

Appendix A**RF Test Data for BT(BDR/EDR) (Conducted Measurement)****Product Name: Wireless Earbuds****Trade Mark: WEKOME®****Test Model: VA01****FCC ID: 2ALJXVA01****Environmental Conditions**

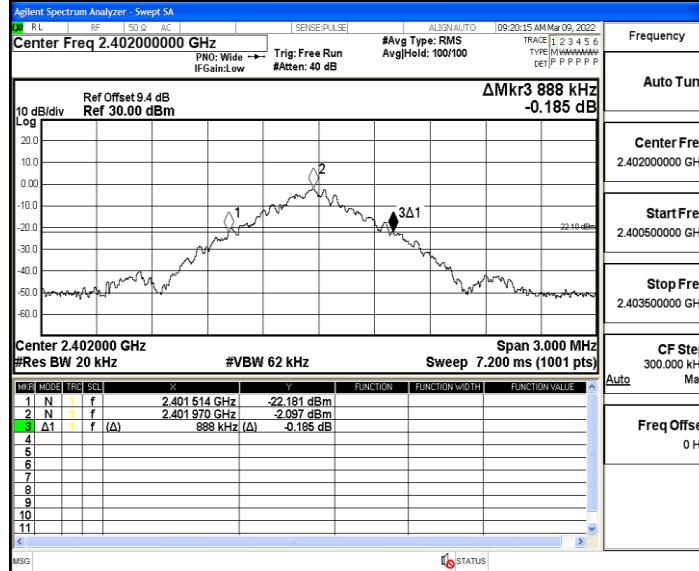
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

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

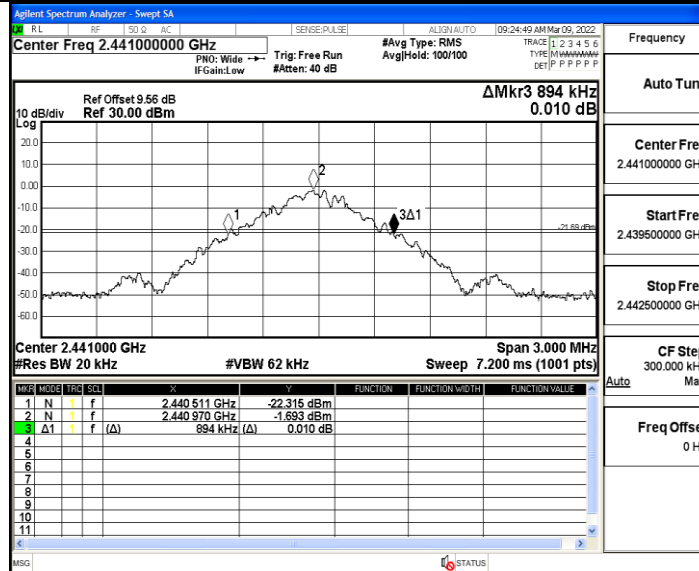
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.888	2401.514	2402.402	---	PASS
		2441	0.894	2440.511	2441.405	---	PASS
		2480	0.894	2479.511	2480.405	---	PASS
2DH5	Ant1	2402	1.341	2401.301	2402.642	---	PASS
		2441	1.275	2440.319	2441.594	---	PASS
		2480	1.284	2479.316	2480.600	---	PASS

Test Graphs

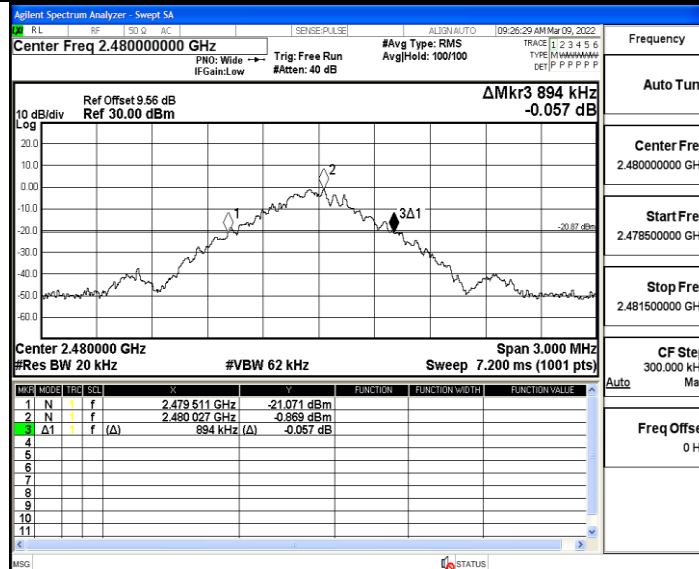
DH5 Ant1 2402



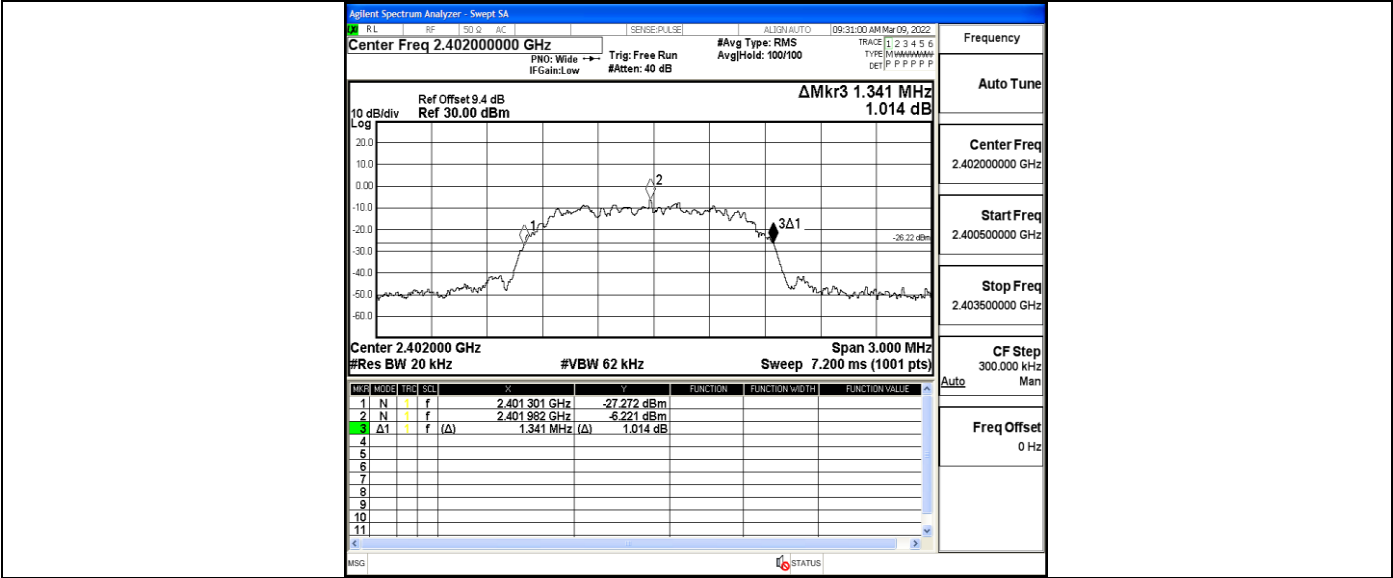
DH5 Ant1 2441



DH5 Ant1 2480



2DH5 Ant1 2402



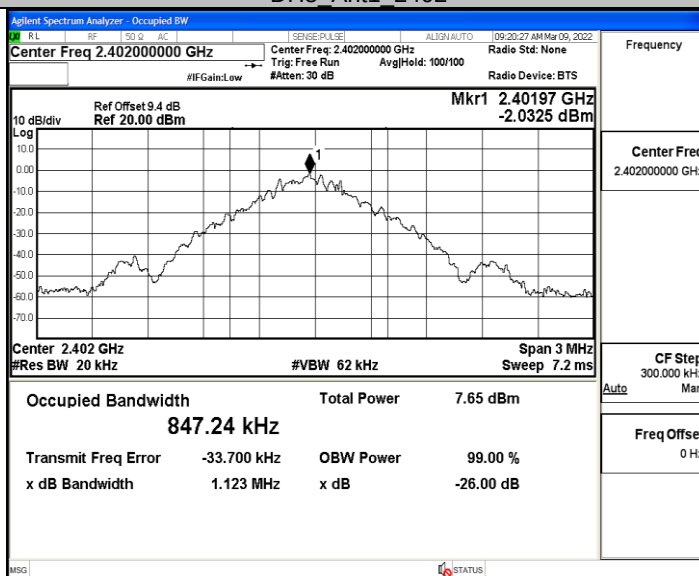
Appendix B: Occupied Channel Bandwidth

Test Result

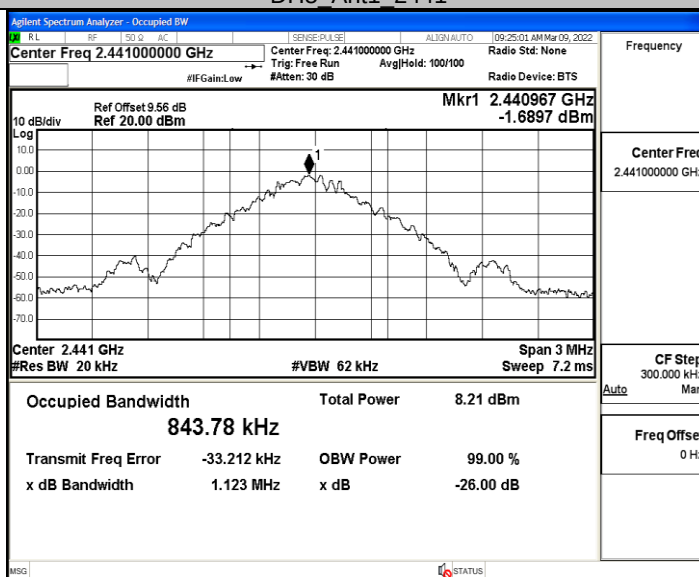
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84724	2401.543	2402.390	---	PASS
		2441	0.84378	2440.545	2441.389	---	PASS
		2480	0.85181	2479.539	2480.391	---	PASS
2DH5	Ant1	2402	1.1770	2401.379	2402.556	---	PASS
		2441	1.1806	2440.377	2441.558	---	PASS
		2480	1.1754	2479.379	2480.554	---	PASS

