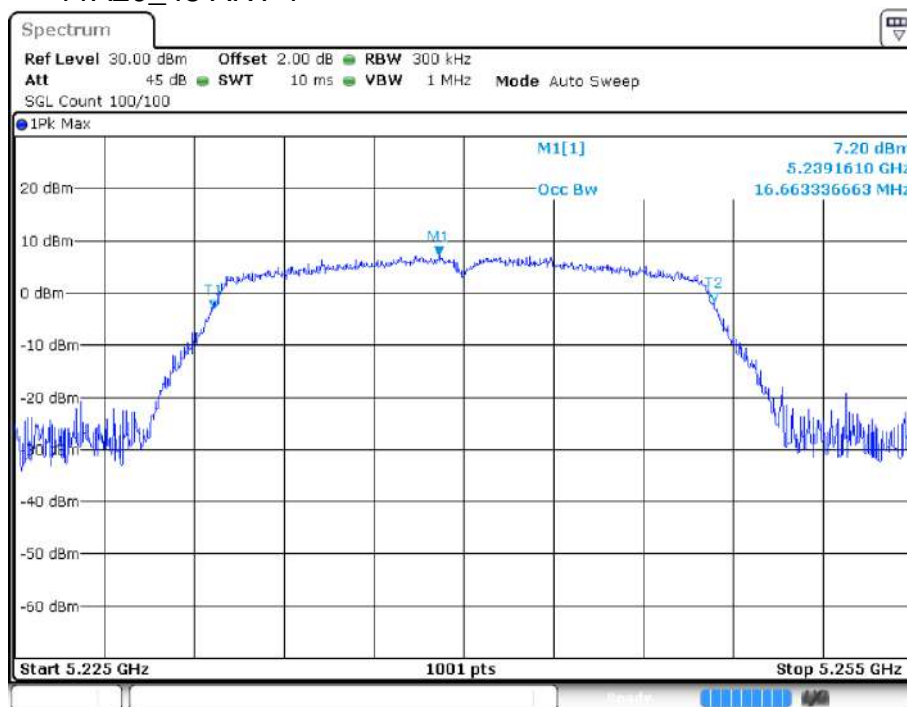


4.5.2.2

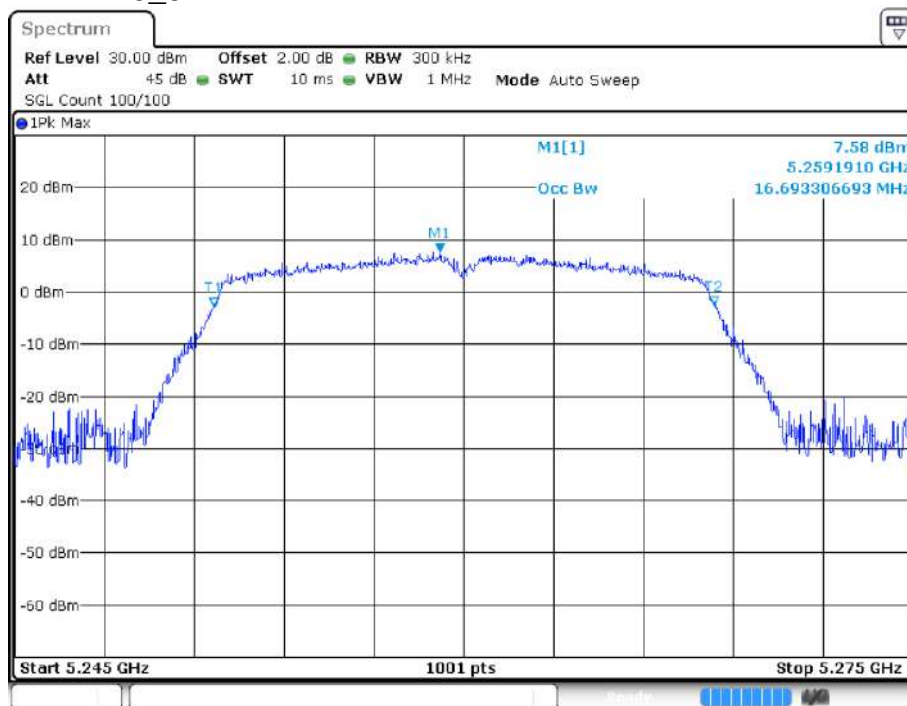
11A20_48 ANT 1



Date: 2.NOV.2019 00:27:26

4.5.2.3

11A20_52 ANT 1



Date: 2.NOV.2019 00:28:35



4.5.2.4

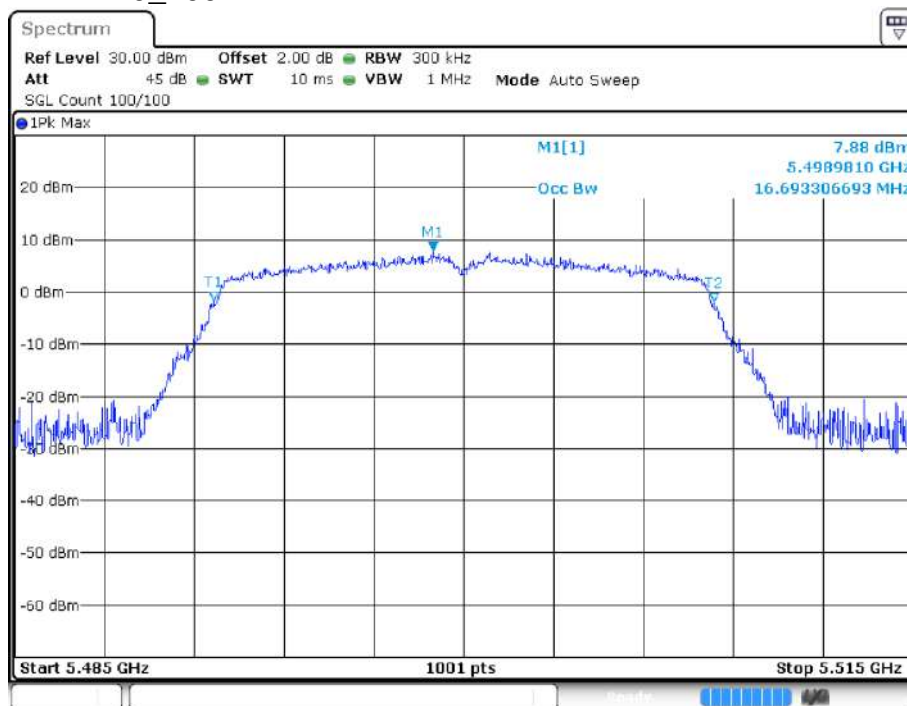
11A20_64 ANT 1



Date: 2.NOV.2019 00:29:30

4.5.2.5

11A20_100 ANT 1

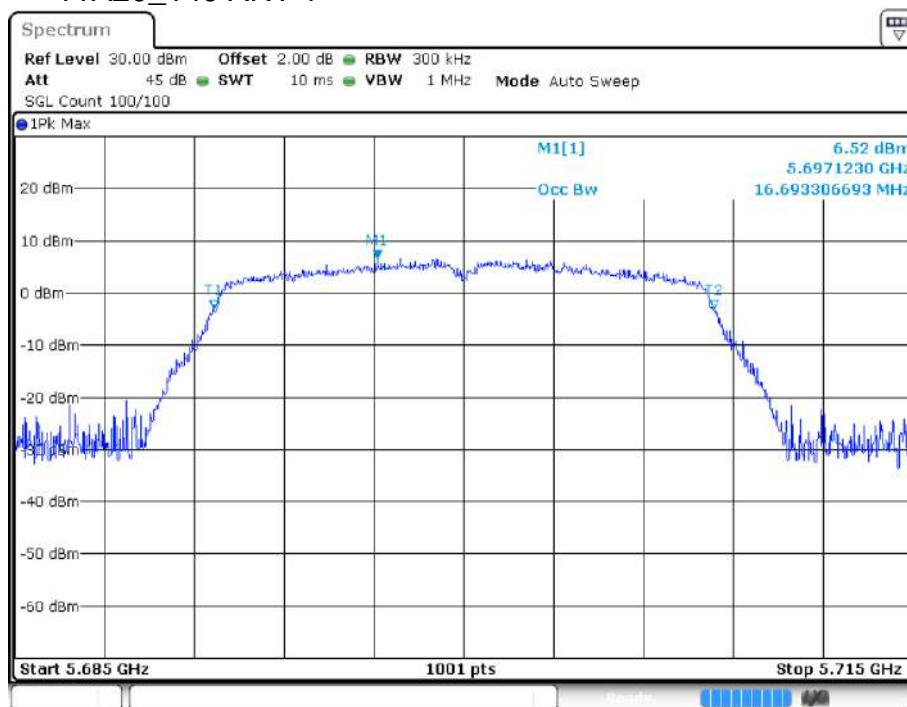


Date: 2.NOV.2019 00:31:25



4.5.2.6

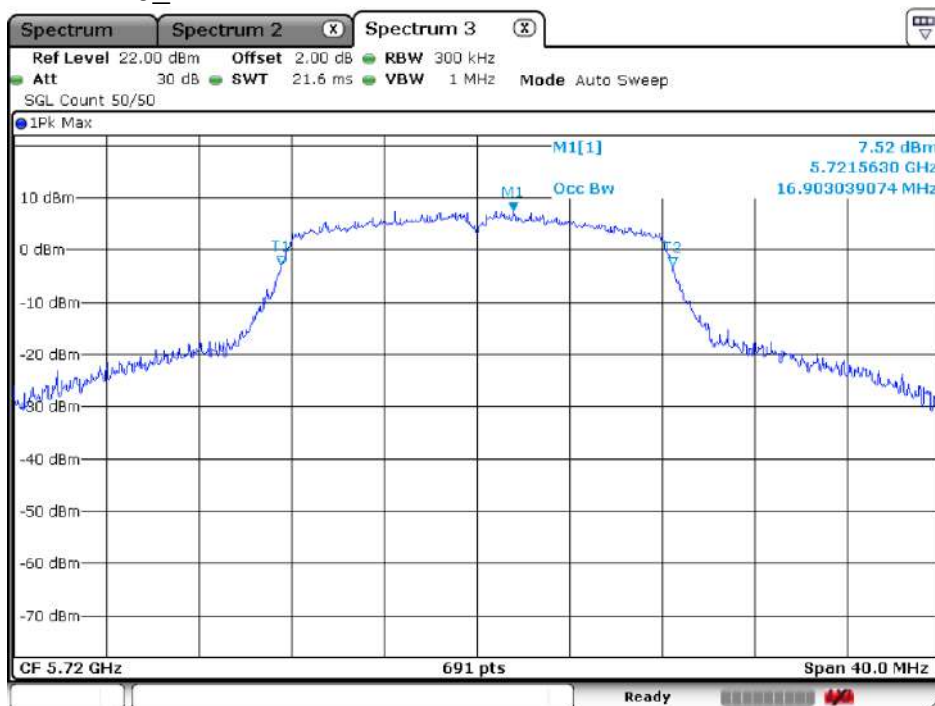
11A20_140 ANT 1



Date: 2.NOV.2019 00:32:47

4.5.2.7

11A20_144 ANT 1

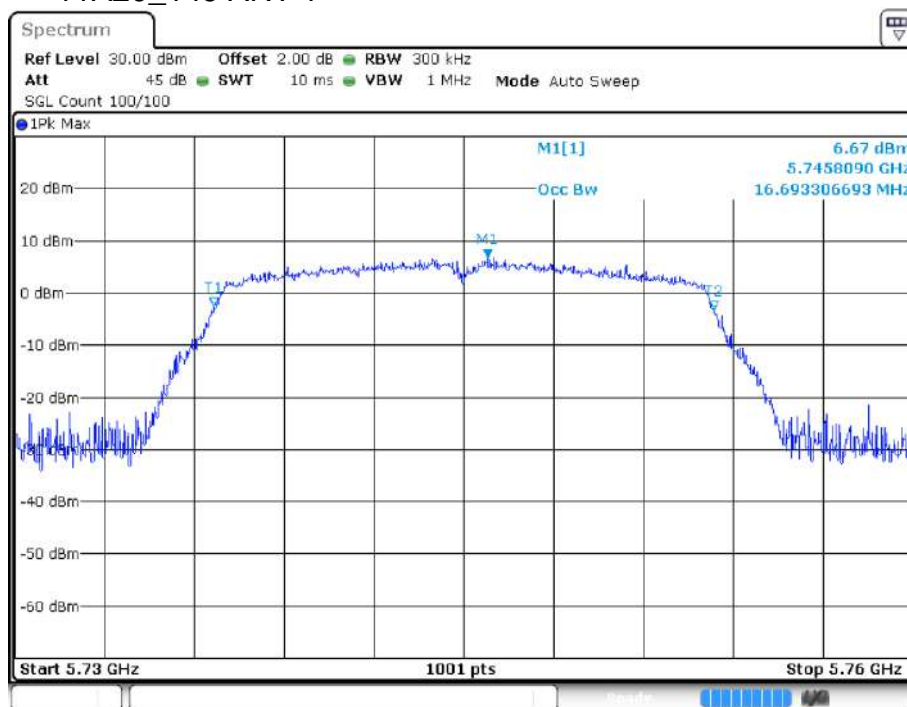


Date: 14.DEC.2019 03:42:44



4.5.2.8

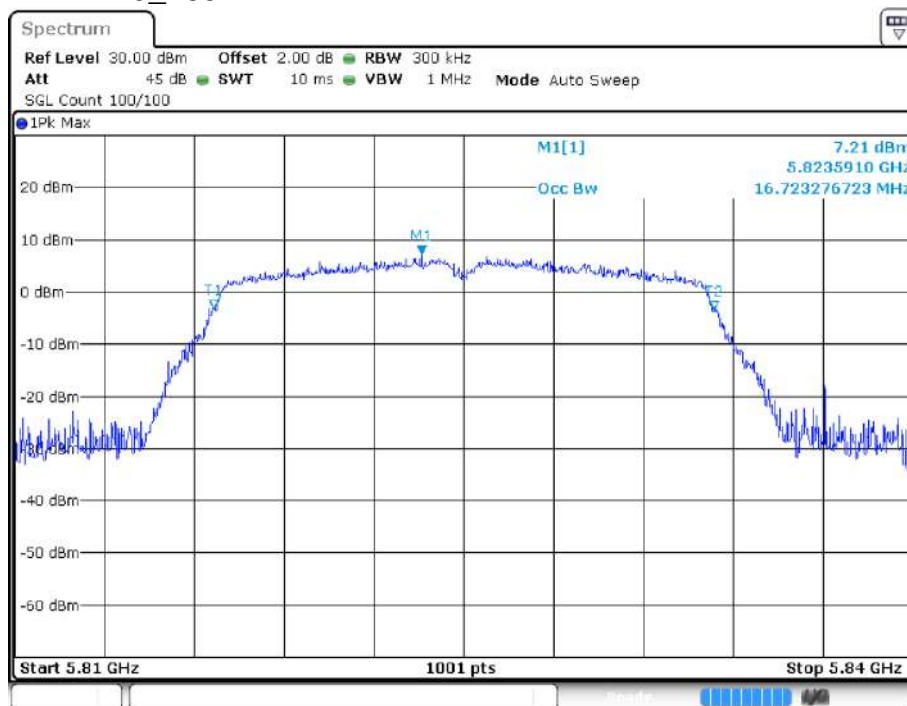
11A20_149 ANT 1



Date: 2.NOV.2019 00:35:14

4.5.2.9

11A20_165 ANT 1

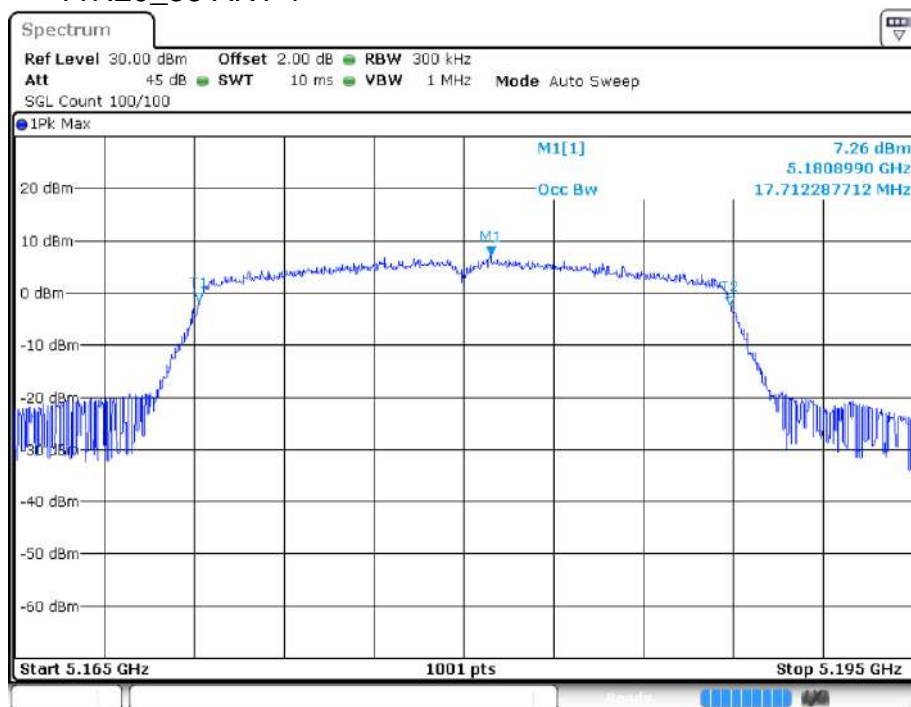


Date: 2.NOV.2019 00:37:24



4.5.2.10

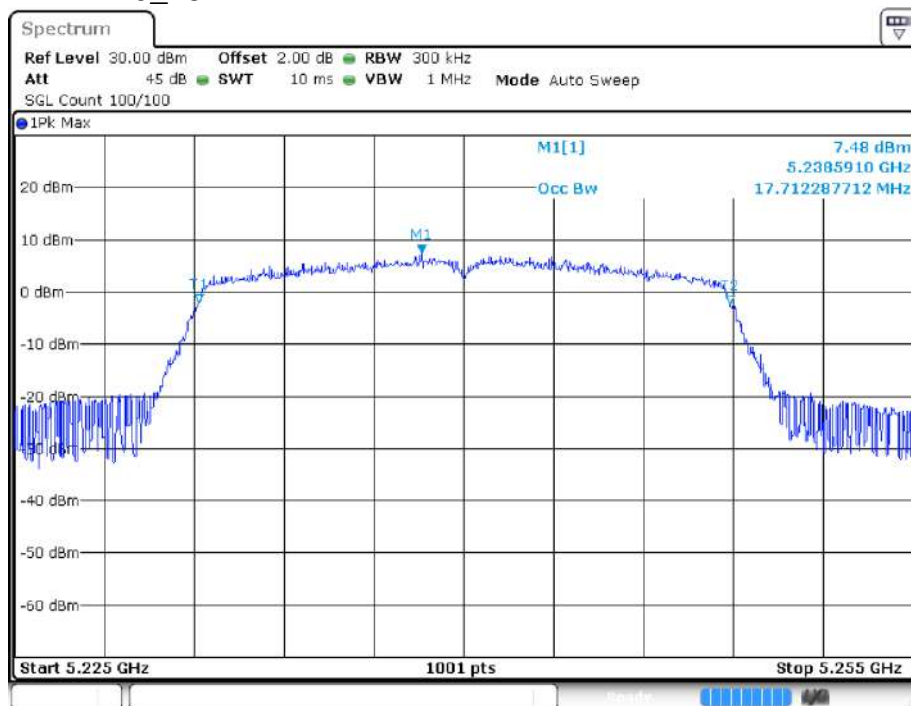
11N20_36 ANT 1



Date: 2.NOV.2019 00:39:31

4.5.2.11

11N20_48 ANT 1

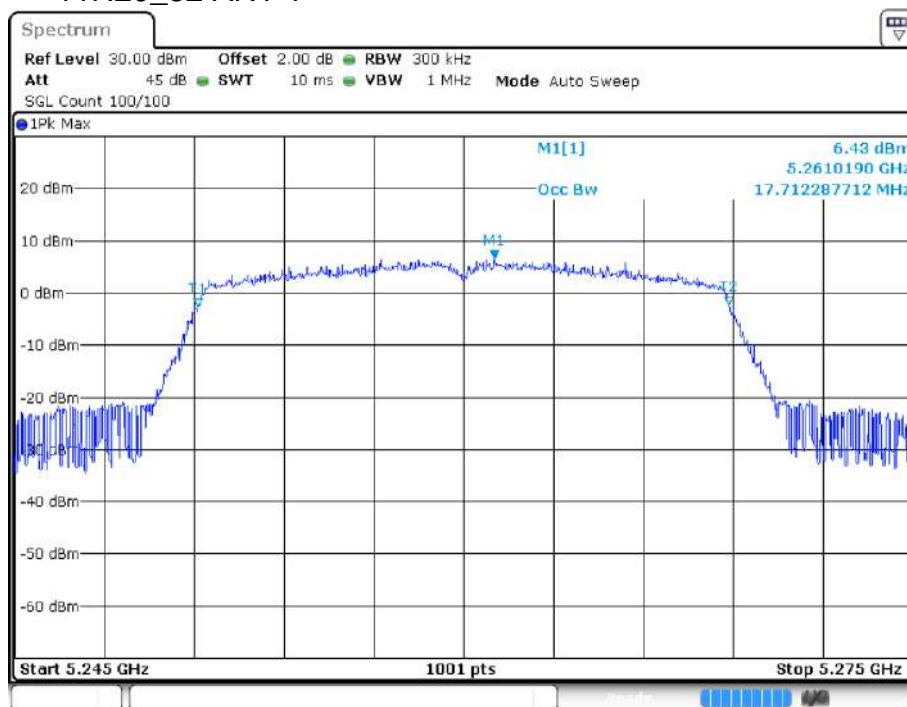


Date: 2.NOV.2019 00:40:24



4.5.2.12

