

Appendix Test Data for BT(BDR/EDR) (Conducted Measurement)**Product Name: smart phone****Trade Mark: YEZZ****Test Model: MAX 3 PLUS****FCC ID: 2APW4MAX3P****Environmental Conditions**

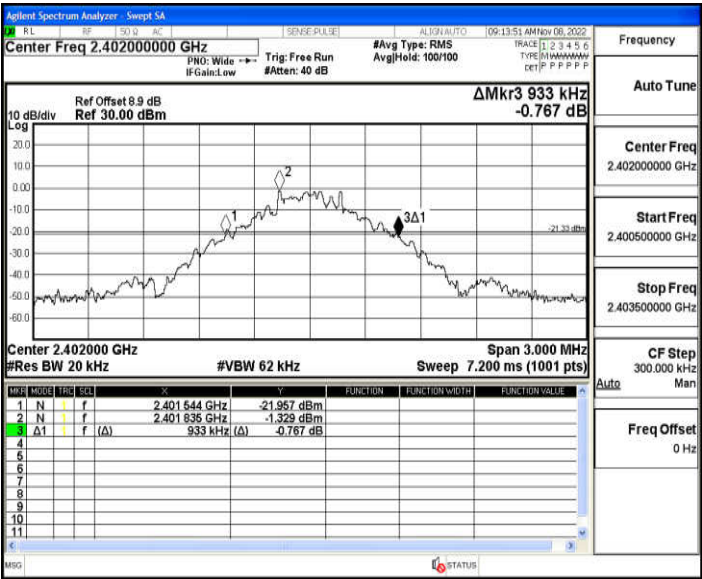
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A: 20dB Emission Bandwidth**Test Result**

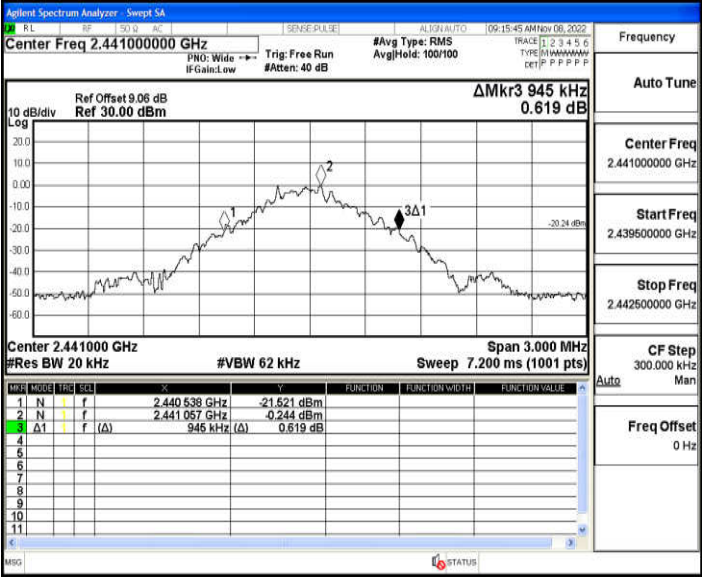
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.933	2401.544	2402.477	---	---
		2441	0.945	2440.538	2441.483	---	---
		2480	0.945	2479.535	2480.480	---	---
2DH5	Ant1	2402	1.326	2401.334	2402.660	---	---
		2441	1.338	2440.328	2441.666	---	---
		2480	1.284	2479.370	2480.654	---	---
3DH5	Ant1	2402	1.278	2401.349	2402.627	---	---
		2441	1.314	2440.340	2441.654	---	---
		2480	1.272	2479.349	2480.621	---	---

Test Graphs

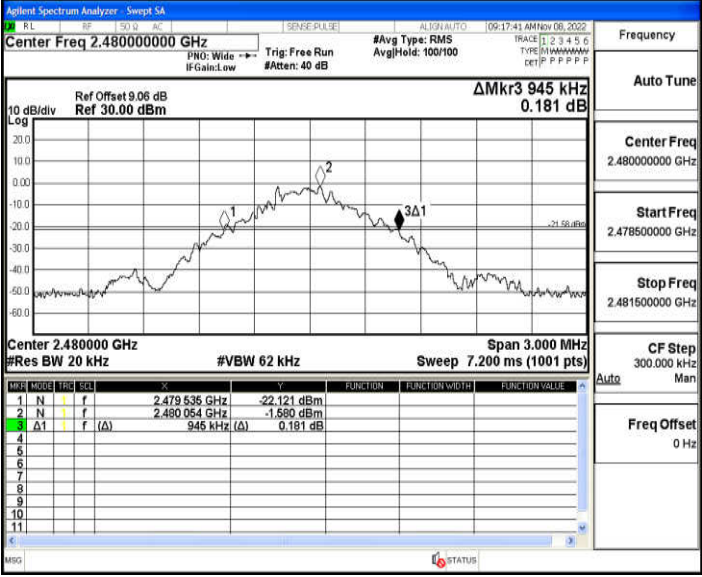
DH5_Ant1_2402



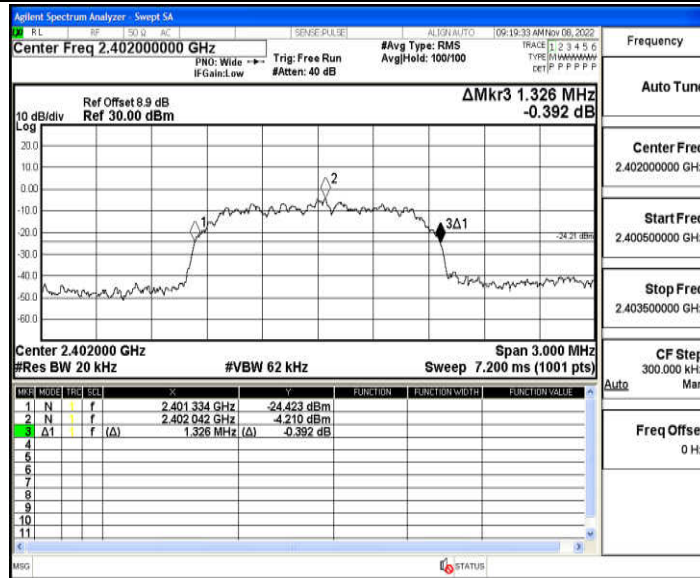
DH5_Ant1_2441



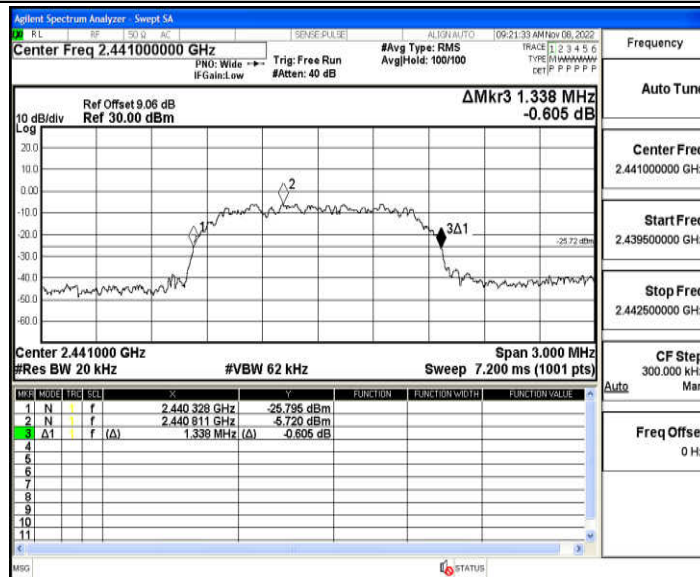
DH5_Ant1_2480



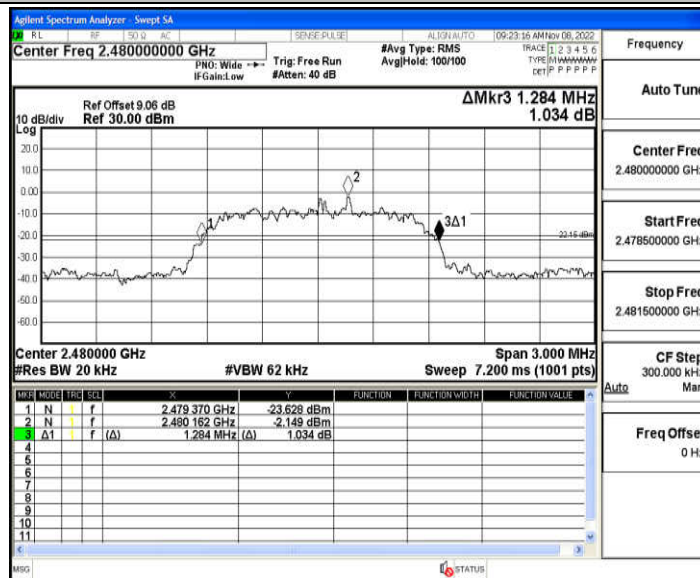
2DH5_Ant1_2402



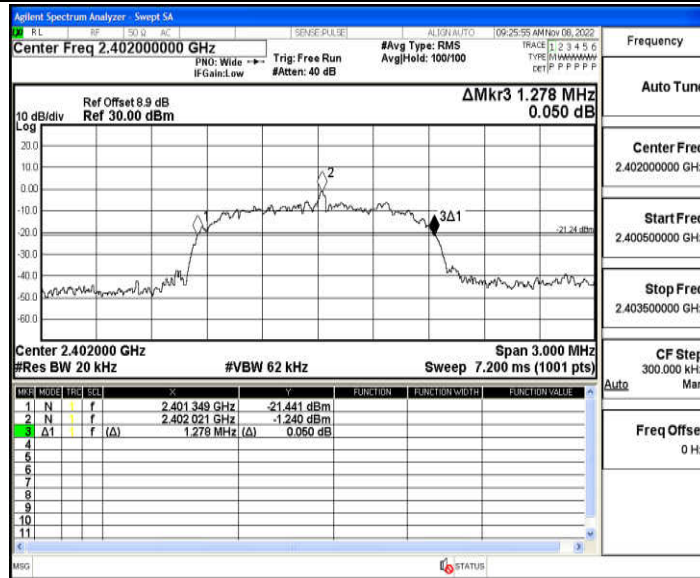
2DH5_Ant1_2441



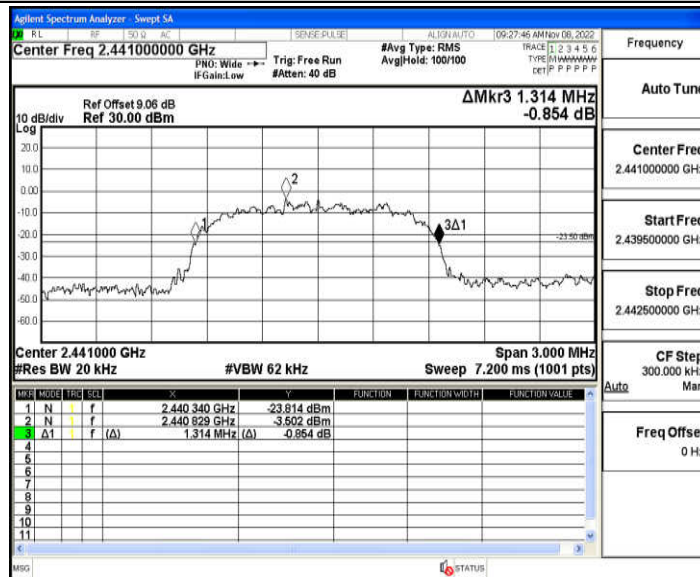
2DH5_Ant1_2480



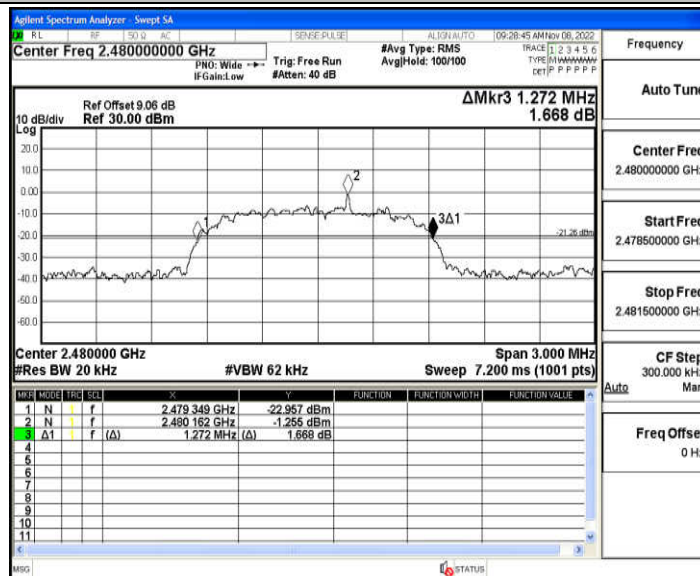
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

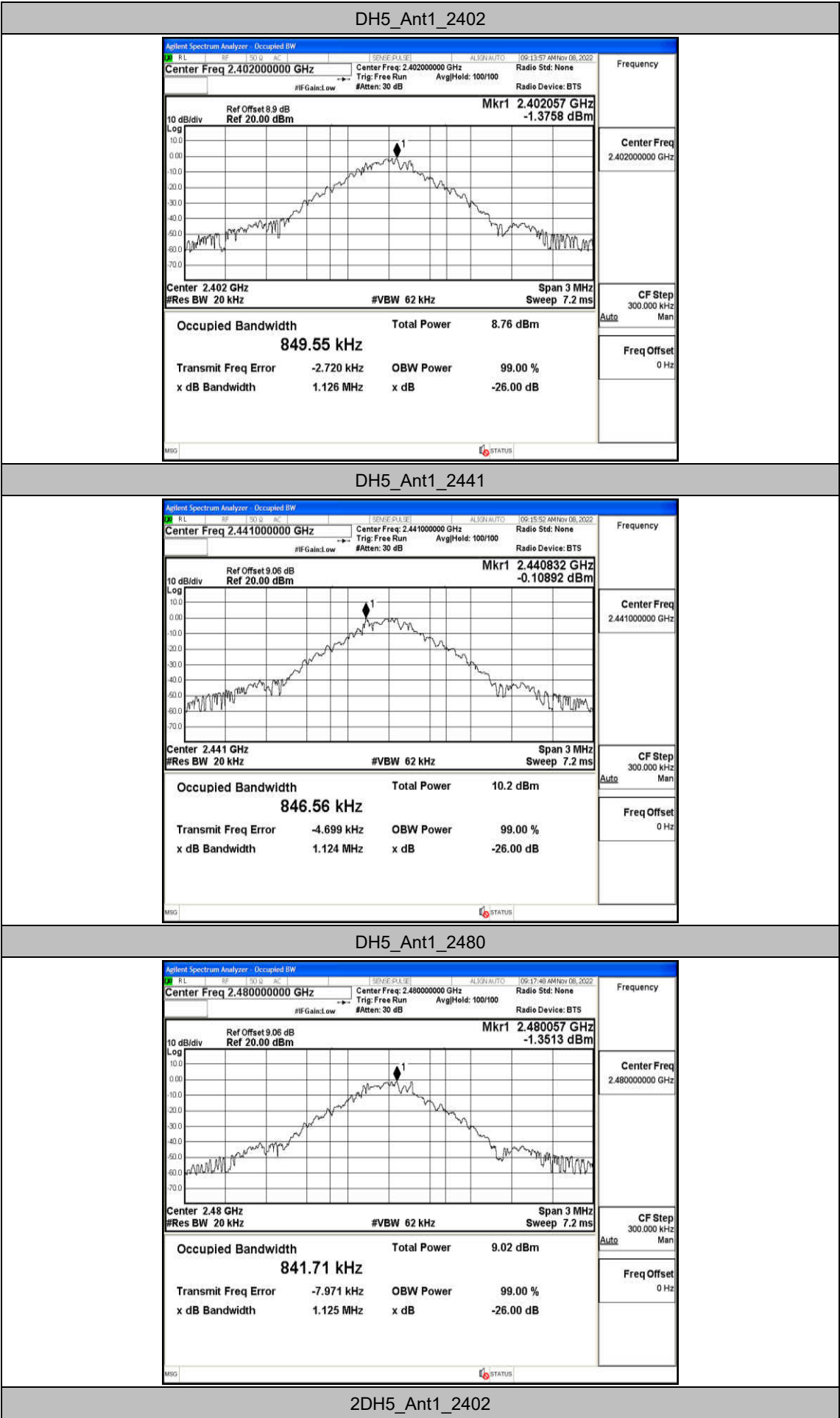


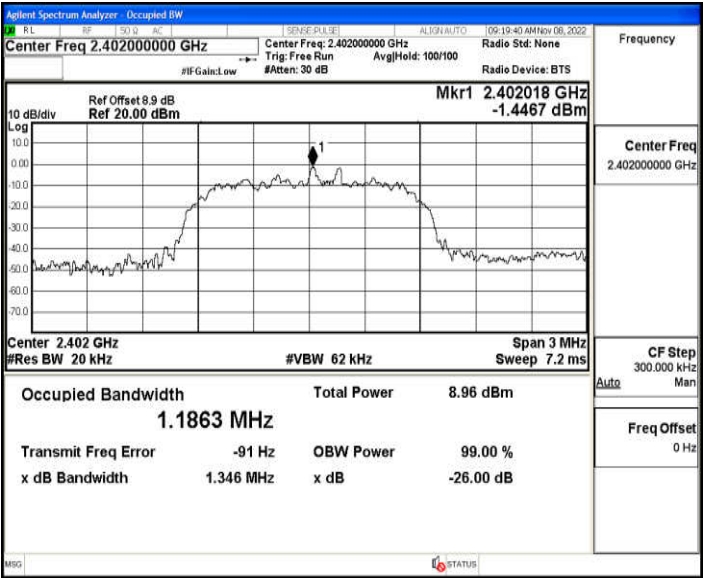
Appendix B: Occupied Channel Bandwidth

Test Result

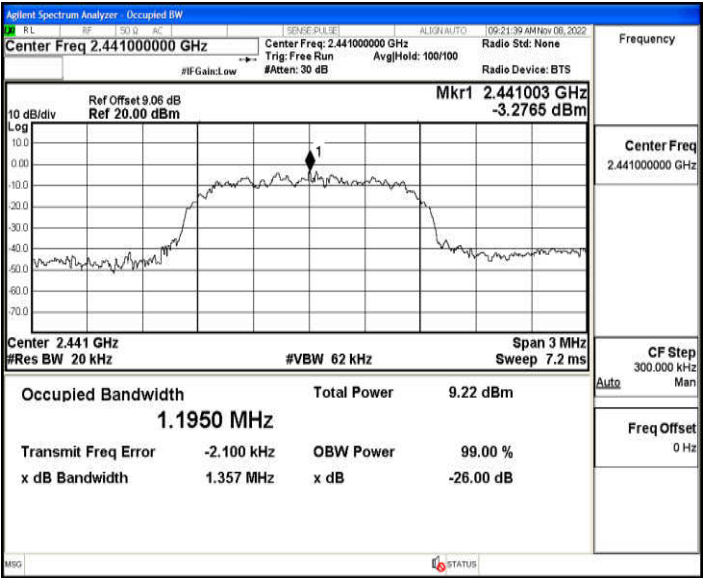
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84955	2401.5725	2402.4221	---	---
		2441	0.84656	2440.5720	2441.4186	---	---
		2480	0.84171	2479.5712	2480.4129	---	---
2DH5	Ant1	2402	1.1863	2401.4068	2402.5931	---	---
		2441	1.1950	2440.4004	2441.5954	---	---
		2480	1.1998	2479.3982	2480.5980	---	---
3DH5	Ant1	2402	1.1985	2401.3928	2402.5913	---	---
		2441	1.1924	2440.3951	2441.5875	---	---
		2480	1.2095	2479.3832	2480.5927	---	---

