

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

General Description of EUT	
Product Name:	11.6"Tablet
Test Model:	100043279
Sample ID:	20210528-22-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	HeJingchang
Note: For a more detailed features description, please refer to the report TB-RF180813	

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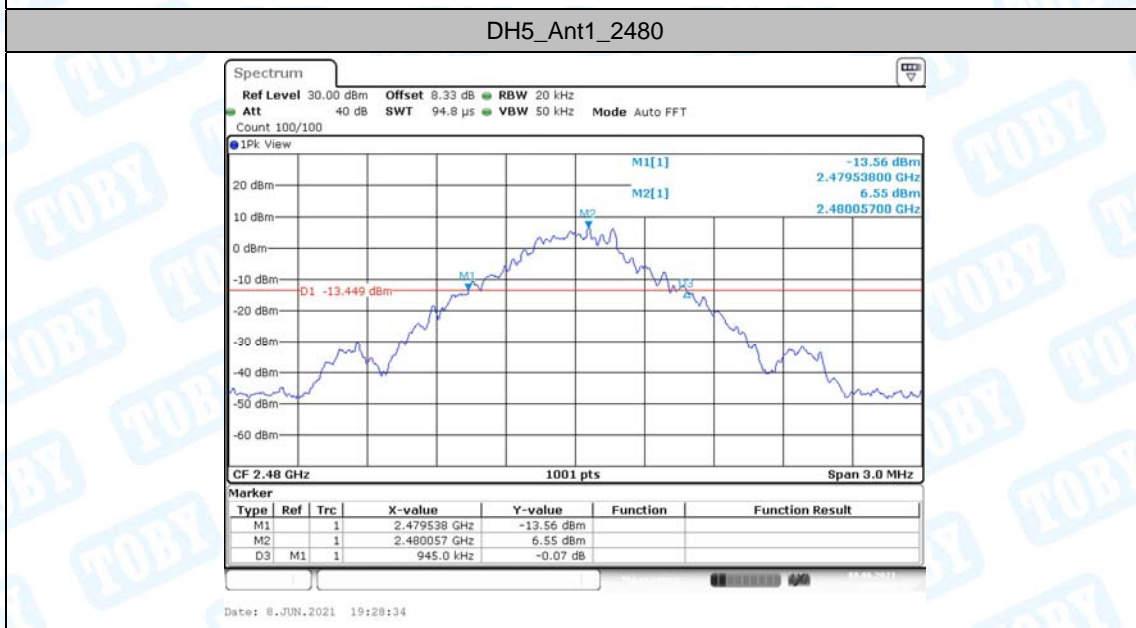
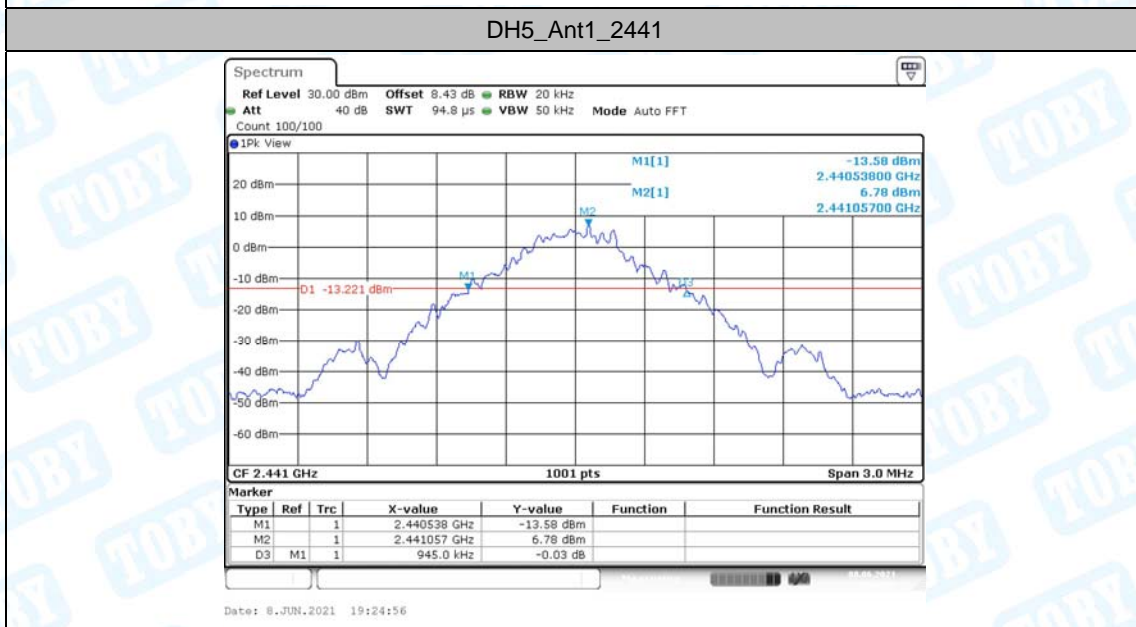
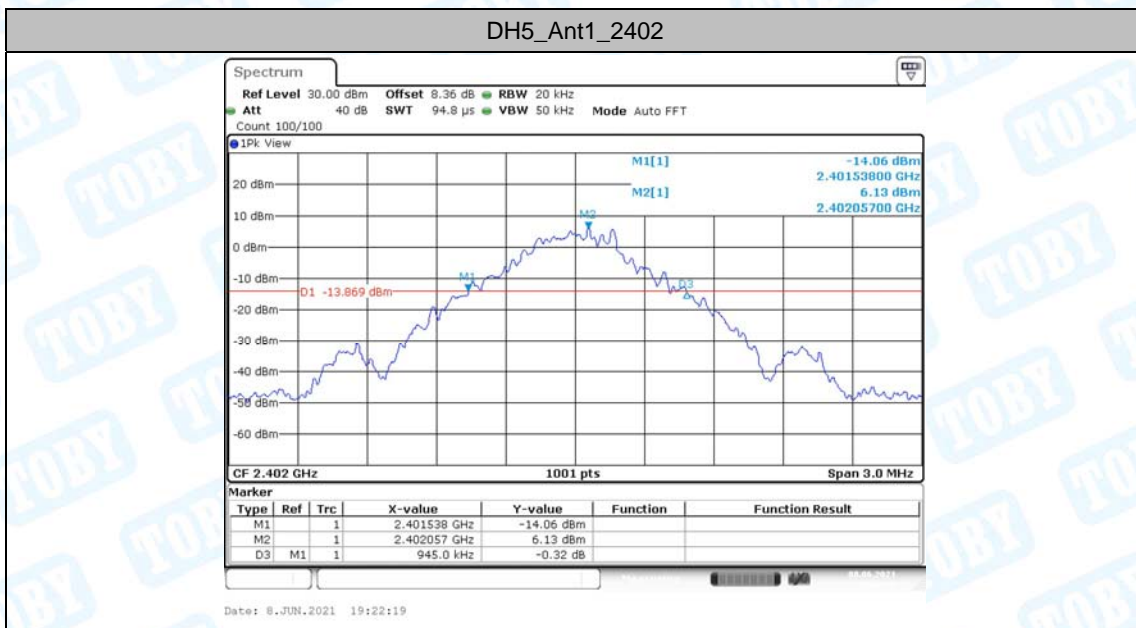
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1. 20dB Emission Bandwidth

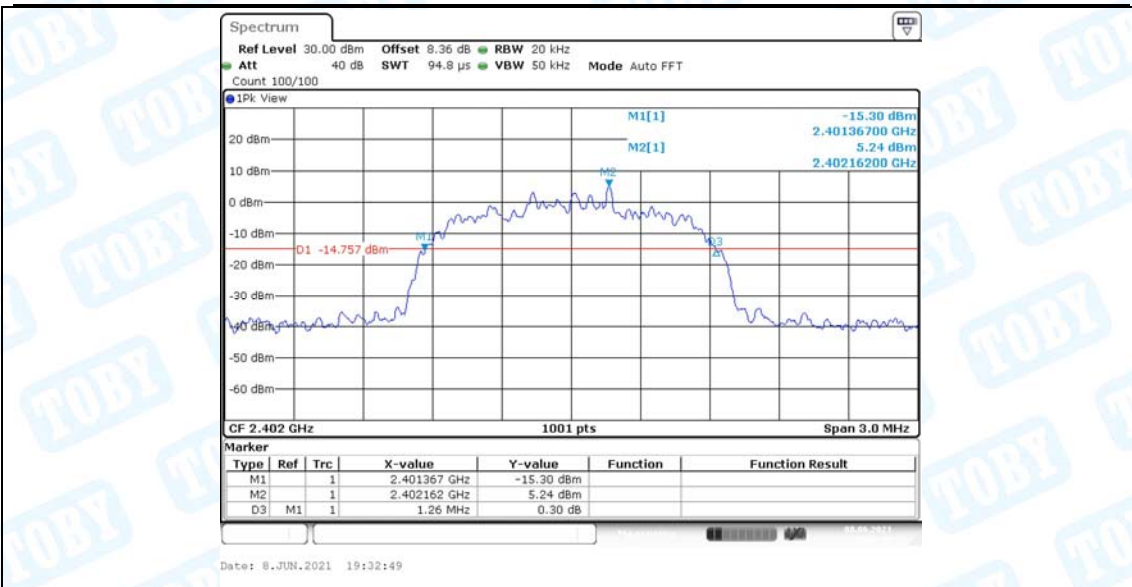
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.538	2402.483	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.260	2401.367	2402.627	---	PASS
		2441	1.260	2440.367	2441.627	---	PASS
		2480	1.260	2479.367	2480.627	---	PASS
3DH5	Ant1	2402	1.263	2401.358	2402.621	---	PASS
		2441	1.266	2440.355	2441.621	---	PASS
		2480	1.269	2479.355	2480.624	---	PASS

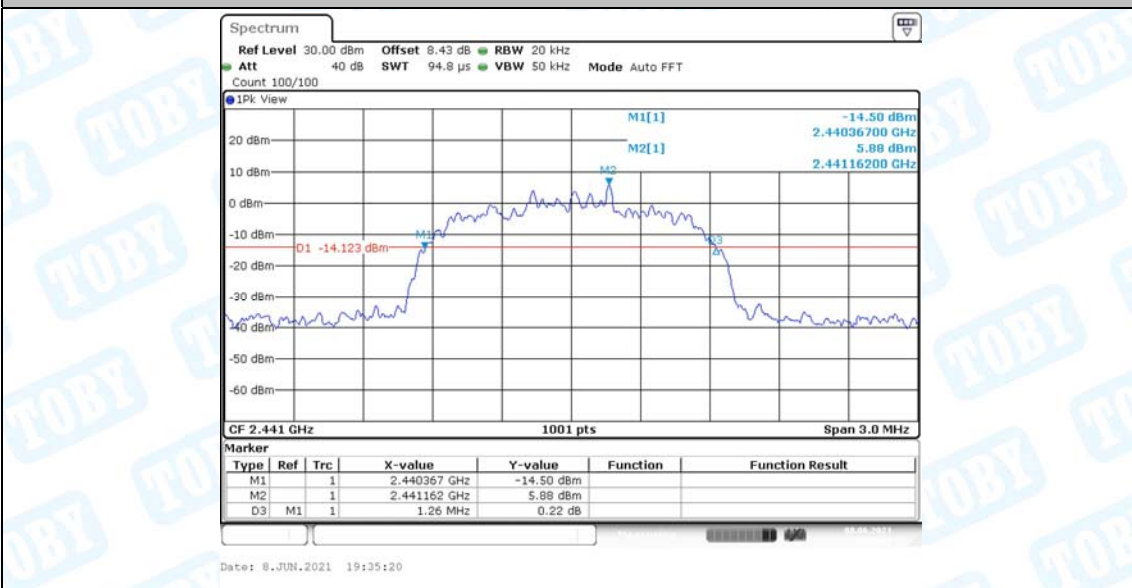
1.2. Test Graphs



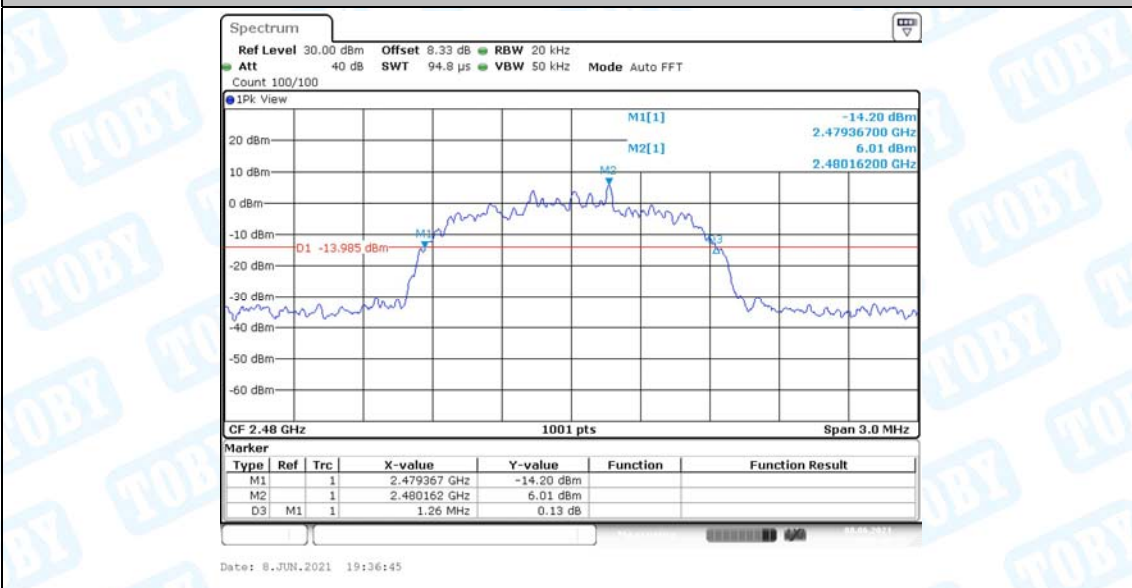
2DH5_Ant1_2402



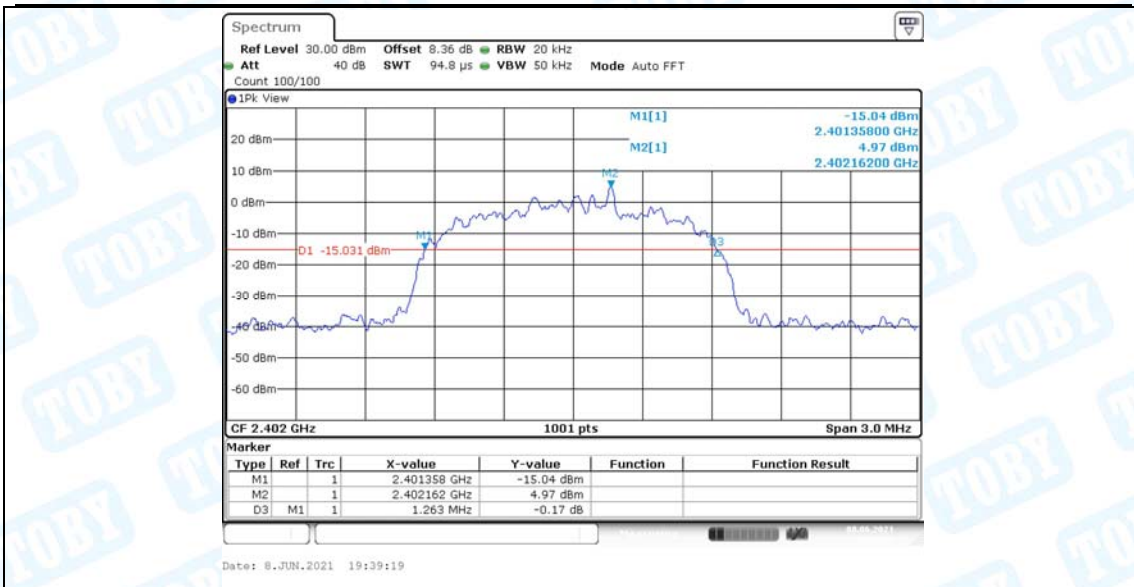
2DH5_Ant1_2441



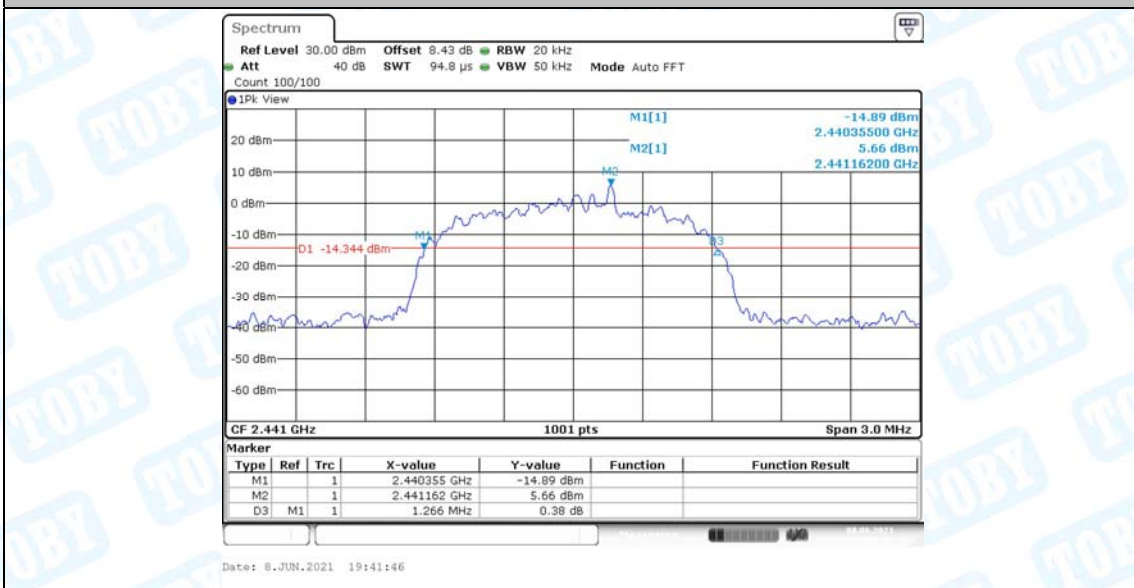
2DH5_Ant1_2480



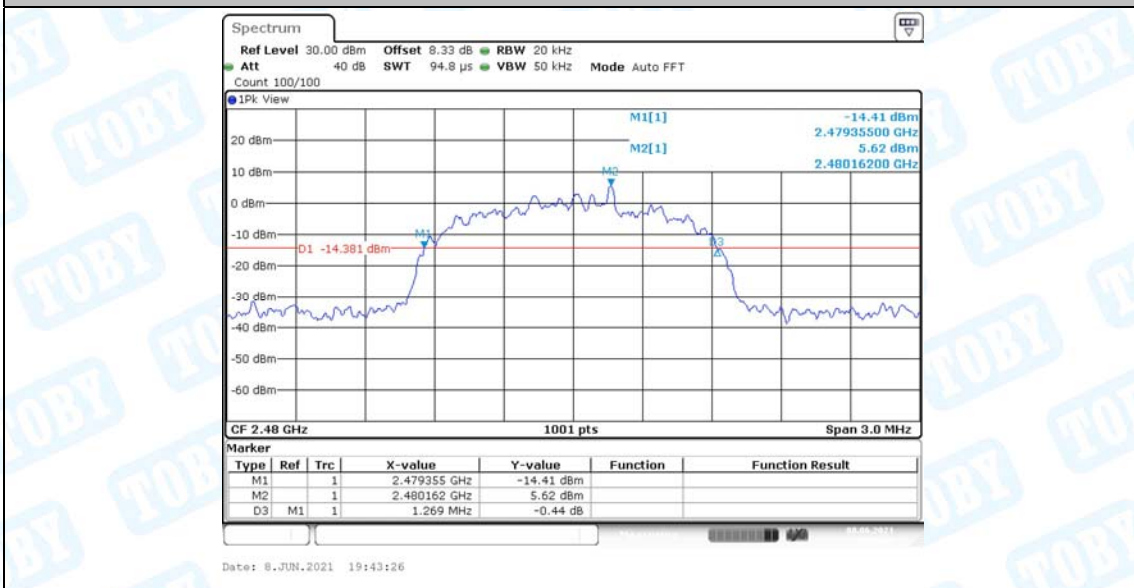
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

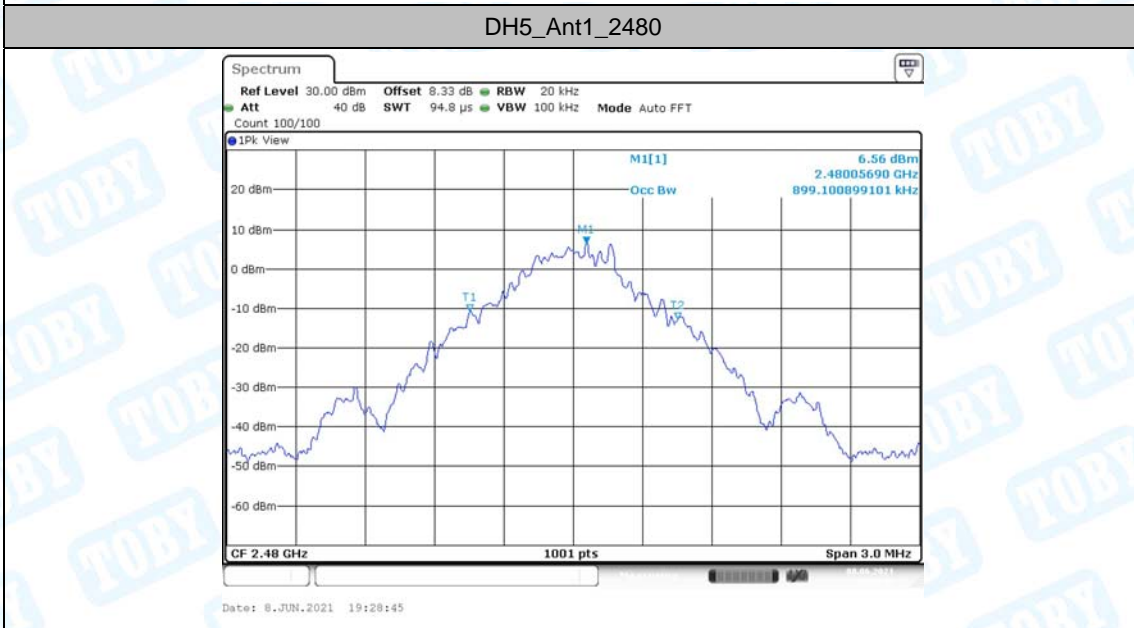
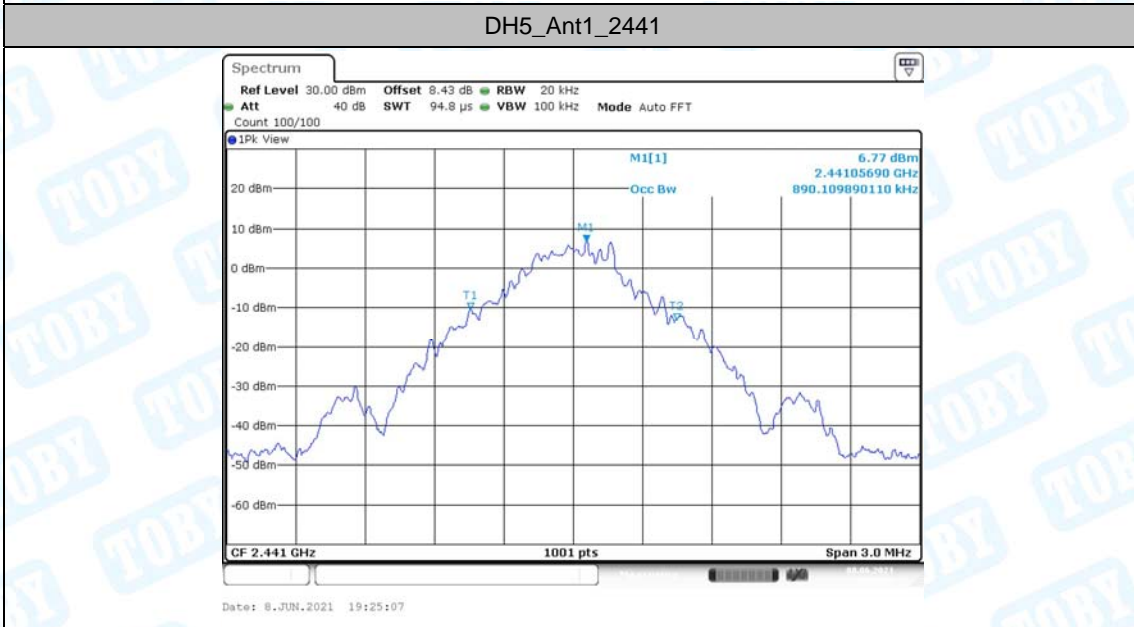
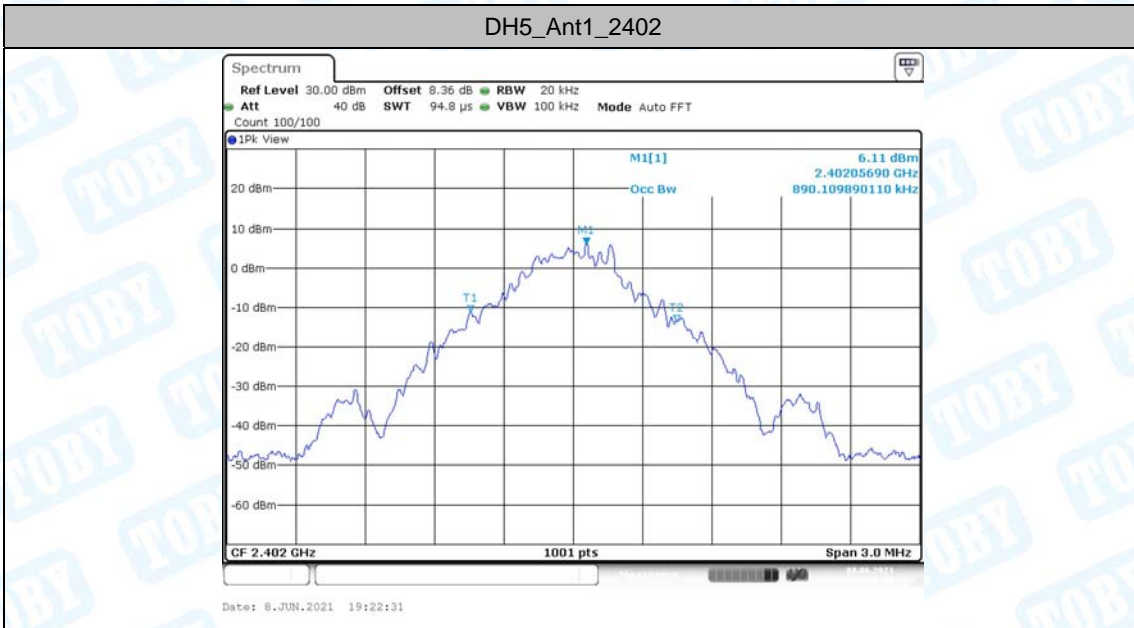


2. Occupied Channel Bandwidth

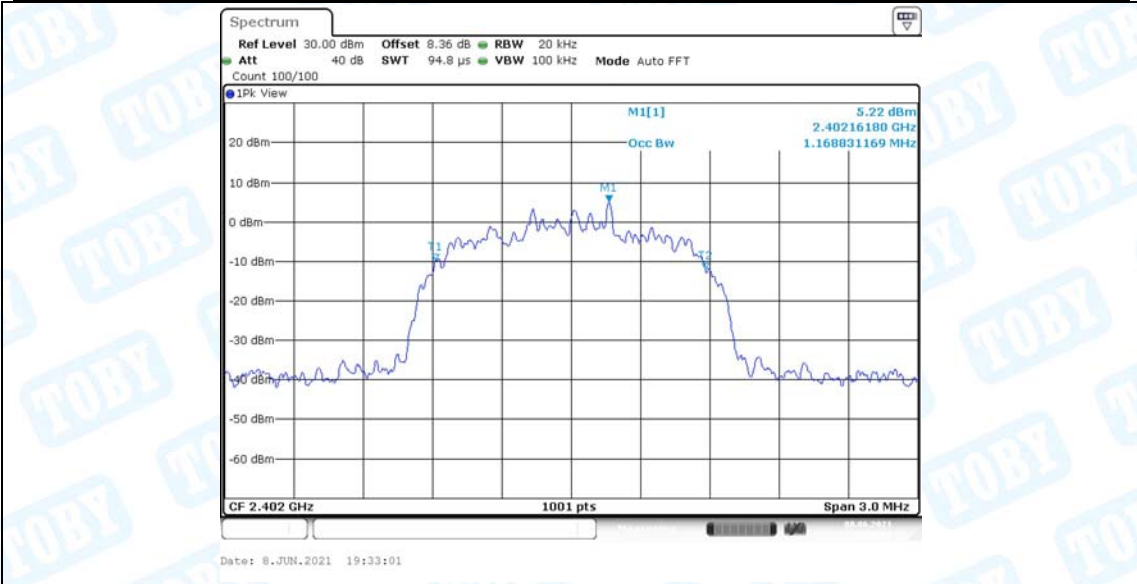
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89	2401.556	2402.447	---	PASS
		2441	0.89	2440.556	2441.447	---	PASS
		2480	0.899	2479.553	2480.453	---	PASS
2DH5	Ant1	2402	1.169	2401.413	2402.581	---	PASS
		2441	1.169	2440.413	2441.581	---	PASS
		2480	1.175	2479.410	2480.584	---	PASS
3DH5	Ant1	2402	1.178	2401.410	2402.587	---	PASS
		2441	1.181	2440.407	2441.587	---	PASS
		2480	1.187	2479.404	2480.590	---	PASS

