

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

General Description of EUT	
Product Name:	D26
Test Model:	D26
Sample ID:	20210721-06_01-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 3.8V
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TB-FCC182991	



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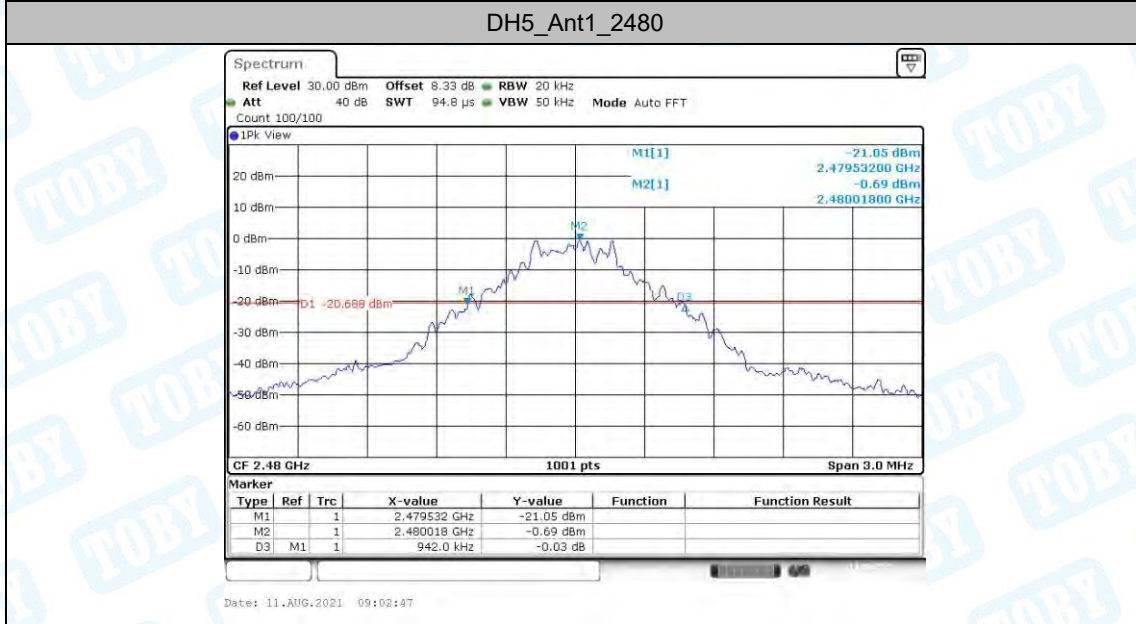
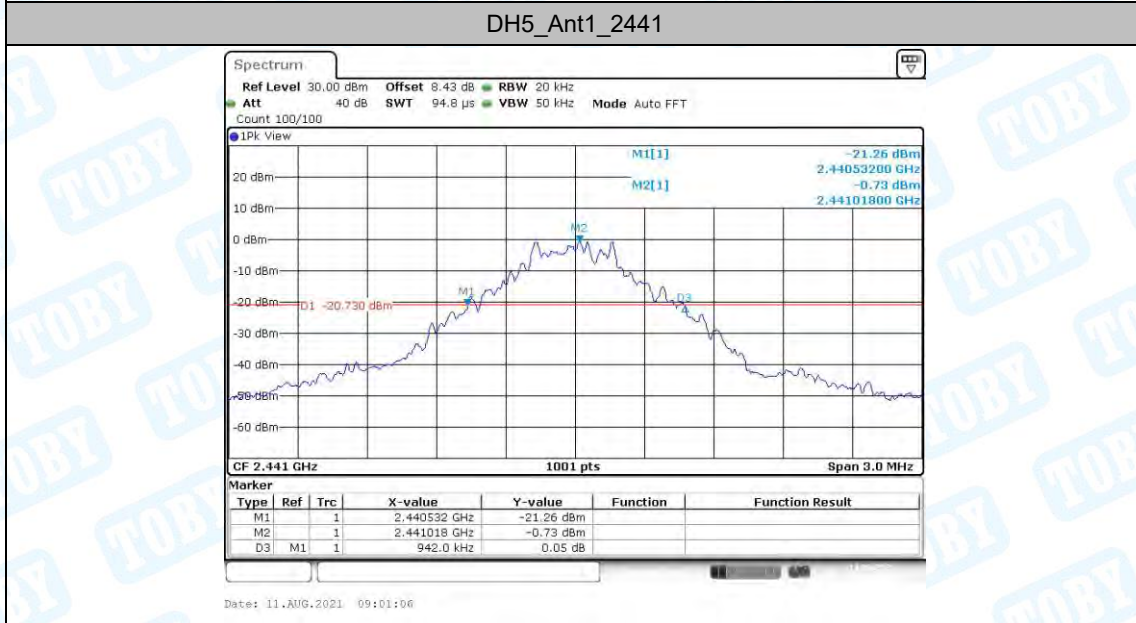
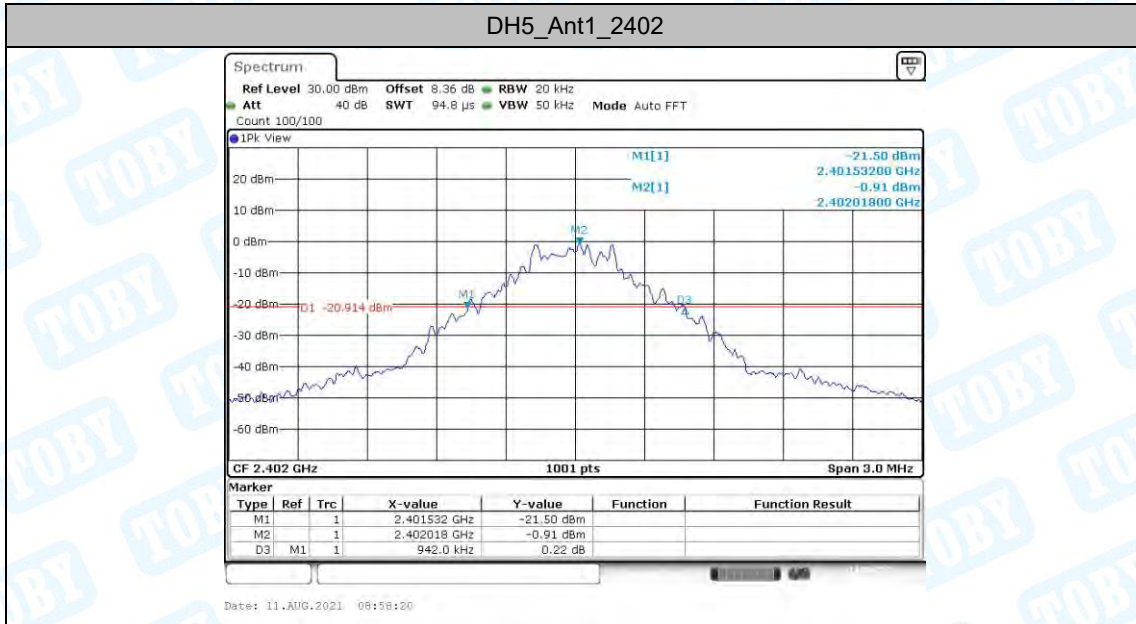
## 1. 20dB Emission Bandwidth

### 1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.532	2402.474	---	PASS
		2441	0.942	2440.532	2441.474	---	PASS
		2480	0.942	2479.532	2480.474	---	PASS
2DH5	Ant1	2402	1.293	2401.358	2402.651	---	PASS
		2441	1.287	2440.358	2441.645	---	PASS
		2480	1.287	2479.358	2480.645	---	PASS
3DH5	Ant1	2402	1.272	2401.349	2402.621	---	PASS
		2441	1.272	2440.349	2441.621	---	PASS
		2480	1.272	2479.346	2480.618	---	PASS

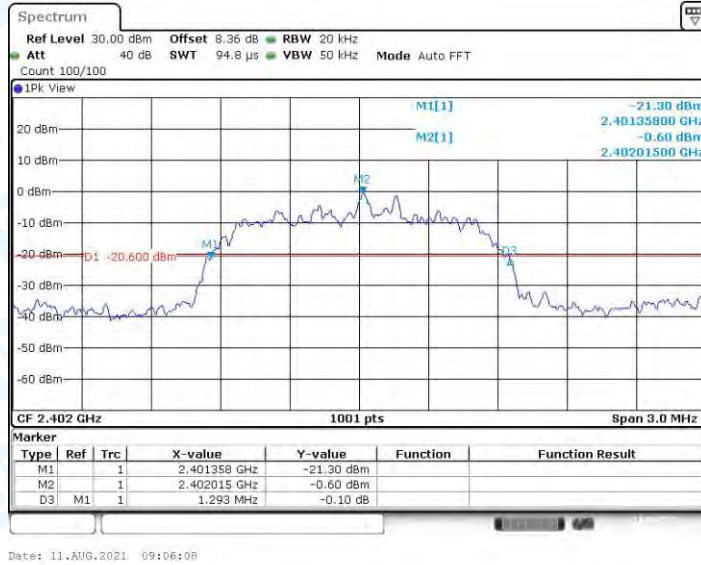


**1.2. Test Graphs**

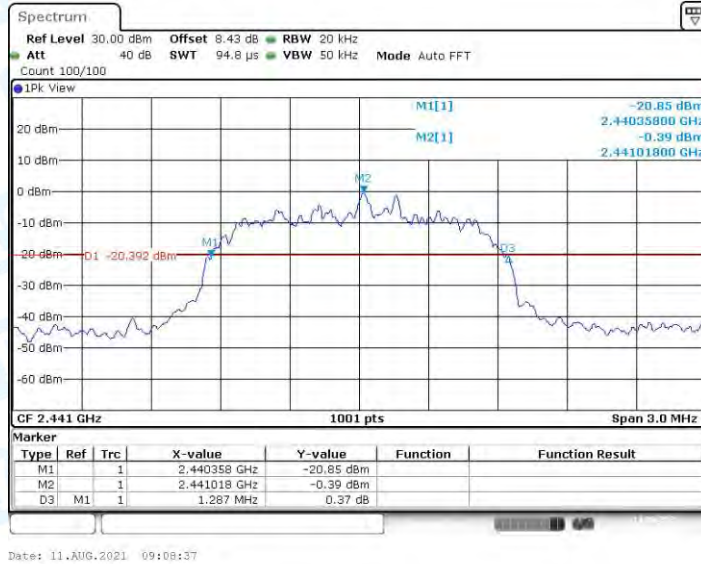




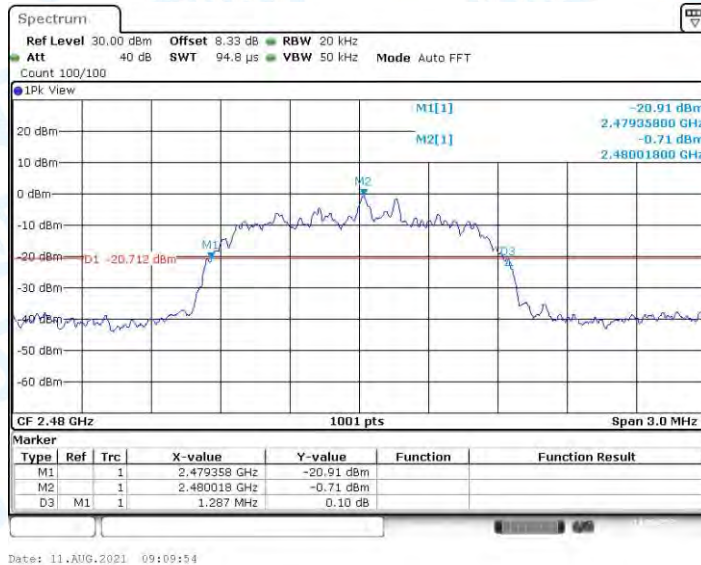
### 2DH5\_Ant1\_2402



### 2DH5\_Ant1\_2441

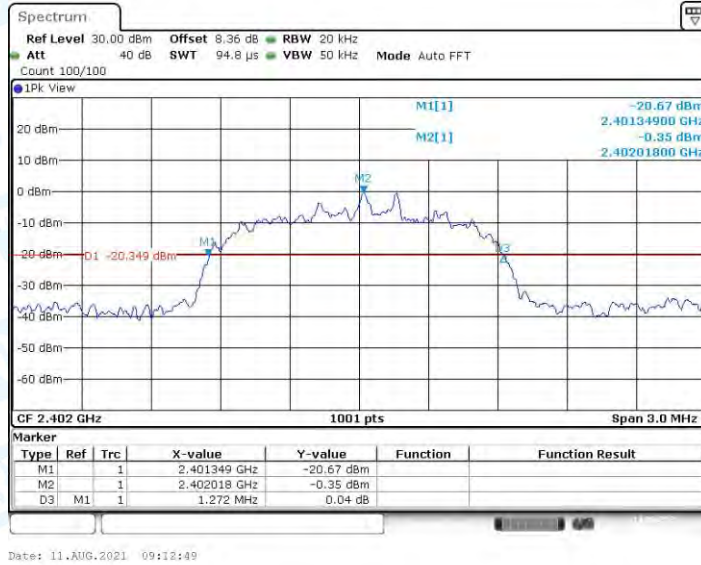


### 2DH5\_Ant1\_2480

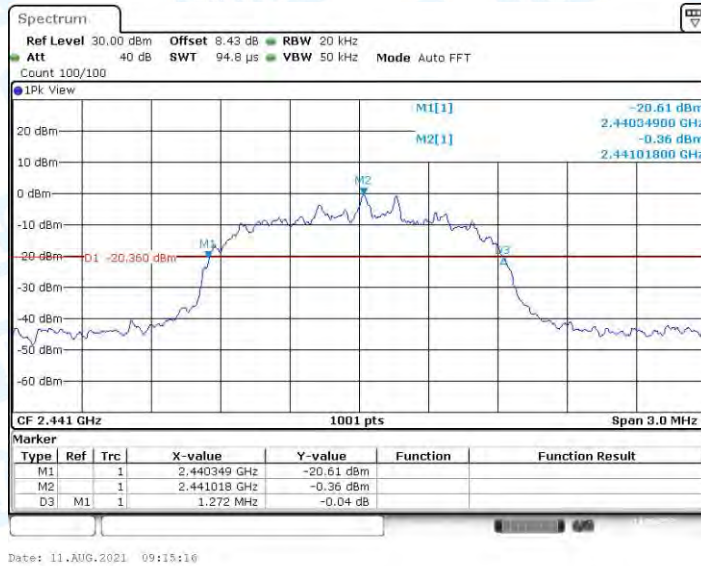




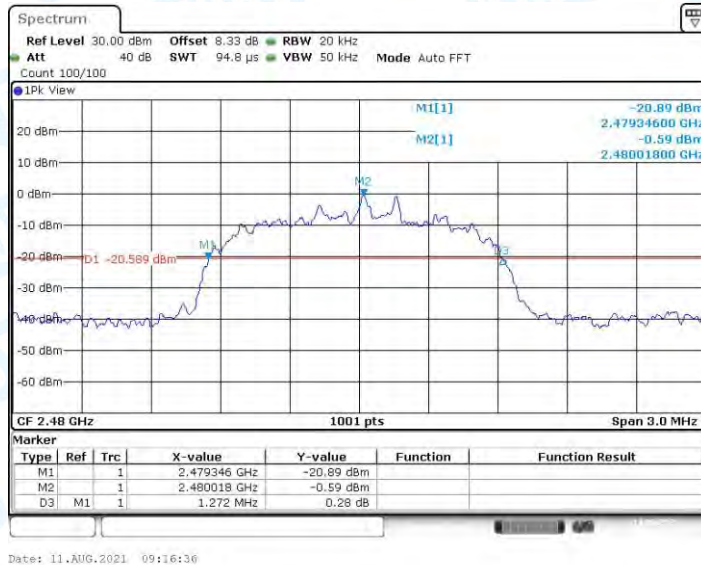
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480





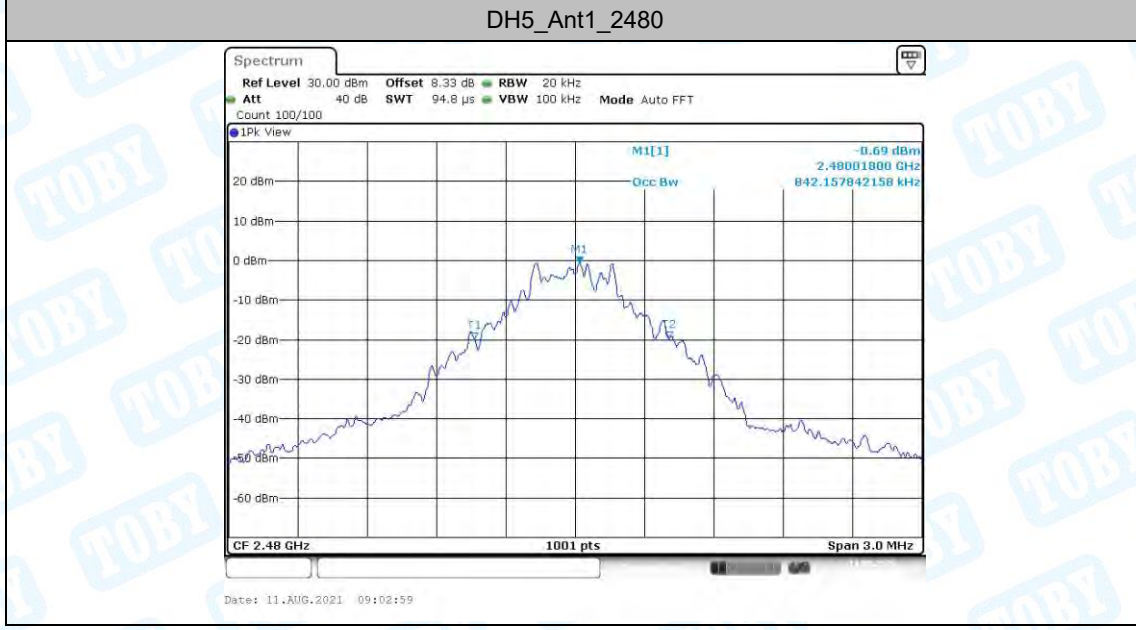
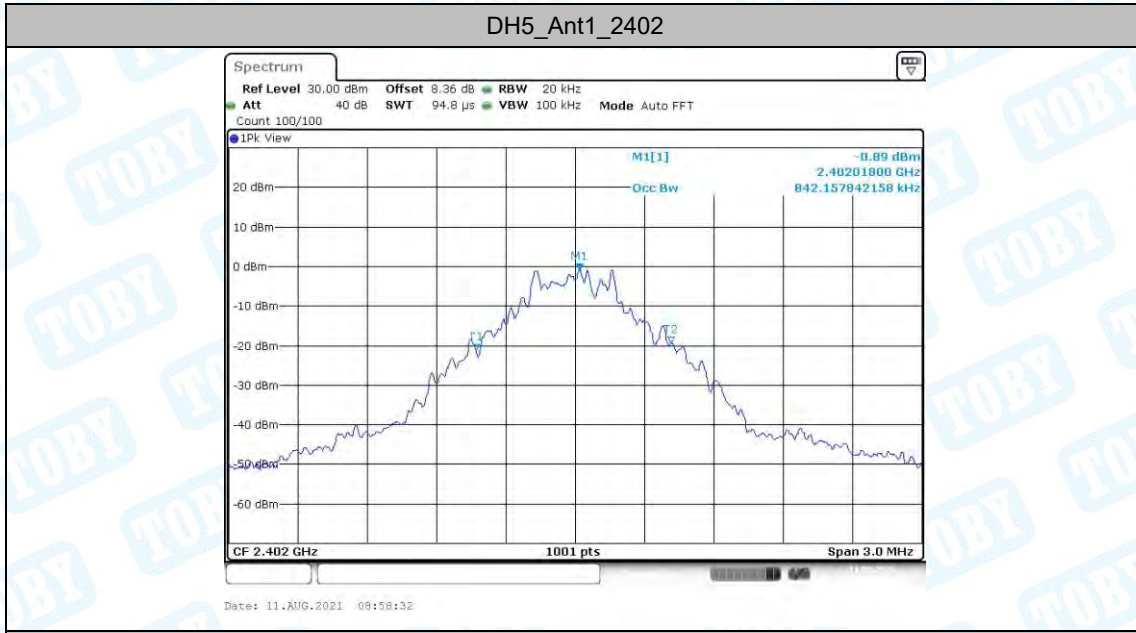
## 2. Occupied Channel Bandwidth

### 2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.842	2401.571	2402.414	---	PASS
		2441	0.842	2440.568	2441.411	---	PASS
		2480	0.842	2479.565	2480.408	---	PASS
2DH5	Ant1	2402	1.19	2401.401	2402.590	---	PASS
		2441	1.178	2440.404	2441.581	---	PASS
		2480	1.184	2479.401	2480.584	---	PASS
3DH5	Ant1	2402	1.196	2401.392	2402.587	---	PASS
		2441	1.181	2440.401	2441.581	---	PASS
		2480	1.19	2479.392	2480.581	---	PASS