Test Graphs

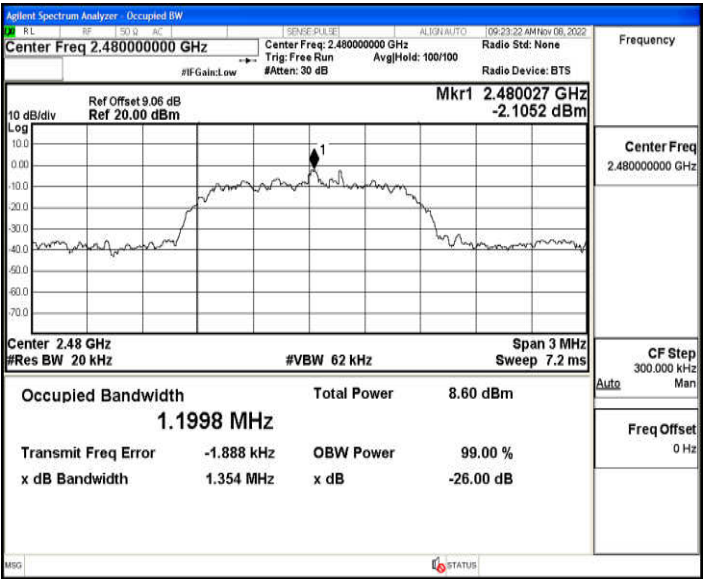




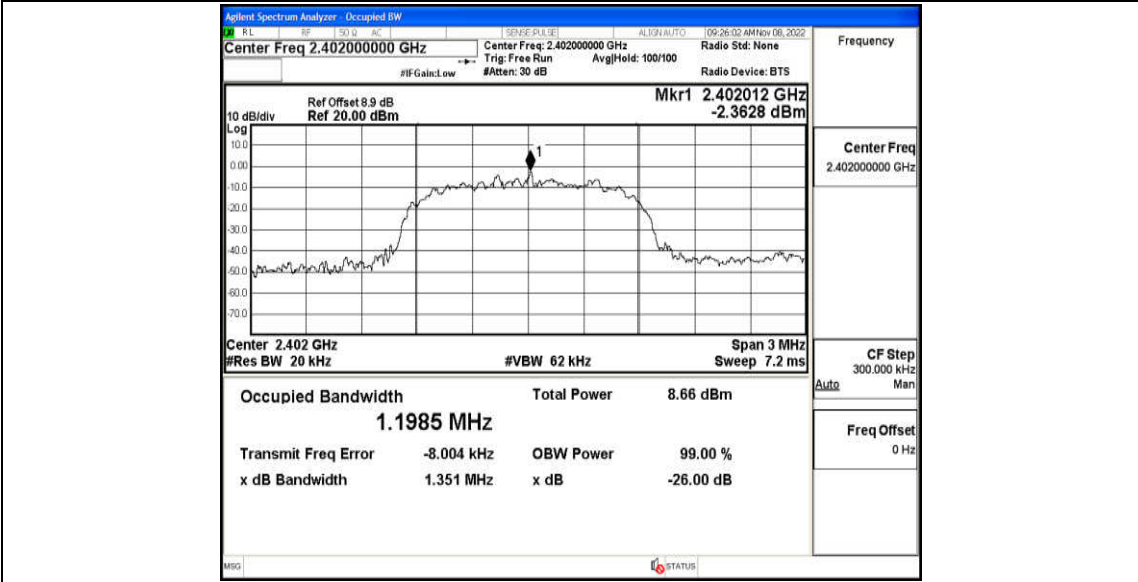
2DH5_Ant1_2441



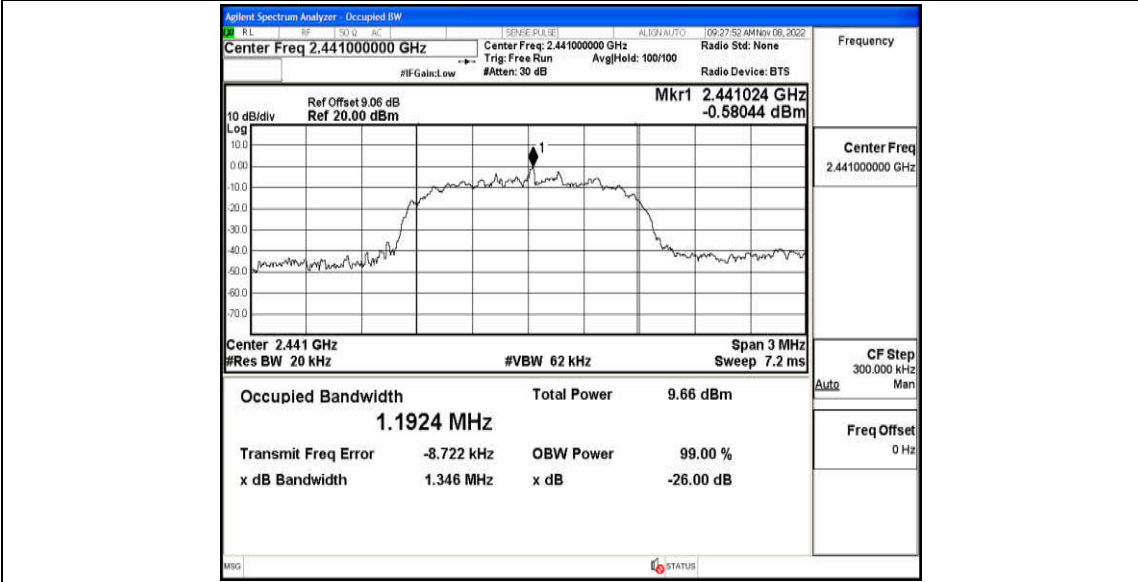
2DH5_Ant1_2480



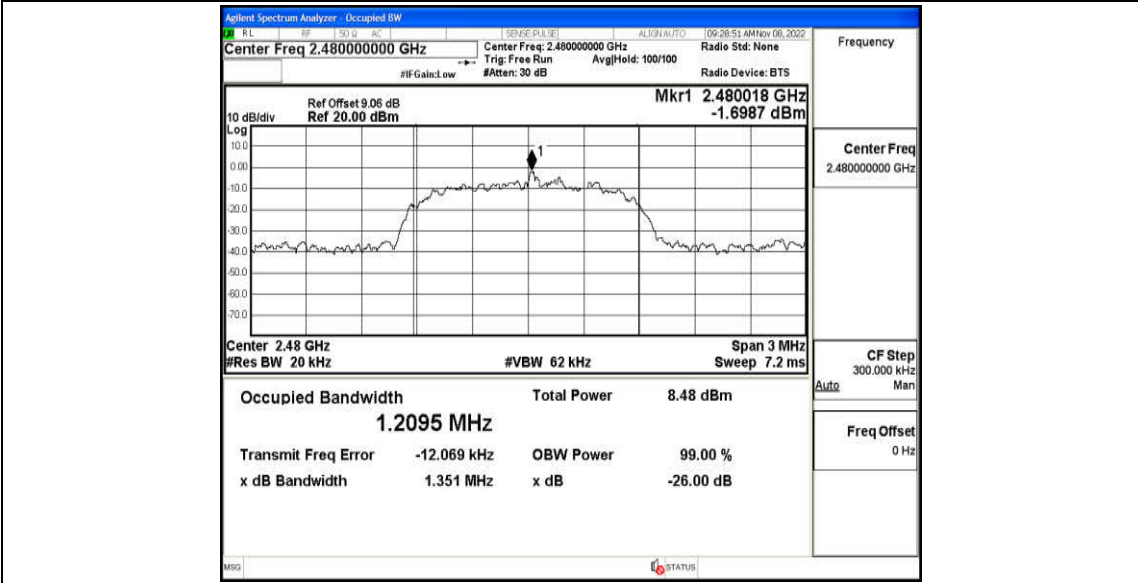
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

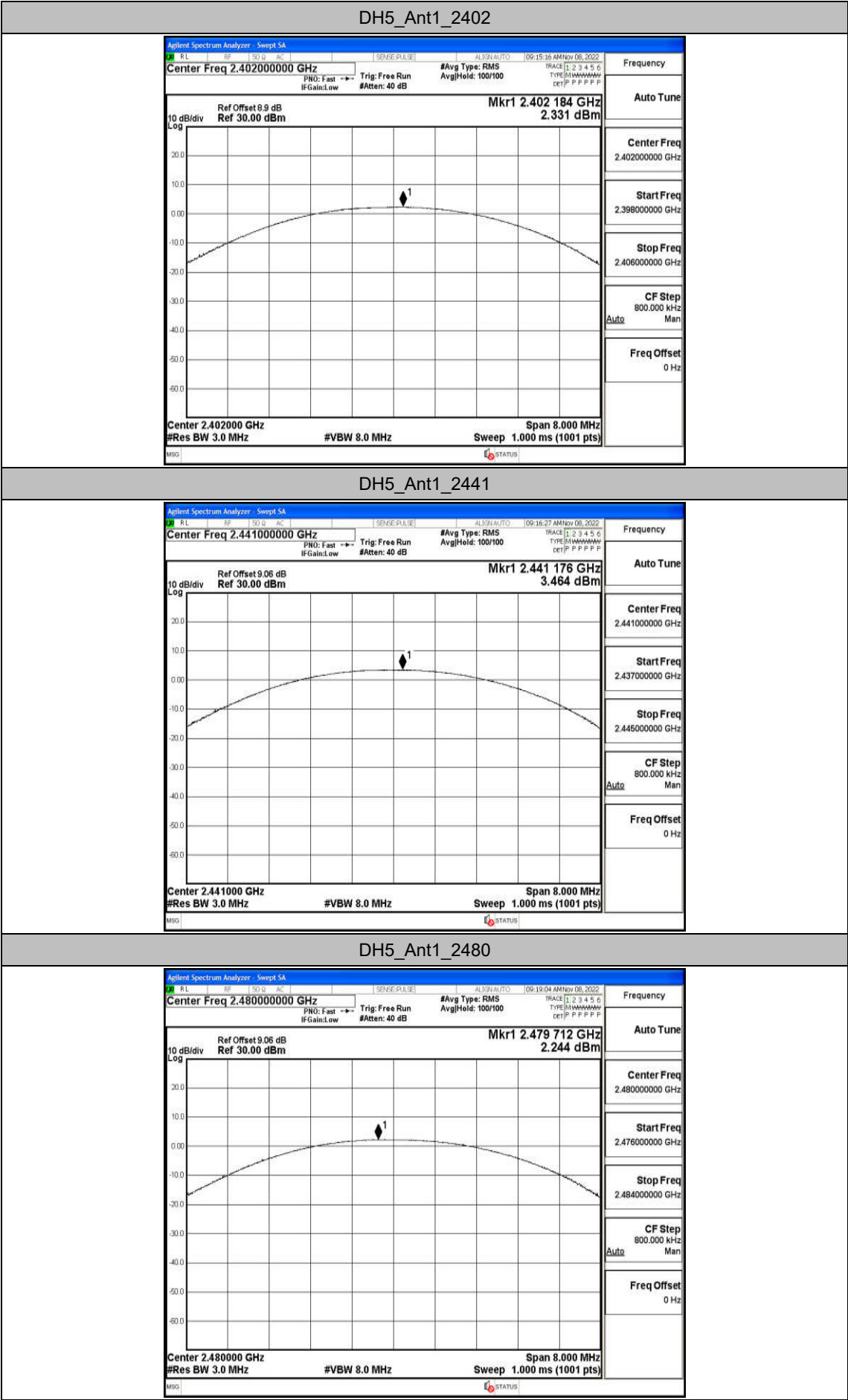


Appendix C: Maximum Peak conducted output power

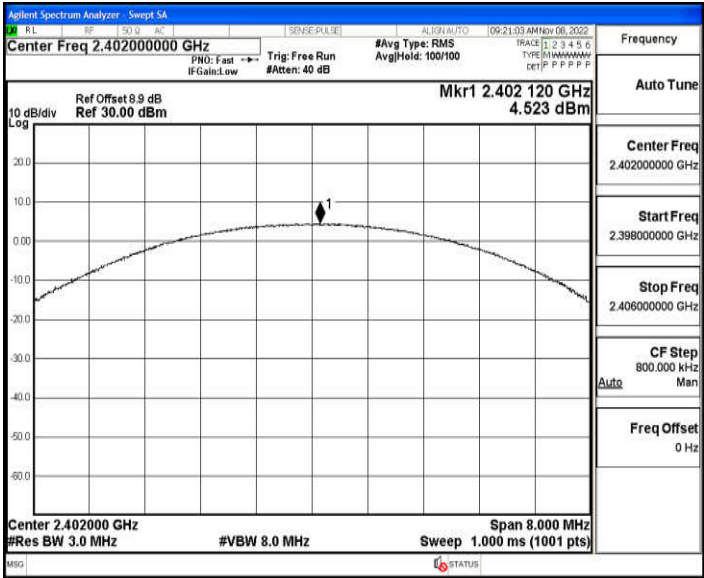
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.33	≤30.0	PASS
		2441	3.46	≤30.0	PASS
		2480	2.24	≤30.0	PASS
2DH5	Ant1	2402	4.52	≤20.97	PASS
		2441	5.31	≤20.97	PASS
		2480	3.85	≤20.97	PASS
3DH5	Ant1	2402	4.81	≤20.97	PASS
		2441	5.68	≤20.97	PASS
		2480	4.09	≤20.97	PASS