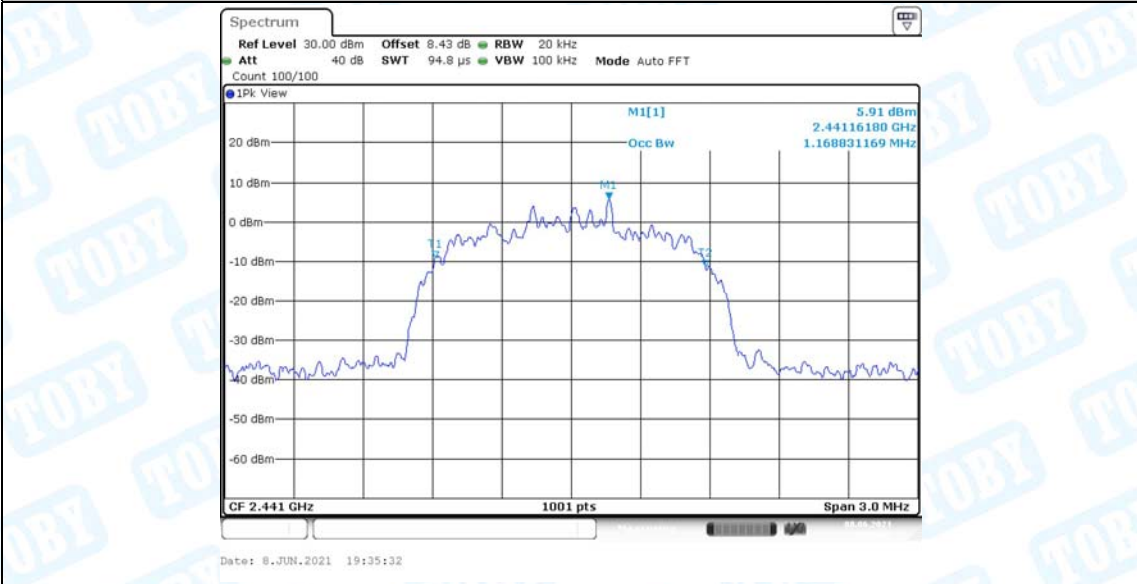
2.2.Test Graphs



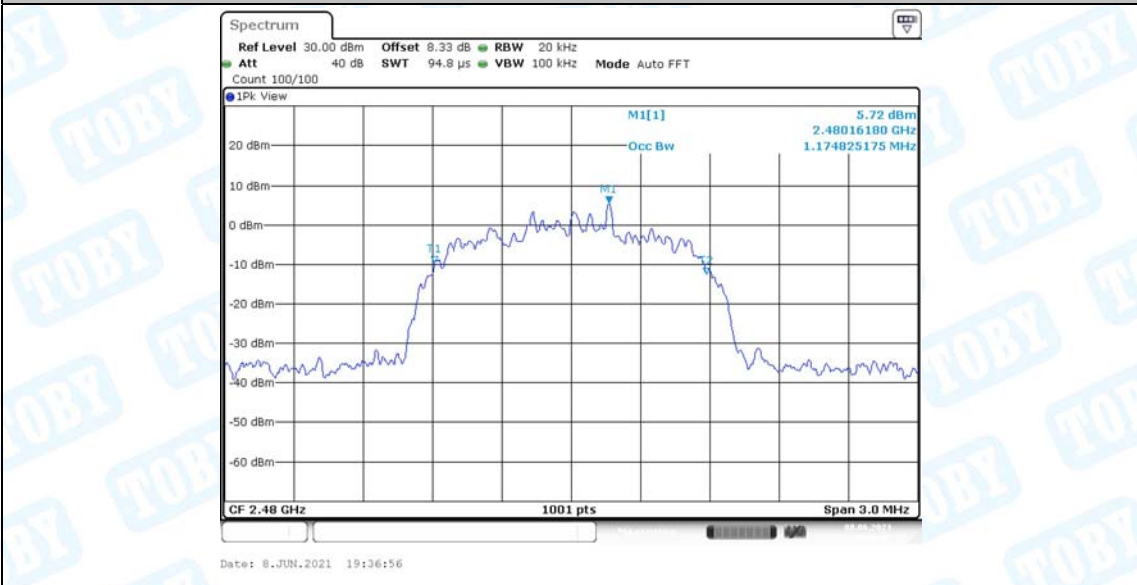
2DH5_Ant1_2402



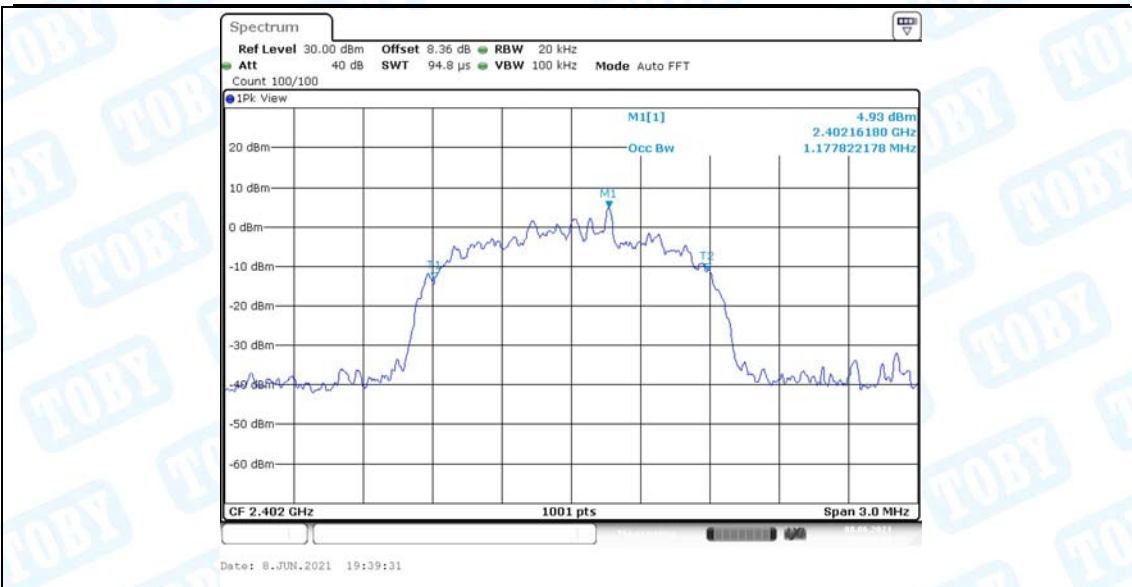
2DH5_Ant1_2441



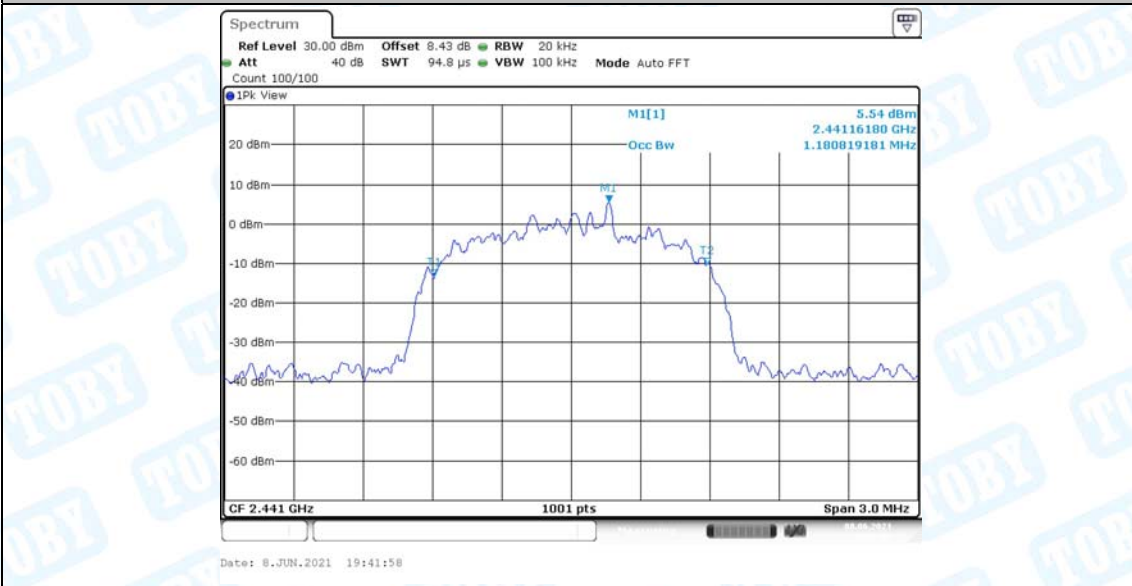
2DH5_Ant1_2480



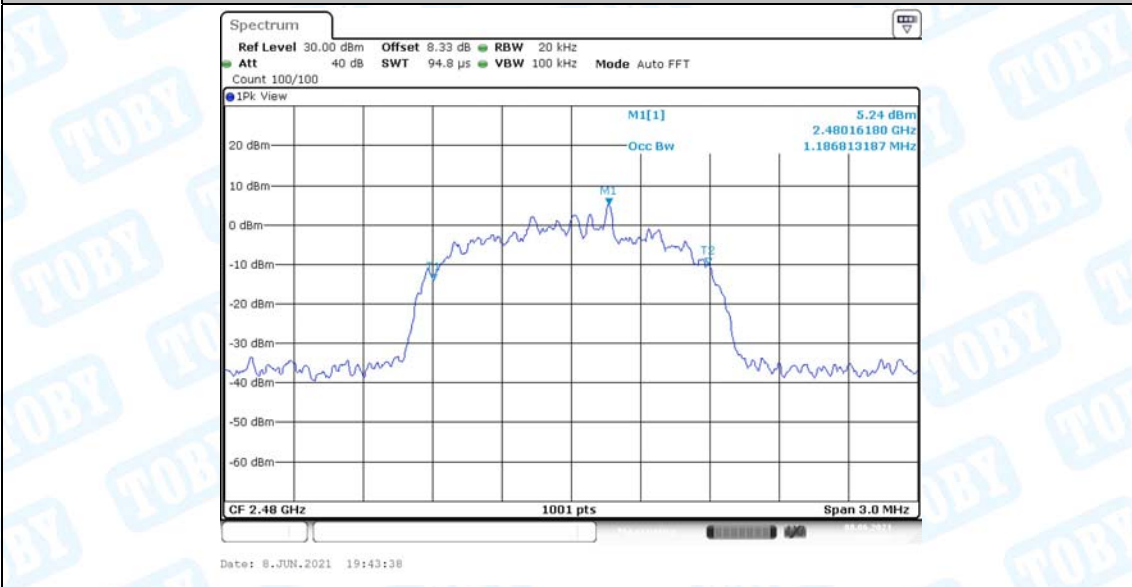
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

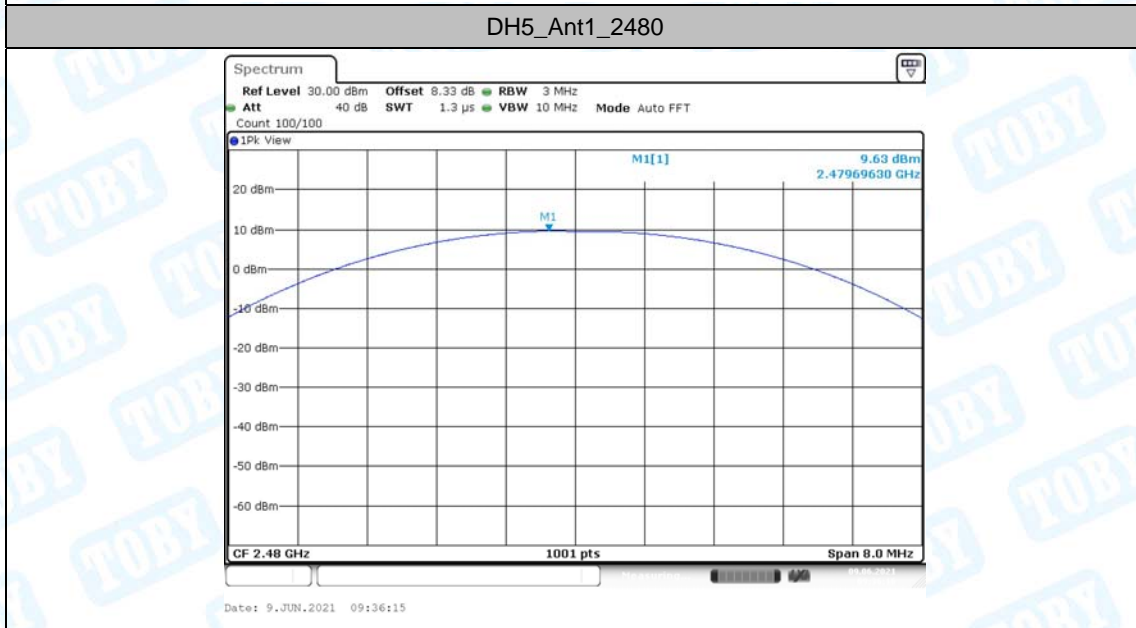
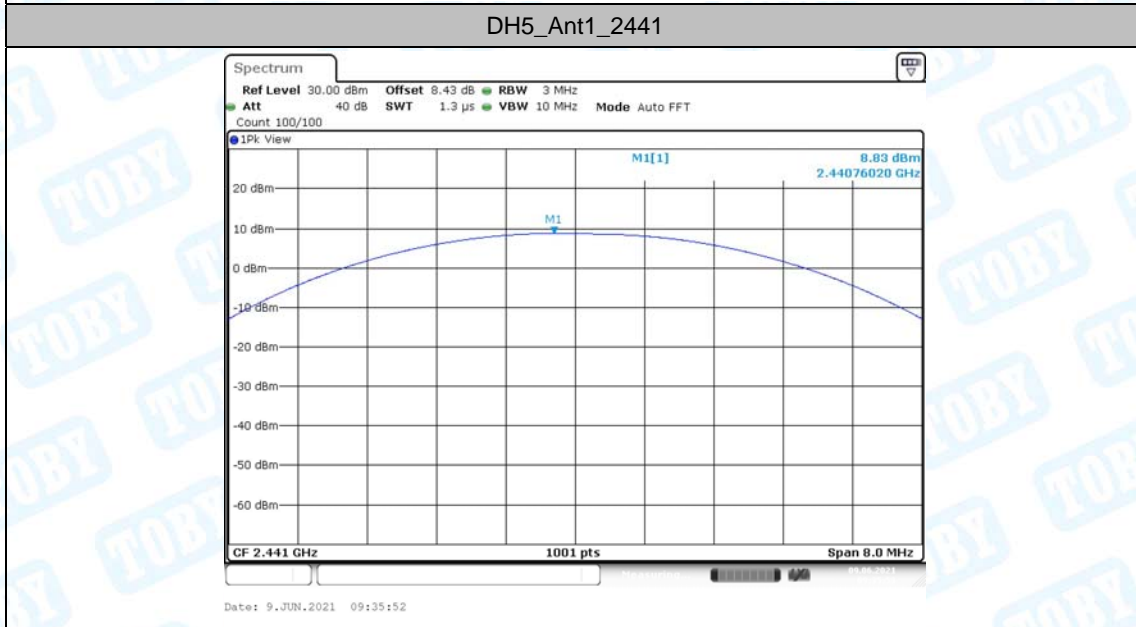
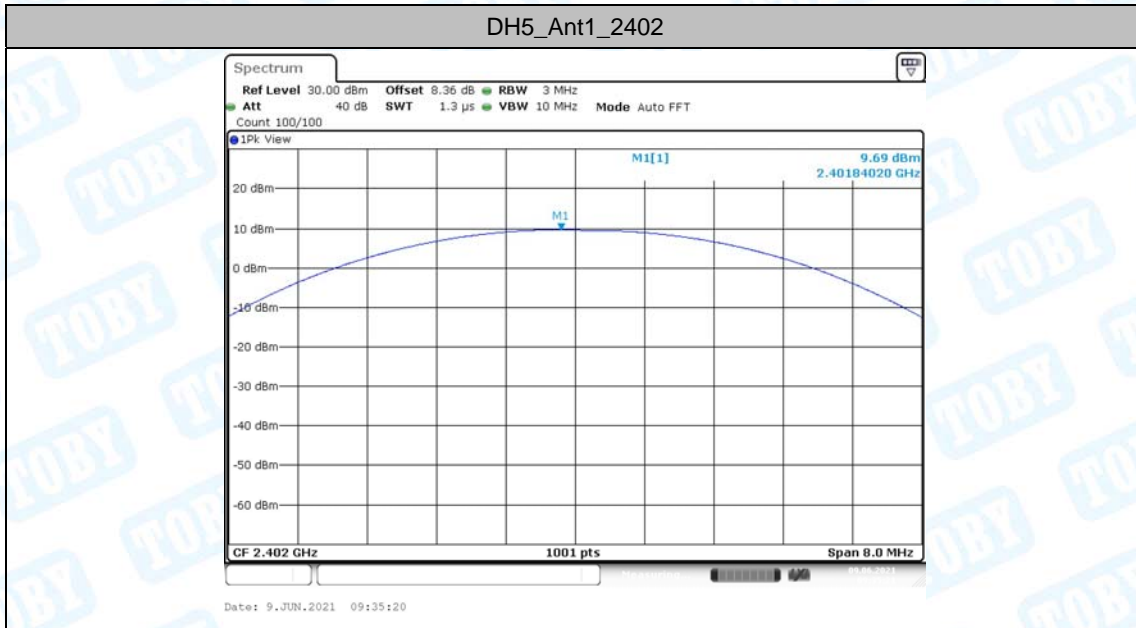


3. Maximum conducted output power

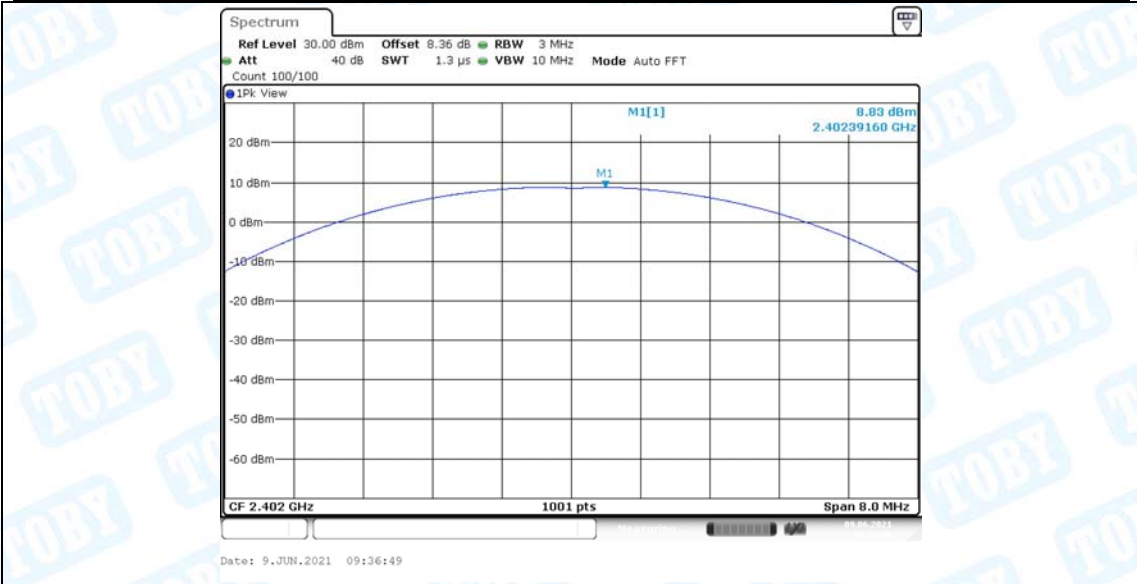
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	9.69	<=30	PASS
		2441	8.83	<=30	PASS
		2480	9.63	<=30	PASS
2DH5	Ant1	2402	8.83	<=20.97	PASS
		2441	8.26	<=20.97	PASS
		2480	9.16	<=20.97	PASS
3DH5	Ant1	2402	9.16	<=20.97	PASS
		2441	8.51	<=20.97	PASS
		2480	9.4	<=20.97	PASS

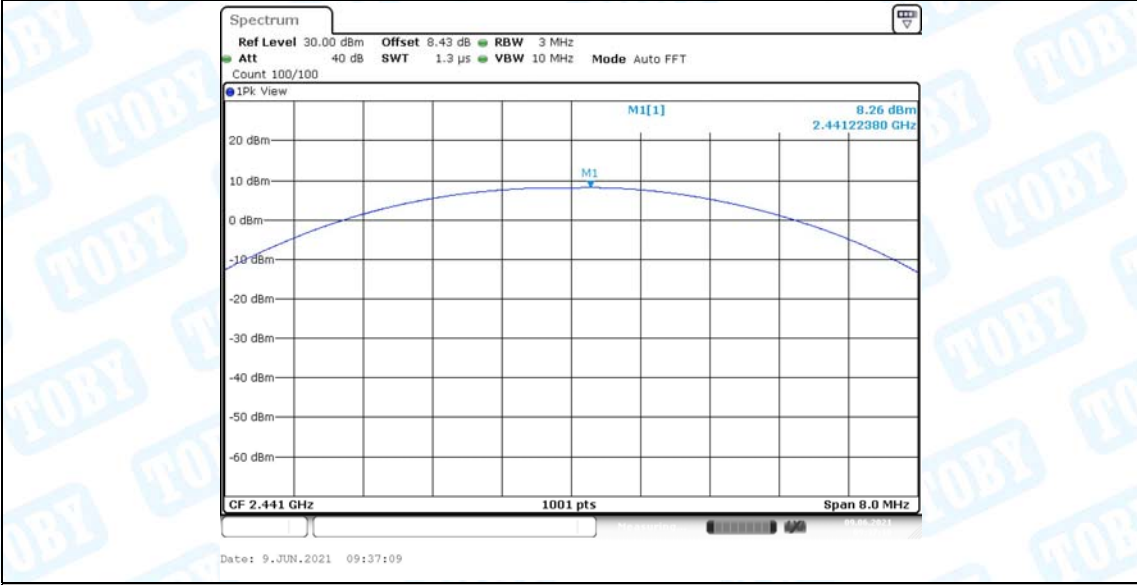
3.2.Test Graphs



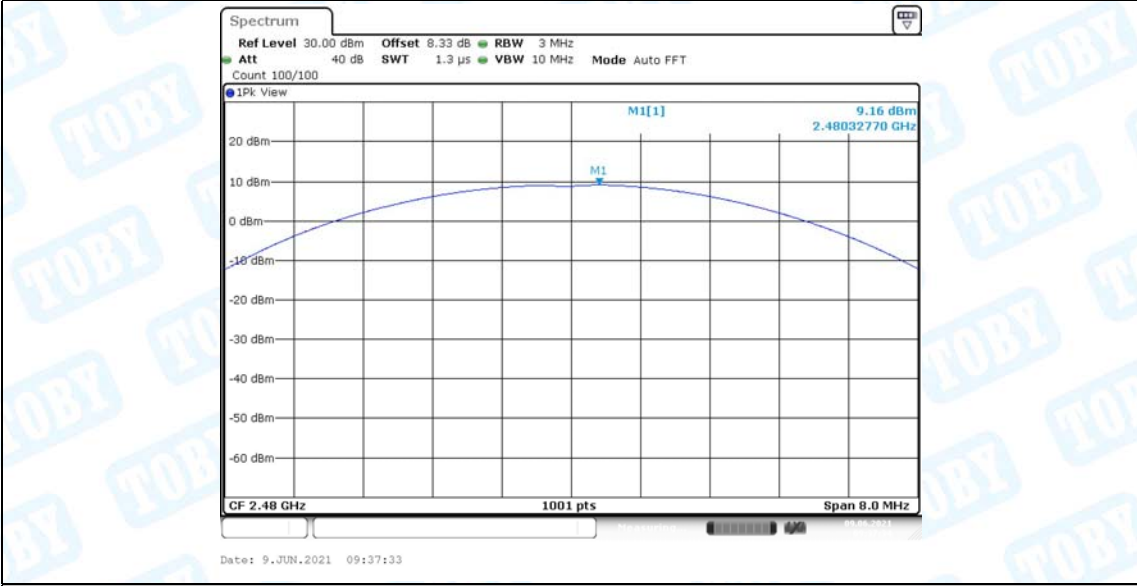
2DH5_Ant1_2402



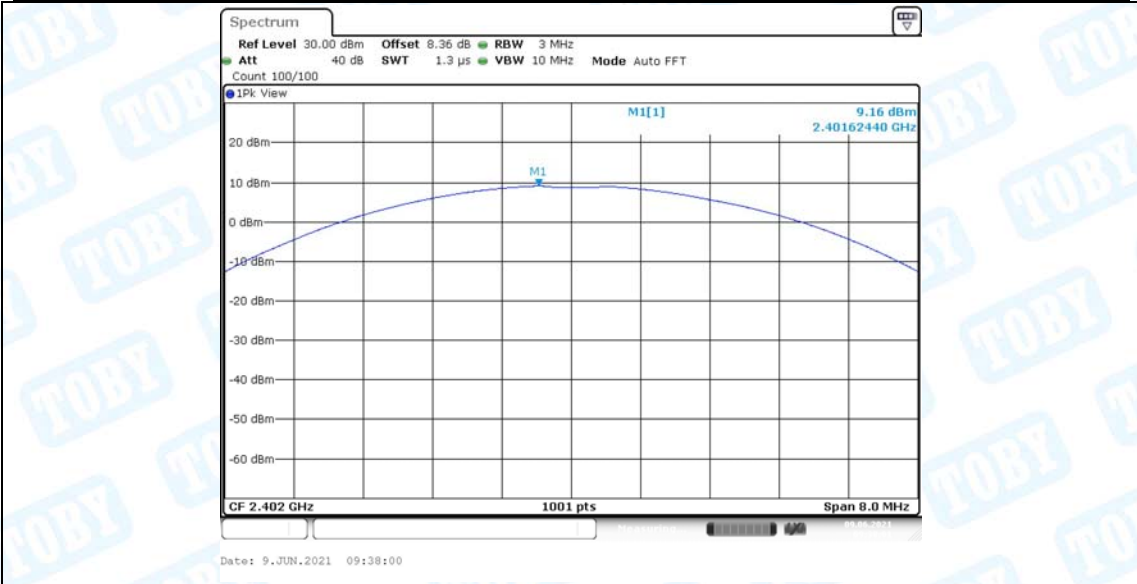
2DH5_Ant1_2441



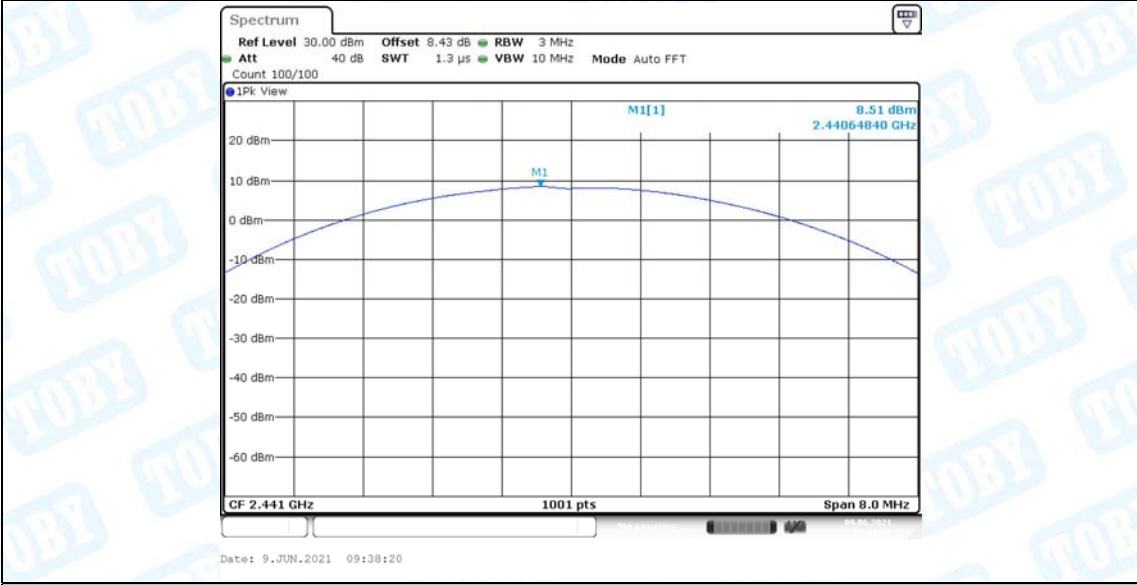
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

