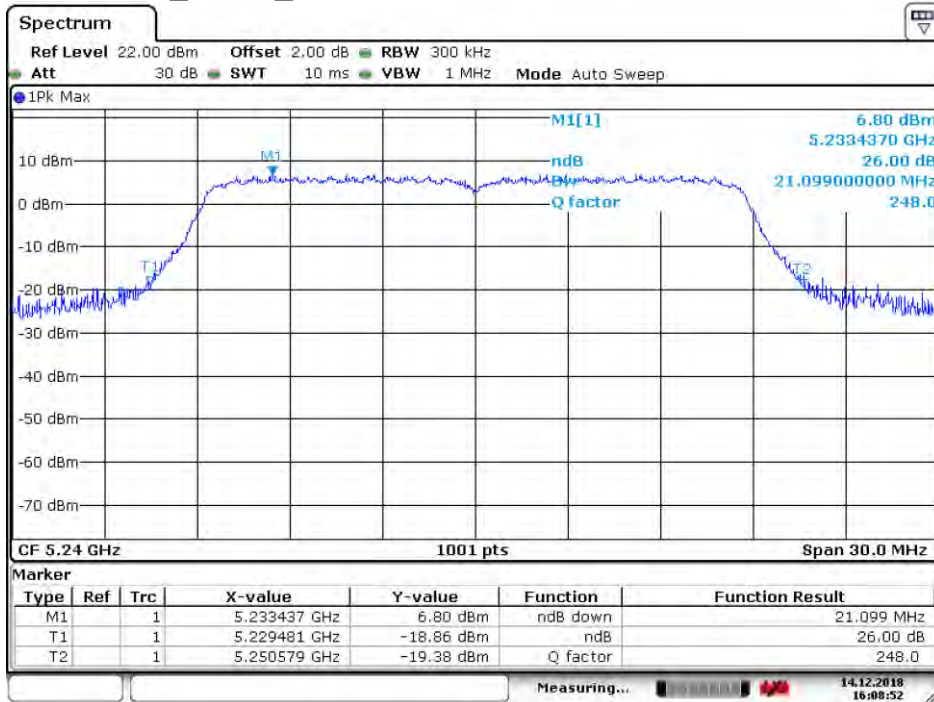
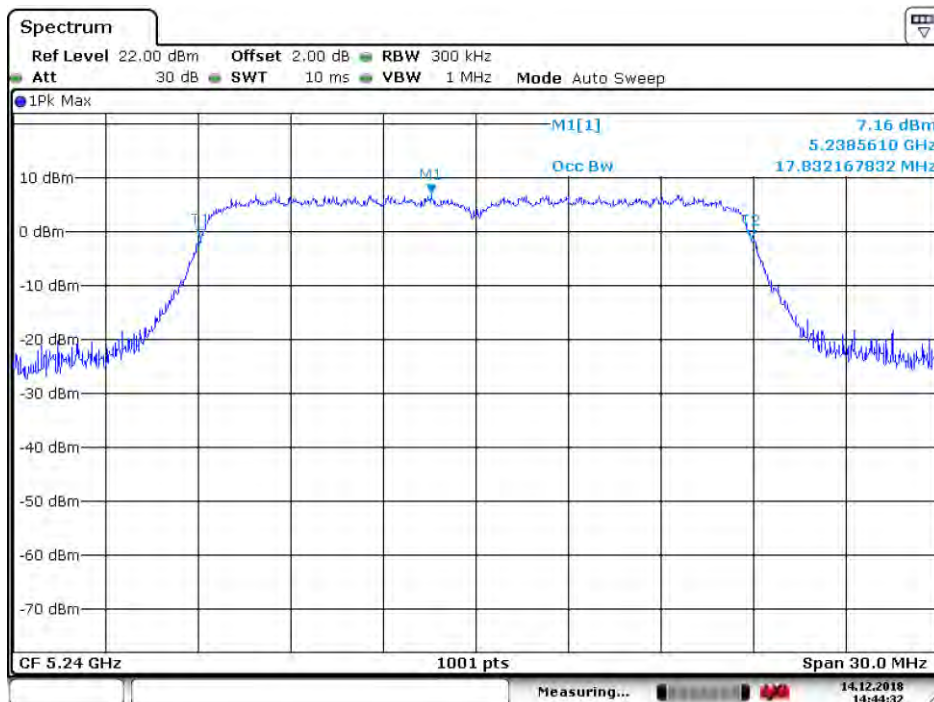