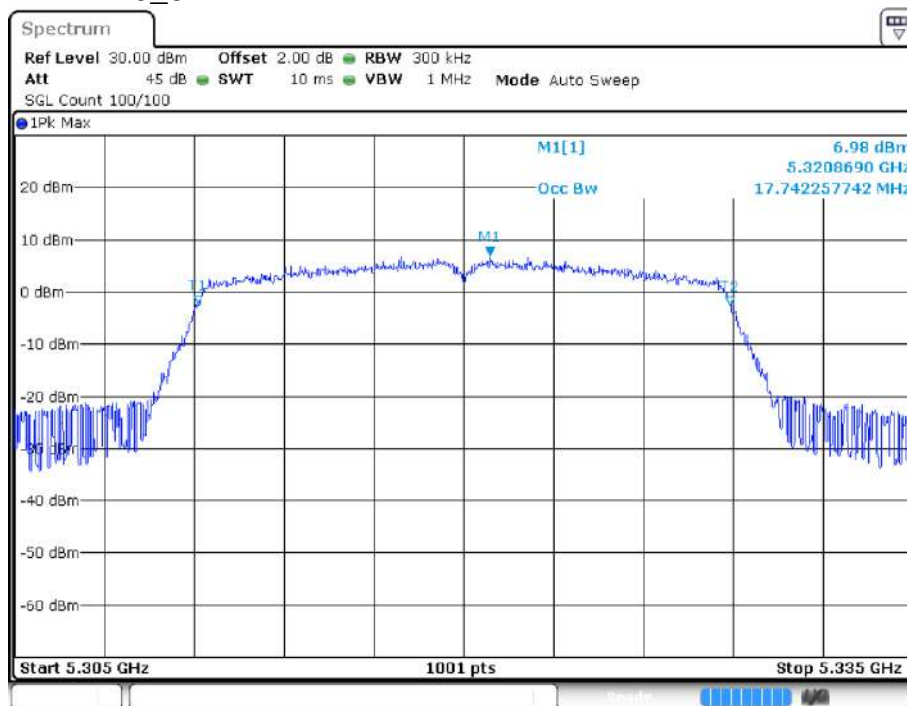
11N20_52 ANT 1



Date: 2.NOV.2019 00:41:29

4.5.2.13

11N20_64 ANT 1

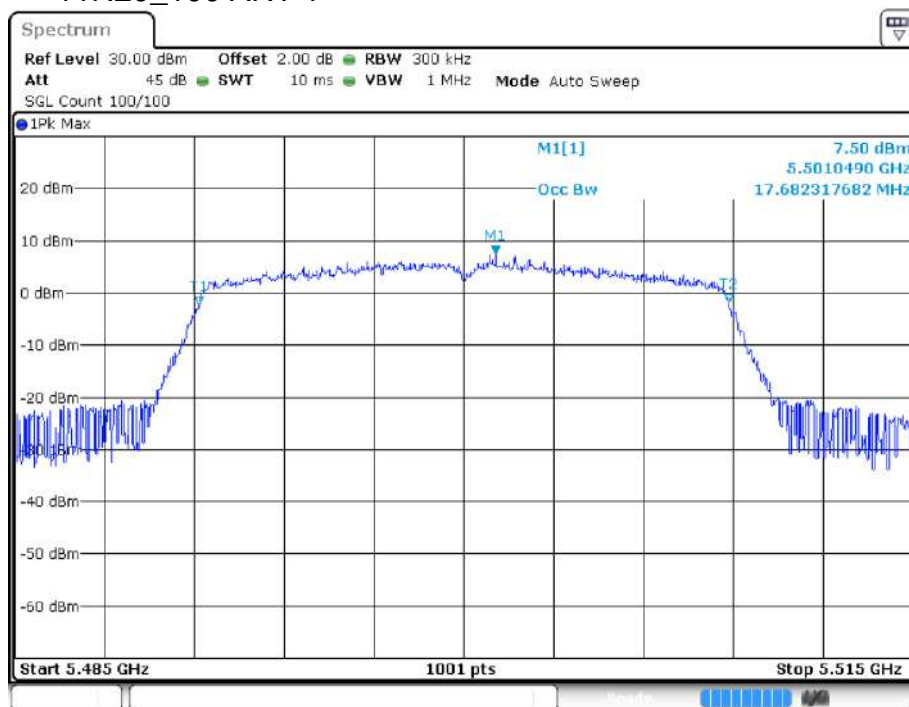


Date: 2.NOV.2019 00:42:22



4.5.2.14

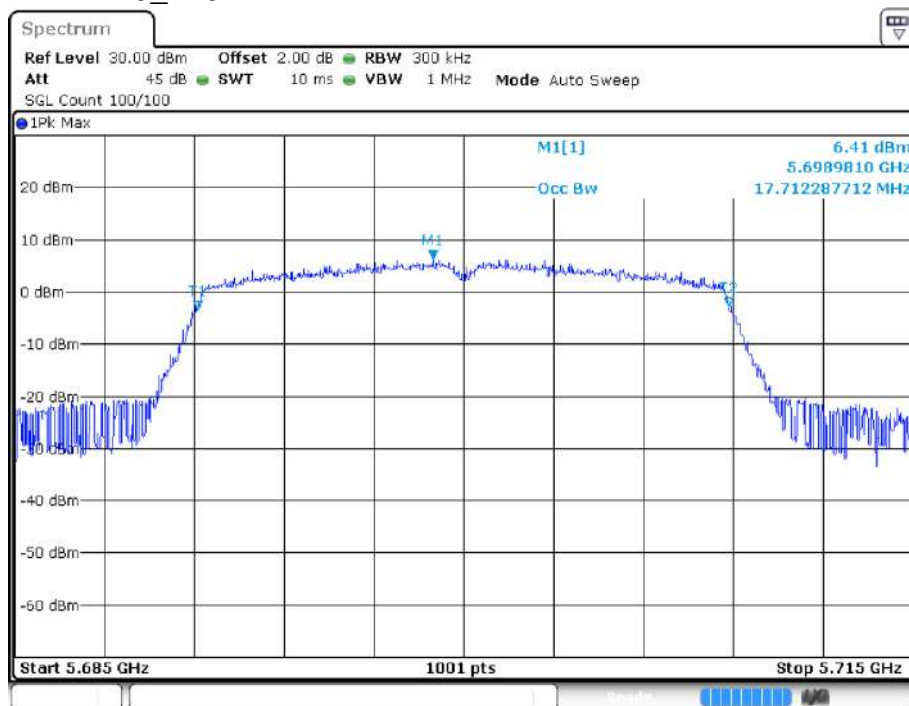
11N20_100 ANT 1



Date: 2.NOV.2019 00:43:36

4.5.2.15

11N20_140 ANT 1

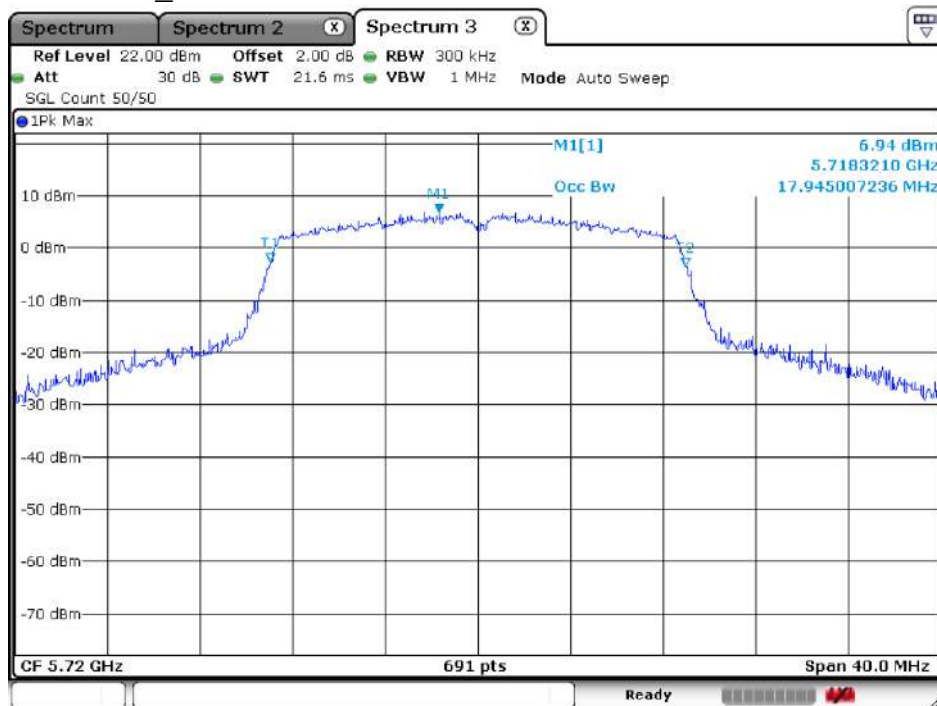


Date: 2.NOV.2019 00:44:31



4.5.2.16

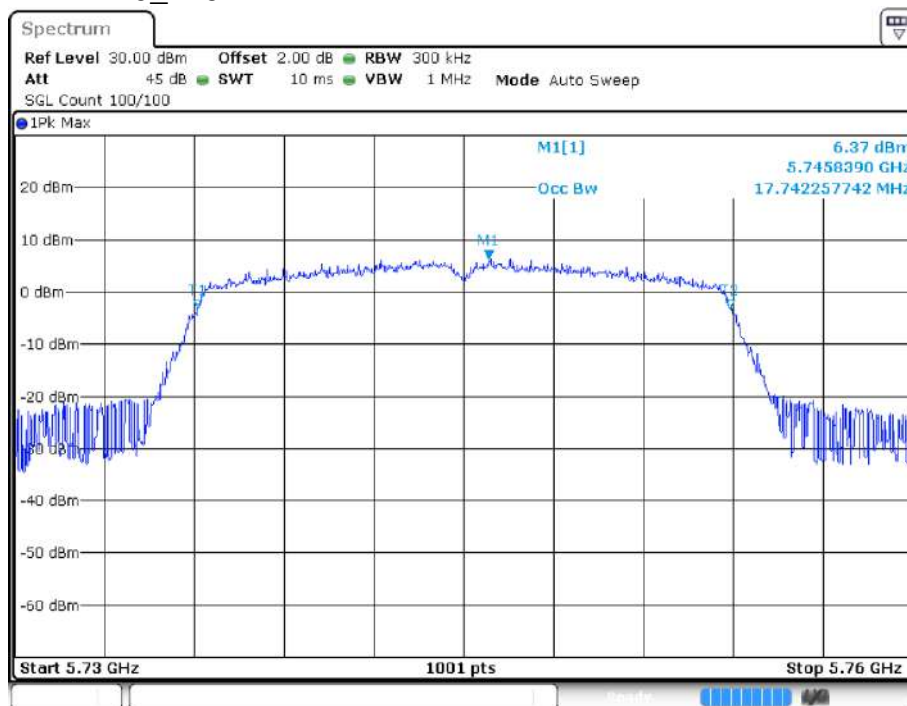
11N20_144 ANT 1



Date: 14.DEC.2019 03:43:26

4.5.2.17

11N20_149 ANT 1

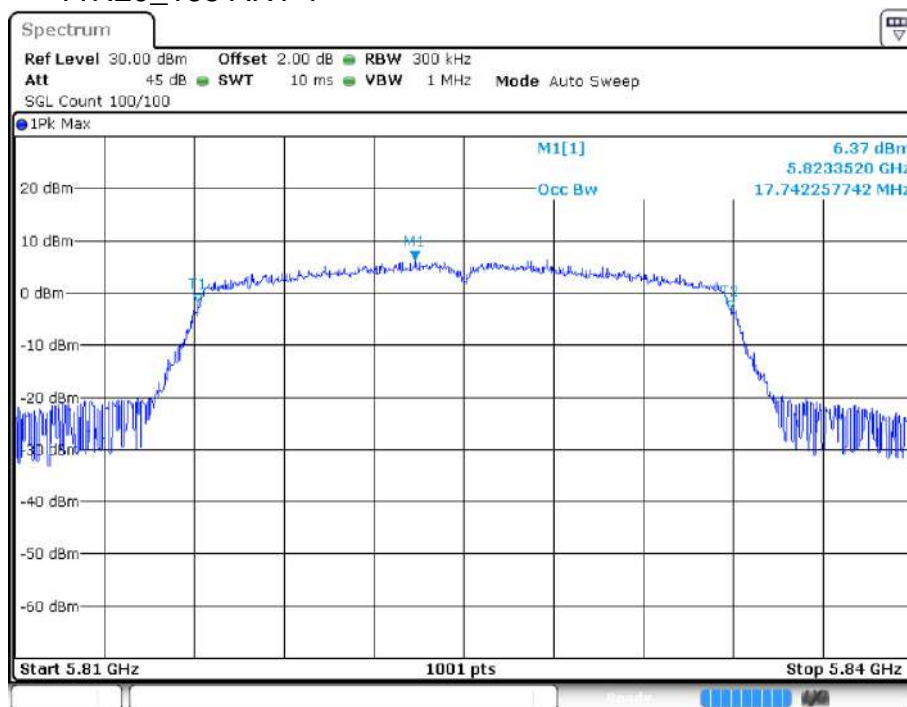


Date: 2.NOV.2019 00:45:51



4.5.2.18

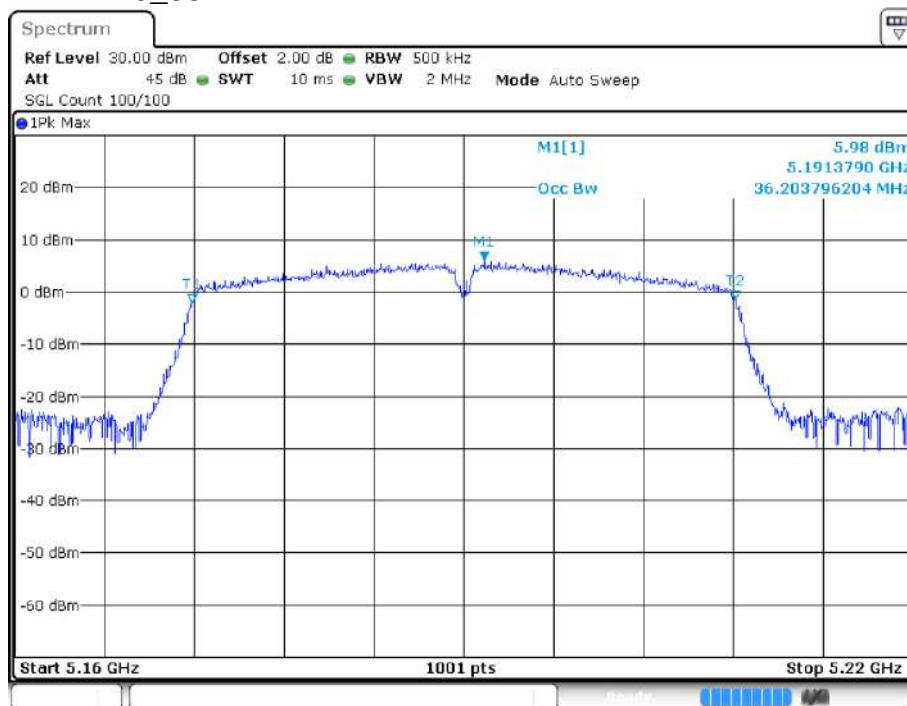
11N20_165 ANT 1



Date: 2.NOV.2019 00:46:42

4.5.2.19

11N40_38 ANT 1

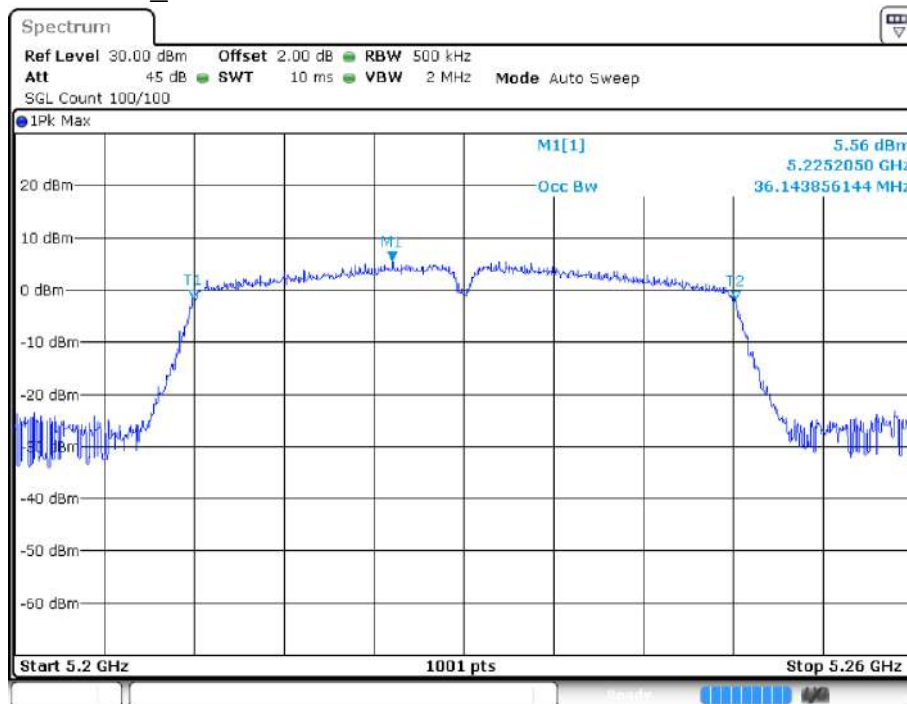


Date: 2.NOV.2019 01:02:48



4.5.2.20

11N40_46 ANT 1



Date: 2.NOV.2019 01:04:09

4.5.2.21

11N40_54 ANT 1



Date: 2.NOV.2019 01:06:33



SGS-CSTC Standards Technical Services Co., Ltd.
 Inspection & Testing Services
 Shenzhen Branch

