

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

General Description of EUT	
<b>Product Name:</b>	Wireless Camera
<b>Test Model:</b>	CA794
<b>Sample ID:</b>	20211014-10-2#
Environmental Conditions	
<b>Temperature:</b>	23.8°C
<b>Relative Humidity:</b>	48%
<b>Test Voltage:</b>	Adapter(CS6D090060FUF) Input: AC 100-240V~50/60Hz 200mA Output: 9V, 0.6A 5.4W
<b>Test Engineer:</b>	Huang jian ping
Note: For a more detailed features description, please refer to the report TB-FCC184786	

## Contents

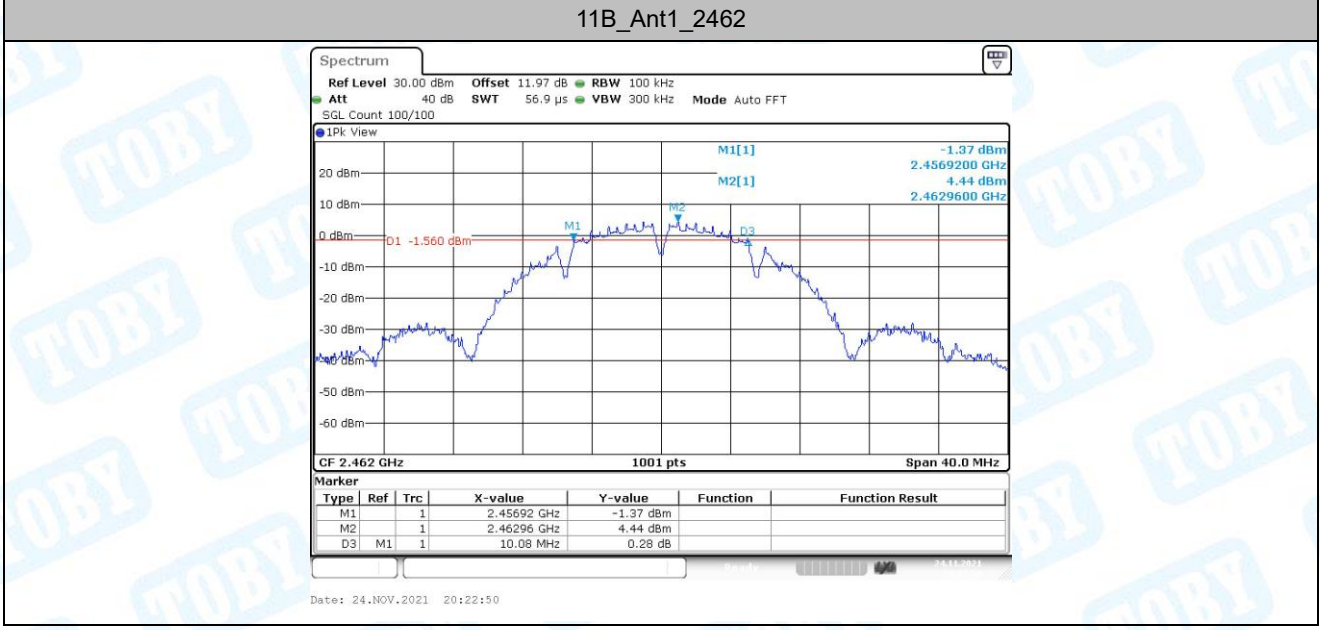
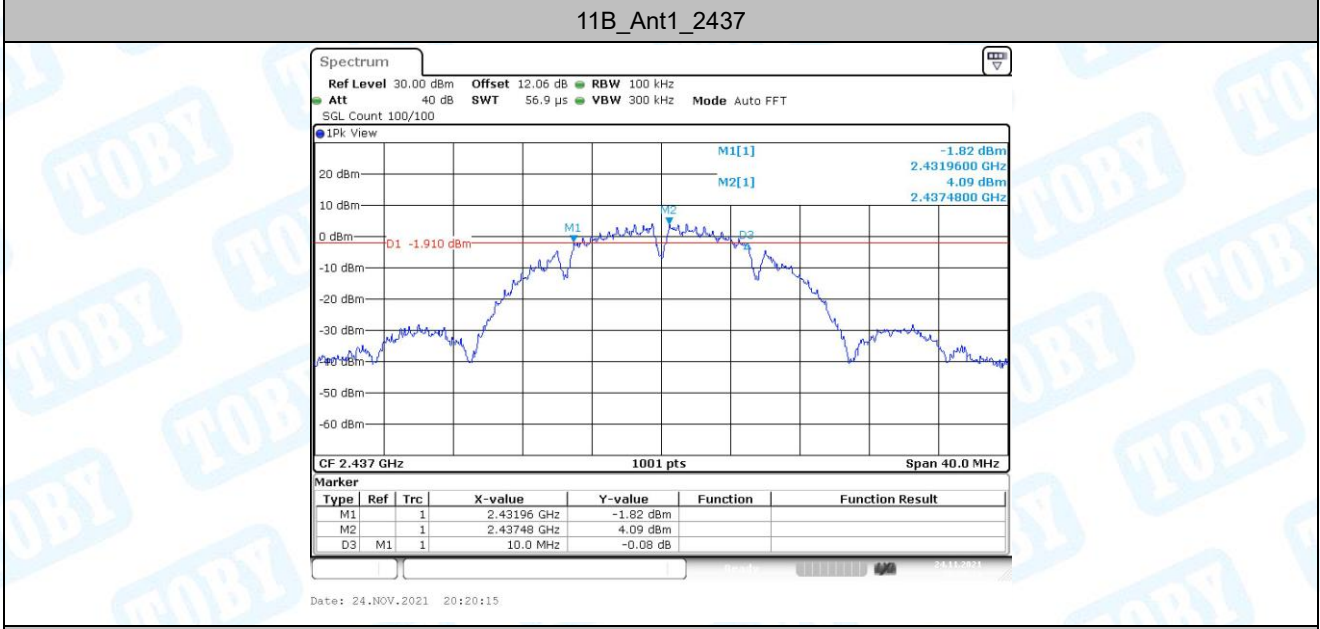
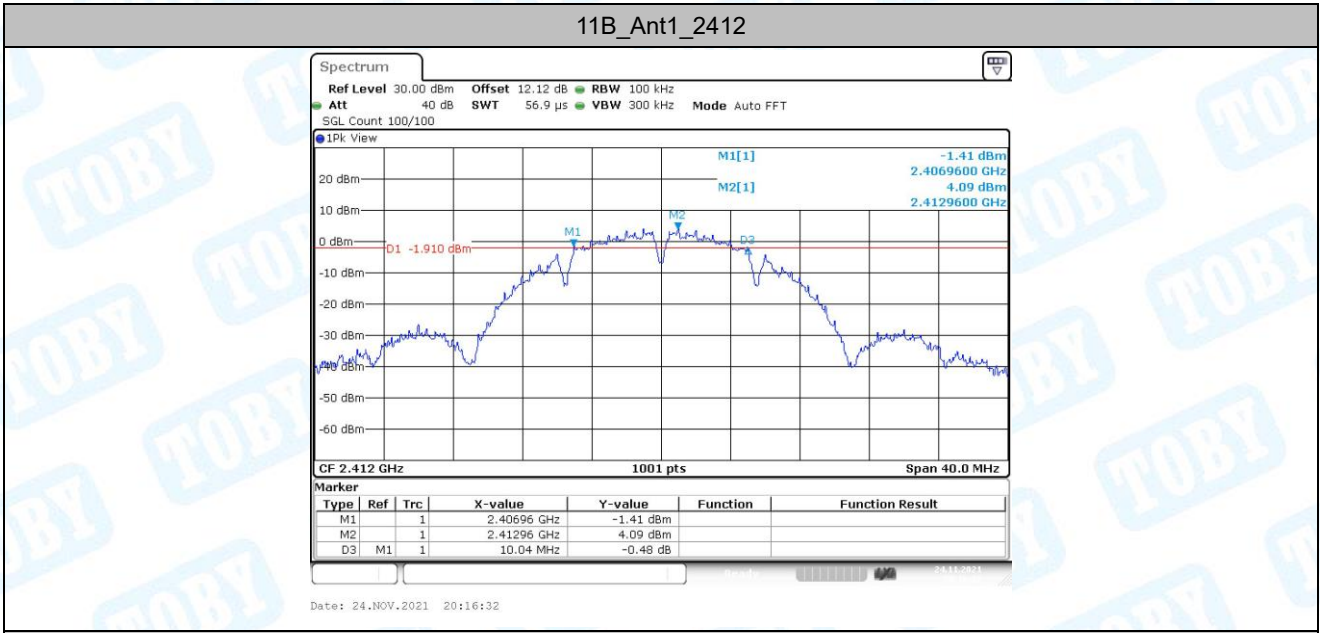
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# 1. DTS Bandwidth

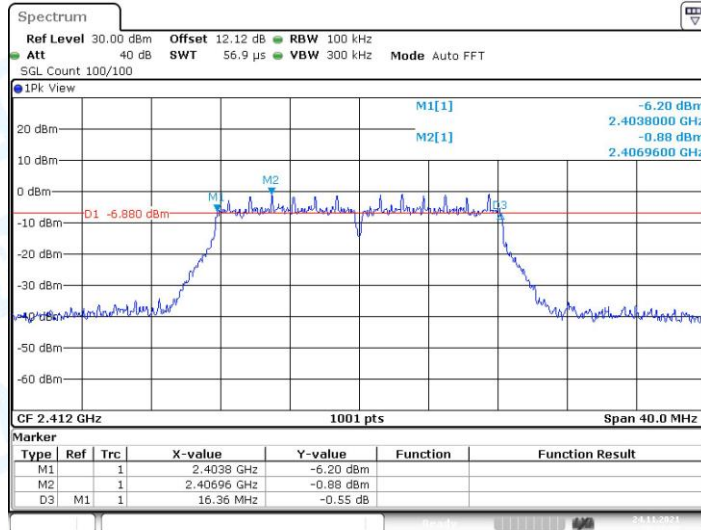
## 1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.04	2406.96	2417.00	0.5	PASS
		2437	10.00	2431.96	2441.96	0.5	PASS
		2462	10.08	2456.92	2467.00	0.5	PASS
11G	Ant1	2412	16.36	2403.80	2420.16	0.5	PASS
		2437	16.36	2428.80	2445.16	0.5	PASS
		2462	16.52	2453.72	2470.24	0.5	PASS