### 2.2. Test Graphs

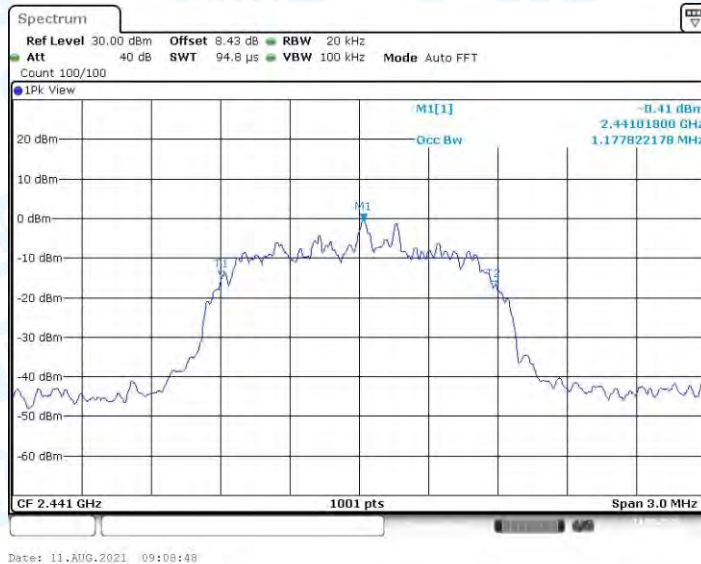




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



2DH5\_Ant1\_2480









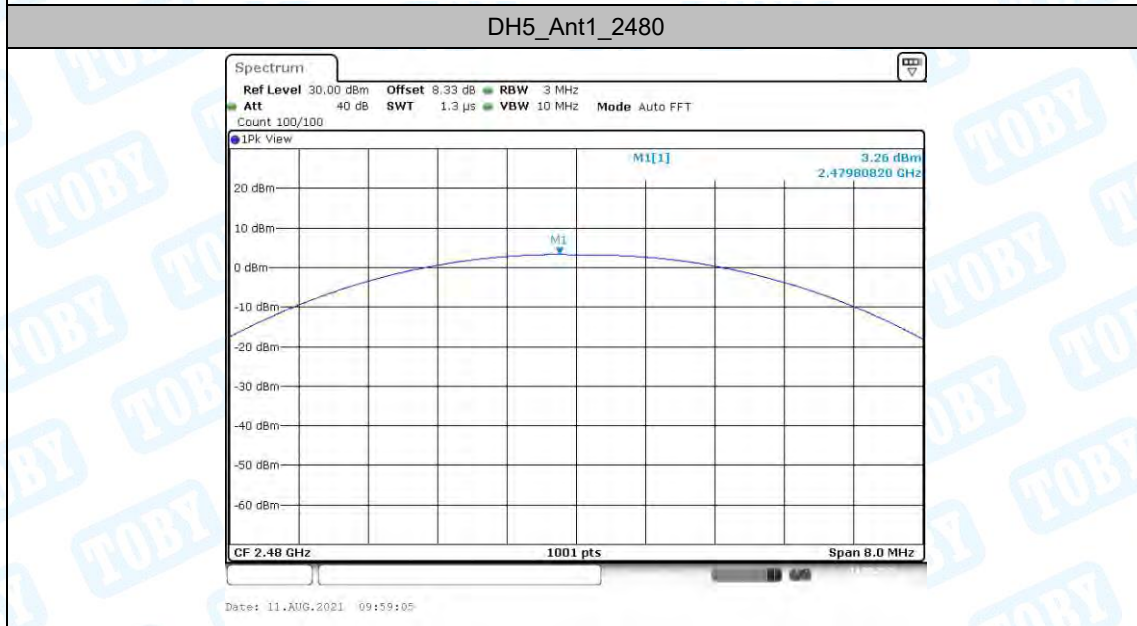
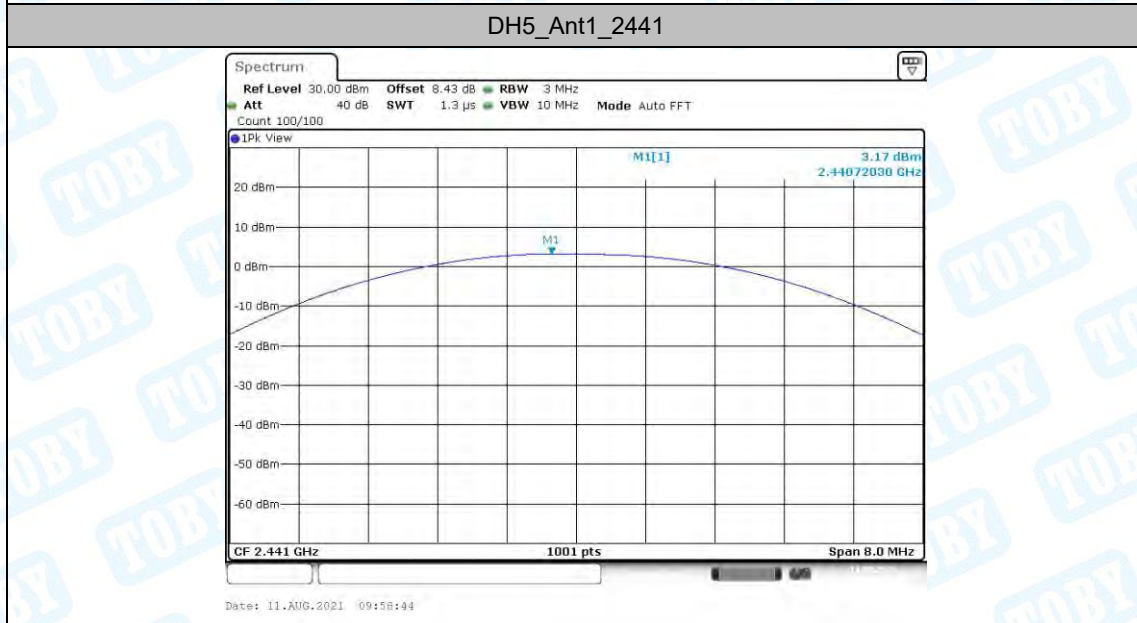
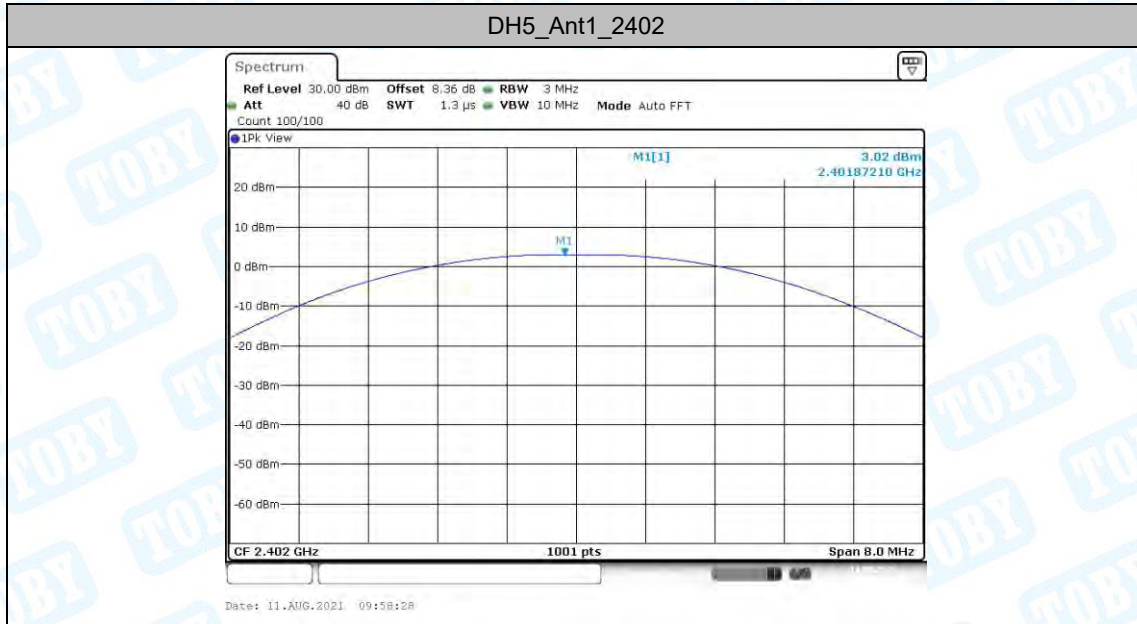
### 3. Maximum conducted output power

#### 3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.02	<=30	PASS
		2441	3.17	<=30	PASS
		2480	3.26	<=30	PASS
2DH5	Ant1	2402	4.71	<=20.97	PASS
		2441	5.09	<=20.97	PASS
		2480	4.63	<=20.97	PASS
3DH5	Ant1	2402	4.9	<=20.97	PASS
		2441	5.15	<=20.97	PASS
		2480	4.88	<=20.97	PASS



### 3.2. Test Graphs

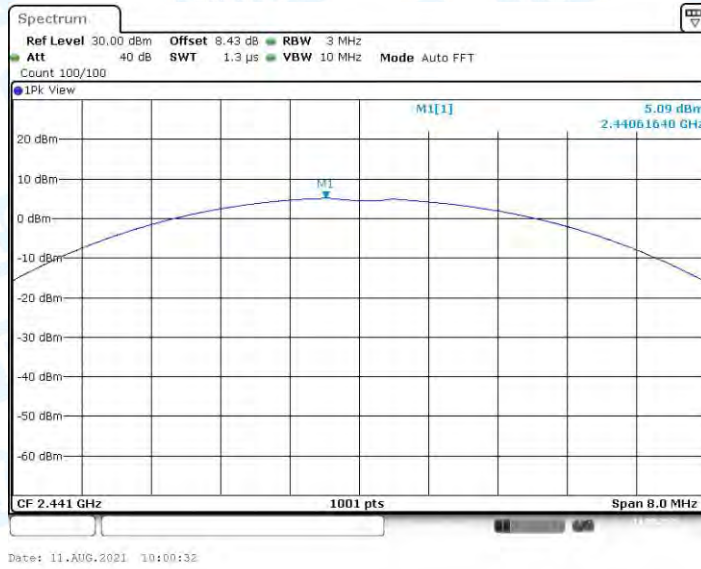




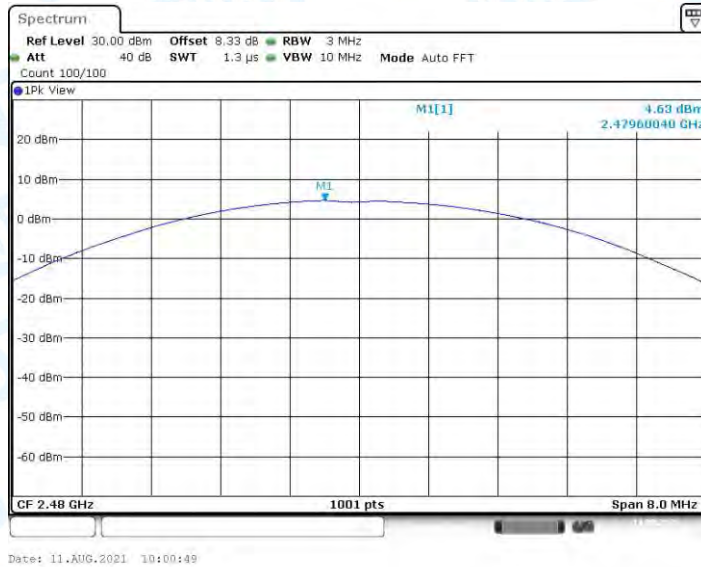
2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



2DH5\_Ant1\_2480





3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480





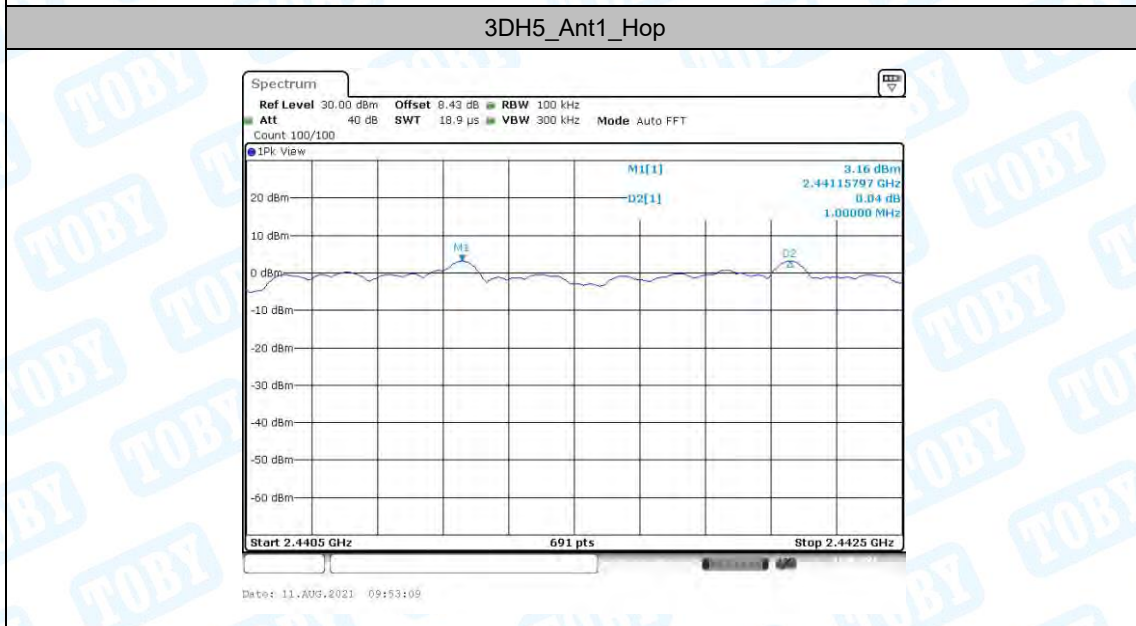
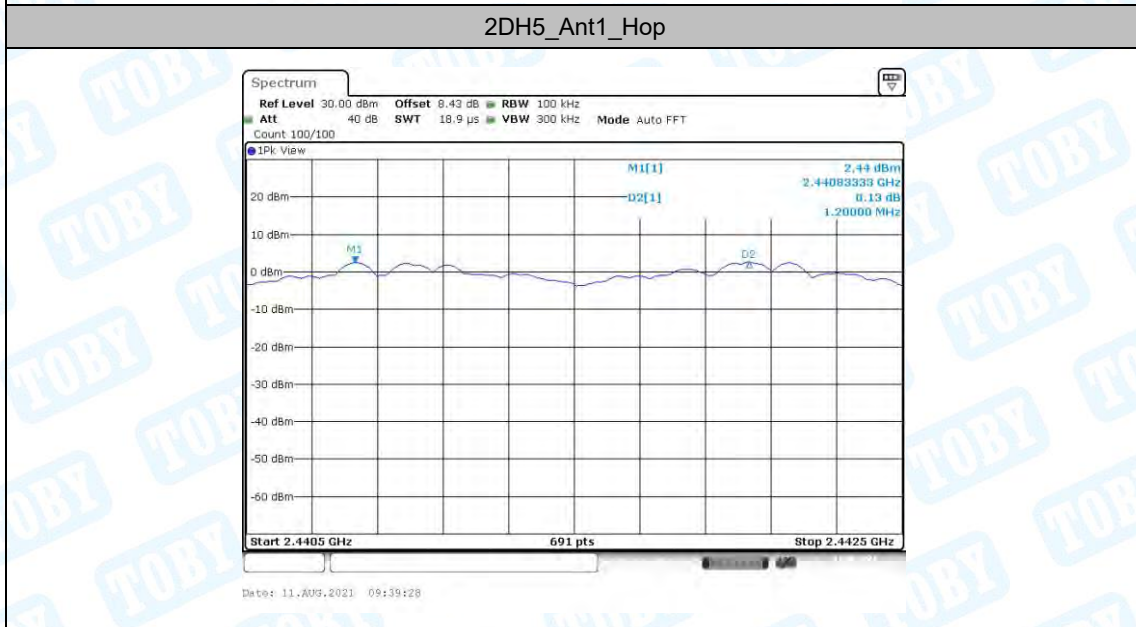
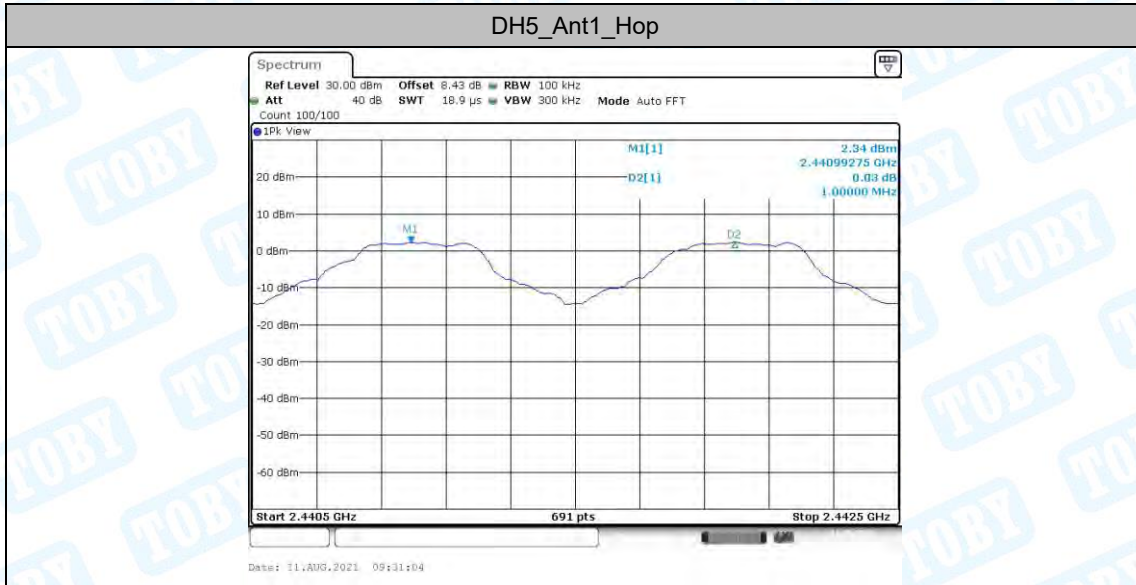
## 4. Carrier frequency separation

### 4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	$\geq 0.942$	PASS
2DH5	Ant1	Hop	1.2	$\geq 0.862$	PASS
3DH5	Ant1	Hop	1	$\geq 0.848$	PASS



### 4.2. Test Graphs





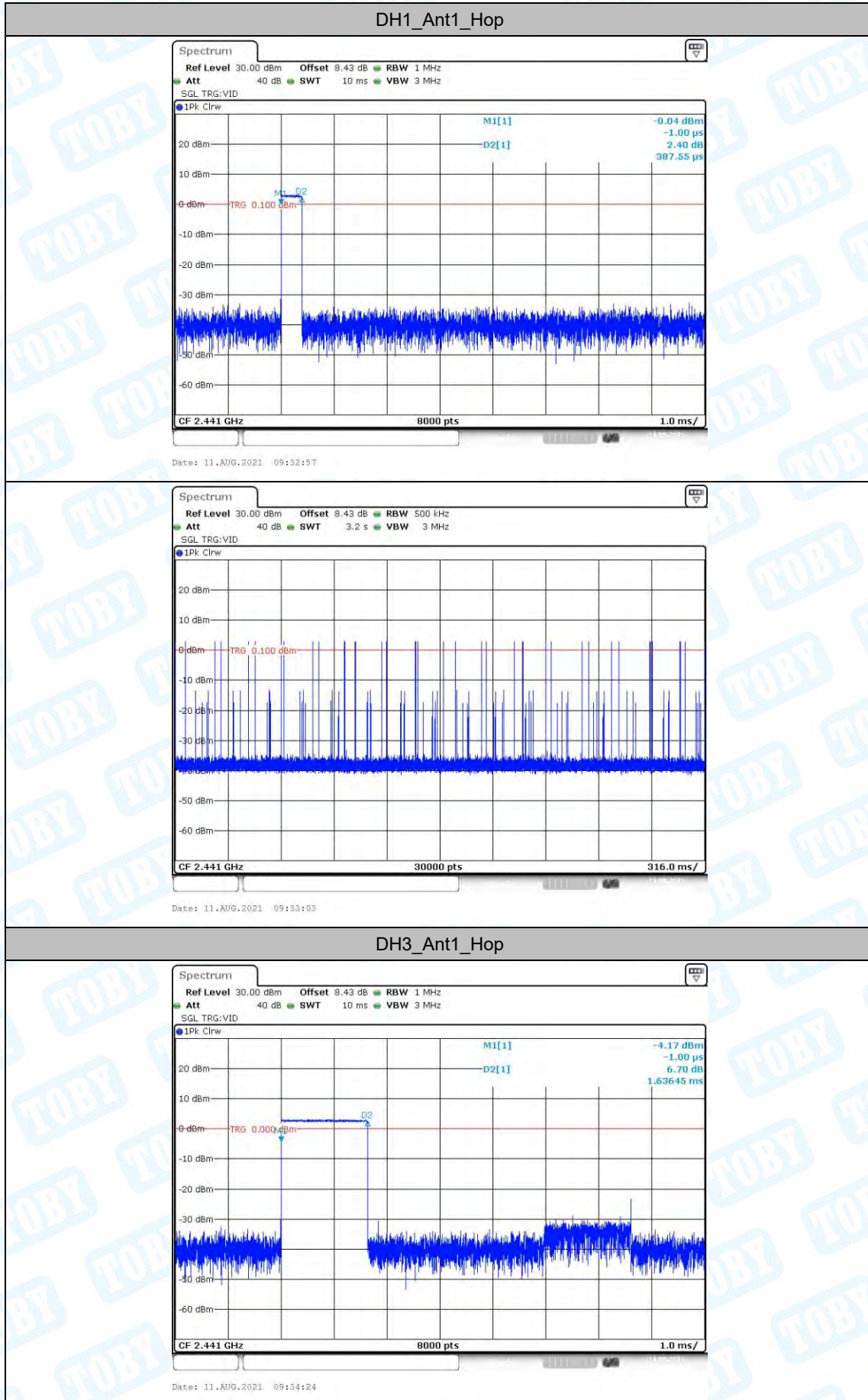
## 5. Time of occupancy

### 5.1. Test Result

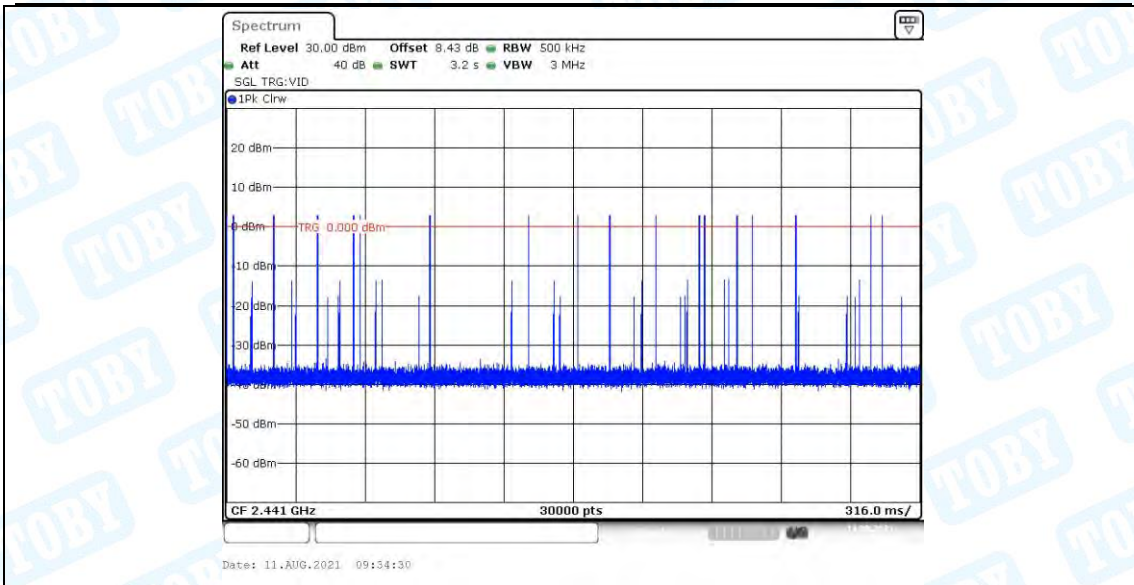
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.39	320	0.124	<=0.4	PASS
DH3	Ant1	Hop	1.64	180	0.295	<=0.4	PASS
DH5	Ant1	Hop	2.88	100	0.288	<=0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.125	<=0.4	PASS
2DH3	Ant1	Hop	1.62	140	0.227	<=0.4	PASS
2DH5	Ant1	Hop	2.87	80	0.229	<=0.4	PASS
3DH1	Ant1	Hop	0.38	320	0.121	<=0.4	PASS
3DH3	Ant1	Hop	1.62	170	0.276	<=0.4	PASS
3DH5	Ant1	Hop	2.86	90	0.258	<=0.4	PASS