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4.5.2.22

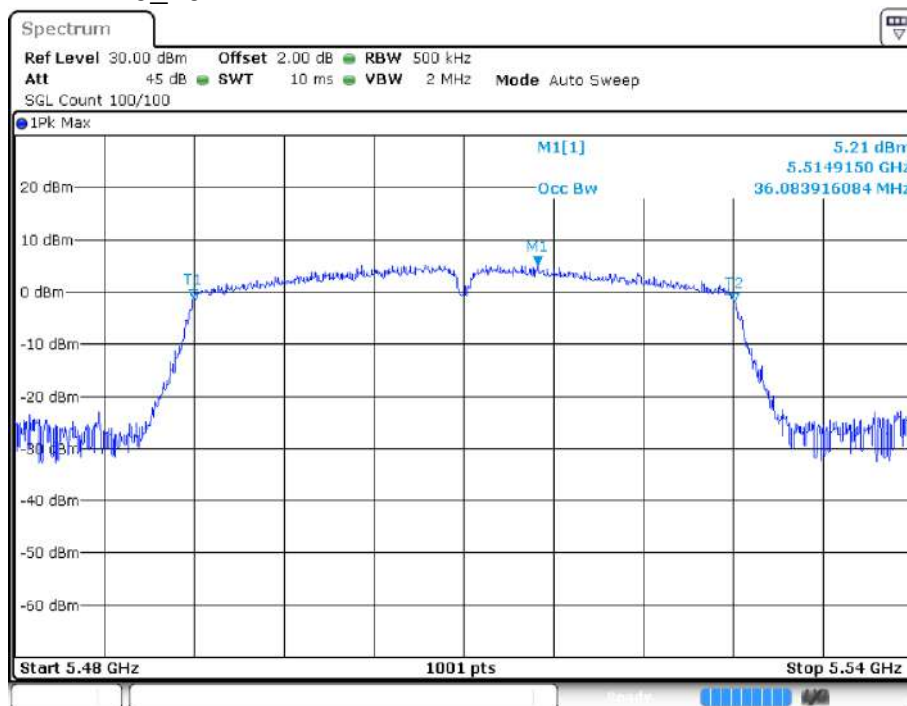
11N40_62 ANT 1



Date: 2.NOV.2019 01:08:51

4.5.2.23

11N40_102 ANT 1

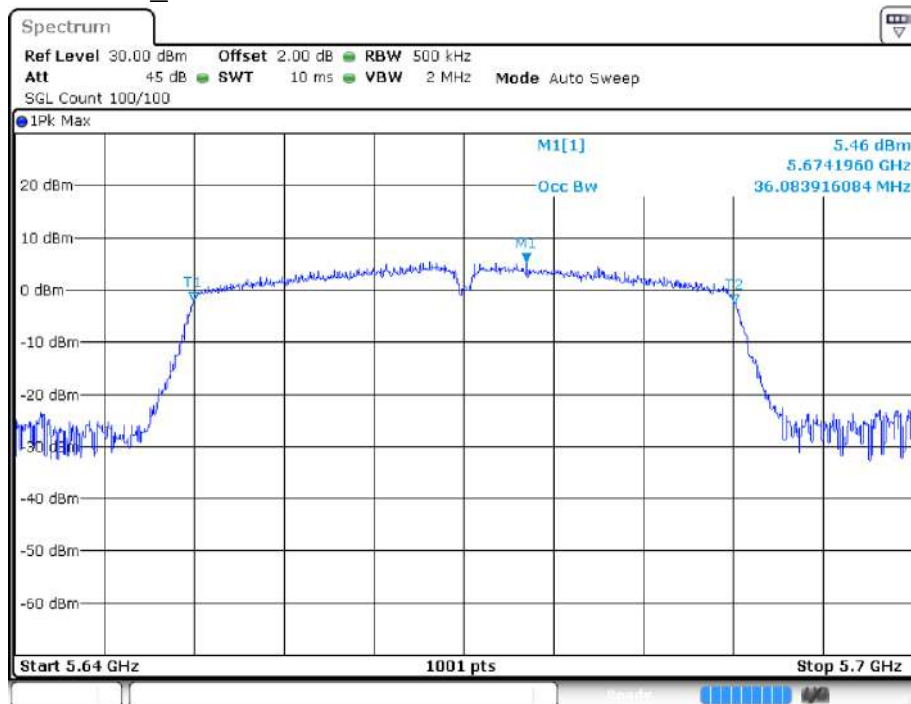


Date: 2.NOV.2019 01:10:08



4.5.2.24

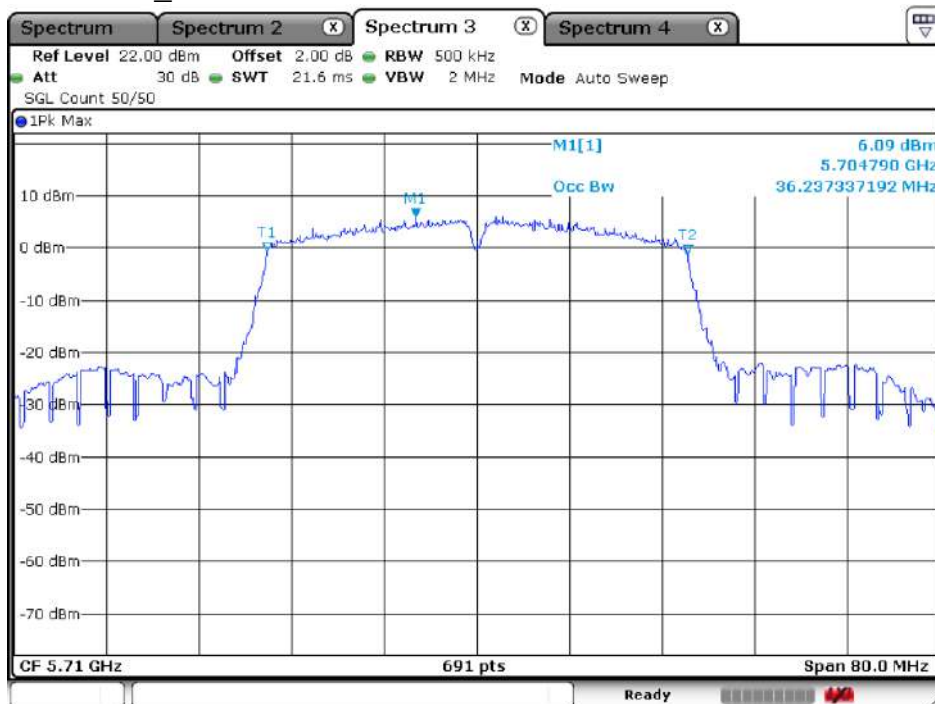
11N40_134 ANT 1



Date: 2.NOV.2019 01:11:50

4.5.2.25

11N40_142 ANT 1

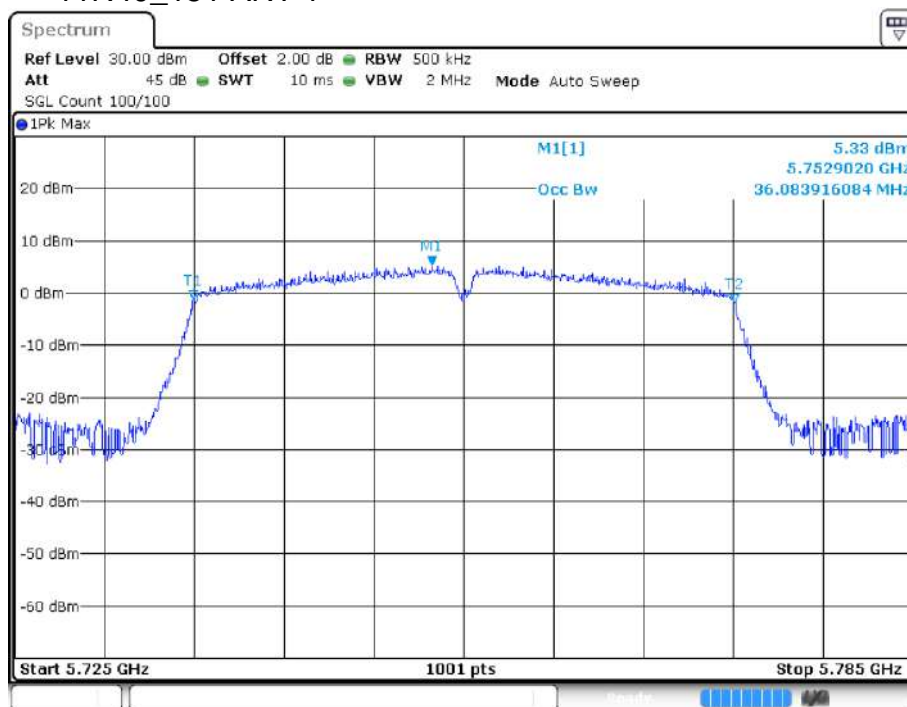


Date: 14.DEC.2019 06:08:21



4.5.2.26

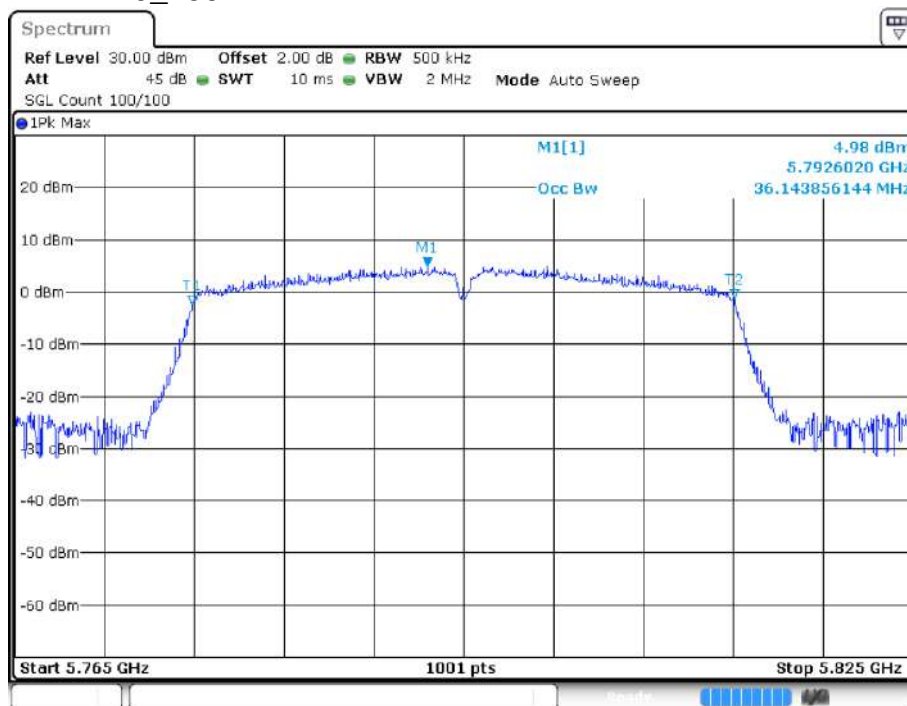
11N40_151 ANT 1



Date: 2.NOV.2019 01:13:48

4.5.2.27

11N40_159 ANT 1



Date: 2.NOV.2019 01:15:01

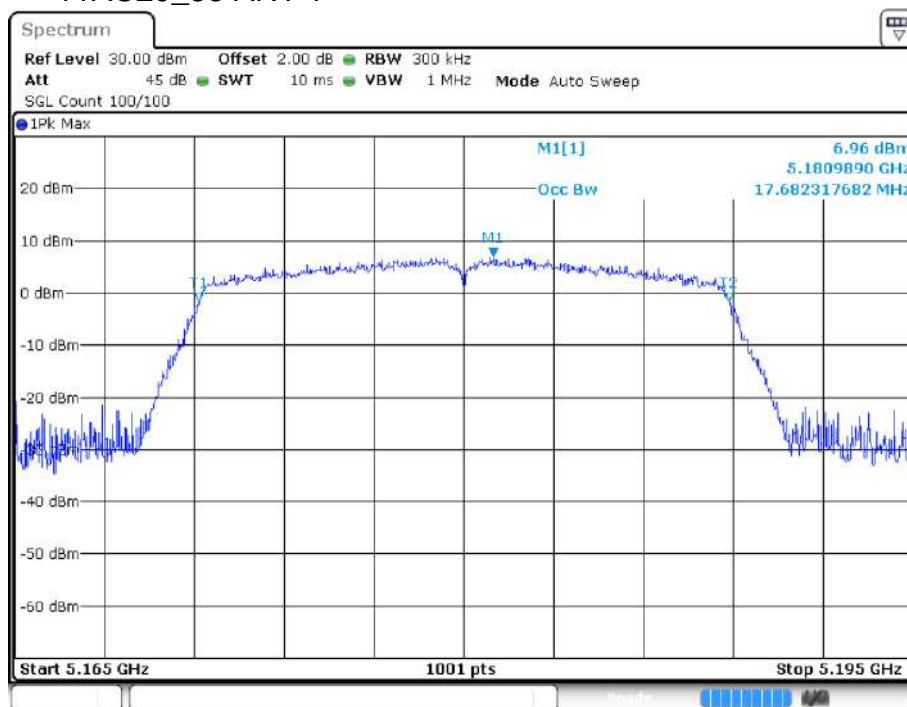


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4.5.2.28

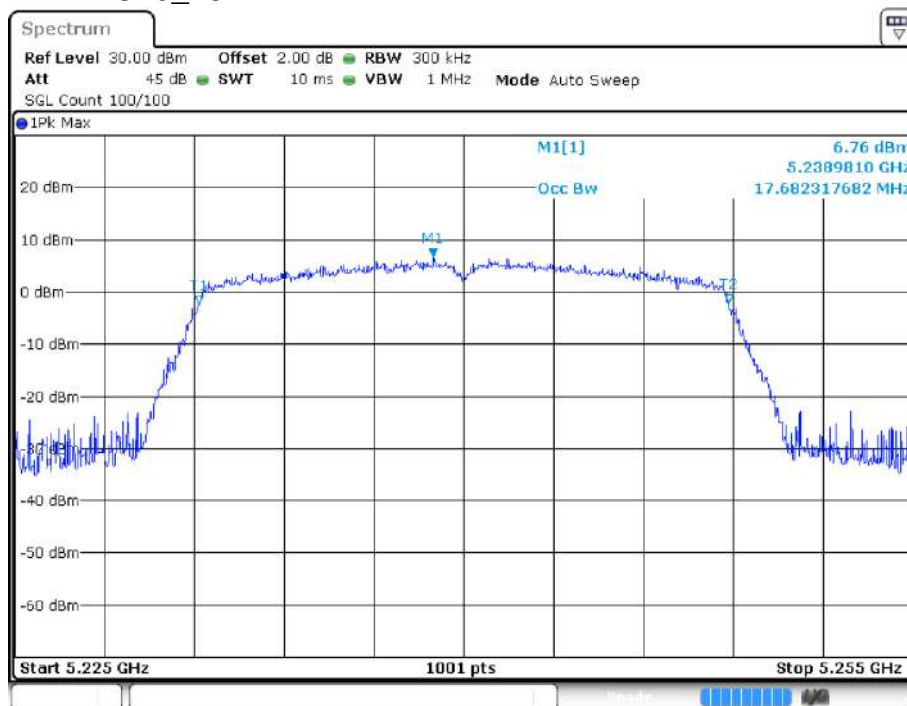
11AC20_36 ANT 1



Date: 2.NOV.2019 00:48:26

4.5.2.29

11AC20_48 ANT 1

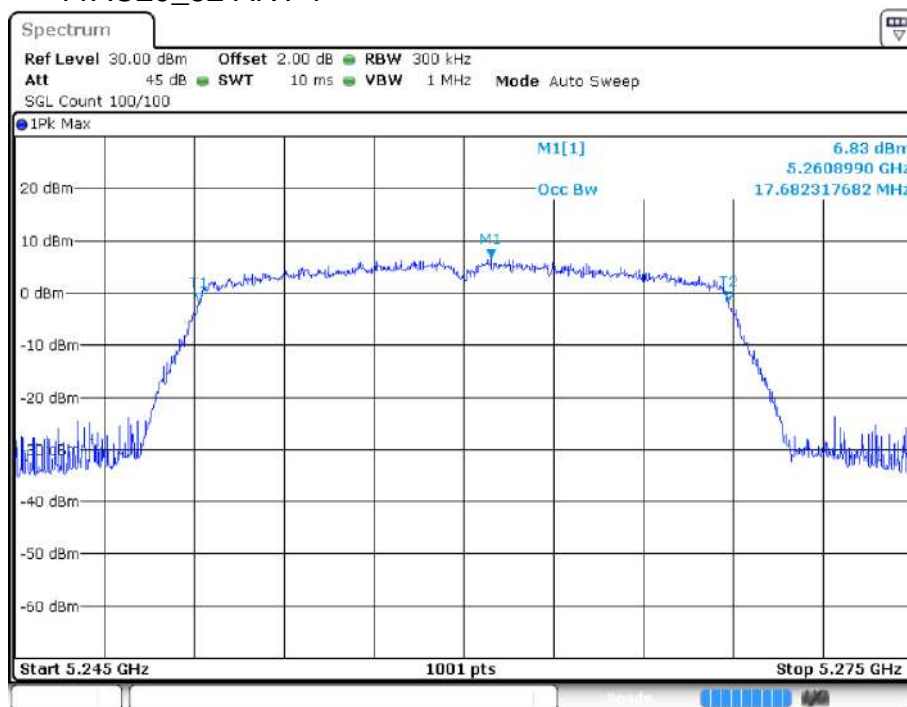


Date: 2.NOV.2019 00:50:59



4.5.2.30

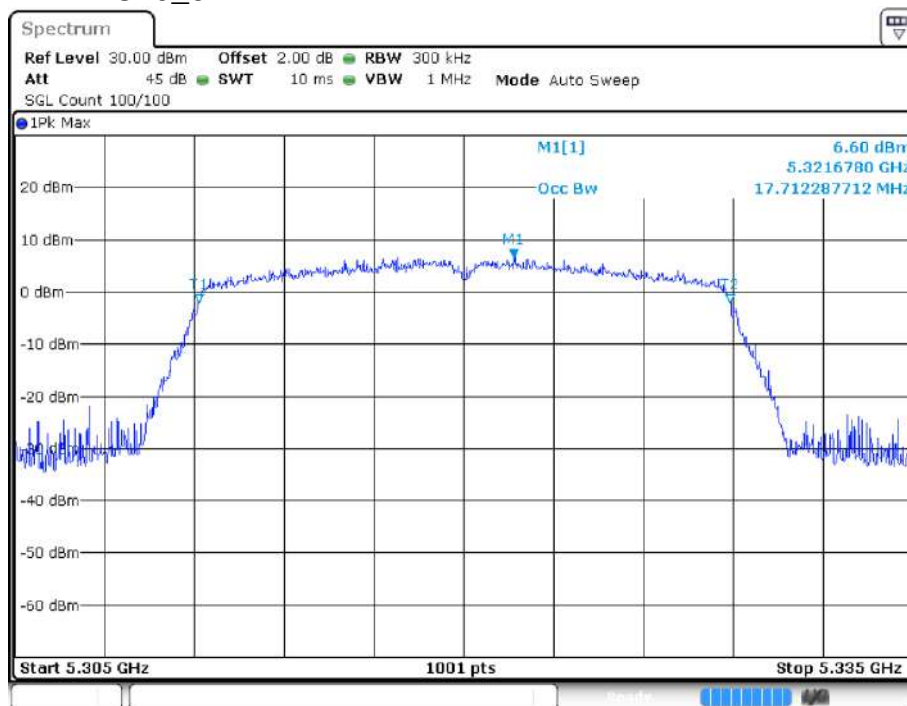
11AC20_52 ANT 1



Date: 2.NOV.2019 00:52:26

4.5.2.31

11AC20_64 ANT 1

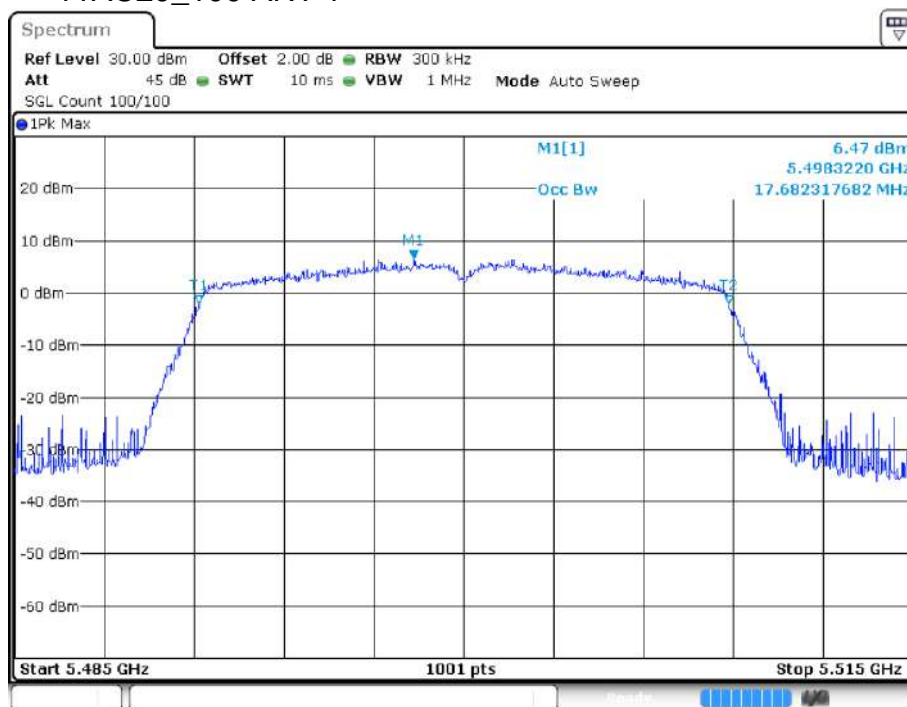


Date: 2.NOV.2019 00:53:40



4.5.2.32

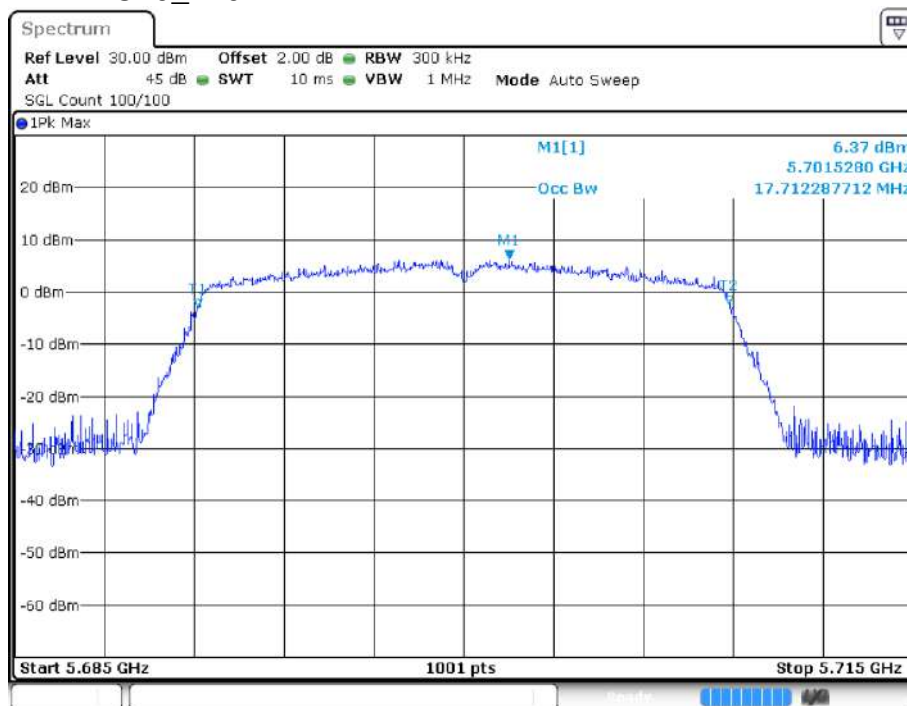
11AC20_100 ANT 1



Date: 2.NOV.2019 00:55:55

4.5.2.33

11AC20_140 ANT 1

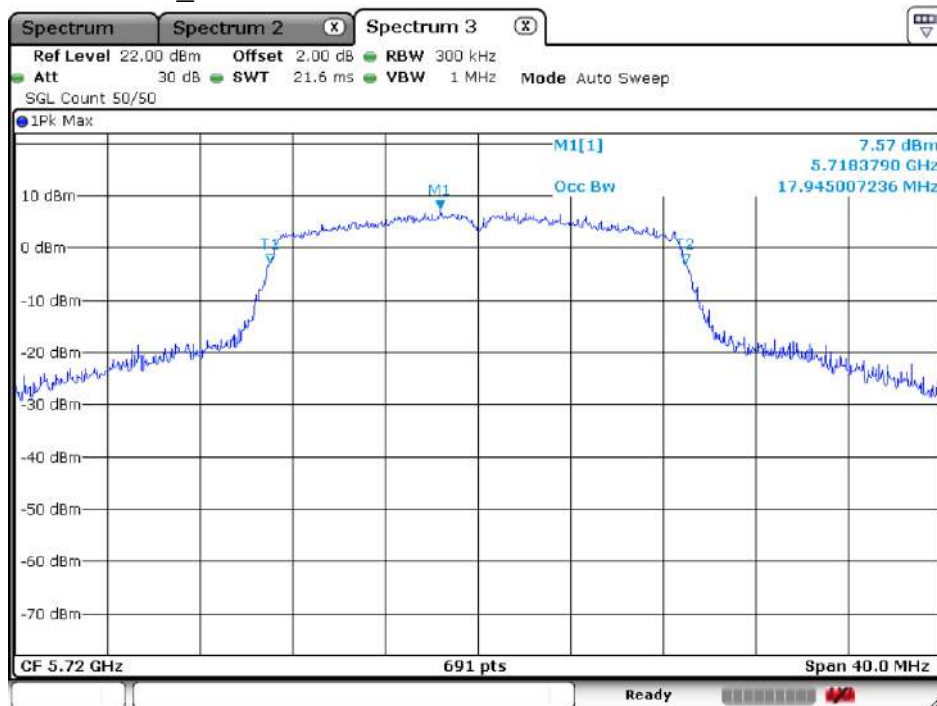


Date: 2.NOV.2019 00:57:24



4.5.2.34

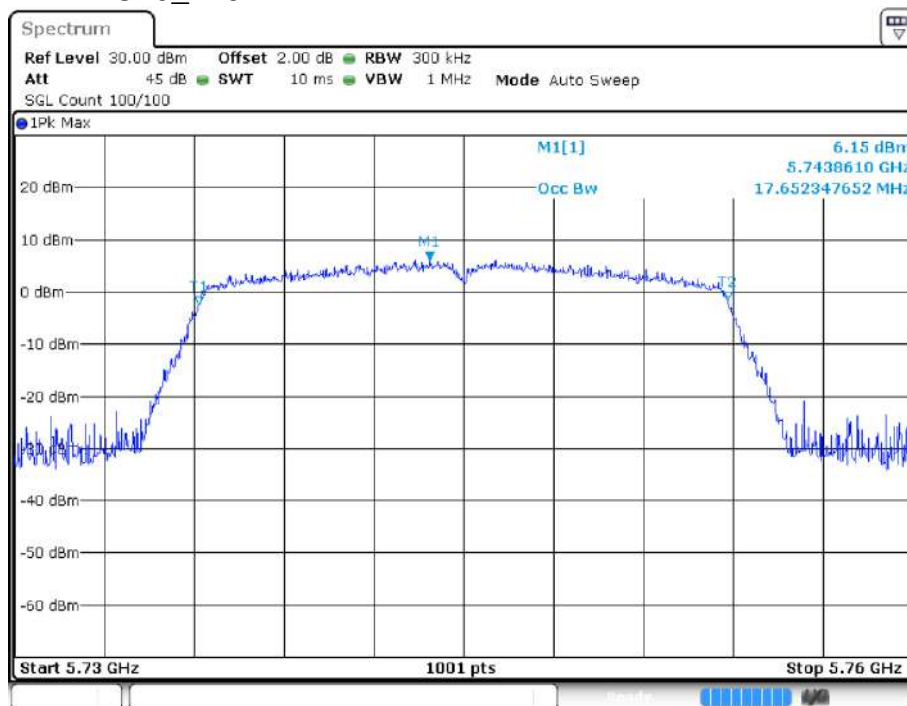
11AC20_144 ANT 1



Date: 14.DEC.2019 03:47:58

4.5.2.35

11AC20_149 ANT 1

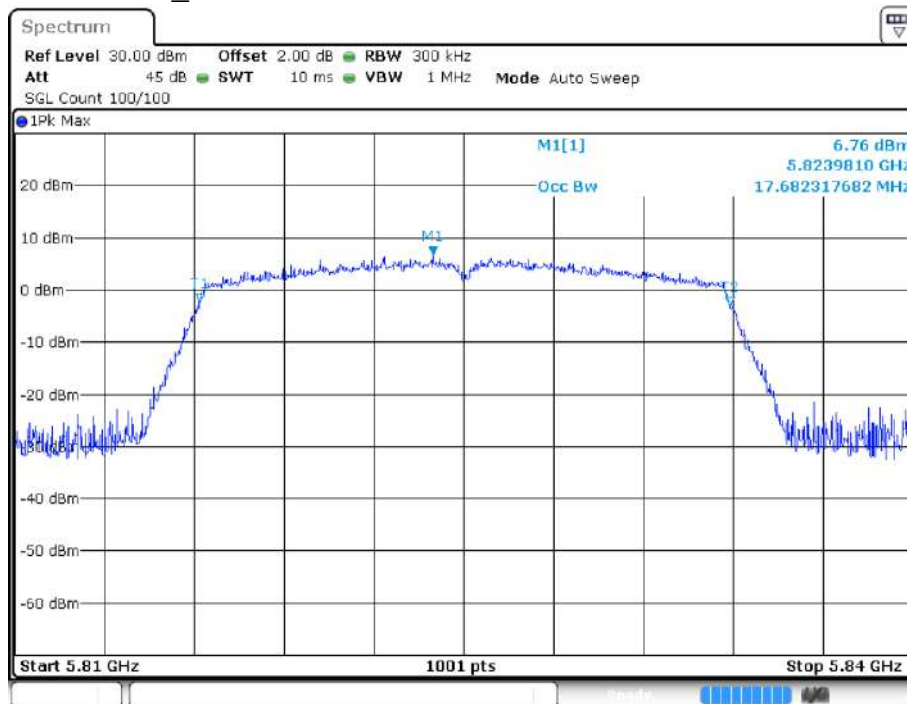


Date: 2.NOV.2019 00:58:53



4.5.2.36

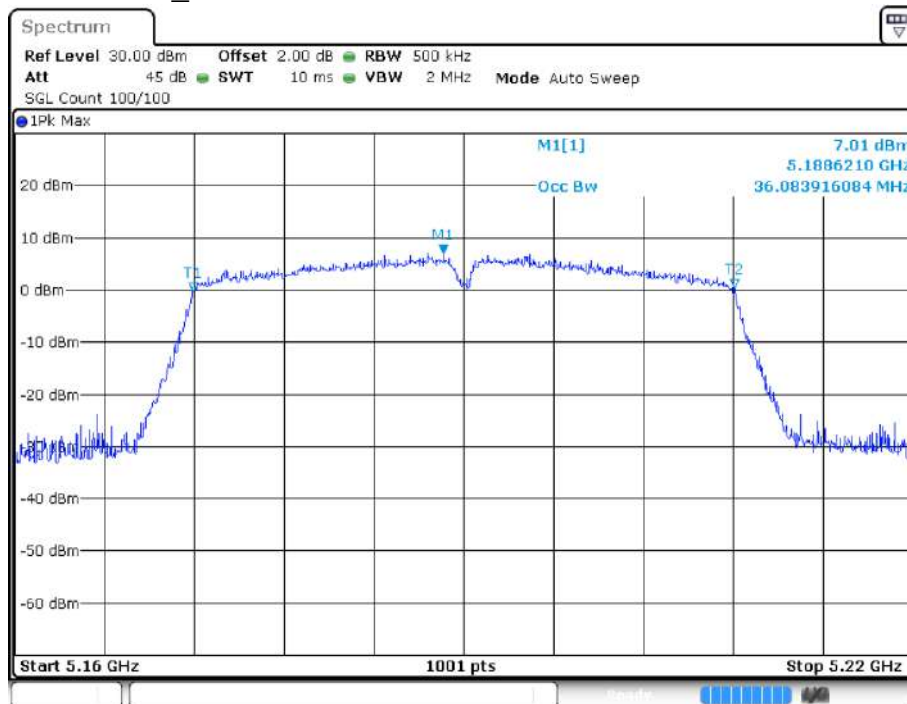
11AC20_165 ANT 1



Date: 2.NOV.2019 00:59:56

4.5.2.37

11AC40_38 ANT 1

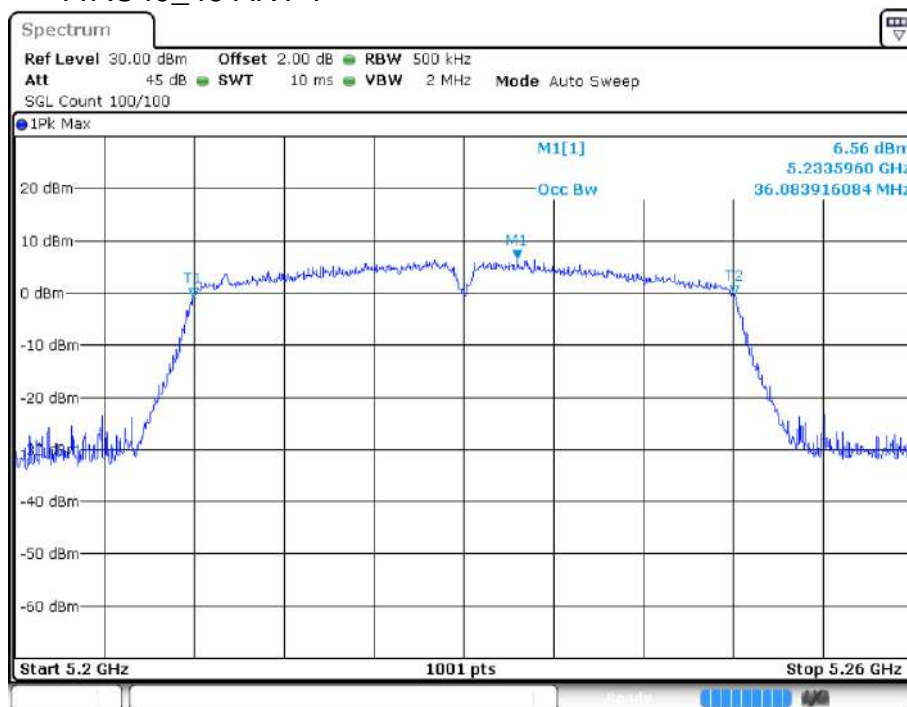


Date: 2.NOV.2019 04:39:44



4.5.2.38

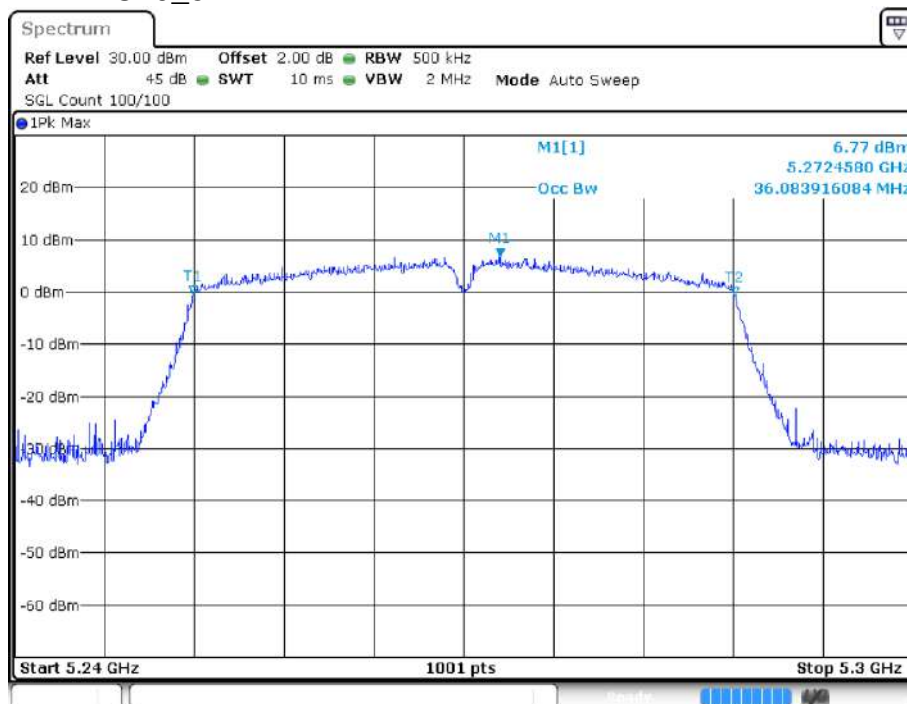
11AC40_46 ANT 1



