

# RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
<b>Product Name:</b>	Smart IR Remote with Temp & Humidity Sensor
<b>Test Model:</b>	S16
<b>Sample ID:</b>	202203-0097-4-2#
Environmental Conditions	
<b>Temperature:</b>	24°C
<b>Relative Humidity:</b>	50%
<b>Test Voltage:</b>	DC 5V
<b>Test Engineer:</b>	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202203-0097-10	

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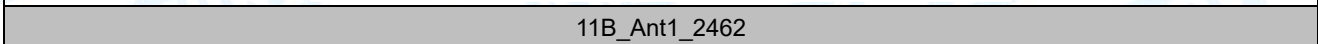
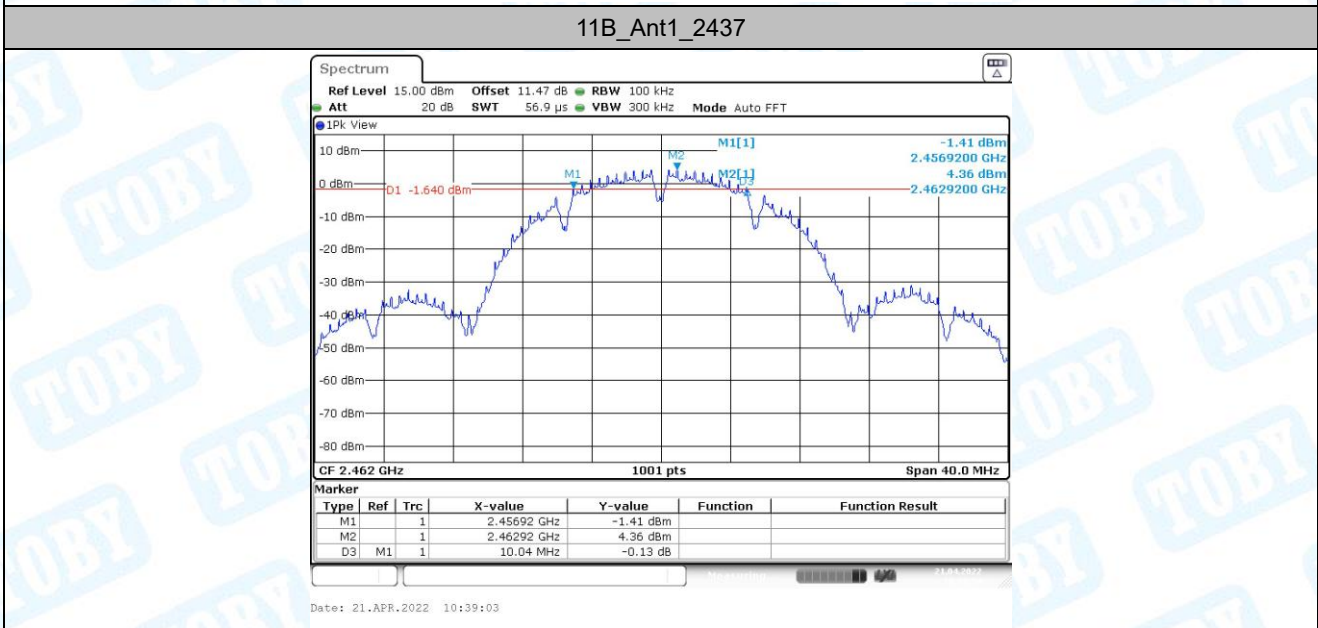
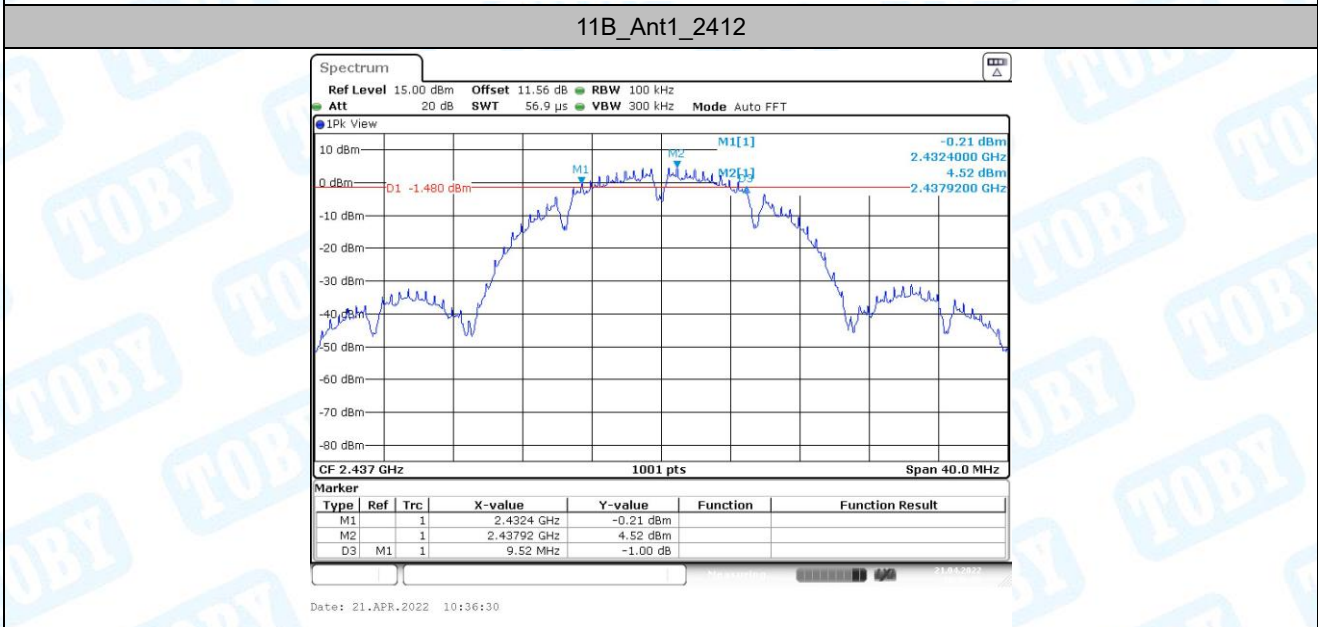
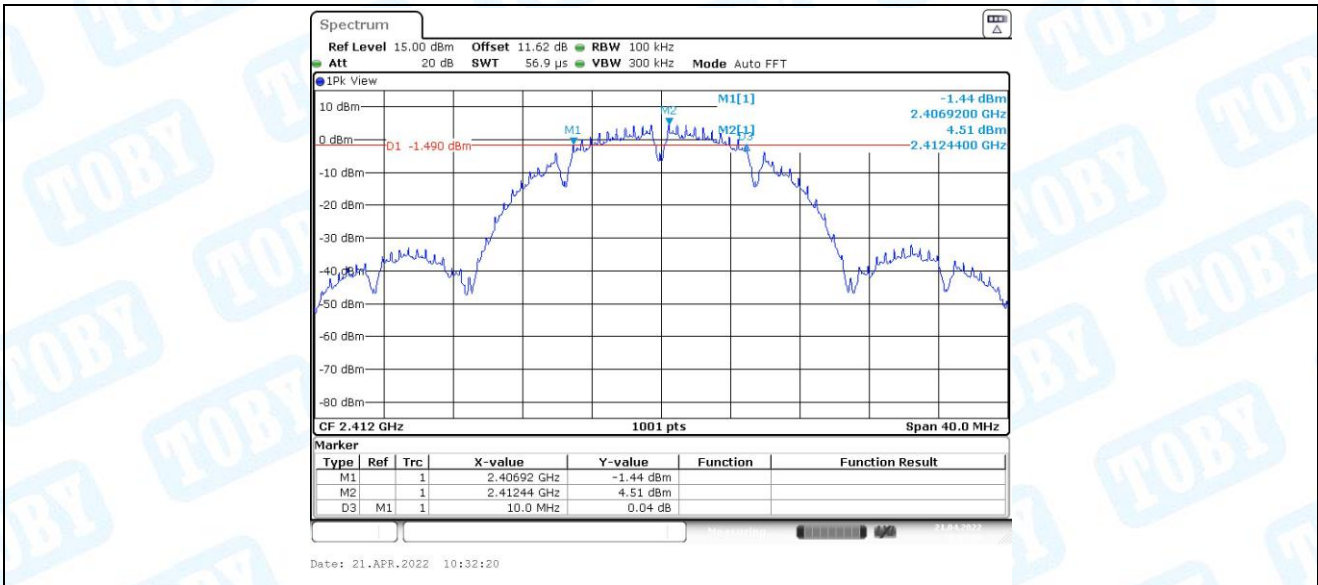


## 1. DTS Bandwidth

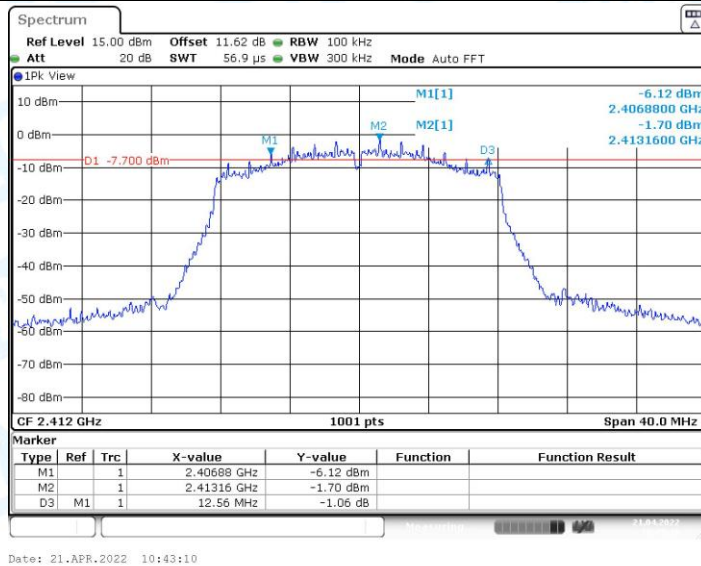
### 1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.00	2406.92	2416.92	0.5	PASS
		2437	9.52	2432.40	2441.92	0.5	PASS
		2462	10.04	2456.92	2466.96	0.5	PASS
11G	Ant1	2412	12.56	2406.88	2419.44	0.5	PASS
		2437	12.60	2431.88	2444.48	0.5	PASS
		2462	12.56	2456.88	2469.44	0.5	PASS
11N20SISO	Ant1	2412	12.56	2406.88	2419.44	0.5	PASS
		2437	12.56	2431.88	2444.44	0.5	PASS
		2462	11.32	2456.88	2468.20	0.5	PASS
11N40SISO	Ant1	2422	33.92	2405.60	2439.52	0.5	PASS
		2437	30.16	2424.36	2454.52	0.5	PASS
		2452	31.28	2438.16	2469.44	0.5	PASS

