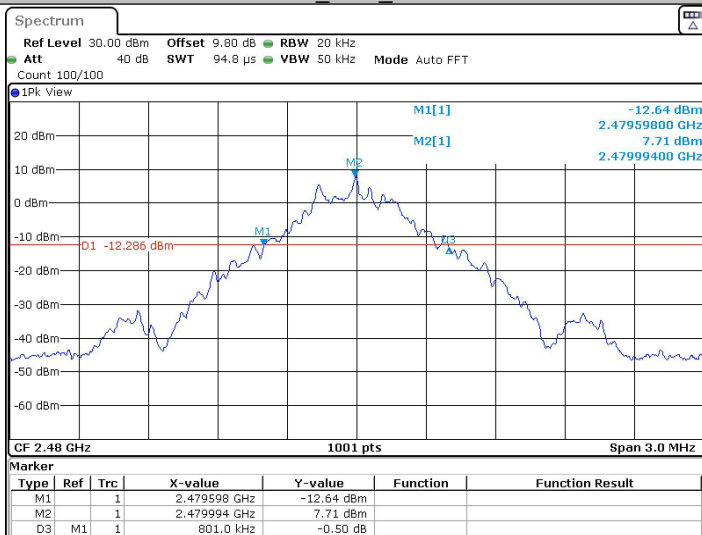
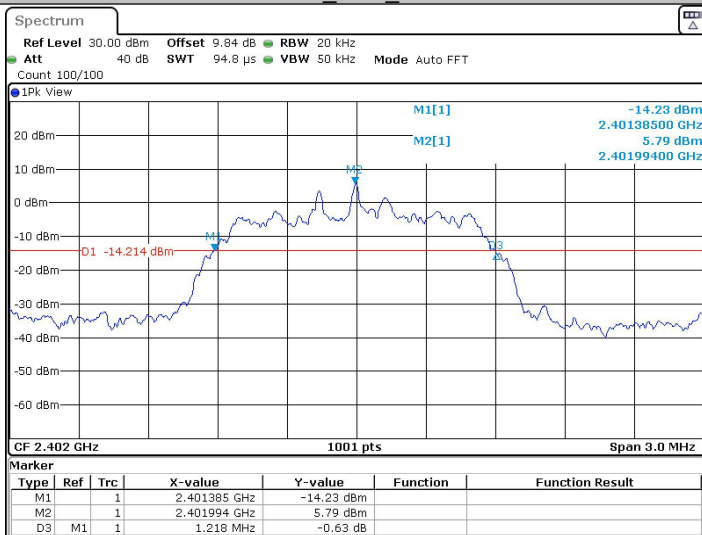


