

RF Test Data for Bluetooth (BDR+EDR) (Conducted Measurements)

General Description of EUT	
Product Name:	7" Tablet
Test Model:	100071481
Sample ID:	20211116-07-1#
Environmental Conditions	
Temperature:	24.6℃
Relative Humidity:	49%
Test Voltage:	DC 3.85V
Test Engineer:	JianPing Huang
Note: For a more detailed features description, please refer to the report TB-FCC185299.	

Contents

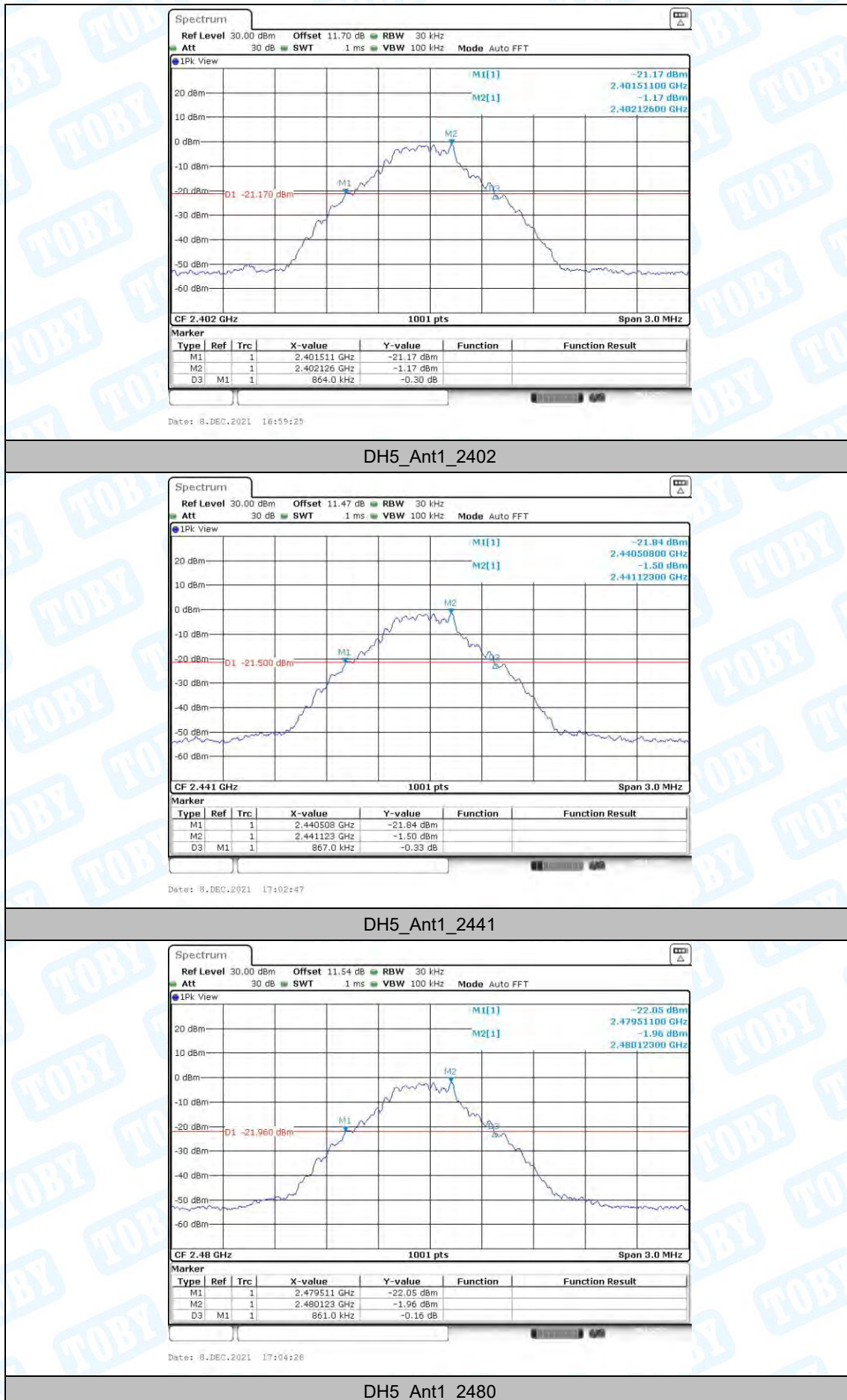
1. 20dB Emission Bandwidth.....	3
1.1. Test Result	3
1.2. Test Graphs	4
2. Occupied Channel Bandwidth.....	7
2.1. Test Result	7
2.2. Test Graphs	8
3. Maximum conducted output power	11
3.1. Test Result	11
3.2. Test Graphs	12
4. Carrier frequency separation	15
4.1. Test Result	15
4.2. Test Graphs	16
5. Time of occupancy	17
5.1. Test Result	17
5.2. Test Graphs	18
6. Number of hopping channels.....	21
6.1. Test Result	21
6.2. Test Graphs	22
7. Band edge measurements	23
7.1. Test Result	23
7.2. Test Graphs	24
8. Conducted Spurious Emission	28
8.1. Test Result	28
8.2. Test Graphs	29
9. Emissions in Restricted Bands	38
9.1. Test Result	38
10.2. Test Graphs	39

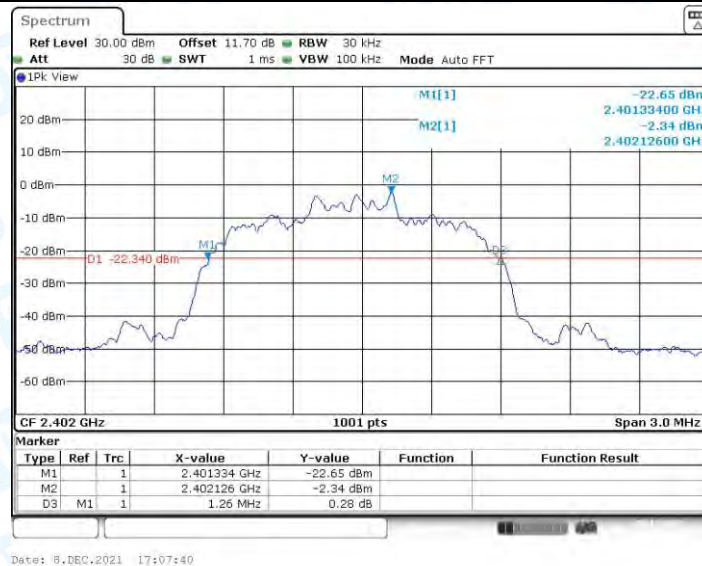
1. 20dB Emission Bandwidth

1.1. Test Result

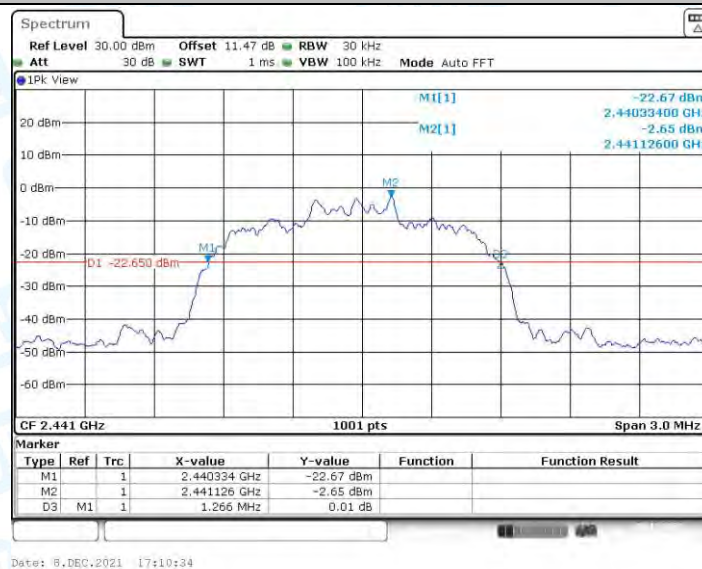
TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86	---	PASS
		2441	0.87	---	PASS
		2480	0.86	---	PASS
2DH5	Ant1	2402	1.26	---	PASS
		2441	1.27	---	PASS
		2480	1.27	---	PASS
3DH5	Ant1	2402	1.25	---	PASS
		2441	1.26	---	PASS
		2480	1.26	---	PASS

1.2. Test Graphs

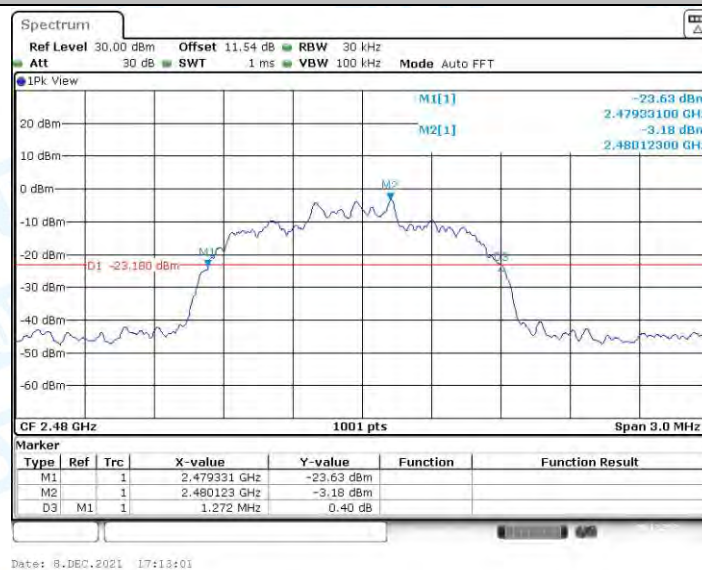




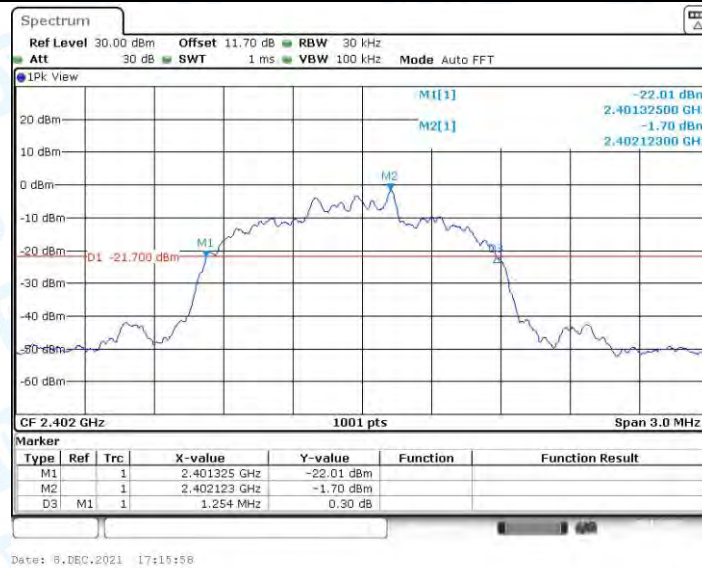
2DH5_Ant1_2402



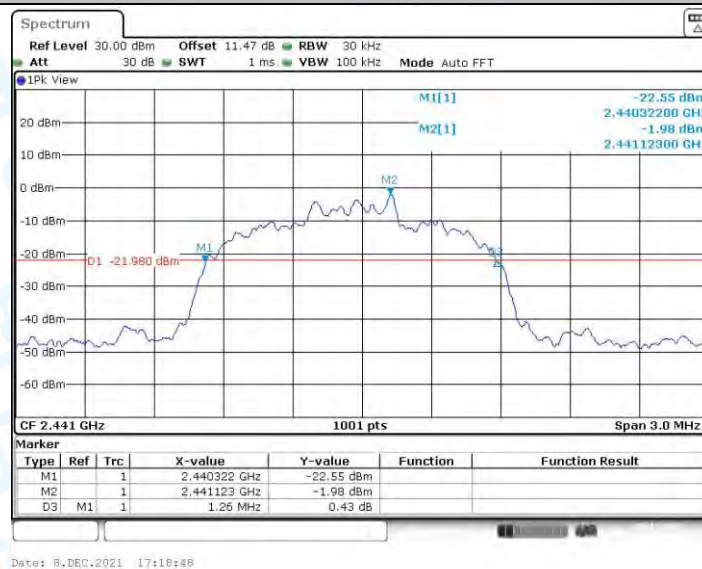
2DH5_Ant1_2441



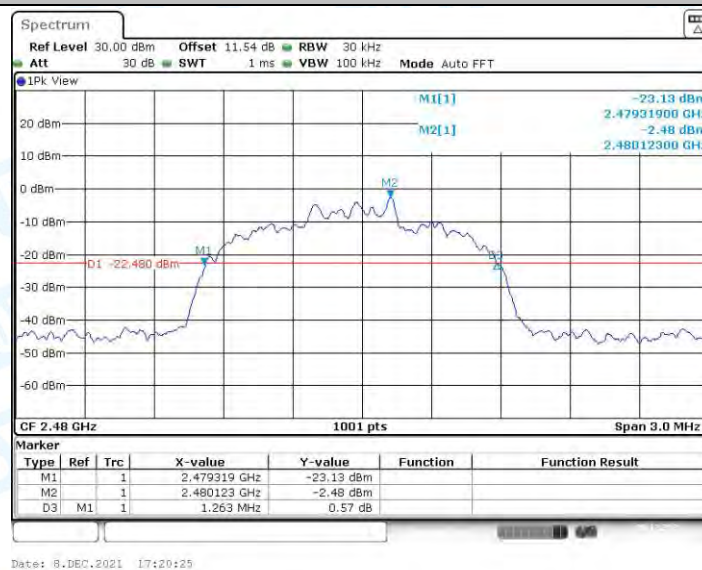
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



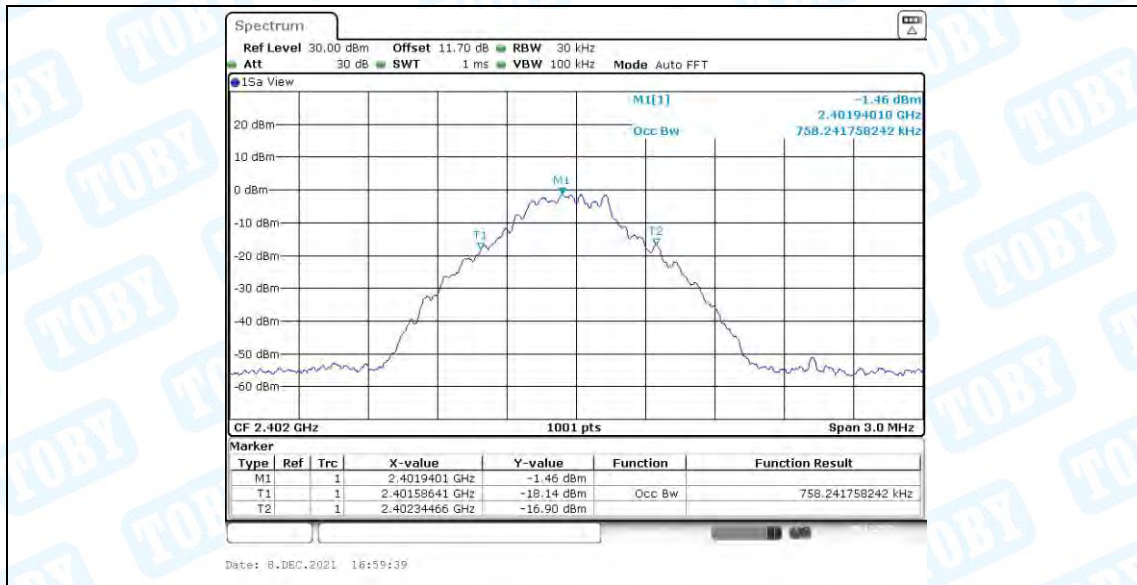
3DH5_Ant1_2480

2. Occupied Channel Bandwidth

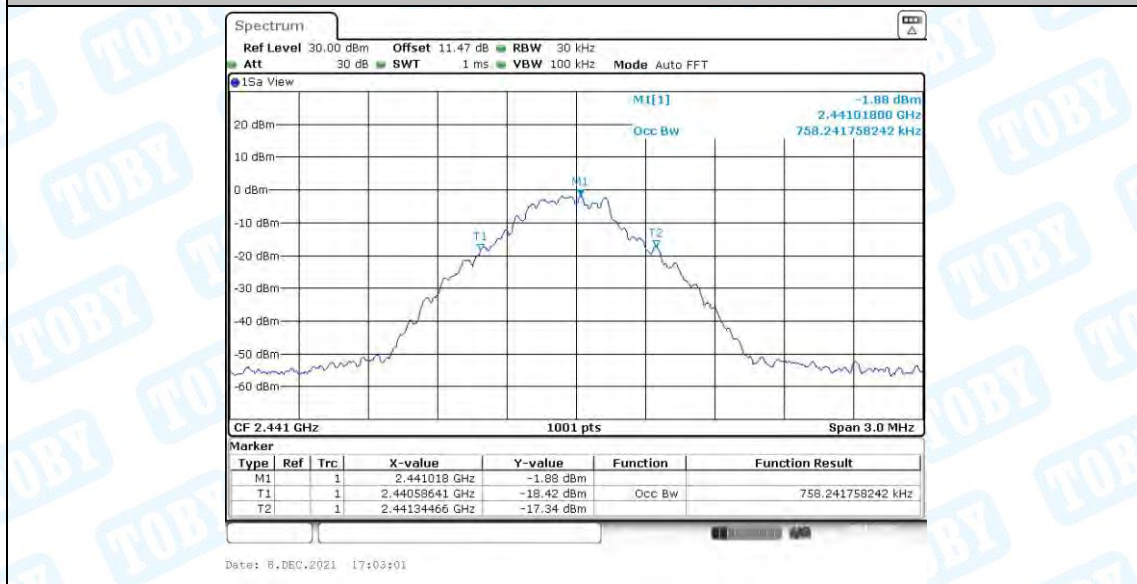
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.758	2401.586	2402.345	---	PASS
		2441	0.758	2440.586	2441.345	---	PASS
		2480	0.755	2479.586	2480.342	---	PASS
2DH5	Ant1	2402	1.145	2401.386	2402.530	---	PASS
		2441	1.151	2440.383	2441.533	---	PASS
		2480	1.151	2479.383	2480.533	---	PASS
3DH5	Ant1	2402	1.151	2401.389	2402.539	---	PASS
		2441	1.148	2440.389	2441.536	---	PASS
		2480	1.154	2479.386	2480.539	---	PASS