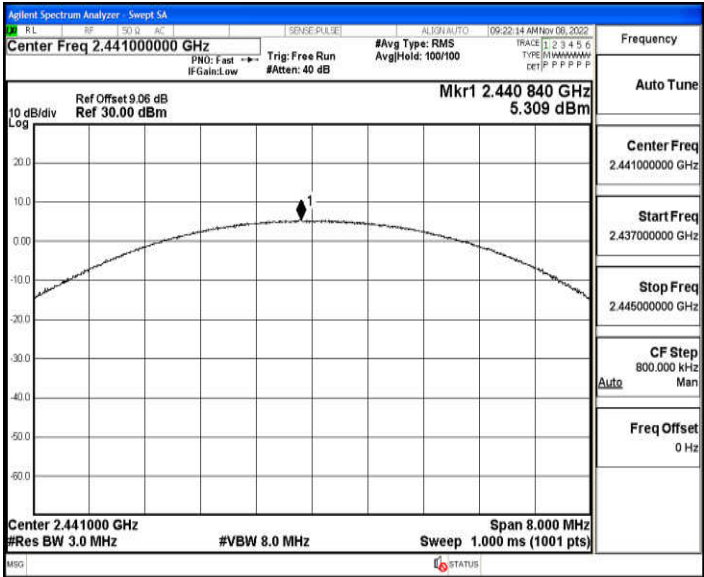
Test Graphs



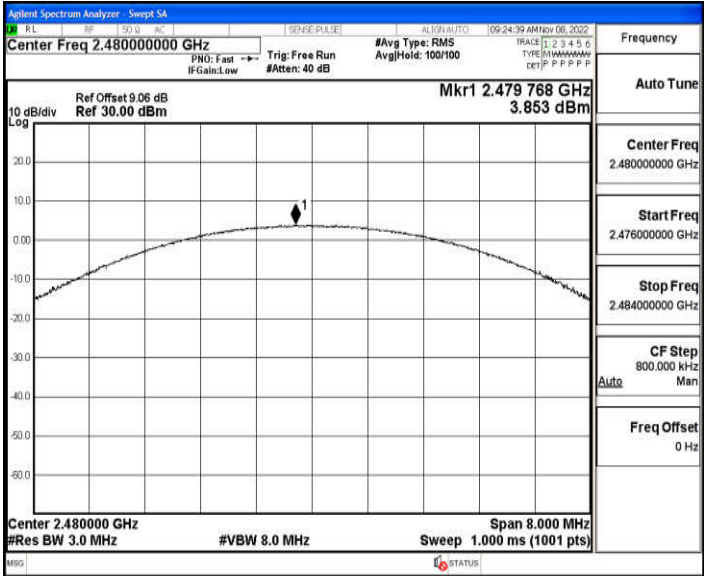
2DH5_Ant1_2402



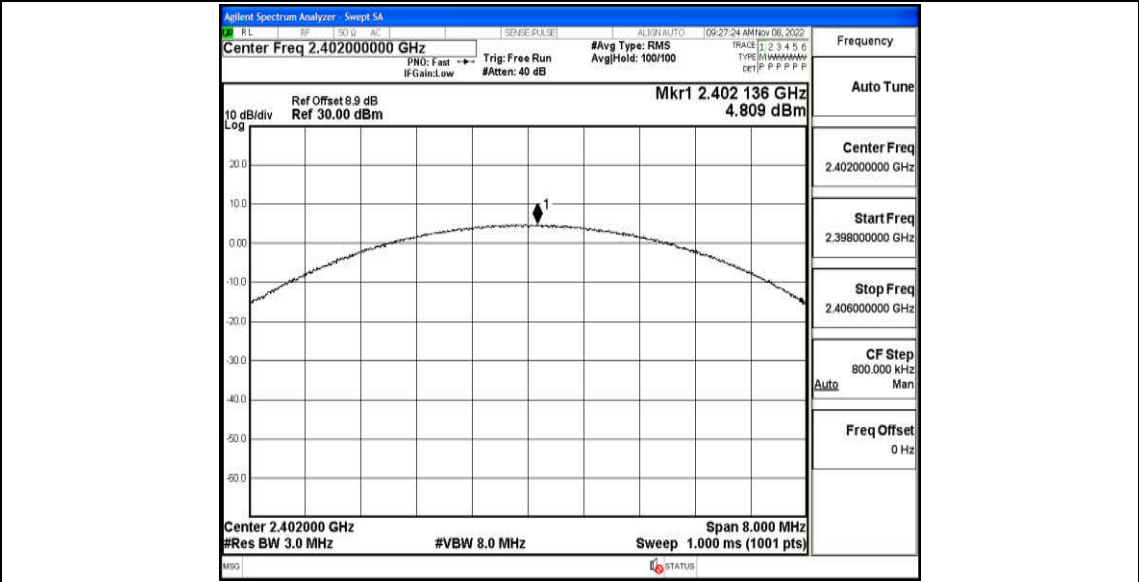
2DH5_Ant1_2441



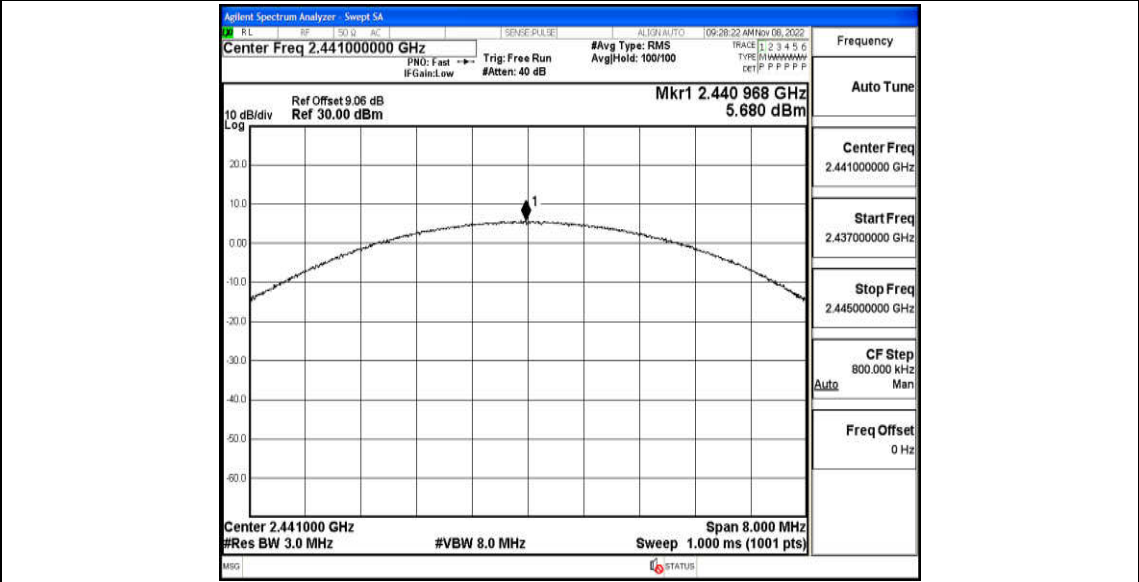
2DH5_Ant1_2480



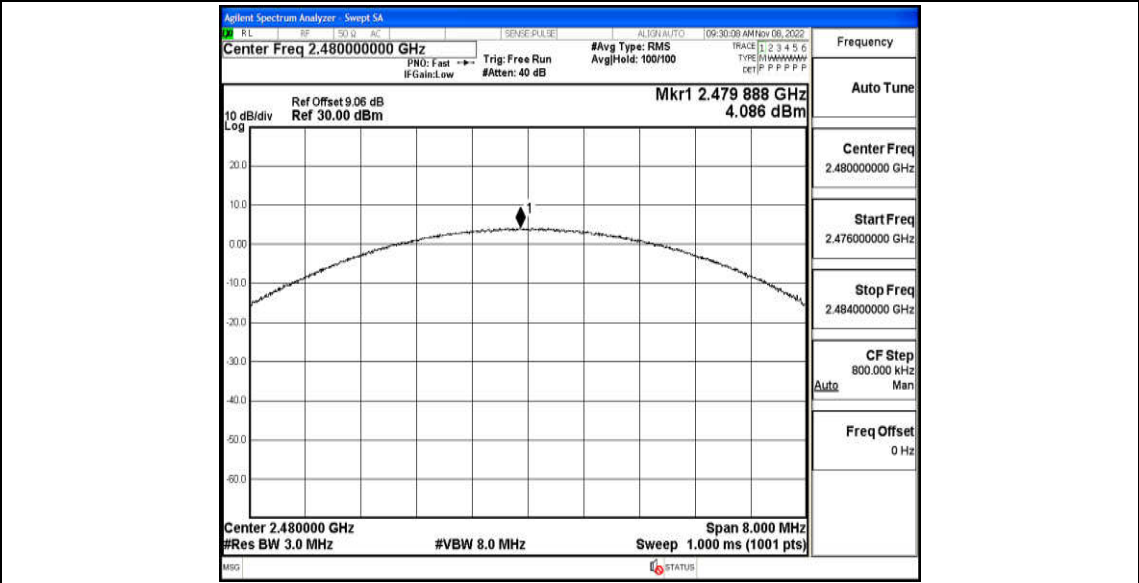
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

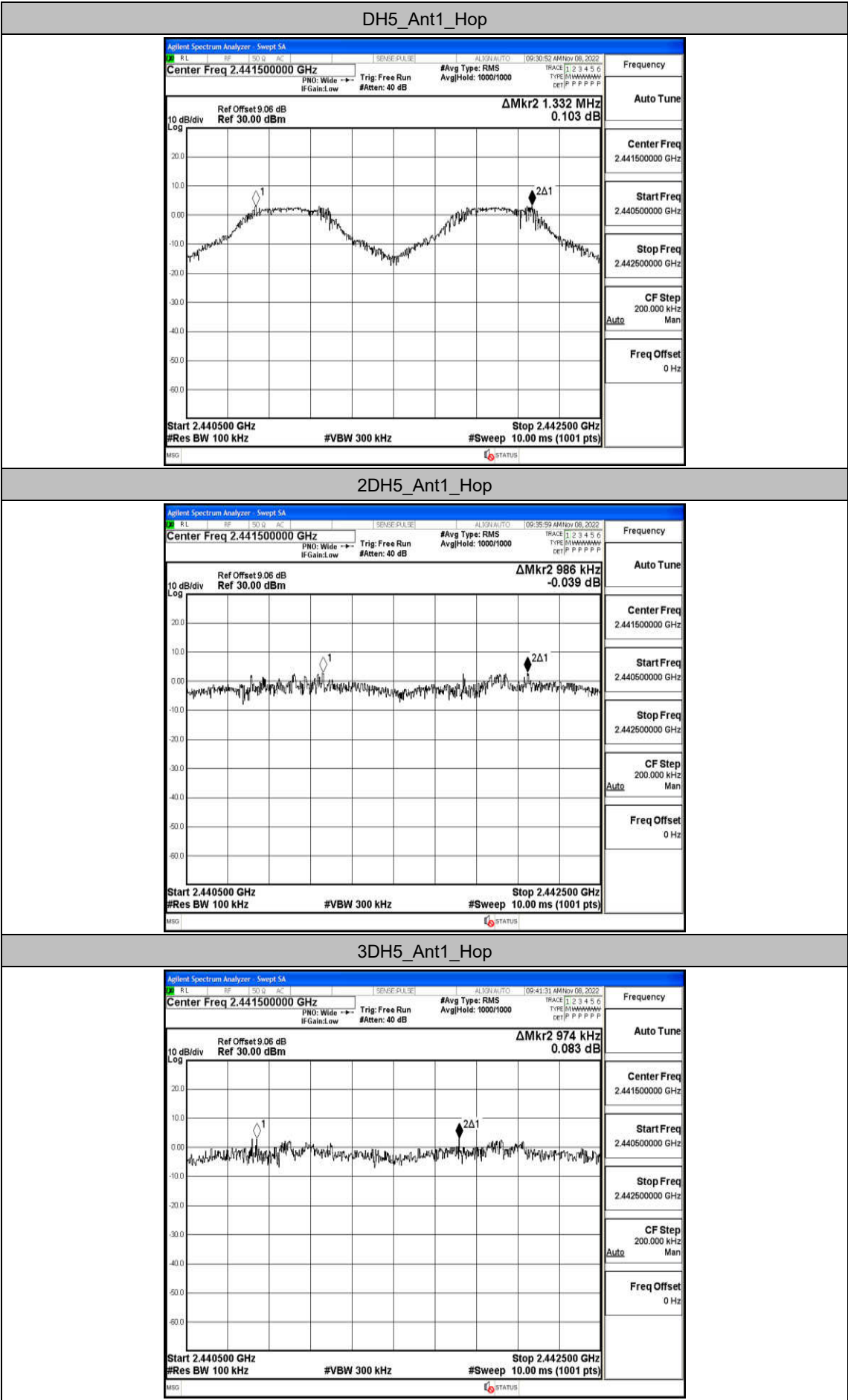


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.332	≥ 0.945	PASS
2DH5	Ant1	Hop	0.986	≥ 0.892	PASS
3DH5	Ant1	Hop	0.974	≥ 0.876	PASS

Test Graphs

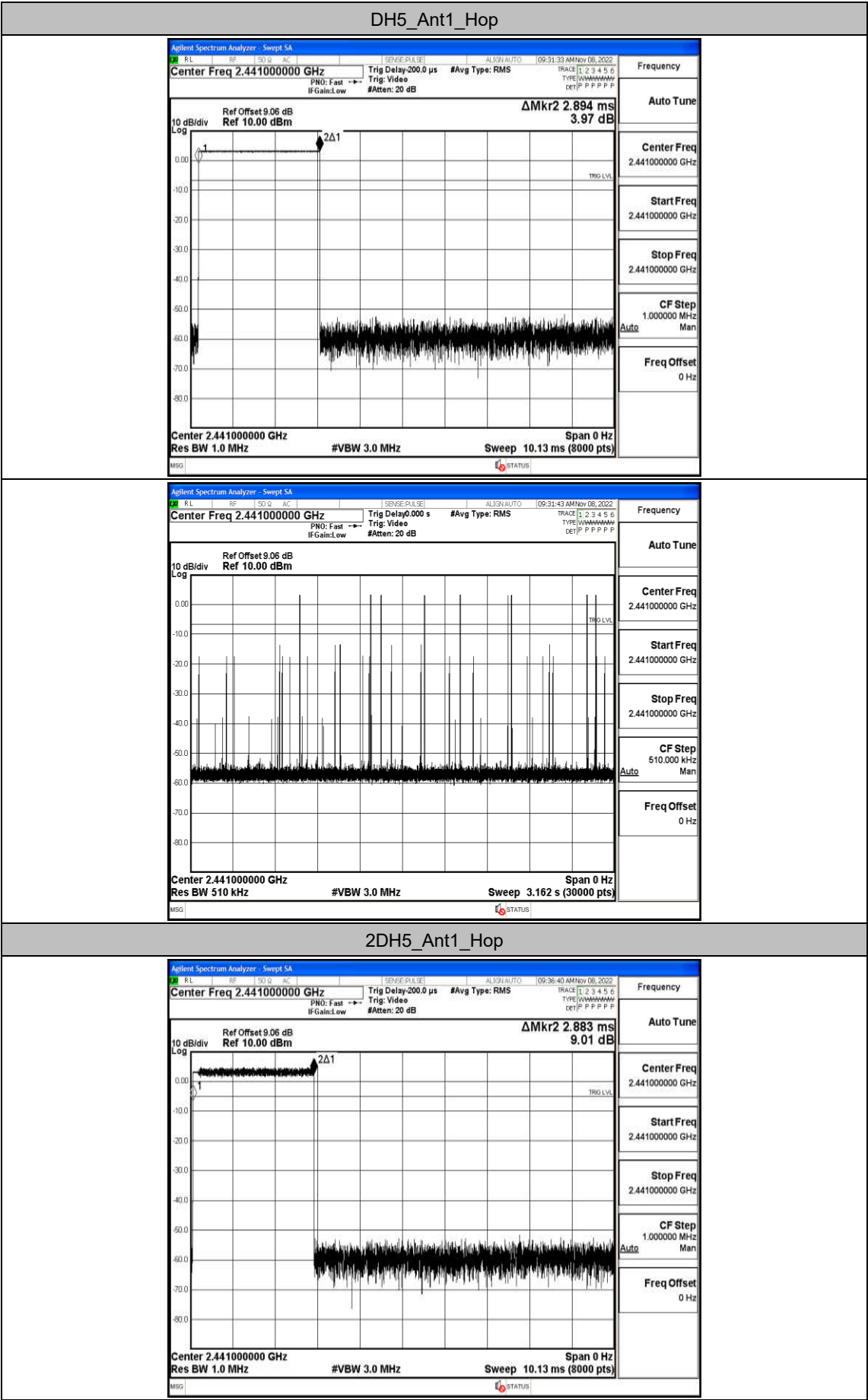


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.894	100	0.289	≤0.4	PASS
2DH5	Ant1	Hop	2.883	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	1.970	150	0.296	≤0.4	PASS

Test Graphs



2DH5_Ant1_Hop

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 9.06 dB
Ref 10.00 dBm

10 dB/div
Log

1

2Δ1

Center 2.441000000 GHz
Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 10.13 ms (8000 pts)

ΔMkr2 2.883 ms
9.01 dB

Trig Delay 200.0 μs
Trig: Video
#Atten: 20 dB

#Avg Type: RMS

09:36:40 AM Nov 08, 2022

TRACE 1 2 3 4 5 6
TYPE [A W M M M M M M]
DET [P P P P P P P P]

Frequency

Auto Tune

Center Freq
2.441000000 GHz

Start Freq
2.441000000 GHz

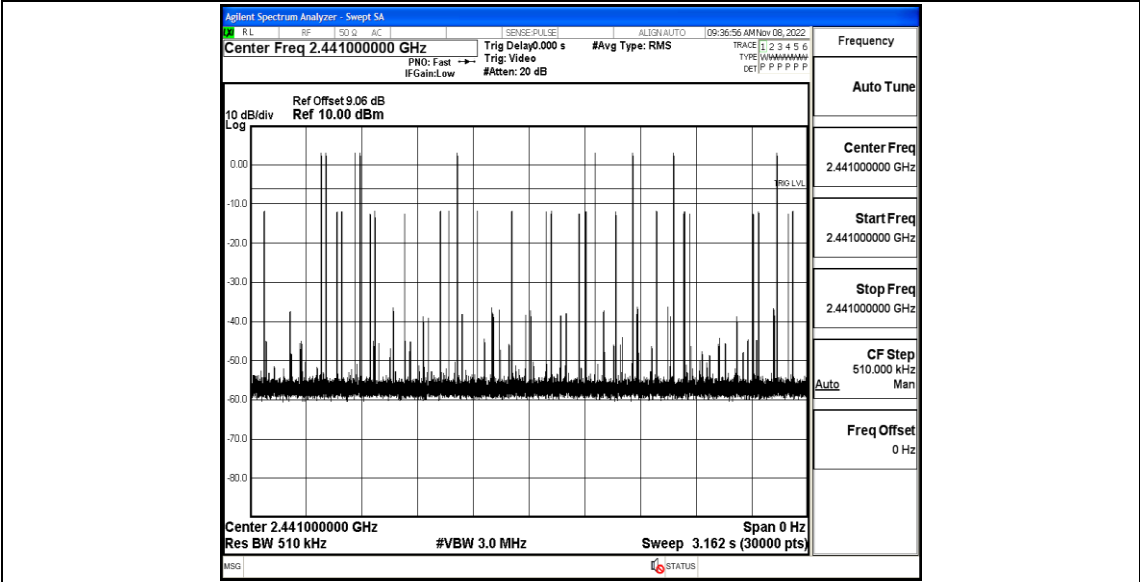
Stop Freq
2.441000000 GHz

CF Step
1.000000 MHz
Man

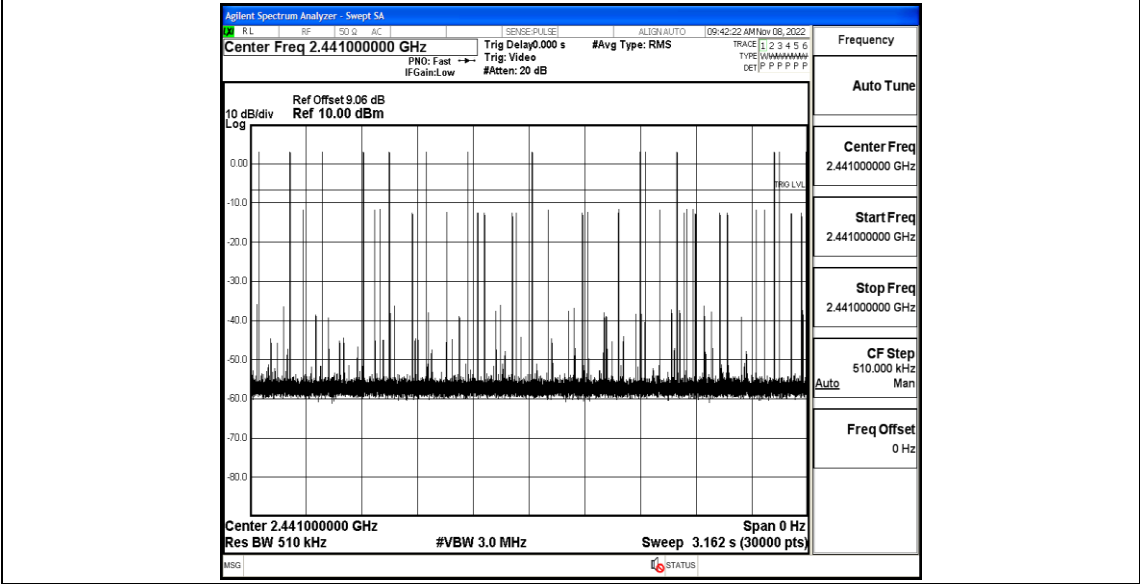
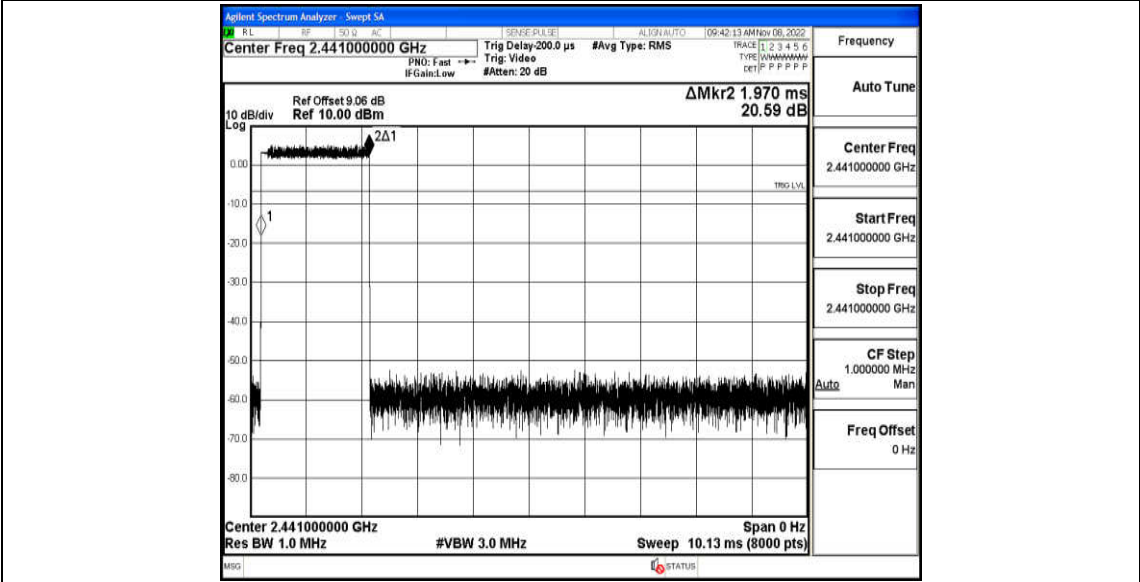
Freq Offset
0 Hz