DH5_Ant1_2480



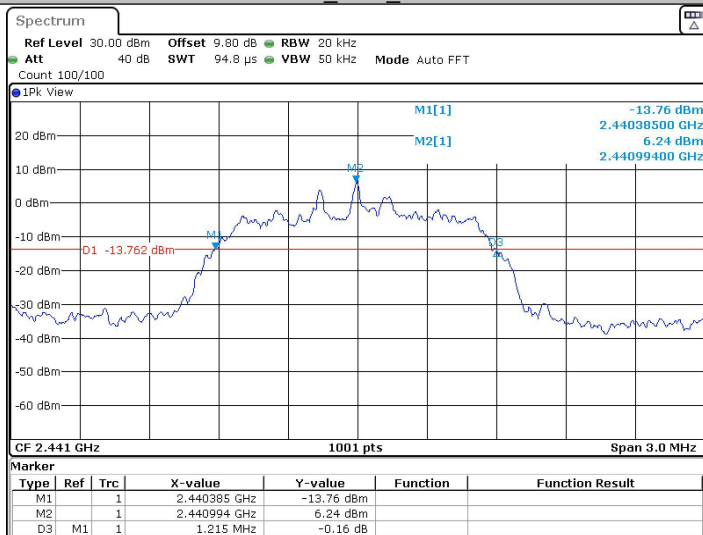
Date: 17 JAN 2022 08:06:09

2DH5_Ant1_2402



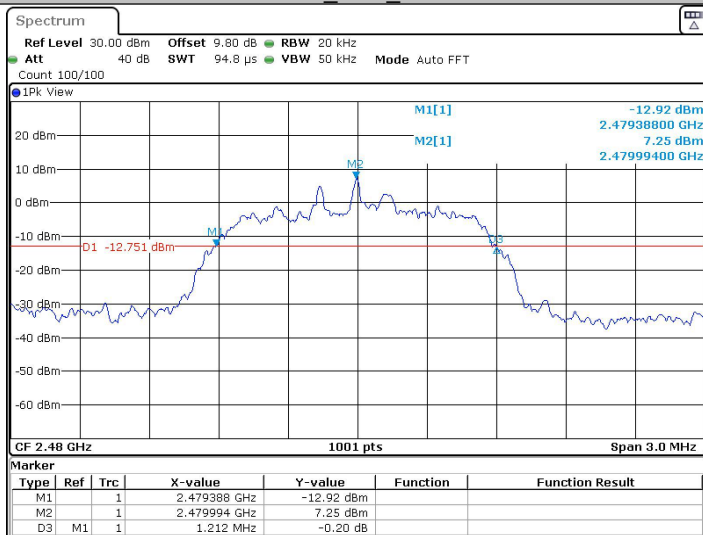
Date: 17 JAN 2022 08:09:57

2DH5_Ant1_2441



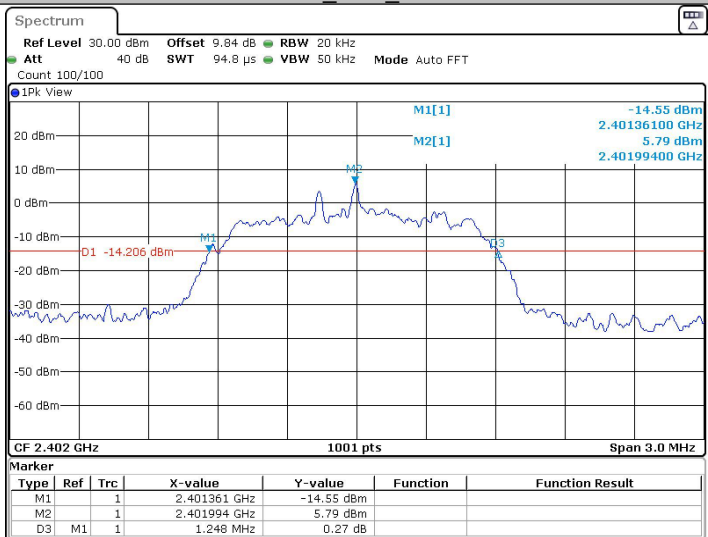
Date: 17 JAN 2022 08:13:59

2DH5_Ant1_2480



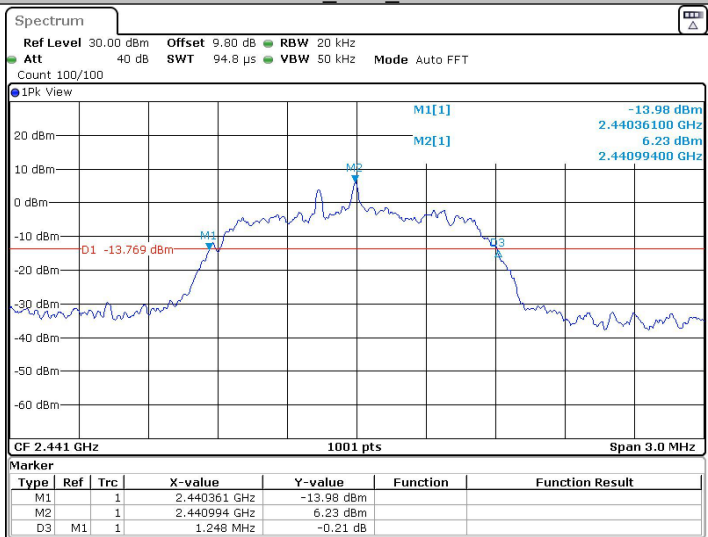
Date: 17 JAN 2022 08:16:02

3DH5_Ant1_2402



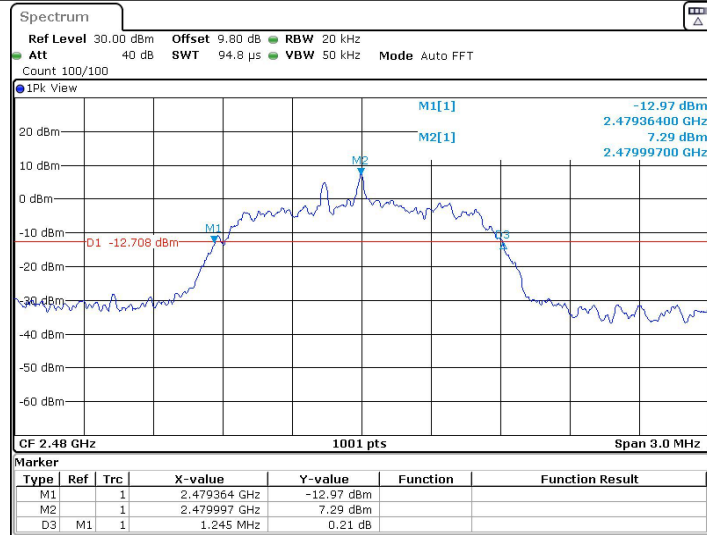
Date: 17 JAN 2022 08:19:11

3DH5_Ant1_2441



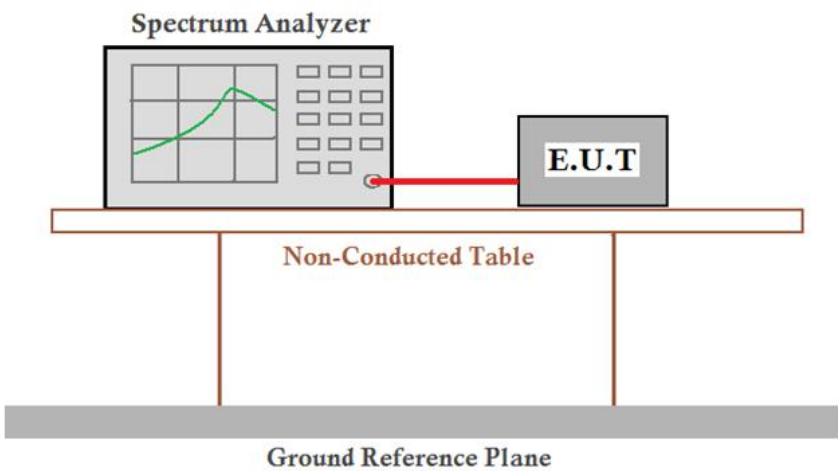
Date: 17 JAN 2022 08:21:58

3DH5_Ant1_2480



Date: 17 JAN 2022 08:24:51

5.5 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Limit:	2/3 of the 20dB bandwidth
	Remark: the transmission power is less than 0.125W.
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

