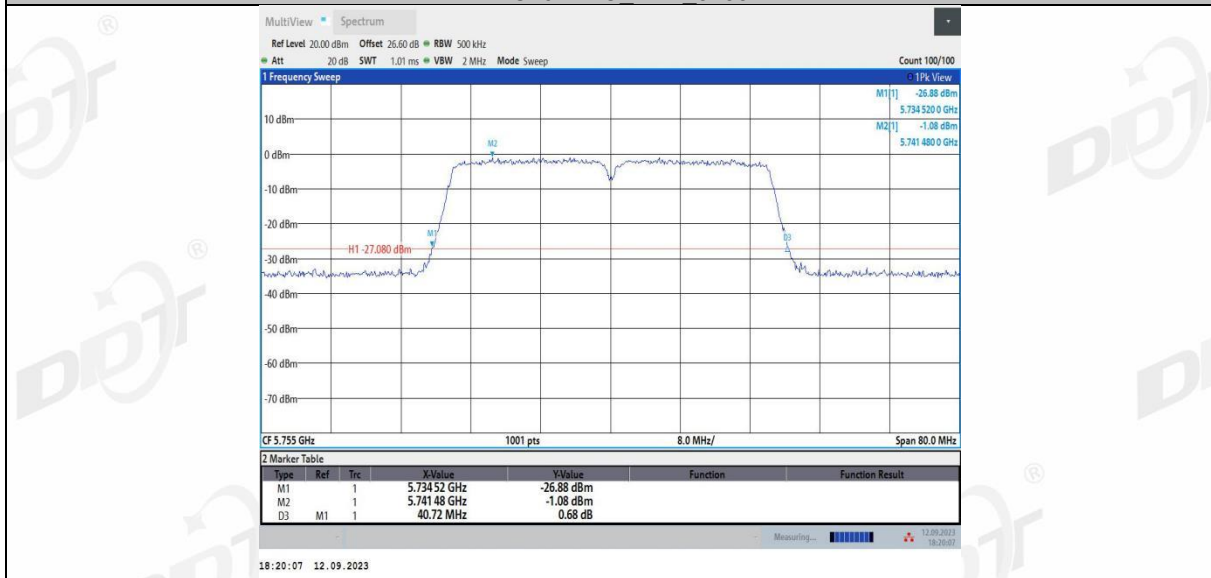
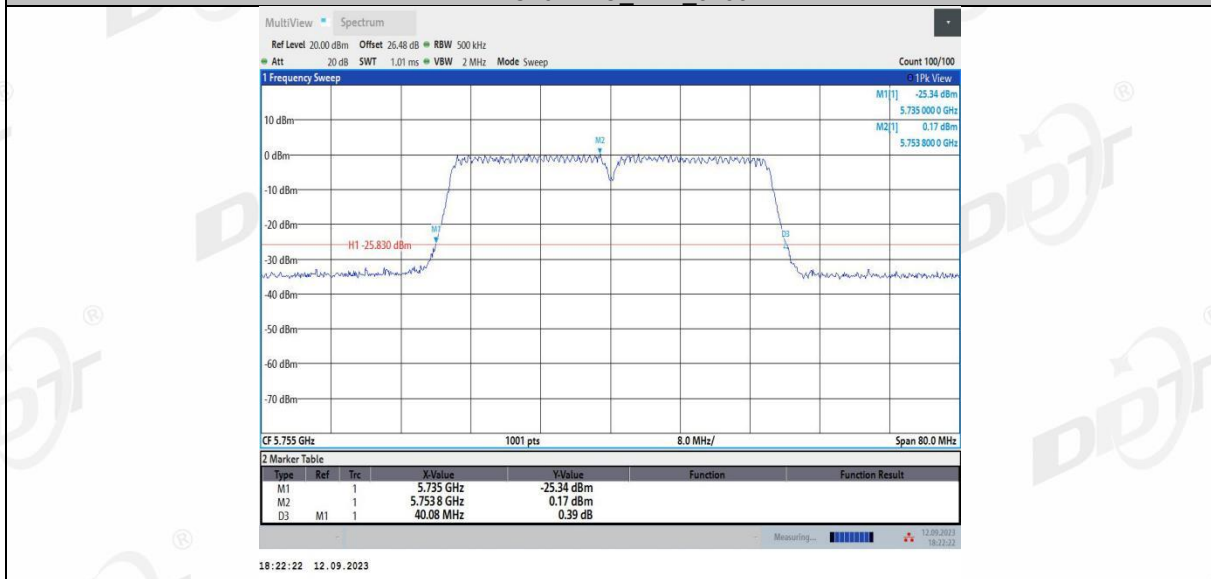