MSG

STATUS



3DH5_Ant1_Hop

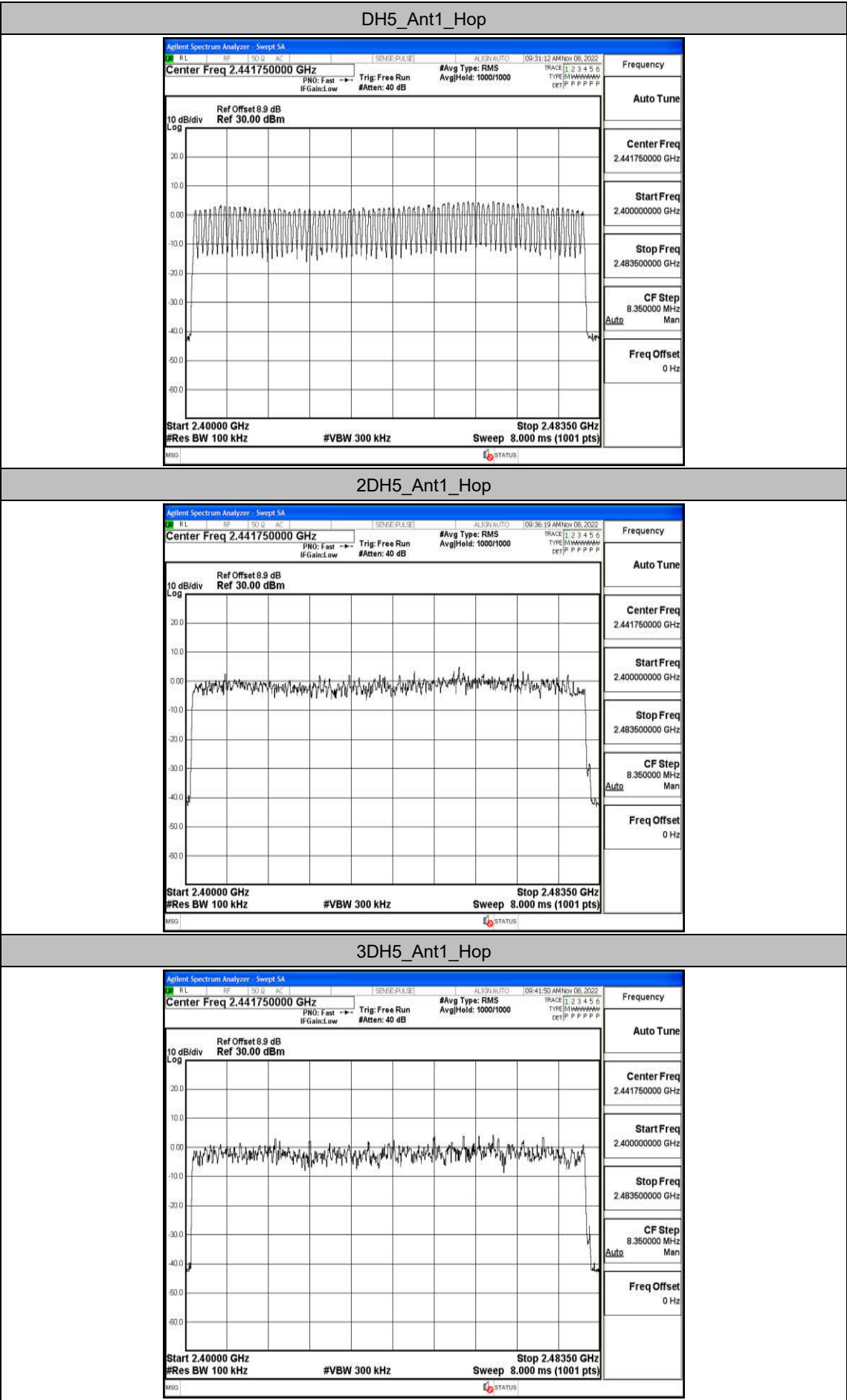


Appendix F: Number of hopping channels

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

Test Graphs



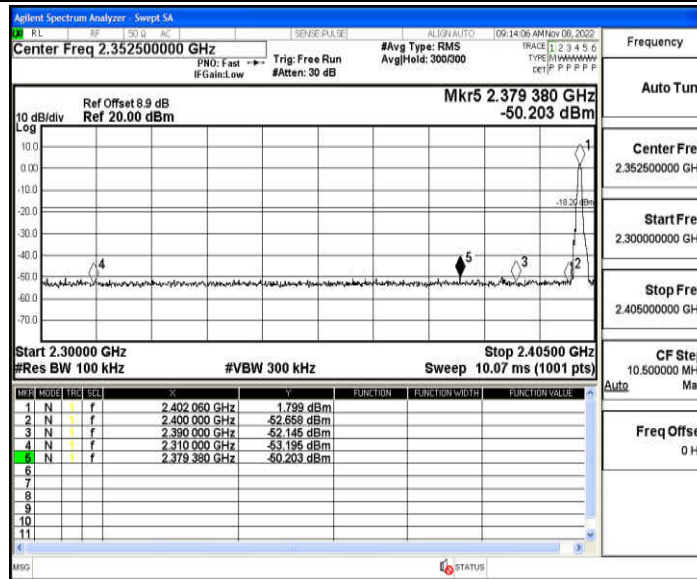
Appendix G: Band edge measurements

Test Result

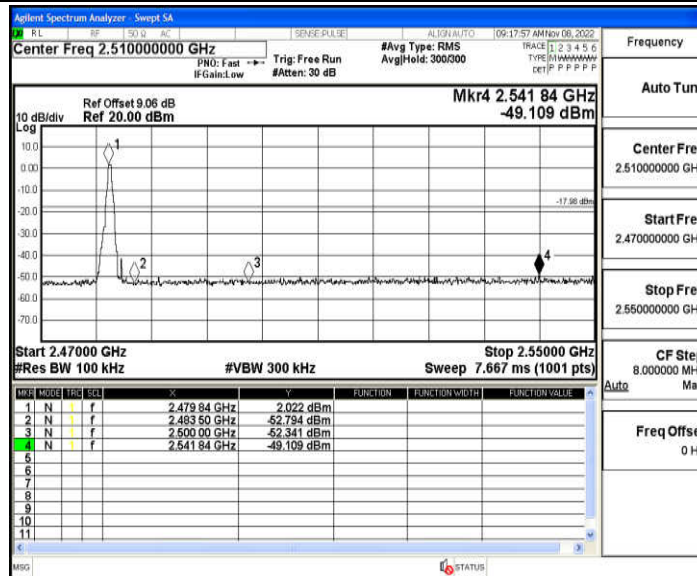
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.80	-50.2	≤-18.2	PASS
		High	2480	2.02	-49.11	≤-17.98	PASS
		Low	Hop_2402	1.99	-50.47	≤-18.01	PASS
		High	Hop_2480	3.35	-49.44	≤-16.65	PASS
2DH5	Ant1	Low	2402	2.16	-45.96	≤-17.84	PASS
		High	2480	1.13	-48.2	≤-18.87	PASS
		Low	Hop_2402	-2.34	-50.27	≤-22.34	PASS
		High	Hop_2480	2.84	-49.65	≤-17.16	PASS
3DH5	Ant1	Low	2402	2.42	-46.85	≤-17.58	PASS
		High	2480	1.55	-48.61	≤-18.45	PASS
		Low	Hop_2402	-0.87	-50.93	≤-20.87	PASS
		High	Hop_2480	-0.21	-49.39	≤-20.21	PASS

Test Graphs

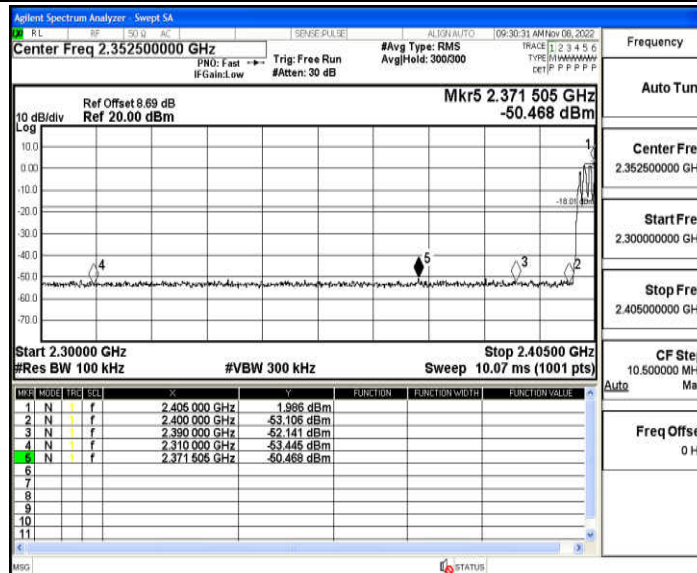
DH5_Ant1_Low_2402



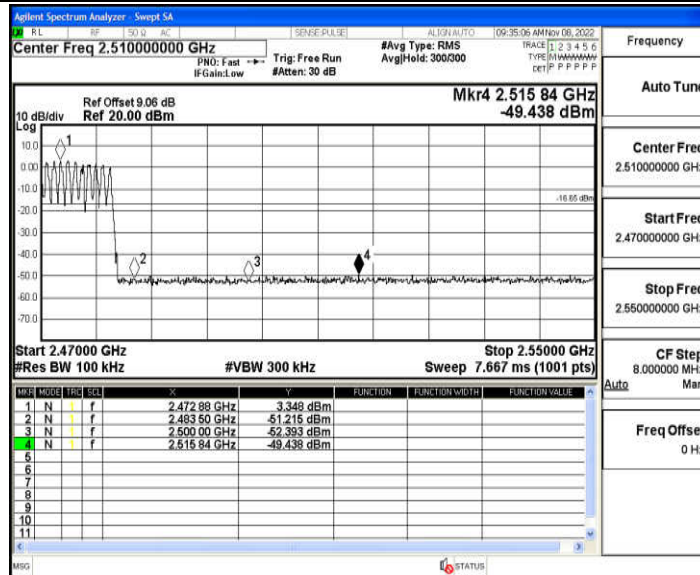
DH5_Ant1_High_2480



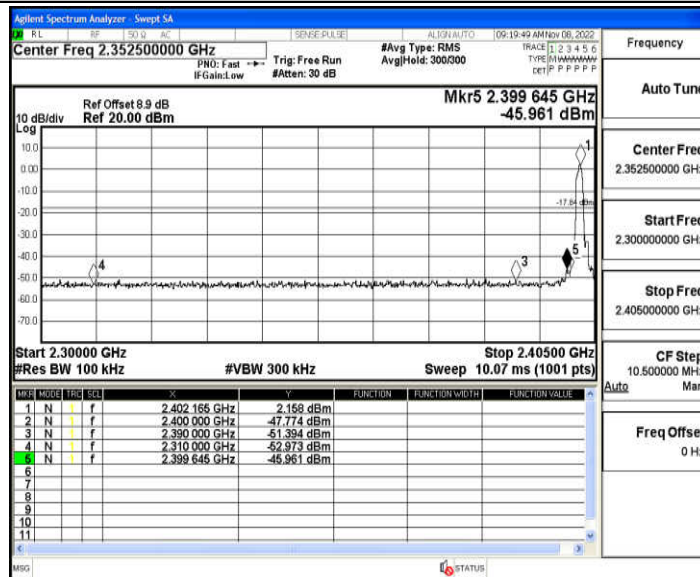
DH5_Ant1_Low_Hop_2402



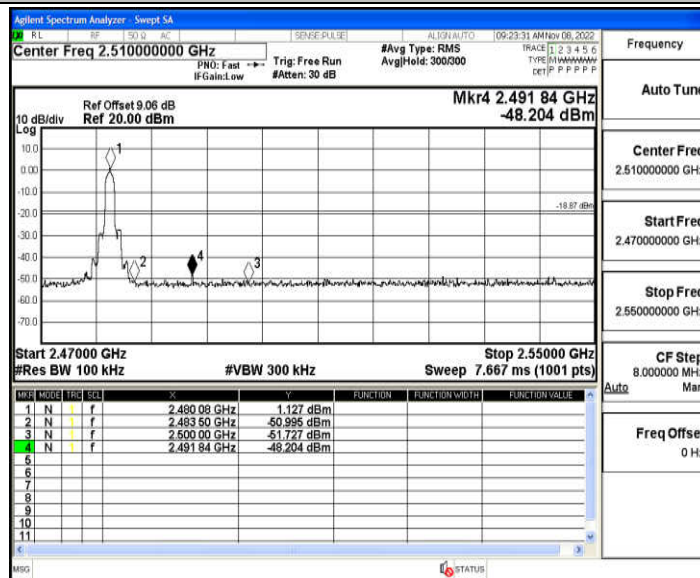
DH5_Ant1_High_Hop_2480



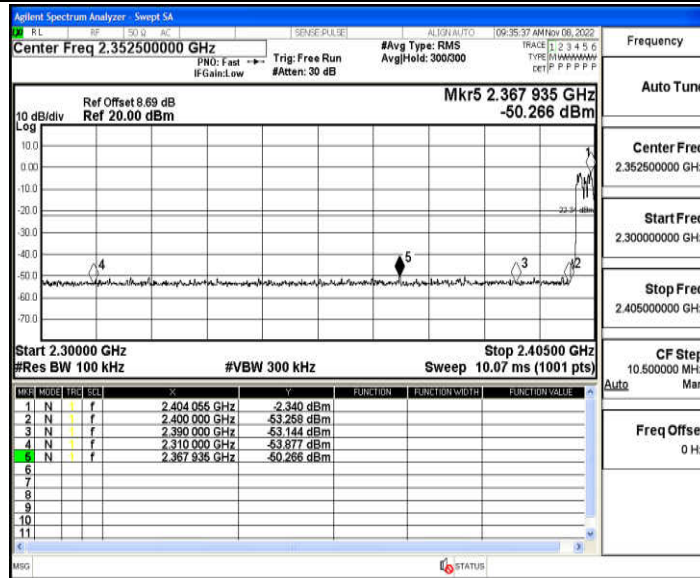
2DH5_Ant1_Low_2402



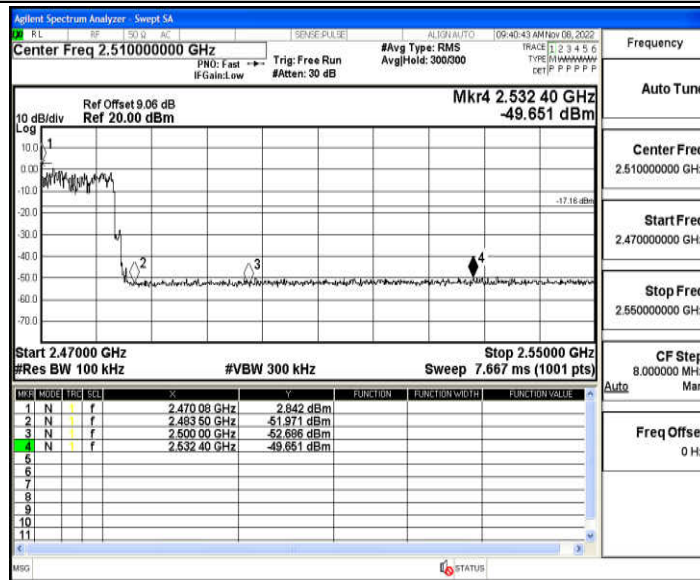
2DH5_Ant1_High_2480



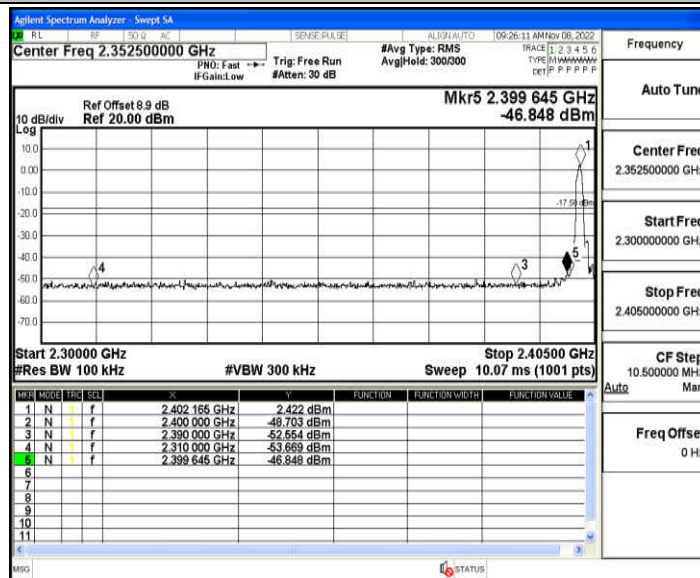
2DH5_Ant1_Low_Hop_2402



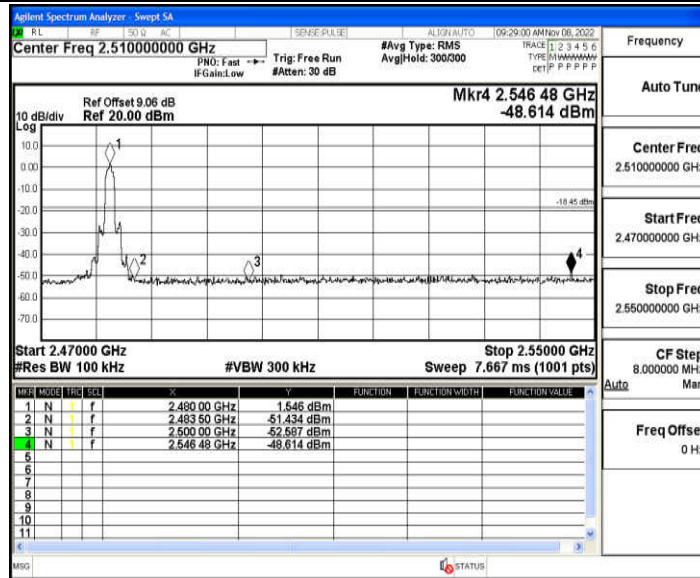
2DH5_Ant1_High_Hop_2480



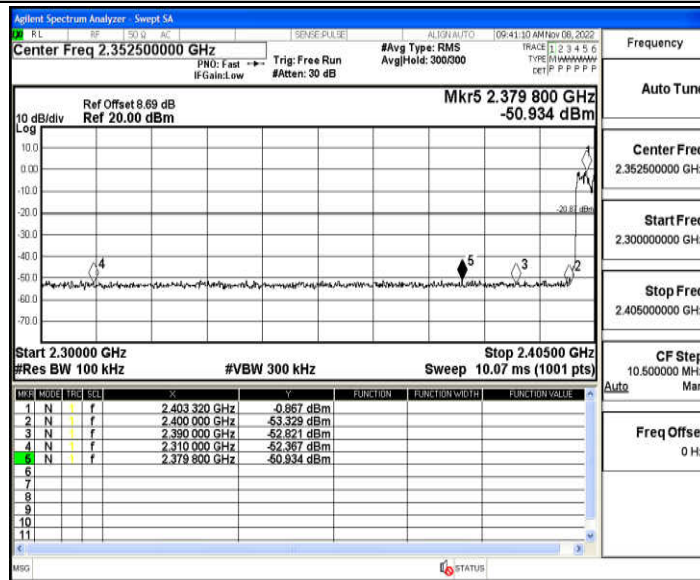
3DH5_Ant1_Low_2402



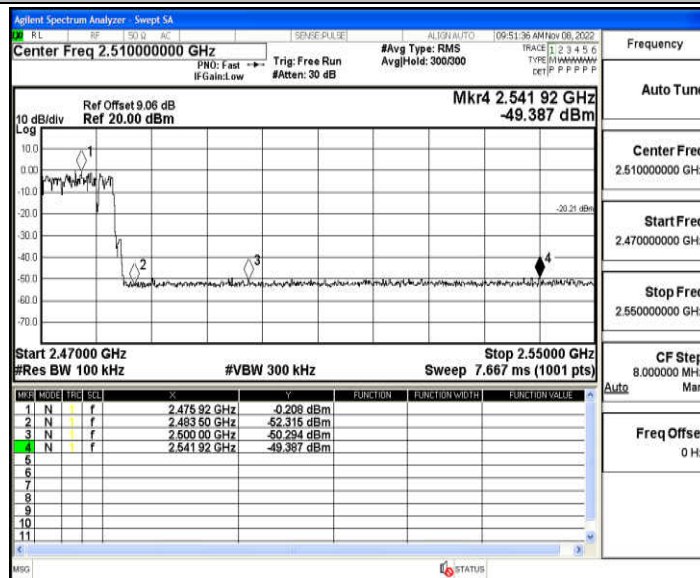
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