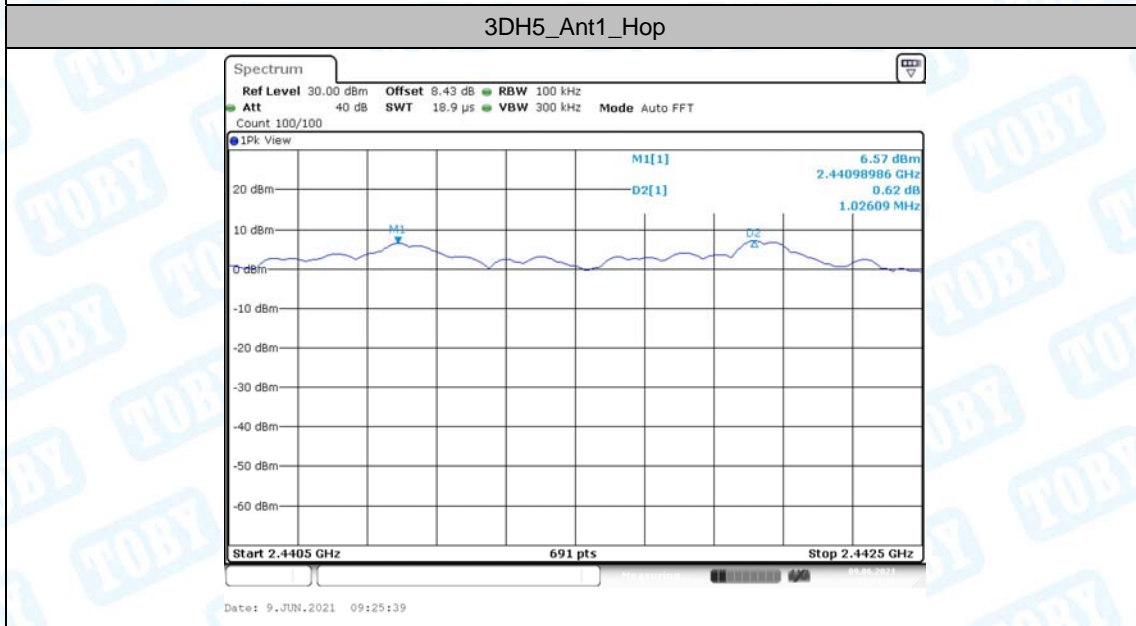
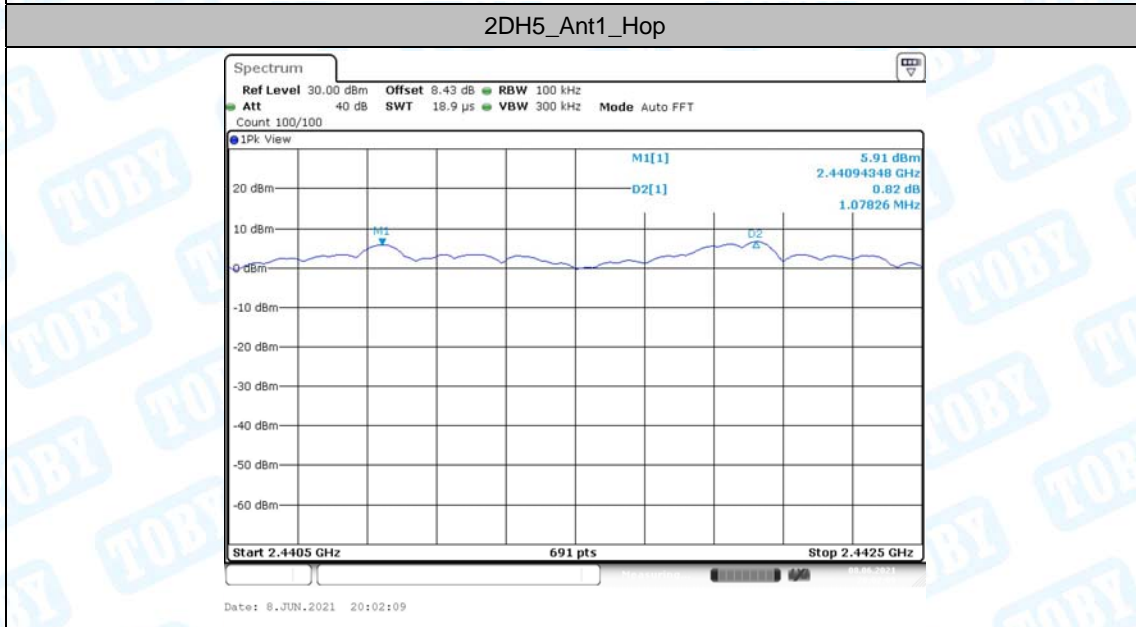
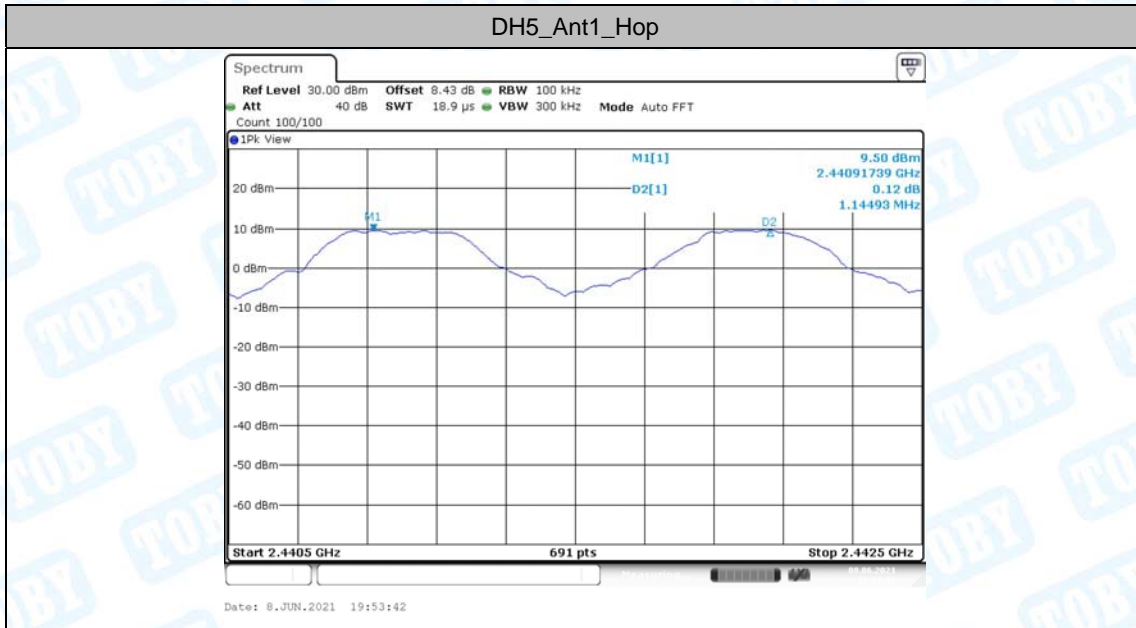


4. Carrier frequency separation

4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.145	≥ 0.945	PASS
2DH5	Ant1	Hop	1.078	≥ 0.840	PASS
3DH5	Ant1	Hop	1.026	≥ 0.846	PASS

4.2. Test Graphs

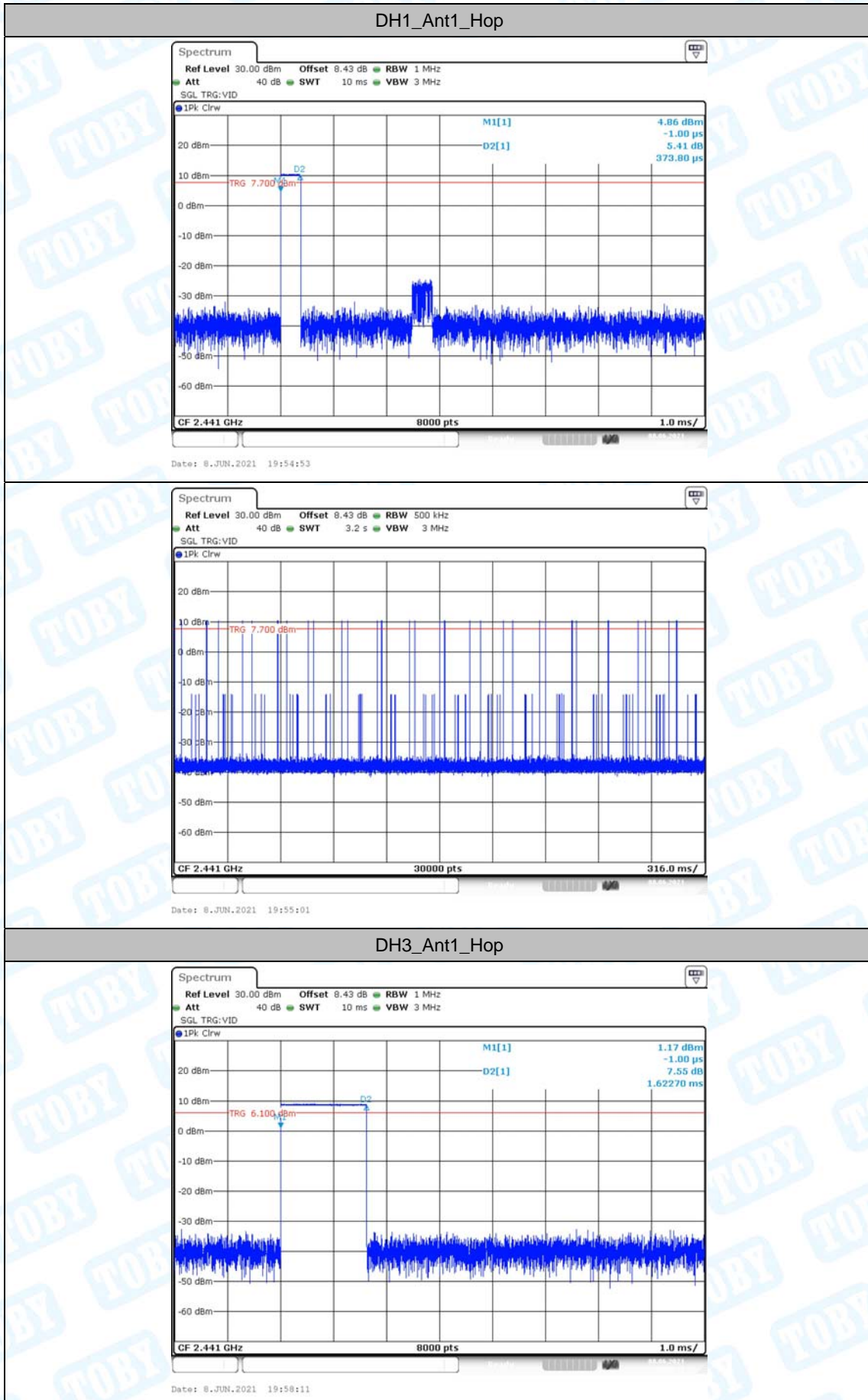


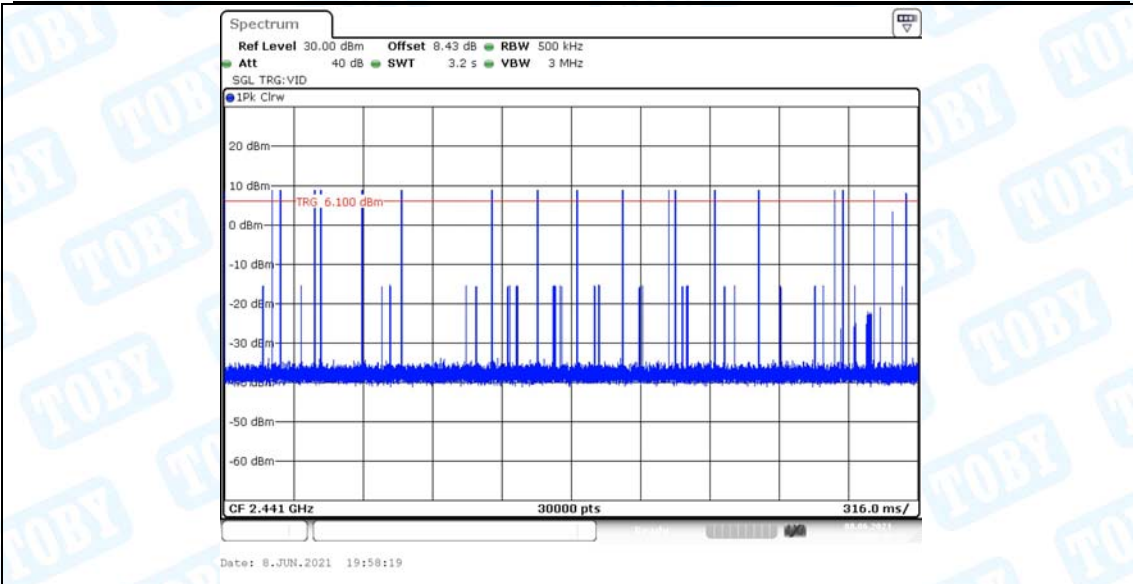
5. Time of occupancy

5.1. Test Result

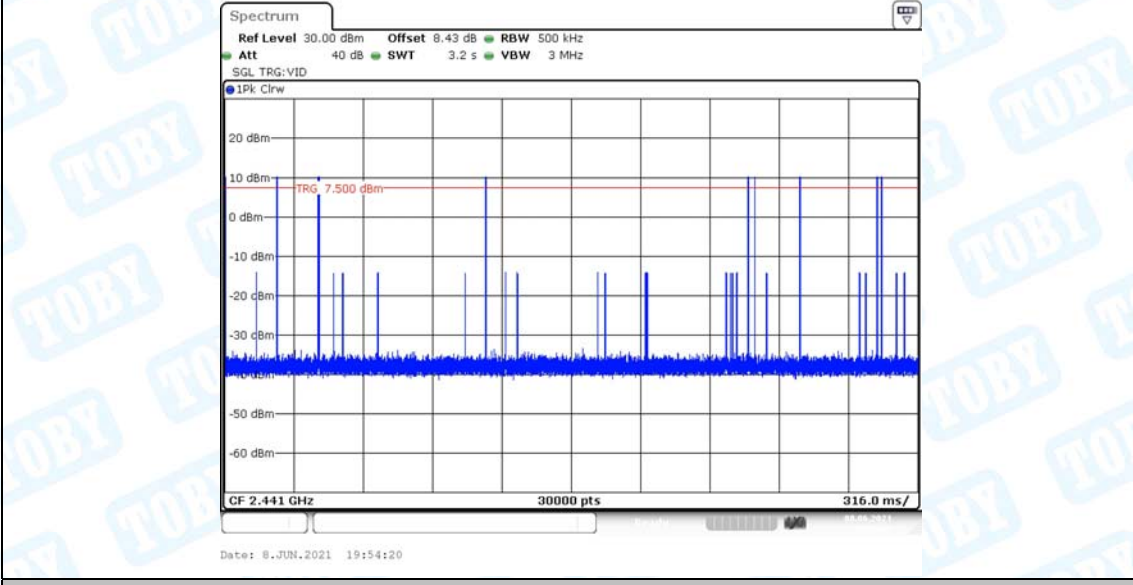
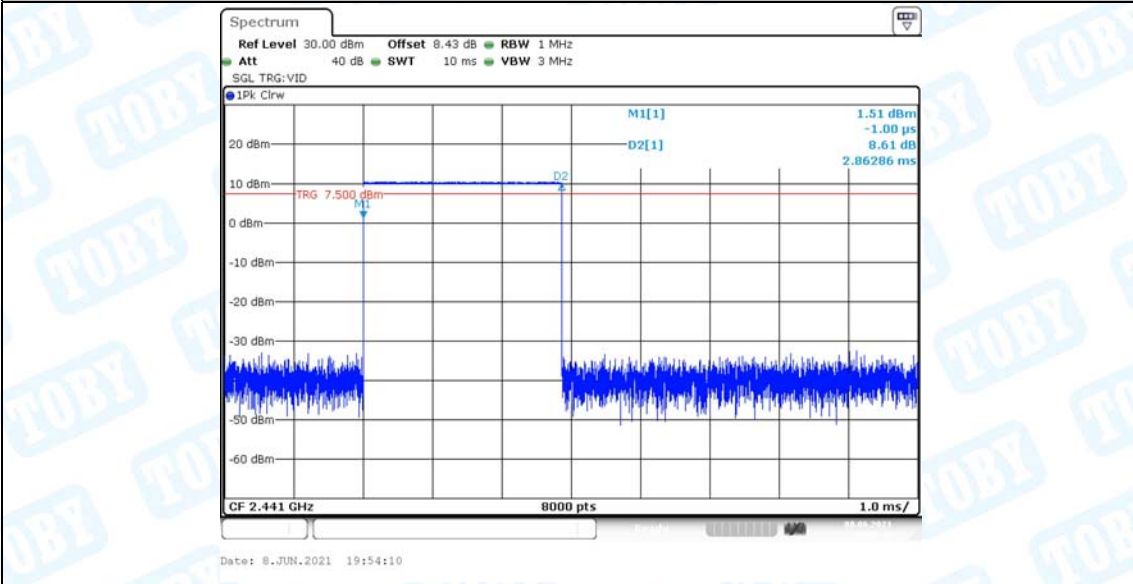
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.12	<=0.4	PASS
DH3	Ant1	Hop	1.62	220	0.357	<=0.4	PASS
DH5	Ant1	Hop	2.86	100	0.286	<=0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	<=0.4	PASS
2DH3	Ant1	Hop	1.63	200	0.325	<=0.4	PASS
2DH5	Ant1	Hop	2.87	80	0.229	<=0.4	PASS
3DH1	Ant1	Hop	0.38	330	0.126	<=0.4	PASS
3DH3	Ant1	Hop	1.63	170	0.276	<=0.4	PASS
3DH5	Ant1	Hop	2.87	80	0.23	<=0.4	PASS

5.2. Test Graphs

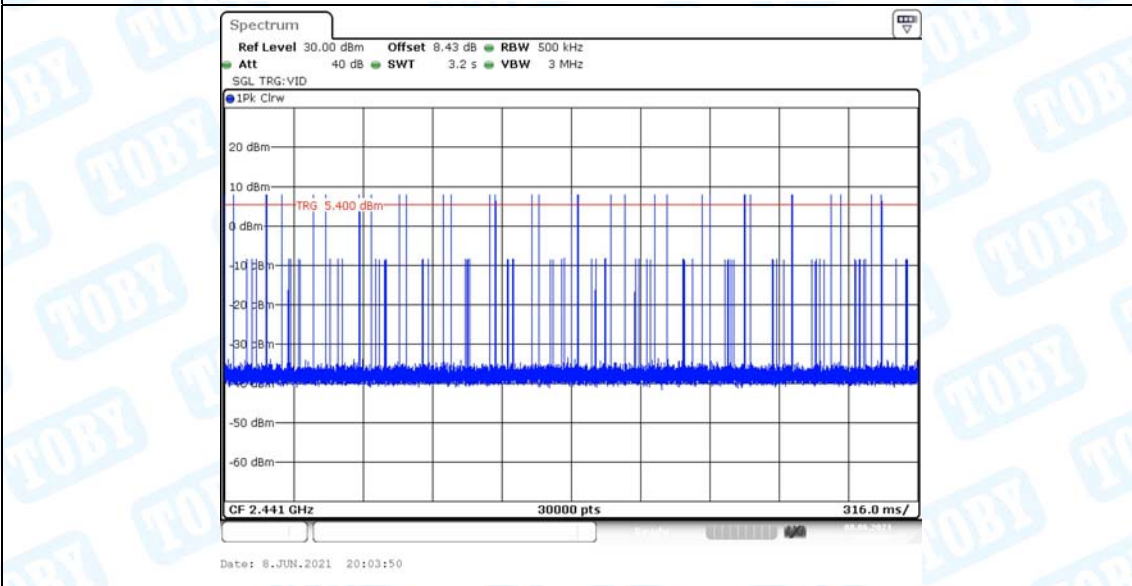
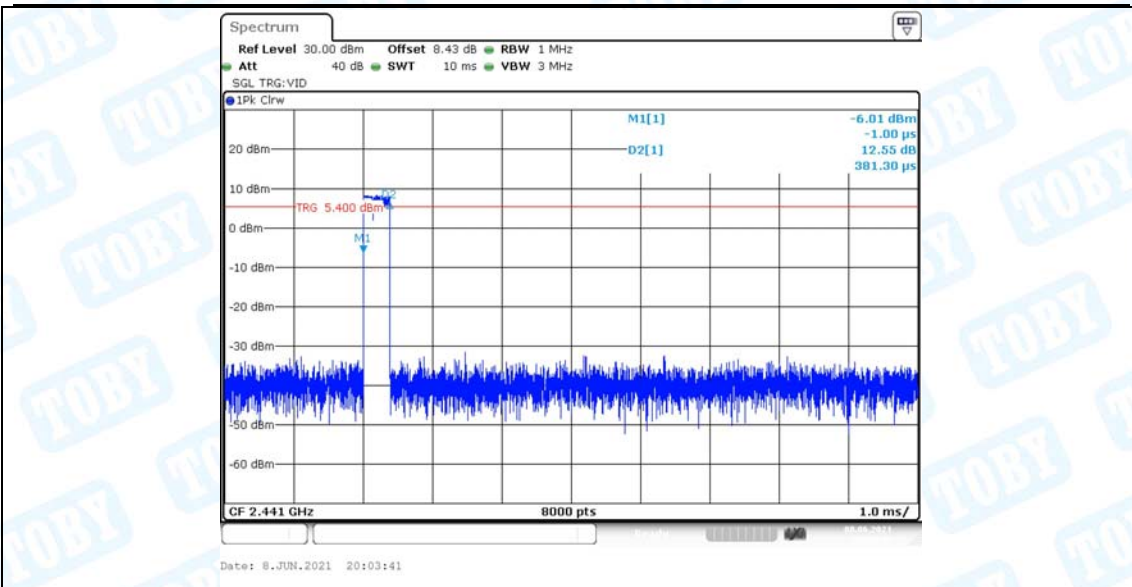




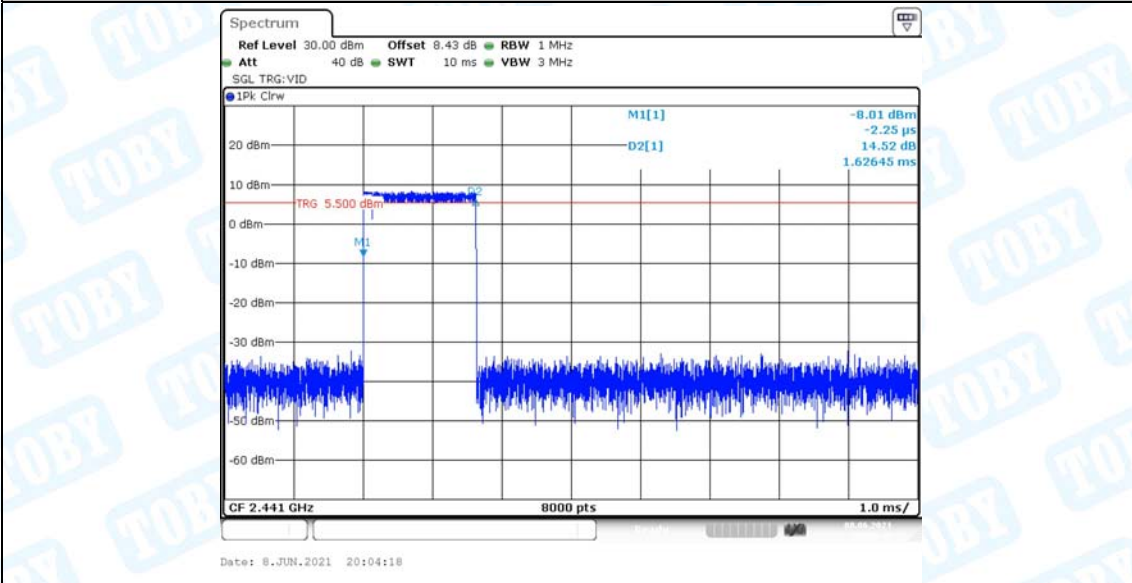
DH5_Ant1_Hop

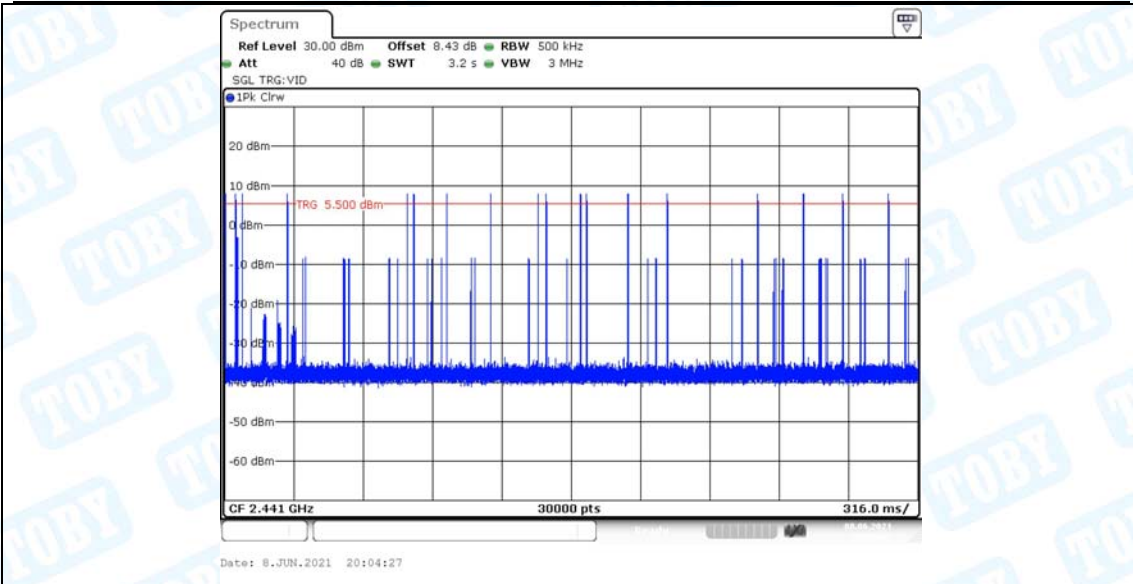


2DH1_Ant1_Hop

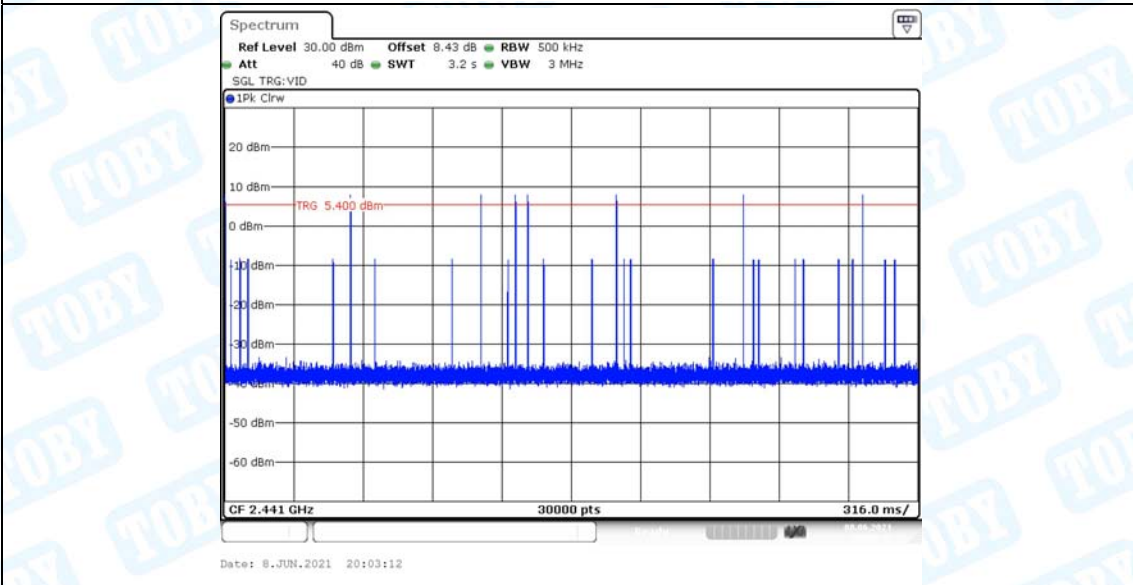
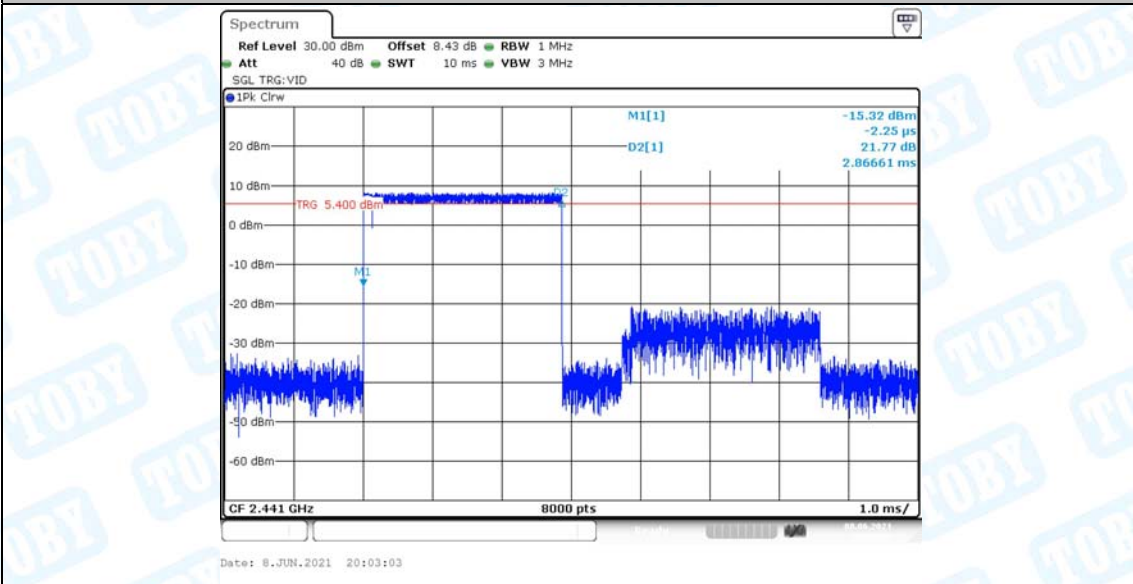