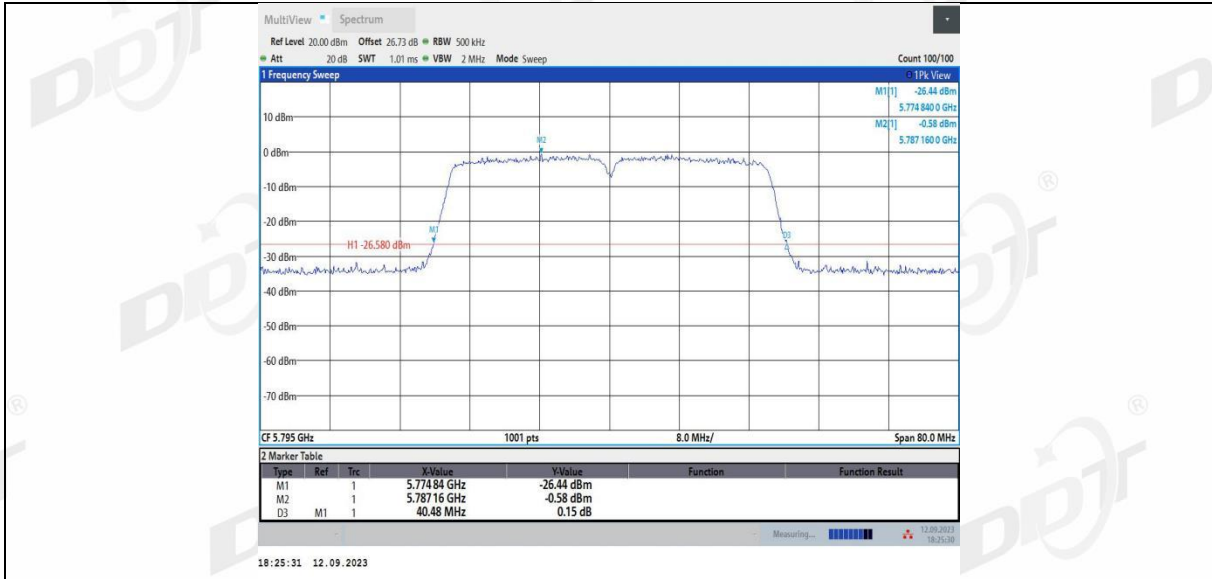
11AC40MIMO Ant1 5755



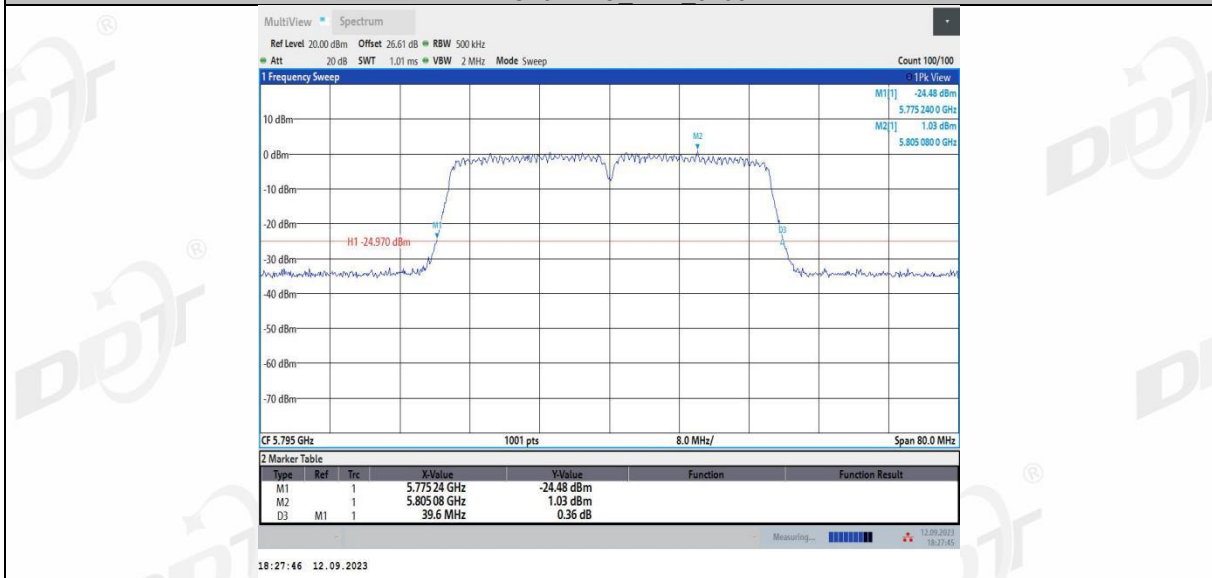
11AC40MIMO Ant2 5755



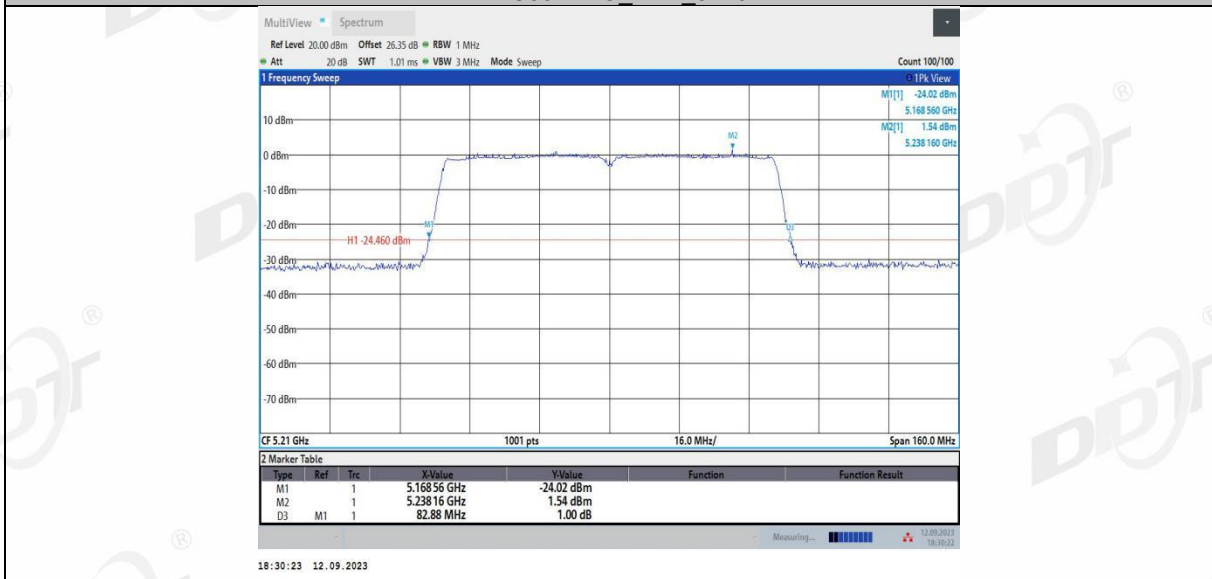
11AC40MIMO Ant1 5795



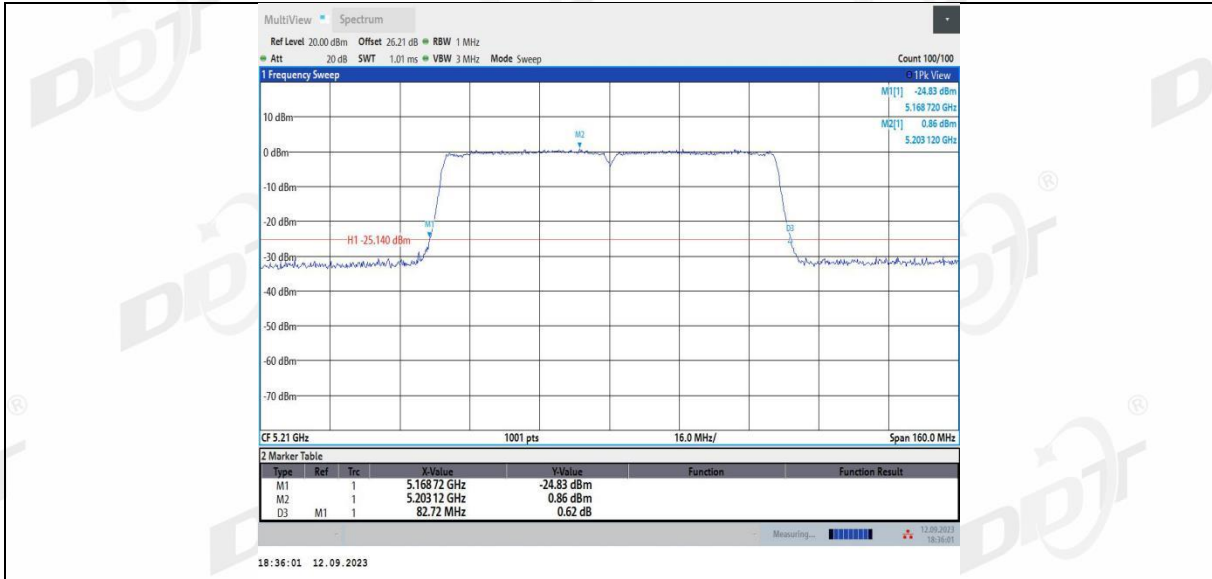
11AC40MIMO Ant2\_5795



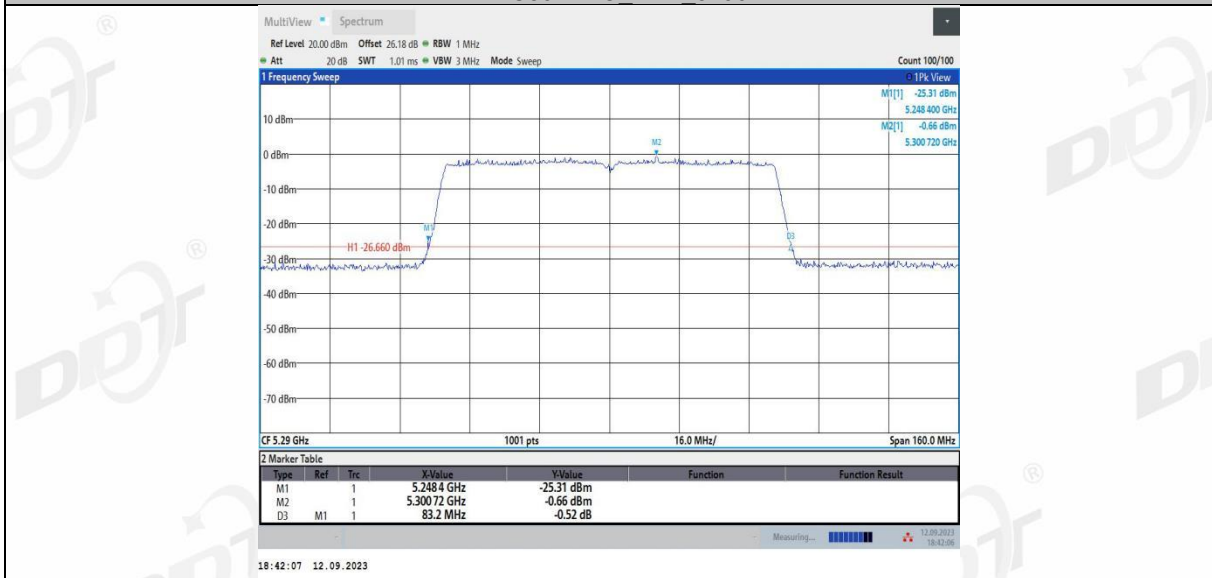
11AC80MIMO Ant1\_5210



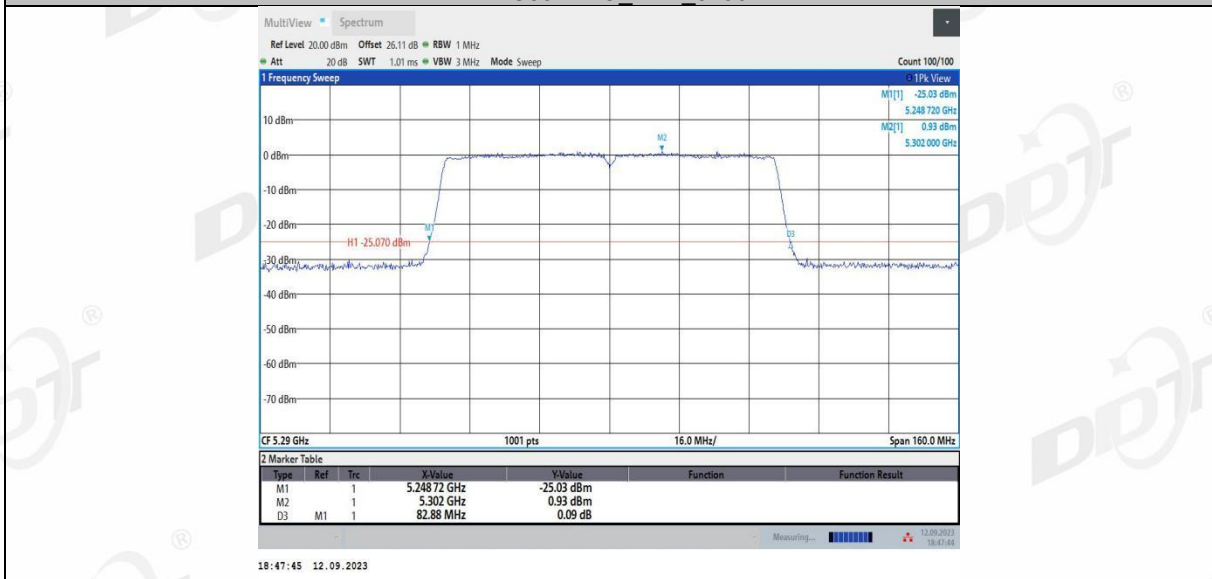
11AC80MIMO Ant2\_5210



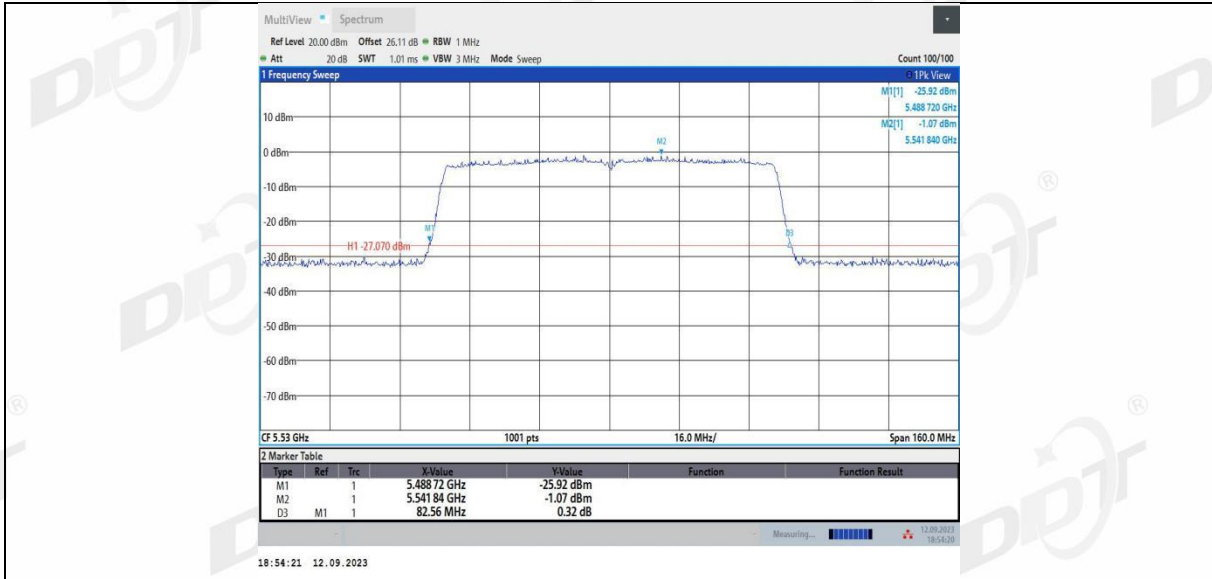
11AC80MIMO Ant1\_5290



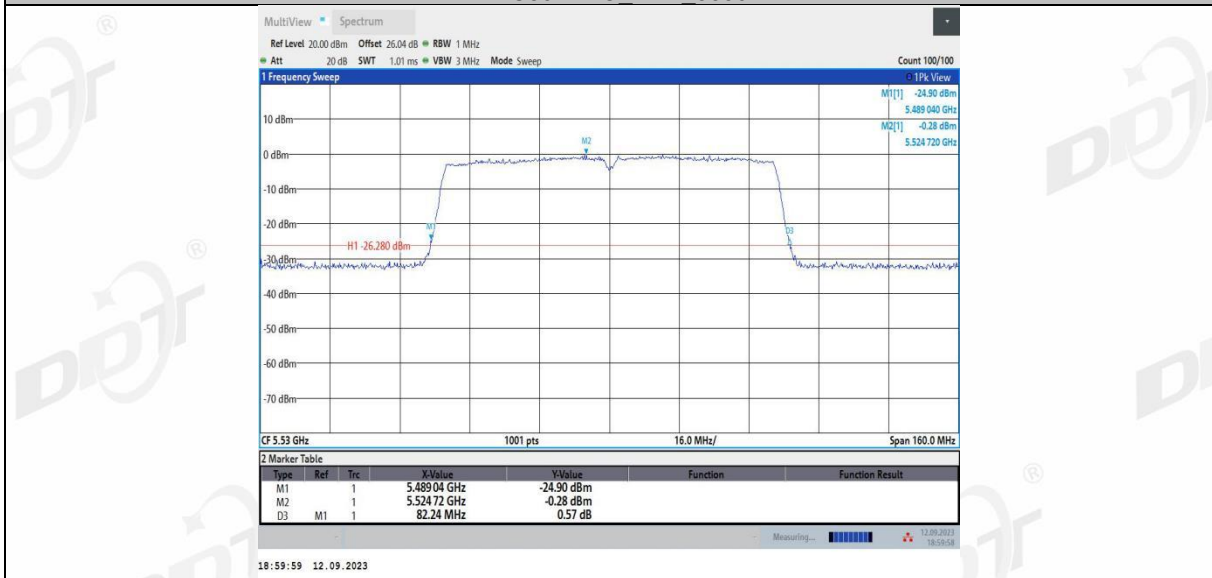
11AC80MIMO Ant2\_5290



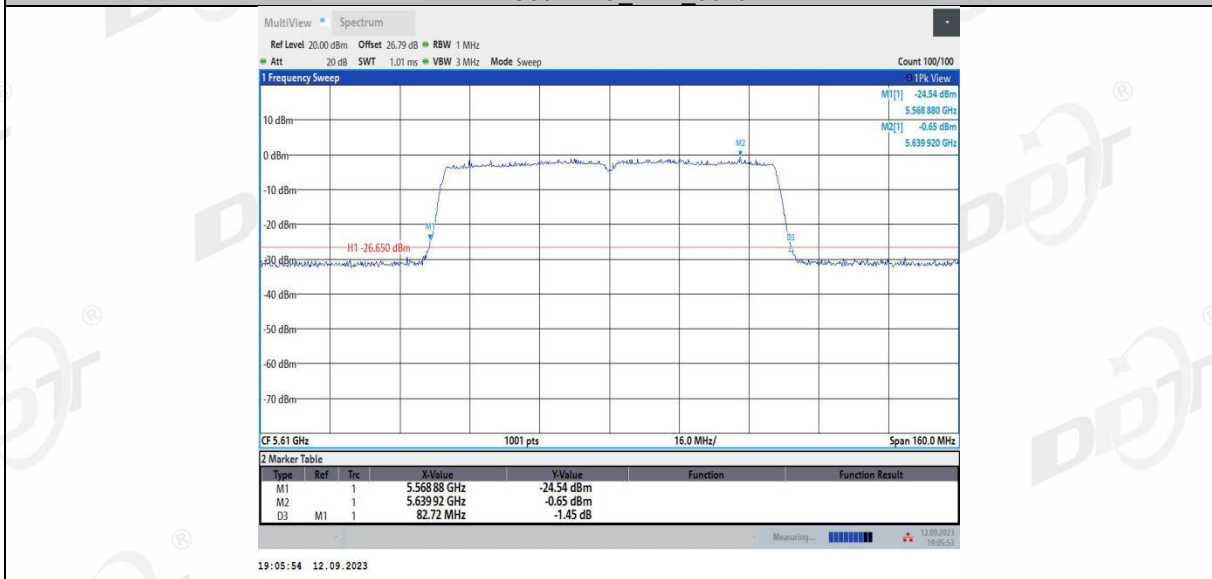
11AC80MIMO Ant1\_5530



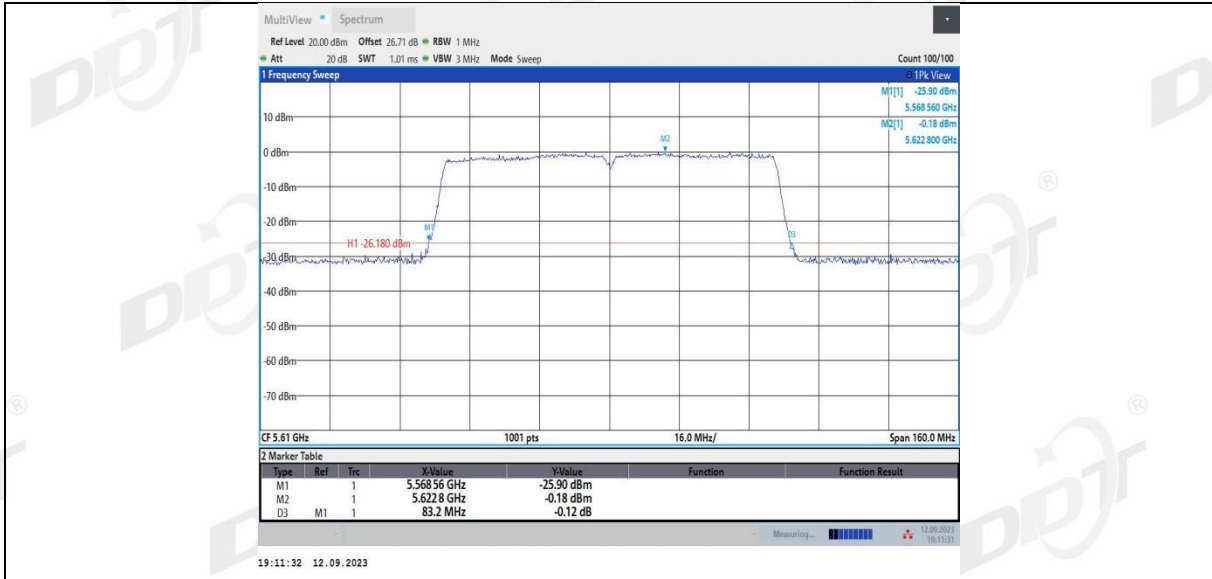
11AC80MIMO Ant2\_5530



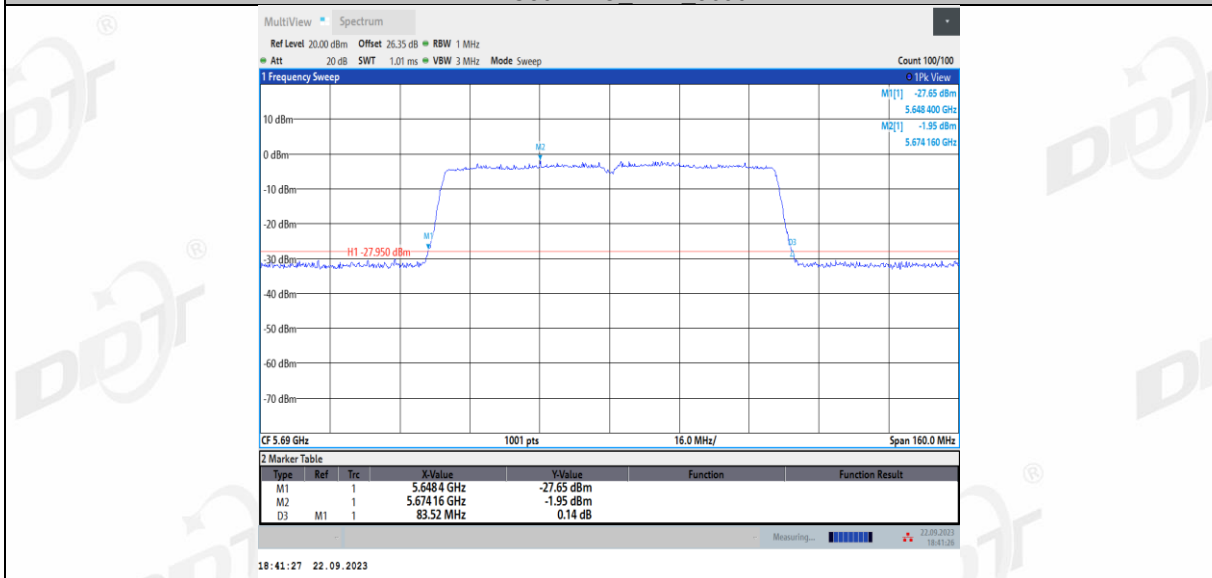
11AC80MIMO Ant1\_5610



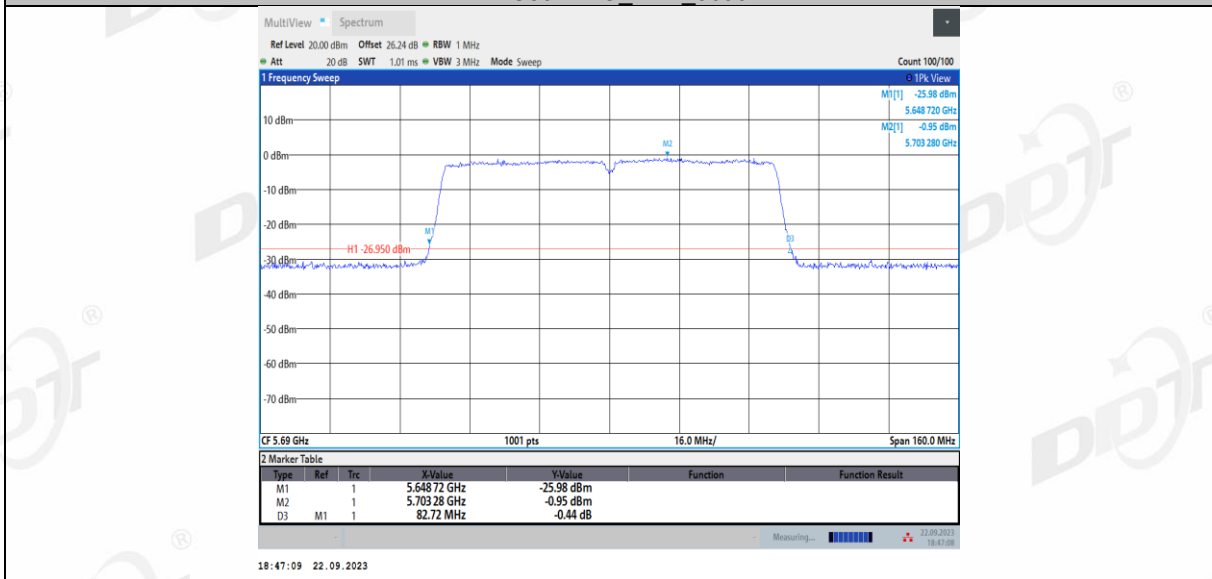
11AC80MIMO Ant2\_5610



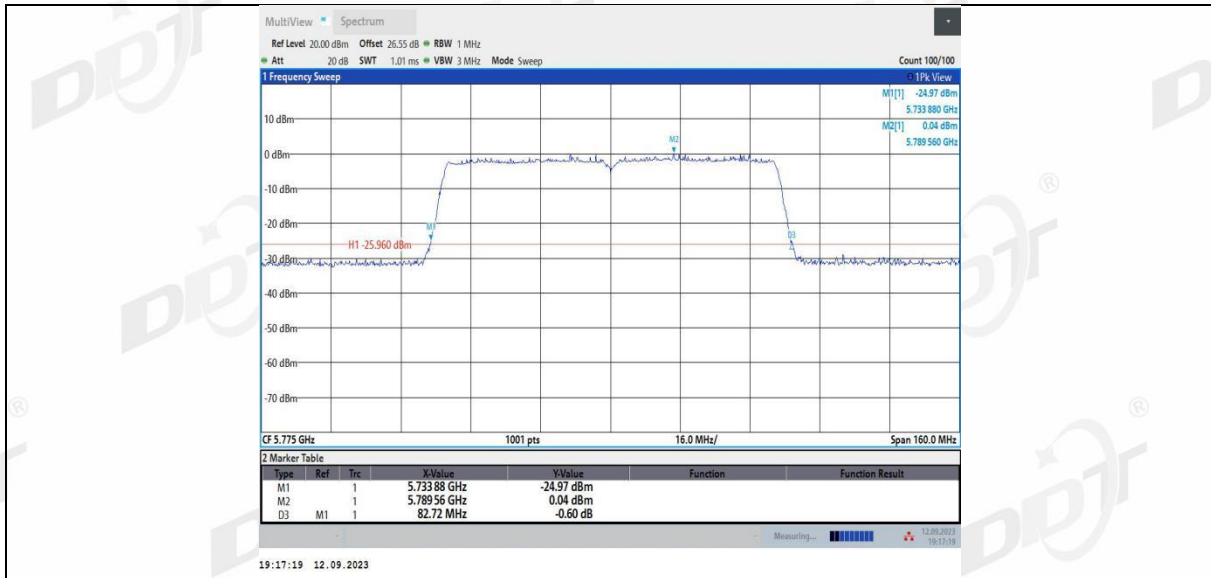
11AC80MIMO Ant1\_5690



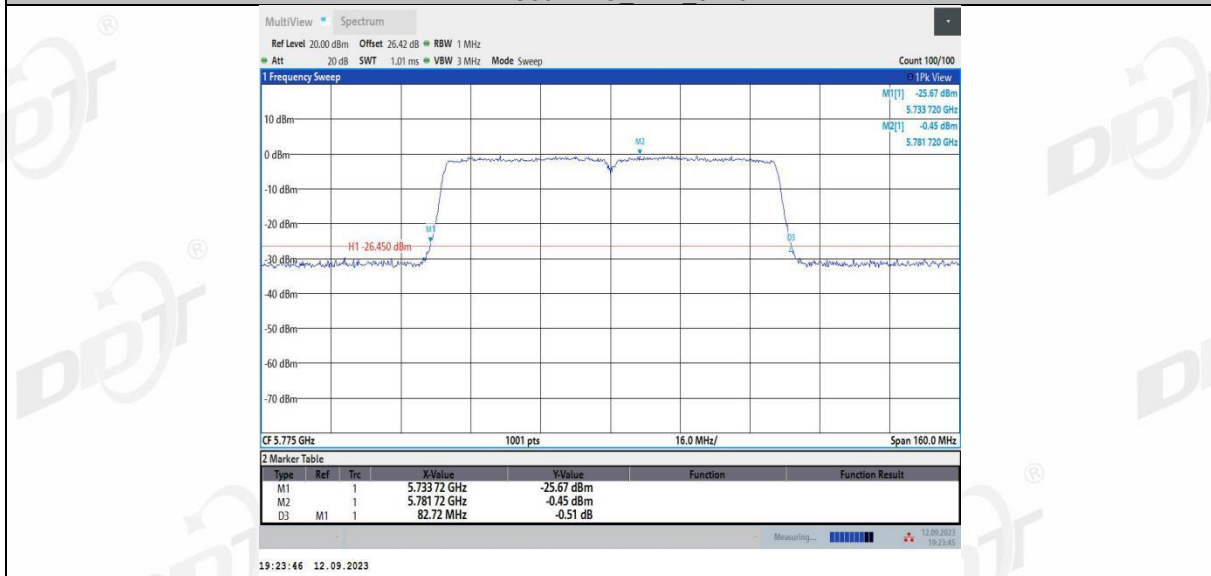
11AC80MIMO Ant2\_5690



11AC80MIMO Ant1\_5775

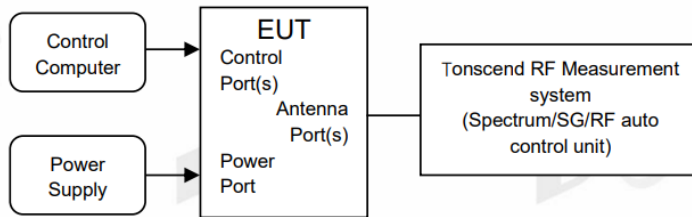


11AC80MIMO Ant2 5775



## 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.

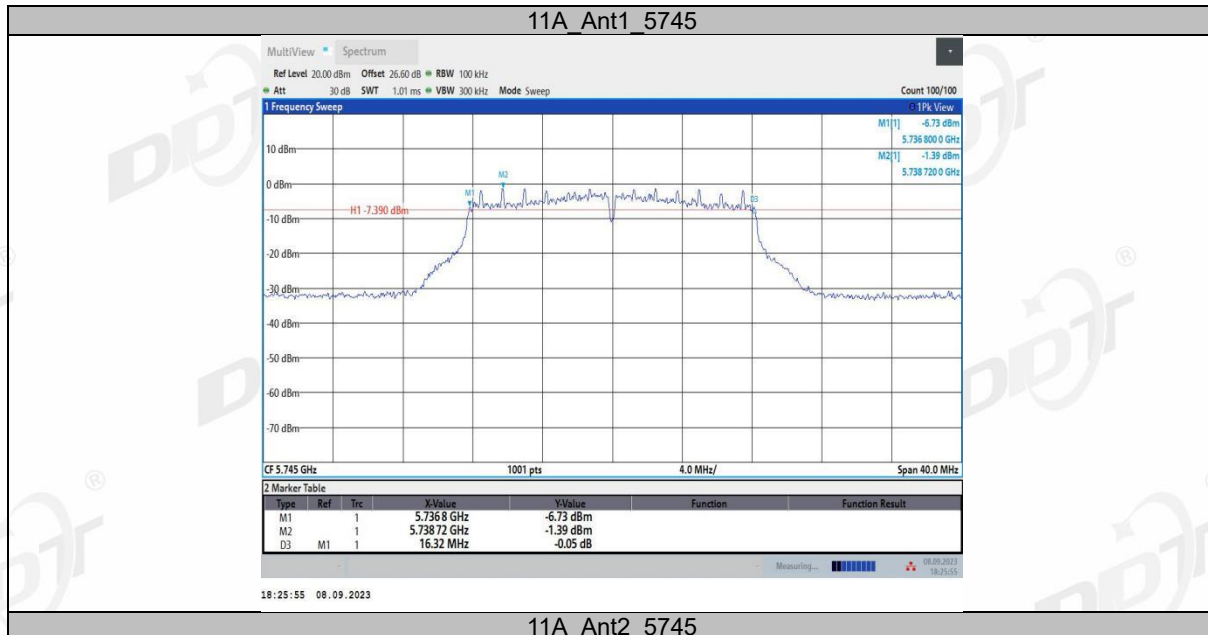
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

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.

