

RF Test Data for 5G Wi-Fi (Conducted Measurements)

General Description of EUT	
EUT Name:	Portable Gaming Computer(Tablet computer)
Model:	AYANEO Pocket AIR Mini
Sample ID:	HC-C-202508-0137-01-03-2#
Test Standard:	FCC Part 15.407
Environmental Conditions	
Ambient Temperature:	25℃
Ambient Humidity:	45%RH
Test Power Supply:	DC 3.8V
Test Engineer:	Gold. zhang
Note: For a more detailed features description, please refer to the report TBR-C-202508-0137-153	

Contents

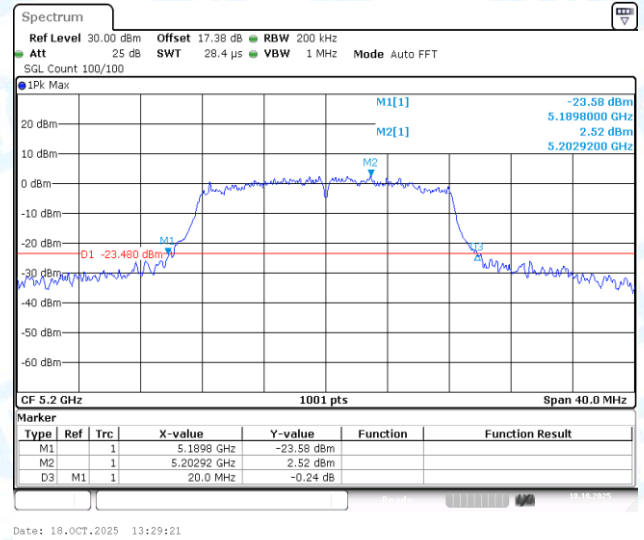
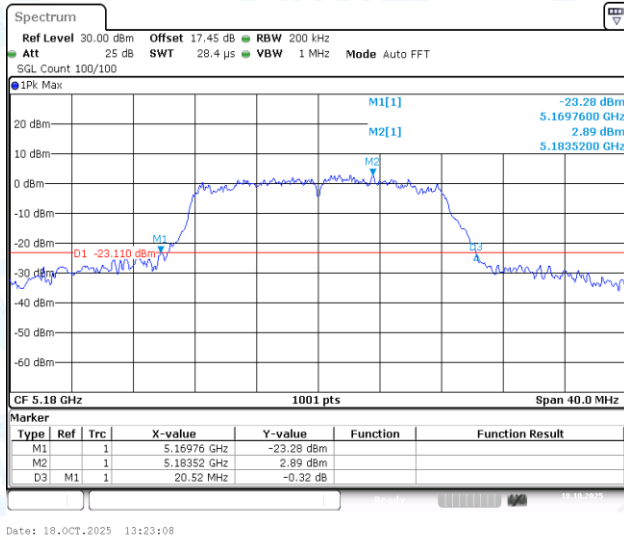
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1: Emission Bandwidth

1.1 Test Result

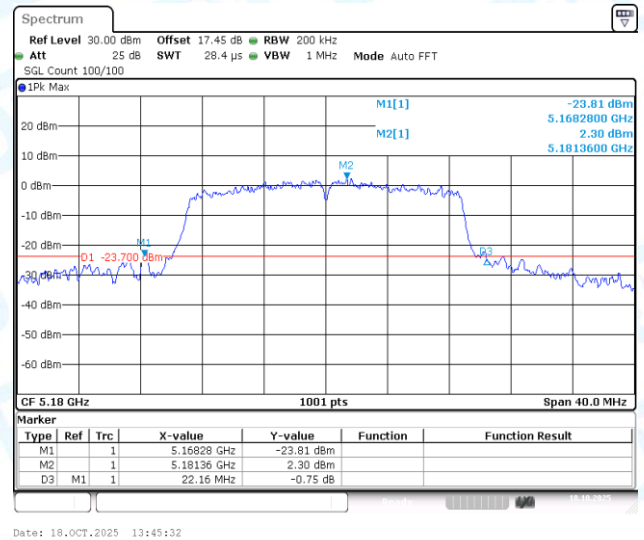
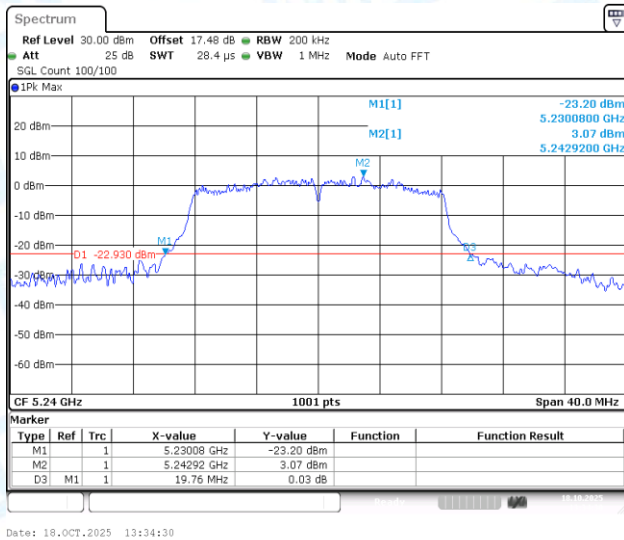
Test Mode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.52	5169.76	5190.28	---	---
11A	Ant1	5200	20.00	5189.80	5209.80	---	---
11A	Ant1	5240	19.76	5230.08	5249.84	---	---
11N20SISO	Ant1	5180	22.16	5168.28	5190.44	---	---
11N20SISO	Ant1	5200	20.40	5189.88	5210.28	---	---
11N20SISO	Ant1	5240	20.24	5230.00	5250.24	---	---
11N40SISO	Ant1	5190	40.16	5170.24	5210.40	---	---
11N40SISO	Ant1	5230	40.24	5209.76	5250.00	---	---
11AC20SISO	Ant1	5180	20.36	5169.64	5190.00	---	---
11AC20SISO	Ant1	5200	20.04	5190.00	5210.04	---	---
11AC20SISO	Ant1	5240	20.08	5230.20	5250.28	---	---
11AC40SISO	Ant1	5190	40.16	5169.92	5210.08	---	---
11AC40SISO	Ant1	5230	40.48	5209.60	5250.08	---	---
11AC80SISO	Ant1	5210	79.84	5170.16	5250.00	---	---

1.2 Test Graphs



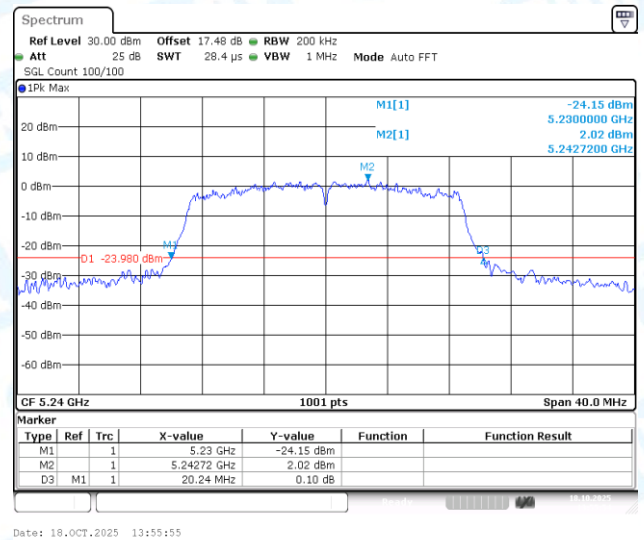
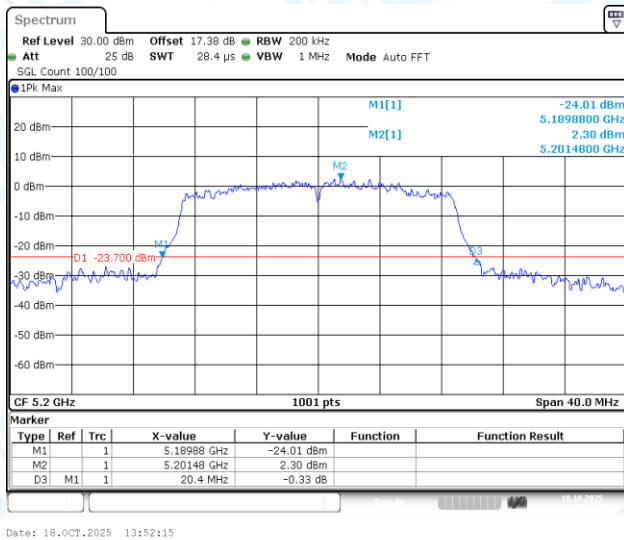
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11A-Ant1-5200



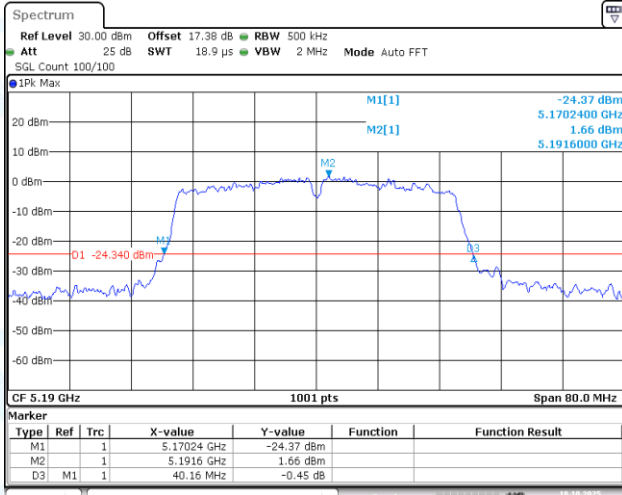
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11N20SISO-Ant1-5180

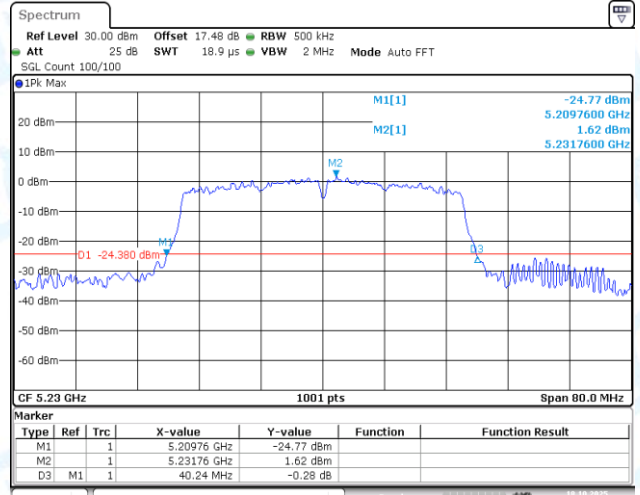


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11N20SISO-Ant1-5240



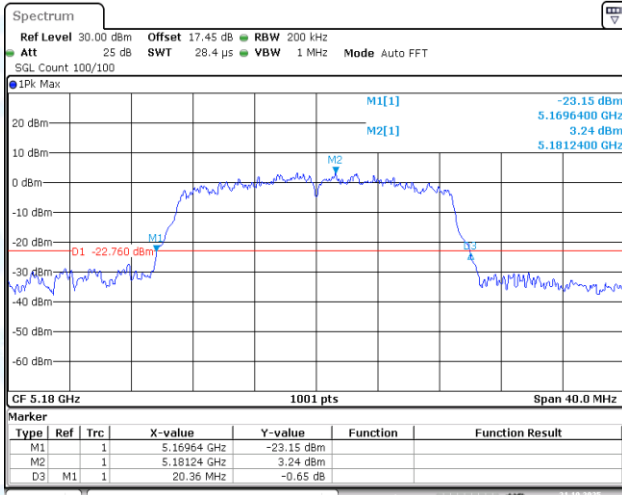
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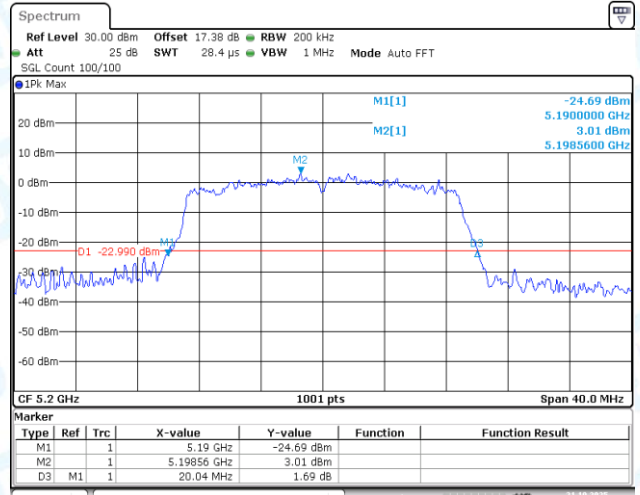
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11N40SISO-Ant1-5230



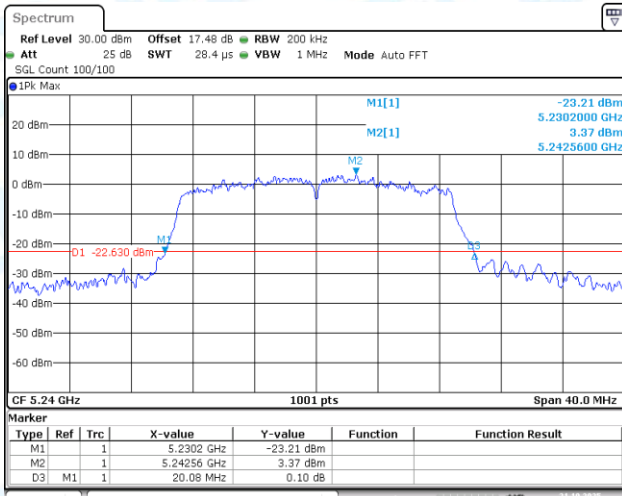
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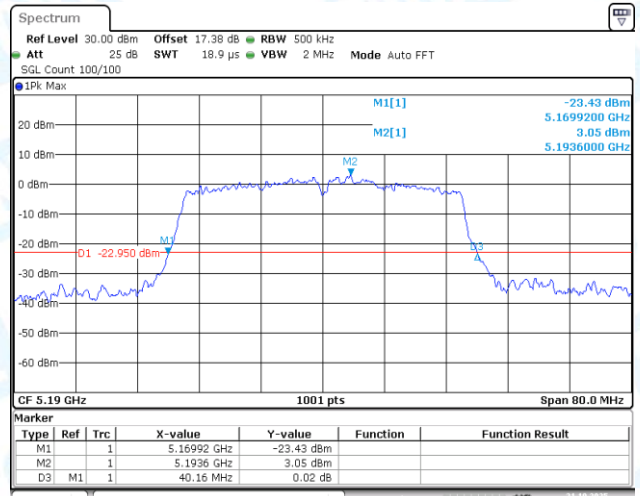
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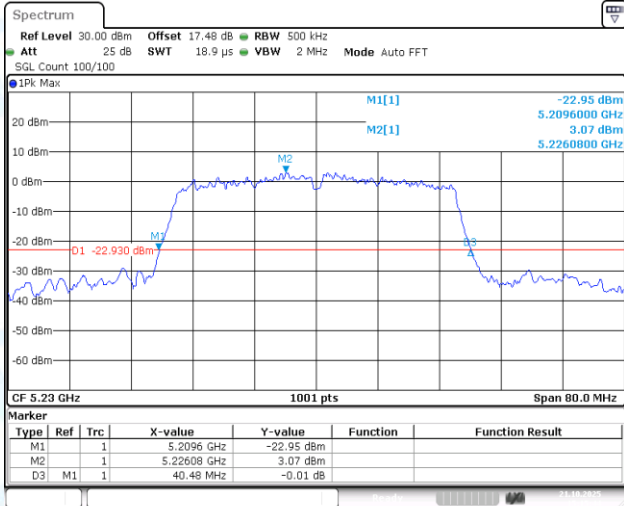
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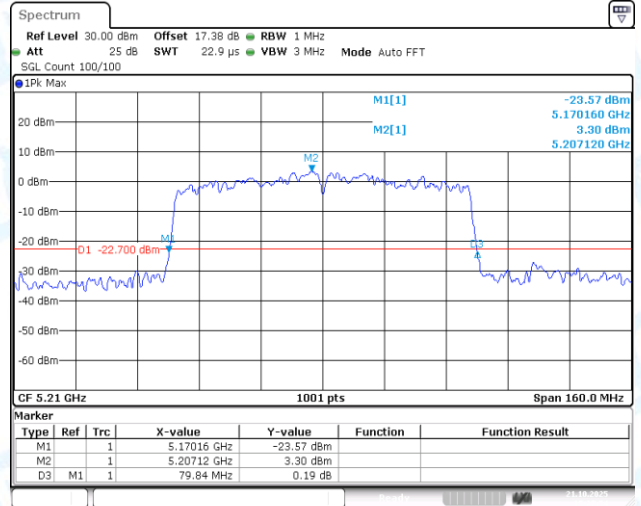
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11AC20SISO-Ant1-5240