2DH3_Ant1_Hop

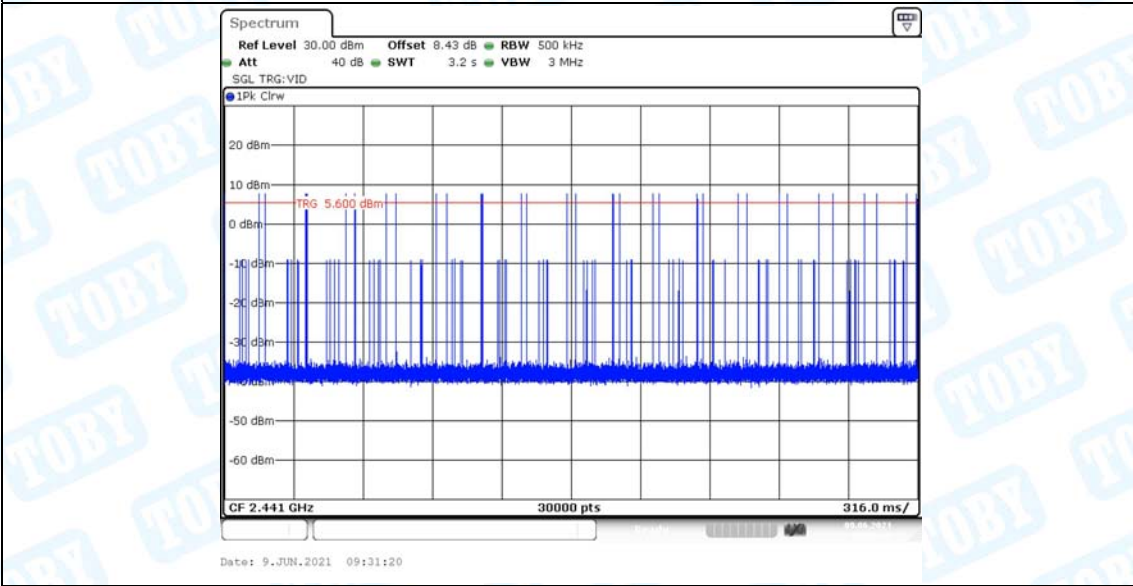
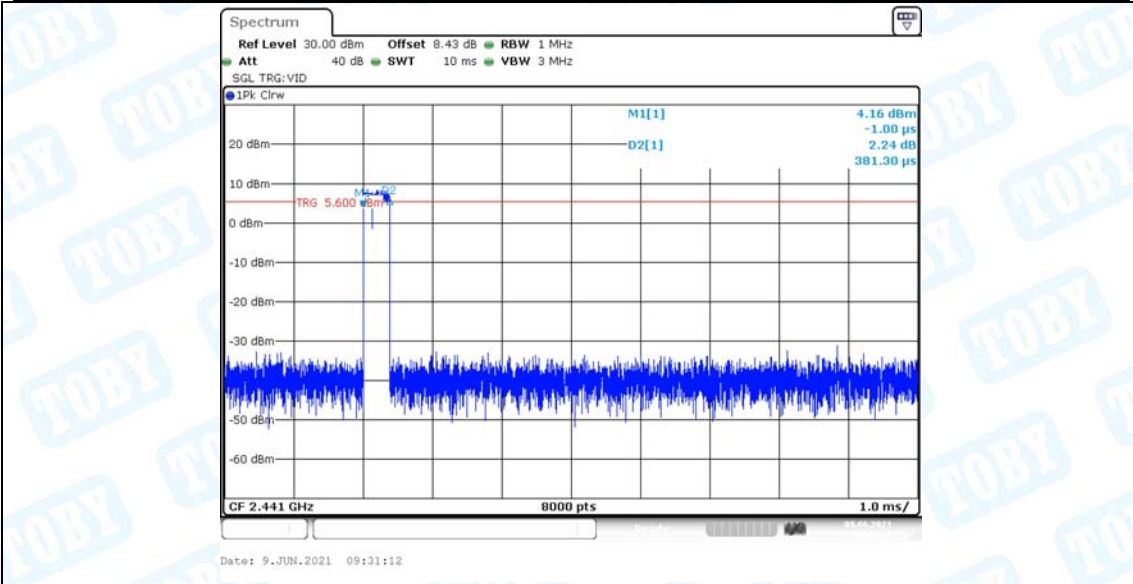




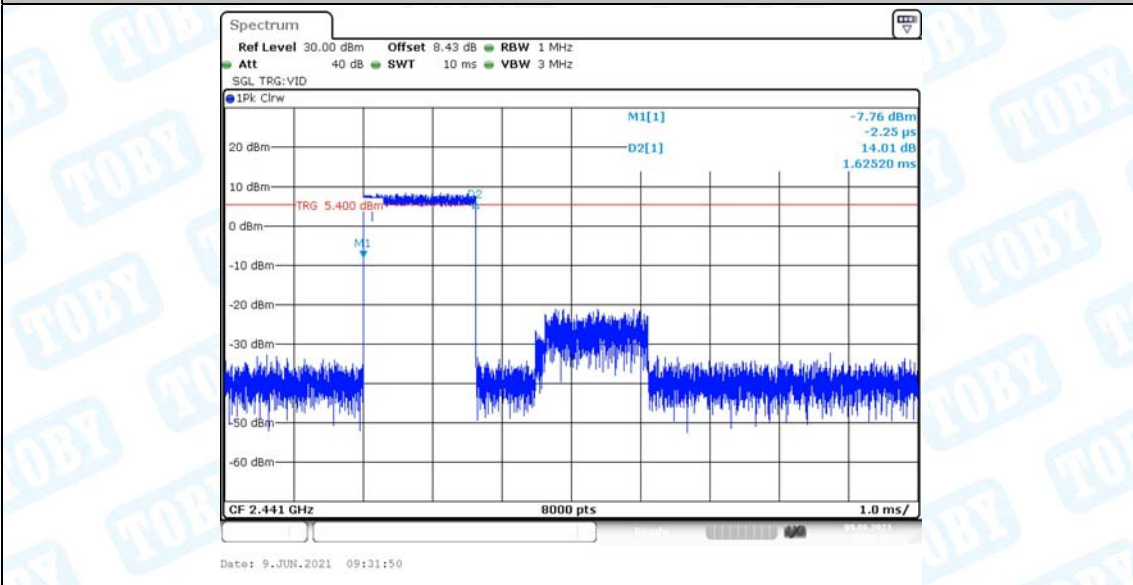
2DH5_Ant1_Hop

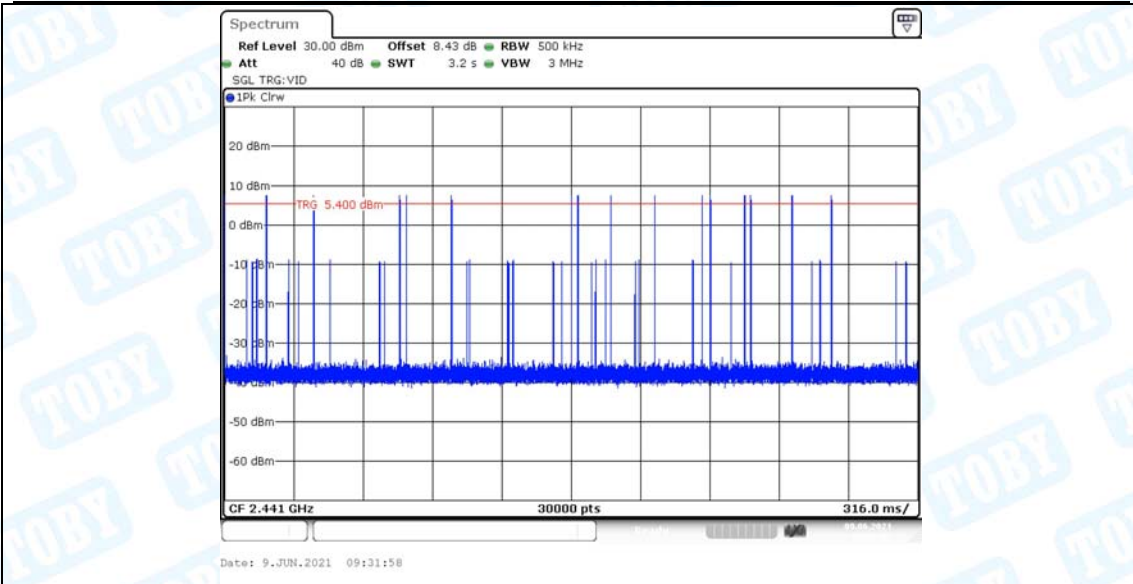


3DH1_Ant1_Hop

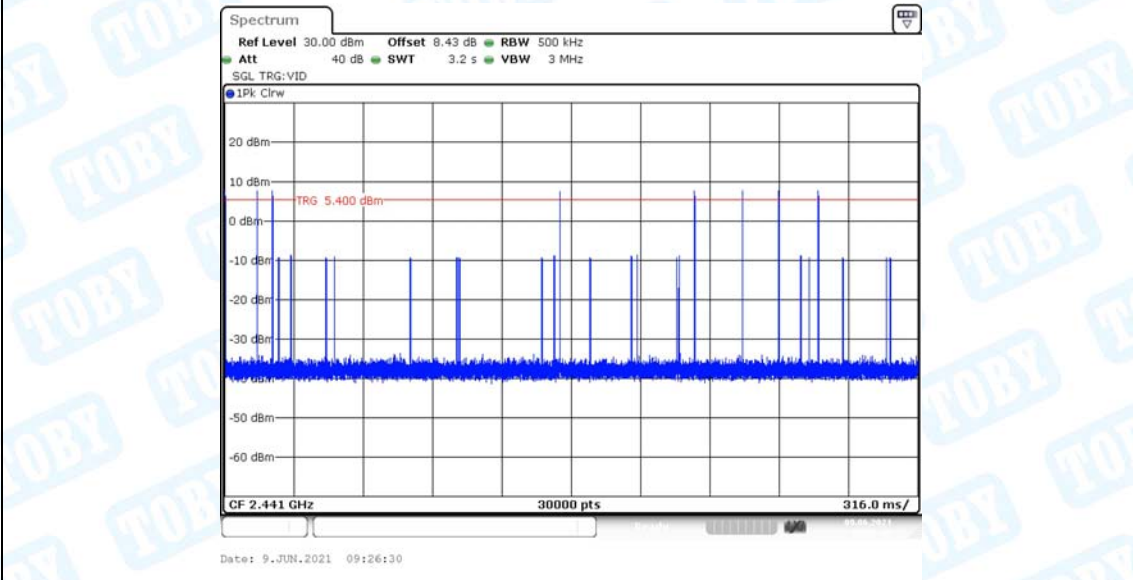
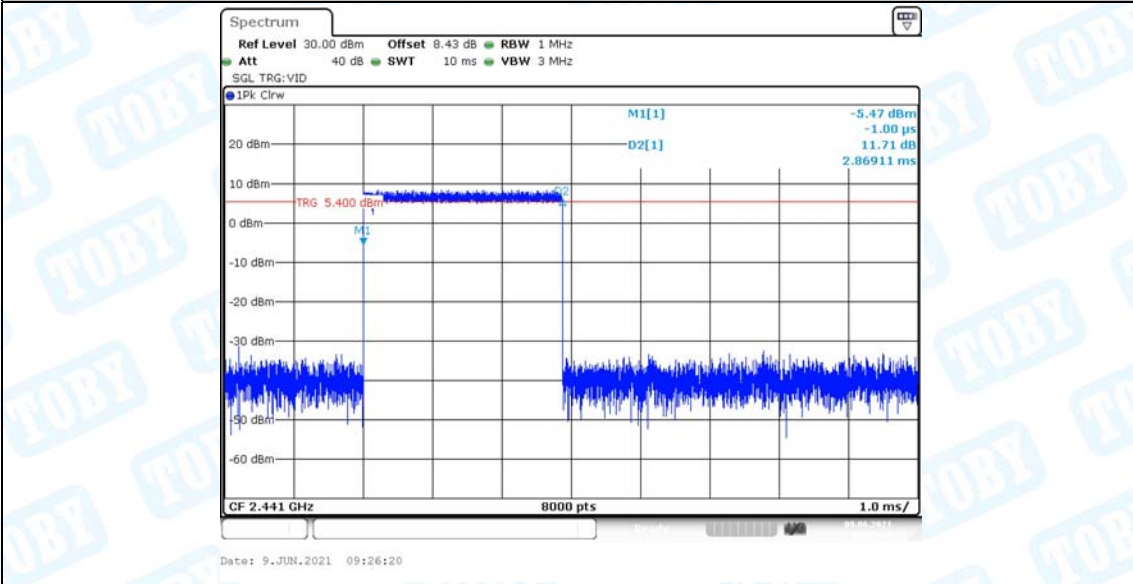


3DH3_Ant1_Hop





3DH5_Ant1_Hop

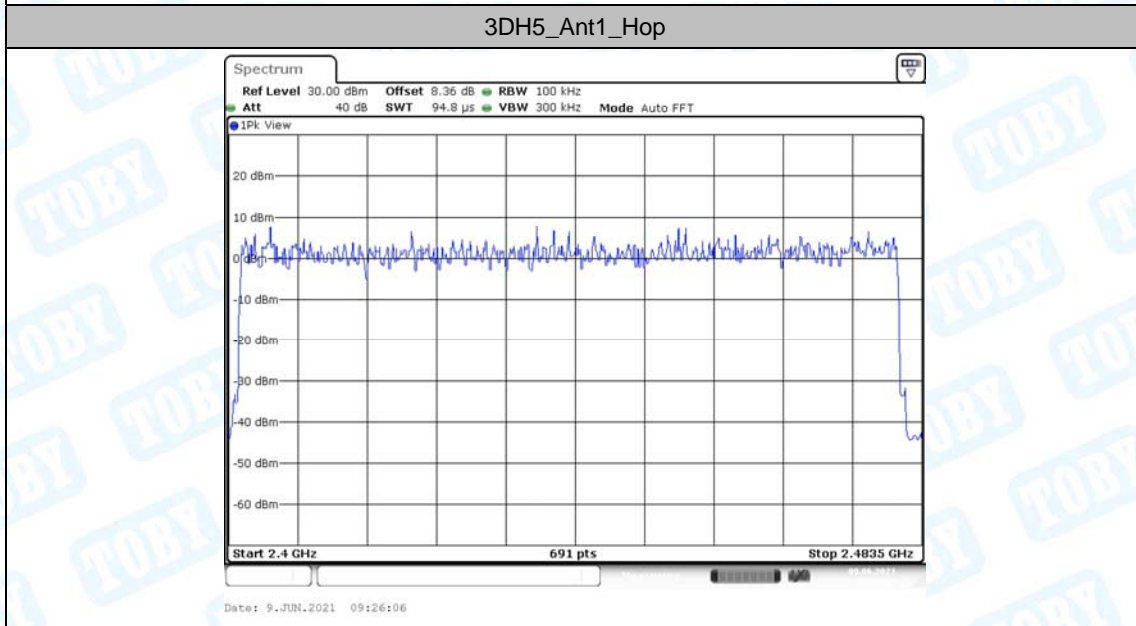
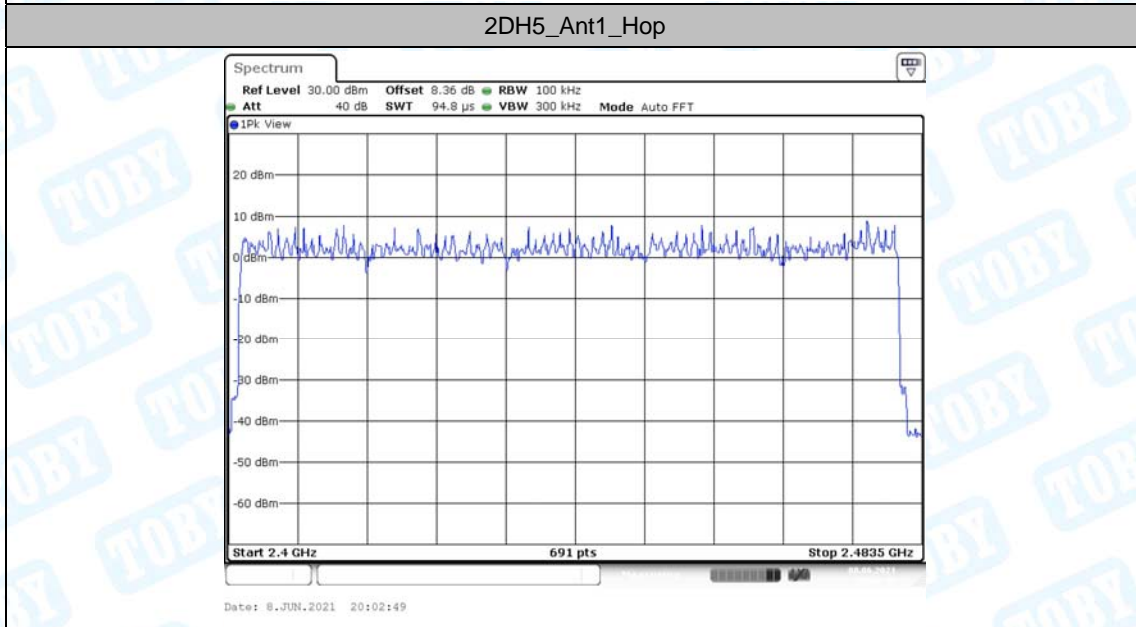
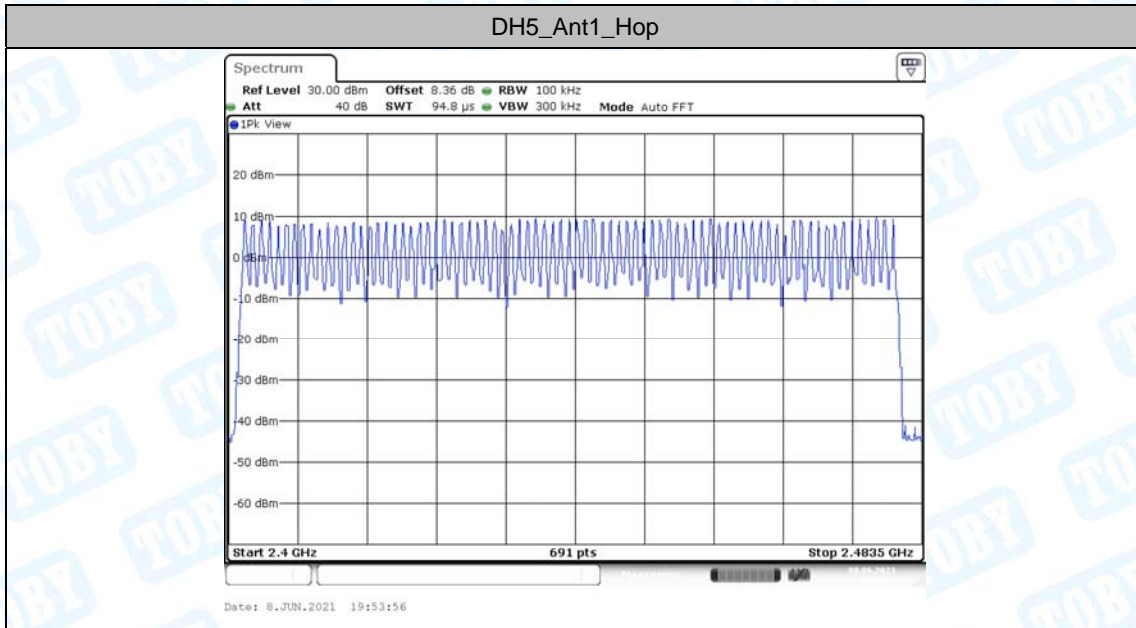


6. Number of hopping channels

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

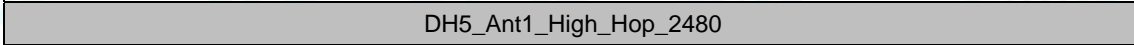
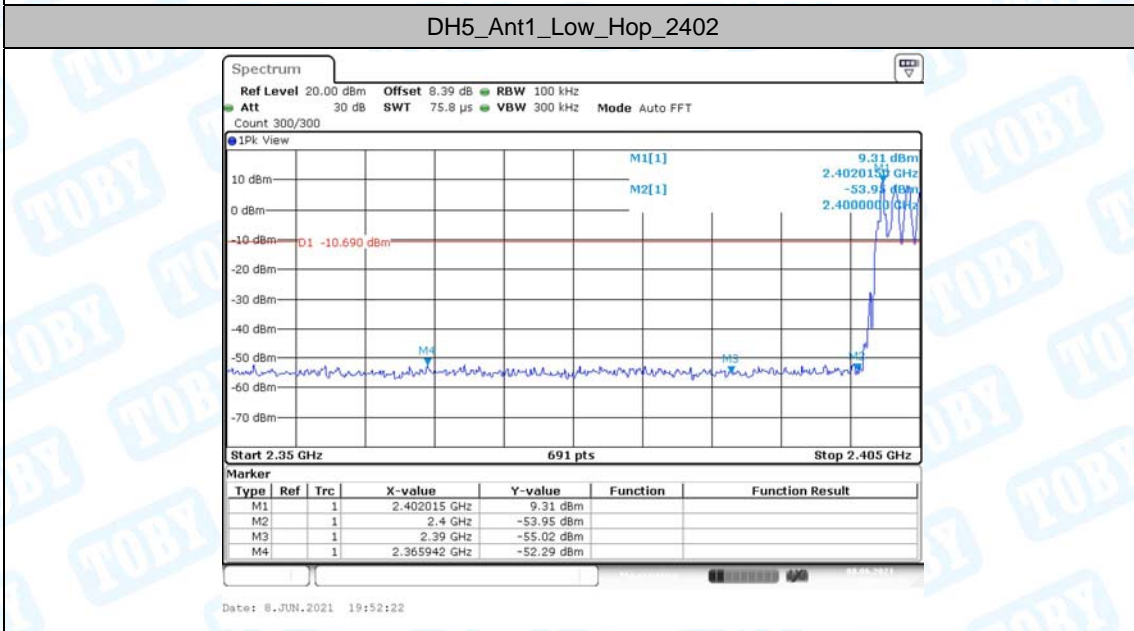
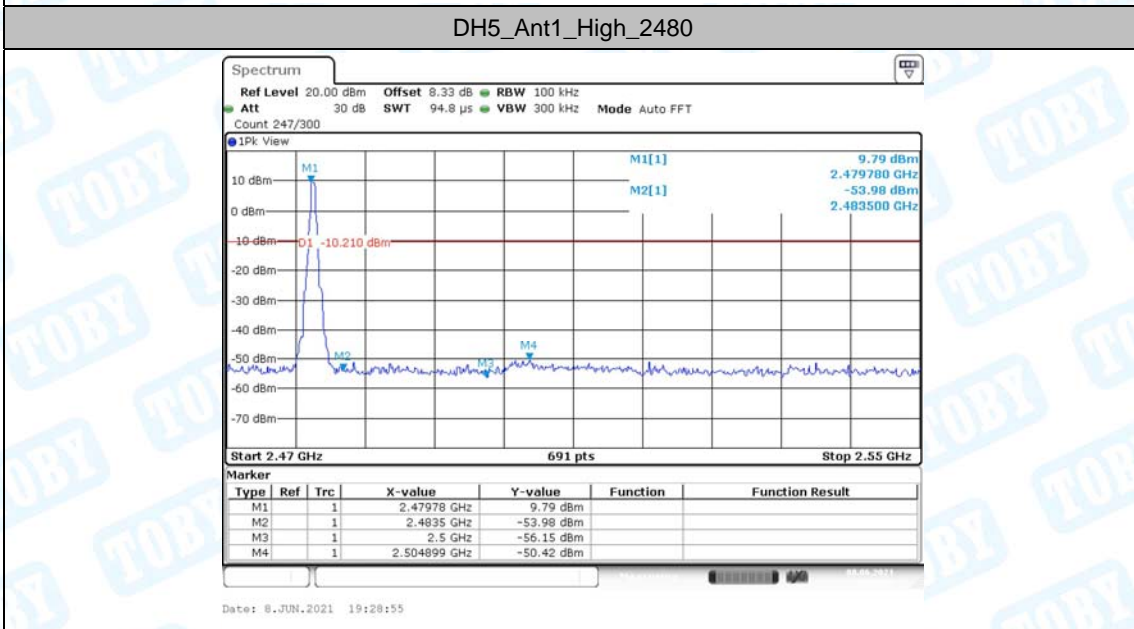
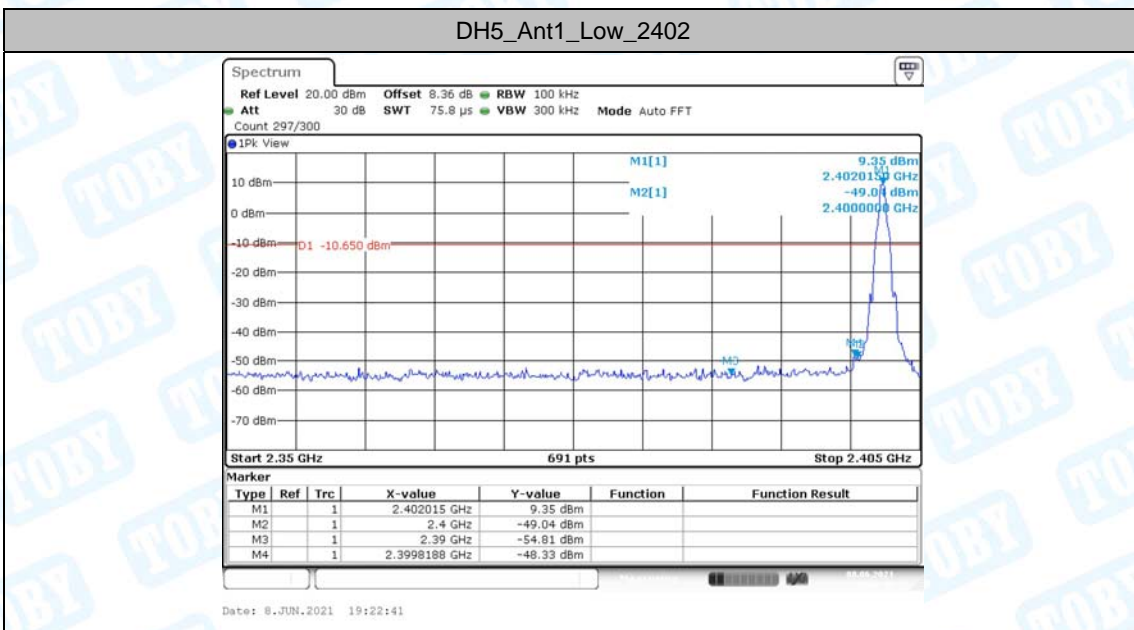


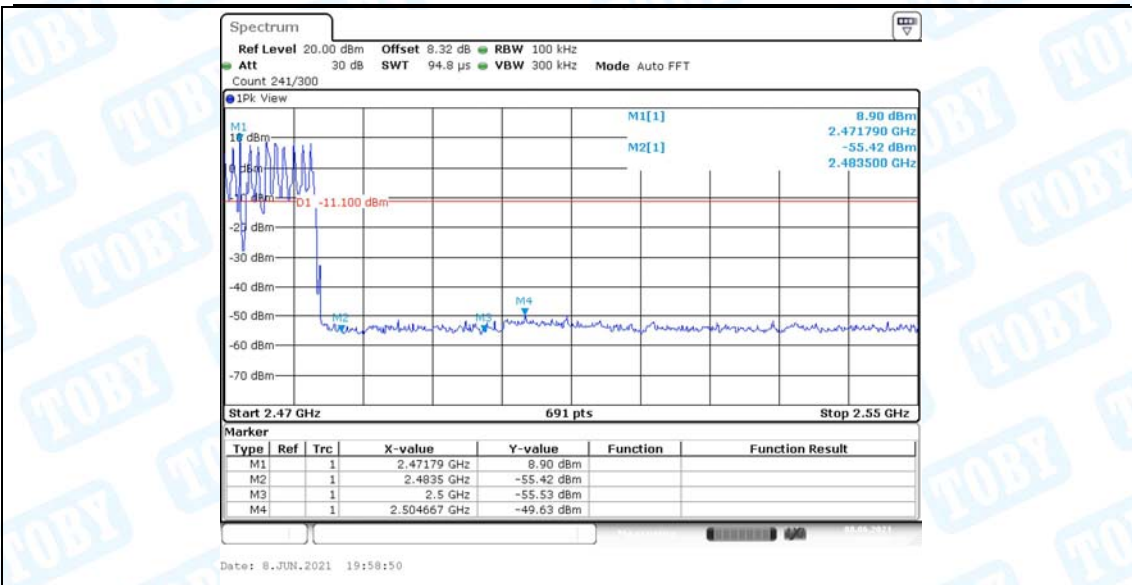
7. Band edge measurements

7.1. Test Result

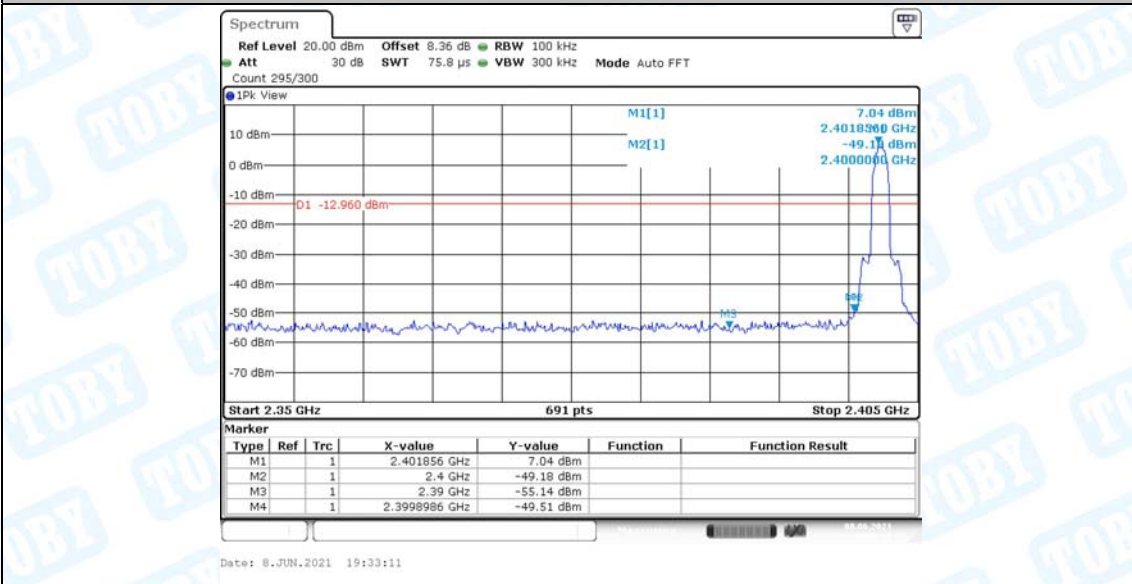
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	9.35	-48.33	<=-10.65	PASS
		High	2480	9.79	-50.42	<=-10.21	PASS
		Low	Hop_2402	9.31	-52.29	<=-10.69	PASS
		High	Hop_2480	8.90	-49.63	<=-11.1	PASS
2DH5	Ant1	Low	2402	7.04	-49.51	<=-12.96	PASS
		High	2480	8.96	-50.8	<=-11.04	PASS
		Low	Hop_2402	7.60	-52.09	<=-12.4	PASS
		High	Hop_2480	7.84	-50.82	<=-12.16	PASS
3DH5	Ant1	Low	2402	8.08	-48.82	<=-11.92	PASS
		High	2480	7.26	-49.31	<=-12.74	PASS
		Low	Hop_2402	5.04	-52.33	<=-14.96	PASS
		High	Hop_2480	6.29	-50.28	<=-13.71	PASS

