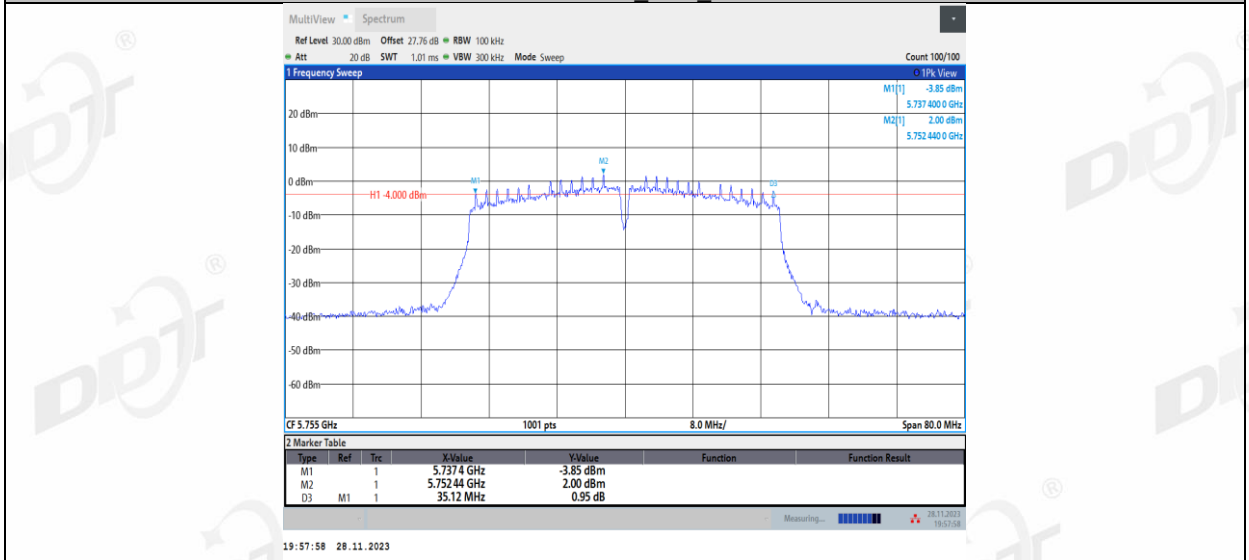
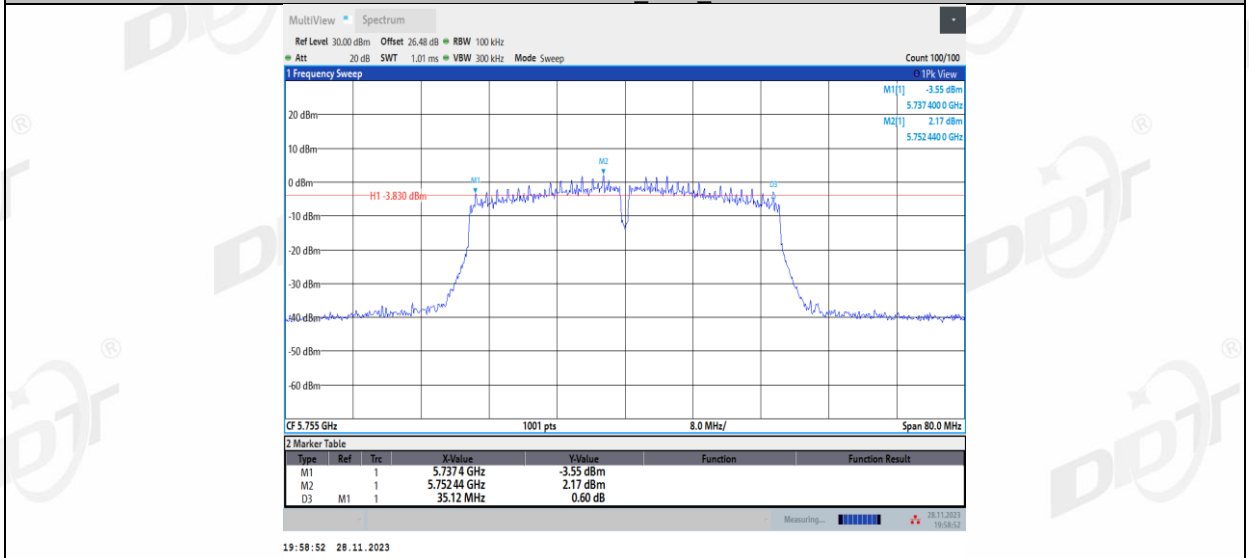


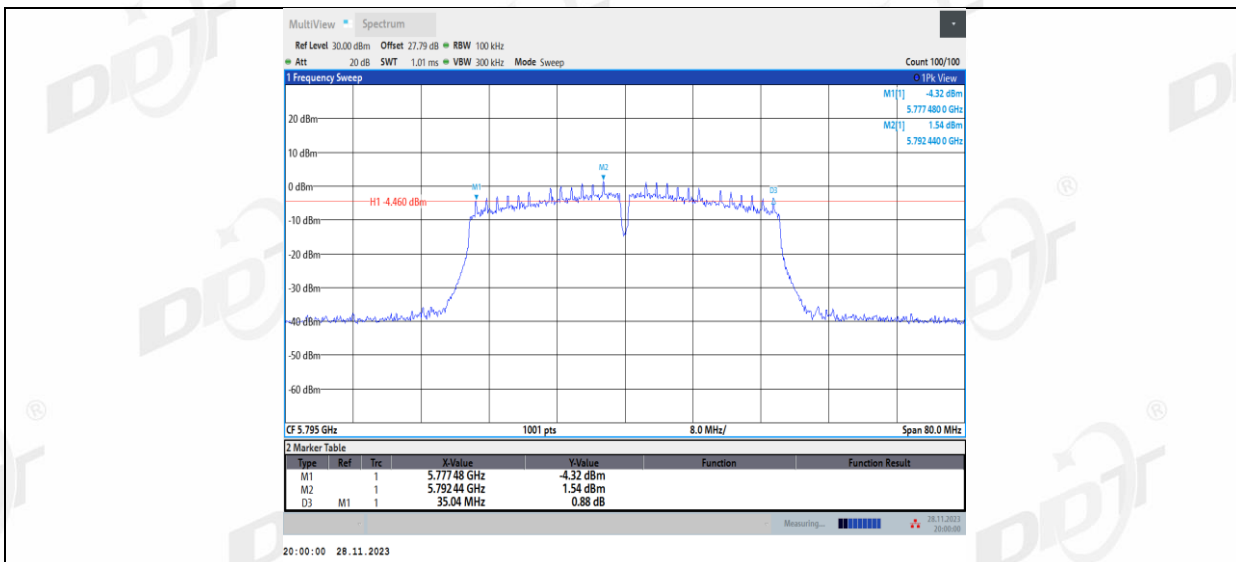
11AC40MIMO\_Ant1\_5755



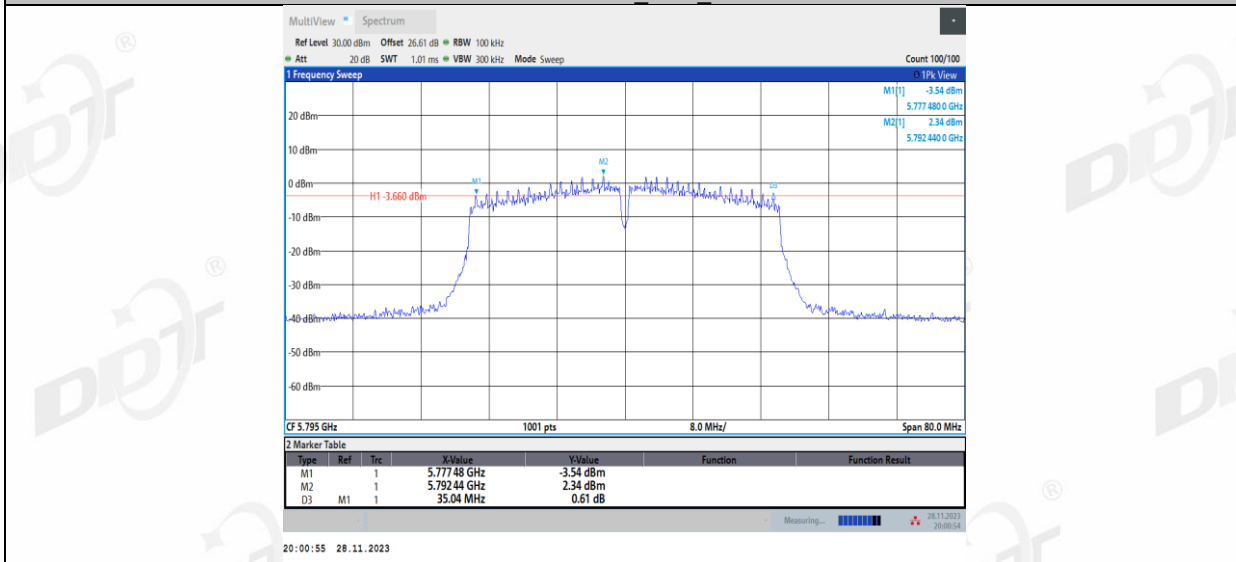
11AC40MIMO\_Ant2\_5755



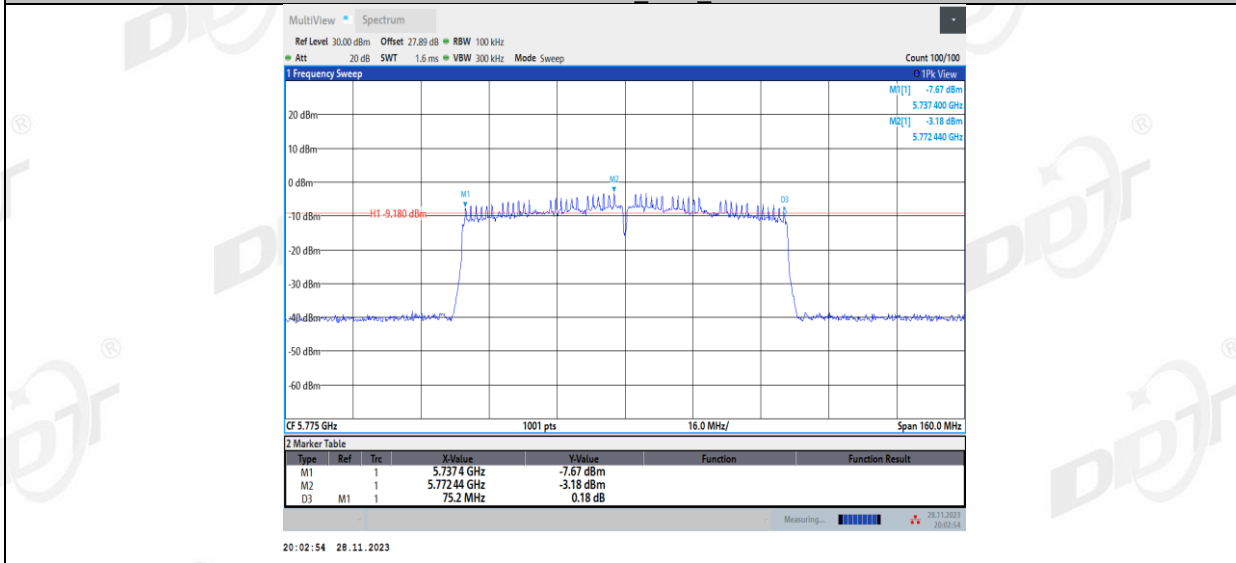
11AC40MIMO\_Ant1\_5795



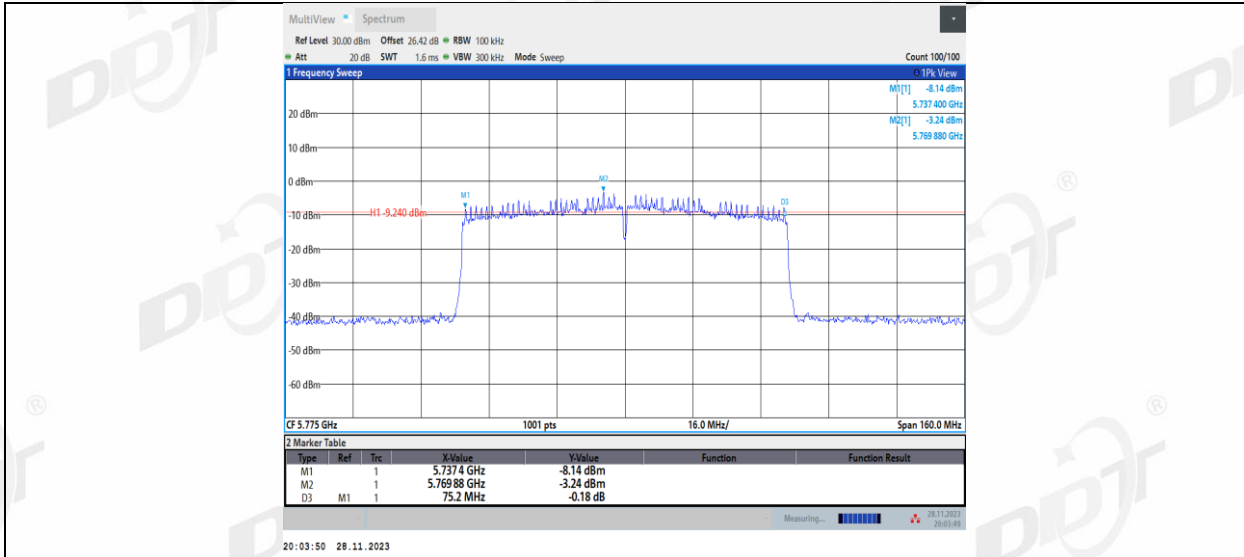
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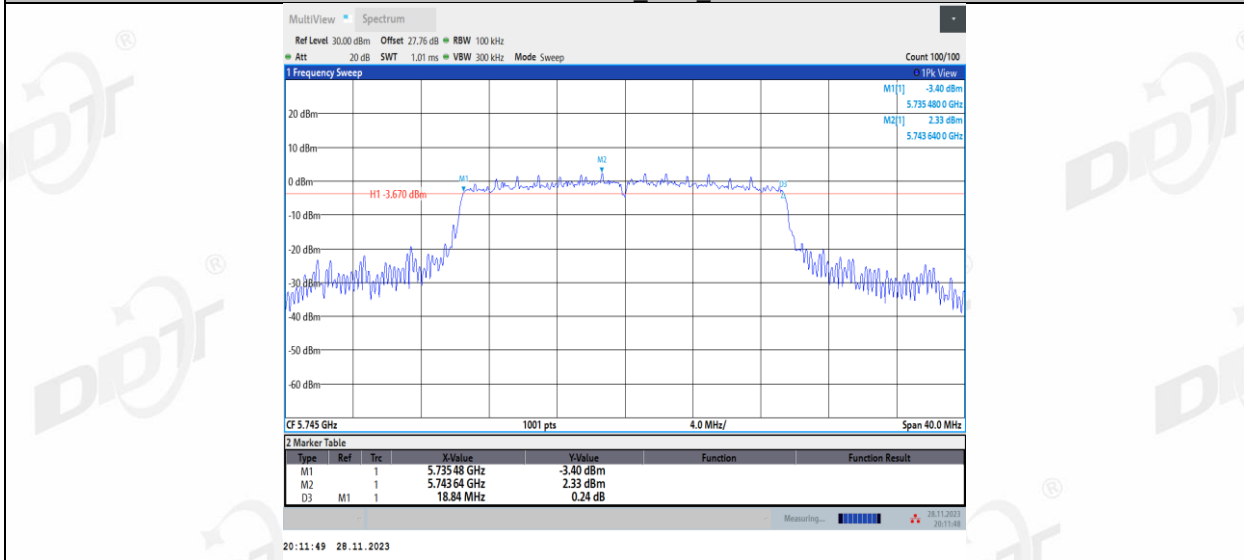
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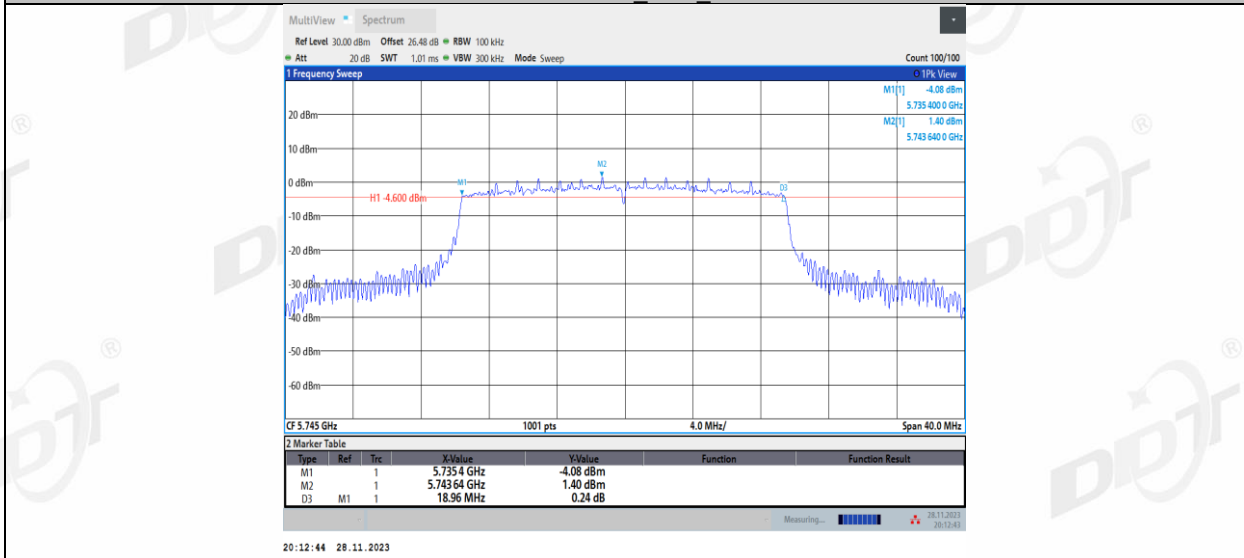
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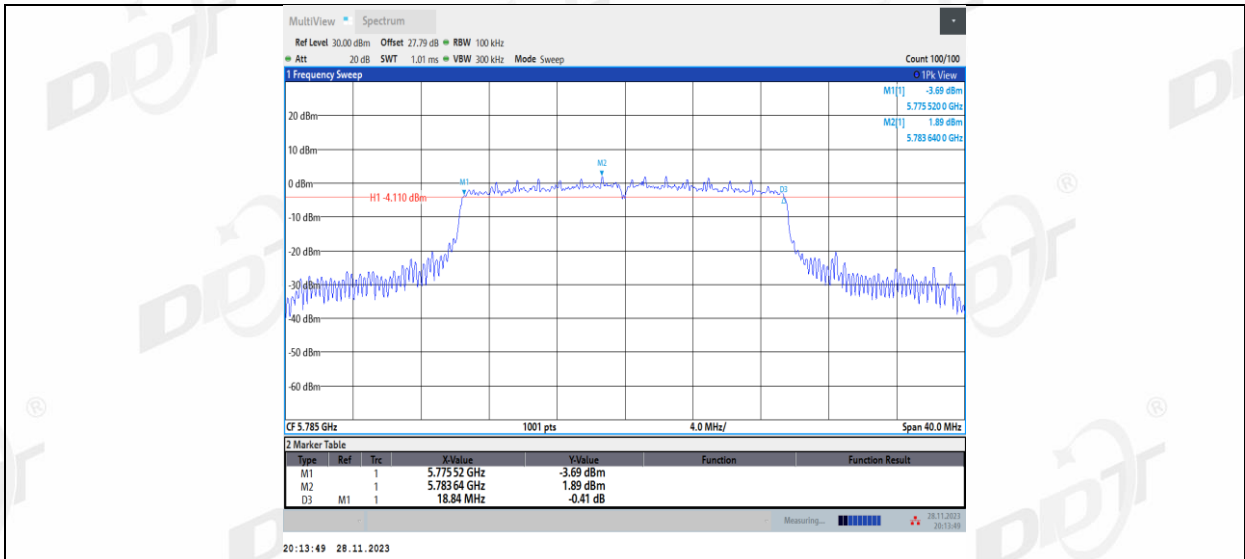
11AX20MIMO\_Ant1\_5745