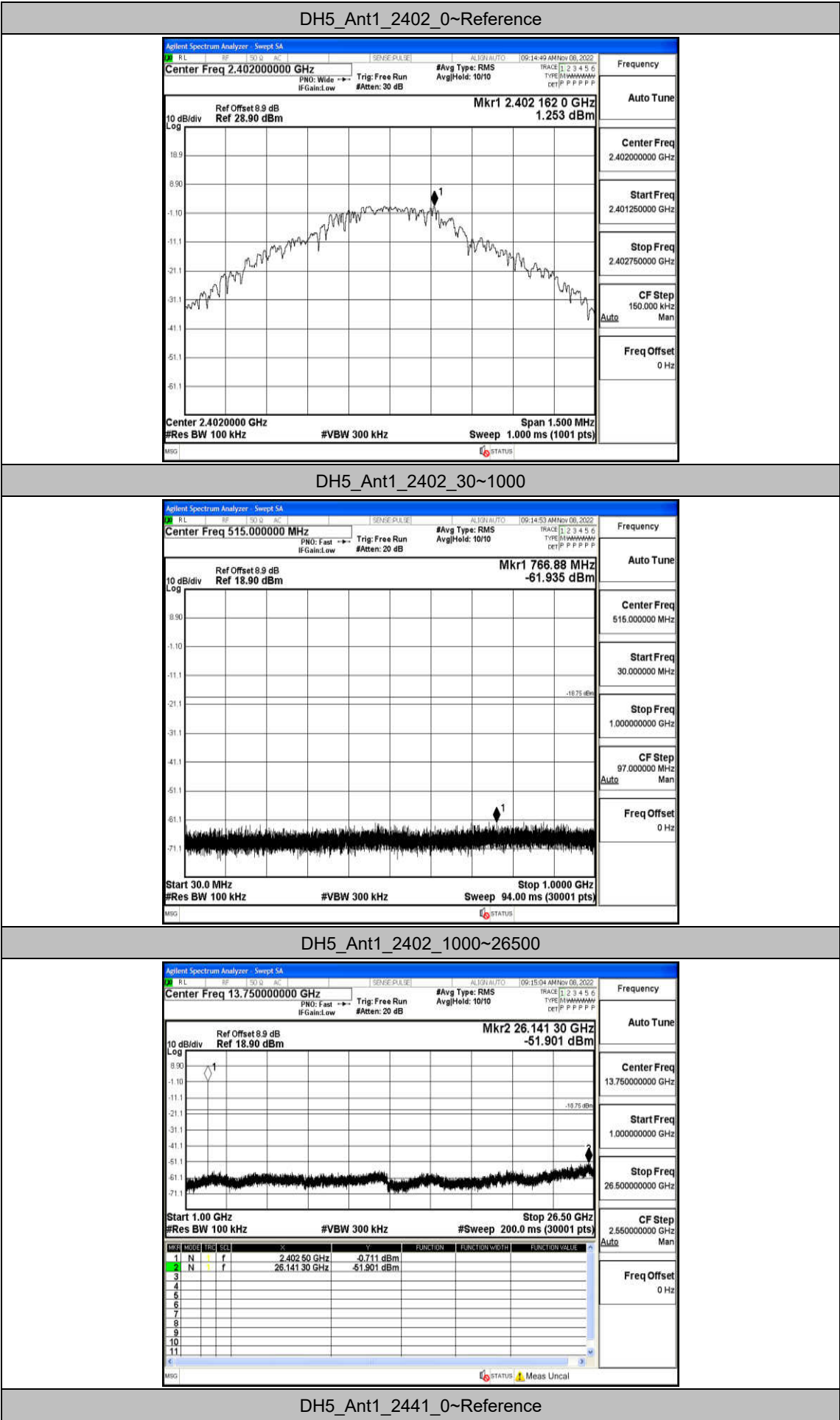


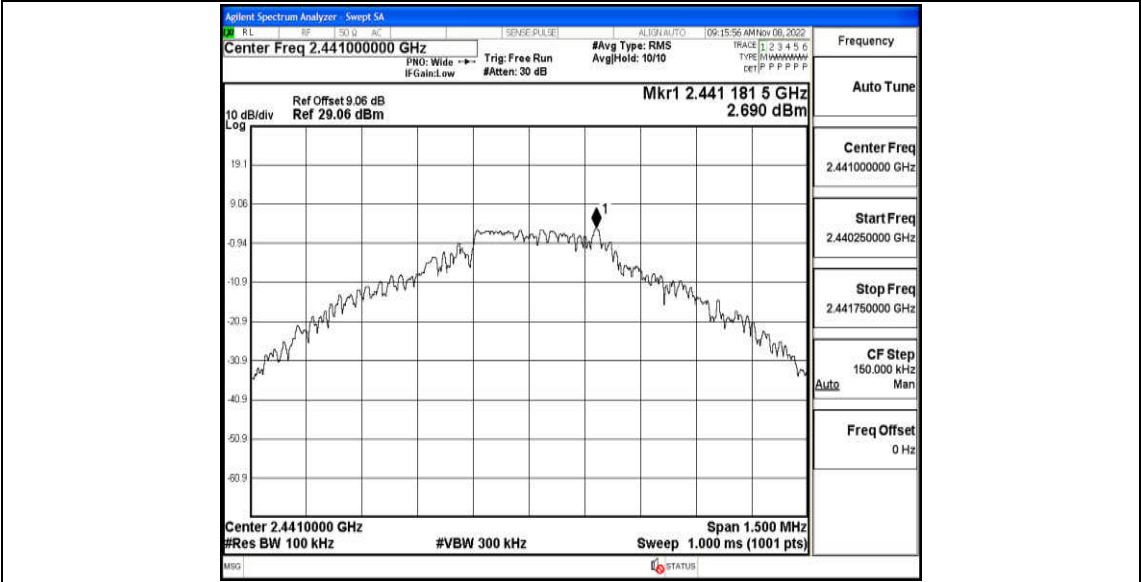
Appendix H: Conducted Spurious Emission

Test Result

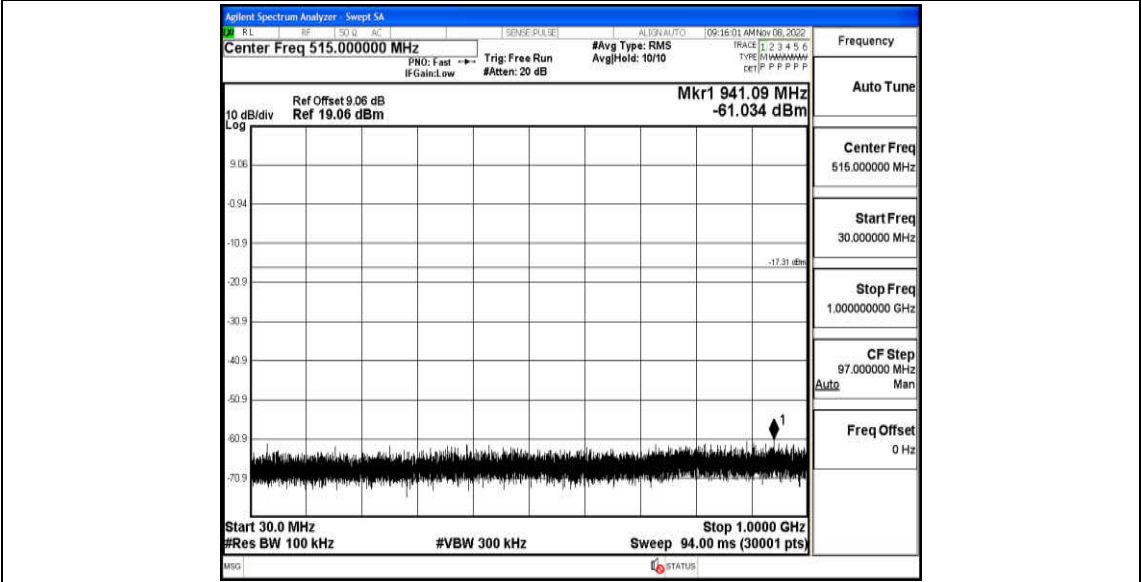
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.25	1.25	---	PASS
			30~1000	1.25	-61.94	≤-18.75	PASS
			1000~26500	1.25	-51.9	≤-18.75	PASS
		2441	Reference	2.69	2.69	---	PASS
			30~1000	2.69	-61.03	≤-17.31	PASS
			1000~26500	2.69	-51.26	≤-17.31	PASS
		2480	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-61.36	≤-18.81	PASS
			1000~26500	1.19	-50.87	≤-18.81	PASS
2DH5	Ant1	2402	Reference	0.50	0.50	---	PASS
			30~1000	0.50	-60.16	≤-19.5	PASS
			1000~26500	0.50	-52.12	≤-19.5	PASS
		2441	Reference	1.05	1.05	---	PASS
			30~1000	1.05	-61.15	≤-18.95	PASS
			1000~26500	1.05	-51.87	≤-18.95	PASS
		2480	Reference	1.22	1.22	---	PASS
			30~1000	1.22	-61.42	≤-18.78	PASS
			1000~26500	1.22	-51.45	≤-18.78	PASS
3DH5	Ant1	2402	Reference	1.35	1.35	---	PASS
			30~1000	1.35	-61.78	≤-18.65	PASS
			1000~26500	1.35	-49.46	≤-18.65	PASS
		2441	Reference	0.16	0.16	---	PASS
			30~1000	0.16	-61.44	≤-19.84	PASS
			1000~26500	0.16	-50.89	≤-19.84	PASS
		2480	Reference	-0.04	-0.04	---	PASS
			30~1000	-0.04	-61.27	≤-20.04	PASS
			1000~26500	-0.04	-51.47	≤-20.04	PASS