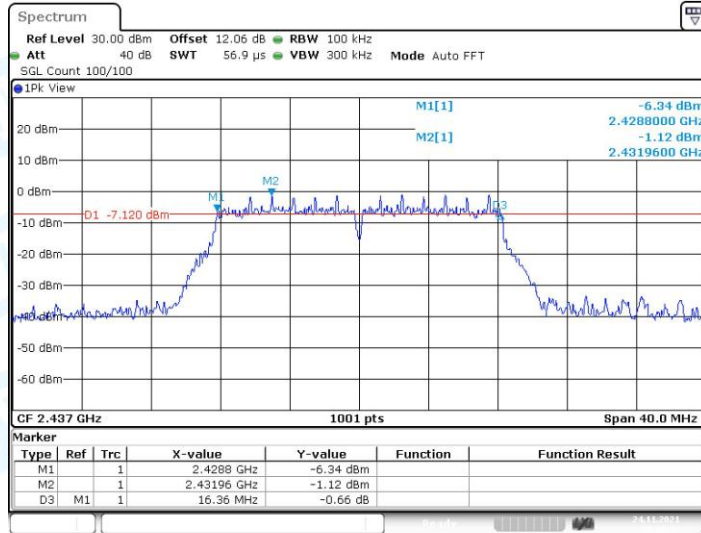
**1.2. Test Graphs**



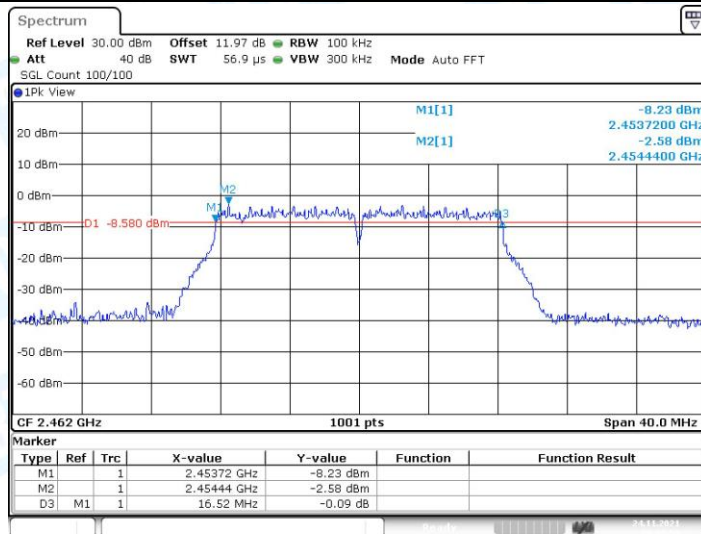
### 11G\_Ant1\_2412



### 11G\_Ant1\_2437



### 11G\_Ant1\_2462

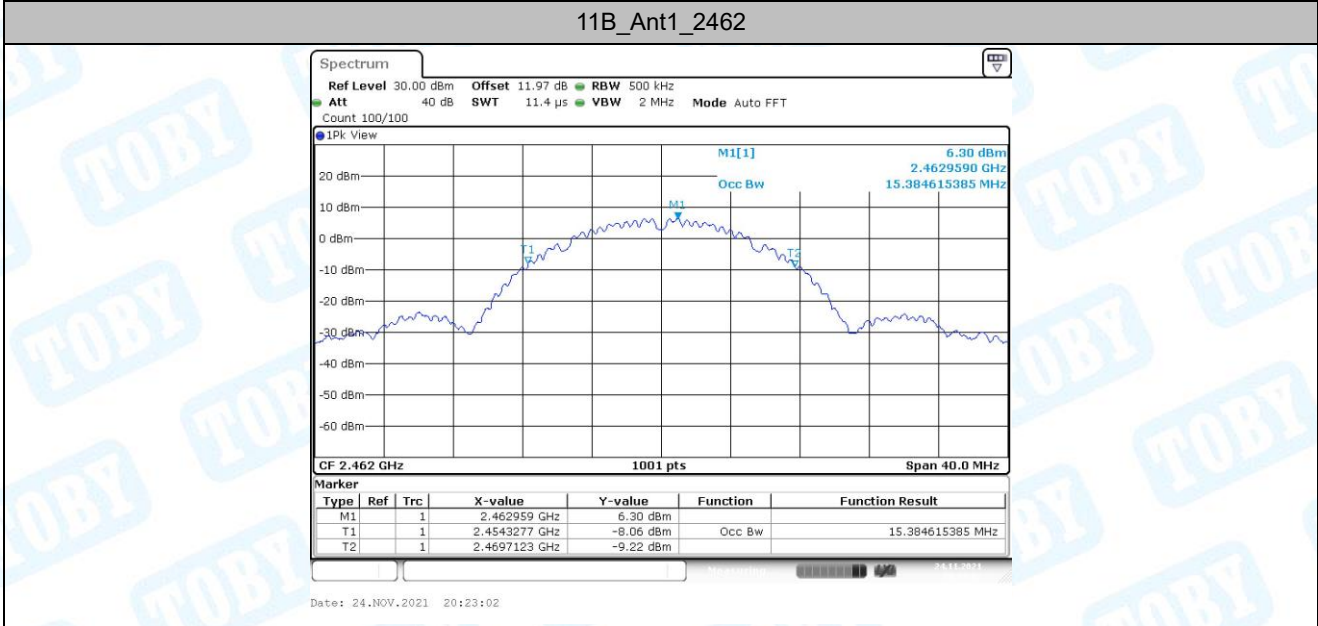
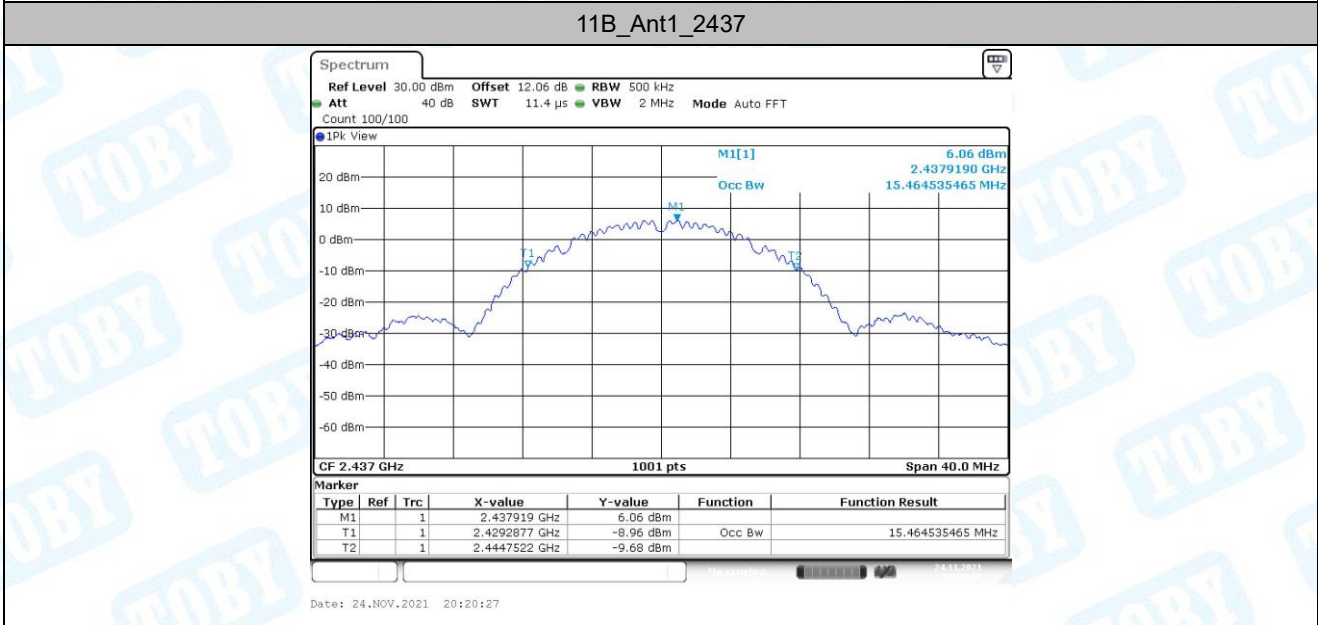
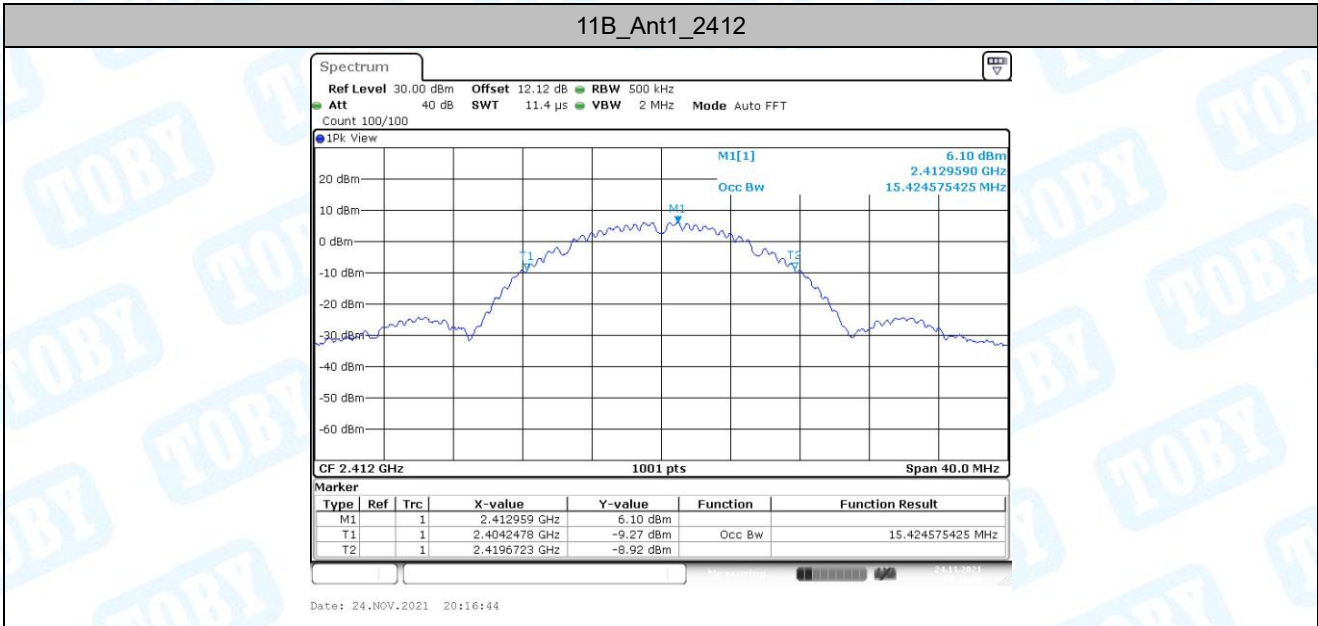


## 2. Occupied Channel Bandwidth

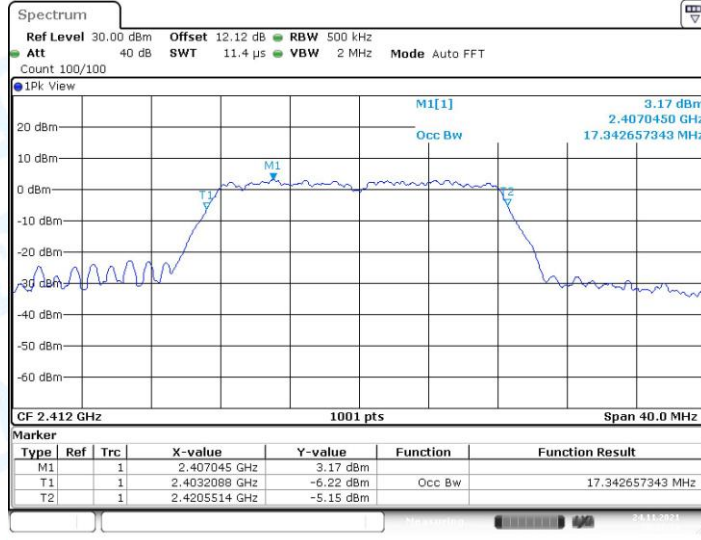
### 2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.425	2404.248	2419.672	---	PASS
		2437	15.465	2429.288	2444.752	---	PASS
		2462	15.385	2454.328	2469.712	---	PASS
11G	Ant1	2412	17.343	2403.209	2420.551	---	PASS
		2437	17.502	2428.329	2445.831	---	PASS
		2462	17.423	2453.209	2470.631	---	PASS