11AC40SISO-Ant1-5190



11AC40SISO-Ant1-5230



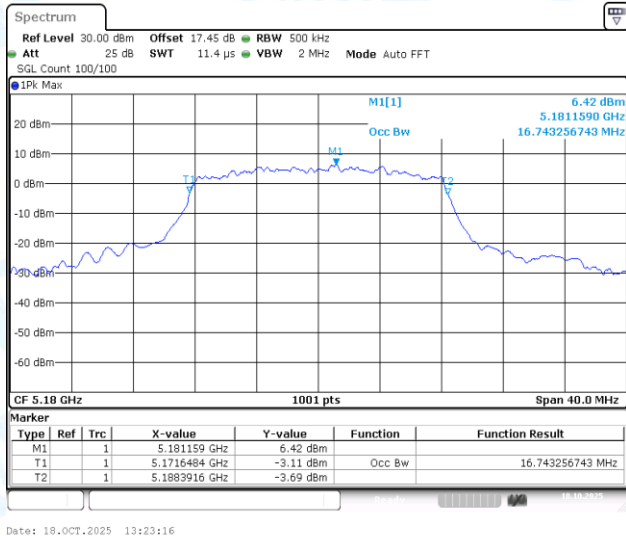
11AC80SISO-Ant1-5210

2: Occupied channel bandwidth

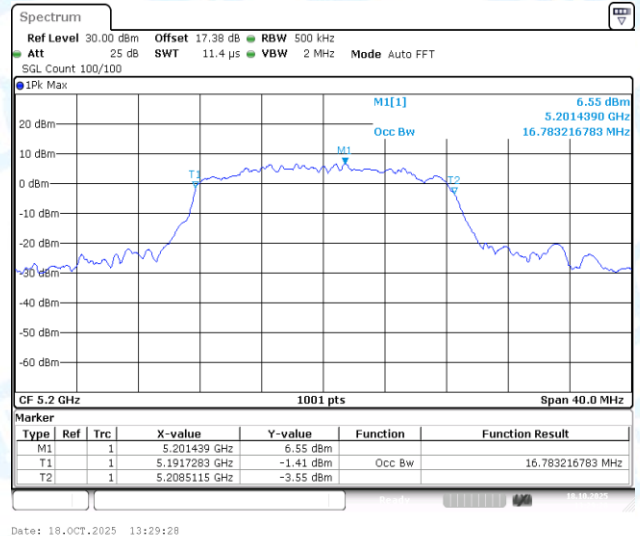
2.1 Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.743	5171.6484	5188.3916	---	---
11A	Ant1	5200	16.783	5191.7283	5208.5115	---	---
11A	Ant1	5240	16.623	5231.7682	5248.3916	---	---
11A	Ant1	5745	23.616	5733.3317	5756.9481	---	---
11A	Ant1	5785	24.176	5773.6114	5797.7872	---	---
11A	Ant1	5825	23.776	5813.0120	5836.7882	---	---
11N20SISO	Ant1	5180	18.102	5170.7692	5188.8711	---	---
11N20SISO	Ant1	5200	17.702	5191.0889	5208.7912	---	---
11N20SISO	Ant1	5240	17.742	5231.1289	5248.8711	---	---
11N20SISO	Ant1	5745	25.055	5732.2128	5757.2677	---	---
11N20SISO	Ant1	5785	25.455	5772.2128	5797.6673	---	---
11N20SISO	Ant1	5825	24.376	5812.3726	5836.7483	---	---
11N40SISO	Ant1	5190	36.284	5171.8581	5208.1419	---	---
11N40SISO	Ant1	5230	36.204	5211.8581	5248.0619	---	---
11N40SISO	Ant1	5755	51.149	5728.3067	5779.4555	---	---
11N40SISO	Ant1	5795	57.143	5766.3886	5823.5315	---	---
11AC20SISO	Ant1	5180	17.862	5171.0490	5188.9111	---	---
11AC20SISO	Ant1	5200	17.822	5191.0889	5208.9111	---	---
11AC20SISO	Ant1	5240	17.822	5231.0889	5248.9111	---	---
11AC20SISO	Ant1	5745	24.815	5732.6923	5757.5075	---	---
11AC20SISO	Ant1	5785	24.815	5772.1728	5796.9880	---	---
11AC20SISO	Ant1	5825	26.254	5812.3327	5838.5864	---	---
11AC40SISO	Ant1	5190	36.124	5171.8581	5207.9820	---	---
11AC40SISO	Ant1	5230	36.044	5212.0180	5248.0619	---	---
11AC40SISO	Ant1	5755	52.907	5727.5874	5780.4945	---	---
11AC40SISO	Ant1	5795	54.505	5767.1878	5821.6933	---	---
11AC80SISO	Ant1	5210	75.604	5172.2777	5247.8821	---	---
11AC80SISO	Ant1	5775	83.916	5730.0849	5814.0010	---	---

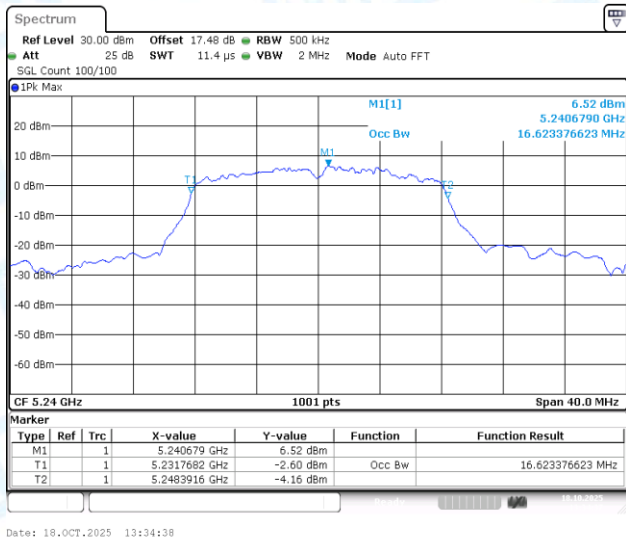
2.2 Test Graphs



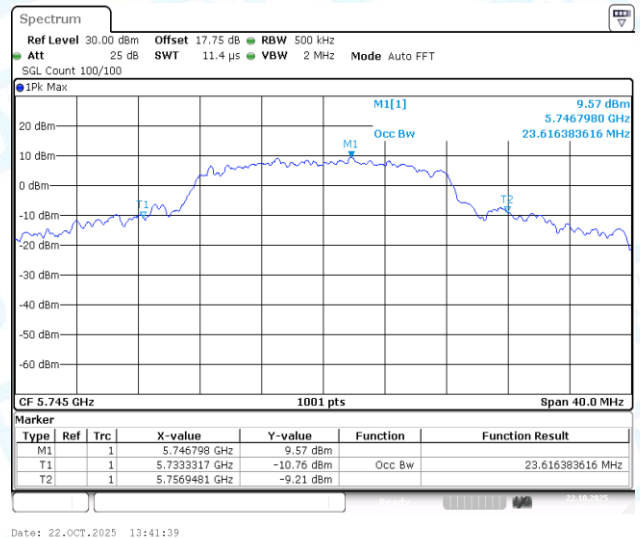
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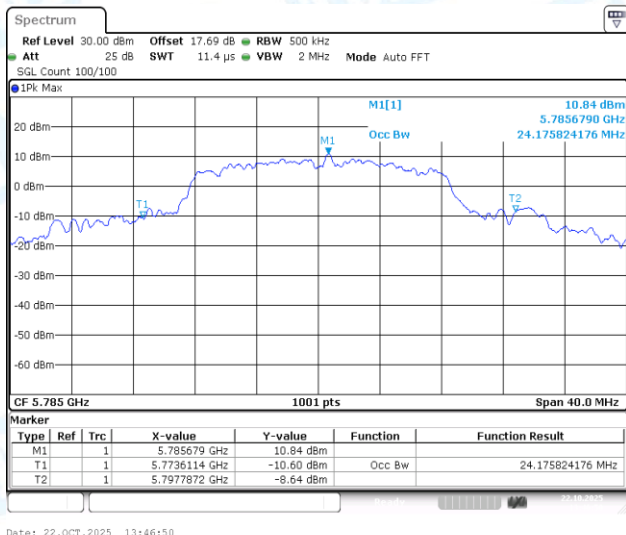
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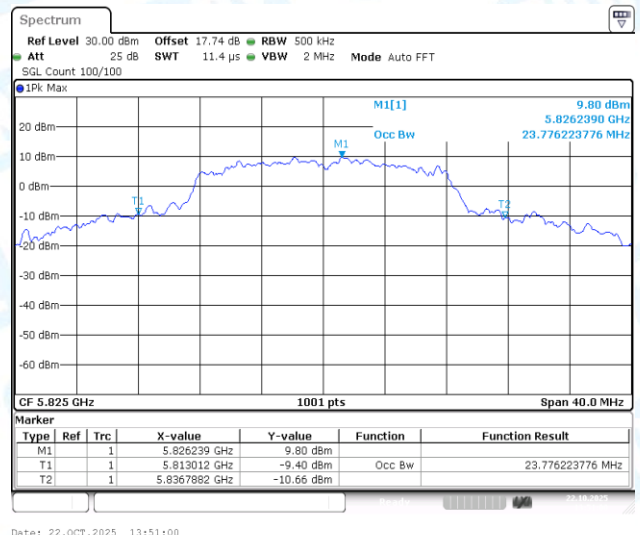
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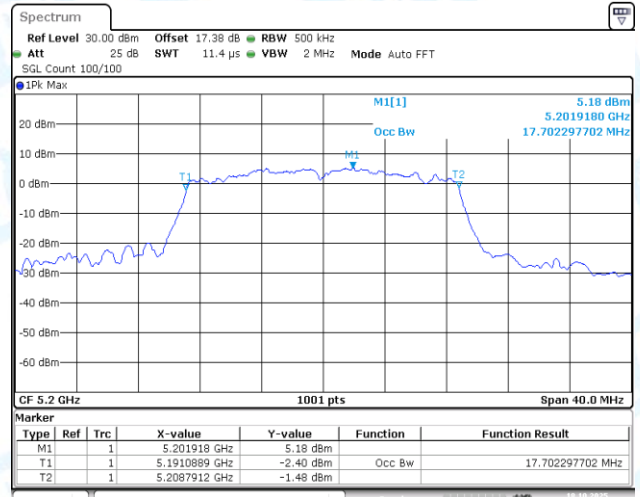
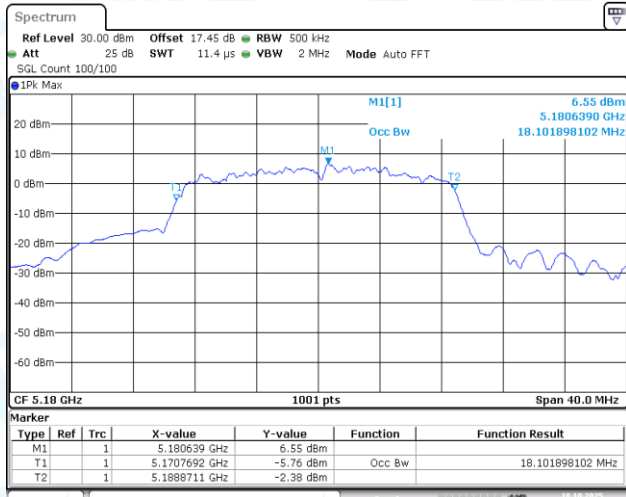
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11A-Ant1-5785

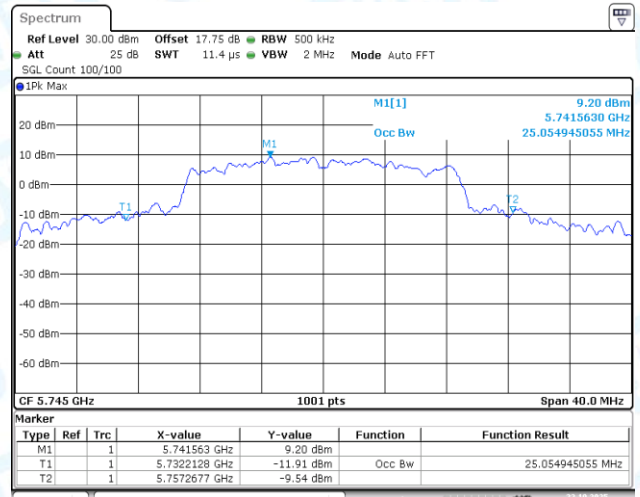
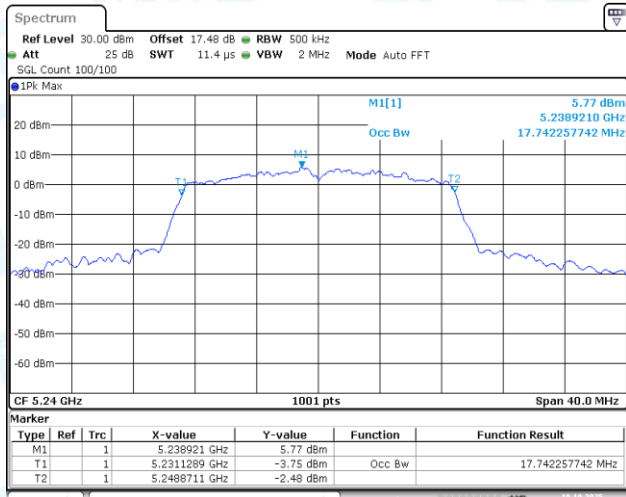


11A-Ant1-5825



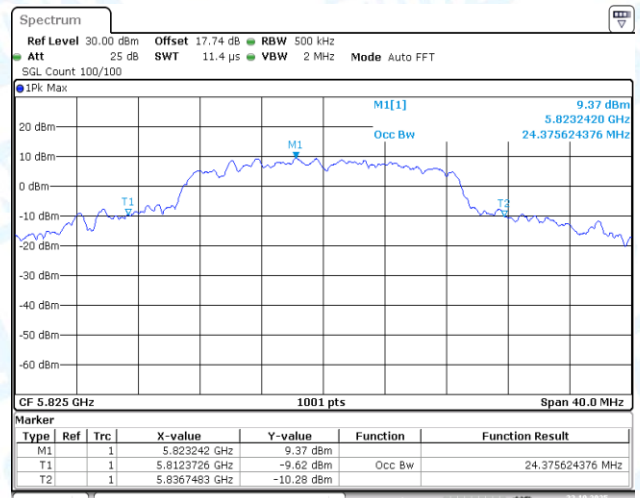
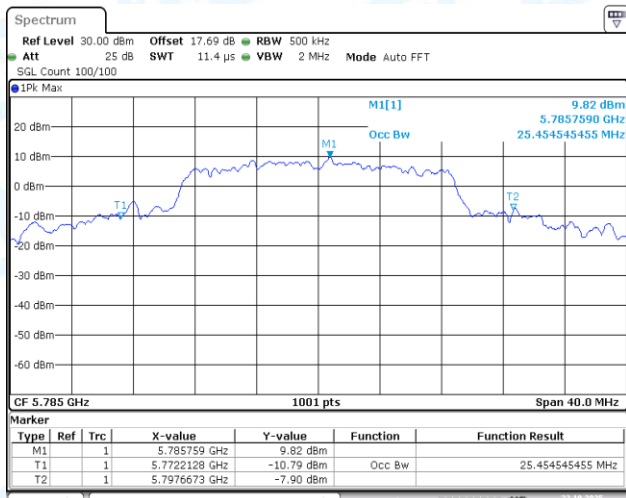
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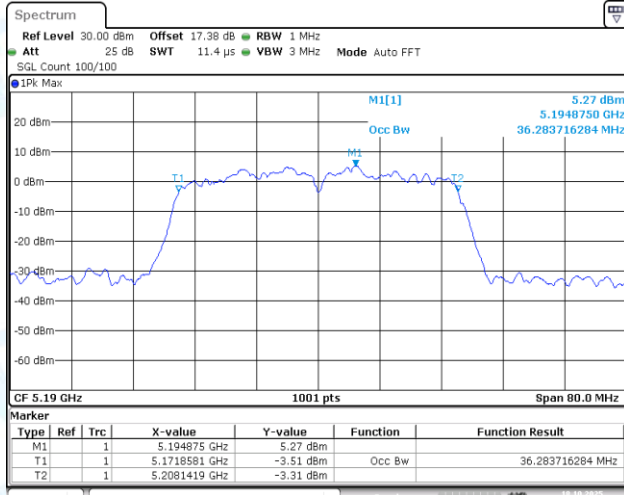
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11N20SISO-Ant1-5745

