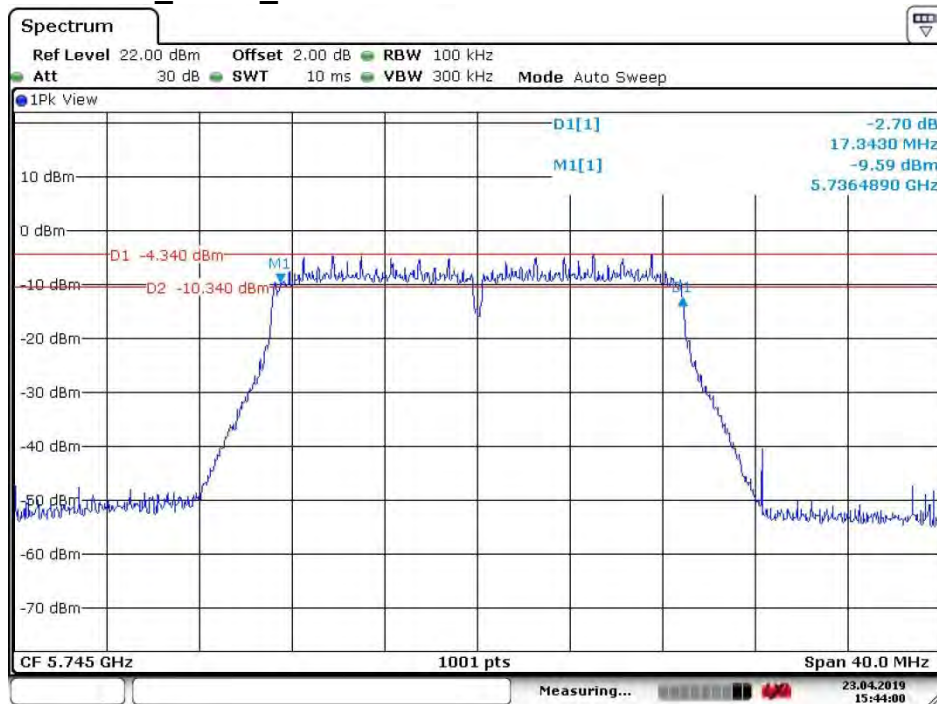
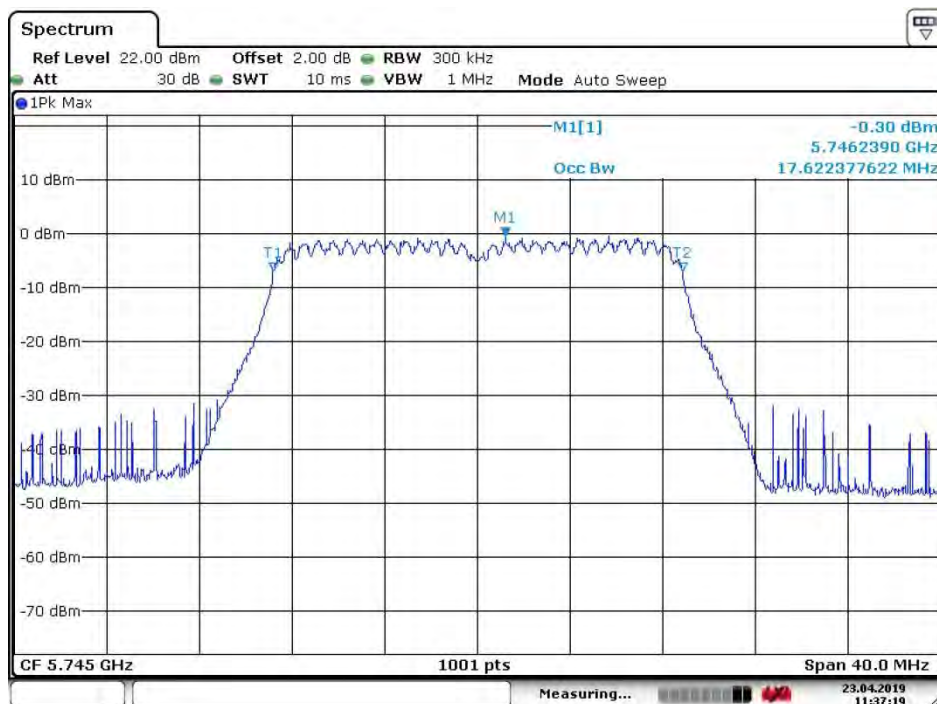


4.6.1.46

11N20_MIMO_149 ANT 2



Date: 23.APR.2019 15:44:01

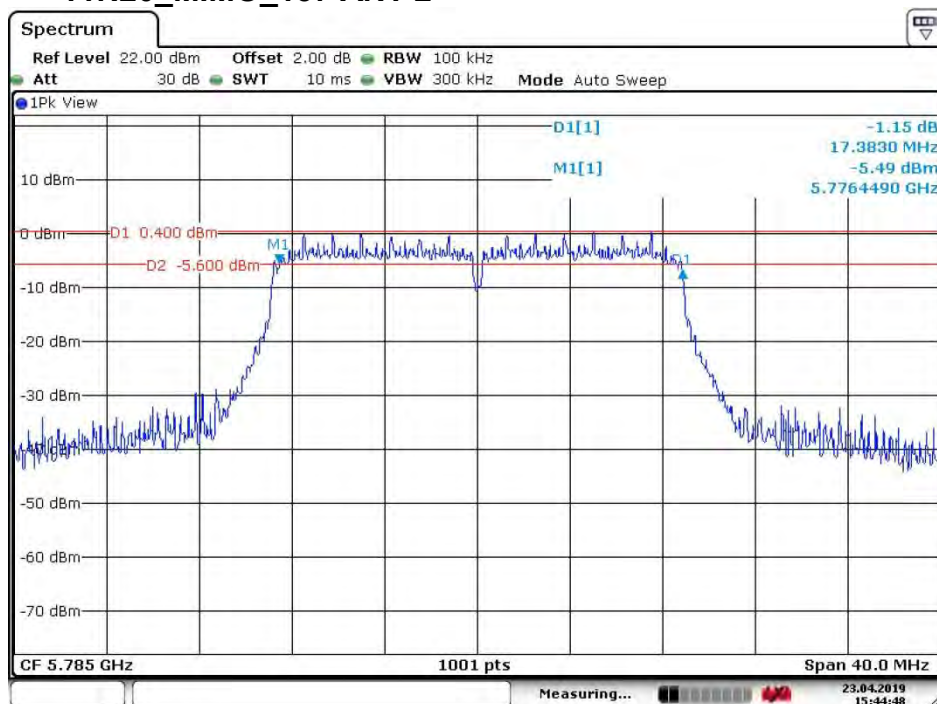


Date: 23.APR.2019 11:37:19

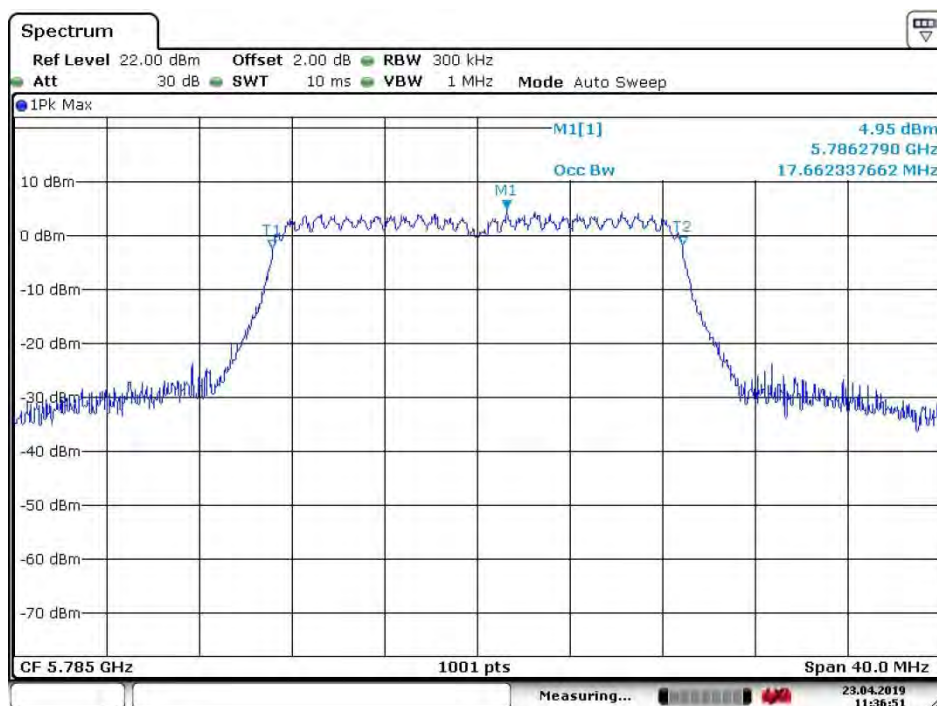


4.6.1.47

11N20 MIMO 157 ANT 2



Date: 23.APR.2019 15:44:49



Date: 23 APR 2019 11:36:52



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Shenzhen Branch (China) (Formerly SGS Laboratory)

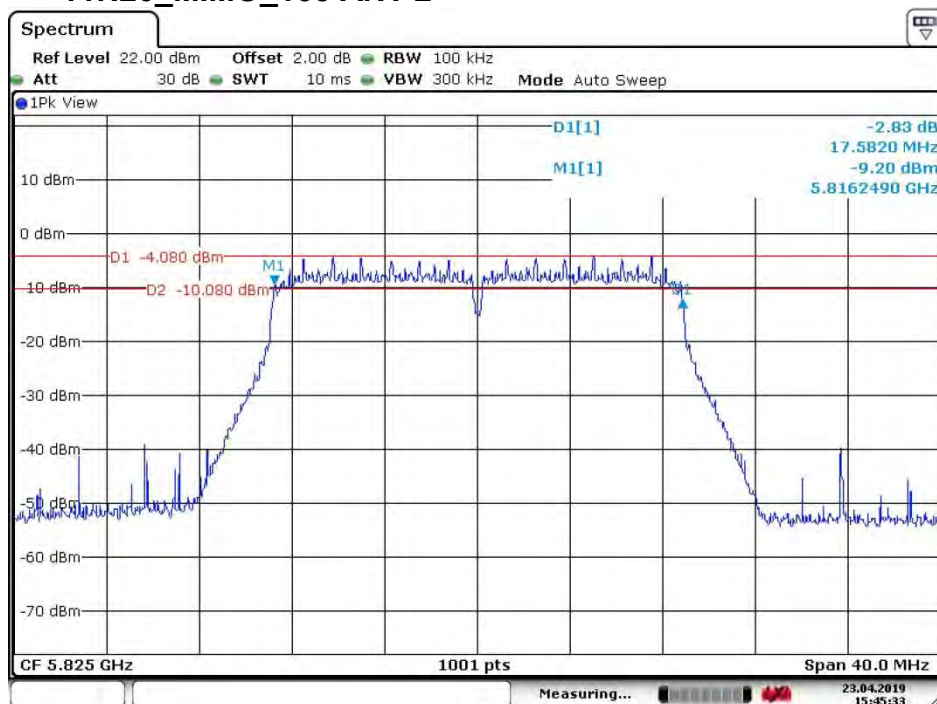
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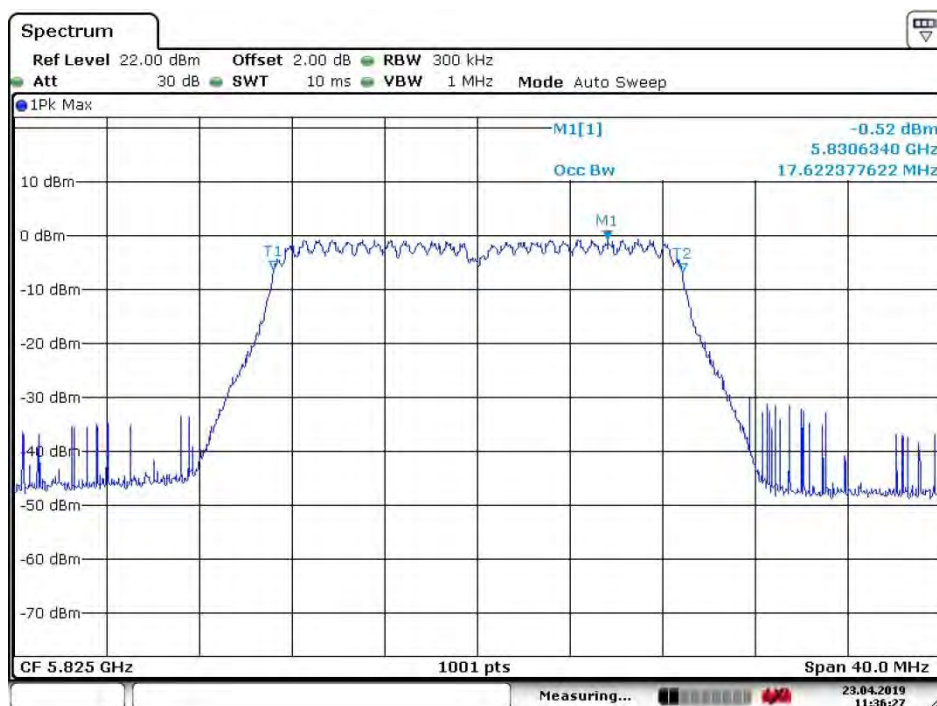
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4.6.1.48

11N20_MIMO_165 ANT 2



Date: 23.APR.2019 15:45:34

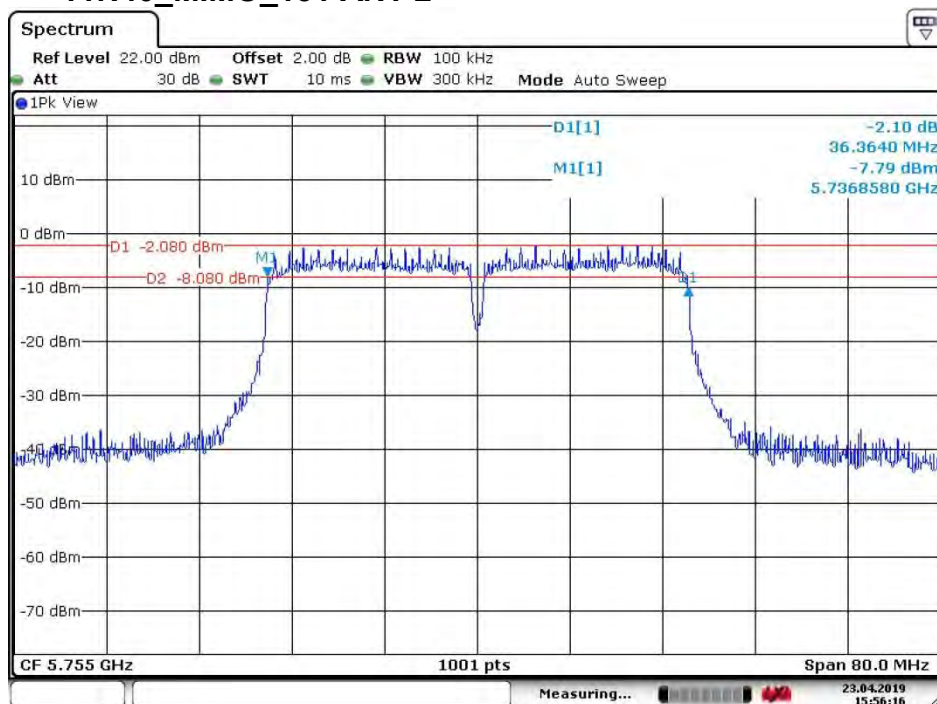


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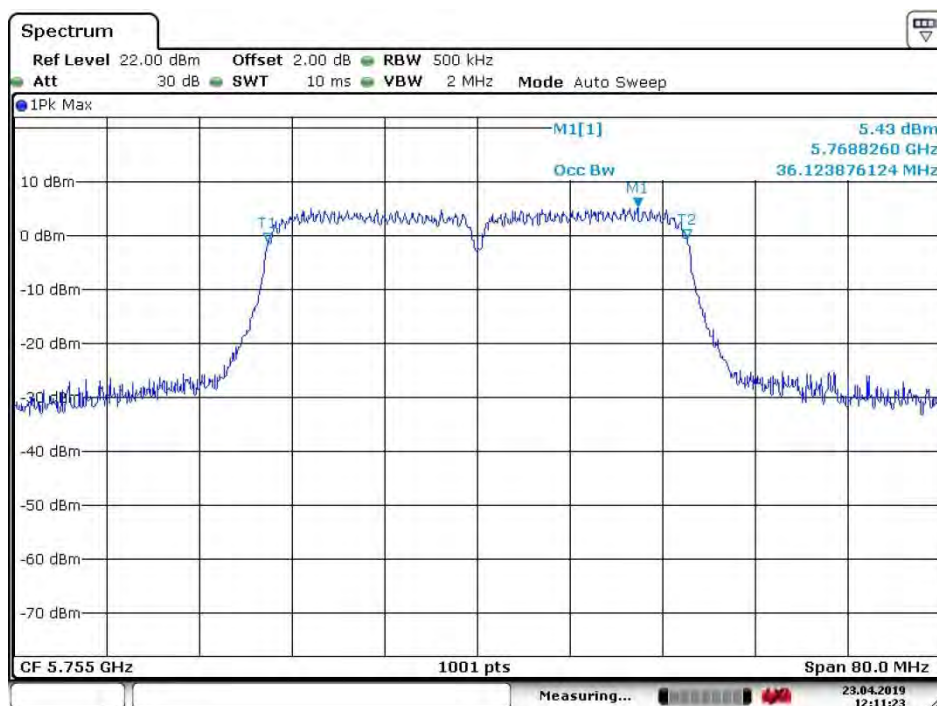


4.6.1.49

11N40_MIMO_151 ANT 2



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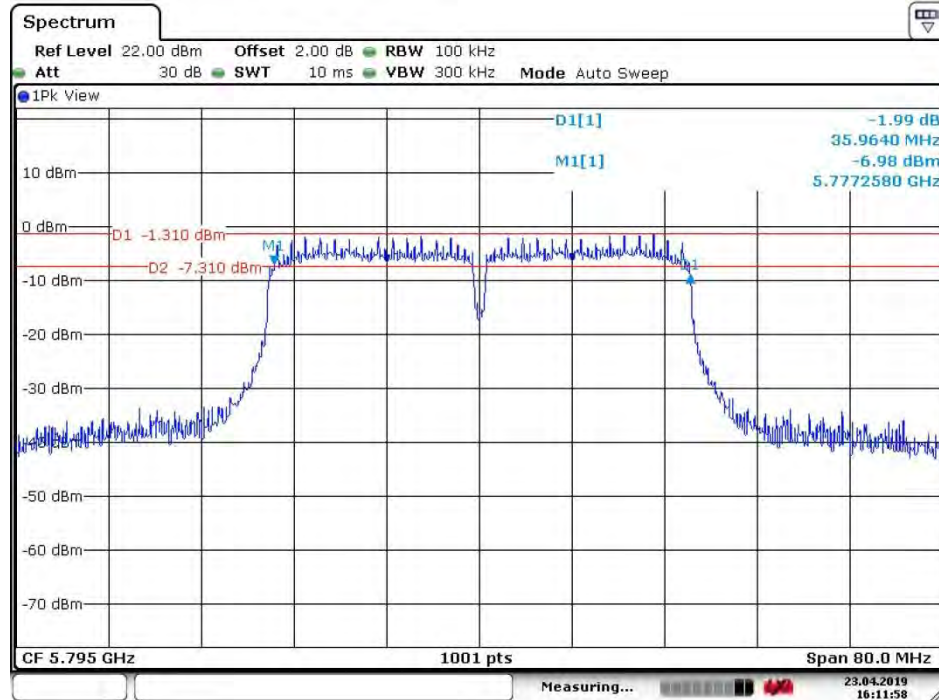


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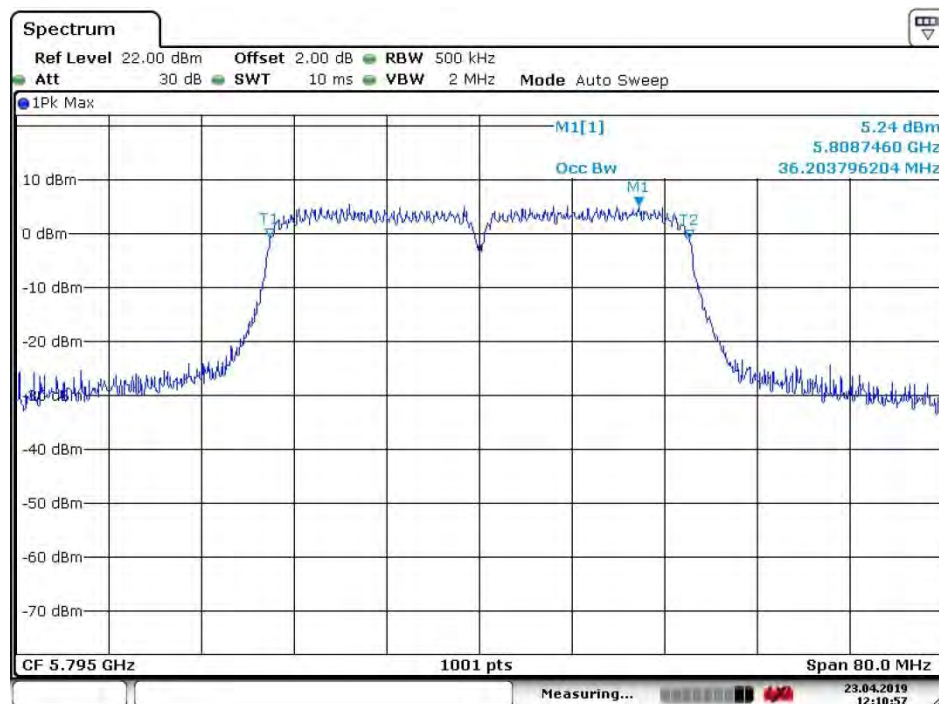


4.6.1.50

11N40_MIMO_159 ANT 2



Date: 23.APR.2019 16:11:59

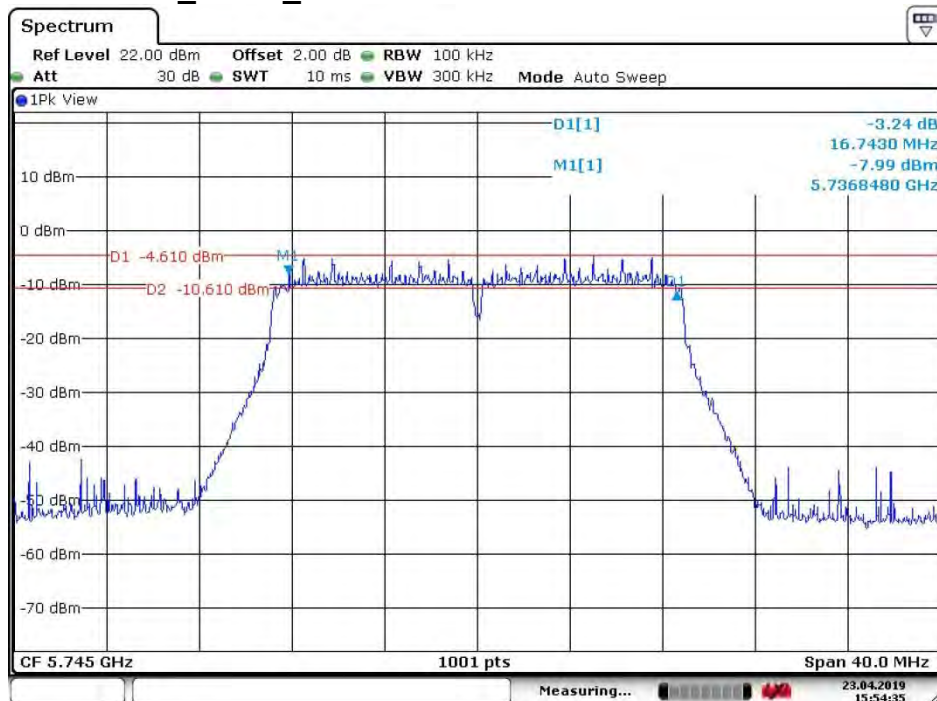


Date: 23.APR.2019 12:10:57

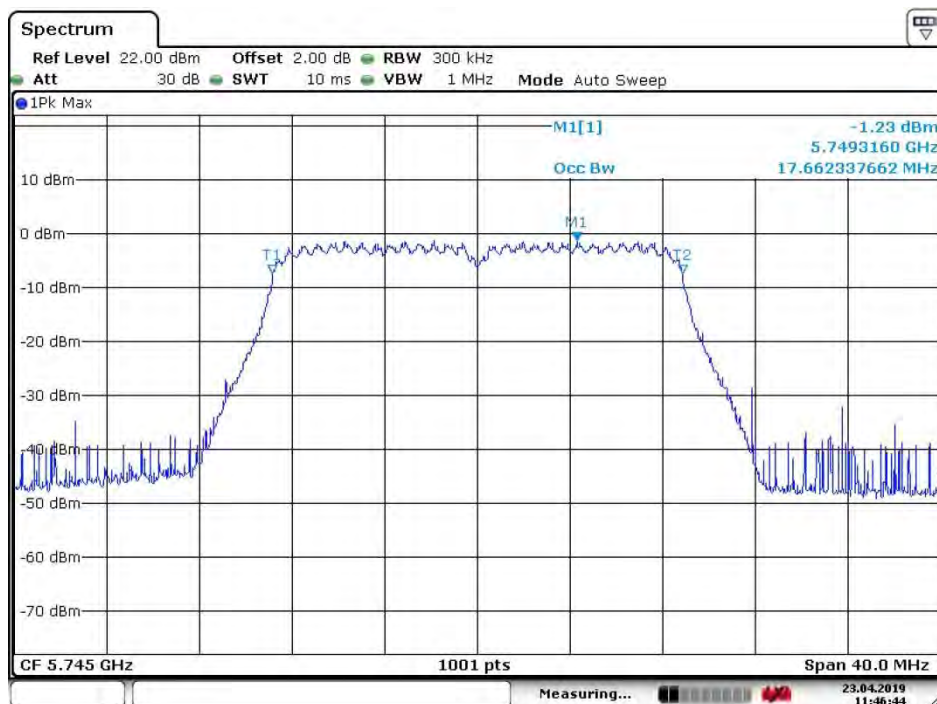


4.6.1.51

11AC20_MIMO_149 ANT 2



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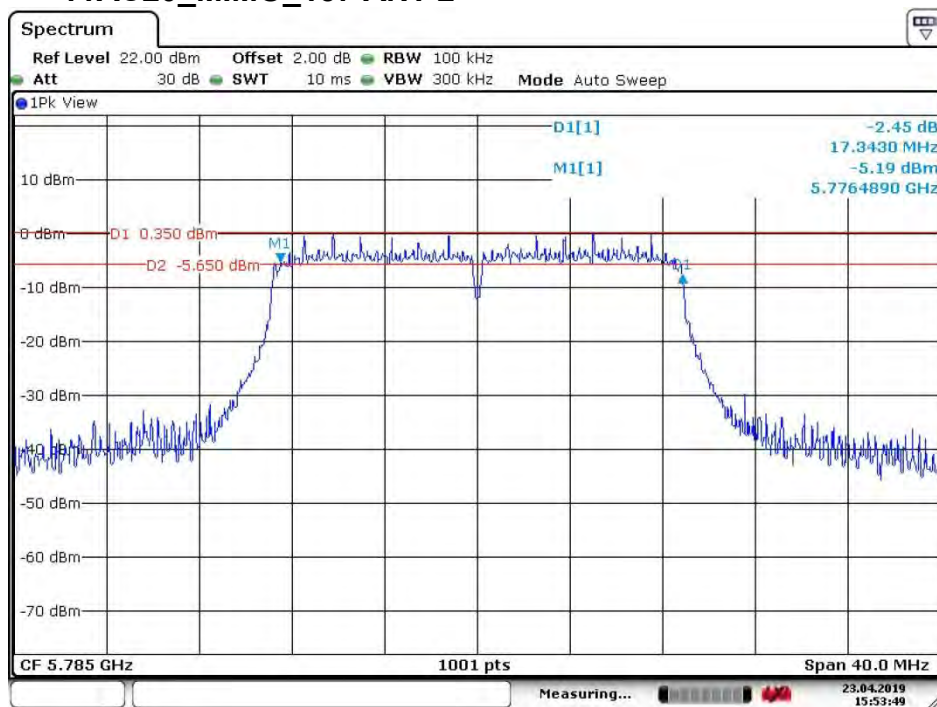


