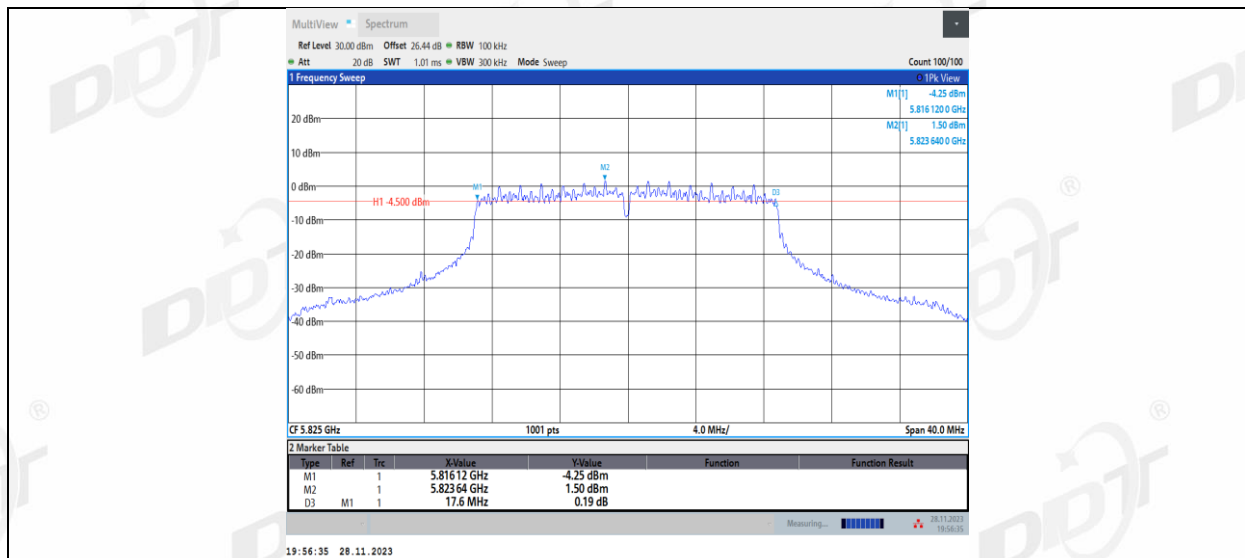
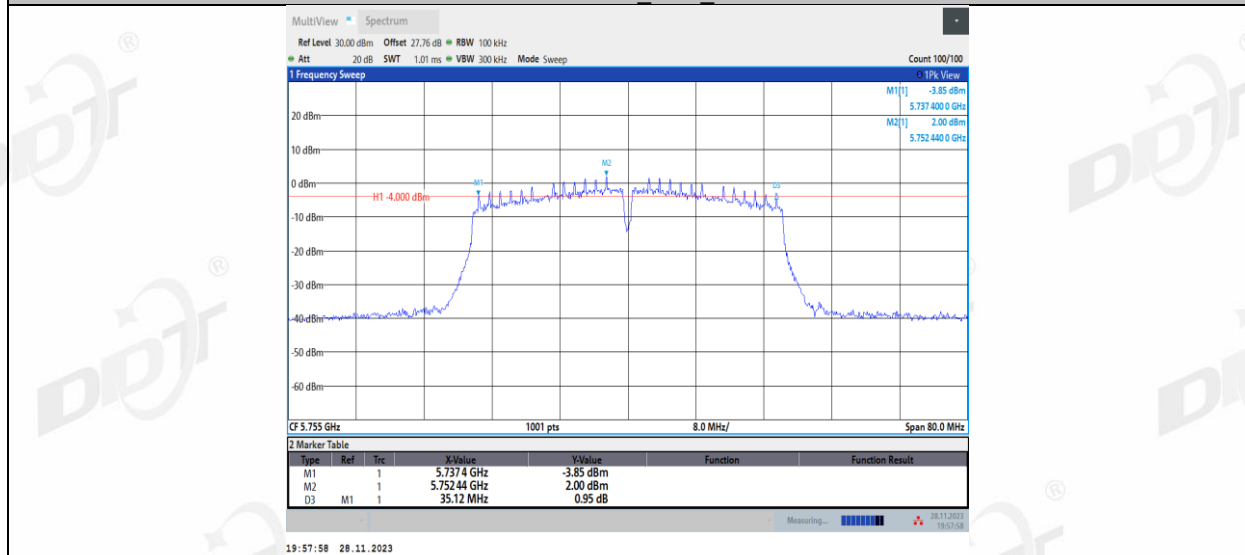
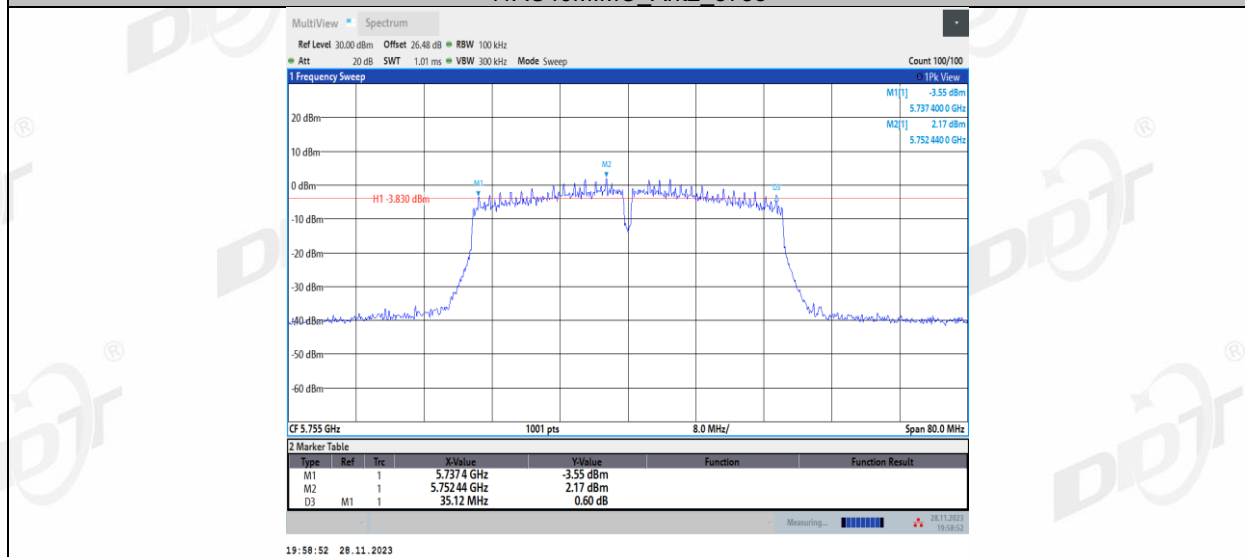




