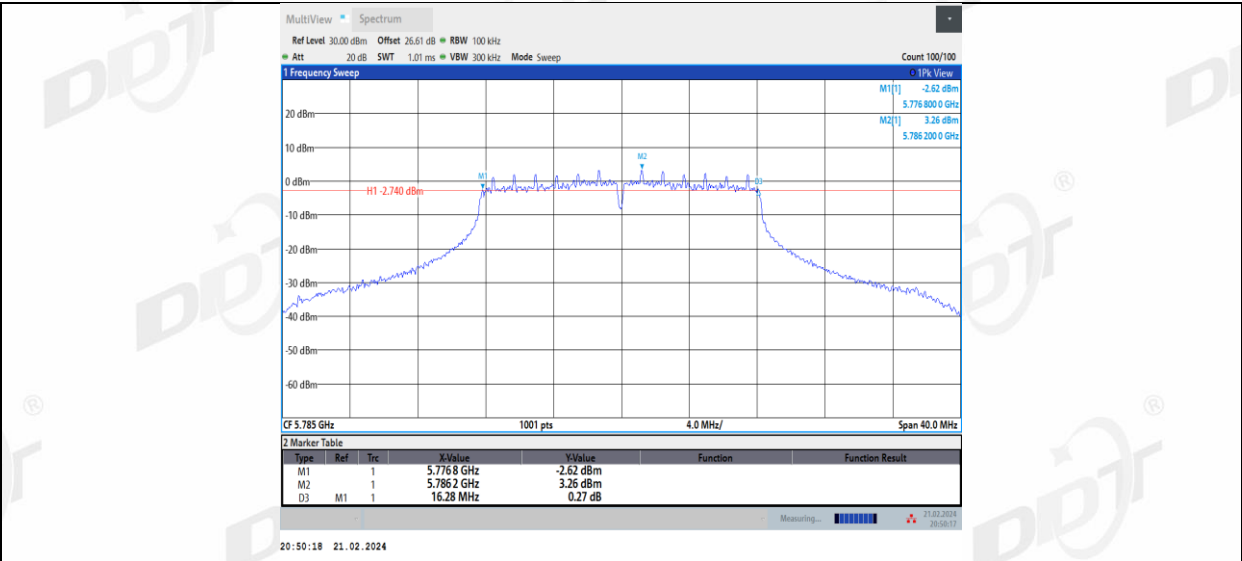
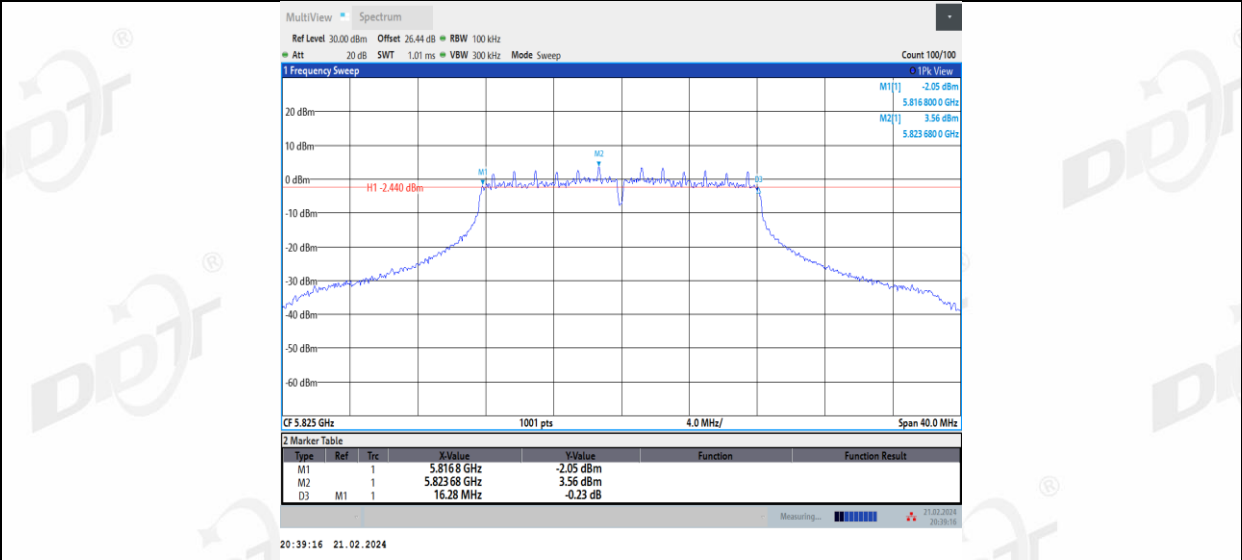
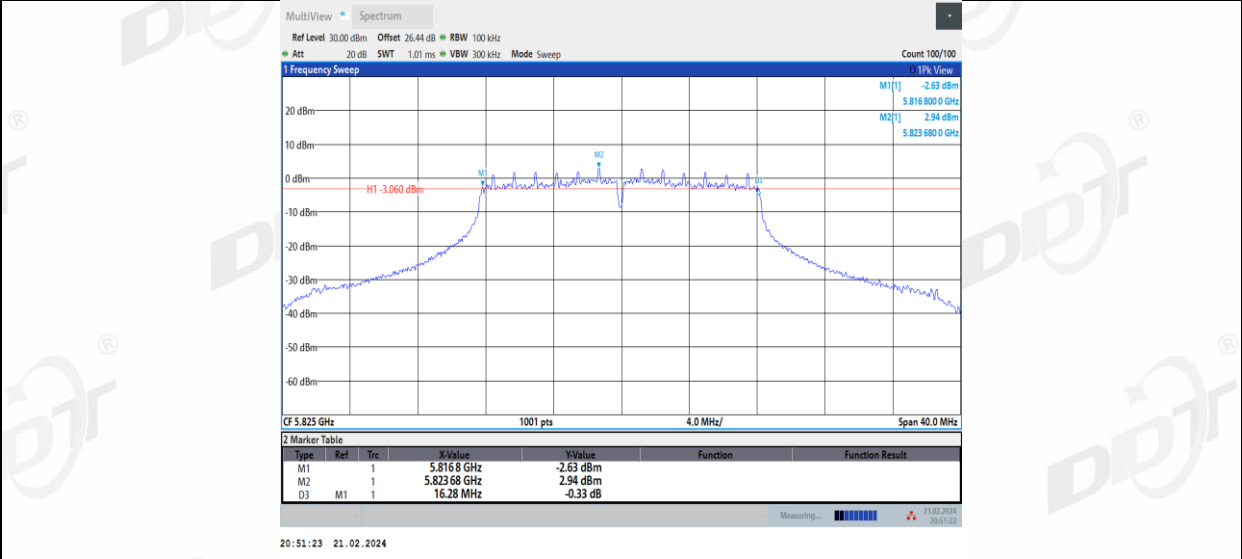




