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## **Appendix for WLAN**

**Applicant: HONGKONG UCLOUDLINK NETWORK TECHNOLOGY  
LIMITED**

**Address: Suite 603, 6/F, Laws Commercial Plaza, 788 Cheung  
Sha Wan Road, Kowloon, Hong Kong**

**Product Name: 5G Wireless Data Terminal**

**Model: GLMU21A01**



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## Appendix A: DTS Bandwidth

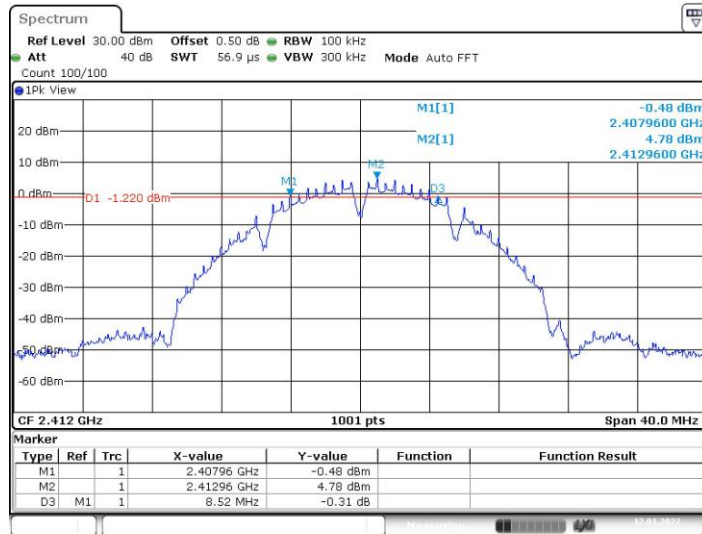
### Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant8	2412	8.52	2407.96	2416.48	0.5	PASS
	Ant9	2412	9.04	2407.44	2416.48	0.5	PASS
	Ant8	2437	8.08	2432.92	2441.00	0.5	PASS
	Ant9	2437	8.56	2432.44	2441.00	0.5	PASS
	Ant8	2462	8.56	2457.44	2466.00	0.5	PASS
	Ant9	2462	8.08	2457.92	2466.00	0.5	PASS
11G	Ant8	2412	15.72	2404.40	2420.12	0.5	PASS
	Ant9	2412	16.32	2403.80	2420.12	0.5	PASS
	Ant8	2437	16.36	2428.80	2445.16	0.5	PASS
	Ant9	2437	14.48	2428.80	2443.28	0.5	PASS
	Ant8	2462	15.12	2454.40	2469.52	0.5	PASS
	Ant9	2462	15.08	2454.44	2469.52	0.5	PASS
11N20MIMO	Ant8	2412	15.04	2405.68	2420.72	0.5	PASS
	Ant9	2412	17.56	2403.20	2420.76	0.5	PASS
	Ant8	2437	17.16	2428.20	2445.36	0.5	PASS
	Ant9	2437	16.36	2428.16	2444.52	0.5	PASS
	Ant8	2462	15.12	2454.40	2469.52	0.5	PASS
	Ant9	2462	16.92	2453.56	2470.48	0.5	PASS
11N40MIMO	Ant8	2422	35.04	2404.48	2439.52	0.5	PASS
	Ant9	2422	35.68	2403.84	2439.52	0.5	PASS
	Ant8	2437	36.40	2418.76	2455.16	0.5	PASS
	Ant9	2437	35.12	2419.40	2454.52	0.5	PASS
	Ant8	2452	33.84	2435.68	2469.52	0.5	PASS
	Ant9	2452	35.76	2433.76	2469.52	0.5	PASS

