



Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Car diagnostics device

Test Model: F500

HVIN: F500

Environmental Conditions

Temperature:	23.1° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Monkey Li
Supervised by:	Li huan



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A.1 20dB Emission Bandwidth

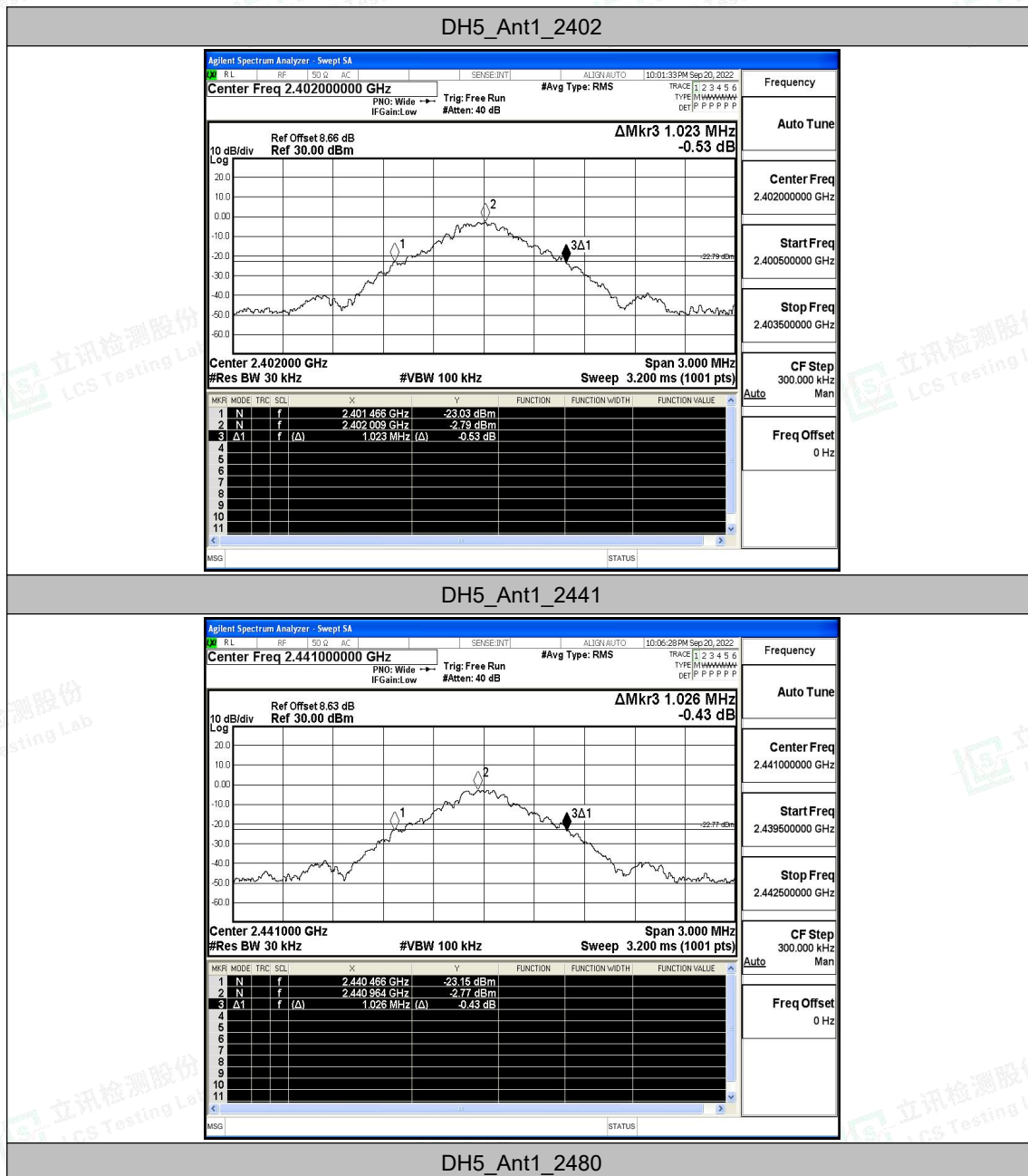
Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.023	2401.466	2402.489	---
		2441	1.026	2440.466	2441.492	---
		2480	1.029	2479.460	2480.489	---
2DH5	Ant1	2402	1.275	2401.370	2402.645	---
		2441	1.320	2440.340	2441.660	---
		2480	1.290	2479.364	2480.654	---
3DH5	Ant1	2402	1.308	2401.349	2402.657	---
		2441	1.308	2440.349	2441.657	---
		2480	1.314	2479.346	2480.660	---





Test Graphs

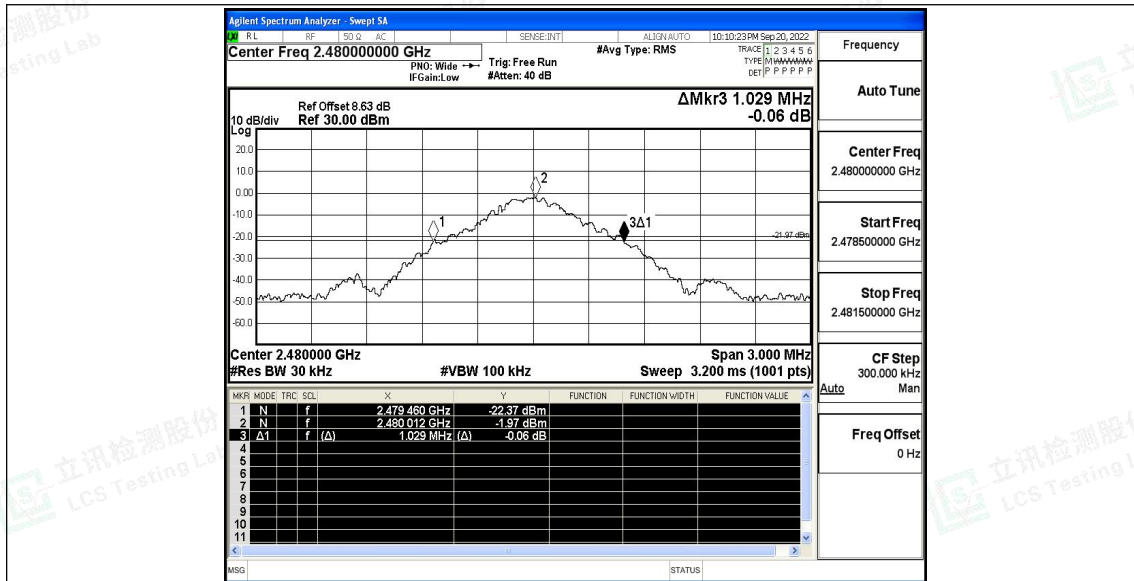


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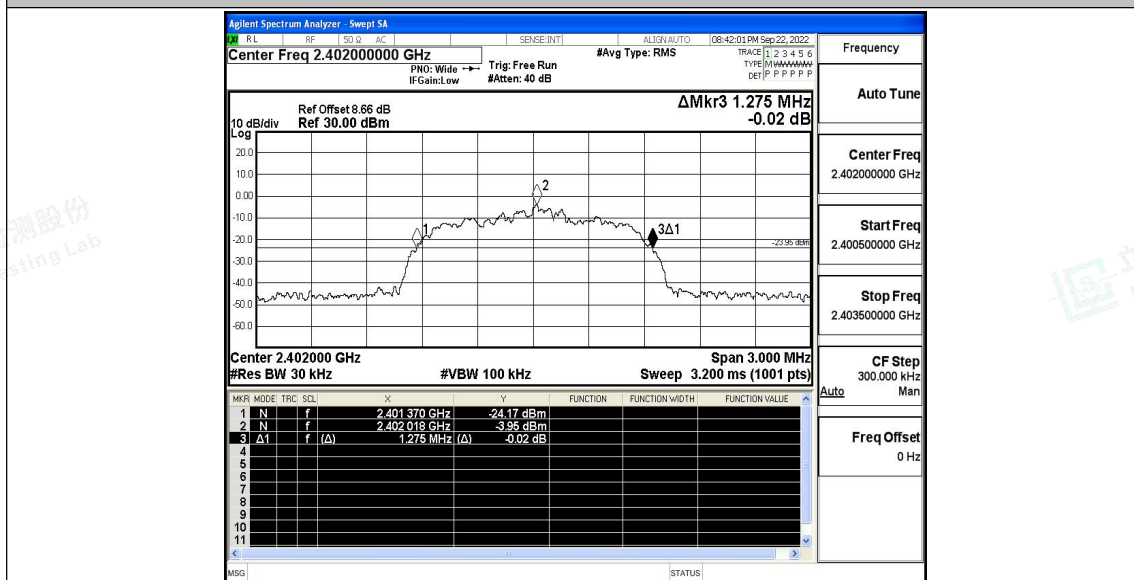
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2DH5_Ant1_2402