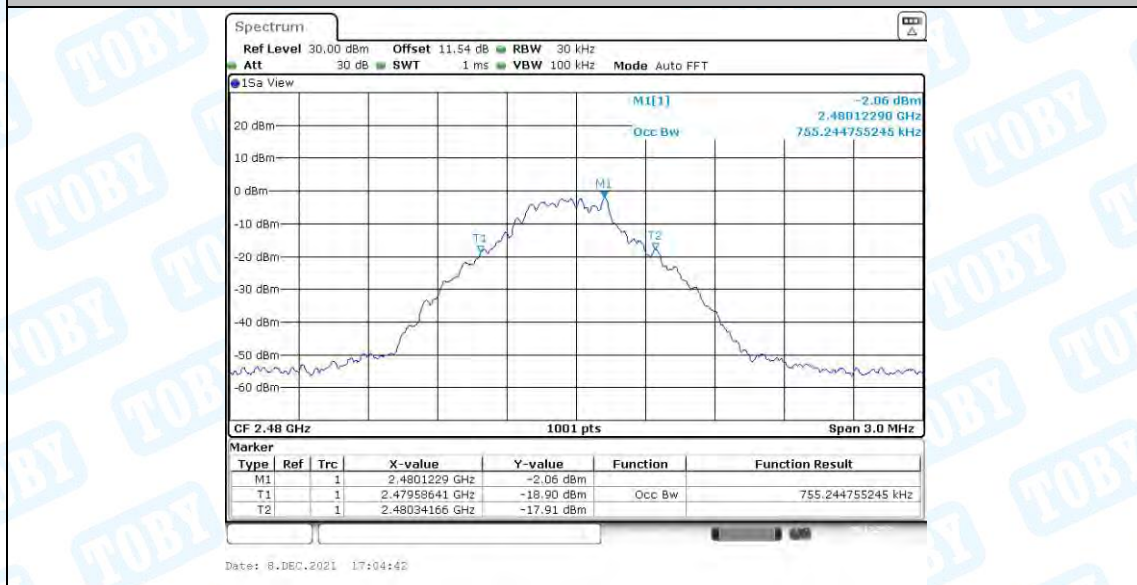
2.2. Test Graphs



DH5_Ant1_2402



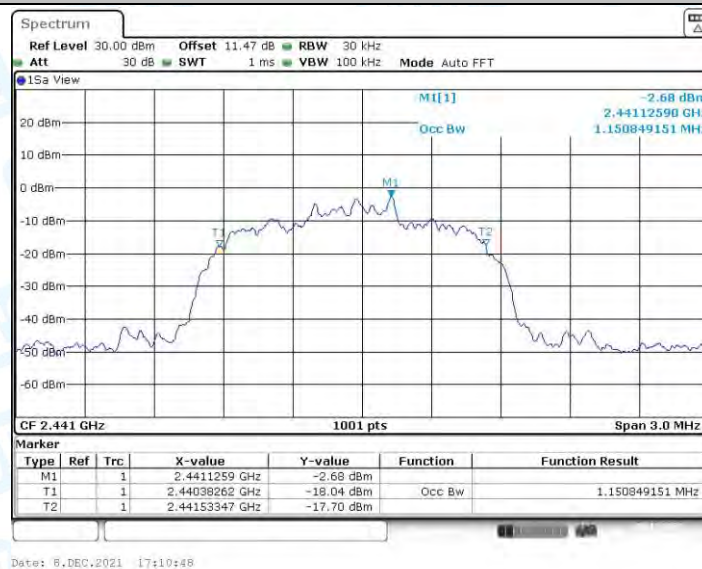
DH5_Ant1_2441



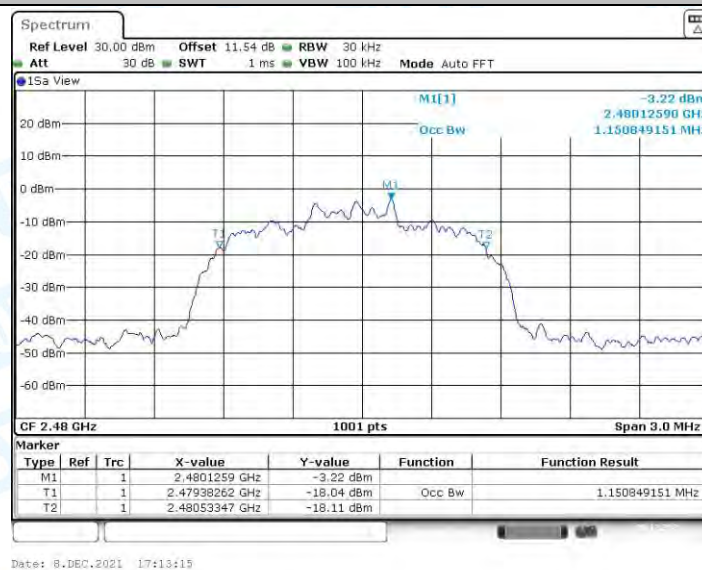
DH5_Ant1_2480



2DH5_Ant1_2402



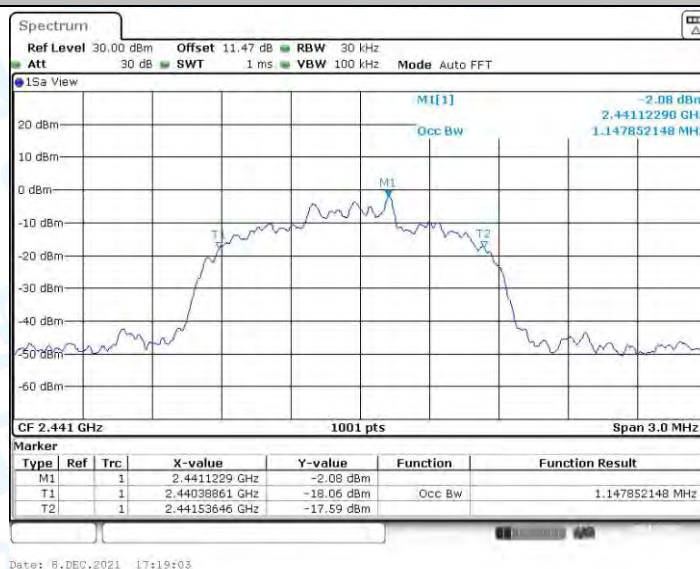
2DH5_Ant1_2441



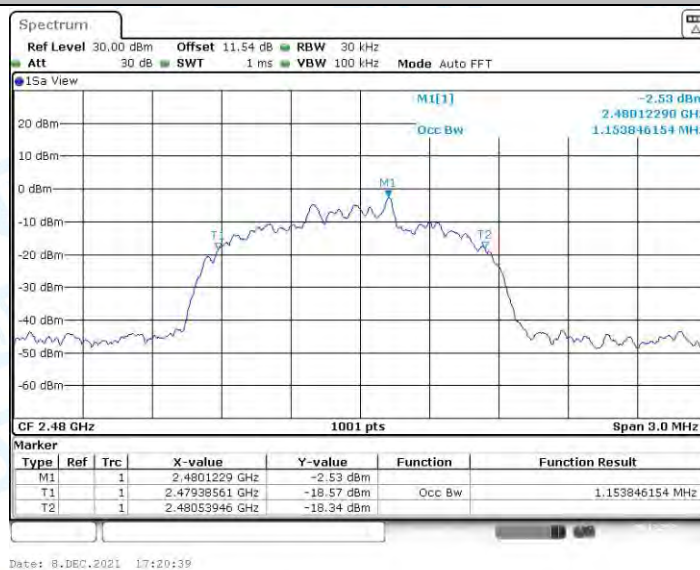
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



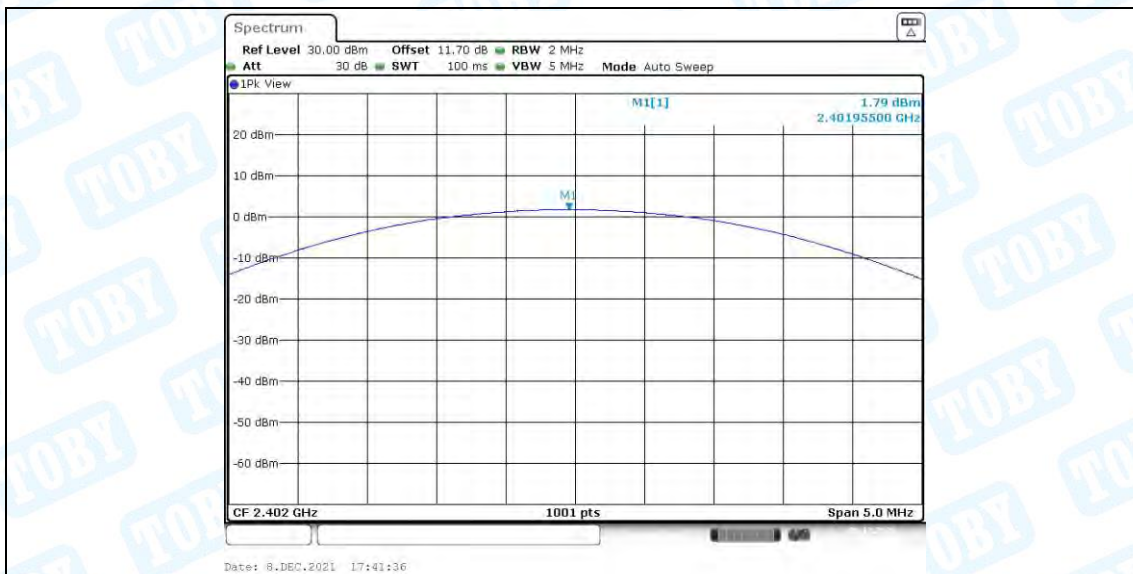
3DH5_Ant1_2480

3. Maximum conducted output power

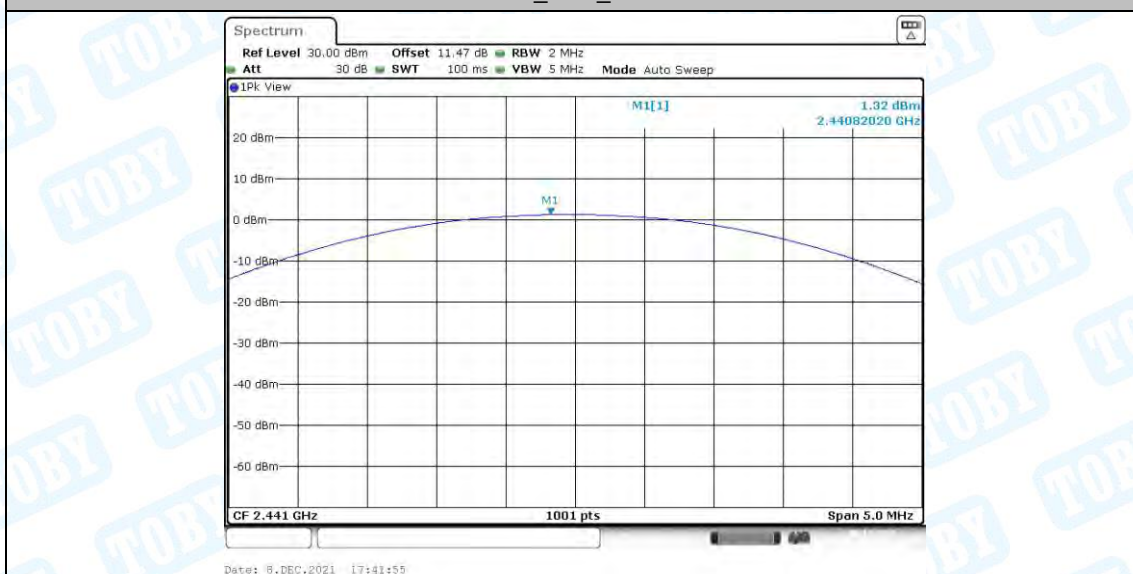
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.79	≤ 20.97	PASS
		2441	1.32	≤ 20.97	PASS
		2480	0.71	≤ 20.97	PASS
2DH5	Ant1	2402	0.92	≤ 20.97	PASS
		2441	0.61	≤ 20.97	PASS
		2480	0.13	≤ 20.97	PASS
3DH5	Ant1	2402	0.9	≤ 20.97	PASS
		2441	0.58	≤ 20.97	PASS
		2480	0.10	≤ 20.97	PASS

