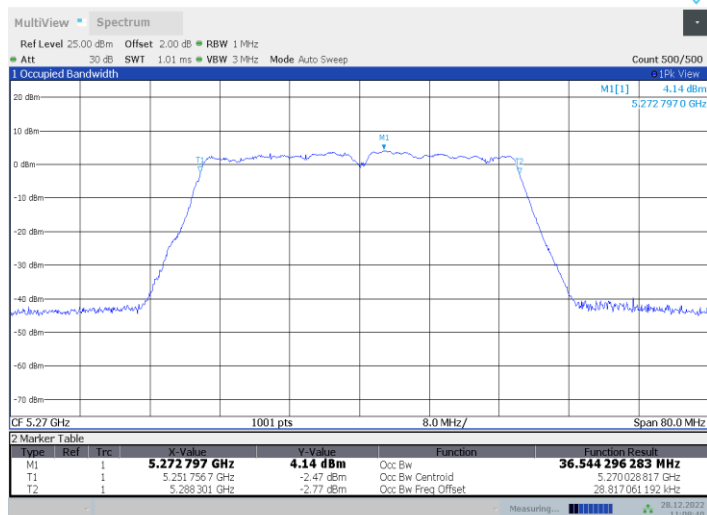
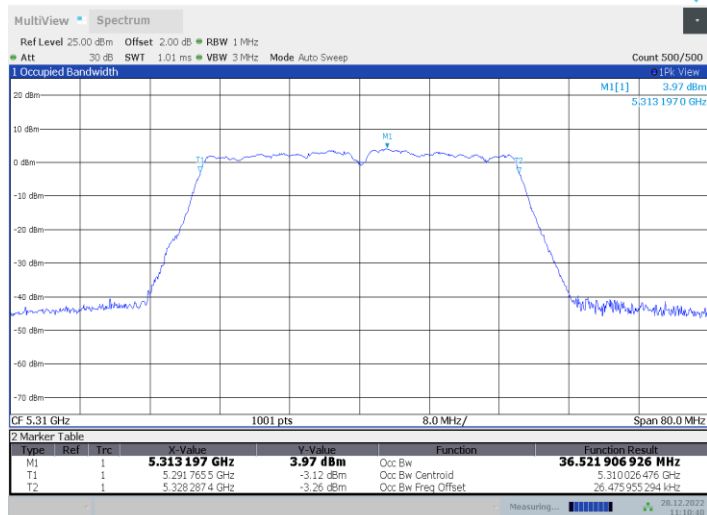


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11:09:41 28.12.2022

11ac40SISO Ant6 5310



11:10:40 28.12.2022



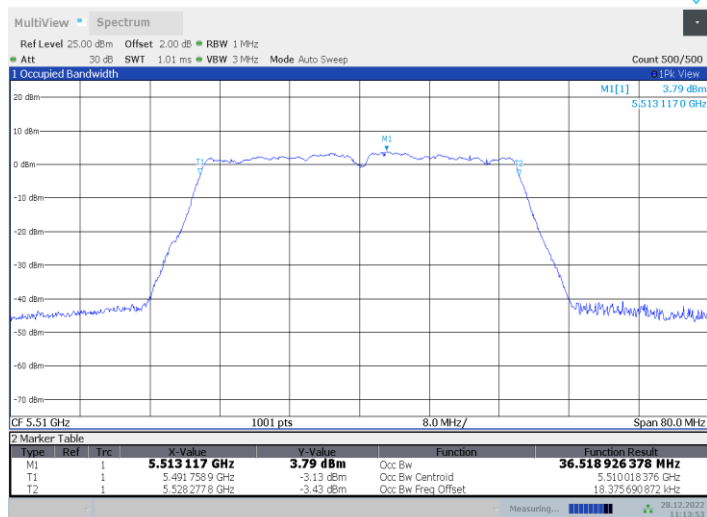
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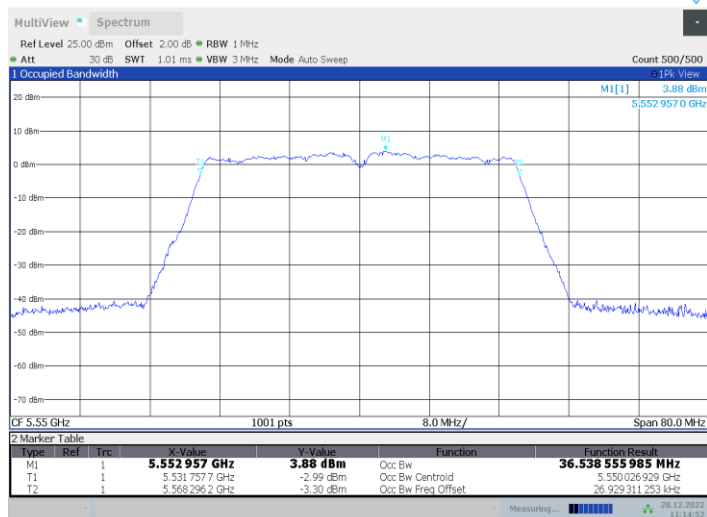
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11ac40SISO Ant6 5510



11:13:53 28.12.2022

11ac40SISO Ant6 5550



11:14:52 28.12.2022



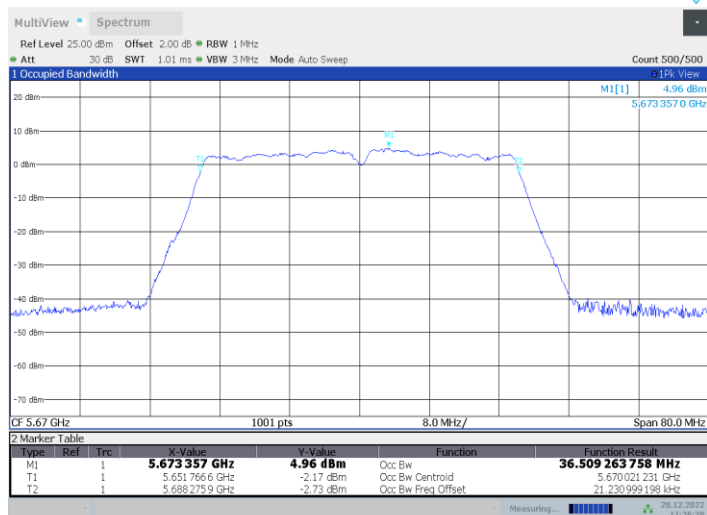
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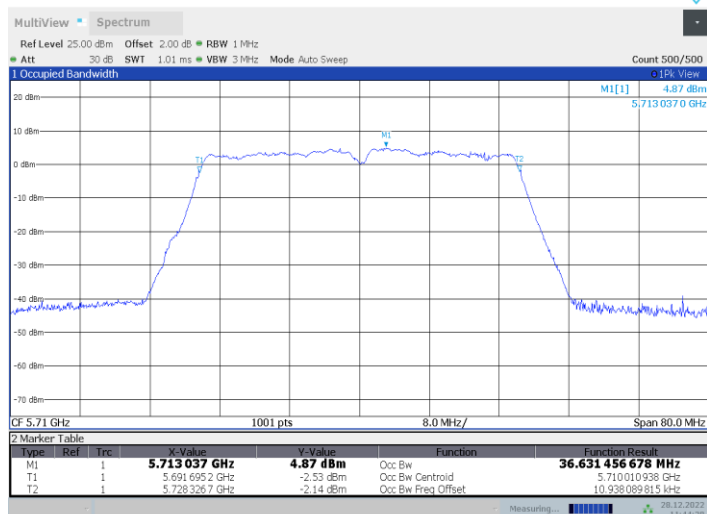
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11ac40SISO Ant6 5670



11:26:29 28.12.2022

11ac40SISO Ant6 5710



11:44:29 28.12.2022



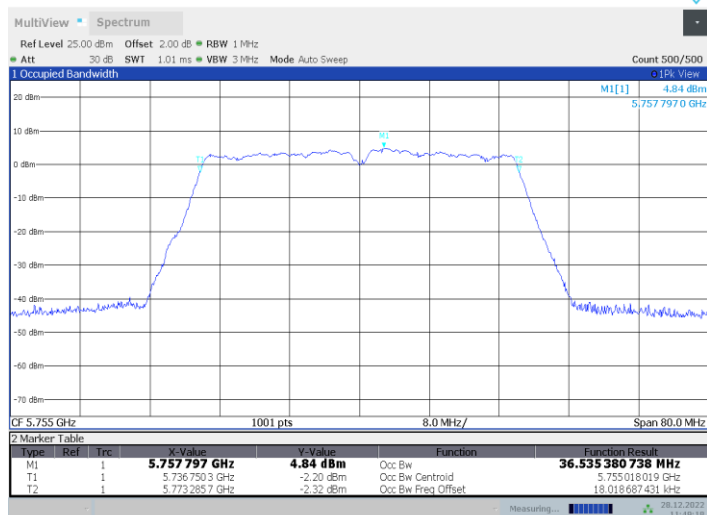
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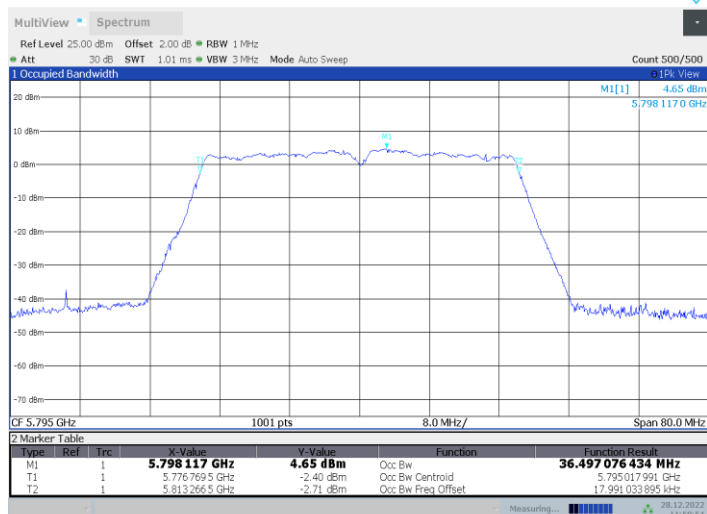
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11ac40SISO Ant6 5755



11:49:19 28.12.2022

11ac40SISO Ant6 5795



11:50:55 28.12.2022



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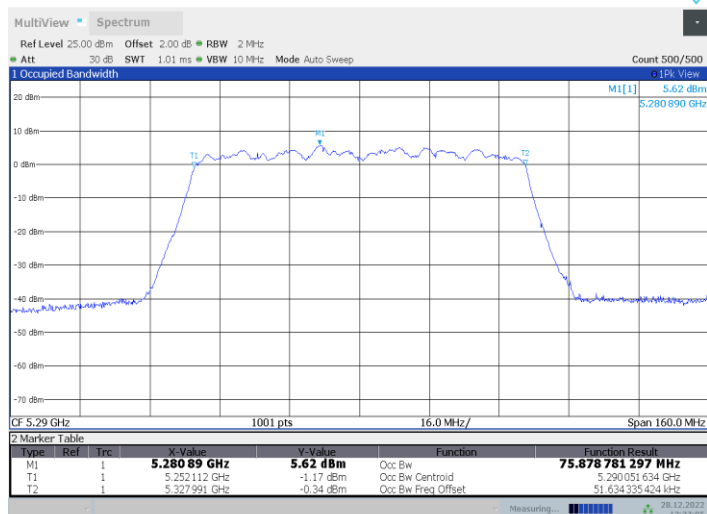
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11ac80SISO_Ant6_5290



12:37:06 28.12.2022



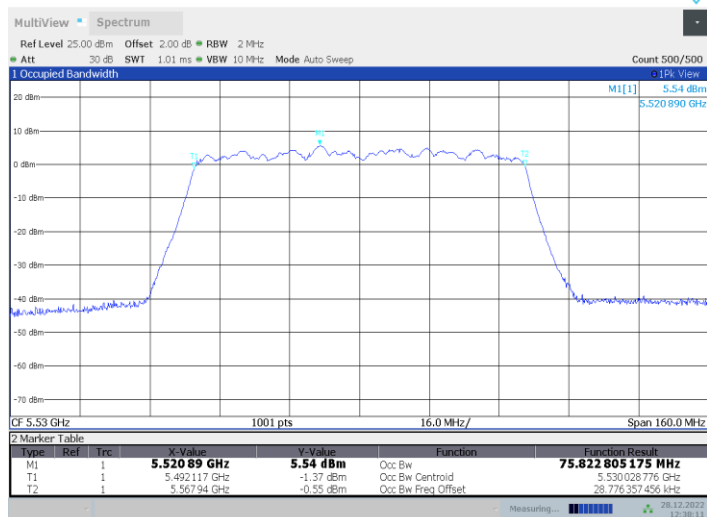
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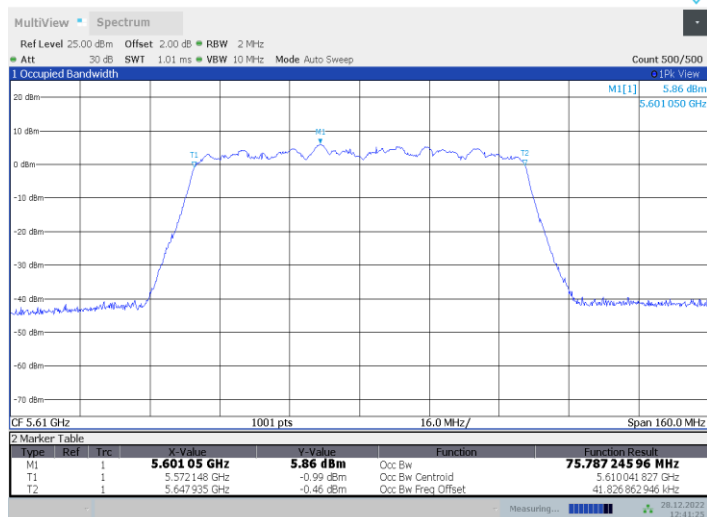
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11ac80SISO_Ant6_5530



12:38:12 28.12.2022

11ac80SISO_Ant6_5610



12:41:26 28.12.2022



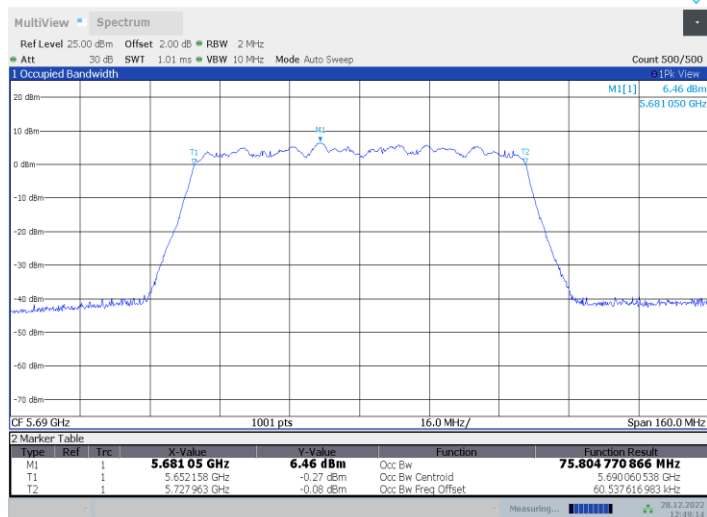
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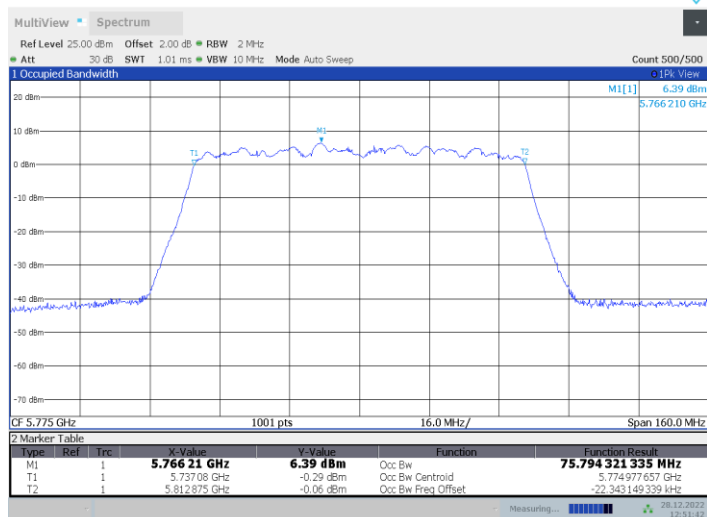
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11ac80SISO_Ant6_5690



