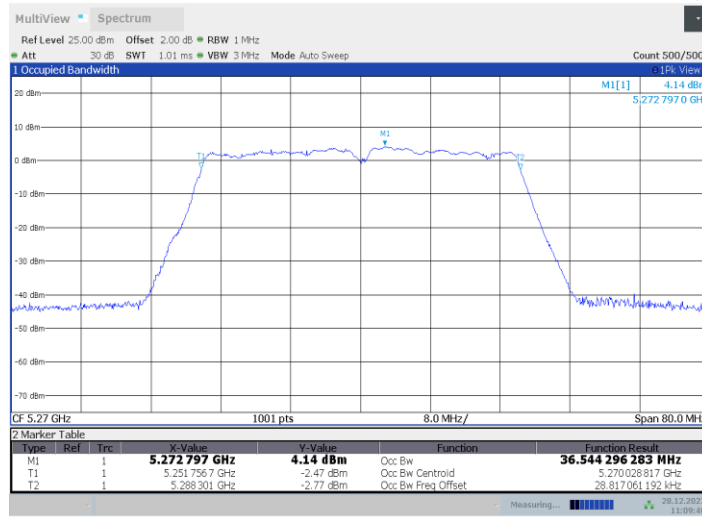
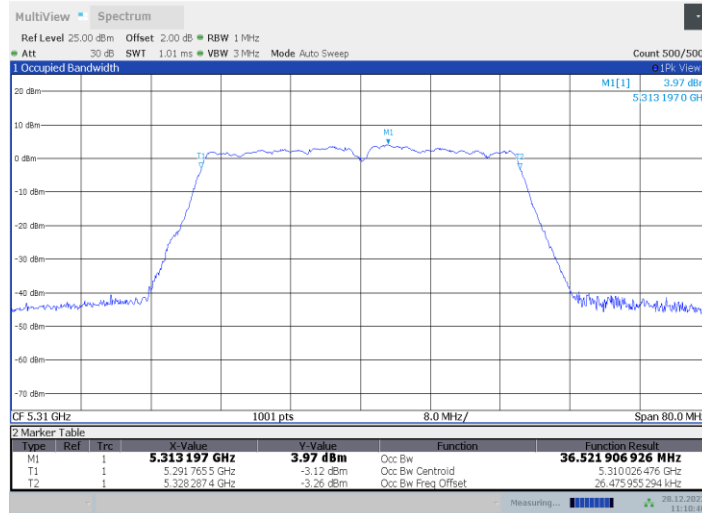


11ac40SISO Ant6 5270



11:09:41 28.12.2022

11ac40SISO Ant6 5310



11:10:40 28.12.2022



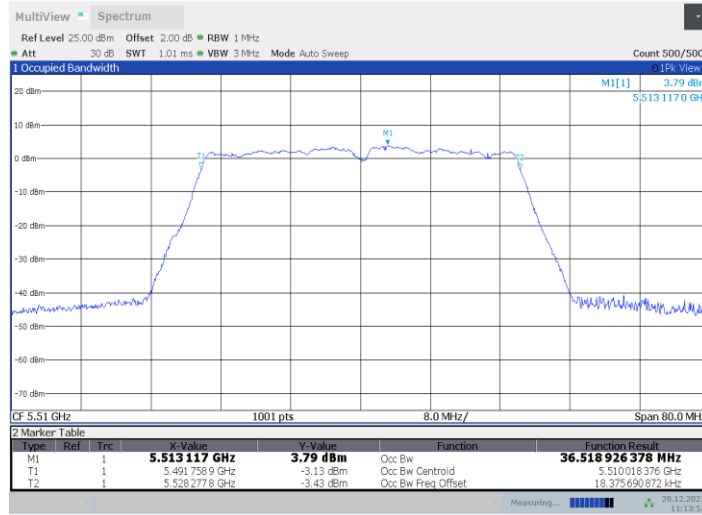
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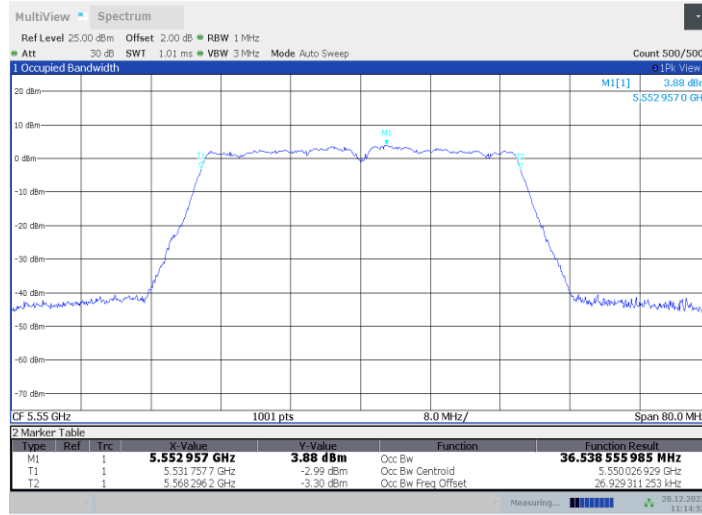
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11ac40SISO Ant6 5510



11:13:53 28.12.2022

11ac40SISO Ant6 5550



11:14:52 28.12.2022

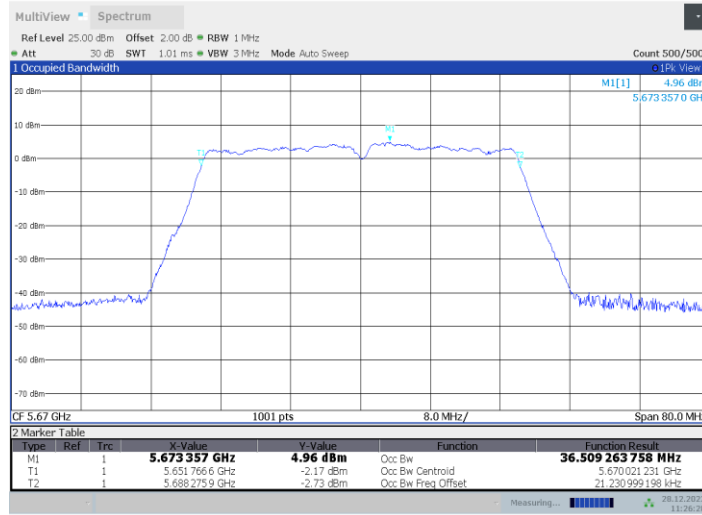


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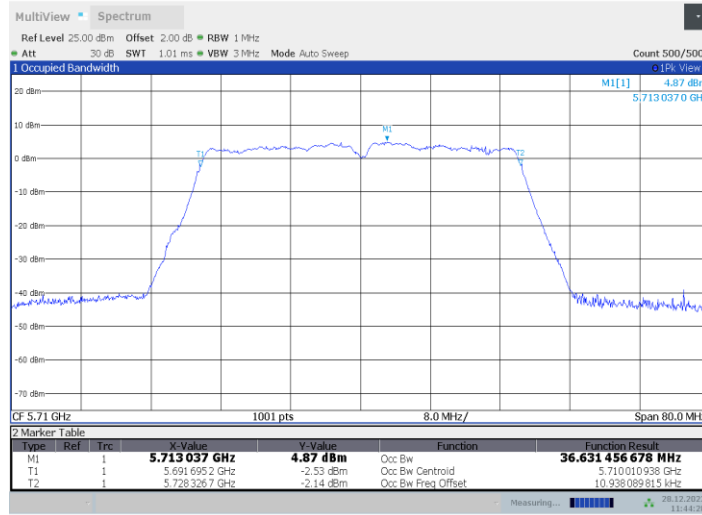
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11ac40SISO Ant6 5670



11:26:29 28.12.2022

11ac40SISO Ant6 5710



11:44:29 28.12.2022



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11:49:19 28.12.2022

11ac40SISO Ant6 5795



11:50:55 28.12.2022



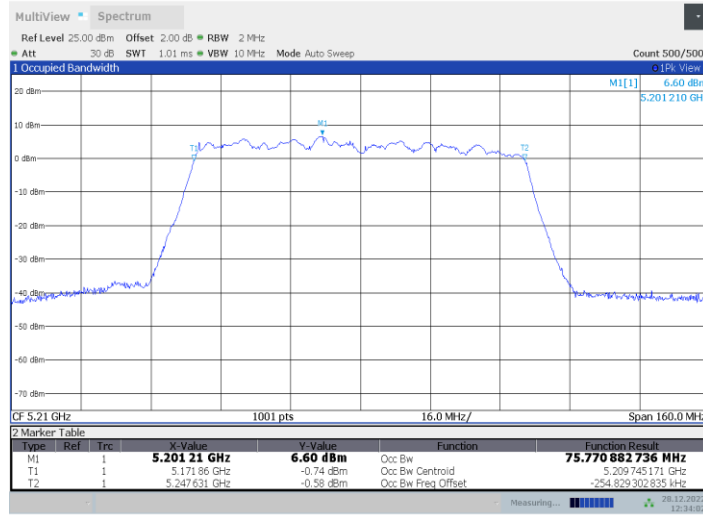
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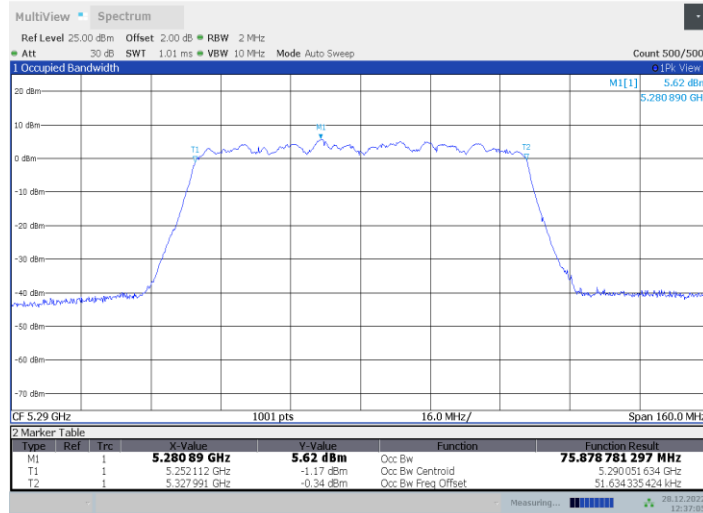
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11ac80SISO Ant6 5210



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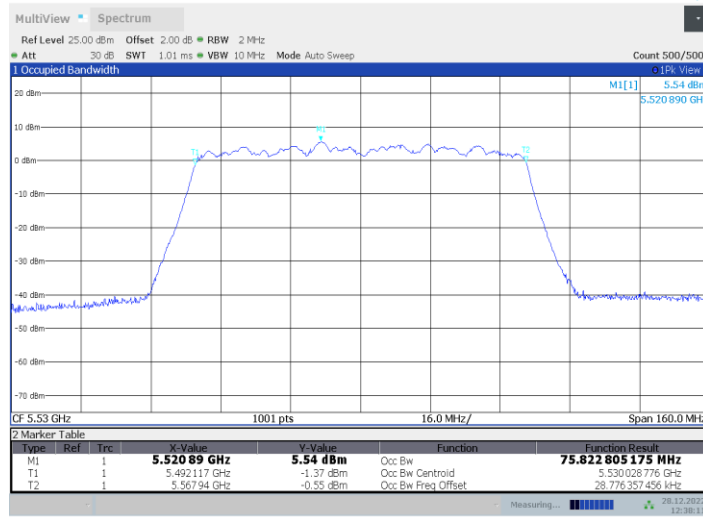


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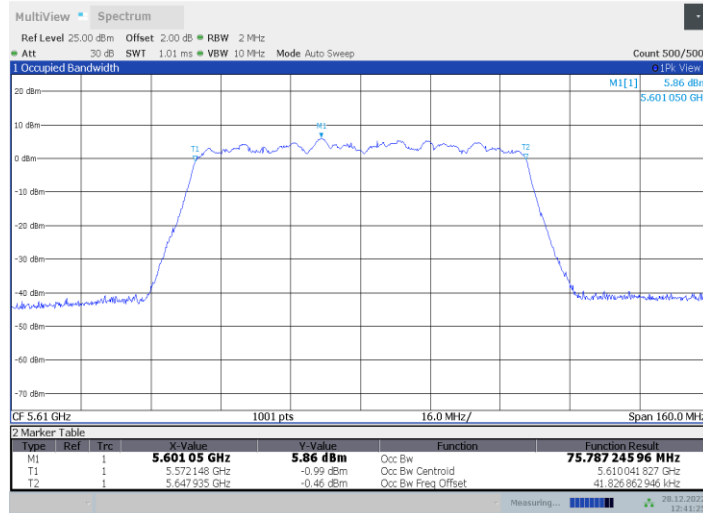
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11ac80SISO Ant6 5530



12:38:12 28.12.2022

11ac80SISO Ant6 5610



12:41:26 28.12.2022

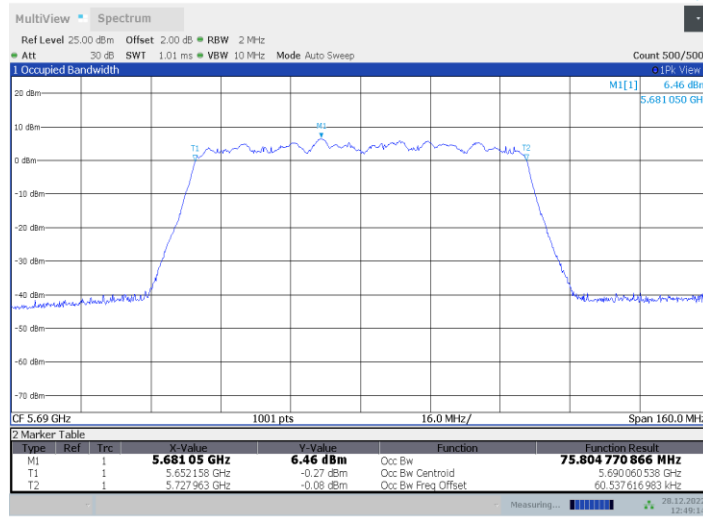


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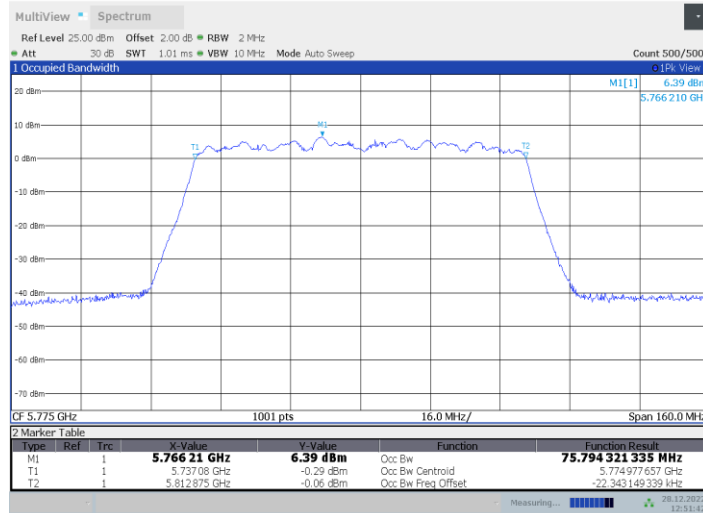
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11ac80SISO Ant6 5690



12:49:14 28.12.2022

11ac80SISO Ant6 5775



12:51:42 28.12.2022



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**6dB emission bandwidth  
Test Result B4**

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant6	5745	15.40	5737.16	5752.56	≥0.5	PASS
		5785	14.56	5778.04	5792.60	≥0.5	PASS
		5825	14.52	5818.04	5832.56	≥0.5	PASS
11ac20SISO	Ant6	5745	16.00	5736.52	5752.52	≥0.5	PASS
		5785	16.88	5776.52	5793.40	≥0.5	PASS
		5825	15.00	5817.76	5832.76	≥0.5	PASS
11ac40SISO	Ant6	5755	36.56	5736.68	5773.24	≥0.5	PASS
		5795	34.40	5777.96	5812.36	≥0.5	PASS
11ac80SISO	Ant6	5775	75.52	5737.24	5812.76	≥0.5	PASS

**Straddle Channel**

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant6	5720 UNII-3	1.92	5725	5726.92	≥0.5	PASS
11ac20SISO	Ant6	5720 UNII-3	3.16	5725	5728.16	≥0.5	PASS
11ac40SISO	Ant6	5710 UNII-3	2.60	5725	5727.60	≥0.5	PASS
11ac80SISO	Ant6	5690 UNII-3	2.76	5725	5727.76	≥0.5	PASS

**Remark:**

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.



