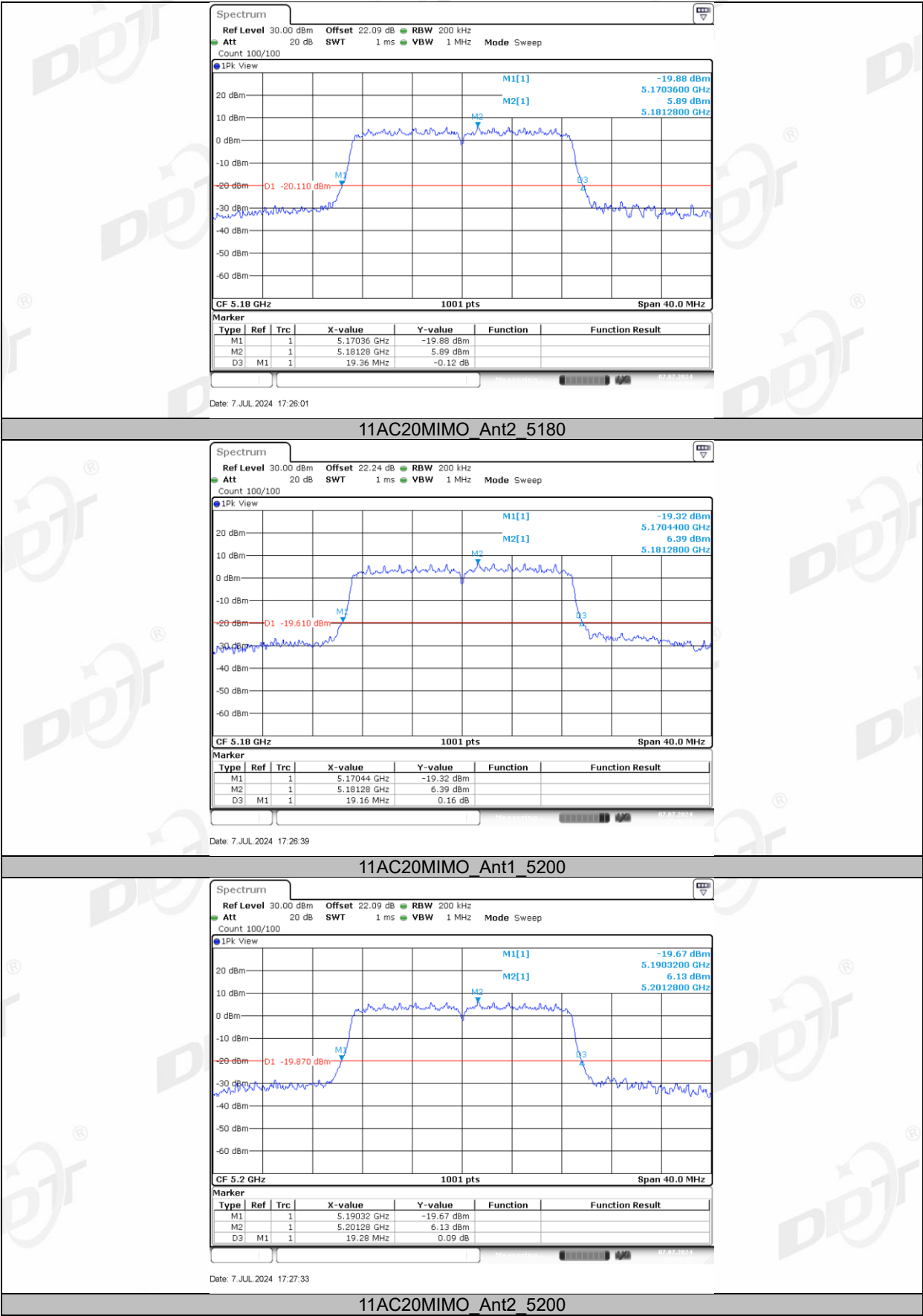
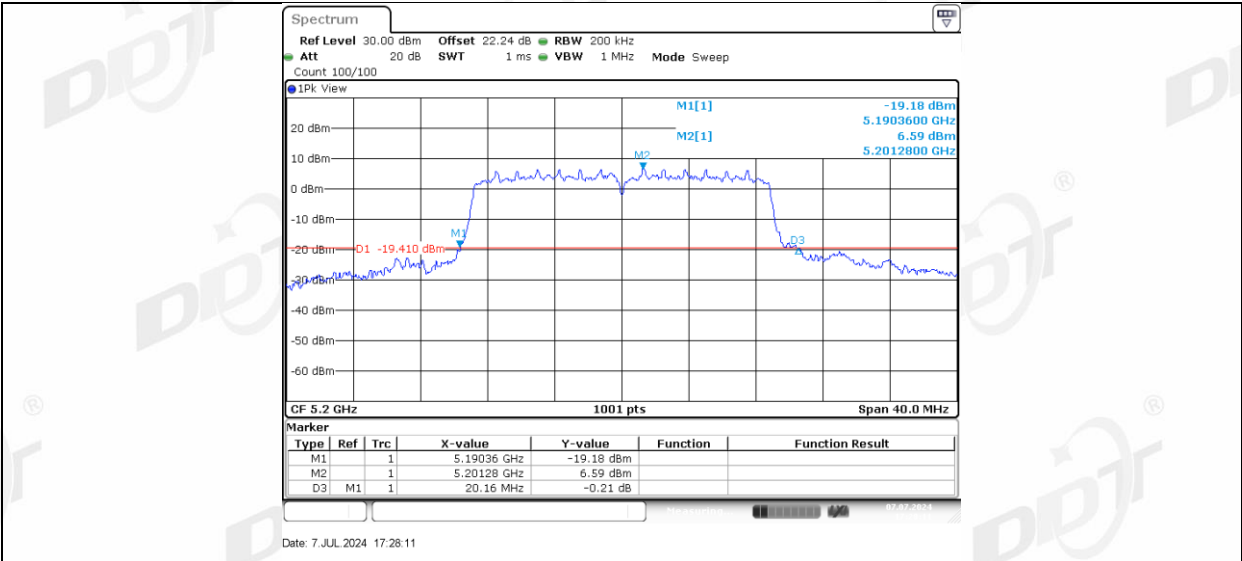