12:49:14 28.12.2022

11ac80SISO_Ant6_5775



12:51:42 28.12.2022



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Report No.: SEWM2212000309RG05

Rev.: 02

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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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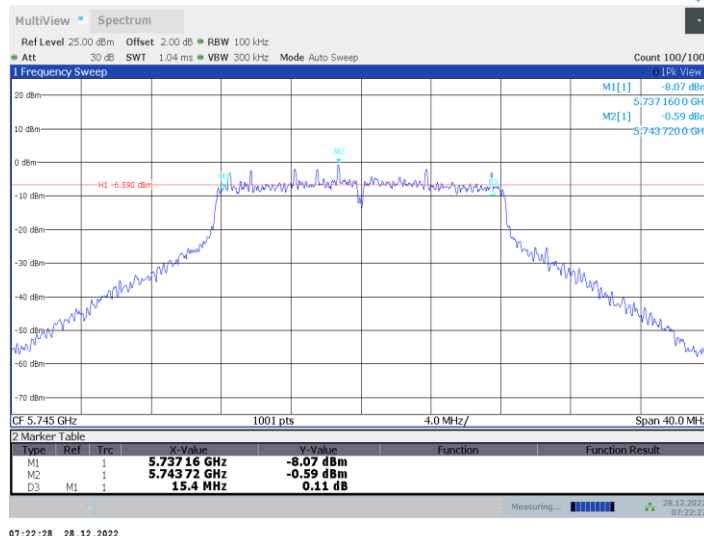
Report No.: SEWM2212000309RG05

Rev.: 02

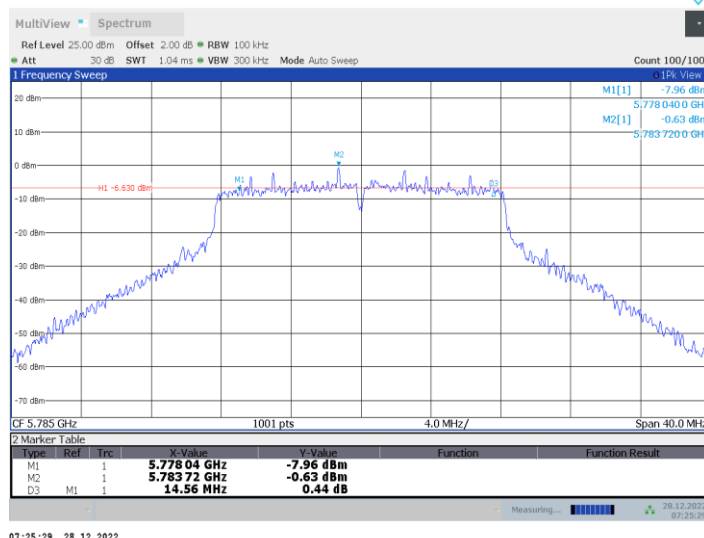
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Test Graphs B4

11a_Ant6_5745



11a_Ant6_5785



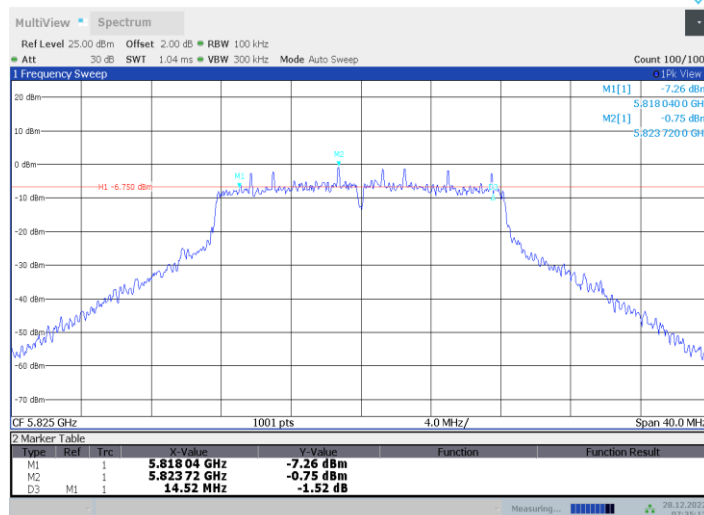
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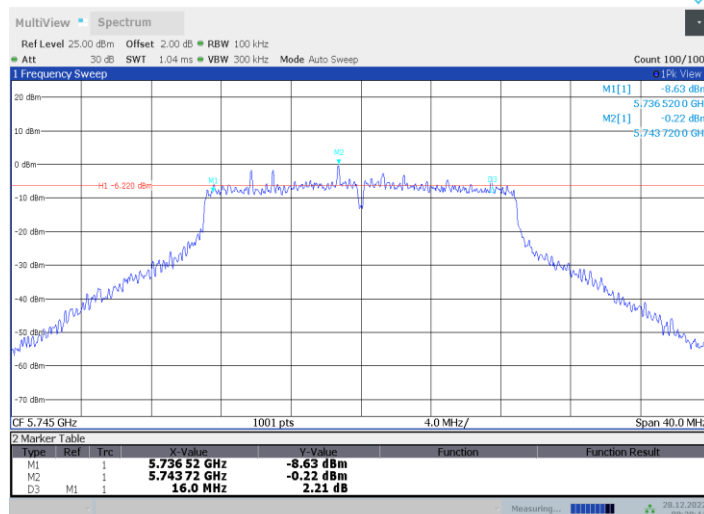
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11a_Ant6_5825



07:35:14 28.12.2022

11ac20SISO_Ant6_5745



08:38:44 28.12.2022



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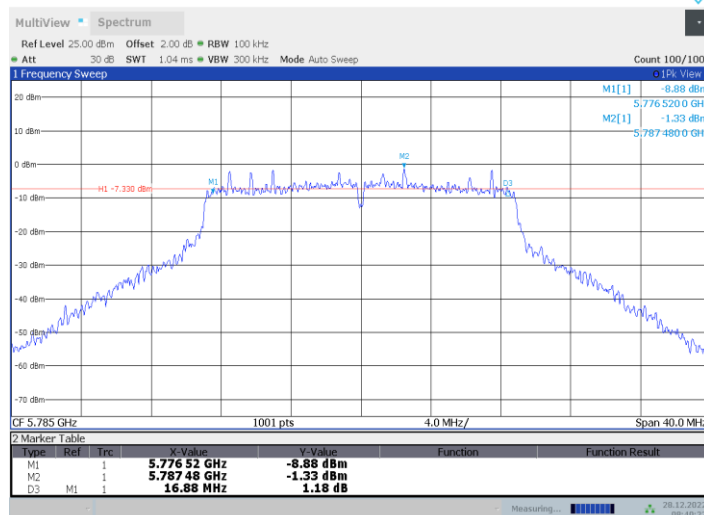
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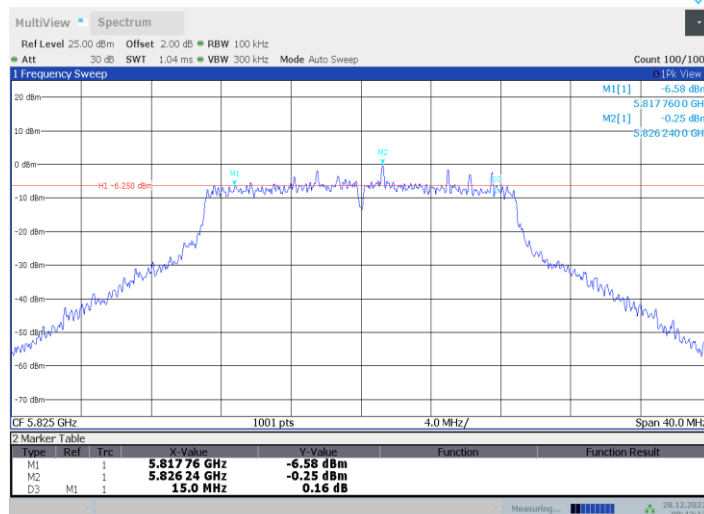
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11ac20SISO Ant6 5785



08:40:22 28.12.2022

11ac20SISO Ant6 5825



08:42:14 28.12.2022



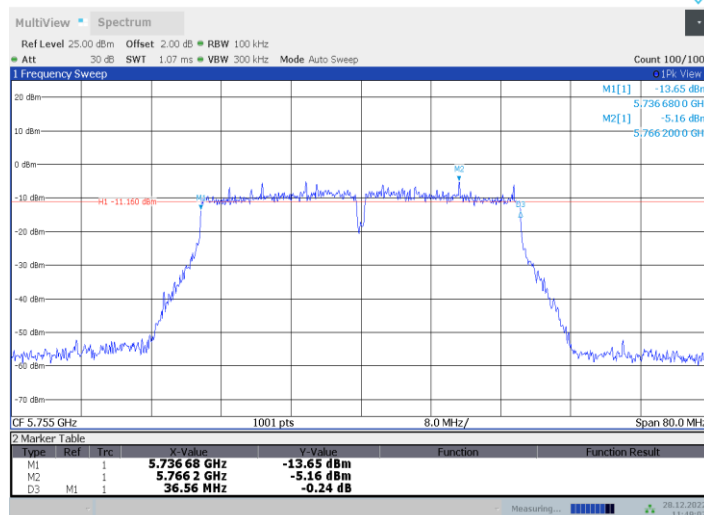
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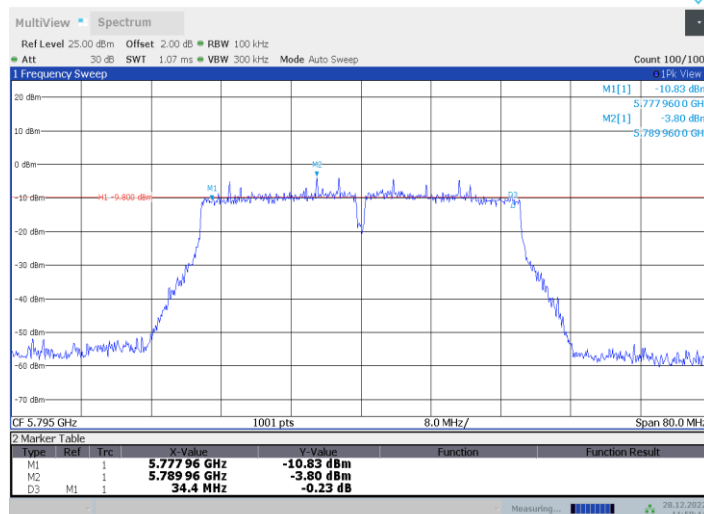
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11:49:08 28.12.2022

11ac40SISO Ant6 5795



11:50:44 28.12.2022



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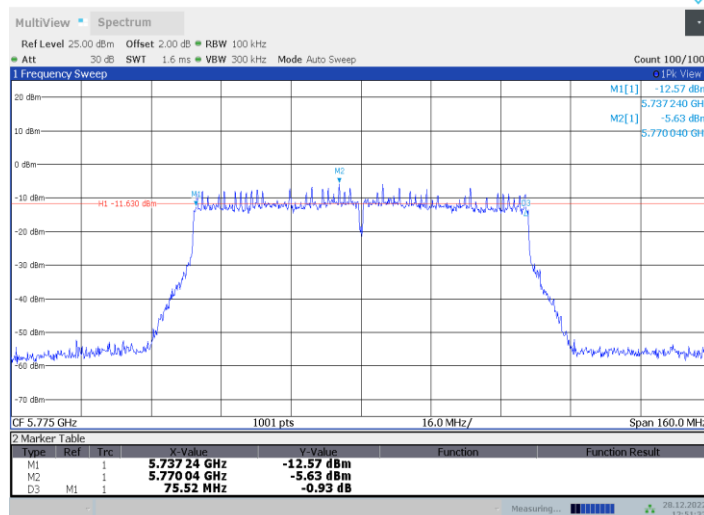
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11ac80SISO Ant6 5775



12:51:32 28.12.2022



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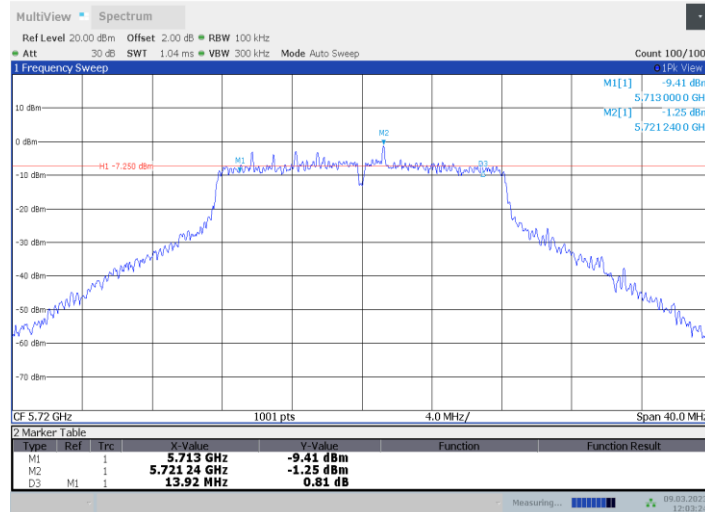
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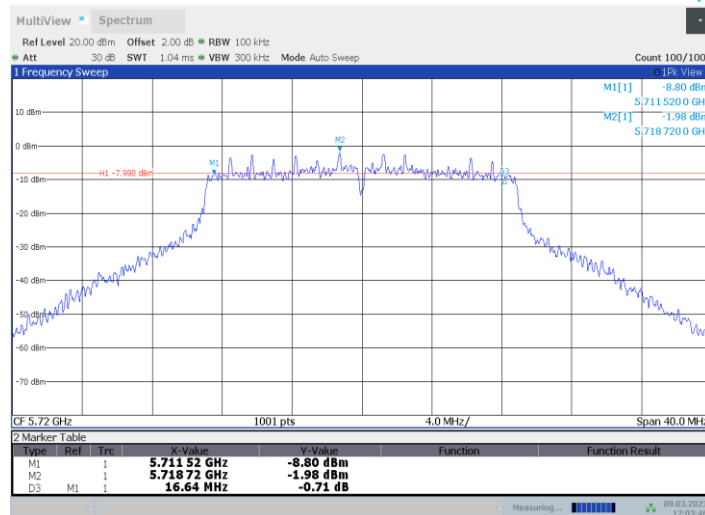
Straddle Channel