Date: 23.APR.2019 11:46:44

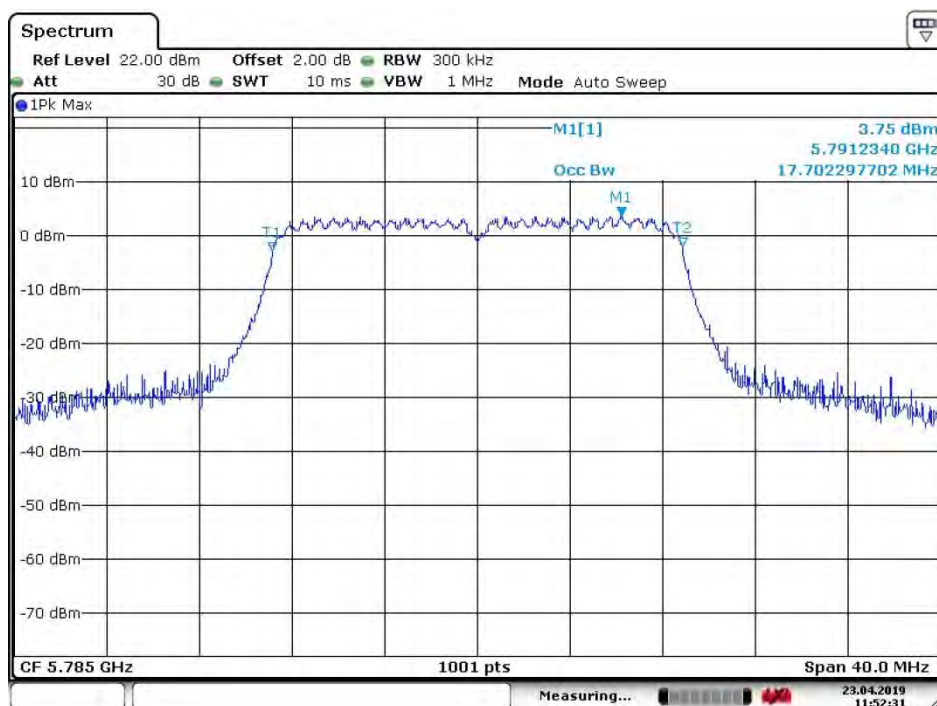


4.6.1.52

11AC20_MIMO_157 ANT 2



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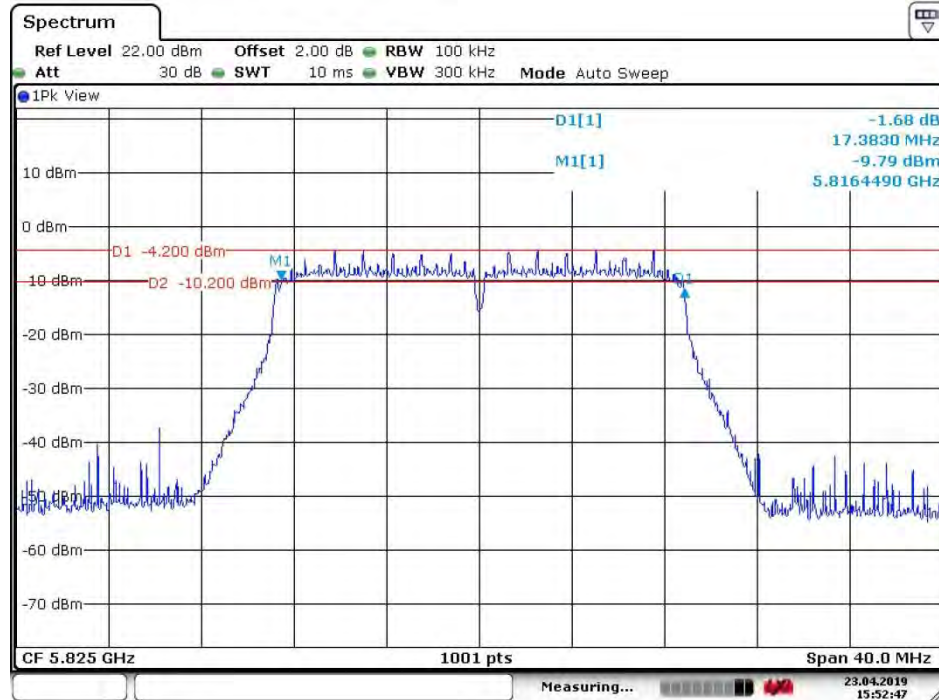


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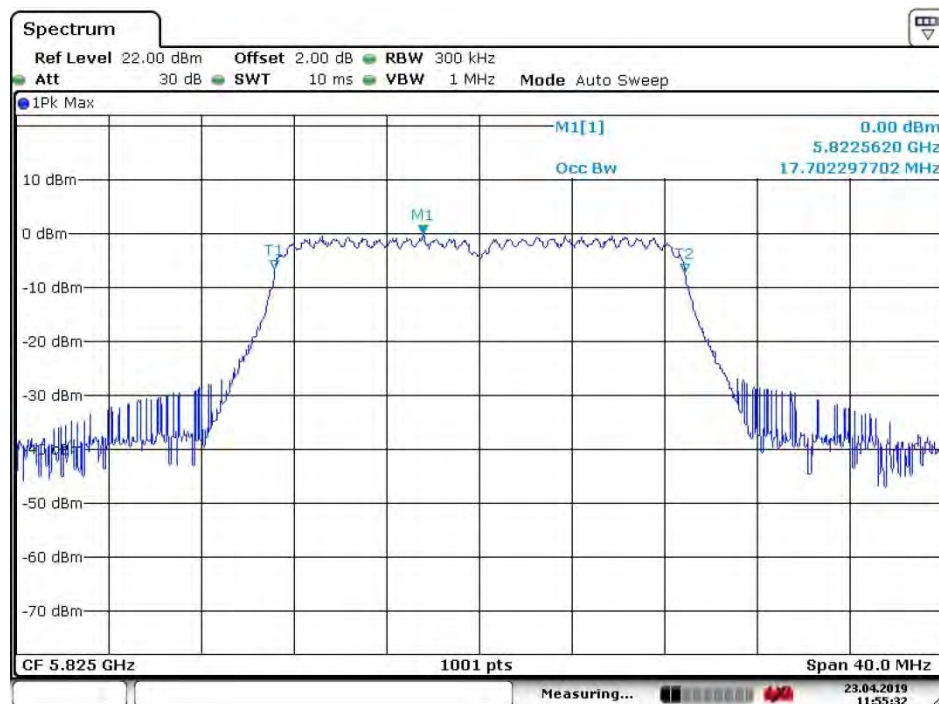


4.6.1.53

11AC20_MIMO_165 ANT 2



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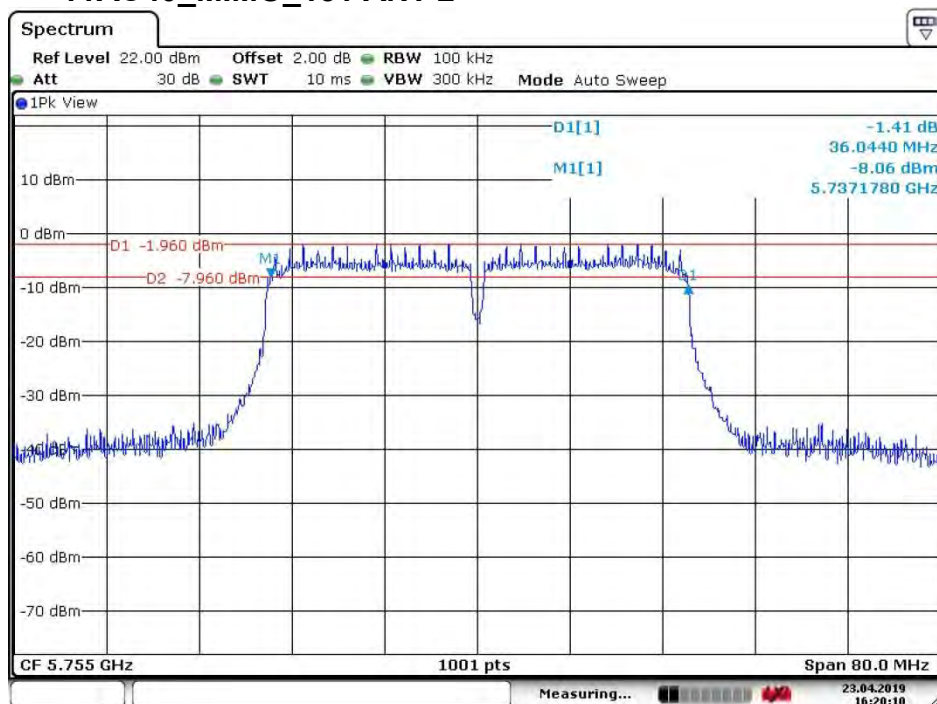


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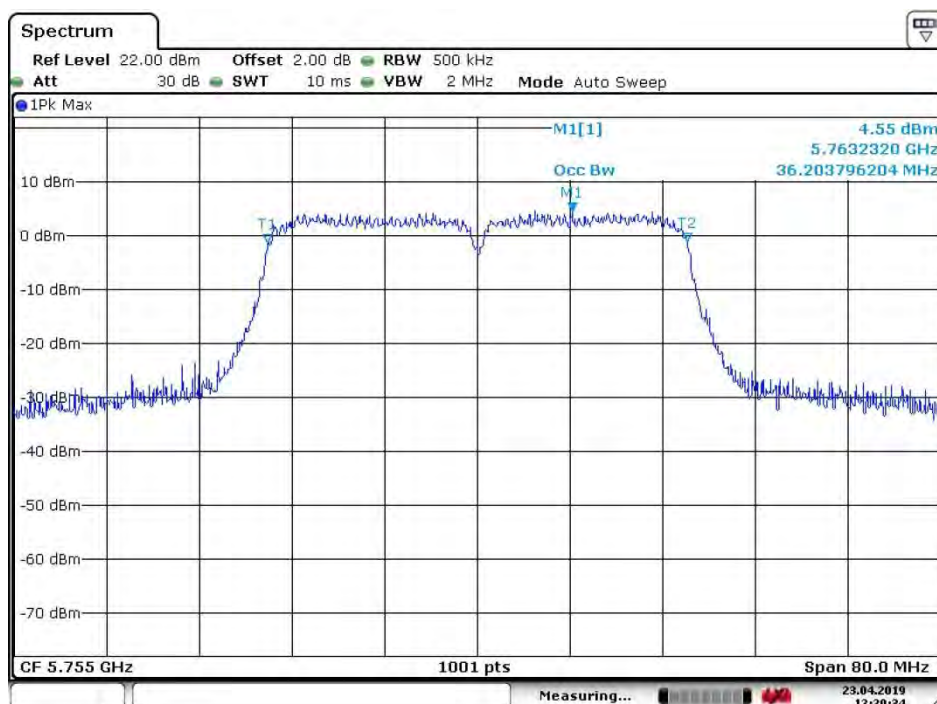


4.6.1.54

11AC40_MIMO_151 ANT 2



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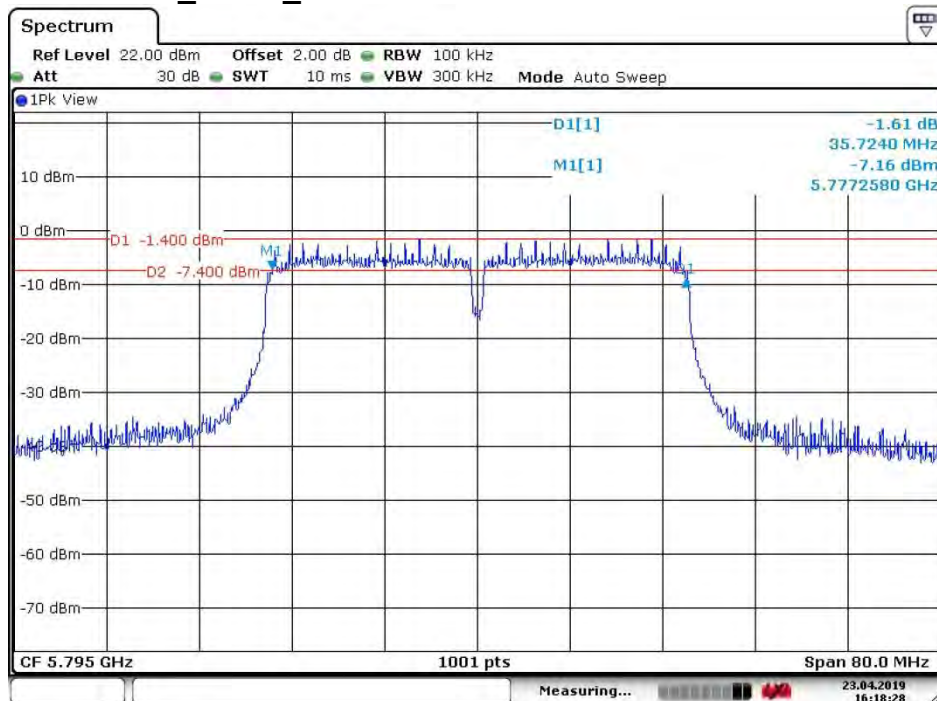


Date: 23.APR.2019 12:20:34

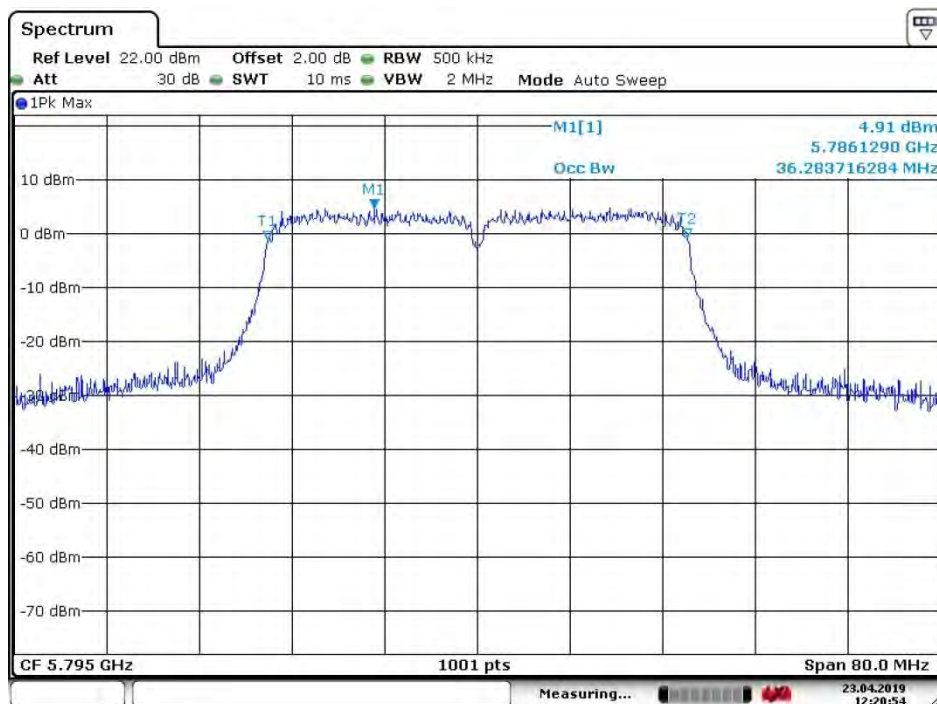


4.6.1.55

11AC40_MIMO_159 ANT 2



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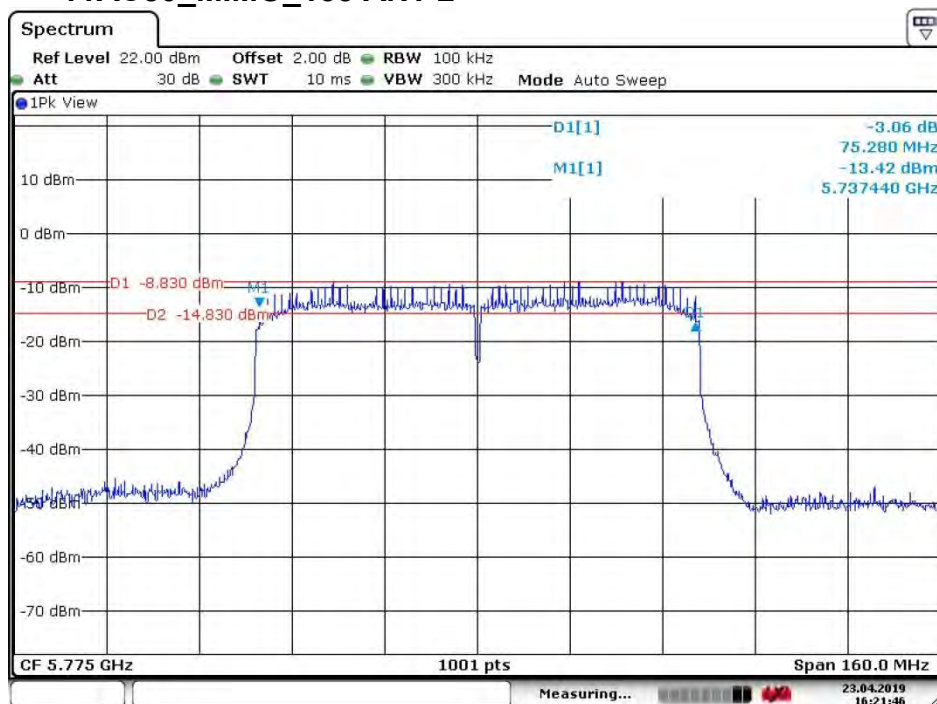


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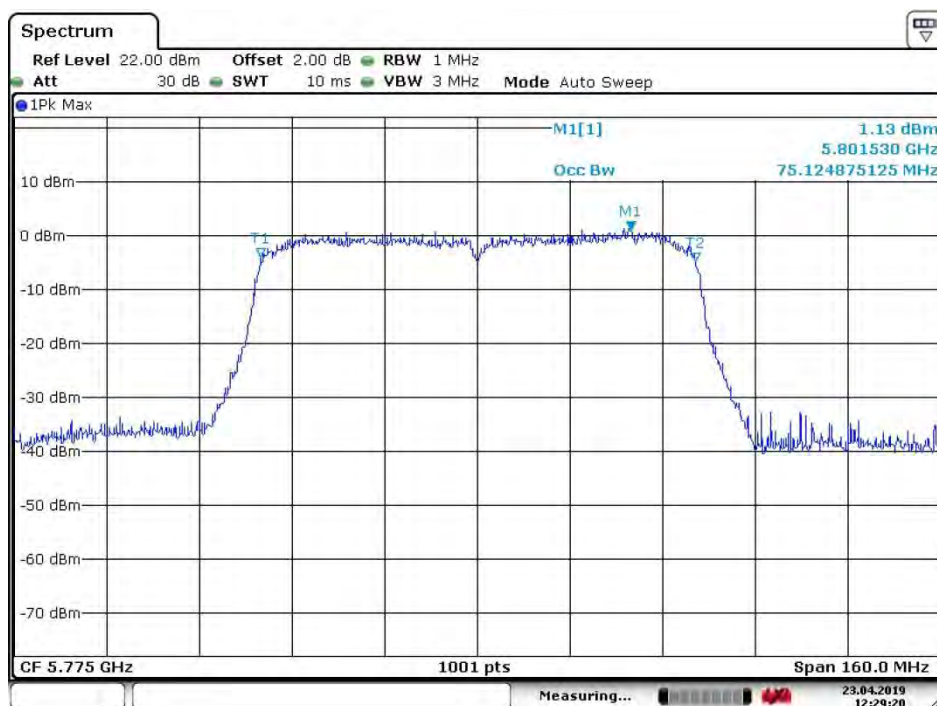


4.6.1.56

11AC80_MIMO_155 ANT 2



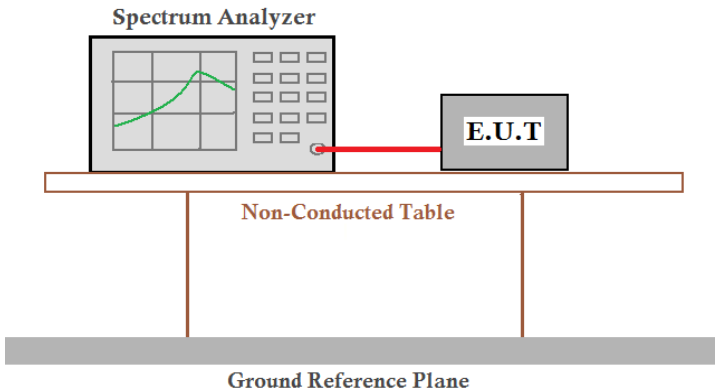
Date: 23.APR.2019 16:21:46



Date: 23.APR.2019 12:29:20



4.7 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
Test Instruments:	Refer to section 5.10 for details	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates	
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT20); MCSAC0 of rate is the worst case of 802.11ac(HT40); MCSAC0 of rate is the worst case of 802.11ac(HT80). MCSAC0 of rate is the worst case of 802.11ac(HT160). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	



Measurement Data:

Test Mode	Test Channel	Frequency [MHz]	Meas. Level (Cond.)		Verdict
			ANT 1	ANT 2	
11A20	36	5180	-0.84	-1.37	PASS
	44	5200	4.32	3.74	PASS
	48	5240	4.21	3.92	PASS
	52	5260	4.52	4.81	PASS
	60	5280	5.27	4.64	PASS
	64	5320	0.41	-0.34	PASS
	100	5500	-0.34	-2.05	PASS
	116	5600	3.46	2.72	PASS
	140	5720	-1.05	-1.75	PASS
	149	5745	-3.63	-3.86	PASS
	157	5785	1.19	1.03	PASS
11N20	165	5825	-3.00	-3.70	PASS
	36	5180	-1.48	-1.81	PASS
	44	5200	3.68	3.40	PASS
	48	5240	4.01	3.88	PASS
	52	5260	4.49	4.39	PASS
	60	5280	4.91	4.60	PASS
	64	5320	-0.10	-0.71	PASS
	100	5500	-0.71	-2.23	PASS
	116	5600	3.22	2.36	PASS
	140	5720	-1.50	-2.15	PASS
	149	5745	-3.30	-3.58	PASS
11N40	157	5785	1.18	1.33	PASS
	165	5825	-3.83	-3.30	PASS
	38	5190	-5.71	-6.25	PASS
	46	5230	0.89	0.20	PASS
	54	5270	1.55	1.30	PASS
	62	5310	-5.55	-6.73	PASS
	102	5510	-5.23	-6.81	PASS
	110	5550	0.39	-0.63	PASS
	134	5670	-5.82	-7.41	PASS
11AC20	151	5755	-1.37	-1.73	PASS
	159	5795	-1.07	-1.41	PASS
	36	5180	-1.42	-2.03	PASS
	44	5200	3.65	3.31	PASS
	48	5240	4.11	3.52	PASS
	52	5260	4.18	4.01	PASS
	60	5280	4.62	4.49	PASS
	64	5320	-0.27	-0.44	PASS
	100	5500	-0.71	-2.39	PASS
	116	5600	3.04	2.32	PASS
	140	5720	-1.48	-1.76	PASS
11AC40	149	5745	-3.19	-3.95	PASS
	157	5785	1.29	1.36	PASS
	165	5825	-2.47	-3.35	PASS
	38	5190	-5.67	-6.33	PASS
	46	5230	0.96	0.13	PASS