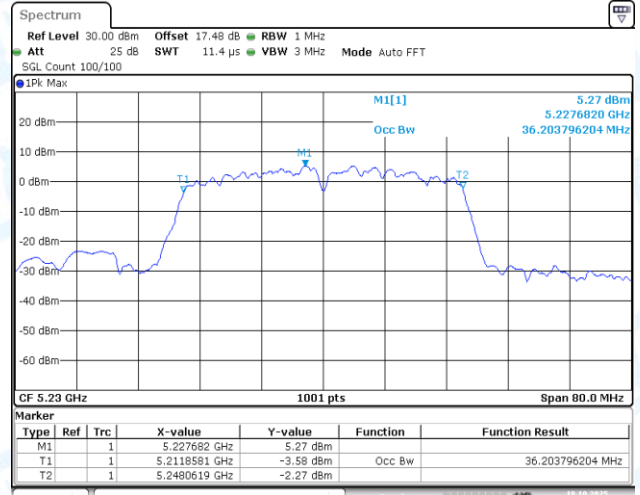


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11N20SISO-Ant1-5825



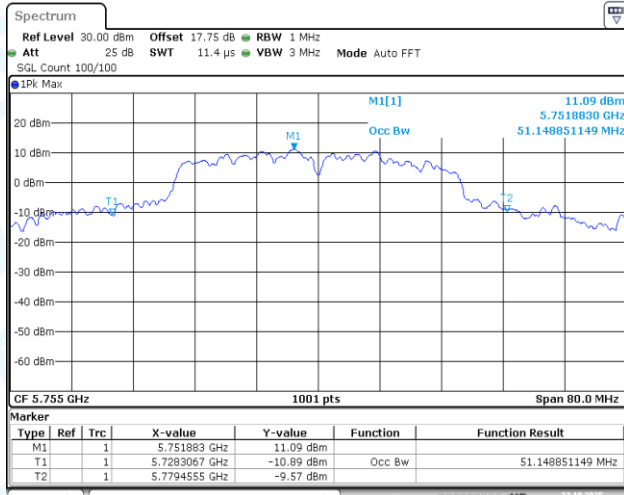
Date: 18.OCT.2025 14:50:05



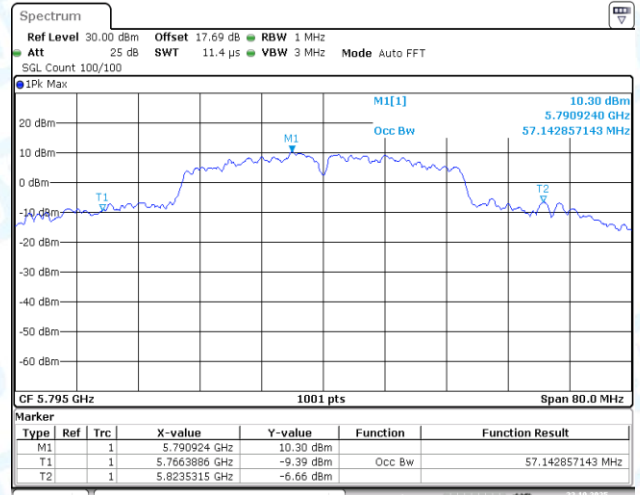
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11N40SISO-Ant1-5190

11N40SISO-Ant1-5230



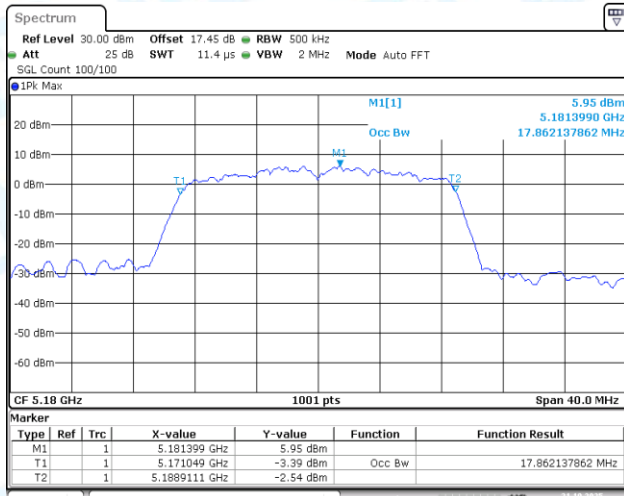
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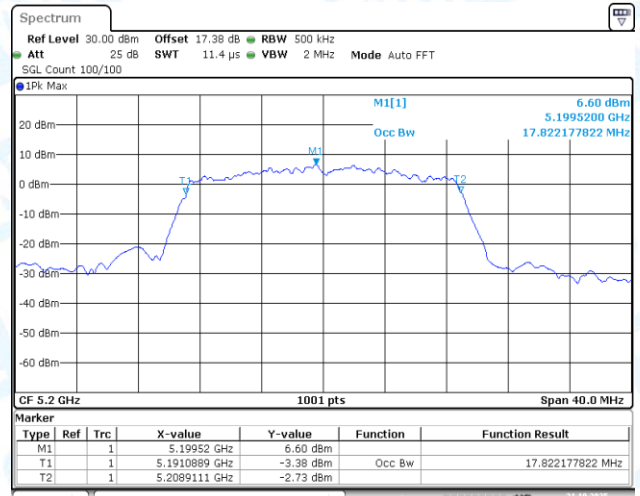
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11N40SISO-Ant1-5755

11N40SISO-Ant1-5795



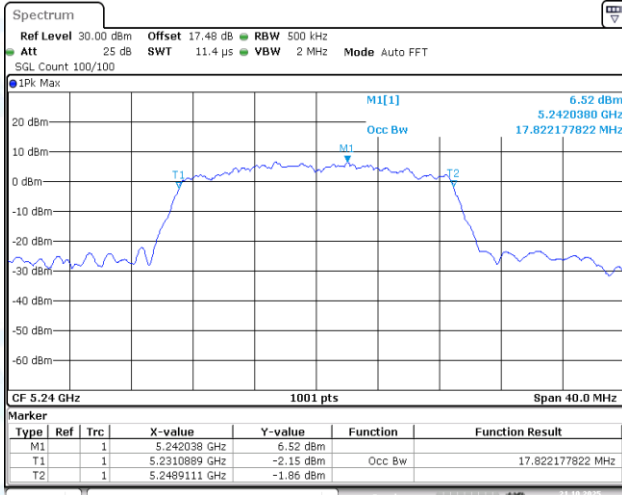
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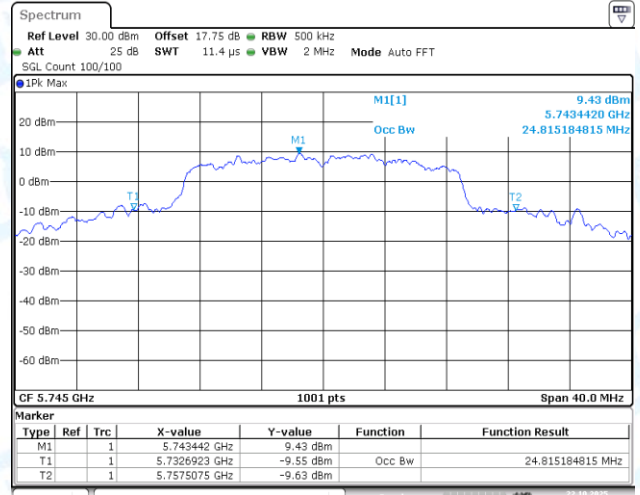
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11AC20SISO-Ant1-5200



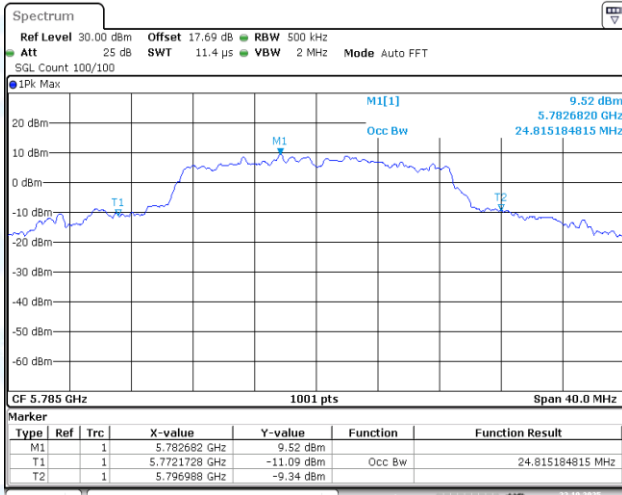
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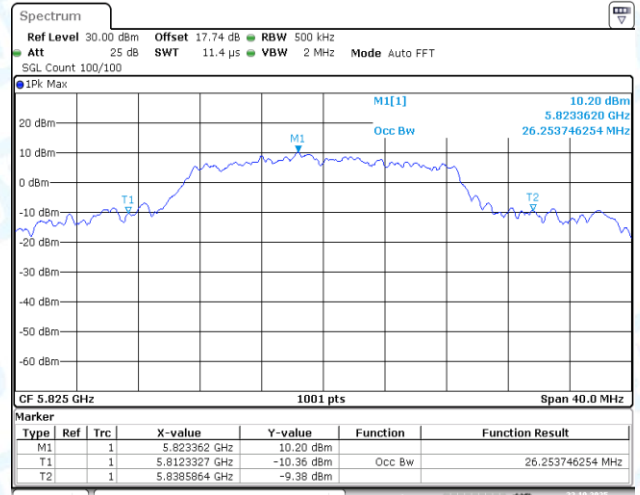
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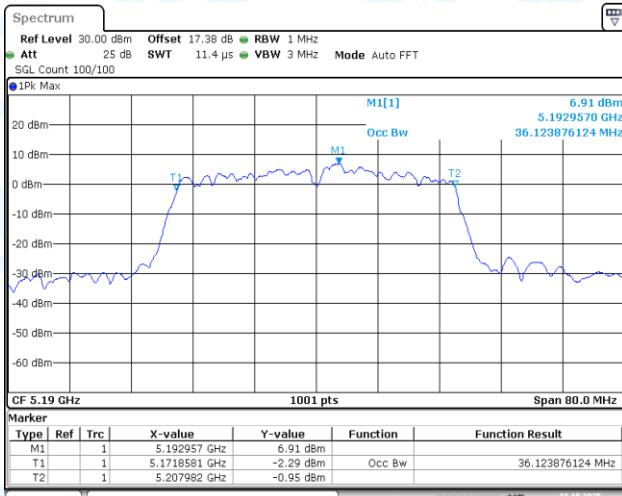
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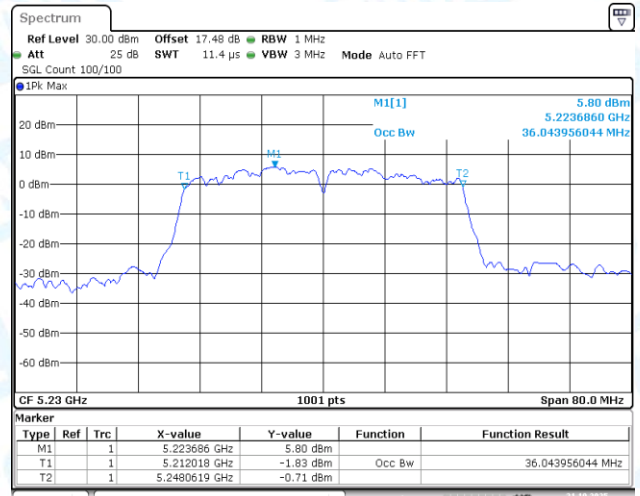
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11AC20SISO-Ant1-5825



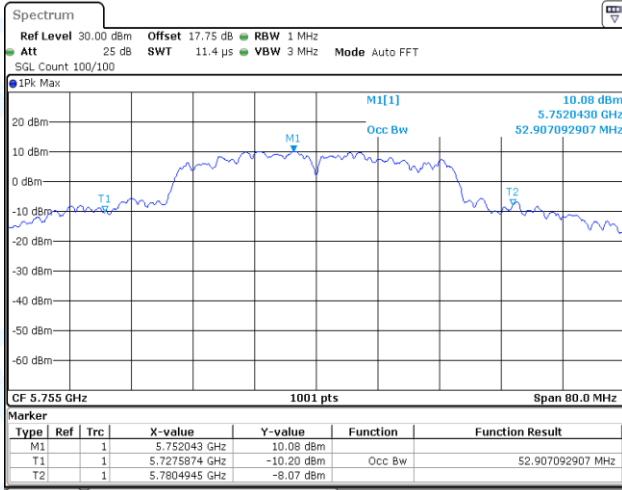
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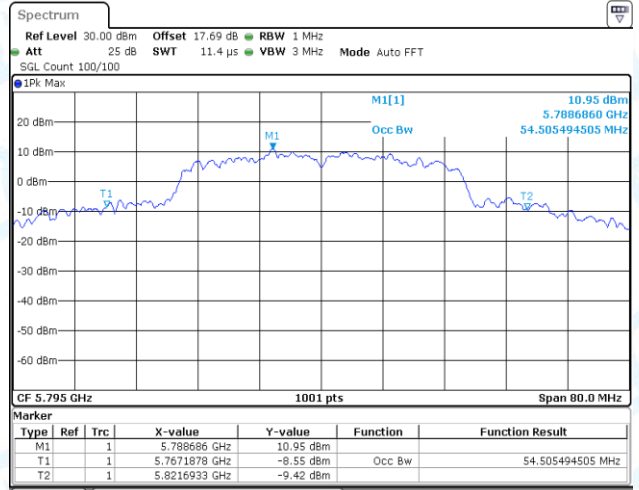
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11AC40SISO-Ant1-5230



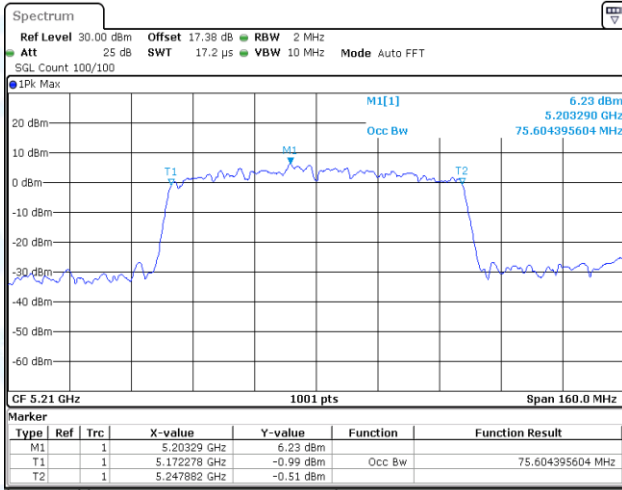
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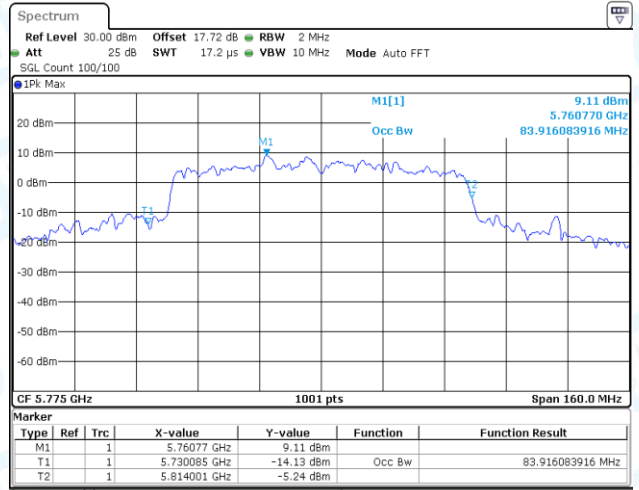
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11AC40SISO-Ant1-5755