Test Graphs

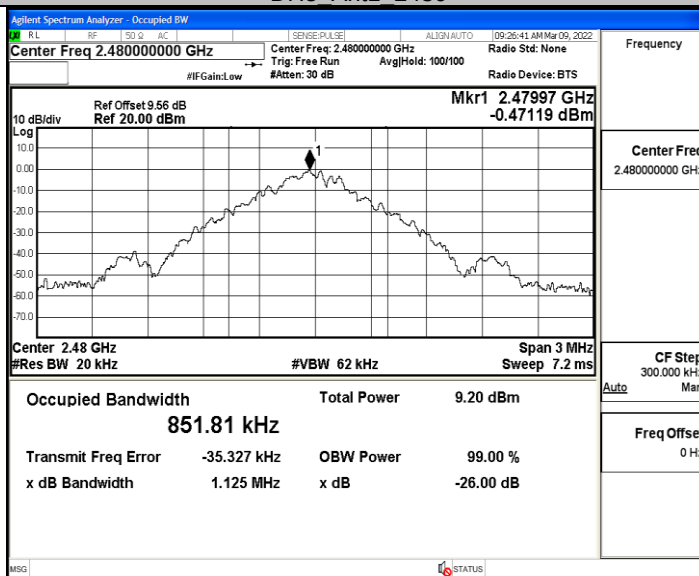
DH5 Ant1 2402



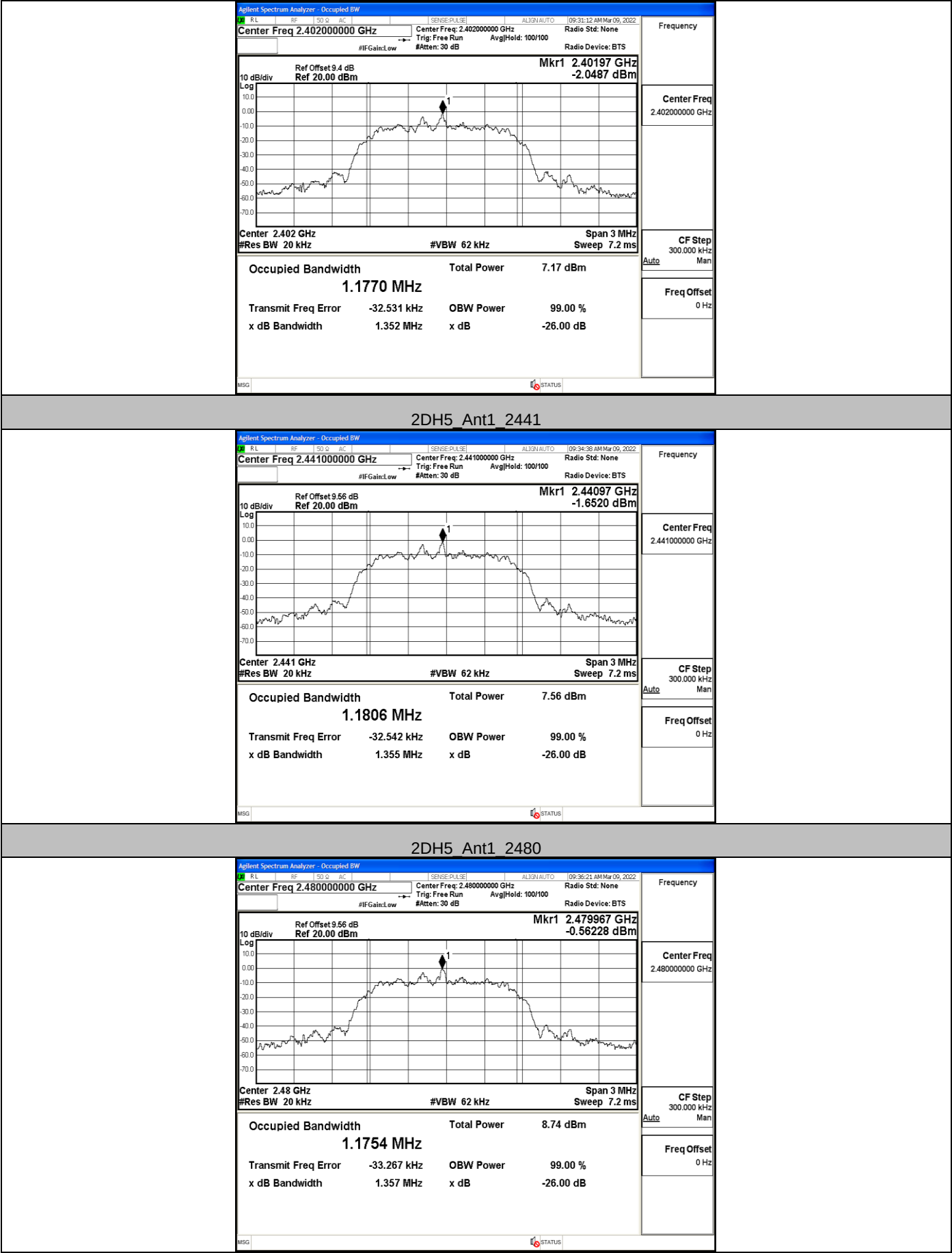
DH5 Ant1 2441



DH5 Ant1 2480



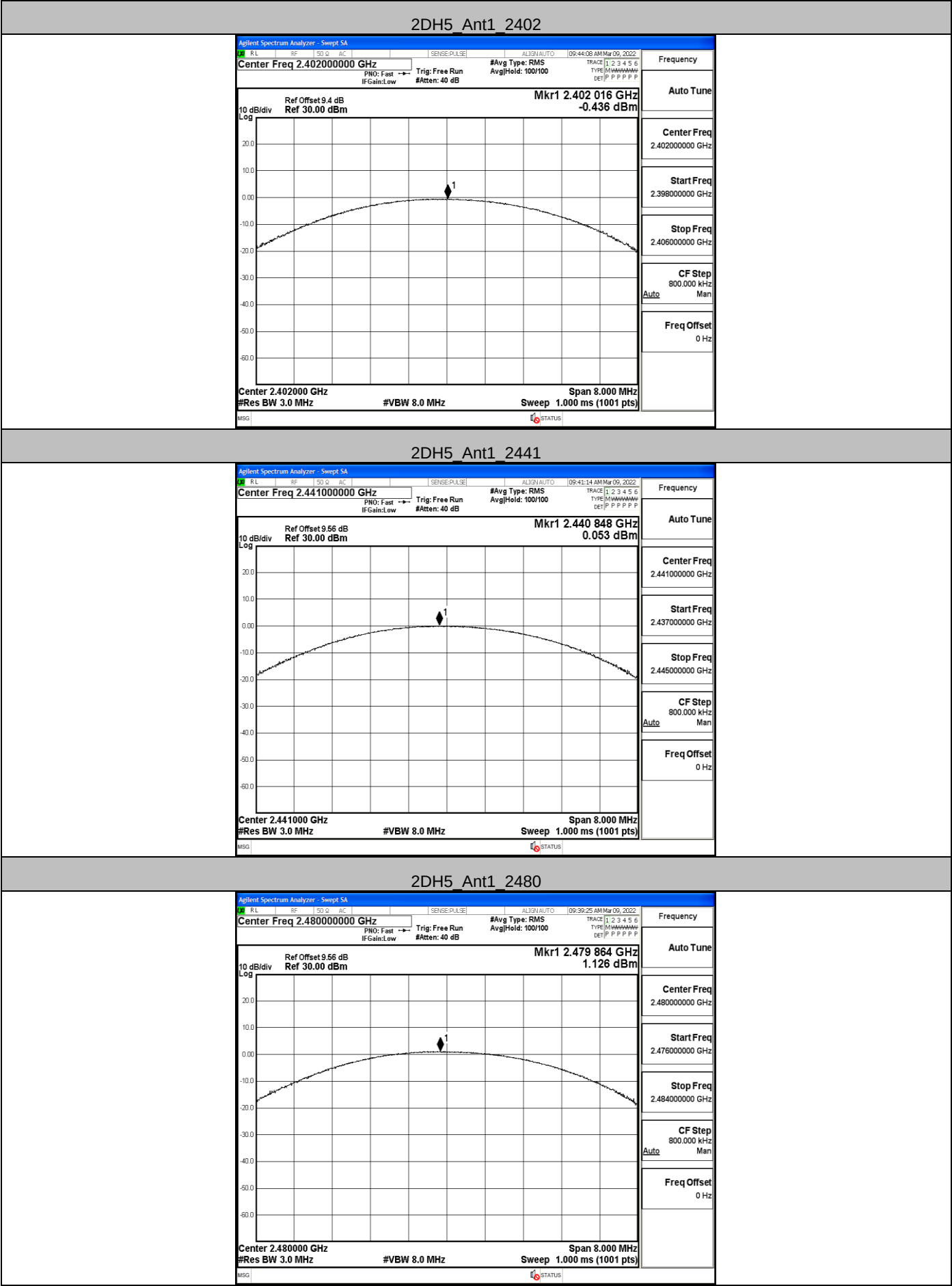
2DH5 Ant1 2402



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.23	<=30.00	PASS
		2441	1.77	<=30.00	PASS
		2480	0.42	<=30.00	PASS
2DH5	Ant1	2402	-0.44	<=20.97	PASS
		2441	0.05	<=20.97	PASS
		2480	1.13	<=20.97	PASS

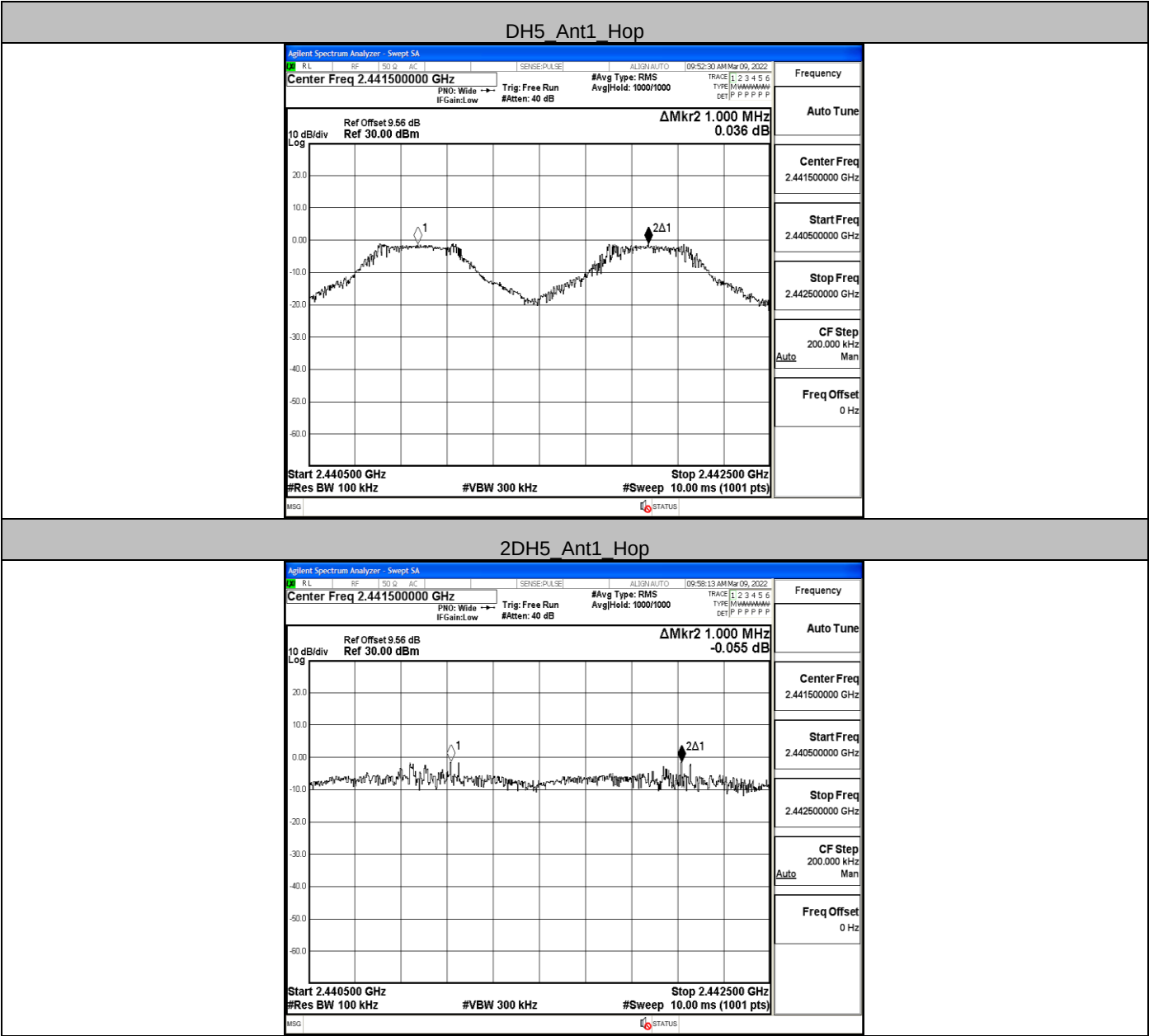


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.000	≥ 0.894	PASS
2DH5	Ant1	Hop	1.000	≥ 0.894	PASS

Test Graphs



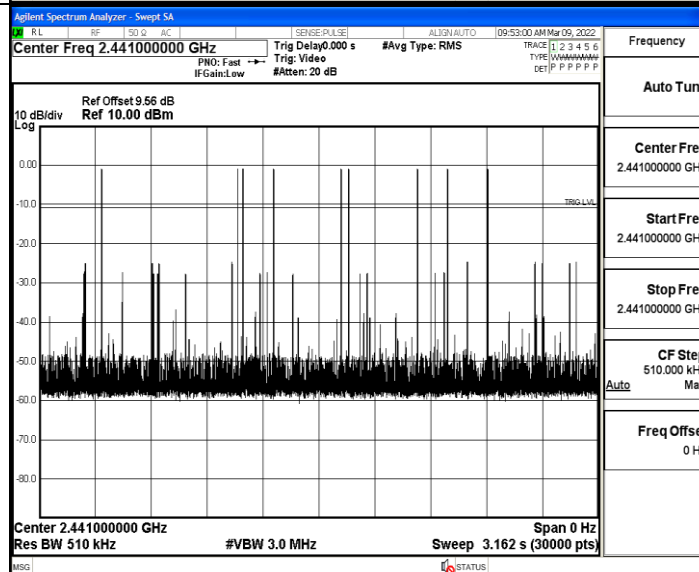
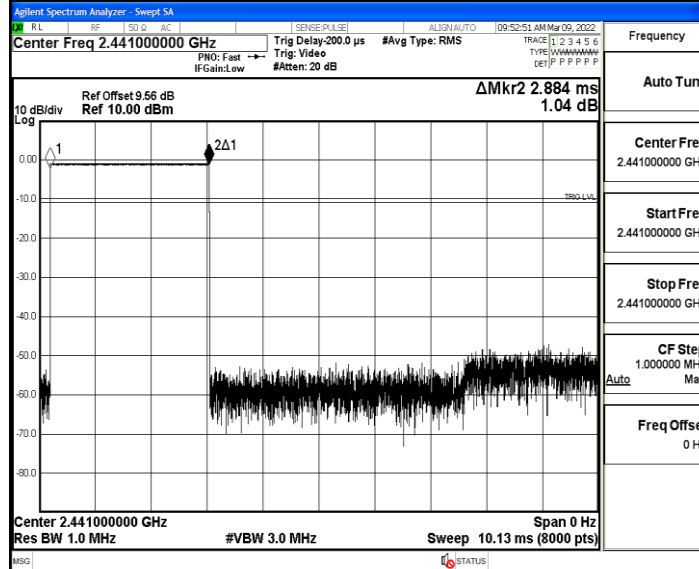
Appendix E: Time of occupancy