**2.2. Test Graphs**

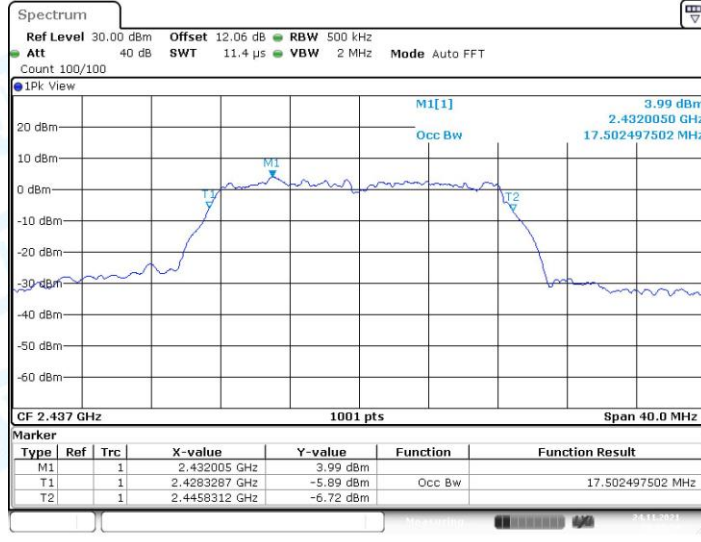


11G\_Ant1\_2412



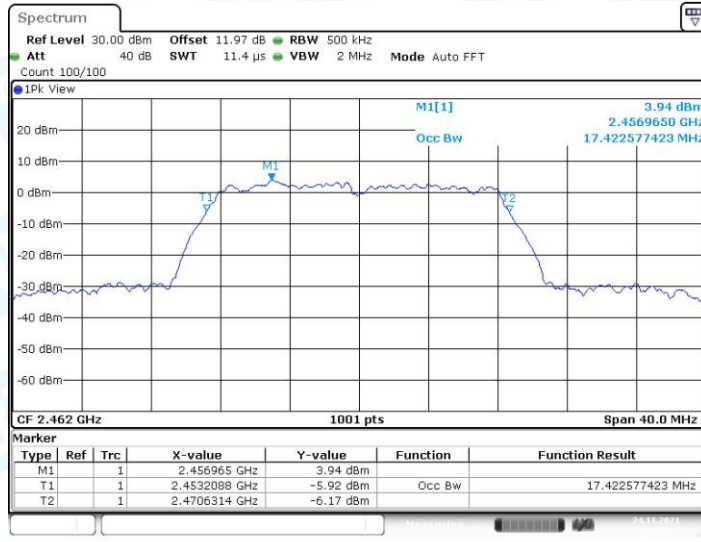
Date: 24.NOV.2021 20:27:18

11G\_Ant1\_2437



Date: 24.NOV.2021 20:30:53

11G\_Ant1\_2462



Date: 24.NOV.2021 20:33:11



### 3. Maximum conducted output power

#### 3.1. Test Result

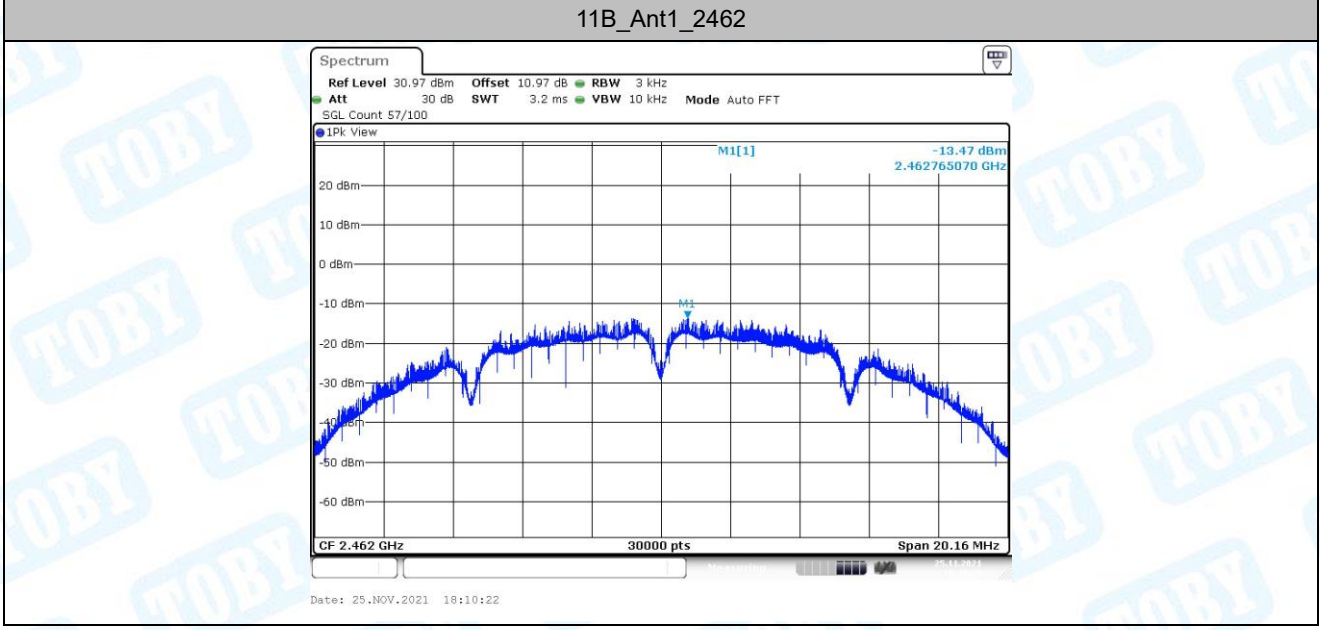
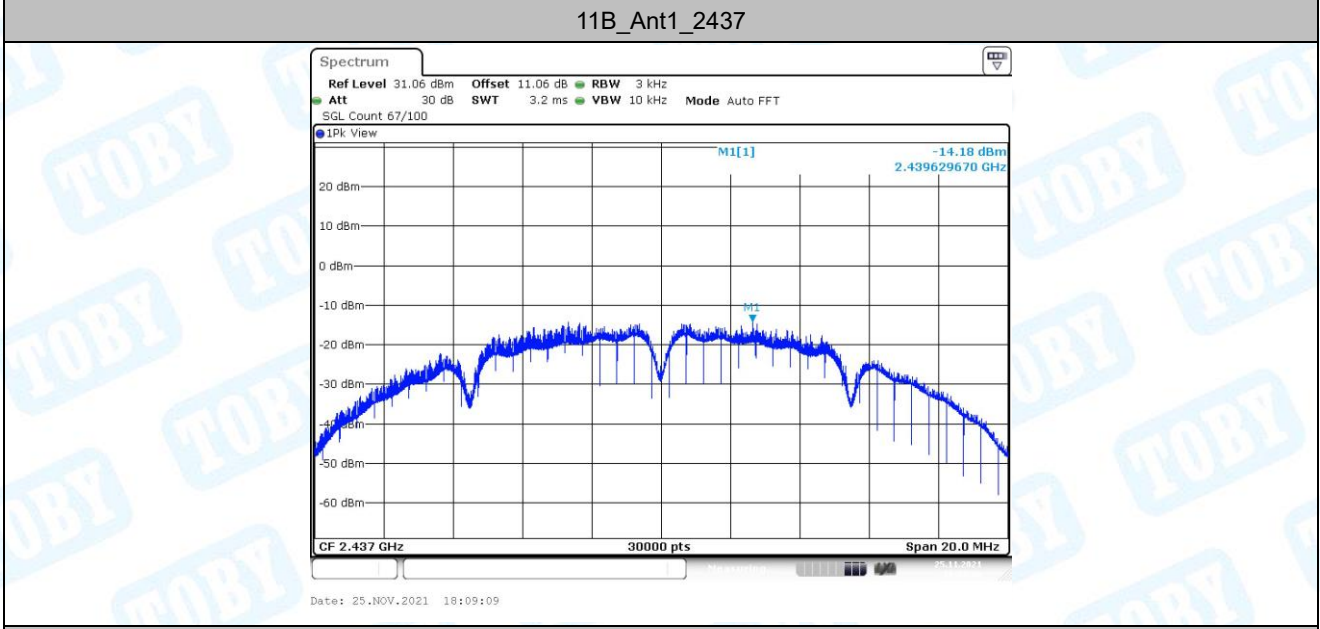
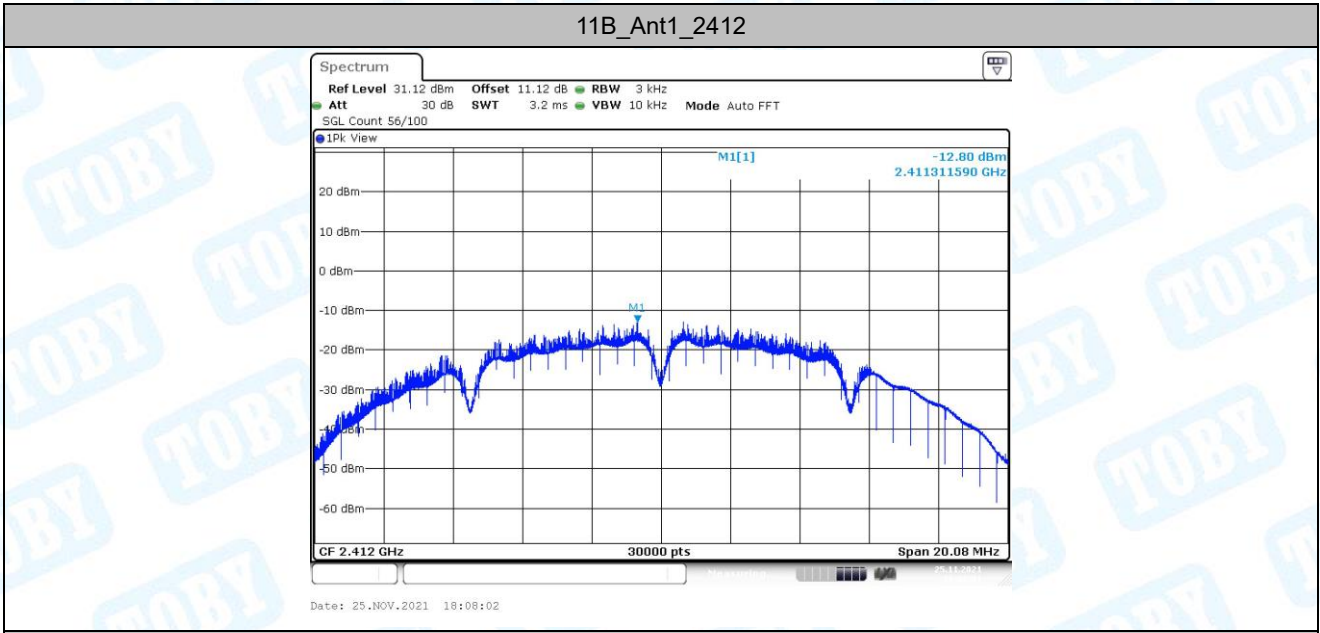
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	16.70	≤30	PASS
		2437	16.68	≤30	PASS
		2462	16.93	≤30	PASS
11G	Ant1	2412	16.86	≤30	PASS
		2437	16.74	≤30	PASS
		2462	16.87	≤30	PASS

## 4. Maximum power spectral density

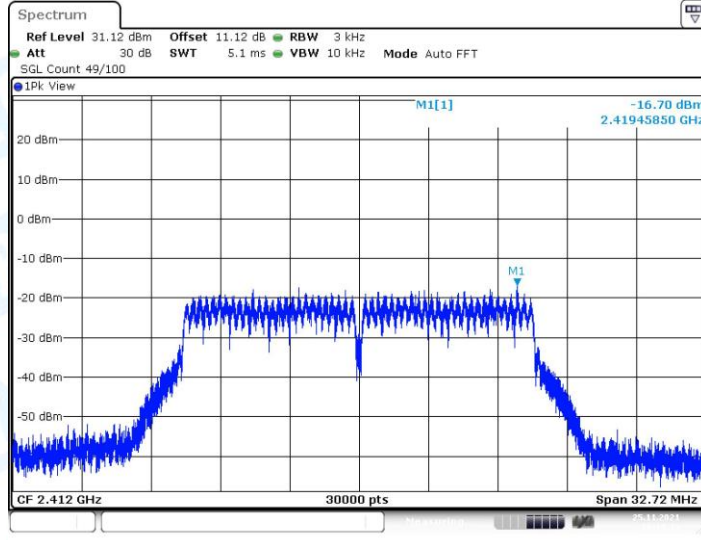
### 4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-12.8	≤8	PASS
		2437	-14.18	≤8	PASS
		2462	-13.47	≤8	PASS
11G	Ant1	2412	-16.7	≤8	PASS
		2437	-17.48	≤8	PASS
		2462	-17.34	≤8	PASS

### 4.2. Test Graphs

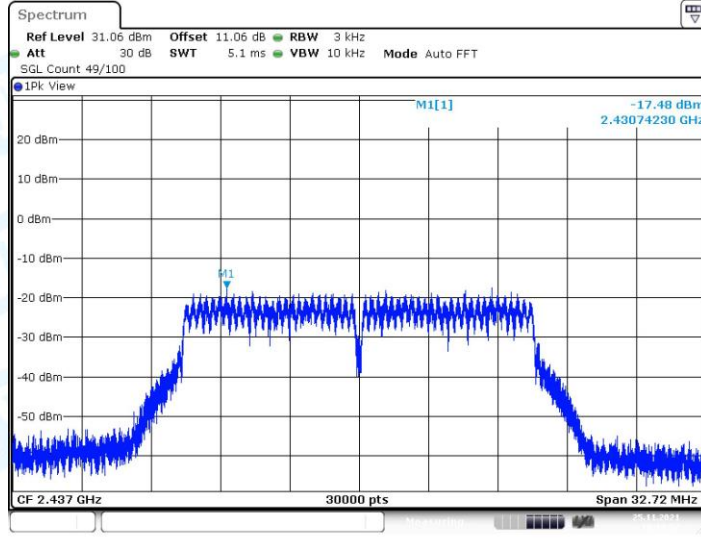


11G\_Ant1\_2412



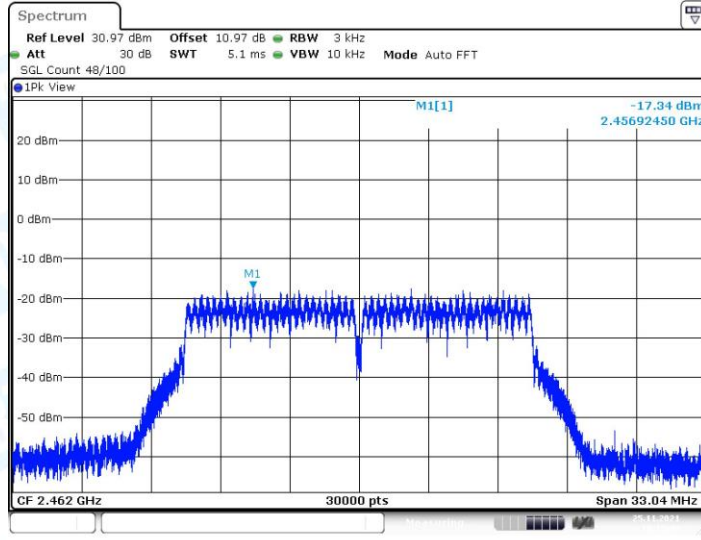
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11G\_Ant1\_2437