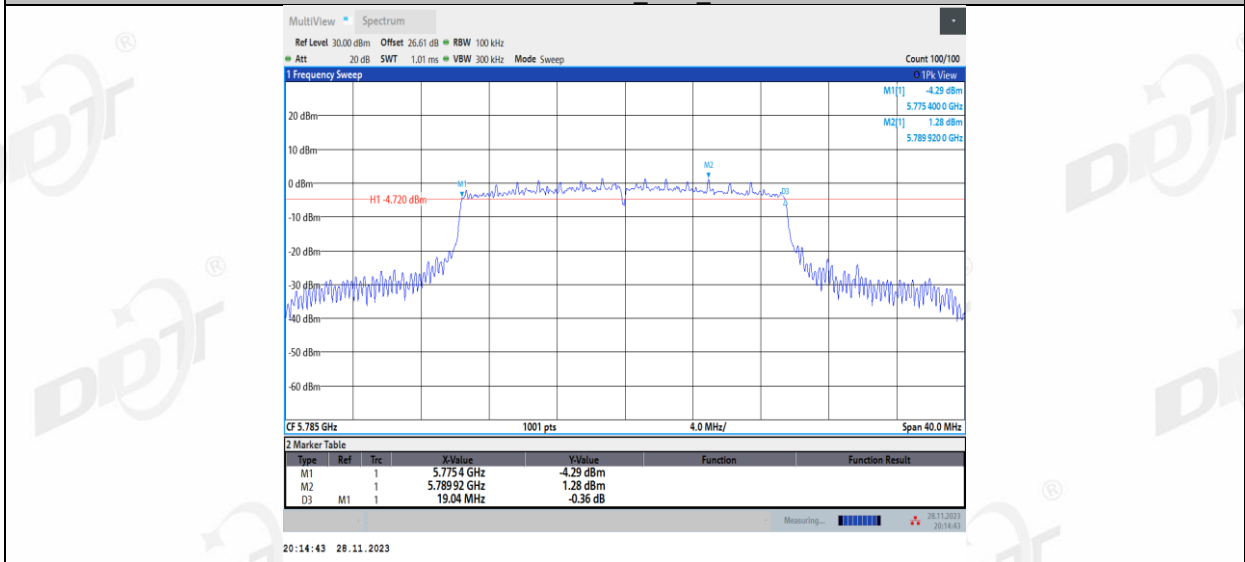
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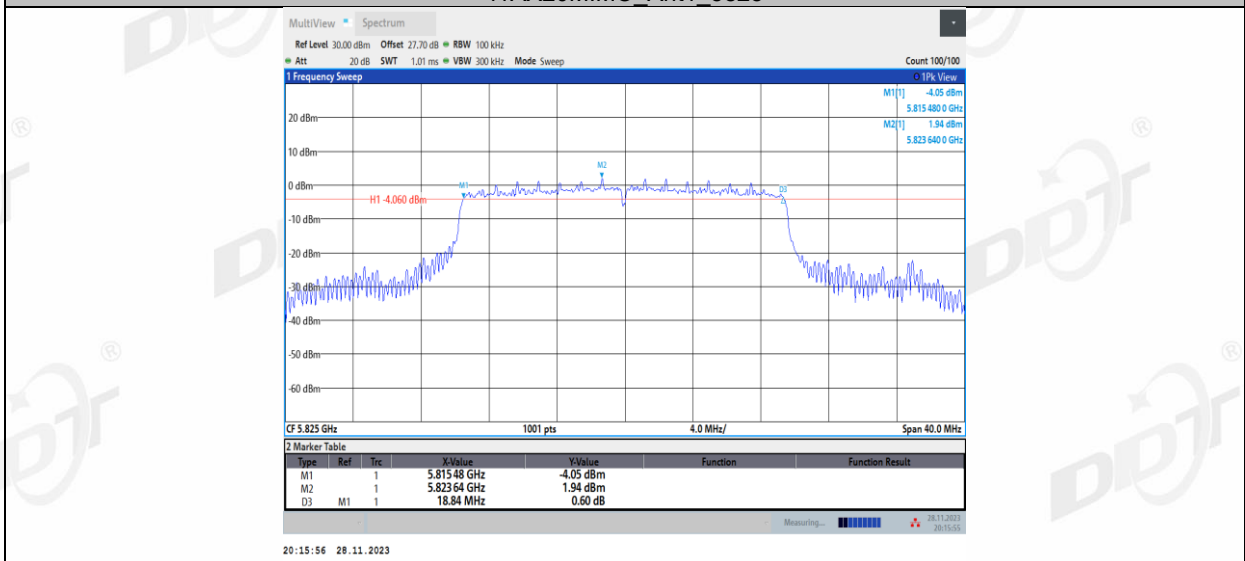
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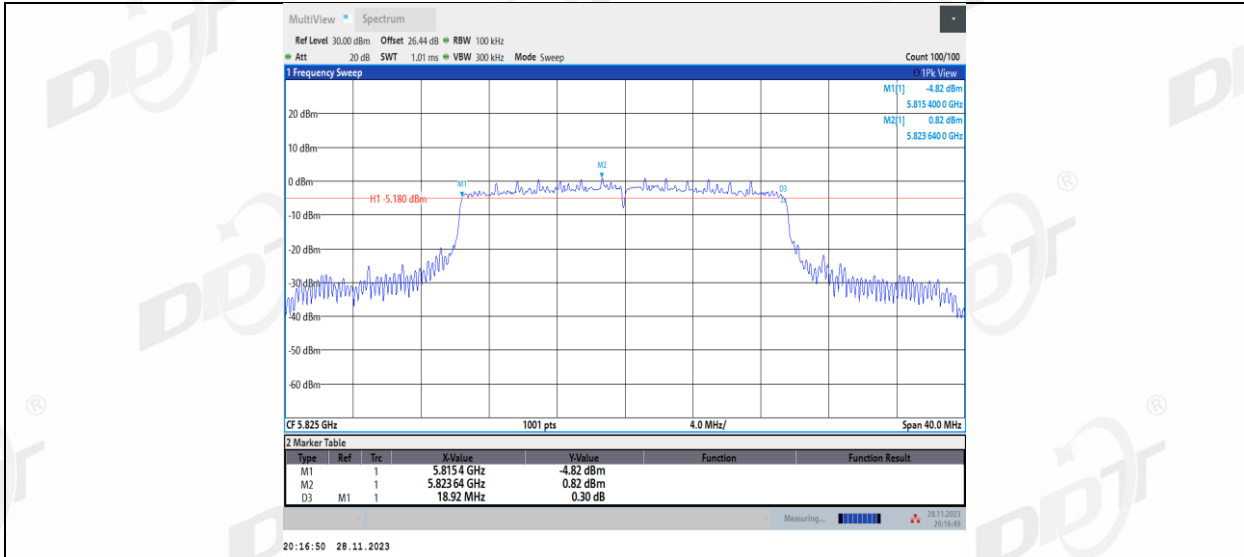
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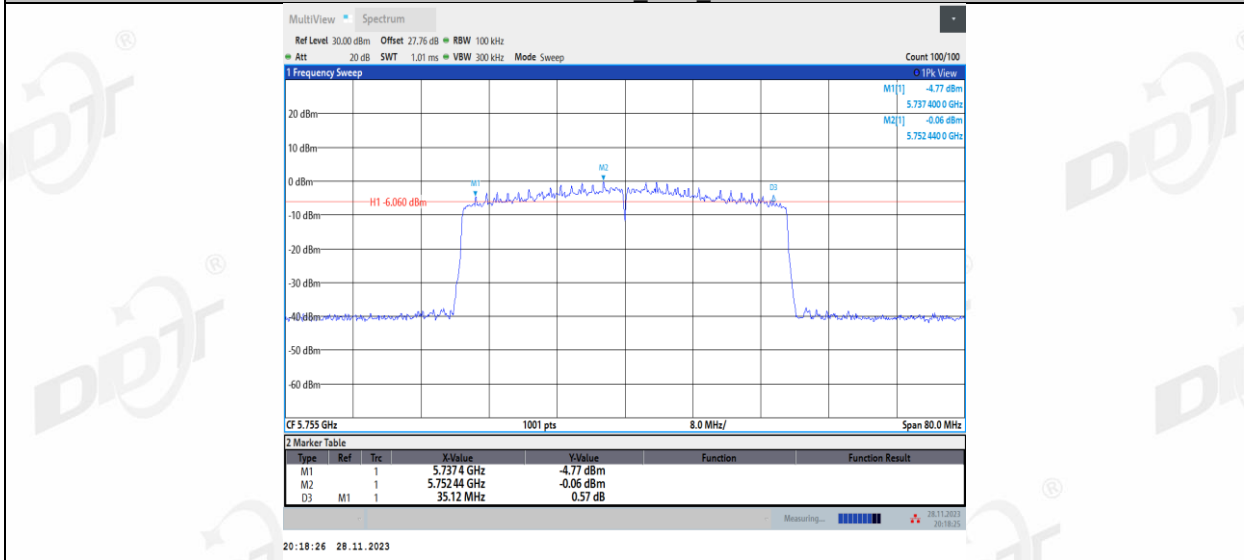
11AX20MIMO\_Ant1\_5825



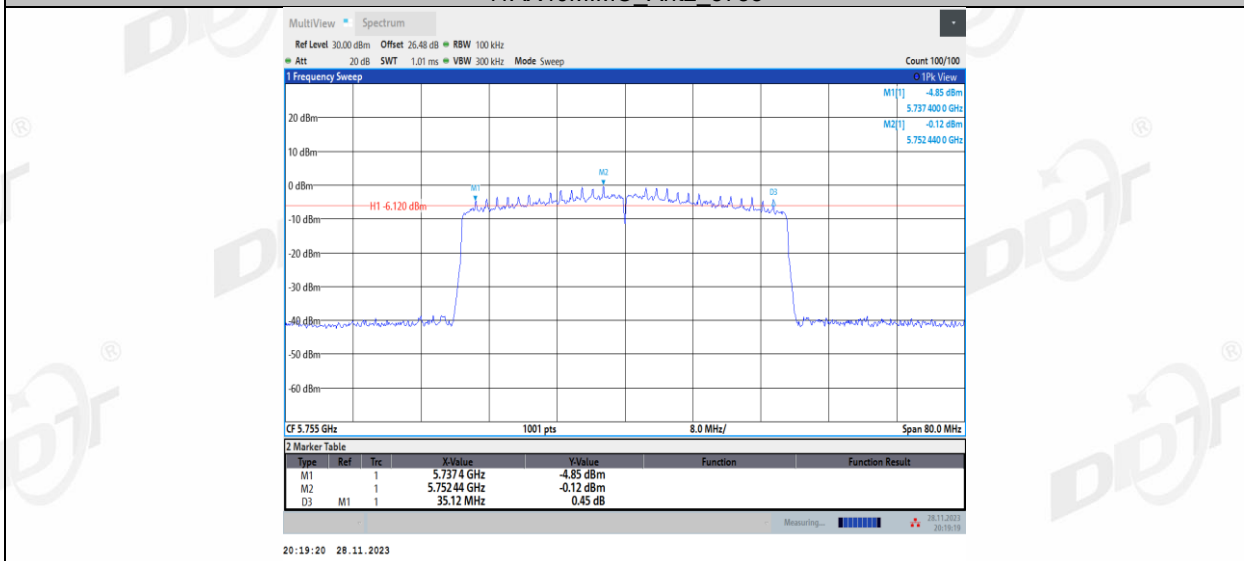
11AX20MIMO\_Ant2\_5825



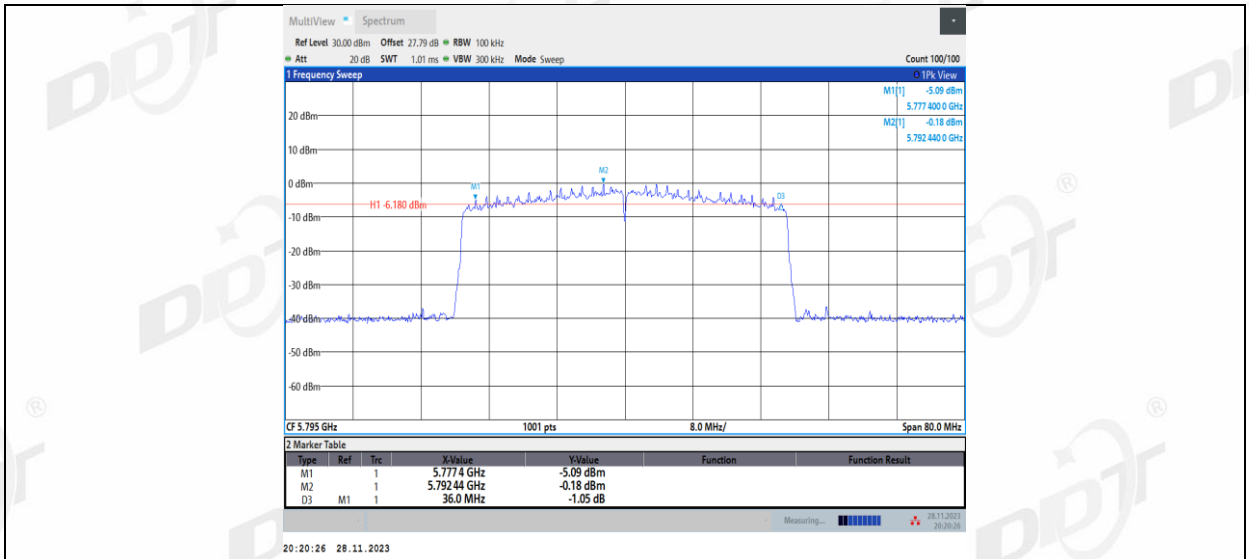
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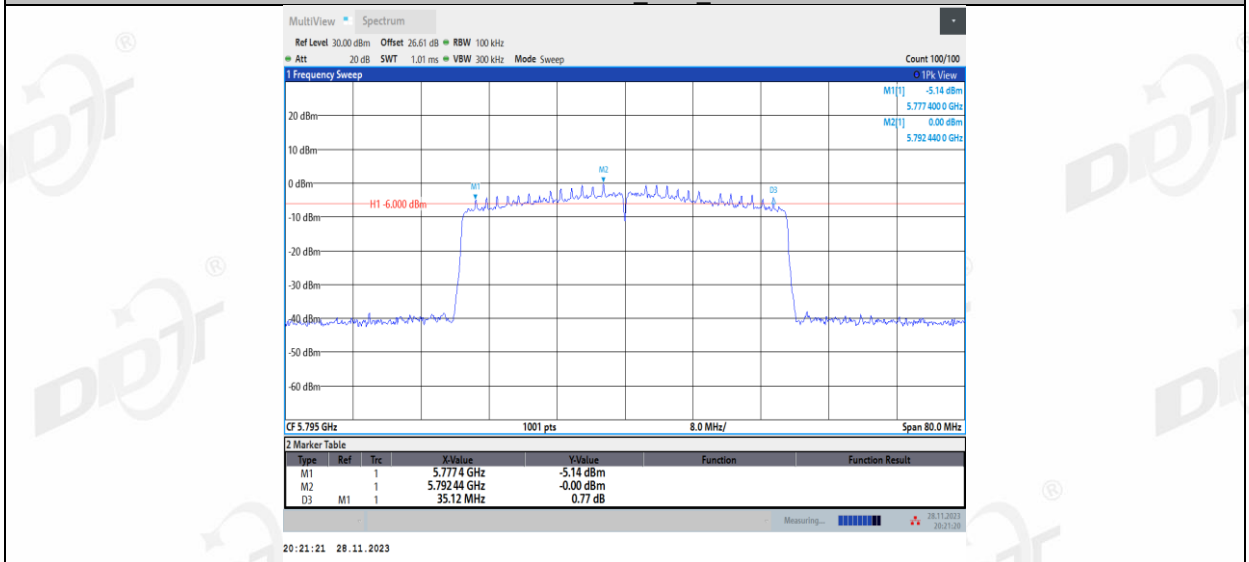
11AX40MIMO\_Ant2\_5755



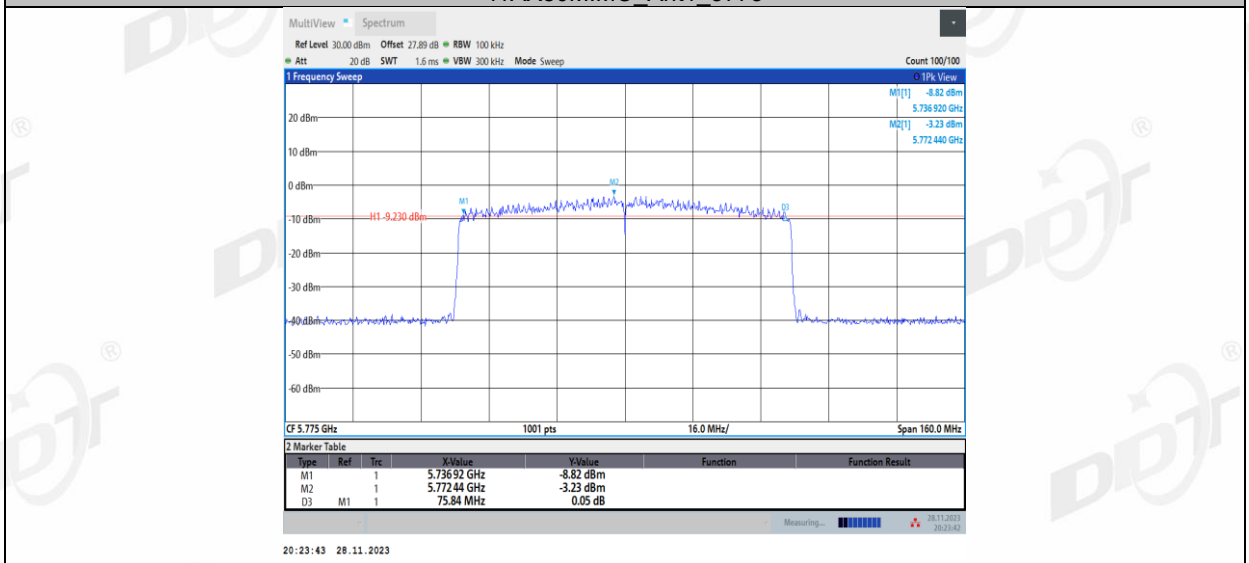
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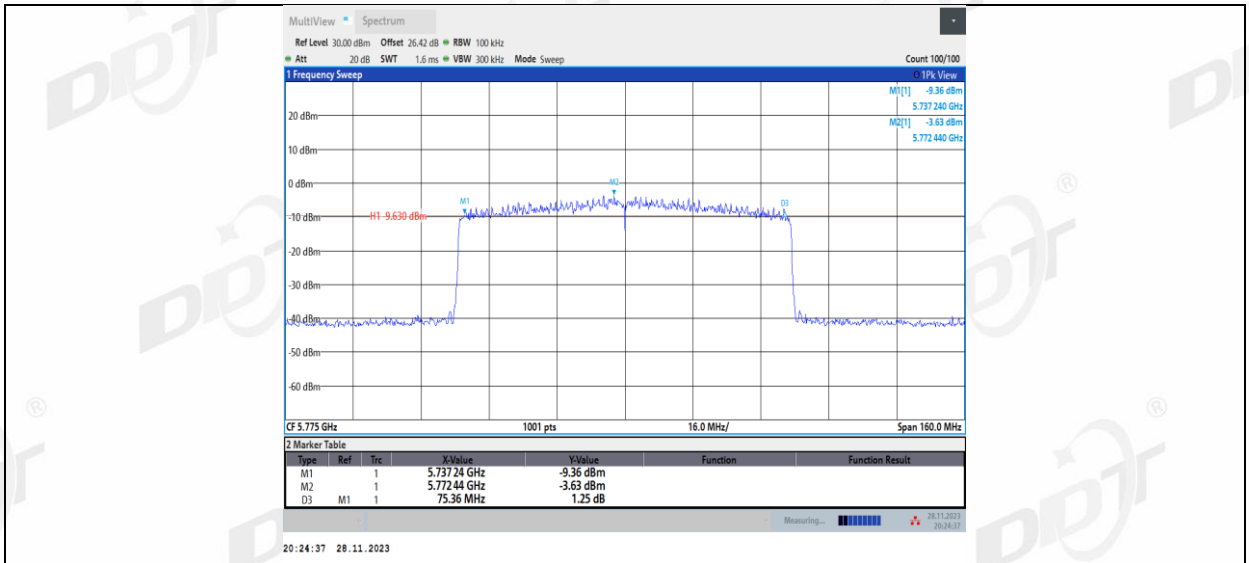
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11AX80MIMO\_Ant1\_5775