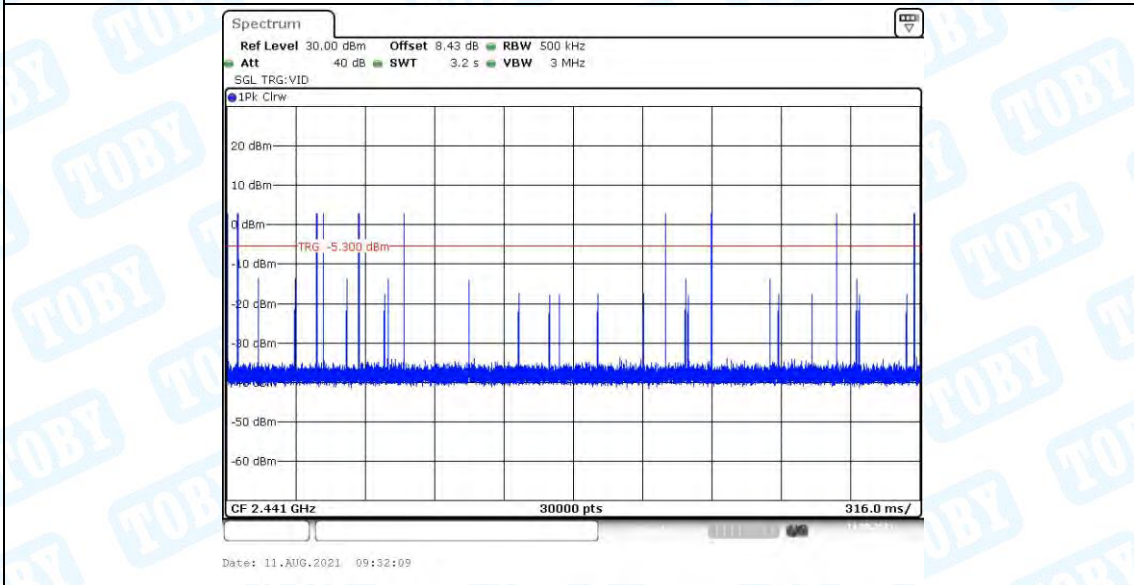
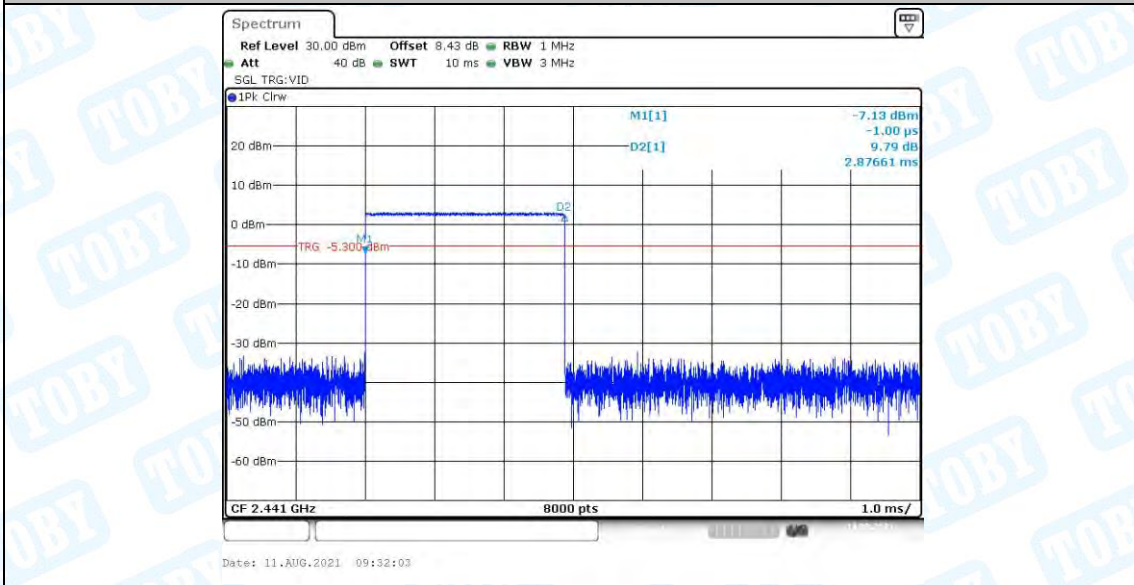
### 5.2. Test Graphs





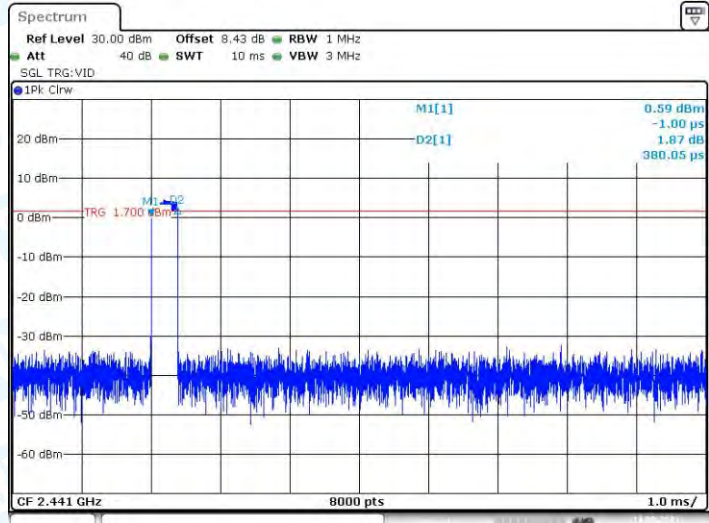


DH5\_Ant1\_Hop



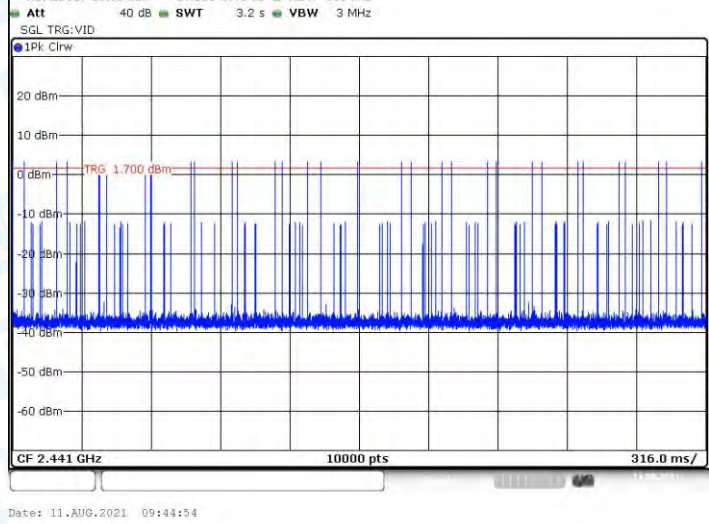


2DH1\_Ant1\_Hop



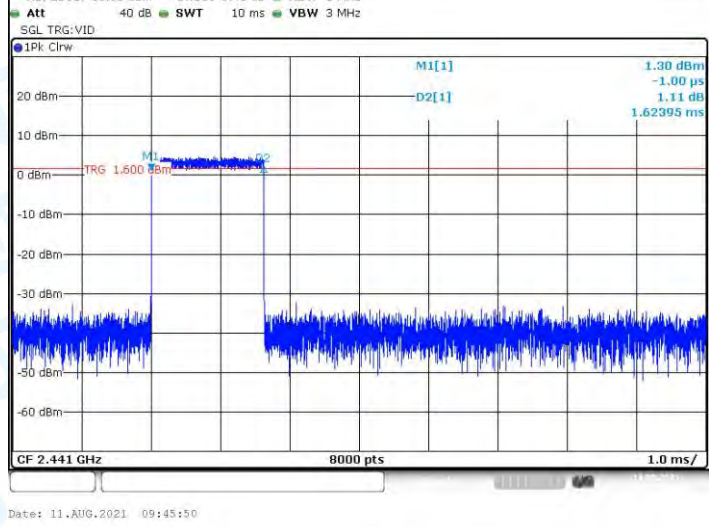
Date: 11.AUG.2021 09:44:48

2DH1\_Ant1\_Hop



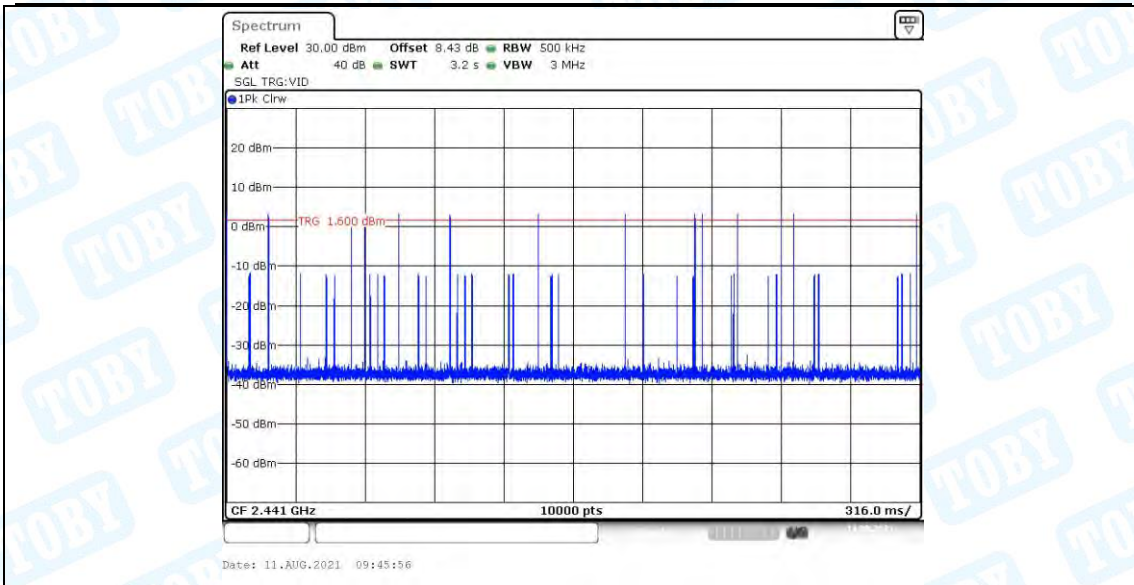
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2DH3\_Ant1\_Hop

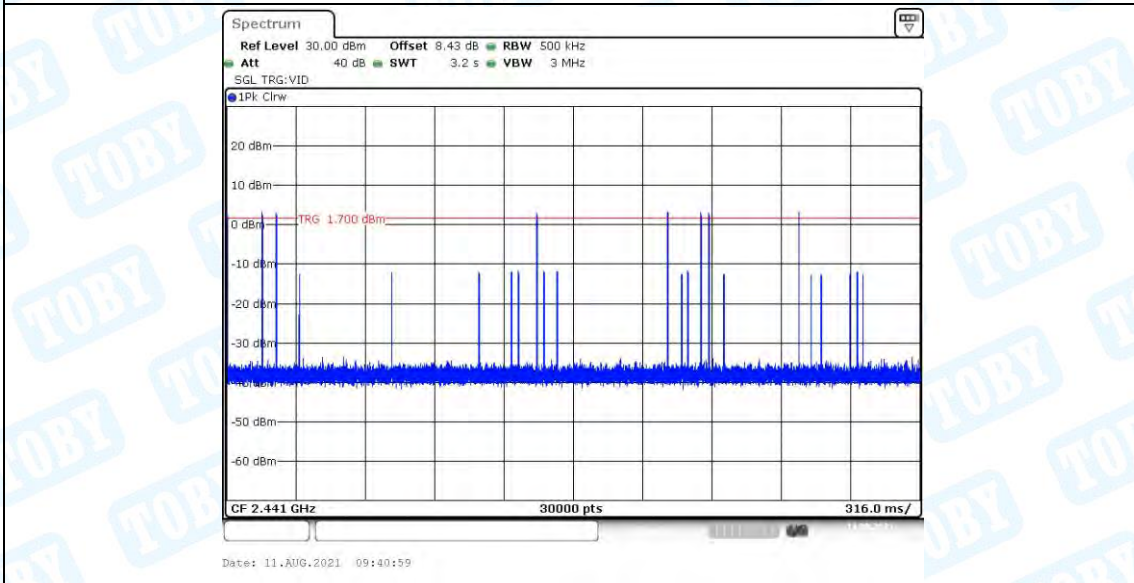
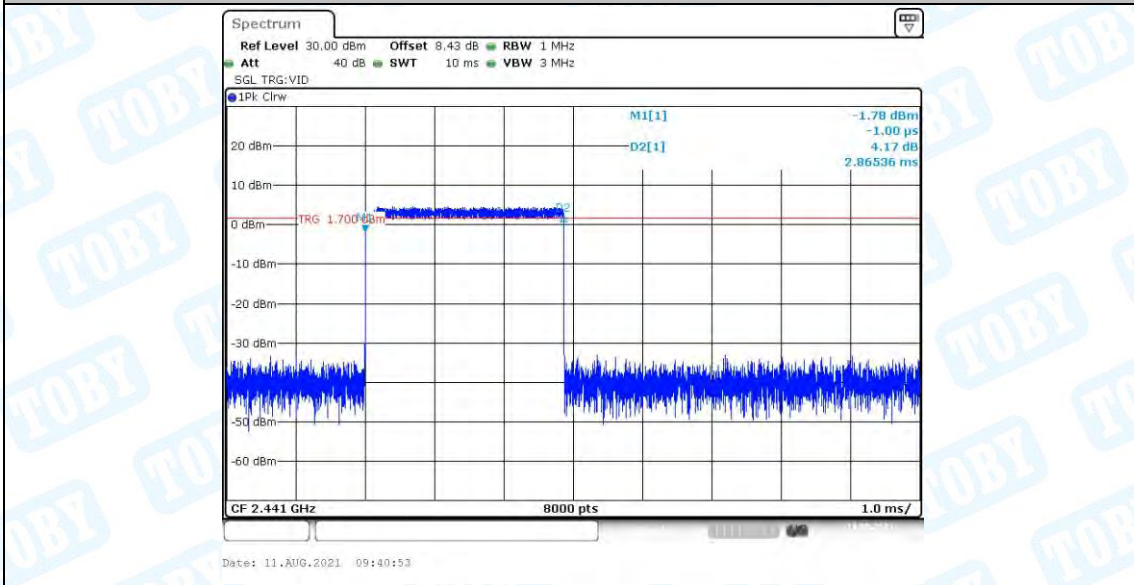


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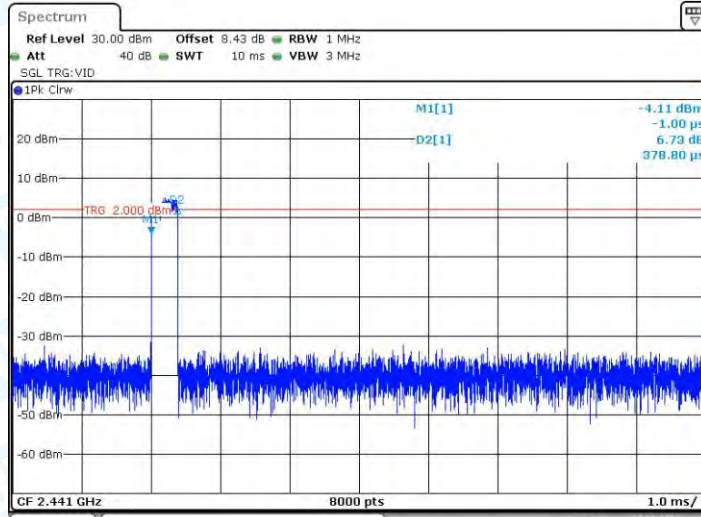


2DH5\_Ant1\_Hop



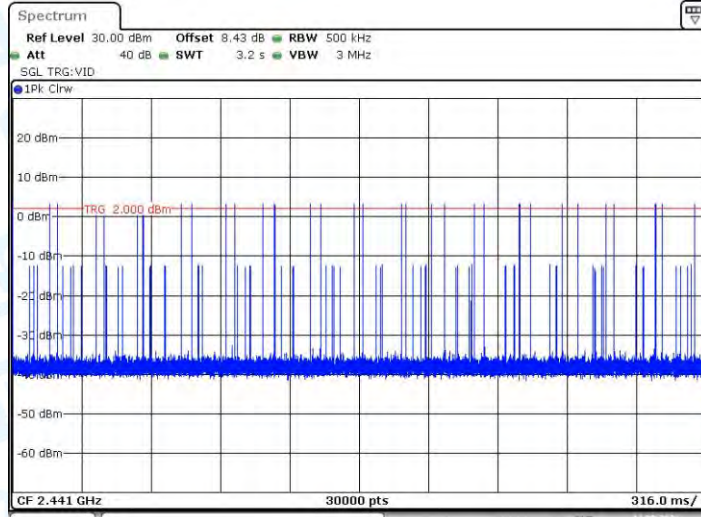


3DH1\_Ant1\_Hop



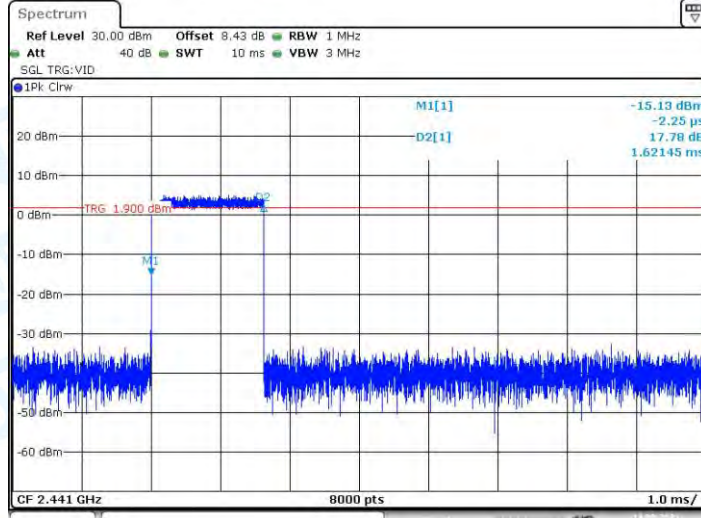
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3DH1\_Ant1\_Hop



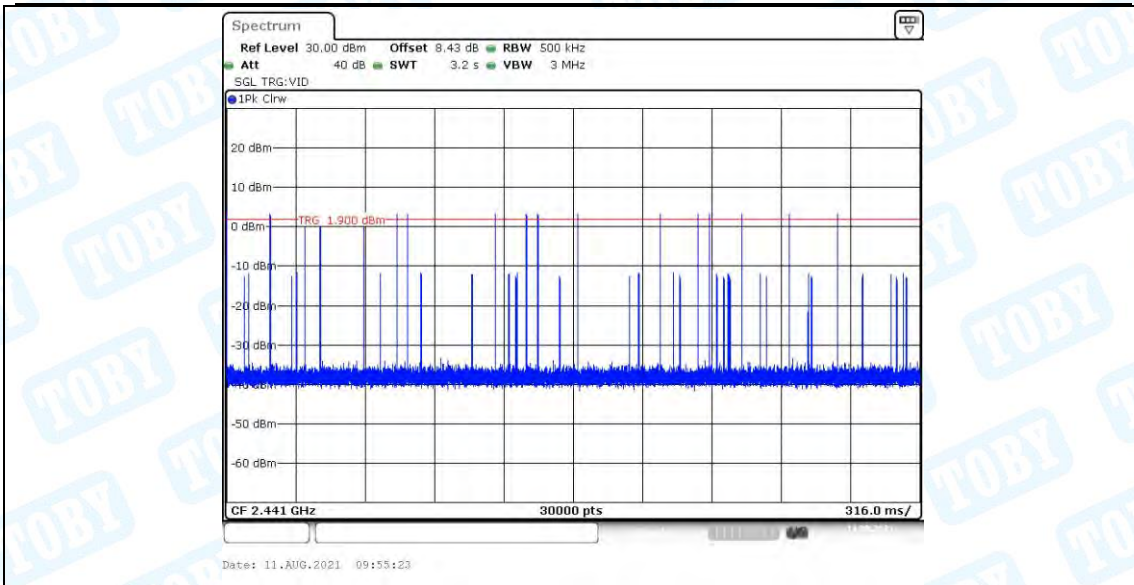
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3DH3\_Ant1\_Hop