11a Ant6_5720_UNII-3



12:03:24 09.03.2023

11ac20SISO_Ant6_5720_UNII-3



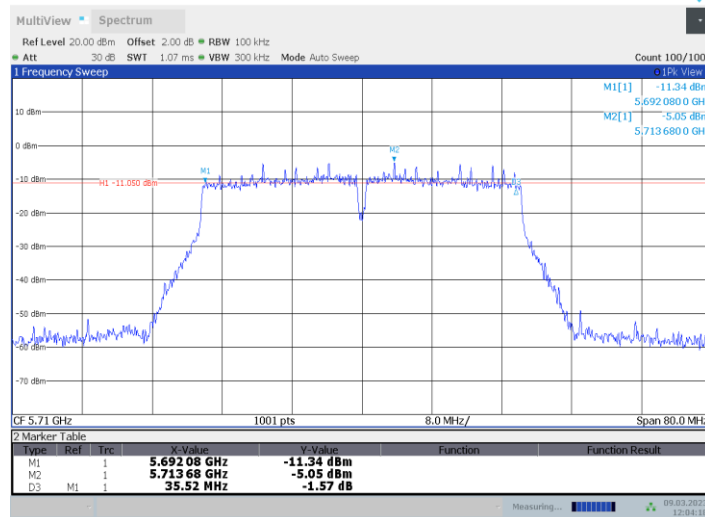
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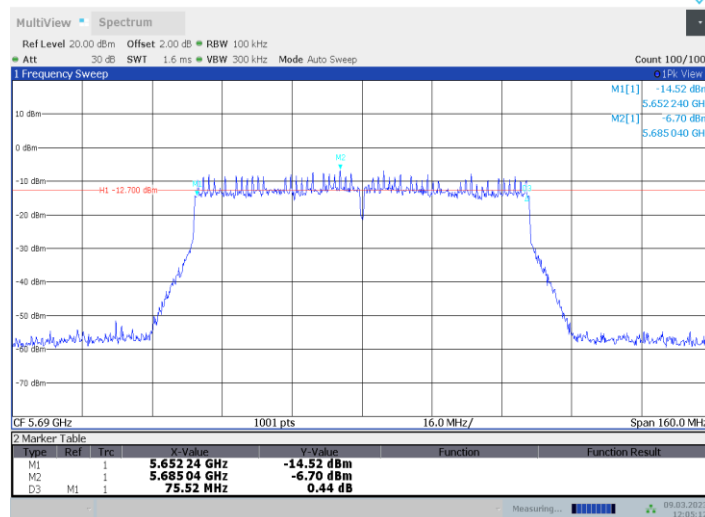
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11ac40SISO_Ant6_5710_UNII-3



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



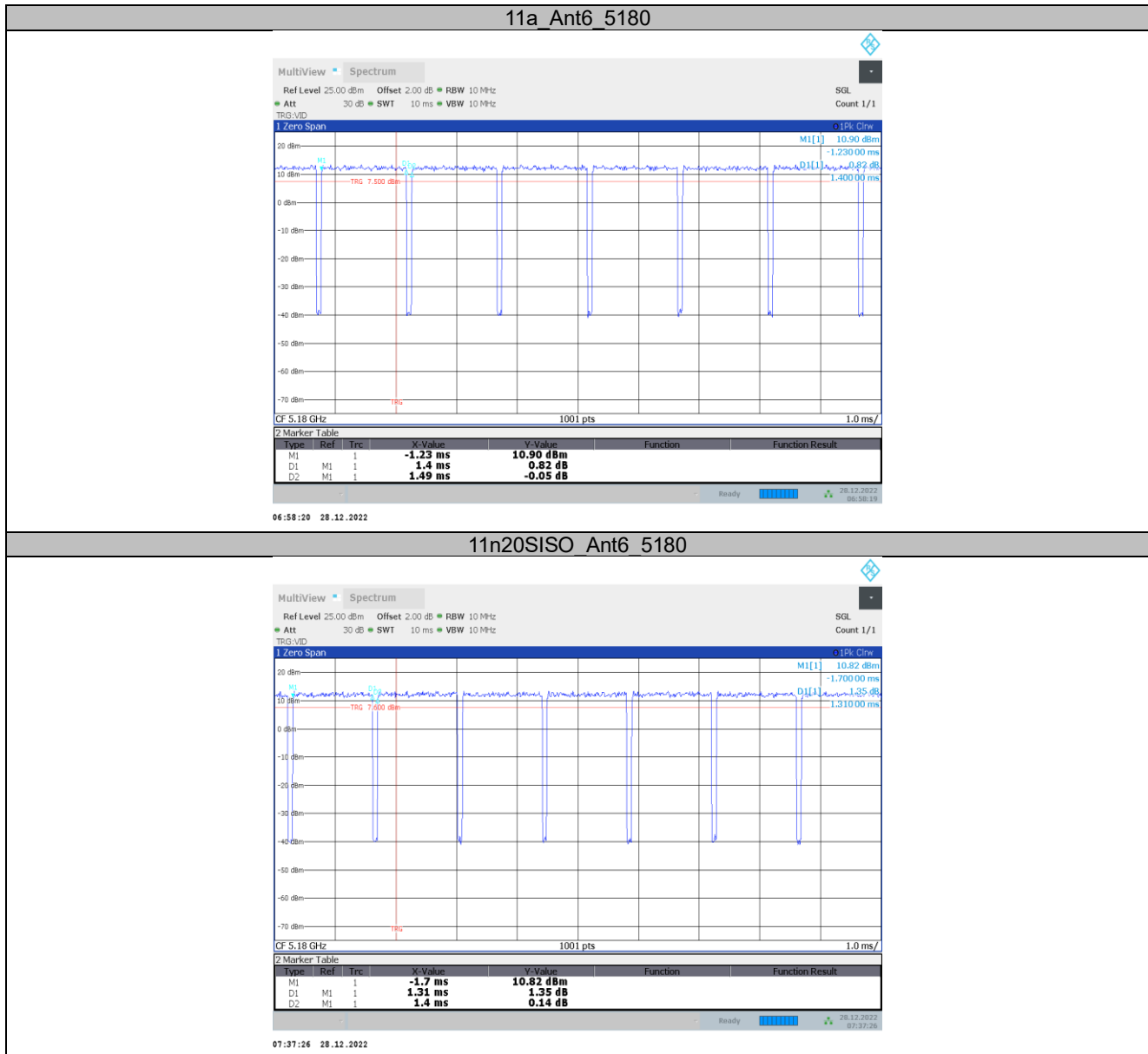
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Test Graphs



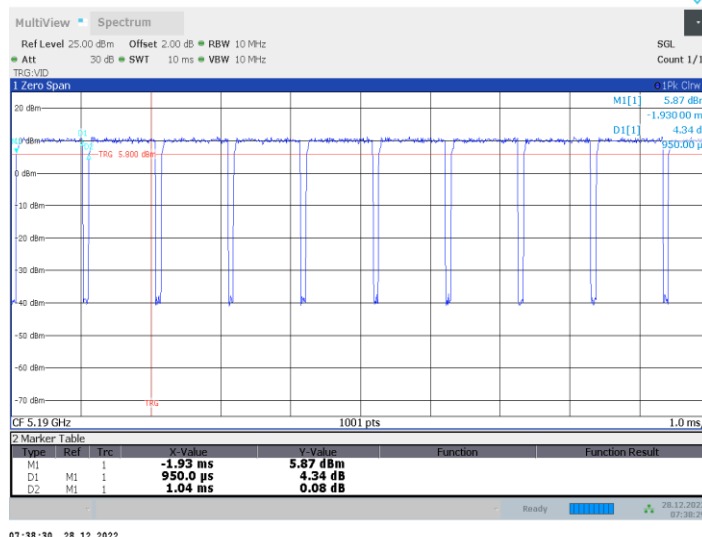
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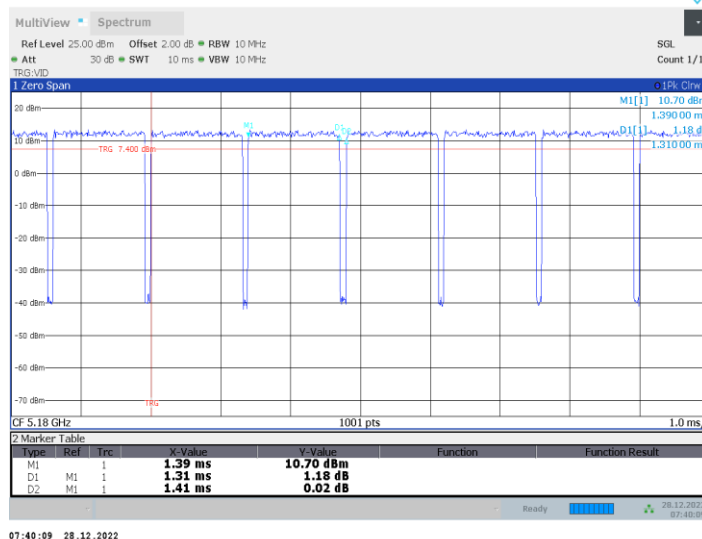
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11n40SISO_Ant6_5190



11ac20SISO_Ant6_5180



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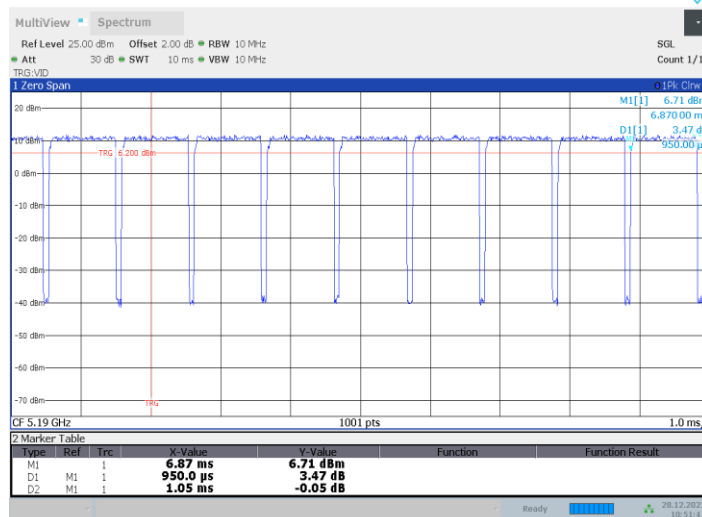
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11ac40SISO Ant6 5190



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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		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
		5210	-7.69	≤11.00	PASS
		5290	-8.13	≤11.00	PASS
11ac80SISO	Ant6	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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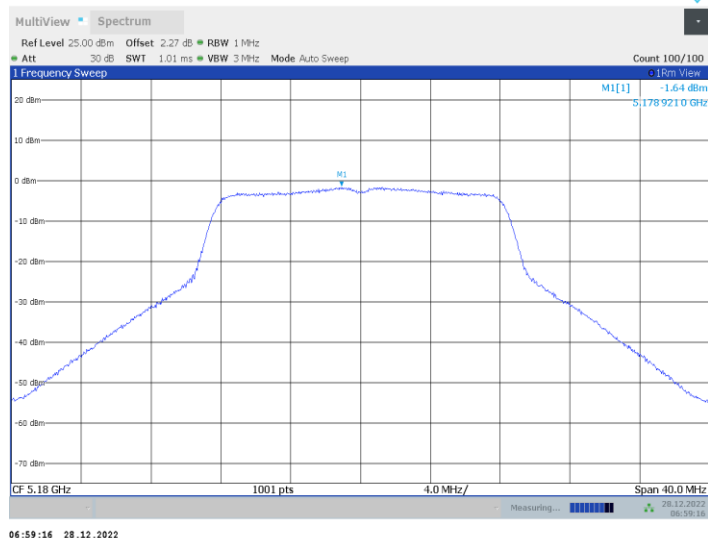
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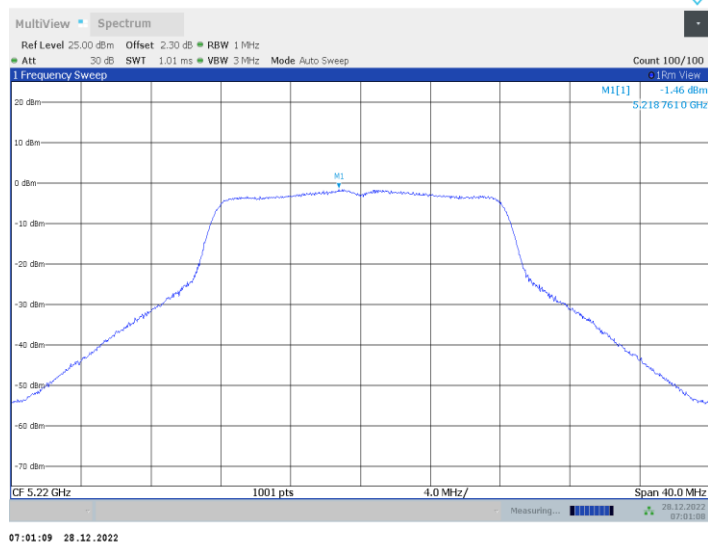
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Test Graphs