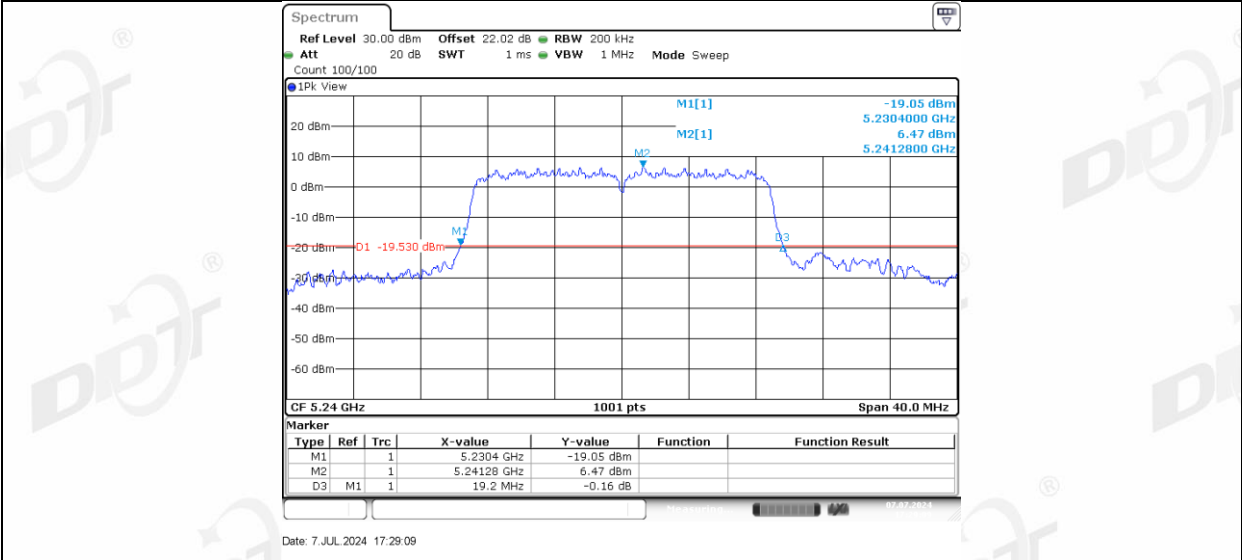




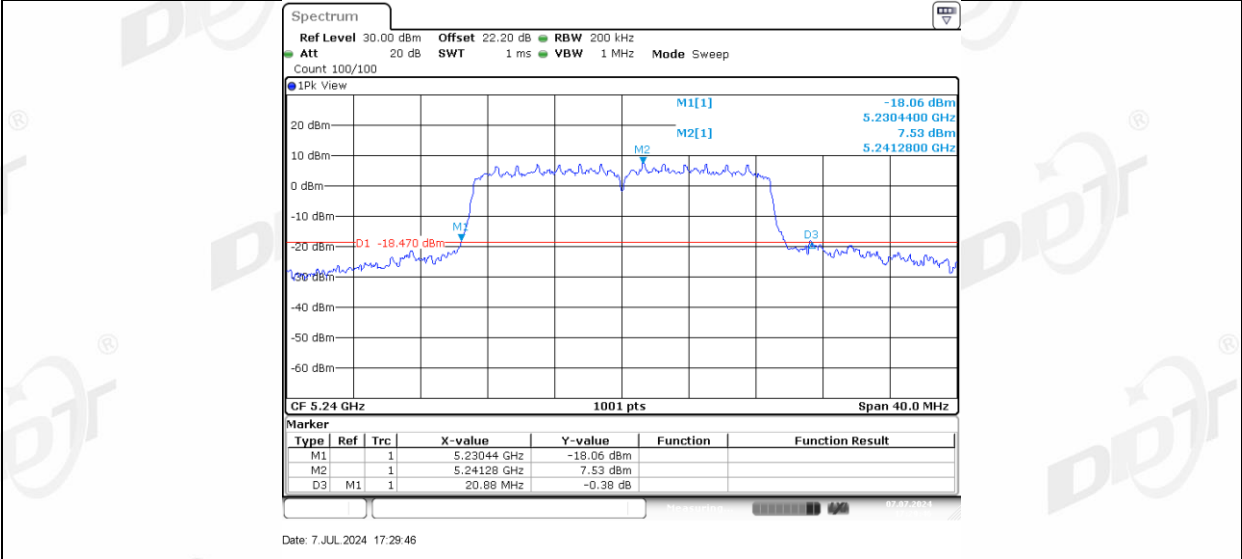




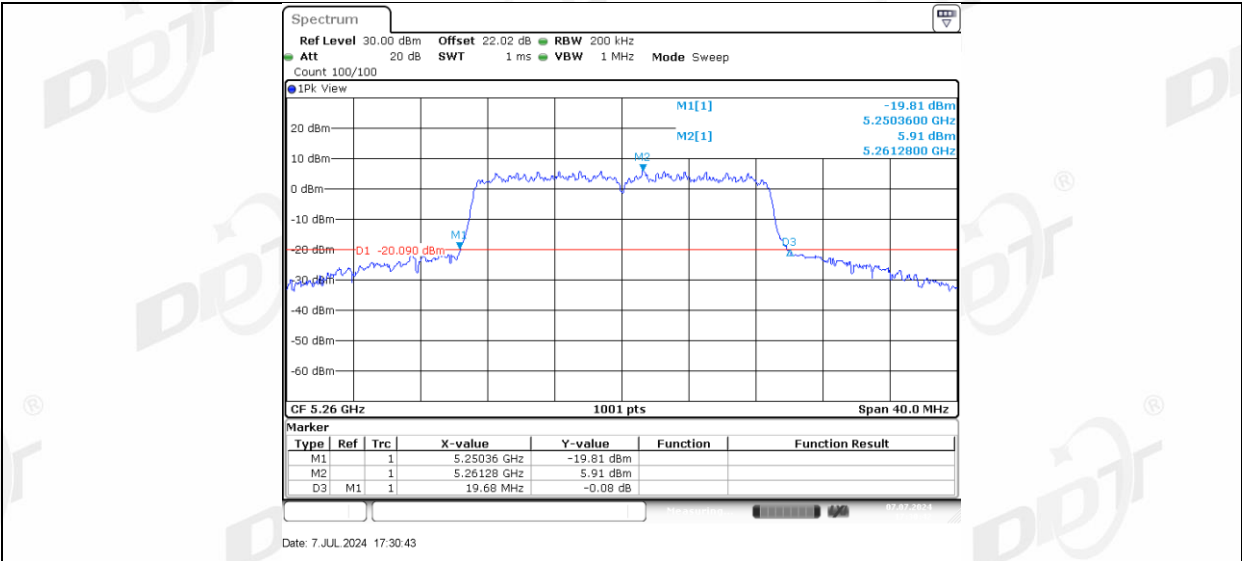
11AC20MIMO_Ant1_5240



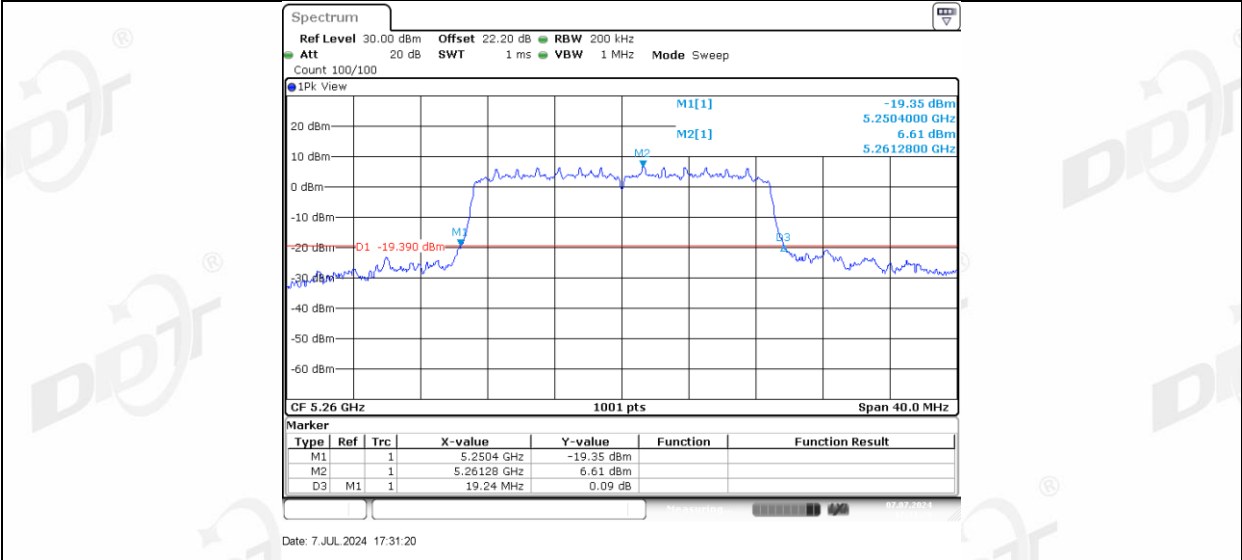
11AC20MIMO_Ant2_5240



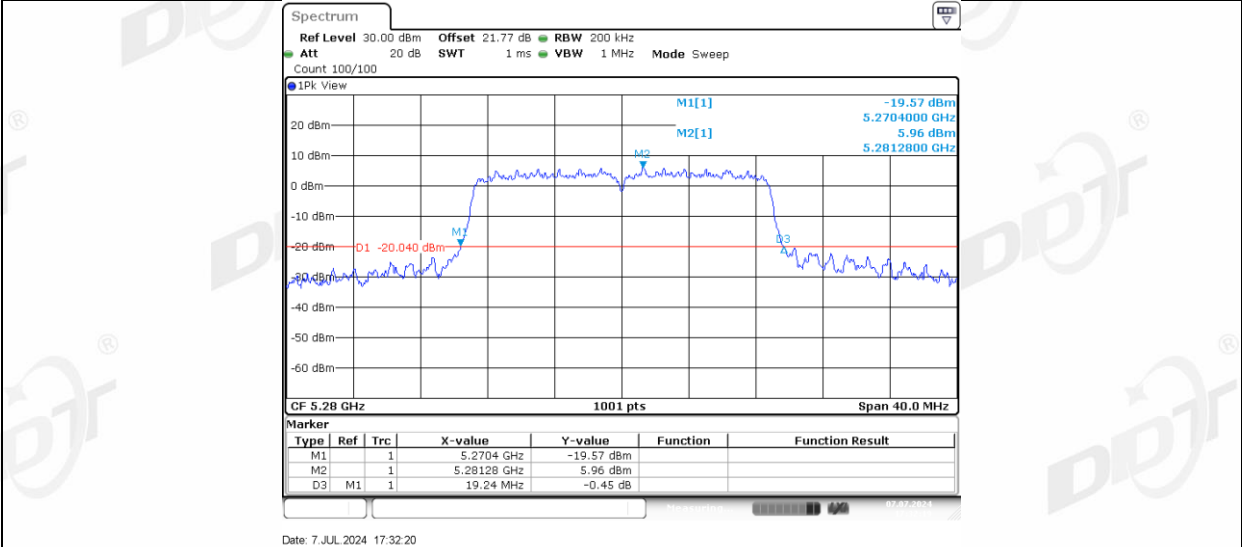
11AC20MIMO_Ant1_5260



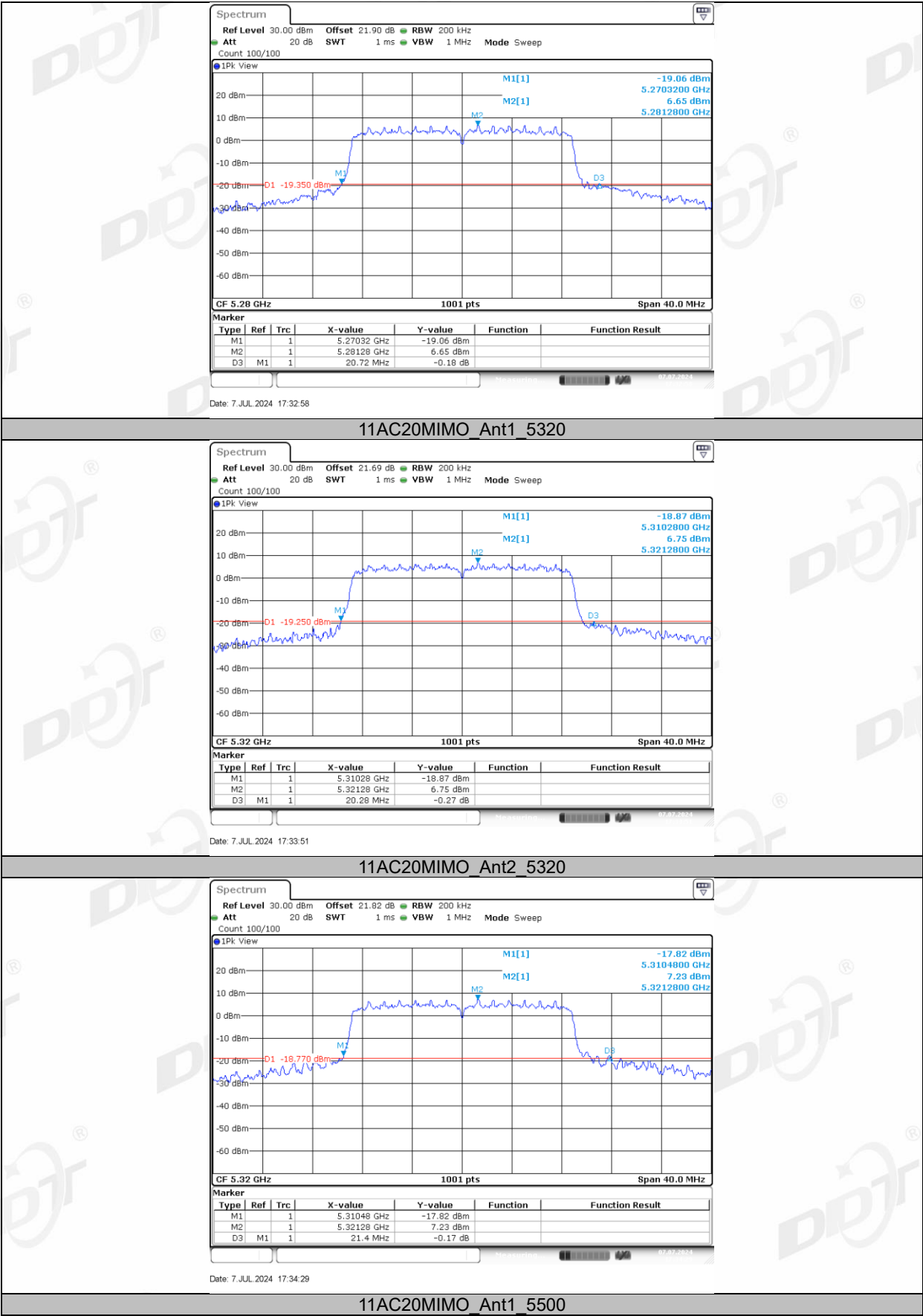
11AC20MIMO_Ant2_5260

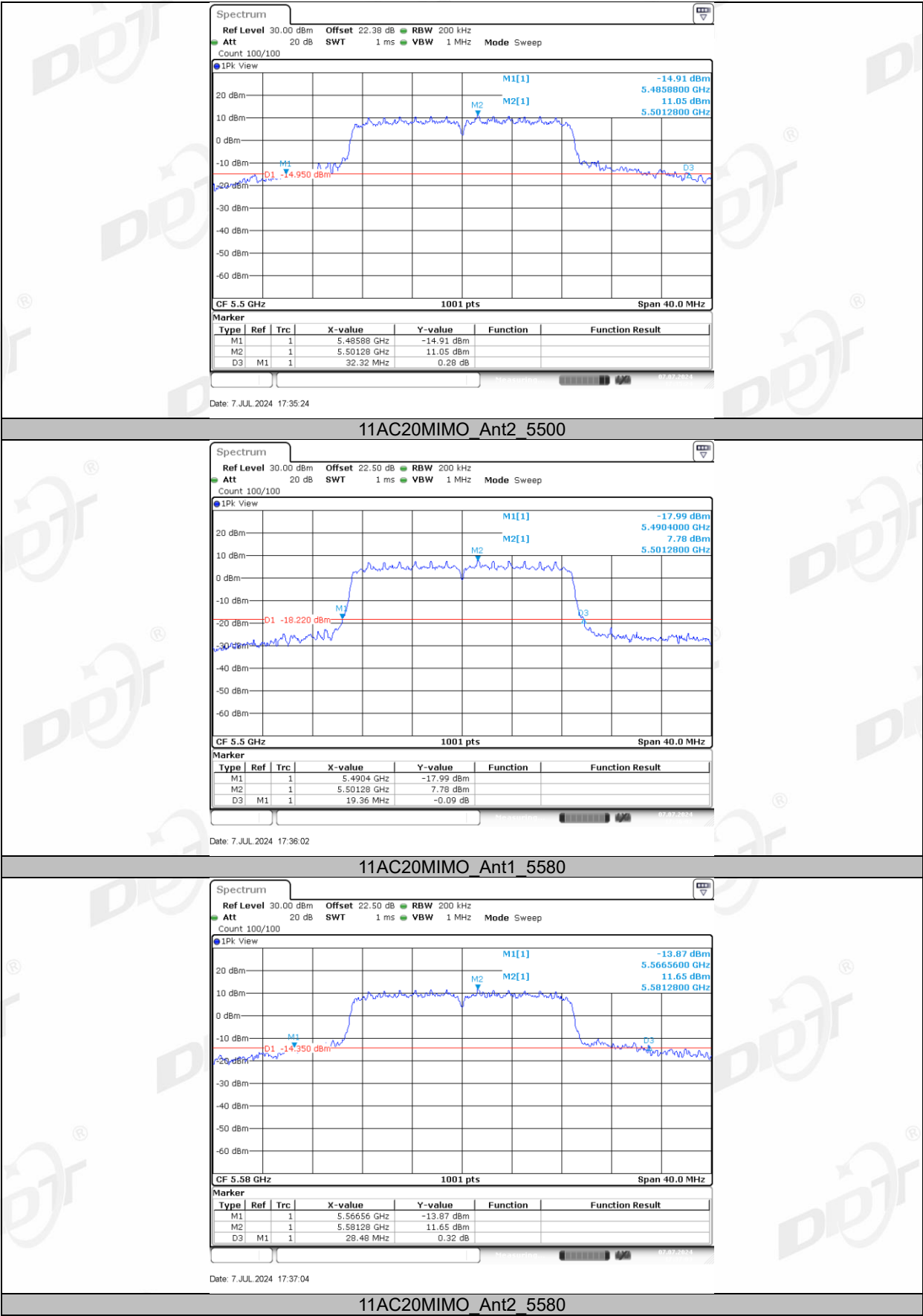


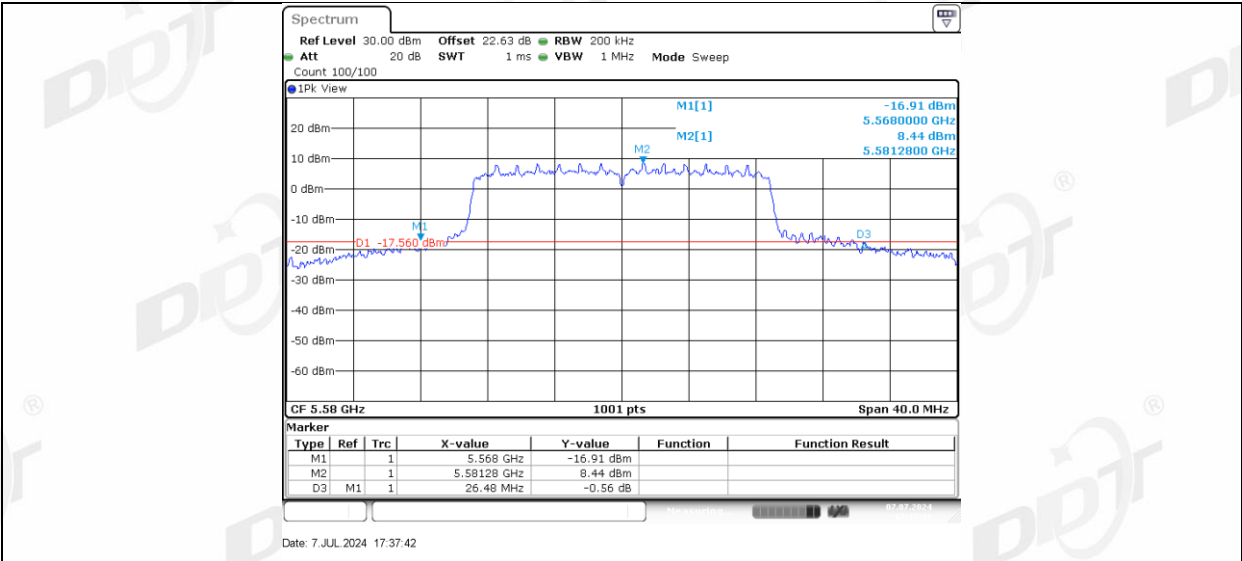
11AC20MIMO_Ant1_5280



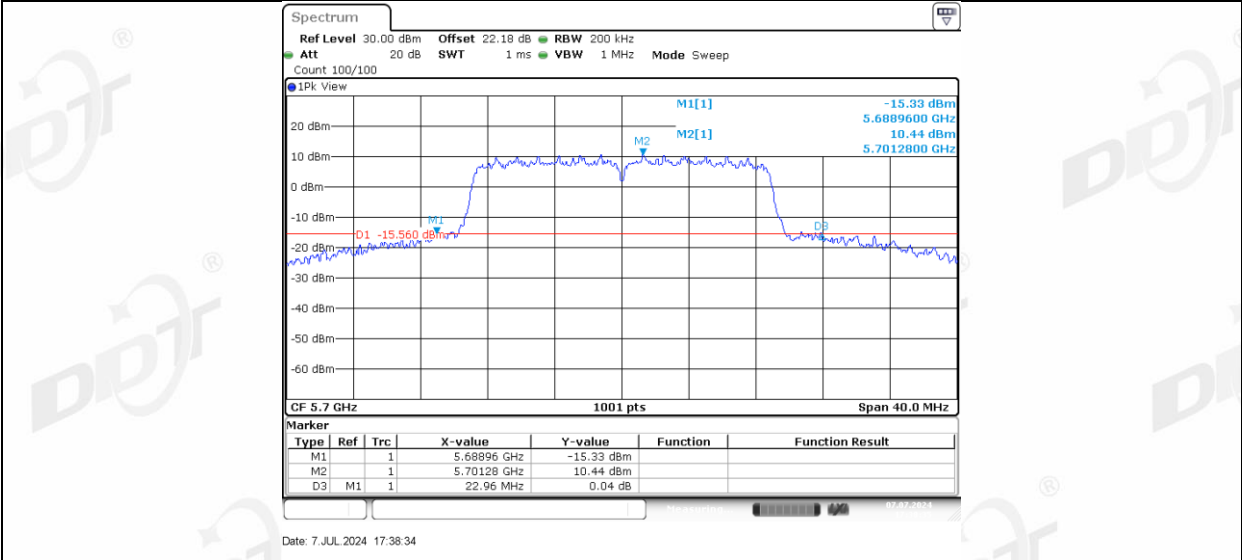
11AC20MIMO_Ant2_5280



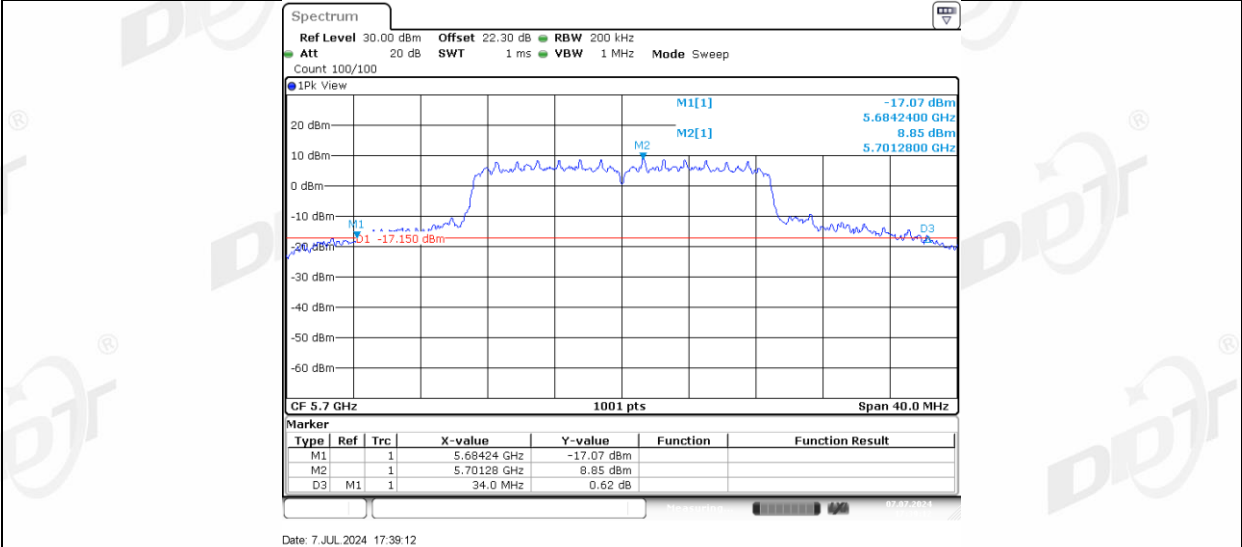




11AC20MIMO_Ant1_5700

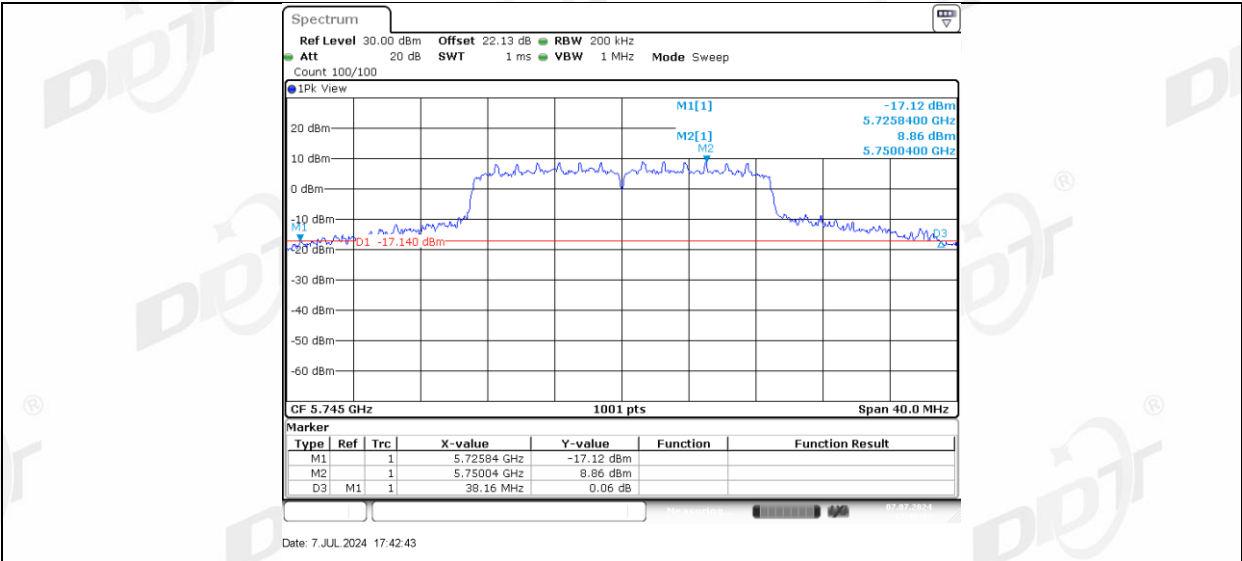


11AC20MIMO_Ant2_5700

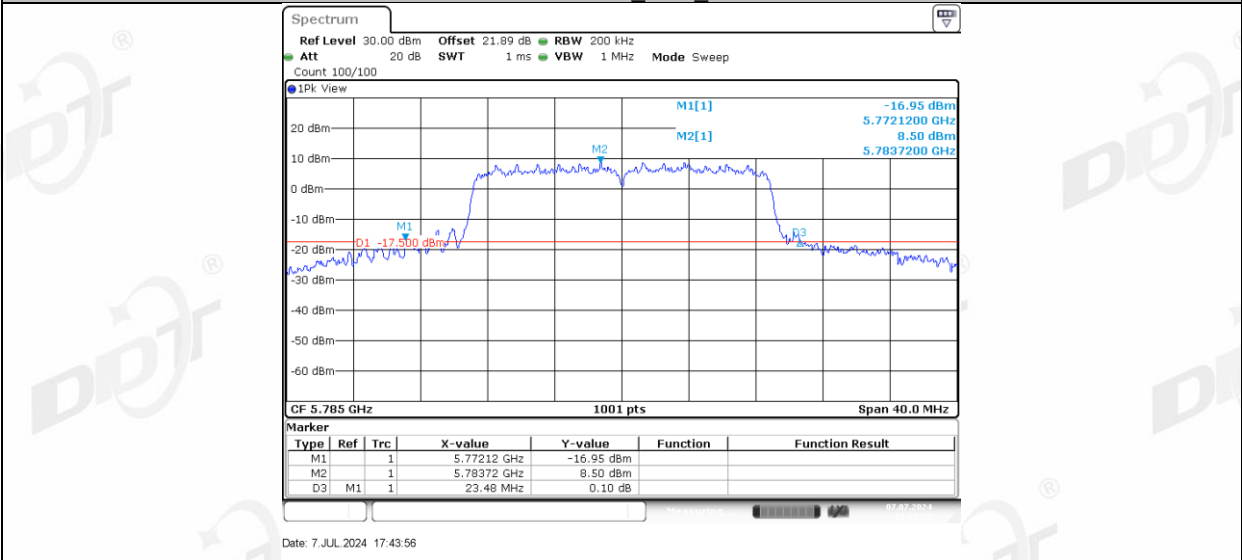


11AC20MIMO_Ant1_5720

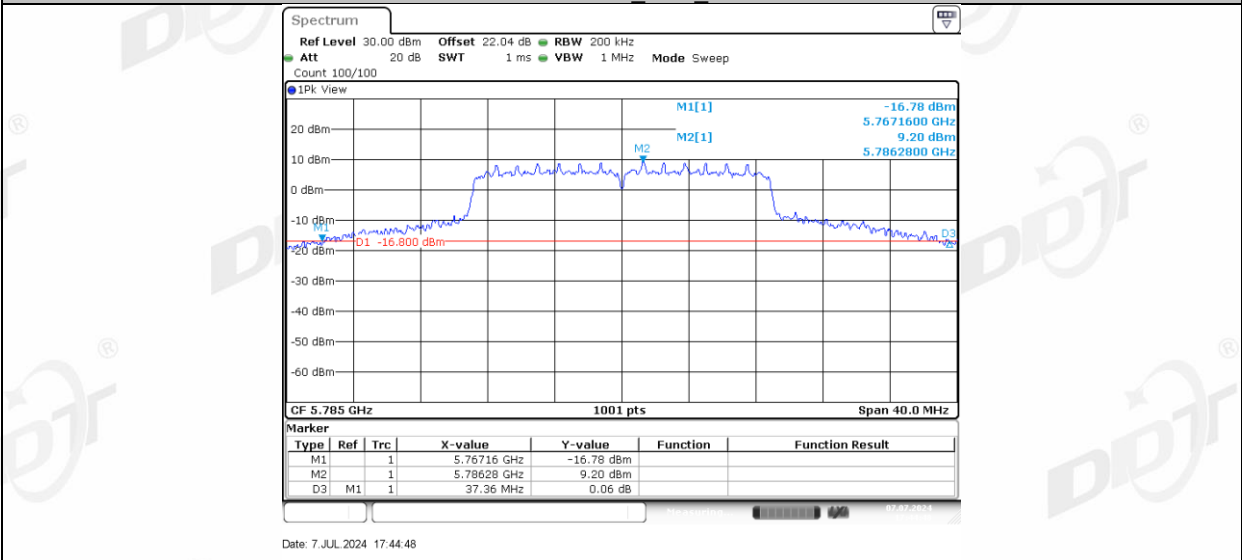




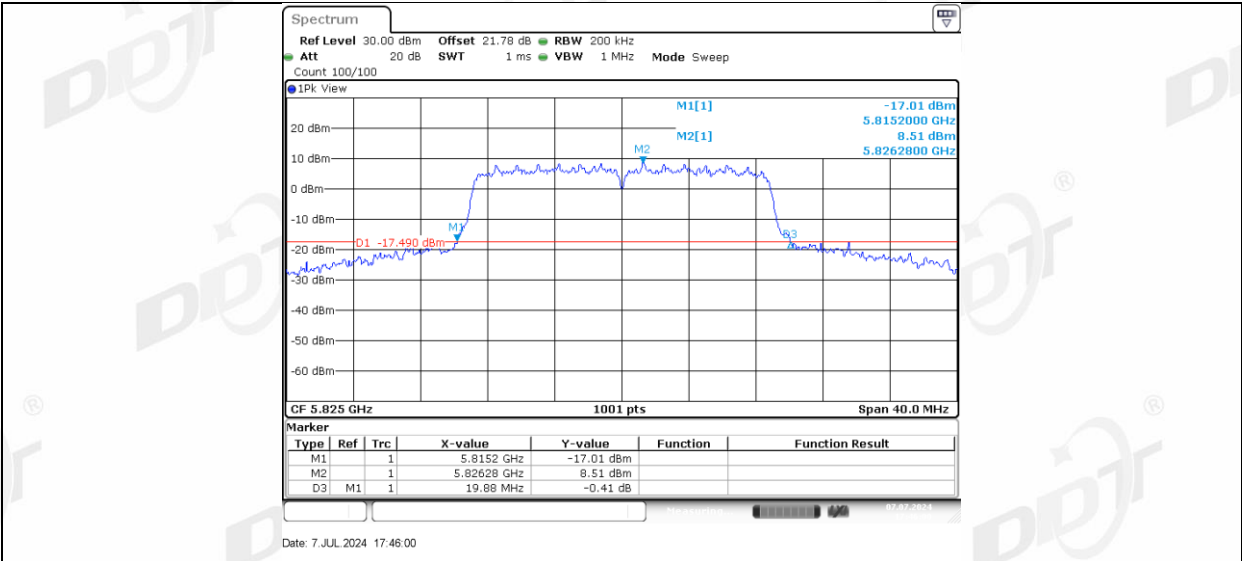
11AC20MIMO_Ant1_5785



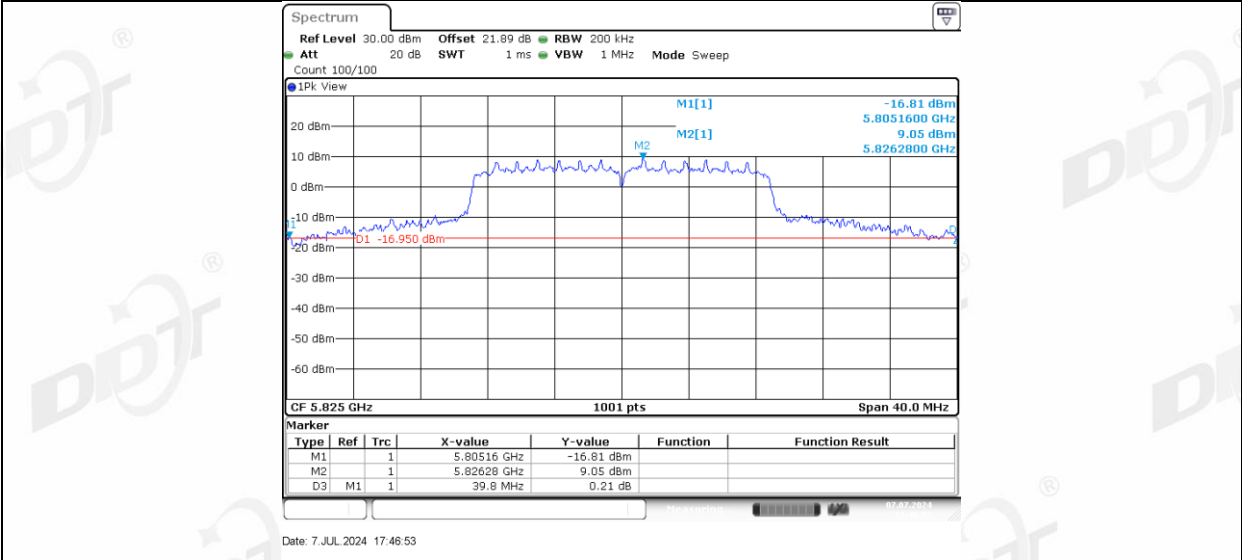