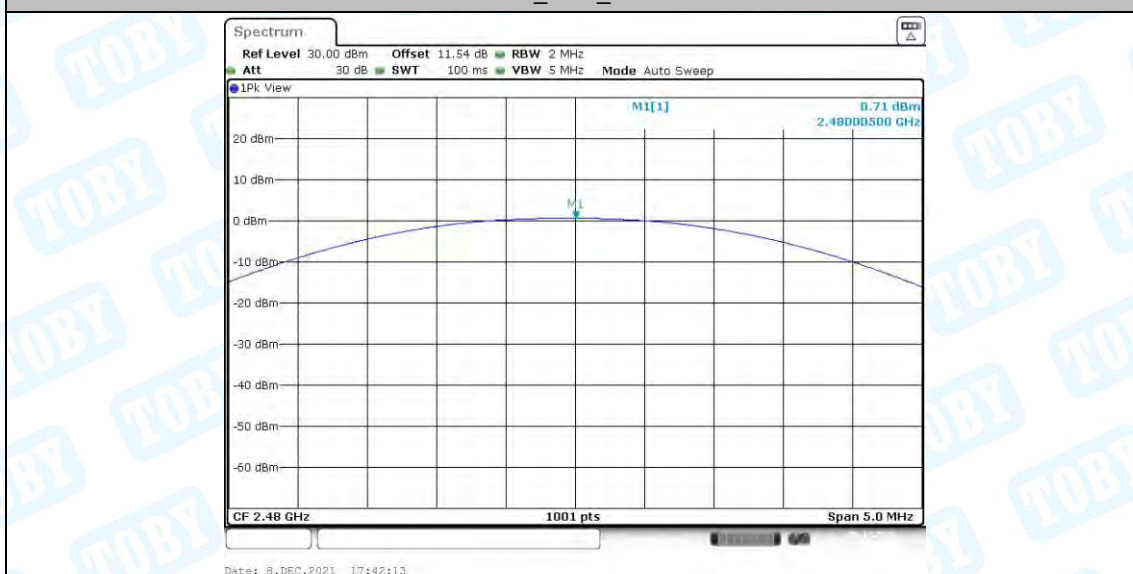
3.2.Test Graphs



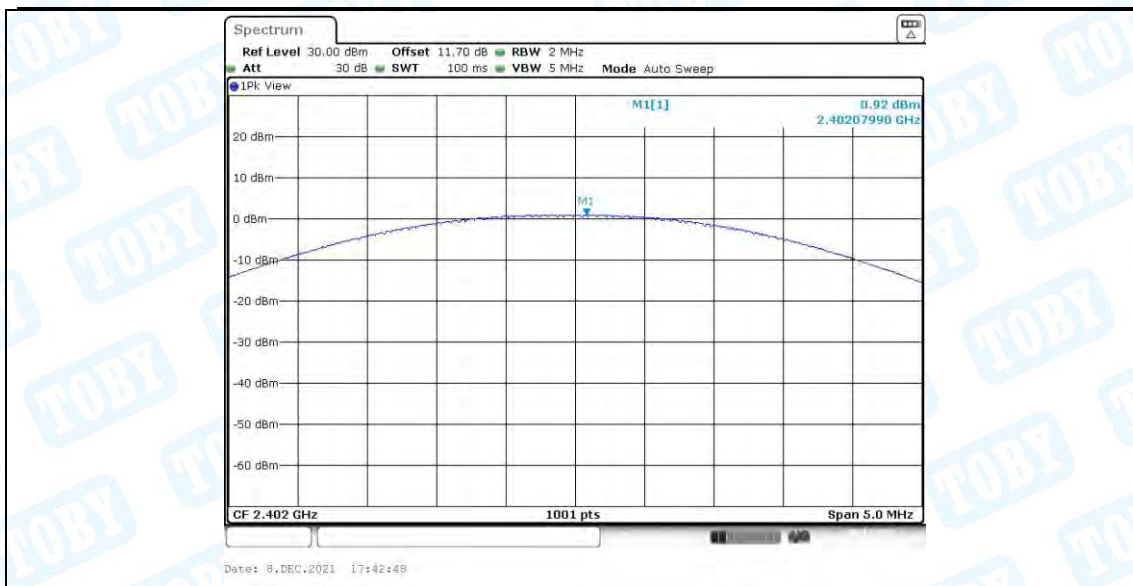
DH5_Ant1_2402



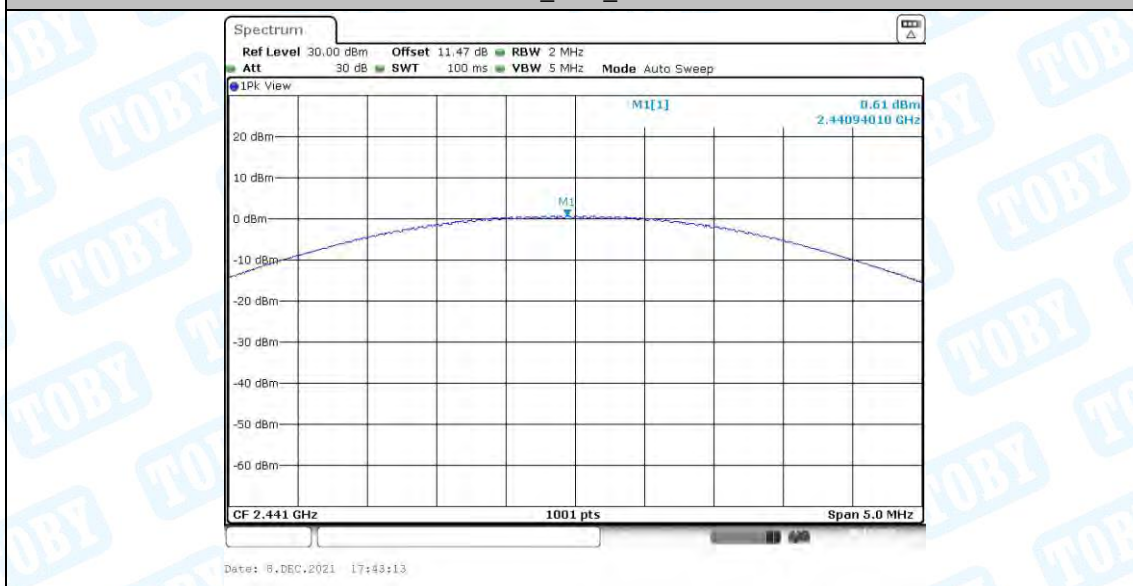
DH5_Ant1_2441



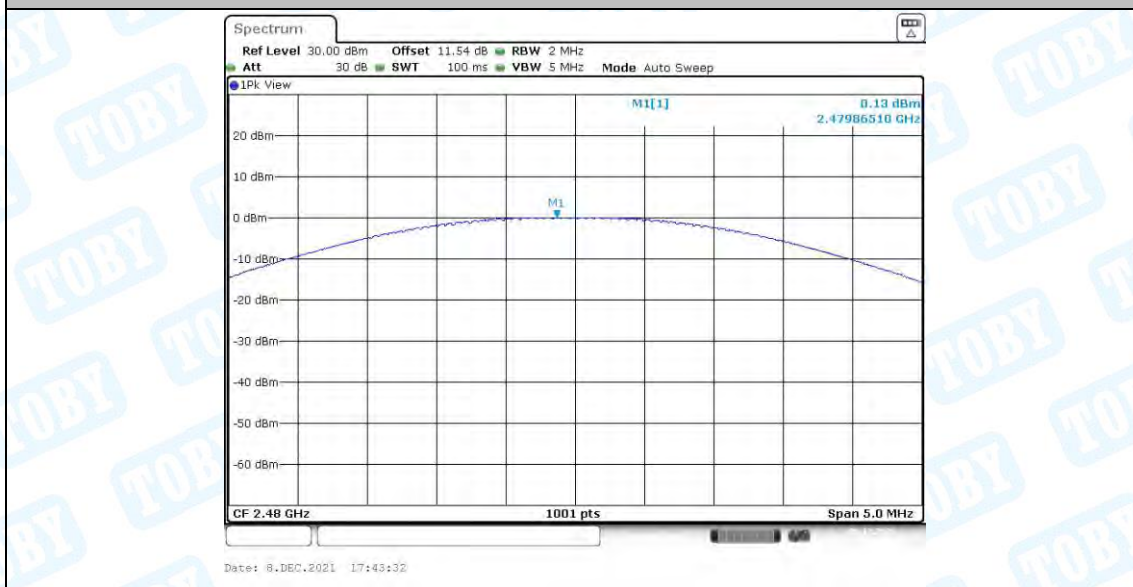
DH5_Ant1_2480



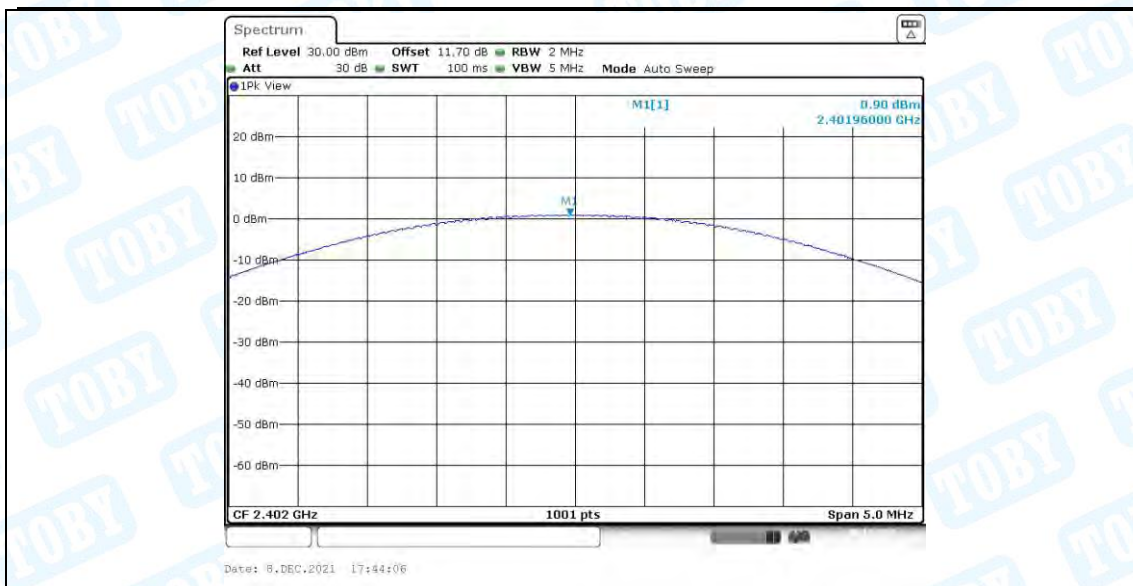
2DH5_Ant1_2402



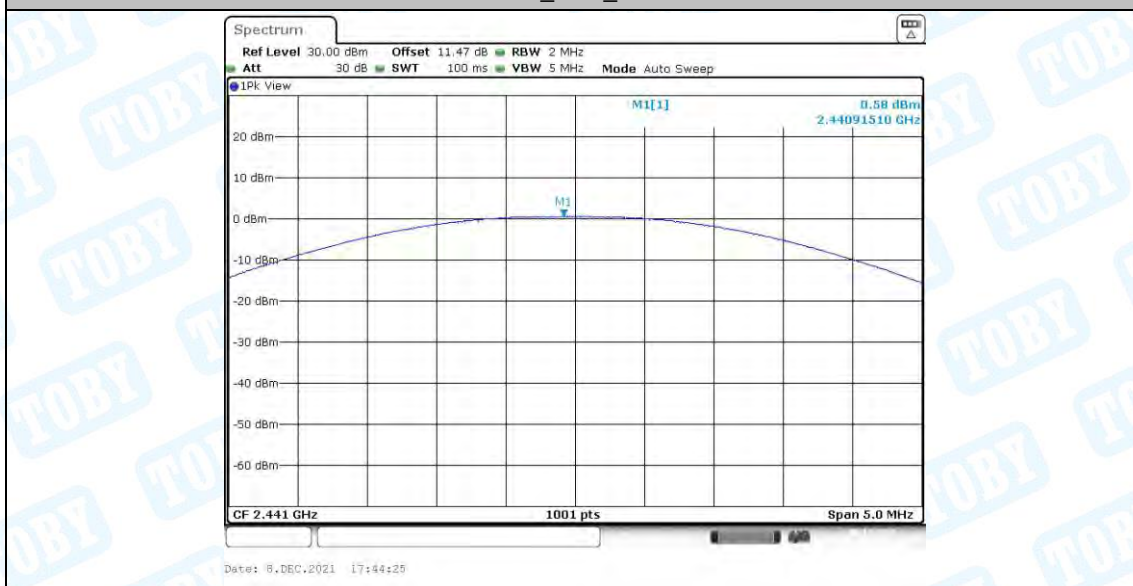
2DH5_Ant1_2441



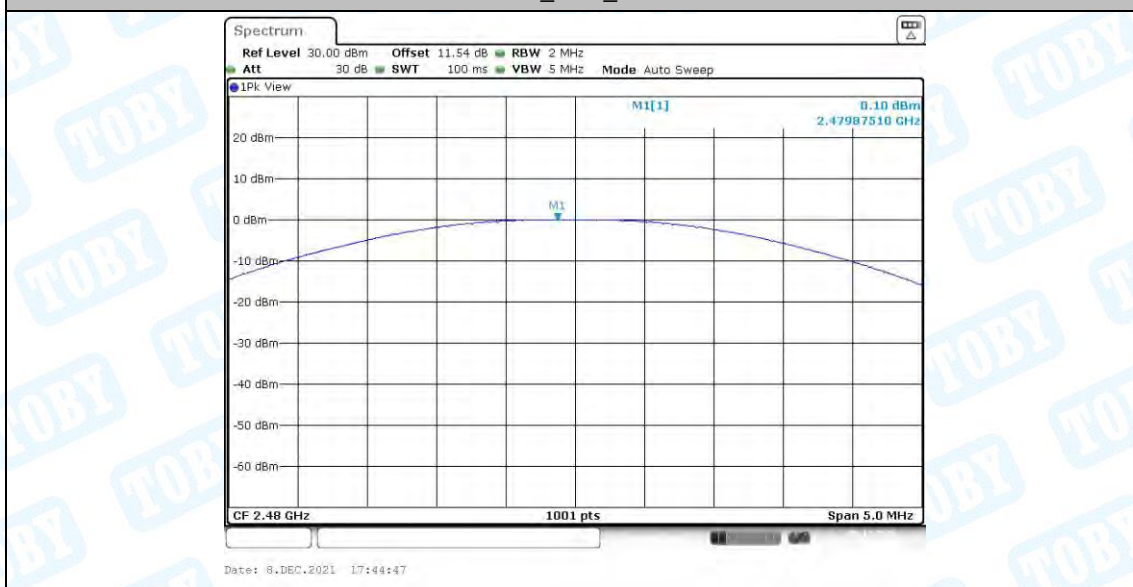
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



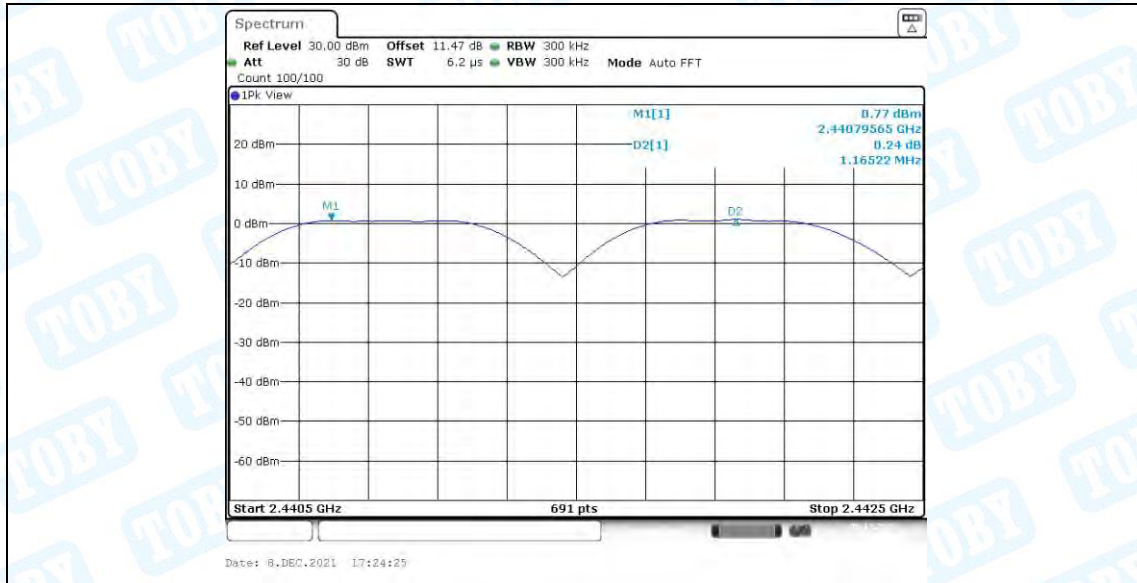
3DH5_Ant1_2480

4. Carrier frequency separation

4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.165	≥ 0.870	PASS
2DH5	Ant1	Hop	1.035	≥ 0.847	PASS
3DH5	Ant1	Hop	0.968	≥ 0.840	PASS

4.2.Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



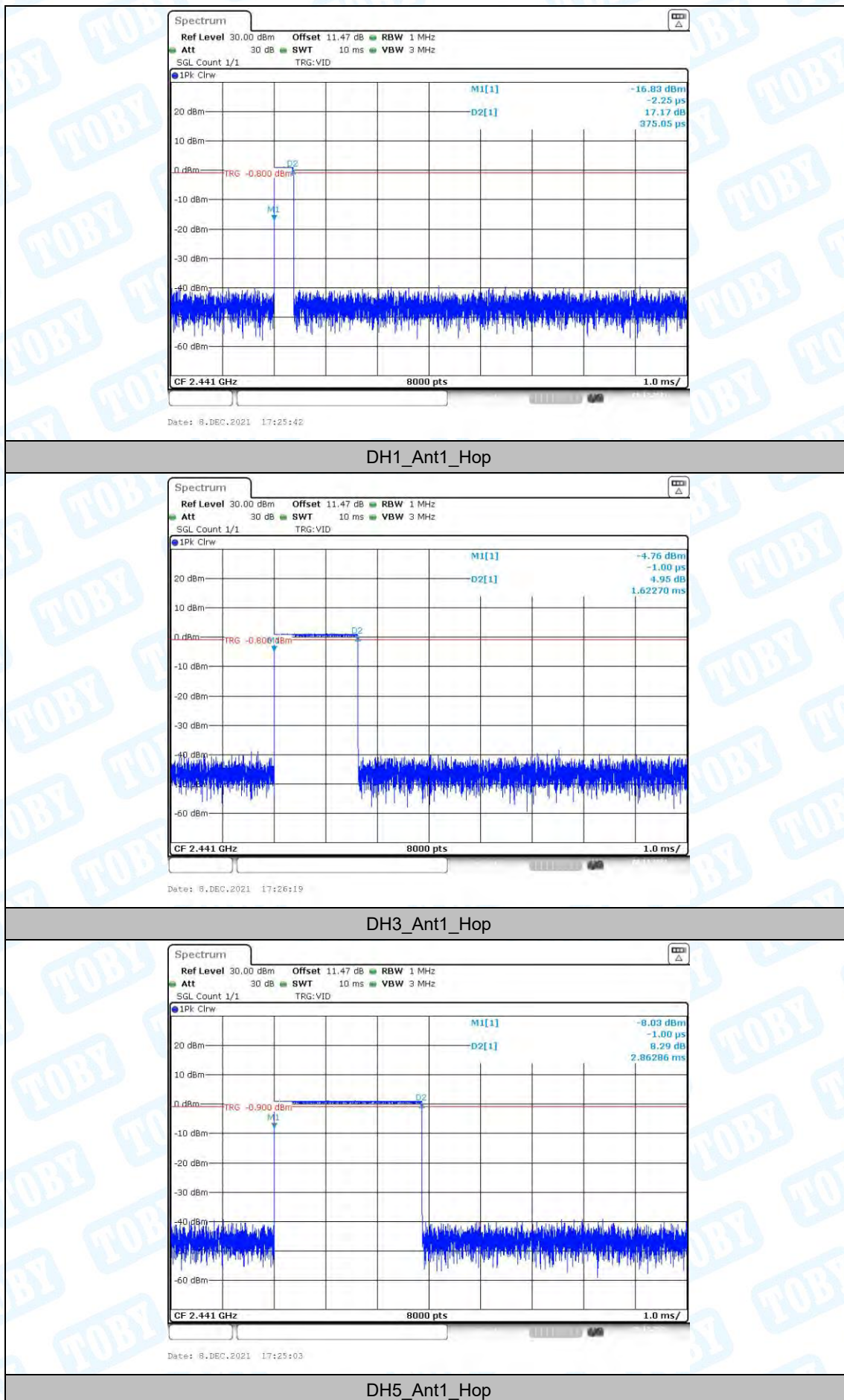
3DH5_Ant1_Hop

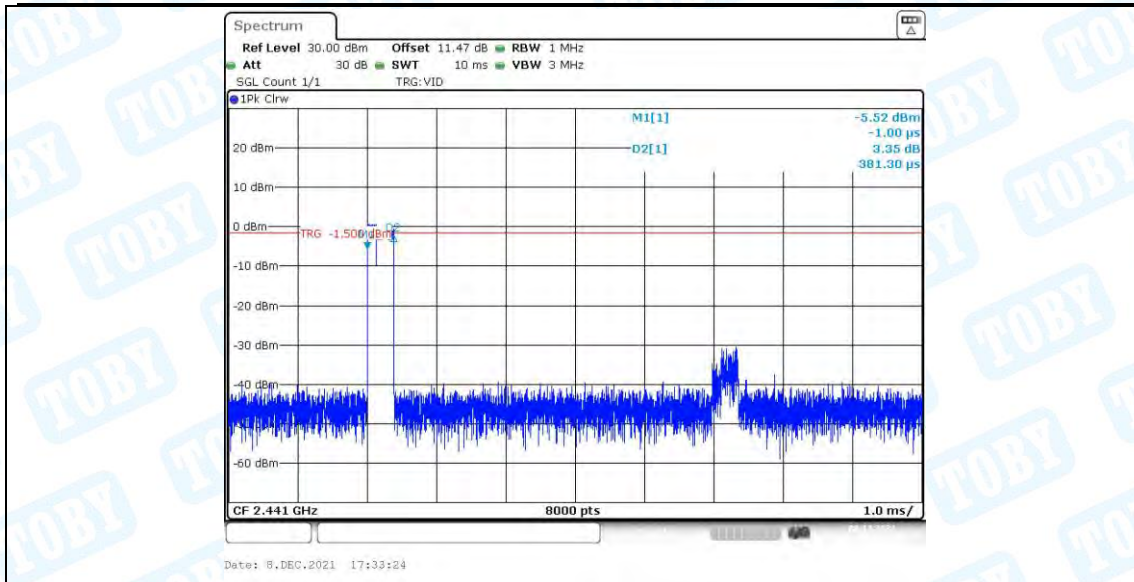
5. Time of occupancy

5.1. Test Result

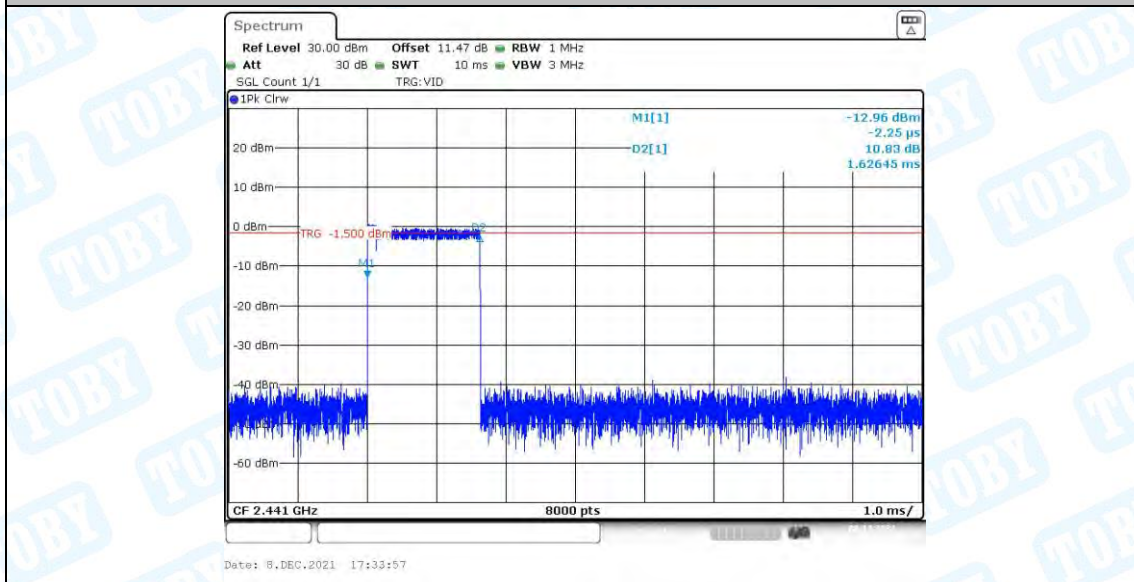
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.62	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.86	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS

5.2.Test Graphs

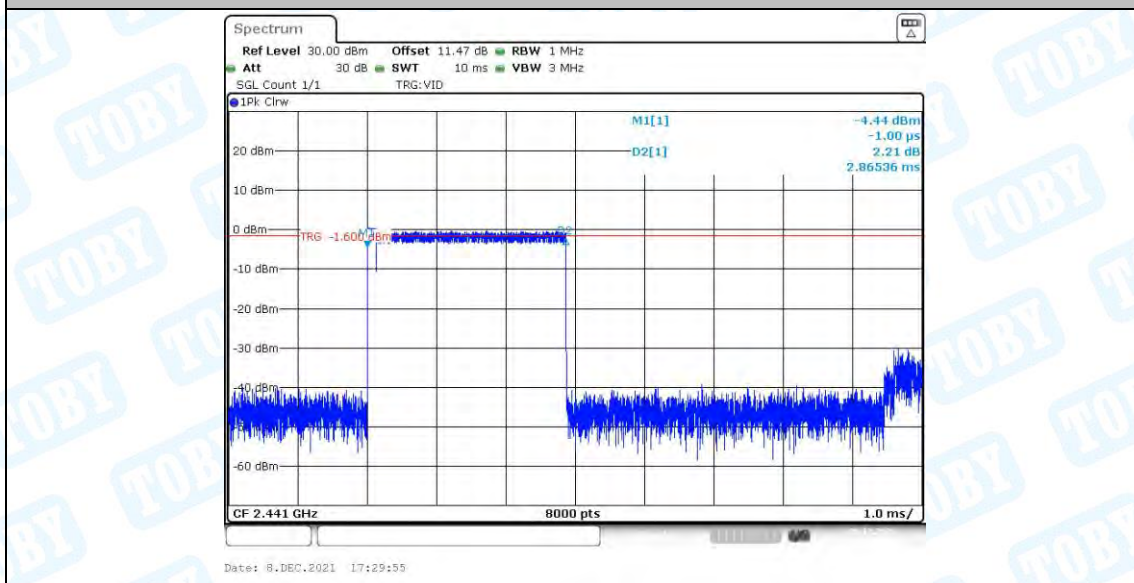




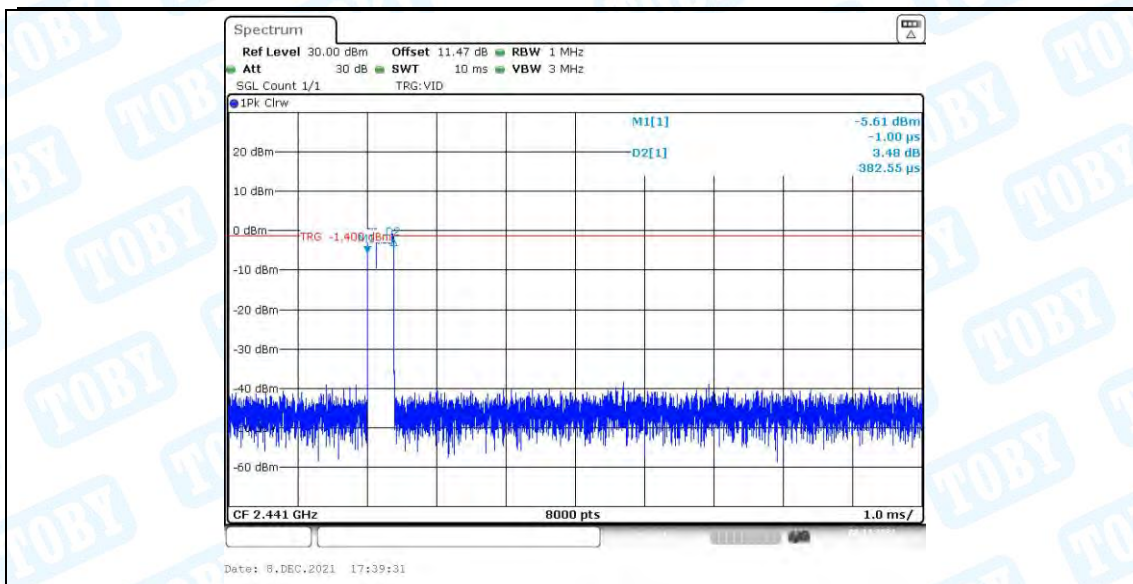
2DH1_Ant1_Hop



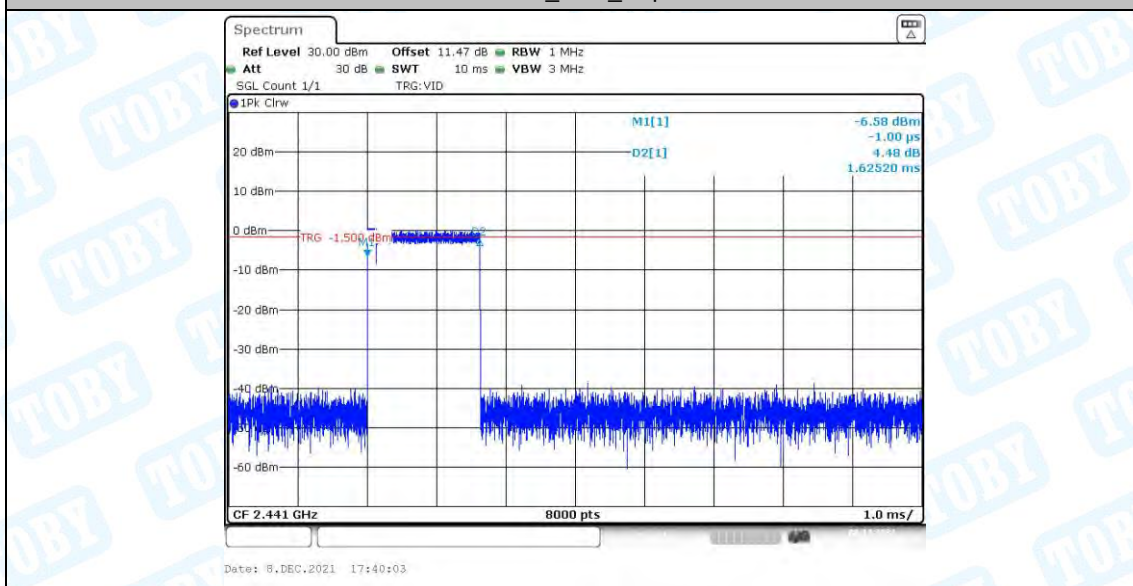
2DH3_Ant1_Hop



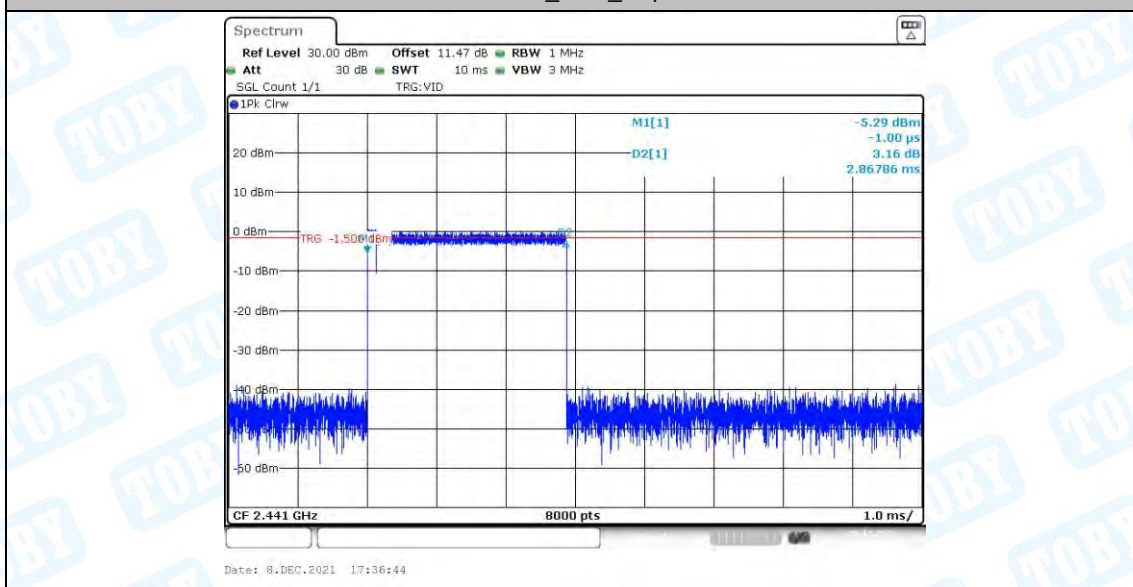
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop



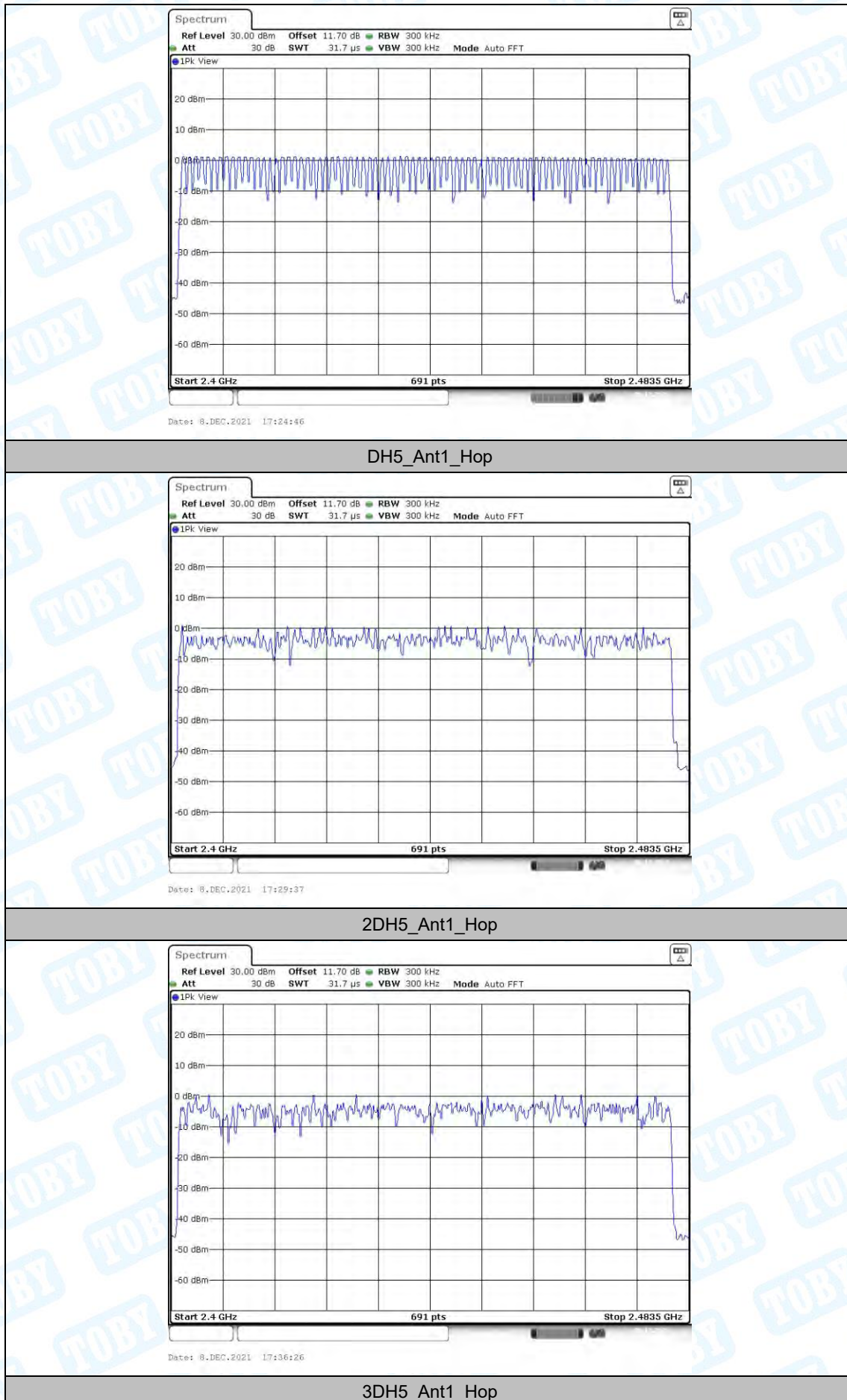
3DH5_Ant1_Hop

6. Number of hopping channels

6.1. Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

6.2.Test Graphs

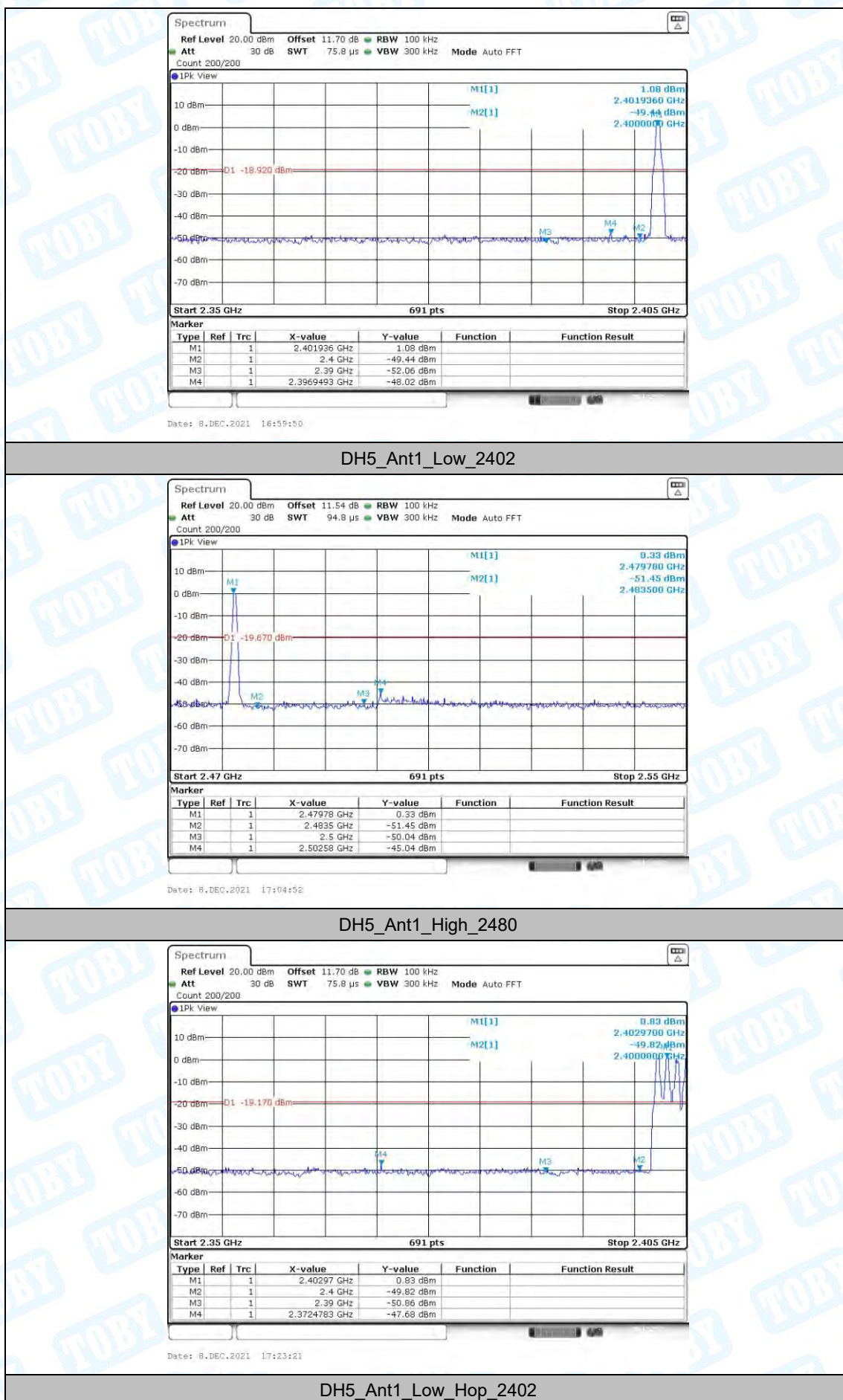


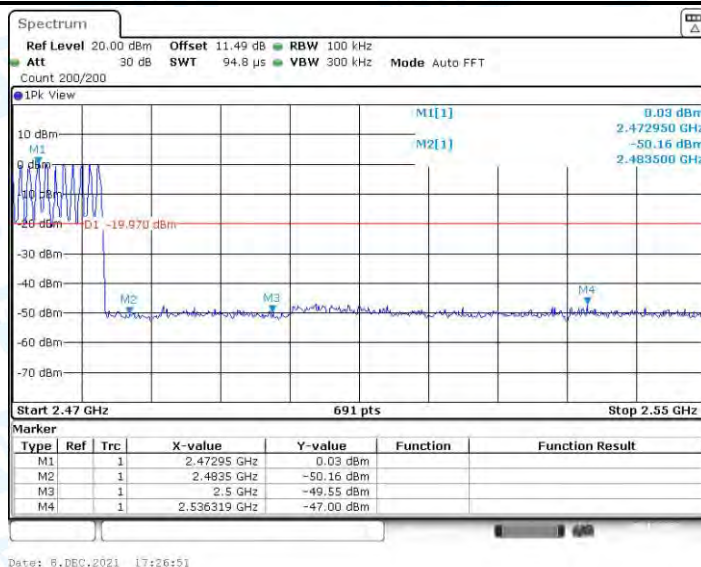
7. Band edge measurements

7.1. Test Result

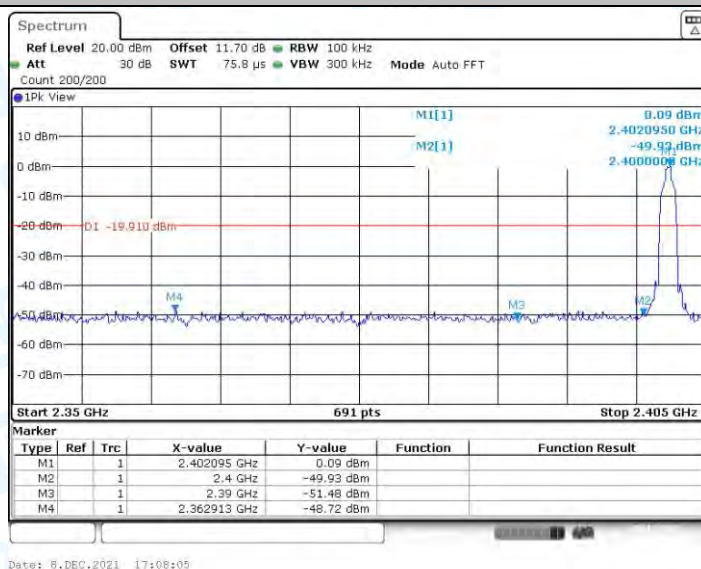
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.08	-48.02	≤ -18.92	PASS
		High	2480	0.33	-45.04	≤ -19.67	PASS
		Low	Hop_2402	0.83	-47.68	≤ -19.17	PASS
		High	Hop_2480	0.03	-47	≤ -19.97	PASS
2DH5	Ant1	Low	2402	0.09	-48.72	≤ -19.91	PASS
		High	2480	-0.24	-46.62	≤ -20.24	PASS
		Low	Hop_2402	-4.30	-47.65	≤ -24.3	PASS
		High	Hop_2480	-0.35	-45.13	≤ -20.35	PASS
3DH5	Ant1	Low	2402	-0.17	-47.97	≤ -20.17	PASS
		High	2480	-0.99	-46.5	≤ -20.99	PASS
		Low	Hop_2402	-3.64	-48.45	≤ -23.64	PASS
		High	Hop_2480	-2.11	-46.1	≤ -22.11	PASS