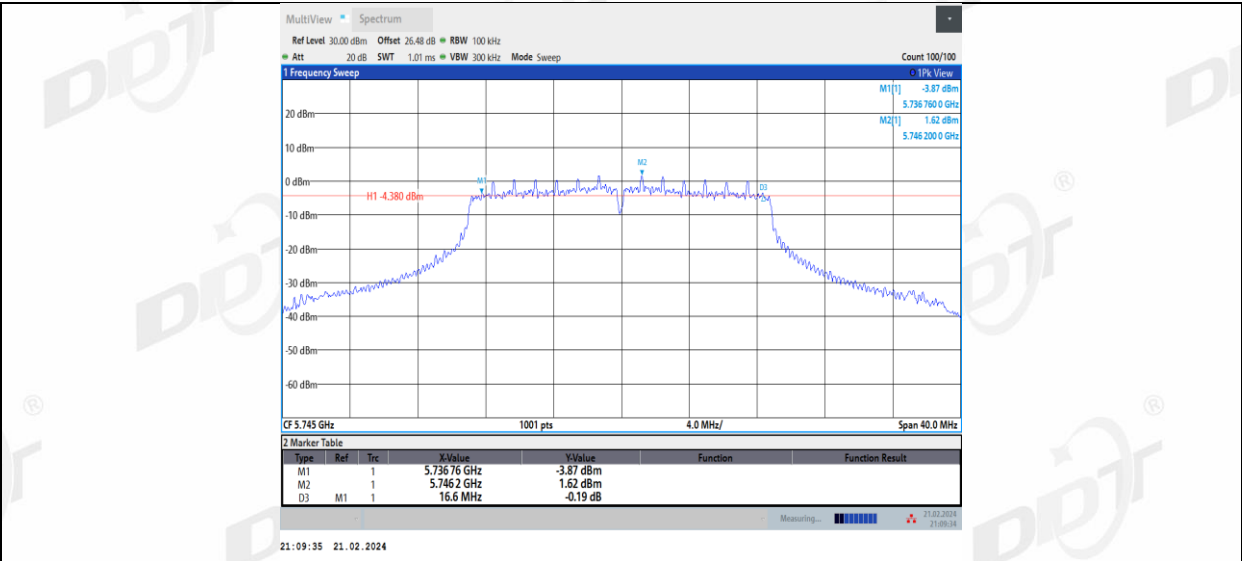
11A_Ant1_5825



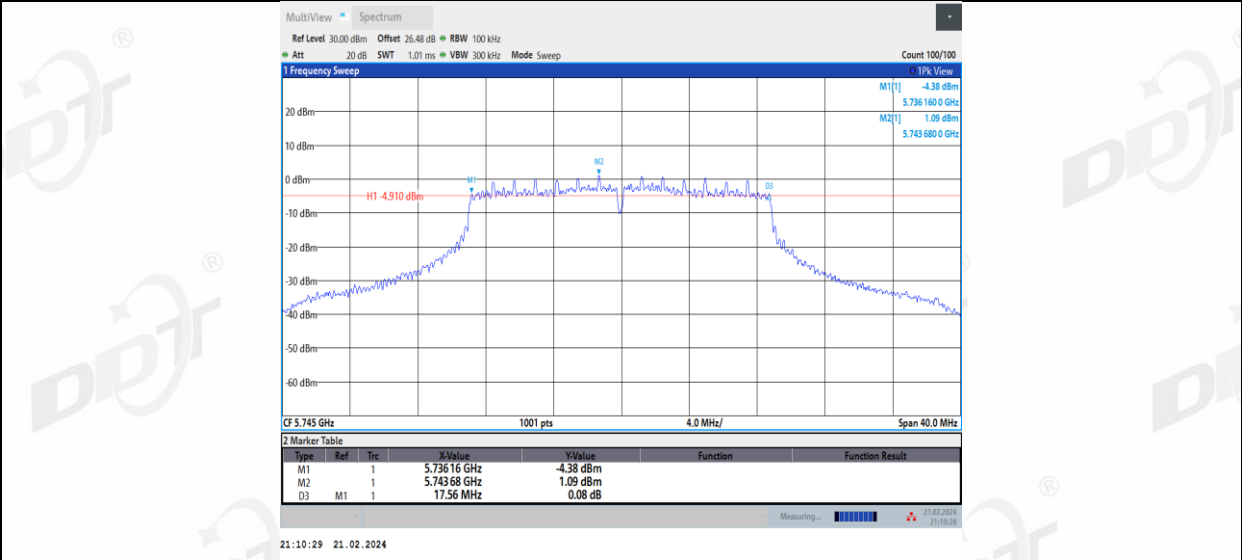
11A_Ant2_5825



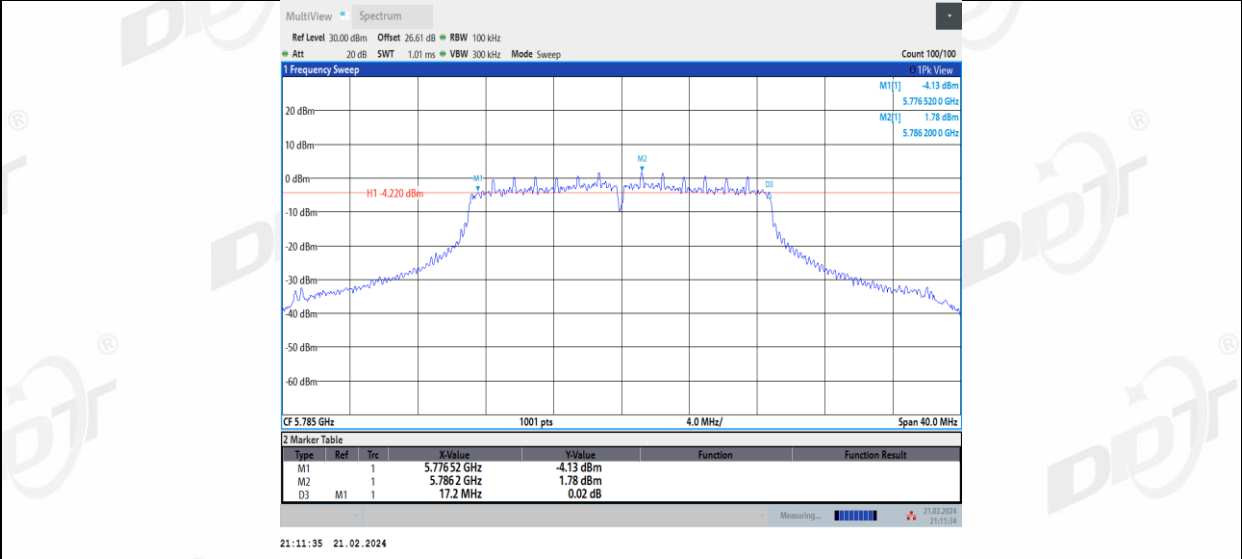
11N20MIMO_Ant1_5745



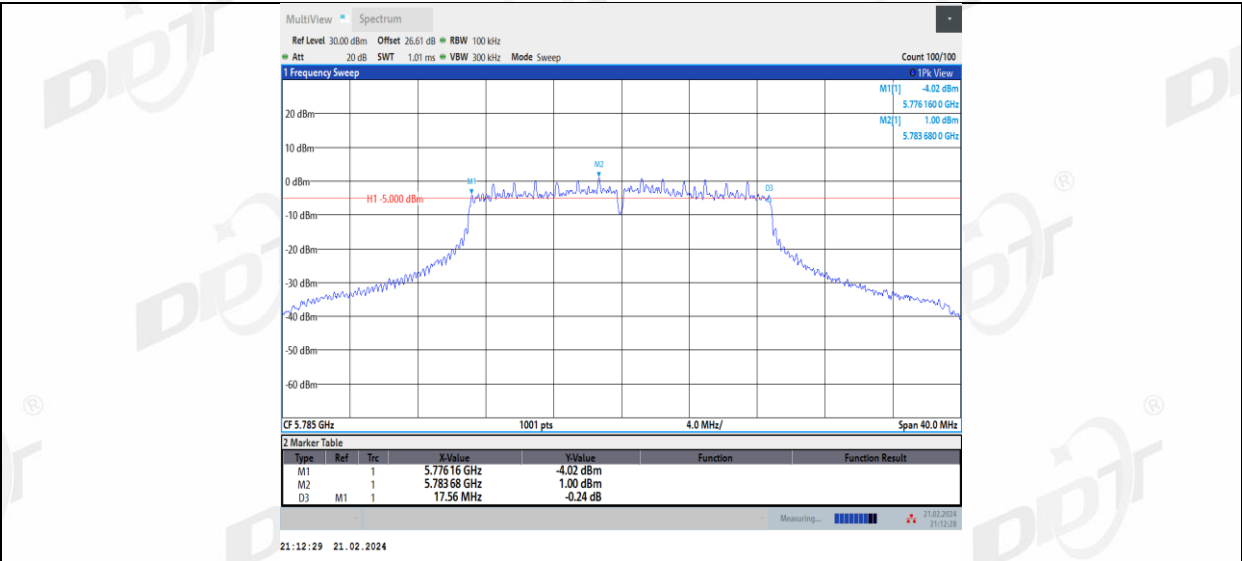
11N20MIMO_Ant2_5745



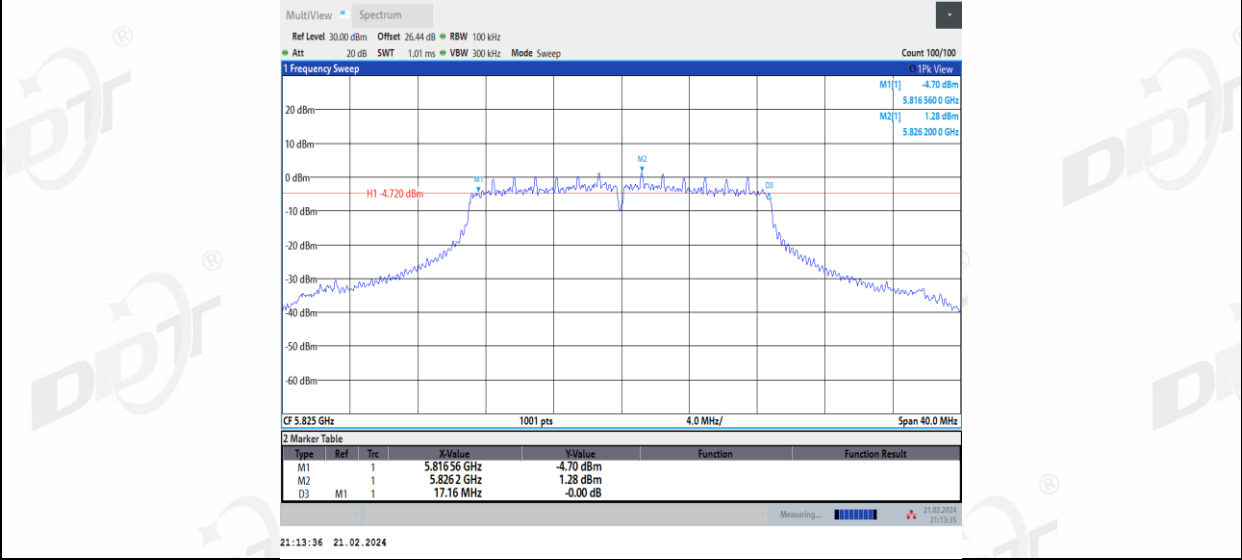
11N20MIMO_Ant1_5785



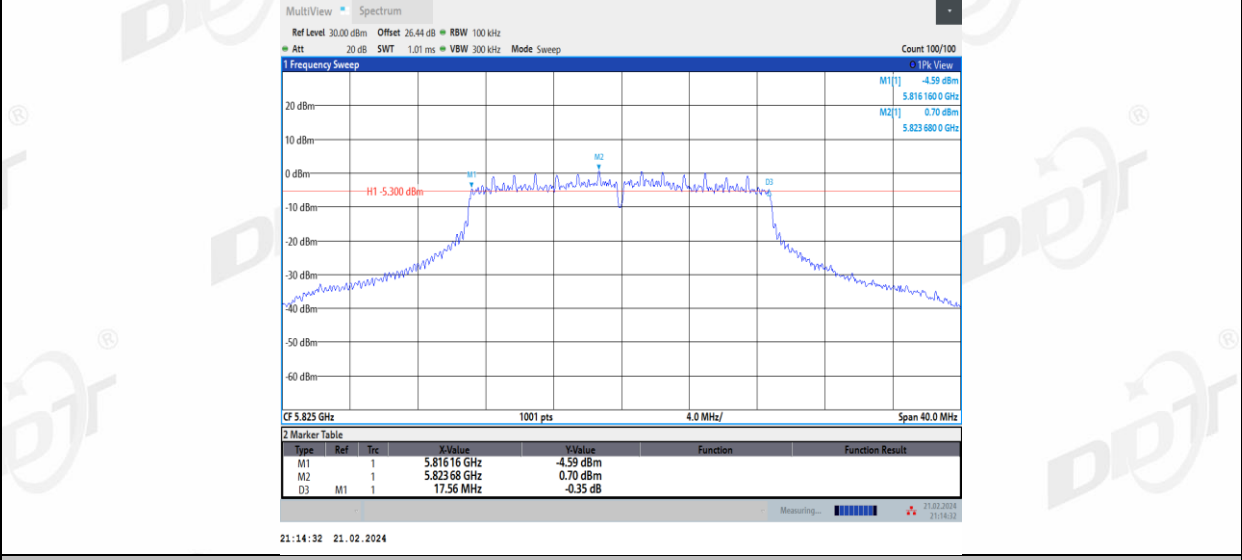
11N20MIMO_Ant2_5785



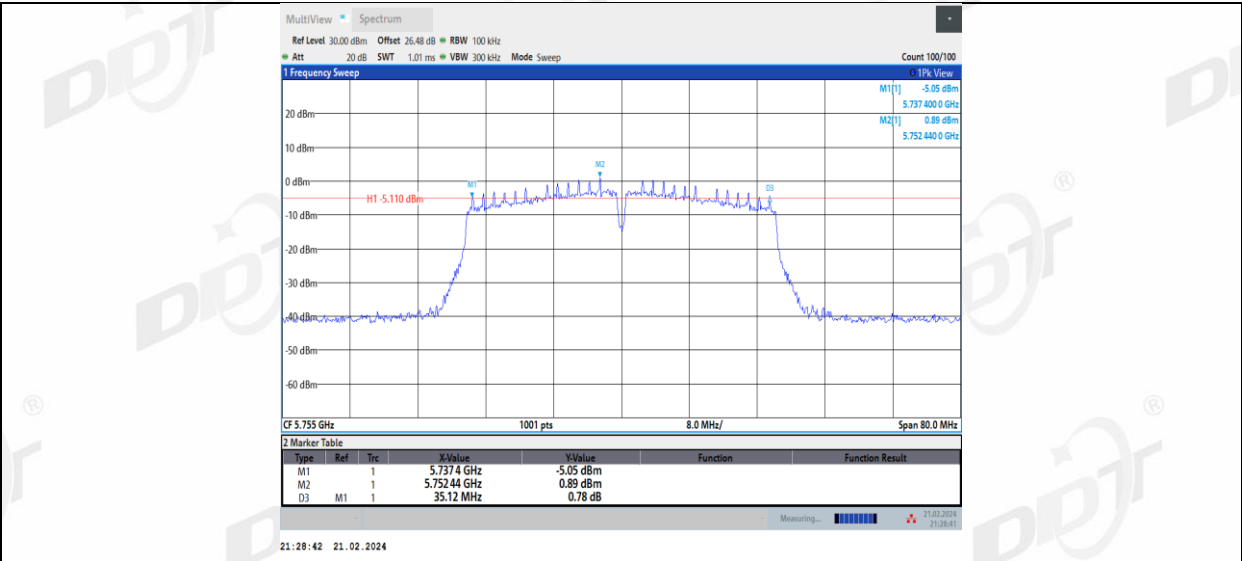
11N20MIMO_Ant1_5825



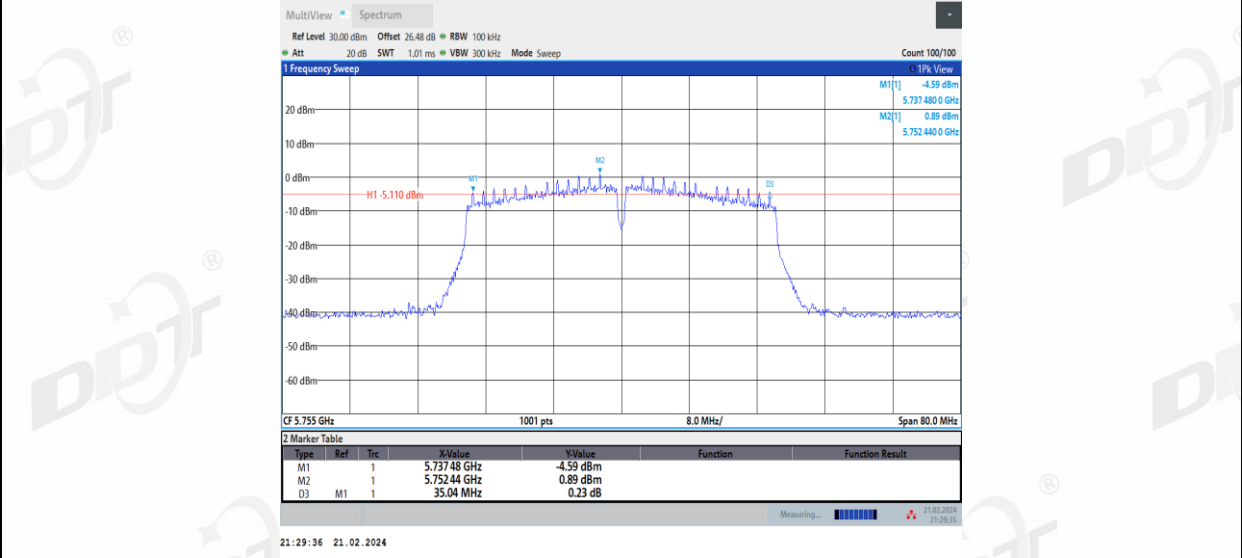
11N20MIMO_Ant2_5825



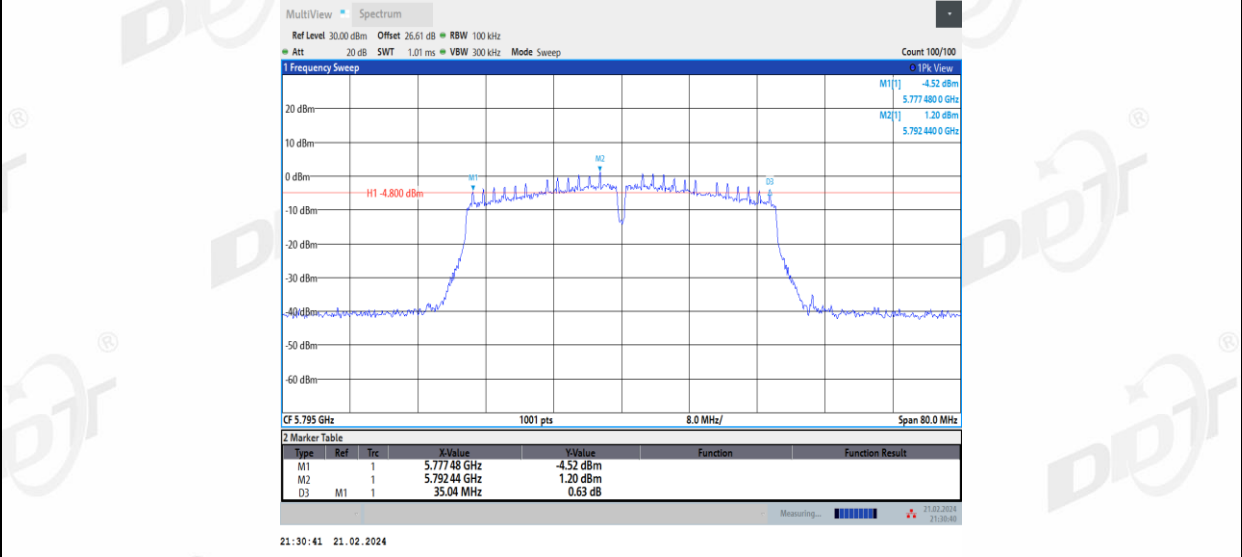
11N40MIMO_Ant1_5755



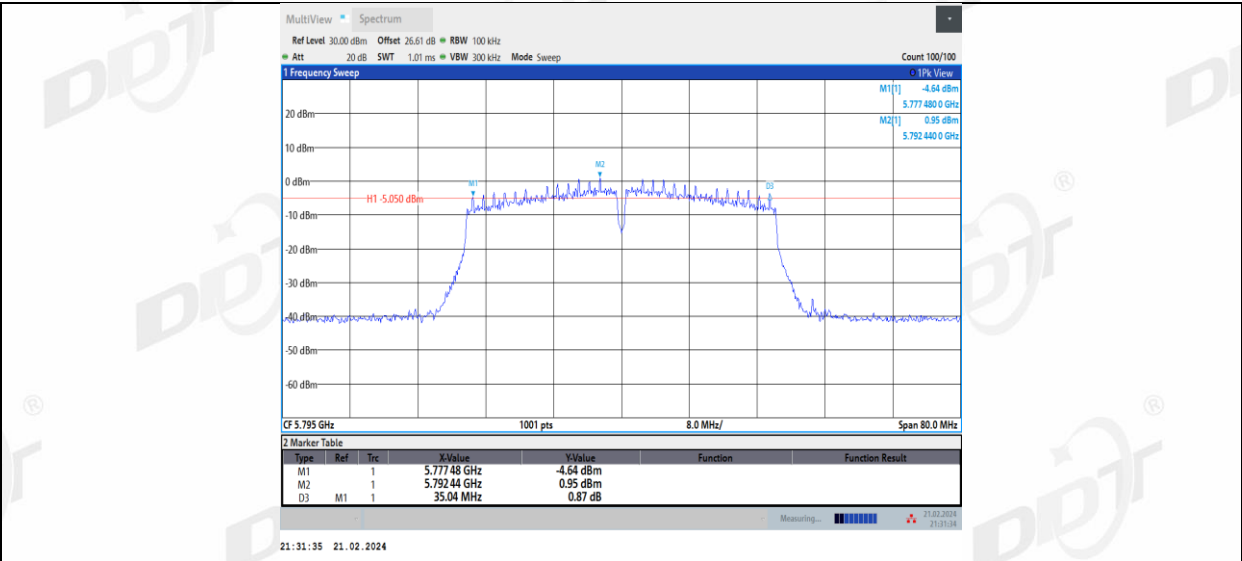
11N40MIMO_Ant2_5755



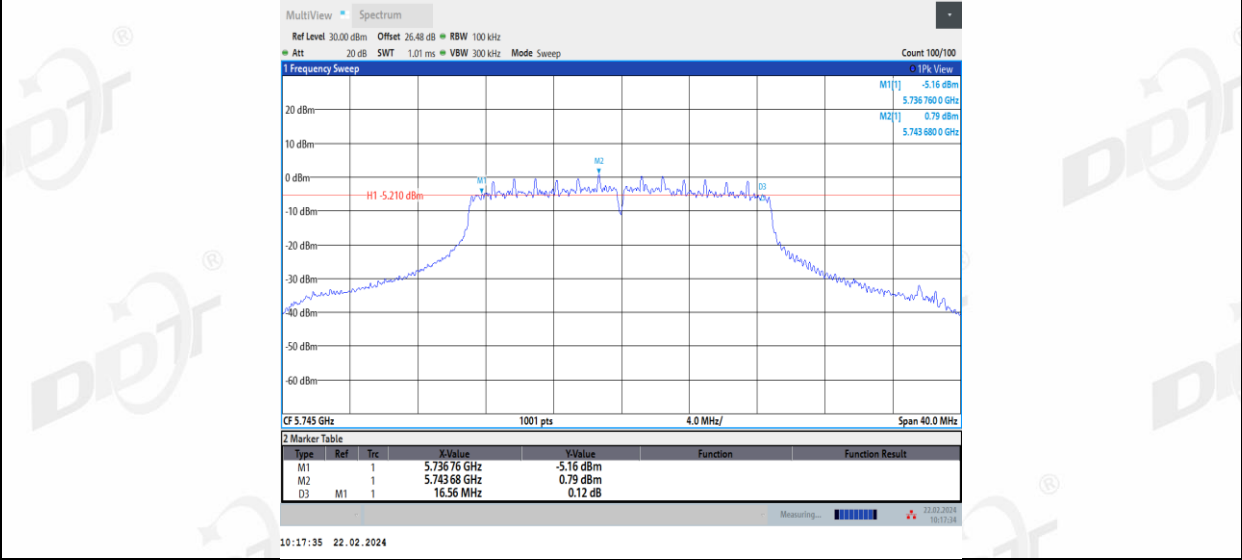
11N40MIMO_Ant1_5795



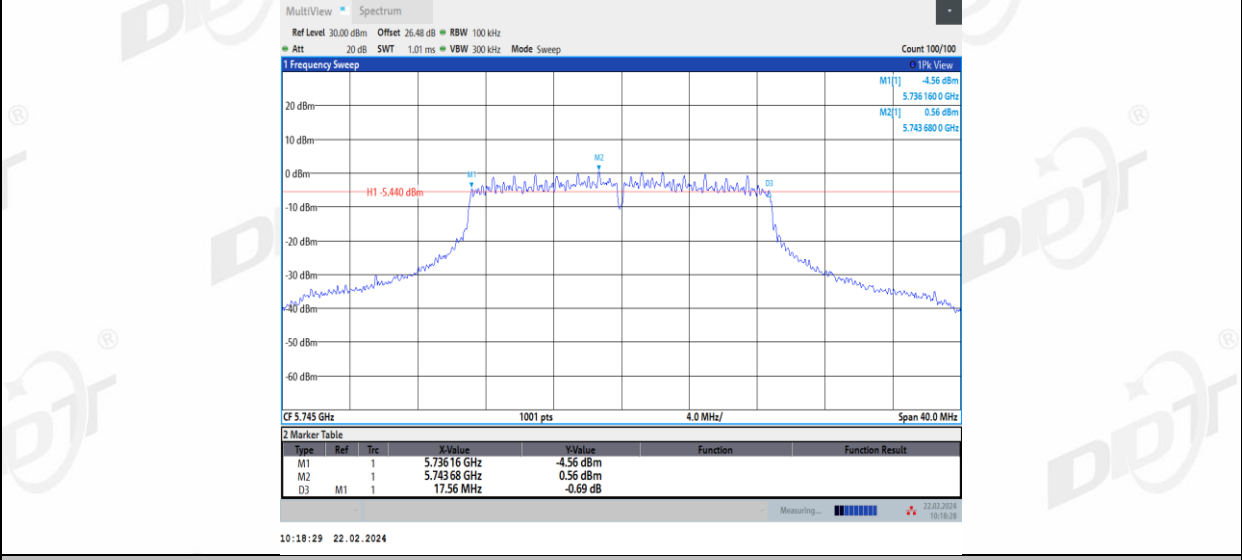
11N40MIMO_Ant2_5795



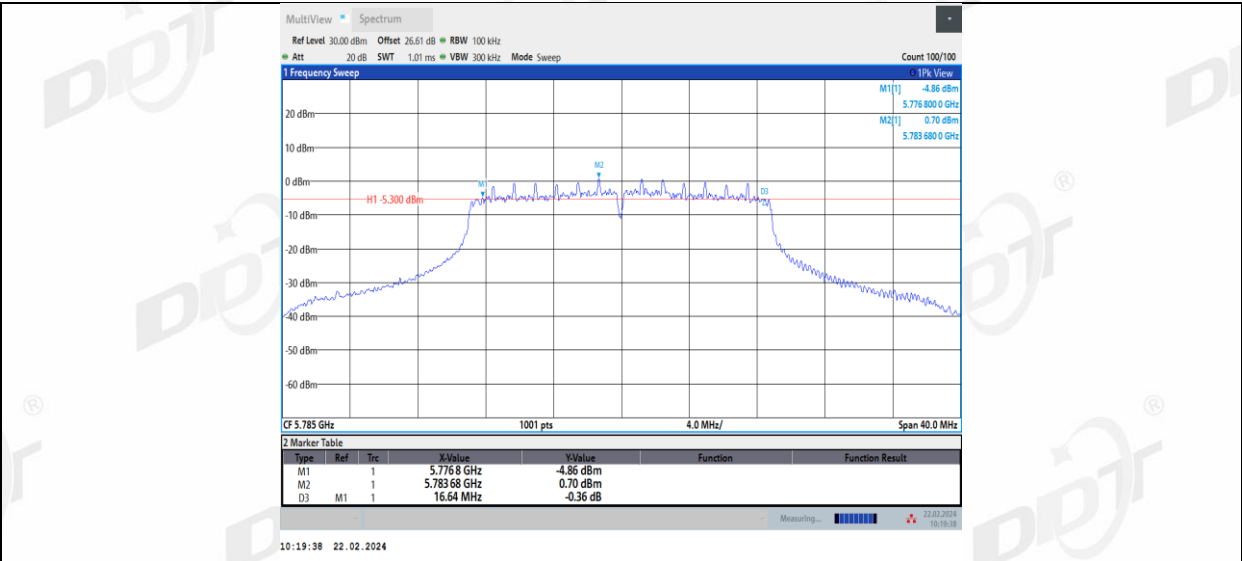
11AC20MIMO_Ant1_5745



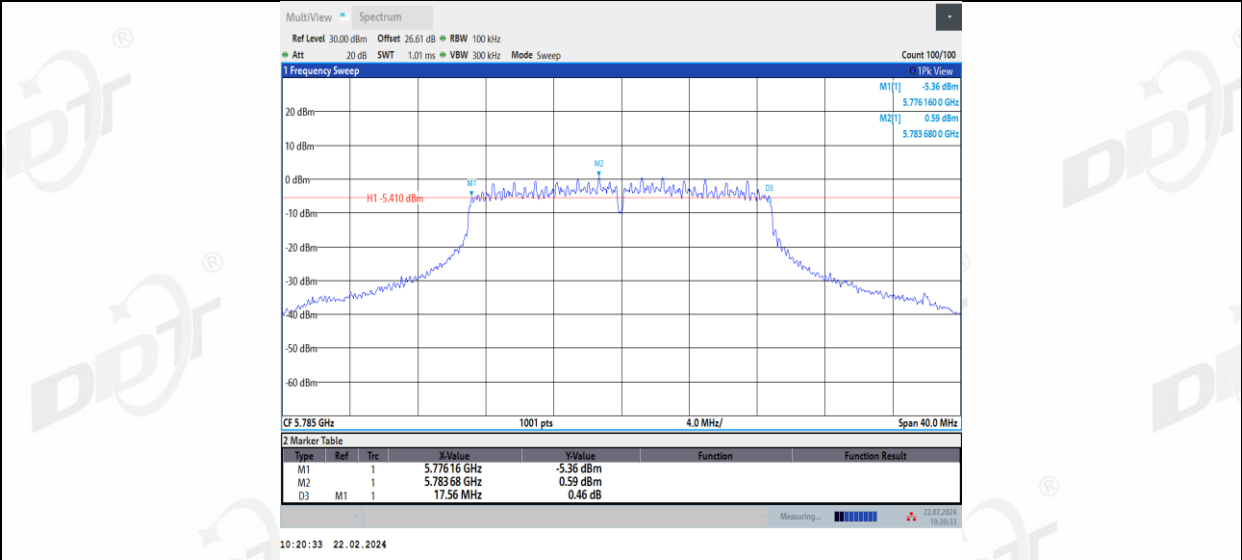
11AC20MIMO_Ant2_5745



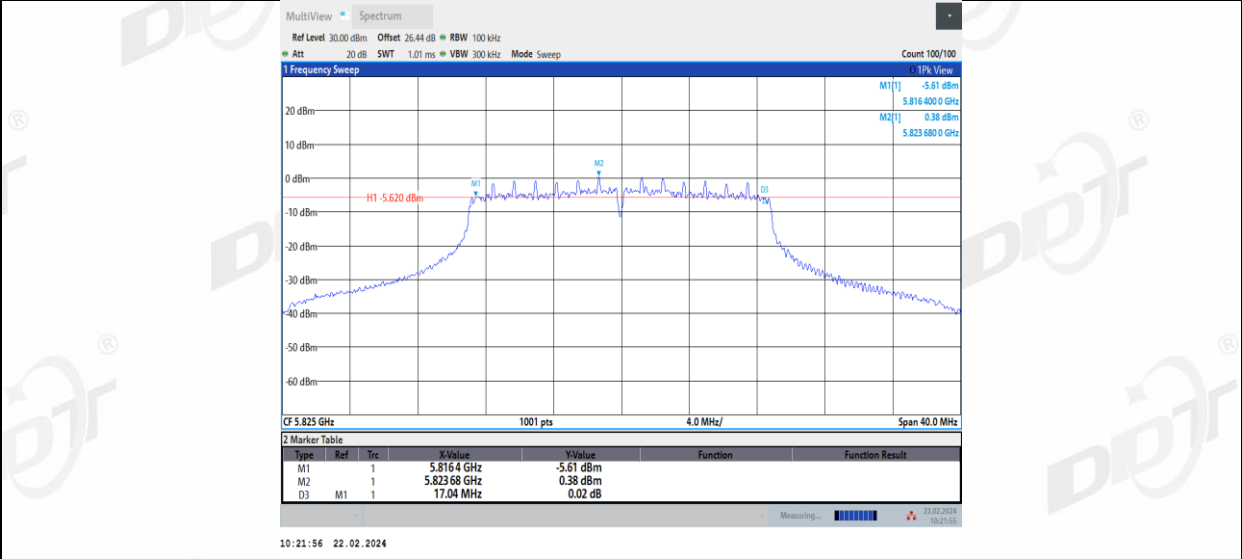
11AC20MIMO_Ant1_5785



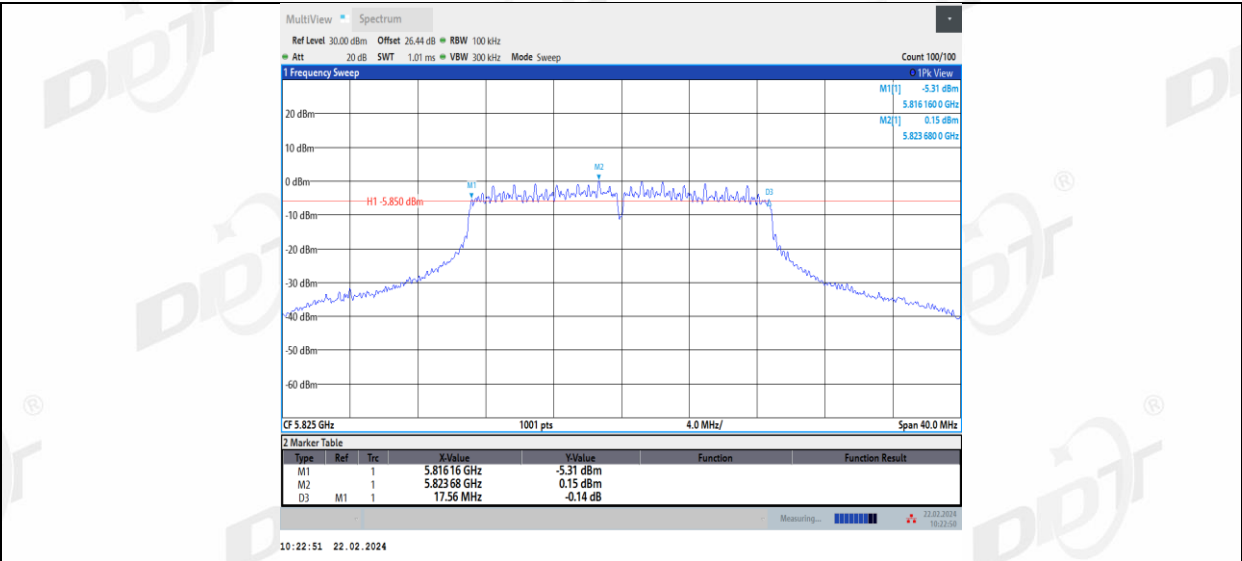
11AC20MIMO_Ant2_5785



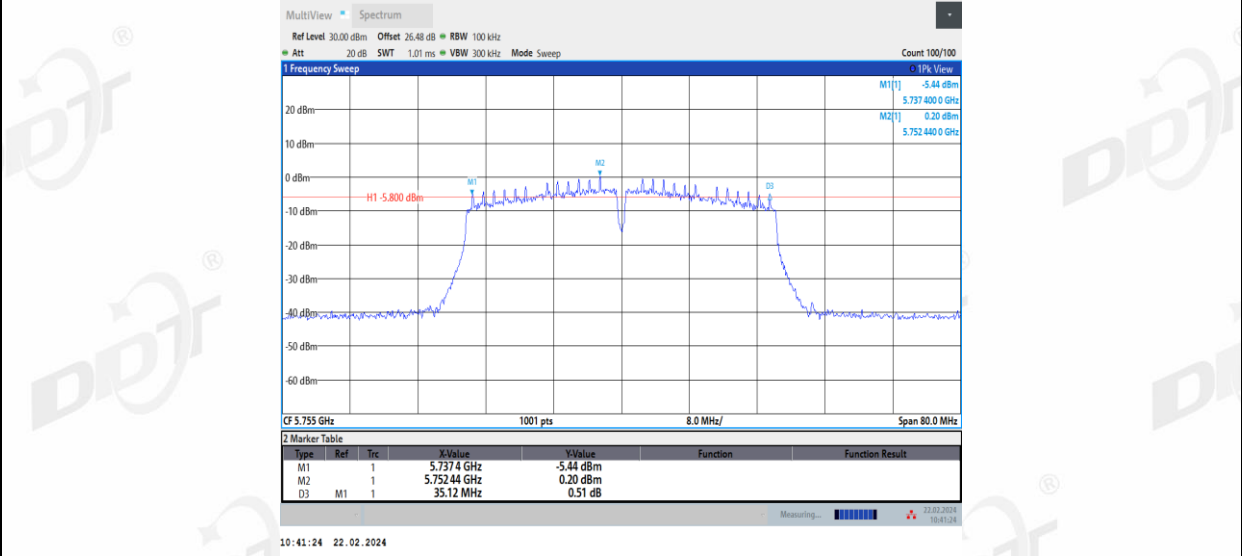
11AC20MIMO_Ant1_5825



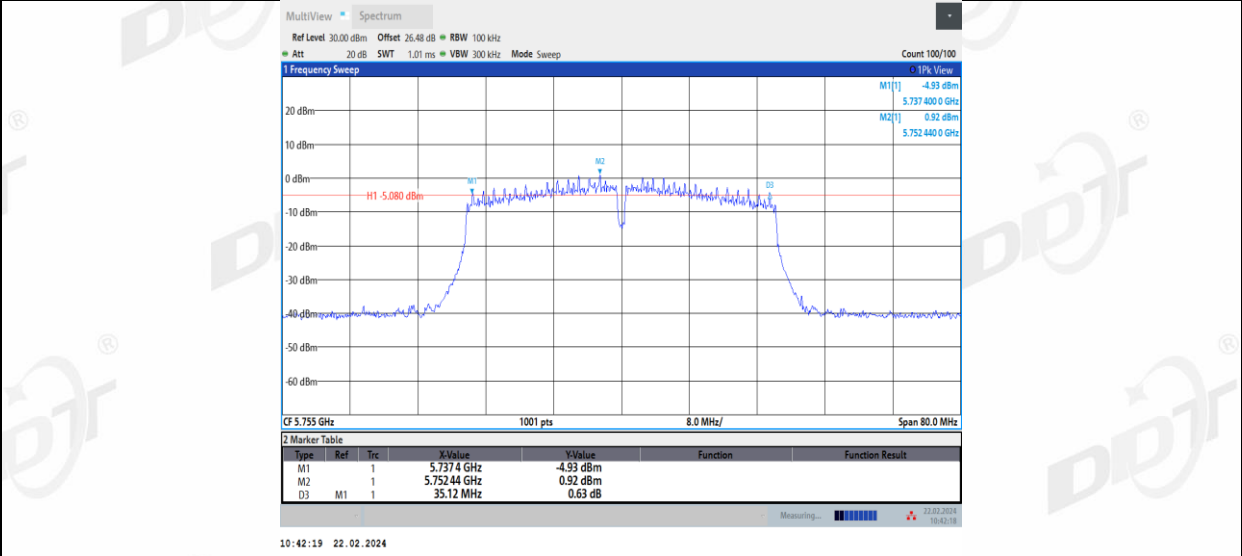
11AC20MIMO_Ant2_5825



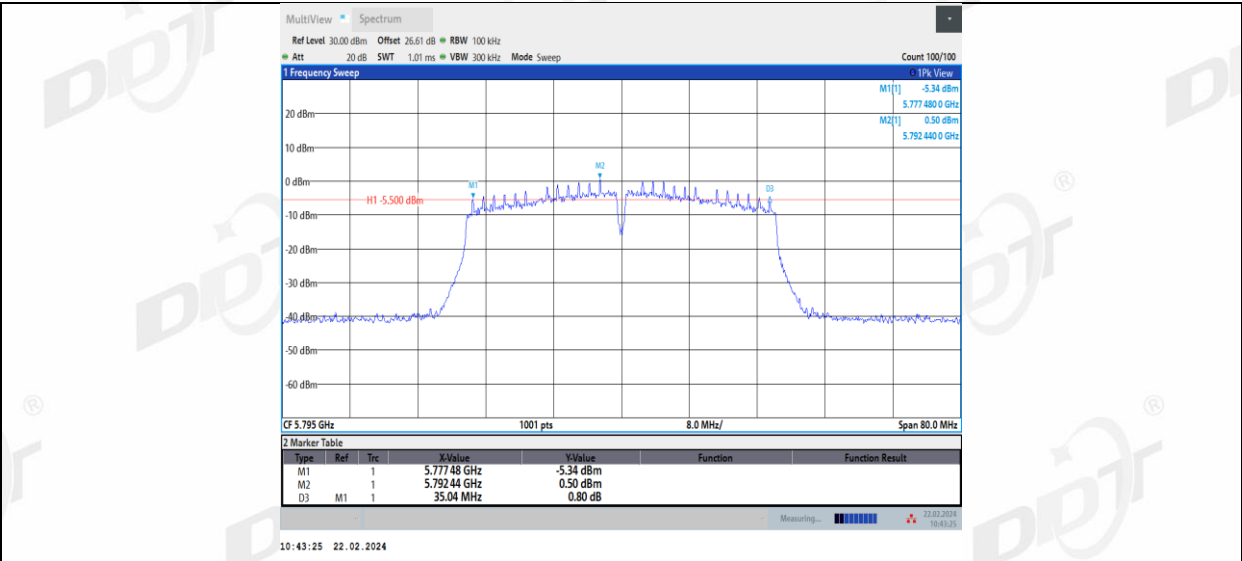
11AC40MIMO_Ant1_5755