2DH5_Ant1_2441

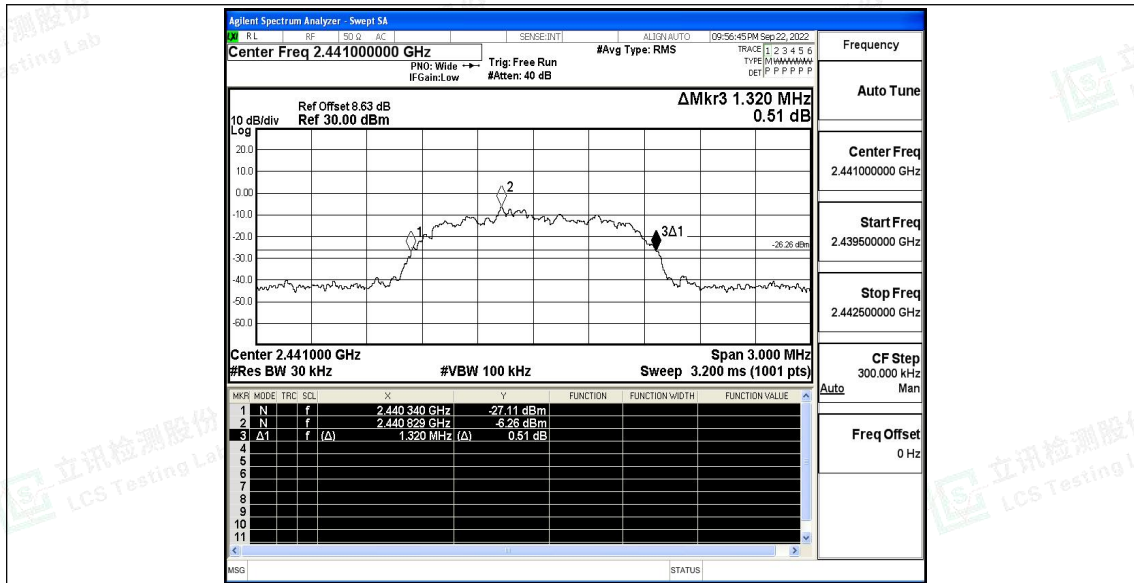


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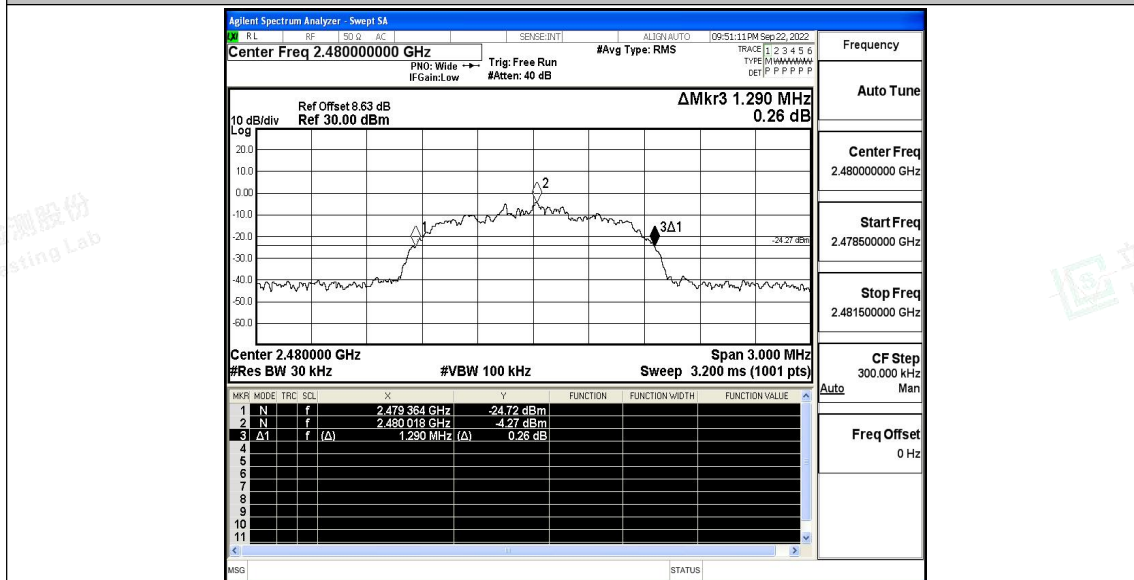
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2DH5_Ant1_2480



3DH5_Ant1_2402

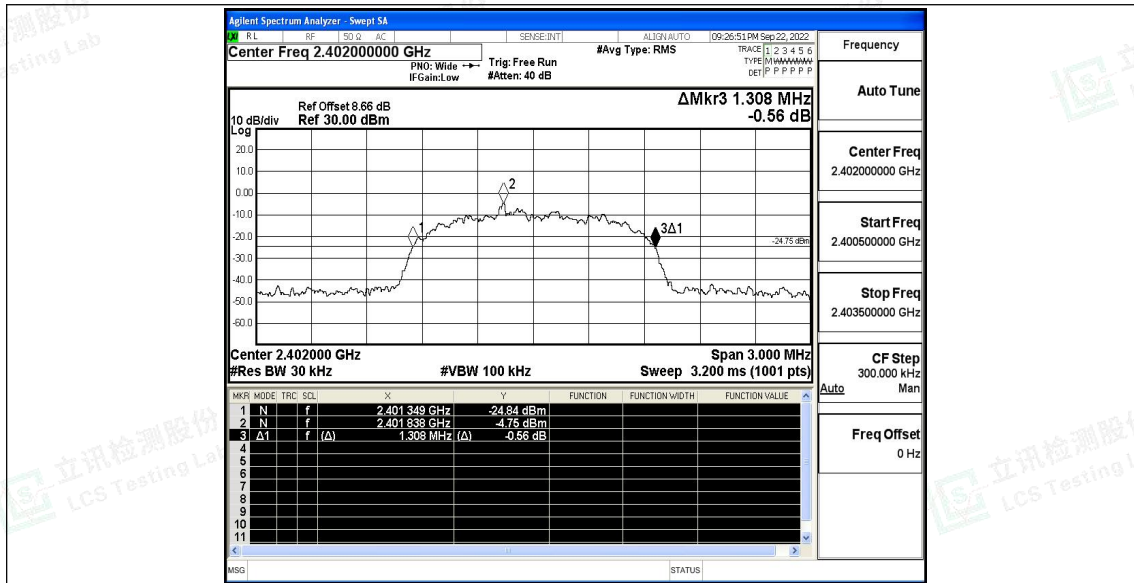


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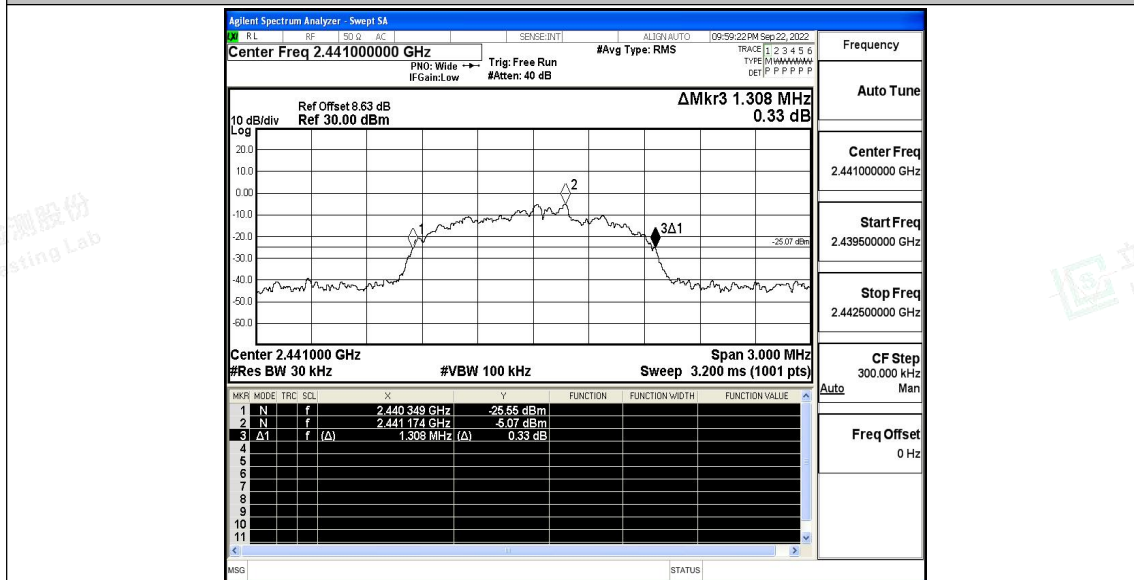
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3DH5_Ant1_2441



3DH5_Ant1_2480

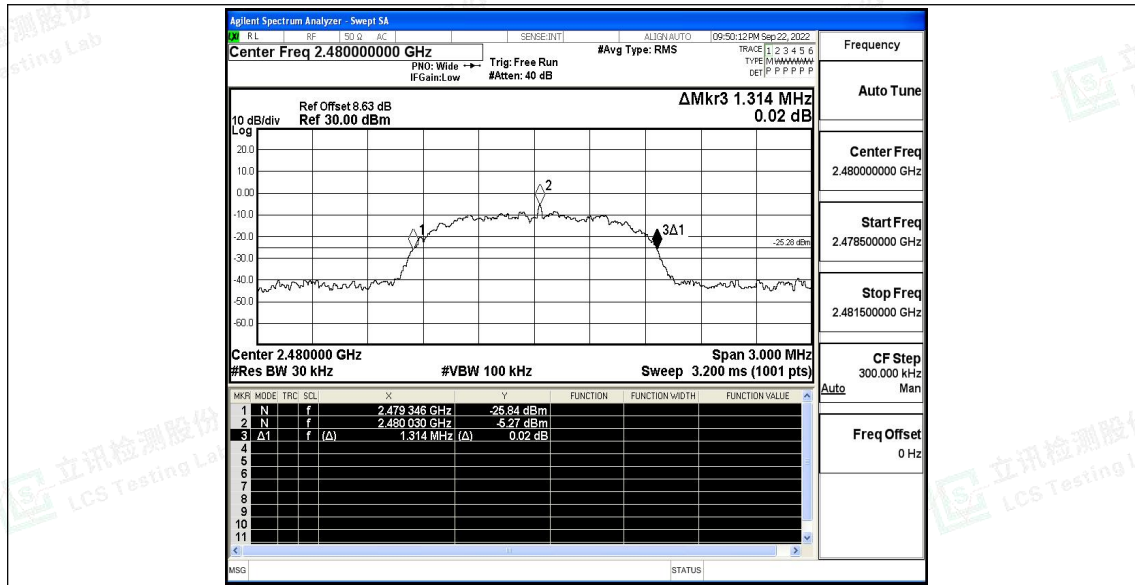


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A.2 Occupied Channel Bandwidth