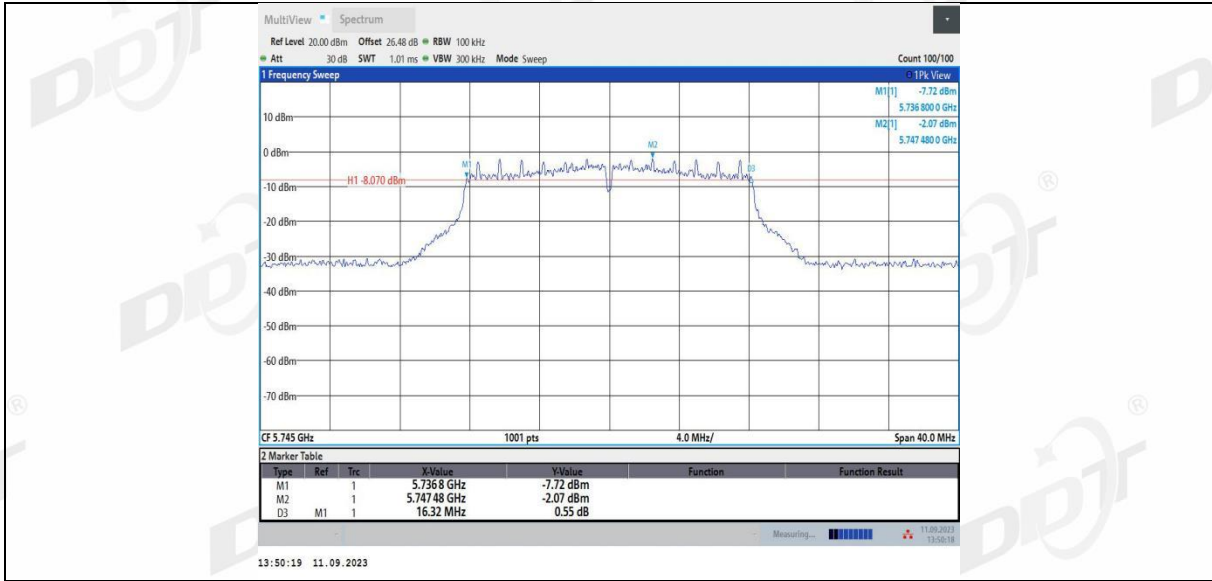
5.4. Test result

Test Mode	Antenna	Frequency[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	16.32	5776.80	5793.12	0.5	PASS
	Ant2	5785	16.32	5776.80	5793.12	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
11N20MIMO	Ant1	5745	17.56	5736.24	5753.80	0.5	PASS
	Ant2	5745	17.56	5736.24	5753.80	0.5	PASS
	Ant1	5785	17.56	5776.24	5793.80	0.5	PASS
	Ant2	5785	17.60	5776.24	5793.84	0.5	PASS
	Ant1	5825	17.56	5816.24	5833.80	0.5	PASS
	Ant2	5825	17.56	5816.24	5833.80	0.5	PASS
11N40MIMO	Ant1	5755	36.40	5736.84	5773.24	0.5	PASS
	Ant2	5755	36.40	5736.84	5773.24	0.5	PASS
	Ant1	5795	36.32	5776.92	5813.24	0.5	PASS
	Ant2	5795	36.40	5776.84	5813.24	0.5	PASS
11AC20MIMO	Ant1	5745	17.56	5736.20	5753.76	0.5	PASS
	Ant2	5745	17.60	5736.20	5753.80	0.5	PASS
	Ant1	5785	17.56	5776.24	5793.80	0.5	PASS
	Ant2	5785	17.60	5776.20	5793.80	0.5	PASS
	Ant1	5825	17.56	5816.24	5833.80	0.5	PASS
	Ant2	5825	17.60	5816.20	5833.80	0.5	PASS
11AC40MIMO	Ant1	5755	36.40	5736.84	5773.24	0.5	PASS
	Ant2	5755	36.40	5736.84	5773.24	0.5	PASS
	Ant1	5795	36.32	5776.92	5813.24	0.5	PASS
	Ant2	5795	36.40	5776.84	5813.24	0.5	PASS
11AC80MIMO	Ant1	5775	76.32	5736.92	5813.24	0.5	PASS
	Ant2	5775	76.32	5736.92	5813.24	0.5	PASS