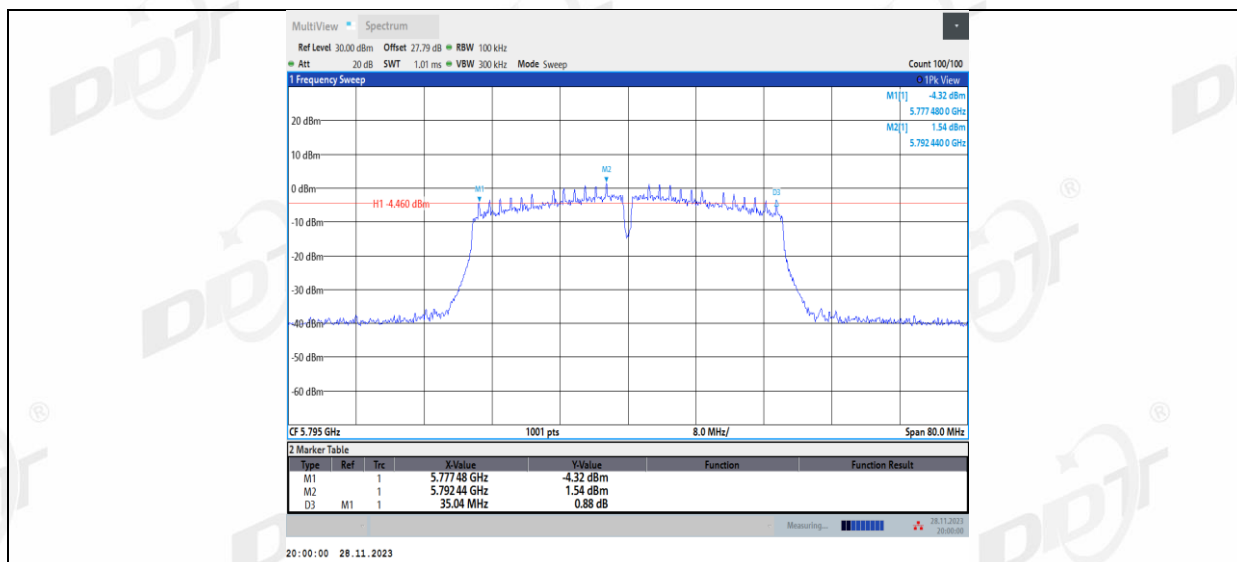
11AC40MIMO_Ant1_5755



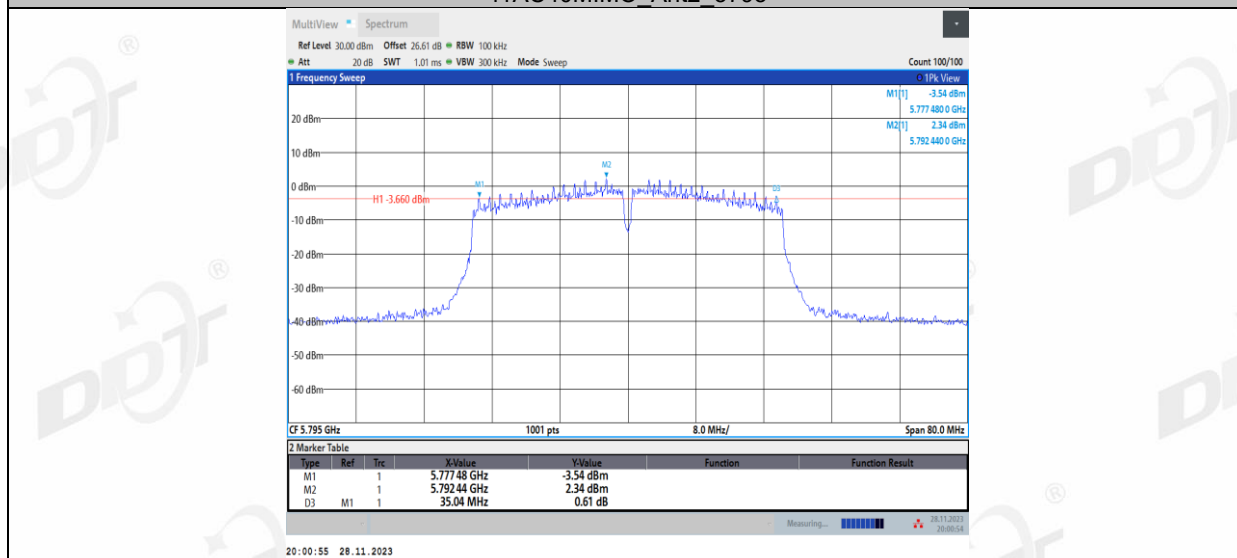
11AC40MIMO_Ant2_5755



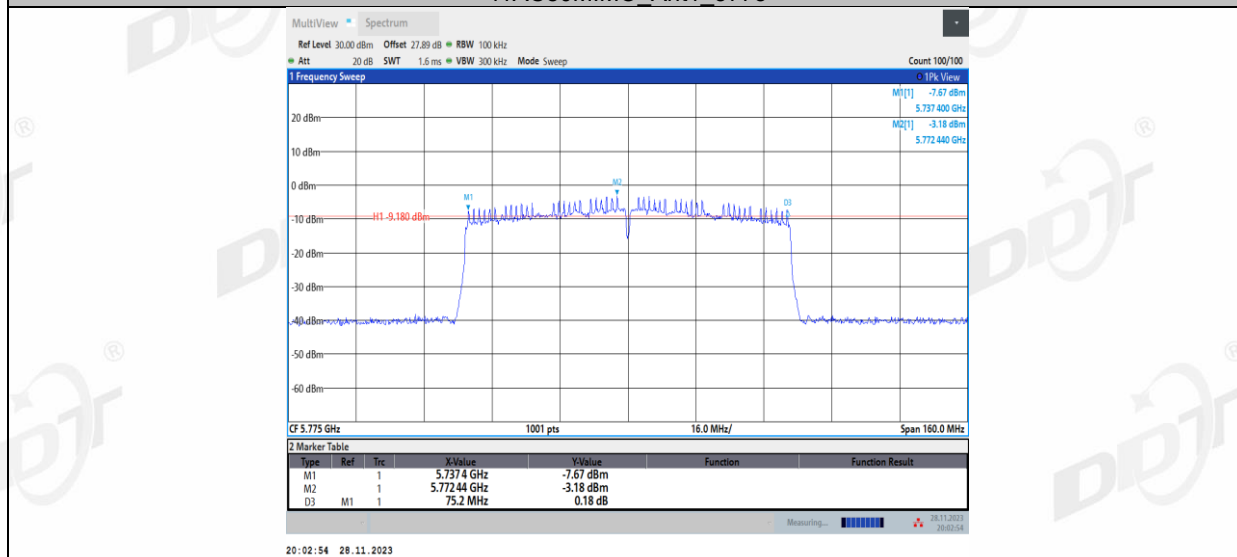
11AC40MIMO_Ant1_5795



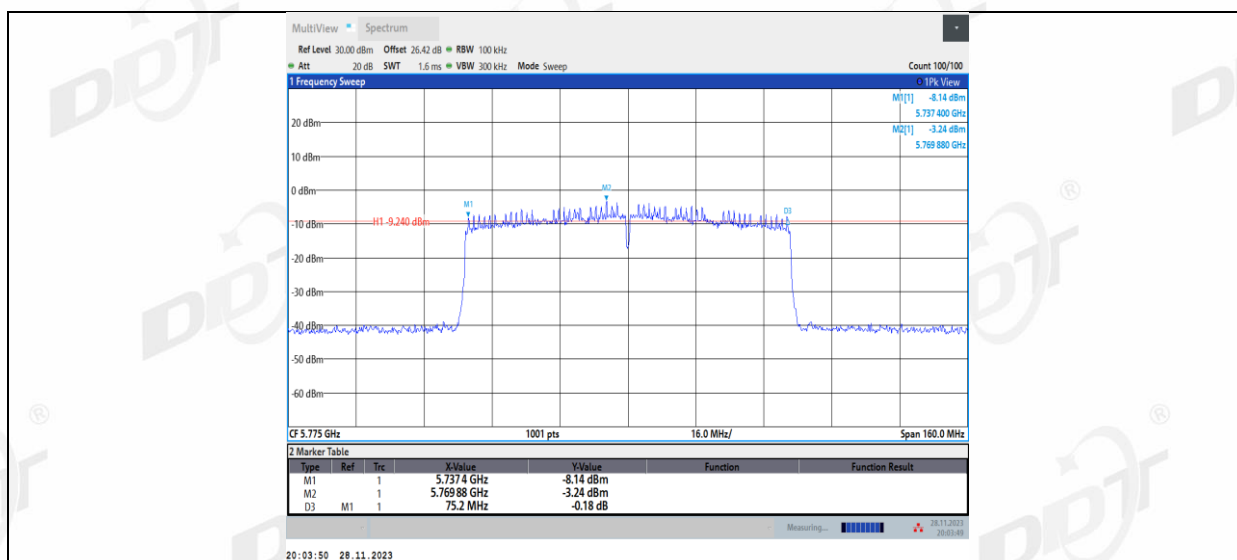
11AC40MIMO_Ant2_5795



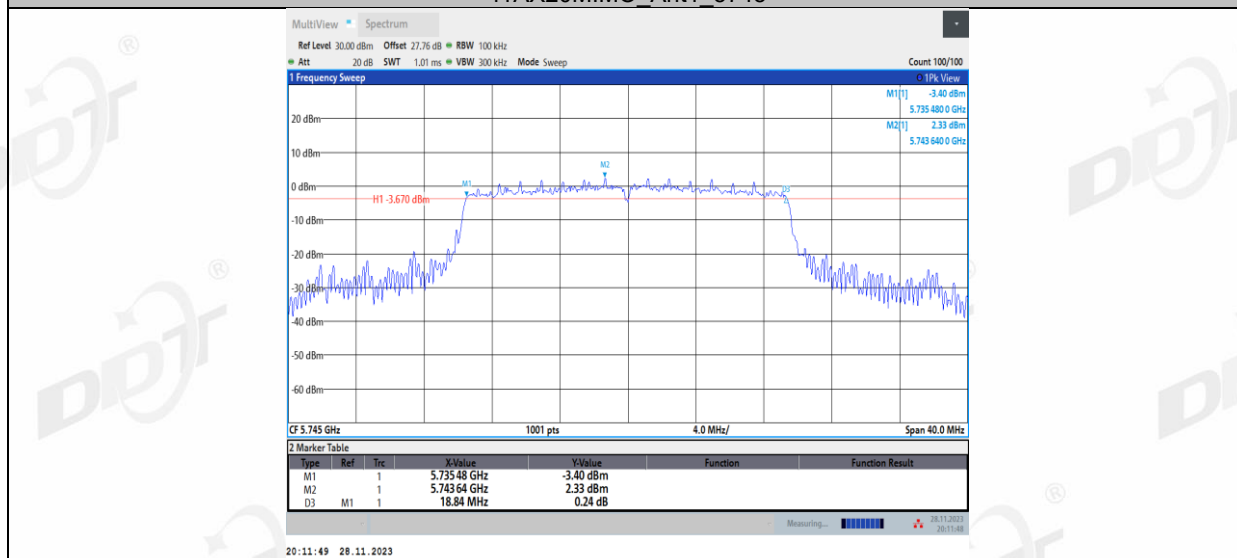
11AC80MIMO_Ant1_5775



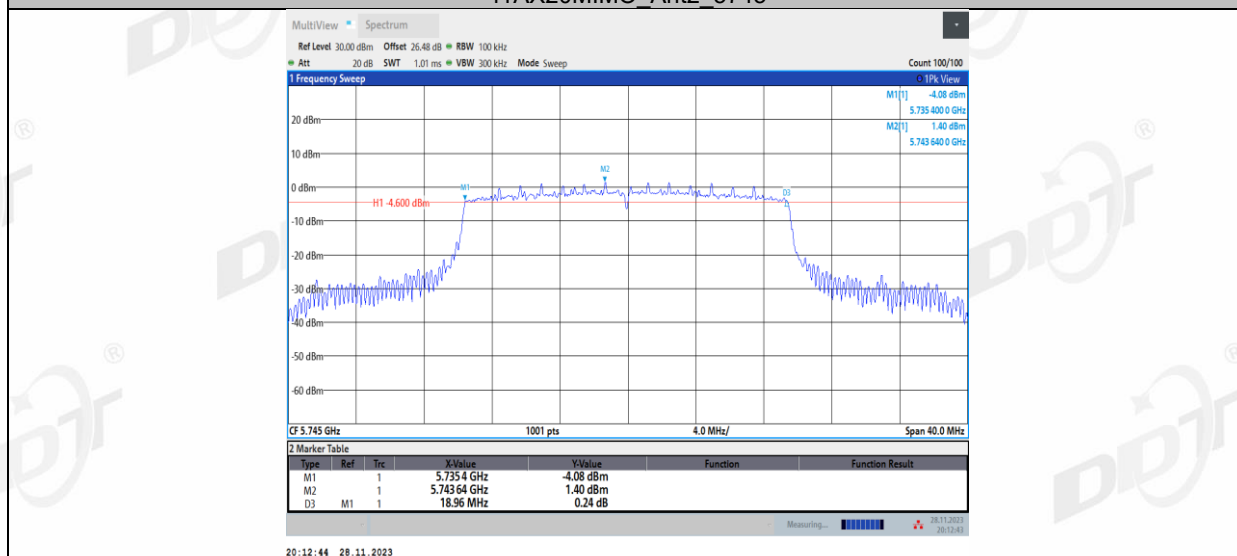
11AC80MIMO_Ant2_5775



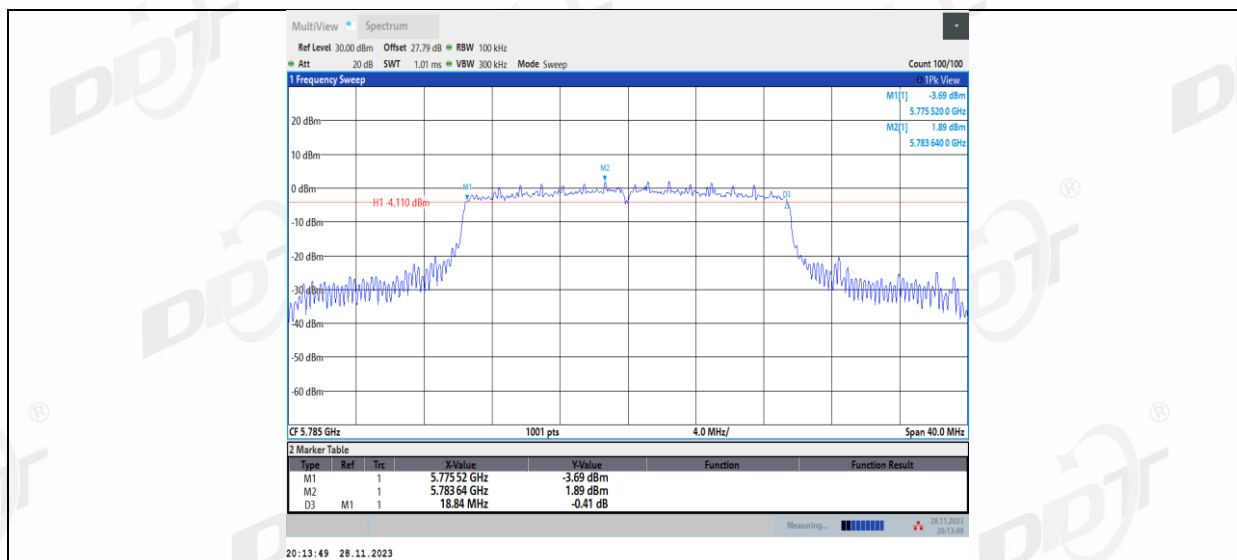
11AX20MIMO_Ant1_5745



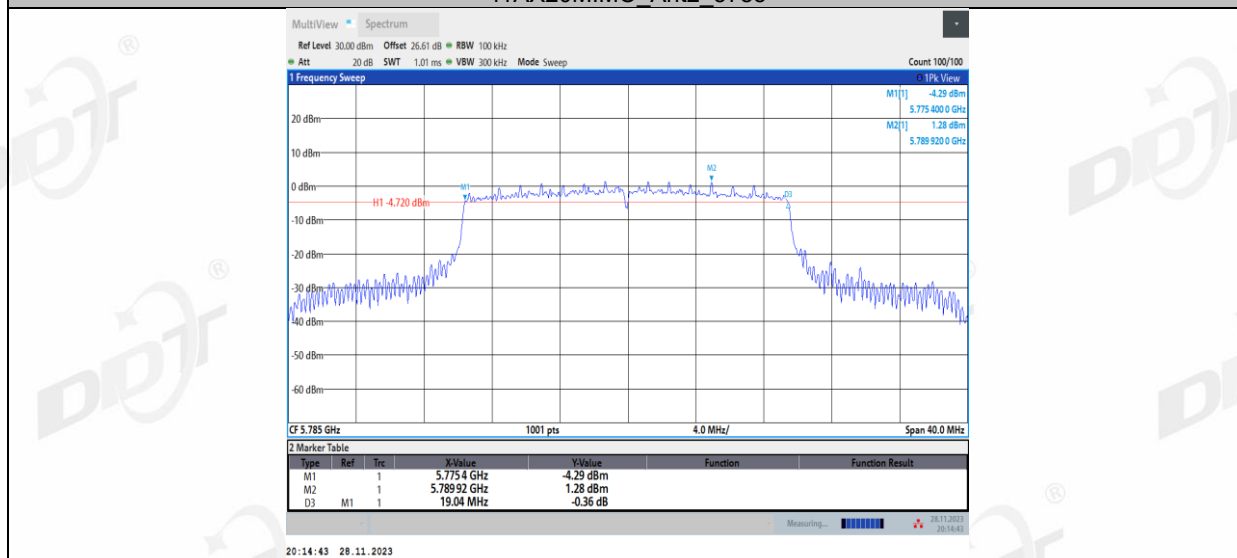
11AX20MIMO_Ant2_5745



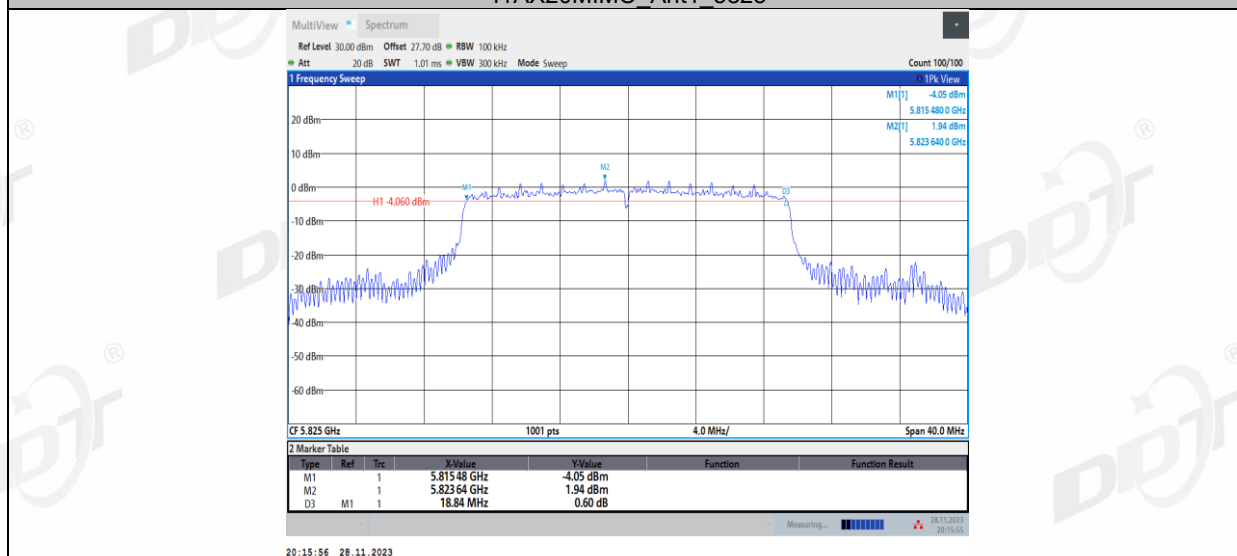
11AX20MIMO_Ant1_5785



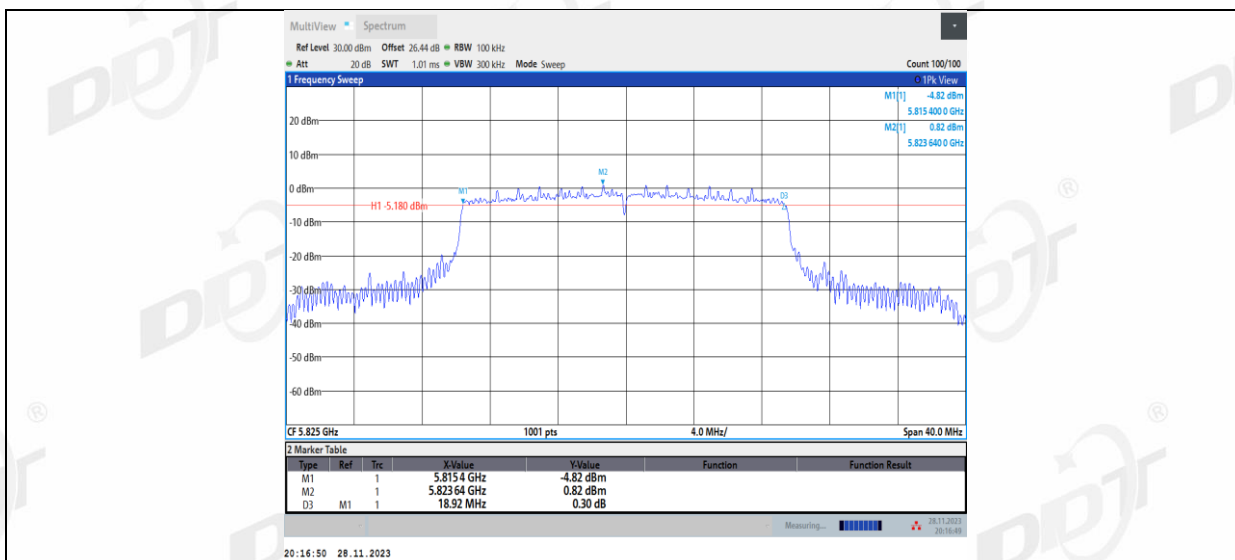
11AX20MIMO_Ant2_5785



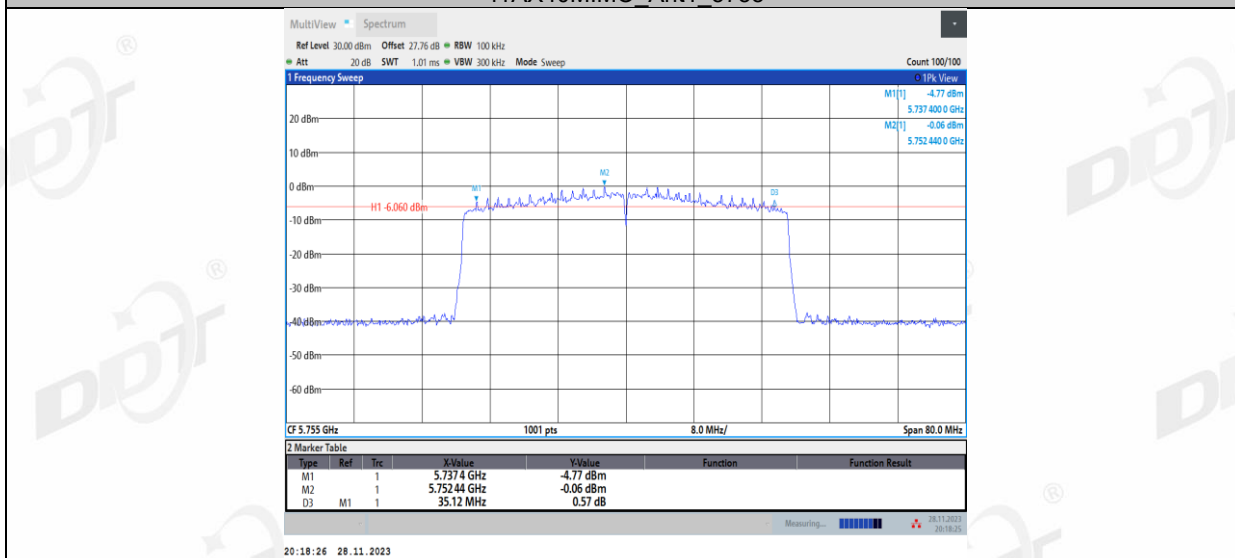
11AX20MIMO_Ant1_5825



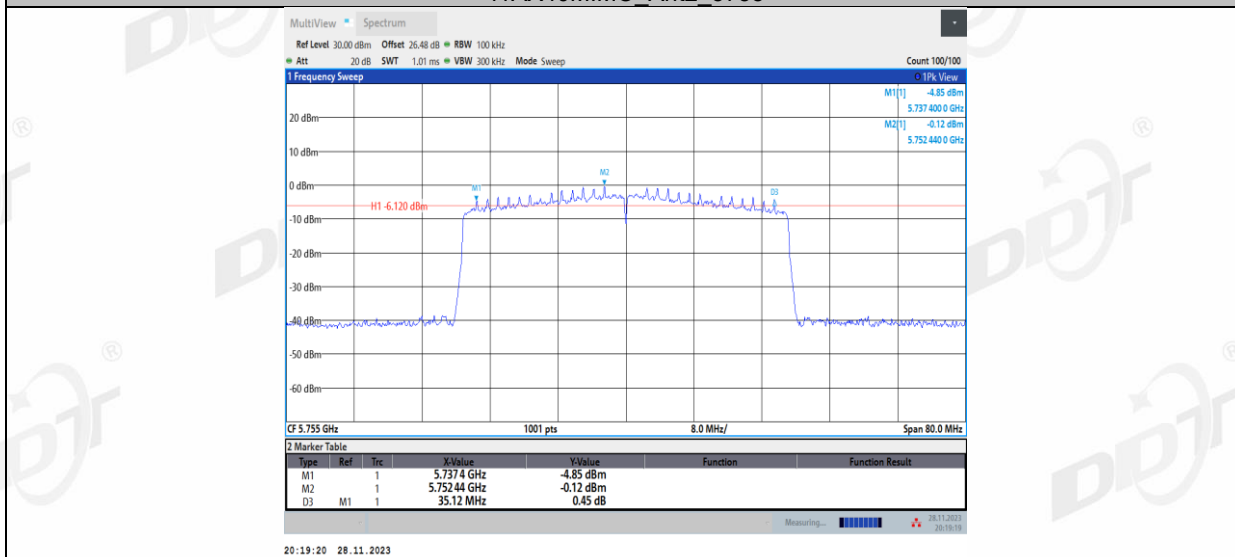
11AX20MIMO_Ant2_5825



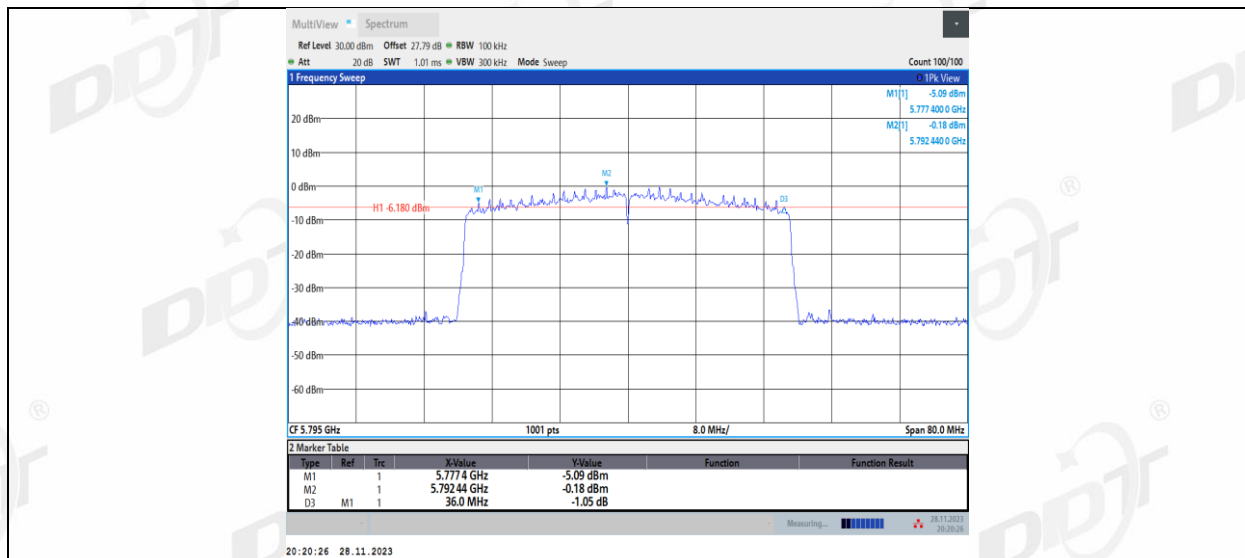
11AX40MIMO_Ant1_5755



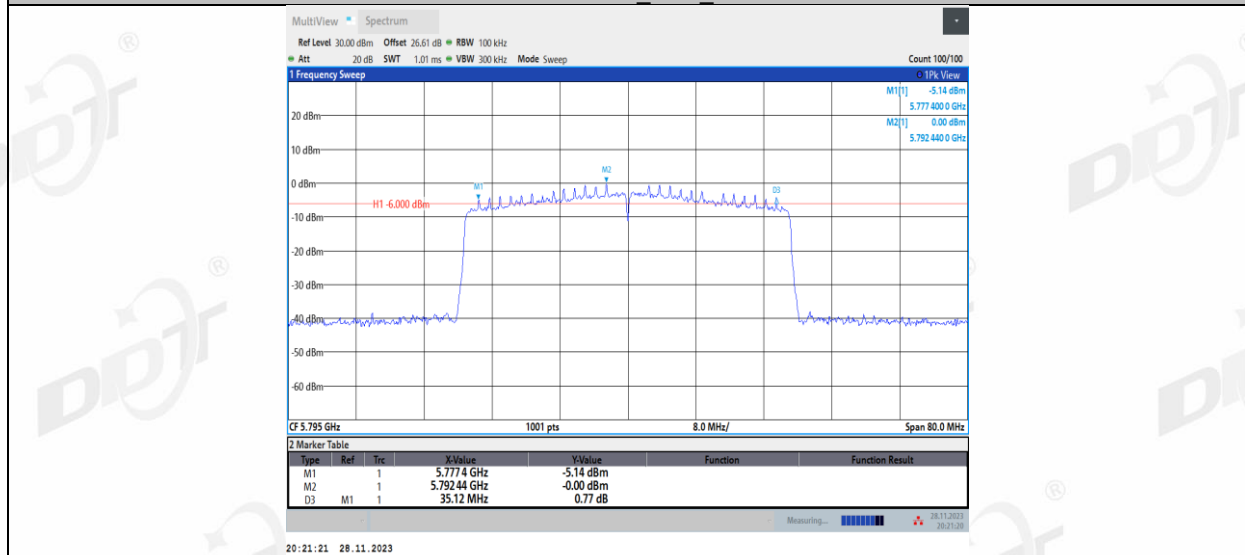
11AX40MIMO_Ant2_5755



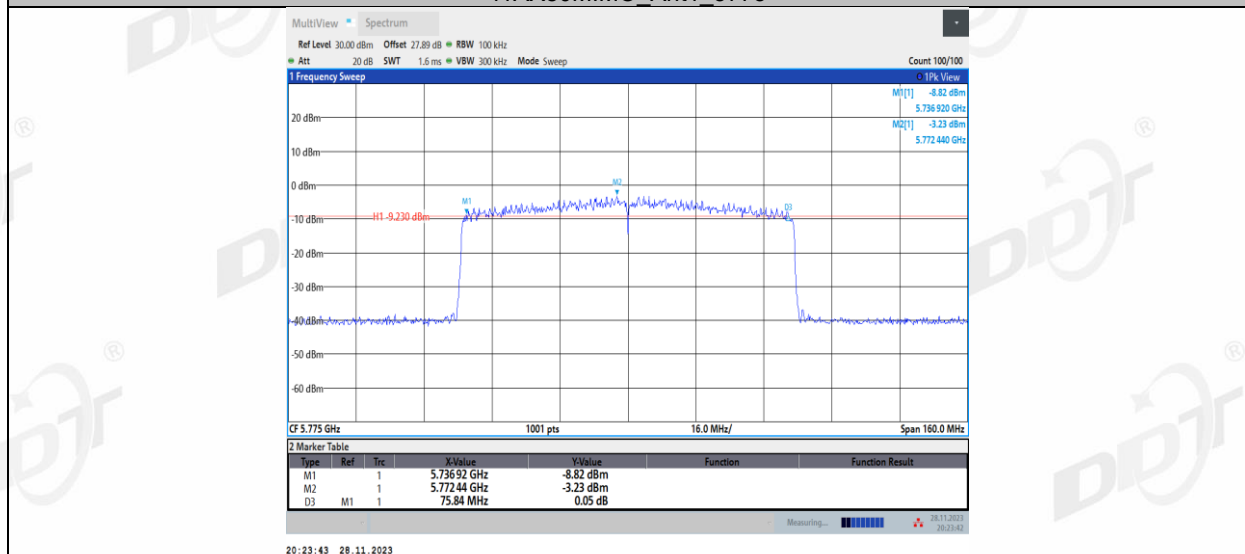
11AX40MIMO_Ant1_5795



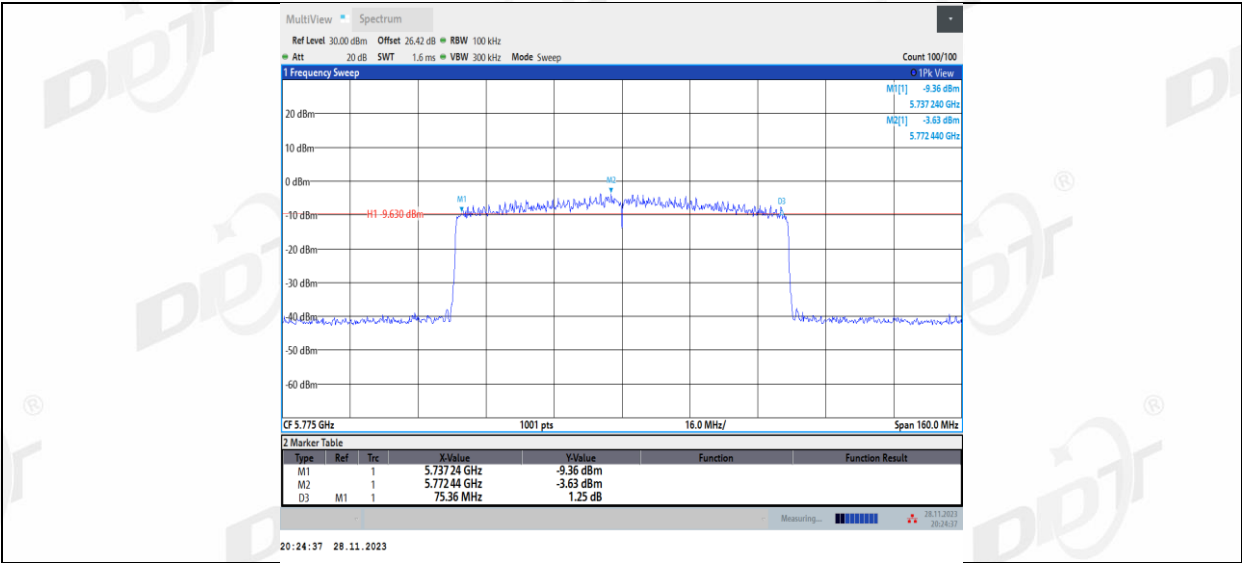
11AX40MIMO_Ant2_5795



11AX80MIMO_Ant1_5775

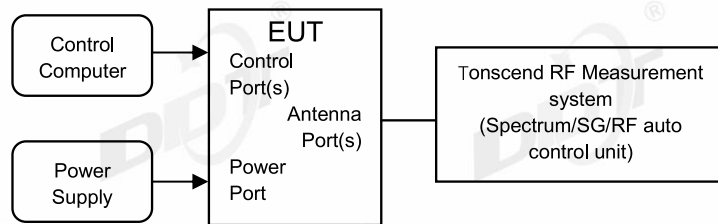


11AX80MIMO_Ant2_5775



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	---	---
11N20MIMO	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	---	---