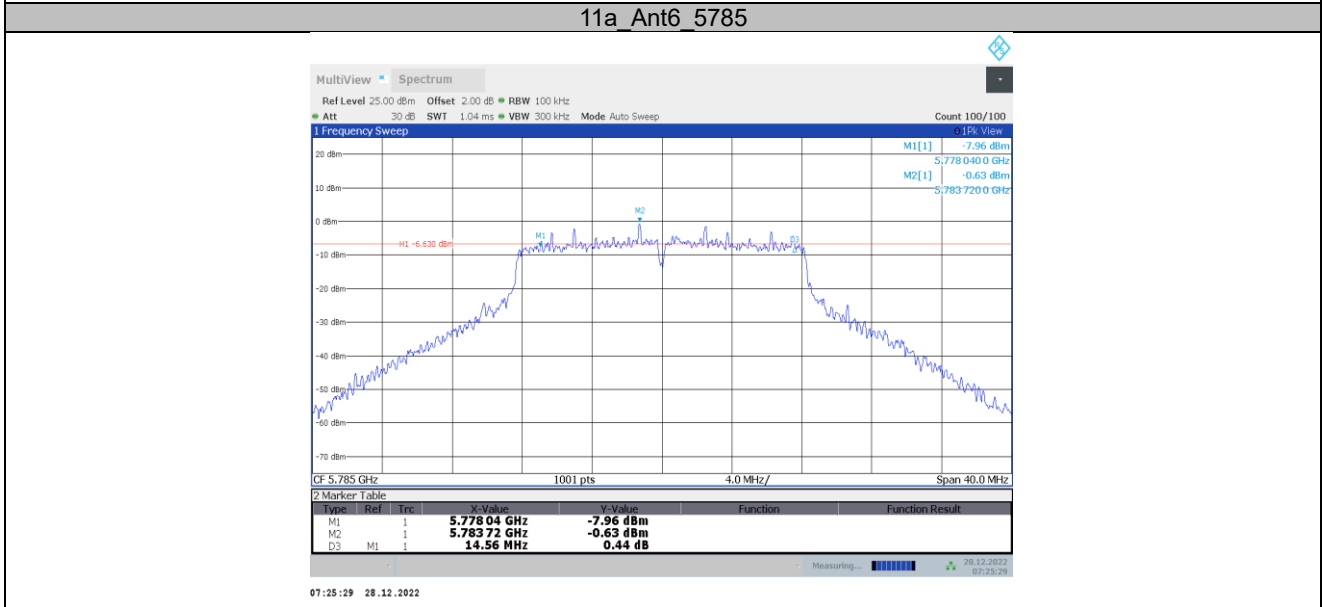
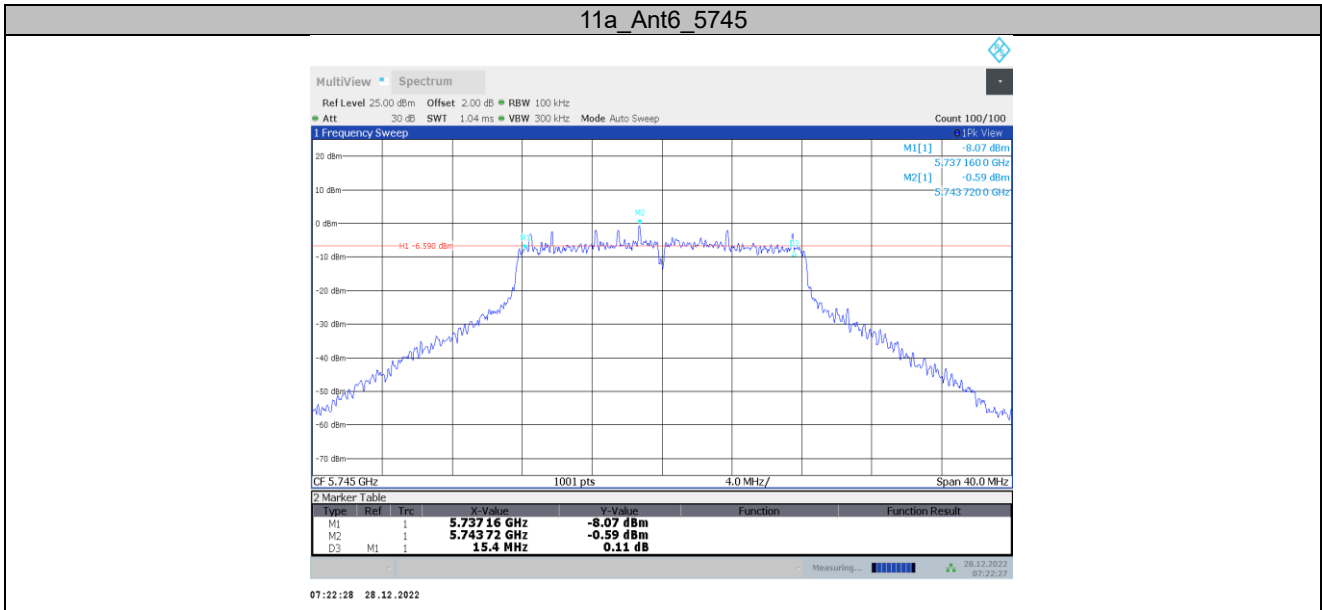
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Test Graphs B4

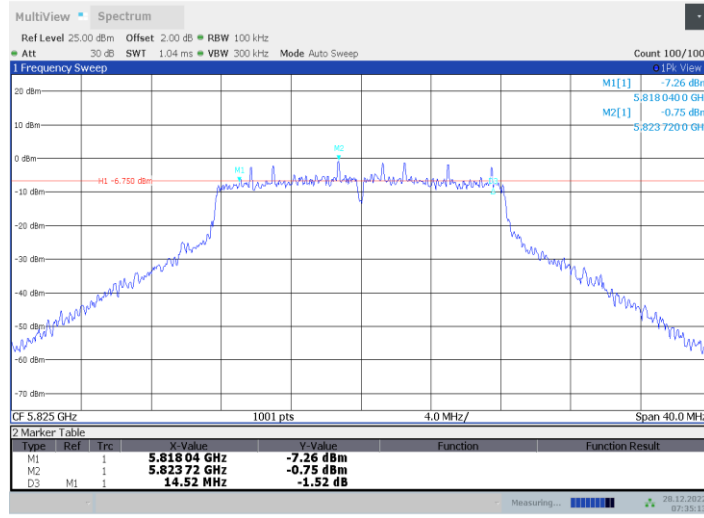


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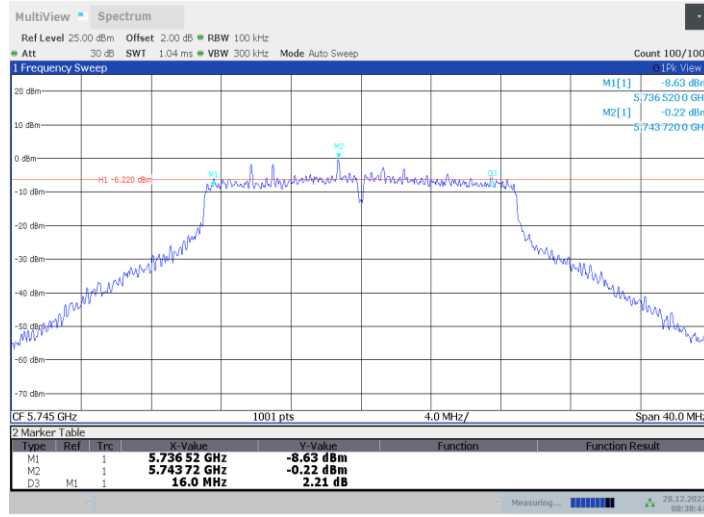
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11a\_Ant6\_5825



07:35:14 28.12.2022

11ac20SISO\_Ant6\_5745



08:38:44 28.12.2022

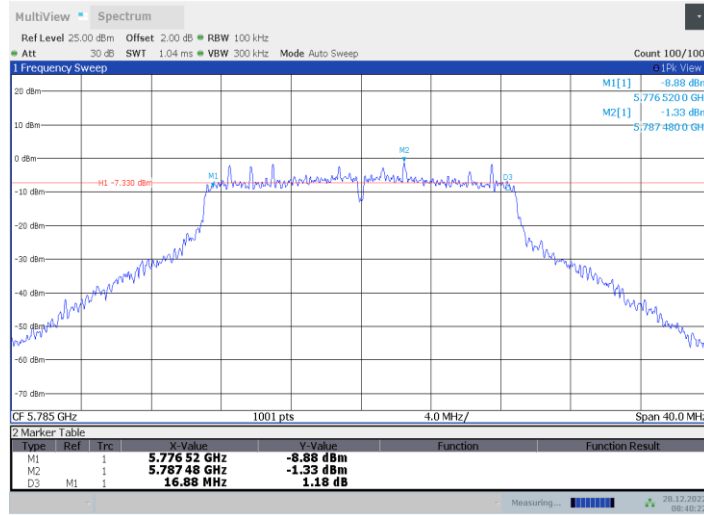


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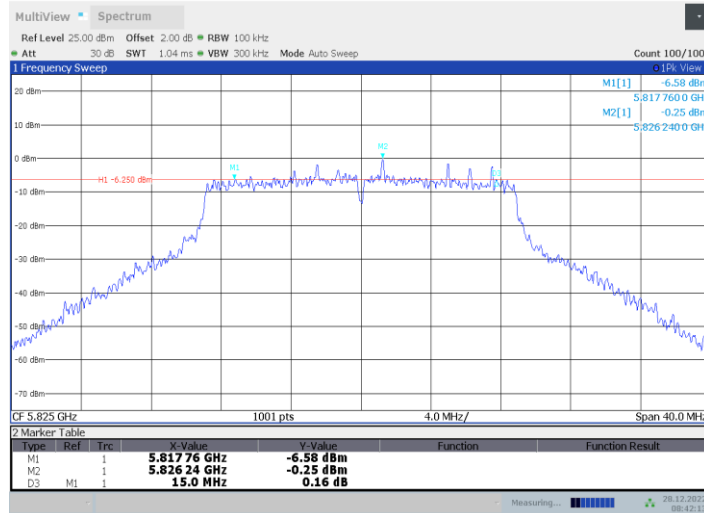
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11ac20SISO Ant6 5785



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08:42:14 28.12.2022



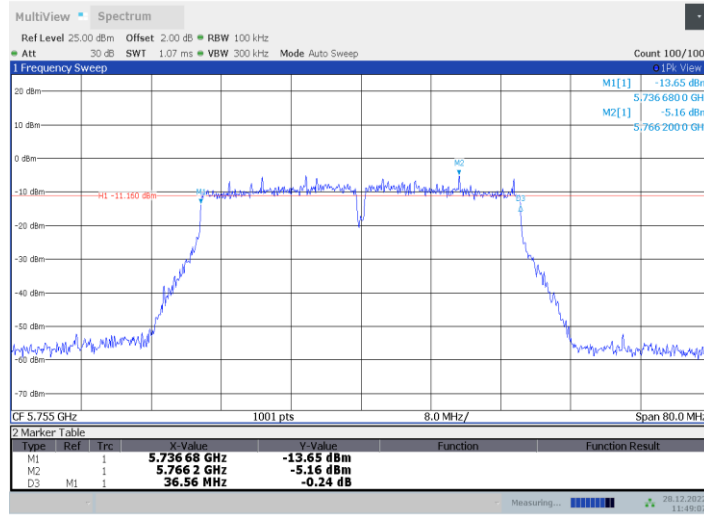
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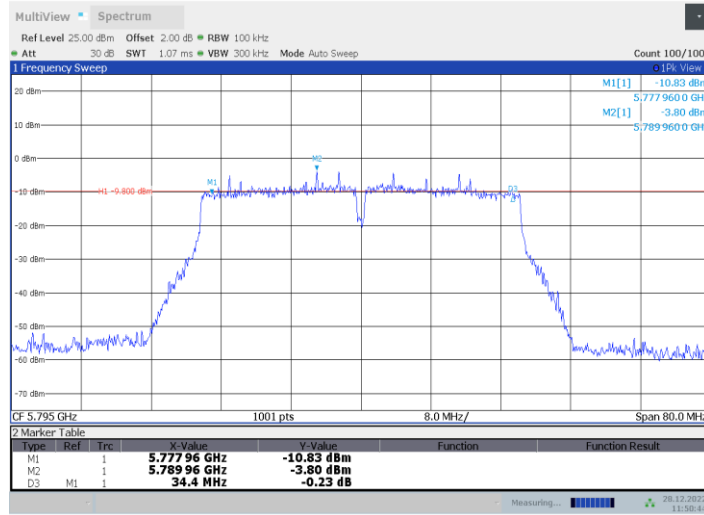
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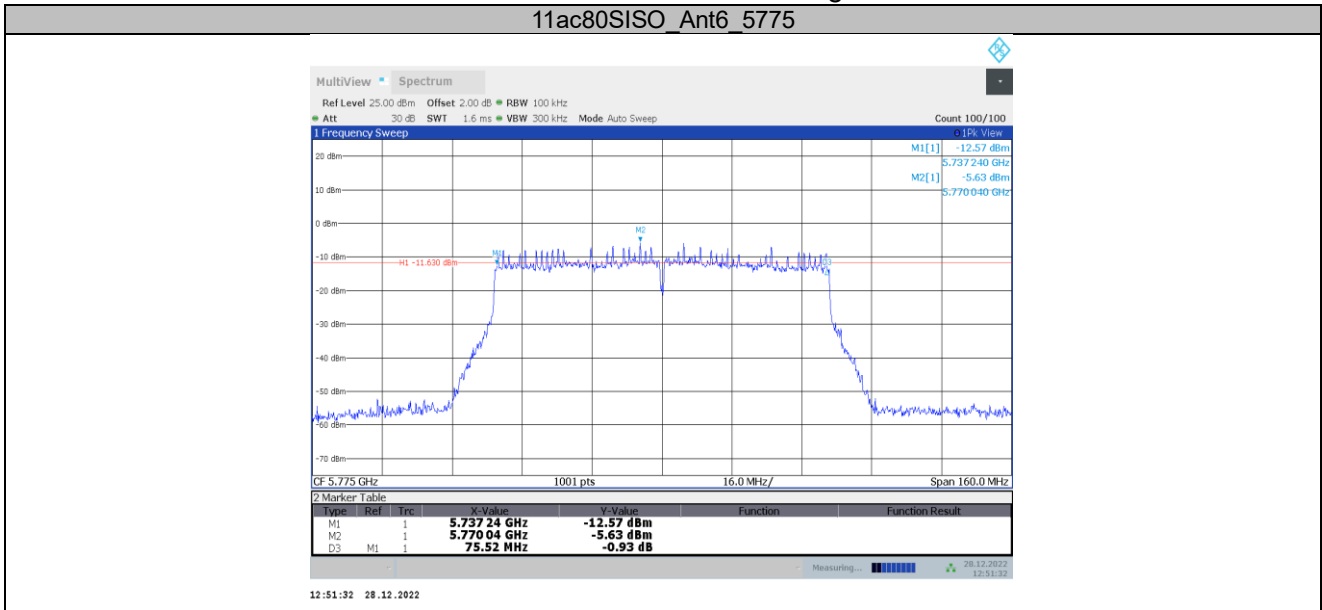
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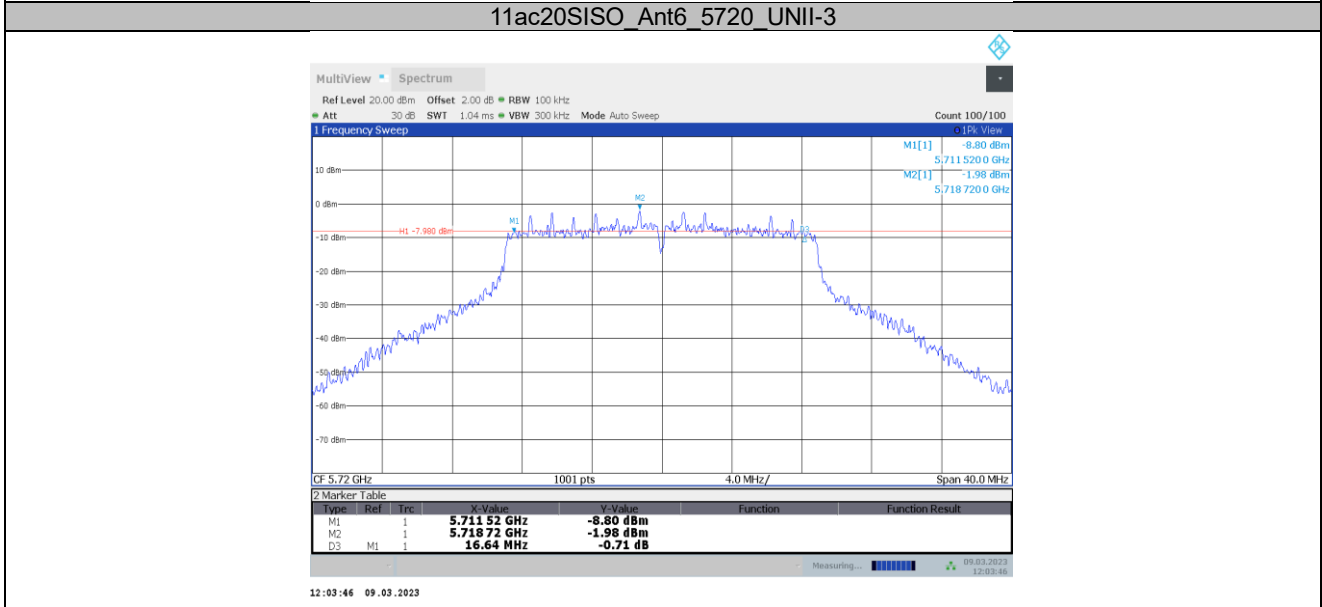
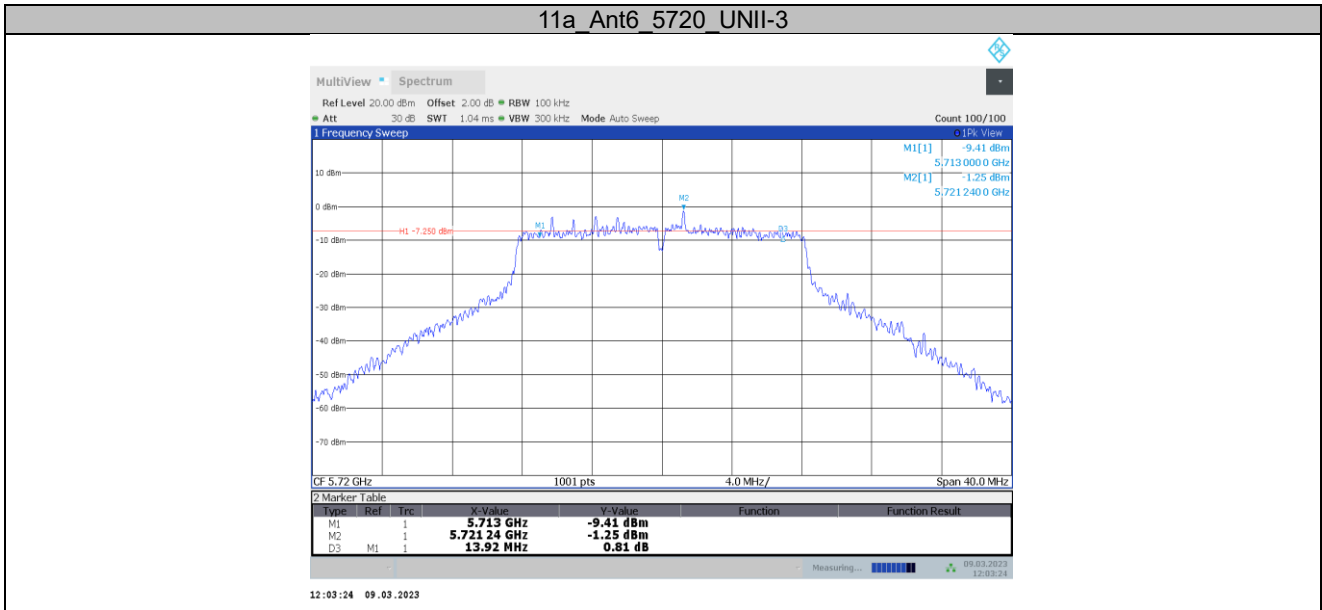
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Straddle Channel

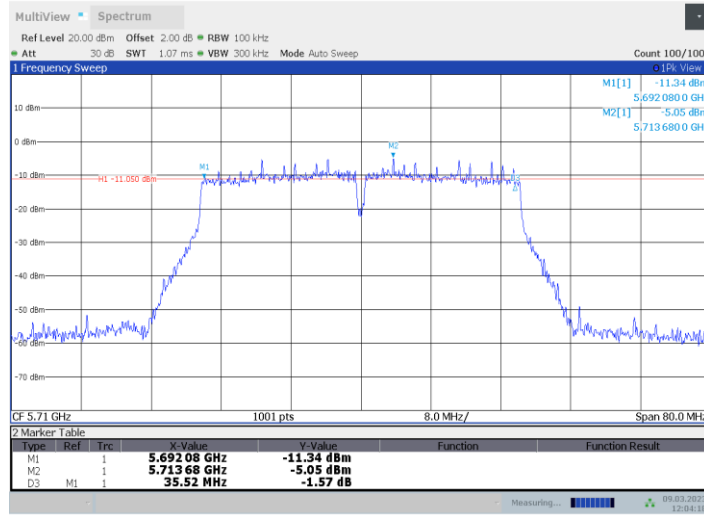


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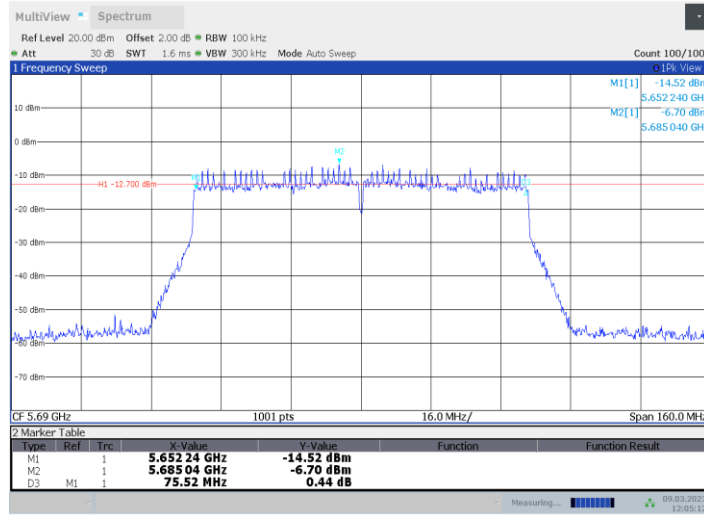
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11ac40SISO Ant6\_5710 UNII-3