Test Result

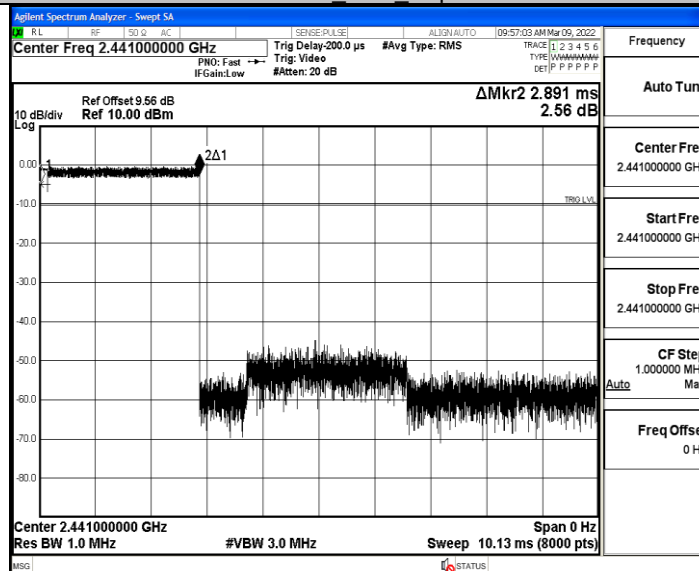
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	100	0.288	<=0.4	PASS
2DH5	Ant1	Hop	2.89	130	0.376	<=0.4	PASS

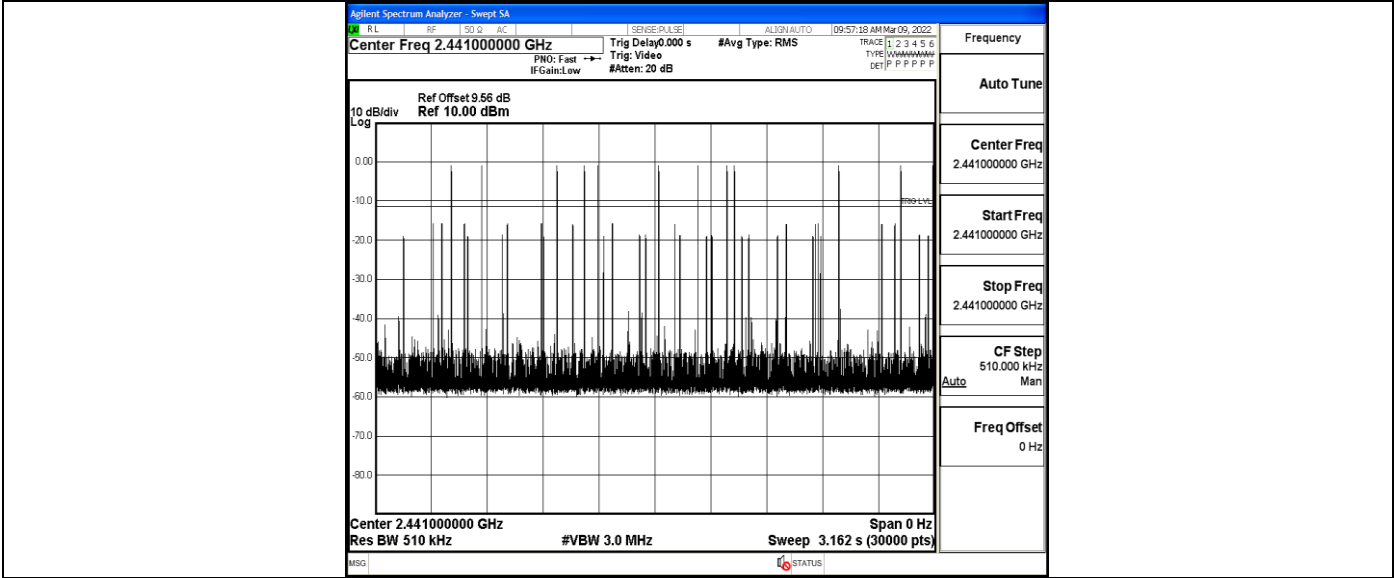
Test Graphs

DH5 Ant1 Hop



2DH5 Ant1 Hop



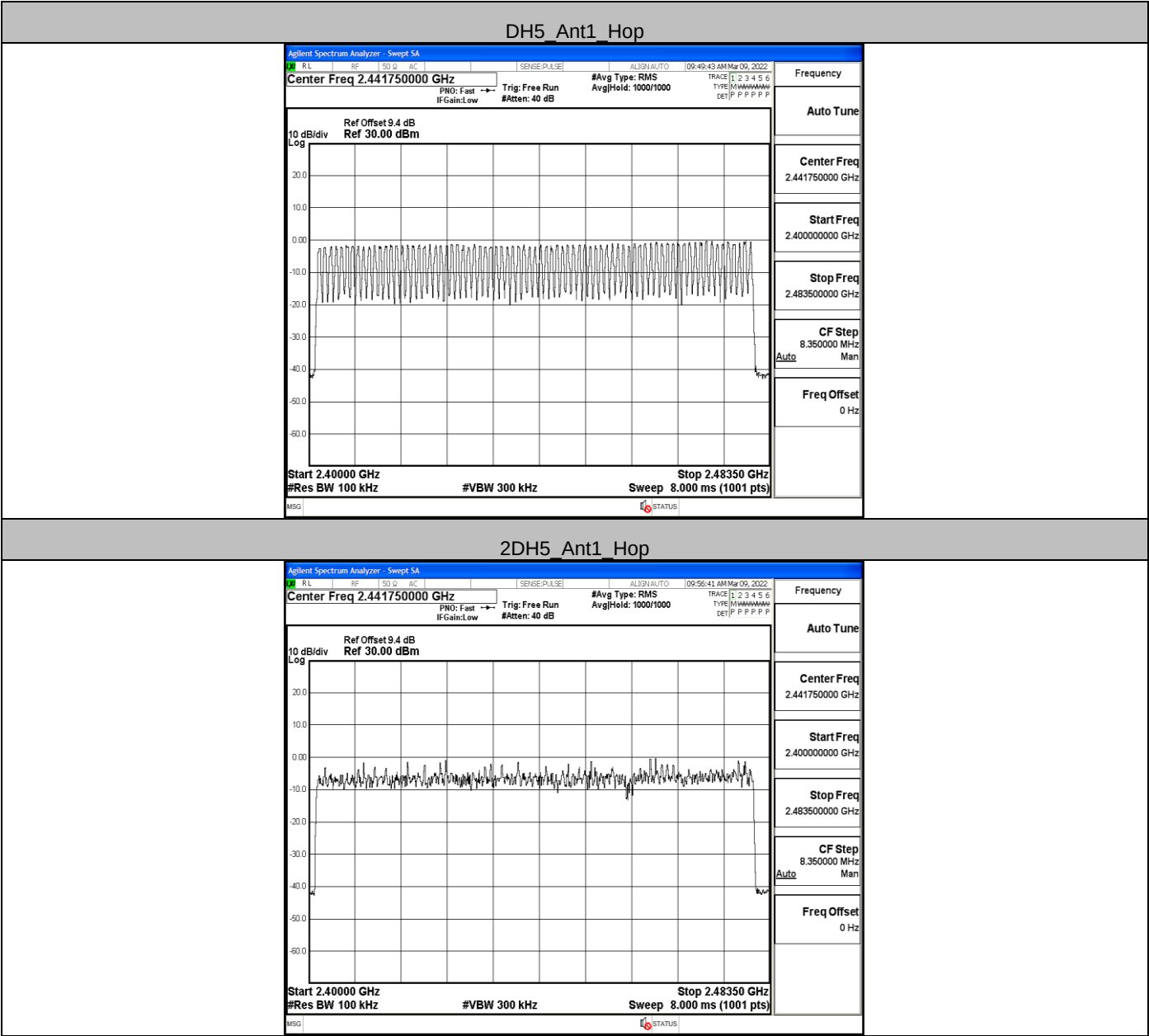


Appendix F: Number of hopping channels

Test Result

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

Test Graphs



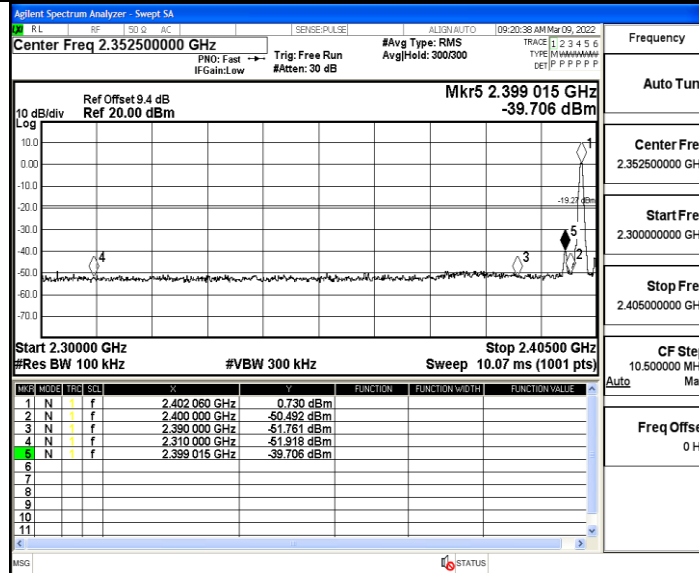
Appendix G: Band edge measurements

Test Result

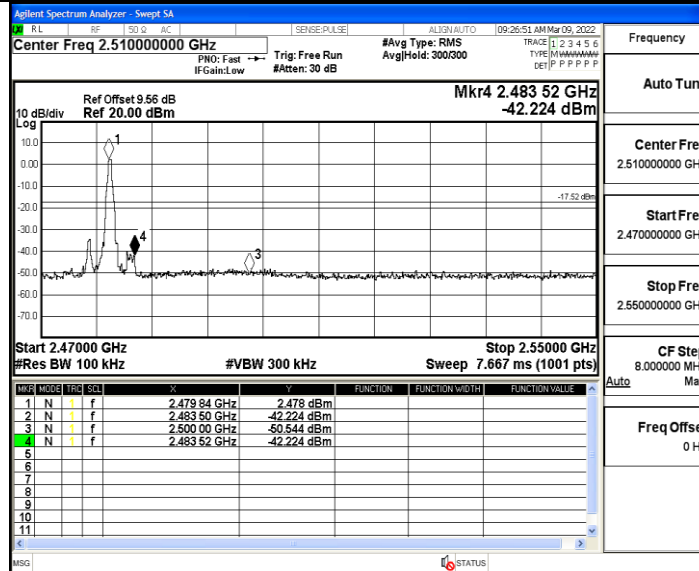
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.73	-39.71	≤ -19.27	PASS
		High	2480	2.48	-42.22	≤ -17.52	PASS
		Low	Hop_2402	-2.41	-49.92	≤ -22.41	PASS
		High	Hop_2480	-0.50	-47.92	≤ -20.5	PASS
2DH5	Ant1	Low	2402	0.82	-40.67	≤ -19.18	PASS
		High	2480	2.33	-42.34	≤ -17.67	PASS
		Low	Hop_2402	-5.32	-50.29	≤ -25.32	PASS
		High	Hop_2480	-2.89	-48.54	≤ -22.89	PASS

