



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: ture wireless earbuds

Test Model: E16

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Ling Zhu





A.1 20dB Emission Bandwidth

Test Result

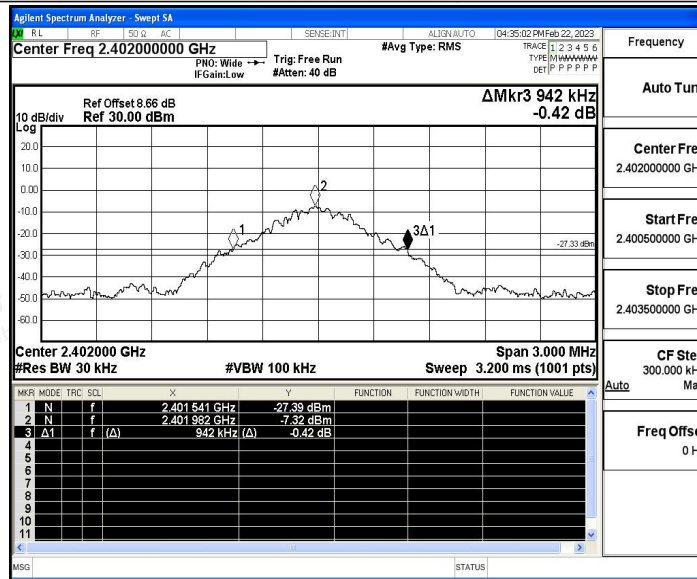
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.541	2402.483	---
		2441	0.945	2440.526	2441.471	---
		2480	0.957	2479.520	2480.477	---
2DH5	Ant1	2402	1.347	2401.319	2402.666	---
		2441	1.275	2440.358	2441.633	---
		2480	1.356	2479.313	2480.669	---