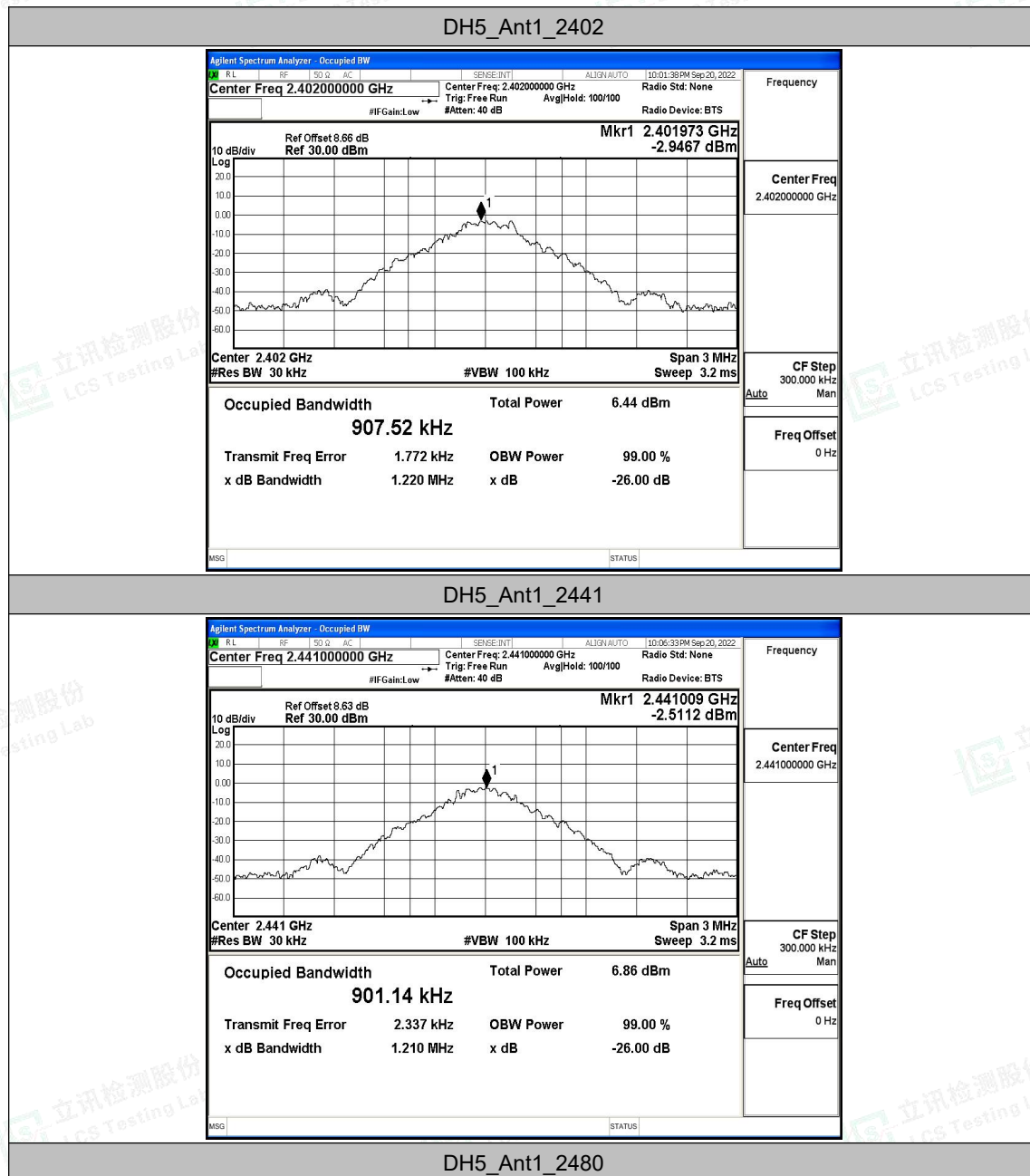
Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90752	2401.5480	2402.4555	---	---
		2441	0.90114	2440.5518	2441.4529	---	---
		2480	0.91152	2479.5472	2480.4587	---	---
2DH5	Ant1	2402	1.1836	2401.4086	2402.5922	---	---
		2441	1.1803	2440.4107	2441.5910	---	---
		2480	1.1983	2479.4018	2480.6001	---	---
3DH5	Ant1	2402	1.1778	2401.4137	2402.5915	---	---
		2441	1.2040	2440.3962	2441.6002	---	---
		2480	1.1853	2479.4167	2480.6020	---	---





Test Graphs

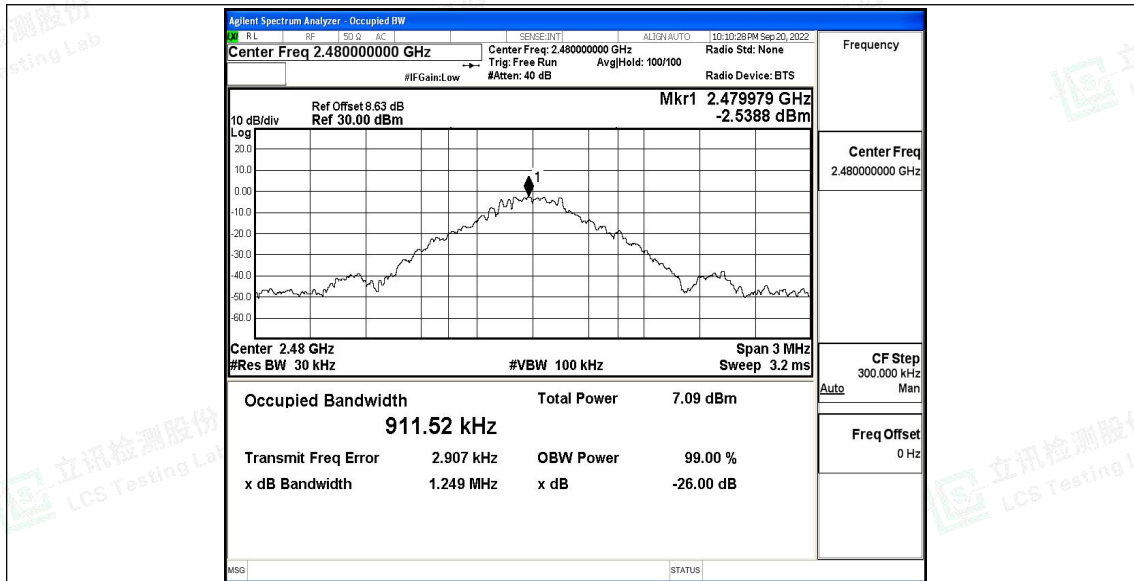


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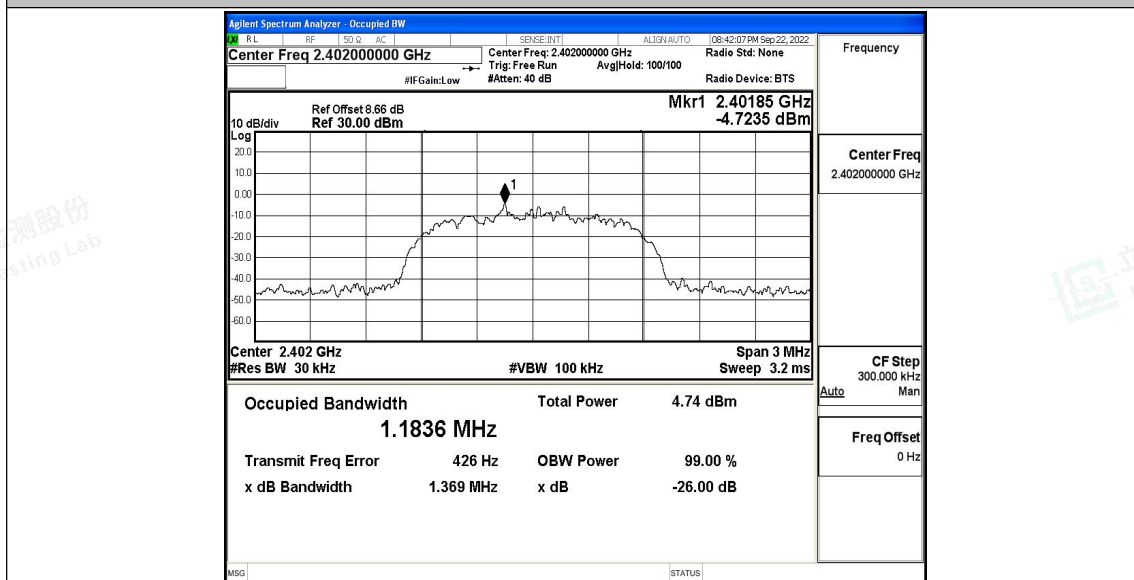
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2DH5_Ant1_2402