11AC40SISO-Ant1-5795



Date: 21.OCT.2025 15:28:07



Date: 22.OCT.2025 15:27:28

11AC80SISO-Ant1-5210

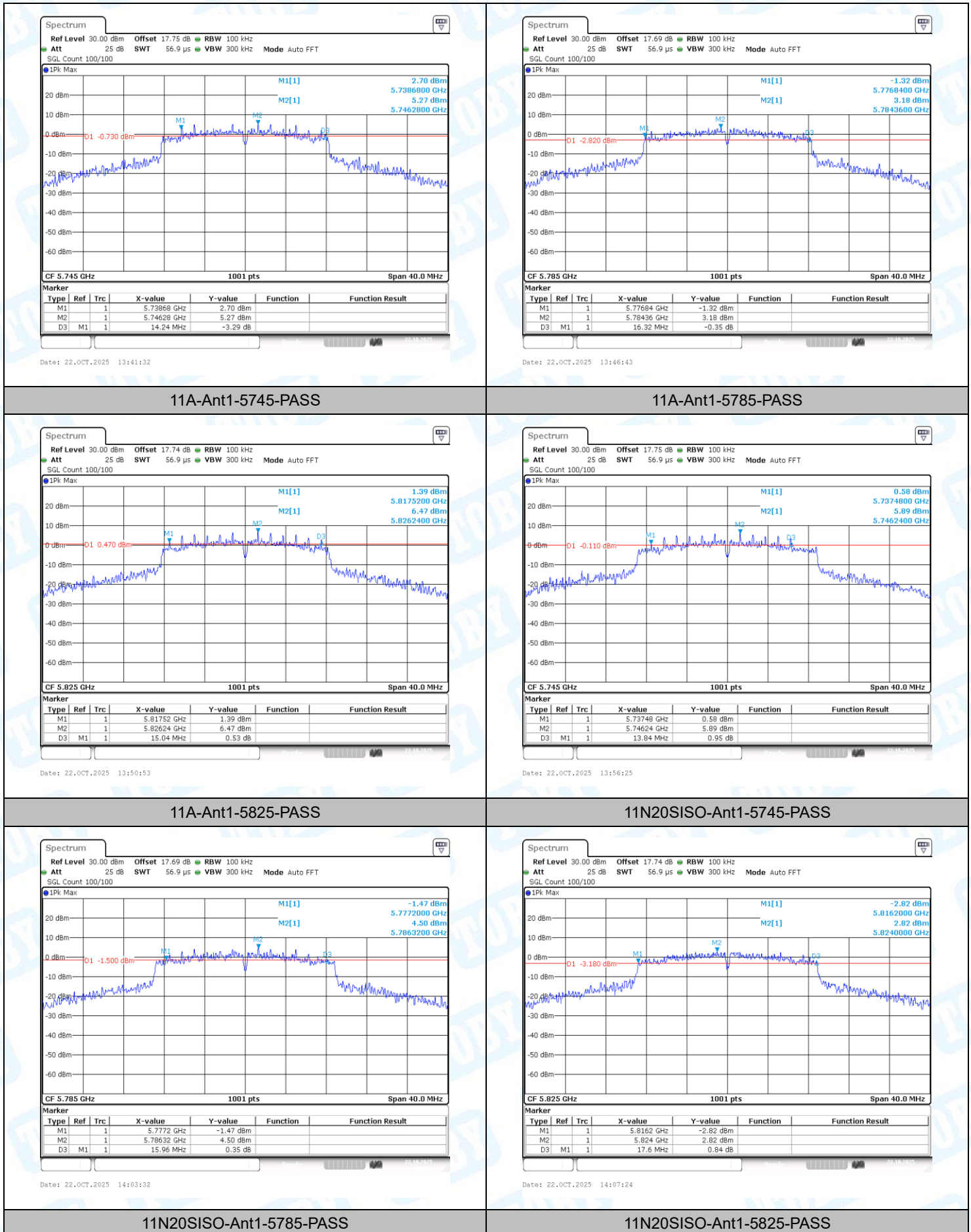
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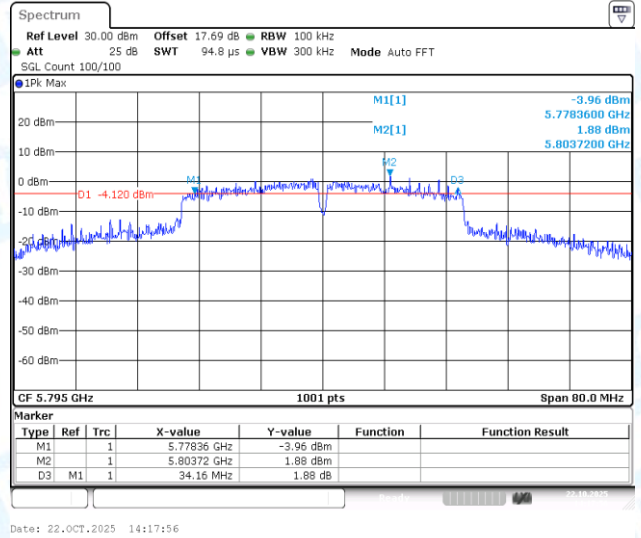
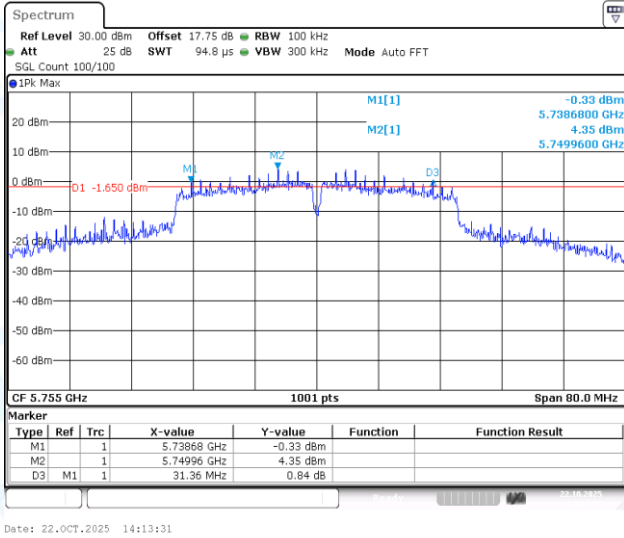
3: Min emission bandwidth

3.1 Test Result-B4

Test Mode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	14.24	5738.68	5752.92	0.5	PASS
11A	Ant1	5785	16.32	5776.84	5793.16	0.5	PASS
11A	Ant1	5825	15.04	5817.52	5832.56	0.5	PASS
11N20SISO	Ant1	5745	13.84	5737.48	5751.32	0.5	PASS
11N20SISO	Ant1	5785	15.96	5777.20	5793.16	0.5	PASS
11N20SISO	Ant1	5825	17.60	5816.20	5833.80	0.5	PASS
11N40SISO	Ant1	5755	31.36	5738.68	5770.04	0.5	PASS
11N40SISO	Ant1	5795	34.16	5778.36	5812.52	0.5	PASS
11AC20SISO	Ant1	5745	13.80	5737.52	5751.32	0.5	PASS
11AC20SISO	Ant1	5785	17.28	5776.48	5793.76	0.5	PASS
11AC20SISO	Ant1	5825	16.28	5816.48	5832.76	0.5	PASS
11AC40SISO	Ant1	5755	29.12	5740.92	5770.04	0.5	PASS
11AC40SISO	Ant1	5795	35.44	5777.08	5812.52	0.5	PASS
11AC80SISO	Ant1	5775	68.96	5743.64	5812.60	0.5	PASS

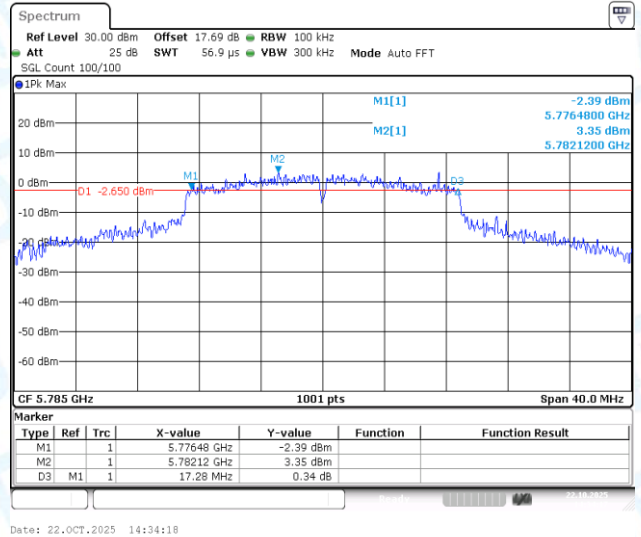
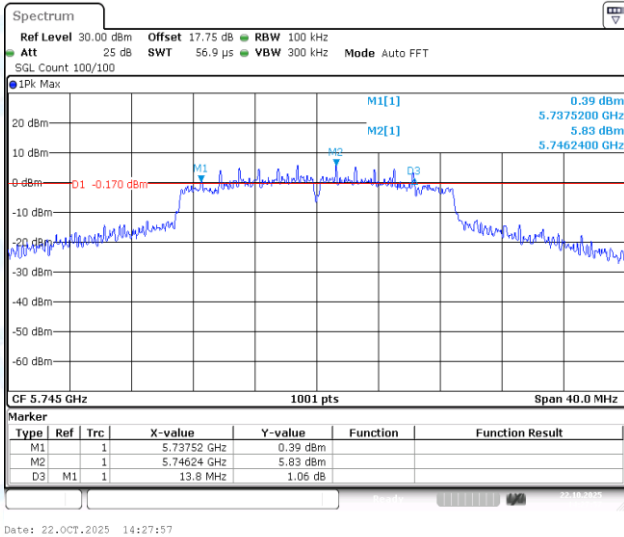
3.2 Test Graphs-B4





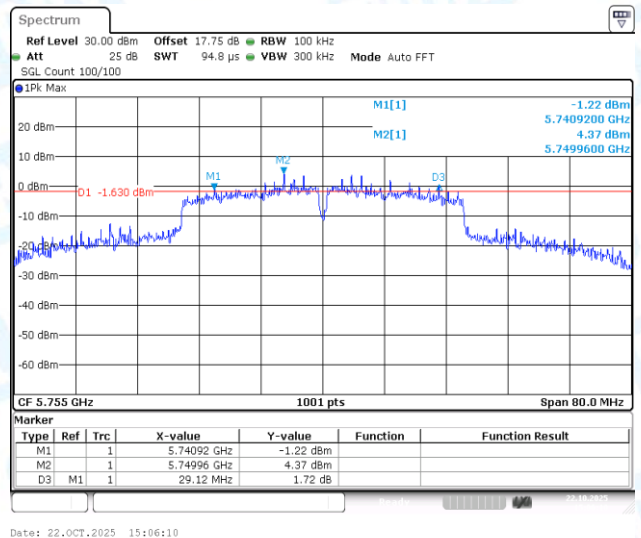
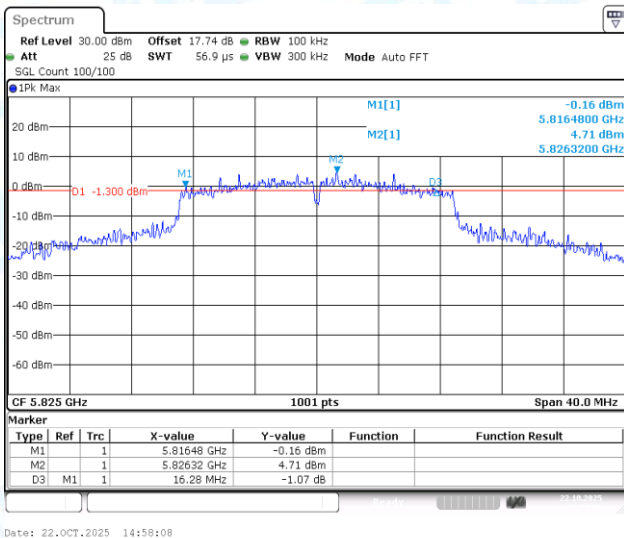
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11N40SISO-Ant1-5795-PASS



