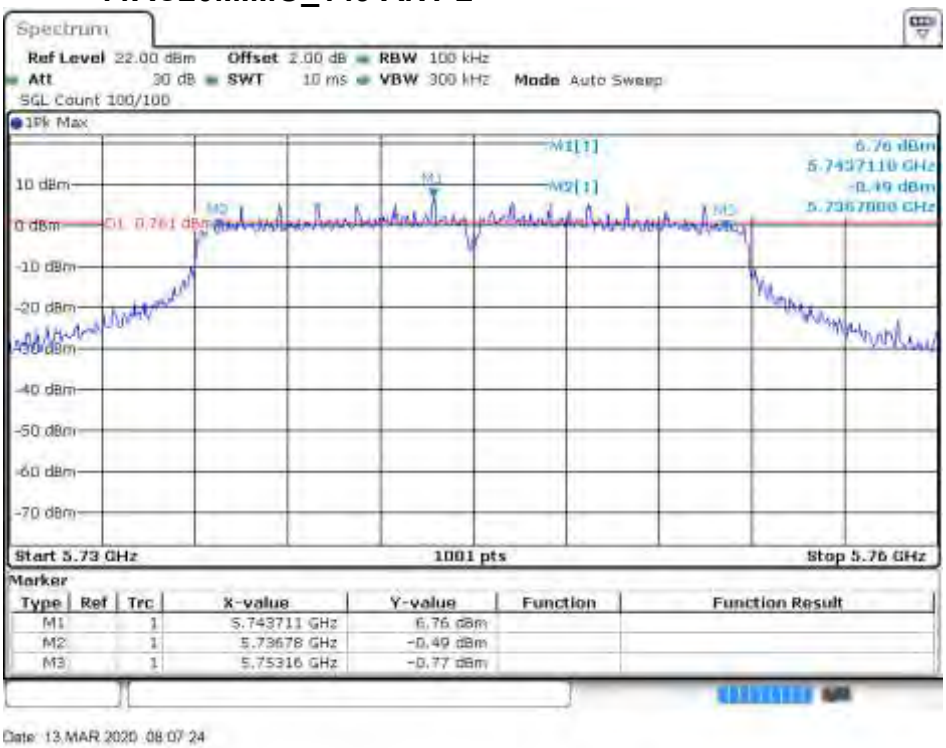
3.6.2.28 11AC20MIMO_149 ANT 1



3.6.2.29 11AC20MIMO_149 ANT 2



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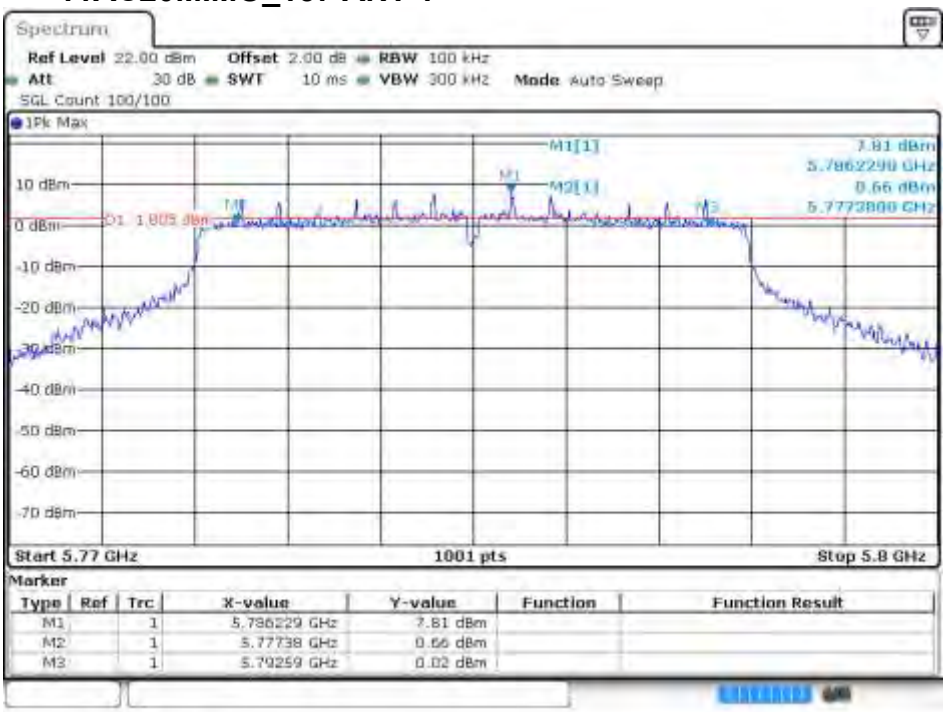
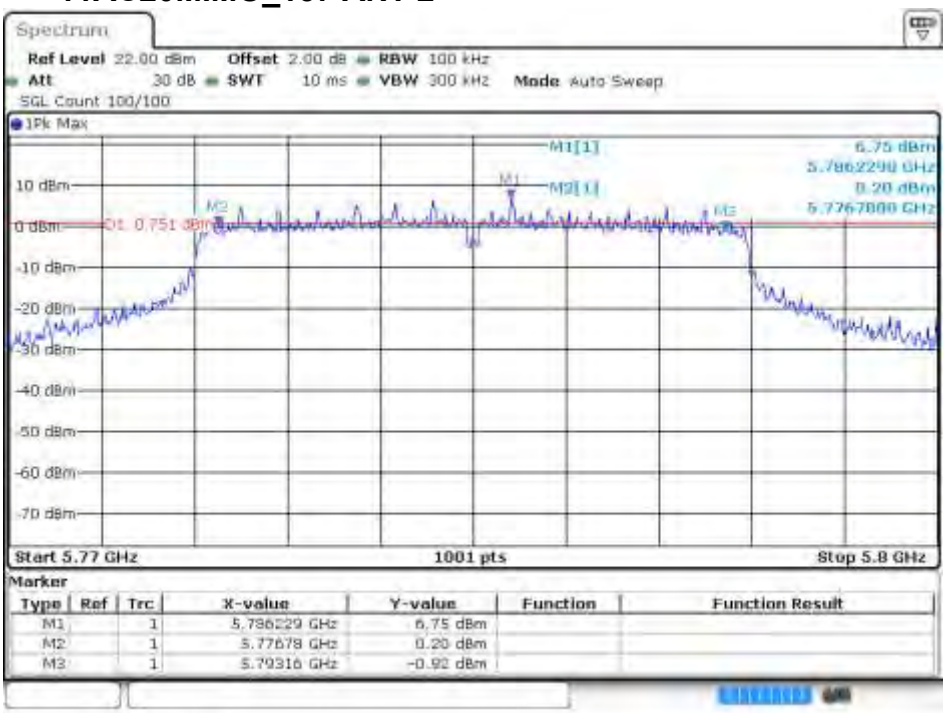
3.6.2.30 11AC20MIMO_157 ANT 1



Date: 12.MAR.2020 13:16:19

3.6.2.31 11AC20MIMO_157 ANT 2



Date: 13.MAR.2020 08:09:29

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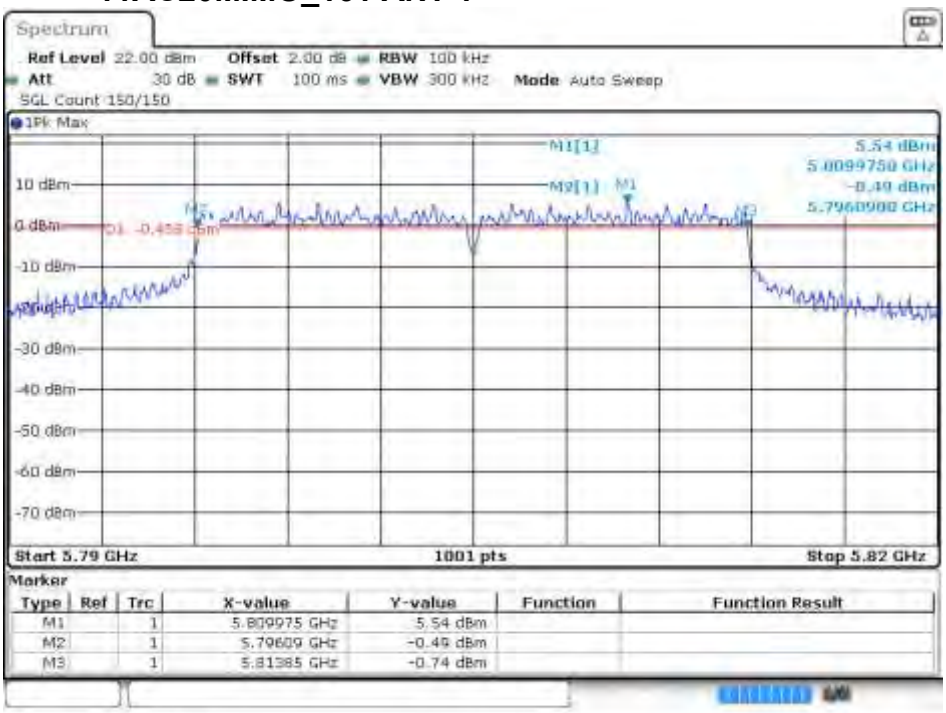
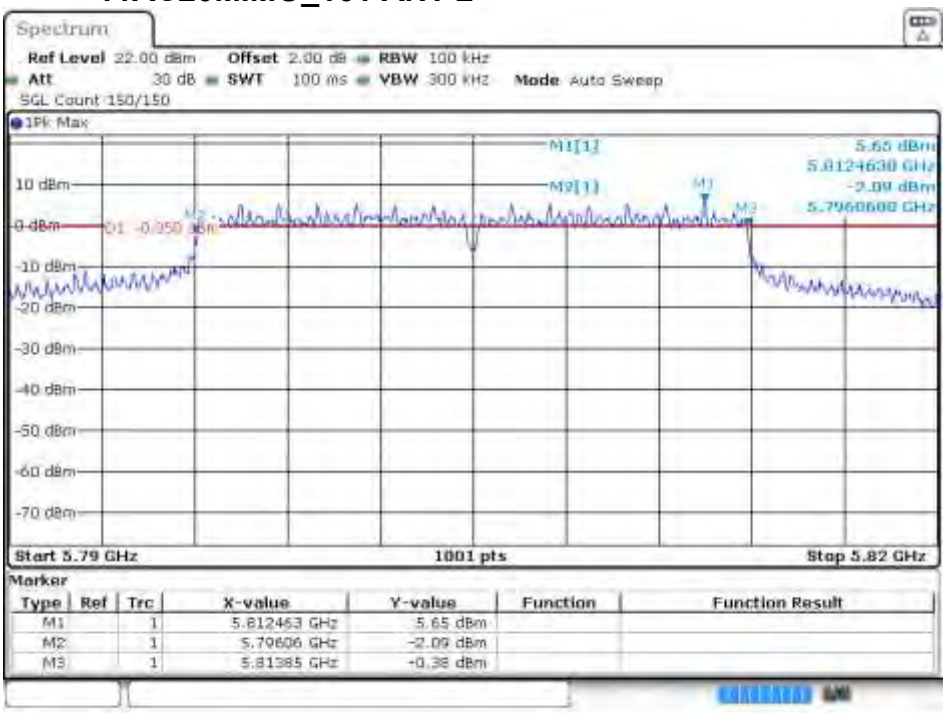
3.6.2.32 11AC20MIMO_161 ANT 1