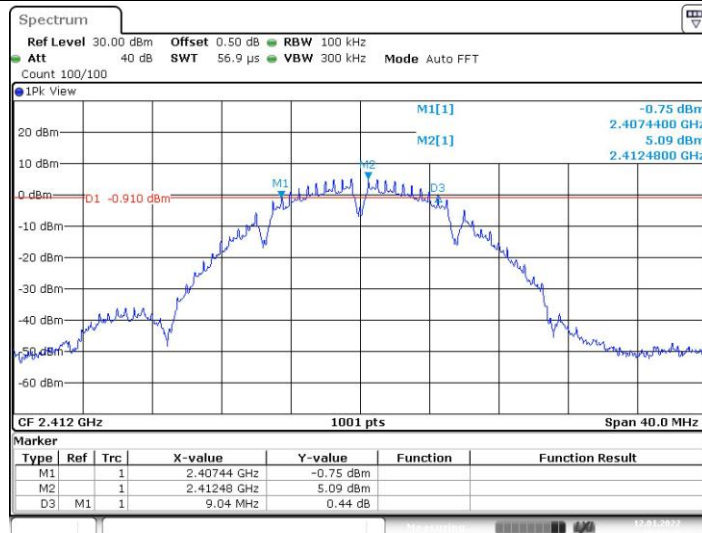


Test Graphs

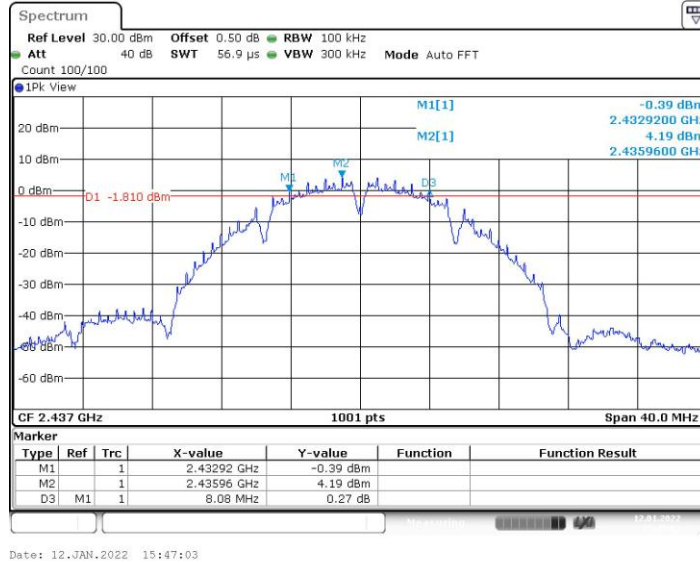
11B\_Ant8\_2412



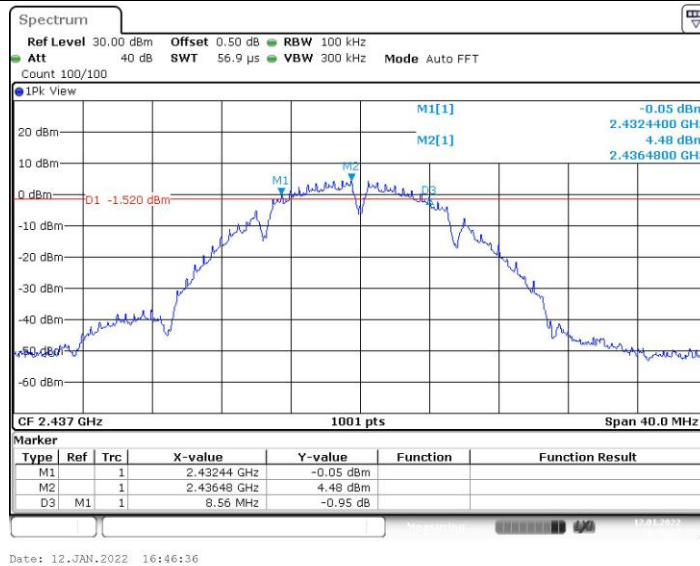
11B\_Ant9\_2412



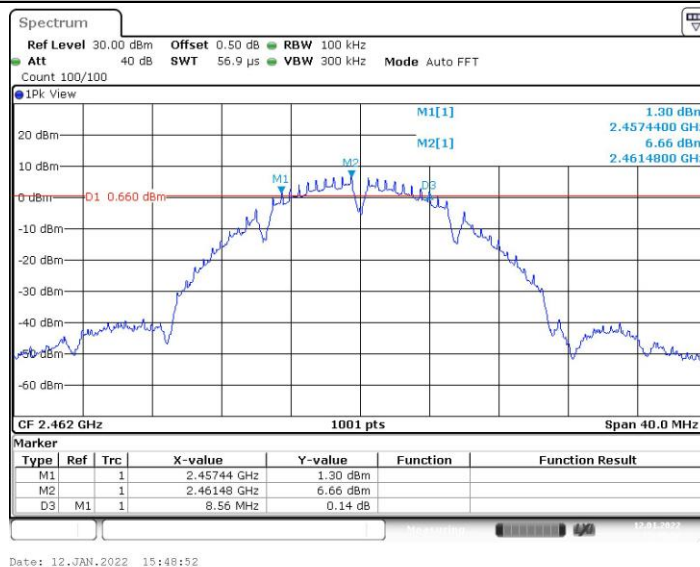
11B\_Ant8\_2437



11B\_Ant9\_2437

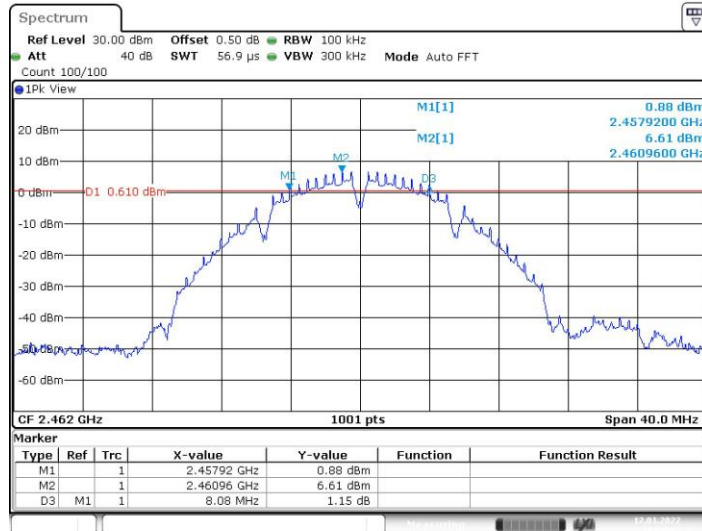


11B\_Ant8\_2462



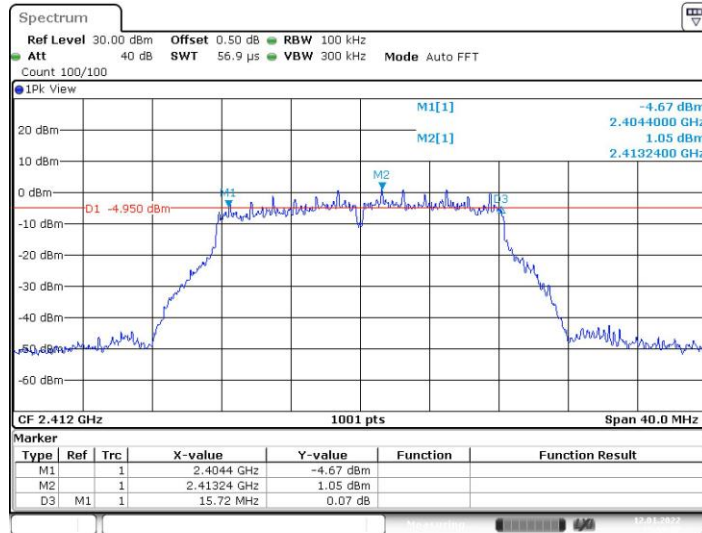


11B\_Ant9\_2462



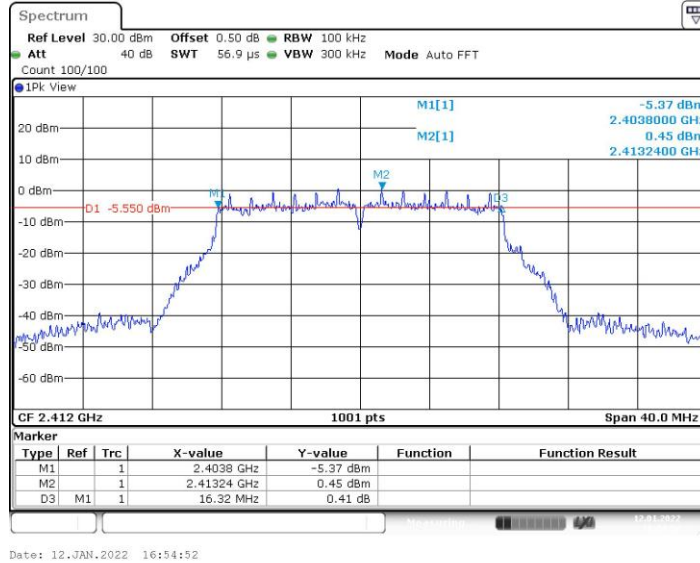
Date: 12.JAN.2022 16:50:00

11G\_Ant8\_2412

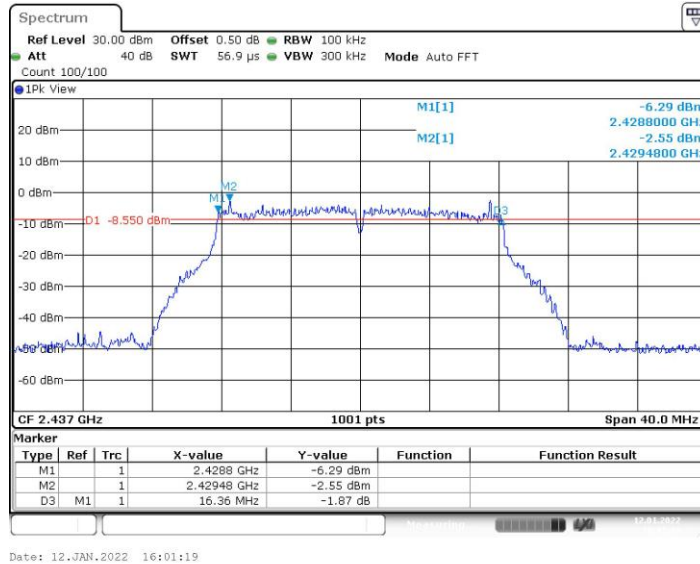


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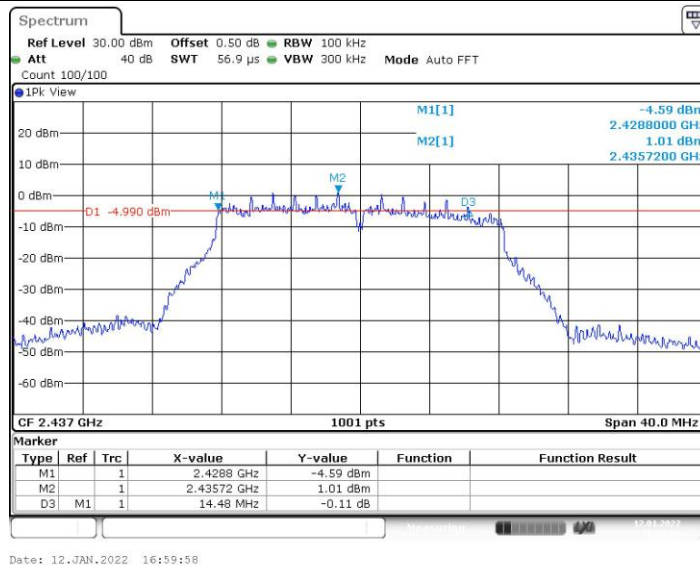
11G\_Ant9\_2412