Date: 2.NOV.2019 04:40:44

4.5.2.39

11AC40_54 ANT 1

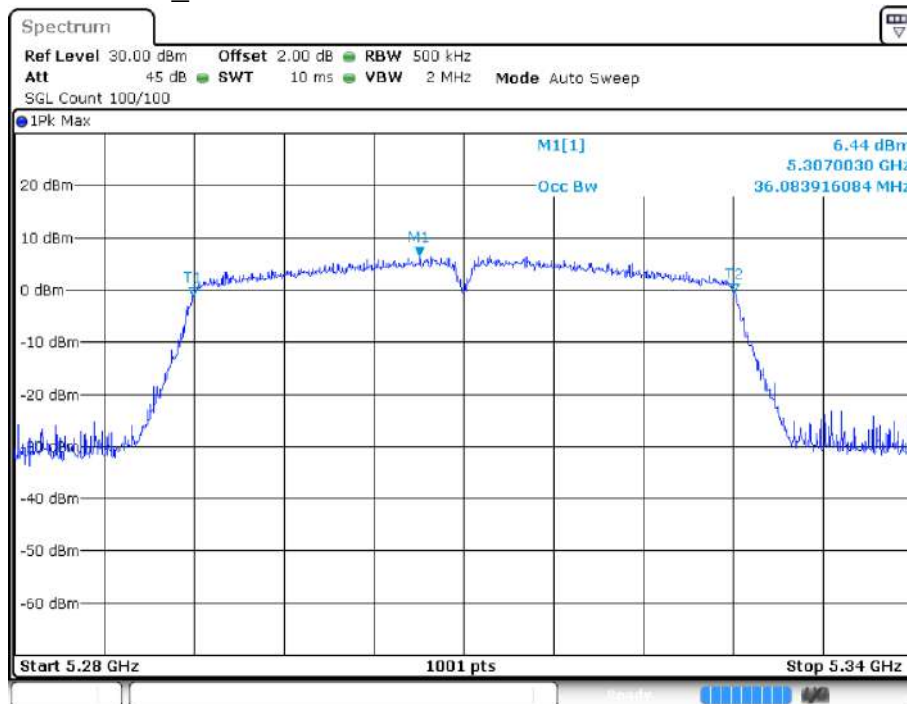


Date: 2.NOV.2019 04:41:56



4.5.2.40

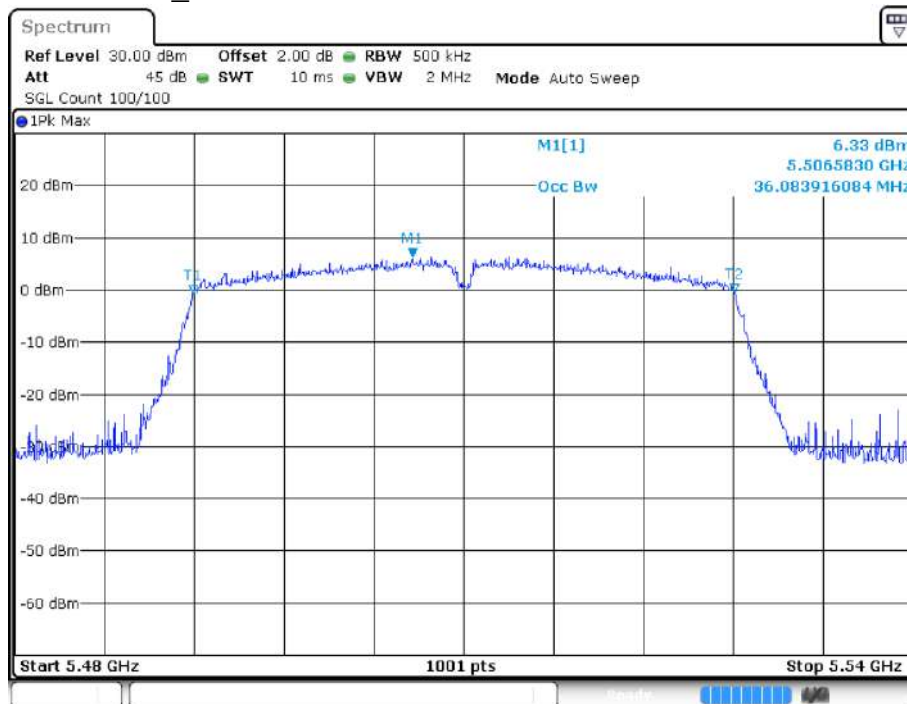
11AC40_62 ANT 1



Date: 2.NOV.2019 04:42:47

4.5.2.41

11AC40_102 ANT 1

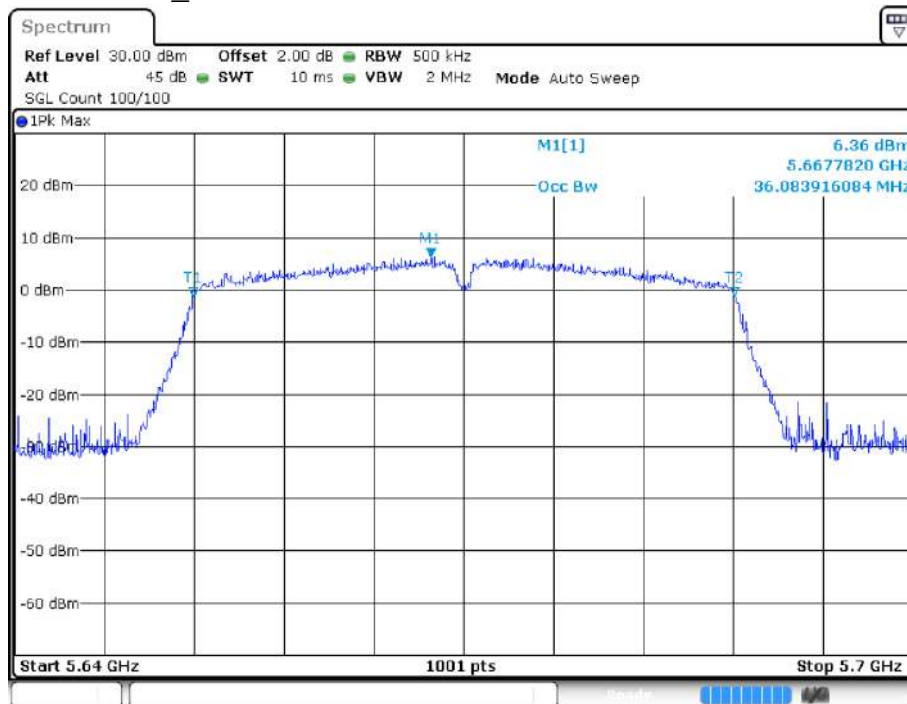


Date: 2.NOV.2019 04:44:46



4.5.2.42

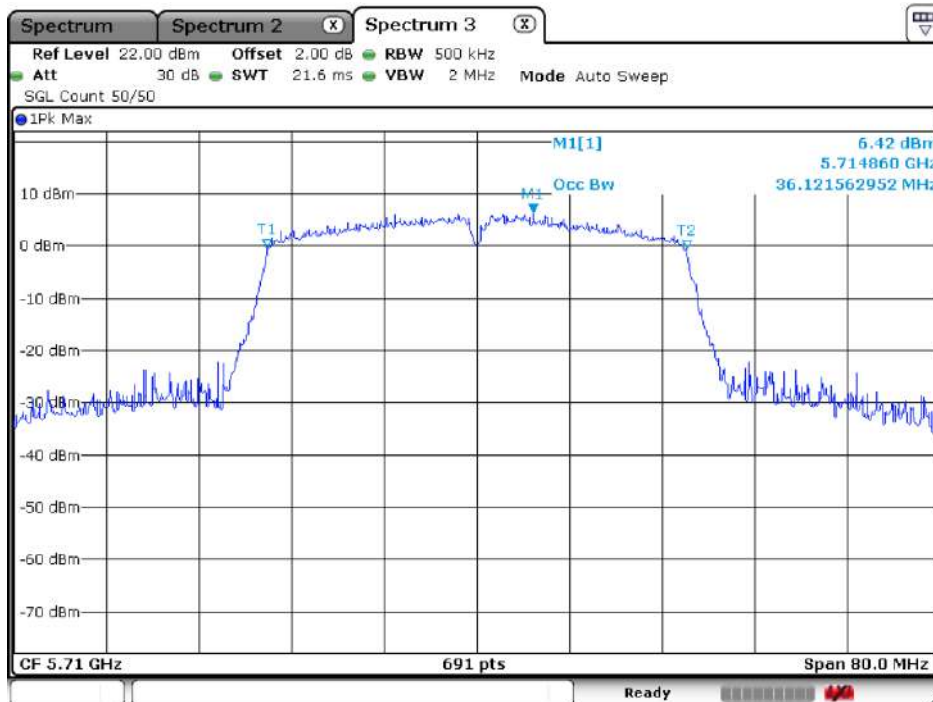
11AC40_134 ANT 1



Date: 2.NOV.2019 04:46:18

4.5.2.43

11AC40_142 ANT 1

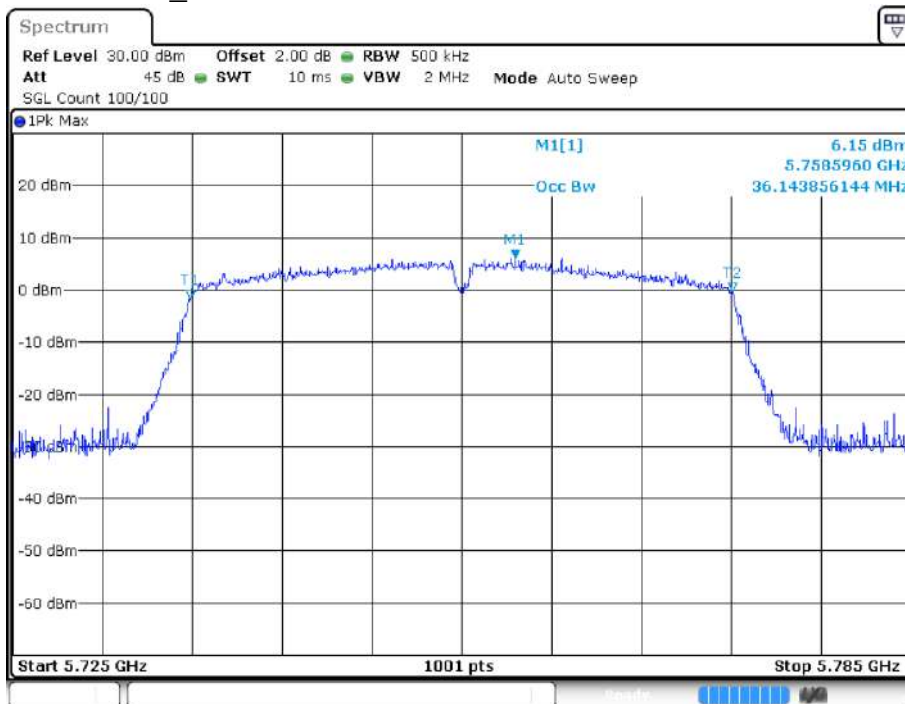


Date: 14.DEC.2019 05:57:21



4.5.2.44

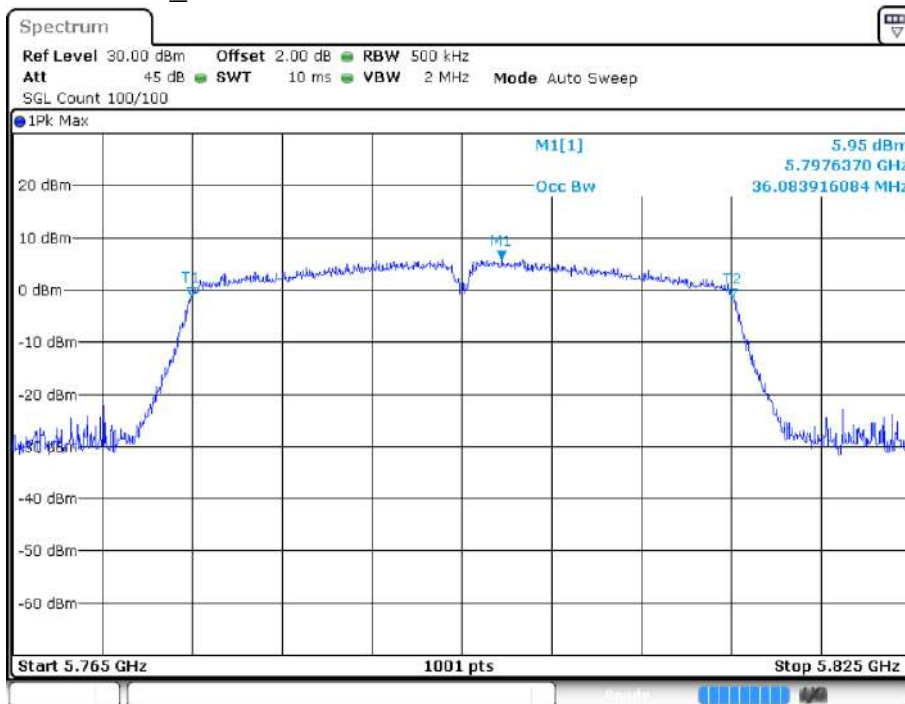
11AC40_151 ANT 1



Date: 2.NOV.2019 04:48:44

4.5.2.45

11AC40_159 ANT 1

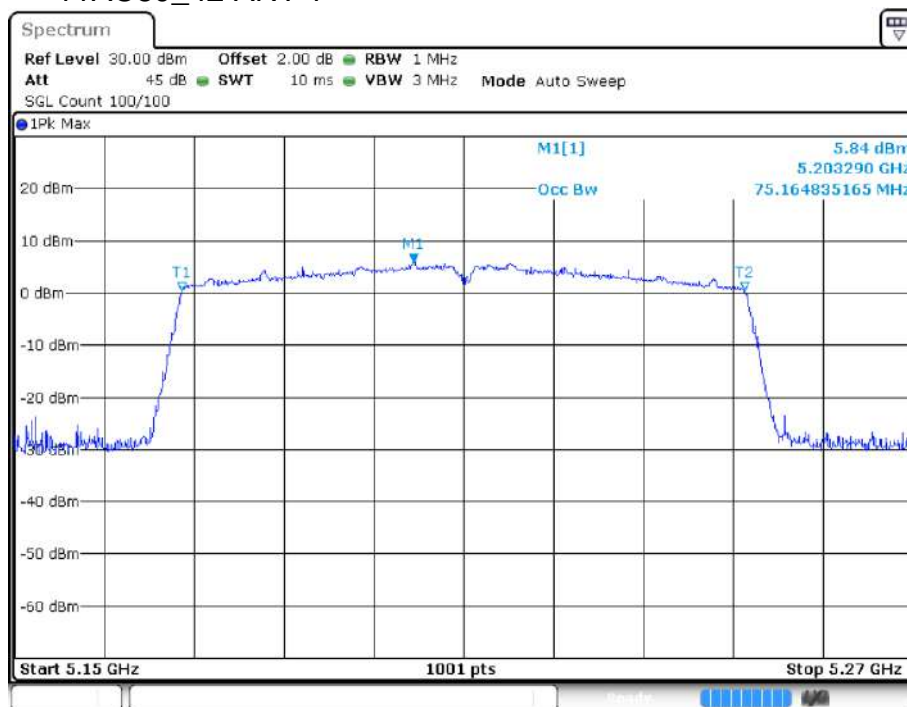


Date: 2.NOV.2019 04:49:49



4.5.2.46

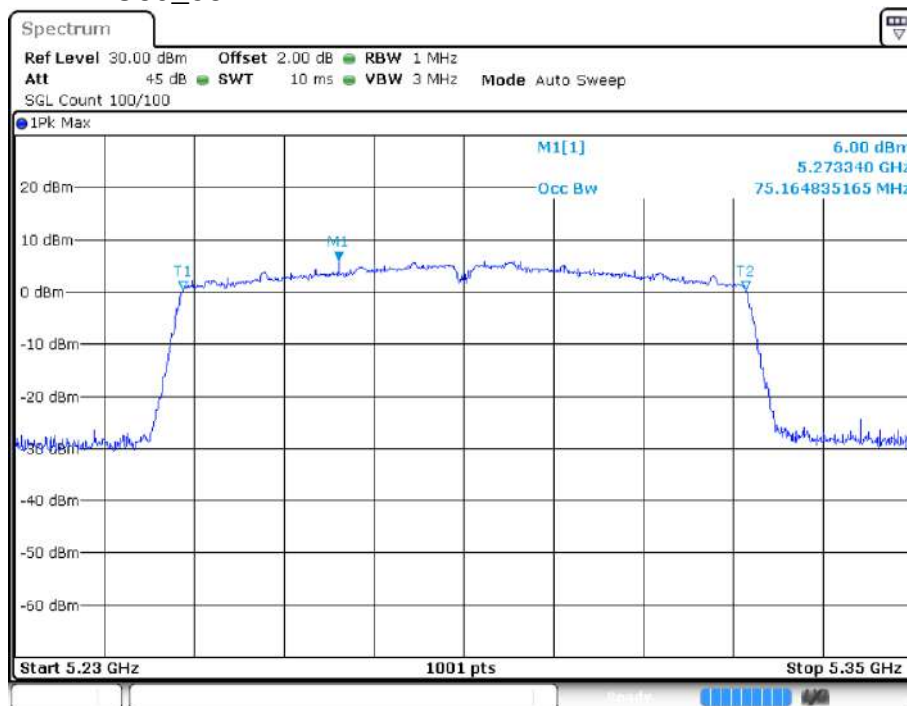
11AC80_42 ANT 1



Date: 2.NOV.2019 04:52:33

4.5.2.47

11AC80_58 ANT 1

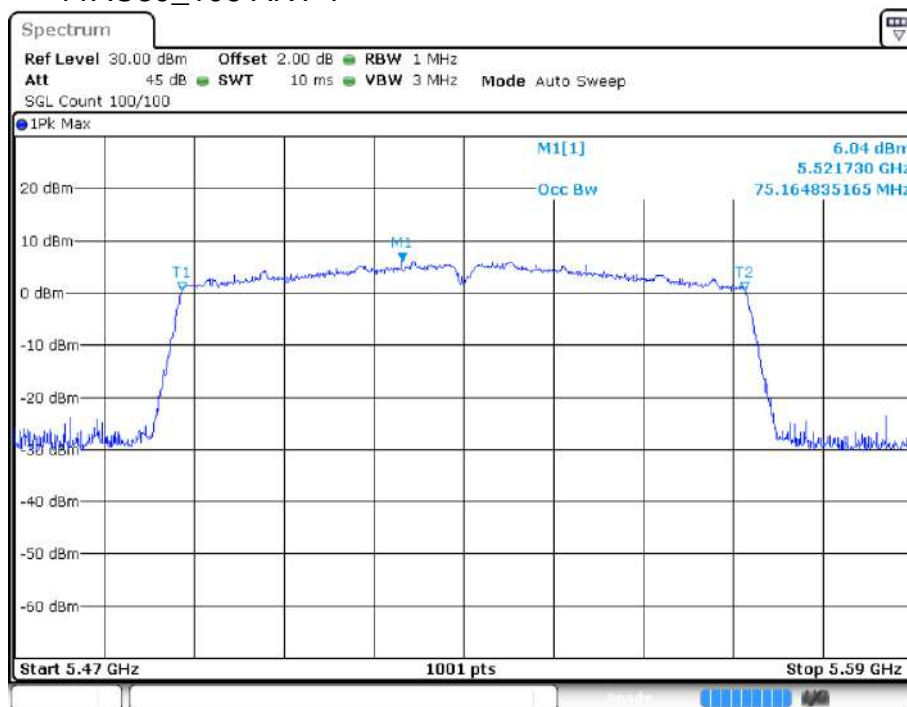


Date: 2.NOV.2019 04:54:01



4.5.2.48

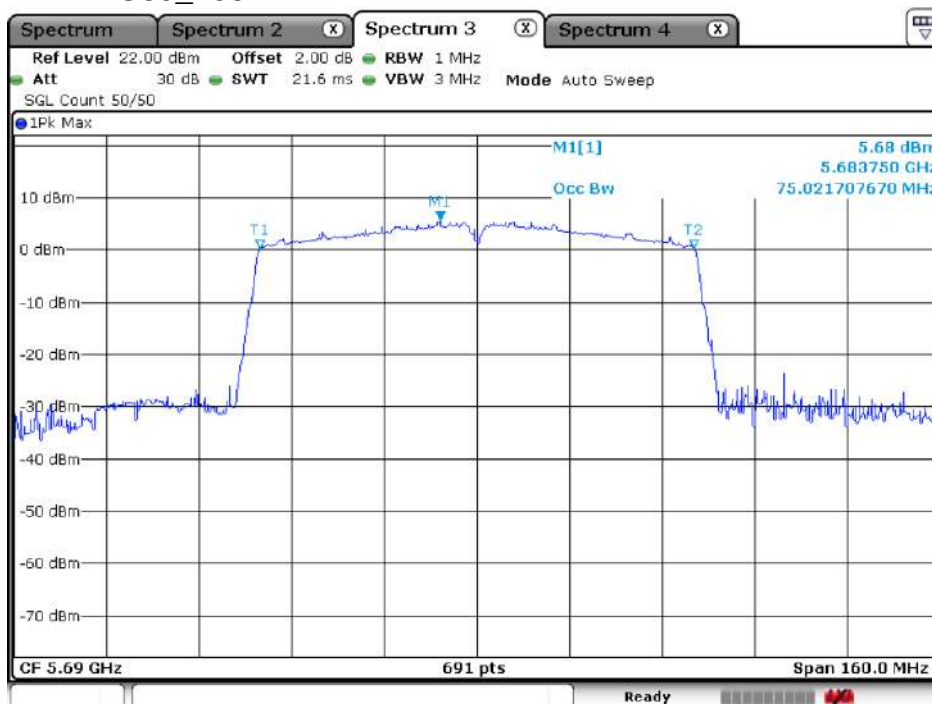
11AC80_106 ANT 1



Date: 2.NOV.2019 04:56:56

4.5.2.49

11AC80_138 ANT 1

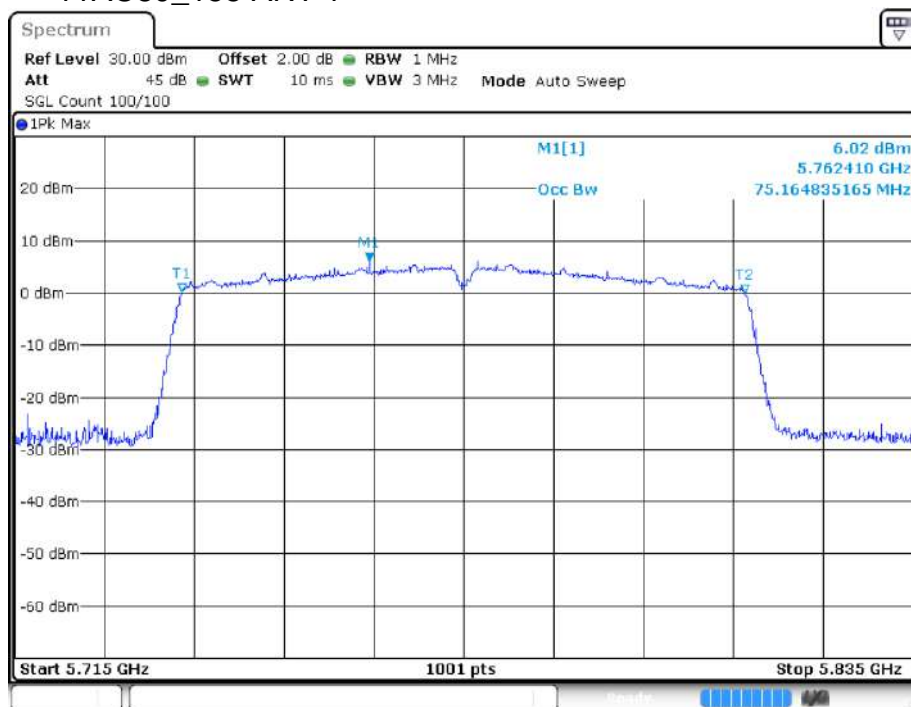


Date: 14.DEC.2019 06:12:21



4.5.2.50

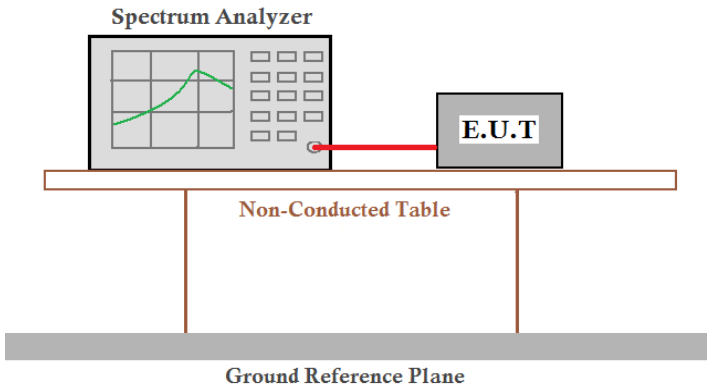
11AC80_155 ANT 1



Date: 2.NOV.2019 04:59:52



4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	<p>Through Pre-scan, find the</p> <p>6Mbps of rate is the worst case of 802.11a;</p> <p>MCS0 of rate is the worst case of 802.11n(HT20);</p> <p>MCS0 of rate is the worst case of 802.11n(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT20);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT40);</p> <p>MCS0 of rate is the worst case of 802.11ac(HT80).</p> <p>Only the worst case is recorded in the report.</p>	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	