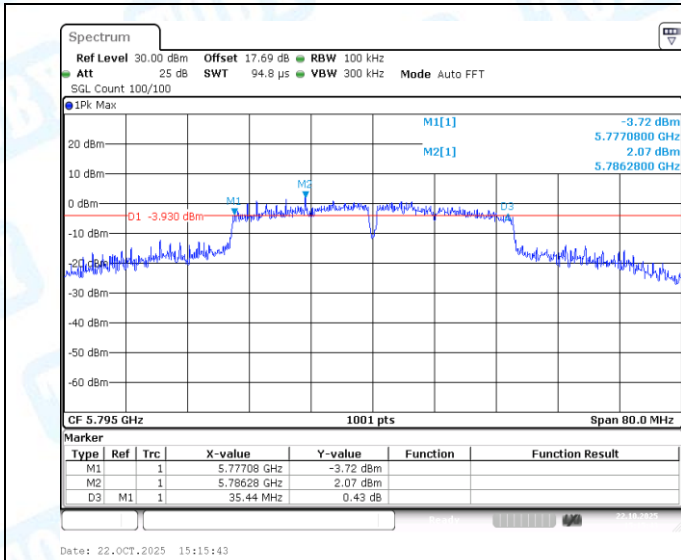
11AC20SISO-Ant1-5745-PASS

11AC20SISO-Ant1-5785-PASS

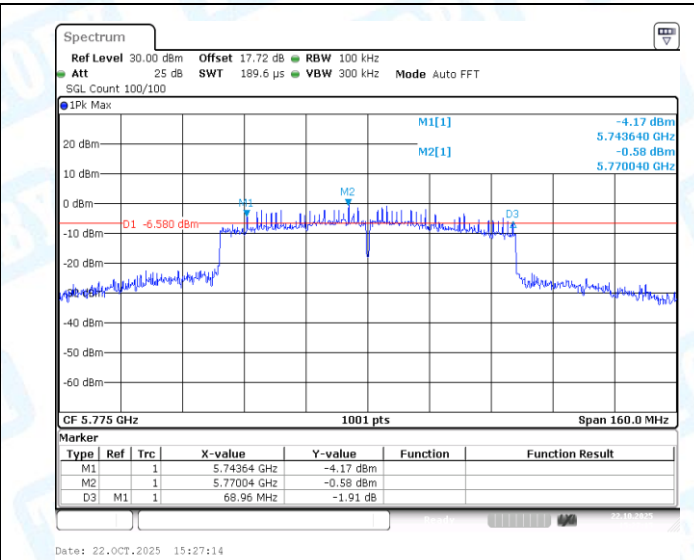


11AC20SISO-Ant1-5825-PASS

11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5775-PASS

4: Duty Cycle

4.1 Test Result

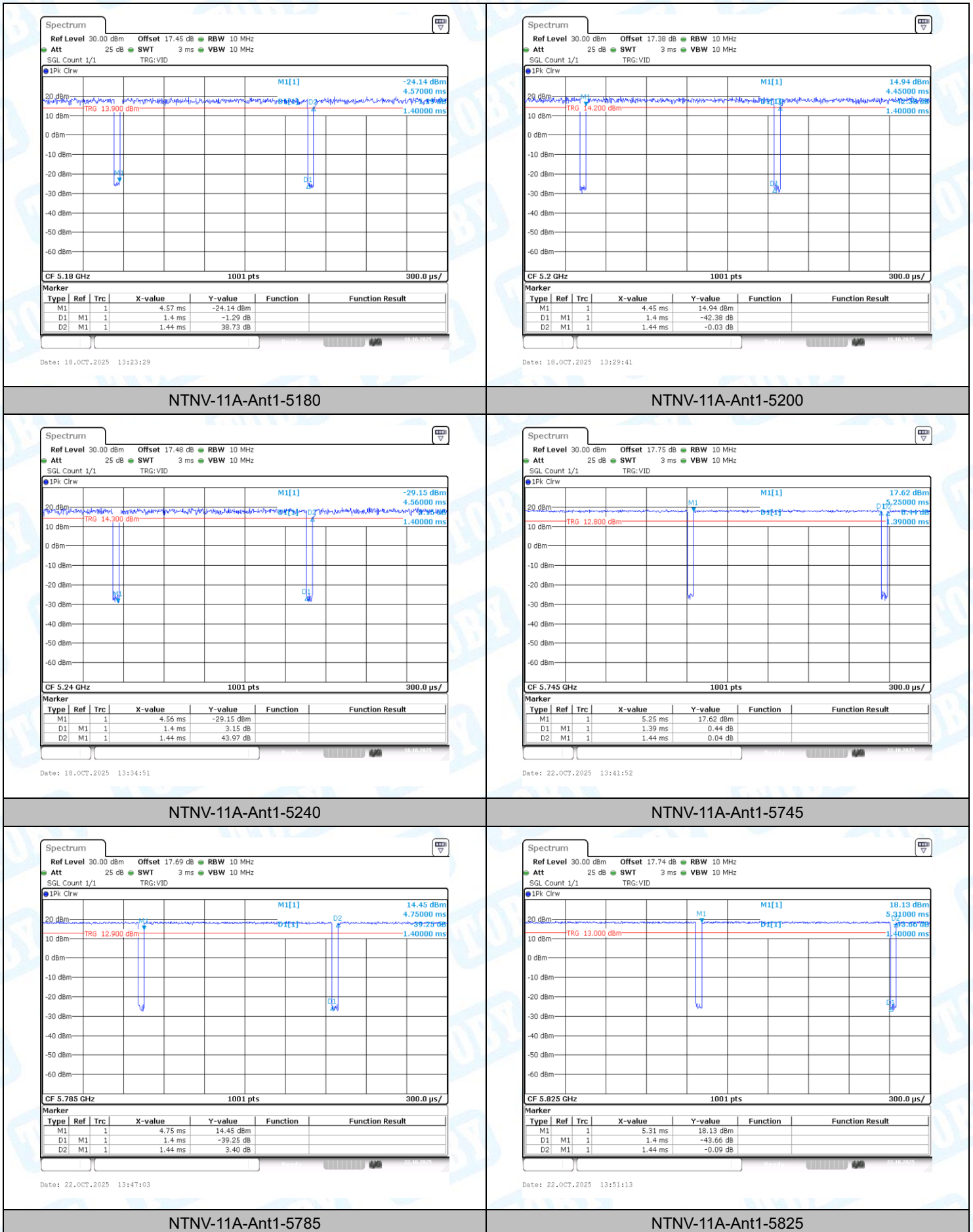
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	1/T [kHz]
11A	Ant1	5180	1.40	1.44	97.22	0.12	0.71
11A	Ant1	5200	1.40	1.44	97.22	0.12	0.71
11A	Ant1	5240	1.40	1.44	97.22	0.12	0.71
11A	Ant1	5745	1.39	1.44	96.53	0.15	0.72
11A	Ant1	5785	1.40	1.44	97.22	0.12	0.71
11A	Ant1	5825	1.40	1.44	97.22	0.12	0.71
11N20SISO	Ant1	5180	1.29	1.34	96.27	0.17	0.78
11N20SISO	Ant1	5200	1.30	1.35	96.30	0.16	0.77
11N20SISO	Ant1	5240	1.30	1.35	96.30	0.16	0.77
11N20SISO	Ant1	5745	1.30	1.35	96.30	0.16	0.77
11N20SISO	Ant1	5785	1.30	1.35	96.30	0.16	0.77
11N20SISO	Ant1	5825	1.30	1.35	96.30	0.16	0.77
11N40SISO	Ant1	5190	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant1	5230	0.65	0.70	92.86	0.32	1.54
11N40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant1	5795	0.65	0.69	94.20	0.26	1.54
11AC20SISO	Ant1	5180	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5200	1.32	1.36	97.06	0.13	0.76
11AC20SISO	Ant1	5240	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5745	1.31	1.36	96.32	0.16	0.76
11AC20SISO	Ant1	5785	1.31	1.35	97.04	0.13	0.76
11AC20SISO	Ant1	5825	1.32	1.36	97.06	0.13	0.76
11AC40SISO	Ant1	5190	0.65	0.70	92.86	0.32	1.54
11AC40SISO	Ant1	5230	0.65	0.70	92.86	0.32	1.54
11AC40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
11AC40SISO	Ant1	5795	0.65	0.69	94.20	0.26	1.54
11AC80SISO	Ant1	5210	0.32	0.37	86.49	0.63	3.13
11AC80SISO	Ant1	5775	0.32	0.37	86.49	0.63	3.13

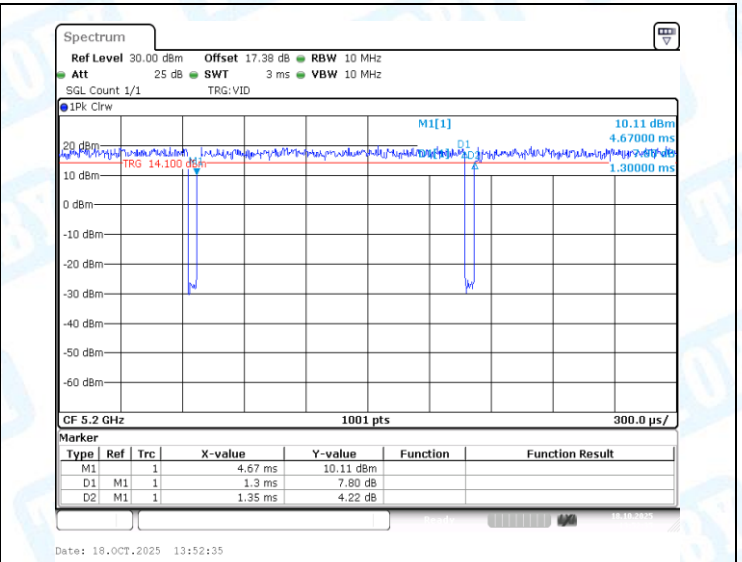
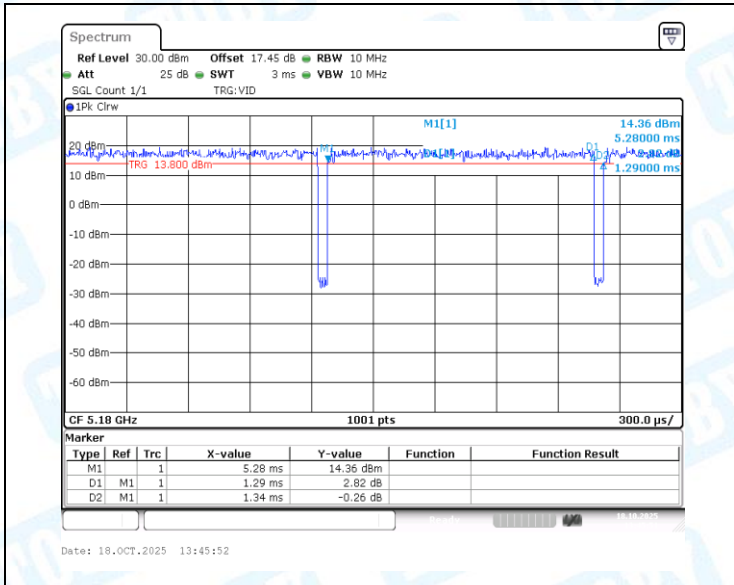
Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

2, DC Factor=10*Log₁₀(1/Duty Cycle)

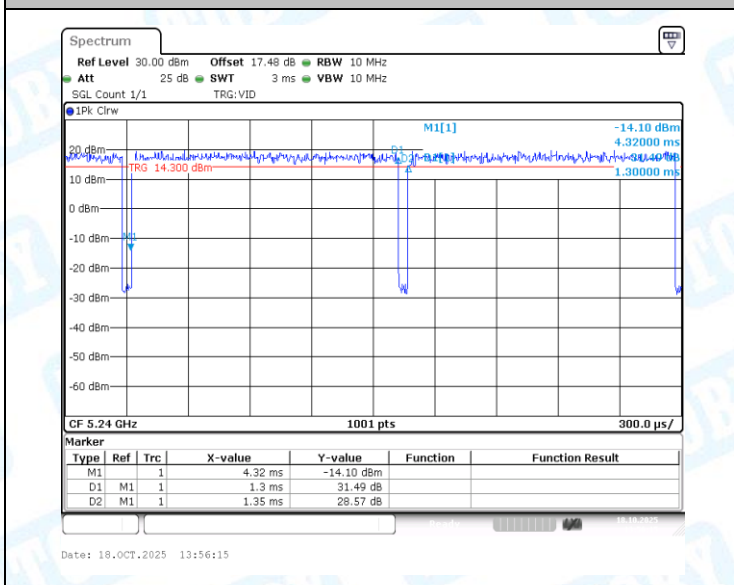
3, 1/T=1/ Transmission Duration

4.2 Test Graphs

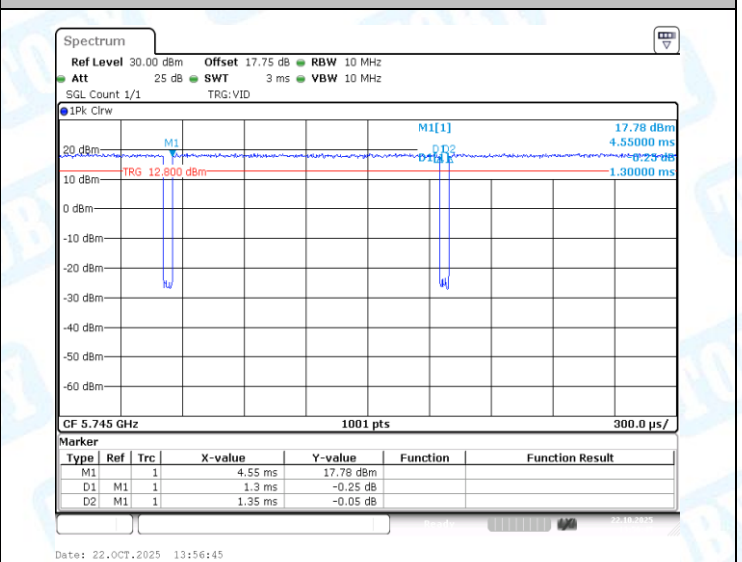




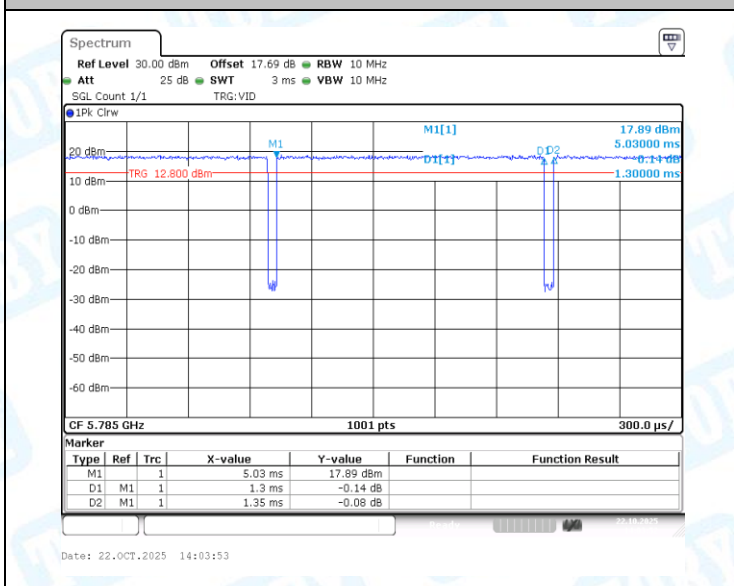
NTNV-11N20SISO-Ant1-5180



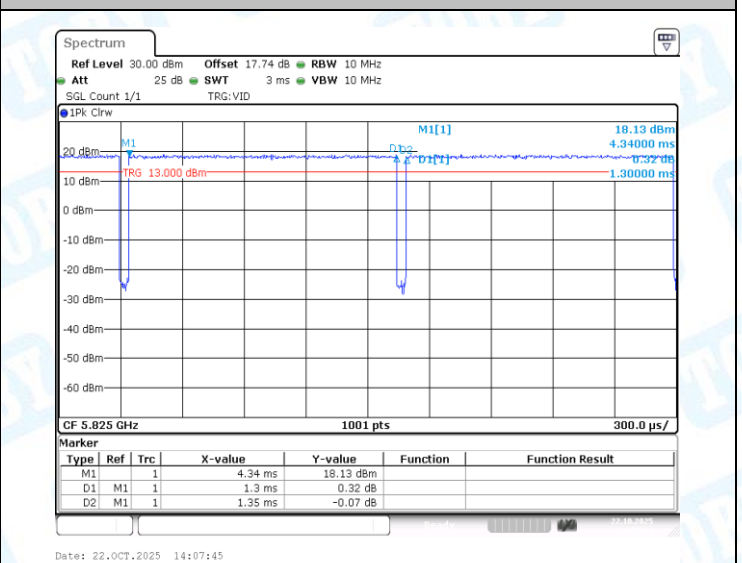
NTNV-11N20SISO-Ant1-5200



NTNV-11N20SISO-Ant1-5240

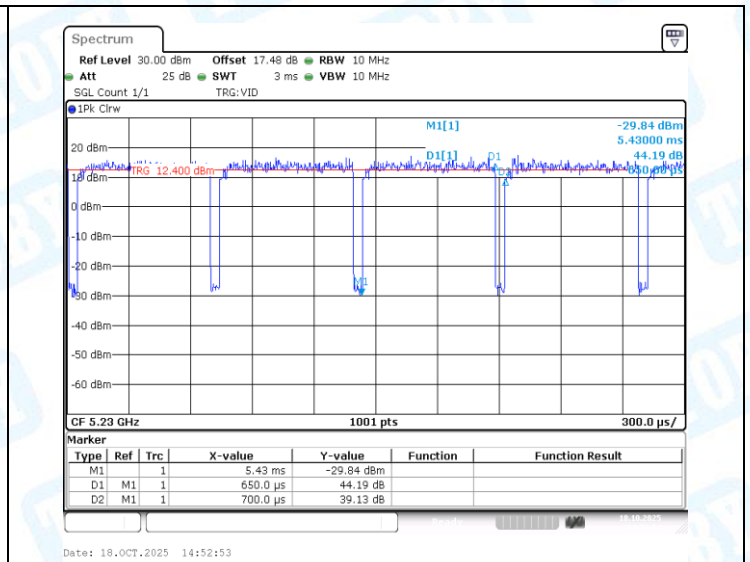
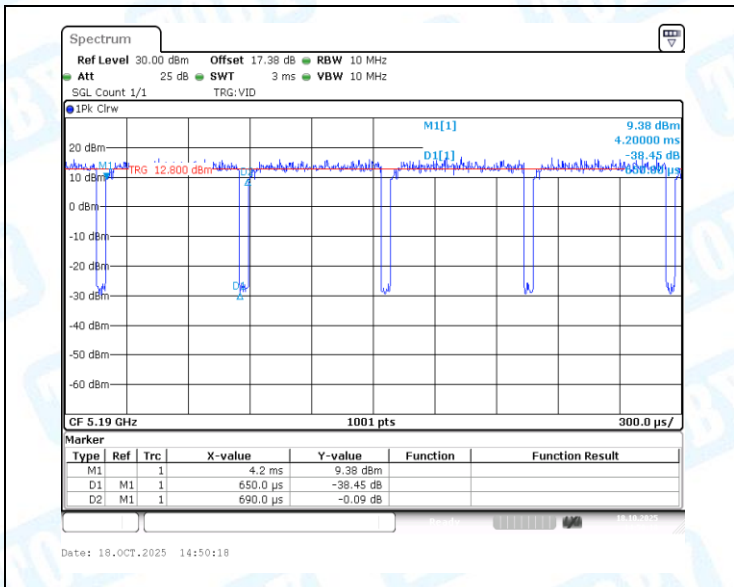


