

Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Wireless audio adapter

Trade Mark: N/A

Test Model: T10

FCC ID: 2A4WAT10

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

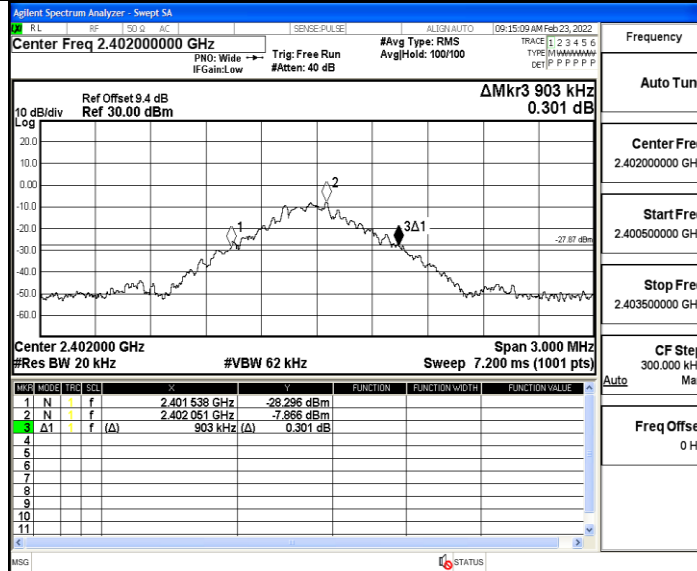
Appendix A: 20dB Emission Bandwidth

Test Result

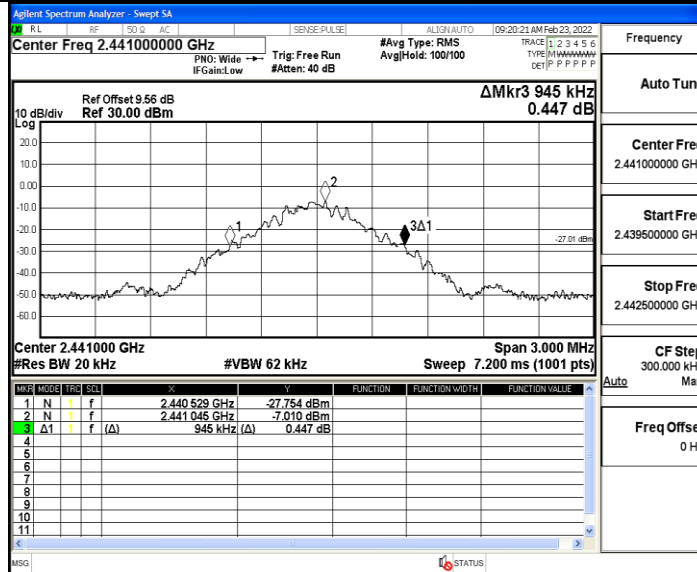
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.903	2401.538	2402.441	---	PASS
		2441	0.945	2440.529	2441.474	---	PASS
		2480	0.891	2479.532	2480.423	---	PASS
2DH5	Ant1	2402	1.311	2401.331	2402.642	---	PASS
		2441	1.281	2440.340	2441.621	---	PASS
		2480	1.308	2479.334	2480.642	---	PASS

Test Graphs

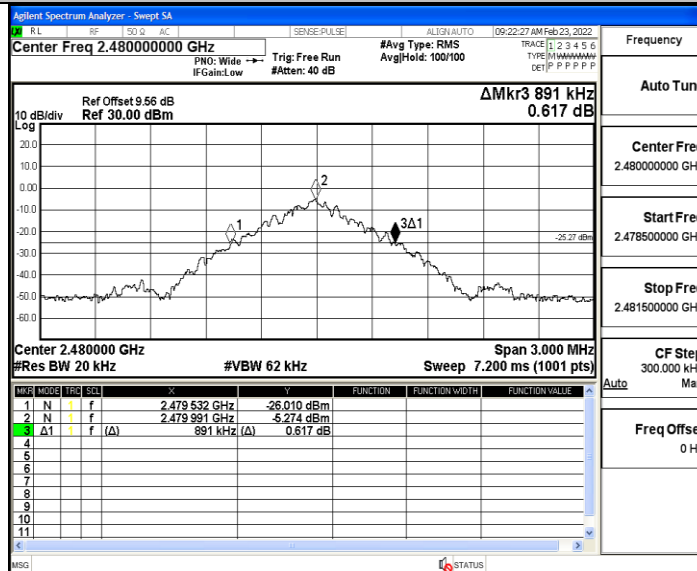
DH5_Ant1_2402



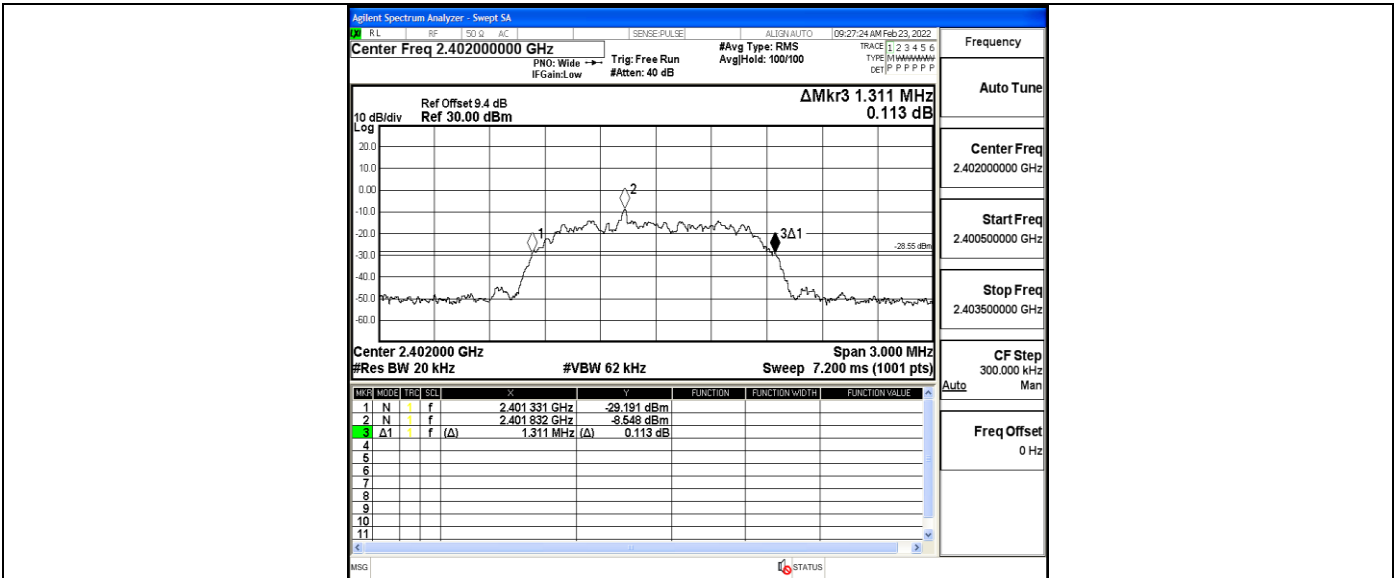
DH5_Ant1_2441



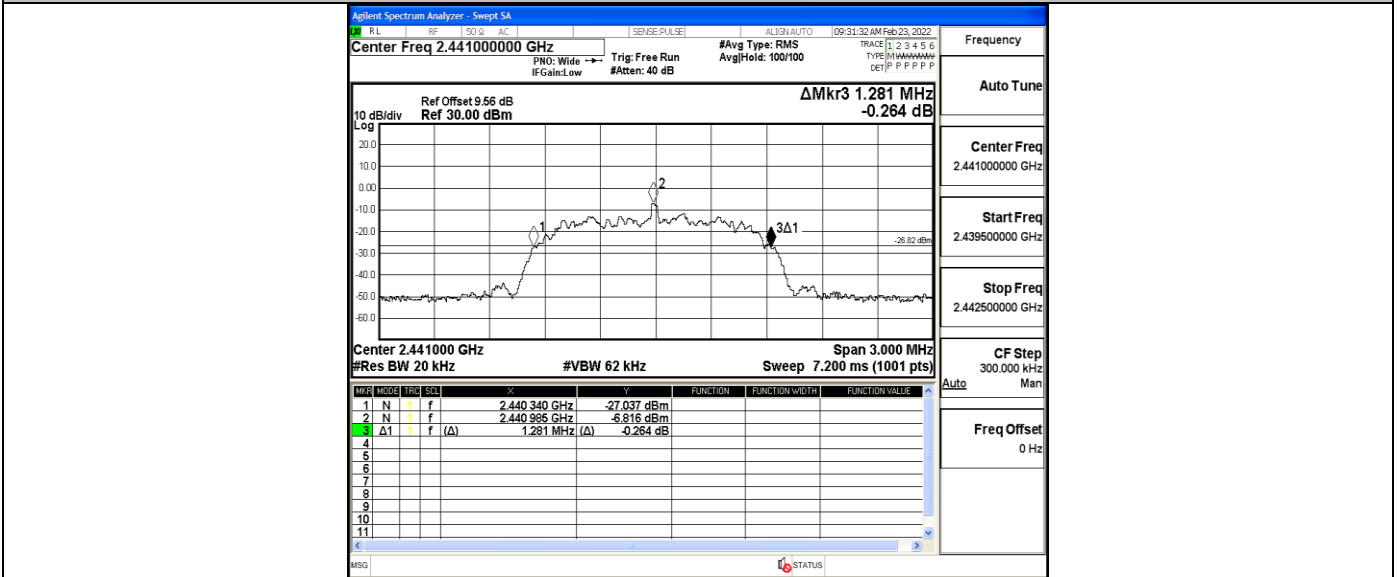
DH5_Ant1_2480



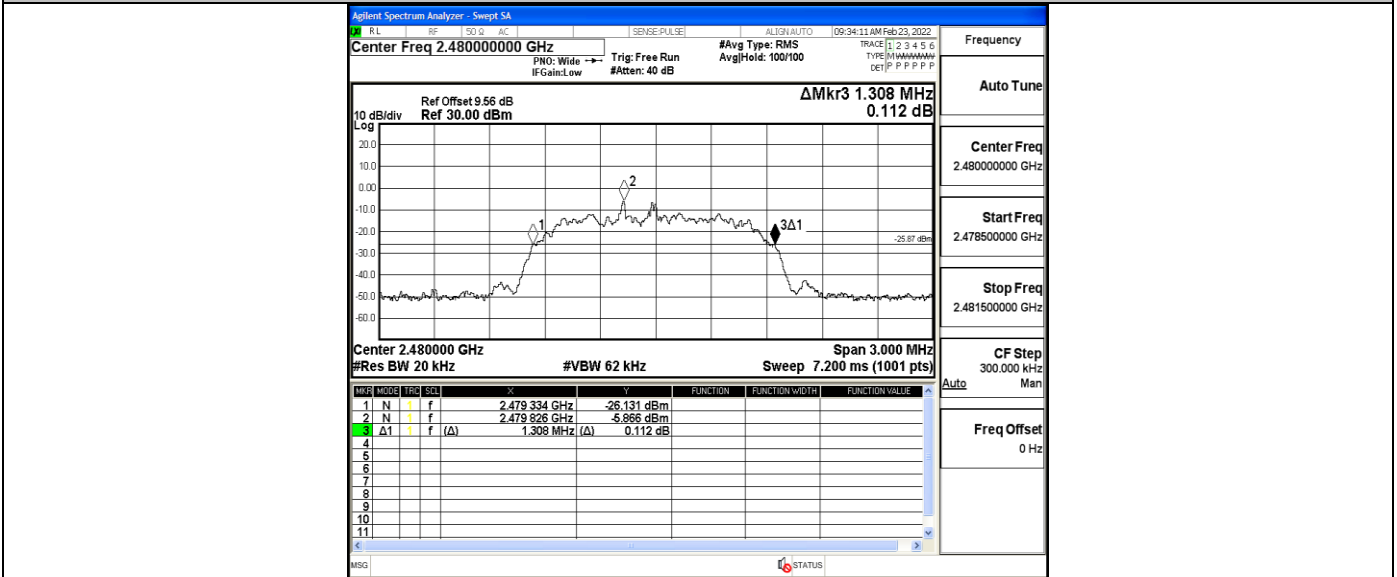
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



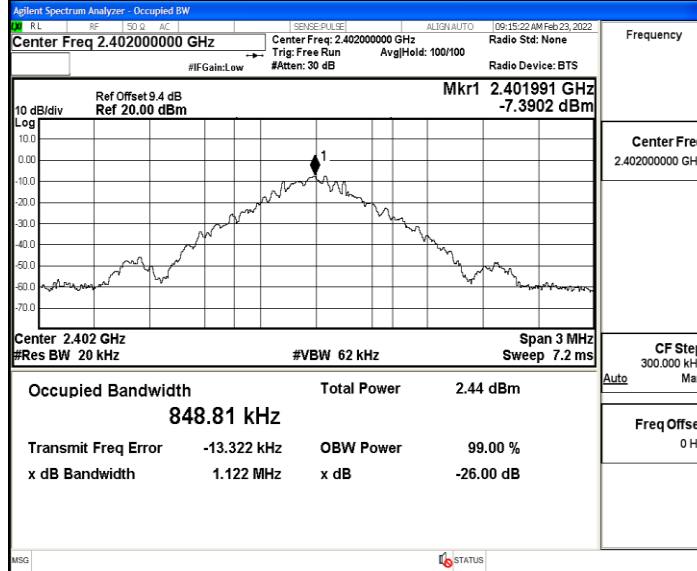
Appendix B: Occupied Channel Bandwidth

Test Result

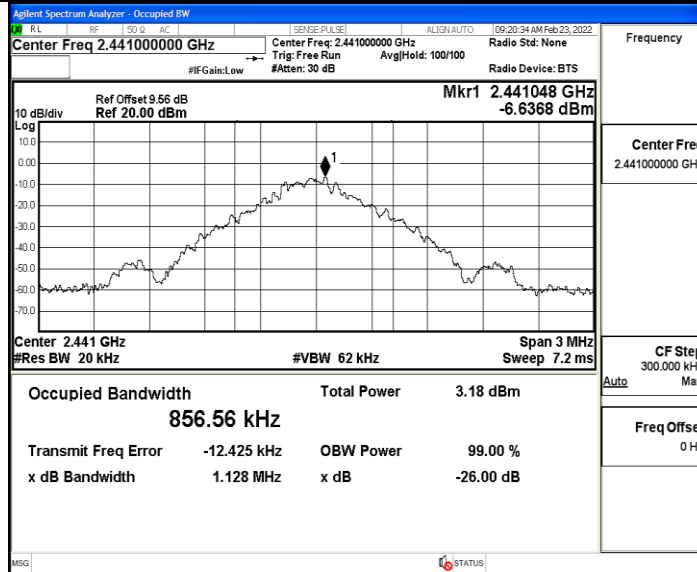
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84881	2401.562	2402.411	---	PASS
		2441	0.85656	2440.559	2441.416	---	PASS
		2480	0.86304	2479.556	2480.419	---	PASS
2DH5	Ant1	2402	1.1828	2401.398	2402.581	---	PASS
		2441	1.1864	2440.397	2441.583	---	PASS
		2480	1.1732	2479.402	2480.575	---	PASS