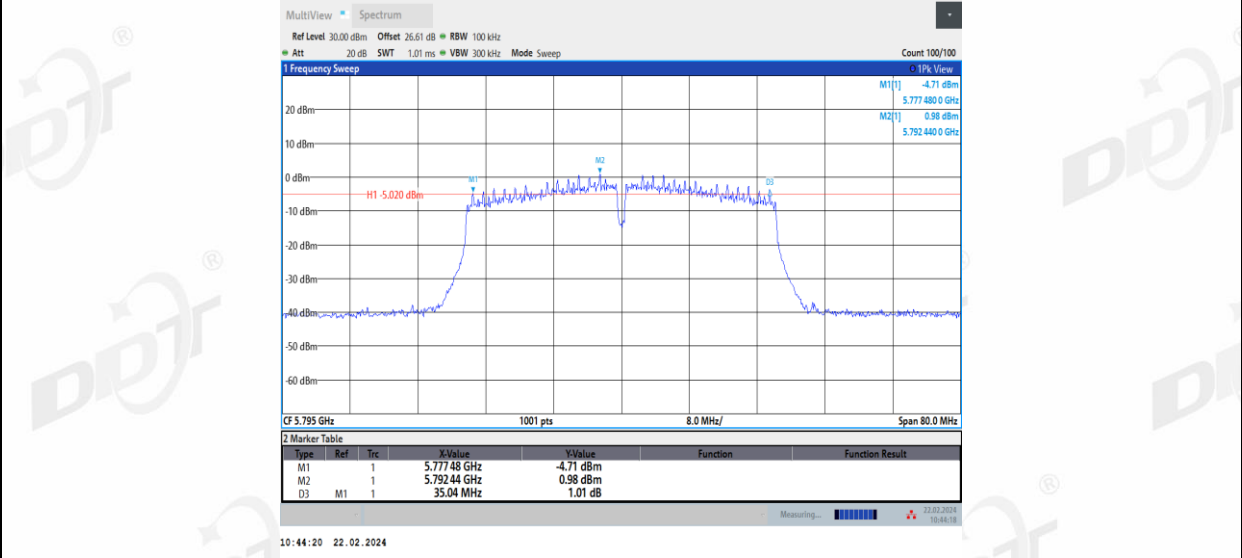
11AC40MIMO_Ant2_5755



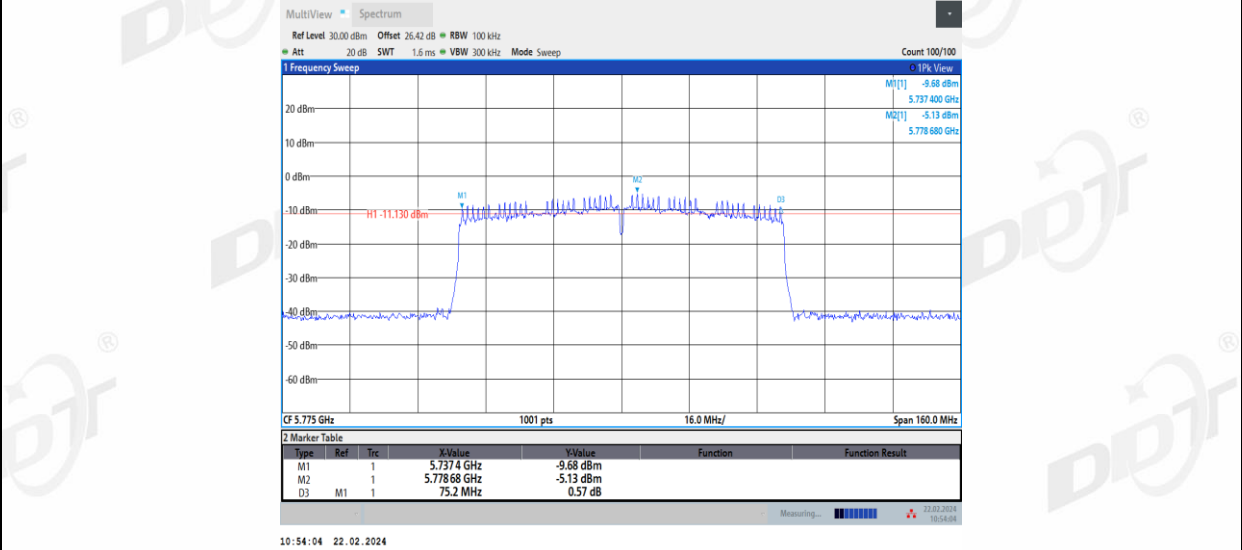
11AC40MIMO_Ant1_5795



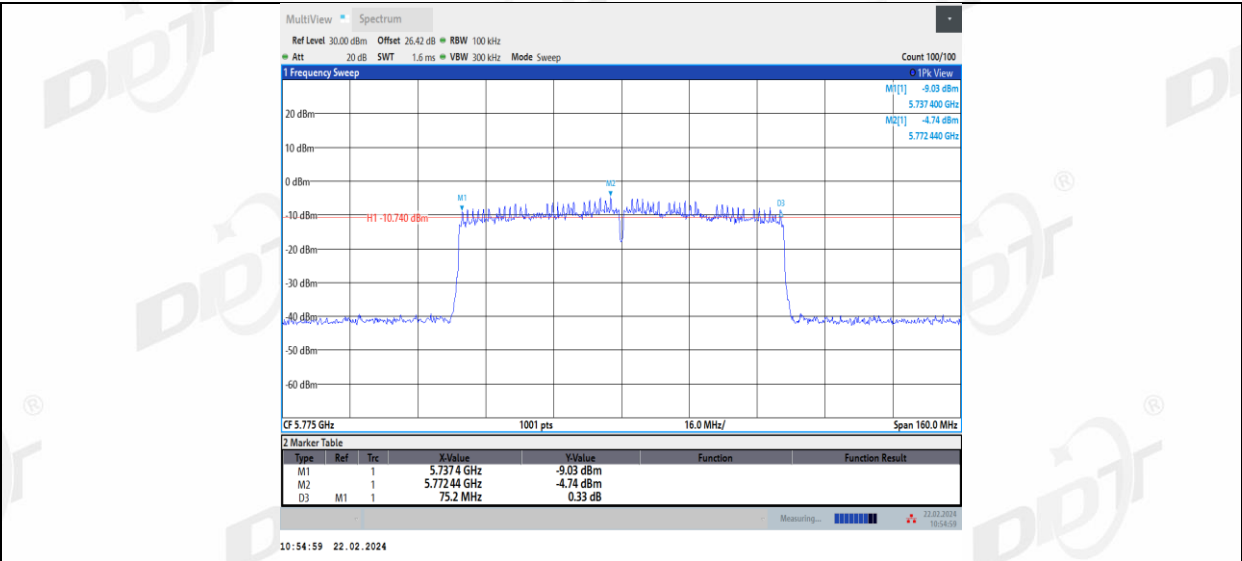
11AC40MIMO_Ant2_5795



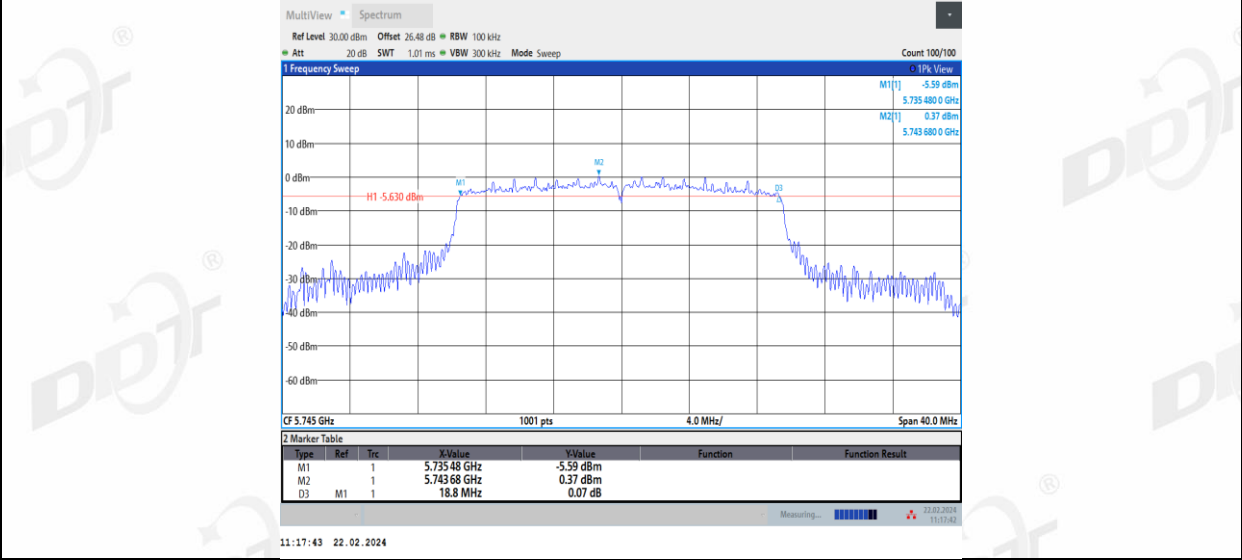
11AC80MIMO_Ant1_5775



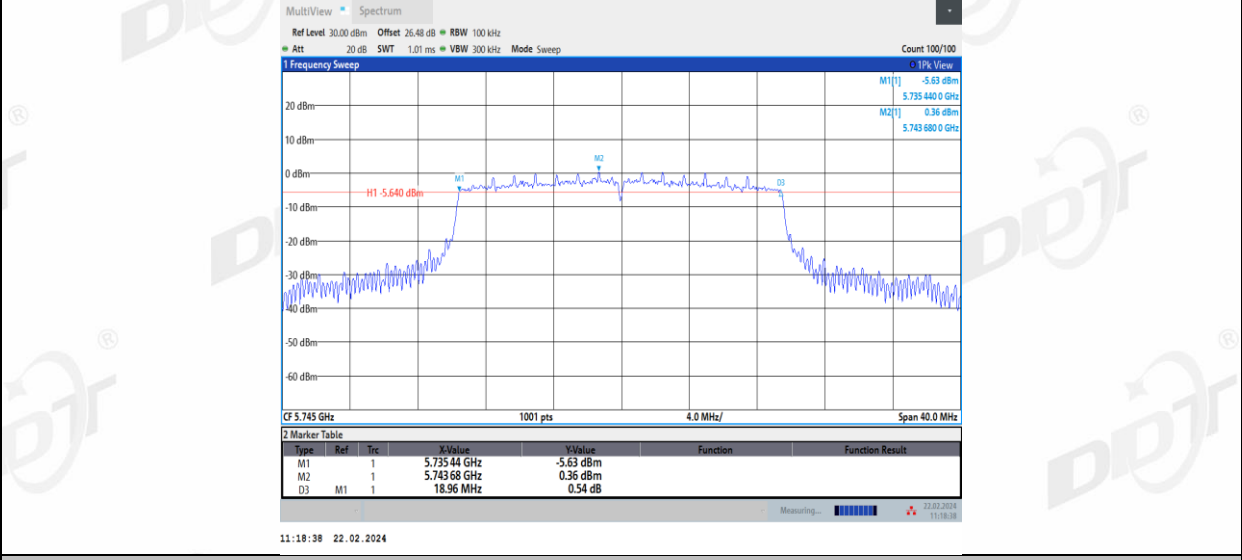
11AC80MIMO_Ant2_5775



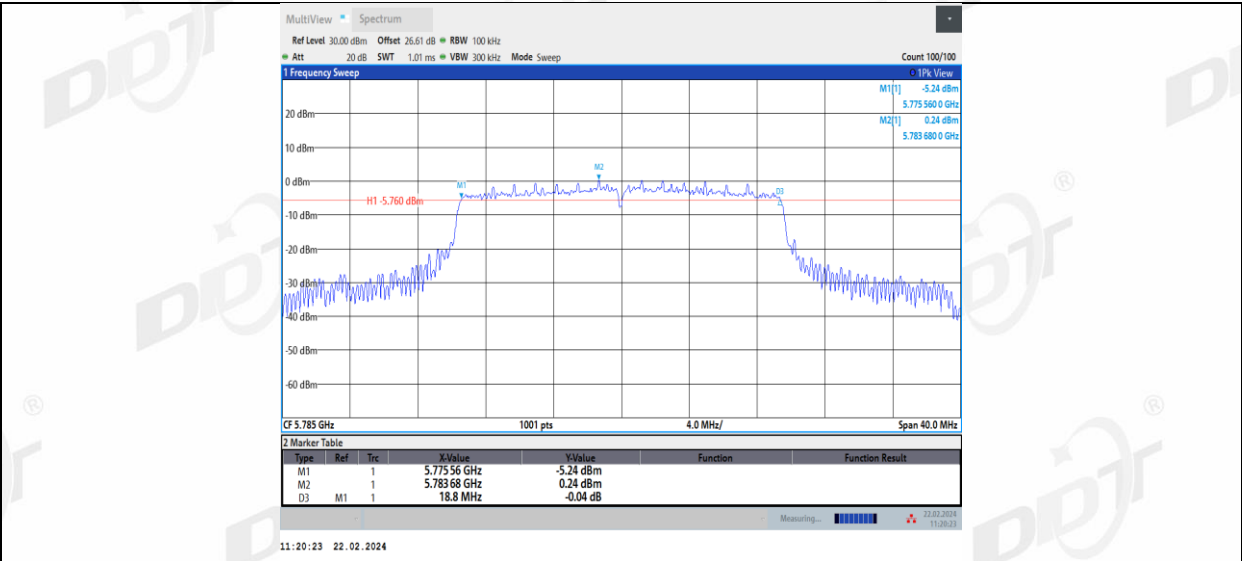
11AX20MIMO_Ant1_5745



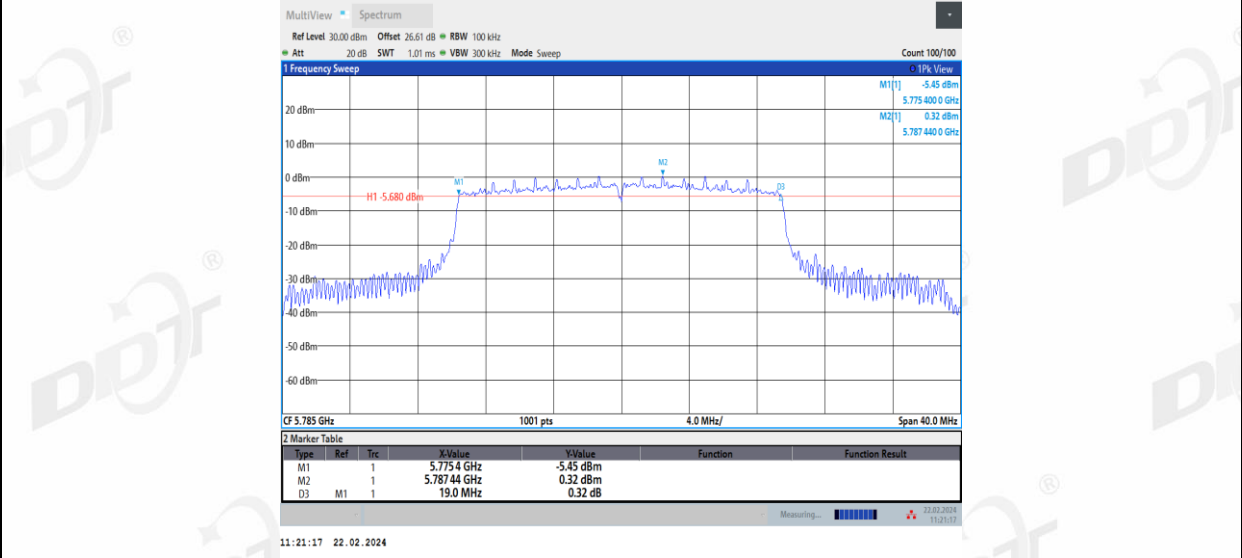
11AX20MIMO_Ant2_5745



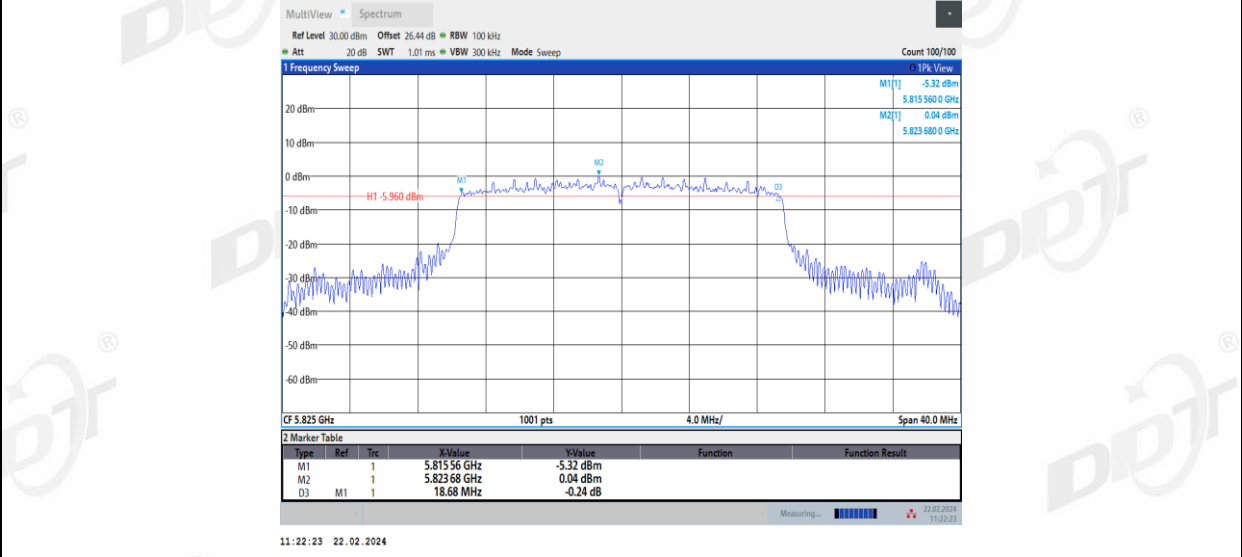
11AX20MIMO_Ant1_5785



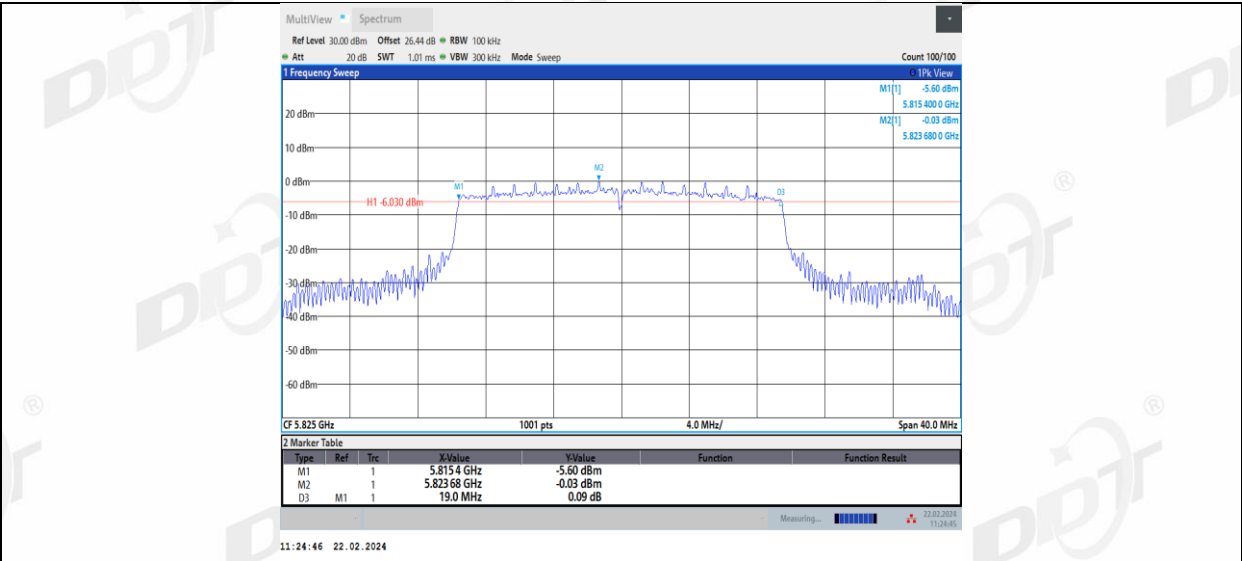
11AX20MIMO_Ant2_5785



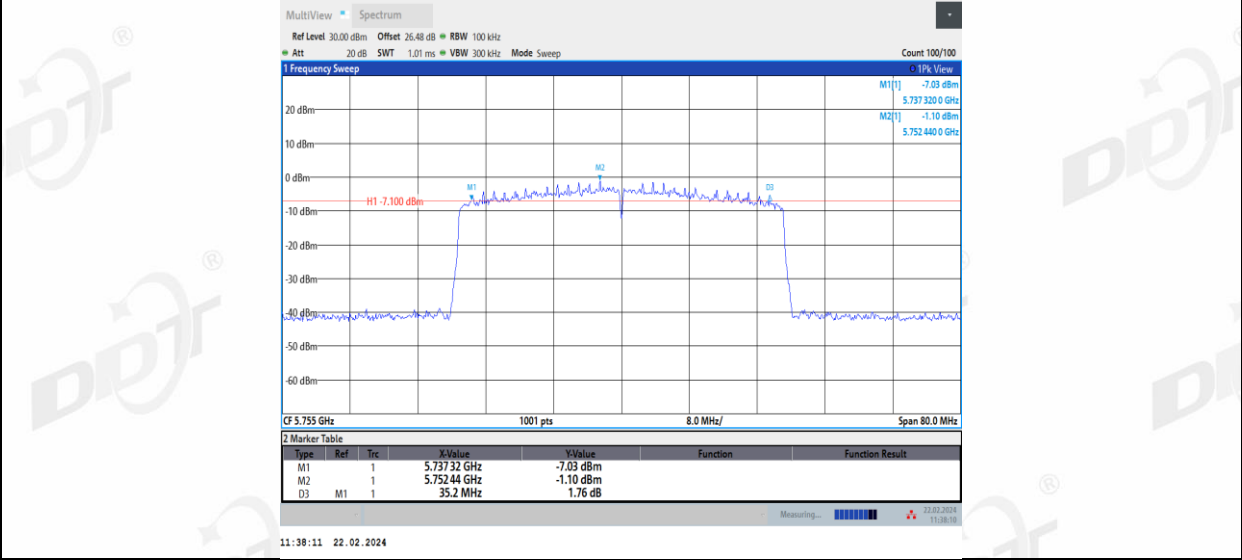
11AX20MIMO_Ant1_5825



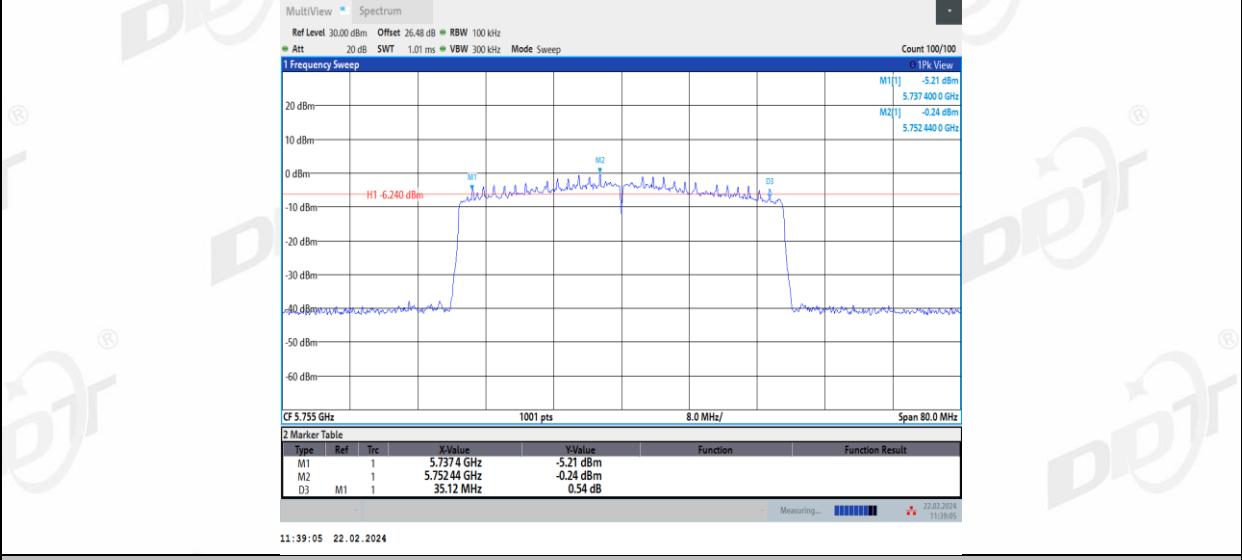
11AX20MIMO_Ant2_5825



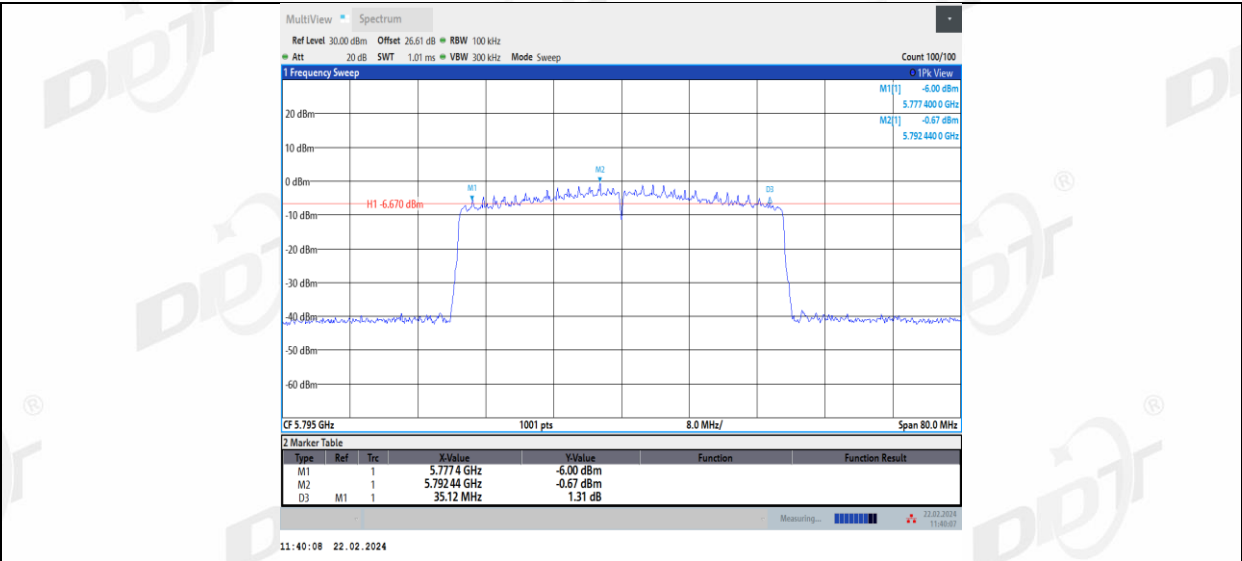
11AX40MIMO_Ant1_5755



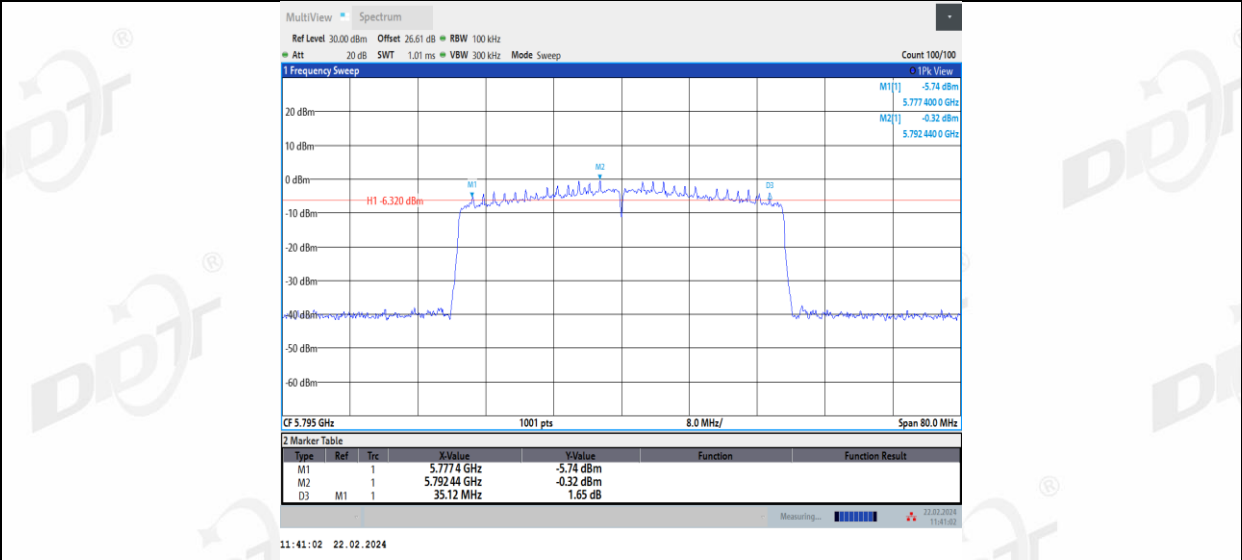
11AX40MIMO_Ant2_5755



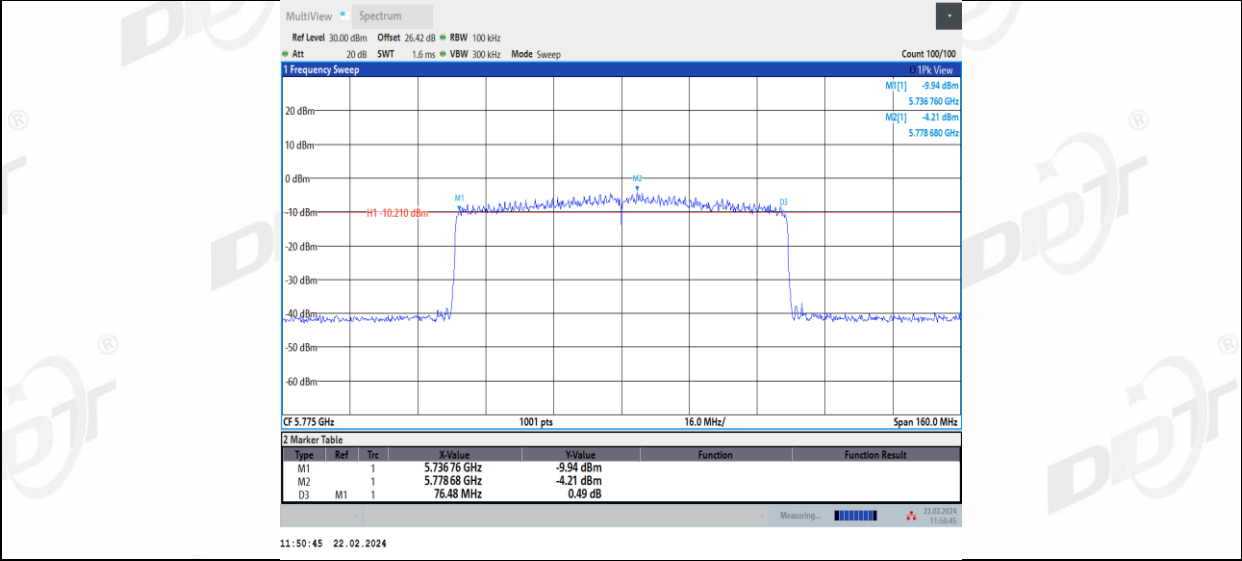
11AX40MIMO_Ant1_5795



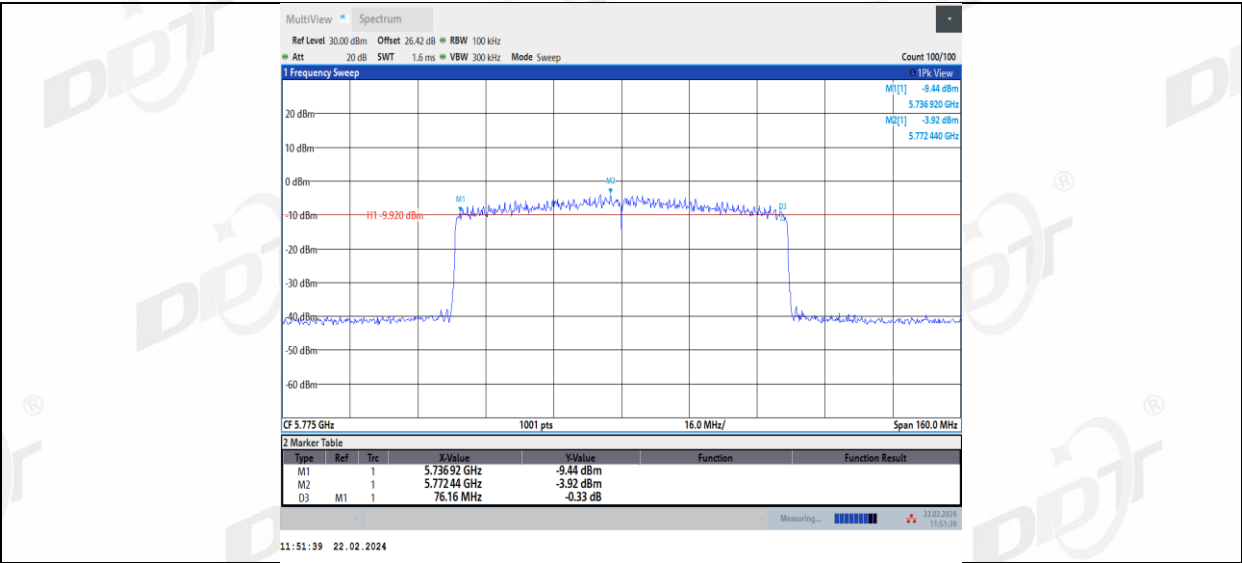
11AX40MIMO_Ant2_5795



11AX80MIMO_Ant1_5775

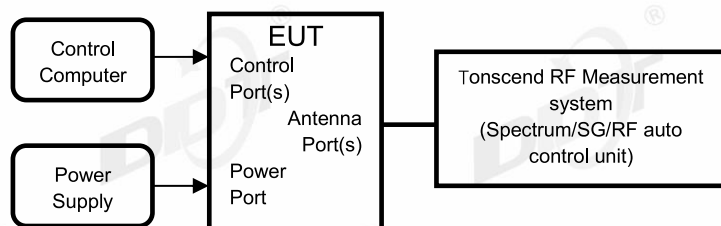


11AX80MIMO_Ant2_5775



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:	24.4℃,45.3%RH	Test Date:	2024.02.20-2024.02.22
Test Power Supply:	Battery	EUT:	Wireless Speaker
