

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: GAME CONTROLLER

Test Model: SZ-5008B

Environmental Conditions

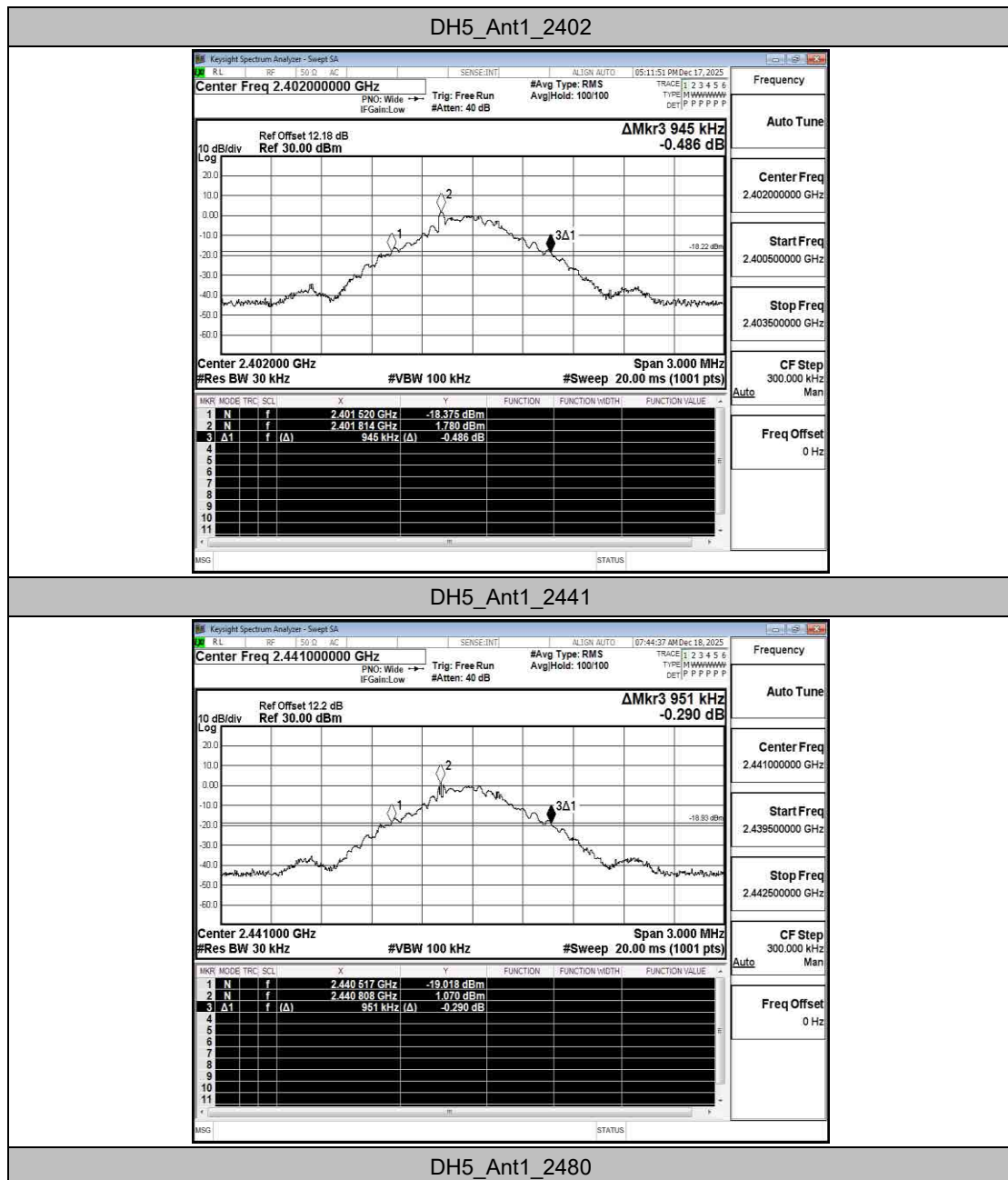
Temperature:	24.2° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Yan Chen
Supervised by:	Fengliu Tang