7.2. Test Graphs

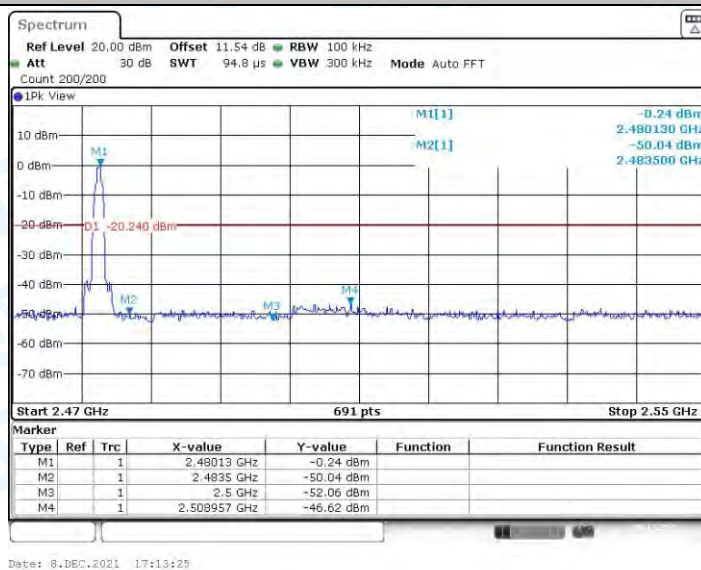




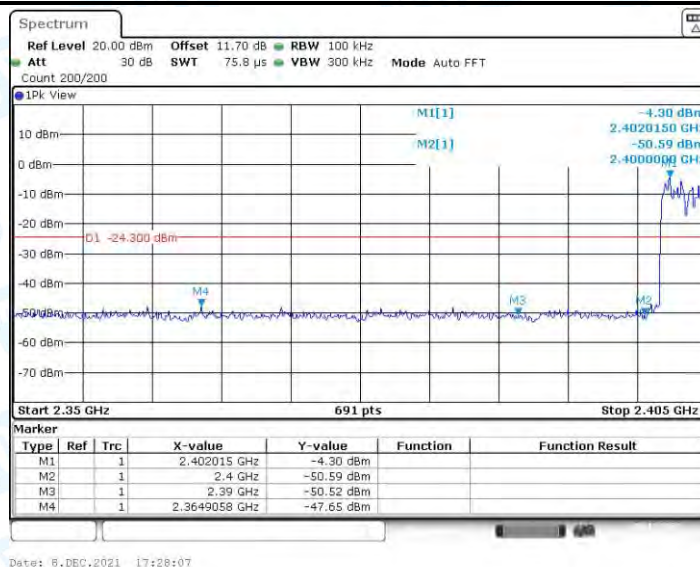
DH5_Ant1_High_Hop_2480



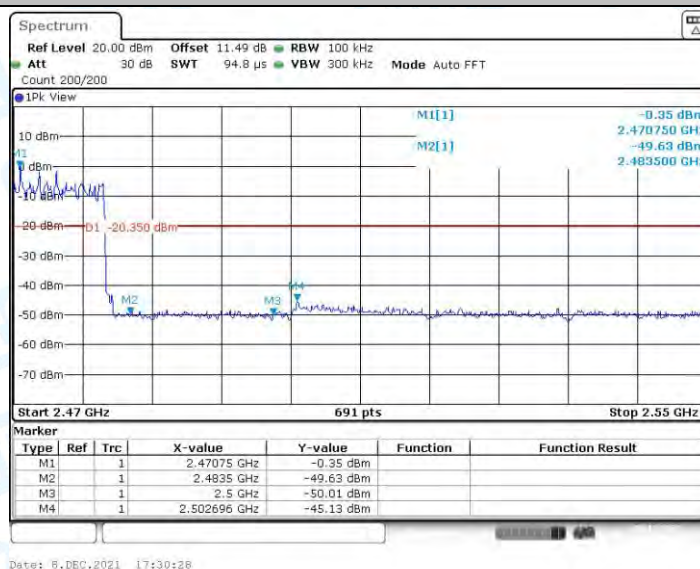
2DH5_Ant1_Low_2402



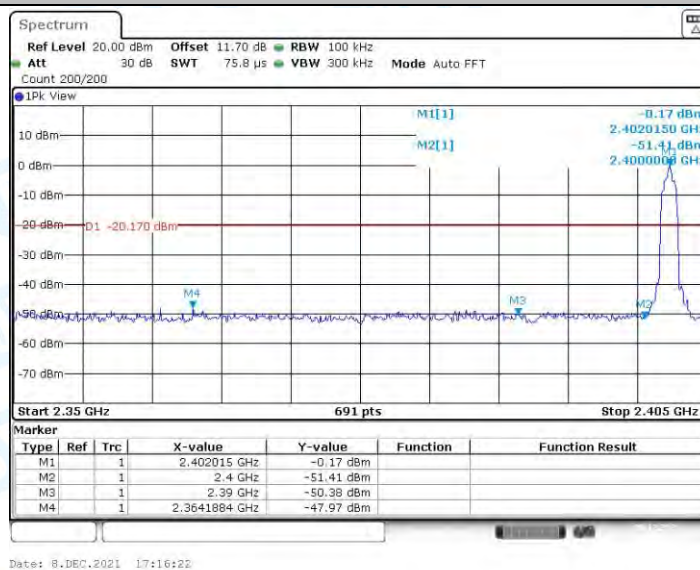
2DH5_Ant1_High_2480



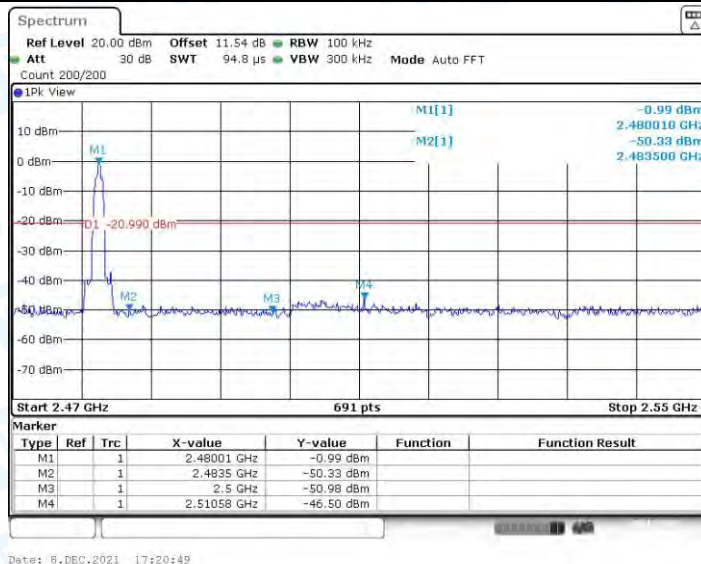
2DH5_Ant1_Low_Hop_2402



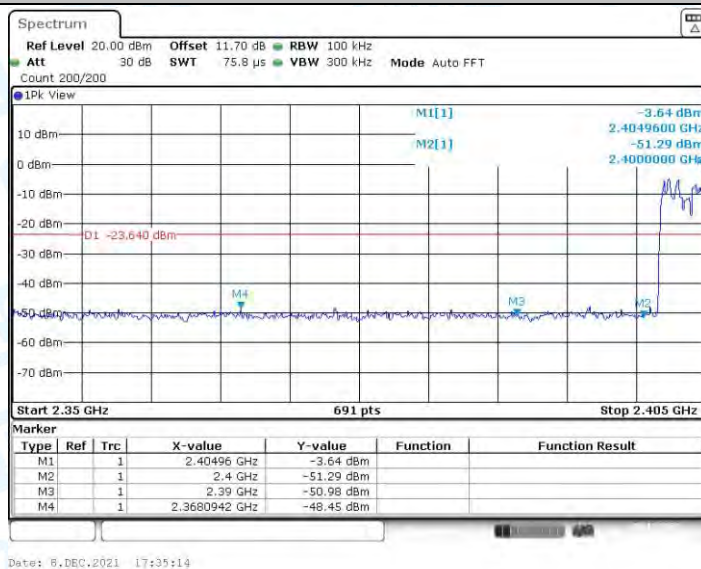
2DH5_Ant1_High_Hop_2480



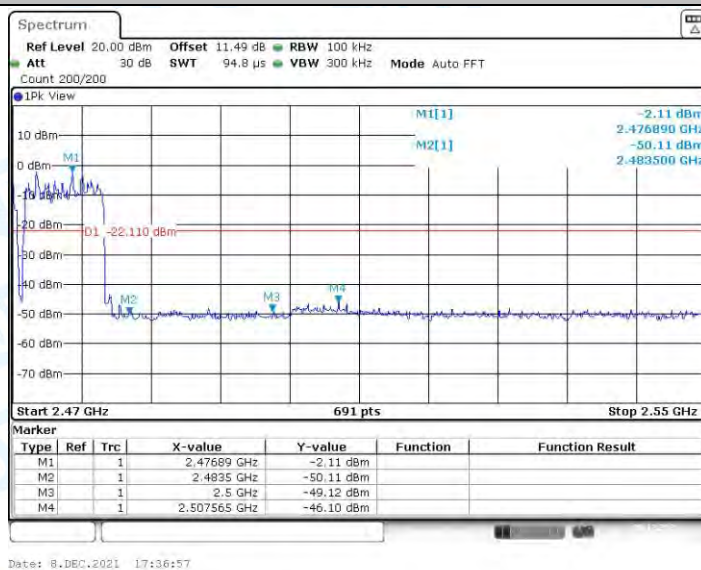
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



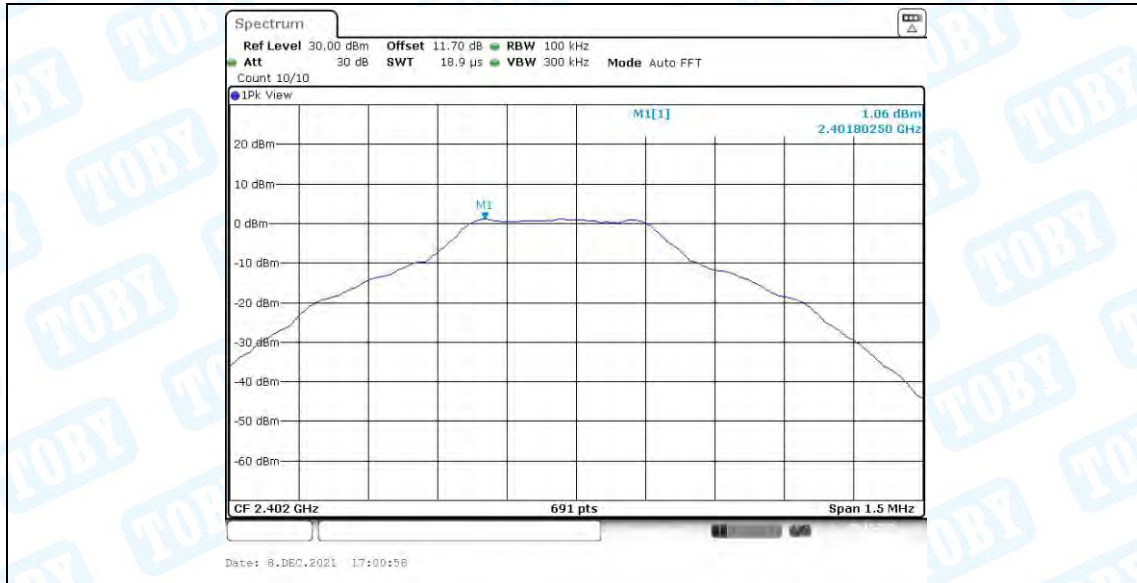
3DH5_Ant1_High_Hop_2480

8. Conducted Spurious Emission

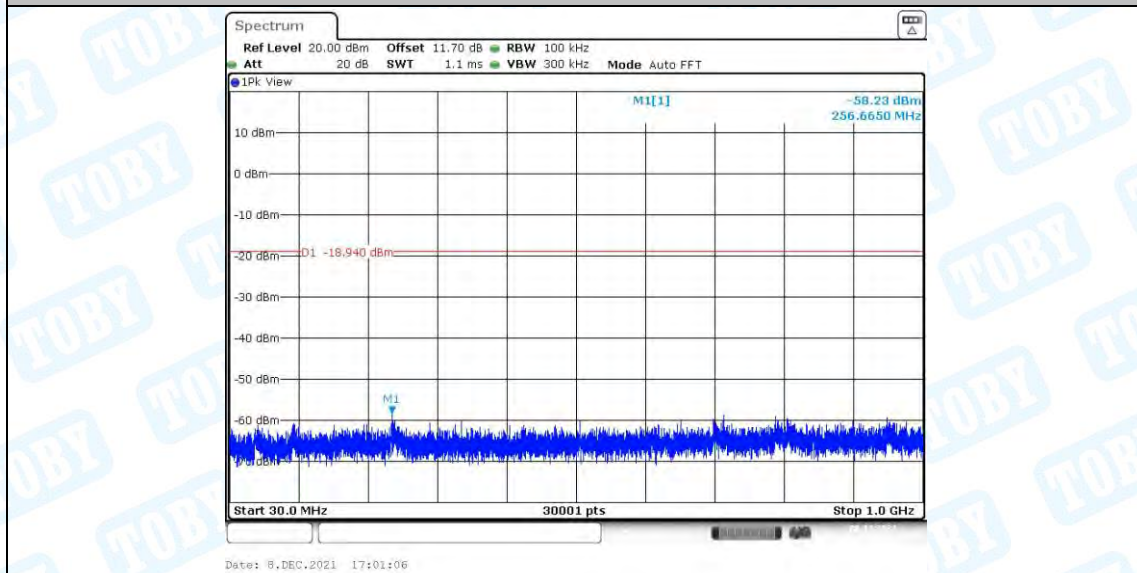
8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-58.23	≤-18.94	PASS
			1000~26500	1.06	-49.25	≤-18.94	PASS
		2441	Reference	0.74	0.74	---	PASS
			30~1000	0.74	-58.57	≤-19.26	PASS
			1000~26500	0.74	-49.78	≤-19.26	PASS
		2480	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-58.58	≤-19.72	PASS
			1000~26500	0.28	-49.67	≤-19.72	PASS
2DH5	Ant1	2402	Reference	0.50	0.50	---	PASS
			30~1000	0.50	-58.42	≤-19.5	PASS
			1000~26500	0.50	-49.36	≤-19.5	PASS
		2441	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-58.09	≤-19.72	PASS
			1000~26500	0.28	-49.01	≤-19.72	PASS
		2480	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-58.19	≤-20.23	PASS
			1000~26500	-0.23	-49.56	≤-20.23	PASS
3DH5	Ant1	2402	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-57.23	≤-19.44	PASS
			1000~26500	0.56	-48.48	≤-19.44	PASS
		2441	Reference	0.13	0.13	---	PASS
			30~1000	0.13	-58.78	≤-19.87	PASS
			1000~26500	0.13	-48.33	≤-19.87	PASS
		2480	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-57.51	≤-20.19	PASS
			1000~26500	-0.19	-49.35	≤-20.19	PASS