Test Graphs

DH5_Ant1_2402



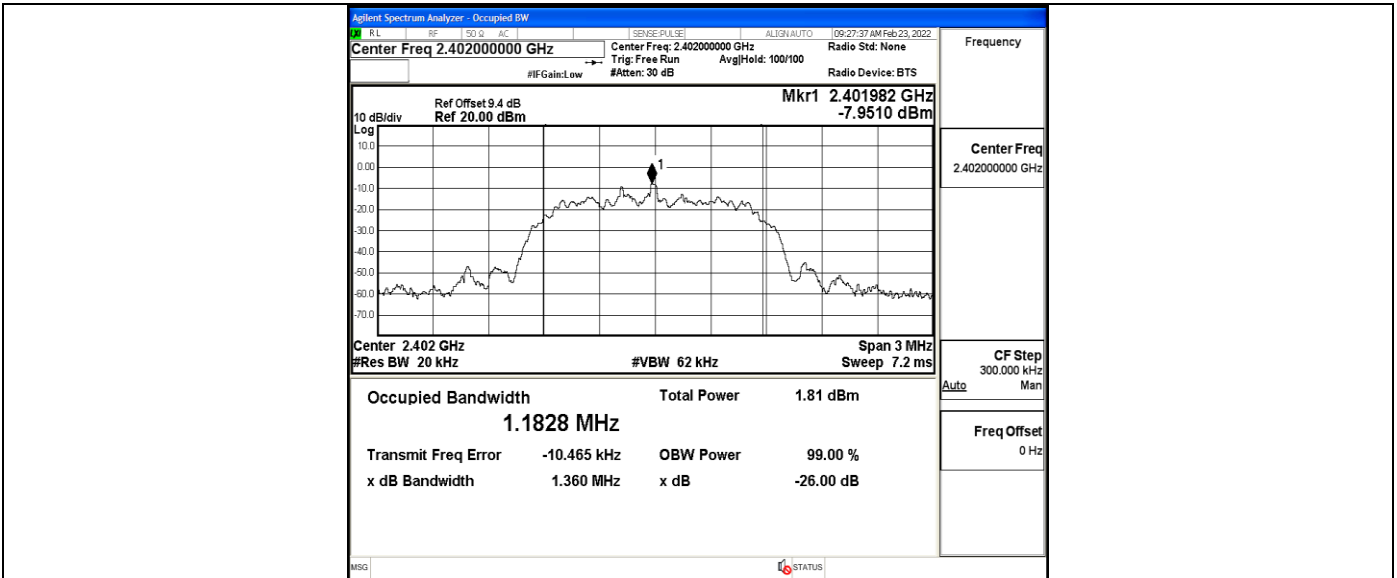
DH5_Ant1_2441



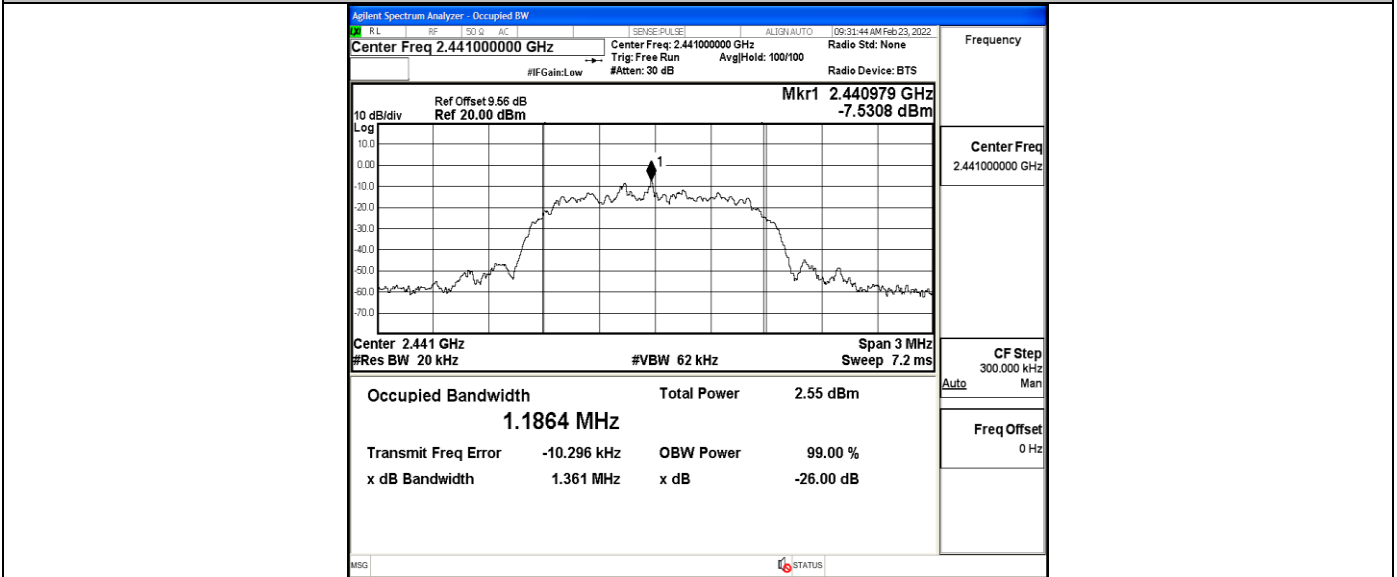
DH5_Ant1_2480



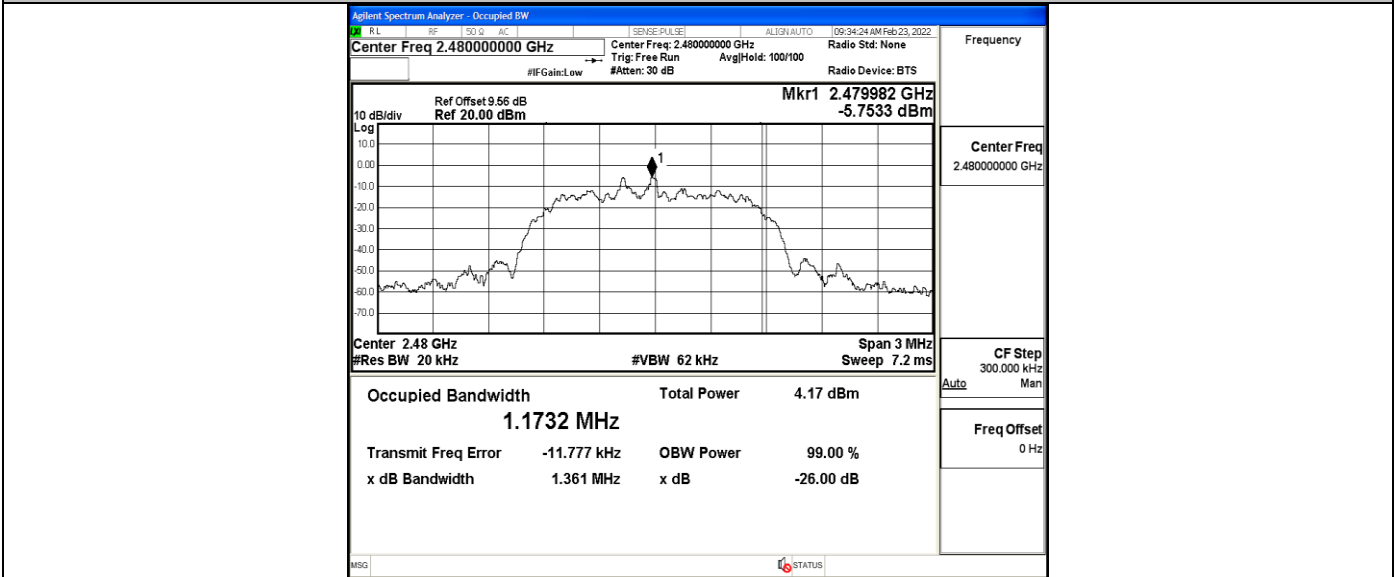
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

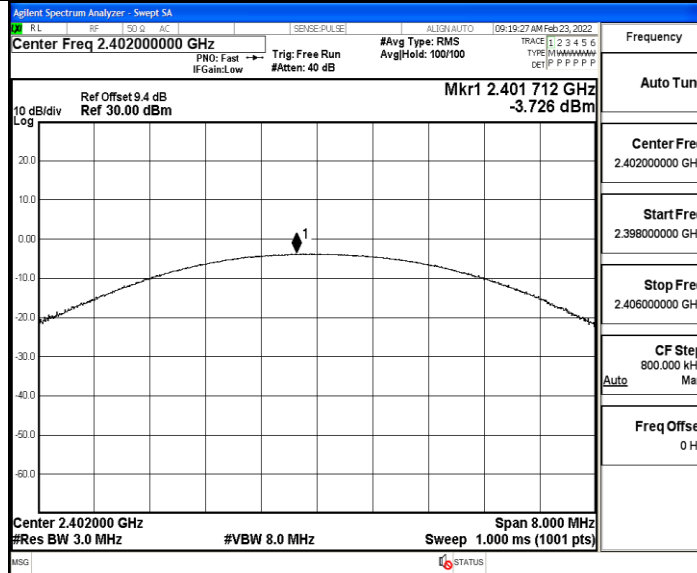


Appendix C: Maximum conducted output power**Test Result**

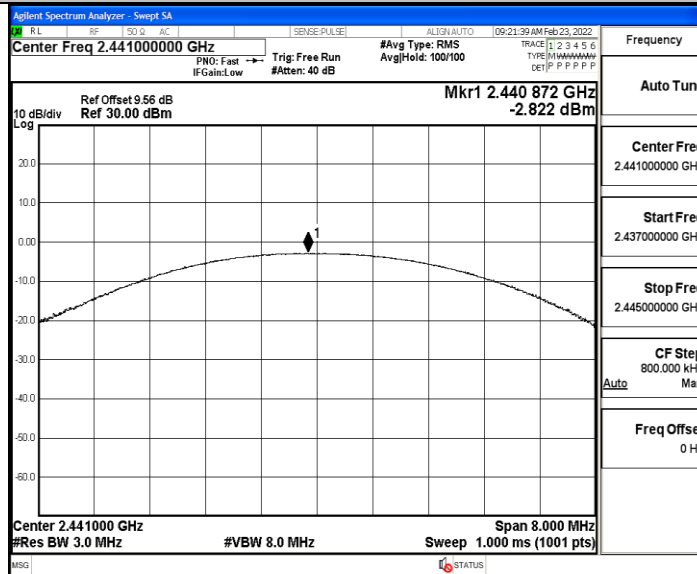
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-3.73	<=30.00	PASS
		2441	-2.82	<=30.00	PASS
		2480	-1.75	<=30.00	PASS
2DH5	Ant1	2402	-3.03	<=20.97	PASS
		2441	-1.98	<=20.97	PASS
		2480	-0.88	<=20.97	PASS

Test Graphs

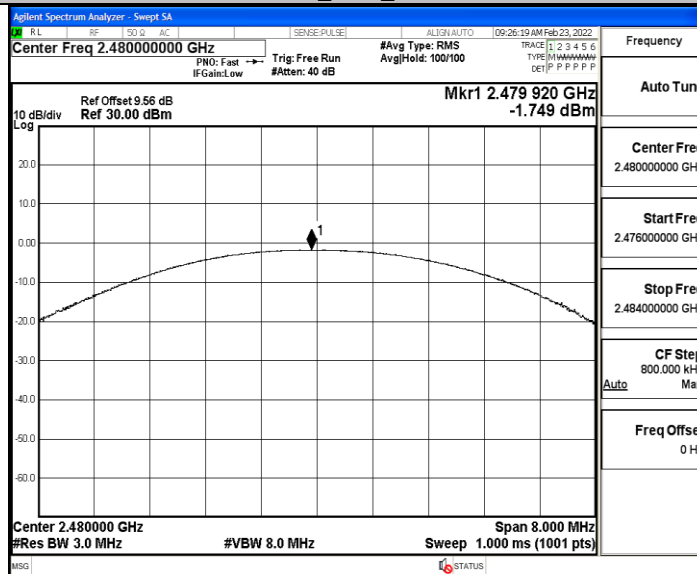
DH5_Ant1_2402



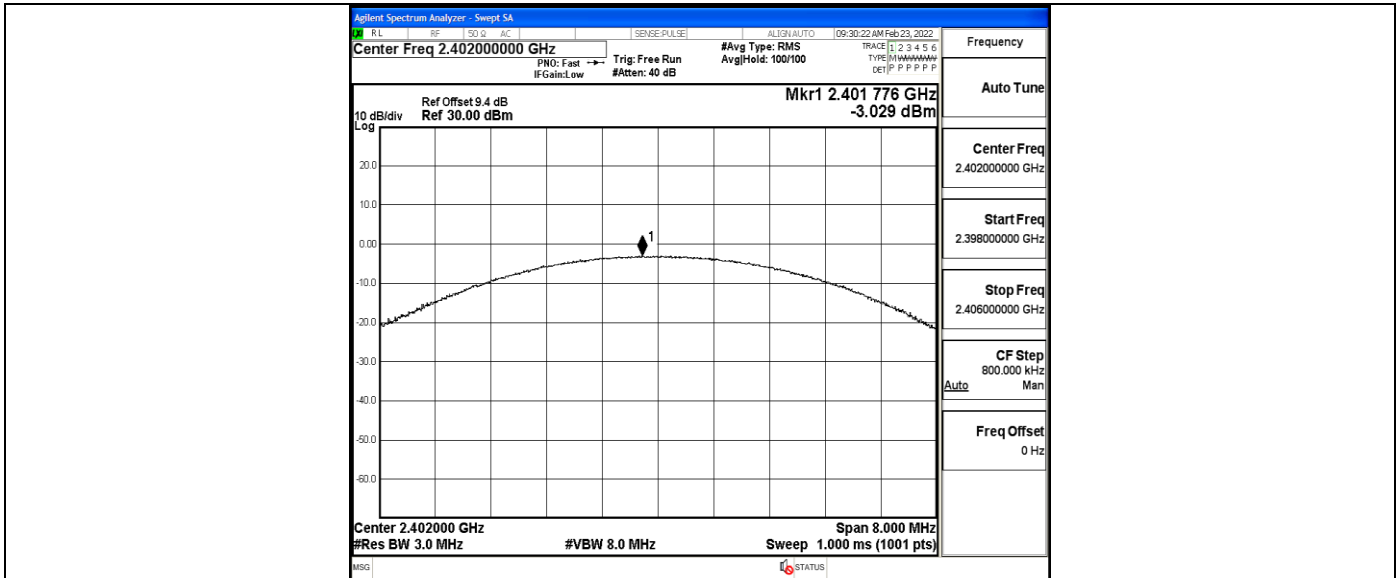
DH5_Ant1_2441



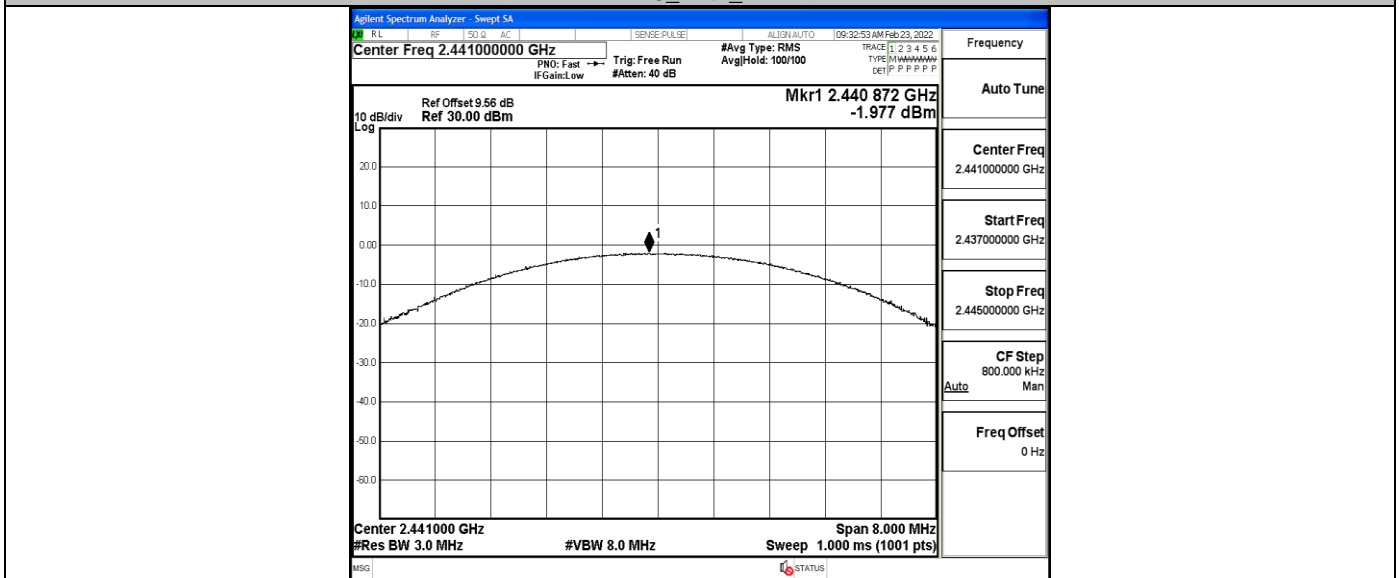
DH5_Ant1_2480



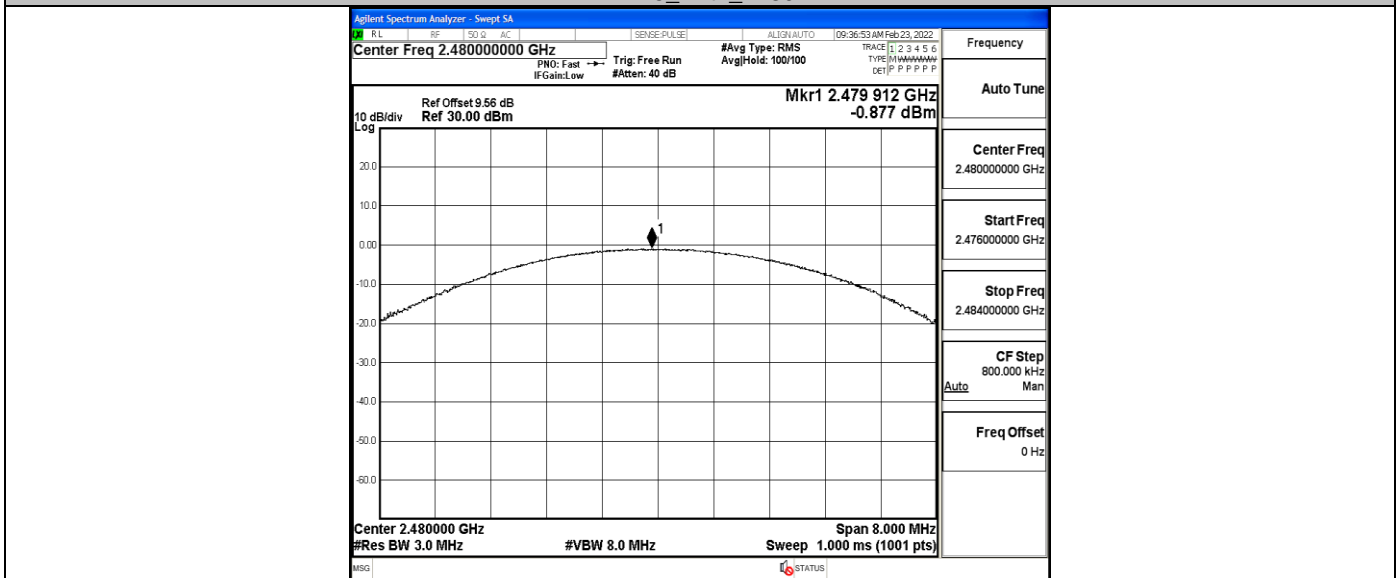
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480