	54	5270	1.23	0.66	PASS
	62	5310	-5.64	-6.87	PASS
	102	5510	-4.91	-6.74	PASS
	110	5550	0.37	-0.11	PASS
	134	5670	-5.61	-7.22	PASS
	151	5755	-1.34	-1.88	PASS
	159	5795	-1.36	-1.47	PASS
11AC80	42	5210	-12.60	-13.12	PASS
	58	5290	-9.62	-11.98	PASS
	106	5530	-13.72	-12.94	PASS
	122	5610	-10.57	-14.62	PASS
	155	5775	-8.42	-8.56	PASS
11AC160	50	5250	-14.40	-14.69	PASS
	114	5570	-17.20	-16.26	PASS
11A20 CDD	36	5180	-0.72	-1.38	PASS
	44	5200	4.08	4.17	PASS
	48	5240	4.51	4.74	PASS
	52	5260	4.68	4.89	PASS
	60	5300	5.25	5.35	PASS
	64	5320	0.22	-0.27	PASS
	100	5500	-0.47	-1.44	PASS
	116	5580	3.51	3.54	PASS
	140	5700	-1.00	-2.85	PASS
	149	5745	-2.75	-3.87	PASS
	157	5785	1.05	0.92	PASS
11N20 MIMO	165	5825	-3.11	-4.33	PASS
	36	5180	-1.35	-1.42	PASS
	44	5200	4.24	4.91	PASS
	48	5240	4.08	4.88	PASS
	52	5260	4.90	5.41	PASS
	60	5300	4.72	5.73	PASS
	64	5320	-0.25	-0.19	PASS
	100	5500	-0.99	-1.37	PASS
	116	5580	3.44	3.61	PASS
	140	5700	-1.30	-0.75	PASS
	149	5745	-2.76	-3.52	PASS
11N40 MIMO	157	5785	1.33	1.51	PASS
	165	5825	-3.02	-3.91	PASS
	38	5190	-5.71	-5.77	PASS
	46	5230	0.59	1.28	PASS
	54	5270	1.13	2.13	PASS
	62	5310	-5.21	-5.94	PASS
	102	5510	-5.31	-6.59	PASS
	110	5550	-0.06	0.56	PASS
	134	5670	-5.85	-6.99	PASS
11AC20	151	5755	-0.75	-0.54	PASS
	159	5795	-0.51	-0.47	PASS
	36	5180	-1.03	-1.52	PASS



MIMO	44	5200	3.84	3.75	PASS
	48	5240	4.29	4.20	PASS
	52	5260	4.38	4.82	PASS
	60	5300	4.93	5.37	PASS
	64	5320	-0.12	-0.80	PASS
	100	5500	-0.75	-2.23	PASS
	116	5580	3.27	2.87	PASS
	140	5700	-1.17	-2.39	PASS
	149	5745	-3.10	-3.63	PASS
	157	5785	1.67	0.65	PASS
	165	5825	-4.36	-4.23	PASS
11AC40 MIMO	38	5190	-5.81	-6.69	PASS
	46	5230	0.77	0.55	PASS
	54	5270	1.34	1.57	PASS
	62	5310	-5.75	-6.71	PASS
	102	5510	-5.32	-7.01	PASS
	110	5550	0.18	0.07	PASS
	134	5670	-5.77	-7.37	PASS
	151	5755	-0.56	-0.92	PASS
	159	5795	-0.81	-1.45	PASS
11AC80 MIMO	42	5210	-12.32	-12.85	PASS
	58	5290	-10.11	-10.26	PASS
	106	5530	-12.75	-13.69	PASS
	122	5610	-12.03	-12.06	PASS
	155	5775	-7.72	-8.94	PASS
11AC160 MIMO	50	5250	-14.34	-14.48	PASS
	114	5570	-16.76	-17.83	PASS

Note: CH50(5250MHz) of the full band (160MHz) both meet the requirements for 5150MHz-5250MHz and 5250MHz-5350MHz.