12:04:18 09.03.2023

11ac80SISO Ant6\_5690 UNII-3



12:05:12 09.03.2023



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**Duty Cycle  
Test Result**

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11a	Ant6	5180	1.40	1.49	93.96
11n20SISO	Ant6	5180	1.31	1.40	93.57
11n40SISO	Ant6	5190	0.95	1.04	91.35
11ac20SISO	Ant6	5180	1.31	1.41	92.91
11ac40SISO	Ant6	5190	0.95	1.05	90.48
11ac80SISO	Ant6	5210	1.16	1.25	92.80

**Note:**

Radiated Emission VBW = 1 / T

11a (VBW) = 1/1.40=1kHz

11n20SISO (VBW) = 1/1.31=1kHz

11n40SISO (VBW) = 1/0.95=3kHz

11ac20SISO (VBW) = 1/1.31=1kHz

11ac40SISO (VBW) = 1/0.95=3kHz

11ac80SISO (VBW) = 1/1.16=1kHz



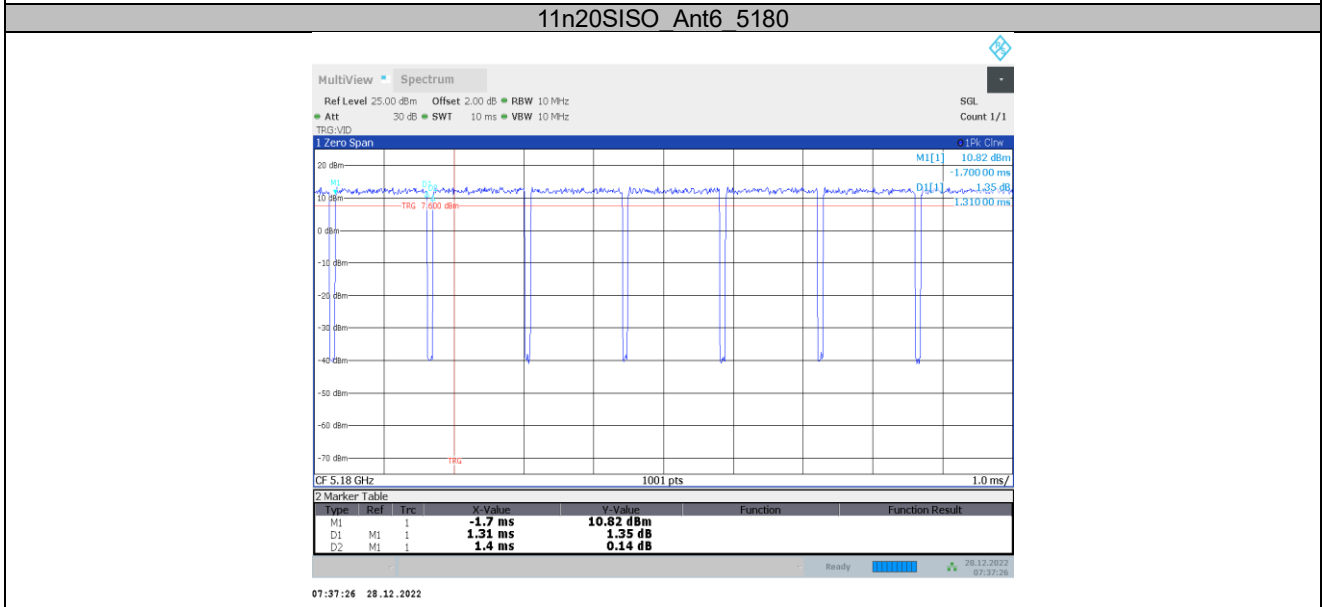
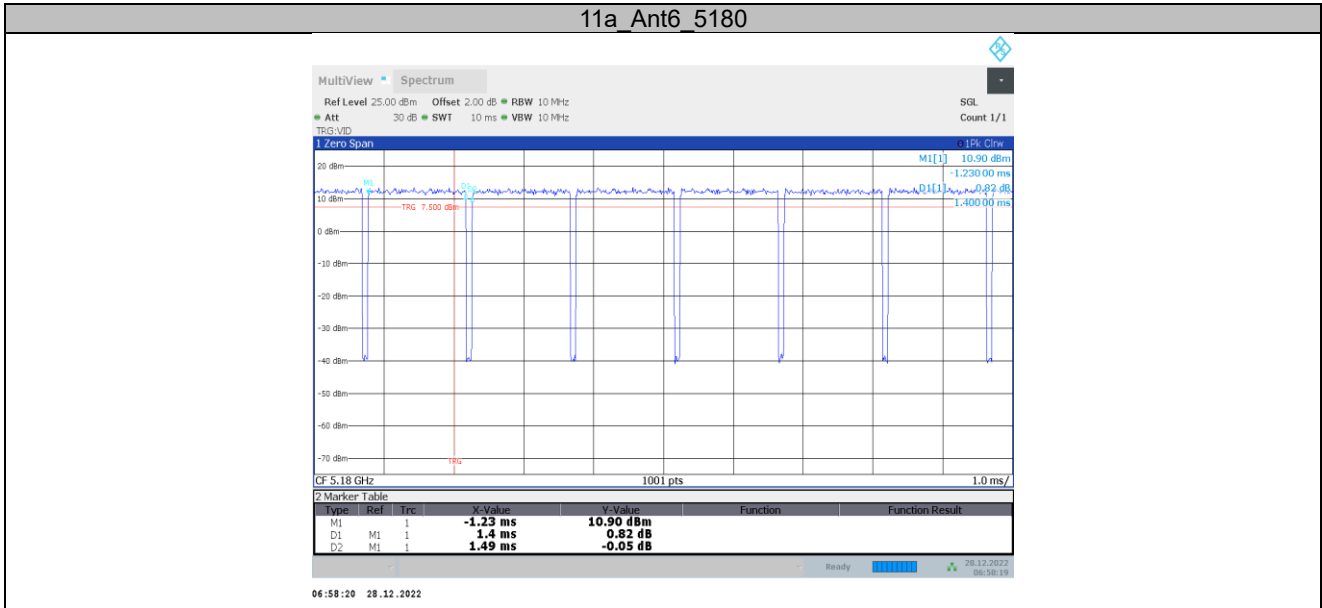
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Test Graphs

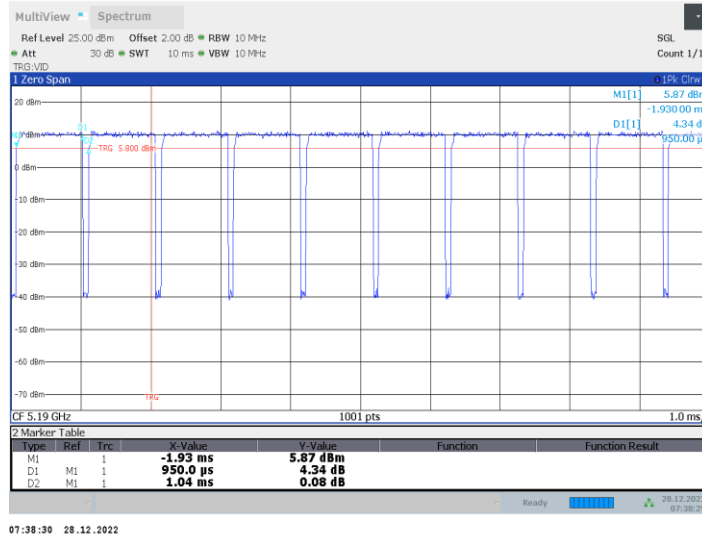


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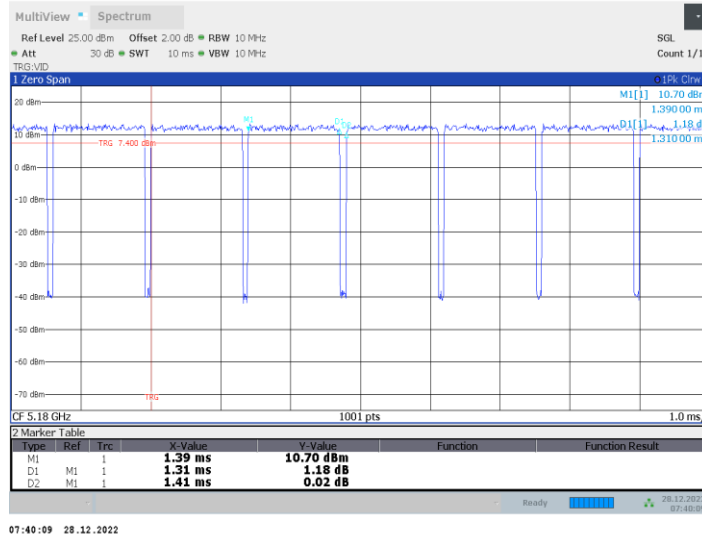
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11n40SISO Ant6 5190



07:38:30 28.12.2022

11ac20SISO Ant6 5180



07:40:09 28.12.2022



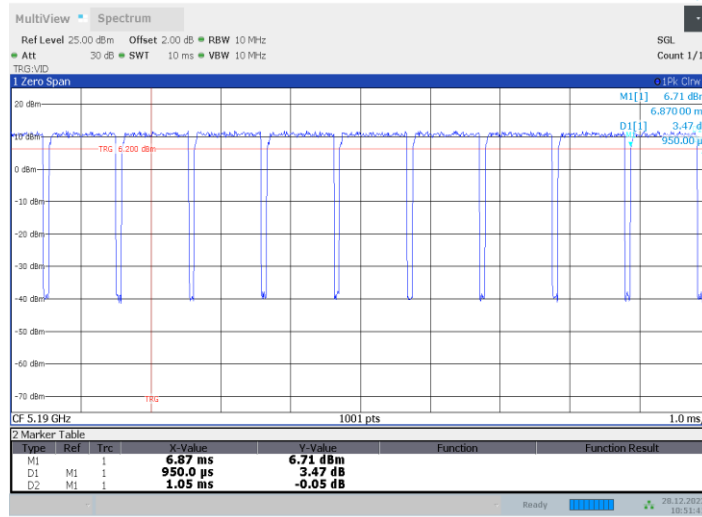
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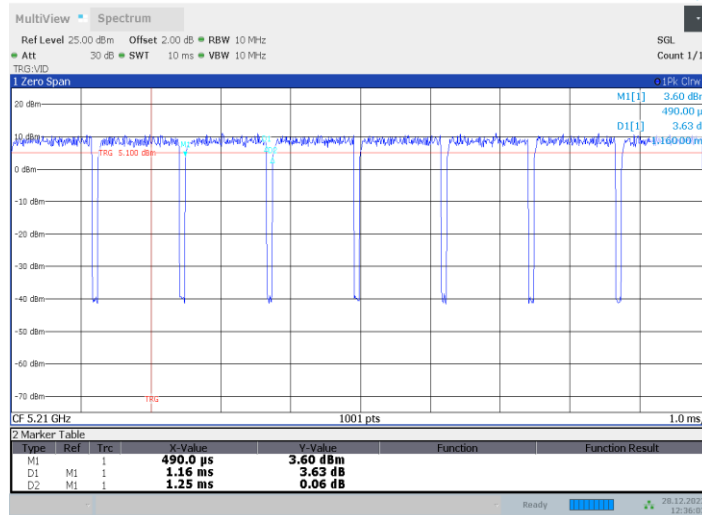
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11ac40SISO Ant6 5190



10:51:42 28.12.2022

11ac80SISO Ant6 5210



12:36:04 28.12.2022



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**Maximum conducted output power  
Test Result Average**

For PY7-51629L(Parent model) data:

TestMode	Antenna	Channel	Result[dBm]
11a	Ant6	5180	9.39
		5220	9.46
		5240	9.37
		5260	9.33
		5300	9.32
		5320	9.19
		5500	8.66
		5580	9.16
		5700	9.91
		5720	9.93
		5745	9.89
		5785	9.73
		5825	9.47
11n20SISO	Ant6	5180	9.26
		5220	9.23
		5240	9.18
		5260	9.21
		5300	9.15
		5320	9.01
		5500	8.56
		5580	9.06
		5700	9.75
		5720	9.84
		5745	9.76
		5785	9.61
		5825	9.33
11n40SISO	Ant6	5190	9.62
		5230	9.56
		5270	9.64
		5310	9.74
		5510	9.09
		5550	9.37
		5670	9.86
		5710	9.81
		5755	9.71
		5795	9.73
11ac20SISO	Ant6	5180	9.19
		5220	9.29
		5240	9.03
		5260	9.24
		5300	9.31
		5320	9.14
		5500	8.46
		5580	9.02
		5700	9.81
		5720	9.94
		5745	9.79
		5785	9.56
		5825	9.42
11ac40SISO	Ant6	5190	9.76



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Report No.: SEWM2212000309RG05

Rev.: 02

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		5230	9.56
		5270	9.62
		5310	9.82
		5510	9.06
		5550	9.31
		5670	9.91
		5710	9.87
		5755	9.83
		5795	9.8
11ac80SISO	Ant6	5210	9.53
		5290	9.34
		5530	9.06
		5610	9.36
		5690	9.91
		5775	9.93

**For PY7-97087H (this model) of the Spot check:**

TestMode	Antenna	Channel	Result[dBm]
11ac40SISO	Ant6	5190	9.63



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**Maximum power spectral density  
Test Result**

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict		
11a	Ant6	5180	-1.64	≤11.00	PASS		
		5220	-1.46	≤11.00	PASS		
		5240	-1.88	≤11.00	PASS		
		5260	-1.95	≤11.00	PASS		
		5300	-2.1	≤11.00	PASS		
		5320	-2.32	≤11.00	PASS		
		5500	-2.52	≤11.00	PASS		
		5580	-2.14	≤11.00	PASS		
		5700	-1.21	≤11.00	PASS		
		5720 UNII-2C	-1.31	≤11.00	PASS		
		5720 UNII-3	-5.66	≤30.00	PASS		
		5745	-4.12	≤30.00	PASS		
		5785	-4.25	≤30.00	PASS		
		5825	-4.36	≤30.00	PASS		
11ac20SISO	Ant6	5180	-2.09	≤11.00	PASS		
		5220	-1.97	≤11.00	PASS		
		5240	-2.47	≤11.00	PASS		
		5260	-2.56	≤11.00	PASS		
		5300	-2.76	≤11.00	PASS		
		5320	-2.7	≤11.00	PASS		
		5500	-2.45	≤11.00	PASS		
		5580	-2.26	≤11.00	PASS		
		5700	-1.23	≤11.00	PASS		
		5720 UNII-2C	-1.29	≤11.00	PASS		
		5720 UNII-3	-5.53	≤30.00	PASS		
		5745	-4.02	≤30.00	PASS		
		5785	-3.76	≤30.00	PASS		
		5825	-4.22	≤30.00	PASS		
11ac40SISO	Ant6	5190	-3.97	≤11.00	PASS		
		5230	-4.34	≤11.00	PASS		
		5270	-4.87	≤11.00	PASS		
		5310	-4.91	≤11.00	PASS		
		5510	-5.06	≤11.00	PASS		
		5550	-5	≤11.00	PASS		
		5670	-4.1	≤11.00	PASS		
		5710 UNII-2C	-3.91	≤11.00	PASS		
		5710 UNII-3	-8.43	≤30.00	PASS		
		5755	-6.72	≤30.00	PASS		
		5795	-6.9	≤30.00	PASS		
		11ac80SISO	Ant6	5210	-7.69	≤11.00	PASS
				5290	-8.13	≤11.00	PASS
				5530	-8.26	≤11.00	PASS
5610	-8.06			≤11.00	PASS		
5690 UNII-2C	-7.45			≤11.00	PASS		
5690 UNII-3	-11.84			≤30.00	PASS		
5775	-10.26			≤30.00	PASS		

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Remark:

For 802.11n HT20/ac VHT20 and 802.11n HT40/ac VHT40 mode, the whole testing have assessed only, 802.11ac VHT20/40 by referring to their higher output power.