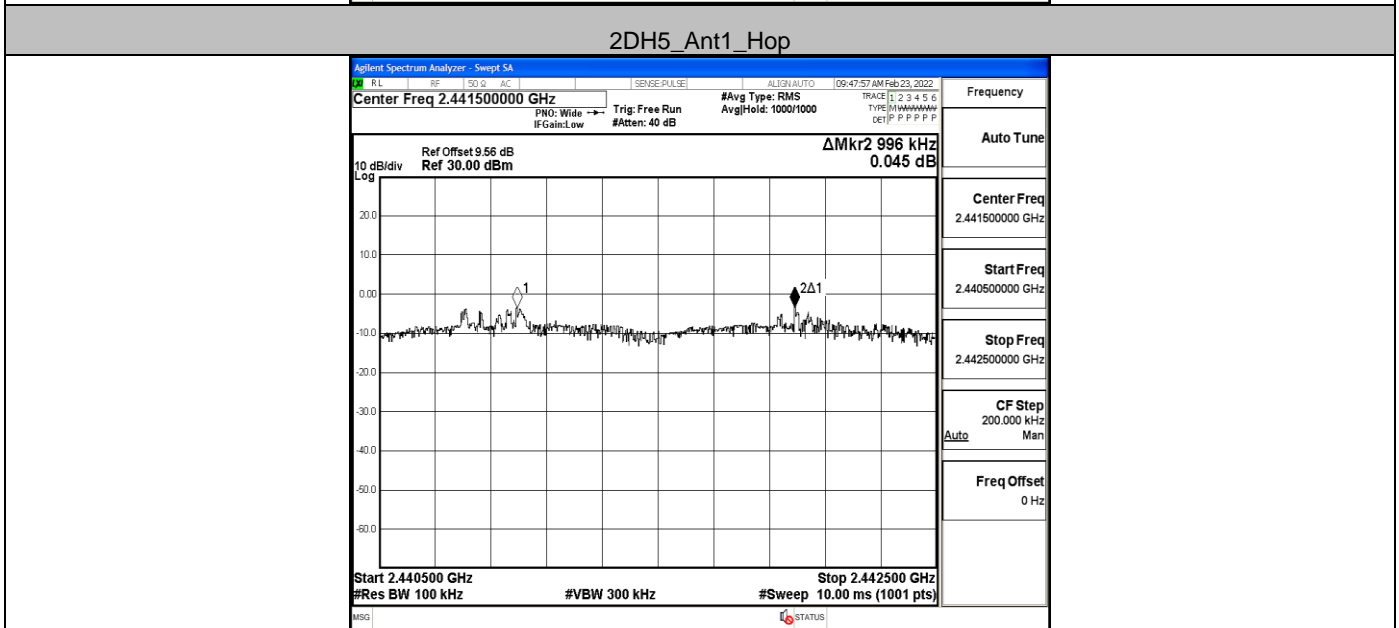
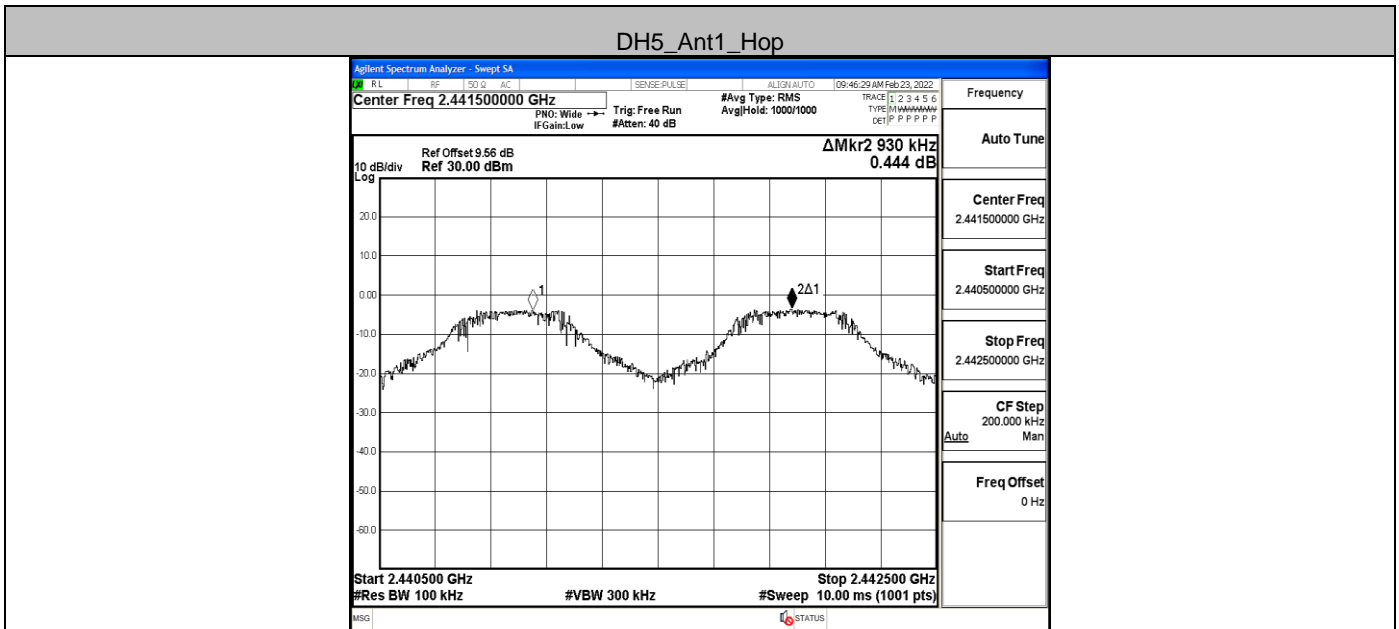


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.93	≥ 0.630	PASS
2DH5	Ant1	Hop	0.996	≥ 0.874	PASS

Test Graphs

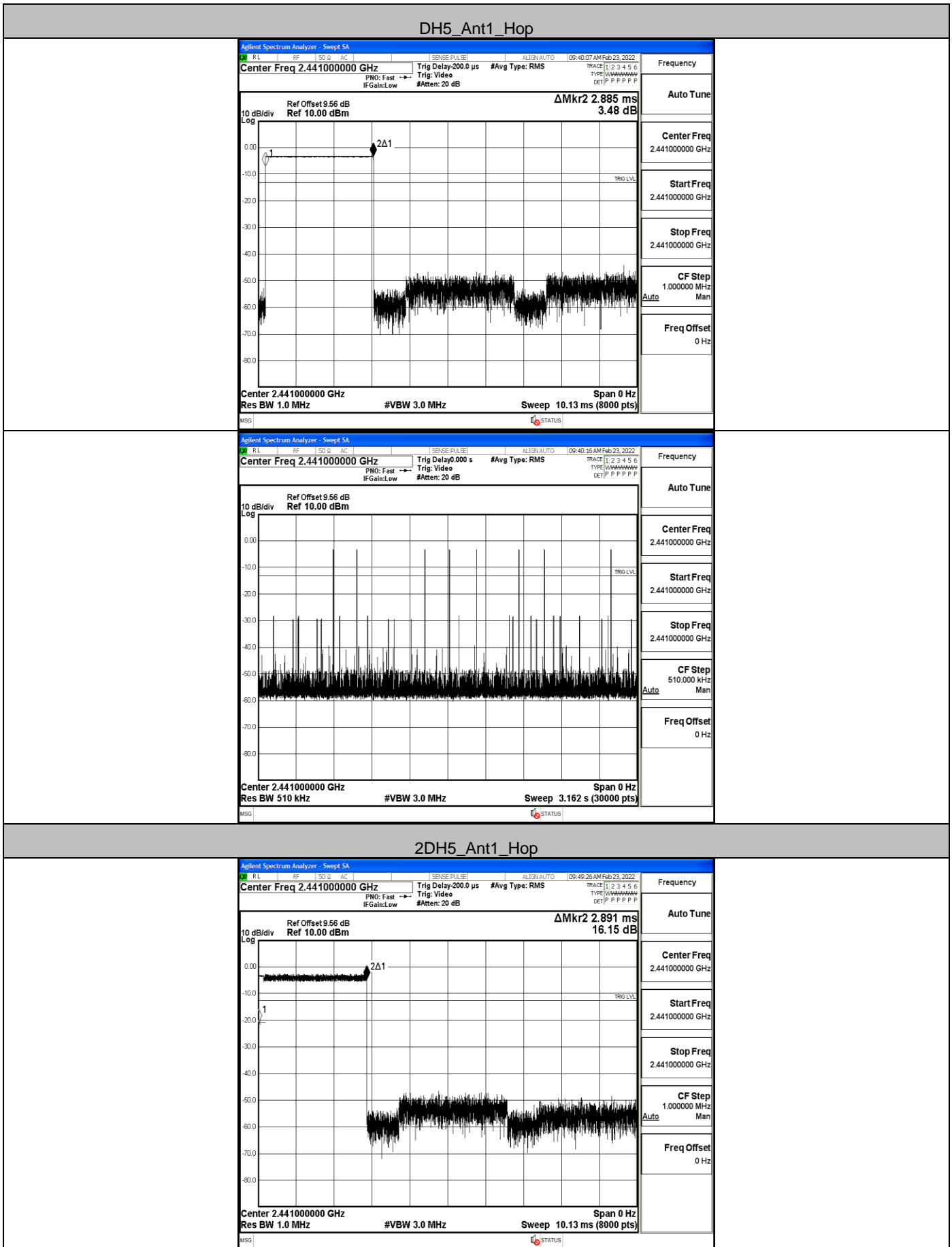


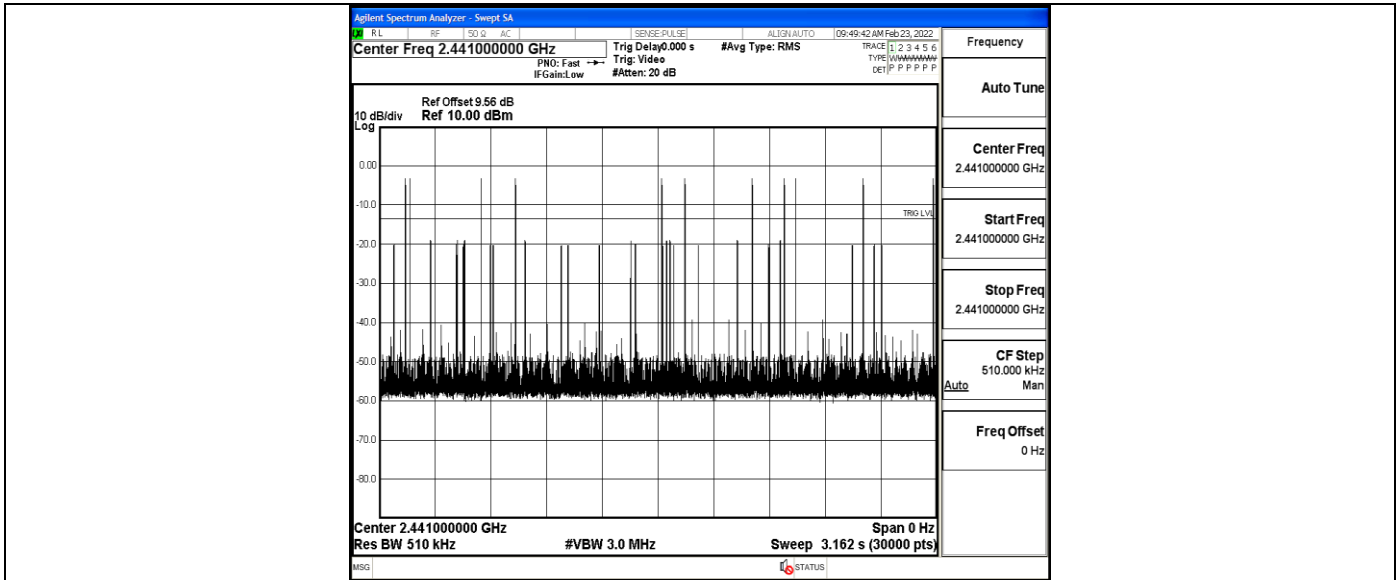
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	90	0.26	<=0.4	PASS
2DH5	Ant1	Hop	2.89	120	0.347	<=0.4	PASS

Test Graphs



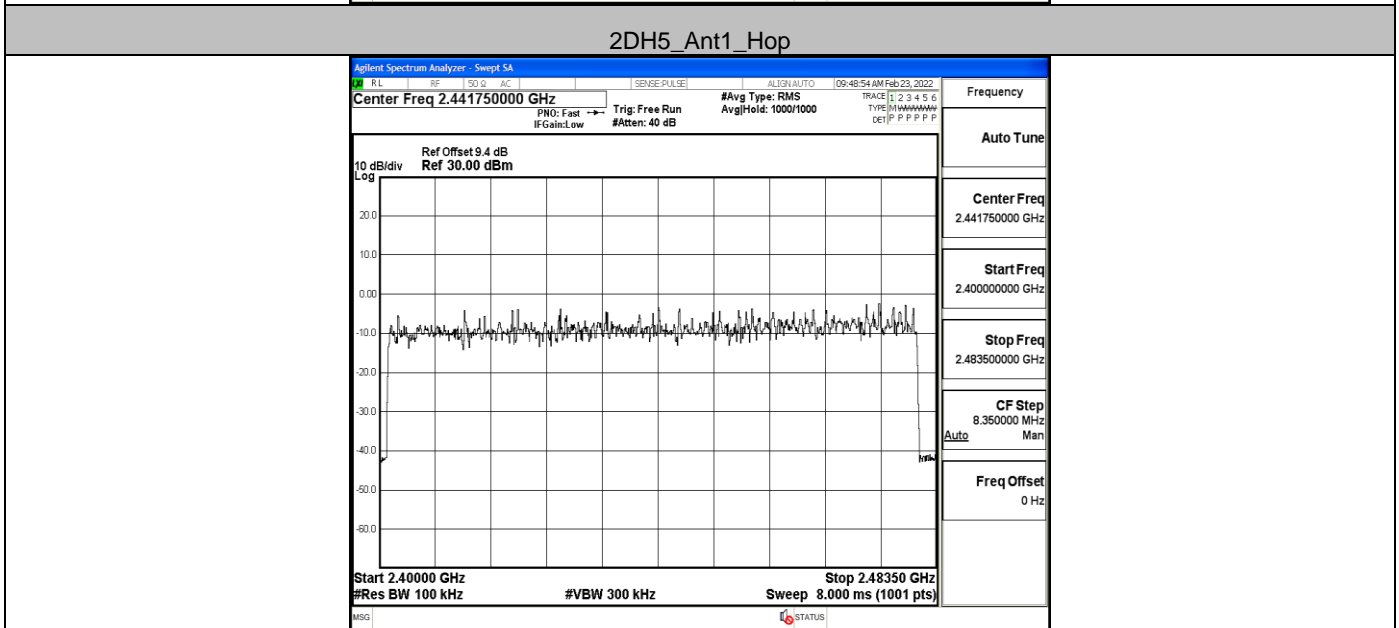
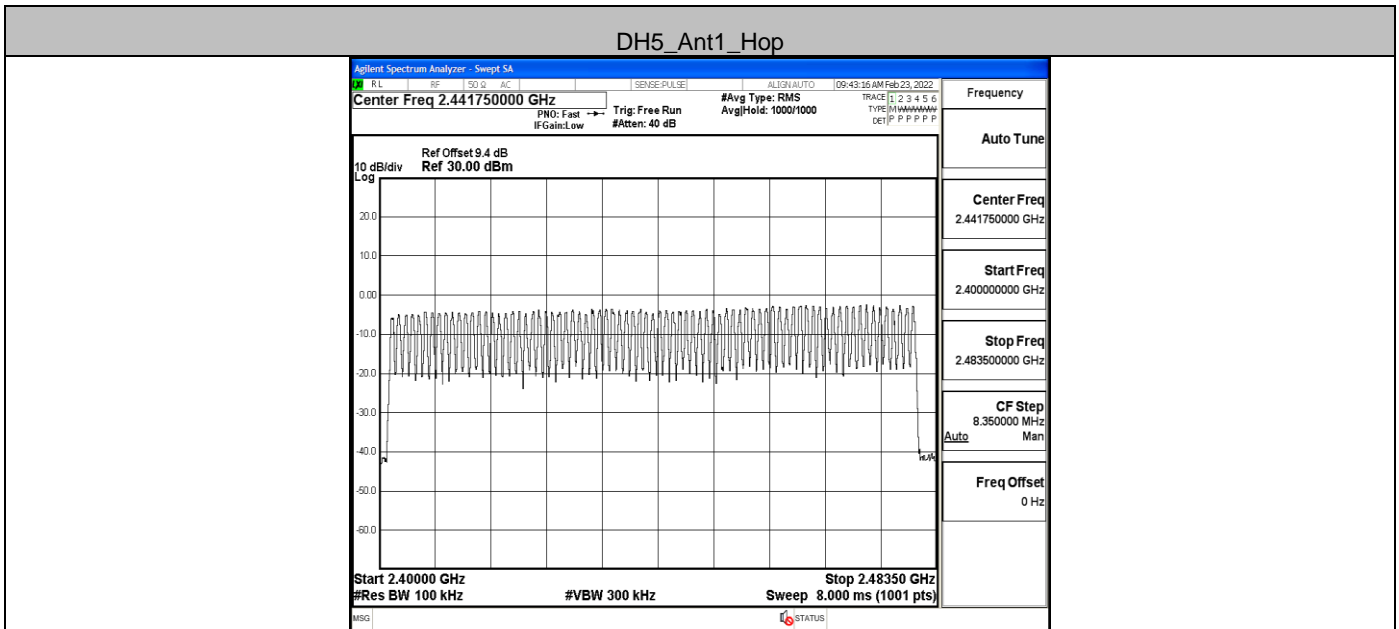