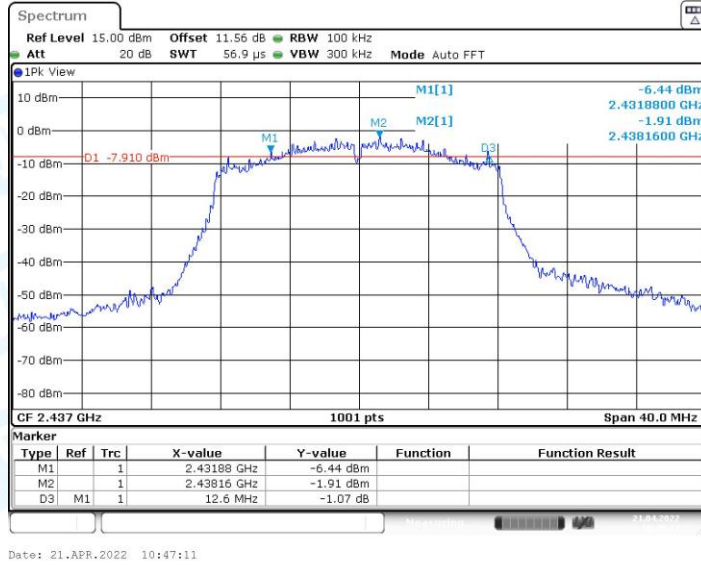
## 1.2. Test Graphs



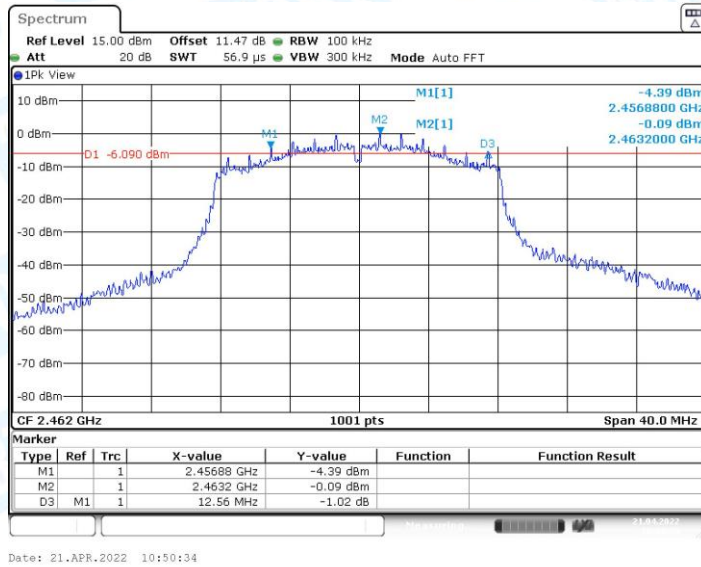




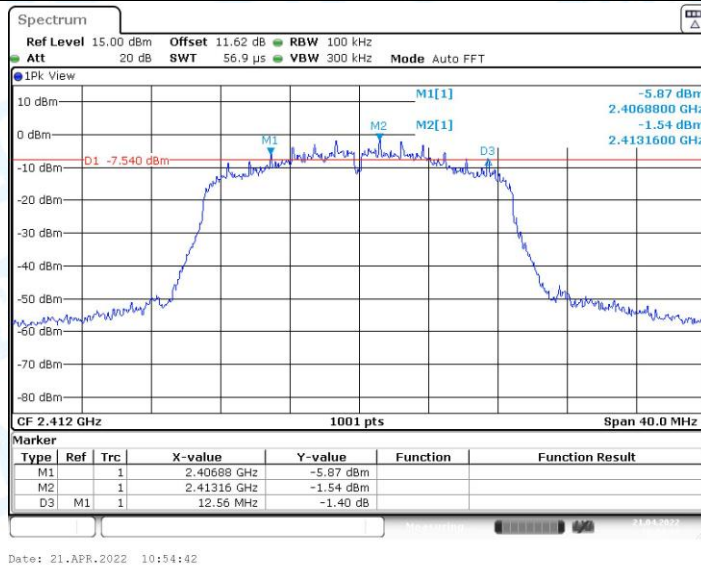
11G\_Ant1\_2412



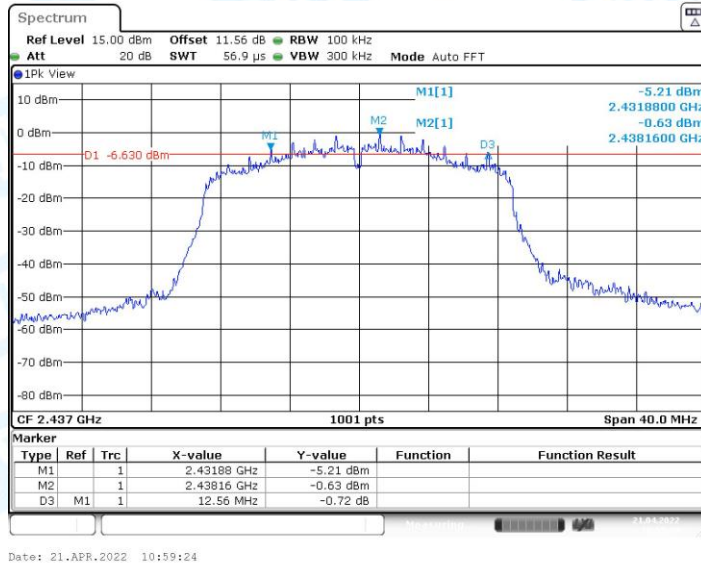
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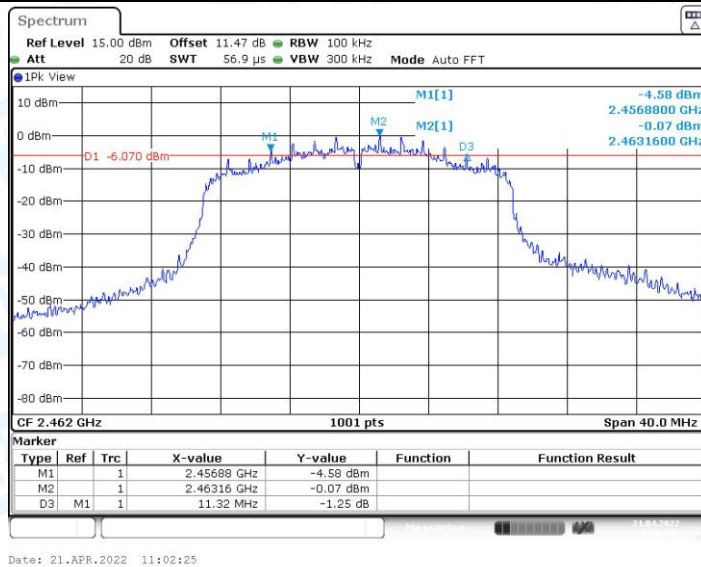
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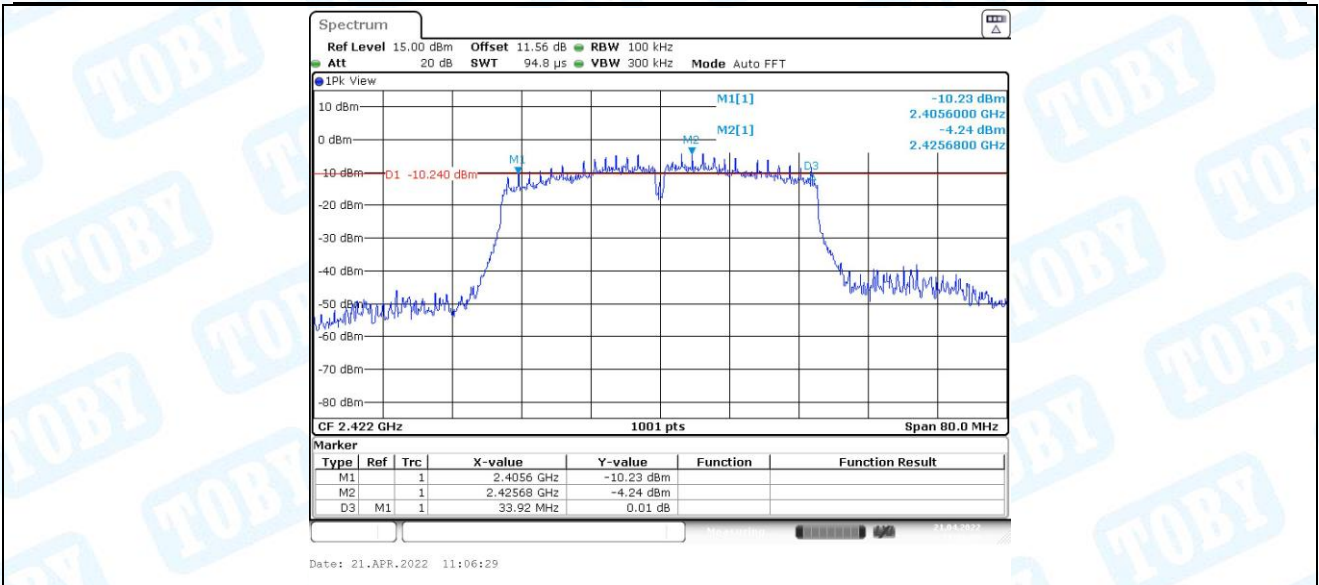


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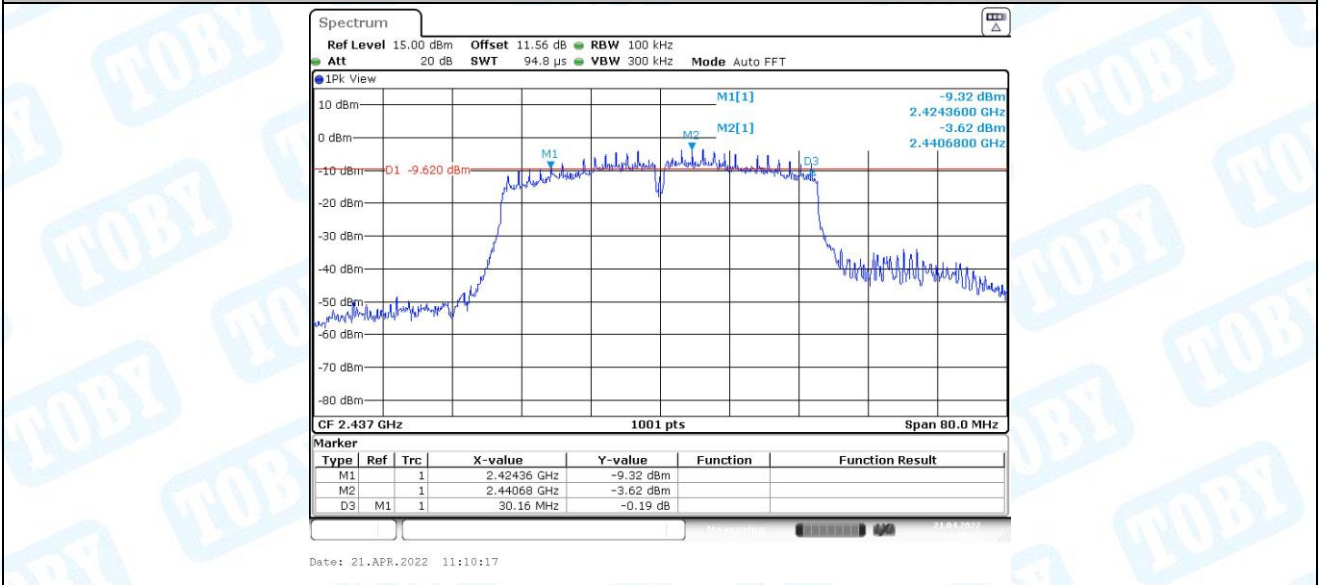


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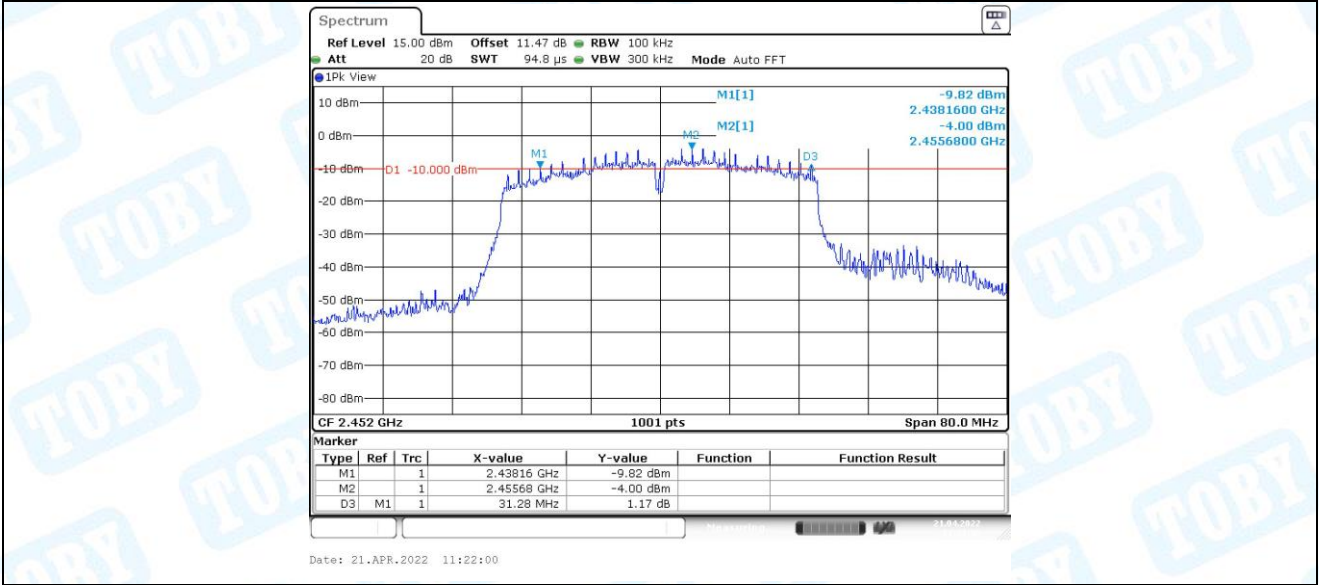