4.5.2.122 11AC20\_MIMO\_48 ANT 1

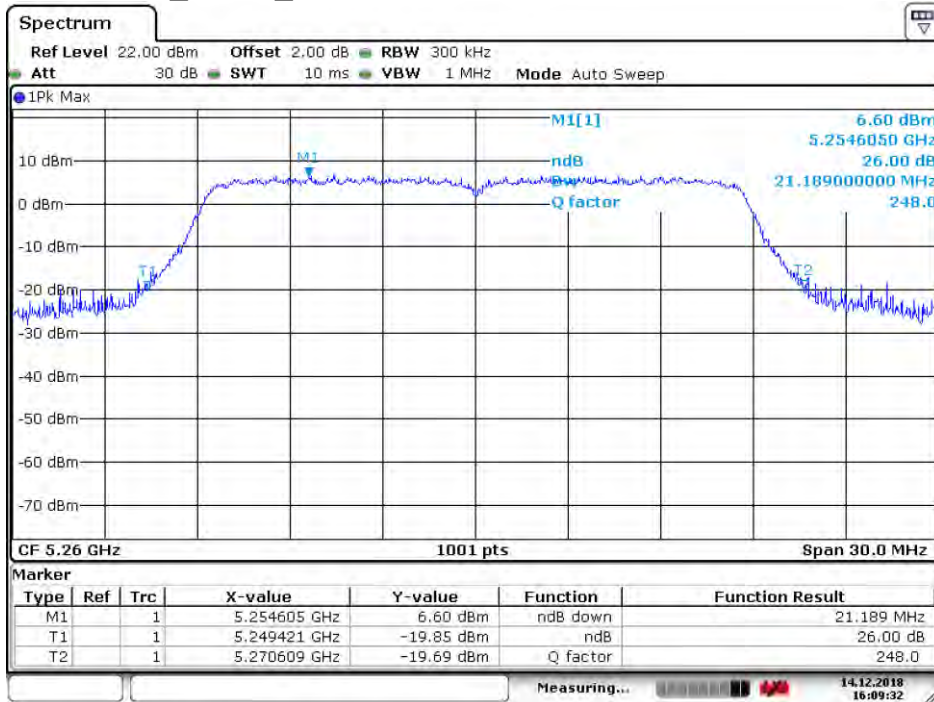


Date: 14.DEC.2018 16:08:52



Date: 14.DEC.2018 14:44:32

4.5.2.123 11AC20\_MIMO\_52 ANT 1

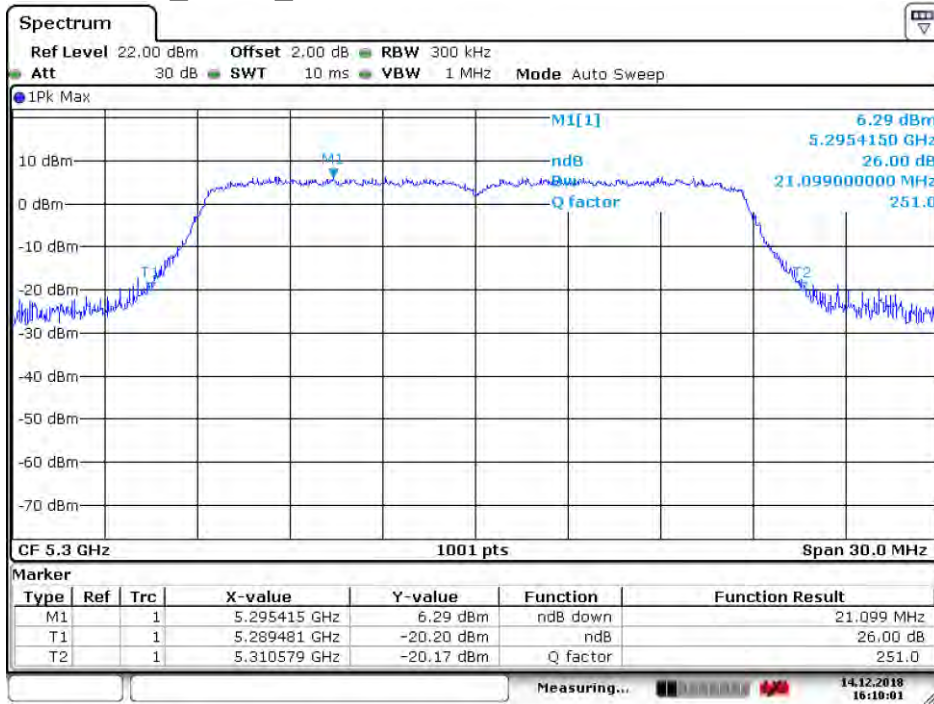


Date: 14.DEC.2018 16:09:32

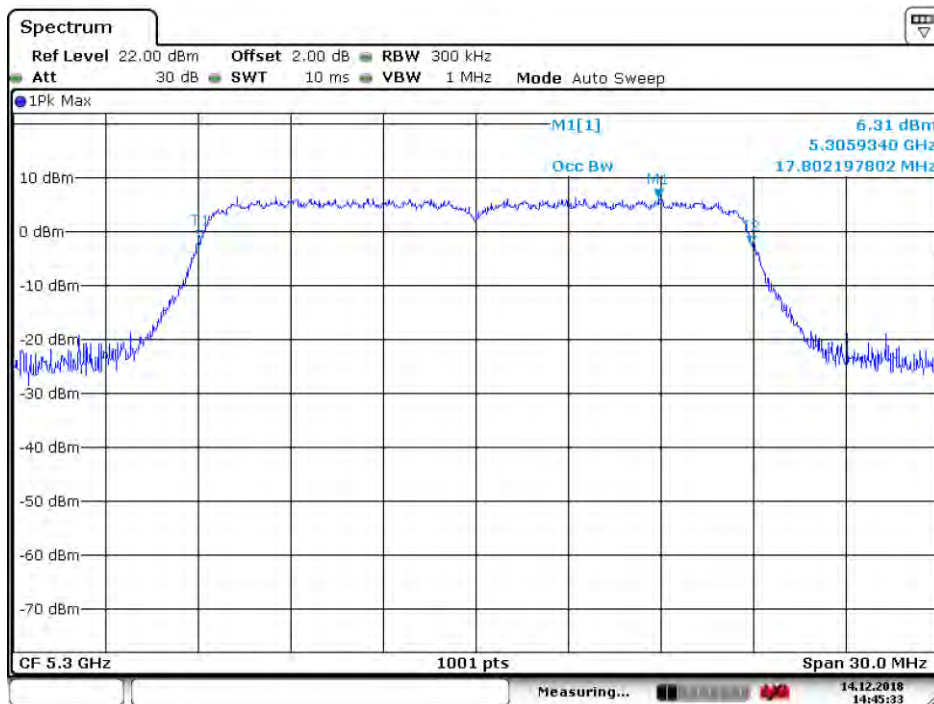


Date: 14.DEC.2018 14:45:02

4.5.2.124 11AC20\_MIMO\_60 ANT 1

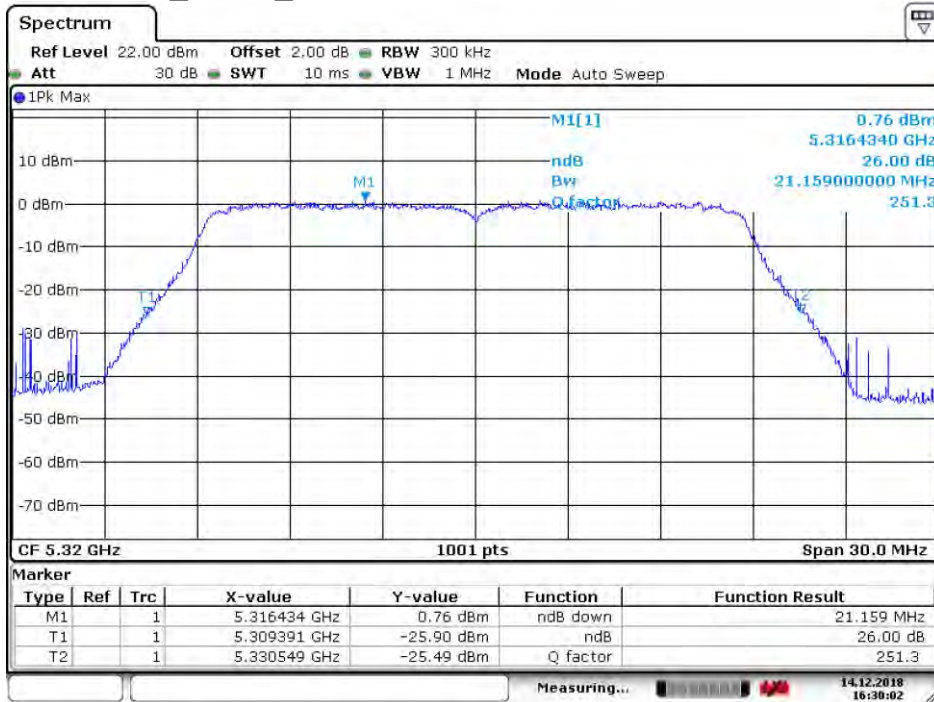


Date: 14.DEC.2018 16:10:01

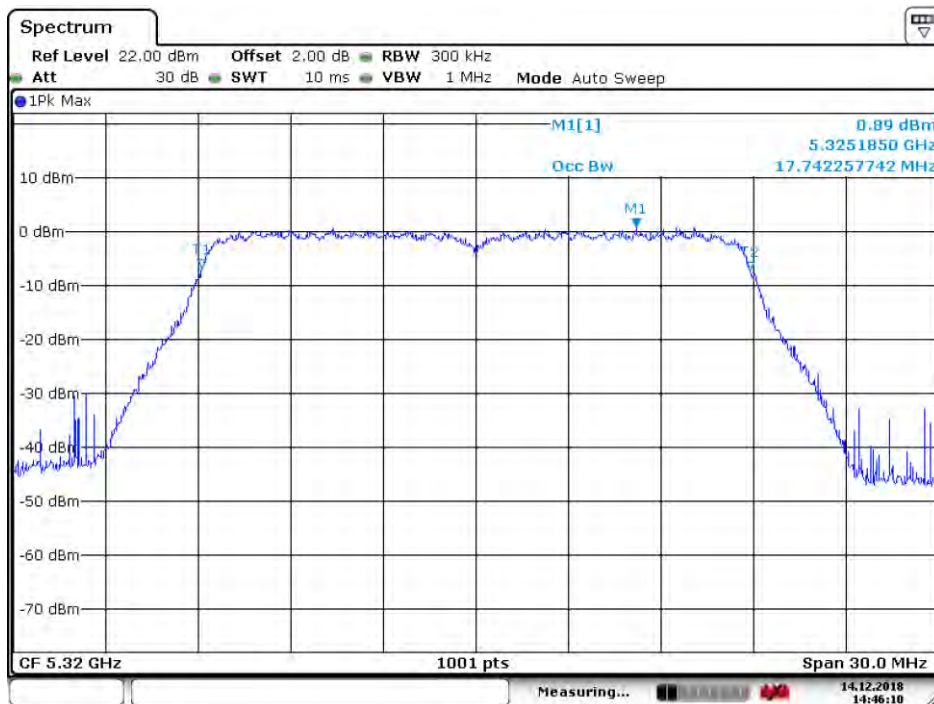


Date: 14.DEC.2018 14:49:33

4.5.2.125 11AC20\_MIMO\_64 ANT 1

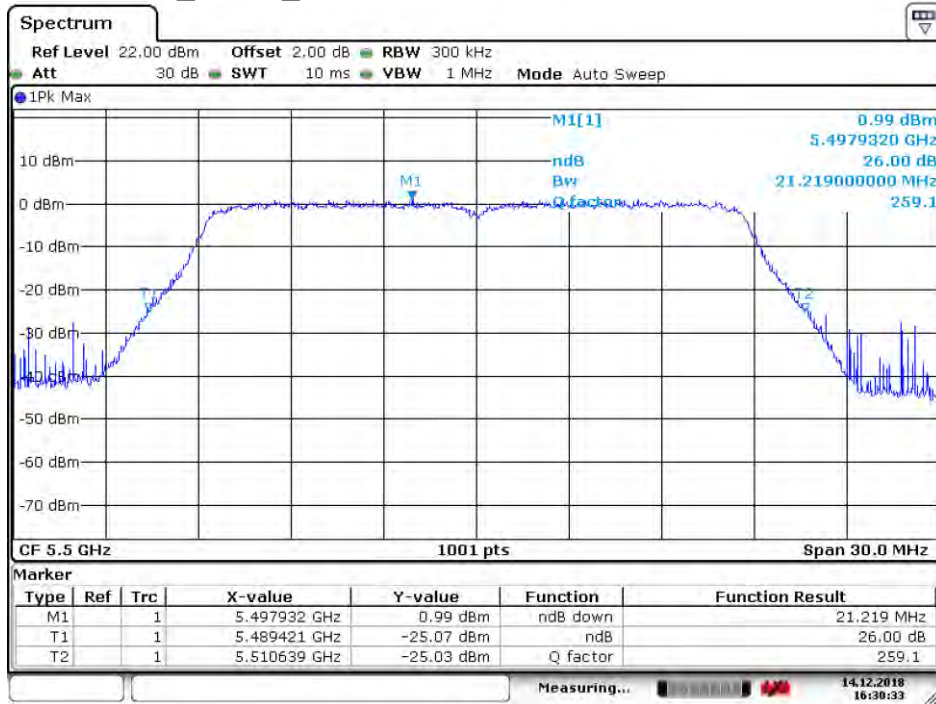


Date: 14.DEC.2018 16:30:02

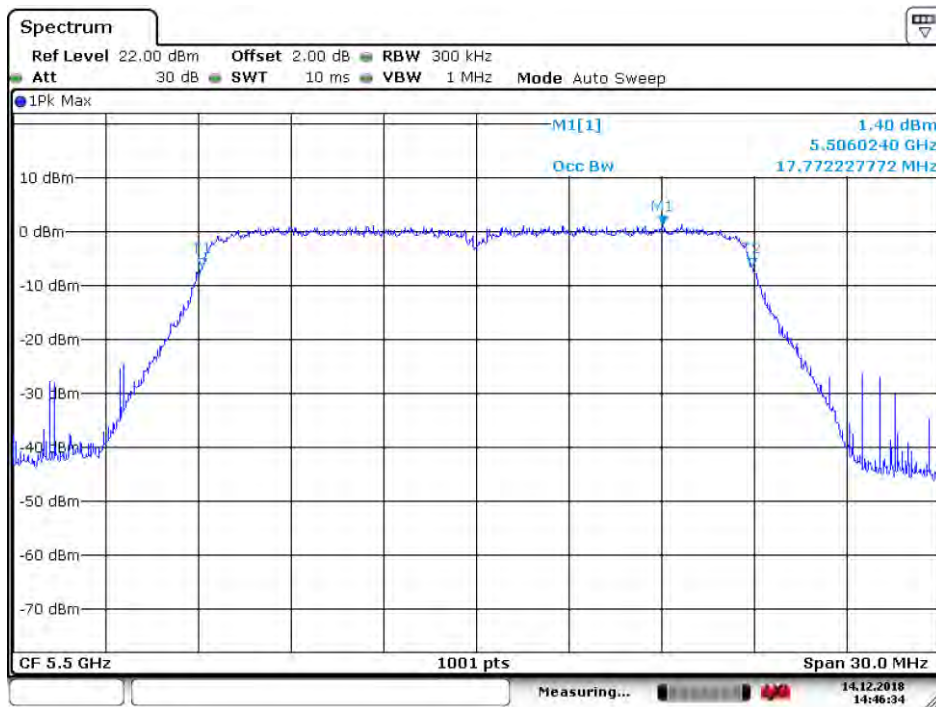


Date: 14.DEC.2018 14:46:10

4.5.2.126 11AC20\_MIMO\_100 ANT 1

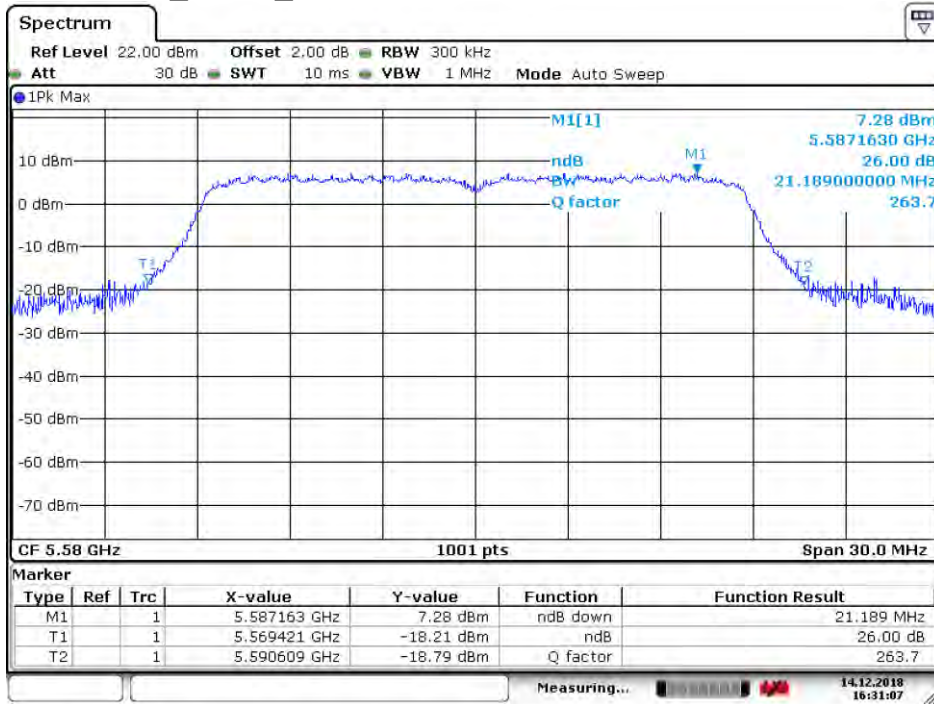


Date: 14 DEC.2018 16:30:33

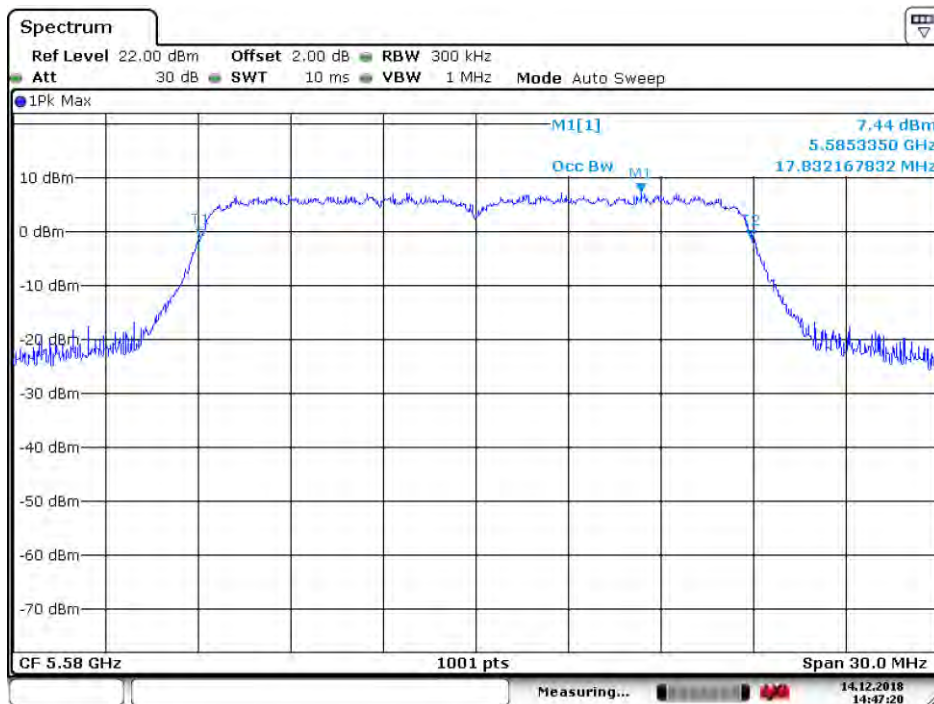


Date: 14 DEC.2018 14:46:34

4.5.2.127 11AC20\_MIMO\_116 ANT 1

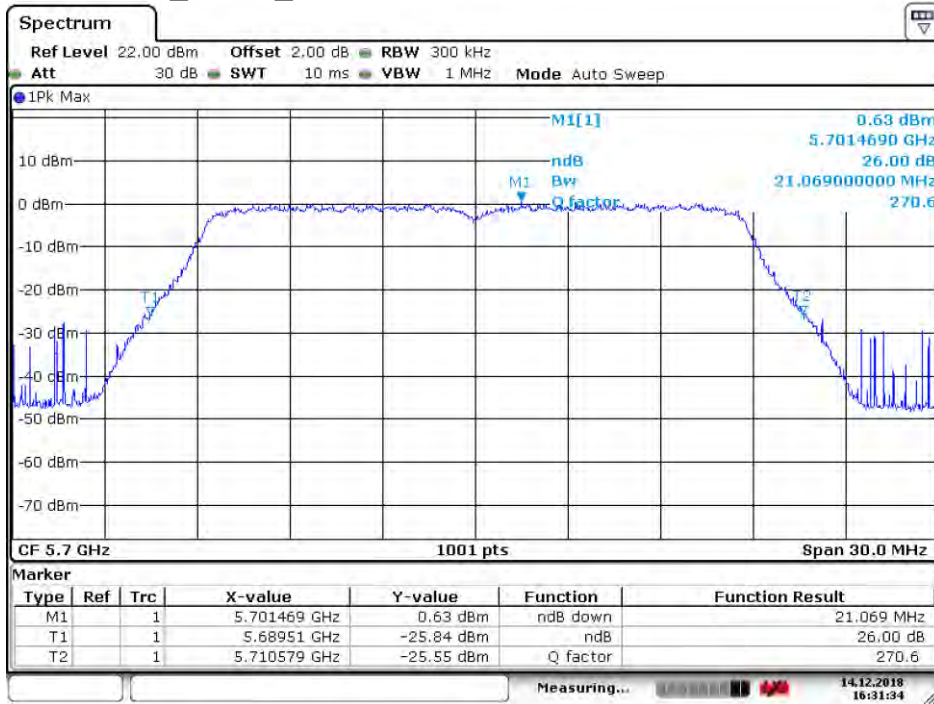


Date: 14.DEC.2018 16:31:07



Date: 14.DEC.2018 14:47:21

4.5.2.128 11AC20\_MIMO\_140 ANT 1

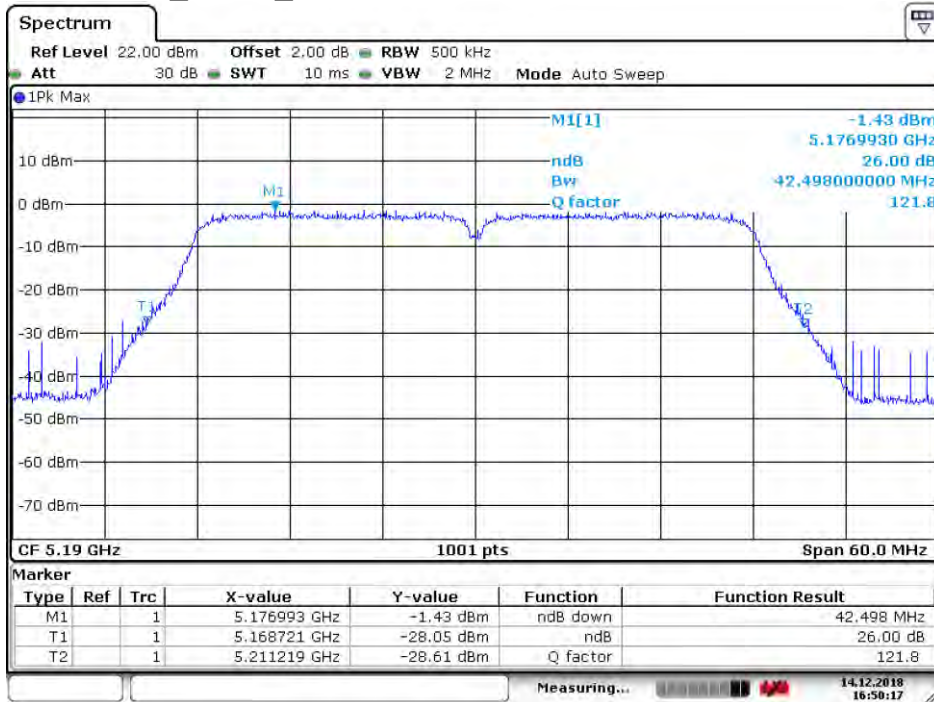


Date: 14.DEC.2018 16:31:35

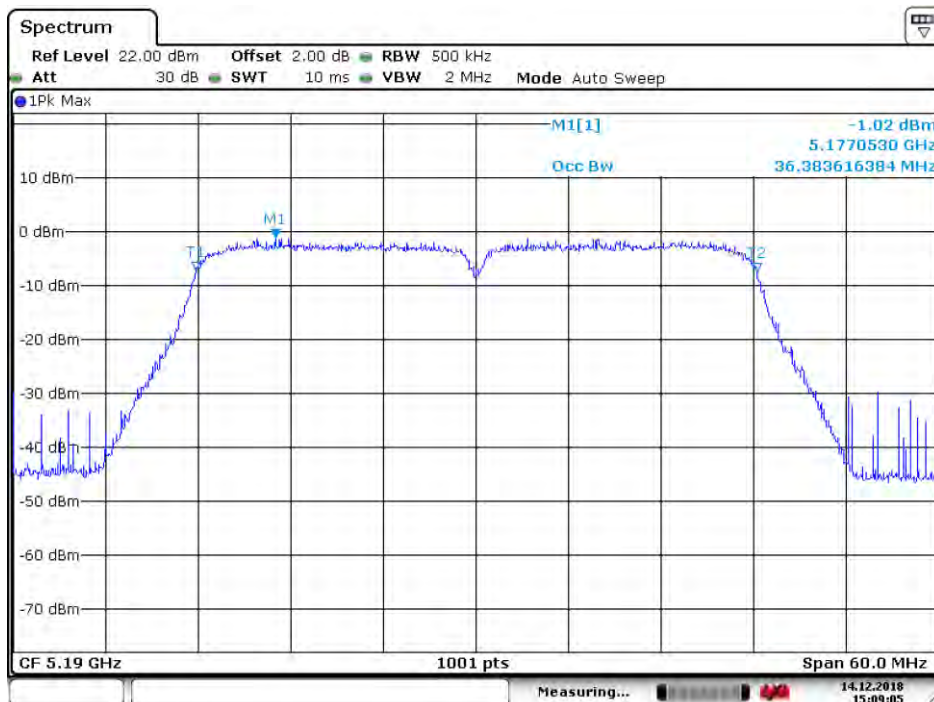


Date: 14.DEC.2018 14:47:54

4.5.2.129 11AC40\_MIMO\_38 ANT 1



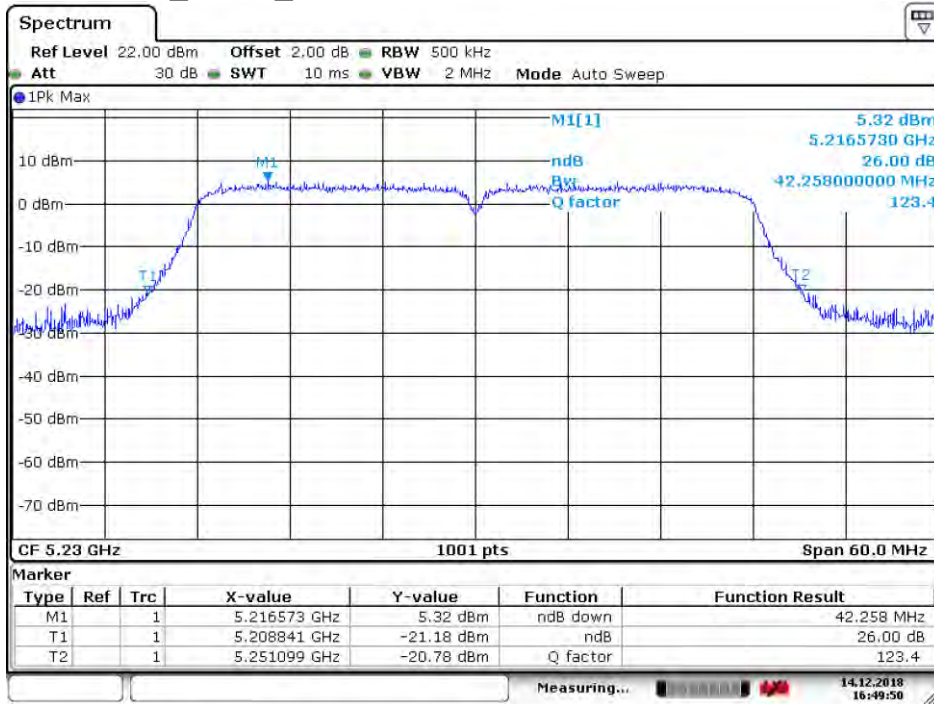
Date: 14.DEC.2018 16:50:18



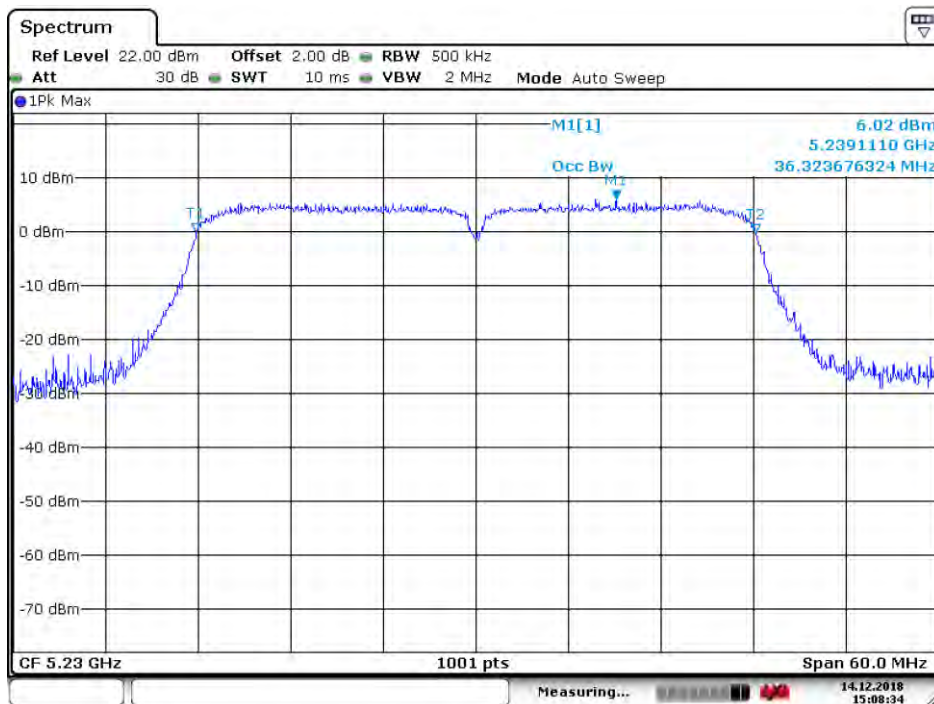
Date: 14.DEC.2018 15:09:05



4.5.2.130 11AC40\_MIMO\_46 ANT 1

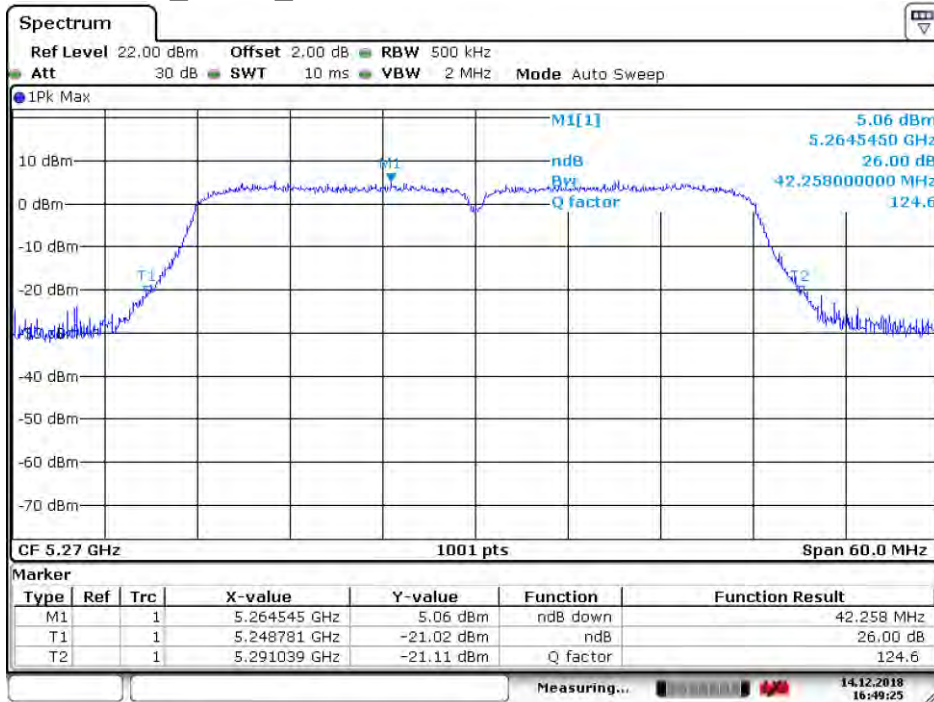


Date: 14.DEC.2018 16:49:51

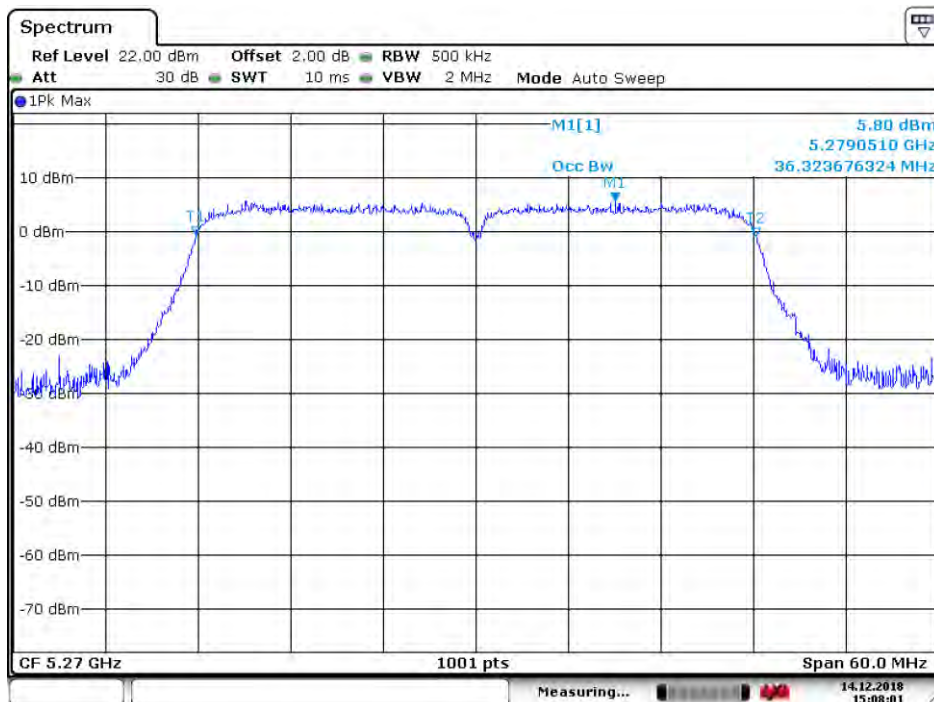


Date: 14.DEC.2018 15:08:34

4.5.2.131 11AC40\_MIMO\_54 ANT 1

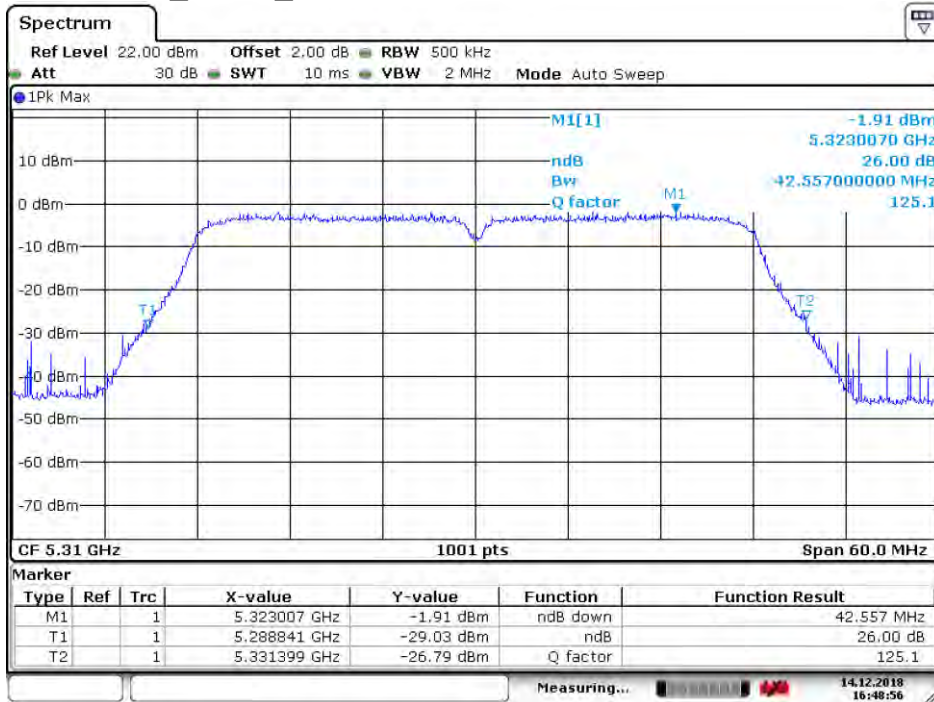


Date: 14.DEC.2018 16:49:25

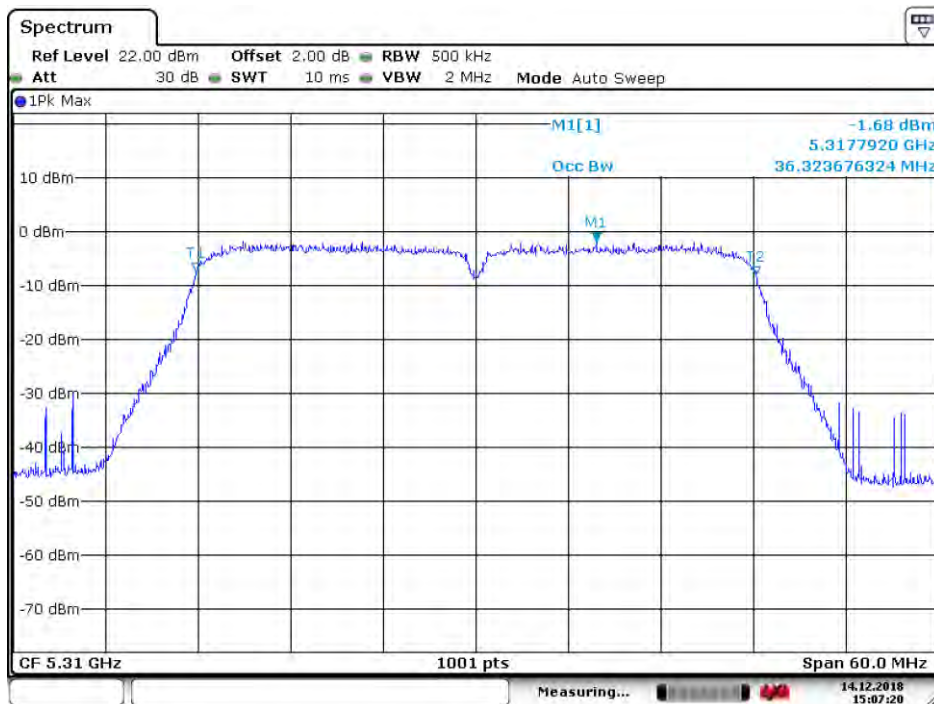


Date: 14.DEC.2018 15:08:02

4.5.2.132 11AC40\_MIMO\_62 ANT 1

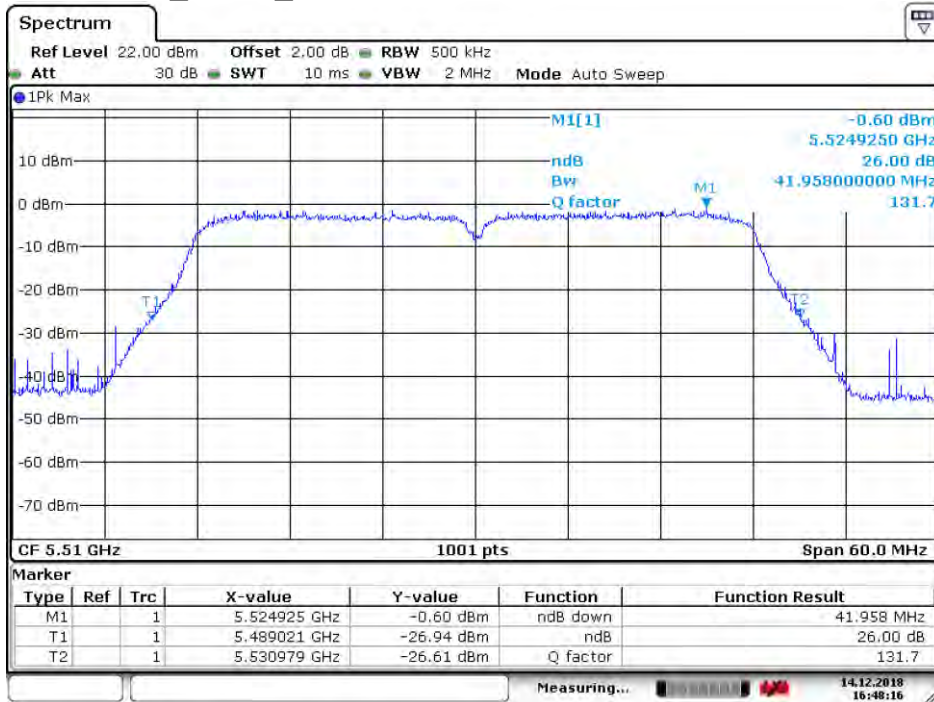


Date: 14.DEC.2018 16:48:56

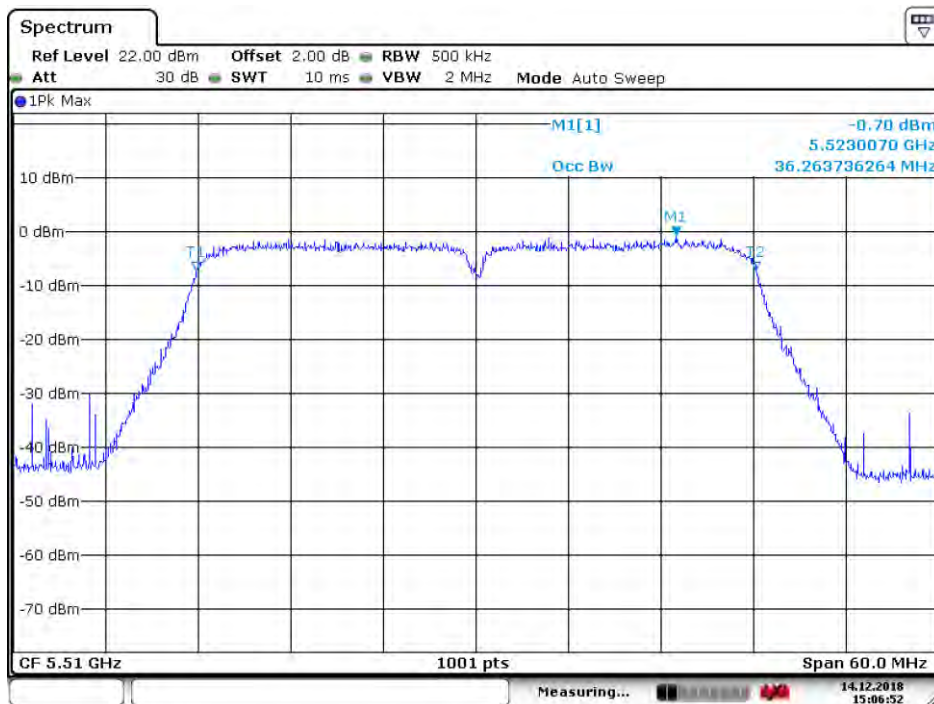


Date: 14.DEC.2018 15:07:20

4.5.2.133 11AC40\_MIMO\_102 ANT 1

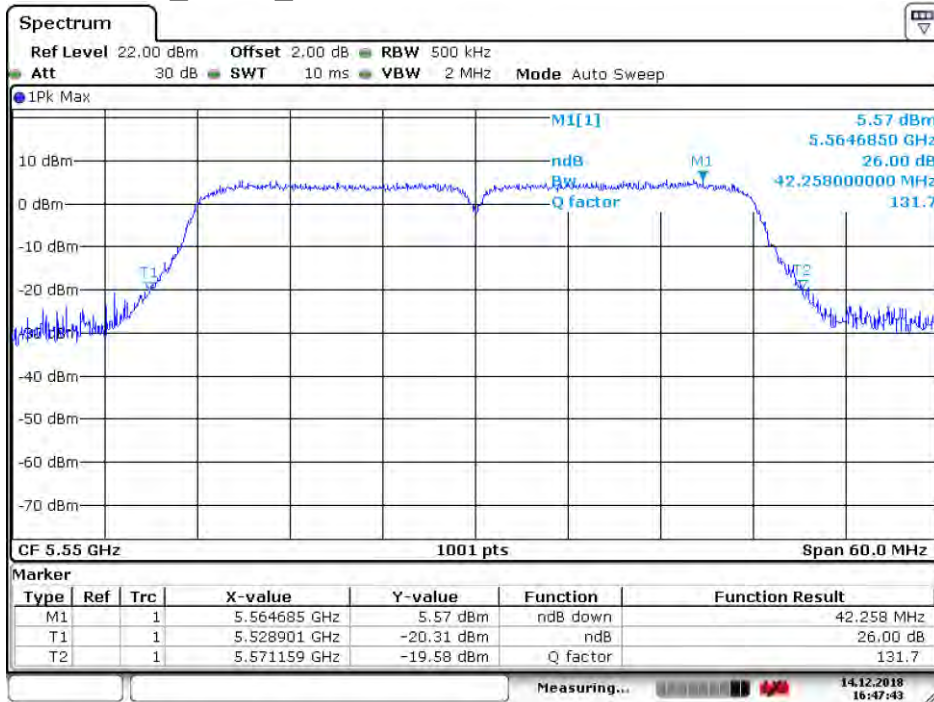


Date: 14.DEC.2018 16:48:16

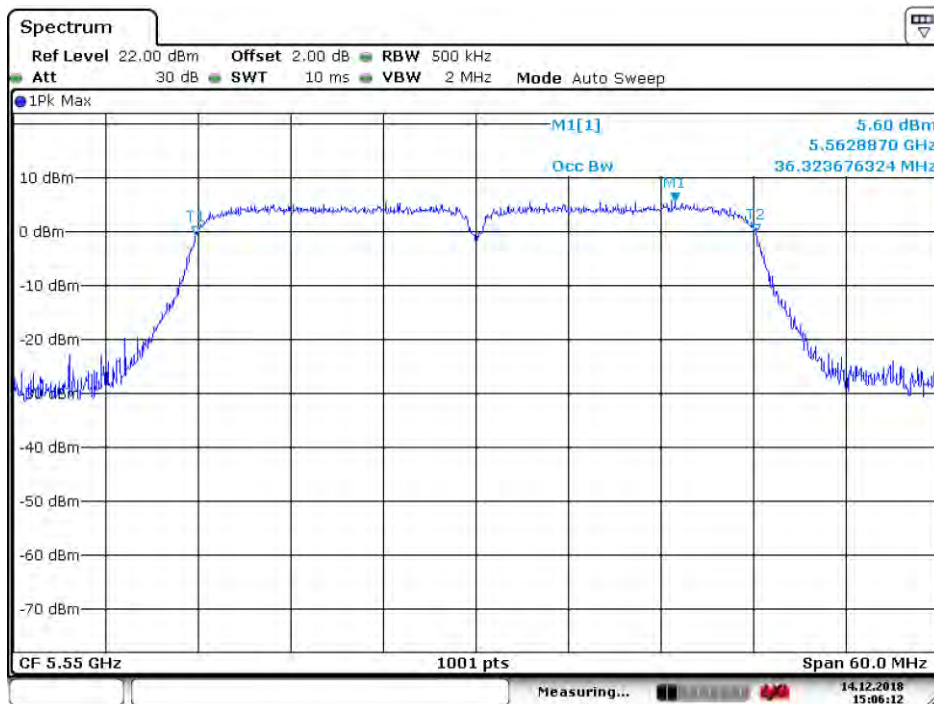


Date: 14.DEC.2018 15:06:52

4.5.2.134 11AC40\_MIMO\_110 ANT 1

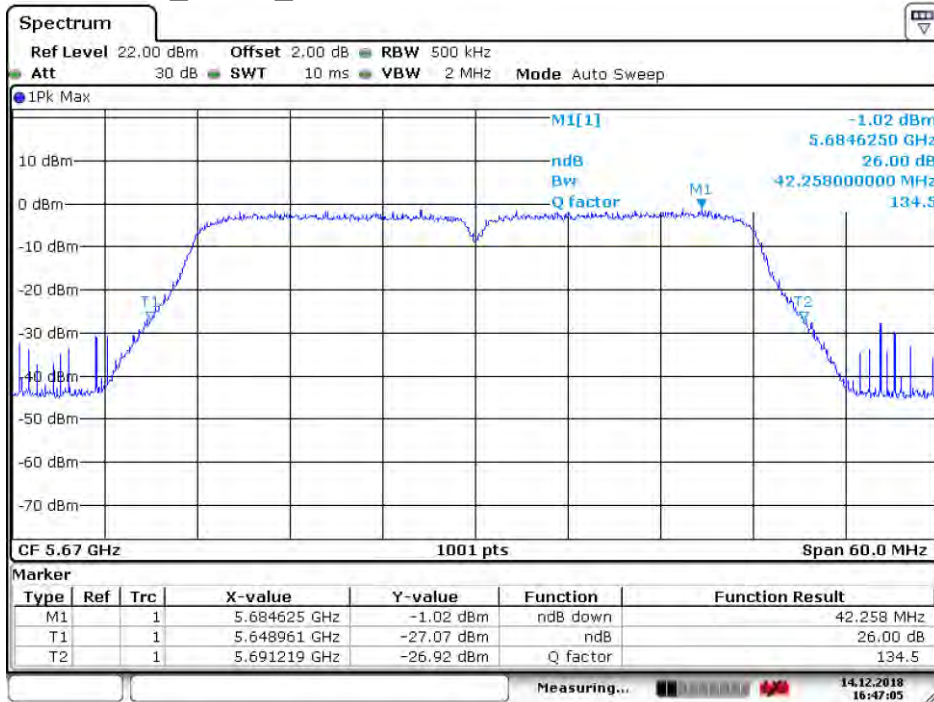


Date: 14.DEC.2018 16:47:44

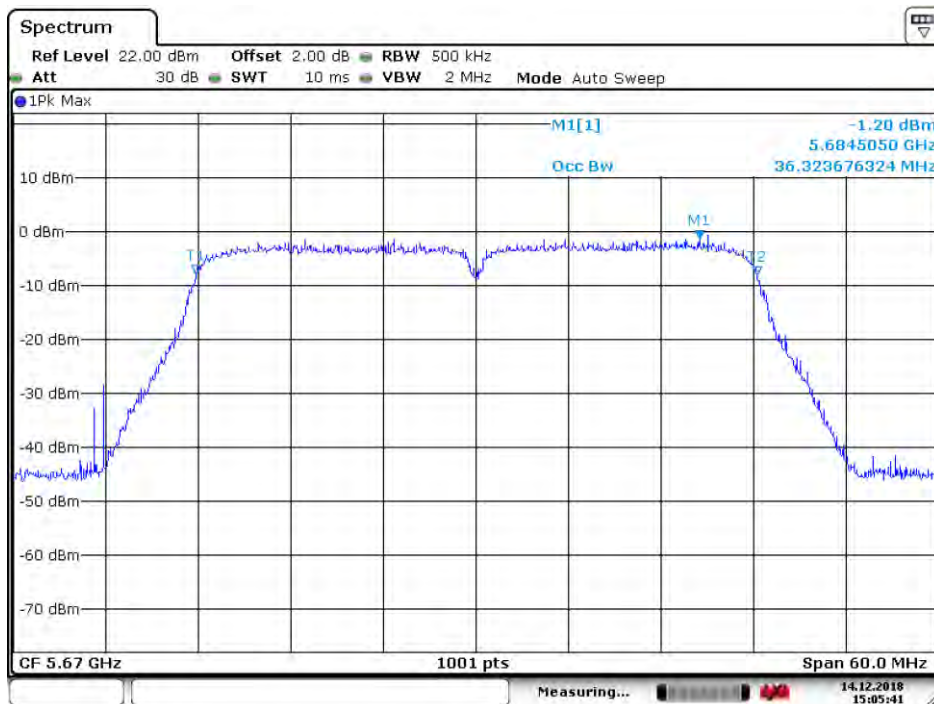