	Ant1	5825	20.122	5814.9238	5835.0461	---	---
11N40MIM O	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	---	---
11AC20MI MO	Ant1	5795	35.922	5776.9877	5812.9098	---	---
	Ant2	5795	35.926	5776.9585	5812.8849	---	---
	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	---	---

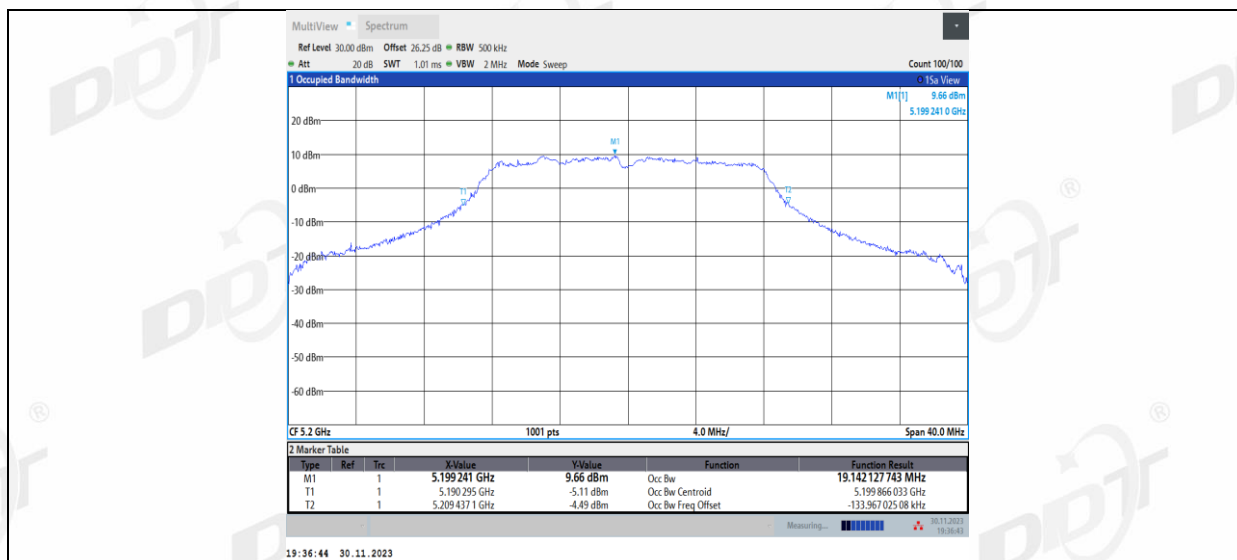
	Ant2	5720_UN II-2C	14.13	5710.8705	5725	---	---
	Ant1	5720_UN II-3	4.791	5725	5729.7913	---	---
	Ant2	5720_UN II-3	4.097	5725	5729.0973	---	---
	Ant1	5745	19.712	5735.0605	5754.7727	---	---
	Ant2	5745	18.158	5735.8862	5754.0439	---	---
	Ant1	5785	19.752	5775.0807	5794.8328	---	---
	Ant2	5785	18.204	5775.8983	5794.1018	---	---
	Ant1	5825	19.792	5815.0525	5834.8446	---	---
11AC40MI MO	Ant2	5825	18.23	5815.8771	5834.1076	---	---
	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	---	---

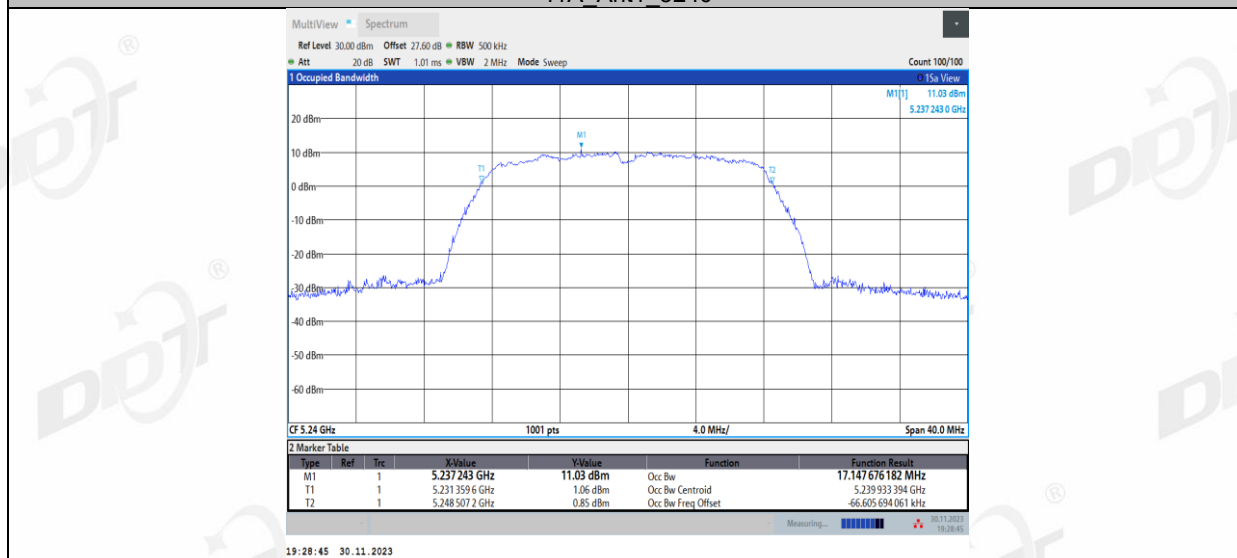
Ant1	5610	75.222	5572.3255	5647.5477	---	---
Ant2	5610	75.217	5572.4023	5647.6191	---	---
Ant1	5690	75.347	5652.2223	5727.5693	---	---
Ant2	5690	75.132	5652.3508	5727.4823	---	---
Ant1	5690_UN II-2C	72.778	5652.2223	5725	---	---
Ant2	5690_UN II-2C	72.649	5652.3508	5725	---	---
Ant1	5690_UN II-3	2.569	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