11G\_Ant8\_2437

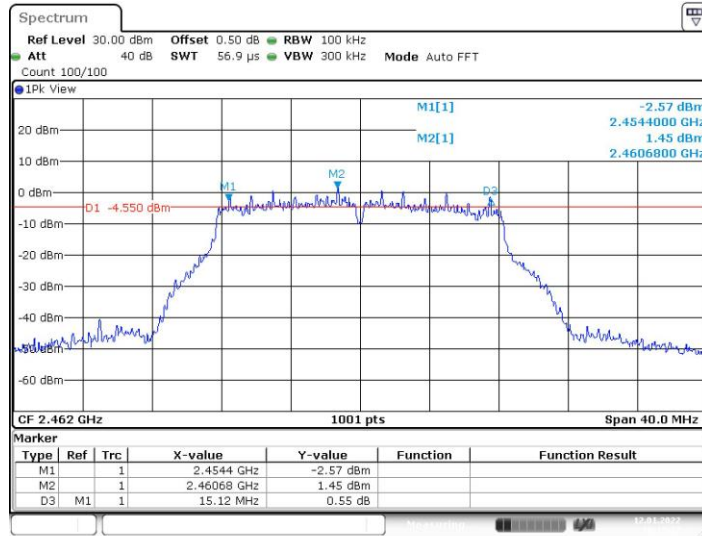


11G\_Ant9\_2437

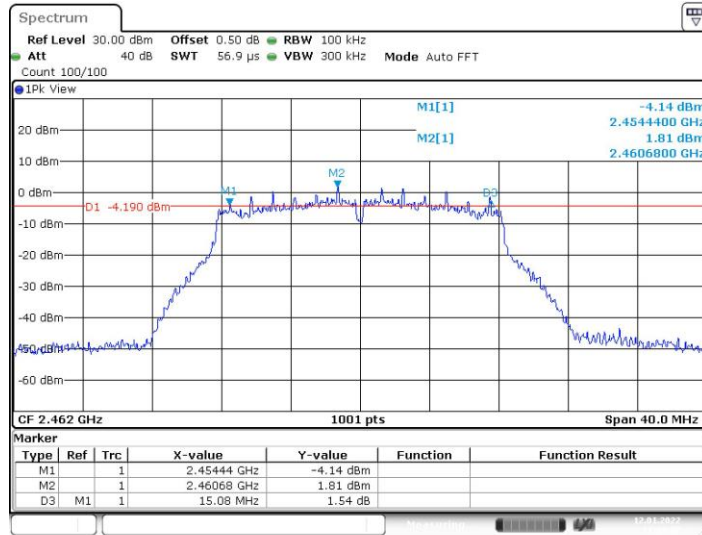




### 11G\_Ant8\_2462

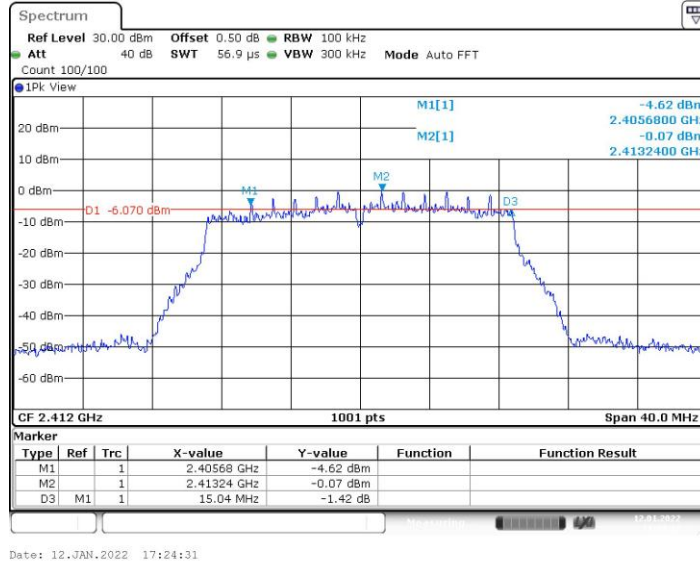


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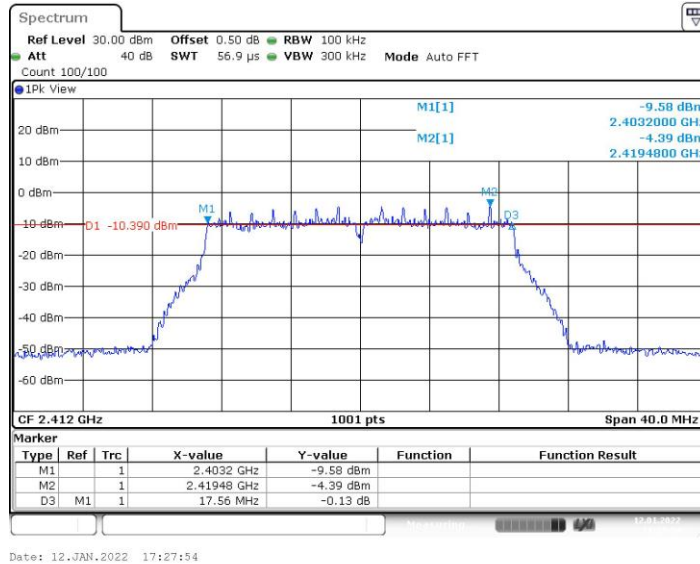


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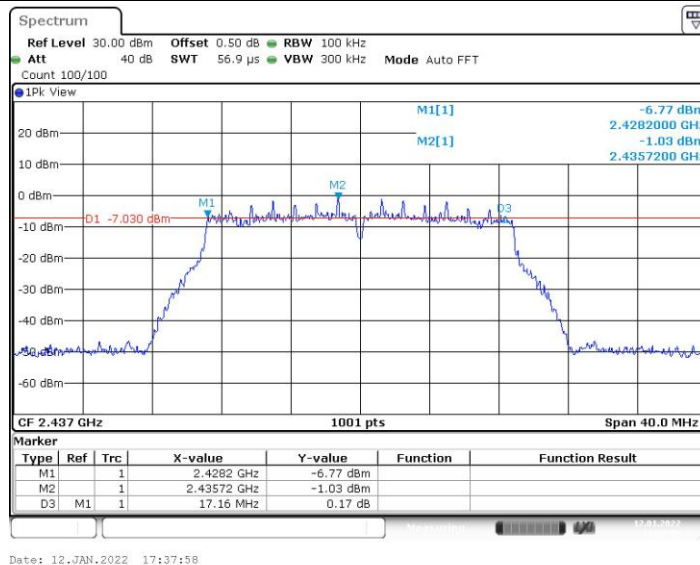




11N20MIMO\_Ant9\_2412

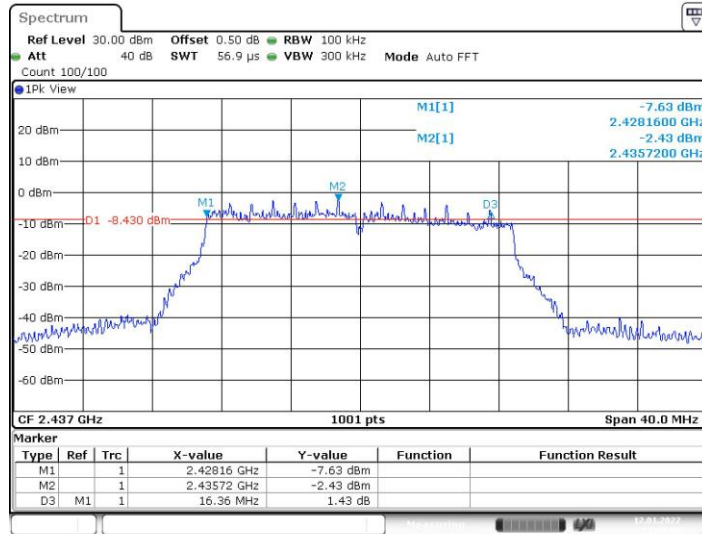


11N20MIMO\_Ant8\_2437



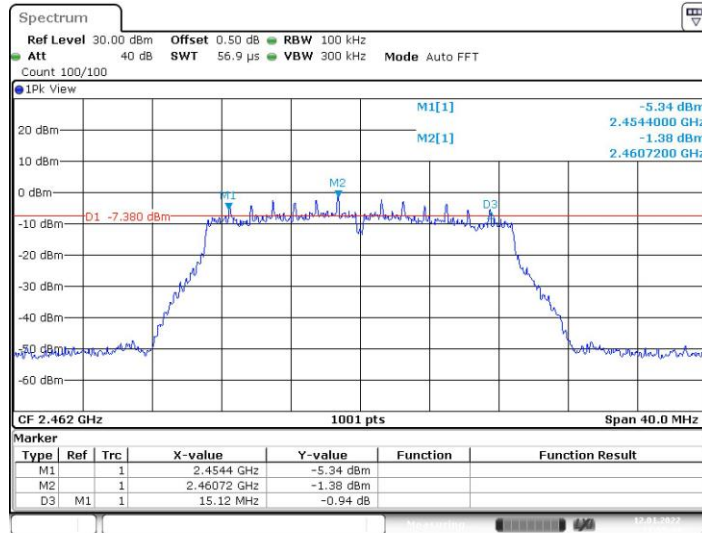


### 11N20MIMO\_Ant9\_2437



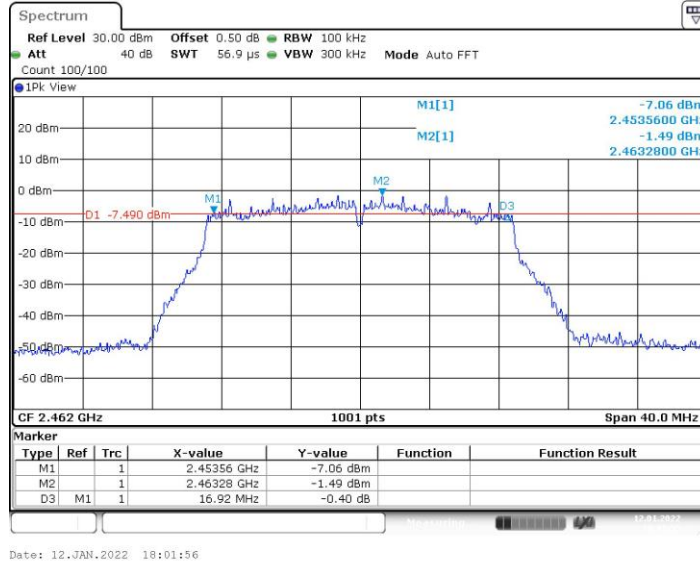
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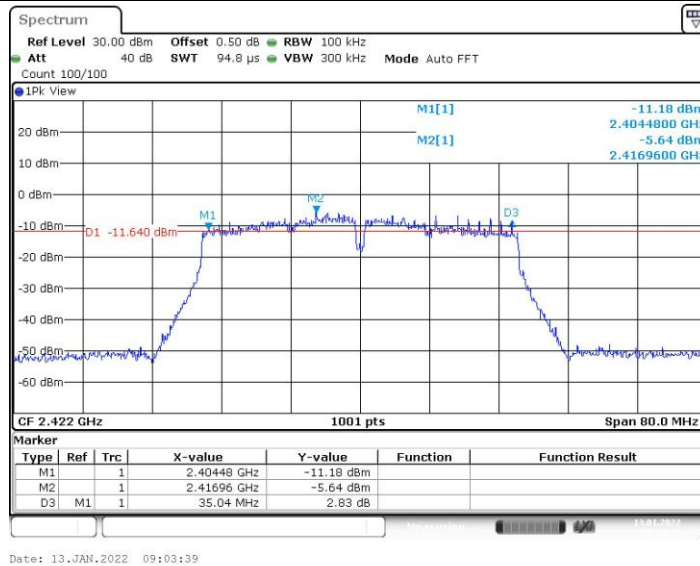