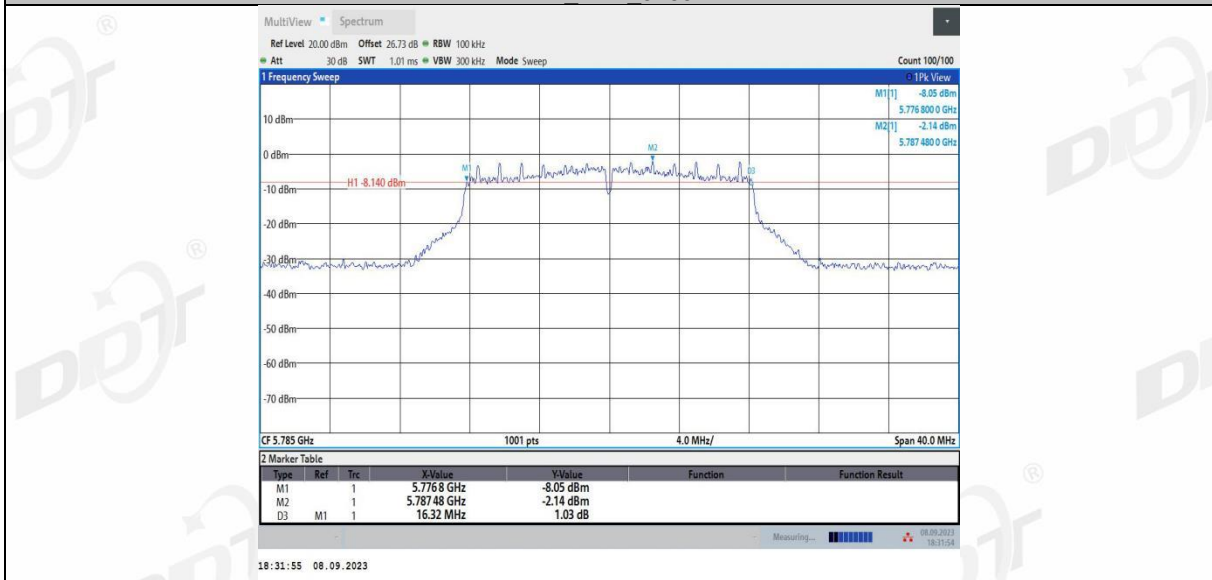
5.5. Test graphs



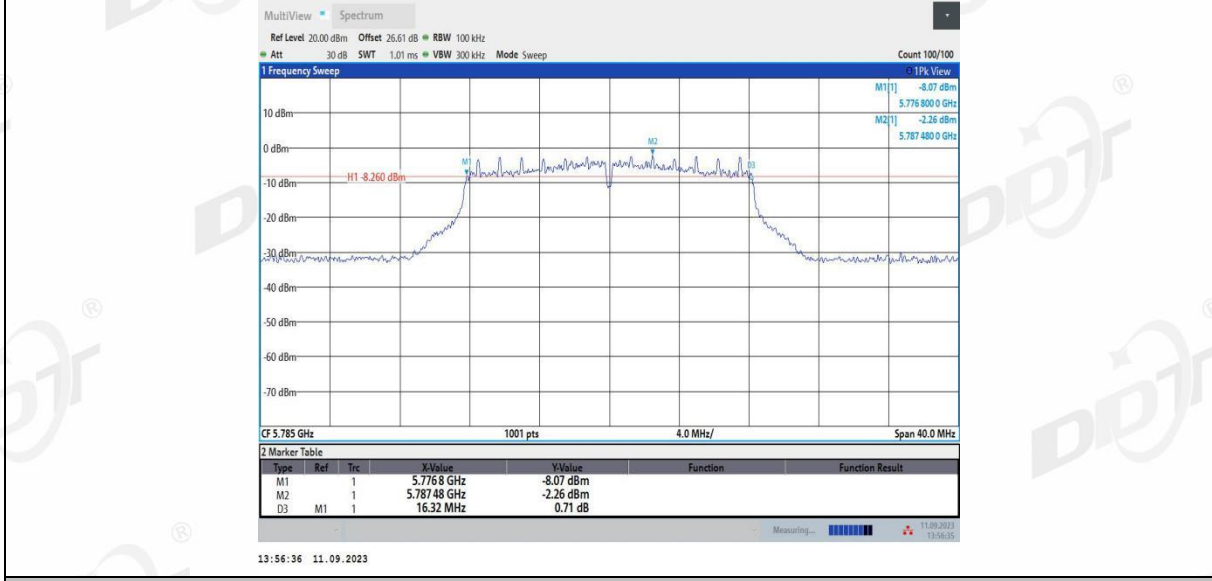




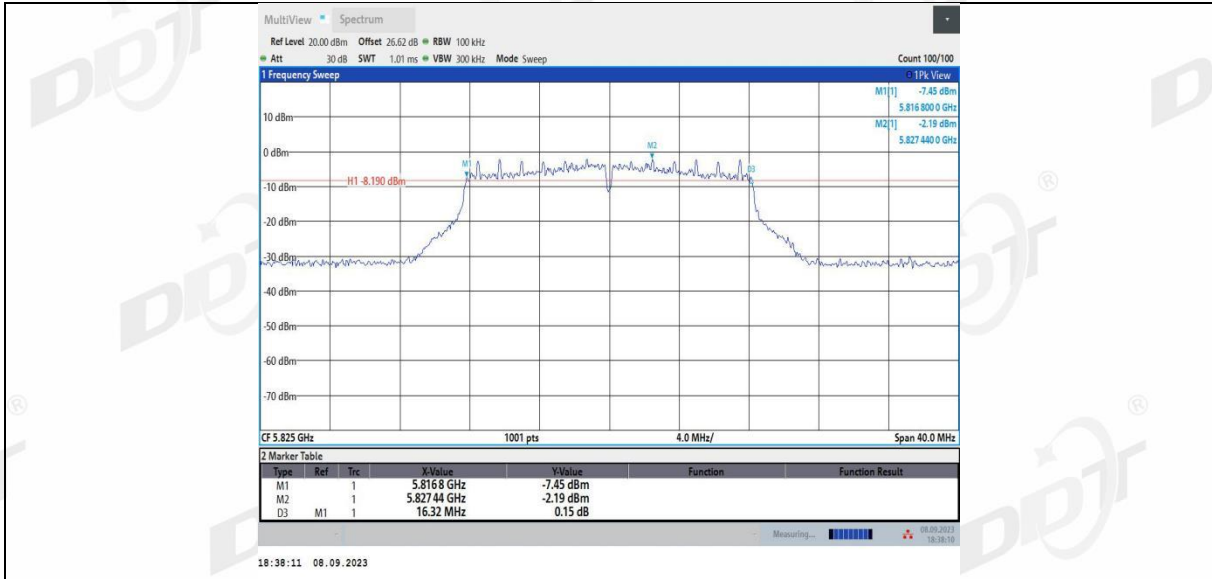
11A Ant1 5785



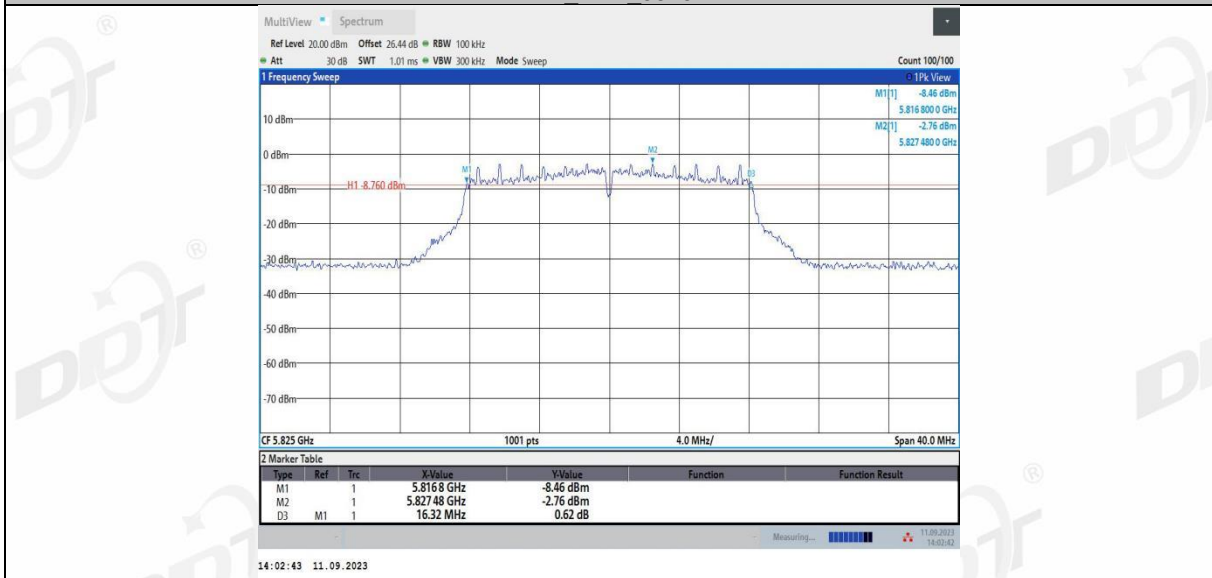
11A Ant2 5785



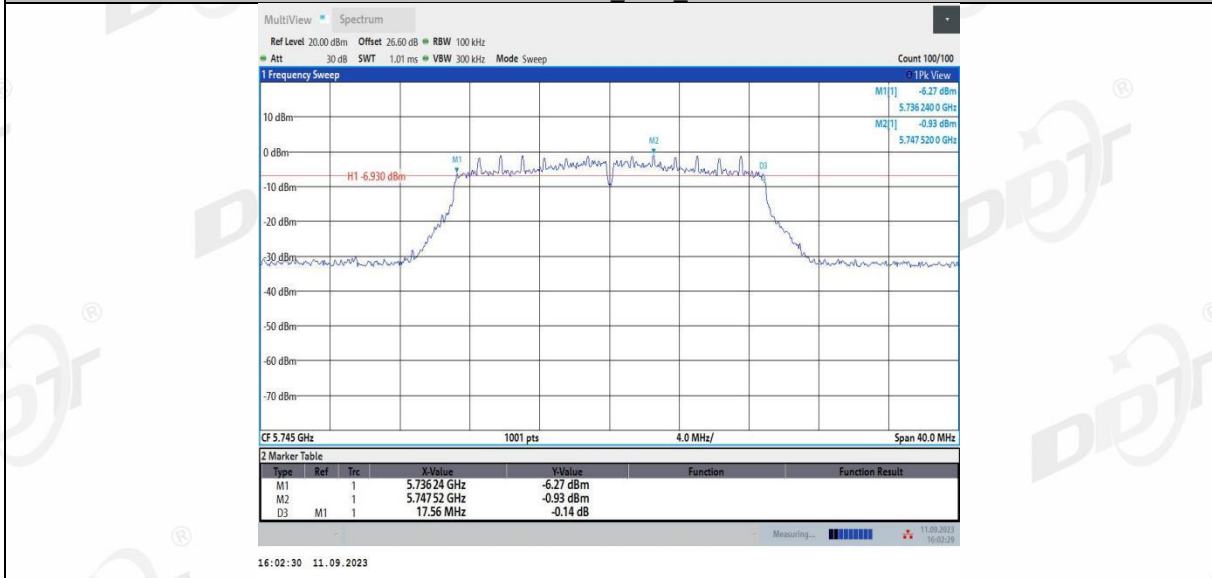
11A Ant1 5825



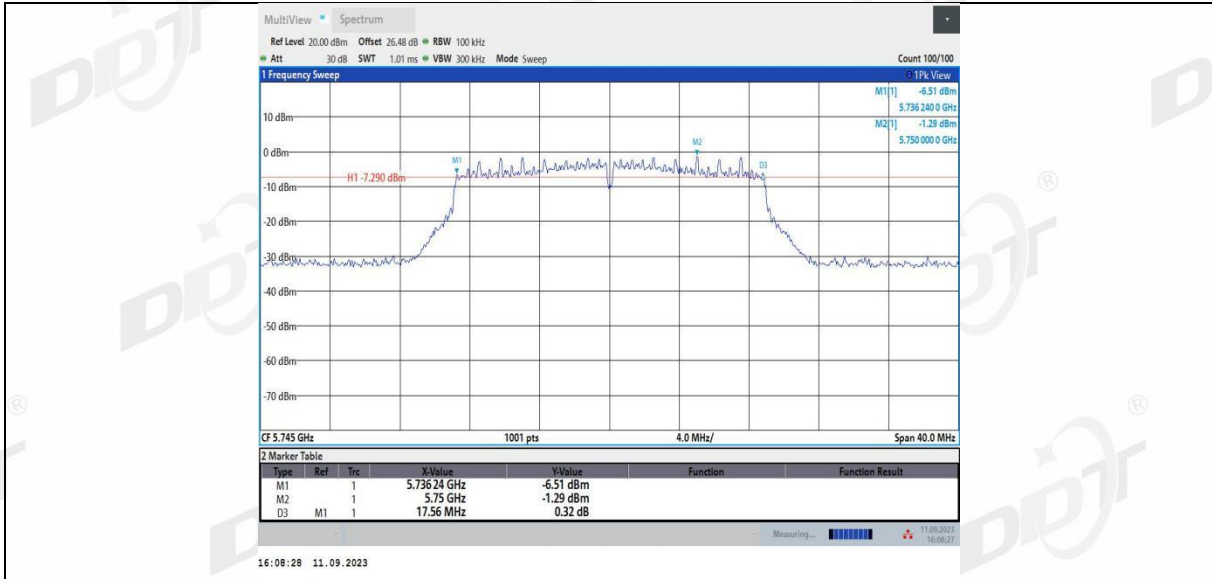
11A Ant2 5825



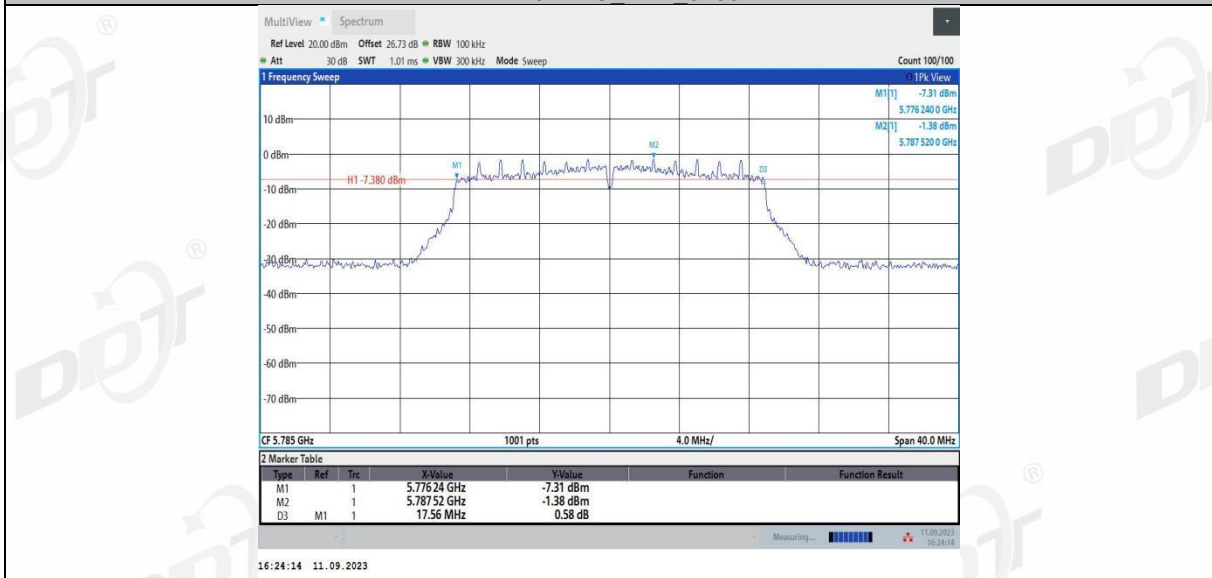
11N20MIMO Ant1 5745



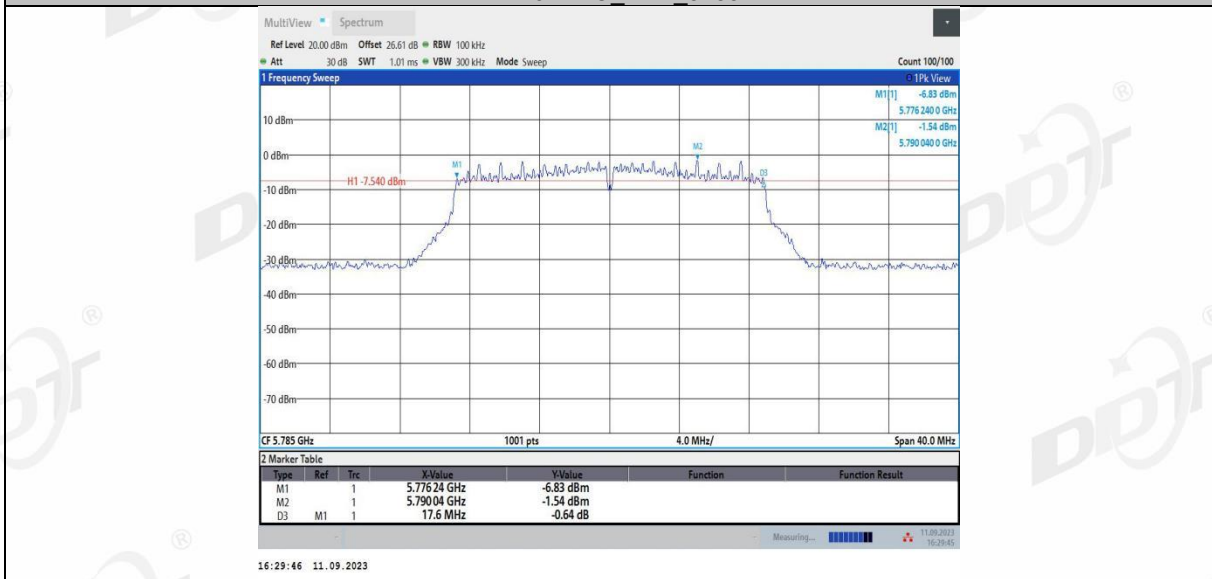
11N20MIMO Ant2 5745



11N20MIMO Ant1 5785



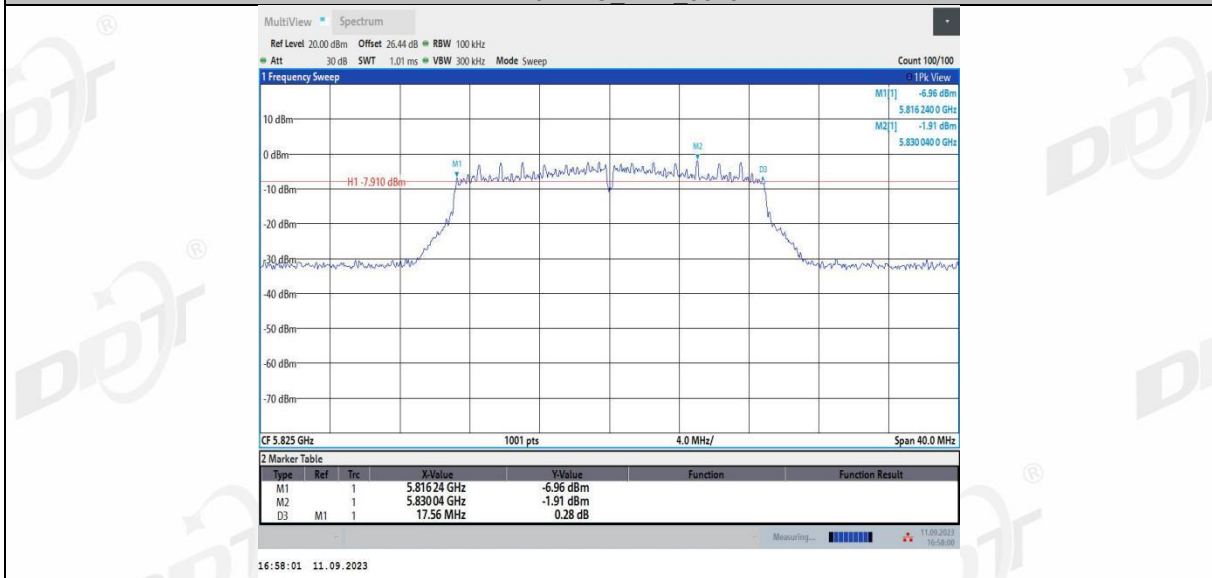
11N20MIMO Ant2 5785



11N20MIMO Ant1 5825



11N20MIMO Ant2 5825



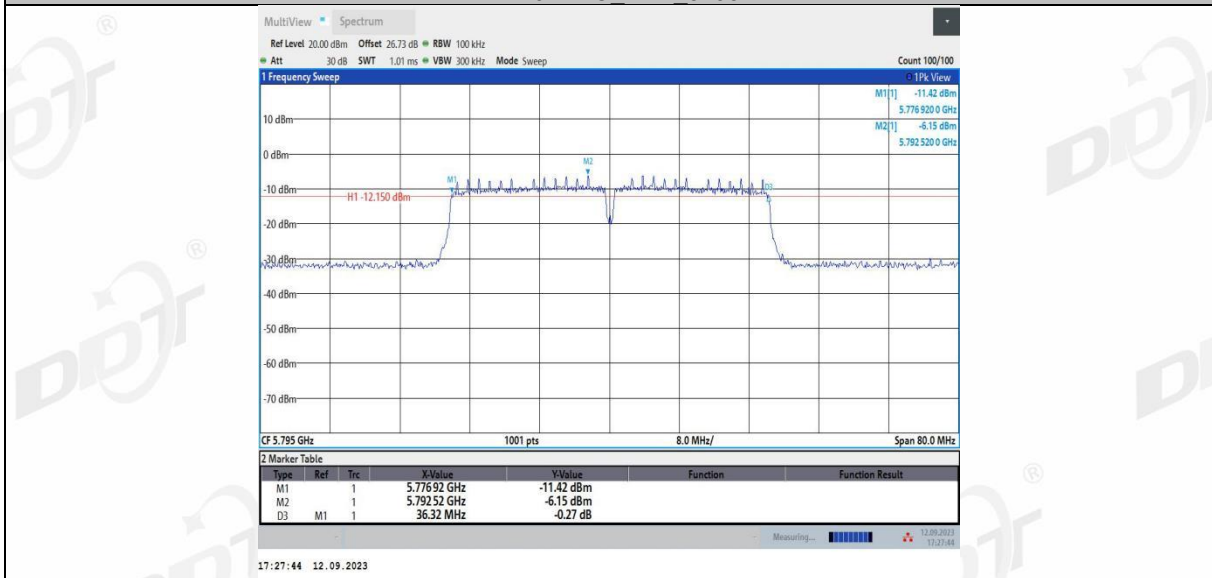
11N40MIMO Ant1 5755



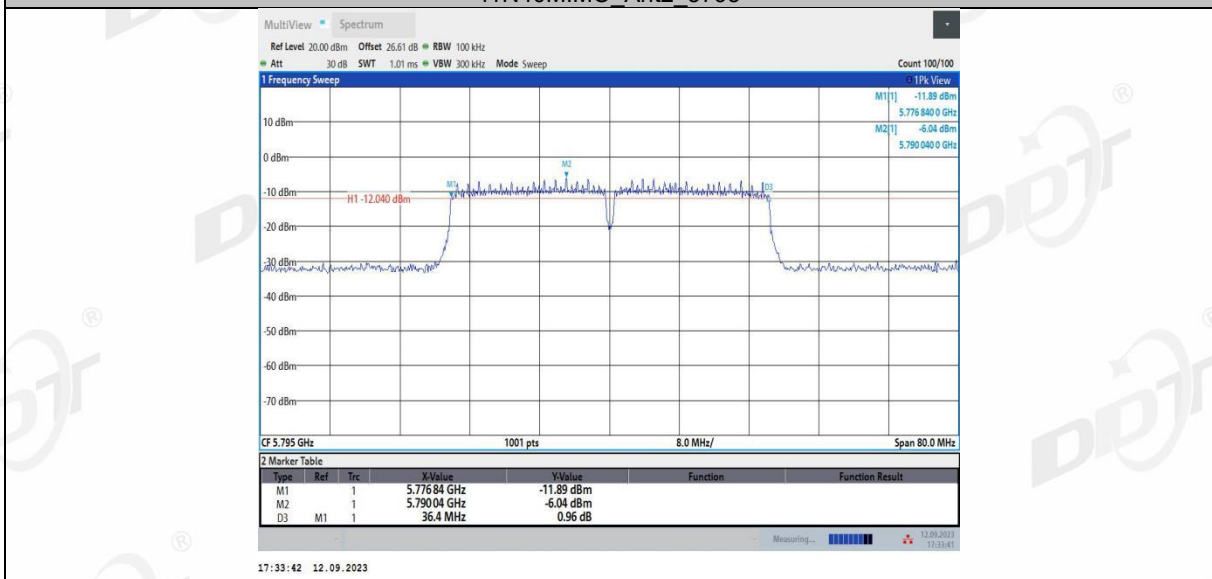
11N40MIMO Ant2 5755



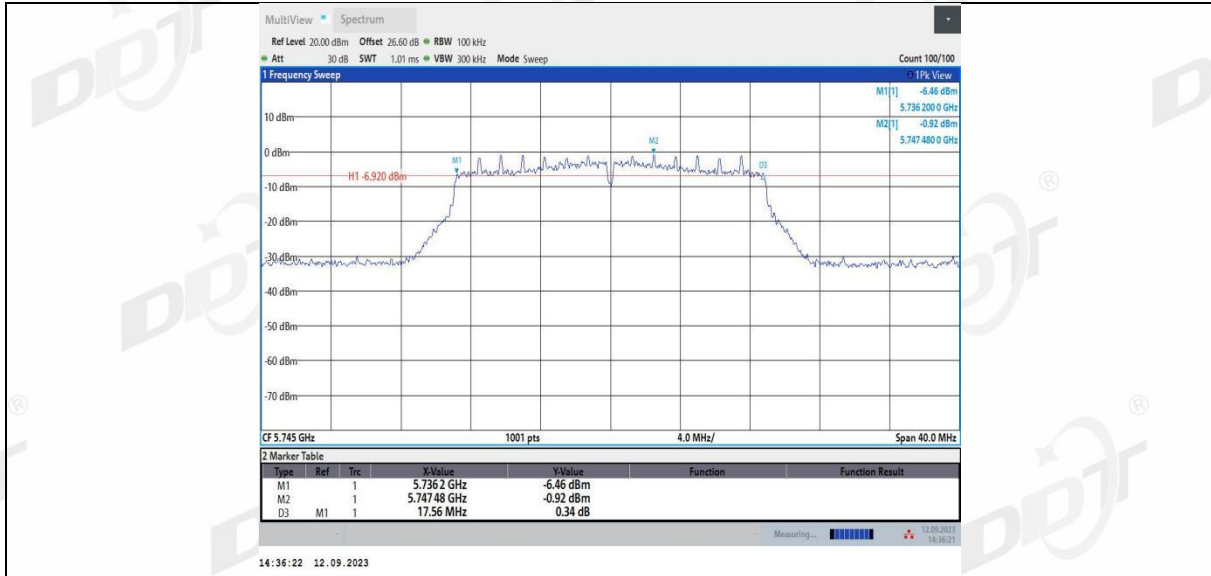
11N40MIMO Ant1 5795



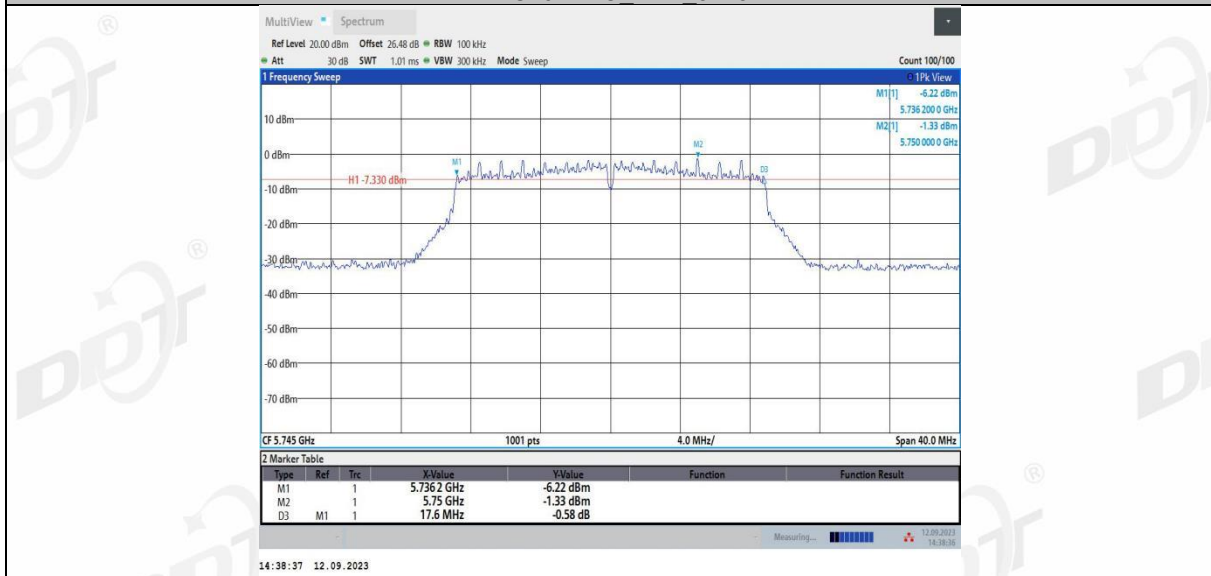
11N40MIMO Ant2 5795



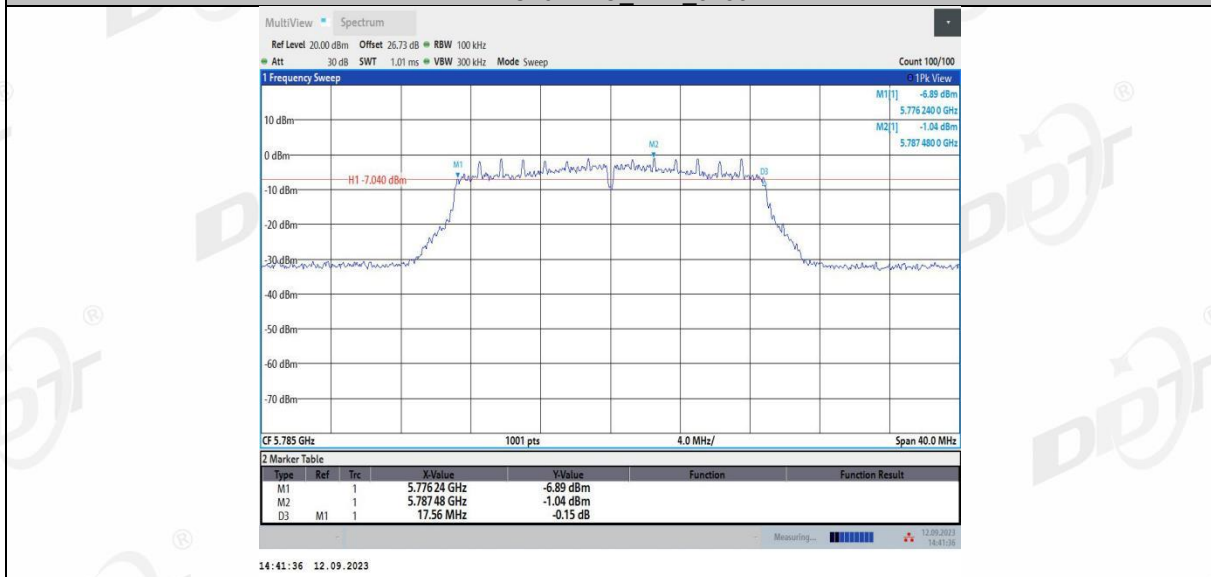
11AC20MIMO Ant1 5745



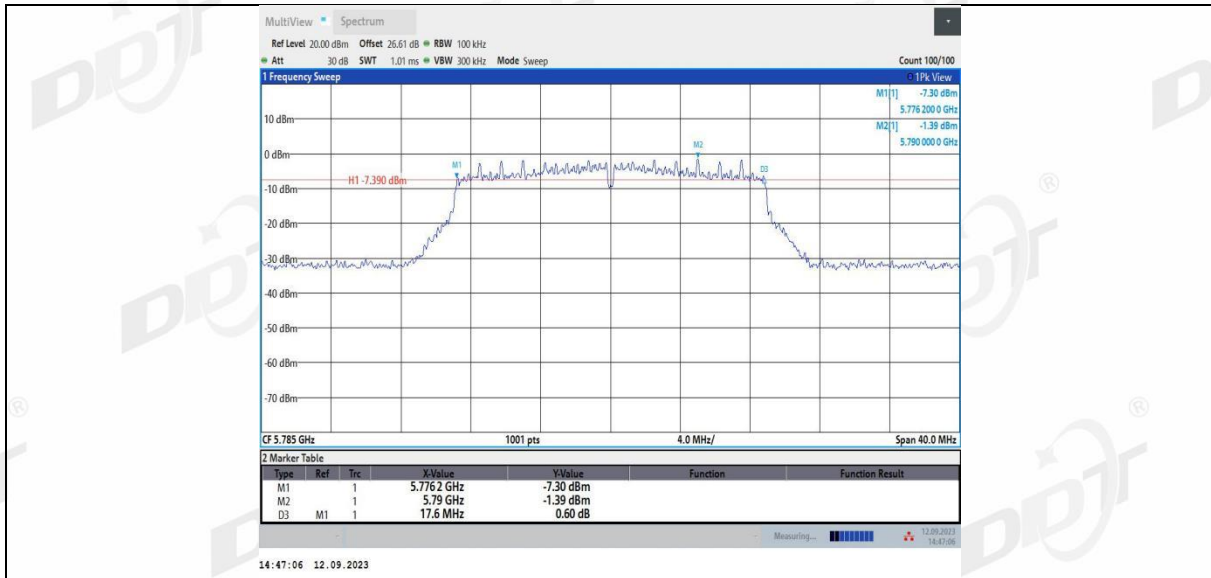
11AC20MIMO Ant2 5745



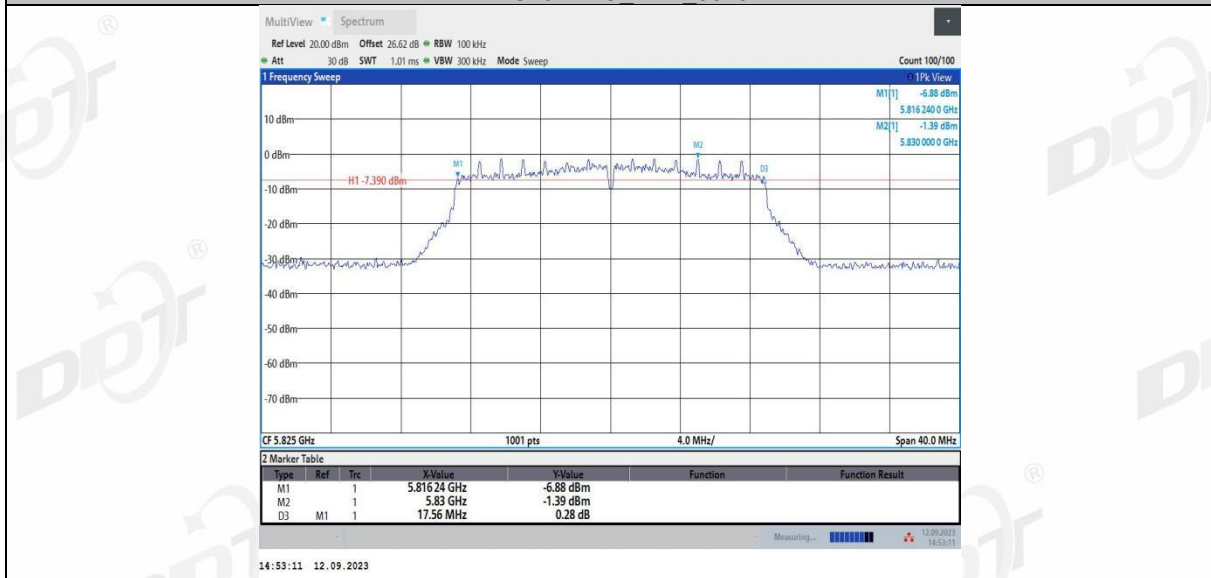
11AC20MIMO Ant1 5785



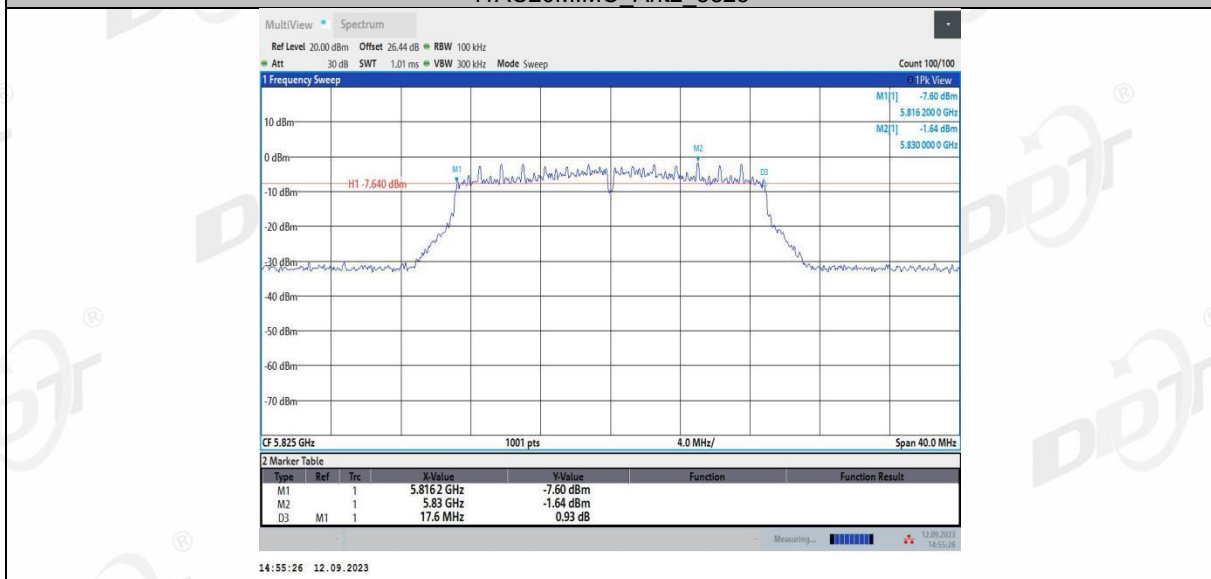
11AC20MIMO Ant2 5785



11AC20MIMO Ant1 5825



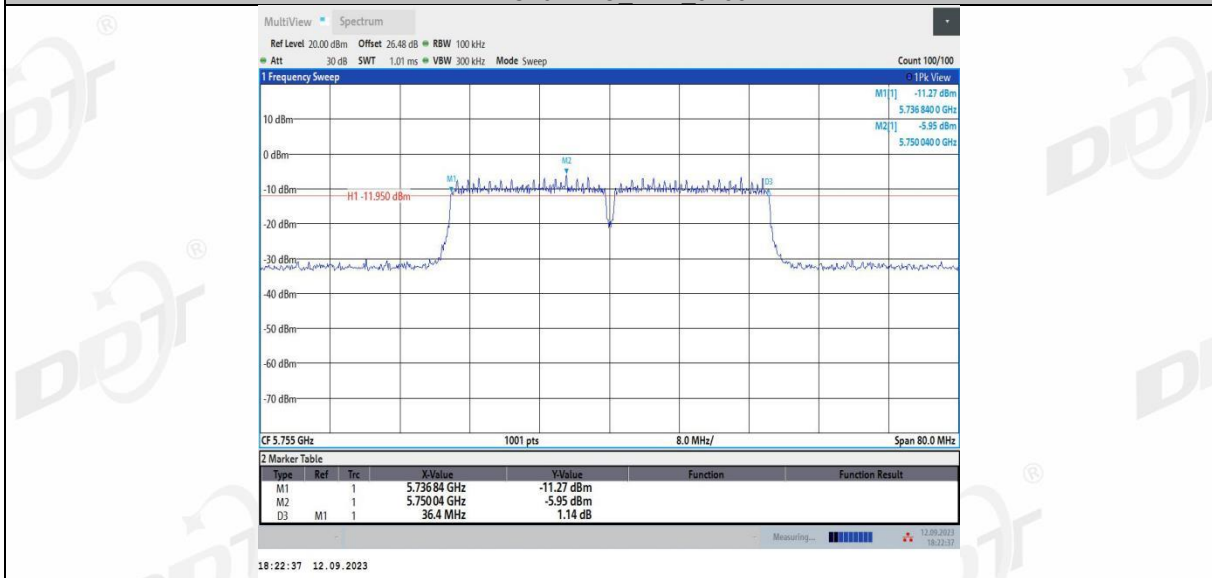
11AC20MIMO Ant2 5825



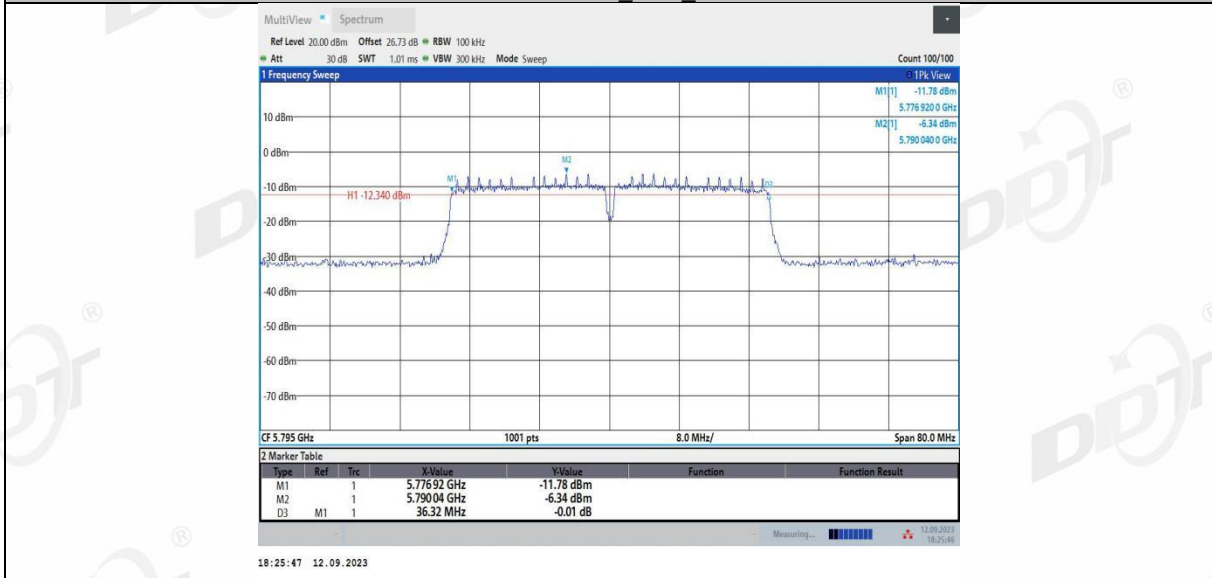
11AC40MIMO Ant1 5755



11AC40MIMO Ant2 5755



11AC40MIMO Ant1 5795

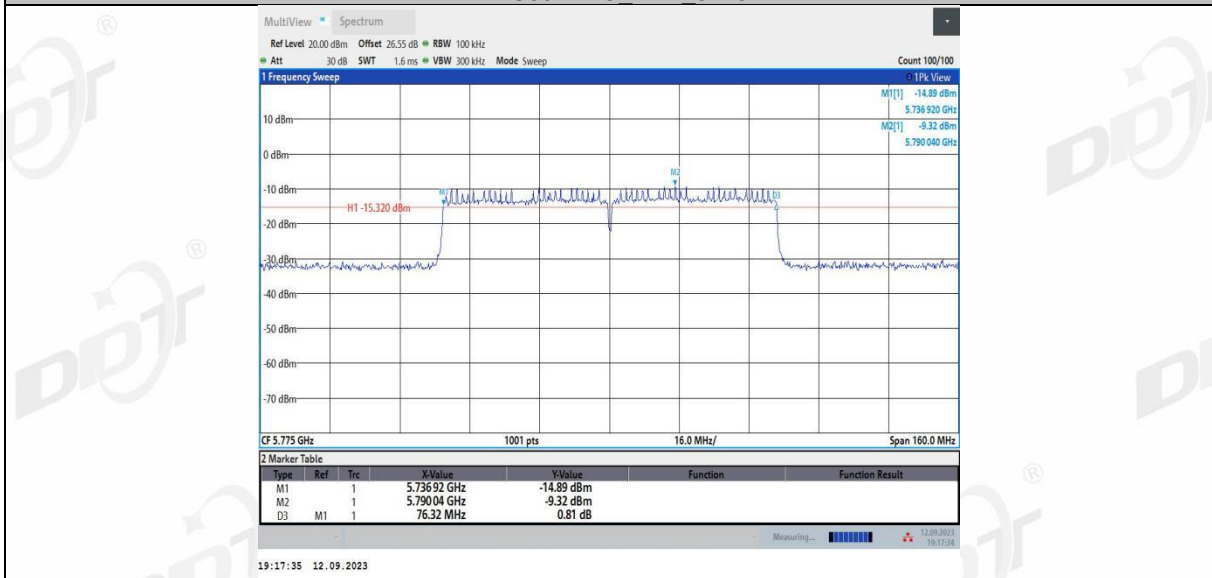


11AC40MIMO Ant2 5795

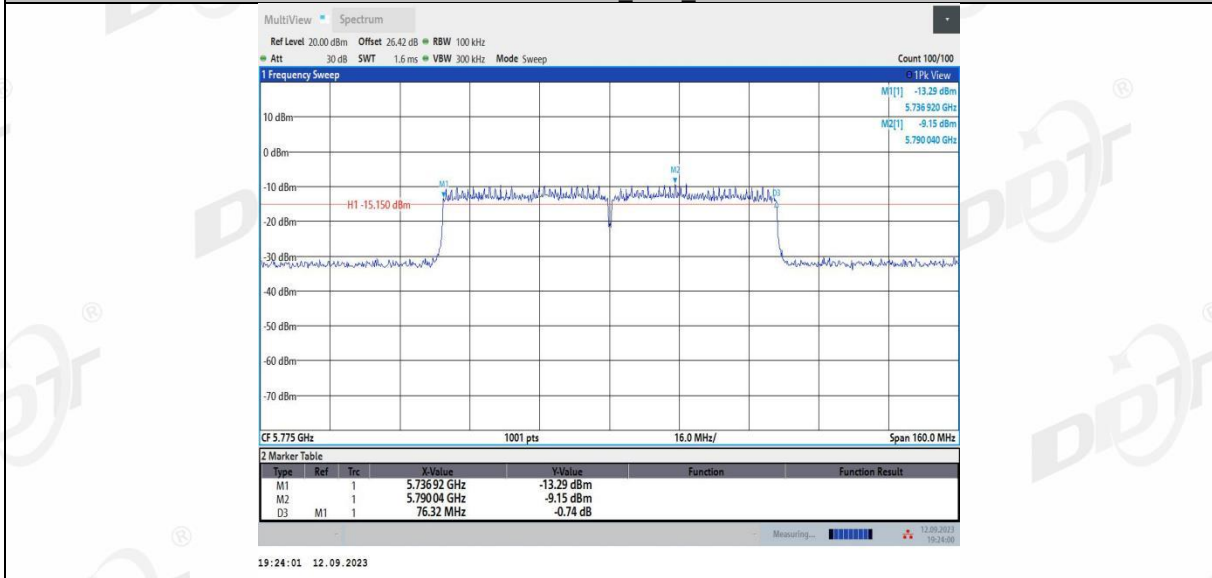




11AC80MIMO Ant1 5775

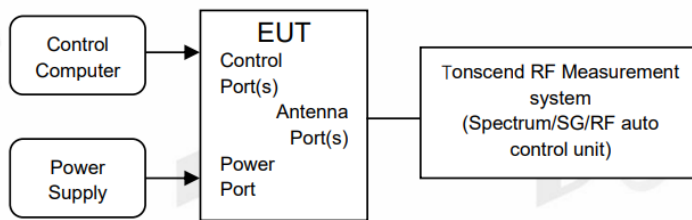


11AC80MIMO Ant2 5775



## 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

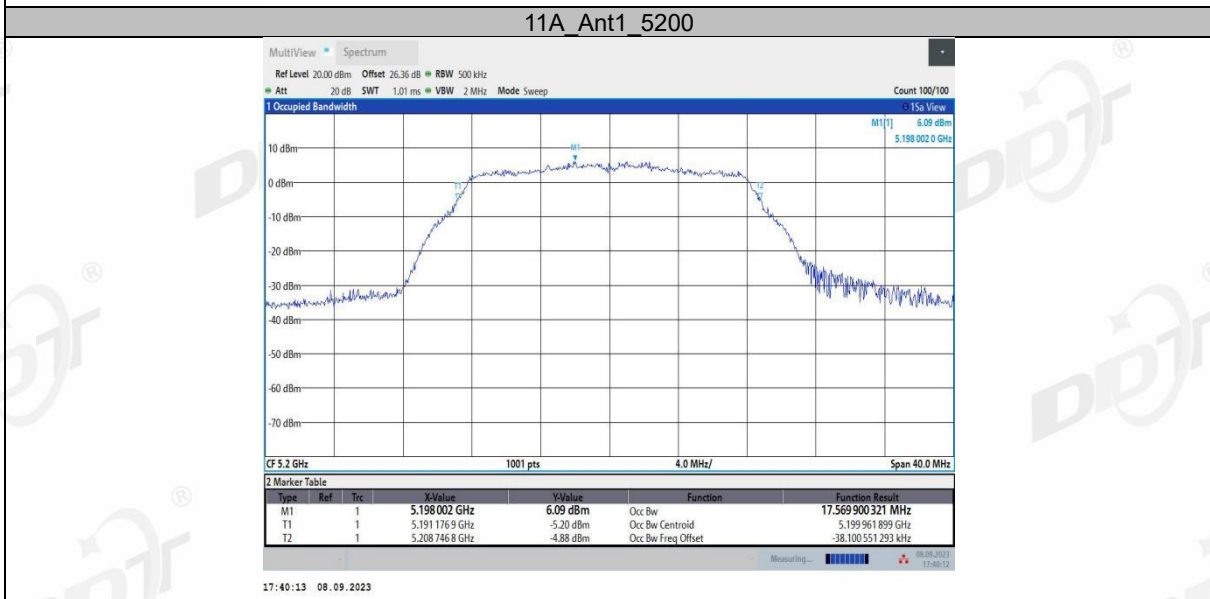
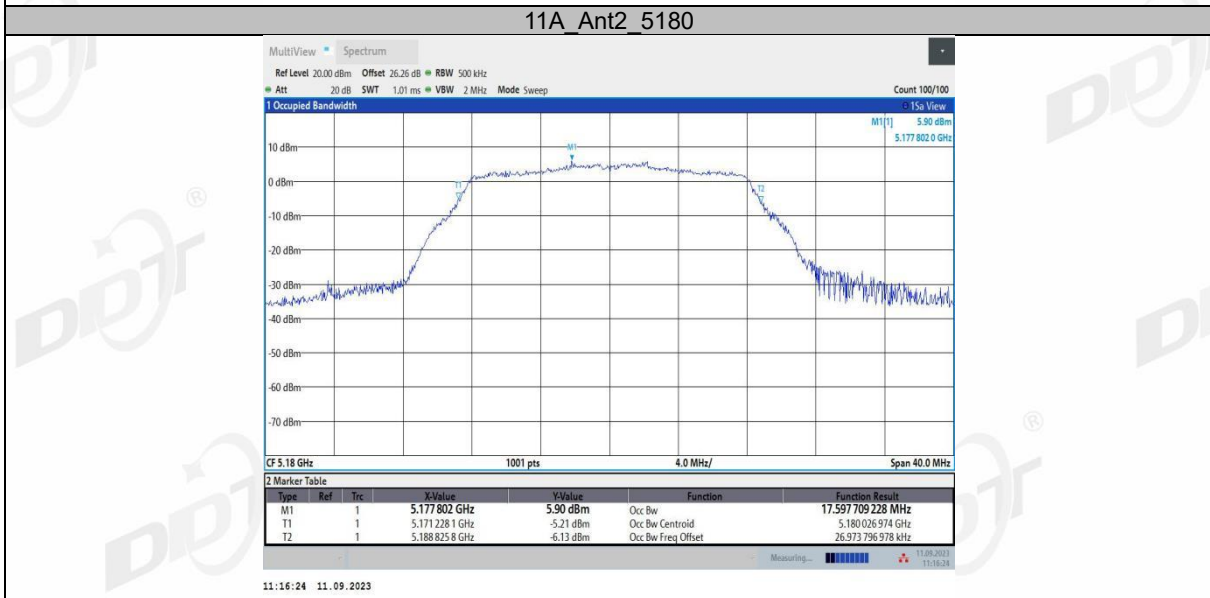
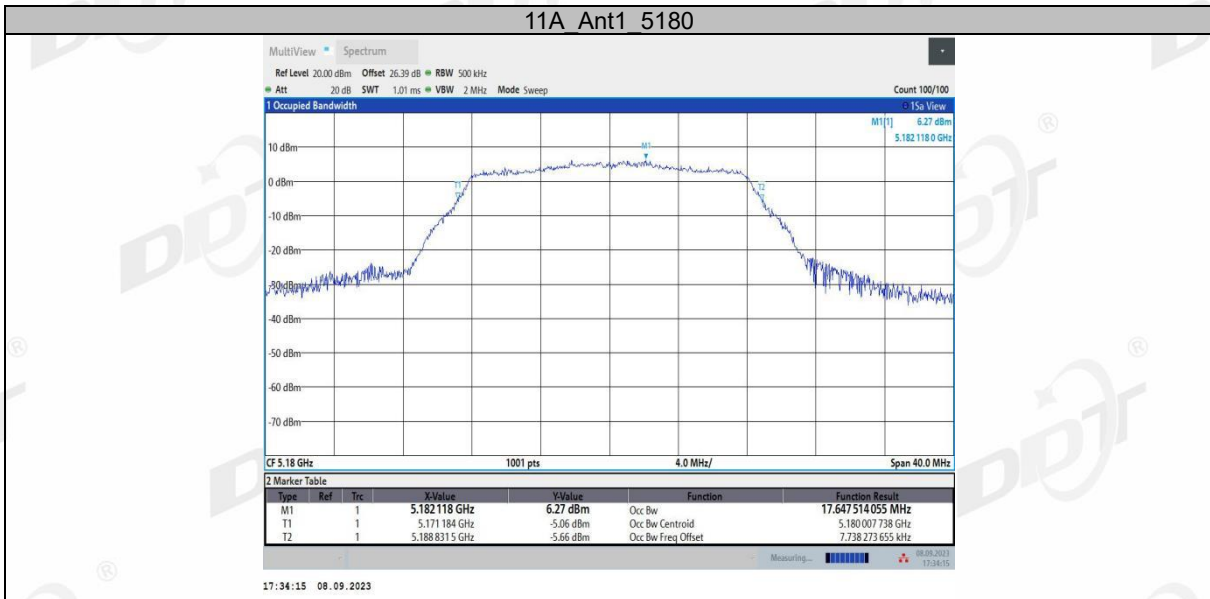
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.648	5171.1840	5188.8315	---	---
	Ant2	5180	17.598	5171.2281	5188.8258	---	---
	Ant1	5200	17.57	5191.1769	5208.7468	---	---
	Ant2	5200	17.557	5191.1963	5208.7532	---	---
	Ant1	5240	17.616	5231.1716	5248.7880	---	---