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4.7.1

Test plots

4.7.1.1

11A20_36 ANT 1

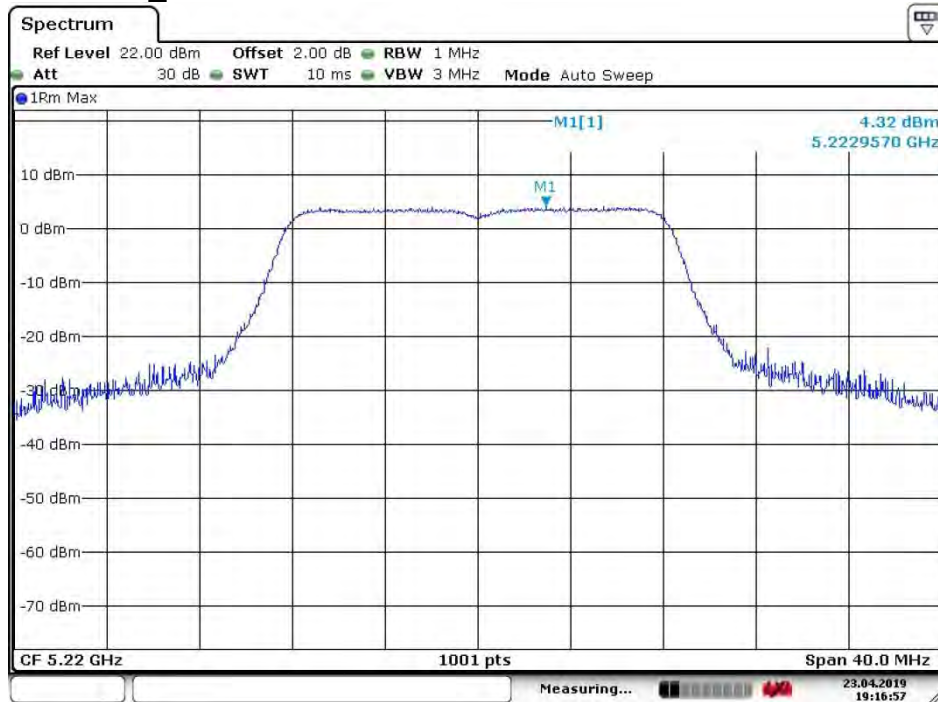


Date: 23 APR 2019 19:09:57



4.7.1.2

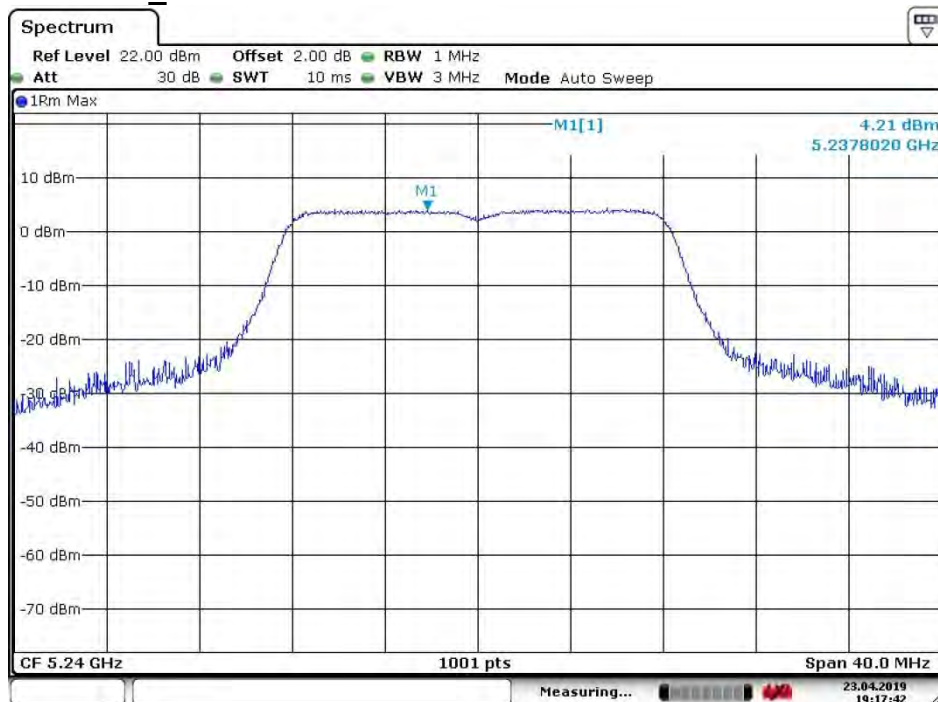
11A20_44 ANT 1



Date: 23 APR 2019 19:16:58

4.7.1.3

11A20_48 ANT 1

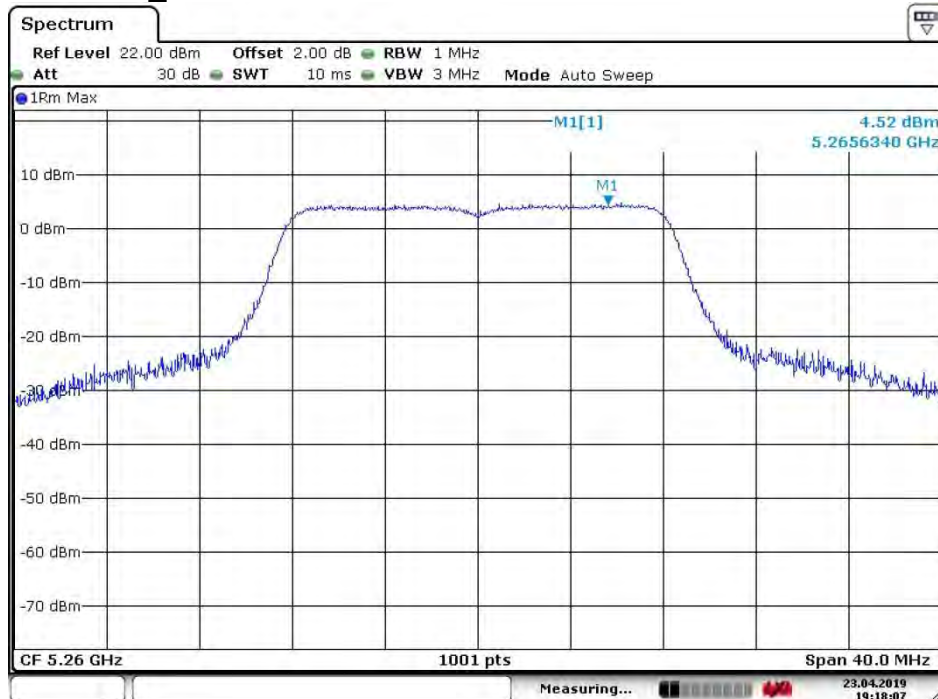


Date: 23 APR 2019 19:17:43



4.7.1.4

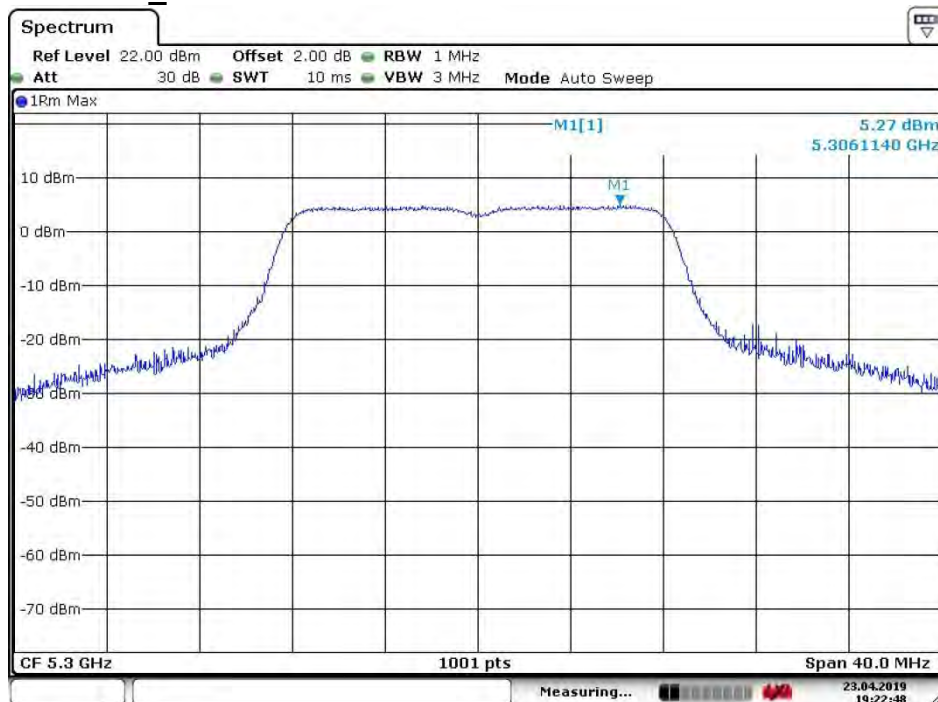
11A20_52 ANT 1



Date: 23 APR 2019 19:18:07

4.7.1.5

11A20_60 ANT 1

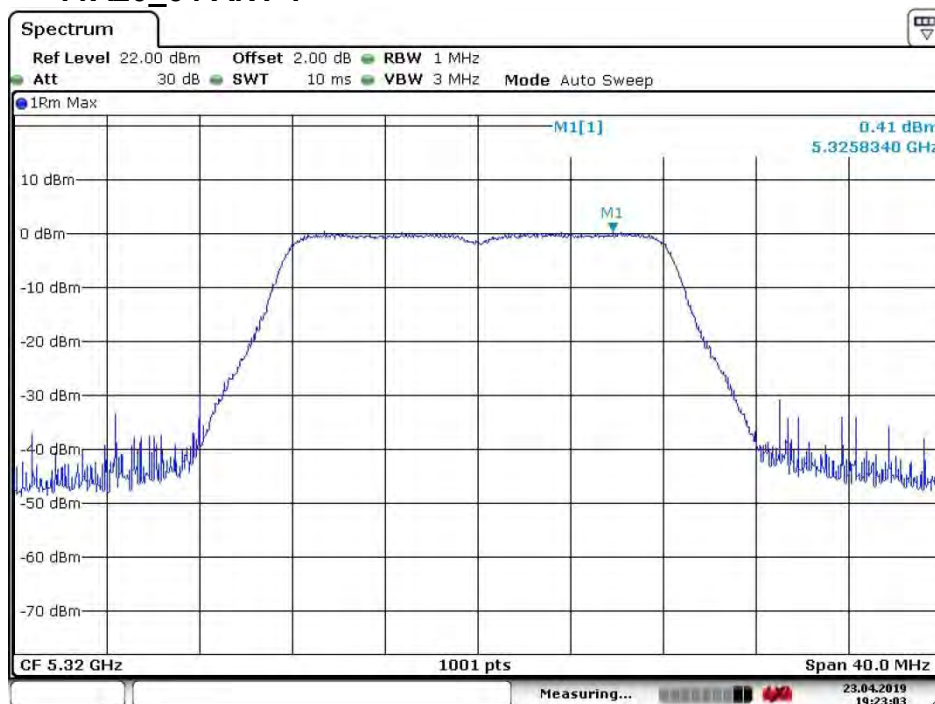


Date: 23 APR 2019 19:22:48



4.7.1.6

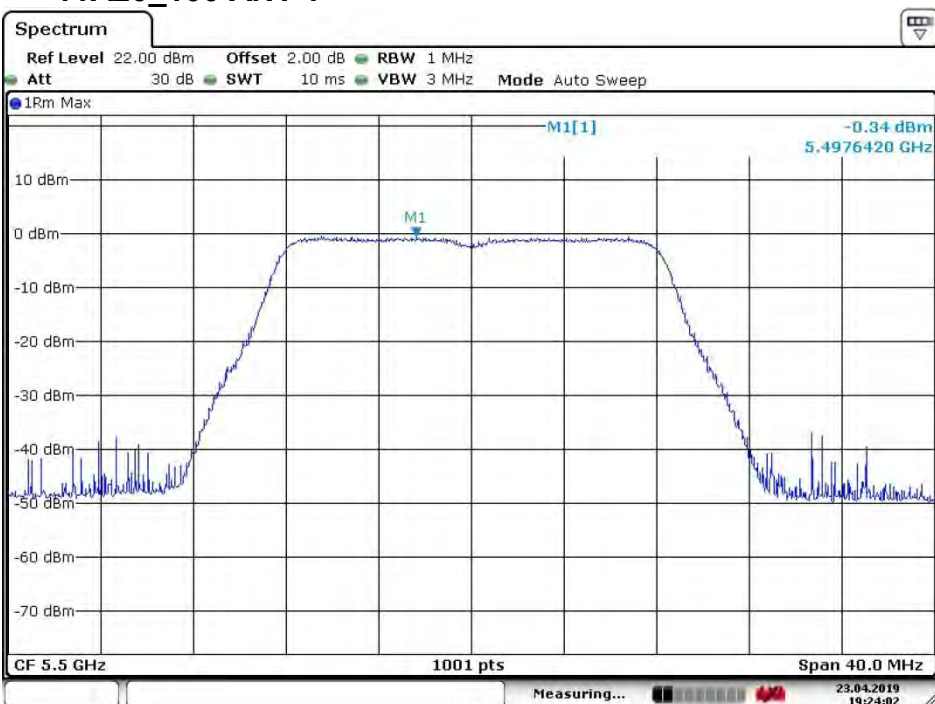
11A20_64 ANT 1



Date: 23.APR.2019 19:23:03

4.7.1.7

11A20_100 ANT 1

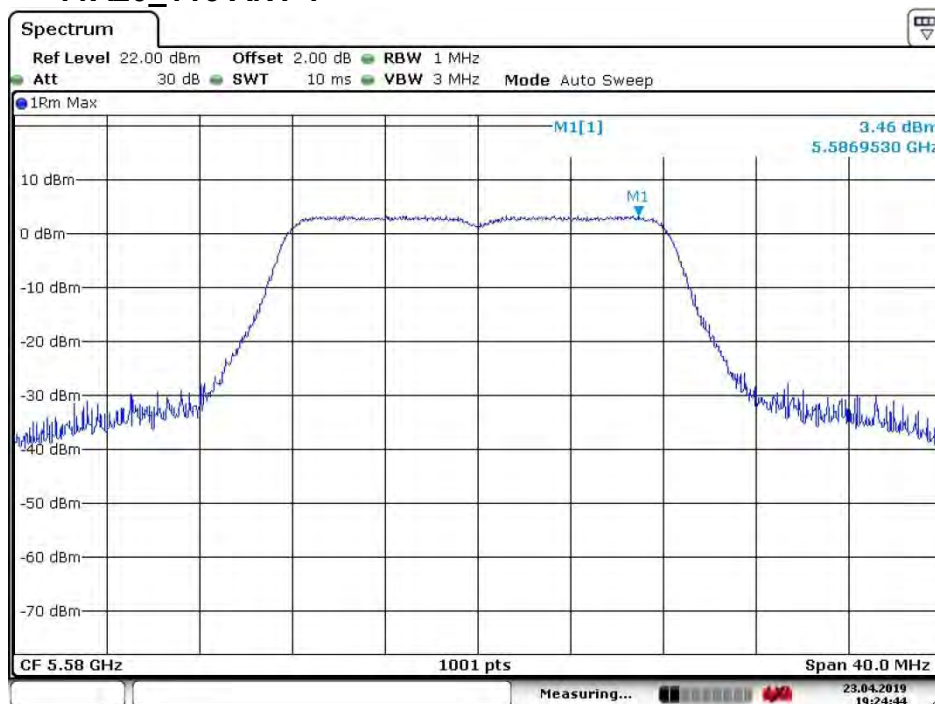


Date: 23.APR.2019 19:24:02



4.7.1.8

11A20_116 ANT 1



Date: 23.APR.2019 19:24:45

4.7.1.9

11A20_140 ANT 1

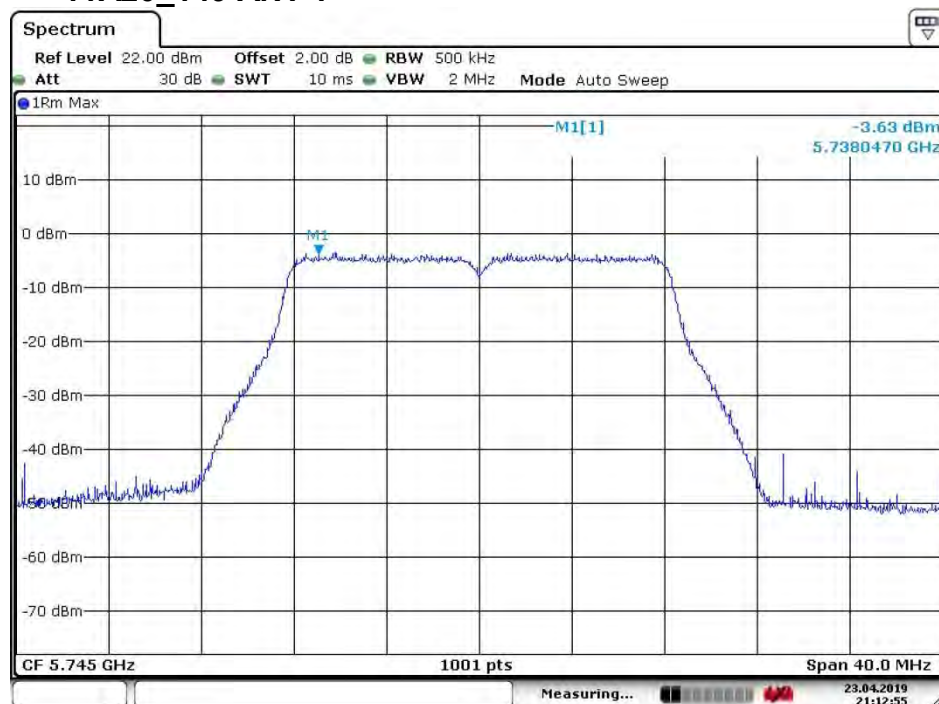


Date: 23.APR.2019 19:25:52



4.7.1.10

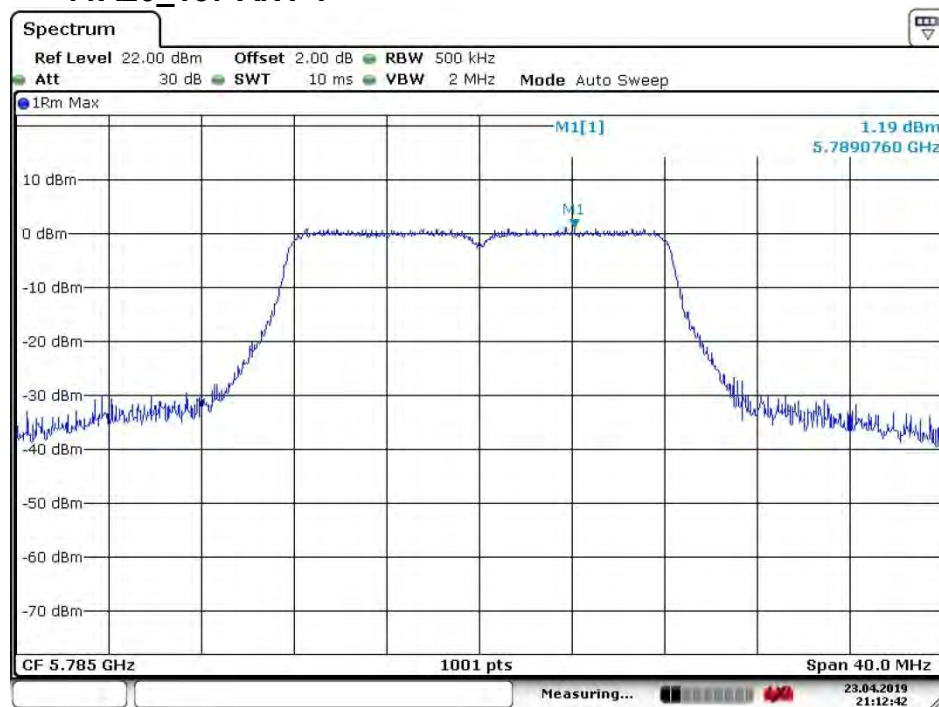
11A20_149 ANT 1



Date: 23.APR.2019 21:12:55

4.7.1.11

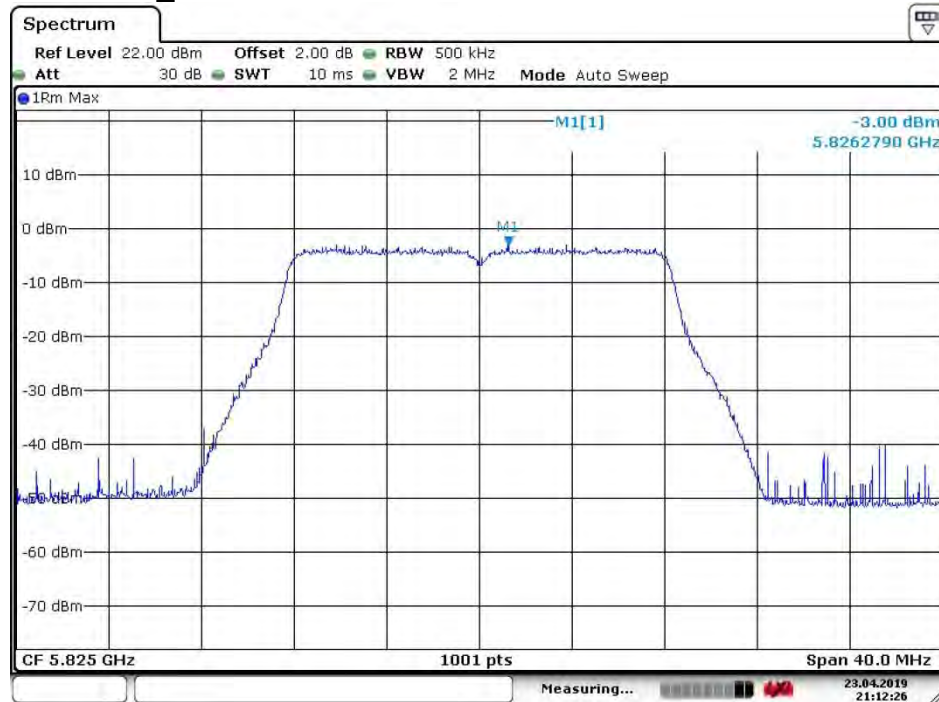
11A20_157 ANT 1



Date: 23.APR.2019 21:12:42



4.7.1.12 11A20_165 ANT 1



Date: 23.APR.2019 21:12:26

4.7.1.13 11N20_36 ANT 1

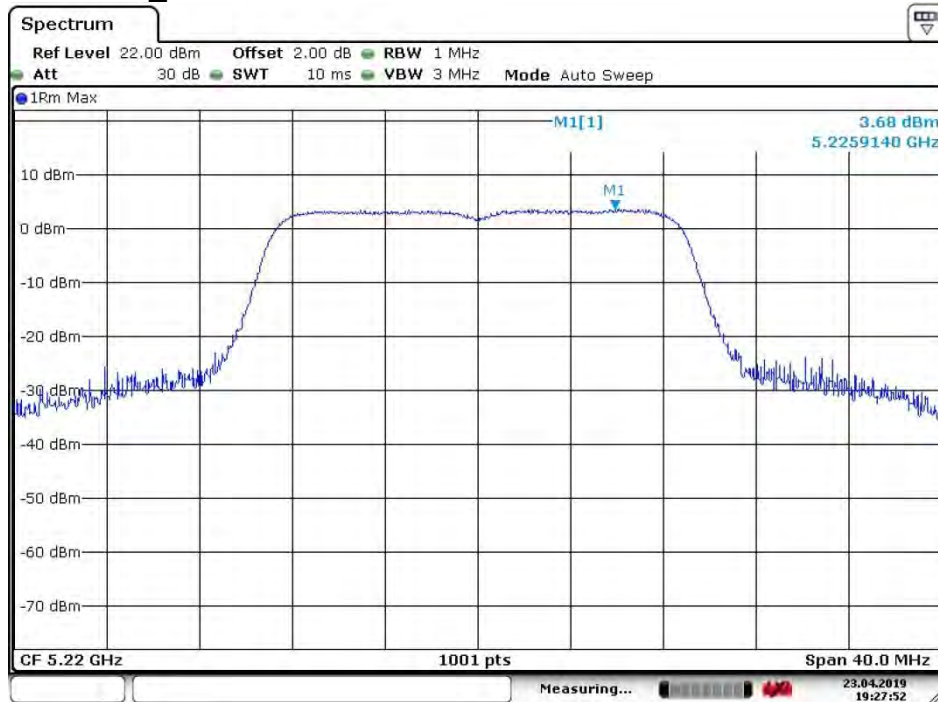


Date: 23.APR.2019 19:26:48



4.7.1.14

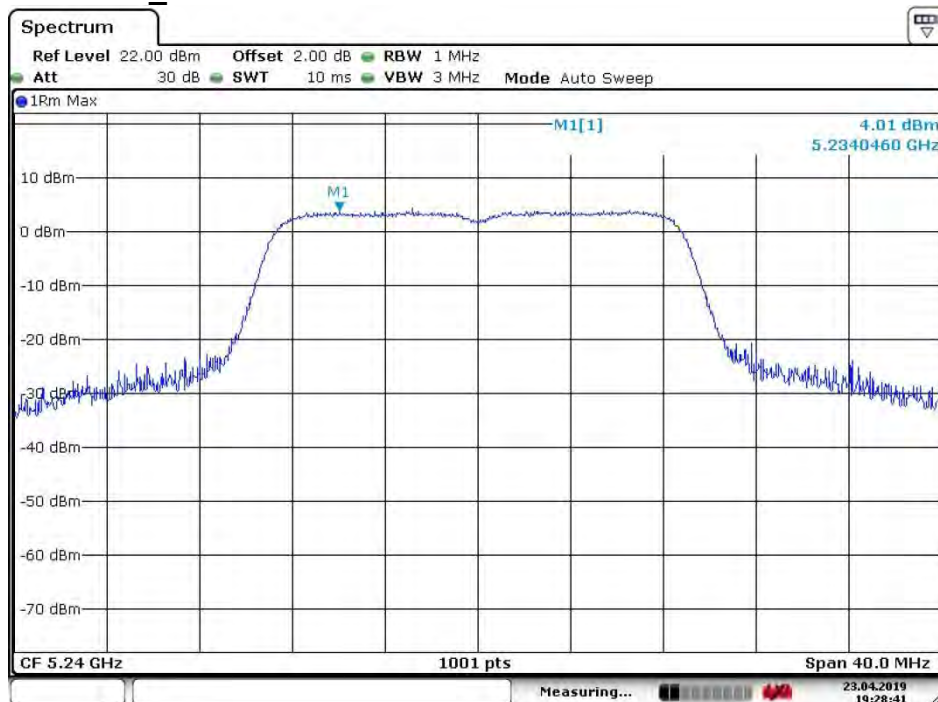
11N20_44 ANT 1



Date: 23 APR 2019 19:27:52

4.7.1.15

11N20_48 ANT 1

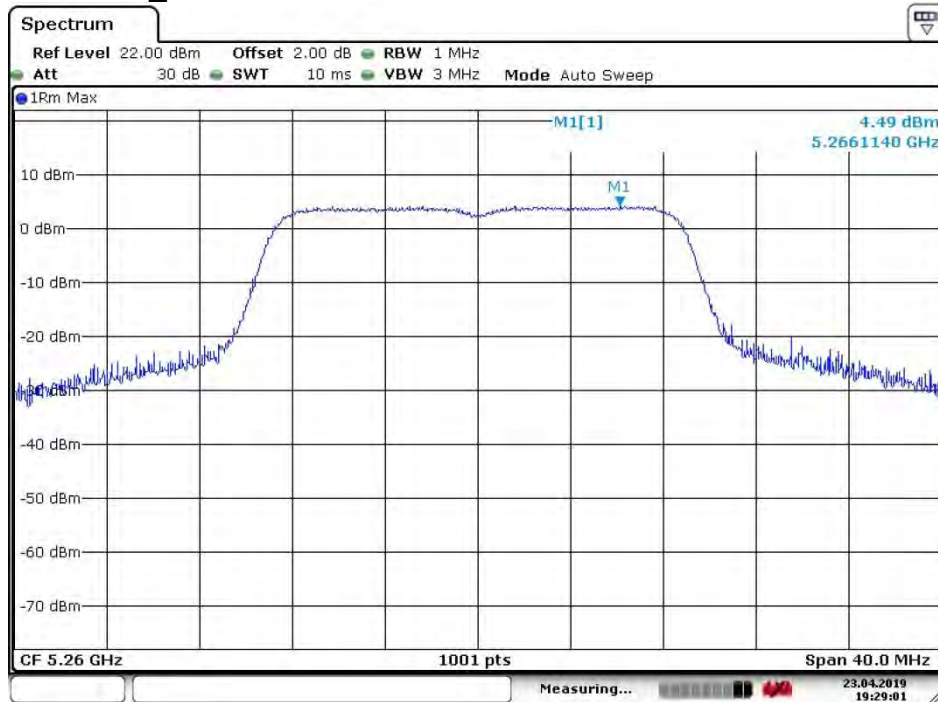


Date: 23 APR 2019 19:28:42



4.7.1.16

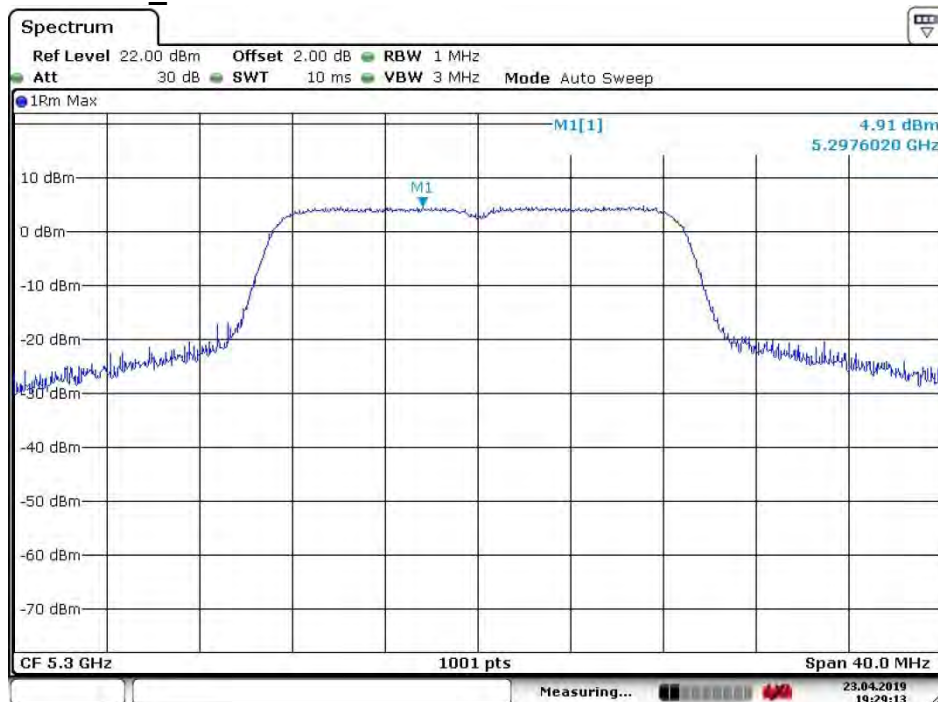
11N20_52 ANT 1



Date: 23 APR 2019 19:29:01

4.7.1.17

11N20_60 ANT 1

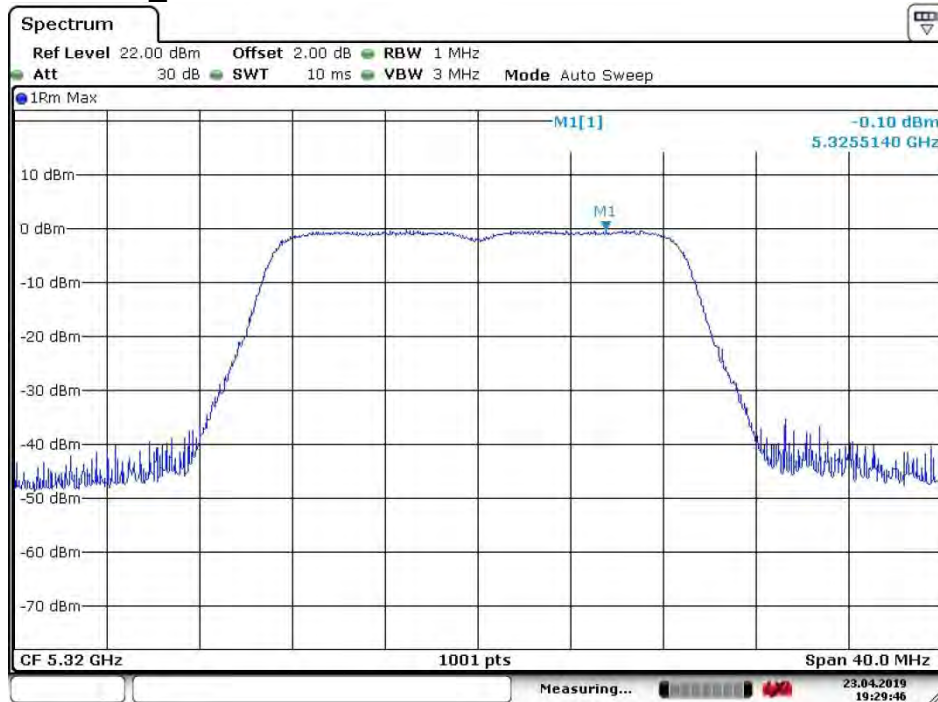


Date: 23 APR 2019 19:29:13



4.7.1.18

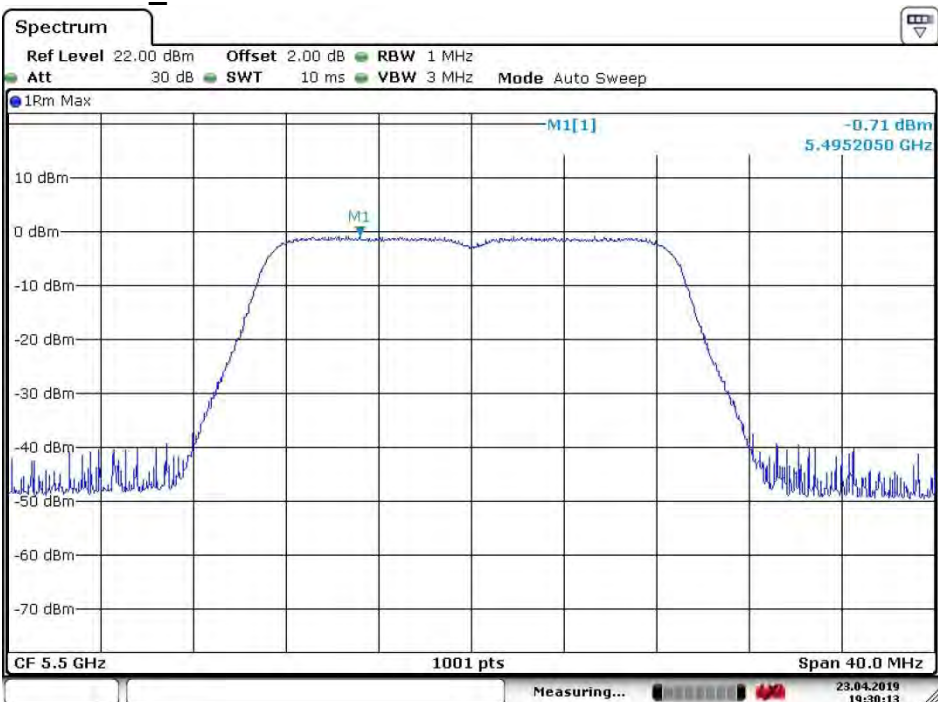
11N20_64 ANT 1



Date: 23.APR.2019 19:29:46

4.7.1.19

11N20_100 ANT 1

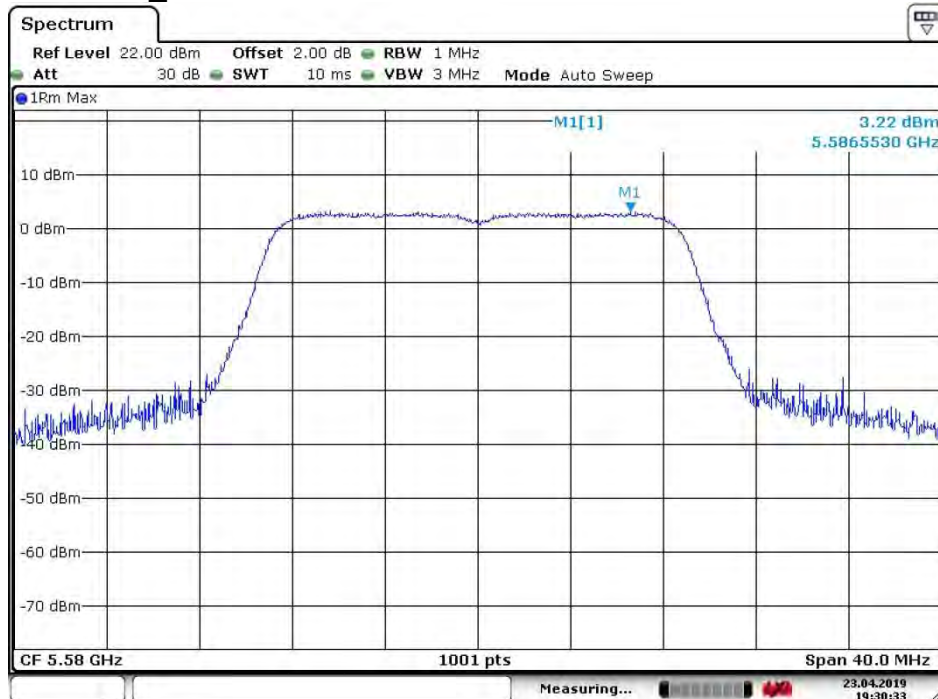


Date: 23.APR.2019 19:30:13



4.7.1.20

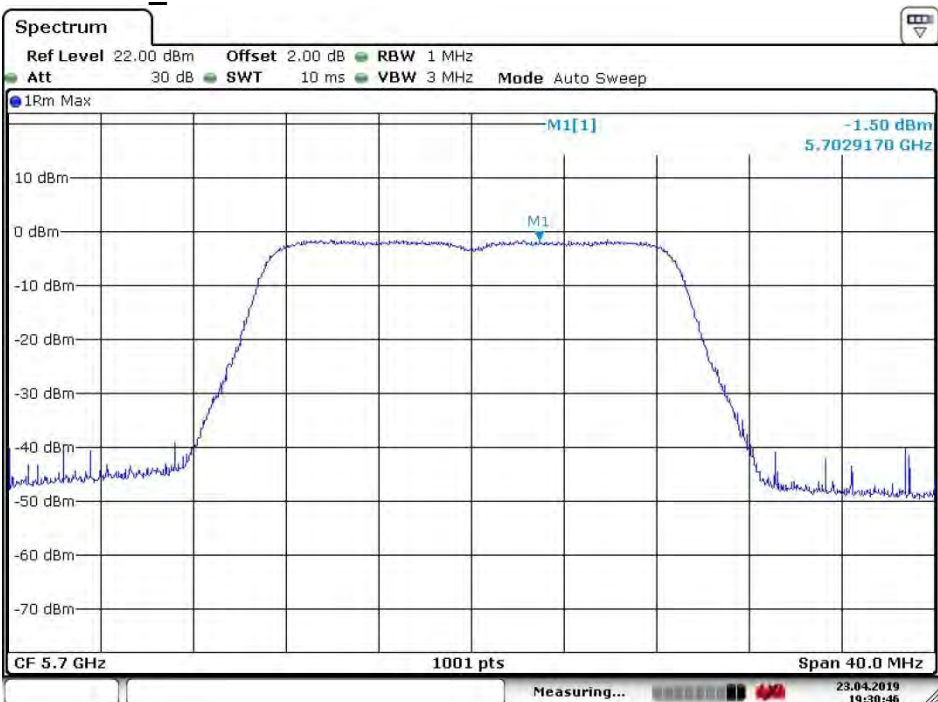
11N20_116 ANT 1



Date: 23.APR.2019 19:30:33

4.7.1.21

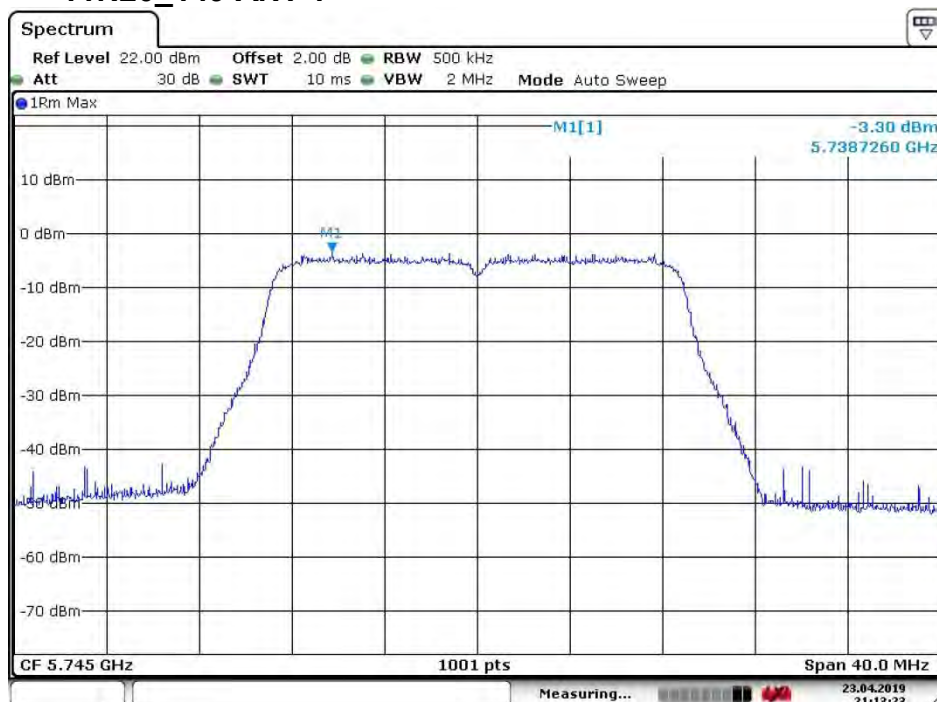
11N20_140 ANT 1



Date: 23.APR.2019 19:30:47

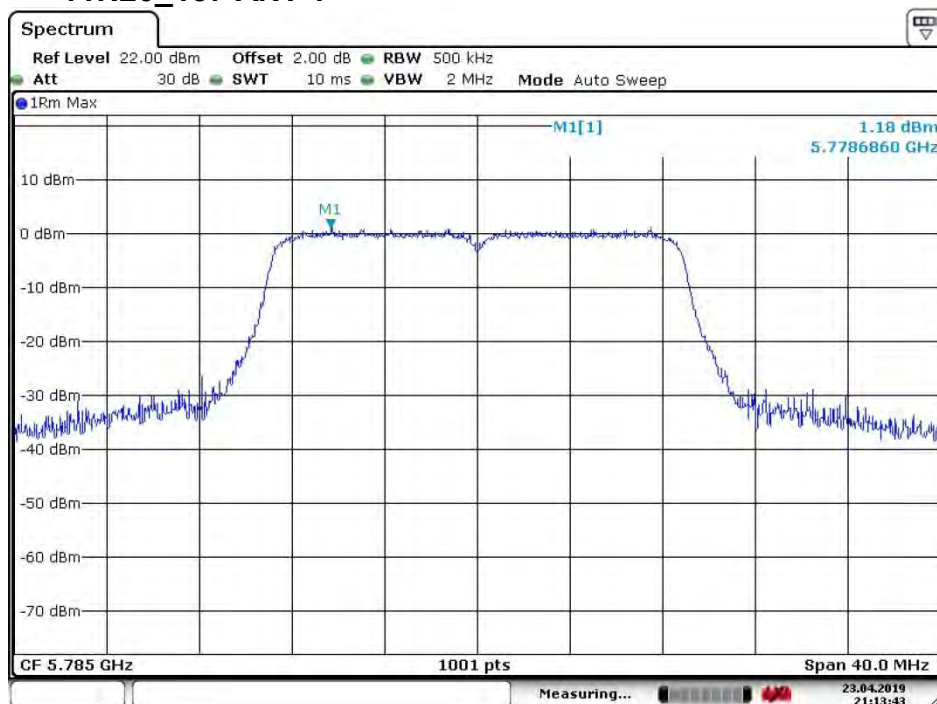


4.7.1.22 11N20_149 ANT 1



Date: 23.APR.2019 21:13:23

4.7.1.23 11N20_157 ANT 1



Date: 23.APR.2019 21:13:44

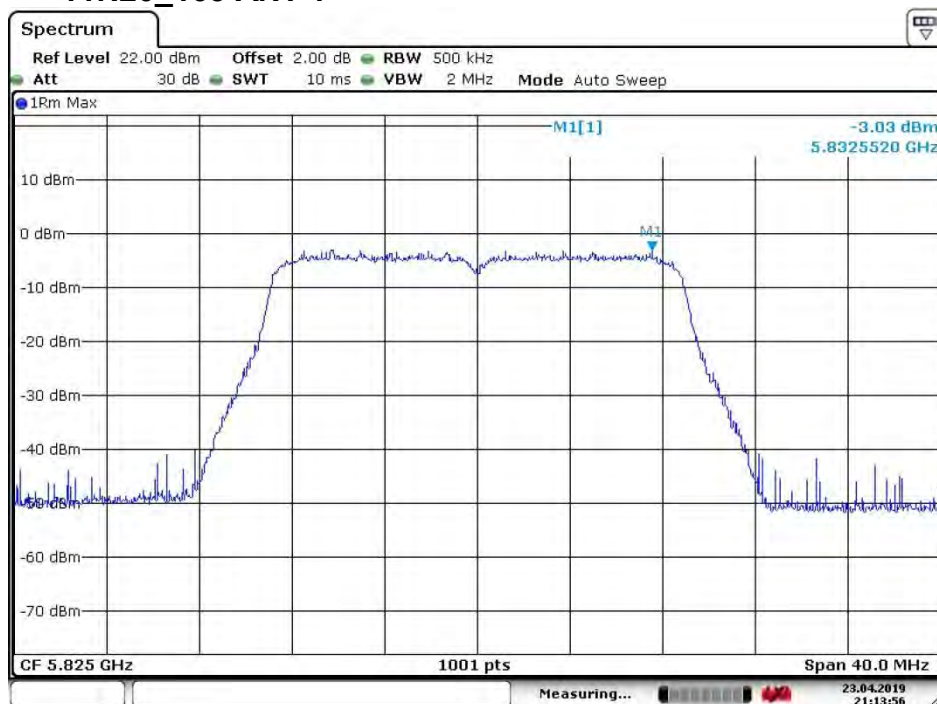


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4.7.1.24

11N20_165 ANT 1



Date: 23.APR.2019 21:13:56

4.7.1.25

11N40_38 ANT 1



Date: 23.APR.2019 20:47:25



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4.7.1.26

11N40_46 ANT 1



Date: 23 APR 2019 20:48:13

4.7.1.27

11N40_54 ANT 1



Date: 23 APR 2019 20:48:41



4.7.1.28

11N40_62 ANT 1



Date: 23 APR 2019 20:48:56

4.7.1.29

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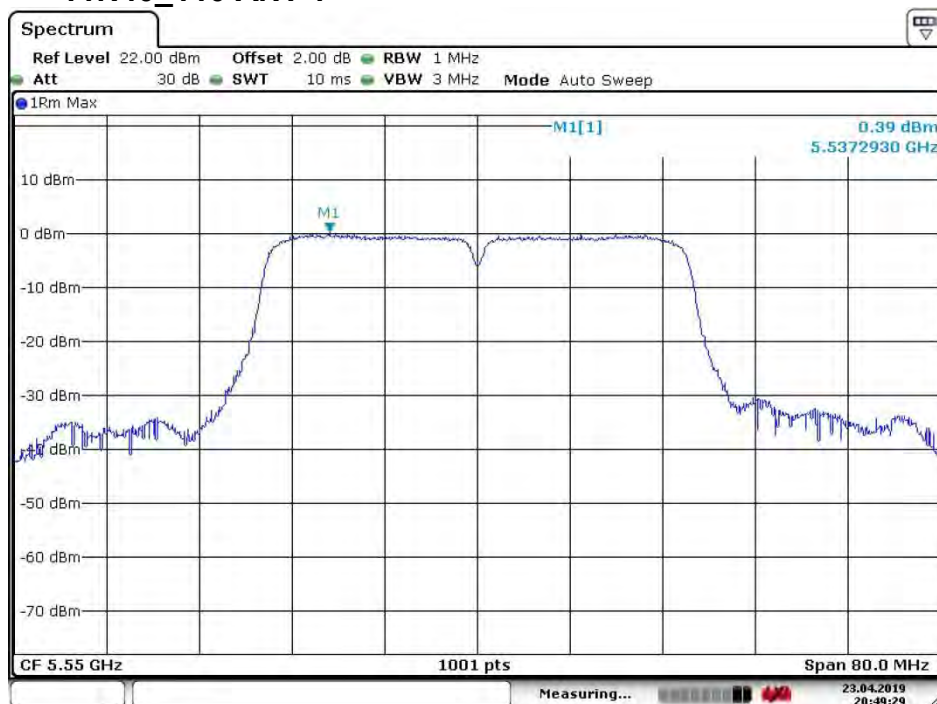