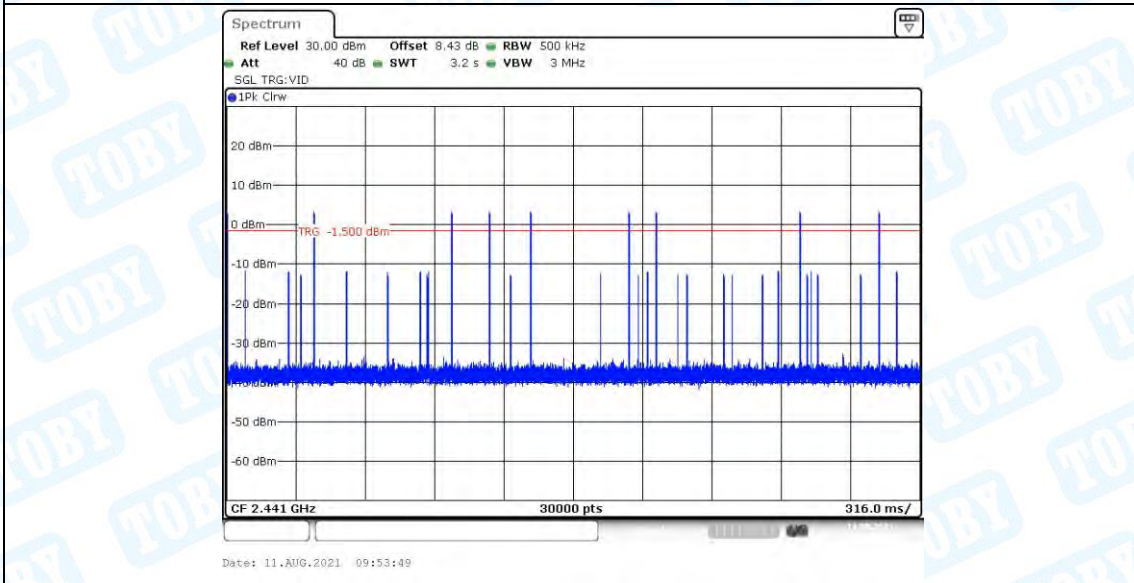
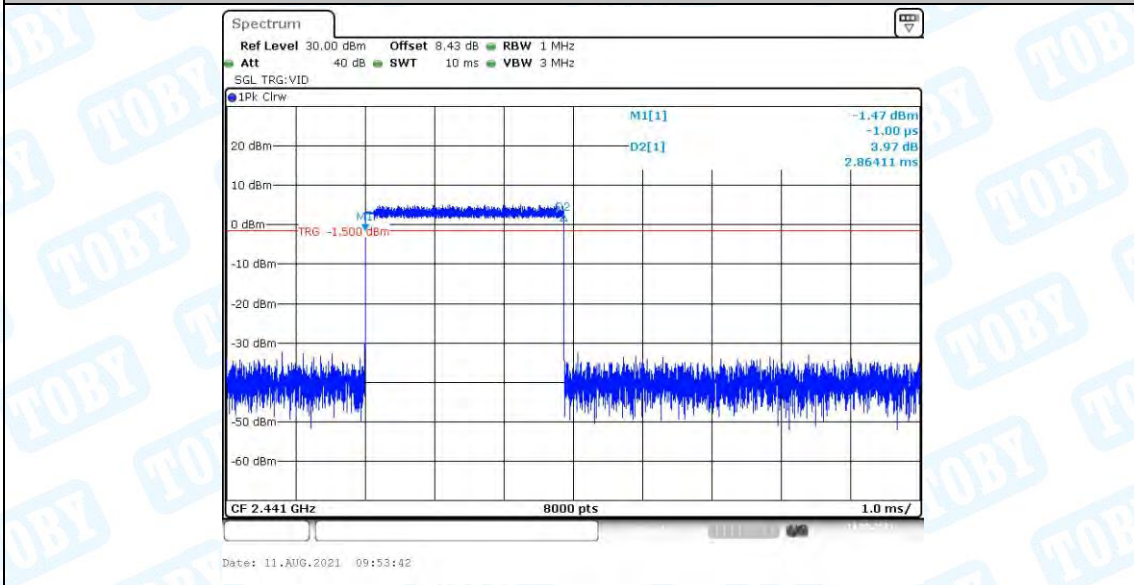


Date: 11.AUG.2021 09:55:16





3DH5\_Ant1\_Hop





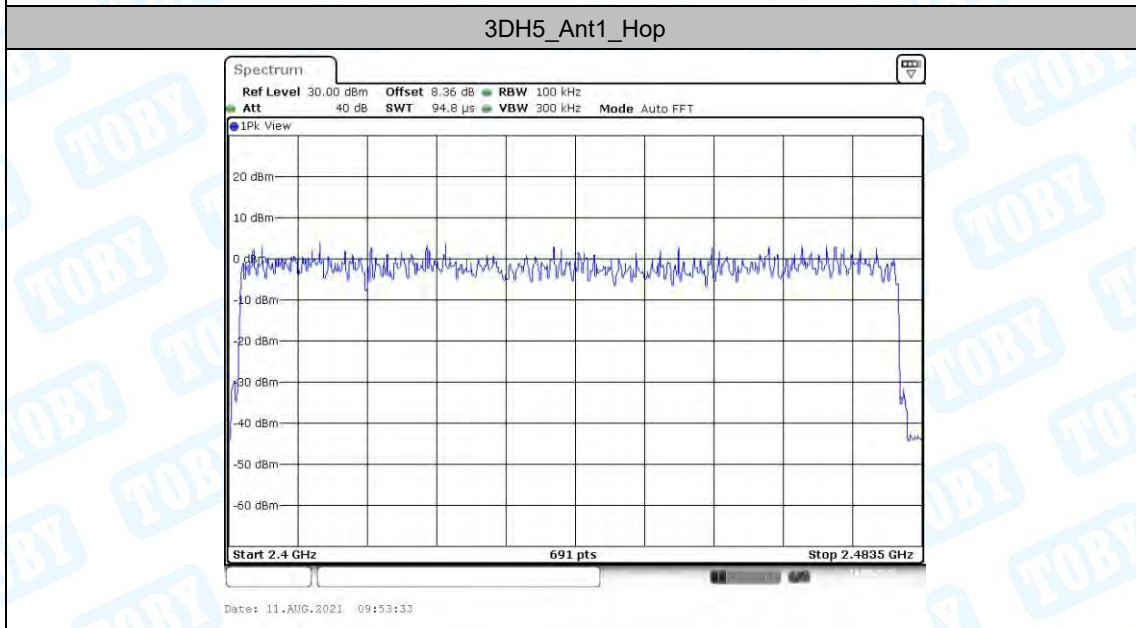
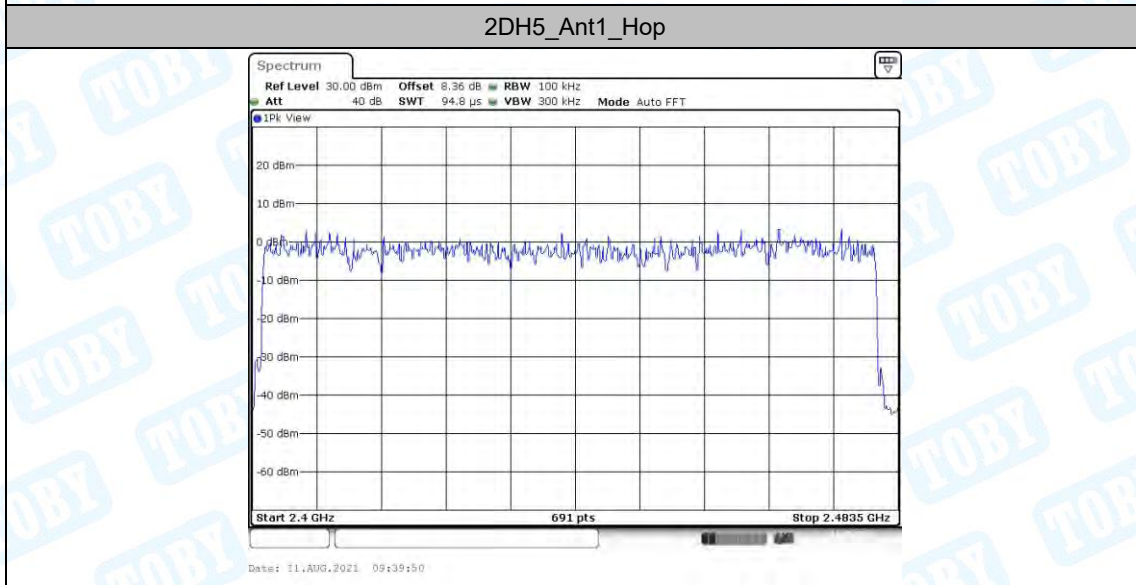
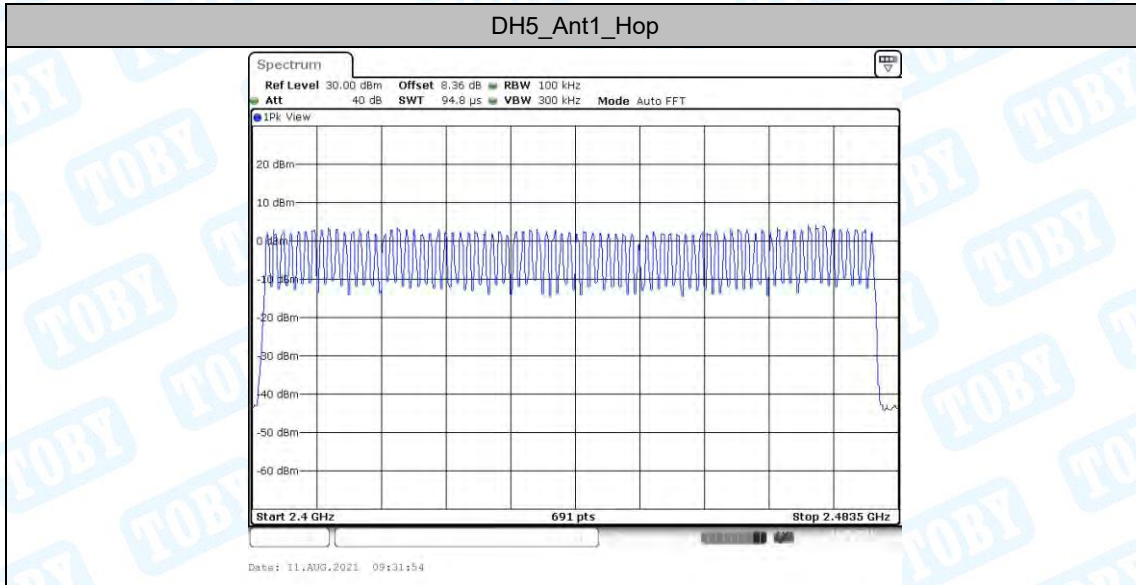
## 6. Number of hopping channels

### 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





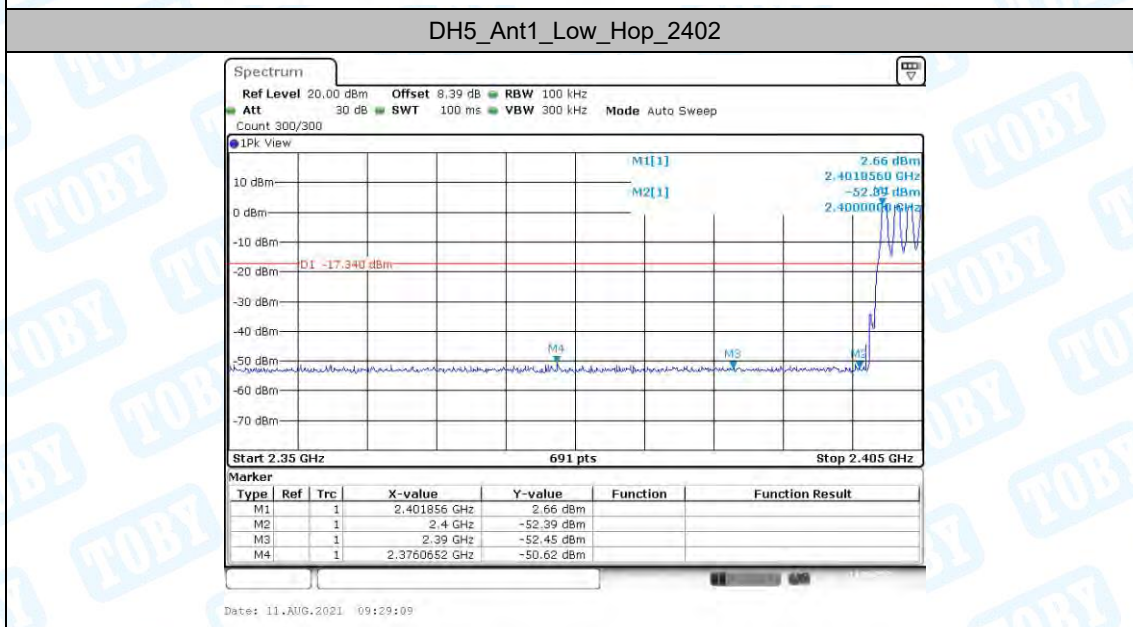
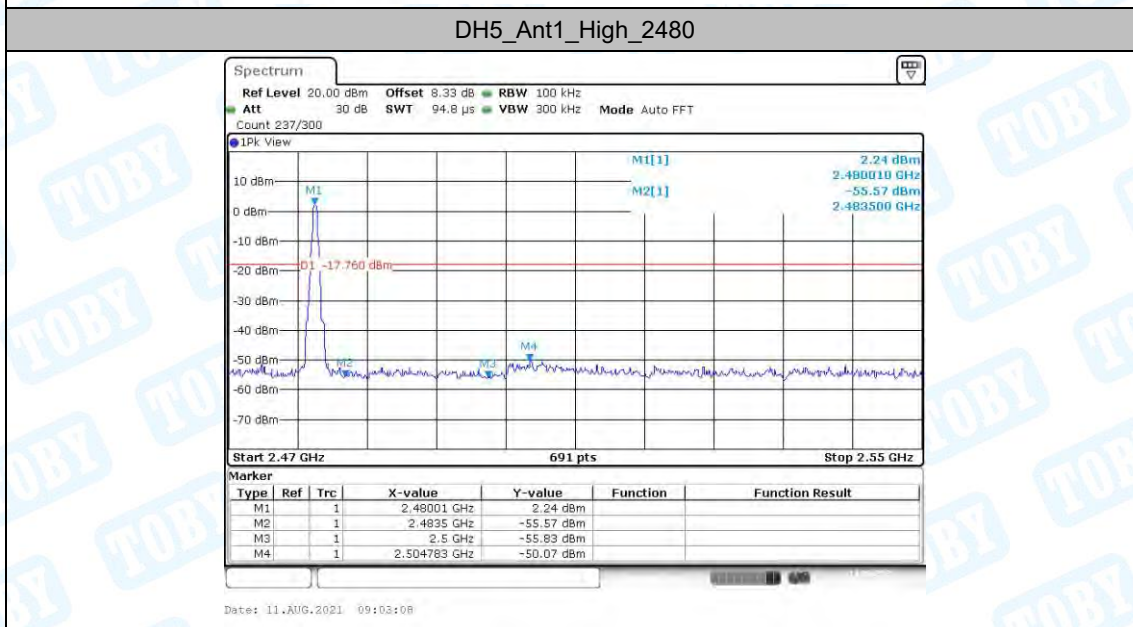
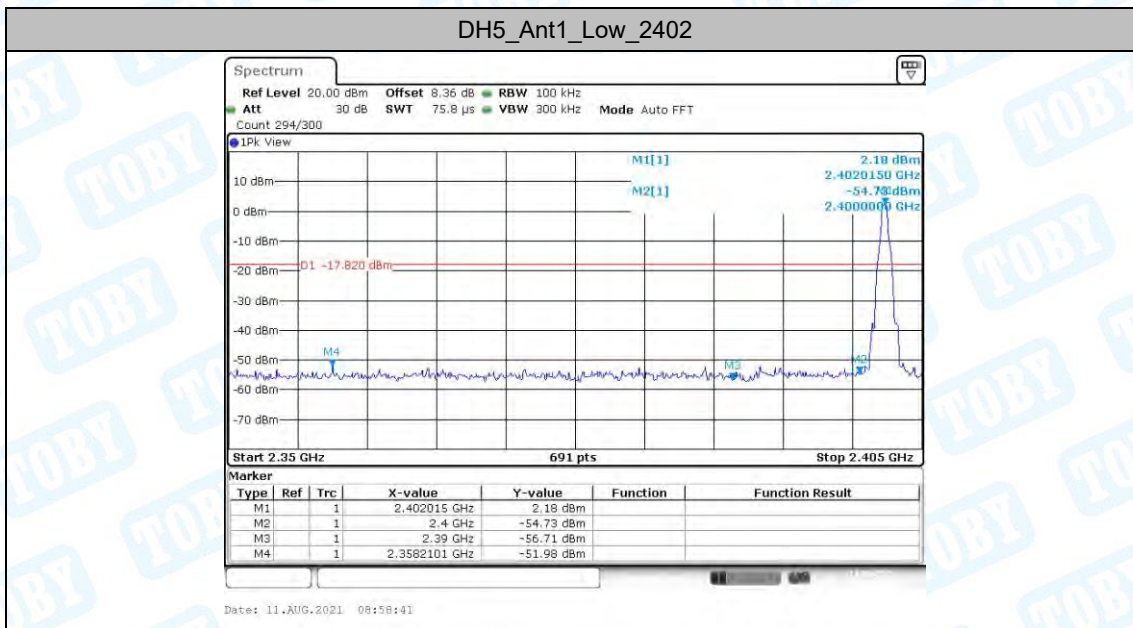
## 7. Band edge measurements

### 7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.18	-51.98	<=-17.82	PASS
		High	2480	2.24	-50.07	<=-17.76	PASS
		Low	Hop_2402	2.66	-50.62	<=-17.34	PASS
		High	Hop_2480	3.17	-50.4	<=-16.83	PASS
2DH5	Ant1	Low	2402	2.38	-44.14	<=-17.62	PASS
		High	2480	2.12	-50.76	<=-17.88	PASS
		Low	Hop_2402	1.44	-52.3	<=-18.56	PASS
		High	Hop_2480	3.63	-49.95	<=-16.37	PASS
3DH5	Ant1	Low	2402	2.14	-46.25	<=-17.86	PASS
		High	2480	1.15	-49.13	<=-18.85	PASS
		Low	Hop_2402	0.76	-52.47	<=-19.24	PASS
		High	Hop_2480	2.74	-50.26	<=-17.26	PASS