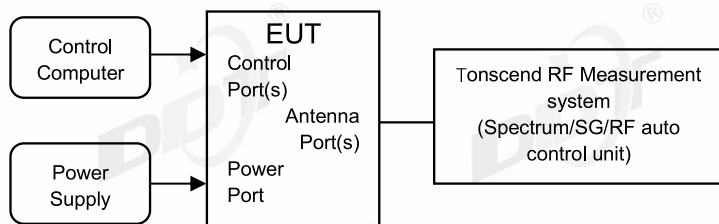


11AX80MIMO\_Ant2\_5775



## 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 Engineer:	Haofeng	Test Site:	RF Measurement System 4#
Ambient Condition:	20.4-25.1℃,32.2-50.2%RH	Test Date:	2023.11.25-2023.11.28/2024.02.01-2024.02.02
Test Power Supply:	Battery	EUT:	Wireless Speaker
Sample Number:	S23111312-01	Model No.:	BOOMBOX3 Wi-Fi

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict	
11A	Ant1	5180	19.238	5170.3093	5189.5474	---	---	
	Ant2	5180	19.25	5170.3476	5189.5980	---	---	
	Ant1	5200	19.229	5190.2228	5209.4518	---	---	
	Ant2	5200	19.142	5190.2950	5209.4371	---	---	
	Ant1	5240	17.148	5231.3596	5248.5072	---	---	
	Ant2	5240	17.161	5231.3297	5248.4907	---	---	
	Ant1	5260	19.207	5250.2747	5269.4816	---	---	
	Ant2	5260	19.198	5250.3285	5269.5269	---	---	
	Ant1	5280	19.154	5270.3123	5289.4663	---	---	
	Ant2	5280	19.112	5270.3467	5289.4585	---	---	
	Ant1	5320	19.168	5310.3282	5329.4961	---	---	
	Ant2	5320	19.236	5310.2347	5329.4706	---	---	
	Ant1	5500	19.289	5490.3108	5509.6001	---	---	
	Ant2	5500	19.269	5490.2800	5509.5490	---	---	
	Ant1	5580	19.25	5570.2754	5589.5252	---	---	
	Ant2	5580	19.24	5570.2704	5589.5109	---	---	
	Ant1	5700	19.184	5690.3102	5709.4937	---	---	
	Ant2	5700	19.121	5690.2737	5709.3944	---	---	
	Ant1	5720	19.26	5710.2362	5729.4966	---	---	
	Ant2	5720	19.277	5710.2375	5729.5147	---	---	
	Ant1	5720_UN II-2C	14.764	5710.2362	5725	---	---	
	Ant2	5720_UN II-2C	14.762	5710.2375	5725	---	---	
	Ant1	5720_UN II-3	4.497	5725	5729.4966	---	---	
	Ant2	5720_UN II-3	4.515	5725	5729.5147	---	---	
	Ant1	5745	19.049	5735.3593	5754.4078	---	---	
	Ant2	5745	19.148	5735.3117	5754.4599	---	---	
	Ant1	5785	19.204	5775.3155	5794.5194	---	---	
	Ant2	5785	19.147	5775.3900	5794.5368	---	---	
	Ant1	5825	19.214	5815.3137	5834.5274	---	---	
	Ant2	5825	19.306	5815.2456	5834.5519	---	---	
	11N20MIM O	Ant1	5180	20.171	5169.9086	5190.0797	---	---
		Ant2	5180	18.575	5170.6416	5189.2164	---	---
Ant1		5200	20.121	5189.8973	5210.0181	---	---	
Ant2		5200	18.567	5190.5450	5209.1122	---	---	
Ant1		5240	18.002	5230.9361	5248.9379	---	---	
Ant2		5240	17.738	5231.0659	5248.8043	---	---	
Ant1		5260	20.197	5249.8834	5270.0802	---	---	
Ant2		5260	18.557	5250.5780	5269.1354	---	---	
Ant1		5280	20.131	5269.9338	5290.0651	---	---	
Ant2		5280	18.577	5270.5429	5289.1200	---	---	
Ant1		5320	20.04	5309.9783	5330.0187	---	---	
Ant2		5320	18.599	5310.5237	5329.1223	---	---	
Ant1		5500	20.102	5489.9832	5510.0849	---	---	
Ant2		5500	18.571	5490.6127	5509.1835	---	---	
Ant1		5580	20.184	5569.9003	5590.0840	---	---	
Ant2		5580	18.526	5570.5649	5589.0911	---	---	
Ant1		5700	20.114	5689.9152	5710.0287	---	---	
Ant2		5700	18.517	5690.5957	5709.1125	---	---	
Ant1		5720	20.185	5709.8792	5730.0639	---	---	
Ant2		5720	18.639	5710.4991	5729.1384	---	---	

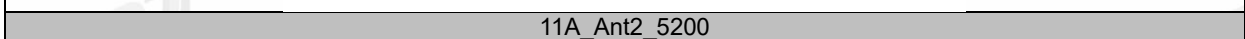
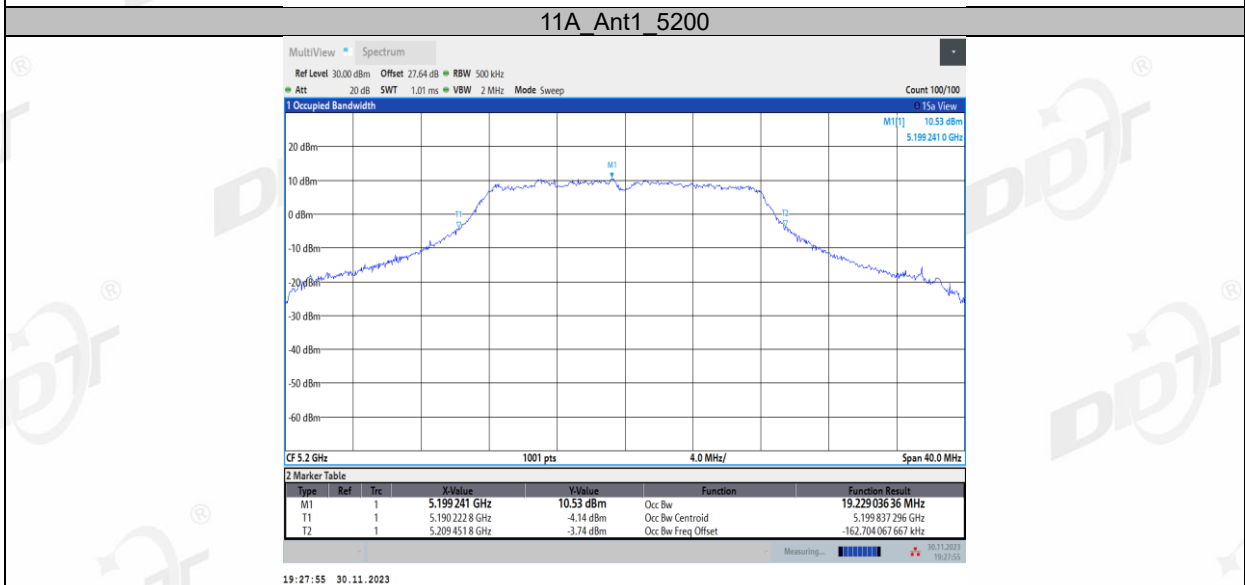
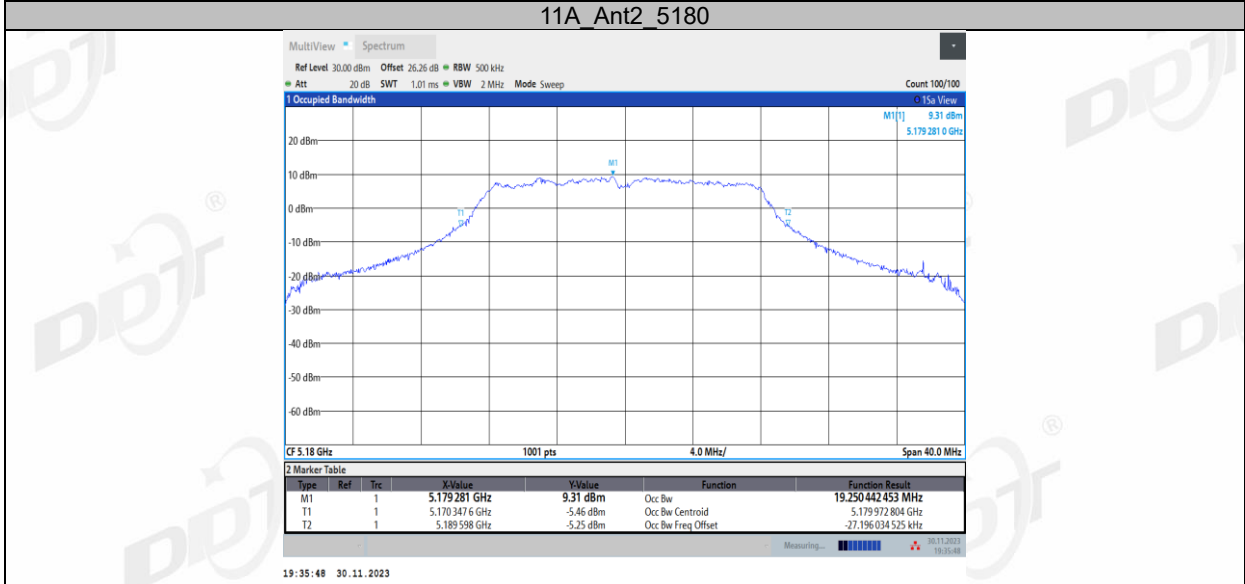
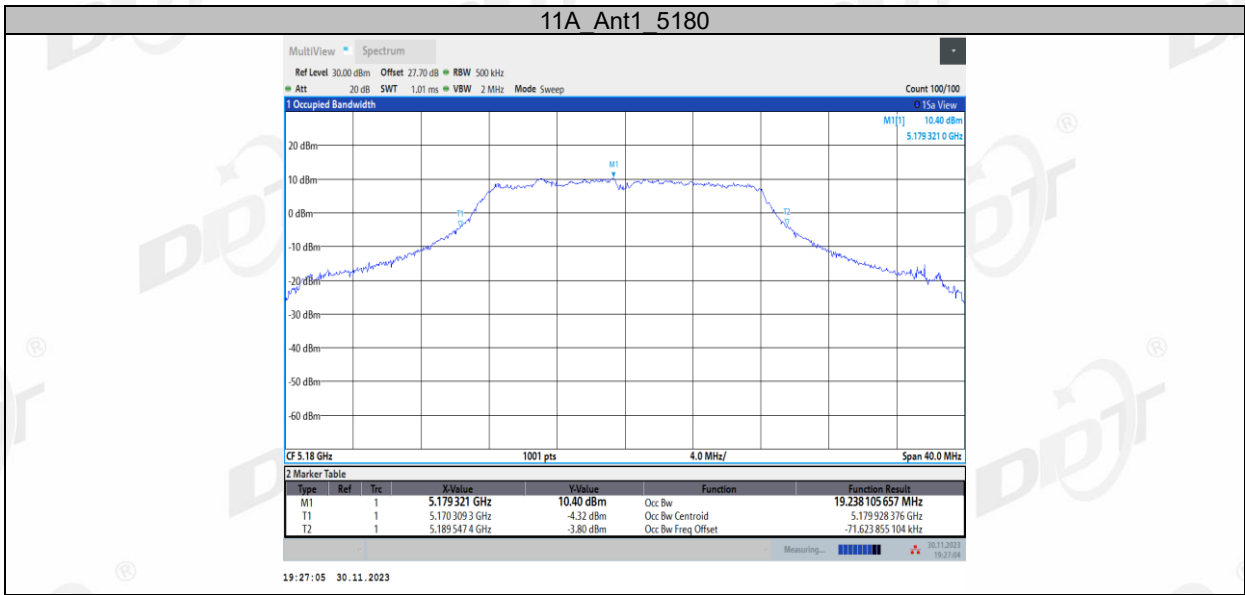
	Ant1	5720_UN II-2C	15.121	5709.8792	5725	---	---	
	Ant2	5720_UN II-2C	14.501	5710.4991	5725	---	---	
	Ant1	5720_UN II-3	5.064	5725	5730.0639	---	---	
	Ant2	5720_UN II-3	4.138	5725	5729.1384	---	---	
	Ant1	5745	19.977	5734.9713	5754.9480	---	---	
	Ant2	5745	18.537	5735.5489	5754.0863	---	---	
	Ant1	5785	20.073	5774.9409	5795.0137	---	---	
	Ant2	5785	18.505	5775.6066	5794.1112	---	---	
11N40MIM O	Ant1	5825	20.122	5814.9238	5835.0461	---	---	
	Ant2	5825	18.623	5815.5454	5834.1687	---	---	
	Ant1	5190	35.936	5171.9688	5207.9047	---	---	
	Ant2	5190	35.943	5171.9921	5207.9352	---	---	
	Ant1	5230	35.968	5212.0180	5247.9863	---	---	
	Ant2	5230	36.068	5211.9269	5247.9948	---	---	
	Ant1	5270	35.966	5251.9456	5287.9120	---	---	
	Ant2	5270	36.032	5251.8935	5287.9258	---	---	
	Ant1	5310	36.001	5291.9642	5327.9654	---	---	
	Ant2	5310	36.022	5291.9169	5327.9388	---	---	
	Ant1	5510	35.912	5492.0387	5527.9506	---	---	
	Ant2	5510	36.005	5491.9724	5527.9777	---	---	
	Ant1	5550	35.925	5531.9659	5567.8906	---	---	
	Ant2	5550	36.076	5531.8860	5567.9622	---	---	
	Ant1	5670	35.973	5651.9226	5687.8960	---	---	
	Ant2	5670	36.015	5651.9043	5687.9189	---	---	
	Ant1	5710	35.99	5691.9529	5727.9429	---	---	
	Ant2	5710	36.024	5691.8966	5727.9205	---	---	
	Ant1	5710_UN II-2C	33.047	5691.9529	5725	---	---	
	Ant2	5710_UN II-2C	33.103	5691.8966	5725	---	---	
	Ant1	5710_UN II-3	2.943	5725	5727.9429	---	---	
	Ant2	5710_UN II-3	2.921	5725	5727.9205	---	---	
	Ant1	5755	35.915	5736.9702	5772.8852	---	---	
	Ant2	5755	36.03	5736.8971	5772.9268	---	---	
	Ant1	5795	35.922	5776.9877	5812.9098	---	---	
	Ant2	5795	35.926	5776.9585	5812.8849	---	---	
	11AC20MI MO	Ant1	5180	19.862	5170.0395	5189.9013	---	---
		Ant2	5180	18.295	5170.9144	5189.2090	---	---
Ant1		5200	19.837	5189.9853	5209.8228	---	---	
Ant2		5200	18.283	5190.8233	5209.1068	---	---	
Ant1		5240	17.978	5230.9650	5248.9434	---	---	
Ant2		5240	17.601	5231.1478	5248.7488	---	---	
Ant1		5260	19.833	5250.0102	5269.8429	---	---	
Ant2		5260	18.213	5250.8857	5269.0989	---	---	
Ant1		5280	19.754	5270.0410	5289.7950	---	---	
Ant2		5280	18.182	5270.8778	5289.0594	---	---	
Ant1		5320	19.754	5310.0746	5329.8287	---	---	
Ant2		5320	18.293	5310.8311	5329.1240	---	---	
Ant1		5500	19.862	5490.0780	5509.9400	---	---	
Ant2		5500	18.341	5490.8649	5509.2054	---	---	
Ant1		5580	19.79	5570.0165	5589.8069	---	---	
Ant2		5580	18.212	5570.8780	5589.0904	---	---	
Ant1		5700	19.837	5690.0454	5709.8821	---	---	
Ant2		5700	18.284	5690.8501	5709.1338	---	---	
Ant1		5720	19.769	5710.0218	5729.7913	---	---	
Ant2		5720	18.227	5710.8705	5729.0973	---	---	
Ant1	5720_UN II-2C	14.978	5710.0218	5725	---	---		

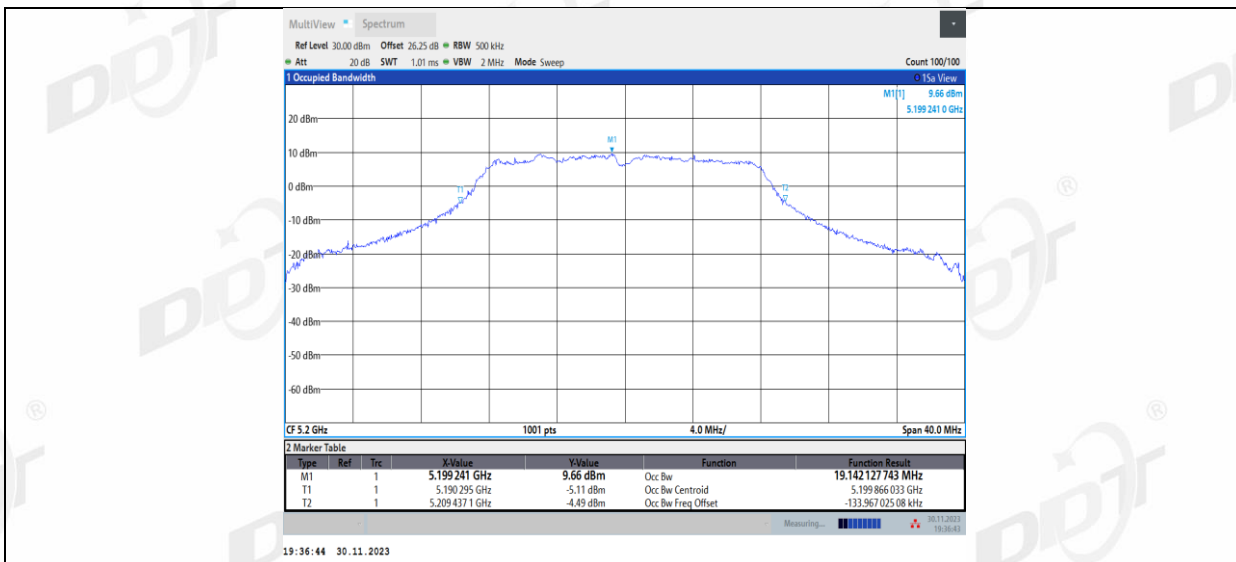
	Ant2	5720_UN II-2C	14.13	5710.8705	5725	---	---
	Ant1	5720_UN II-3	4.791	5725	5729.7913	---	---
	Ant2	5720_UN II-3	4.097	5725	5729.0973	---	---
	Ant1	5745	19.712	5735.0605	5754.7727	---	---
	Ant2	5745	18.158	5735.8862	5754.0439	---	---
	Ant1	5785	19.752	5775.0807	5794.8328	---	---
	Ant2	5785	18.204	5775.8983	5794.1018	---	---
	Ant1	5825	19.792	5815.0525	5834.8446	---	---
	Ant2	5825	18.23	5815.8771	5834.1076	---	---
11AC40MI MO	Ant1	5190	35.839	5172.0219	5207.8611	---	---
	Ant2	5190	36.096	5171.9416	5208.0374	---	---
	Ant1	5230	35.847	5212.0381	5247.8847	---	---
	Ant2	5230	36.177	5211.9024	5248.0790	---	---
	Ant1	5270	35.867	5252.0016	5287.8689	---	---
	Ant2	5270	36.165	5251.8679	5288.0327	---	---
	Ant1	5310	35.846	5292.0164	5327.8626	---	---
	Ant2	5310	36.077	5291.9244	5328.0017	---	---
	Ant1	5510	35.865	5492.0384	5527.9034	---	---
	Ant2	5510	36.074	5491.9514	5528.0252	---	---
	Ant1	5550	35.865	5531.9876	5567.8521	---	---
	Ant2	5550	36.157	5531.8918	5568.0484	---	---
	Ant1	5670	35.906	5651.9419	5687.8474	---	---
	Ant2	5670	36.149	5651.8475	5687.9966	---	---
	Ant1	5710	35.86	5691.9829	5727.8433	---	---
	Ant2	5710	36.117	5691.8789	5727.9964	---	---
	Ant1	5710_UN II-2C	33.017	5691.9829	5725	---	---
	Ant2	5710_UN II-2C	33.121	5691.8789	5725	---	---
	Ant1	5710_UN II-3	2.843	5725	5727.8433	---	---
	Ant2	5710_UN II-3	2.996	5725	5727.9964	---	---
	Ant1	5755	35.886	5736.9901	5772.8762	---	---
	Ant2	5755	36.139	5736.8714	5773.0099	---	---
	Ant1	5795	35.812	5777.0248	5812.8363	---	---
	Ant2	5795	36.041	5776.9232	5812.9643	---	---
11AC80MI MO	Ant1	5210	75.218	5172.3713	5247.5898	---	---
	Ant2	5210	74.999	5172.5186	5247.5172	---	---
	Ant1	5290	75.428	5252.1958	5327.6239	---	---
	Ant2	5290	75.155	5252.4245	5327.5796	---	---
	Ant1	5530	75.181	5492.3643	5567.5451	---	---
	Ant2	5530	74.986	5492.5391	5567.5248	---	---
	Ant1	5610	75.332	5572.2523	5647.5844	---	---
	Ant2	5610	75.223	5572.3780	5647.6011	---	---
	Ant1	5690	75.367	5652.1595	5727.5269	---	---
	Ant2	5690	75.133	5652.3413	5727.4742	---	---
	Ant1	5690_UN II-2C	72.841	5652.1595	5725	---	---
	Ant2	5690_UN II-2C	72.659	5652.3413	5725	---	---
	Ant1	5690_UN II-3	2.527	5725	5727.5269	---	---
	Ant2	5690_UN II-3	2.474	5725	5727.4742	---	---
	Ant1	5775	75.195	5737.2654	5812.4604	---	---
	Ant2	5775	75.065	5737.3615	5812.4266	---	---
	11AX20MI MO	Ant1	5180	19.403	5170.2321	5189.6346	---
Ant2		5180	19.324	5170.2871	5189.6108	---	---
Ant1		5200	19.377	5190.2697	5209.6464	---	---
Ant2		5200	19.319	5190.2821	5209.6006	---	---