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4.7.1.30

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Date: 23.APR.2019 20:49:30

4.7.1.31

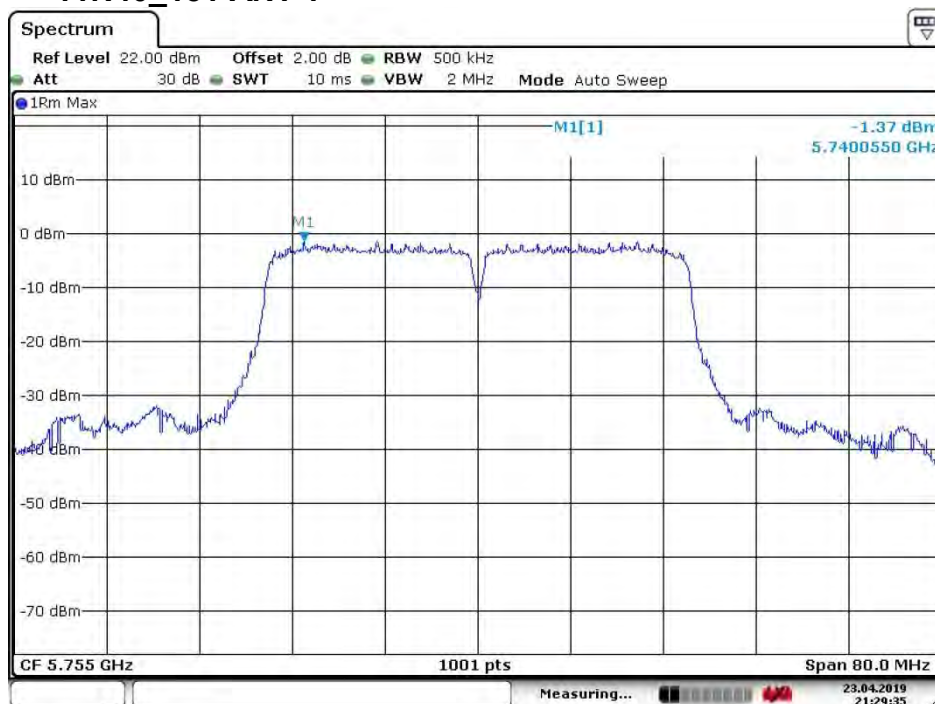
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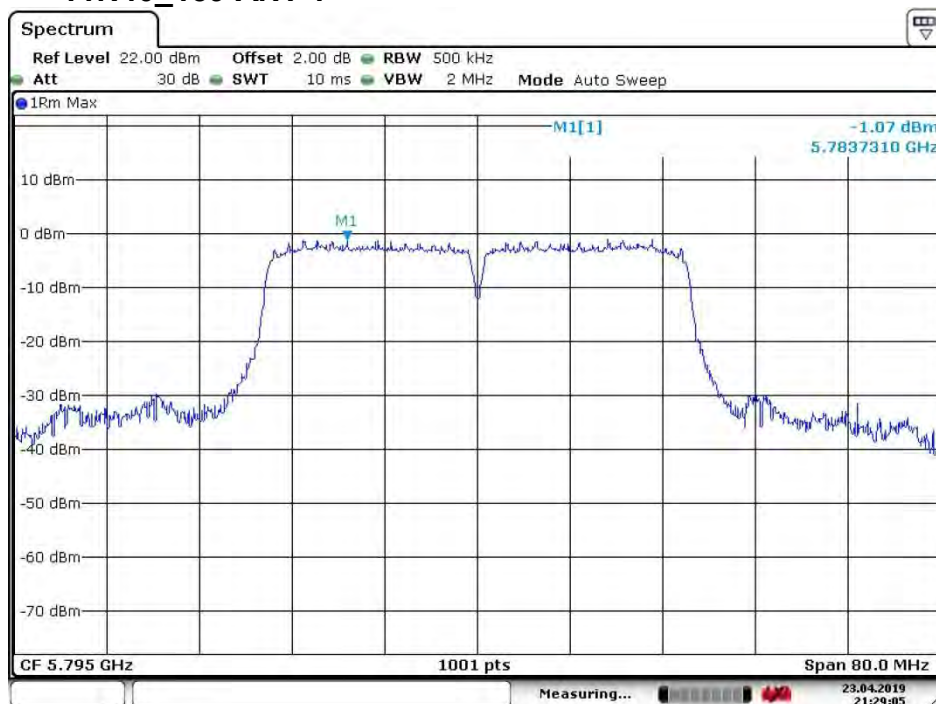


4.7.1.32 11N40_151 ANT 1



Date: 23.APR.2019 21:29:35

4.7.1.33 11N40_159 ANT 1



Date: 23.APR.2019 21:29:06



4.7.1.34

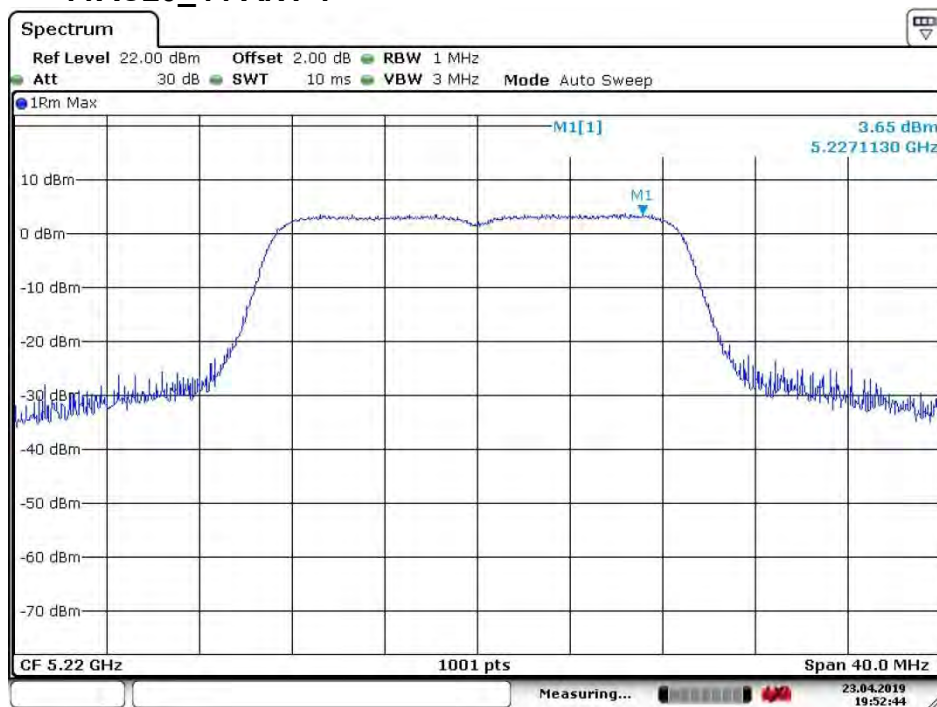
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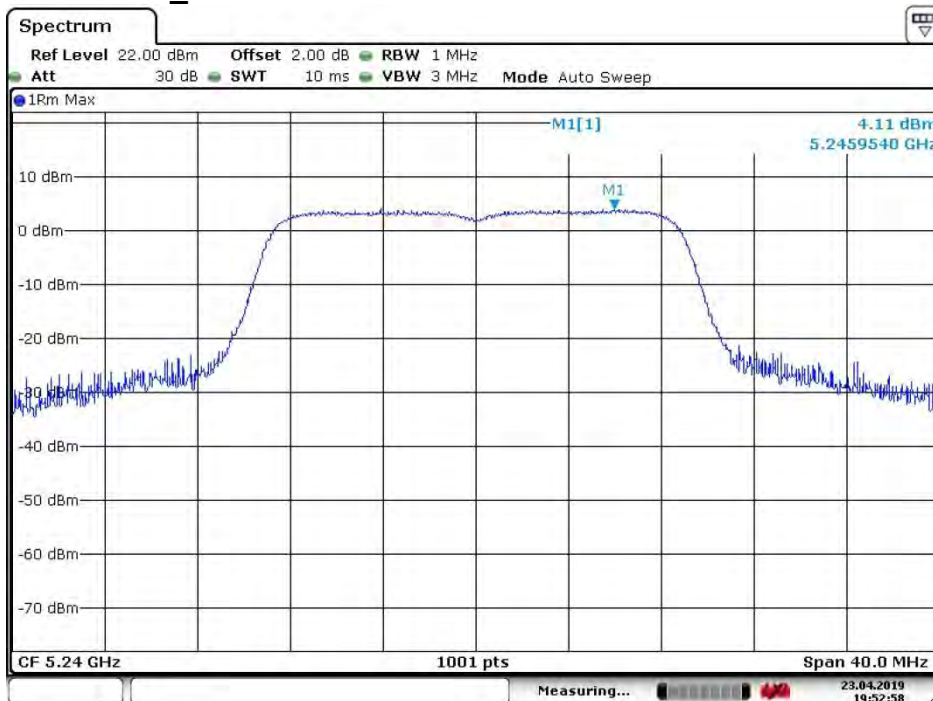


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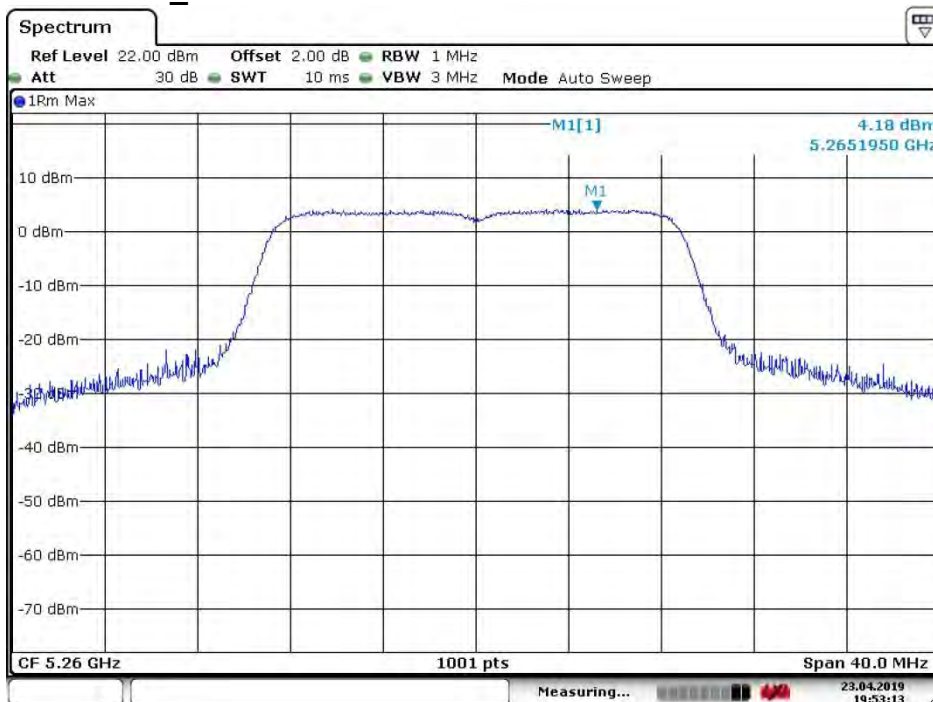
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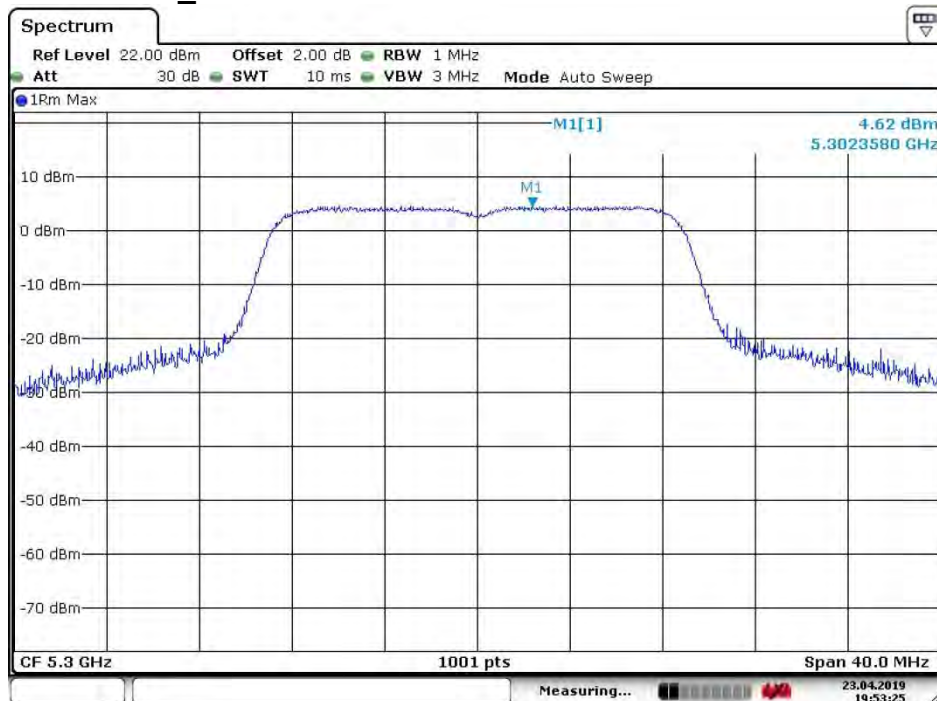


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4.7.1.38

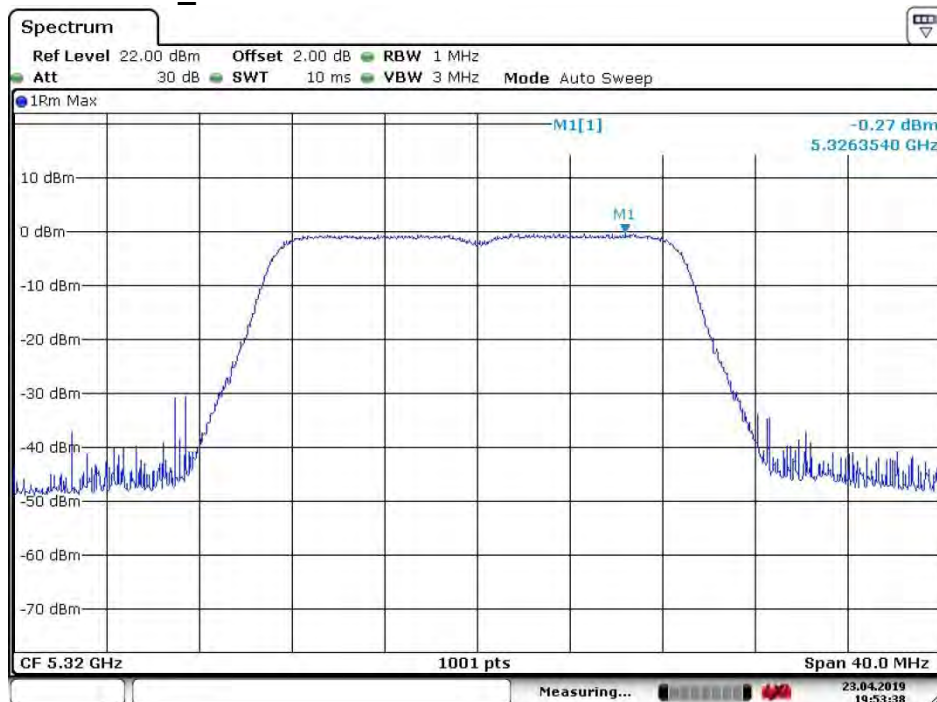
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4.7.1.39

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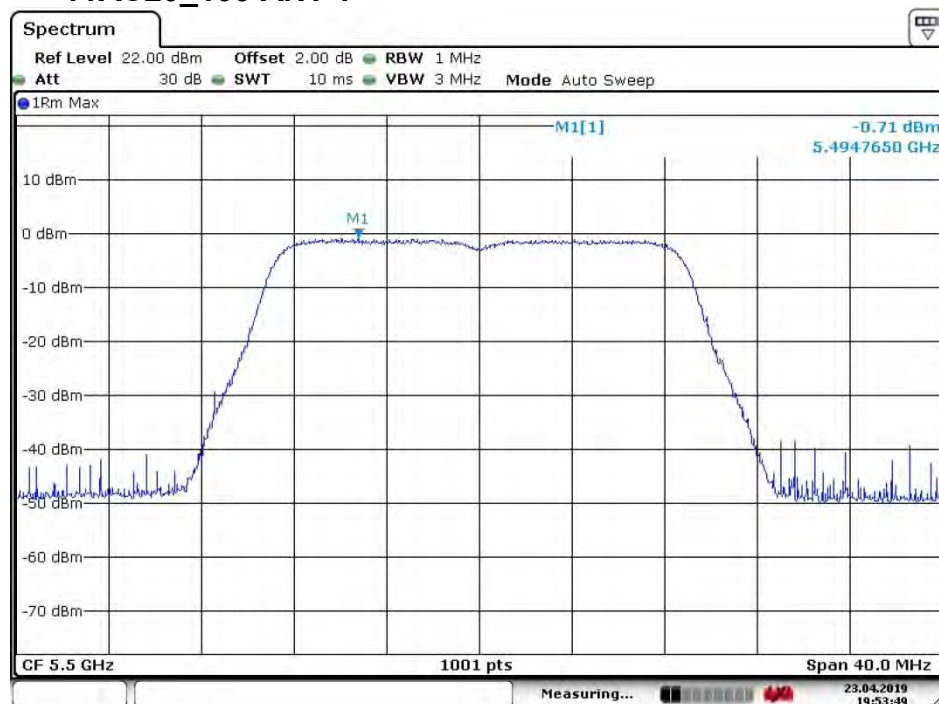


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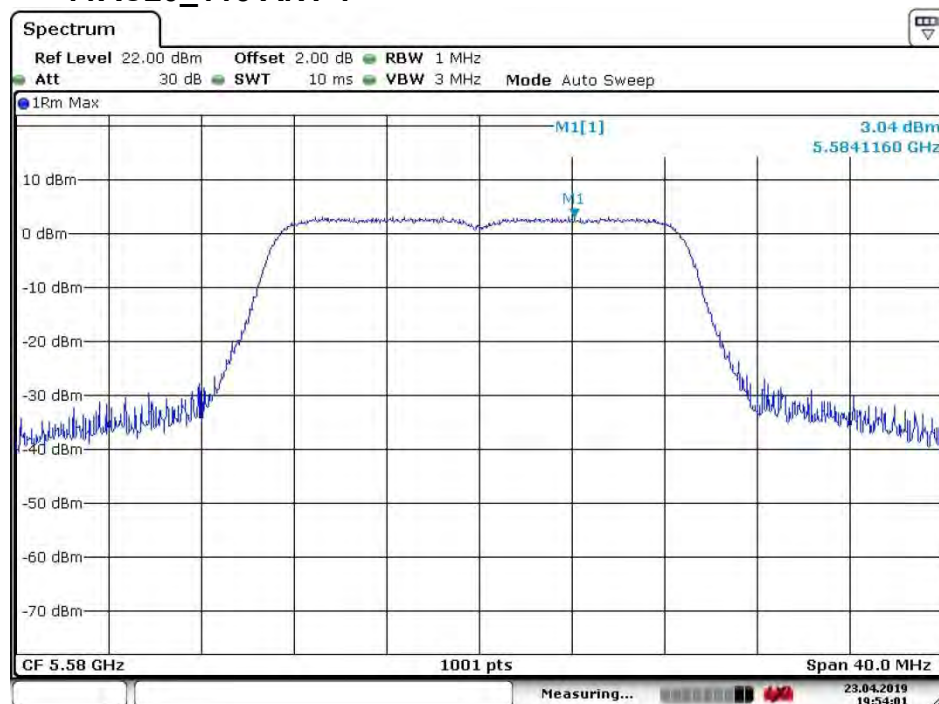
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4.7.1.41

11AC20_116 ANT 1



Date: 23.APR.2019 19:54:02



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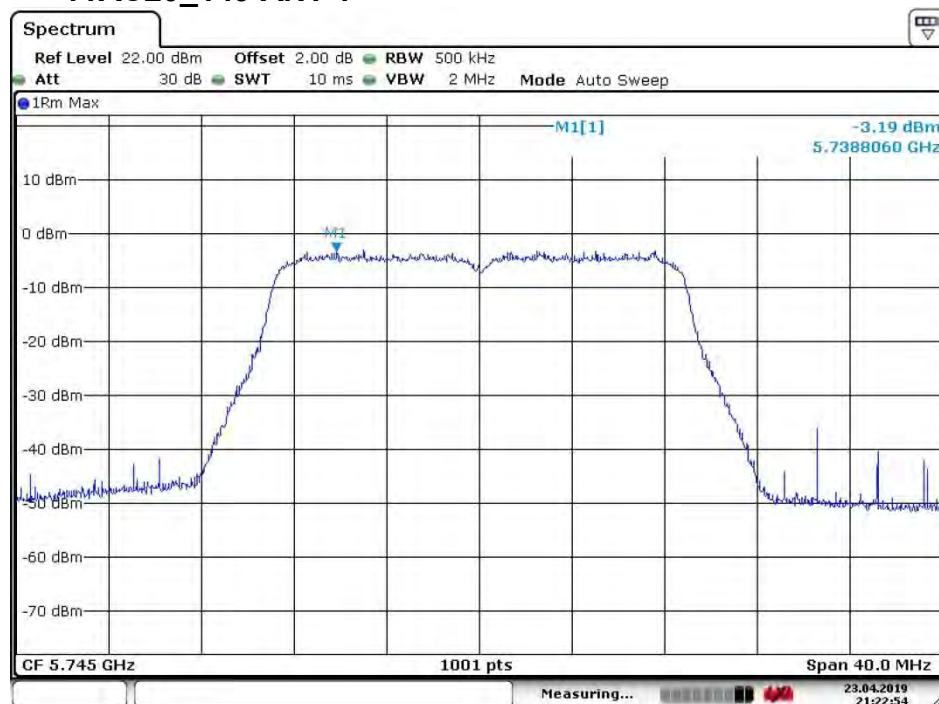
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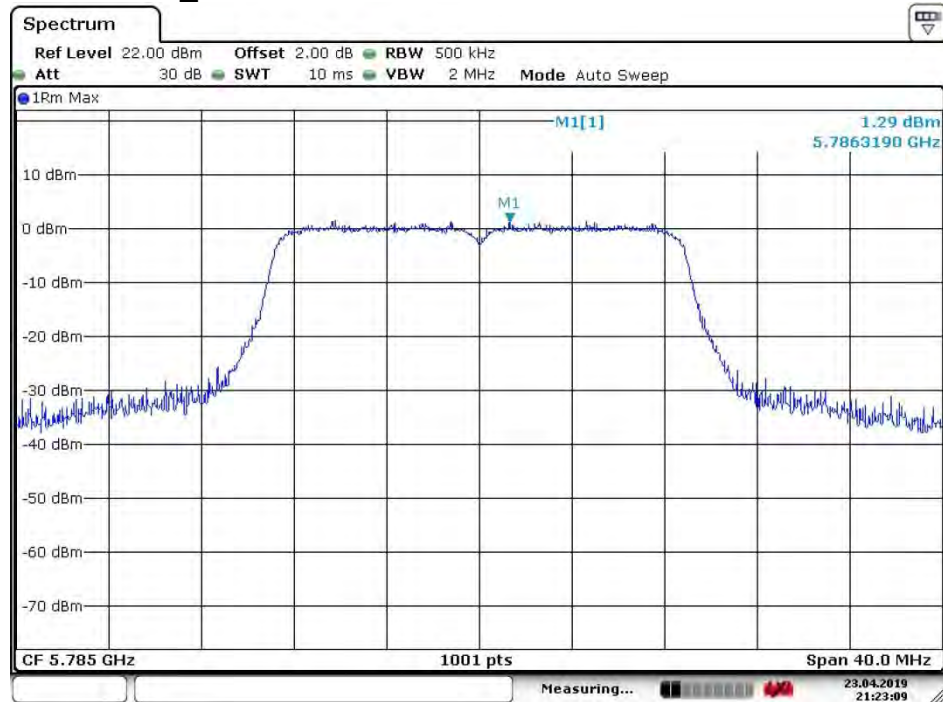
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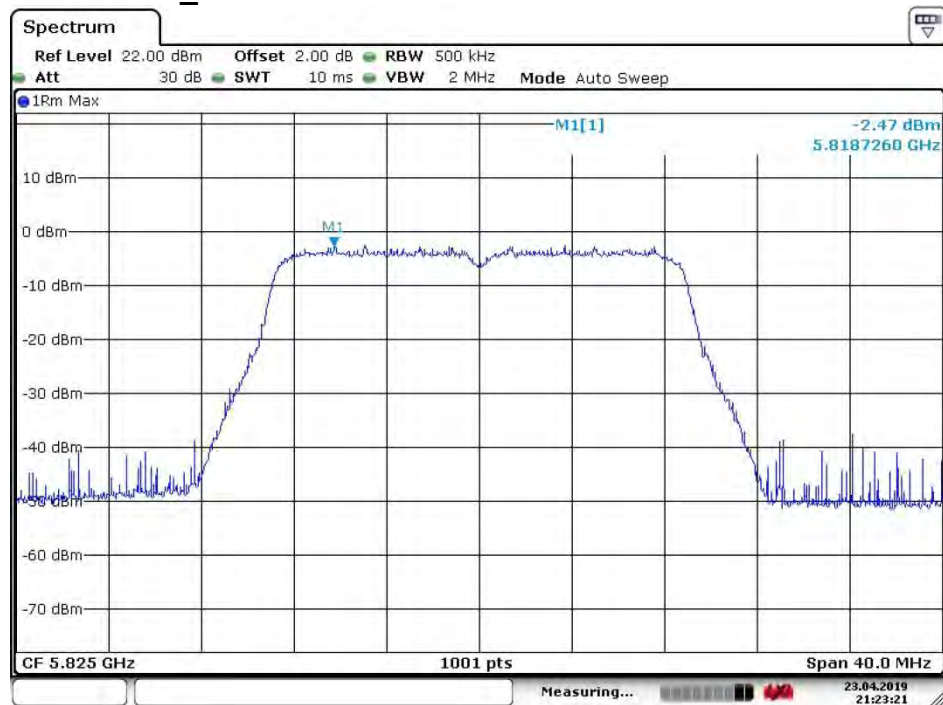