Date: 25.NOV.2021 18:14:56

11G\_Ant1\_2462



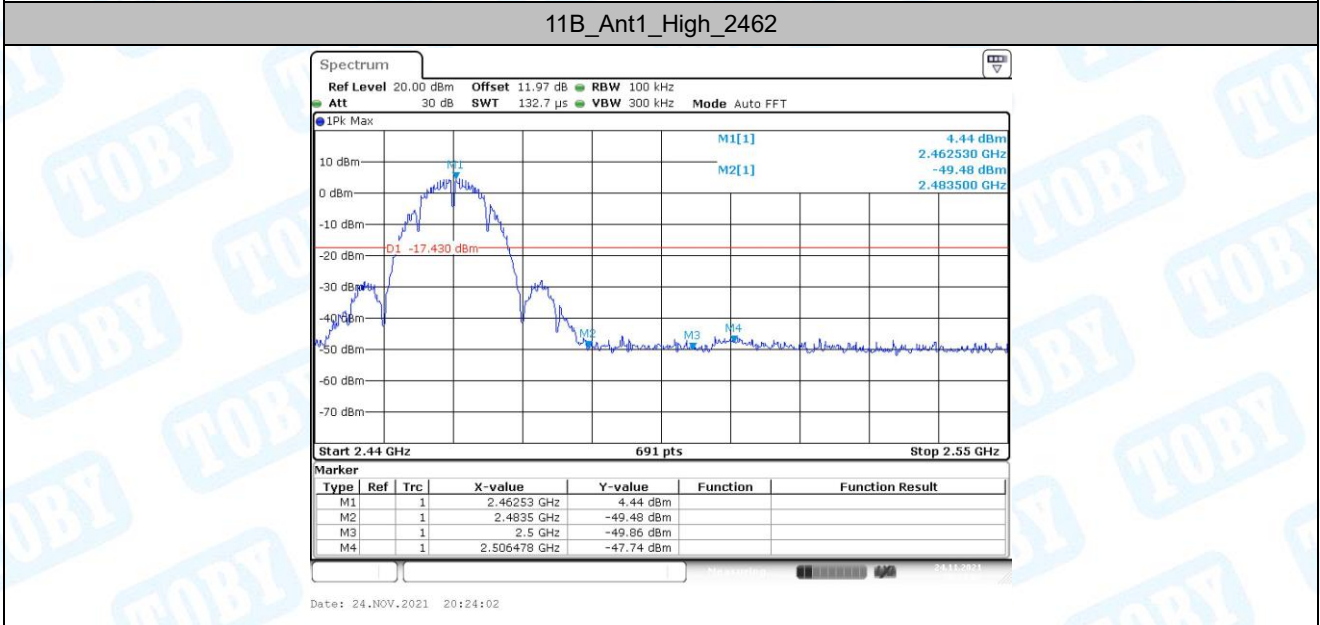
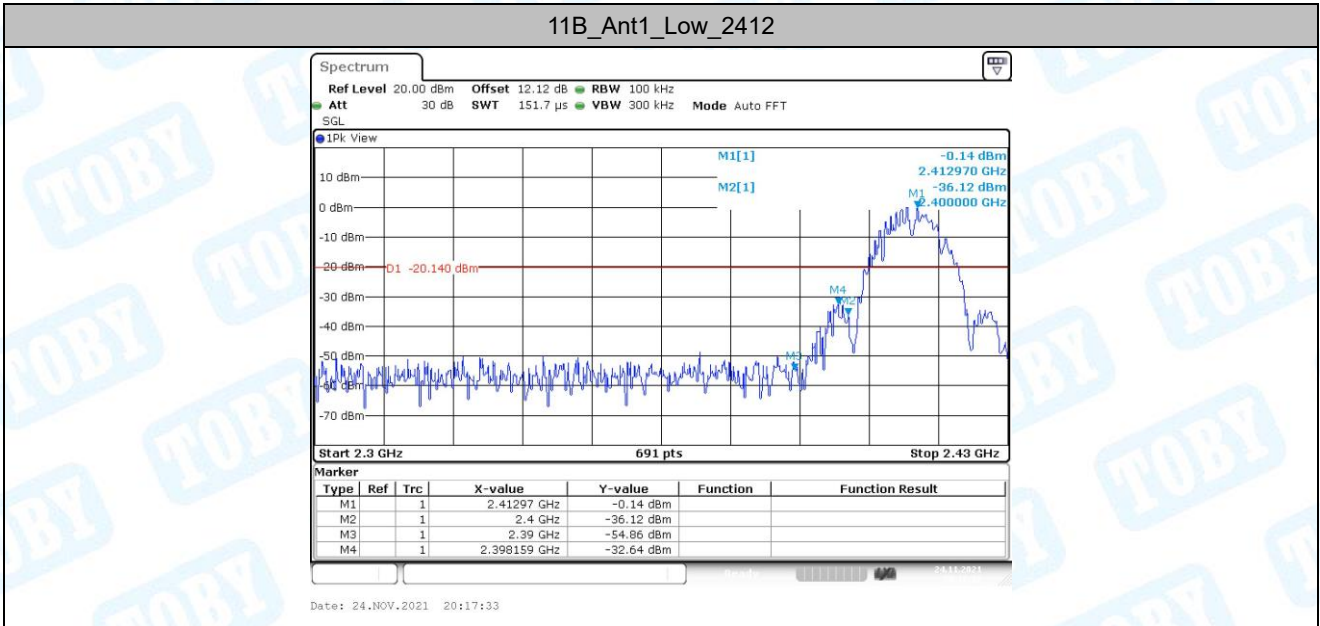
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## 5. Band edge measurements

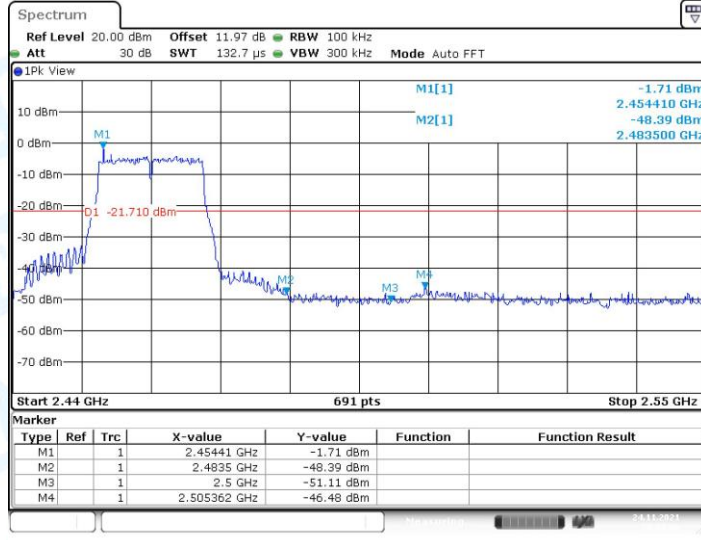
### 5.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.14	-32.64	≤-20.14	PASS
		High	2462	2.57	-47.74	≤-17.43	PASS
11G	Ant1	Low	2412	-0.78	-35.49	≤-20.78	PASS
		High	2462	-1.71	-46.48	≤-21.71	PASS

**5.2. Test Graphs**



11G\_Ant1\_High\_2462



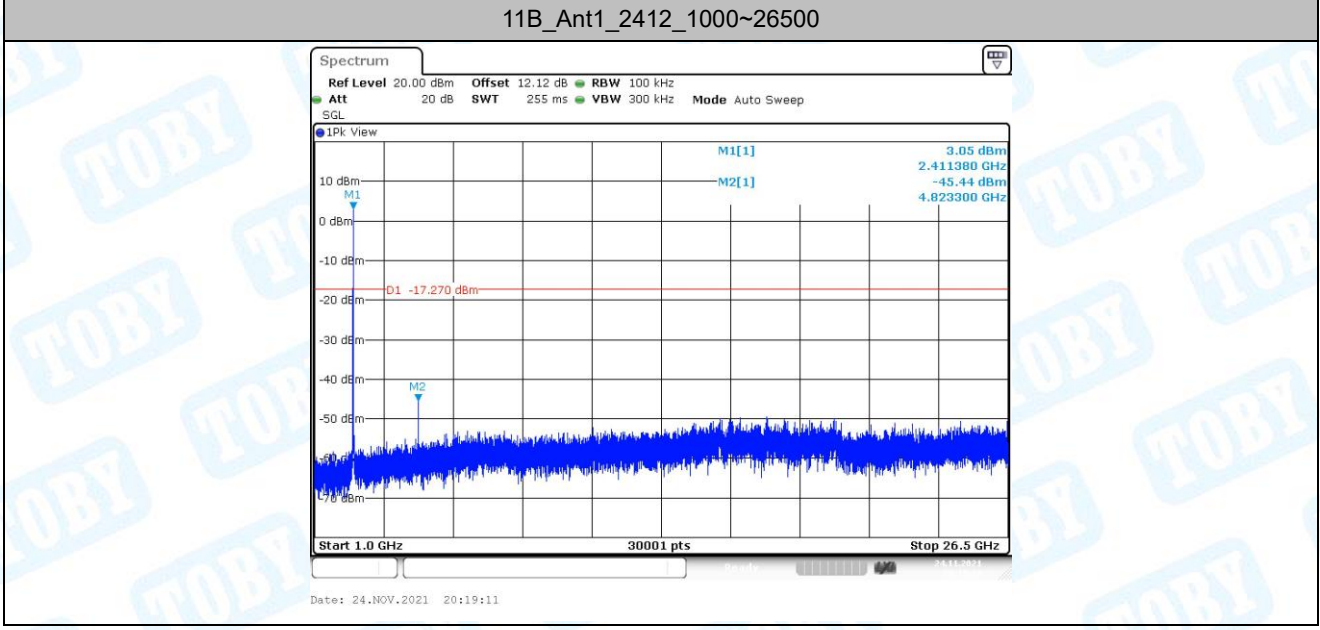
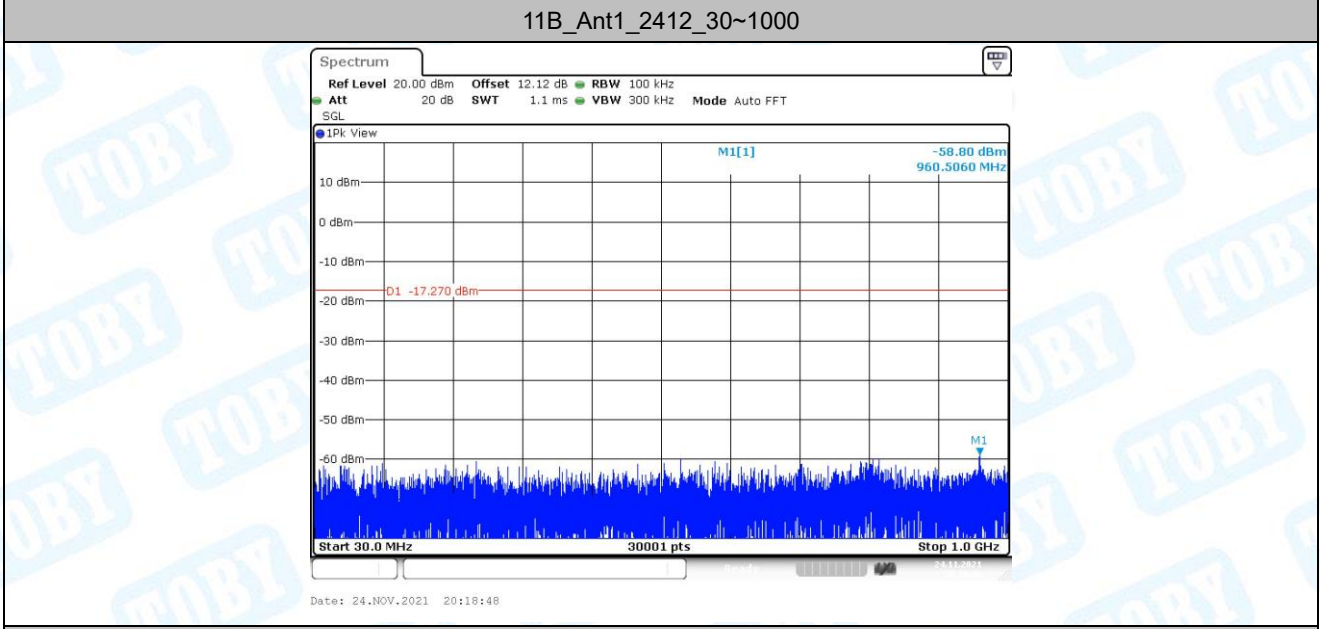
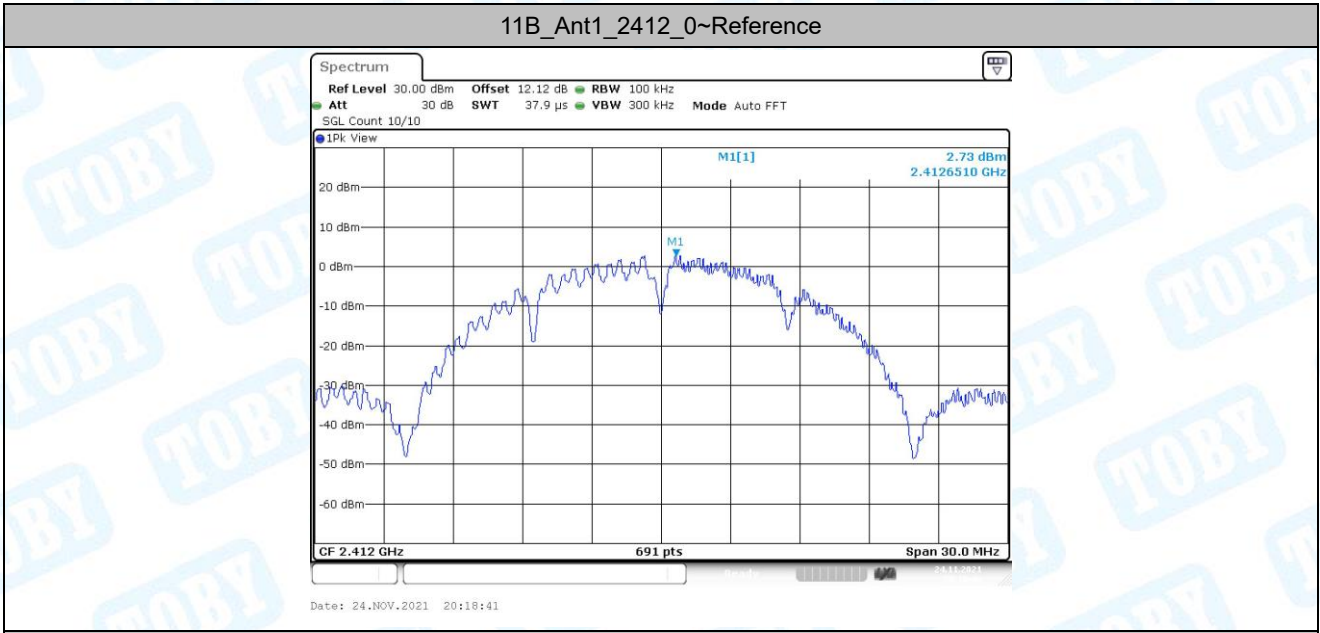
## 6. Conducted Spurious Emission