	Ant2	5240	17.592	5231.2140	5248.8056	---	---
	Ant1	5260	17.647	5251.1896	5268.8364	---	---
	Ant2	5260	17.602	5251.1865	5268.7883	---	---
	Ant1	5280	17.605	5271.1877	5288.7925	---	---
	Ant2	5280	17.595	5271.1909	5288.7862	---	---
	Ant1	5320	17.635	5311.1541	5328.7892	---	---
	Ant2	5320	17.605	5311.2027	5328.8074	---	---
	Ant1	5500	17.65	5491.1796	5508.8291	---	---
	Ant2	5500	17.627	5491.2155	5508.8421	---	---
	Ant1	5580	17.665	5571.1362	5588.8008	---	---
	Ant2	5580	17.636	5571.1731	5588.8095	---	---
	Ant1	5700	17.6	5691.2009	5708.8004	---	---
	Ant2	5700	17.595	5691.1886	5708.7838	---	---
	Ant1	5720	17.629	5711.1651	5728.7939	---	---
	Ant2	5720	17.301	5711.4063	5728.7070	---	---
Ant1	5720 UNII-2C	13.835	5711.1651	5725	---	---	
Ant2	5720 UNII-2C	13.594	5711.4063	5725	---	---	

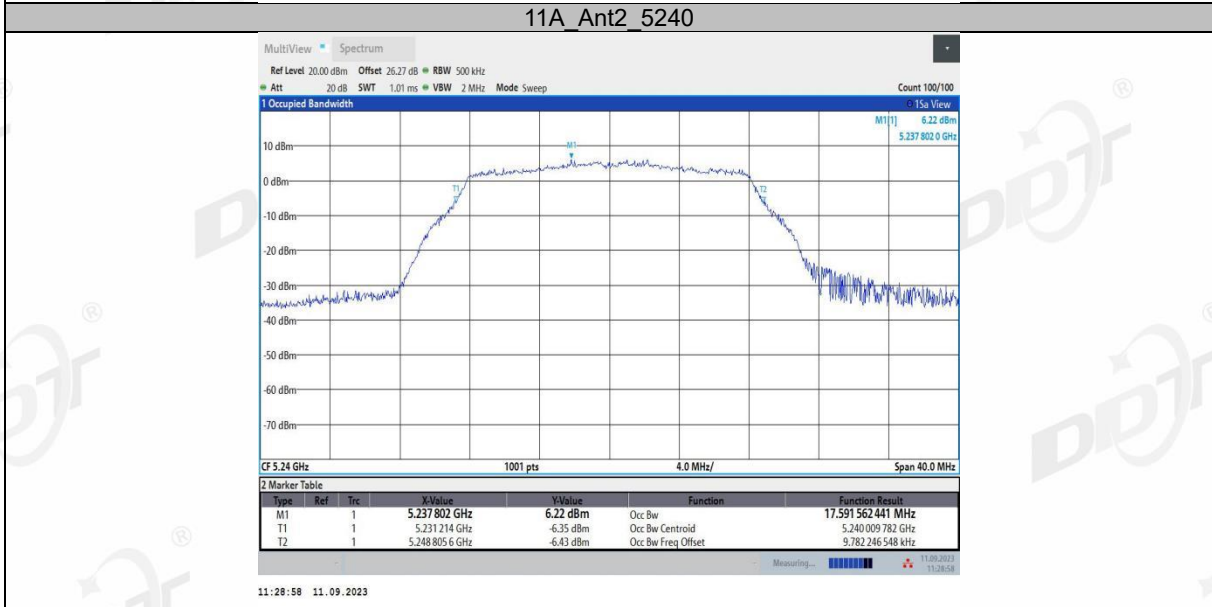
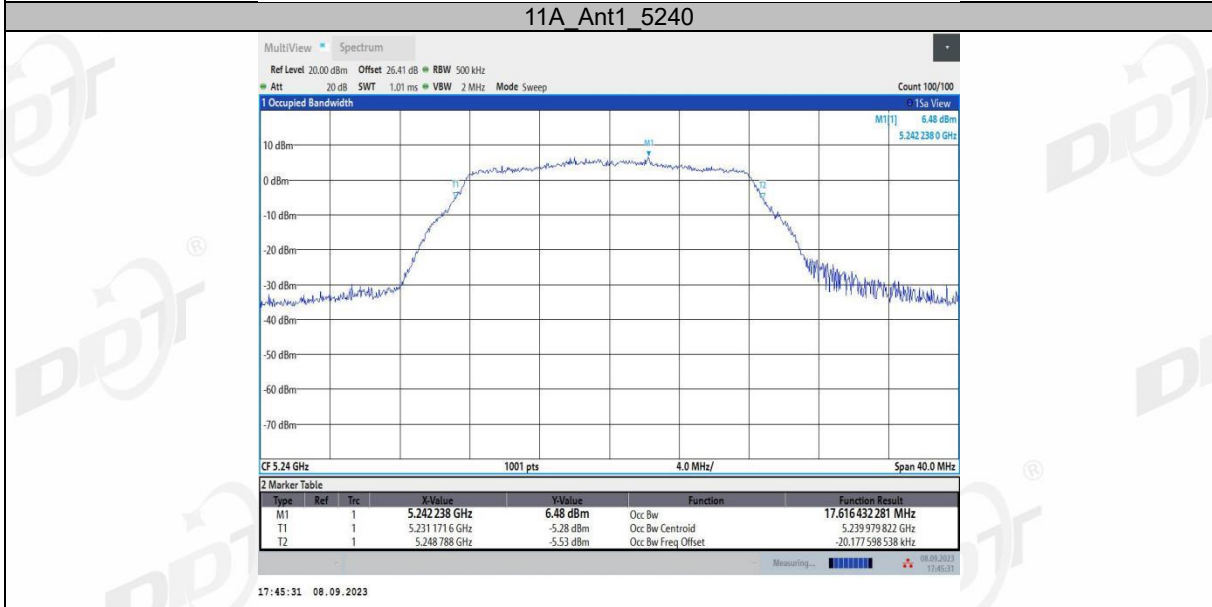
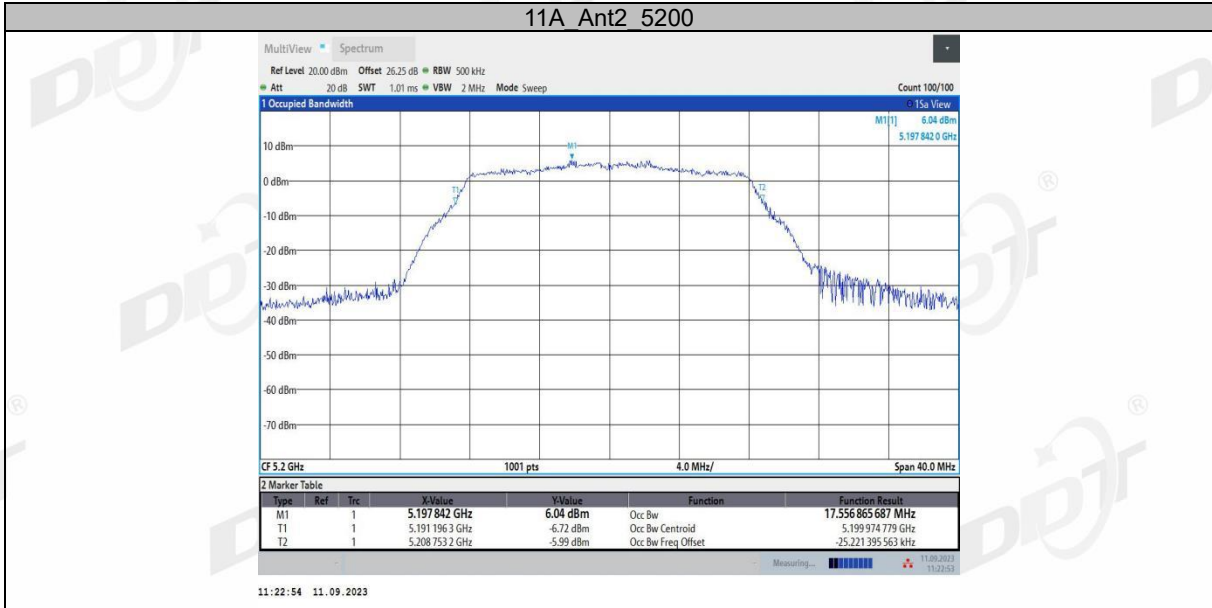
	Ant1	5720 UNII-3	3.794	5725	5728.7939	---	---	
	Ant2	5720 UNII-3	3.707	5725	5728.7070	---	---	
	Ant1	5745	17.6	5736.1749	5753.7751	---	---	
	Ant2	5745	17.639	5736.1843	5753.8230	---	---	
	Ant1	5785	17.547	5776.2399	5793.7866	---	---	
	Ant2	5785	17.542	5776.2385	5793.7802	---	---	
	Ant1	5825	17.547	5816.2031	5833.7500	---	---	
	Ant2	5825	17.553	5816.2555	5833.8081	---	---	
11N20MIMO	Ant1	5180	18.646	5170.6765	5189.3223	---	---	
	Ant2	5180	18.078	5170.9784	5189.0564	---	---	
	Ant1	5200	18.61	5190.6704	5209.2800	---	---	
	Ant2	5200	18.109	5190.9337	5209.0429	---	---	
	Ant1	5240	18.55	5230.7566	5249.3069	---	---	
	Ant2	5240	18.107	5230.9743	5249.0814	---	---	
	Ant1	5260	18.596	5250.7144	5269.3101	---	---	
	Ant2	5260	18.073	5250.9995	5269.0729	---	---	
	Ant1	5280	18.55	5270.7532	5289.3034	---	---	
	Ant2	5280	18.081	5270.9757	5289.0566	---	---	
	Ant1	5320	18.562	5310.7658	5329.3277	---	---	
	Ant2	5320	18.111	5310.9810	5329.0921	---	---	
	Ant1	5500	18.604	5490.7648	5509.3691	---	---	
	Ant2	5500	18.093	5491.0140	5509.1073	---	---	
	Ant1	5580	18.595	5570.7759	5589.3705	---	---	