4.6.1 Test Results For Power Density

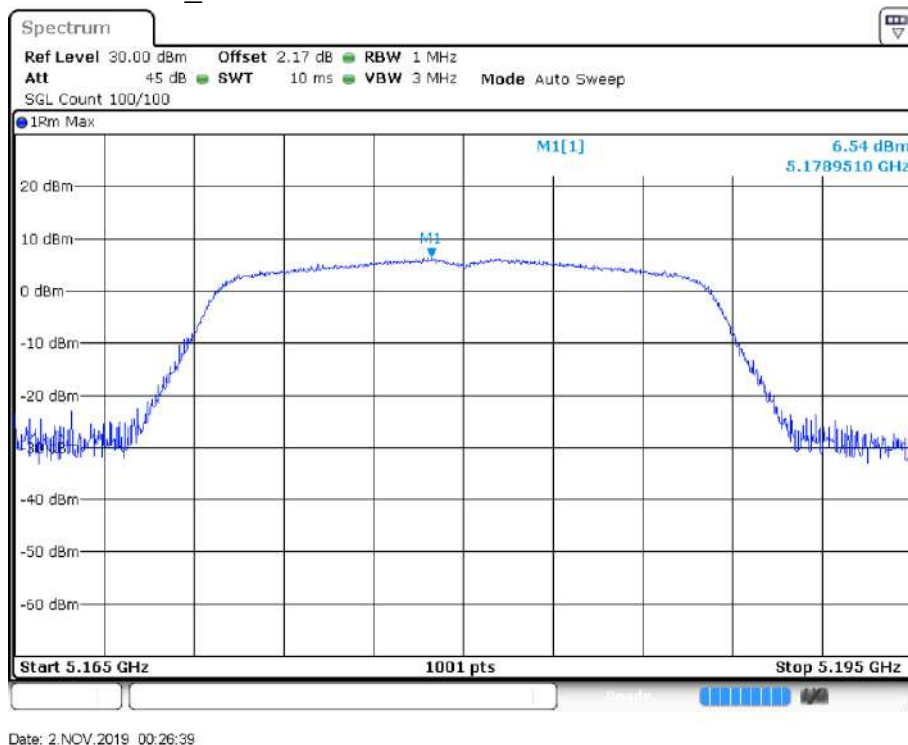
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.)	Unit	Verdict
11A20	36	5180	ANT 1	6.54	dBm/MHz	PASS
	48	5240	ANT 1	6.31	dBm/MHz	PASS
	52	5260	ANT 1	6.43	dBm/MHz	PASS
	64	5320	ANT 1	6.09	dBm/MHz	PASS
	100	5500	ANT 1	6.36	dBm/MHz	PASS
	140	5700	ANT 1	5.64	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	5.29	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	0.29	dBm/500KHz	PASS
	149	5745	ANT 1	4.26	dBm/500KHz	PASS
	165	5825	ANT 1	4.16	dBm/500KHz	PASS
11N20	36	5180	ANT 1	6.32	dBm/MHz	PASS
	48	5240	ANT 1	6.04	dBm/MHz	PASS
	52	5260	ANT 1	5.52	dBm/MHz	PASS
	64	5320	ANT 1	6.17	dBm/MHz	PASS
	100	5500	ANT 1	5.48	dBm/MHz	PASS
	140	5700	ANT 1	5.54	dBm/MHz	PASS
	144(BandII-C)	5720	ANT 1	4.89	dBm/MHz	PASS
	144(BandIII)	5720	ANT 1	0.53	dBm/500KHz	PASS
	149	5745	ANT 1	4.28	dBm/500KHz	PASS
	165	5825	ANT 1	4.21	dBm/500KHz	PASS
11N40	38	5190	ANT 1	3	dBm/MHz	PASS
	46	5230	ANT 1	2.36	dBm/MHz	PASS
	54	5270	ANT 1	2.17	dBm/MHz	PASS
	62	5310	ANT 1	2.44	dBm/MHz	PASS
	102	5510	ANT 1	2.32	dBm/MHz	PASS
	134	5670	ANT 1	2.25	dBm/MHz	PASS
	144(BandII-C)	5710	ANT 1	1.62	dBm/MHz	PASS
	144(BandIII)	5710	ANT 1	-4.62	dBm/500KHz	PASS
	151	5755	ANT 1	1.14	dBm/500KHz	PASS
	159	5795	ANT 1	0.63	dBm/500KHz	PASS
11AC20	36	5180	ANT 1	6.23	dBm/MHz	PASS
	48	5240	ANT 1	5.78	dBm/MHz	PASS
	52	5260	ANT 1	5.69	dBm/MHz	PASS
	64	5320	ANT 1	6.16	dBm/MHz	PASS
	100	5500	ANT 1	5.85	dBm/MHz	PASS
	140	5700	ANT 1	5.43	dBm/MHz	PASS
	142(BandII-C)	5720	ANT 1	4.88	dBm/MHz	PASS
	142(BandIII)	5720	ANT 1	0.56	dBm/500KHz	PASS
	149	5745	ANT 1	4.12	dBm/500KHz	PASS
	165	5825	ANT 1	4.14	dBm/500KHz	PASS
11AC40	38	5190	ANT 1	3.58	dBm/MHz	PASS
	46	5230	ANT 1	3.28	dBm/MHz	PASS



	54	5270	ANT 1	3.41	dBm/MHz	PASS
	62	5310	ANT 1	3.47	dBm/MHz	PASS
	102	5510	ANT 1	3.44	dBm/MHz	PASS
	134	5670	ANT 1	3.11	dBm/MHz	PASS
	142(BandII-C)	5710	ANT 1	4.88	dBm/MHz	PASS
	142(BandIII)	5710	ANT 1	0.56	dBm/500KHz	PASS
	151	5755	ANT 1	1.75	dBm/500KHz	PASS
	159	5795	ANT 1	1.61	dBm/500KHz	PASS
11AC80	42	5210	ANT 1	-0.34	dBm/MHz	PASS
	58	5290	ANT 1	-0.68	dBm/MHz	PASS
	106	5530	ANT 1	-0.3	dBm/MHz	PASS
	138(BandII-C)	5690	ANT 1	-2.75	dBm/MHz	PASS
	138(BandIII)	5690	ANT 1	-9.22	dBm/500KHz	PASS
	155	5775	ANT 1	-2.14	dBm/500KHz	PASS

4.6.2 Test plots For Power Density

4.6.2.1 11A20_36 ANT 1



Date: 2 NOV. 2019 00:26:39



4.6.2.2

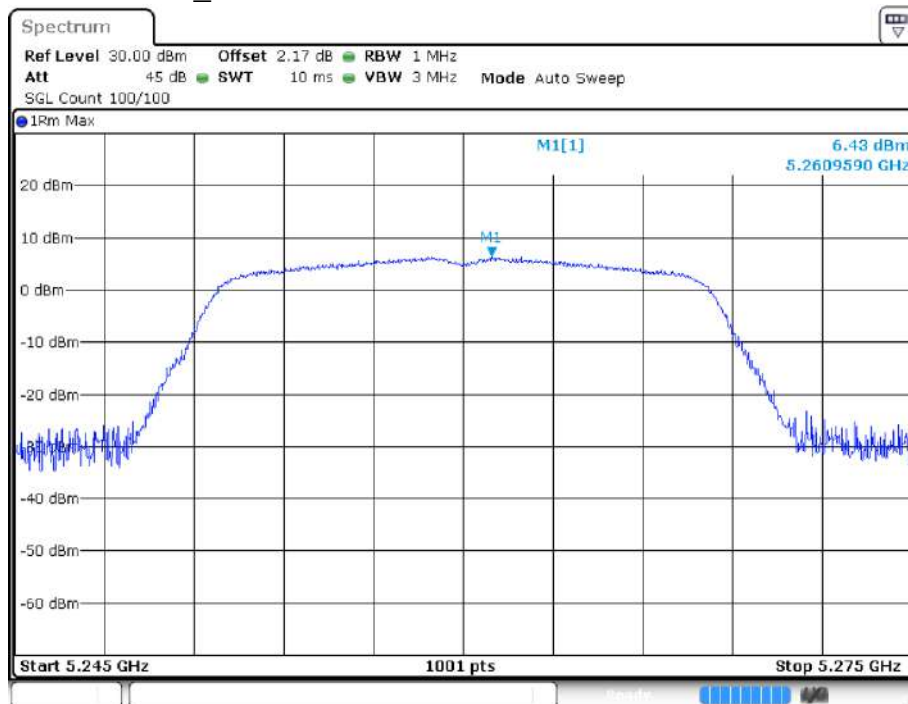
11A20_48 ANT 1



Date: 2.NOV.2019 00:27:47

4.6.2.3

11A20_52 ANT 1



Date: 2.NOV.2019 00:28:56



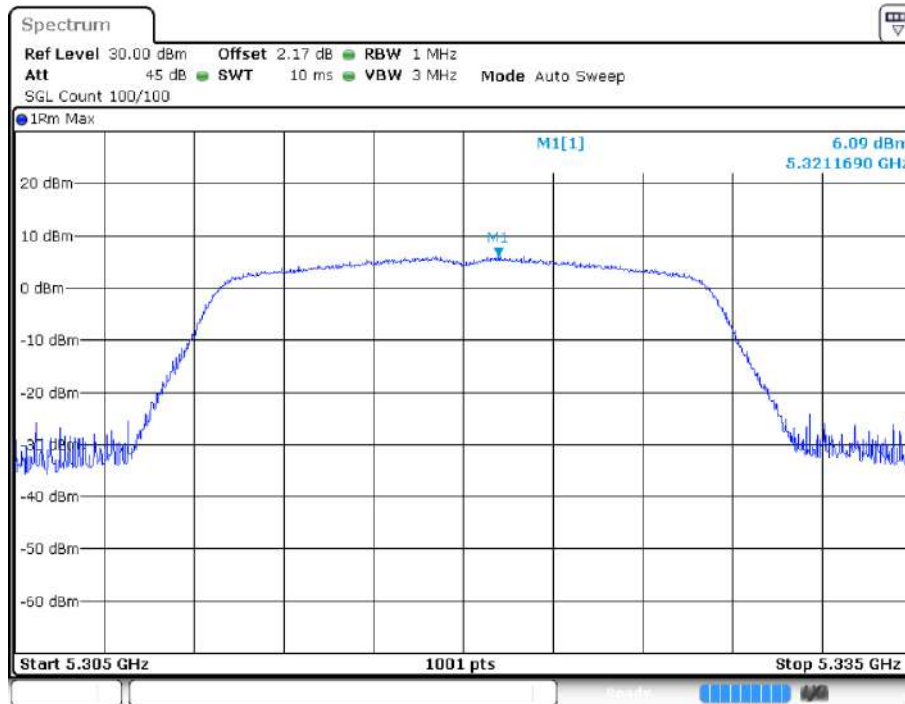
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4.6.2.4

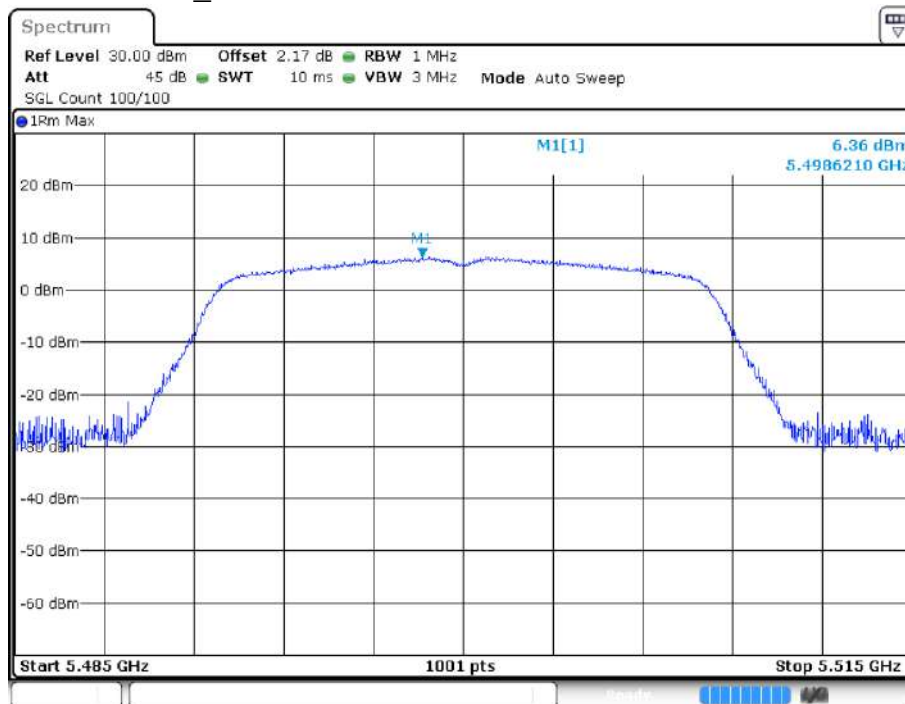
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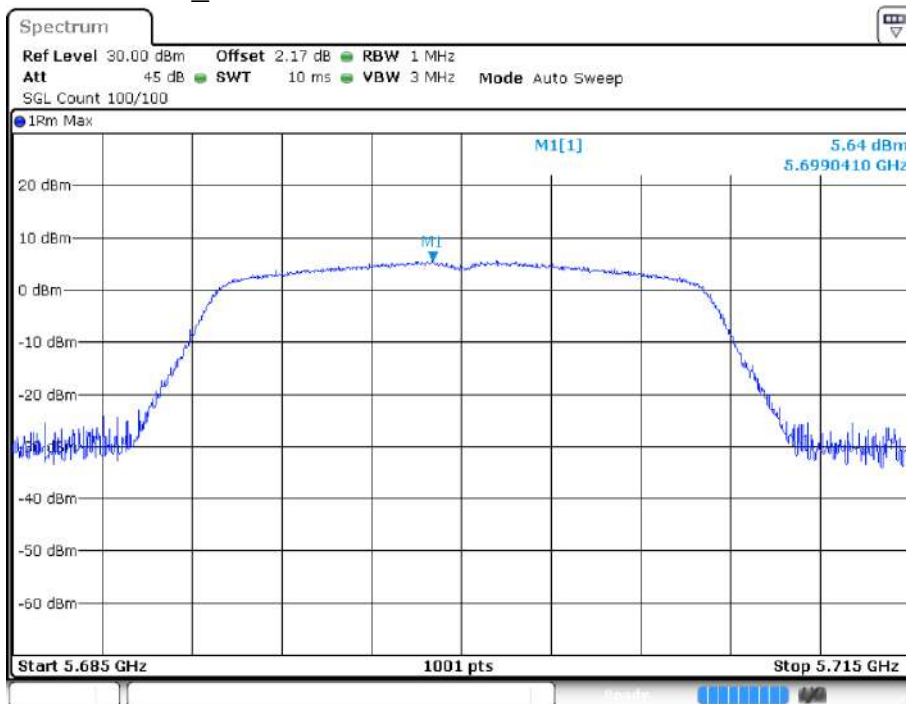


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4.6.2.6

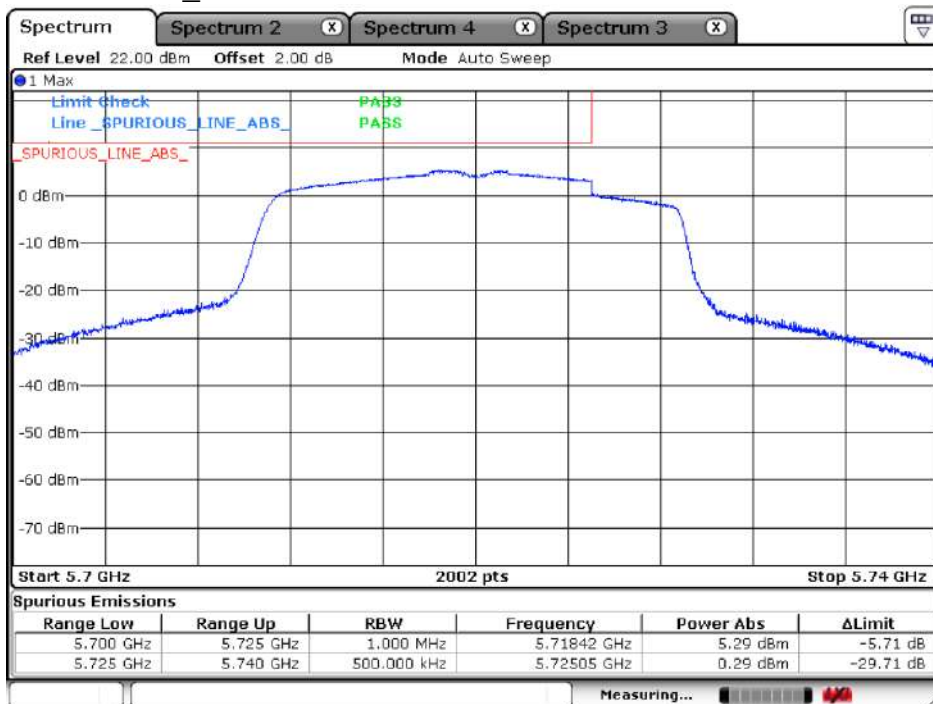
11A20_140 ANT 1



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11A20_144 ANT 1

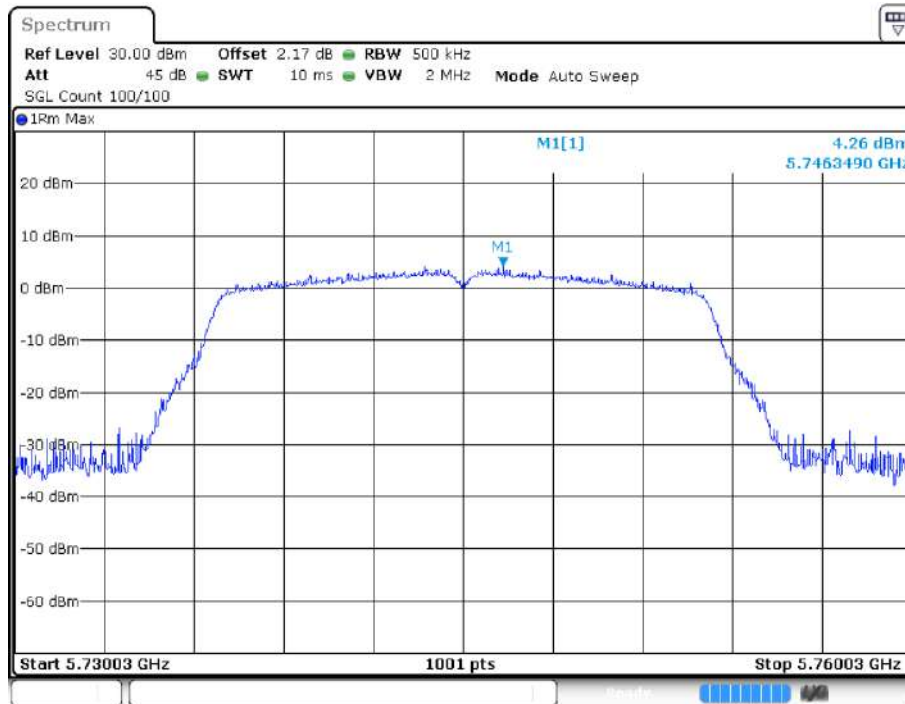


Date: 14.DEC.2019 03:39:06



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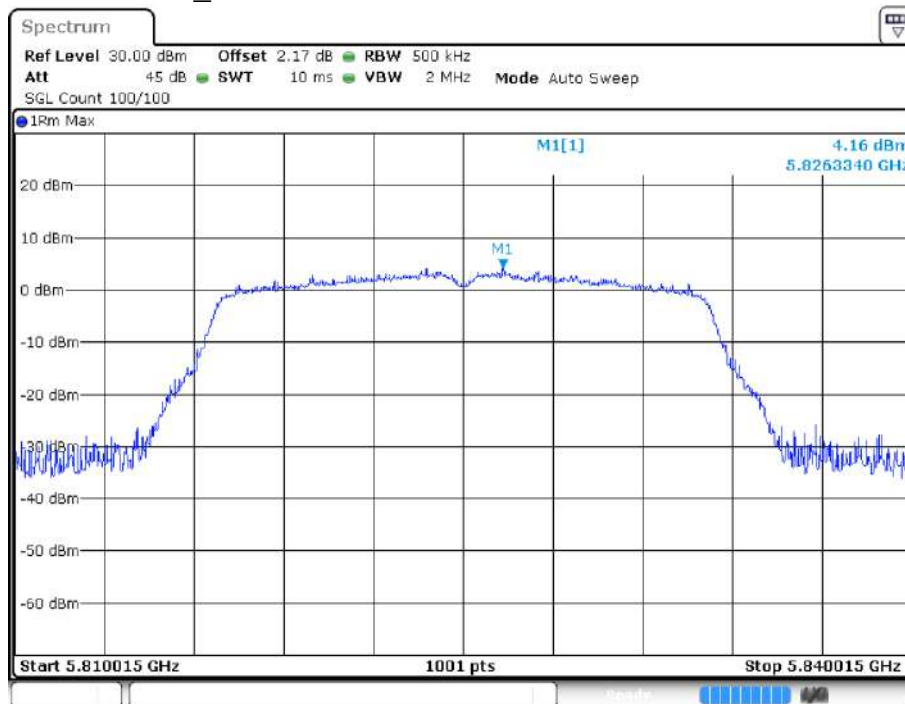
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11A20_165 ANT 1

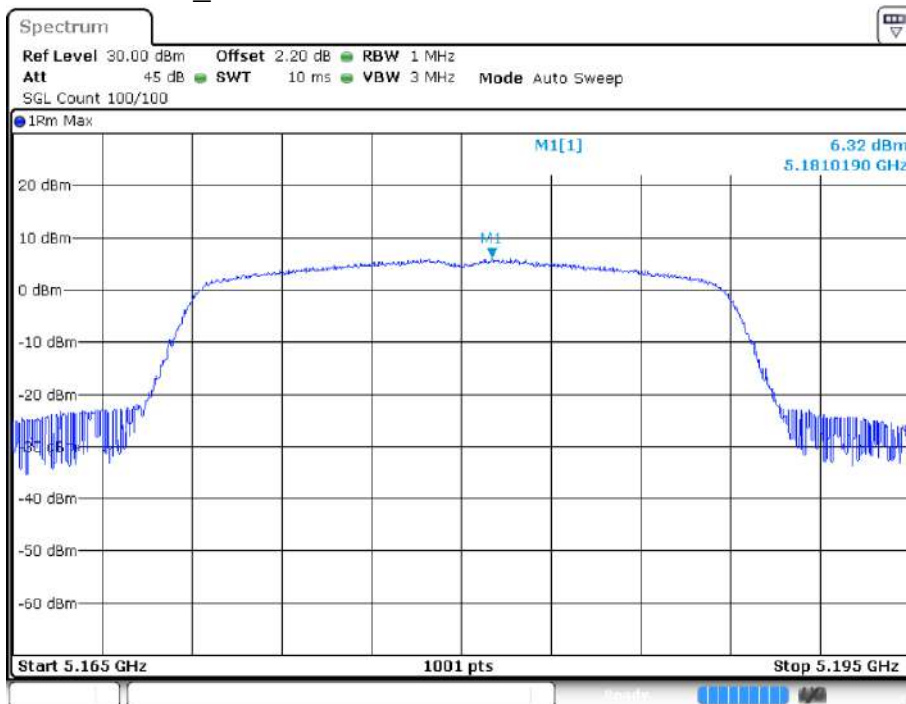


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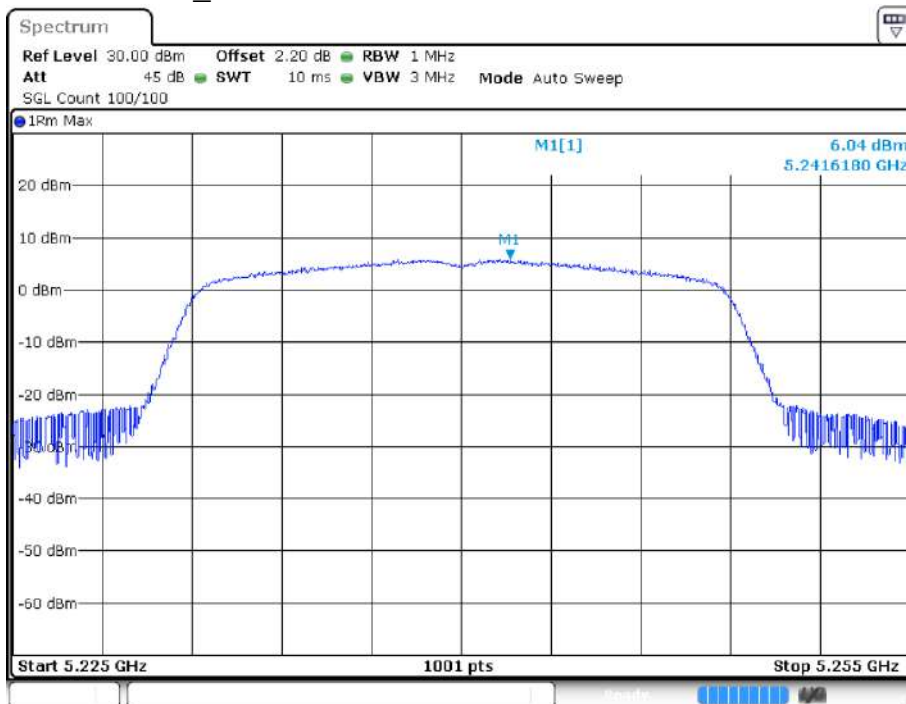
11N20_36 ANT 1