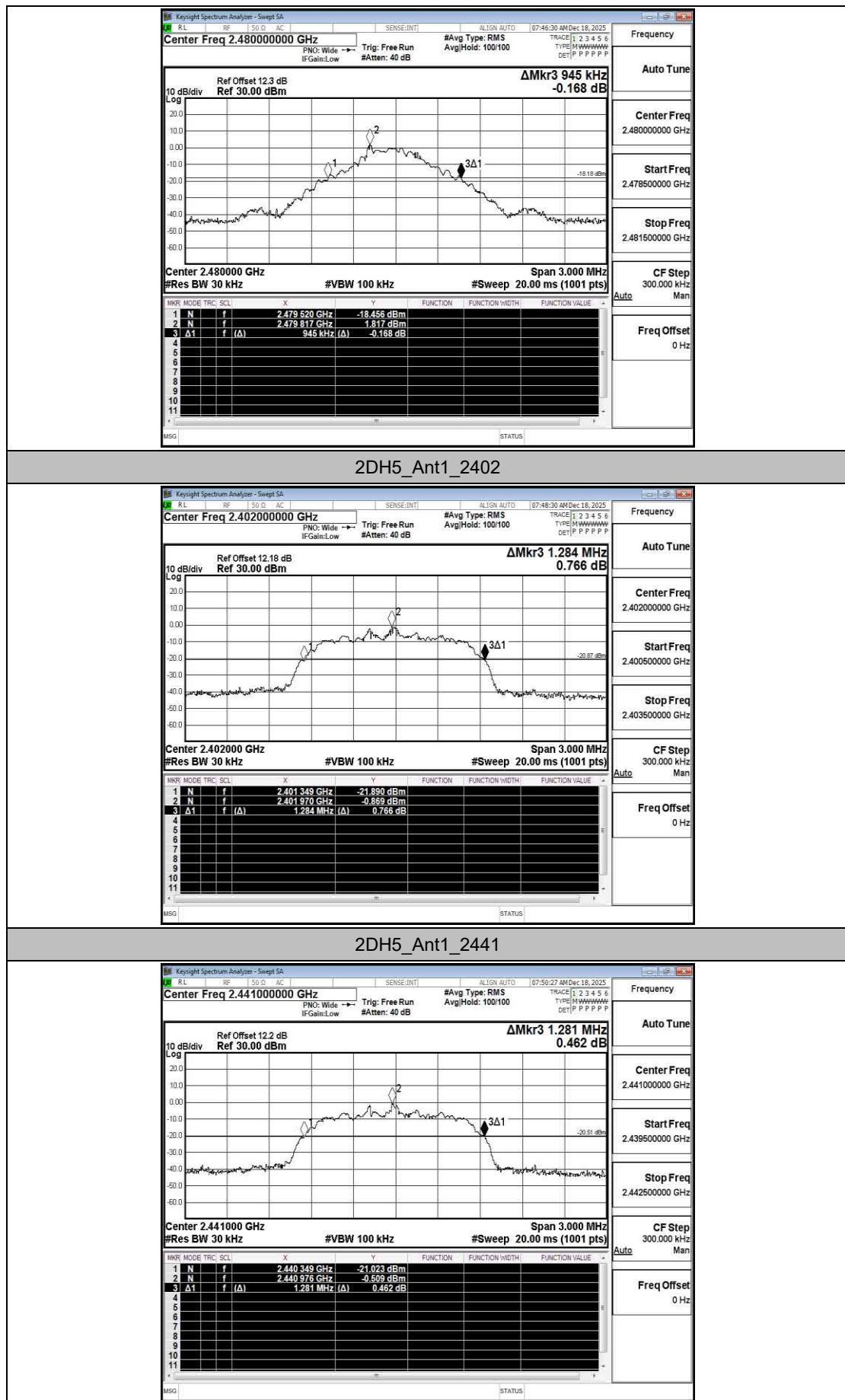
A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.520	2402.465	---	---
		2441	0.951	2440.517	2441.468	---	---
		2480	0.945	2479.520	2480.465	---	---
2DH5	Ant1	2402	1.284	2401.349	2402.633	---	---
		2441	1.281	2440.349	2441.630	---	---
		2480	1.278	2479.352	2480.630	---	---
3DH5	Ant1	2402	1.251	2401.346	2402.597	---	---
		2441	1.251	2440.346	2441.597	---	---
		2480	1.251	2479.346	2480.597	---	---