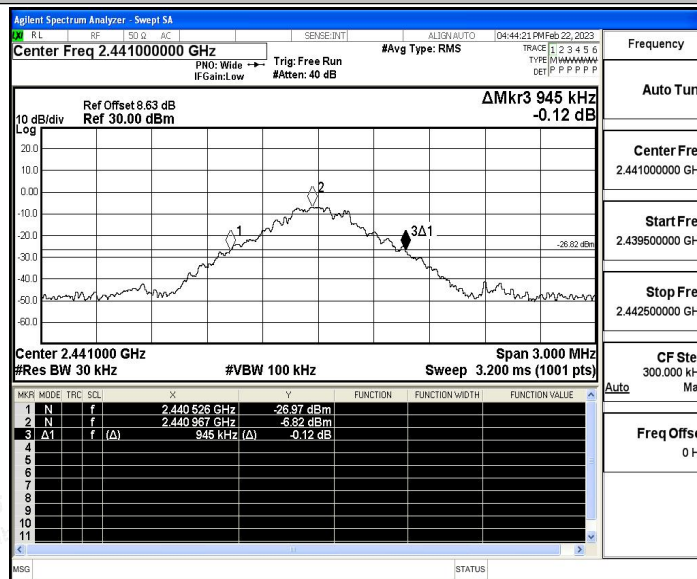


Test Graphs

DH5_Ant1_2402

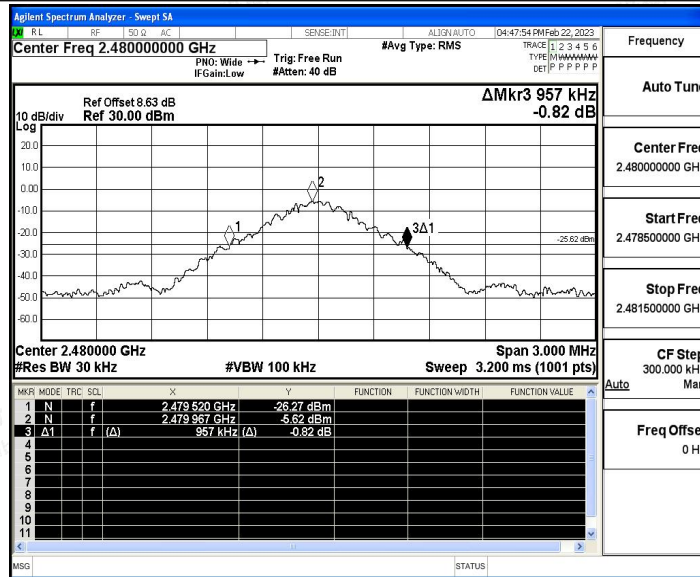


DH5_Ant1_2441

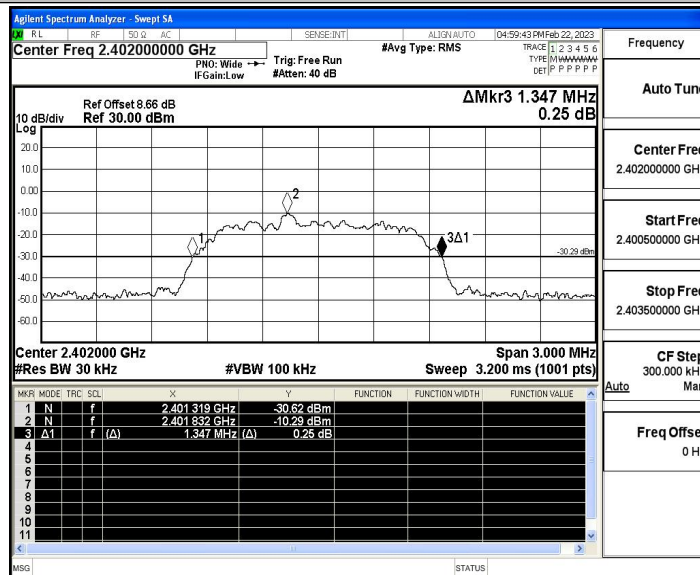


DH5_Ant1_2480



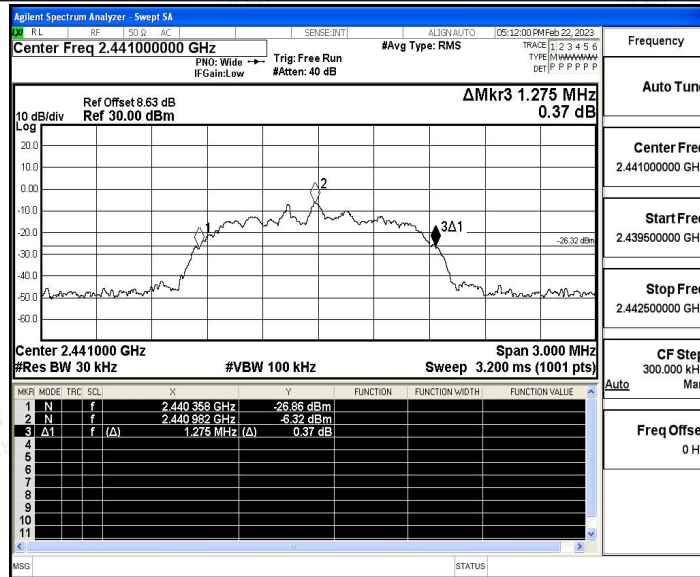


2DH5_Ant1_2402

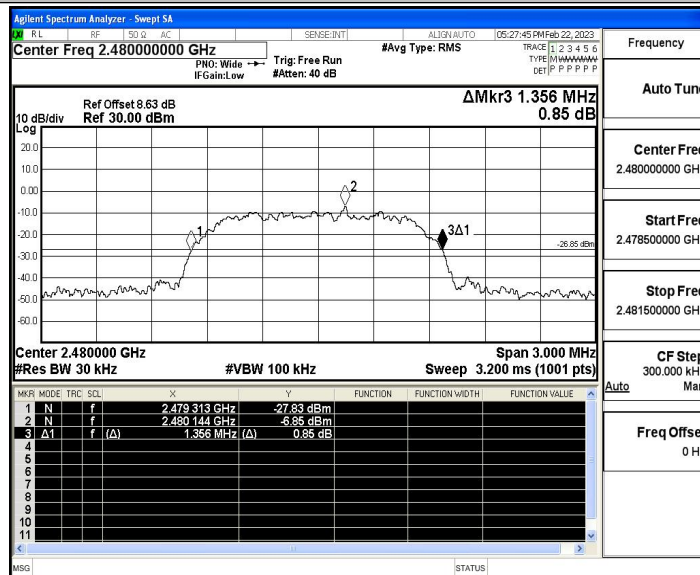


2DH5_Ant1_2441





2DH5_Ant1_2480



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A.2 Maximum conducted output power

Test Result

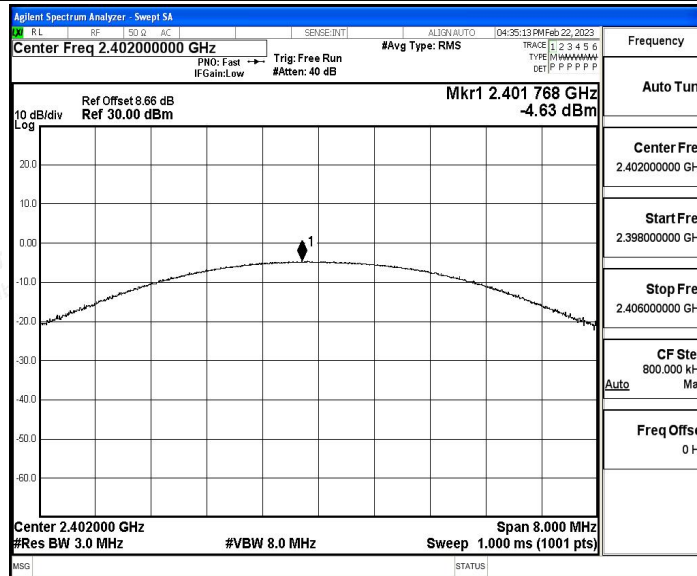
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-4.63	≤20.97	PASS
		2441	-3.68	≤20.97	PASS
		2480	-2.58	≤20.97	PASS
2DH5	Ant1	2402	-3.87	≤20.97	PASS
		2441	-2.89	≤20.97	PASS
		2480	0.1	≤20.97	PASS