	Ant2	5580	18.082	5571.0078	5589.0895	---	---	
	Ant1	5700	18.573	5690.7369	5709.3095	---	---	
	Ant2	5700	18.08	5691.0097	5709.0896	---	---	
	Ant1	5720	18.609	5710.6872	5729.2959	---	---	
	Ant2	5720	18.095	5710.9558	5729.0504	---	---	
	Ant1	5720 UNII-2C	14.313	5710.6872	5725	---	---	
	Ant2	5720 UNII-2C	14.044	5710.9558	5725	---	---	
	Ant1	5720 UNII-3	4.296	5725	5729.2959	---	---	
	Ant2	5720 UNII-3	4.05	5725	5729.0504	---	---	
	Ant1	5745	18.589	5735.7629	5754.3515	---	---	
	Ant2	5745	18.061	5736.0239	5754.0847	---	---	
	Ant1	5785	18.59	5775.7561	5794.3465	---	---	
	Ant2	5785	18.063	5776.0389	5794.1021	---	---	
	Ant1	5825	18.593	5815.7410	5834.3341	---	---	
	Ant2	5825	18.079	5816.0069	5834.0861	---	---	
	11N40MIMO	Ant1	5190	36.782	5171.5704	5208.3529	---	---
		Ant2	5190	36.708	5171.6199	5208.3276	---	---
Ant1		5230	36.747	5211.6830	5248.4303	---	---	
Ant2		5230	36.704	5211.6685	5248.3727	---	---	
Ant1		5270	36.801	5251.6118	5288.4123	---	---	
Ant2		5270	36.709	5251.6697	5288.3785	---	---	
Ant1		5310	36.779	5291.6445	5328.4231	---	---	
Ant2		5310	36.722	5291.6711	5328.3929	---	---	
Ant1		5510	36.848	5491.6246	5528.4726	---	---	
Ant2		5510	36.681	5491.7462	5528.4275	---	---	
Ant1		5550	36.834	5531.6019	5568.4360	---	---	
Ant2		5550	36.767	5531.6493	5568.4163	---	---	
Ant1		5670	36.866	5651.6102	5688.4759	---	---	
Ant2		5670	36.766	5651.6618	5688.4280	---	---	
Ant1		5710	36.859	5691.5683	5728.4276	---	---	
Ant2		5710	36.745	5691.6113	5728.3565	---	---	
Ant1		5710 UNII-2C	33.432	5691.5683	5725	---	---	
Ant2		5710 UNII-2C	33.389	5691.6113	5725	---	---	
Ant1		5710 UNII-3	3.428	5725	5728.4276	---	---	
Ant2		5710 UNII-3	3.356	5725	5728.3565	---	---	
Ant1		5755	36.792	5736.5947	5773.3872	---	---	
Ant2		5755	36.742	5736.6246	5773.3669	---	---	
Ant1		5795	36.673	5776.6604	5813.3329	---	---	
Ant2		5795	36.585	5776.7193	5813.3044	---	---	
11AC20MIMO	Ant1	5180	18.616	5170.7324	5189.3479	---	---	
	Ant2	5180	18.066	5170.9894	5189.0555	---	---	

