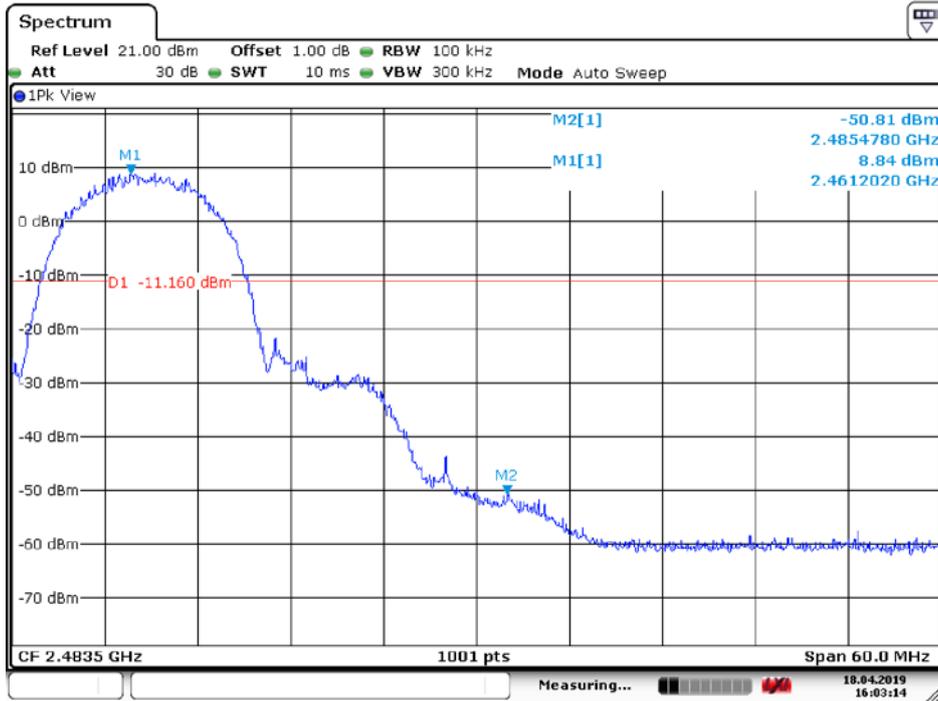
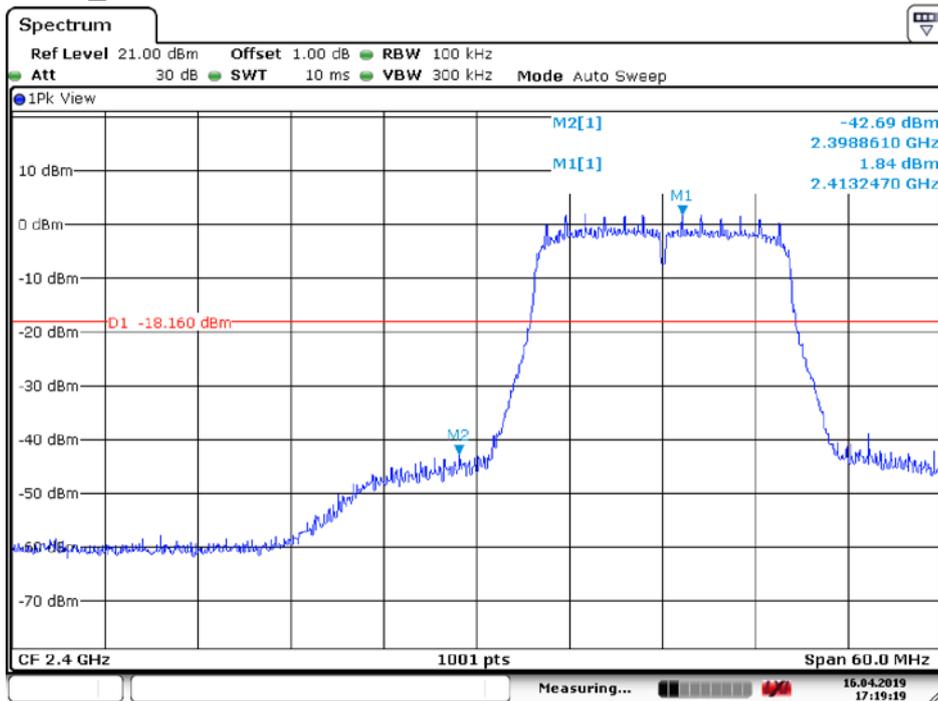


4.7.1.1.2 802.11B_Highest Channel



Date: 18.APR.2019 16:03:14

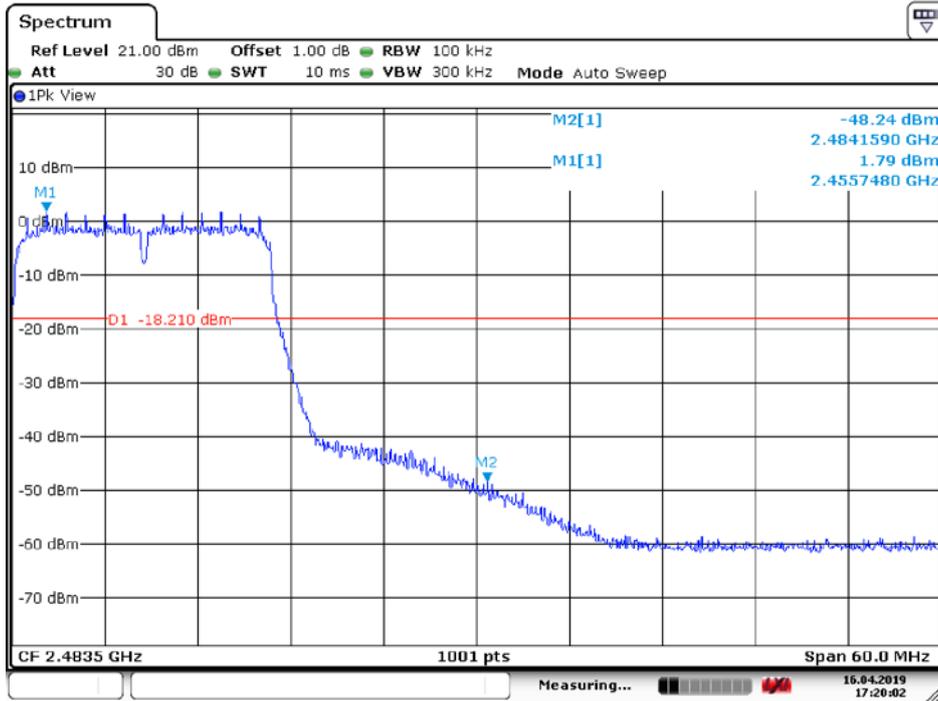
4.7.1.1.3 802.11G_Lowest Channel



Date: 16.APR.2019 17:19:20

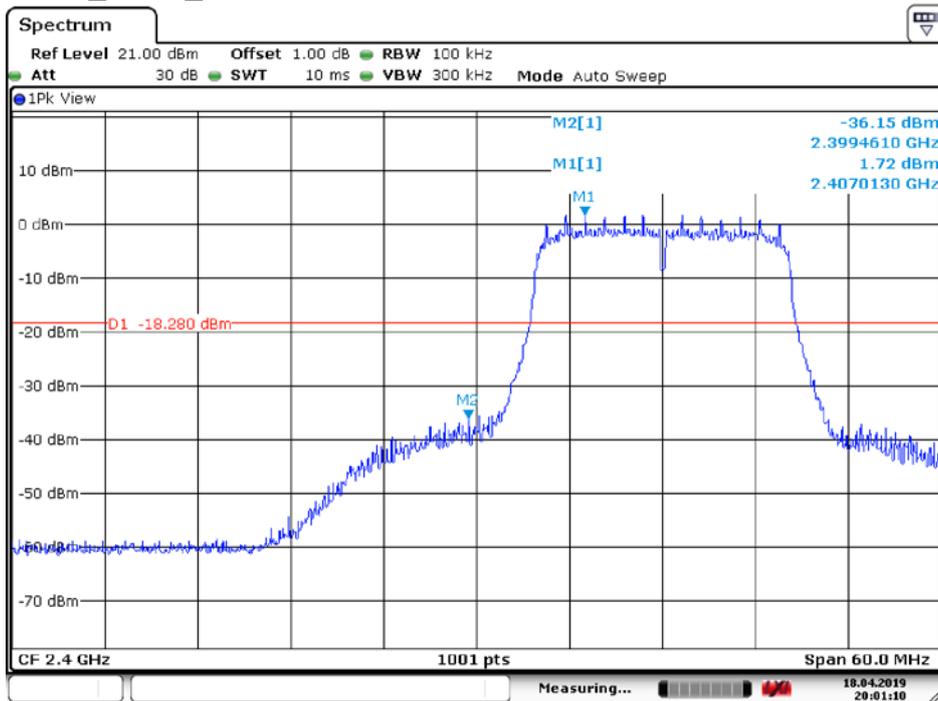


4.7.1.1.4 802.11G_Highest Channel



Date: 16.APR.2019 17:20:03

4.7.1.1.5 802.11G_CDD_Lowest Channel



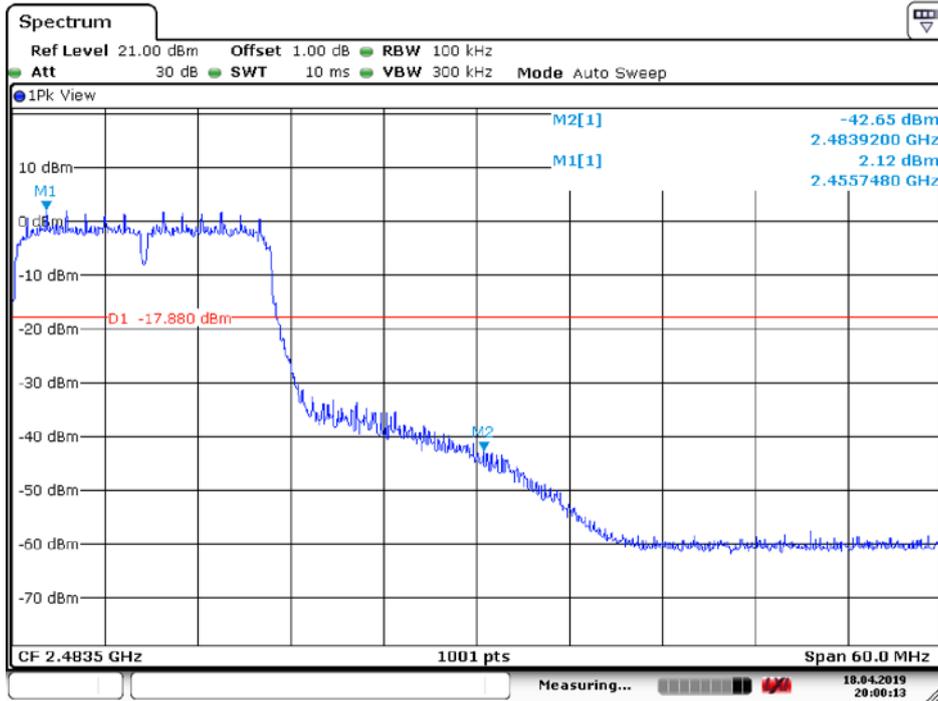
Date: 18.APR.2019 20:01:10



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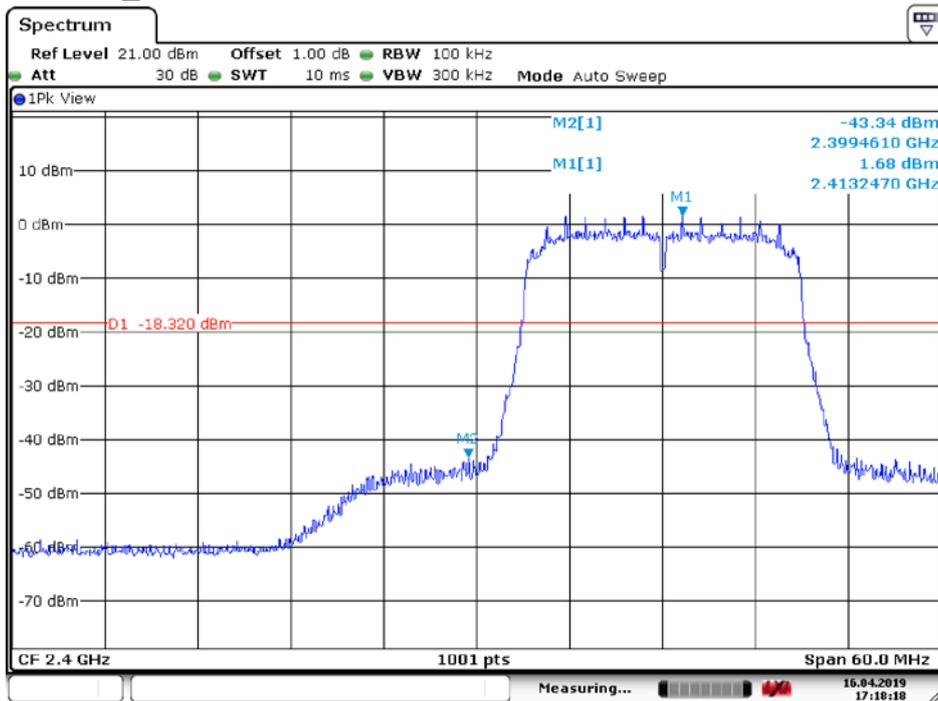
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4.7.1.1.6 802.11G_CDD_Highest Channel



Date: 18.APR.2019 20:00:13

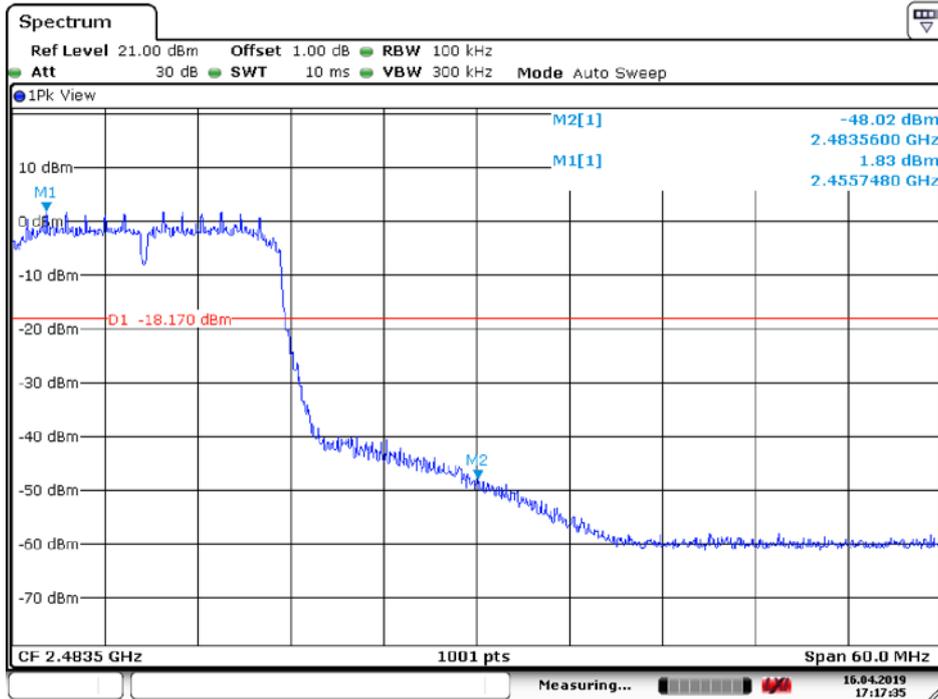
4.7.1.1.7 802.11N20_Lowest Channel



Date: 16.APR.2019 17:16:16

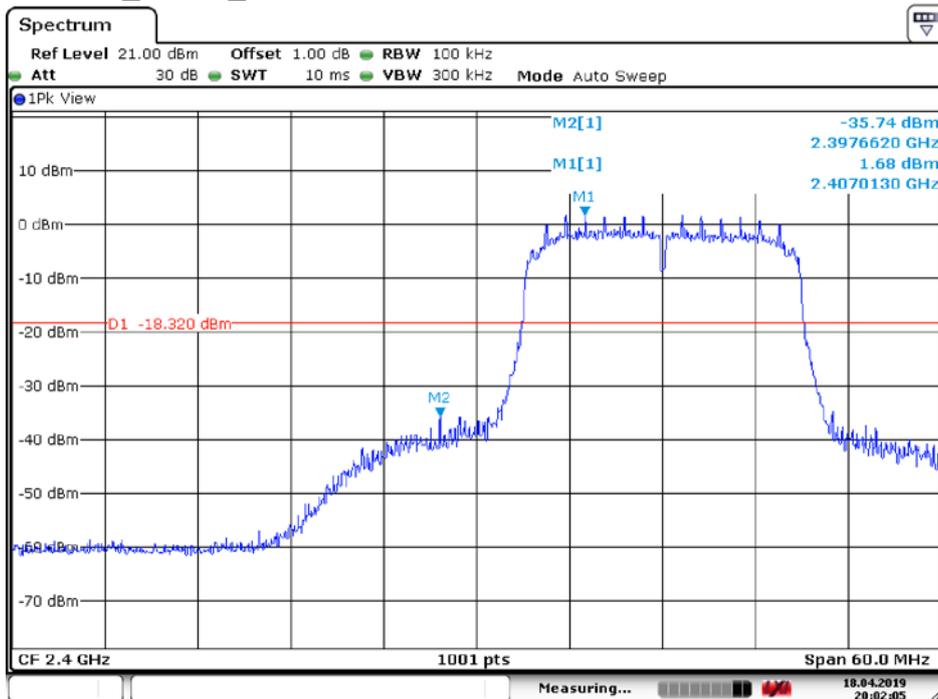


4.7.1.1.8 802.11 N20_ Highest Channel



Date: 16.APR.2019 17:17:35

4.7.1.1.9 802.11N20_MIMO_Lowest Channel



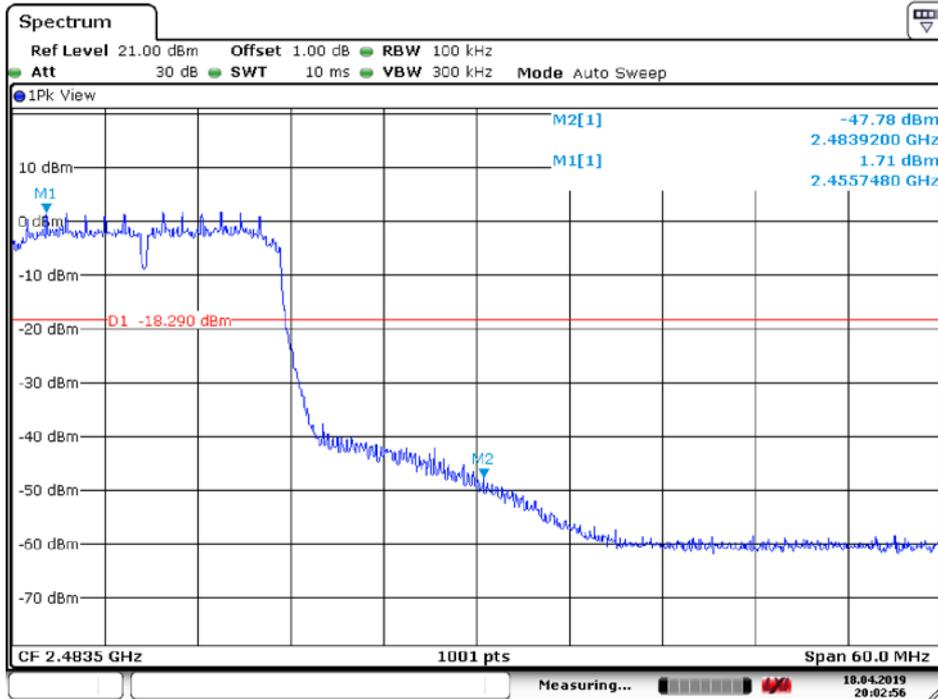
Date: 18.APR.2019 20:02:05



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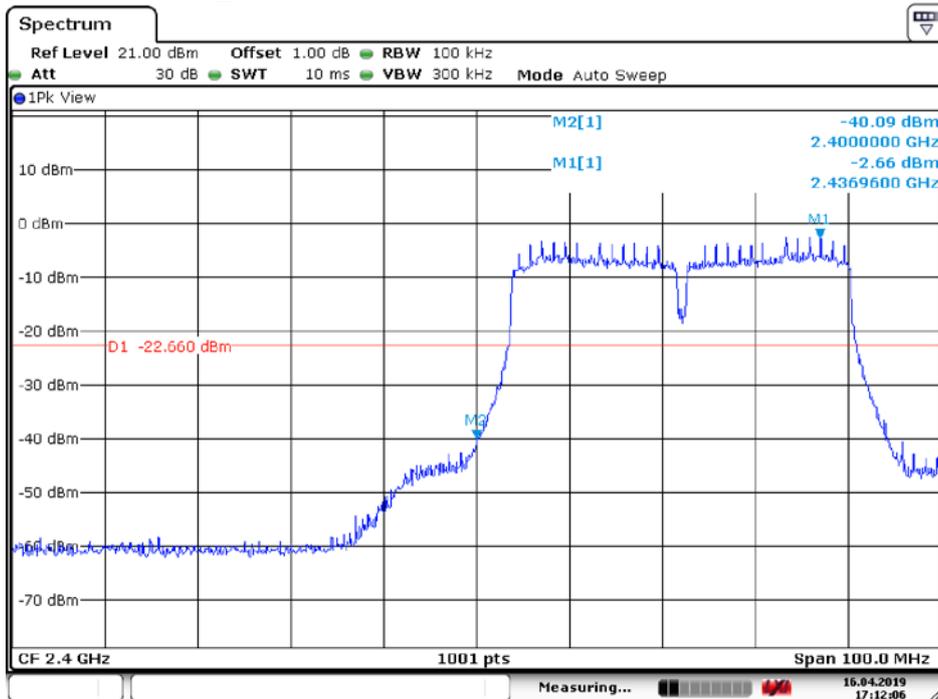
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4.7.1.1.10 802.11 N20_ MIMO_ Highest Channel