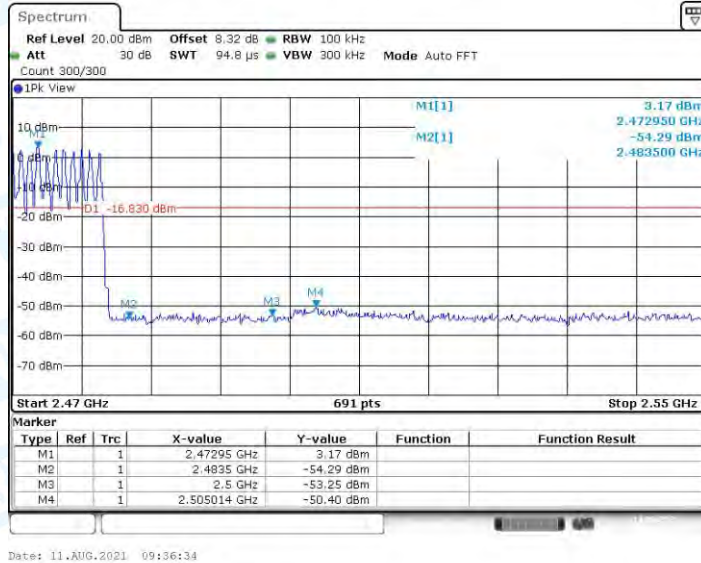


### 7.2. Test Graphs

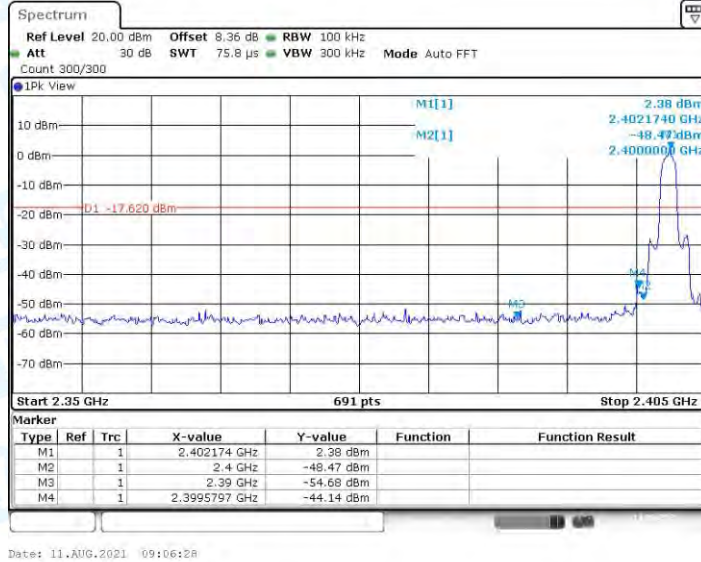




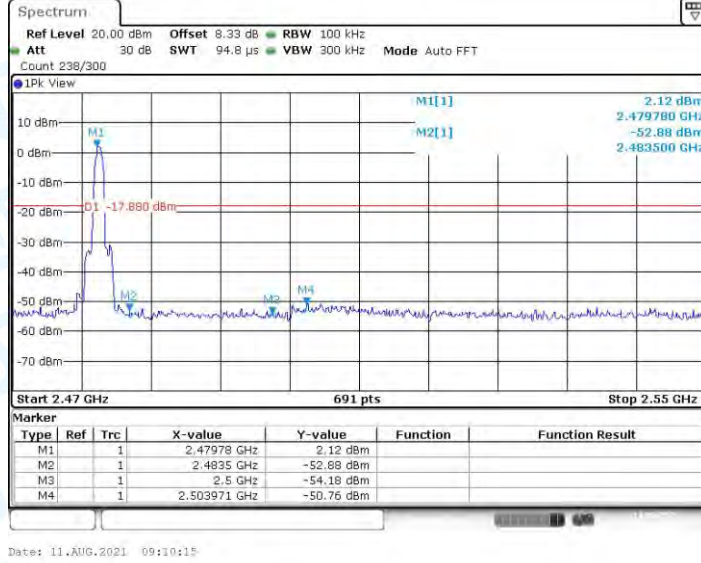
## DH5\_Ant1\_High\_Hop\_2480



## 2DH5\_Ant1\_Low\_2402

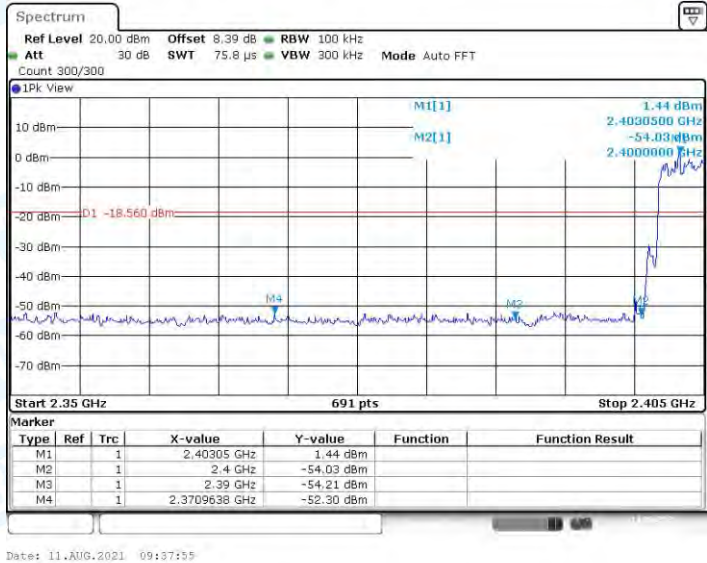


## 2DH5\_Ant1\_High\_2480

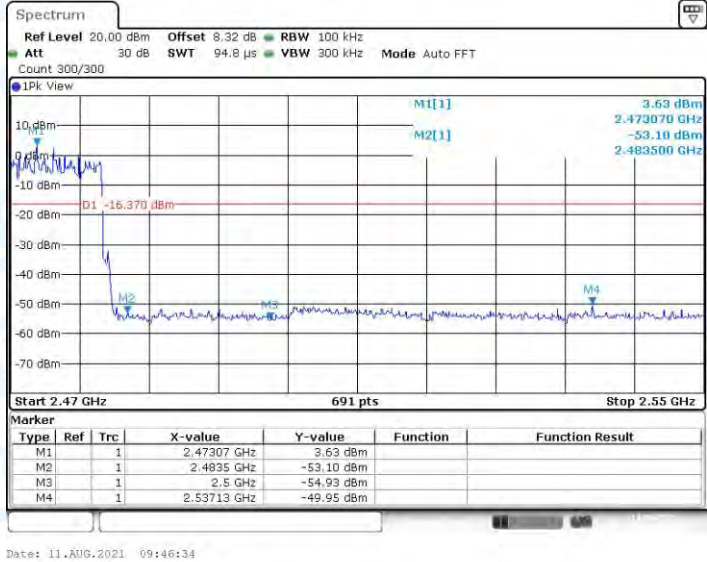




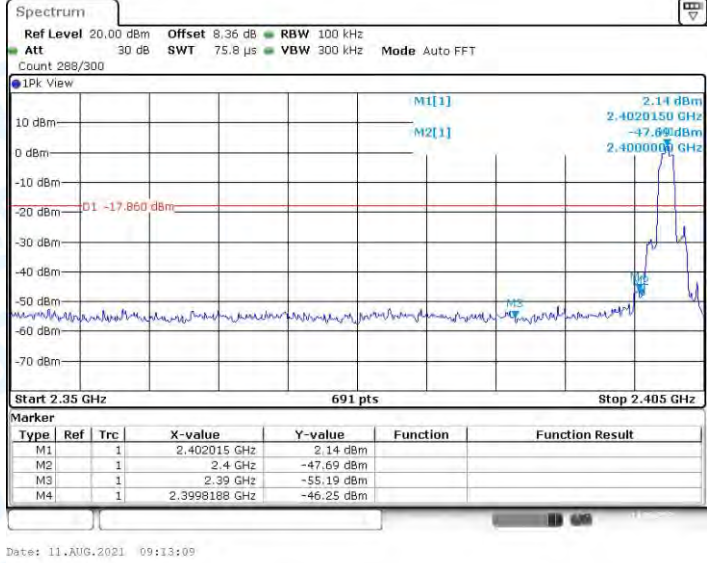
2DH5\_Ant1\_Low\_Hop\_2402



2DH5\_Ant1\_High\_Hop\_2480

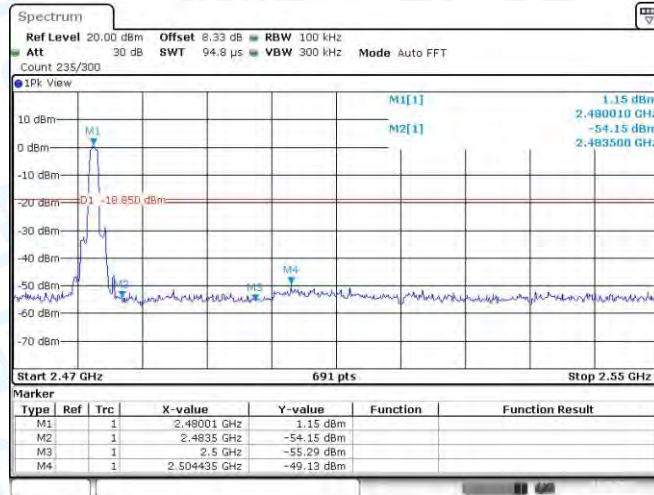


3DH5\_Ant1\_Low\_2402

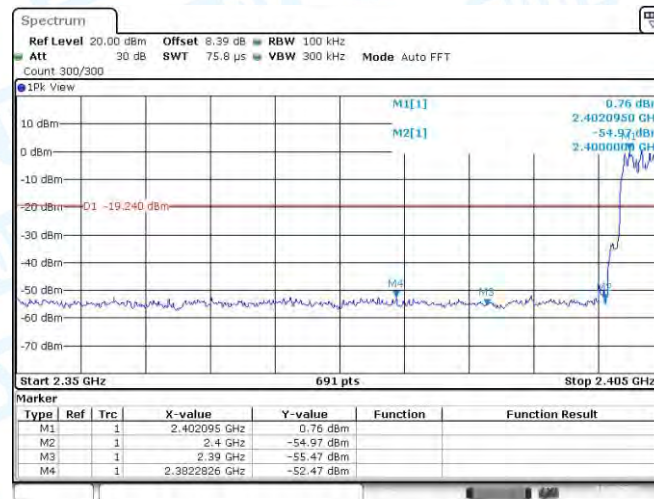




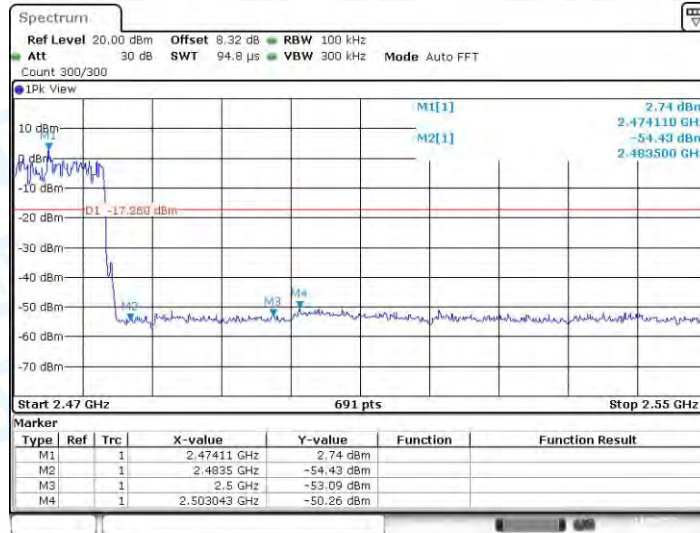
### 3DH5\_Ant1\_High\_2480



### 3DH5\_Ant1\_Low\_Hop\_2402



### 3DH5\_Ant1\_High\_Hop\_2480





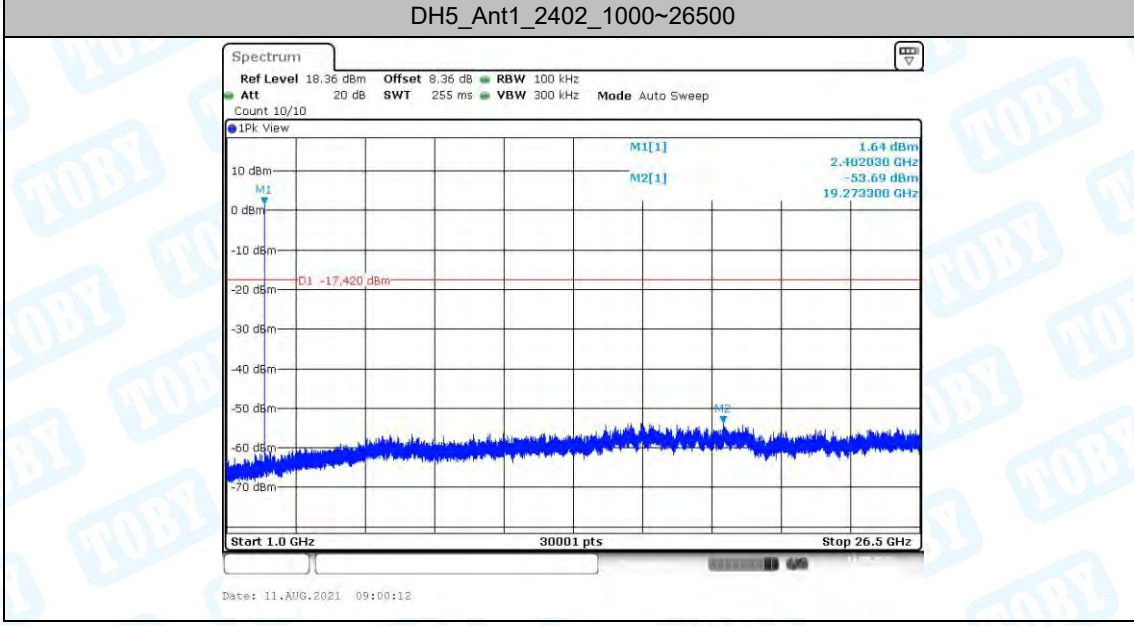
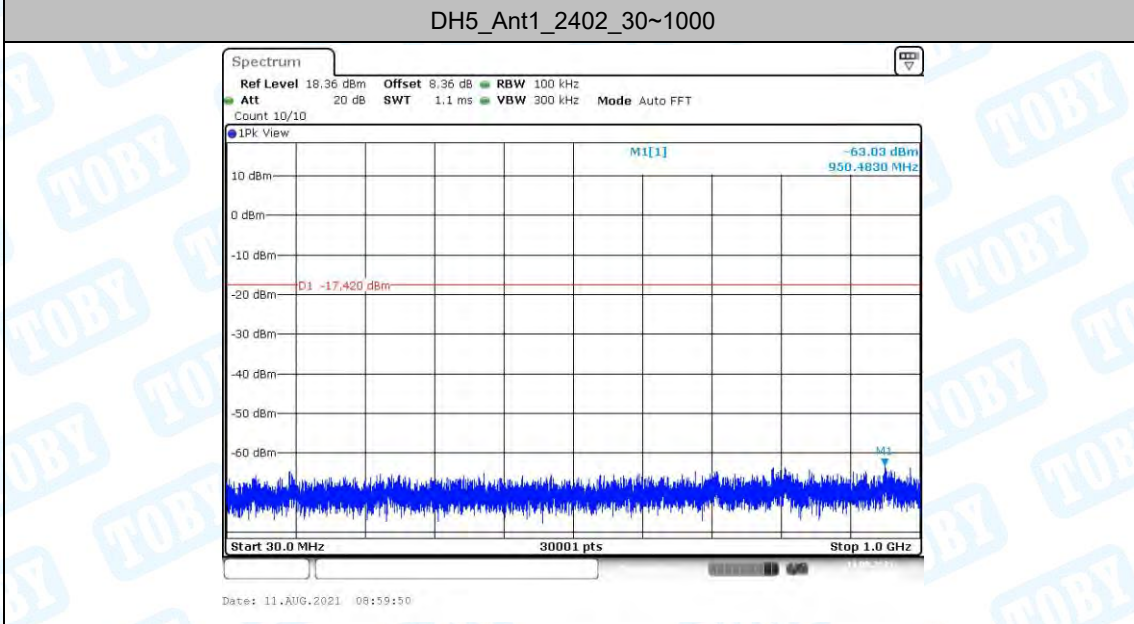
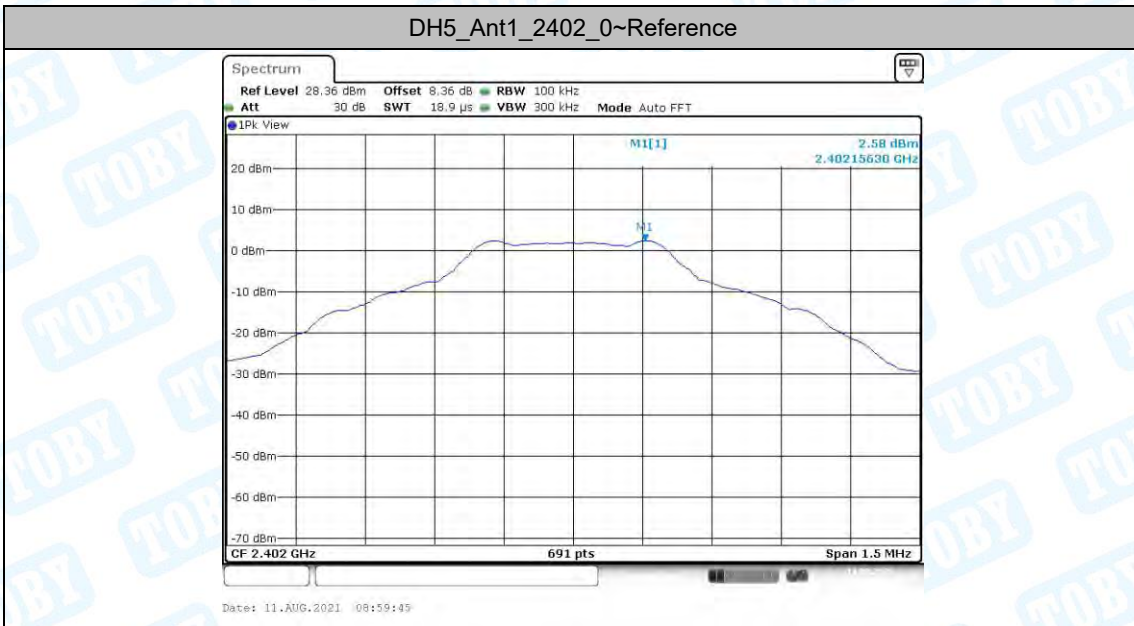
## 8. Conducted Spurious Emission

### 8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-63.03	<=-17.42	PASS
			1000~26500	2.58	-53.69	<=-17.42	PASS
		2441	Reference	2.67	2.67	---	PASS
			30~1000	2.67	-62.65	<=-17.33	PASS
			1000~26500	2.67	-53.06	<=-17.33	PASS
		2480	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-62.2	<=-17.35	PASS
			1000~26500	2.65	-53.49	<=-17.35	PASS
2DH5	Ant1	2402	Reference	2.47	2.47	---	PASS
			30~1000	2.47	-63.38	<=-17.53	PASS
			1000~26500	2.47	-52.7	<=-17.53	PASS
		2441	Reference	2.49	2.49	---	PASS
			30~1000	2.49	-63.35	<=-17.51	PASS
			1000~26500	2.49	-53.67	<=-17.51	PASS
		2480	Reference	2.25	2.25	---	PASS
			30~1000	2.25	-63.08	<=-17.75	PASS
			1000~26500	2.25	-52.29	<=-17.75	PASS
3DH5	Ant1	2402	Reference	3.09	3.09	---	PASS
			30~1000	3.09	-63.56	<=-16.91	PASS
			1000~26500	3.09	-53.44	<=-16.91	PASS
		2441	Reference	3.01	3.01	---	PASS
			30~1000	3.01	-63.14	<=-16.99	PASS
			1000~26500	3.01	-52.44	<=-16.99	PASS
		2480	Reference	2.75	2.75	---	PASS
			30~1000	2.75	-63.06	<=-17.25	PASS
			1000~26500	2.75	-52.8	<=-17.25	PASS

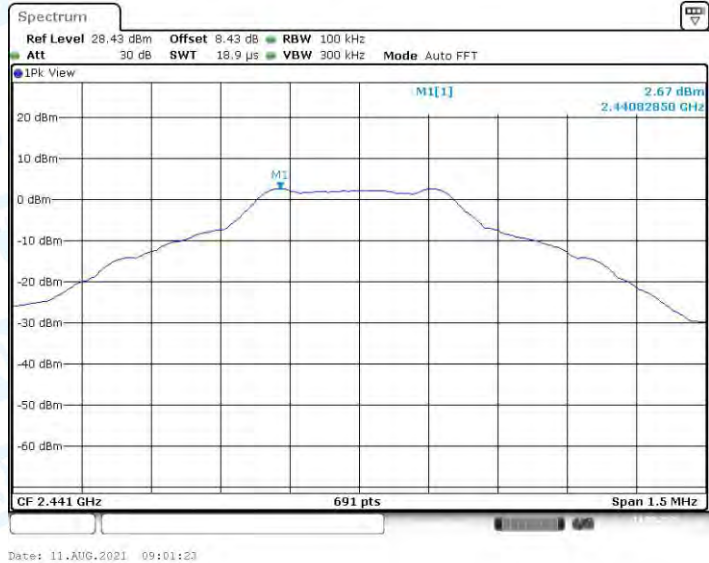


### 8.2. Test Graphs

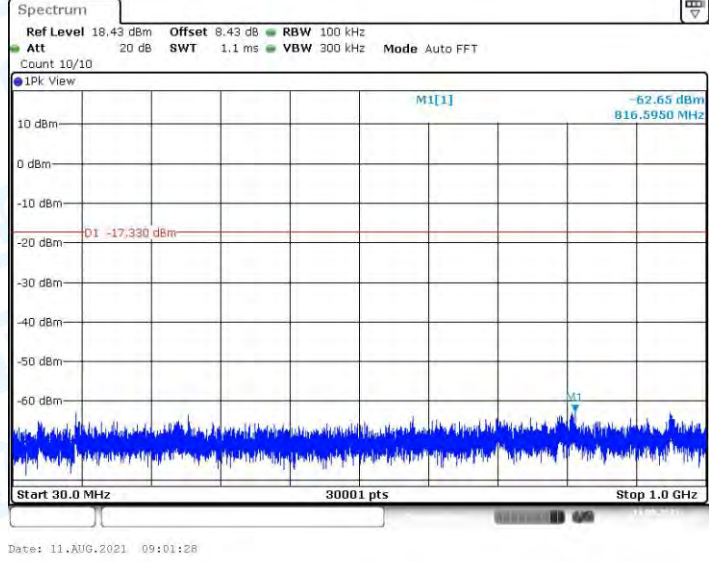




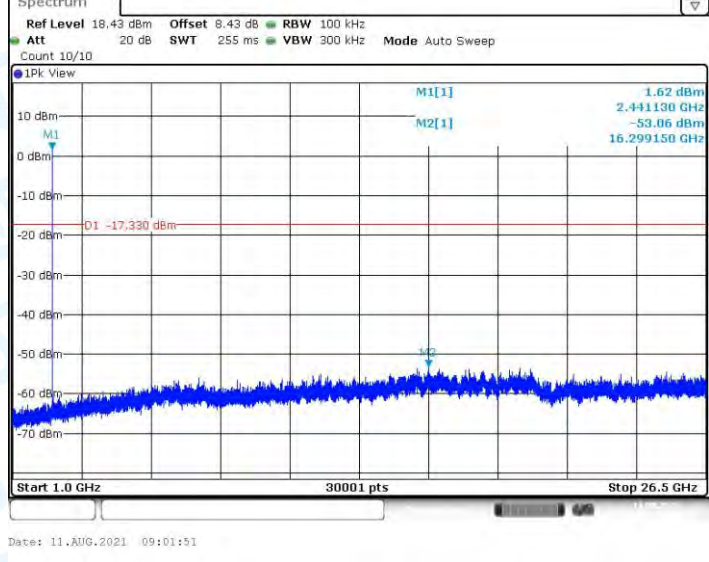
DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000