Sample Number:	S23111313-04	Model No.:	CHARGE5 Wi-Fi

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	19.31	5170.2905	5189.6009	---	---
	Ant2	5180	19.287	5170.2456	5189.5321	---	---
	Ant1	5200	19.189	5190.3620	5209.5506	---	---
	Ant2	5200	19.2	5190.3411	5209.5415	---	---
	Ant1	5240	17.204	5231.2935	5248.4970	---	---
	Ant2	5240	17.202	5231.3173	5248.5192	---	---
	Ant1	5260	19.119	5250.3858	5269.5045	---	---
	Ant2	5260	19.163	5250.3497	5269.5124	---	---
	Ant1	5280	19.163	5270.2949	5289.4581	---	---
	Ant2	5280	19.2	5270.2908	5289.4912	---	---
	Ant1	5320	19.265	5310.2152	5329.4804	---	---
	Ant2	5320	19.261	5310.2597	5329.5205	---	---
	Ant1	5500	19.211	5490.3190	5509.5300	---	---
	Ant2	5500	19.227	5490.2993	5509.5266	---	---
	Ant1	5580	19.269	5570.2142	5589.4828	---	---
	Ant2	5580	19.277	5570.2290	5589.5059	---	---
	Ant1	5700	19.233	5690.2464	5709.4793	---	---
	Ant2	5700	19.262	5690.2458	5709.5079	---	---
	Ant1	5720	19.197	5710.2837	5729.4807	---	---
	Ant2	5720	19.205	5710.2904	5729.4950	---	---
	Ant1	5720_UN II-2C	14.716	5710.2837	5725	---	---
	Ant2	5720_UN II-2C	14.71	5710.2904	5725	---	---
	Ant1	5720_UN II-3	4.481	5725	5729.4807	---	---
	Ant2	5720_UN II-3	4.495	5725	5729.4950	---	---
	Ant1	5745	19.114	5735.2526	5754.3668	---	---