11AC20MIMO_Ant2_5785



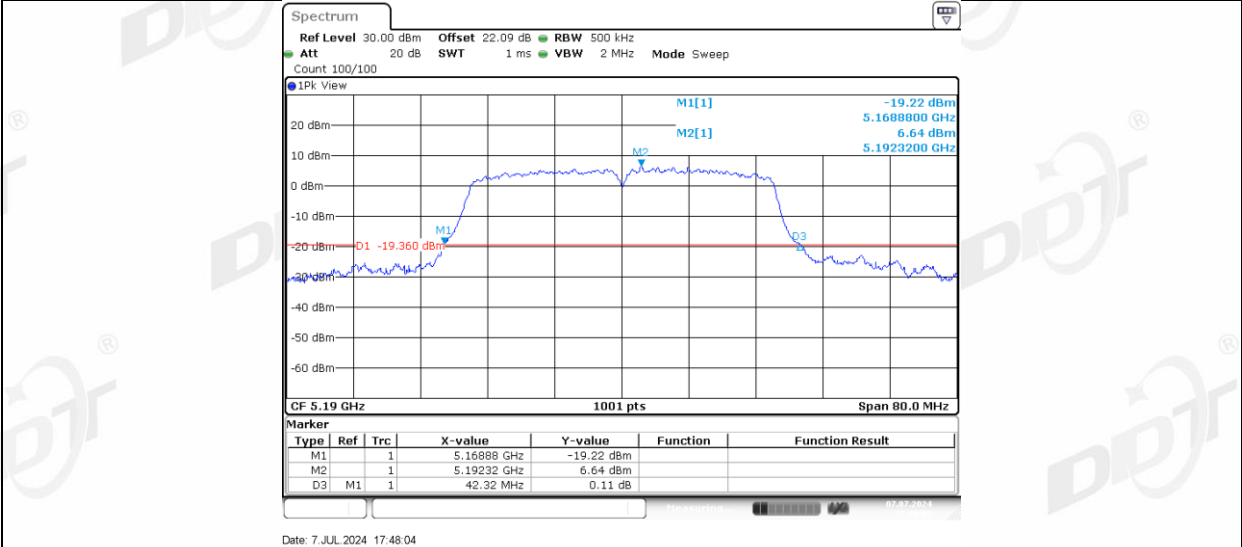
11AC20MIMO_Ant1_5825



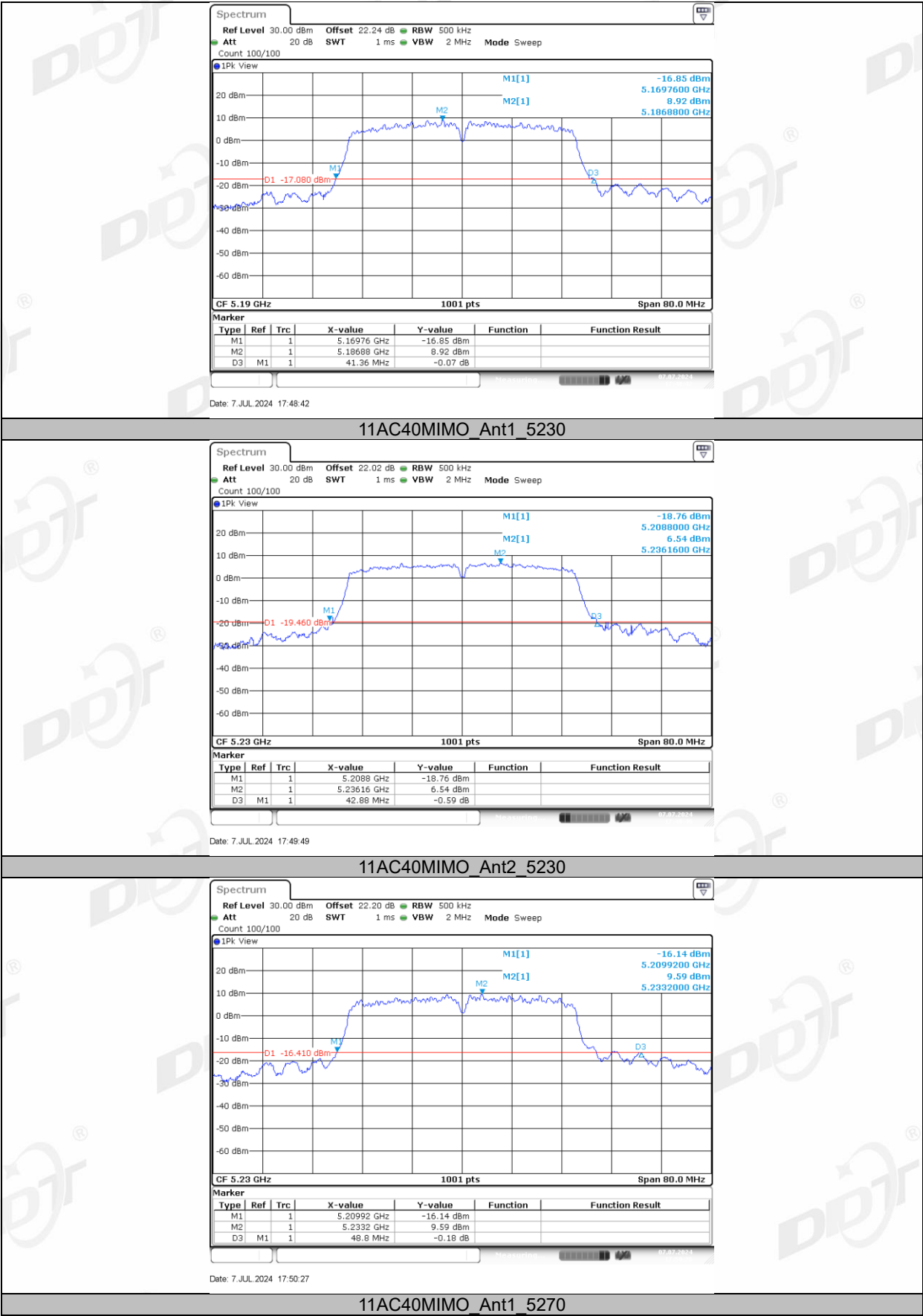
11AC20MIMO_Ant2_5825



11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190



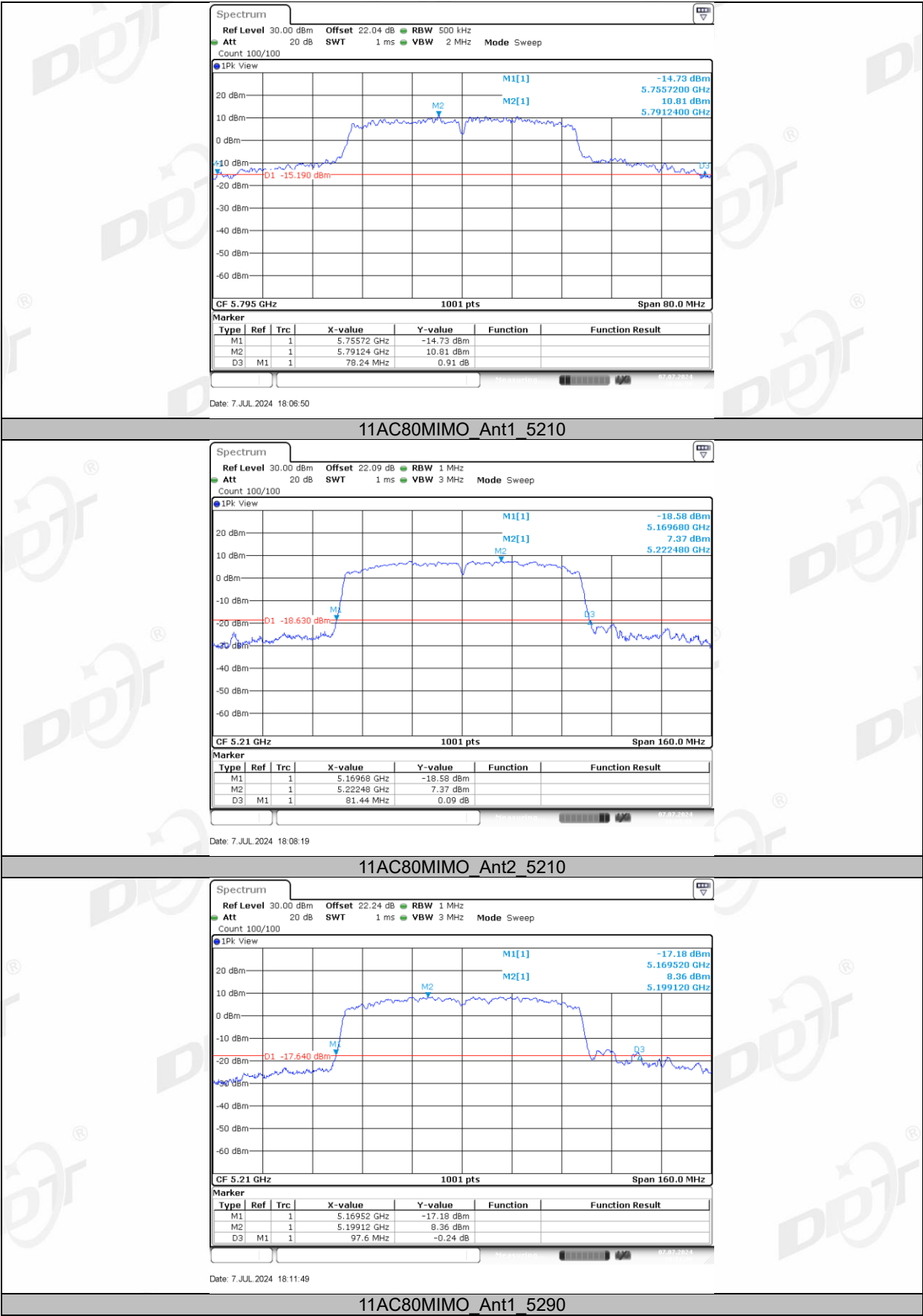


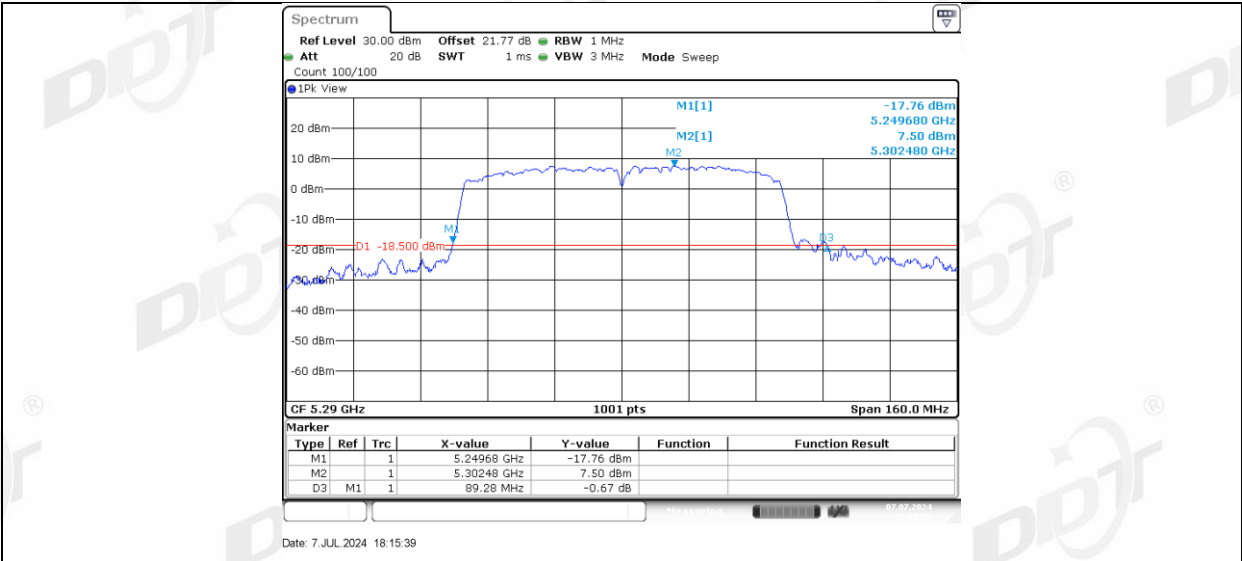




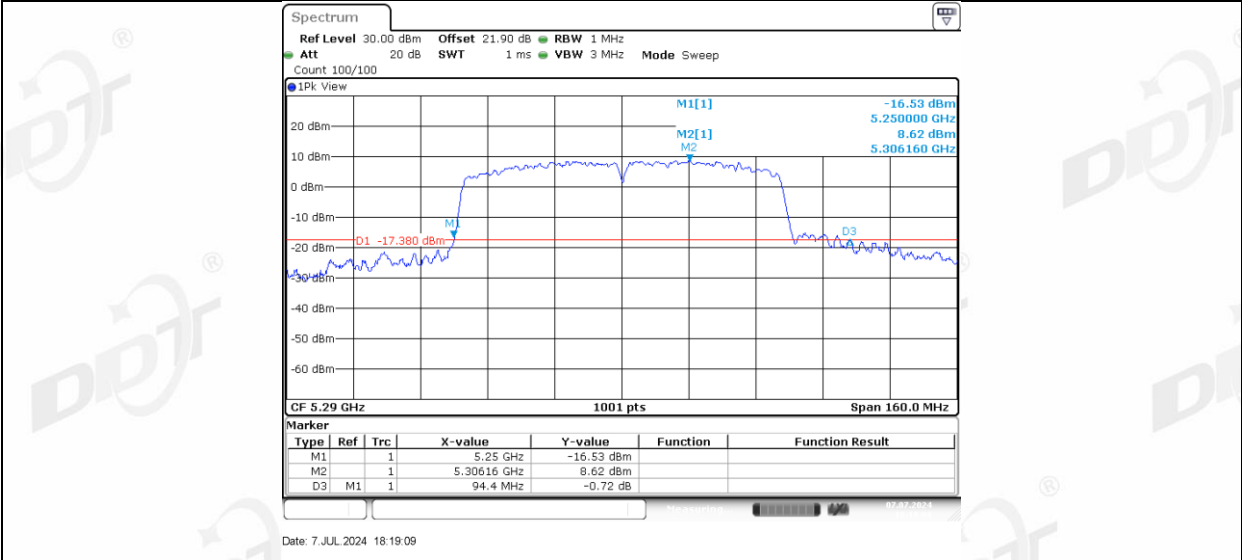




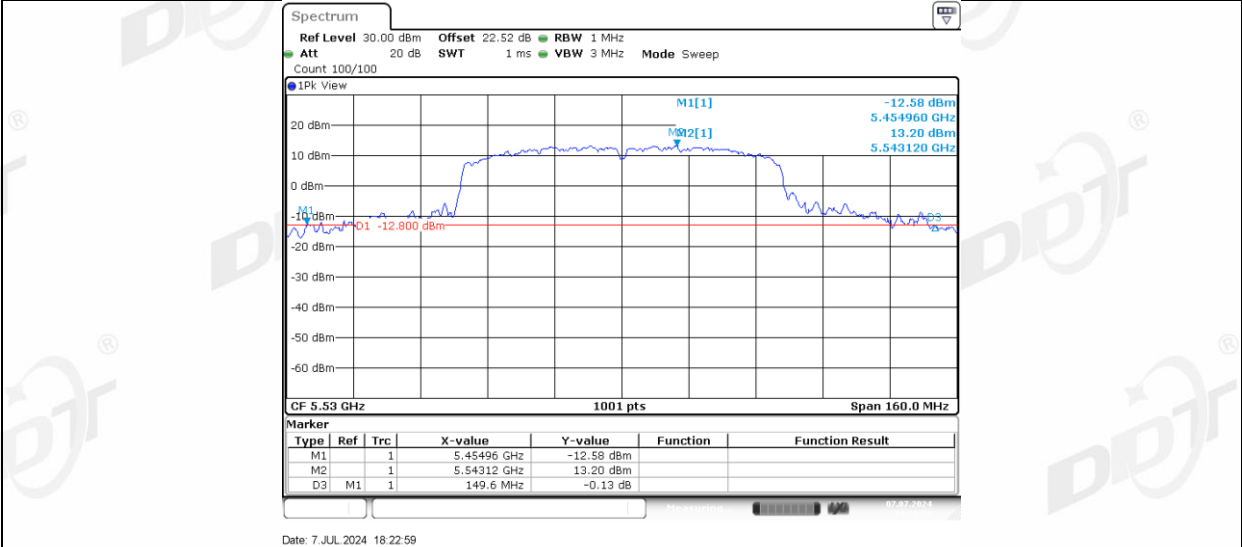




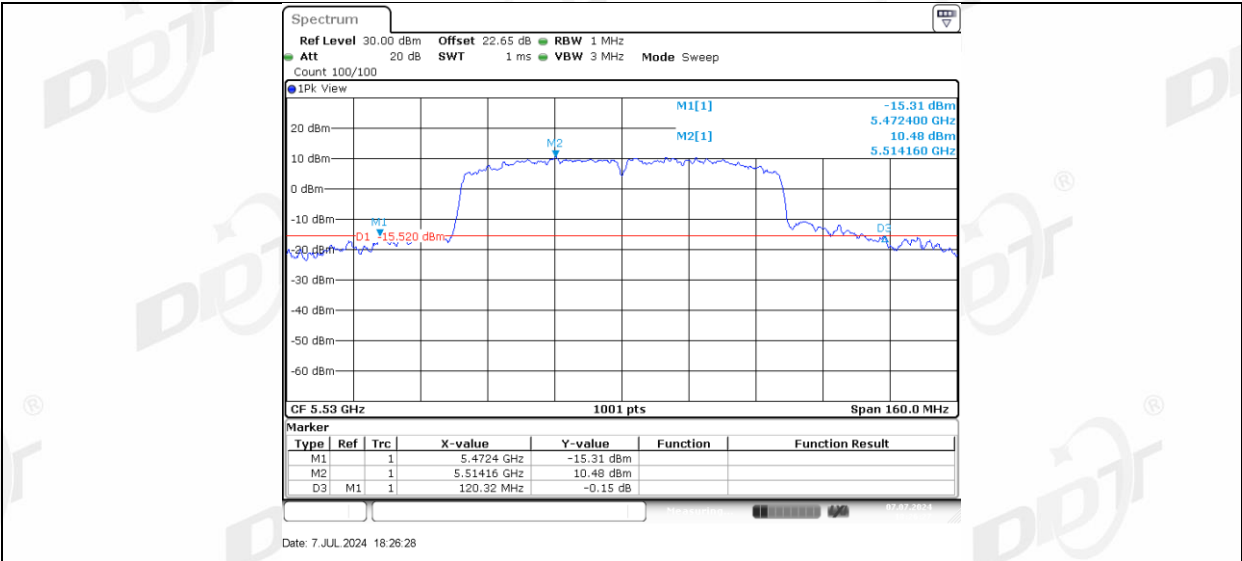
11AC80MIMO_Ant2_5290



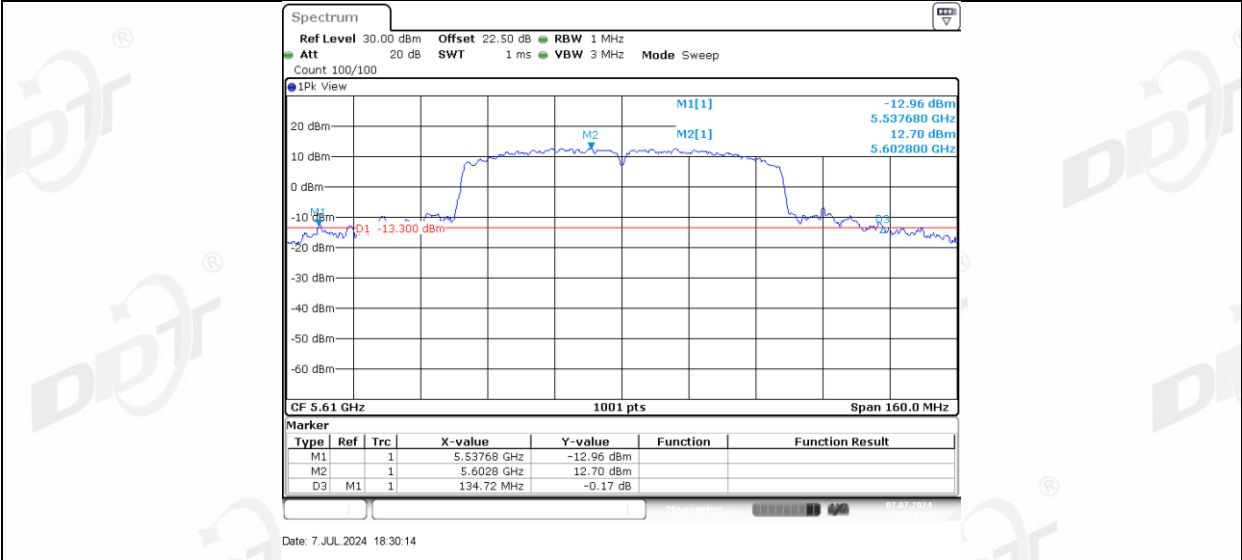
11AC80MIMO_Ant1_5530



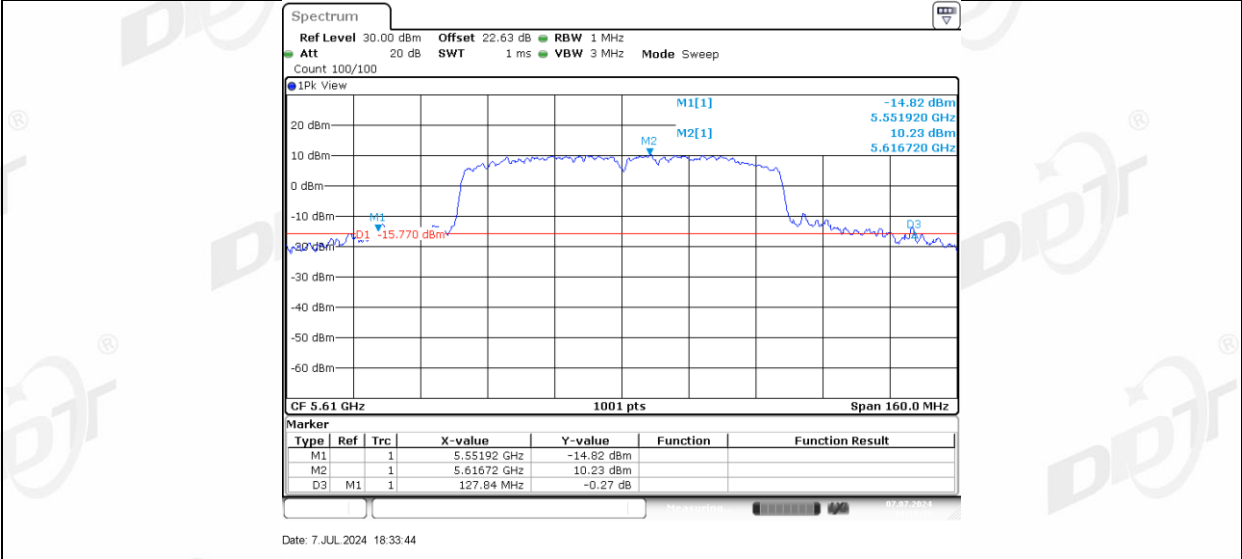
11AC80MIMO_Ant2_5530



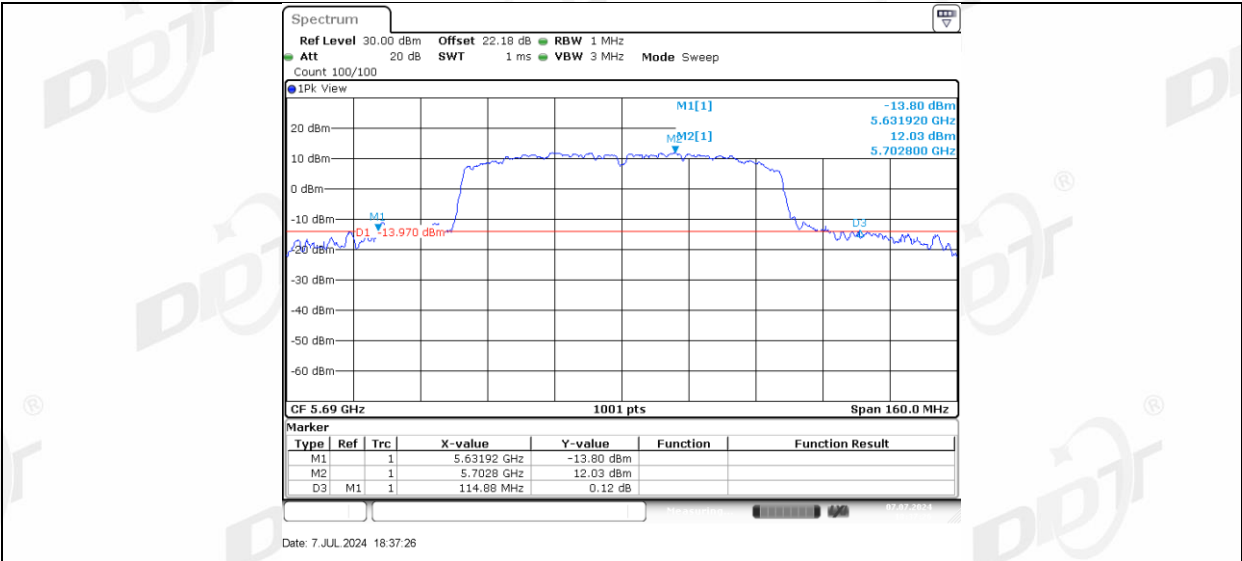
11AC80MIMO_Ant1_5610



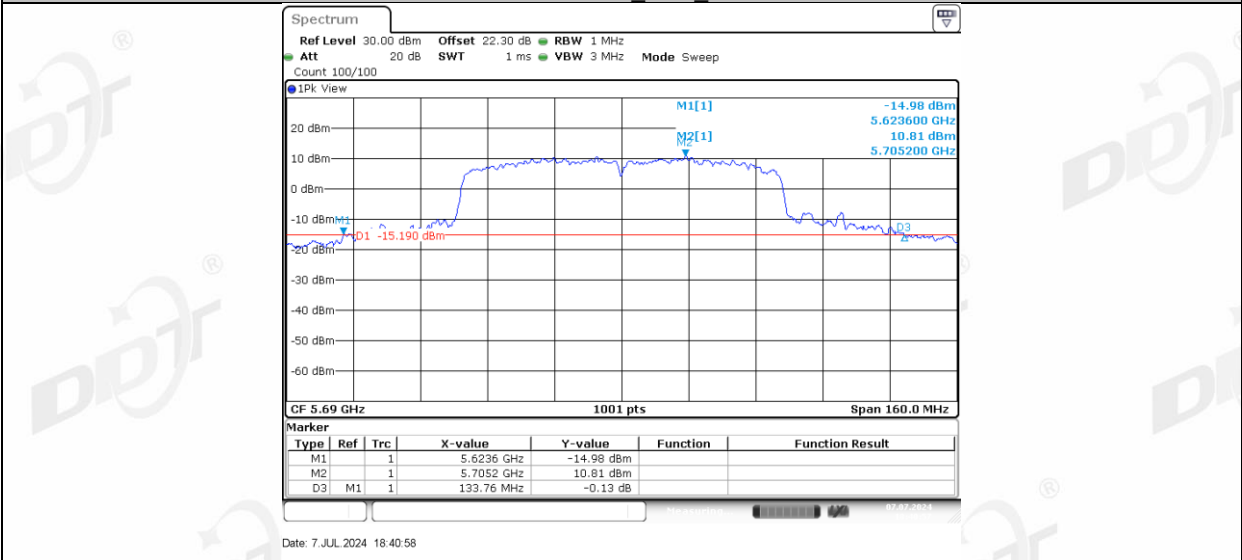
11AC80MIMO_Ant2_5610



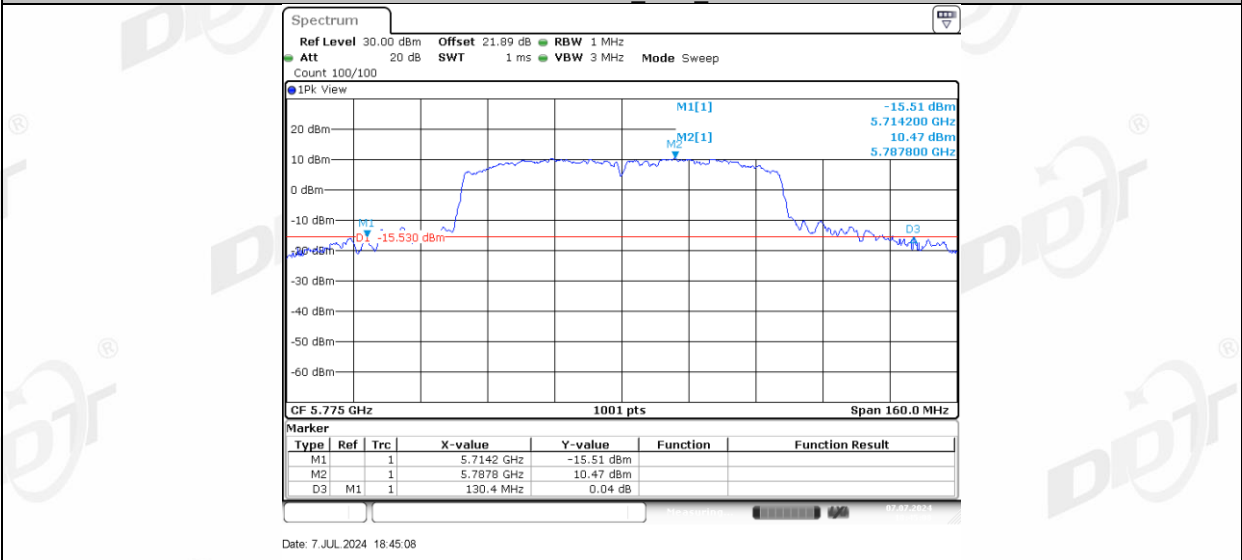
11AC80MIMO_Ant1_5690



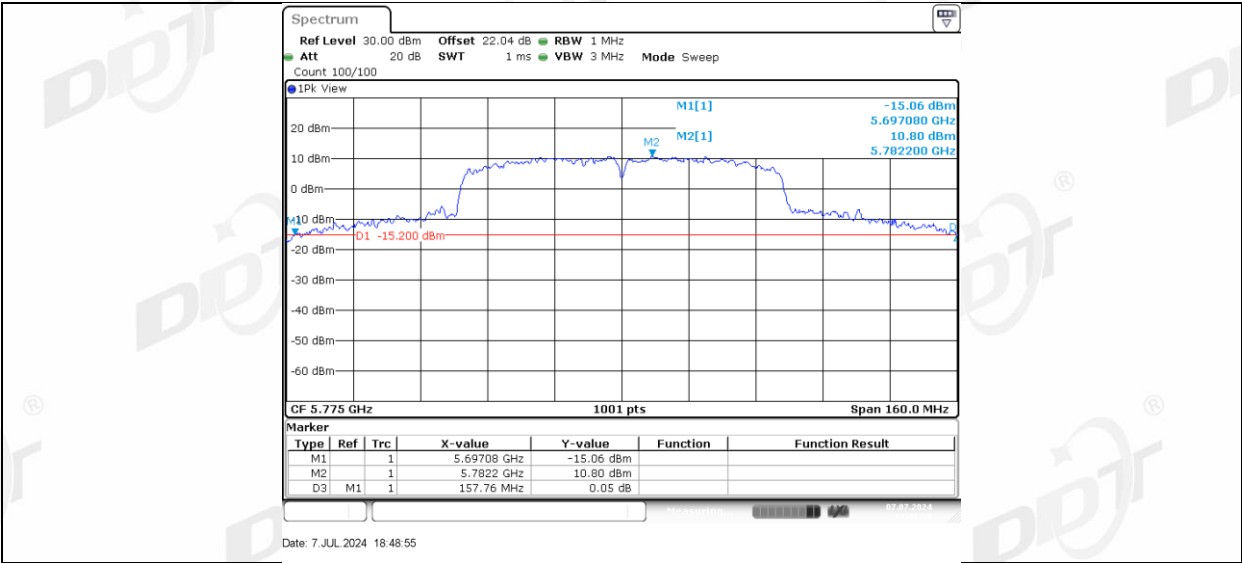
11AC80MIMO_Ant2_5690



11AC80MIMO_Ant1_5775