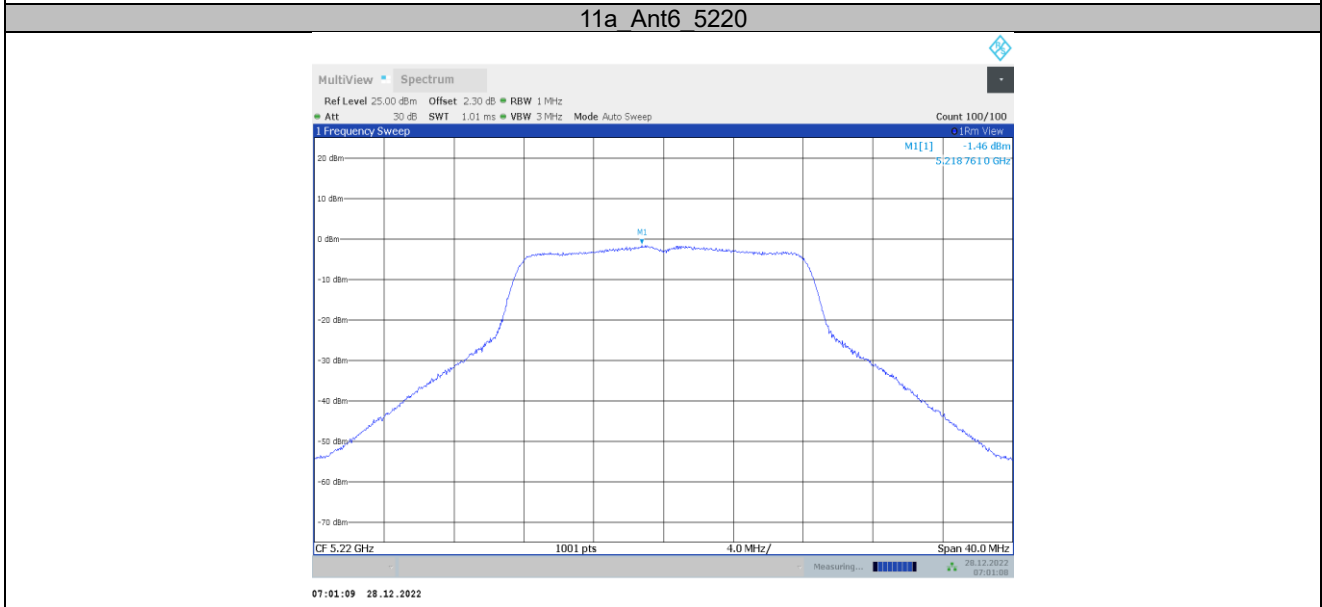
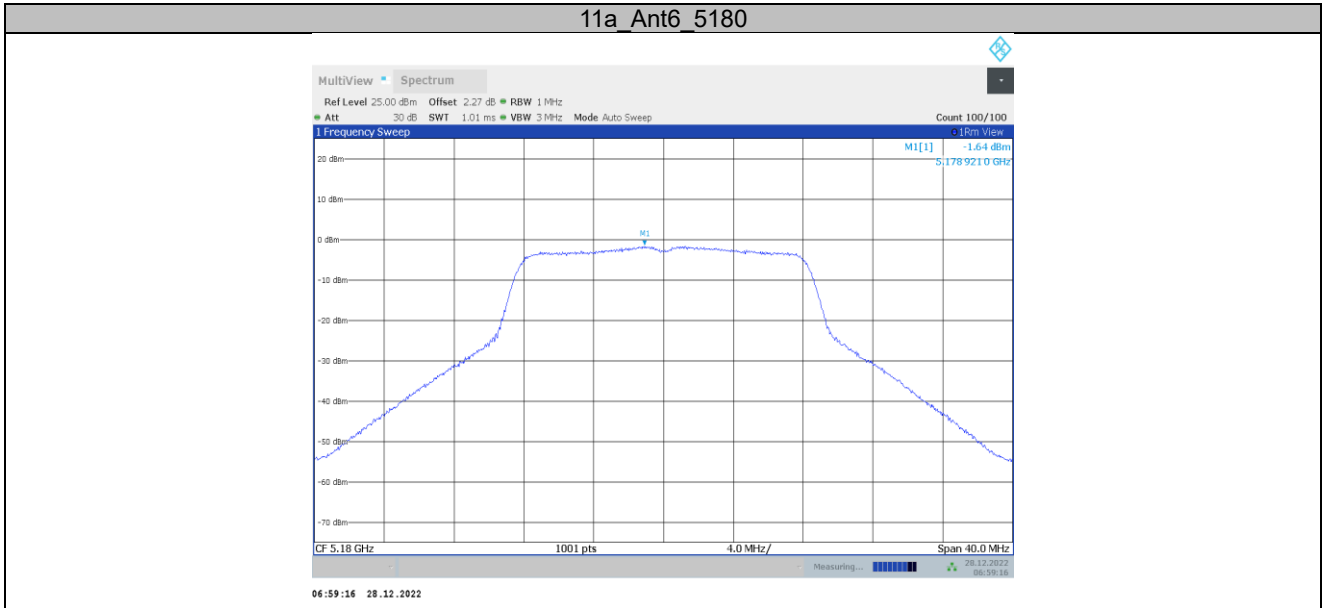


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Test Graphs

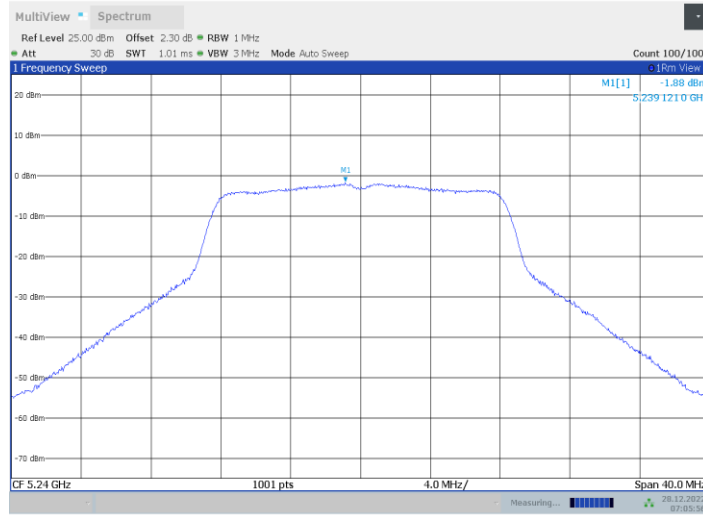


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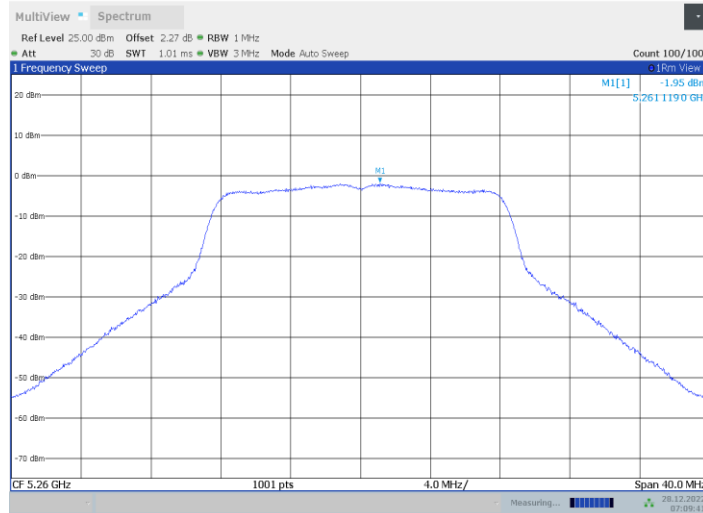
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11a Ant6 5240



07:05:57 28.12.2022

11a Ant6 5260



07:09:41 28.12.2022



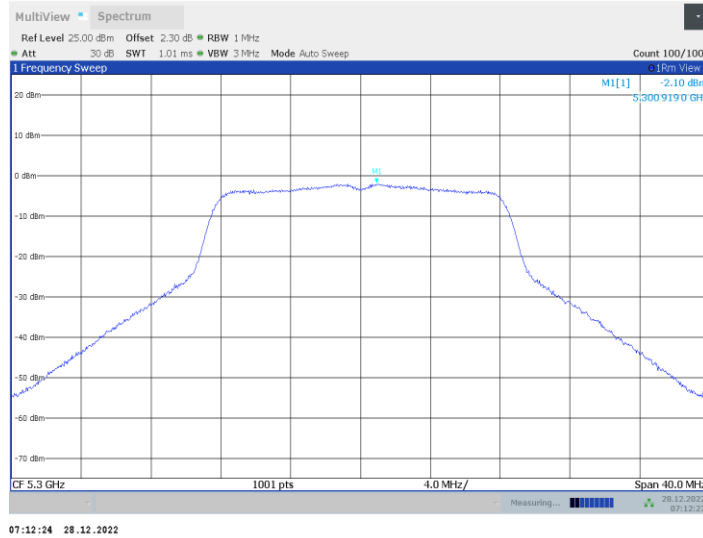
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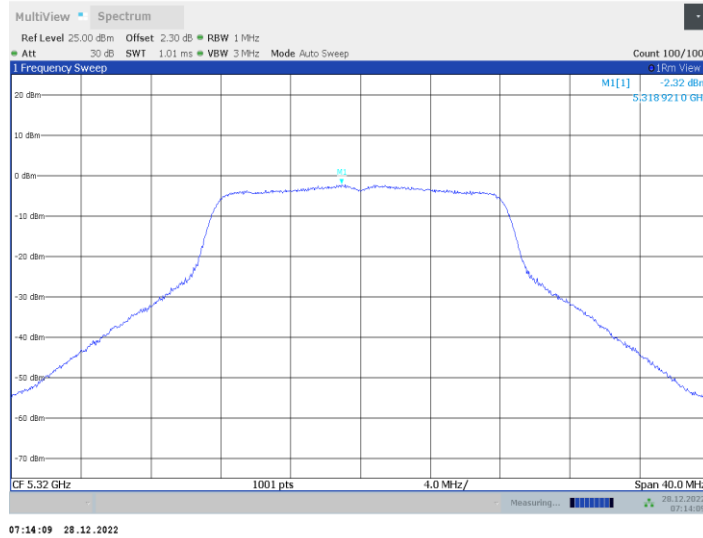


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11a Ant6 5320



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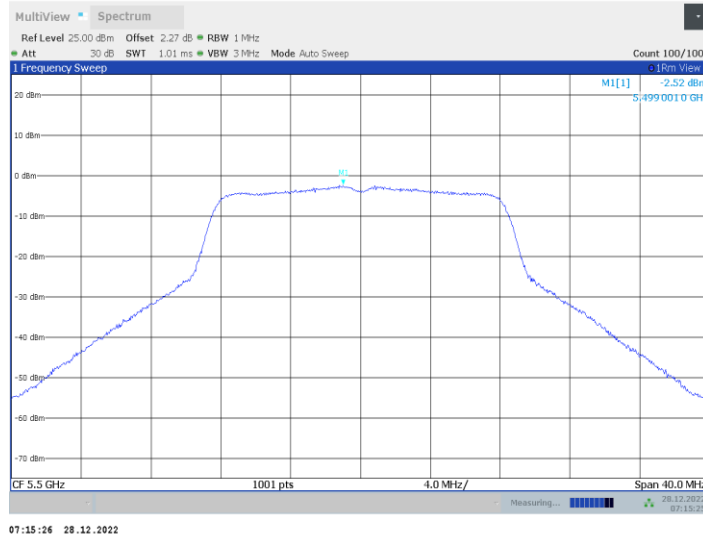
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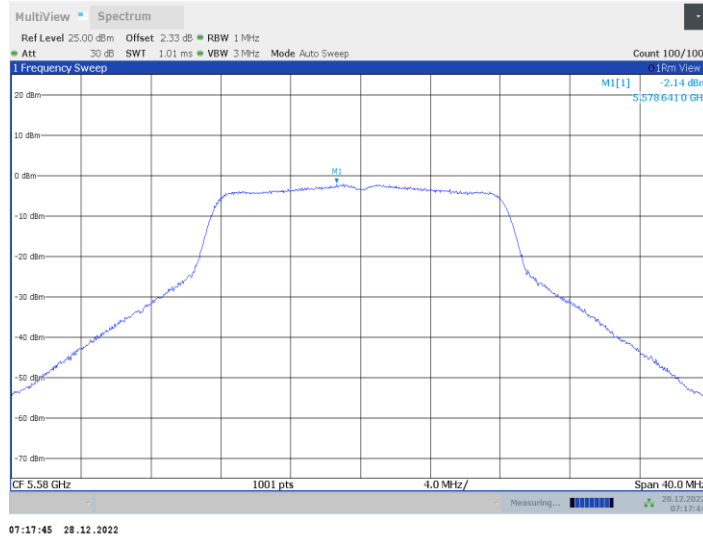
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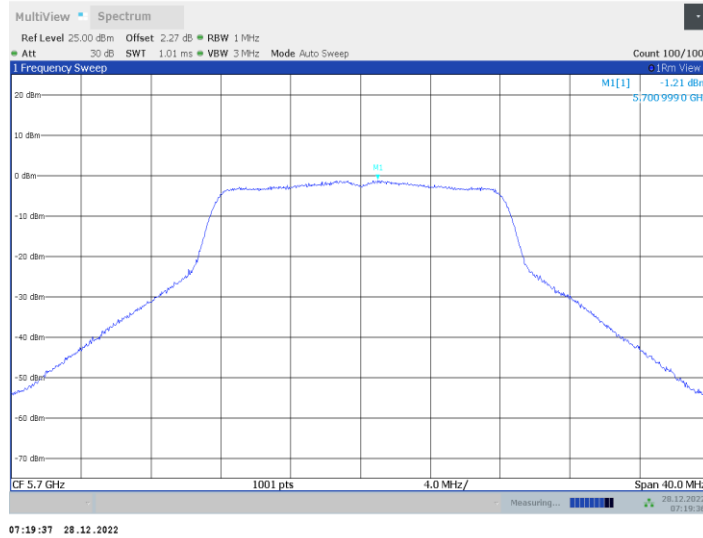
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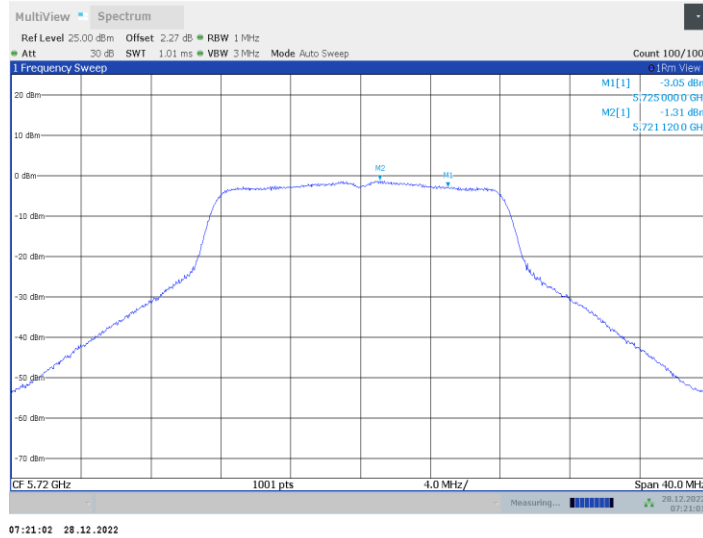
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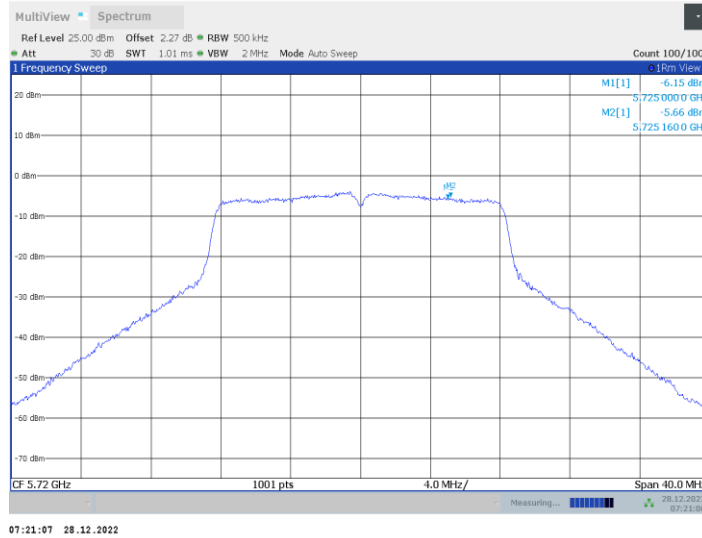
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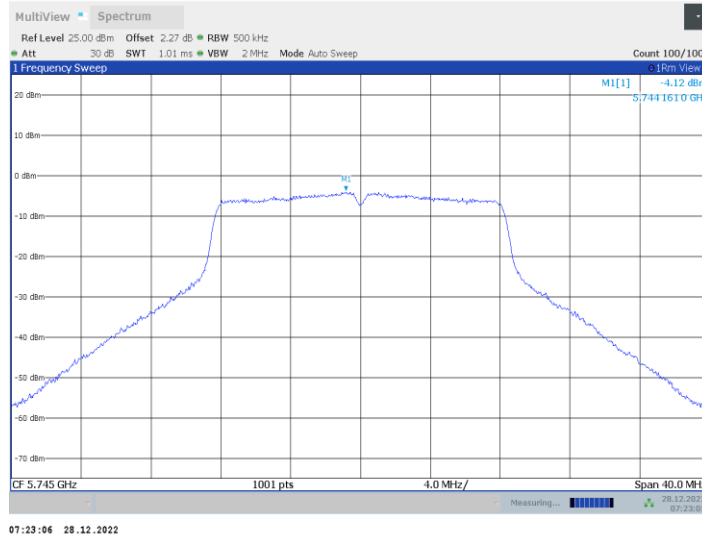
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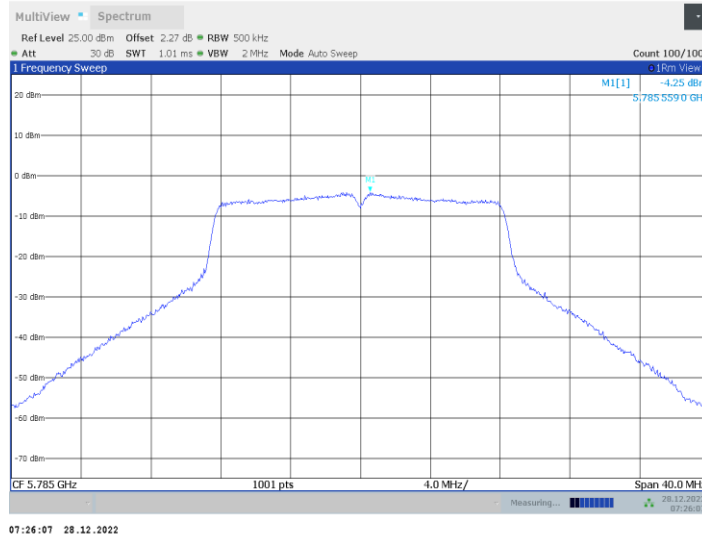
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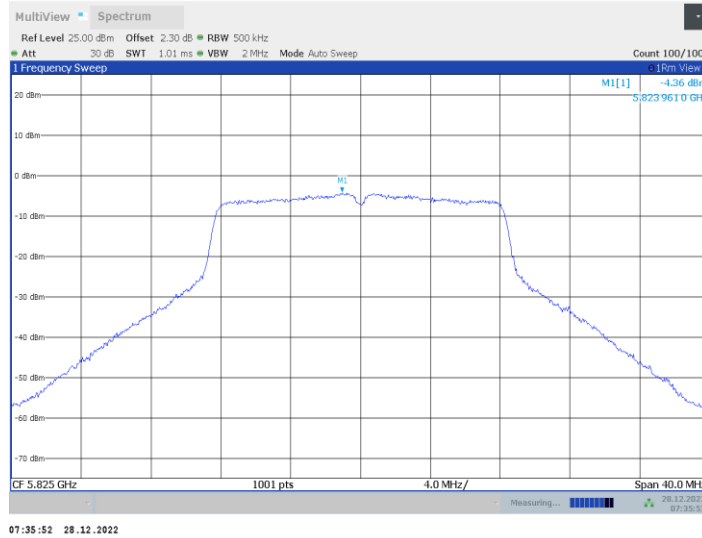
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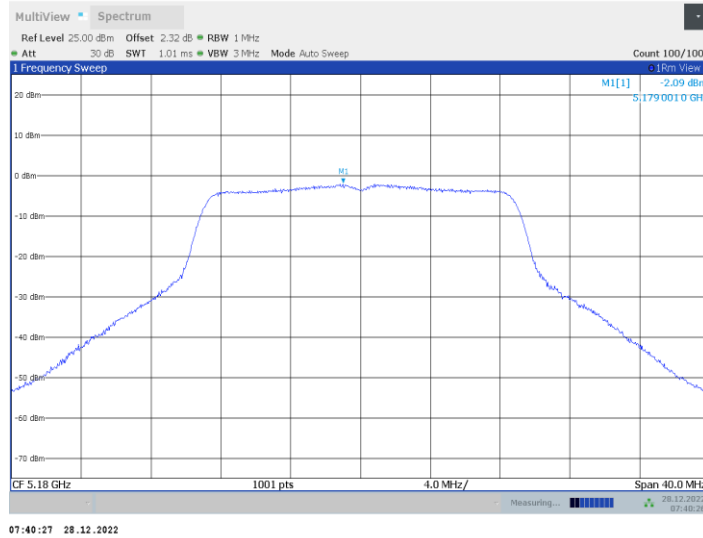
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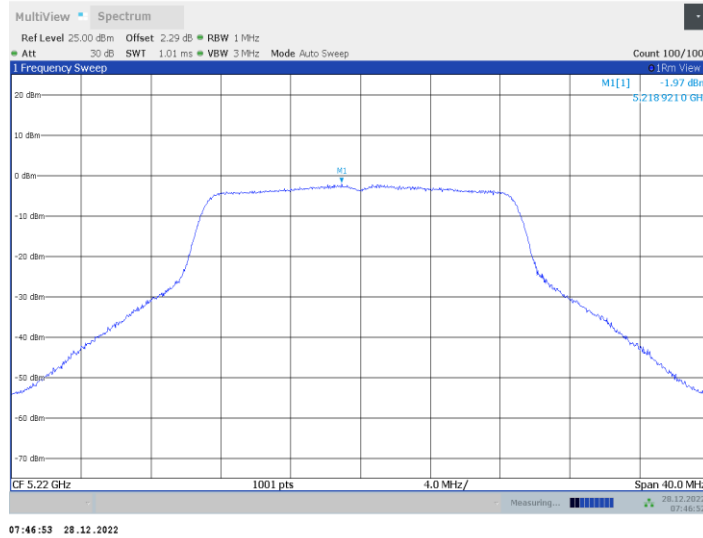
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11ac20SISO Ant6 5180