11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

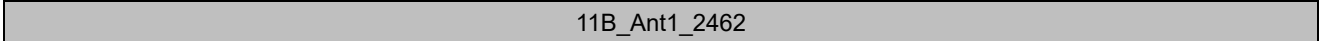
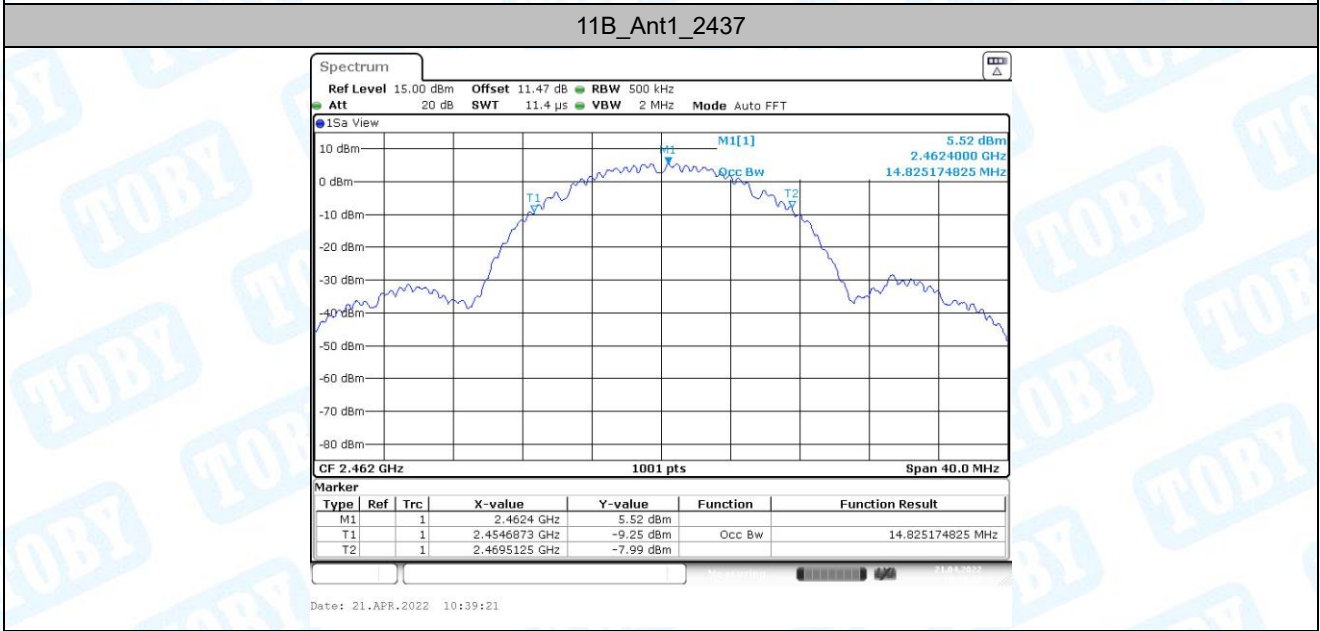
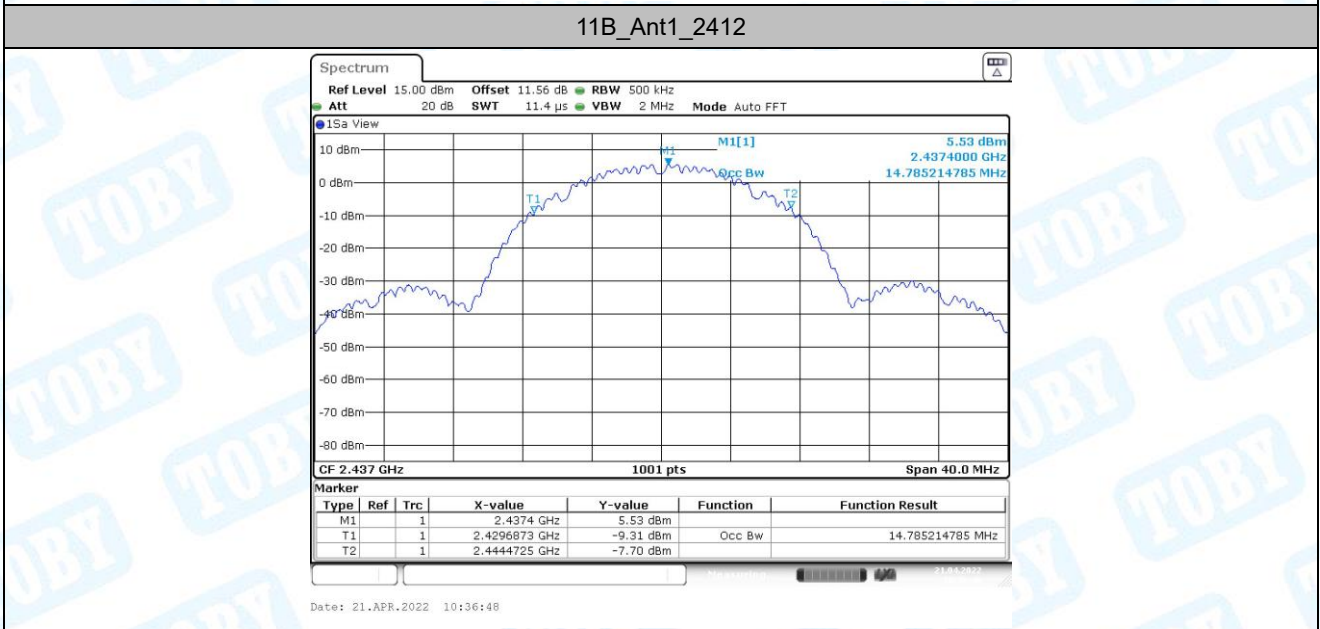
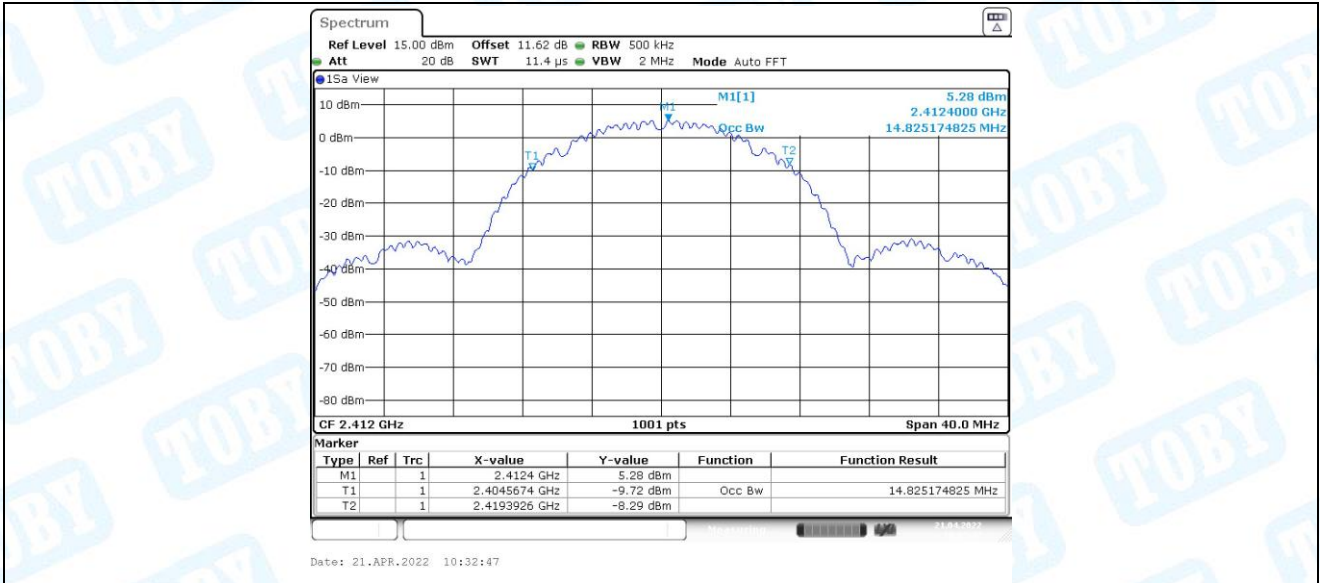
## 2. Occupied Channel Bandwidth

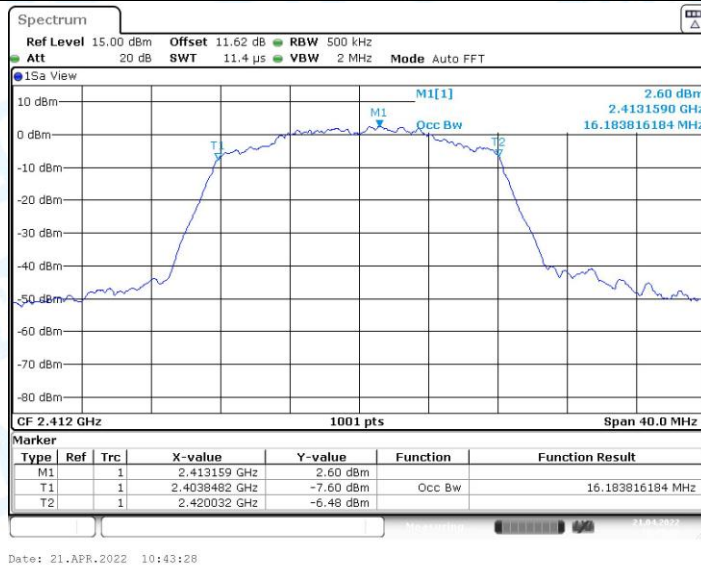
### 2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.825	2404.567	2419.393	---	---
		2437	14.785	2429.687	2444.473	---	---
		2462	14.825	2454.687	2469.512	---	---
11G	Ant1	2412	16.184	2403.848	2420.032	---	---
		2437	16.224	2428.888	2445.112	---	---
		2462	16.144	2453.928	2470.072	---	---
11N20SISO	Ant1	2412	16.863	2403.528	2420.392	---	---
		2437	16.823	2428.608	2445.432	---	---
		2462	16.983	2453.528	2470.511	---	---
11N40SISO	Ant1	2422	35.644	2404.178	2439.822	---	---
		2437	35.564	2419.338	2454.902	---	---
		2452	35.884	2434.018	2469.902	---	---