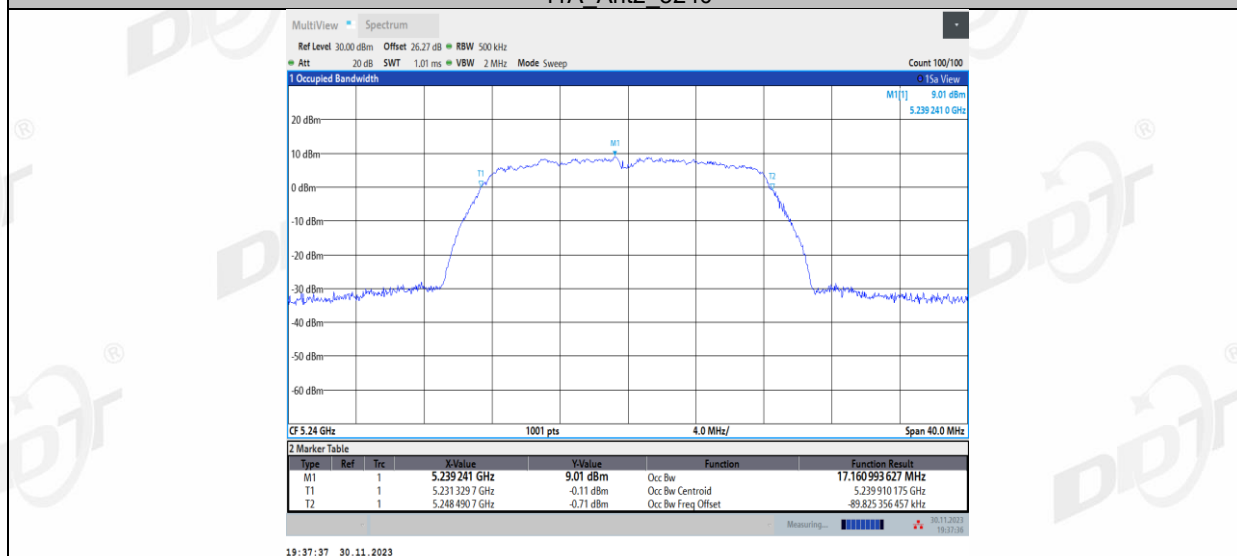




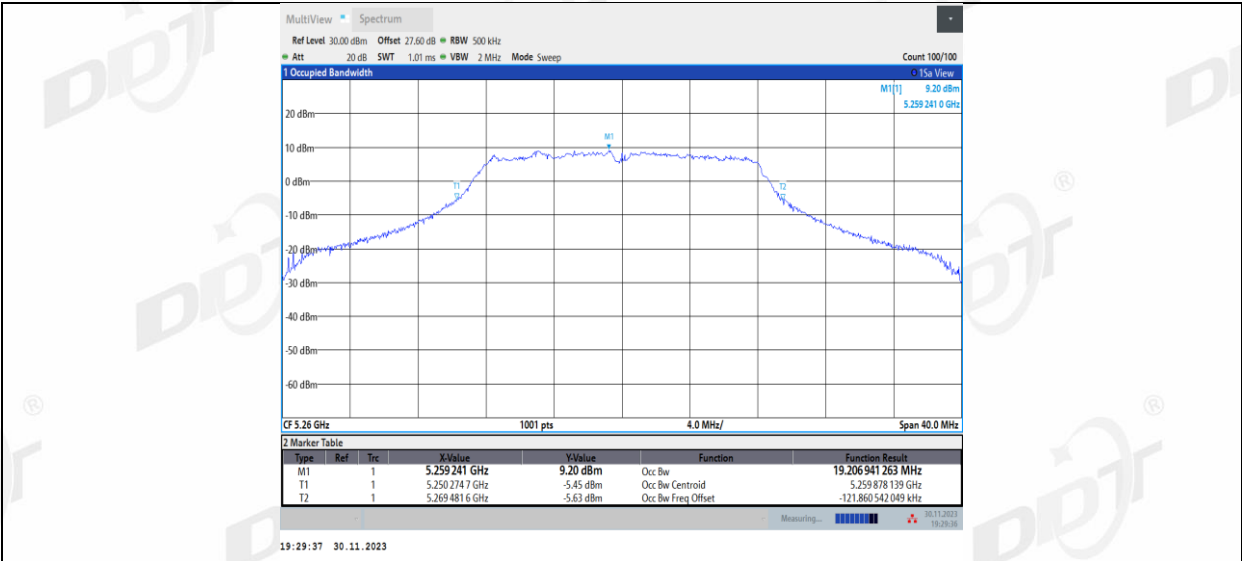
11A_Ant1_5240



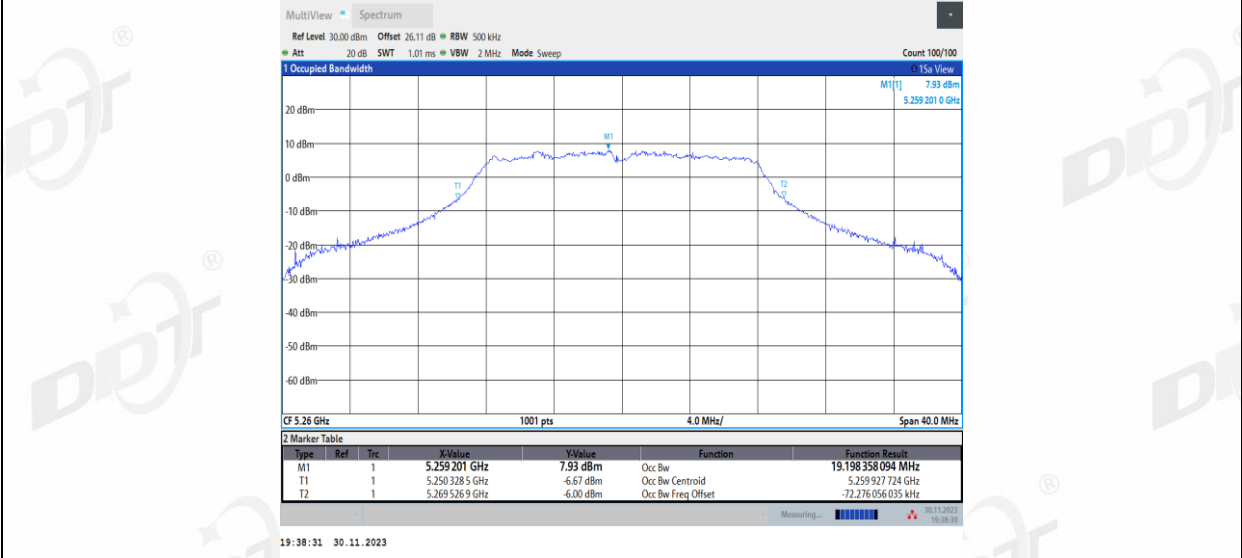
11A_Ant2_5240



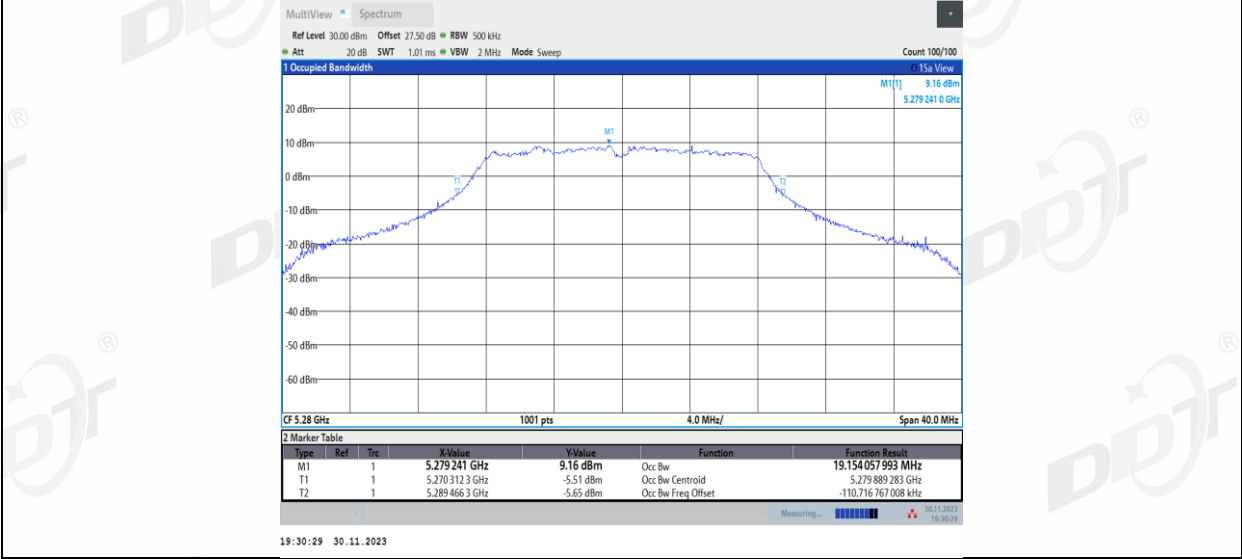
11A_Ant1_5260



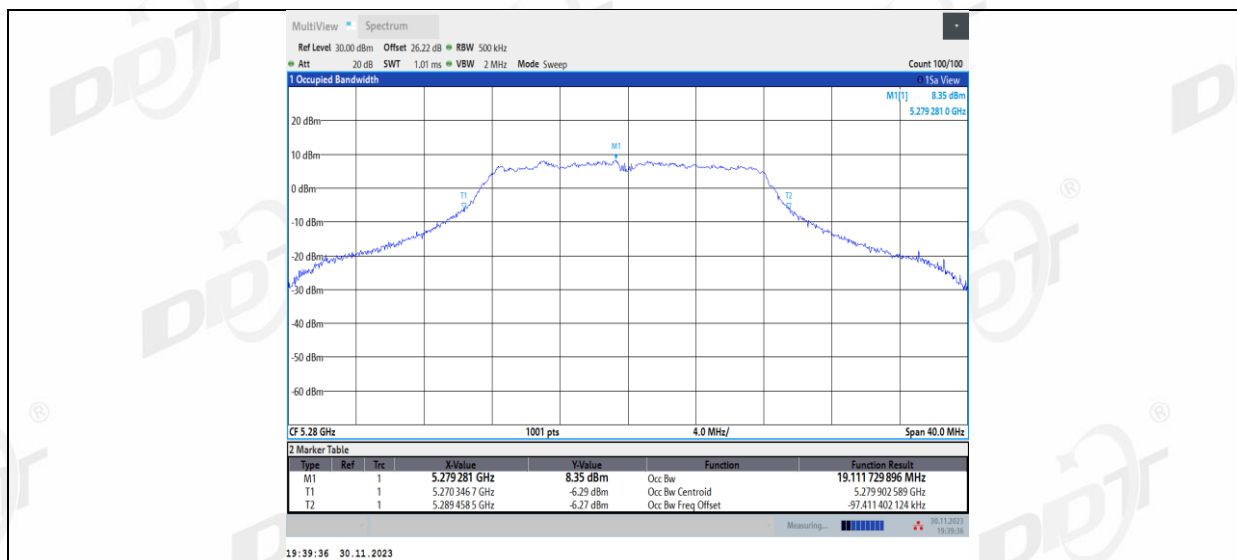
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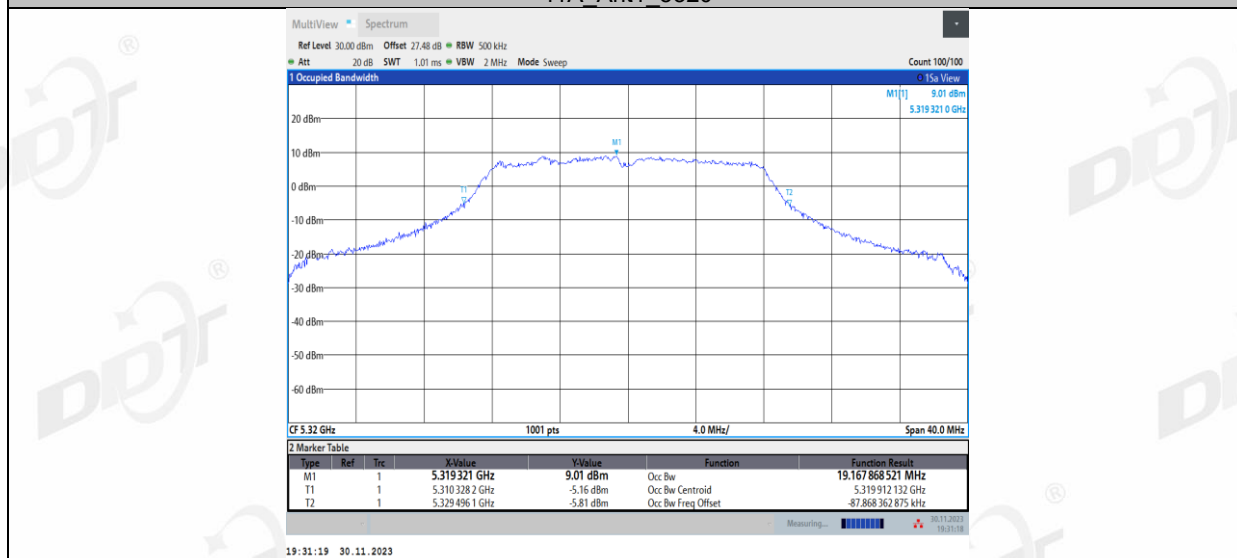
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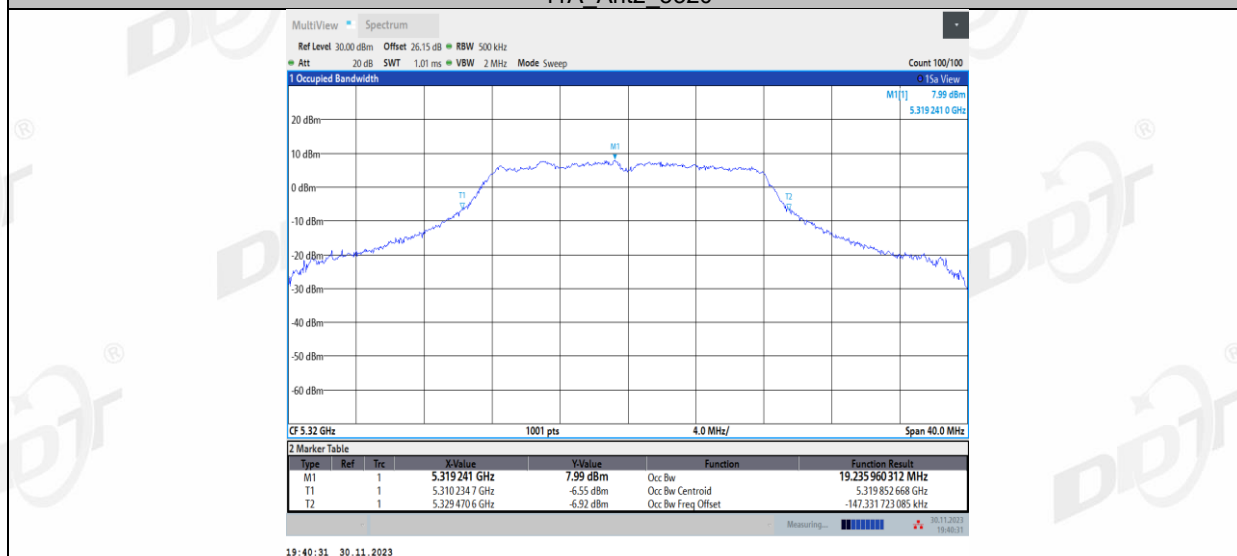
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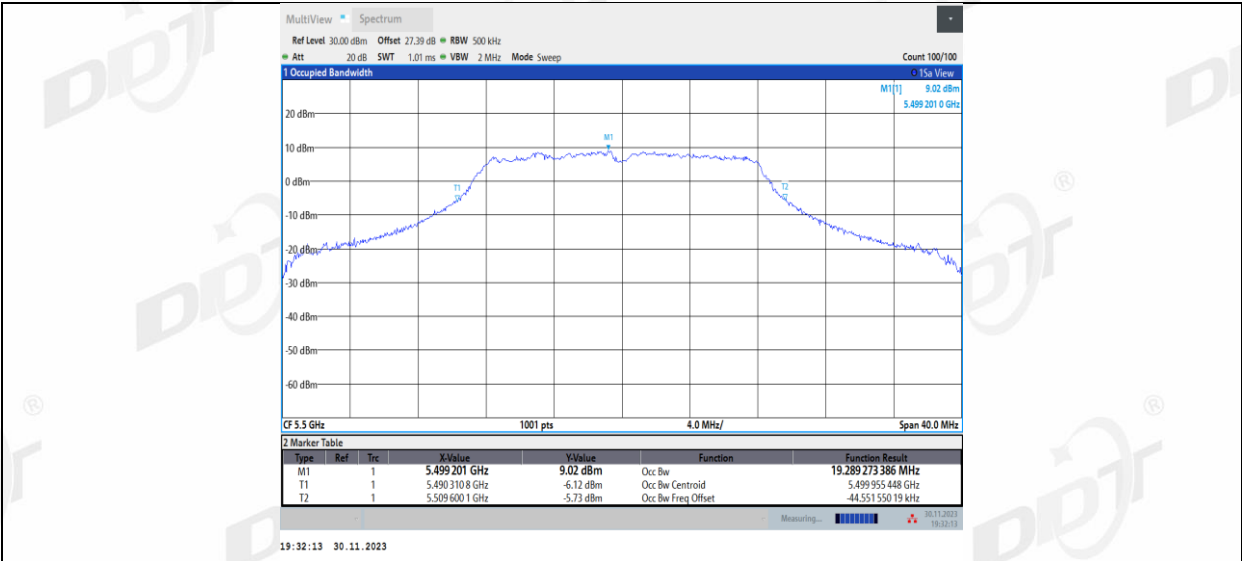
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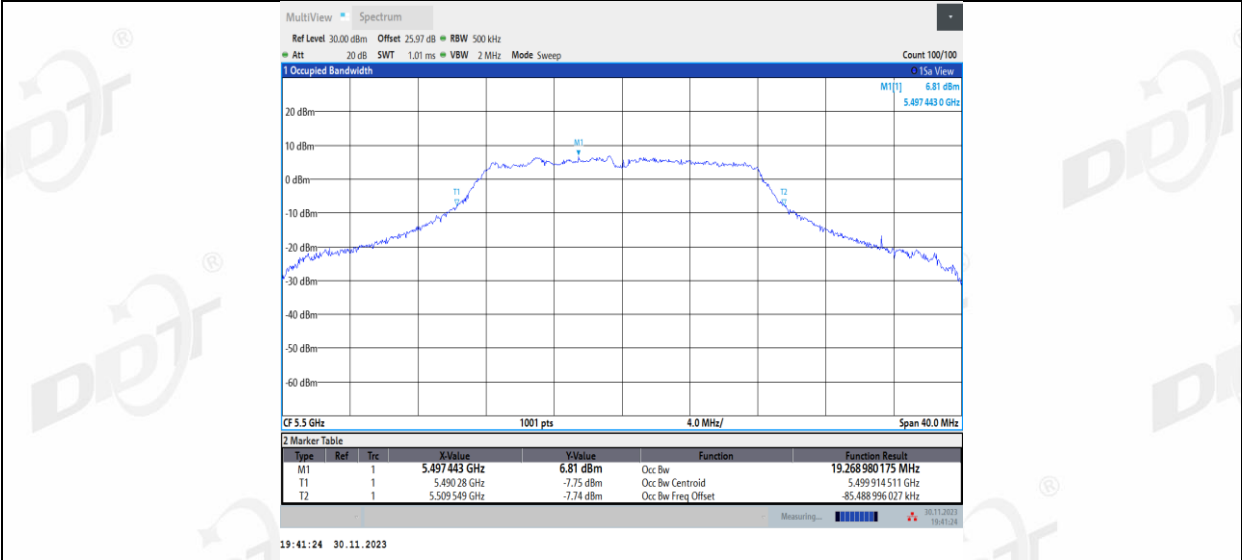
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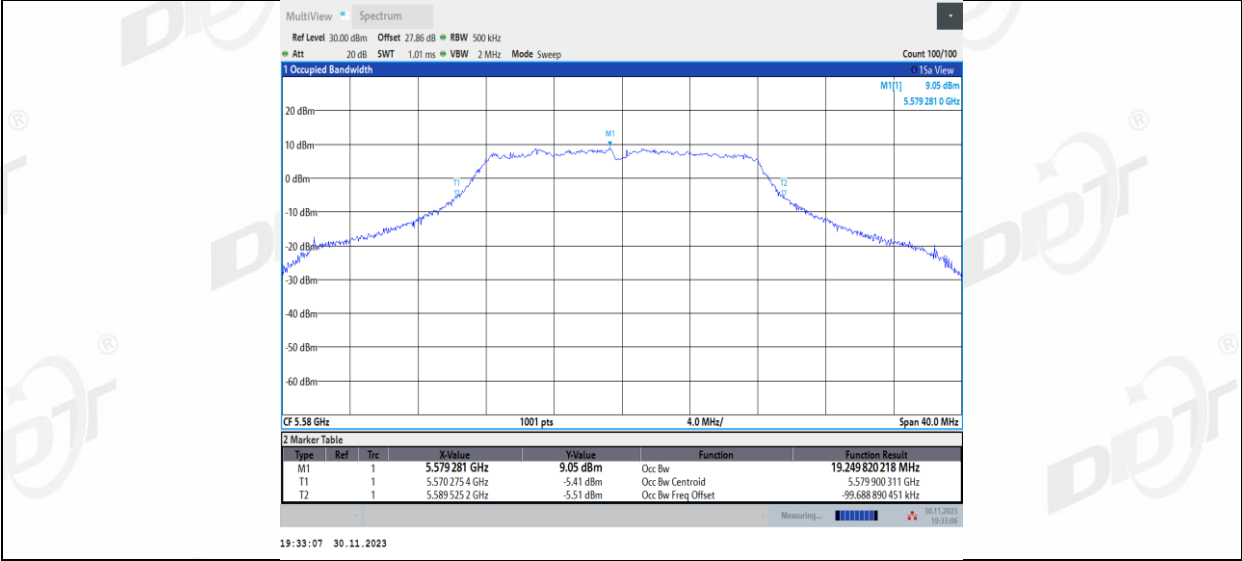