Date: 18.APR.2019 20:02:57

4.7.1.1.11 802.11N40_ Lowest Channel

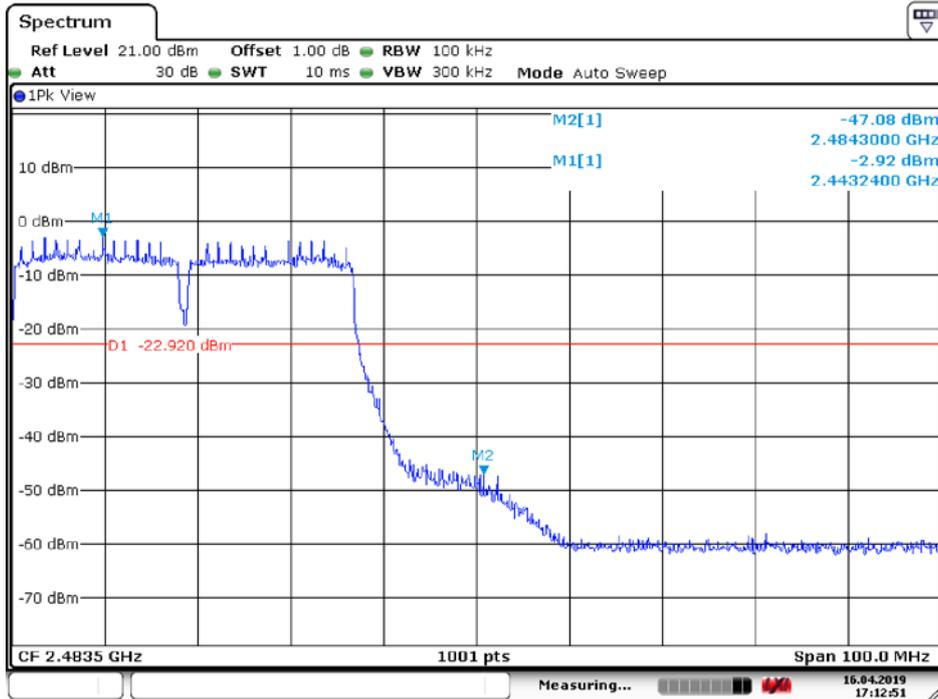


Date: 16.APR.2019 17:12:06



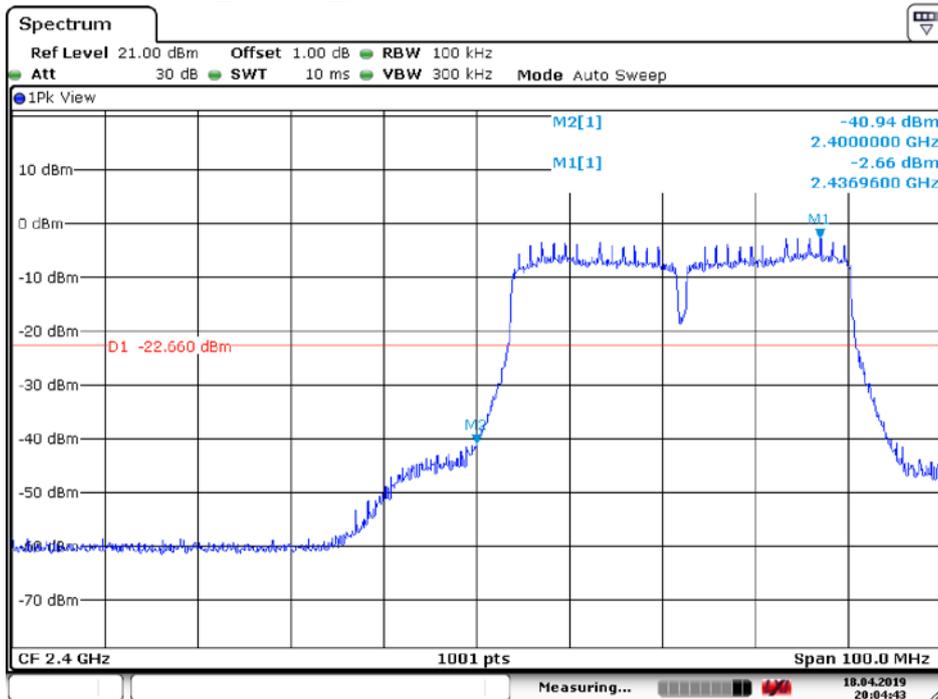
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4.7.1.1.12 802.11 N40_ Highest Channel



Date: 16.APR.2019 17:12:52

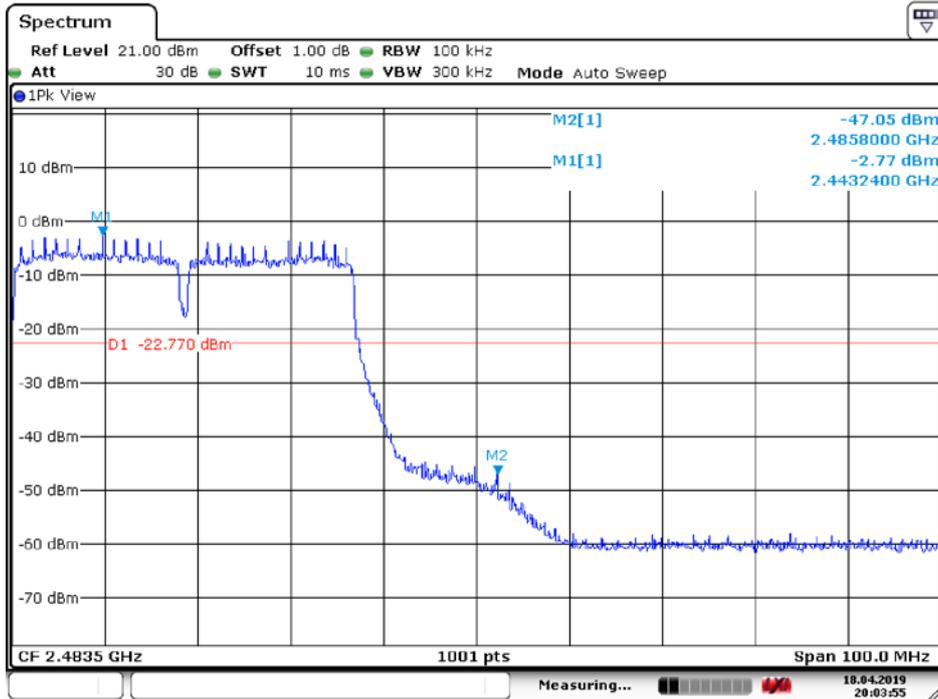
4.7.1.1.13 802.11N40_ MIMO_Lowest Channel



Date: 16.APR.2019 20:04:43



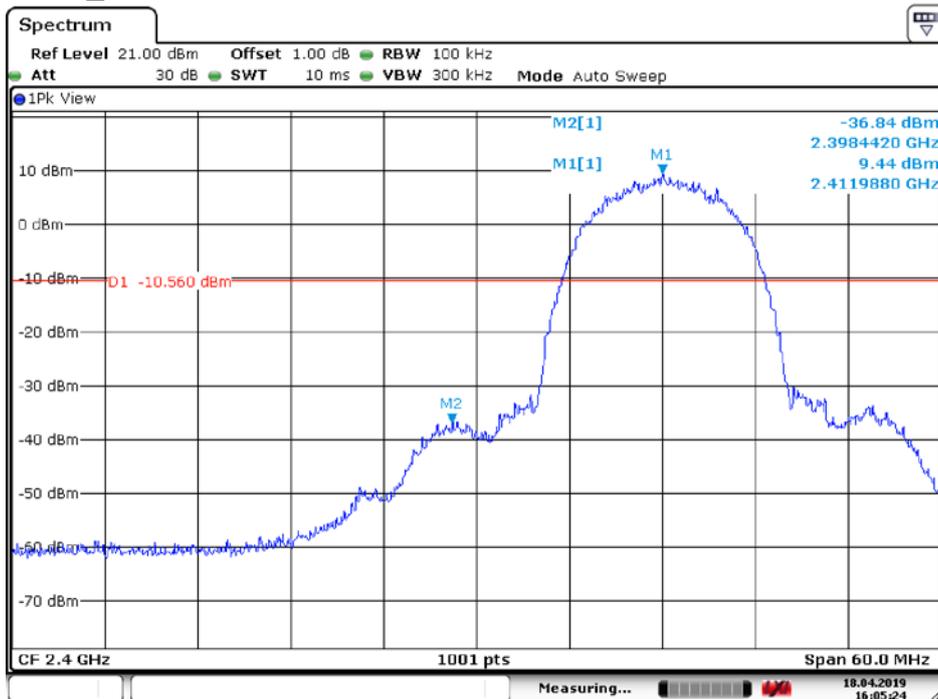
4.7.1.1.14 802.11 N40_ MIMO_ Highest Channel



Date: 18.APR.2019 20:03:55

4.7.1.2 ANT2

4.7.1.2.1 802.11B_ Lowest Channel



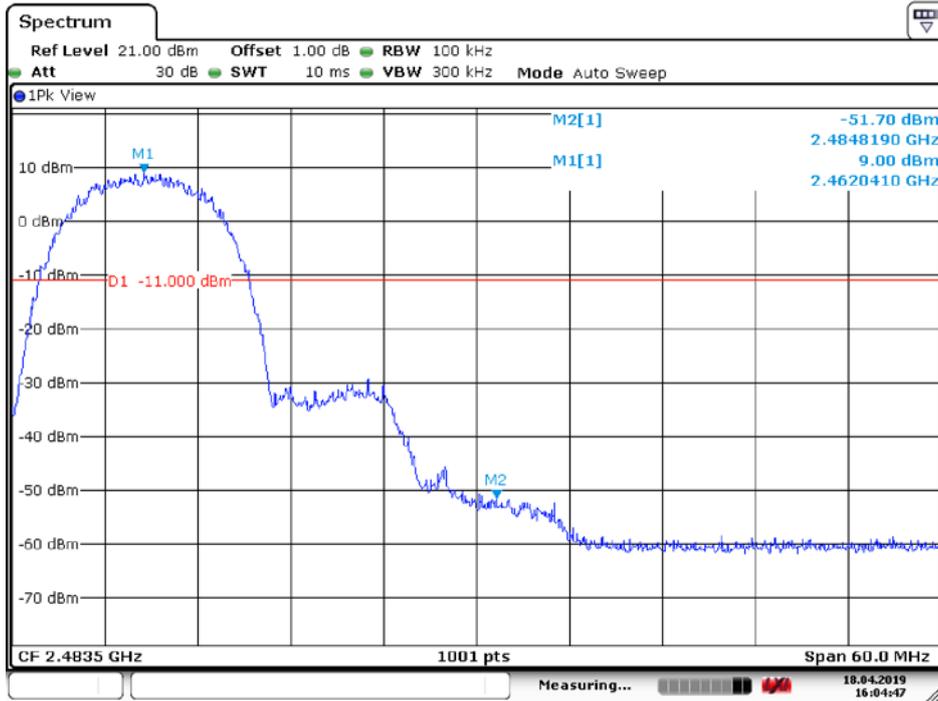
Date: 18.APR.2019 16:05:25



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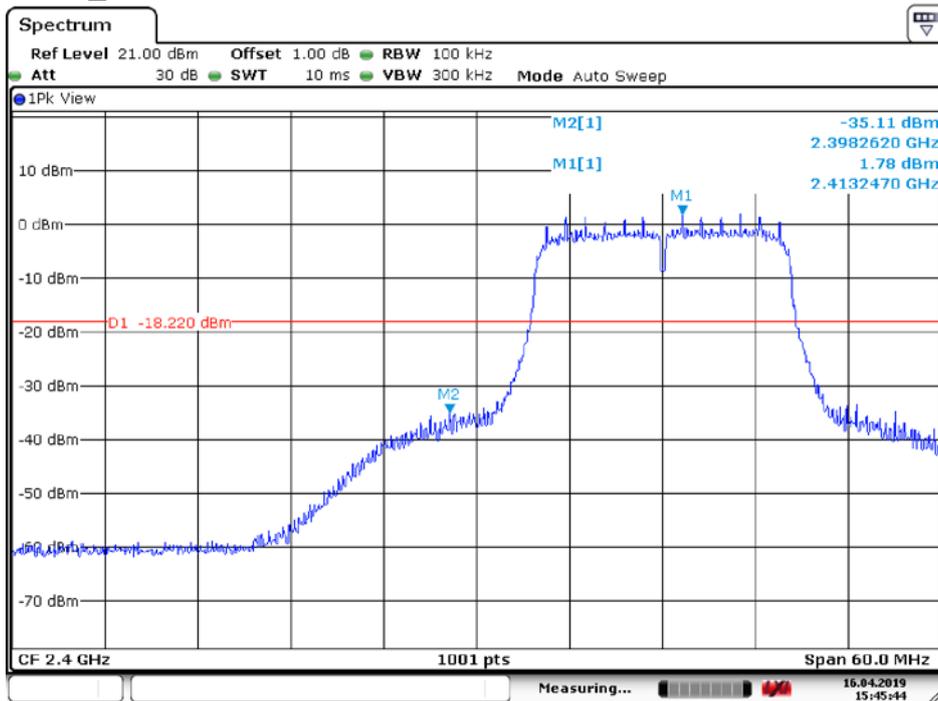
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4.7.1.2.2 802.11B_Highest Channel



Date: 18.APR.2019 16:04:47

4.7.1.2.3 802.11G_Lowest Channel



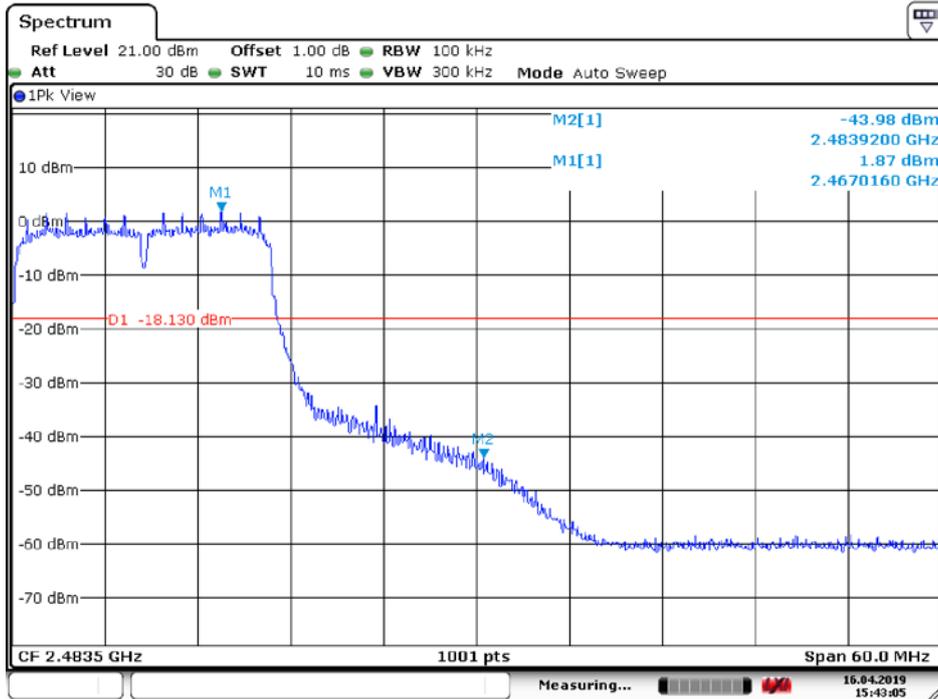
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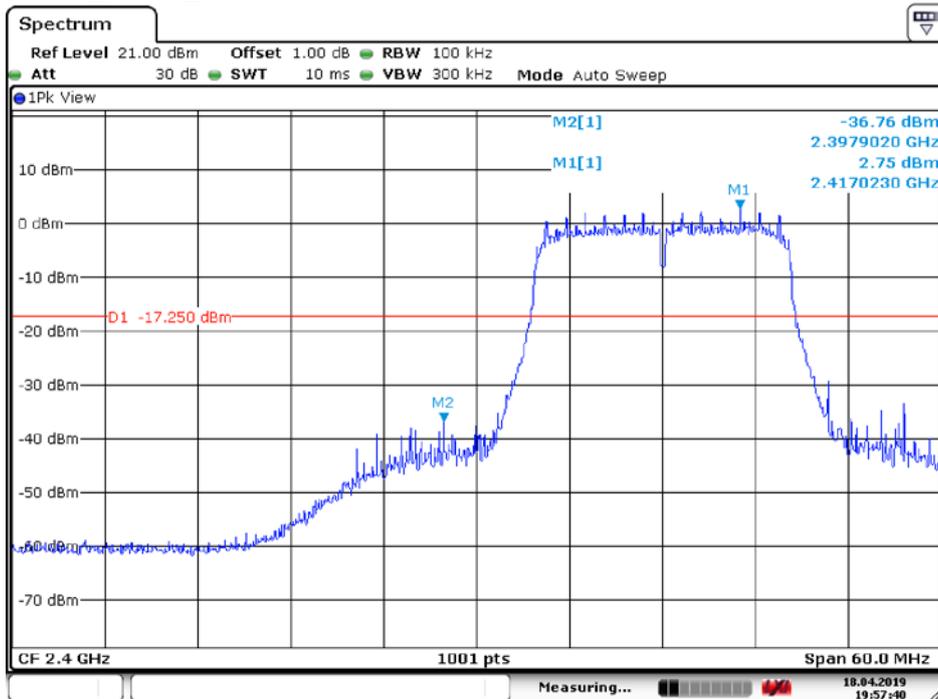
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4.7.1.2.4 802.11G_Highest Channel