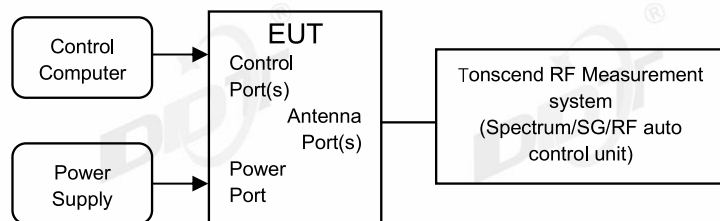


11AC80MIMO_Ant2_5775



5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

5.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

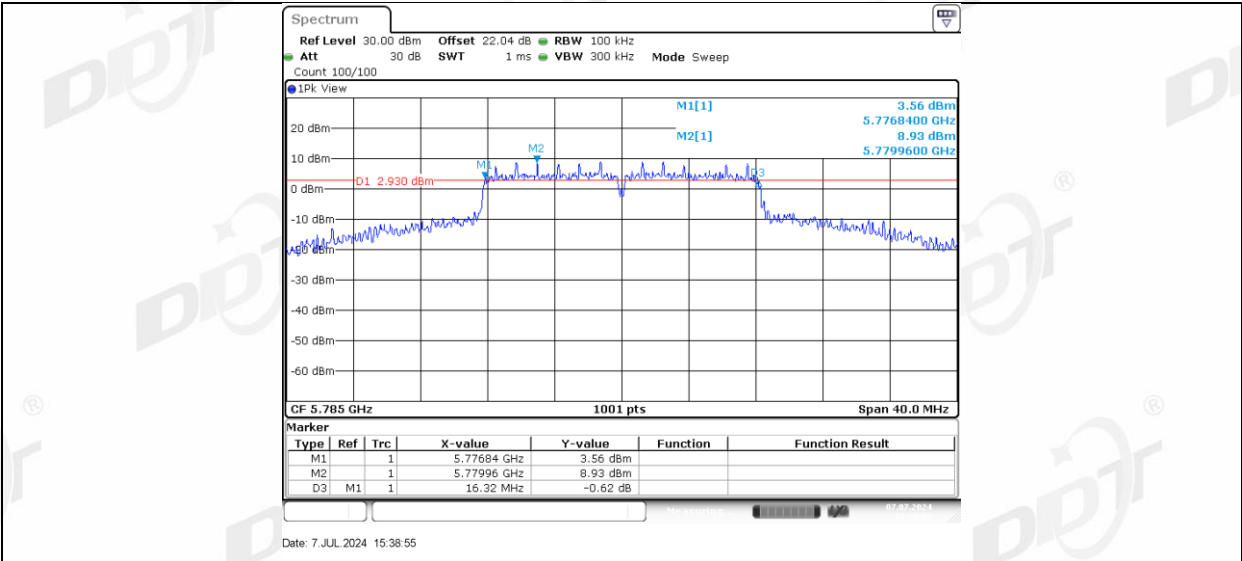
5.4. Test result B4

Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	26.1℃,38.6%RH	Test Date:	2024.07.07-2024.07.30
Test Power Supply:	DC 12V	Sample Number:	S24062520-003

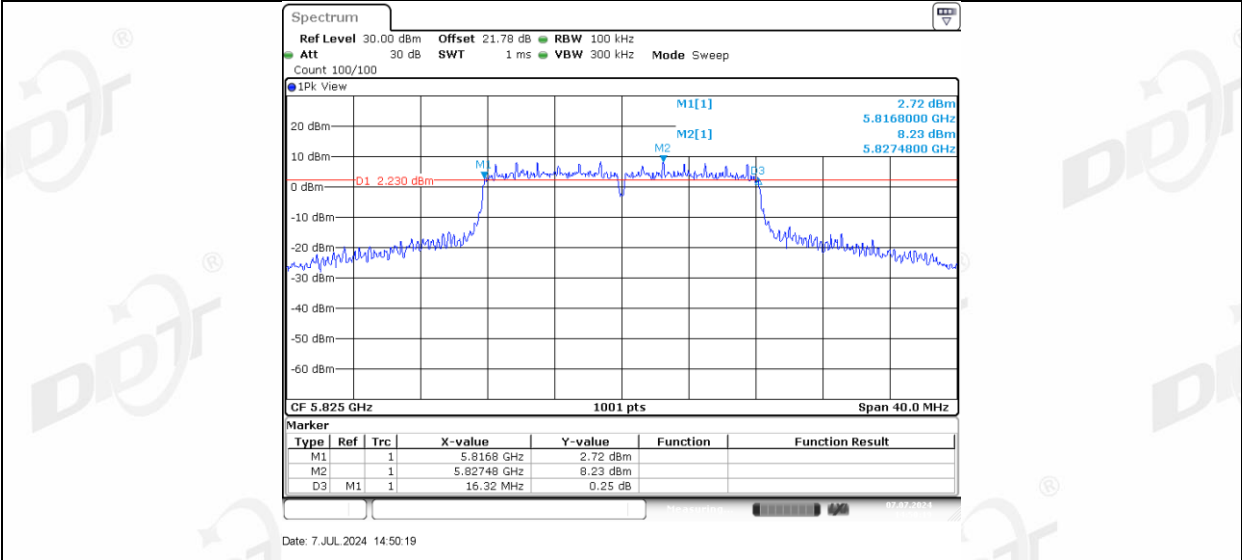
Test Mode	Antenna	Frequenc y[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.32	5736.80	5753.12	0.5	PASS
	Ant2	5745	16.32	5736.80	5753.12	0.5	PASS
	Ant1	5785	16.28	5776.84	5793.12	0.5	PASS
	Ant2	5785	16.32	5776.84	5793.16	0.5	PASS
	Ant1	5825	16.32	5816.80	5833.12	0.5	PASS
	Ant2	5825	16.32	5816.80	5833.12	0.5	PASS
11N20MIM O	Ant1	5745	17.52	5736.24	5753.76	0.5	PASS
	Ant2	5745	17.28	5736.48	5753.76	0.5	PASS
	Ant1	5785	17.52	5776.24	5793.76	0.5	PASS