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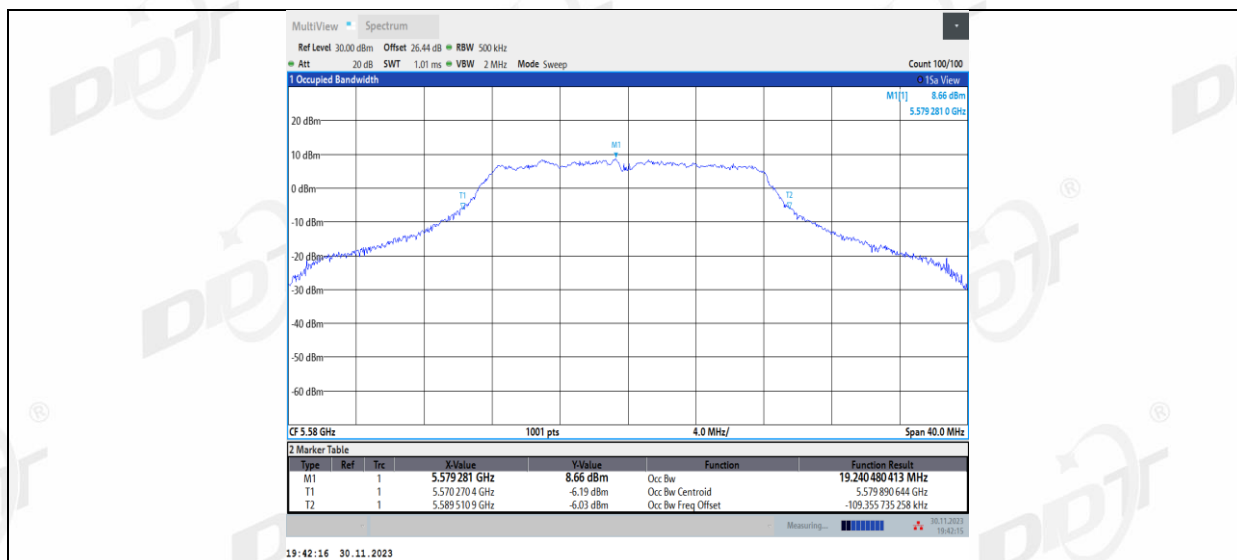
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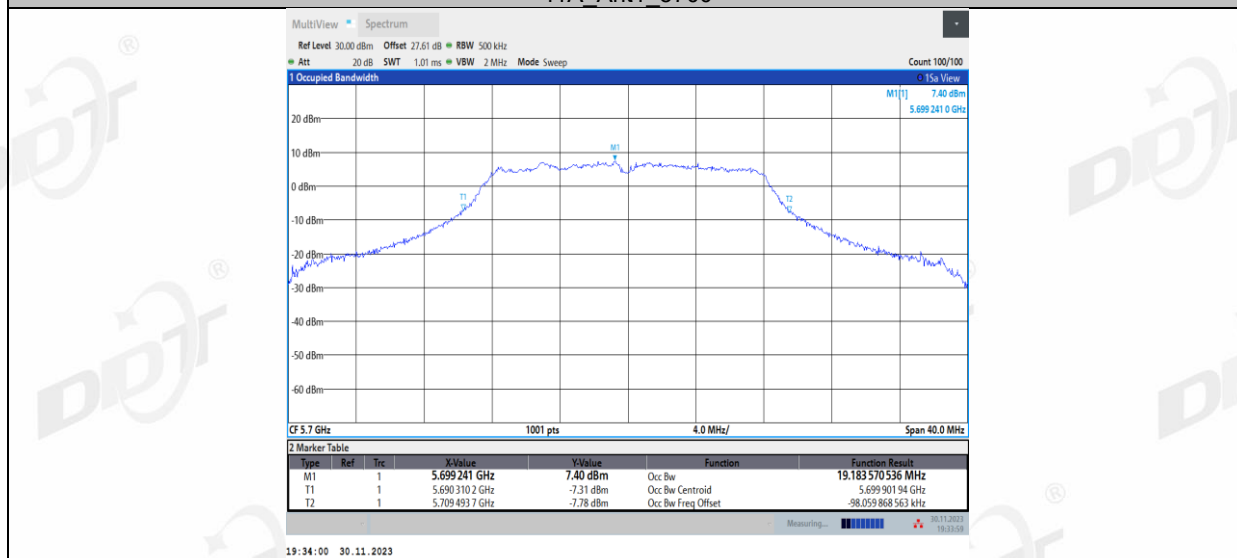
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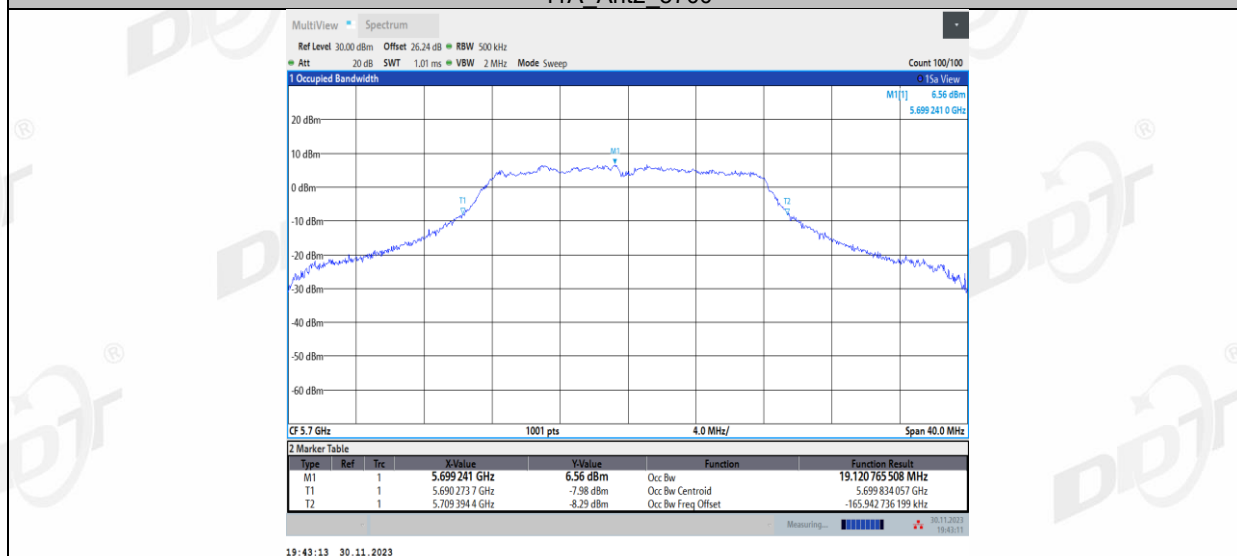
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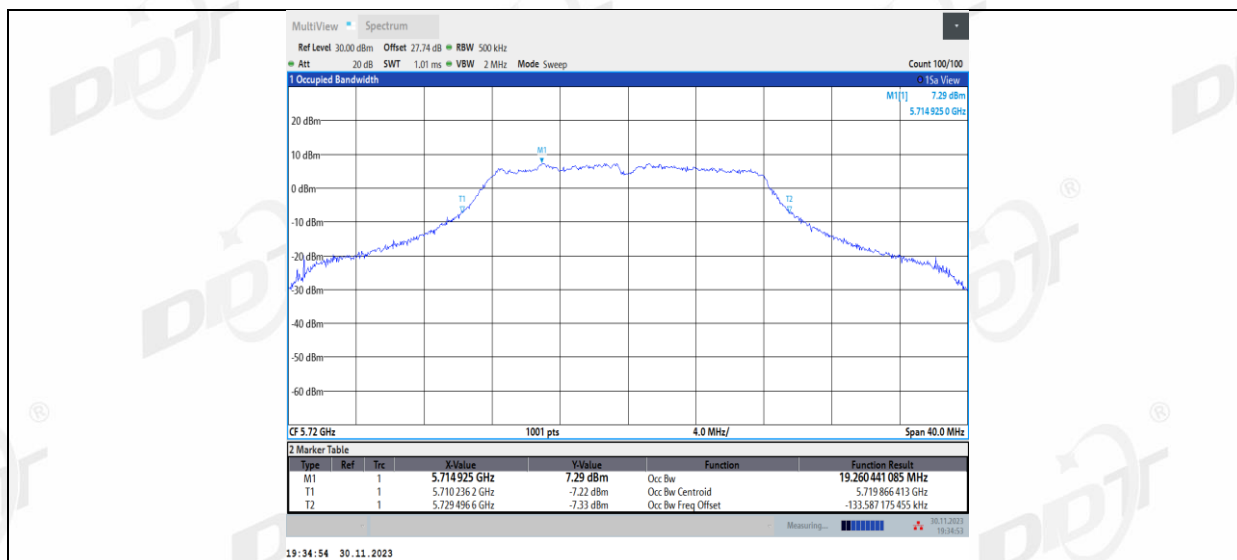
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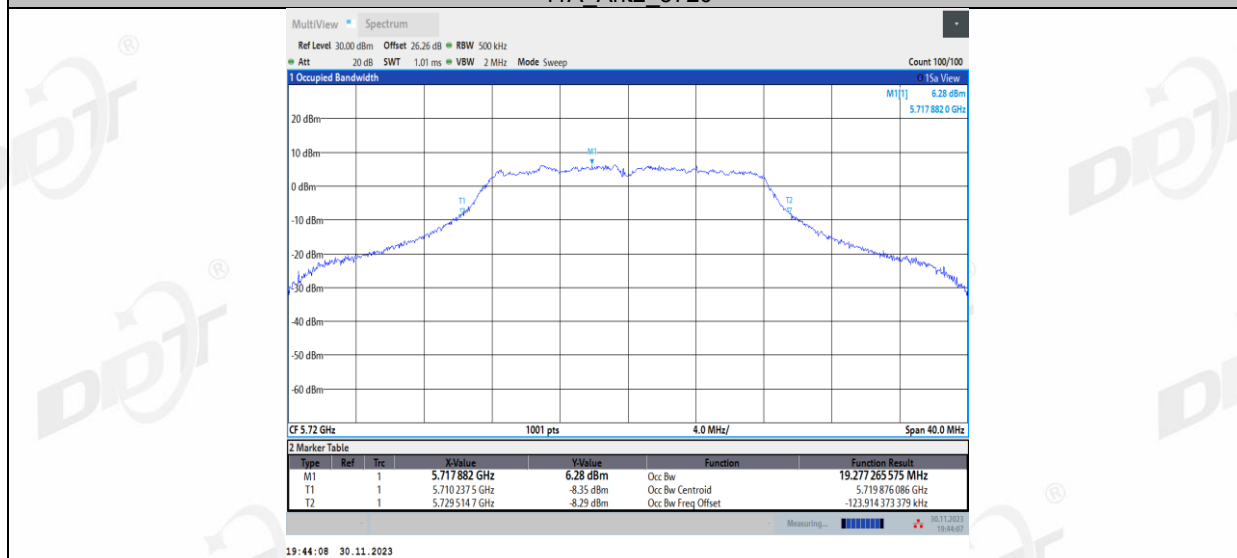
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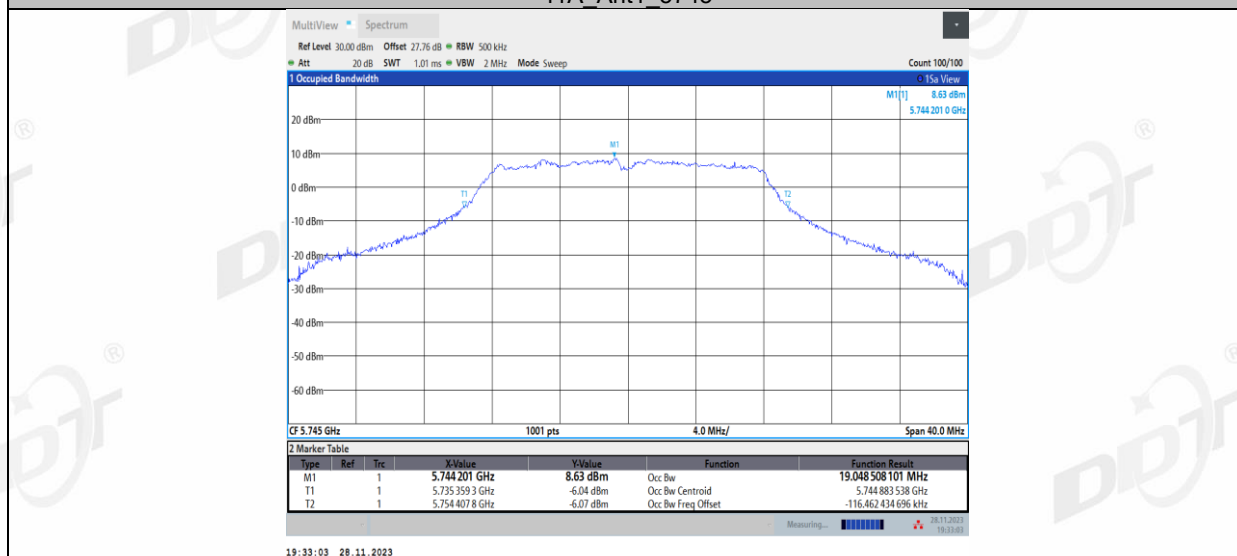
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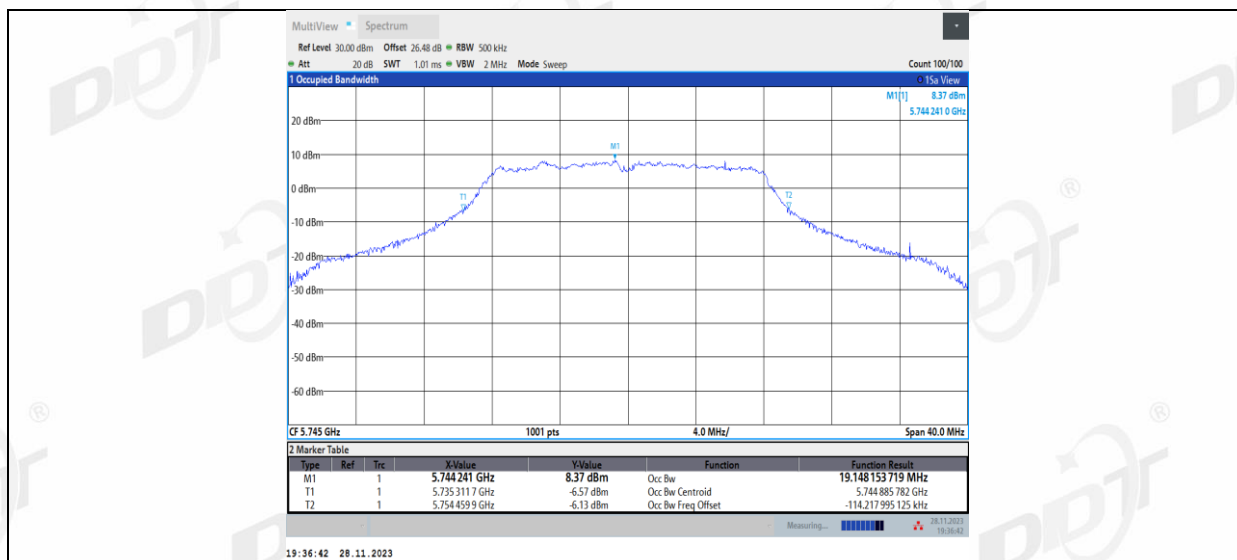
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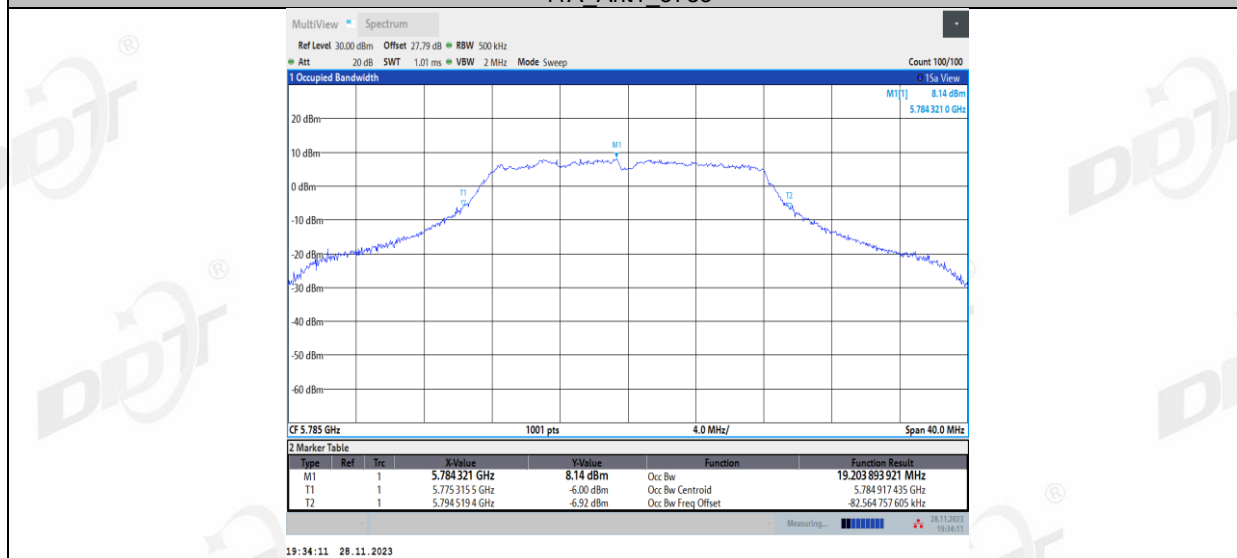