Date: 16.APR.2019 15:43:06

4.7.1.2.5 802.11G_CDD_Lowest Channel

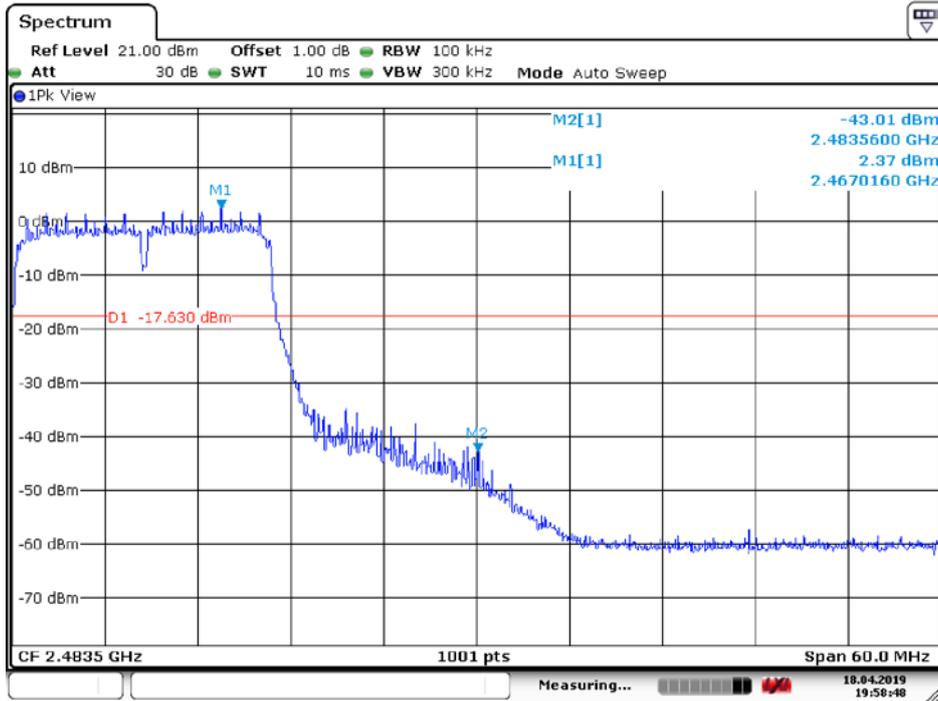


Date: 16.APR.2019 19:57:40



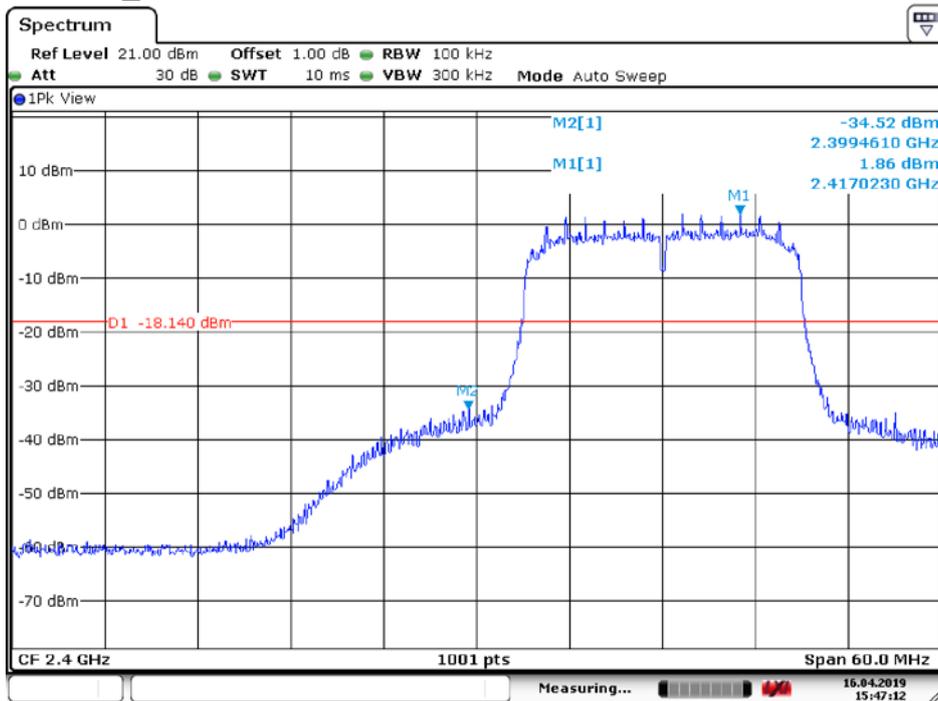
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4.7.1.2.6 802.11G_CDD_Highest Channel



Date: 18.APR.2019 19:58:48

4.7.1.2.7 802.11N20_Lowest Channel



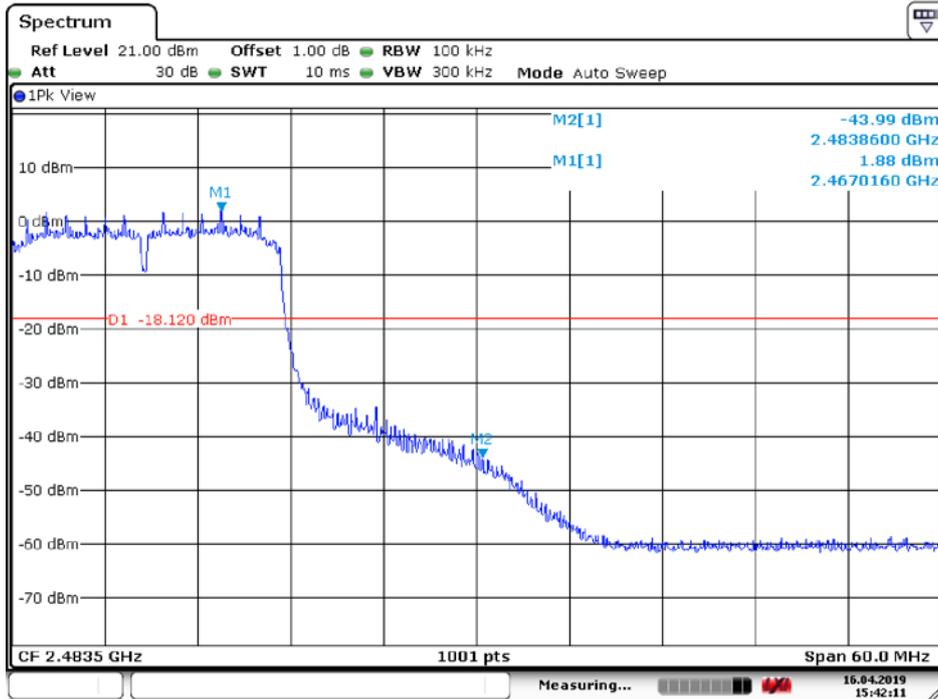
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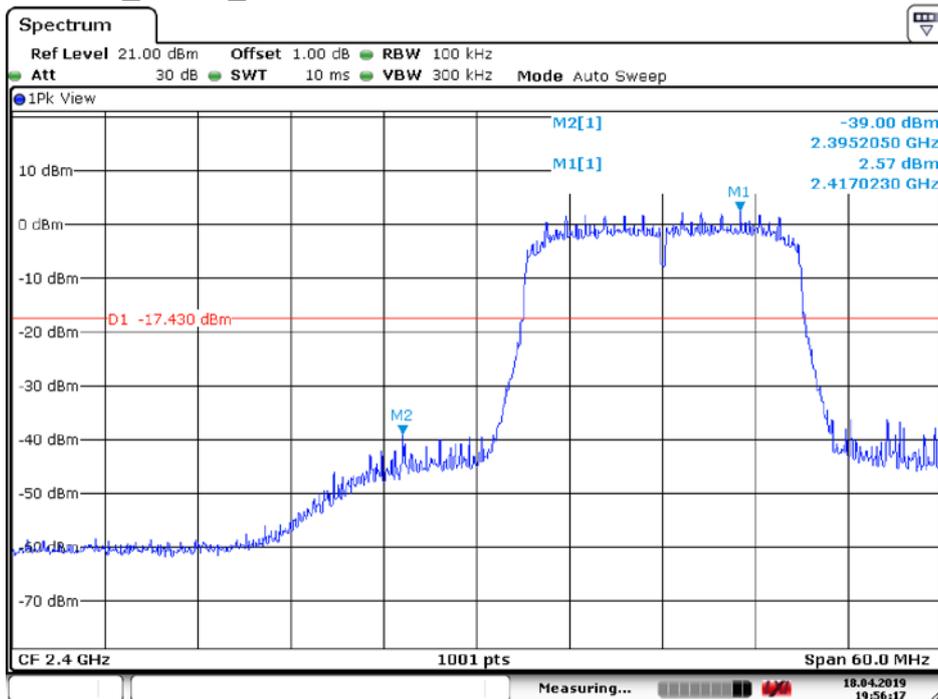
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4.7.1.2.8 802.11 N20_ Highest Channel



Date: 16.APR.2019 15:42:11

4.7.1.2.9 802.11N20_MIMO_Lowest Channel



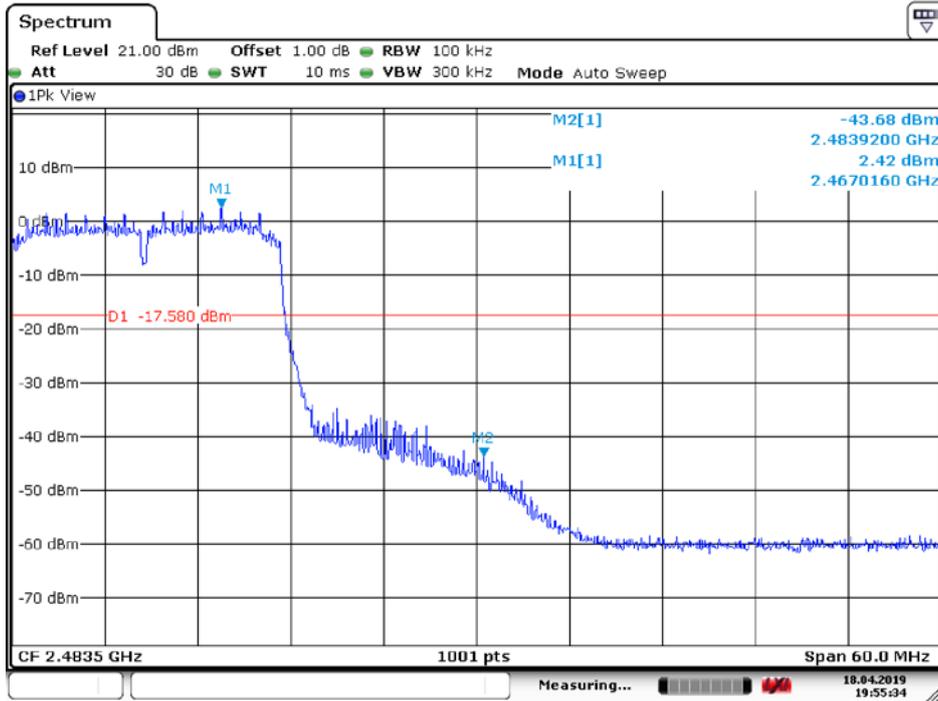
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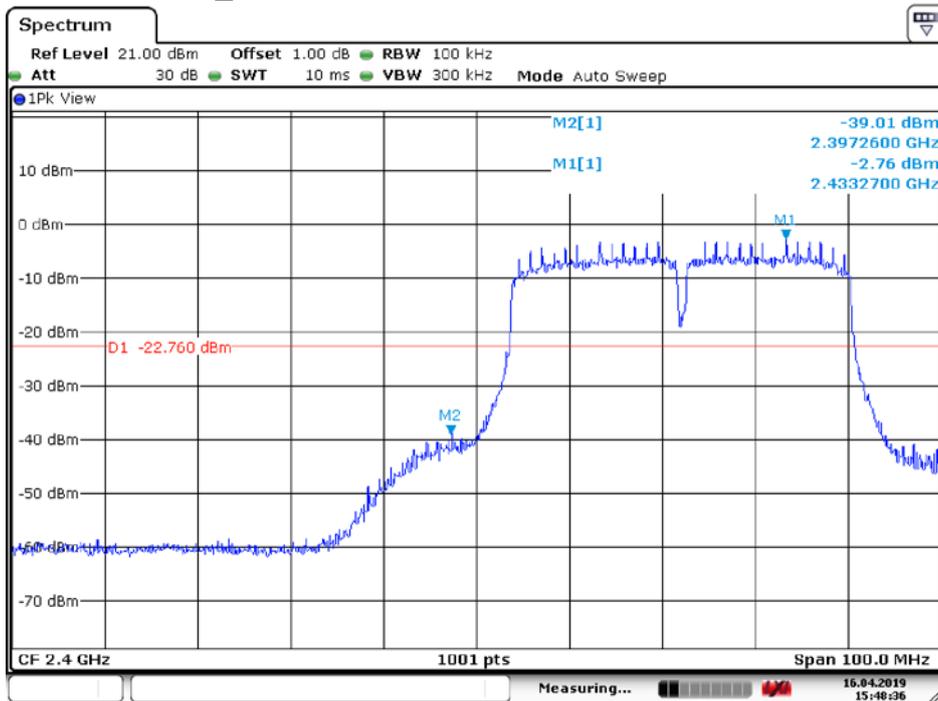
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4.7.1.2.10 802.11 N20_ MIMO_ Highest Channel



Date: 18.APR.2019 19:55:34

4.7.1.2.11 802.11N40_ Lowest Channel

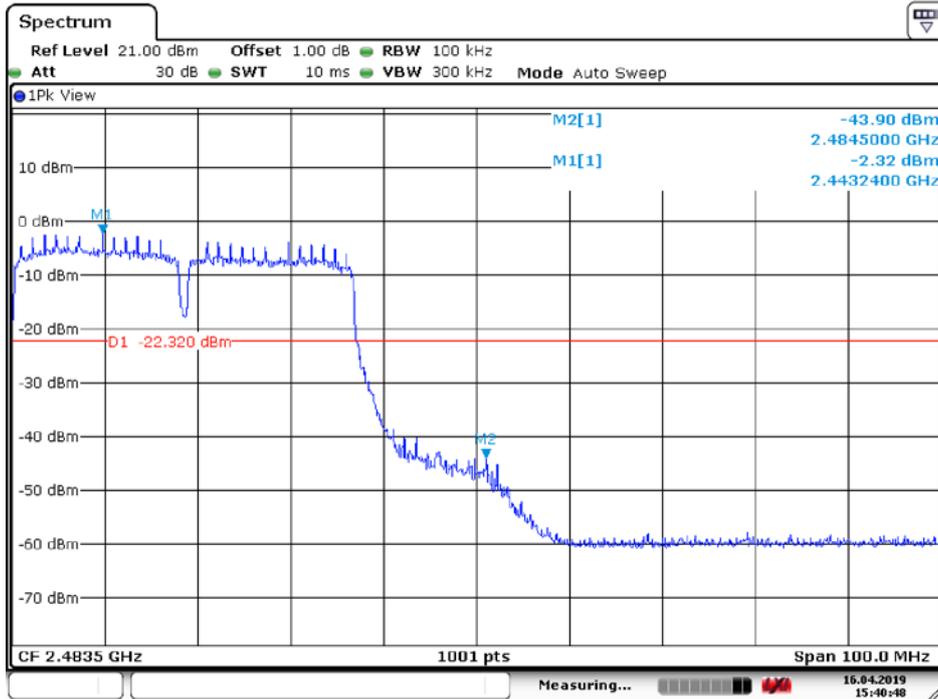


Date: 16.APR.2019 15:48:37



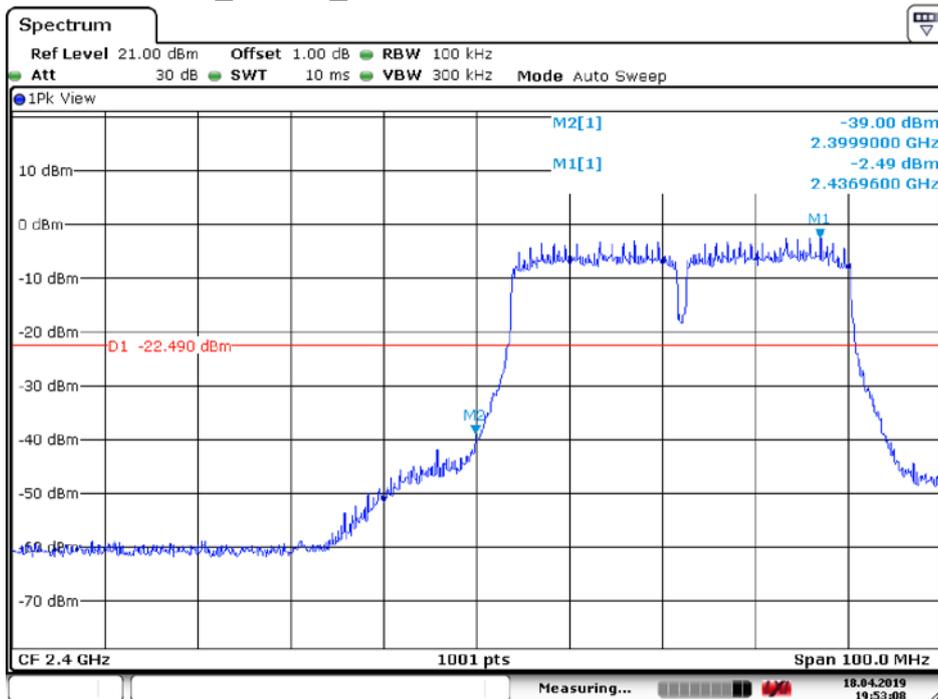
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4.7.1.2.12 802.11 N40_ Highest Channel



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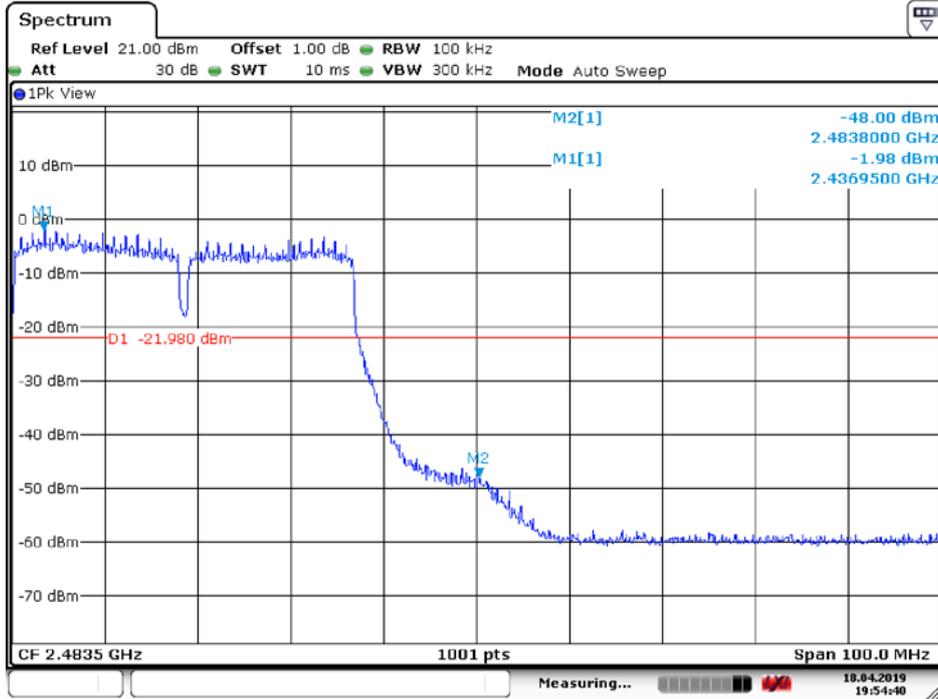
4.7.1.2.13 802.11N40_ MIMO_Lowest Channel



Date: 18.APR.2019 19:53:08



4.7.1.2.14 802.11 N40_ MIMO_ Highest Channel



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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 11Mbps of rate is the worst case of 802.11B; 6Mbps of rate is the worst case of 802.11G; 6.5Mbps of rate is the worst case of 802.11N(HT20); 13.5Mbps of rate is the worst case of 802.11N(HT40).
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



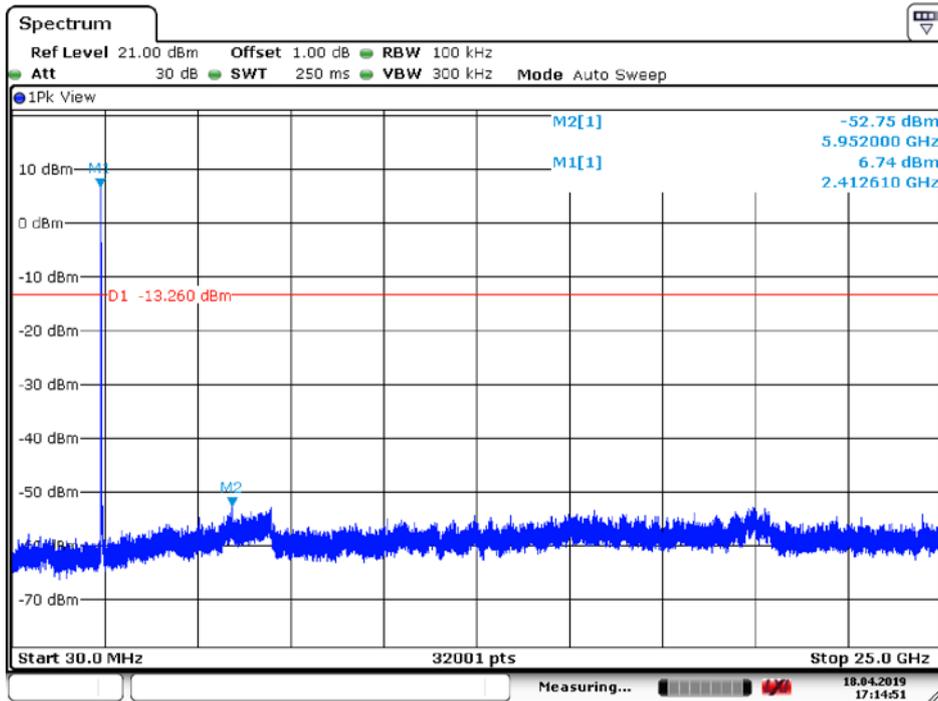
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4.8.1 Test plots