### 6.1. Test Result

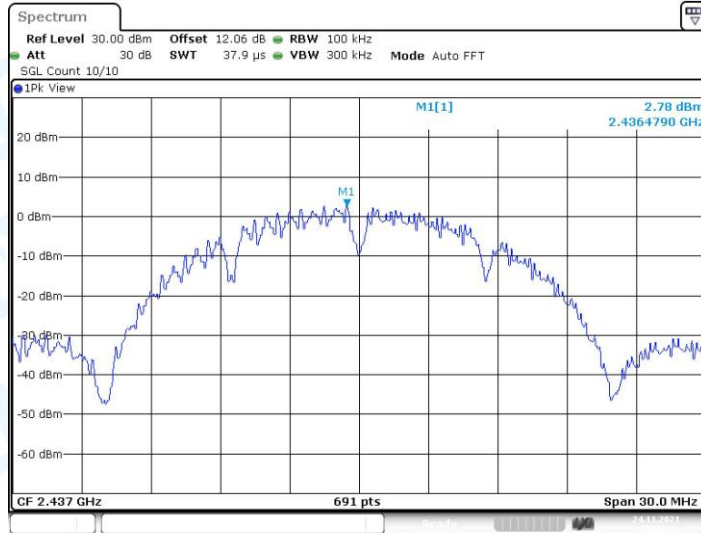
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.73	2.73	---	PASS
			30~1000	2.73	-58.8	≤-17.27	PASS
			1000~26500	2.73	-45.44	≤-17.27	PASS
		2437	Reference	2.78	2.78	---	PASS
			30~1000	2.78	-60	≤-17.22	PASS
			1000~26500	2.78	-48.33	≤-17.22	PASS
		2462	Reference	3.23	3.23	---	PASS
			30~1000	3.23	-59.34	≤-16.77	PASS
			1000~26500	3.23	-49.18	≤-16.77	PASS
11G	Ant1	2412	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-59.04	≤-22.65	PASS
			1000~26500	-2.65	-49.69	≤-22.65	PASS
		2437	Reference	-4.90	-4.90	---	PASS
			30~1000	-4.90	-59.41	≤-24.9	PASS
			1000~26500	-4.90	-49.64	≤-24.9	PASS
		2462	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-60.33	≤-20.96	PASS
			1000~26500	-0.96	-49.99	≤-20.96	PASS



## 6.2. Test Graphs

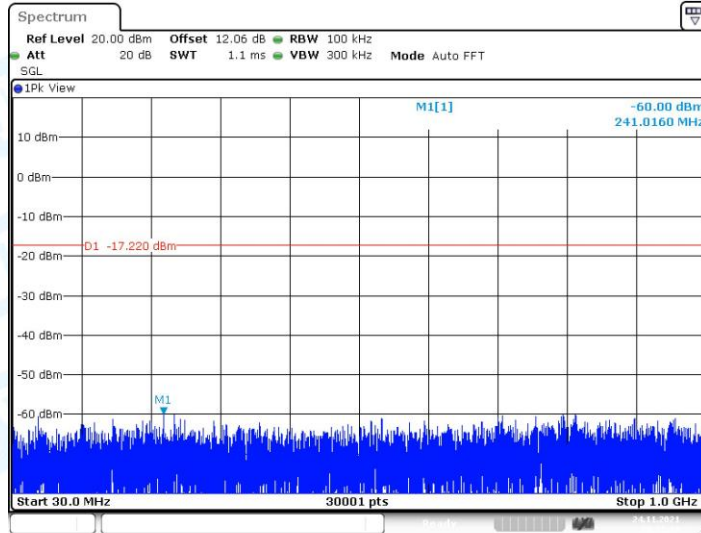


11B\_Ant1\_2437\_0~Reference



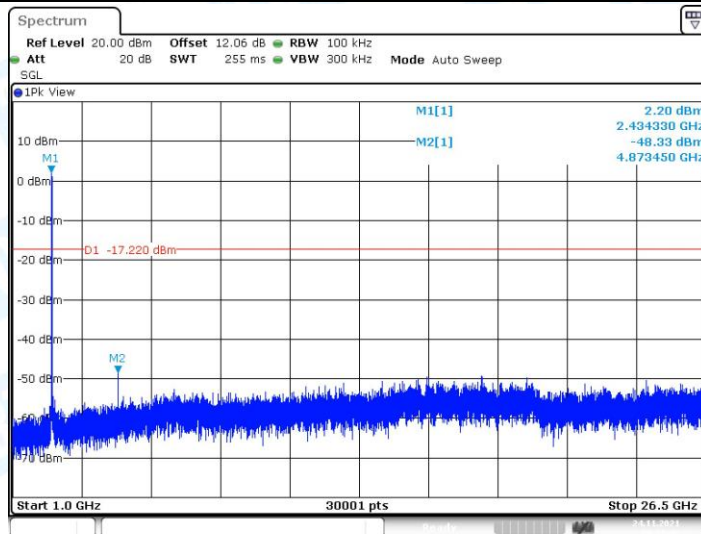
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11B\_Ant1\_2437\_30~1000



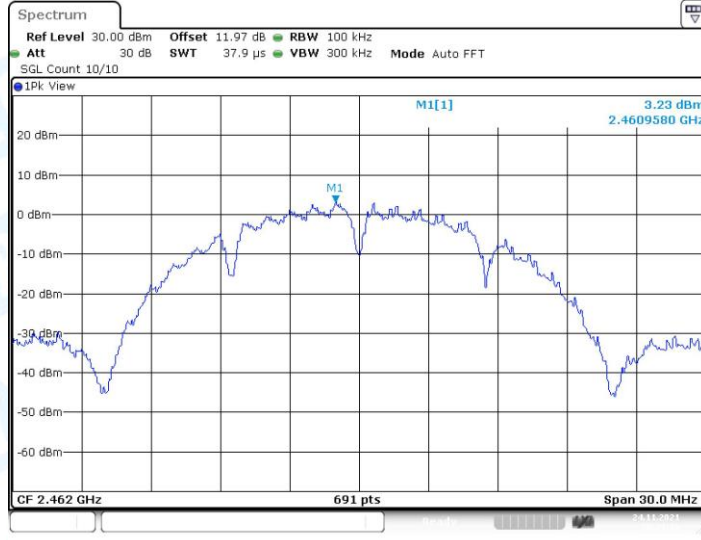
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11B\_Ant1\_2437\_1000~26500

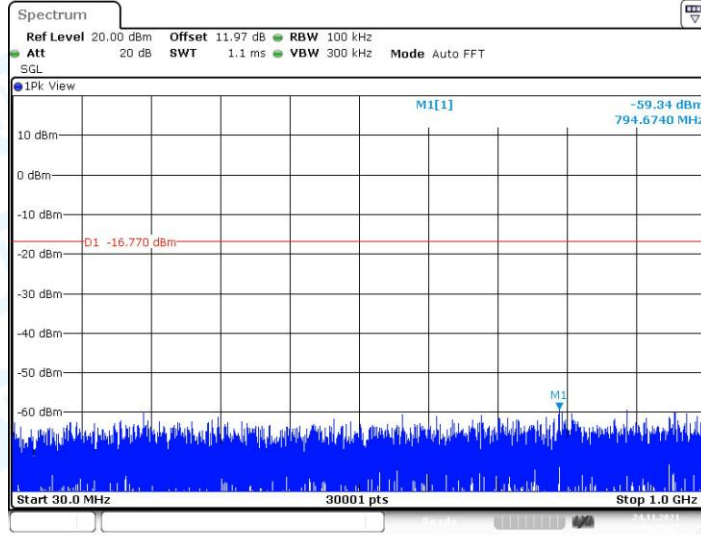


Date: 24.NOV.2021 20:21:41

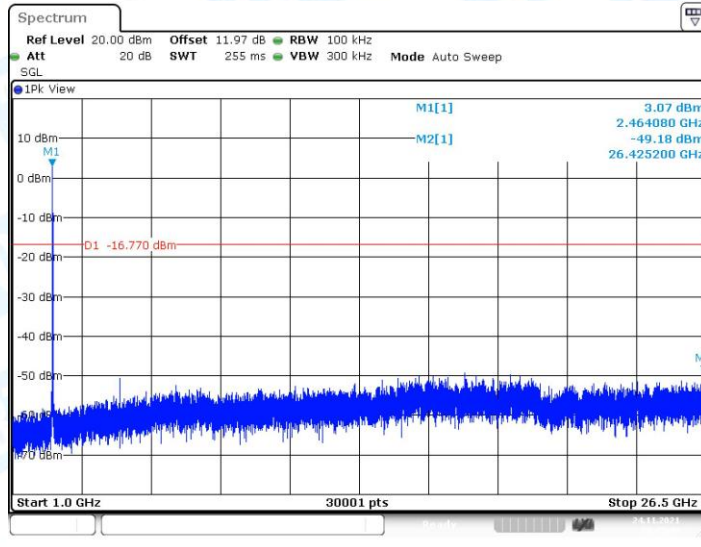
11B\_Ant1\_2462\_0~Reference



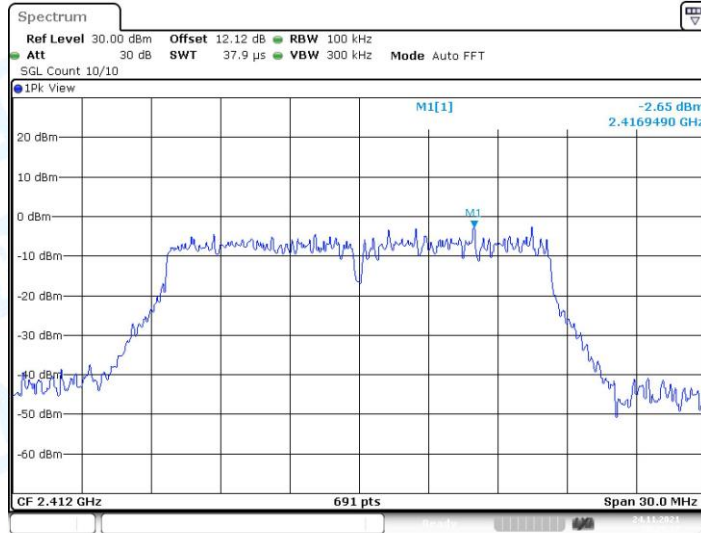
11B\_Ant1\_2462\_30~1000



11B\_Ant1\_2462\_1000~26500

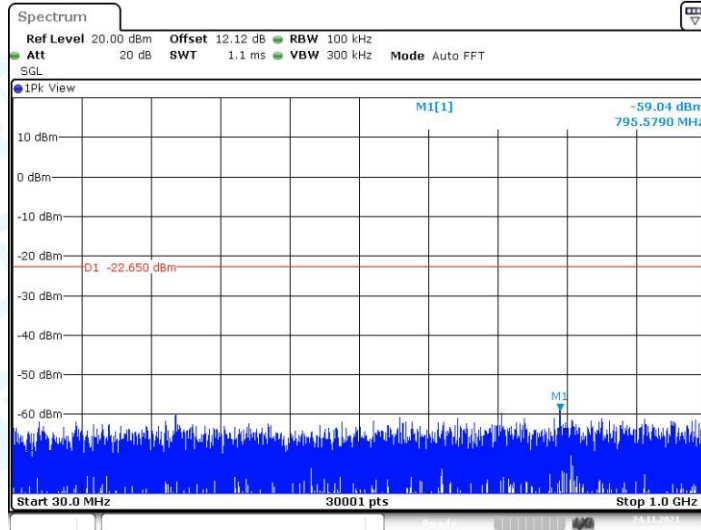


11G\_Ant1\_2412\_0~Reference



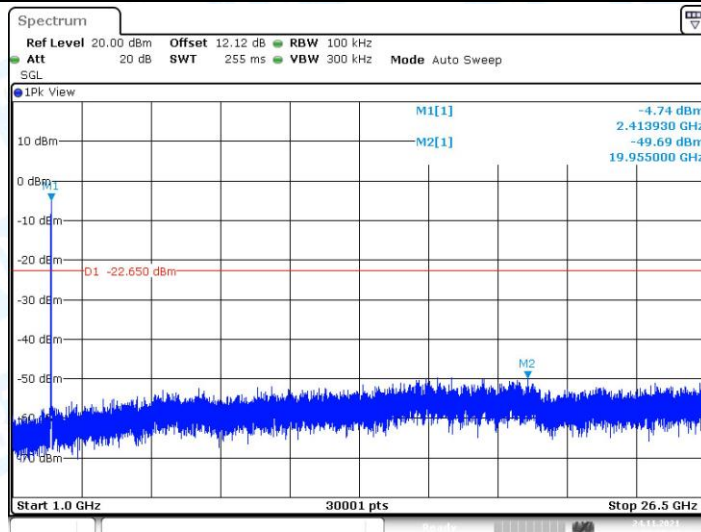
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11G\_Ant1\_2412\_30~1000