NTNV-11N20SISO-Ant1-5745

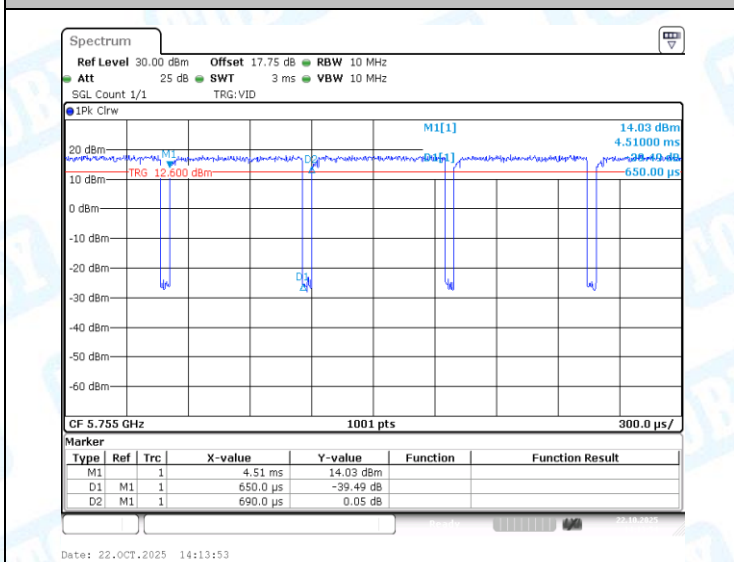


NTNV-11N20SISO-Ant1-5785

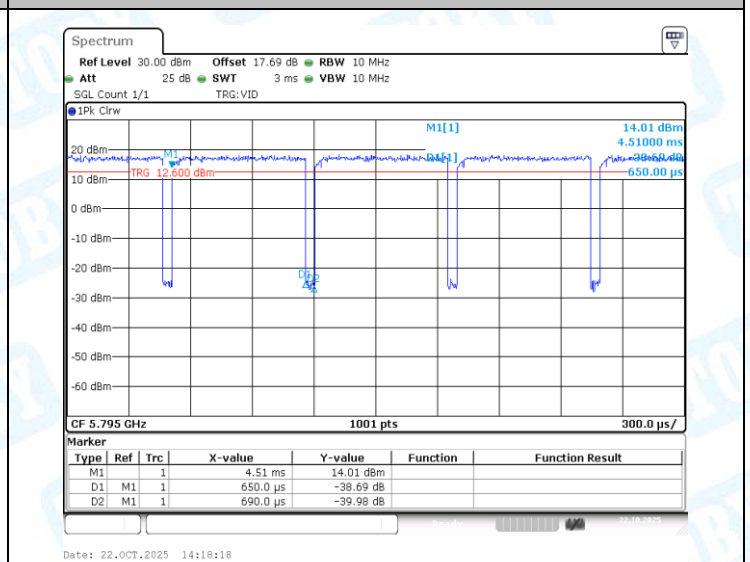
NTNV-11N20SISO-Ant1-5825



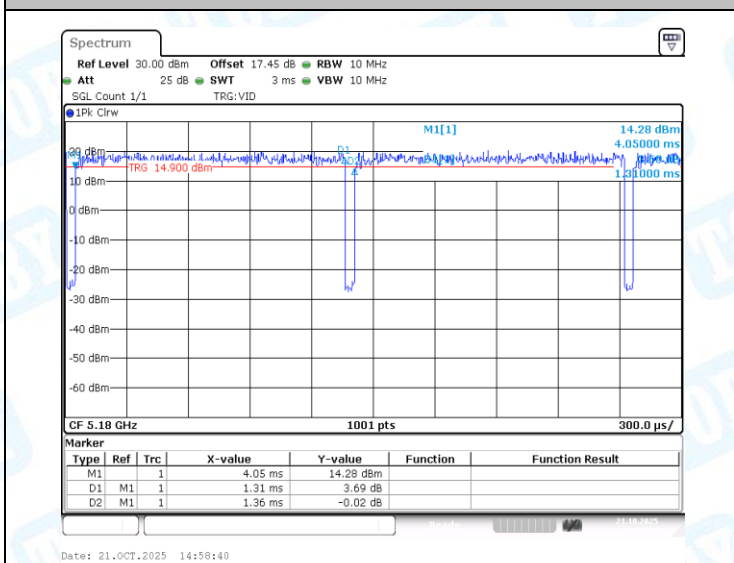
NTNV-11N40SISO-Ant1-5190



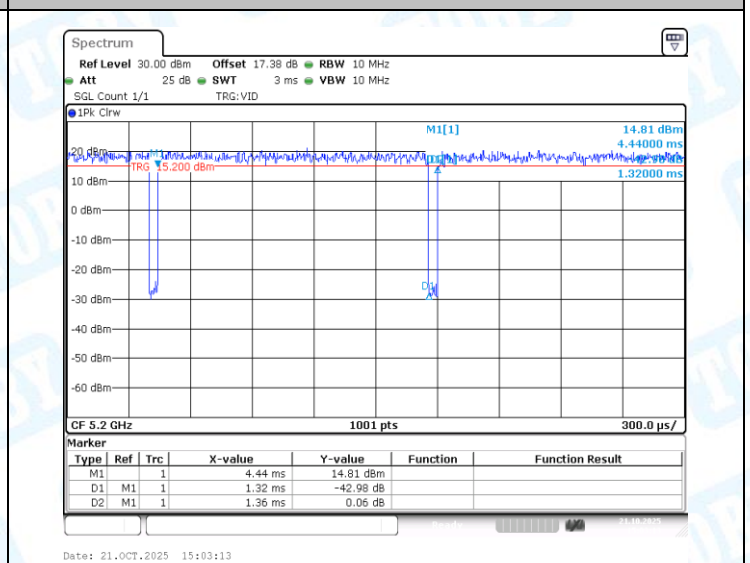
NTNV-11N40SISO-Ant1-5230



NTNV-11N40SISO-Ant1-5755

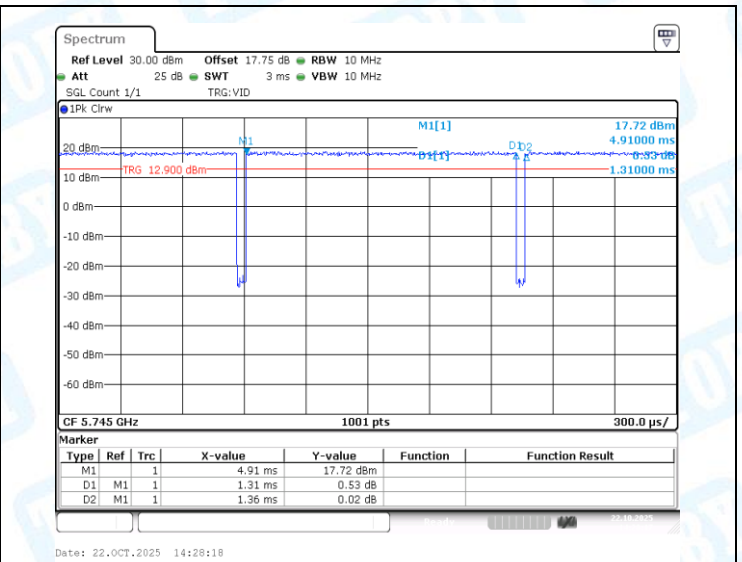
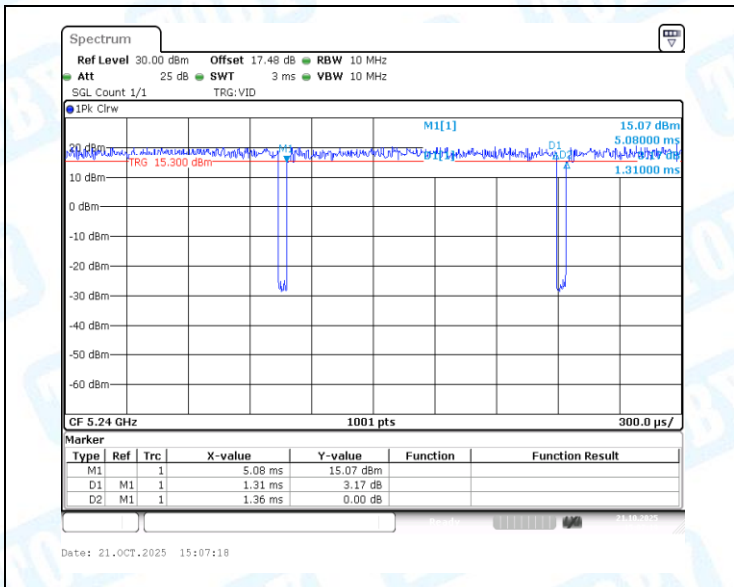


NTNV-11N40SISO-Ant1-5795

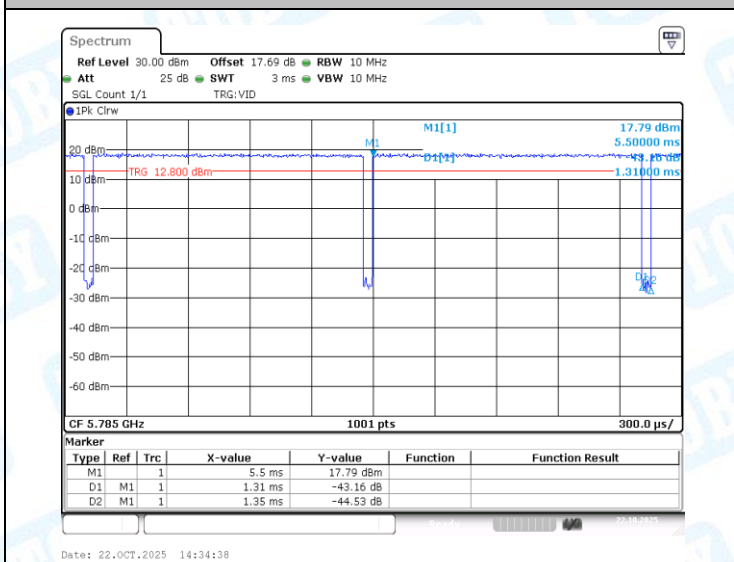


NTNV-11AC20SISO-Ant1-5180

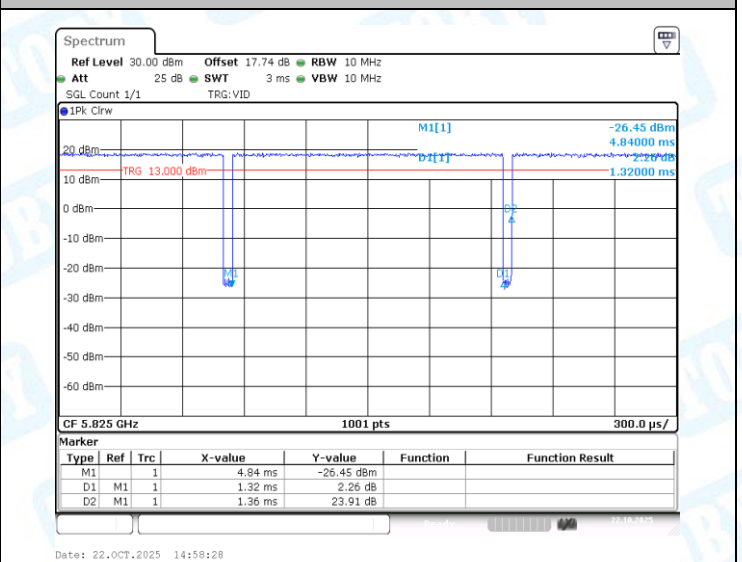
NTNV-11AC20SISO-Ant1-5200



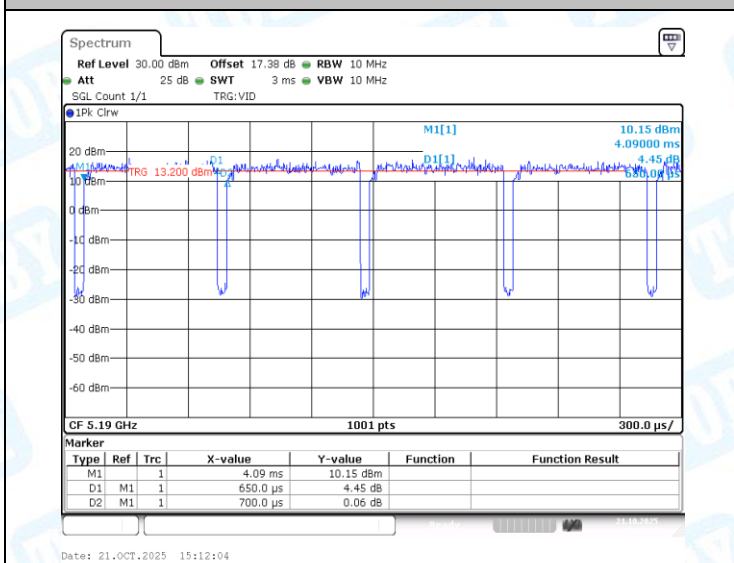
NTNV-11AC20SISO-Ant1-5240



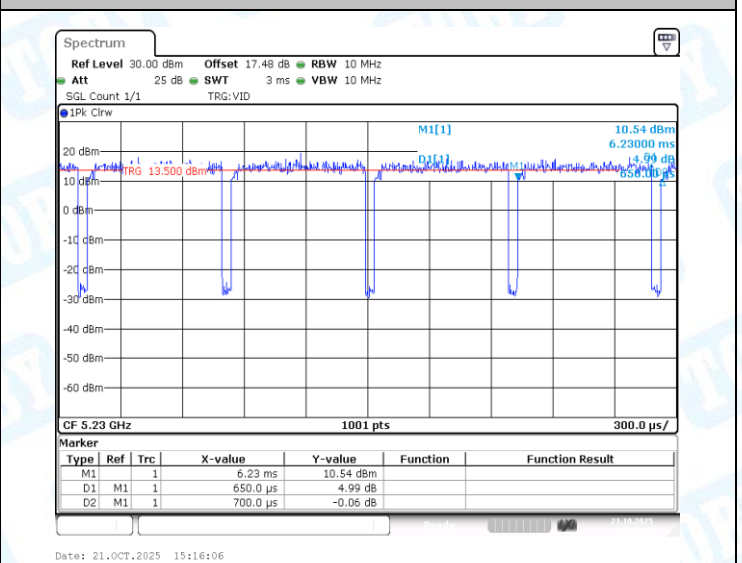
NTNV-11AC20SISO-Ant1-5745



NTNV-11AC20SISO-Ant1-5785

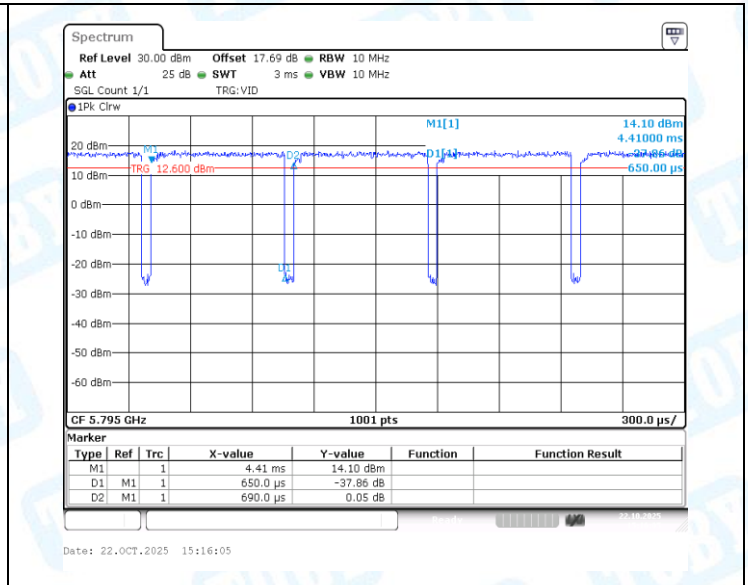
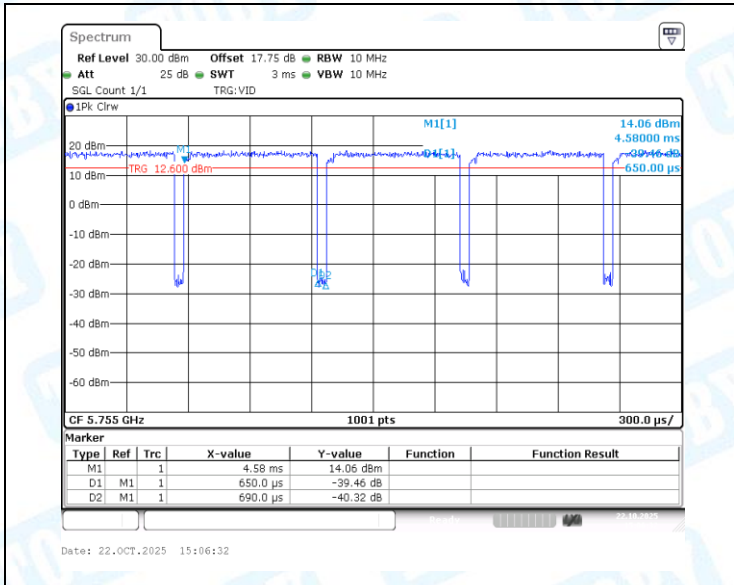