2DH5_Ant1_2441

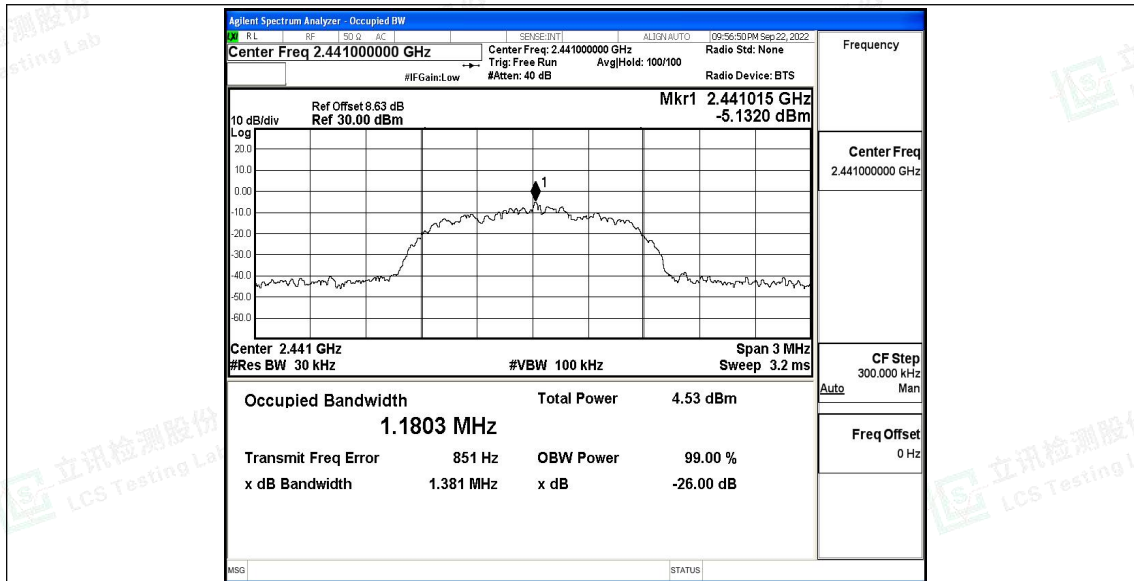


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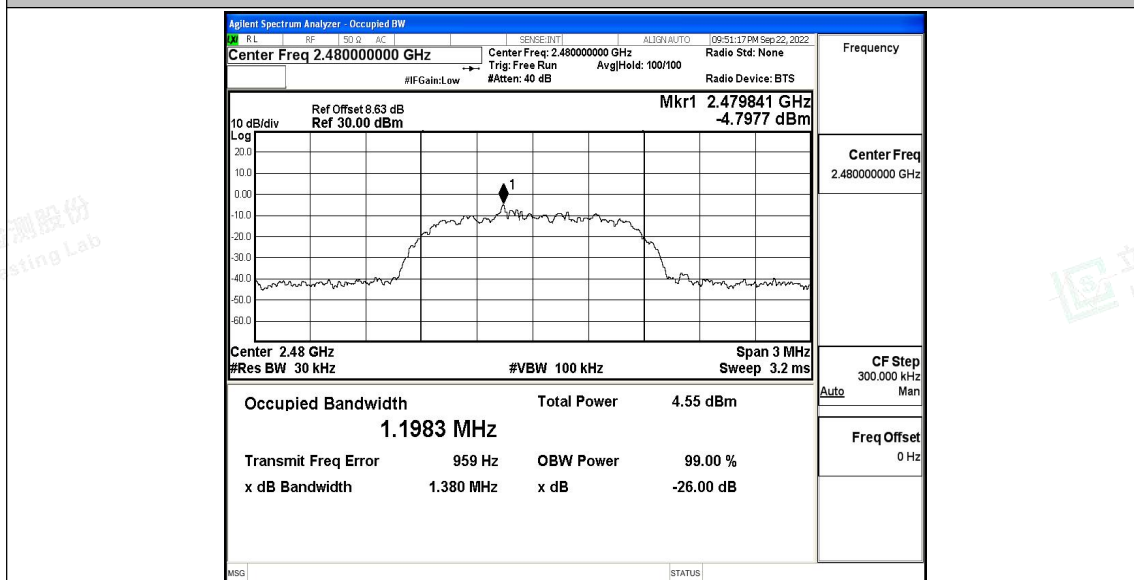
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2DH5_Ant1_2480



3DH5_Ant1_2402

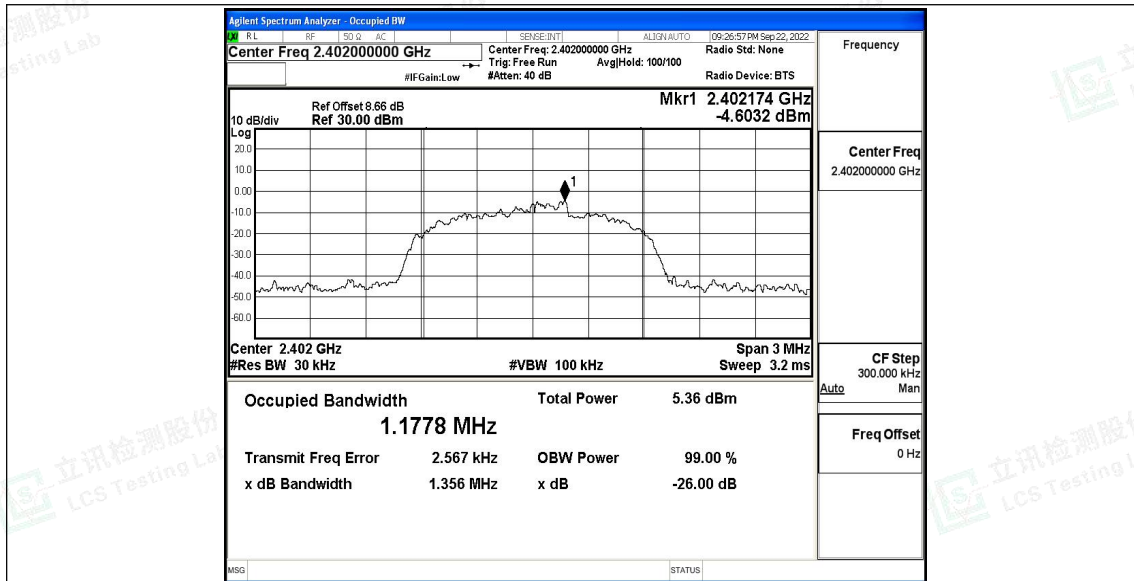


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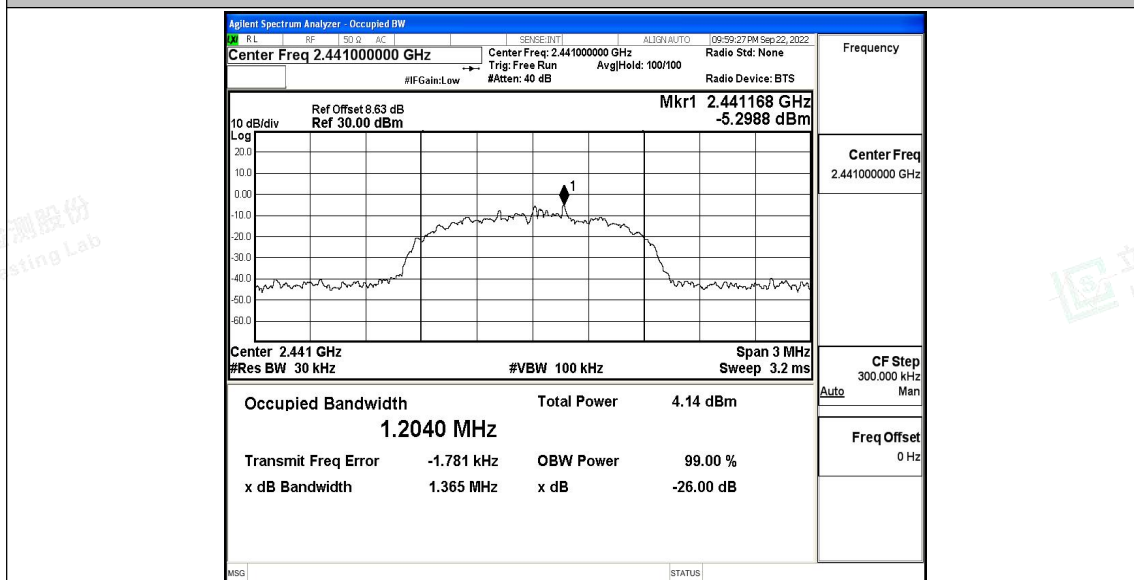
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3DH5_Ant1_2441



3DH5_Ant1_2480

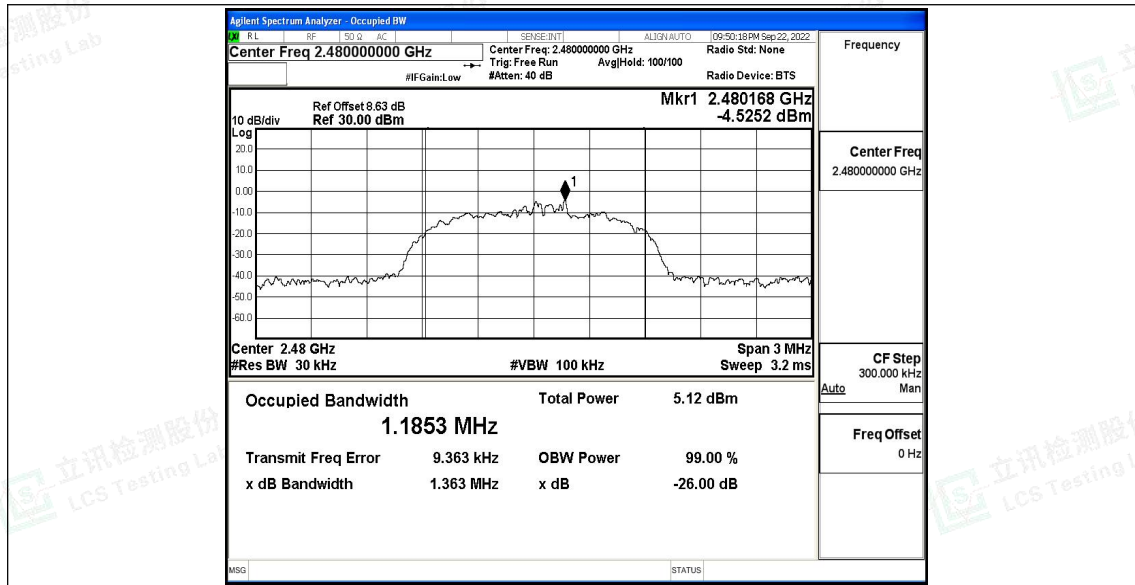


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A.3 Maximum conducted output power and e.i.r.p.