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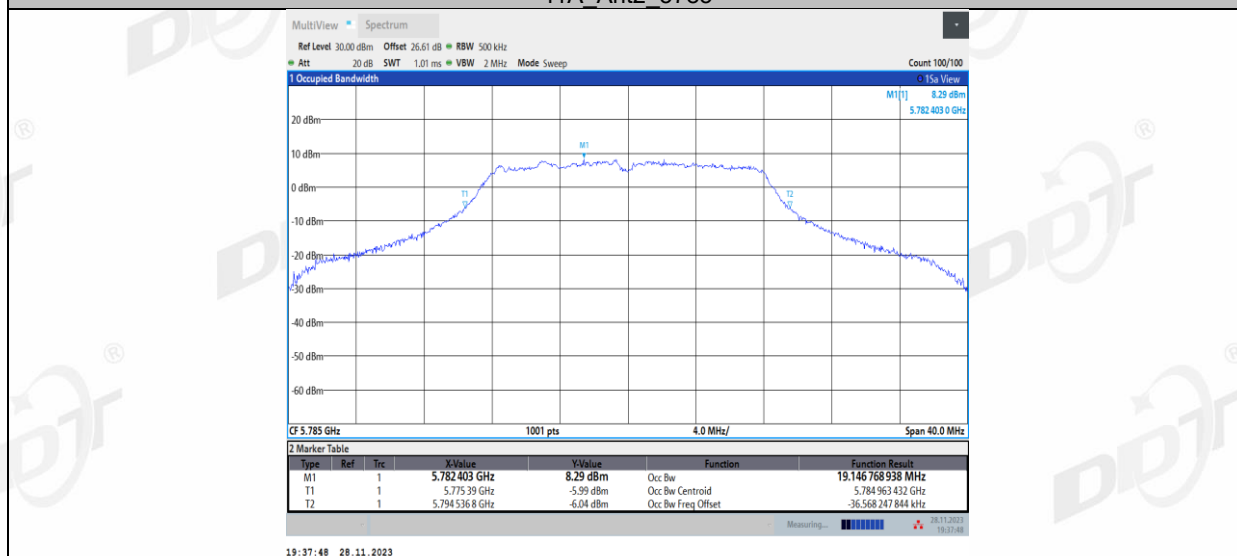
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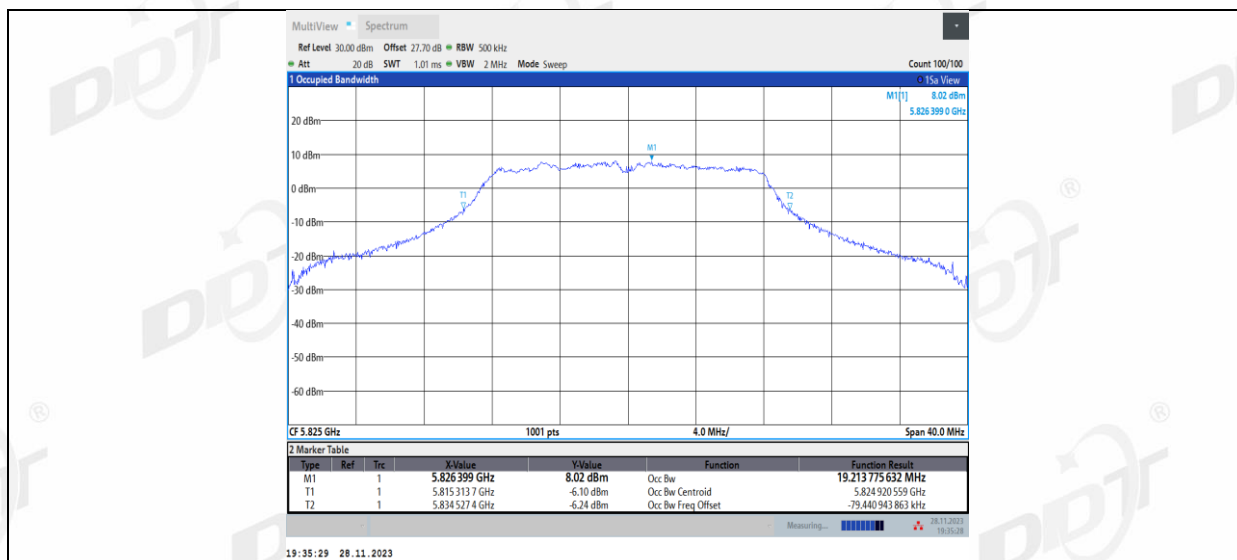
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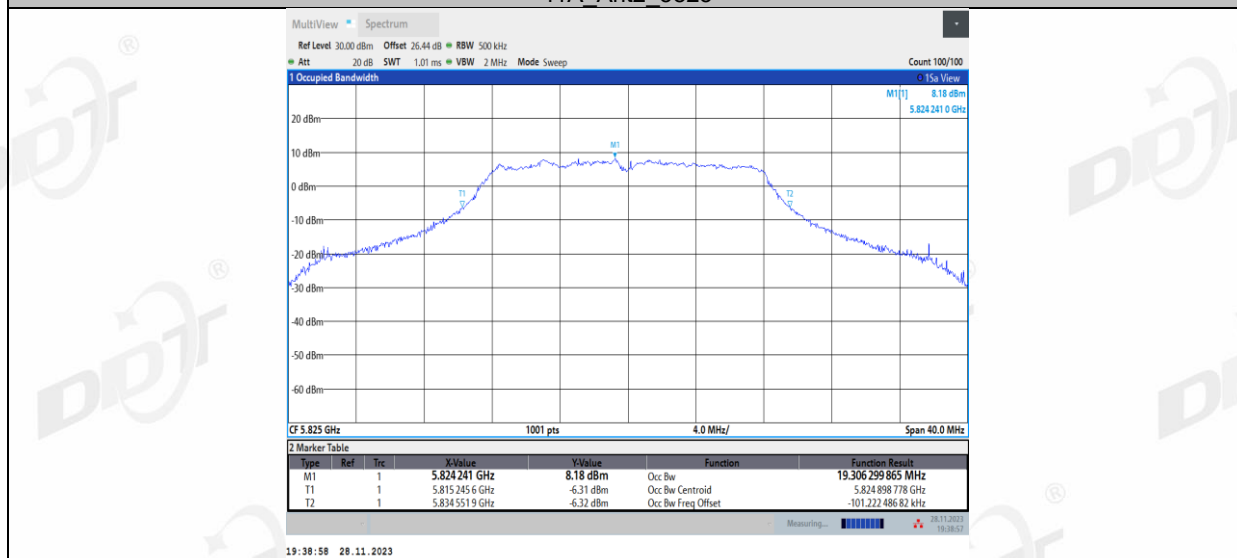
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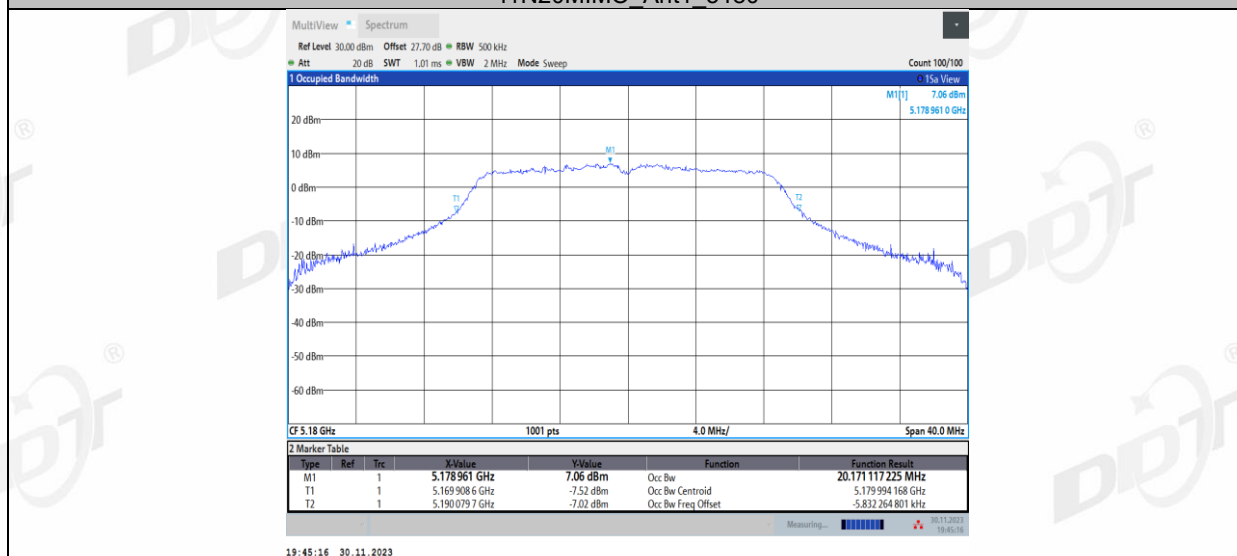
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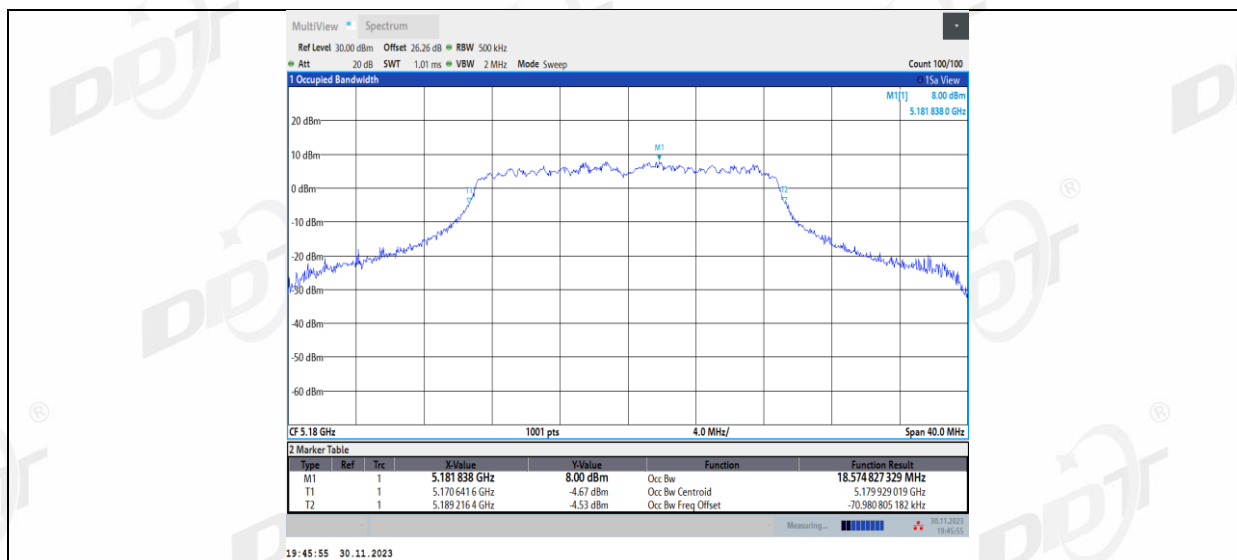
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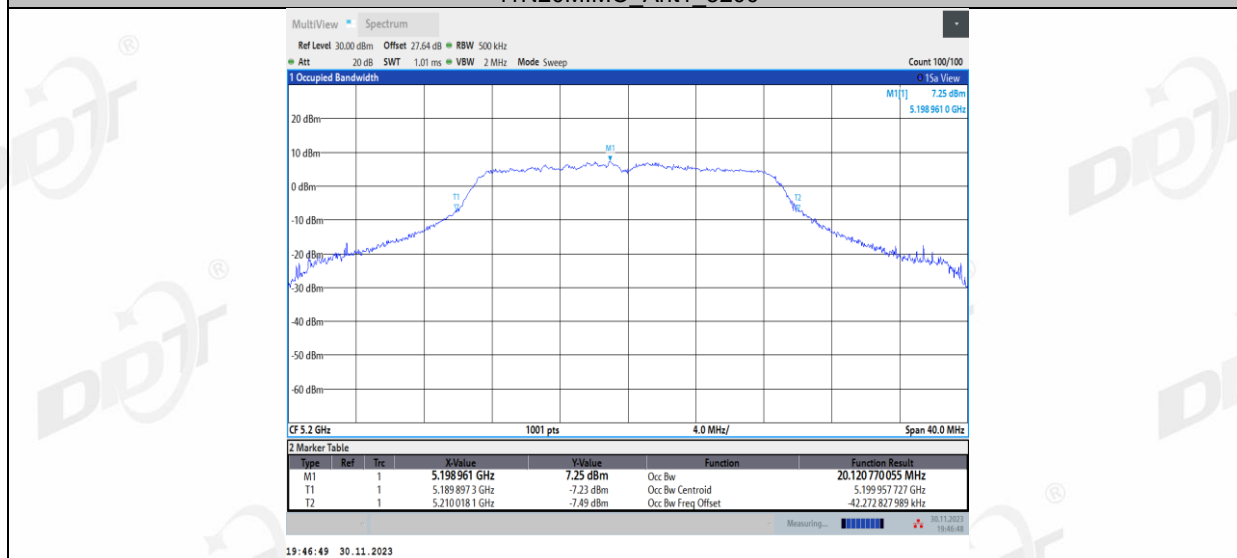
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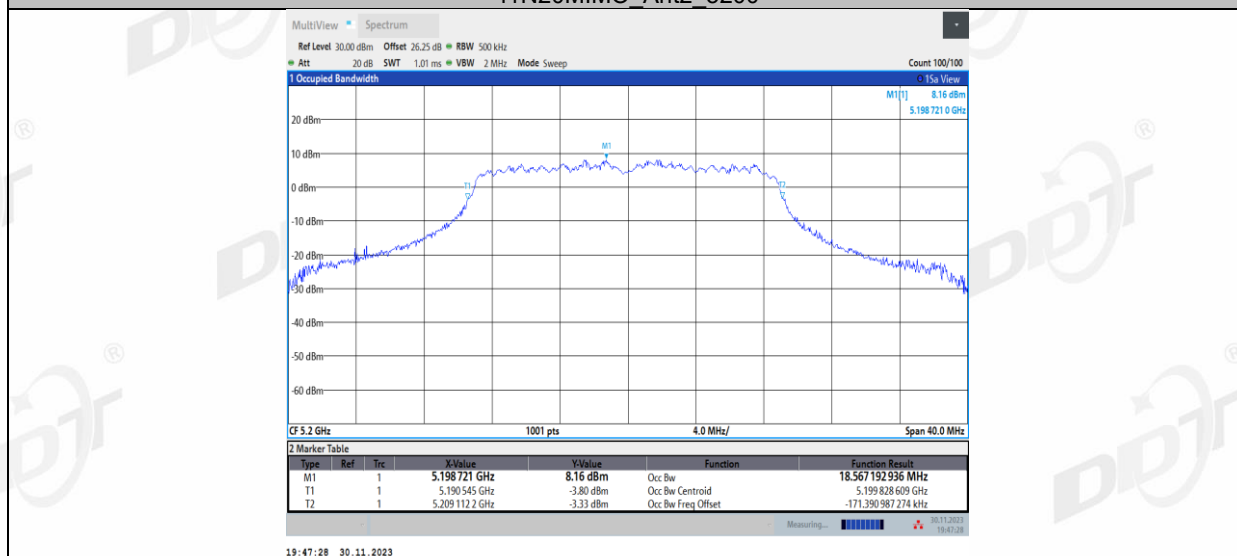
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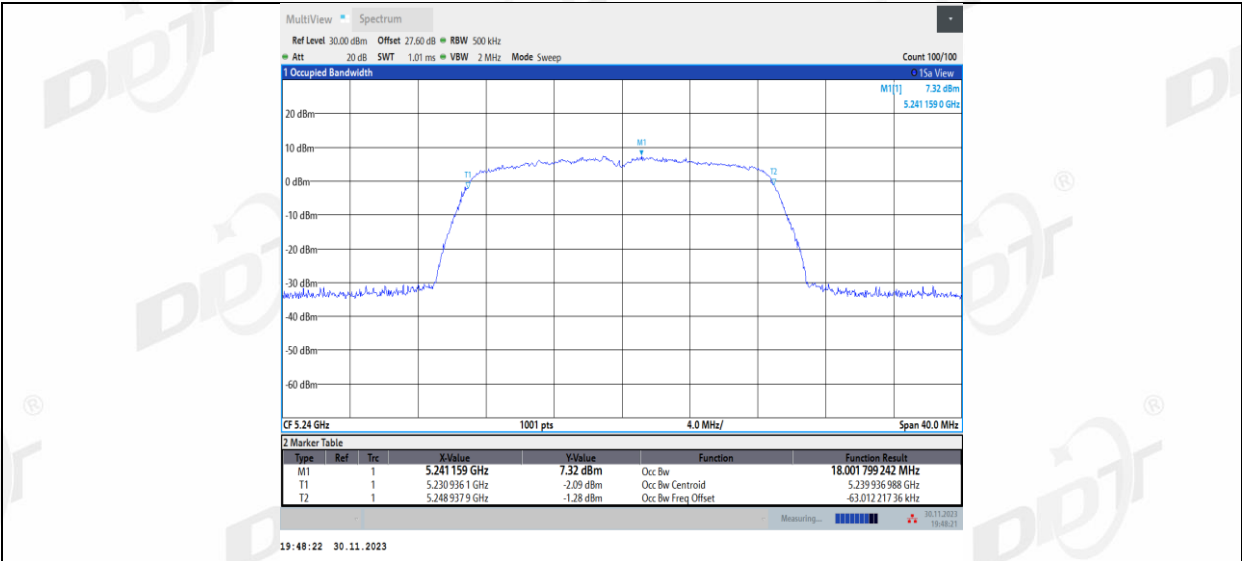