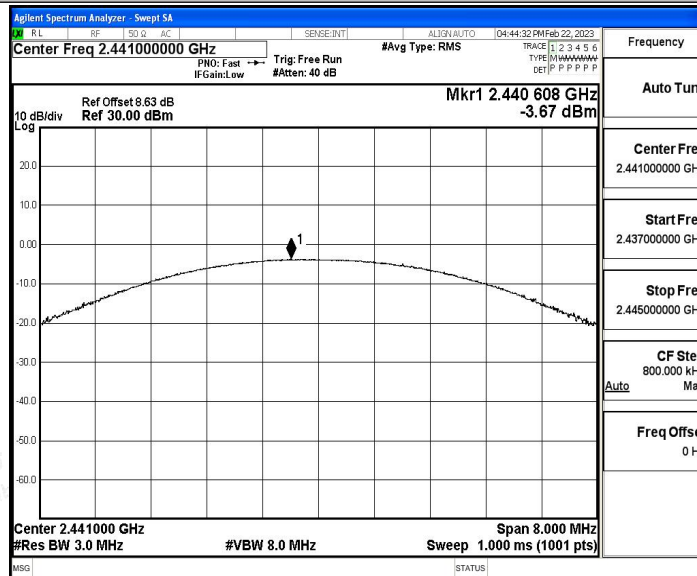


Test Graphs

DH5_Ant1_2402

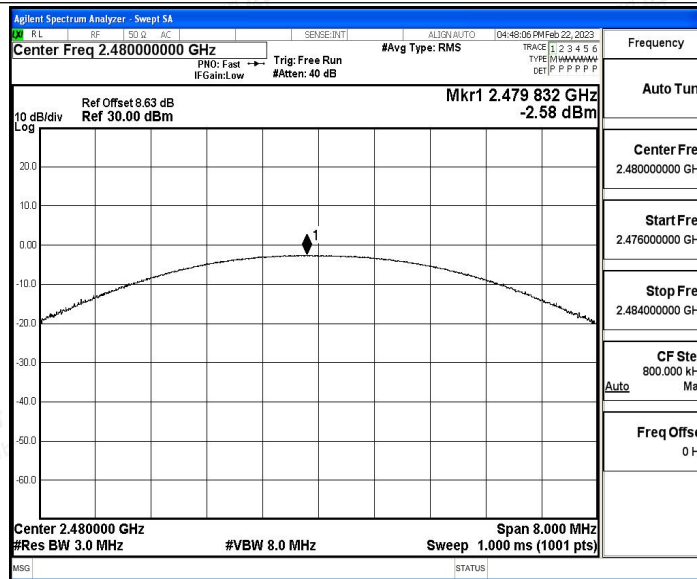


DH5_Ant1_2441

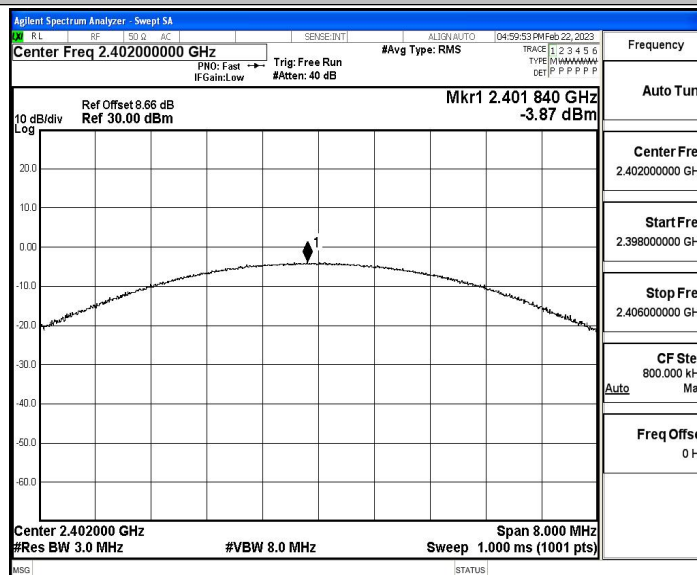


DH5_Ant1_2480



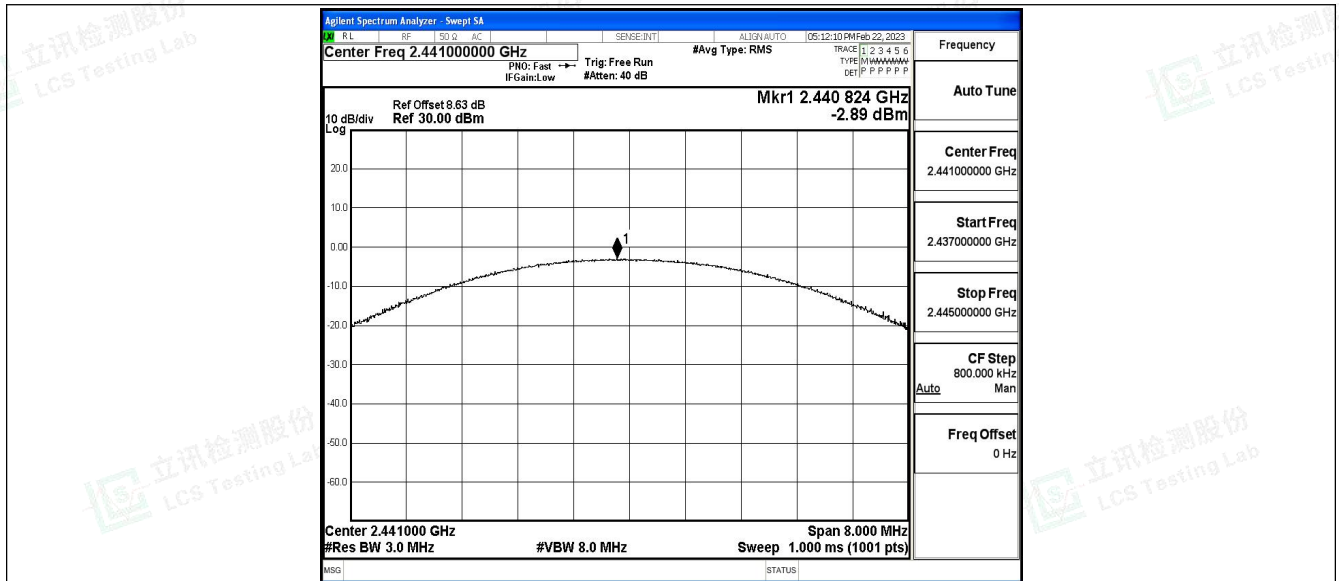


2DH5_Ant1_2402

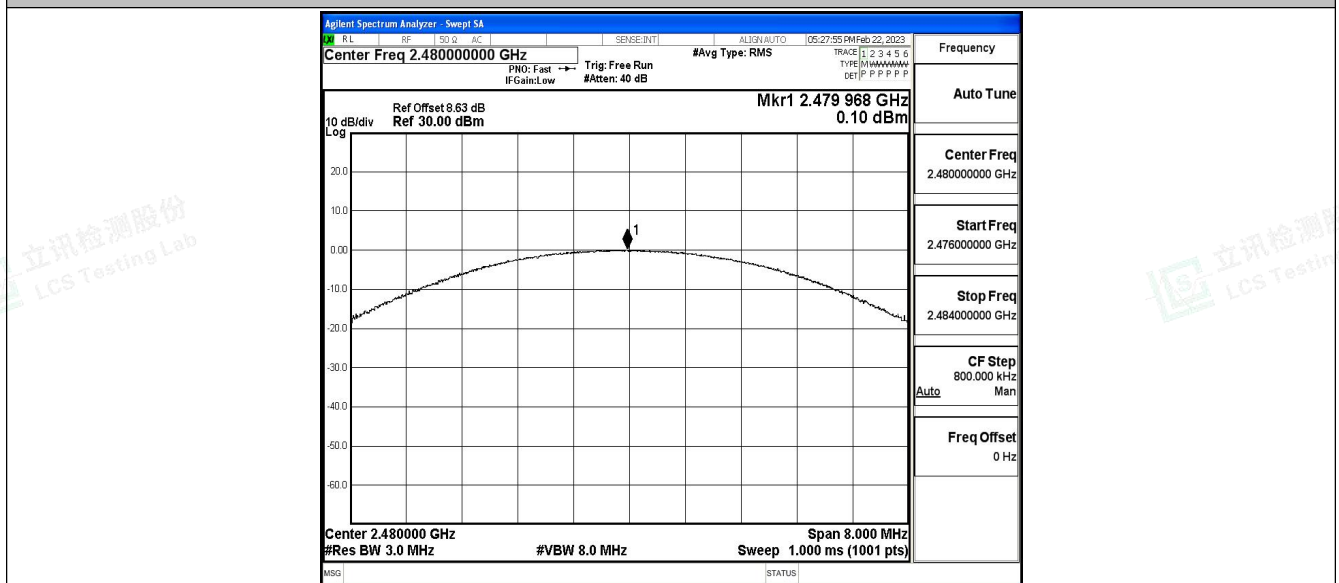


2DH5_Ant1_2441





2DH5_Ant1_2480





A.3 Carrier frequency separation

Test Result