4.8.1.1 ANT1

4.8.1.1.1 802.11B_Lowest Channel



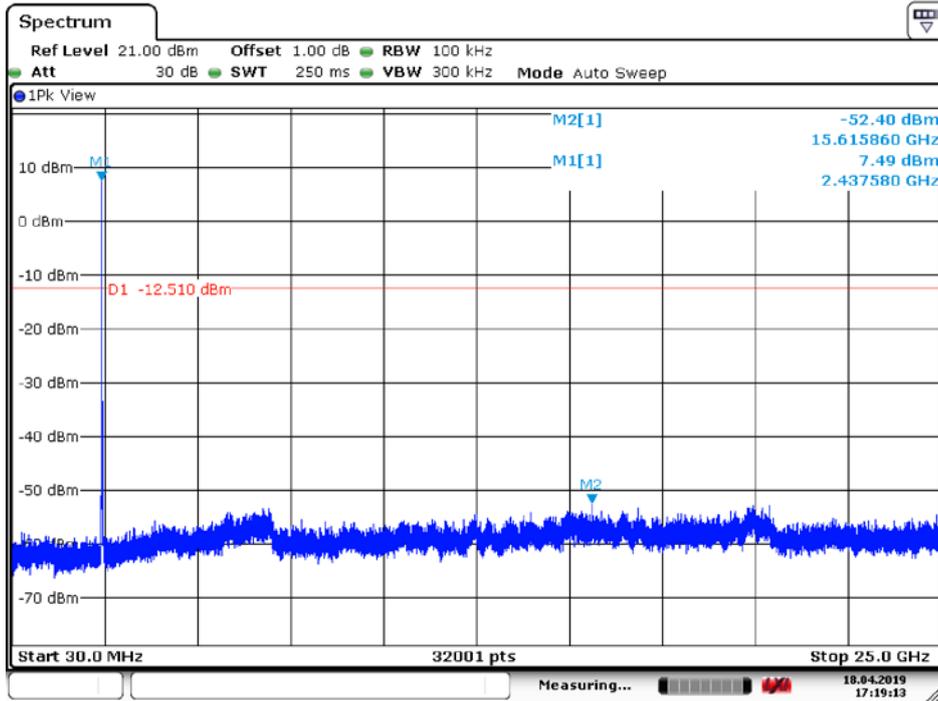
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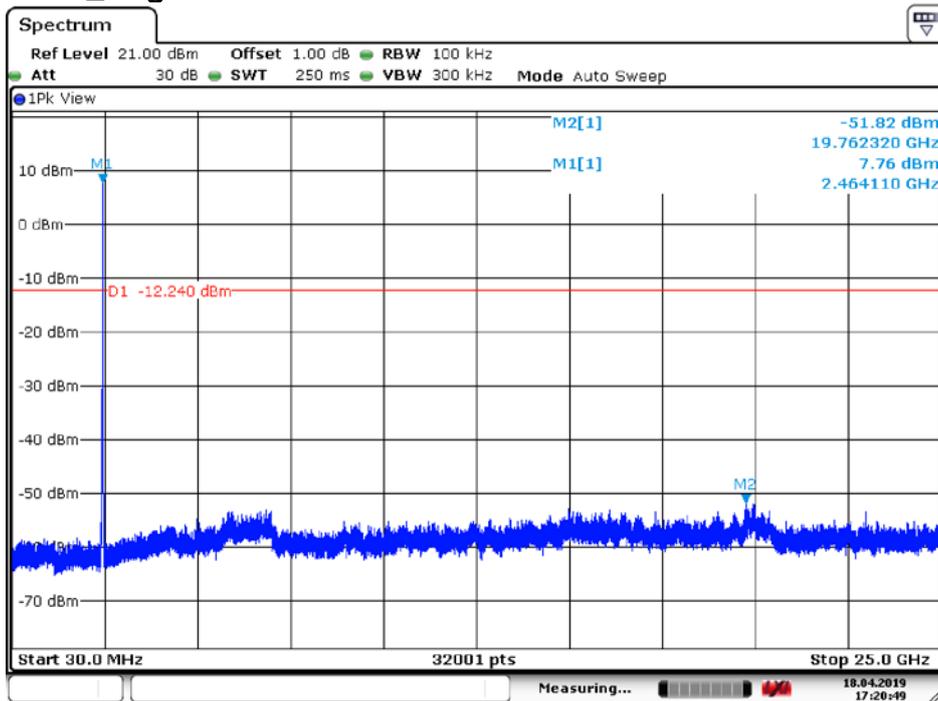
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4.8.1.1.2 802.11B_ Middle Channel



Date: 18.APR.2019 17:19:13

4.8.1.1.3 802.11B_ Highest Channel



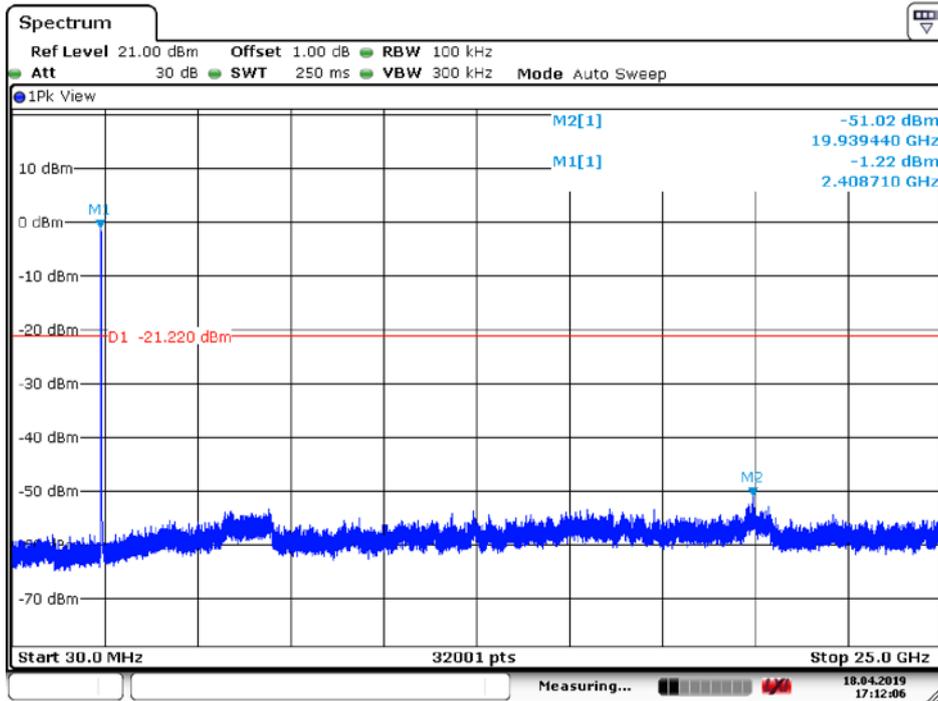
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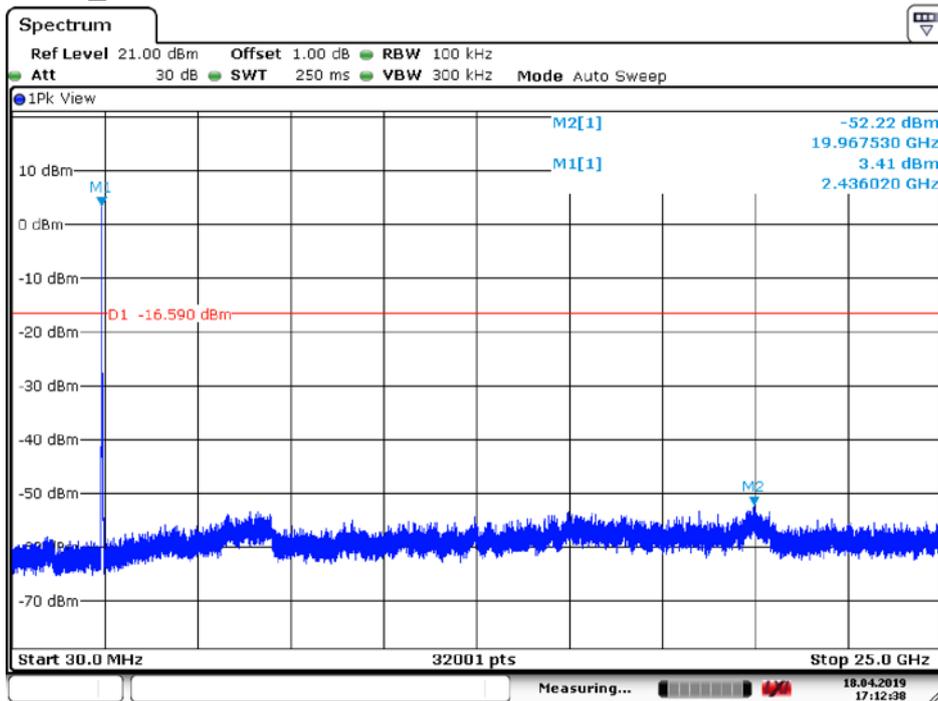
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4.8.1.1.4 802.11G_Lowest Channel



Date: 18.APR.2019 17:12:06

4.8.1.1.5 802.11G_Middle Channel



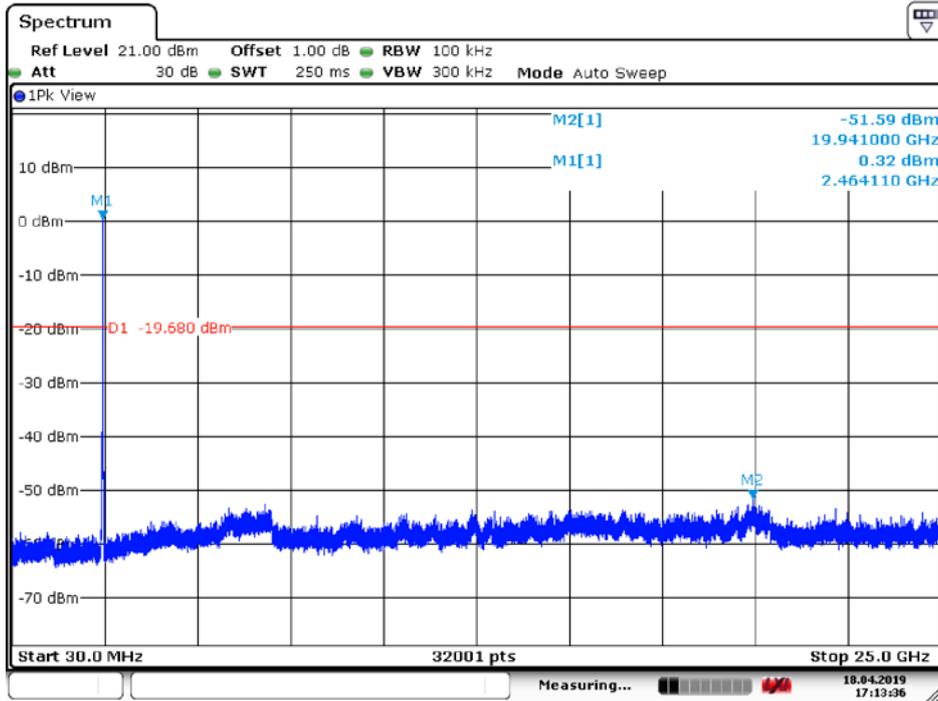
Date: 18.APR.2019 17:12:39



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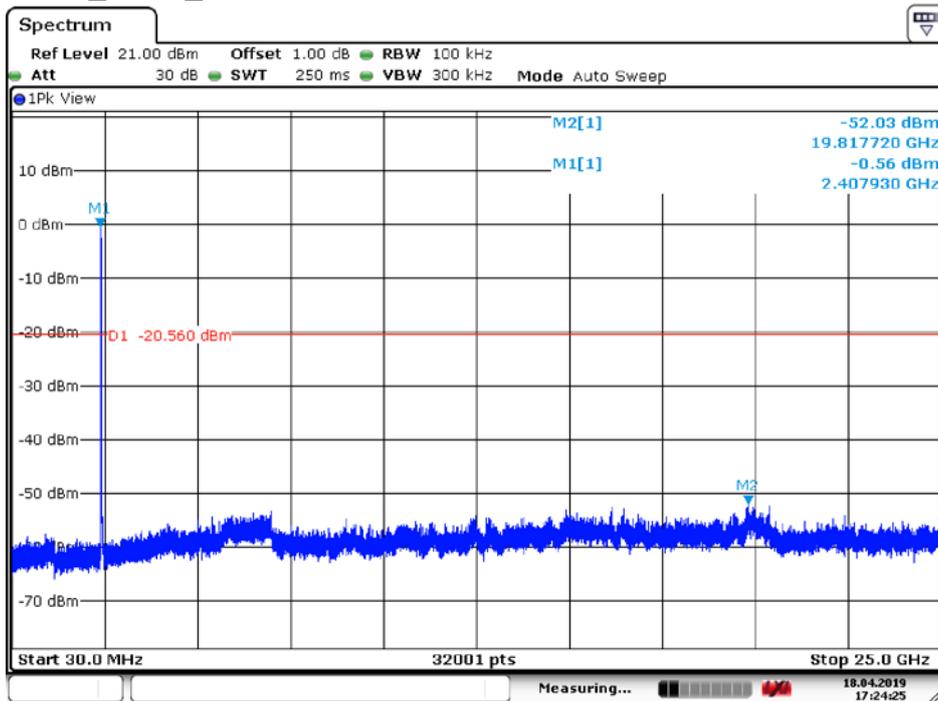
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4.8.1.1.6 802.11G_Highest Channel



Date: 18.APR.2019 17:13:36

4.8.1.1.7 802.11G_CDD_Lowest Channel

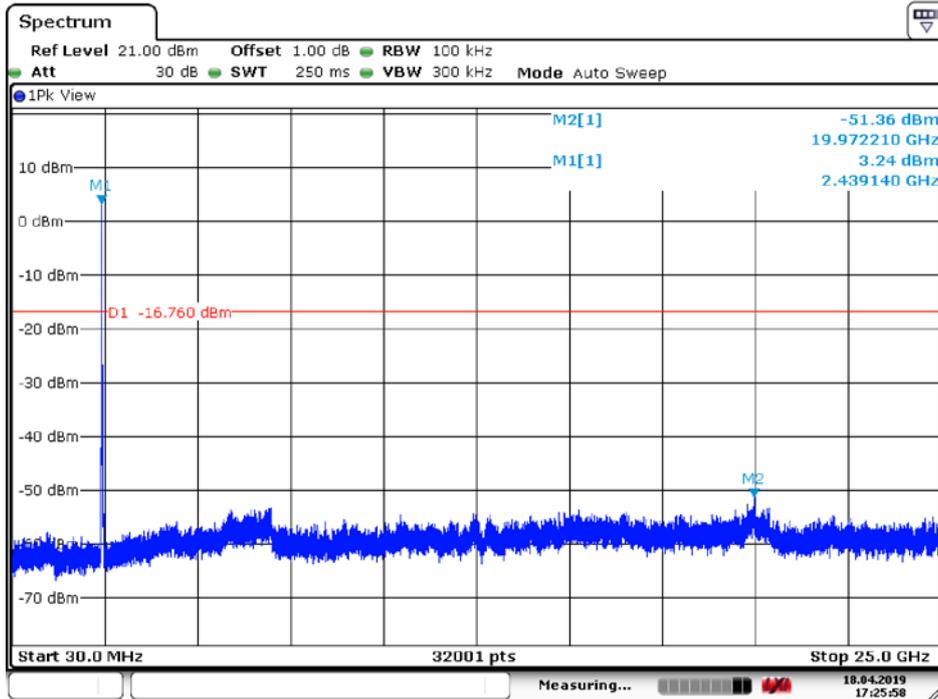


Date: 18.APR.2019 17:24:25



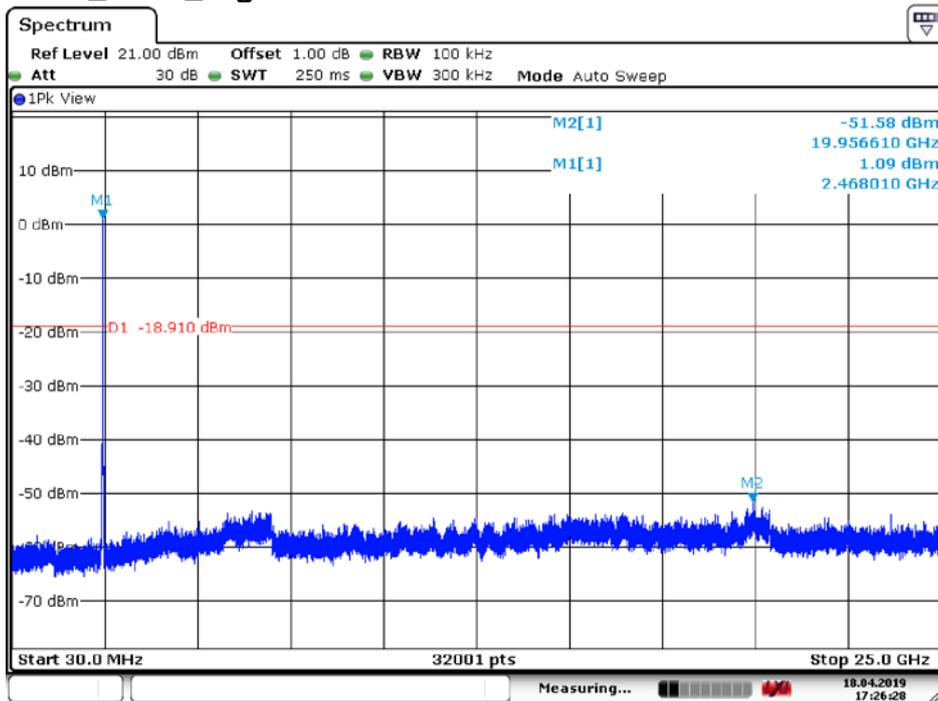
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4.8.1.1.8 802.11G_CDD_Middle Channel