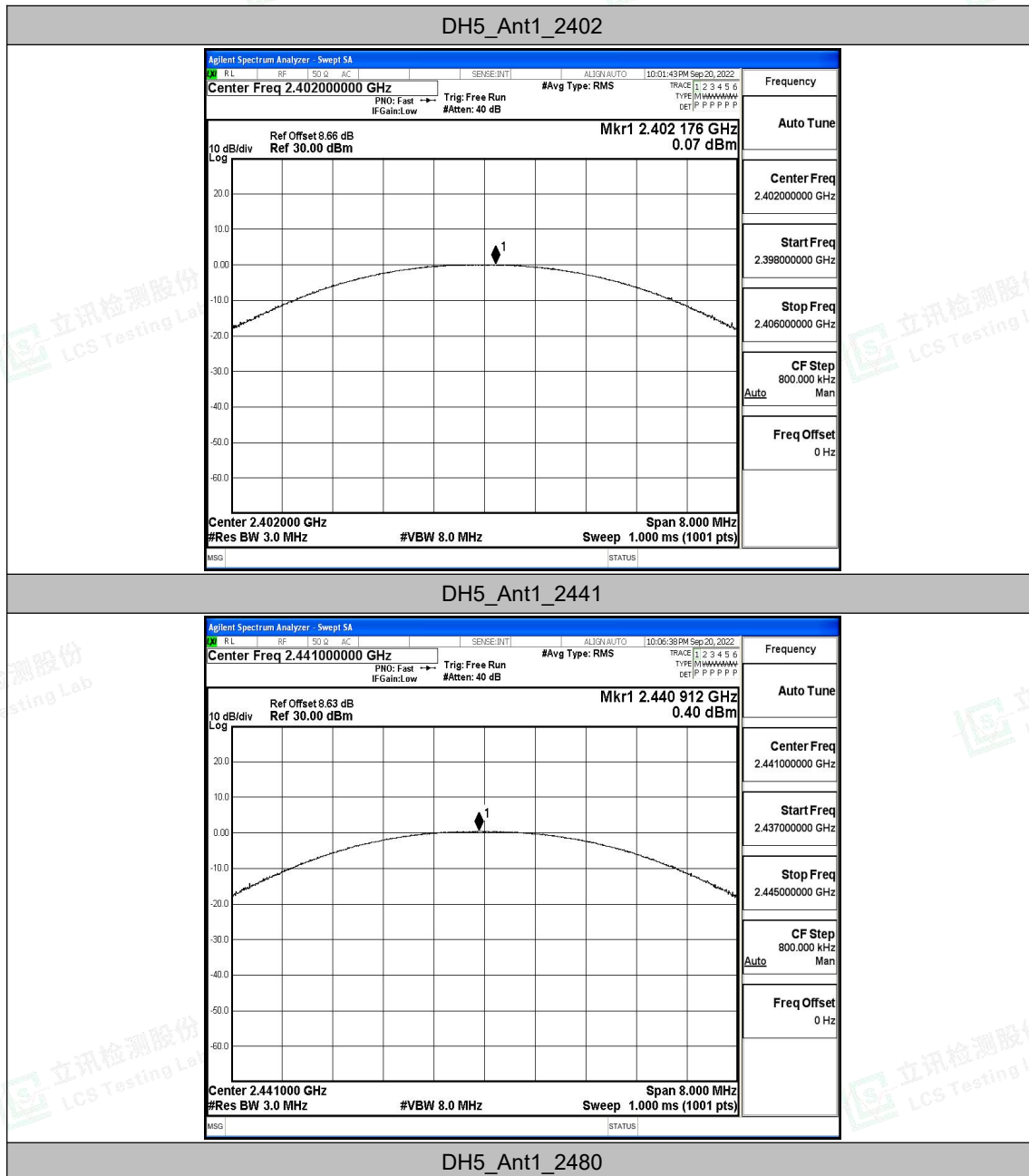
Test Result

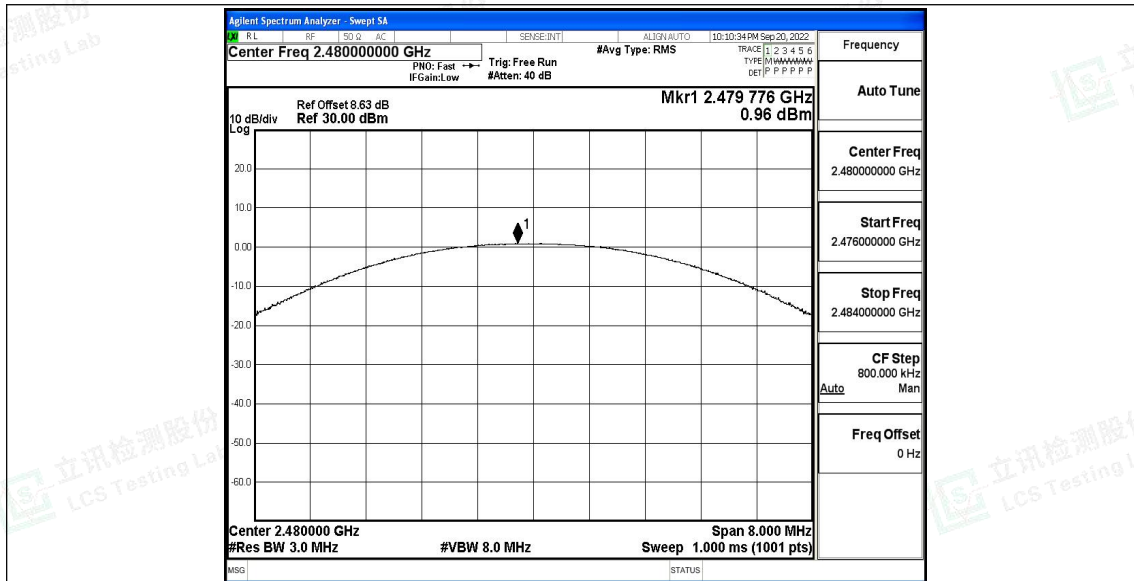
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
DH5	Ant1	2402	0.07	≤20.97	2.99	3.06	≤36	Pass
		2441	0.4	≤20.97	2.99	3.39	≤36	Pass
		2480	0.96	≤20.97	2.99	3.95	≤36	Pass
2DH5	Ant1	2402	0.54	≤20.97	2.99	3.53	≤36	Pass
		2441	-0.67	≤20.97	2.99	2.32	≤36	Pass
		2480	0.19	≤20.97	2.99	3.18	≤36	Pass
3DH5	Ant1	2402	0.17	≤20.97	2.99	3.16	≤36	Pass
		2441	-0.57	≤20.97	2.99	2.42	≤36	Pass
		2480	0.09	≤20.97	2.99	3.08	≤36	Pass