Date: 12.JAN.2022 17:57:44

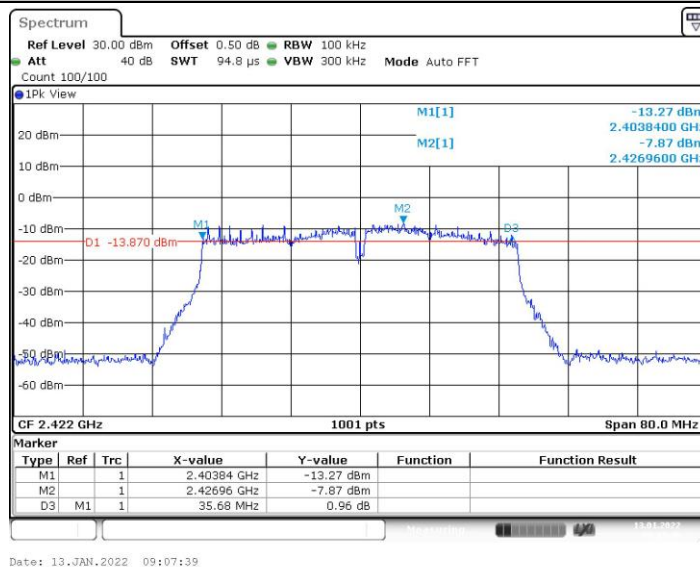
### 11N20MIMO\_Ant9\_2462



11N40MIMO\_Ant8\_2422

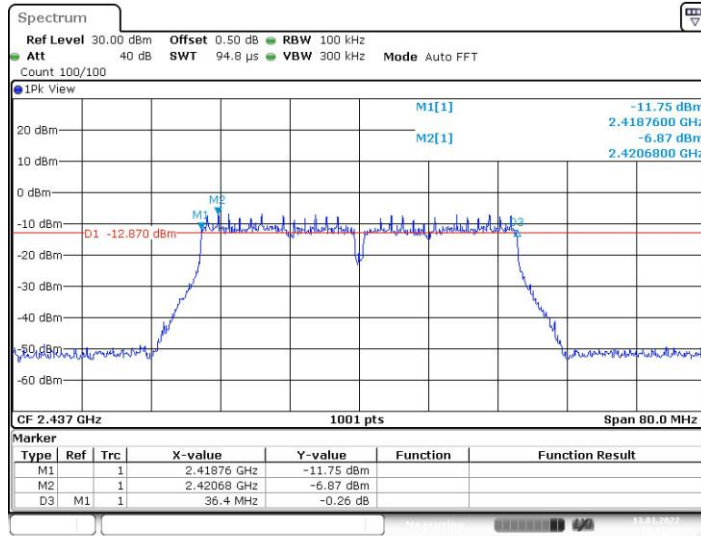


11N40MIMO\_Ant9\_2422



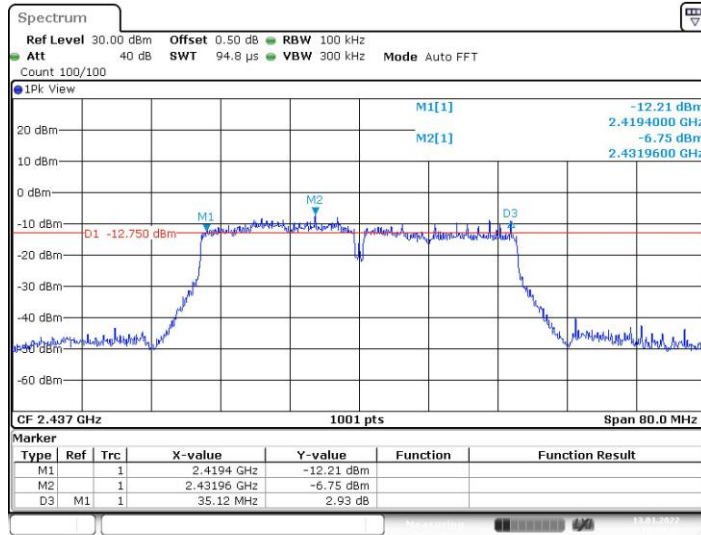


11N40MIMO\_Ant8\_2437



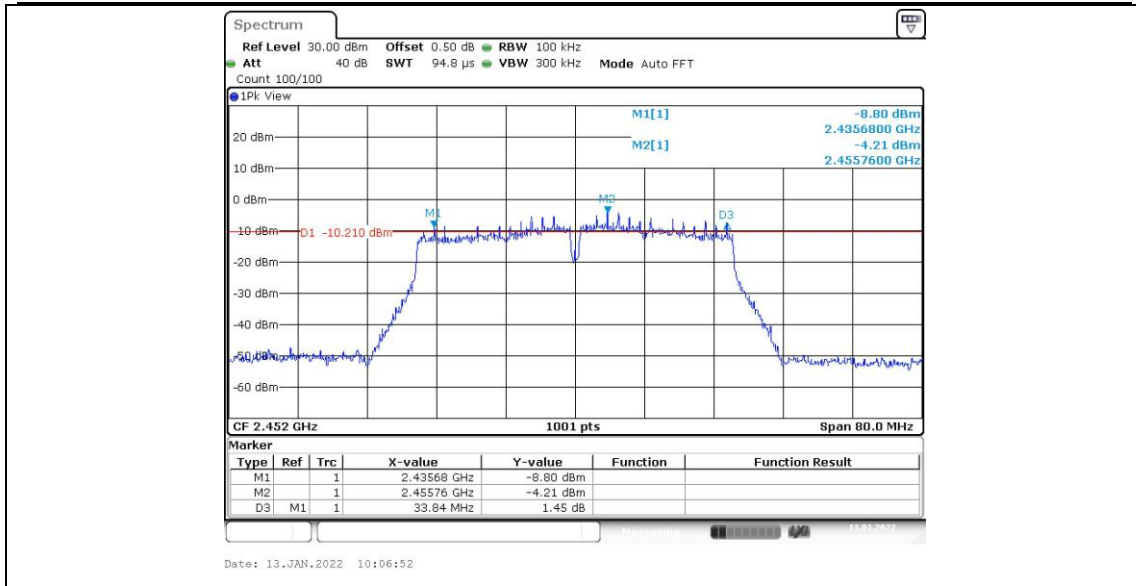
Date: 13.JAN.2022 10:01:42

11N40MIMO\_Ant9\_2437

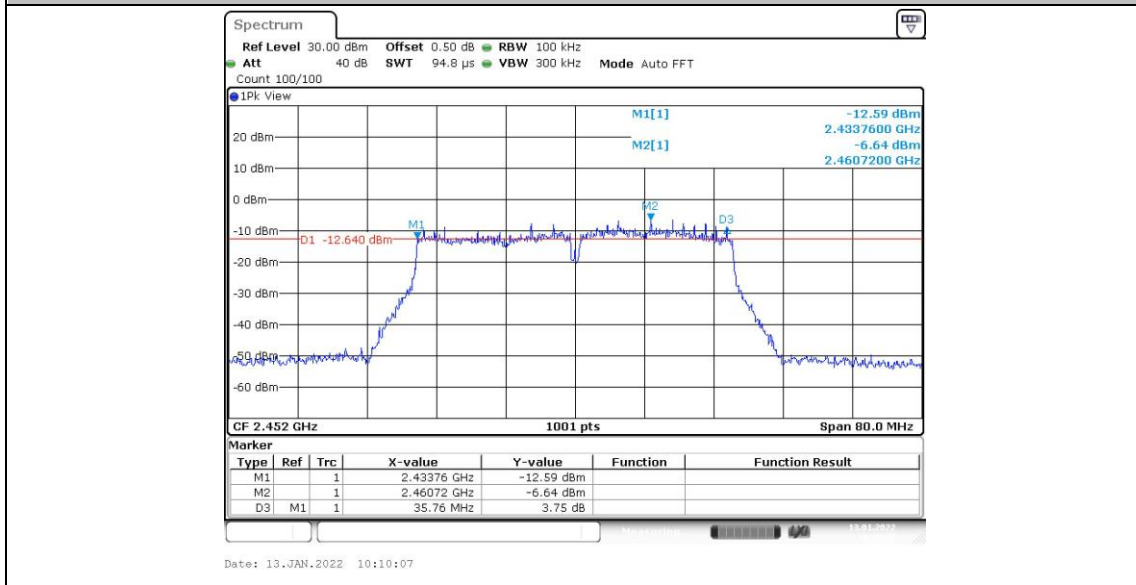


Date: 13.JAN.2022 10:04:17

11N40MIMO\_Ant8\_2452



11N40MIMO\_Ant9\_2452





## Appendix B: Occupied Channel Bandwidth

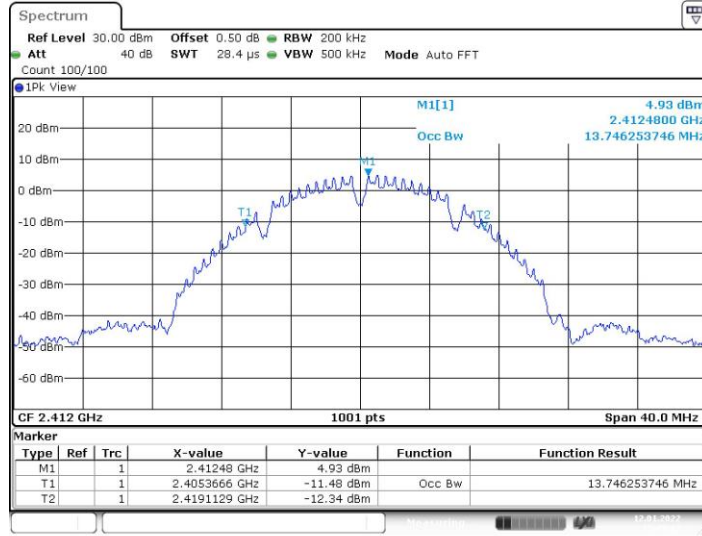
### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant8	2412	13.746	2405.367	2419.113	---	PASS
	Ant9	2412	13.866	2405.127	2418.993	---	PASS
	Ant8	2437	14.026	2429.927	2443.953	---	PASS
	Ant9	2437	13.546	2429.887	2443.434	---	PASS
	Ant8	2462	13.706	2455.007	2468.713	---	PASS
	Ant9	2462	13.307	2455.367	2468.673	---	PASS
11G	Ant8	2412	16.783	2403.648	2420.432	---	PASS
	Ant9	2412	17.023	2403.489	2420.511	---	PASS
	Ant8	2437	17.063	2428.369	2445.432	---	PASS
	Ant9	2437	17.023	2428.249	2445.272	---	PASS
	Ant8	2462	16.943	2453.449	2470.392	---	PASS
	Ant9	2462	16.783	2453.608	2470.392	---	PASS
11N20MIMO	Ant8	2412	18.182	2402.889	2421.071	---	PASS
	Ant9	2412	18.222	2402.929	2421.151	---	PASS
	Ant8	2437	18.022	2427.969	2445.991	---	PASS
	Ant9	2437	18.142	2427.729	2445.871	---	PASS
	Ant8	2462	17.982	2452.929	2470.911	---	PASS
	Ant9	2462	17.782	2453.089	2470.871	---	PASS
11N40MIMO	Ant8	2422	36.444	2403.618	2440.062	---	PASS
	Ant9	2422	36.364	2403.698	2440.062	---	PASS
	Ant8	2437	36.523	2418.698	2455.222	---	PASS
	Ant9	2437	36.364	2418.778	2455.142	---	PASS
	Ant8	2452	36.284	2433.858	2470.142	---	PASS
	Ant9	2452	36.523	2433.618	2470.142	---	PASS