3.6.2.33 11AC20MIMO_161 ANT 2



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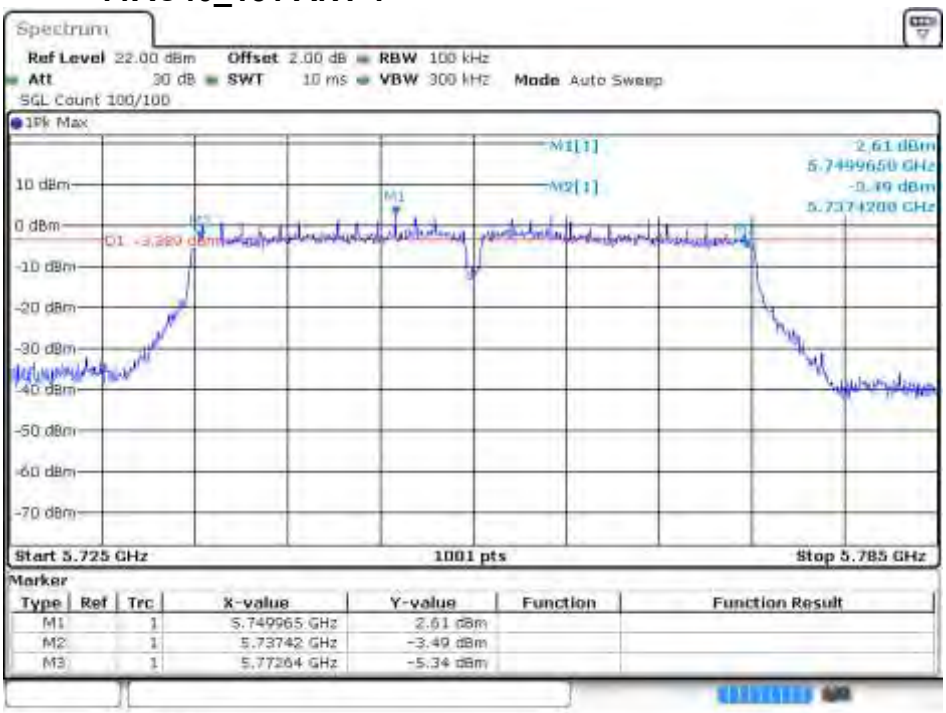
3.6.2.34 11AC40_151 ANT 1



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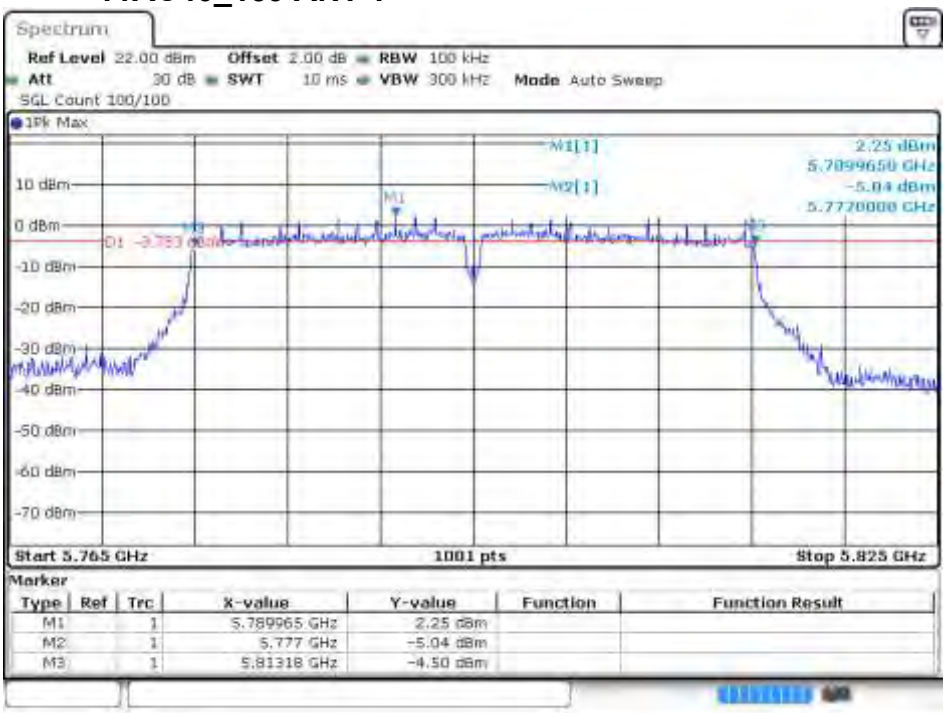
3.6.2.35 11AC40_159 ANT 1



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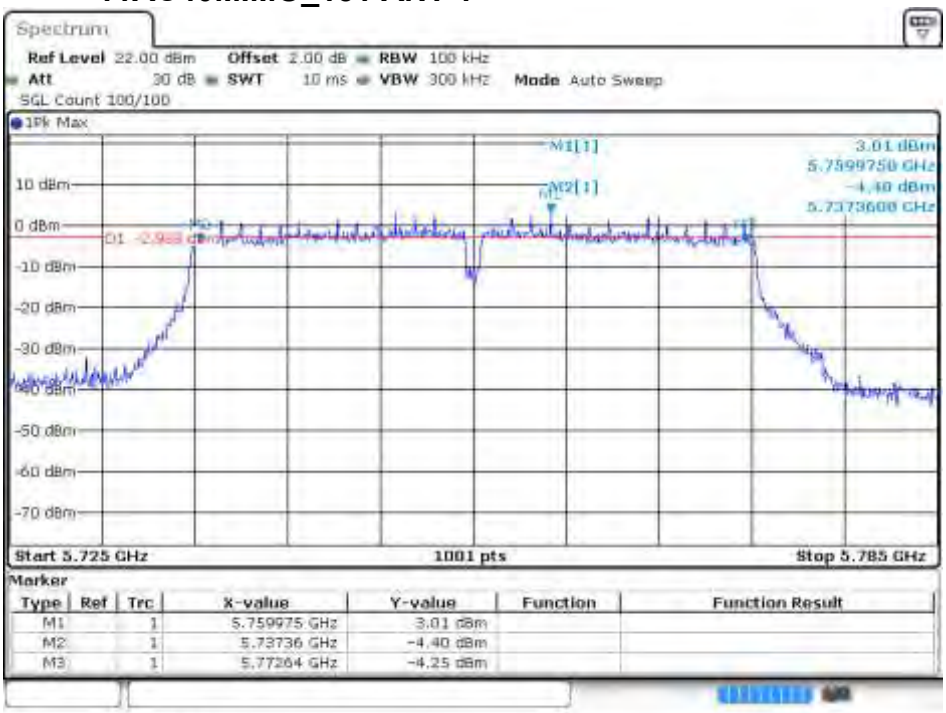
3.6.2.36 11AC40MIMO_151 ANT 1



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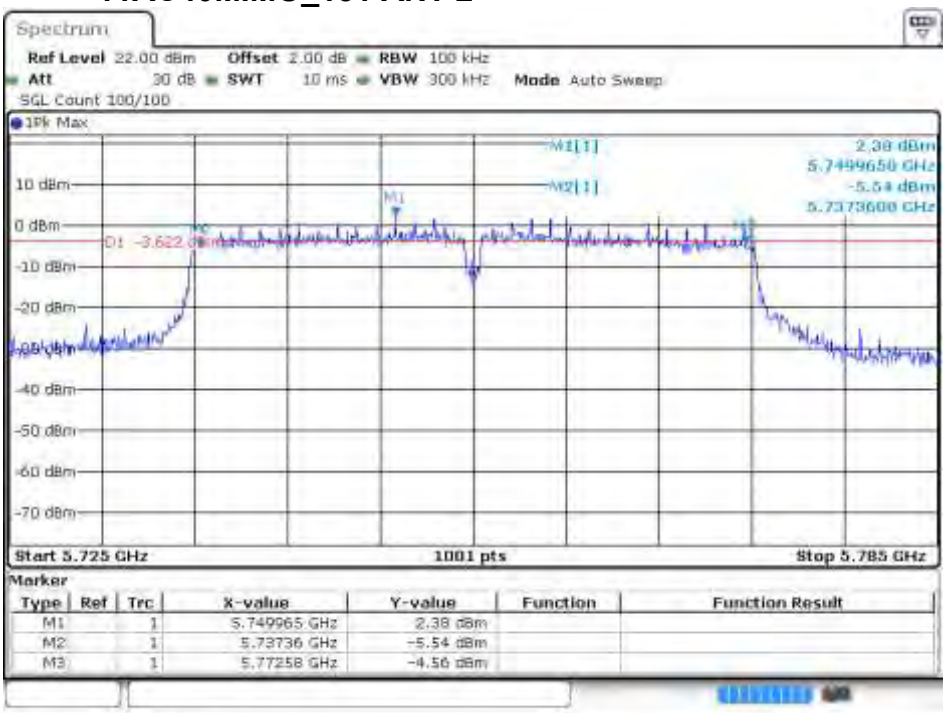
3.6.2.37 11AC40MIMO_151 ANT 2