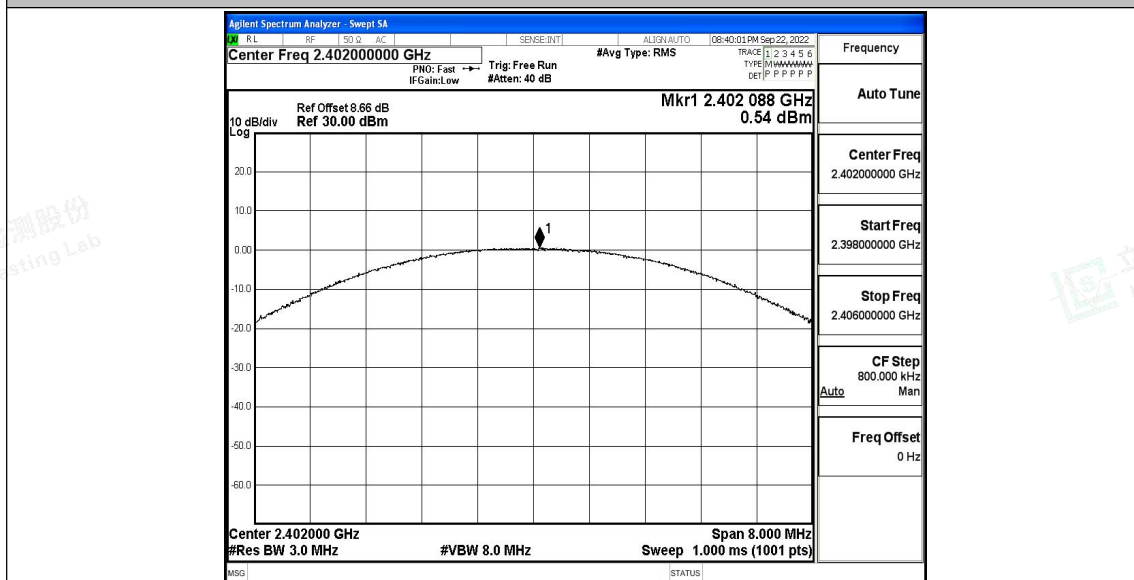


Test Graphs



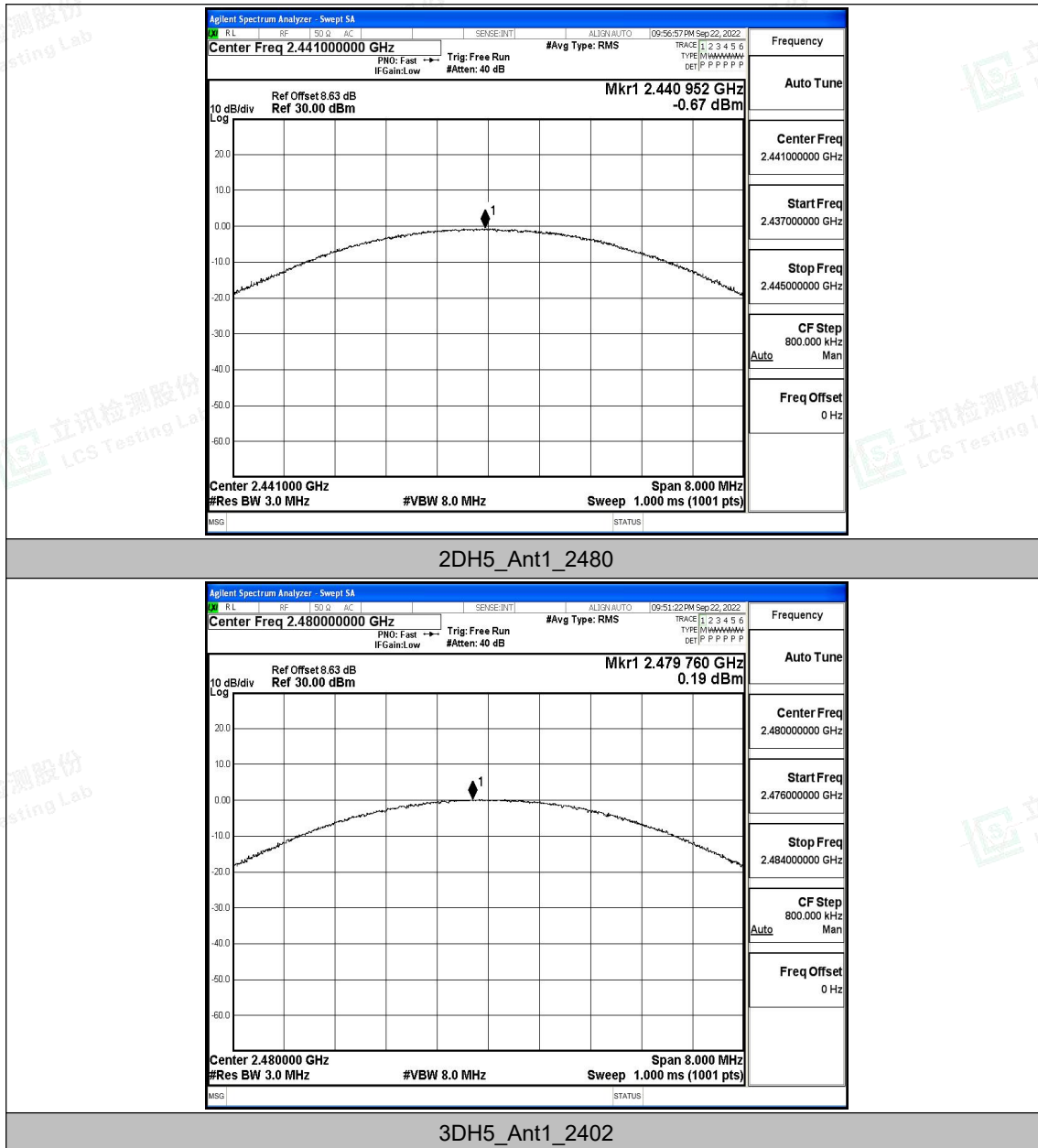


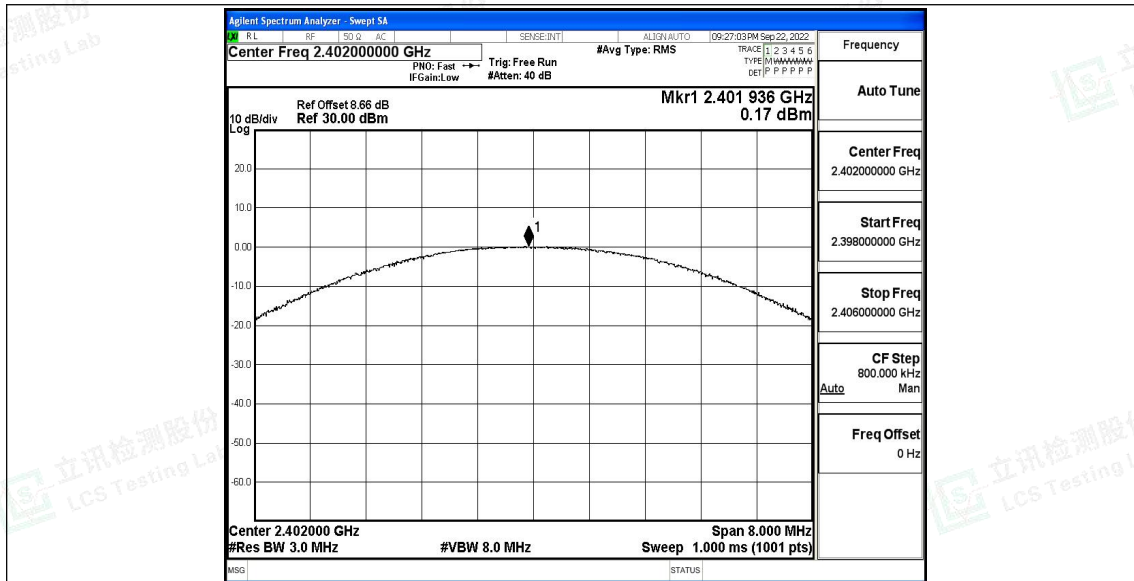
2DH5_Ant1_2402



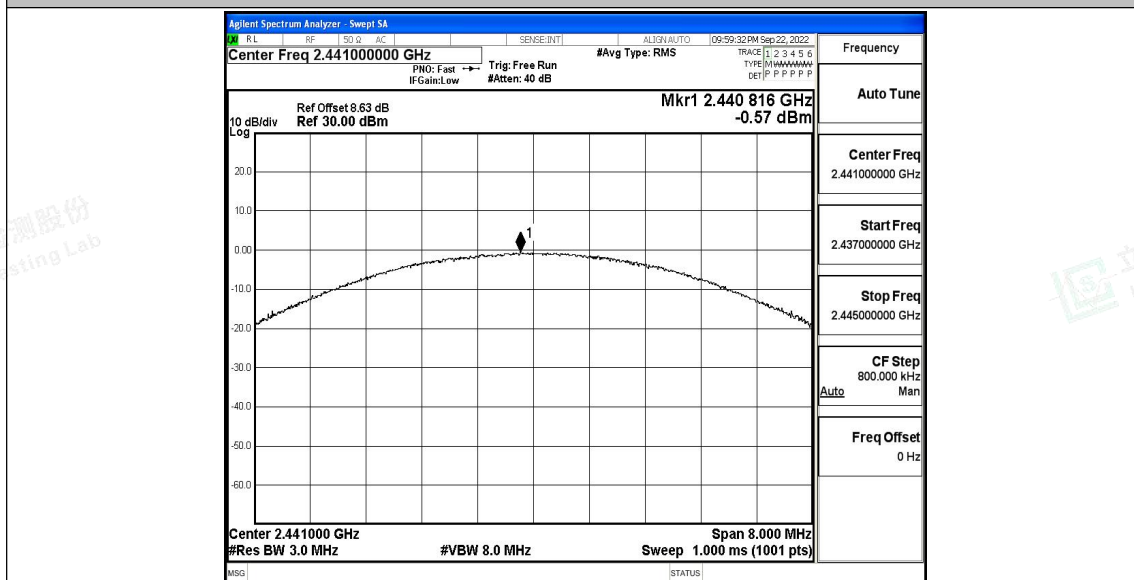
2DH5_Ant1_2441





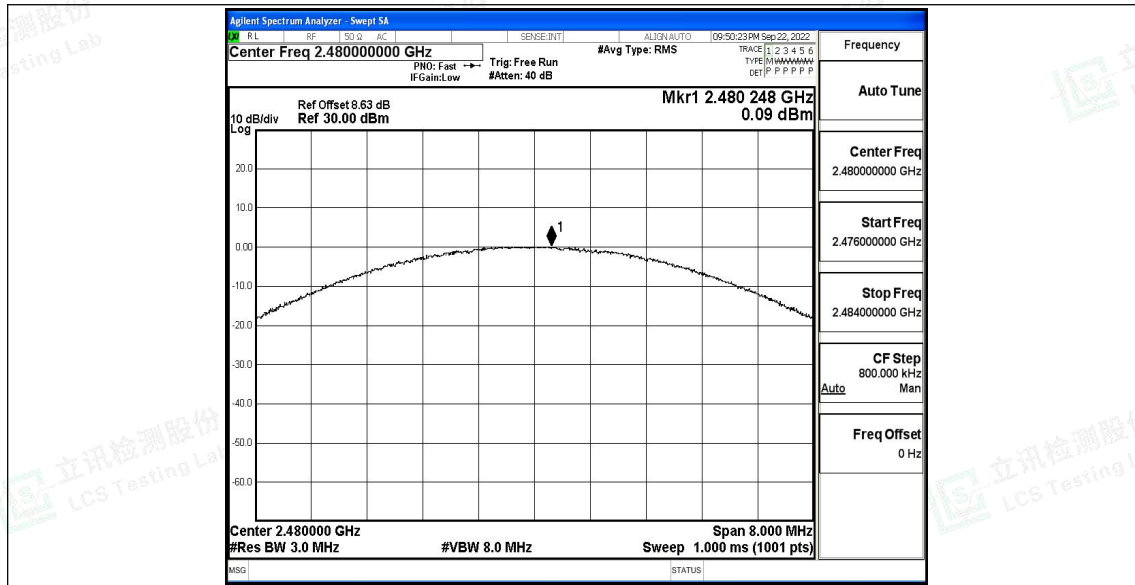


3DH5_Ant1_2441



3DH5_Ant1_2480







A.4 Carrier frequency separation

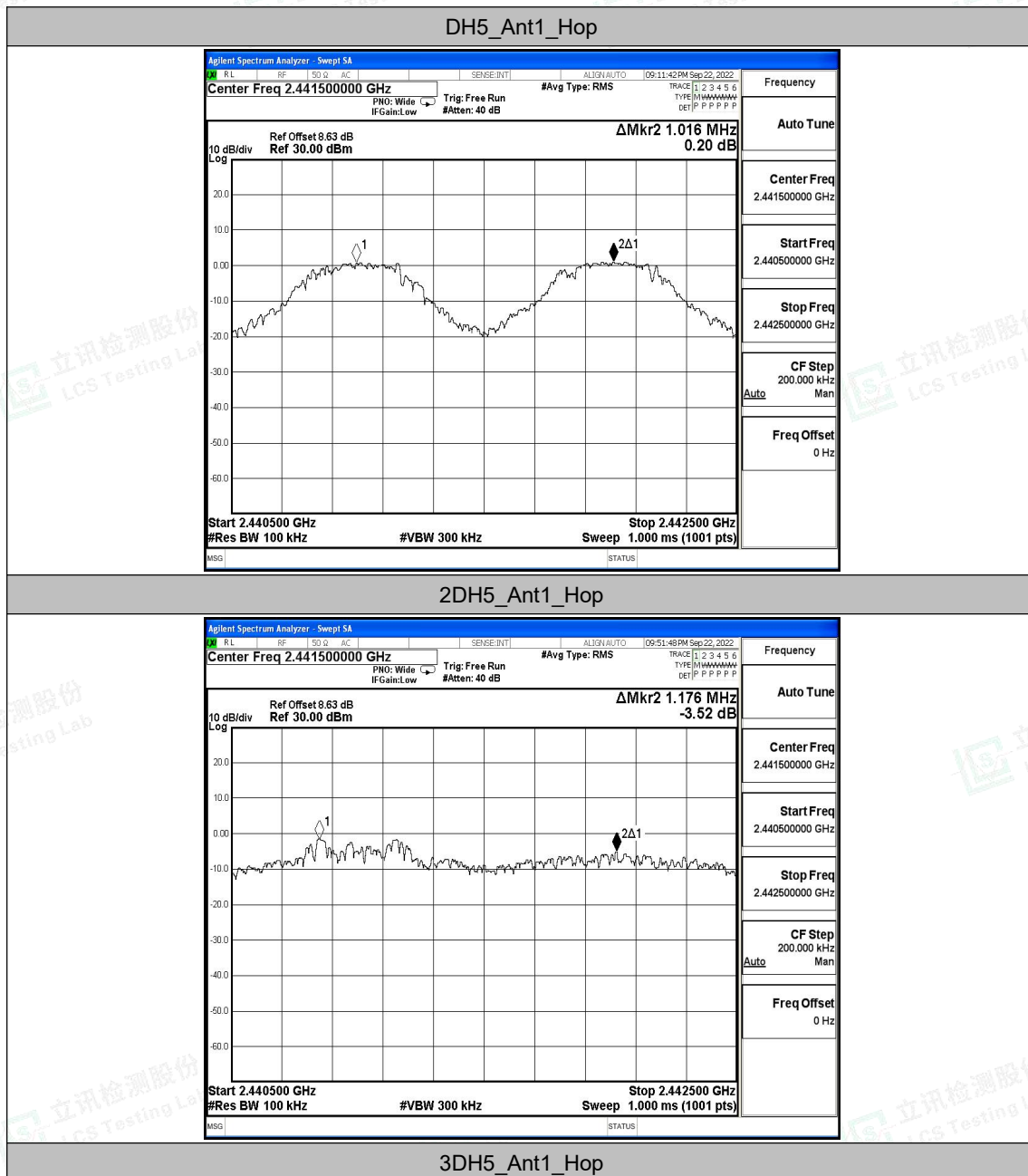
Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.016	≥ 0.686	PASS