	Ant2	5745	19.115	5735.2510	5754.3657	---	---
	Ant1	5785	19.095	5775.3822	5794.4774	---	---
	Ant2	5785	19.152	5775.3734	5794.5253	---	---
	Ant1	5825	19.196	5815.2306	5834.4270	---	---
	Ant2	5825	19.25	5815.2000	5834.4496	---	---
11N20MIM O	Ant1	5180	20.189	5169.8837	5190.0725	---	---
	Ant2	5180	18.611	5170.5223	5189.1338	---	---
	Ant1	5200	20.061	5190.0051	5210.0657	---	---
	Ant2	5200	18.575	5190.6110	5209.1861	---	---
	Ant1	5240	18.004	5230.9449	5248.9490	---	---
	Ant2	5240	17.737	5231.0623	5248.7997	---	---
	Ant1	5260	20.081	5250.0083	5270.0893	---	---
	Ant2	5260	18.52	5250.6289	5269.1491	---	---
	Ant1	5280	20.177	5269.9264	5290.1035	---	---
	Ant2	5280	18.587	5270.5900	5289.1769	---	---
	Ant1	5320	20.131	5309.8716	5330.0025	---	---
	Ant2	5320	18.564	5310.5769	5329.1408	---	---
	Ant1	5500	20.058	5489.9696	5510.0274	---	---
	Ant2	5500	18.581	5490.5453	5509.1264	---	---
	Ant1	5580	20.203	5569.8709	5590.0743	---	---
	Ant2	5580	18.635	5570.5176	5589.1522	---	---
	Ant1	5700	20.131	5689.8972	5710.0283	---	---
	Ant2	5700	18.624	5690.5221	5709.1457	---	---
	Ant1	5720	20.097	5709.9435	5730.0407	---	---
	Ant2	5720	18.589	5710.5679	5729.1566	---	---
	Ant1	5720_UN	15.056	5709.9435	5725	---	---