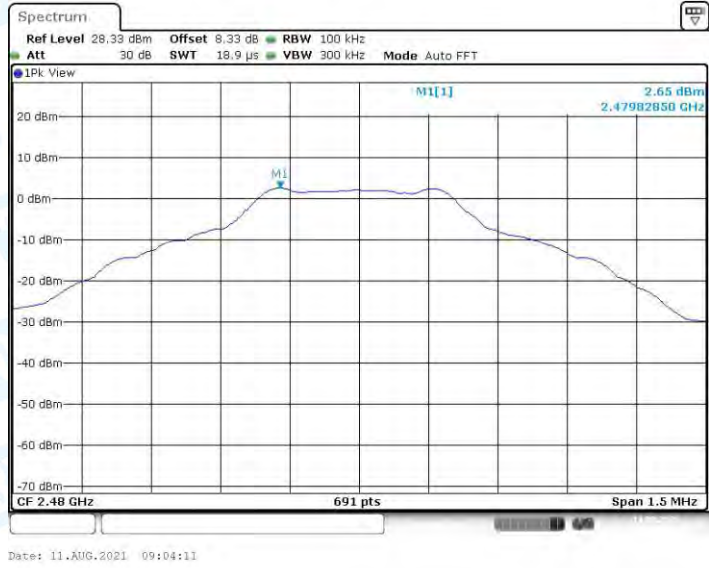


DH5\_Ant1\_2441\_1000~26500

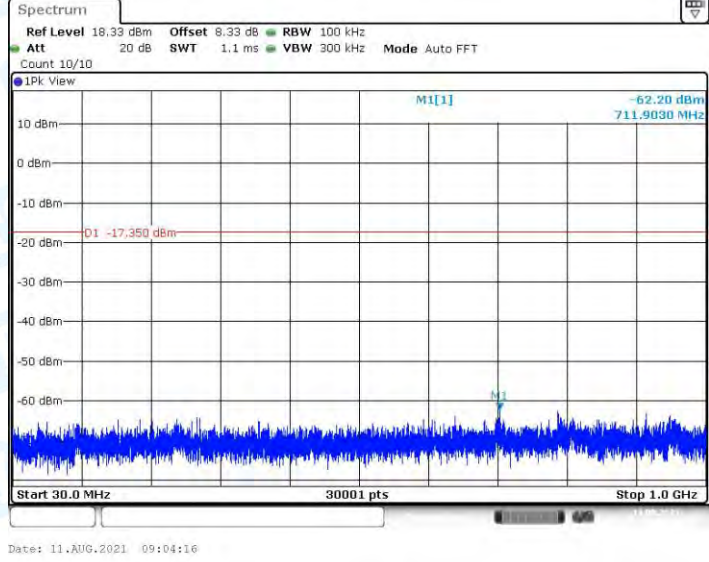




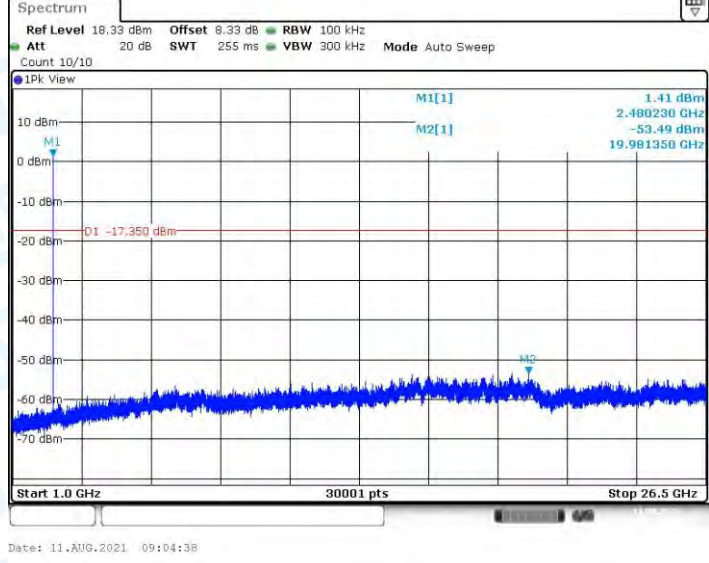
DH5\_Ant1\_2480\_0~Reference



DH5\_Ant1\_2480\_30~1000

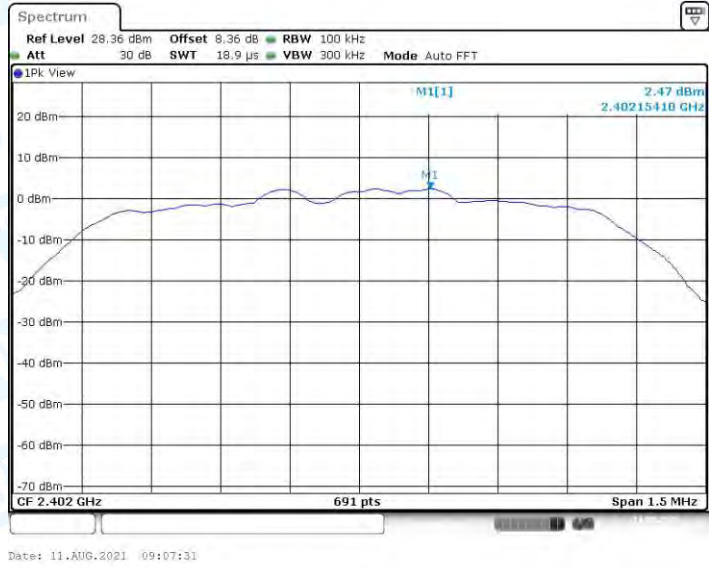


DH5\_Ant1\_2480\_1000~26500

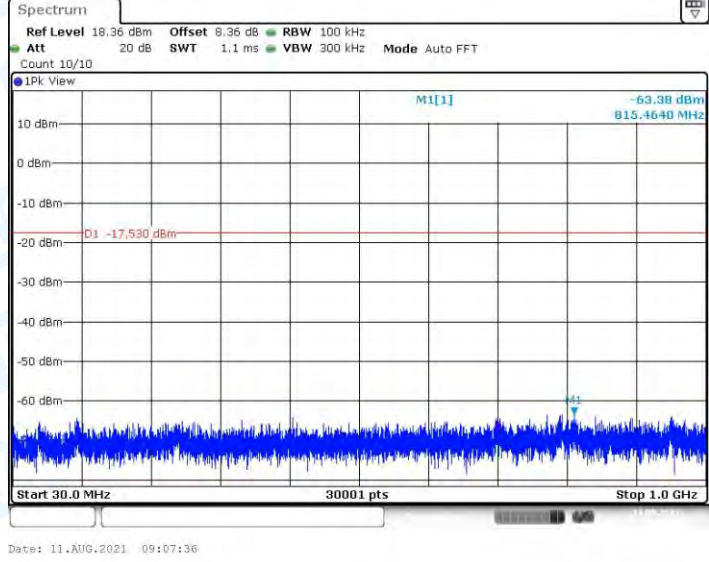




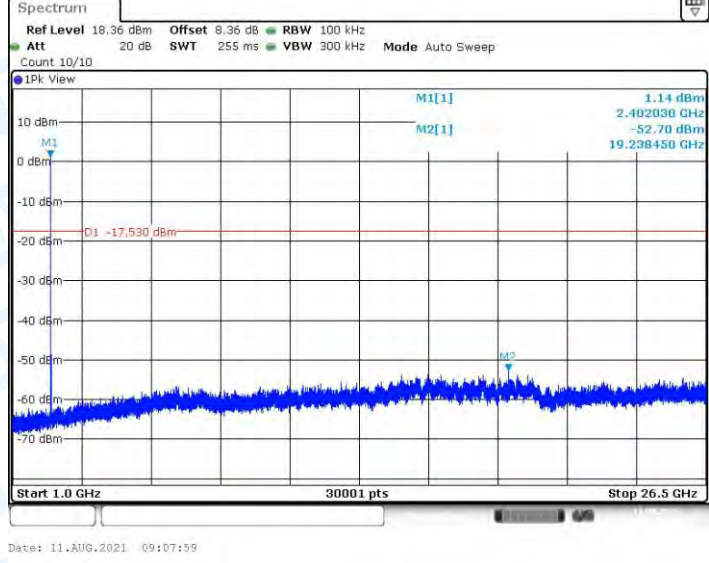
2DH5\_Ant1\_2402\_0~Reference



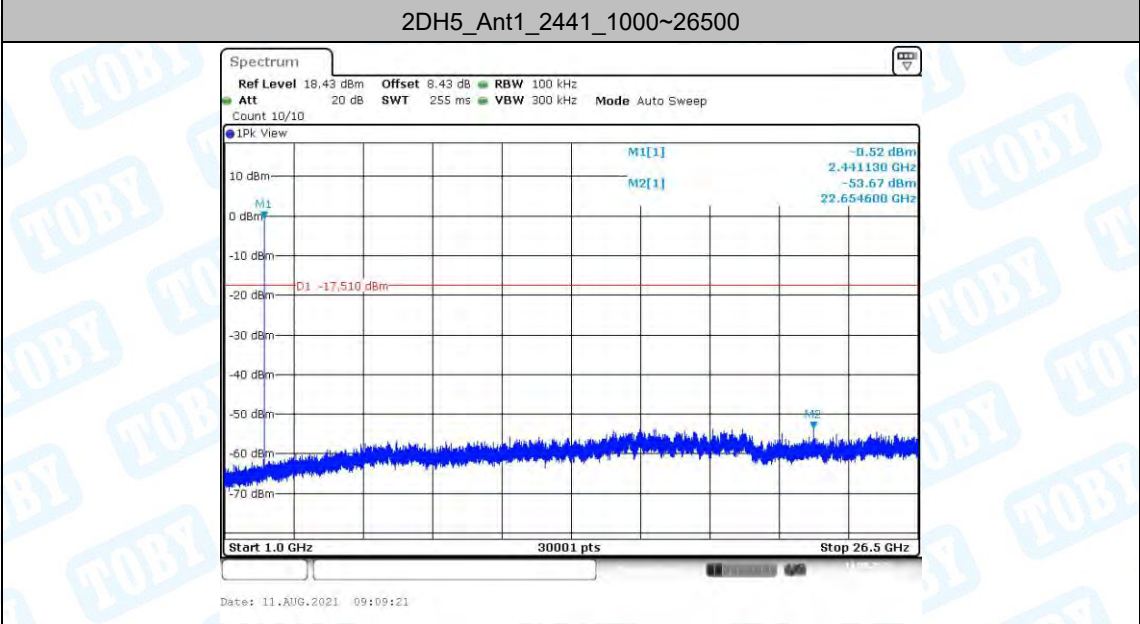
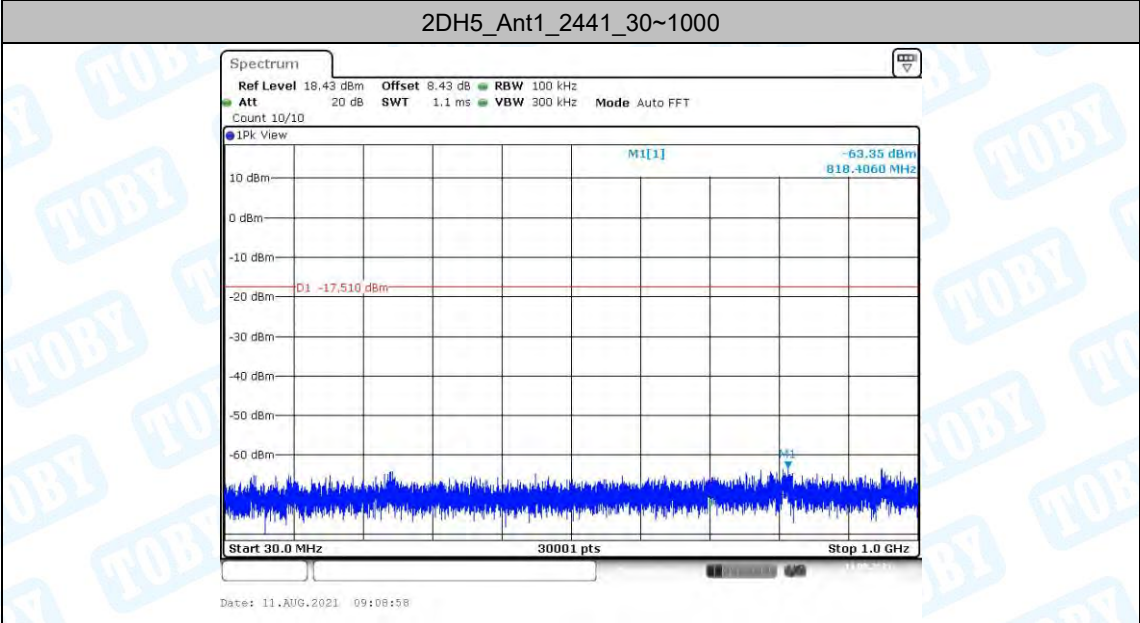
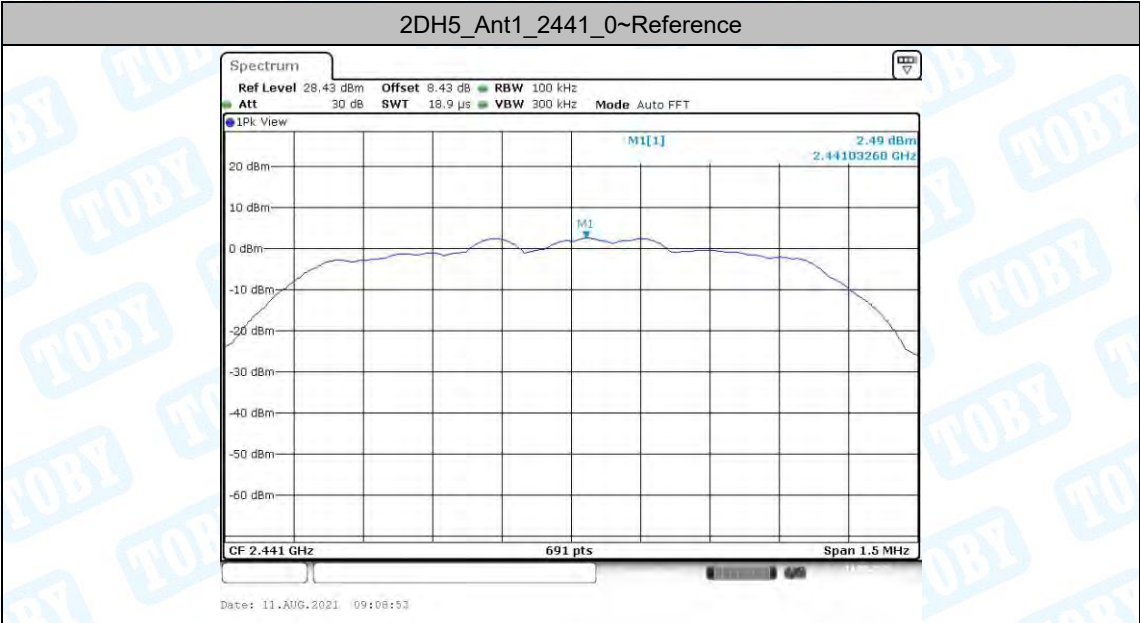
2DH5\_Ant1\_2402\_30~1000