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4.6.2.11

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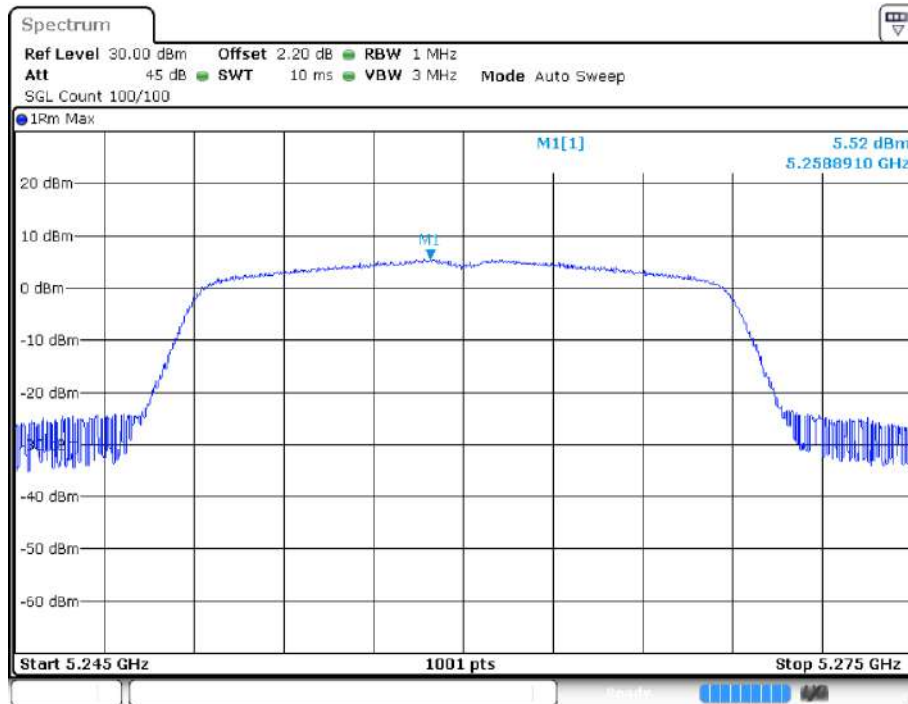


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4.6.2.13

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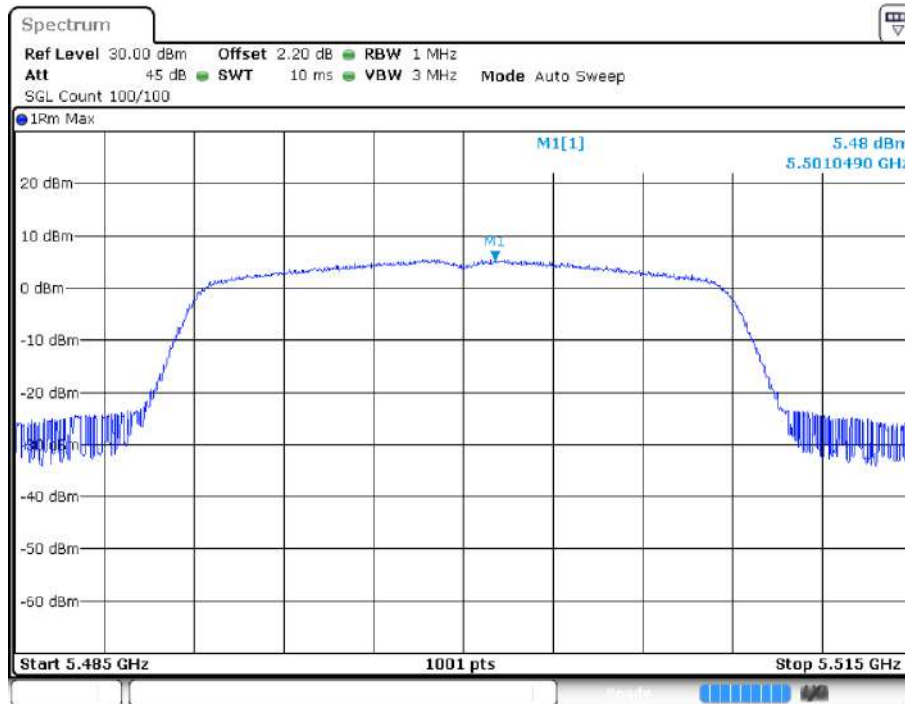


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4.6.2.14

11N20_100 ANT 1



Date: 2.NOV.2019 00:43:57

4.6.2.15

11N20_140 ANT 1

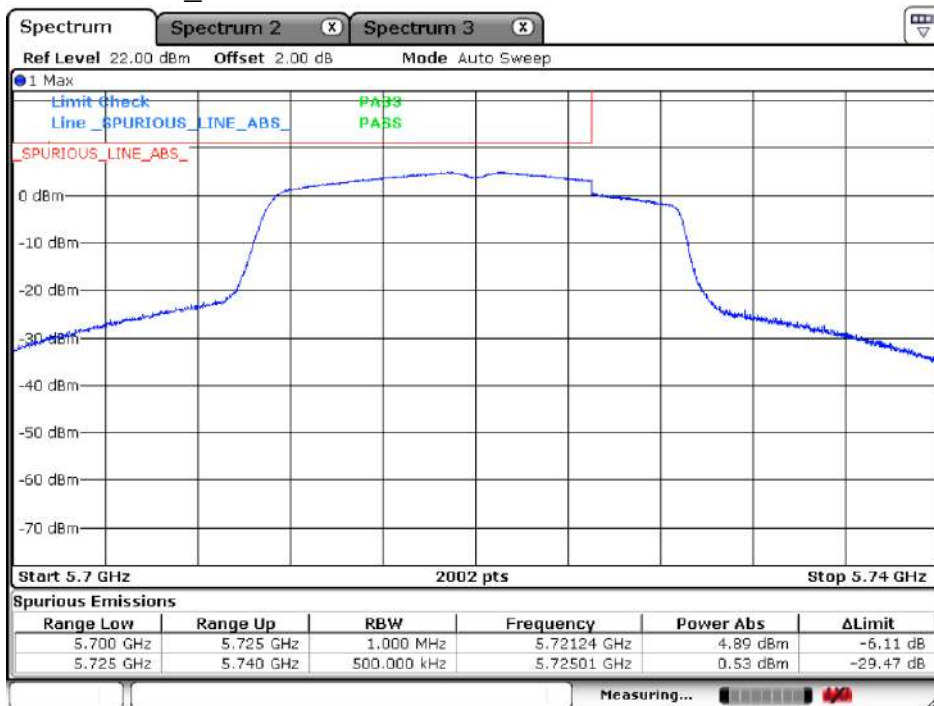


Date: 2.NOV.2019 00:44:52



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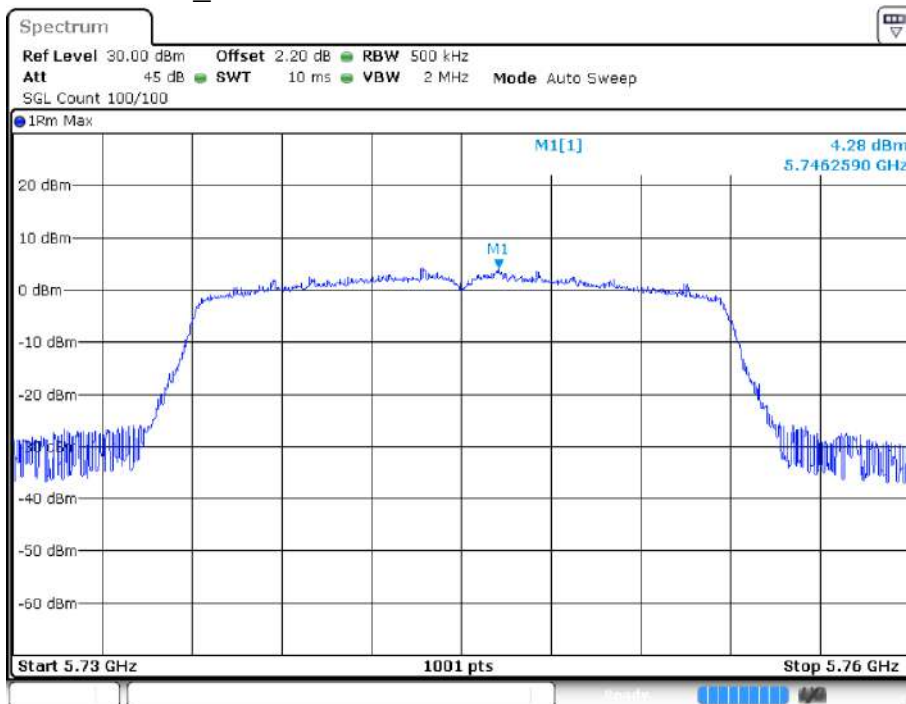
11N20_144 ANT 1



Date: 14.DEC.2019 03:44:31

4.6.2.17

11N20_149 ANT 1

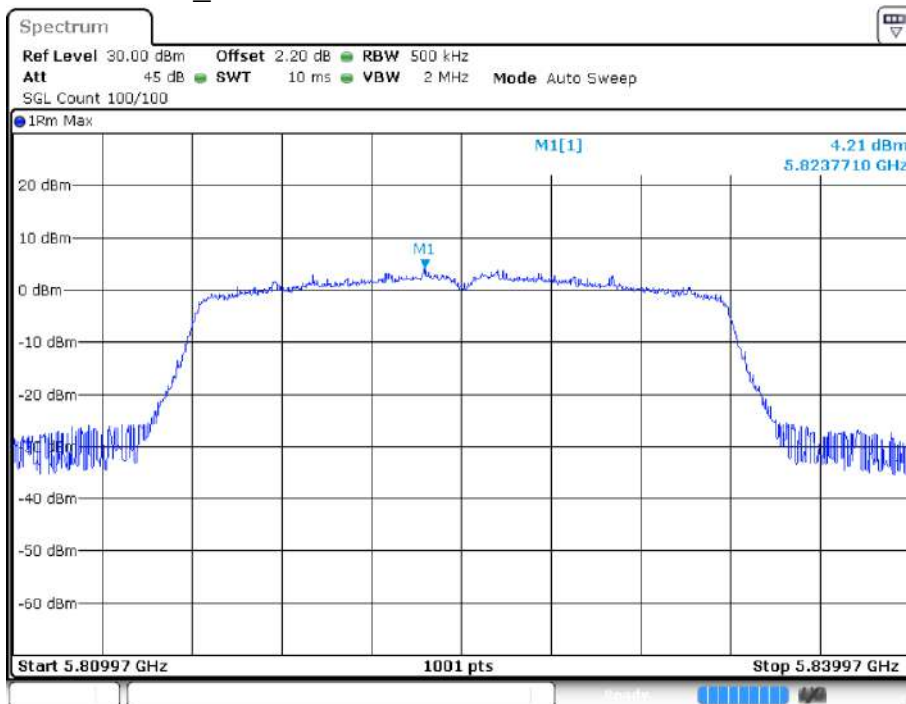


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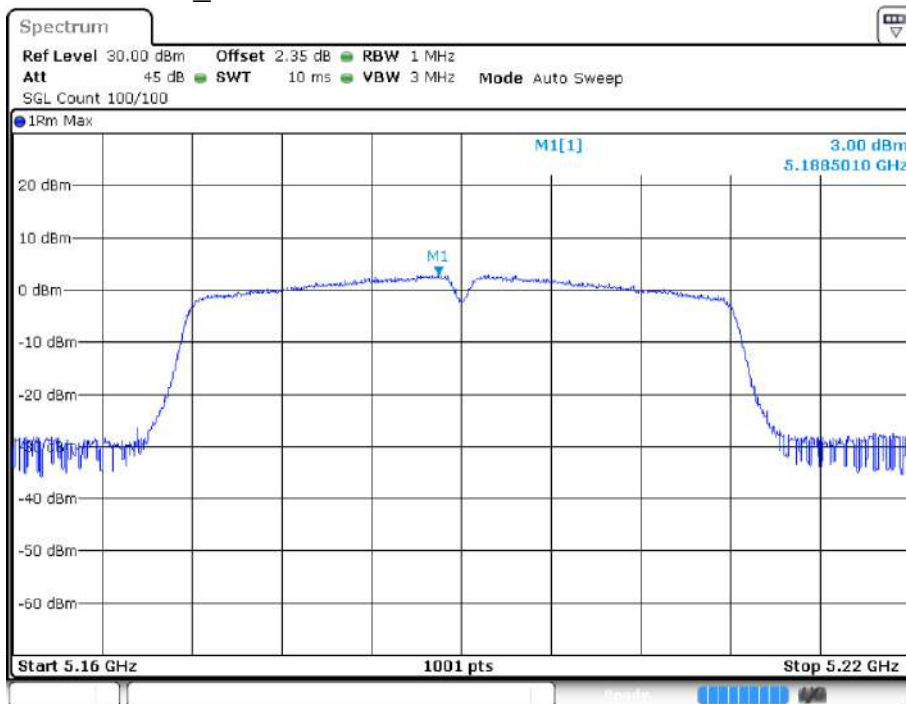
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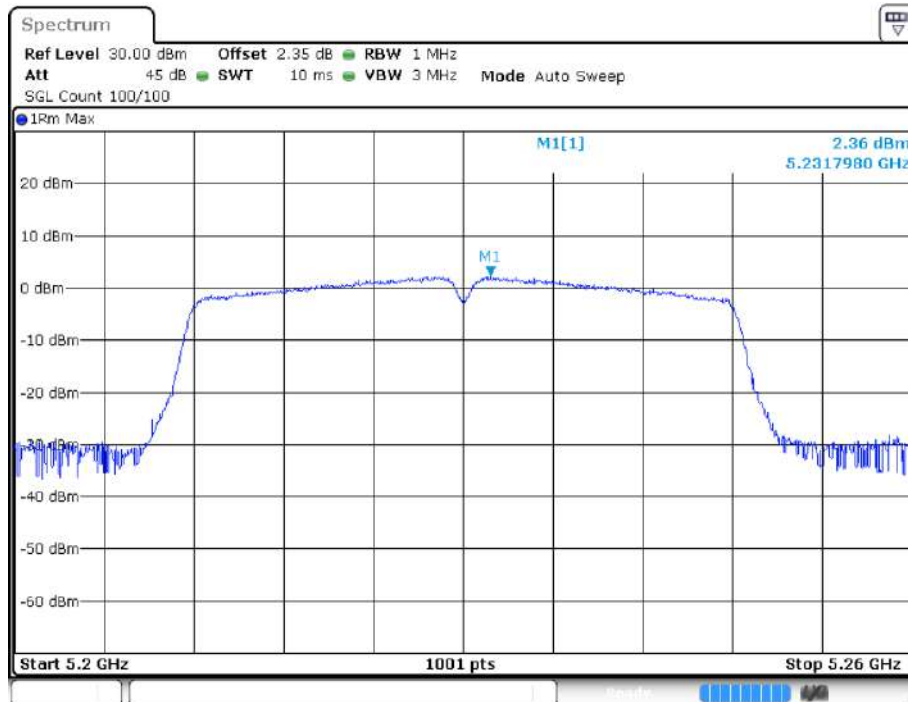


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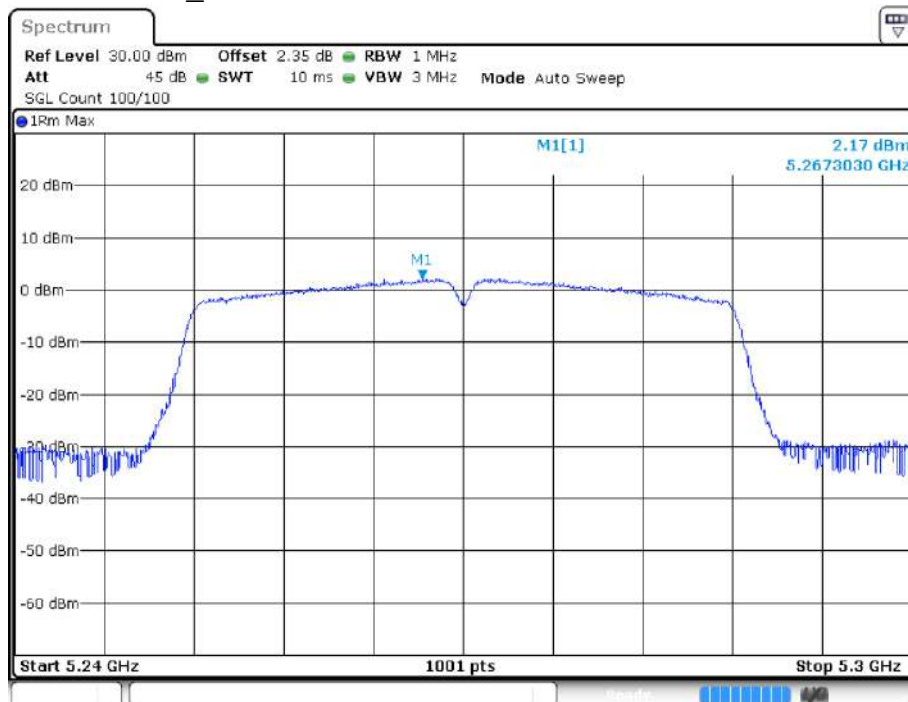
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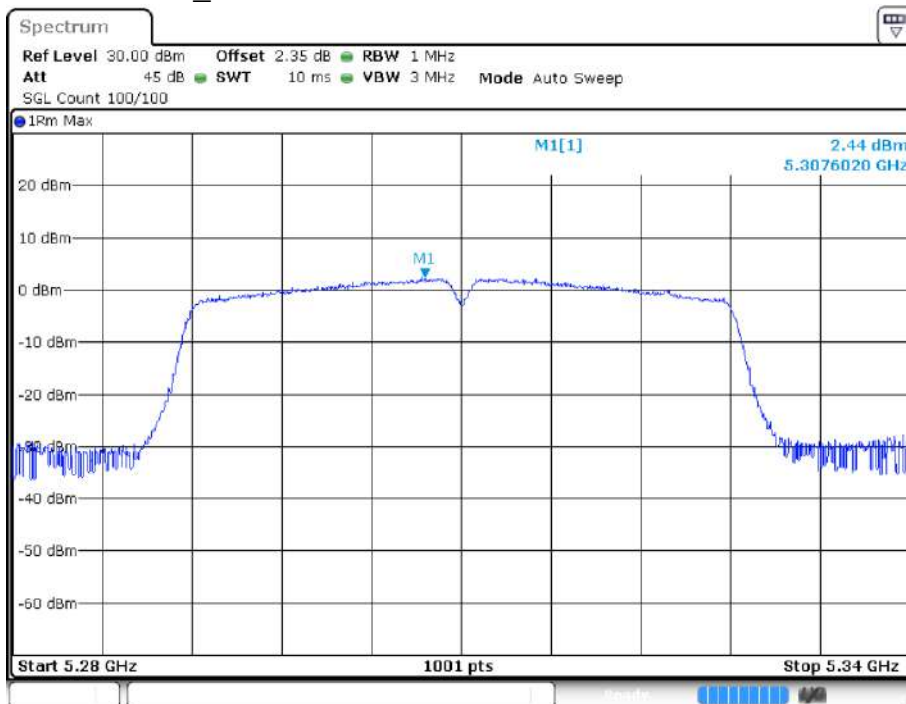


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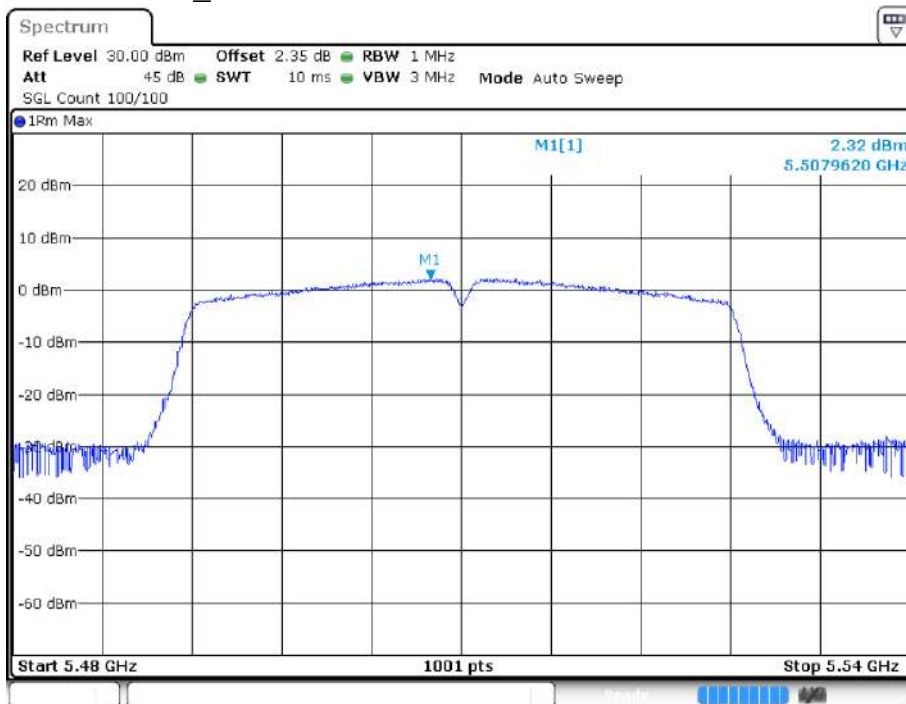
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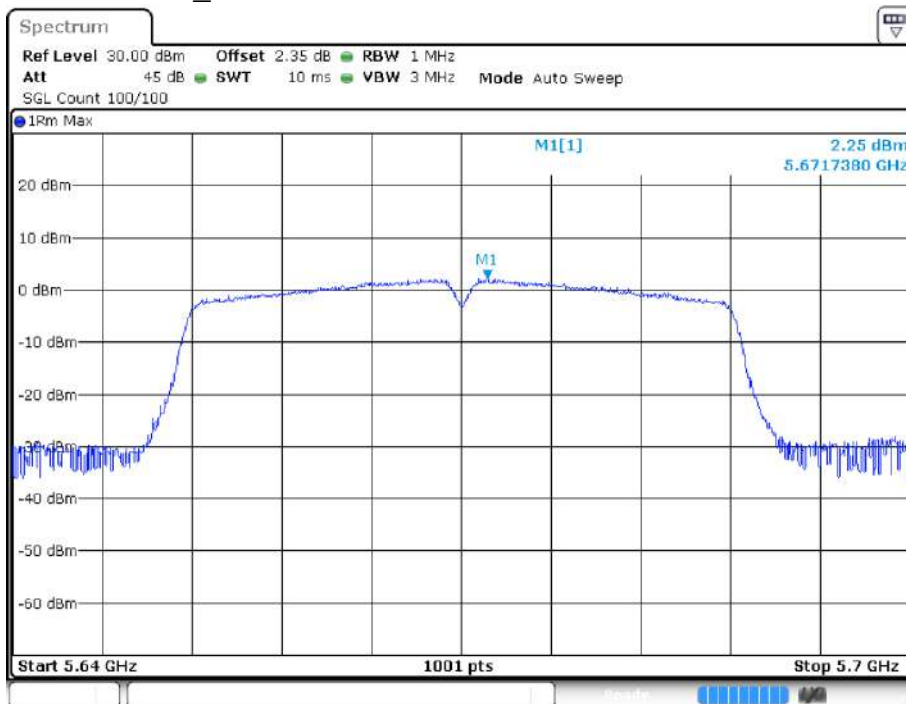


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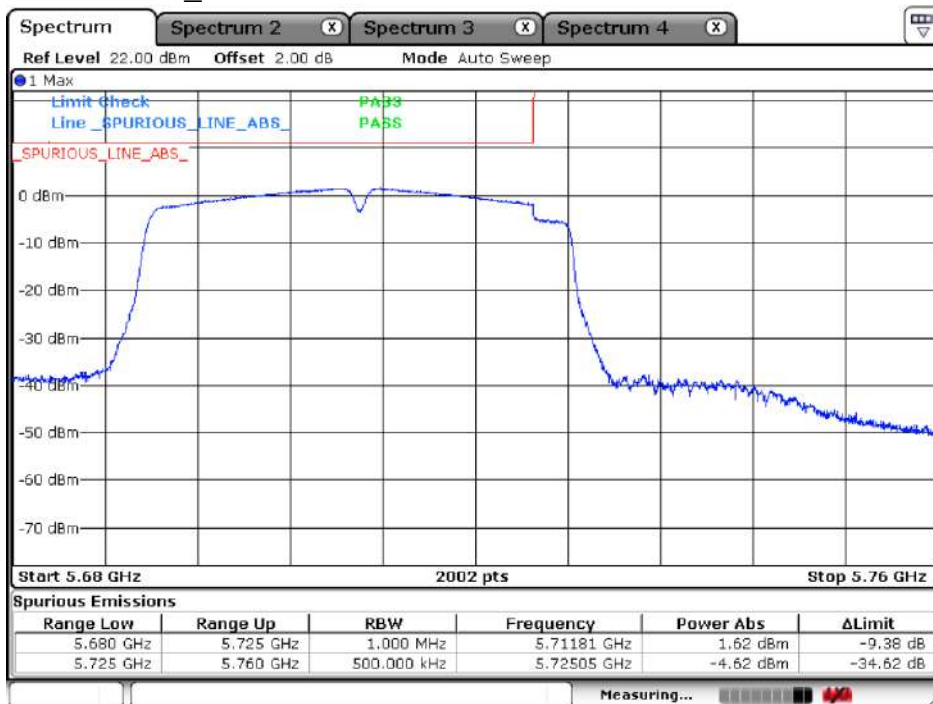
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4.6.2.25