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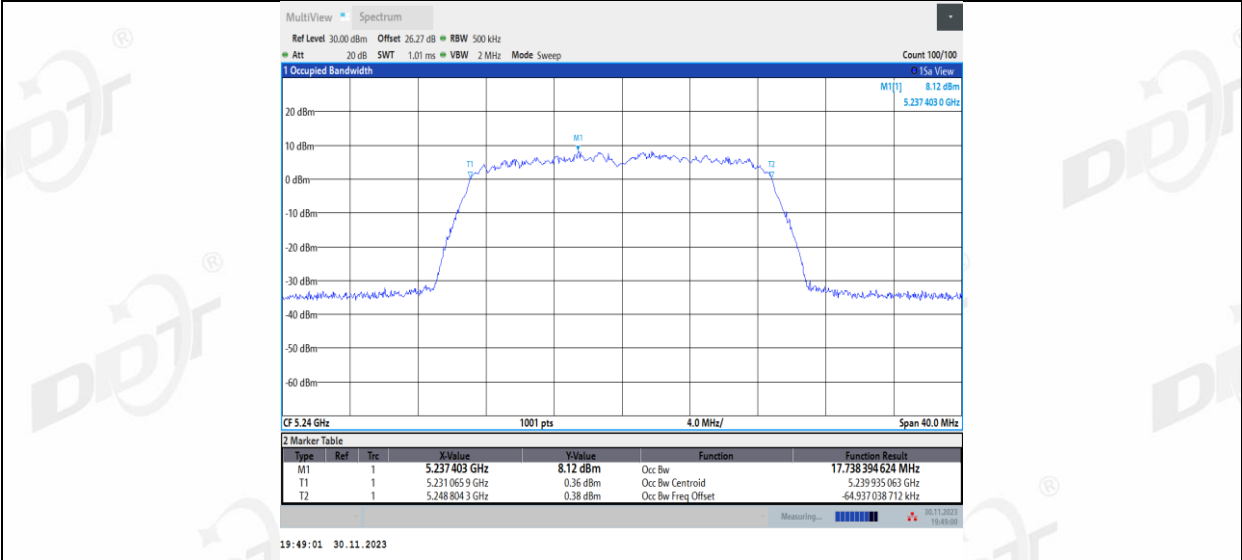
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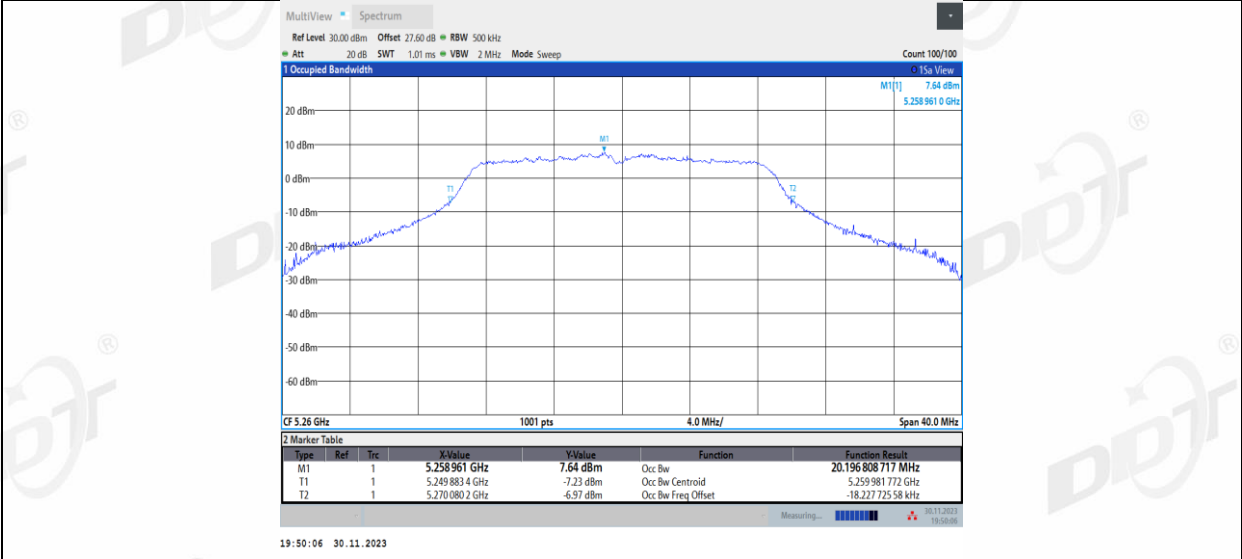
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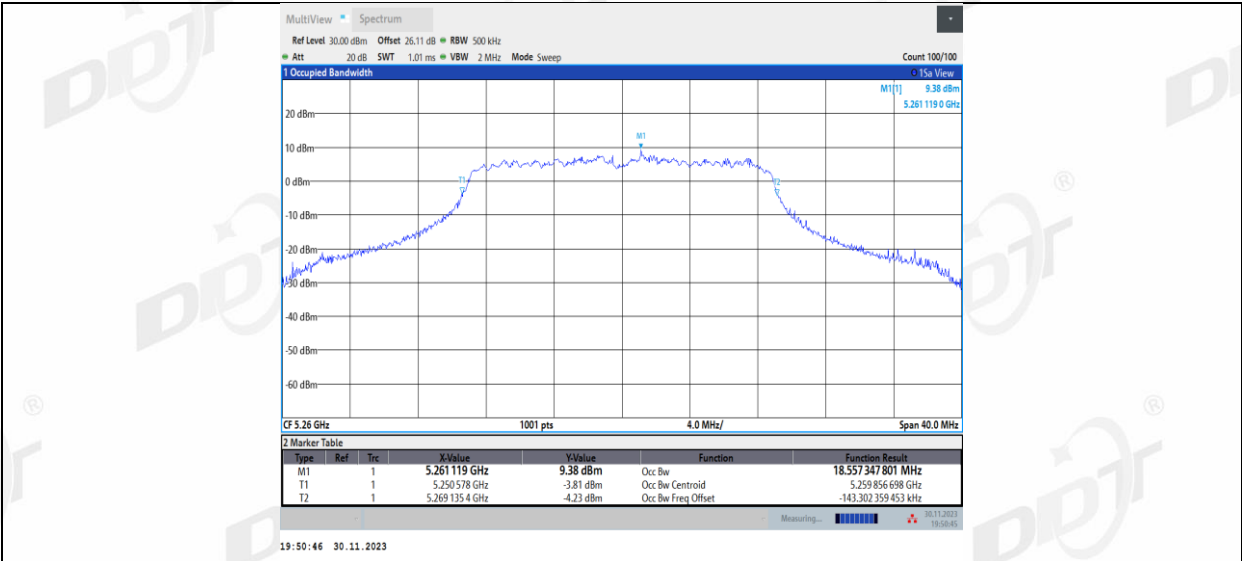
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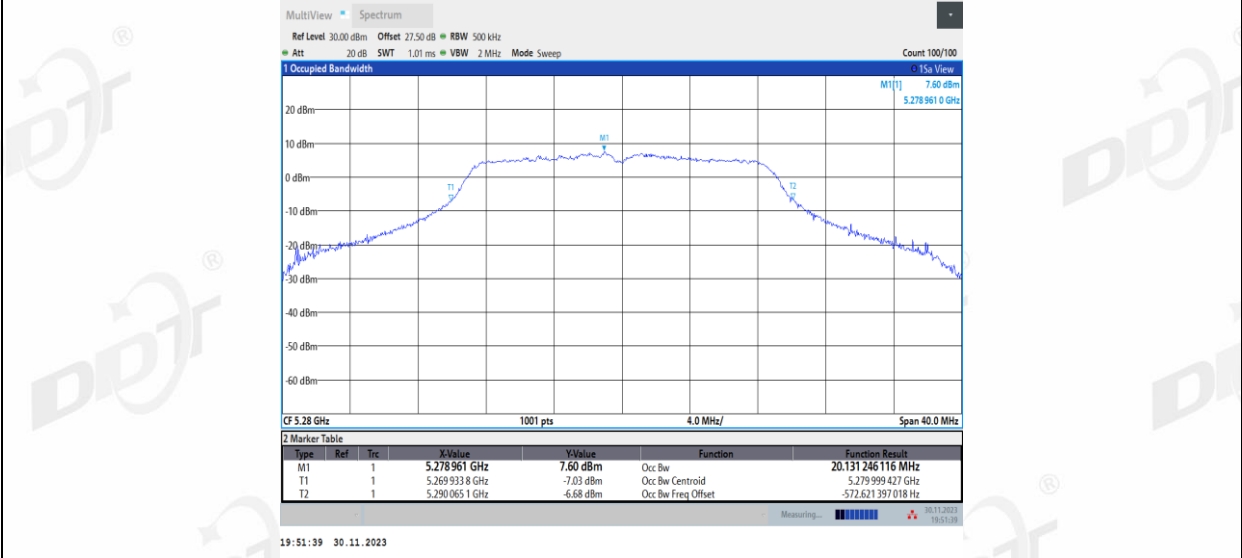
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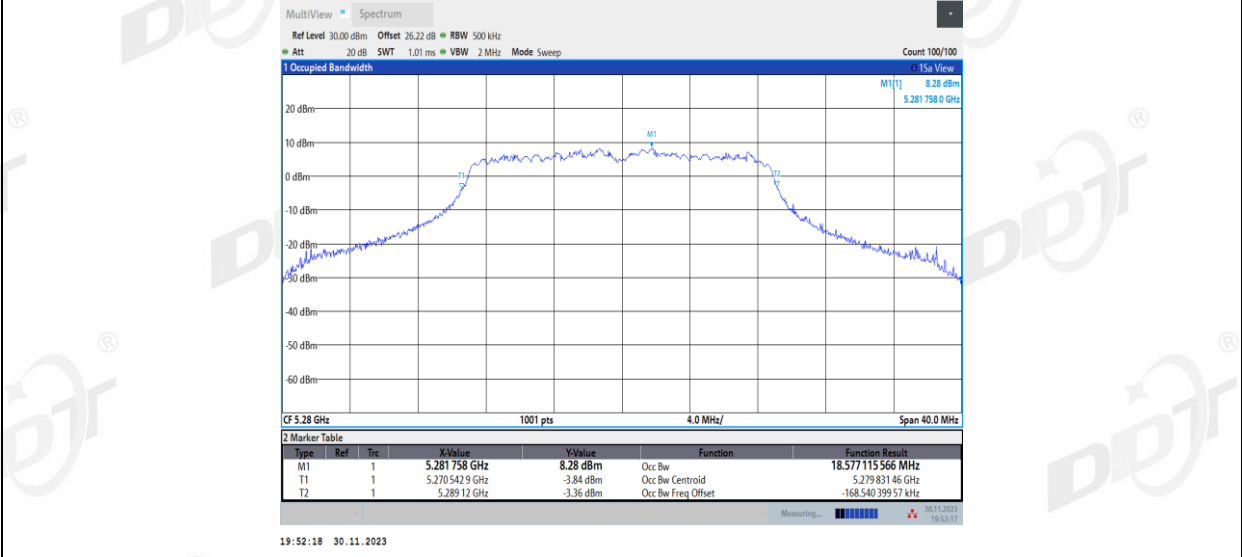
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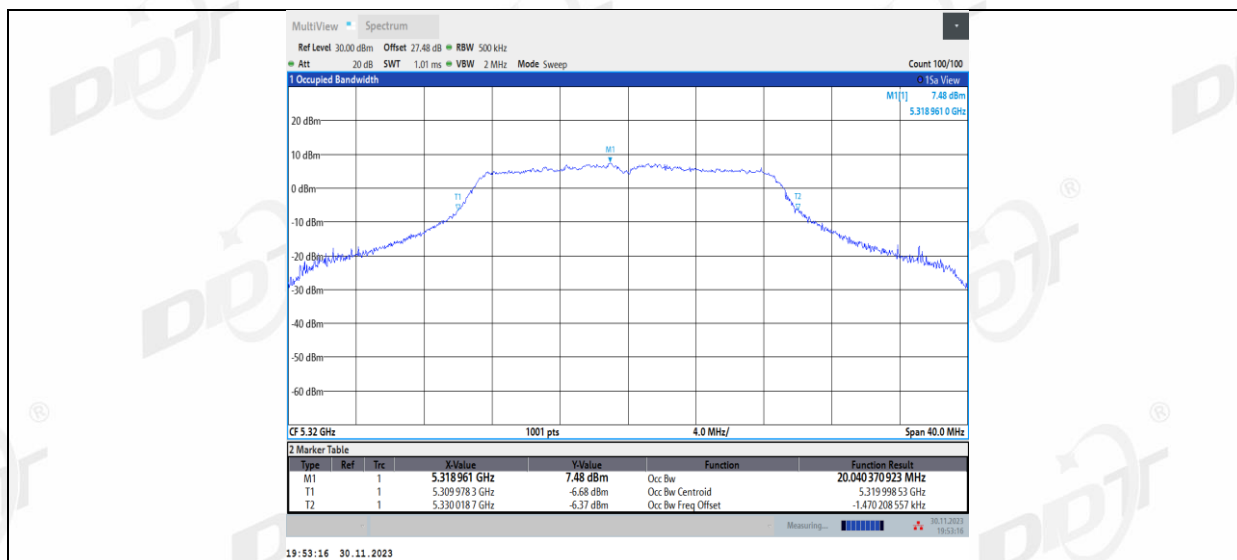
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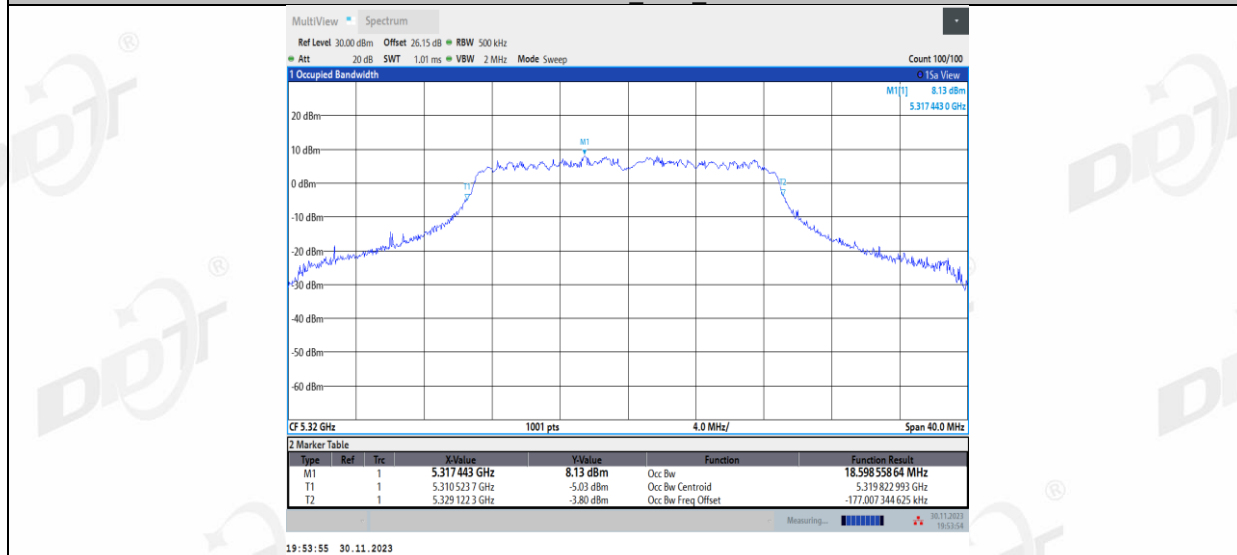