4.7.1.44 11AC20_157 ANT 1



Date: 23.APR.2019 21:23:10

4.7.1.45 11AC20_165 ANT 1



Date: 23.APR.2019 21:23:22



4.7.1.46

11AC40_38 ANT 1



Date: 23 APR 2019 20:59:17

4.7.1.47

11AC40_46 ANT 1

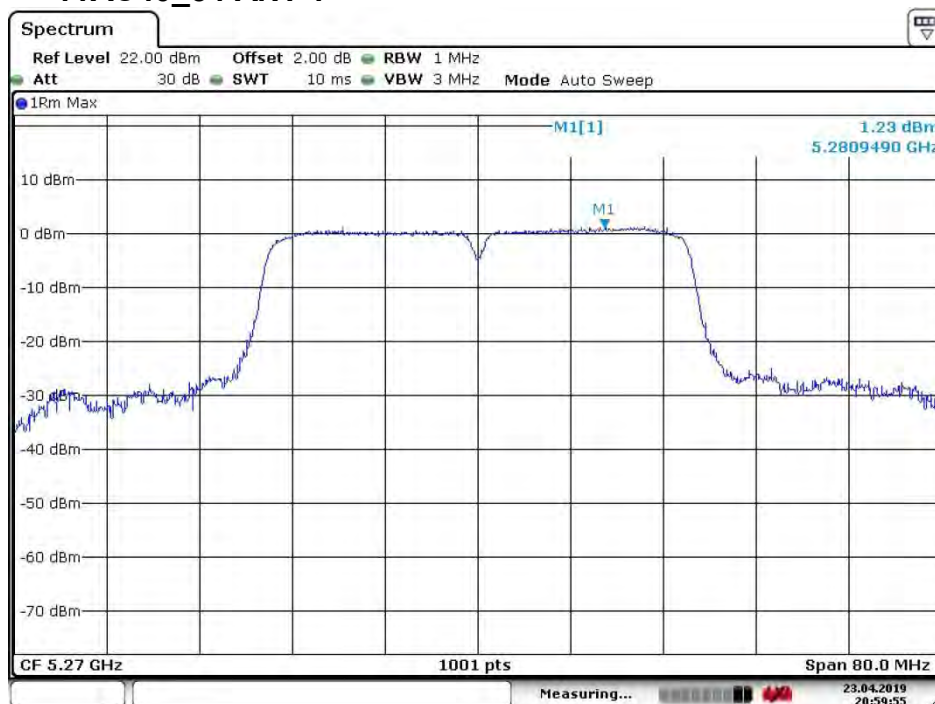


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4.7.1.48

11AC40_54 ANT 1



Date: 23 APR 2019 20:59:55

4.7.1.49

11AC40_62 ANT 1



Date: 23 APR 2019 21:00:10



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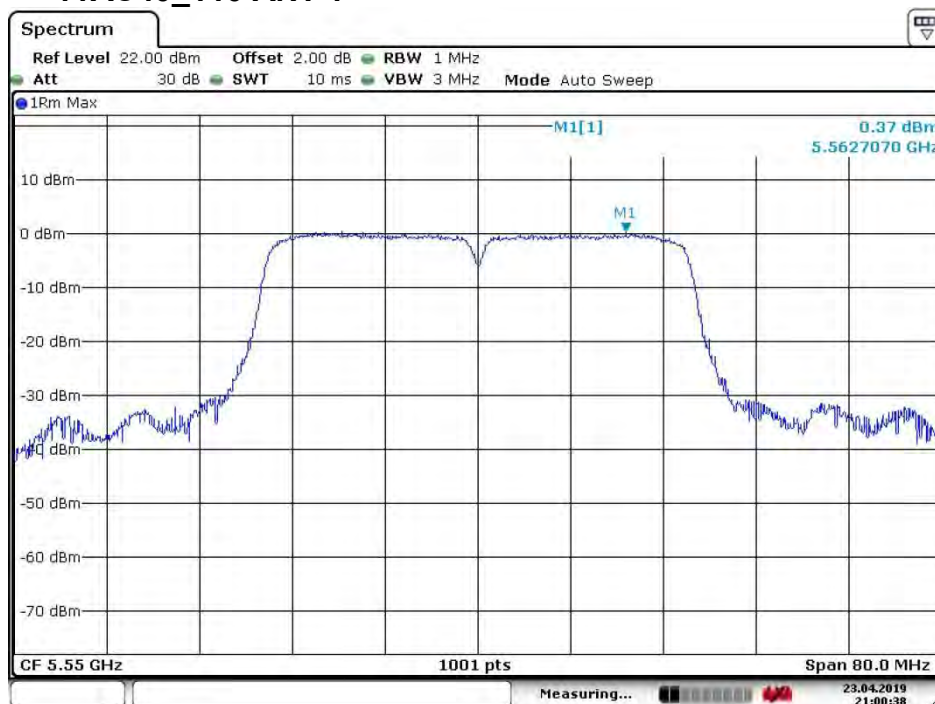
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Date: 23 APR 2019 21:00:25

4.7.1.51

11AC40_110 ANT 1



Date: 23 APR 2019 21:00:38



4.7.1.52

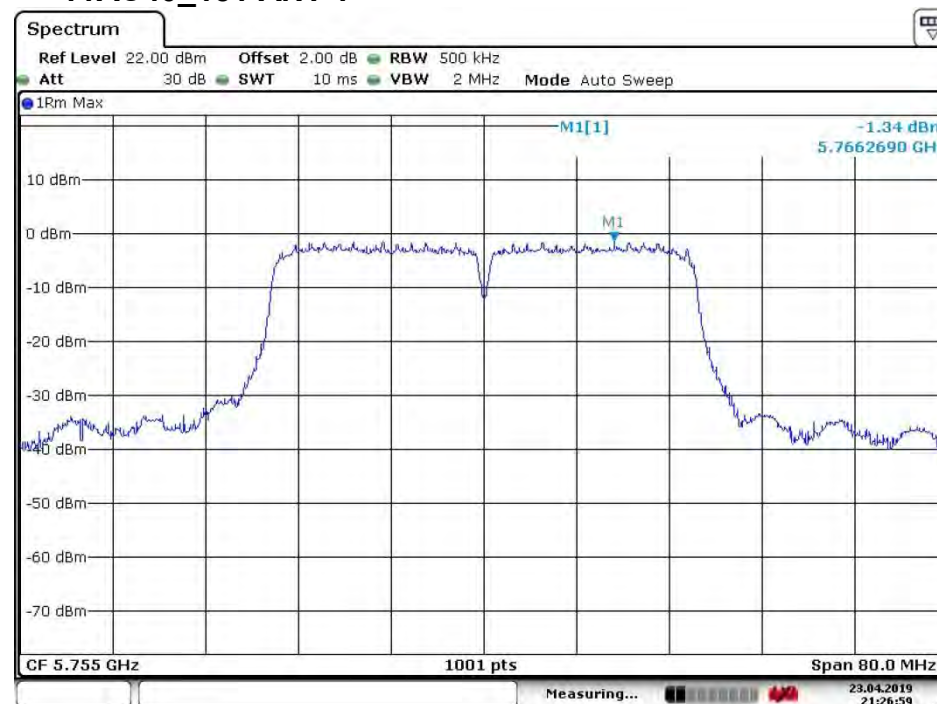
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4.7.1.53

11AC40_151 ANT 1



Date: 23 APR 2019 21:27:00

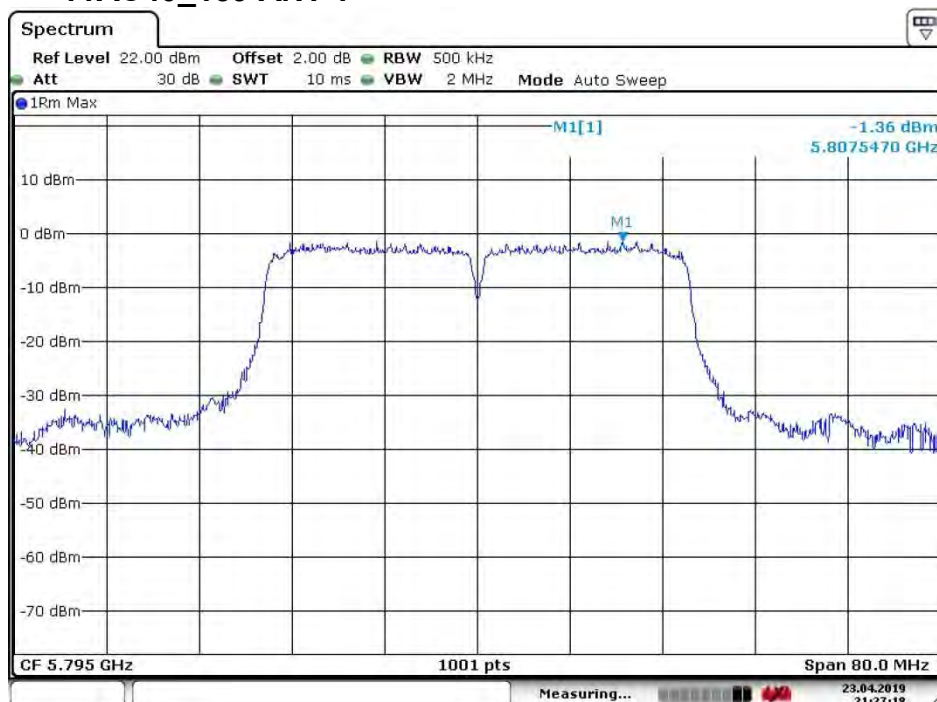


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4.7.1.54

11AC40_159 ANT 1



Date: 23.APR.2019 21:27:18

4.7.1.55

11AC80_42 ANT 1



Date: 23.APR.2019 21:05:09



4.7.1.56

11AC80_58 ANT 1



Date: 23.APR.2019 21:05:27

4.7.1.57

11AC80_106 ANT 1



Date: 23.APR.2019 21:05:38



4.7.1.58

11AC80_138 ANT 1



Date: 23.APR.2019 21:05:53

4.7.1.59

11AC80_155 ANT 1



Date: 23.APR.2019 21:30:06



4.7.1.60

11AC160_50 ANT 1



Date: 23.APR.2019 21:08:13

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11AC160_114 ANT 1



Date: 23.APR.2019 21:08:37



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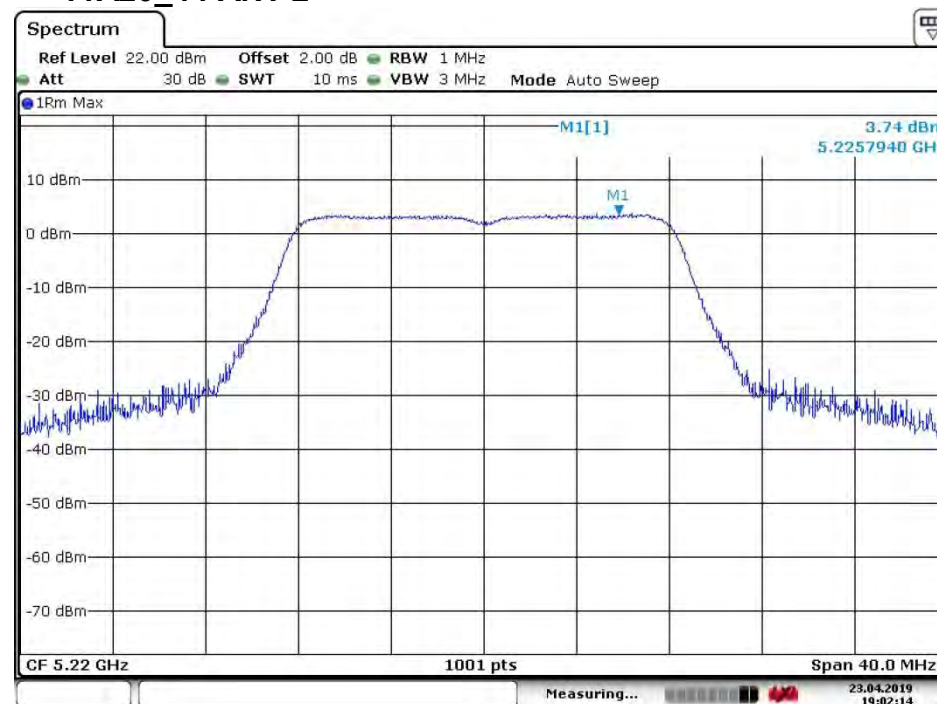
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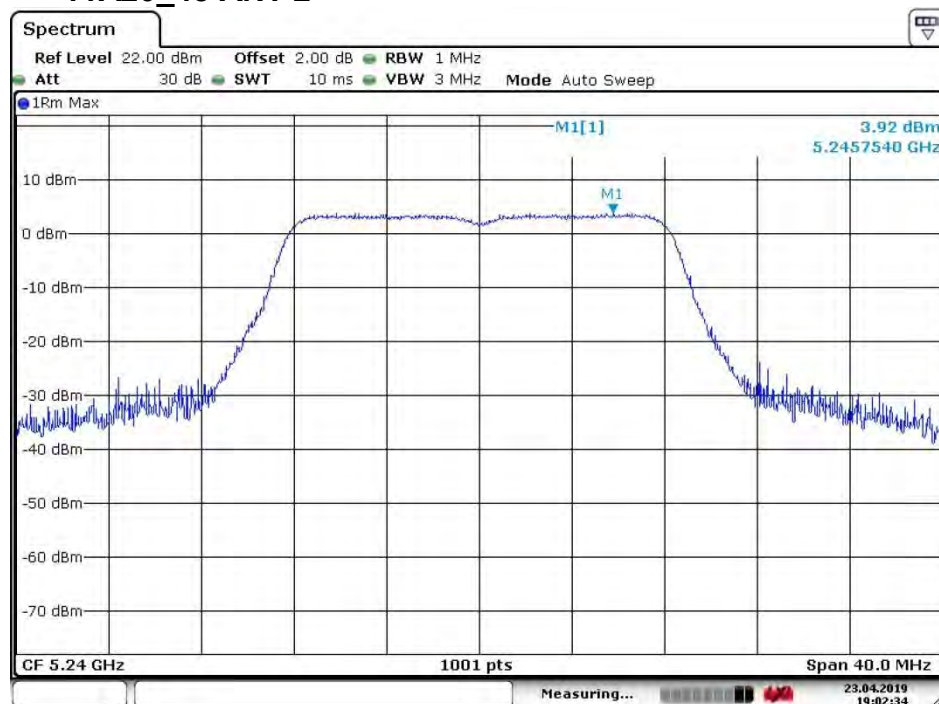


Date: 23. APR. 2019 19:02:14



4.7.1.64

11A20_48 ANT 2



Date: 23.APR.2019 19:02:34

4.7.1.65

11A20_52 ANT 2



Date: 23.APR.2019 19:07:21



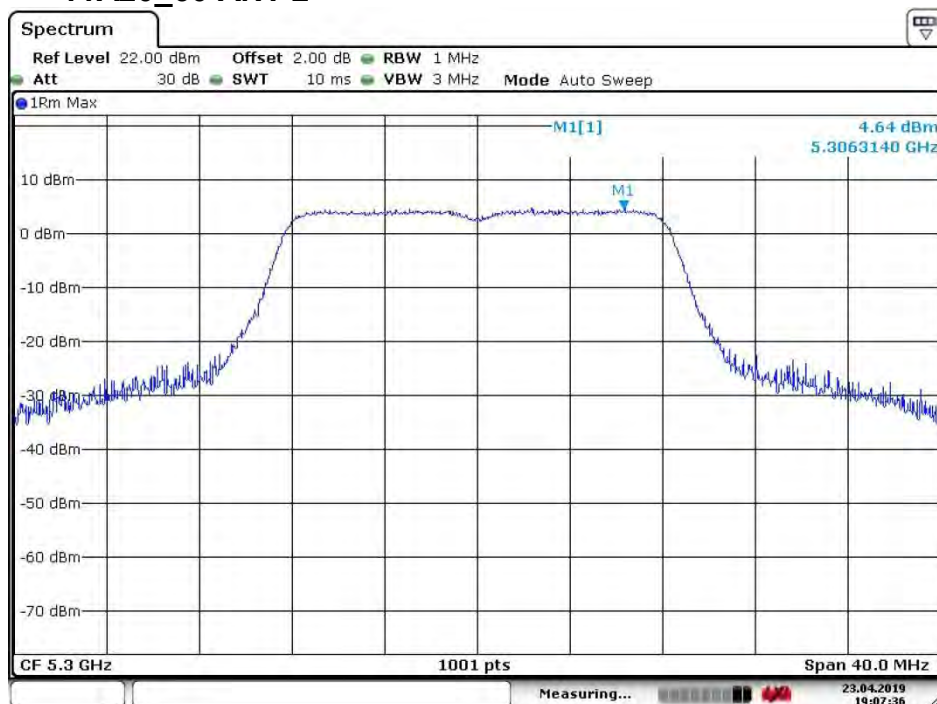
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 Shenzhen Branch

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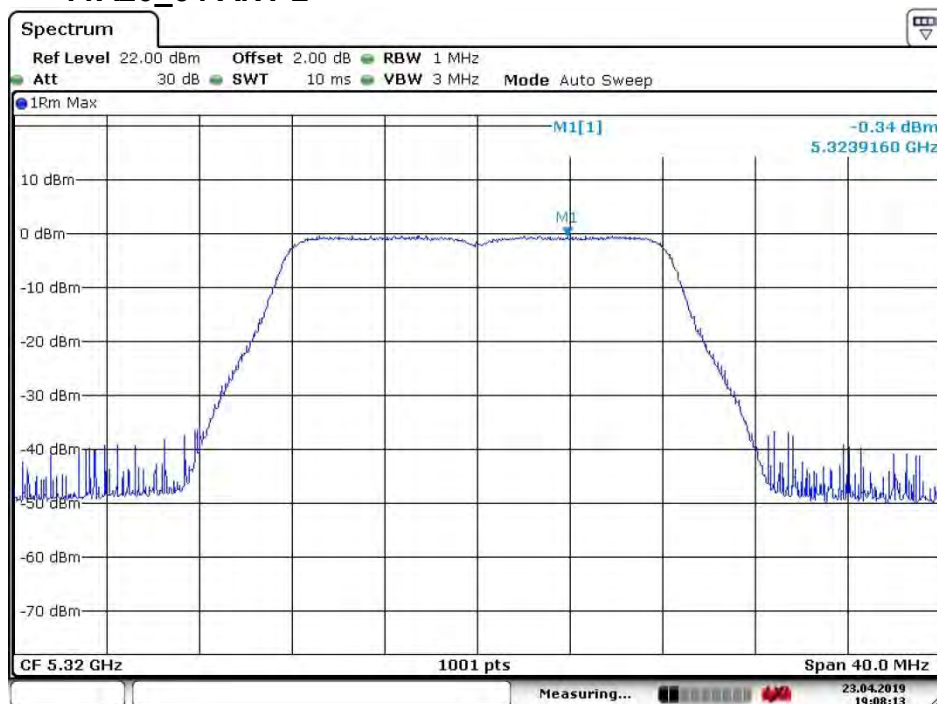
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Date: 23.APR.2019 19:07:36

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Date: 23.APR.2019 19:08:14



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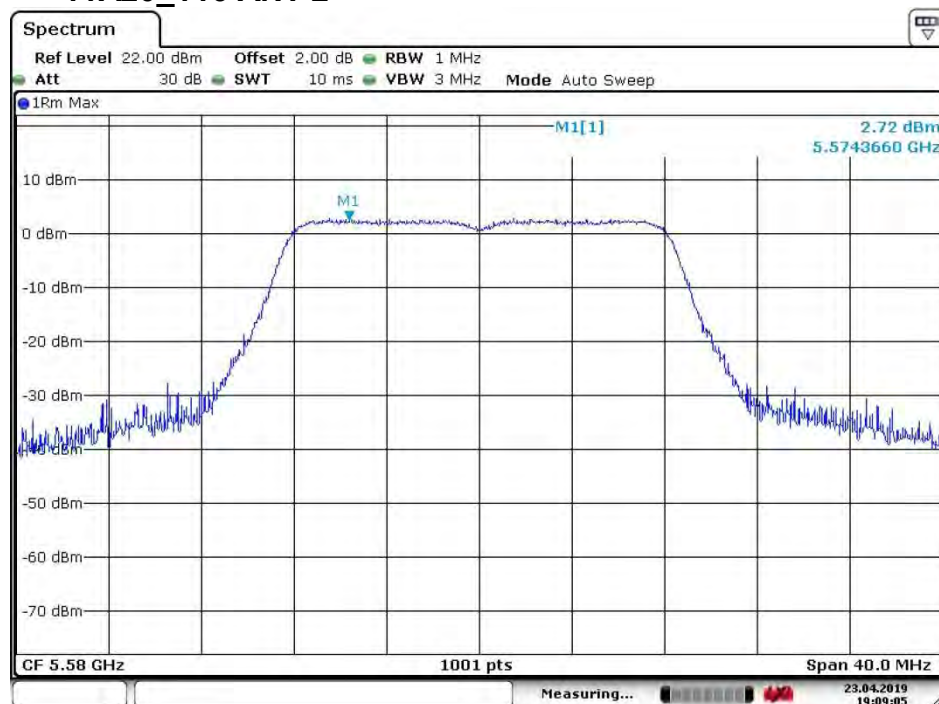
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Date: 23.APR.2019 19:08:49