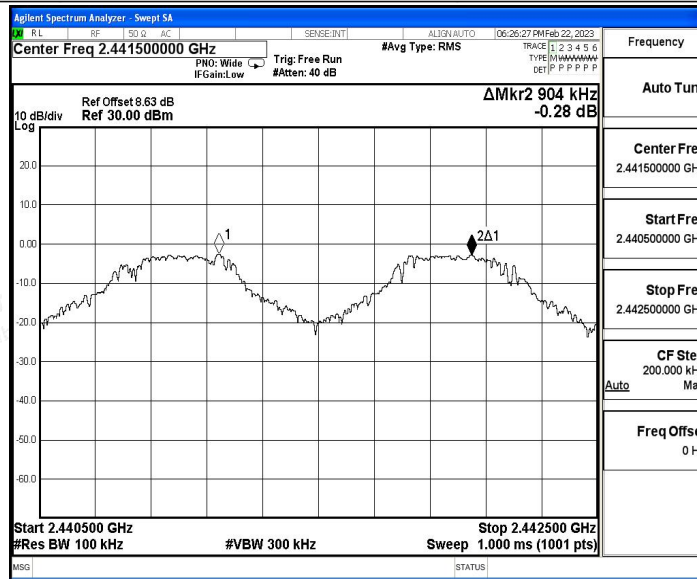
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.904	≥0.638	PASS
2DH5	Ant1	Hop	1.018	≥0.904	PASS



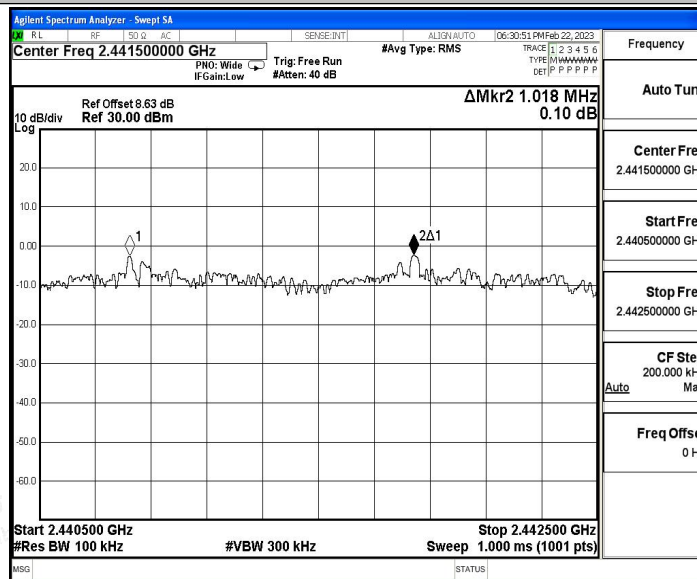


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.4 Time of occupancy

Test Result

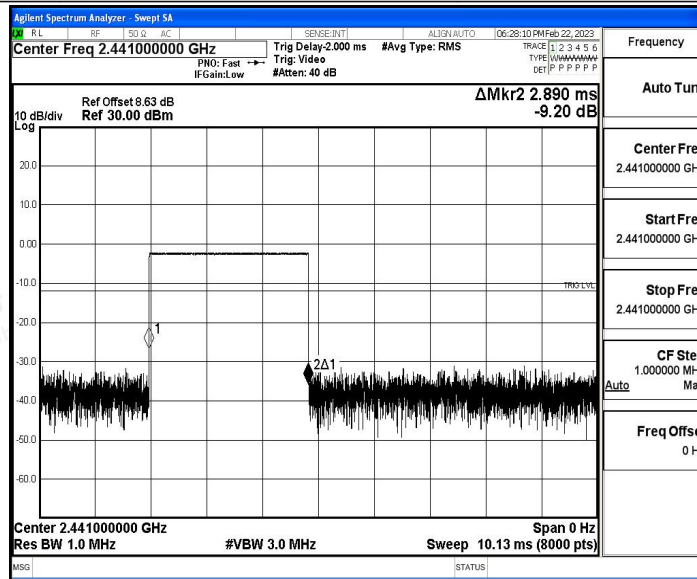
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS



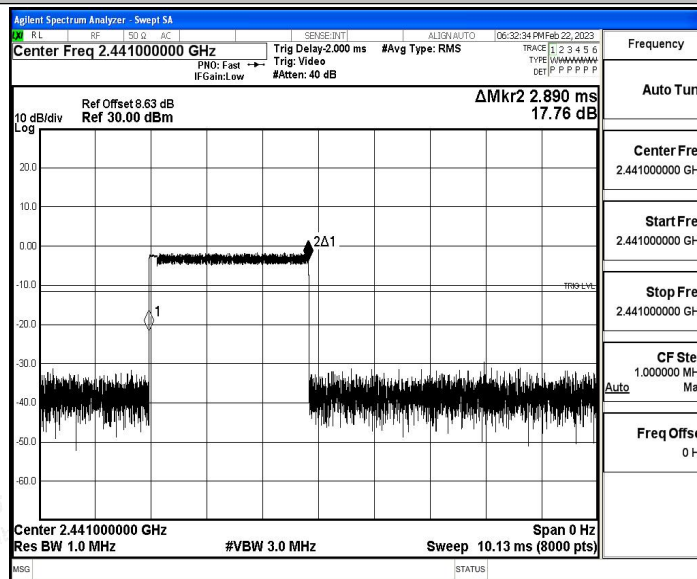


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.5 Number of hopping channels

Test Result

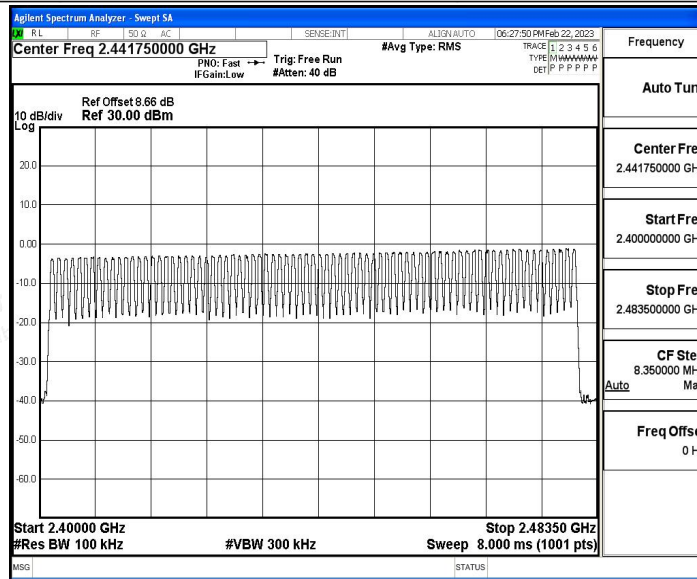
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS



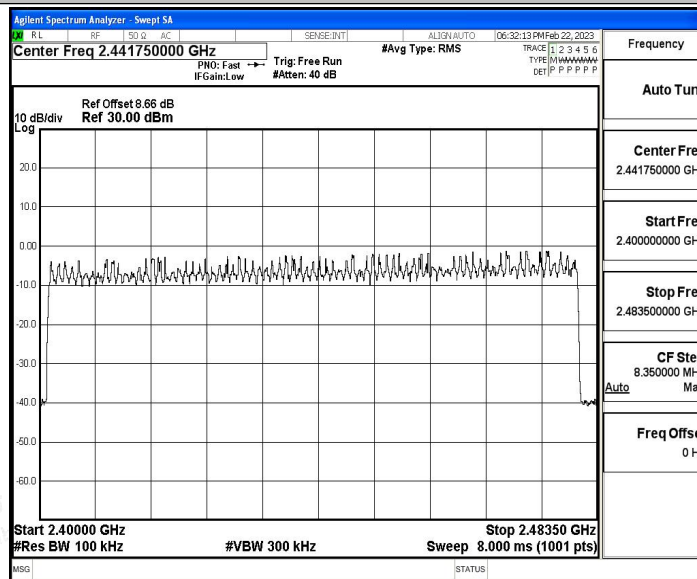


Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop





A.6 Band edge measurements

Test Result

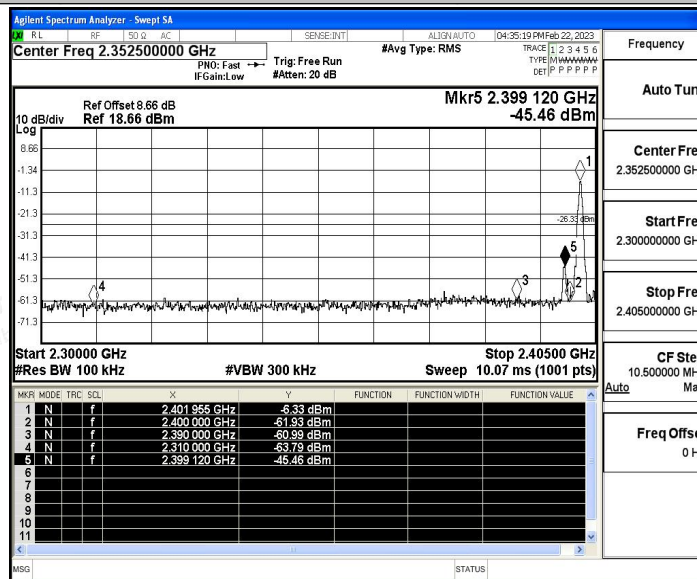
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-6.33	-45.46	≤-26.33	PASS
		High	2480	-4.03	-54.39	≤-24.03	PASS
		Low	Hop_2402	-3.82	-55.74	≤-23.82	PASS
		High	Hop_2480	-1.63	-53.73	≤-21.63	PASS
2DH5	Ant1	Low	2402	-9.67	-48.17	≤-29.67	PASS
		High	2480	-4.30	-53.89	≤-24.3	PASS
		Low	Hop_2402	-4.70	-54.92	≤-24.7	PASS
		High	Hop_2480	-1.37	-55.43	≤-21.37	PASS