Test Graphs

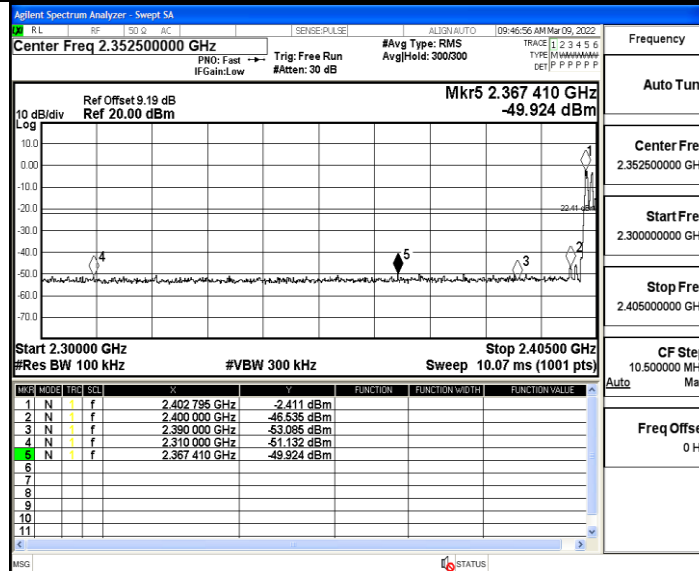
DH5 Ant1 Low 2402



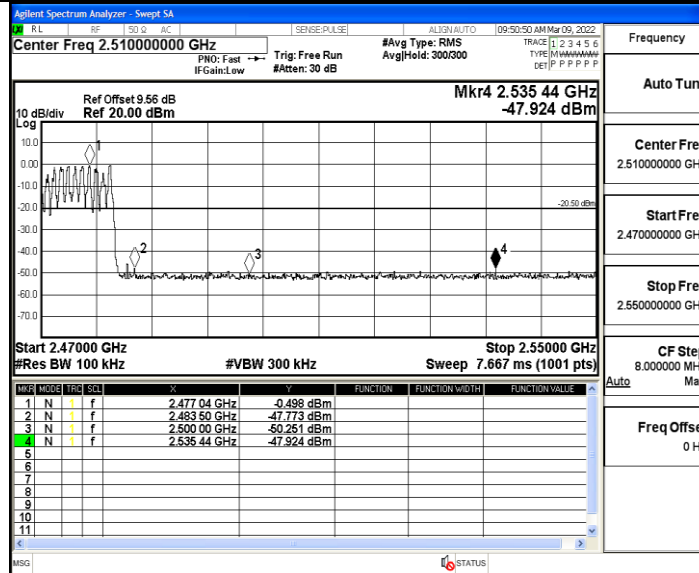
DH5 Ant1 High 2480



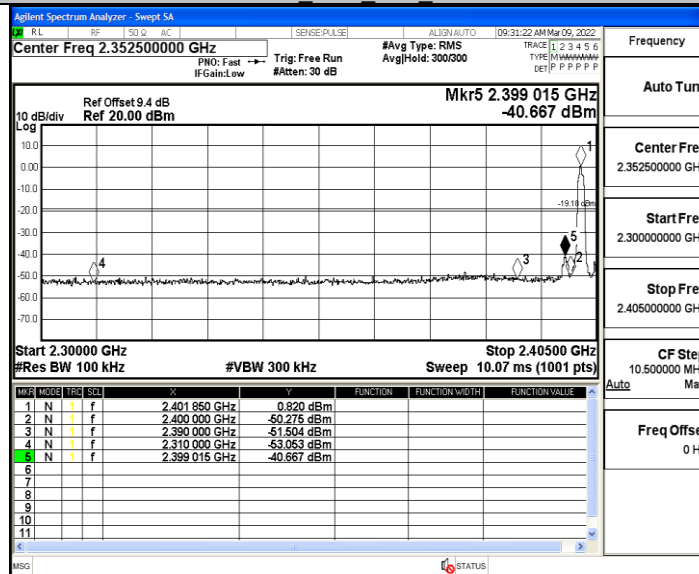
DH5 Ant1 Low Hop 2402



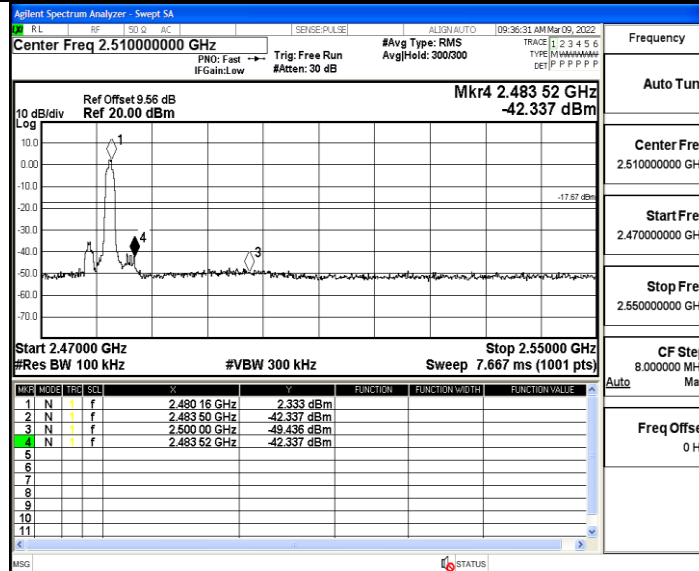
DH5 Ant1 High Hop 2480



2DH5 Ant1 Low 2402



2DH5 Ant1 High 2480



2DH5 Ant1 Low Hop 2402



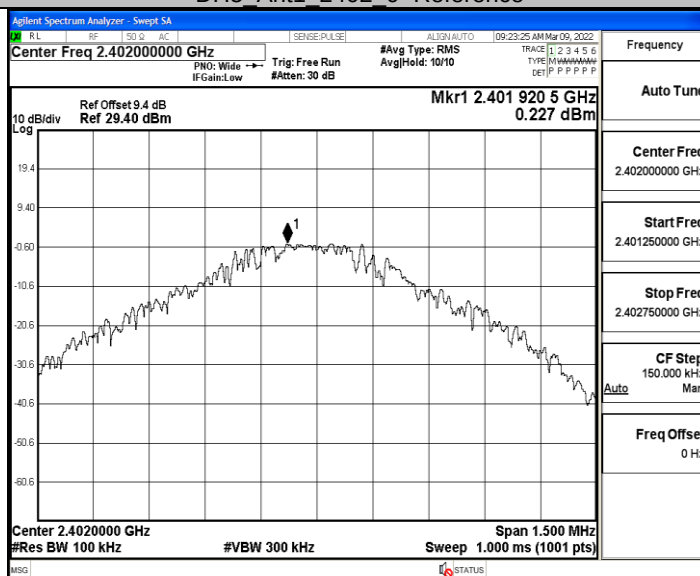
Appendix H: Conducted Spurious Emission

Test Result

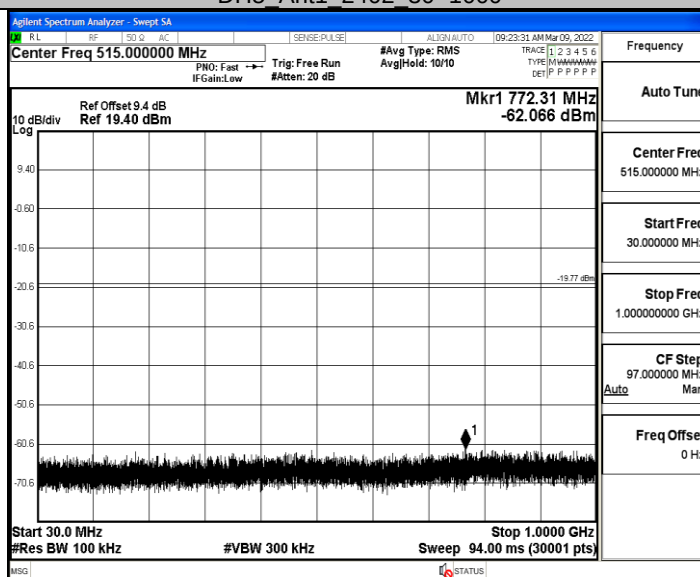
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.23	0.23	---	PASS
			30~1000	0.23	-62.07	≤-19.77	PASS
			1000~26500	0.23	-49.64	≤-19.77	PASS
		2441	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-61.2	≤-18.71	PASS
			1000~26500	1.29	-47.09	≤-18.71	PASS
		2480	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-59.94	≤-20.8	PASS
			1000~26500	-0.80	-47.45	≤-20.8	PASS
2DH5	Ant1	2402	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-60.74	≤-21.66	PASS
			1000~26500	-1.66	-50.45	≤-21.66	PASS
		2441	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-60.27	≤-21.08	PASS
			1000~26500	-1.08	-50.66	≤-21.08	PASS
		2480	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-61.14	≤-23.54	PASS
			1000~26500	-3.54	-49.55	≤-23.54	PASS