7.2. Test Graphs

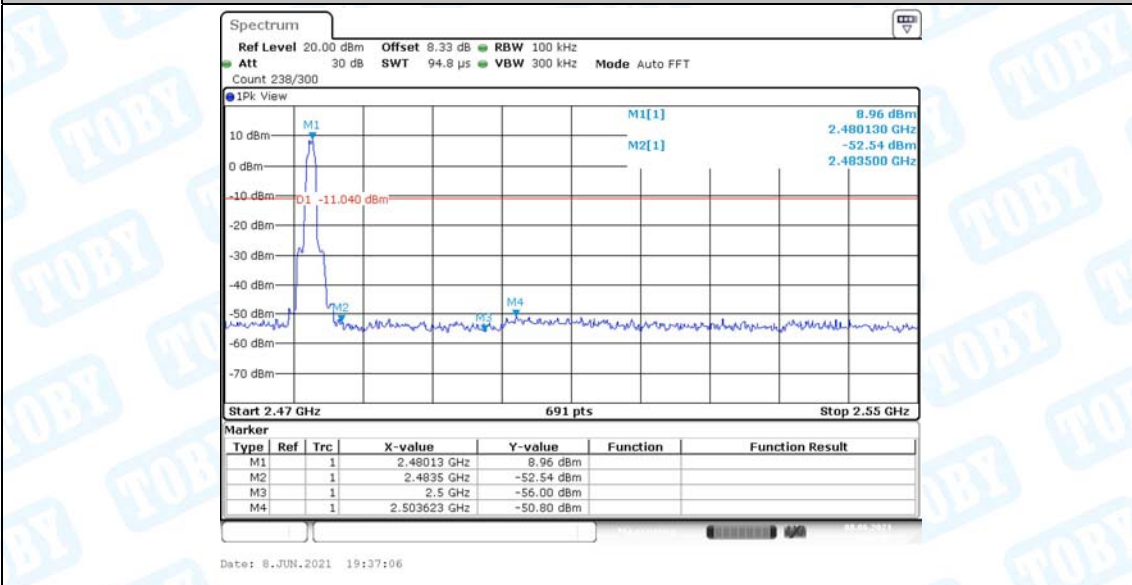




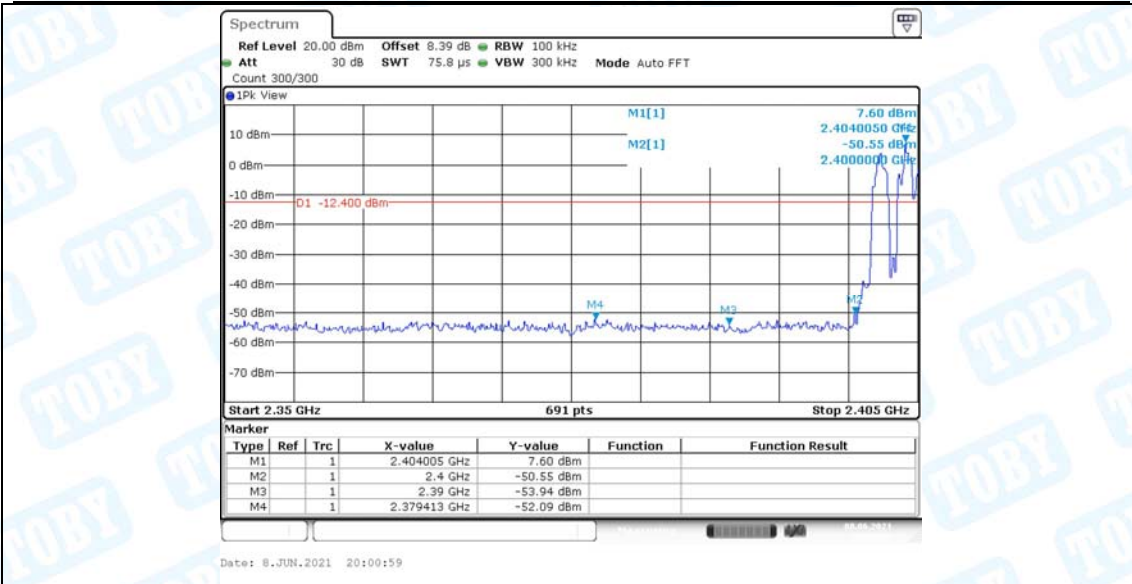
2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



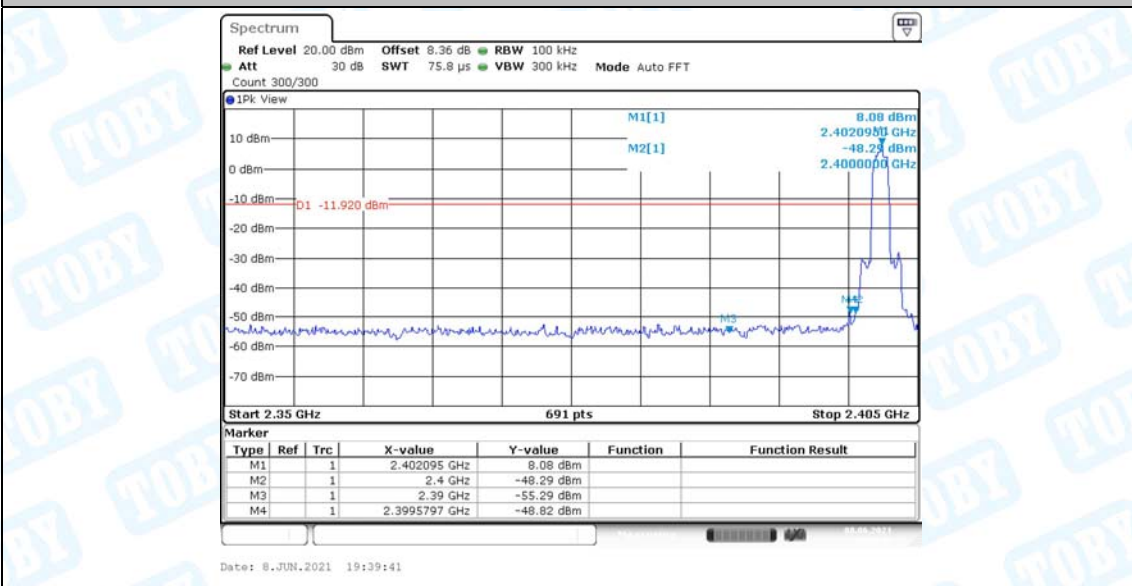
2DH5_Ant1_Low_Hop_2402



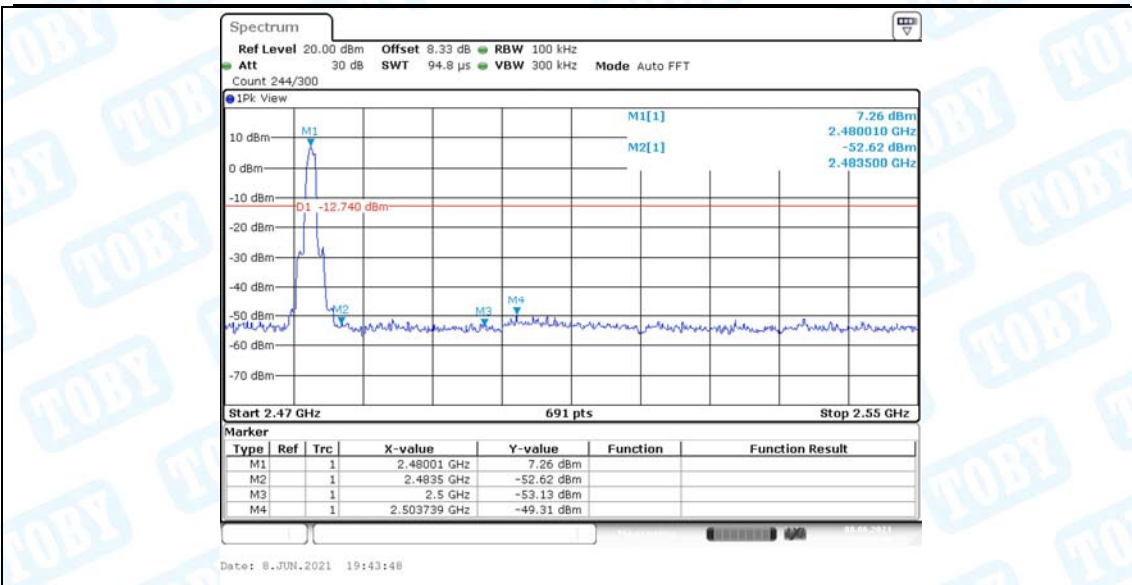
2DH5_Ant1_High_Hop_2480



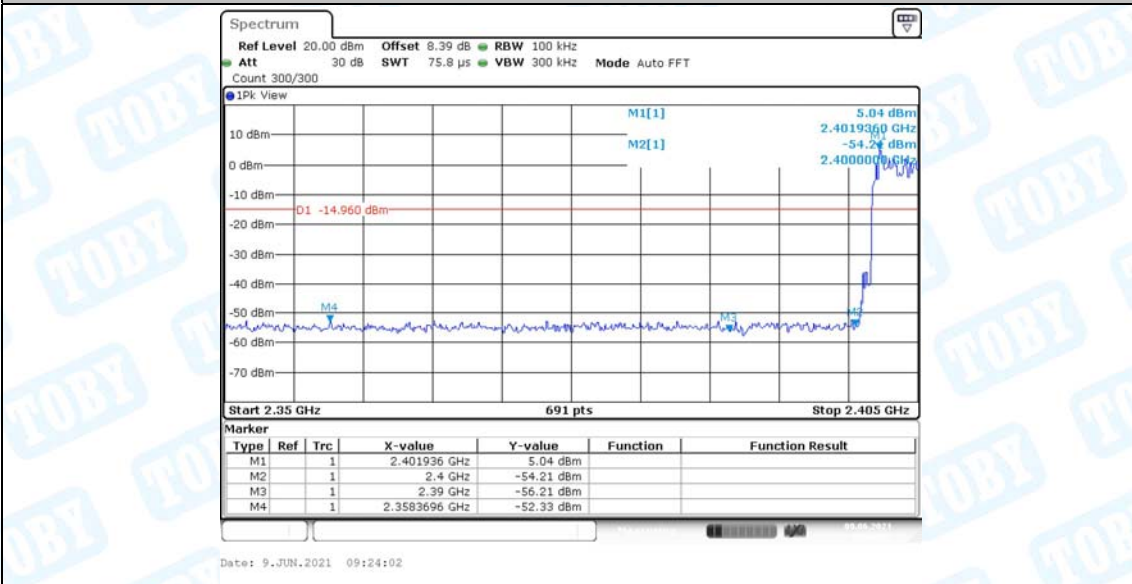
3DH5_Ant1_Low_2402



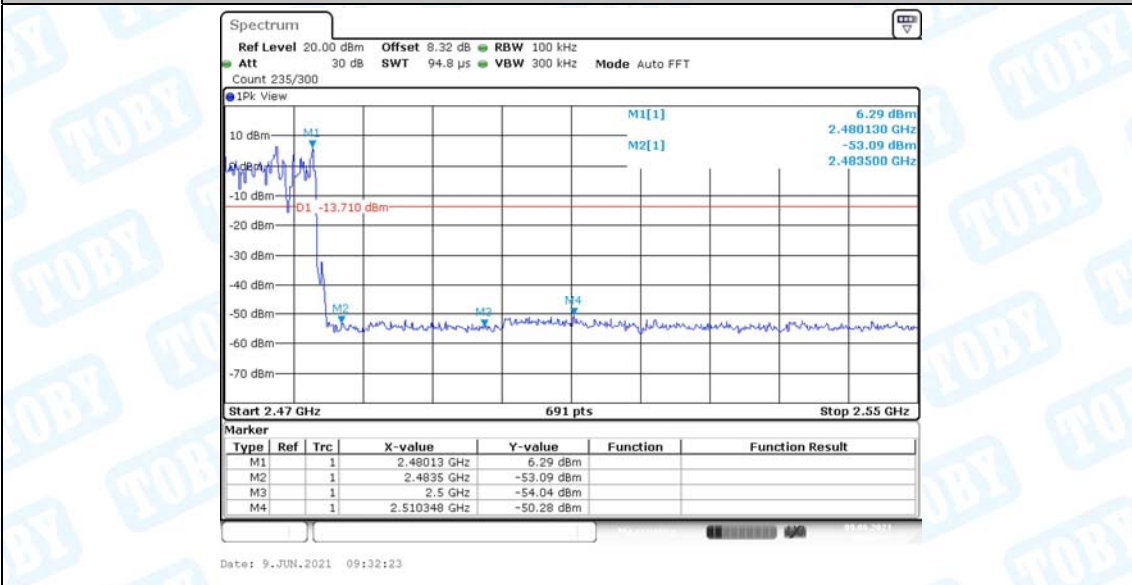
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

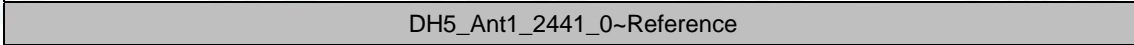
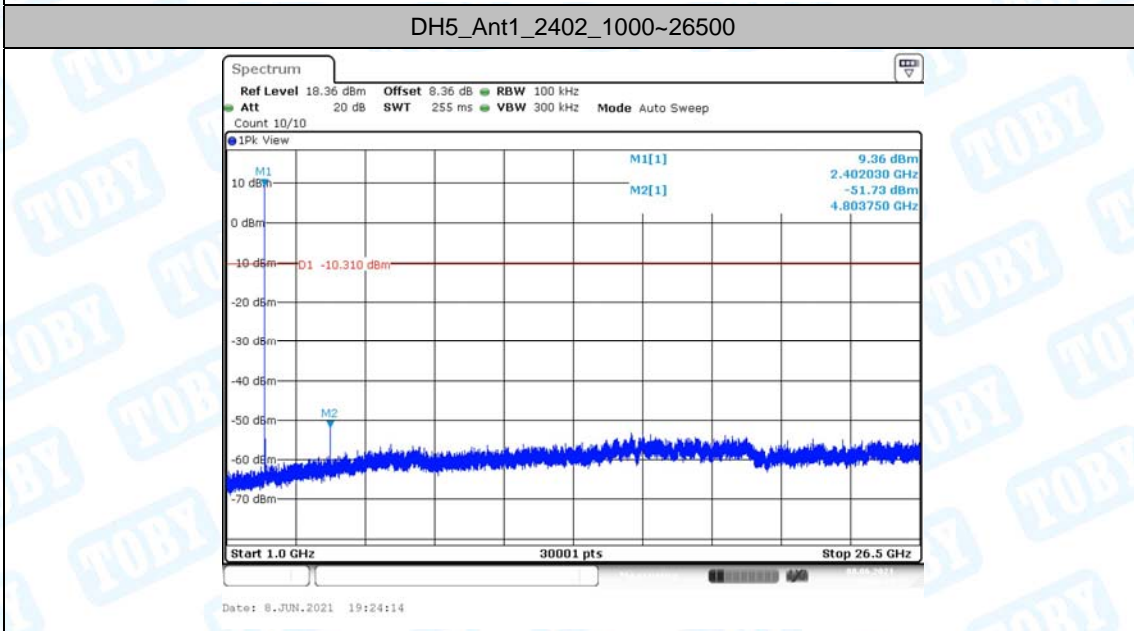
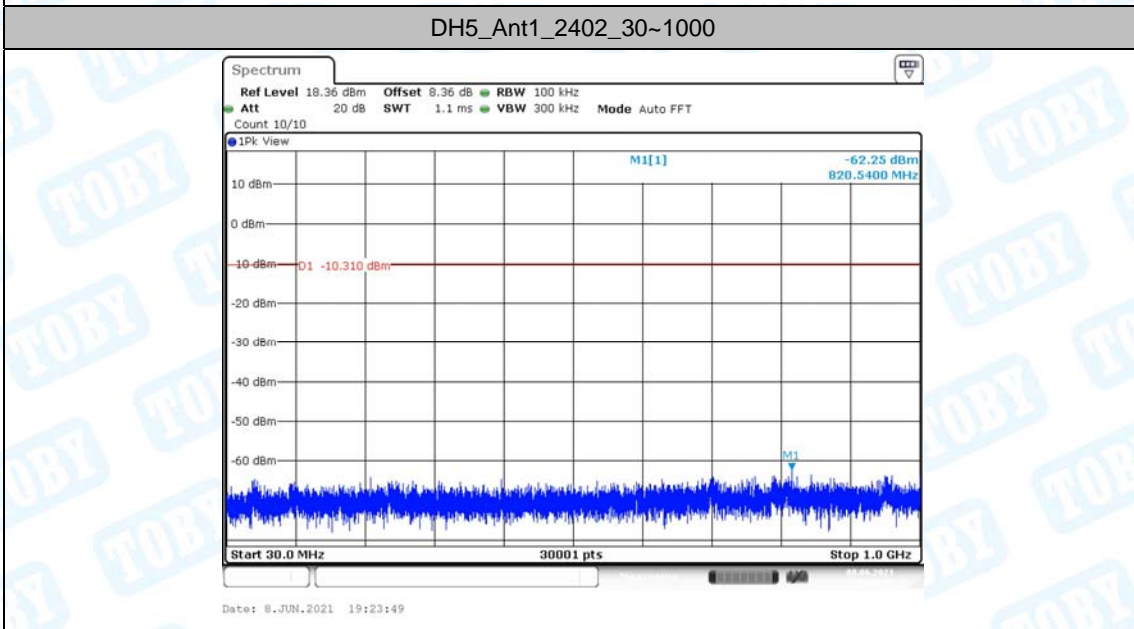
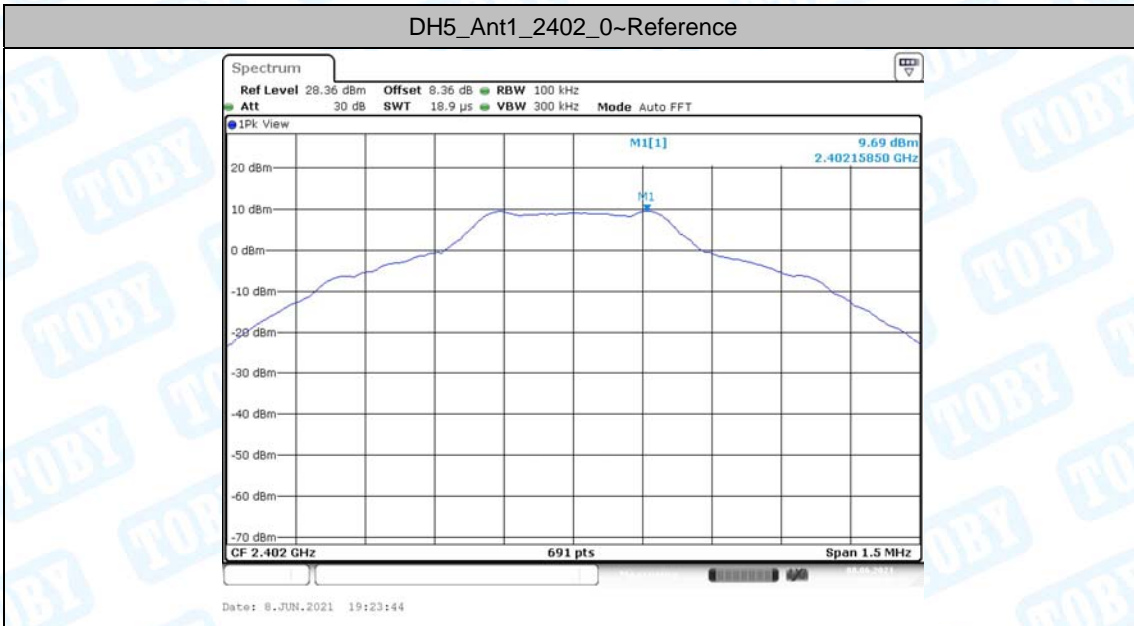


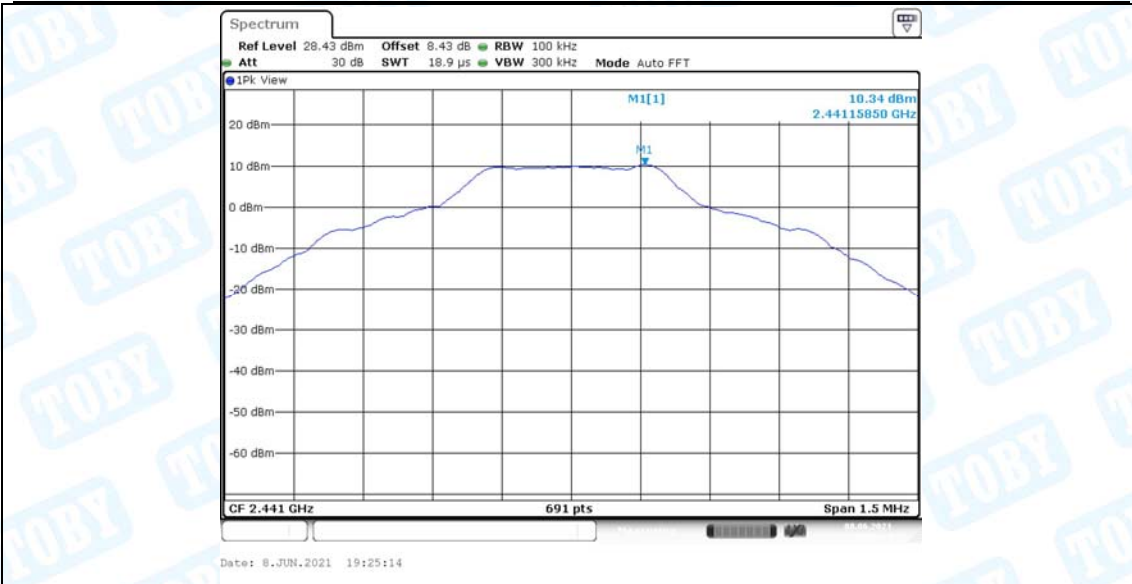
8. Conducted Spurious Emission

8.1. Test Result

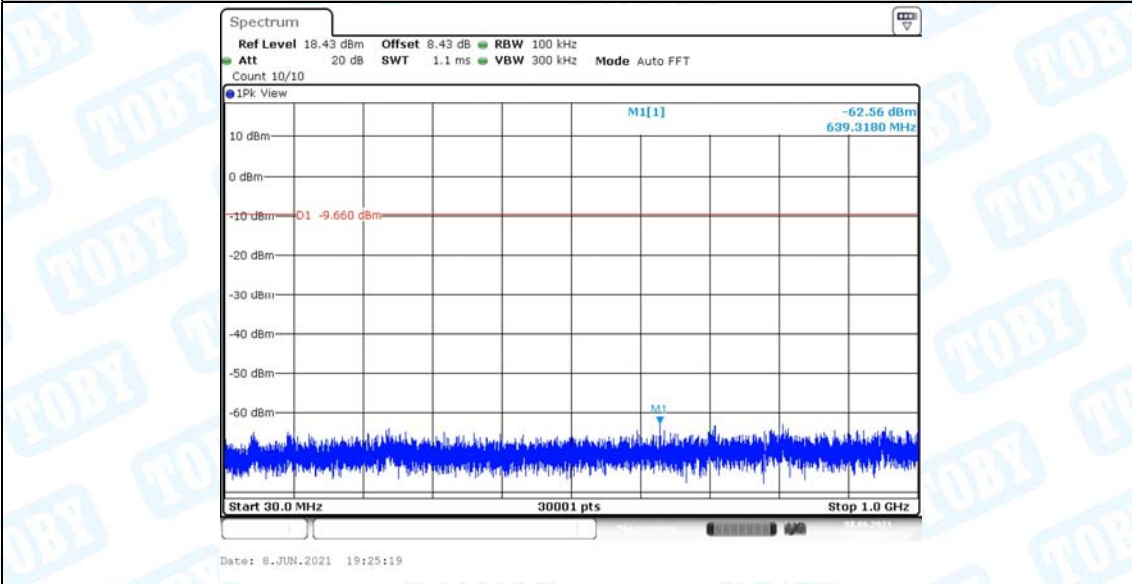
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	9.69	9.69	---	PASS
			30~1000	9.69	-62.25	<=-10.31	PASS
			1000~26500	9.69	-51.73	<=-10.31	PASS
		2441	Reference	10.34	10.34	---	PASS
			30~1000	10.34	-62.56	<=-9.66	PASS
			1000~26500	10.34	-53.05	<=-9.66	PASS
		2480	Reference	10.01	10.01	---	PASS
			30~1000	10.01	-62.49	<=-9.99	PASS
			1000~26500	10.01	-51.76	<=-9.99	PASS
2DH5	Ant1	2402	Reference	8.89	8.89	---	PASS
			30~1000	8.89	-61.9	<=-11.11	PASS
			1000~26500	8.89	-53.5	<=-11.11	PASS
		2441	Reference	9.54	9.54	---	PASS
			30~1000	9.54	-63.11	<=-10.46	PASS
			1000~26500	9.54	-53.04	<=-10.46	PASS
		2480	Reference	9.23	9.23	---	PASS
			30~1000	9.23	-62.96	<=-10.77	PASS
			1000~26500	9.23	-53.36	<=-10.77	PASS
3DH5	Ant1	2402	Reference	8.76	8.76	---	PASS
			30~1000	8.76	-62.61	<=-11.24	PASS
			1000~26500	8.76	-53.01	<=-11.24	PASS
		2441	Reference	9.50	9.50	---	PASS
			30~1000	9.50	-61.87	<=-10.5	PASS
			1000~26500	9.50	-52.55	<=-10.5	PASS
		2480	Reference	9.21	9.21	---	PASS
			30~1000	9.21	-62.66	<=-10.79	PASS
			1000~26500	9.21	-53.02	<=-10.79	PASS