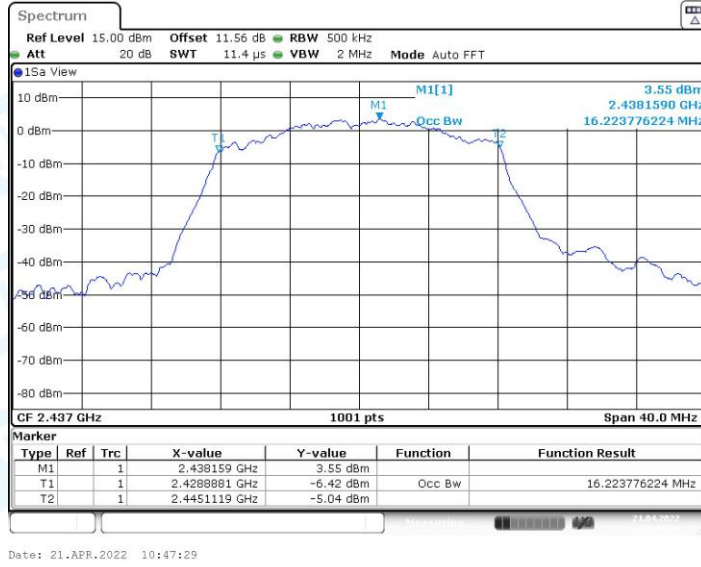


## 2.2. Test Graphs

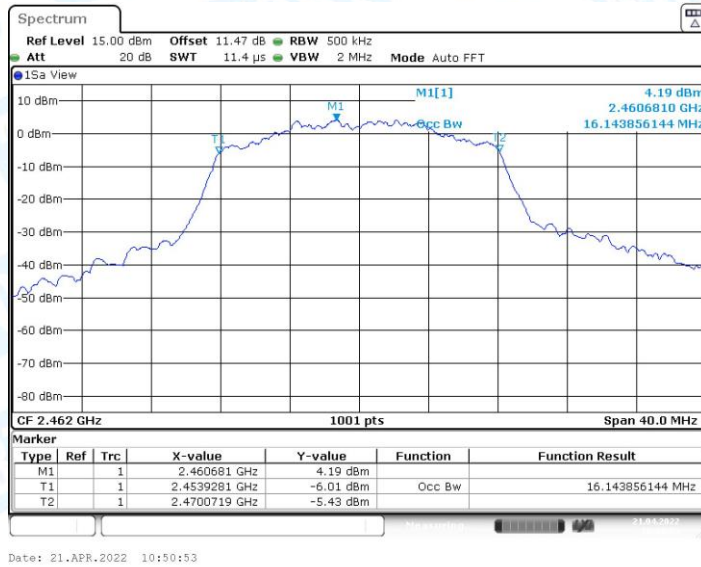




11G\_Ant1\_2412

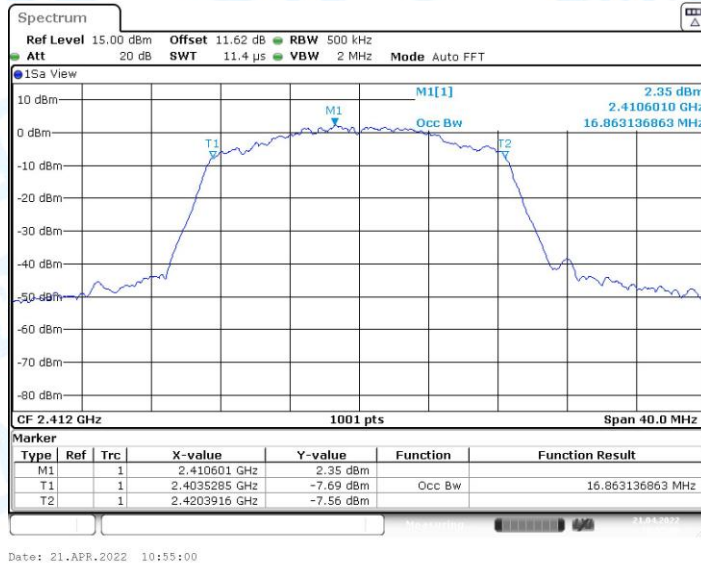


11G\_Ant1\_2437

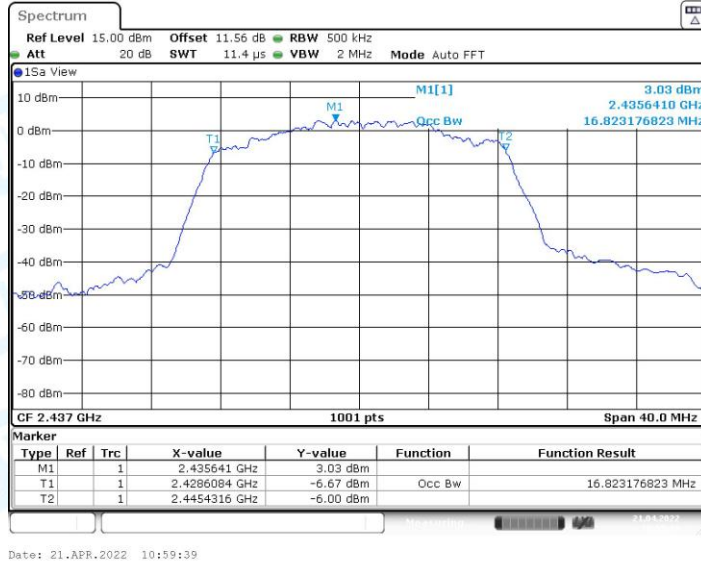


11G\_Ant1\_2462

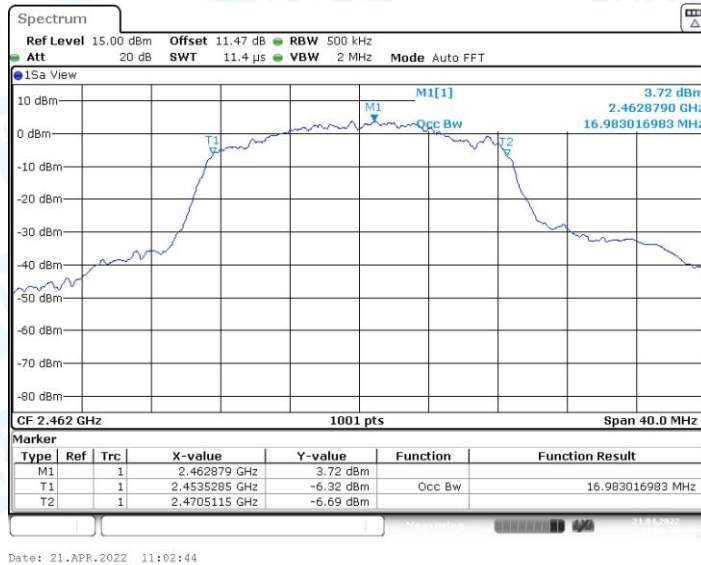




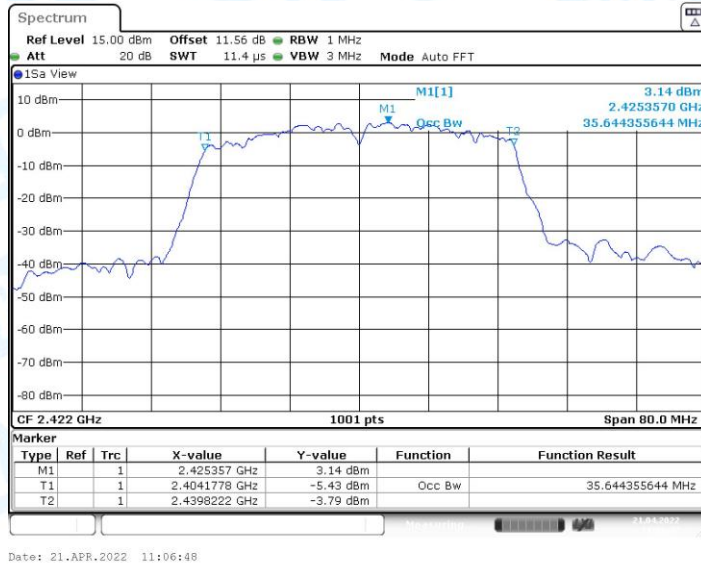
11N20SISO\_Ant1\_2412



11N20SISO\_Ant1\_2437



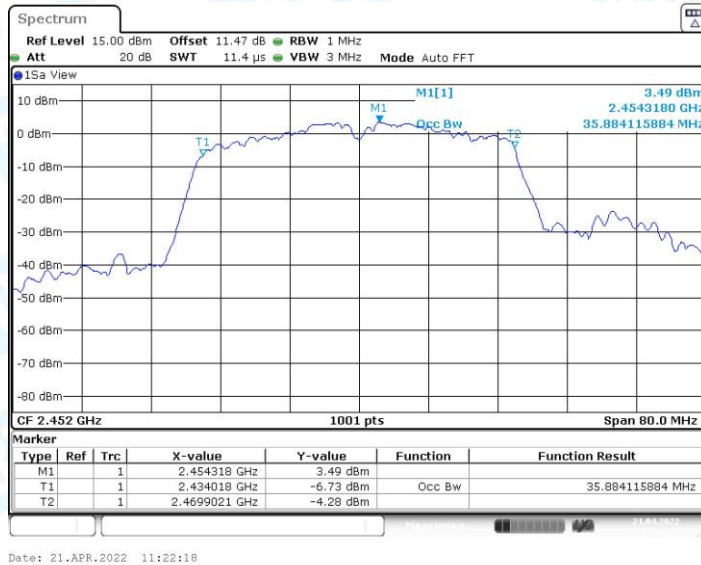
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11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

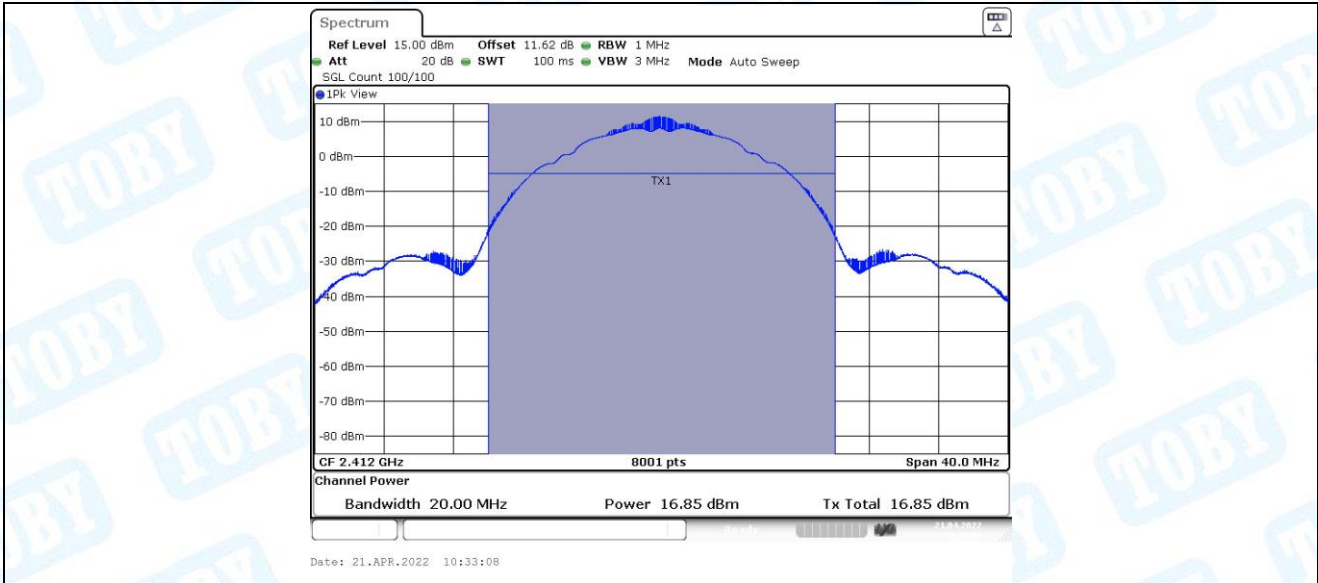


### 3. Maximum conducted output power

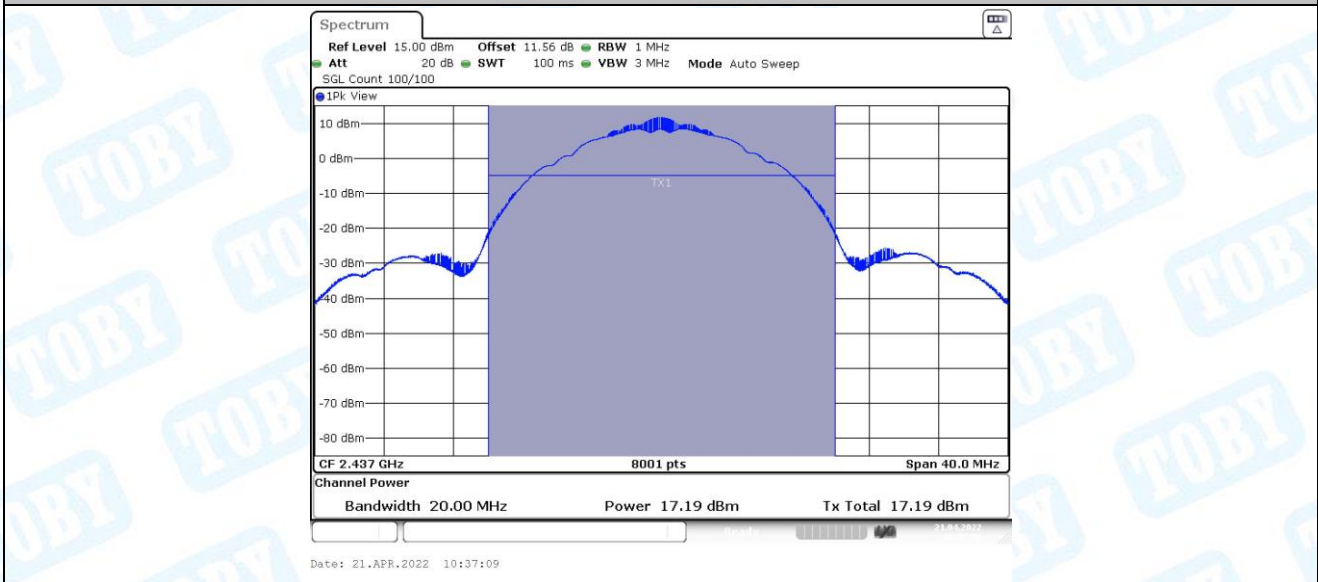
#### 3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.85	≤30.00	PASS
		2437	17.19	≤30.00	PASS
		2462	17.12	≤30.00	PASS
11G	Ant1	2412	16.04	≤30.00	PASS
		2437	16.94	≤30.00	PASS
		2462	17.53	≤30.00	PASS
11N20SISO	Ant1	2412	15.58	≤30.00	PASS
		2437	16.54	≤30.00	PASS
		2462	17.14	≤30.00	PASS
11N40SISO	Ant1	2422	16.66	≤30.00	PASS
		2437	17.14	≤30.00	PASS
		2452	16.80	≤30.00	PASS