Appendix F: Number of hopping channels

Test Result

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

Test Graphs



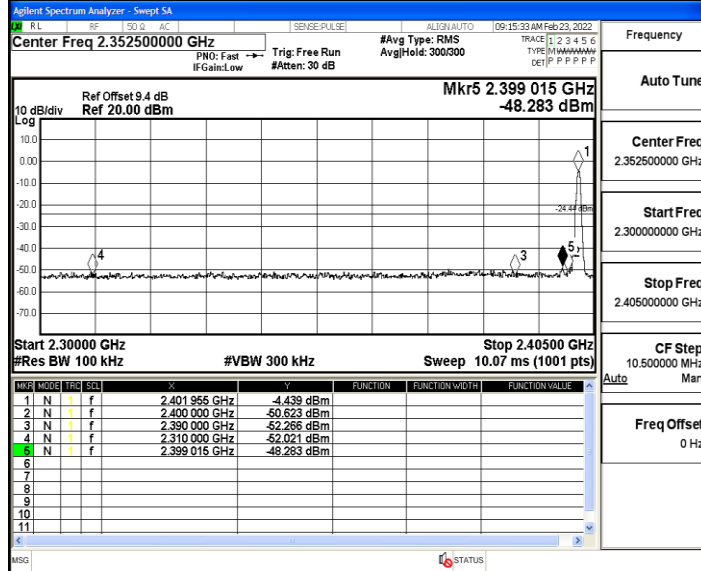
Appendix G: Band edge measurements

Test Result

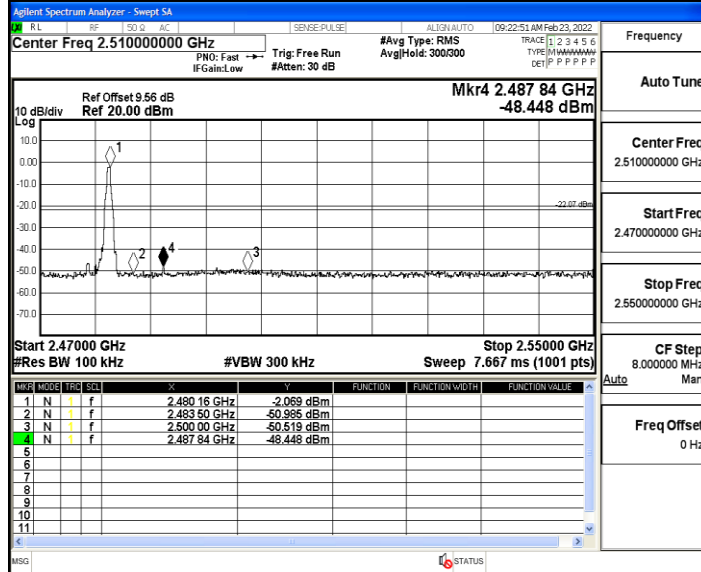
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-4.44	-48.28	≤-24.44	PASS
		High	2480	-2.07	-48.45	≤-22.07	PASS
		Low	Hop_2402	-5.29	-50.28	≤-25.29	PASS
		High	Hop_2480	-2.29	-49.35	≤-22.29	PASS
2DH5	Ant1	Low	2402	-5.05	-48	≤-25.05	PASS
		High	2480	-2.16	-48.45	≤-22.16	PASS
		Low	Hop_2402	-7.76	-50.57	≤-27.76	PASS
		High	Hop_2480	-2.15	-49.42	≤-22.15	PASS

Test Graphs

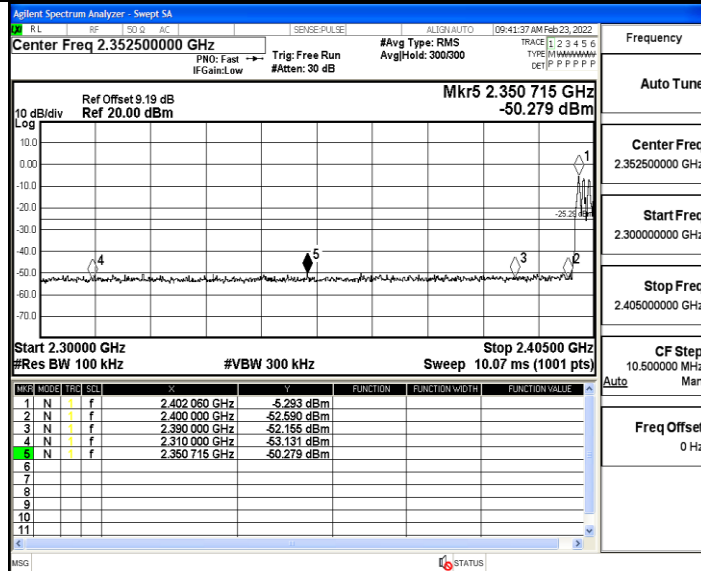
DH5_Ant1_Low_2402



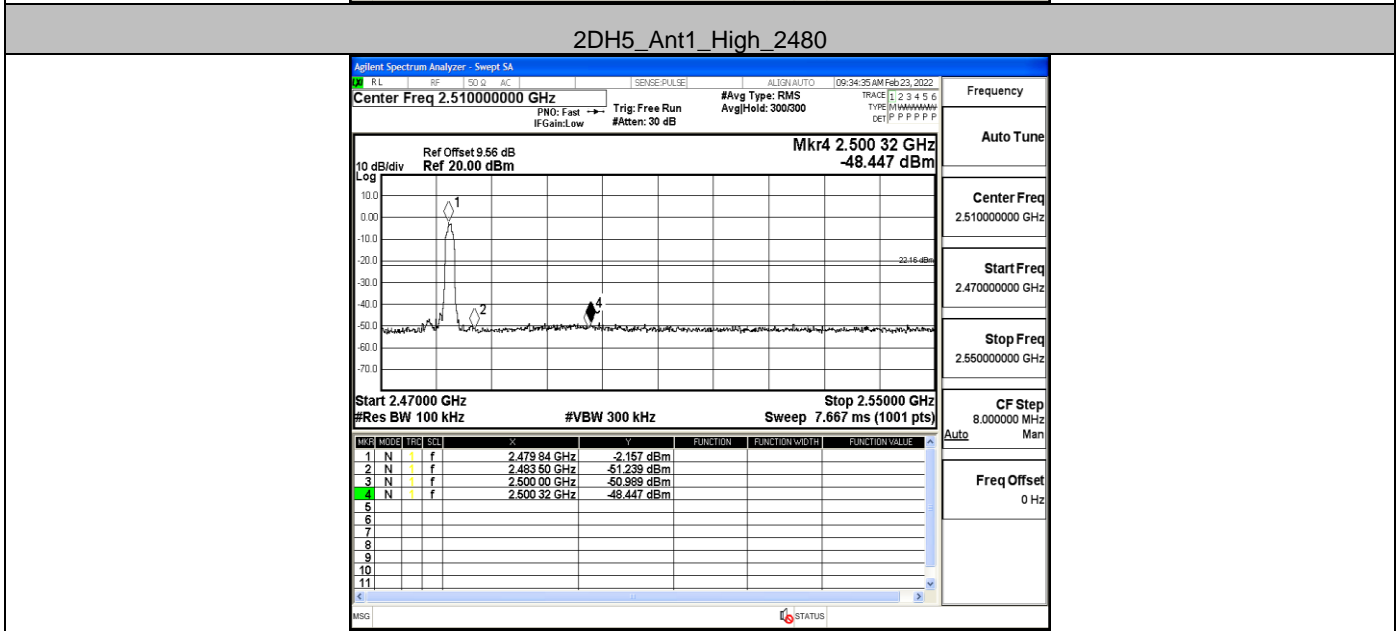
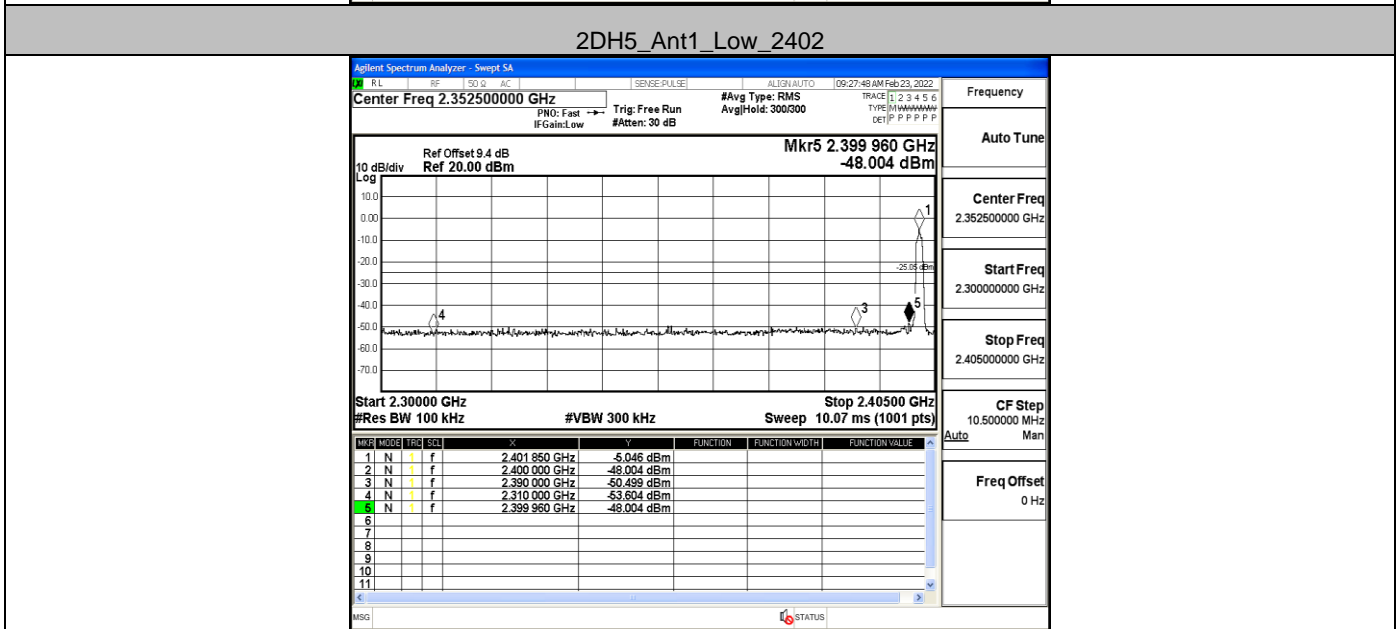
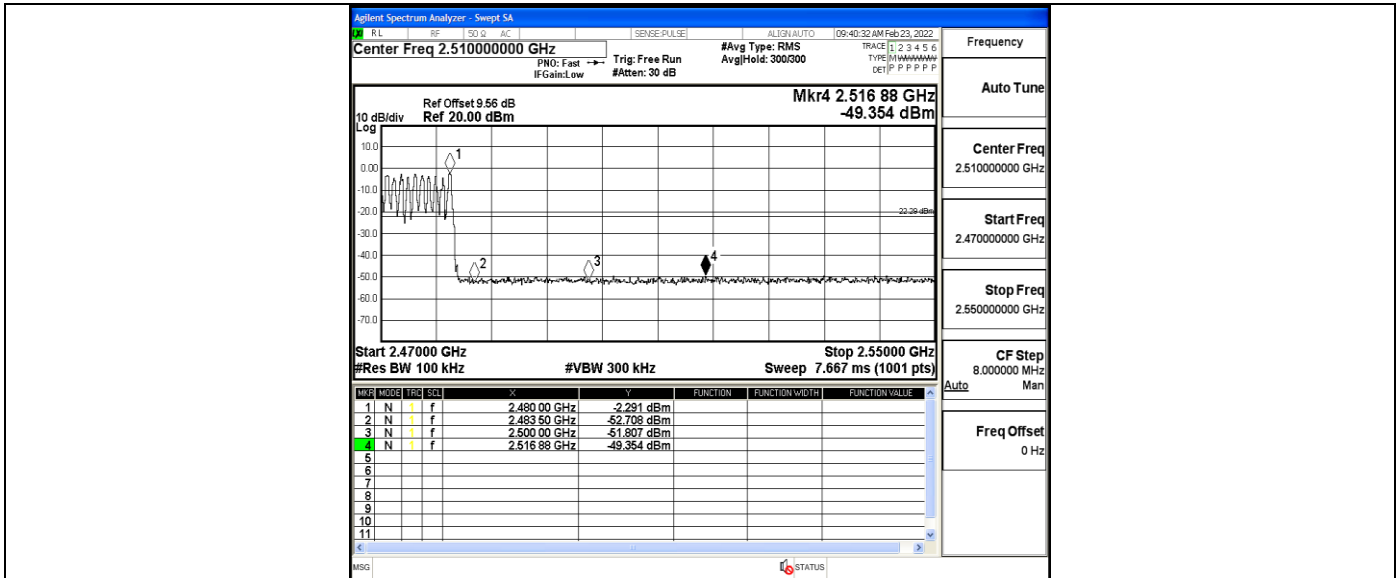
DH5_Ant1_High_2480