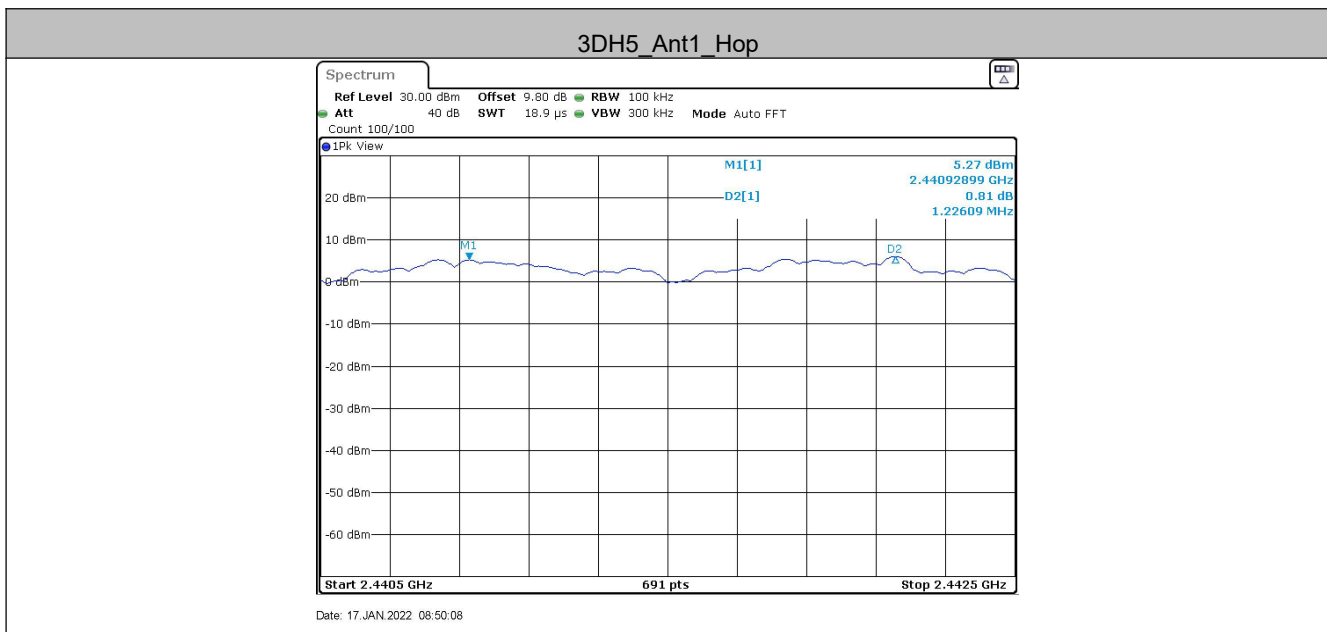
Measurement Data

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.788	≥0.534	PASS
2DH5	Ant1	Hop	1.307	≥1.218	PASS
3DH5	Ant1	Hop	1.226	≥0.832	PASS

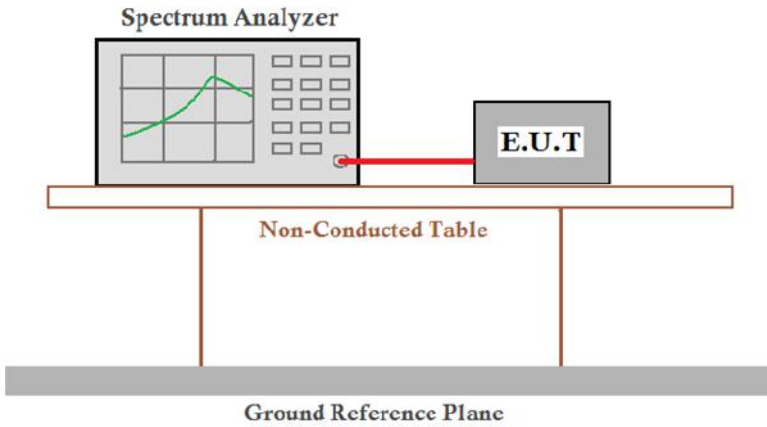
Mode	20dB bandwidth (MHz) (worse case)	Limit (MHz) (Carrier Frequencies Separation)
GFSK	0.801	0.534
$\pi/4$ DQPSK	1.218	1.218
8DPSK	1.248	0.832

Test plot as follows:





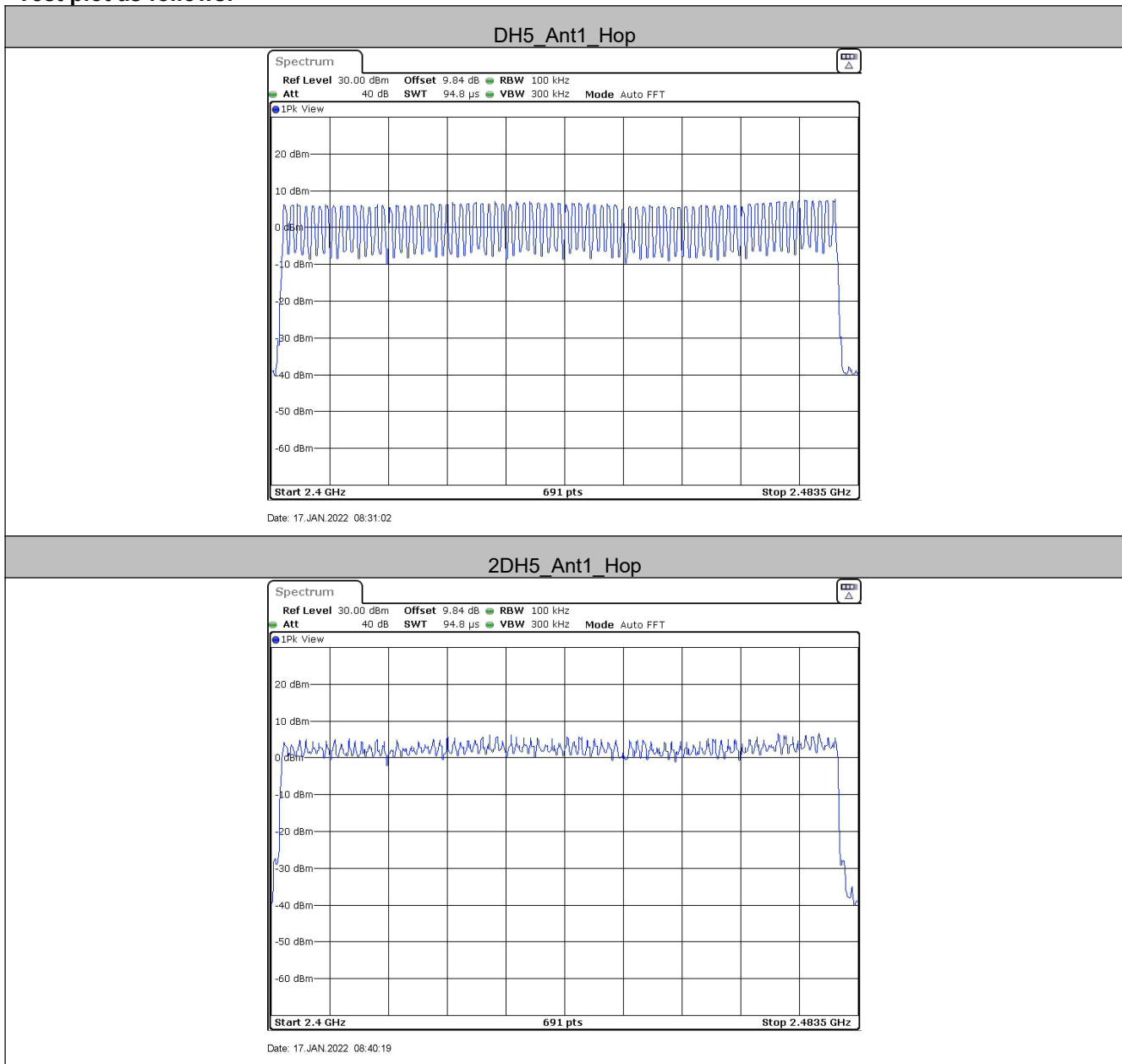
5.6 Hopping Channel Number

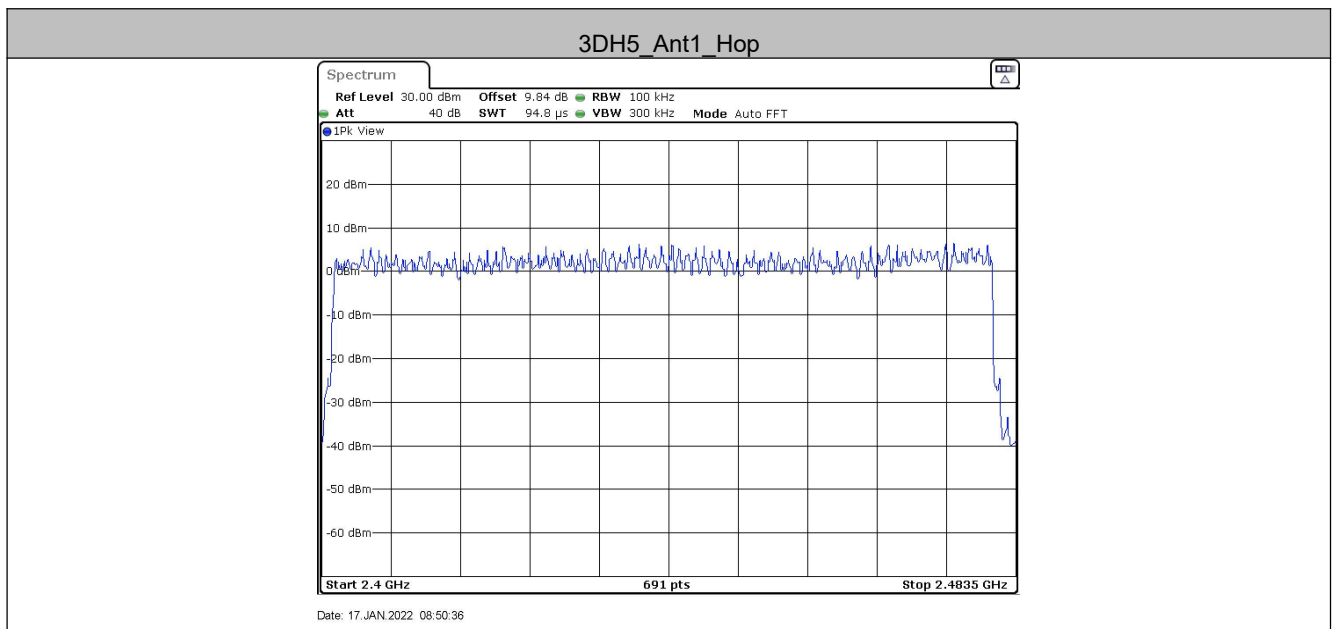
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Limit:	At least 15 channels
Exploratory Test Mode:	hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