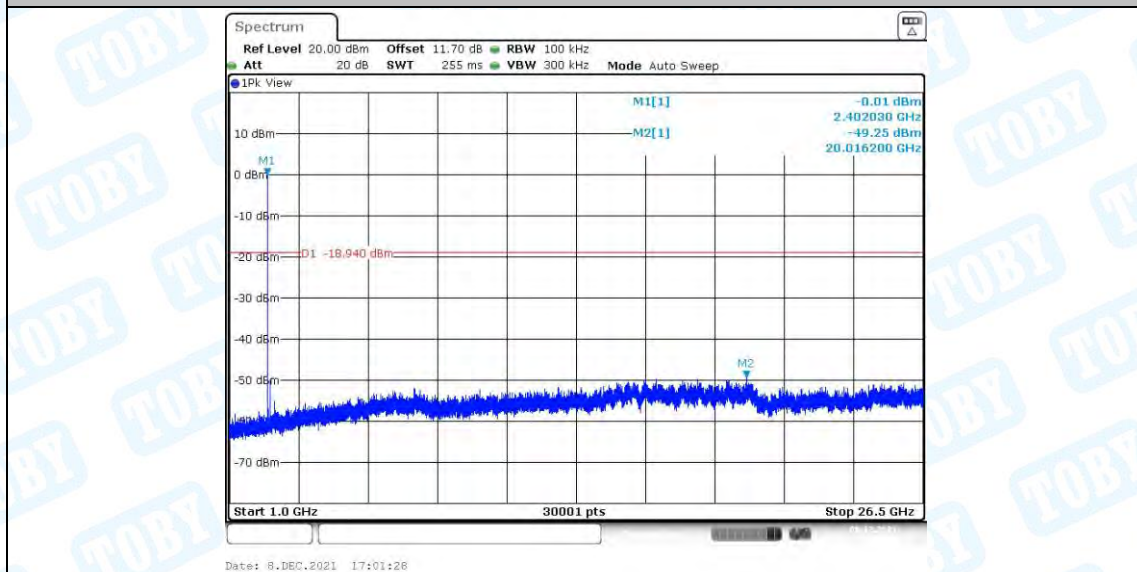
8.2.Test Graphs



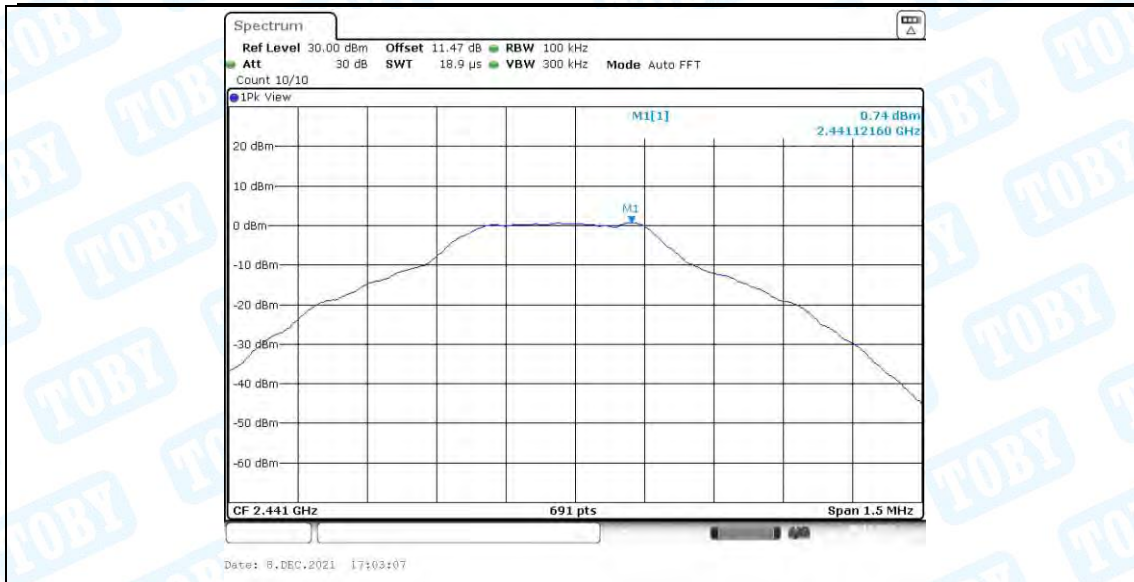
DH5_Ant1_2402_0~Reference



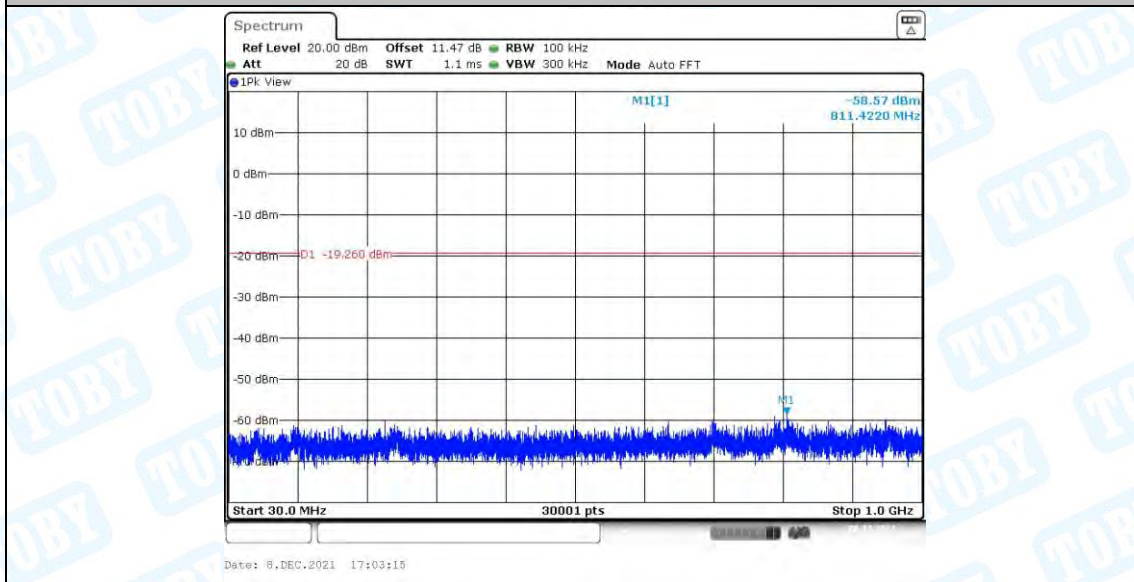
DH5_Ant1_2402_30~1000



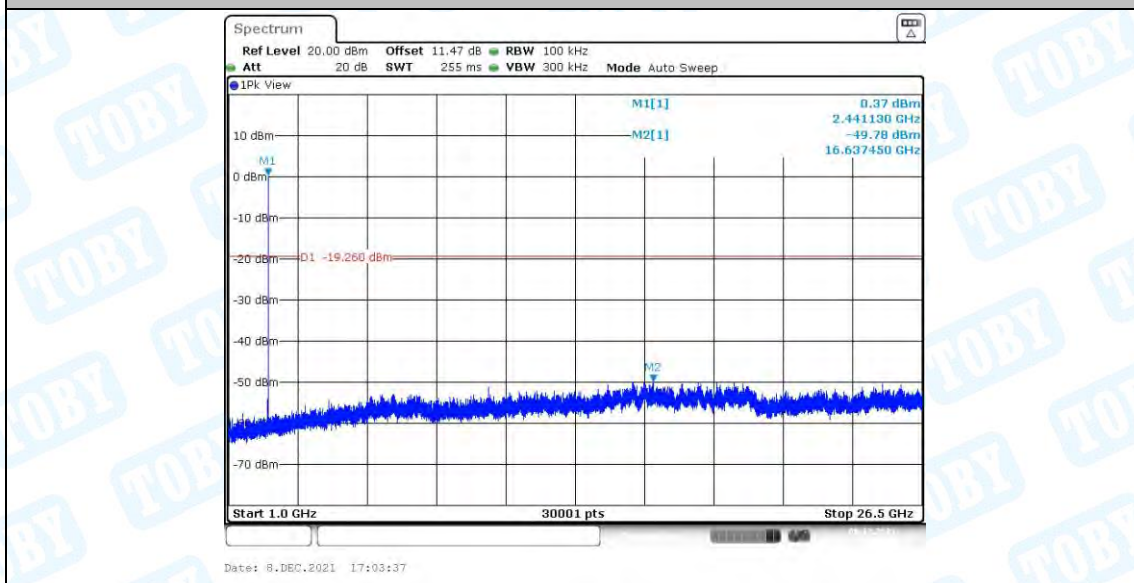
DH5_Ant1_2402_1000~26500



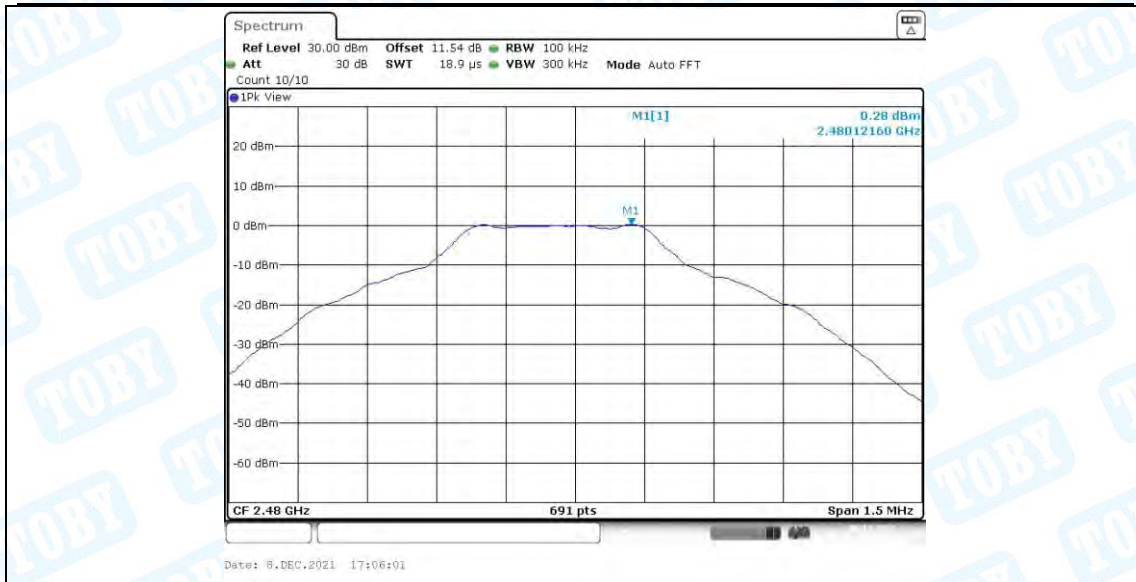
DH5_Ant1_2441_0~Reference



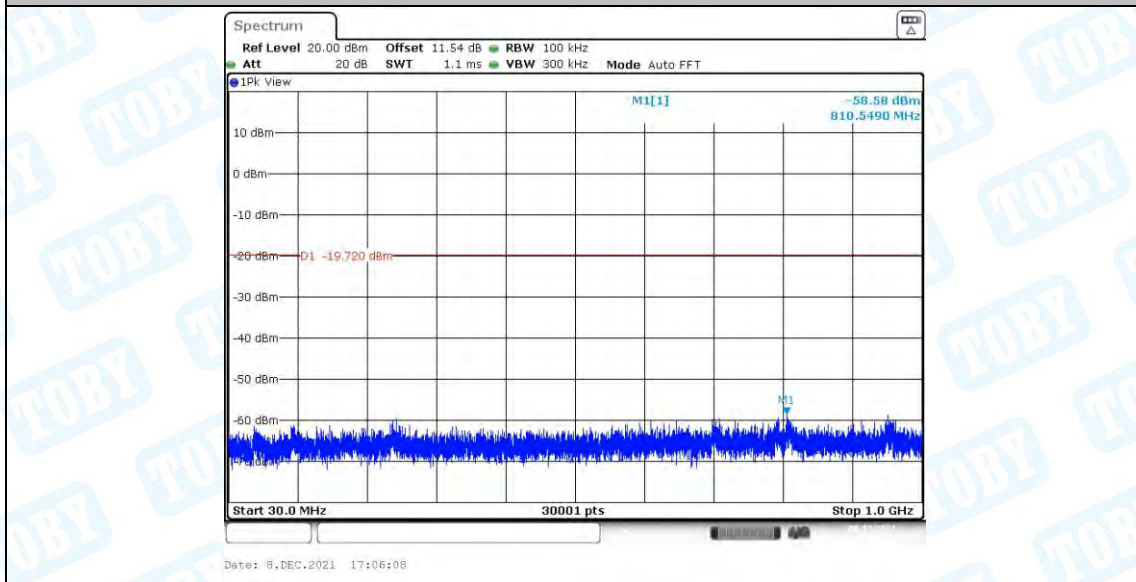
DH5_Ant1_2441_30~1000



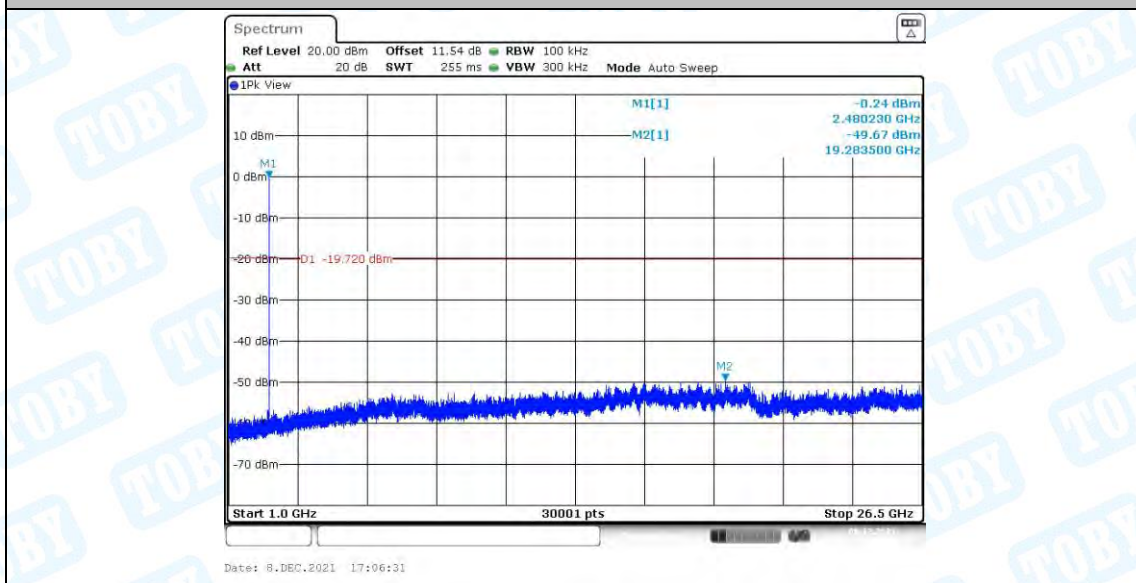
DH5_Ant1_2441_1000~26500



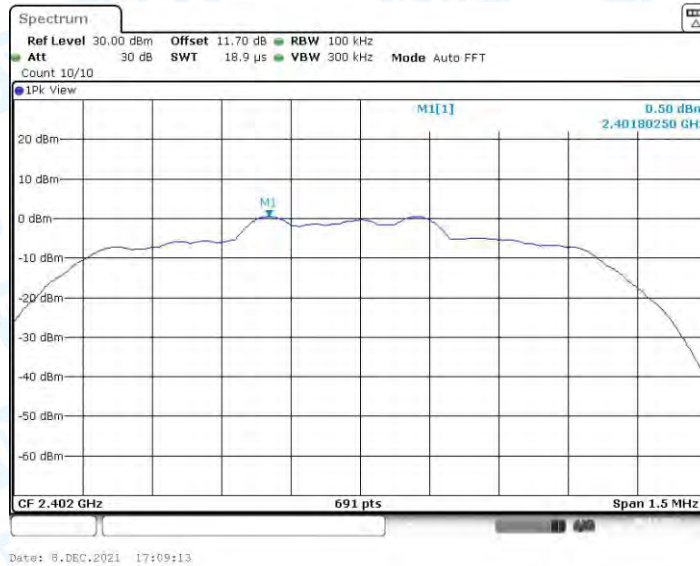
DH5_Ant1_2480_0~Reference



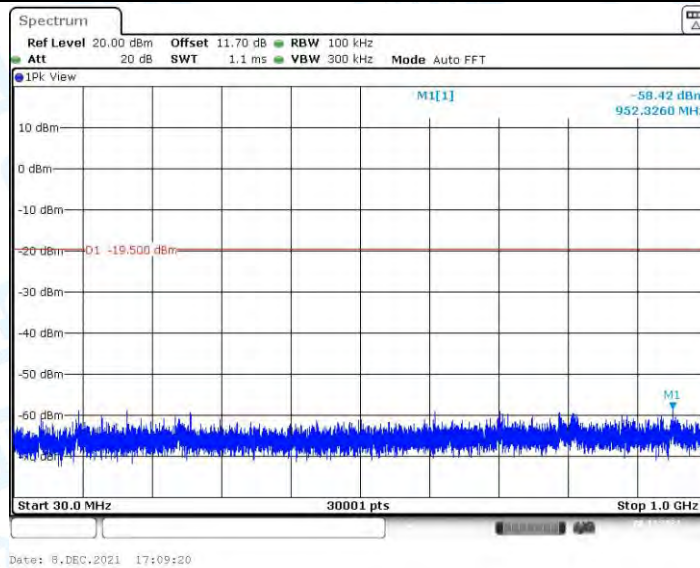
DH5_Ant1_2480_30~1000



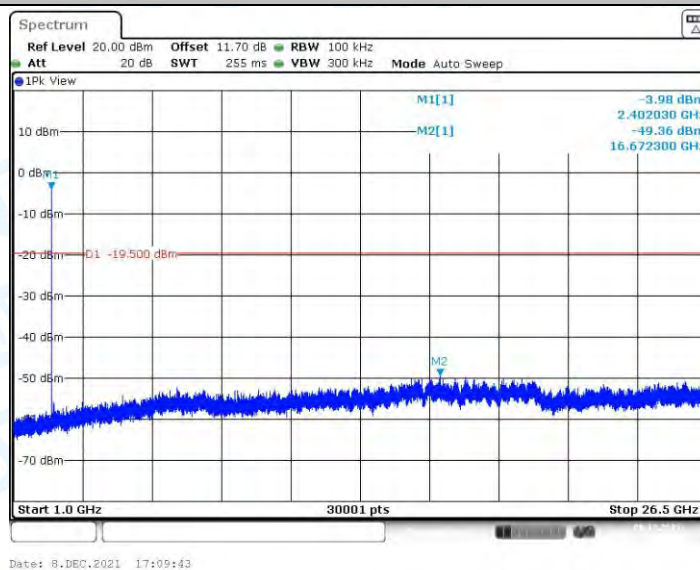
DH5_Ant1_2480_1000~26500



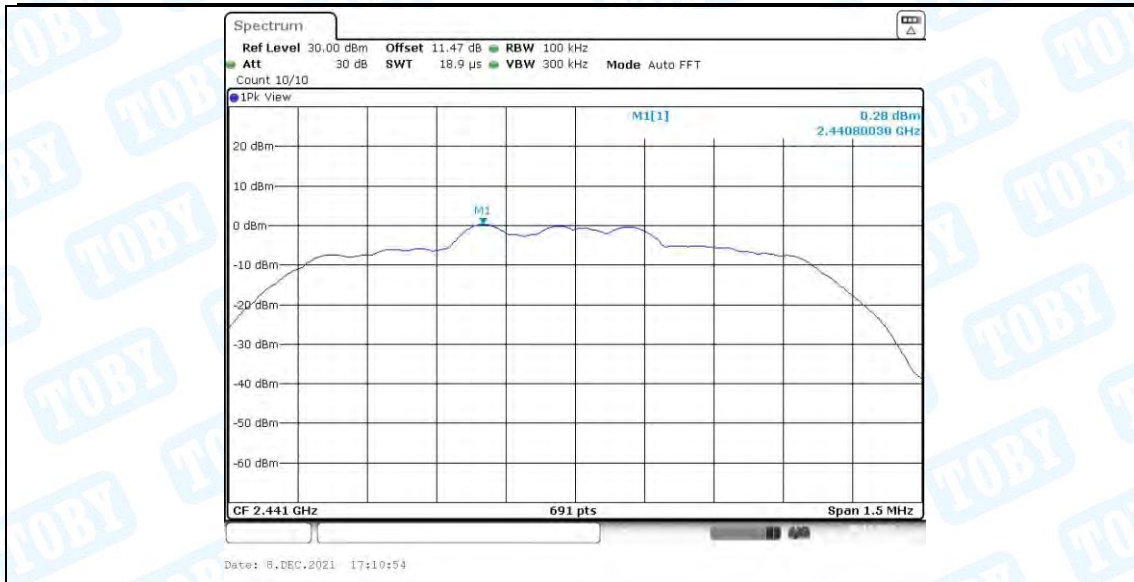
2DH5_Ant1_2402_0~Reference



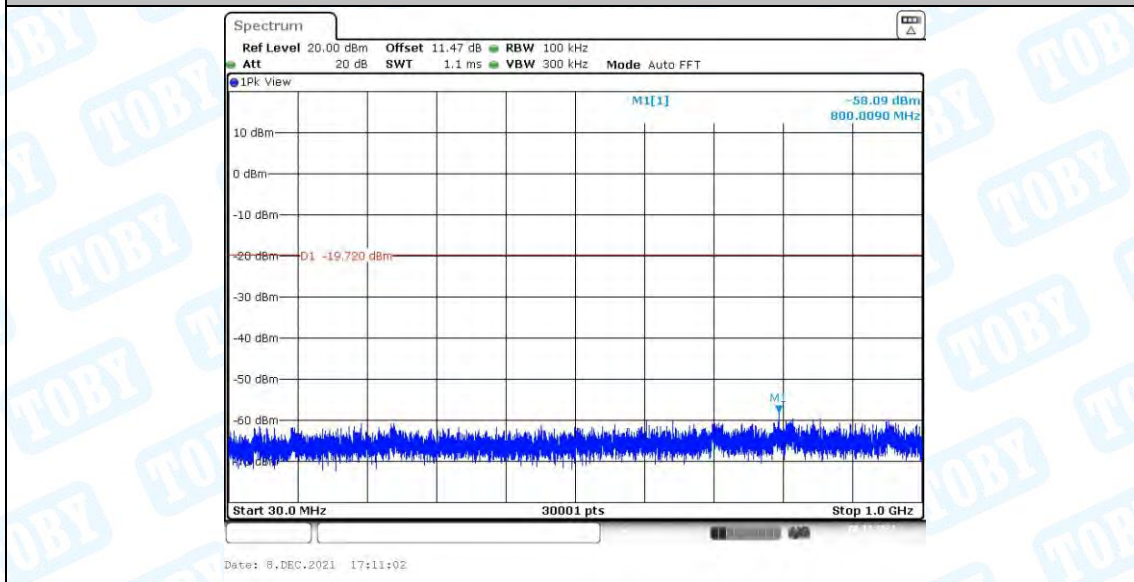
2DH5_Ant1_2402_30~1000



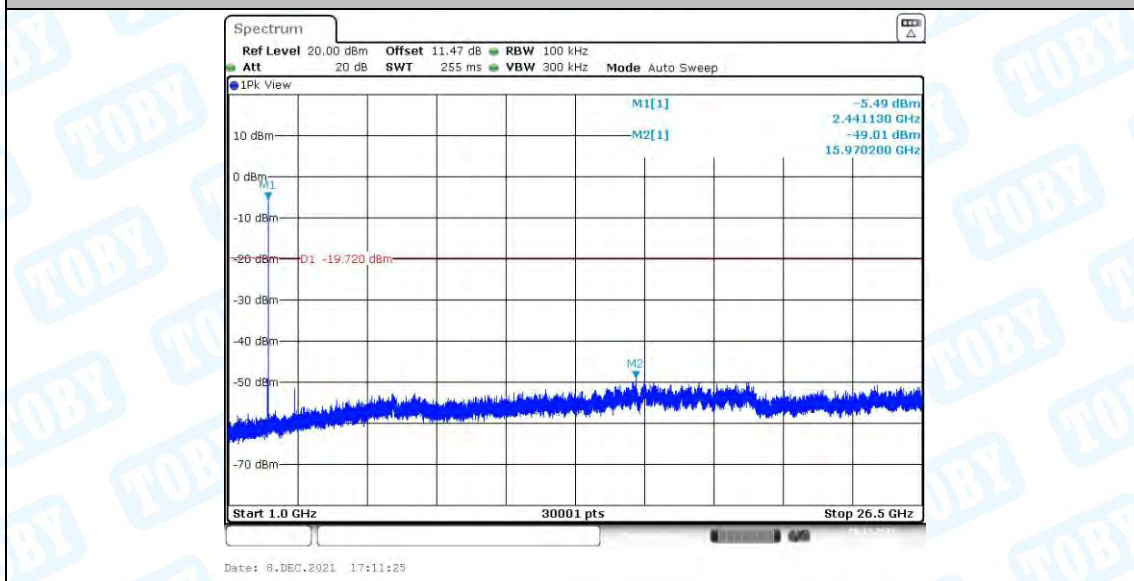