4.7.1.69

11A20_116 ANT 2



Date: 23.APR.2019 19:09:05



4.7.1.70

11A20_140 ANT 2



Date: 23.APR.2019 19:09:27

4.7.1.71

11A20_149 ANT 2

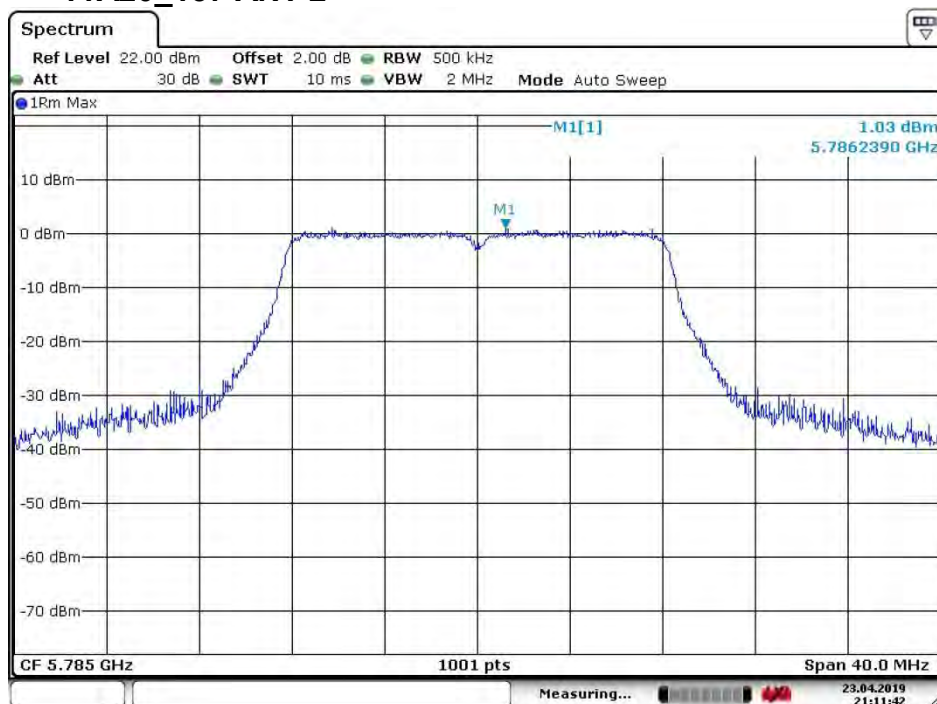


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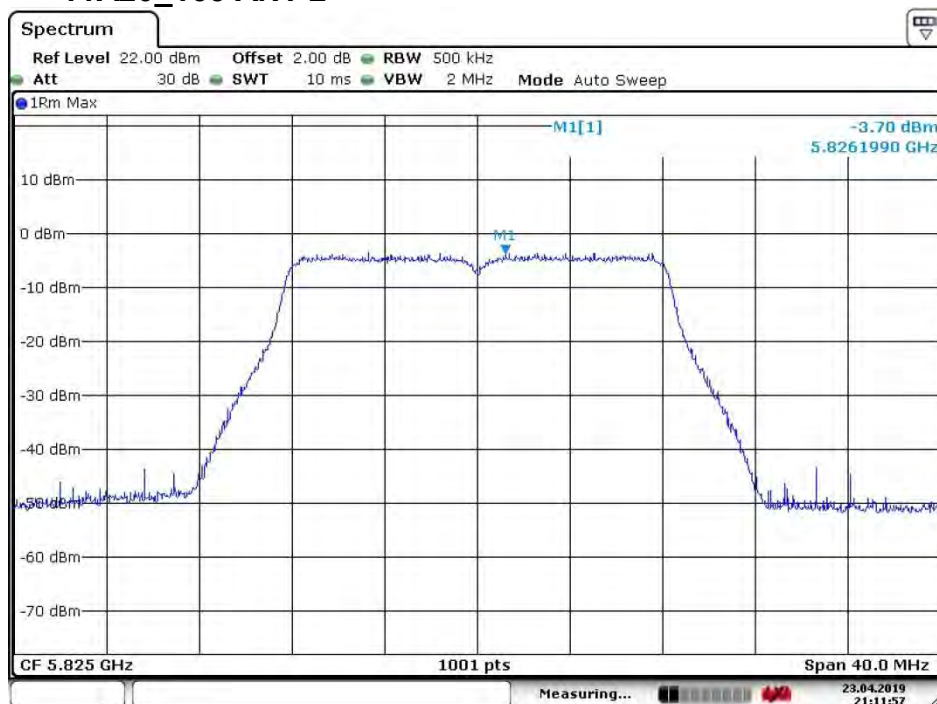
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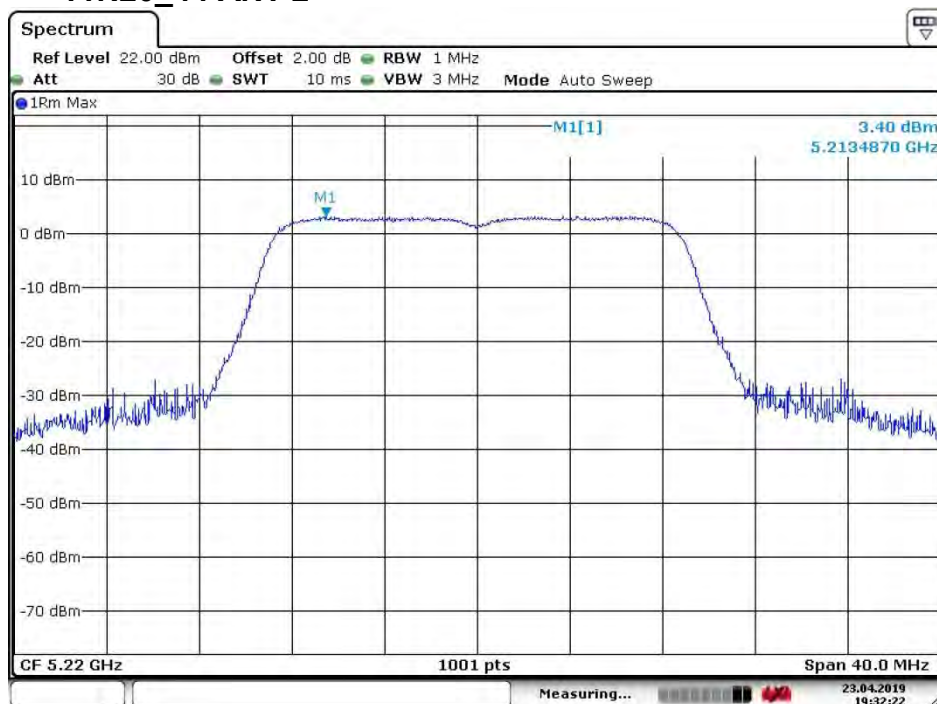
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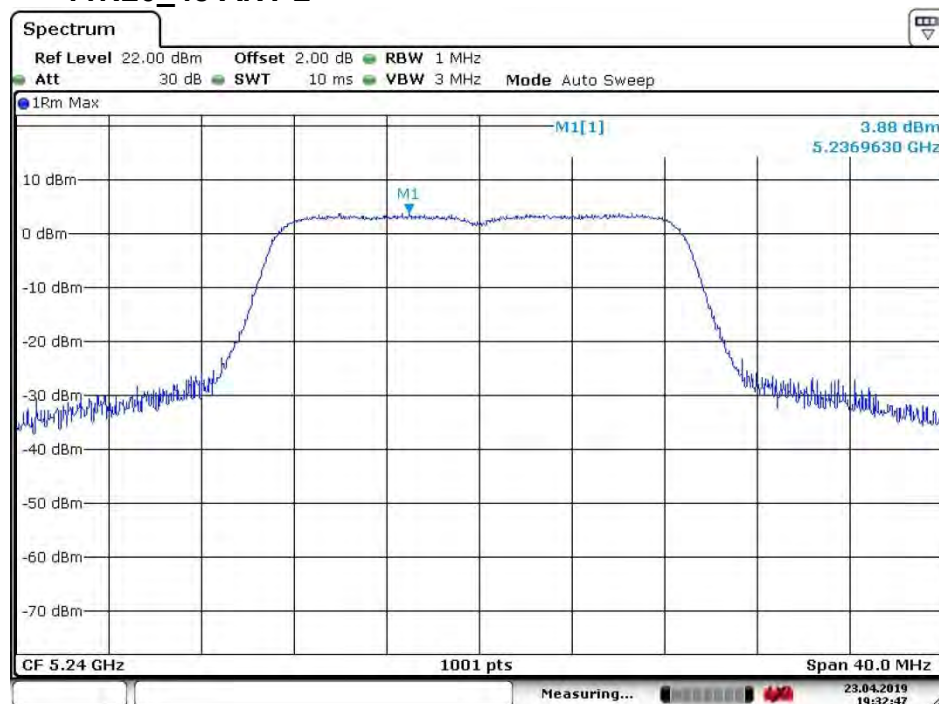


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4.7.1.76

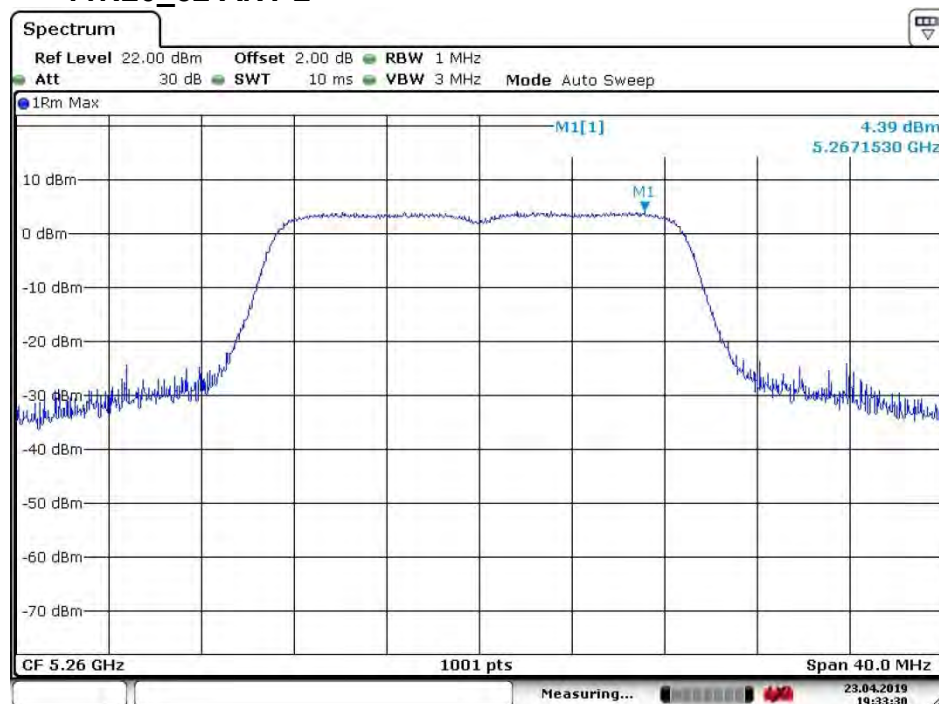
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11N20_52 ANT 2



Date: 23.APR.2019 19:33:31



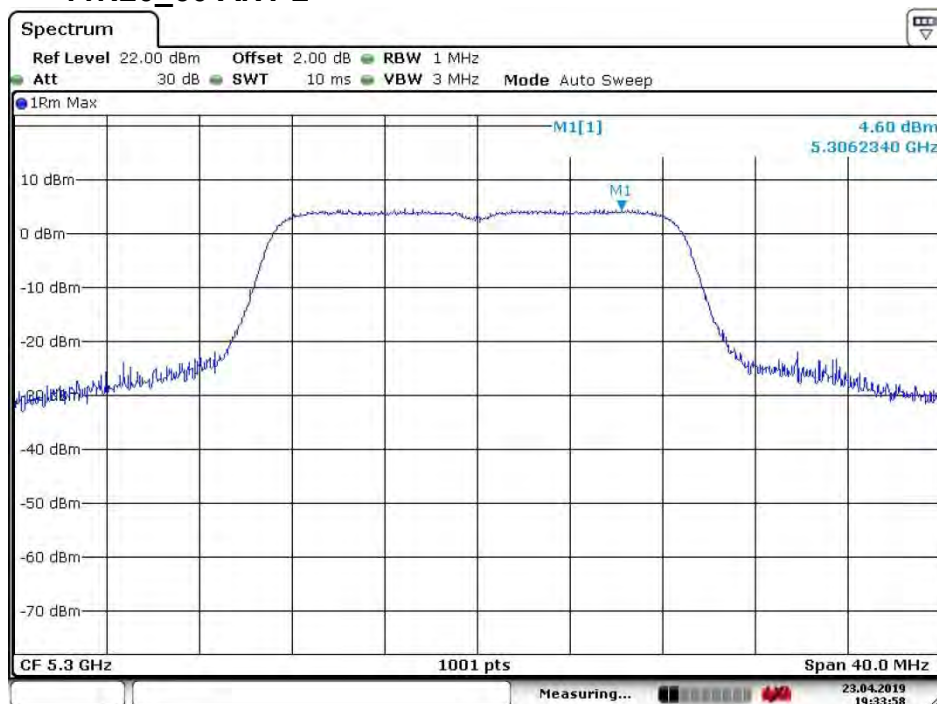
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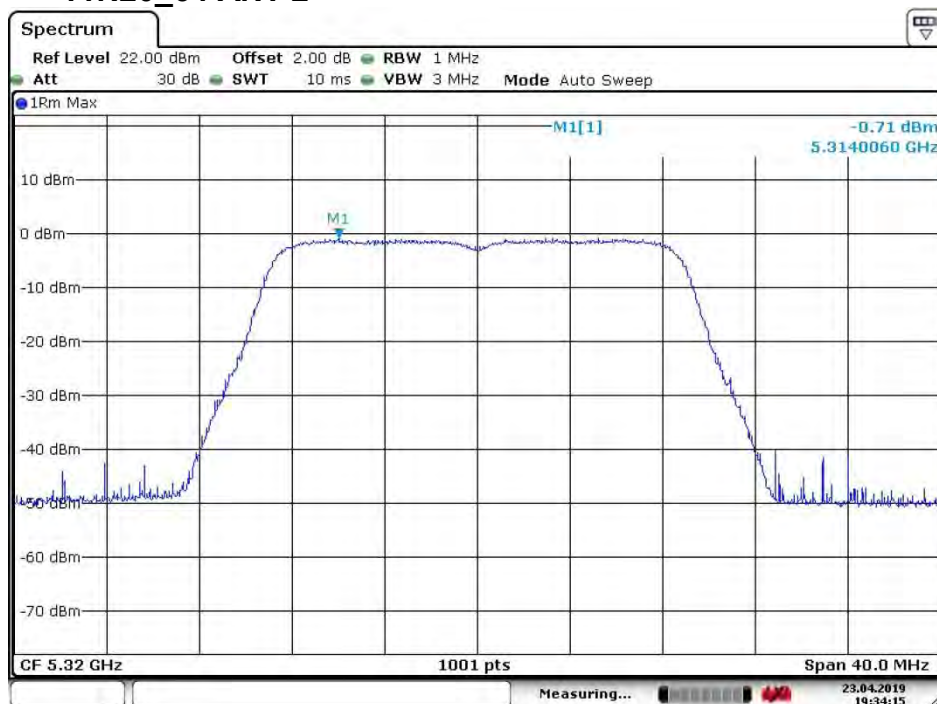
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Date: 23.APR.2019 19:33:59

4.7.1.79

11N20_64 ANT 2



Date: 23.APR.2019 19:34:15

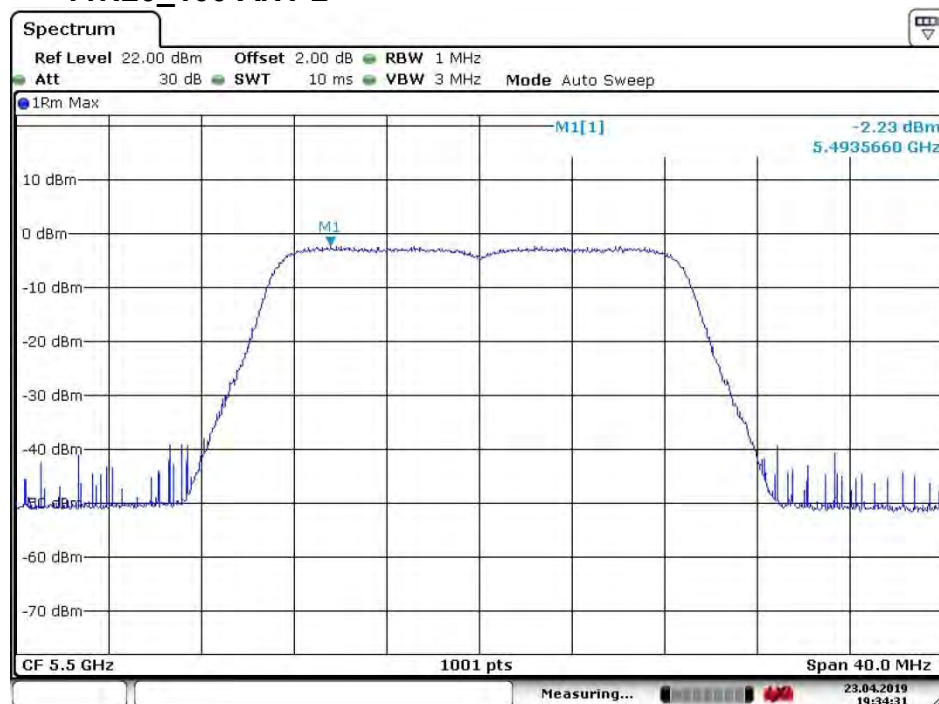


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4.7.1.80

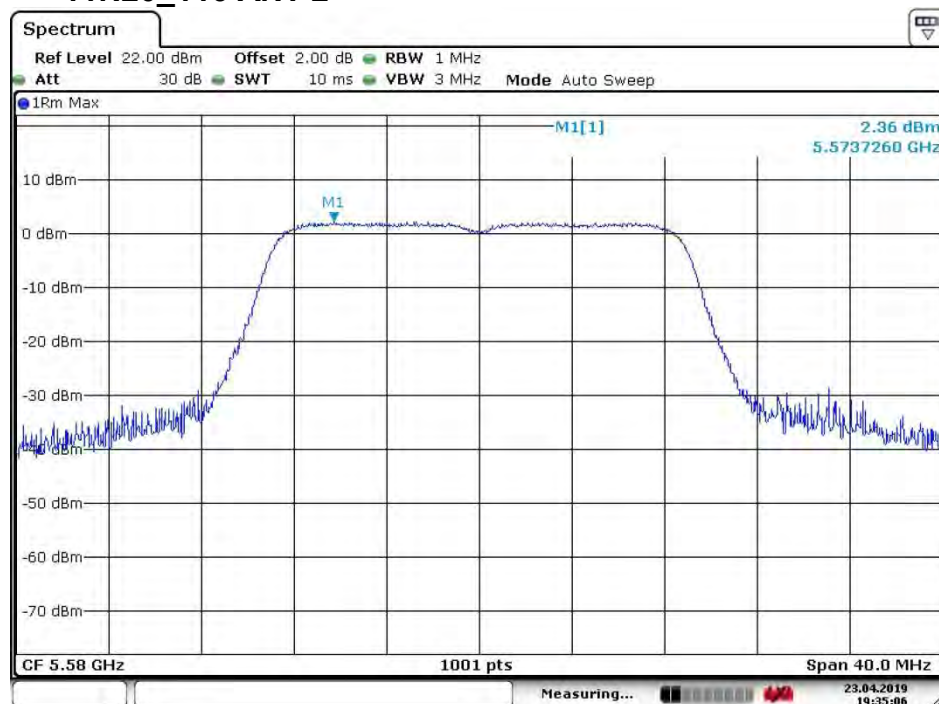
11N20_100 ANT 2



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4.7.1.81

11N20_116 ANT 2



Date: 23.APR.2019 19:35:06



4.7.1.82

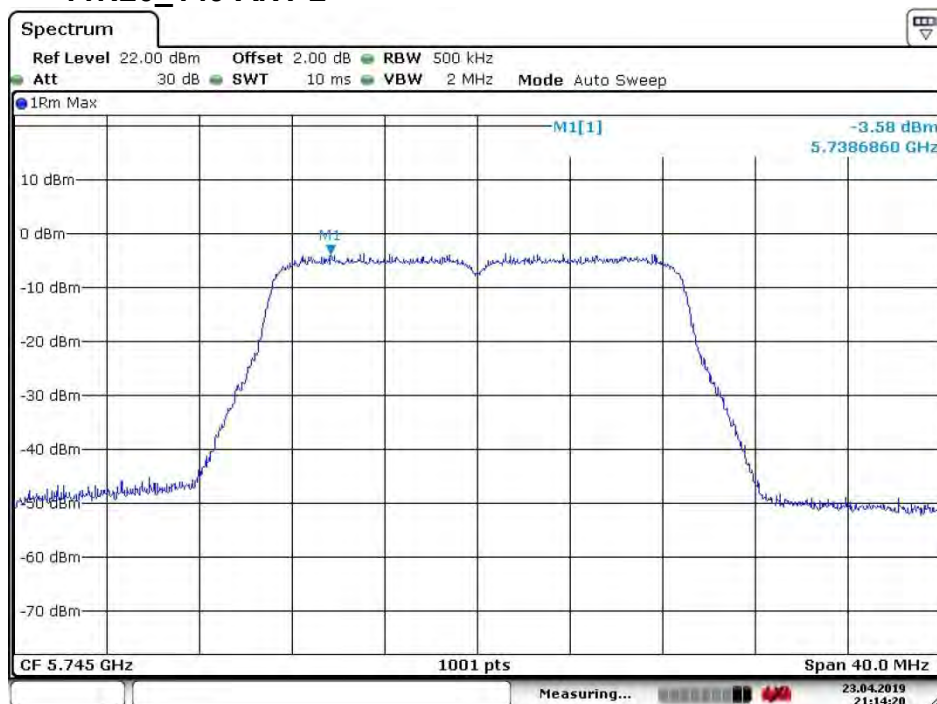
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4.7.1.83