11a_Ant6_5180



11a_Ant6_5220



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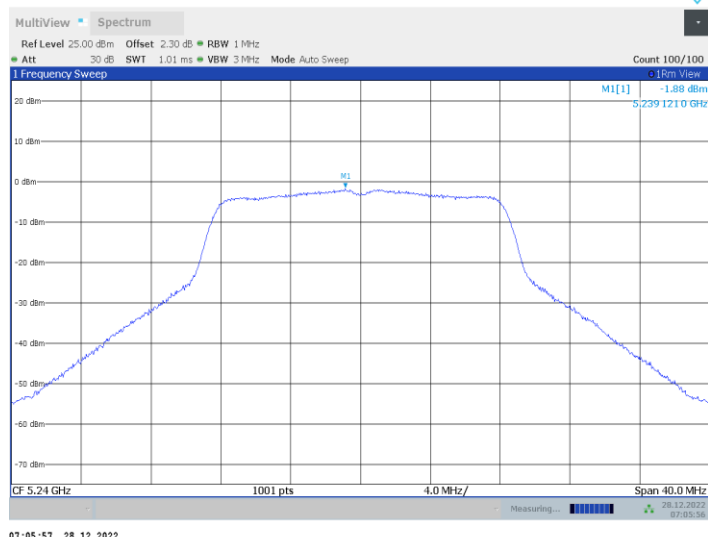
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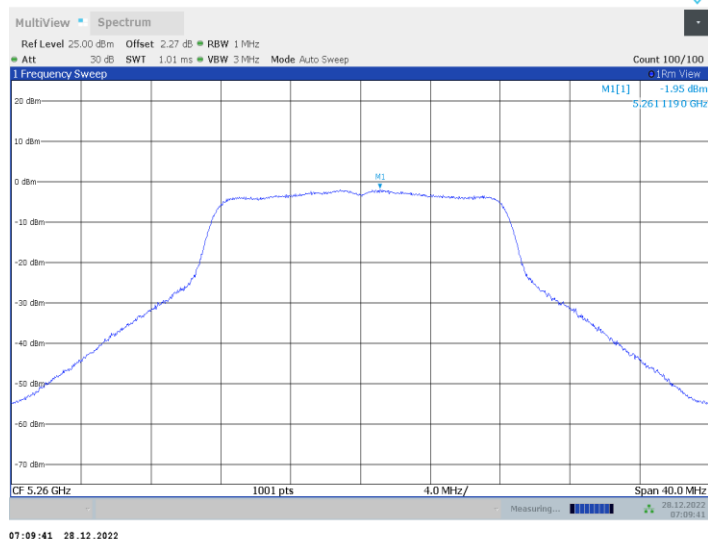
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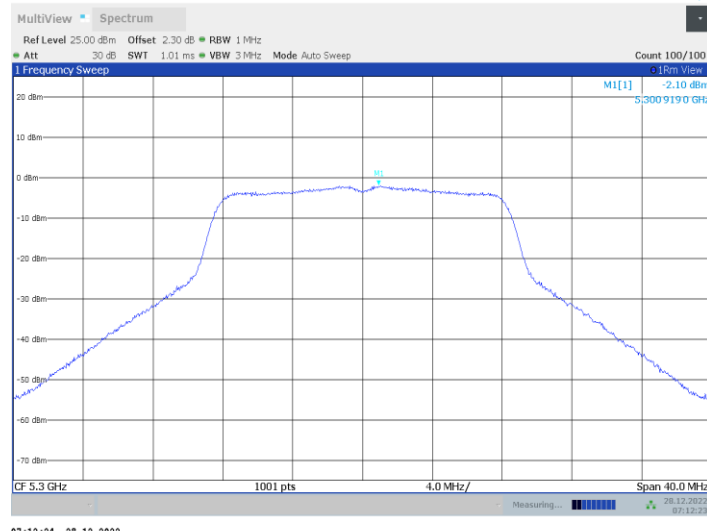
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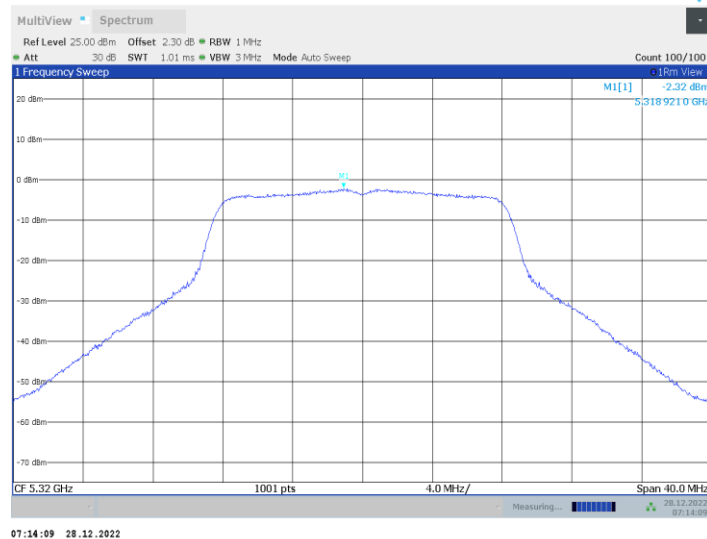
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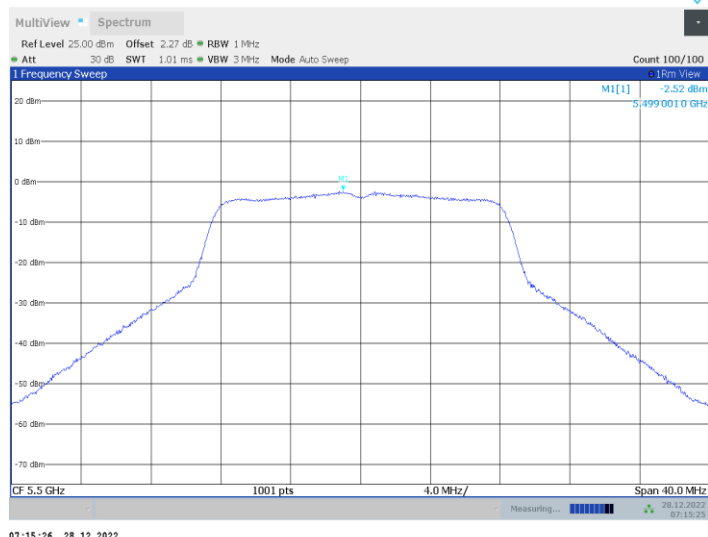
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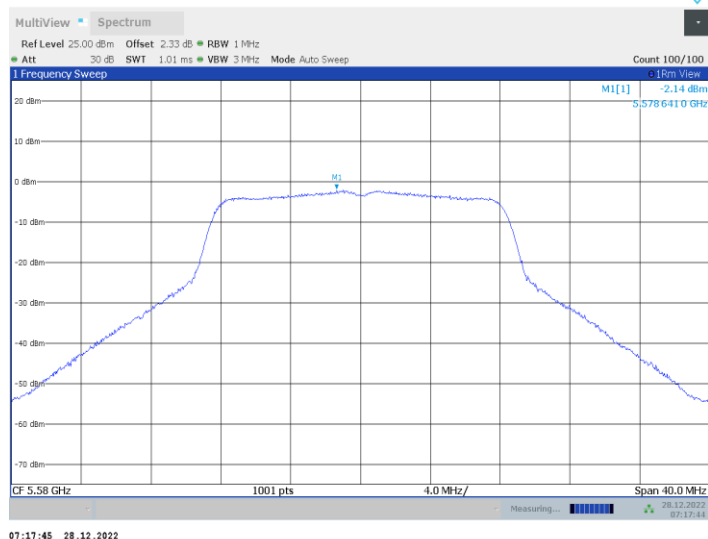
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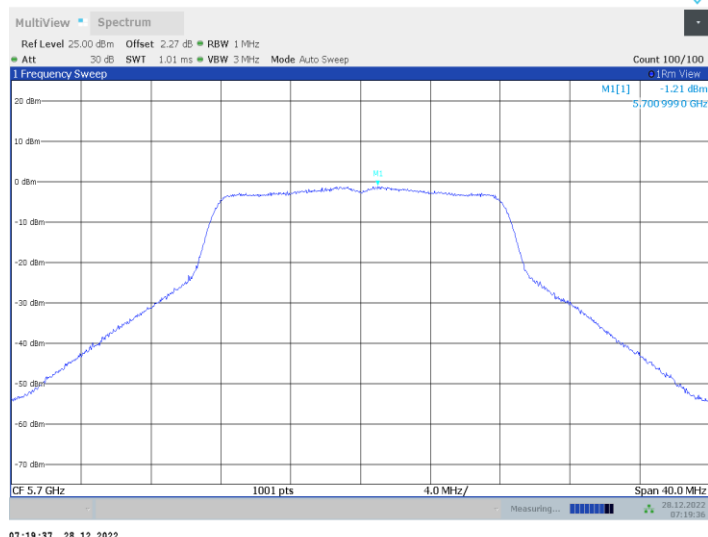
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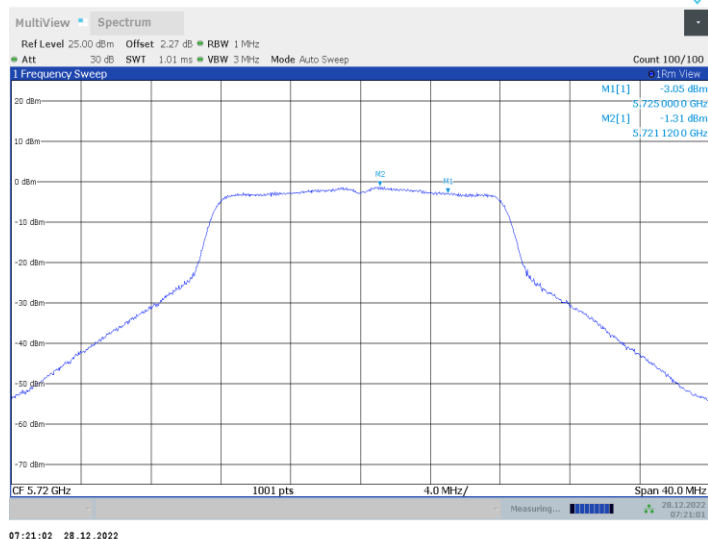
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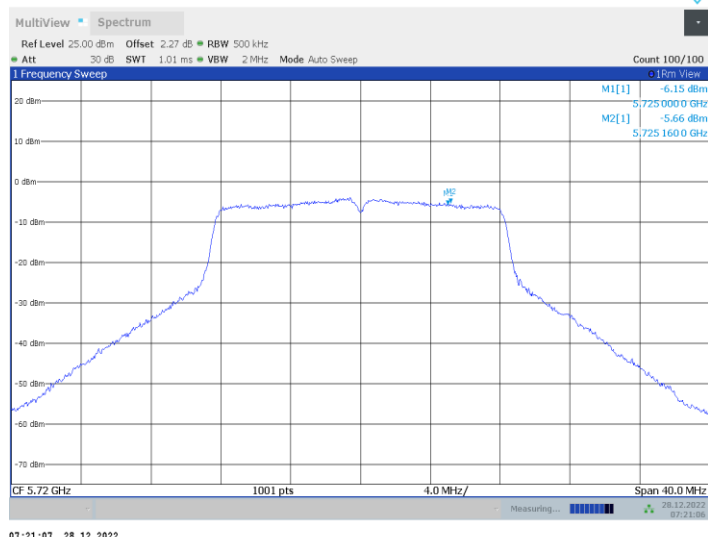
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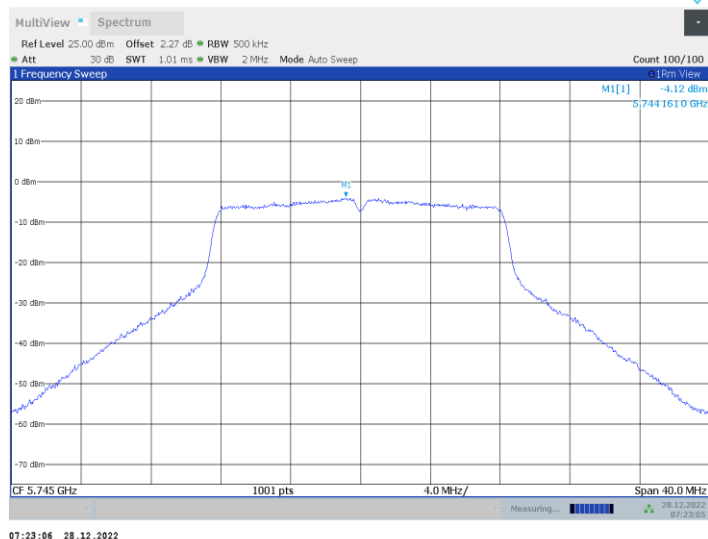
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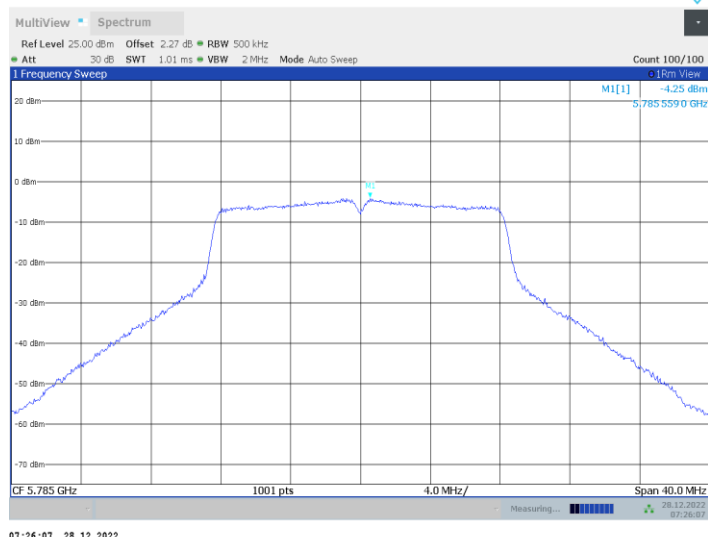
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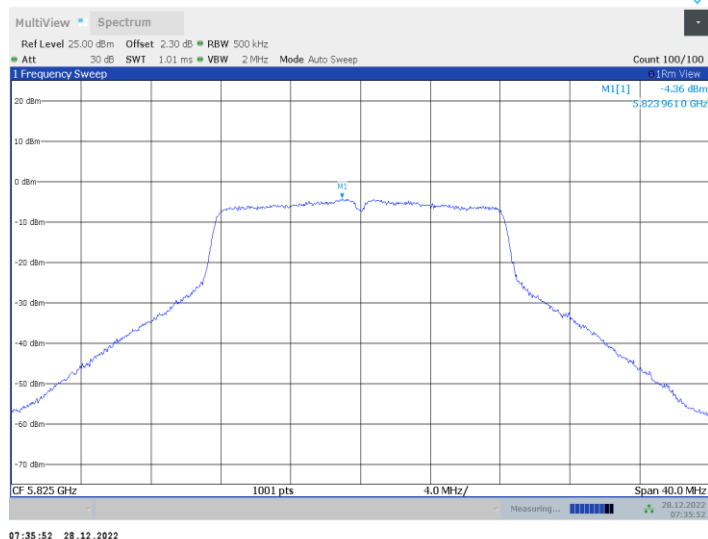
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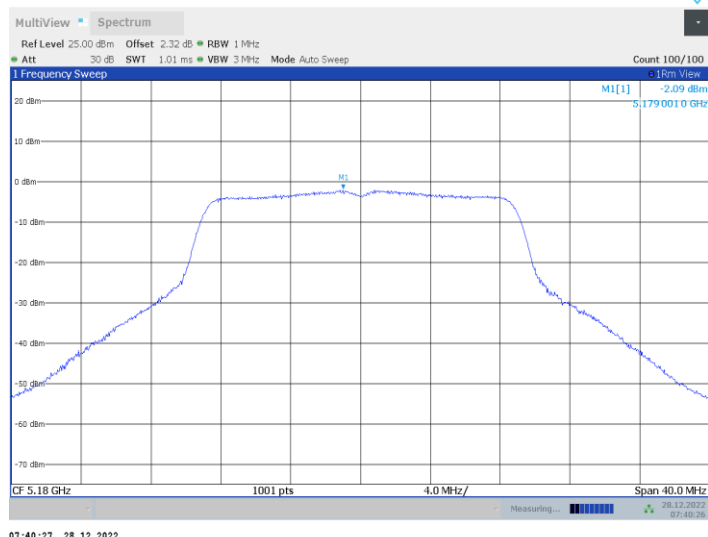
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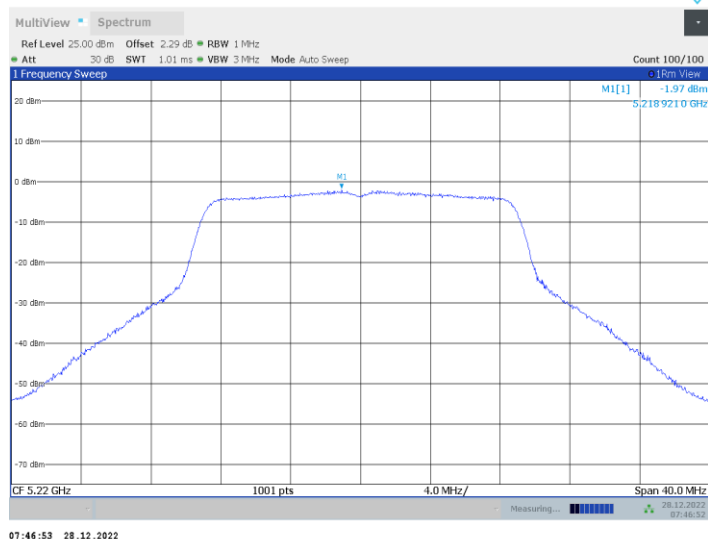
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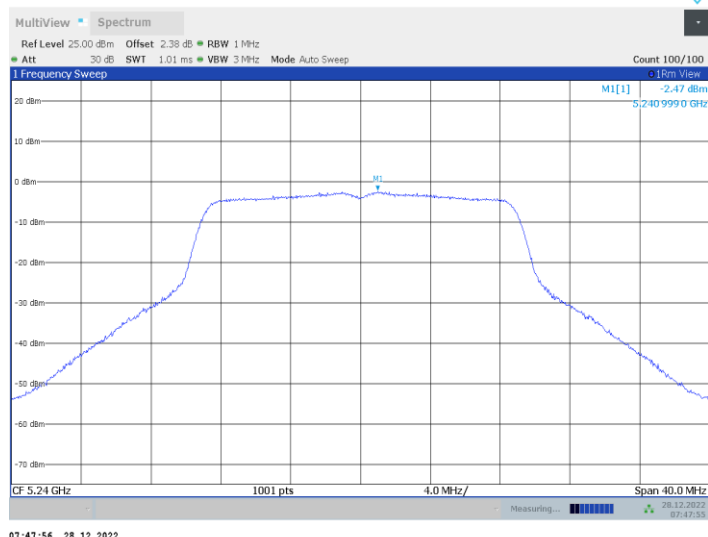
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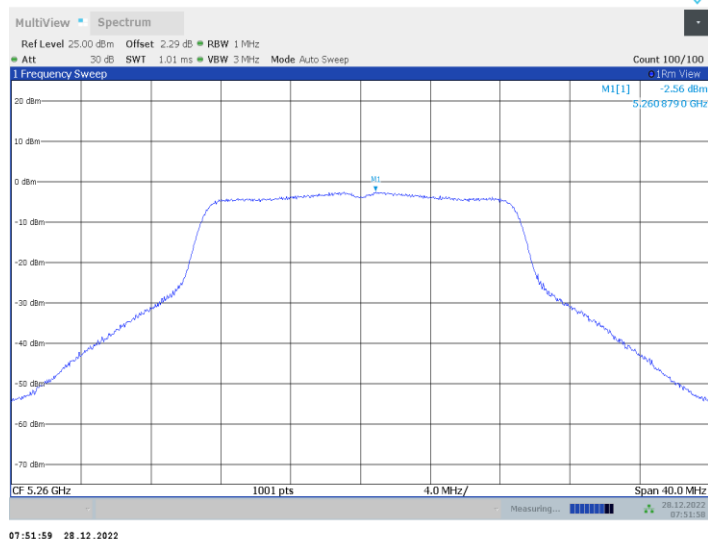
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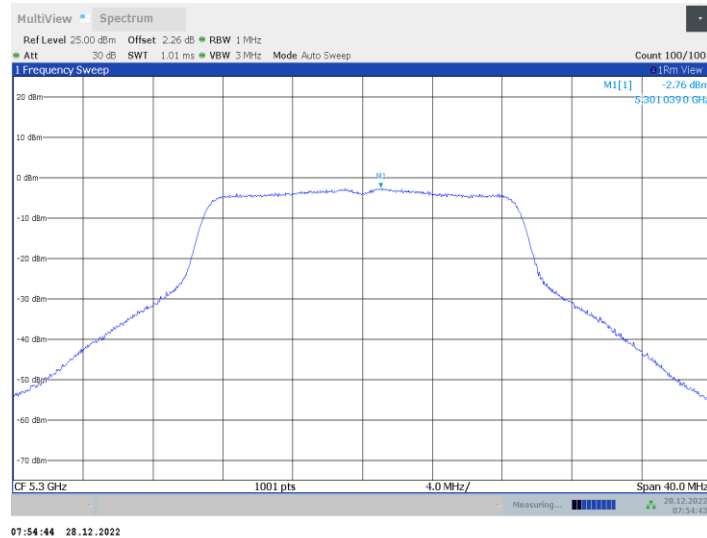