Date: 13 MAR 2020 08:20:48

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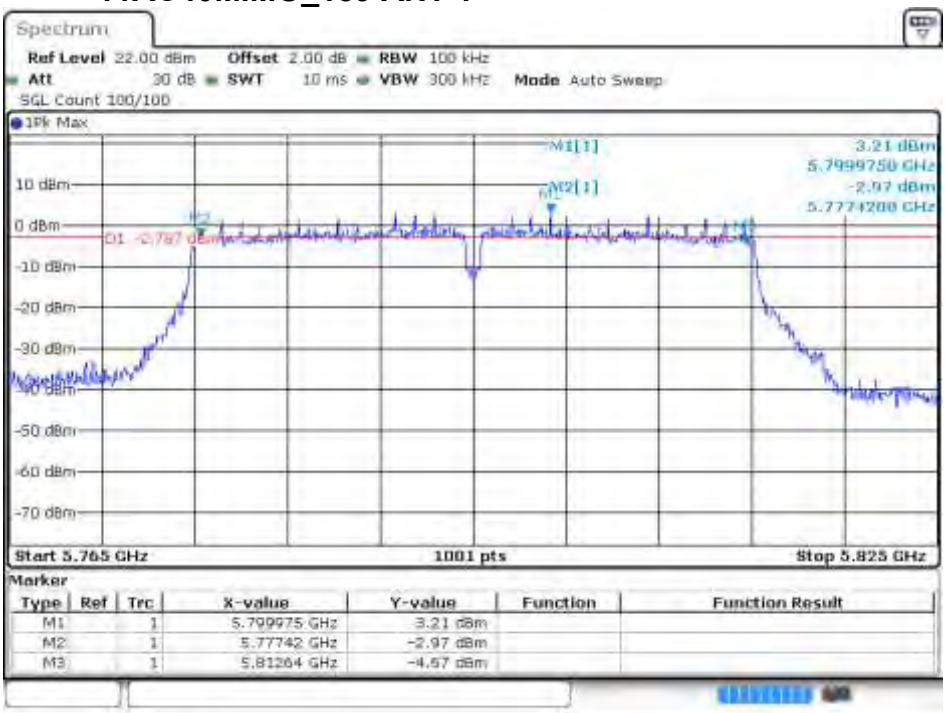
3.6.2.38 11AC40MIMO_159 ANT 1



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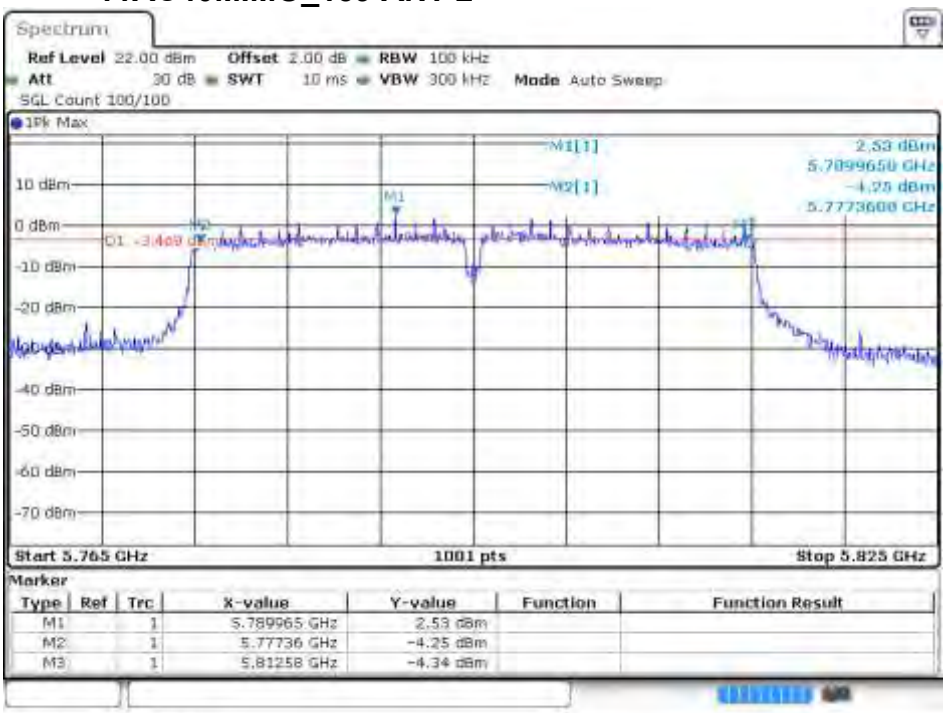
3.6.2.39 11AC40MIMO_159 ANT 2



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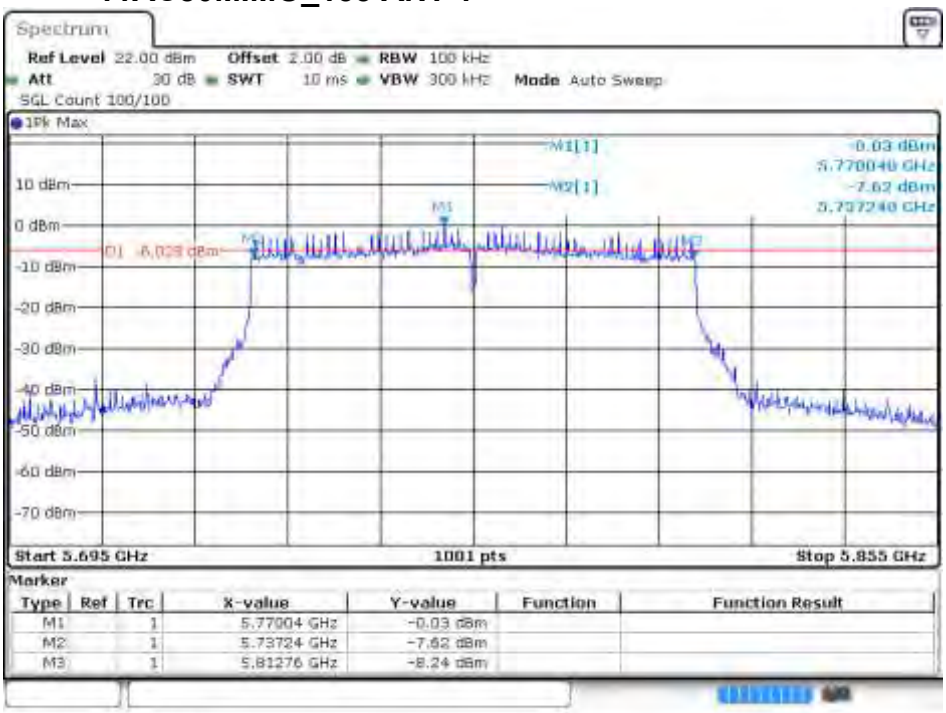
3.6.2.40 11AC80_155 ANT 1

3.6.2.41 11AC80MIMO_155 ANT 1



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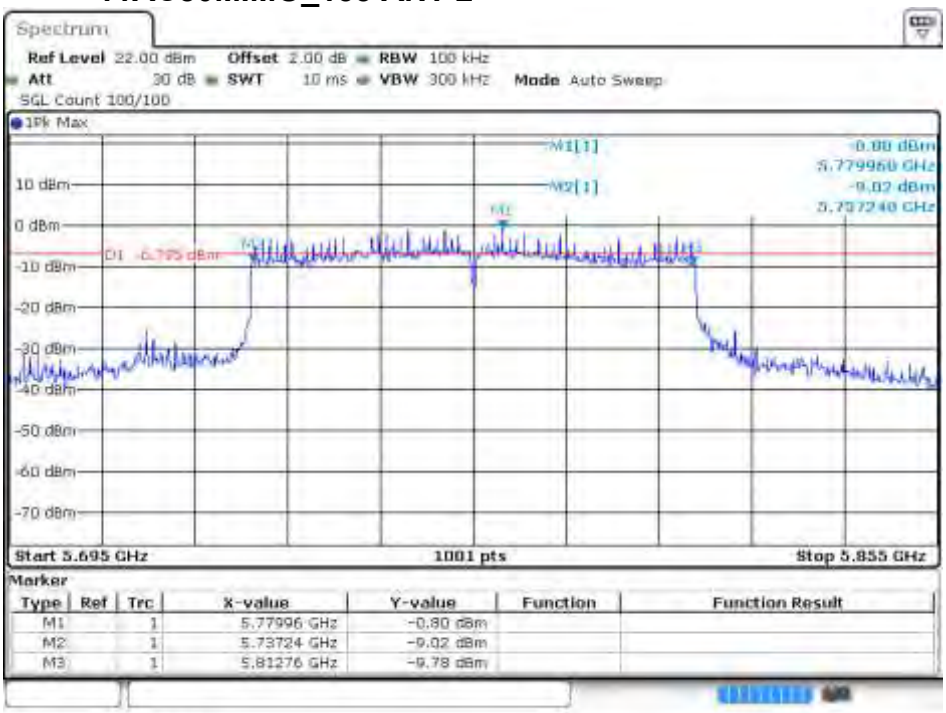
3.6.2.42 11AC80MIMO_155 ANT 2



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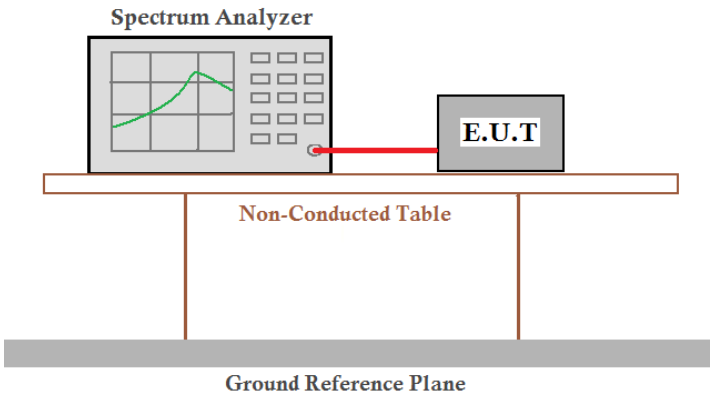
3.7 99% Occupied Bandwidth