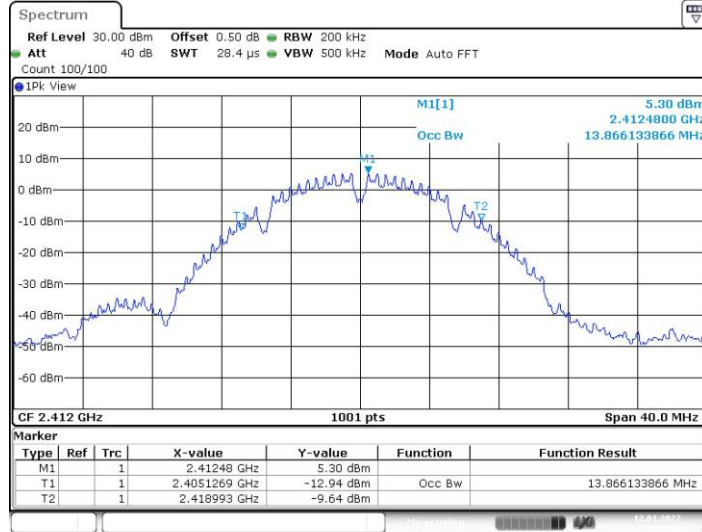
Test Graphs

11B\_Ant8\_2412



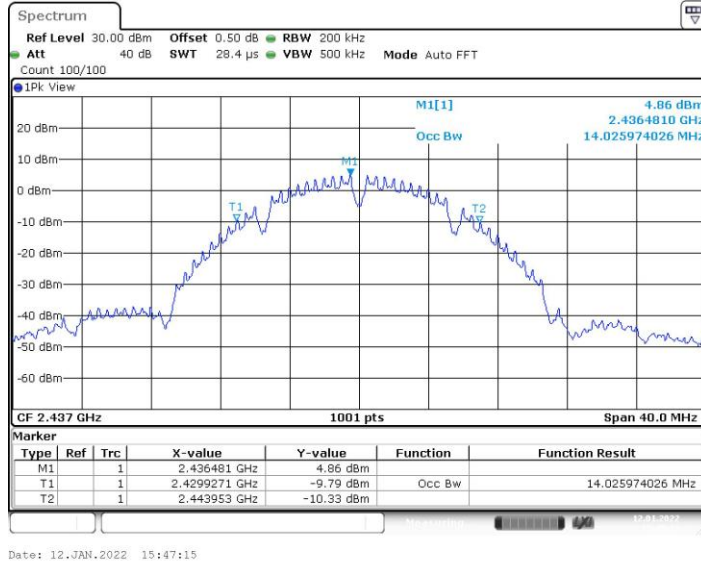
Date: 12.JAN.2022 15:43:00

11B\_Ant9\_2412

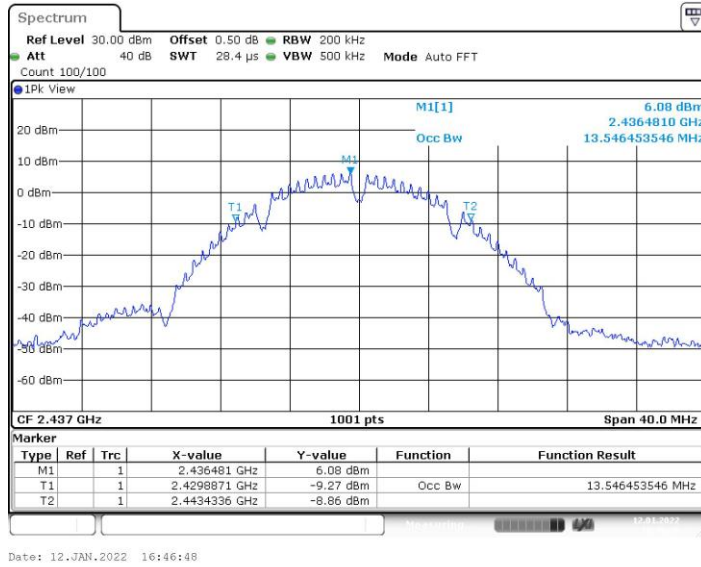


Date: 12.JAN.2022 16:36:01

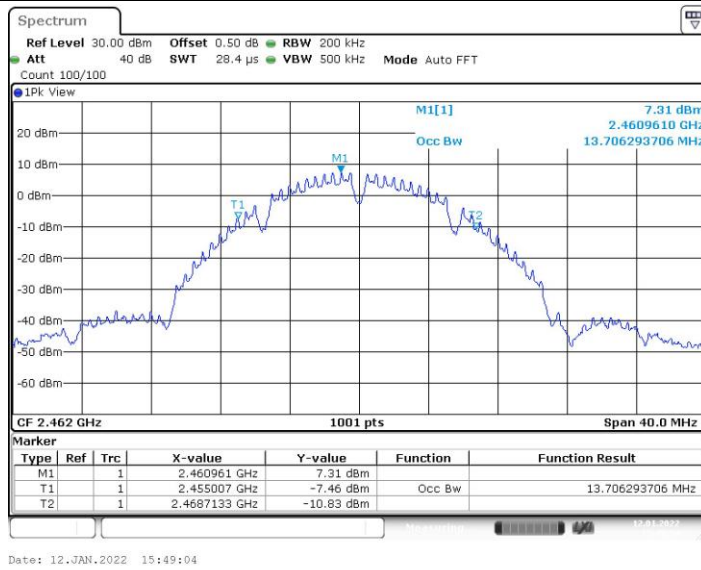
11B\_Ant8\_2437



11B\_Ant9\_2437



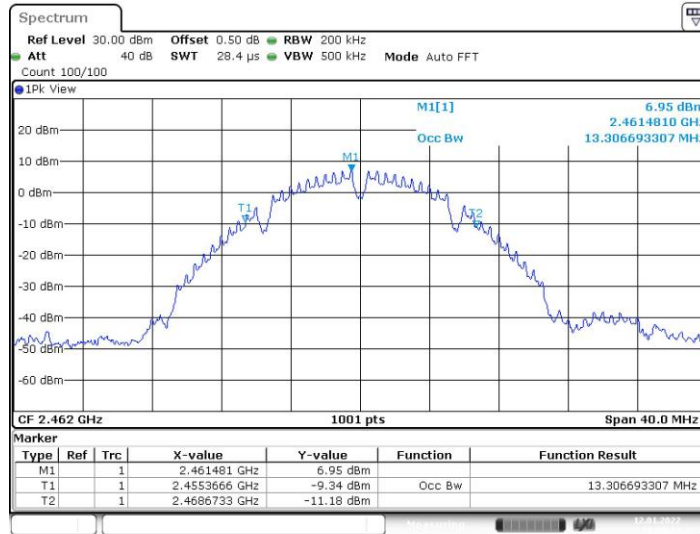
11B\_Ant8\_2462





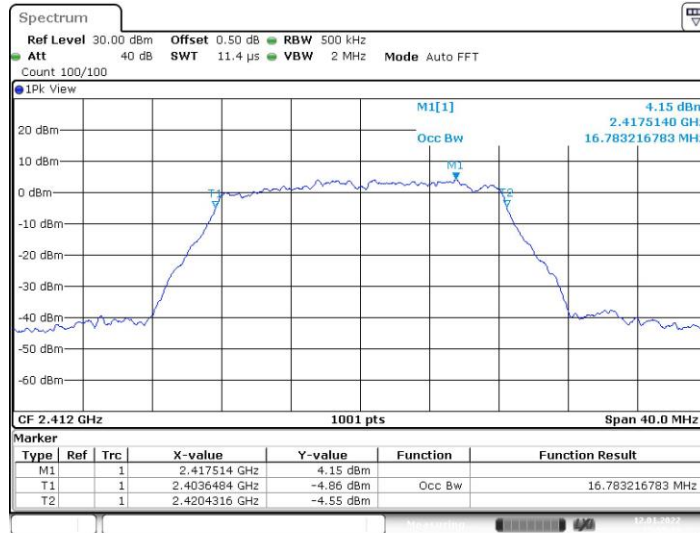


### 11B\_Ant9\_2462



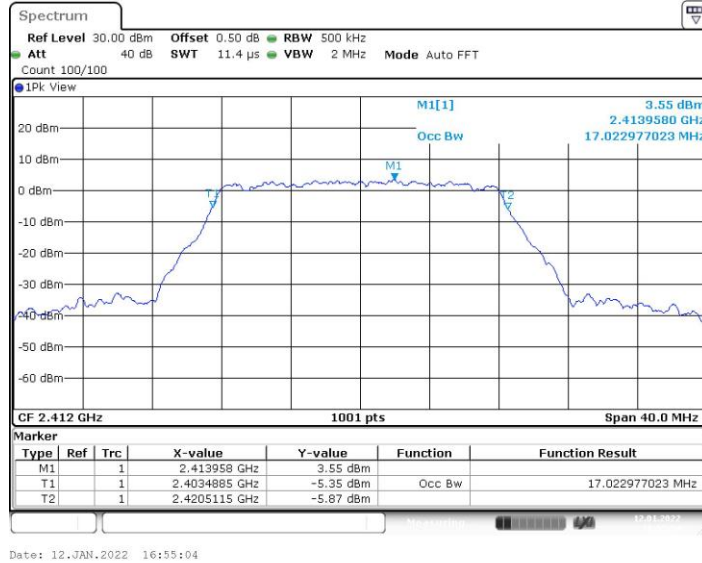