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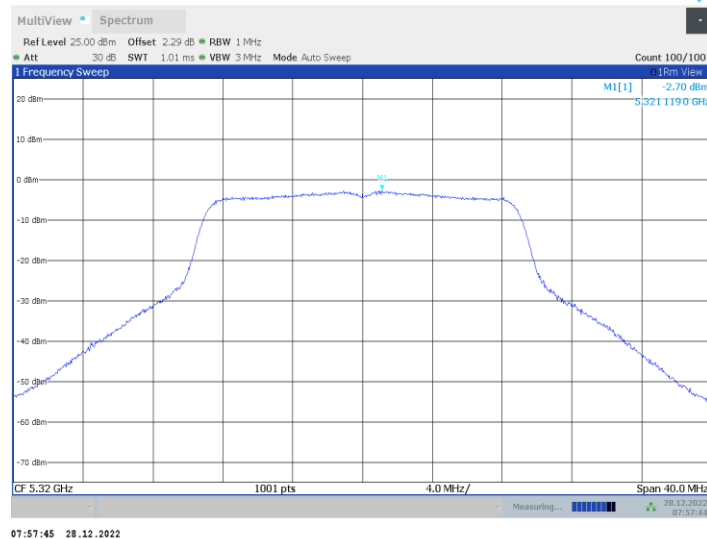
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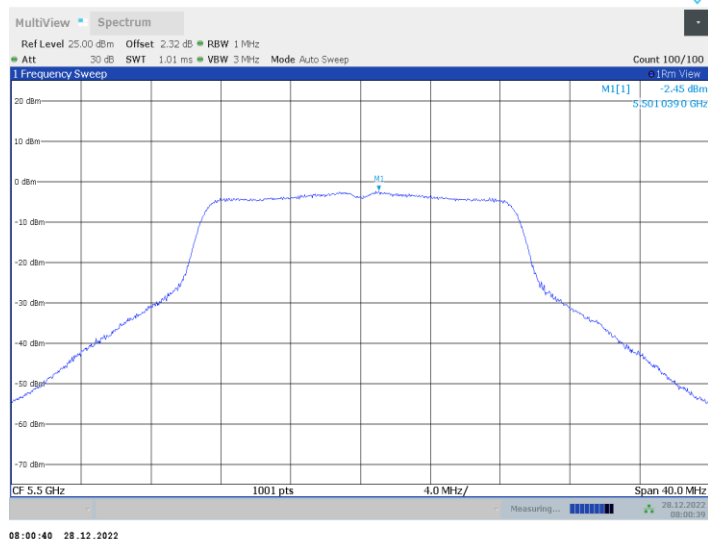
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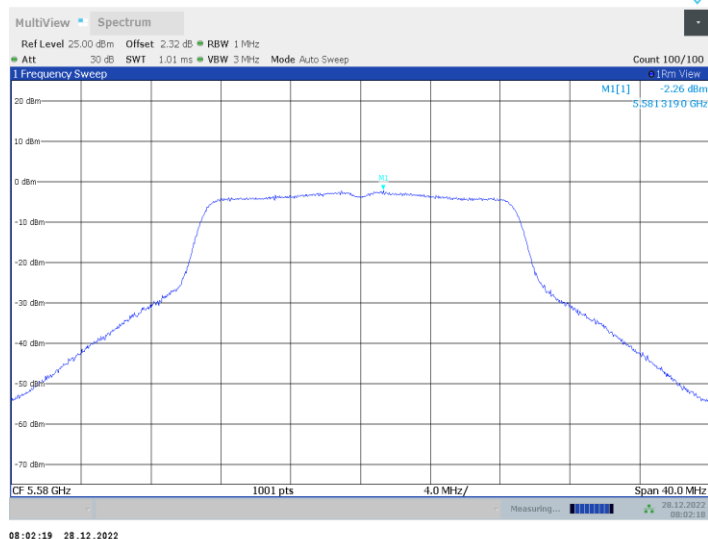
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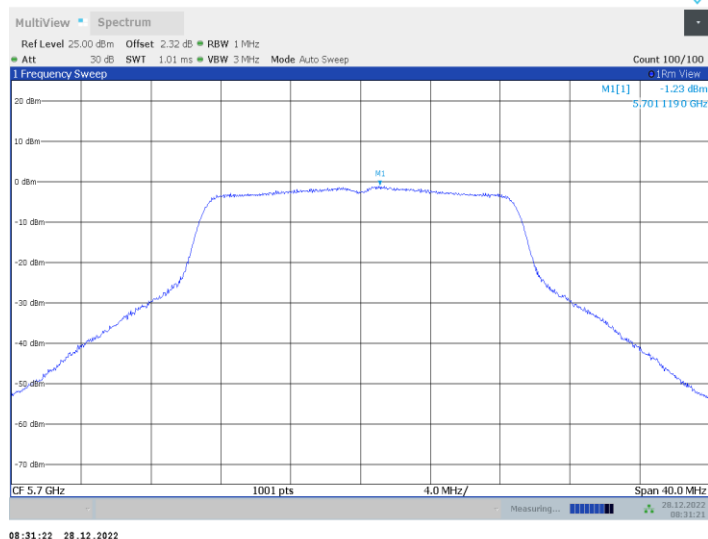
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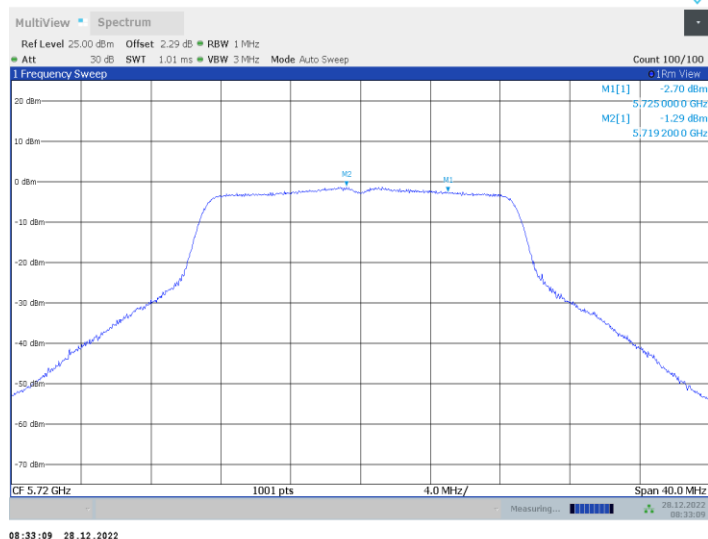
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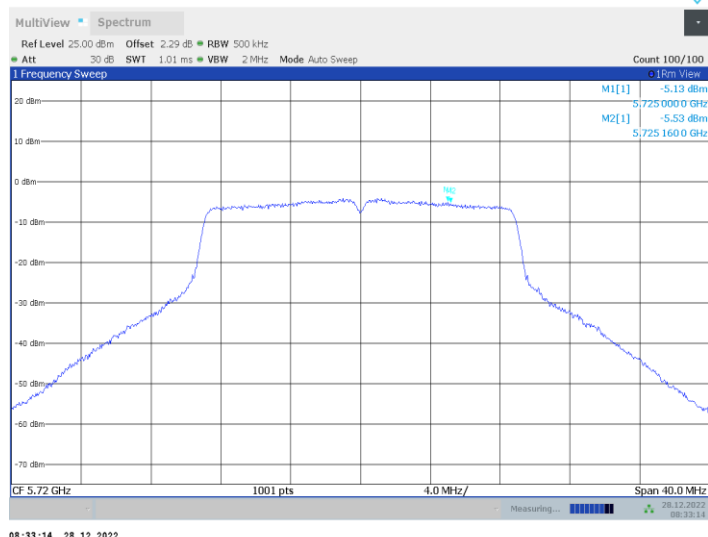
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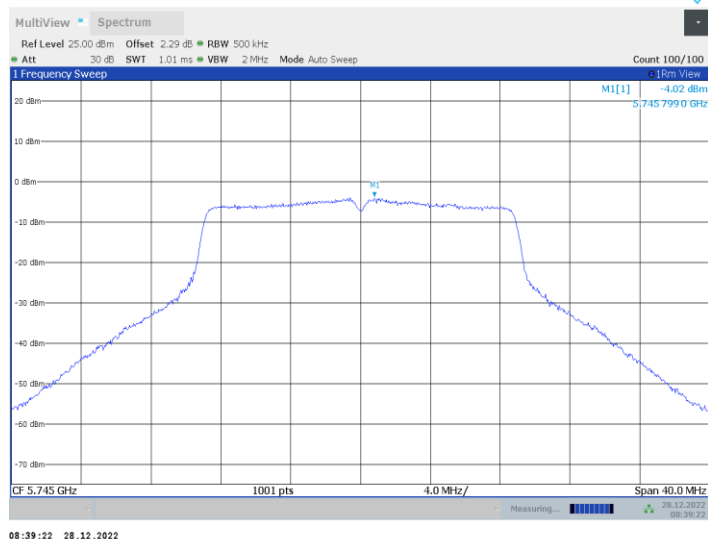
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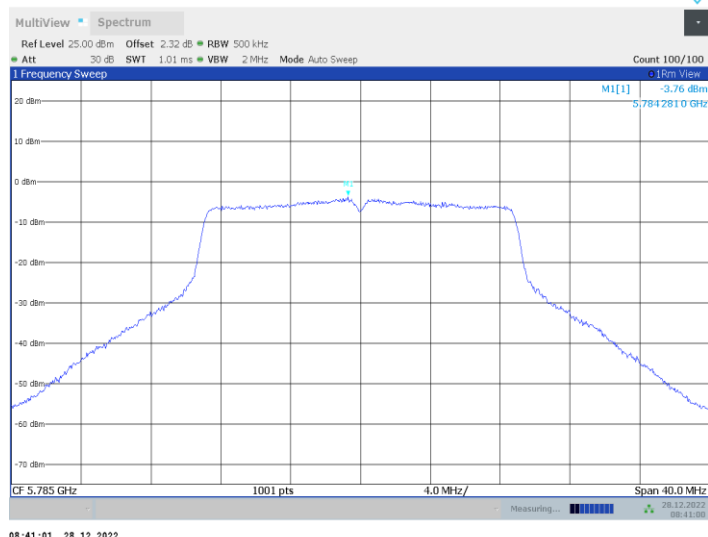
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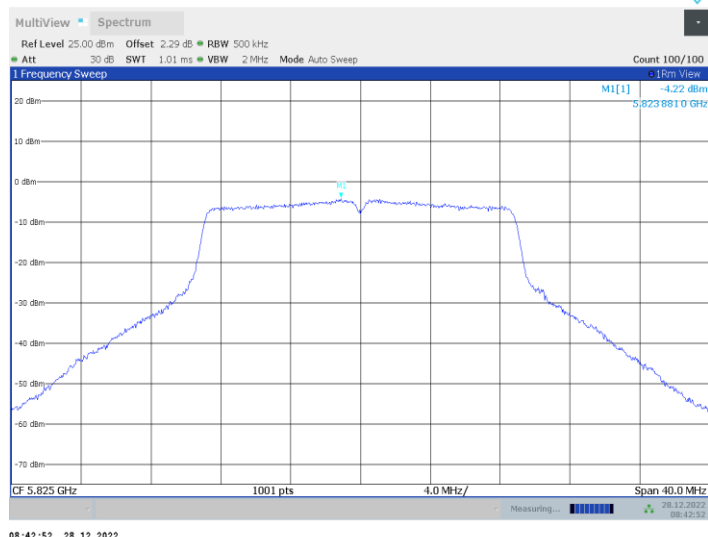
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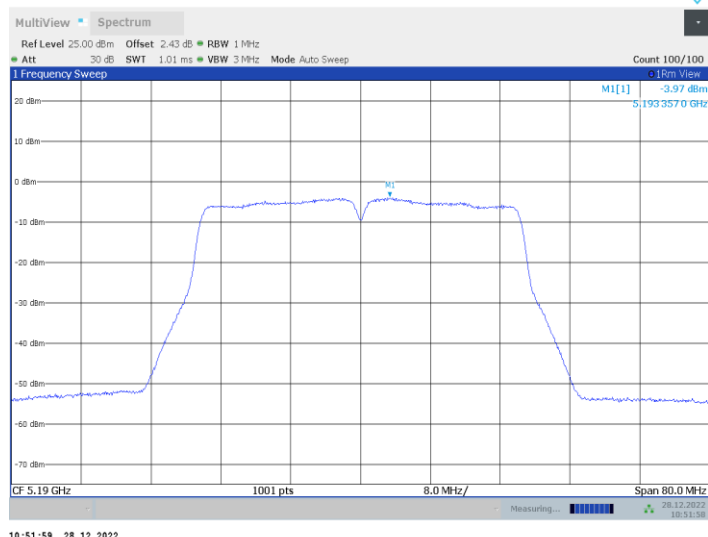
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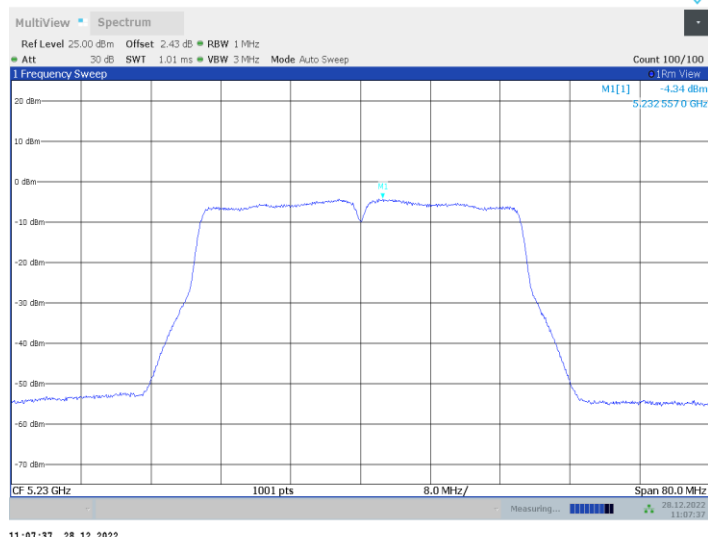
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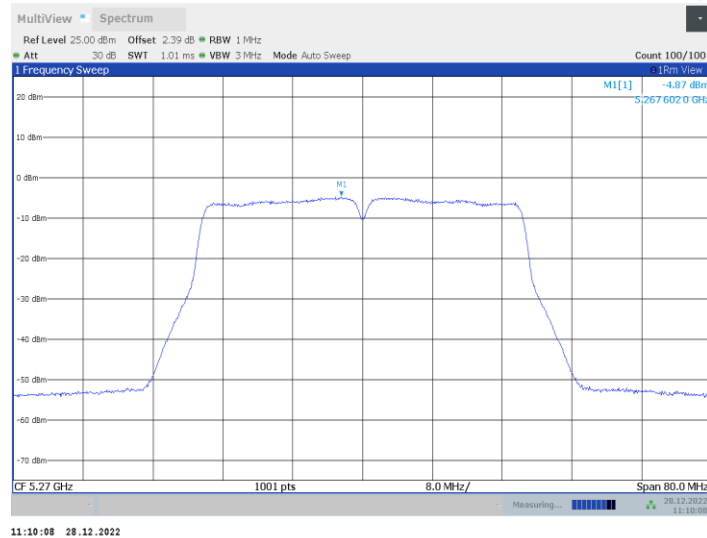
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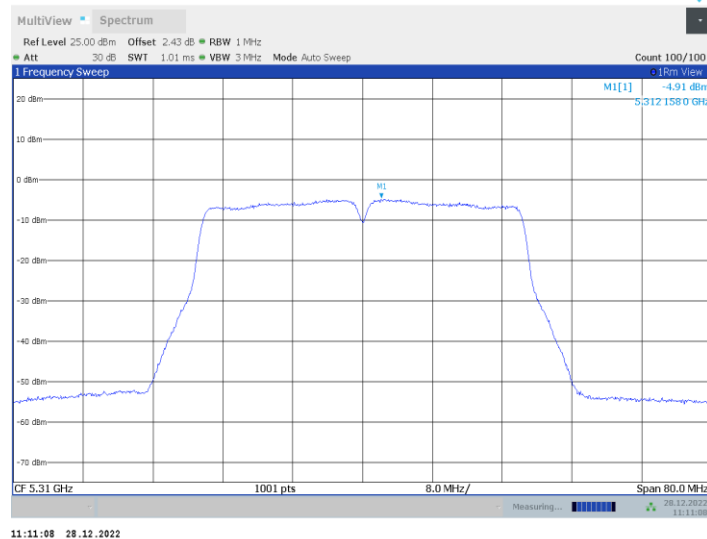
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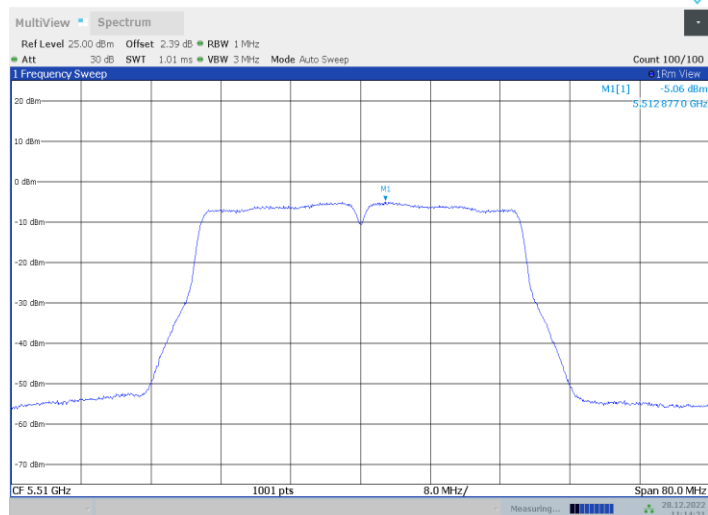