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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3.7.1 Test Results For 99% Occupied Bandwidth

Test Mode	Test Channel	Frequency [MHz]			Verdict
			ANT 1	ANT 2	
11A20	36	5180	16.6933	---	PASS
	40	5200	16.6933	---	PASS
	48	5240	16.7233	---	PASS
	52	5260	16.6933	---	PASS
	60	5300	16.7233	---	PASS
	64	5320	16.7233	---	PASS
	100	5500	16.7532	---	PASS
	140	5700	17.0230	---	PASS
	149	5745	16.8731	---	PASS
	157	5785	16.9331	---	PASS
	161	5805	16.8432	---	PASS
11A20 CDD	36	5180	16.6633	16.5734	PASS
	40	5200	16.6633	16.5734	PASS
	48	5240	16.6633	16.5434	PASS
	52	5260	16.6933	16.5734	PASS
	60	5300	16.6933	16.5734	PASS
	64	5320	16.6933	16.5734	PASS
	100	5500	16.6633	16.5734	PASS
	140	5700	16.6933	18.1319	PASS
	149	5745	16.6334	17.7423	PASS
	157	5785	16.6633	17.1728	PASS
	161	5805	16.6334	17.2028	PASS
11N20	36	5180	17.8921	---	PASS
	40	5200	17.8921	---	PASS
	48	5240	17.8921	---	PASS
	52	5260	17.8921	---	PASS
	60	5300	17.8921	---	PASS
	64	5320	17.8921	---	PASS
	100	5500	17.8921	---	PASS
	140	5700	17.8921	---	PASS
	149	5745	17.9221	---	PASS
	157	5785	17.9221	---	PASS
	161	5805	17.9221	---	PASS

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11N20 MIMO	36	5180	17.8621	17.7722	PASS
	40	5200	17.9221	17.7722	PASS
	48	5240	17.9221	17.7722	PASS
	52	5260	17.9221	17.7423	PASS
	60	5300	17.9221	17.7423	PASS
	64	5320	17.8921	17.7722	PASS
	100	5500	17.8921	17.7722	PASS
	140	5700	17.9221	17.9221	PASS
	149	5745	17.8322	17.8022	PASS
	157	5785	17.8322	17.8621	PASS
	161	5805	17.8621	17.8621	PASS
11N40	38	5190	36.2637	---	PASS
	46	5230	36.2637	---	PASS
	54	5270	36.3237	---	PASS
	62	5310	36.3237	---	PASS
	102	5510	36.2637	---	PASS
	134	5670	36.2637	---	PASS
	151	5755	36.3237	---	PASS
	159	5795	36.3237	---	PASS
11N40 MIMO	38	5190	36.3237	36.2038	PASS
	46	5230	36.2637	36.2038	PASS
	54	5270	36.2637	36.2038	PASS
	62	5310	36.3237	36.2038	PASS
	102	5510	36.2637	36.2038	PASS
	134	5670	36.2637	36.2637	PASS
	151	5755	36.2637	36.2038	PASS
	159	5795	36.3237	36.2637	PASS
11AC20	36	5180	17.8921	---	PASS
	40	5200	17.8621	---	PASS
	48	5240	17.8921	---	PASS
	52	5260	17.9221	---	PASS
	60	5300	17.8921	---	PASS
	64	5320	17.8921	---	PASS
	100	5500	17.9221	---	PASS
	140	5700	17.9221	---	PASS
	149	5745	17.8921	---	PASS
	157	5785	17.9221	---	PASS
	161	5805	17.8921	---	PASS
11AC20 MIMO	36	5180	17.8921	17.7722	PASS
	40	5200	17.8921	17.7722	PASS
	48	5240	17.8921	17.7722	PASS
	52	5260	17.8921	17.7423	PASS
	60	5300	17.8921	17.7722	PASS

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	64	5320	17.8921	17.7722	PASS
	100	5500	17.8921	17.7423	PASS
	140	5700	17.8621	17.9221	PASS
	149	5745	17.8621	17.8322	PASS
	157	5785	17.8322	17.8921	PASS
	161	5805	17.8621	17.9520	PASS
11AC40	38	5190	36.2637	---	PASS
	46	5230	36.2637	---	PASS
	54	5270	36.3237	---	PASS
	62	5310	36.3237	---	PASS
	102	5510	36.3237	---	PASS
	134	5670	36.3237	---	PASS
	151	5755	36.3237	---	PASS
	159	5795	36.3237	---	PASS
11AC40 MIMO	38	5190	36.2637	36.2038	PASS
	46	5230	36.2637	36.2038	PASS
	54	5270	36.2637	36.2038	PASS
	62	5310	36.2637	36.2038	PASS
	102	5510	36.2637	36.2038	PASS
	134	5670	36.2637	36.2637	PASS
	151	5755	36.2637	36.2637	PASS
	159	5795	36.3237	36.2637	PASS
11AC80	42	5210	75.6444	---	PASS
	58	5290	75.6444	---	PASS
	106	5530	75.6444	---	PASS
	155	5775	75.7642	---	PASS
11AC80 MIMO	42	5210	75.6444	75.5245	PASS
	58	5290	75.5245	75.6444	PASS
	106	5530	75.6444	75.4046	PASS
	155	5775	75.6444	75.7642	PASS

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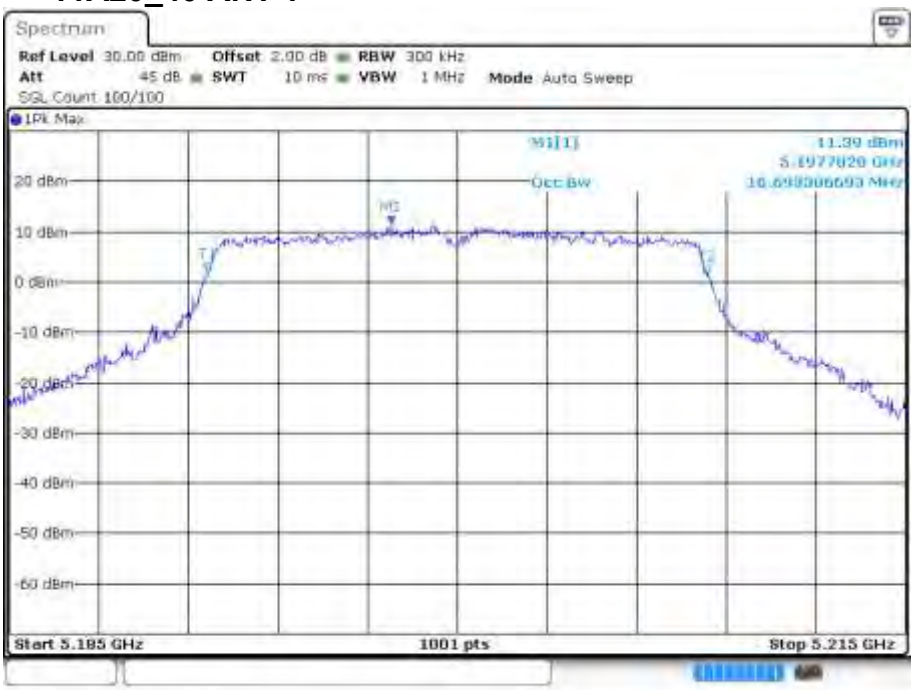
3.7.2 Test Plots For 99% Occupied Bandwidth

3.7.2.1 11A20_36 ANT 1

Date: 13.MAR.2020 08:54:44

3.7.2.2 11A20_40 ANT 1



Date: 13.MAR.2020 08:56:35

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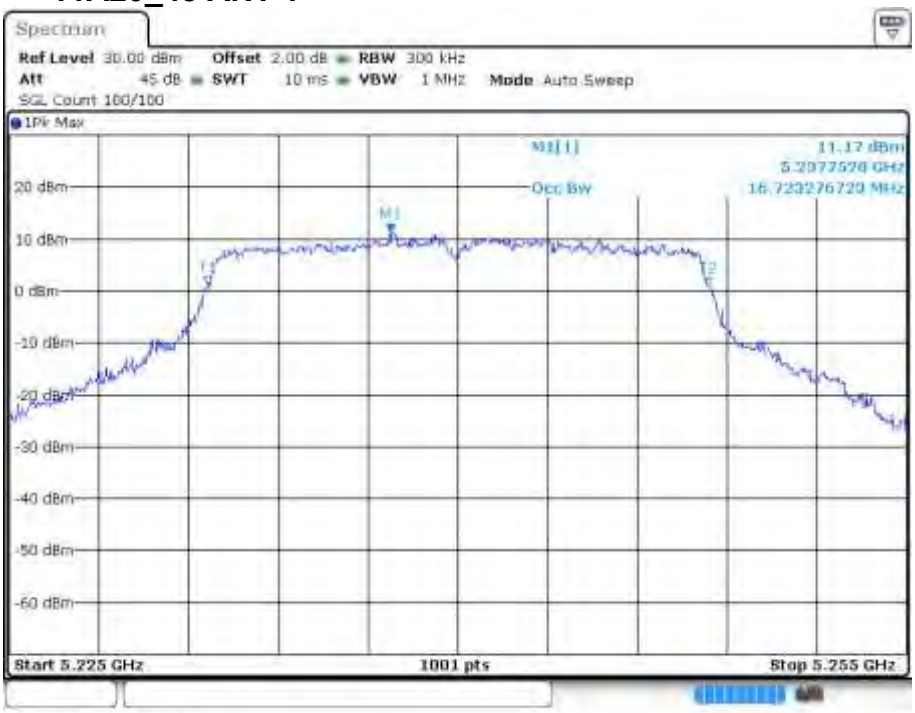
3.7.2.3 11A20_48 ANT 1