2DH5	Ant1	Hop	1.176	≥ 0.880	PASS
3DH5	Ant1	Hop	0.882	≥ 0.874	PASS





Test Graphs

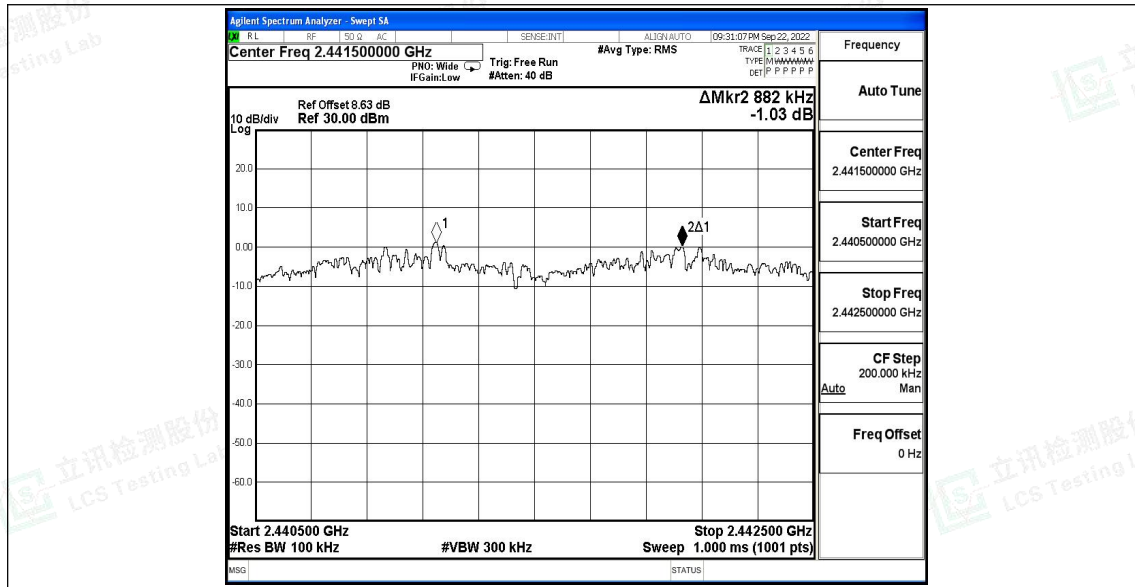


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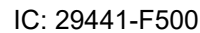


A.5 Time of occupancy

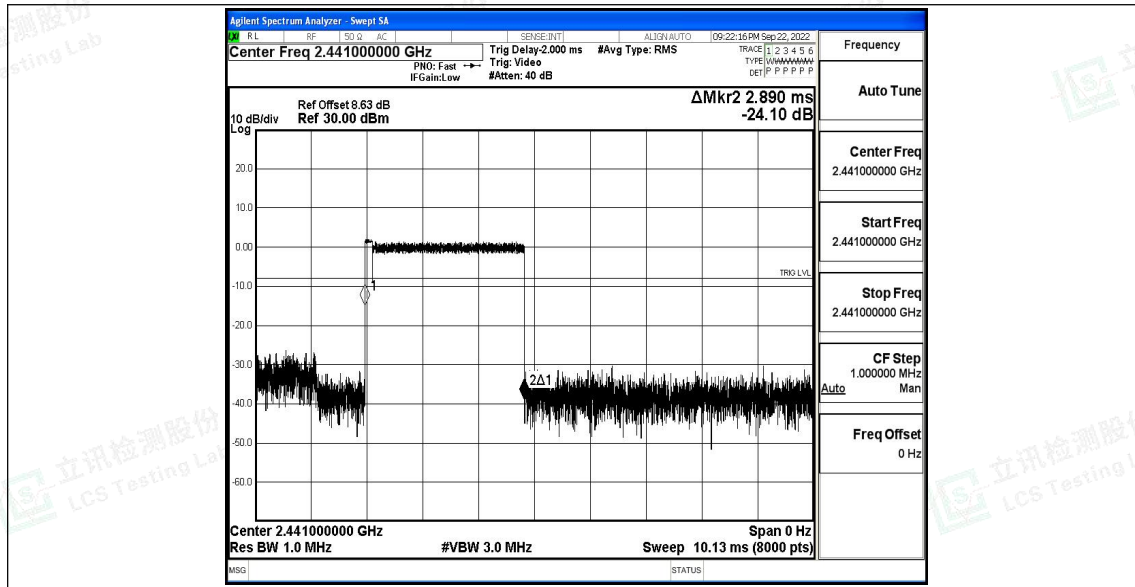
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS





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A.6 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