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11ac20SISO Ant6 5220



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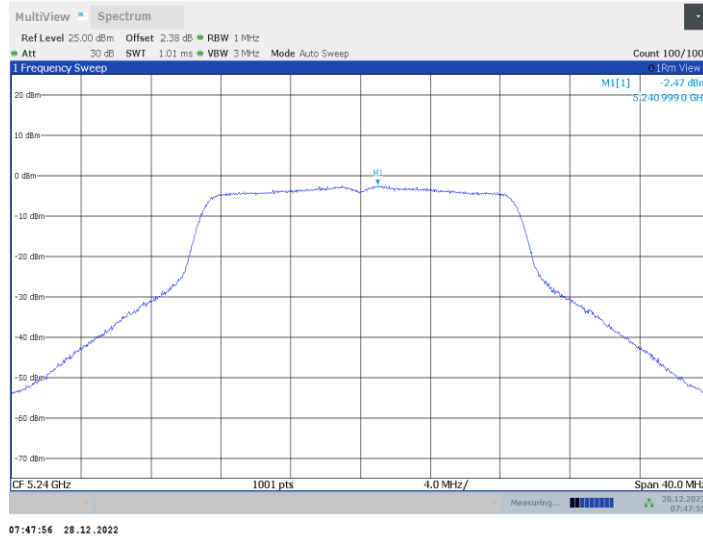


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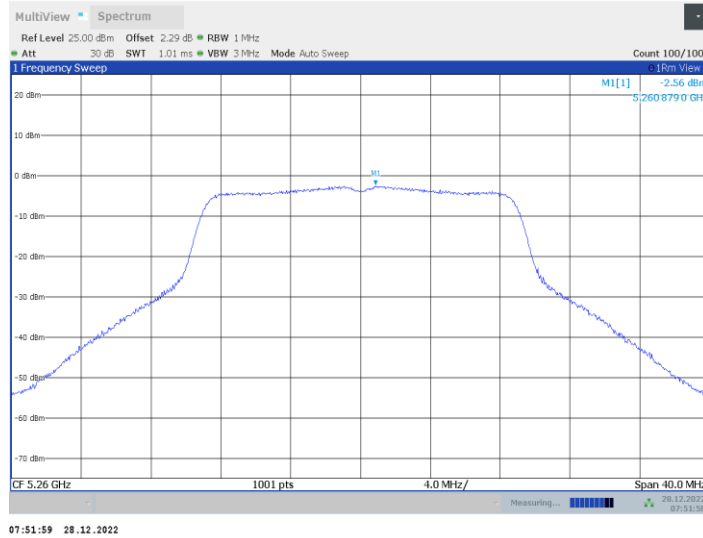
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07:47:56 28.12.2022

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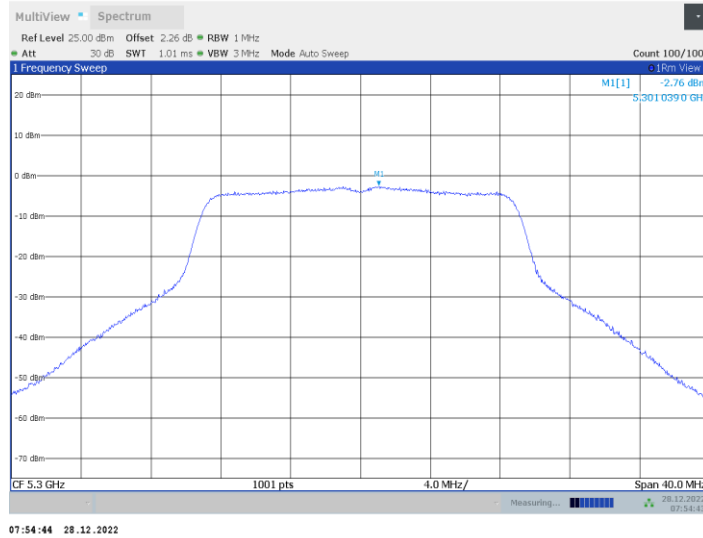
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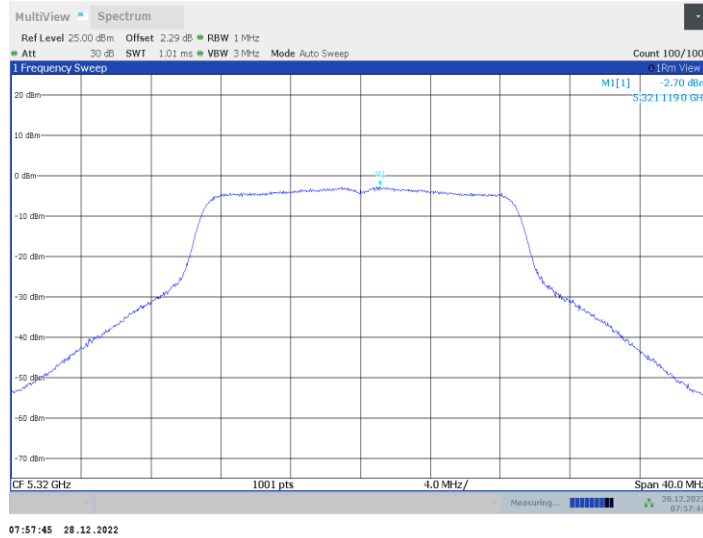
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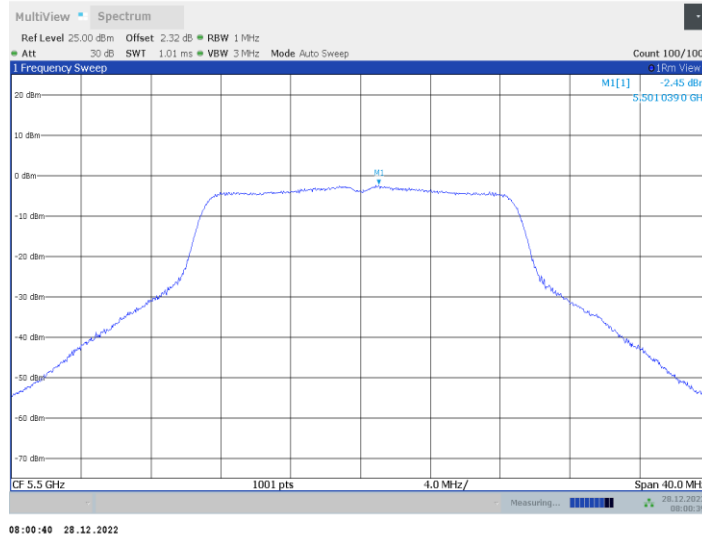
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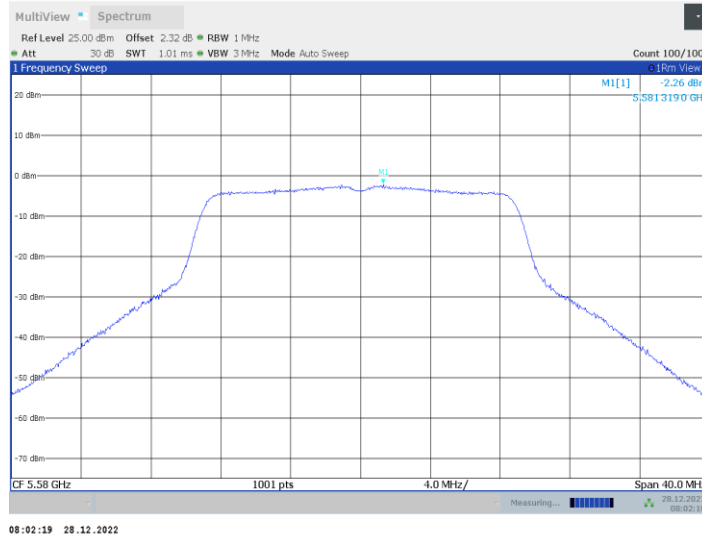


11ac20SISO Ant6 5500



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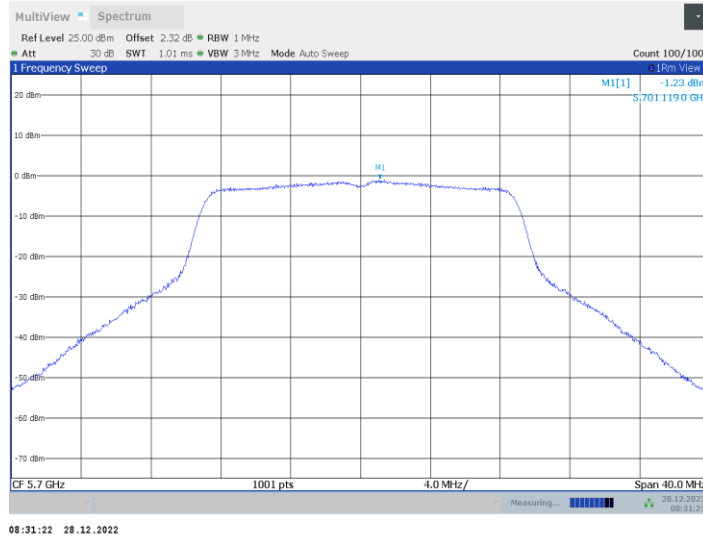
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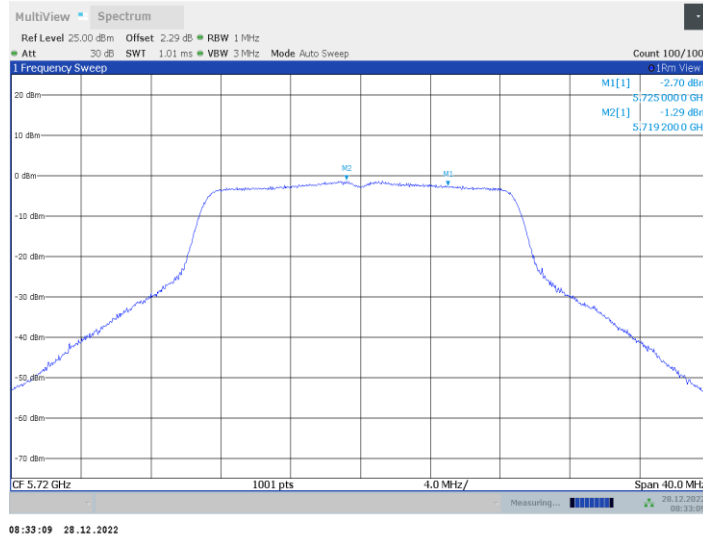
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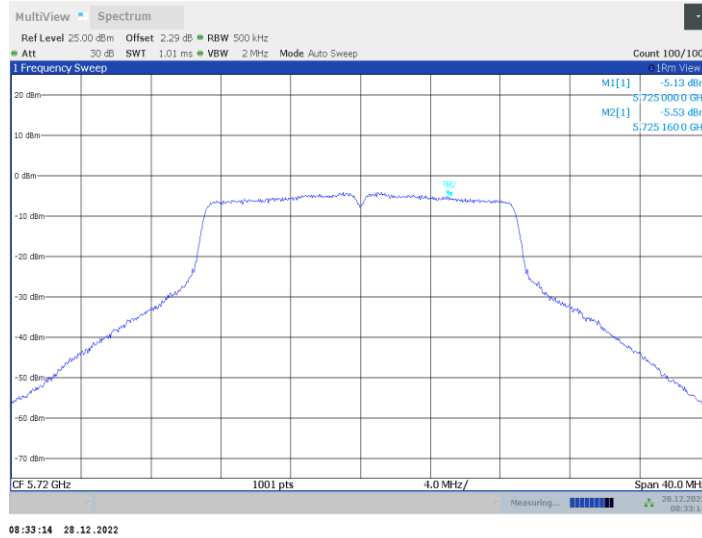
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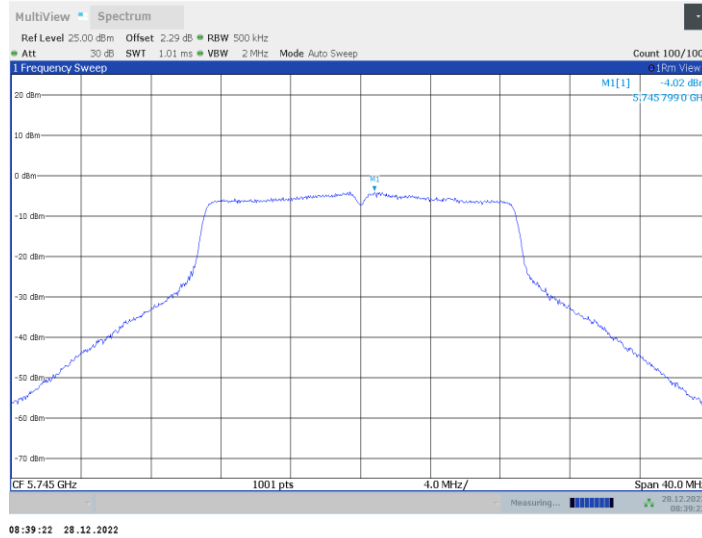
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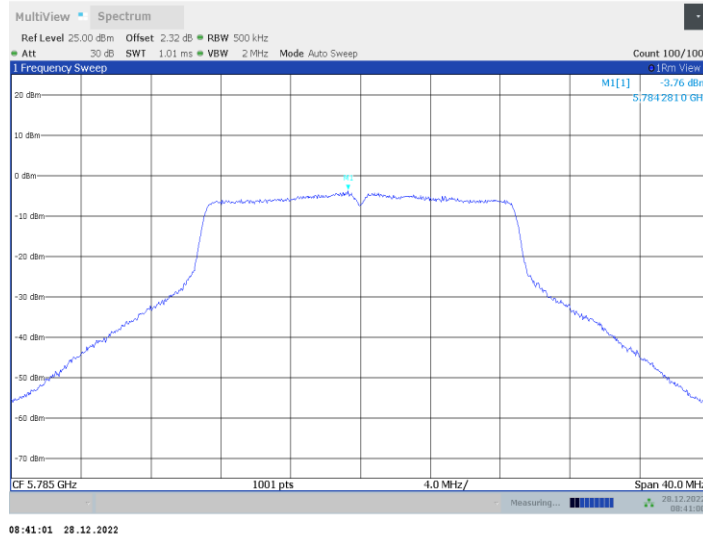
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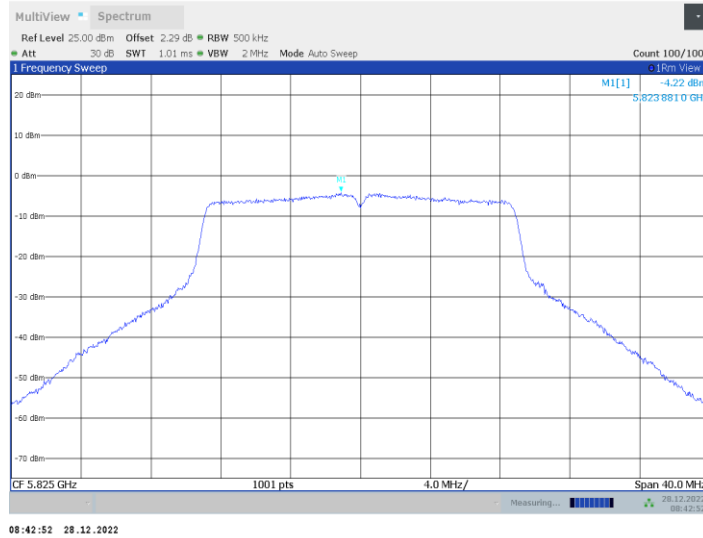
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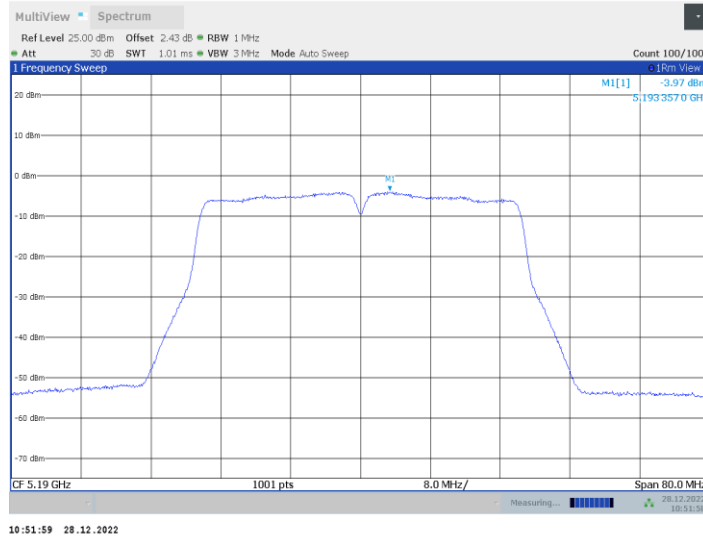