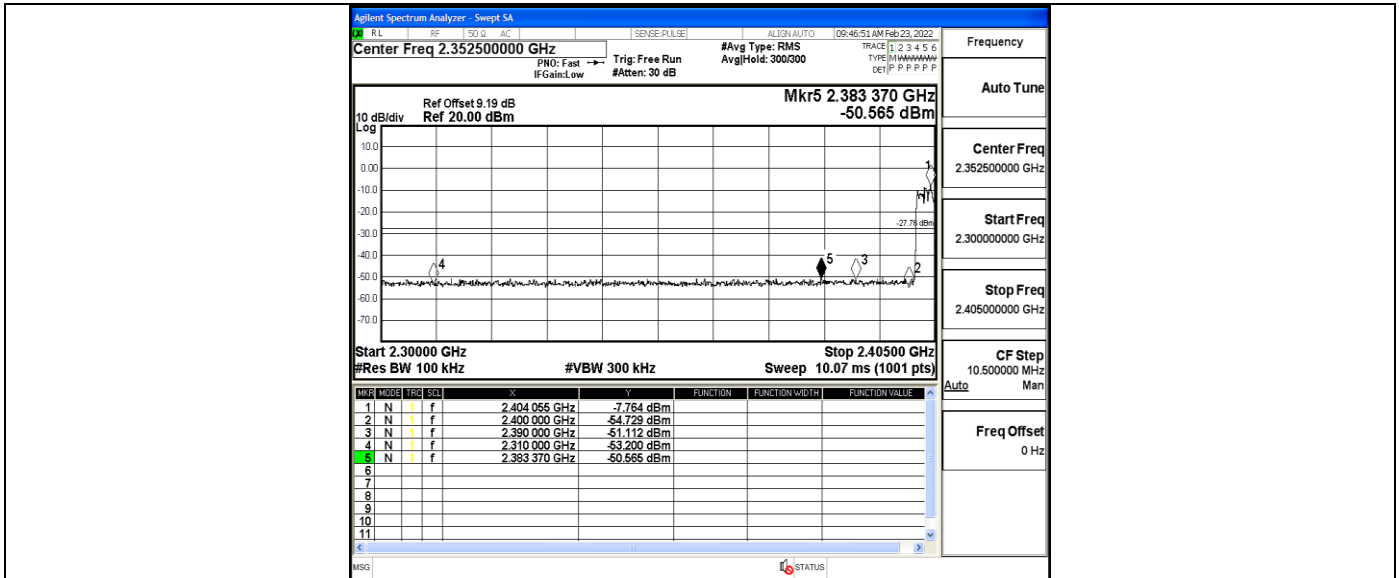


DH5_Ant1_Low_Hop_2402

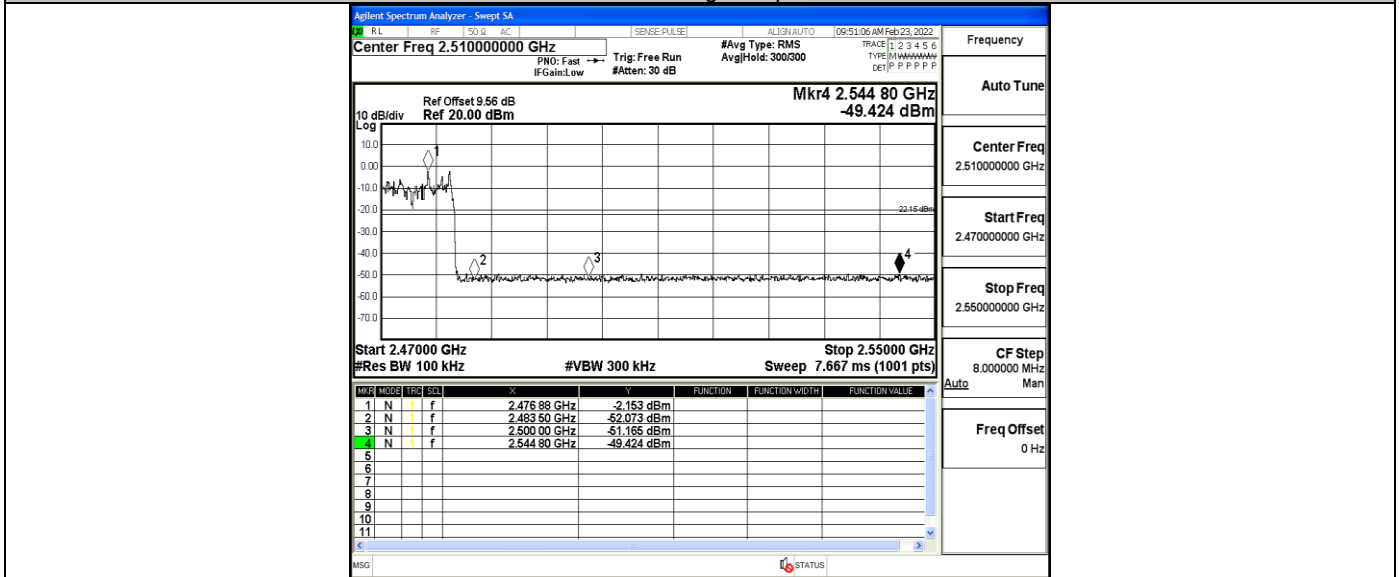


DH5_Ant1_High_Hop_2480





2DH5_Ant1_High_Hop_2480



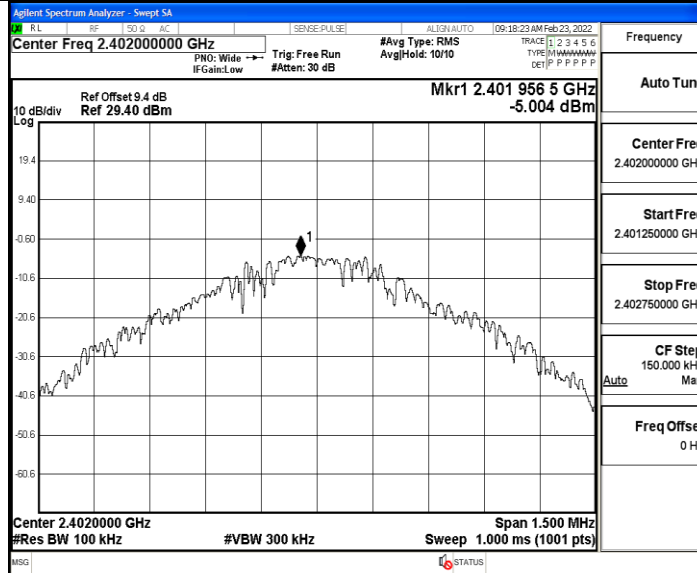
Appendix H: Conducted Spurious Emission

Test Result

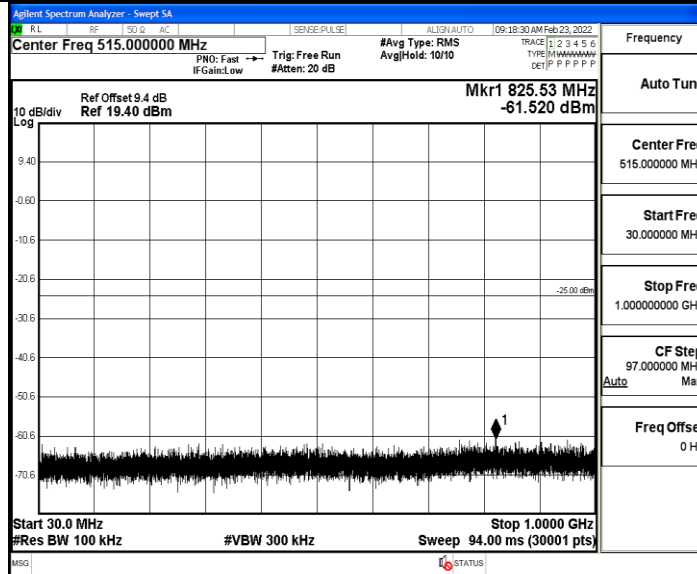
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-5.00	-5.00	---	PASS
			30~1000	-5.00	-61.52	≤-25	PASS
			1000~26500	-5.00	-46.84	≤-25	PASS
		2441	Reference	-4.08	-4.08	---	PASS
			30~1000	-4.08	-61.26	≤-24.08	PASS
			1000~26500	-4.08	-45.65	≤-24.08	PASS
		2480	Reference	-2.75	-2.75	---	PASS
			30~1000	-2.75	-61.48	≤-22.75	PASS
			1000~26500	-2.75	-44.63	≤-22.75	PASS
2DH5	Ant1	2402	Reference	-8.49	-8.49	---	PASS
			30~1000	-8.49	-61.18	≤-28.49	PASS
			1000~26500	-8.49	-48.41	≤-28.49	PASS
		2441	Reference	-3.51	-3.51	---	PASS
			30~1000	-3.51	-60.62	≤-23.51	PASS
			1000~26500	-3.51	-46	≤-23.51	PASS
		2480	Reference	-6.12	-6.12	---	PASS
			30~1000	-6.12	-61.14	≤-26.12	PASS
			1000~26500	-6.12	-45.09	≤-26.12	PASS