Date: 14.DEC.2018 15:06:12

4.5.2.135 11AC40\_MIMO\_134 ANT 1

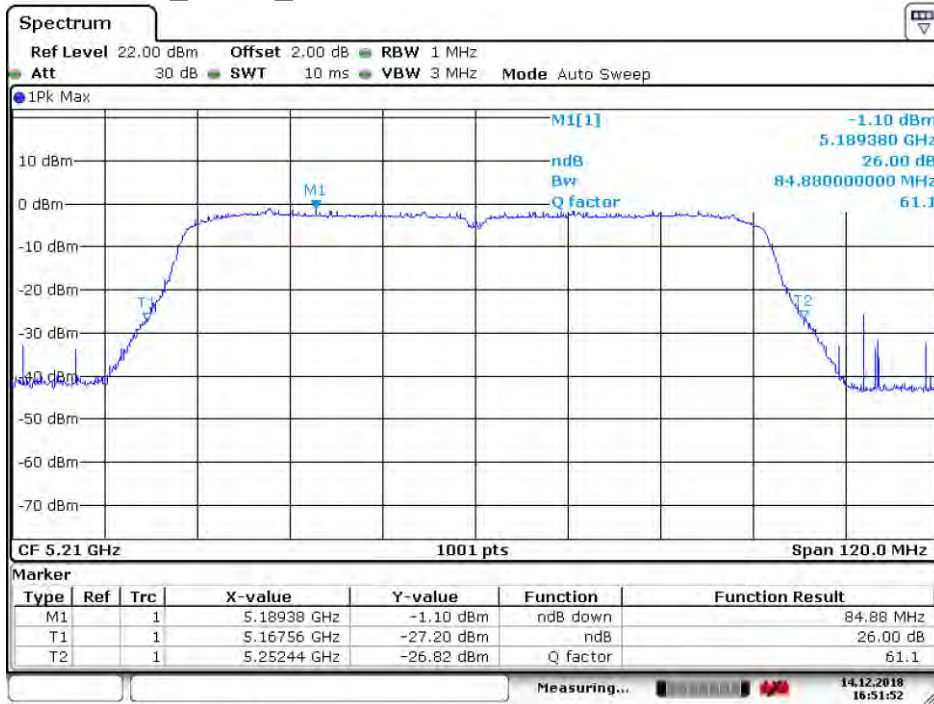


Date: 14.DEC.2018 16:47:05

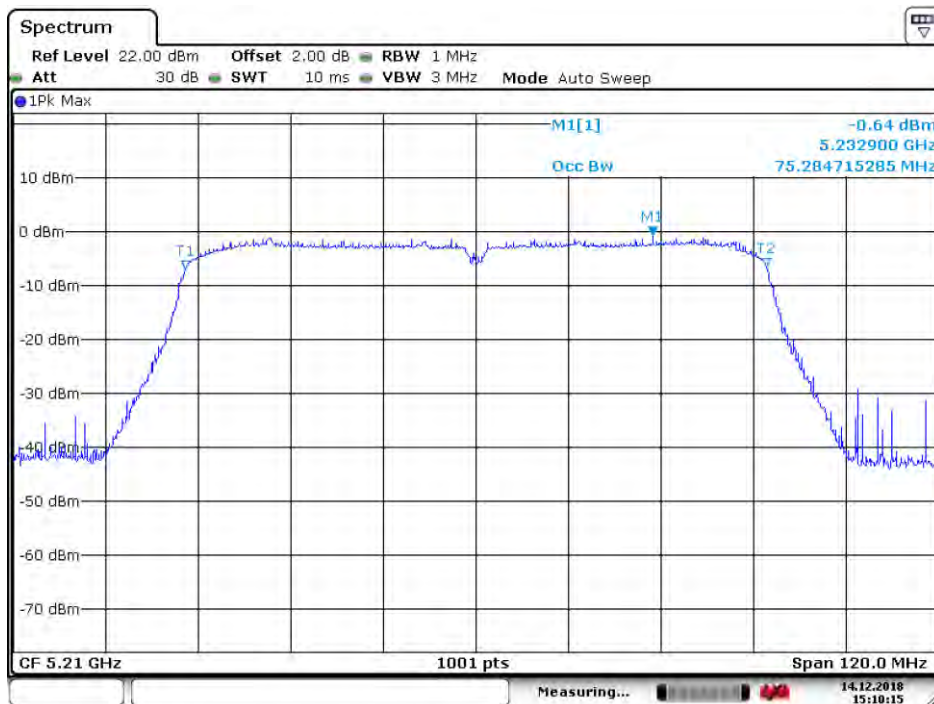


Date: 14.DEC.2018 15:05:42

4.5.2.136 11AC80\_MIMO\_42 ANT 1

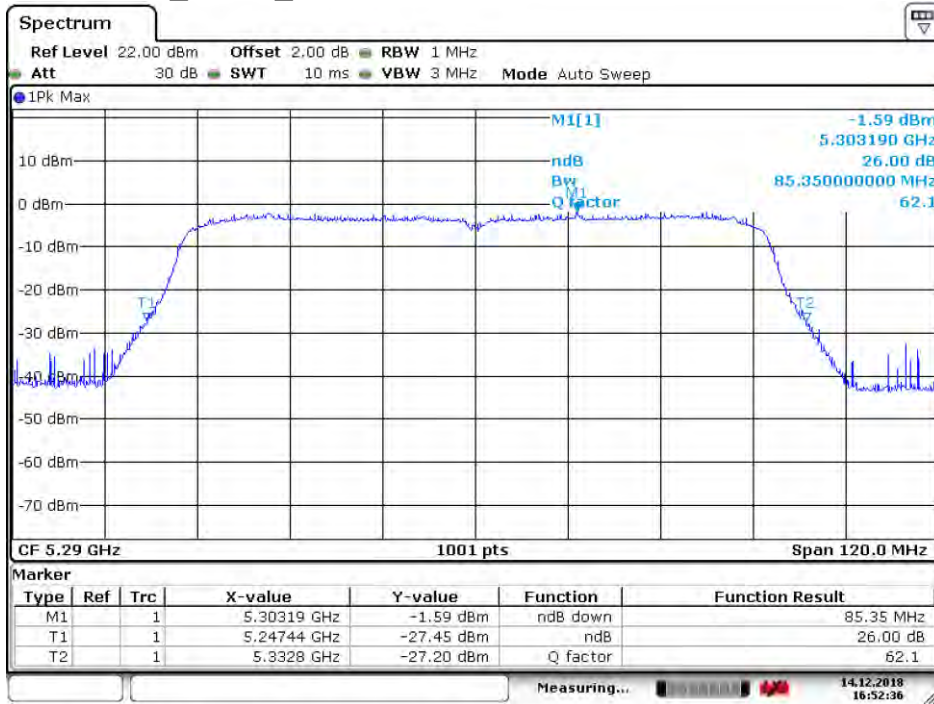


Date: 14.DEC.2018 16:51:52



Date: 14.DEC.2018 15:10:16

4.5.2.137 11AC80\_MIMO\_58 ANT 1



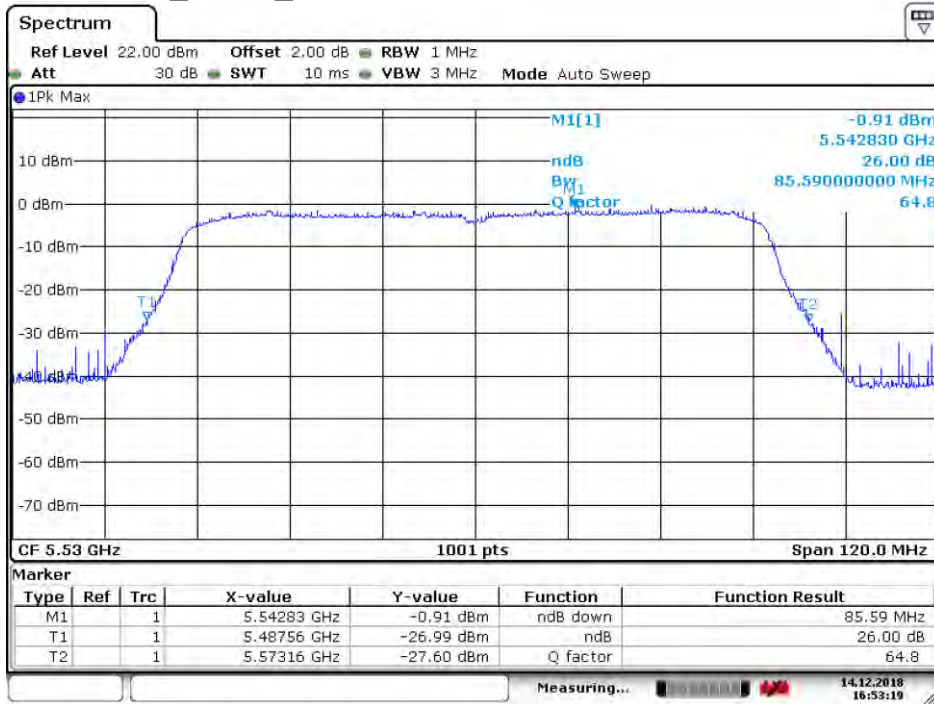
Date: 14.DEC.2018 16:52:37



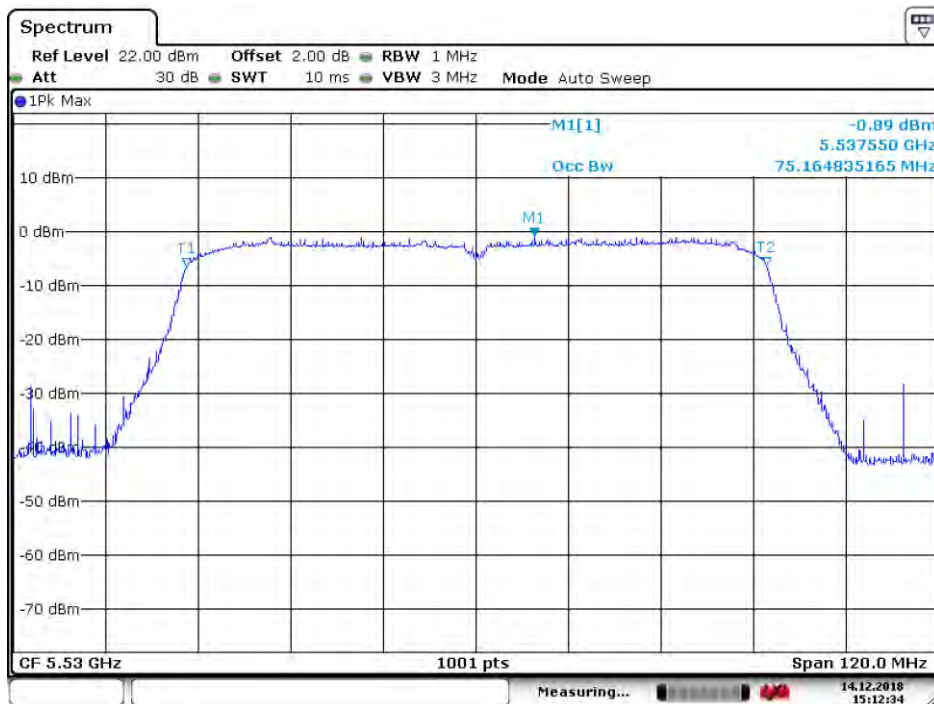
Date: 14.DEC.2018 15:12:03



4.5.2.138 11AC80\_MIMO\_106 ANT 1

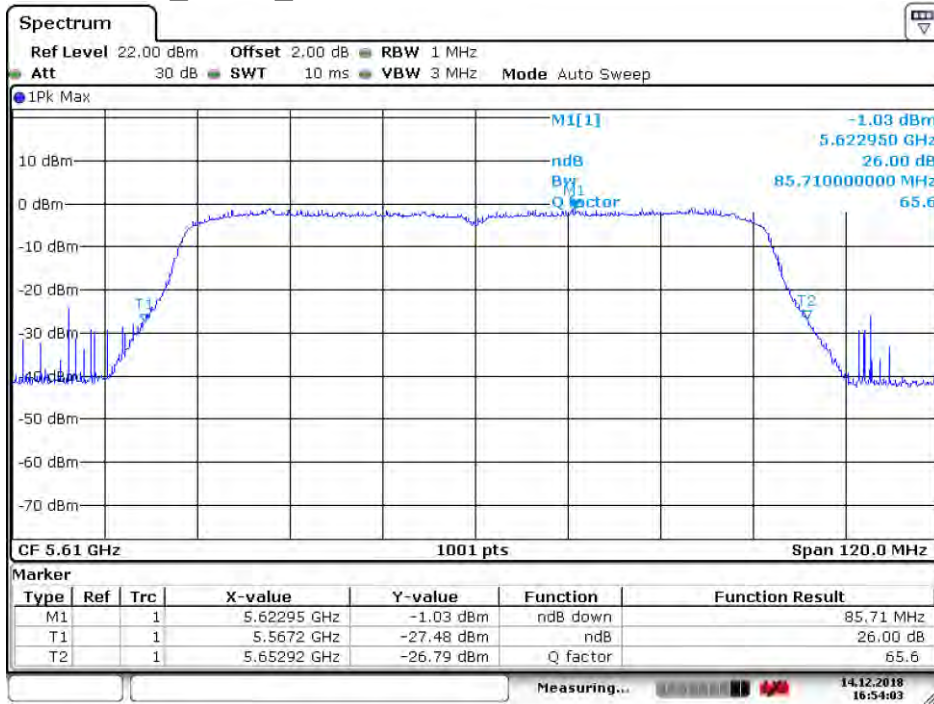


Date: 14.DEC.2018 16:53:19

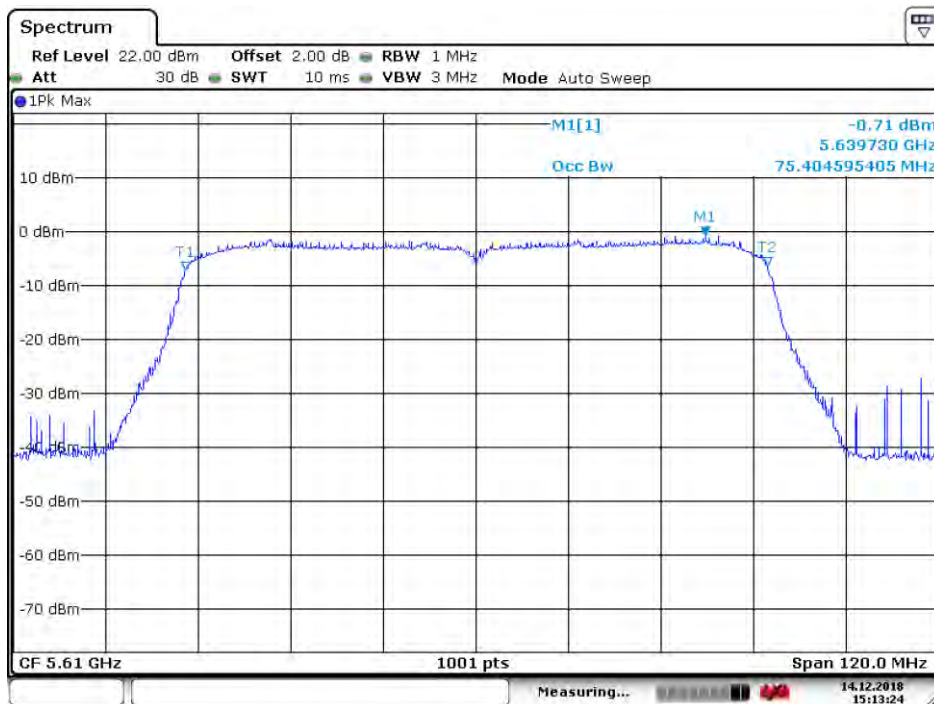


Date: 14.DEC.2018 15:12:34

4.5.2.139 11AC80\_MIMO\_122 ANT 1

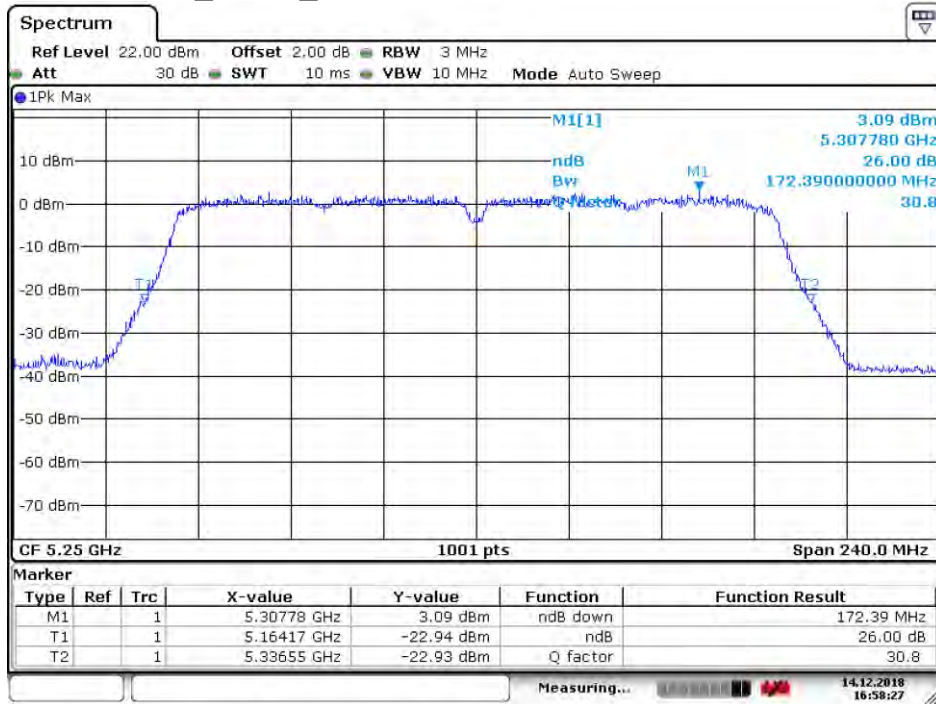


Date: 14.DEC.2018 16:54:02

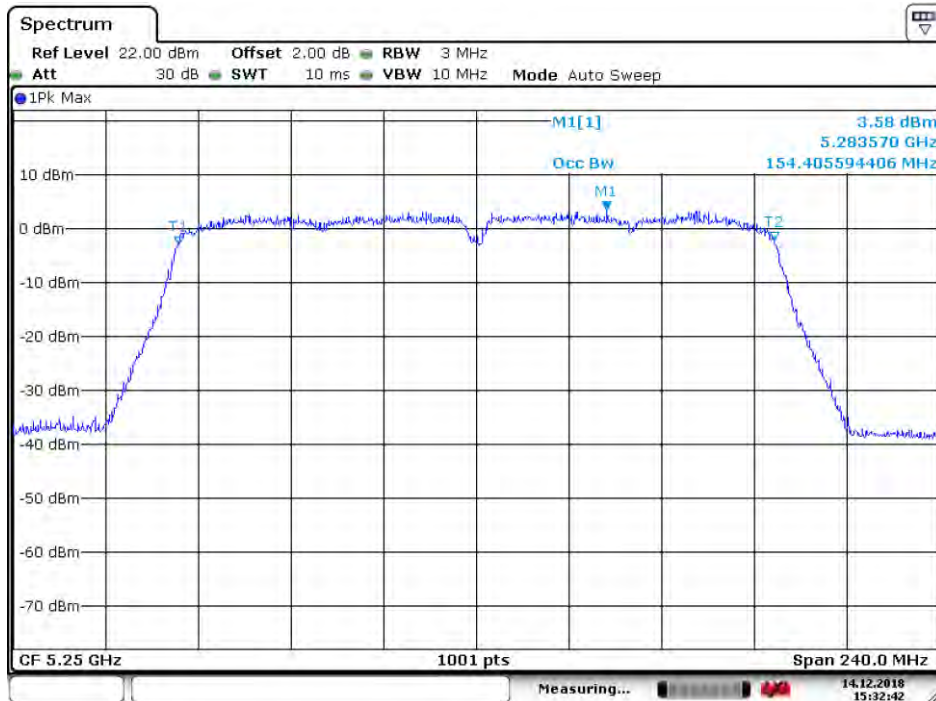


Date: 14.DEC.2018 15:13:24

4.5.2.140 11AC160\_MIMO\_50 ANT 1

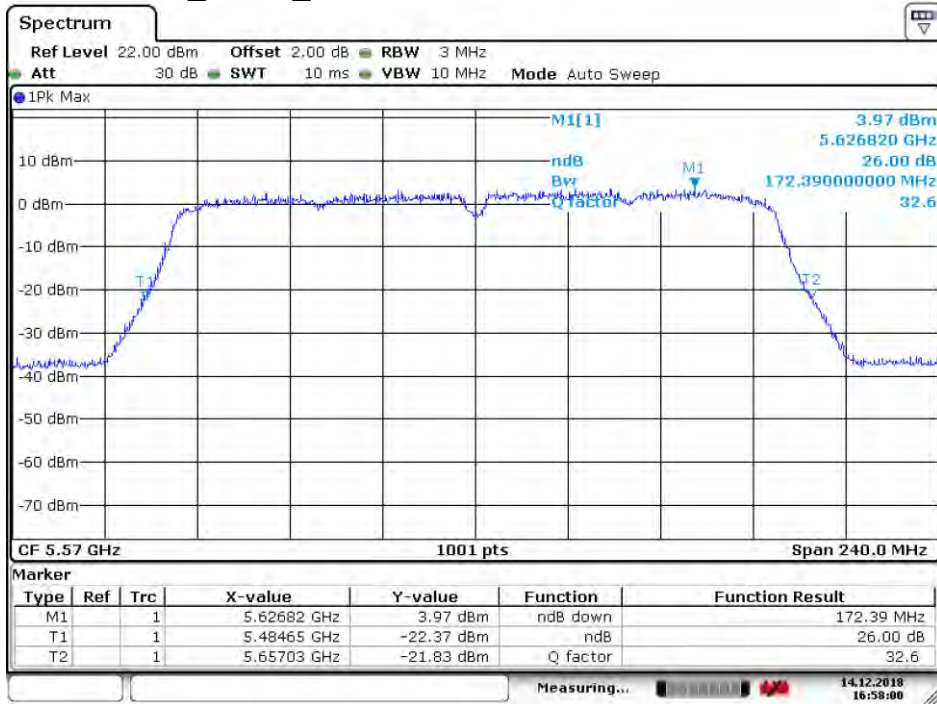


Date: 14 DEC.2018 16:58:28

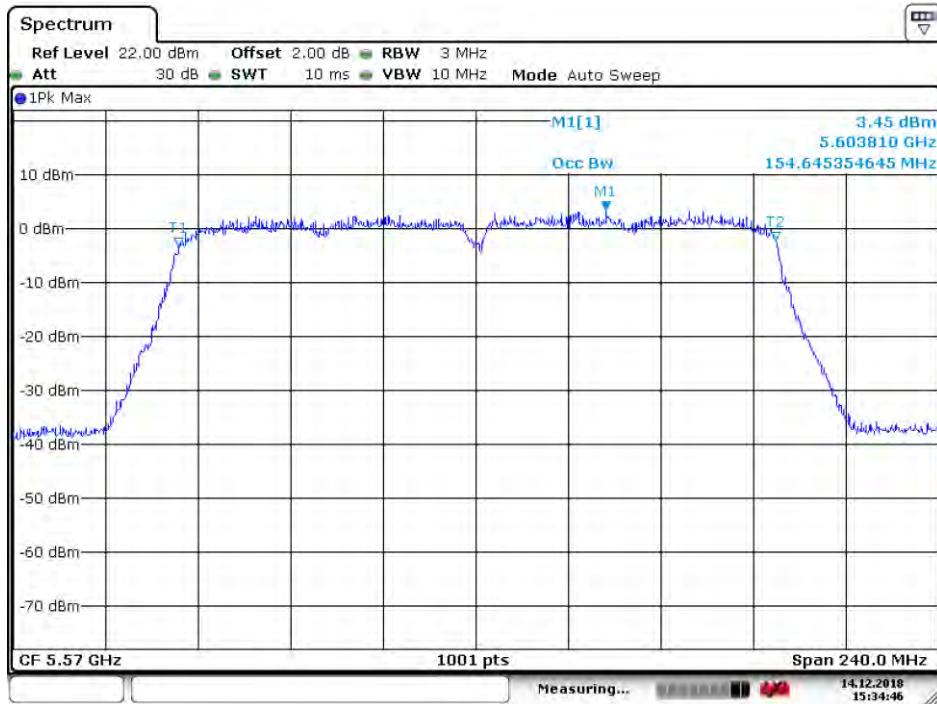


Date: 14 DEC.2018 15:32:42

4.5.2.141 11AC160\_MIMO\_114 ANT 1

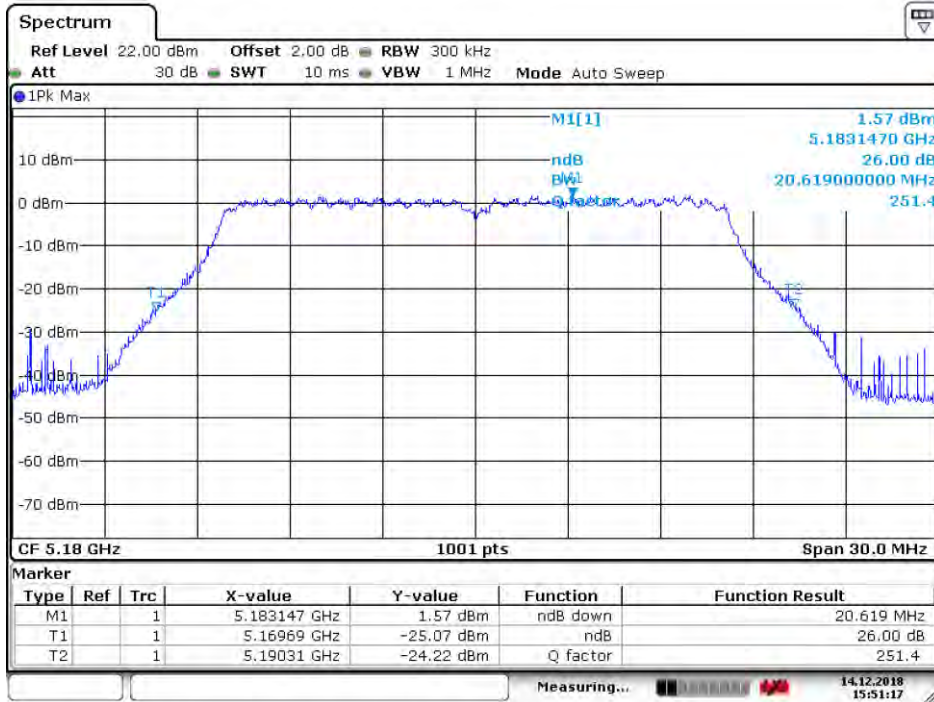


Date: 14.DEC.2018 16:58:00

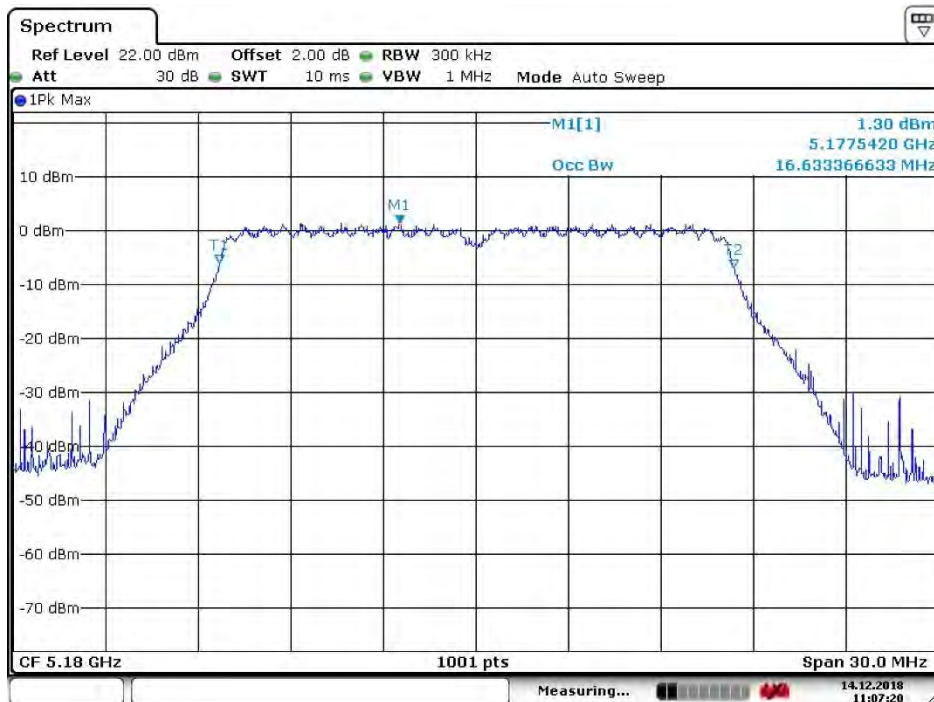


Date: 14.DEC.2018 15:34:46

4.5.2.142 11A20\_CDD\_36 ANT 2

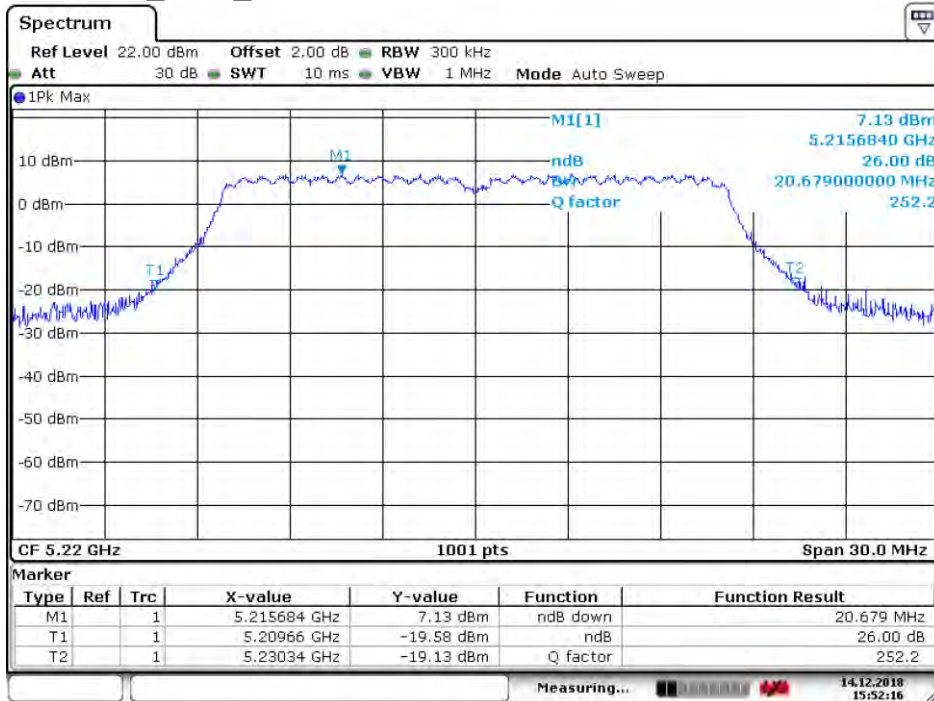


Date: 14.DEC.2018 15:51:17

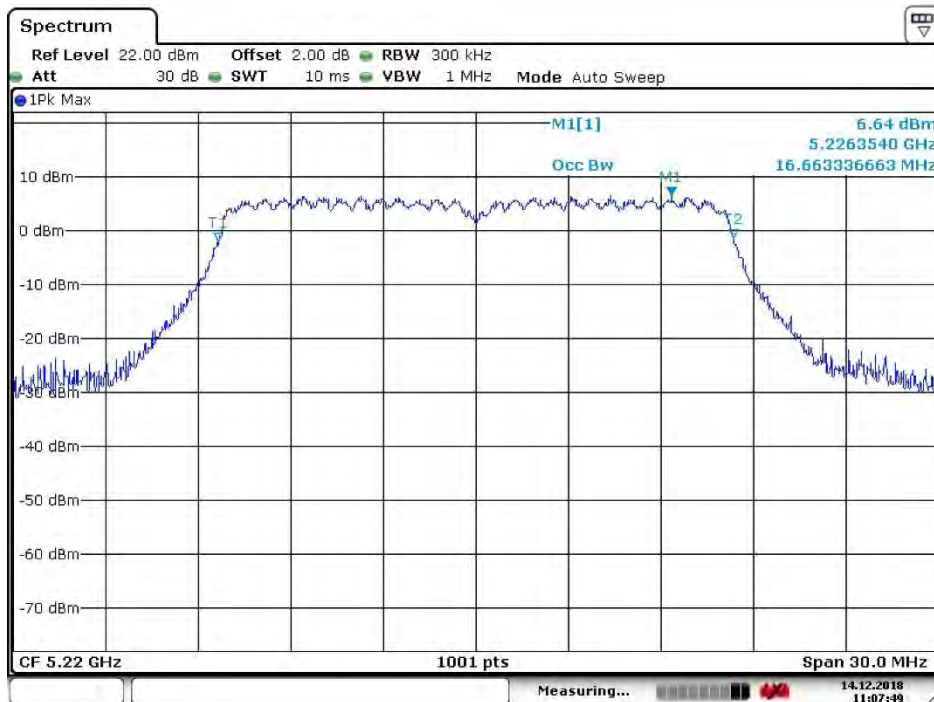


Date: 14.DEC.2018 11:07:20

4.5.2.143 11A20\_CDD\_44 ANT 2

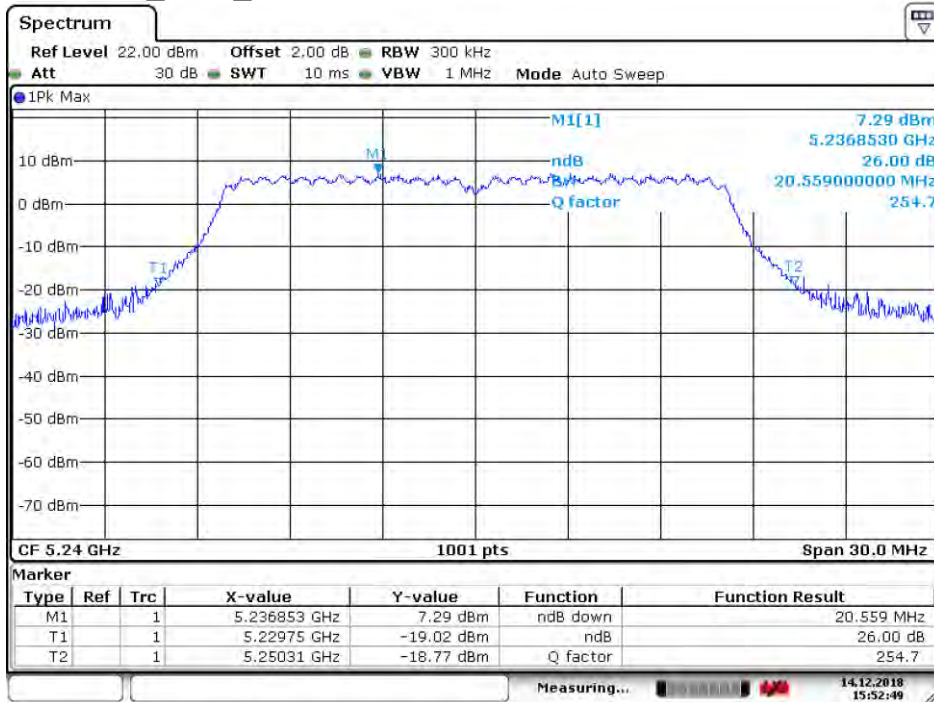


Date: 14.DEC.2018 15:52:17

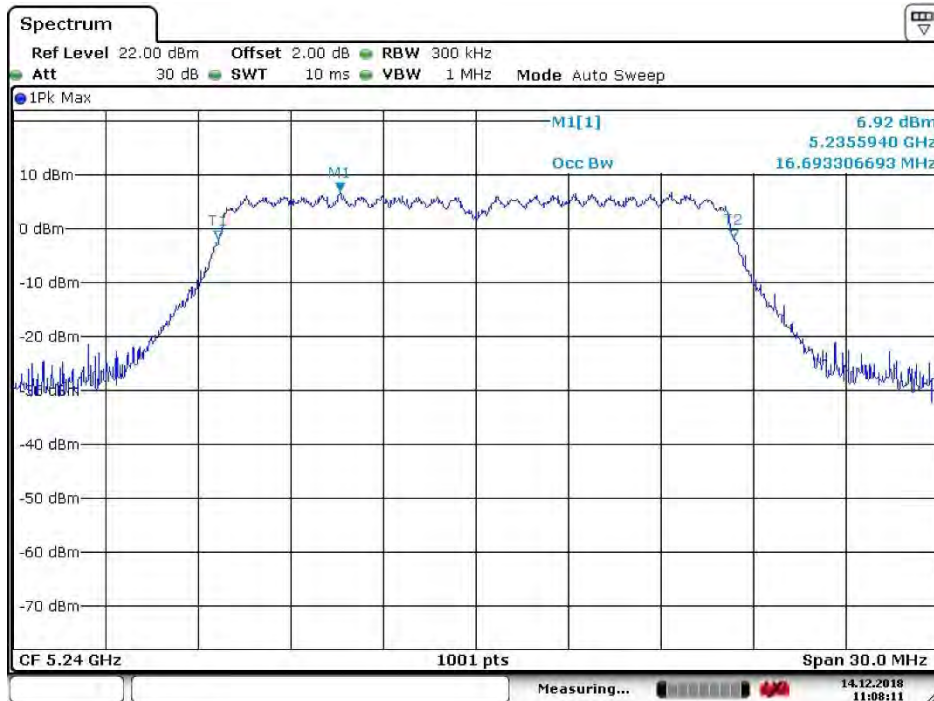


Date: 14.DEC.2018 11:07:49

4.5.2.144 11A20\_CDD\_48 ANT 2

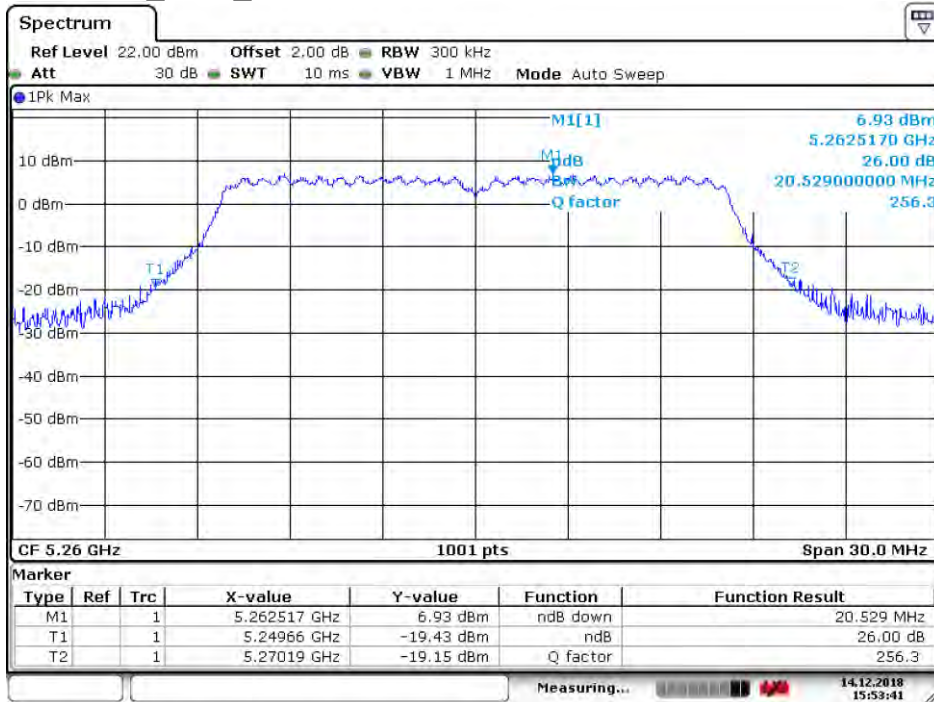


Date: 14.DEC.2018 15:52:49

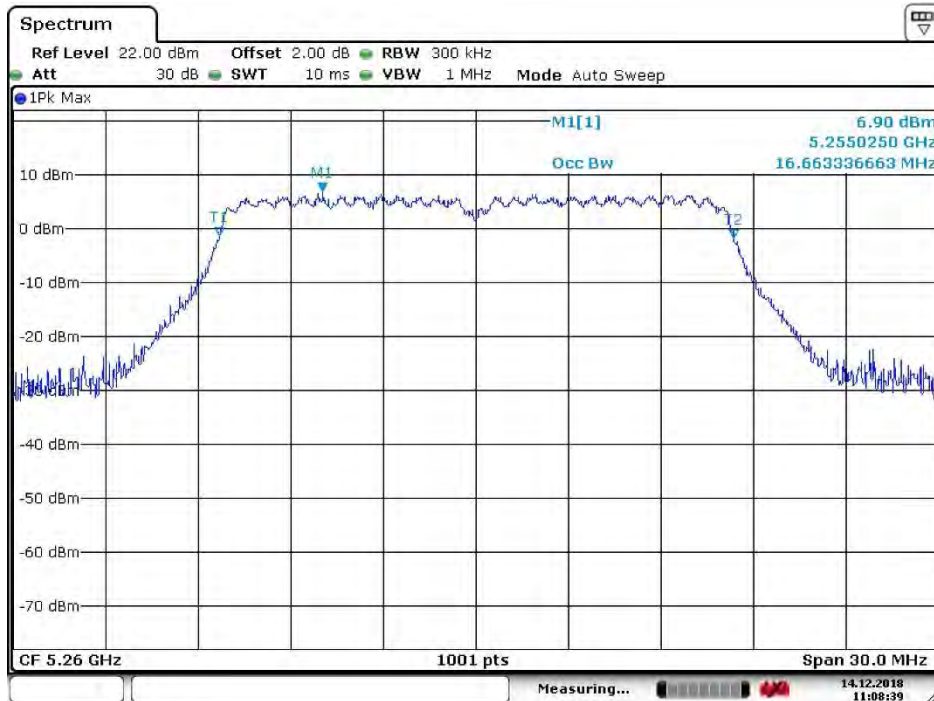


Date: 14.DEC.2018 11:08:11

4.5.2.145 11A20\_CDD\_52 ANT 2



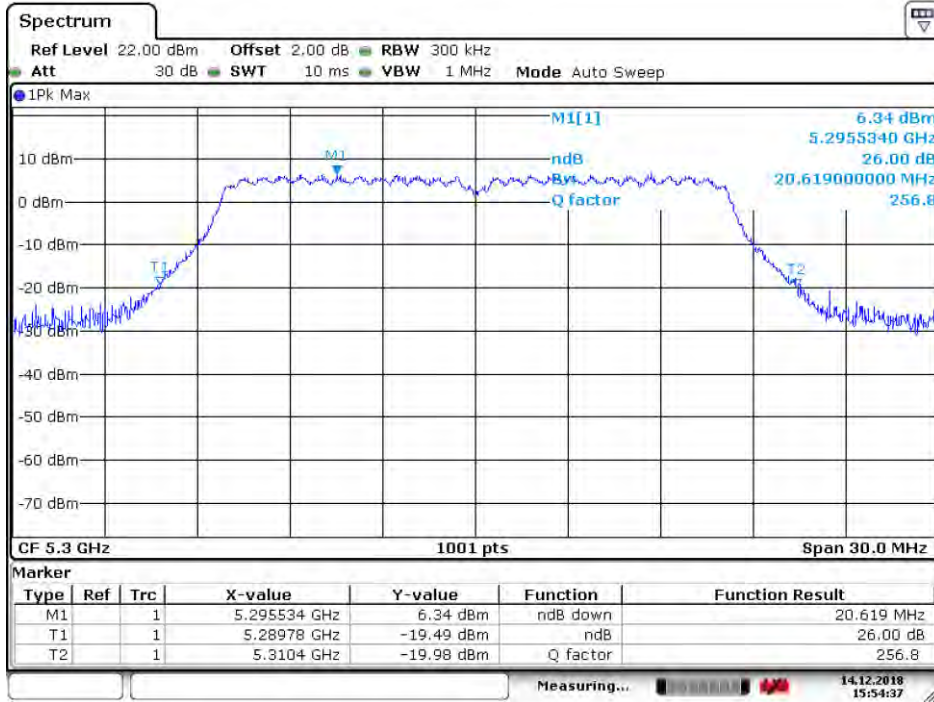
Date: 14.DEC.2018 15:53:41



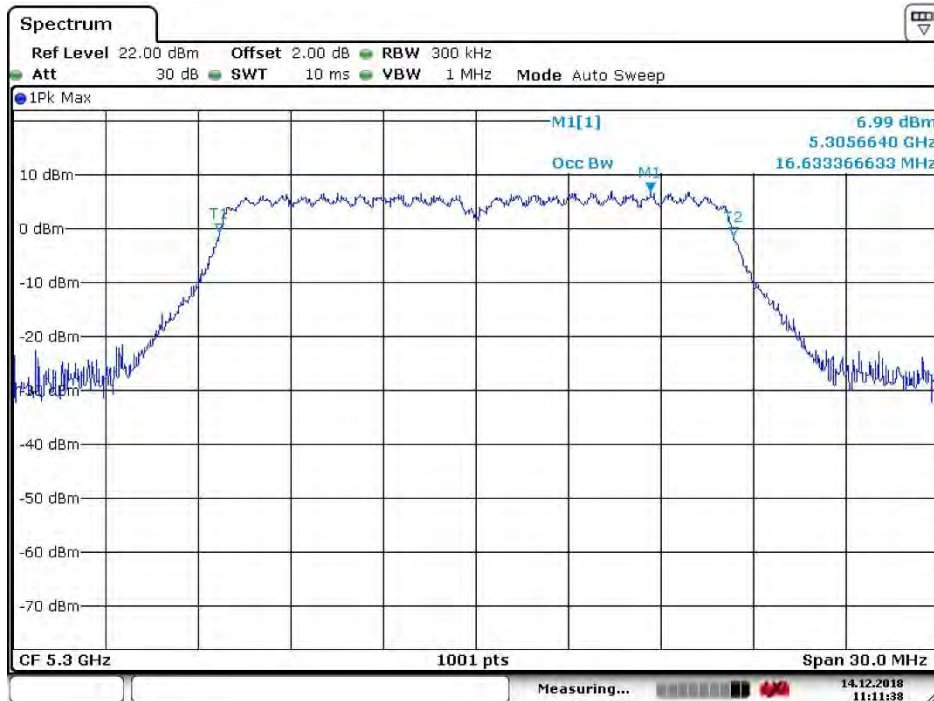
Date: 14.DEC.2018 11:08:40



4.5.2.146 11A20\_CDD\_60 ANT 2

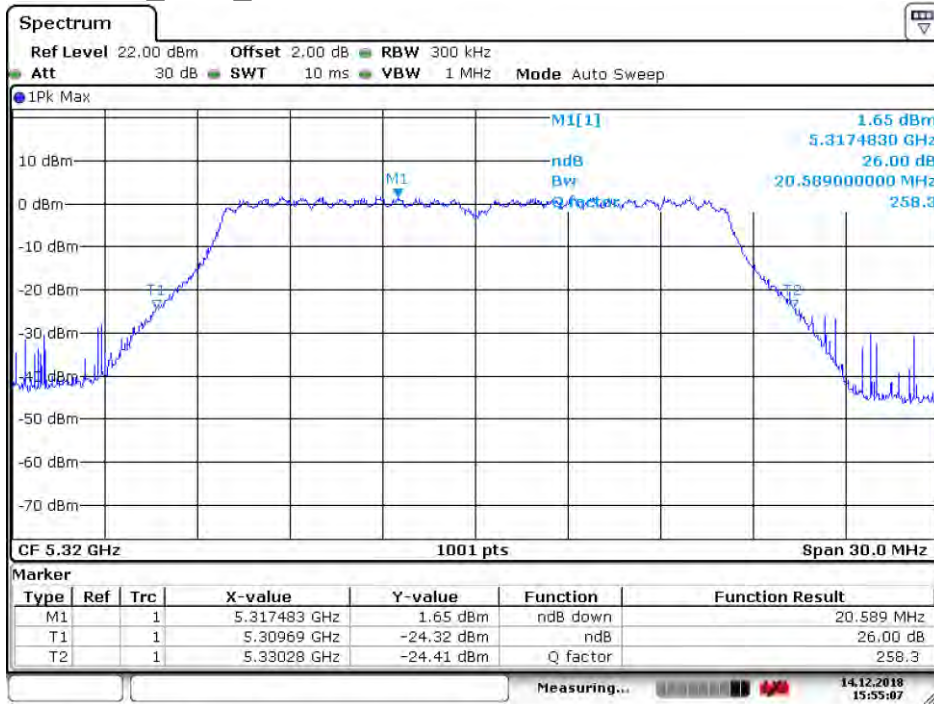


Date: 14.DEC.2018 15:54:38

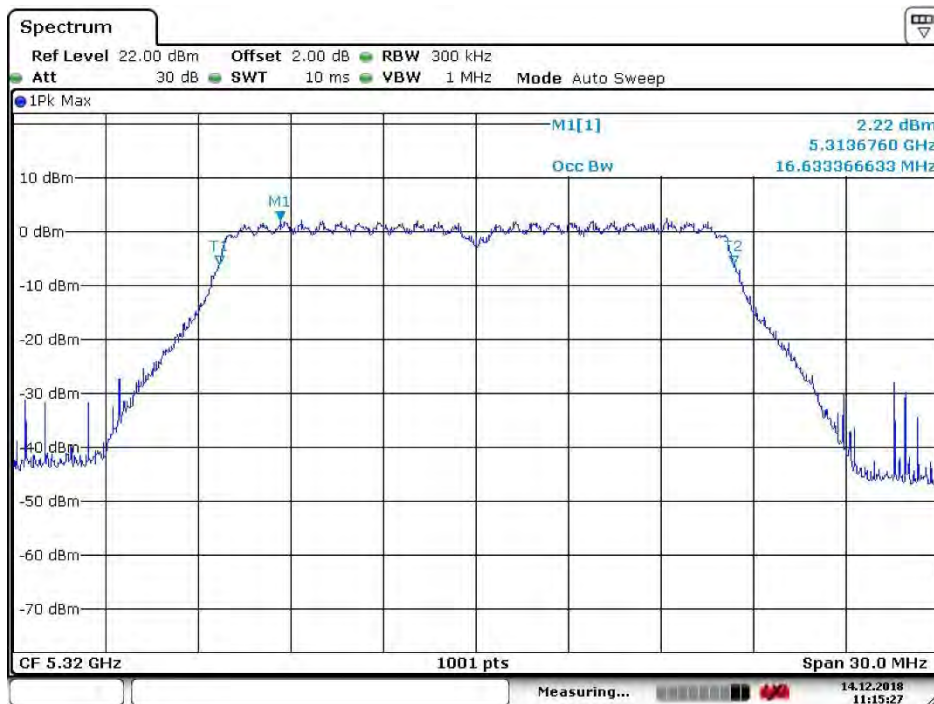


Date: 14.DEC.2018 11:11:38

**4.5.2.147 11A20\_CDD\_64 ANT 2**

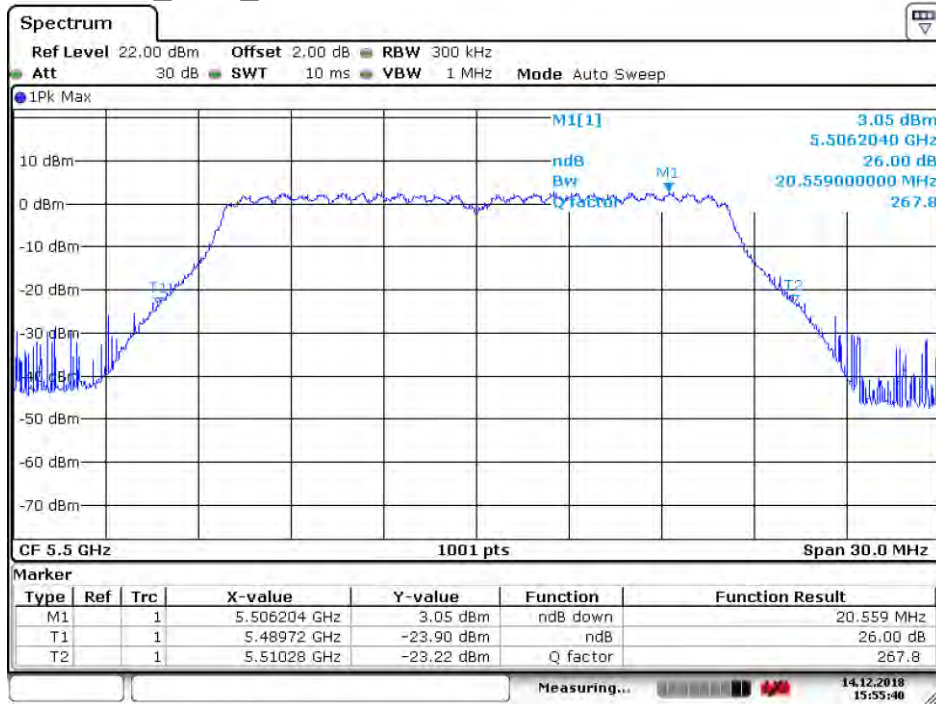