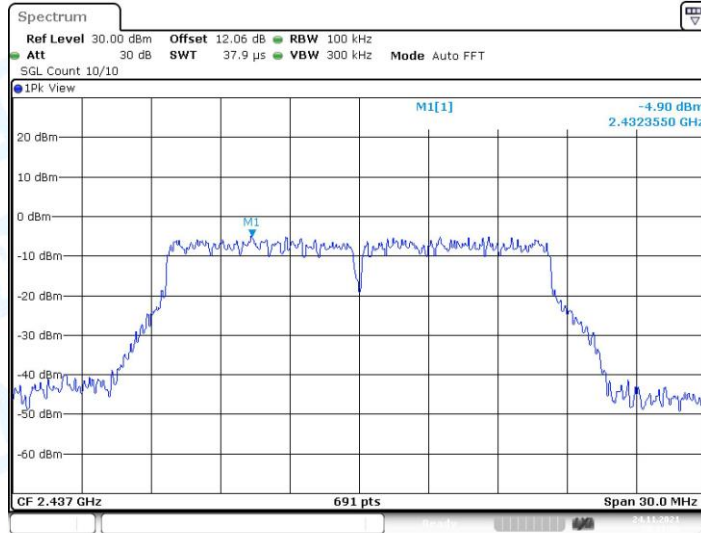
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11G\_Ant1\_2412\_1000~26500



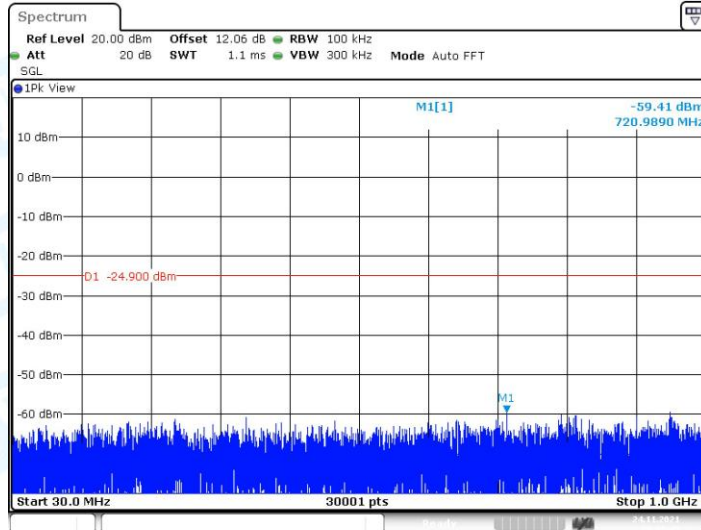
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11G\_Ant1\_2437\_0~Reference



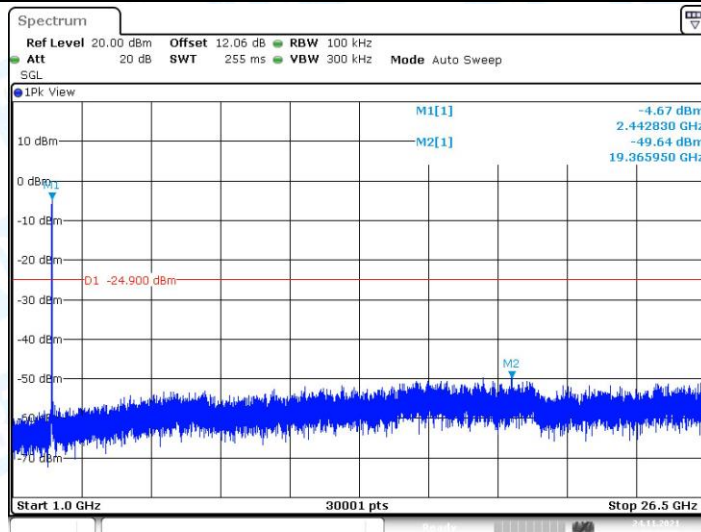
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11G\_Ant1\_2437\_30~1000



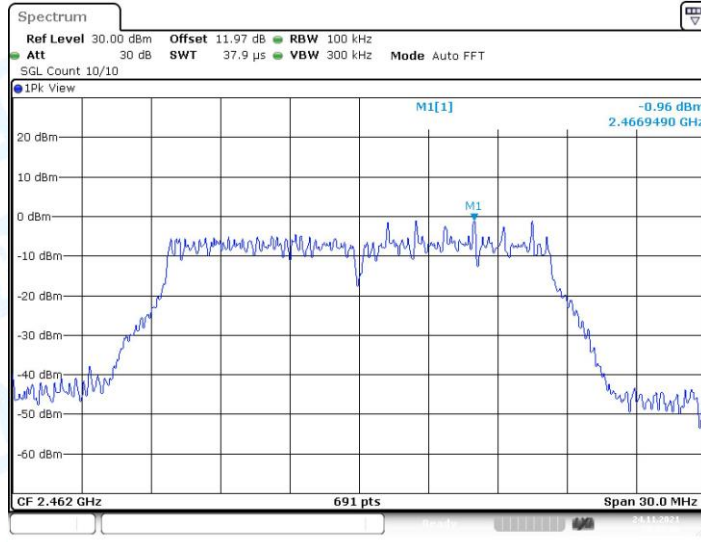
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11G\_Ant1\_2437\_1000~26500



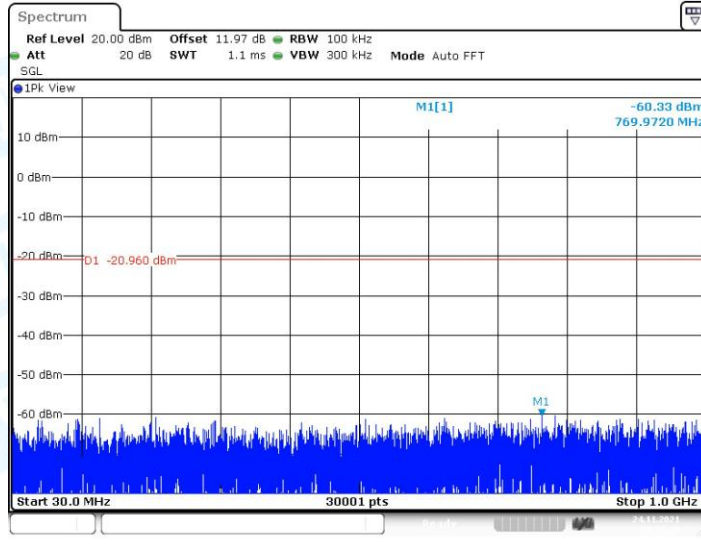
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11G\_Ant1\_2462\_0~Reference



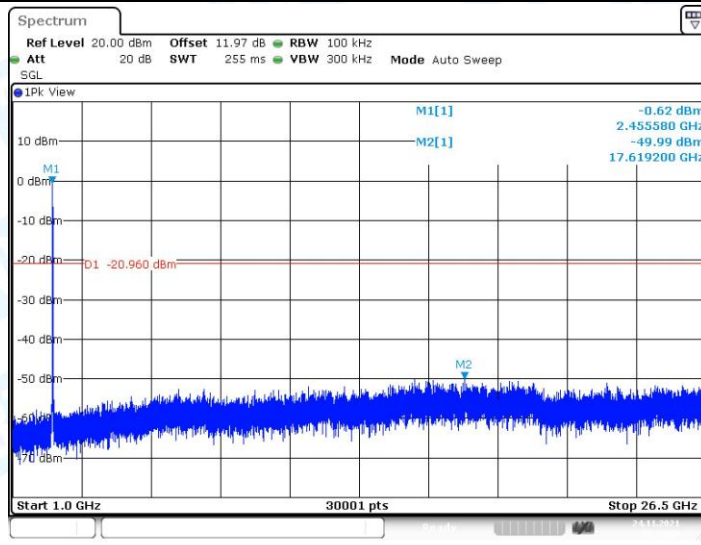
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11G\_Ant1\_2462\_30~1000