8.2.Test Graphs

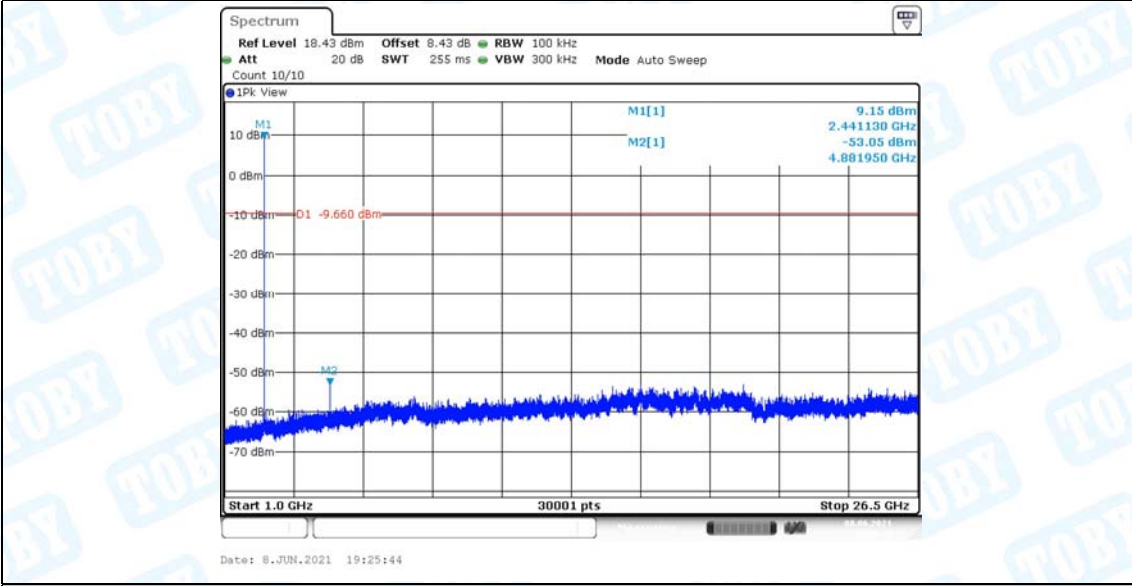




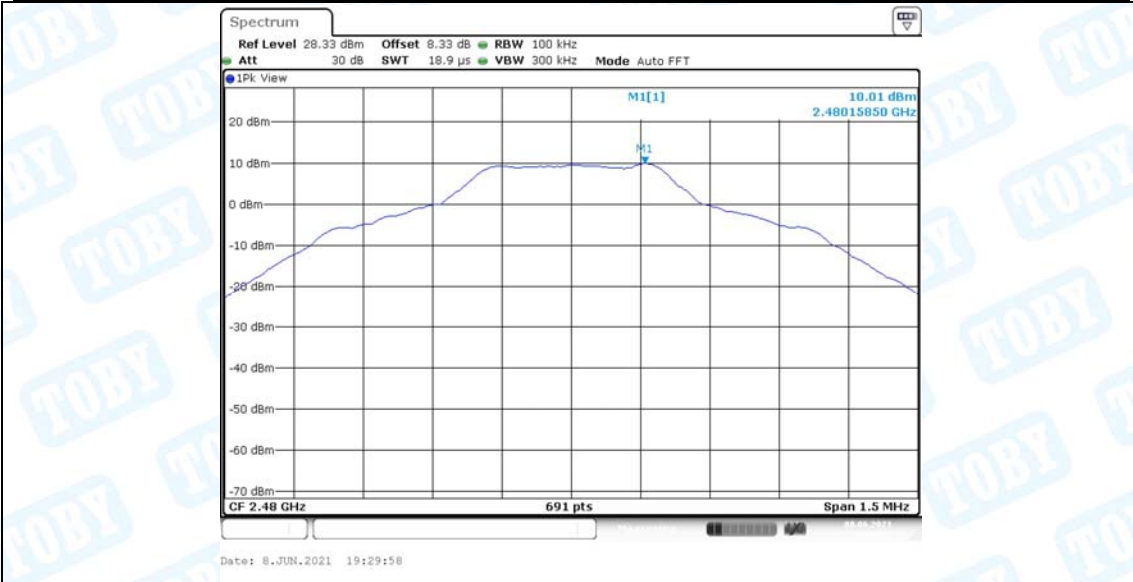
DH5_Ant1_2441_30~1000



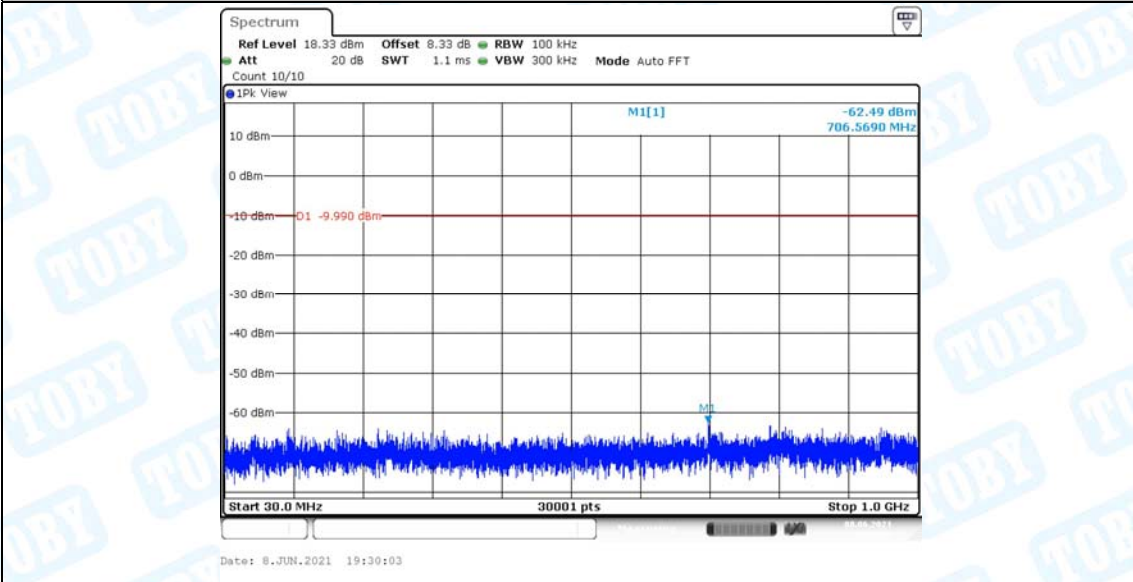
DH5_Ant1_2441_1000~26500



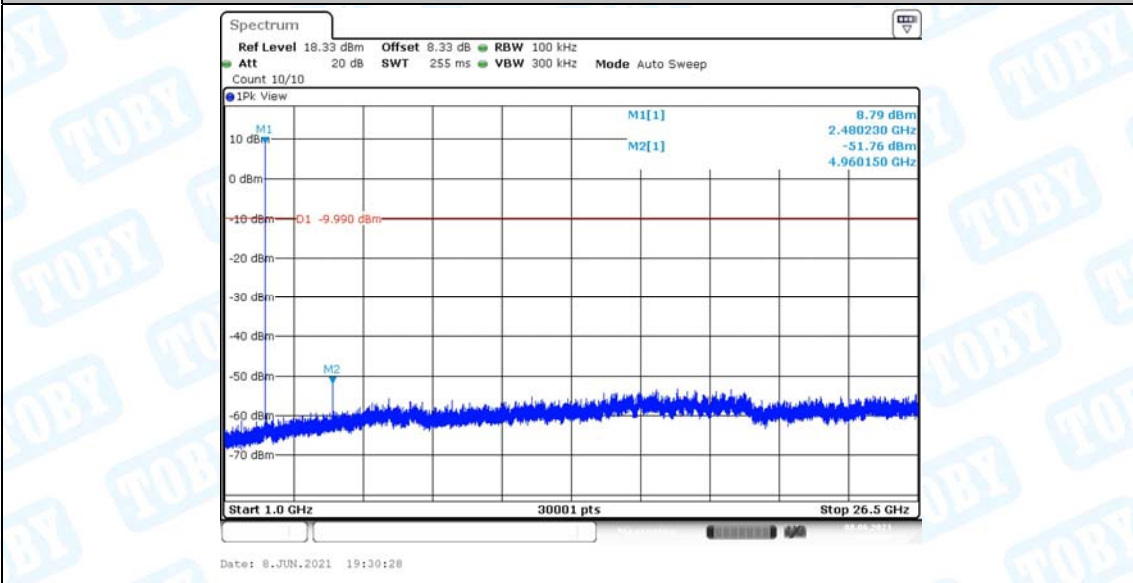
DH5_Ant1_2480_0~Reference



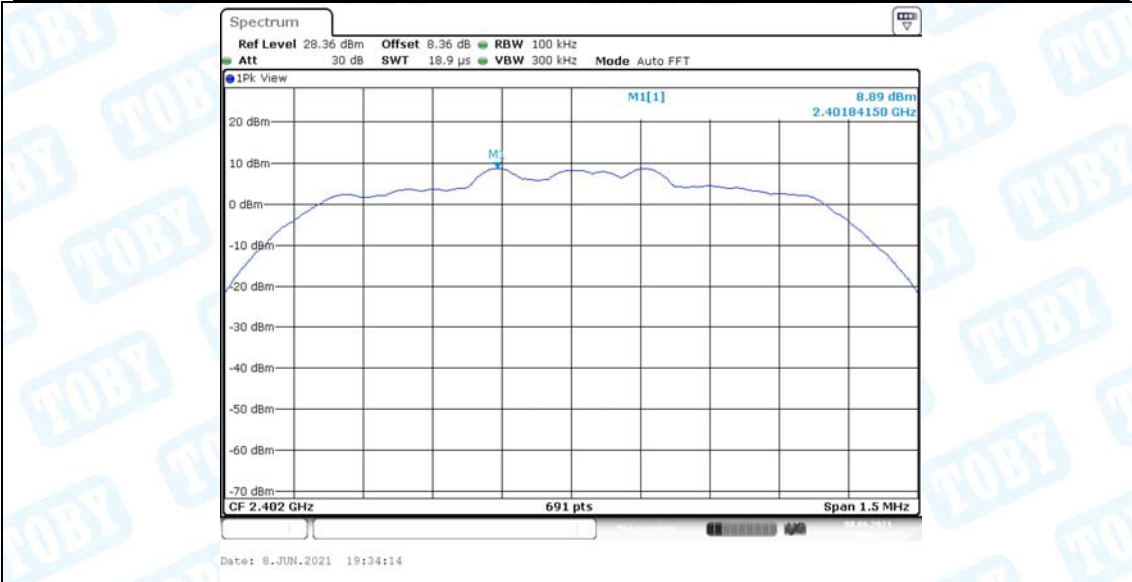
DH5_Ant1_2480_30~1000



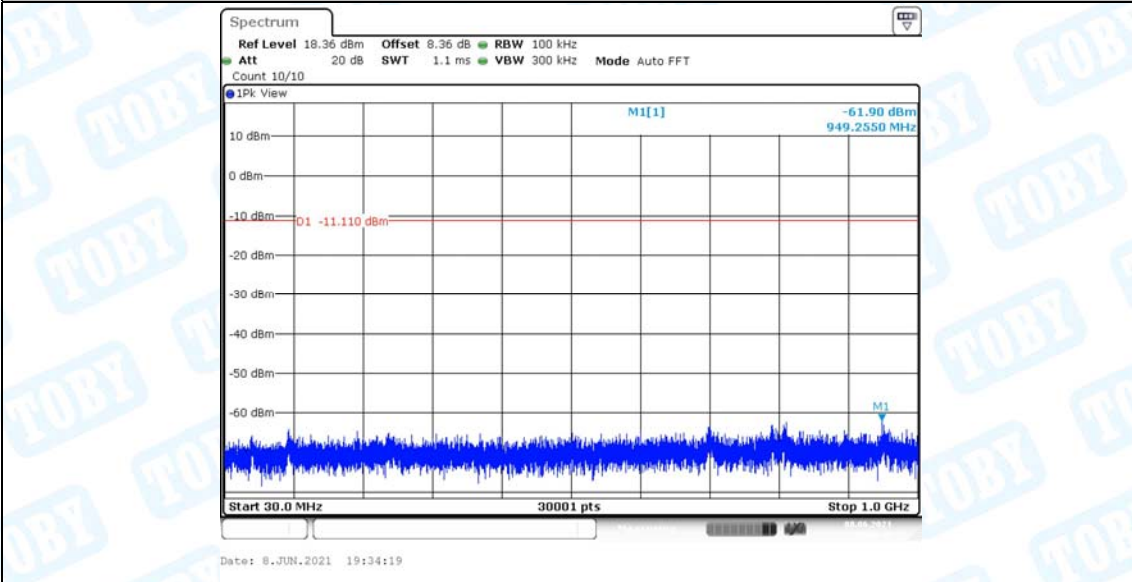
DH5_Ant1_2480_1000~26500



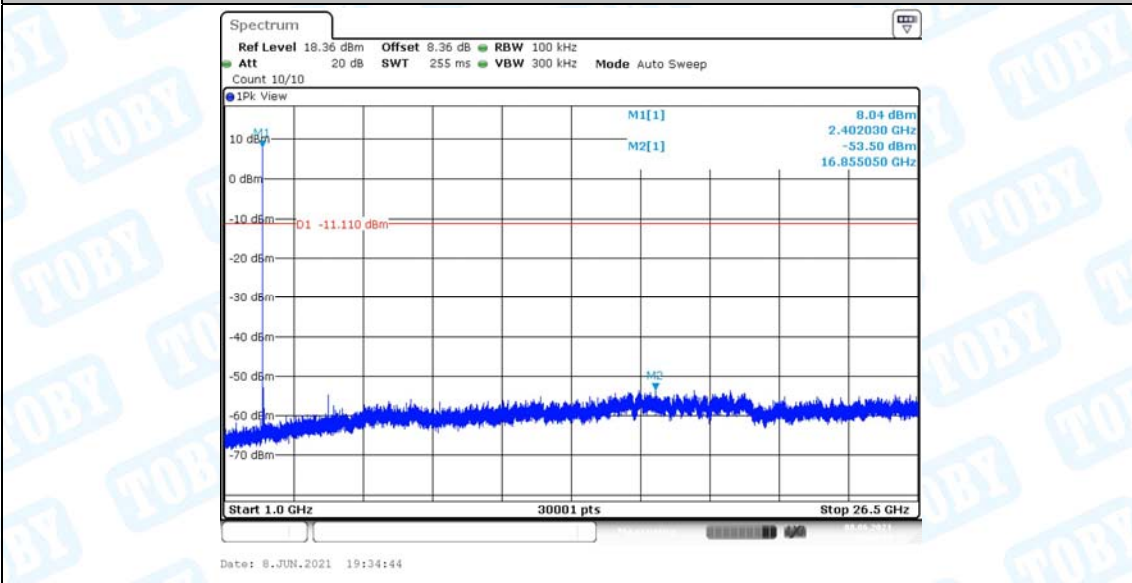
2DH5_Ant1_2402_0~Reference



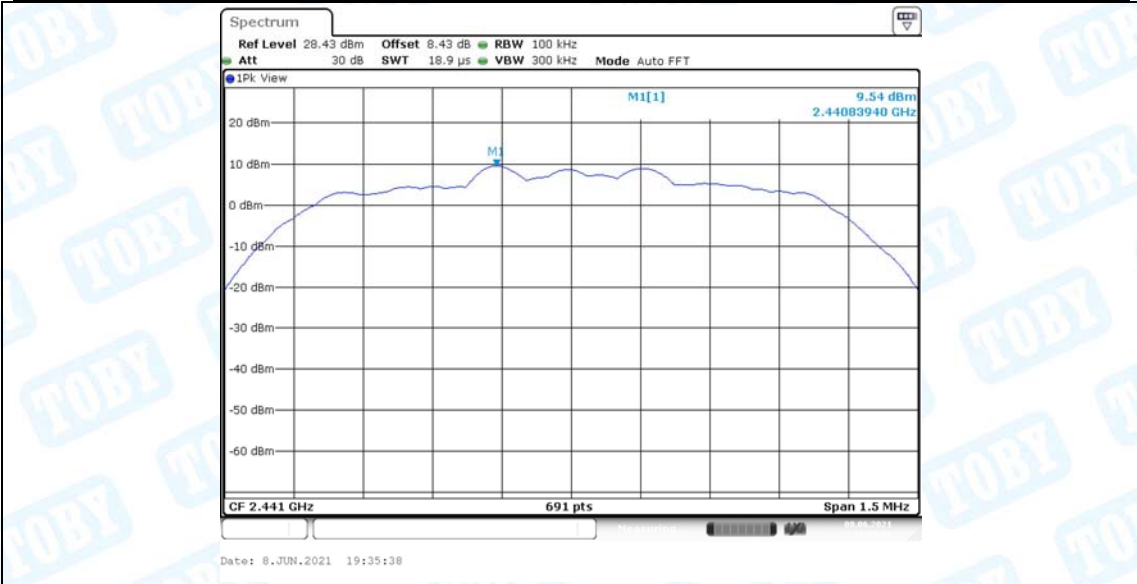
2DH5_Ant1_2402_30~1000



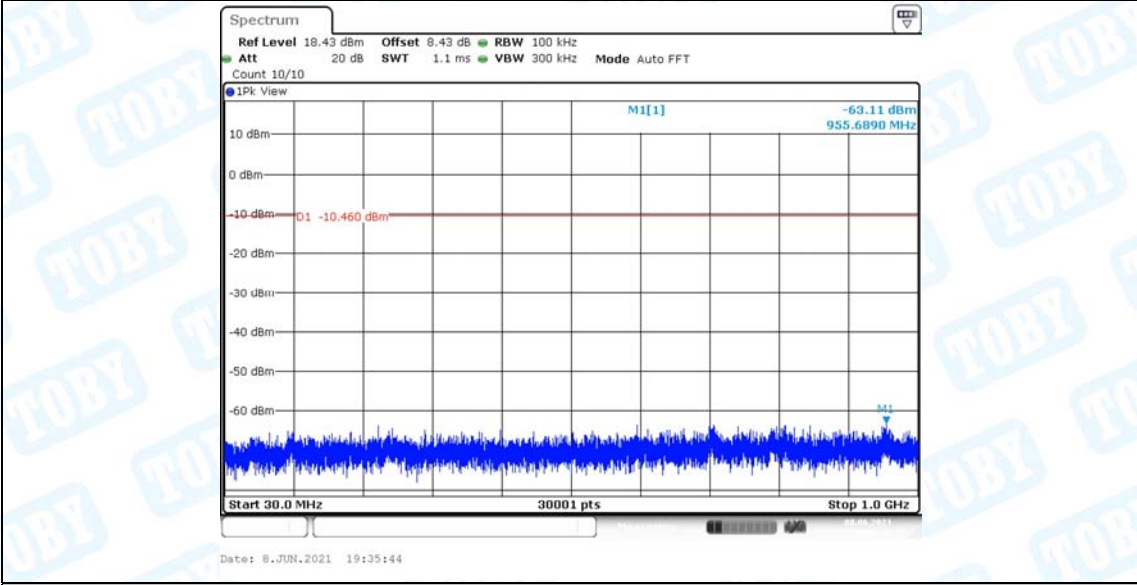
2DH5_Ant1_2402_1000~26500



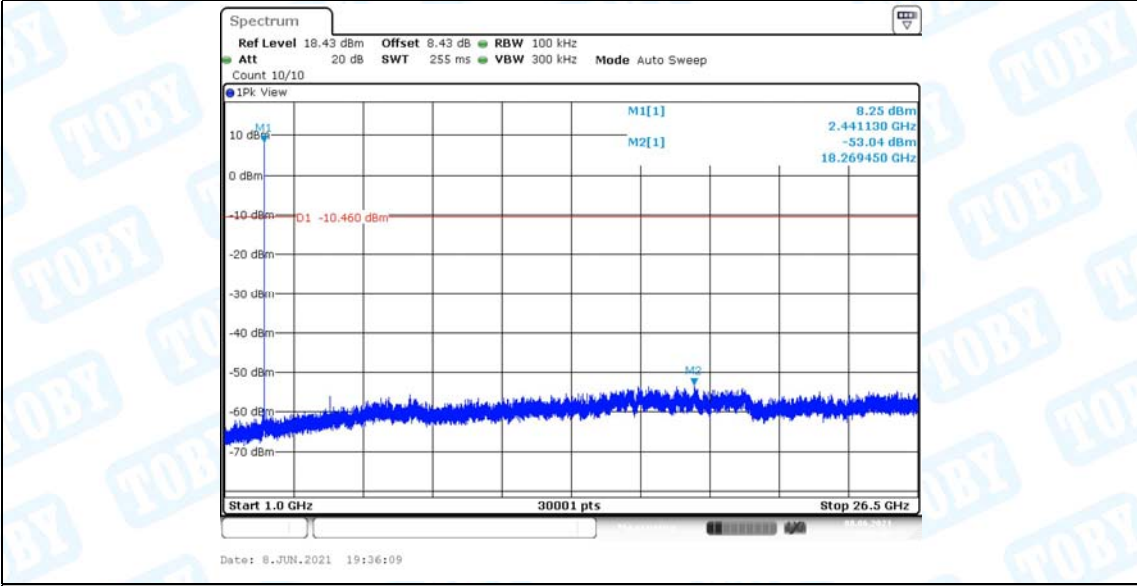
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