Date: 18.APR.2019 17:25:59

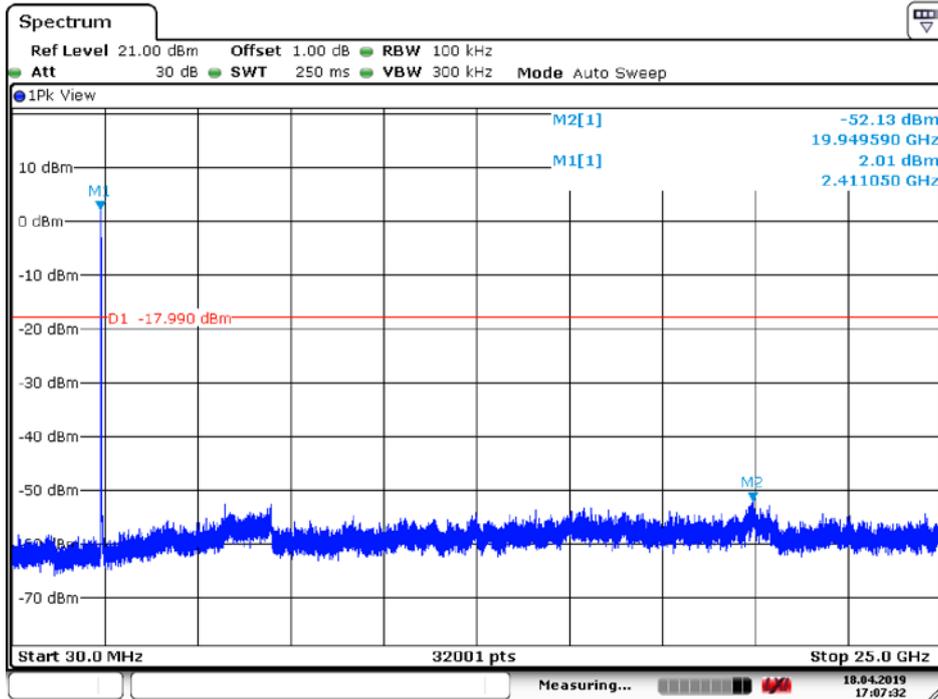
4.8.1.1.9 802.11G_CDD_Highest Channel



Date: 18.APR.2019 17:26:28

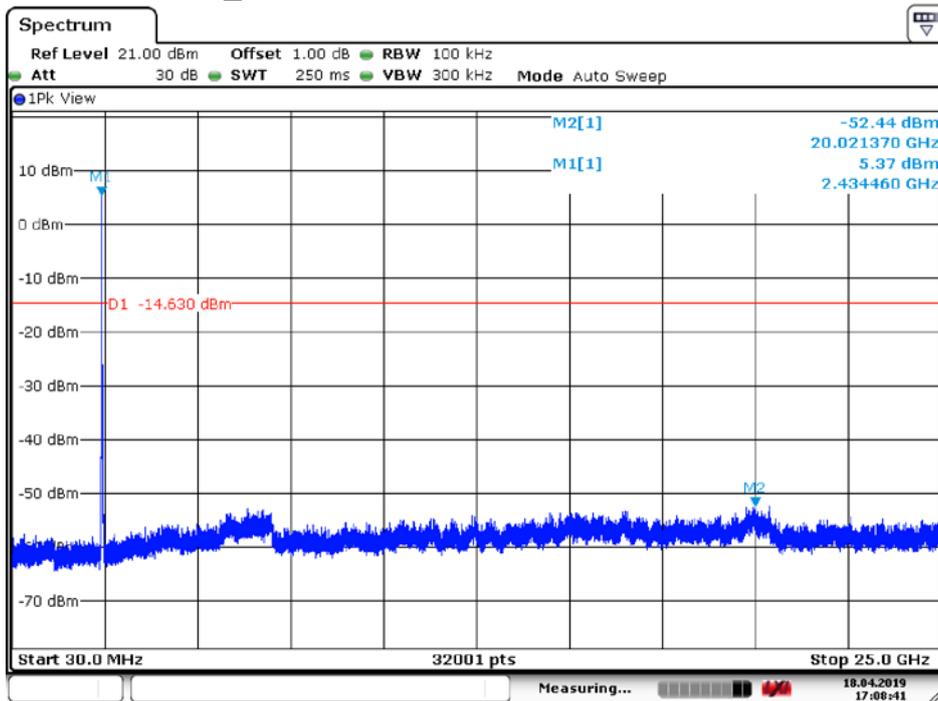


4.8.1.1.10 802.11N20_Lowest Channel



Date: 18.APR.2019 17:07:33

4.8.1.1.11 802.11 N20_Middle Channel



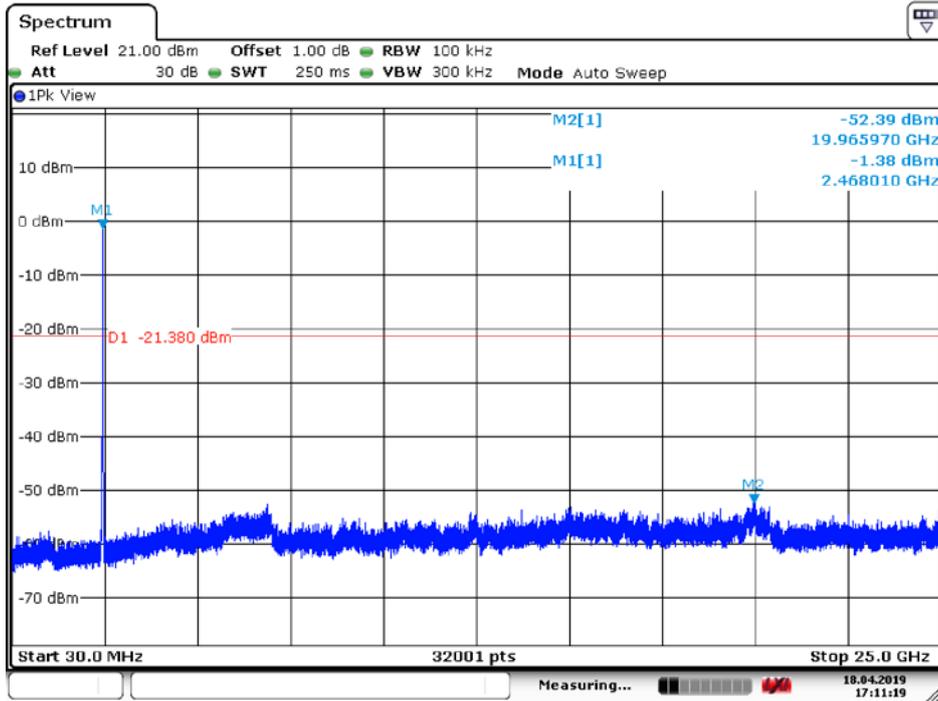
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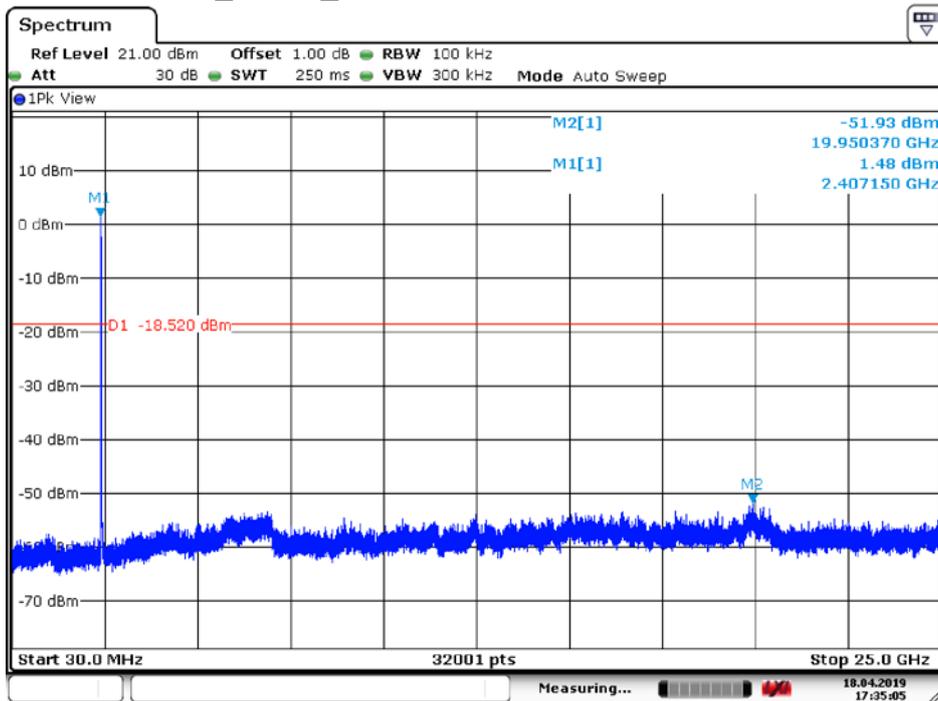
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4.8.1.1.12 802.11 N20_ Highest Channel



Date: 18.APR.2019 17:11:19

4.8.1.1.13 802.11N20_MIMO_Lowest Channel



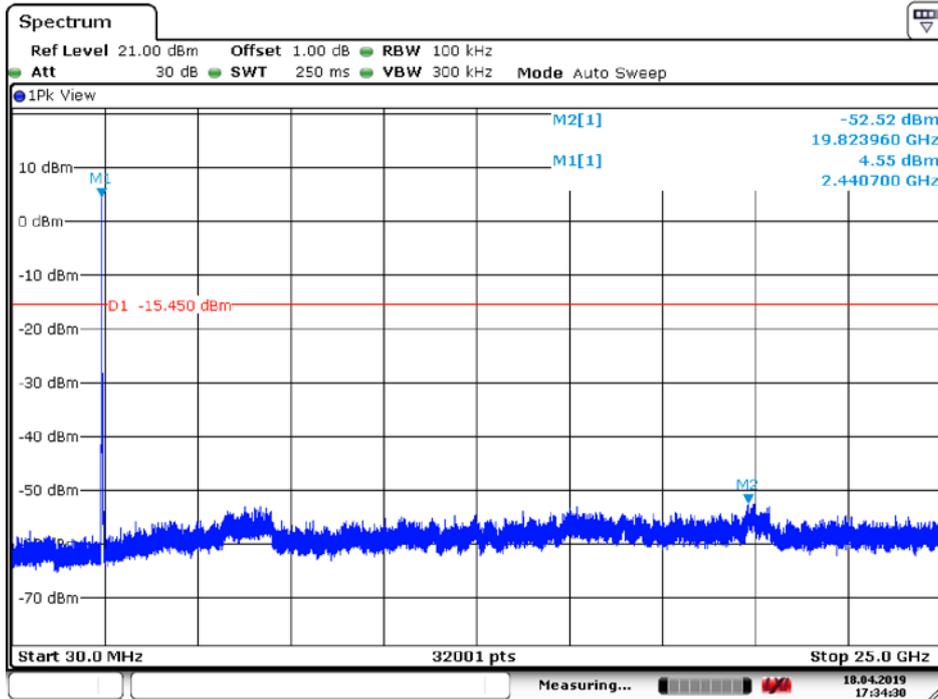
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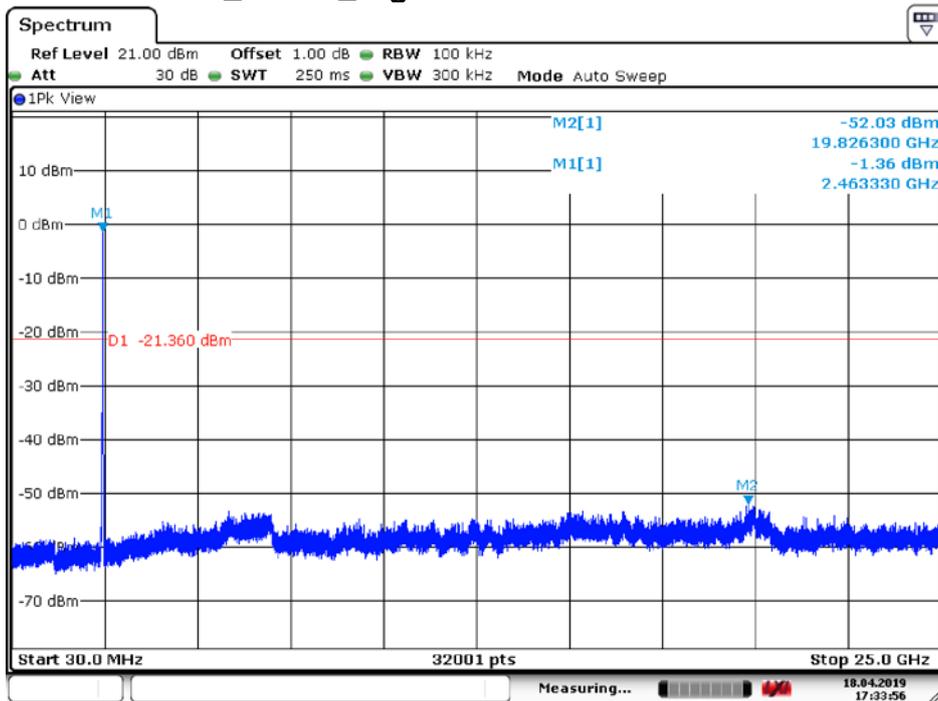
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4.8.1.1.14 802.11 N20_ MIMO_ Middle Channel



Date: 18.APR.2019 17:34:31

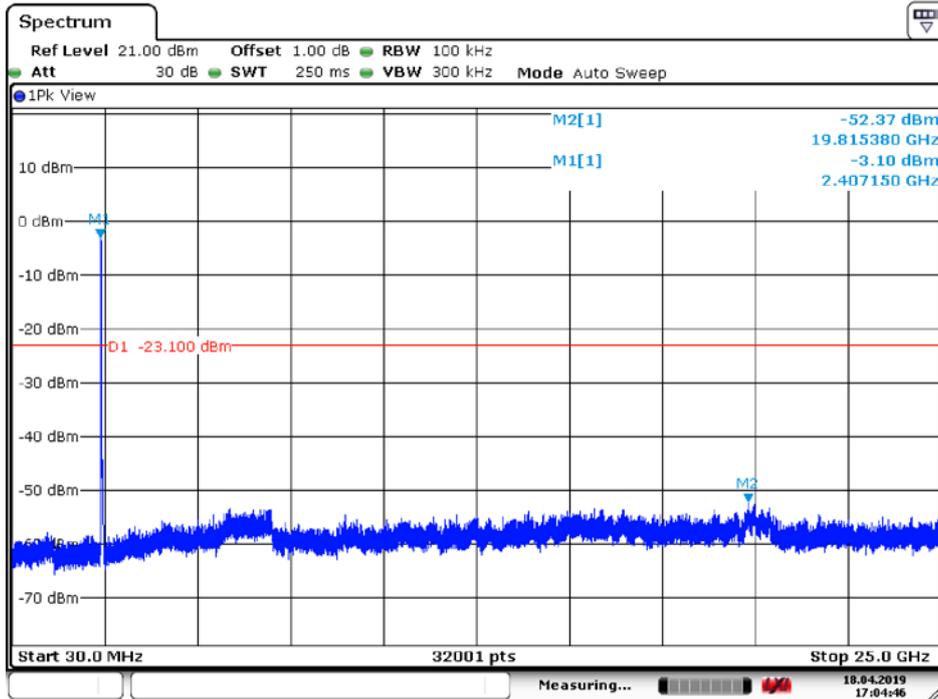
4.8.1.1.15 802.11 N20_ MIMO_ Highest Channel



Date: 18.APR.2019 17:33:56

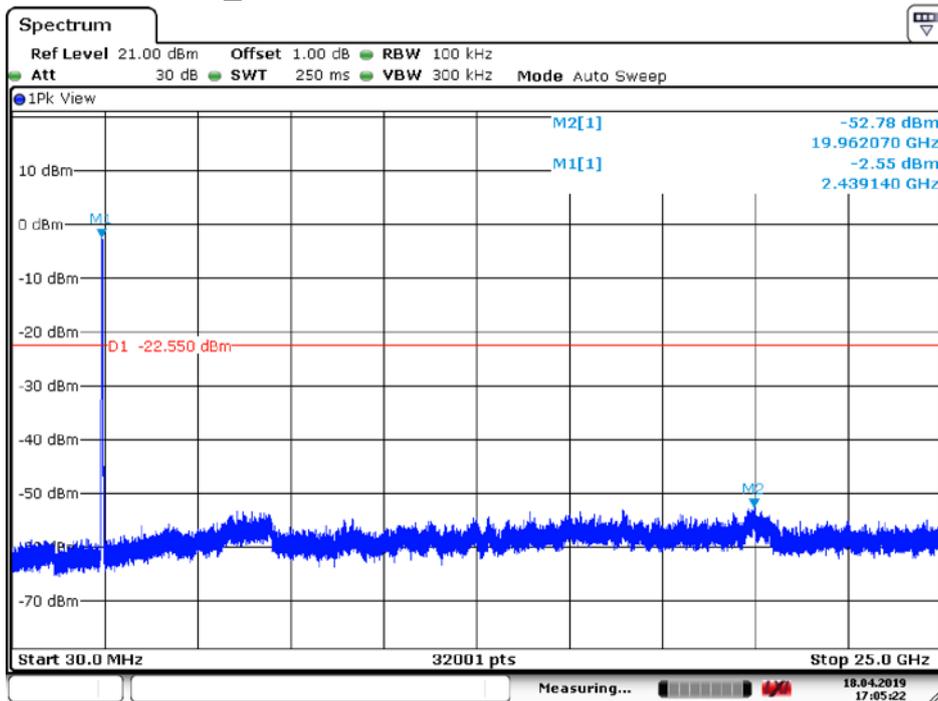


4.8.1.1.16 802.11N40_Lowest Channel



Date: 18.APR.2019 17:04:46

4.8.1.1.17 802.11 N40_Middle Channel

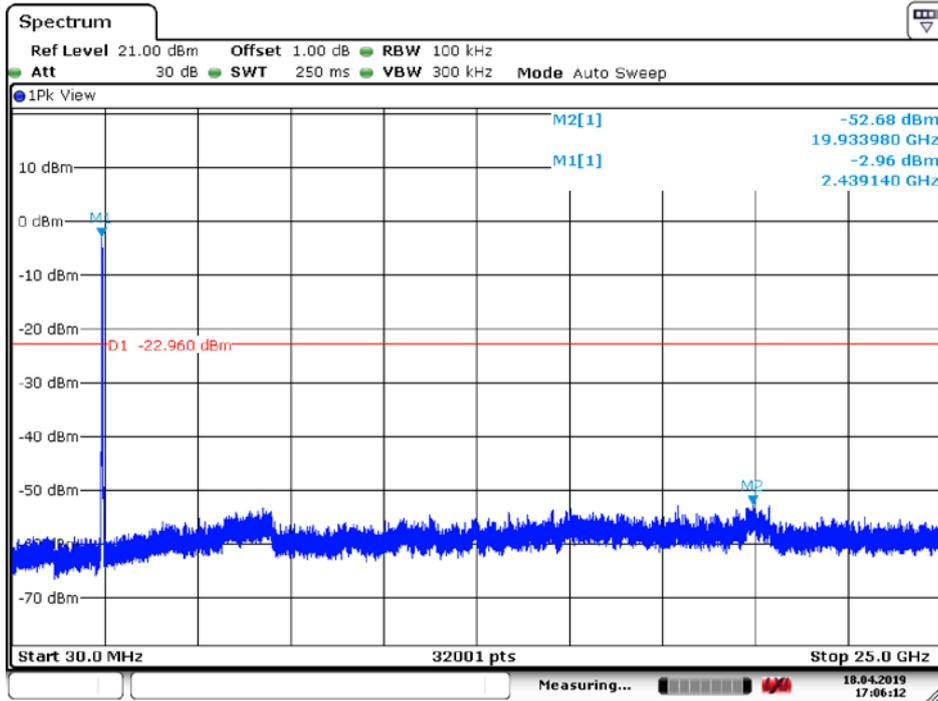


Date: 18.APR.2019 17:05:23



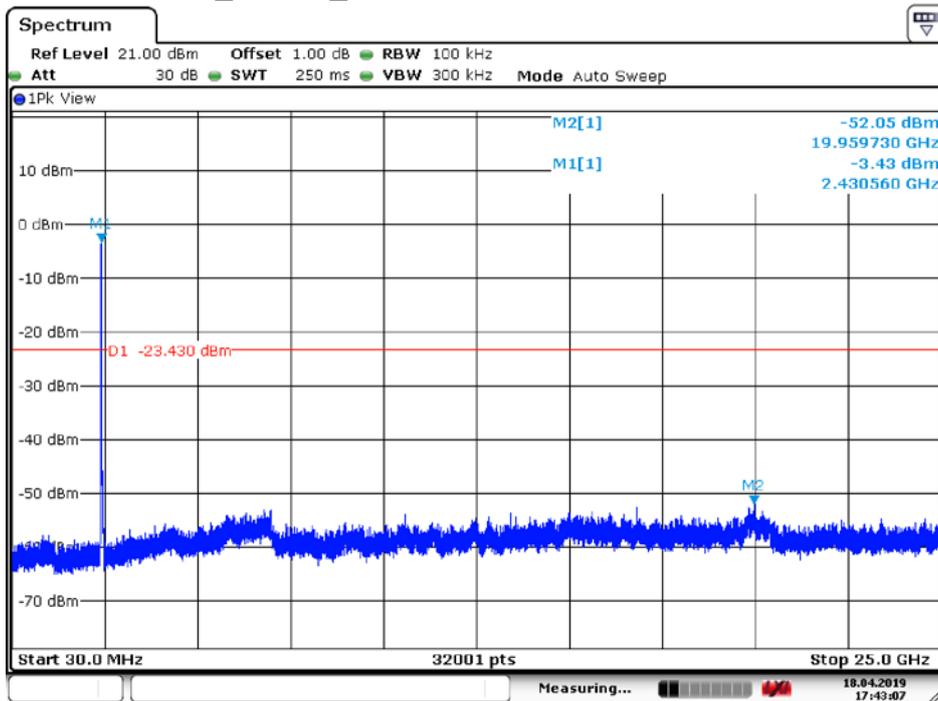
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4.8.1.1.18 802.11 N40_ Highest Channel