NTNV-11AC20SISO-Ant1-5825



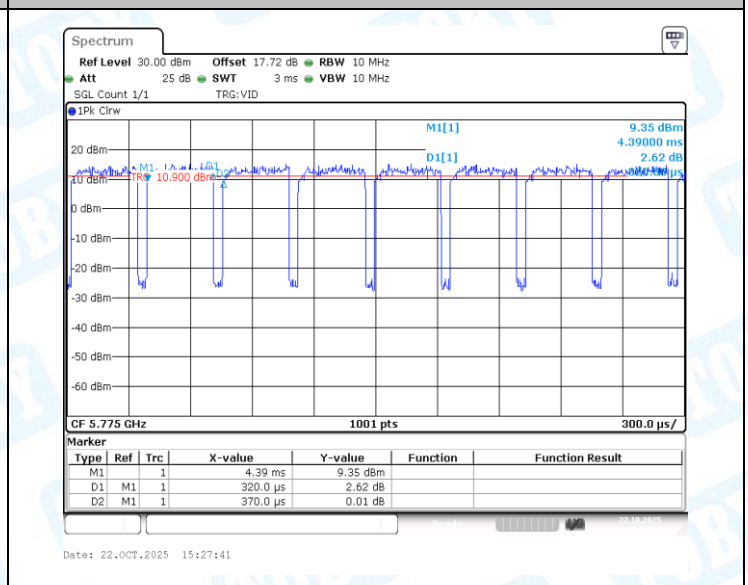
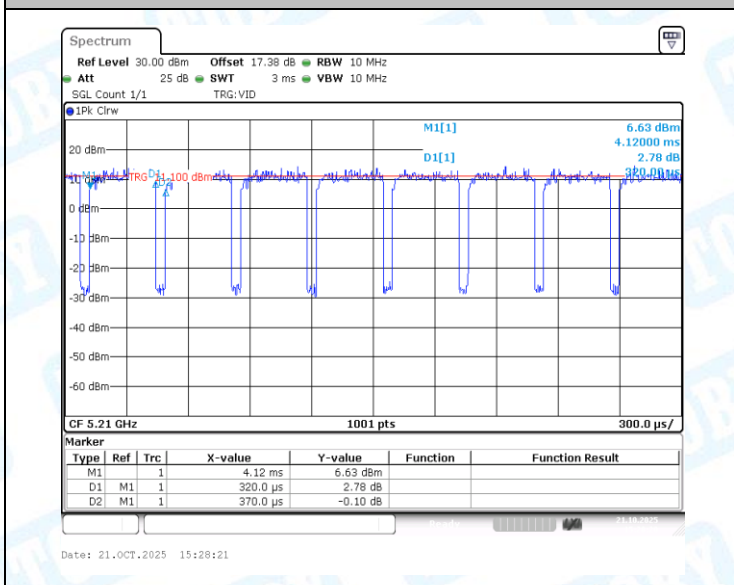
NTNV-11AC40SISO-Ant1-5190

NTNV-11AC40SISO-Ant1-5230



NTNV-11AC40SISO-Ant1-5755

NTNV-11AC40SISO-Ant1-5795



NTNV-11AC80SISO-Ant1-5210

NTNV-11AC80SISO-Ant1-5775

5: Maximum conducted output power

5.1 Test Result

Test Mode	Antenna	Frequency [MHz]	Raw Power [dBm]	DC Factor	Result [dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	13.47	0.12	13.59	≤23.98	PASS
11A	Ant1	5200	13.39	0.12	13.51	≤23.98	PASS
11A	Ant1	5240	13.48	0.12	13.60	≤23.98	PASS
11A	Ant1	5745	15.19	0.15	15.34	≤30.00	PASS
11A	Ant1	5785	15.56	0.12	15.68	≤30.00	PASS
11A	Ant1	5825	15.79	0.12	15.91	≤30.00	PASS
11N20SISO	Ant1	5180	12.89	0.17	13.06	≤23.98	PASS
11N20SISO	Ant1	5200	12.84	0.16	13.00	≤23.98	PASS
11N20SISO	Ant1	5240	12.92	0.16	13.08	≤23.98	PASS
11N20SISO	Ant1	5745	15.34	0.16	15.50	≤30.00	PASS
11N20SISO	Ant1	5785	15.58	0.16	15.74	≤30.00	PASS
11N20SISO	Ant1	5825	15.70	0.16	15.86	≤30.00	PASS
11N40SISO	Ant1	5190	11.12	0.26	11.38	≤23.98	PASS
11N40SISO	Ant1	5230	11.14	0.32	11.46	≤23.98	PASS
11N40SISO	Ant1	5755	15.84	0.26	16.10	≤30.00	PASS
11N40SISO	Ant1	5795	16.18	0.26	16.44	≤30.00	PASS
11AC20SISO	Ant1	5180	12.69	0.16	12.85	≤23.98	PASS
11AC20SISO	Ant1	5200	13.20	0.13	13.33	≤23.98	PASS
11AC20SISO	Ant1	5240	13.31	0.16	13.47	≤23.98	PASS
11AC20SISO	Ant1	5745	15.24	0.16	15.40	≤30.00	PASS
11AC20SISO	Ant1	5785	15.58	0.13	15.71	≤30.00	PASS
11AC20SISO	Ant1	5825	15.62	0.13	15.75	≤30.00	PASS
11AC40SISO	Ant1	5190	11.71	0.32	12.03	≤23.98	PASS
11AC40SISO	Ant1	5230	12.01	0.32	12.33	≤23.98	PASS
11AC40SISO	Ant1	5755	15.82	0.26	16.08	≤30.00	PASS
11AC40SISO	Ant1	5795	16.13	0.26	16.39	≤30.00	PASS
11AC80SISO	Ant1	5210	11.24	0.63	11.87	≤23.98	PASS
11AC80SISO	Ant1	5775	13.55	0.63	14.18	≤30.00	PASS

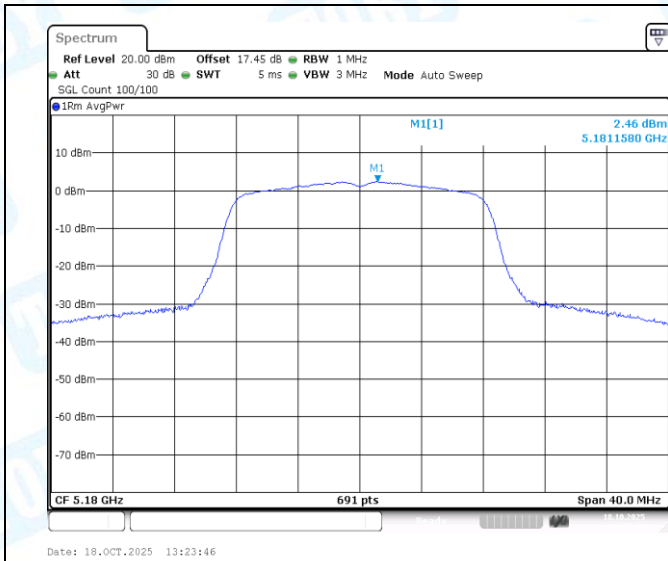
6: Maximum power spectral density

6.1 Test Result

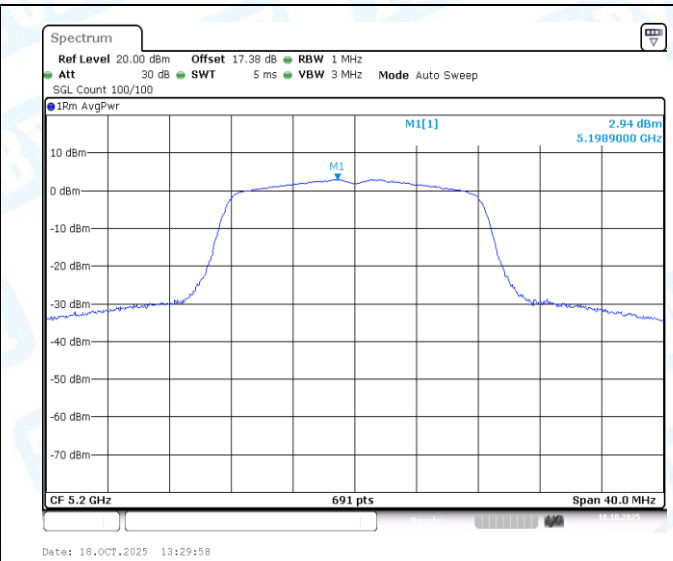
Test Mode	Ant.	Frequency [MHz]	RawData [dBm/3kHz]	DC Factor	Result [dBm/MHz] Result [dBm/500kHz]	Limit[dBm/MHz] Limit[dBm/500kHz]	Verdict
11A	Ant1	5180	2.46	0.12	2.58	≤11.00	PASS
11A	Ant1	5200	2.94	0.12	3.06	≤11.00	PASS
11A	Ant1	5240	2.72	0.12	2.84	≤11.00	PASS
11A	Ant1	5745	2.38	0.15	2.53	≤30.00	PASS
11A	Ant1	5785	2.76	0.12	2.88	≤30.00	PASS
11A	Ant1	5825	2.92	0.12	3.04	≤30.00	PASS
11N20SISO	Ant1	5180	2.19	0.17	2.36	≤11.00	PASS
11N20SISO	Ant1	5200	2.26	0.16	2.42	≤11.00	PASS
11N20SISO	Ant1	5240	1.98	0.16	2.14	≤11.00	PASS
11N20SISO	Ant1	5745	2.26	0.16	2.42	≤30.00	PASS
11N20SISO	Ant1	5785	2.44	0.16	2.60	≤30.00	PASS
11N20SISO	Ant1	5825	2.7	0.16	2.86	≤30.00	PASS
11N40SISO	Ant1	5190	-2.42	0.26	-2.16	≤11.00	PASS
11N40SISO	Ant1	5230	-2.54	0.32	-2.22	≤11.00	PASS
11N40SISO	Ant1	5755	-0.25	0.26	0.01	≤30.00	PASS
11N40SISO	Ant1	5795	-0.38	0.26	-0.12	≤30.00	PASS
11AC20SISO	Ant1	5180	2.38	0.16	2.54	≤11.00	PASS
11AC20SISO	Ant1	5200	2.56	0.13	2.69	≤11.00	PASS
11AC20SISO	Ant1	5240	2.92	0.16	3.08	≤11.00	PASS
11AC20SISO	Ant1	5745	2.41	0.16	2.57	≤30.00	PASS
11AC20SISO	Ant1	5785	2.32	0.13	2.45	≤30.00	PASS
11AC20SISO	Ant1	5825	2.54	0.13	2.67	≤30.00	PASS
11AC40SISO	Ant1	5190	-1.52	0.32	-1.20	≤11.00	PASS
11AC40SISO	Ant1	5230	-1.32	0.32	-1.00	≤11.00	PASS
11AC40SISO	Ant1	5755	-0.12	0.26	0.14	≤30.00	PASS
11AC40SISO	Ant1	5795	-0.26	0.26	0.00	≤30.00	PASS
11AC80SISO	Ant1	5210	-5.09	0.63	-4.46	≤11.00	PASS
11AC80SISO	Ant1	5775	-5.63	0.63	-5.00	≤30.00	PASS