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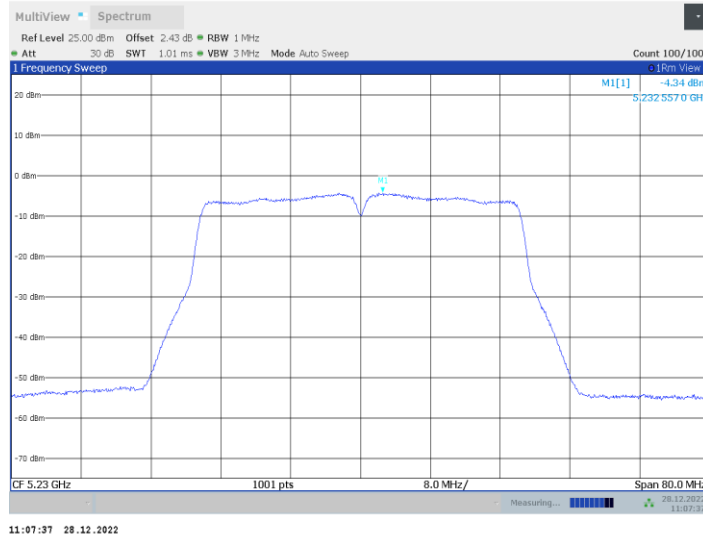
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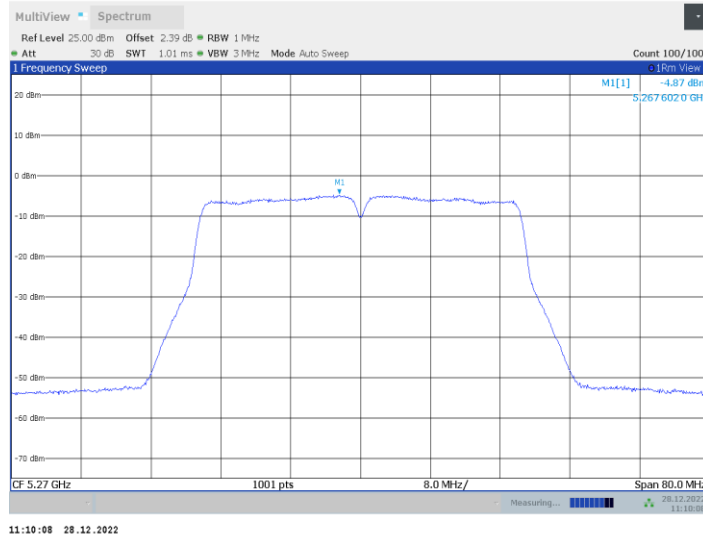
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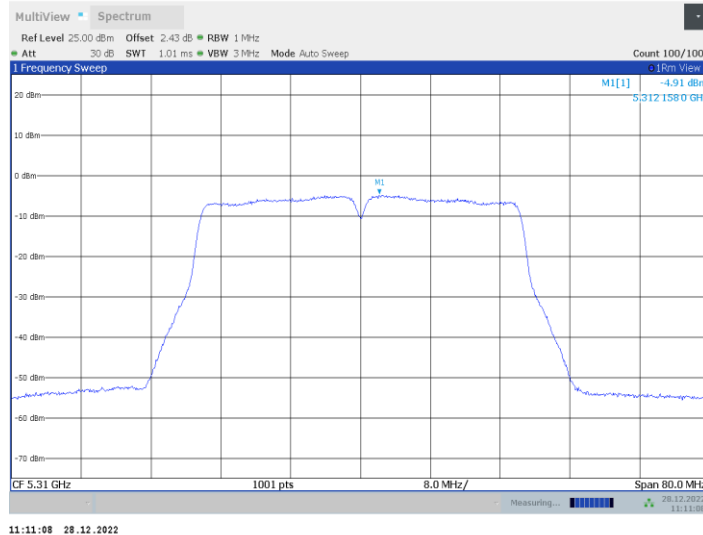
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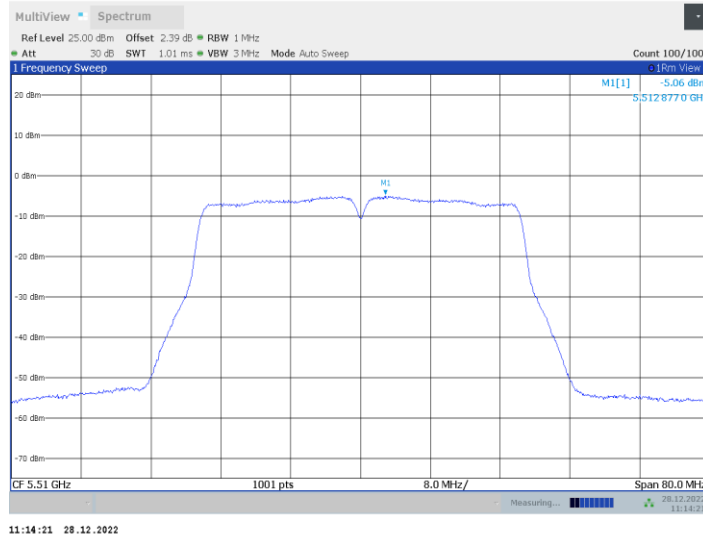


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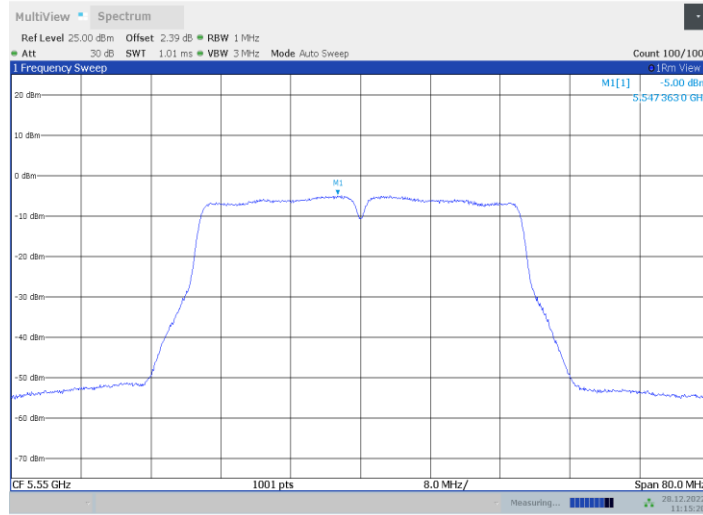
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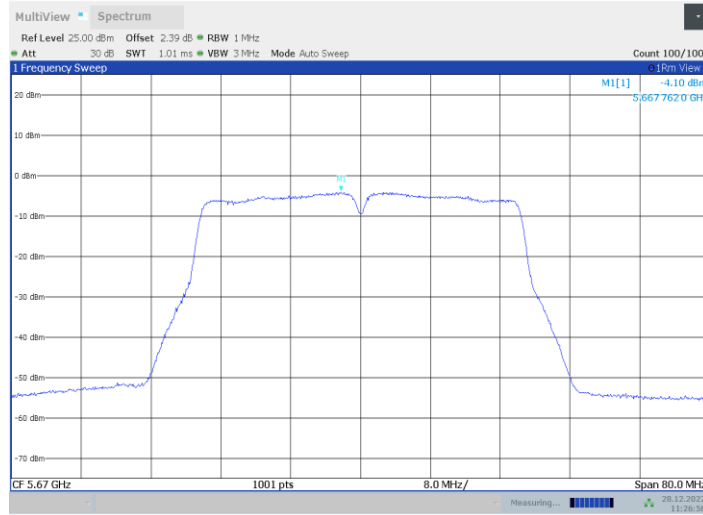


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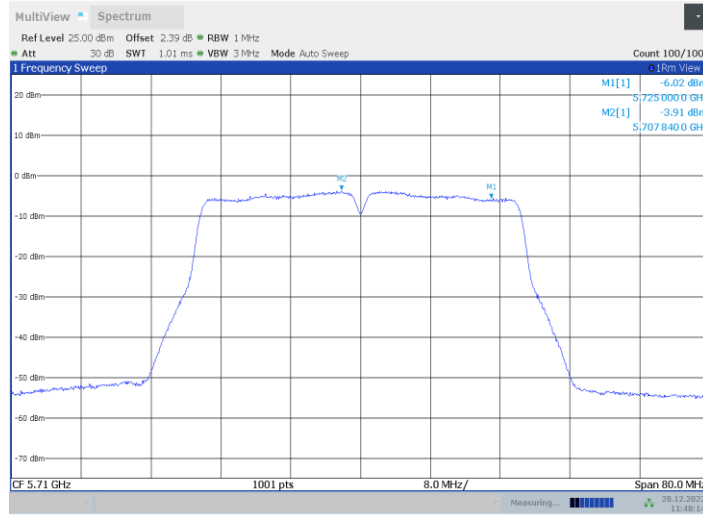
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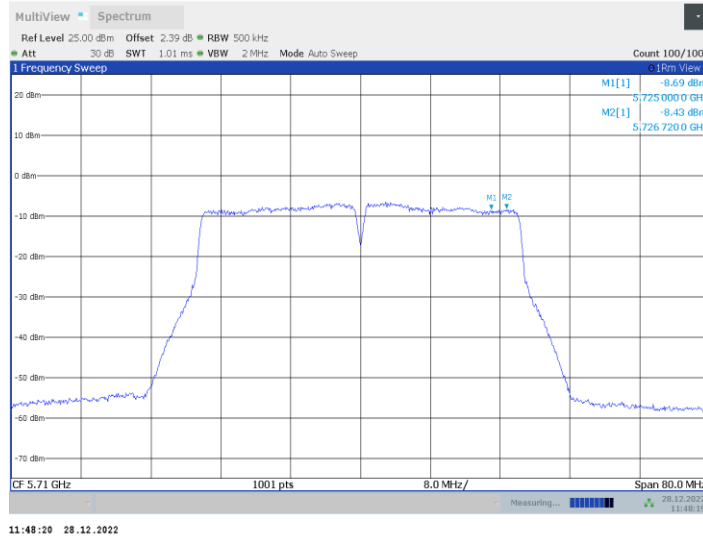


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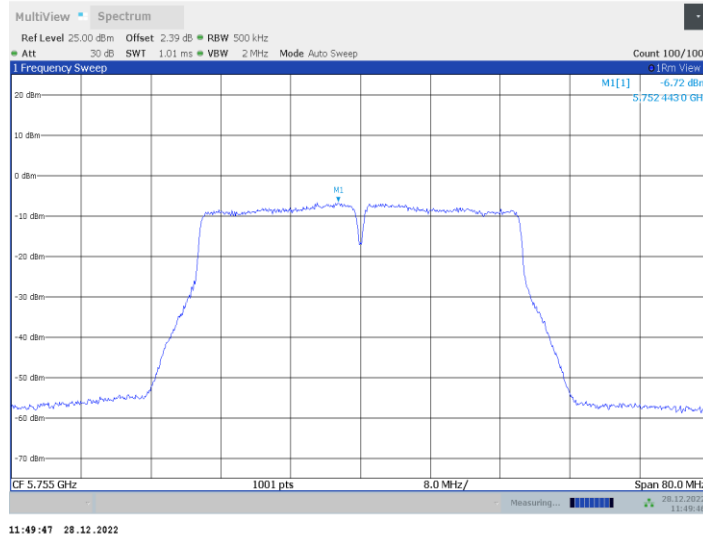


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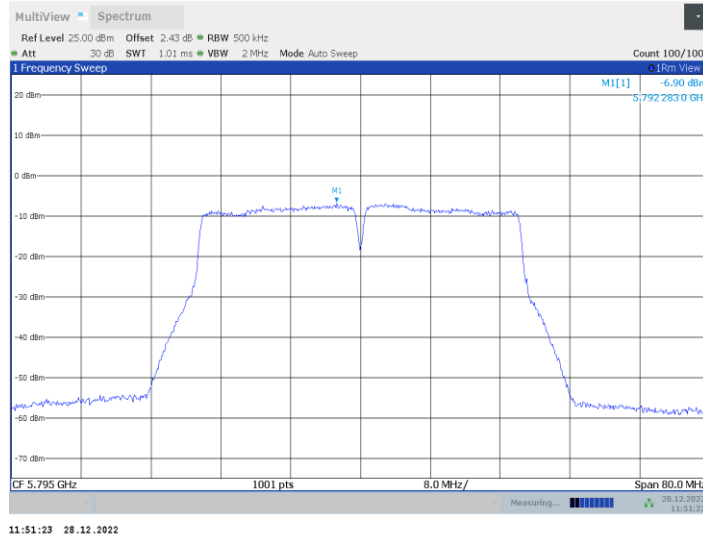


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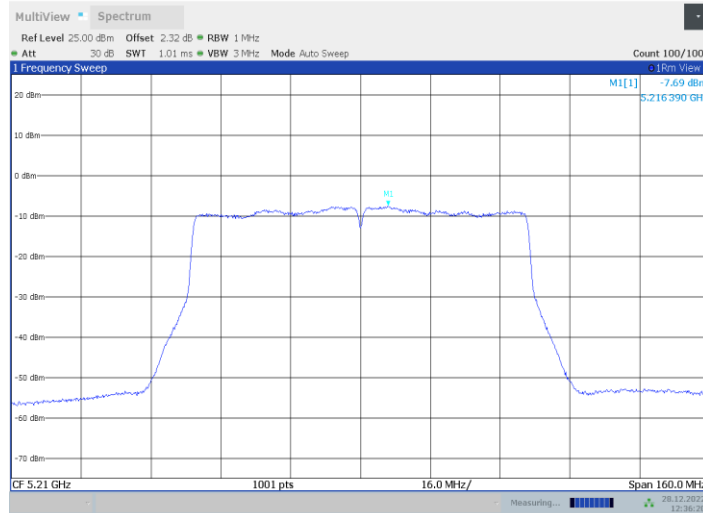
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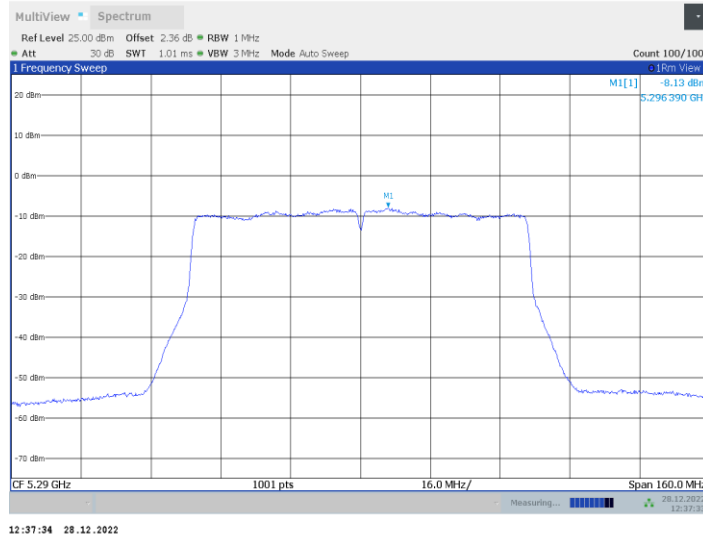
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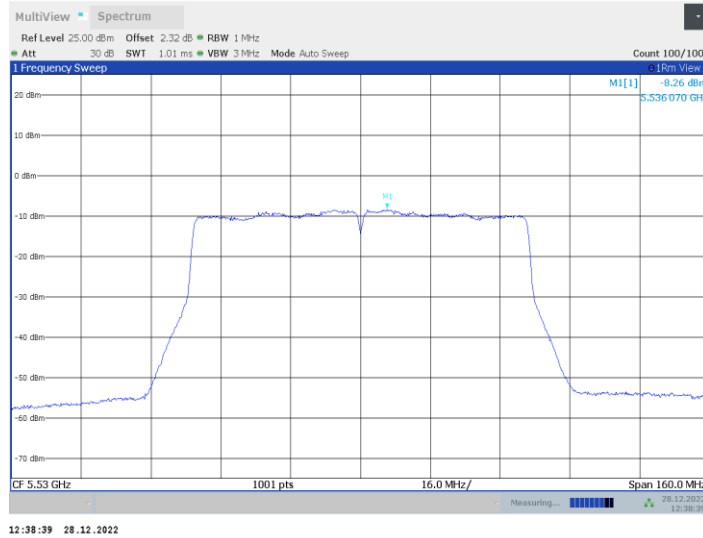
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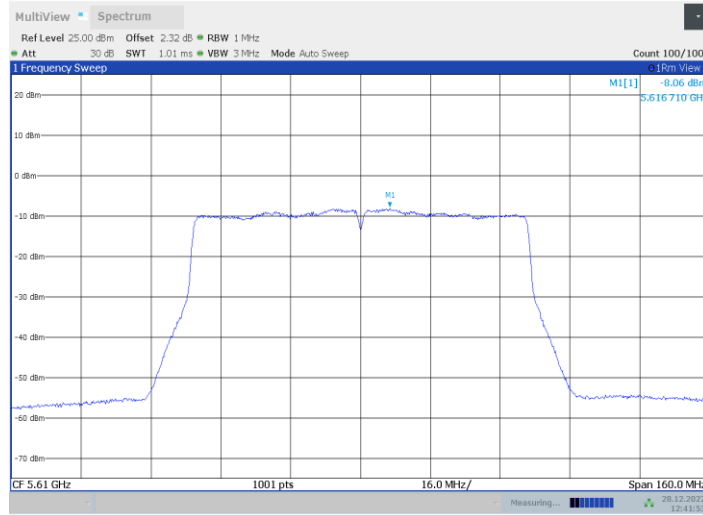


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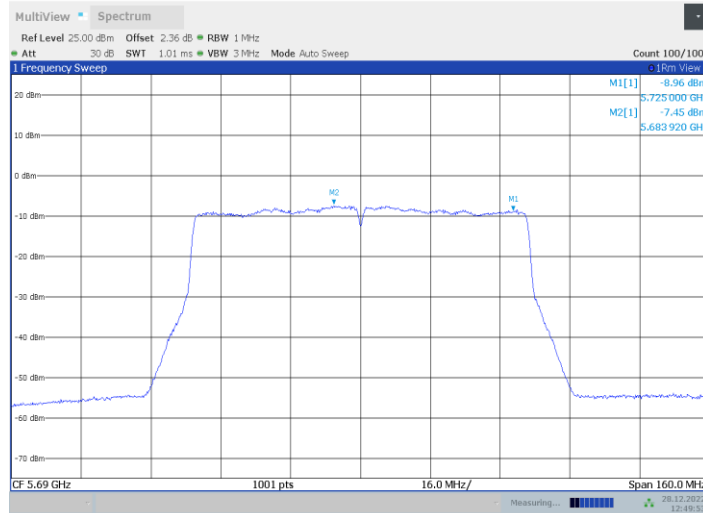
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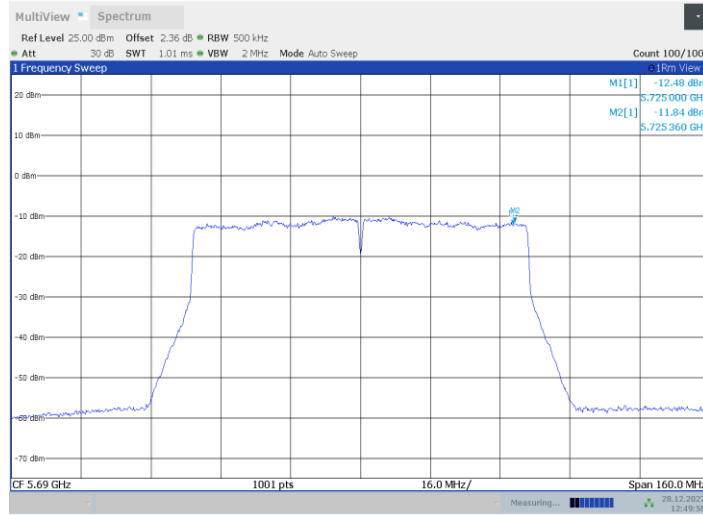