Date: 18.APR.2019 17:06:12

4.8.1.1.19 802.11N40_ MIMO_Lowest Channel

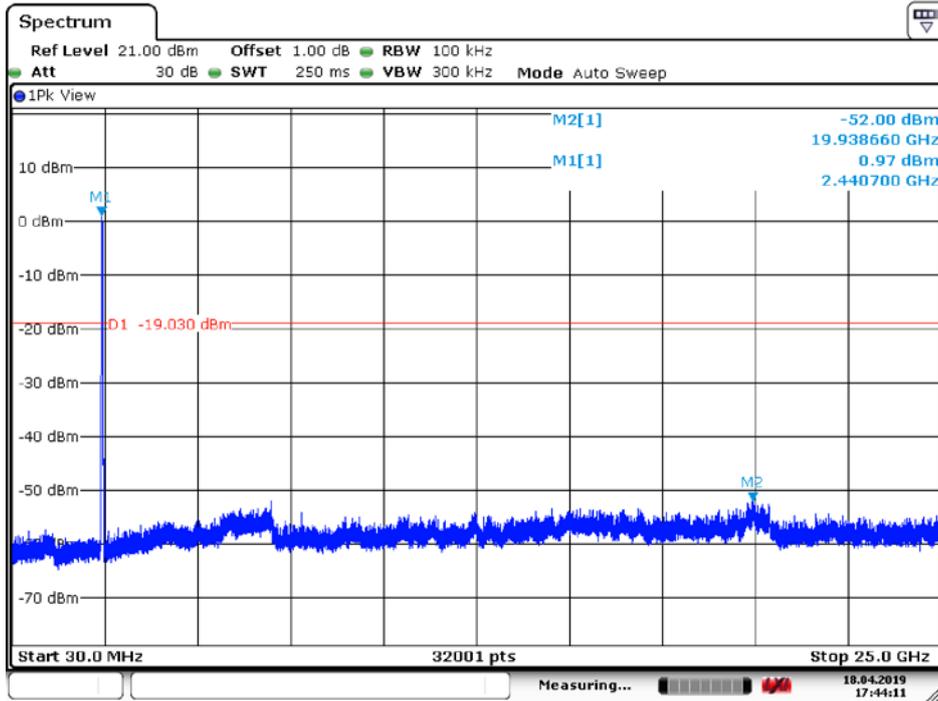


Date: 18.APR.2019 17:43:08



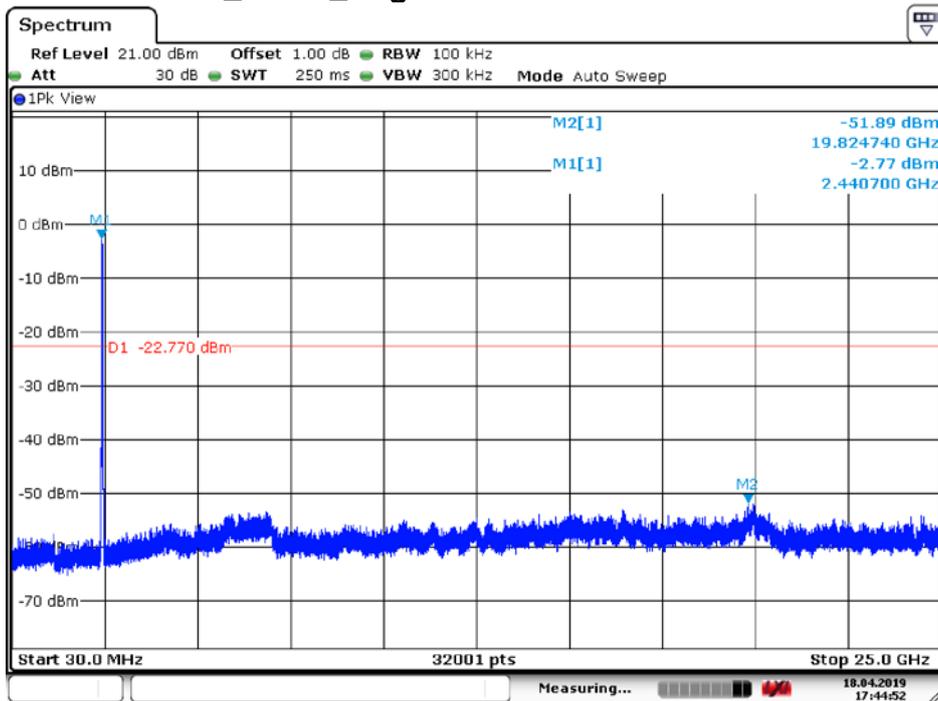
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4.8.1.1.20 802.11 N40_ MIMO_ Middle Channel



Date: 18.APR.2019 17:44:11

4.8.1.1.21 802.11 N40_ MIMO_ Highest Channel



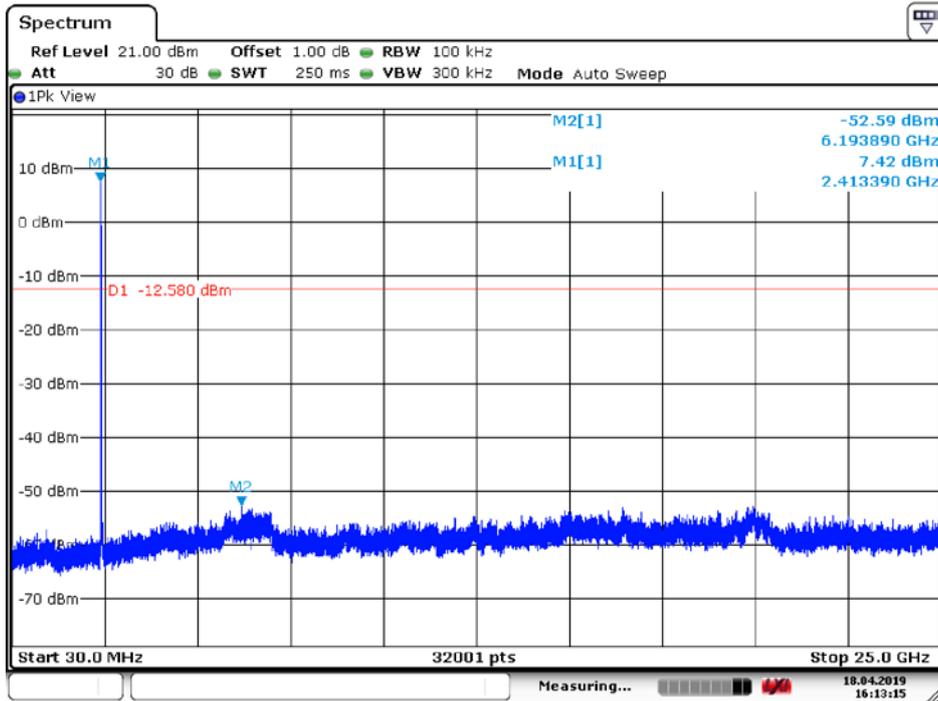
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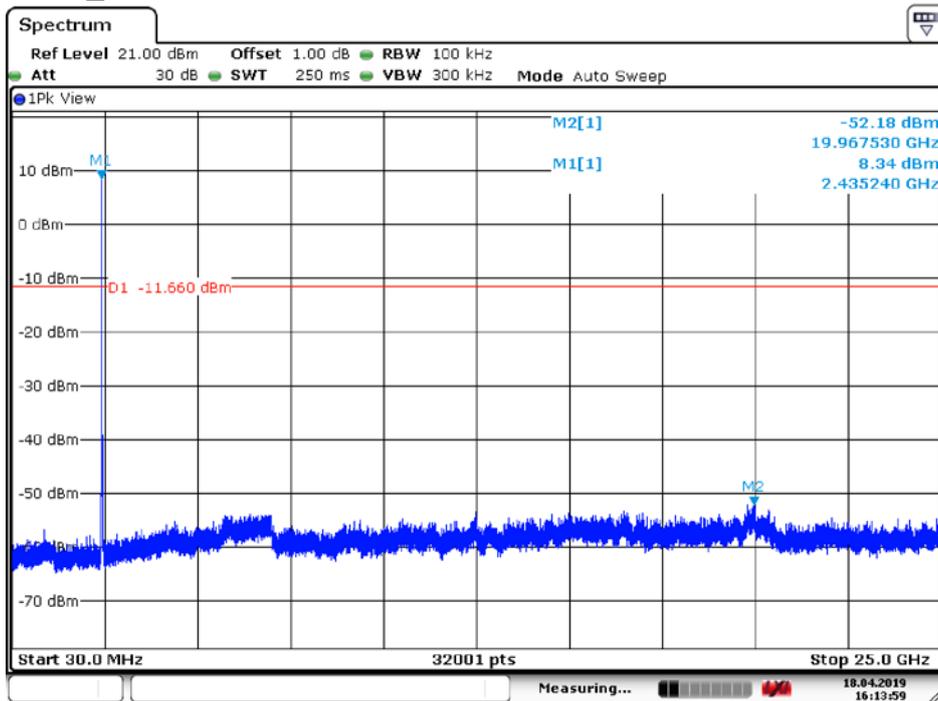
4.8.1.2 ANT2

4.8.1.2.1 802.11B_Lowest Channel



Date: 18.APR.2019 16:13:15

4.8.1.2.2 802.11B_Middle Channel

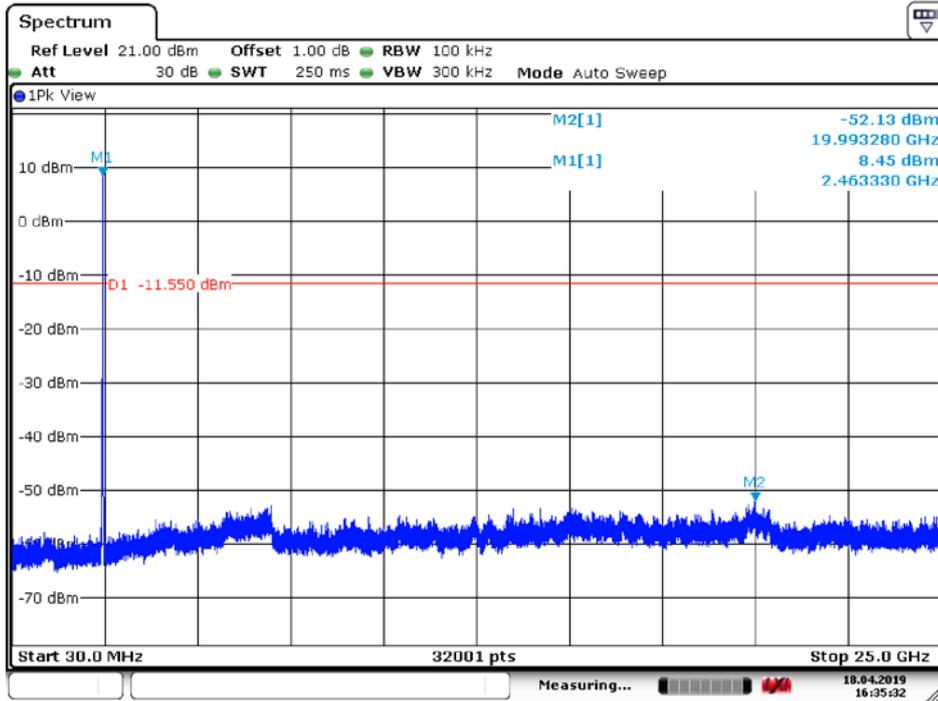


Date: 18.APR.2019 16:14:00

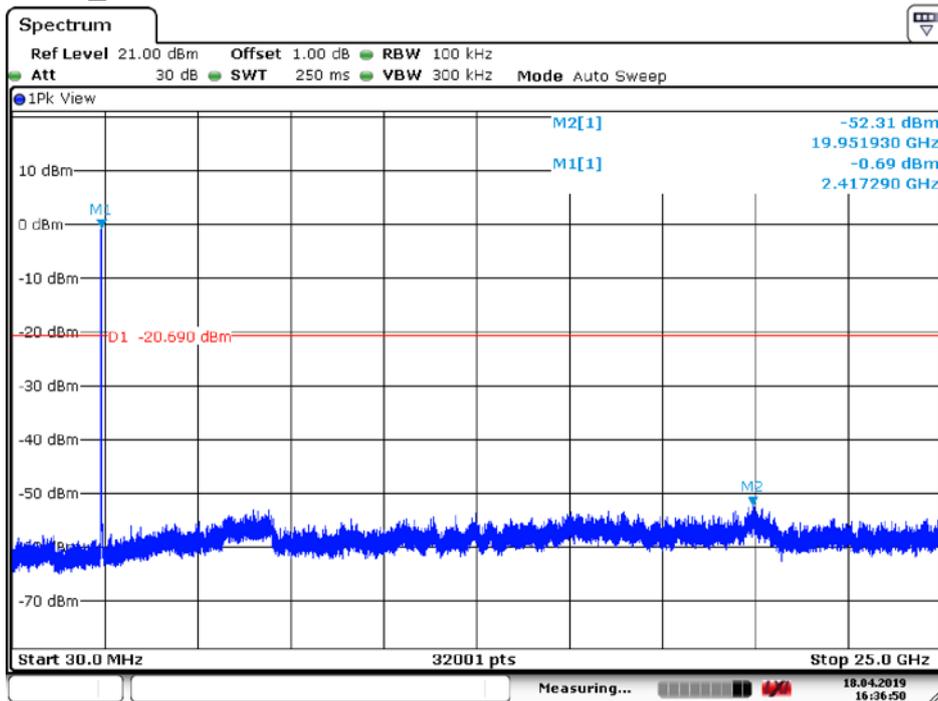


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4.8.1.2.3 802.11B_Highest Channel



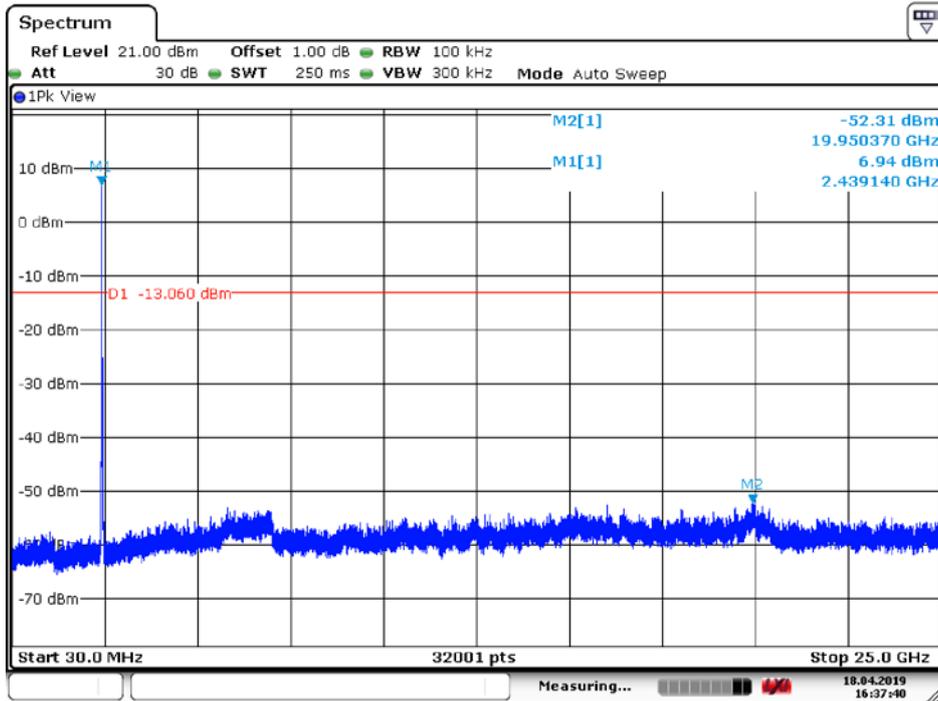
4.8.1.2.4 802.11G_Lowest Channel



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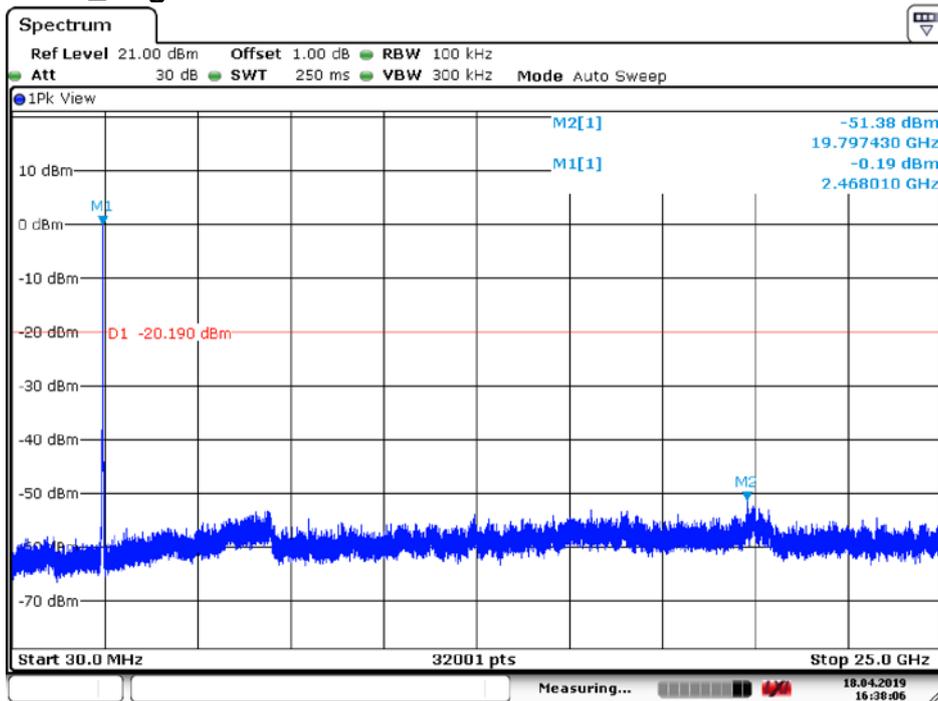
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4.8.1.2.5 802.11G_Middle Channel



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4.8.1.2.6 802.11G_Highest Channel

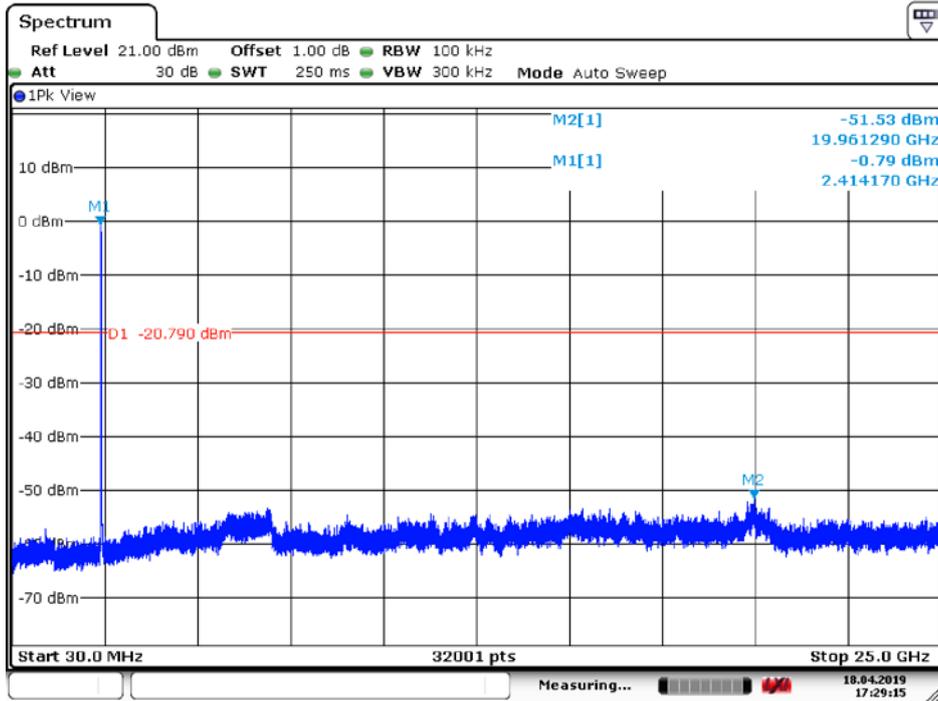


Date: 18.APR.2019 16:38:07



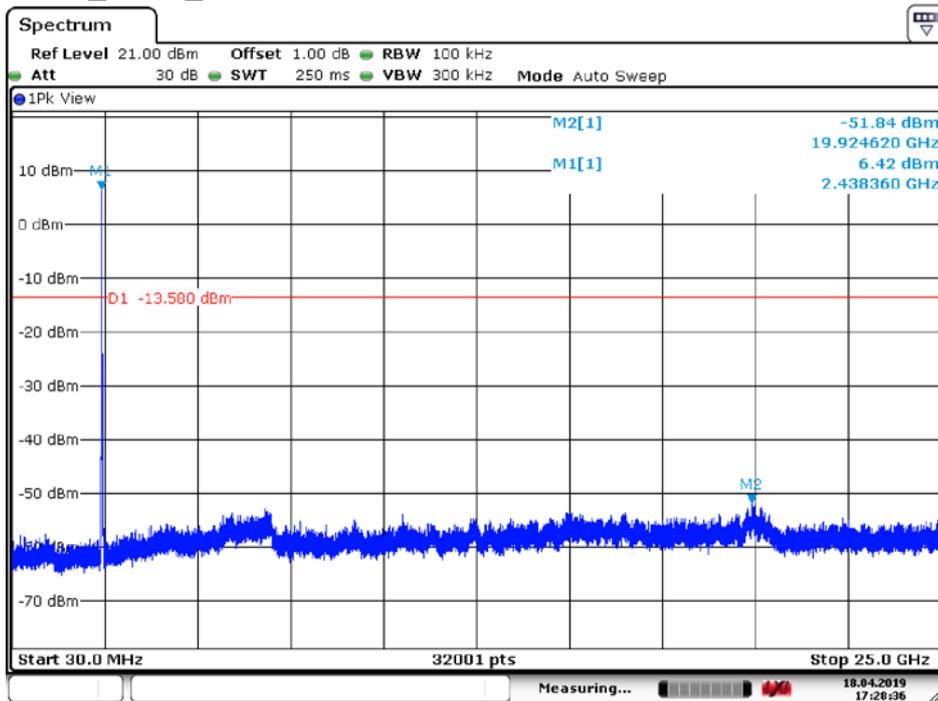
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4.8.1.2.7 802.11G_CDD_Lowest Channel