	Ant2	5785	17.16	5776.60	5793.76	0.5	PASS
	Ant1	5825	17.52	5816.24	5833.76	0.5	PASS
	Ant2	5825	17.56	5816.20	5833.76	0.5	PASS
11N40MIM O	Ant1	5755	35.12	5737.40	5772.52	0.5	PASS
	Ant2	5755	35.04	5737.48	5772.52	0.5	PASS
	Ant1	5795	35.12	5777.48	5812.60	0.5	PASS
	Ant2	5795	35.12	5777.48	5812.60	0.5	PASS
11AC20MI MO	Ant1	5745	17.52	5736.24	5753.76	0.5	PASS
	Ant2	5745	17.56	5736.20	5753.76	0.5	PASS
	Ant1	5785	17.52	5776.24	5793.76	0.5	PASS
	Ant2	5785	17.56	5776.24	5793.80	0.5	PASS
	Ant1	5825	17.16	5816.24	5833.40	0.5	PASS
	Ant2	5825	17.28	5816.20	5833.48	0.5	PASS
11AC40MI MO	Ant1	5755	35.20	5737.40	5772.60	0.5	PASS
	Ant2	5755	35.04	5737.48	5772.52	0.5	PASS
	Ant1	5795	35.12	5777.48	5812.60	0.5	PASS
	Ant2	5795	35.12	5777.48	5812.60	0.5	PASS
11AC80MI MO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant2	5775	71.36	5738.68	5810.04	0.5	PASS