Test Graphs

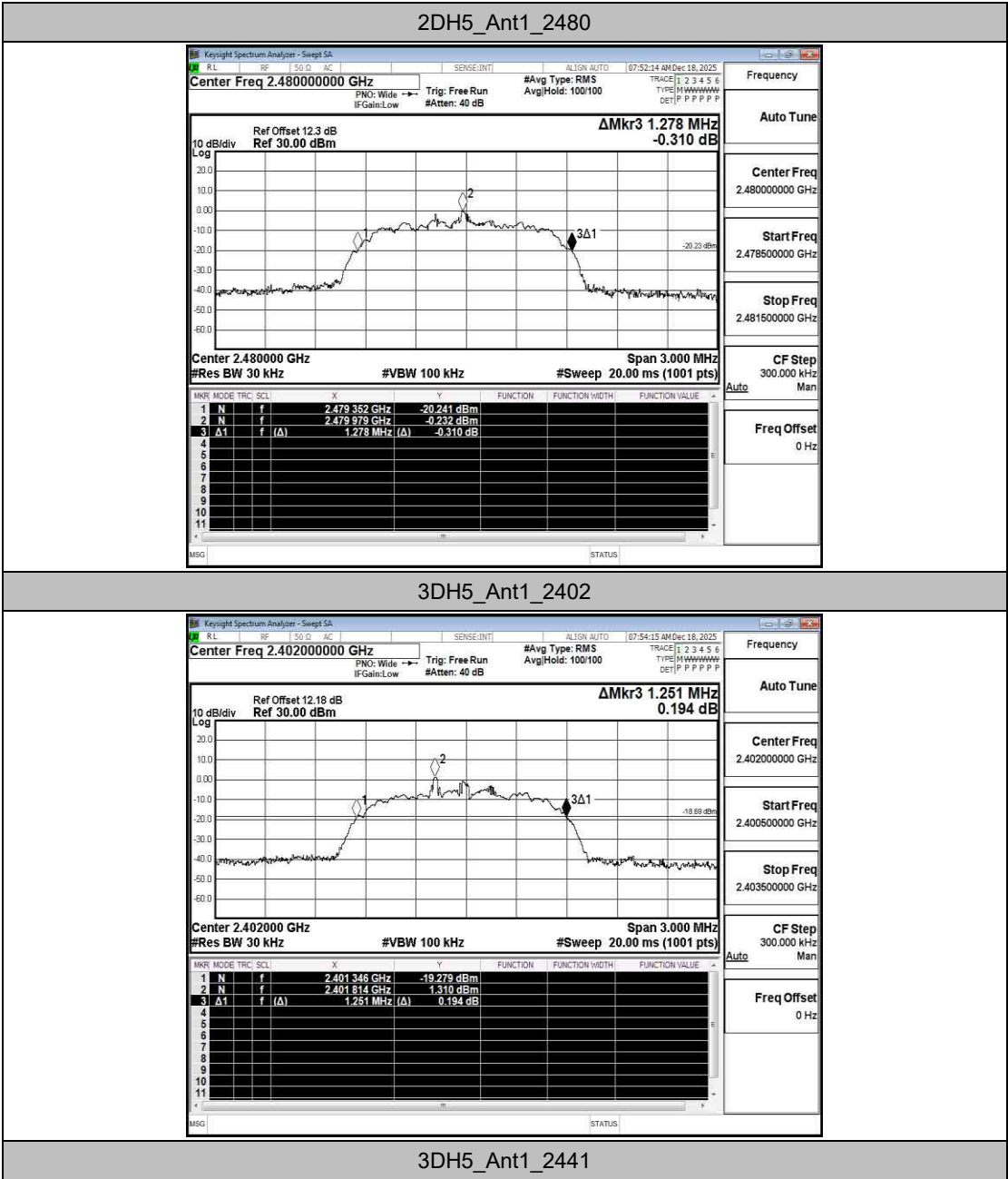