	Ant1	5240	18.906	5230.4854	5249.3918	---	---	
	Ant2	5240	18.898	5230.5005	5249.3988	---	---	
	Ant1	5260	19.362	5250.2624	5269.6249	---	---	
	Ant2	5260	19.31	5250.2899	5269.5999	---	---	
	Ant1	5280	19.352	5270.2609	5289.6125	---	---	
	Ant2	5280	19.321	5270.2805	5289.6017	---	---	
	Ant1	5320	19.38	5310.2660	5329.6456	---	---	
	Ant2	5320	19.312	5310.2691	5329.5811	---	---	
	Ant1	5500	19.404	5490.2556	5509.6596	---	---	
	Ant2	5500	19.317	5490.2981	5509.6147	---	---	
	Ant1	5580	19.414	5570.2298	5589.6435	---	---	
	Ant2	5580	19.321	5570.2633	5589.5841	---	---	
	Ant1	5700	19.37	5690.2539	5709.6238	---	---	
	Ant2	5700	19.298	5690.2781	5709.5759	---	---	
	Ant1	5720	19.381	5710.2269	5729.6084	---	---	
	Ant2	5720	19.318	5710.2684	5729.5860	---	---	
	Ant1	5720_UN II-2C	14.773	5710.2269	5725	---	---	
	Ant2	5720_UN II-2C	14.732	5710.2684	5725	---	---	
	Ant1	5720_UN II-3	4.608	5725	5729.6084	---	---	
	Ant2	5720_UN II-3	4.586	5725	5729.5860	---	---	
	Ant1	5745	19.355	5735.2460	5754.6012	---	---	
	Ant2	5745	19.299	5735.2950	5754.5943	---	---	
	Ant1	5785	19.356	5775.2851	5794.6415	---	---	
	Ant2	5785	19.305	5775.3160	5794.6207	---	---	
	Ant1	5825	19.399	5815.2530	5834.6524	---	---	
	Ant2	5825	19.294	5815.2694	5834.5629	---	---	
11AX40MI MO	Ant1	5190	37.61	5171.1398	5208.7501	---	---	
	Ant2	5190	37.599	5171.1487	5208.7481	---	---	
	Ant1	5230	37.633	5211.1373	5248.7699	---	---	
	Ant2	5230	37.678	5211.1194	5248.7971	---	---	
	Ant1	5270	37.603	5251.1386	5288.7415	---	---	
	Ant2	5270	37.622	5251.1272	5288.7490	---	---	
	Ant1	5310	37.632	5291.1041	5328.7363	---	---	
	Ant2	5310	37.659	5291.1048	5328.7643	---	---	
	Ant1	5510	37.6	5491.1447	5528.7451	---	---	
	Ant2	5510	37.543	5491.2019	5528.7446	---	---	
	Ant1	5550	37.689	5531.0708	5568.7600	---	---	
	Ant2	5550	37.636	5531.1214	5568.7576	---	---	
	Ant1	5670	37.674	5651.0883	5688.7627	---	---	
	Ant2	5670	37.696	5651.0896	5688.7855	---	---	
	Ant1	5710	37.577	5691.1306	5728.7076	---	---	
	Ant2	5710	37.652	5691.1033	5728.7553	---	---	
		Ant1	5710_UN II-2C	33.869	5691.1306	5725	---	---
		Ant2	5710_UN II-2C	33.897	5691.1033	5725	---	---
		Ant1	5710_UN II-3	3.708	5725	5728.7076	---	---
		Ant2	5710_UN II-3	3.755	5725	5728.7553	---	---
		Ant1	5755	37.617	5736.1028	5773.7203	---	---
		Ant2	5755	37.616	5736.0995	5773.7151	---	---
		Ant1	5795	37.64	5776.0849	5813.7249	---	---
		Ant2	5795	37.559	5776.1351	5813.6944	---	---
11AX80MI MO	Ant1	5210	75.266	5172.3316	5247.5979	---	---	
	Ant2	5210	75.01	5172.5292	5247.5389	---	---	
	Ant1	5290	75.291	5252.2926	5327.5832	---	---	
	Ant2	5290	75.055	5252.4427	5327.4977	---	---	
	Ant1	5530	75.225	5492.3226	5567.5473	---	---	
	Ant2	5530	75.016	5492.5166	5567.5325	---	---	

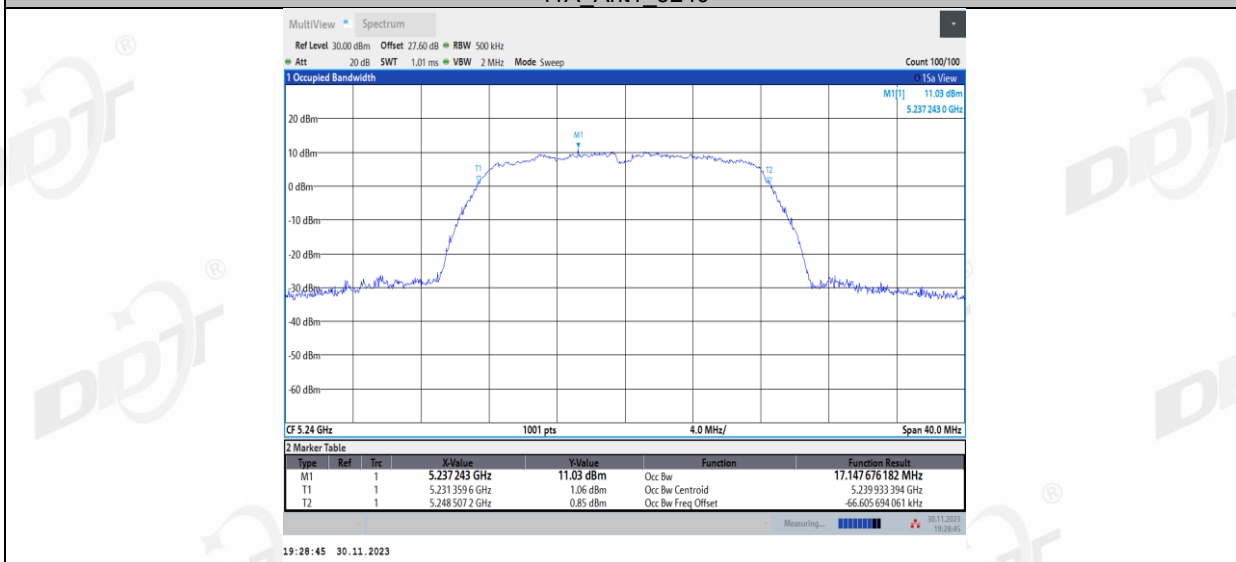
Ant1	5610	75.222	5572.3255	5647.5477	---	---
Ant2	5610	75.217	5572.4023	5647.6191	---	---
Ant1	5690	75.347	5652.2223	5727.5693	---	---
Ant2	5690	75.132	5652.3508	5727.4823	---	---
Ant1	5690_UN II-2C	72.778	5652.2223	5725	---	---
Ant2	5690_UN II-2C	72.649	5652.3508	5725	---	---
Ant1	5690_UN II-3	2.569	5725	5727.5693	---	---
Ant2	5690_UN II-3	2.482	5725	5727.4823	---	---
Ant1	5775	77.039	5736.3458	5813.3844	---	---
Ant2	5775	77.104	5736.3035	5813.4074	---	---

### 6.5. Test graphs

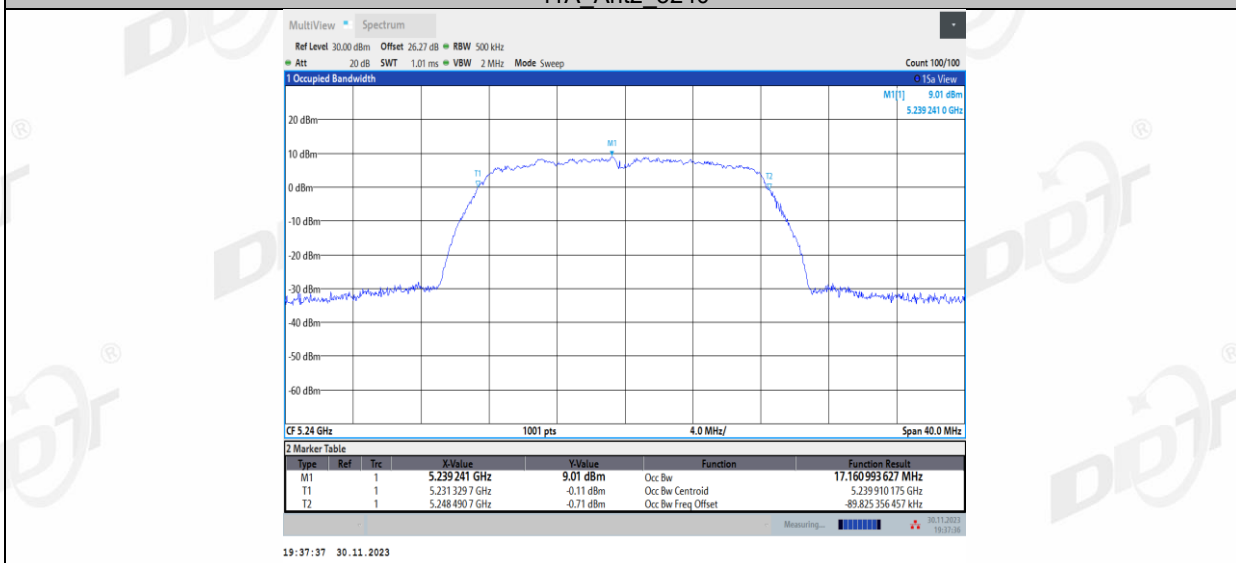




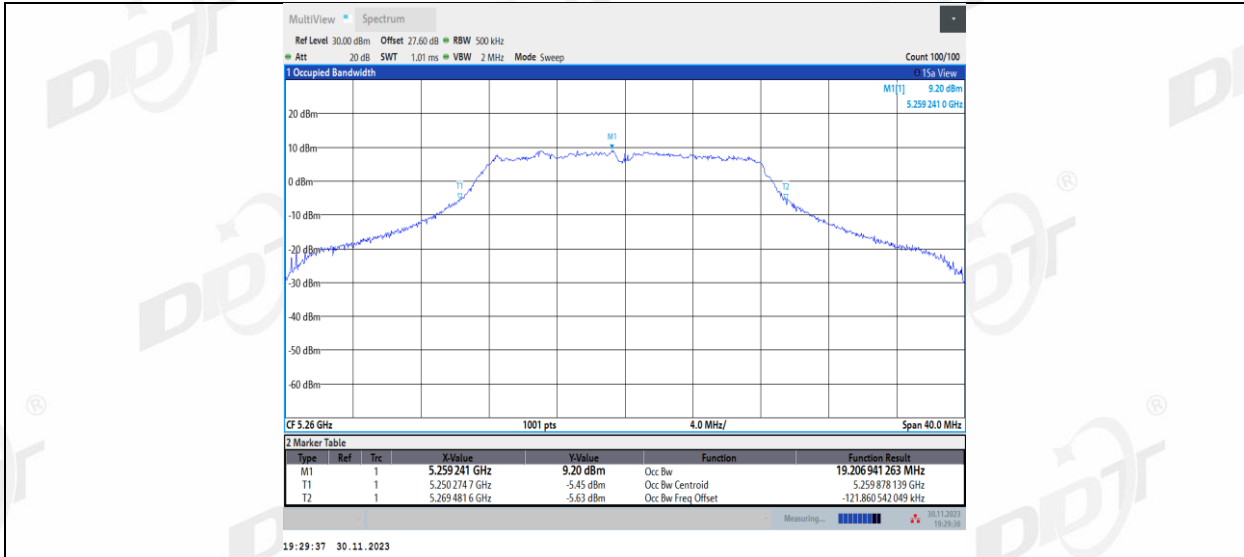
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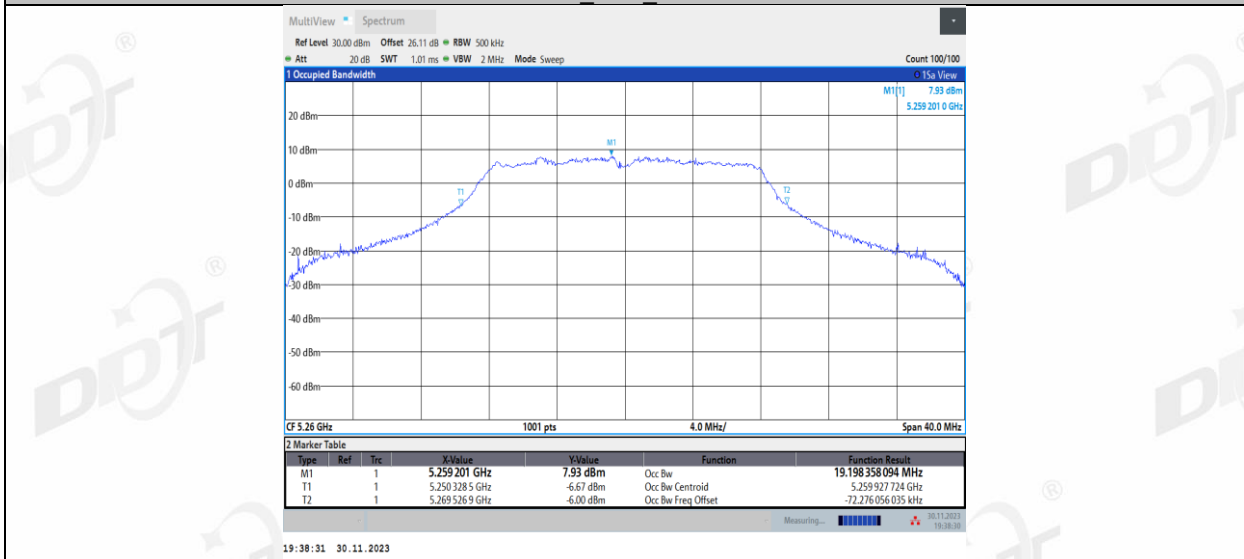
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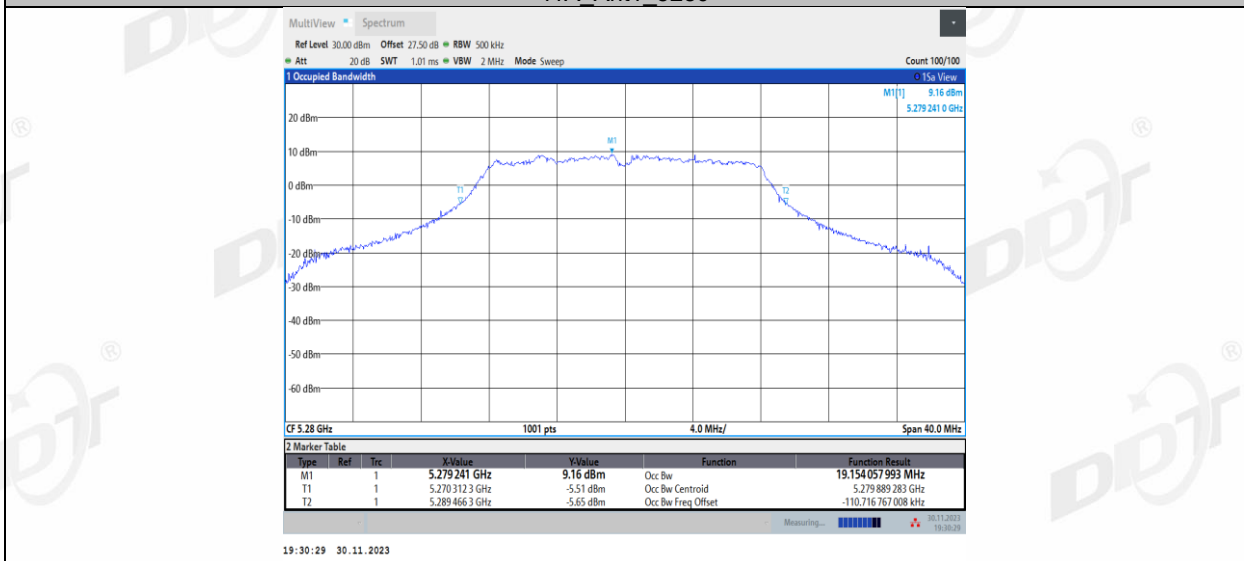
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11A\_Ant2\_5260