	Ant1	5200	18.597	5190.6968	5209.2937	---	---
	Ant2	5200	18.1	5190.9456	5209.0452	---	---
	Ant1	5240	18.586	5230.7619	5249.3478	---	---
	Ant2	5240	18.101	5230.9910	5249.0917	---	---
	Ant1	5260	18.571	5250.7365	5269.3079	---	---
	Ant2	5260	18.068	5250.9988	5269.0672	---	---
	Ant1	5280	18.597	5270.7124	5289.3095	---	---
	Ant2	5280	18.088	5270.9902	5289.0778	---	---
	Ant1	5320	18.574	5310.7804	5329.3541	---	---
	Ant2	5320	18.08	5310.9928	5329.0729	---	---
	Ant1	5500	18.521	5490.7448	5509.2655	---	---
	Ant2	5500	16.717	5491.5977	5508.3146	---	---
	Ant1	5580	18.589	5570.6900	5589.2794	---	---
	Ant2	5580	18.098	5570.9515	5589.0497	---	---
	Ant1	5700	18.624	5690.7145	5709.3388	---	---
	Ant2	5700	18.023	5690.9946	5709.0177	---	---
	Ant1	5720	18.572	5710.7297	5729.3013	---	---
	Ant2	5720	18.094	5710.9839	5729.0780	---	---
	Ant1	5720 UNII-2C	14.27	5710.7297	5725	---	---
	Ant2	5720 UNII-2C	14.016	5710.9839	5725	---	---
	Ant1	5720 UNII-3	4.301	5725	5729.3013	---	---
	Ant2	5720 UNII-3	4.078	5725	5729.0780	---	---
	Ant1	5745	18.583	5735.7334	5754.3162	---	---
	Ant2	5745	18.09	5735.9507	5754.0409	---	---
	Ant1	5785	18.544	5775.7610	5794.3053	---	---
	Ant2	5785	18.076	5776.0017	5794.0782	---	---
	Ant1	5825	18.557	5815.7480	5834.3050	---	---
	Ant2	5825	18.089	5815.9897	5834.0790	---	---
11AC40MIMO	Ant1	5190	36.766	5171.6254	5208.3918	---	---
	Ant2	5190	36.644	5171.6942	5208.3379	---	---
	Ant1	5230	36.813	5211.6501	5248.4629	---	---
	Ant2	5230	36.713	5211.6993	5248.4119	---	---
	Ant1	5270	36.847	5251.6034	5288.4500	---	---
	Ant2	5270	36.689	5251.6763	5288.3651	---	---
	Ant1	5310	36.878	5291.5952	5328.4735	---	---
	Ant2	5310	36.687	5291.6870	5328.3739	---	---
	Ant1	5510	36.816	5491.6135	5528.4298	---	---
	Ant2	5510	36.698	5491.7138	5528.4119	---	---
	Ant1	5550	36.808	5531.6125	5568.4210	---	---
	Ant2	5550	36.674	5531.6913	5568.3648	---	---
	Ant1	5670	36.859	5651.6241	5688.4835	---	---
	Ant2	5670	36.755	5651.6894	5688.4448	---	---
	Ant1	5710	36.856	5691.5625	5728.4181	---	---
	Ant2	5710	36.665	5691.6758	5728.3411	---	---
	Ant1	5710 UNII-2C	33.438	5691.5625	5725	---	---
	Ant2	5710 UNII-2C	33.324	5691.6758	5725	---	---
	Ant1	5710 UNII-3	3.418	5725	5728.4181	---	---
	Ant2	5710 UNII-3	3.341	5725	5728.3411	---	---
	Ant1	5755	36.804	5736.5931	5773.3970	---	---
	Ant2	5755	36.743	5736.6222	5773.3653	---	---
	Ant1	5795	36.596	5776.7087	5813.3050	---	---
	Ant2	5795	36.574	5776.7296	5813.3035	---	---
11AC80MIMO	Ant1	5210	76.273	5171.8660	5248.1392	---	---
	Ant2	5210	76.303	5171.9013	5248.2040	---	---
	Ant1	5290	76.556	5251.8190	5328.3746	---	---
	Ant2	5290	76.277	5251.8893	5328.1666	---	---
	Ant1	5530	76.274	5491.8993	5568.1735	---	---
	Ant2	5530	76.04	5492.0841	5568.1237	---	---
	Ant1	5610	76.494	5571.8770	5648.3715	---	---
	Ant2	5610	76.248	5571.9676	5648.2157	---	---
	Ant1	5690	76.498	5651.7866	5728.2849	---	---
	Ant2	5690	76.308	5651.8893	5728.1978	---	---
	Ant1	5690 UNII-2C	73.213	5651.7866	5725	---	---
	Ant2	5690 UNII-2C	73.111	5651.8893	5725	---	---

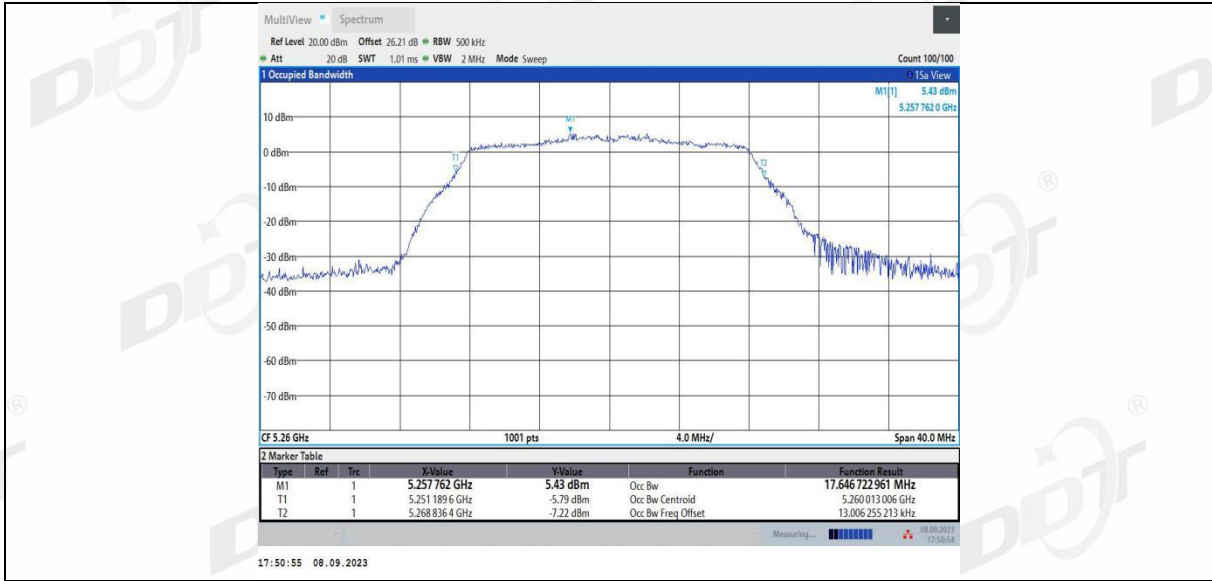
Ant1	5690 UNII-3	3.285	5725	5728.2849	---	---
Ant2	5690 UNII-3	3.198	5725	5728.1978	---	---
Ant1	5775	76.458	5736.7622	5813.2199	---	---
Ant2	5775	76.255	5736.8406	5813.0954	---	---

6.5. Test graphs





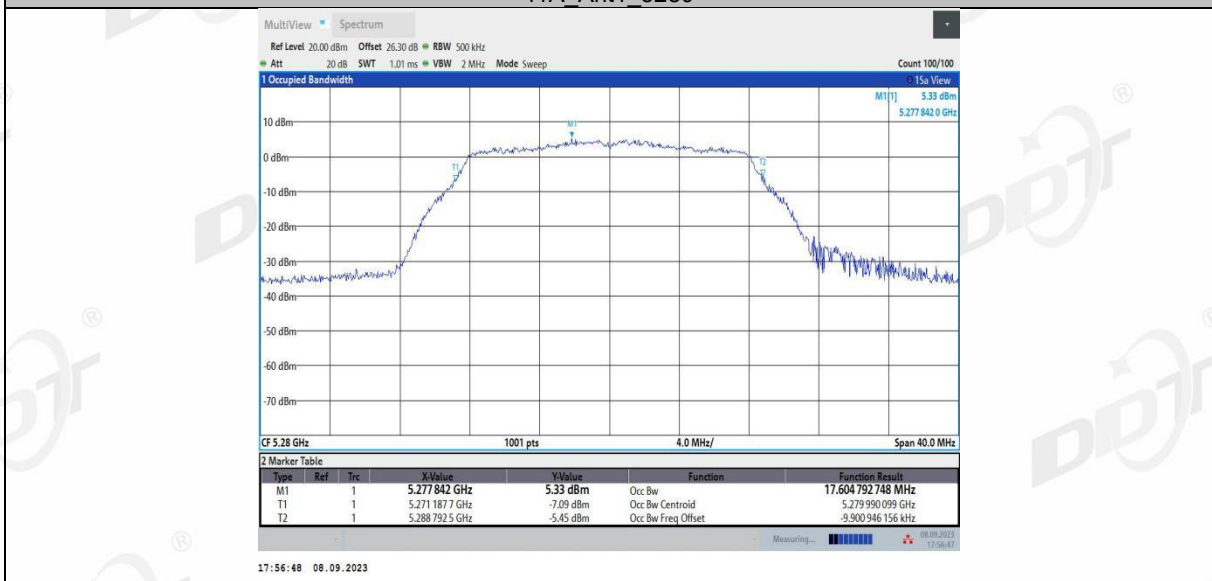
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11A Ant2 5260

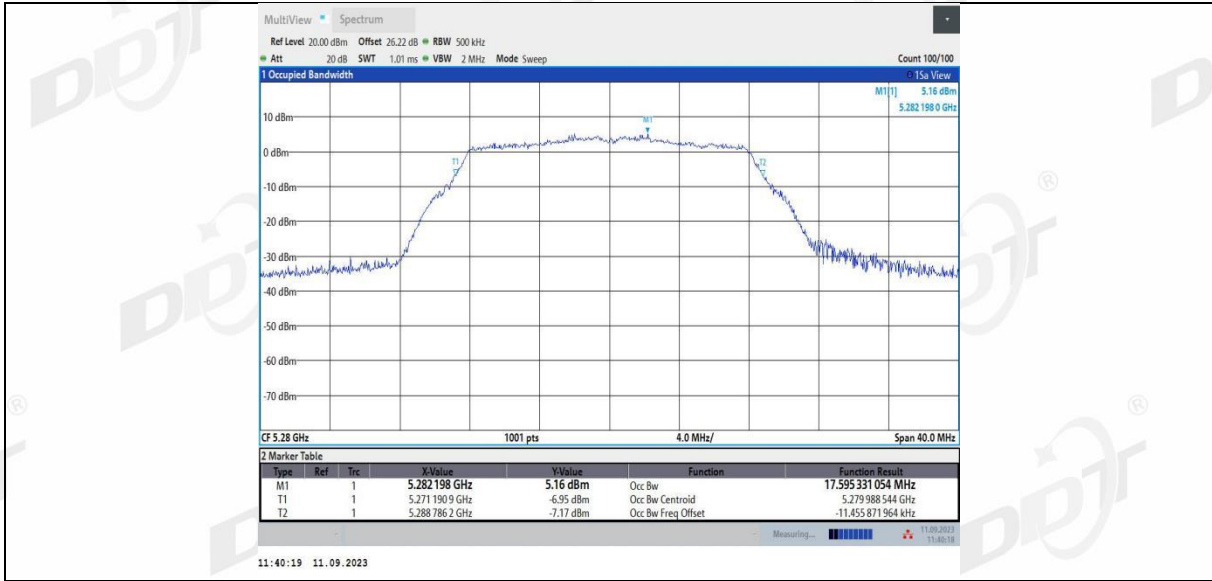


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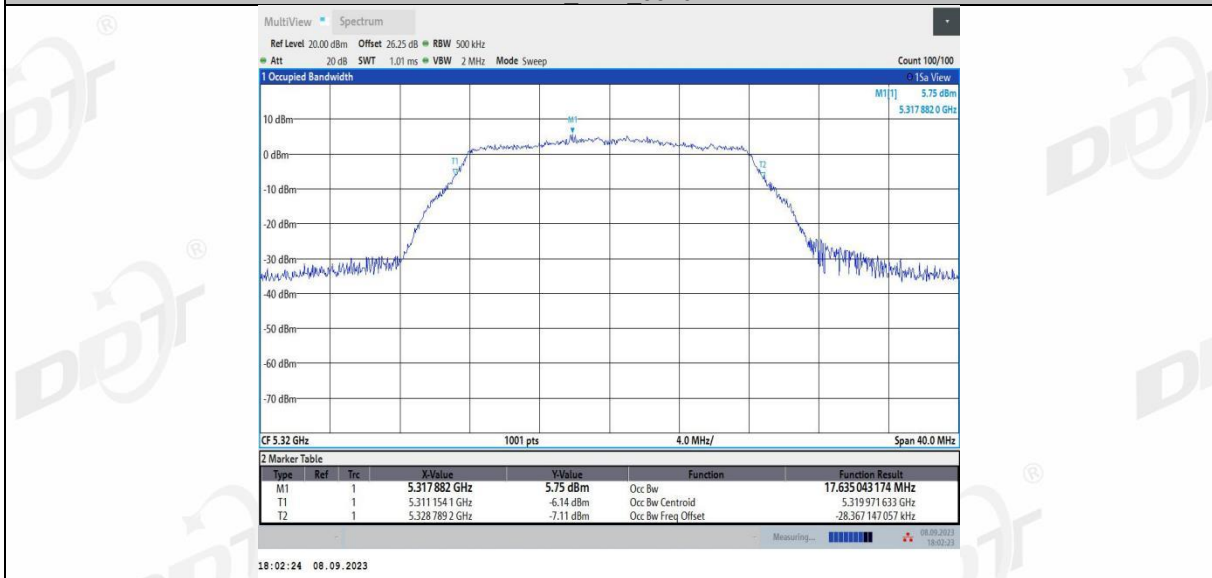