Date: 12.JAN.2022 16:50:12

### 11G\_Ant8\_2412

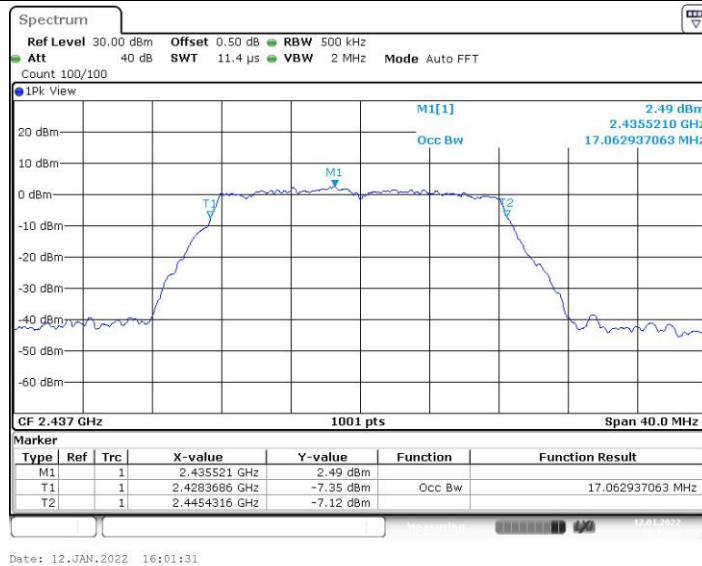


Date: 12.JAN.2022 15:57:19

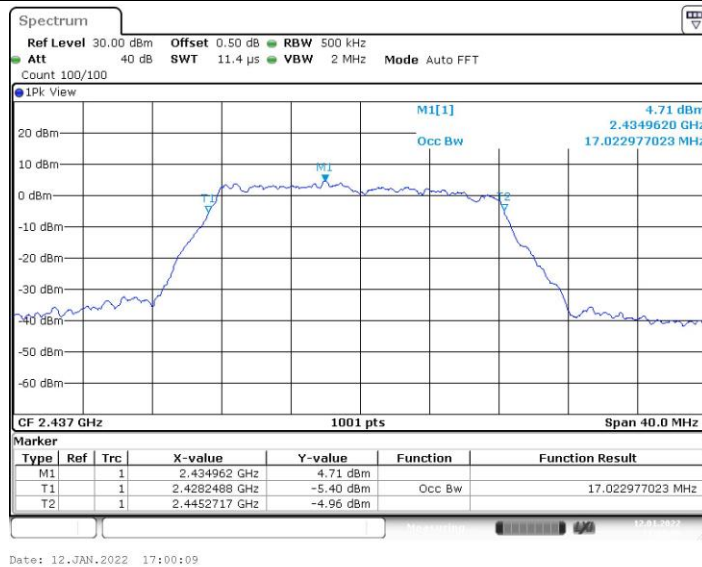
### 11G\_Ant9\_2412



11G\_Ant8\_2437

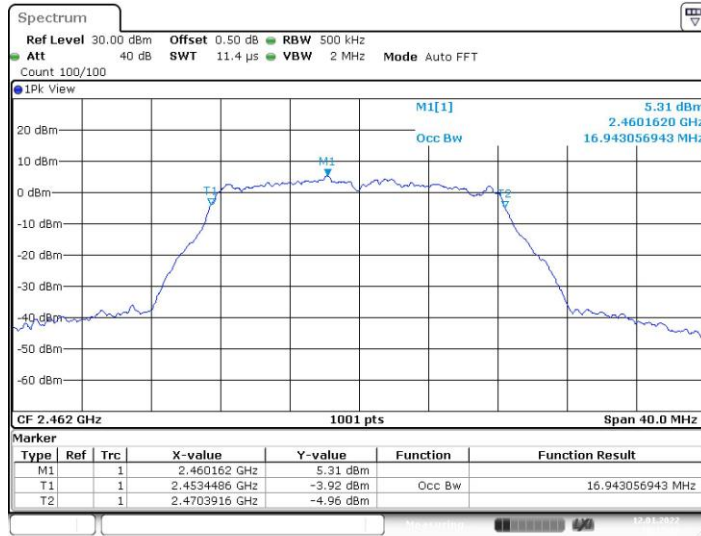


11G\_Ant9\_2437



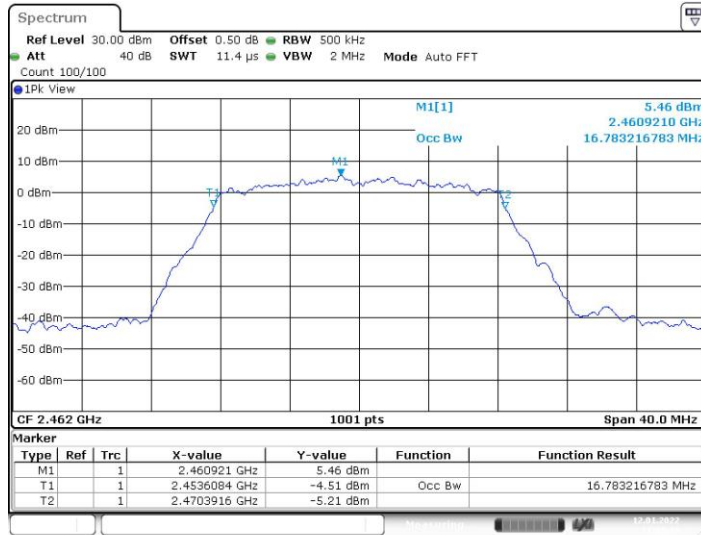


### 11G\_Ant8\_2462



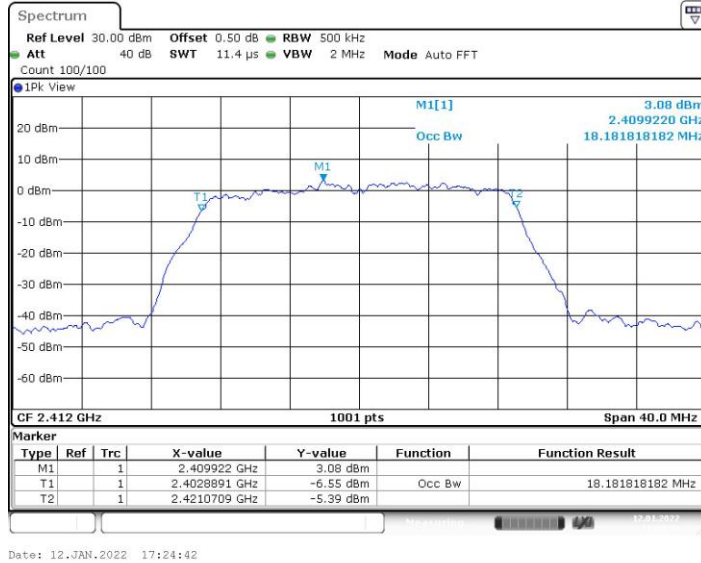
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### 11G\_Ant9\_2462