Test Graphs

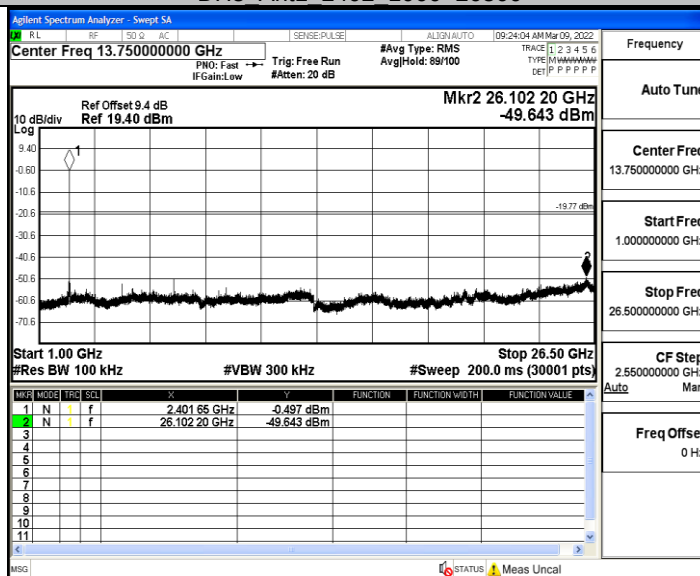
DH5 Ant1 2402 0~Reference



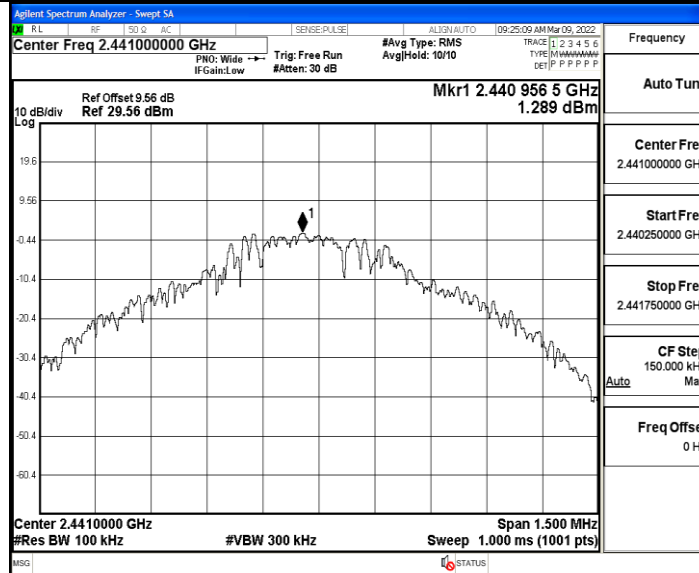
DH5 Ant1 2402 30~1000



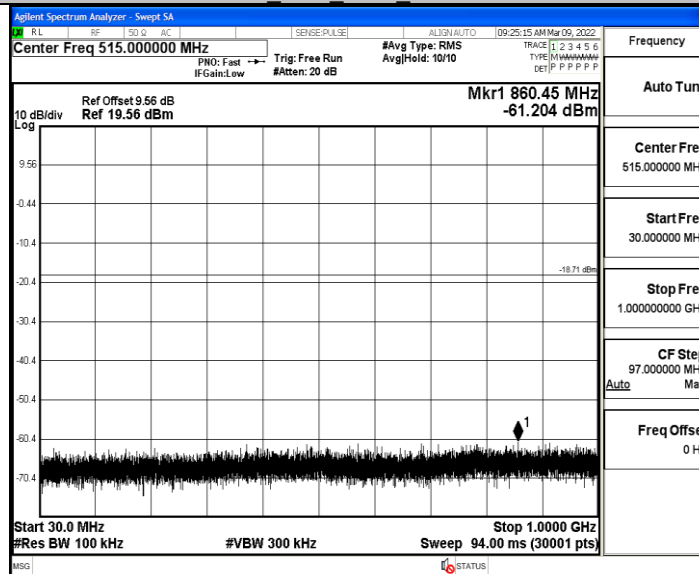
DH5 Ant1 2402 1000~26500



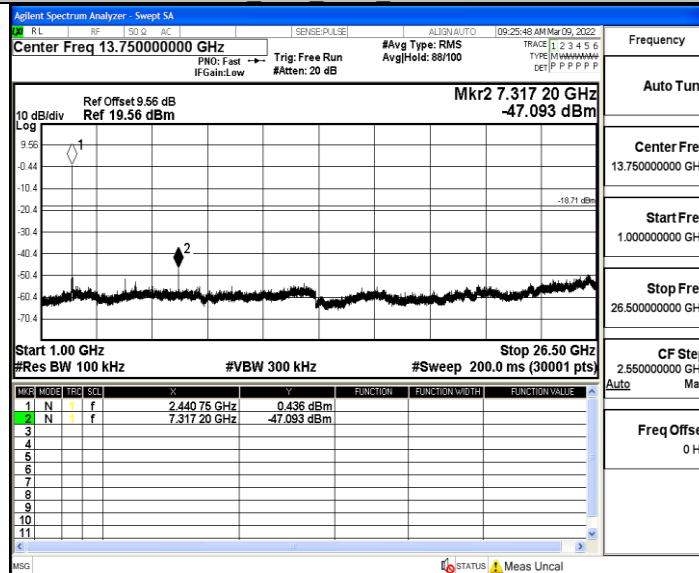
DH5 Ant1 2441 0~Reference



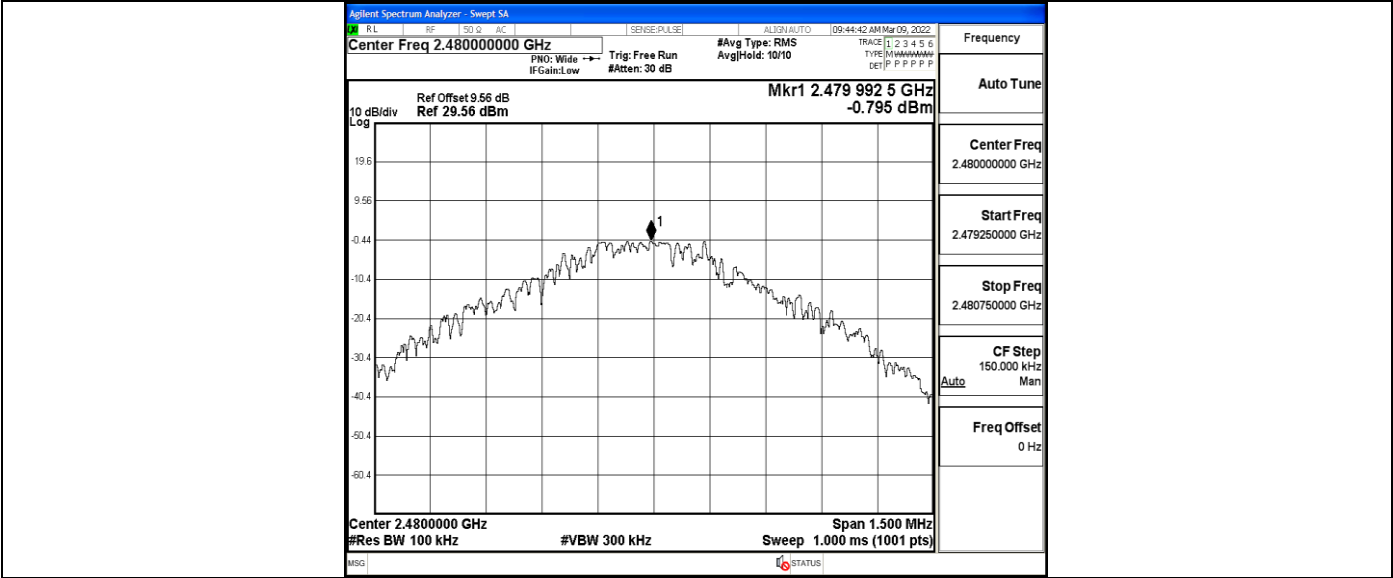
DH5_Ant1_2441_30~1000



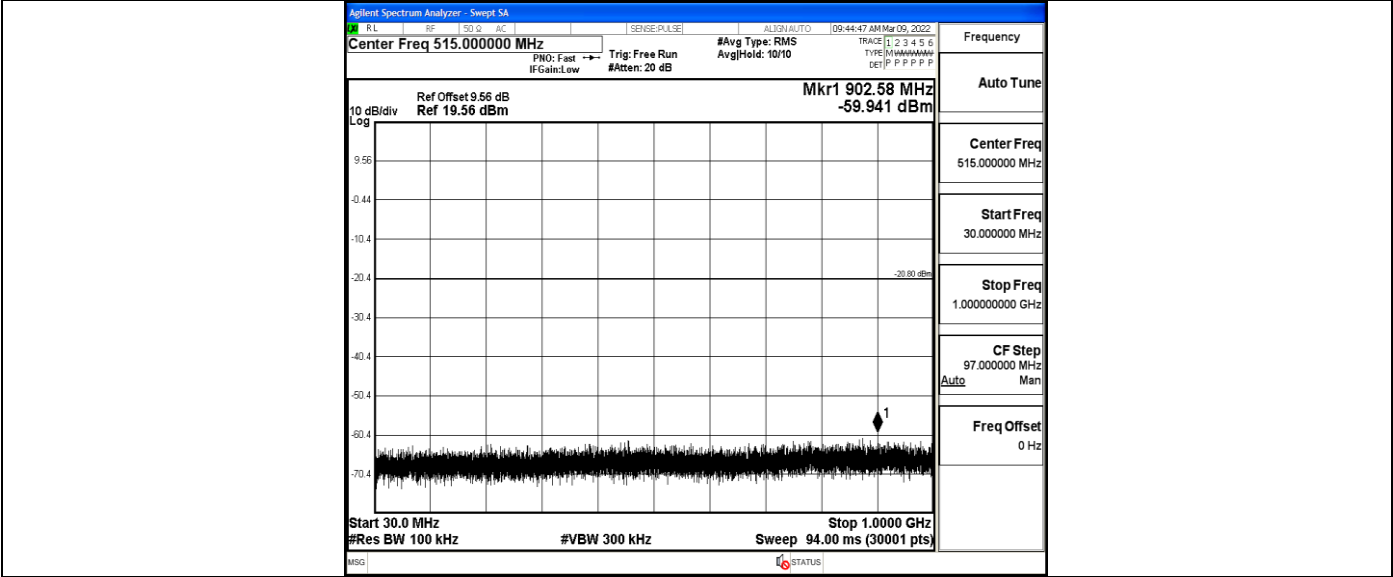
DH5_Ant1_2441_1000~26500



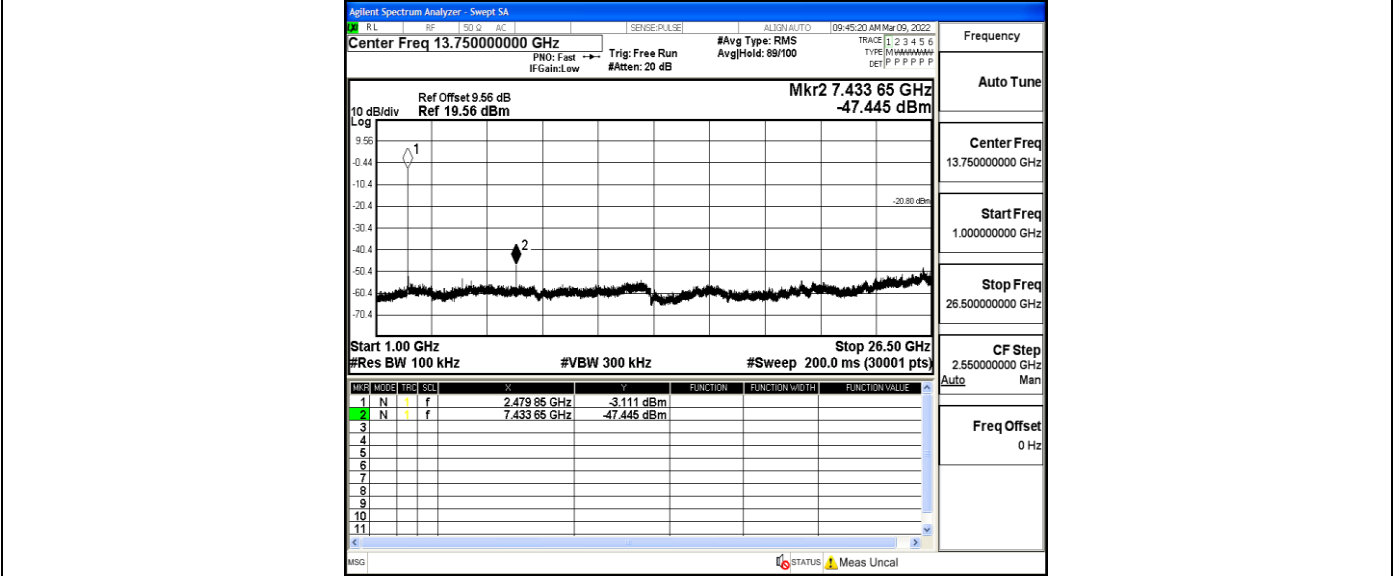
DH5_Ant1_2480_0~Reference



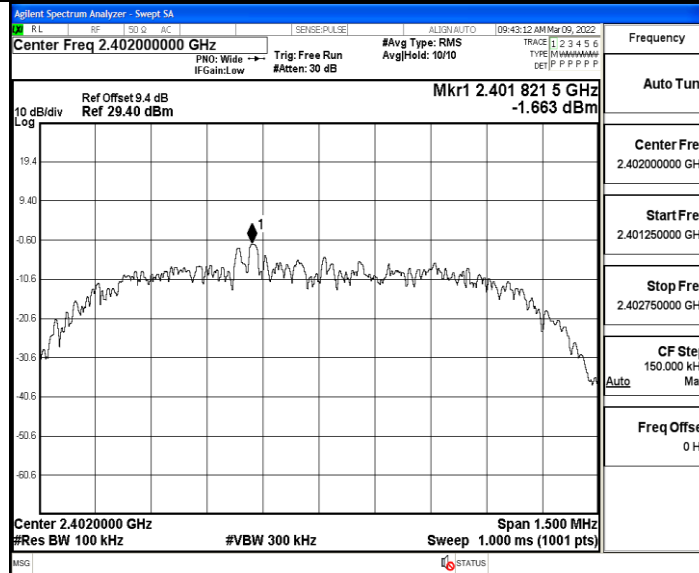
DH5 Ant1 2480 30~1000



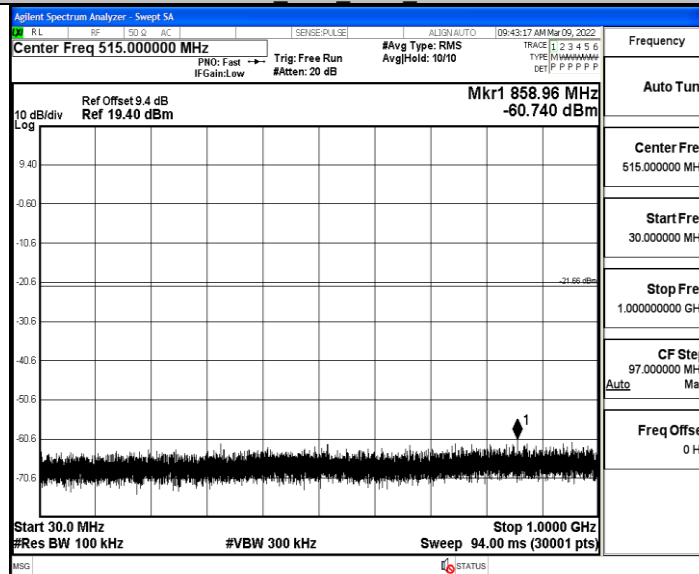