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3.7.2.4 11A20_52 ANT 1

Date: 13.MAR.2020 08:59:16

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3.7.2.5 11A20_60 ANT 1

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3.7.2.6 11A20_64 ANT 1

Date: 13.MAR.2020 09:01:37

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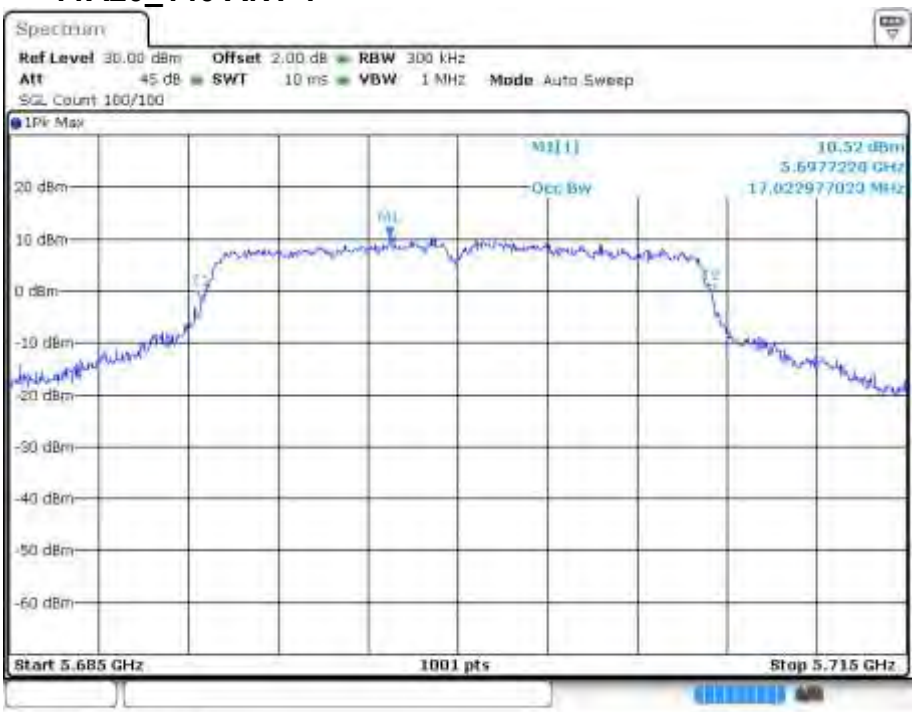
3.7.2.7 11A20_100 ANT 1

Date: 13.MAR.2020 09:02:54

3.7.2.8 11A20_140 ANT 1



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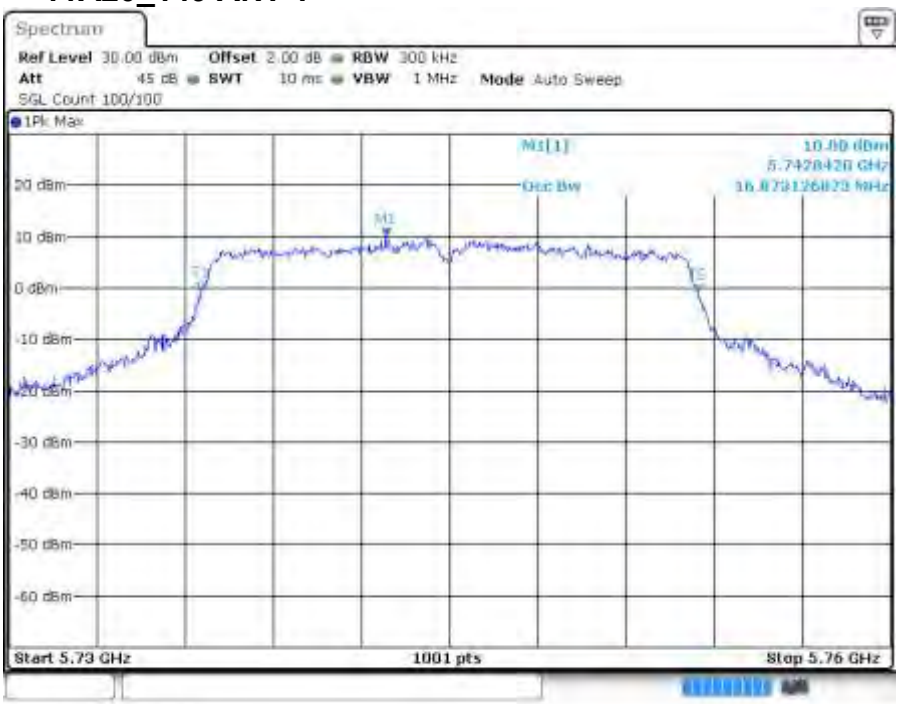
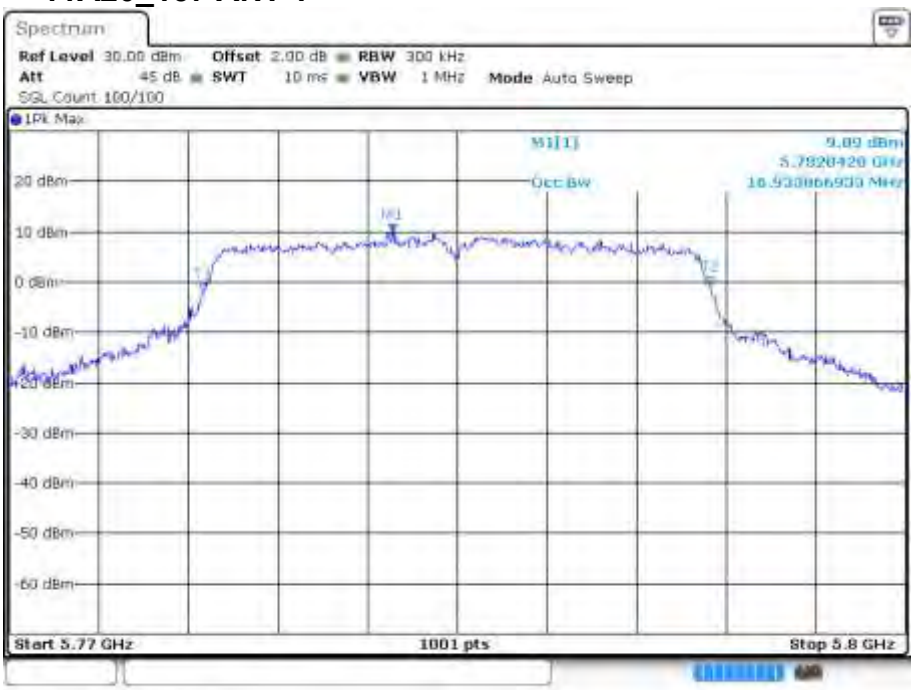
3.7.2.9 11A20_149 ANT 1



Date: 13.MAR.2020 09:05:13

3.7.2.10 11A20_157 ANT 1



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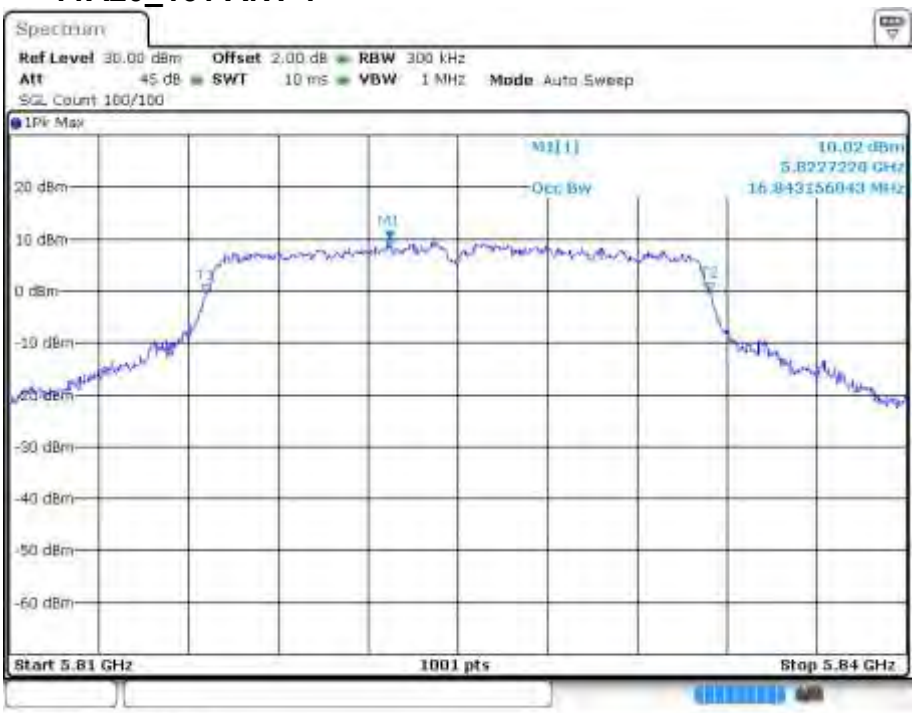
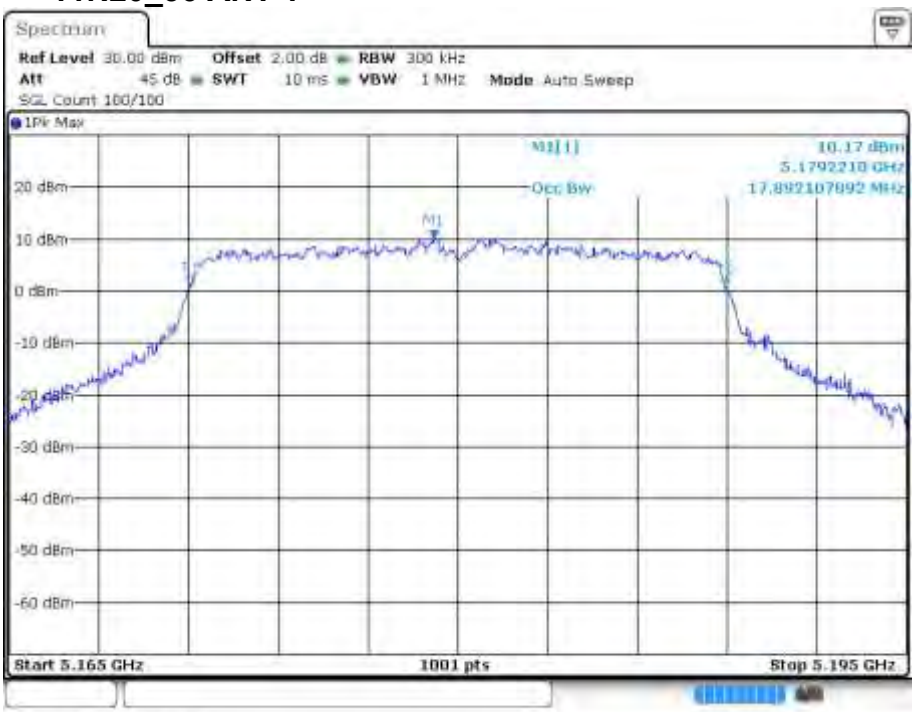
3.7.2.11 11A20_161 ANT 1