5.5. Test graphs B4

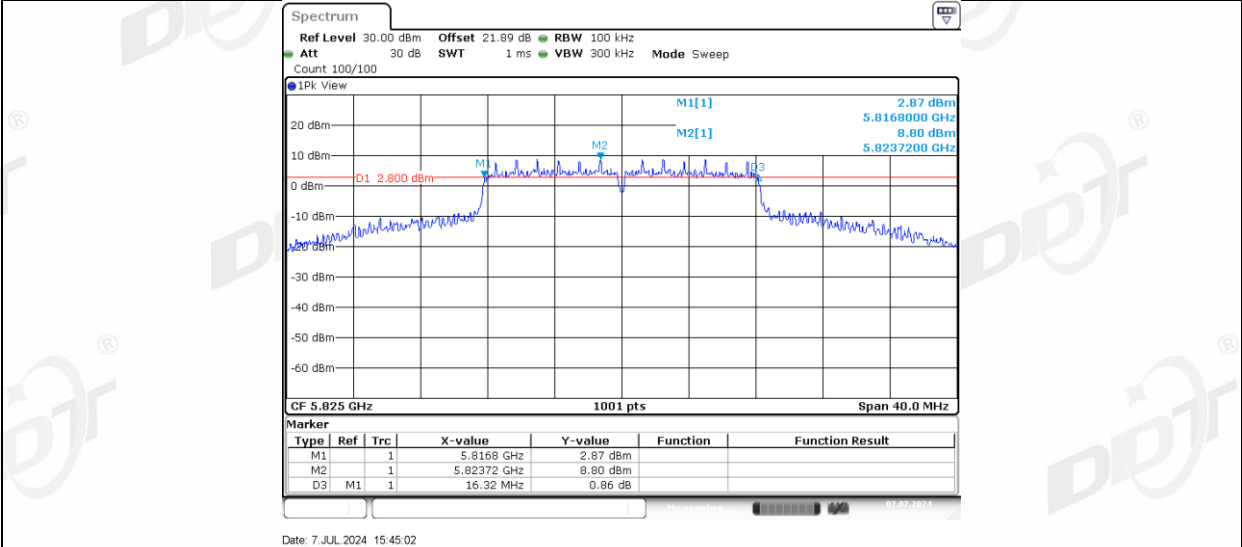




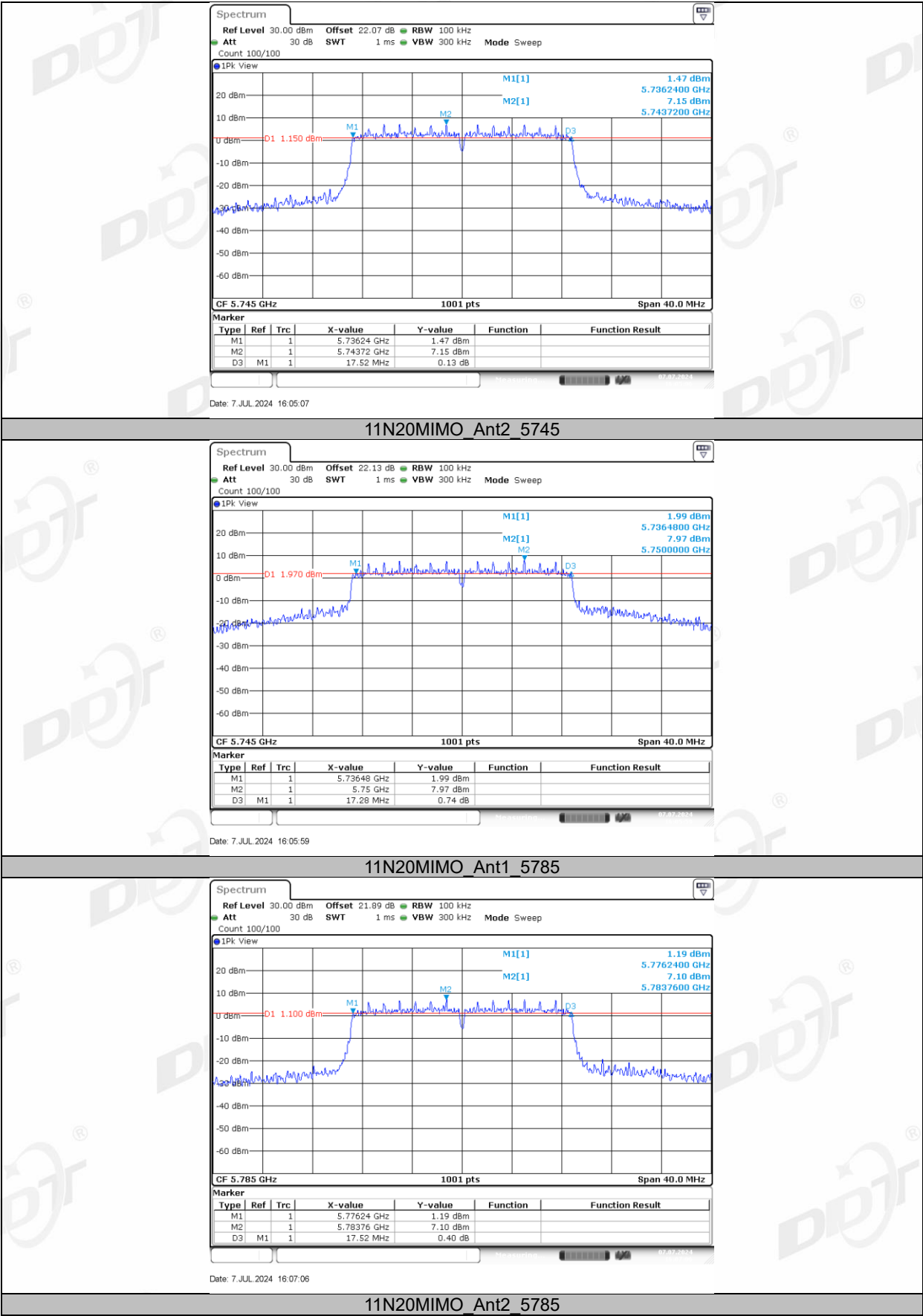
11A_Ant1_5825

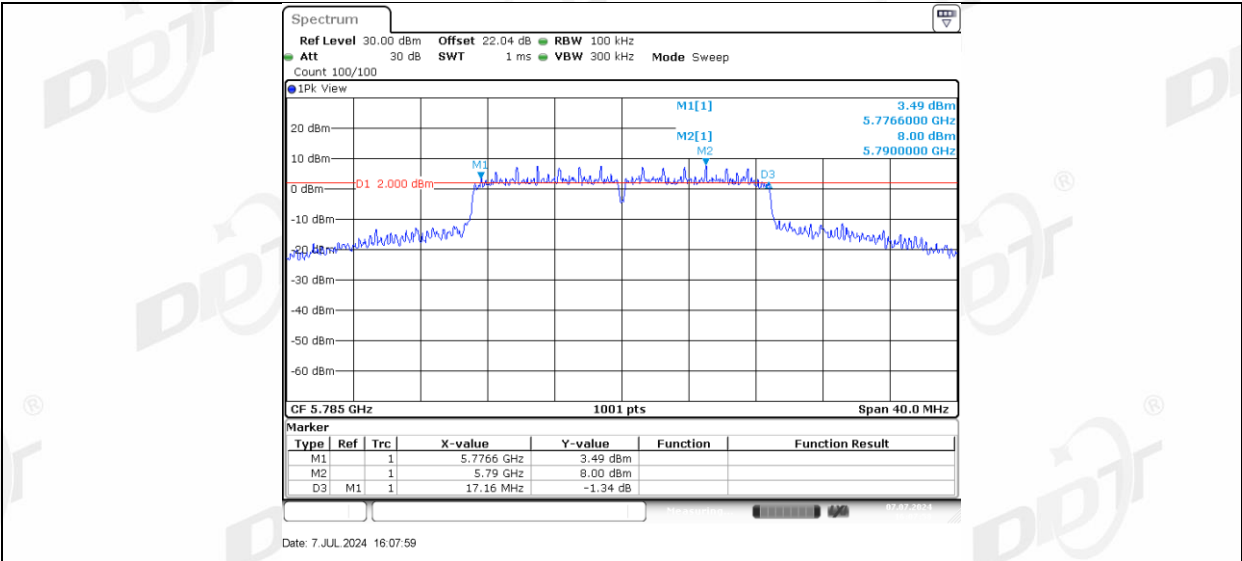


11A_Ant2_5825

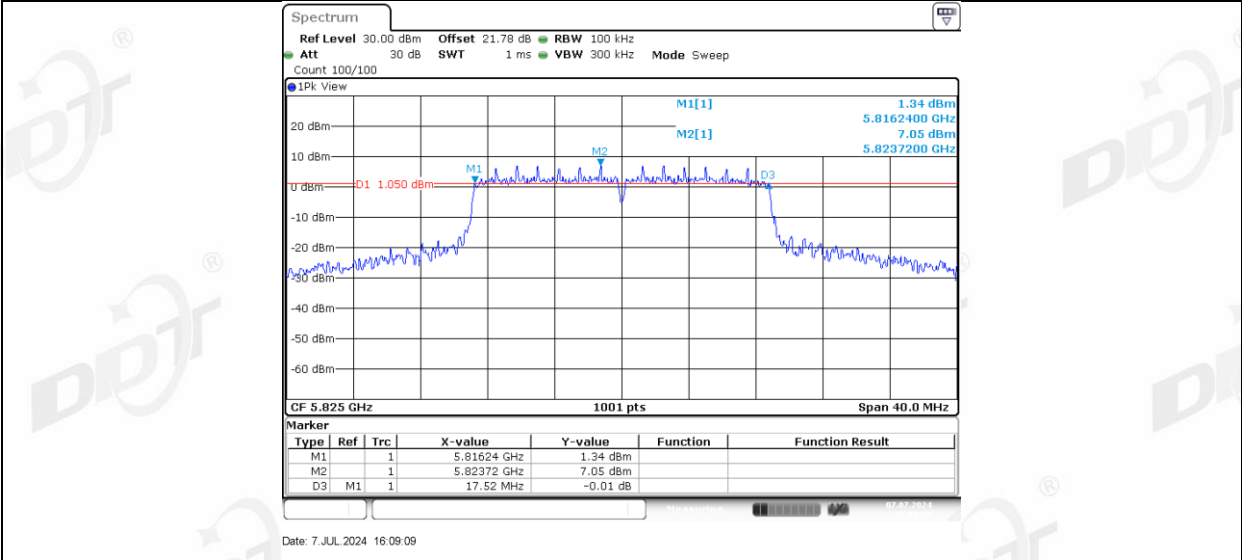


11N20MIMO_Ant1_5745

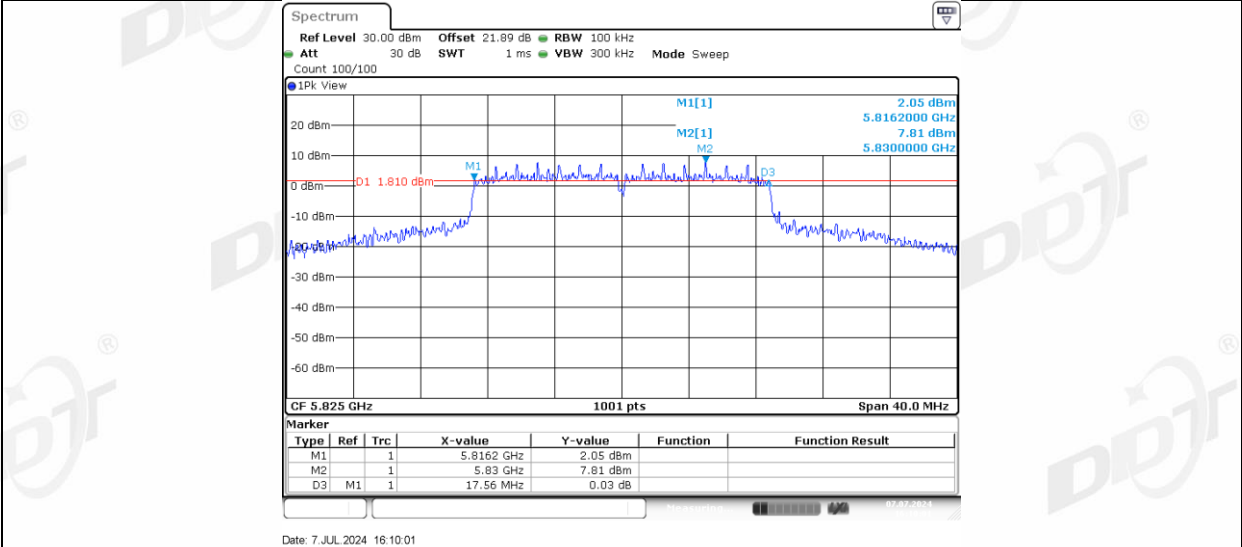




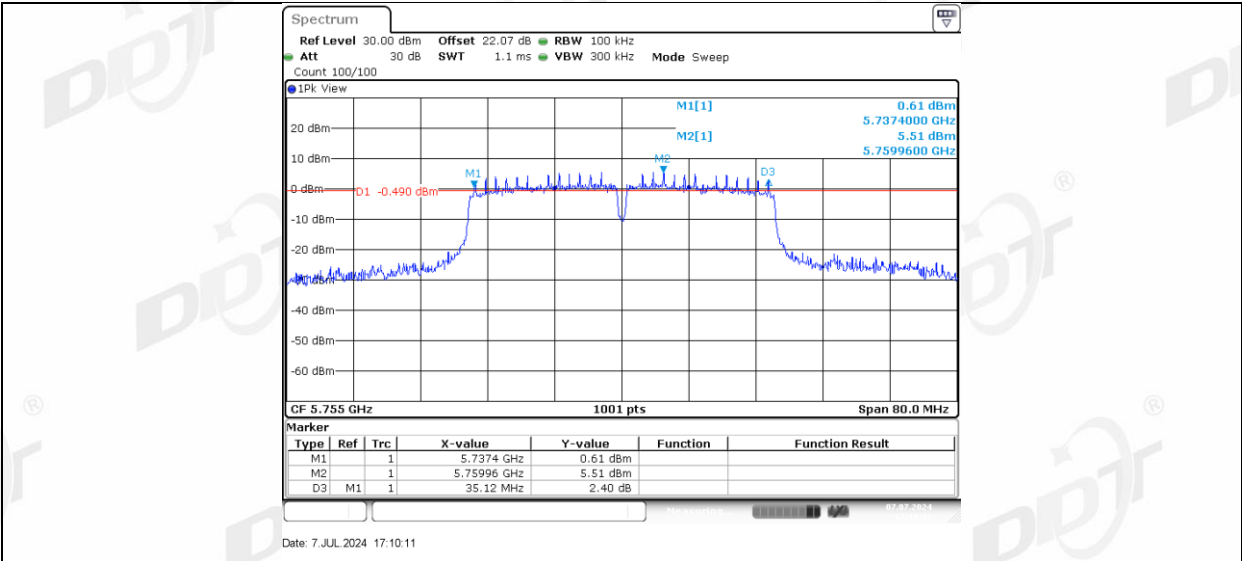
11N20MIMO_Ant1_5825



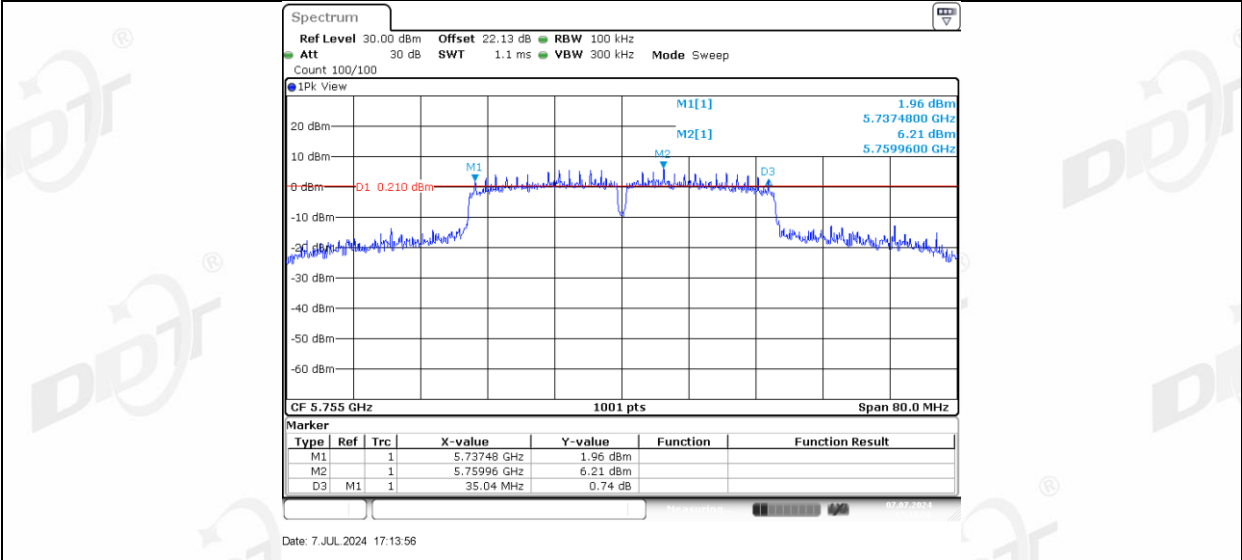
11N20MIMO_Ant2_5825



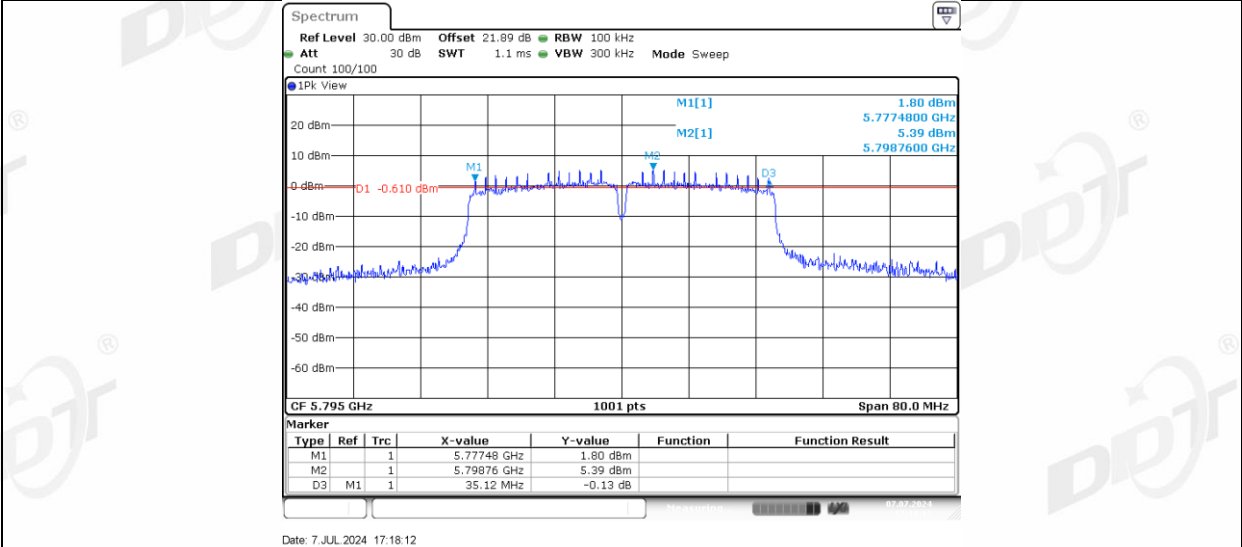
11N40MIMO_Ant1_5755



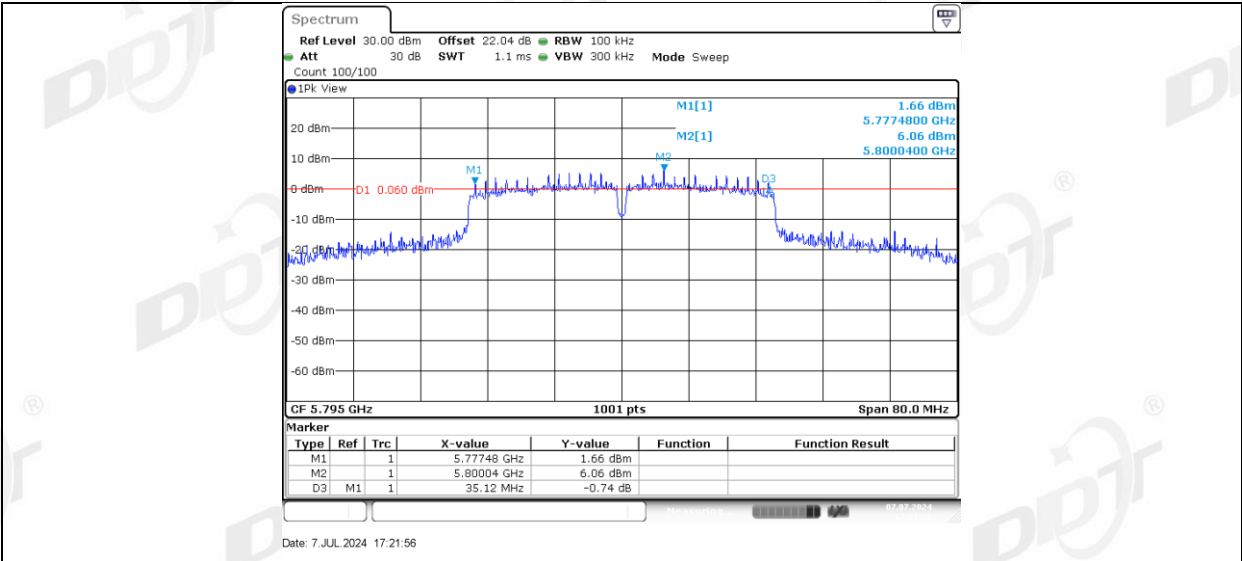
11N40MIMO_Ant2_5755



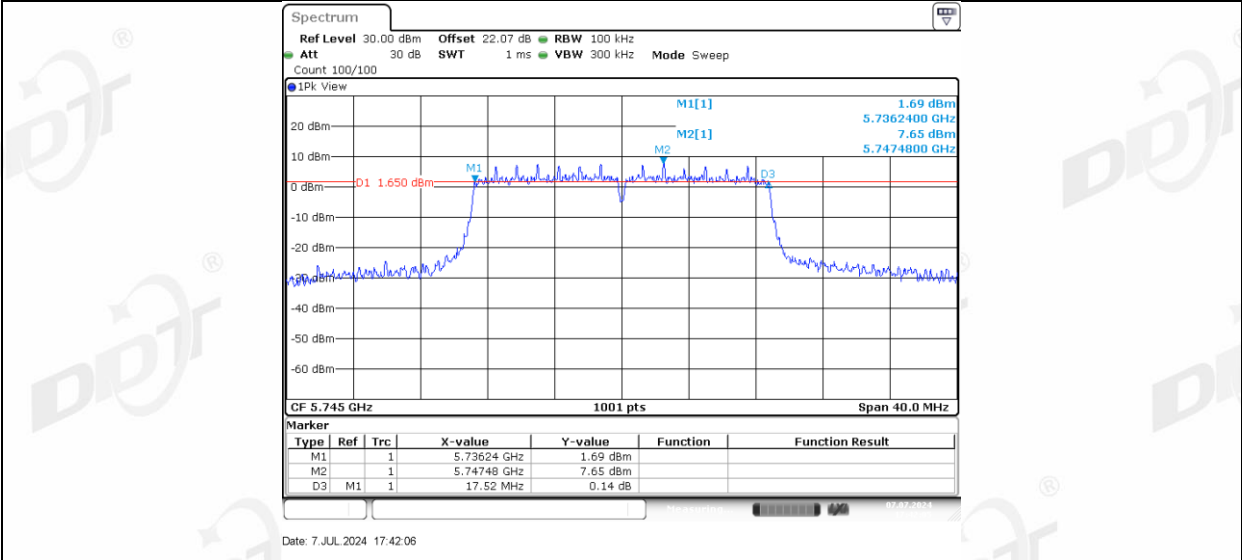
11N40MIMO_Ant1_5795



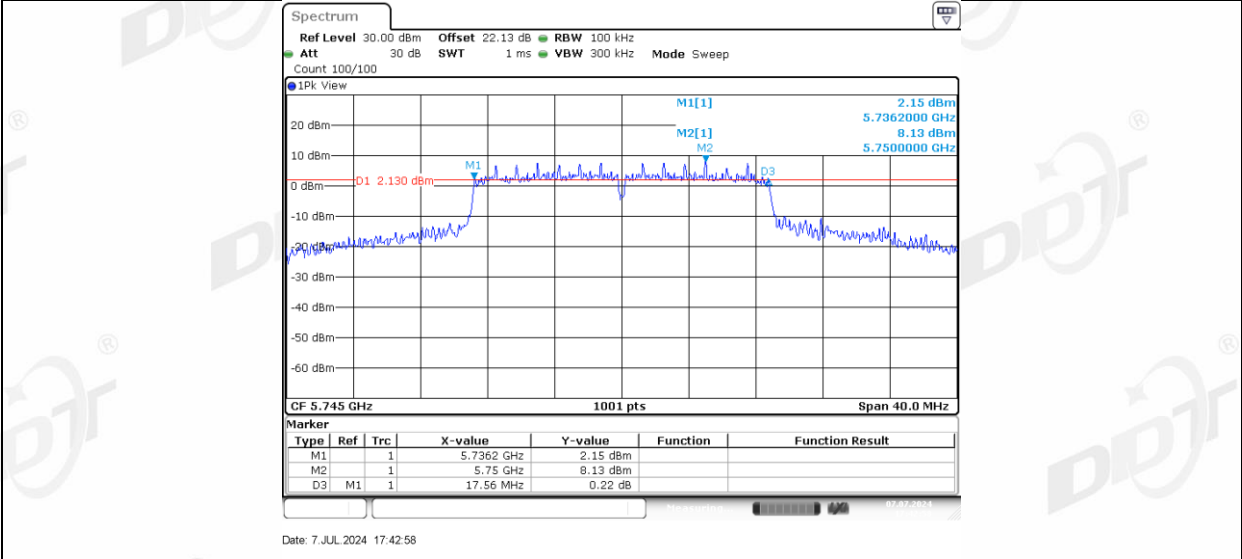
11N40MIMO_Ant2_5795



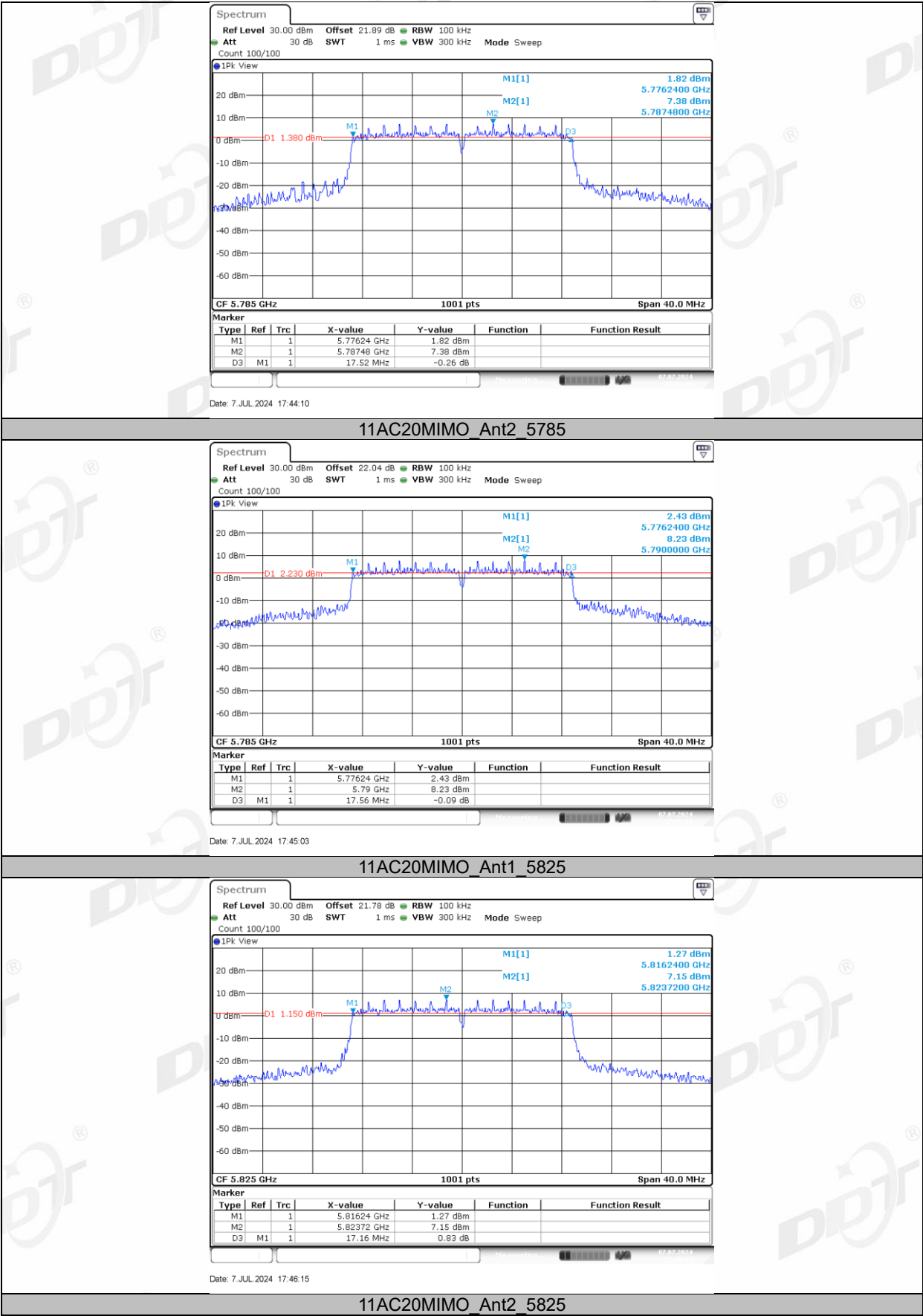
11AC20MIMO_Ant1_5745

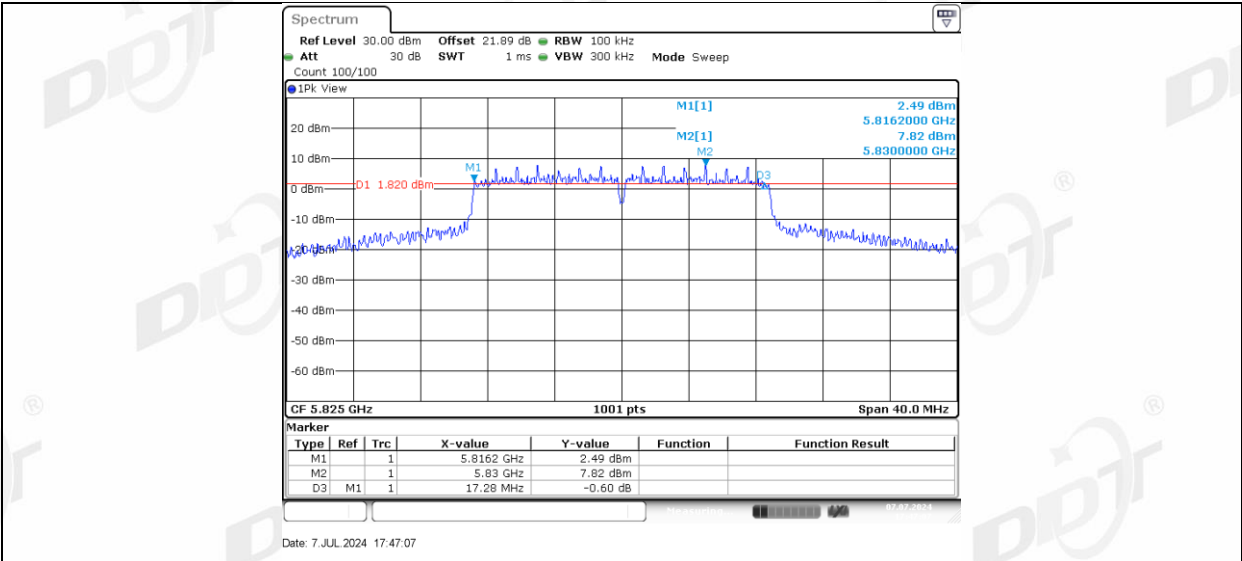