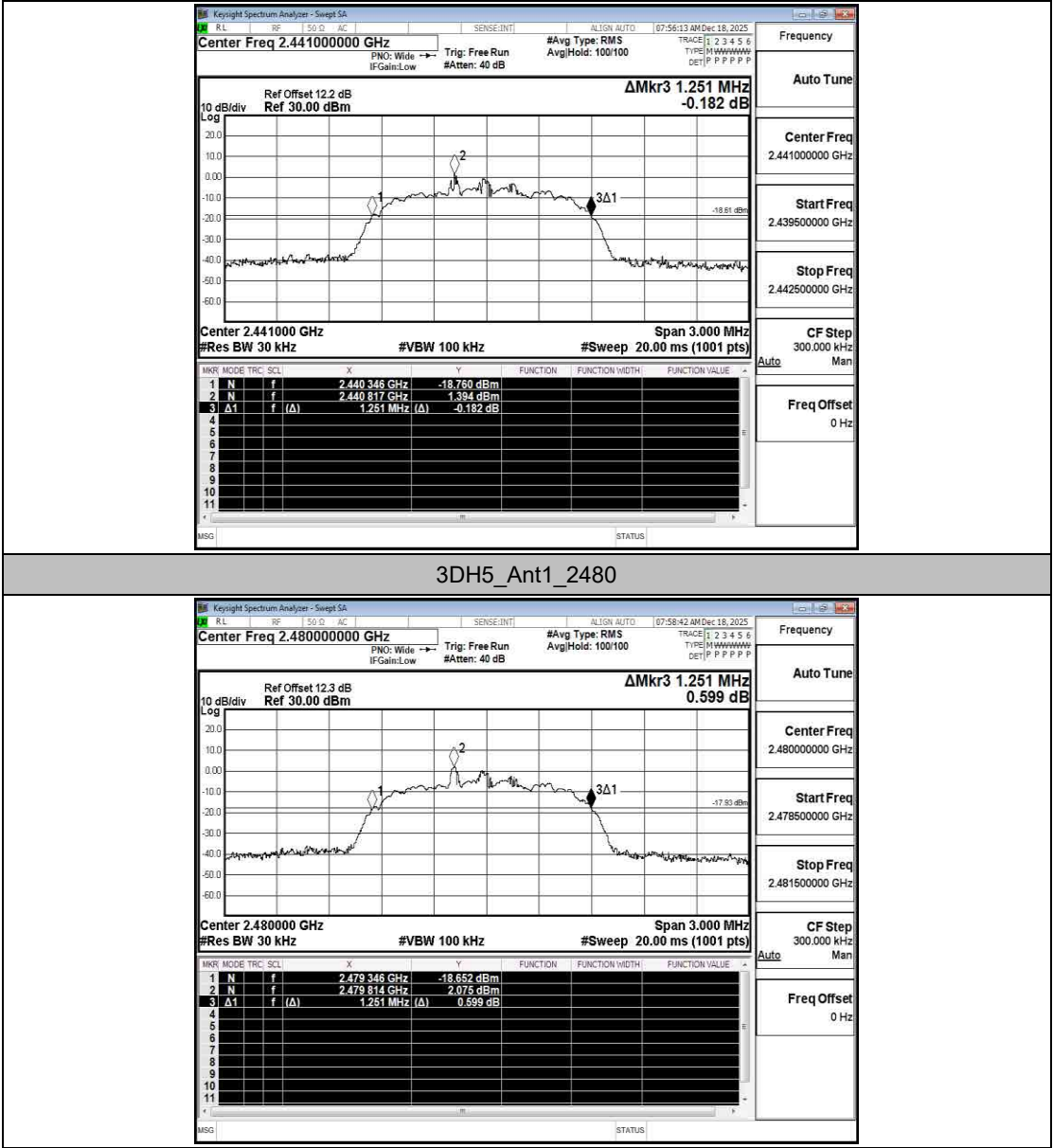


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