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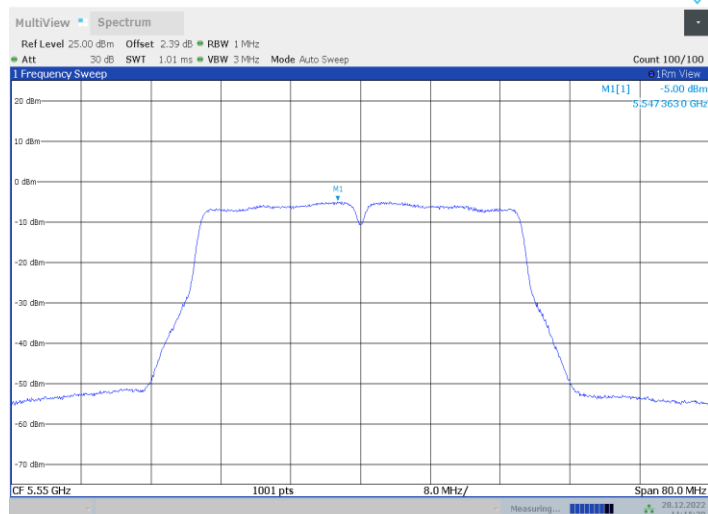
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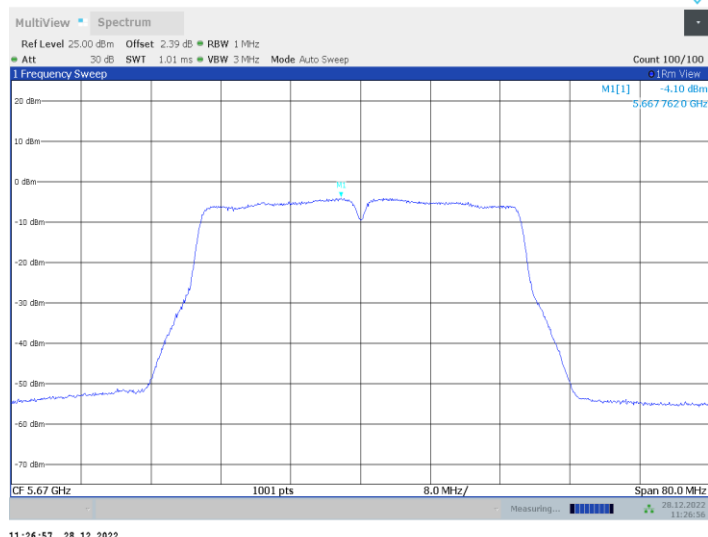
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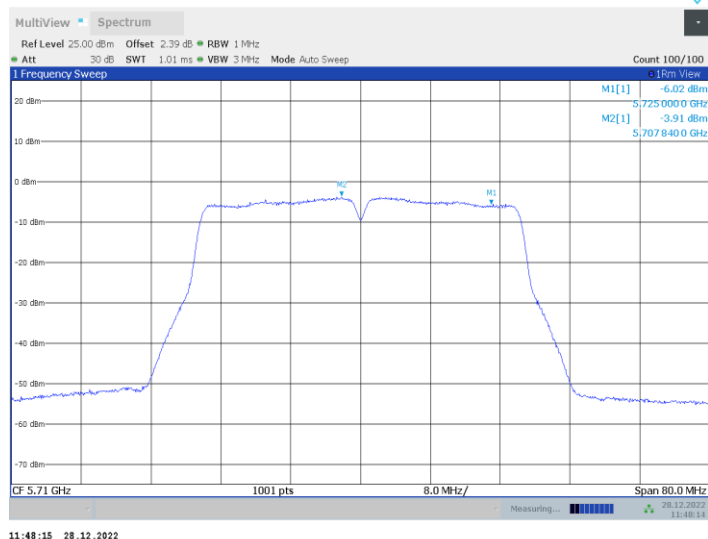
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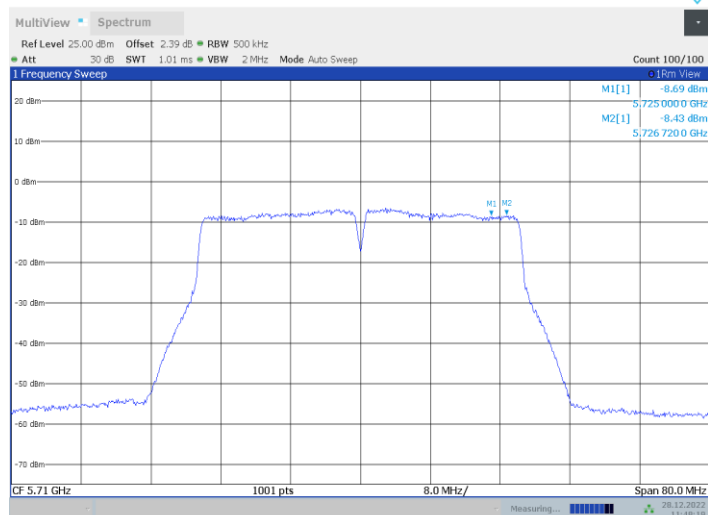
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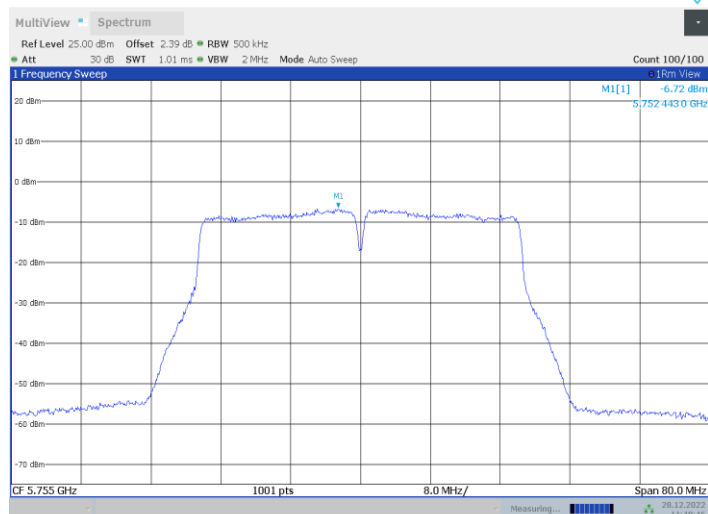
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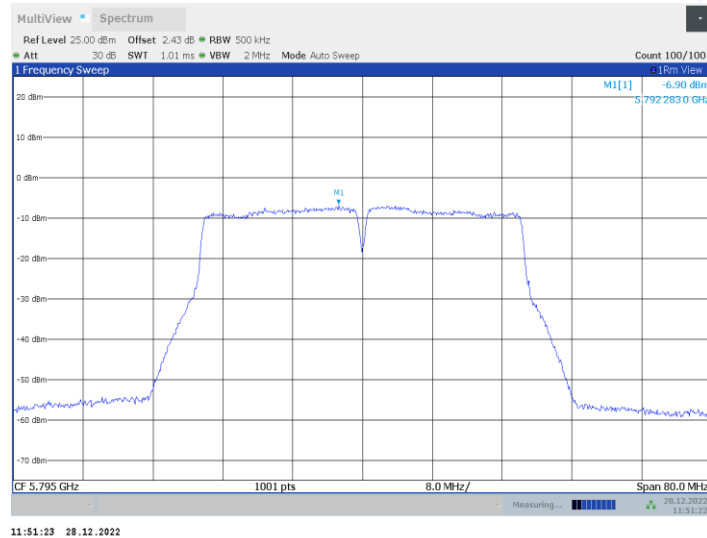
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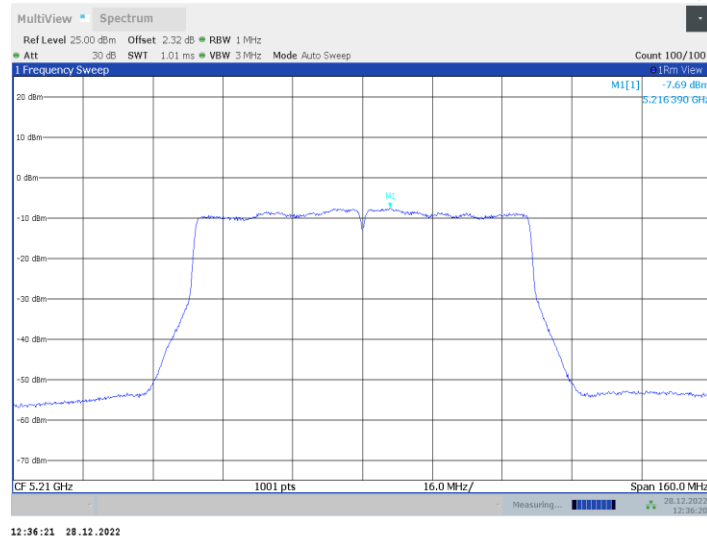
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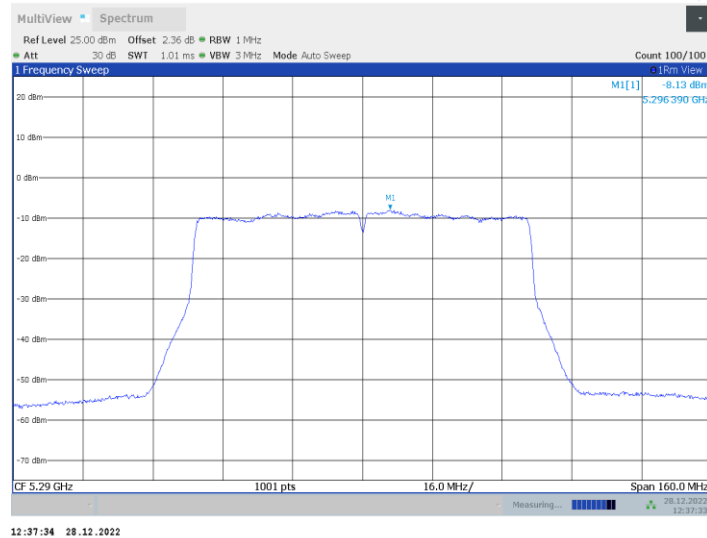
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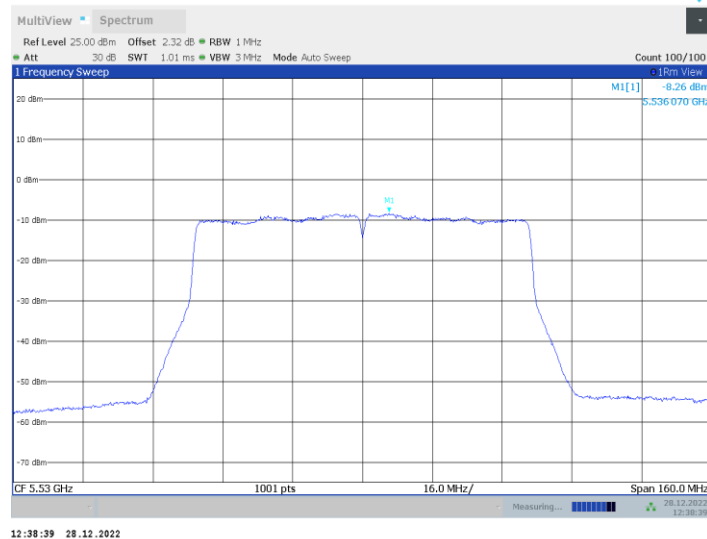
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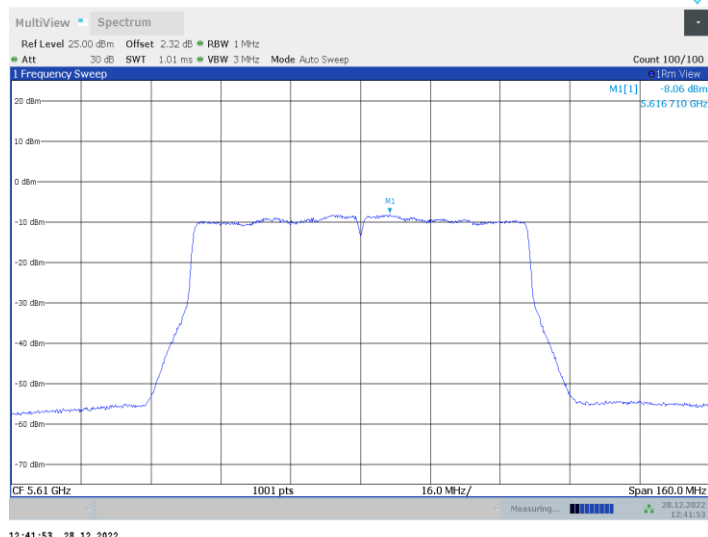
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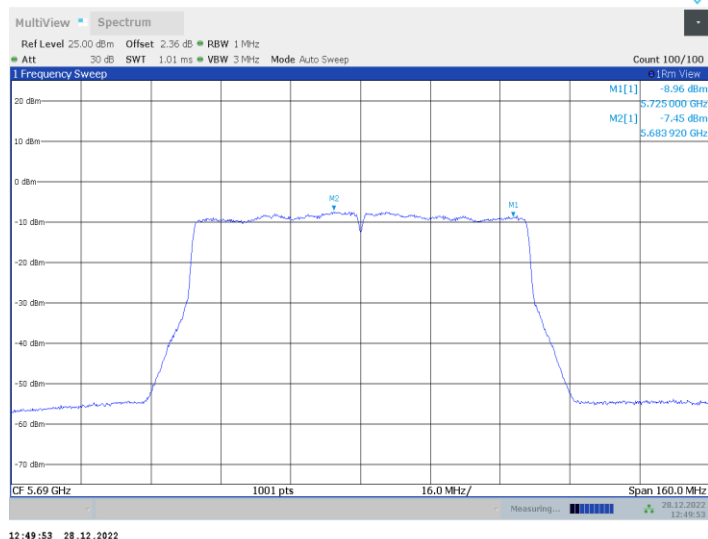
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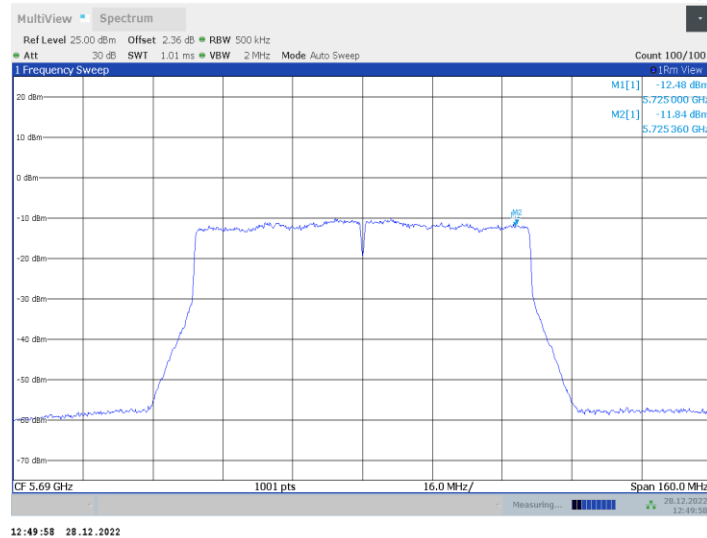
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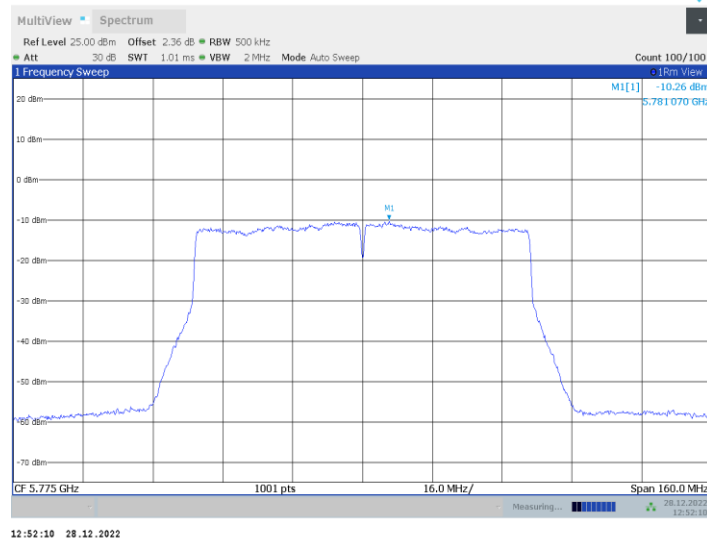
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Data Traffic Plot