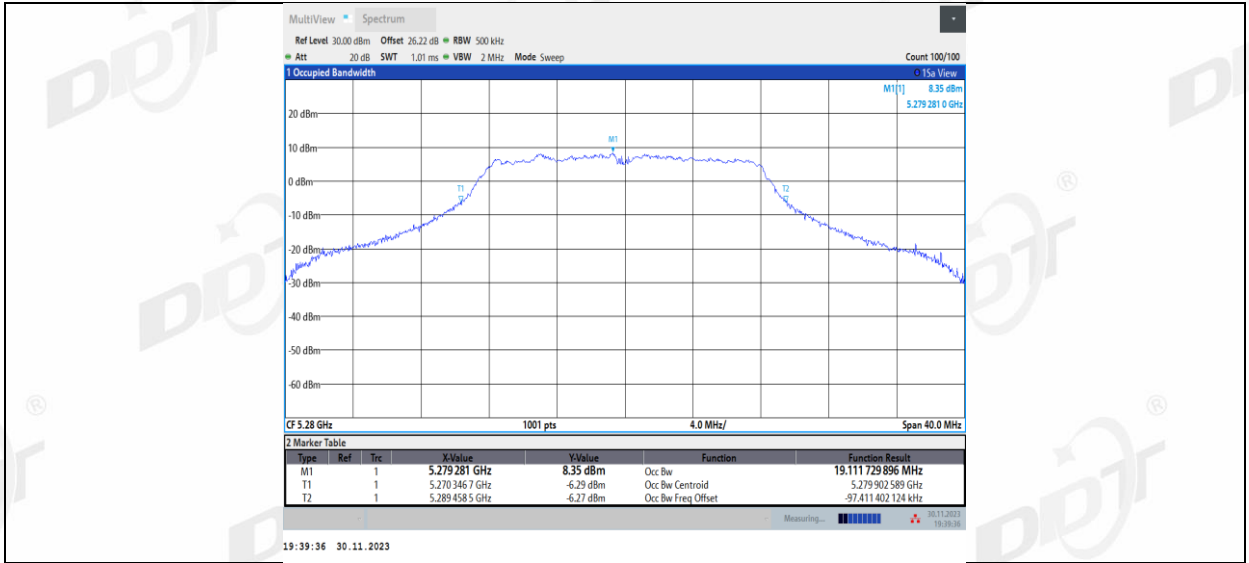


11A\_Ant1\_5280

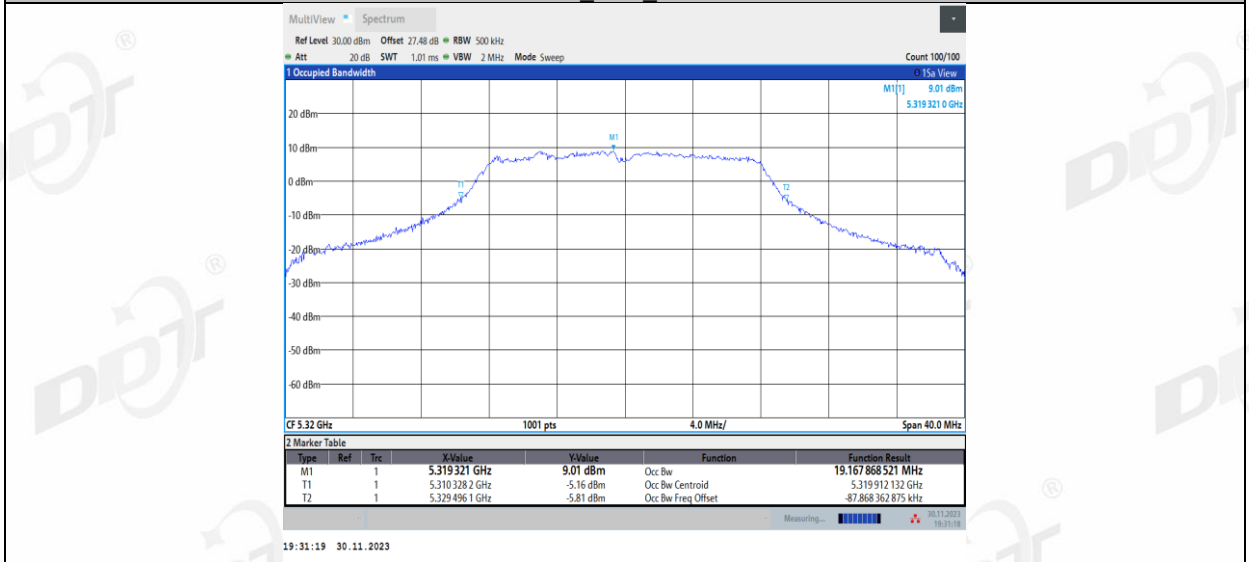


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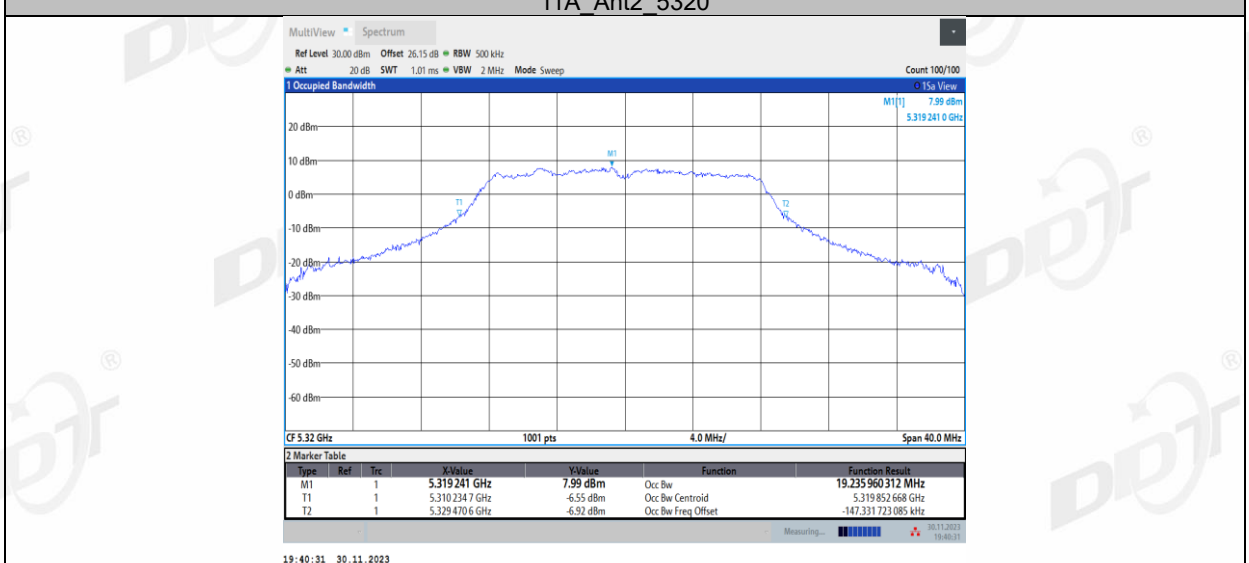