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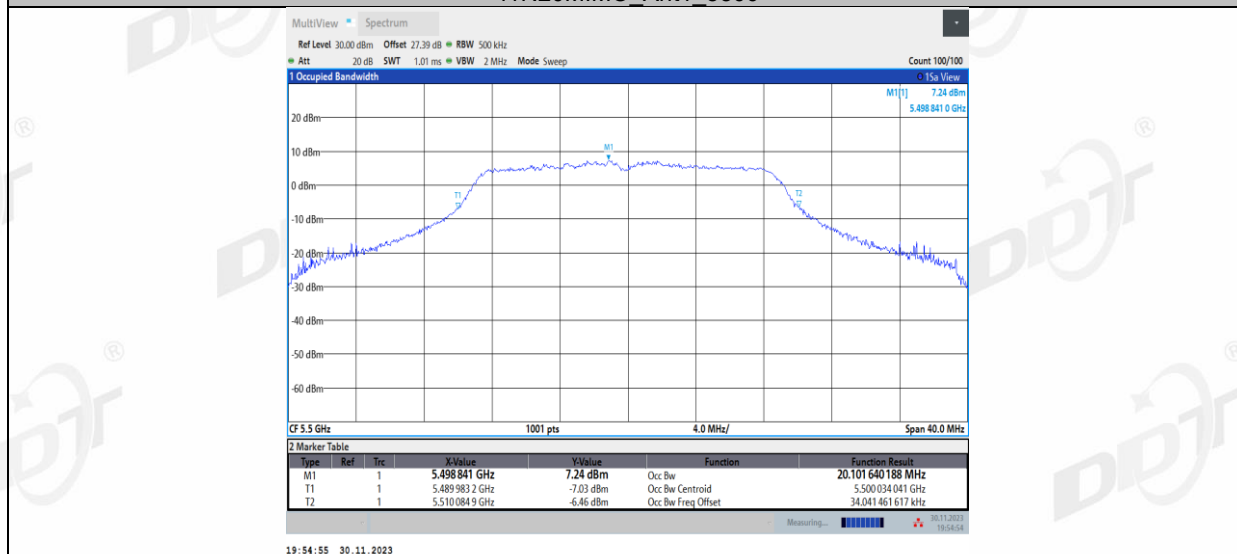
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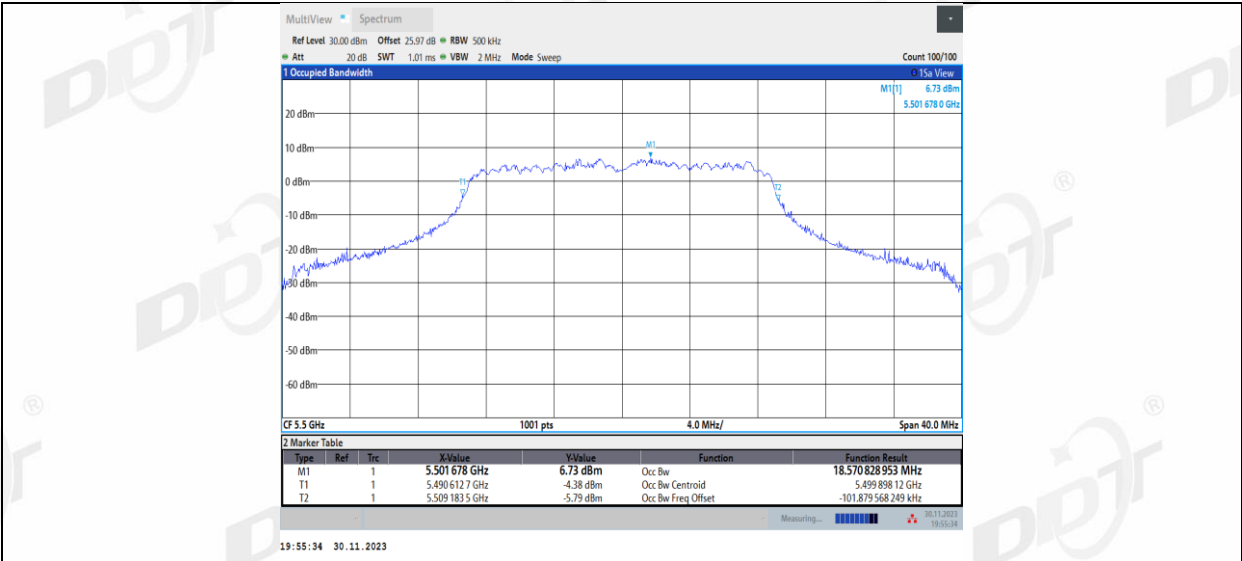
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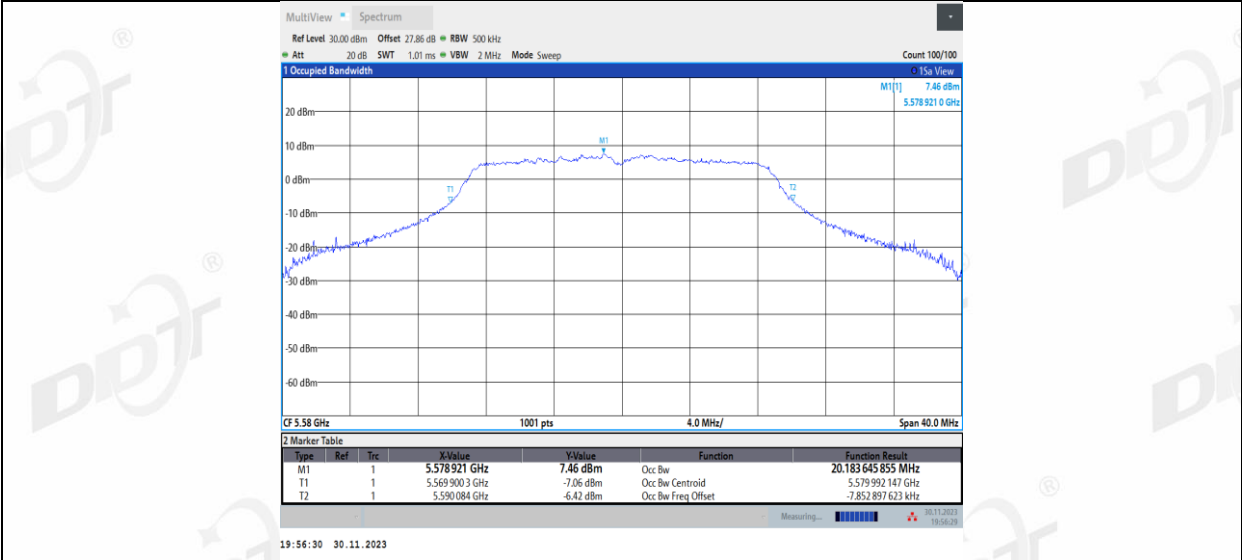
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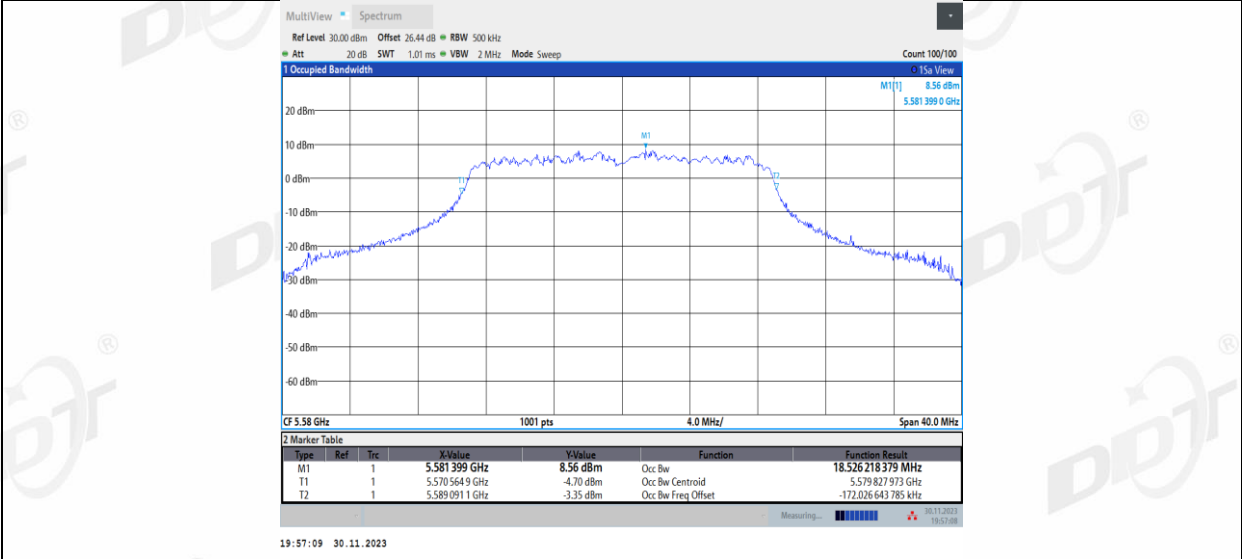
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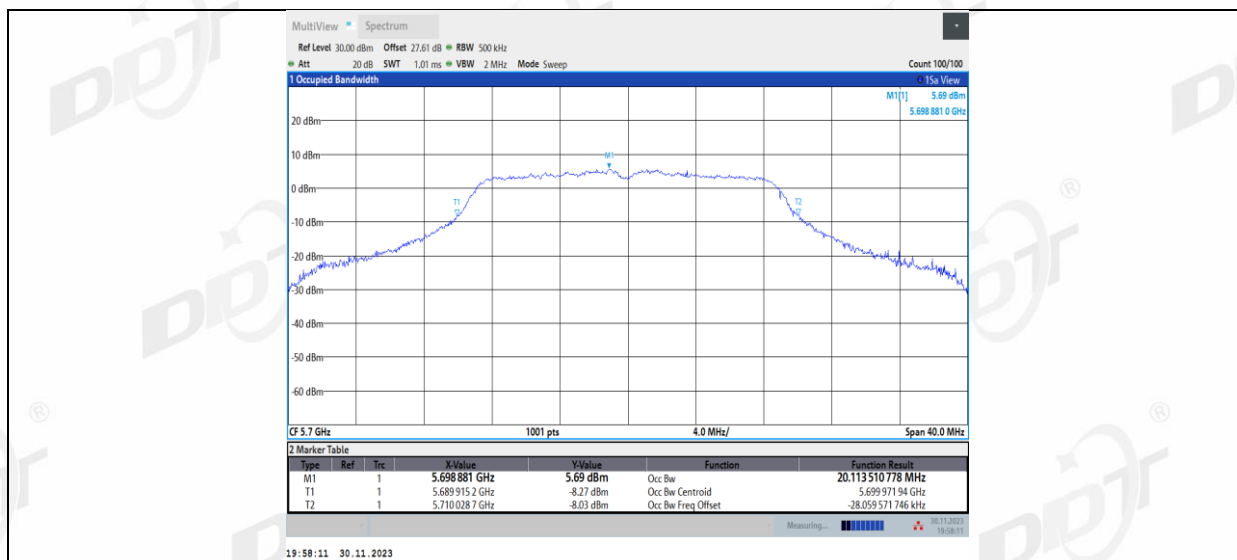
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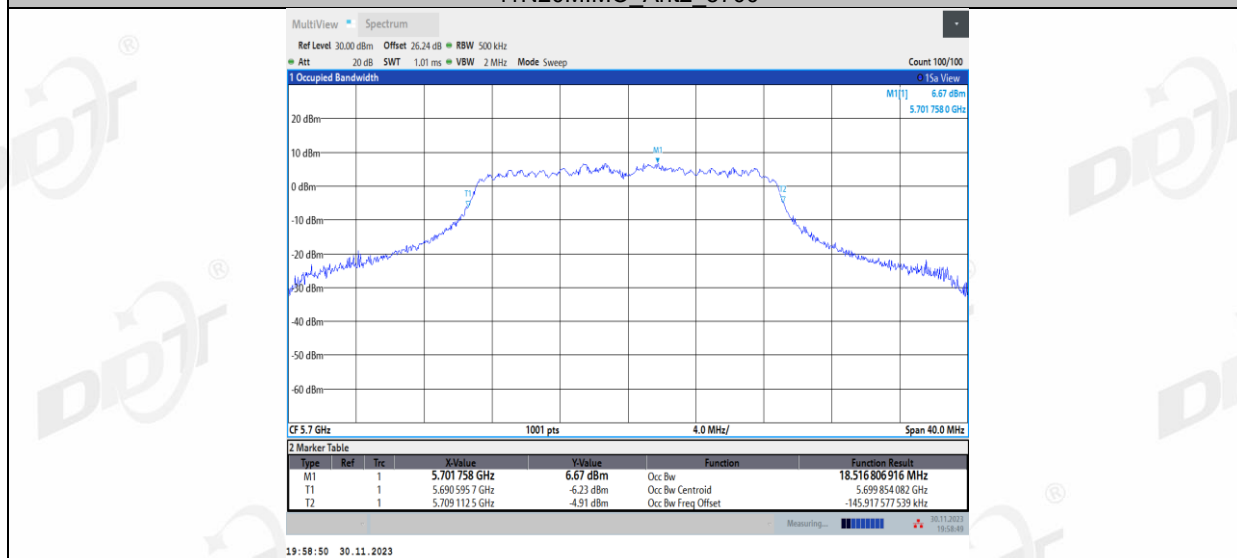
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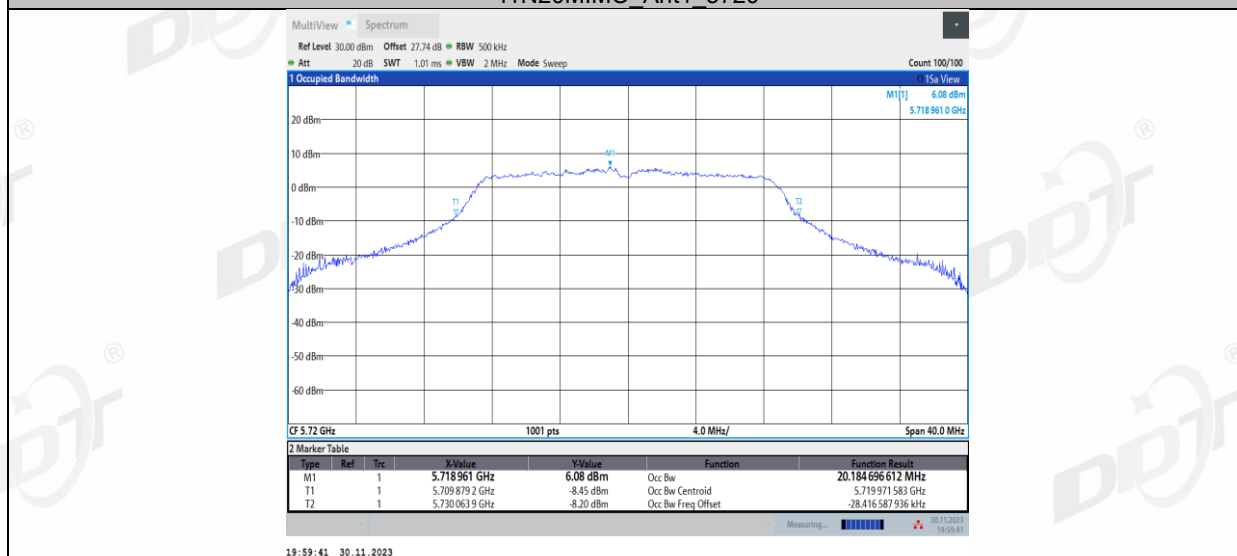
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11N20MIMO_Ant2_5700



11N20MIMO_Ant1_5720



11N20MIMO_Ant2_5720