Test Graphs

For PY7-51629L(parent model) data:



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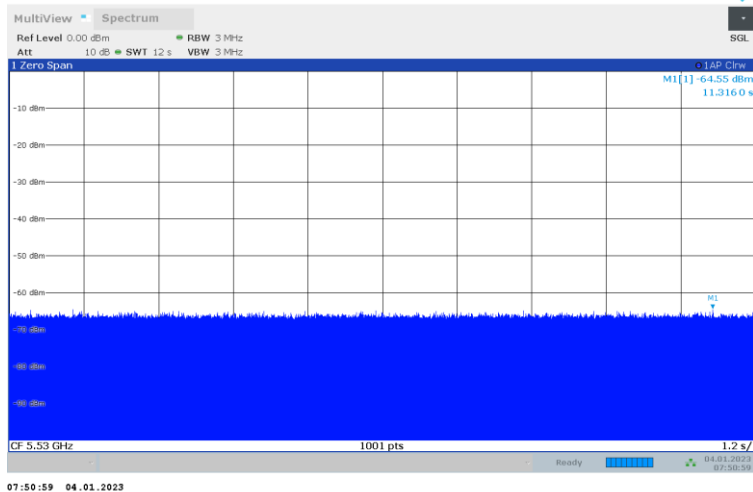
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Without—11ac80SISO_5530



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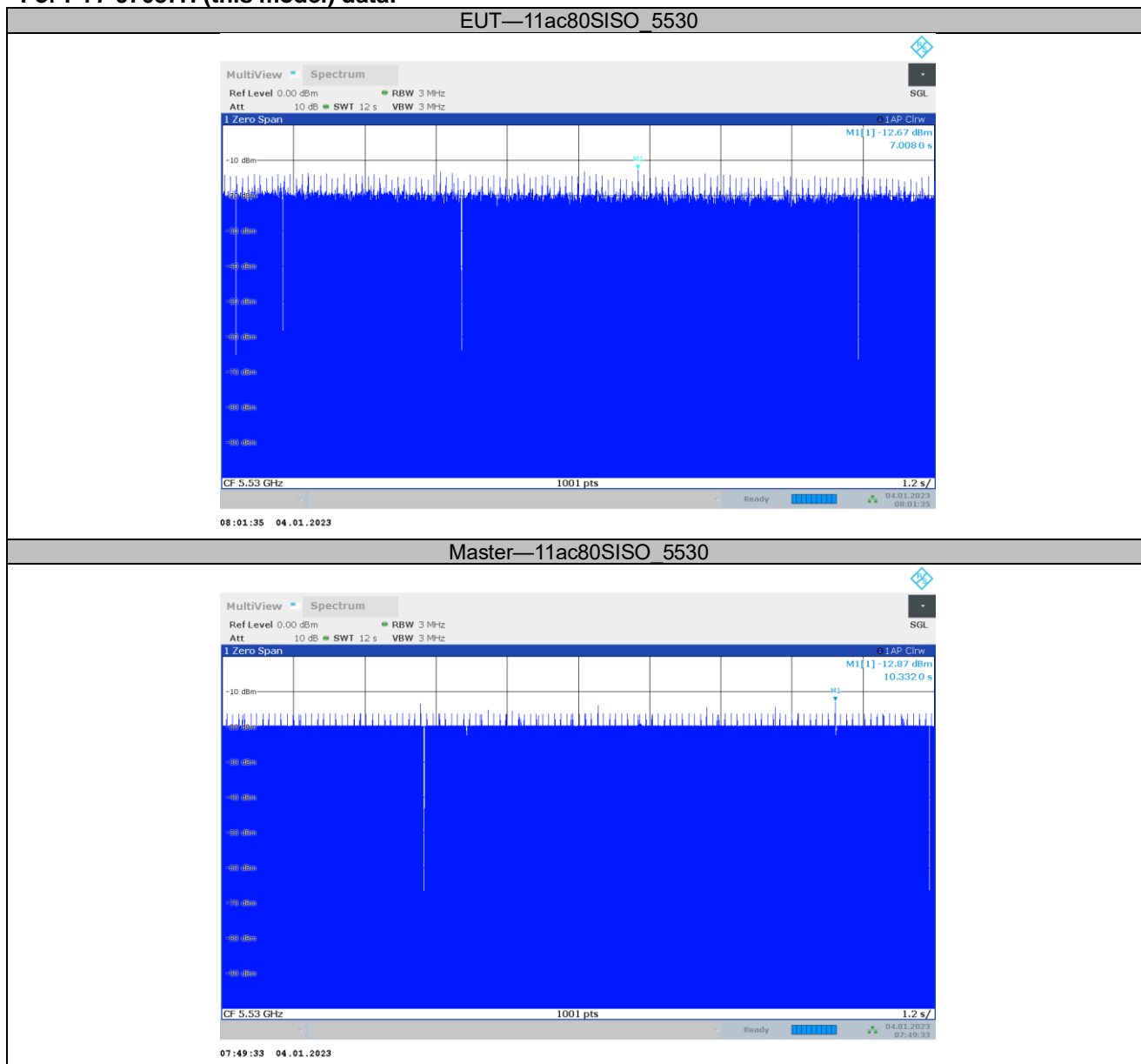
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For PY7-97087H (this model) data:



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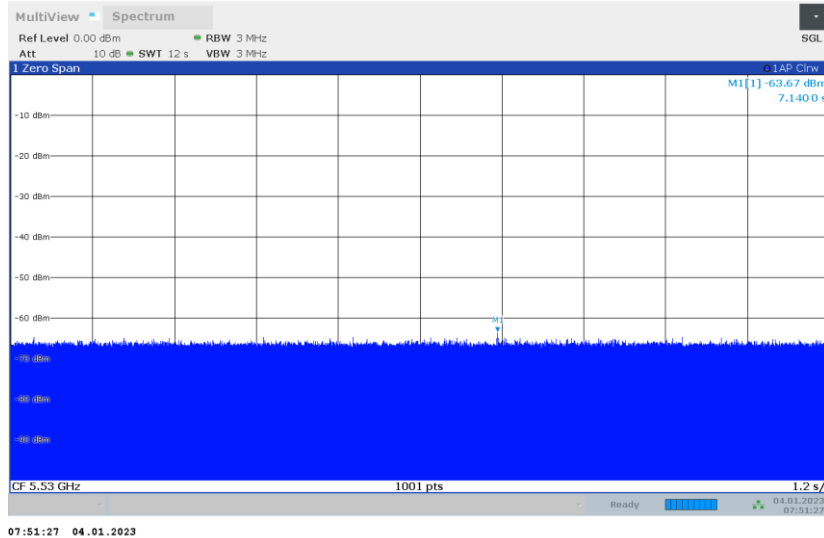
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Channel Move Time and Channel Closing Transmission Time Test Result

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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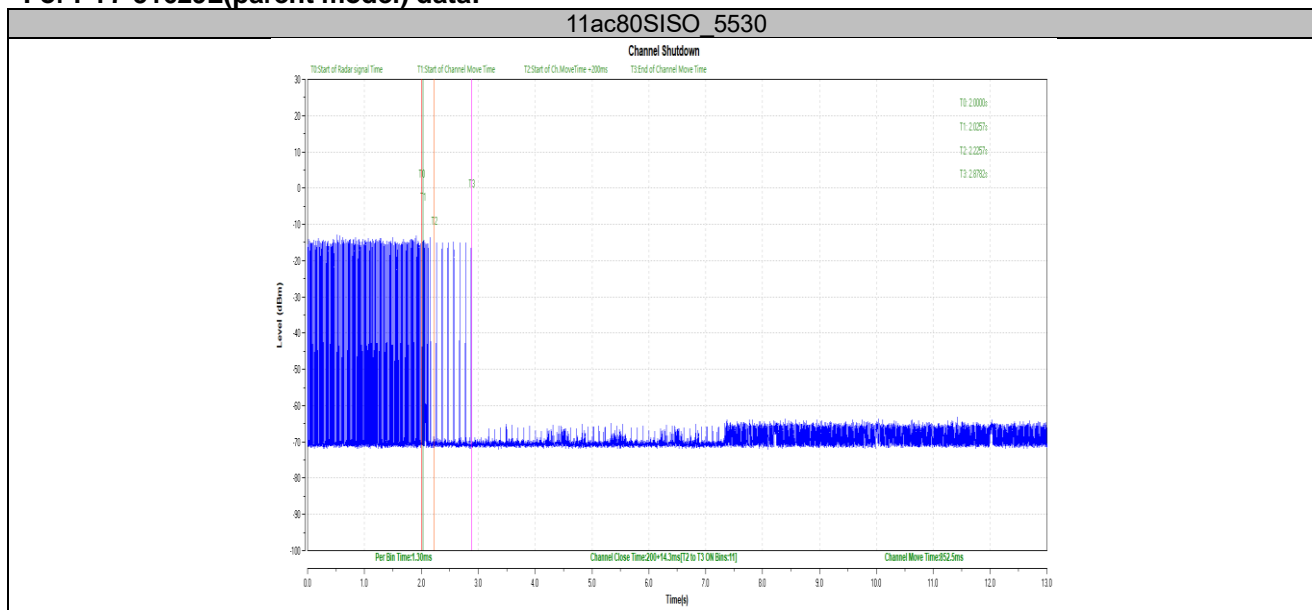
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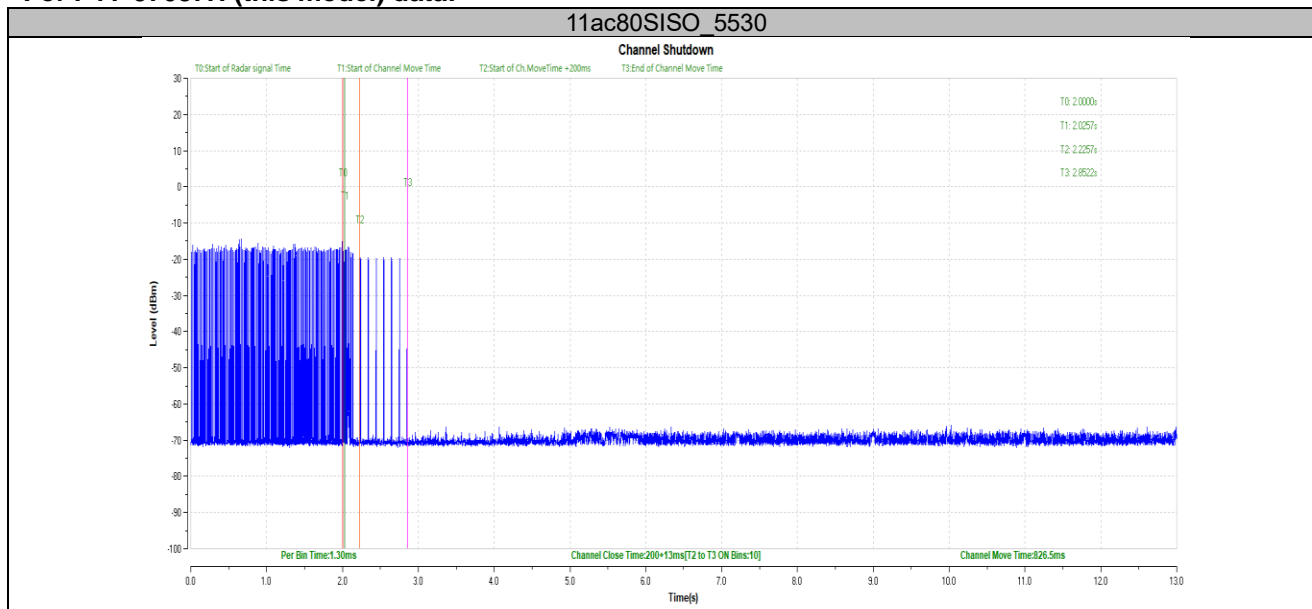
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Test Graphs