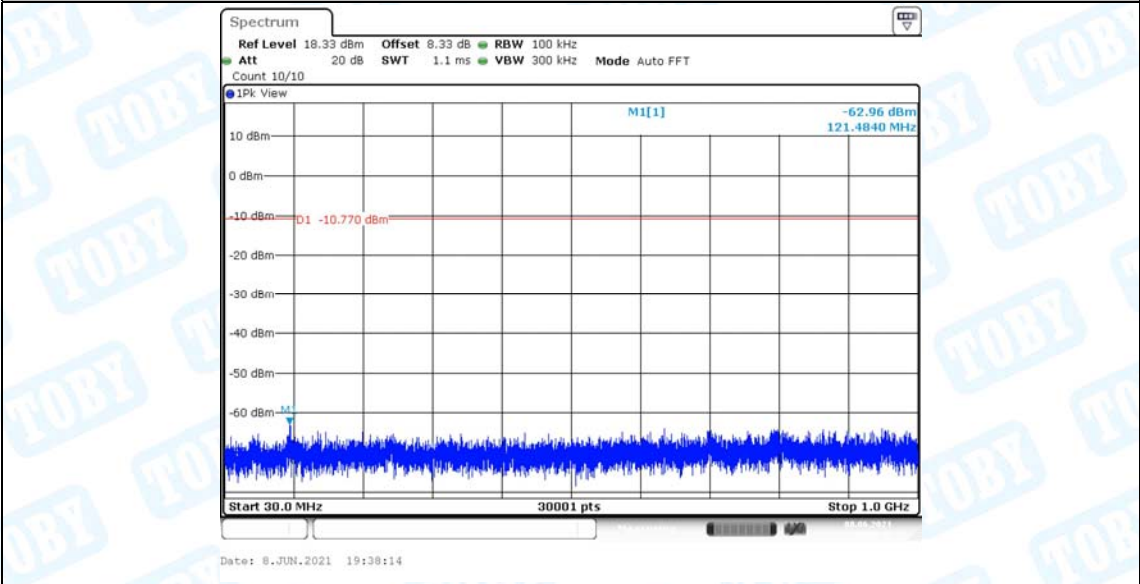
2DH5_Ant1_2441_1000~26500



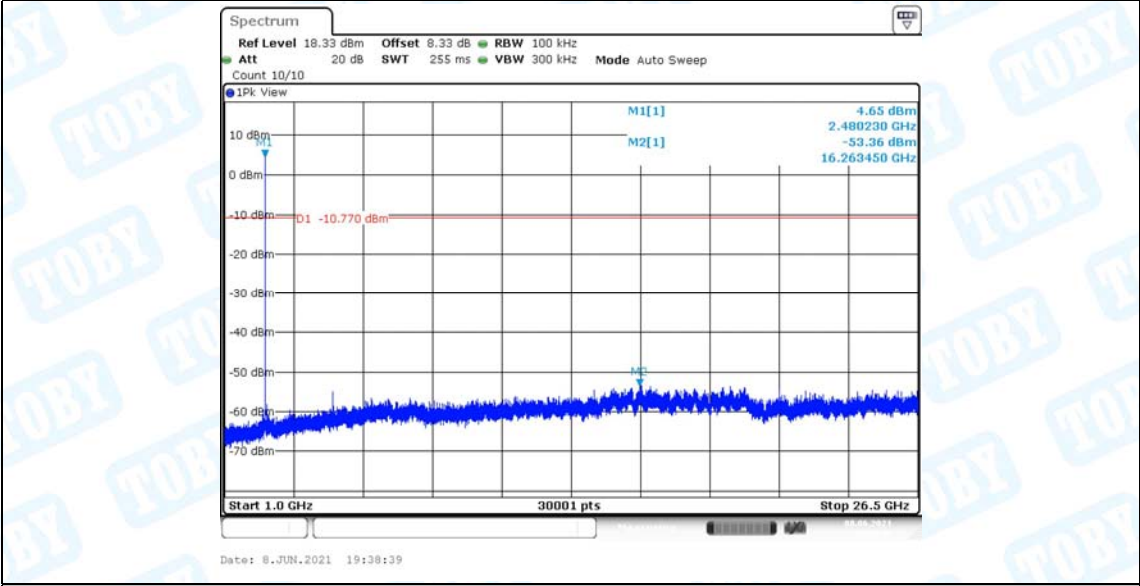
2DH5_Ant1_2480_0~Reference



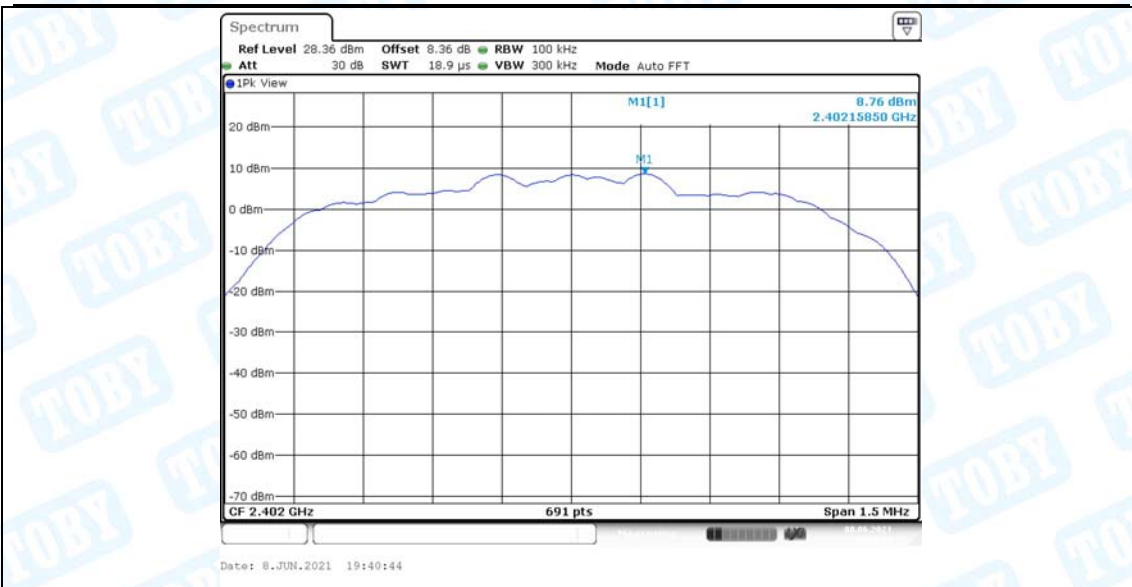
2DH5_Ant1_2480_30~1000



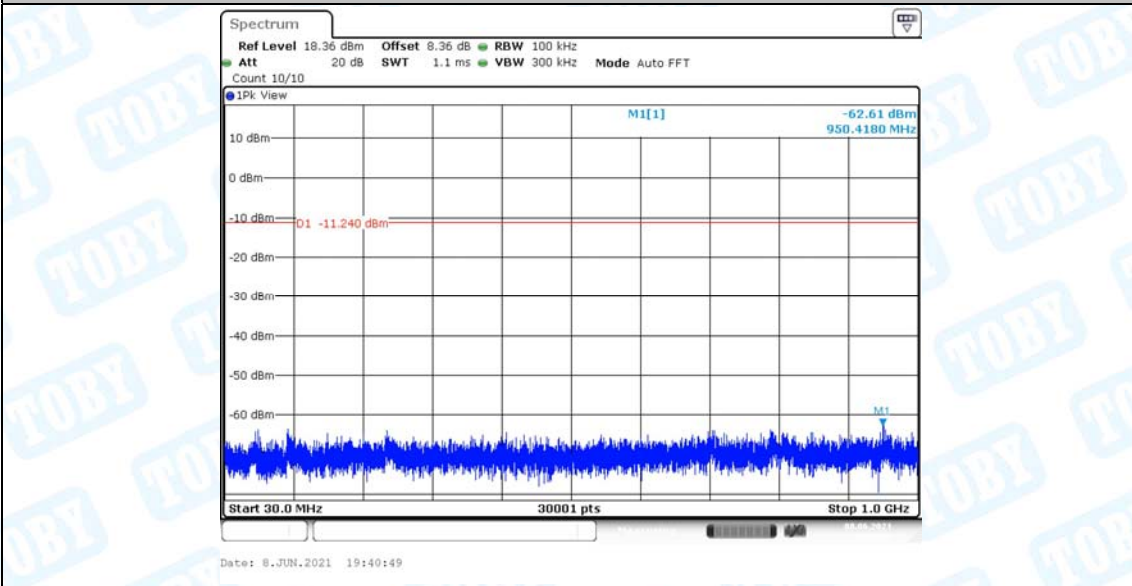
2DH5_Ant1_2480_1000~26500



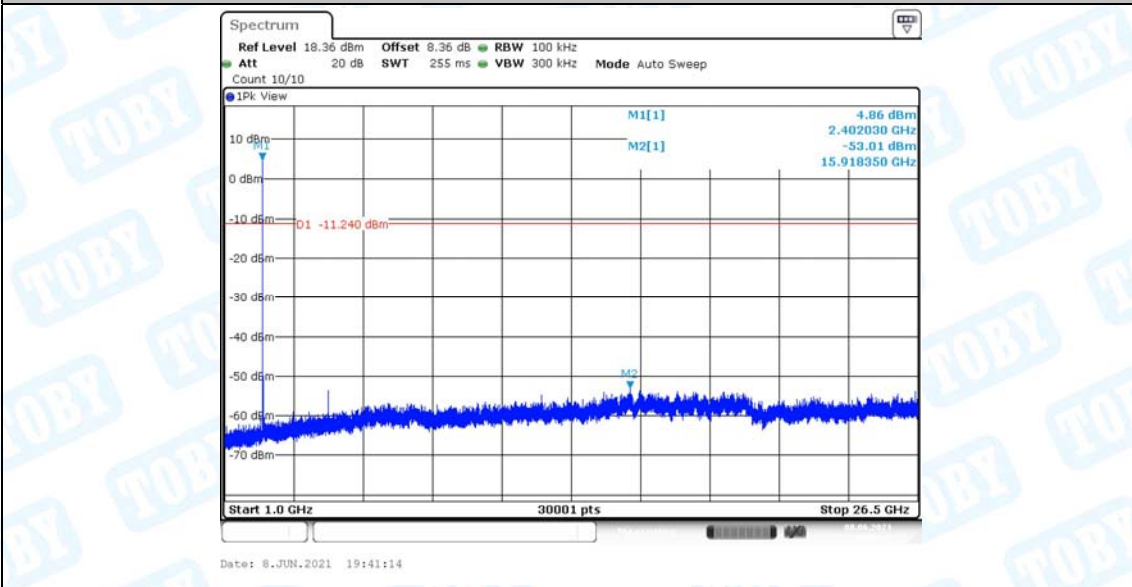
3DH5_Ant1_2402_0~Reference



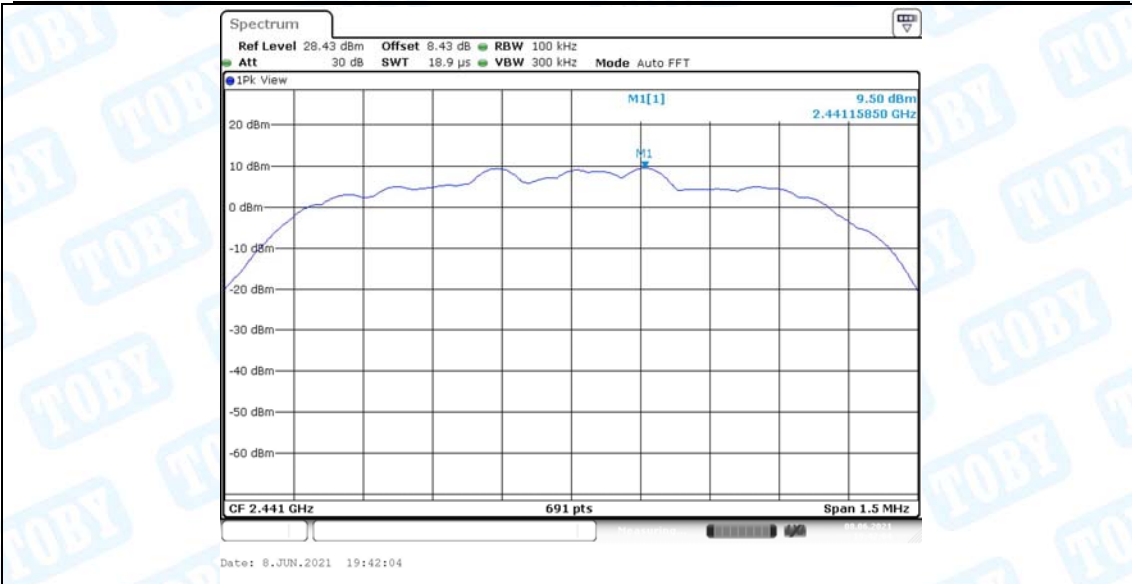
3DH5_Ant1_2402_30~1000



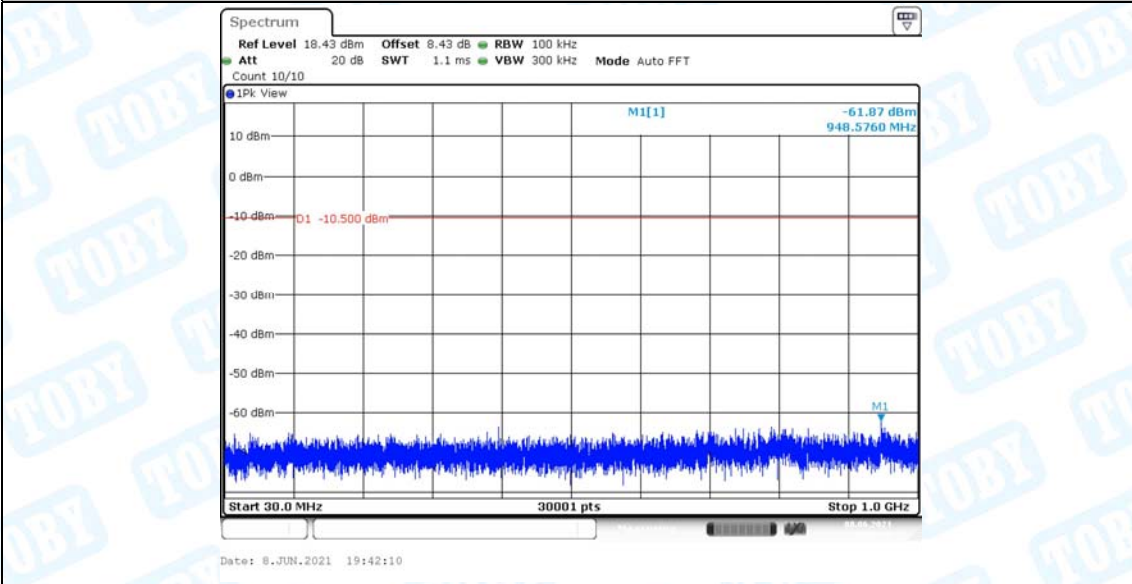
3DH5_Ant1_2402_1000~26500



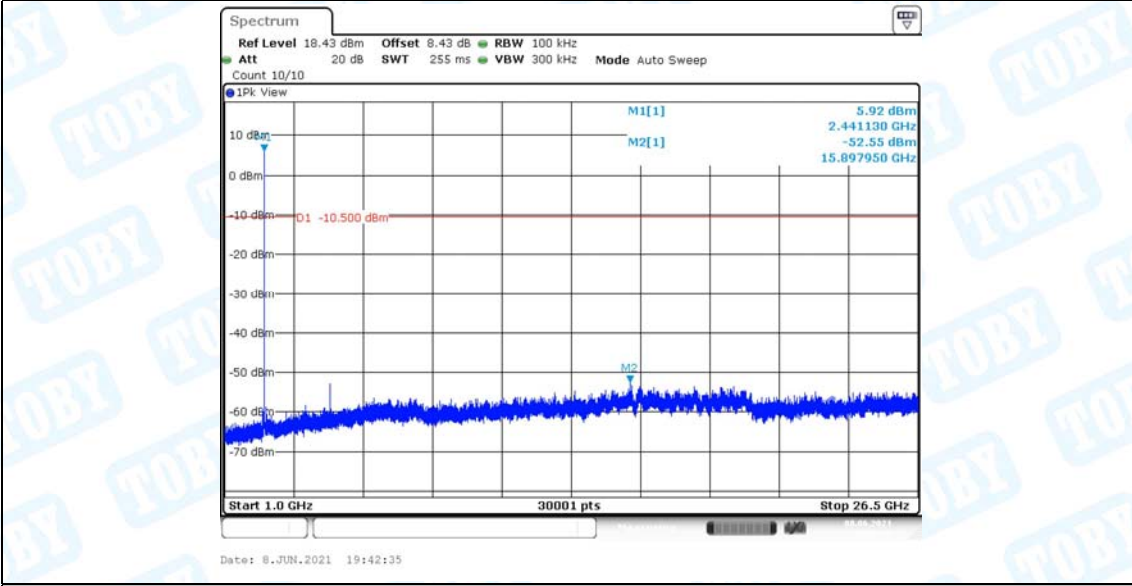
3DH5_Ant1_2441_0~Reference



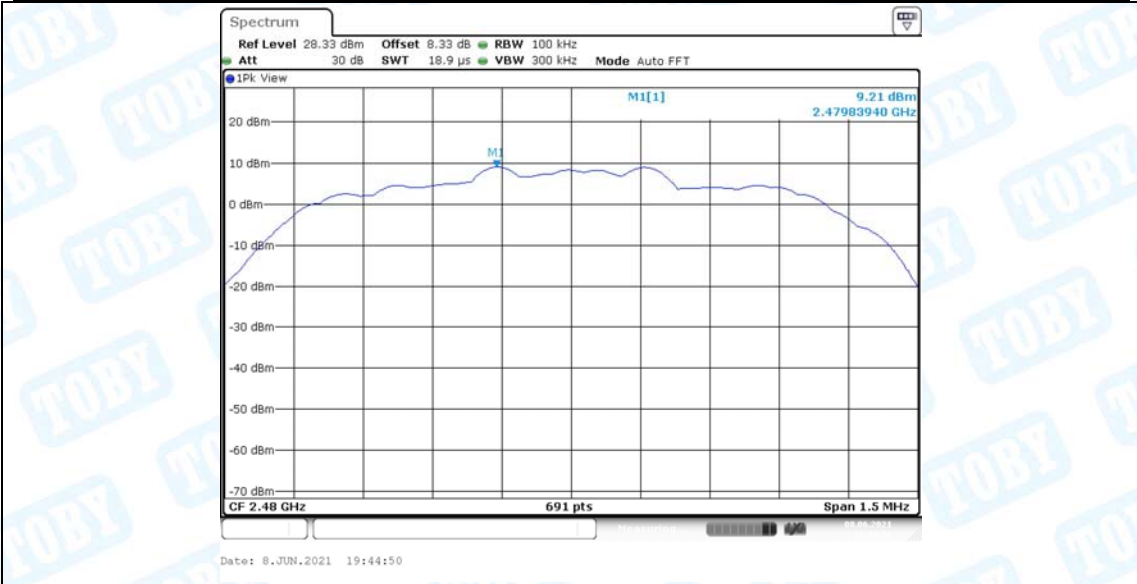
3DH5_Ant1_2441_30~1000



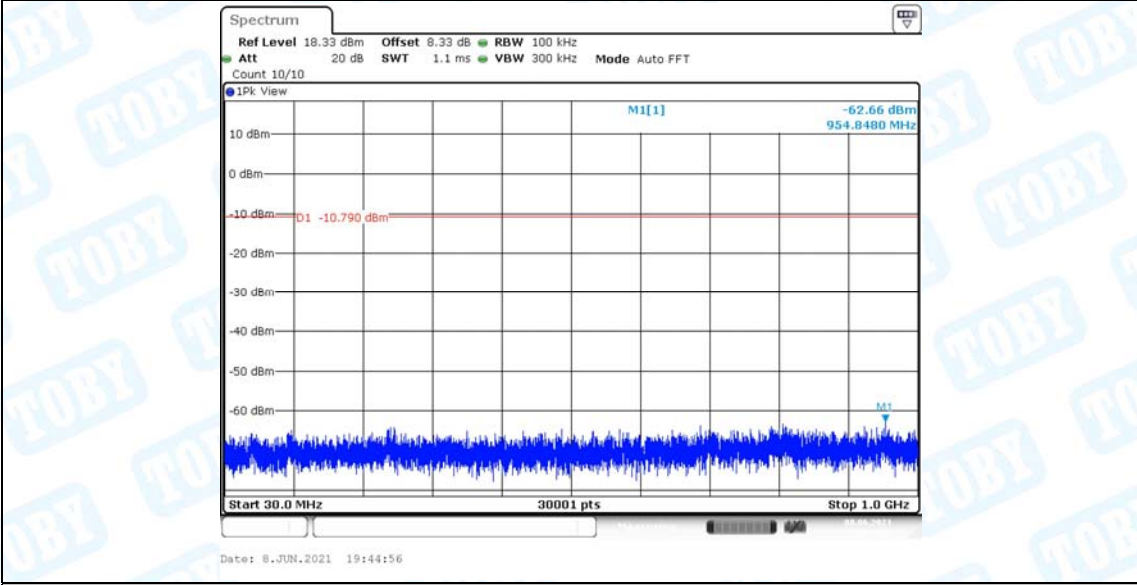
3DH5_Ant1_2441_1000~26500



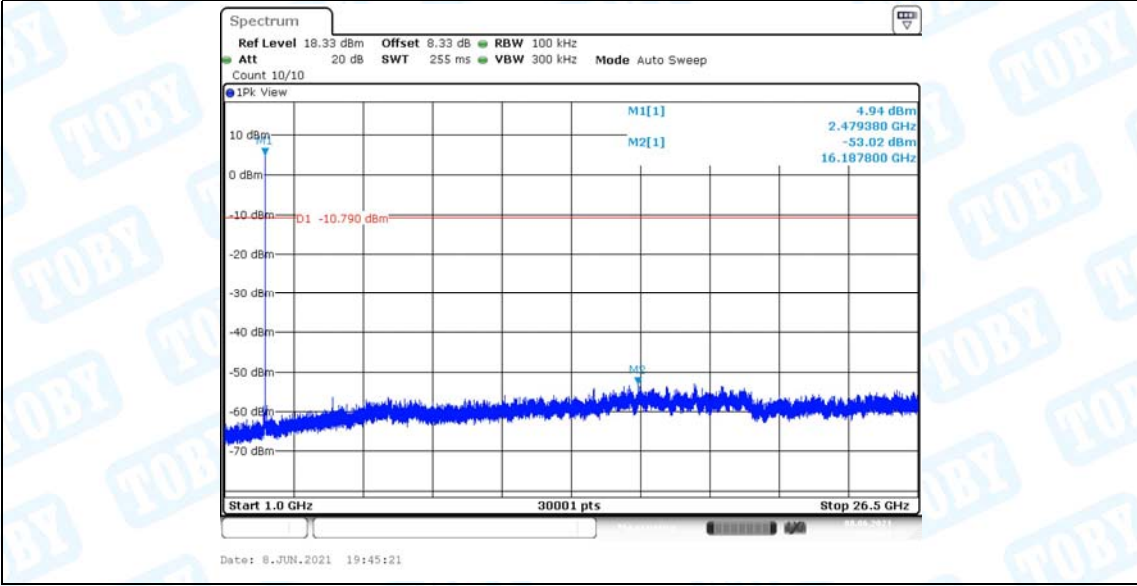
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

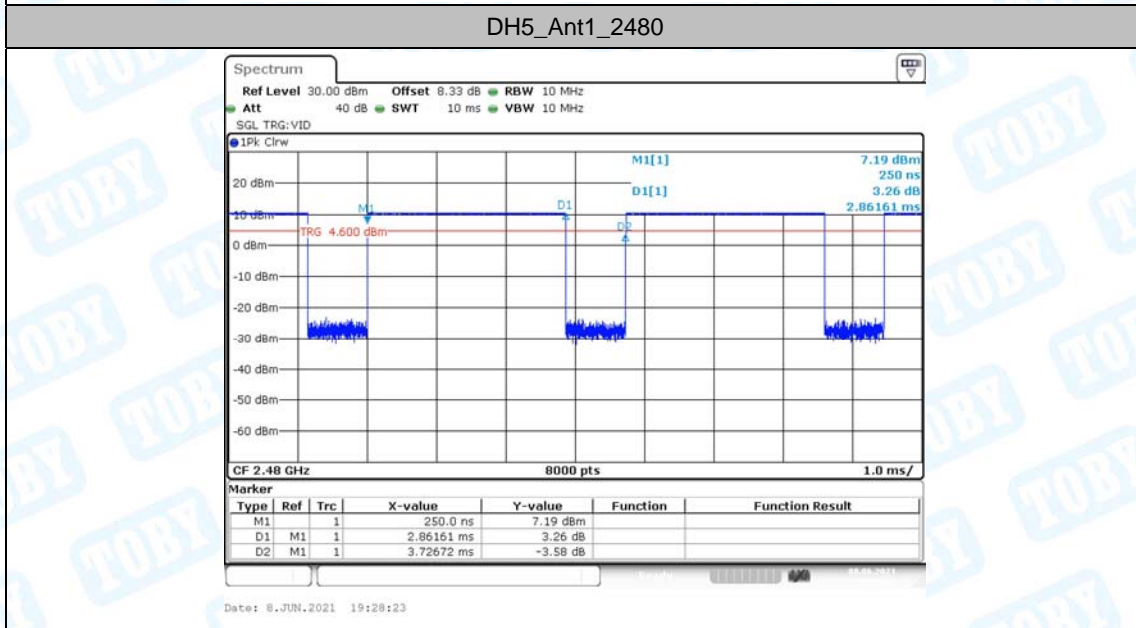
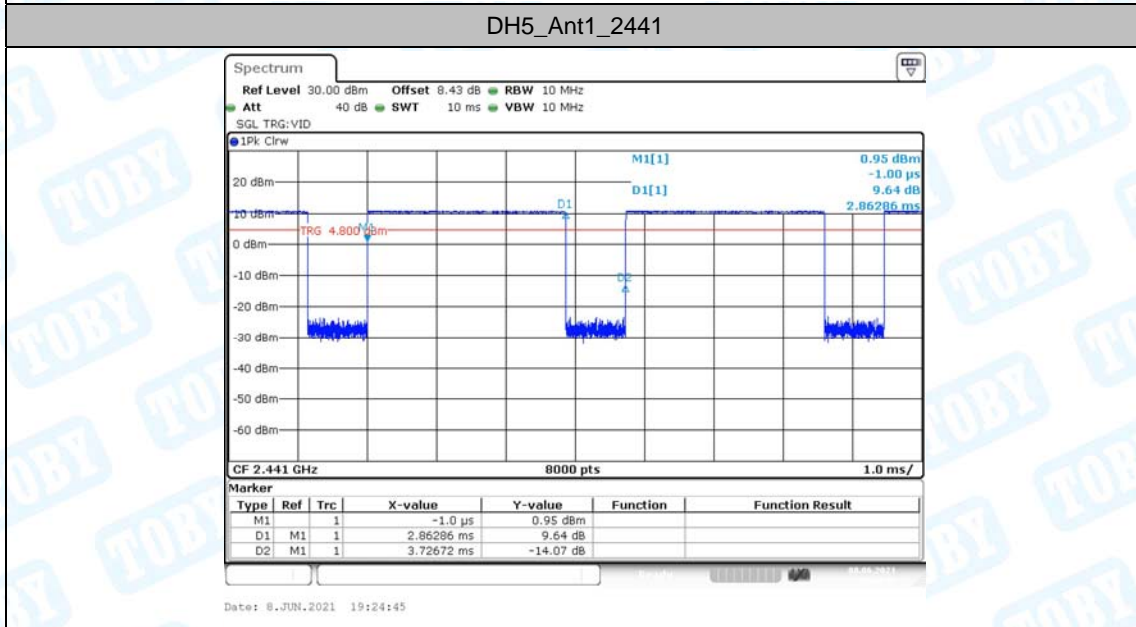
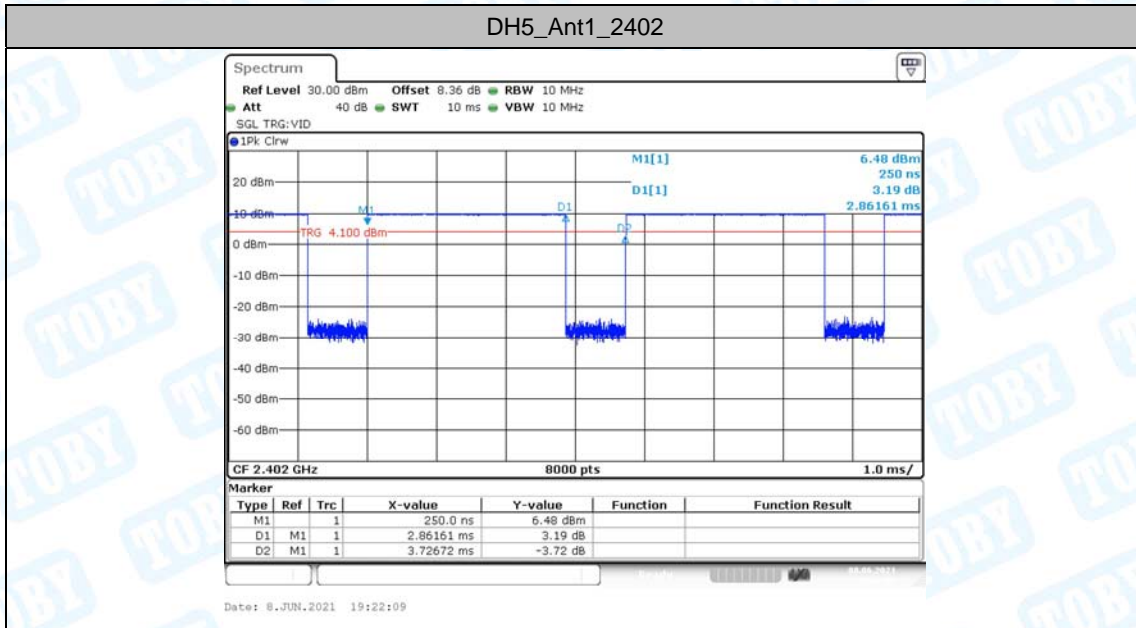


9. Duty Cycle

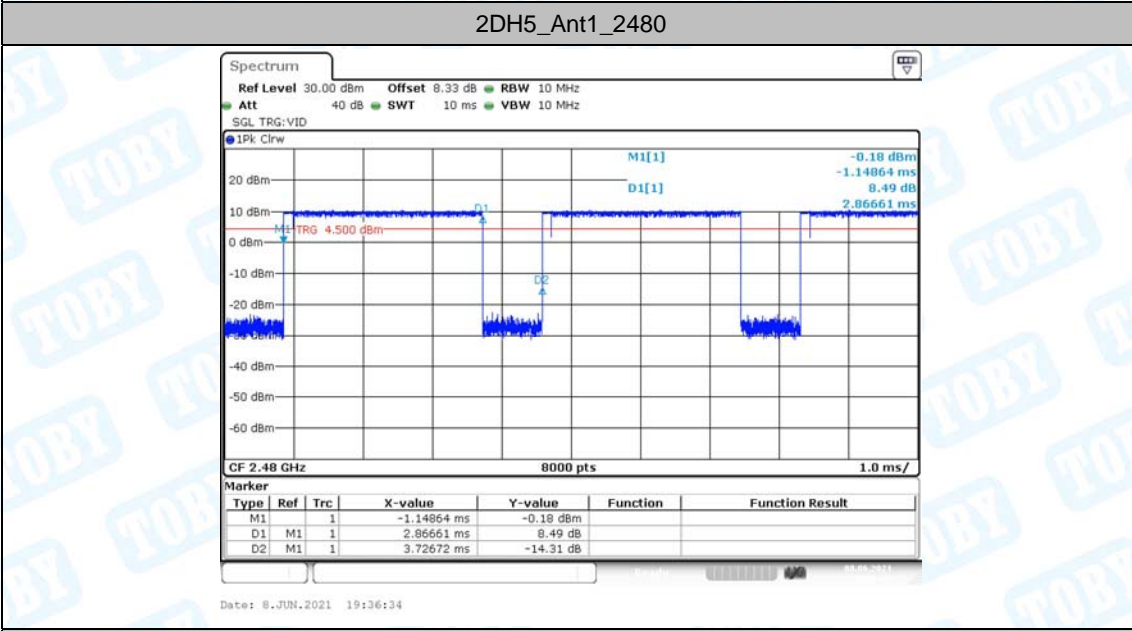
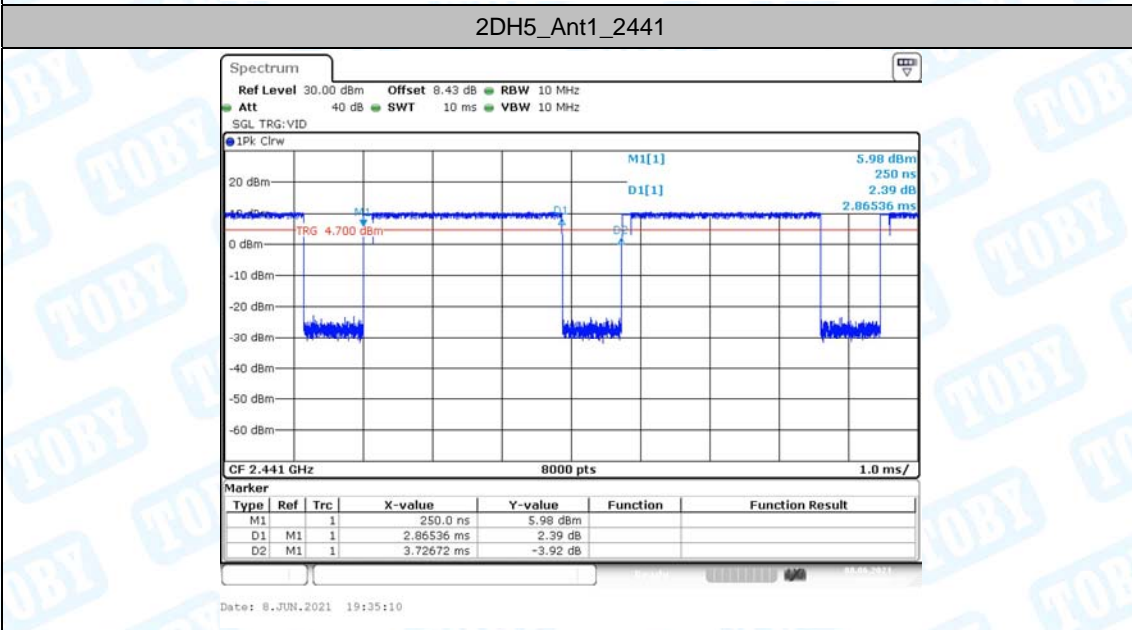
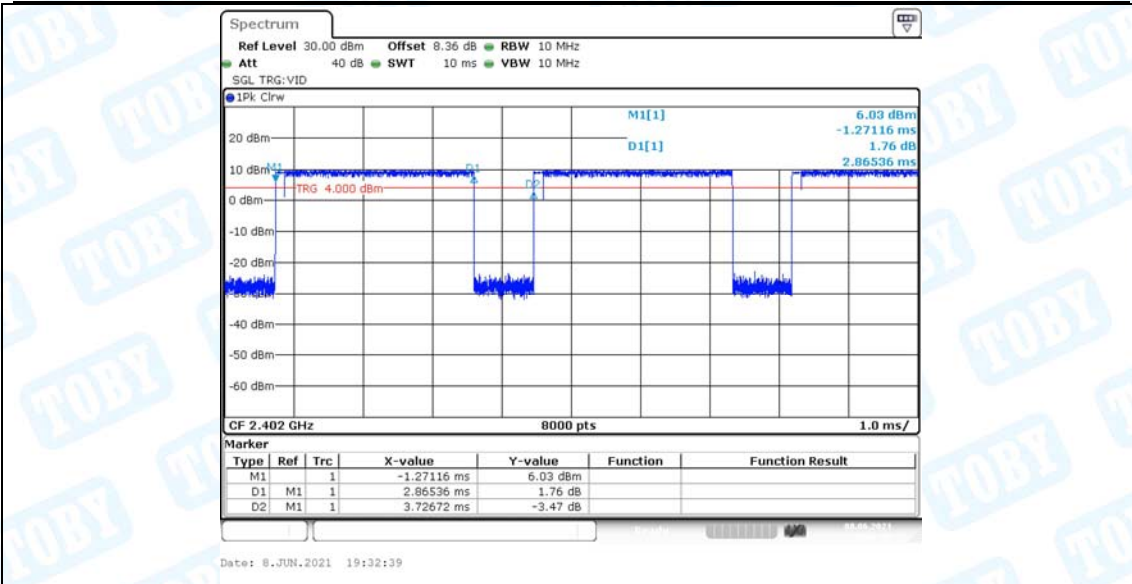
9.1. Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.86	3.73	76.68	---	PASS
		2441	2.86	3.73	76.68	---	PASS
		2480	2.86	3.73	76.68	---	PASS
2DH5	Ant1	2402	2.87	3.73	76.94	---	PASS
		2441	2.87	3.73	76.94	---	PASS
		2480	2.87	3.73	76.94	---	PASS
3DH5	Ant1	2402	2.87	3.73	76.94	---	PASS
		2441	2.87	3.73	76.94	---	PASS
		2480	2.87	3.73	76.94	---	PASS

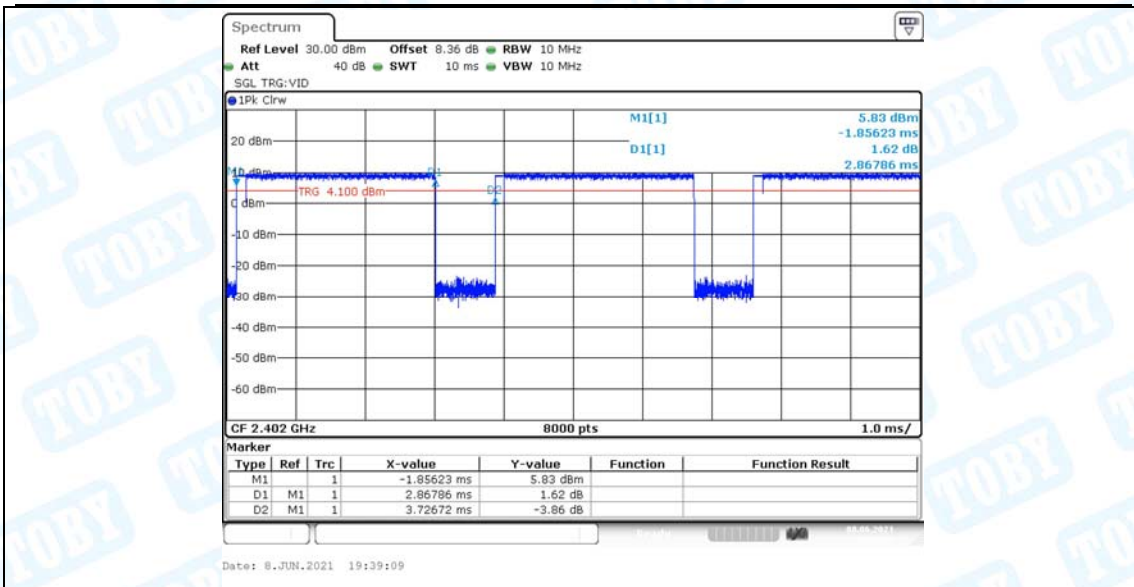
9.2.Test Graphs



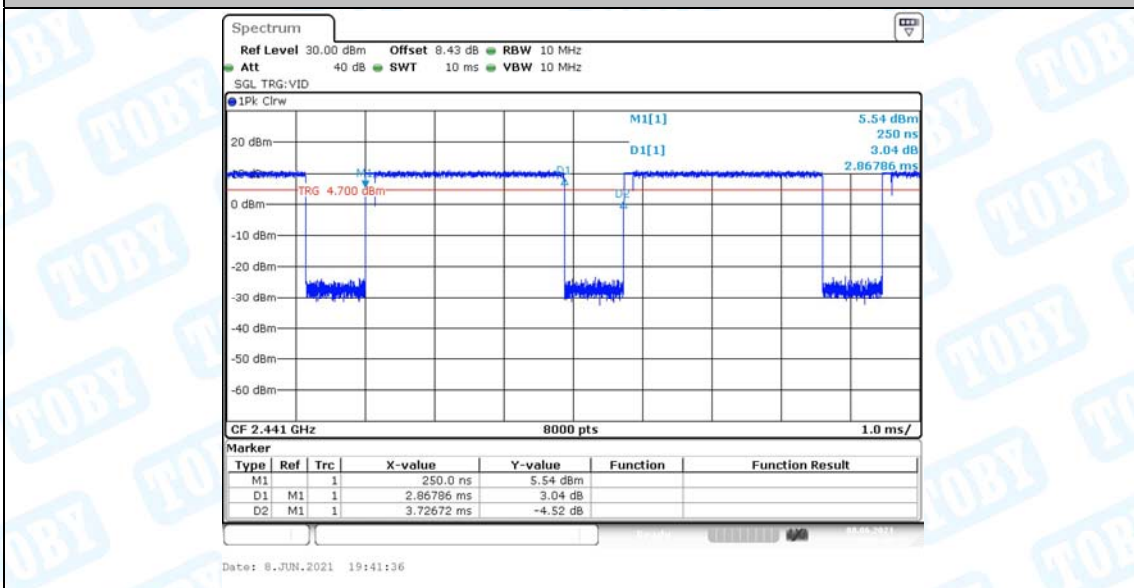
2DH5_Ant1_2402



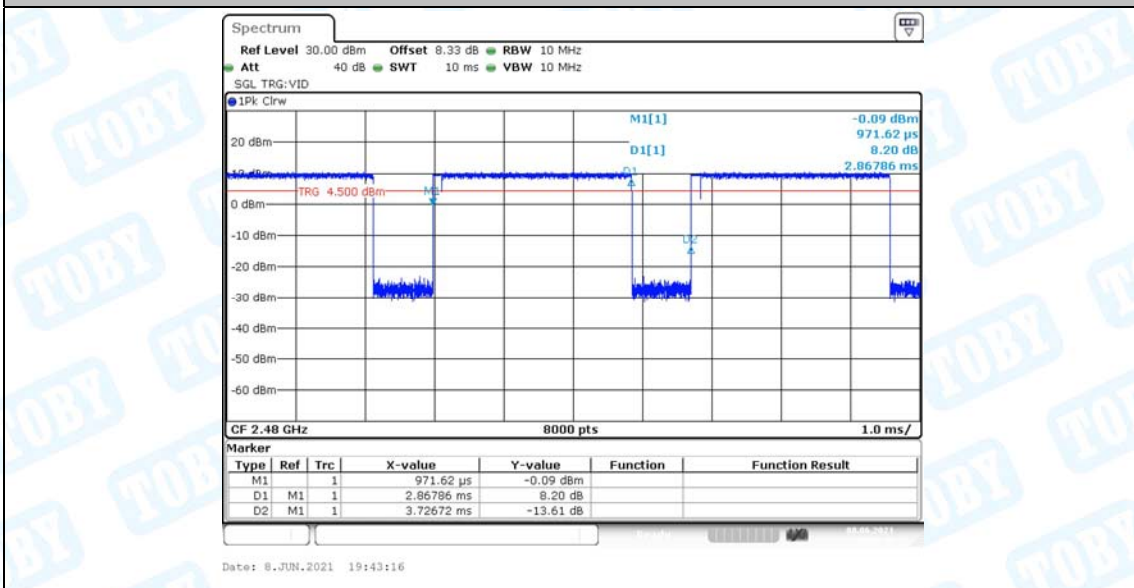
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