11AC20MIMO_Ant2_5745

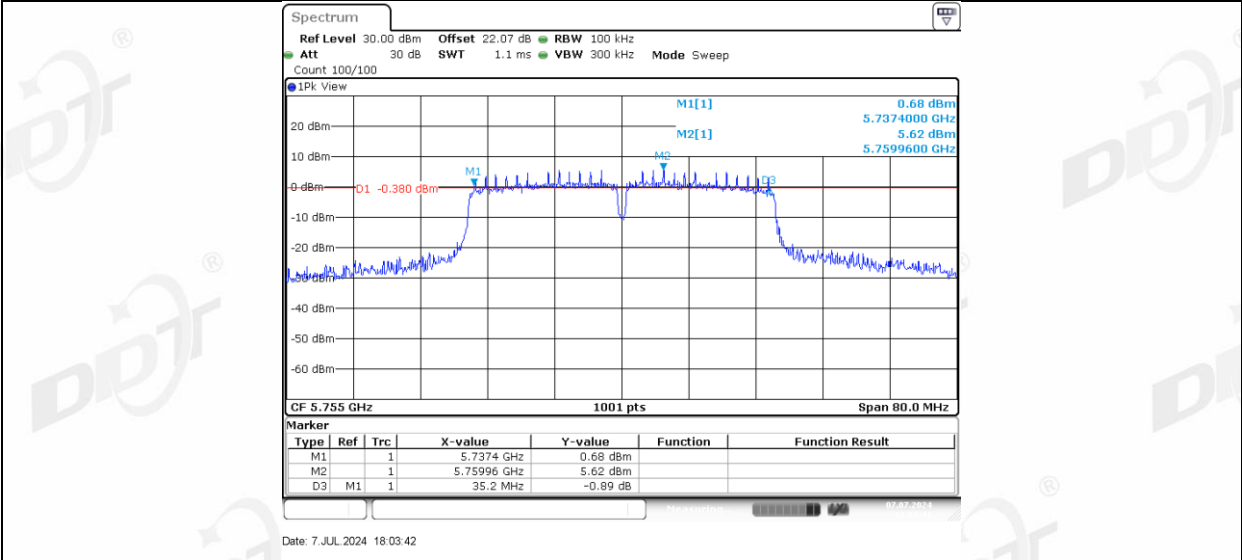


11AC20MIMO_Ant1_5785

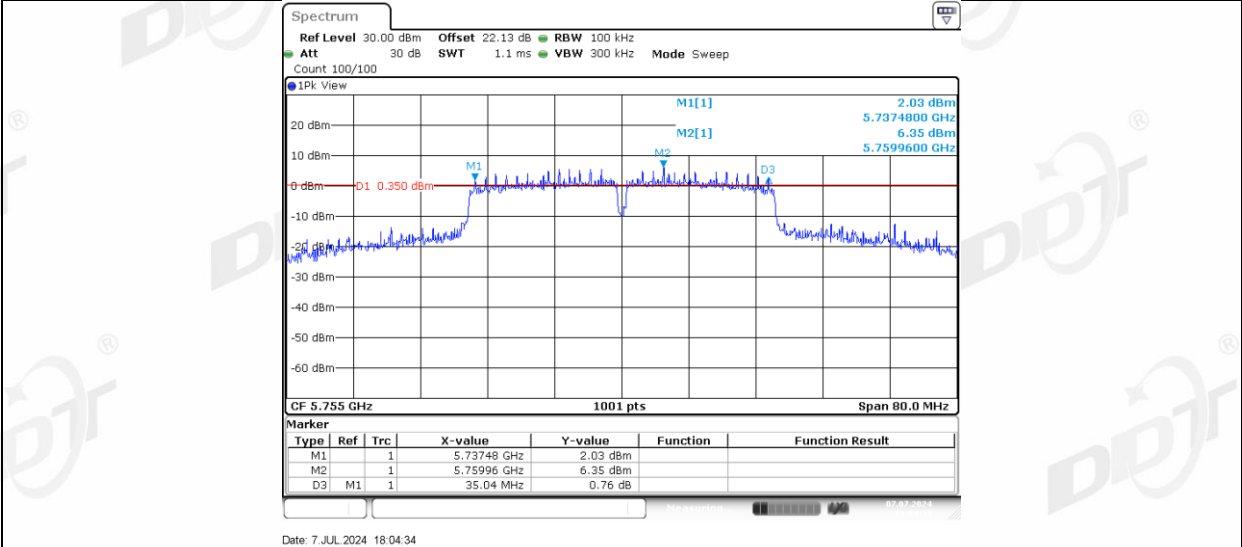




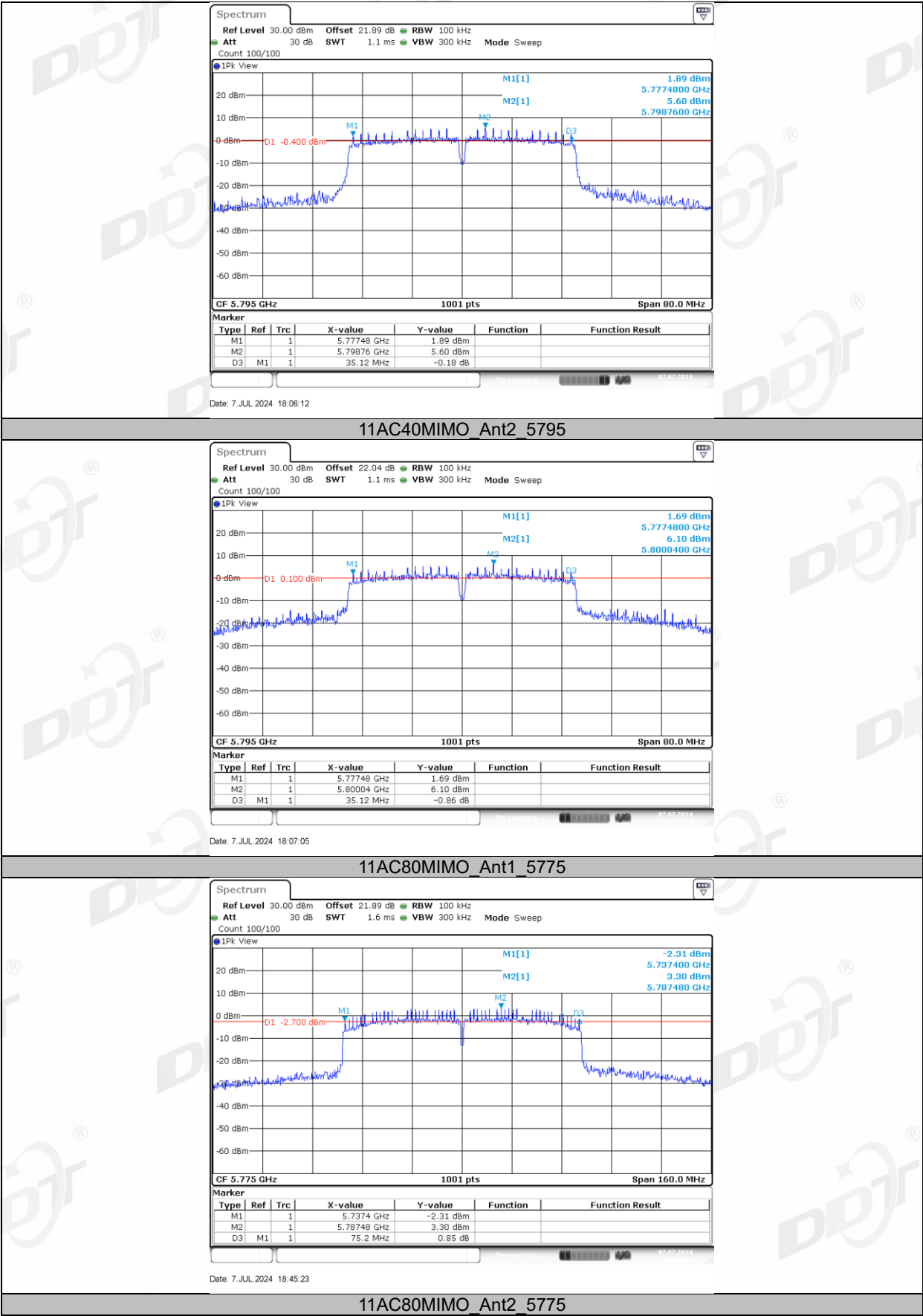
11AC40MIMO_Ant1_5755

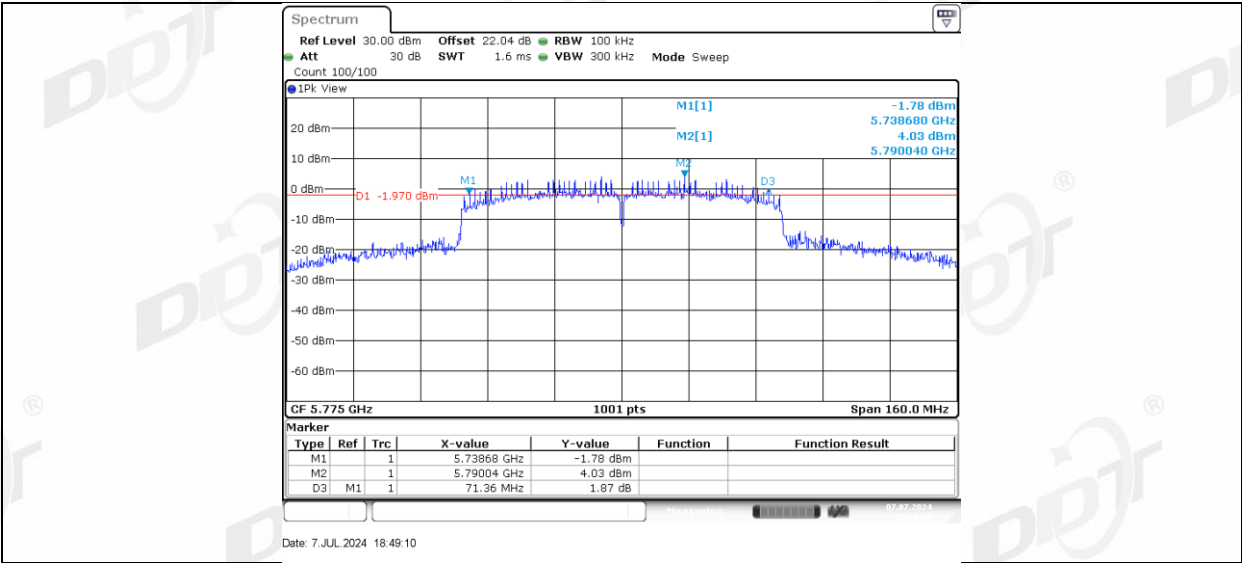


11AC40MIMO_Ant2_5755



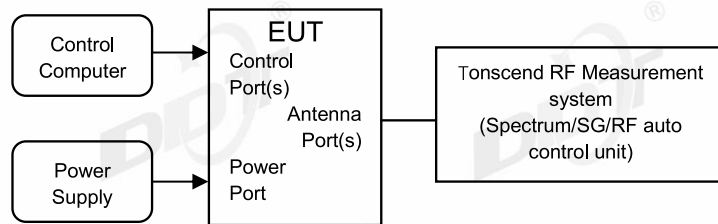
11AC40MIMO_Ant1_5795





6. 99% Bandwidth

6.1. Block diagram of test setup



6.2. Limits

Just for Report.

6.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Trace	Max hold

Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.

6.4. Test result

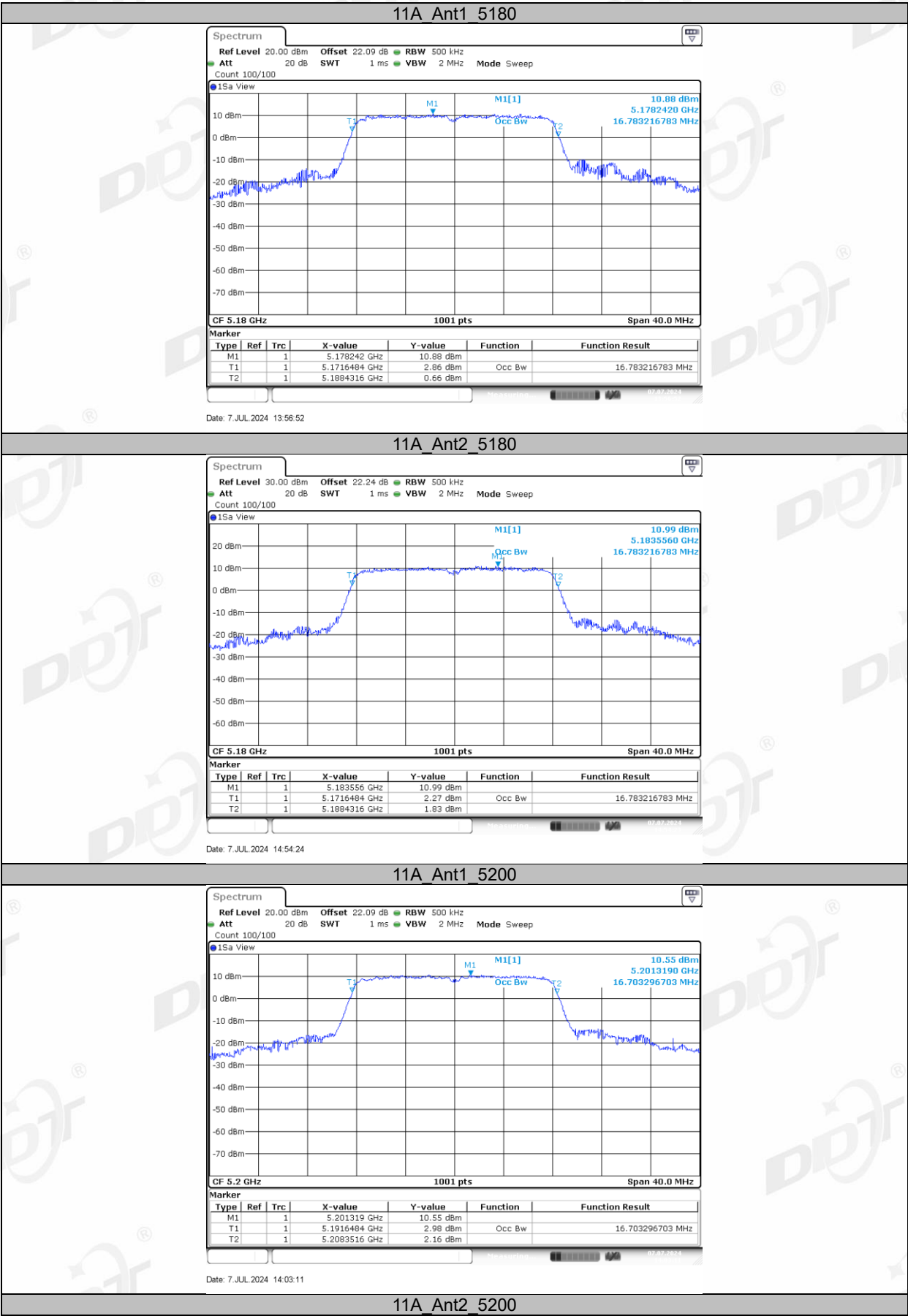
Test Engineer:	Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	26.1℃,38.6%RH	Test Date:	2024.07.07-2024.07.30
Test Power Supply:	DC 12V	Sample Number:	S24062520-003