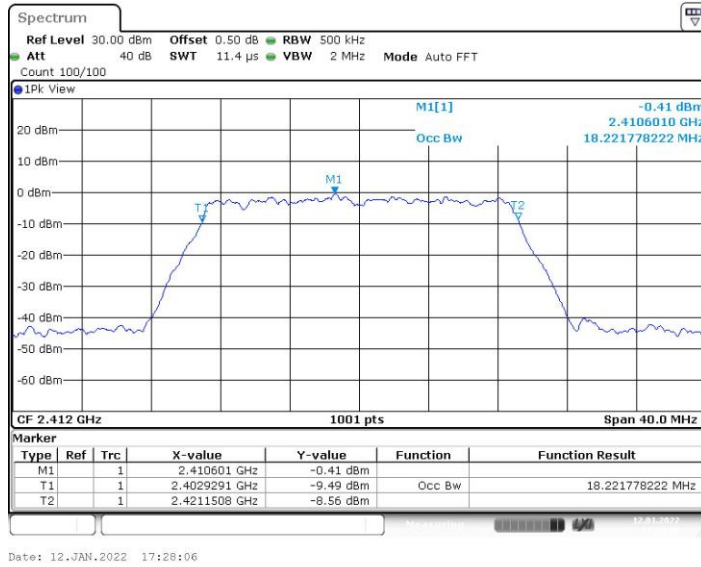


Date: 12.JAN.2022 17:03:19

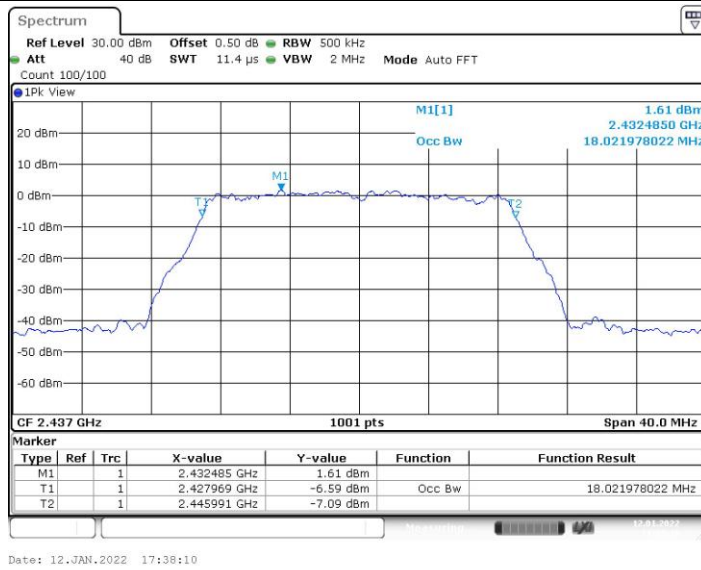
### 11N20MIMO\_Ant8\_2412



11N20MIMO\_Ant9\_2412



11N20MIMO\_Ant8\_2437





### 11N20MIMO\_Ant9\_2437



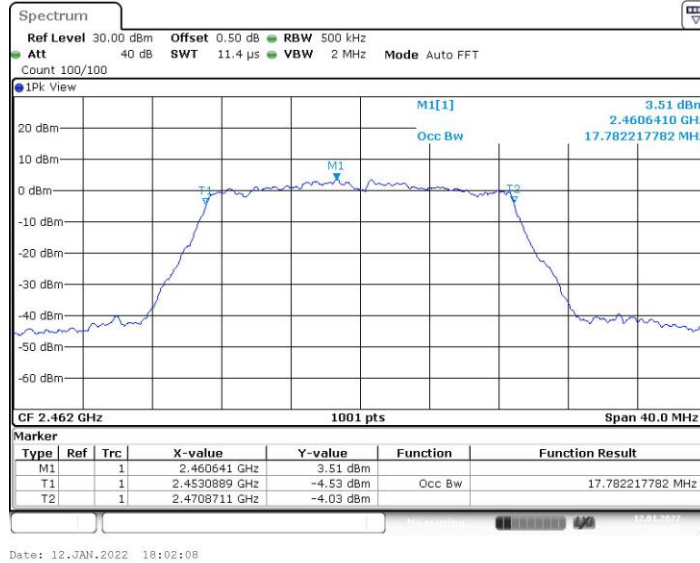
Date: 12.JAN.2022 17:44:36

### 11N20MIMO\_Ant8\_2462

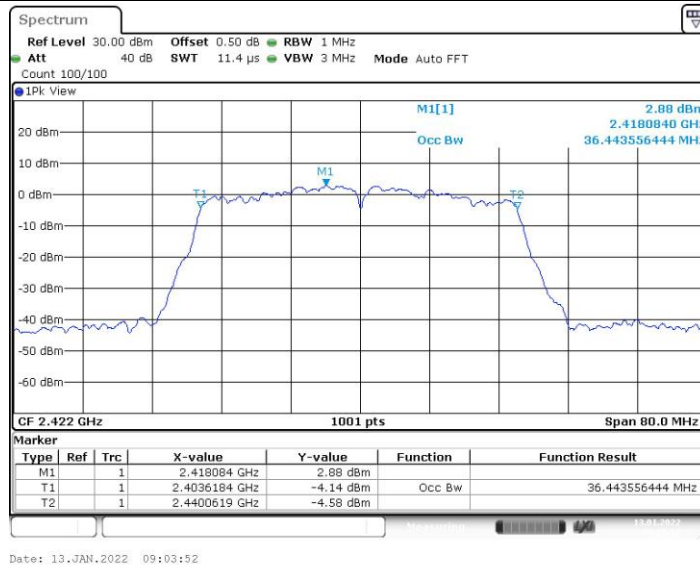


Date: 12.JAN.2022 17:57:56

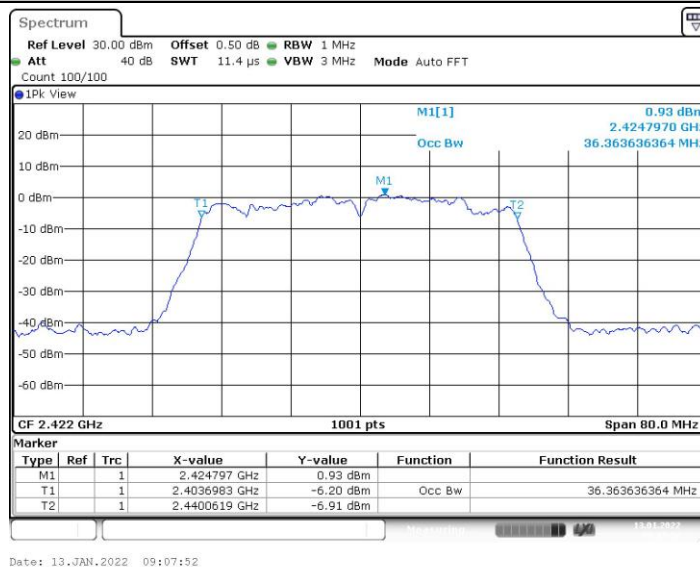
### 11N20MIMO\_Ant9\_2462



11N40MIMO\_Ant8\_2422

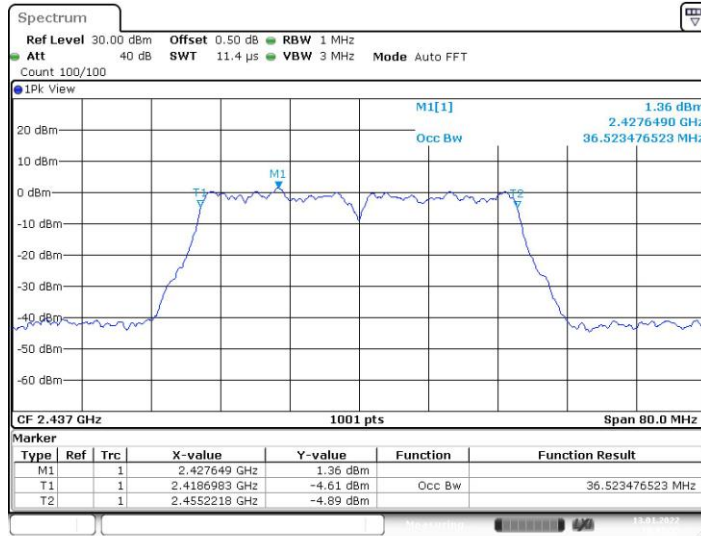


11N40MIMO\_Ant9\_2422



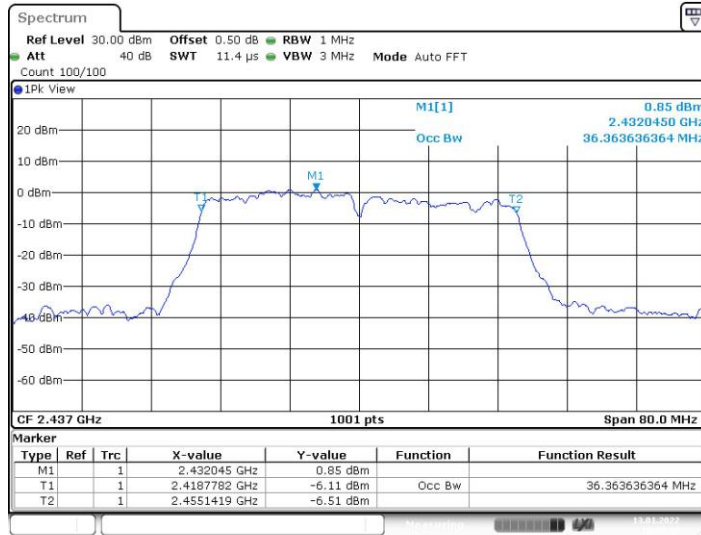


11N40MIMO\_Ant8\_2437



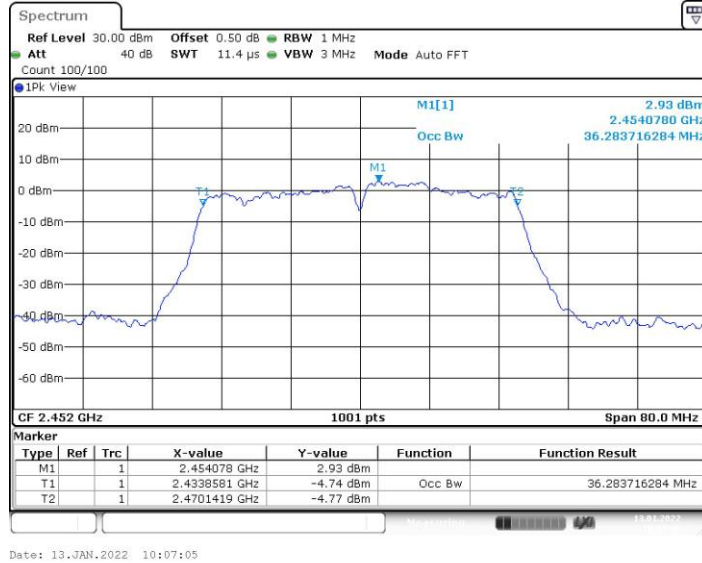
Date: 13.JAN.2022 10:01:55

11N40MIMO\_Ant9\_2437

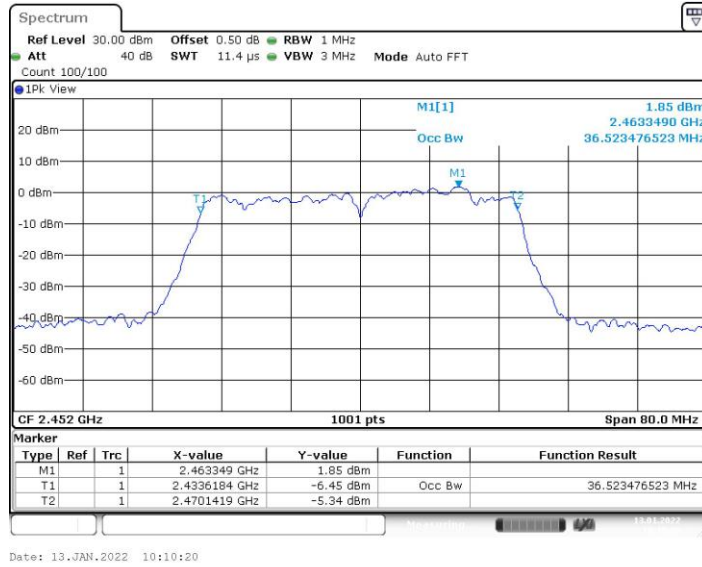


Date: 13.JAN.2022 10:04:30

11N40MIMO\_Ant8\_2452



11N40MIMO\_Ant9\_2452







## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant8	2412	15.52	≤30	PASS
	Ant9	2412	16.27	≤30	PASS
	Ant8	2437	15.48	≤30	PASS
	Ant9	2437	16.64	≤30	PASS
	Ant8	2462	17.87	≤30	PASS
	Ant9	2462	17.49	≤30	PASS
11G	Ant8	2412	17.63	≤30	PASS
	Ant9	2412	17.59	≤30	PASS
	Ant8	2437	16.22	≤30	PASS
	Ant9	2437	17.34	≤30	PASS
	Ant8	2462	17.93	≤30	PASS
	Ant9	2462	18.02	≤30	PASS
11N20MIMO	Ant8	2412	15.99	≤30	PASS
	Ant9	2412	13.11	≤30	PASS