11N40_142 ANT 1

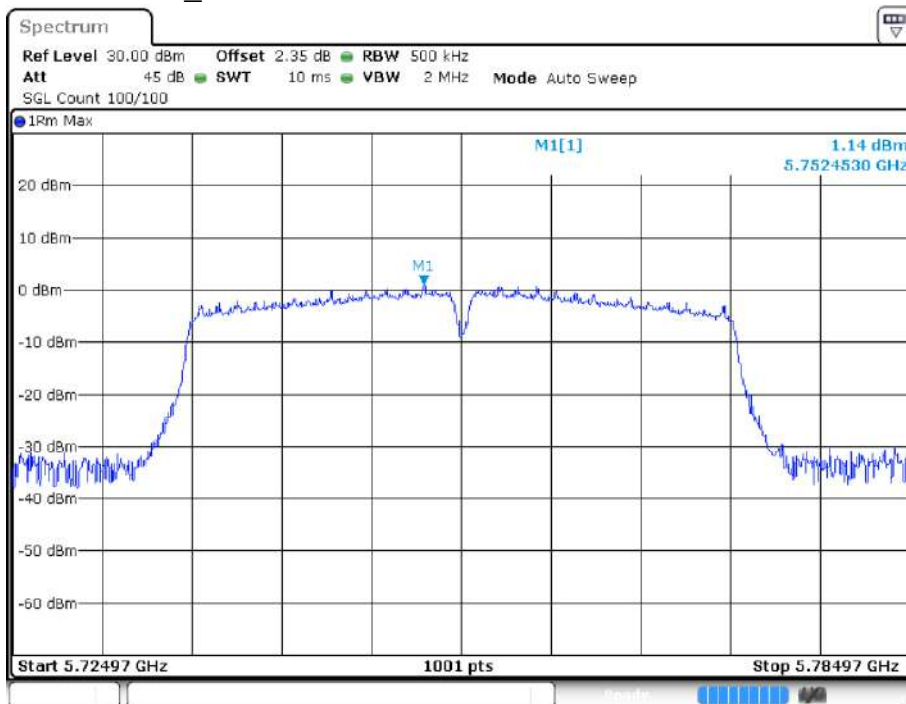


Date: 14.DEC.2019 06:07:45



4.6.2.26

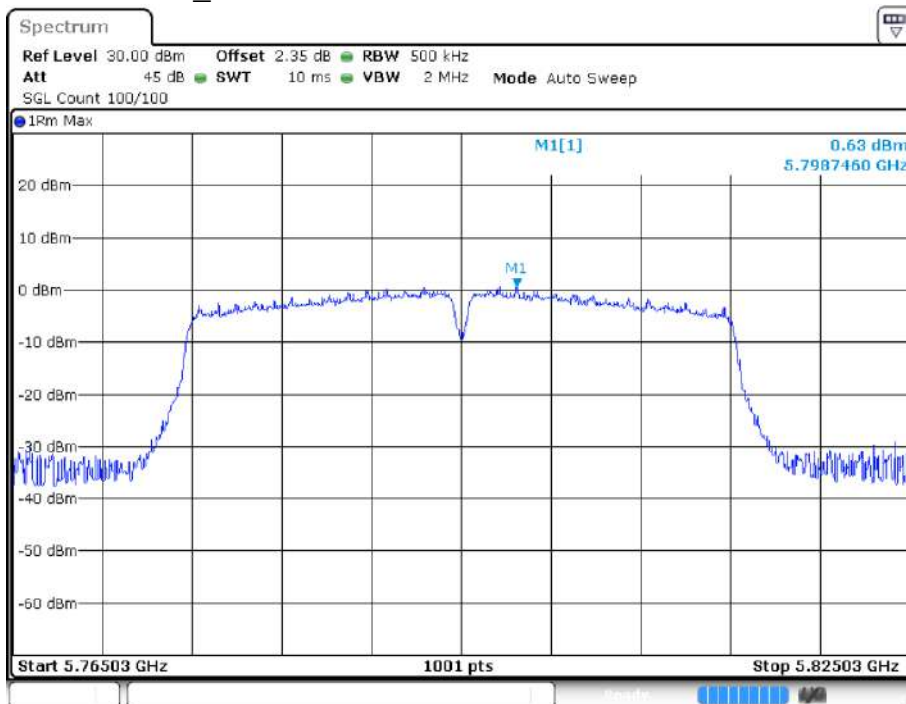
11N40_151 ANT 1



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4.6.2.27

11N40_159 ANT 1



Date: 2.NOV.2019 01:15:26



4.6.2.28

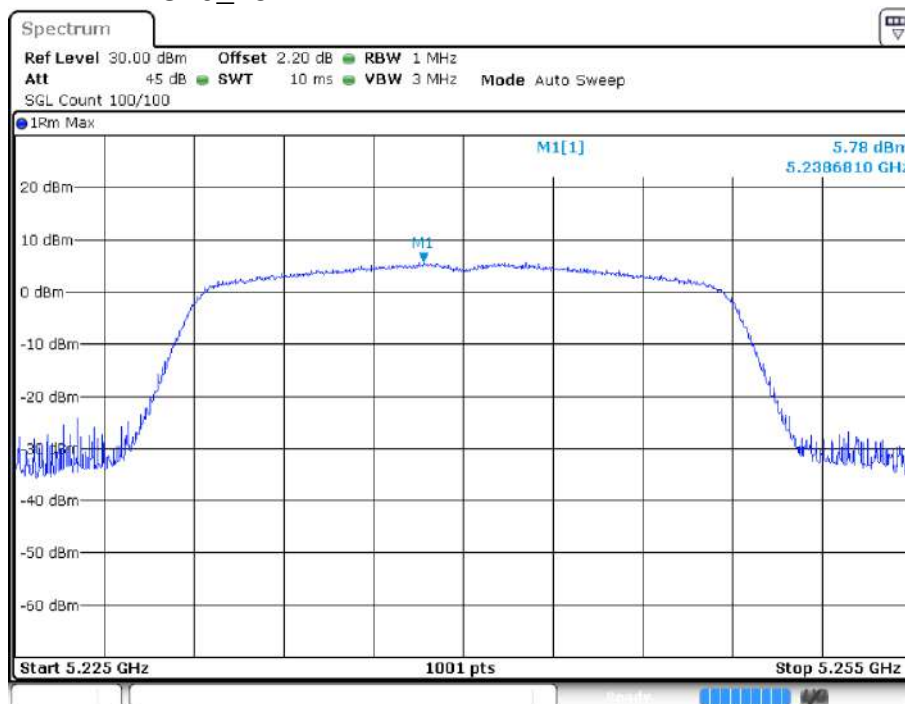
11AC20_36 ANT 1



Date: 2.NOV.2019 00:48:47

4.6.2.29

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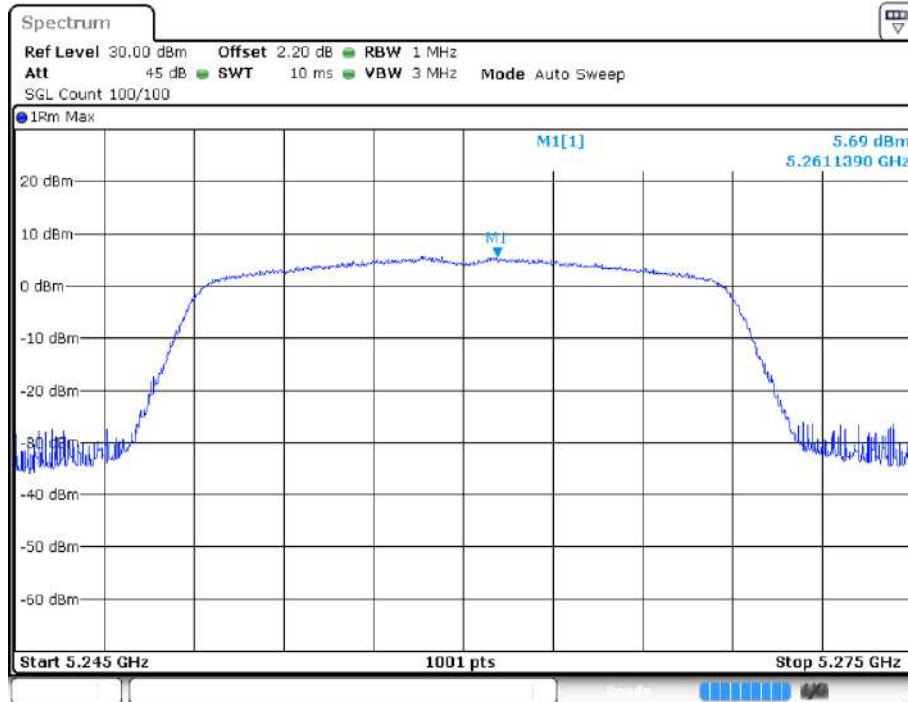


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4.6.2.30

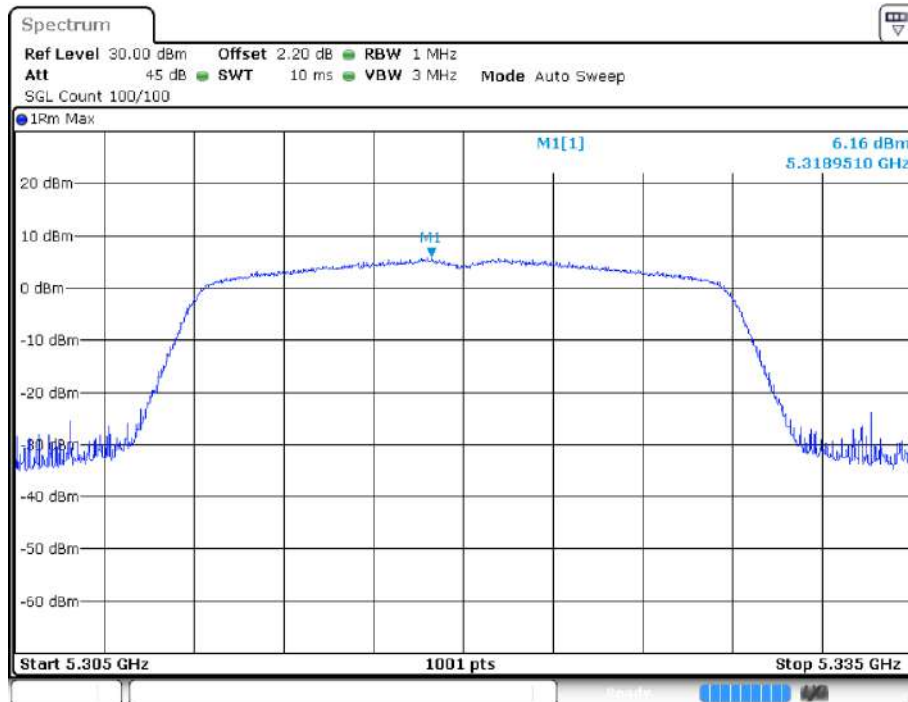
11AC20_52 ANT 1



Date: 2.NOV.2019 00:52:47

4.6.2.31

11AC20_64 ANT 1



Date: 2.NOV.2019 00:54:01



4.6.2.32

11AC20_100 ANT 1



Date: 2.NOV.2019 00:56:16

4.6.2.33

11AC20_140 ANT 1

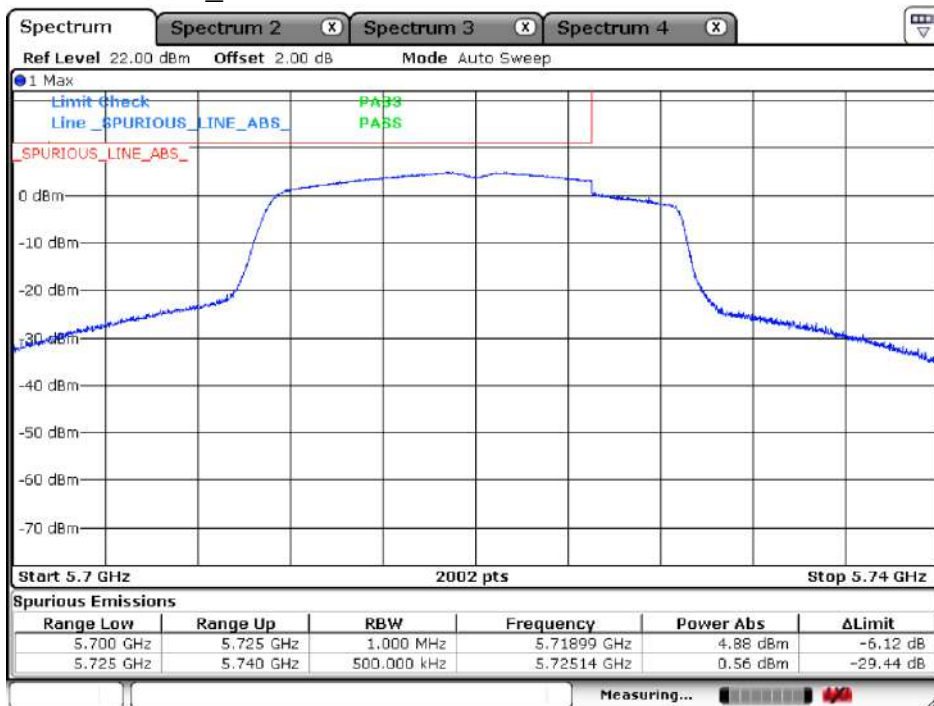


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4.6.2.34

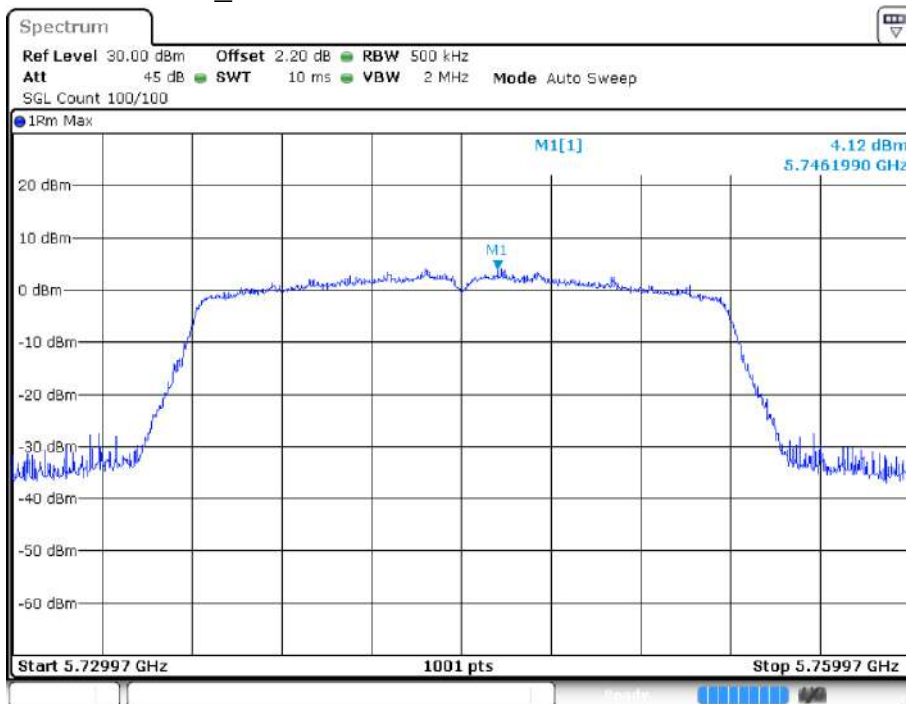
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4.6.2.35

11AC20_149 ANT 1



Date: 2.NOV.2019 00:59:18



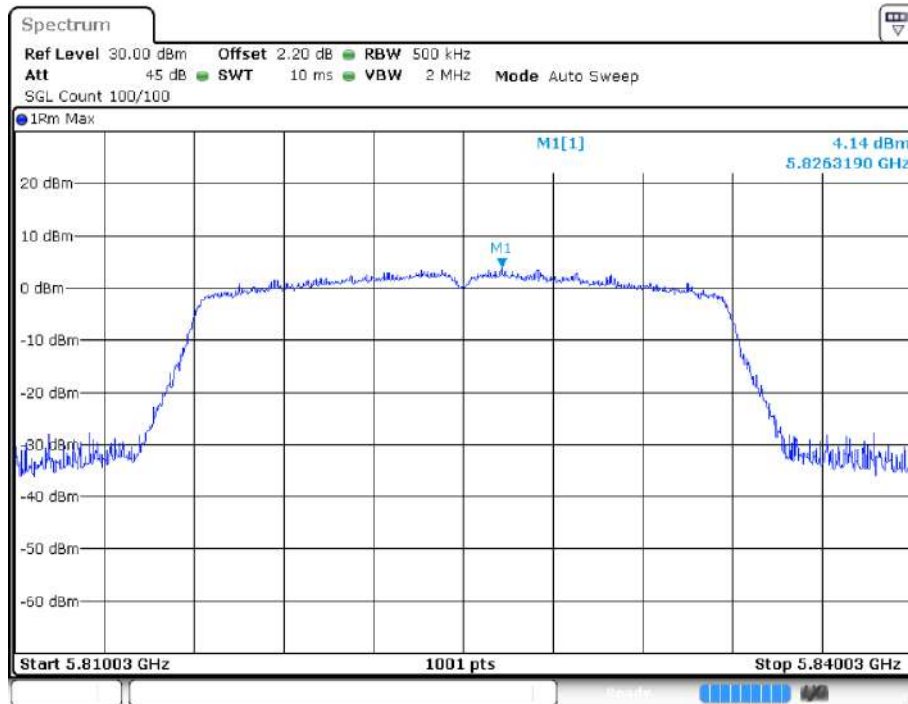
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4.6.2.36

11AC20_165 ANT 1



Date: 2.NOV.2019 01:00:21

4.6.2.37

11AC40_38 ANT 1

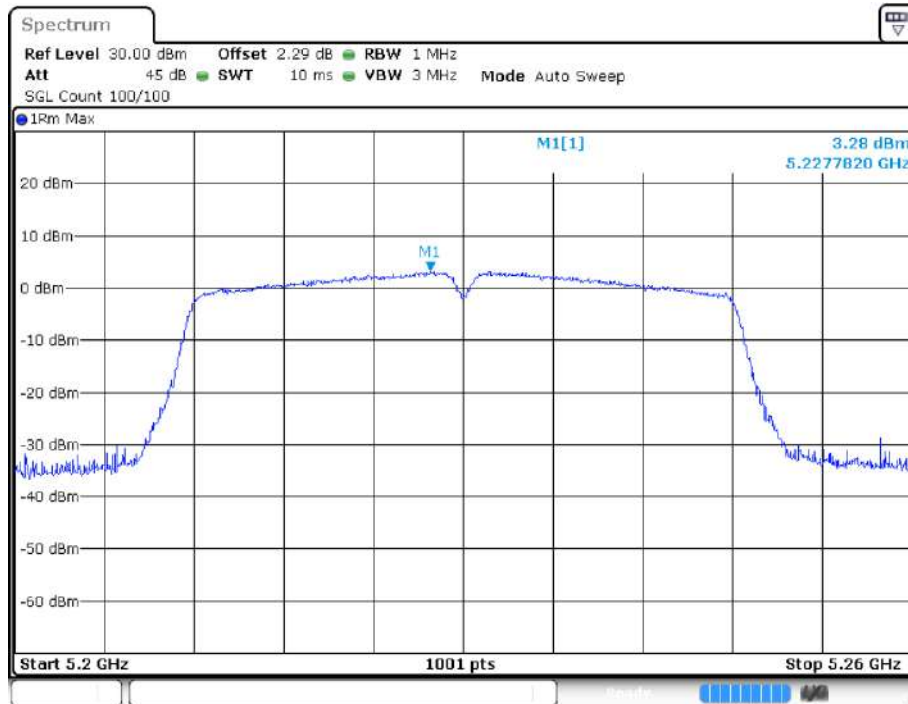


Date: 2.NOV.2019 04:40:05



4.6.2.38

11AC40_46 ANT 1



Date: 2.NOV.2019 04:41:05

4.6.2.39

11AC40_54 ANT 1



Date: 2.NOV.2019 04:42:16



4.6.2.40

11AC40_62 ANT 1



Date: 2.NOV.2019 04:43:08

4.6.2.41

11AC40_102 ANT 1



Date: 2.NOV.2019 04:45:06



4.6.2.42

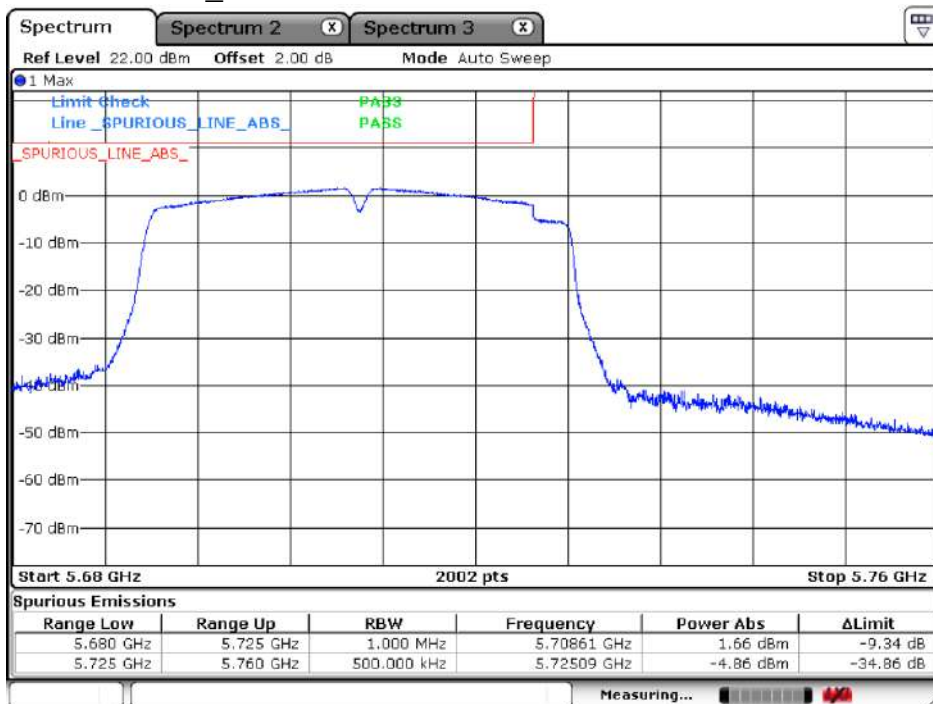
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4.6.2.43

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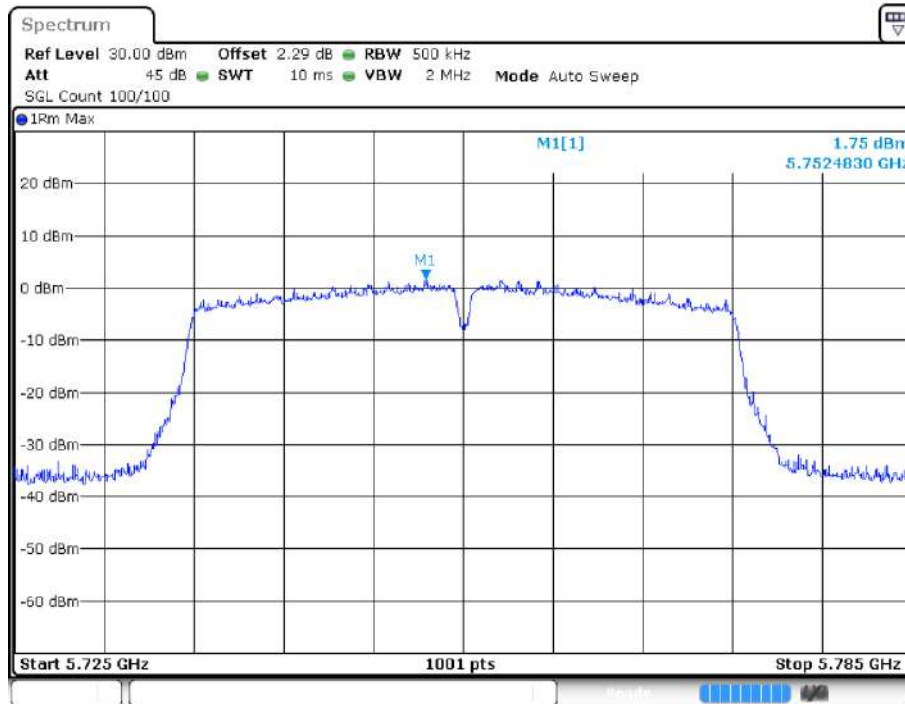