	Ant2	II-2C 5720_UN II-2C	14.432	5710.5679	5725	---	---
	Ant1	5720_UN II-3	5.041	5725	5730.0407	---	---
	Ant2	5720_UN II-3	4.157	5725	5729.1566	---	---
	Ant1	5745	20.053	5734.9147	5754.9680	---	---
	Ant2	5745	18.568	5735.5566	5754.1250	---	---
	Ant1	5785	20.073	5775.0070	5795.0803	---	---
	Ant2	5785	18.571	5775.5730	5794.1443	---	---
	Ant1	5825	20.151	5814.8644	5835.0152	---	---
11N40MIM O	Ant2	5825	18.603	5815.5308	5834.1334	---	---
	Ant1	5190	36.017	5171.9705	5207.9878	---	---
	Ant2	5190	36.123	5171.9047	5208.0273	---	---
	Ant1	5230	35.902	5212.0054	5247.9078	---	---
	Ant2	5230	35.955	5211.9530	5247.9083	---	---
	Ant1	5270	35.908	5252.0217	5287.9298	---	---
	Ant2	5270	36.004	5252.0087	5288.0124	---	---
	Ant1	5310	35.904	5292.0111	5327.9153	---	---
	Ant2	5310	36.066	5291.9064	5327.9727	---	---
	Ant1	5510	35.939	5492.0050	5527.9439	---	---
	Ant2	5510	36.05	5491.9186	5527.9690	---	---
	Ant1	5550	35.892	5532.0293	5567.9213	---	---
	Ant2	5550	35.95	5531.9514	5567.9013	---	---
	Ant1	5670	35.894	5652.0439	5687.9379	---	---
	Ant2	5670	36.014	5651.9990	5688.0130	---	---
	Ant1	5710	35.946	5691.9909	5727.9369	---	---
	Ant2	5710	36.027	5691.8967	5727.9240	---	---
	Ant1	5710_UN II-2C	33.009	5691.9909	5725	---	---
	Ant2	5710_UN II-2C	33.103	5691.8967	5725	---	---
	Ant1	5710_UN II-3	2.937	5725	5727.9369	---	---
	Ant2	5710_UN II-3	2.924	5725	5727.9240	---	---
	Ant1	5755	35.947	5736.9631	5772.9100	---	---
	Ant2	5755	36.003	5736.9085	5772.9112	---	---
	Ant1	5795	35.911	5776.9879	5812.8987	---	---
	Ant2	5795	35.999	5776.9455	5812.9445	---	---
11AC20MI MO	Ant1	5180	19.946	5169.9850	5189.9308	---	---
	Ant2	5180	18.349	5170.8487	5189.1977	---	---
	Ant1	5200	19.906	5190.0612	5209.9672	---	---
	Ant2	5200	18.294	5190.8965	5209.1901	---	---
	Ant1	5240	17.963	5230.9698	5248.9327	---	---
	Ant2	5240	17.628	5231.1366	5248.7642	---	---
	Ant1	5260	19.695	5250.1338	5269.8286	---	---
	Ant2	5260	18.201	5250.9563	5269.1576	---	---
	Ant1	5280	19.74	5270.0618	5289.8015	---	---
	Ant2	5280	18.219	5270.8752	5289.0940	---	---
	Ant1	5320	19.831	5310.0683	5329.8996	---	---
	Ant2	5320	18.358	5310.8486	5329.2068	---	---
	Ant1	5500	19.826	5490.0955	5509.9219	---	---
	Ant2	5500	18.314	5490.8578	5509.1718	---	---
	Ant1	5580	19.826	5570.0429	5589.8692	---	---
	Ant2	5580	18.268	5570.8886	5589.1568	---	---
	Ant1	5700	19.895	5690.0087	5709.9036	---	---
	Ant2	5700	18.324	5690.8062	5709.1301	---	---
	Ant1	5720	19.776	5710.0698	5729.8457	---	---
	Ant2	5720	18.225	5710.8910	5729.1163	---	---
	Ant1	5720_UN II-2C	14.93	5710.0698	5725	---	---
	Ant2	5720_UN	14.109	5710.8910	5725	---	---

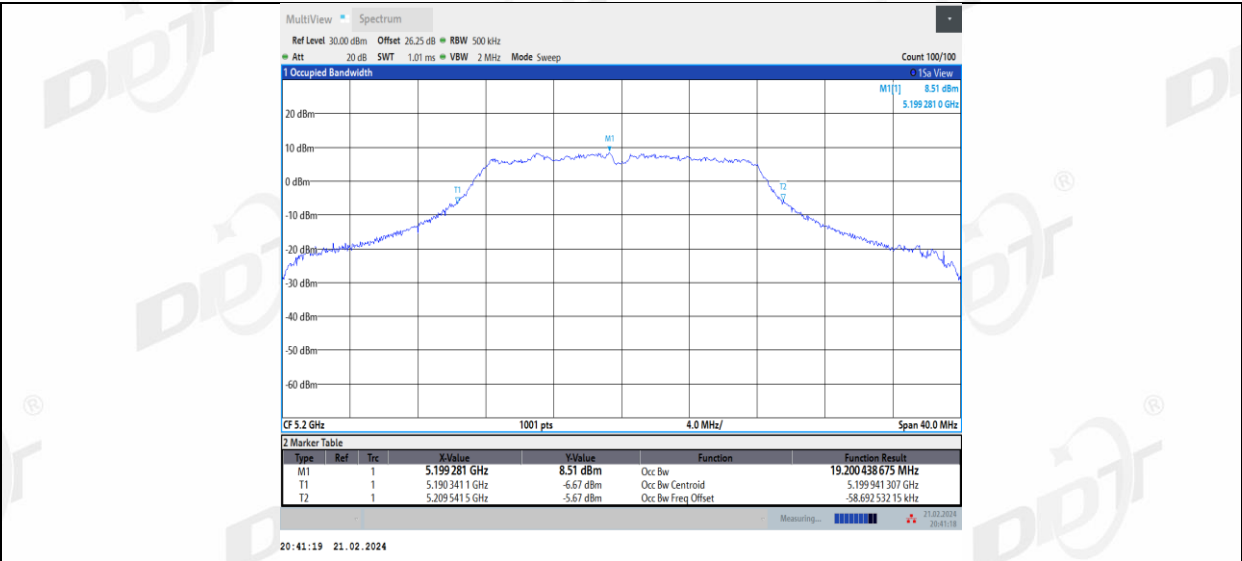
		II-2C					
	Ant1	5720_UN II-3	4.846	5725	5729.8457	---	---
	Ant2	5720_UN II-3	4.116	5725	5729.1163	---	---
	Ant1	5745	19.646	5735.0248	5754.6712	---	---
	Ant2	5745	18.147	5735.8961	5754.0432	---	---
	Ant1	5785	19.735	5775.1225	5794.8570	---	---
	Ant2	5785	18.193	5775.9203	5794.1131	---	---
	Ant1	5825	19.815	5815.0212	5834.8358	---	---
11AC40MI MO	Ant2	5825	18.206	5815.8437	5834.0501	---	---
	Ant1	5190	35.86	5172.0322	5207.8919	---	---
	Ant2	5190	36.123	5171.9848	5208.1074	---	---
	Ant1	5230	35.797	5212.0651	5247.8619	---	---
	Ant2	5230	36.158	5211.8687	5248.0271	---	---
	Ant1	5270	35.836	5252.0408	5287.8764	---	---
	Ant2	5270	36.041	5251.9952	5288.0360	---	---
	Ant1	5310	35.827	5292.0303	5327.8577	---	---
	Ant2	5310	36.159	5291.9048	5328.0636	---	---
	Ant1	5510	35.845	5492.0361	5527.8810	---	---
	Ant2	5510	36.182	5491.9040	5528.0862	---	---
	Ant1	5550	35.825	5532.0150	5567.8400	---	---
	Ant2	5550	36.062	5531.9382	5568.0007	---	---
	Ant1	5670	35.793	5652.0475	5687.8410	---	---
	Ant2	5670	36.031	5652.0032	5688.0339	---	---
	Ant1	5710	35.894	5692.0144	5727.9085	---	---
	Ant2	5710	36.18	5691.8724	5728.0522	---	---
	Ant1	5710_UN II-2C	32.986	5692.0144	5725	---	---
	Ant2	5710_UN II-2C	33.128	5691.8724	5725	---	---
	Ant1	5710_UN II-3	2.908	5725	5727.9085	---	---
	Ant2	5710_UN II-3	3.052	5725	5728.0522	---	---
	Ant1	5755	35.907	5736.9287	5772.8353	---	---
	Ant2	5755	36.12	5736.8573	5772.9769	---	---
	Ant1	5795	35.779	5777.0580	5812.8367	---	---
	Ant2	5795	36.104	5776.9462	5813.0503	---	---
11AC80MI MO	Ant1	5210	75.226	5172.3815	5247.6071	---	---
	Ant2	5210	74.872	5172.5567	5247.4287	---	---
	Ant1	5290	75.262	5252.3143	5327.5759	---	---
	Ant2	5290	74.957	5252.5559	5327.5127	---	---
	Ant1	5530	75.185	5492.3335	5567.5189	---	---
	Ant2	5530	74.934	5492.5262	5567.4605	---	---
	Ant1	5610	75.187	5572.3324	5647.5193	---	---
	Ant2	5610	74.819	5572.5653	5647.3847	---	---
	Ant1	5690	75.259	5652.3245	5727.5839	---	---
	Ant2	5690	74.9	5652.5603	5727.4605	---	---
	Ant1	5690_UN II-2C	72.676	5652.3245	5725	---	---
	Ant2	5690_UN II-2C	72.44	5652.5603	5725	---	---
	Ant1	5690_UN II-3	2.584	5725	5727.5839	---	---
	Ant2	5690_UN II-3	2.461	5725	5727.4605	---	---
	Ant1	5775	75.393	5737.1775	5812.5706	---	---
	Ant2	5775	75.135	5737.3292	5812.4641	---	---
11AX20MI MO	Ant1	5180	19.442	5170.2086	5189.6507	---	---
	Ant2	5180	19.311	5170.2981	5189.6086	---	---
	Ant1	5200	19.355	5190.2867	5209.6418	---	---
	Ant2	5200	19.341	5190.2828	5209.6237	---	---
	Ant1	5240	18.911	5230.4979	5249.4087	---	---

	Ant2	5240	18.908	5230.4973	5249.4051	---	---
	Ant1	5260	19.34	5250.2969	5269.6368	---	---
	Ant2	5260	19.313	5250.3324	5269.6455	---	---
	Ant1	5280	19.397	5270.2454	5289.6420	---	---
	Ant2	5280	19.281	5270.2953	5289.5761	---	---
	Ant1	5320	19.413	5310.2815	5329.6949	---	---
	Ant2	5320	19.307	5310.3141	5329.6209	---	---
	Ant1	5500	19.366	5490.3077	5509.6733	---	---
	Ant2	5500	19.352	5490.2766	5509.6284	---	---
	Ant1	5580	19.45	5570.2511	5589.7009	---	---
	Ant2	5580	19.35	5570.2919	5589.6424	---	---
	Ant1	5700	19.436	5690.2557	5709.6914	---	---
	Ant2	5700	19.363	5690.2537	5709.6162	---	---
	Ant1	5720	19.403	5710.2408	5729.6439	---	---
	Ant2	5720	19.274	5710.3163	5729.5907	---	---
	Ant1	5720_UN II-2C	14.759	5710.2408	5725	---	---
	Ant2	5720_UN II-2C	14.684	5710.3163	5725	---	---
	Ant1	5720_UN II-3	4.644	5725	5729.6439	---	---
	Ant2	5720_UN II-3	4.591	5725	5729.5907	---	---
	Ant1	5745	19.328	5735.2693	5754.5973	---	---
	Ant2	5745	19.279	5735.2890	5754.5683	---	---
	Ant1	5785	19.361	5775.3157	5794.6768	---	---
	Ant2	5785	19.295	5775.3302	5794.6255	---	---
	Ant1	5825	19.376	5815.2673	5834.6431	---	---
	Ant2	5825	19.315	5815.2702	5834.5856	---	---
11AX40MI MO	Ant1	5190	37.608	5171.1454	5208.7537	---	---
	Ant2	5190	37.586	5171.2101	5208.7965	---	---
	Ant1	5230	37.628	5211.1353	5248.7634	---	---
	Ant2	5230	37.595	5211.1746	5248.7696	---	---
	Ant1	5270	37.567	5251.1573	5288.7243	---	---
	Ant2	5270	37.583	5251.1819	5288.7648	---	---
	Ant1	5310	37.628	5291.1369	5328.7649	---	---
	Ant2	5310	37.646	5291.1511	5328.7972	---	---
	Ant1	5510	37.653	5491.1217	5528.7749	---	---
	Ant2	5510	37.665	5491.1423	5528.8071	---	---
	Ant1	5550	37.648	5531.0924	5568.7407	---	---
	Ant2	5550	37.599	5531.1621	5568.7607	---	---
	Ant1	5670	37.623	5651.1478	5688.7709	---	---
	Ant2	5670	37.502	5651.2586	5688.7603	---	---
	Ant1	5710	37.649	5691.1279	5728.7772	---	---
	Ant2	5710	37.672	5691.1201	5728.7922	---	---
	Ant1	5710_UN II-2C	33.872	5691.1279	5725	---	---
	Ant2	5710_UN II-2C	33.88	5691.1201	5725	---	---
	Ant1	5710_UN II-3	3.777	5725	5728.7772	---	---
	Ant2	5710_UN II-3	3.792	5725	5728.7922	---	---
	Ant1	5755	37.657	5736.0858	5773.7427	---	---
	Ant2	5755	37.633	5736.1041	5773.7371	---	---
	Ant1	5795	37.574	5776.1918	5813.7663	---	---
	Ant2	5795	37.654	5776.1419	5813.7956	---	---
11AX80MI MO	Ant1	5210	77.098	5171.4271	5248.5248	---	---
	Ant2	5210	77.025	5171.4631	5248.4877	---	---
	Ant1	5290	77.042	5251.4574	5328.4997	---	---
	Ant2	5290	77.231	5251.3842	5328.6154	---	---
	Ant1	5530	76.981	5491.4540	5568.4346	---	---
	Ant2	5530	77.056	5491.3882	5568.4442	---	---
	Ant1	5610	77.002	5571.4443	5648.4462	---	---

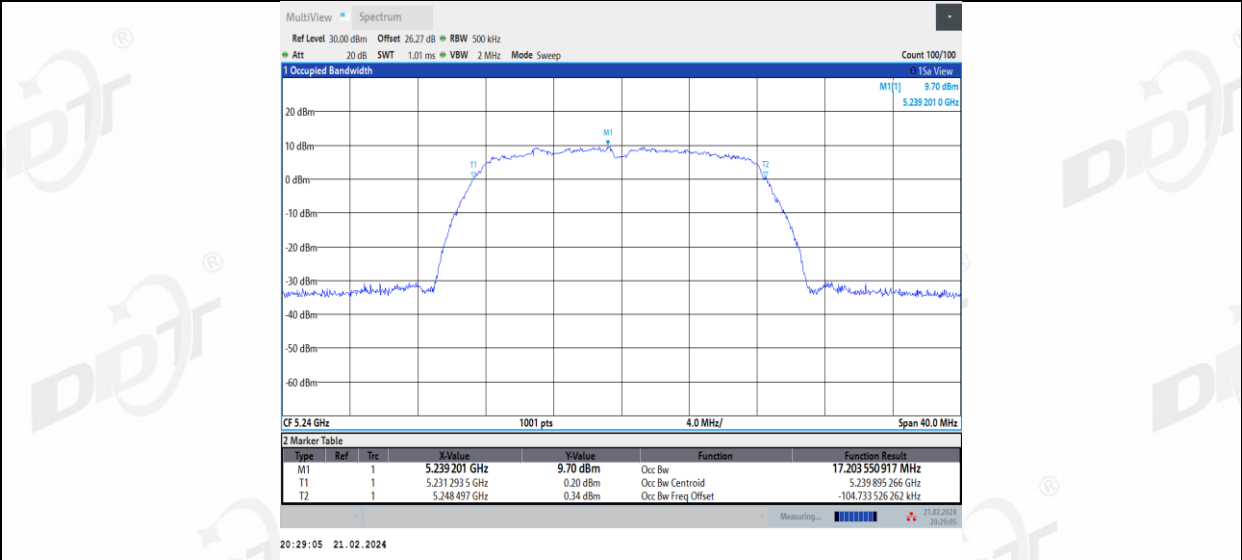
Ant2	5610	77.214	5571.2837	5648.4979	---	---
Ant1	5690	77.121	5651.4862	5728.6068	---	---
Ant2	5690	77.086	5651.4648	5728.5508	---	---
Ant1	5690_UN II-2C	73.514	5651.4862	5725	---	---
Ant2	5690_UN II-2C	73.535	5651.4648	5725	---	---
Ant1	5690_UN II-3	3.607	5725	5728.6068	---	---
Ant2	5690_UN II-3	3.551	5725	5728.5508	---	---
Ant1	5775	77.263	5736.2254	5813.4889	---	---
Ant2	5775	77.38	5736.2248	5813.6050	---	---