Test Graphs

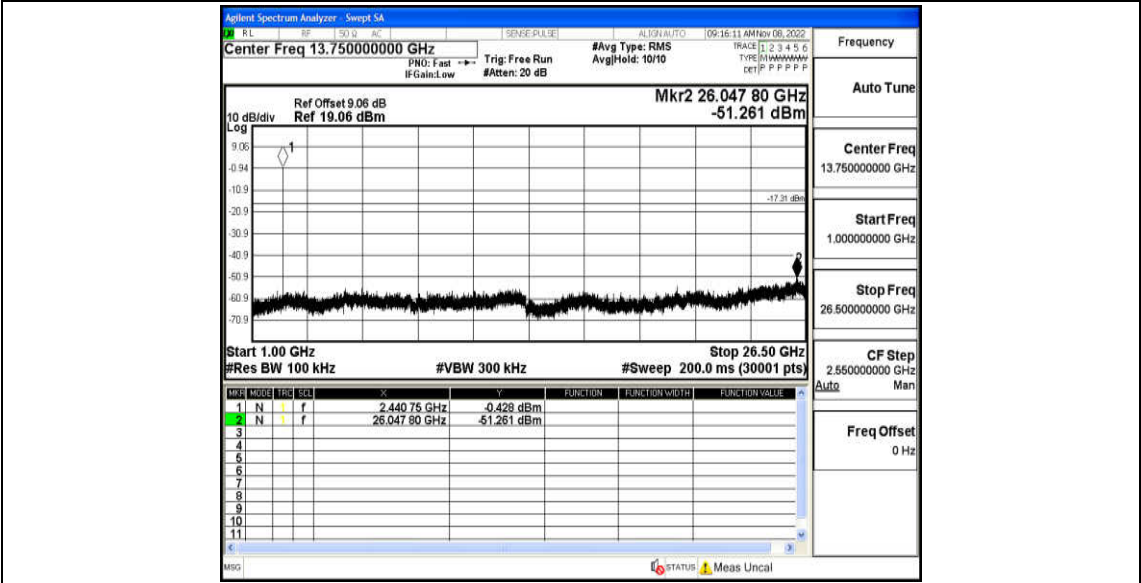




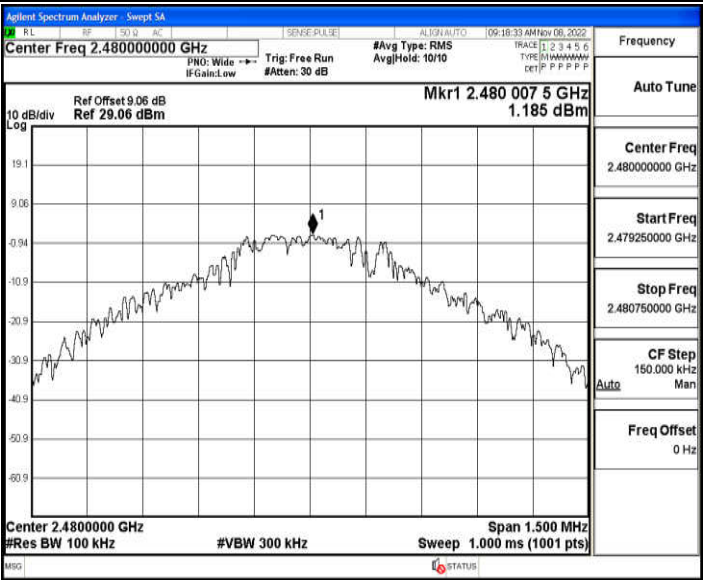
DH5_Ant1_2441_30~1000



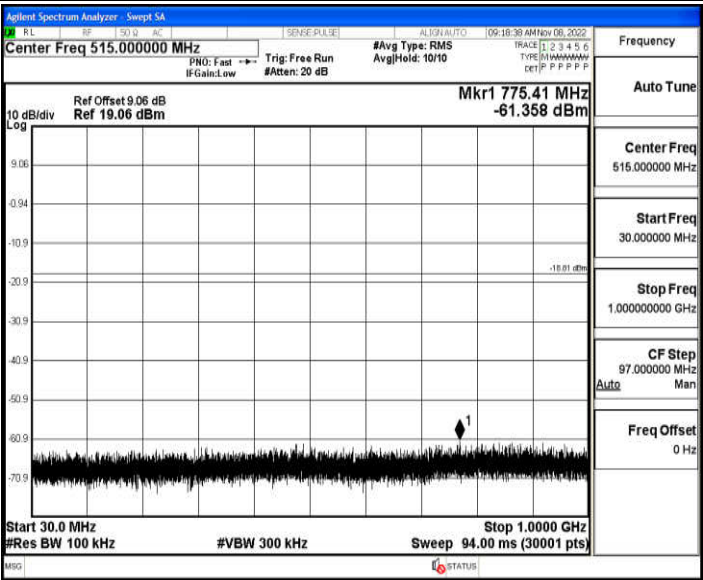
DH5_Ant1_2441_1000~26500



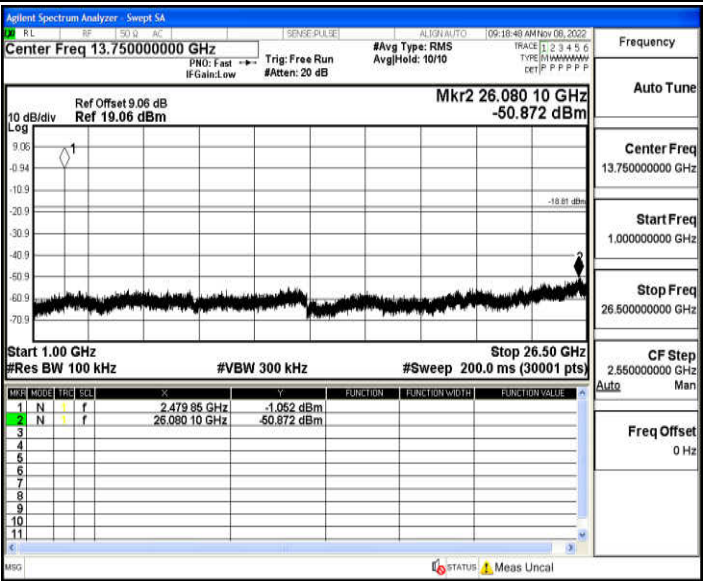
DH5_Ant1_2480_0~Reference



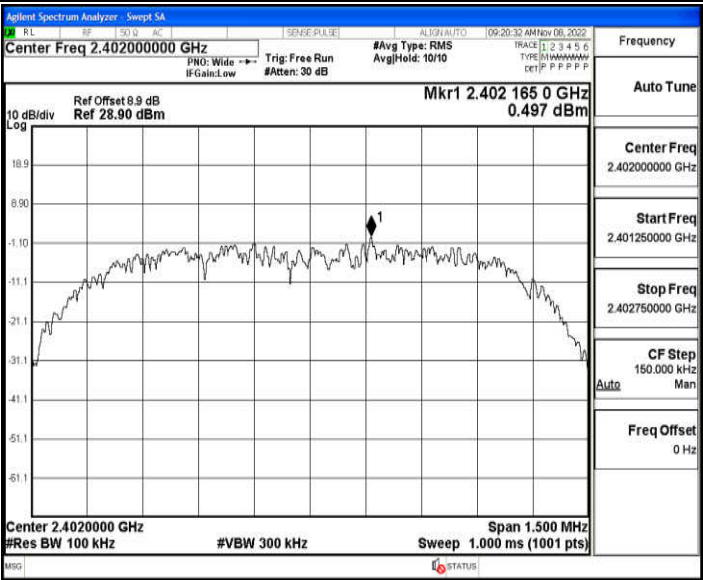
DH5_Ant1_2480_30~1000



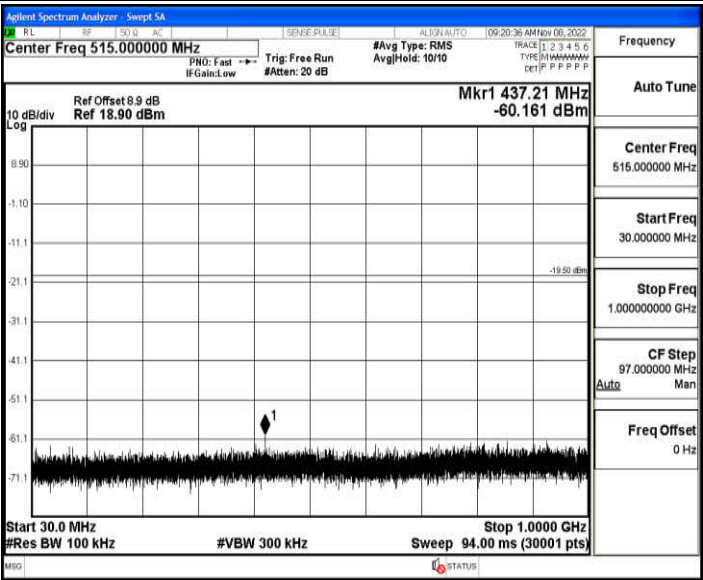
DH5_Ant1_2480_1000~26500



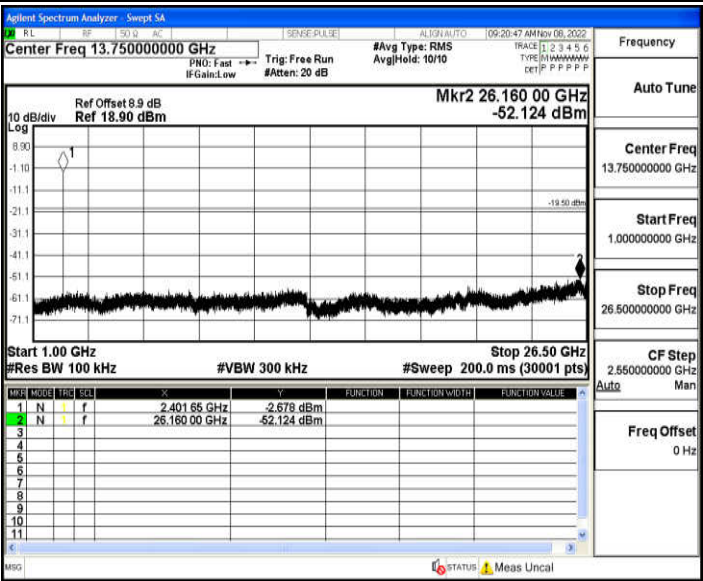
2DH5_Ant1_2402_0~Reference



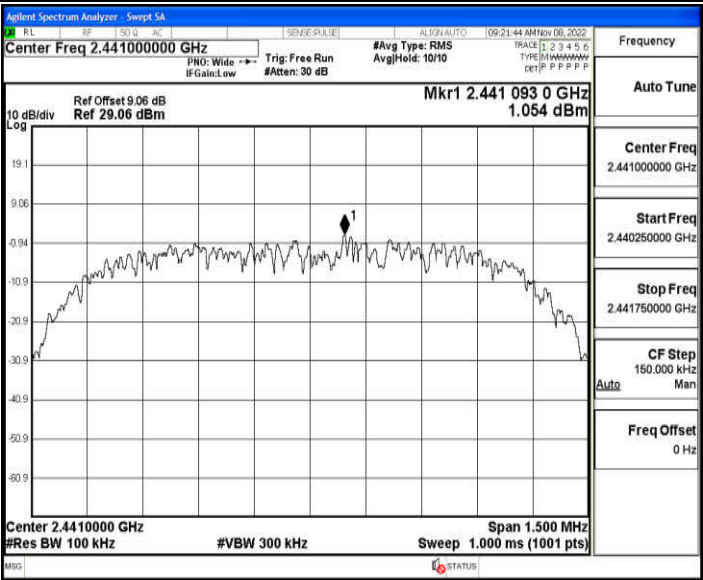
2DH5_Ant1_2402_30~1000



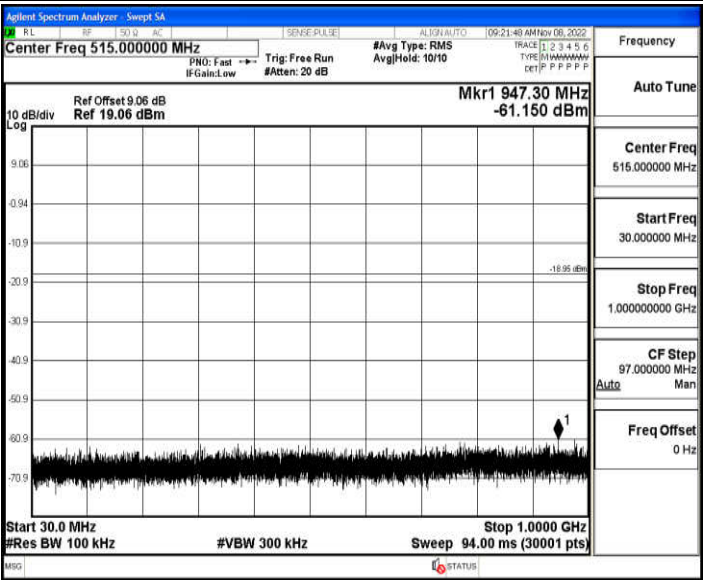
2DH5_Ant1_2402_1000~26500



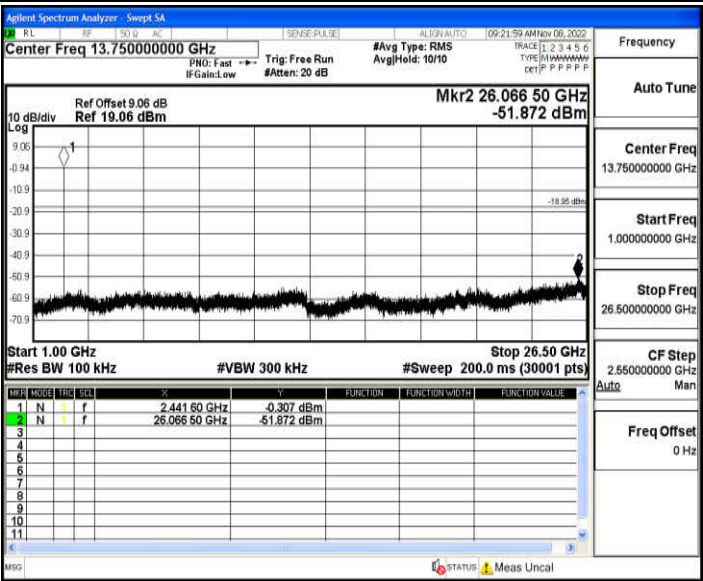
2DH5_Ant1_2441_0~Reference



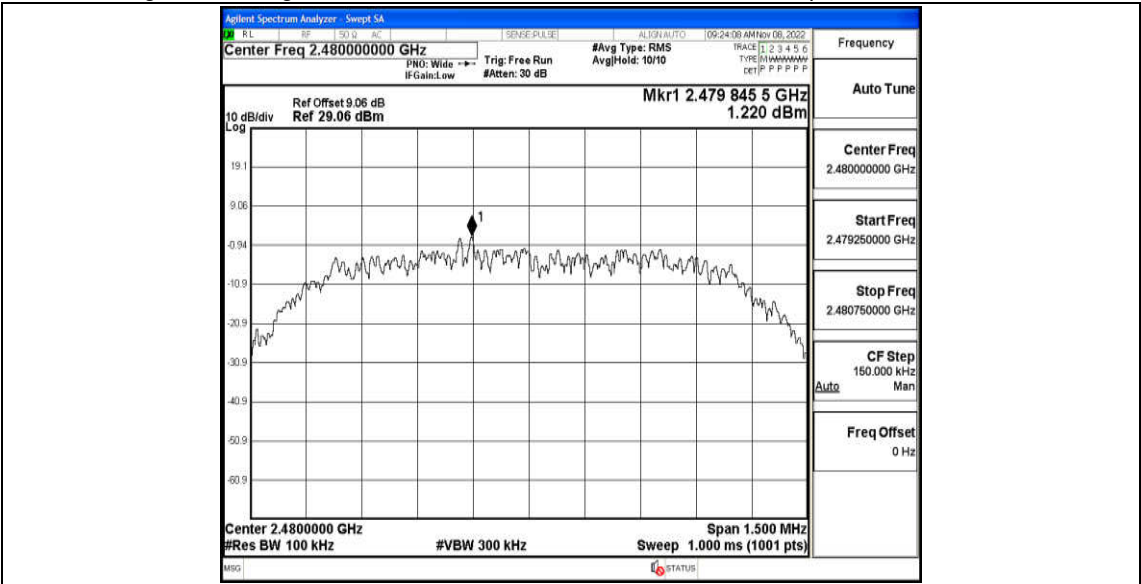
2DH5_Ant1_2441_30~1000



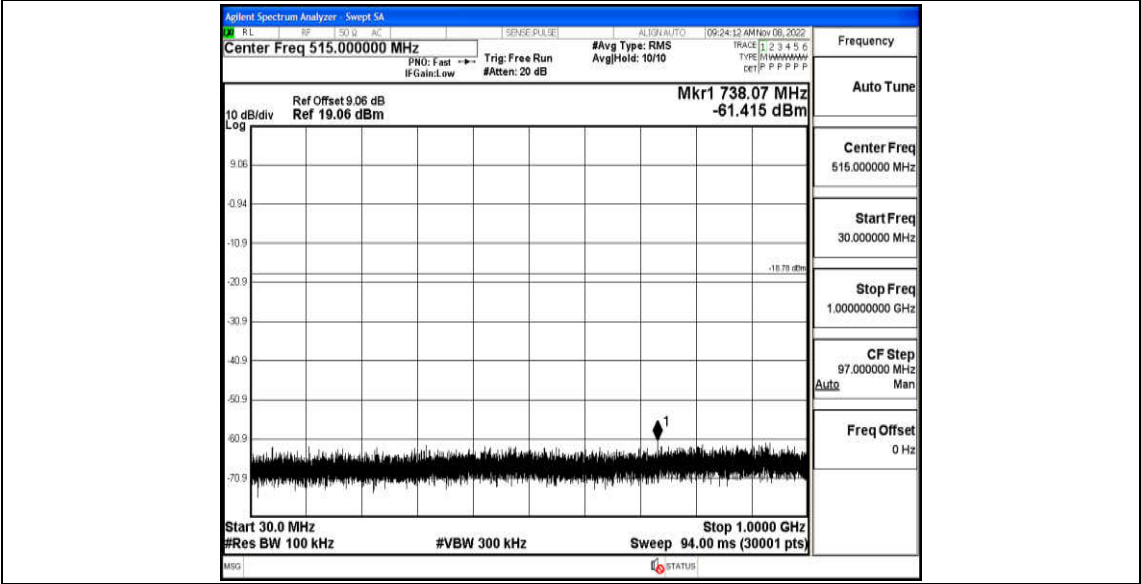
2DH5_Ant1_2441_1000~26500



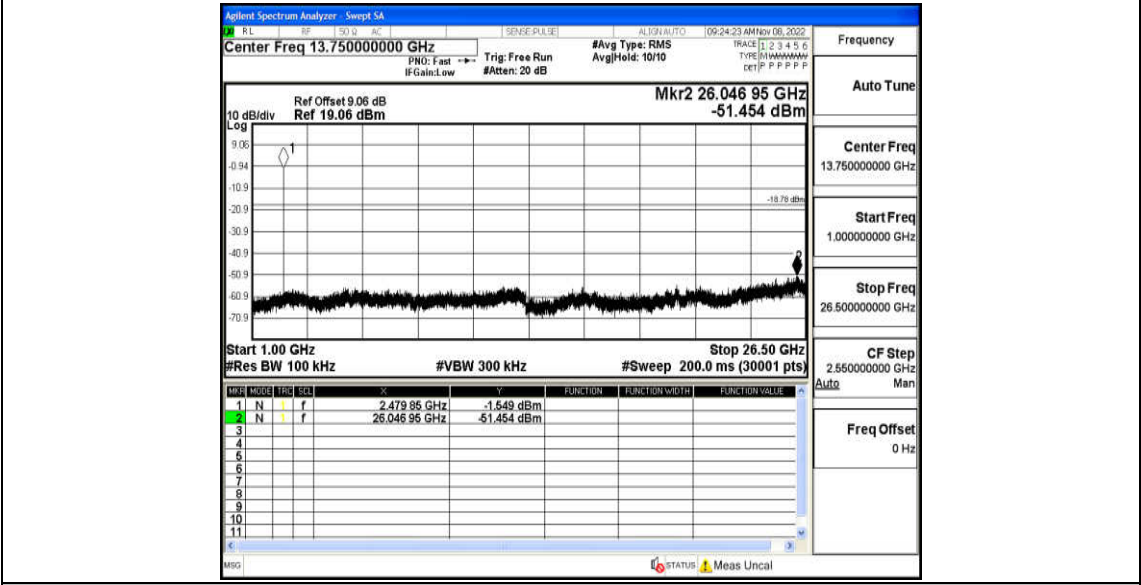
2DH5_Ant1_2480_0~Reference



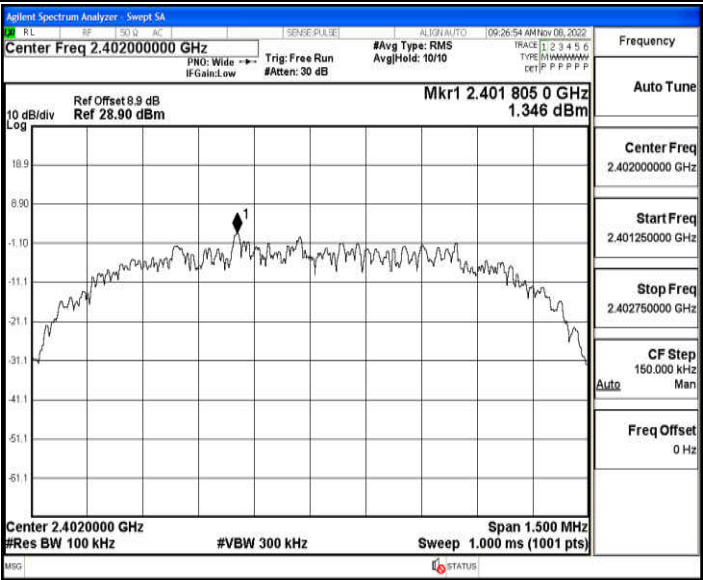
2DH5_Ant1_2480_30~1000



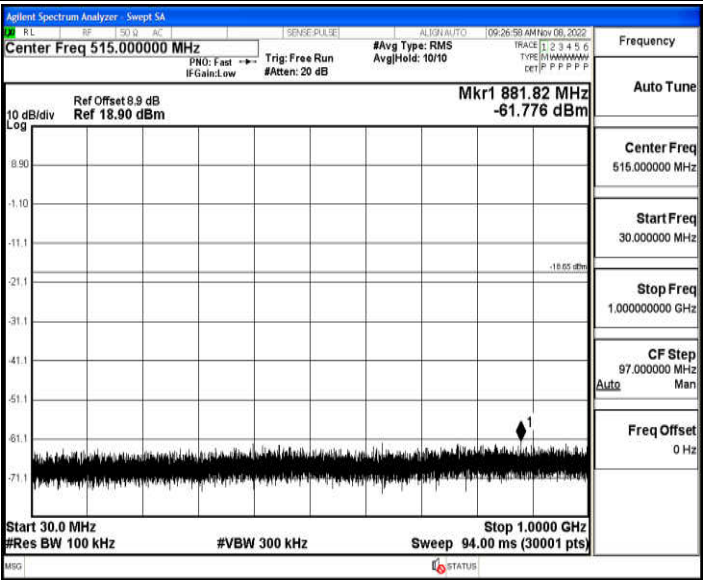
2DH5_Ant1_2480_1000~26500



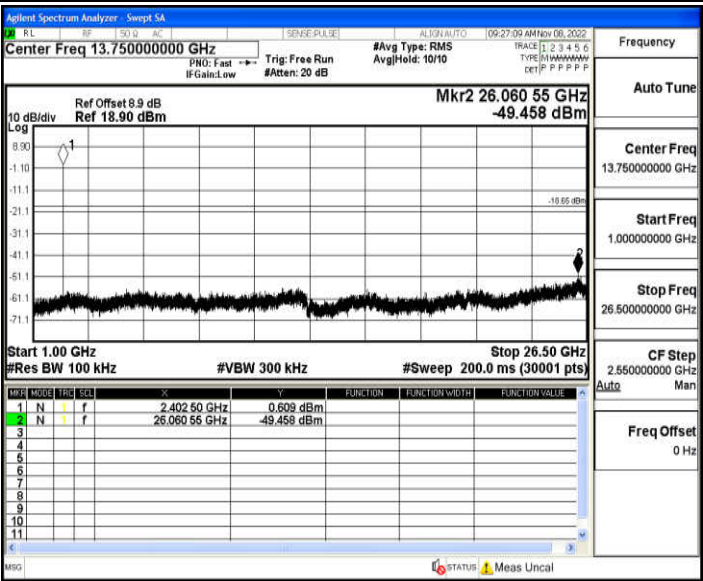
3DH5_Ant1_2402_0~Reference



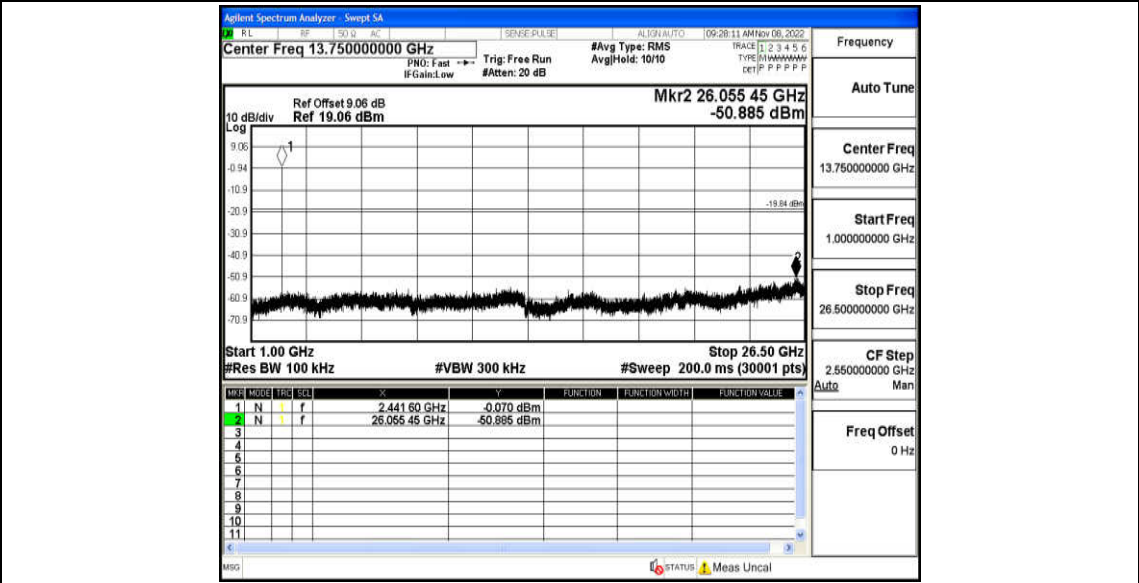
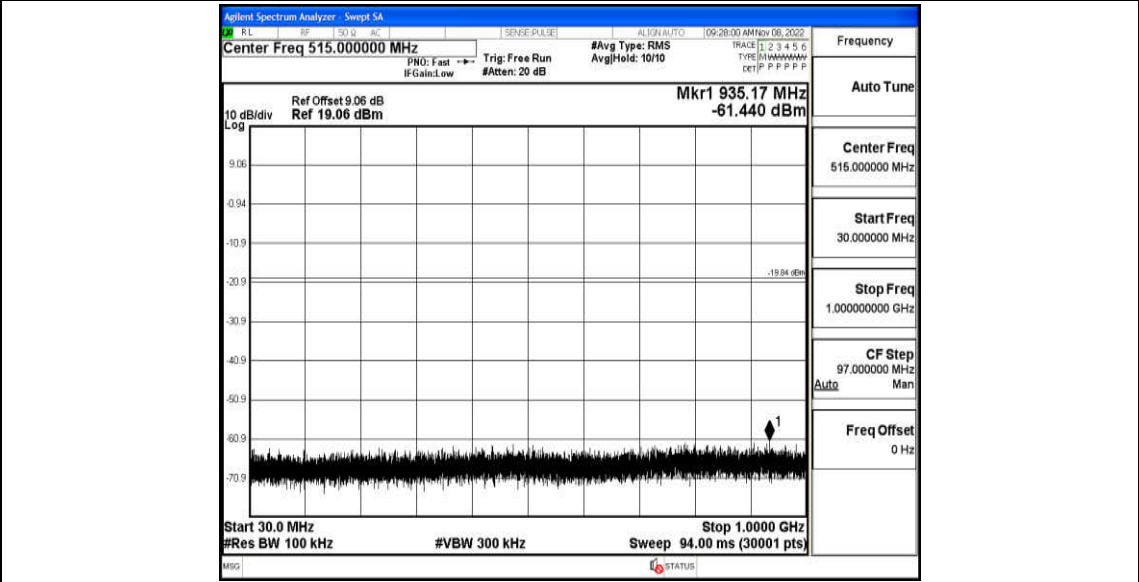
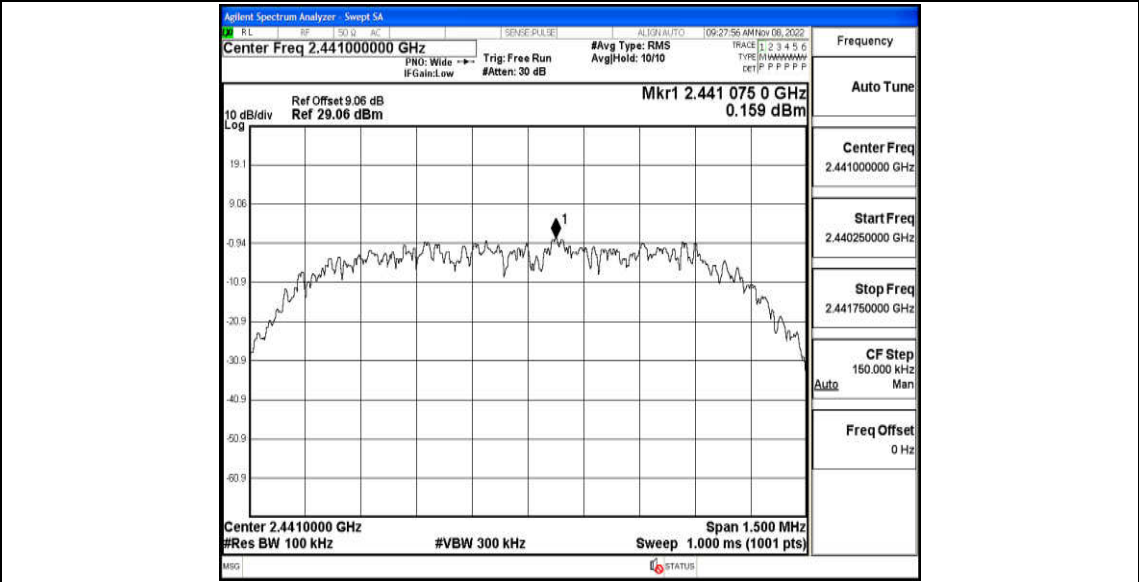
3DH5_Ant1_2402_30~1000