DH5 Ant1 2480 1000~26500



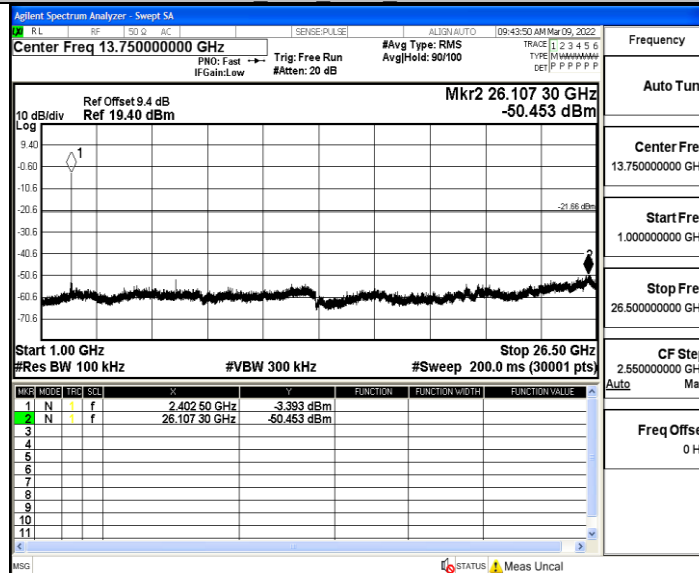
2DH5 Ant1 2402_0~Reference



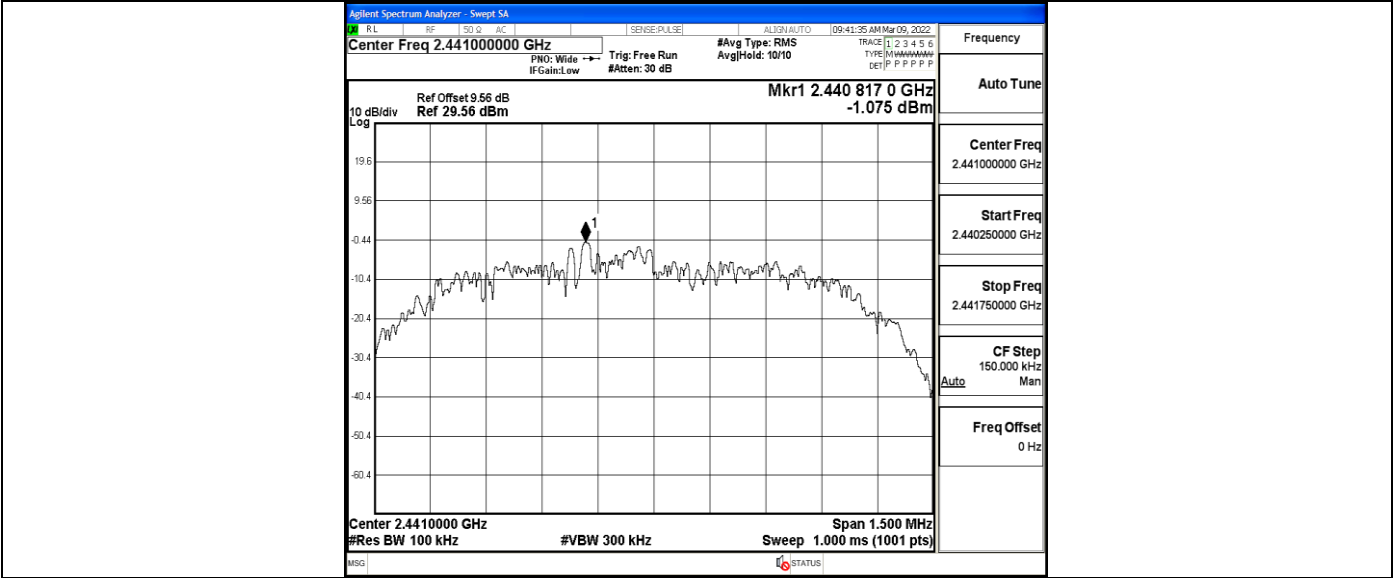
2DH5_Ant1_2402_30~1000



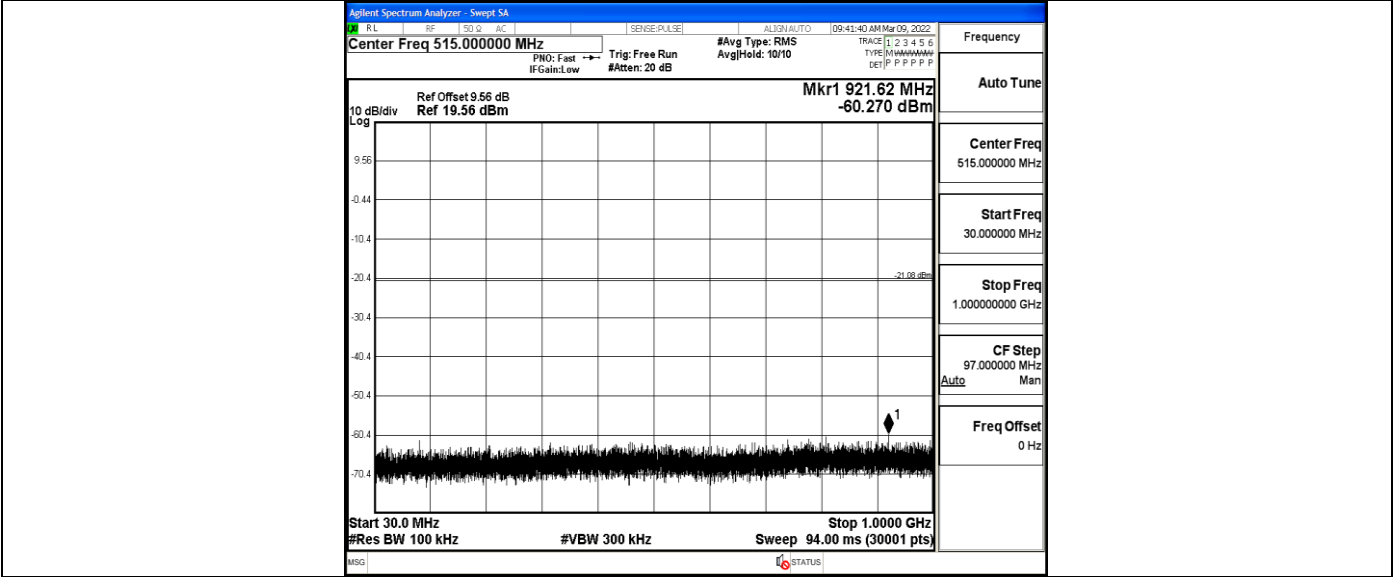
2DH5_Ant1_2402_1000~26500



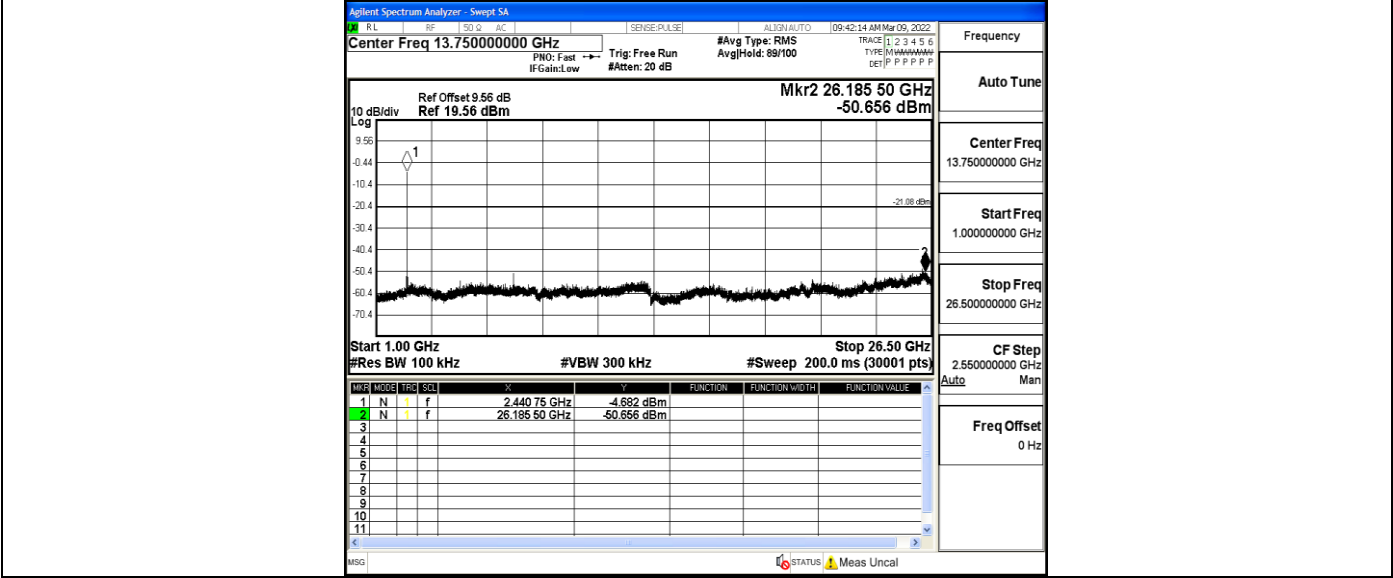
2DH5_Ant1_2441_0~Reference



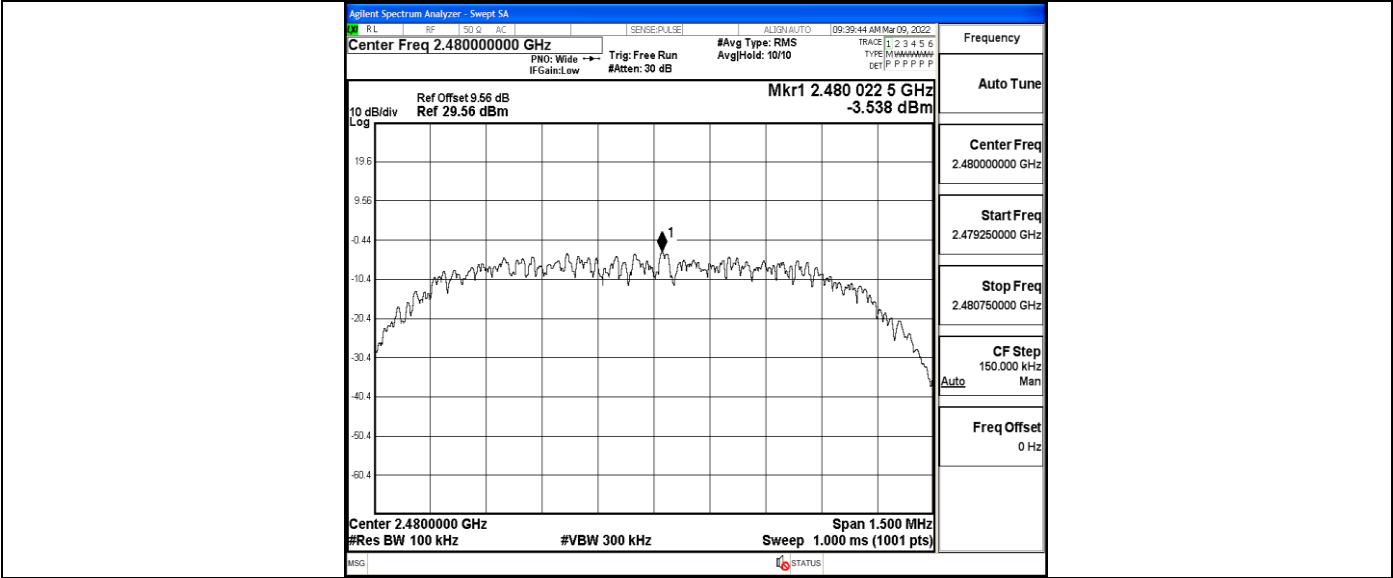
2DH5 Ant1 2441 30~1000



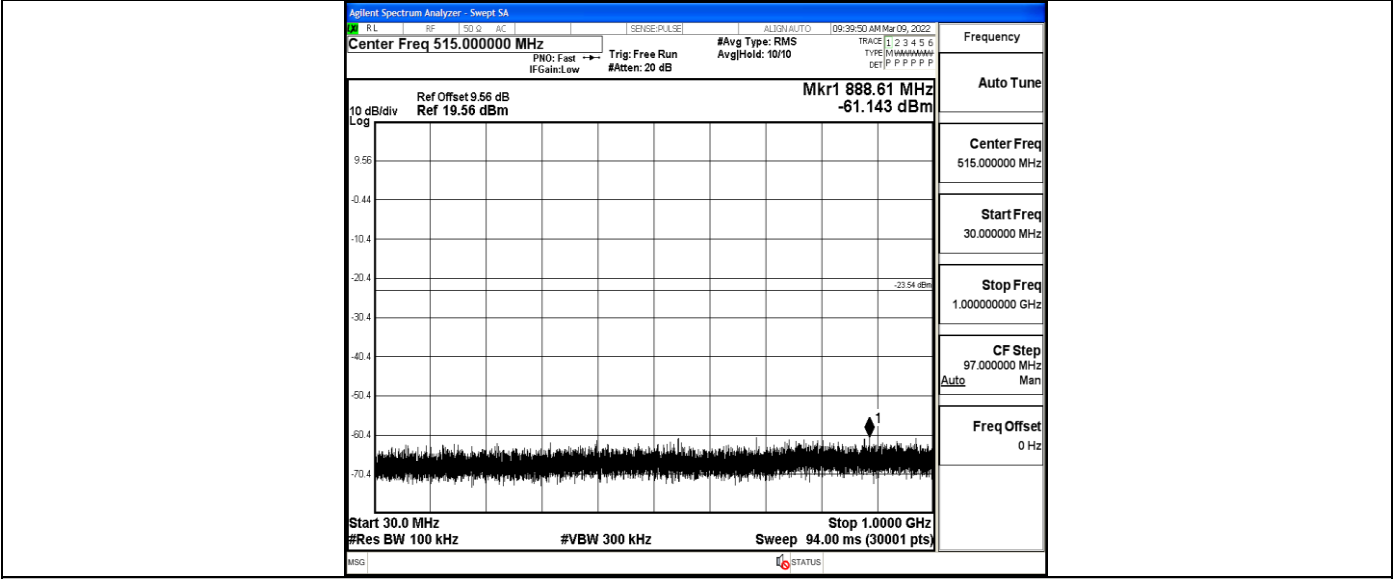
2DH5 Ant1 2441 1000~26500



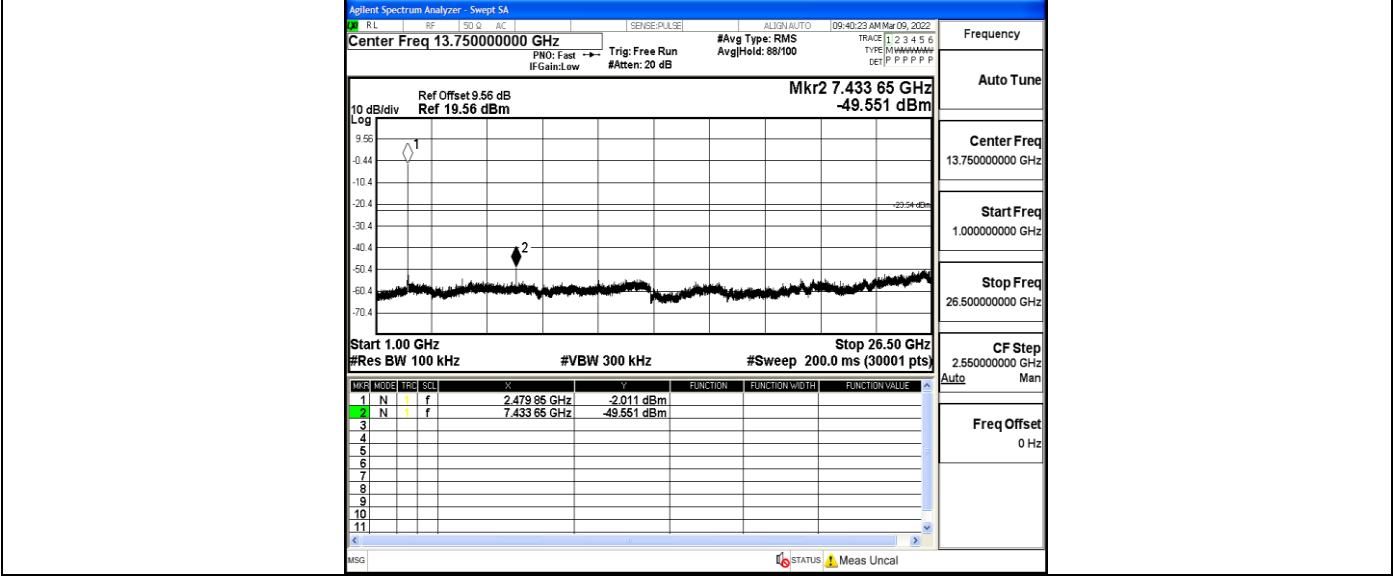
2DH5 Ant1 2480 0~Reference



2DH5 Ant1 2480 30~1000



2DH5 Ant1 2480 1000~26500



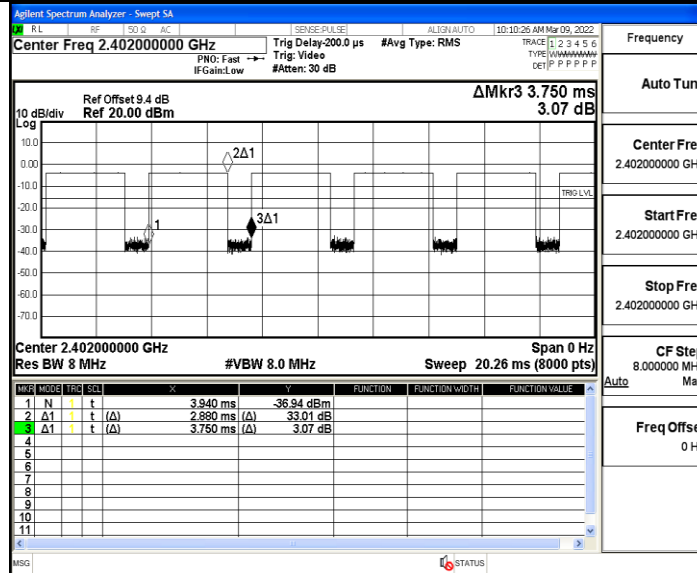