Measurement Data

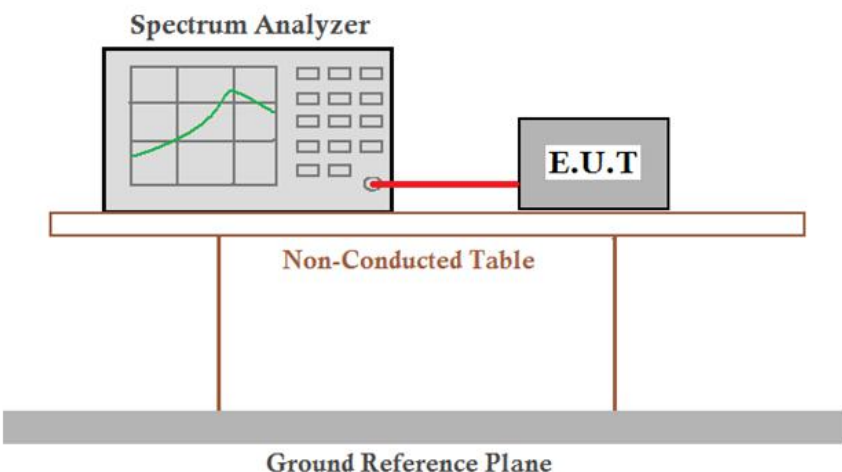
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
2DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS

Test plot as follows:





5.7 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass

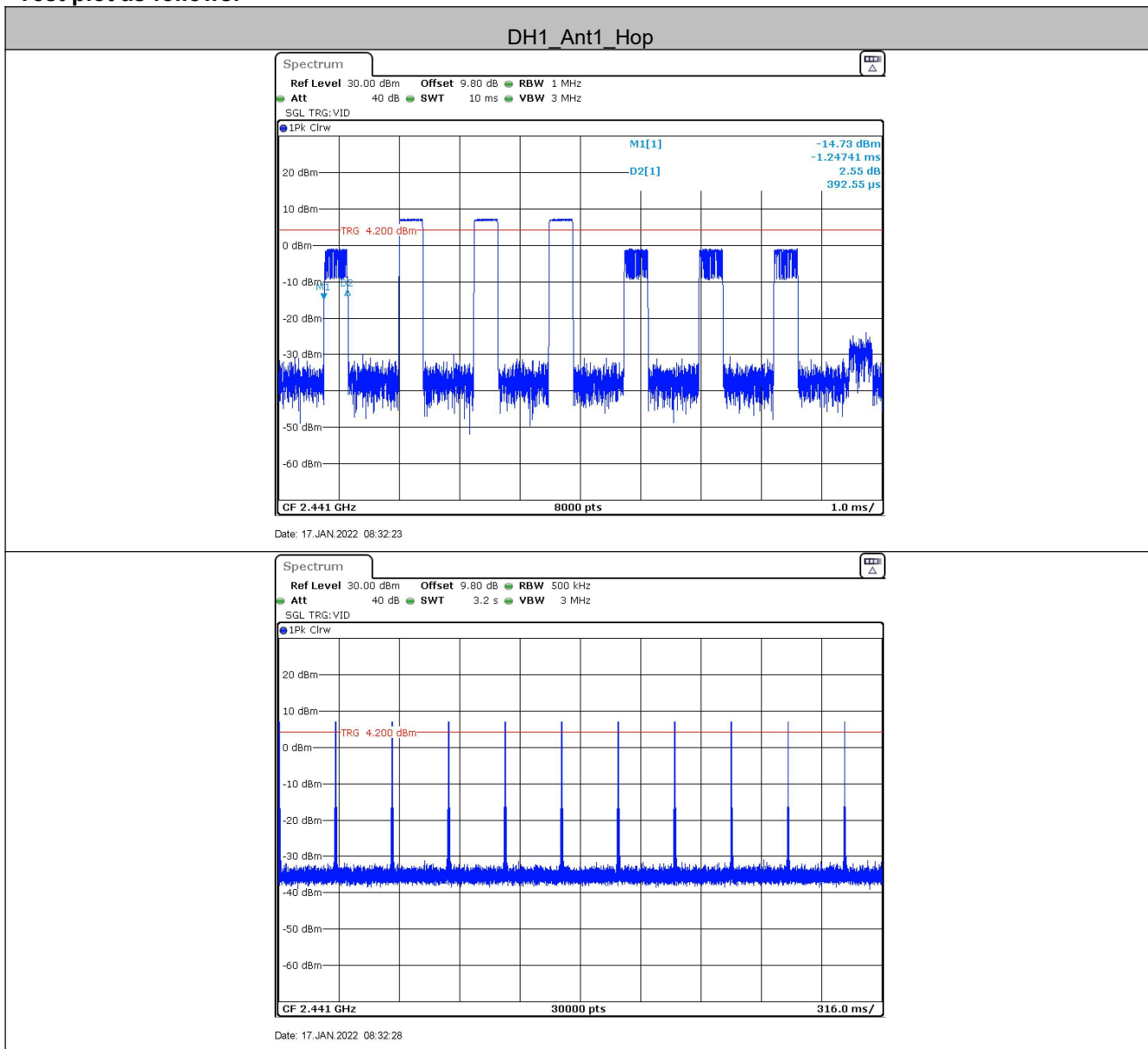
Measurement Data

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.39	330	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.65	160	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.89	110	0.318	≤0.4	PASS
2DH1	Ant1	Hop	0.40	330	0.132	≤0.4	PASS
2DH3	Ant1	Hop	1.65	170	0.281	≤0.4	PASS
2DH5	Ant1	Hop	2.89	110	0.318	≤0.4	PASS
3DH1	Ant1	Hop	0.40	330	0.132	≤0.4	PASS
3DH3	Ant1	Hop	1.65	170	0.281	≤0.4	PASS
3DH5	Ant1	Hop	2.89	110	0.318	≤0.4	PASS

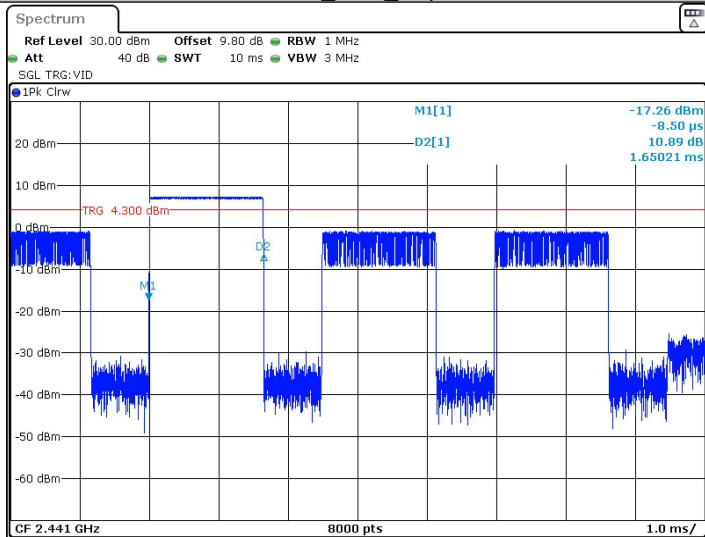
Remark:

The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

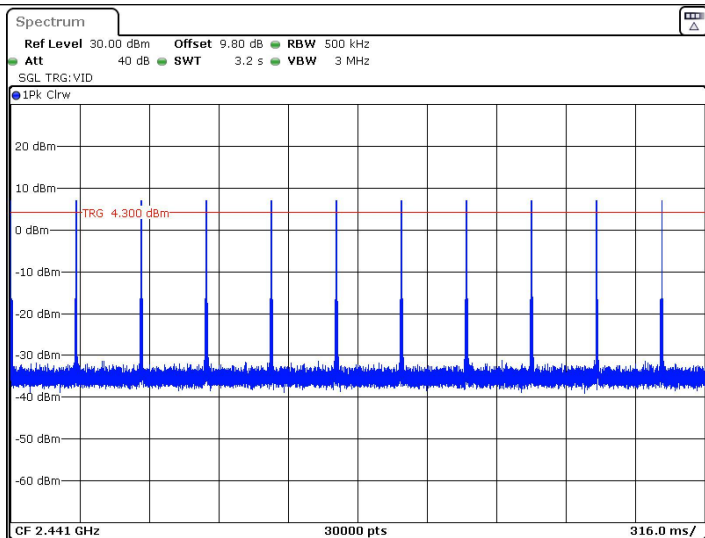
Test plot as follows:



DH3_Ant1_Hop

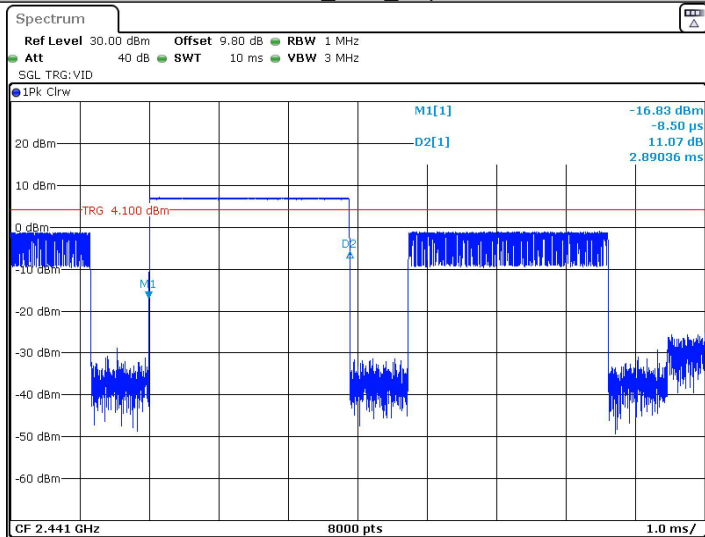


Date: 17. JAN 2022 08:34:26

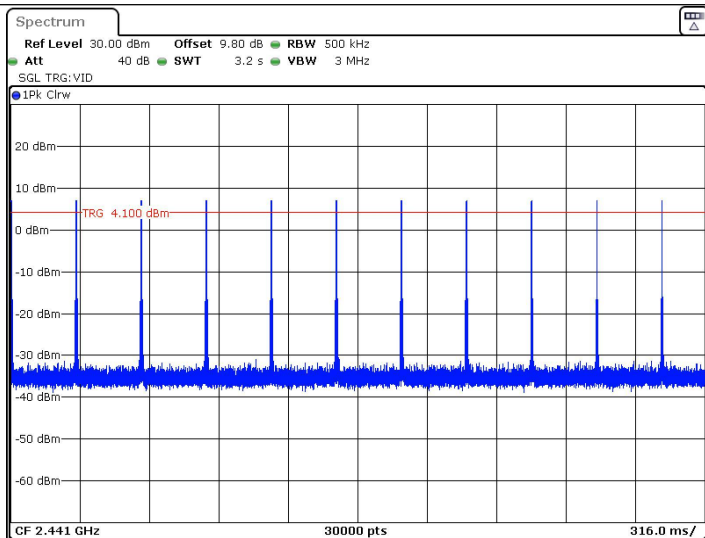


Date: 17. JAN 2022 08:34:32

DH5_Ant1_Hop

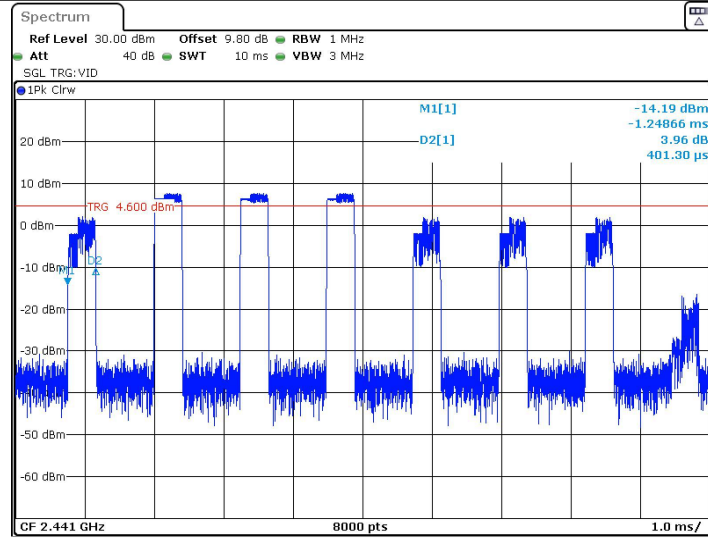


Date: 17 JAN 2022 08:31:14

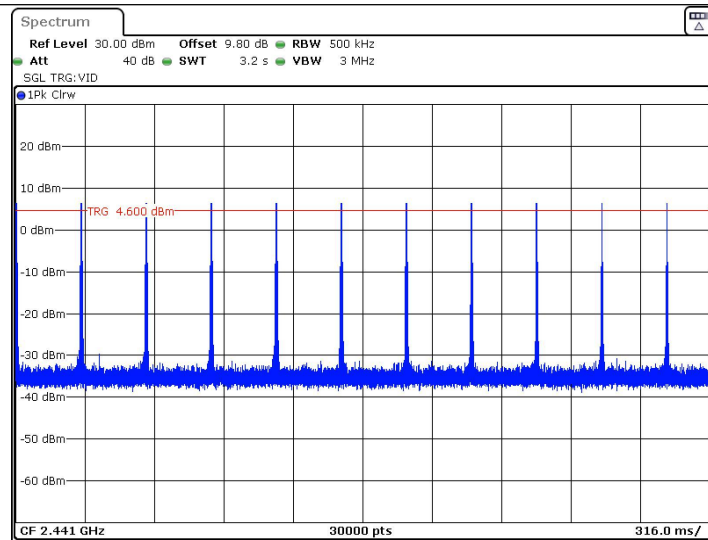


Date: 17 JAN 2022 08:31:20

2DH1_Ant1_Hop

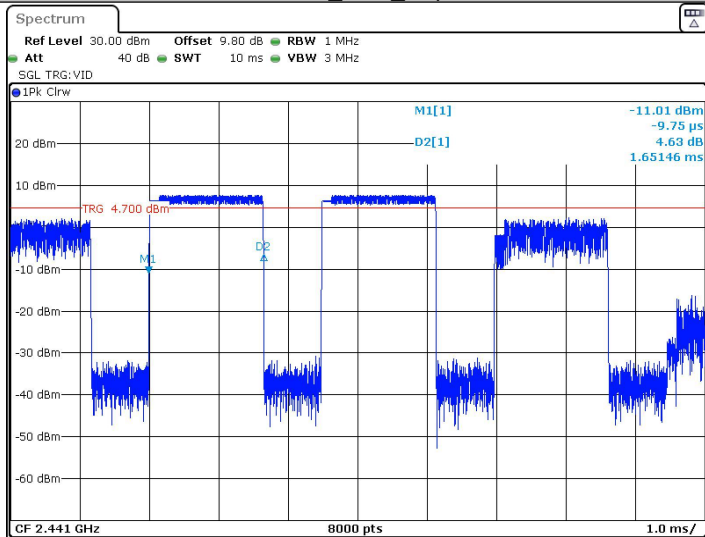