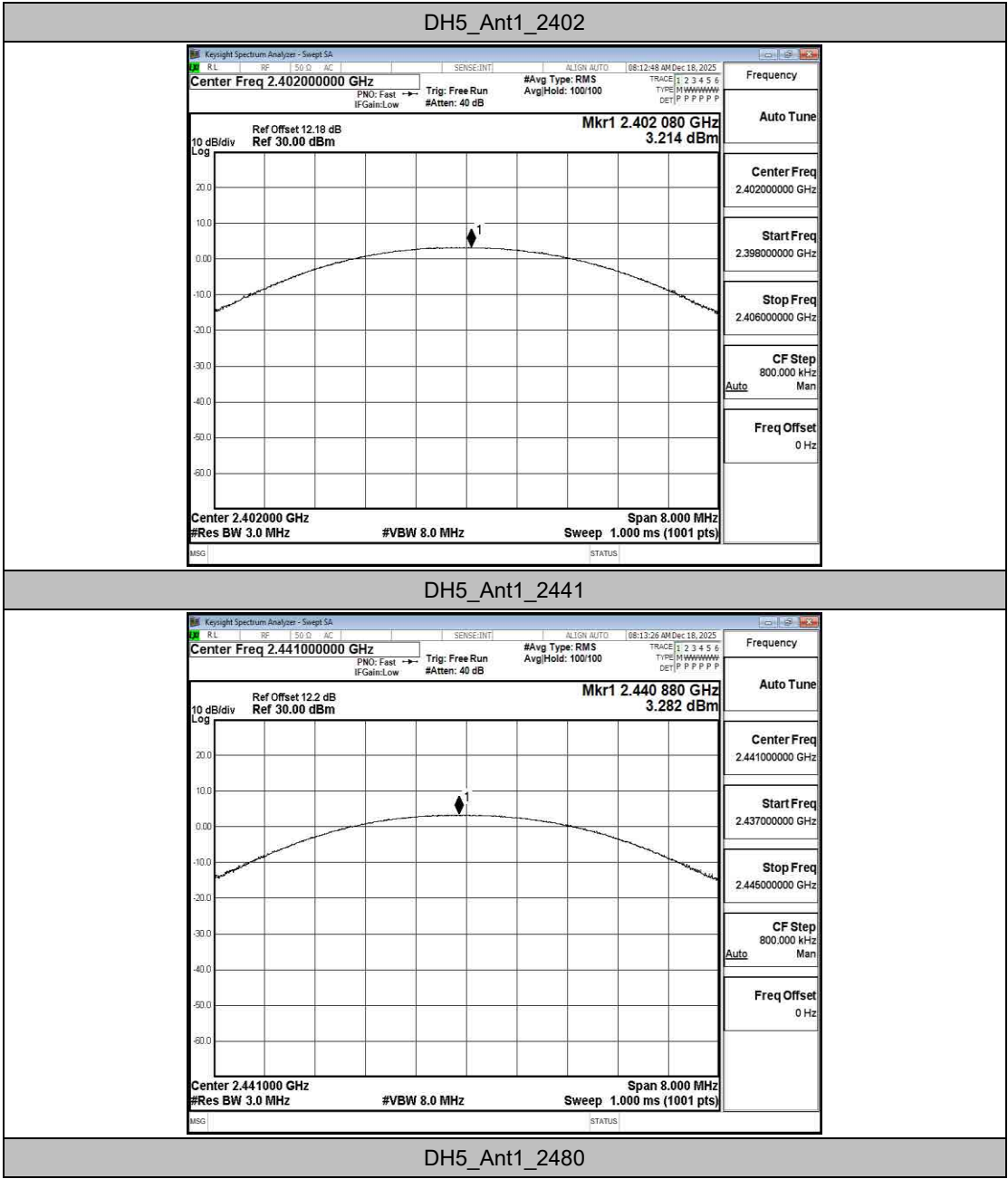