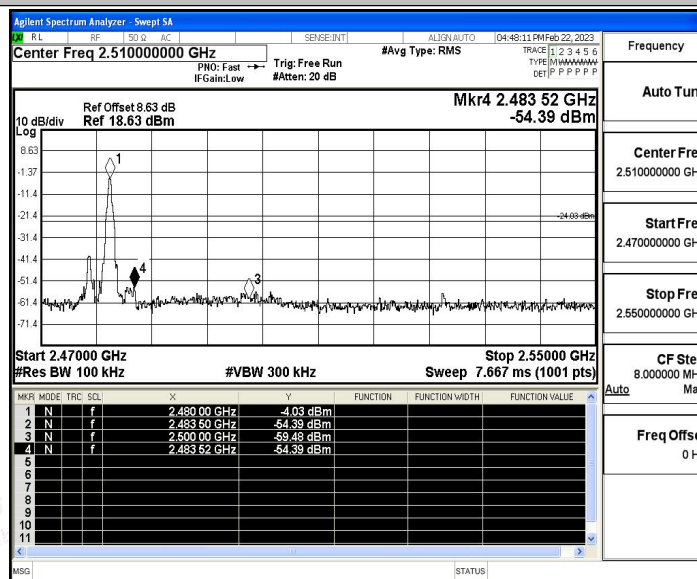


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

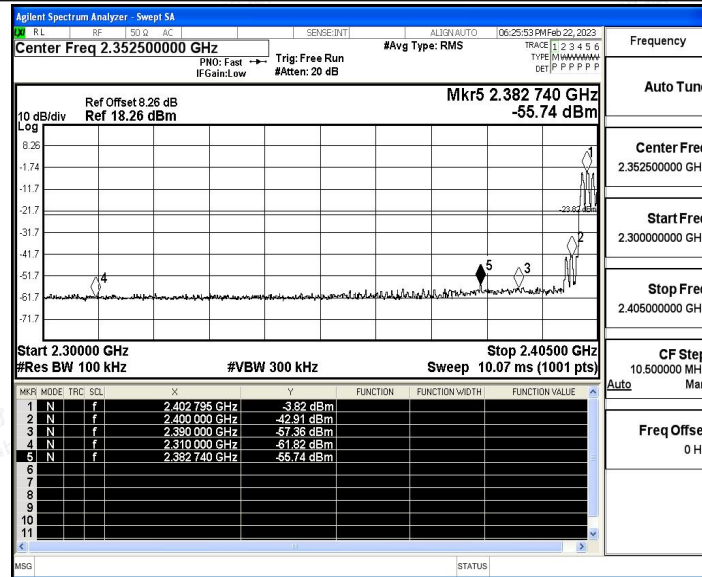


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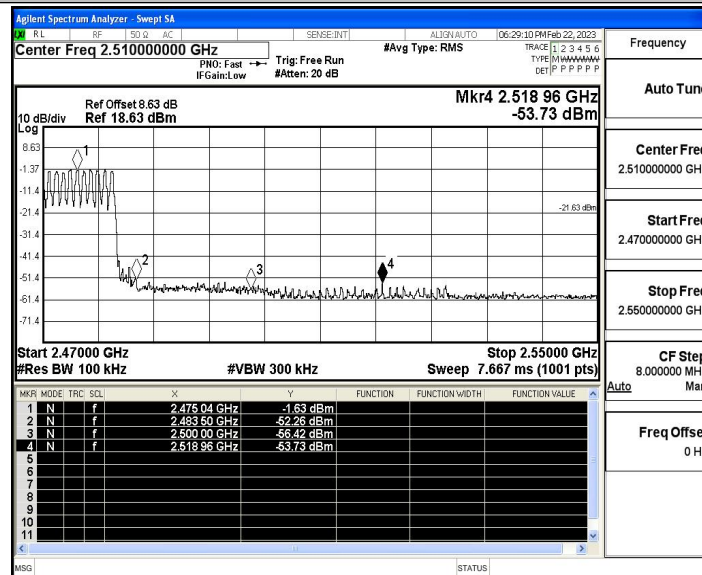
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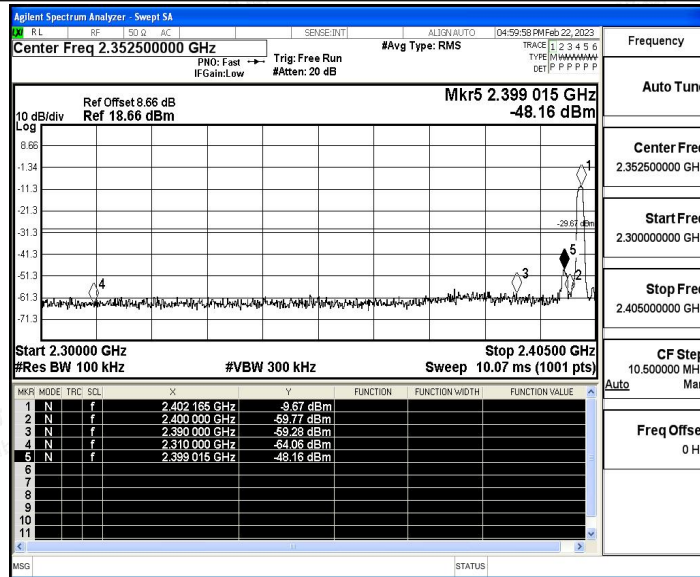