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4.6.2.44

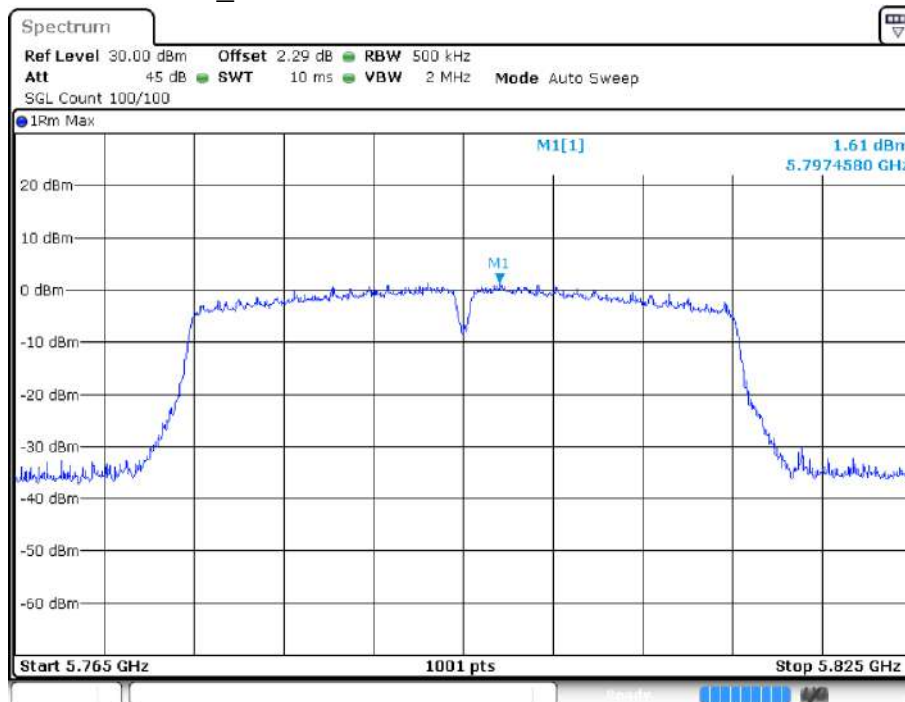
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4.6.2.45

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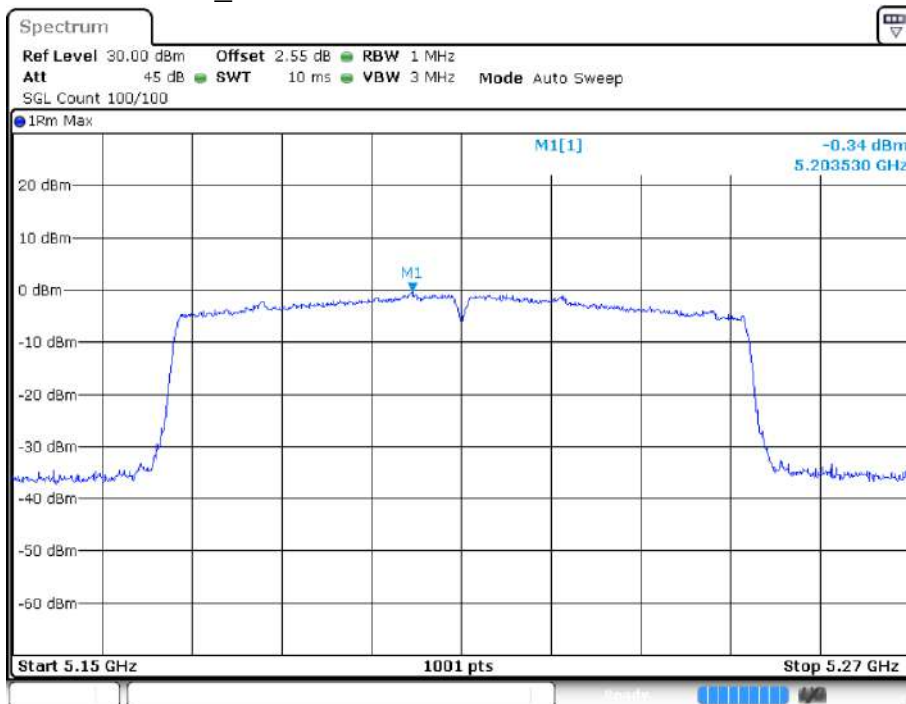


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4.6.2.46

11AC80_42 ANT 1



Date: 2.NOV.2019 04:52:53

4.6.2.47

11AC80_58 ANT 1



Date: 2.NOV.2019 04:54:22



4.6.2.48

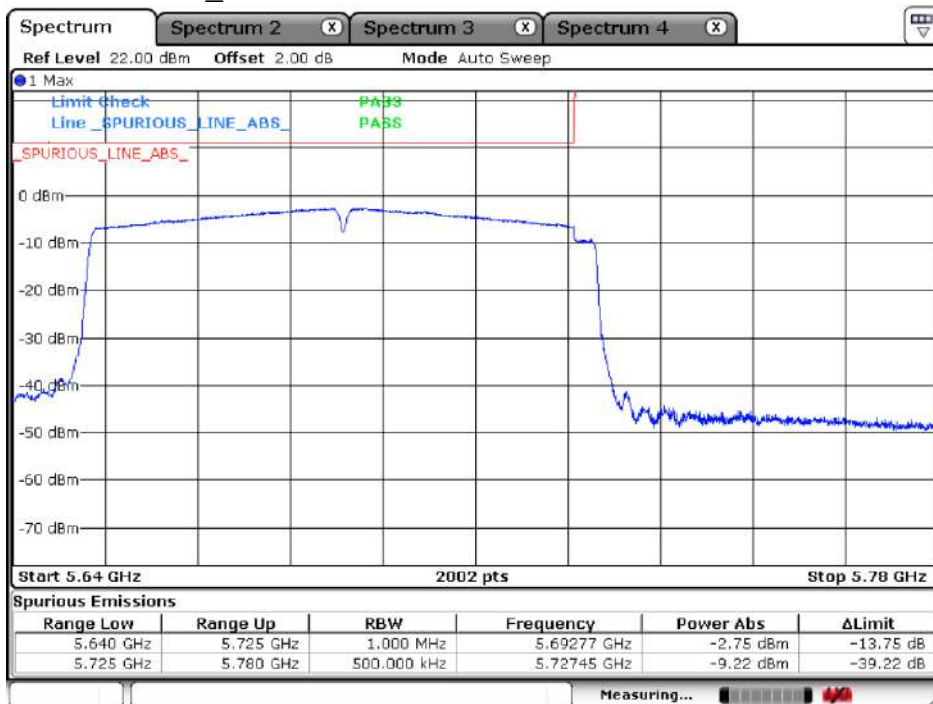
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4.6.2.49

11AC80_138 ANT 1

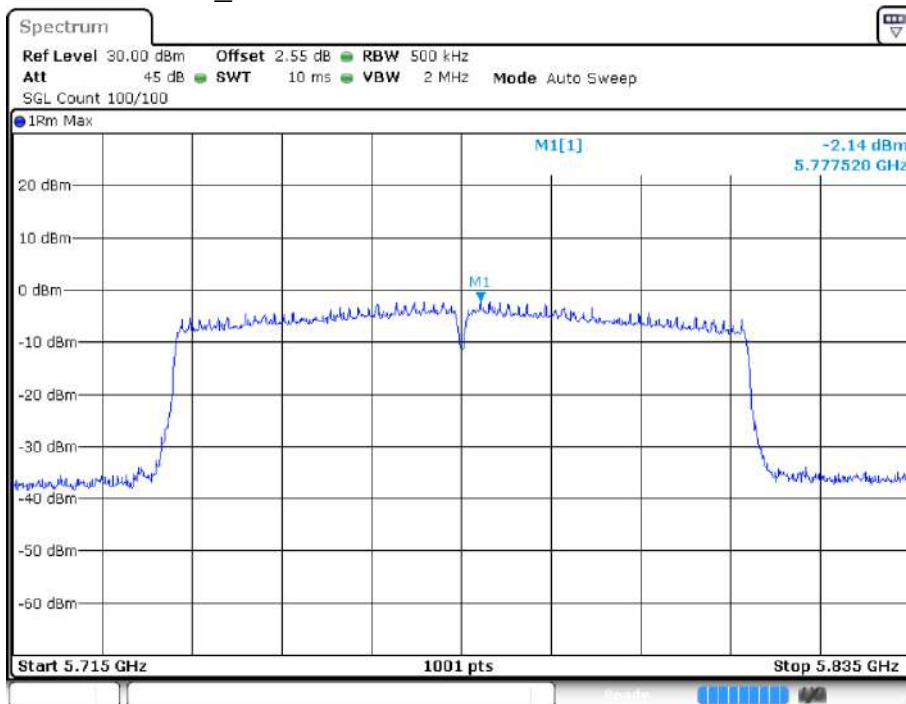


Date: 14.DEC.2019 06:10:40



4.6.2.50

11AC80_155 ANT 1



Date: 2.NOV.2019 05:00:17



4.7 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test Setup:	

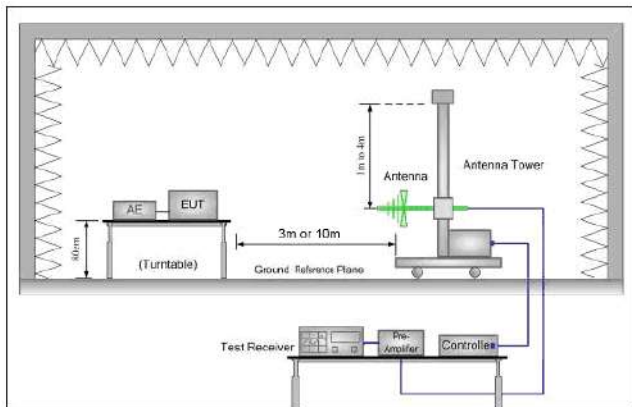


Figure 1. 30MHz to 1GHz

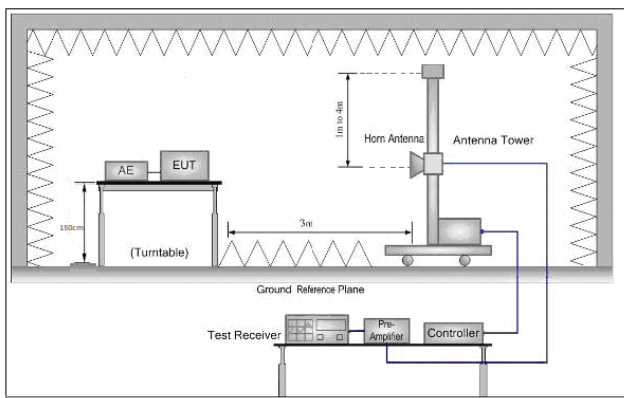


Figure 2. Above 1 GHz

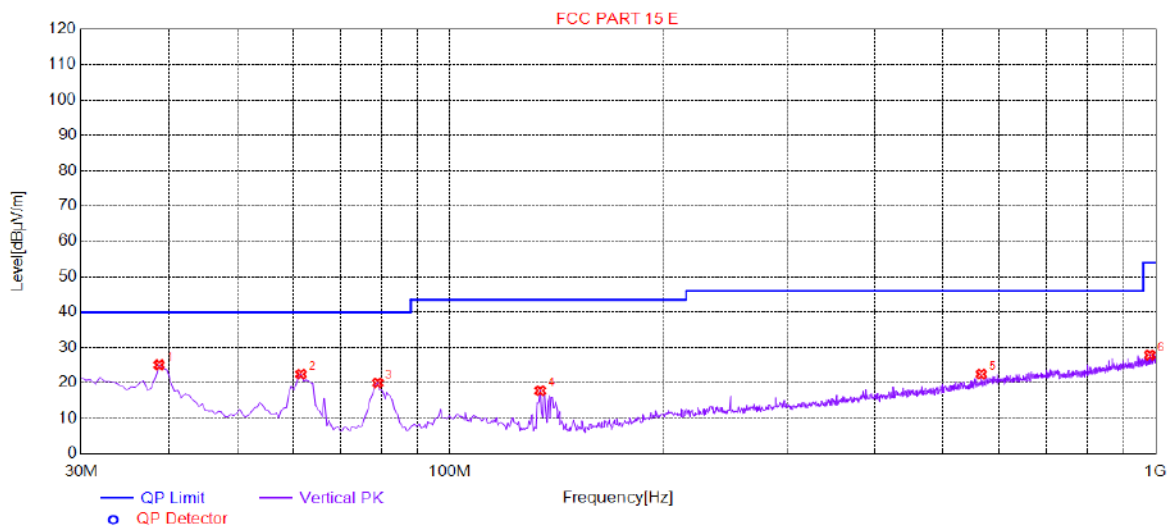
Test Procedure:	<p>a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. For above 1GHz test, the EUT was placed on 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.</p> <p>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.</p> <p>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.</p> <p>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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the outermost channels.</p> <p>h. 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>i. Repeat above procedures until all frequencies measured was complete.</p>
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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) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

4.7.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting	Vertical



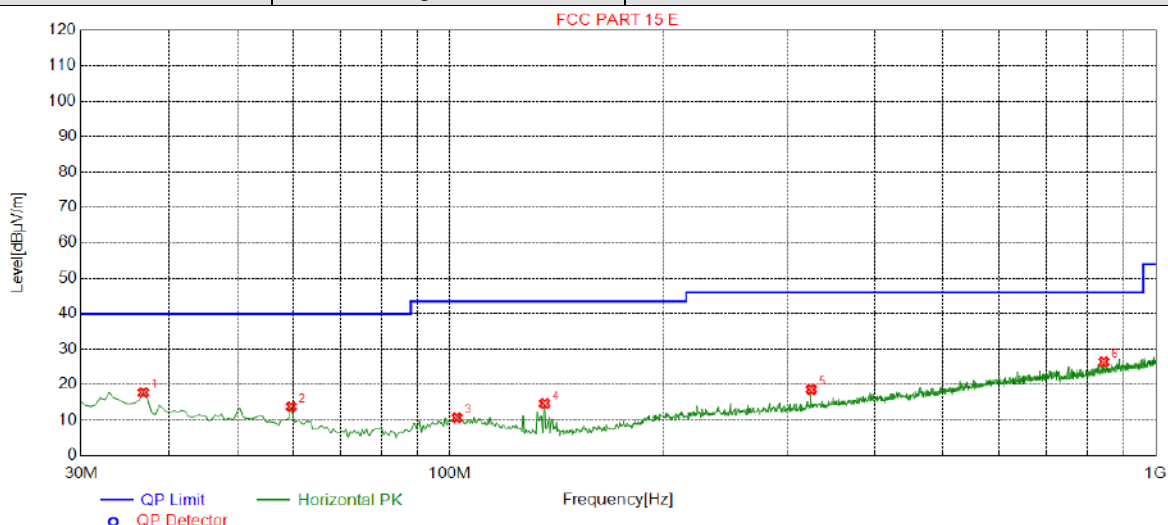
Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.7344	25.12	-28.75	40.00	14.88	209	62	Vertical
2	61.5408	22.48	-32.26	40.00	17.52	178	72	Vertical
3	79.0095	19.98	-35.97	40.00	20.02	200	67	Vertical
4	134.3272	17.79	-35.28	43.50	25.71	135	236	Vertical
5	566.1931	22.50	-21.58	46.00	23.50	209	46	Vertical
6	981.0755	27.85	-15.05	54.00	26.15	162	354	Vertical



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Test mode:	Transmitting	Horizontal
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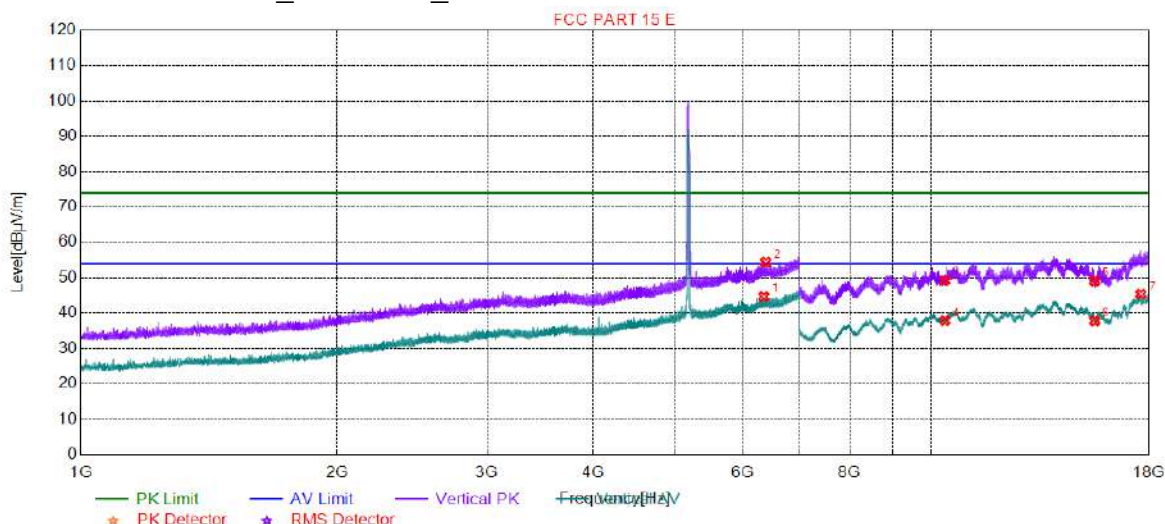
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7934	17.76	-29.38	40.00	22.24	221	140	Horizontal
2	59.5998	13.80	-31.80	40.00	26.20	190	341	Horizontal
3	102.3012	10.63	-32.00	43.50	32.87	279	148	Horizontal
4	136.2681	14.68	-35.37	43.50	28.82	268	62	Horizontal
5	325.0275	18.60	-27.56	46.00	27.40	244	336	Horizontal
6	844.2371	26.43	-16.98	46.00	19.57	291	23	Horizontal



4.7.2 Transmitter emission above 1GHz

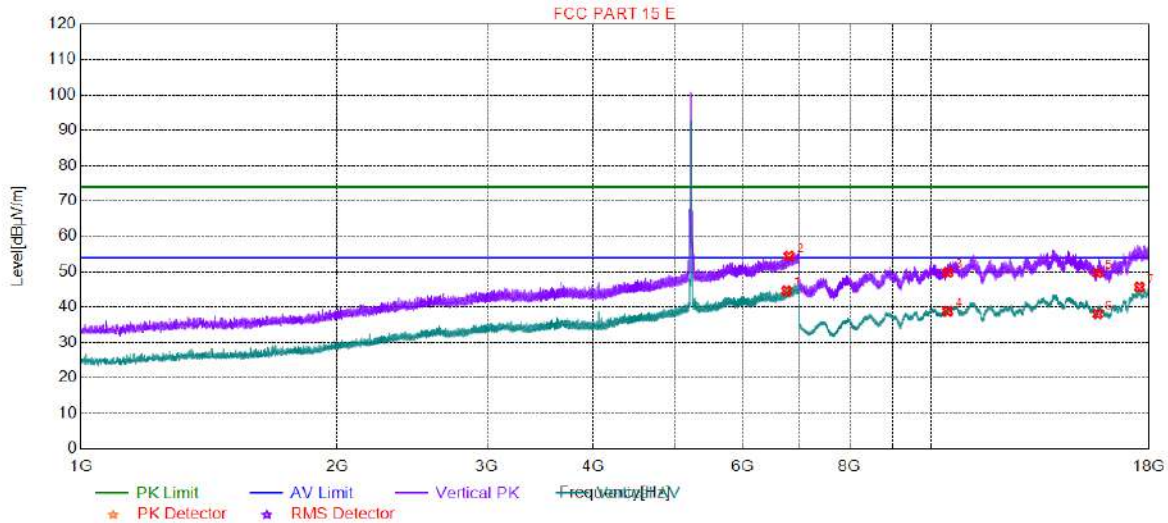
4.7.2.1 11A20_36 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6344.1672	44.69	21.66	54.00	9.31	258	0	Vertical
2	6380.1690	54.42	21.85	74.00	19.58	296	291	Vertical
3	10360.0000	49.29	-5.35	74.00	24.71	274	190	Vertical
4	10360.0000	37.90	-5.35	54.00	16.10	123	342	Vertical
5	15540.0000	49.10	-3.26	74.00	24.90	261	291	Vertical
6	15540.0000	37.84	-3.26	54.00	16.16	158	190	Vertical
7	17606.1803	45.38	1.47	54.00	8.62	349	190	Vertical



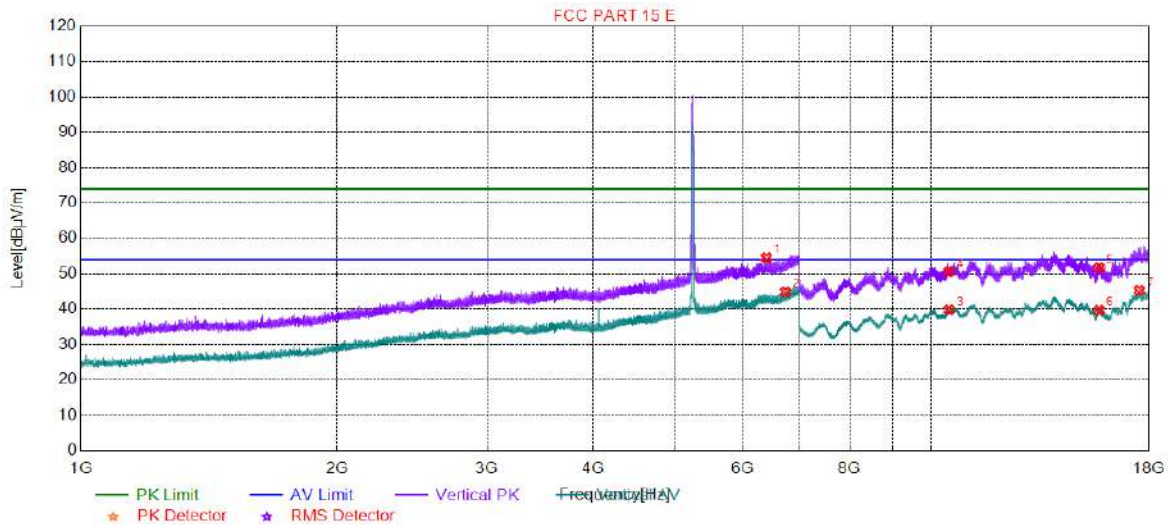
4.7.2.2 11A20_44 ANT 1_Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6747.9874	44.62	22.81	54.00	9.38	258	342	Vertical
2	6795.9898	54.46	23.31	74.00	19.54	296	191	Vertical
3	10440.0000	49.88	-4.92	74.00	24.12	274	191	Vertical
4	10440.0000	38.85	-4.92	54.00	15.15	153	241	Vertical
5	15660.0000	49.67	-3.54	74.00	24.33	216	141	Vertical
6	15660.0000	38.03	-3.54	54.00	15.97	213	241	Vertical
7	17533.0267	45.65	0.77	54.00	8.35	161	141	Vertical



4.7.2.3 11A20_48 ANT 1_Vertical

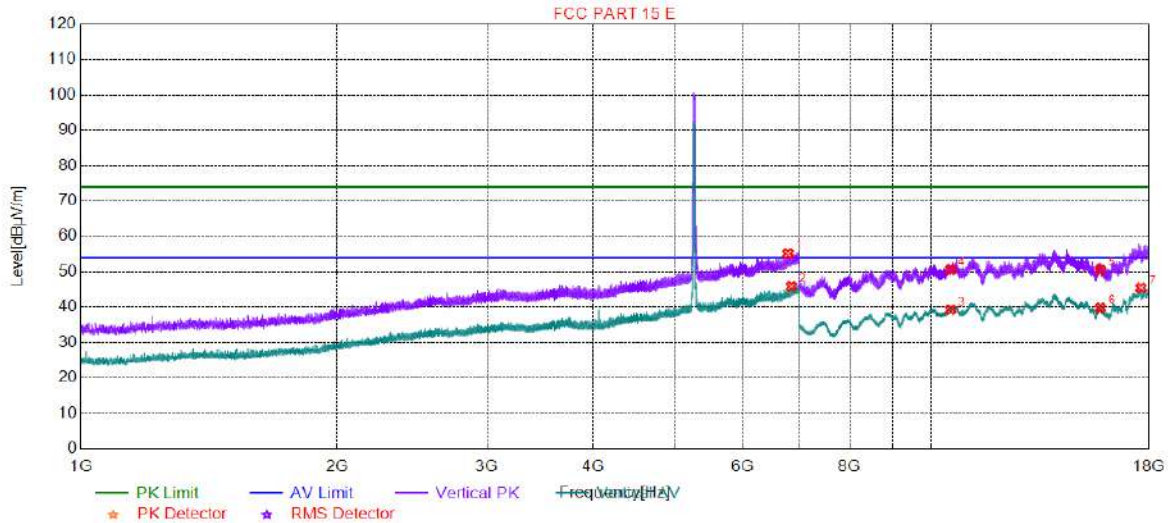


Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6392.1696	54.52	21.92	74.00	19.48	174	241	Vertical
2	6728.1864	44.90	22.60	54.00	9.10	185	292	Vertical
3	10480.0000	39.87	-4.49	54.00	14.13	196	190	Vertical
4	10480.0000	50.64	-4.49	74.00	23.36	231	342	Vertical
5	15720.0000	51.73	-2.65	74.00	22.27	261	39	Vertical
6	15720.0000	39.73	-2.65	54.00	14.27	242	240	Vertical
7	17527.5264	45.30	0.70	54.00	8.70	312	89	Vertical



4.7.2.4 11A20_52 ANT 1_Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6775.2888	55.14	23.09	74.00	18.86	174	191	Vertical
2	6837.0919	45.88	23.44	54.00	8.12	185	40	Vertical
3	10520.0000	39.32	-4.37	54.00	14.68	321	190	Vertical
4	10520.0000	50.62	-4.37	74.00	23.38	269	140	Vertical
5	15780.0000	50.53	-2.36	74.00	23.47	258	0	Vertical
6	15780.0000	39.81	-2.36	54.00	14.19	159	190	Vertical
7	17613.8807	45.41	1.27	54.00	8.59	191	190	Vertical