2DH5\_Ant1\_2402\_1000~26500

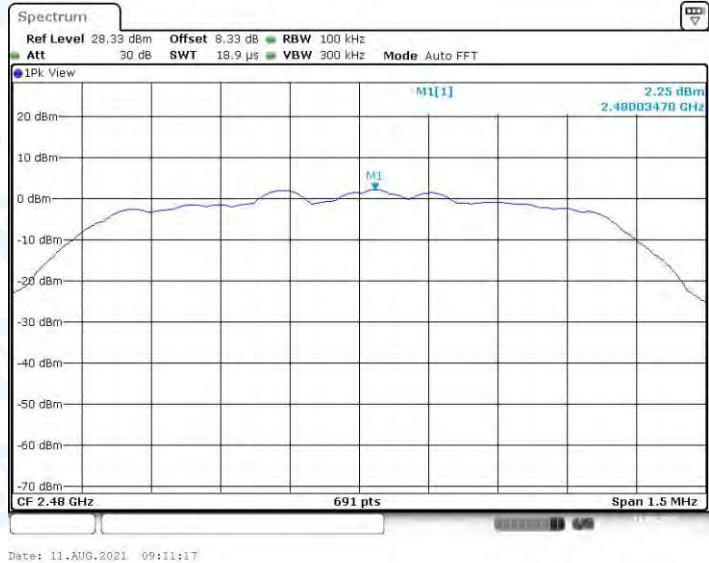




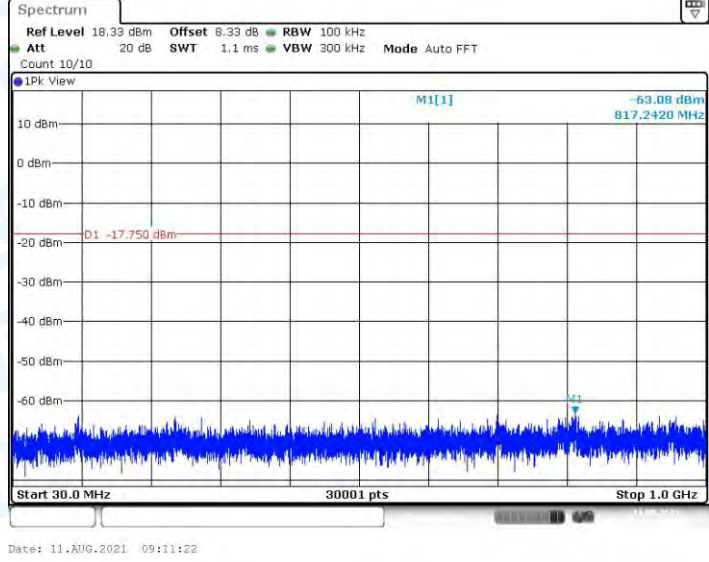




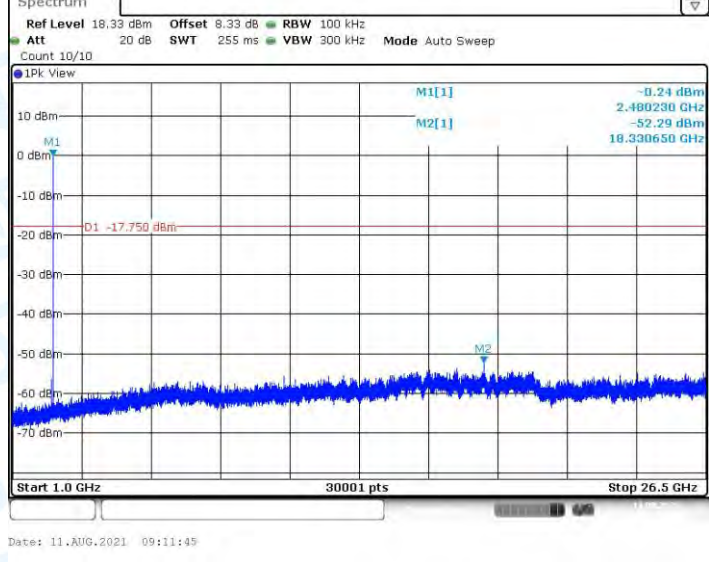
2DH5\_Ant1\_2480\_0~Reference



2DH5\_Ant1\_2480\_30~1000

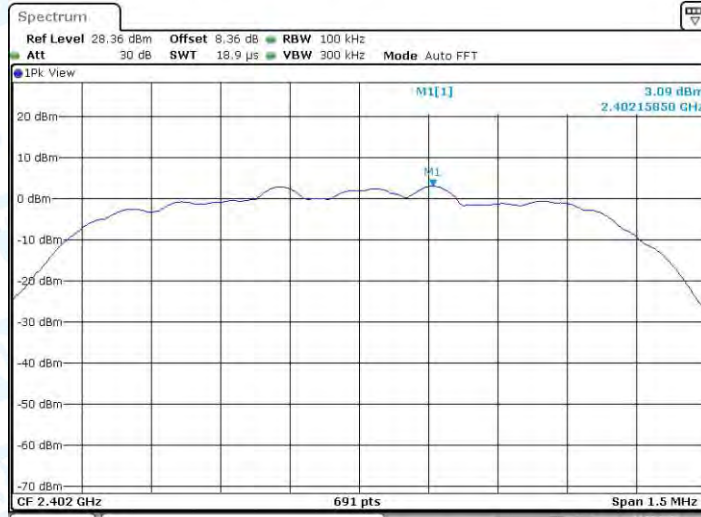


2DH5\_Ant1\_2480\_1000~26500



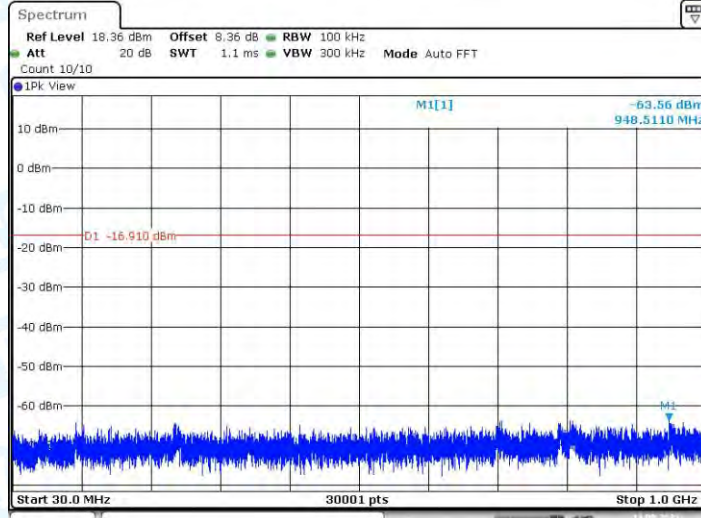


3DH5\_Ant1\_2402\_0~Reference



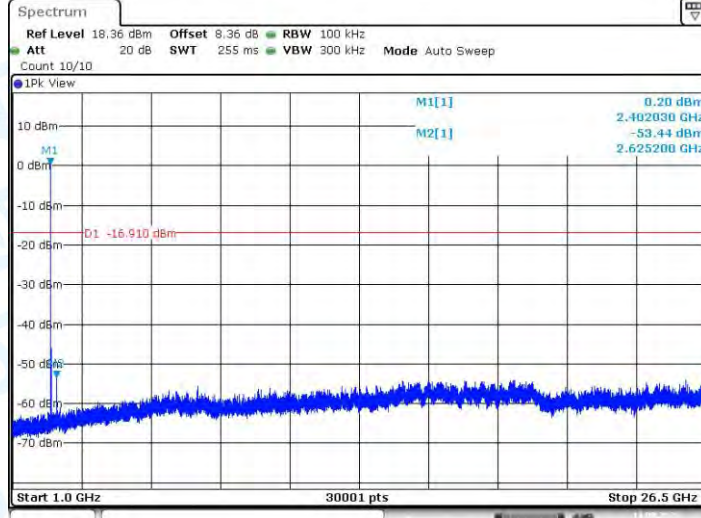
Date: 11.AUG.2021 09:14:12

3DH5\_Ant1\_2402\_30~1000



Date: 11.AUG.2021 09:14:17

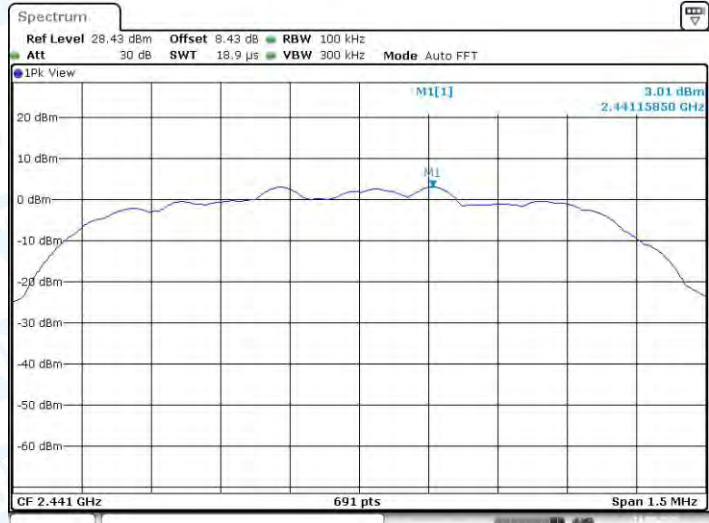
3DH5\_Ant1\_2402\_1000~26500



Date: 11.AUG.2021 09:14:40

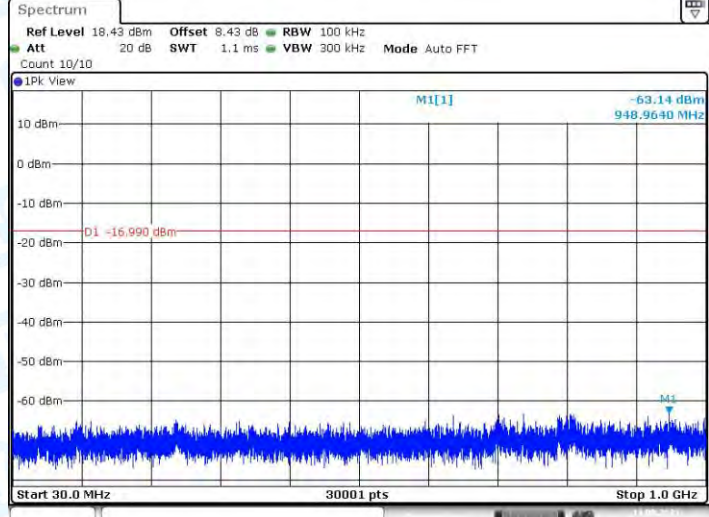


3DH5\_Ant1\_2441\_0~Reference



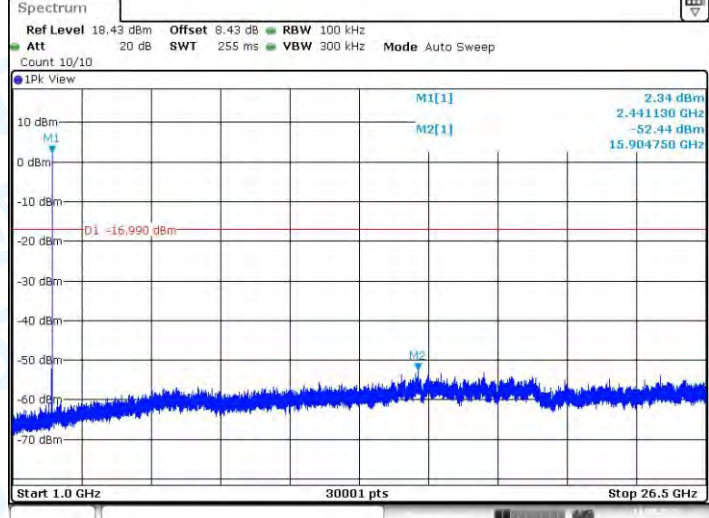
Date: 11.AUG.2021 09:15:33

3DH5\_Ant1\_2441\_30~1000



Date: 11.AUG.2021 09:15:38

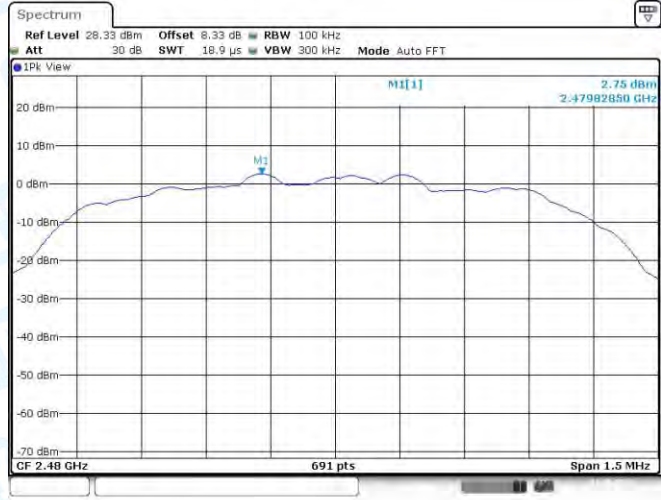
3DH5\_Ant1\_2441\_1000~26500



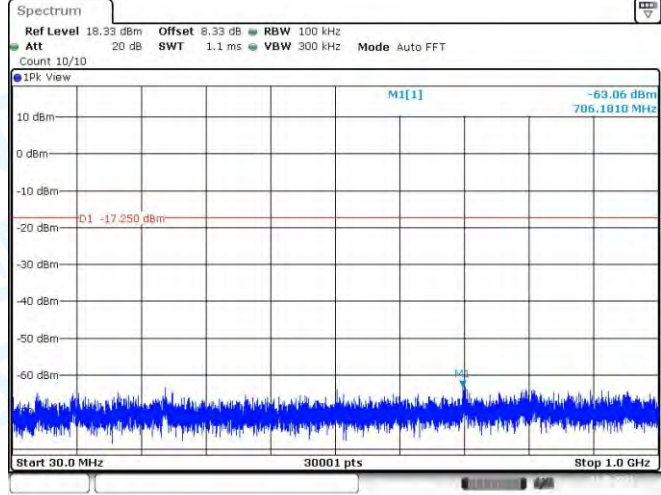
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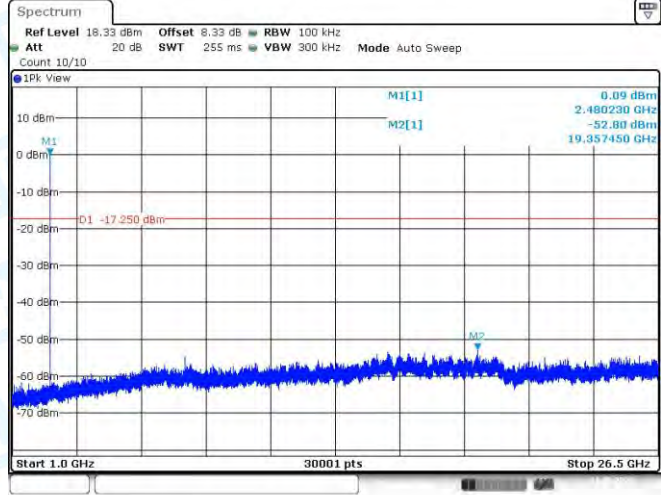
3DH5\_Ant1\_2480\_0~Reference



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	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-54.33	<=-41.2 0	PASS
				AV	2340.935	-51.93	<=-41.2 0	PASS
				AV	2390.000	-54.23	<=-41.2 0	PASS
				Peak	2310.000	-43.35	<=-21.2 0	PASS
				Peak	2342.152	-39.08	<=-21.2 0	PASS
				Peak	2390.000	-42.49	<=-21.2 0	PASS
		High	2480	AV	2483.500	-53.06	<=-41.2 0	PASS
				AV	2484.029	-52.96	<=-41.2 0	PASS
				AV	2500.000	-53.32	<=-41.2 0	PASS
				Peak	2483.500	-42.46	<=-21.2 0	PASS
				Peak	2485.072	-41.03	<=-21.2 0	PASS
				Peak	2500.000	-41.41	<=-21.2 0	PASS
		Low	Hop_240 2	Peak	2310.000	-43.11	<=-21.2 0	PASS
				Peak	2340.935	-38.68	<=-21.2 0	PASS
				Peak	2390.000	-43.73	<=-21.2 0	PASS
		High	Hop_248 0	Peak	2483.500	-44.41	<=-21.2 0	PASS
				Peak	2499.333	-41.04	<=-21.2 0	PASS
				Peak	2500.000	-42.23	<=-21.2 0	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-54.33	<=-41.2 0	PASS
				AV	2341.087	-51.88	<=-41.2 0	PASS
				AV	2390.000	-54.16	<=-41.2 0	PASS



		High	2480	Peak	2310.000	-42.31	<=-21.2 0	PASS		
				Peak	2332.565	-39.76	<=-21.2 0	PASS		
				Peak	2390.000	-44	<=-21.2 0	PASS		
				AV	2483.500	-52.78	<=-41.2 0	PASS		
				AV	2483.565	-52.8	<=-41.2 0	PASS		
				AV	2500.000	-53.35	<=-41.2 0	PASS		
				Peak	2483.500	-42.99	<=-21.2 0	PASS		
				Peak	2486.580	-40.24	<=-21.2 0	PASS		
				Peak	2500.000	-42.59	<=-21.2 0	PASS		
		Low	Hop_240 2	Peak	2310.000	-43.56	<=-21.2 0	PASS		
				Peak	2344.130	-39.2	<=-21.2 0	PASS		
				Peak	2390.000	-41.54	<=-21.2 0	PASS		
		High	Hop_248 0	Peak	2483.500	-44.65	<=-21.2 0	PASS		
				Peak	2491.333	-40.91	<=-21.2 0	PASS		
				Peak	2500.000	-41.94	<=-21.2 0	PASS		
		3DH5	Ant1	Low	2402	AV	2310.000	-54.28	<=-41.2 0	PASS
						AV	2340.783	-51.88	<=-41.2 0	PASS
						AV	2390.000	-54.14	<=-41.2 0	PASS
Peak	2310.000					-42.82	<=-21.2 0	PASS		
Peak	2339.870					-39.79	<=-21.2 0	PASS		
Peak	2390.000					-43.12	<=-21.2 0	PASS		
High	2480			AV	2483.500	-52.78	<=-41.2 0	PASS		
				AV	2483.565	-52.78	<=-41.2 0	PASS		
				AV	2500.000	-53.3	<=-41.2	PASS		



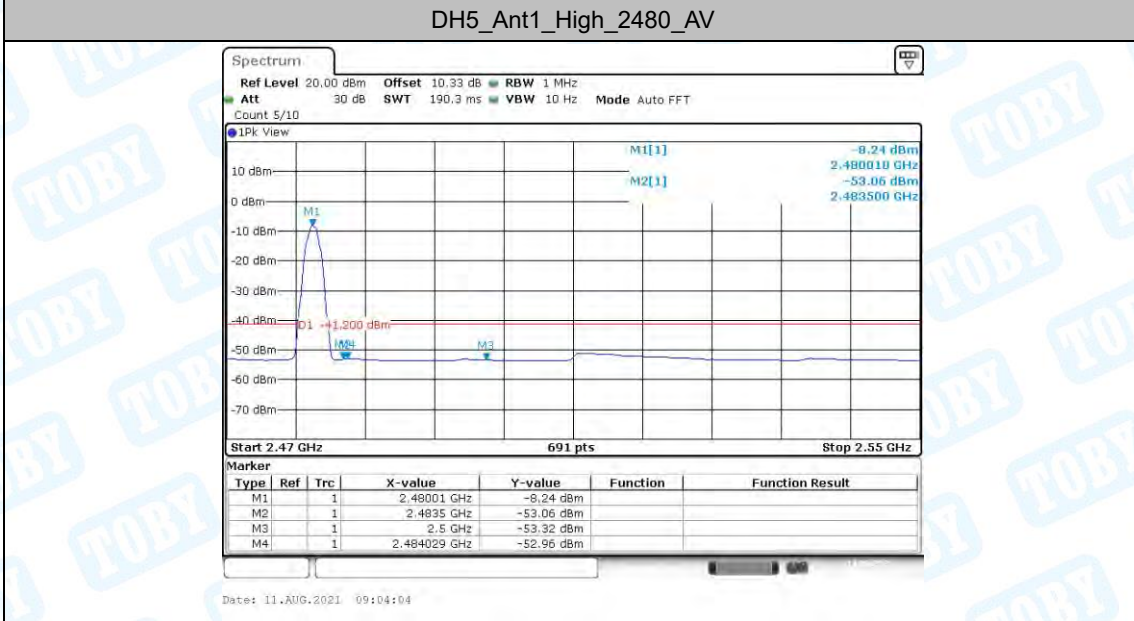
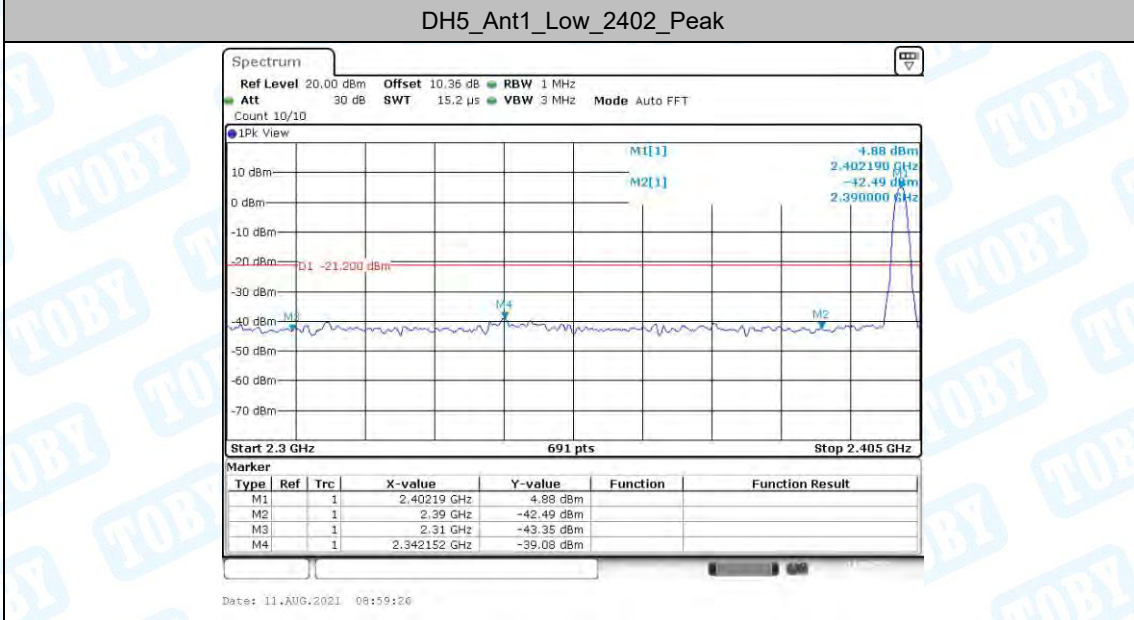
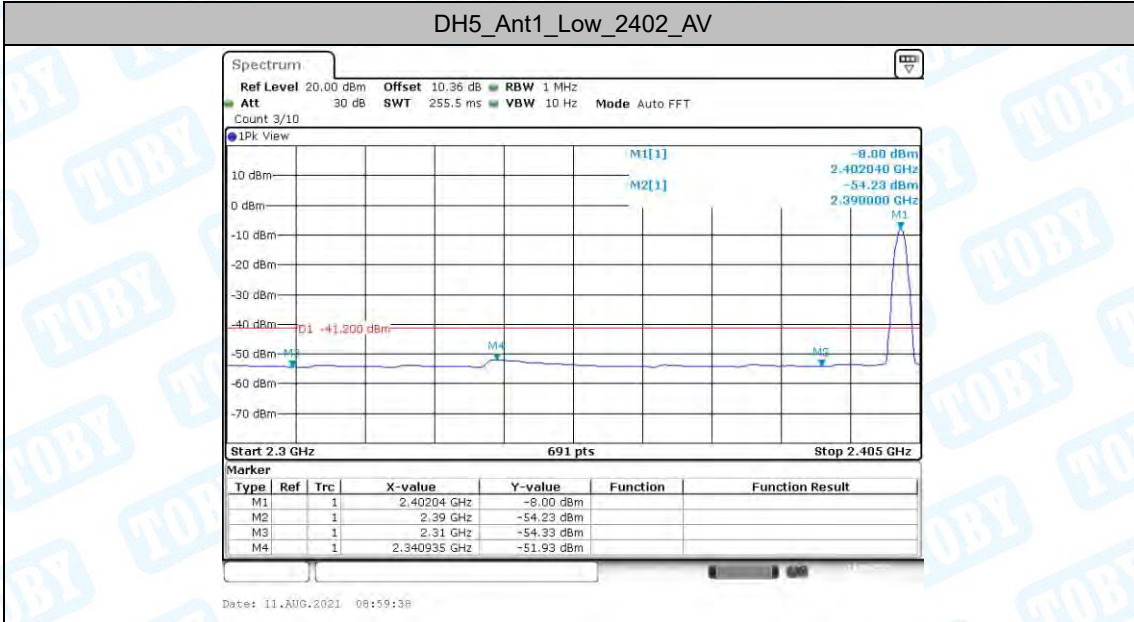
						0	
			Peak	2483.500	-43.8	<=-21.2 0	PASS
			Peak	2497.594	-40.6	<=-21.2 0	PASS
			Peak	2500.000	-41.3	<=-21.2 0	PASS
	Low	Hop_240 2	Peak	2310.000	-43.93	<=-21.2 0	PASS
			Peak	2347.022	-40.23	<=-21.2 0	PASS
			Peak	2390.000	-42.15	<=-21.2 0	PASS
	High	Hop_248 0	Peak	2483.500	-43.79	<=-21.2 0	PASS
			Peak	2484.841	-40.47	<=-21.2 0	PASS
			Peak	2500.000	-41.62	<=-21.2 0	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.