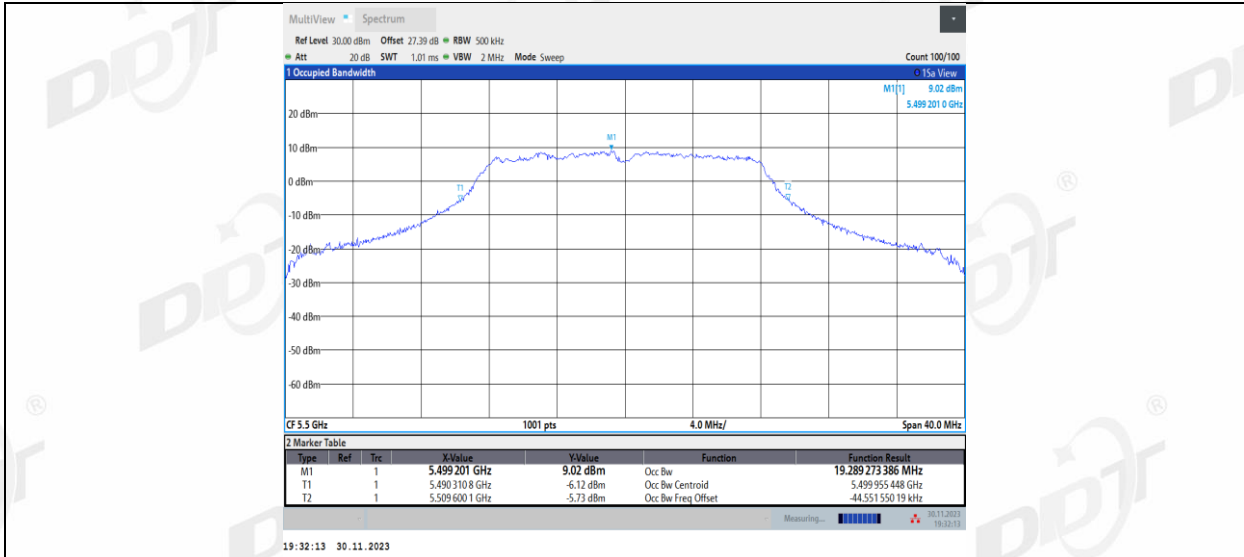
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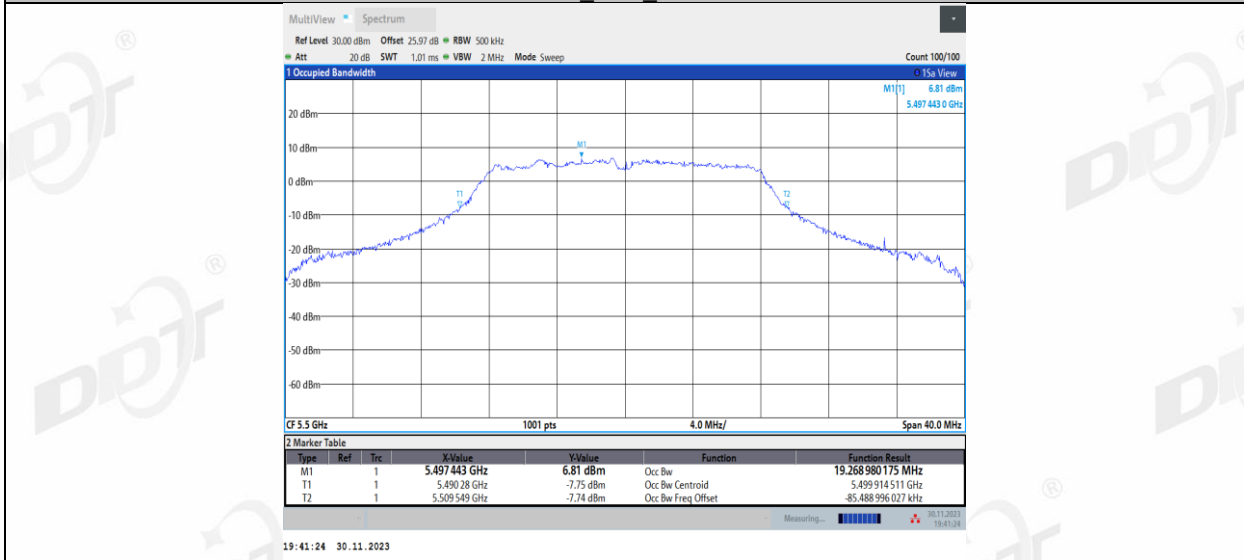
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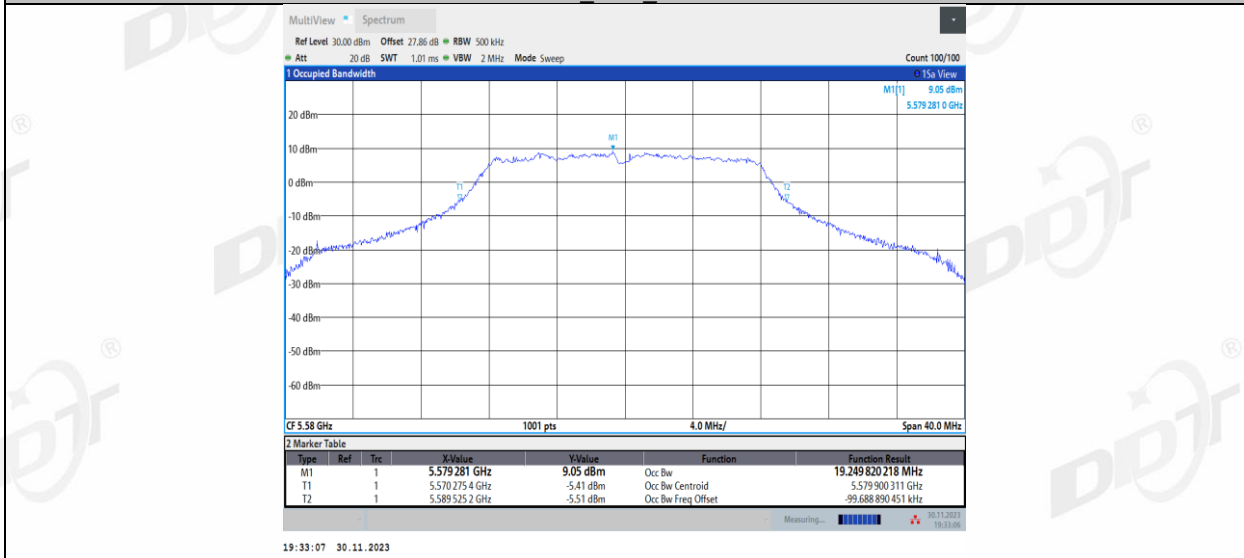
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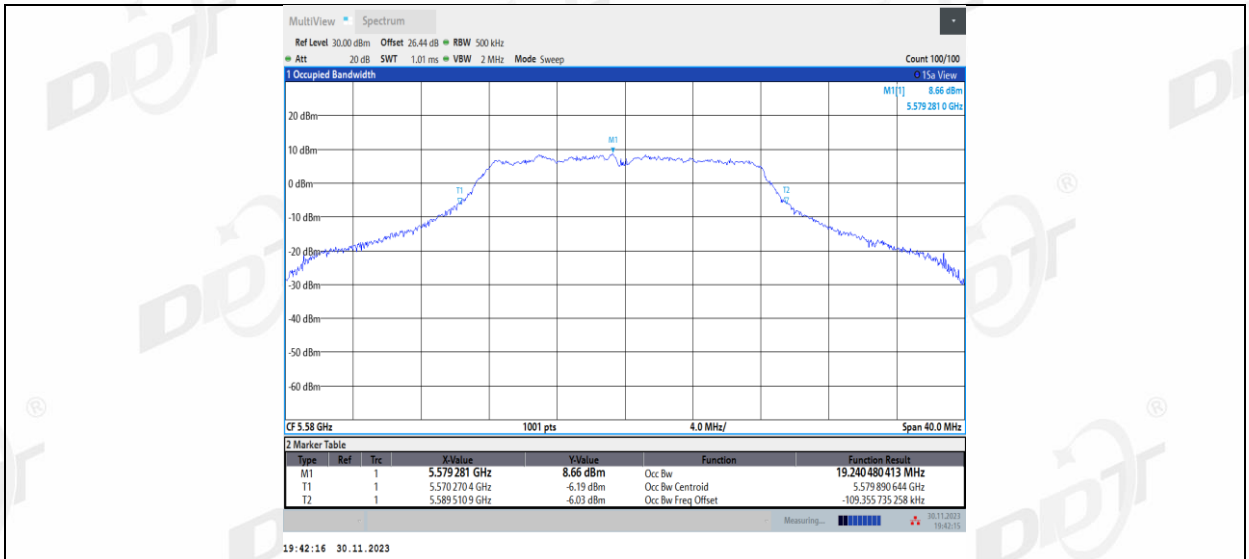
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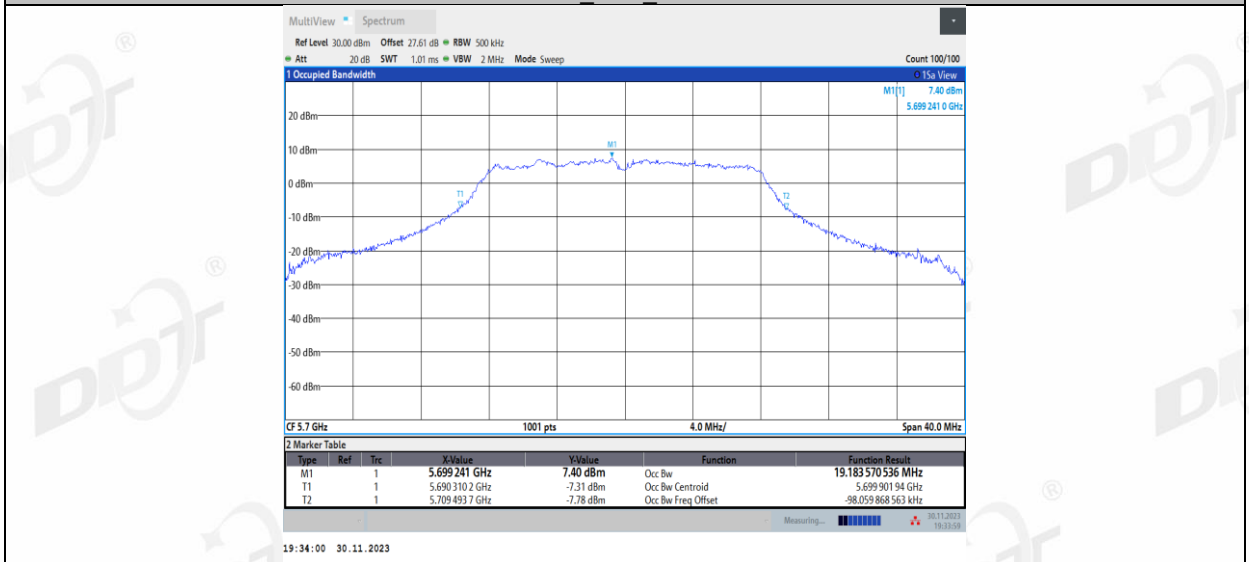
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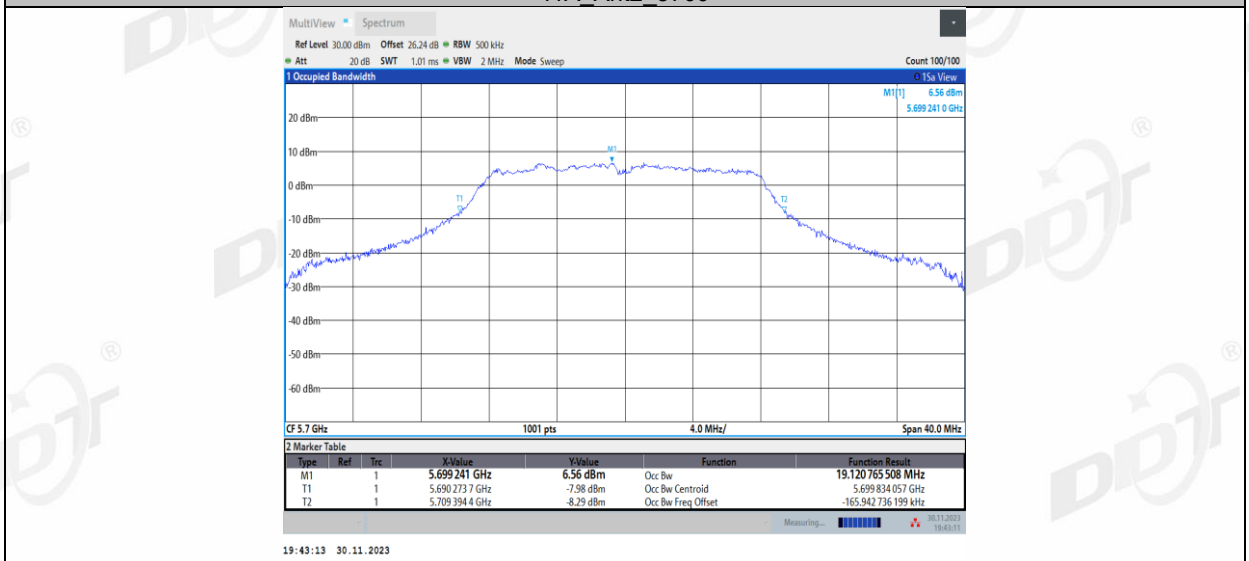
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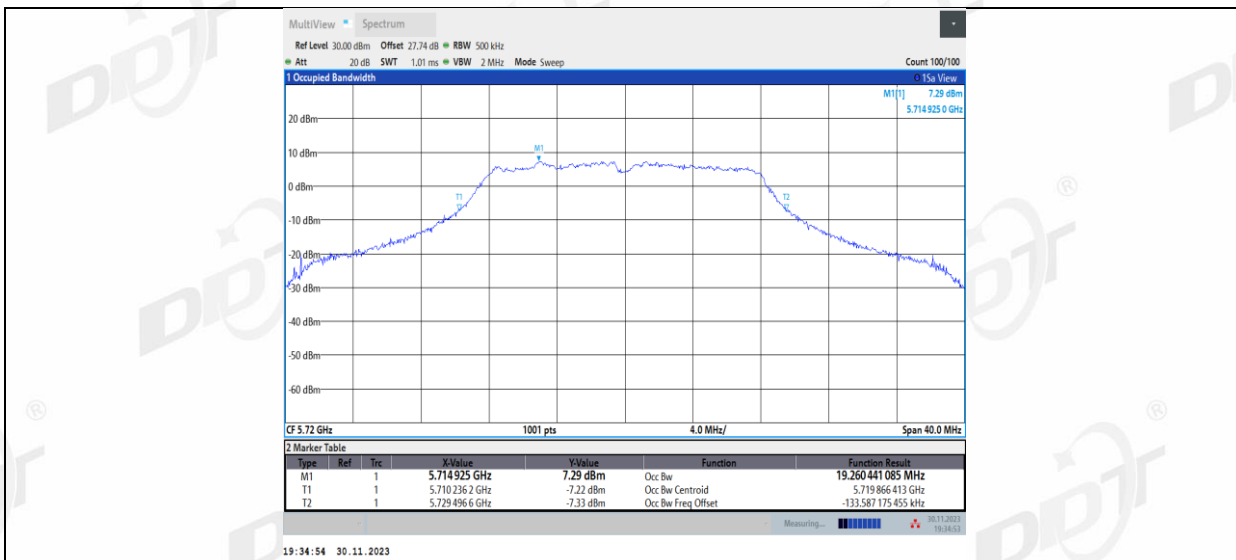
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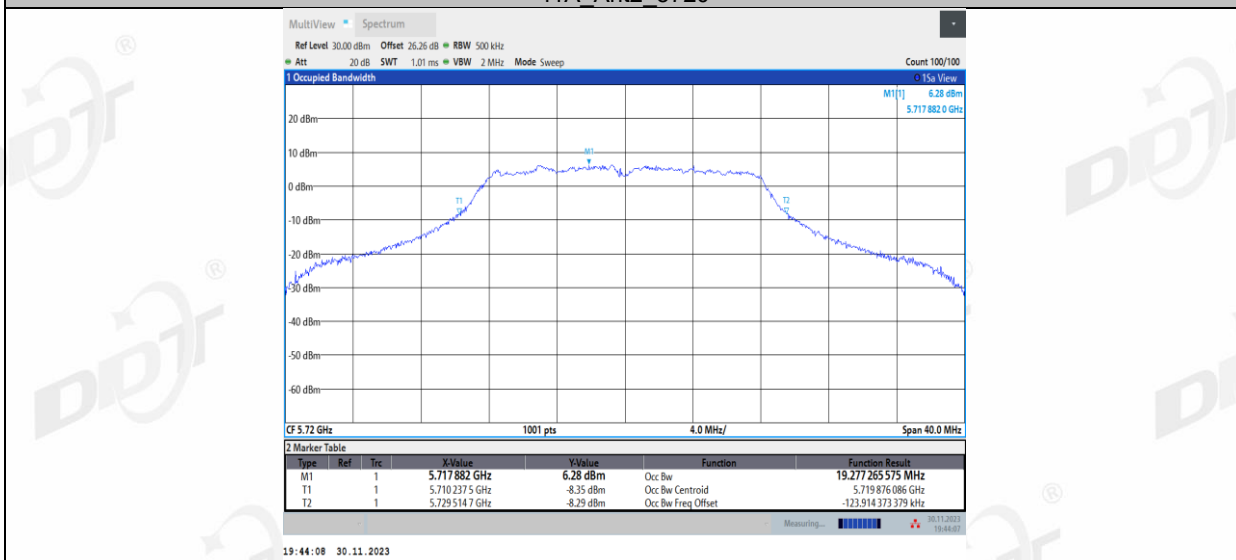
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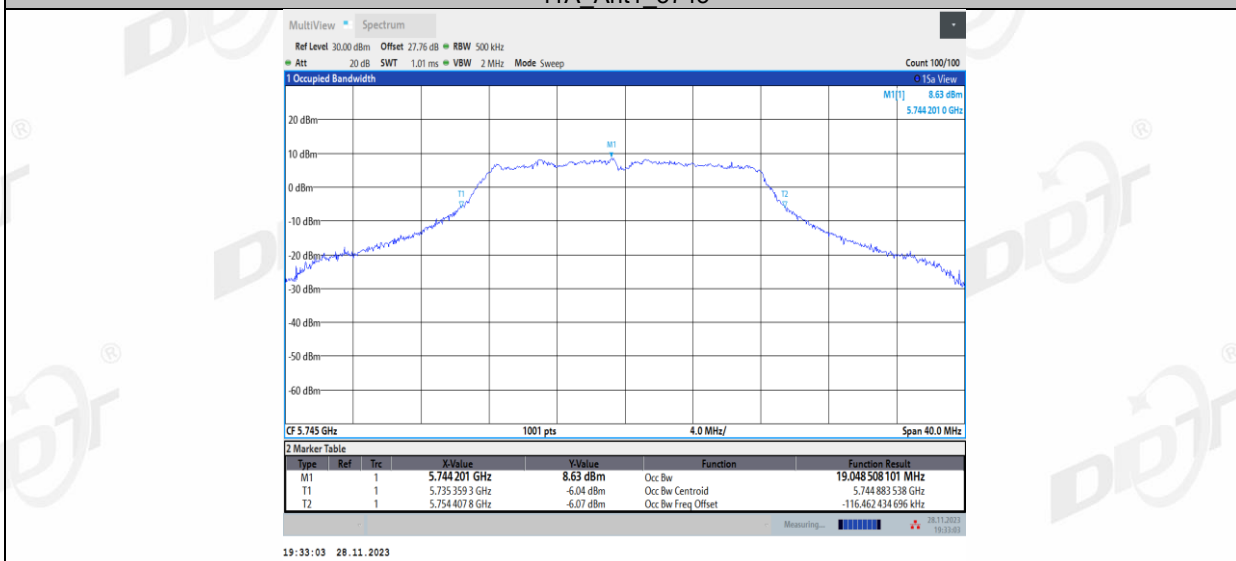
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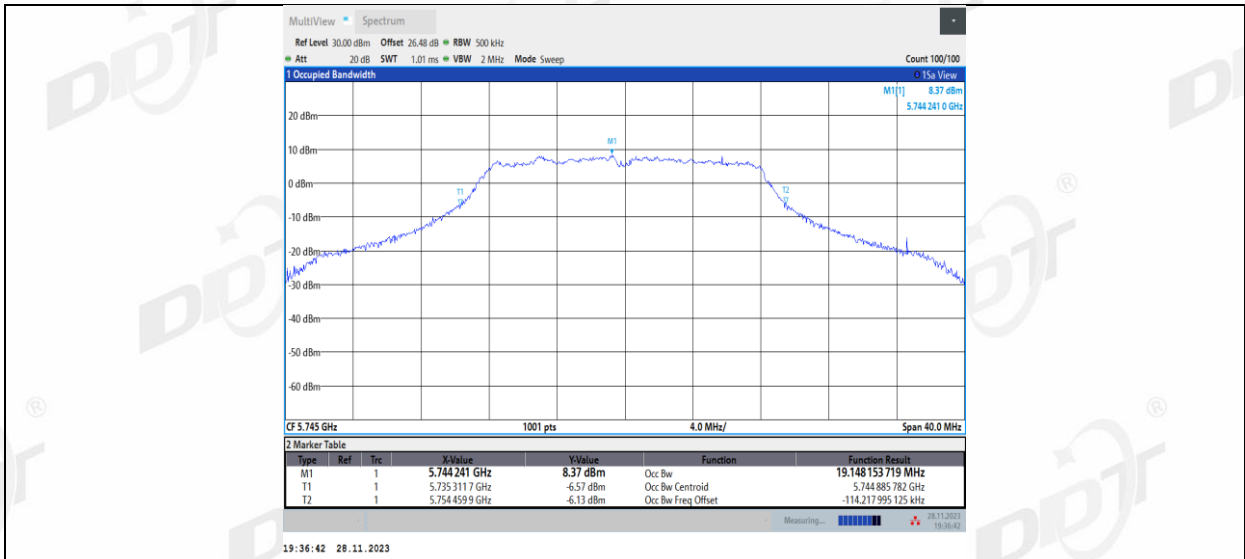
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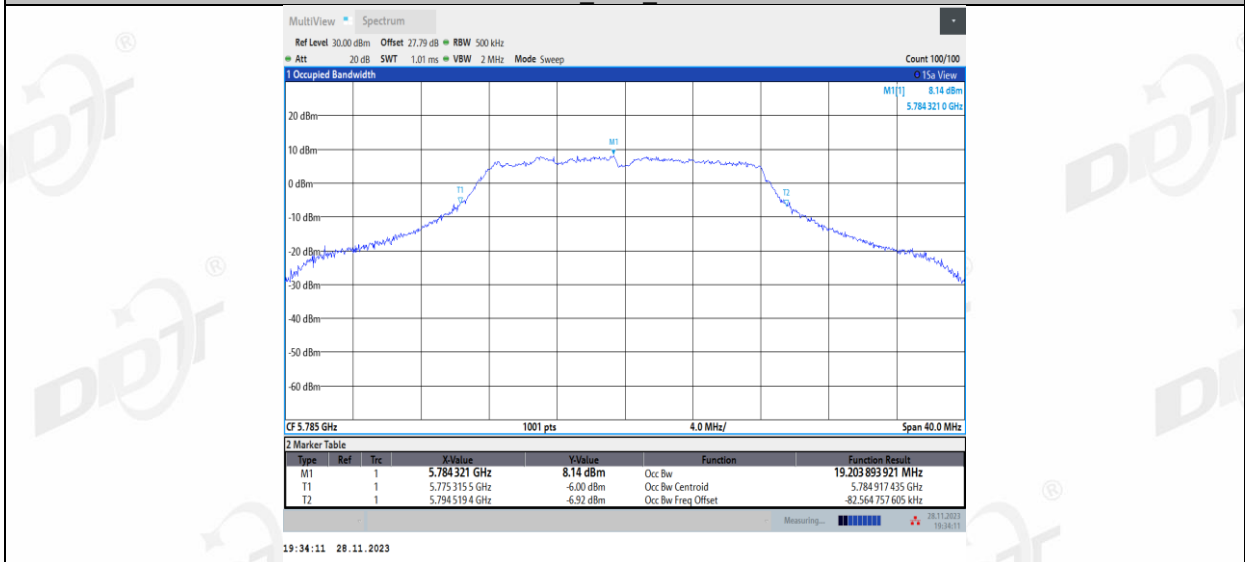
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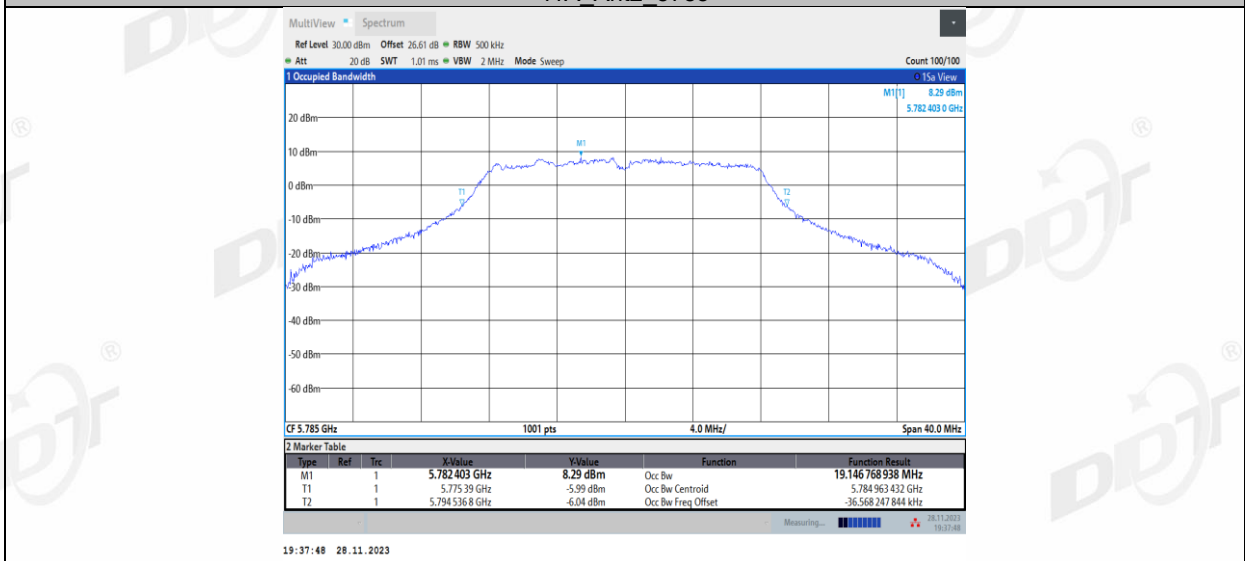
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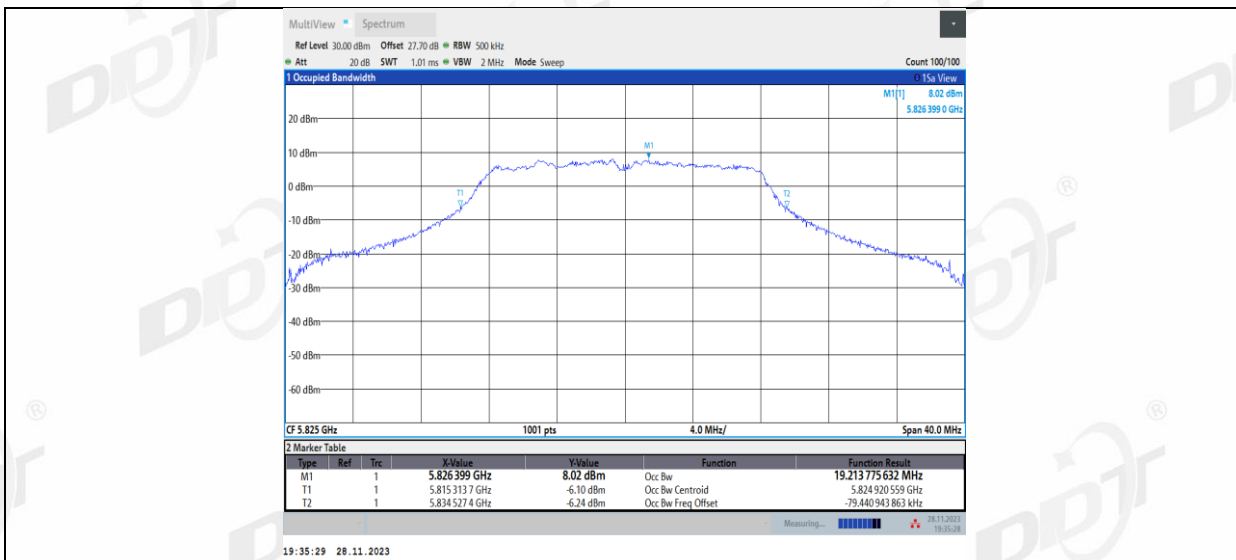
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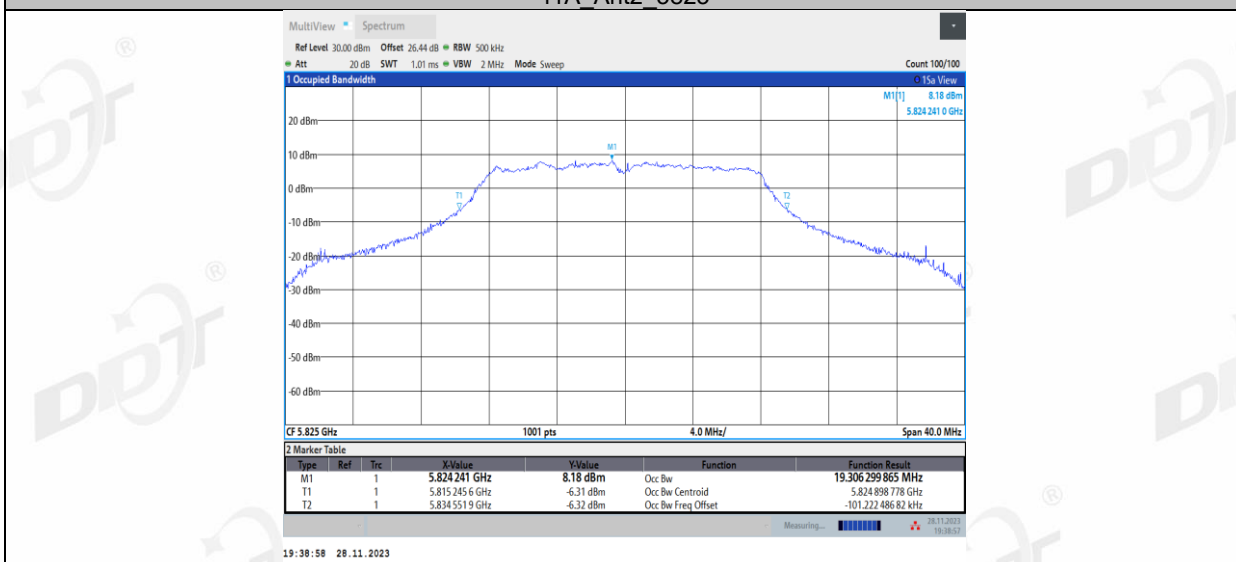
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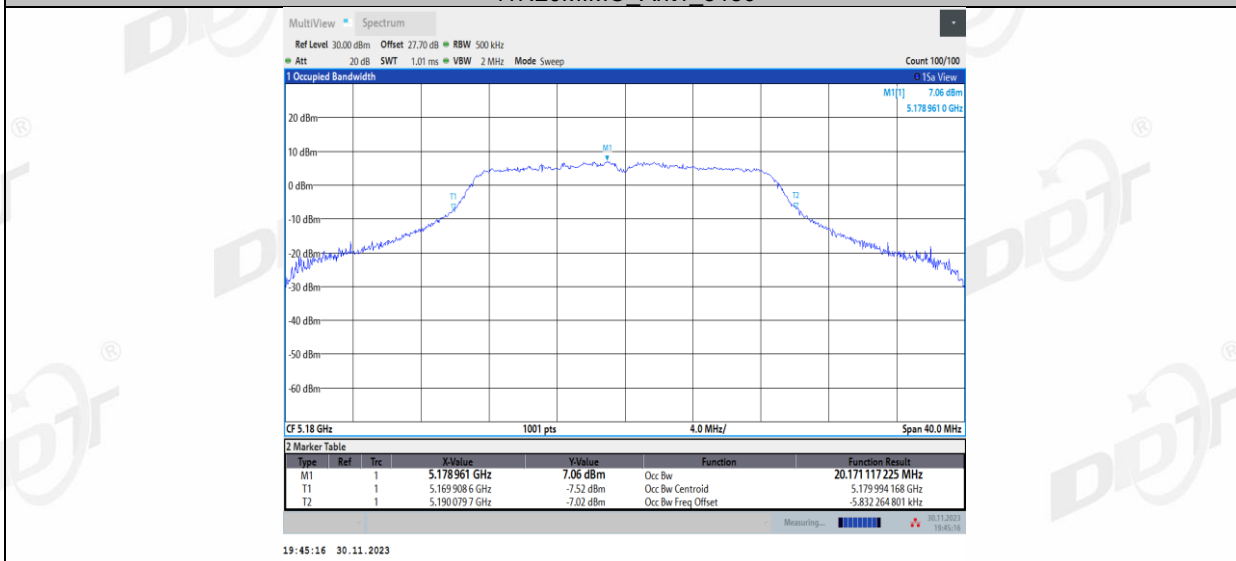
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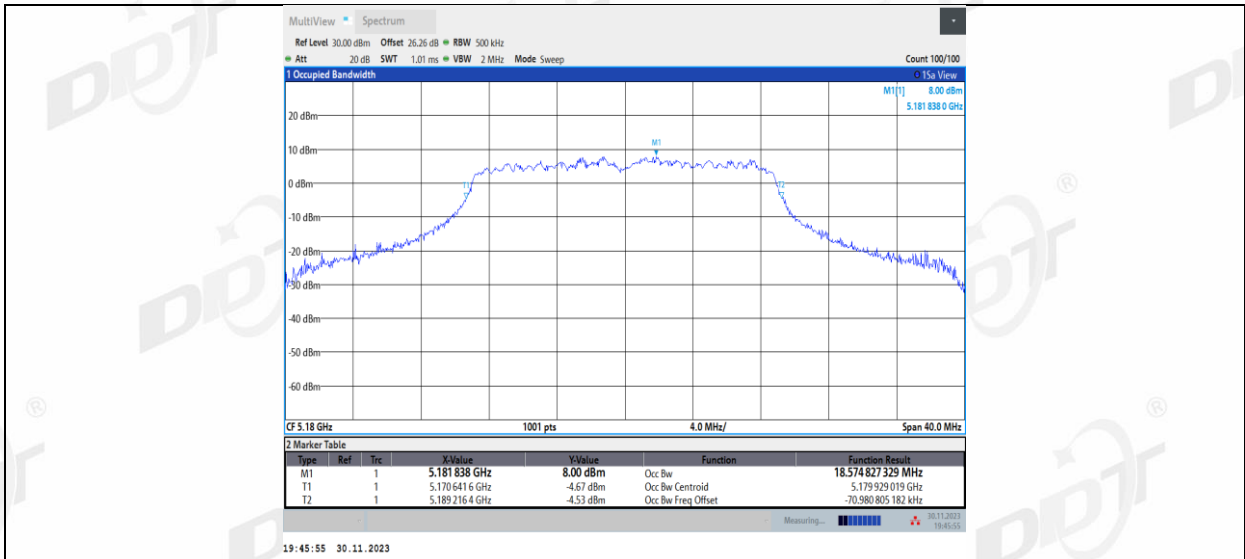
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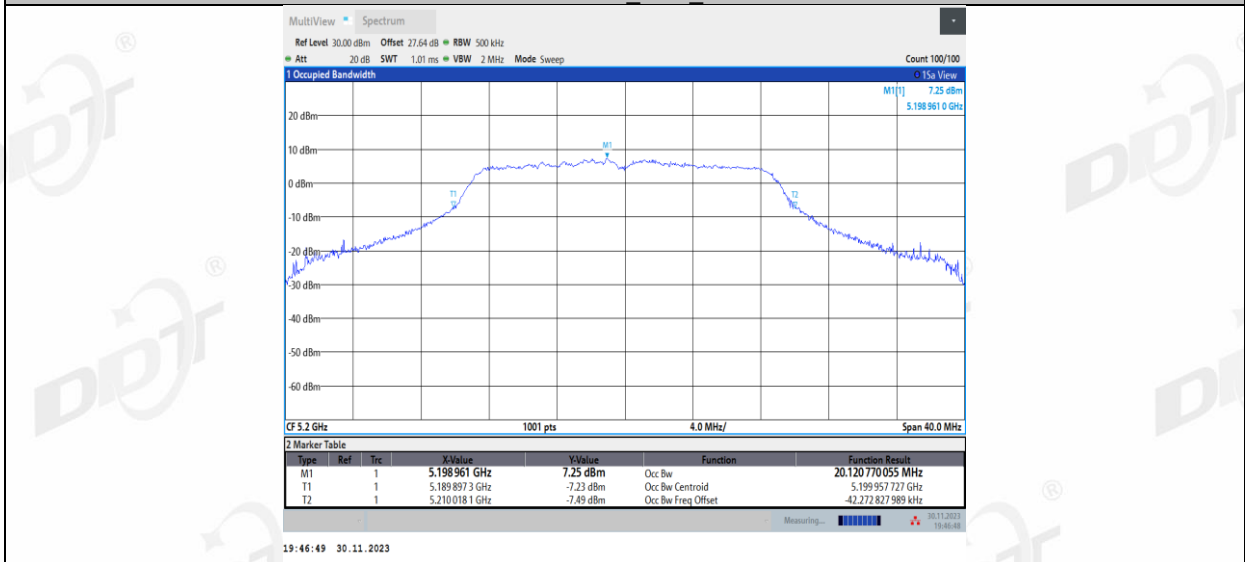
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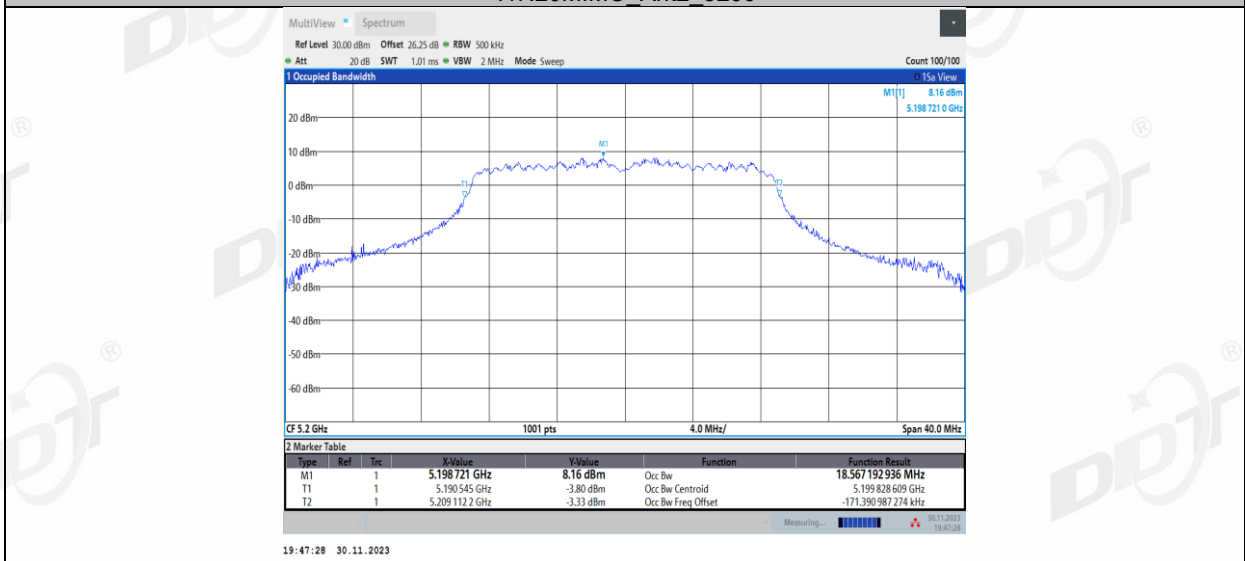
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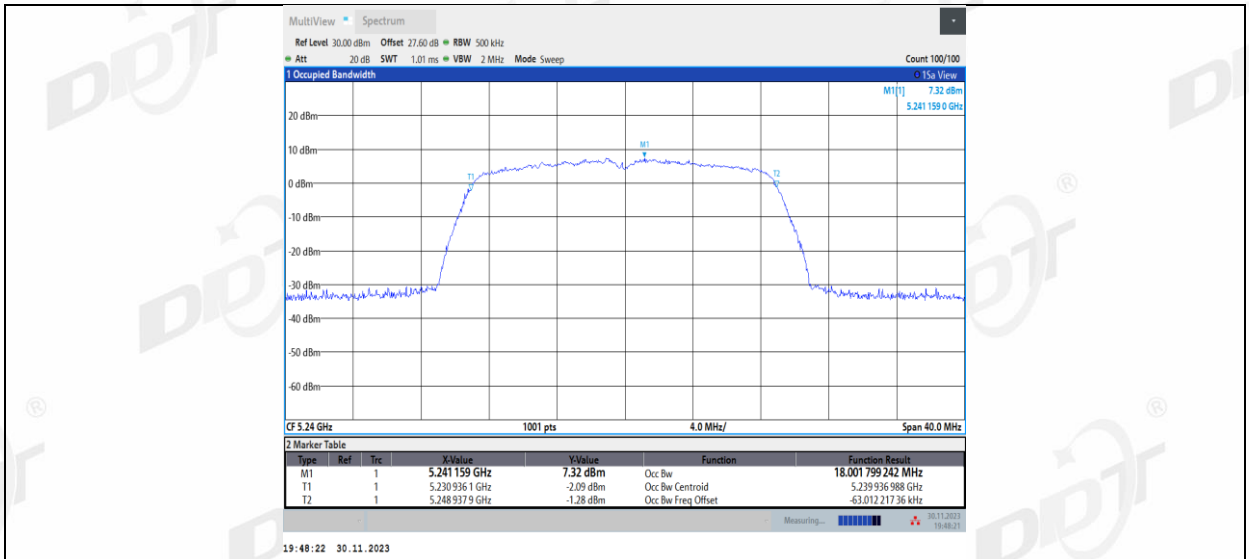
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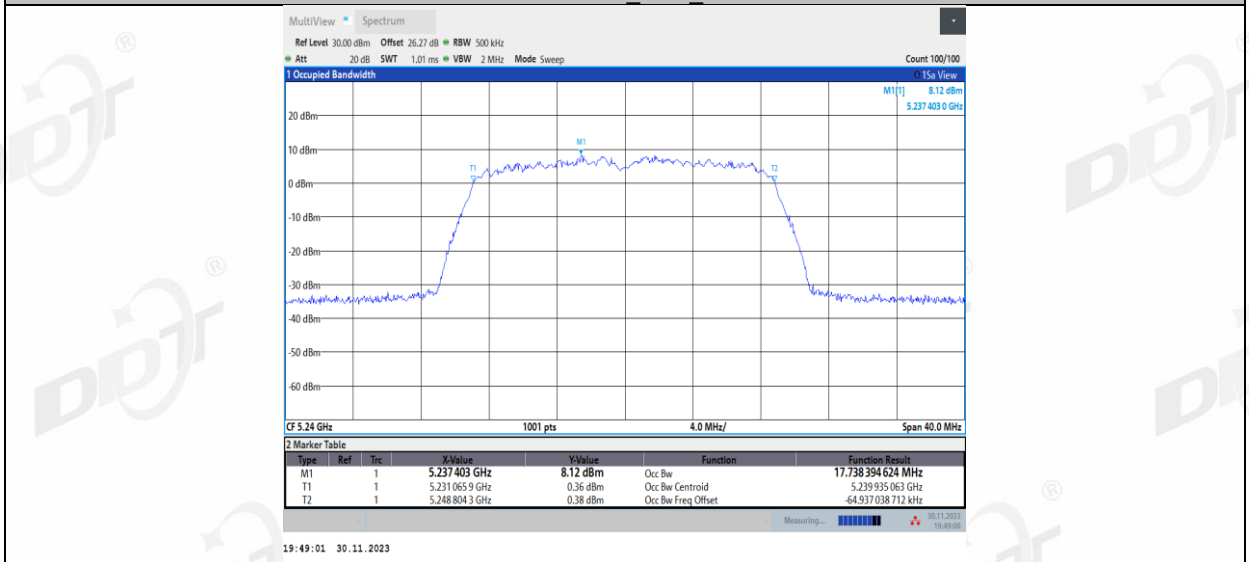
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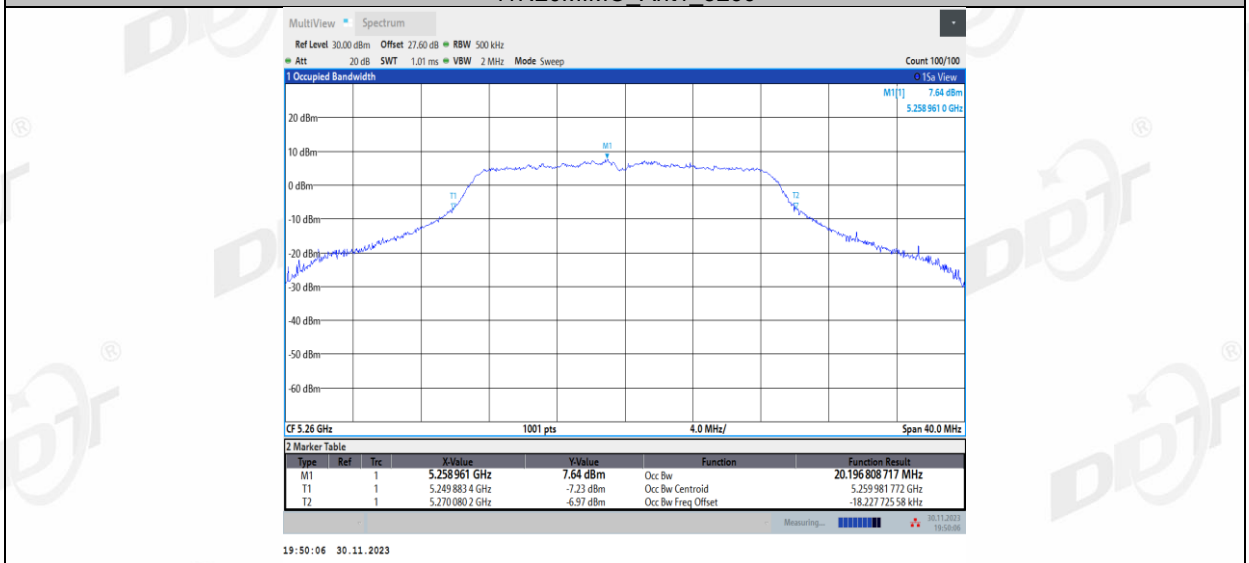
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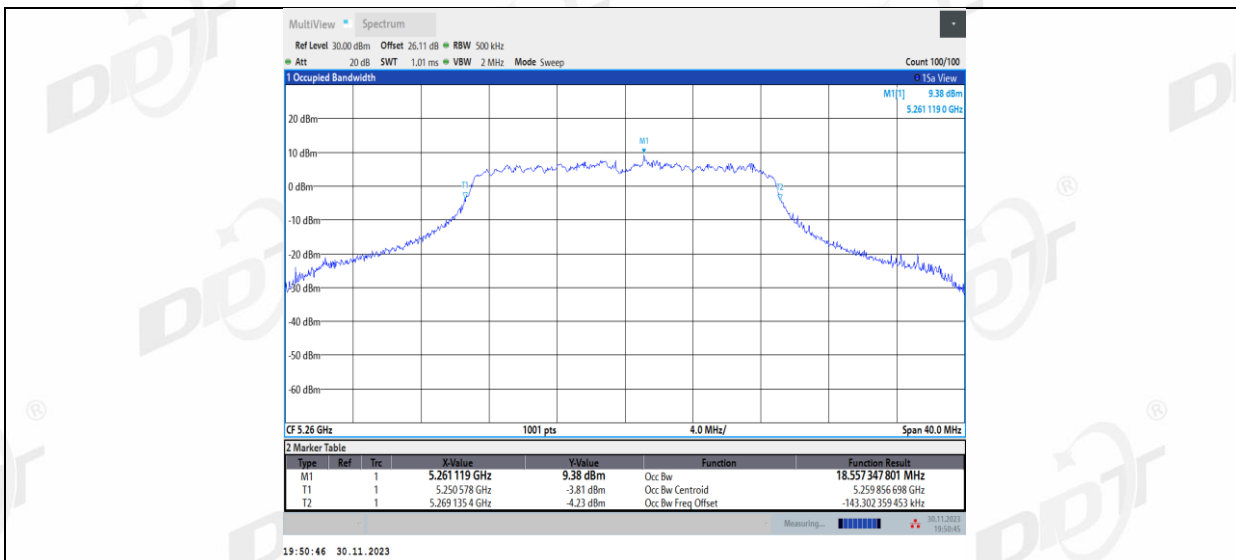