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

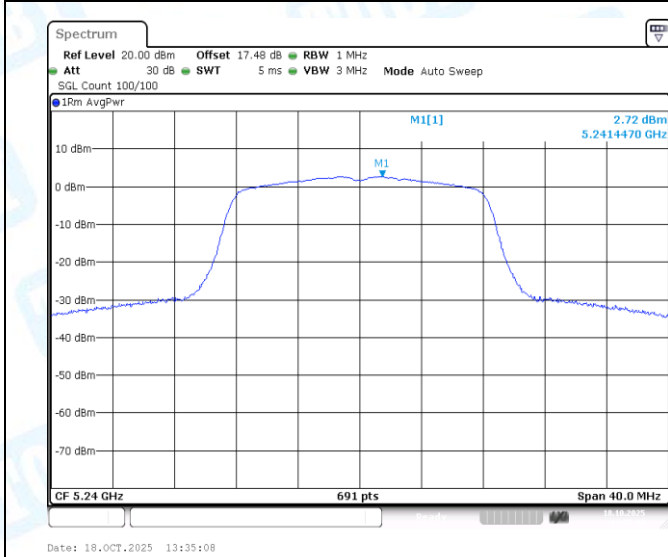
6.2 Test Graphs



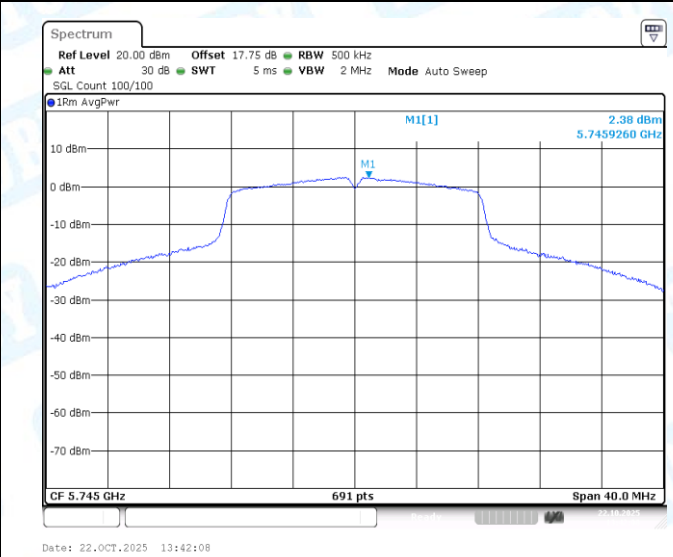
11A-Ant1-5180-PASS



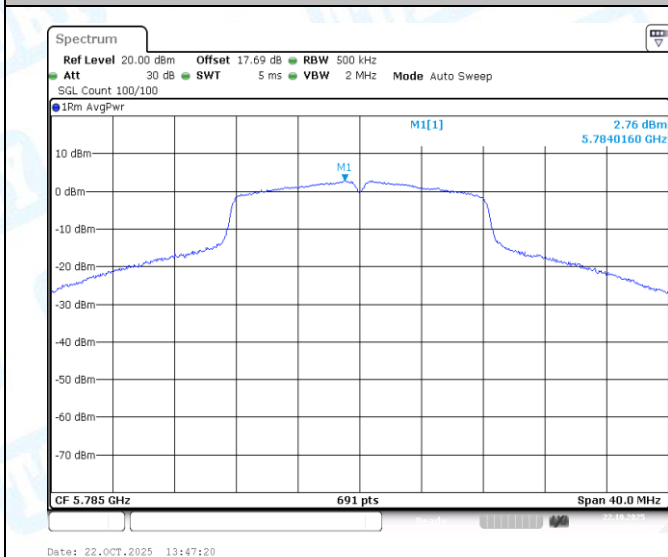
11A-Ant1-5200-PASS



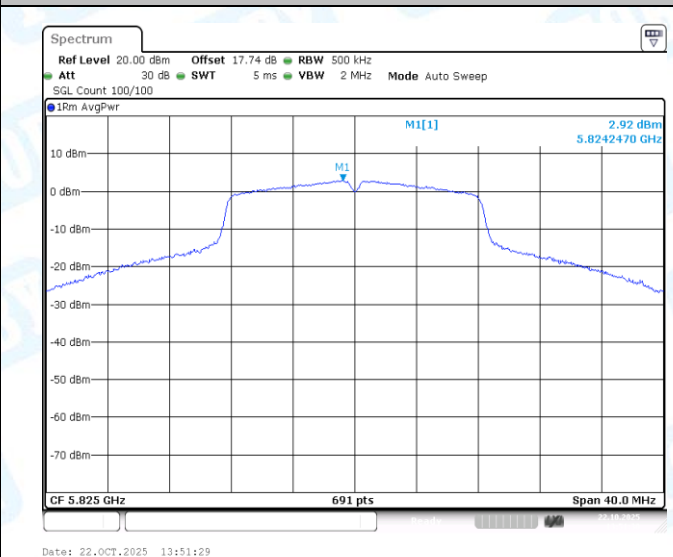
11A-Ant1-5240-PASS



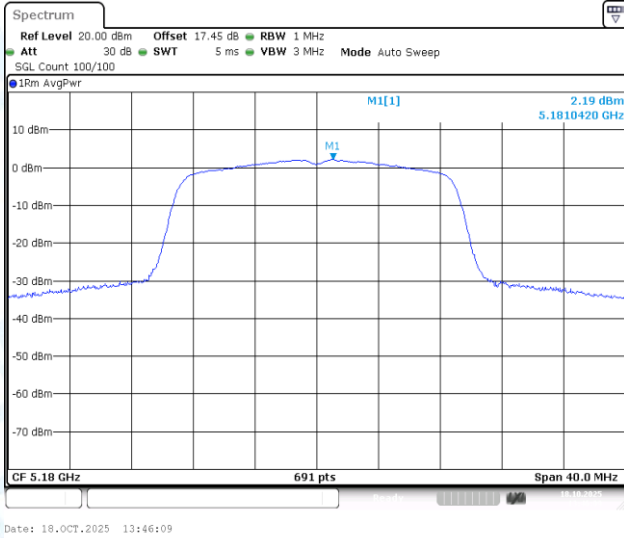
11A-Ant1-5745-PASS



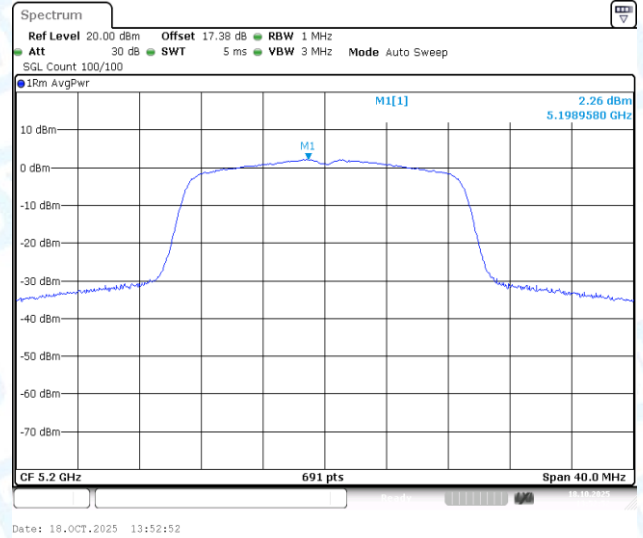
11A-Ant1-5785-PASS



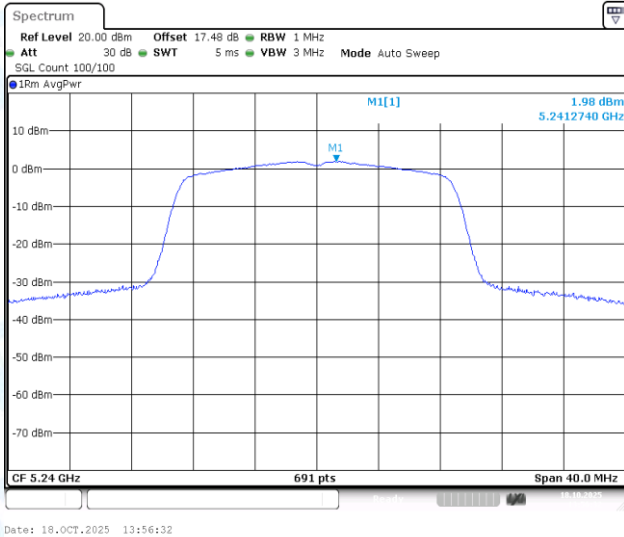
11A-Ant1-5825-PASS



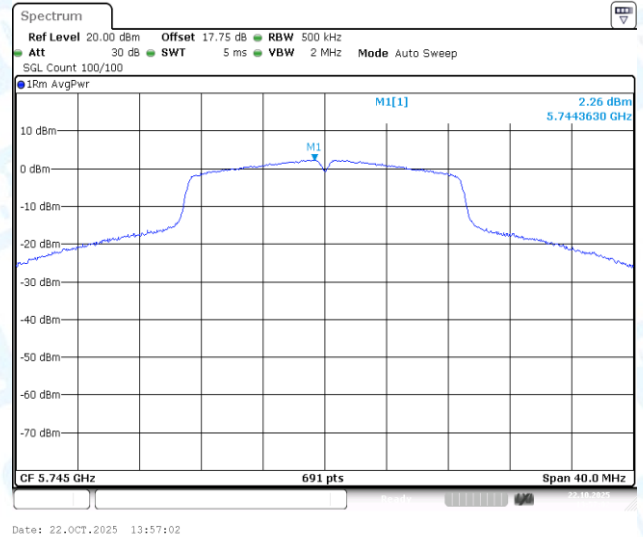
11N20SISO-Ant1-5180-PASS



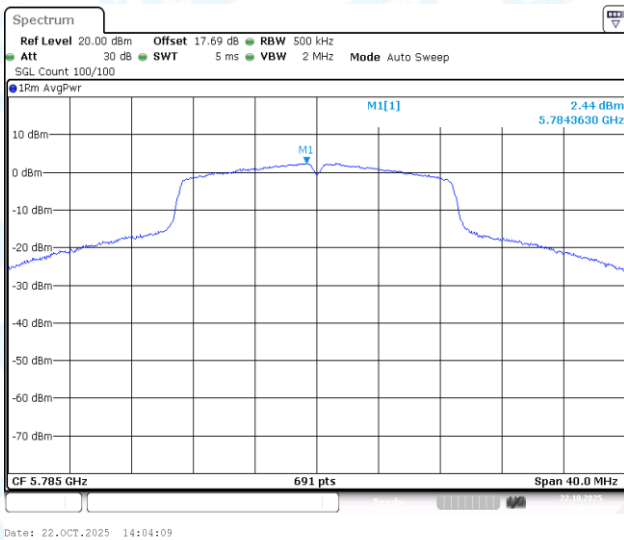
11N20SISO-Ant1-5200-PASS



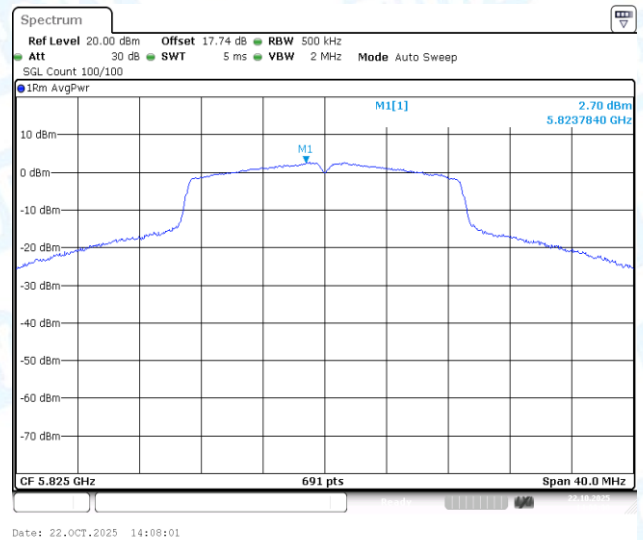
11N20SISO-Ant1-5240-PASS



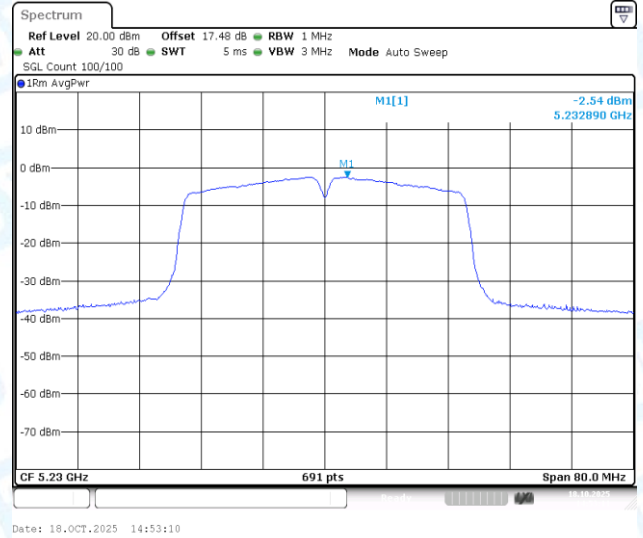
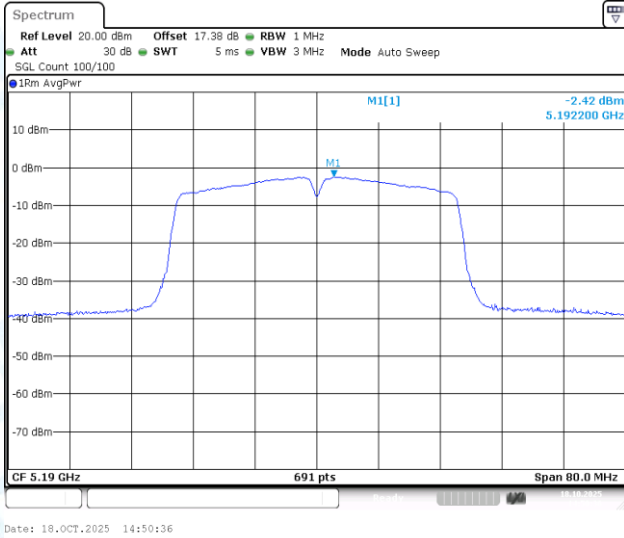
11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS

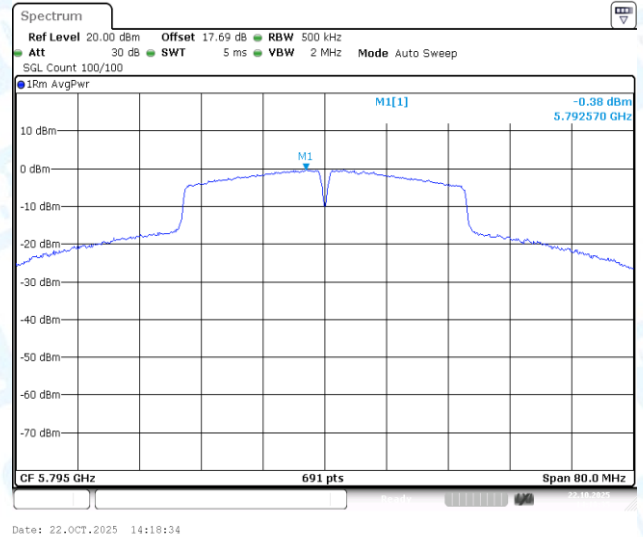
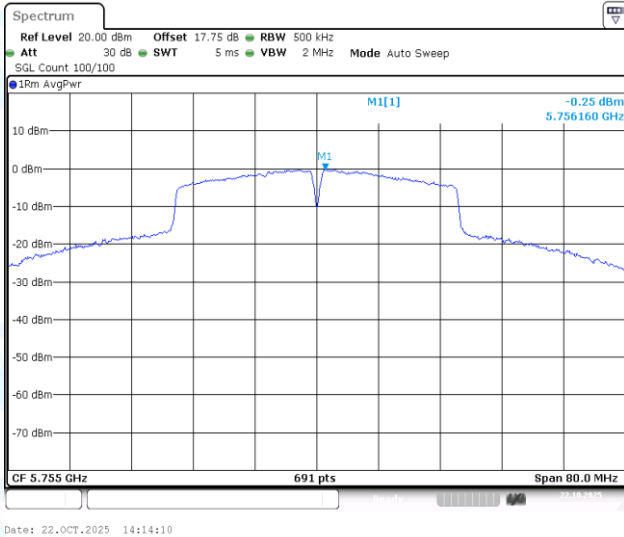


11N20SISO-Ant1-5825-PASS



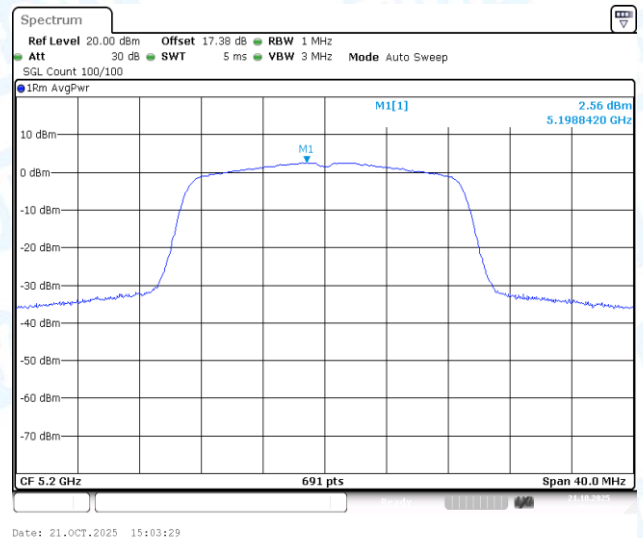
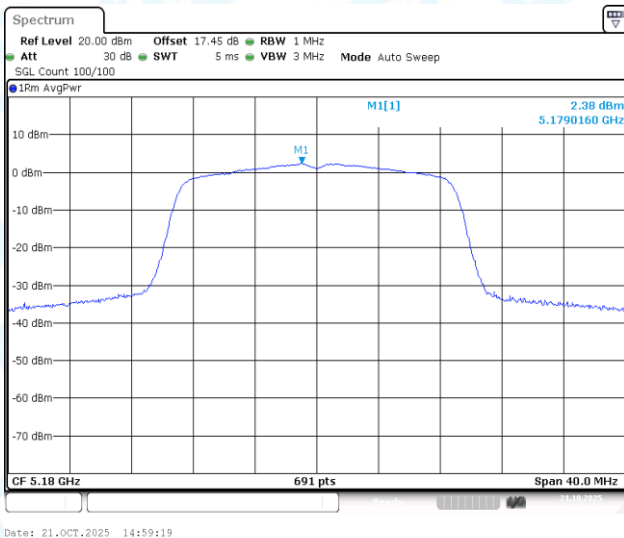
11N40SISO-Ant1-5190-PASS

11N40SISO-Ant1-5230-PASS



11N40SISO-Ant1-5755-PASS

11N40SISO-Ant1-5795-PASS



11AC20SISO-Ant1-5180-PASS

11AC20SISO-Ant1-5200-PASS