DH5_Ant1_High_Hop_2480

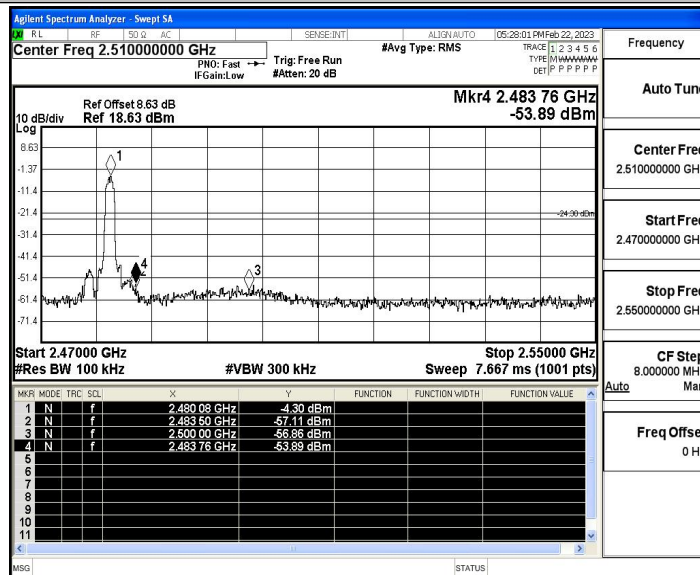


2DH5_Ant1_Low_2402



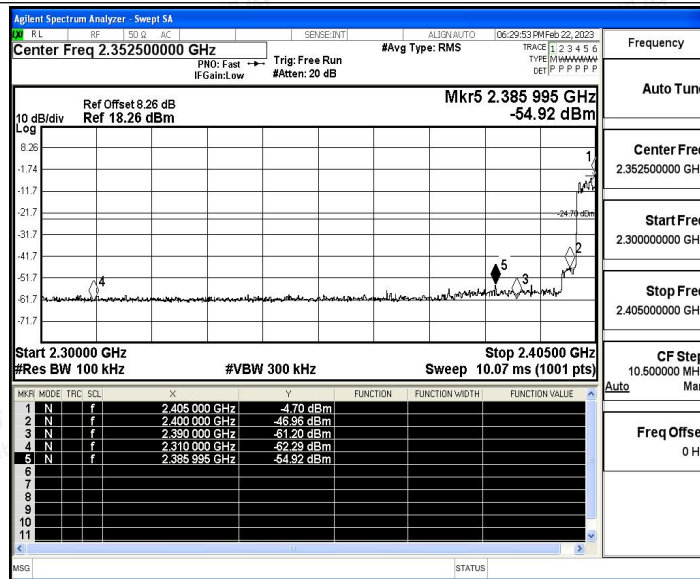


2DH5_Ant1_High_2480

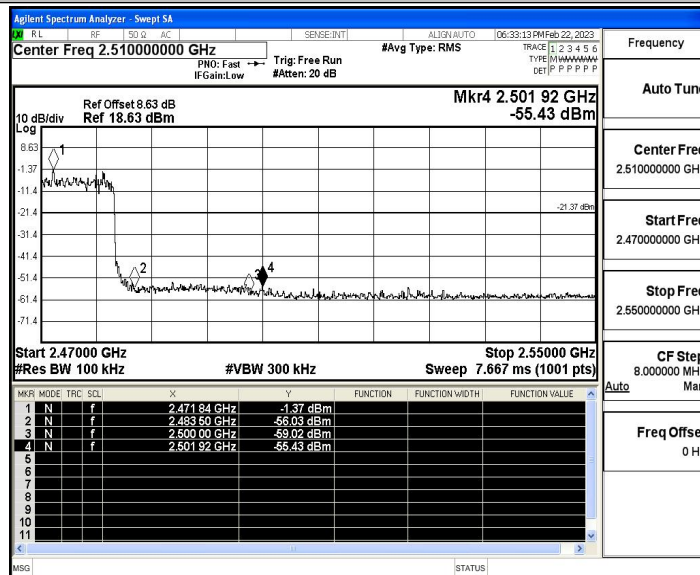


2DH5_Ant1_Low_Hop_2402





2DH5_Ant1_High_Hop_2480



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A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-6.11	-6.11	---	PASS
			30~1000	-6.11	-50.44	≤ -26.11	PASS
			1000~26500	-6.11	-46.11	≤ -26.11	PASS
		2441	Reference	-4.74	-4.74	---	PASS
			30~1000	-4.74	-53.23	≤ -24.74	PASS
			1000~26500	-4.74	-45.77	≤ -24.74	PASS
		2480	Reference	-3.75	-3.75	---	PASS
			30~1000	-3.75	-36.18	≤ -23.75	PASS
			1000~26500	-3.75	-45.81	≤ -23.75	PASS
2DH5	Ant1	2402	Reference	-5.52	-5.52	---	PASS
			30~1000	-5.52	-46.36	≤ -25.52	PASS
			1000~26500	-5.52	-40.47	≤ -25.52	PASS
		2441	Reference	-7.70	-7.70	---	PASS
			30~1000	-7.70	-60.9	≤ -27.7	PASS
			1000~26500	-7.70	-36.3	≤ -27.7	PASS
		2480	Reference	-5.79	-5.79	---	PASS
			30~1000	-5.79	-59.62	≤ -25.79	PASS
			1000~26500	-5.79	-46.06	≤ -25.79	PASS



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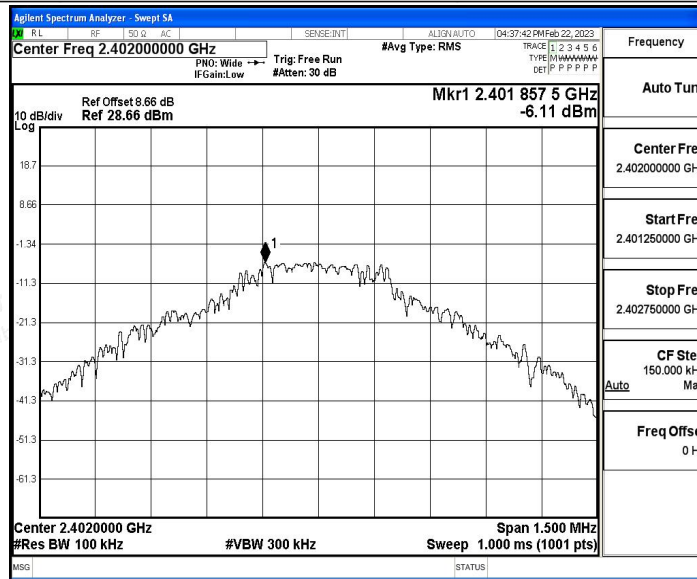
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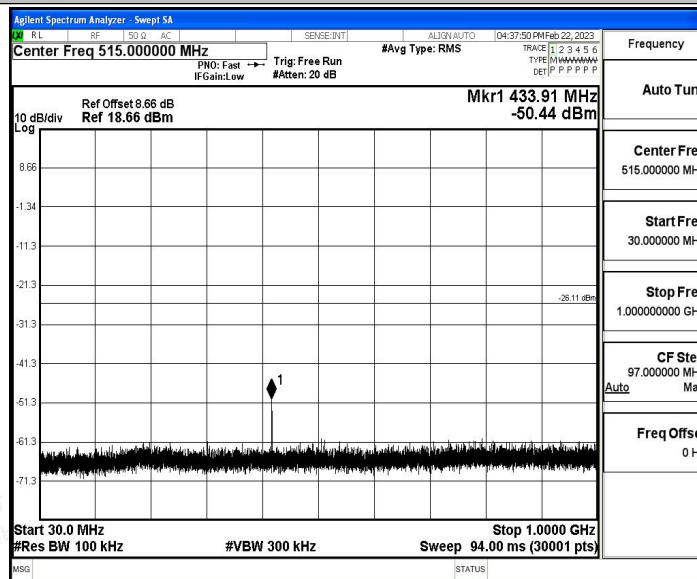