	total	2412	17.8	≤30	PASS
	Ant8	2437	15.67	≤30	PASS
	Ant9	2437	14.76	≤30	PASS
	total	2437	18.2	≤30	PASS
	Ant8	2462	14.24	≤30	PASS
	Ant9	2462	16.63	≤30	PASS
	total	2462	18.6	≤30	PASS
11N40MIMO	Ant8	2422	15.93	≤30	PASS
	Ant9	2422	13.94	≤30	PASS
	total	2422	18.1	≤30	PASS
	Ant8	2437	14.17	≤30	PASS
	Ant9	2437	13.55	≤30	PASS
	total	2437	16.9	≤30	PASS
	Ant8	2452	15.15	≤30	PASS
	Ant9	2452	14.21	≤30	PASS
	total	2452	17.7	≤30	PASS



## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant8	2412	-9.17	≤8	PASS
	Ant9	2412	-10	≤8	PASS
	Ant8	2437	-9.24	≤8	PASS
	Ant9	2437	-8.53	≤8	PASS
	Ant8	2462	-7.1	≤8	PASS
	Ant9	2462	-6.91	≤8	PASS
11G	Ant8	2412	-12.82	≤8	PASS
	Ant9	2412	-14.66	≤8	PASS
	Ant8	2437	-14.78	≤8	PASS
	Ant9	2437	-13.83	≤8	PASS
	Ant8	2462	-13.61	≤8	PASS
	Ant9	2462	-13.3	≤8	PASS
11N20MIMO	Ant8	2412	-15.81	≤8	PASS
	Ant9	2412	-19.15	≤8	PASS
	total	2412	-14.16	≤8	PASS
	Ant8	2437	-16.2	≤8	PASS
	Ant9	2437	-17.6	≤8	PASS
	total	2437	-13.83	≤8	PASS
	Ant8	2462	-17.17	≤8	PASS
	Ant9	2462	-14.57	≤8	PASS
total	2462	-12.67	≤8	PASS	
11N40MIMO	Ant8	2422	-17.63	≤8	PASS
	Ant9	2422	-18.23	≤8	PASS
	total	2422	-14.91	≤8	PASS
	Ant8	2437	-19.04	≤8	PASS
	Ant9	2437	-20.38	≤8	PASS
	total	2437	-16.65	≤8	PASS
	Ant8	2452	-18.94	≤8	PASS
	Ant9	2452	-20.65	≤8	PASS
	total	2452	-16.70	≤8	PASS