Date: 24.NOV.2021 20:35:16

11G\_Ant1\_2462\_1000~26500



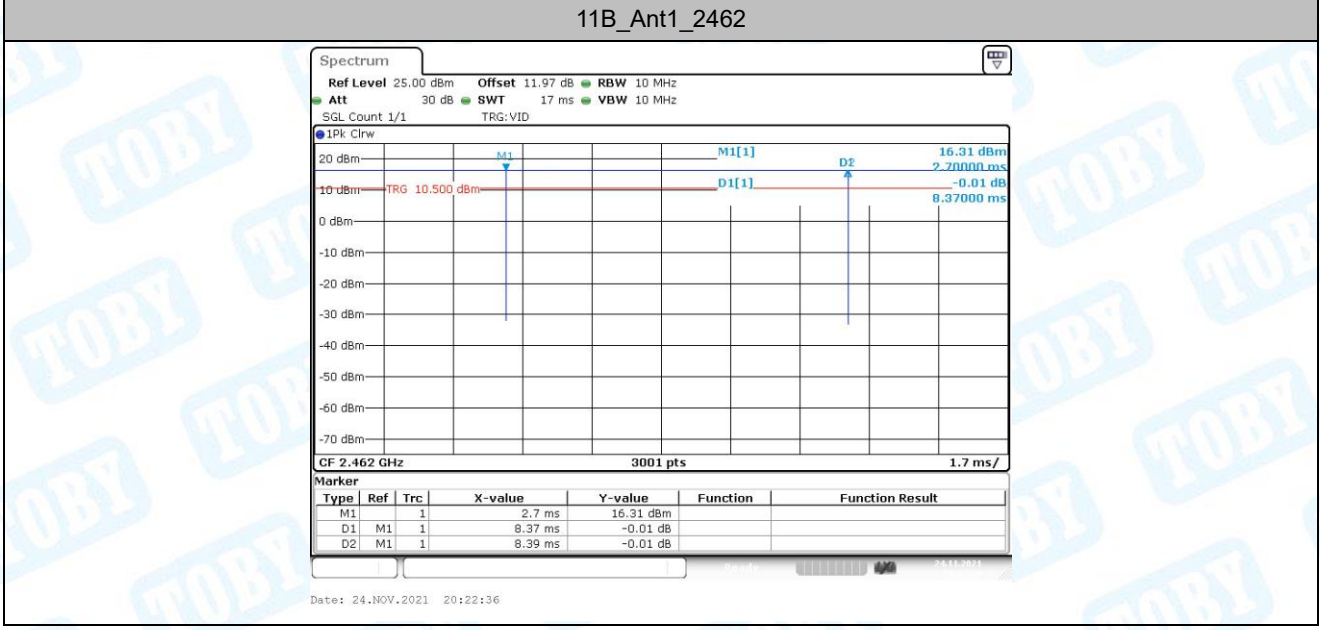
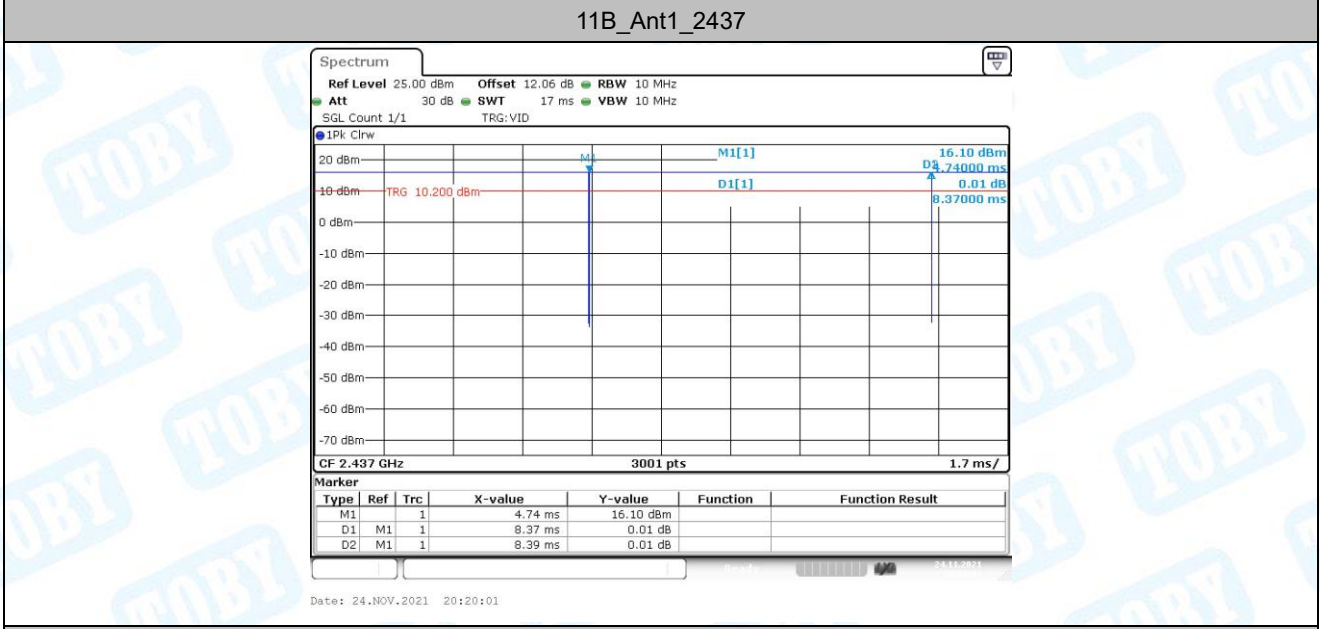
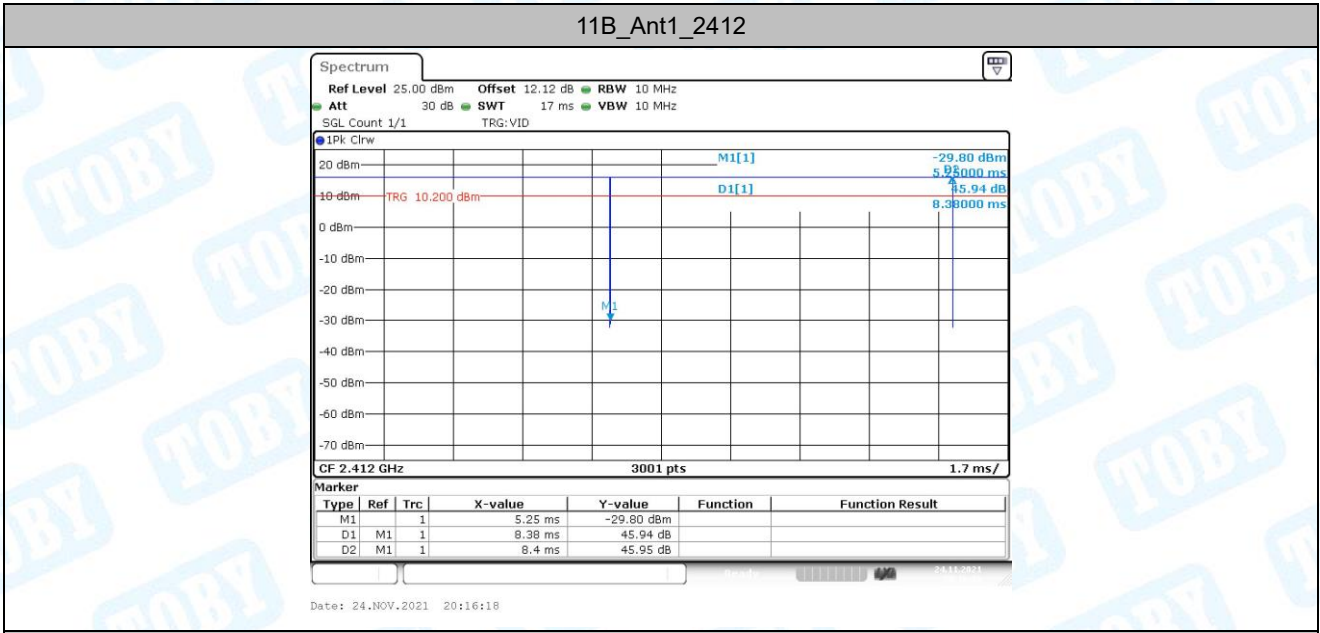
Date: 24.NOV.2021 20:35:38

## 7. Duty Cycle

### 7.1. Test Result

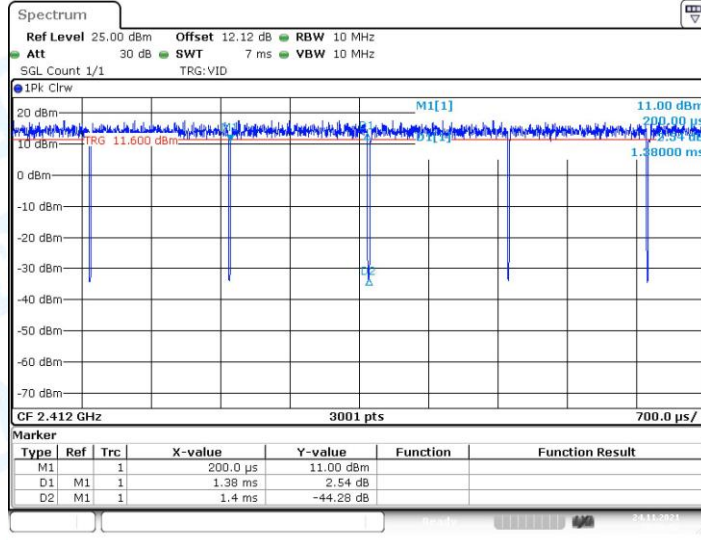
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	1/T [KHz]	Verdict
11B	Ant1	2412	8.38	8.40	99.76	---	0.119	PASS
		2437	8.37	8.39	99.76	---	0.119	PASS
		2462	8.37	8.39	99.76	---	0.119	PASS
11G	Ant1	2412	1.38	1.40	98.57	---	0.725	PASS
		2437	1.39	1.41	98.58	---	0.719	PASS
		2462	1.39	1.41	98.58	---	0.719	PASS

**7.2. Test Graphs**



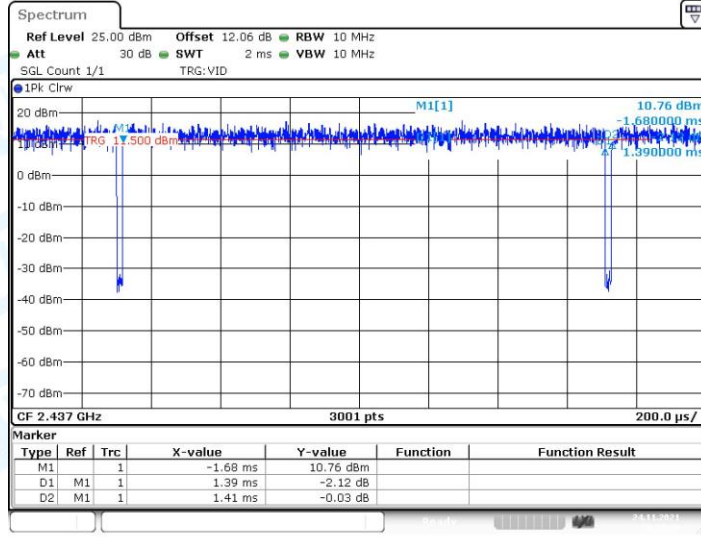


11G\_Ant1\_2412



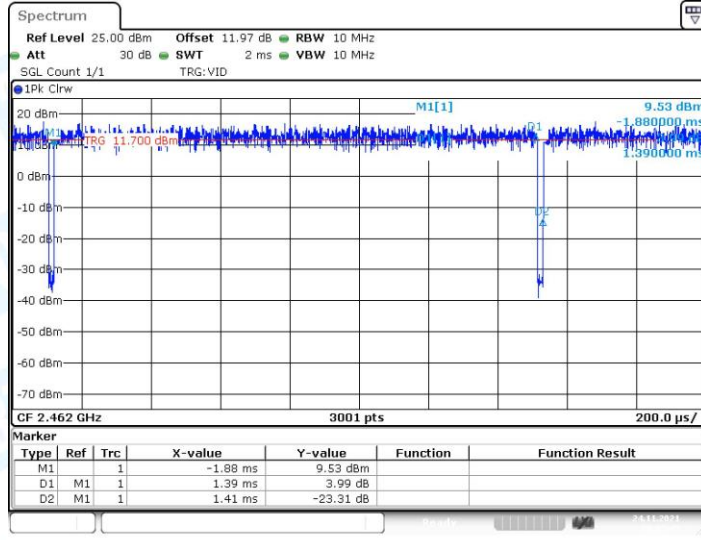
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11G\_Ant1\_2437