Test Graphs

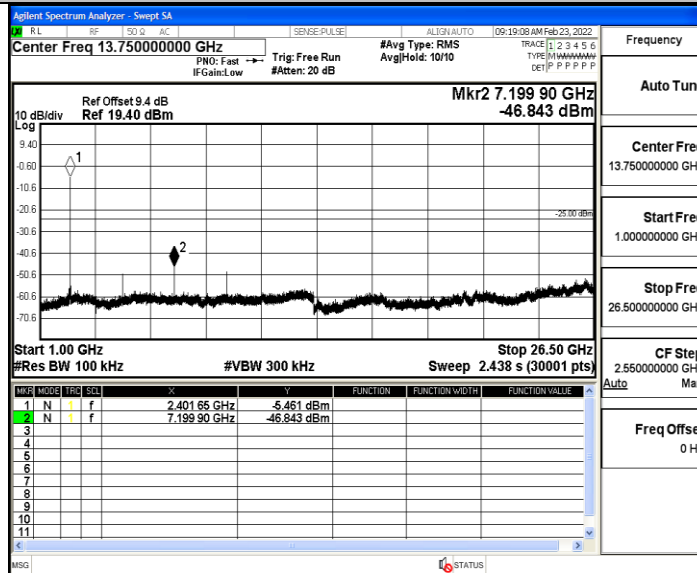
DH5_Ant1_2402_0~Reference



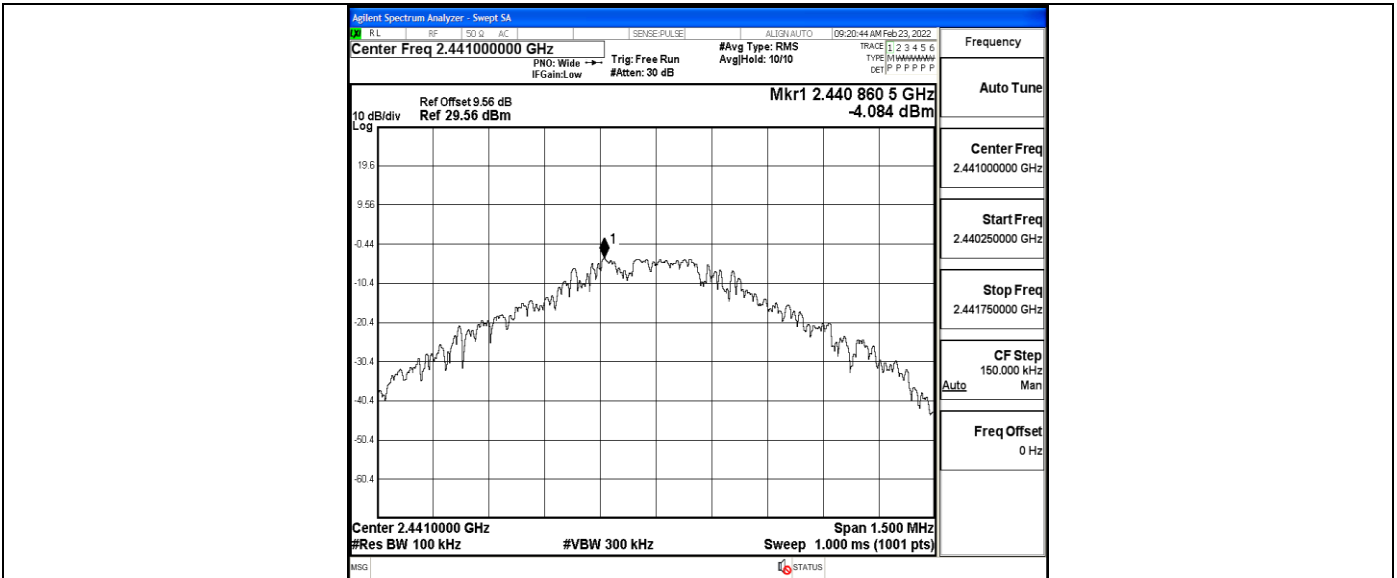
DH5_Ant1_2402_30~1000



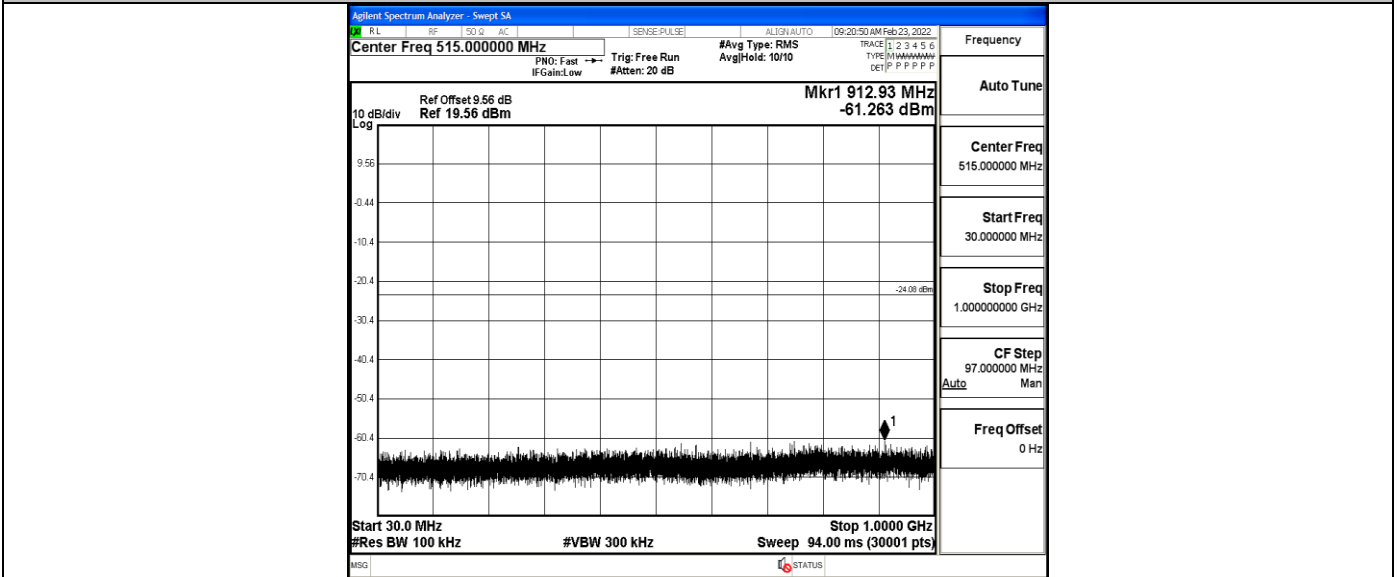
DH5_Ant1_2402_1000~26500



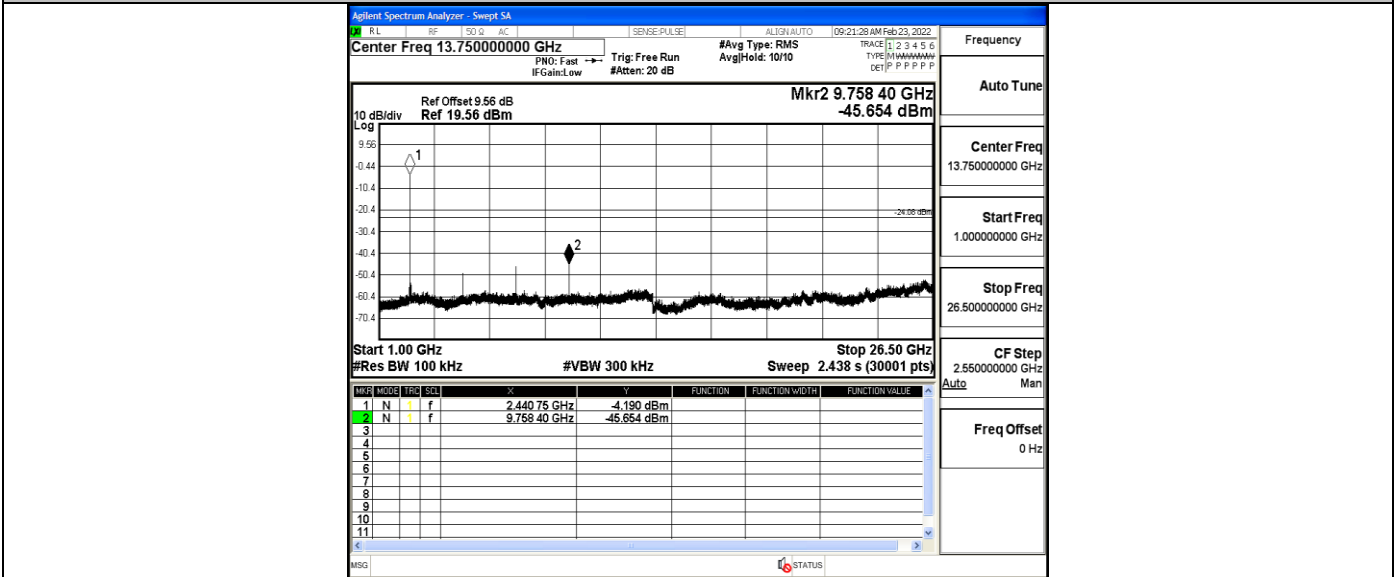
DH5_Ant1_2441_0~Reference



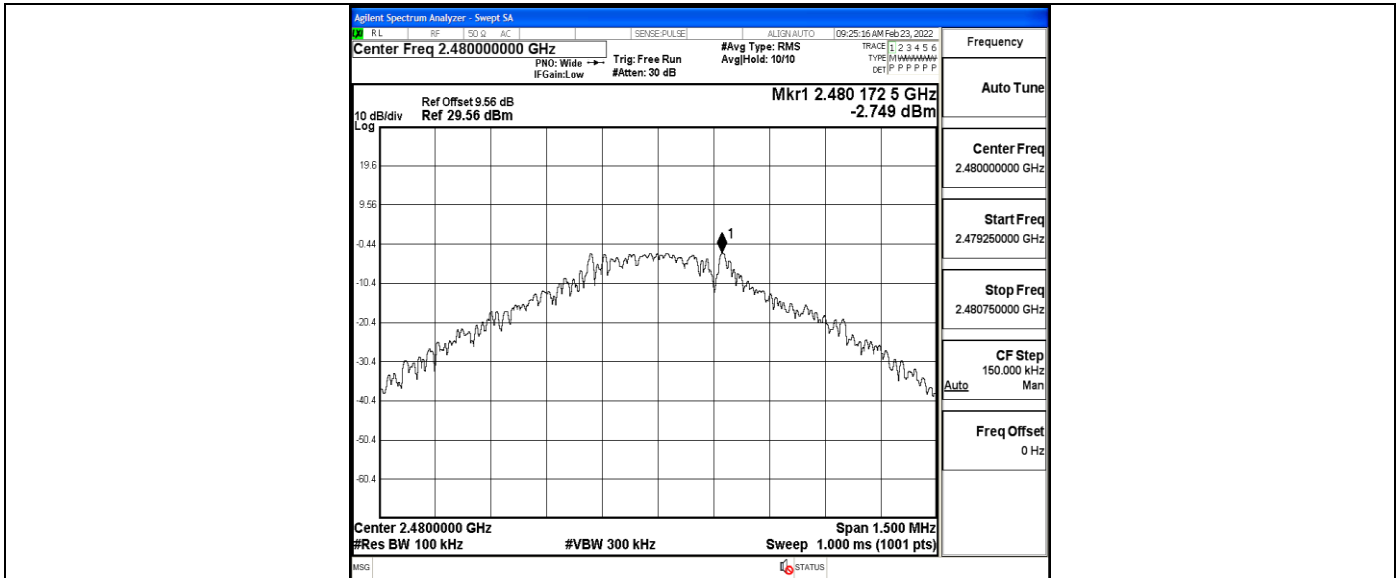
DH5_Ant1_2441_30~1000



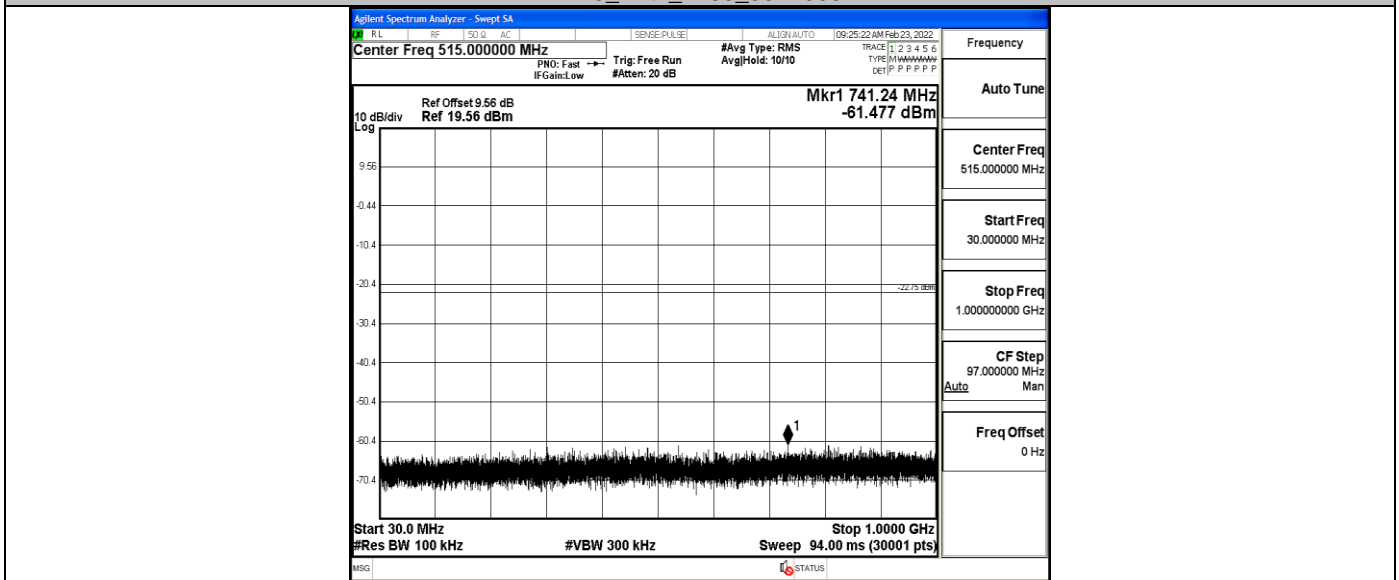
DH5_Ant1_2441_1000~26500



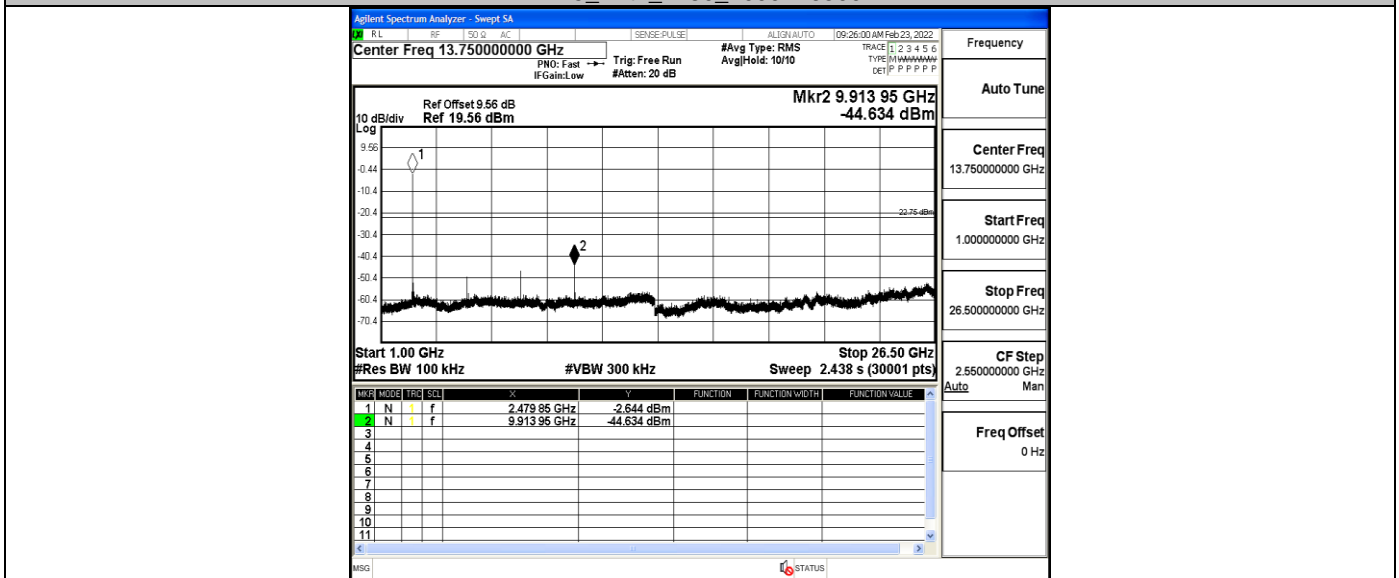
DH5_Ant1_2480_0-Reference



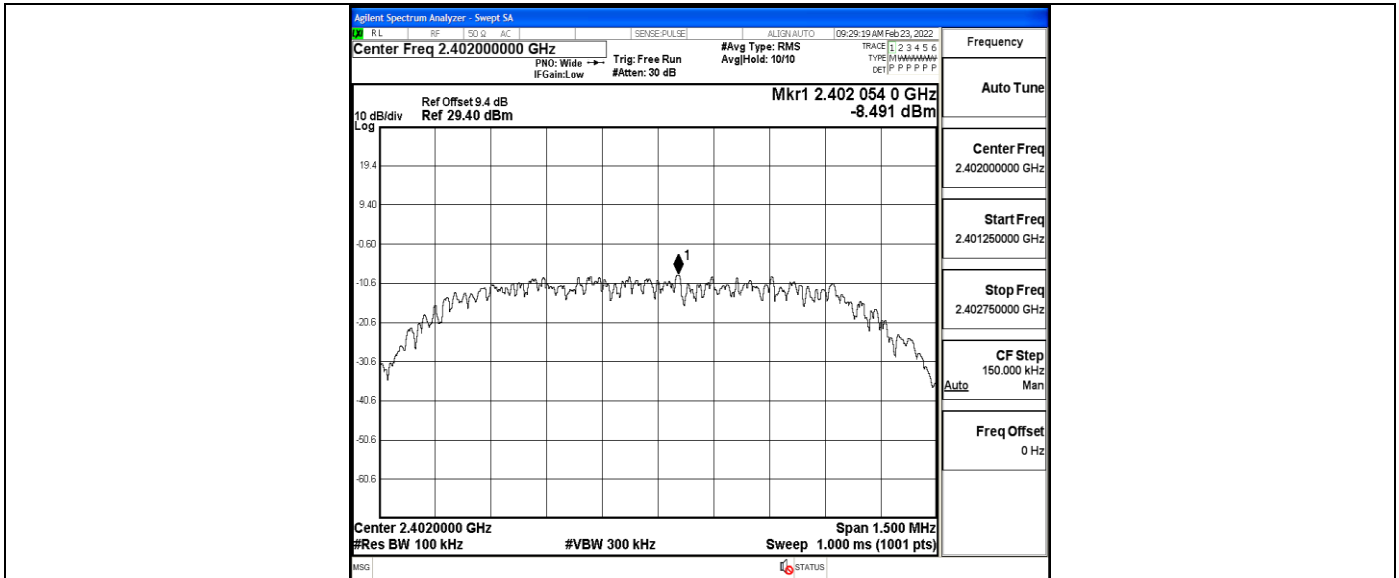
DH5_Ant1_2480_30~1000



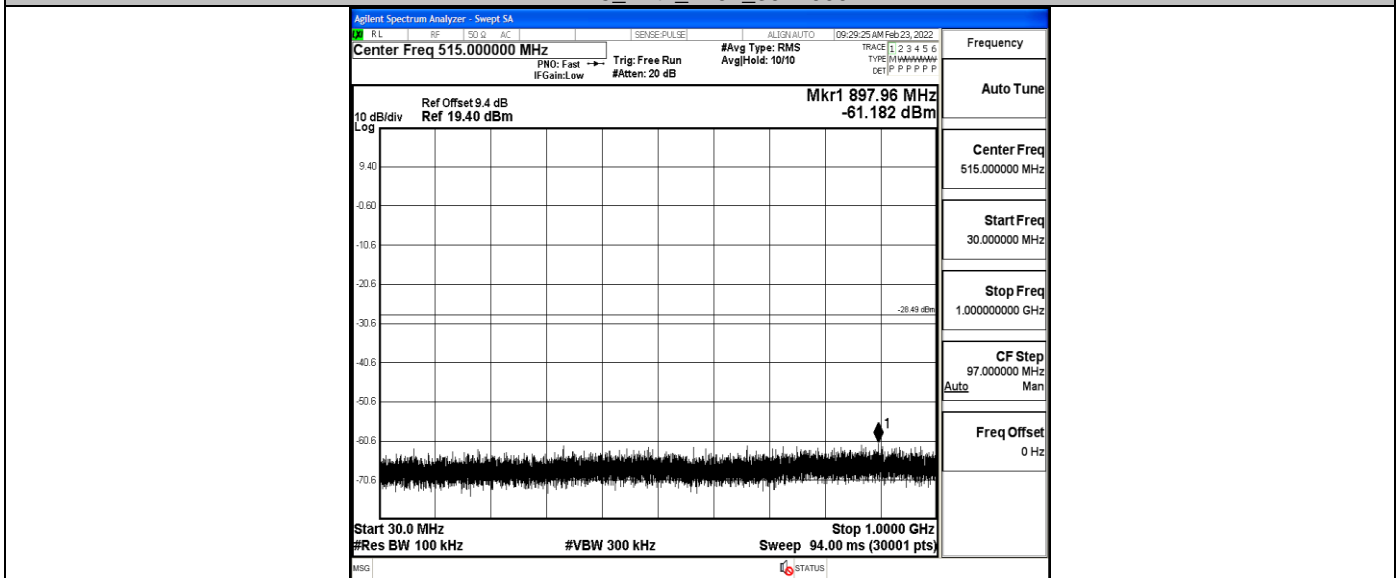
DH5_Ant1_2480_1000~26500



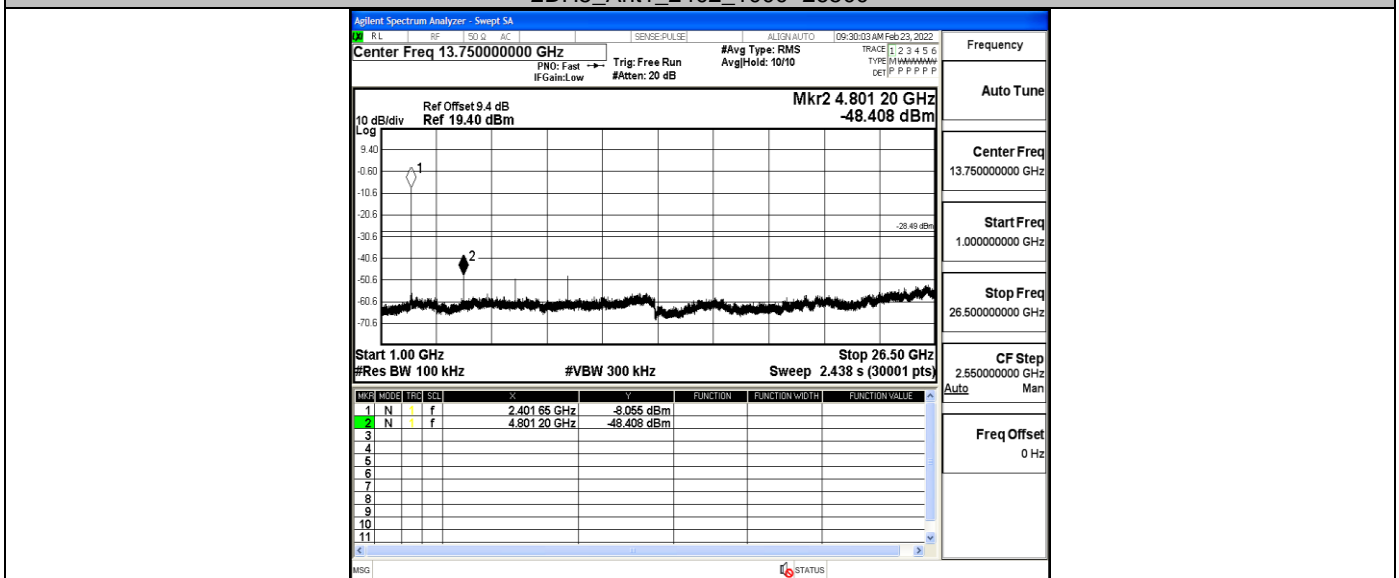
2DH5_Ant1_2402_0~Reference



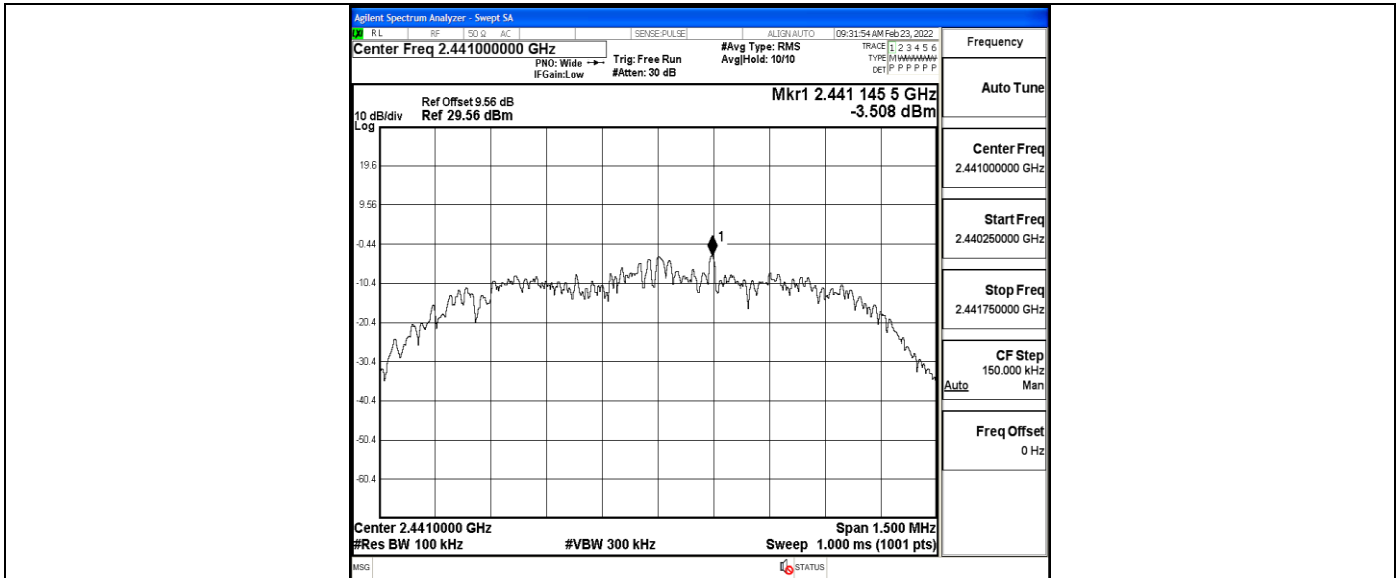
2DH5_Ant1_2402_30~1000



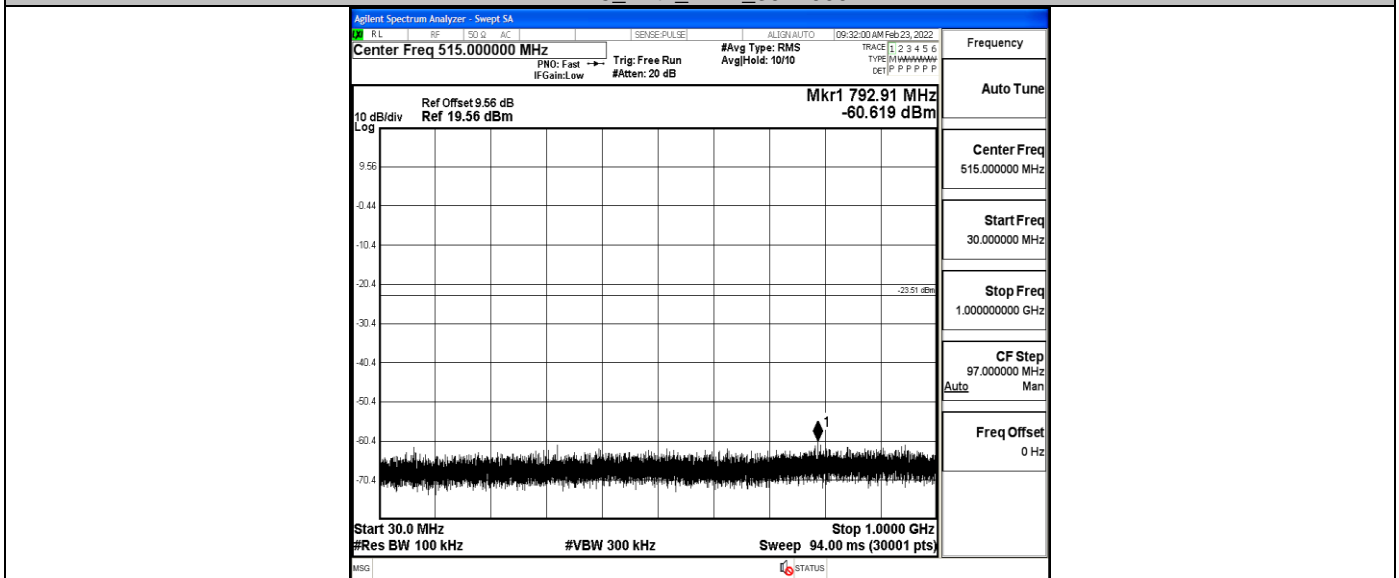
2DH5_Ant1_2402_1000~26500



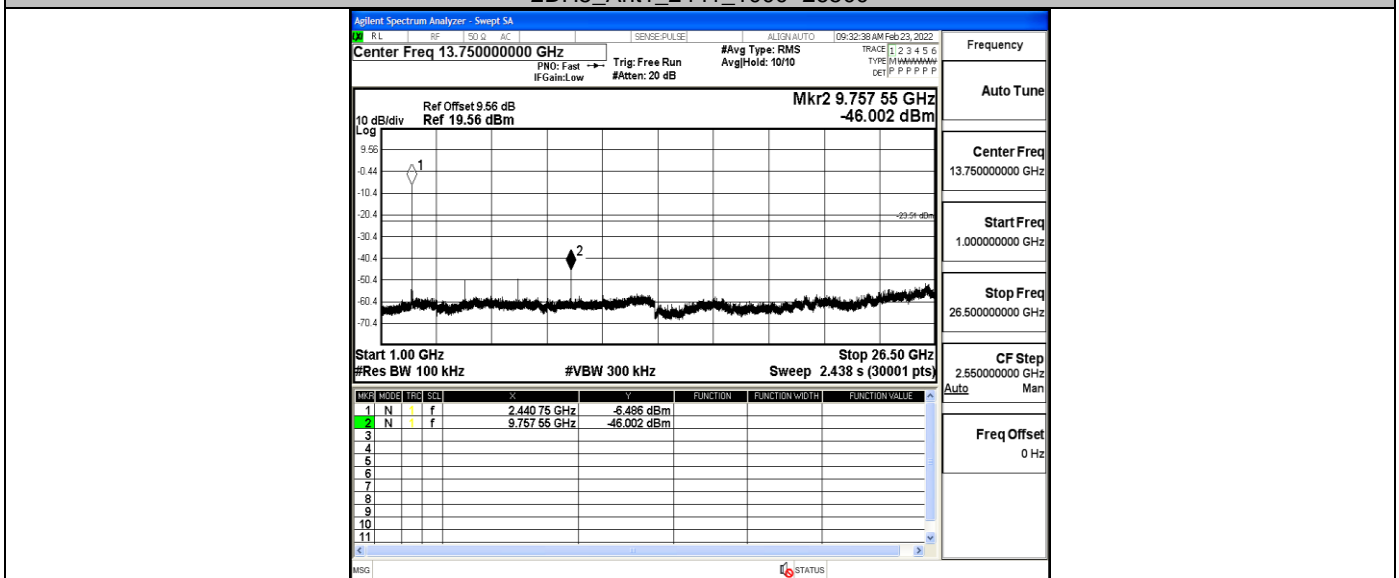
2DH5_Ant1_2441_0~Reference