6.5. Test graphs

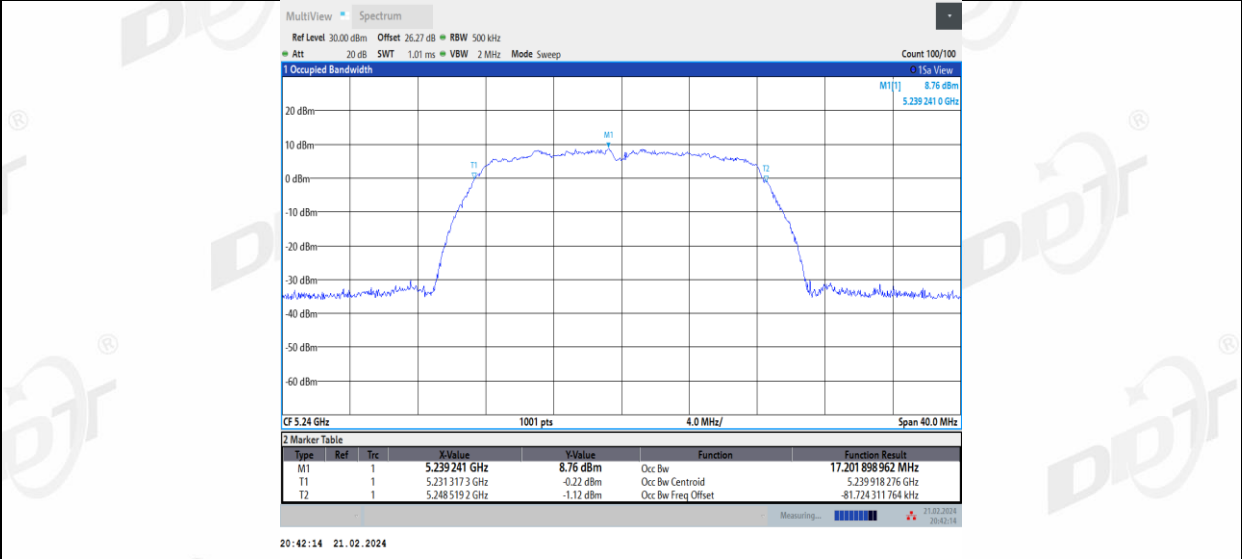




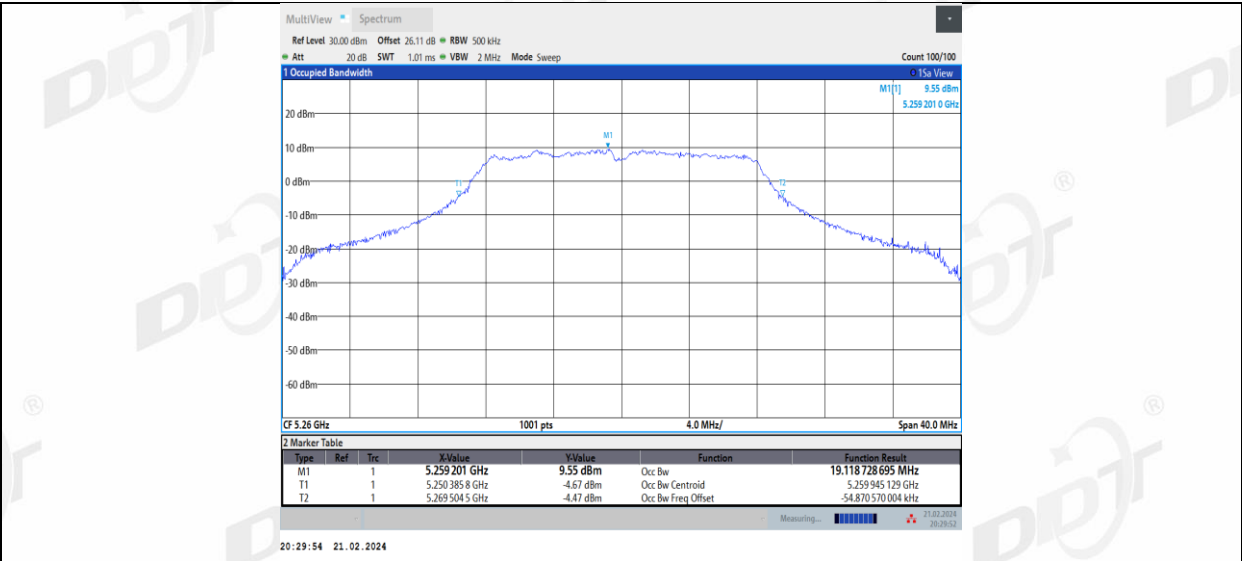
11A_Ant1_5240



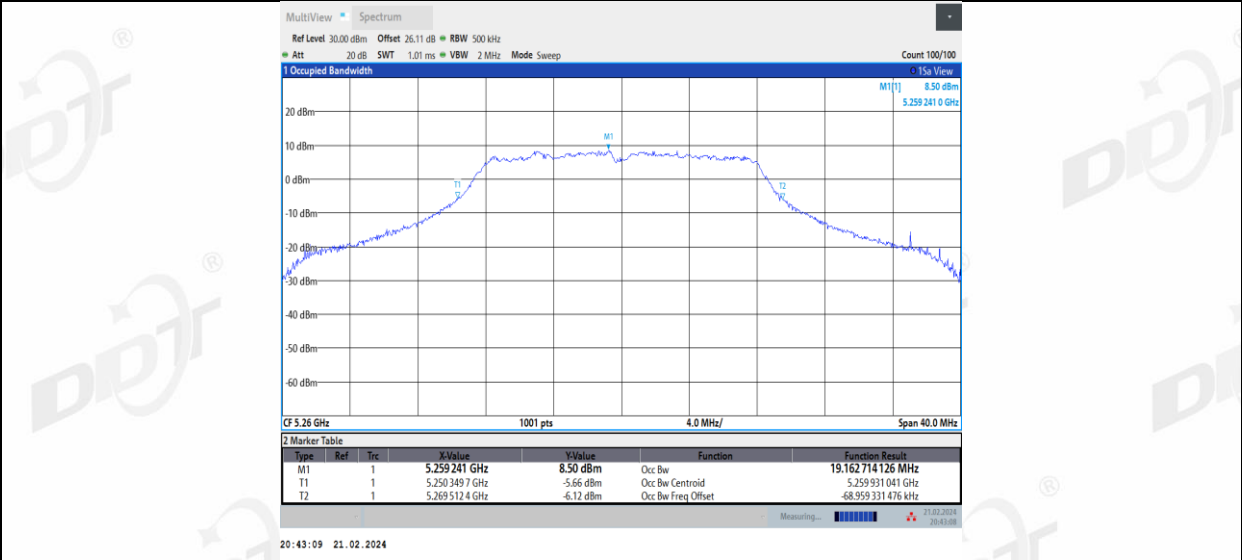
11A_Ant2_5240



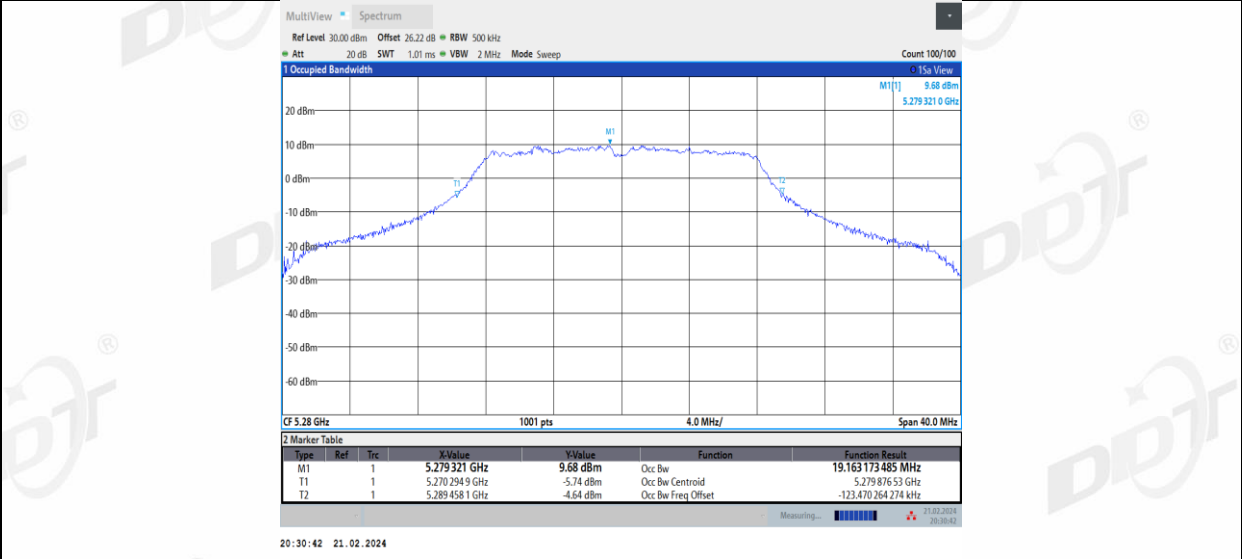
11A_Ant1_5260



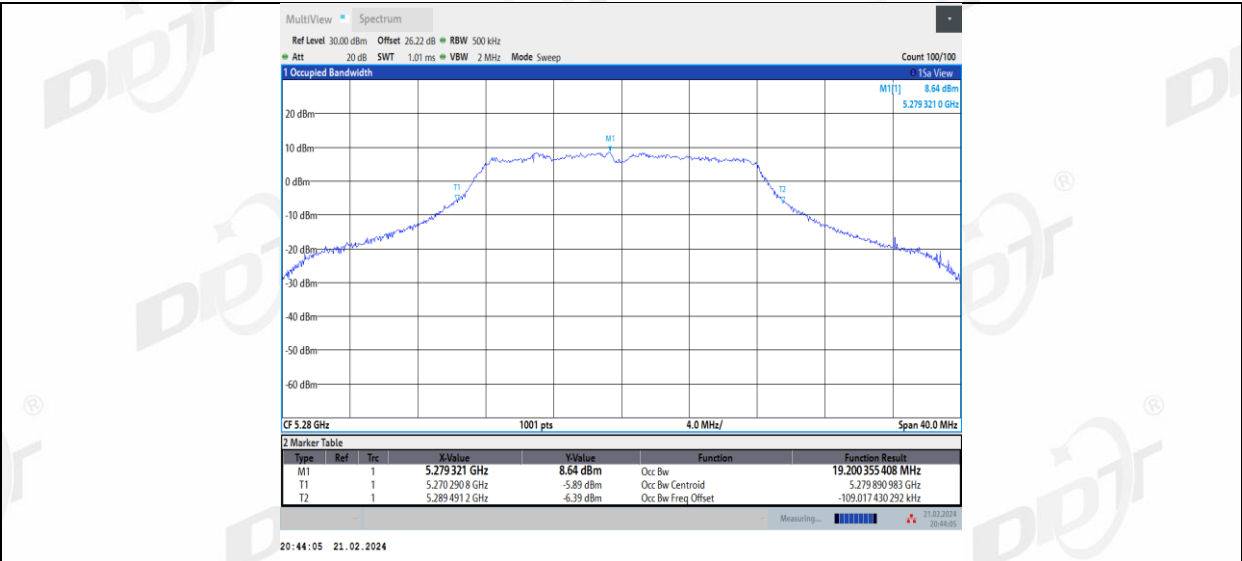
11A_Ant2_5260



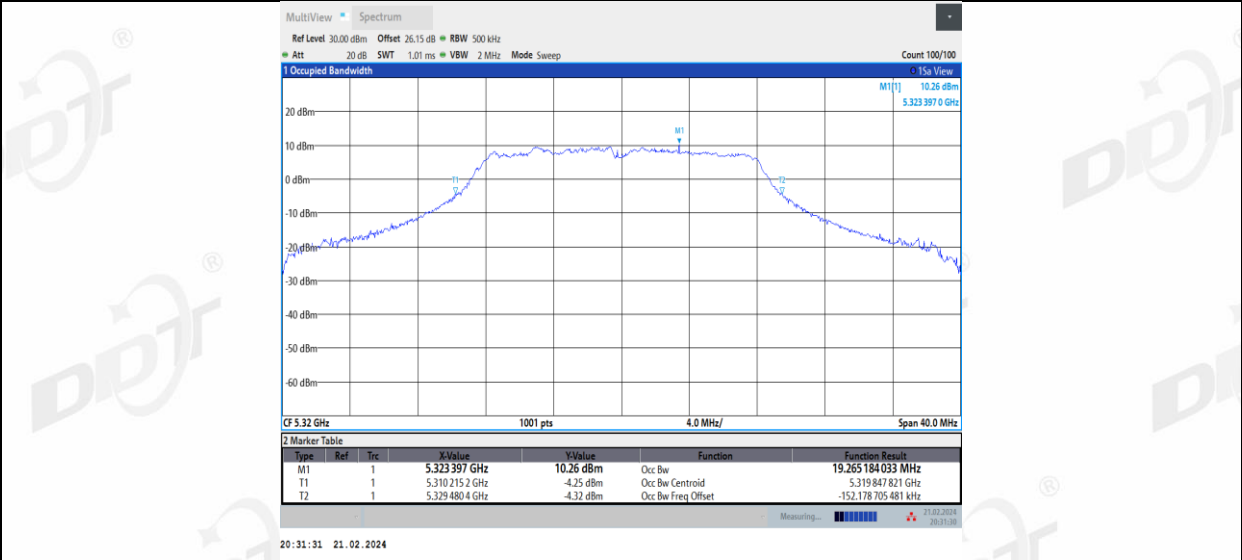
11A_Ant1_5280



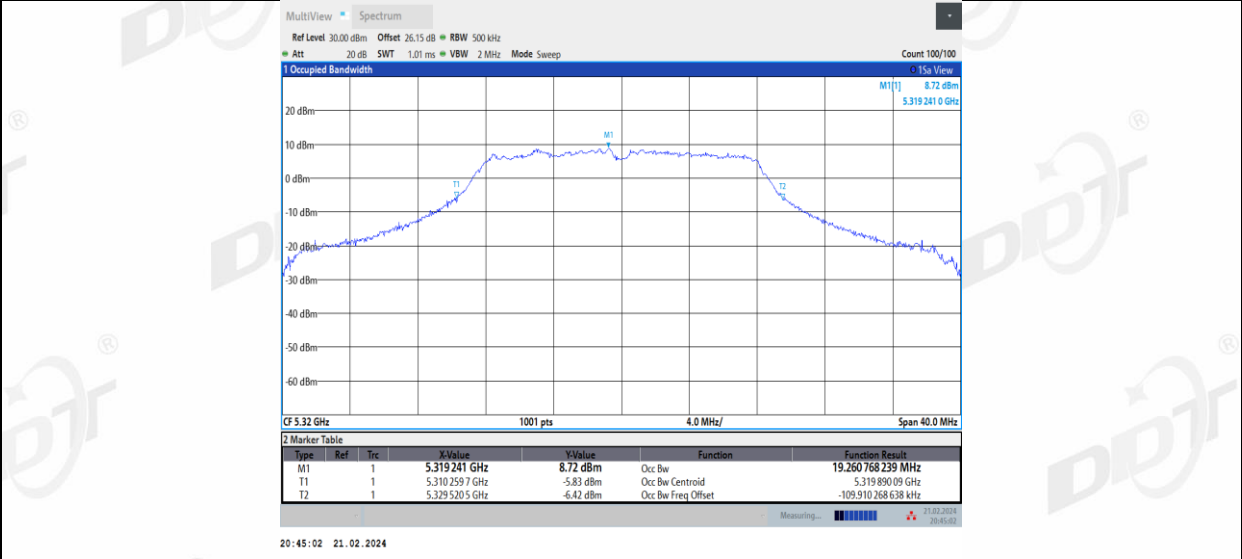
11A_Ant2_5280



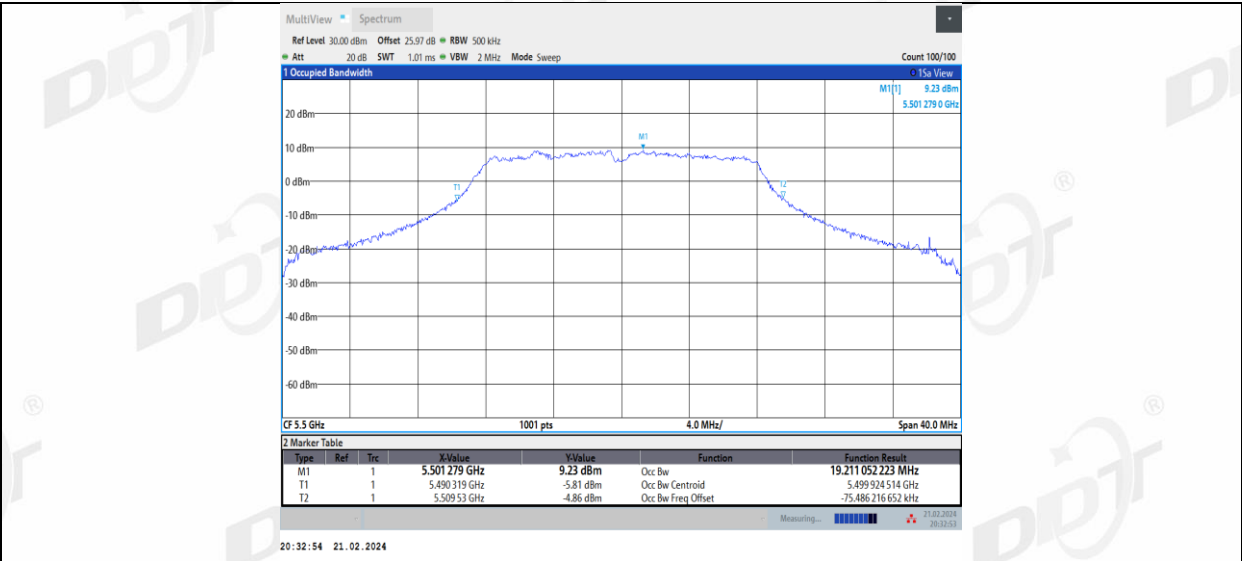
11A_Ant1_5320



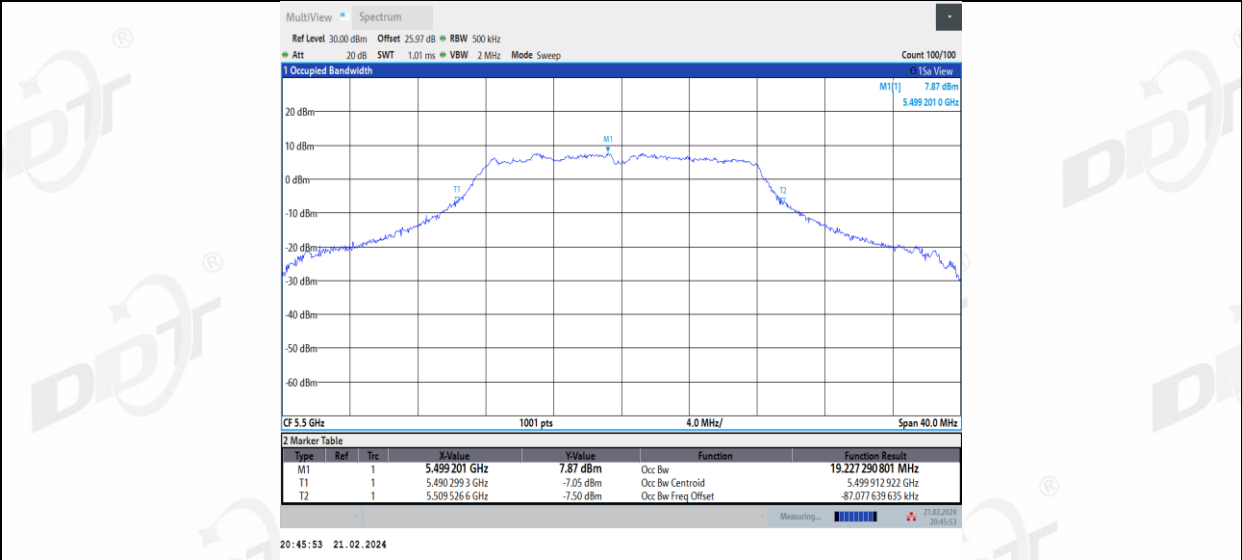