Date: 14.DEC.2018 15:55:07

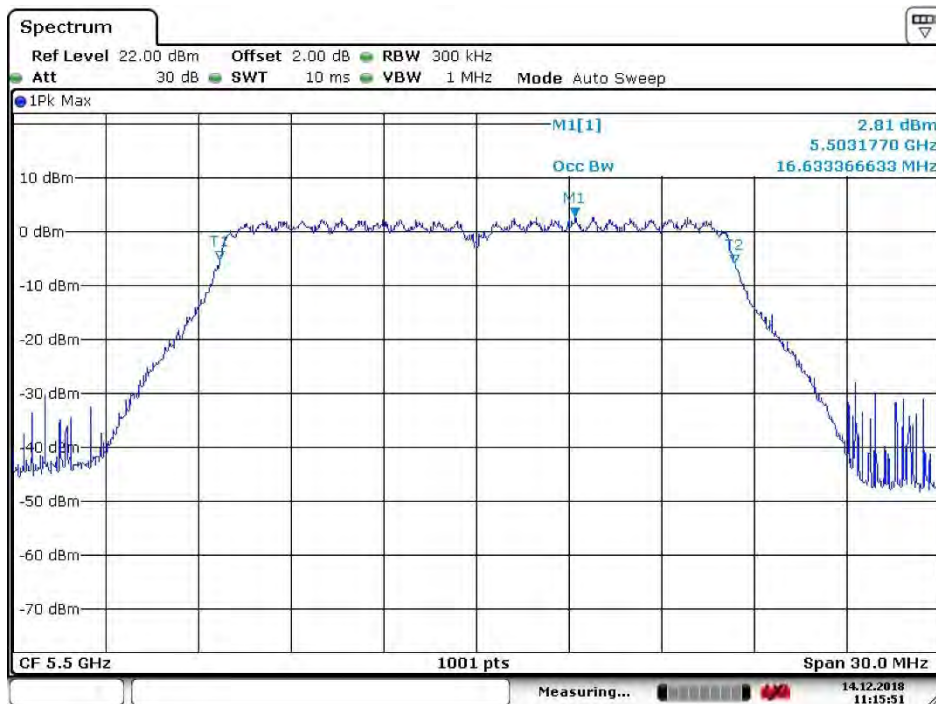


Date: 14.DEC.2018 11:15:27

4.5.2.148 11A20\_CDD\_100 ANT 2

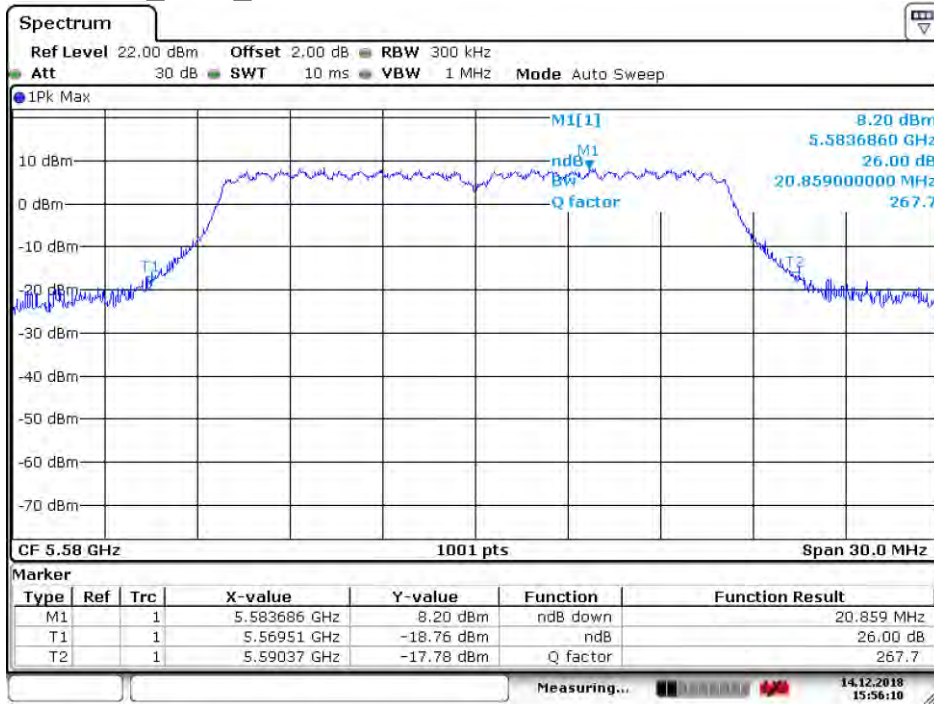


Date: 14 DEC.2018 15:55:40

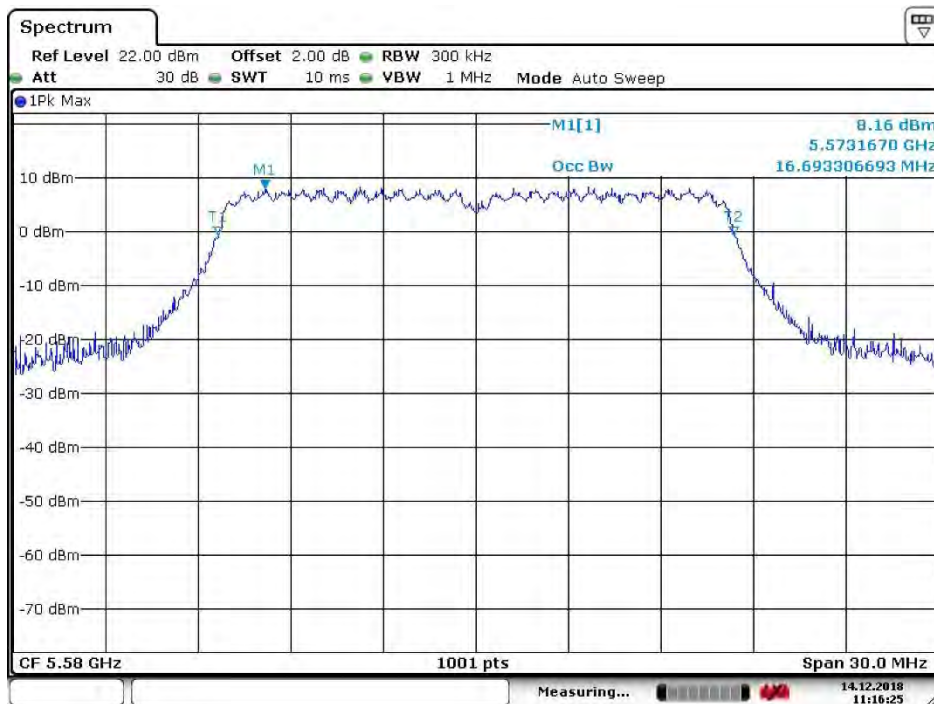


Date: 14 DEC.2018 11:15:52

4.5.2.149 11A20\_CDD\_116 ANT 2

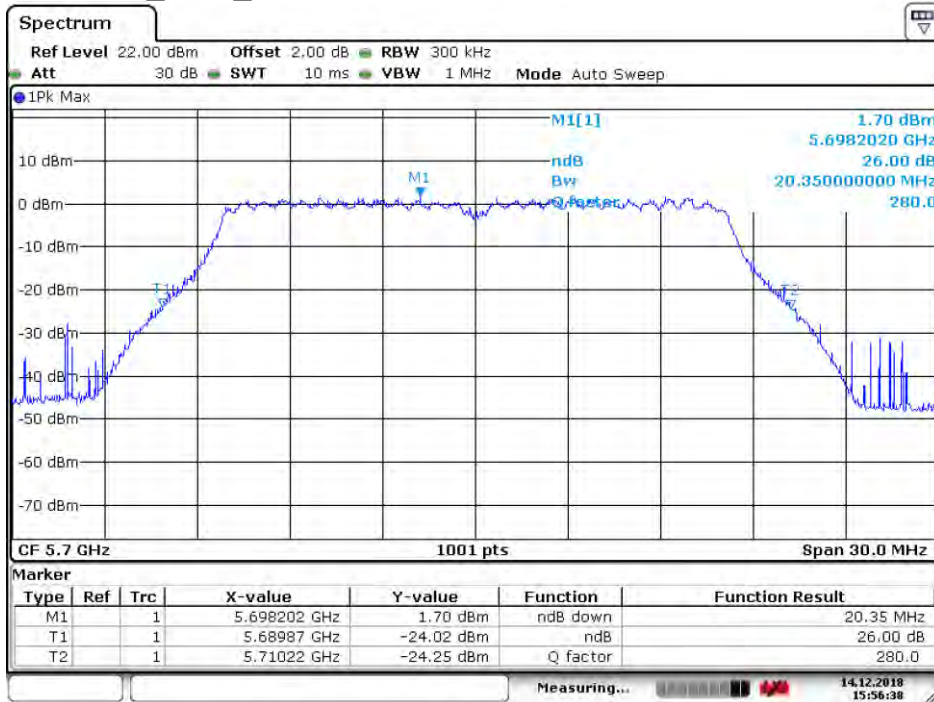


Date: 14.DEC.2018 15:56:10

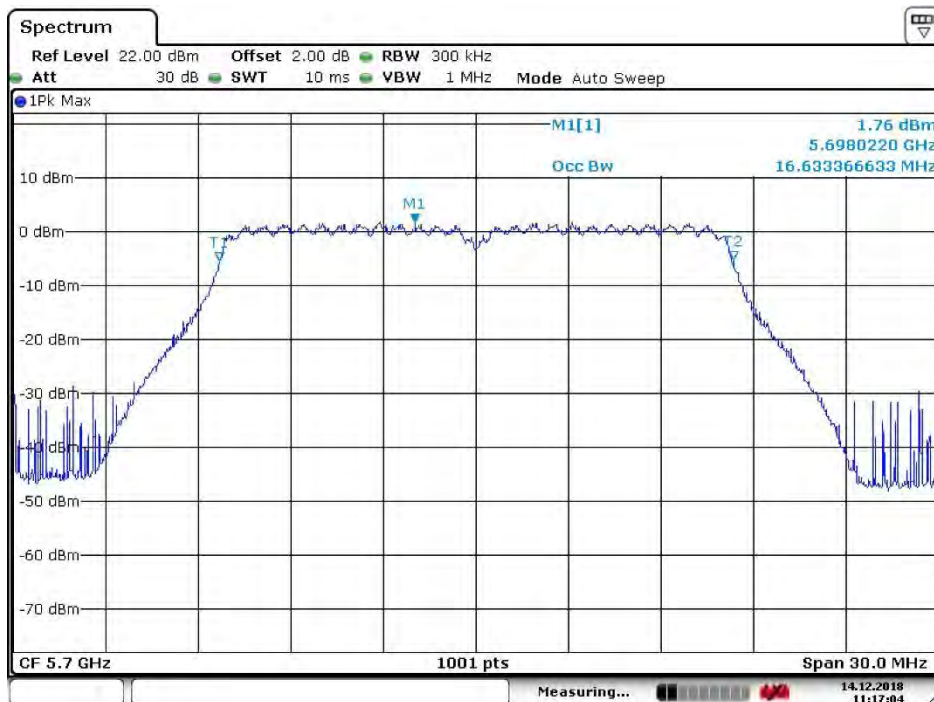


Date: 14.DEC.2018 11:16:25

4.5.2.150 11A20\_CDD\_140 ANT 2

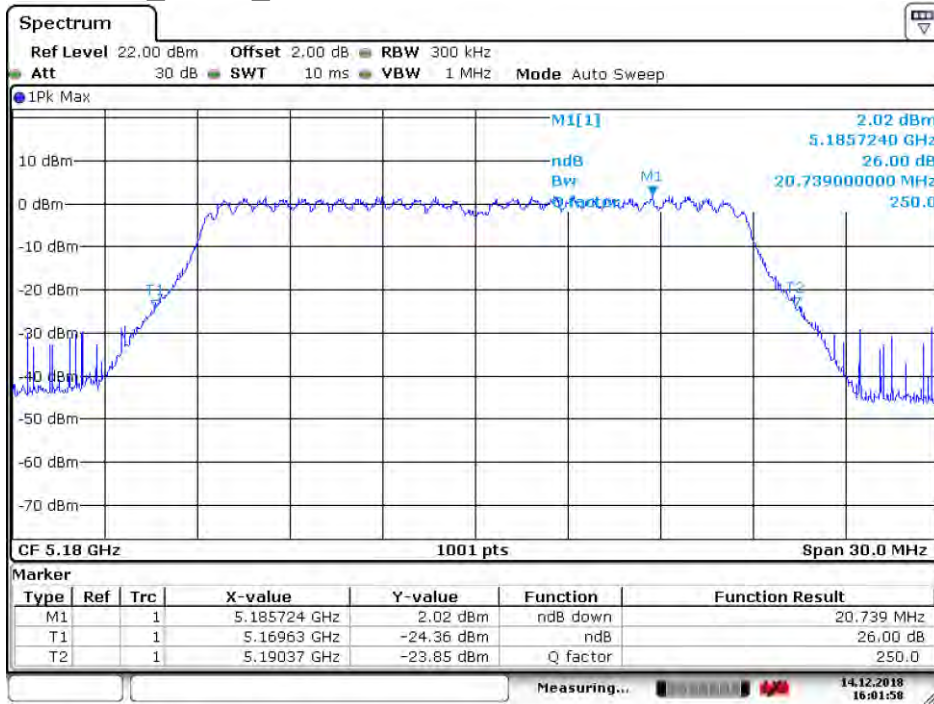


Date: 14.DEC.2018 15:56:38

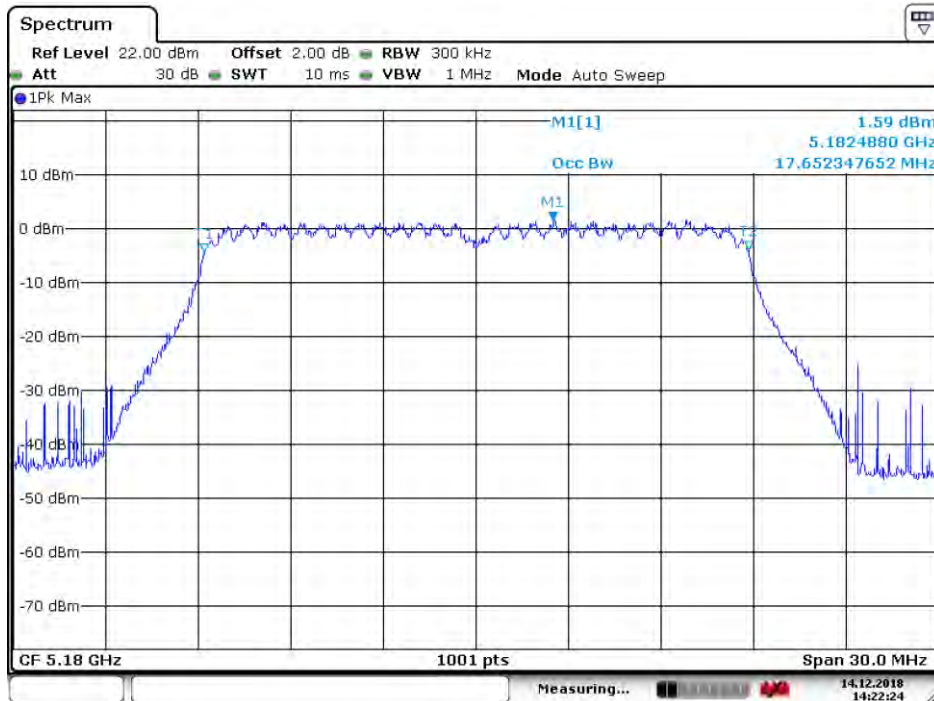


Date: 14.DEC.2018 11:17:05

4.5.2.151 11N20\_MIMO\_36 ANT 2

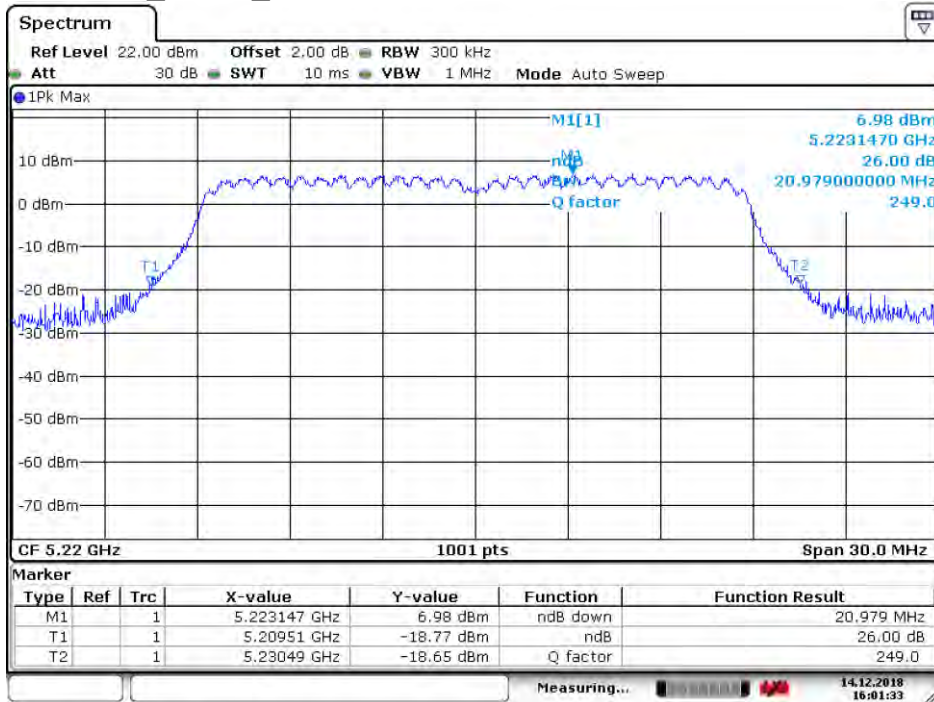


Date: 14.DEC.2018 16:01:59

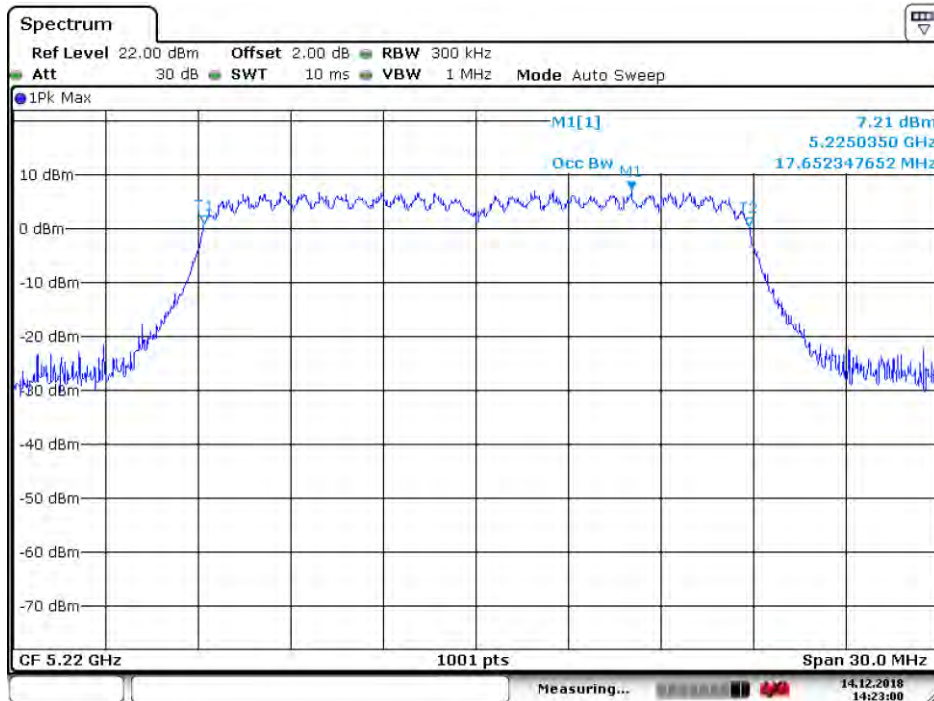


Date: 14.DEC.2018 14:22:25

4.5.2.152 11N20\_MIMO\_44 ANT 2

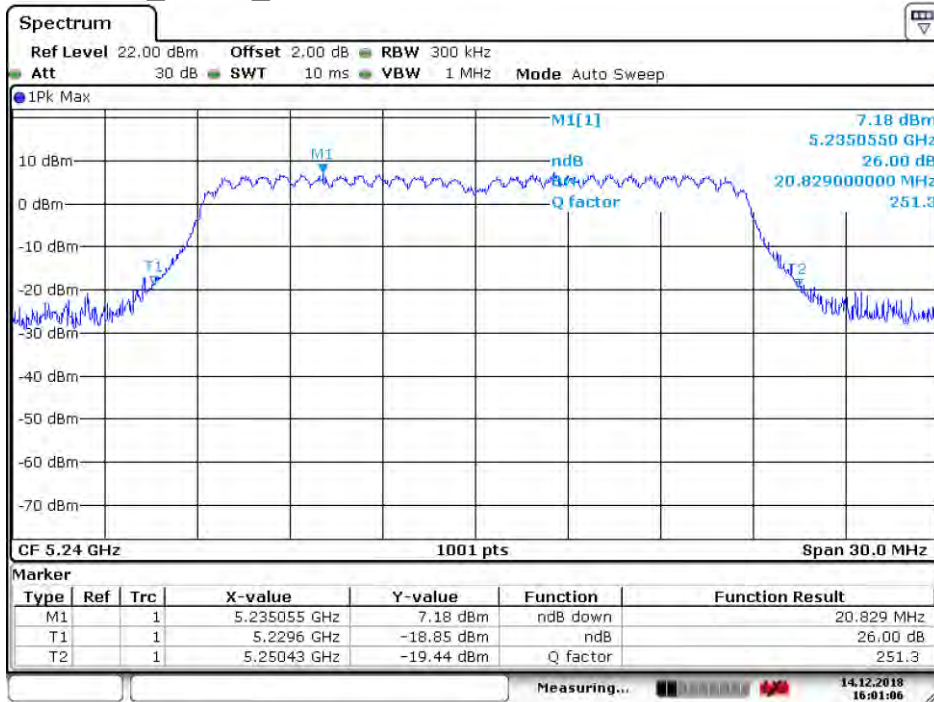


Date: 14.DEC.2018 16:01:33

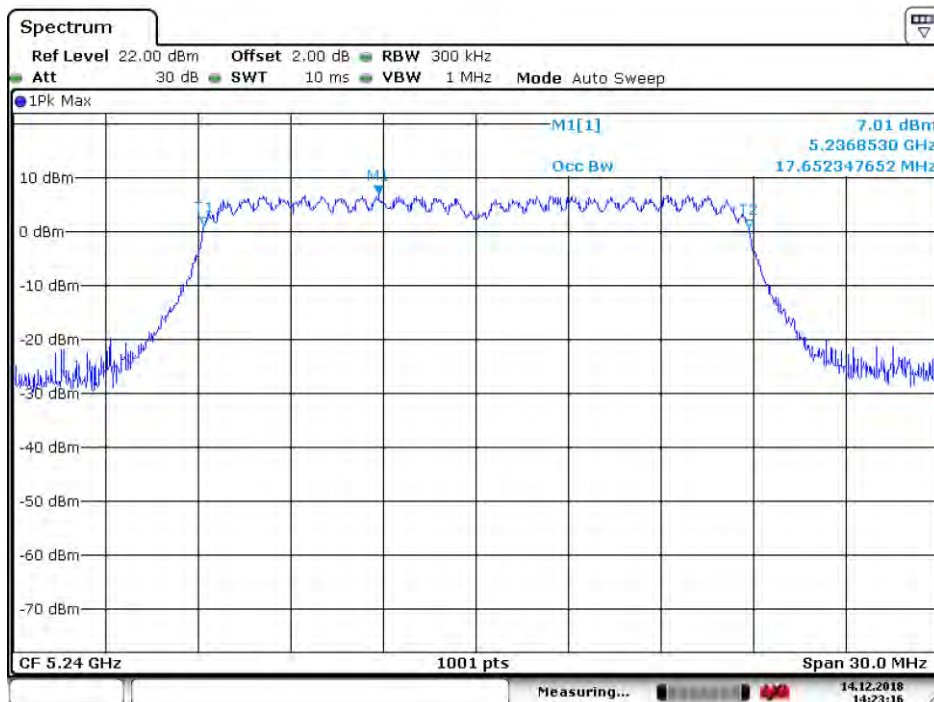


Date: 14.DEC.2018 14:23:00

4.5.2.153 11N20\_MIMO\_48 ANT 2



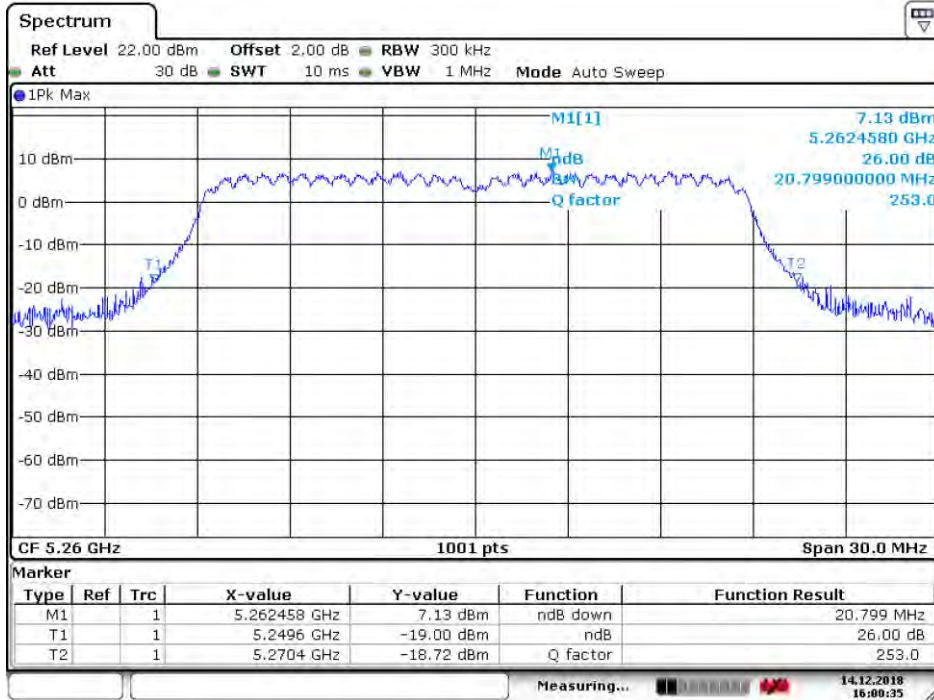
Date: 14.DEC.2018 16:01:06



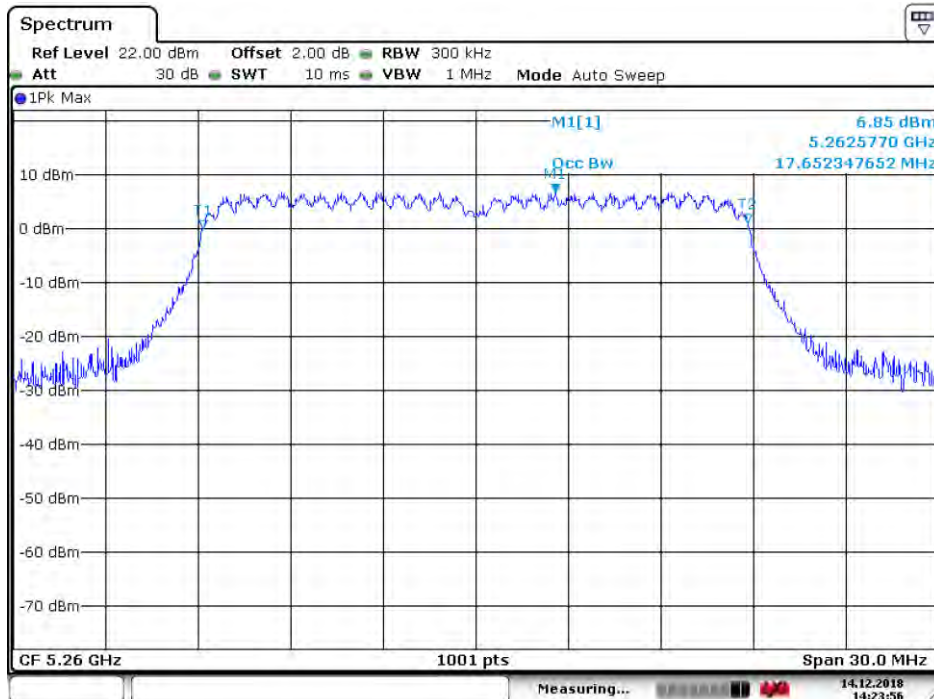
Date: 14.DEC.2018 14:23:16



4.5.2.154 11N20\_MIMO\_52 ANT 2

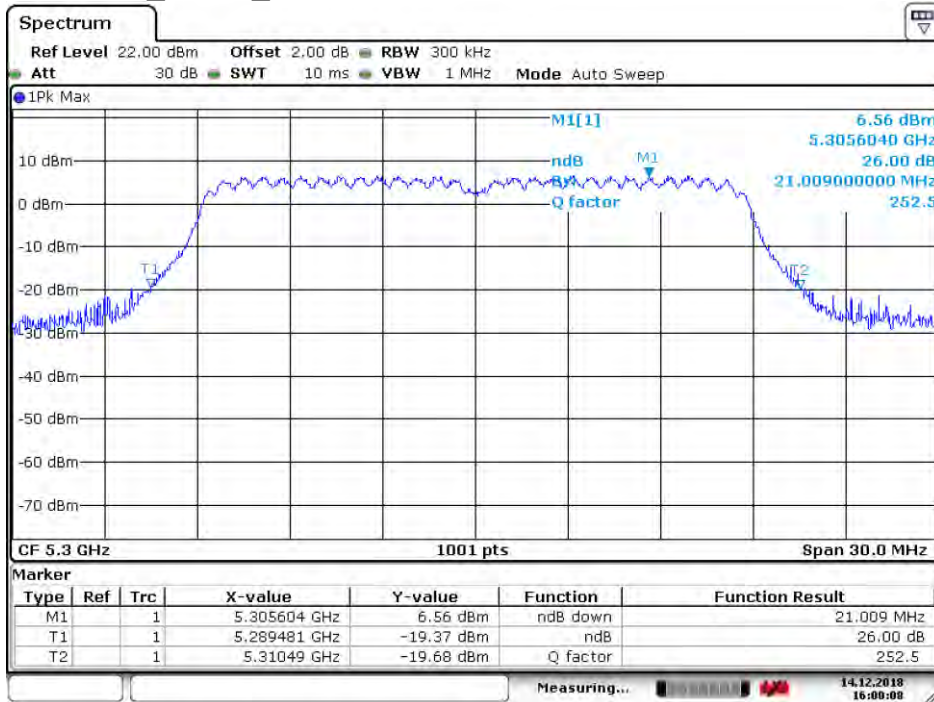


Date: 14.DEC.2018 16:00:36

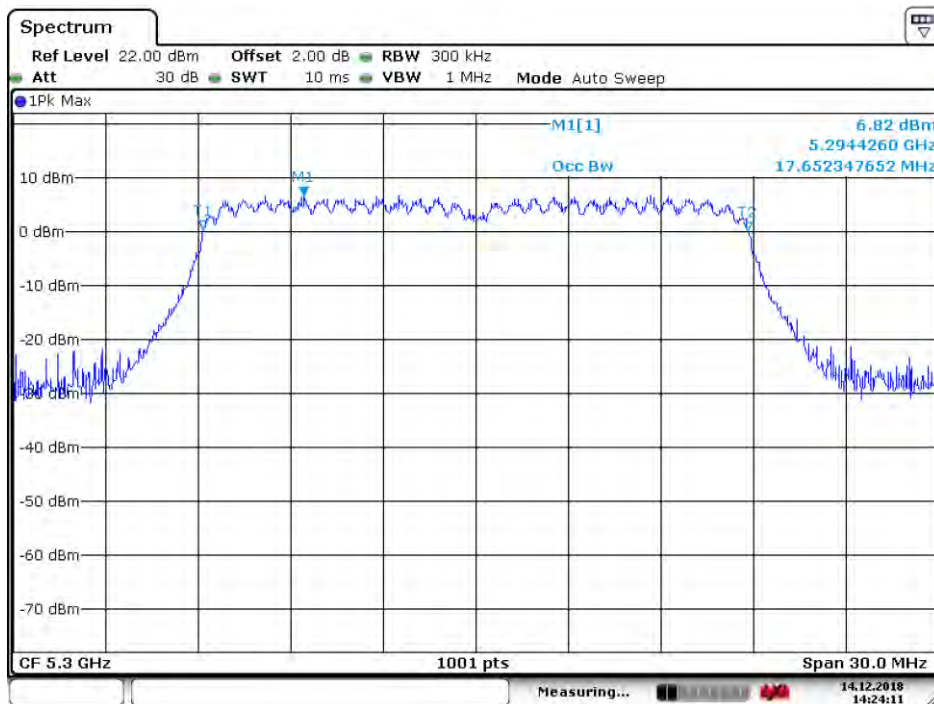


Date: 14.DEC.2018 14:23:56

4.5.2.155 11N20\_MIMO\_60 ANT 2

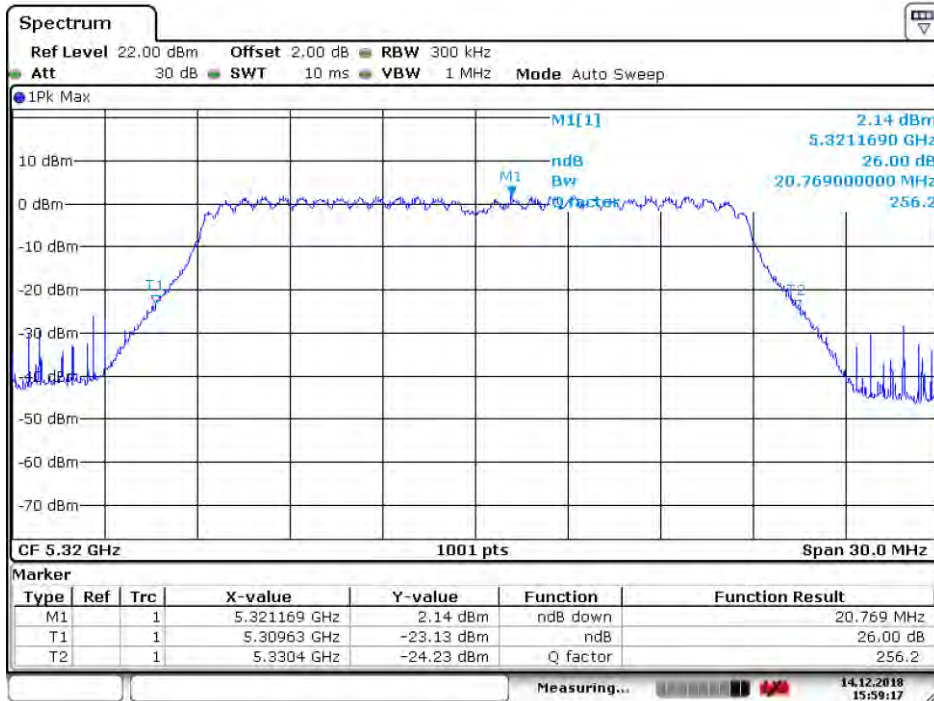


Date: 14.DEC.2018 16:00:08

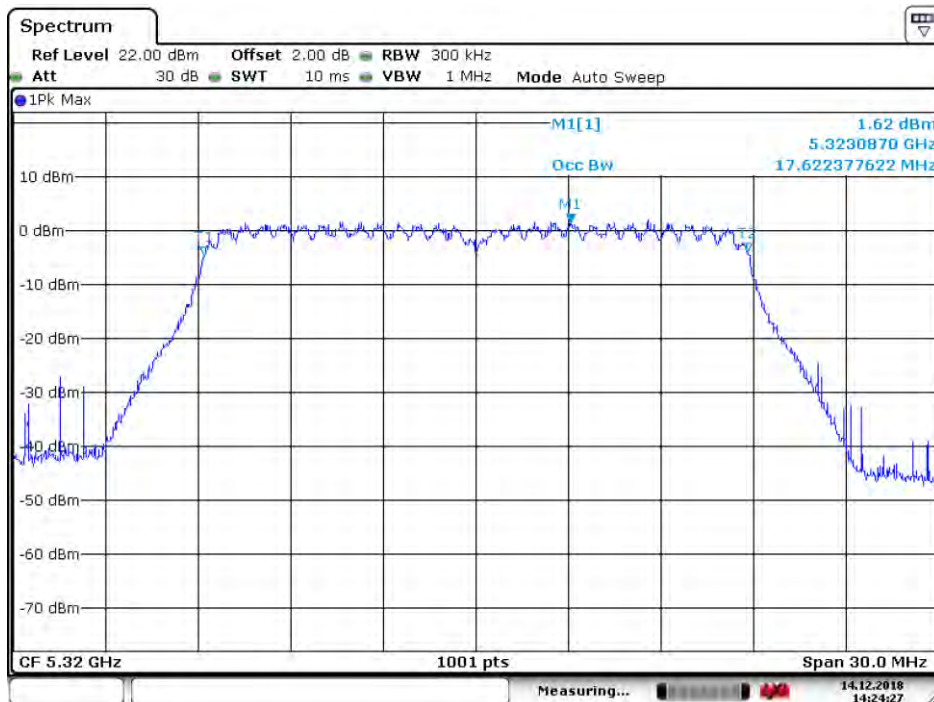


Date: 14.DEC.2018 14:24:12

4.5.2.156 11N20\_MIMO\_64 ANT 2

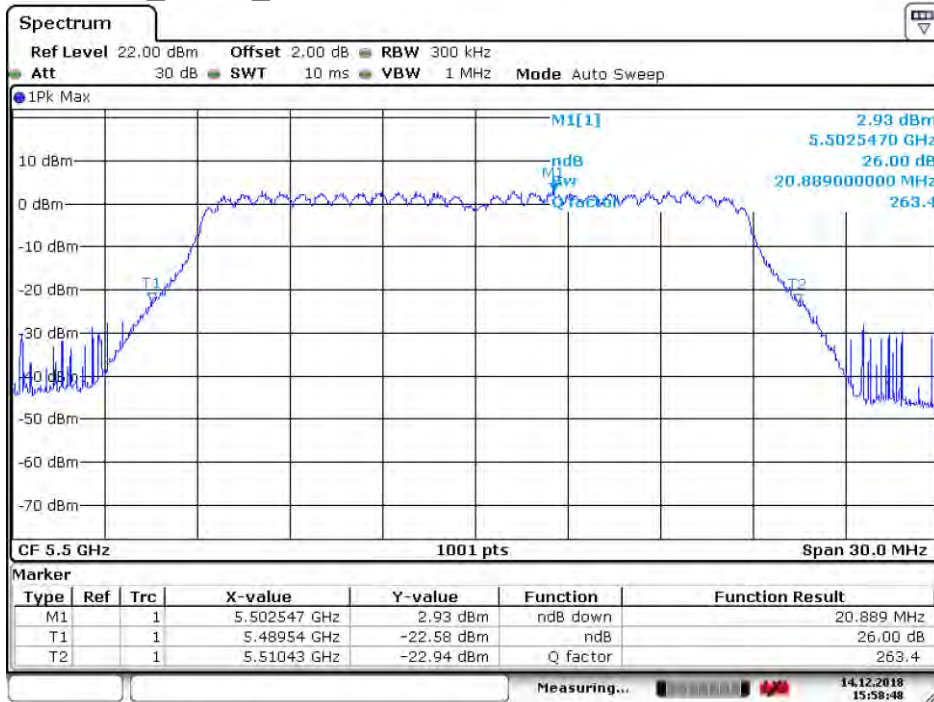


Date: 14.DEC.2018 15:59:18

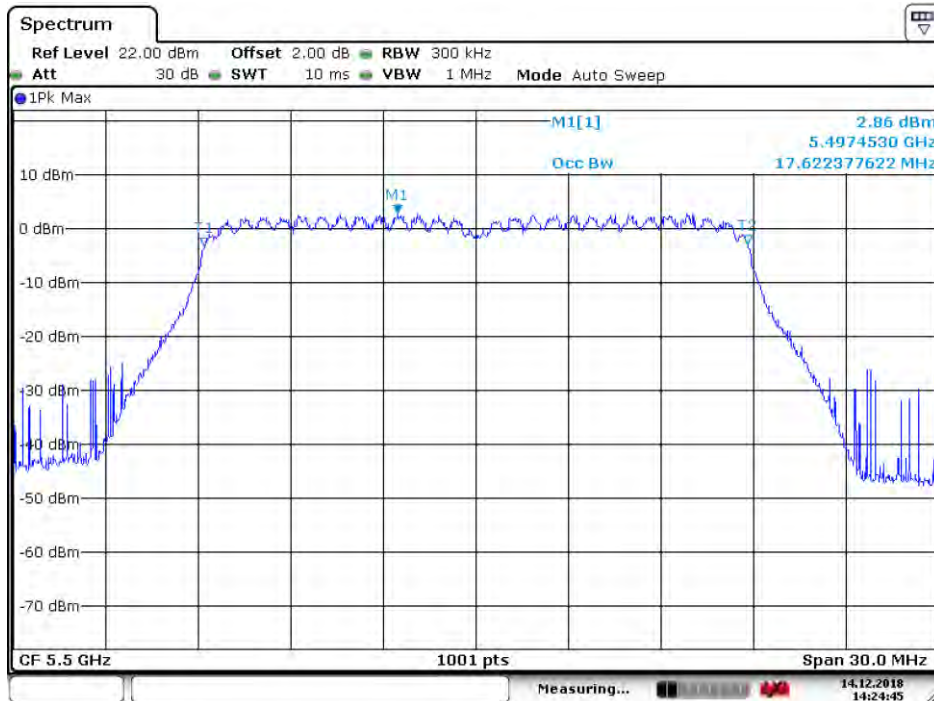


Date: 14.DEC.2018 14:24:28

4.5.2.157 11N20\_MIMO\_100 ANT 2

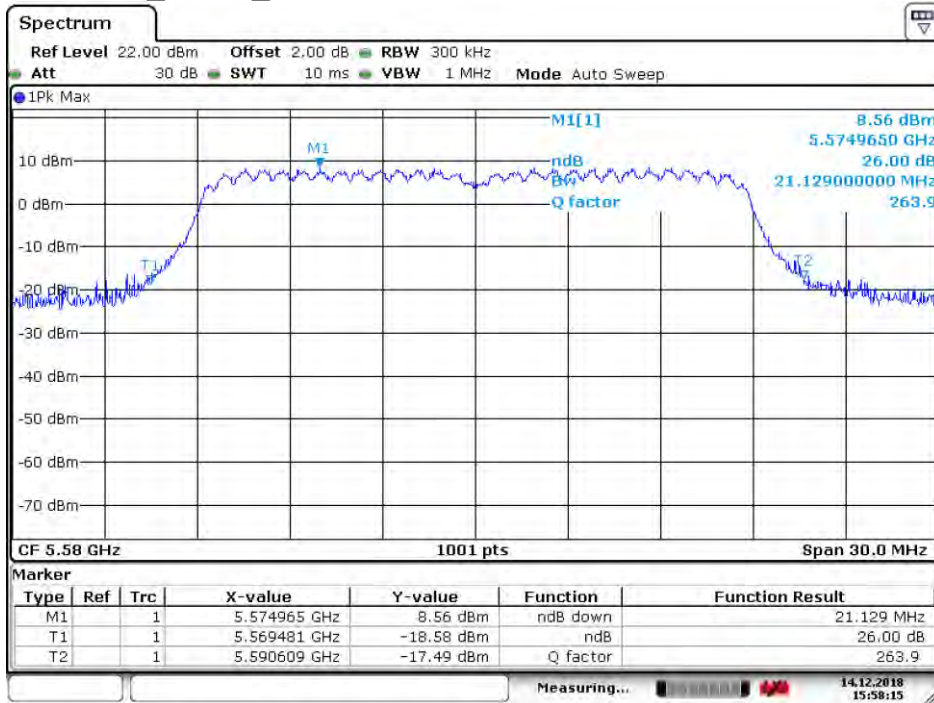


Date: 14.DEC.2018 15:58:48

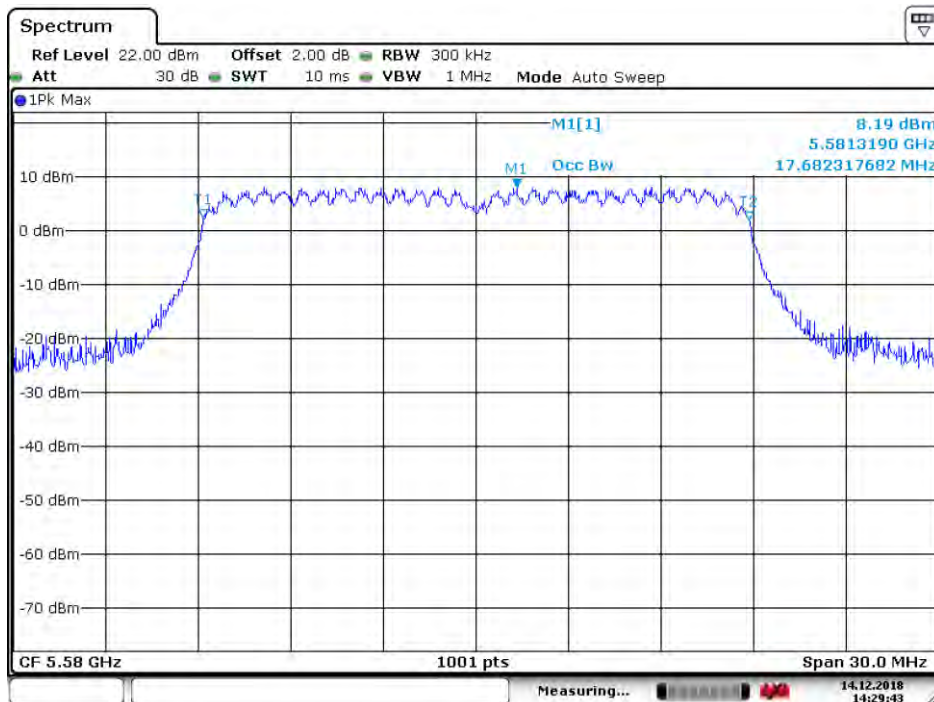


Date: 14.DEC.2018 14:24:46

4.5.2.158 11N20\_MIMO\_116 ANT 2

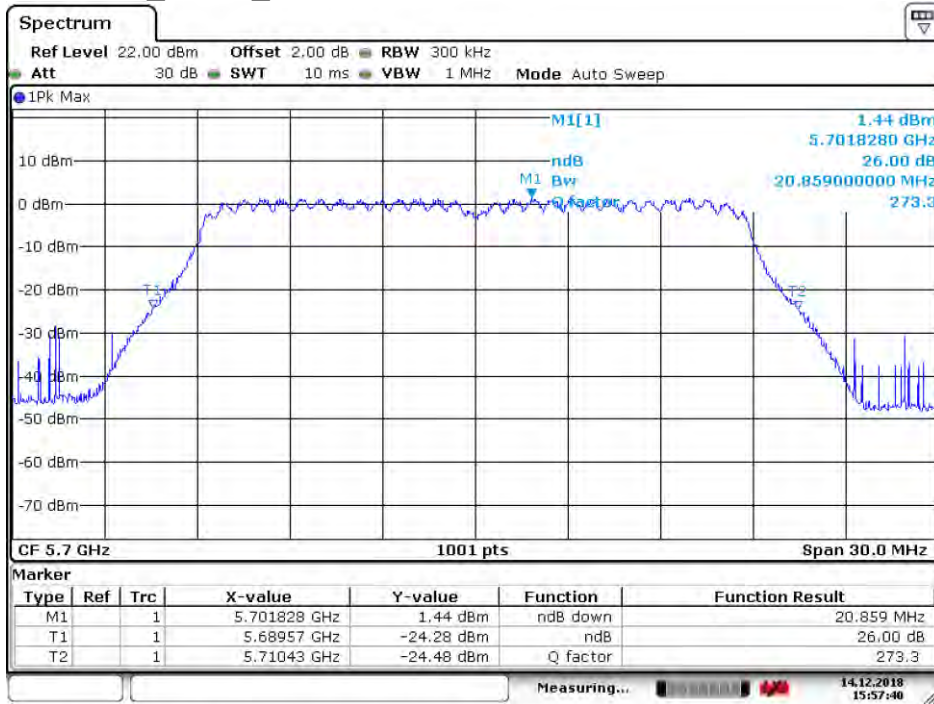


Date: 14.DEC.2018 15:58:15

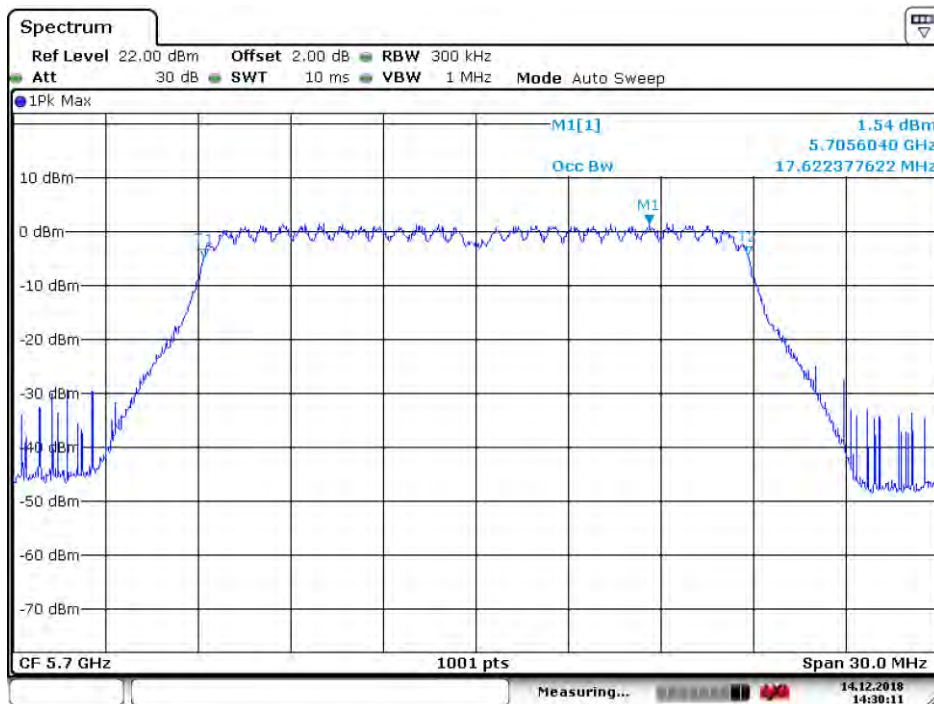


Date: 14.DEC.2018 14:29:43

4.5.2.159 11N20\_MIMO\_140 ANT 2

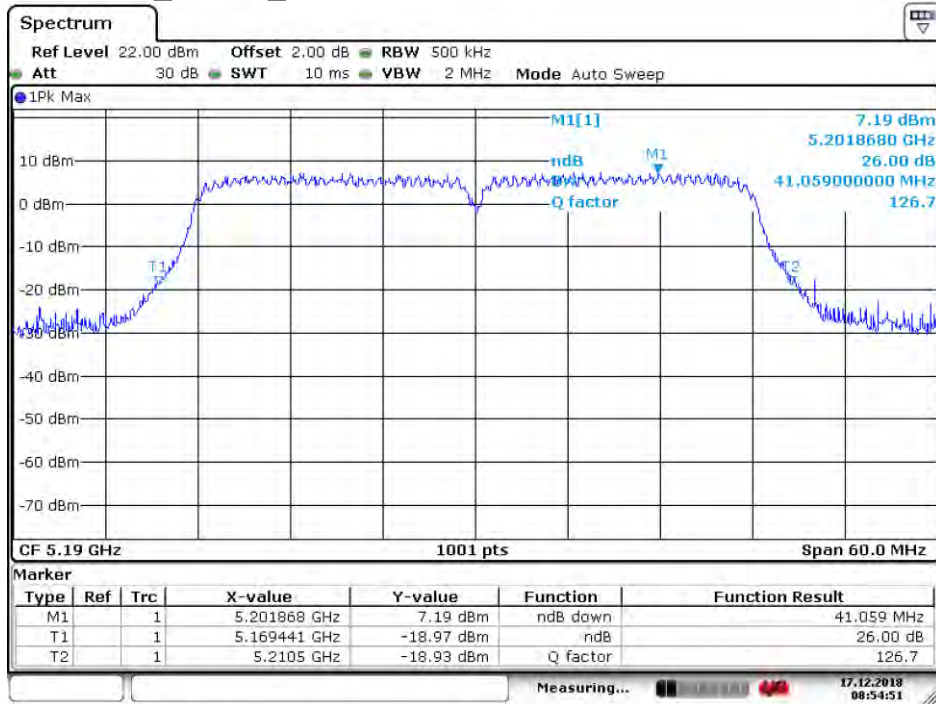


Date: 14.DEC.2018 15:57:40

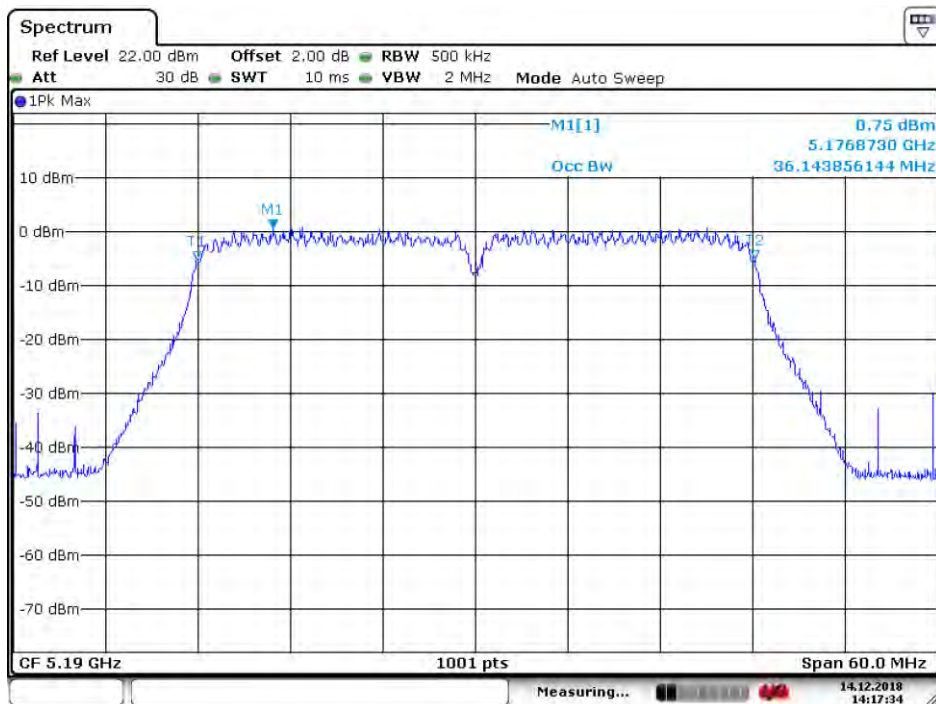


Date: 14.DEC.2018 14:30:11