Date: 13.MAR.2020 09:07:33

3.7.2.12 11N20_36 ANT 1



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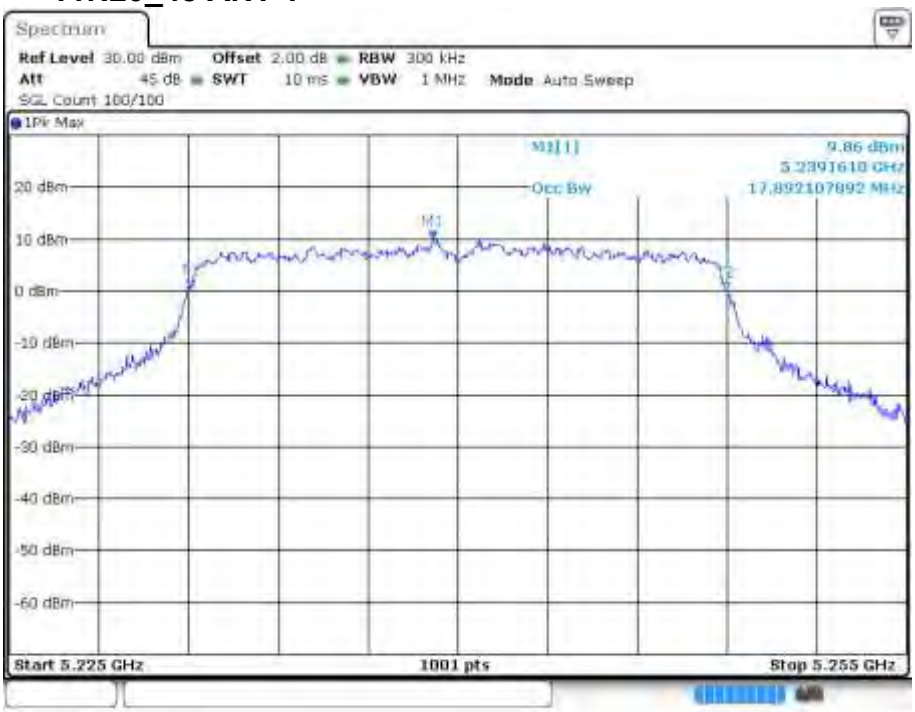
3.7.2.13 11N20_40 ANT 1

Date: 13.MAR.2020 09:10:38

3.7.2.14 11N20_48 ANT 1



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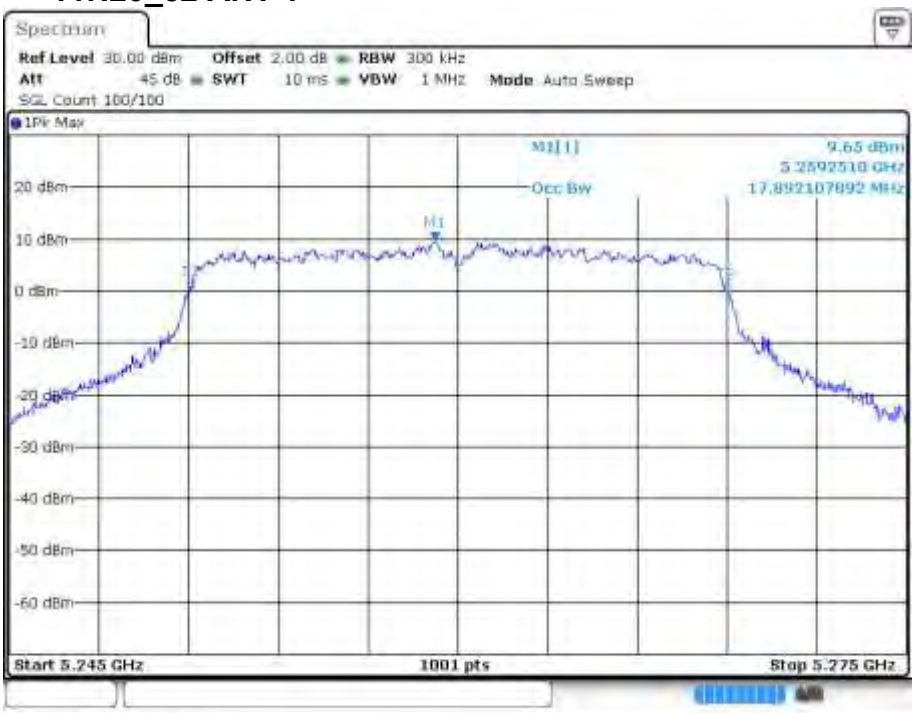
3.7.2.15 11N20_52 ANT 1



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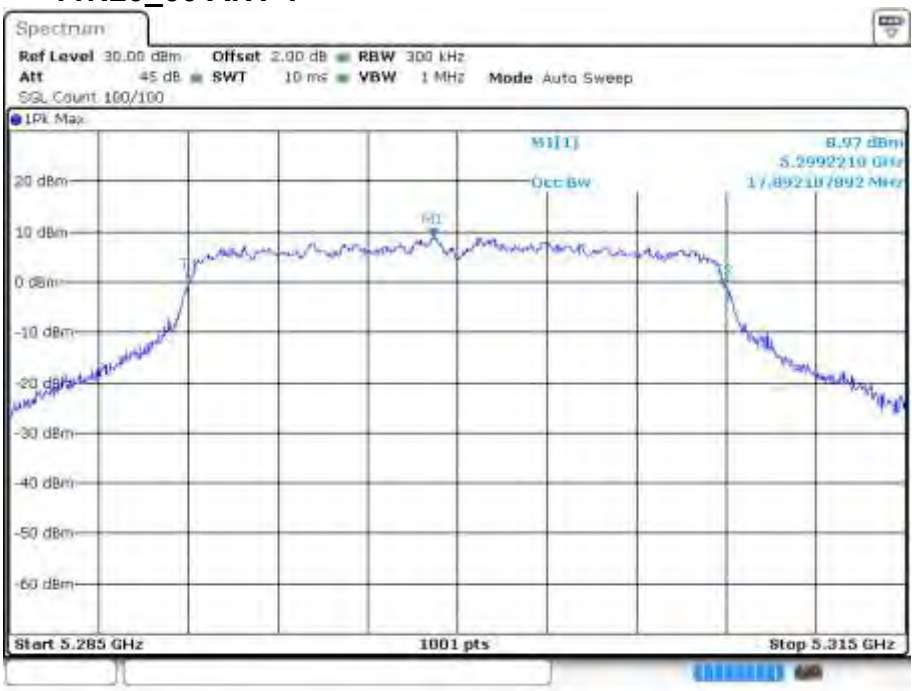
3.7.2.16 11N20_60 ANT 1



Date: 13.MAR.2020 09:14:14

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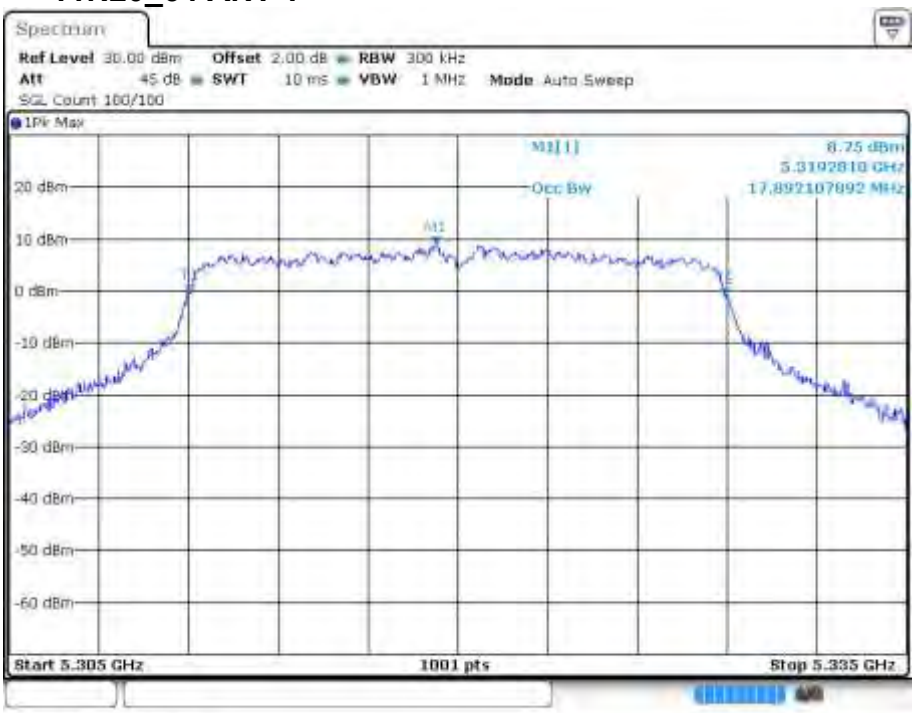
3.7.2.17 11N20_64 ANT 1