2DH5_Ant1_2402_1000~26500



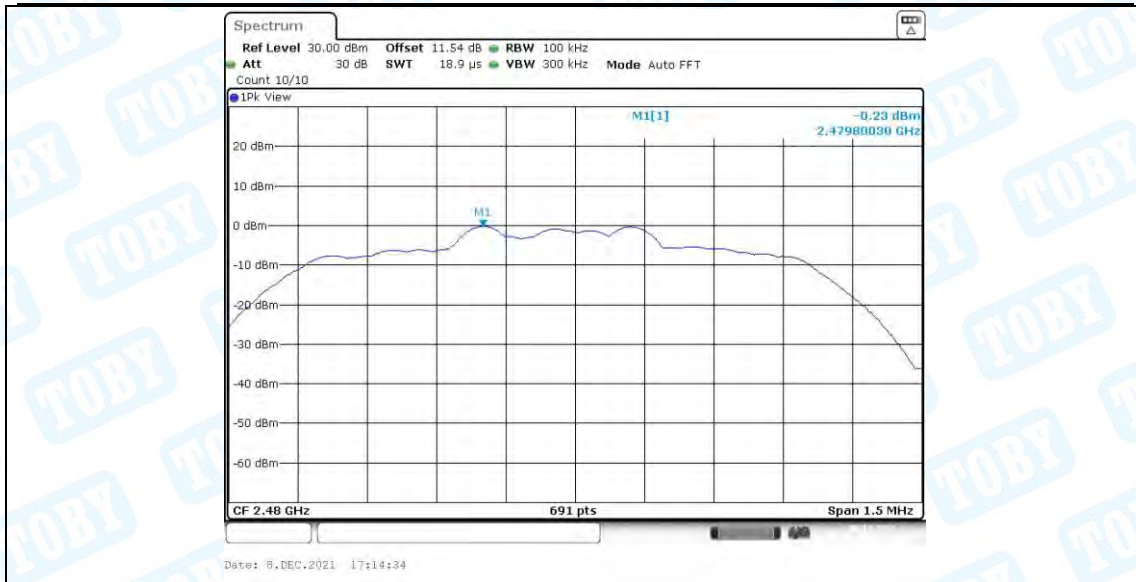
2DH5_Ant1_2441_0~Reference



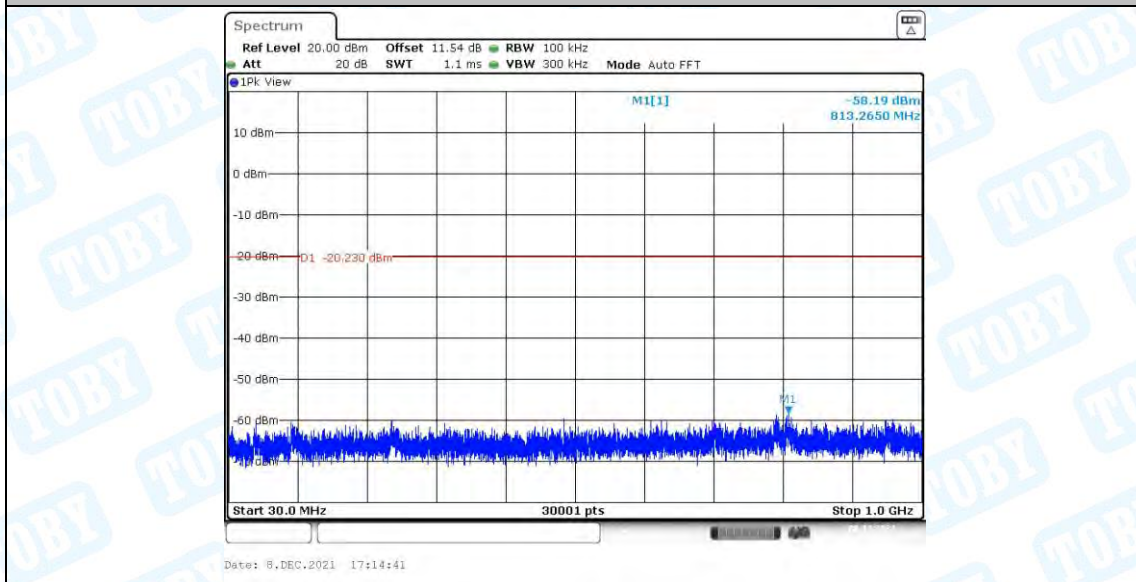
2DH5_Ant1_2441_30~1000



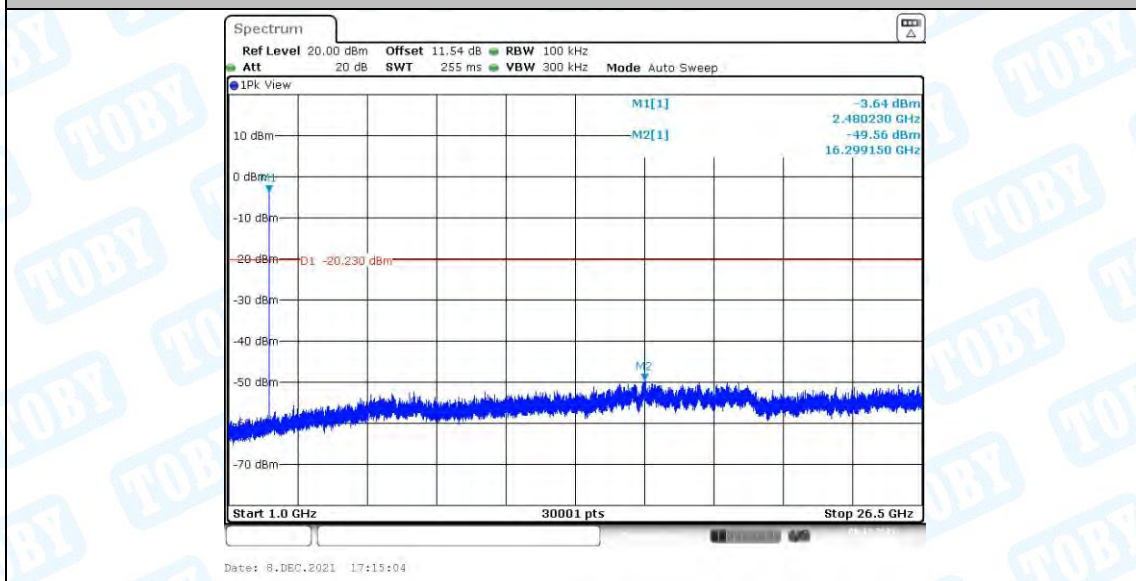
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



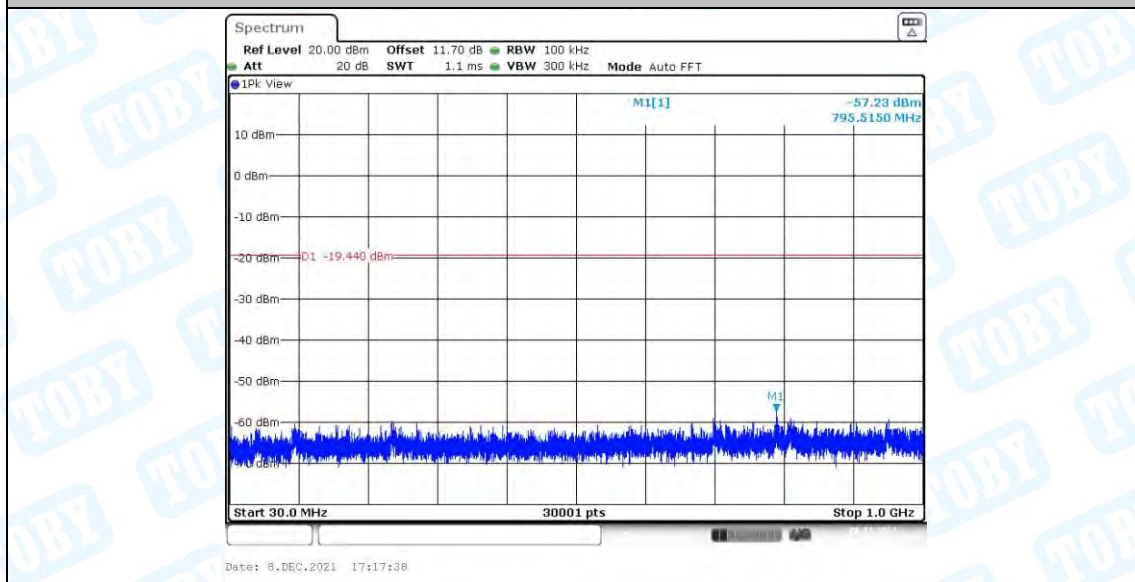
2DH5_Ant1_2480_30~1000



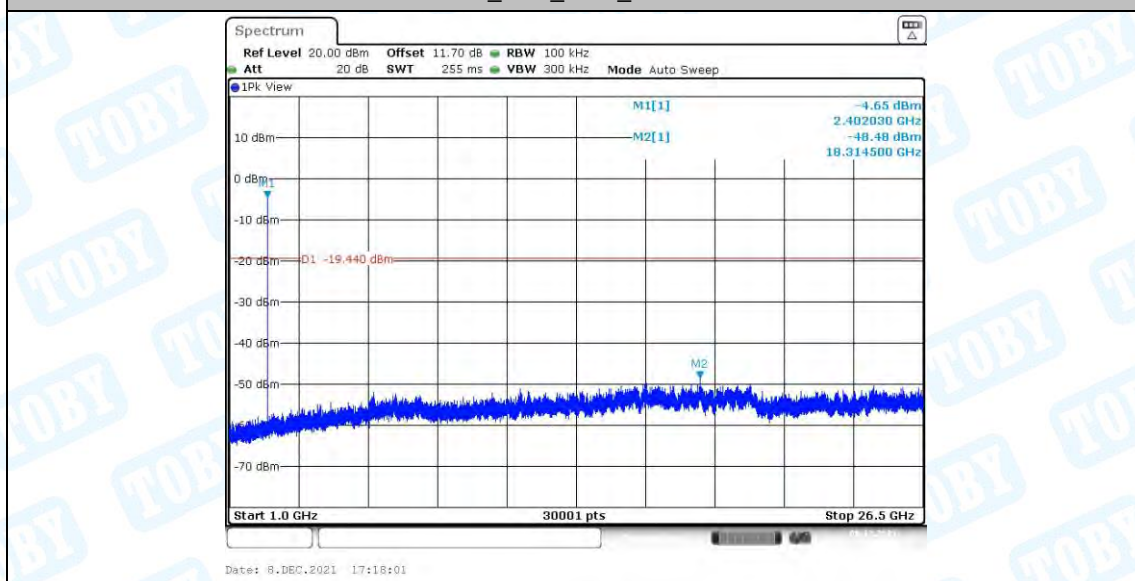
2DH5_Ant1_2480_1000~26500



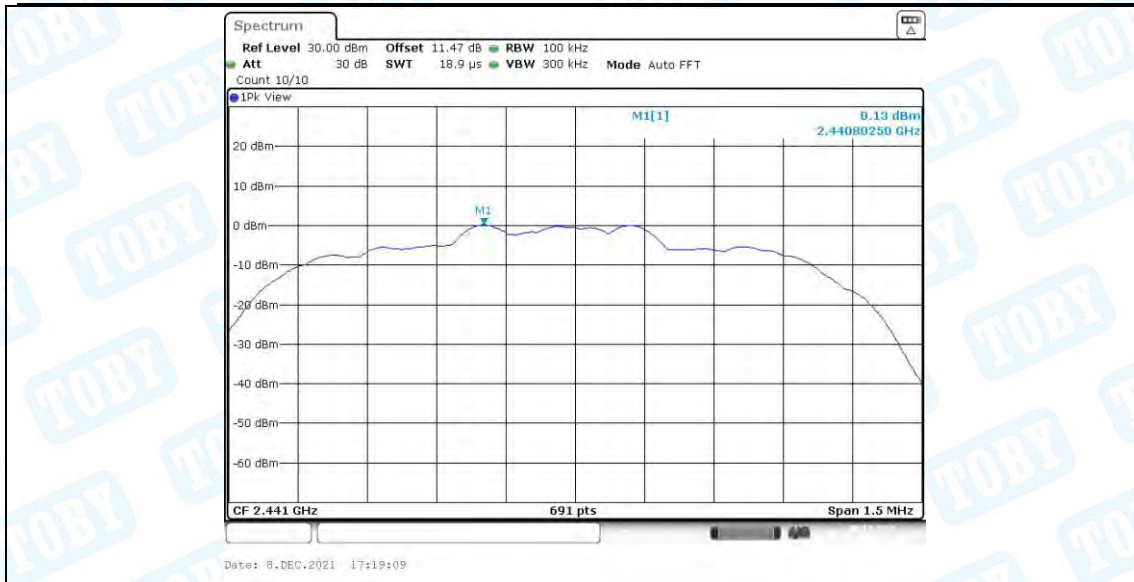
3DH5_Ant1_2402_0~Reference



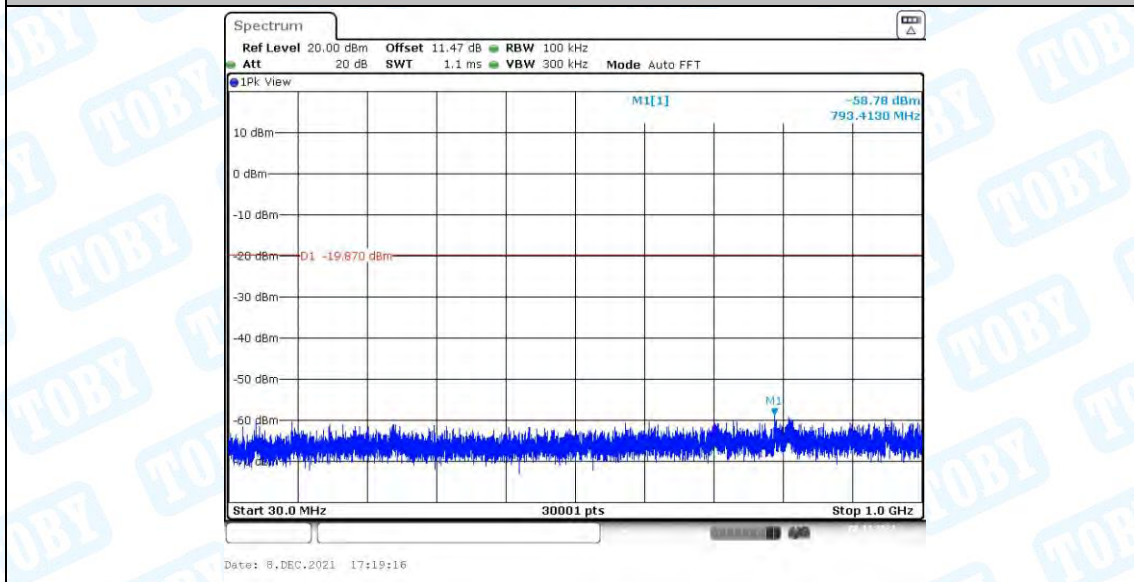
3DH5_Ant1_2402_30~1000



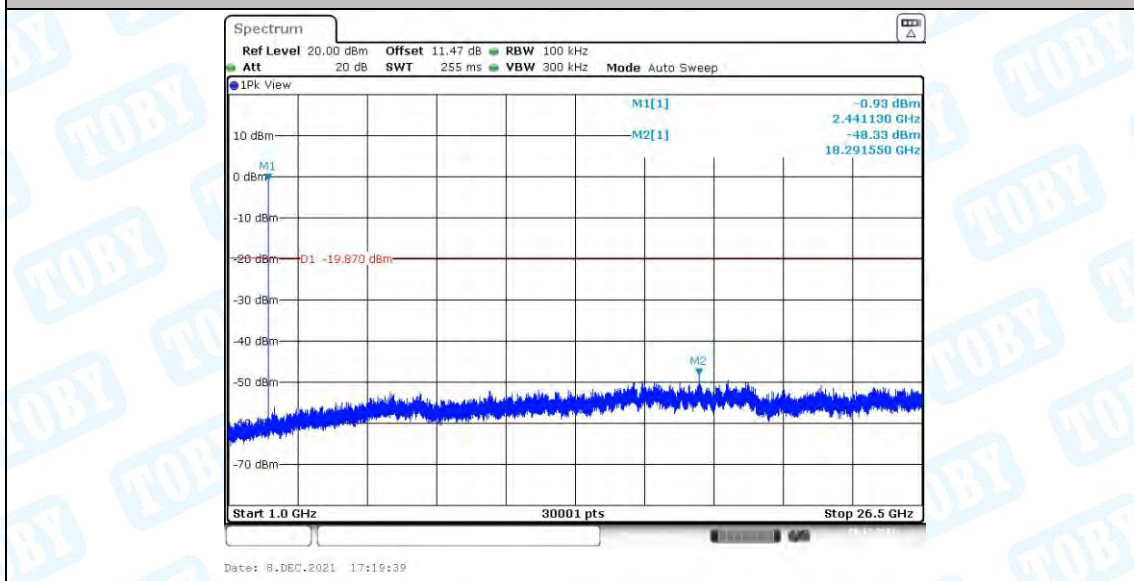
3DH5_Ant1_2402_1000~26500



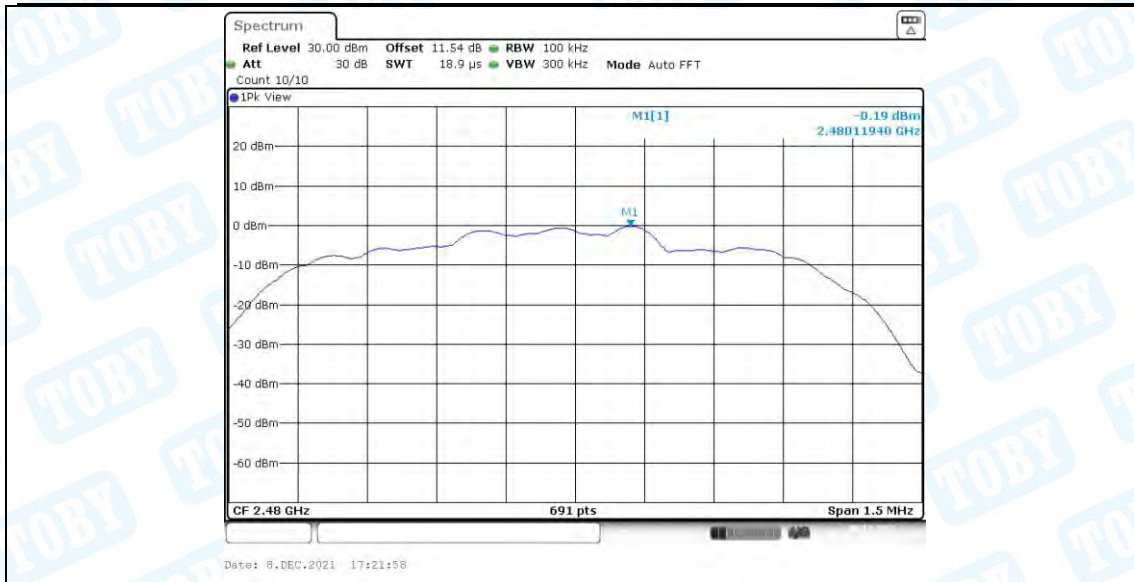
3DH5_Ant1_2441_0~Reference



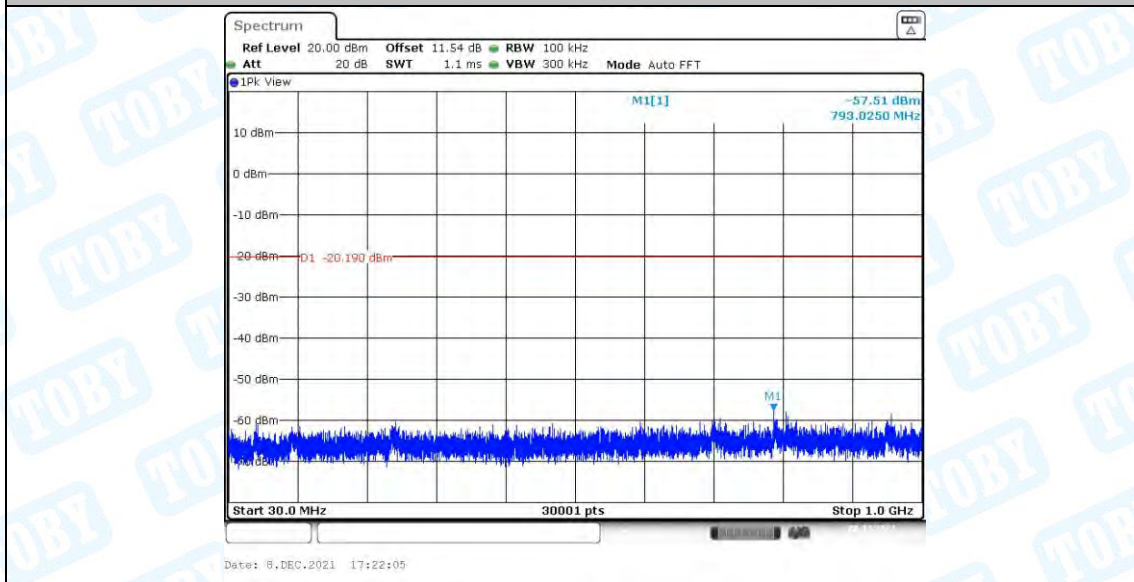
3DH5_Ant1_2441_30~1000



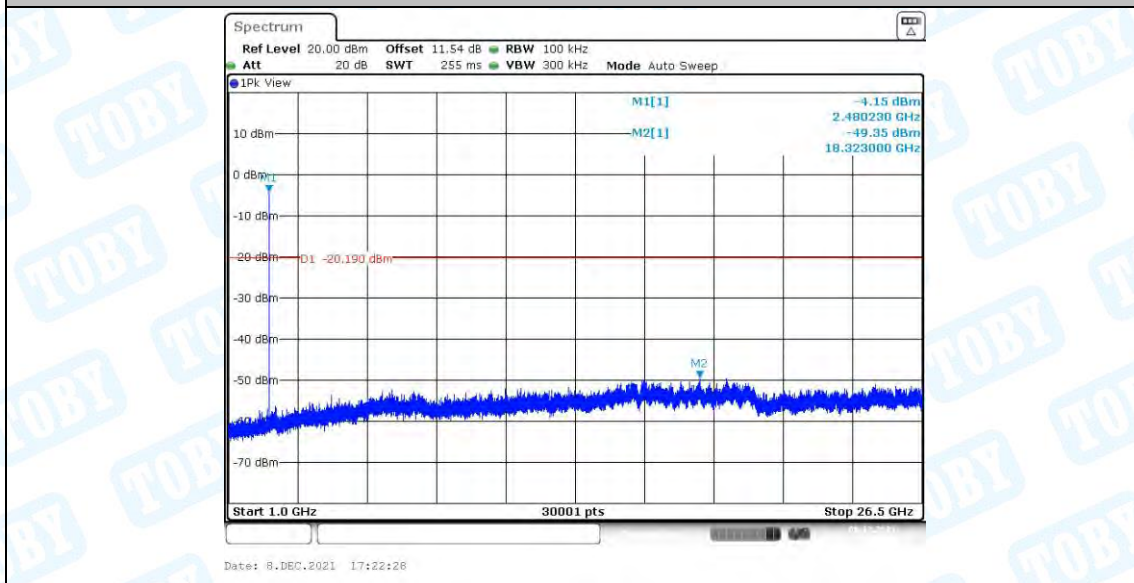
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