Date: 24.NOV.2021 20:30:28

11G\_Ant1\_2462



Date: 24.NOV.2021 20:32:45

## 8. Emissions in Restricted Bands

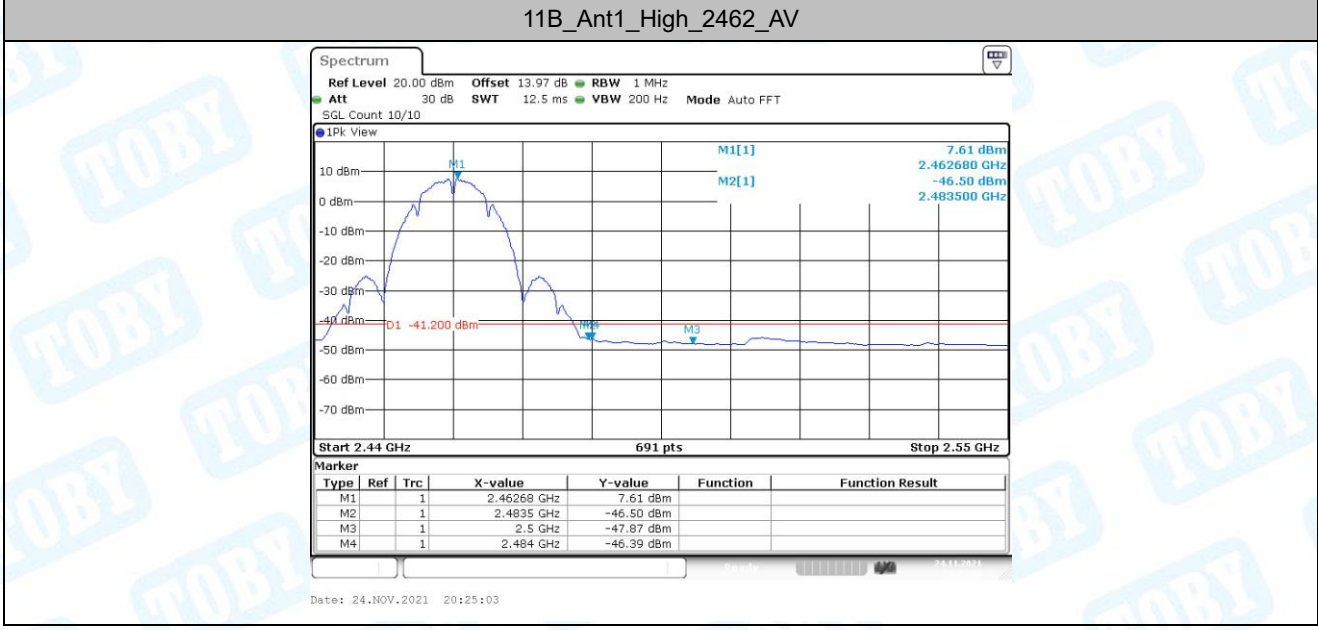
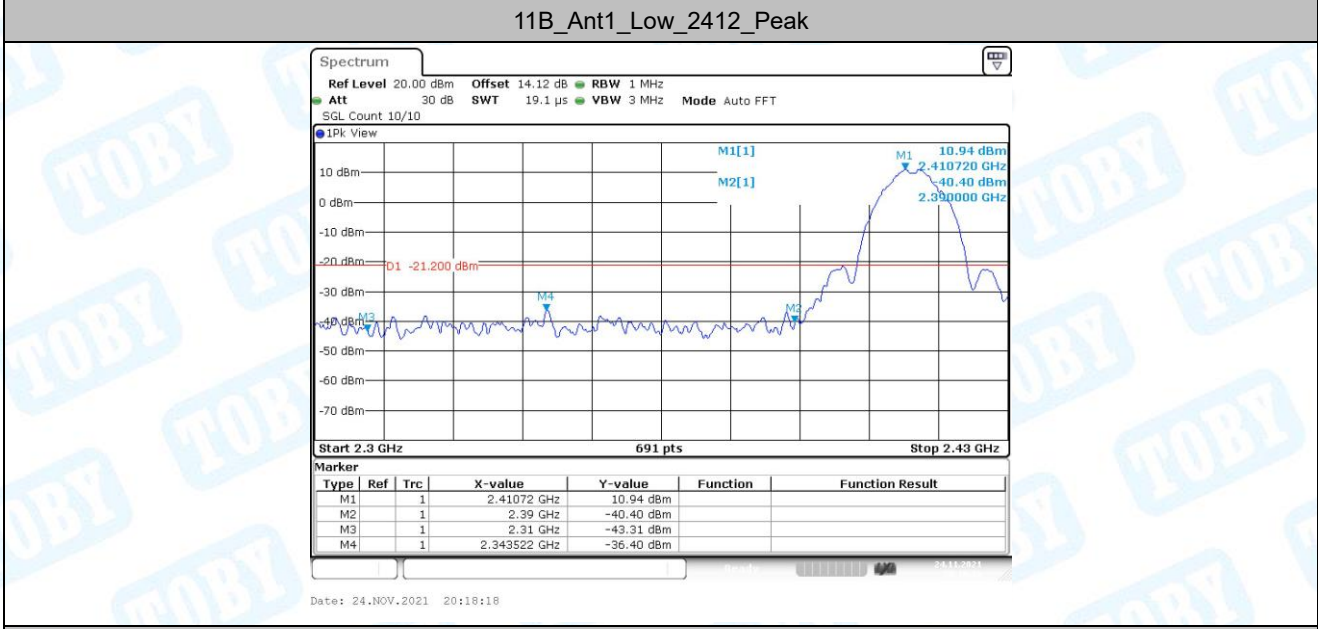
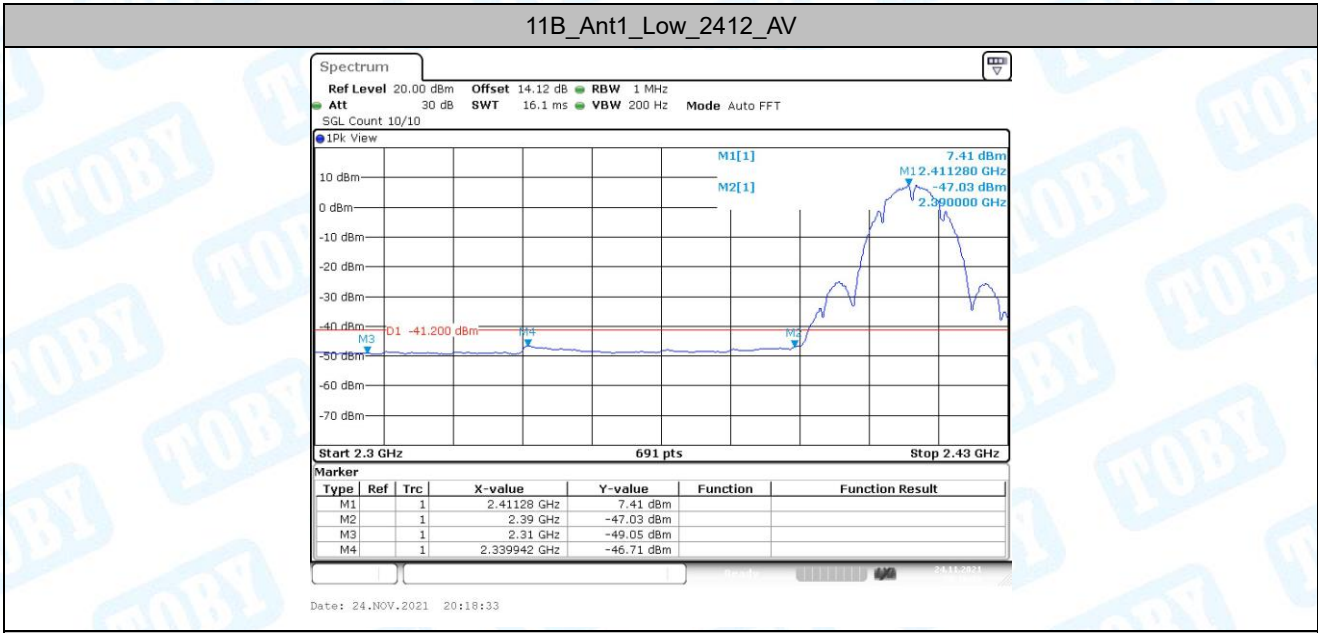
### 8.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-49.05	≤-41.20	PASS
				AV	2339.942	-46.71	≤-41.20	PASS
				AV	2390.000	-47.03	≤-41.20	PASS
				Peak	2310.000	-43.31	≤-21.20	PASS
				Peak	2343.522	-36.4	≤-21.20	PASS
				Peak	2390.000	-40.4	≤-21.20	PASS
		High	2462	AV	2483.500	-46.5	≤-41.20	PASS
				AV	2484.000	-46.39	≤-41.20	PASS
				AV	2500.000	-47.87	≤-41.20	PASS
				Peak	2483.500	-40.66	≤-21.20	PASS
				Peak	2495.797	-38.4	≤-21.20	PASS
				Peak	2500.000	-40.24	≤-21.20	PASS
11G	Ant1	Low	2412	AV	2310.000	-49.09	≤-41.20	PASS
				AV	2340.130	-46.49	≤-41.20	PASS
				AV	2390.000	-46.36	≤-41.20	PASS
				Peak	2310.000	-42.76	≤-21.20	PASS
				Peak	2346.536	-35.73	≤-21.20	PASS
				Peak	2390.000	-37.03	≤-21.20	PASS
		High	2462	AV	2483.500	-46.34	≤-41.20	PASS
				AV	2483.522	-46.34	≤-41.20	PASS
				AV	2500.000	-47.57	≤-41.20	PASS
				Peak	2483.500	-43.47	≤-21.20	PASS
				Peak	2499.145	-36.77	≤-21.20	PASS
				Peak	2500.000	-41.31	≤-21.20	PASS

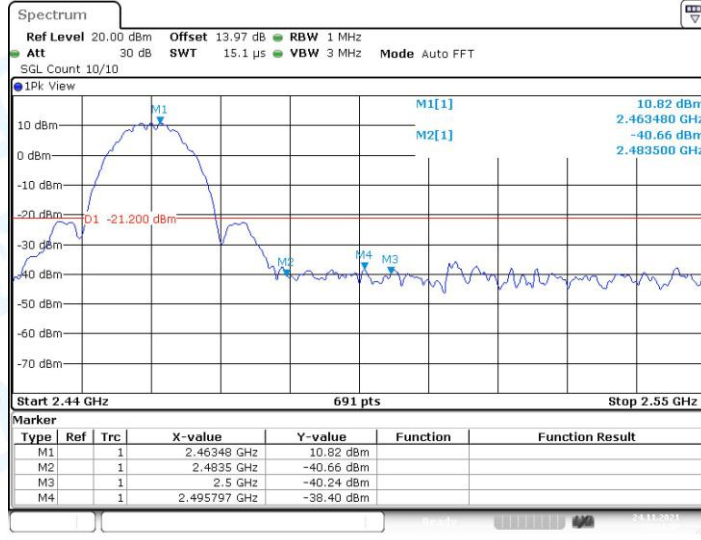
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

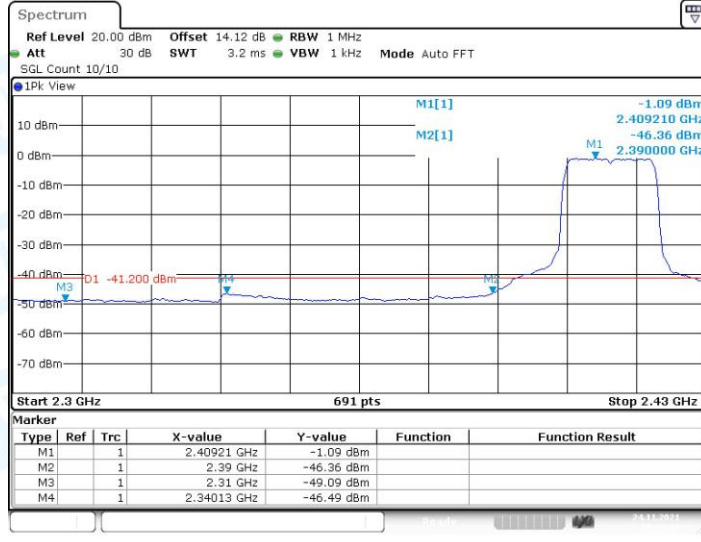
## 8.2. Test Graphs



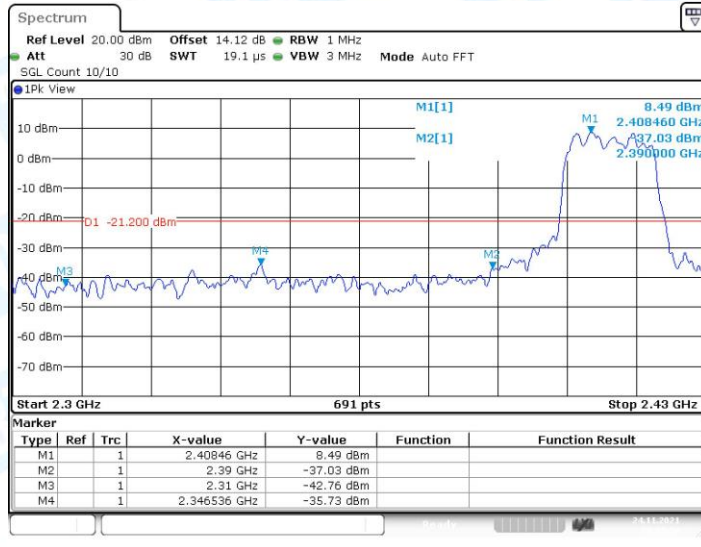
### 11B\_Ant1\_High\_2462\_Peak



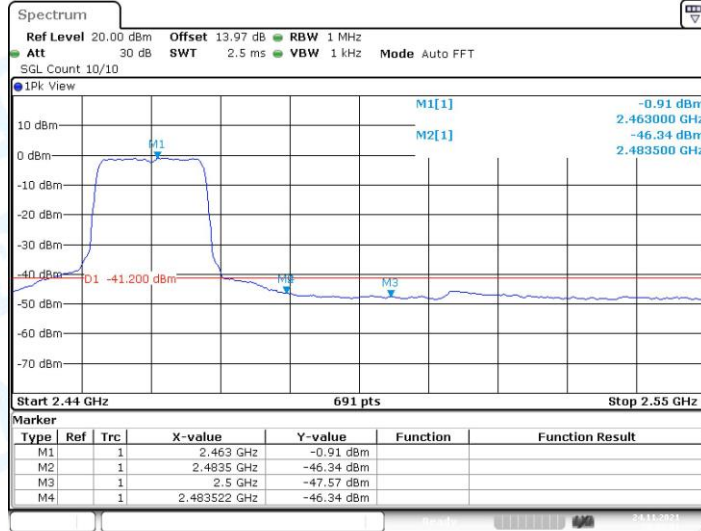
### 11G\_Ant1\_Low\_2412\_AV



### 11G\_Ant1\_Low\_2412\_Peak

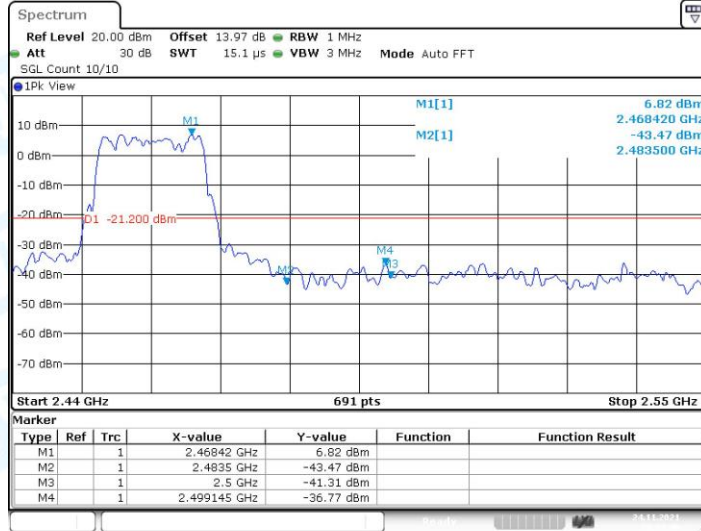


11G\_Ant1\_High\_2462\_AV



Date: 24.NOV.2021 20:35:01

11G\_Ant1\_High\_2462\_Peak



Date: 24.NOV.2021 20:34:46

-----End of the report-----