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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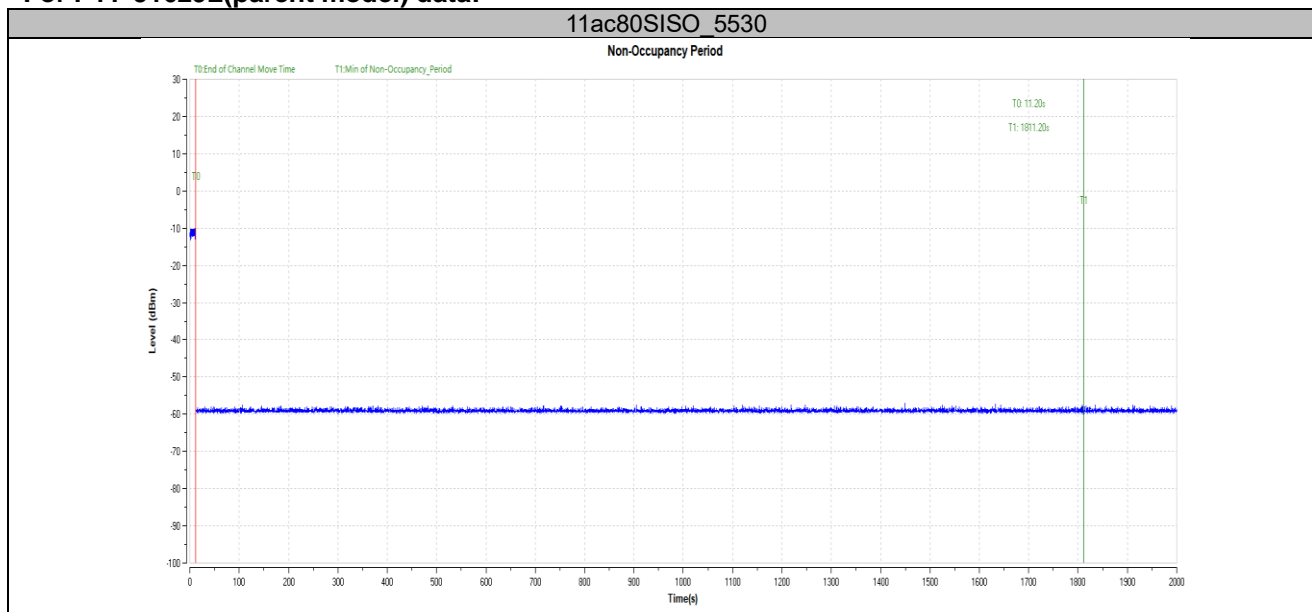
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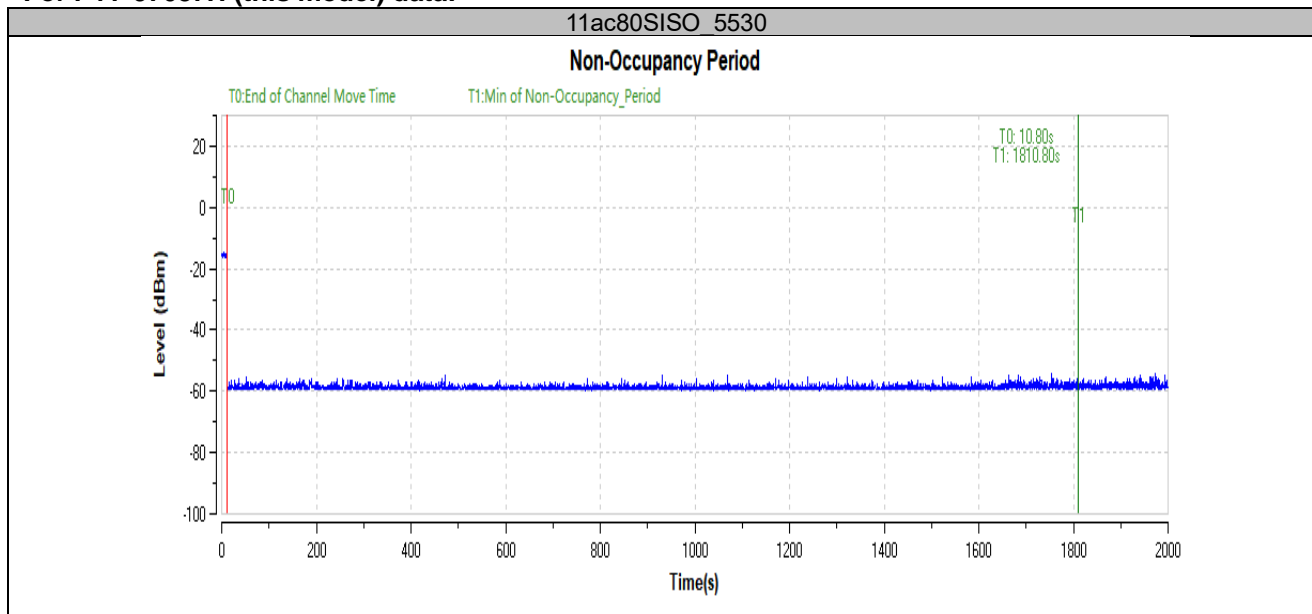
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Test Graphs

For PY7-51629L(parent model) data:



For PY7-97087H (this model) data:



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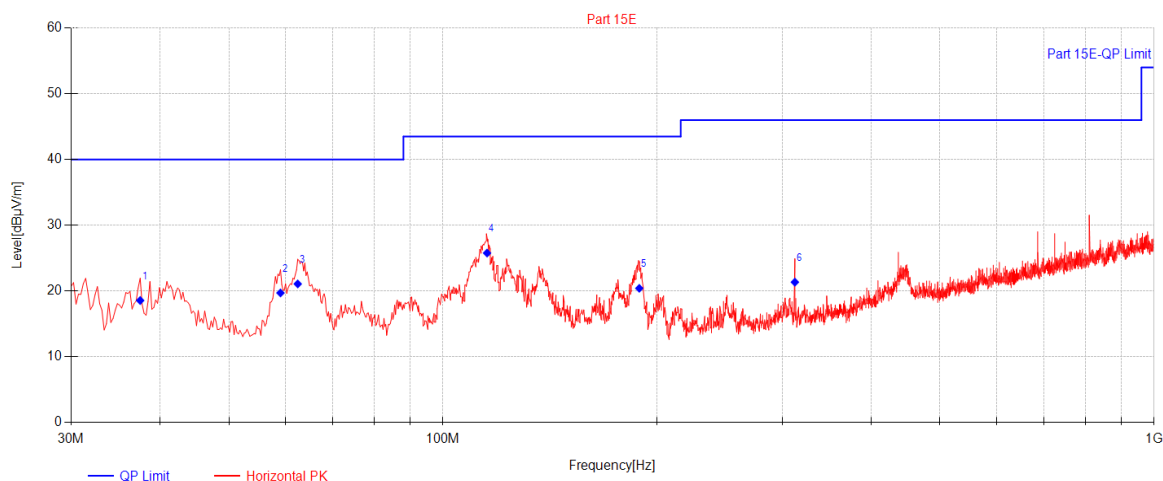
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Radiated Spurious Emissions

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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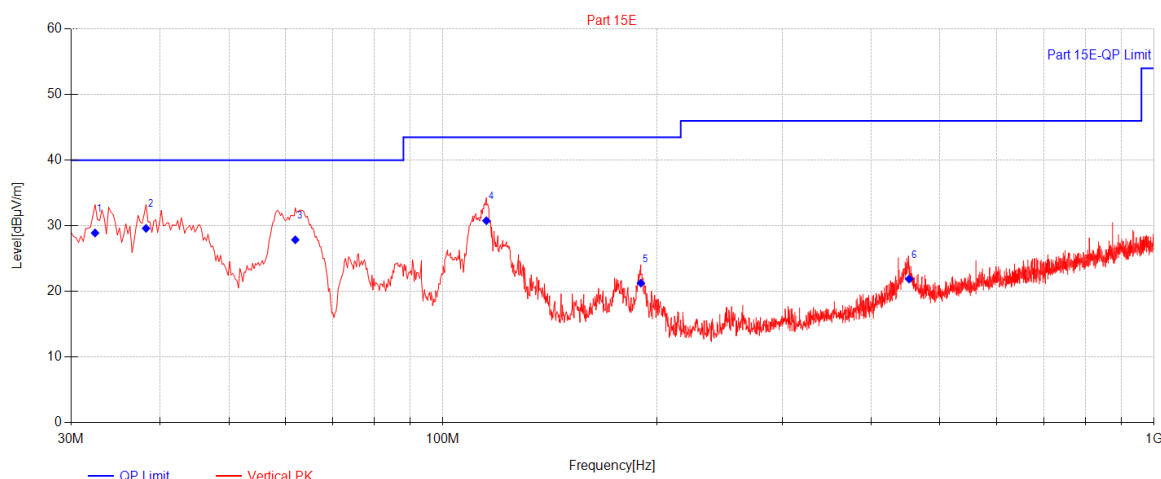
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Final Data List

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:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading(dBμV) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit(dBμV/m) – Value(dBμV/m)

- 2) All channels have been tested, but only the worst case data displayed in this report.



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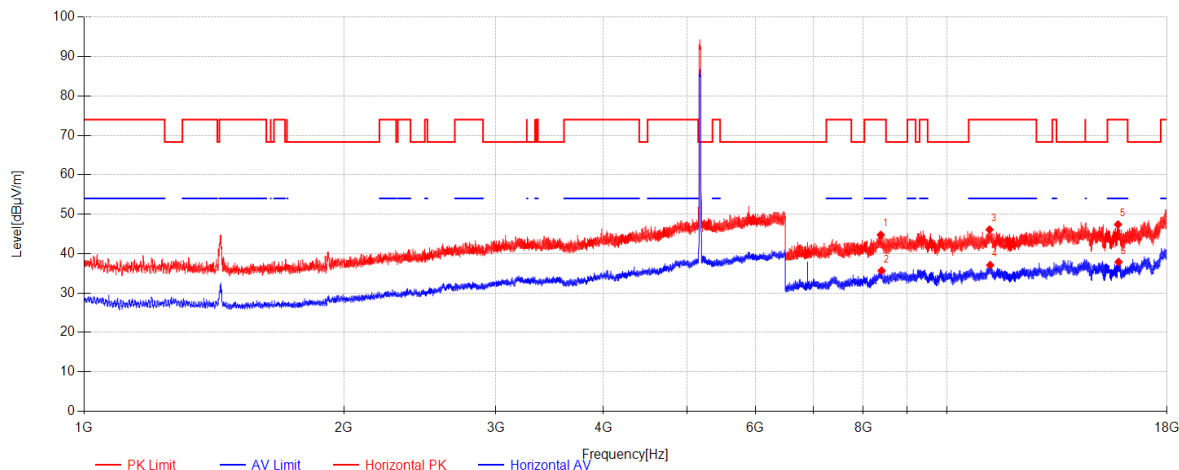
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Transmitter emission Above 1GHz

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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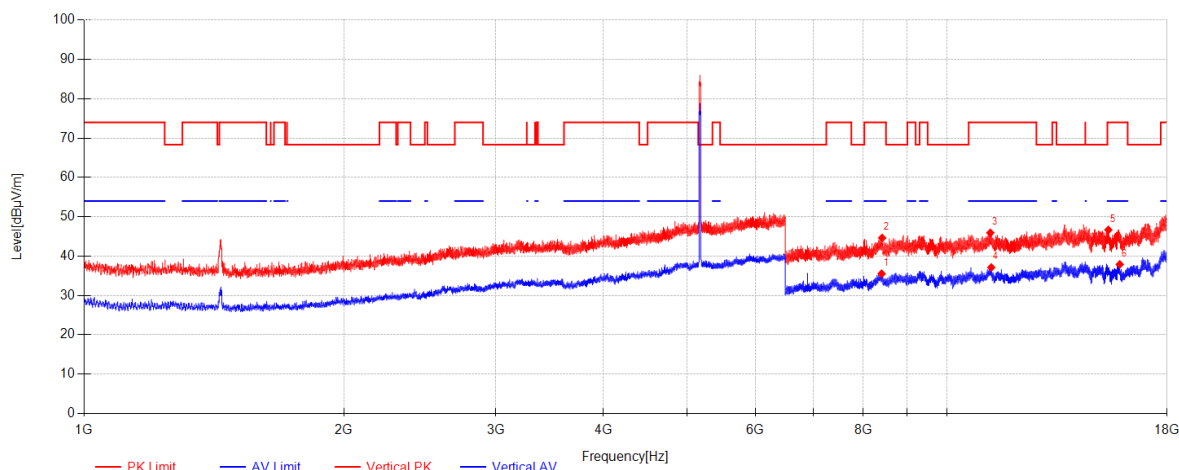
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802.11a_Channel 36



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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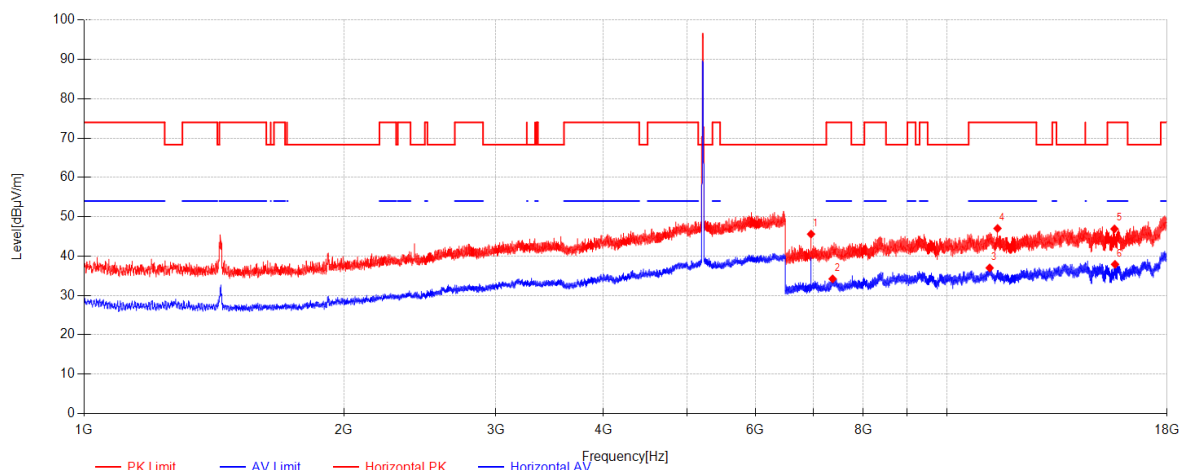
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802.11a_Channel 44



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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Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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