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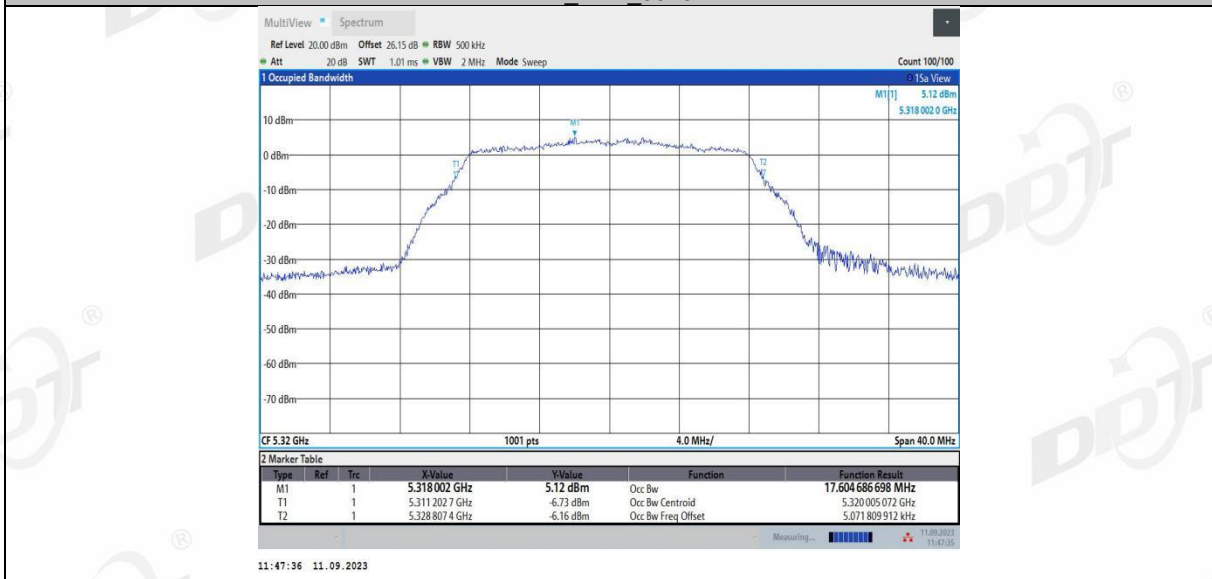




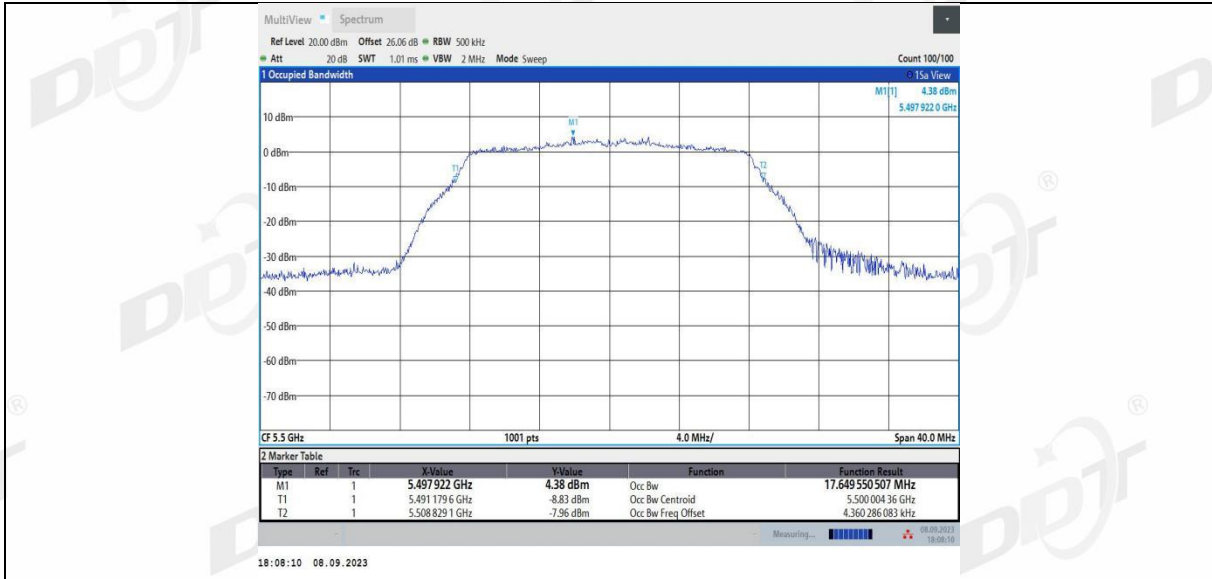
11A Ant1 5320



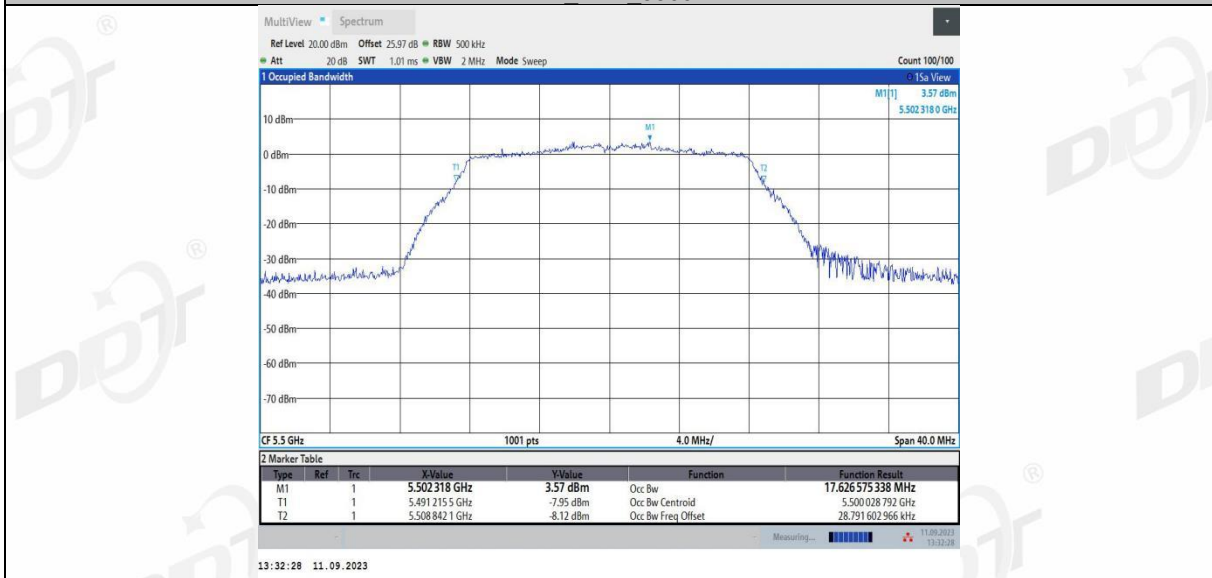
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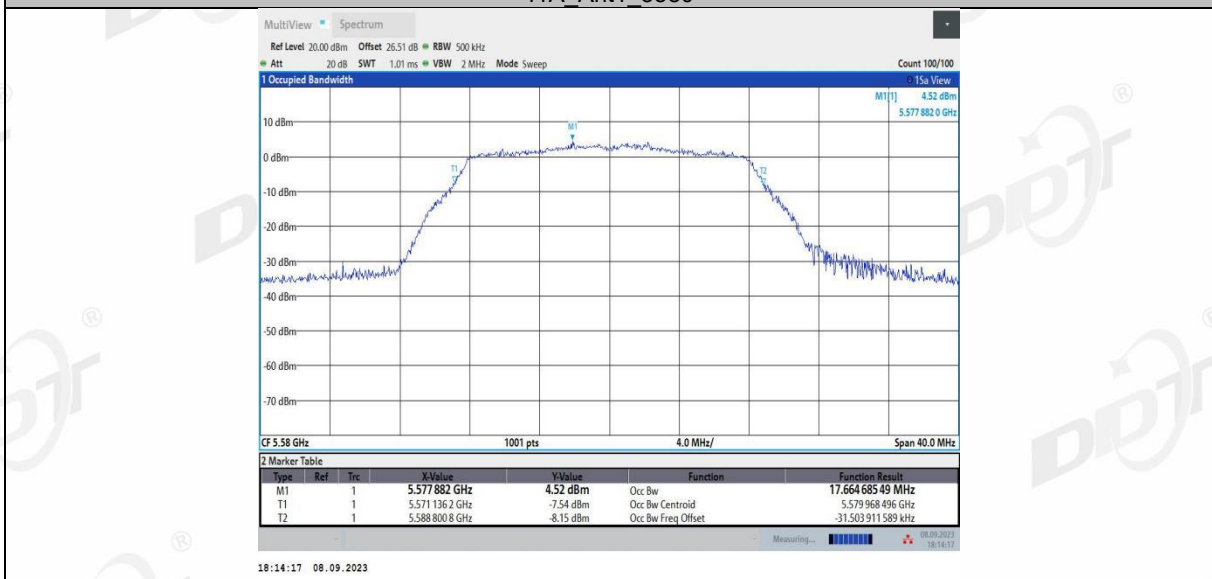
11A Ant1 5500



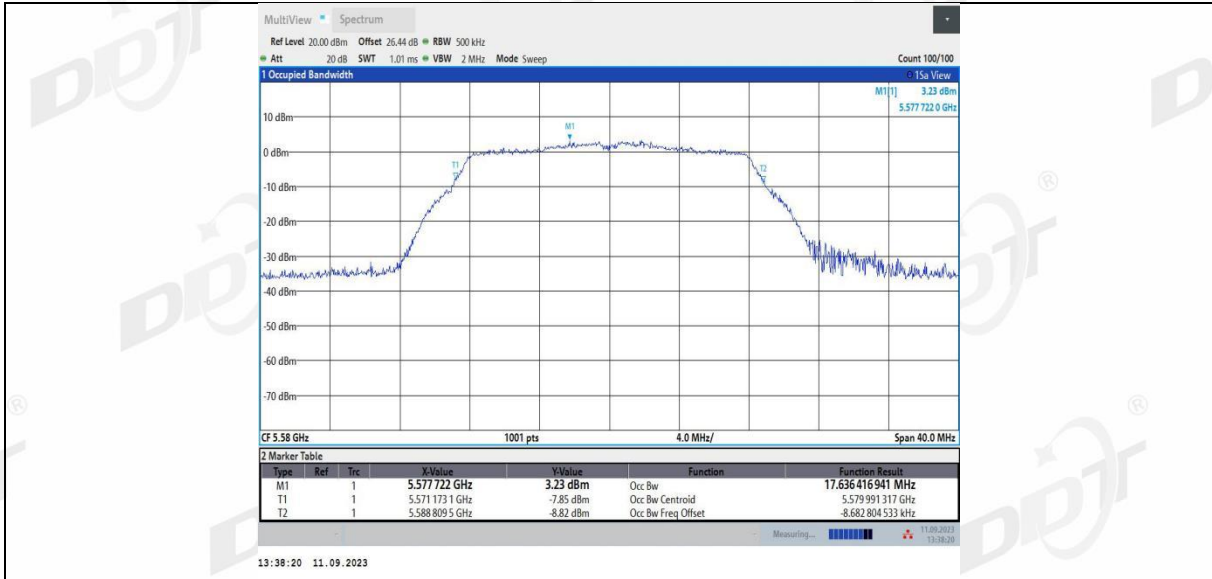
11A Ant2 5500



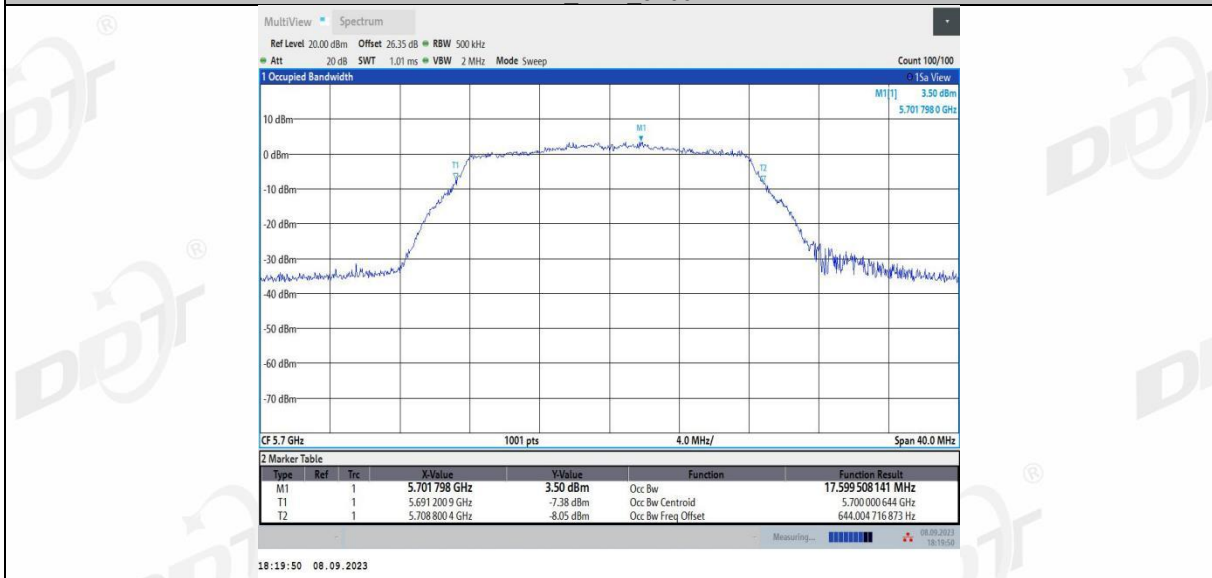
11A Ant1 5580



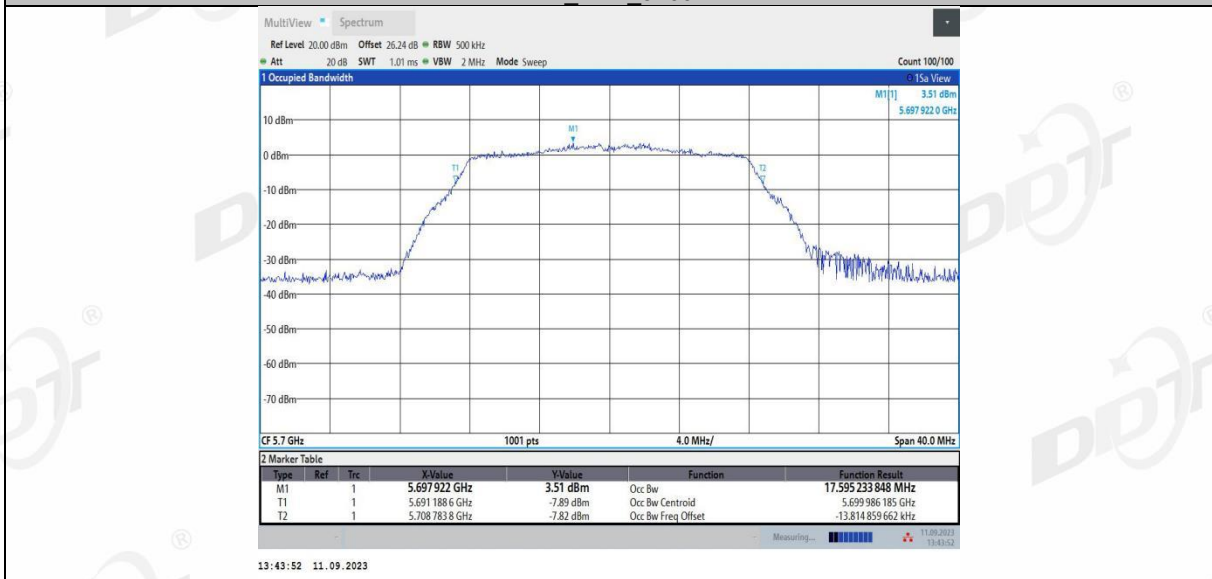
11A Ant2 5580



11A Ant1 5700



11A Ant2 5700



11A Ant1 5720