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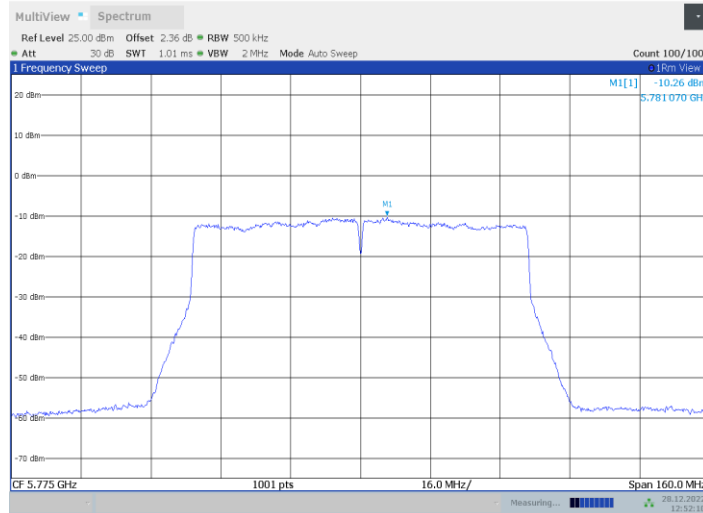
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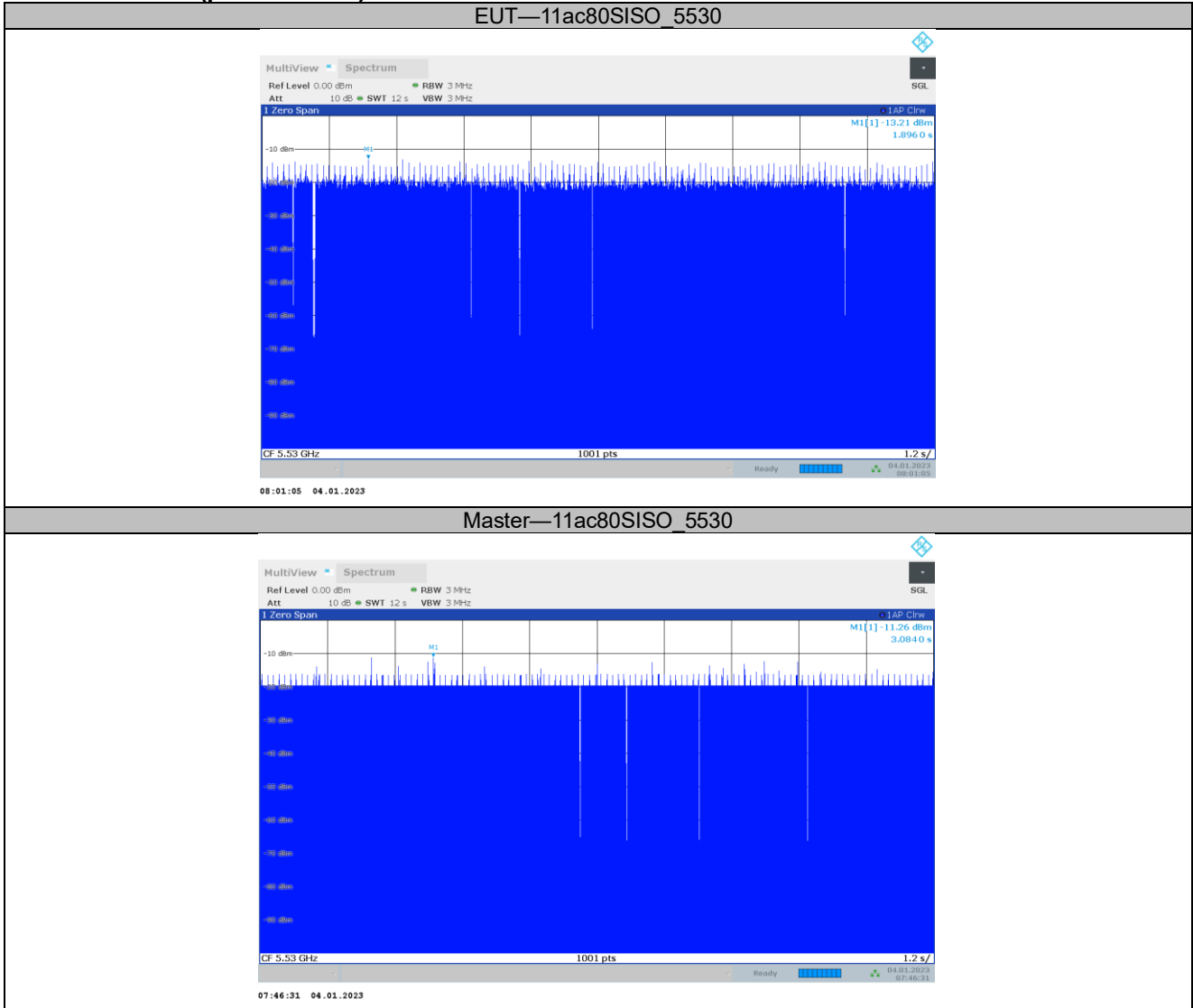
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Data Traffic Plot

Test Graphs

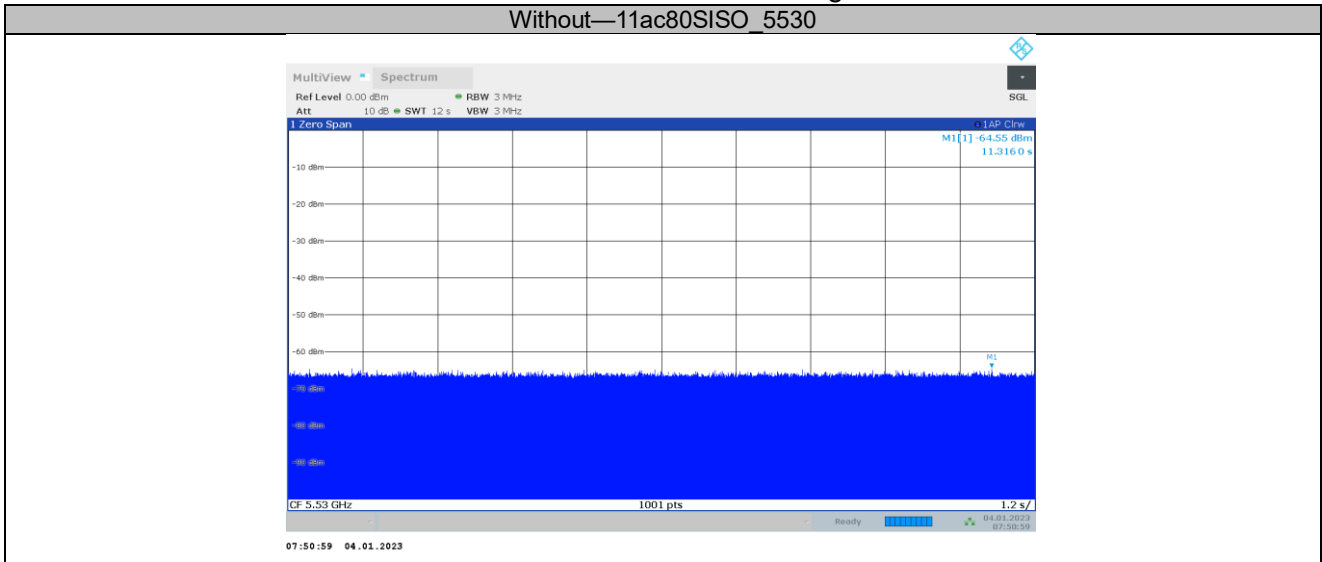
For PY7-51629L(parent model) data:



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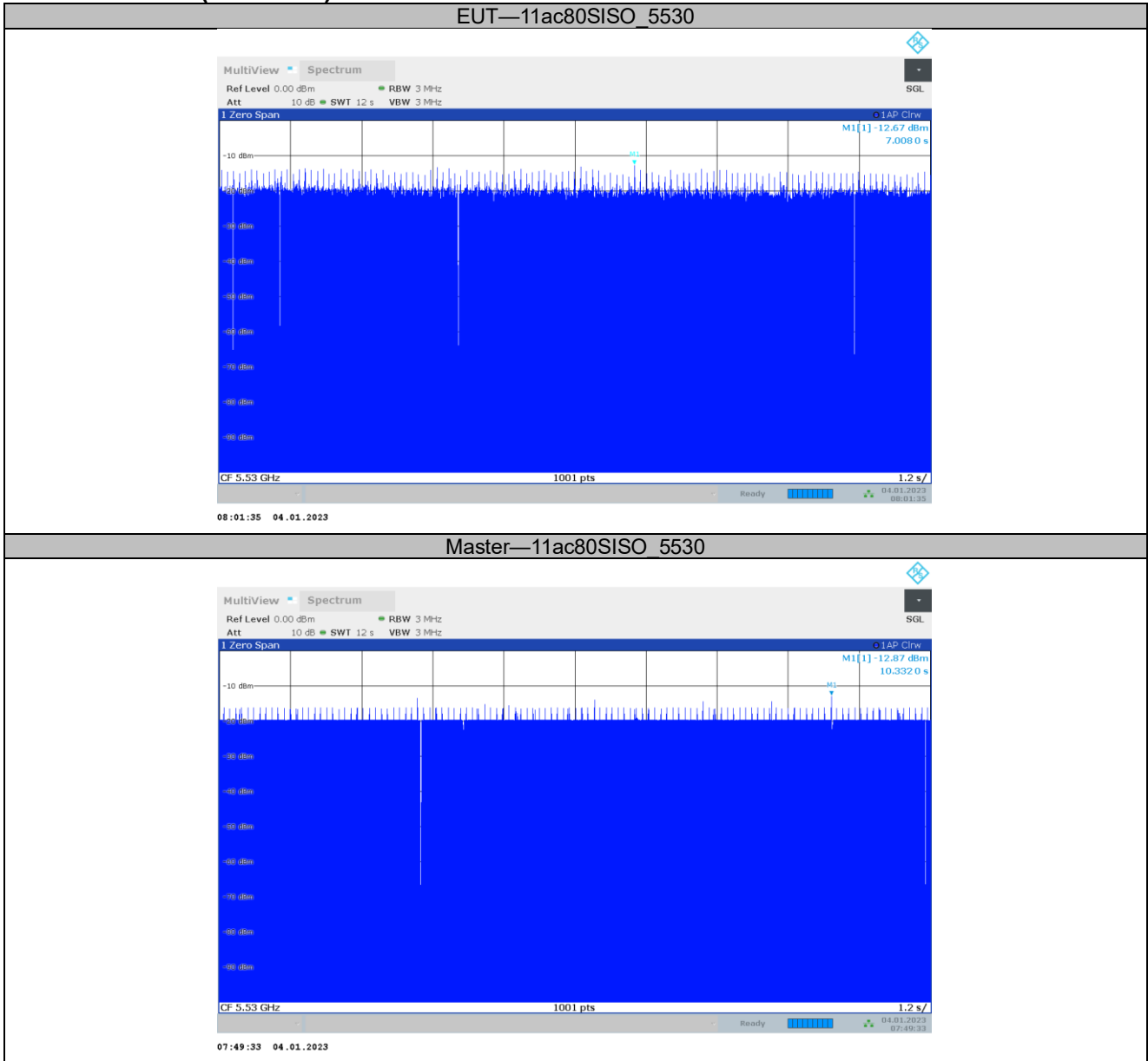
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For PY7-97087H (this model) data:



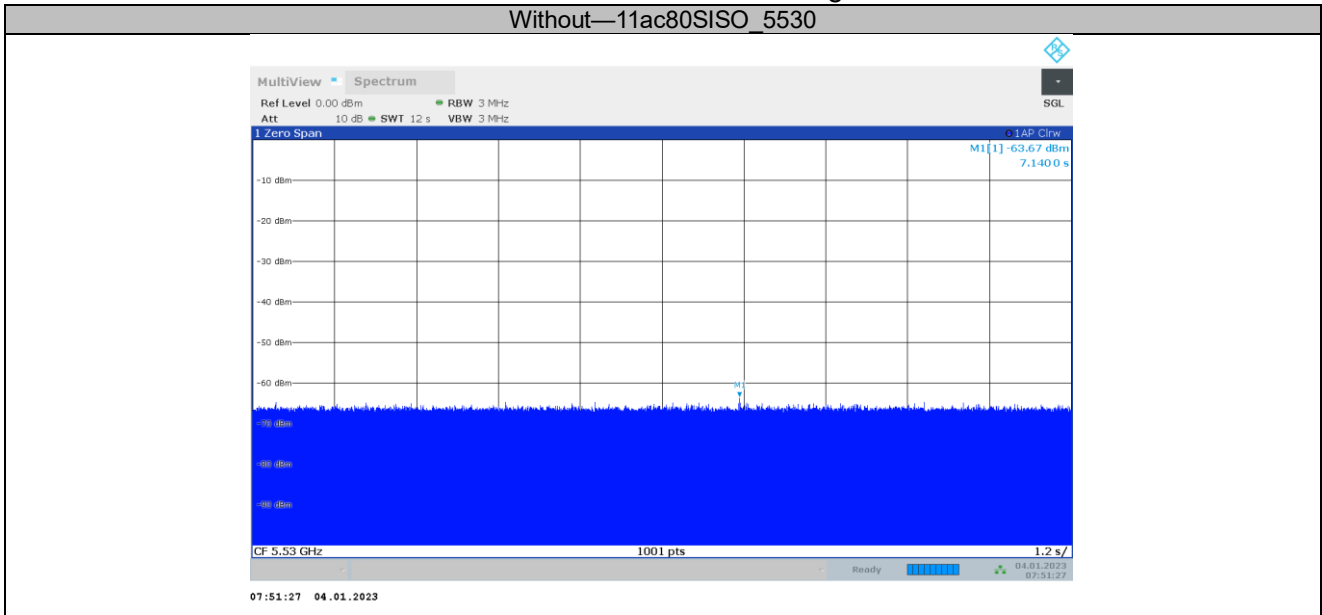
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## Channel Move Time and Channel Closing Transmission Time Test Result

**For PY7-51629L(parent model) data:**

TestMode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11ac80SISO	5530	200+14.3	200+60	852.5	10000	PASS

**For PY7-97087H (this model) data:**

TestMode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11ac80SISO	5530	200+13	200+60	826.5	10000	PASS

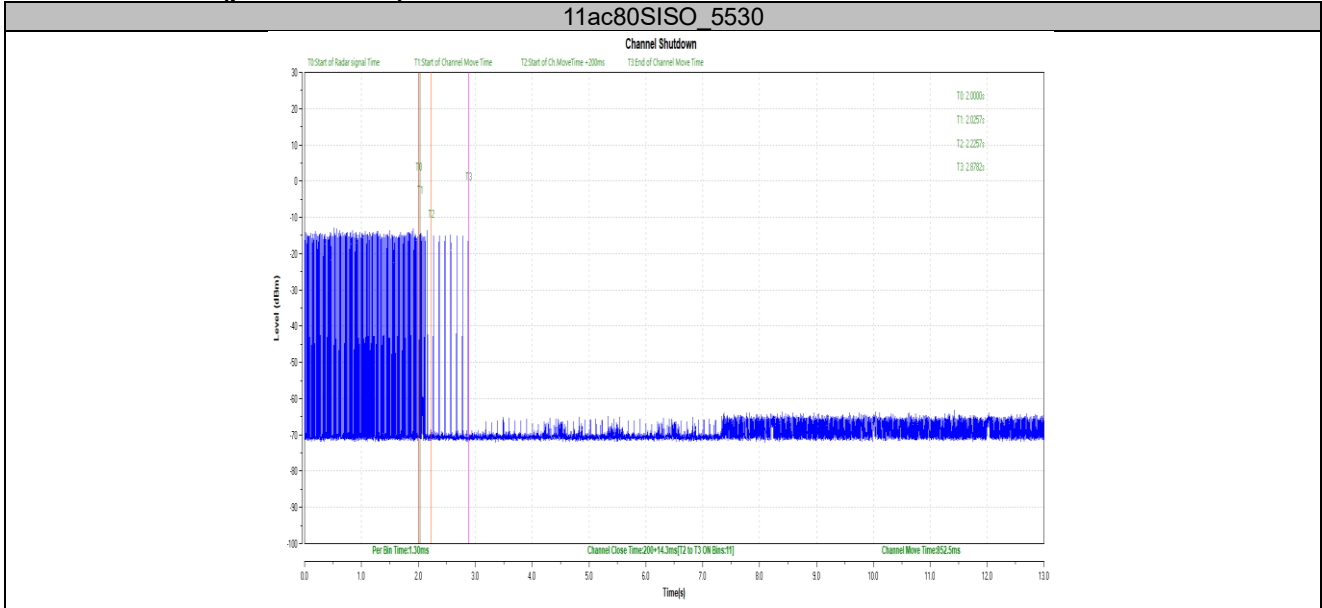


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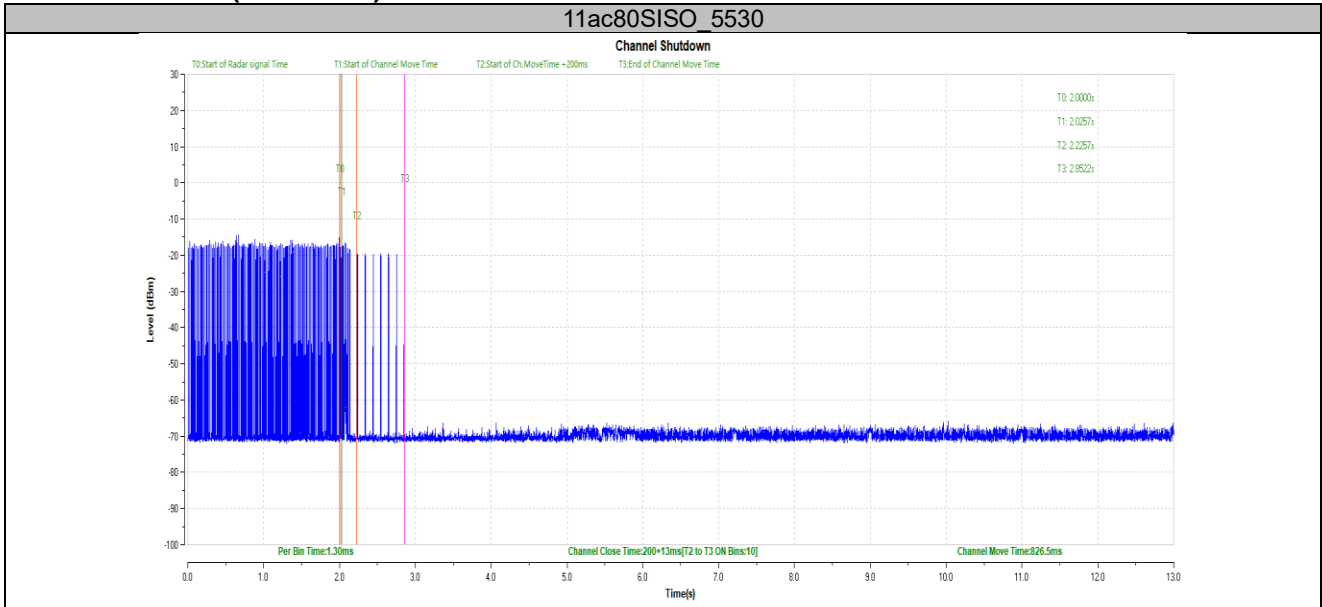
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Test Graphs