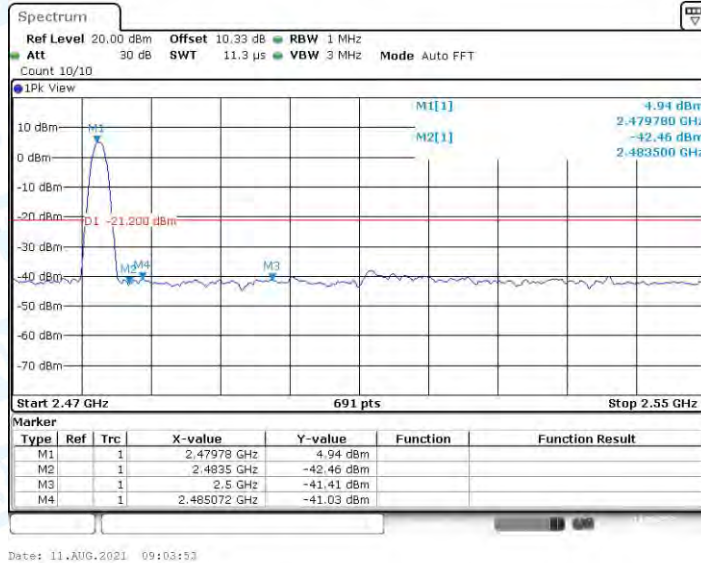


**9.2. Test Graphs**

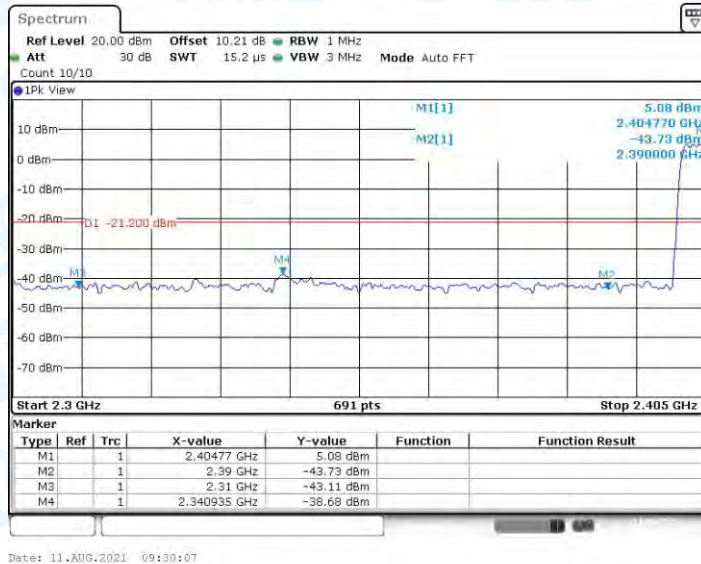




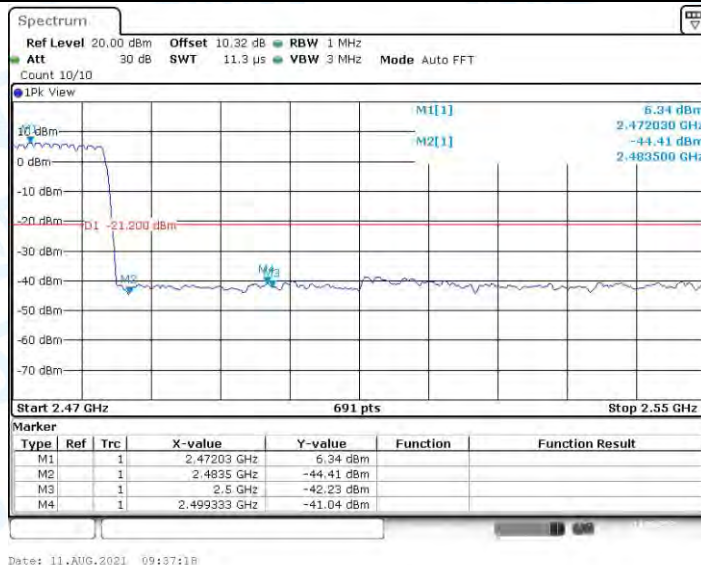
### DH5\_Ant1\_High\_2480\_Peak



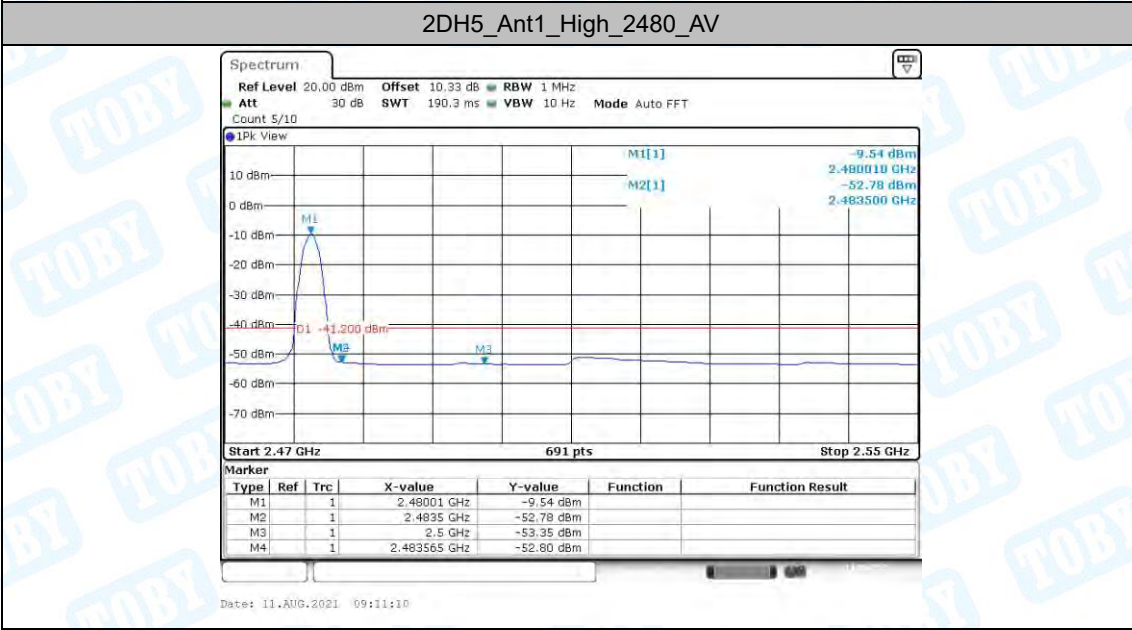
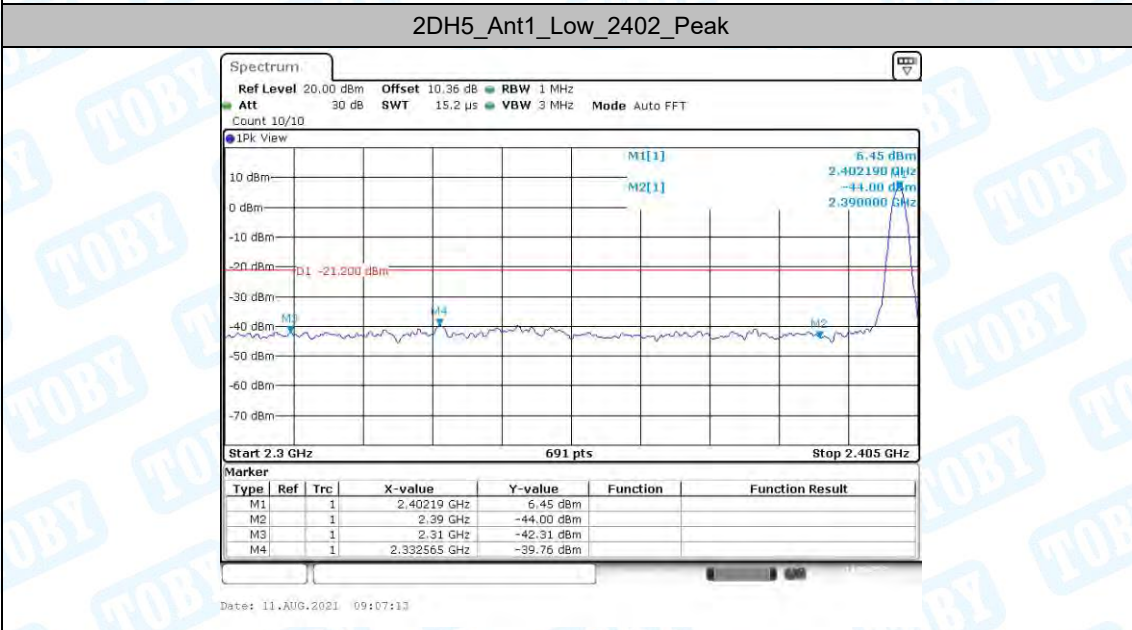
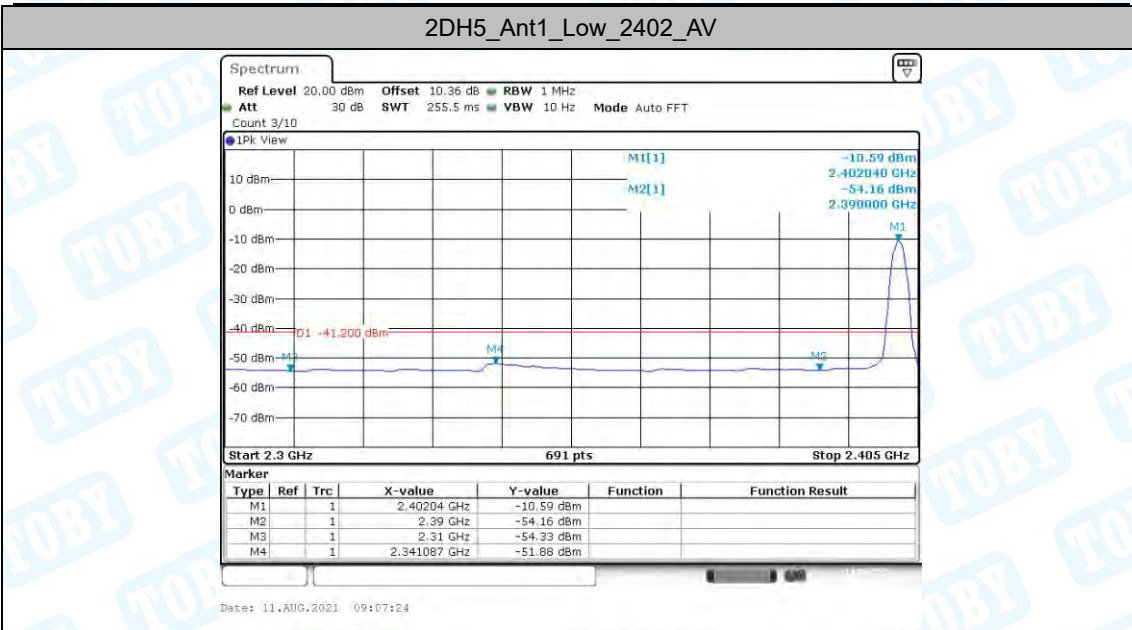
### DH5\_Ant1\_Low\_Hop\_2402\_Peak



### DH5\_Ant1\_High\_Hop\_2480\_Peak

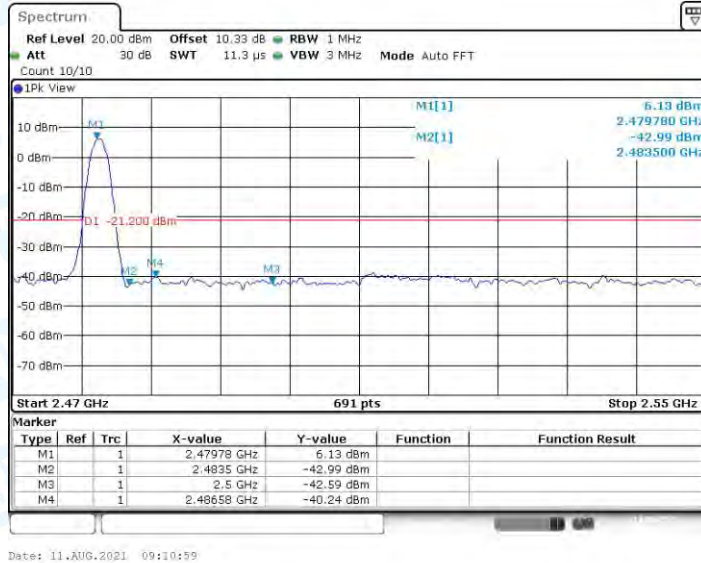




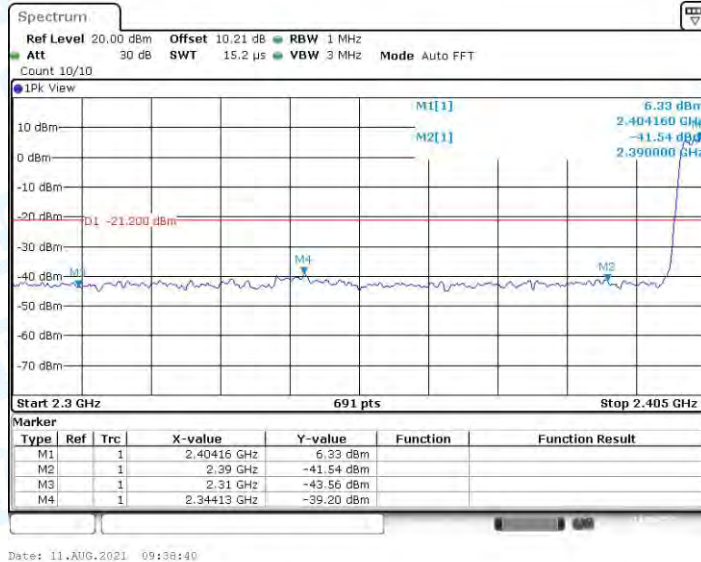




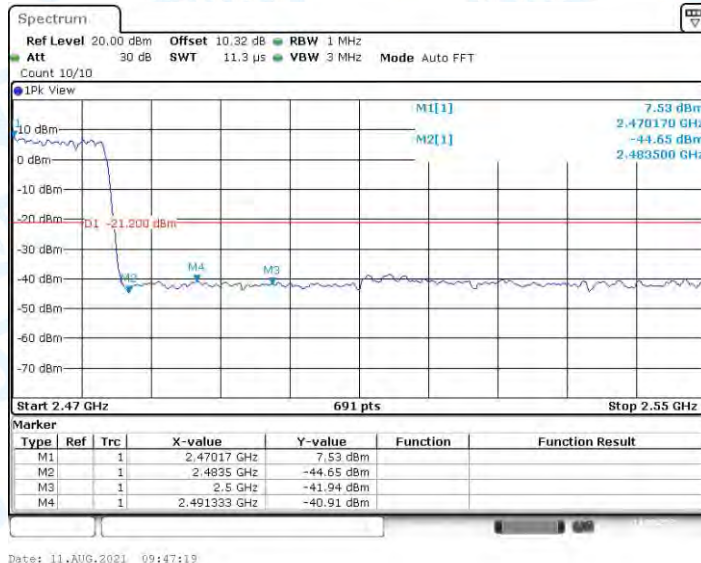
### 2DH5\_Ant1\_High\_2480\_Peak



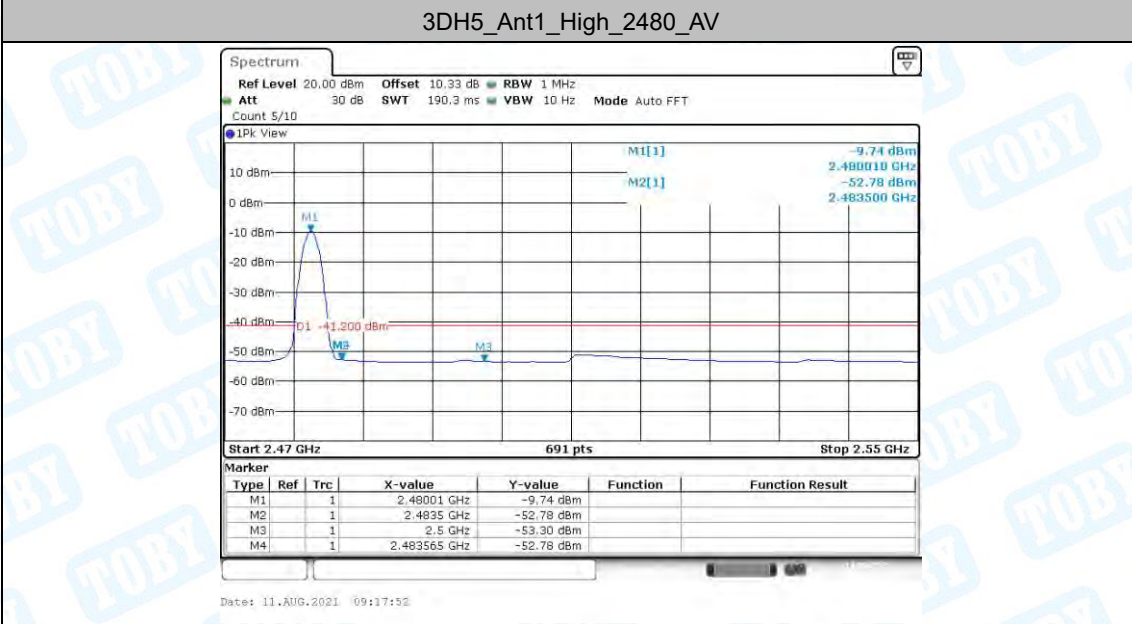
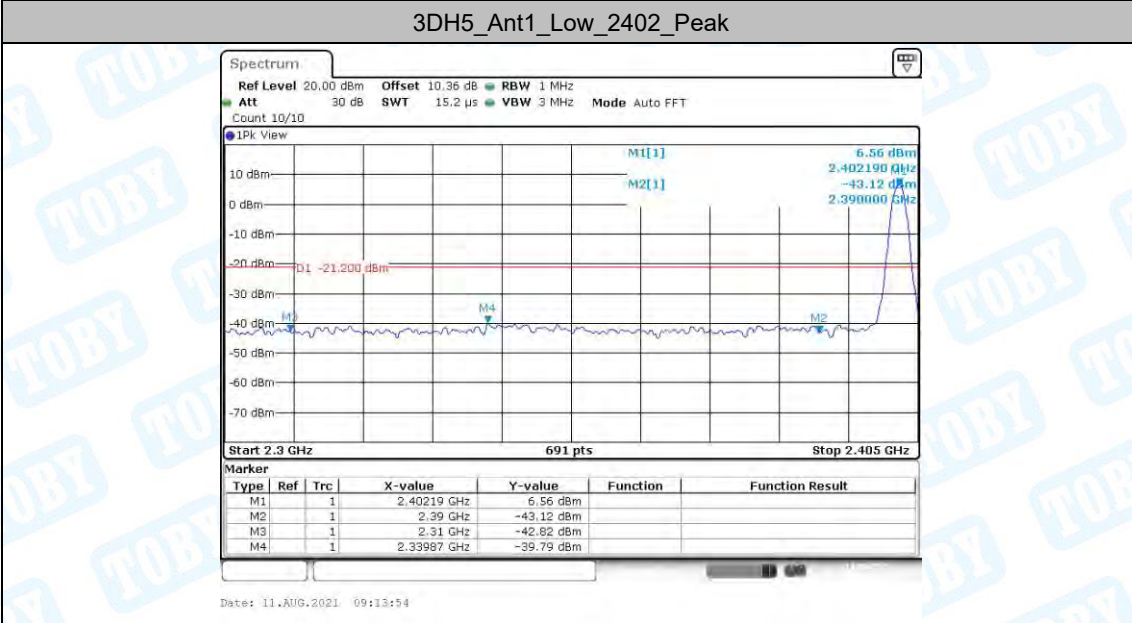
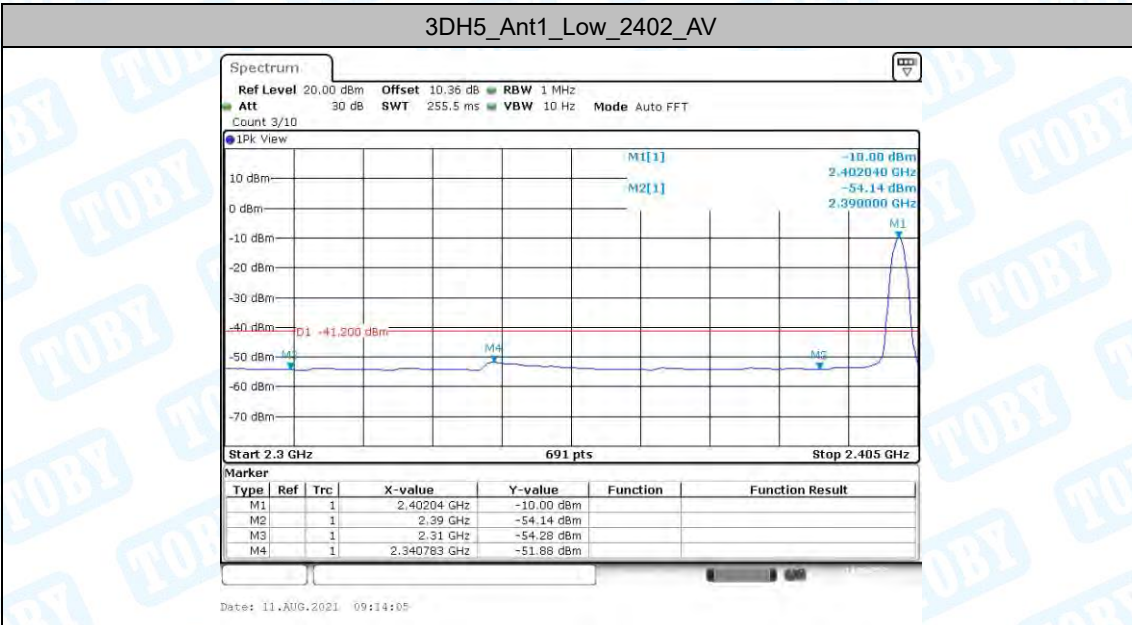
### 2DH5\_Ant1\_Low\_Hop\_2402\_Peak



### 2DH5\_Ant1\_High\_Hop\_2480\_Peak

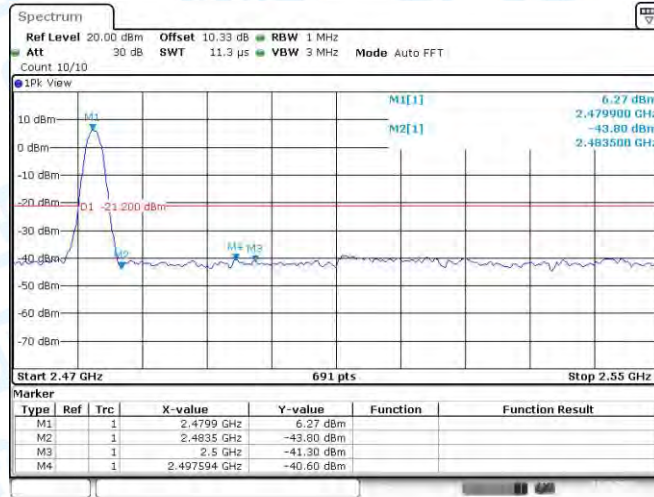




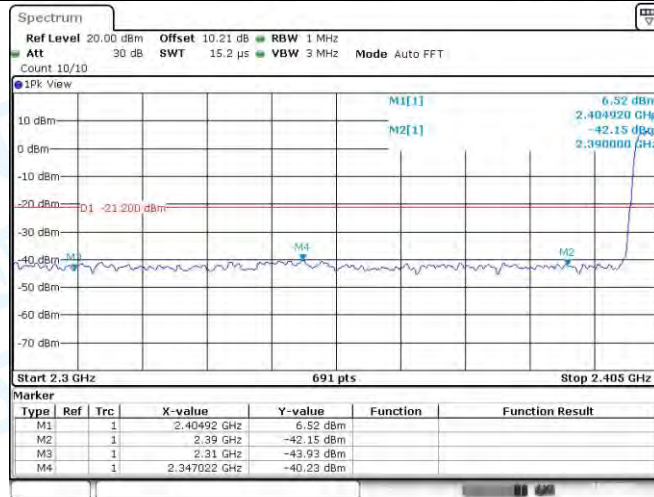




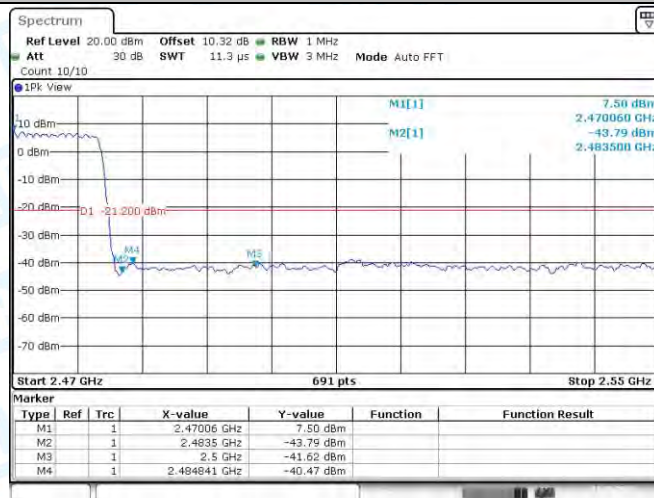
### 3DH5\_Ant1\_High\_2480\_Peak



### 3DH5\_Ant1\_Low\_Hop\_2402\_Peak



### 3DH5\_Ant1\_High\_Hop\_2480\_Peak



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