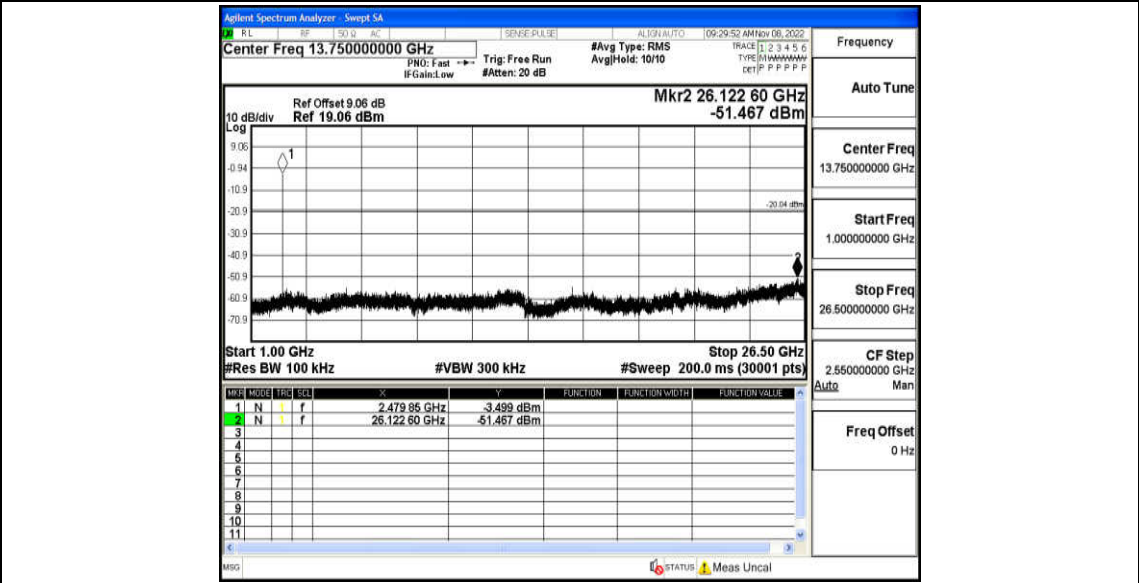
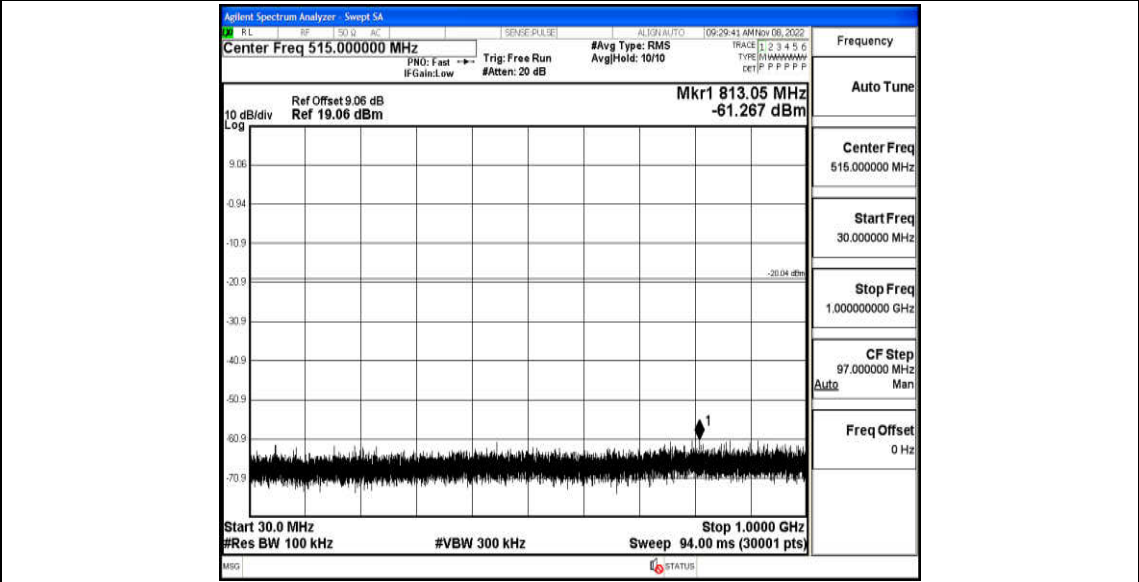
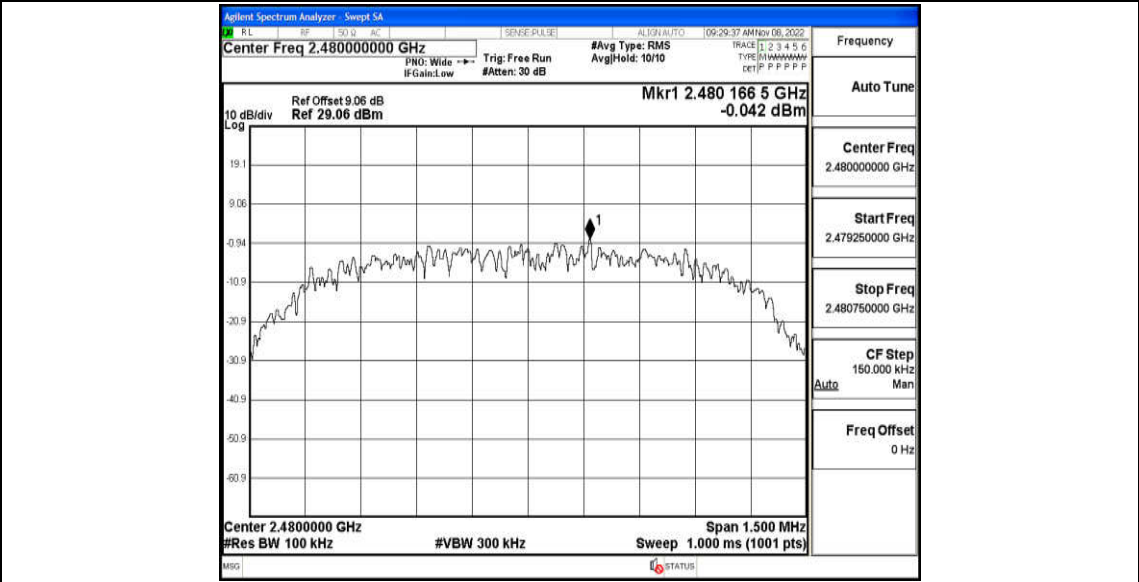


3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



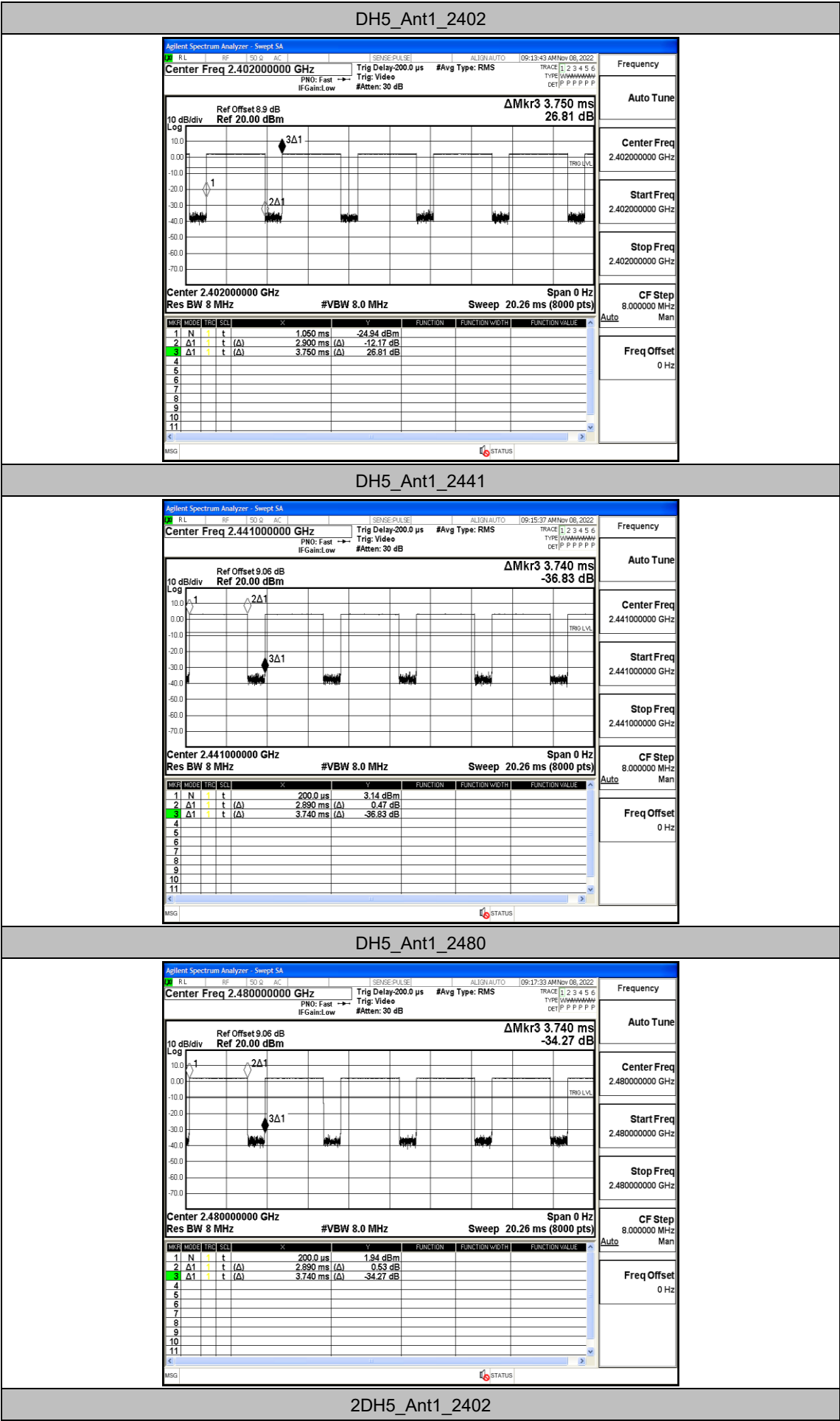


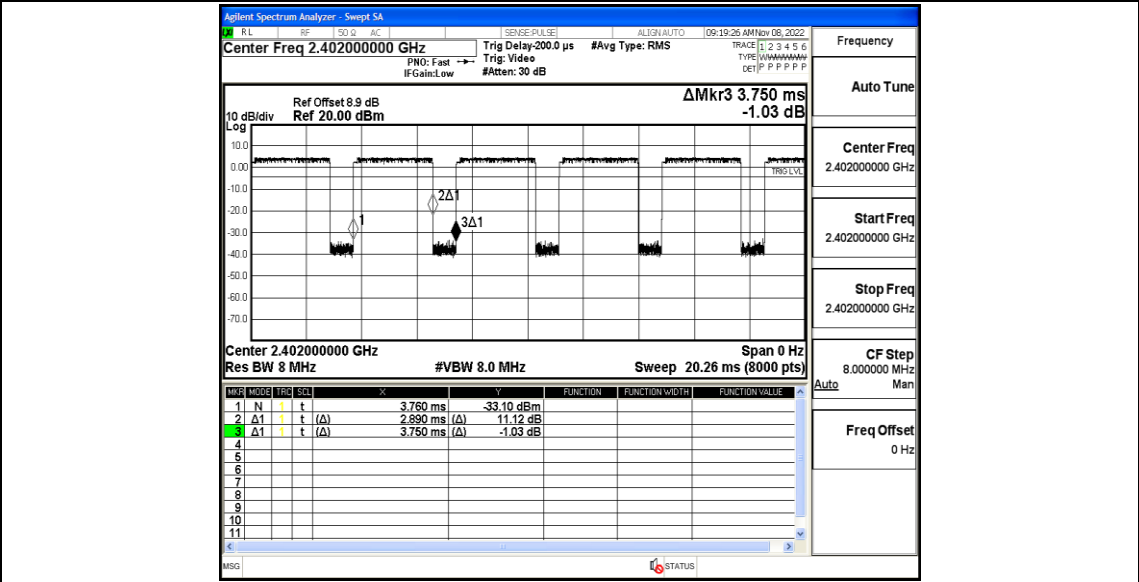
Appendix I: Duty Cycle

Test Result

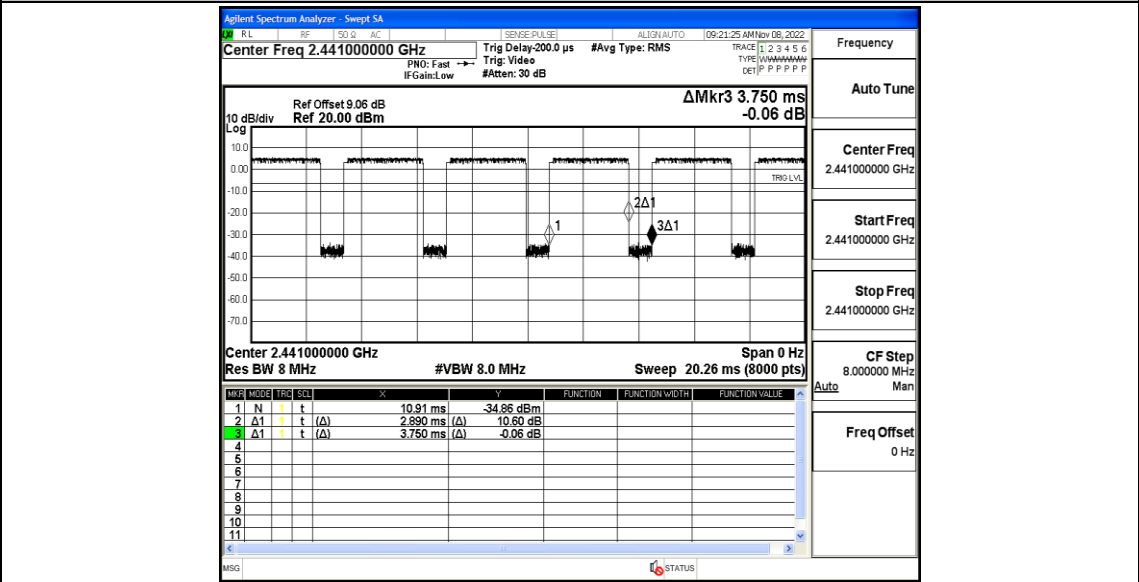
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
DH5	Ant1	2402	2.90	3.75	77.33	0.34
		2441	2.89	3.74	77.27	0.35
		2480	2.89	3.74	77.27	0.35
2DH5	Ant1	2402	2.89	3.75	77.07	0.35
		2441	2.89	3.75	77.07	0.35
		2480	2.88	3.75	76.80	0.35
3DH5	Ant1	2402	2.88	3.75	76.80	0.35
		2441	2.88	3.75	76.80	0.35
		2480	2.88	3.75	76.80	0.35

Test Graphs

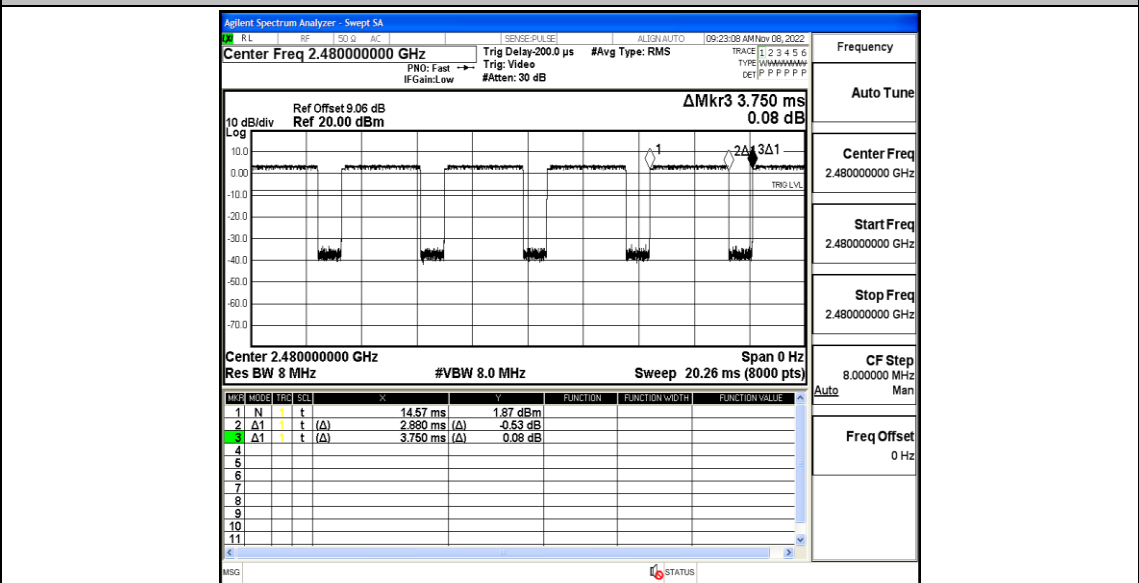




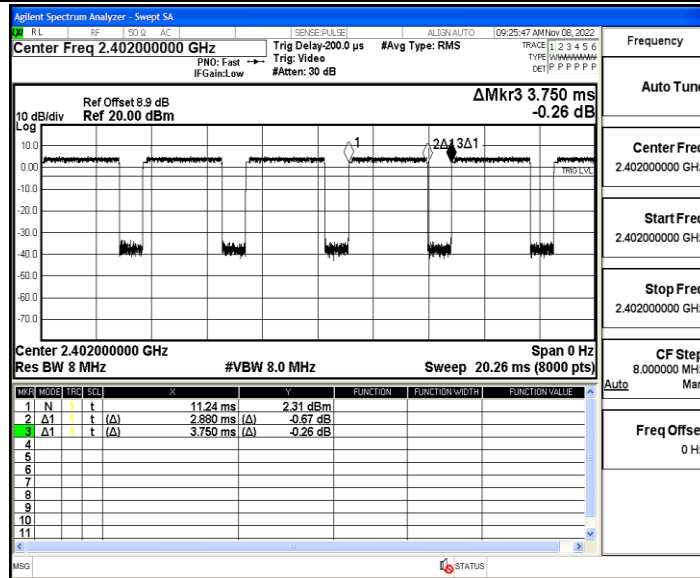
2DH5_Ant1_2441



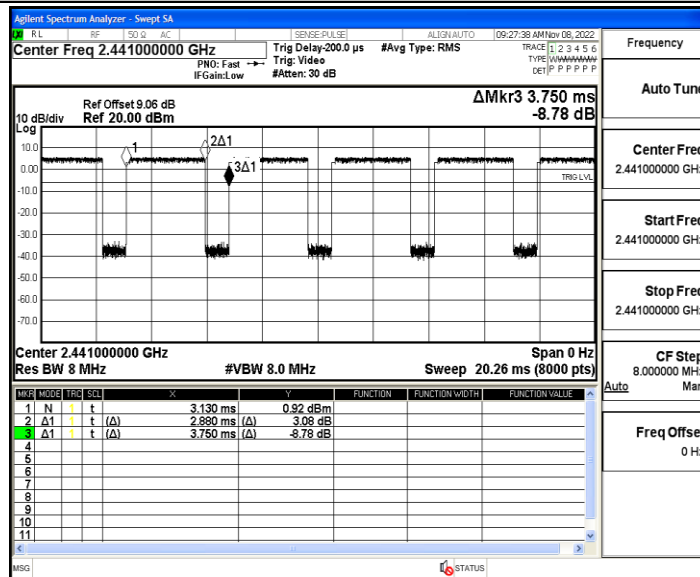
2DH5_Ant1_2480



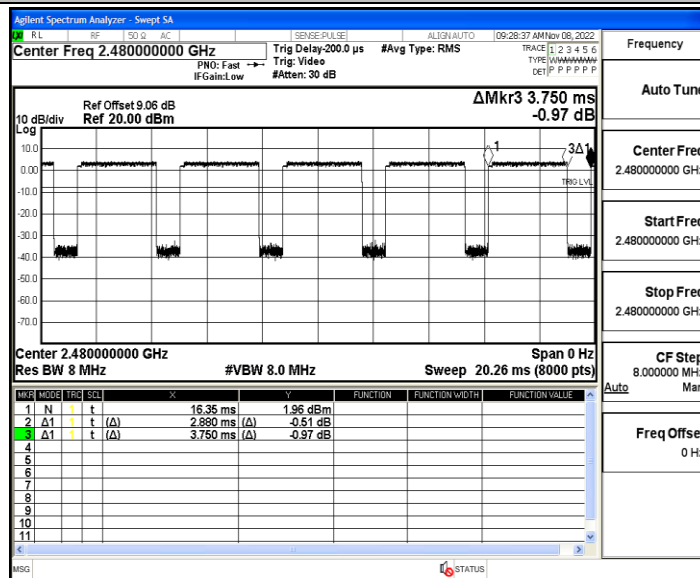
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix J: Emissions in Restricted Bands