Test Graphs

DH5_Ant1_2402_0~Reference

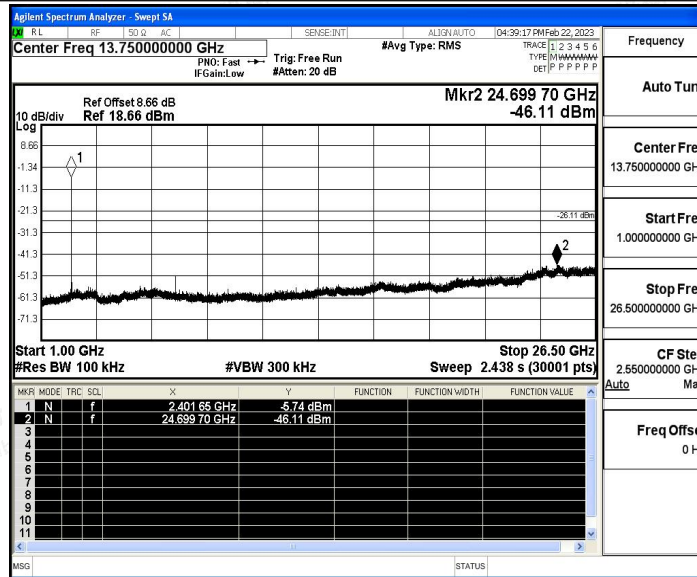


DH5_Ant1_2402_30~1000

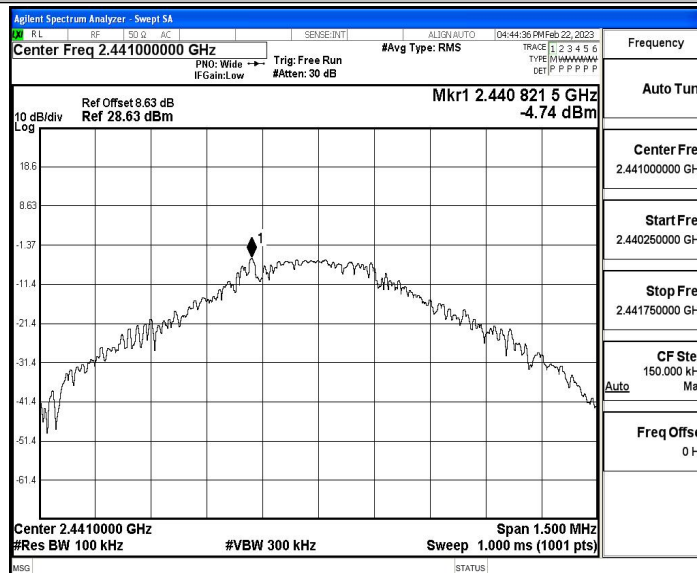


DH5_Ant1_2402_1000~26500





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

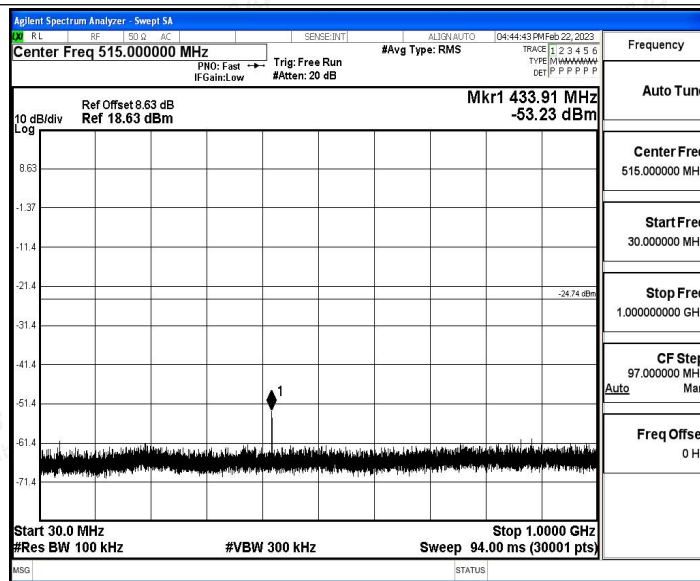


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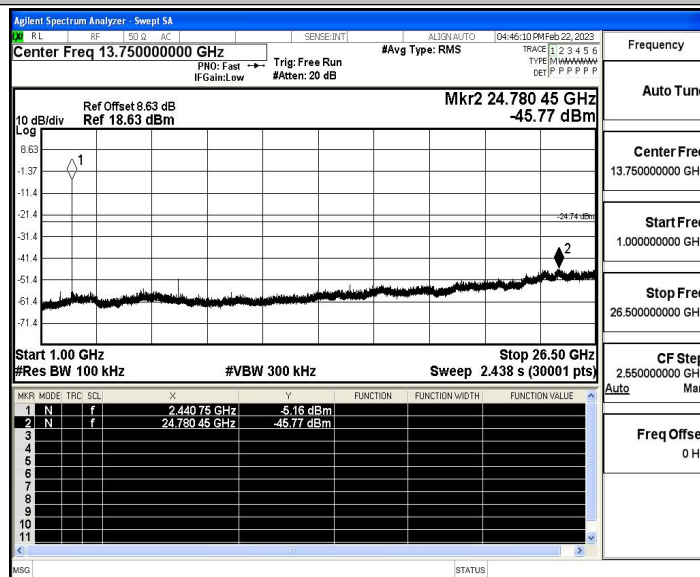
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



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