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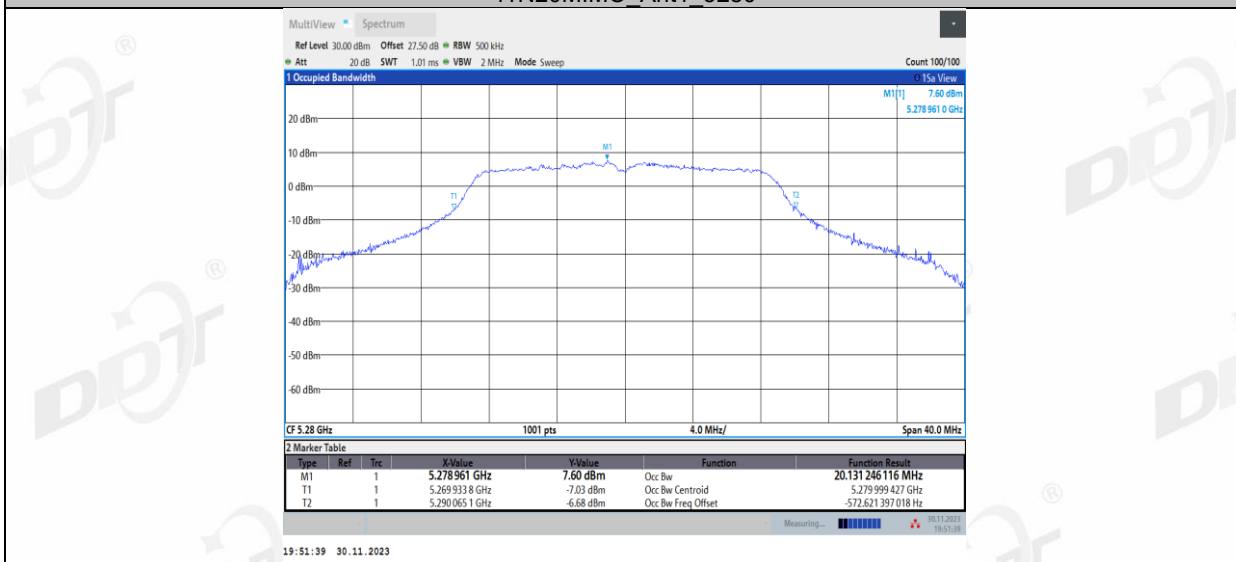


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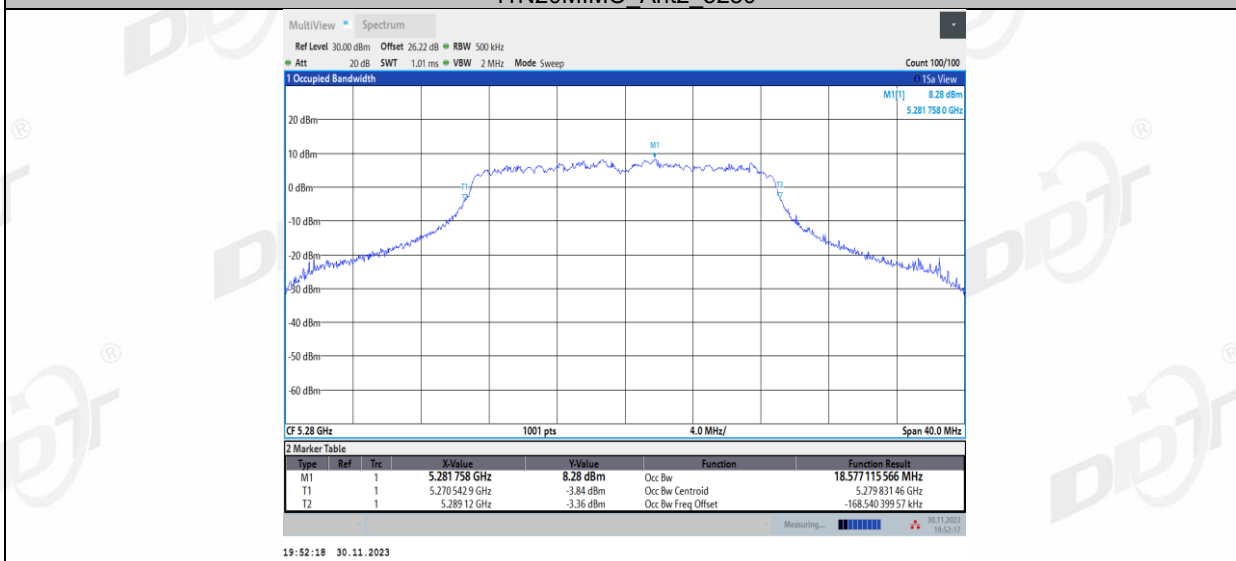