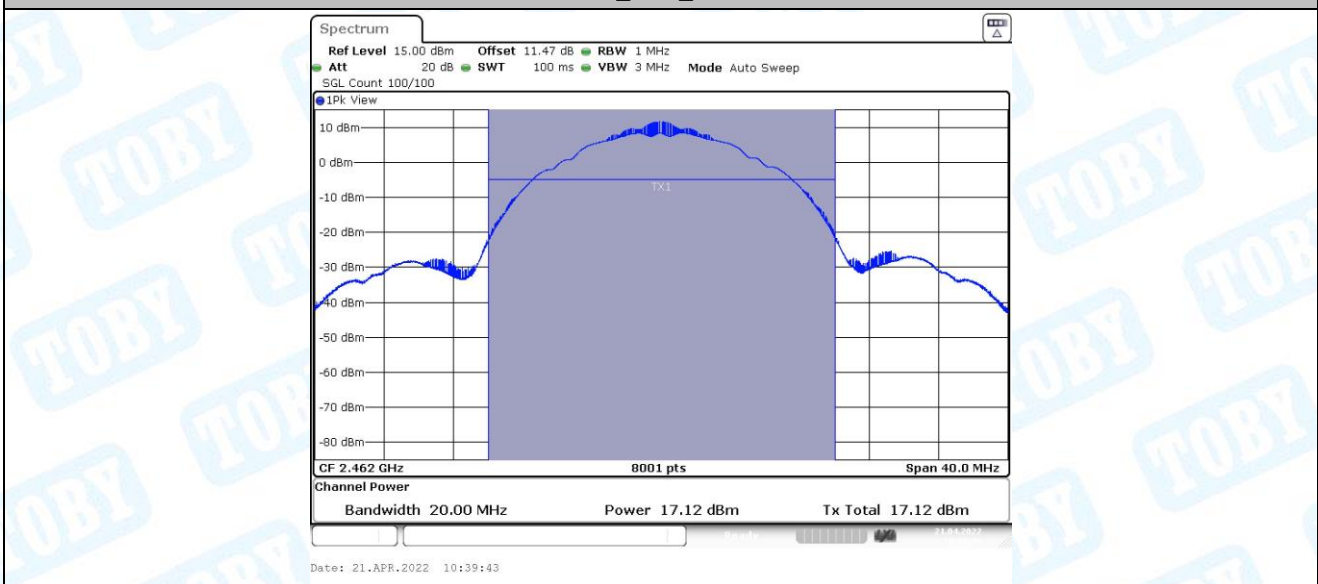
### 3.2. Test Graphs



11B\_Ant1\_2412

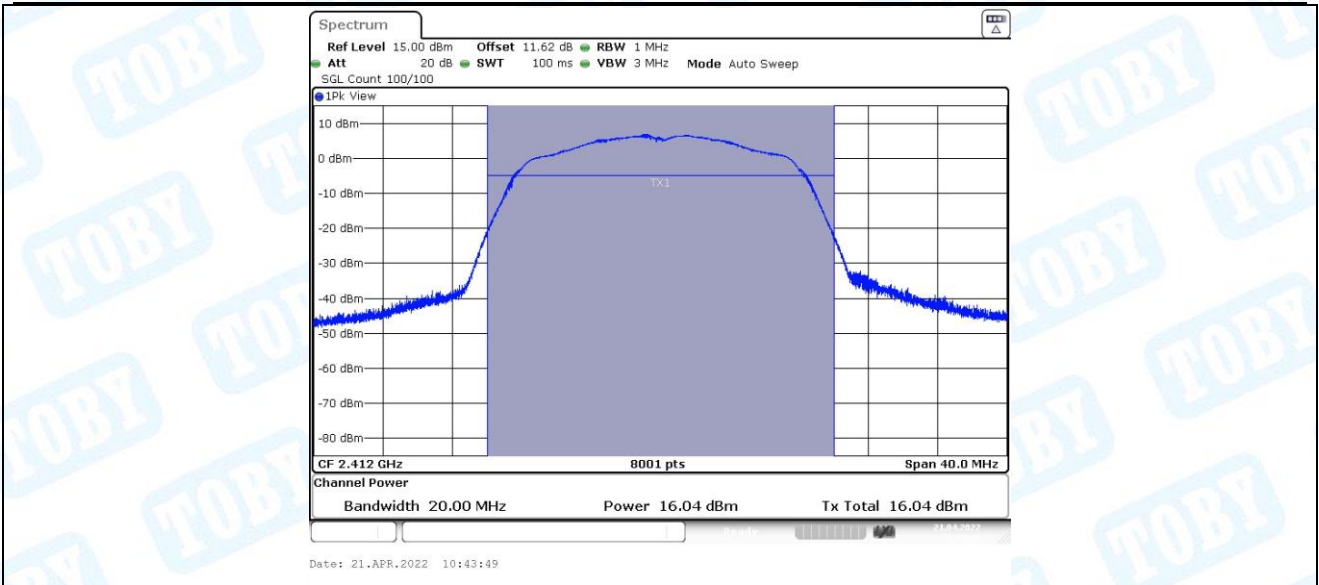


11B\_Ant1\_2437

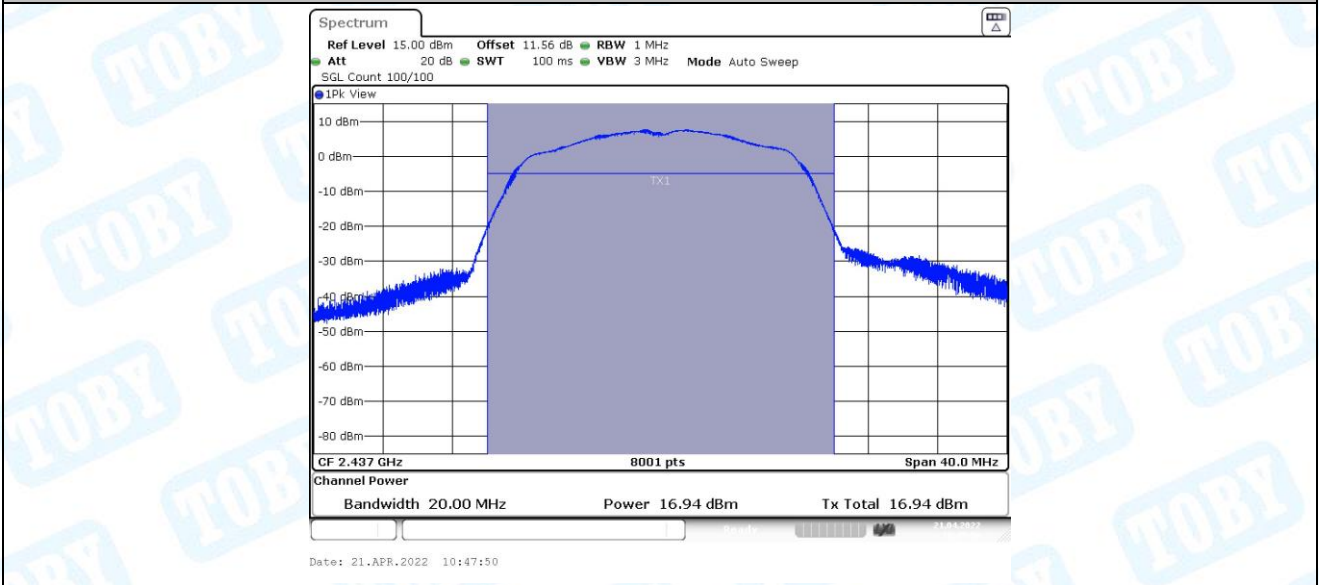


11B\_Ant1\_2462

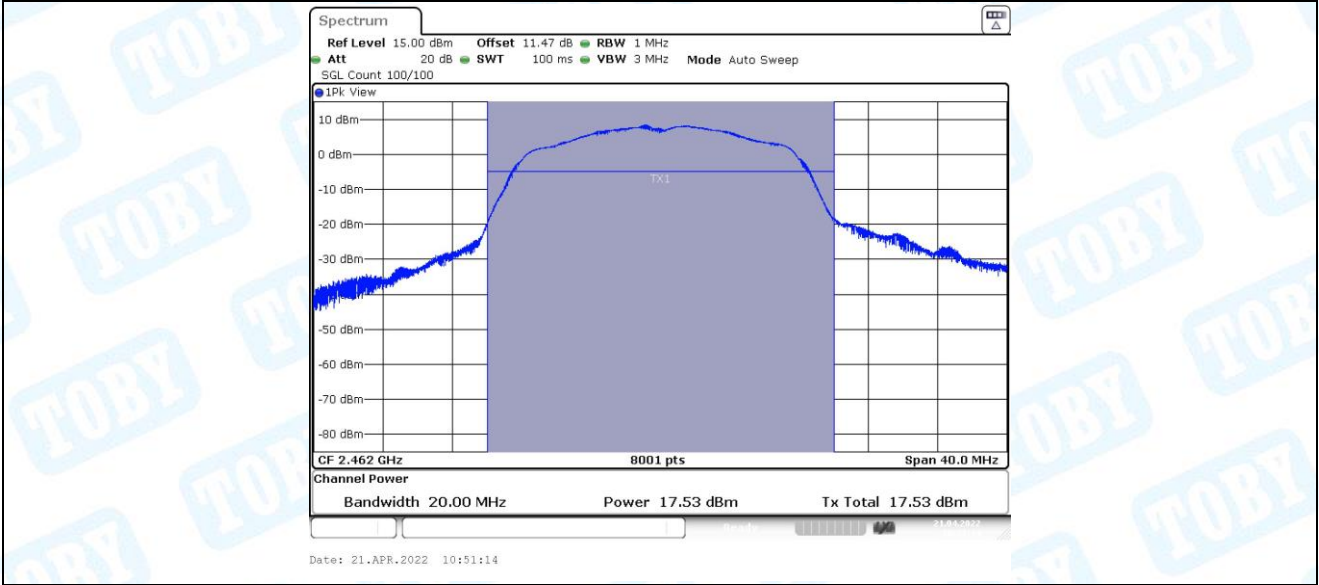




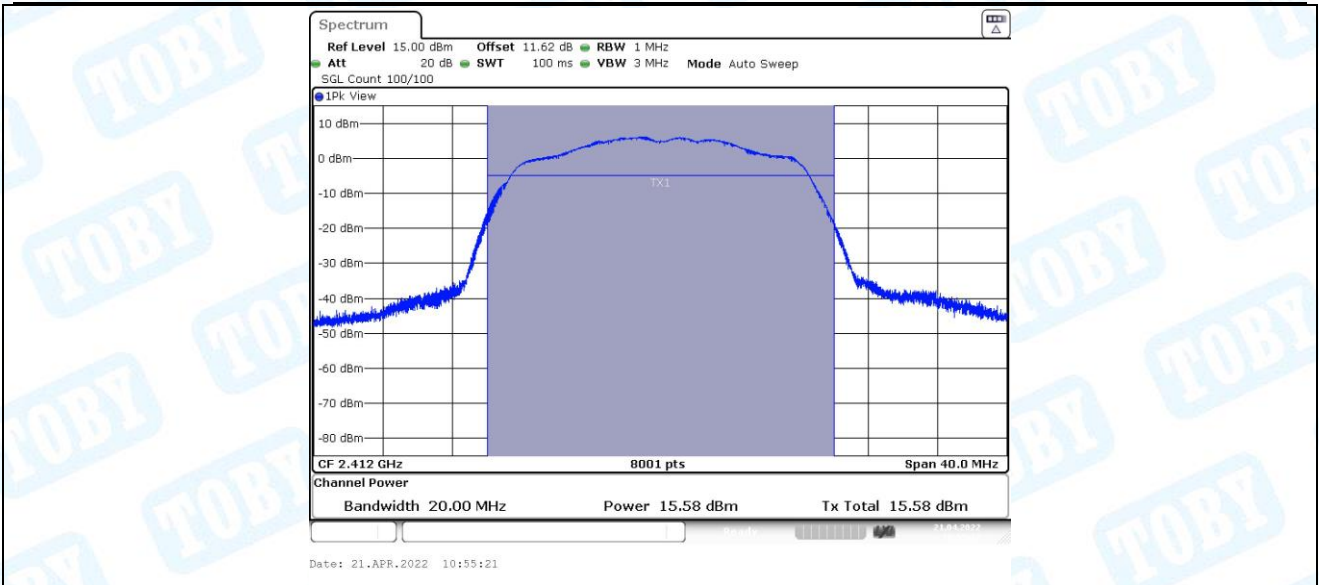
11G\_Ant1\_2412



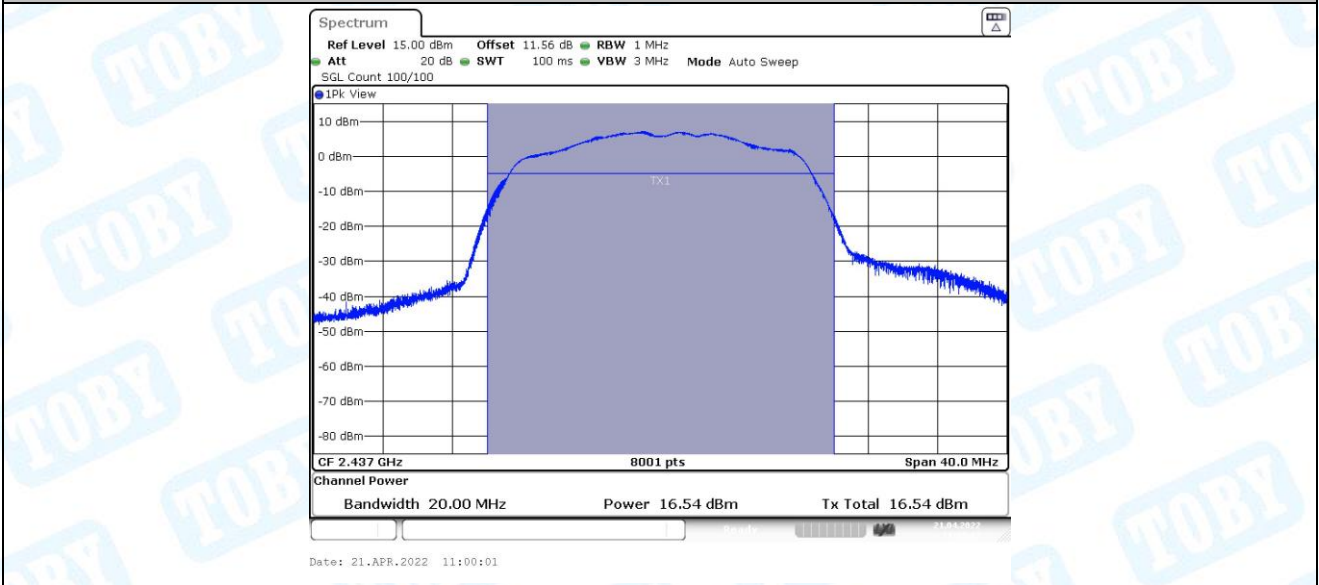
11G\_Ant1\_2437



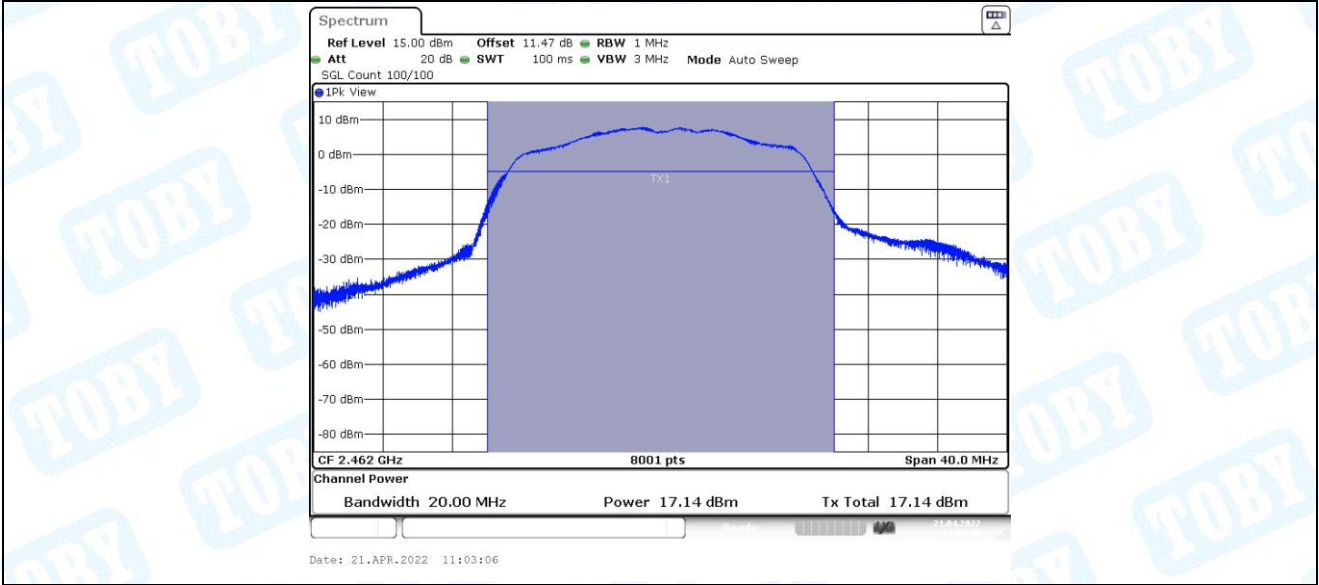