11N20_149 ANT 2



Date: 23.APR.2019 21:14:20

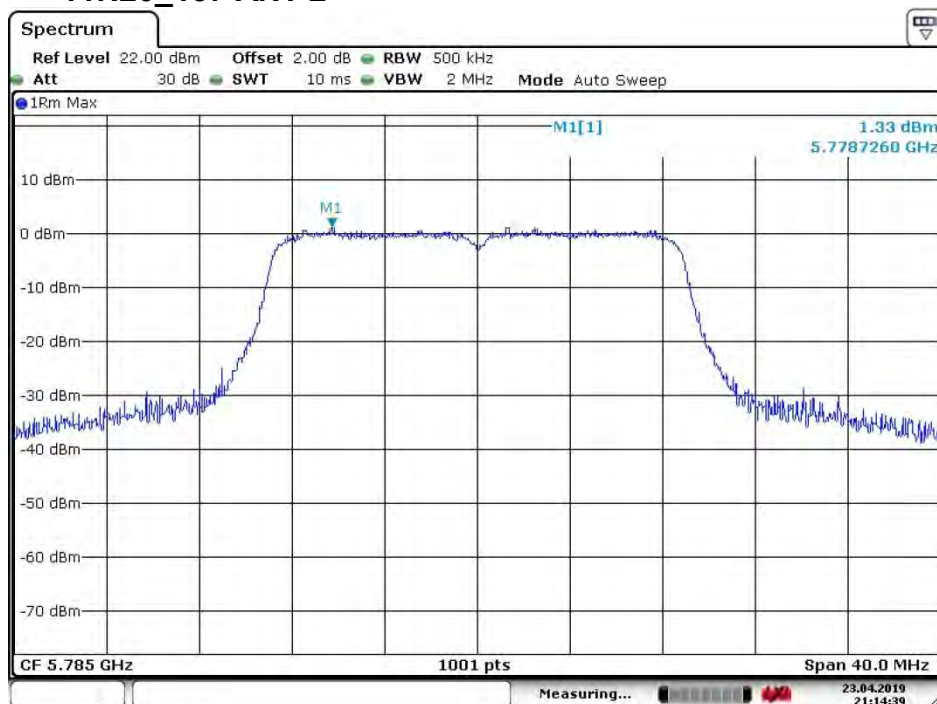


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4.7.1.84

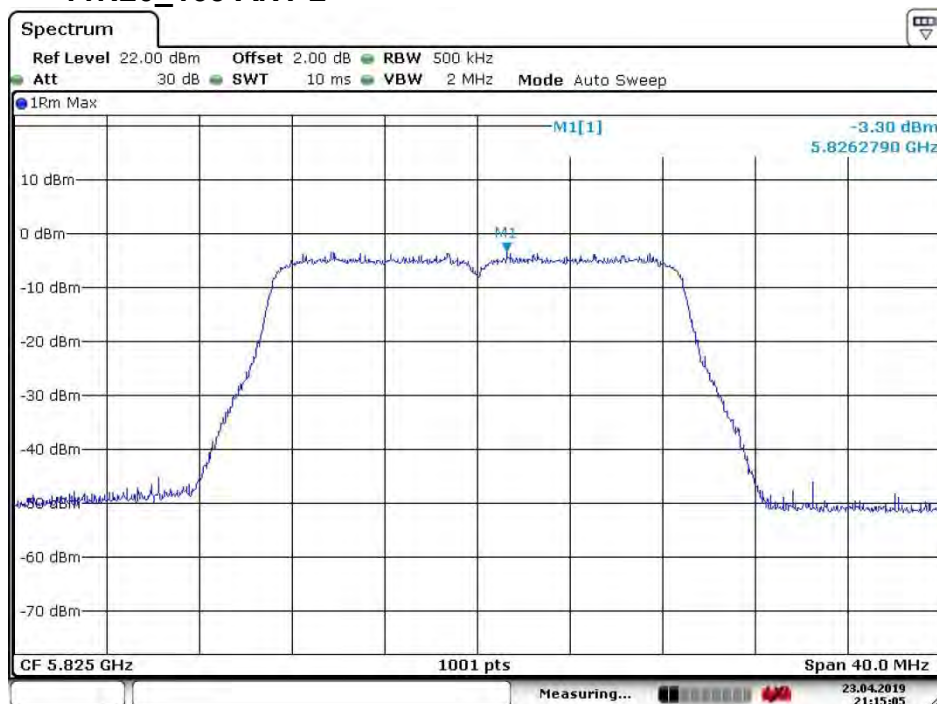
11N20_157 ANT 2



Date: 23.APR.2019 21:14:39

4.7.1.85

11N20_165 ANT 2



Date: 23.APR.2019 21:15:05



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4.7.1.86

11N40_38 ANT 2



Date: 23.APR.2019 20:51:43

4.7.1.87

11N40_46 ANT 2

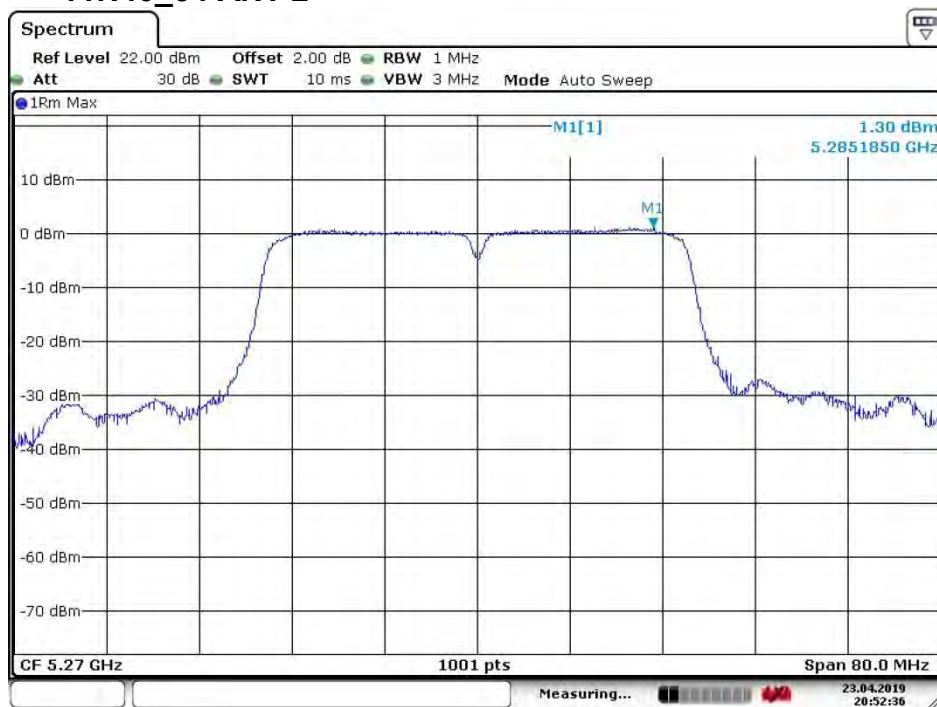


Date: 23.APR.2019 20:52:06



4.7.1.88

11N40_54 ANT 2



Date: 23.APR.2019 20:52:36

4.7.1.89

11N40_62 ANT 2



Date: 23.APR.2019 20:52:50



4.7.1.90

11N40_102 ANT 2



Date: 23.APR.2019 20:53:06

4.7.1.91

11N40_110 ANT 2



Date: 23.APR.2019 20:53:20



4.7.1.92

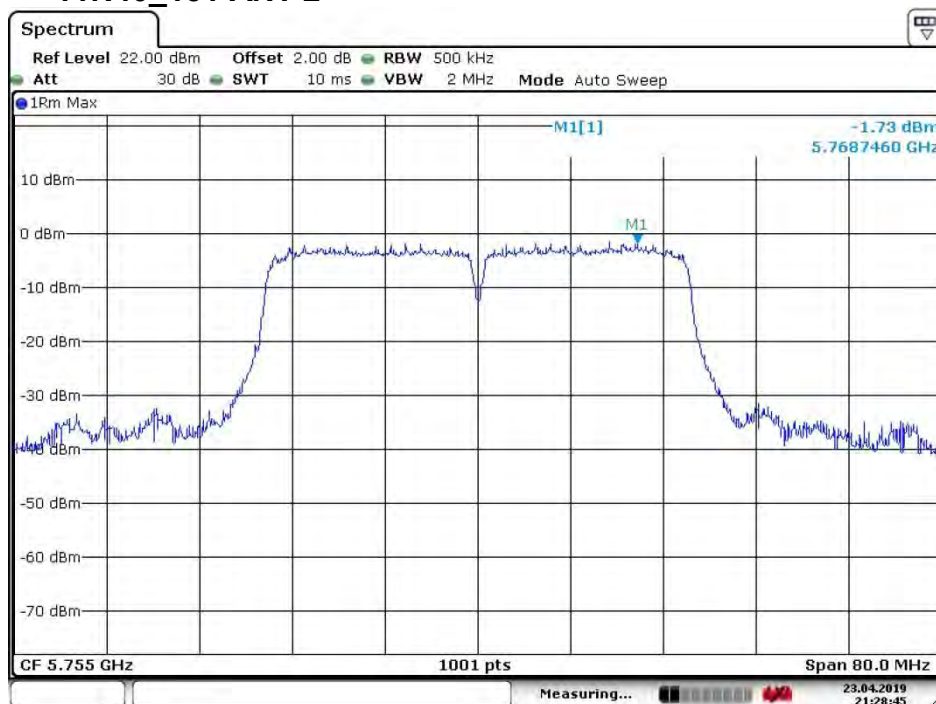
11N40_134 ANT 2



Date: 23. APR. 2019 20:53:56

4.7.1.93

11N40_151 ANT 2



Date: 23. APR. 2019 21:28:45



4.7.1.94

11N40_159 ANT 2



Date: 23. APR. 2019 21:28:29

4.7.1.95

11AC20_36 ANT 2

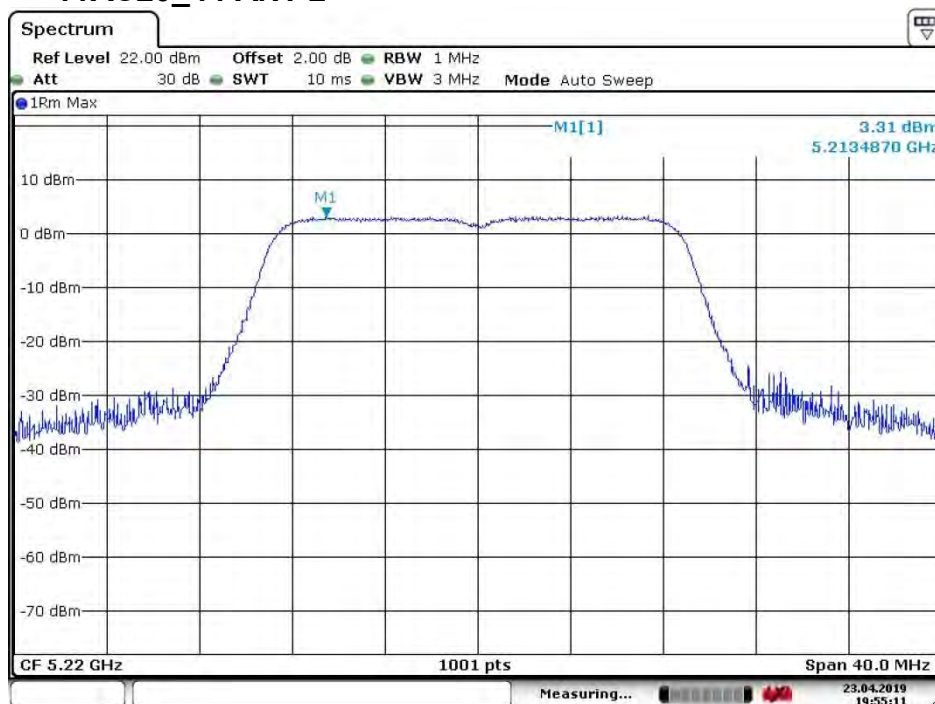


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4.7.1.96

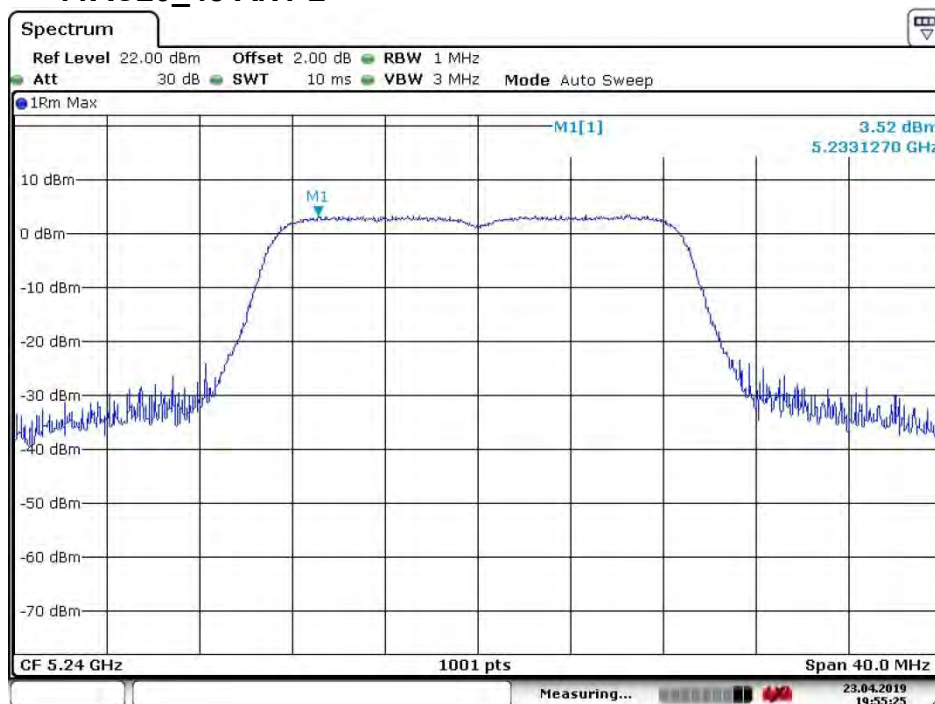
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11AC20_48 ANT 2

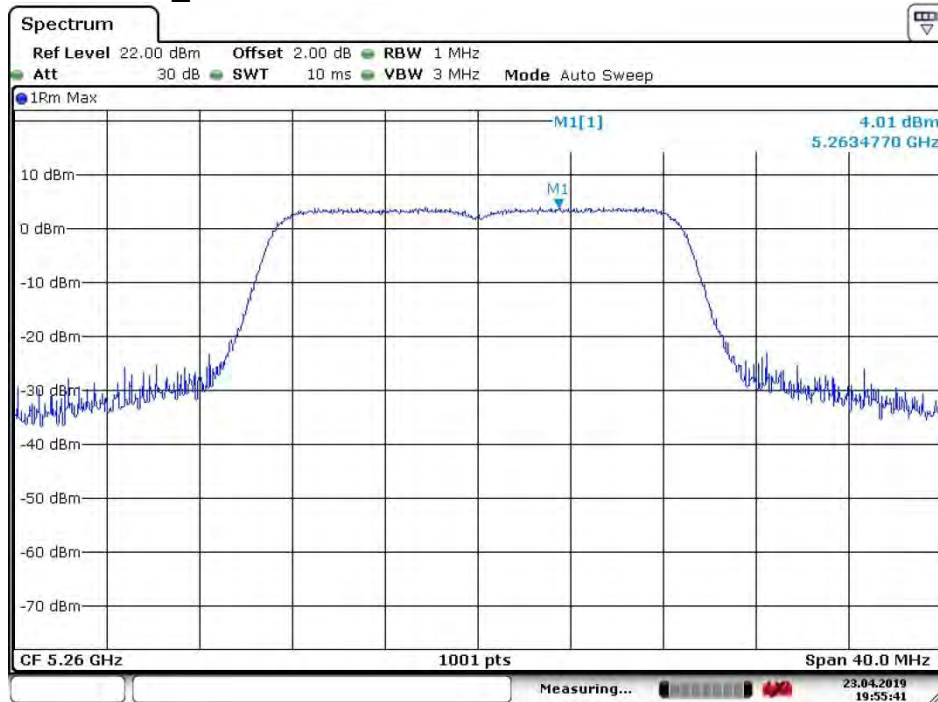


Date: 23 APR 2019 19:55:25



4.7.1.98

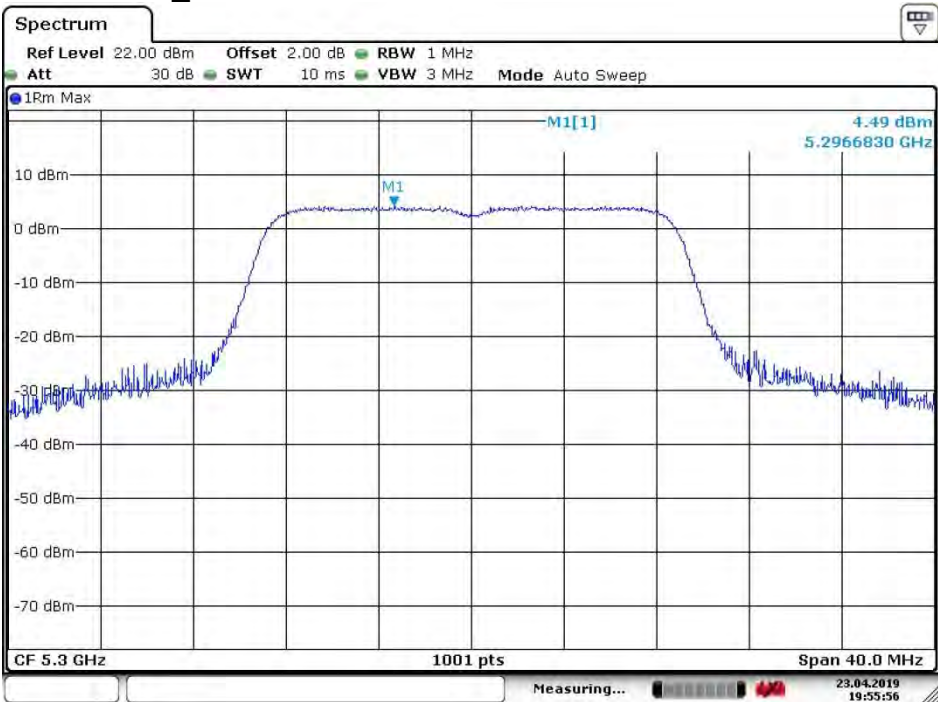
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Date: 23.APR.2019 19:55:41

4.7.1.99

11AC20_60 ANT 2



Date: 23.APR.2019 19:55:56



4.7.1.100 11AC20_64 ANT 2



Date: 23.APR.2019 19:56:08

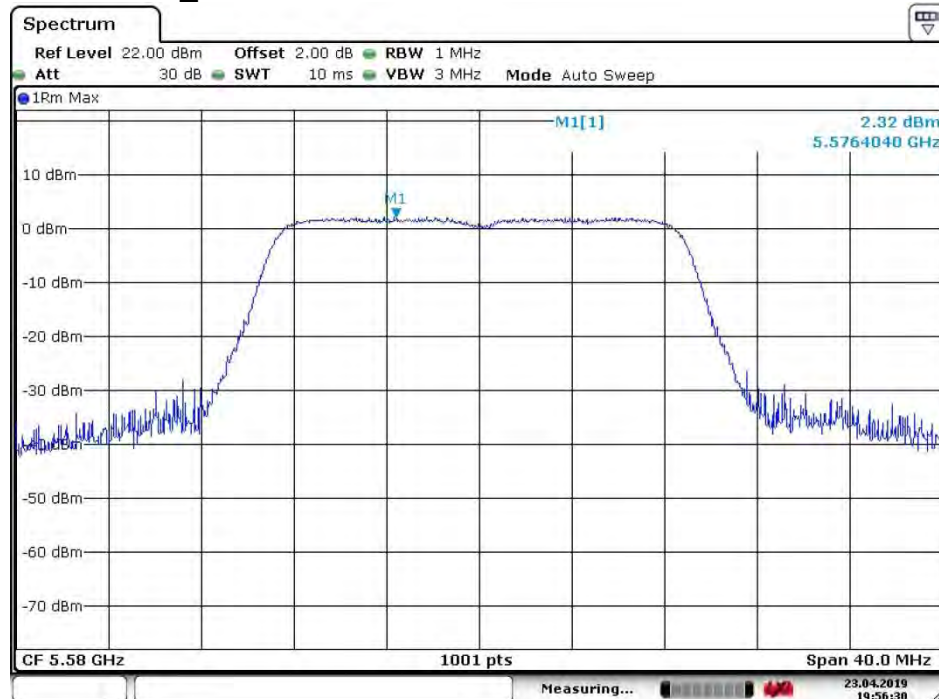
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Date: 23.APR.2019 19:56:18



4.7.1.102 11AC20_116 ANT 2



Date: 23.APR.2019 19:56:30

4.7.1.103 11AC20_140 ANT 2



Date: 23.APR.2019 19:56:42



4.7.1.104

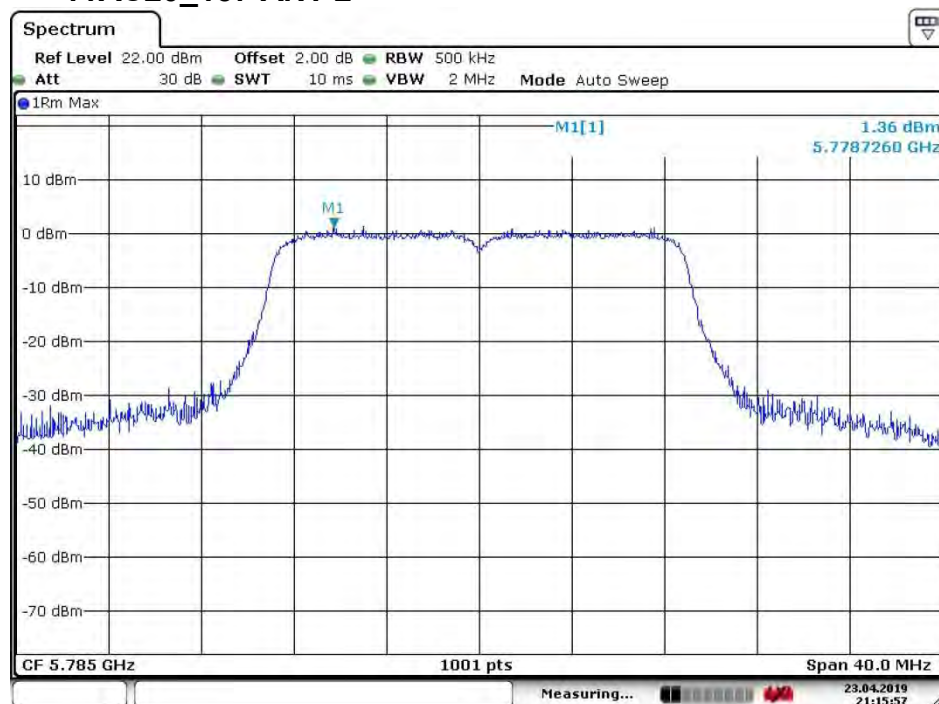
11AC20_149 ANT 2



Date: 23.APR.2019 21:15:30

4.7.1.105

11AC20_157 ANT 2



Date: 23.APR.2019 21:15:58



4.7.1.106

11AC20_165 ANT 2



Date: 23.APR.2019 21:22:23

4.7.1.107

11AC40_38 ANT 2



Date: 23.APR.2019 21:01:19



4.7.1.108

11AC40_46 ANT 2



Date: 23.APR.2019 21:01:39

4.7.1.109

11AC40_54 ANT 2



Date: 23.APR.2019 21:01:53



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4.7.1.110 11AC40_62 ANT 2



Date: 23 APR 2019 21:02:04

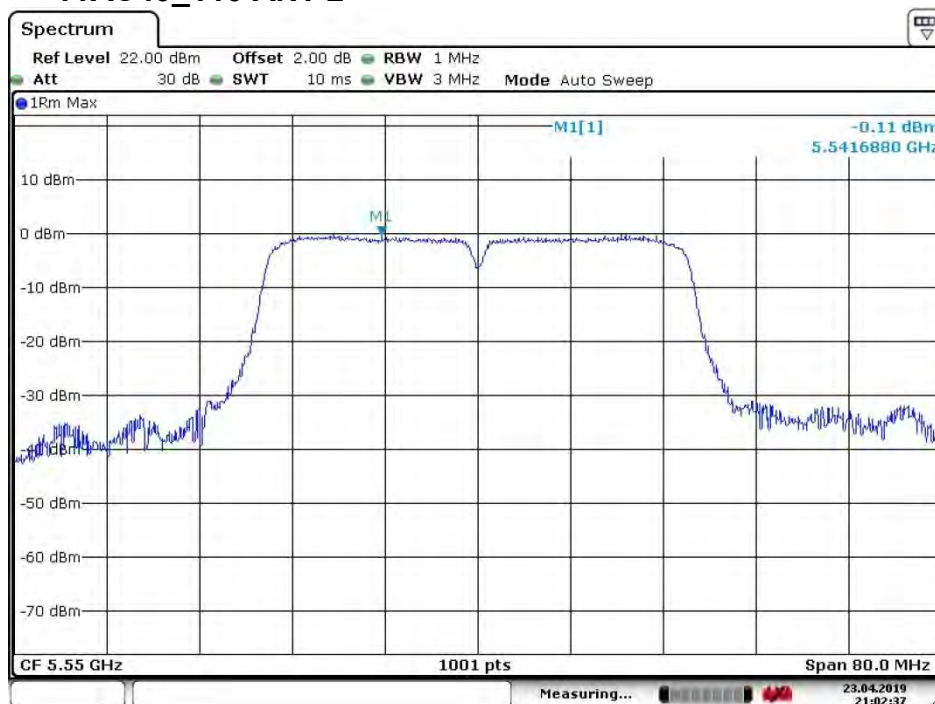
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Date: 23 APR 2019 21:02:25



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Date: 23.APR.2019 21:02:38

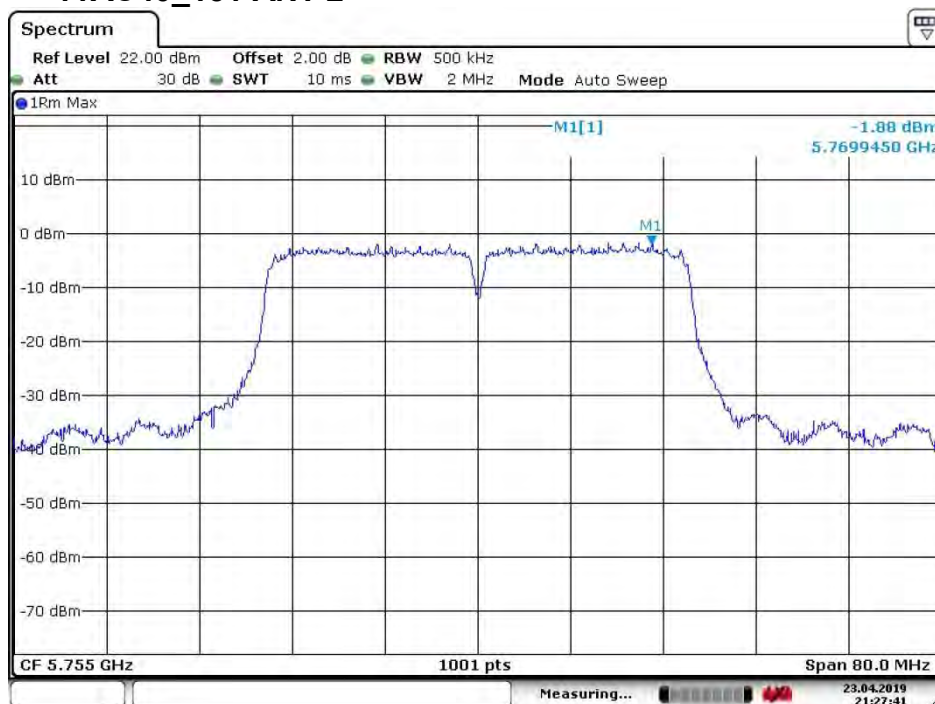
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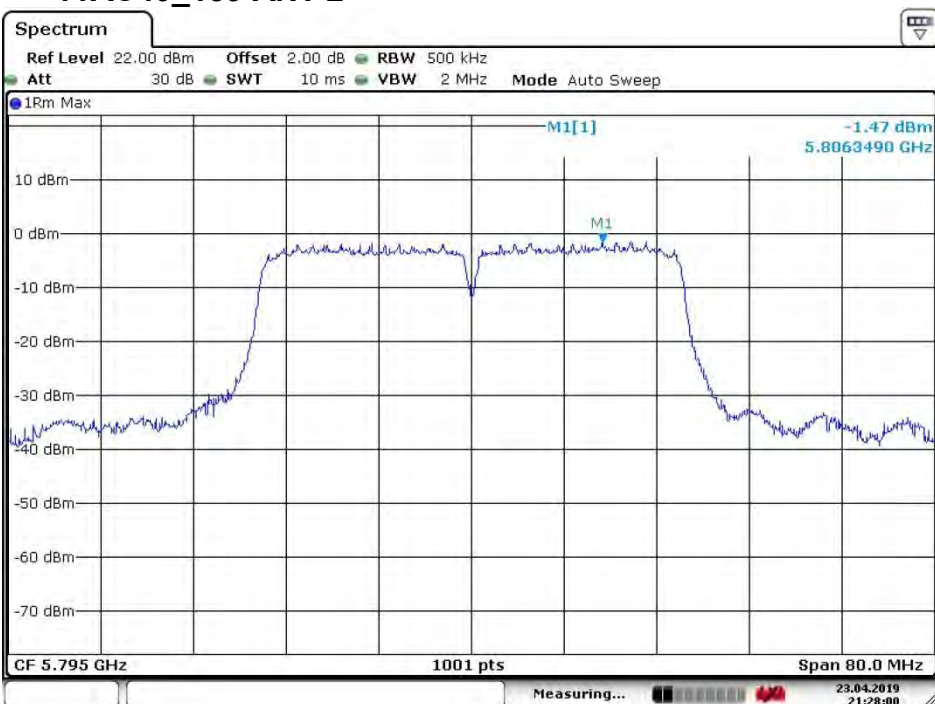


4.7.1.114 11AC40_151 ANT 2



Date: 23.APR.2019 21:27:41

4.7.1.115 11AC40_159 ANT 2



Date: 23.APR.2019 21:28:01



4.7.1.116 11AC80_42 ANT 2



Date: 23 APR 2019 21:06:15

4.7.1.117 11AC80_58 ANT 2



Date: 23 APR 2019 21:06:36



4.7.1.118 11AC80_106 ANT 2



Date: 23 APR 2019 21:06:48

4.7.1.119 11AC80_122 ANT 2



Date: 23 APR 2019 21:07:02



4.7.1.120

11AC80_155 ANT 2



Date: 23.APR.2019 21:30:45

4.7.1.121

11AC160_50 ANT 2



Date: 23.APR.2019 21:10:25



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