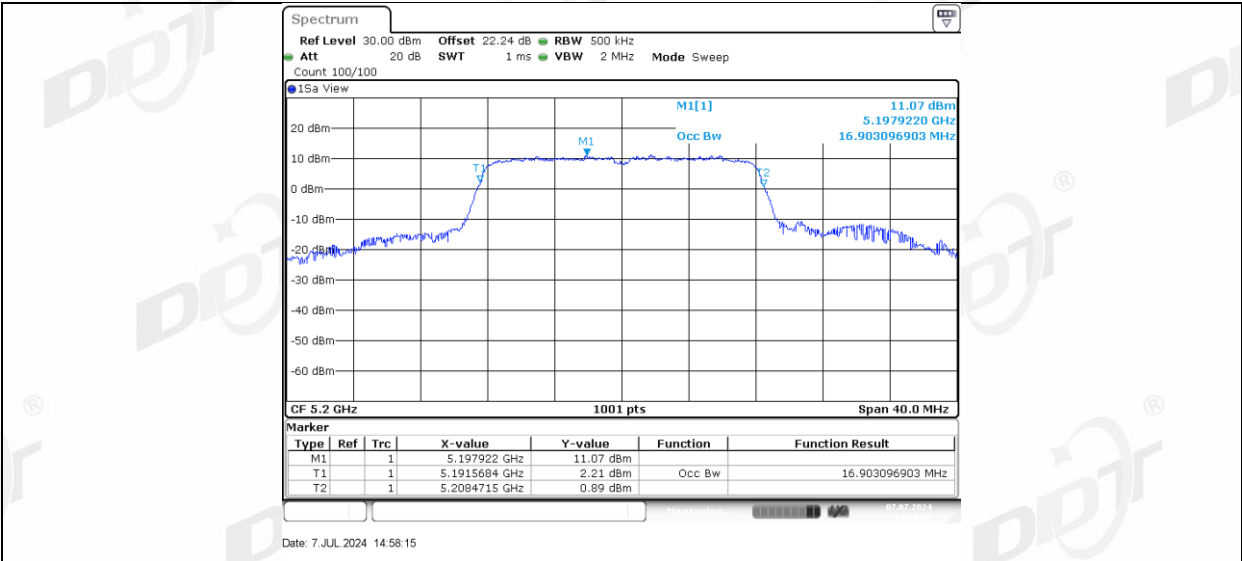
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.783	5171.6484	5188.4316	---	---
	Ant2	5180	16.783	5171.6484	5188.4316	---	---
	Ant1	5200	16.703	5191.6484	5208.3516	---	---
	Ant2	5200	16.903	5191.5684	5208.4715	---	---
	Ant1	5240	16.743	5231.6484	5248.3916	---	---
	Ant2	5240	17.183	5231.5684	5248.7512	---	---
	Ant1	5260	16.663	5251.6484	5268.3117	---	---
	Ant2	5260	16.943	5251.6084	5268.5514	---	---
	Ant1	5280	16.823	5271.6084	5288.4316	---	---
	Ant2	5280	17.143	5271.5285	5288.6713	---	---
	Ant1	5320	17.023	5311.5285	5328.5514	---	---
	Ant2	5320	17.263	5311.4486	5328.7113	---	---
	Ant1	5500	22.178	5490.3297	5512.5075	---	---
	Ant2	5500	17.383	5491.3287	5508.7113	---	---
	Ant1	5580	20.42	5570.2498	5590.6693	---	---
	Ant2	5580	18.462	5571.2088	5589.6703	---	---
	Ant1	5700	17.902	5691.2887	5709.1908	---	---
	Ant2	5700	24.575	5688.4915	5713.0669	---	---
	Ant1	5720	17.223	5711.3287	5728.5514	---	---
	Ant2	5720	25.015	5707.9321	5732.9471	---	---
	Ant1	5720 UNII-2C	13.671	5711.3287	5725	---	---
	Ant2	5720 UNII-2C	17.068	5707.9321	5725	---	---
	Ant1	5720 UNII-3	3.551	5725	5728.5514	---	---
	Ant2	5720 UNII-3	7.947	5725	5732.9471	---	---
	Ant1	5745	17.143	5736.4885	5753.6314	---	---
	Ant2	5745	26.014	5732.4525	5758.4665	---	---
	Ant1	5785	17.982	5776.3686	5794.3506	---	---
	Ant2	5785	27.133	5771.8931	5799.0260	---	---
	Ant1	5825	17.822	5816.2088	5834.0310	---	---
	Ant2	5825	26.334	5812.1329	5838.4665	---	---
11N20MIM O	Ant1	5180	17.742	5171.1289	5188.8711	---	---
	Ant2	5180	17.782	5171.1289	5188.9111	---	---
	Ant1	5200	17.702	5191.1289	5208.8312	---	---
	Ant2	5200	17.662	5191.1688	5208.8312	---	---
	Ant1	5240	17.742	5231.1289	5248.8711	---	---
	Ant2	5240	17.742	5231.1688	5248.9111	---	---
	Ant1	5260	17.702	5251.1289	5268.8312	---	---
	Ant2	5260	17.662	5251.1688	5268.8312	---	---
	Ant1	5280	17.742	5271.1289	5288.8711	---	---
	Ant2	5280	17.702	5271.1688	5288.8711	---	---
	Ant1	5320	17.902	5311.0889	5328.9910	---	---
	Ant2	5320	17.782	5311.1289	5328.9111	---	---
	Ant1	5500	19.9	5490.8492	5510.7493	---	---
	Ant2	5500	17.702	5491.1688	5508.8711	---	---
	Ant1	5580	18.462	5570.7293	5589.1908	---	---
	Ant2	5580	17.942	5571.0889	5589.0310	---	---
	Ant1	5700	18.102	5691.0090	5709.1109	---	---
	Ant2	5700	18.901	5690.9291	5709.8302	---	---
	Ant1	5720	18.102	5711.0090	5729.1109	---	---
	Ant2	5720	19.7	5710.6094	5730.3097	---	---
	Ant1	5720 UNII-2C	13.991	5711.0090	5725	---	---
	Ant2	5720 UNII-2C	14.391	5710.6094	5725	---	---
	Ant1	5720 UNII-3	4.111	5725	5729.1109	---	---
	Ant2	5720 UNII-3	5.31	5725	5730.3097	---	---
	Ant1	5745	17.862	5736.0490	5753.9111	---	---

	Ant2	5745	21.059	5734.8901	5755.9491	---	---
	Ant1	5785	17.822	5776.1289	5793.9510	---	---
	Ant2	5785	22.977	5774.4505	5797.4276	---	---
	Ant1	5825	18.062	5816.0090	5834.0709	---	---
	Ant2	5825	22.258	5814.2108	5836.4685	---	---
11N40MIM O	Ant1	5190	36.284	5171.8581	5208.1419	---	---
	Ant2	5190	36.284	5171.9381	5208.2218	---	---
	Ant1	5230	36.364	5211.9381	5248.3017	---	---
	Ant2	5230	36.284	5211.9381	5248.2218	---	---
	Ant1	5270	36.523	5251.7782	5288.3017	---	---
	Ant2	5270	36.364	5251.7782	5288.1419	---	---
	Ant1	5310	36.444	5291.8581	5328.3017	---	---
	Ant2	5310	36.284	5291.9381	5328.2218	---	---
	Ant1	5510	37.722	5491.4585	5529.1808	---	---
	Ant2	5510	36.444	5491.8581	5528.3017	---	---
	Ant1	5550	37.323	5531.3786	5568.7013	---	---
	Ant2	5550	36.603	5531.6983	5568.3017	---	---
	Ant1	5670	36.683	5651.7782	5688.4615	---	---
	Ant2	5670	38.042	5651.4585	5689.5005	---	---
	Ant1	5710	36.683	5691.6184	5728.3017	---	---
	Ant2	5710	39.001	5691.3786	5730.3796	---	---
	Ant1	5710 UNII-2C	33.382	5691.6184	5725	---	---
	Ant2	5710 UNII-2C	33.621	5691.3786	5725	---	---
	Ant1	5710 UNII-3	3.302	5725	5728.3017	---	---
	Ant2	5710 UNII-3	5.38	5725	5730.3796	---	---
	Ant1	5755	36.923	5736.5385	5773.4615	---	---
	Ant2	5755	45.235	5734.6204	5779.8551	---	---
	Ant1	5795	36.523	5776.6983	5813.2218	---	---
	Ant2	5795	42.358	5774.3007	5816.6583	---	---
11AC20MI MO	Ant1	5180	17.662	5171.1688	5188.8312	---	---
	Ant2	5180	17.662	5171.1688	5188.8312	---	---
	Ant1	5200	17.662	5191.1688	5208.8312	---	---
	Ant2	5200	17.702	5191.1688	5208.8711	---	---
	Ant1	5240	17.742	5231.1688	5248.9111	---	---
	Ant2	5240	17.702	5231.1688	5248.8711	---	---
	Ant1	5260	17.942	5251.0490	5268.9910	---	---
	Ant2	5260	17.702	5251.1688	5268.8711	---	---
	Ant1	5280	17.742	5271.1289	5288.8711	---	---
	Ant2	5280	17.742	5271.1688	5288.9111	---	---
	Ant1	5320	17.782	5311.1289	5328.9111	---	---
	Ant2	5320	17.702	5311.1688	5328.8711	---	---
	Ant1	5500	20.34	5490.8092	5511.1489	---	---
	Ant2	5500	17.662	5491.1688	5508.8312	---	---
	Ant1	5580	18.422	5570.8092	5589.2308	---	---
	Ant2	5580	17.902	5571.0490	5588.9510	---	---
	Ant1	5700	17.942	5691.0490	5708.9910	---	---
	Ant2	5700	19.58	5690.7293	5710.3097	---	---
	Ant1	5720	17.862	5711.0490	5728.9111	---	---
	Ant2	5720	18.981	5710.7293	5729.7103	---	---
	Ant1	5720 UNII-2C	13.951	5711.0490	5725	---	---
	Ant2	5720 UNII-2C	14.271	5710.7293	5725	---	---
	Ant1	5720 UNII-3	3.911	5725	5728.9111	---	---
	Ant2	5720 UNII-3	4.71	5725	5729.7103	---	---
	Ant1	5745	17.782	5736.0889	5753.8711	---	---
	Ant2	5745	21.698	5735.1299	5756.8282	---	---
	Ant1	5785	17.982	5776.0490	5794.0310	---	---
	Ant2	5785	22.098	5774.8102	5796.9081	---	---
	Ant1	5825	17.902	5816.0490	5833.9510	---	---
	Ant2	5825	22.298	5814.2507	5836.5485	---	---
11AC40MI MO	Ant1	5190	36.284	5171.8581	5208.1419	---	---
	Ant2	5190	36.284	5171.9381	5208.2218	---	---
	Ant1	5230	36.843	5211.6983	5248.5415	---	---
	Ant2	5230	36.523	5211.8581	5248.3816	---	---
	Ant1	5270	36.523	5251.8581	5288.3816	---	---

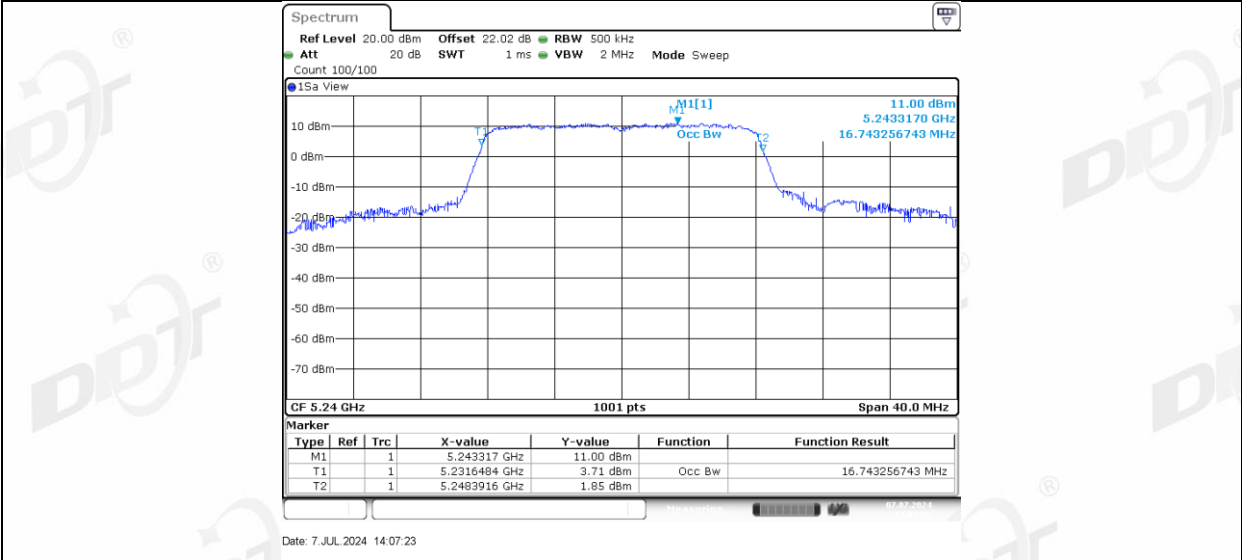
	Ant2	5270	36.603	5251.6983	5288.3017	---	---
	Ant1	5310	36.603	5291.7782	5328.3816	---	---
	Ant2	5310	36.683	5291.7782	5328.4615	---	---
	Ant1	5510	38.921	5491.4585	5530.3796	---	---
	Ant2	5510	36.603	5491.7782	5528.3816	---	---
	Ant1	5550	37.483	5531.2188	5568.7013	---	---
	Ant2	5550	36.843	5531.6983	5568.5415	---	---
	Ant1	5670	37.163	5651.3786	5688.5415	---	---
	Ant2	5670	38.202	5651.4585	5689.6603	---	---
	Ant1	5710	36.923	5691.4585	5728.3816	---	---
	Ant2	5710	39.161	5691.2188	5730.3796	---	---
	Ant1	5710 UNII-2C	33.542	5691.4585	5725	---	---
	Ant2	5710 UNII-2C	33.781	5691.2188	5725	---	---
	Ant1	5710 UNII-3	3.382	5725	5728.3816	---	---
	Ant2	5710 UNII-3	5.38	5725	5730.3796	---	---
	Ant1	5755	36.763	5736.6983	5773.4615	---	---
	Ant2	5755	44.116	5735.0200	5779.1359	---	---
	Ant1	5795	36.763	5776.6983	5813.4615	---	---
	Ant2	5795	42.358	5774.7802	5817.1379	---	---
11AC80MI MO	Ant1	5210	75.285	5172.4376	5247.7223	---	---
	Ant2	5210	75.285	5172.5974	5247.8821	---	---
	Ant1	5290	75.285	5252.4376	5327.7223	---	---
	Ant2	5290	75.445	5252.4376	5327.8821	---	---
	Ant1	5530	77.842	5491.9580	5569.8002	---	---
	Ant2	5530	75.924	5492.1179	5568.0420	---	---
	Ant1	5610	75.924	5571.9580	5647.8821	---	---
	Ant2	5610	76.084	5571.9580	5648.0420	---	---
	Ant1	5690	75.764	5652.1179	5727.8821	---	---
	Ant2	5690	78.002	5651.7982	5729.8002	---	---
	Ant1	5690 UNII-2C	72.882	5652.1179	5725	---	---
	Ant2	5690 UNII-2C	73.202	5651.7982	5725	---	---
	Ant1	5690 UNII-3	2.882	5725	5727.8821	---	---
	Ant2	5690 UNII-3	4.8	5725	5729.8002	---	---
	Ant1	5775	75.924	5737.1179	5813.0420	---	---
	Ant2	5775	88.072	5733.4416	5821.5135	---	---

6.5. Test graphs

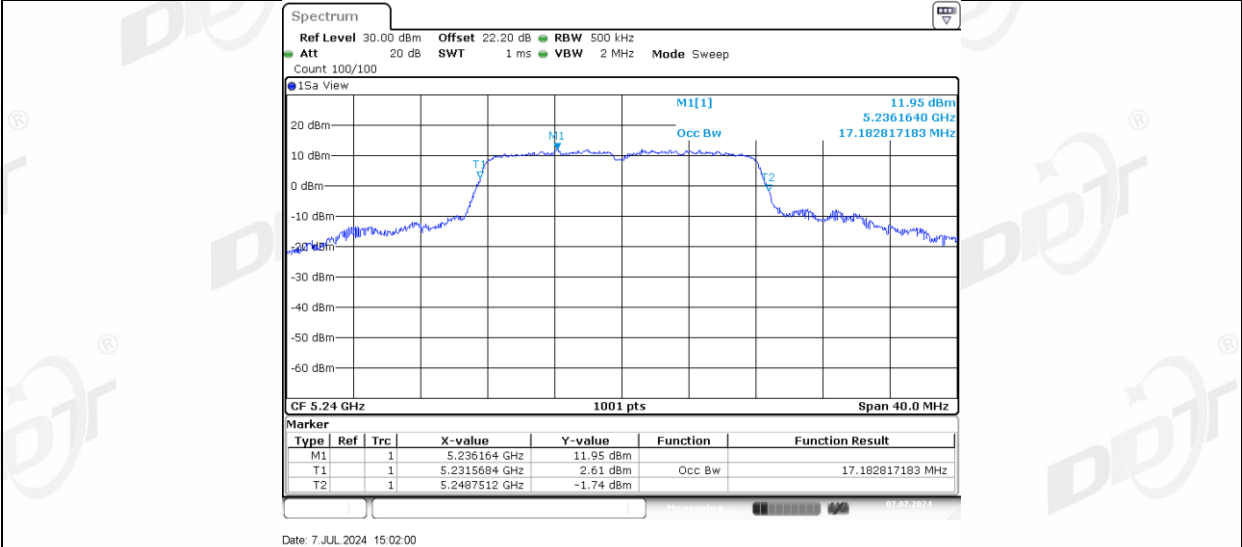




11A_Ant1_5240



11A_Ant2_5240



11A_Ant1_5260