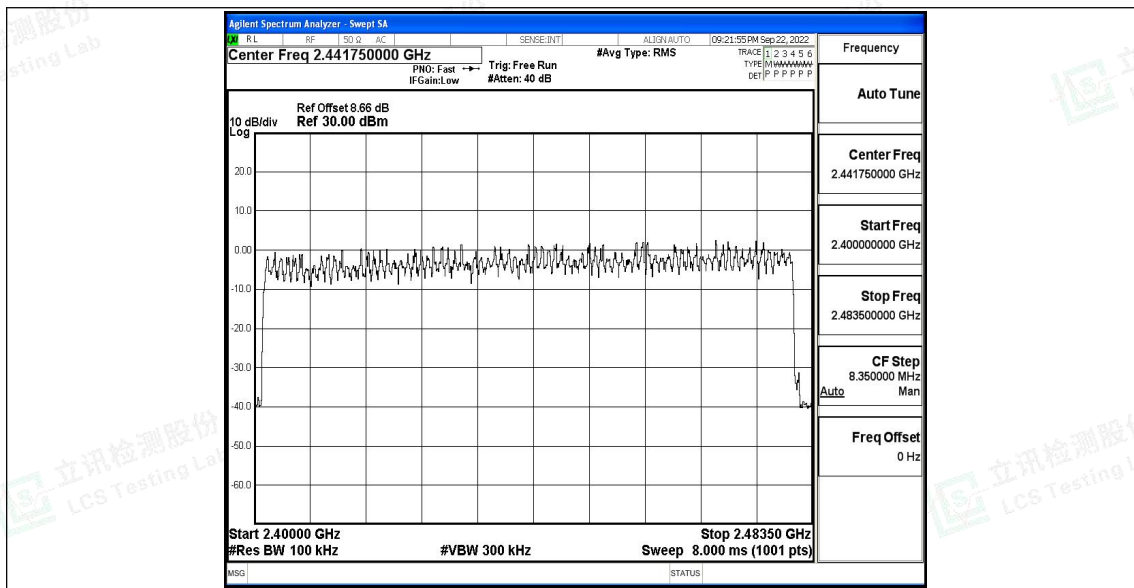


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A.7 Band edge measurements

Test Result

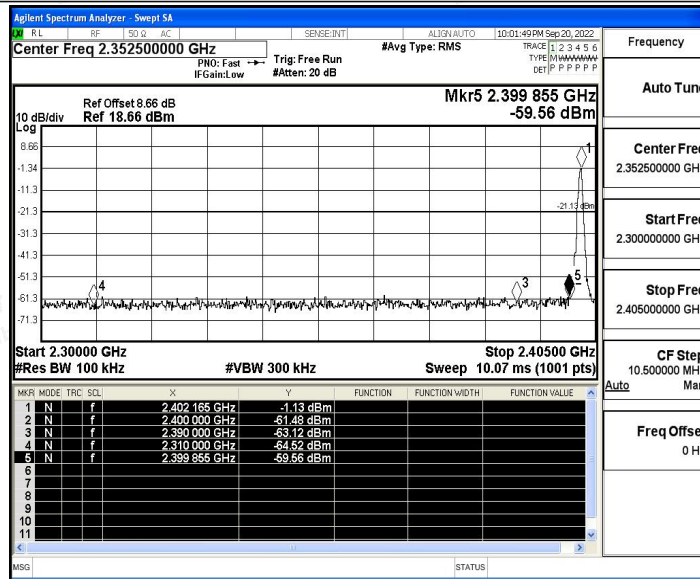
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.13	-59.56	≤ -21.13	PASS
		High	2480	0.18	-58.95	≤ -19.82	PASS
		Low	2402	-0.32	-59.14	≤ -20.32	PASS
		High	2480	2.32	-57.91	≤ -17.68	PASS
2DH5	Ant1	Low	2402	-4.58	-58.21	≤ -24.58	PASS
		High	2480	-1.56	-58.11	≤ -21.56	PASS
		Low	2402	-5.39	-58.18	≤ -25.39	PASS
		High	2480	0.05	-57.52	≤ -19.95	PASS
3DH5	Ant1	Low	2402	-4.74	-58.49	≤ -24.74	PASS
		High	2480	-2.26	-59.2	≤ -22.26	PASS
		Low	2402	-4.72	-58.86	≤ -24.72	PASS
		High	2480	2.62	-57.13	≤ -17.38	PASS



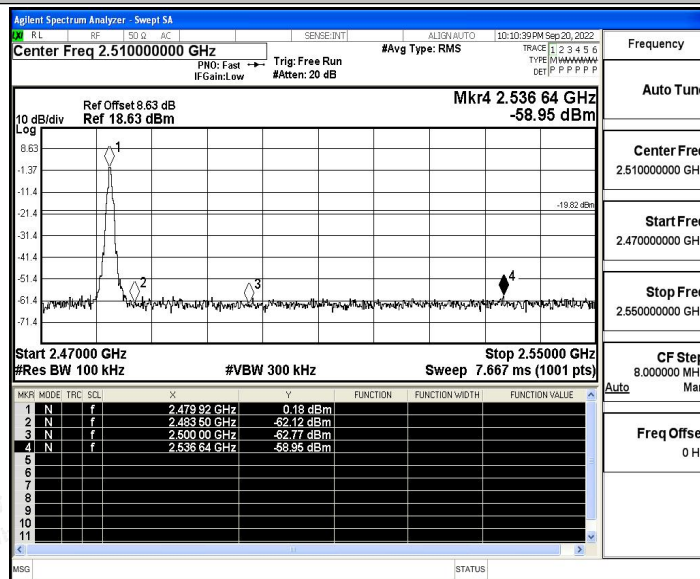


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

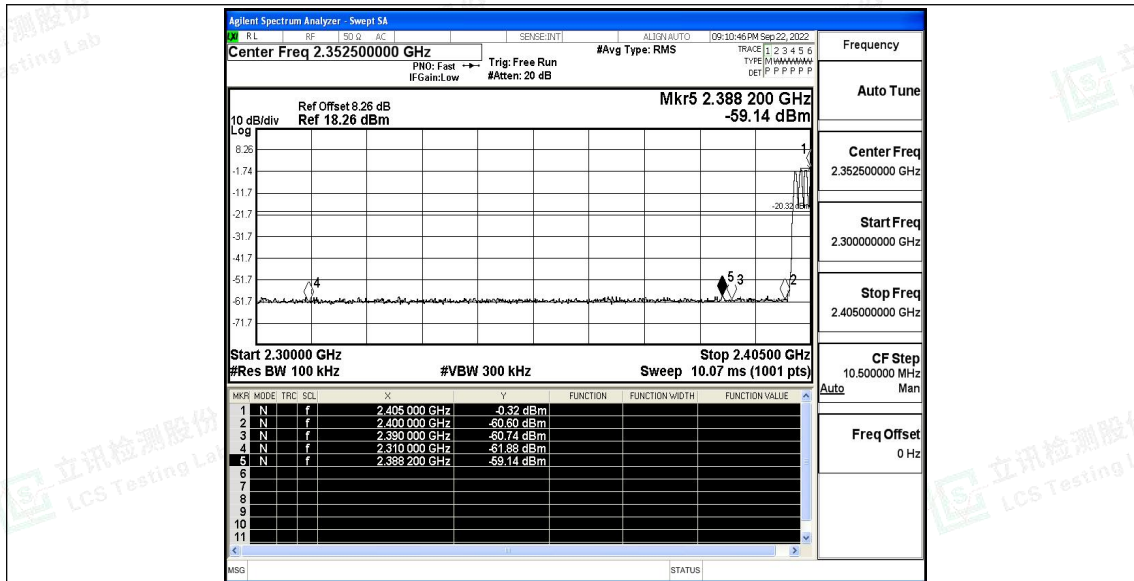


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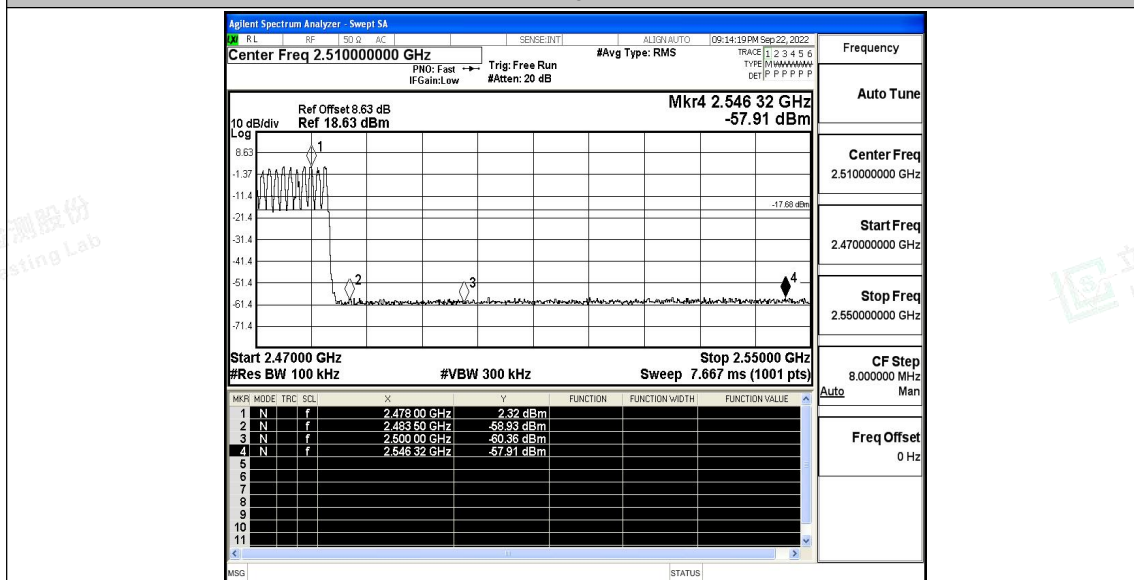
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DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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