Date: 18.APR.2019 17:29:16

4.8.1.2.8 802.11G_CDD_Middle Channel



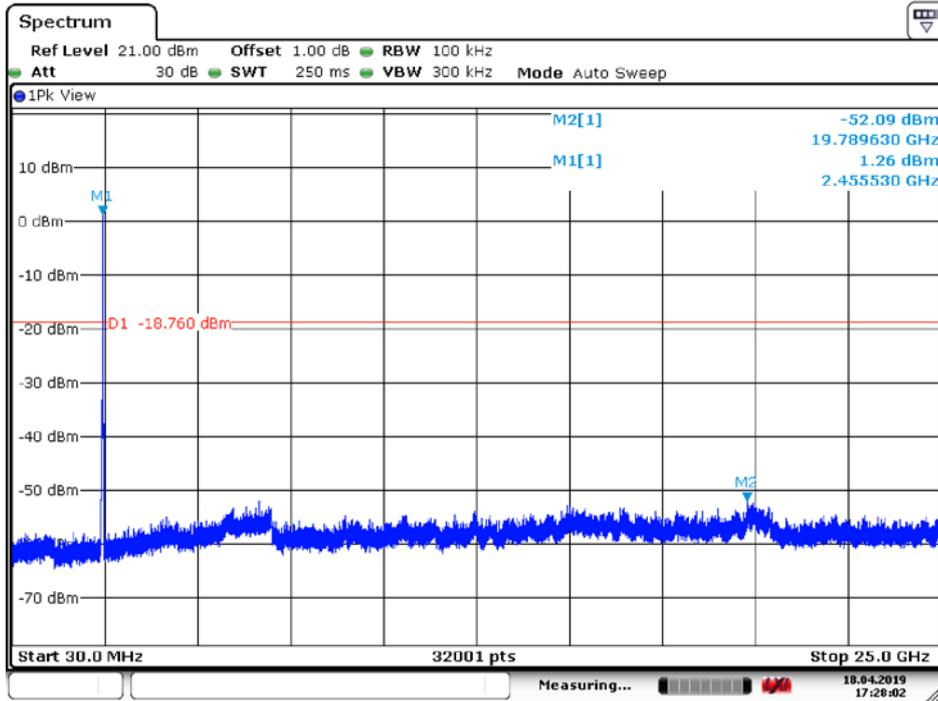
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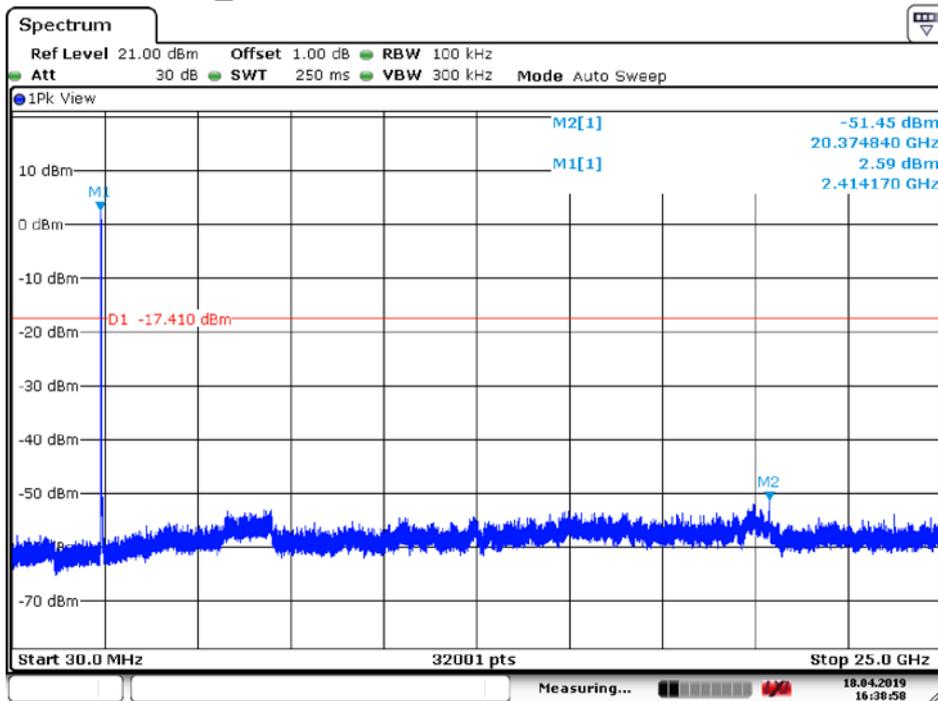
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4.8.1.2.9 802.11G_CDD_Highest Channel



Date: 18.APR.2019 17:28:02

4.8.1.2.10 802.11N20_Lowest Channel



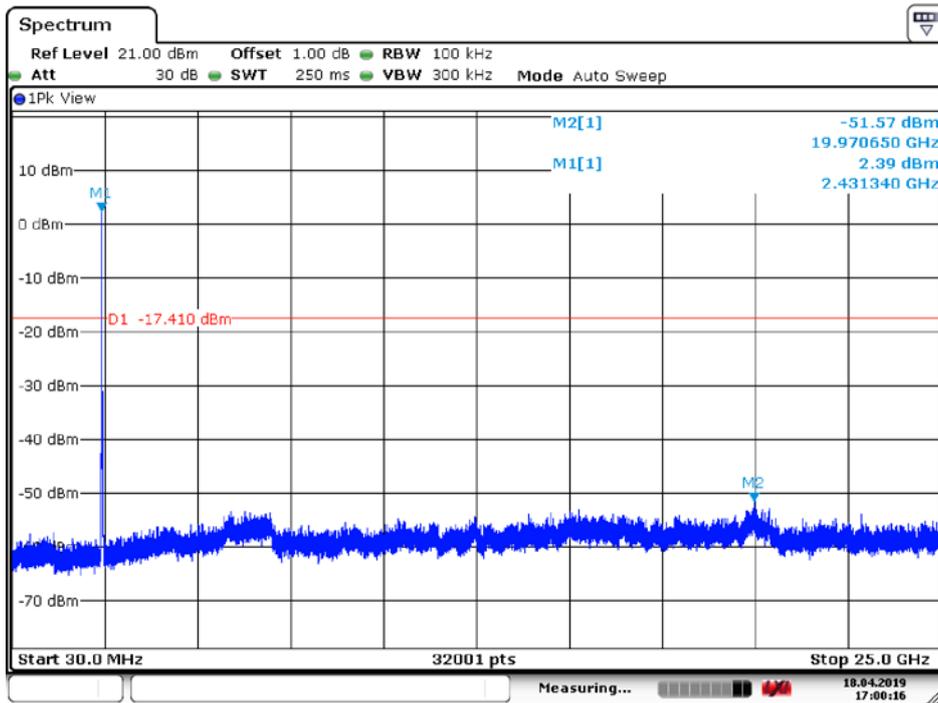
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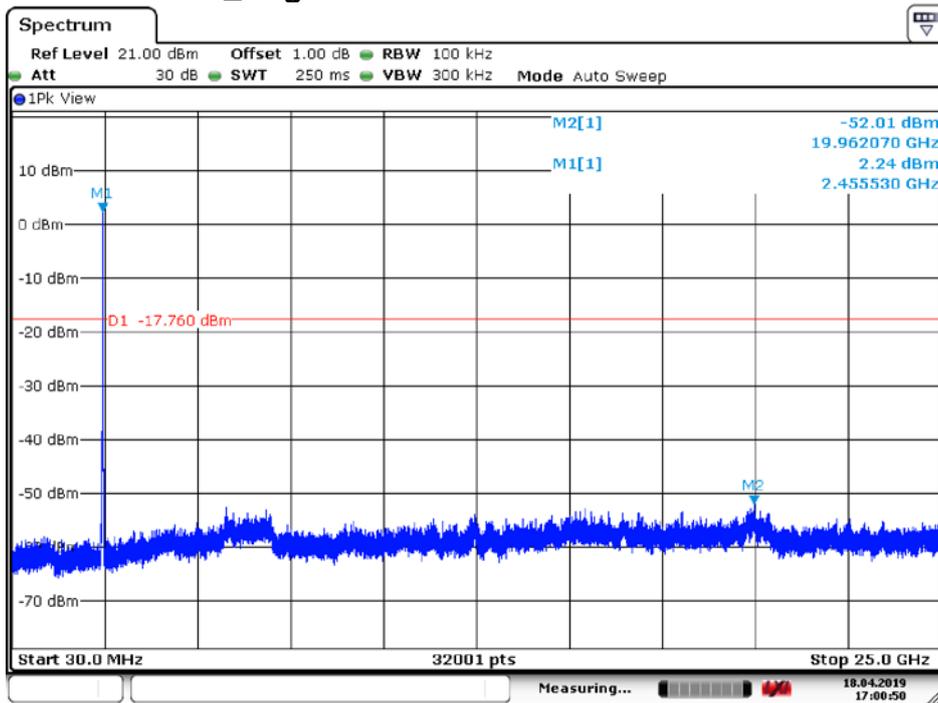
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4.8.1.2.11 802.11 N20_ Middle Channel



Date: 18.APR.2019 17:00:17

4.8.1.2.12 802.11 N20_ Highest Channel

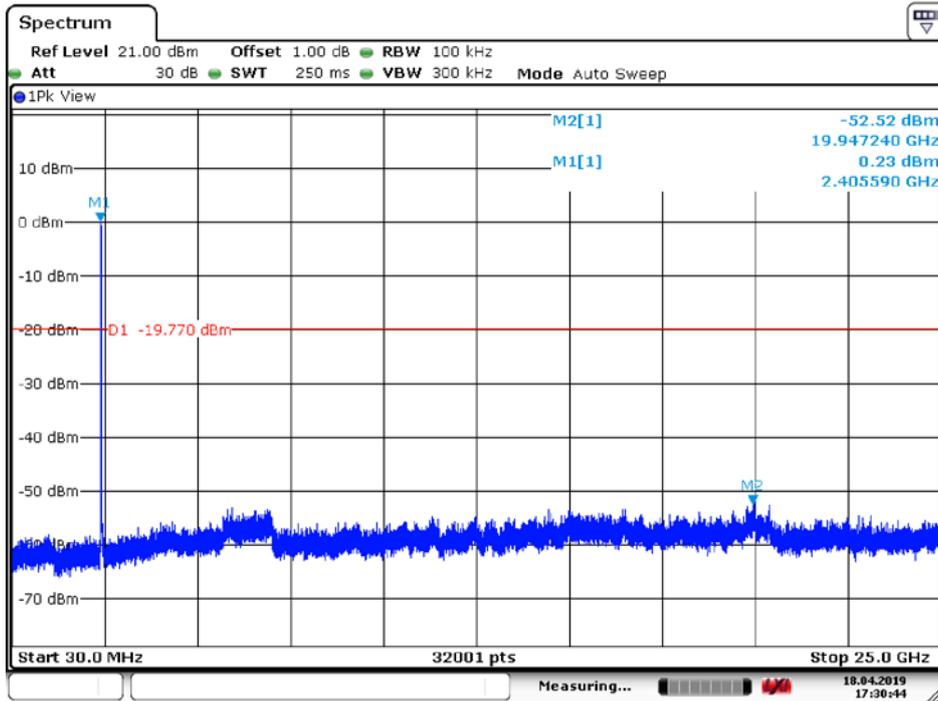


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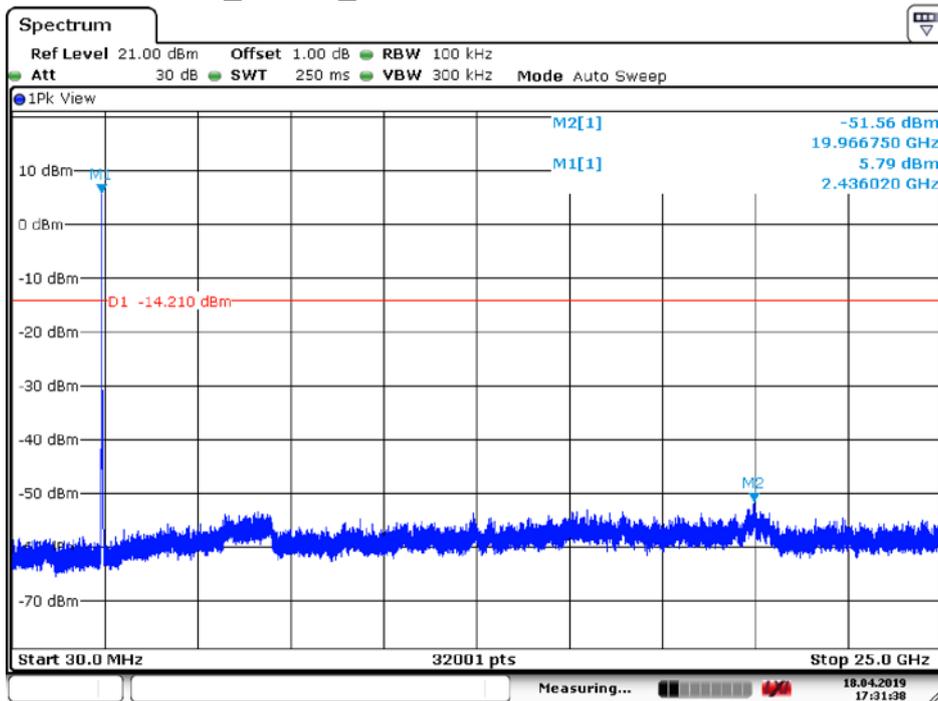
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4.8.1.2.13 802.11N20_MIMO_Lowest Channel



Date: 18.APR.2019 17:30:44

4.8.1.2.14 802.11 N20_MIMO_Middle Channel



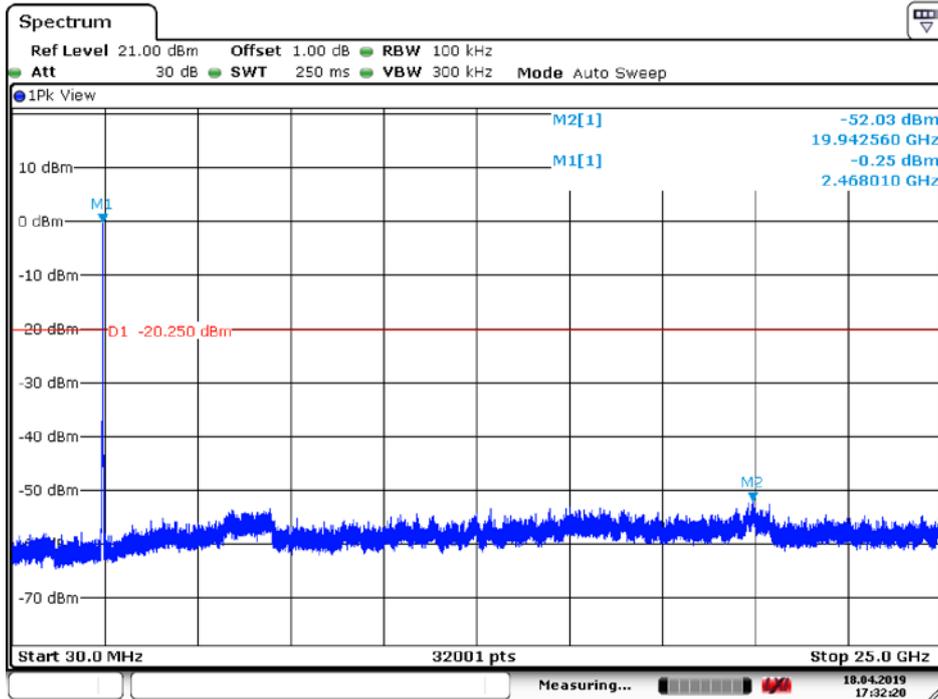
Date: 18.APR.2019 17:31:38



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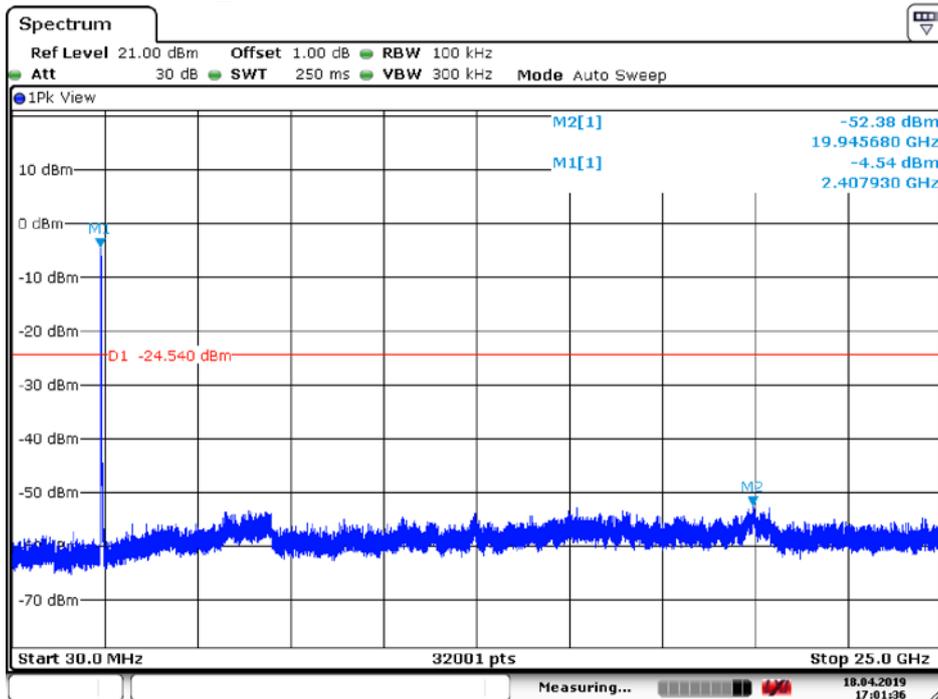
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4.8.1.2.15 802.11 N20_ MIMO_Highest Channel