For PY7-51629L(parent model) data:



For PY7-97087H (this model) data:



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## Non-Occupancy Period

### Test Result

**For PY7-51629L(parent model) data:**

TestMode	Frequency[MHz]	Result	Limit[s]	Verdict
11ac80SISO	5530	see test graph	≥1800	Verdict

**For PY7-97087H (this model) data:**

TestMode	Frequency[MHz]	Result	Limit[s]	Verdict
11ac80SISO	5530	see test graph	≥1800	PASS

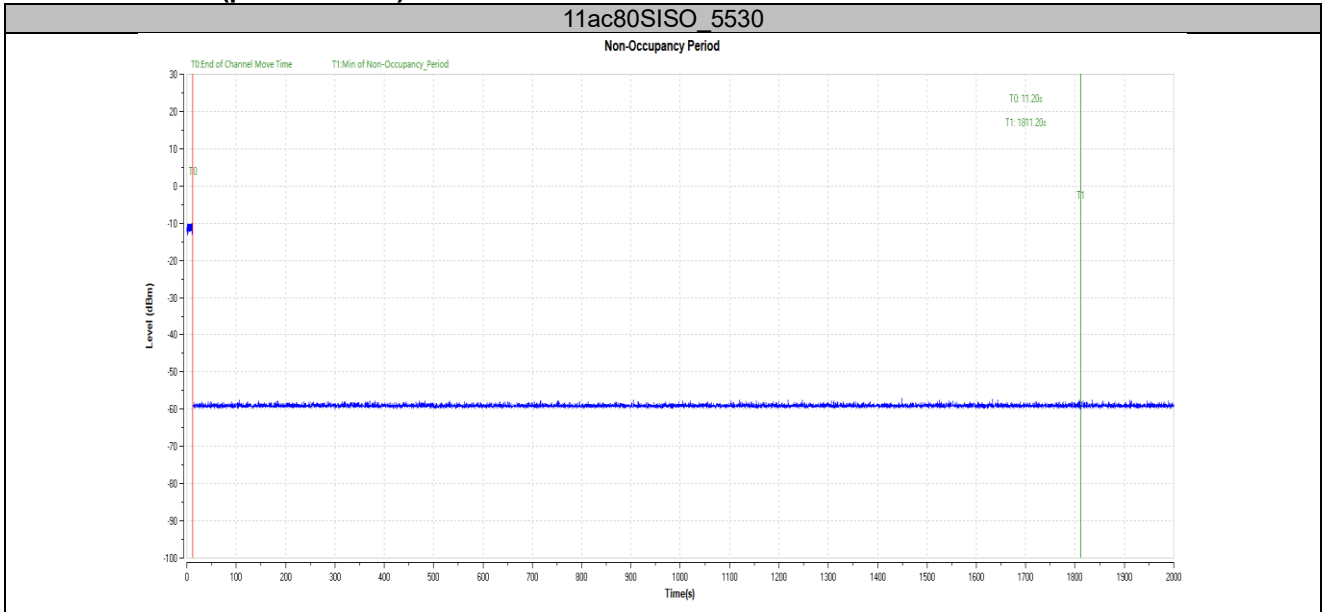


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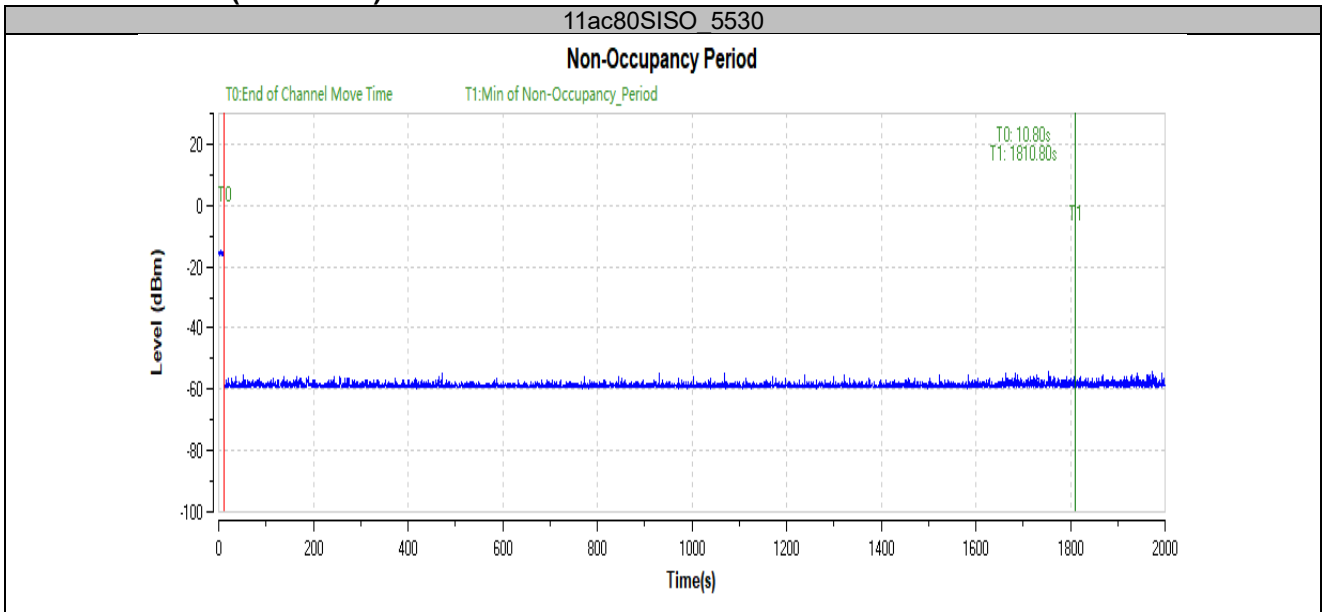
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Test Graphs

For PY7-51629L(parent model) data:



For PY7-97087H (this model) data:



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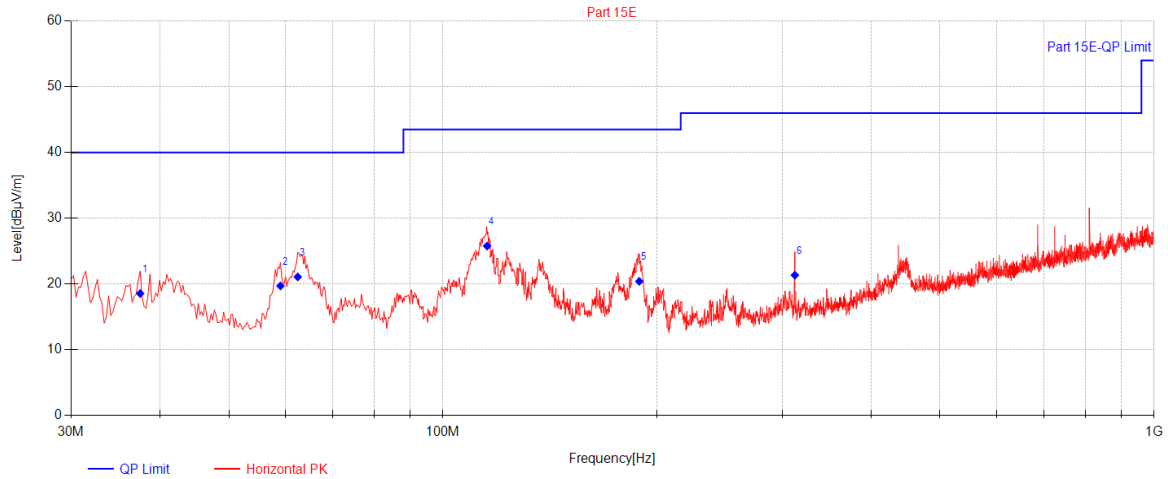
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### Radiated Spurious Emissions

### Radiated emission below 1GHz

For PY7-51629L(parent model) data:

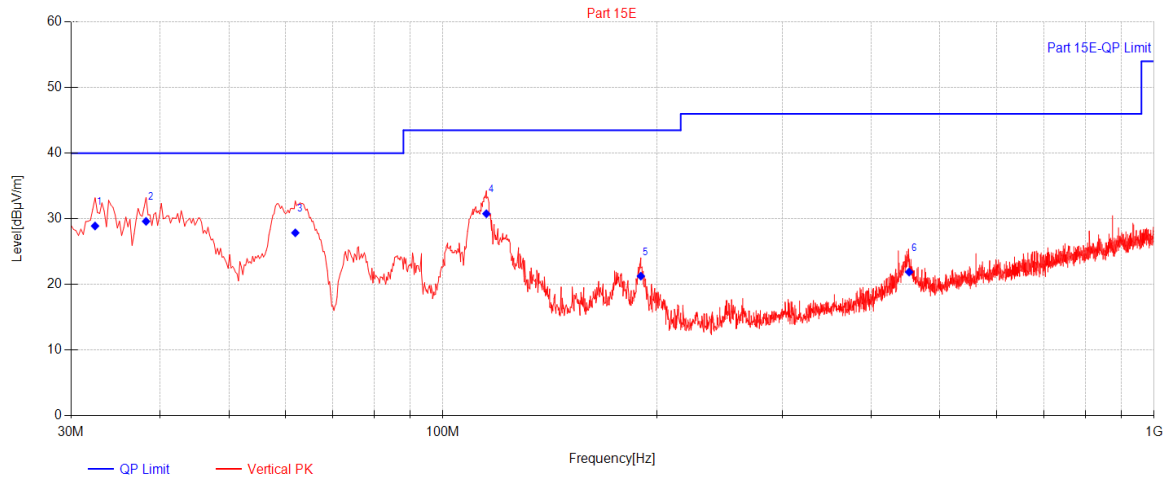
Worst case Mode: 802.11ac80\_Channel 58



Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.5175	41.18	-36.38	13.73	18.54	40.00	21.46	256	115	Horizontal
2	59.1	43.25	-36.38	12.82	19.69	40.00	20.31	148	158	Horizontal
3	62.495	45.22	-36.43	12.27	21.06	40.00	18.94	195	288	Horizontal
4	115.36	50.19	-36.15	11.72	25.76	43.50	17.74	174	105	Horizontal
5	188.8375	43.22	-35.40	12.57	20.39	43.50	23.11	125	249	Horizontal
6	312.5125	42.56	-34.29	13.06	21.33	46.00	24.67	166	237	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.425	52.19	-36.60	13.30	28.90	40.00	11.10	254	289	Vertical
2	38.245	52.11	-36.35	13.83	29.60	40.00	10.40	174	20	Vertical
3	62.01	51.92	-36.42	12.36	27.86	40.00	12.14	196	268	Vertical
4	115.1175	55.22	-36.15	11.70	30.77	43.50	12.73	185	320	Vertical
5	189.8075	44.33	-35.42	12.34	21.25	43.50	22.25	142	165	Vertical
6	452.435	38.94	-33.06	16.00	21.87	46.00	24.13	165	268	Vertical

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:  
 $Value = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$   
 $AF = Antenna\ Factor(dB/m)$   
 $Factor = Cable\ Factor(dB) - Pre-amplifier\ gain(dB)$   
 $Margin = Limit(dB\mu V/m) - Value(dB\mu V/m)$
- All channels have been tested, but only the worst case data displayed in this report.



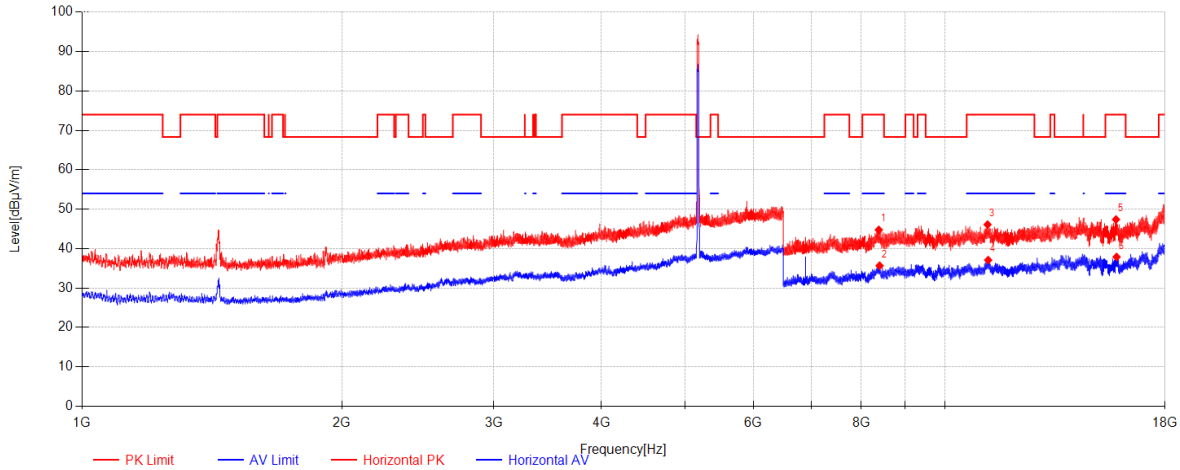
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### Transmitter emission Above 1GHz

For PY7-51629L(parent model) data:

802.11a\_Channel 36



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8384.5625	48.89	37.31	-41.45	44.75	74.00	29.25	175	25	Horizontal
2	8402.2917	39.71	37.33	-41.38	35.66	54.00	18.34	165	263	Horizontal
3	11207.3333	43.63	39.11	-36.65	46.09	74.00	27.91	199	189	Horizontal
4	11226.5	34.74	39.11	-36.77	37.08	54.00	16.92	184	166	Horizontal
5	15789.125	42.25	38.21	-33.08	47.38	74.00	26.62	152	23	Horizontal
6	15814.0417	32.90	38.18	-33.21	37.87	54.00	16.13	168	237	Horizontal

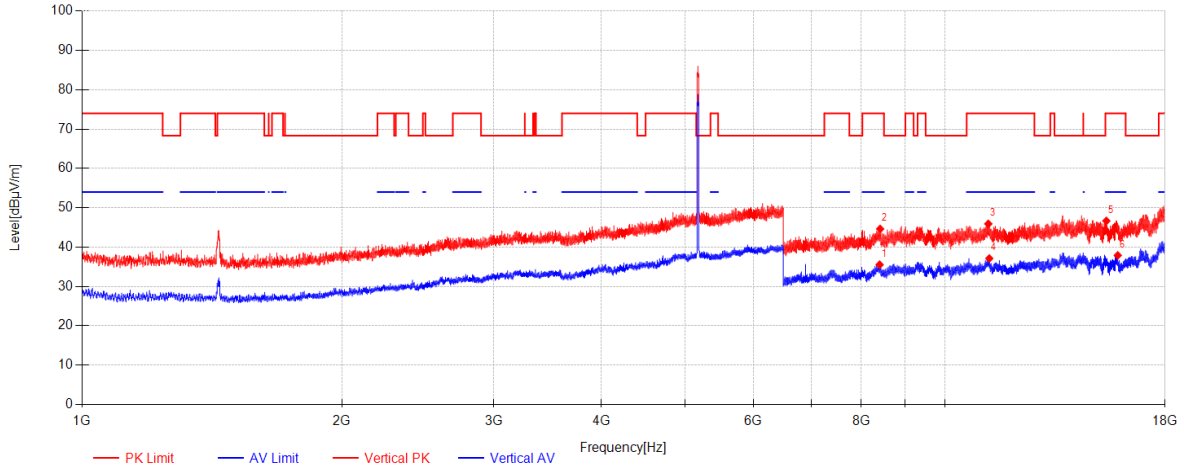


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802.11a\_Channel 36



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8401.8125	39.56	37.33	-41.38	35.52	54.00	18.48	289	335	Vertical
2	8413.7917	48.69	37.36	-41.43	44.62	74.00	29.38	191	91	Vertical
3	11230.3333	43.59	39.11	-36.79	45.91	74.00	28.09	174	5	Vertical
4	11259.0833	34.98	39.11	-36.97	37.12	54.00	16.88	156	189	Vertical
5	15389.0208	41.98	38.72	-34.04	46.66	74.00	27.34	153	0	Vertical
6	15862.9167	33.54	38.09	-33.73	37.90	54.00	16.10	261	42	Vertical

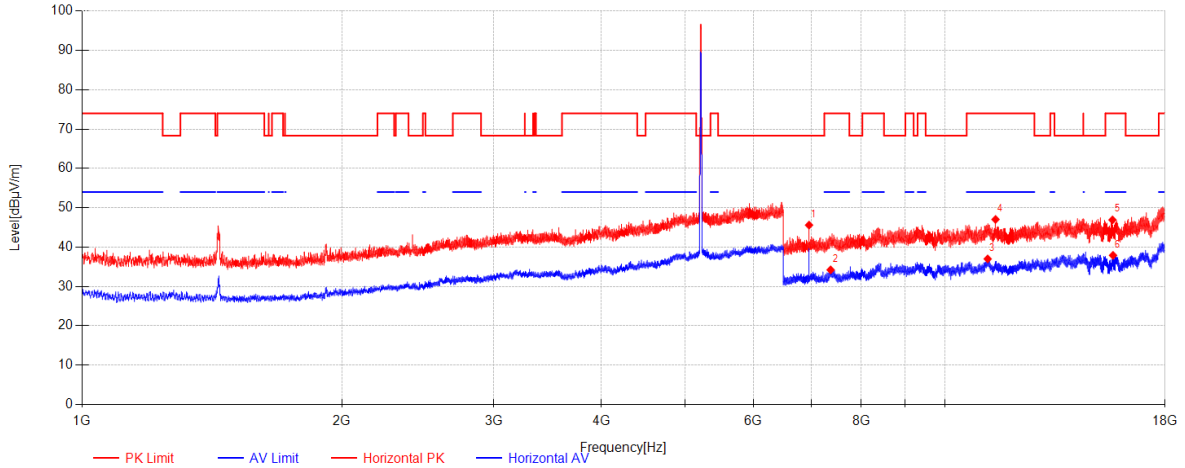


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802.11a\_Channel 44



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6960	52.91	36.03	-43.35	45.59	68.30	22.71	169	278	Horizontal
2	7372.0833	40.65	36.51	-42.94	34.21	54.00	19.79	155	117	Horizontal
3	11211.6458	34.56	39.11	-36.67	37.00	54.00	17.00	148	19	Horizontal
4	11447.875	45.01	39.06	-37.03	47.04	74.00	26.96	178	262	Horizontal
5	15642.5	42.43	38.39	-33.90	46.92	74.00	27.08	195	312	Horizontal
6	15664.5417	33.19	38.36	-33.65	37.90	54.00	16.10	124	165	Horizontal



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