9. Emissions in Restricted Bands

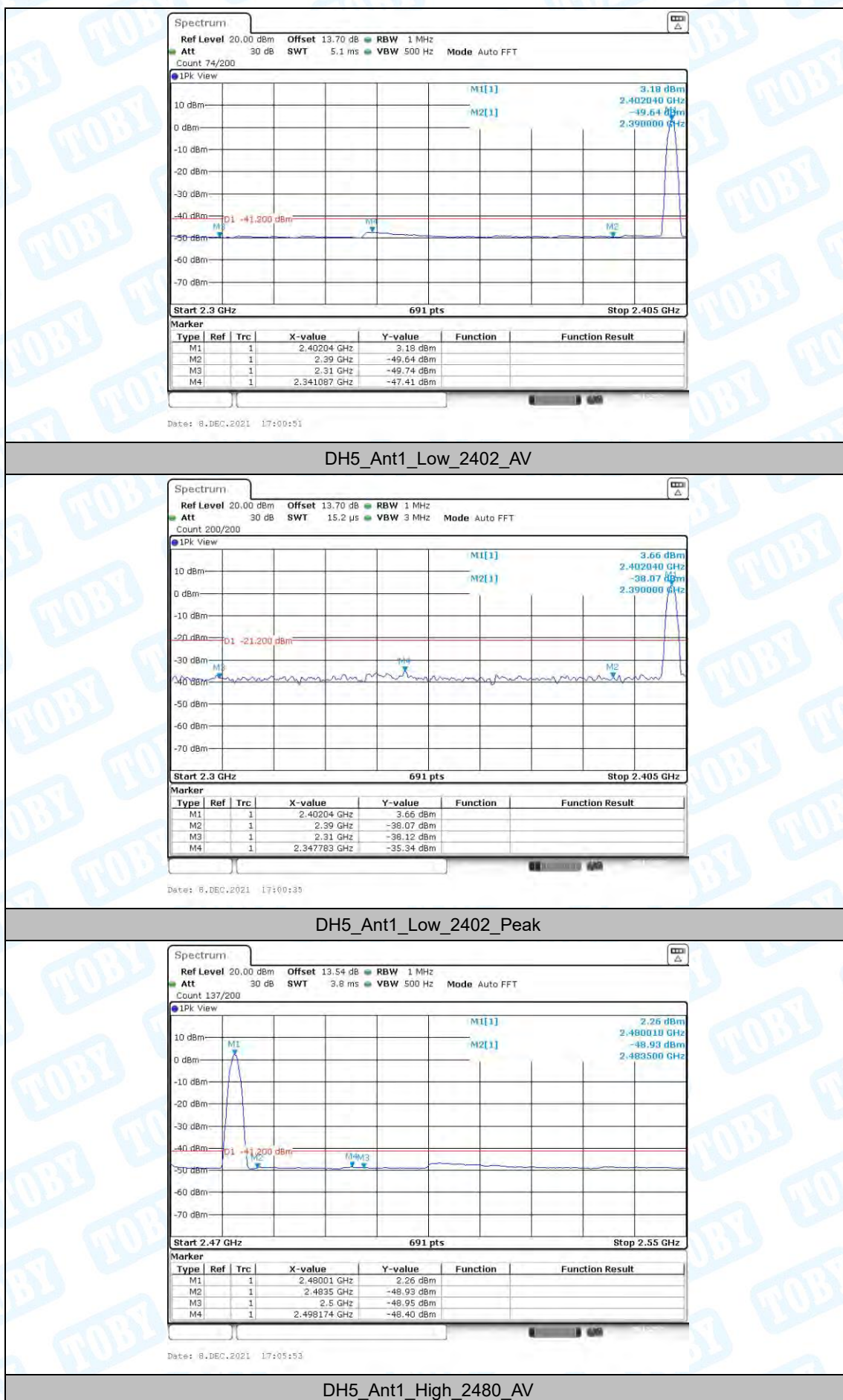
9.1. Test Result

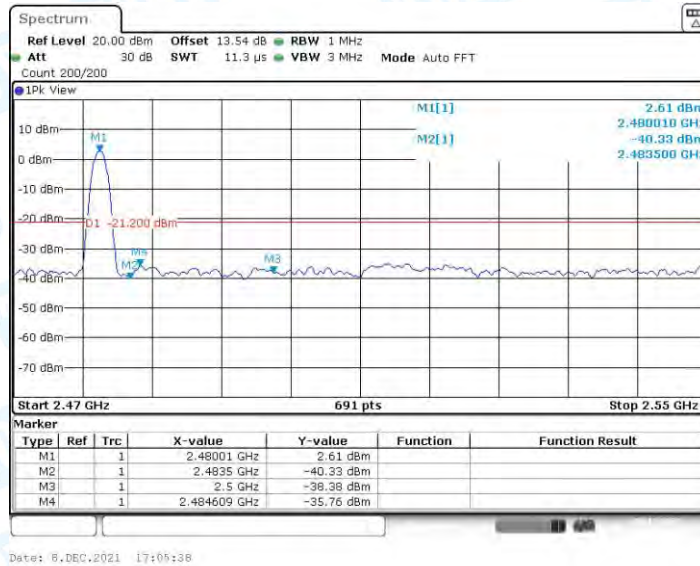
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.74	≤-41.20	PASS
				AV	2341.087	-47.41	≤-41.20	PASS
				AV	2390.000	-49.64	≤-41.20	PASS
				Peak	2310.000	-38.12	≤-21.20	PASS
				Peak	2347.783	-35.34	≤-21.20	PASS
				Peak	2390.000	-38.07	≤-21.20	PASS
		High	2480	AV	2483.500	-48.93	≤-41.20	PASS
				AV	2498.174	-48.4	≤-41.20	PASS
				AV	2500.000	-48.95	≤-41.20	PASS
				Peak	2483.500	-40.33	≤-21.20	PASS
				Peak	2484.609	-38.38	≤-21.20	PASS
				Peak	2500.000	-35.76	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.58	≤-41.20	PASS
				AV	2340.478	-47.45	≤-41.20	PASS
				AV	2390.000	-49.53	≤-41.20	PASS
				Peak	2310.000	-38.46	≤-21.20	PASS
				Peak	2346.565	-35.8	≤-21.20	PASS
				Peak	2390.000	-39.15	≤-21.20	PASS
		High	2480	AV	2483.500	-48.93	≤-41.20	PASS
				AV	2484.493	-48.48	≤-41.20	PASS
				AV	2500.000	-48.87	≤-41.20	PASS
				Peak	2483.500	-39.00	≤-21.20	PASS
				Peak	2491.913	-38.44	≤-21.20	PASS
				Peak	2500.000	-36.29	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.78	≤-41.20	PASS
				AV	2340.935	-47.41	≤-41.20	PASS
				AV	2390.000	-49.47	≤-41.20	PASS
				Peak	2310.000	-39.03	≤-21.20	PASS
				Peak	2341.543	-35.01	≤-21.20	PASS
				Peak	2390.000	-39.46	≤-21.20	PASS
		High	2480	AV	2483.500	-48.88	≤-41.20	PASS
				AV	2497.478	-48.4	≤-41.20	PASS
				AV	2500.000	-48.83	≤-41.20	PASS
				Peak	2483.500	-39.60	≤-21.20	PASS
				Peak	2493.420	-37.44	≤-21.20	PASS
				Peak	2500.000	-35.43	≤-21.20	PASS

Note:

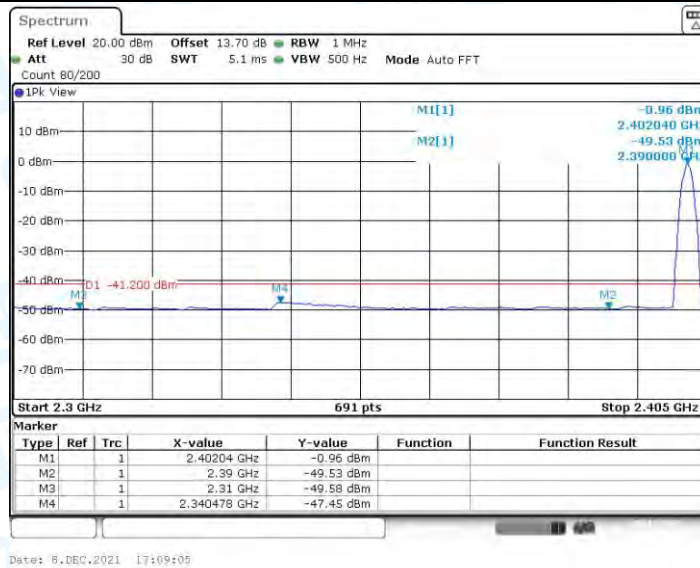
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

10.2. Test Graphs

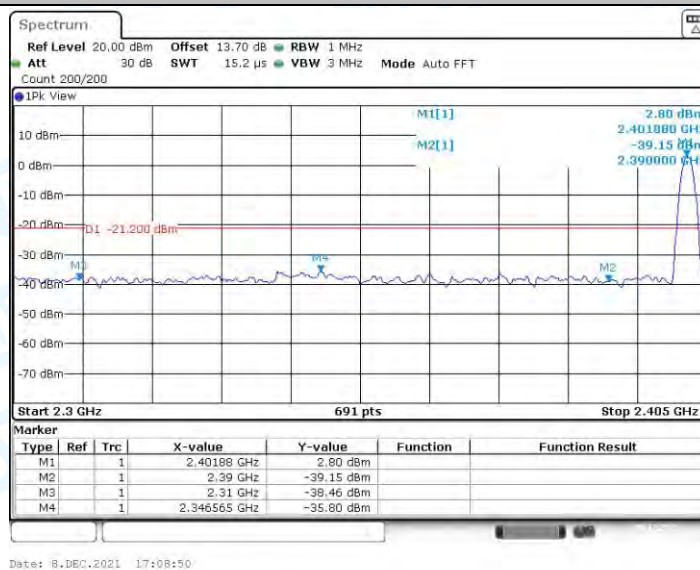




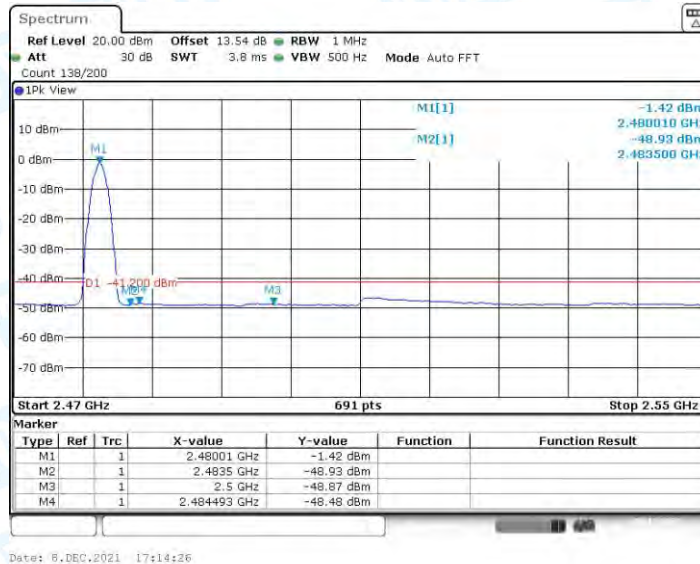
DH5_Ant1_High_2480_Peak



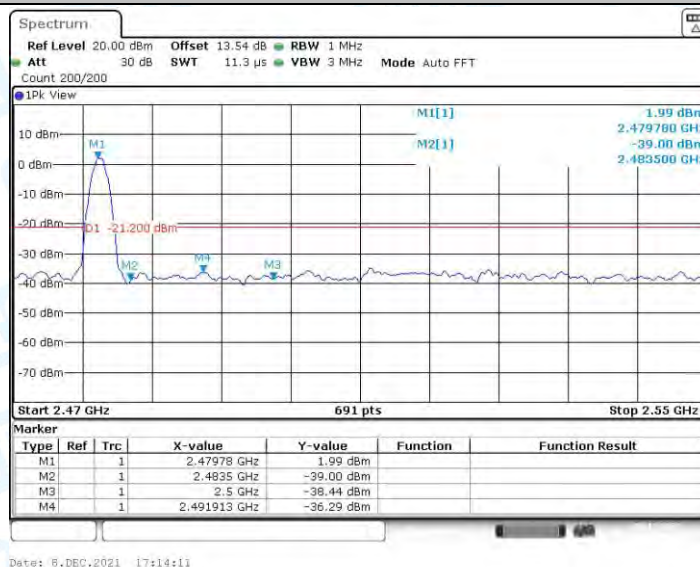
2DH5_Ant1_Low_2402_AV



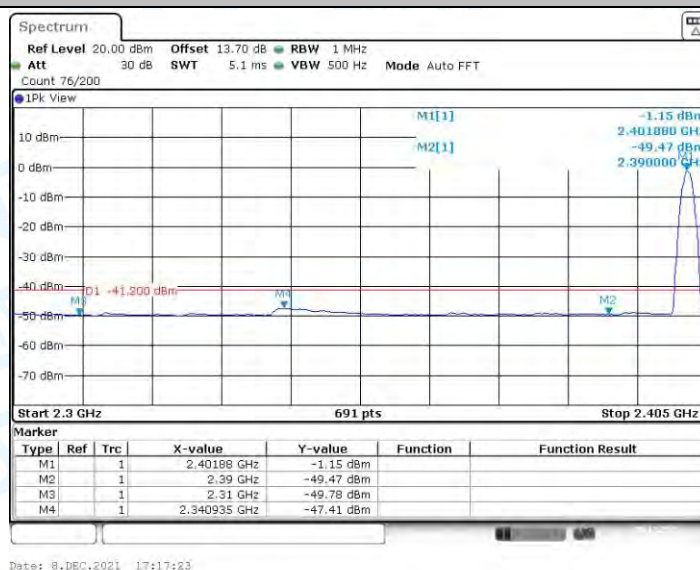
2DH5_Ant1_Low_2402_Peak



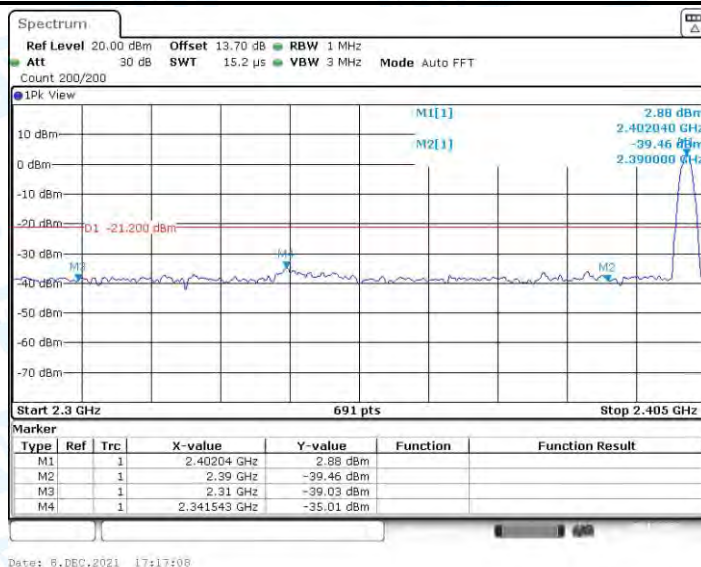
2DH5_Ant1_High_2480_AV



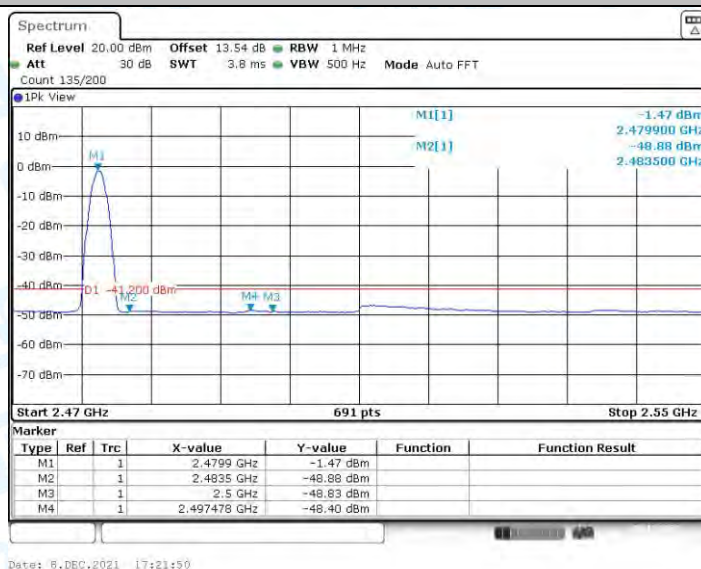
2DH5_Ant1_High_2480_Peak



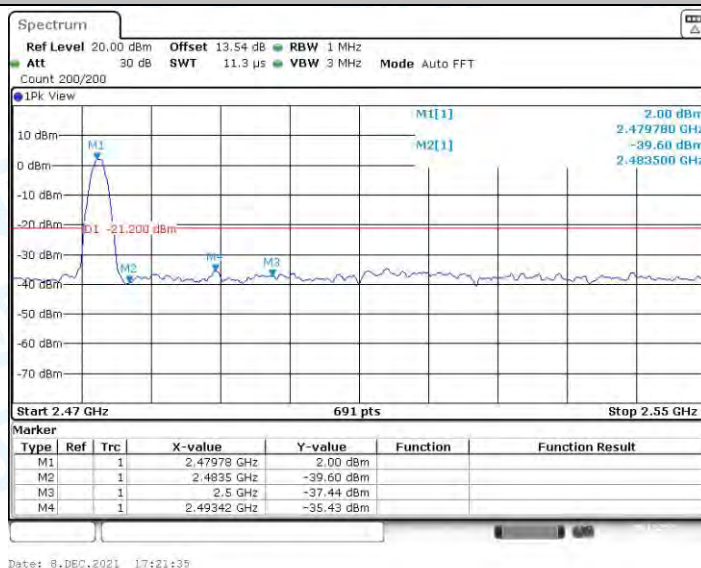
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

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