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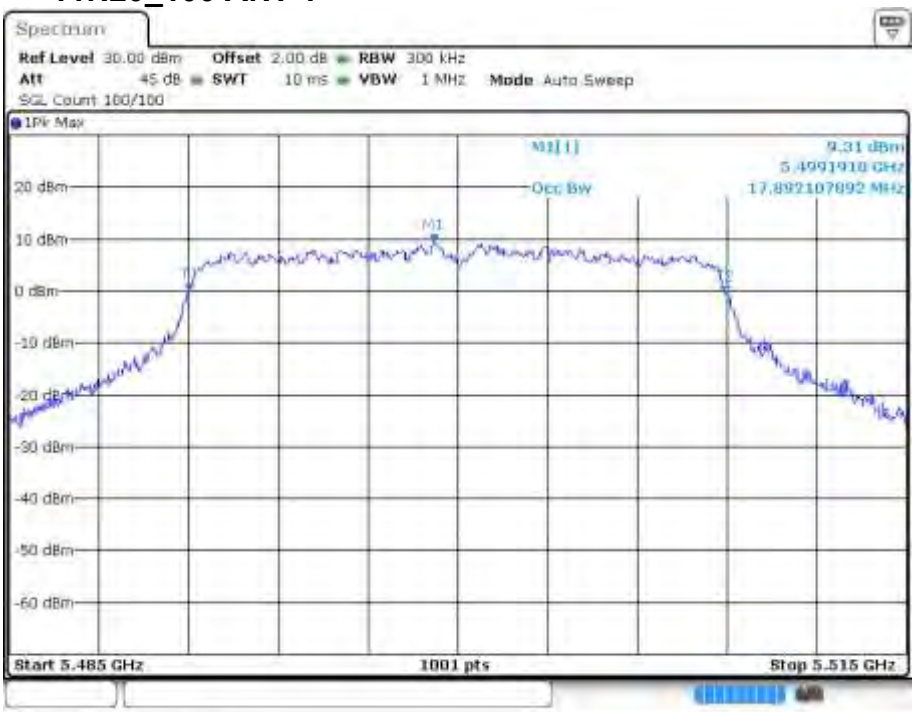

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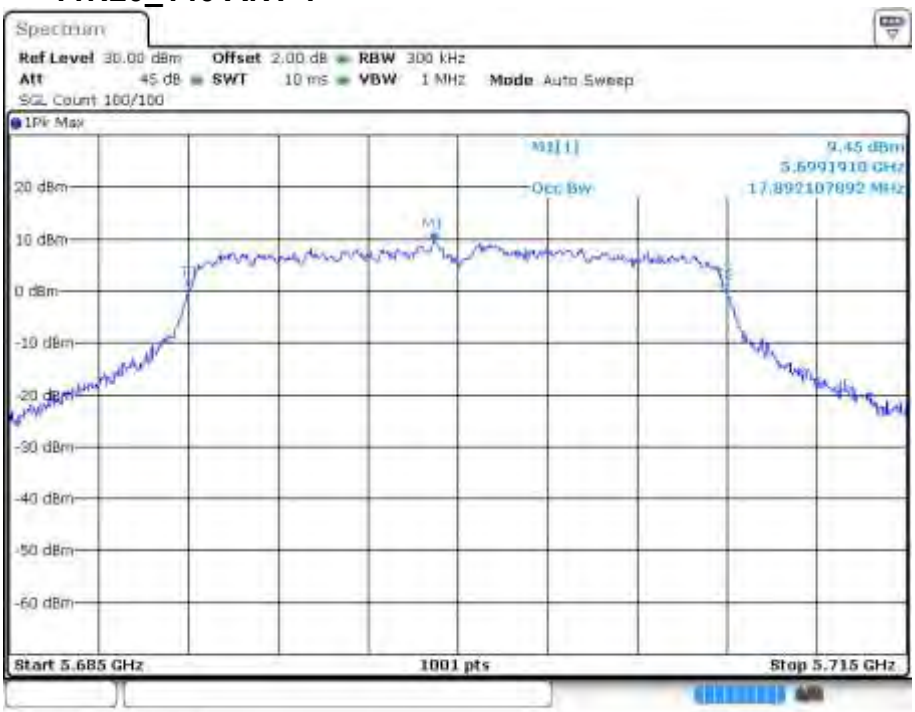
3.7.2.19 11N20_140 ANT 1



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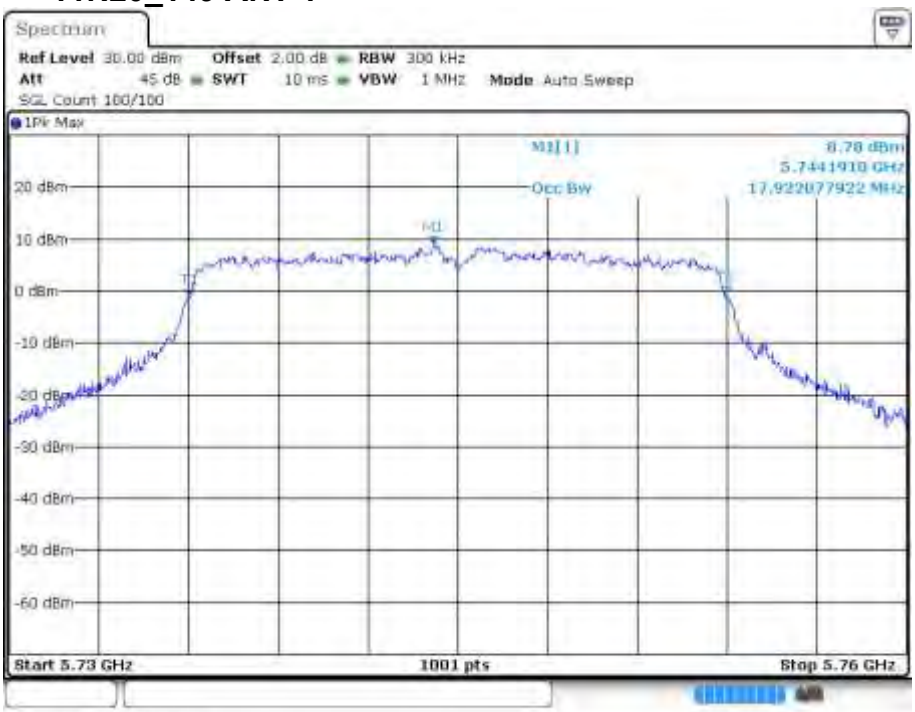
3.7.2.20 11N20_149 ANT 1



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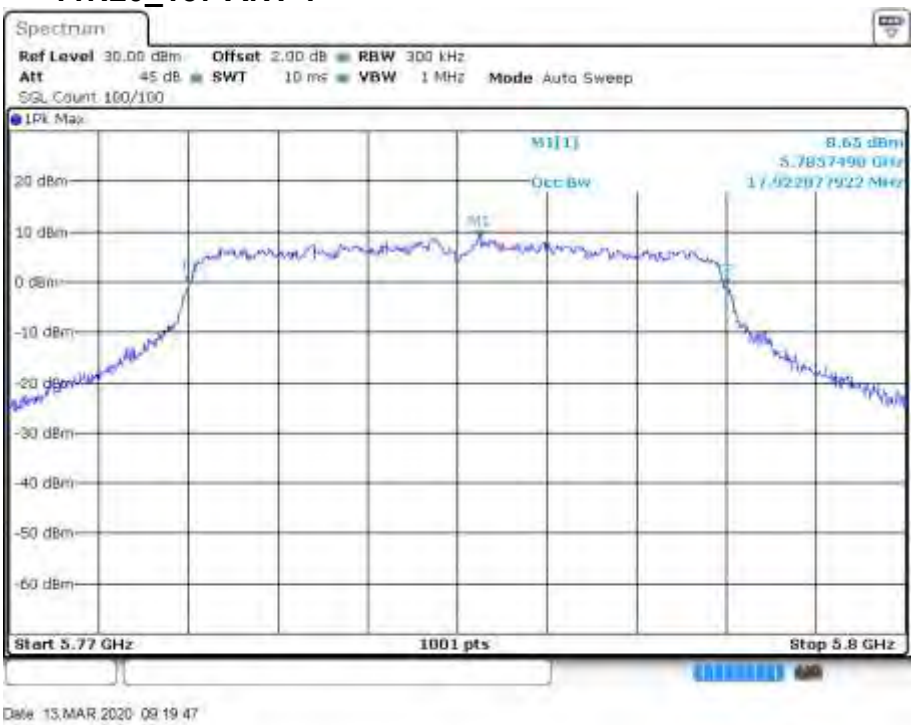
3.7.2.21 11N20_157 ANT 1



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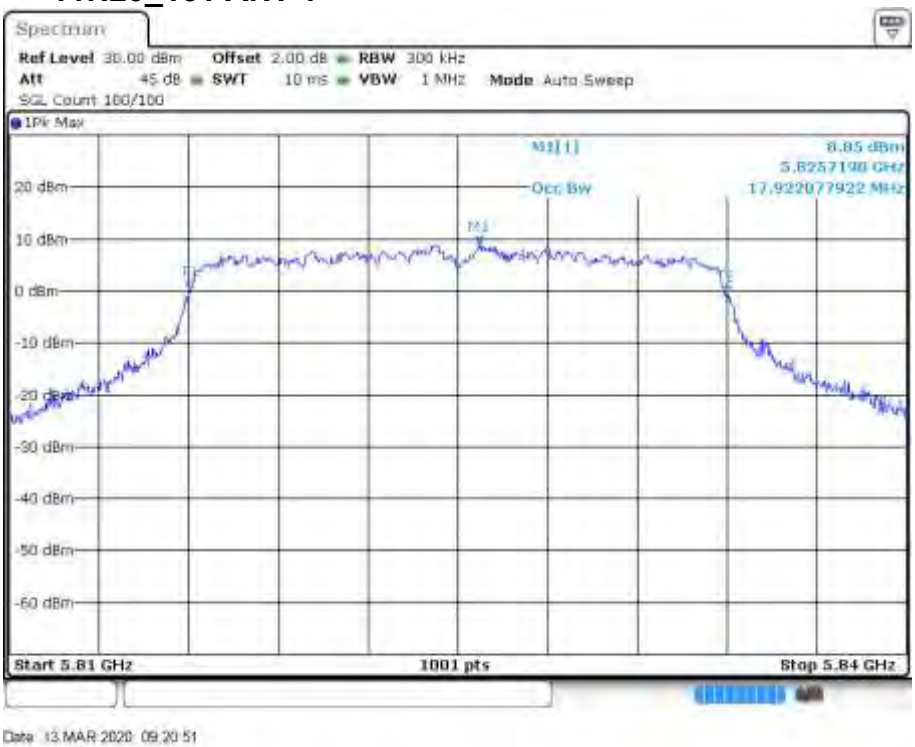