11G\_Ant1\_2462



11N20SISO\_Ant1\_2412

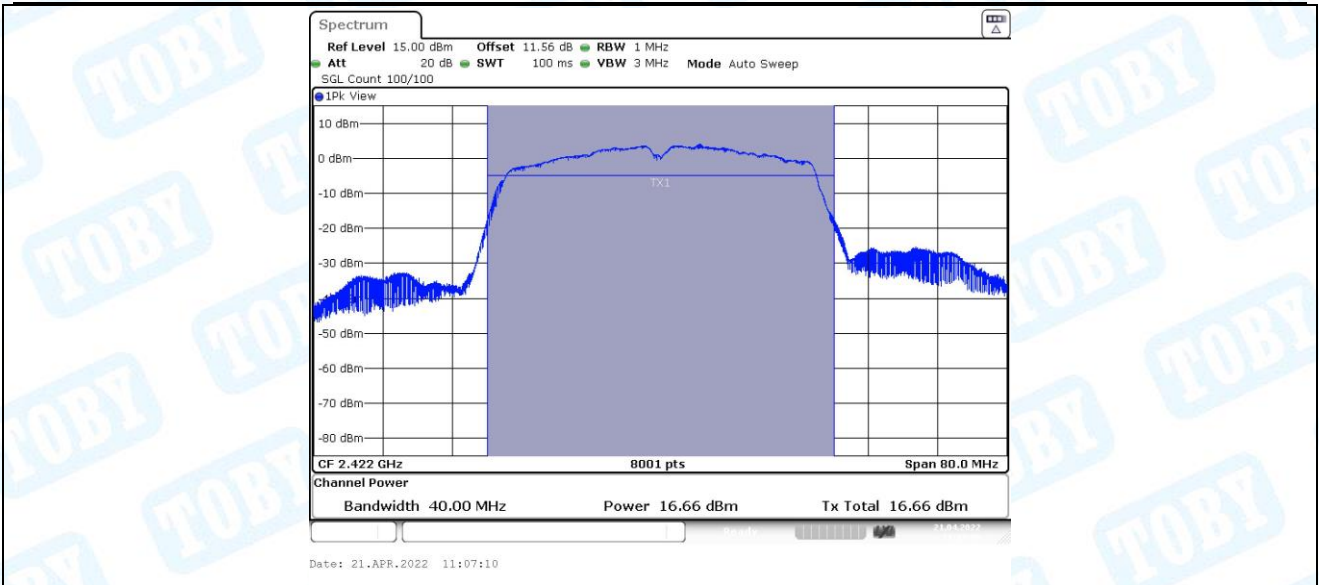


11N20SISO\_Ant1\_2437

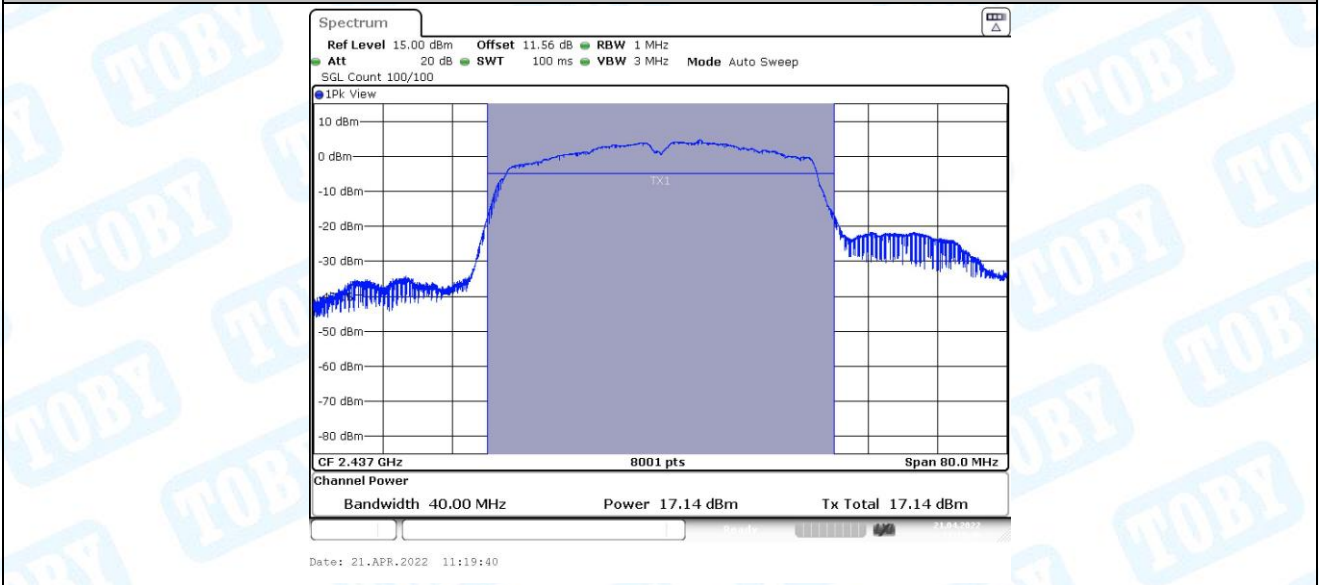


11N20SISO\_Ant1\_2462

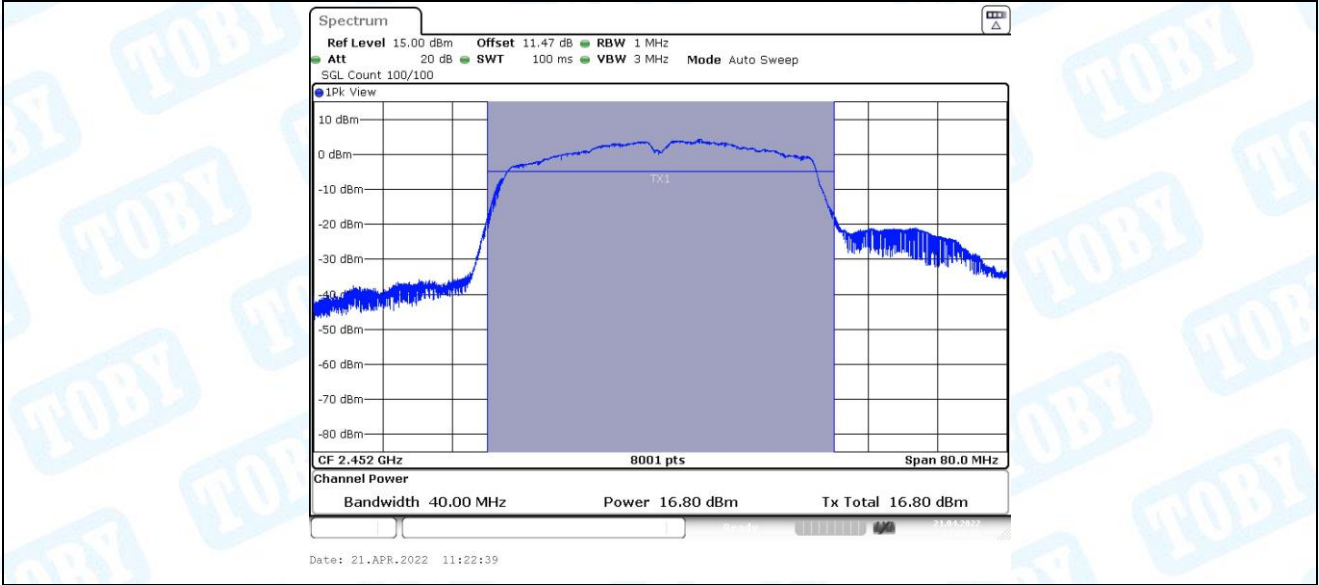




11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452

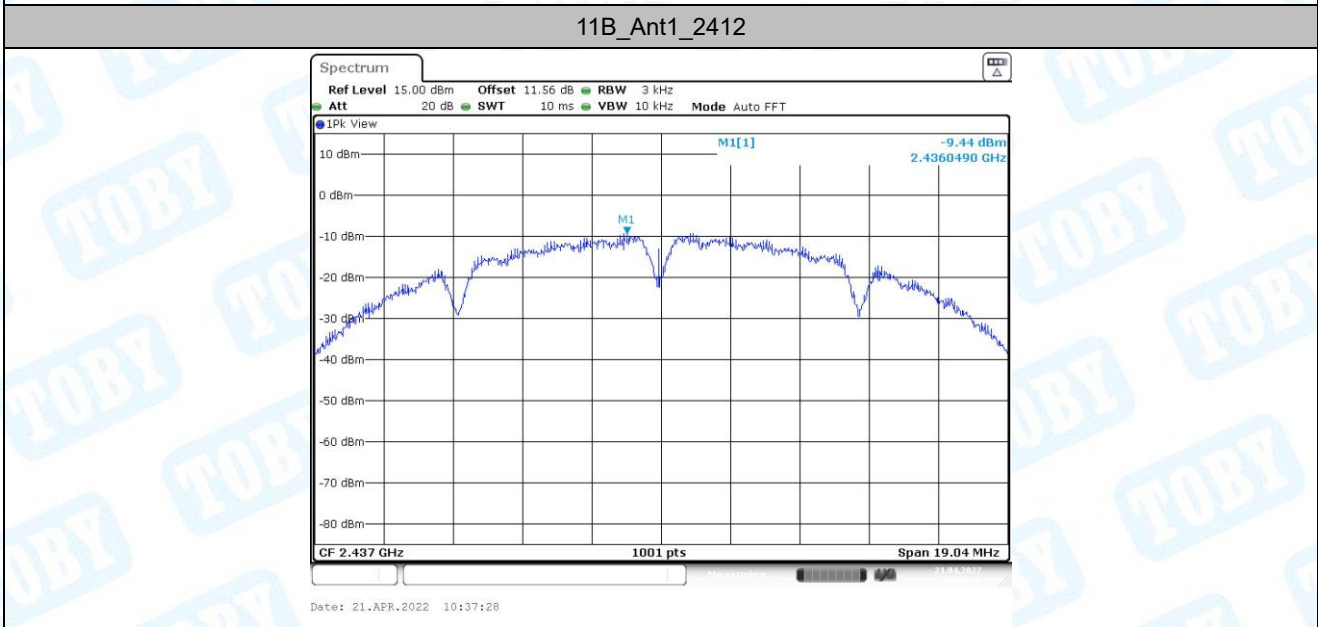
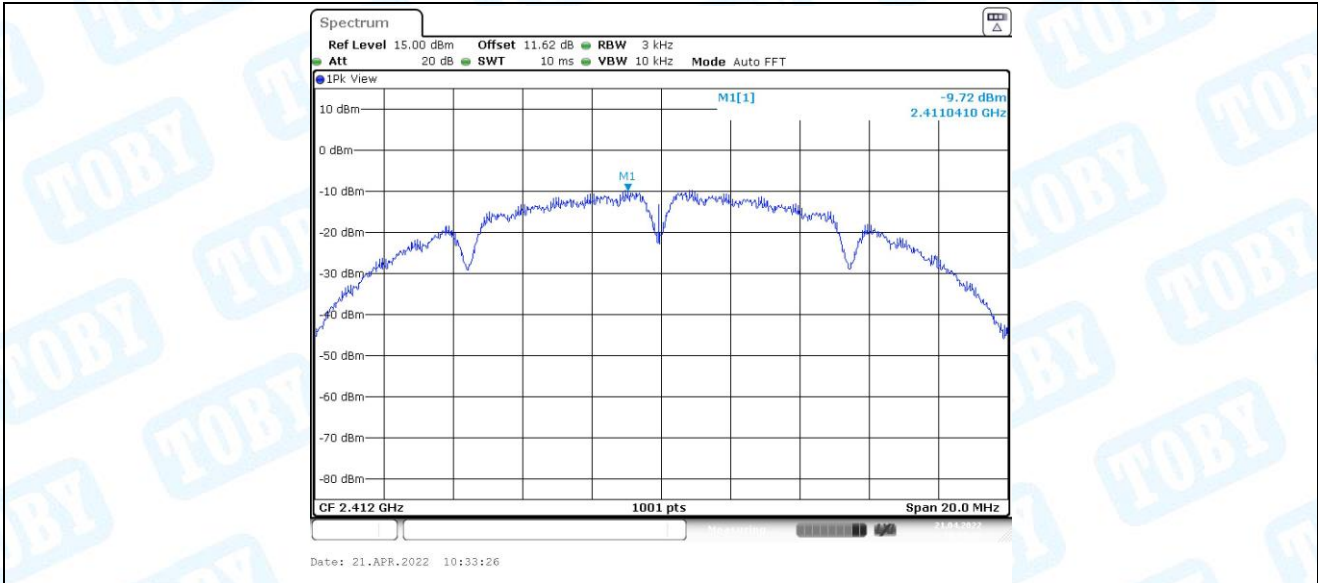
## 4. Maximum power spectral density

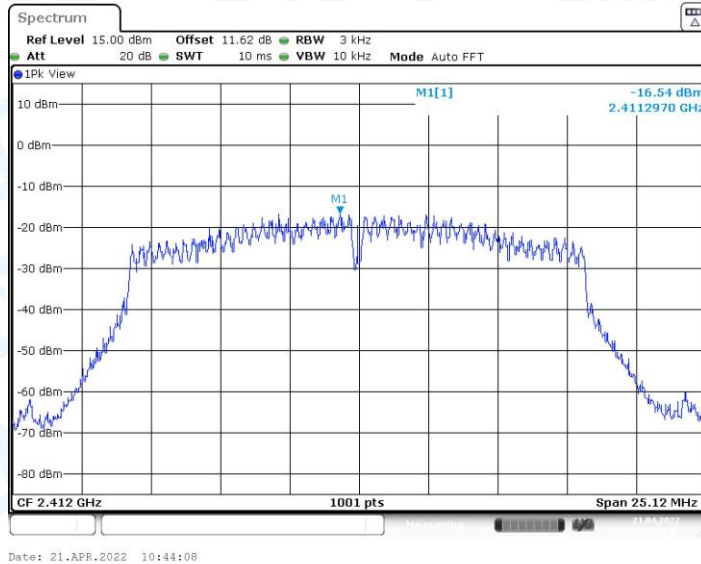
### 4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.72	≤8.00	PASS
		2437	-9.44	≤8.00	PASS
		2462	-9.45	≤8.00	PASS
11G	Ant1	2412	-16.54	≤8.00	PASS
		2437	-15.7	≤8.00	PASS
		2462	-15.03	≤8.00	PASS
11N20SISO	Ant1	2412	-16.25	≤8.00	PASS
		2437	-15.22	≤8.00	PASS
		2462	-14.61	≤8.00	PASS
11N40SISO	Ant1	2422	-17.98	≤8.00	PASS
		2437	-16.7	≤8.00	PASS
		2452	-16.21	≤8.00	PASS