Date: 17. JAN 2022 08:42:01

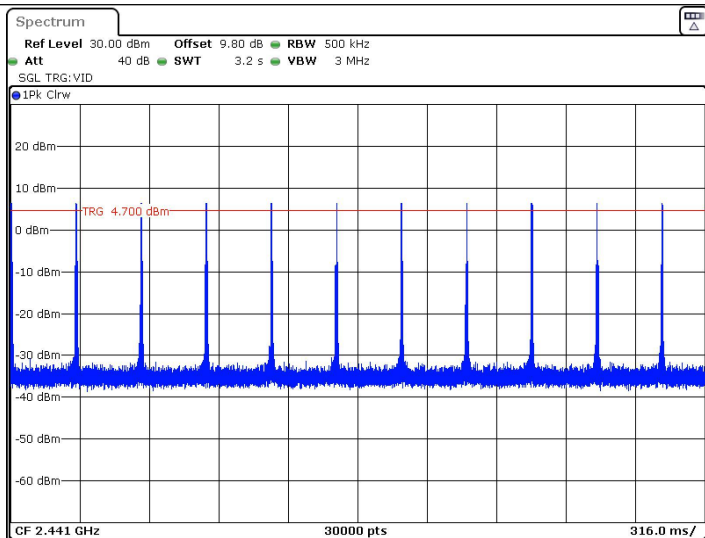


Date: 17. JAN 2022 08:42:07

2DH3_Ant1_Hop

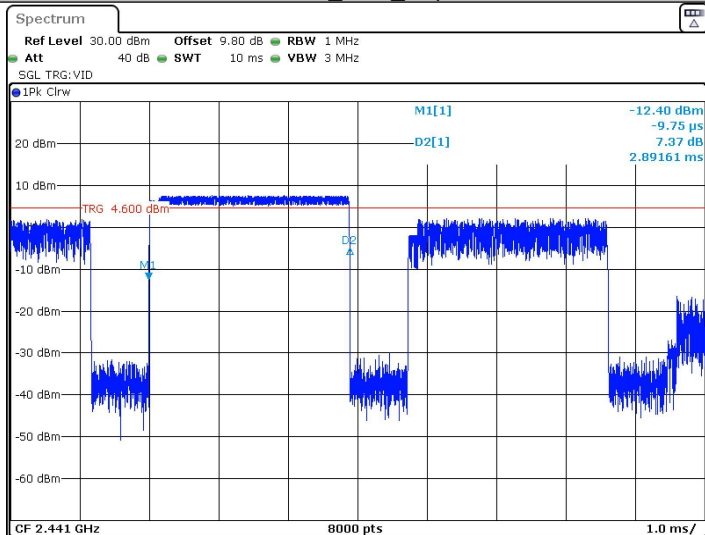


Date: 17. JAN 2022 08:43:21

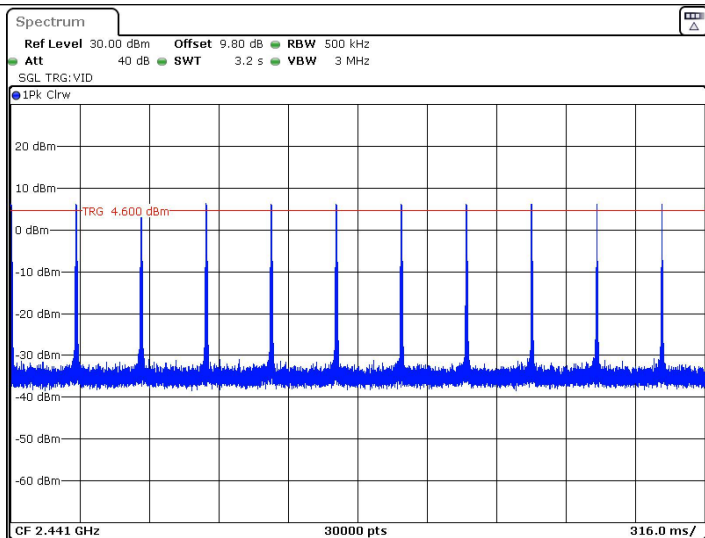


Date: 17. JAN 2022 08:43:27

2DH5_Ant1_Hop



Date: 17. JAN 2022 08:40:32



Date: 17. JAN 2022 08:40:37