4.5.2.160 11N40\_MIMO\_38 ANT 2

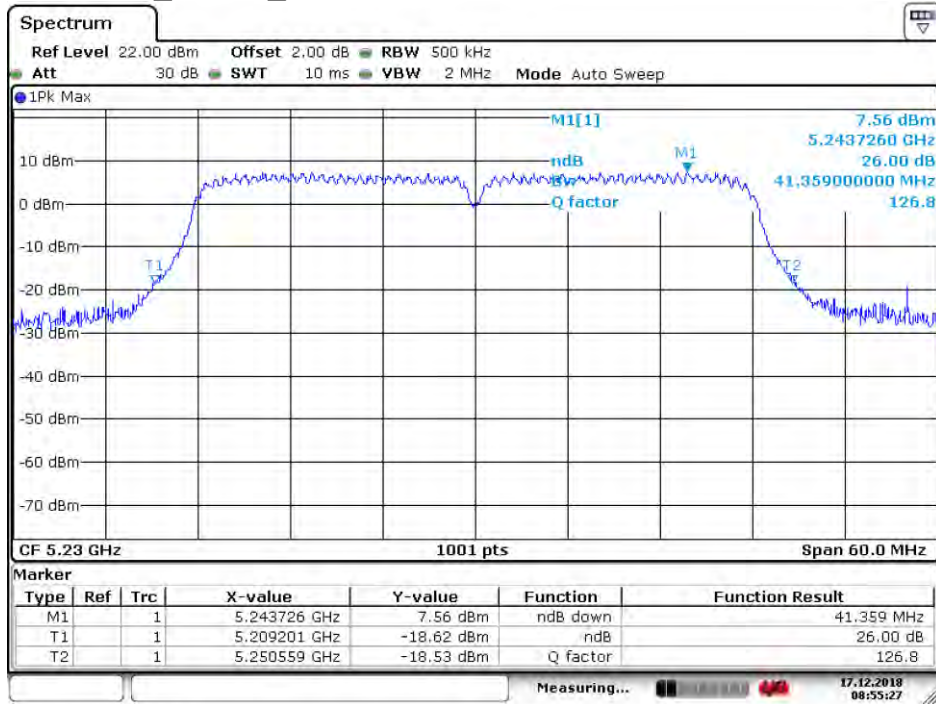


Date: 17 DEC 2018 08:54:51

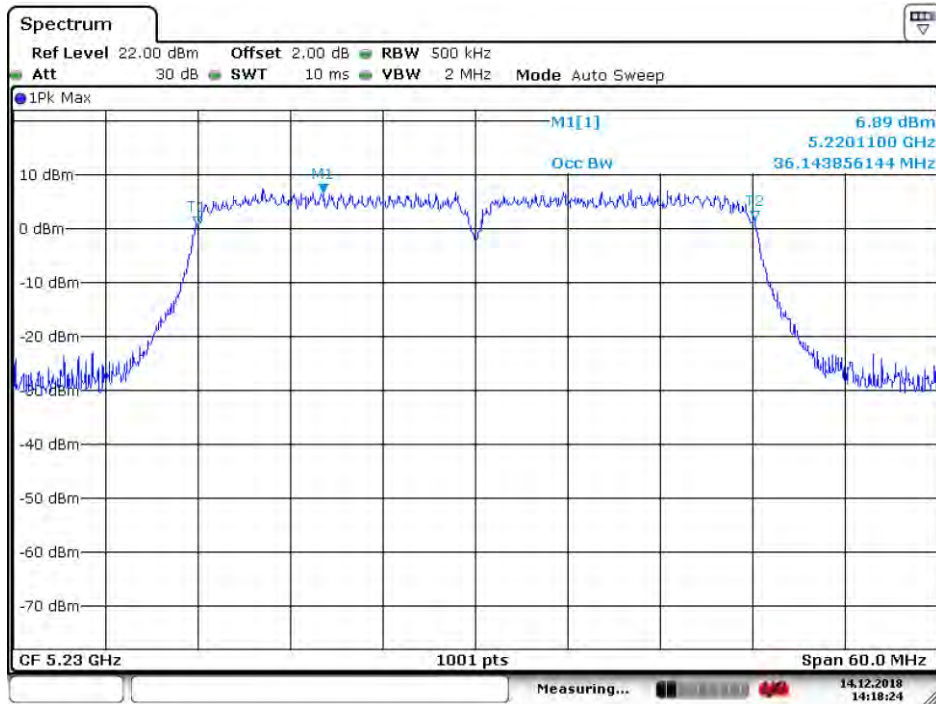


Date: 14 DEC 2018 14:17:34

**4.5.2.161 11N40\_MIMO\_46 ANT 2**



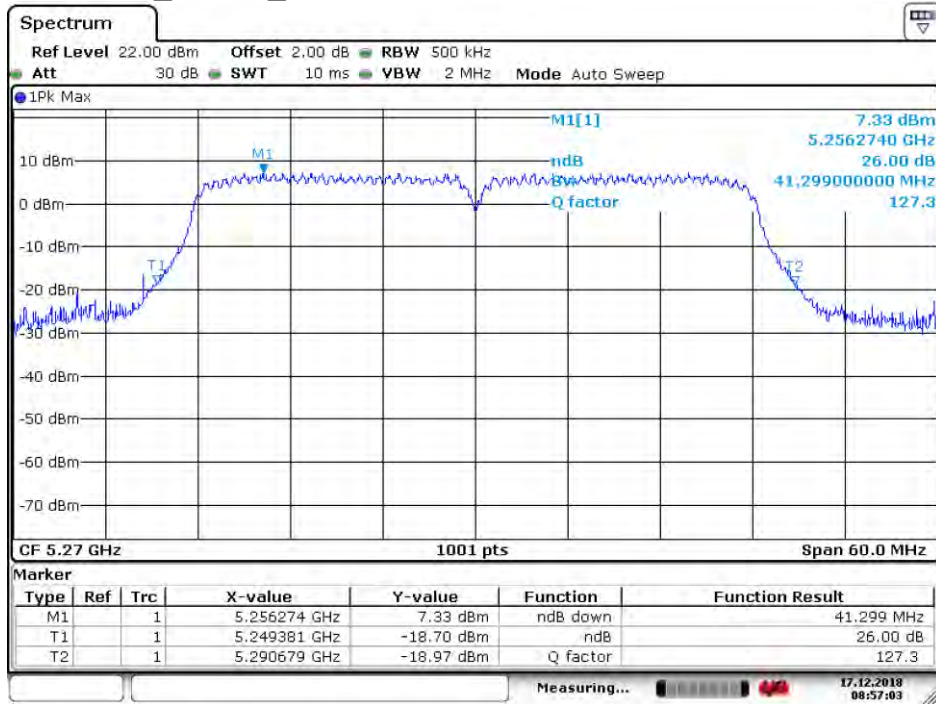
Date: 17 DEC 2018 08:55:28



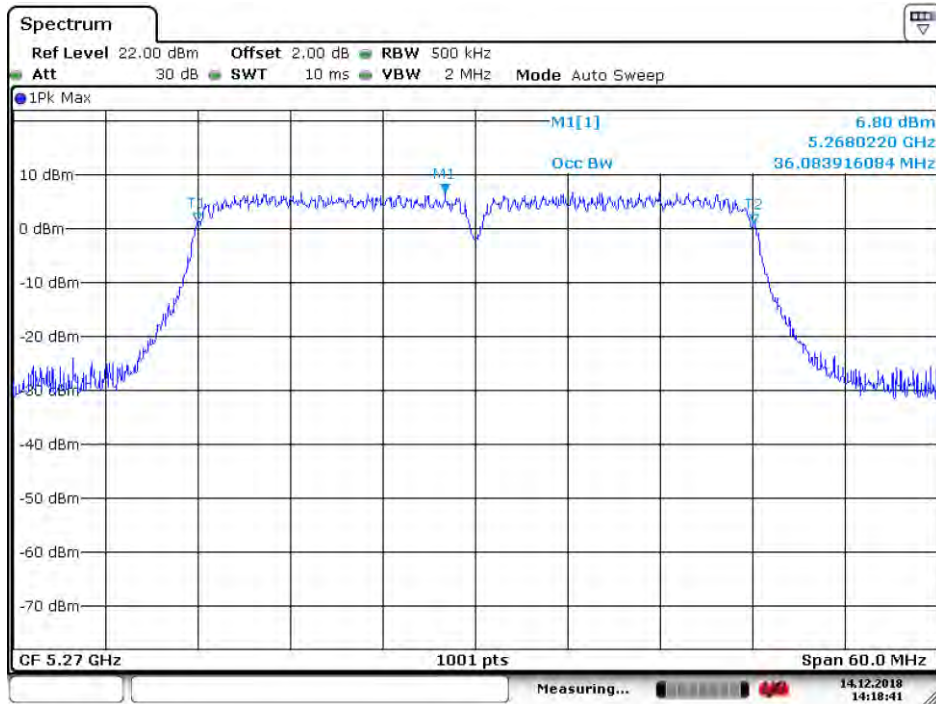
Date: 14 DEC 2018 14:18:24



4.5.2.162 11N40\_MIMO\_54 ANT 2

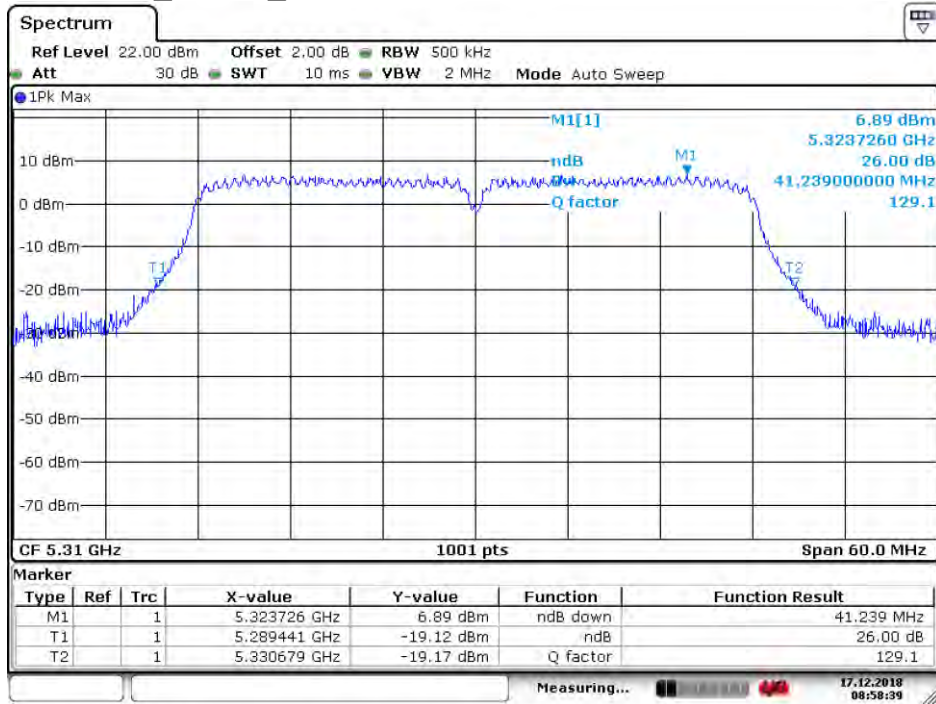


Date: 17 DEC 2018 08:57:03

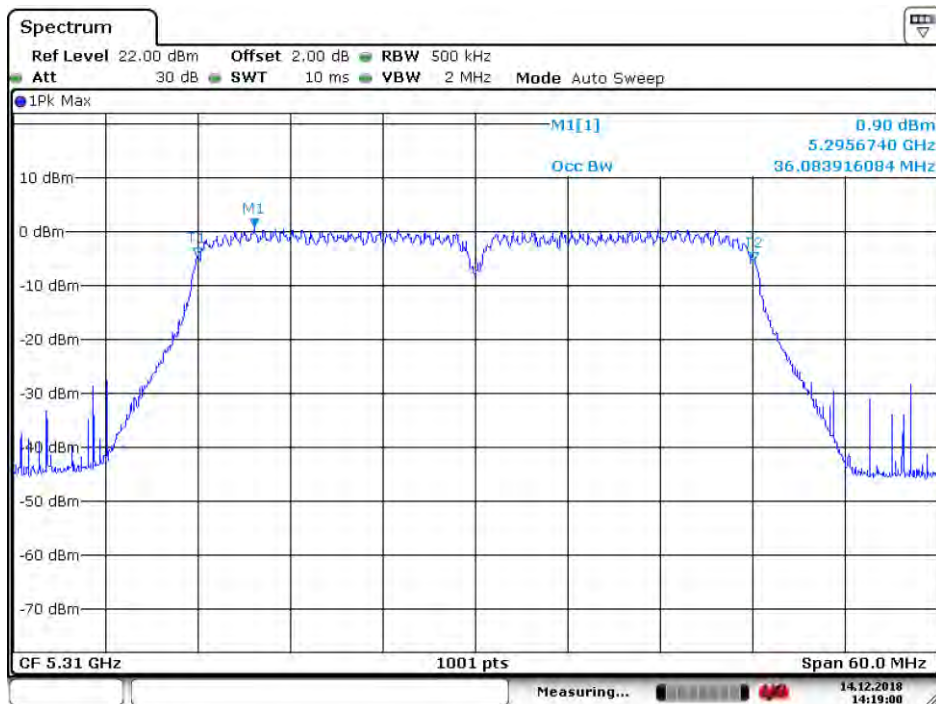


Date: 14 DEC 2018 14:18:42

4.5.2.163 11N40\_MIMO\_62 ANT 2

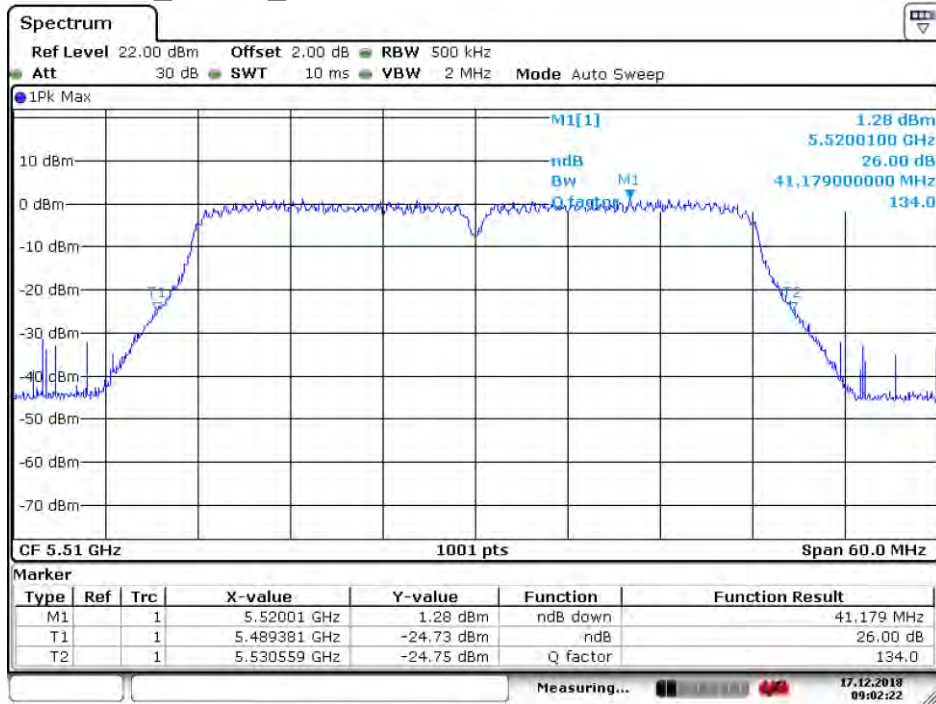


Date: 17 DEC 2018 08:58:39

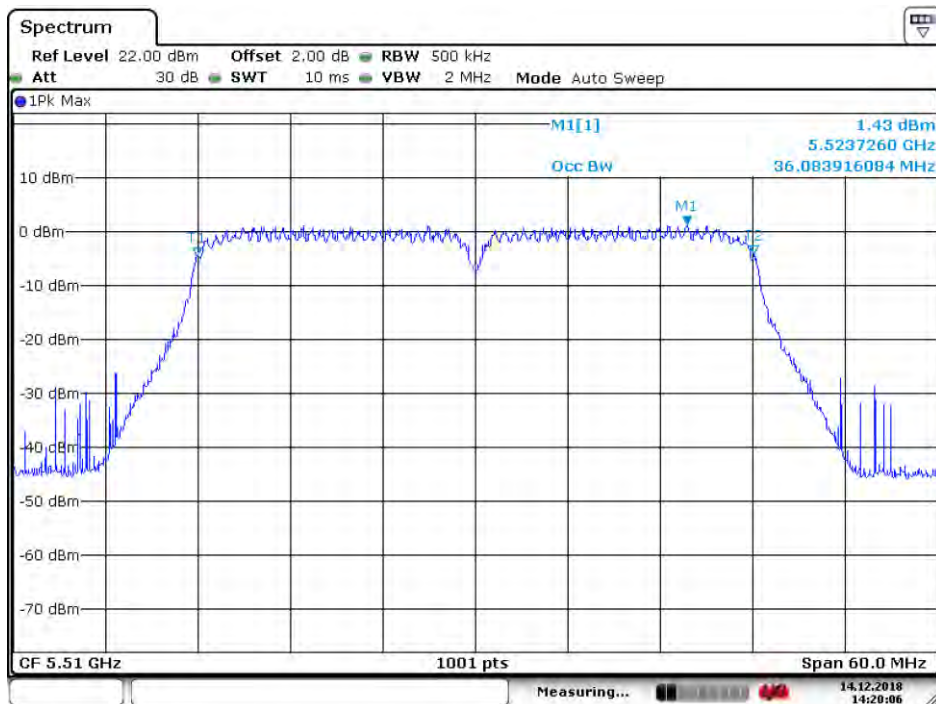


Date: 14 DEC 2018 14:19:00

4.5.2.164 11N40\_MIMO\_102 ANT 2

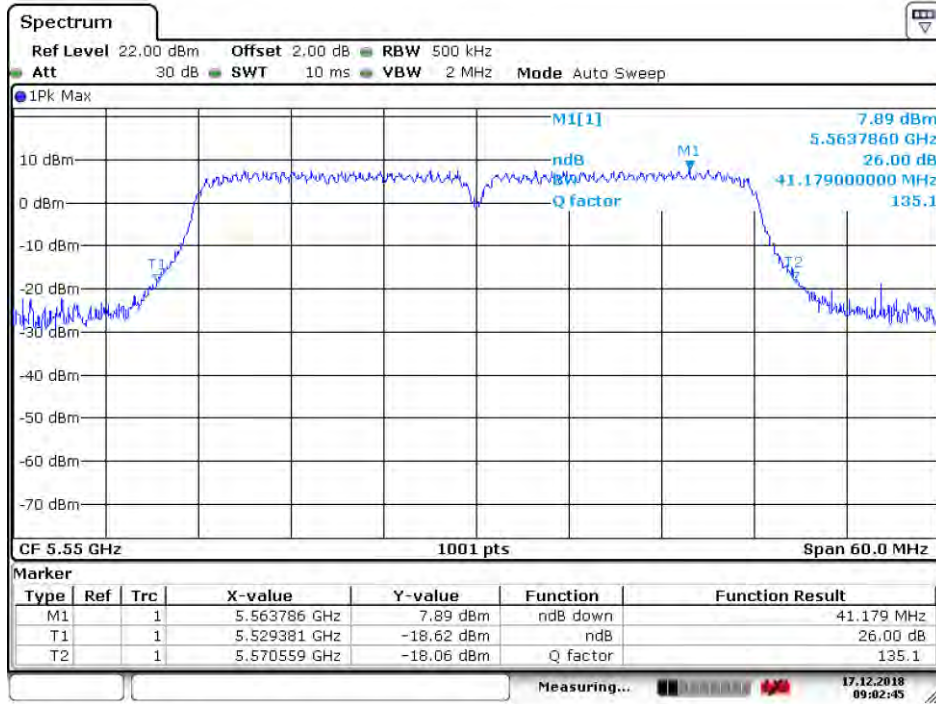


Date: 17 DEC 2018 09:02:22

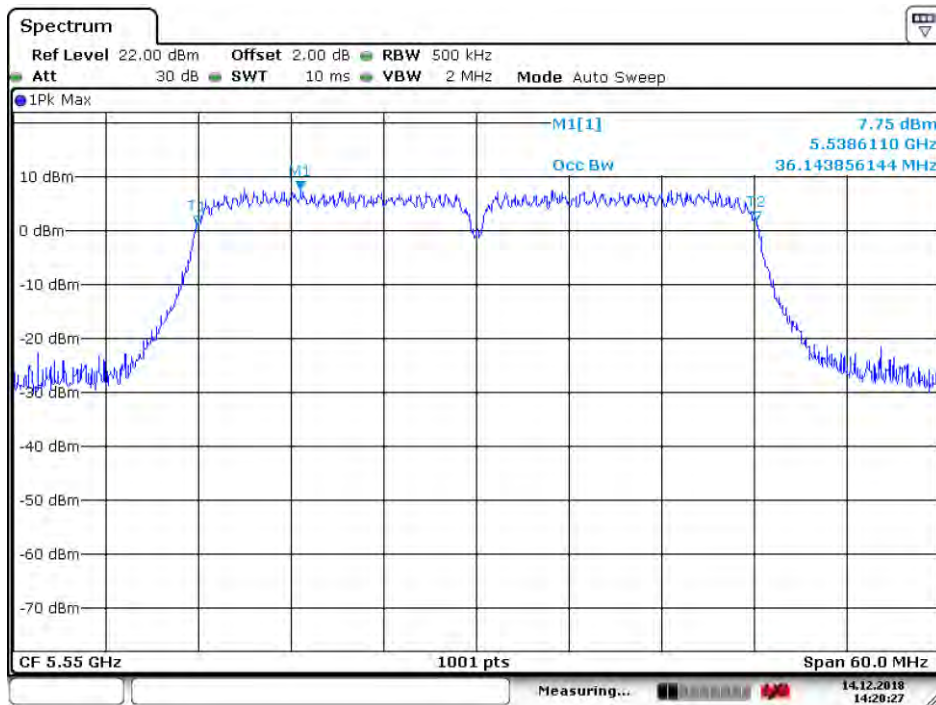


Date: 14 DEC 2018 14:20:07

**4.5.2.165 11N40\_MIMO\_110 ANT 2**

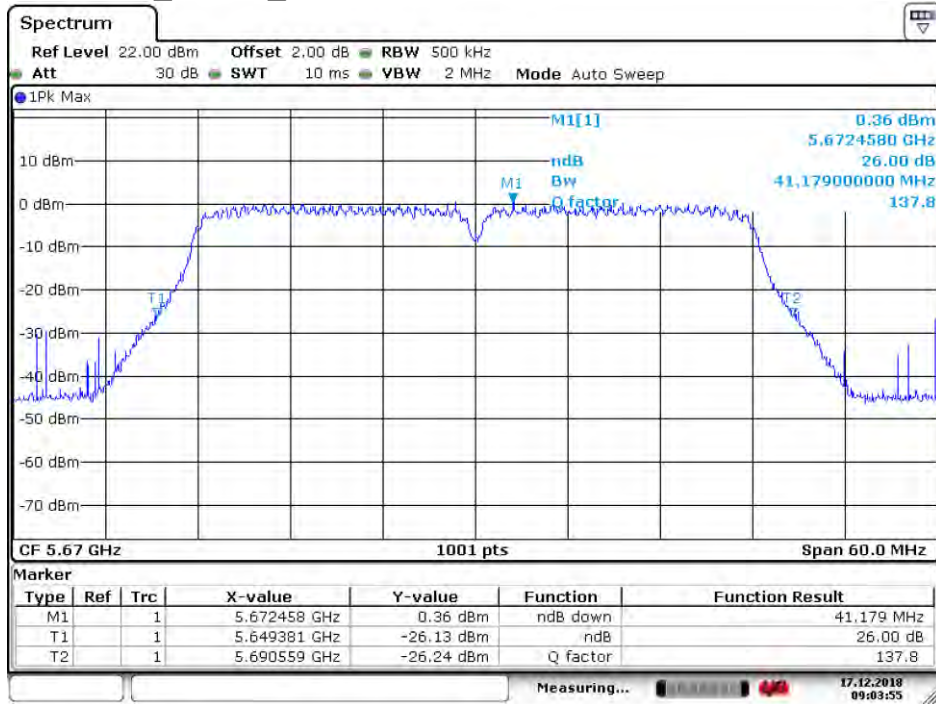


Date: 17.DEC.2018 09:02:46

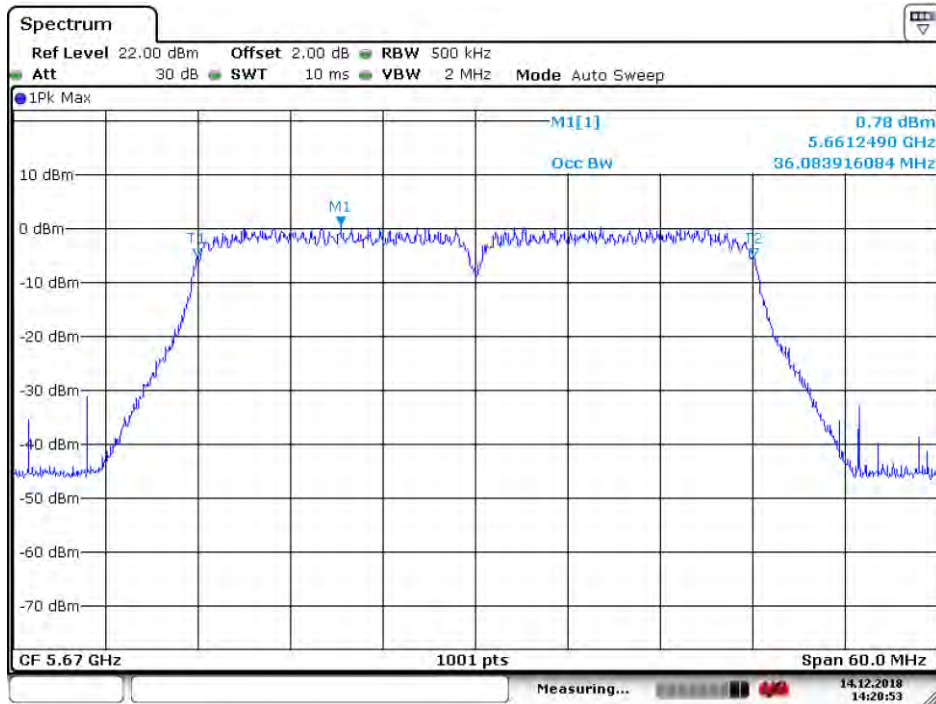


Date: 14.DEC.2018 14:20:27

4.5.2.166 11N40\_MIMO\_134 ANT 2

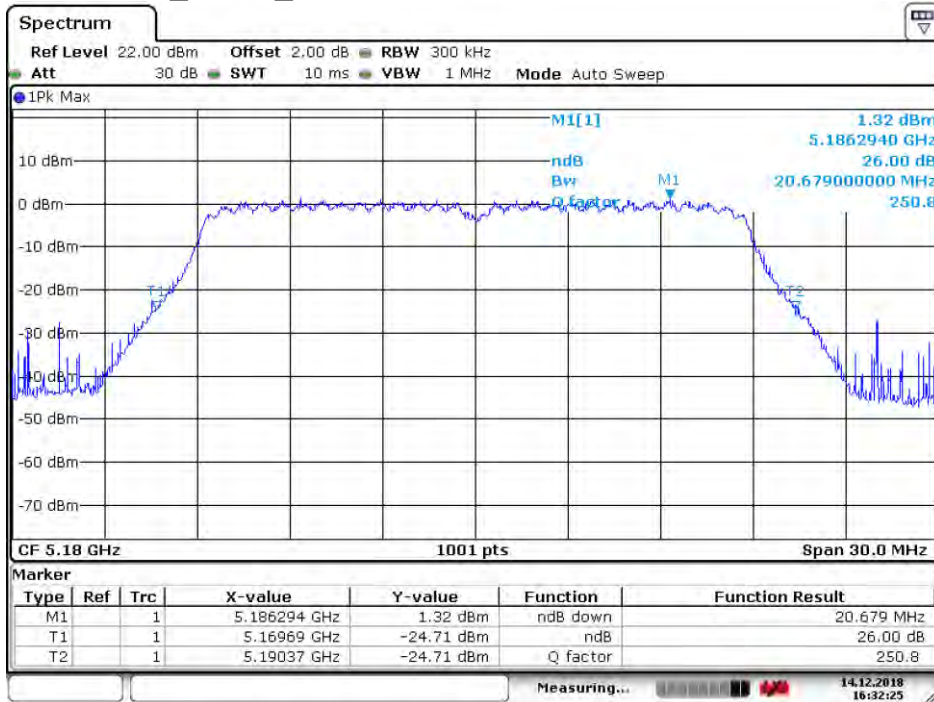


Date: 17 DEC 2018 09:03:56

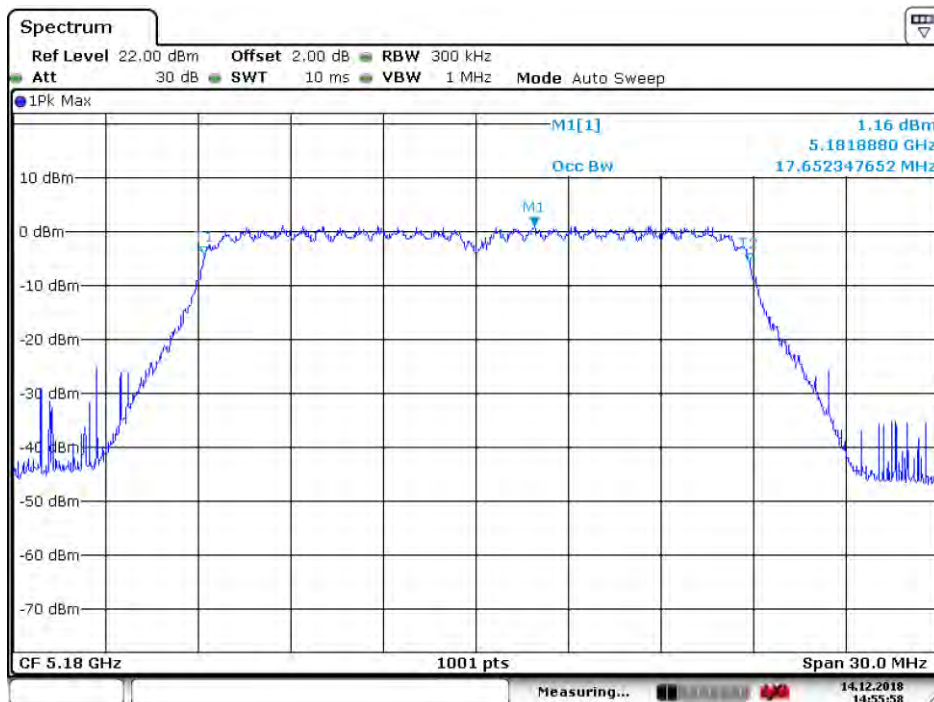


Date: 14 DEC 2018 14:20:53

4.5.2.167 11AC20\_MIMO\_36 ANT 2

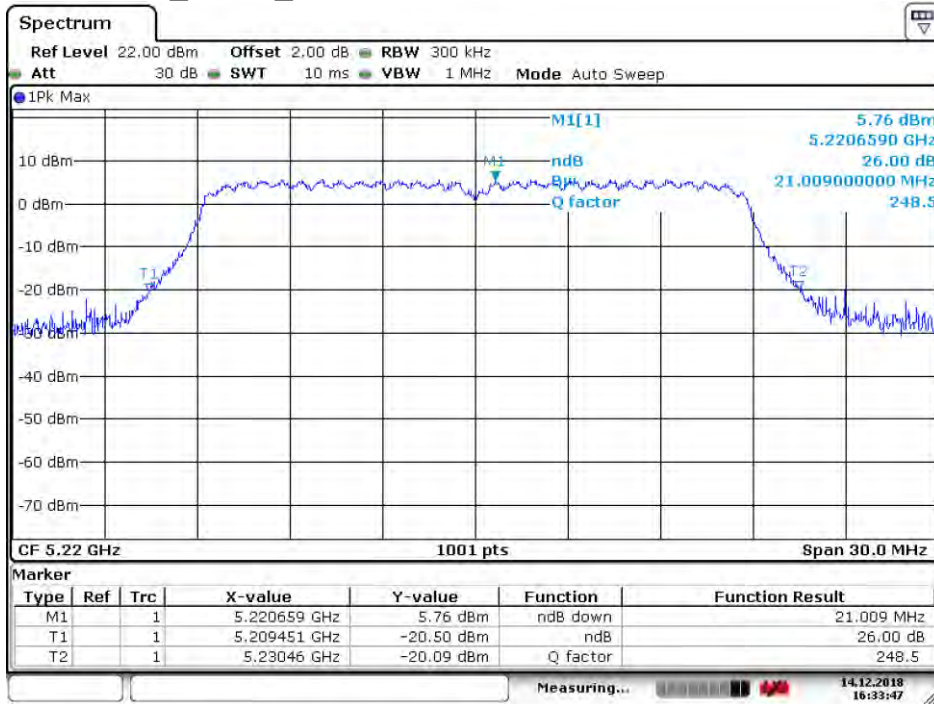


Date: 14.DEC.2018 16:32:25

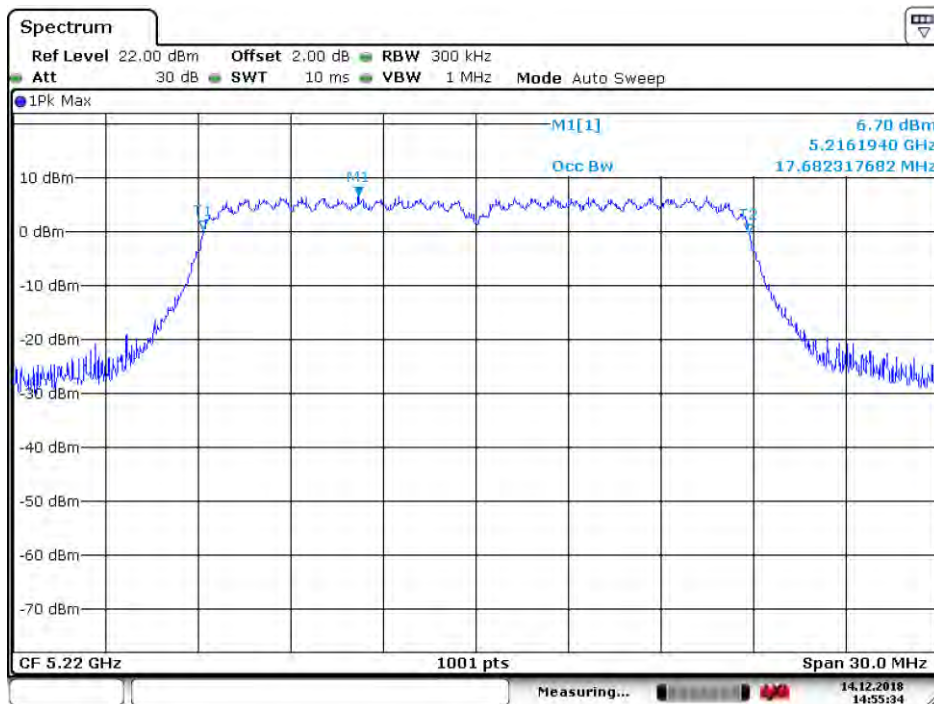


Date: 14.DEC.2018 14:55:59

4.5.2.168 11AC20\_MIMO\_44 ANT 2

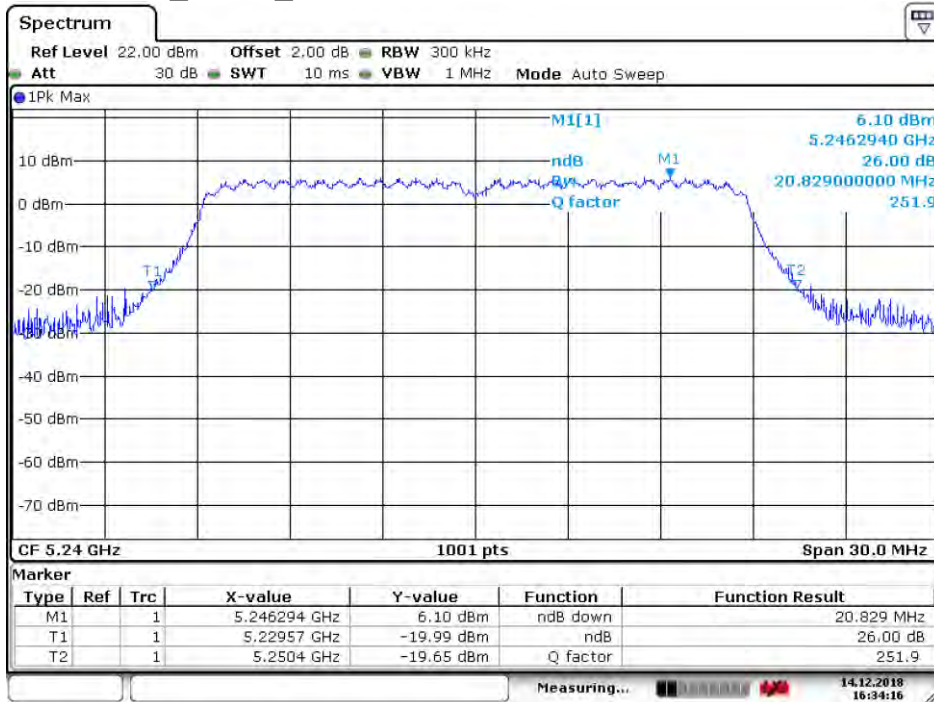


Date: 14.DEC.2018 16:33:48

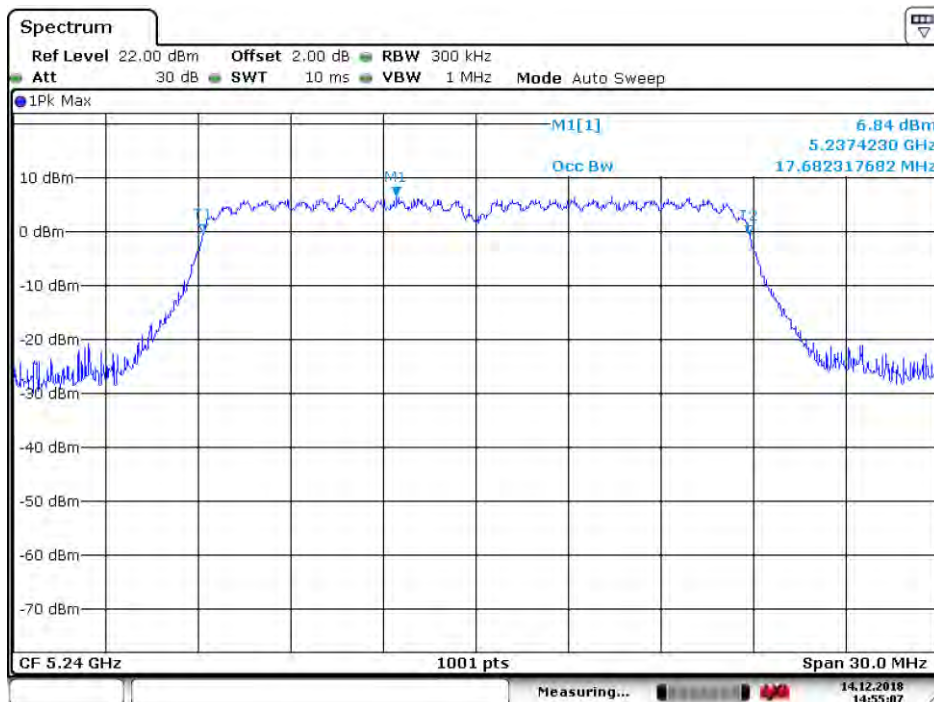


Date: 14.DEC.2018 14:55:35

4.5.2.169 11AC20\_MIMO\_48 ANT 2



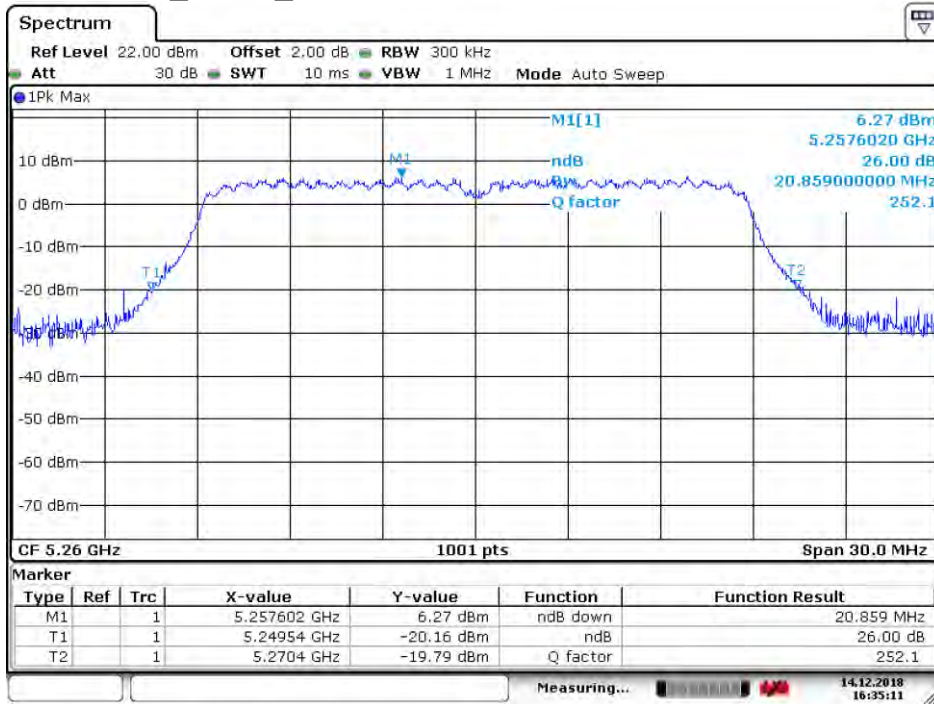
Date: 14.DEC.2018 16:34:16



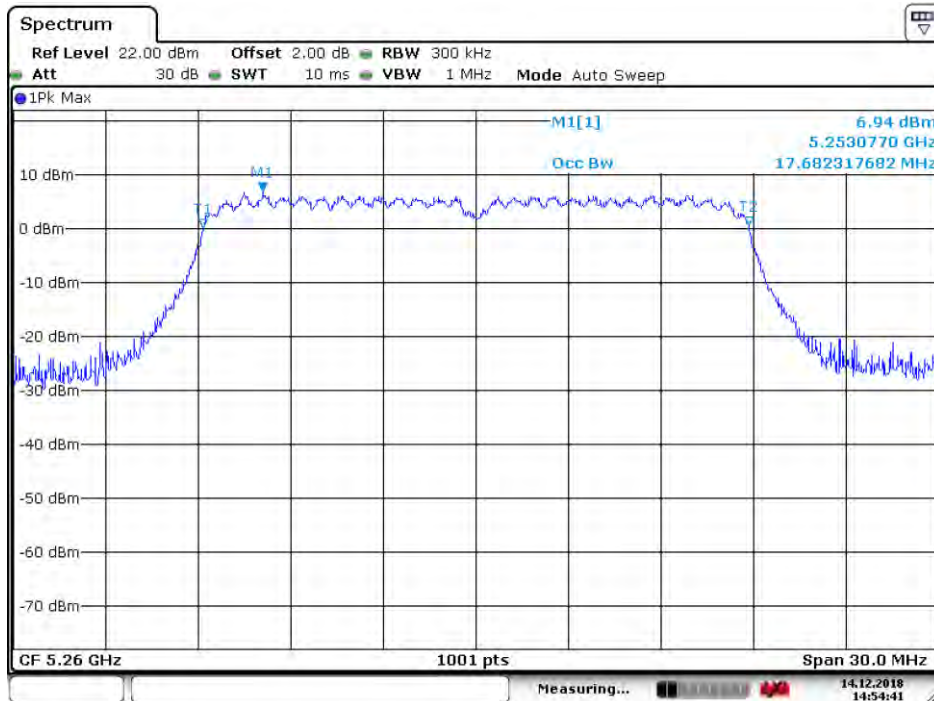
Date: 14.DEC.2018 14:55:08



4.5.2.170 11AC20\_MIMO\_52 ANT 2

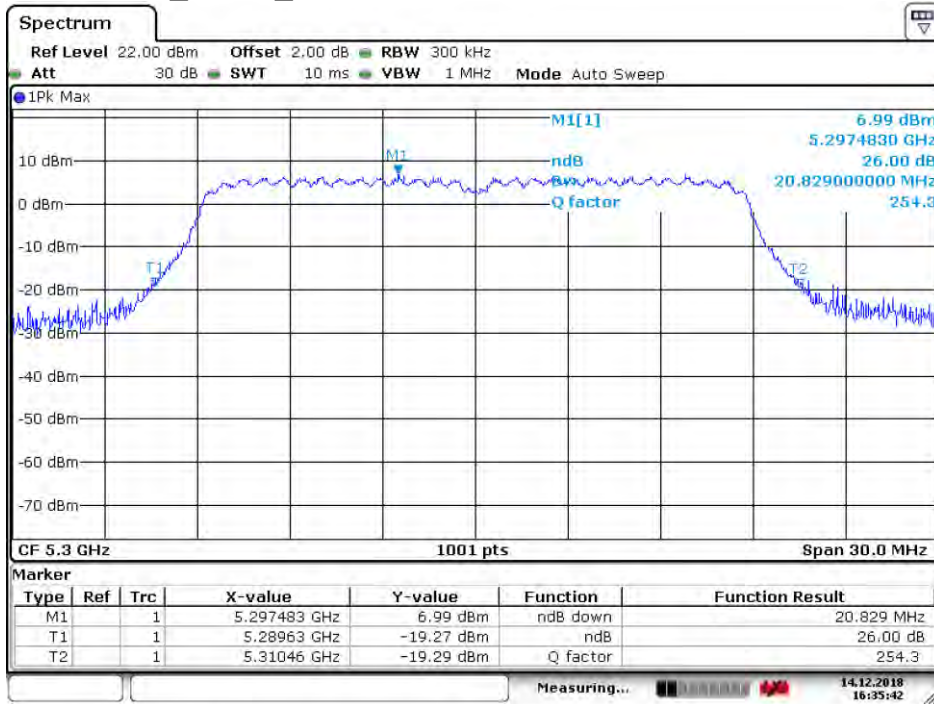


Date: 14.DEC.2018 16:35:12

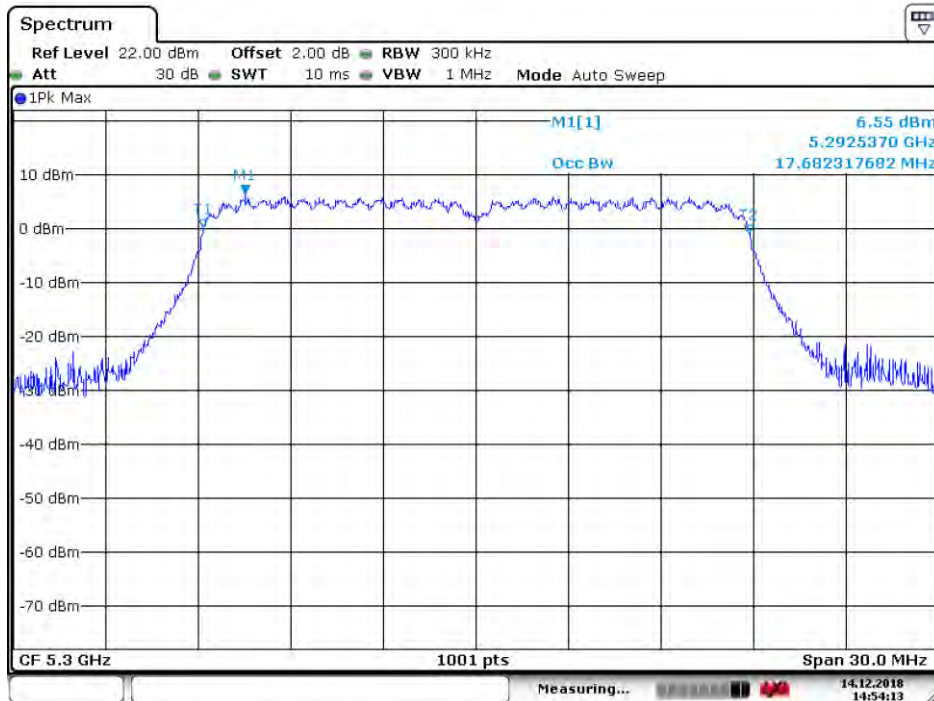


Date: 14.DEC.2018 14:54:42

4.5.2.171 11AC20\_MIMO\_60 ANT 2

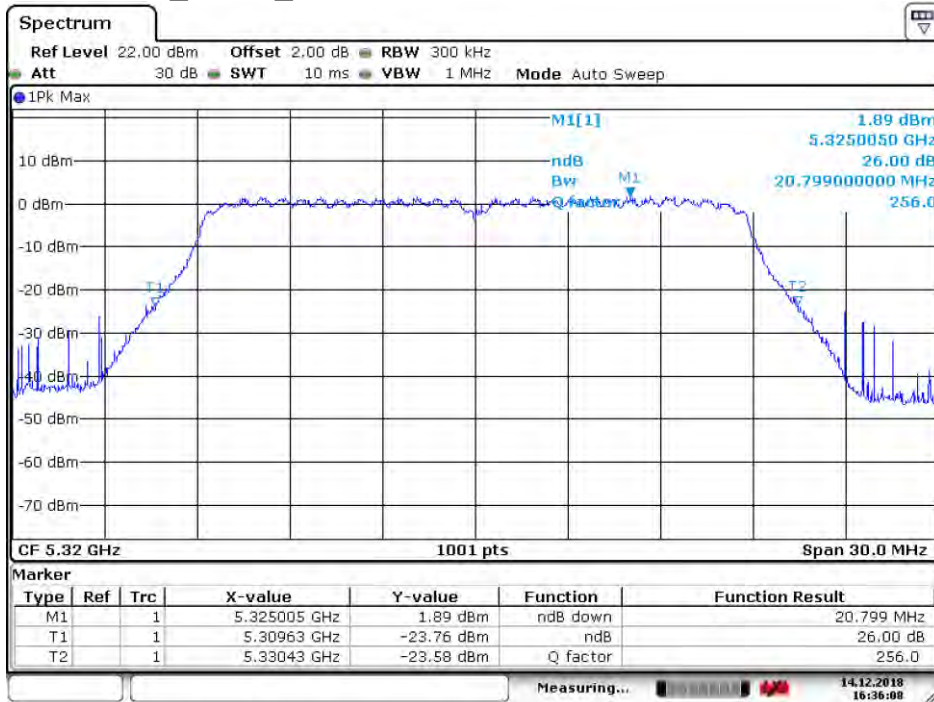


Date: 14.DEC.2018 16:35:42

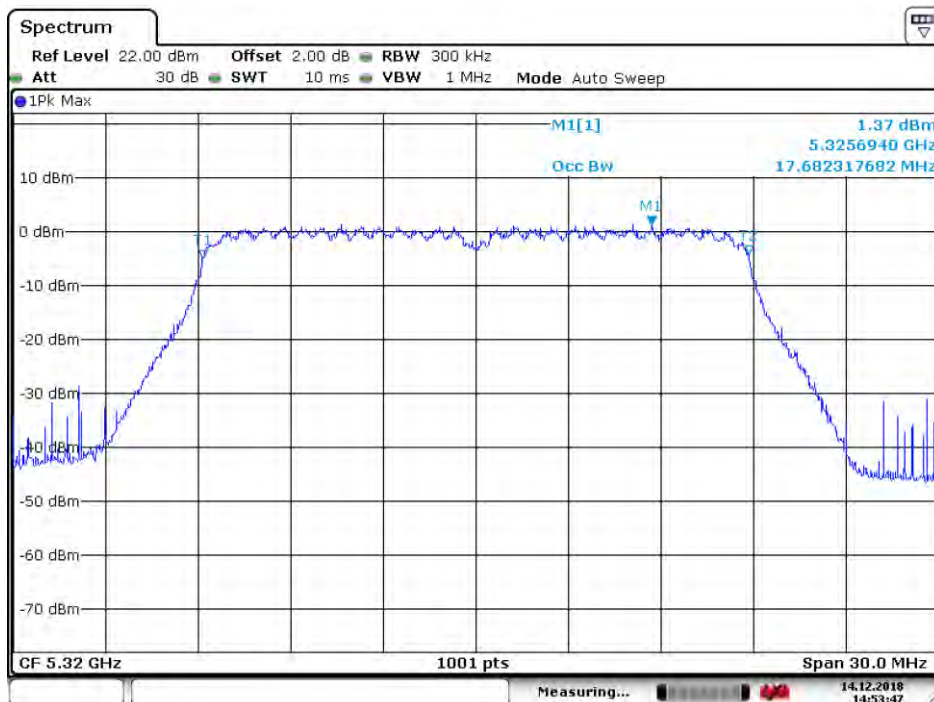


Date: 14.DEC.2018 14:54:13

4.5.2.172 11AC20\_MIMO\_64 ANT 2