Test Result

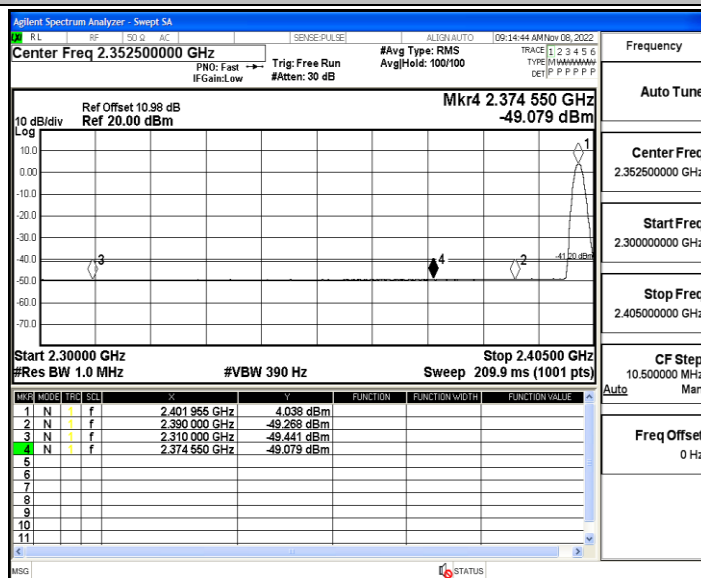
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.44	≤-41.20	PASS
				AV	2374.550	-49.08	≤-41.20	PASS
				AV	2390.000	-49.27	≤-41.20	PASS
				Peak	2310.000	-42.13	≤-21.20	PASS
				Peak	2327.300	-39.51	≤-21.20	PASS
				Peak	2390.000	-40.57	≤-21.20	PASS
		High	2480	AV	2483.500	-48.16	≤-41.20	PASS
				AV	2483.520	-48.16	≤-41.20	PASS
				AV	2500.000	-48.46	≤-41.20	PASS
				Peak	2483.500	-42.14	≤-21.20	PASS
				Peak	2497.600	-37.95	≤-21.20	PASS
				Peak	2500.000	-41.35	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.39	≤-41.20	PASS
				AV	2385.050	-49.08	≤-41.20	PASS
				AV	2390.000	-49.15	≤-41.20	PASS
				Peak	2310.000	-42.94	≤-21.20	PASS
				Peak	2334.125	-39.71	≤-21.20	PASS
				Peak	2390.000	-42.45	≤-21.20	PASS
		High	2480	AV	2483.500	-46.81	≤-41.20	PASS
				AV	2483.520	-46.81	≤-41.20	PASS
				AV	2500.000	-48.42	≤-41.20	PASS
				Peak	2483.500	-41.08	≤-21.20	PASS
				Peak	2483.600	-38.22	≤-21.20	PASS
				Peak	2500.000	-40.28	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.53	≤-41.20	PASS
				AV	2387.990	-49.09	≤-41.20	PASS
				AV	2390.000	-49.25	≤-41.20	PASS
				Peak	2310.000	-42.25	≤-21.20	PASS
				Peak	2380.115	-39.26	≤-21.20	PASS
				Peak	2390.000	-42.28	≤-21.20	PASS
		High	2480	AV	2483.500	-46.68	≤-41.20	PASS
				AV	2483.520	-46.68	≤-41.20	PASS
				AV	2500.000	-48.44	≤-41.20	PASS
				Peak	2483.500	-41.26	≤-21.20	PASS
				Peak	2487.920	-39.49	≤-21.20	PASS
				Peak	2500.000	-40.96	≤-21.20	PASS

Note:

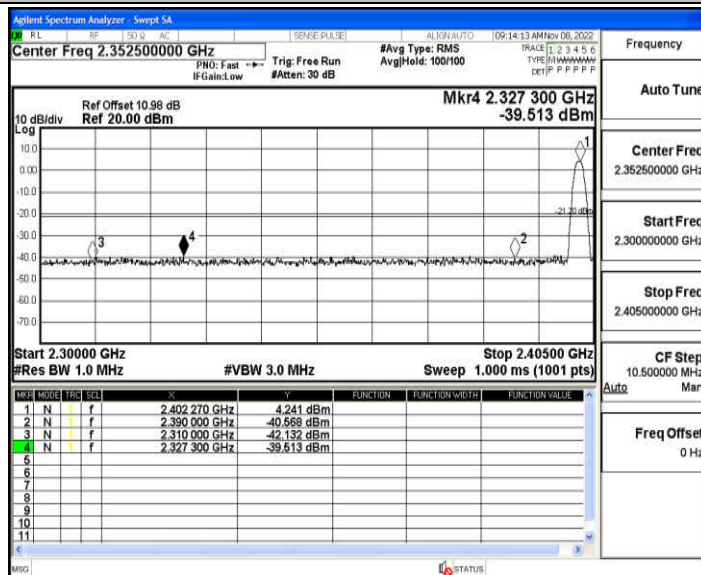
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

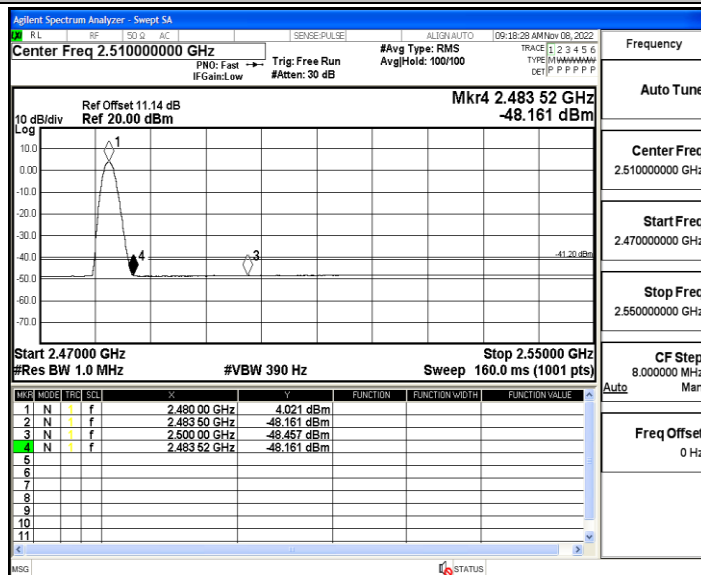
DH5_Ant1_Low_2402_AV



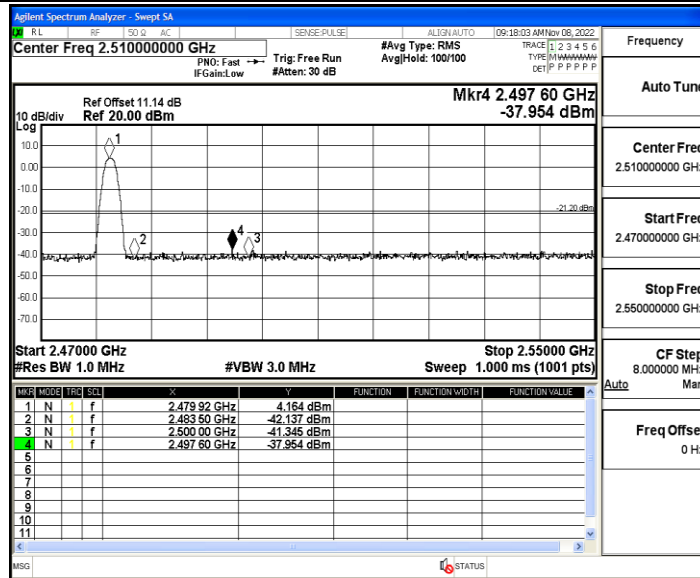
DH5_Ant1_Low_2402_Peak



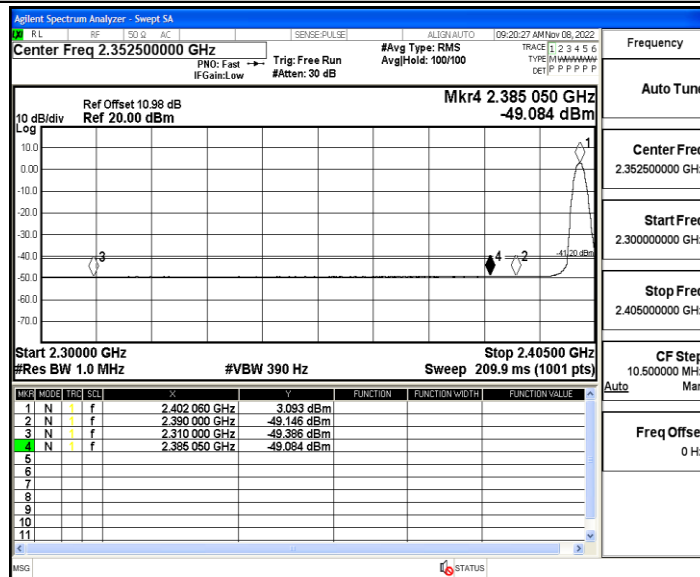
DH5_Ant1_High_2480_AV



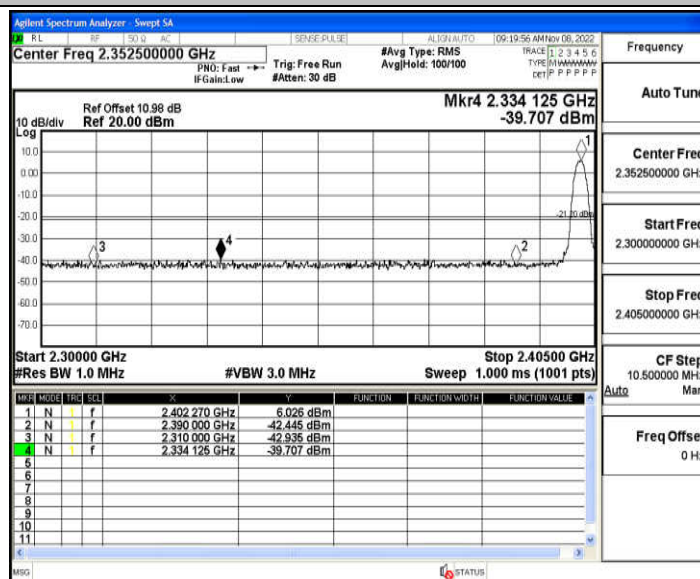
DH5_Ant1_High_2480_Peak



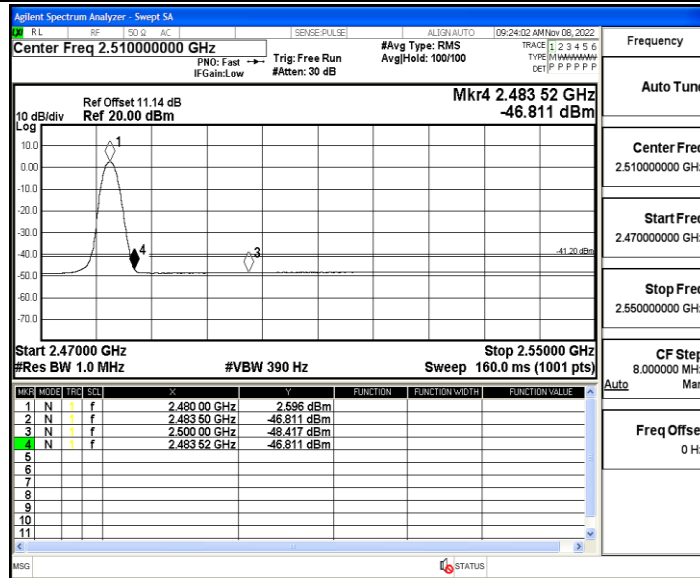
2DH5_Ant1_Low_2402_AV



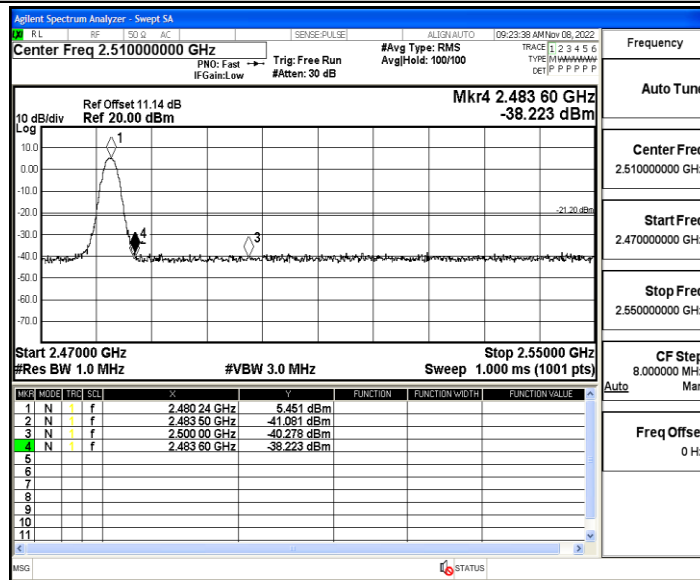
2DH5_Ant1_Low_2402_Peak



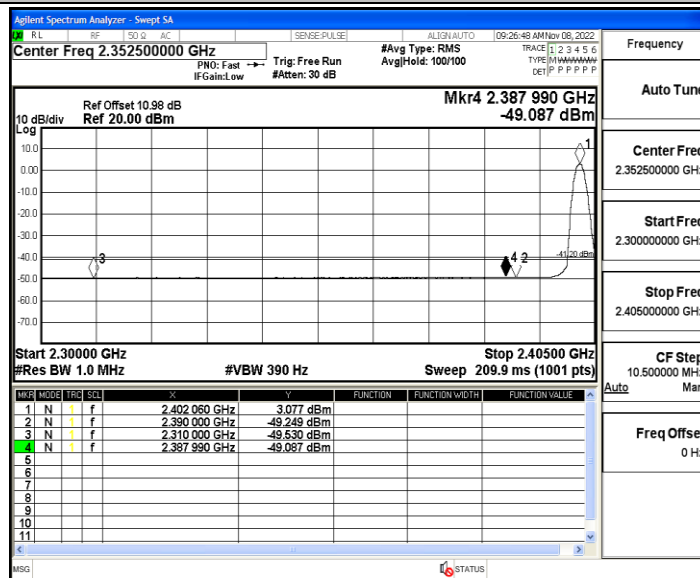
2DH5_Ant1_High_2480_AV



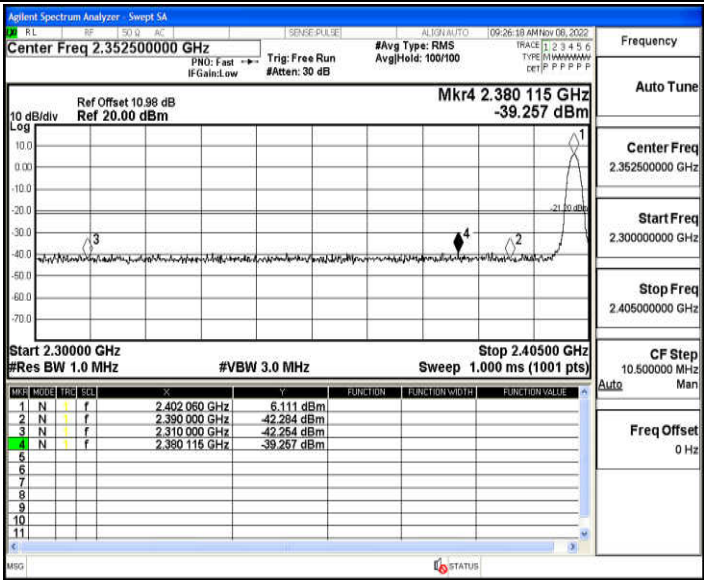
2DH5_Ant1_High_2480_Peak



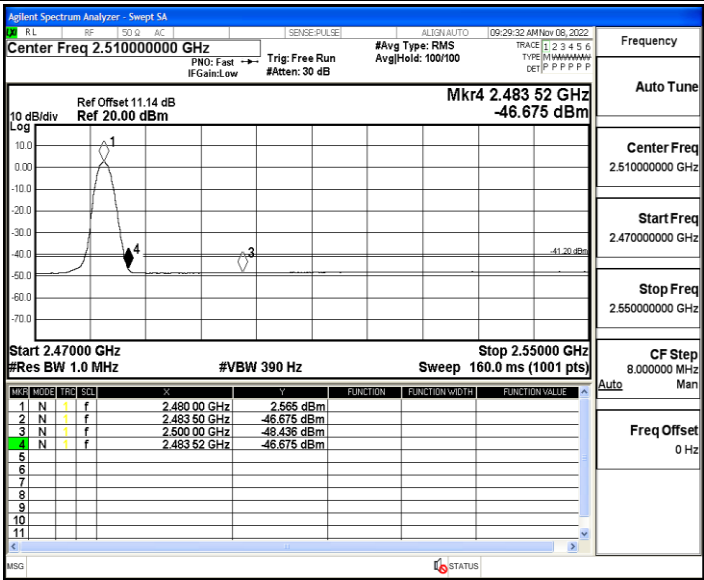
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