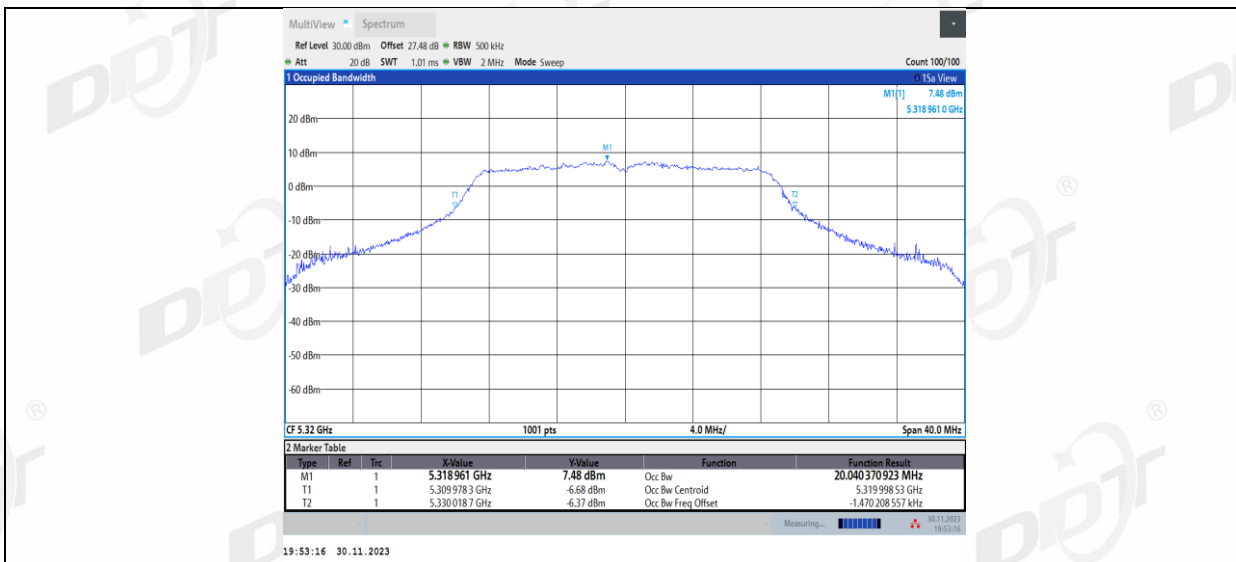
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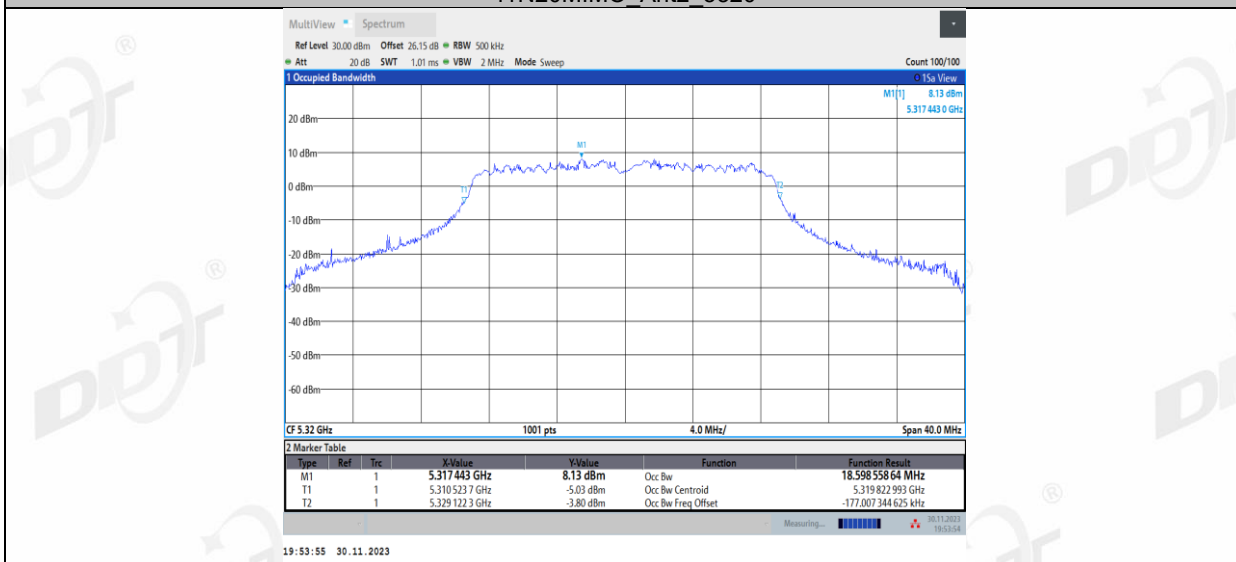
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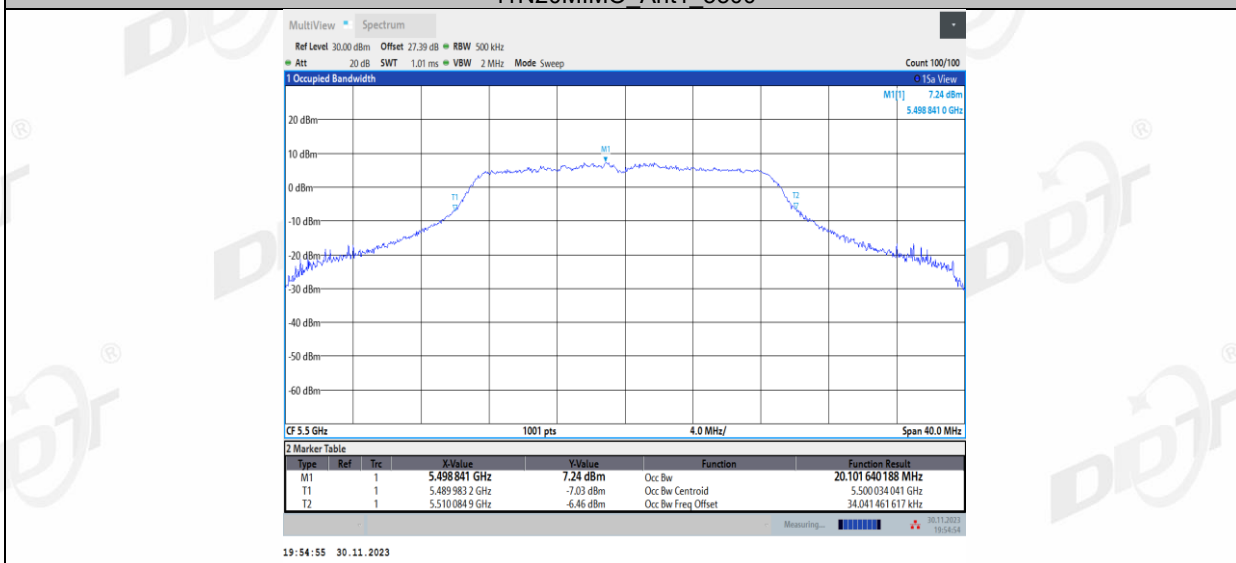
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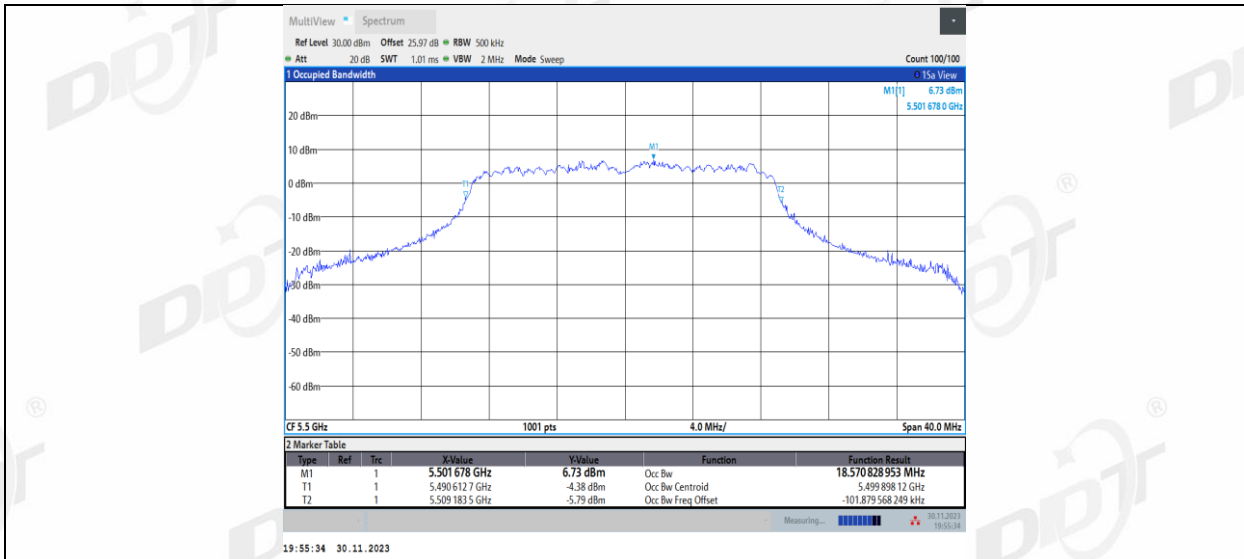
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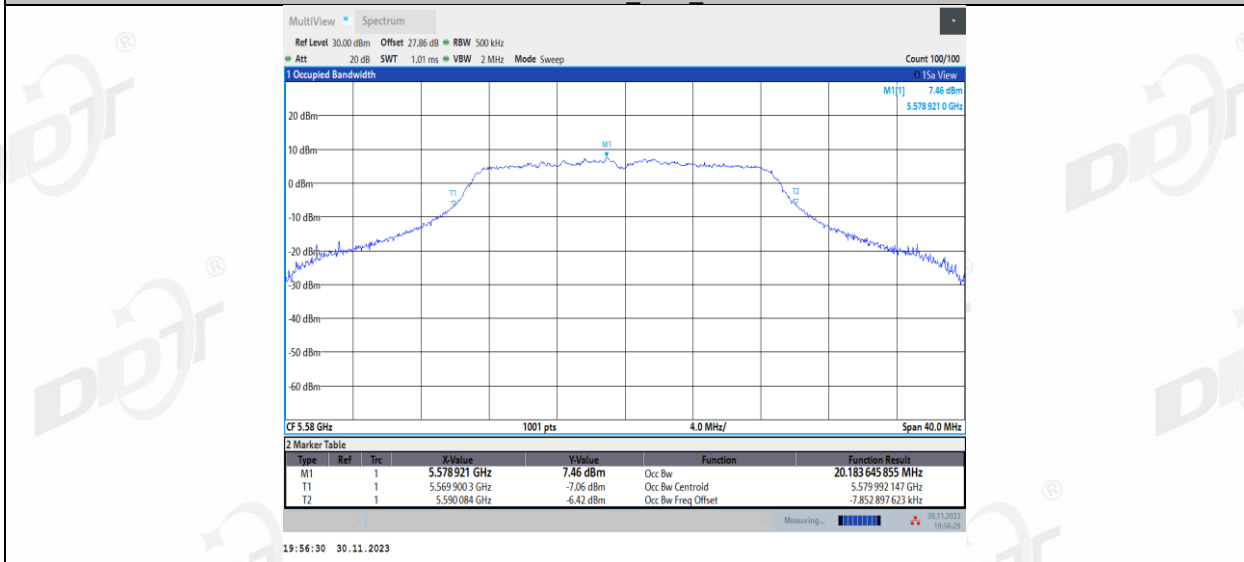
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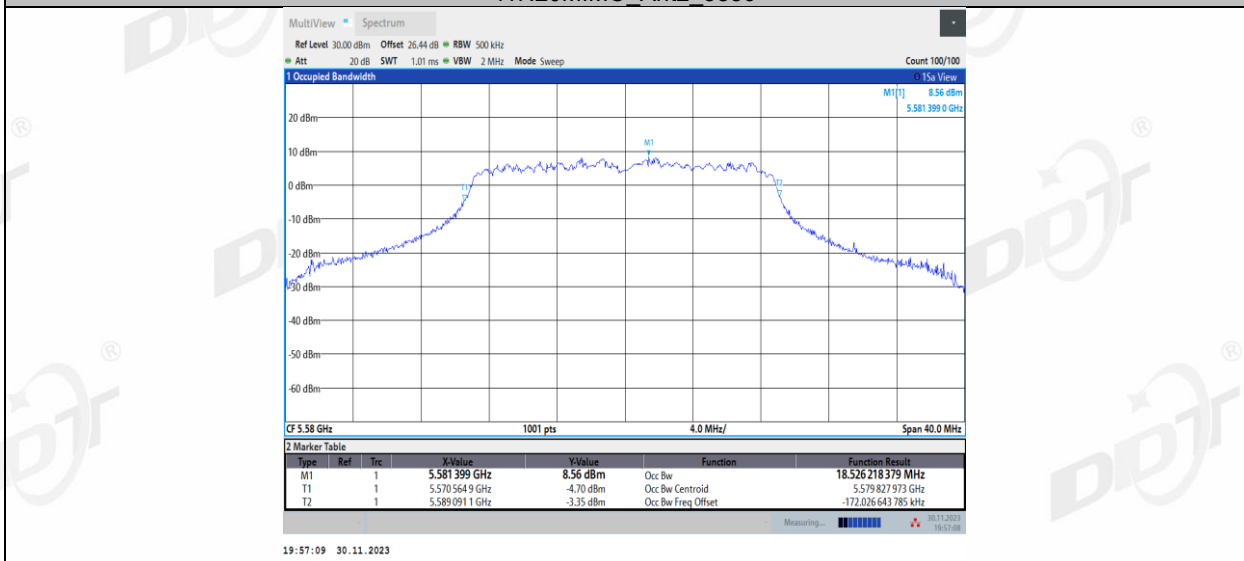
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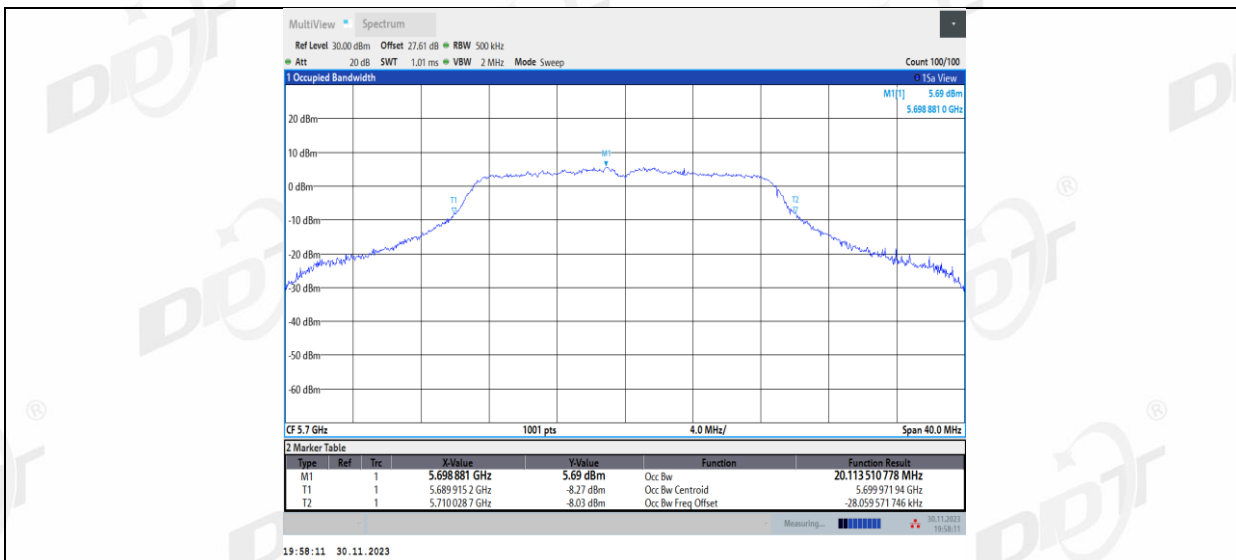
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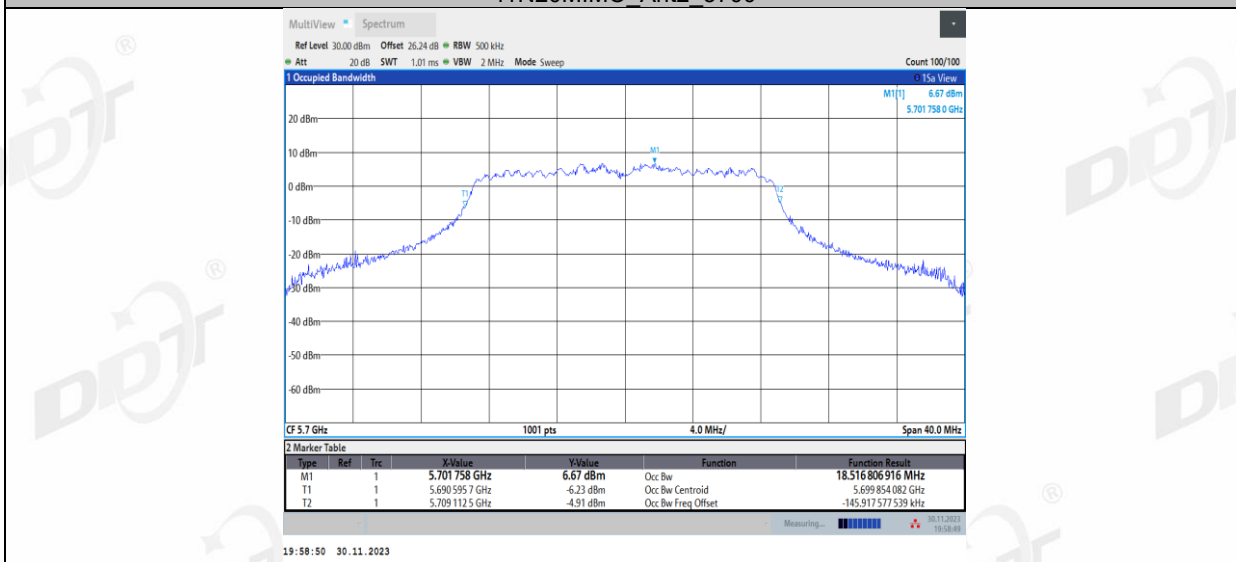
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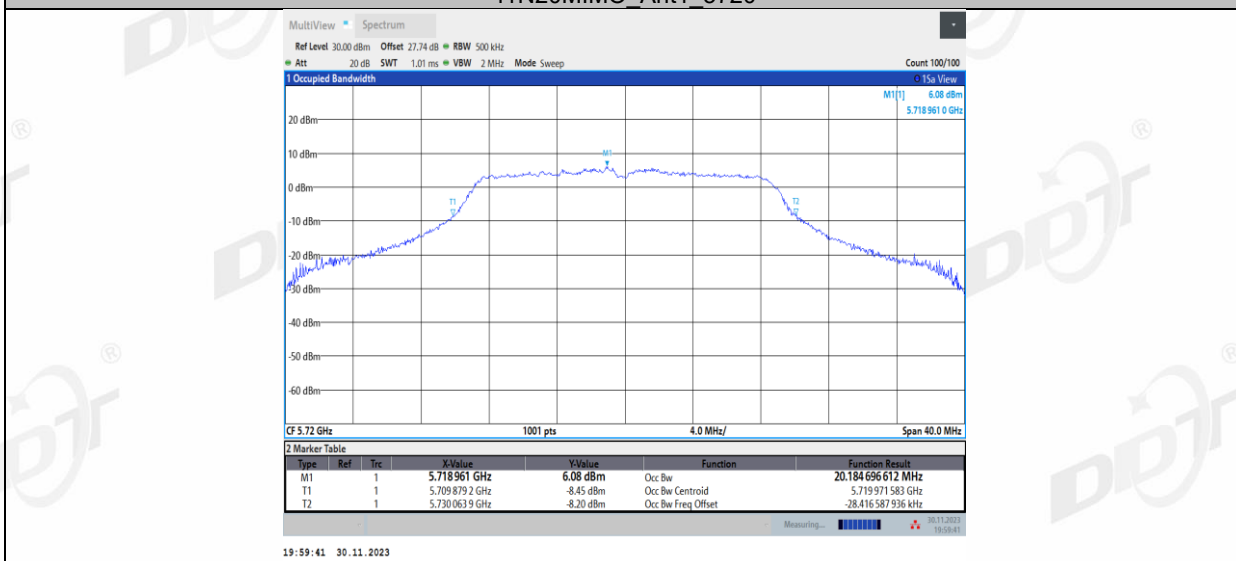
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