Date: 18.APR.2019 17:32:20

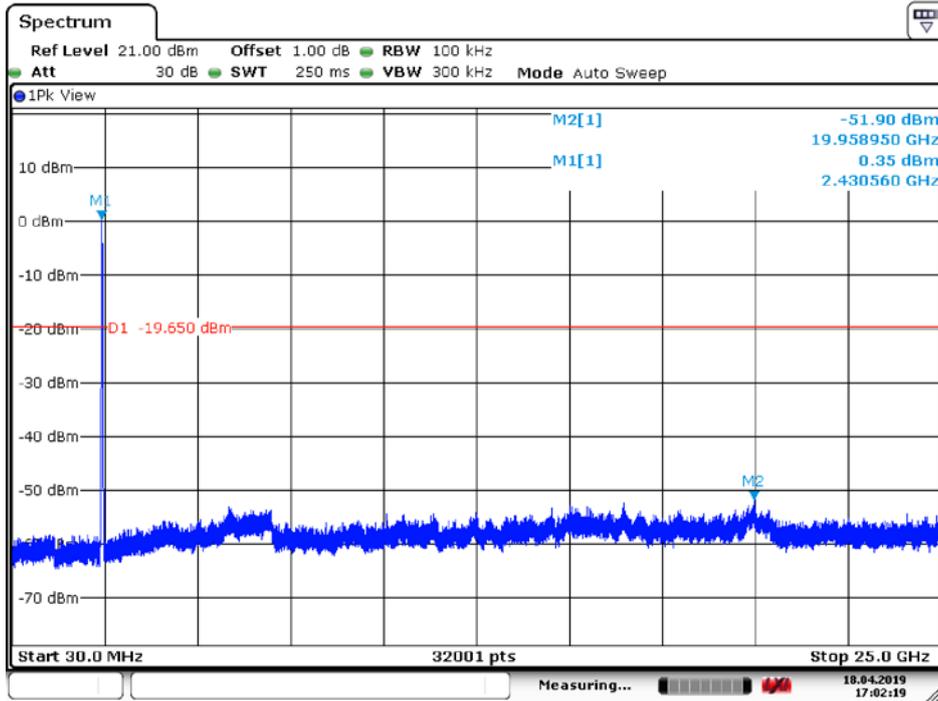
4.8.1.2.16 802.11N40_Lowest Channel



Date: 18.APR.2019 17:01:36

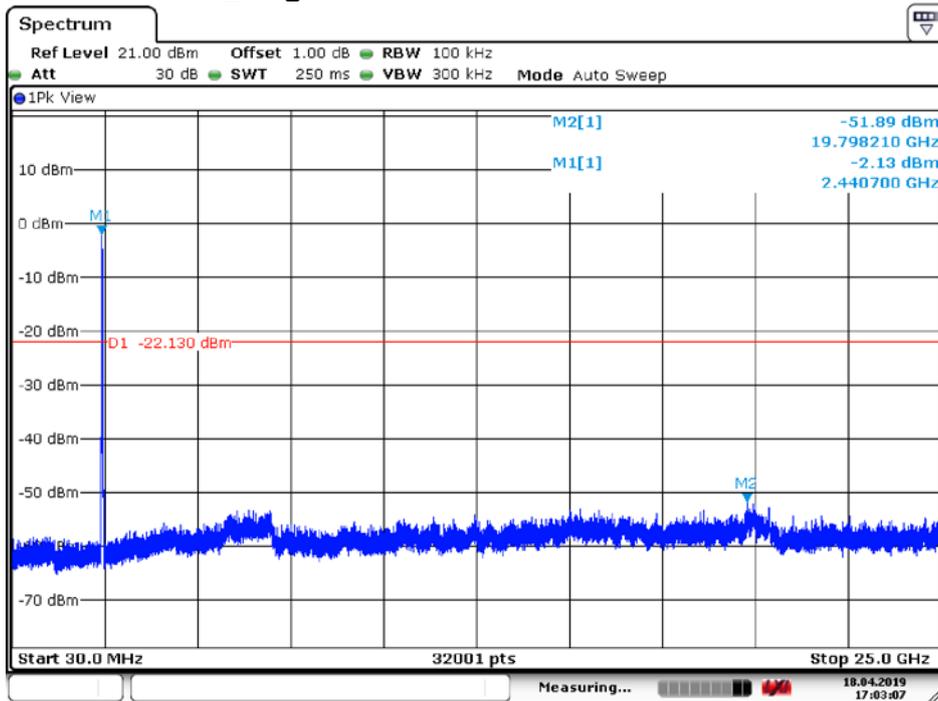


4.8.1.2.17 802.11 N40_ Middle Channel



Date: 18.APR.2019 17:02:19

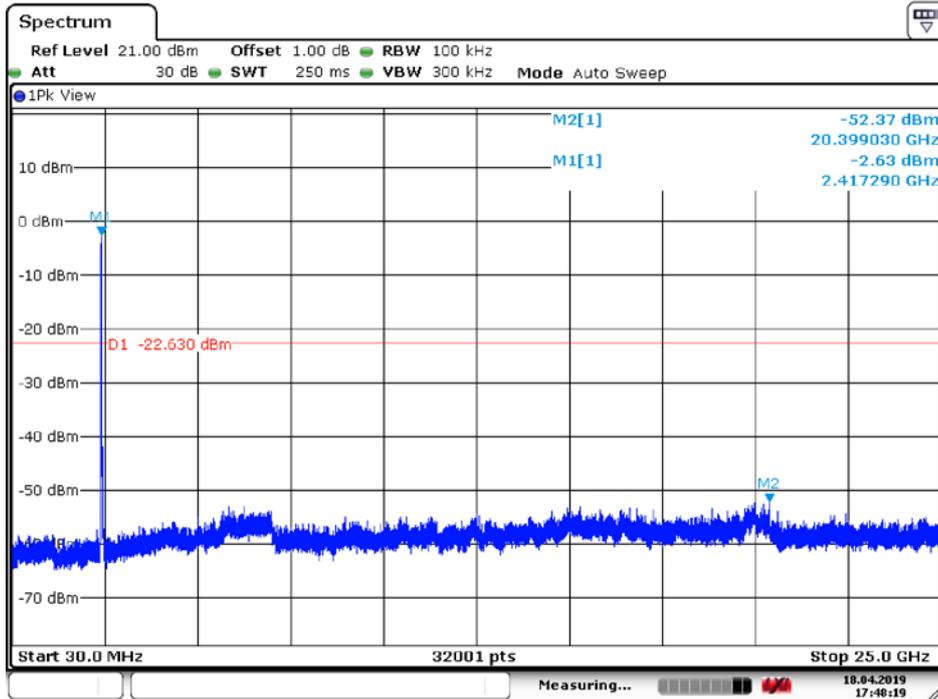
4.8.1.2.18 802.11 N40_ Highest Channel



Date: 18.APR.2019 17:03:08

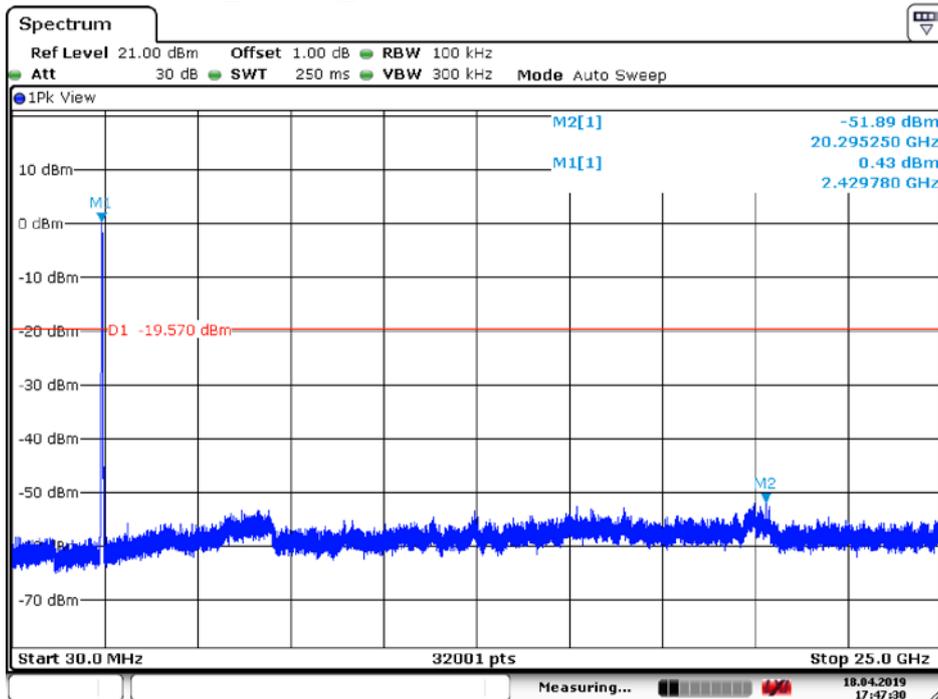


4.8.1.2.19 802.11N40_ MIMO_ Lowest Channel



Date: 18.APR.2019 17:48:19

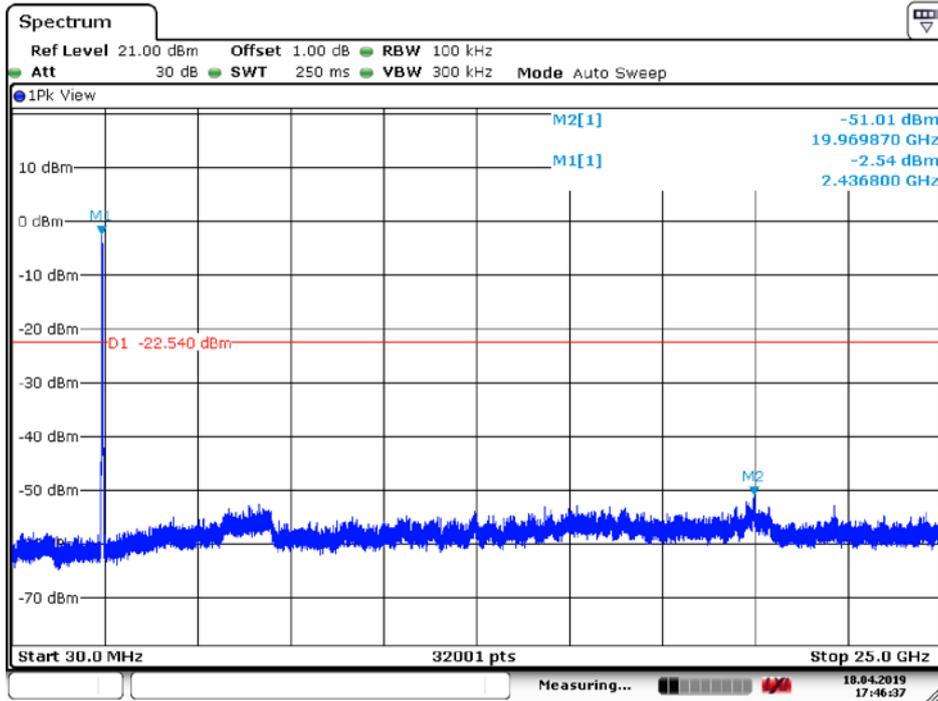
4.8.1.2.20 802.11 N40_ MIMO_ Middle Channel



Date: 18.APR.2019 17:47:30



4.8.1.2.21 802.11 N40_MIMO_ Highest Channel



Date: 18.APR.2019 17:46:38

Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



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Test Setup:

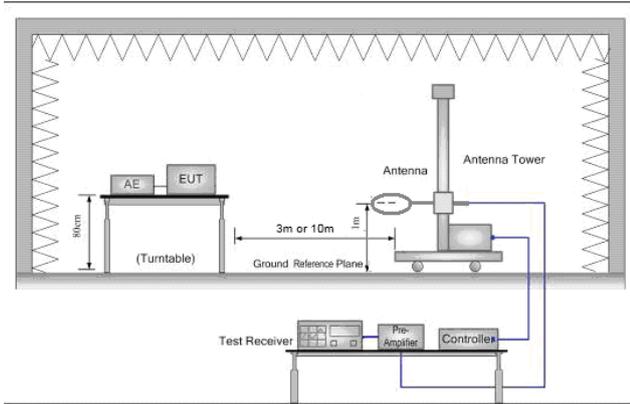


Figure 1. Below 30MHz

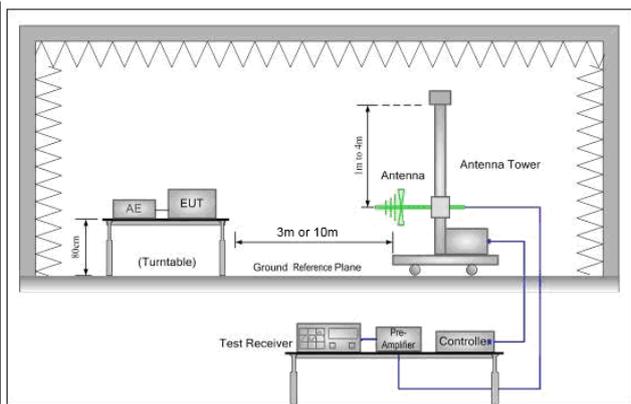


Figure 2. 30MHz to 1GHz

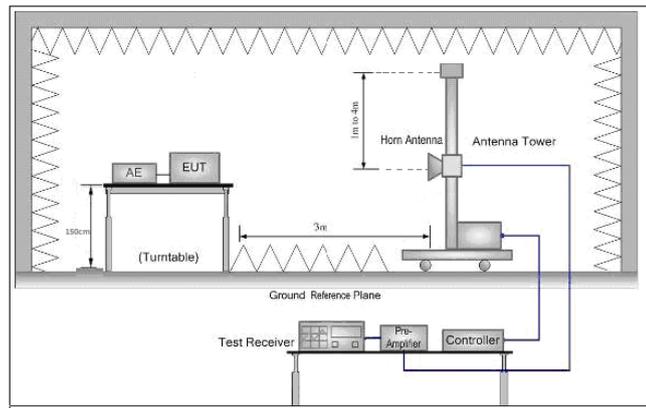


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would



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	<p>be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel, the middle channel ,the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Through Pre-scan, find the</p> <p>11Mbps of rate is the worst case of 802.11B;</p> <p>6Mbps of rate is the worst case of 802.11G;</p> <p>6.5Mbps of rate is the worst case of 802.11N(HT20);</p> <p>13.5Mbps of rate is the worst case of 802.11N(HT40)</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11B at lowest channel is the worst case. Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

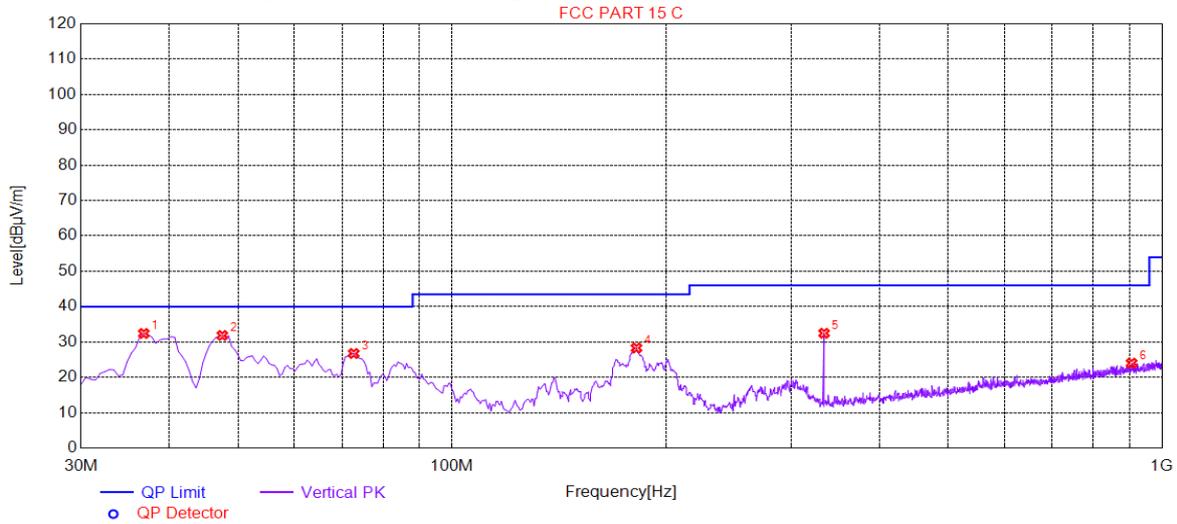


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4.9.1 Radiated emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



Suspected List

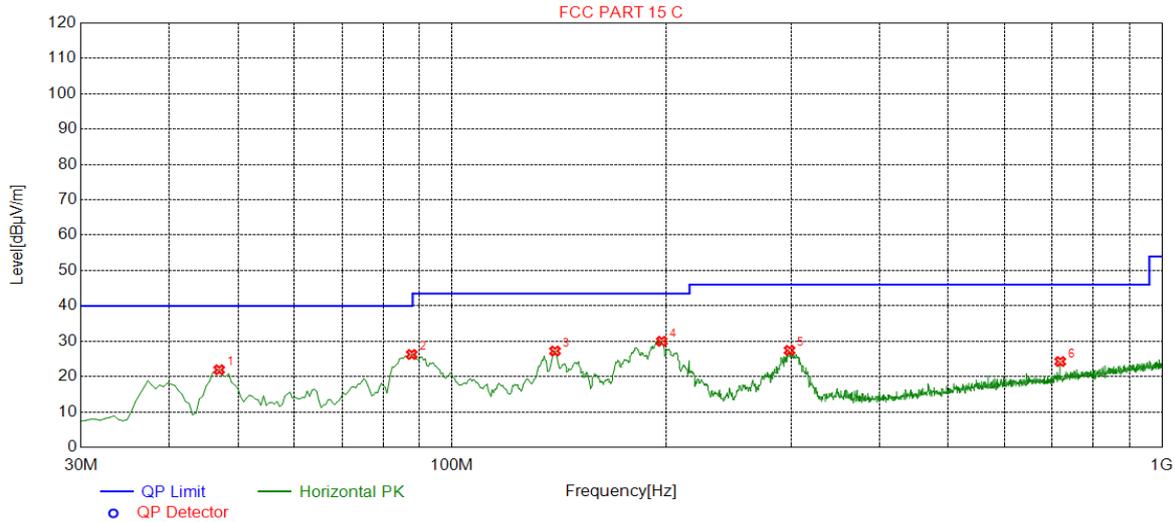
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7934	32.41	-32.19	40.00	7.59	100	80	Vertical
2	47.4687	31.85	-30.20	40.00	8.15	100	102	Vertical
3	72.7014	26.75	-34.62	40.00	13.25	200	237	Vertical
4	181.880	28.29	-32.72	43.50	15.21	100	0	Vertical
5	334.247	32.48	-26.88	46.00	13.52	200	275	Vertical
6	906.348	24.02	-15.13	46.00	21.98	100	344	Vertical



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4.9.1.2 Charge + Transmitting, Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.9835	21.93	-30.20	40.00	18.07	200	36	Horizontal
2	87.7439	26.27	-33.97	40.00	13.73	200	179	Horizontal
3	139.664	27.23	-35.20	43.50	16.27	200	237	Horizontal
4	197.408	29.99	-31.09	43.50	13.51	100	222	Horizontal
5	298.824	27.41	-27.89	46.00	18.59	100	84	Horizontal
6	719.044	24.27	-18.28	46.00	21.73	200	188	Horizontal



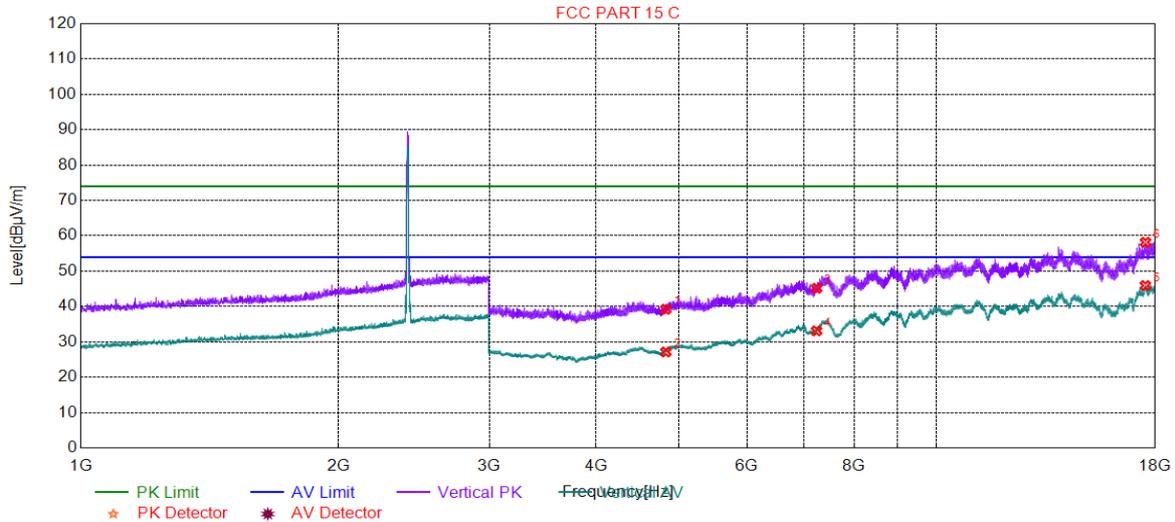
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4.9.2 Transmitter emission above 1GHz

4.9.2.1 ANT1

4.9.2.1.1 802.11B_ANT1_Lowest Channel_Peak_Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.00	39.21	-20.09	74.00	34.79	150	16	Vertical
2	4824.00	27.15	-20.09	54.00	26.85	150	212	Vertical
3	7236.00	45.18	-12.40	74.00	28.82	150	90	Vertical
4	7236.00	33.13	-12.40	54.00	20.87	150	347	Vertical
5	17524.9	45.94	0.67	54.00	8.06	150	127	Vertical
6	17530.4	58.17	0.74	74.00	15.83	150	301	Vertical



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