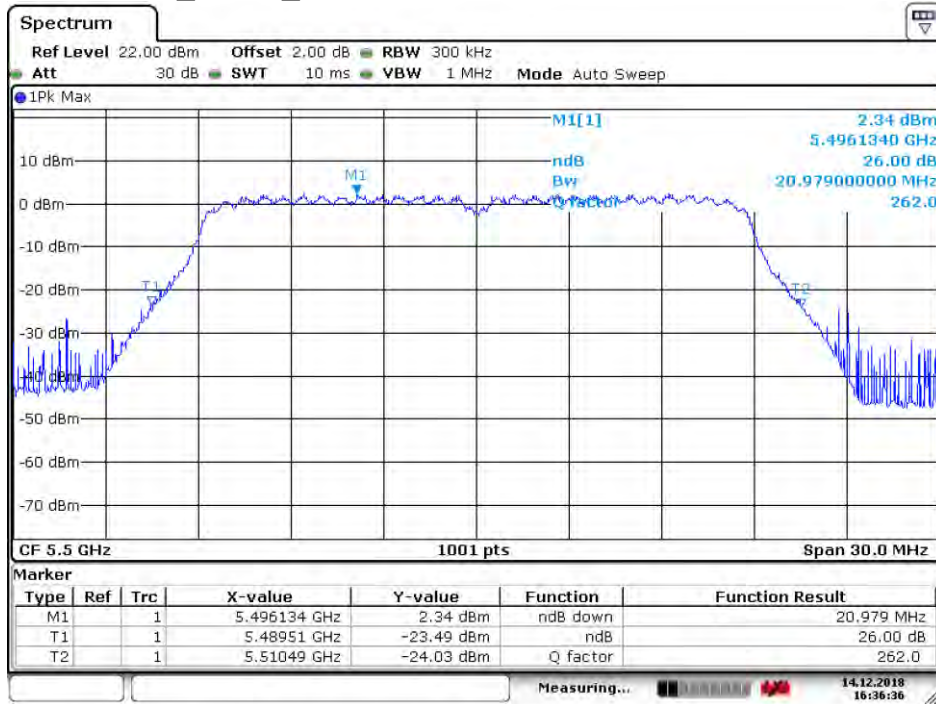


Date: 14.DEC.2018 16:36:08

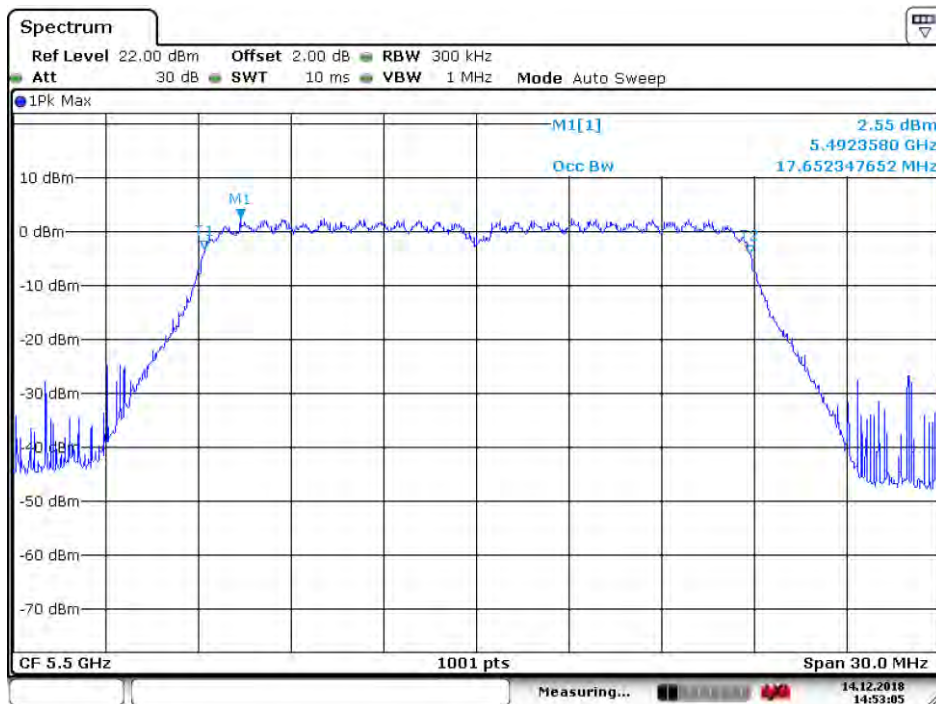


Date: 14.DEC.2018 14:53:48

4.5.2.173 11AC20\_MIMO\_100 ANT 2

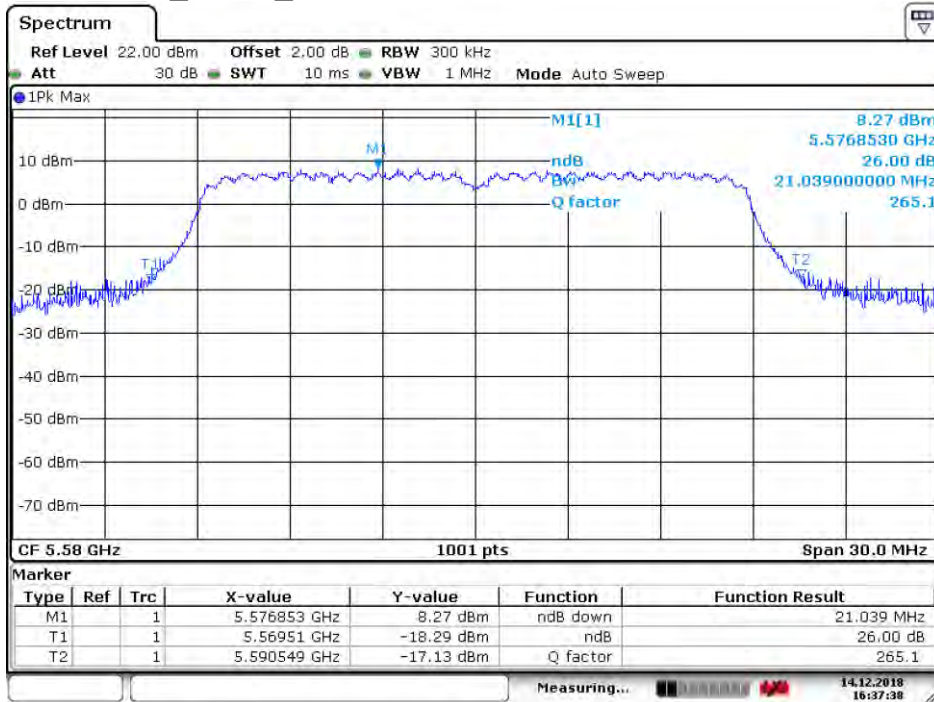


Date: 14 DEC. 2018 16:36:36

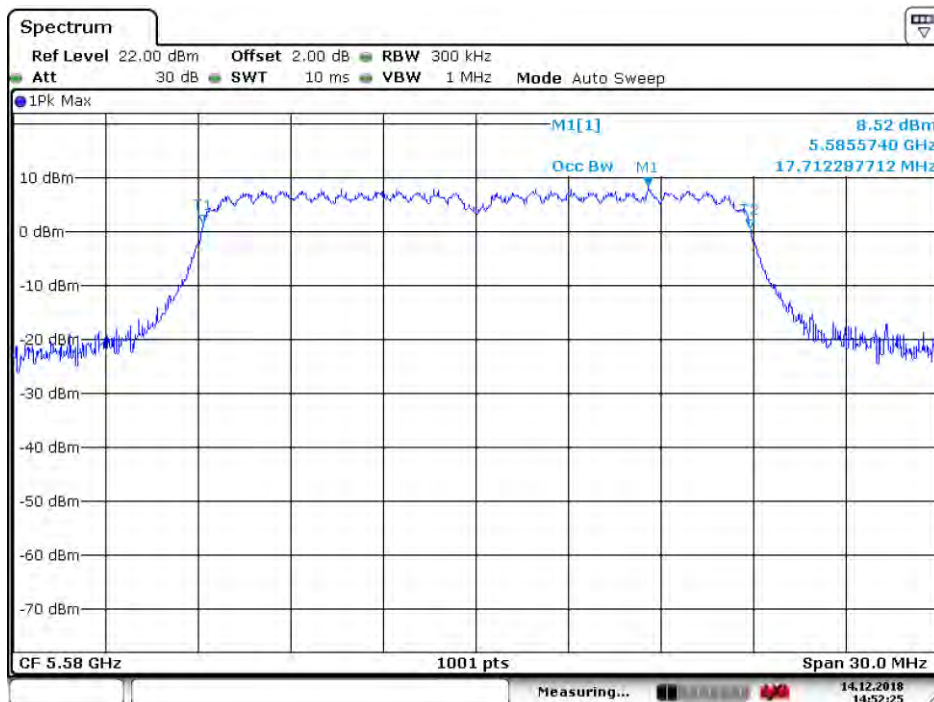


Date: 14 DEC. 2018 14:53:06

4.5.2.174 11AC20\_MIMO\_116 ANT 2

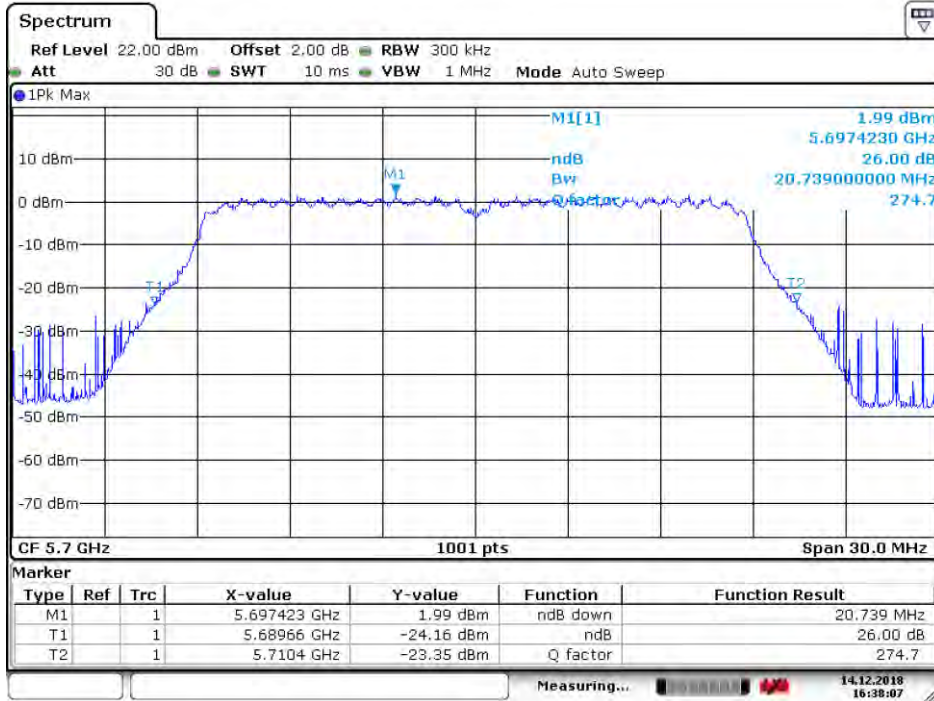


Date: 14.DEC.2018 16:37:39

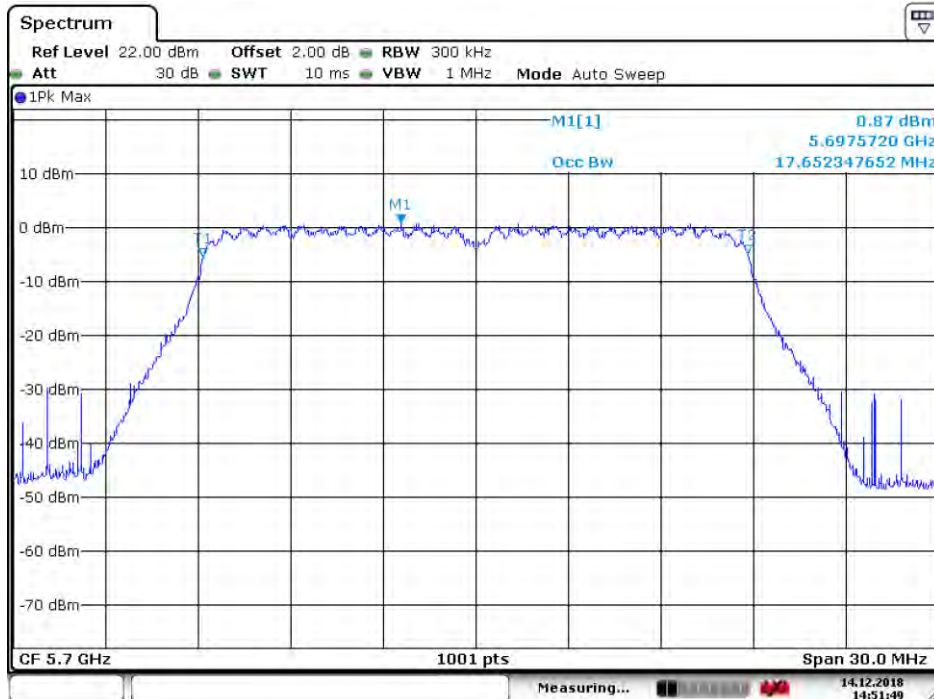


Date: 14.DEC.2018 14:52:26

4.5.2.175 11AC20\_MIMO\_140 ANT 2

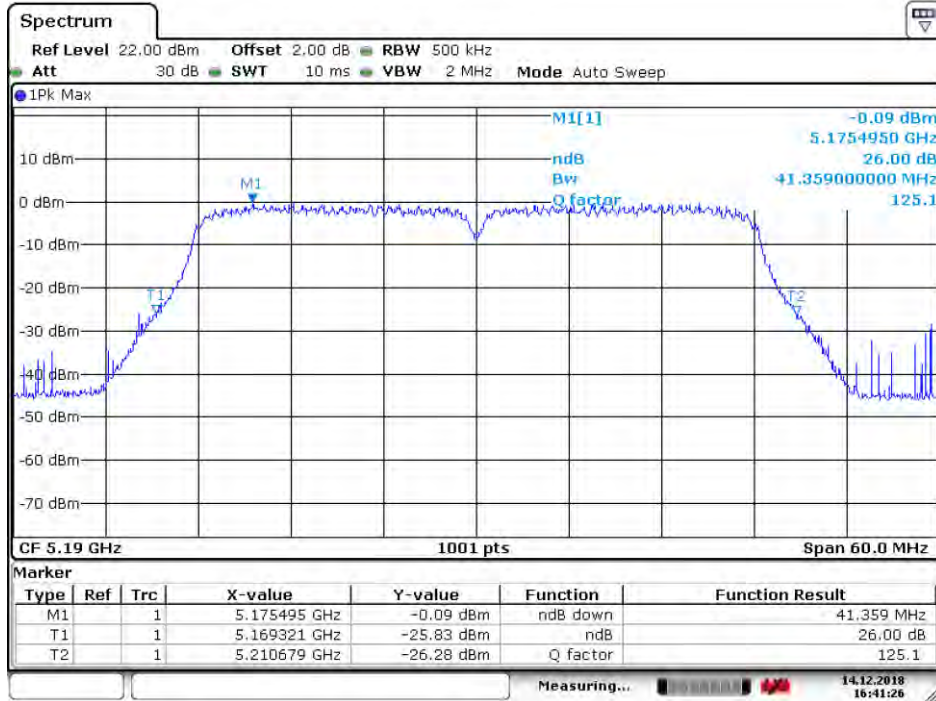


Date: 14.DEC.2018 16:38:08

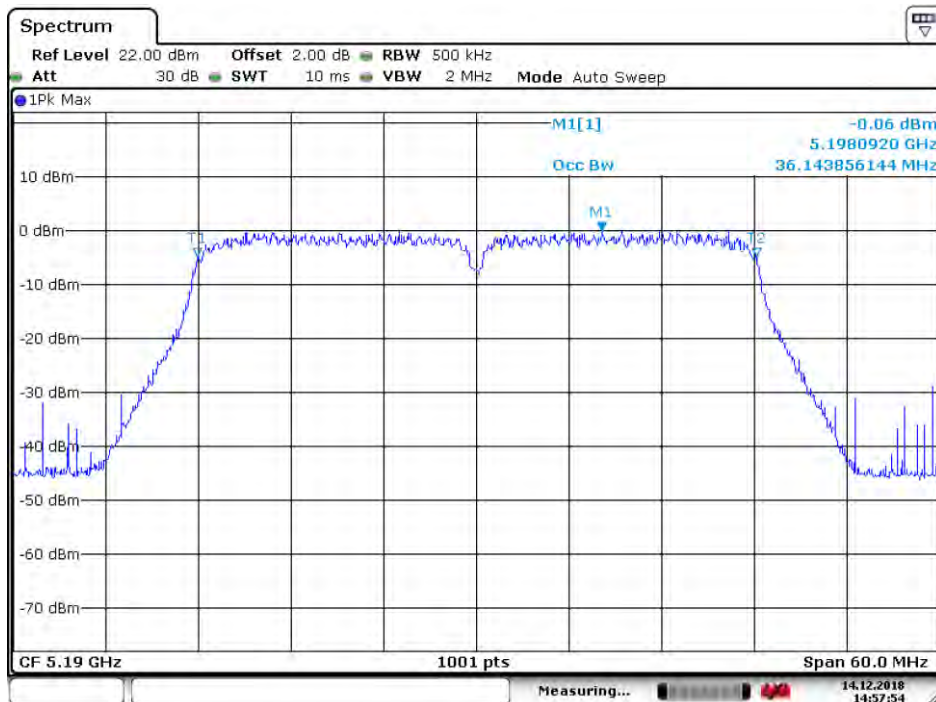


Date: 14.DEC.2018 14:51:49

4.5.2.176 11AC40\_MIMO\_38 ANT 2

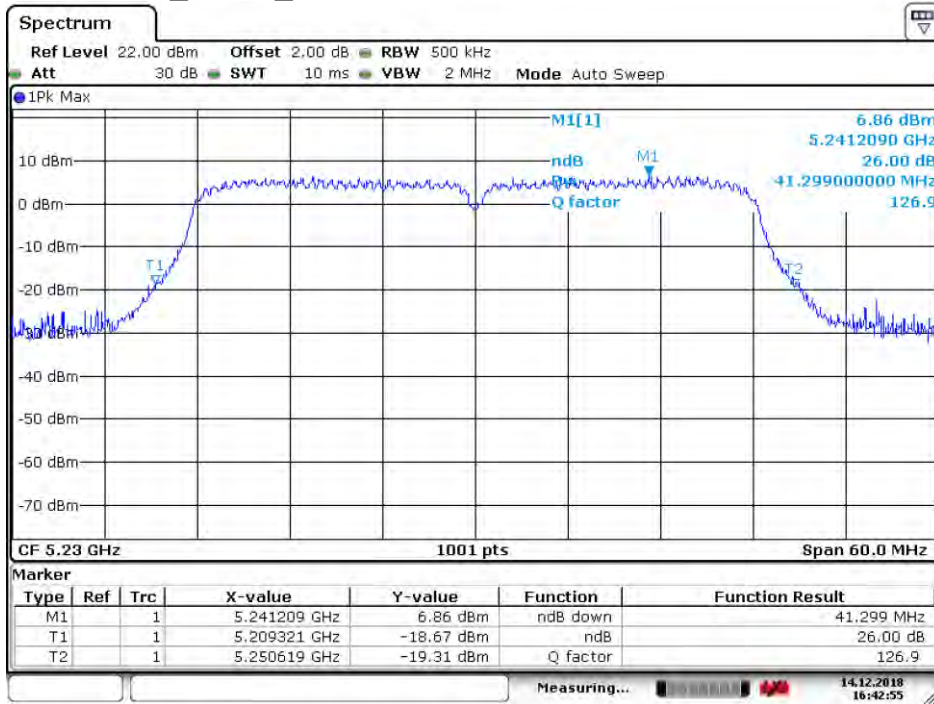


Date: 14.DEC.2018 16:41:26

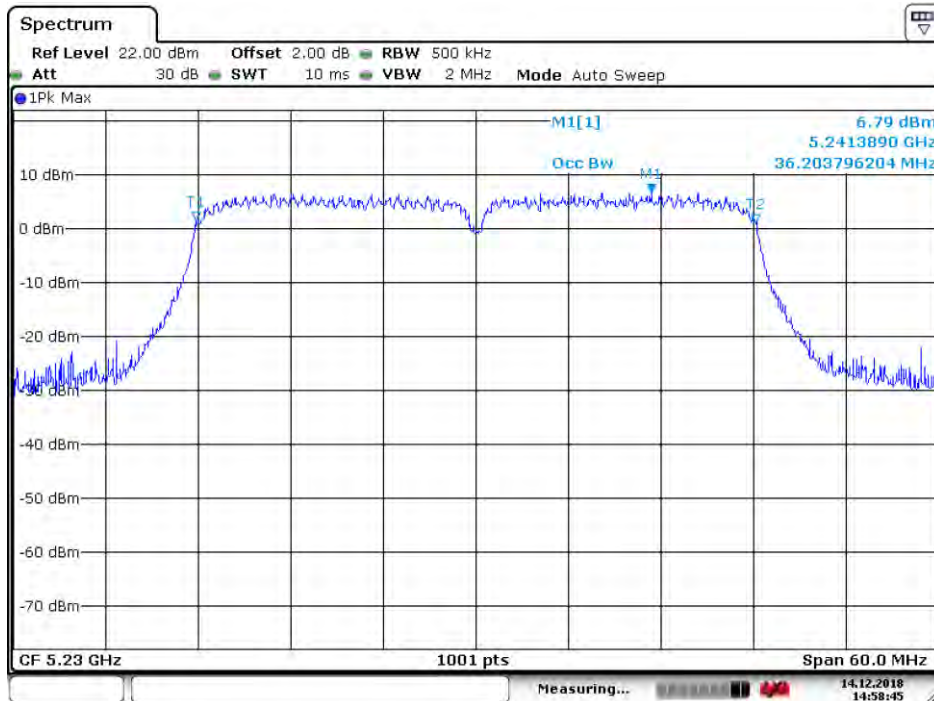


Date: 14.DEC.2018 14:57:54

4.5.2.177 11AC40\_MIMO\_46 ANT 2



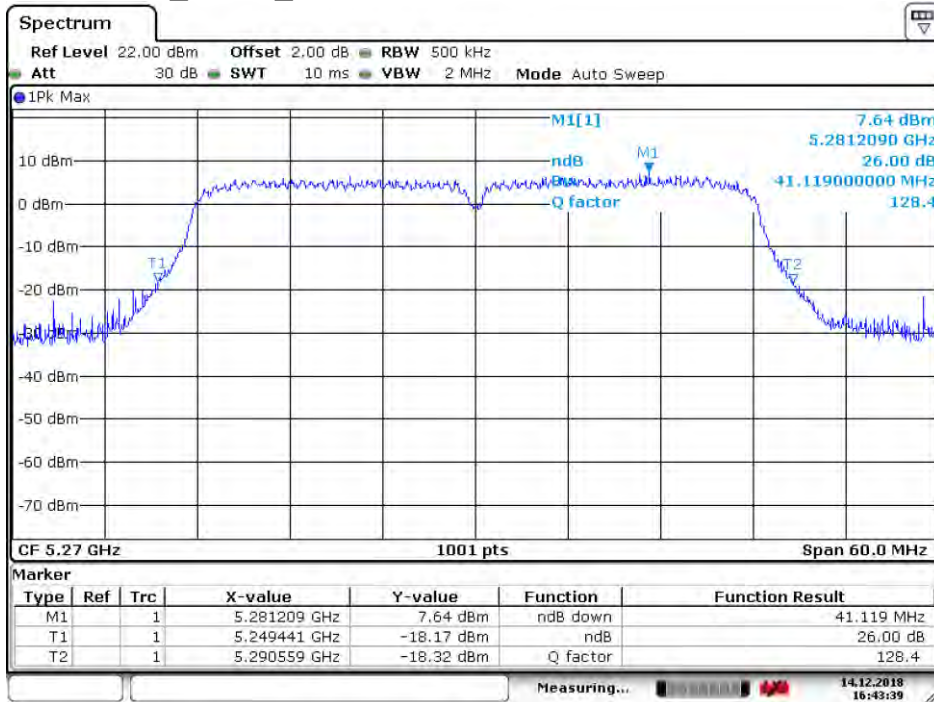
Date: 14.DEC.2018 16:42:56



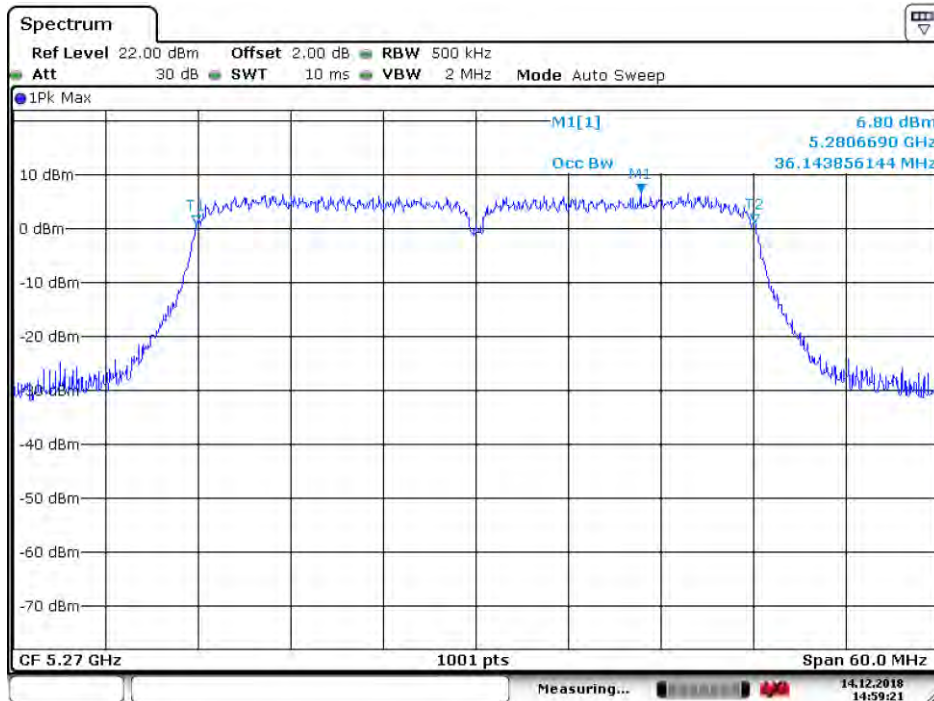
Date: 14.DEC.2018 14:58:46



4.5.2.178 11AC40\_MIMO\_54 ANT 2

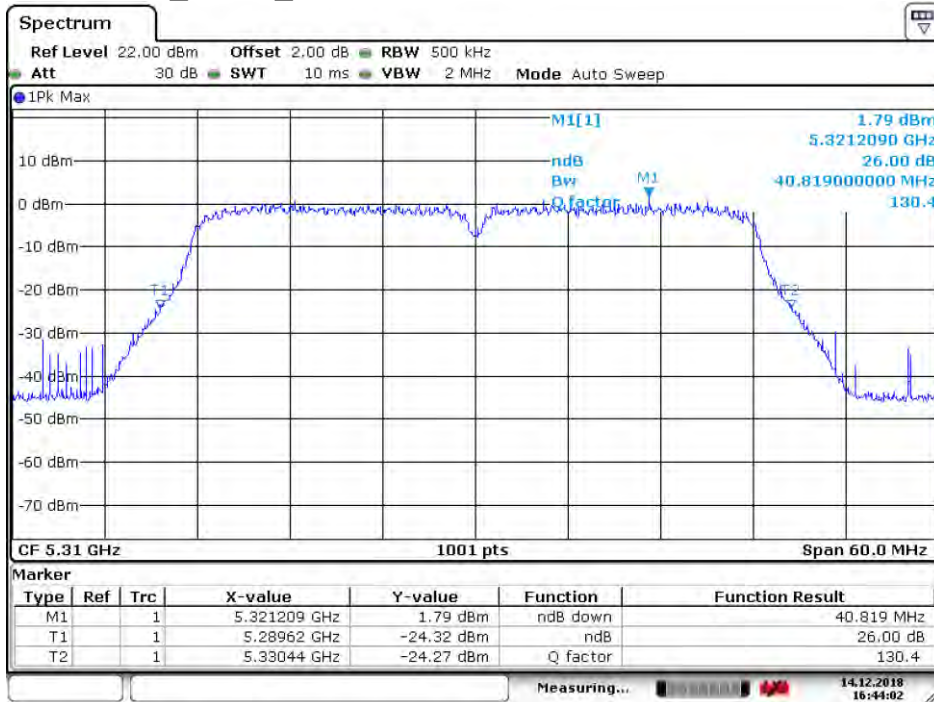


Date: 14.DEC.2018 16:43:39

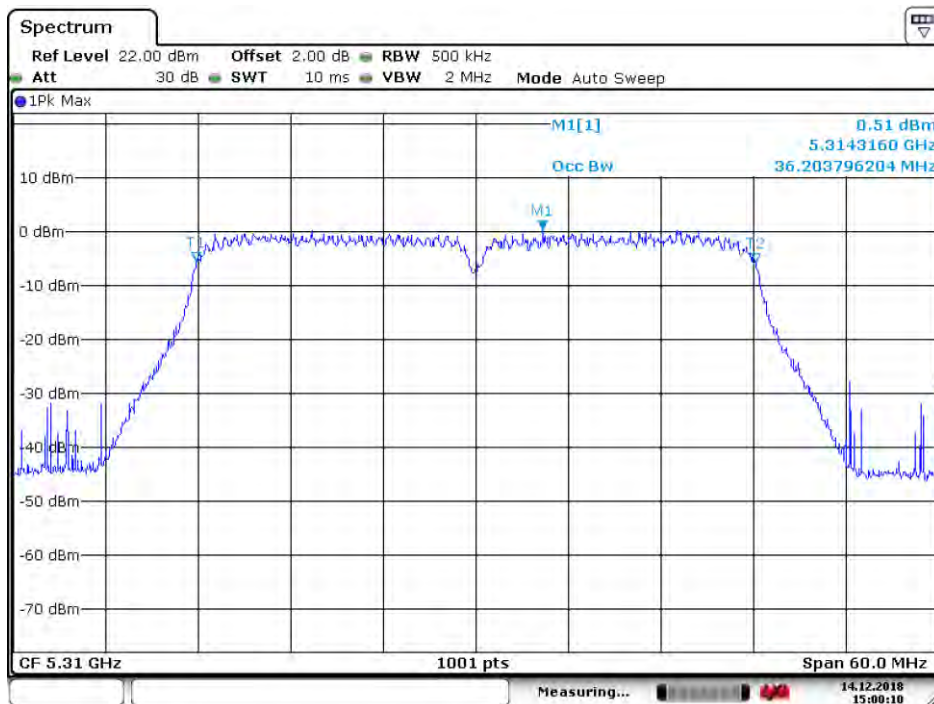


Date: 14.DEC.2018 14:59:21

4.5.2.179 11AC40\_MIMO\_62 ANT 2

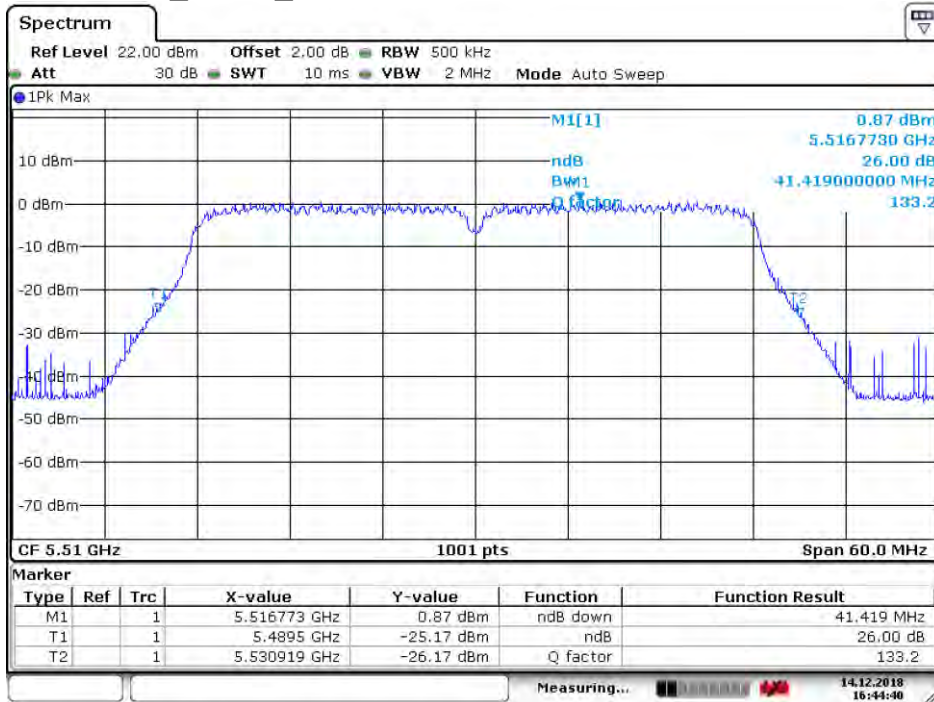


Date: 14.DEC.2018 16:44:02

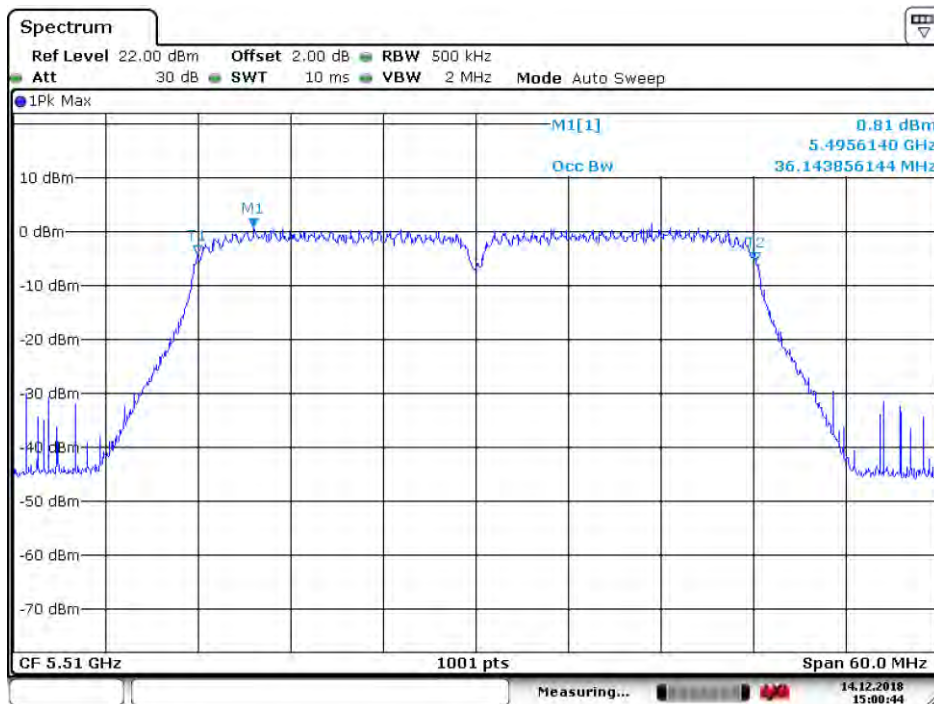


Date: 14.DEC.2018 15:00:10

4.5.2.180 11AC40\_MIMO\_102 ANT 2

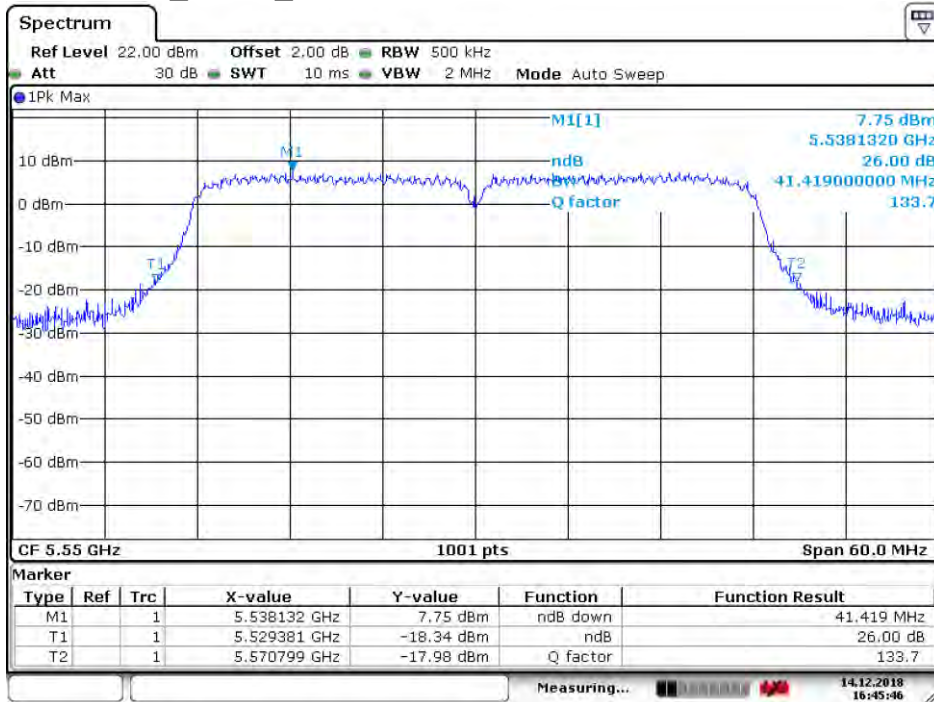


Date: 14.DEC.2018 16:44:40

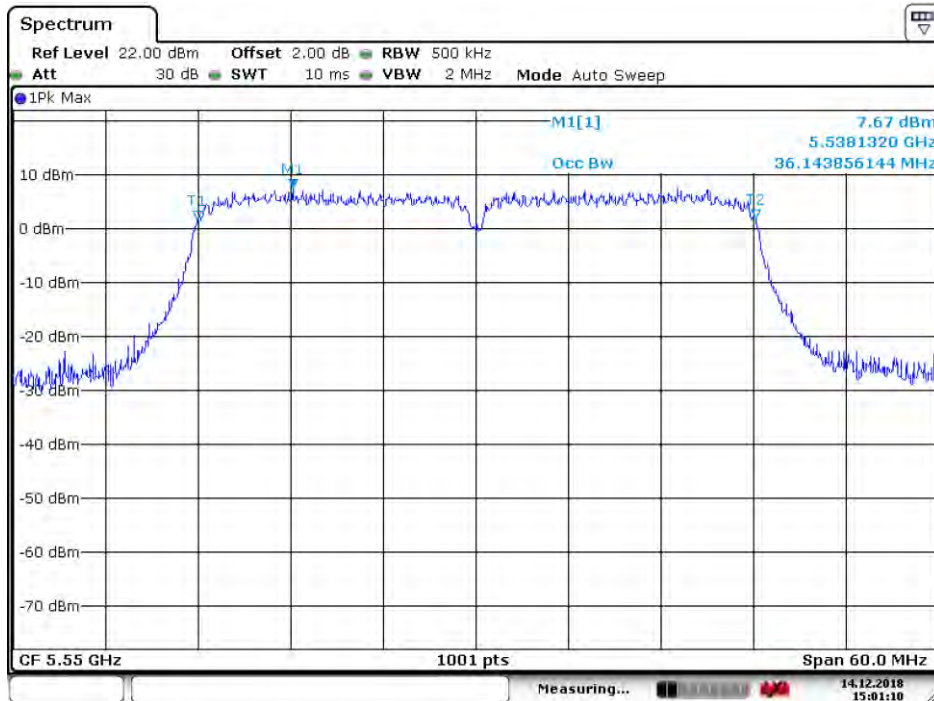


Date: 14.DEC.2018 15:00:45

4.5.2.181 11AC40\_MIMO\_110 ANT 2

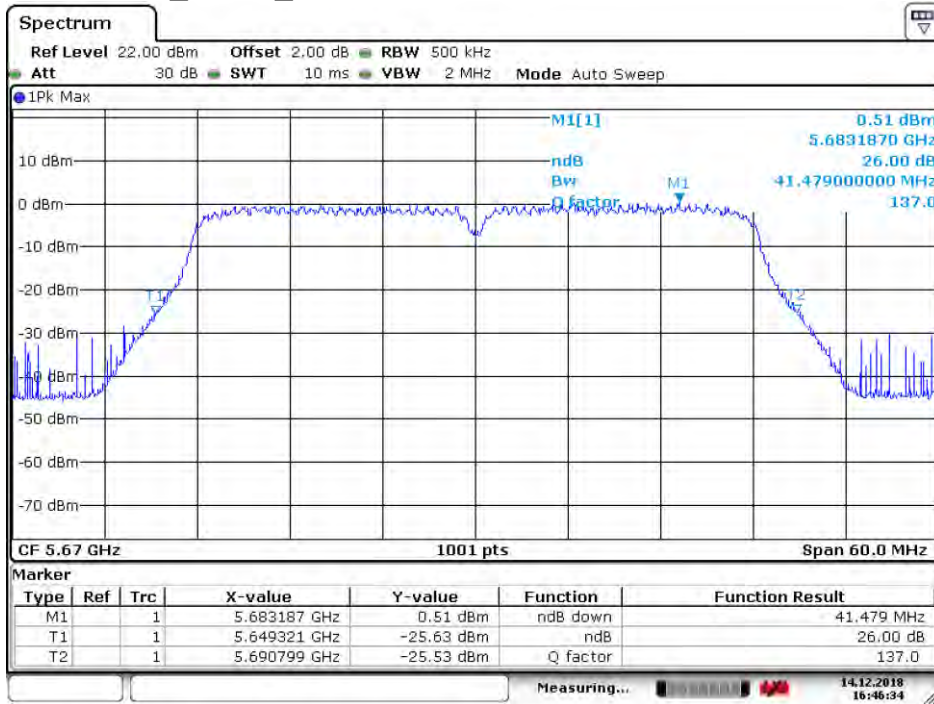


Date: 14.DEC.2018 16:45:46

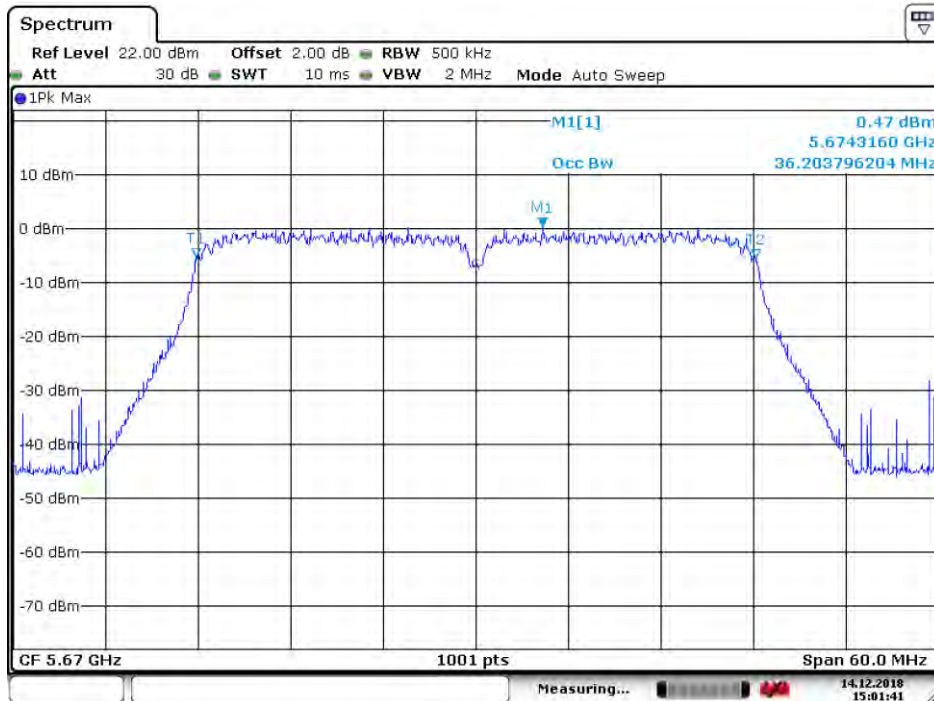


Date: 14.DEC.2018 15:01:11

4.5.2.182 11AC40\_MIMO\_134 ANT 2

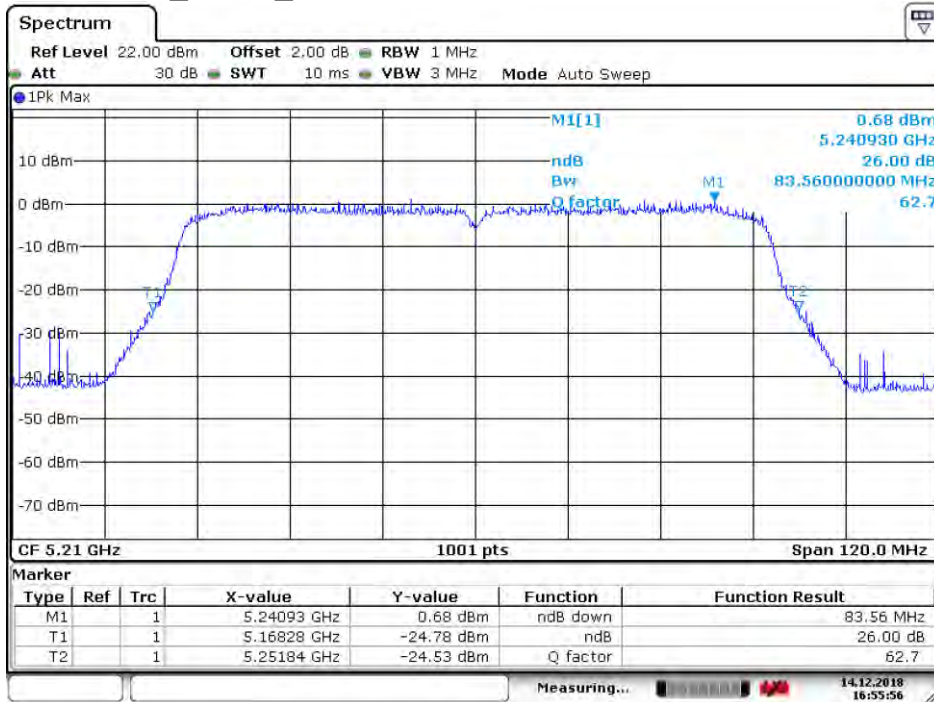


Date: 14.DEC.2018 16:46:35

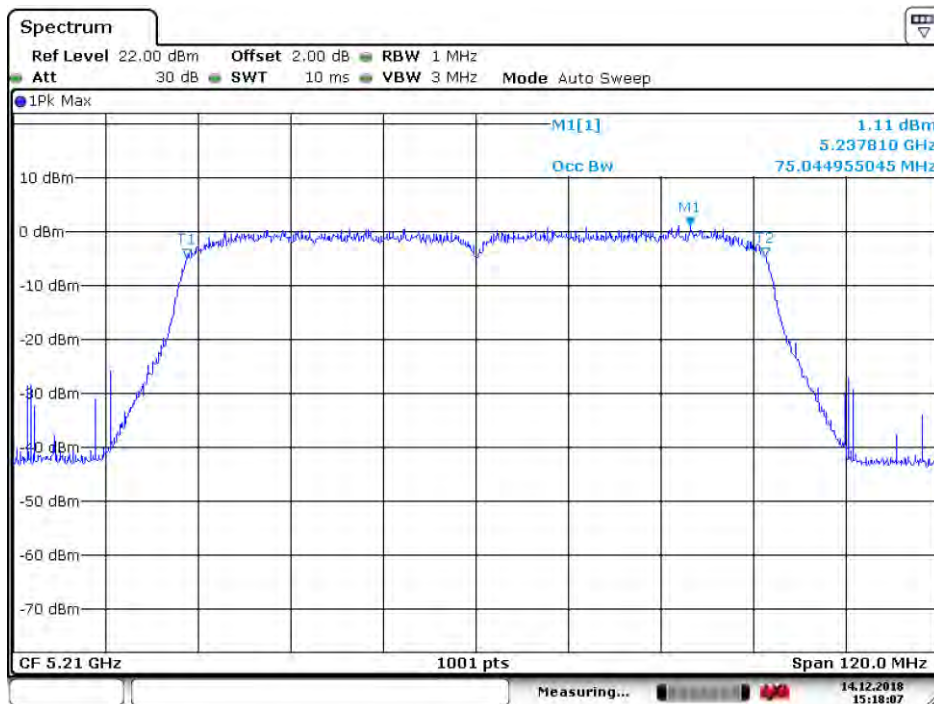


Date: 14.DEC.2018 15:01:41

4.5.2.183 11AC80\_MIMO\_42 ANT 2

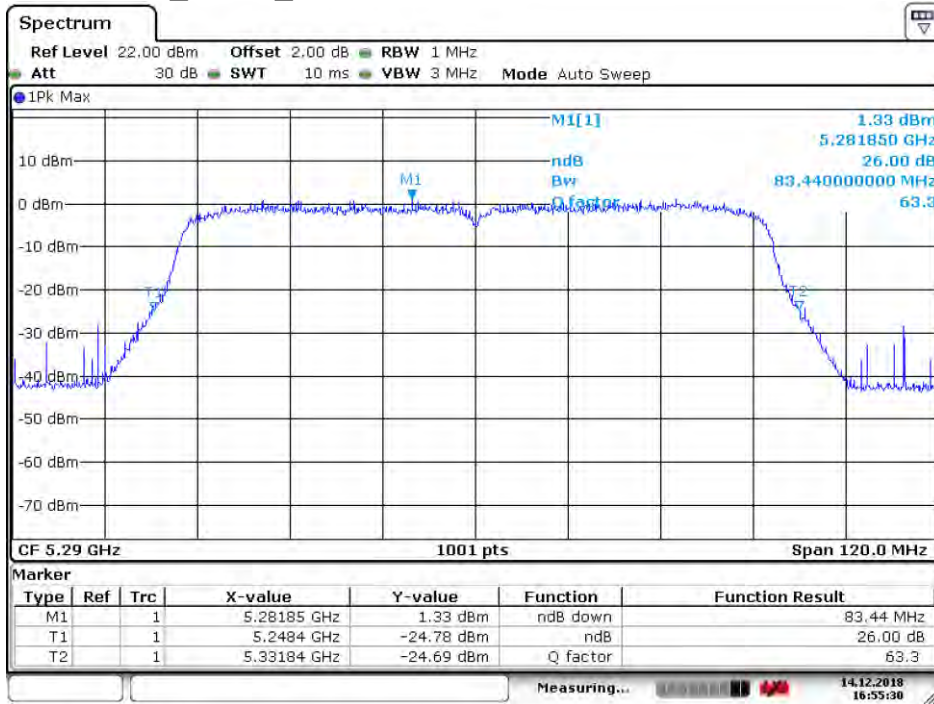


Date: 14.DEC.2018 16:55:56

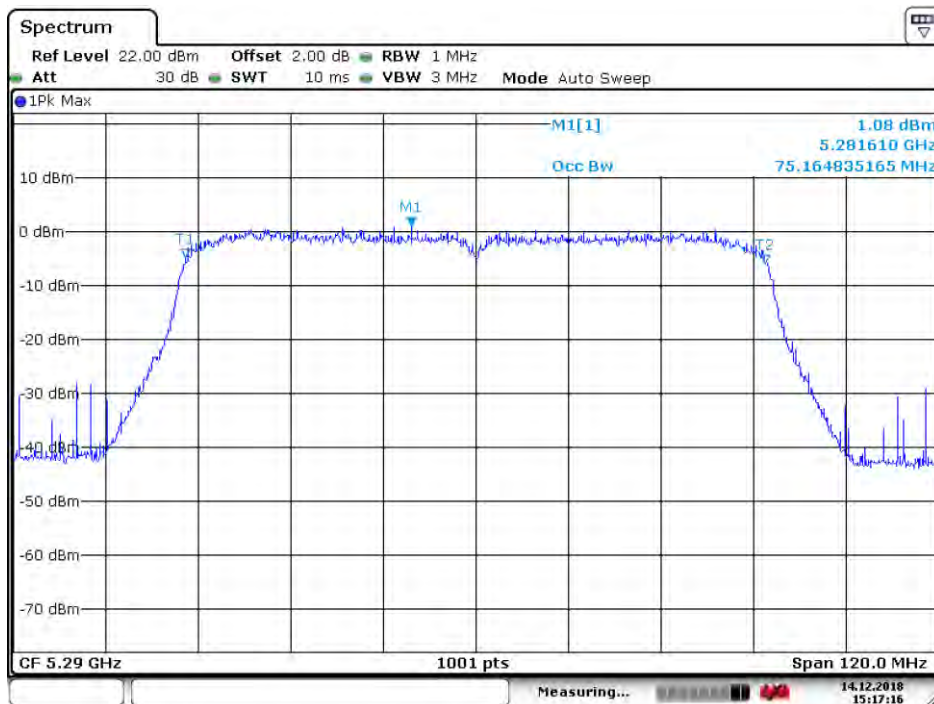


Date: 14.DEC.2018 15:18:08

4.5.2.184 11AC80\_MIMO\_58 ANT 2

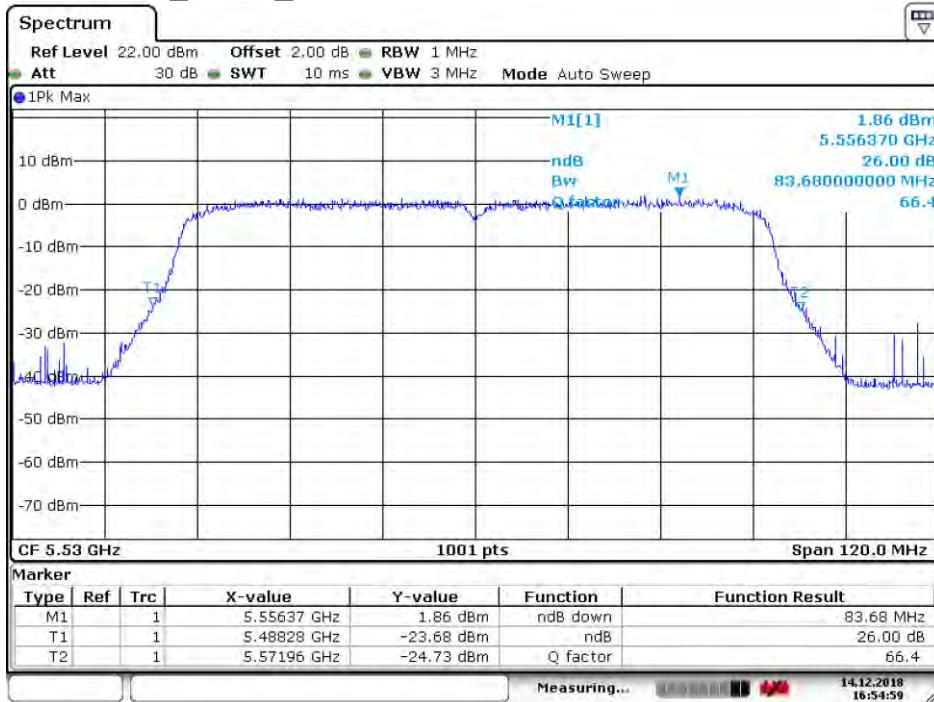


Date: 14.DEC.2018 16:55:30