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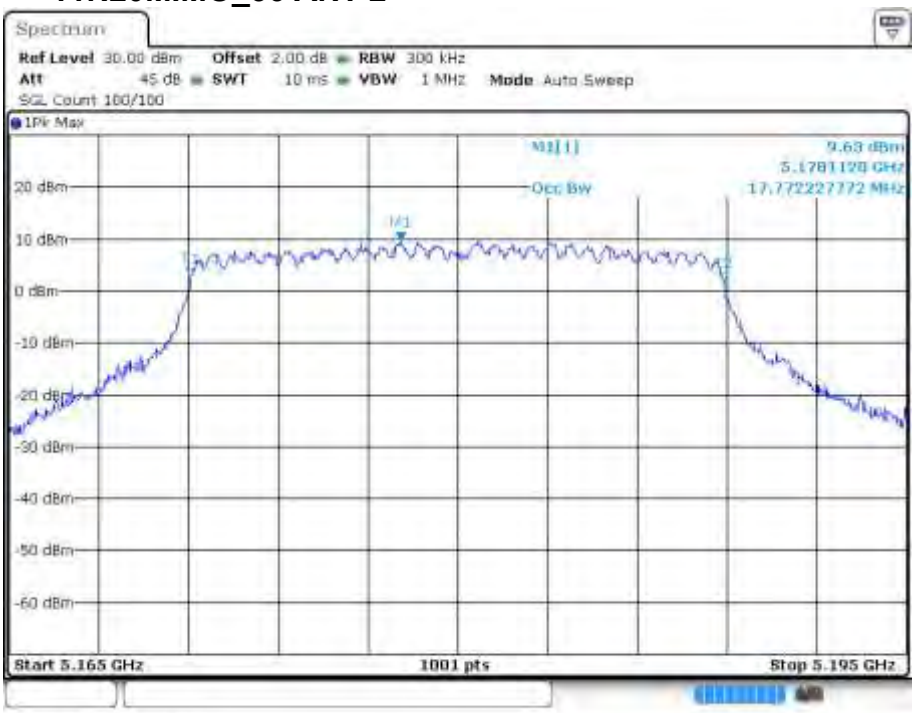
3.7.2.23 11N20MIMO_36 ANT 1

Date: 12.MAR.2020 12:18:40

3.7.2.24 11N20MIMO_36 ANT 2



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3.7.2.25 11N20MIMO_40 ANT 1

Date: 12.MAR.2020 12:19:53

3.7.2.26 11N20MIMO_40 ANT 2

Date: 13.MAR.2020 07:29:27

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3.7.2.27 11N20MIMO_48 ANT 1

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3.7.2.28 11N20MIMO_48 ANT 2

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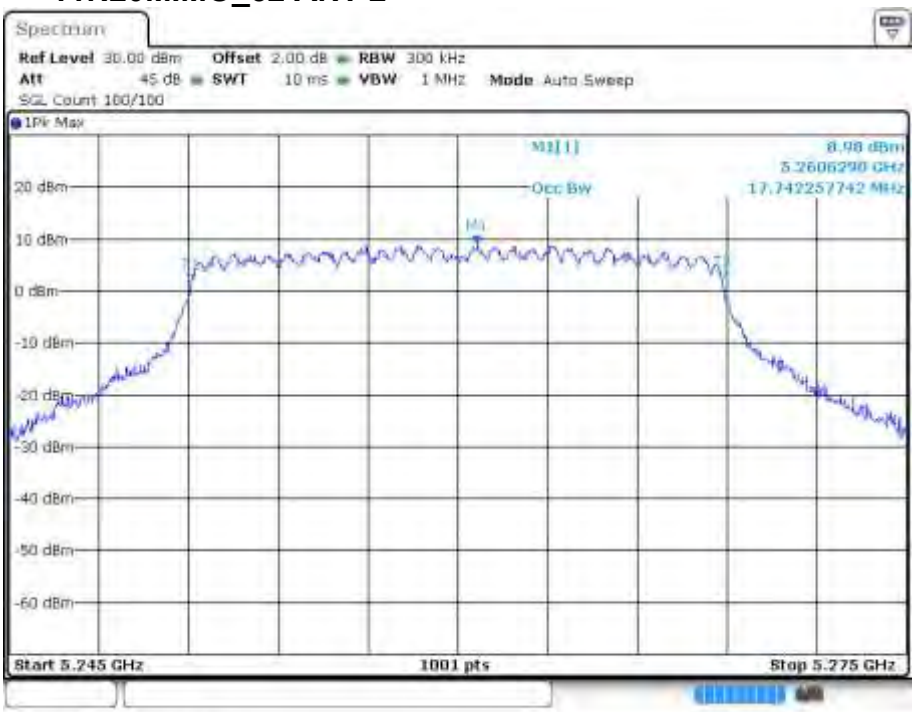
Date: 12.MAR.2020 12:29:19

3.7.2.30 11N20MIMO_52 ANT 2



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3.7.2.31 11N20MIMO_60 ANT 1

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3.7.2.32 11N20MIMO_60 ANT 2

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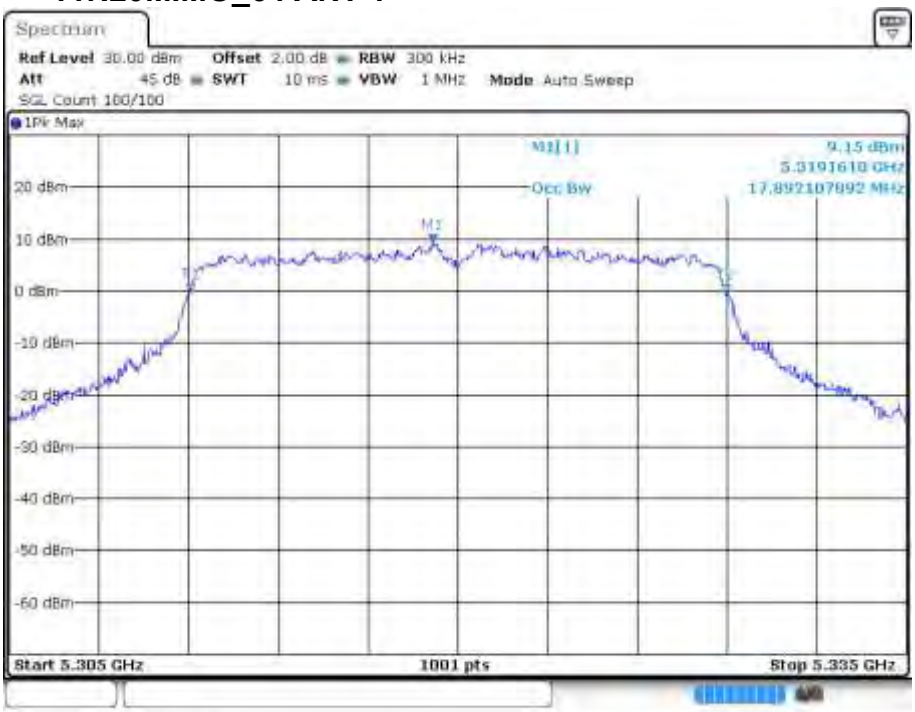
3.7.2.33 11N20MIMO_64 ANT 1



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3.7.2.34 11N20MIMO_64 ANT 2

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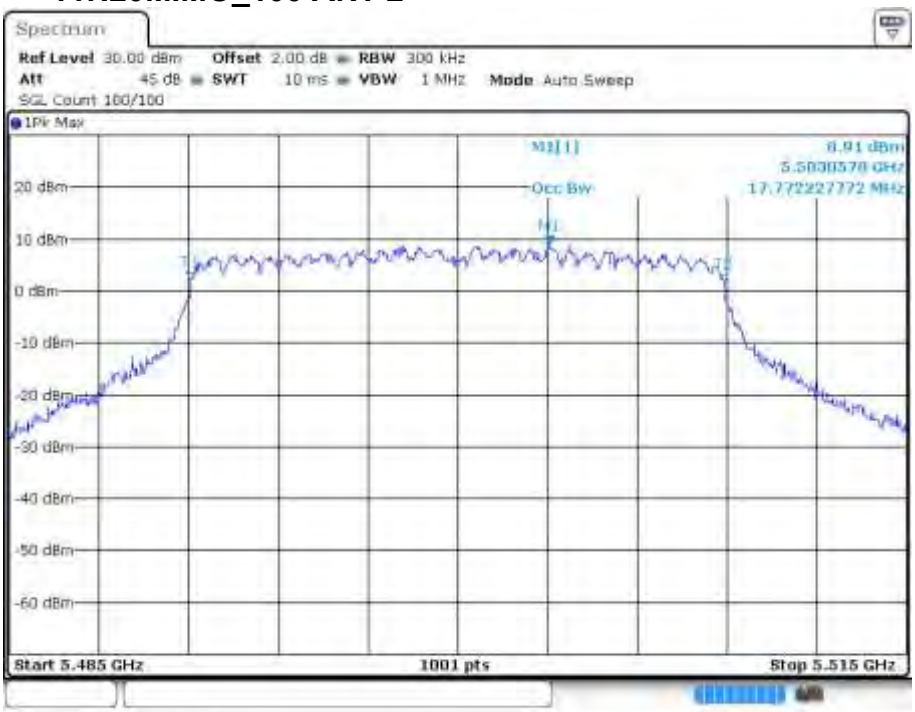
3.7.2.35 11N20MIMO_100 ANT 1

Date: 12.MAR.2020 12:36:13

3.7.2.36 11N20MIMO_100 ANT 2



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