11A_Ant2_5320



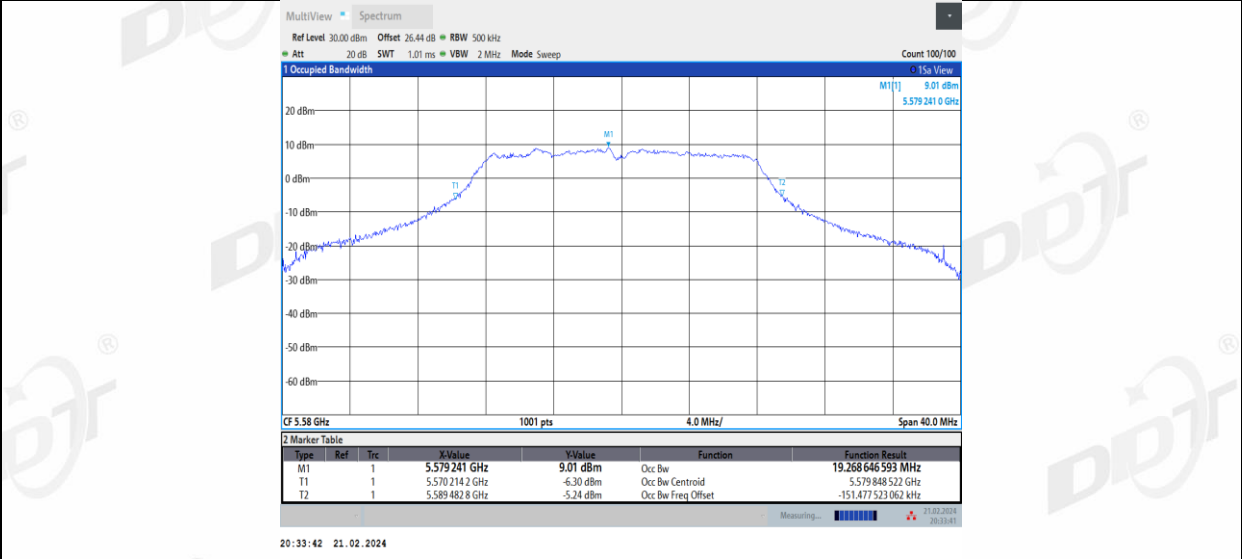
11A_Ant1_5500



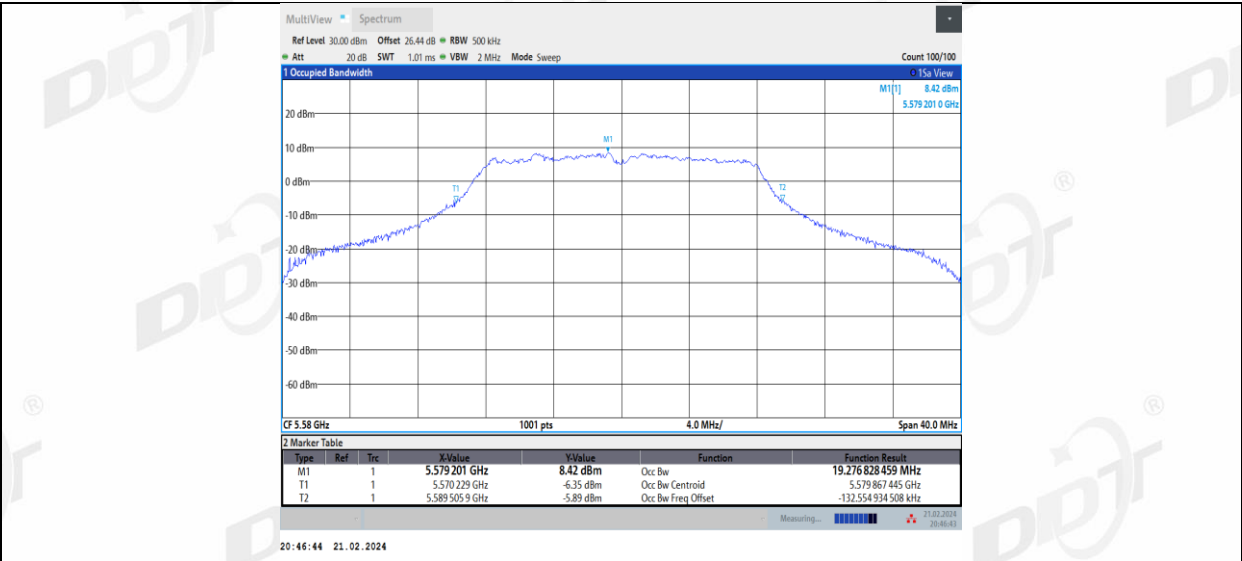
11A_Ant2_5500



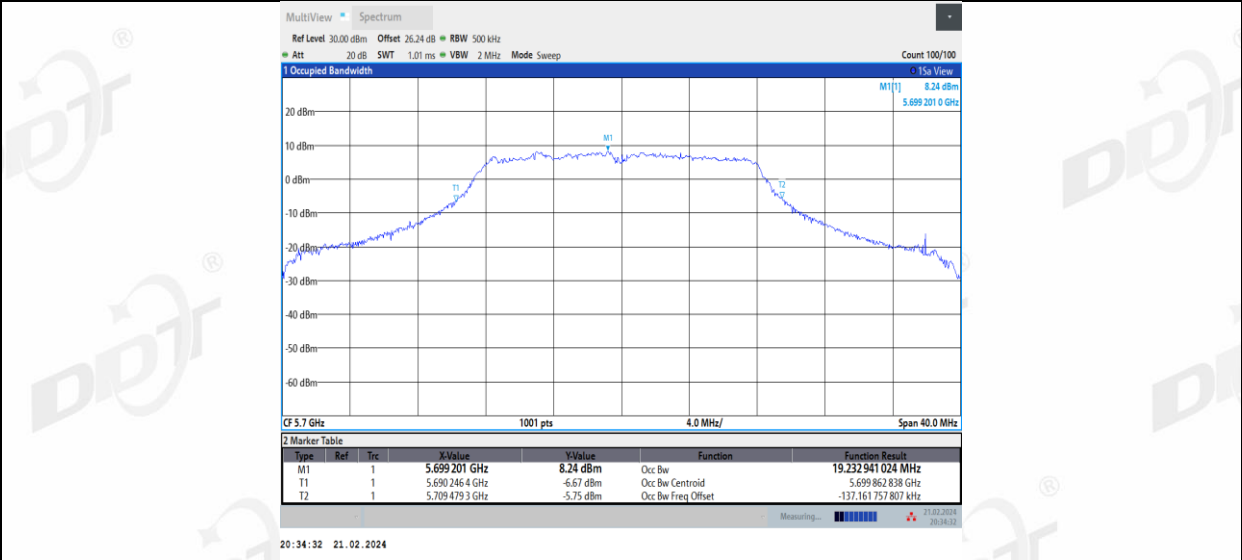
11A_Ant1_5580



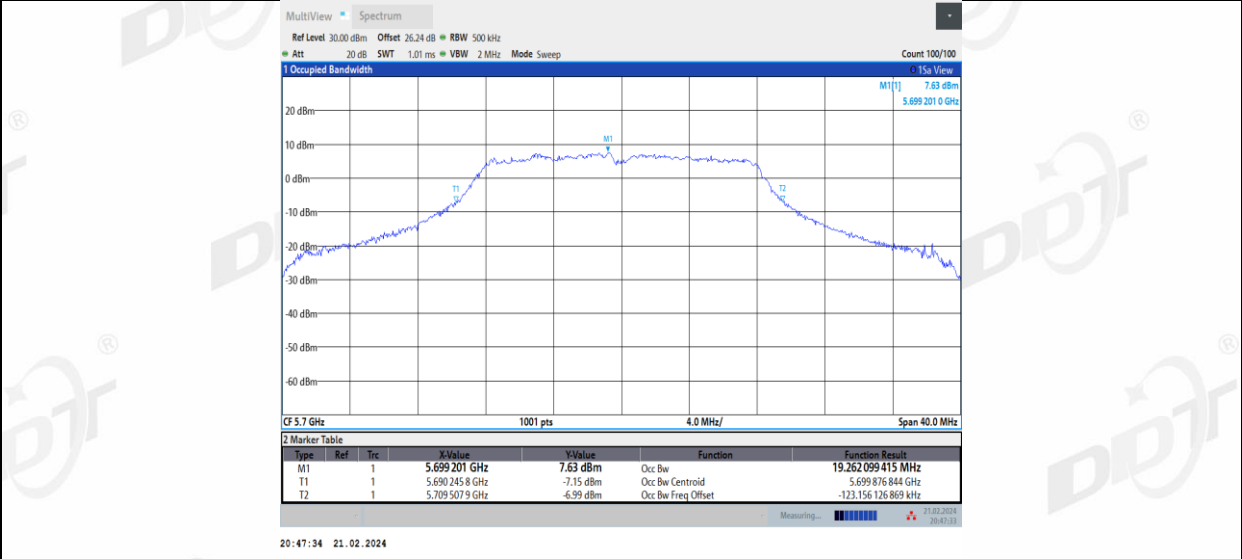
11A_Ant2_5580



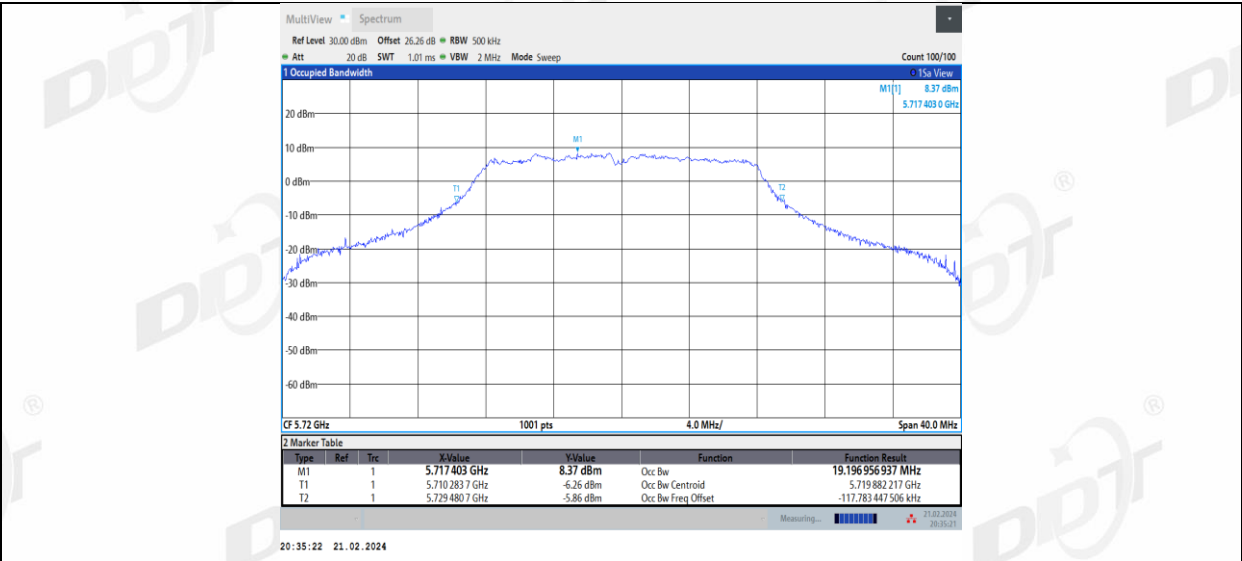
11A_Ant1_5700



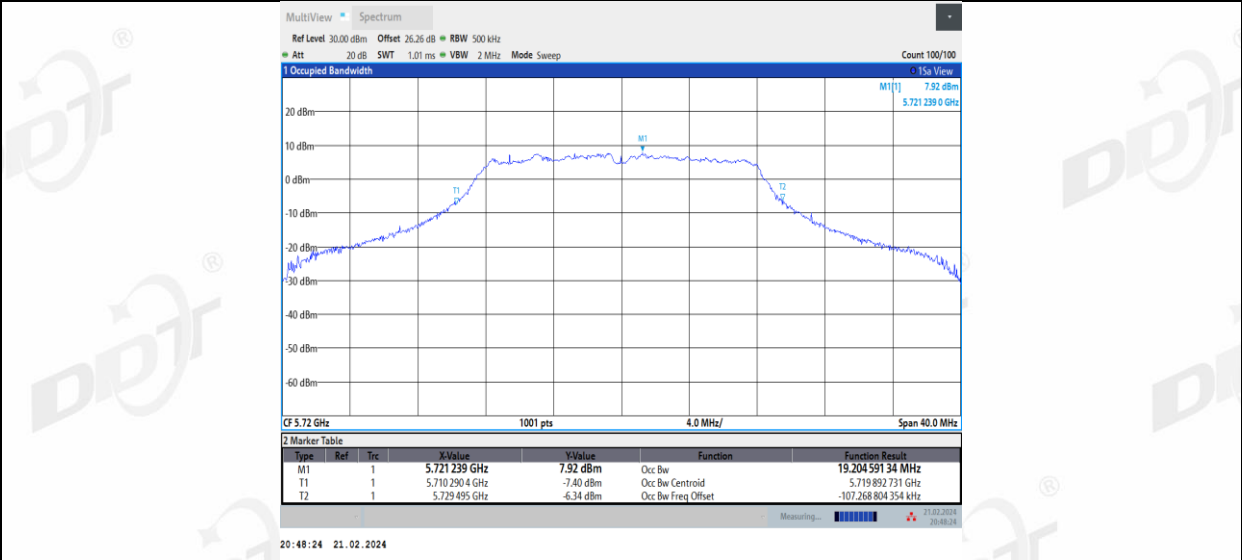
11A_Ant2_5700



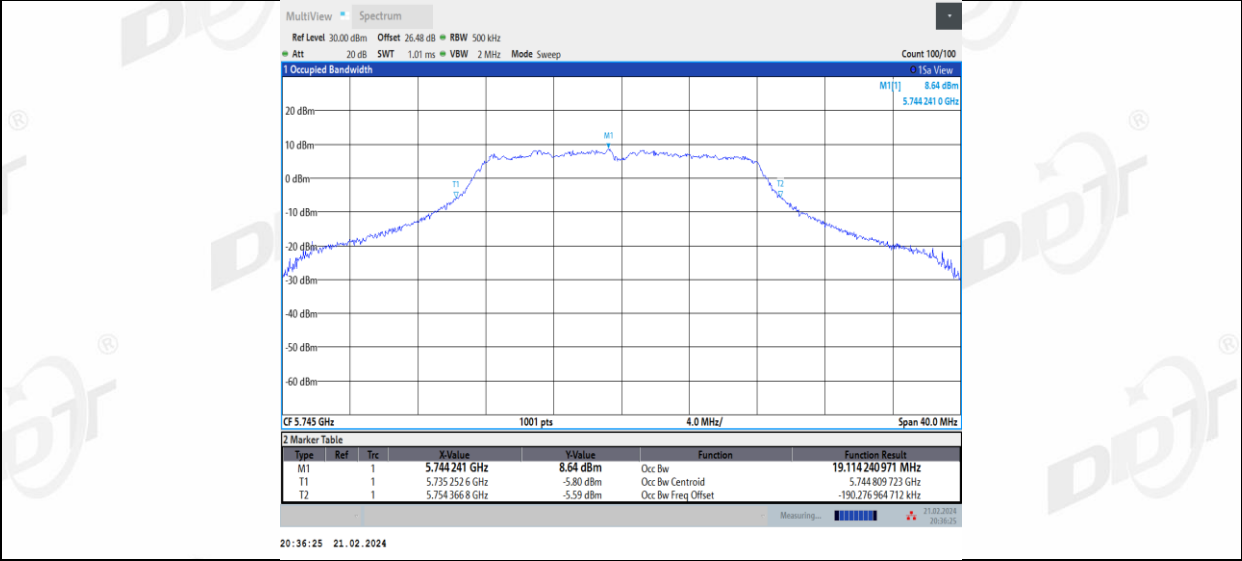
11A_Ant1_5720



11A_Ant2_5720



11A_Ant1_5745



11A_Ant2_5745