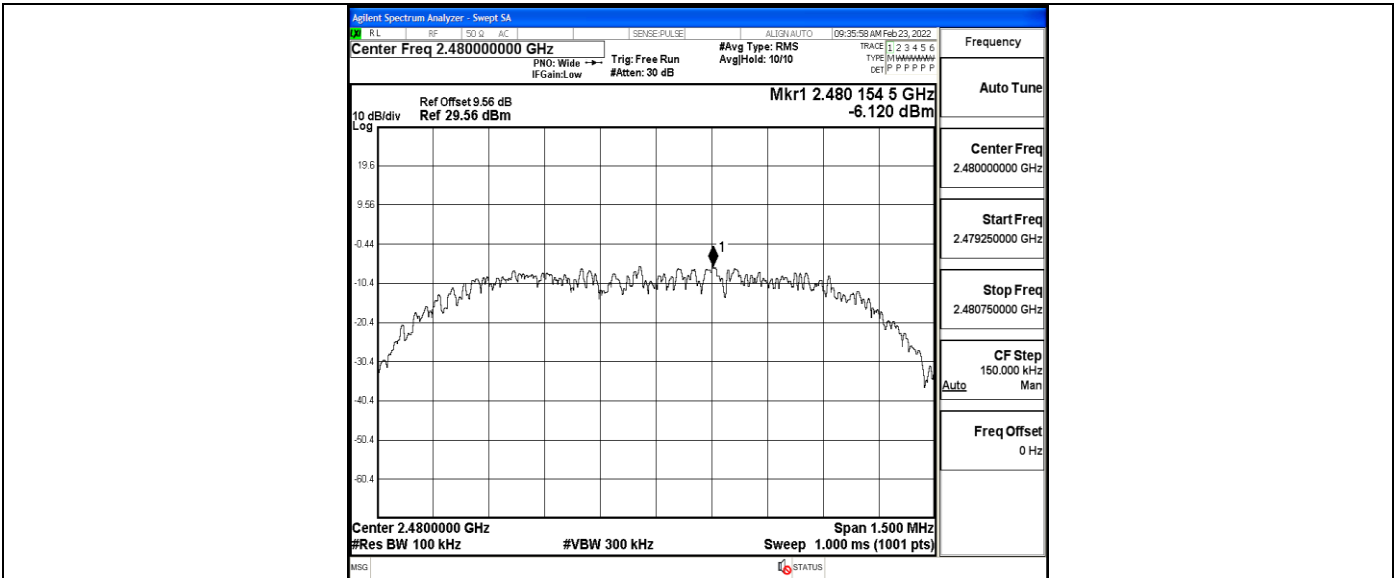
2DH5_Ant1_2441_30~1000



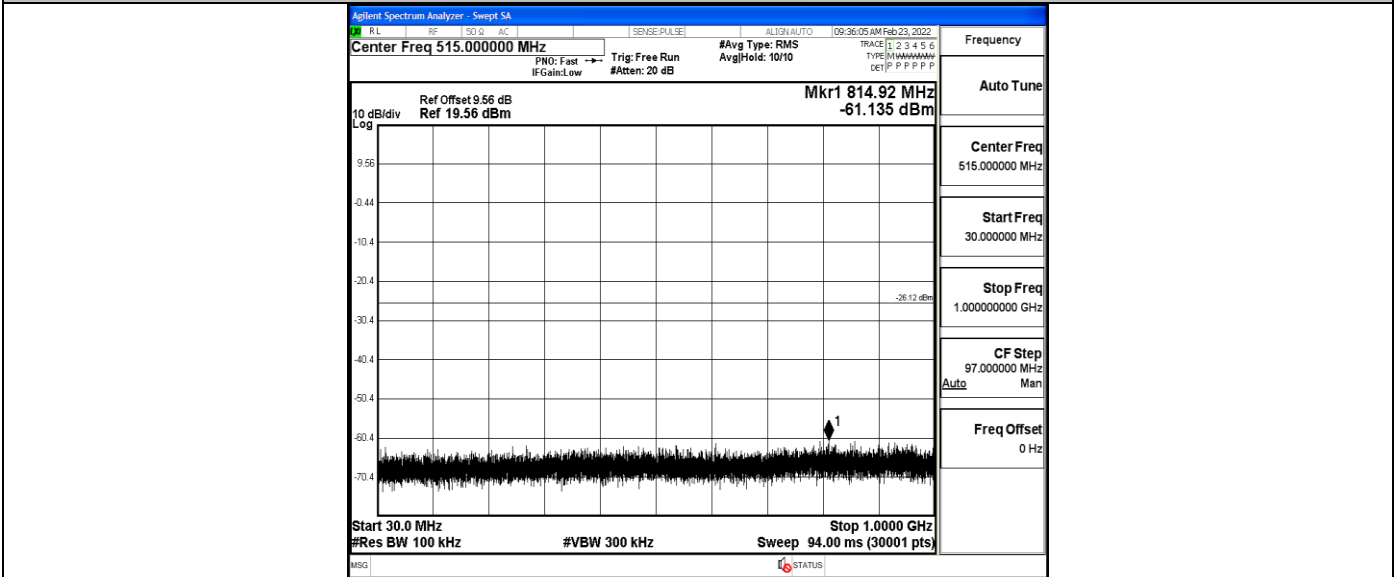
2DH5_Ant1_2441_1000~26500



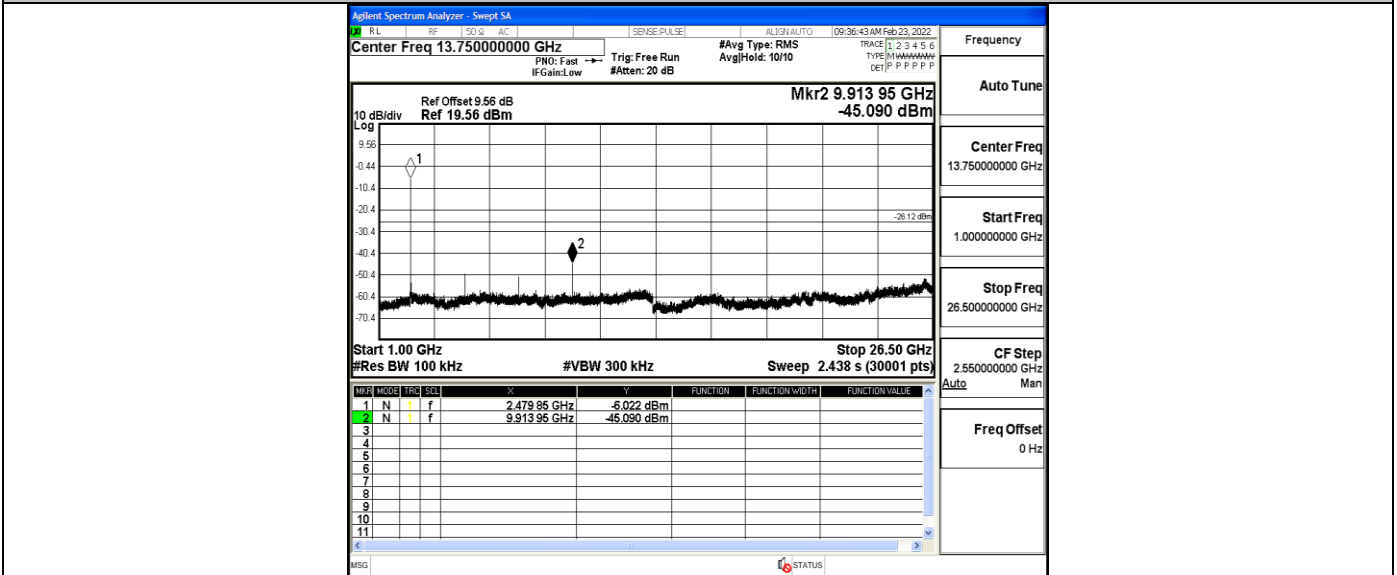
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



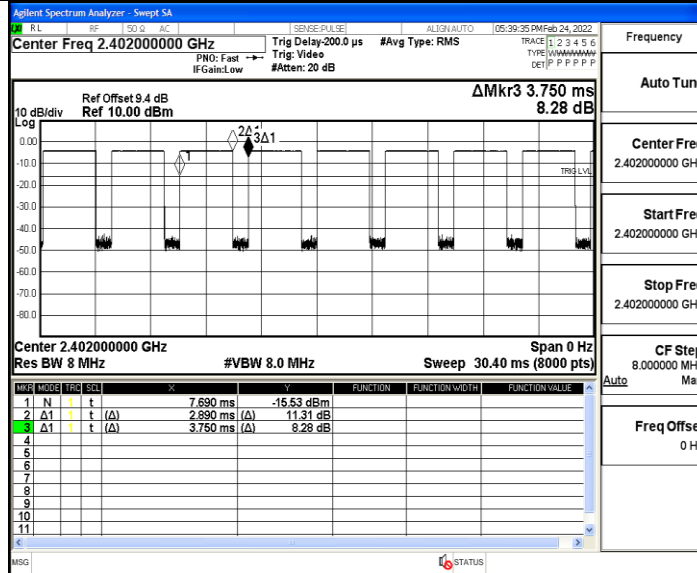
Appendix I: Duty Cycle

Test Result

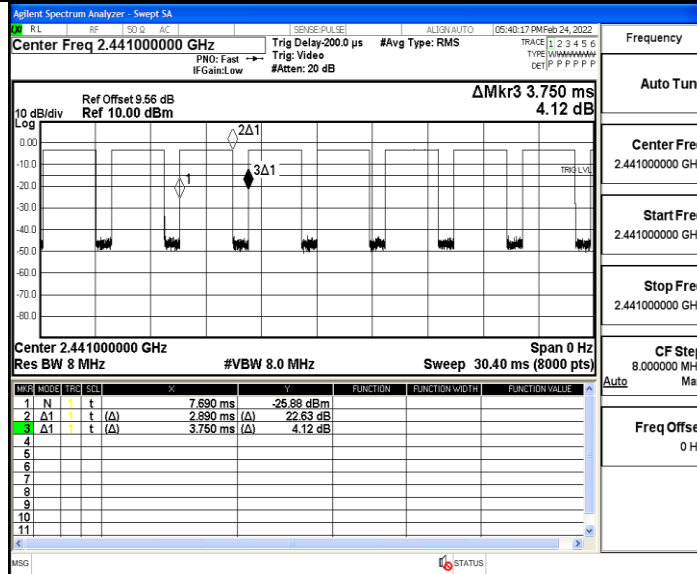
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/B [kHz]
DH5	Ant1	2402	2.89	3.75	77.07	0.35
		2441	2.89	3.75	77.07	0.35
		2480	2.89	3.75	77.07	0.35
2DH5	Ant1	2402	2.90	3.75	77.33	0.34
		2441	2.90	3.75	77.33	0.34
		2480	2.90	3.75	77.33	0.34

Test Graphs

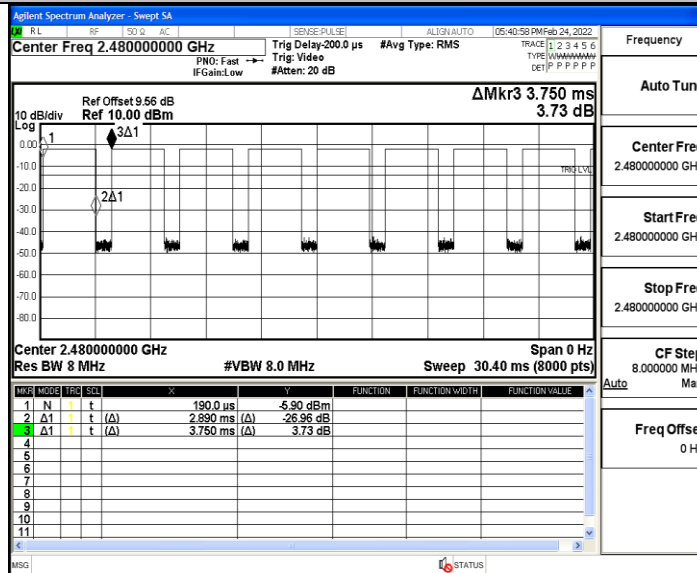
DH5_Ant1_2402



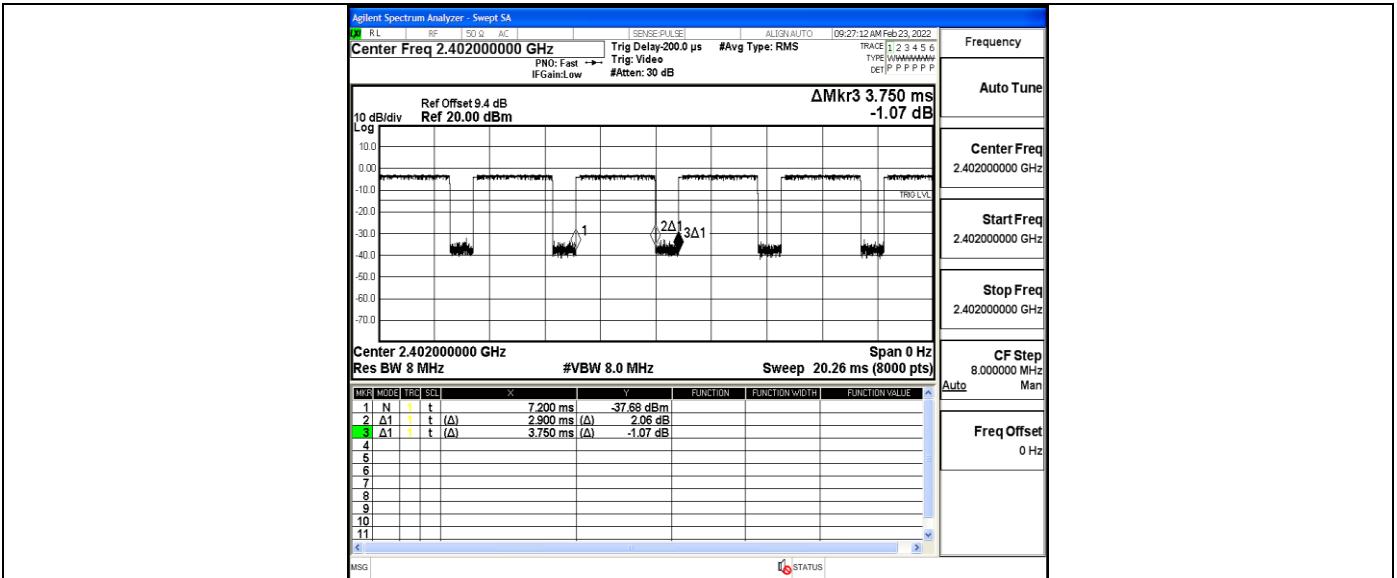
DH5_Ant1_2441



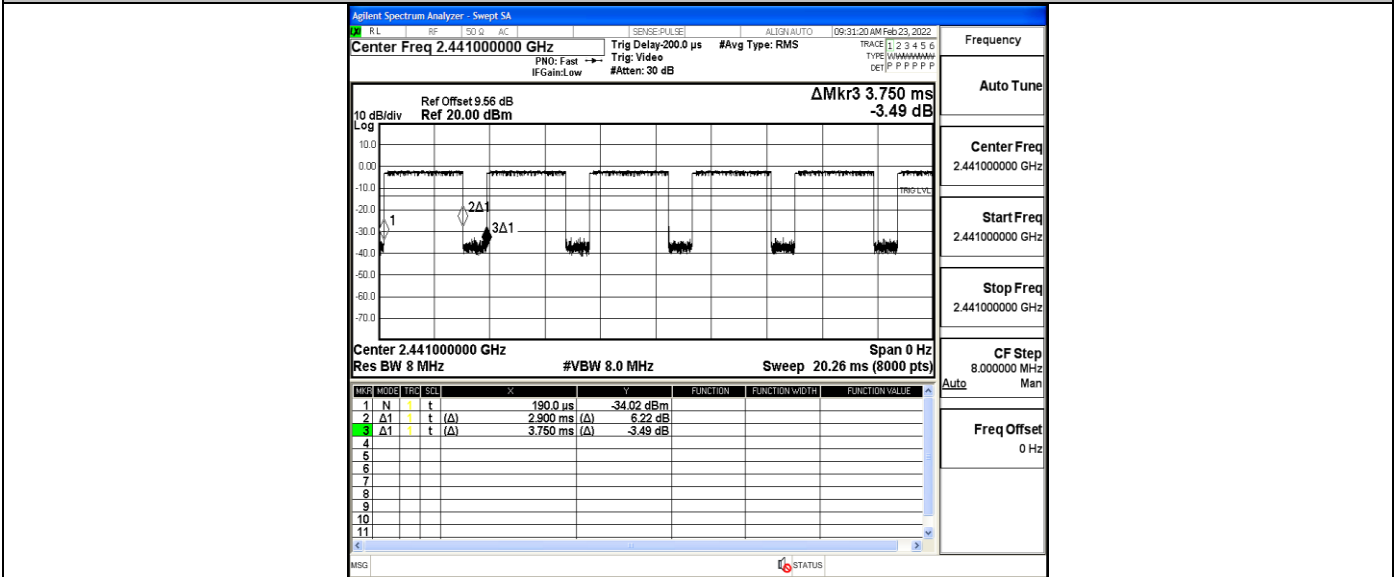
DH5_Ant1_2480



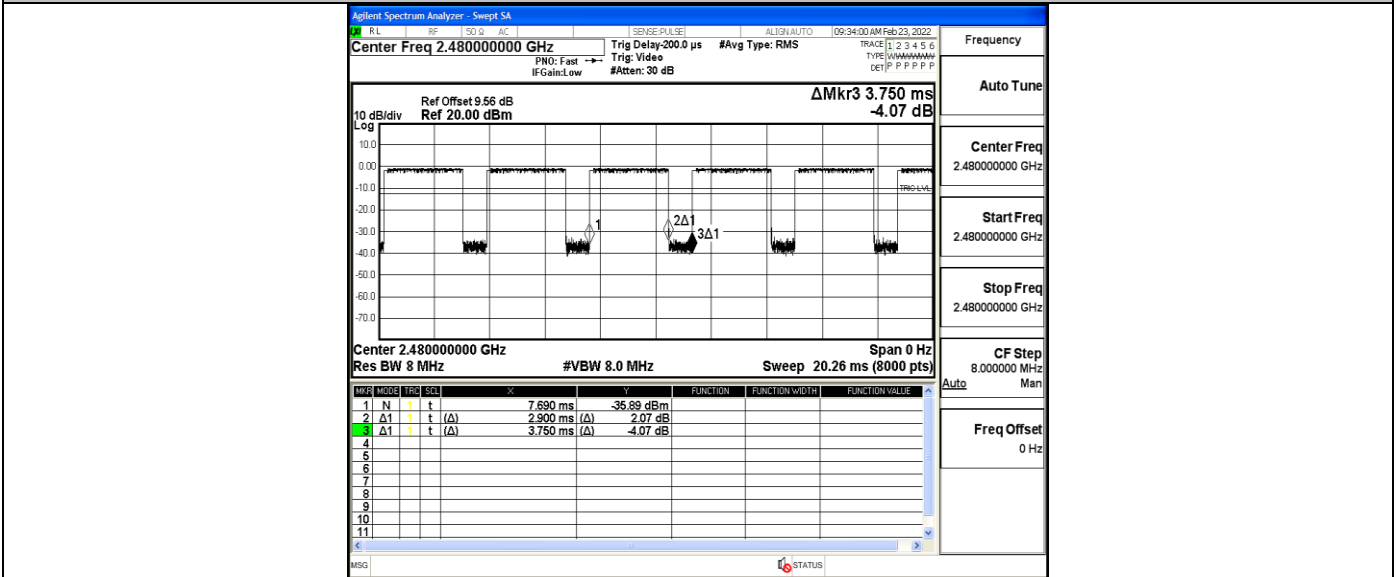
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix J: Emissions in Restricted Bands