Appendix I: Duty Cycle

Test Result

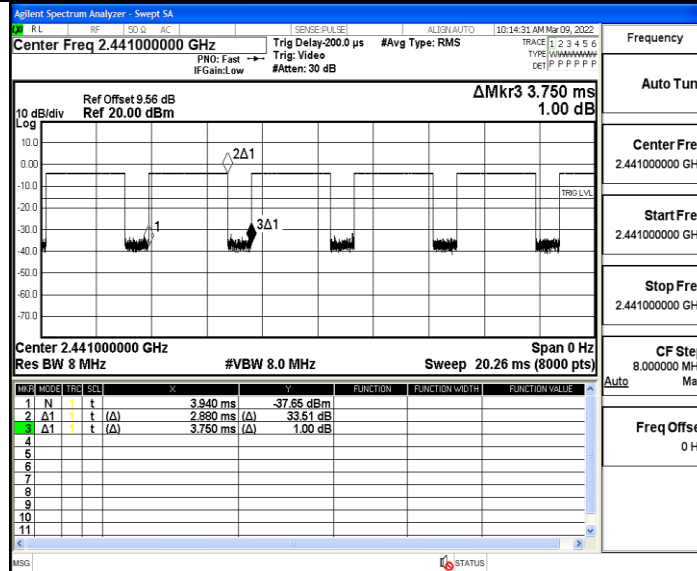
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/B(KHz)
DH5	Ant1	2402	2.87	3.77	76.13	0.35
		2441	2.86	3.76	76.06	0.35
		2480	2.87	3.77	76.13	0.35
2DH5	Ant1	2402	2.88	3.78	76.19	0.35
		2441	2.88	3.78	76.19	0.35
		2480	2.88	3.78	76.19	0.35

Test Graphs

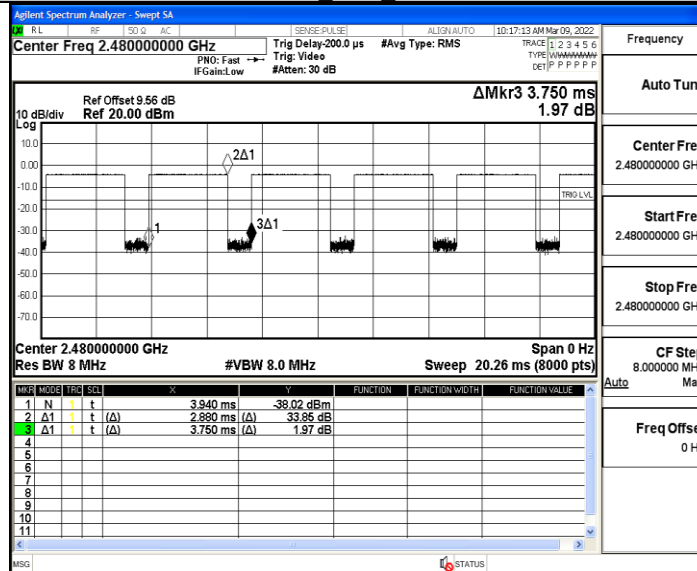
DH5_Ant1_2402



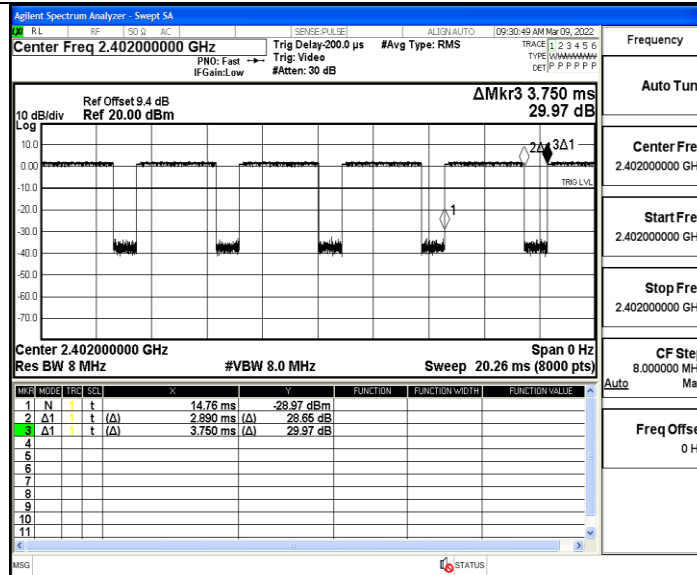
DH5_Ant1_2441



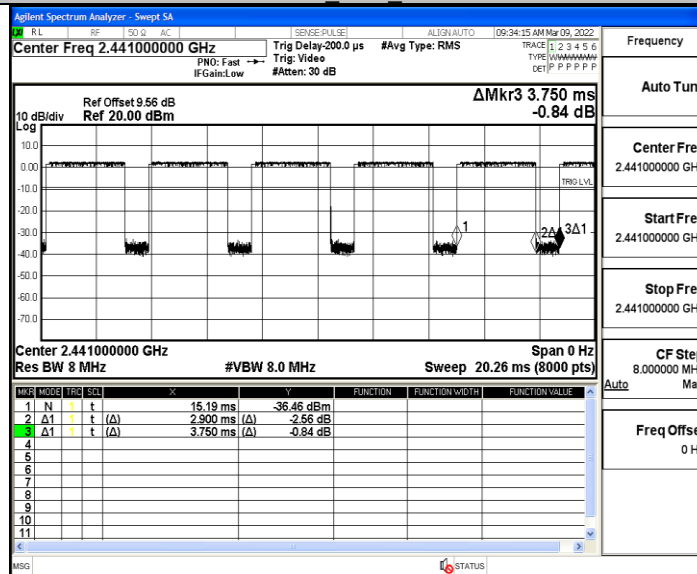
DH5_Ant1_2480



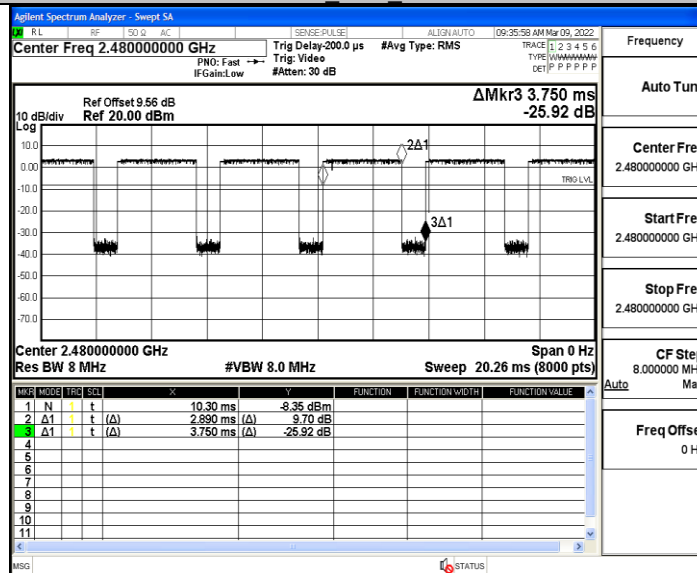
2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