10. Emissions in Restricted Bands

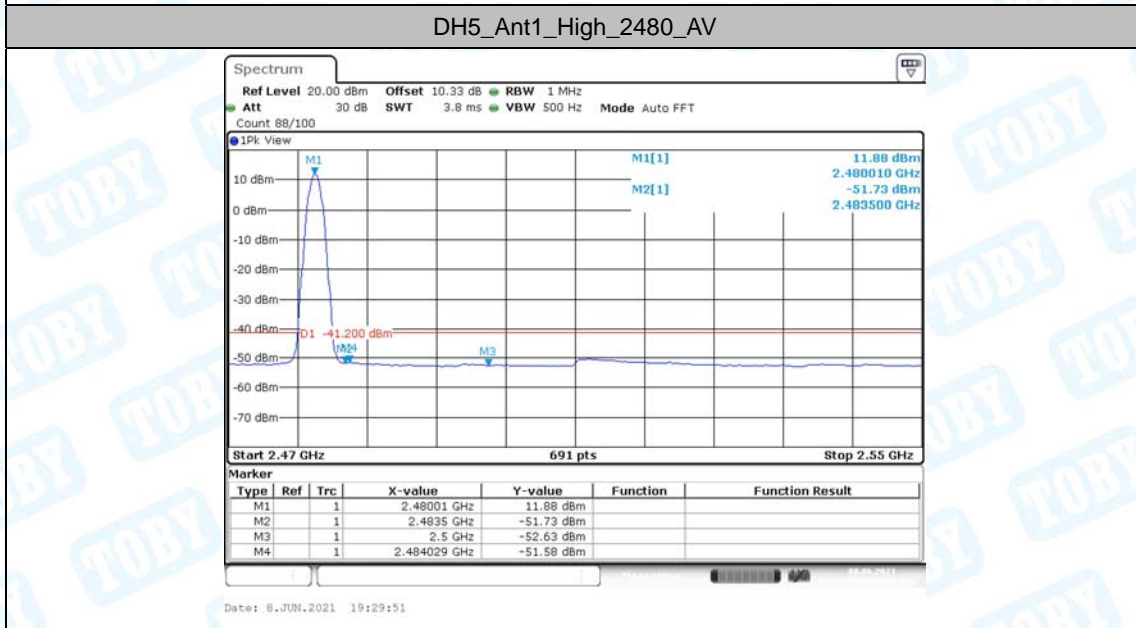
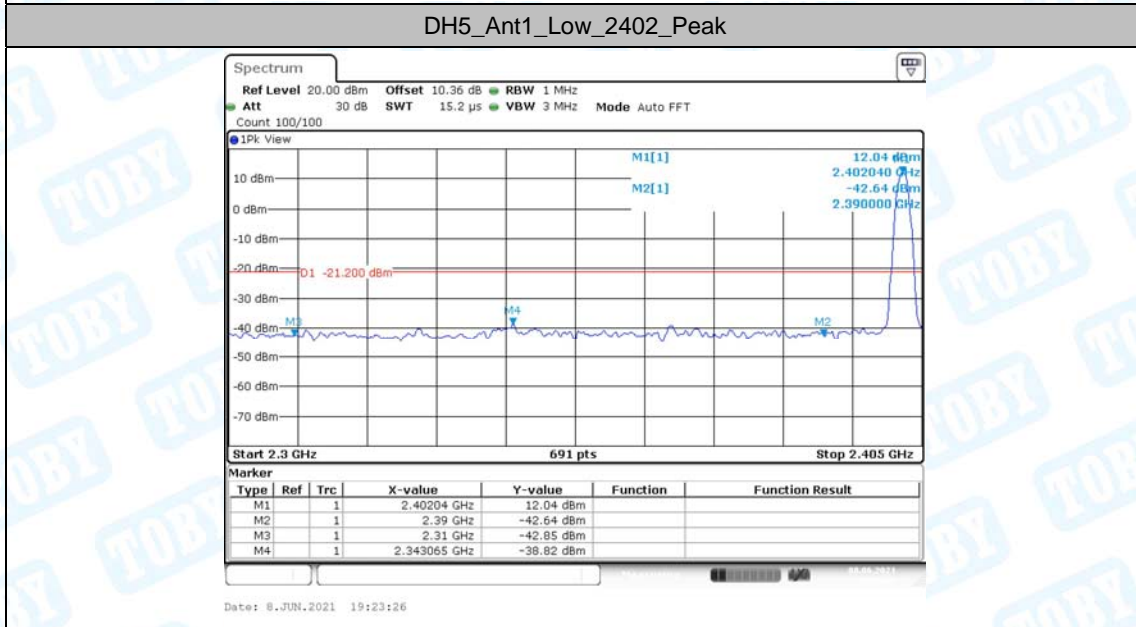
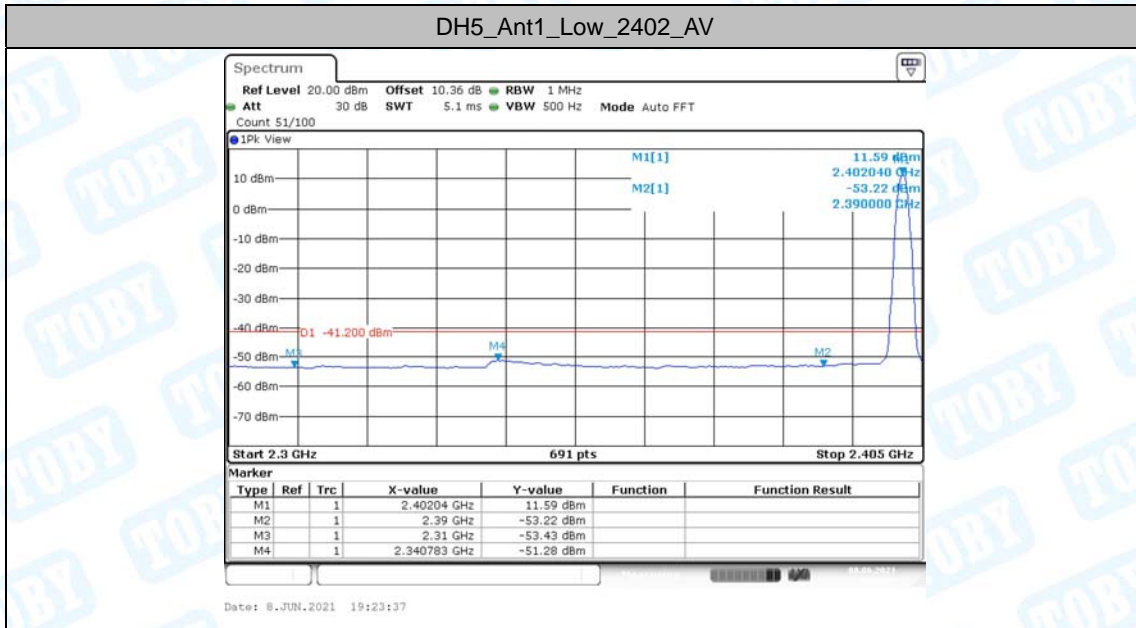
10.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-53.43	<=-41.20	PASS
				AV	2340.783	-51.28	<=-41.20	PASS
				AV	2390.000	-53.22	<=-41.20	PASS
				Peak	2310.000	-42.85	<=-21.20	PASS
				Peak	2343.065	-38.82	<=-21.20	PASS
				Peak	2390.000	-42.64	<=-21.20	PASS
		High	2480	AV	2483.500	-51.73	<=-41.20	PASS
				AV	2484.029	-51.58	<=-41.20	PASS
				AV	2500.000	-52.63	<=-41.20	PASS
				Peak	2483.500	-42.52	<=-21.20	PASS
				Peak	2484.377	-39.86	<=-21.20	PASS
				Peak	2500.000	-41.67	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-53.61	<=-41.20	PASS
				AV	2340.935	-51.17	<=-41.20	PASS
				AV	2390.000	-53.38	<=-41.20	PASS
				Peak	2310.000	-42.49	<=-21.20	PASS
				Peak	2343.674	-39.26	<=-21.20	PASS
				Peak	2390.000	-42.2	<=-21.20	PASS
		High	2480	AV	2483.500	-51.68	<=-41.20	PASS
				AV	2484.493	-51.54	<=-41.20	PASS
				AV	2500.000	-52.47	<=-41.20	PASS
				Peak	2483.500	-42.64	<=-21.20	PASS
				Peak	2484.609	-34.3	<=-21.20	PASS
				Peak	2500.000	-42.02	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-53.61	<=-41.20	PASS
				AV	2340.783	-51.28	<=-41.20	PASS
				AV	2390.000	-53.23	<=-41.20	PASS
				Peak	2310.000	-43.08	<=-21.20	PASS
				Peak	2344.435	-39.29	<=-21.20	PASS
				Peak	2390.000	-42.43	<=-21.20	PASS
		High	2480	AV	2483.500	-51.63	<=-41.20	PASS
				AV	2483.913	-51.47	<=-41.20	PASS
				AV	2500.000	-52.25	<=-41.20	PASS
				Peak	2483.500	-42.78	<=-21.20	PASS
				Peak	2484.493	-39.09	<=-21.20	PASS
				Peak	2500.000	-40.45	<=-21.20	PASS

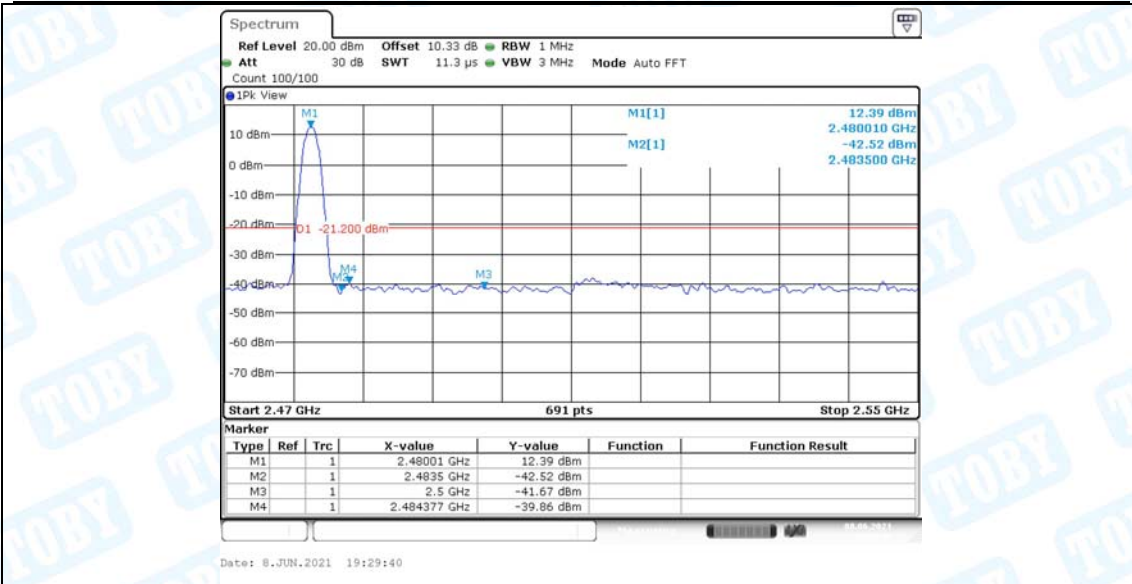
Note:

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) or RSS-Gen 8.10. The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

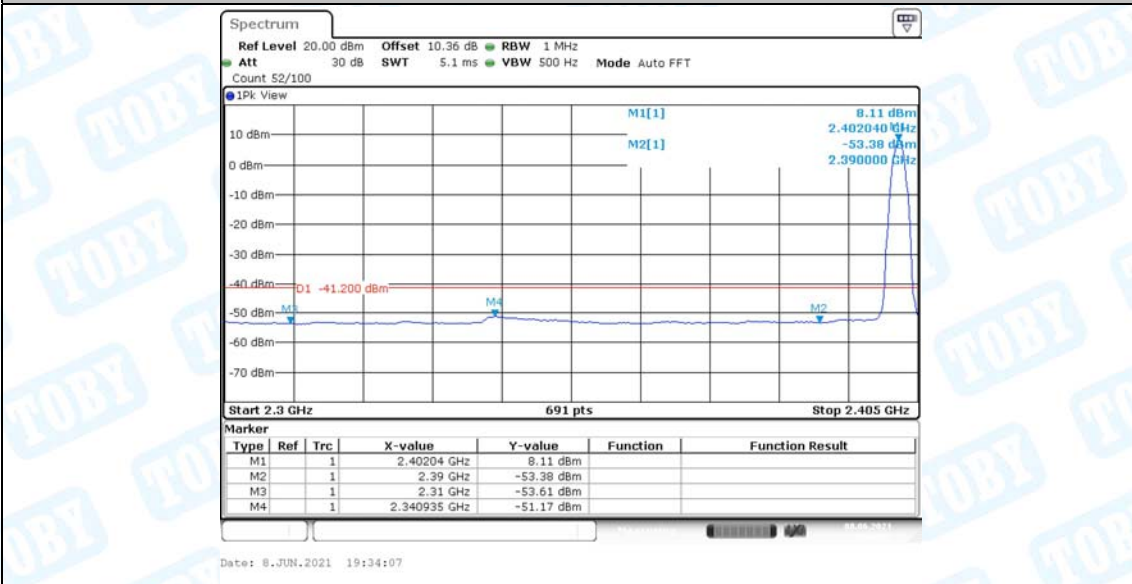
10.2. Test Graphs



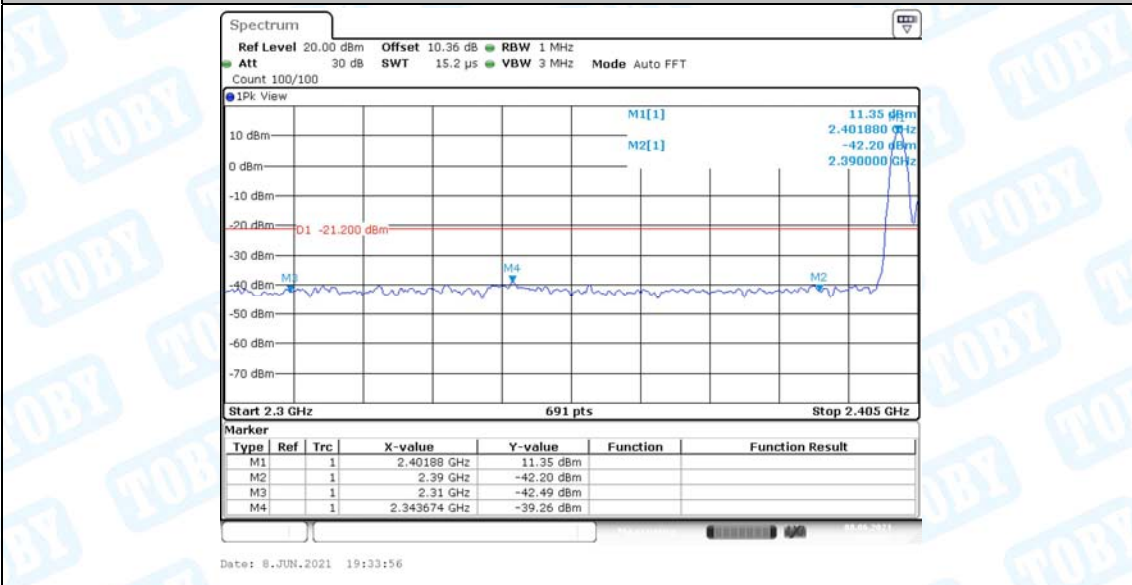
DH5_Ant1_High_2480_Peak



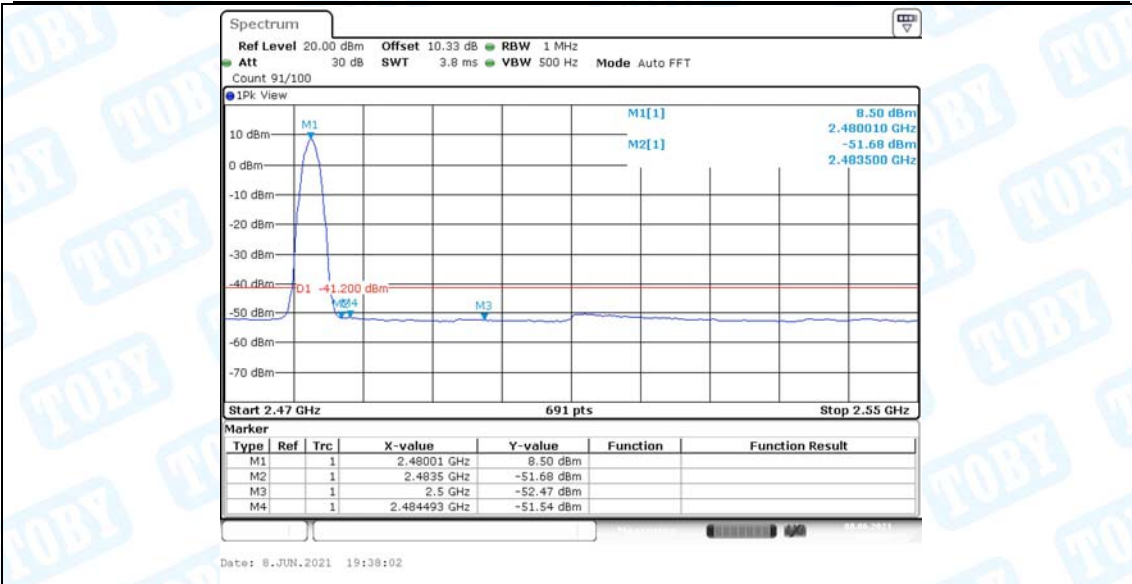
2DH5_Ant1_Low_2402_AV



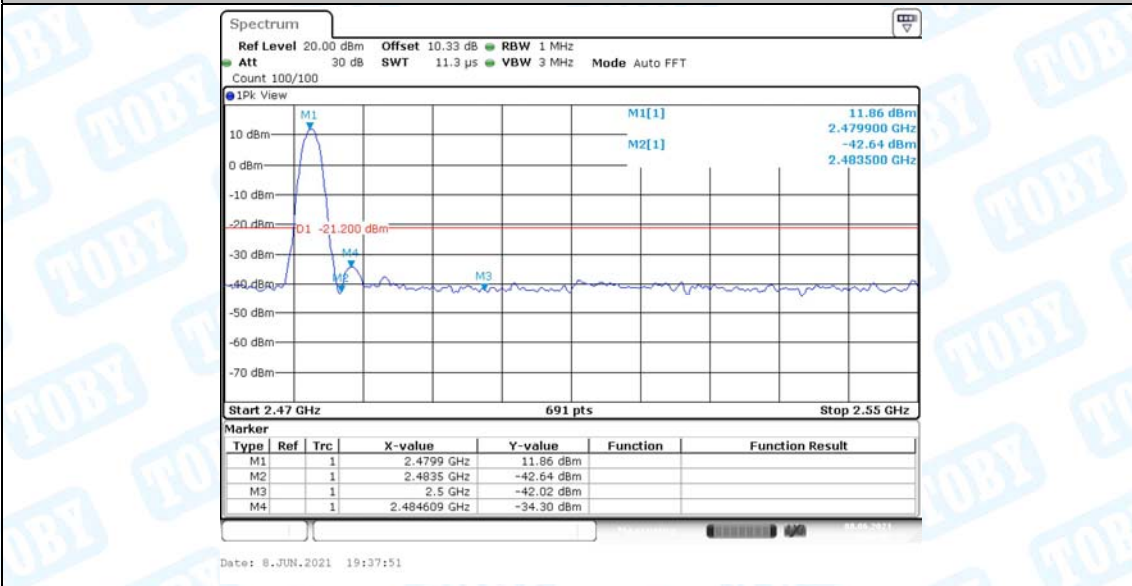
2DH5_Ant1_Low_2402_Peak



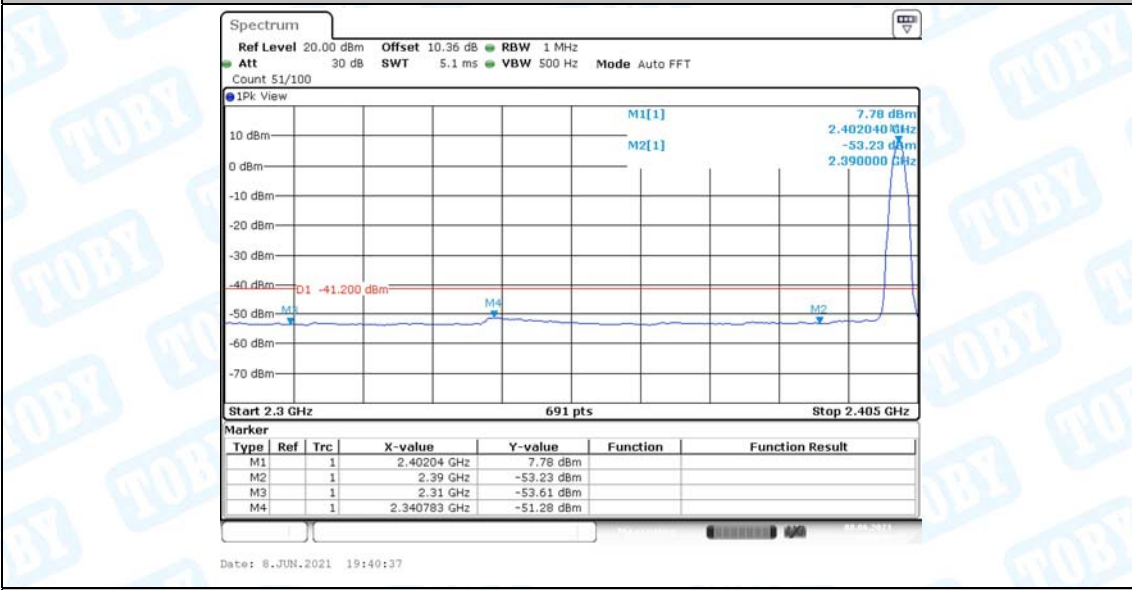
2DH5_Ant1_High_2480_AV



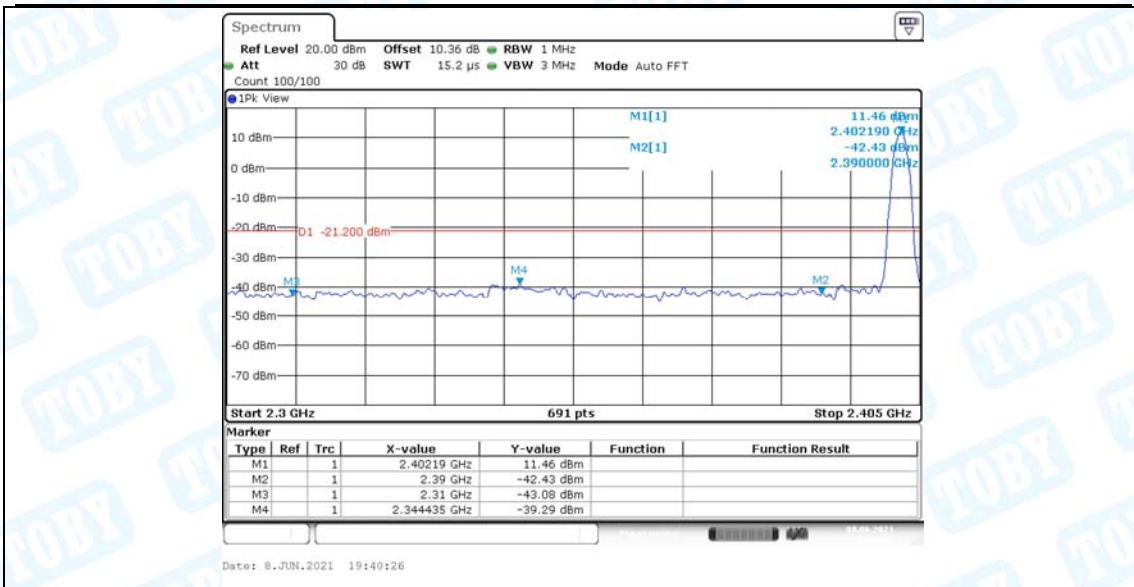
2DH5_Ant1_High_2480_Peak



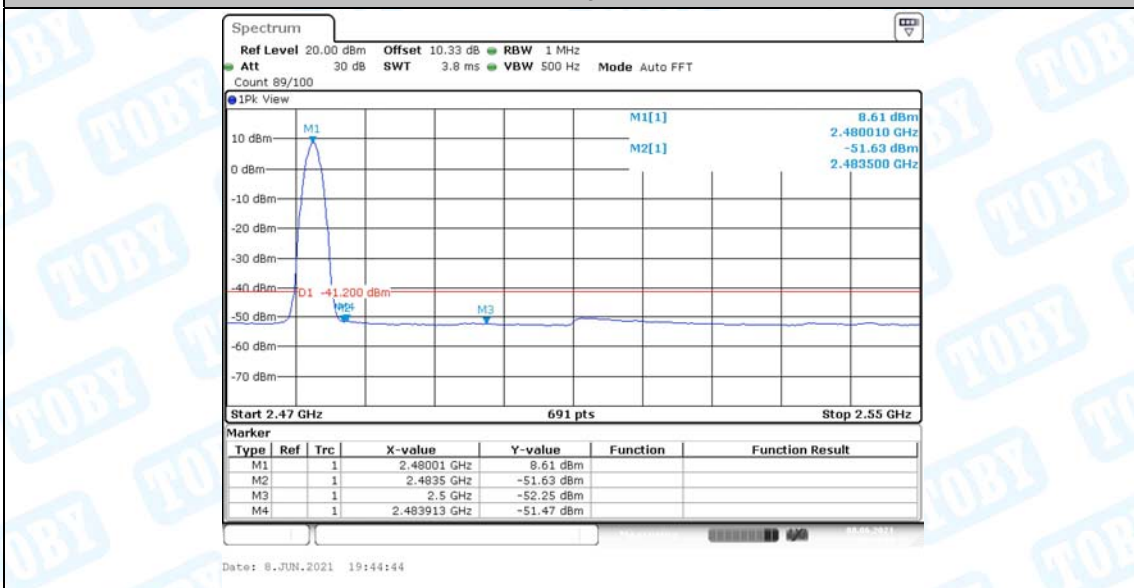
3DH5_Ant1_Low_2402_AV



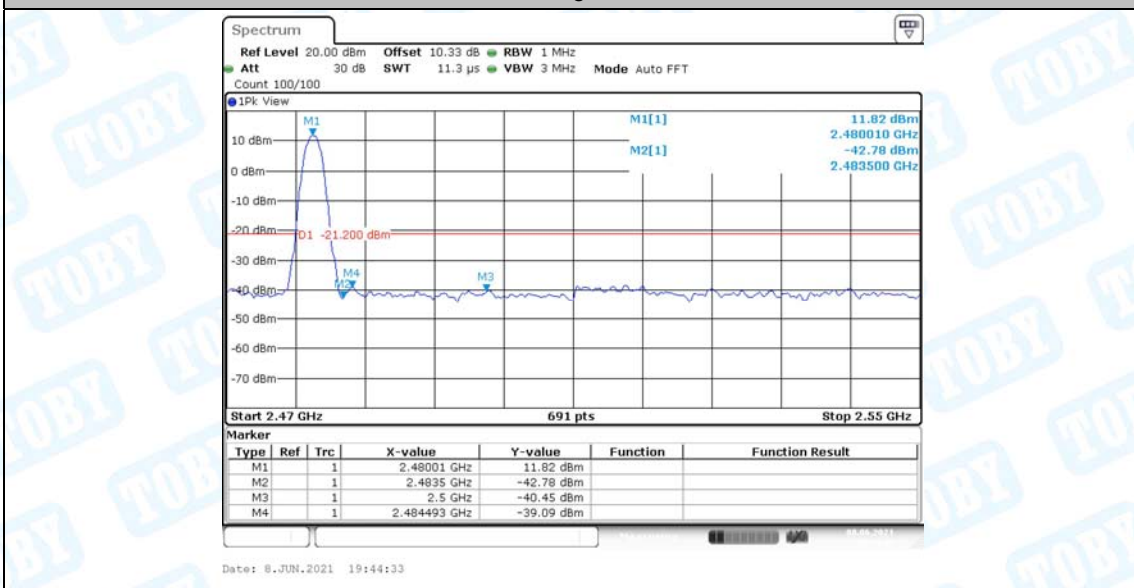
3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



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