Test Result

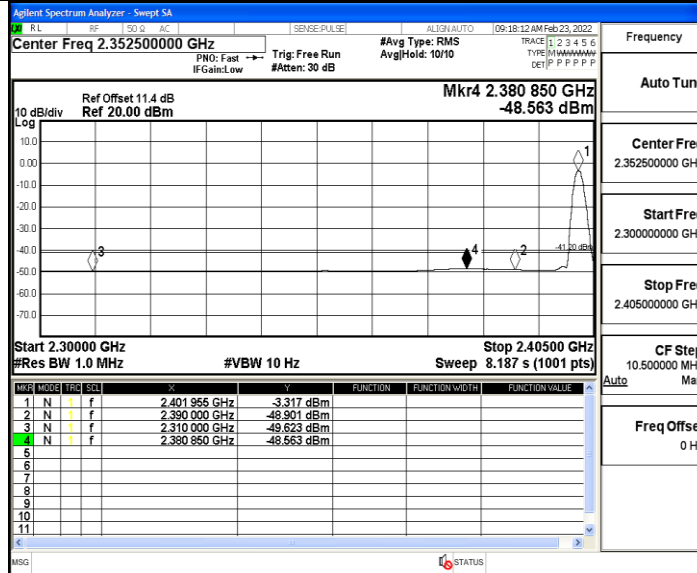
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.62	≤-41.20	PASS
				AV	2380.850	-48.56	≤-41.20	PASS
				AV	2390.000	-48.9	≤-41.20	PASS
				Peak	2310.000	-43.75	≤-21.20	PASS
				Peak	2319.845	-39.43	≤-21.20	PASS
				Peak	2390.000	-43.32	≤-21.20	PASS
		High	2480	AV	2483.500	-48.17	≤-41.20	PASS
				AV	2498.960	-47.18	≤-41.20	PASS
				AV	2500.000	-47.2	≤-41.20	PASS
				Peak	2483.500	-43.69	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.23	≤-41.20	PASS
				AV	2379.275	-47.85	≤-41.20	PASS
				AV	2390.000	-48.54	≤-41.20	PASS
				Peak	2310.000	-41.46	≤-21.20	PASS
				Peak	2331.290	-38.64	≤-21.20	PASS
				Peak	2390.000	-41.94	≤-21.20	PASS
		High	2480	AV	2483.500	-48.01	≤-41.20	PASS
				AV	2499.040	-46.49	≤-41.20	PASS
				AV	2500.000	-46.81	≤-41.20	PASS
				Peak	2483.500	-42.09	≤-21.20	PASS
				Peak	2498.720	-36.94	≤-21.20	PASS
				Peak	2500.000	-40.55	≤-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.

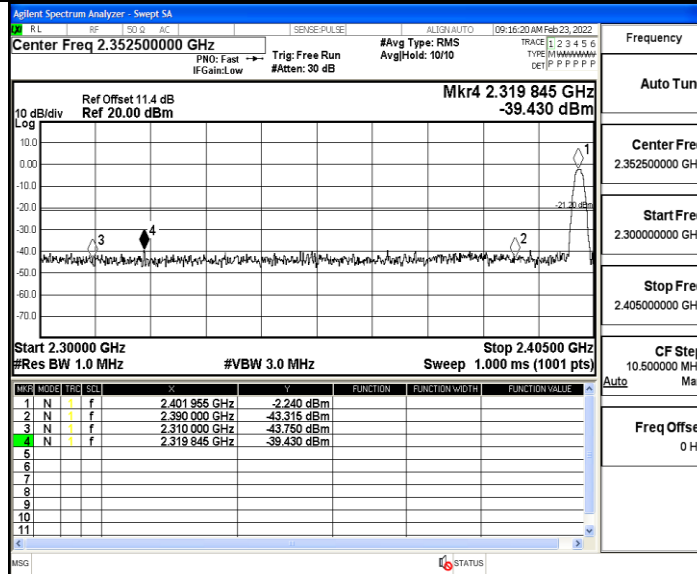
Test Graphs

DH5_Ant1_Low_2402_AV



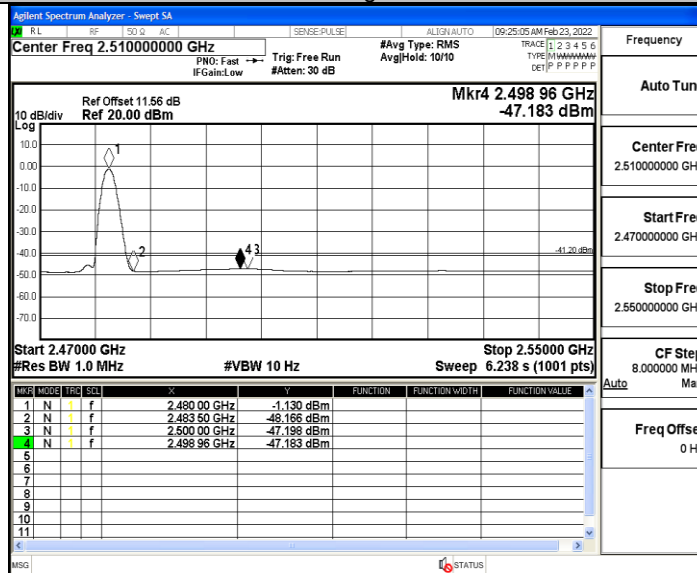
Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

DH5_Ant1_Low_2402_Peak



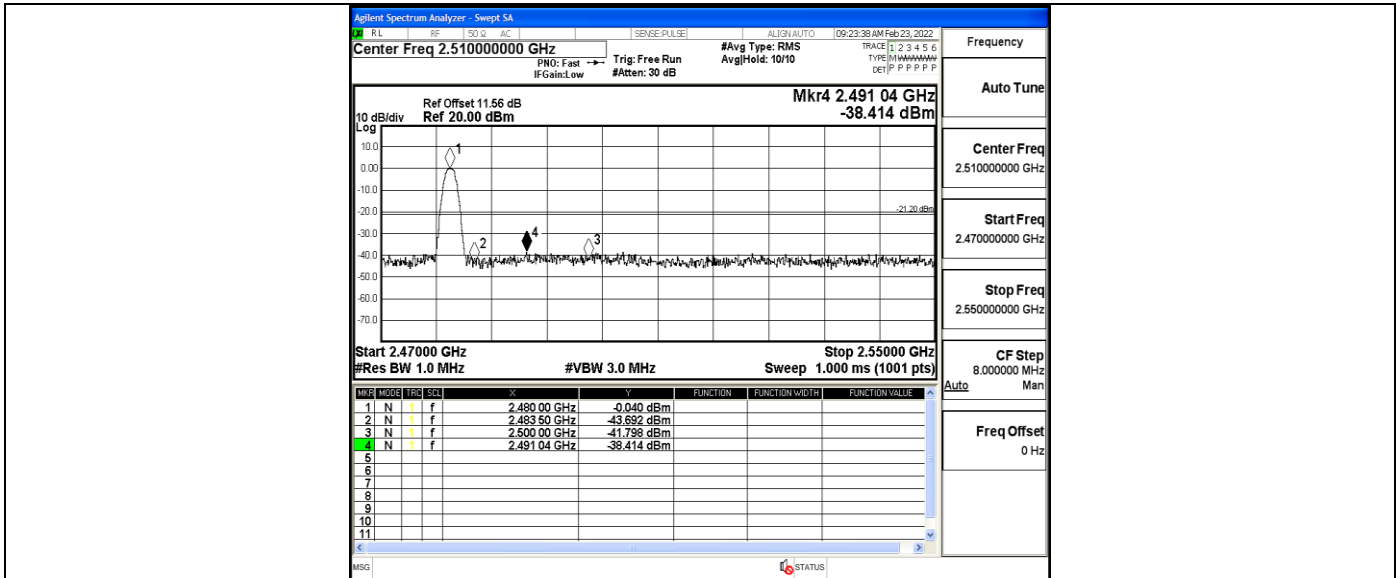
Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

DH5_Ant1_High_2480_AV

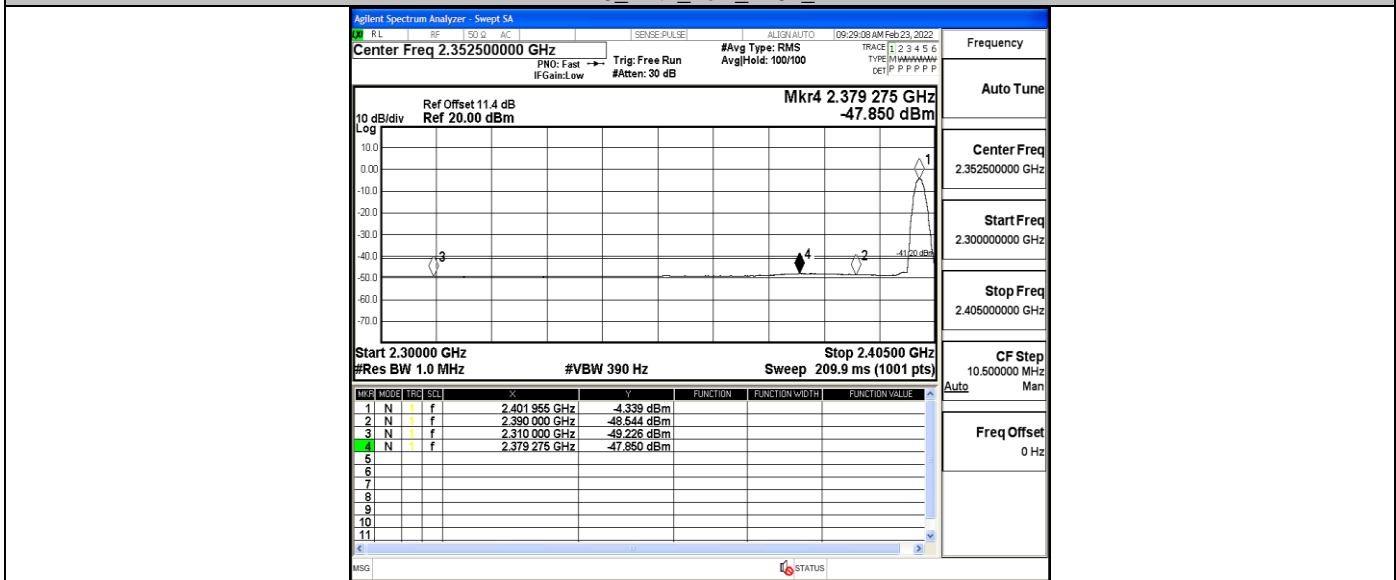


Frequency	Auto Tune
Center Freq	2.510000000 GHz
Start Freq	2.470000000 GHz
Stop Freq	2.550000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

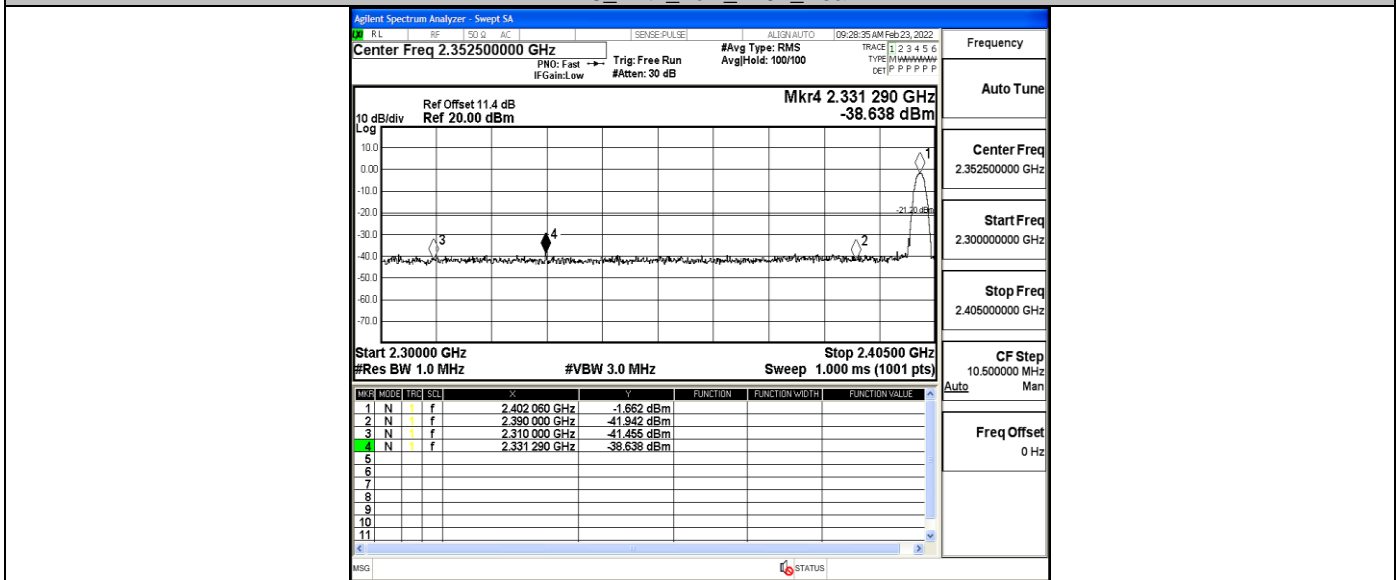
DH5_Ant1_High_2480_Peak



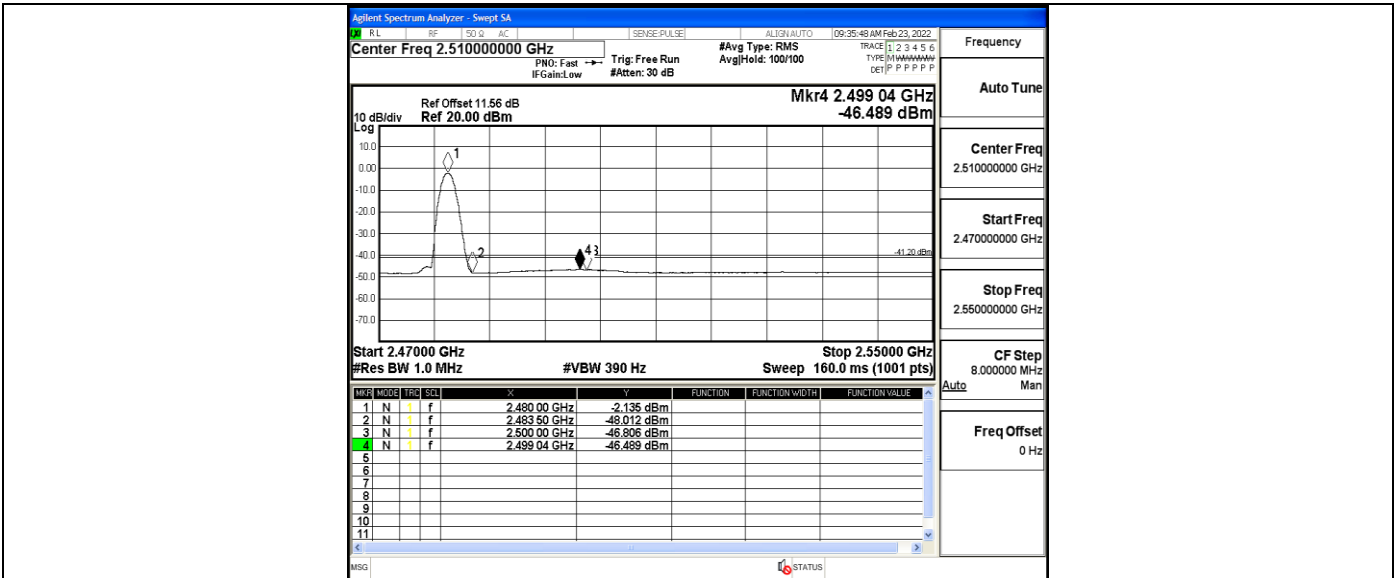
2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak