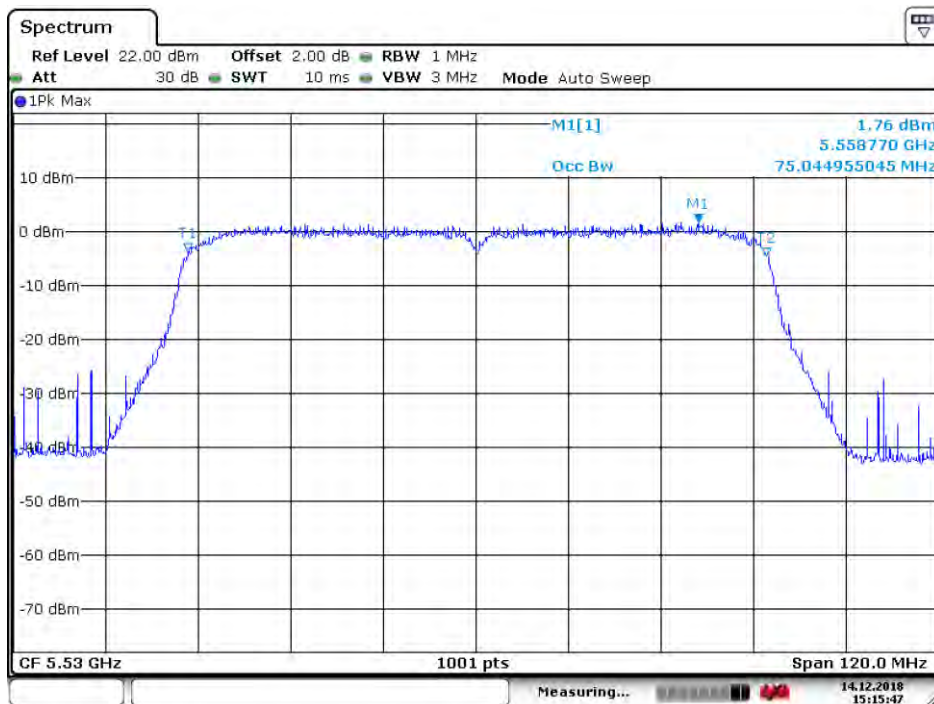


Date: 14.DEC.2018 15:17:16

4.5.2.185 11AC80\_MIMO\_106 ANT 2



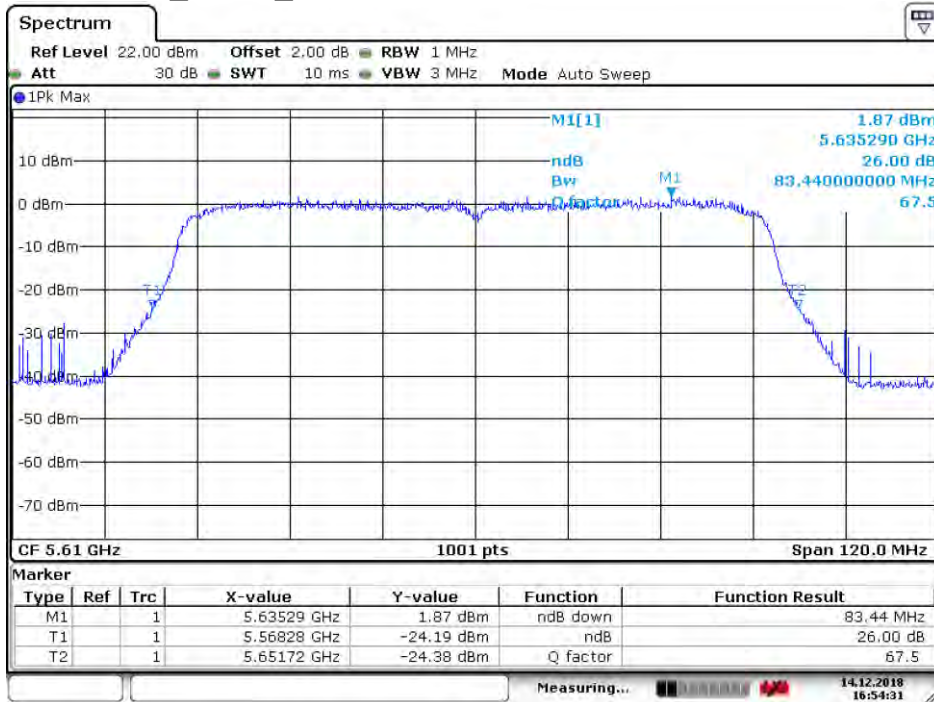
Date: 14.DEC.2018 16:55:00



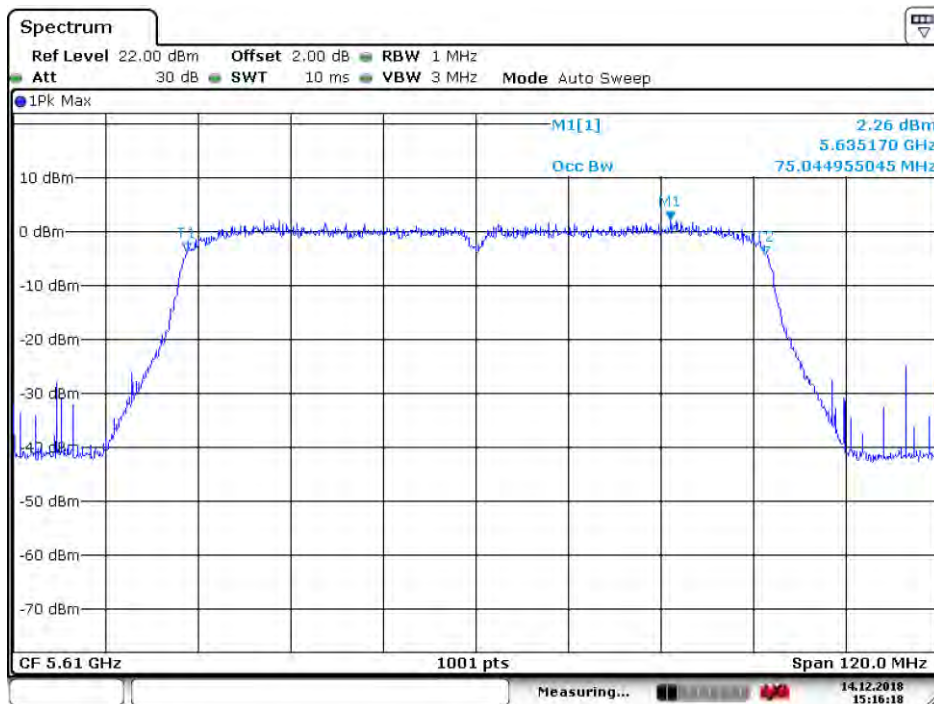
Date: 14.DEC.2018 15:15:47



4.5.2.186 11AC80\_MIMO\_122 ANT 2

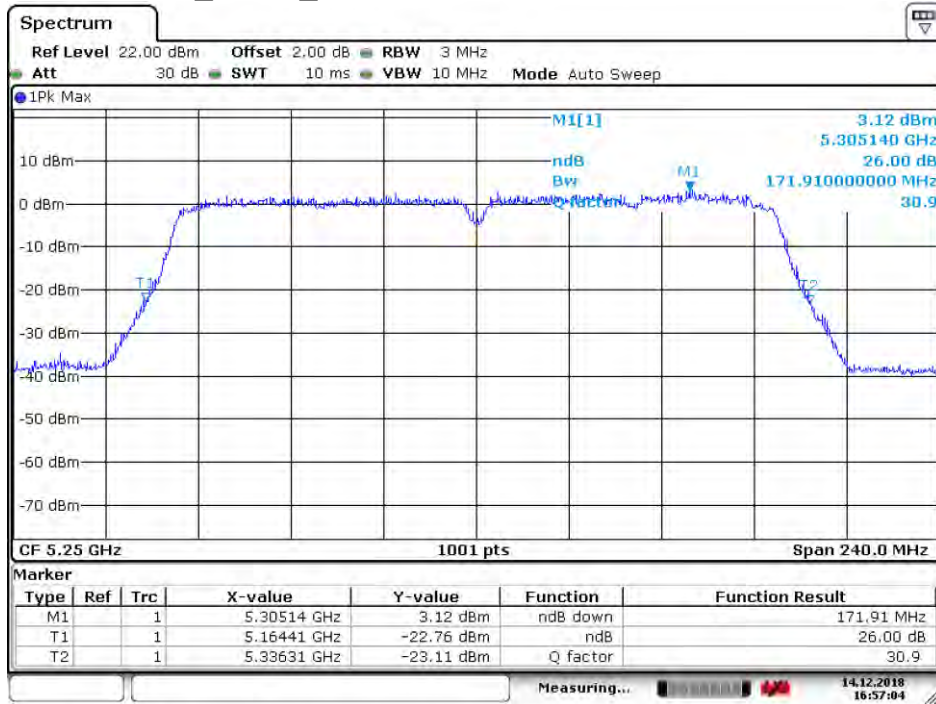


Date: 14.DEC.2018 16:54:31

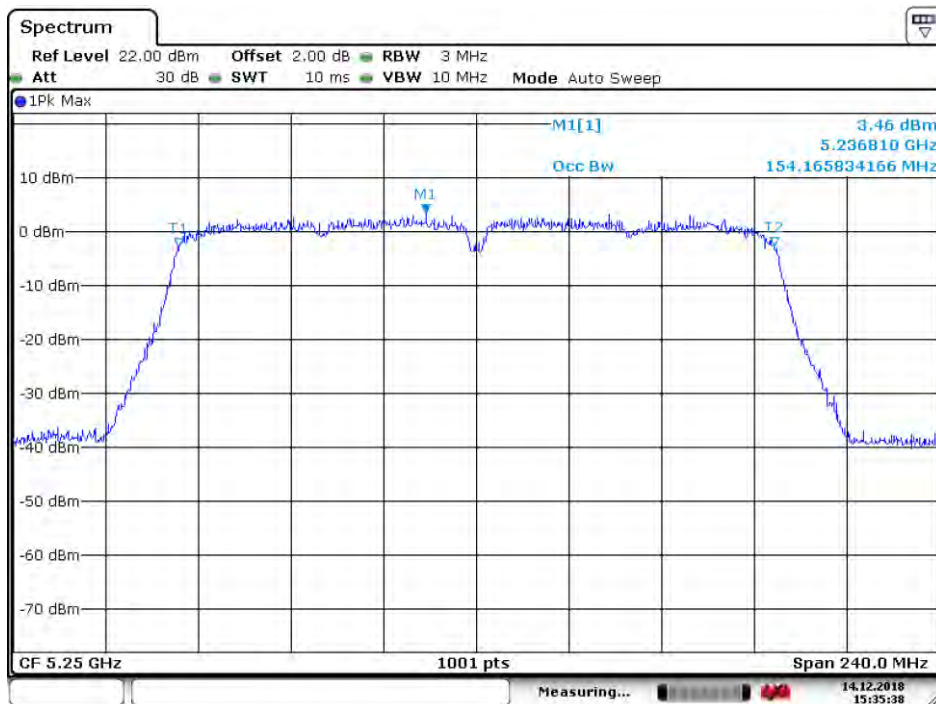


Date: 14.DEC.2018 15:16:19

4.5.2.187 11AC160\_MIMO\_50 ANT 2

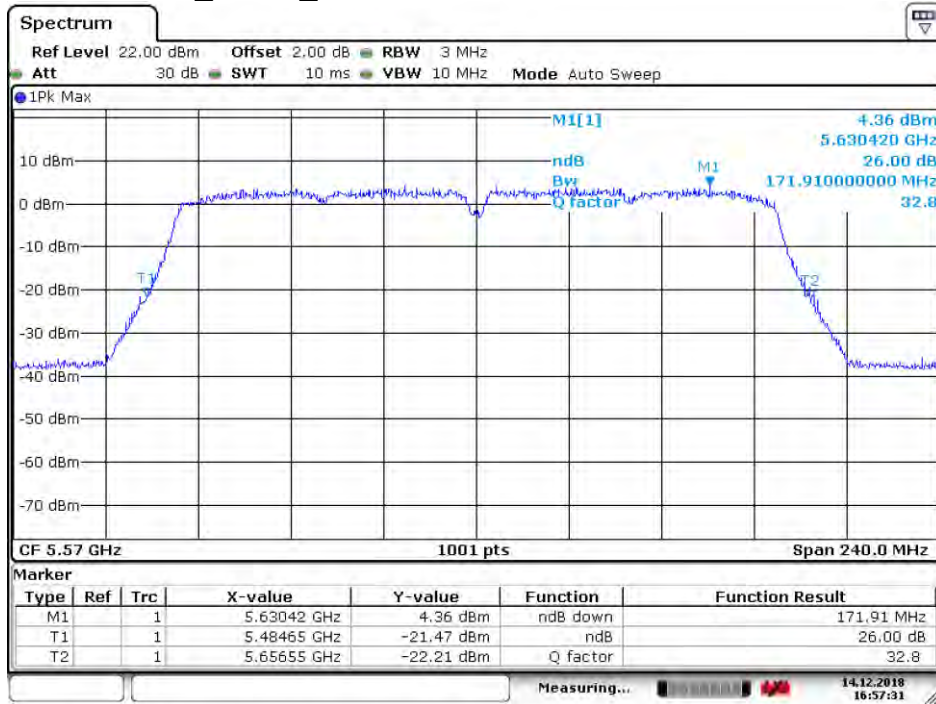


Date: 14 DEC.2018 16:57:04

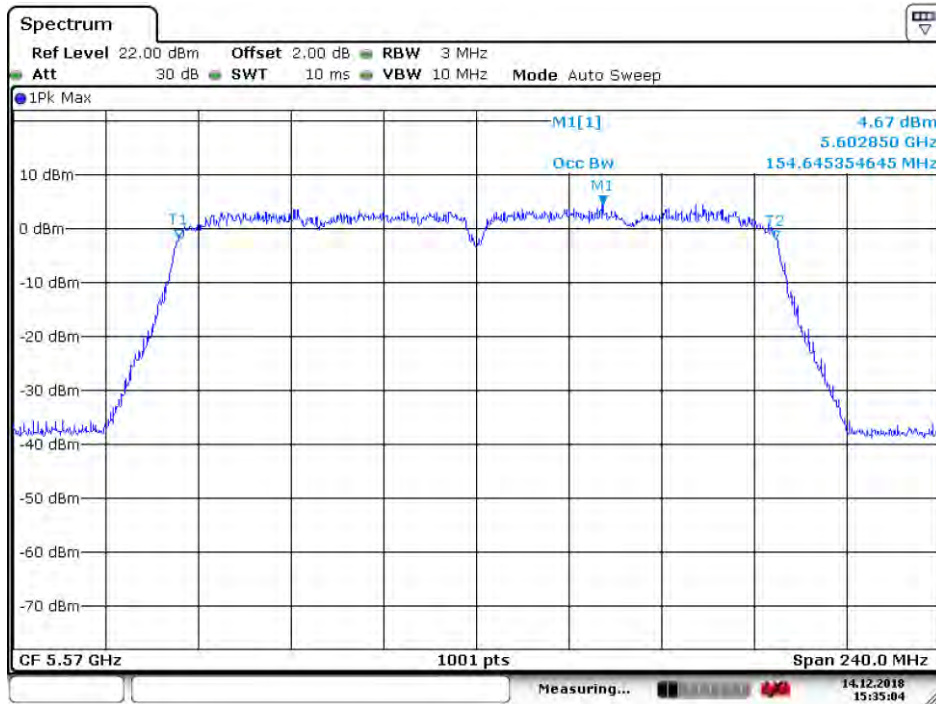


Date: 14 DEC.2018 15:35:38

4.5.2.188 11AC160\_MIMO\_114 ANT 2



Date: 14.DEC.2018 16:57:31



Date: 14.DEC.2018 15:35:04

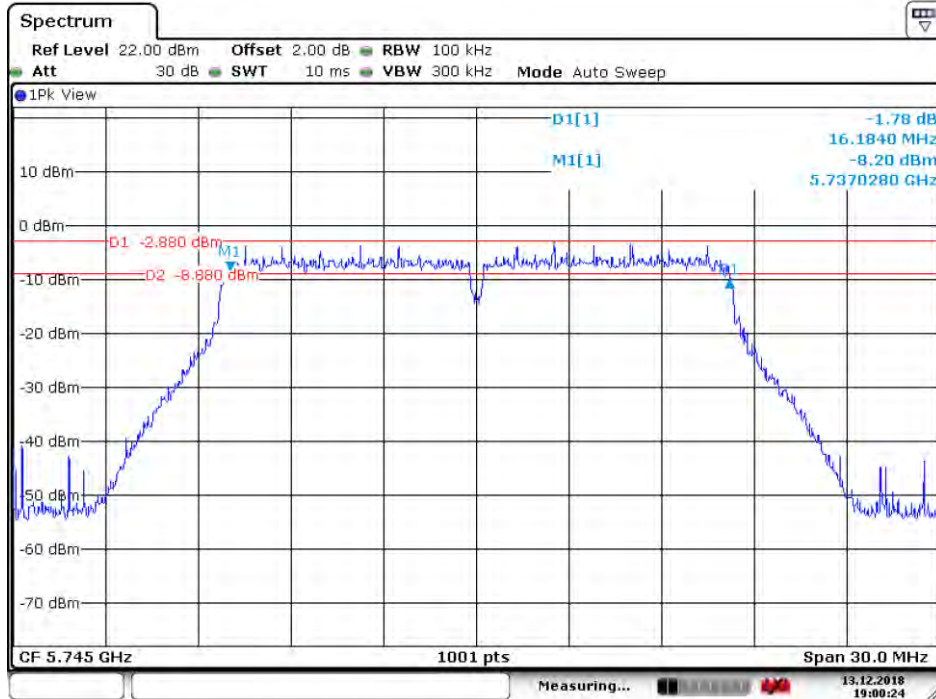
#### 4.6 6dB Emission Bandwidth & 99% Occupied Bandwidth

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

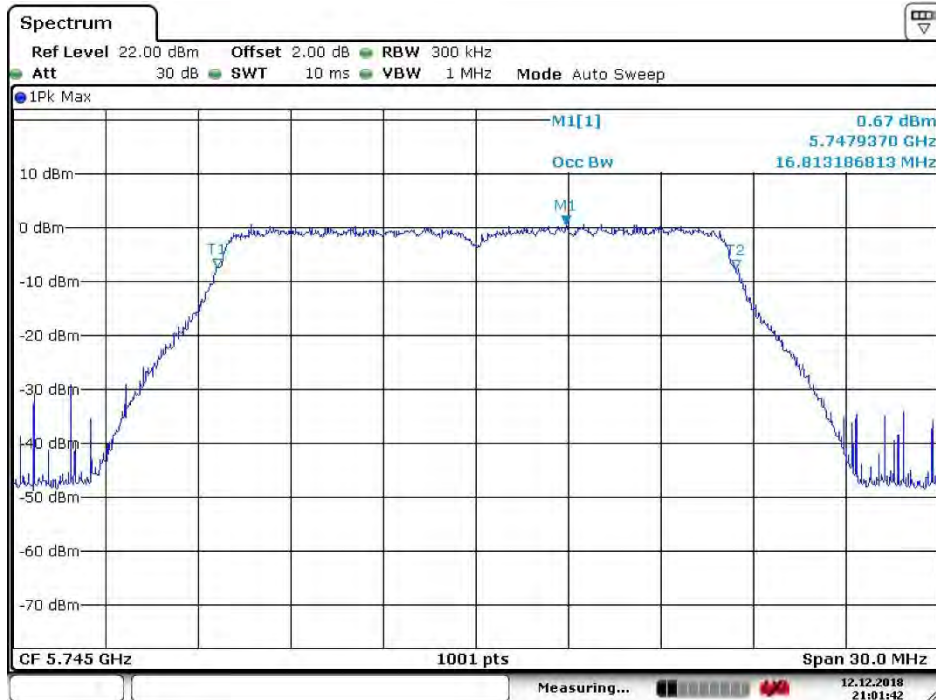


Test Mode	Test Channel	Frequency [MHz]	ANT 1		ANT 2		Verdict
			6dB EBW [MHz]	OBW [MHz]	6dB EBW [MHz]	OBW [MHz]	
11A20	149	5745	16.18	16.81	16.36	16.81	PASS
	157	5785	16.39	16.81	16.39	16.84	PASS
	165	5825	16.33	16.78	16.36	16.81	PASS
11N20	149	5745	17.35	17.74	17.26	17.71	PASS
	157	5785	17.17	17.74	17.32	17.74	PASS
	165	5825	17.11	17.74	17.11	17.74	PASS
11N40	151	5755	35.54	36.32	36.02	36.32	PASS
	159	5795	35.96	36.32	35.96	36.32	PASS
11AC20	149	5745	17.35	17.74	17.14	17.74	PASS
	157	5785	17.17	17.77	17.14	17.74	PASS
	165	5825	17.23	17.74	17.17	17.74	PASS
11AC40	151	5755	35.72	36.32	35.84	36.32	PASS
	159	5795	35.90	36.32	35.84	36.32	PASS
11AC80	155	5775	75.10	75.28	75.16	75.40	PASS
11A20 CDD	149	5745	16.33	16.81	16.24	16.63	PASS
	157	5785	16.39	16.81	16.36	16.63	PASS
	165	5825	16.36	16.84	16.39	16.63	PASS
11N20 MIMO	149	5745	17.23	17.74	17.53	17.62	PASS
	157	5785	17.29	17.74	17.56	17.62	PASS
	165	5825	17.35	17.71	17.32	17.62	PASS
11N40 MIMO	151	5755	35.66	36.32	35.72	36.08	PASS
	159	5795	36.02	36.32	35.54	36.08	PASS
11AC20 MIMO	149	5745	17.32	17.77	17.59	17.65	PASS
	157	5785	17.32	17.74	17.32	17.65	PASS
	165	5825	17.32	17.77	17.35	17.65	PASS
11AC40 MIMO	151	5755	35.84	36.38	35.36	36.20	PASS
	159	5795	35.72	36.32	35.96	36.14	PASS
11AC80 MIMO	155	5775	75.16	75.28	74.09	75.04	PASS

4.6.1 Plots for 6dB Emission Bandwidth & 99% Occupied Bandwidth  
4.6.1.1 11A20\_149 ANT 1



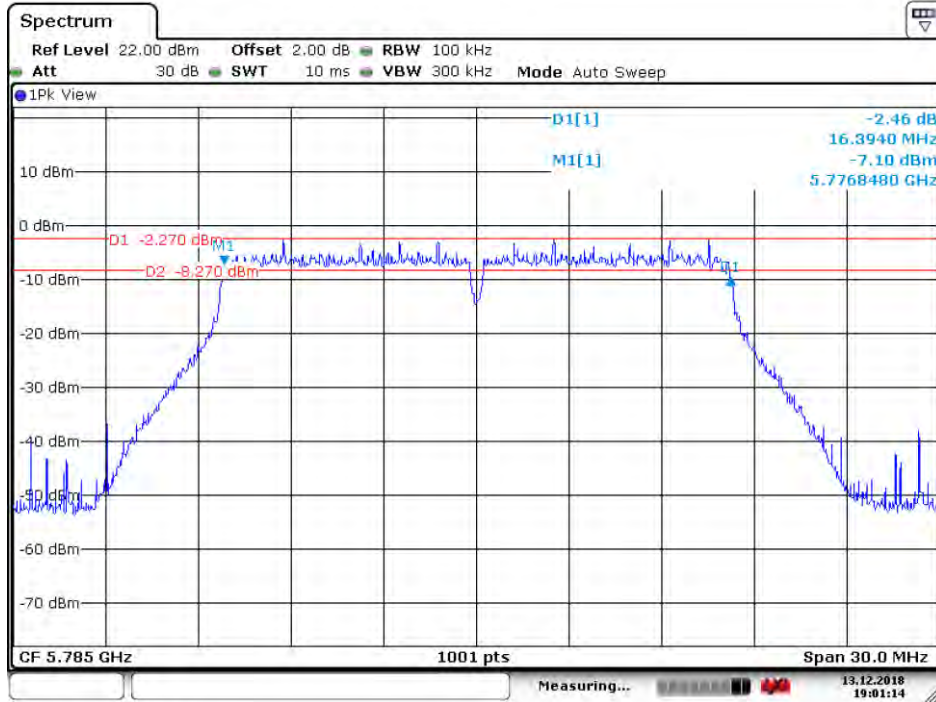
Date: 13.DEC.2018 19:00:24



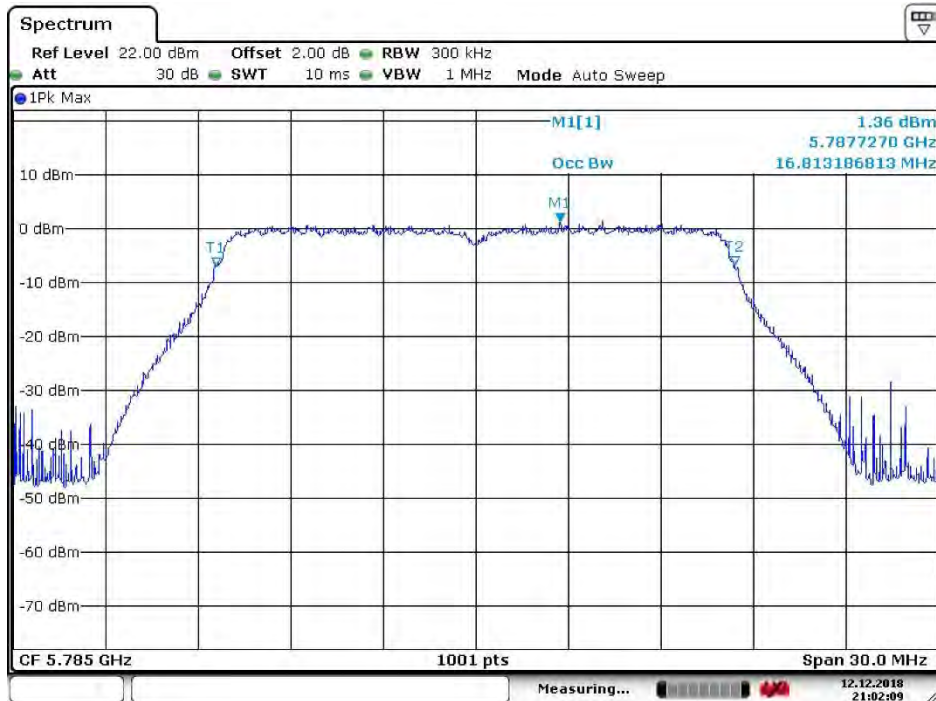
Date: 12.DEC.2018 21:01:42

4.6.1.2

11A20\_157 ANT 1



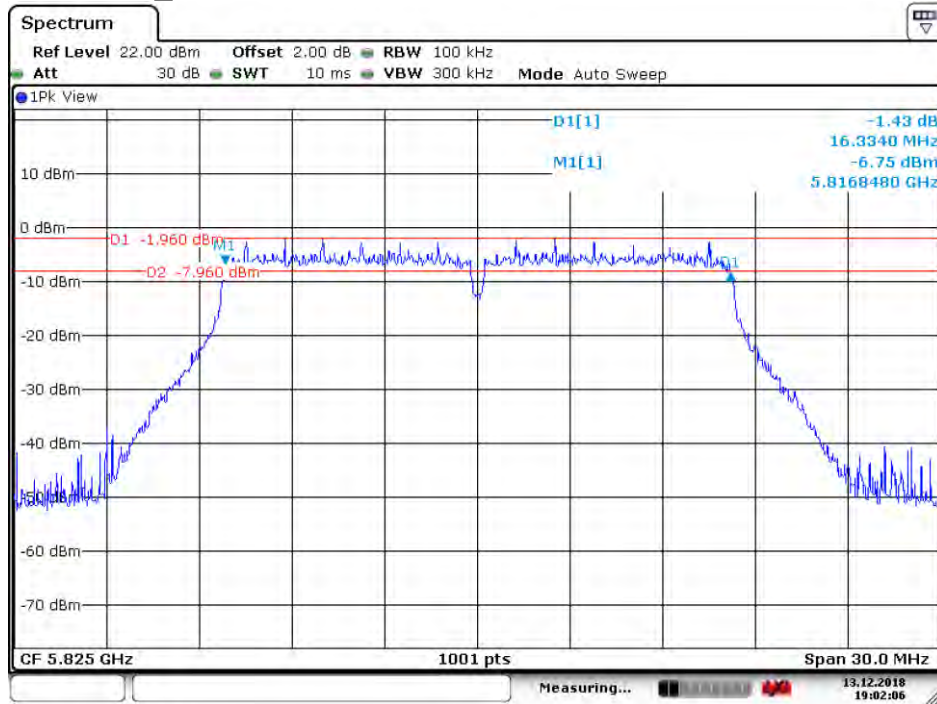
Date: 13.DEC.2018 19:01:15



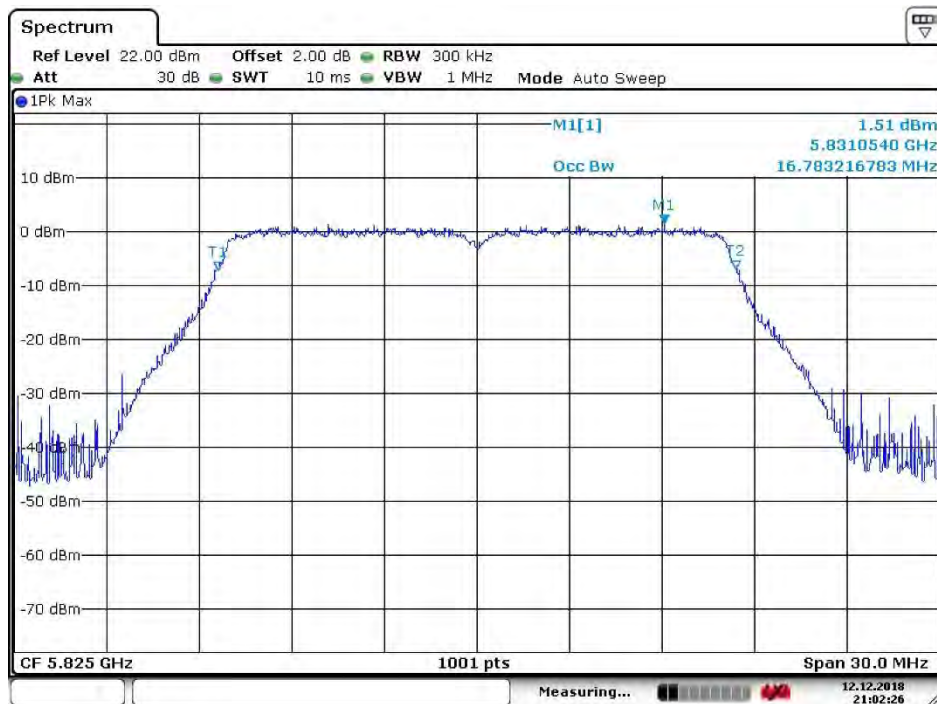
Date: 12.DEC.2018 21:02:09

4.6.1.3

11A20\_165 ANT 1



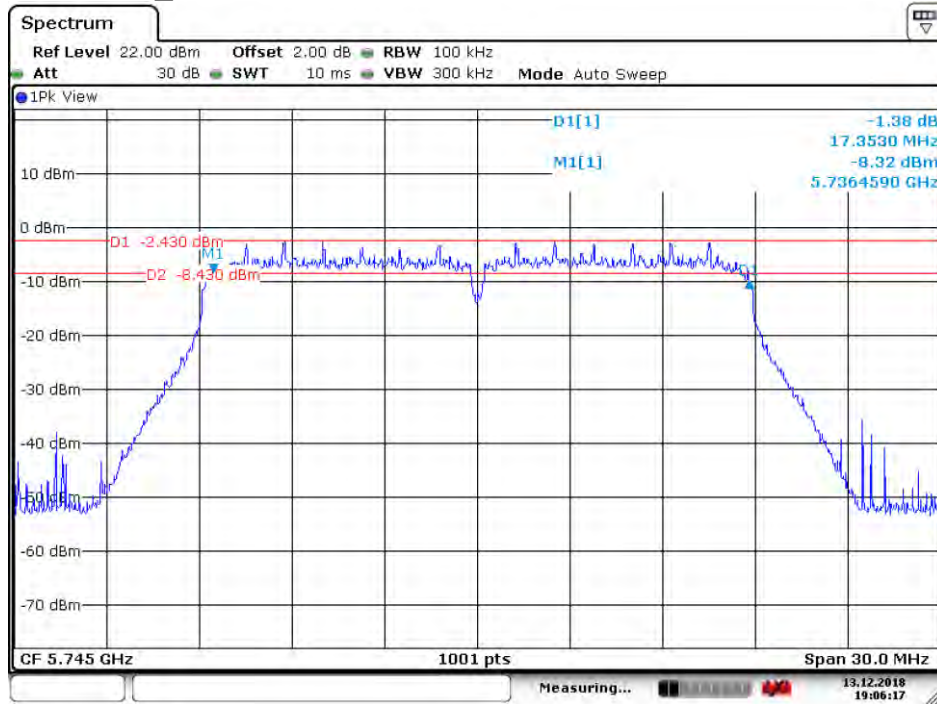
Date: 13.DEC.2018 19:02:06



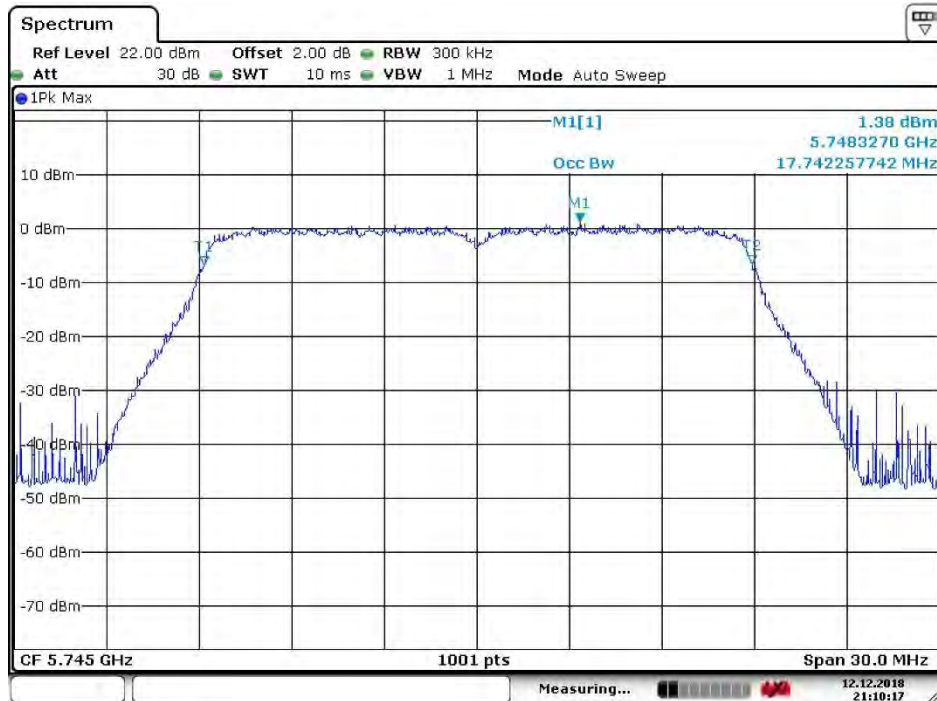
Date: 12.DEC.2018 21:02:26



**4.6.1.4 11N20\_149 ANT 1**

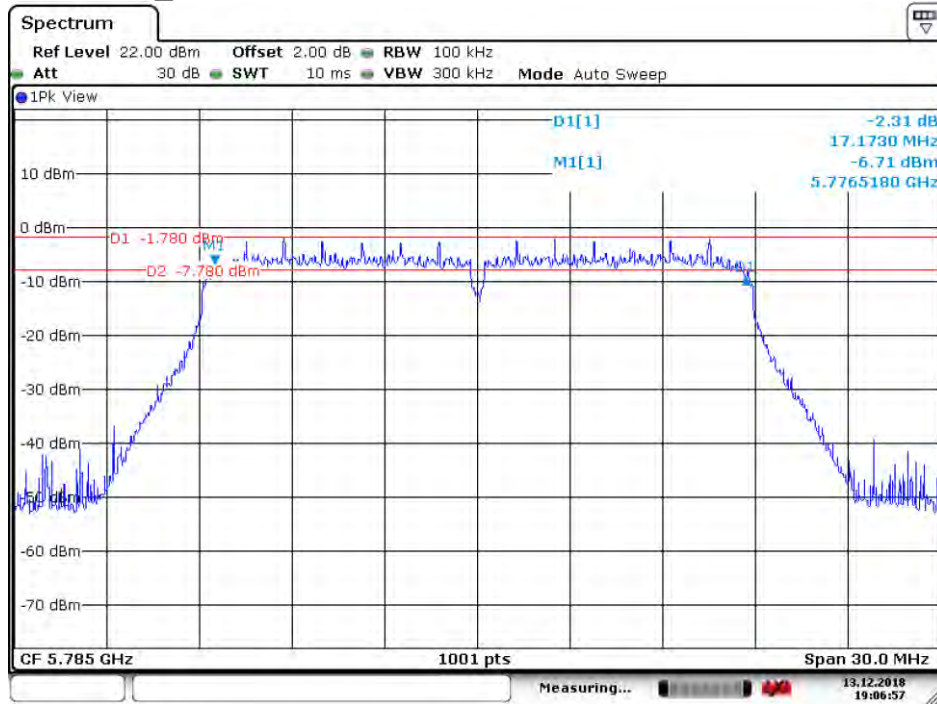


Date: 13.DEC.2018 19:06:17

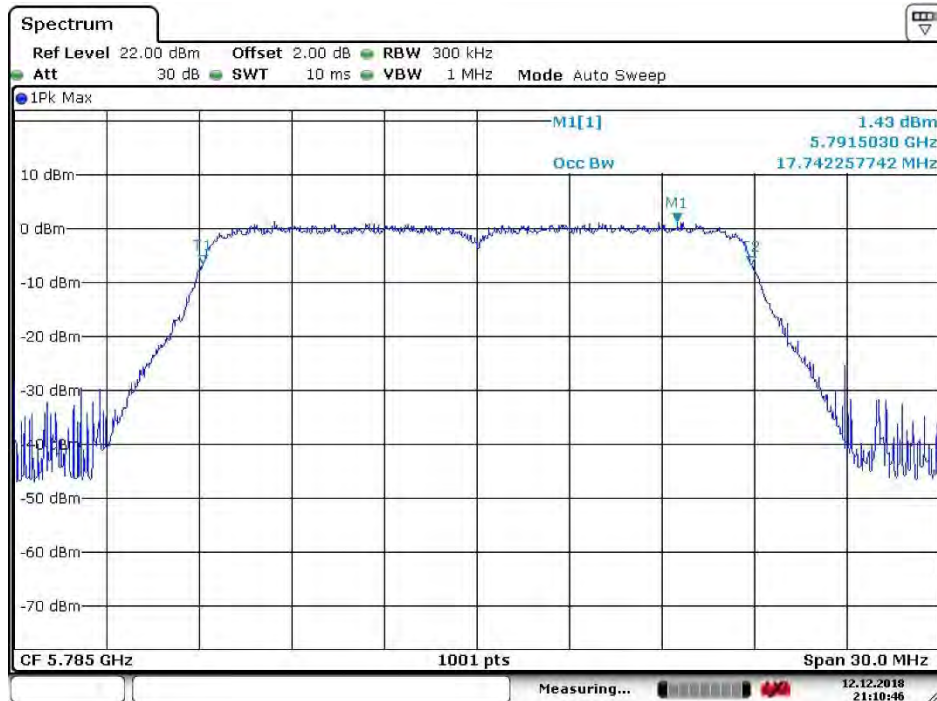


Date: 12.DEC.2018 21:10:18

4.6.1.5 11N20\_157 ANT 1



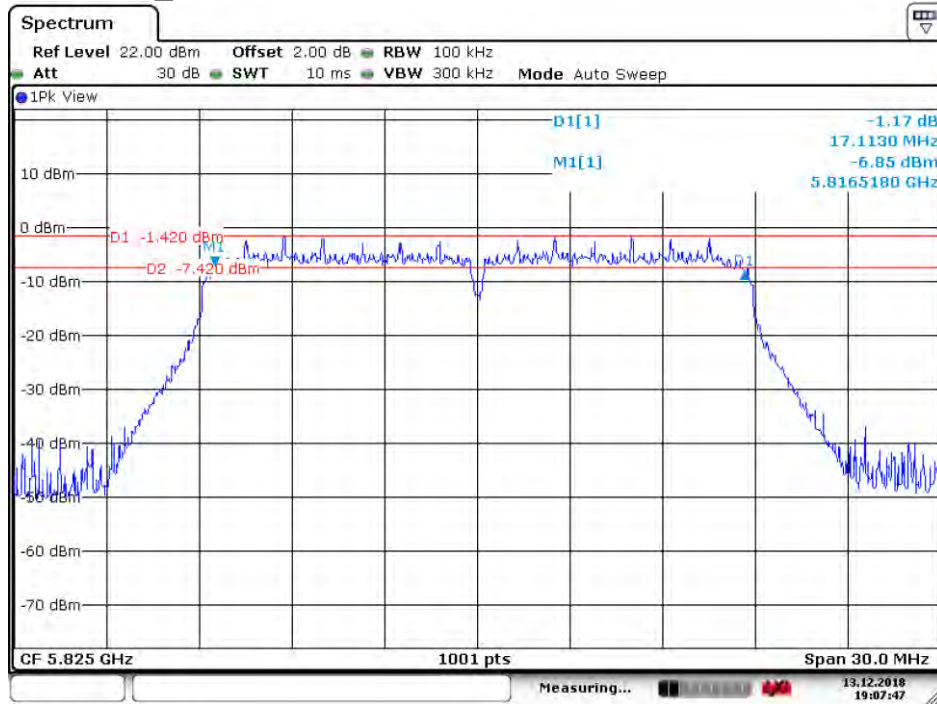
Date: 13.DEC.2018 19:06:58



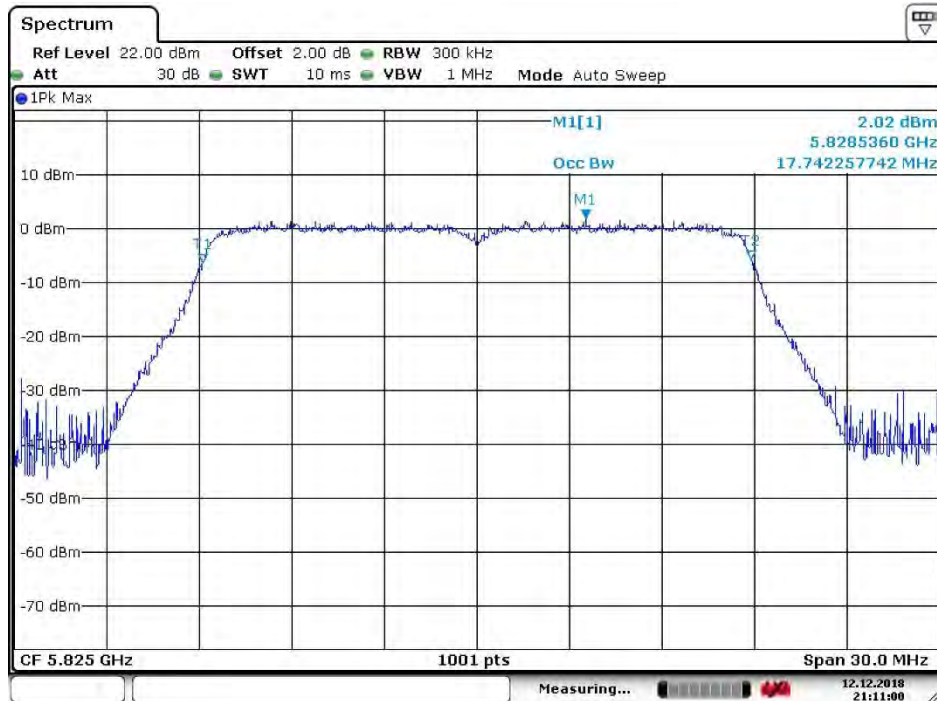
Date: 12.DEC.2018 21:10:46

4.6.1.6

11N20\_165 ANT 1

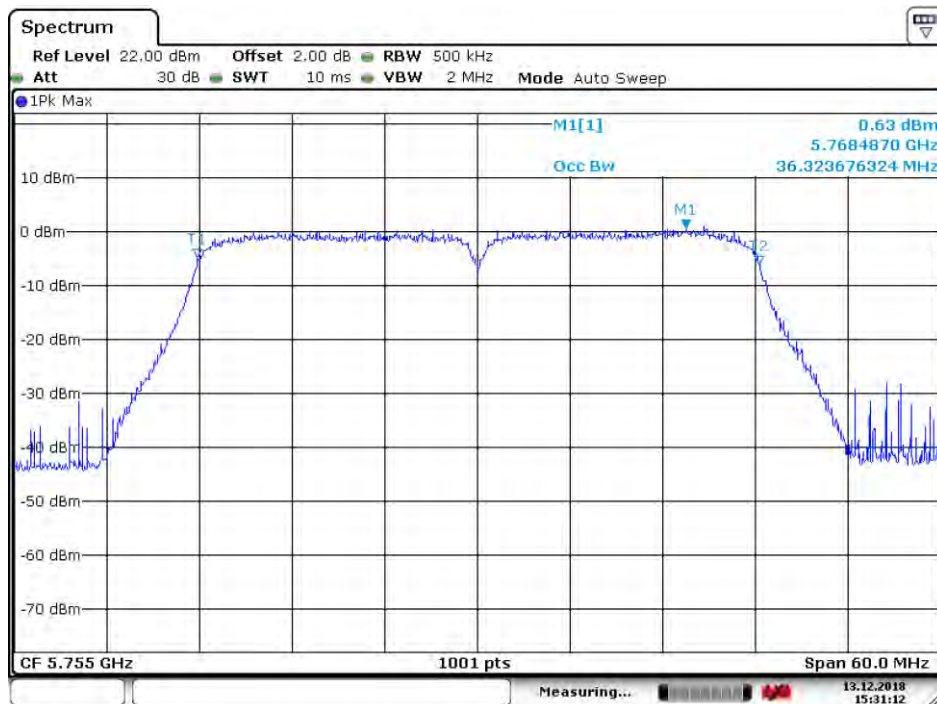
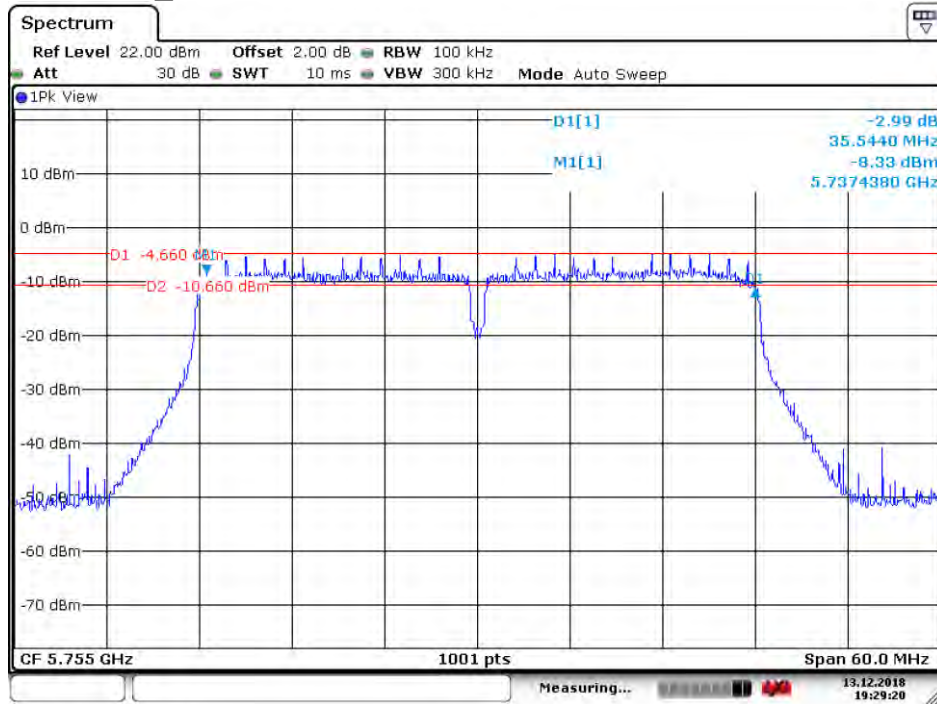


Date: 13.DEC.2018 19:07:47

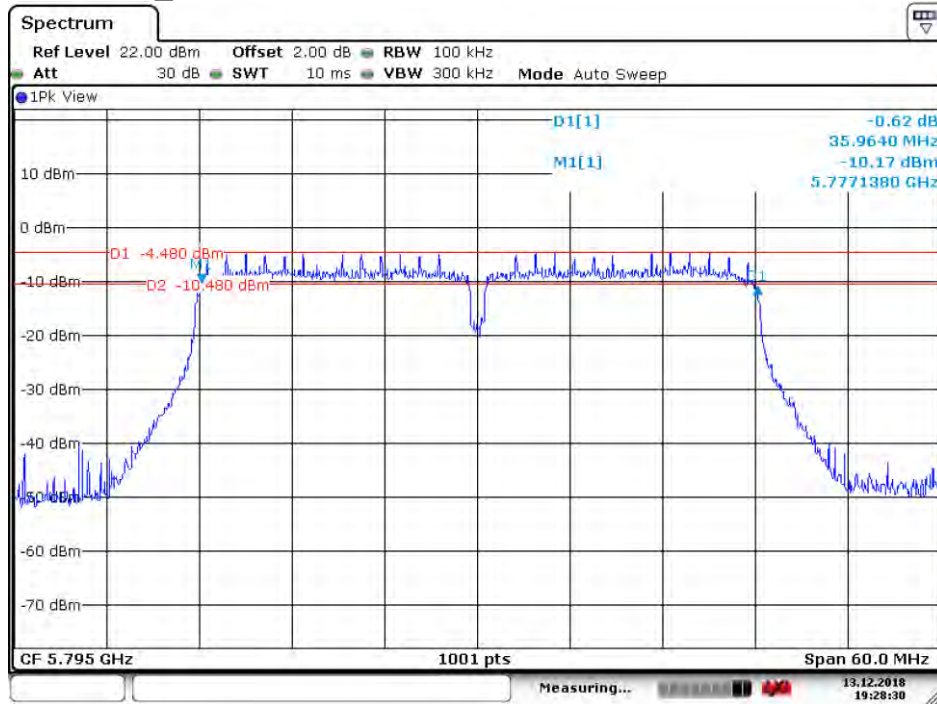


Date: 12.DEC.2018 21:11:01

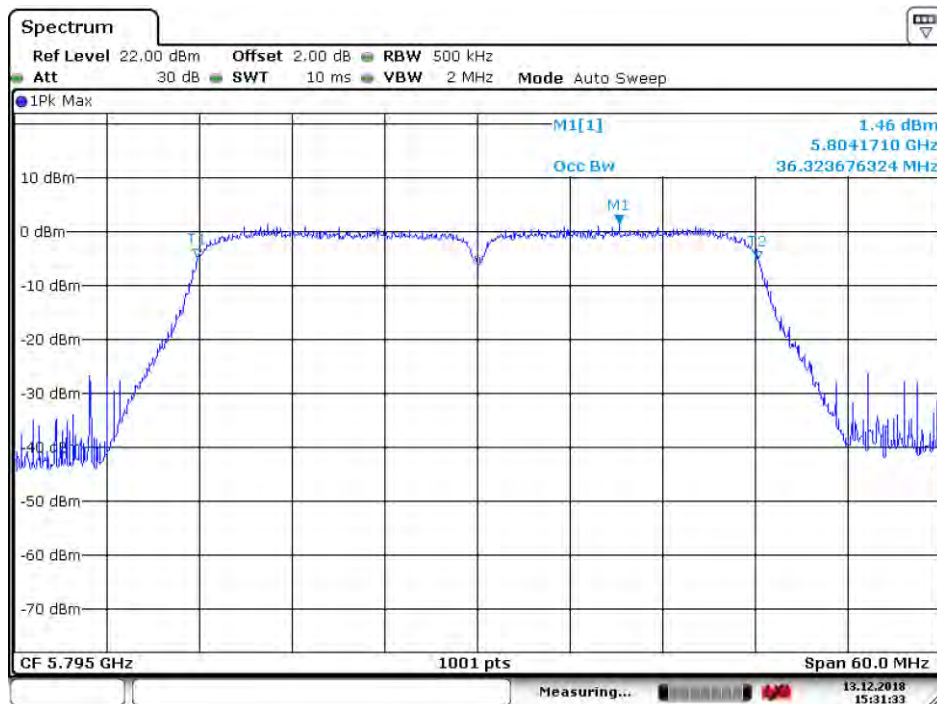
4.6.1.7 11N40\_151 ANT 1



4.6.1.8 11N40\_159 ANT 1

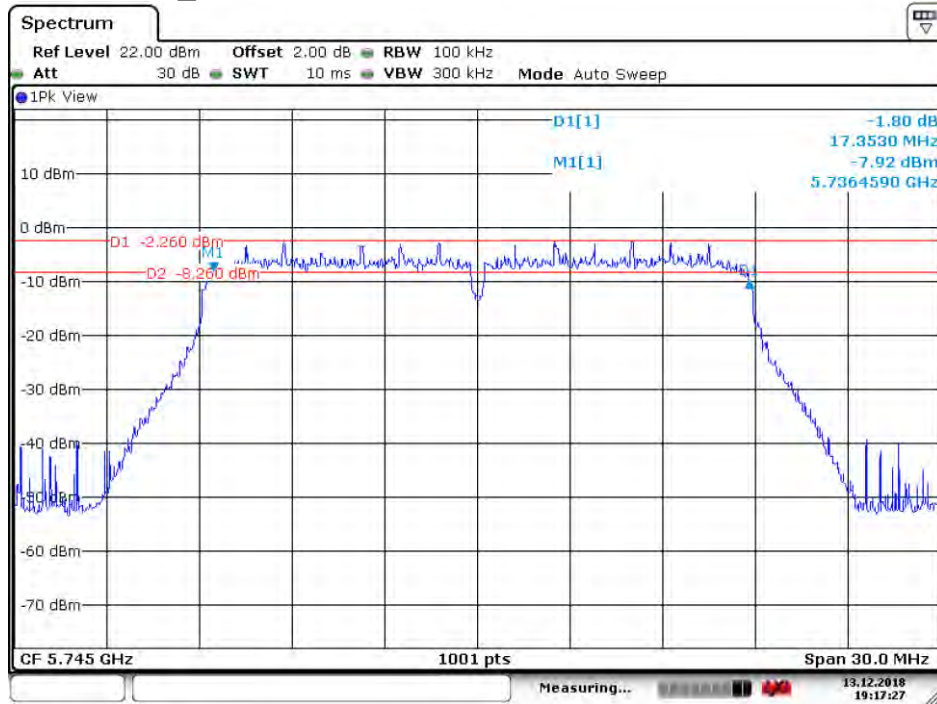


Date: 13.DEC.2018 19:28:31

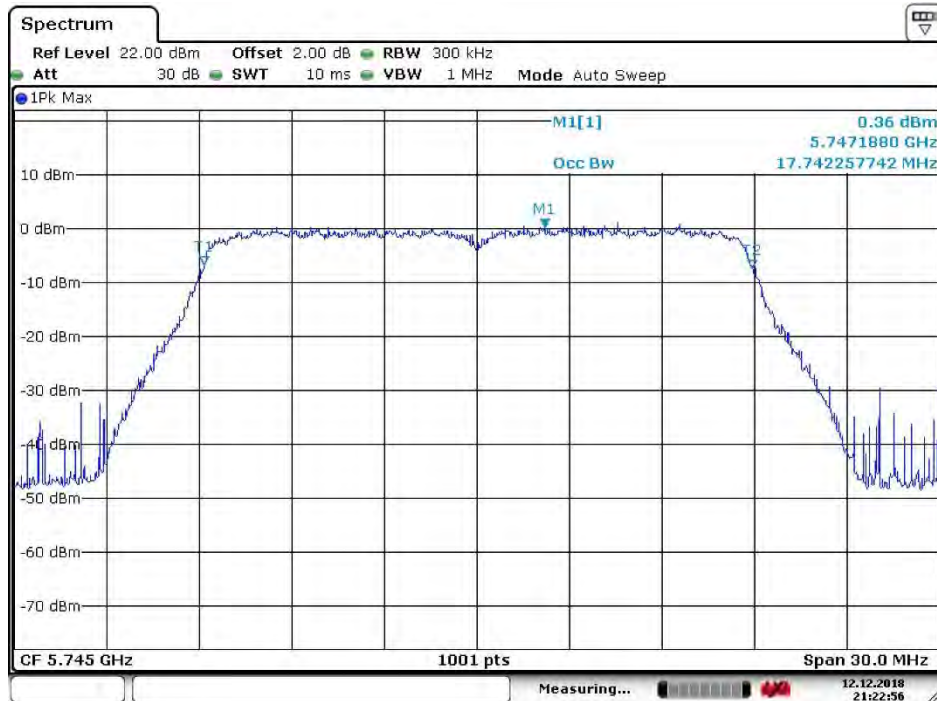


Date: 13.DEC.2018 19:31:33

4.6.1.9 11AC20\_149 ANT 1

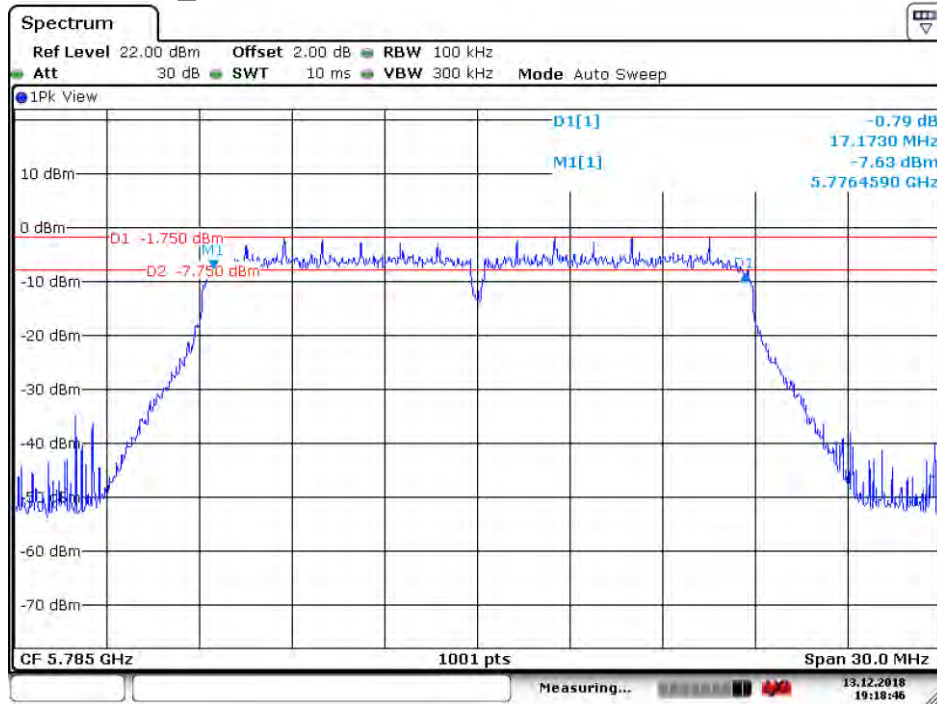


Date: 13.DEC.2018 19:17:27

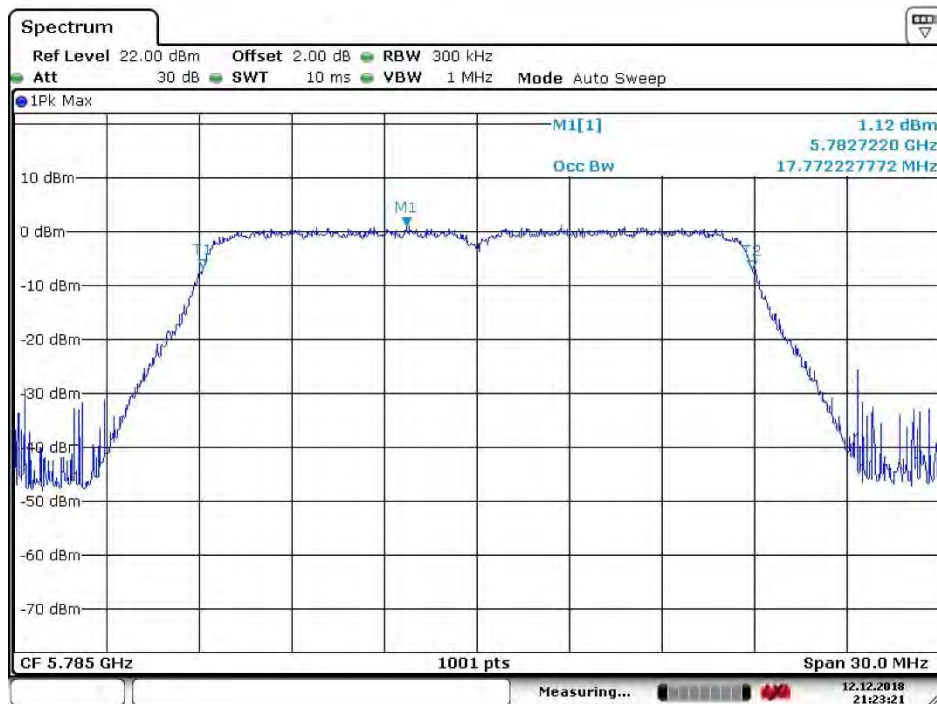


Date: 12.DEC.2018 21:22:56

4.6.1.10 11AC20\_157 ANT 1

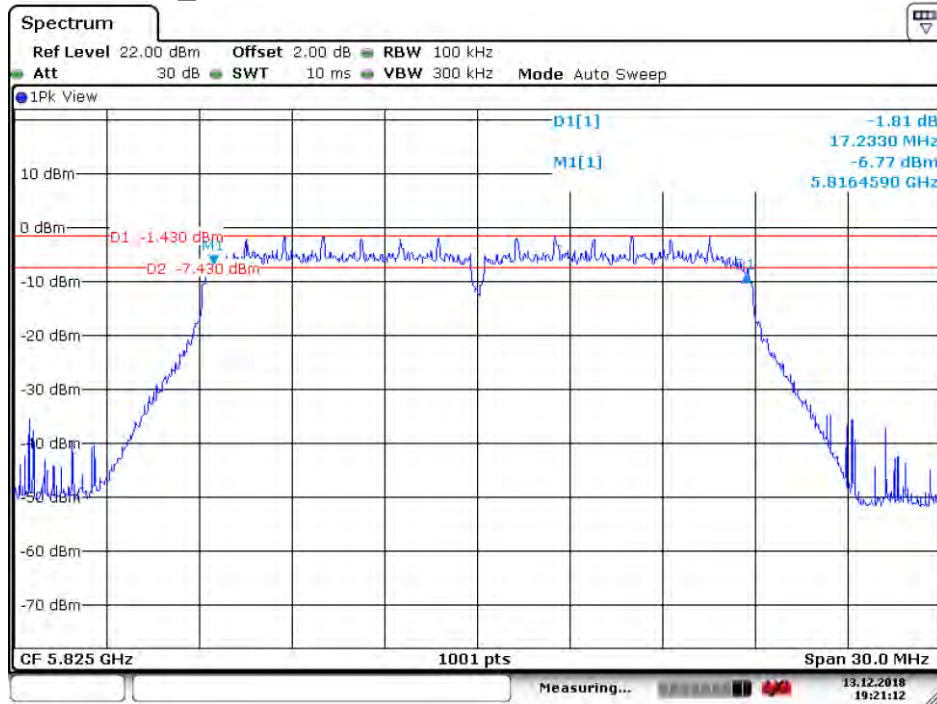


Date: 13.DEC.2018 19:18:46

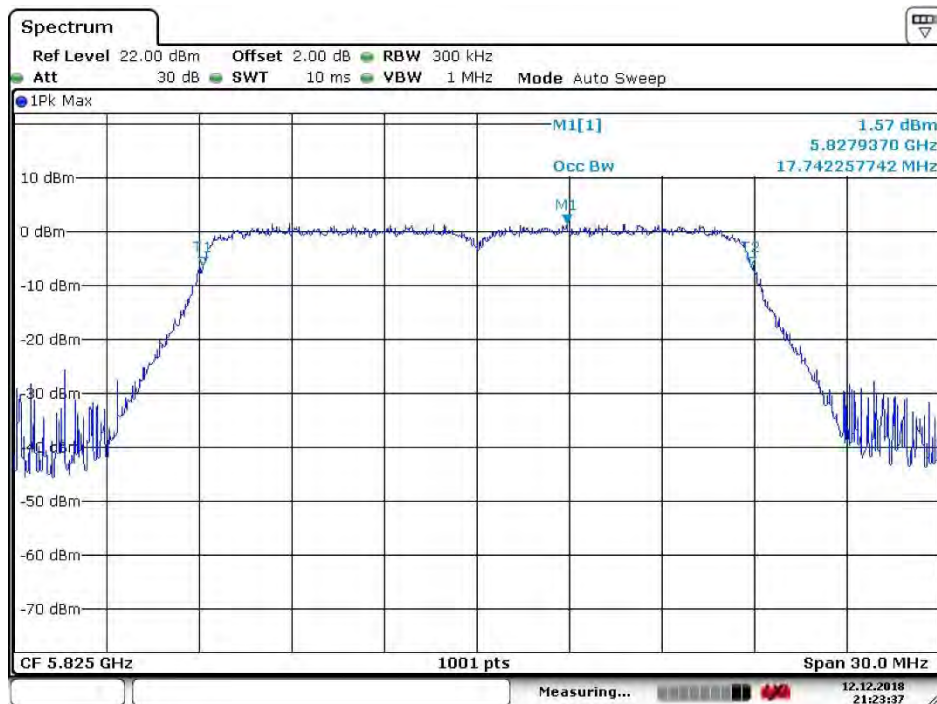


Date: 12.DEC.2018 21:23:21

4.6.1.11 11AC20\_165 ANT 1



Date: 13.DEC.2018 19:21:13



Date: 12.DEC.2018 21:23:38