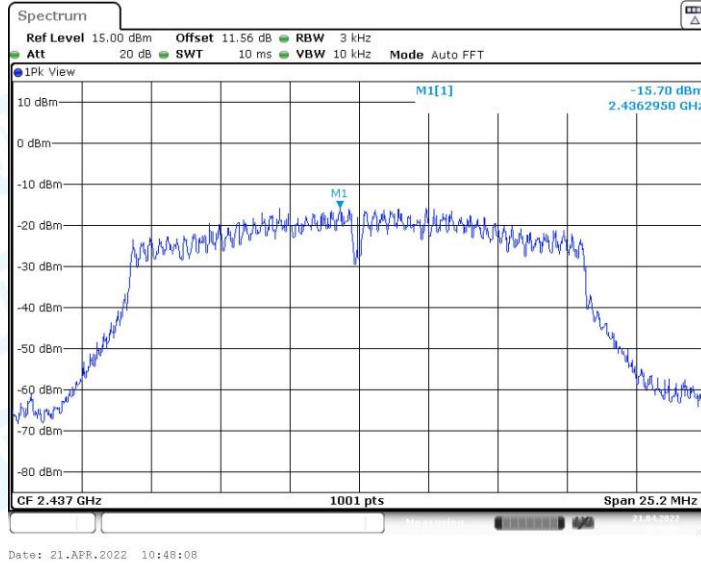


## 4.2. Test Graphs

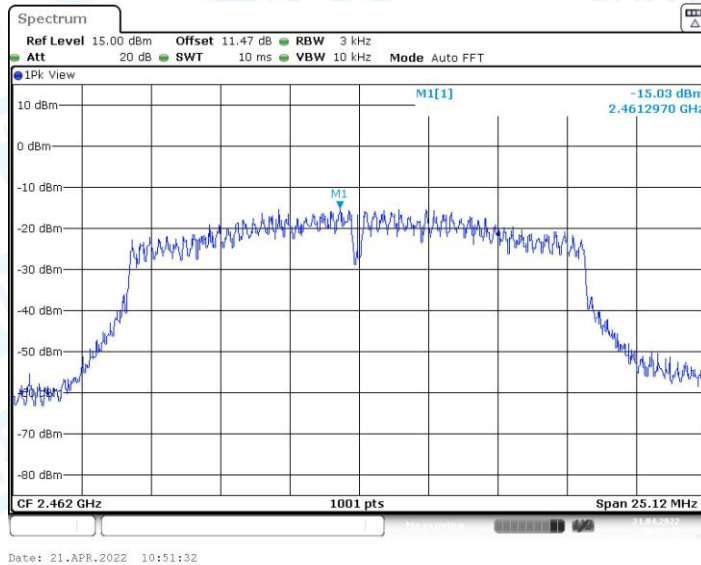




11G\_Ant1\_2412

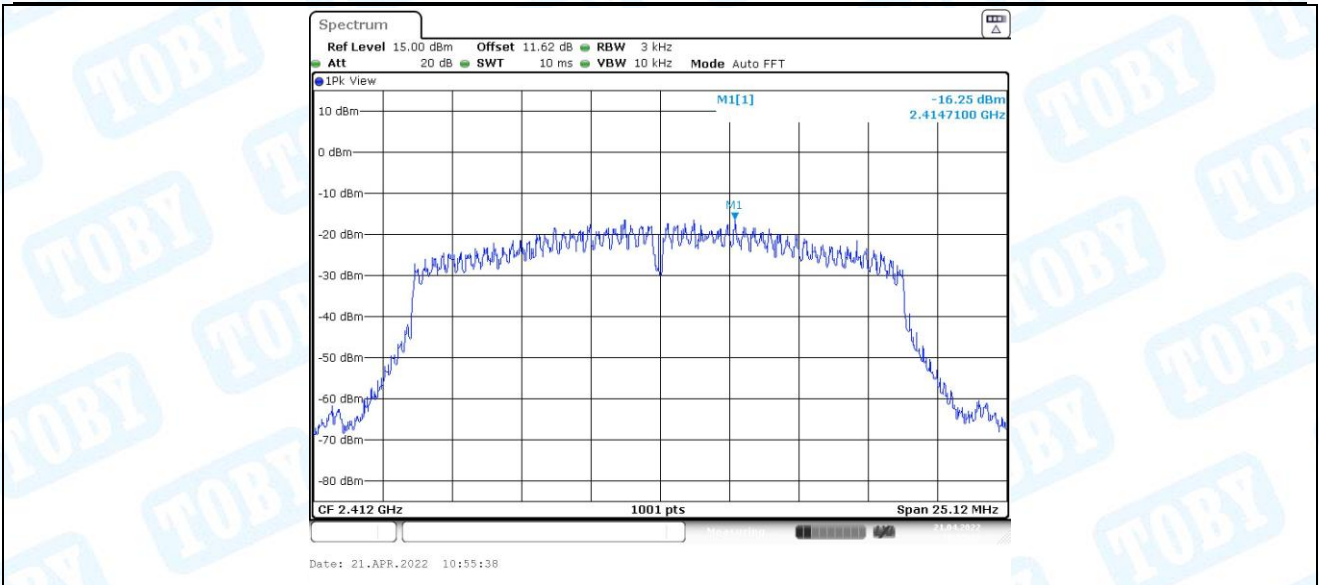


11G\_Ant1\_2437

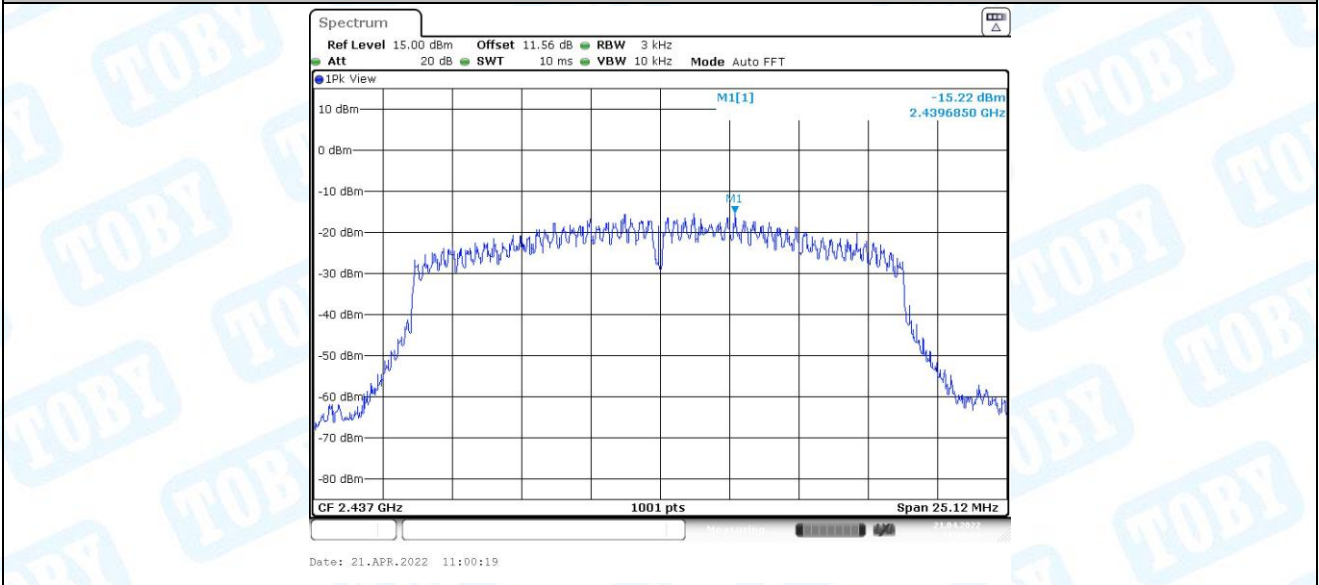


11G\_Ant1\_2462

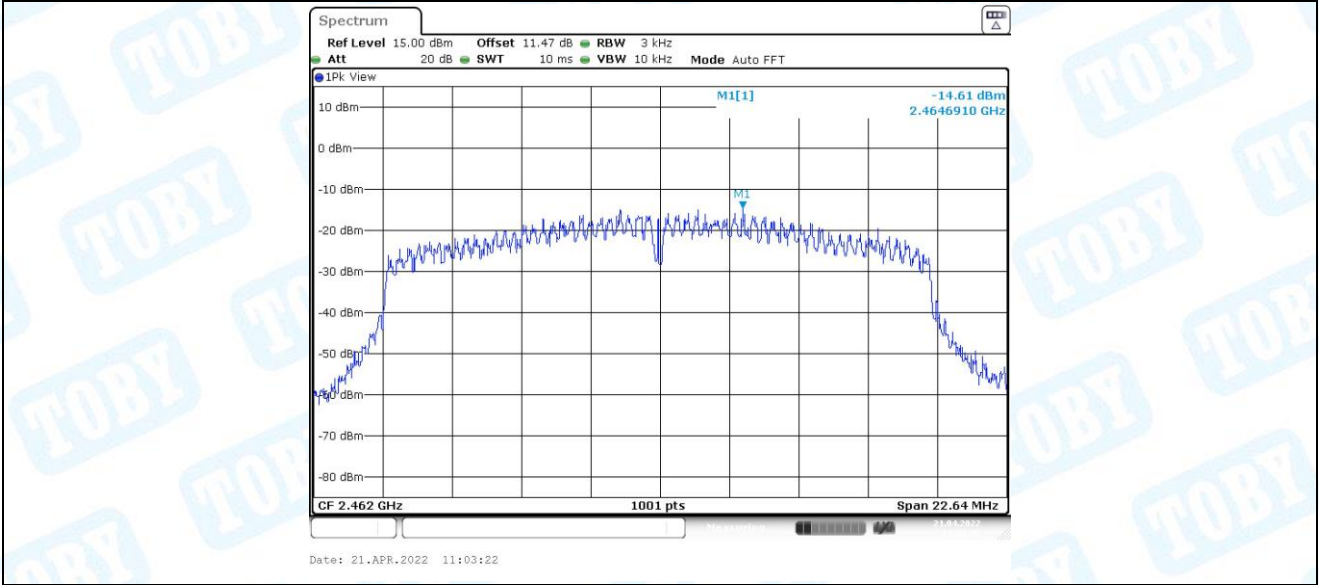




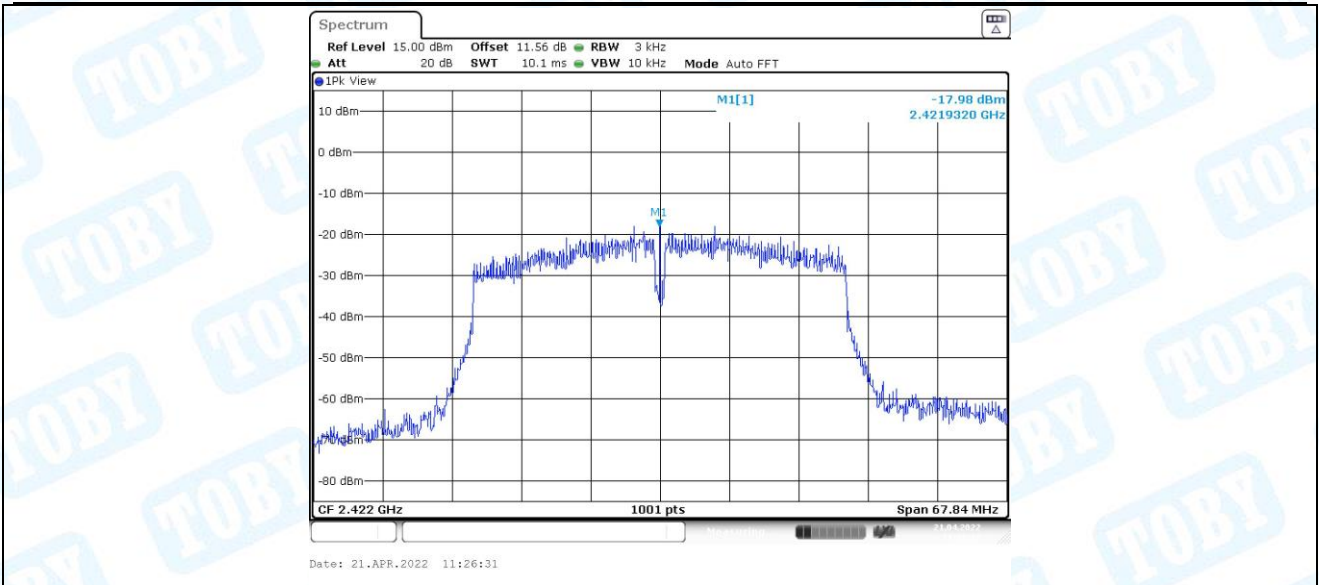
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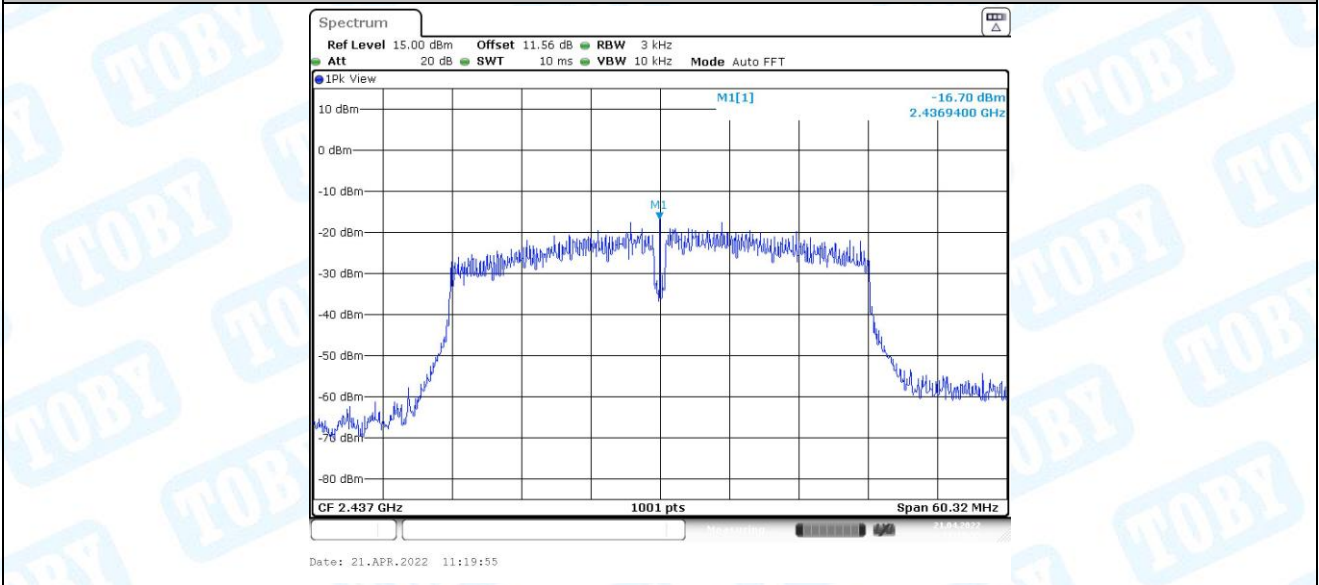
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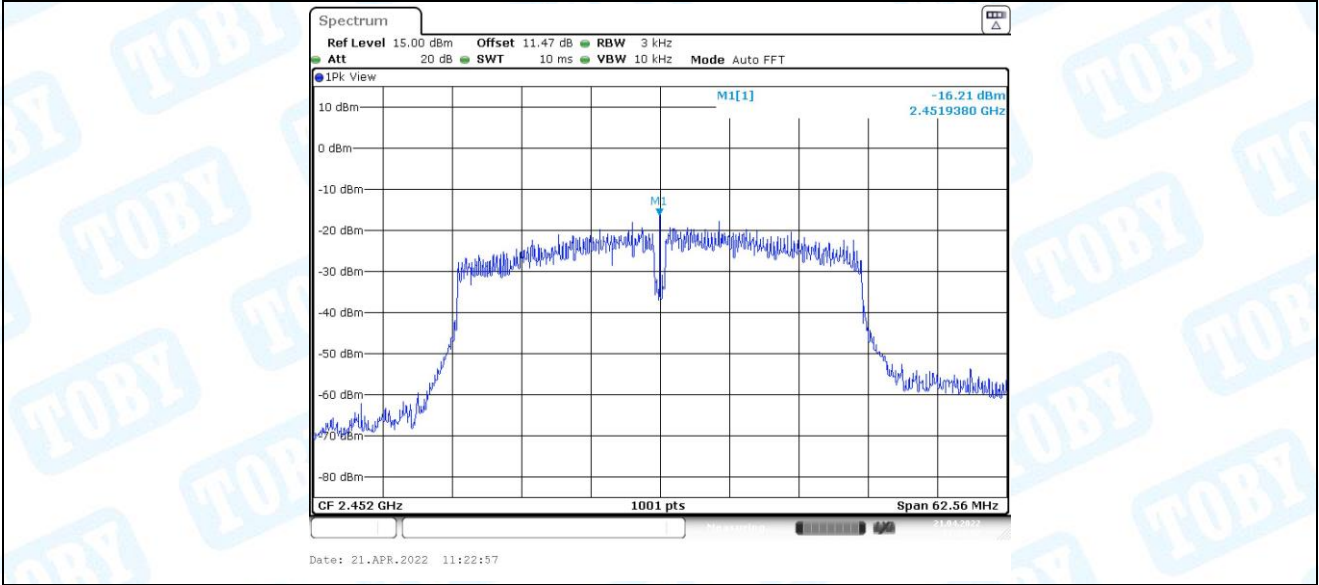
11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452