Appendix J: Emissions in Restricted Bands

Test Result

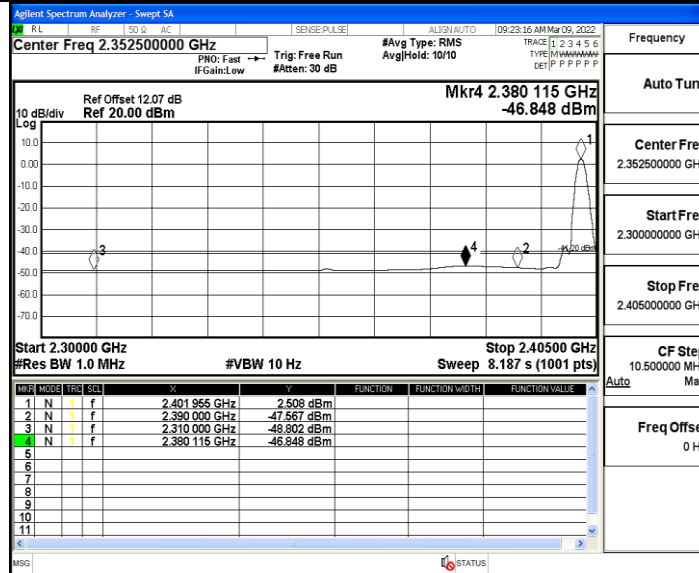
TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.8	≤-41.20	PASS
				AV	2380.115	-46.85	≤-41.20	PASS
				AV	2390.000	-47.57	≤-41.20	PASS
				Peak	2310.000	-44.25	≤-21.20	PASS
				Peak	2380.115	-36.97	≤-21.20	PASS
				Peak	2390.000	-43.36	≤-21.20	PASS
		High	2480	AV	2483.500	-41.27	≤-41.20	PASS
				AV	2483.520	-41.27	≤-41.20	PASS
				AV	2500.000	-45.87	≤-41.20	PASS
				Peak	2483.500	-36.82	≤-21.20	PASS
				Peak	2483.760	-34.09	≤-21.20	PASS
				Peak	2500.000	-39.12	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.47	≤-41.20	PASS
				AV	2378.855	-46.08	≤-41.20	PASS
				AV	2390.000	-46.97	≤-41.20	PASS
				Peak	2310.000	-41.17	≤-21.20	PASS
				Peak	2381.270	-37.06	≤-21.20	PASS
				Peak	2390.000	-39.65	≤-21.20	PASS
		High	2480	AV	2483.500	-42.17	≤-41.20	PASS
				AV	2483.520	-42.17	≤-41.20	PASS
				AV	2500.000	-45.25	≤-41.20	PASS
				Peak	2483.500	-35.27	≤-21.20	PASS
				Peak	2483.760	-34.75	≤-21.20	PASS
				Peak	2500.000	-39.22	≤-21.20	PASS

Note :

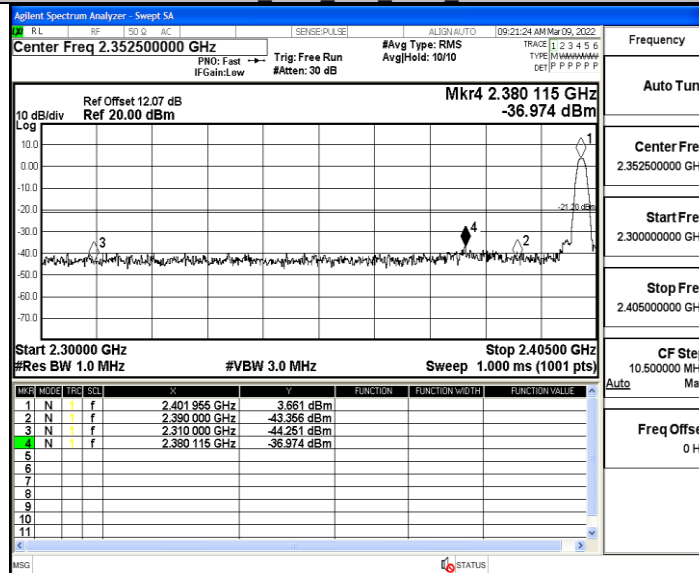
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

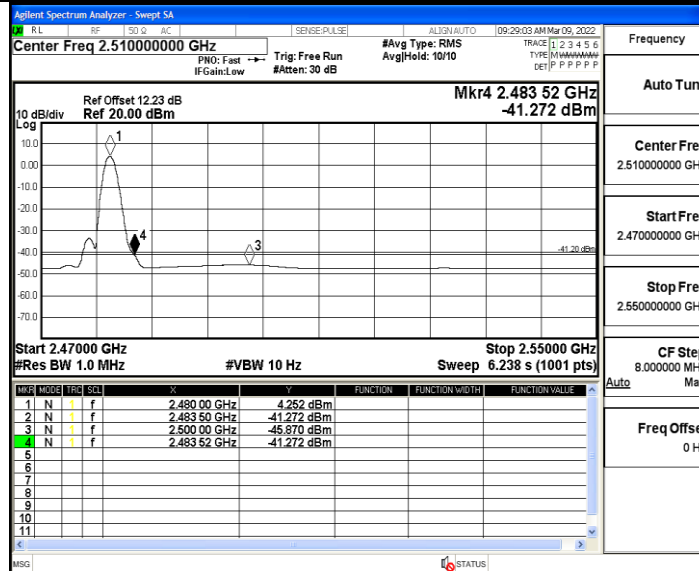
DH5 Ant1 Low 2402 AV



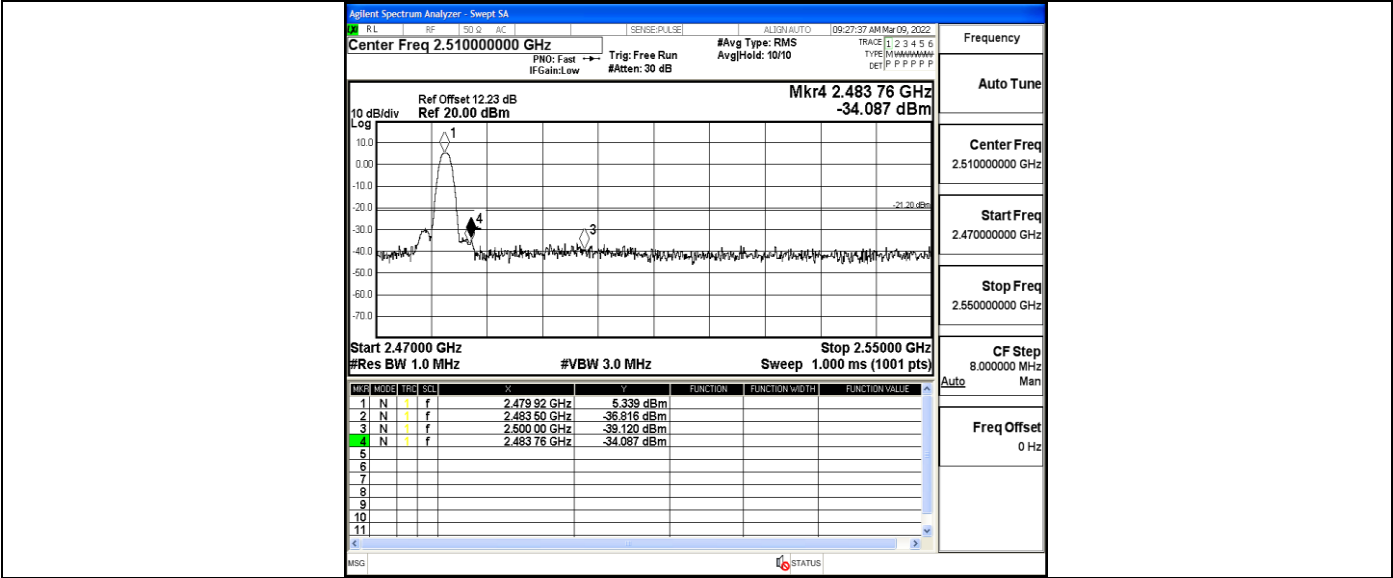
DH5 Ant1 Low 2402 Peak



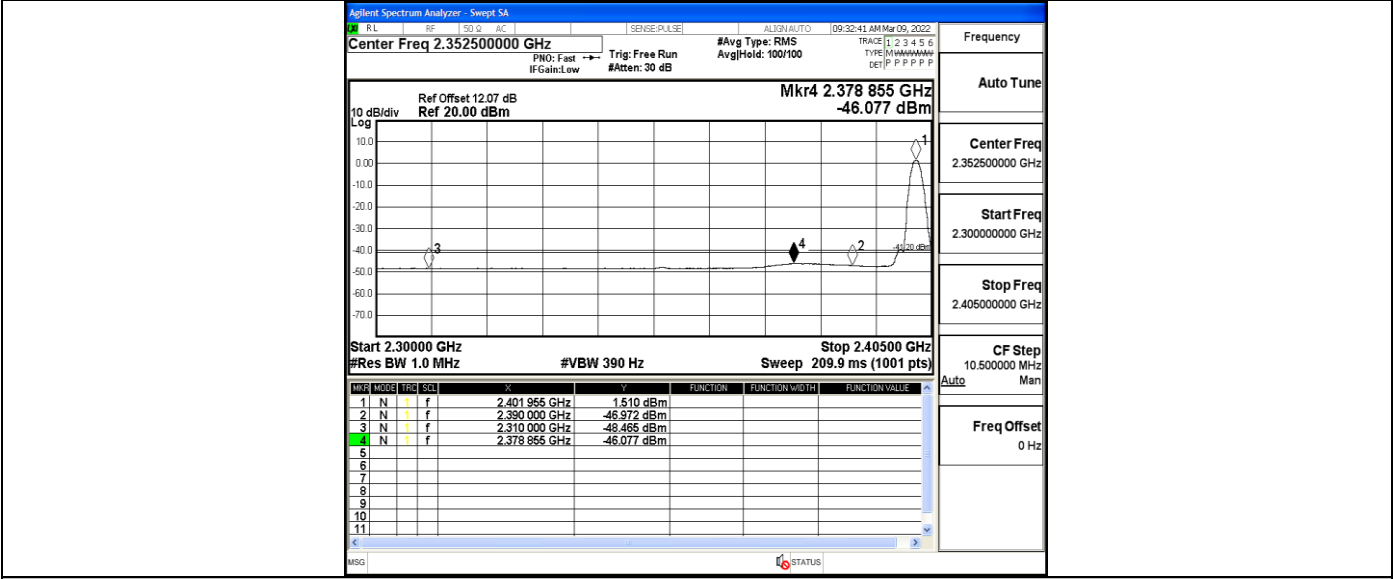
DH5 Ant1 High 2480 AV



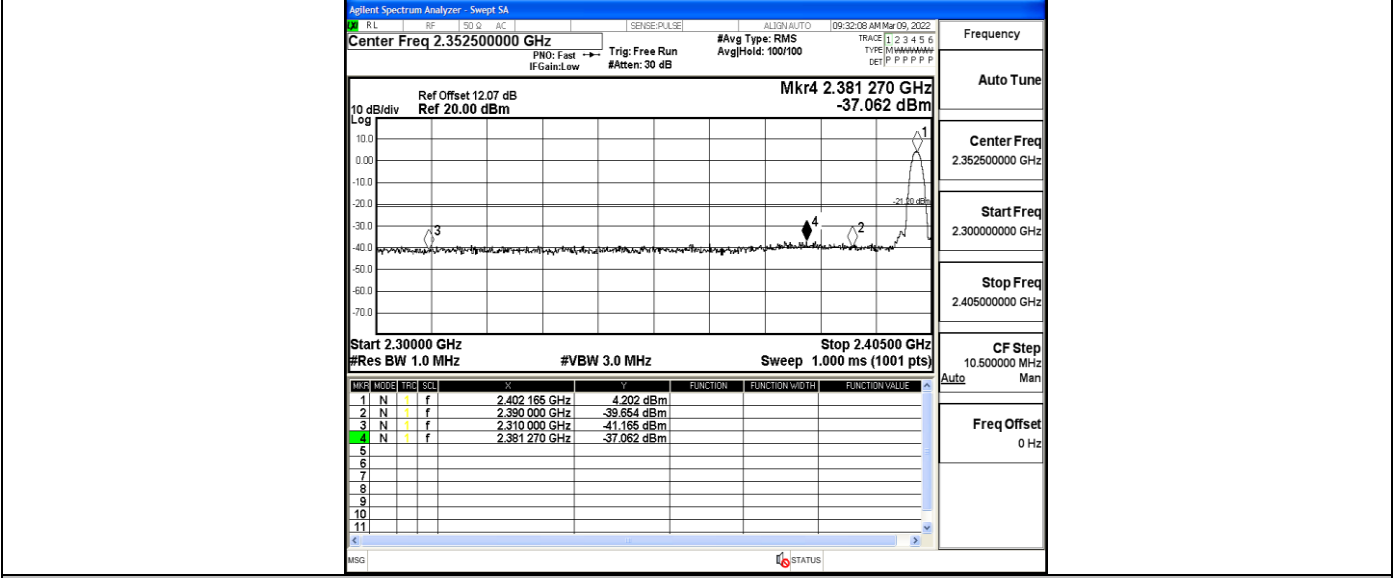
DH5 Ant1 High 2480 Peak



2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV