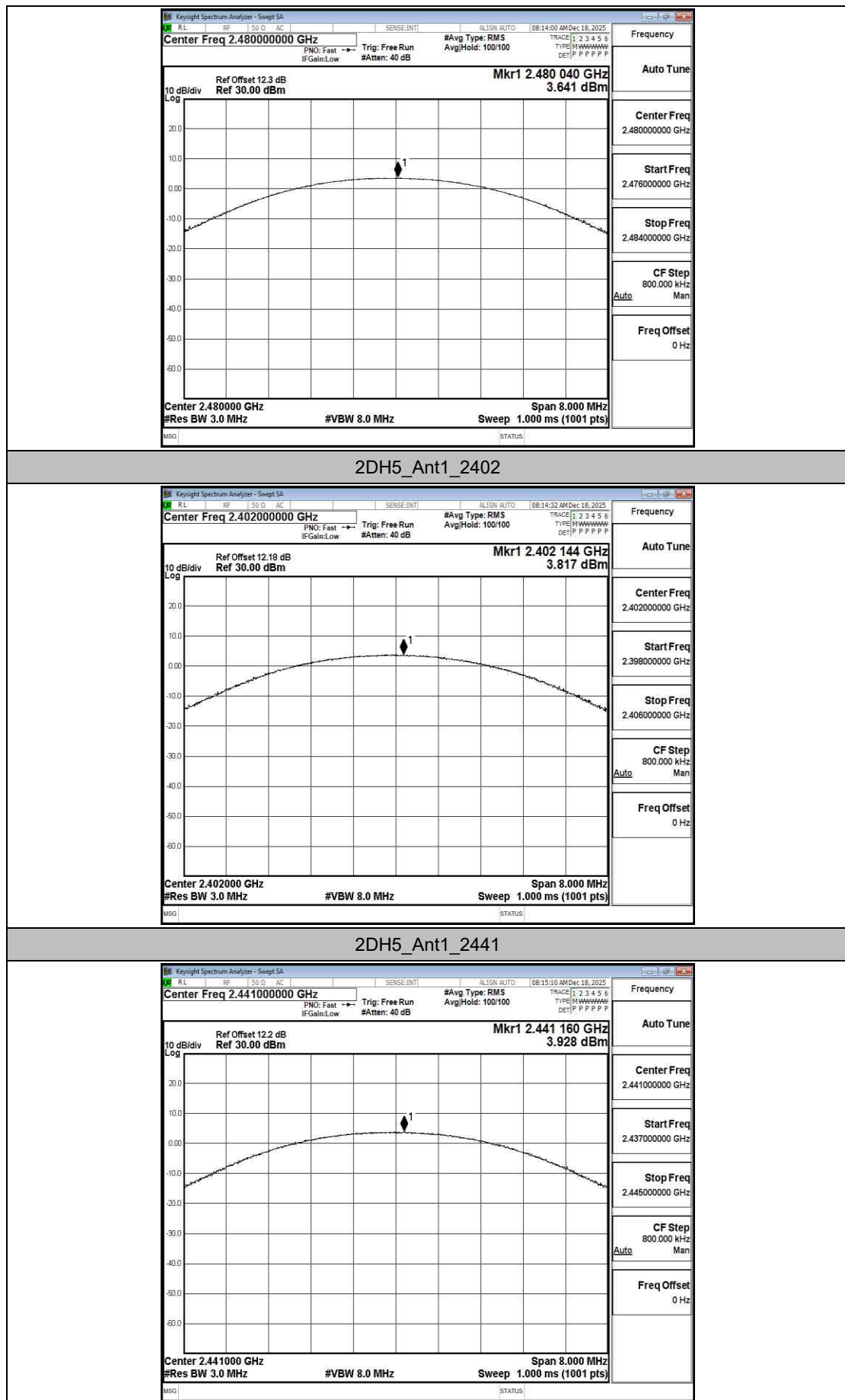
A.2 Maximum Peak conducted output power

Test Result Peak

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.21	≤30	PASS
		2441	3.28	≤30	PASS
		2480	3.64	≤30	PASS
2DH5	Ant1	2402	3.82	≤30	PASS
		2441	3.93	≤30	PASS
		2480	4.12	≤30	PASS
3DH5	Ant1	2402	4.31	≤30	PASS
		2441	4.32	≤30	PASS
		2480	4.89	≤30	PASS

Test Graphs



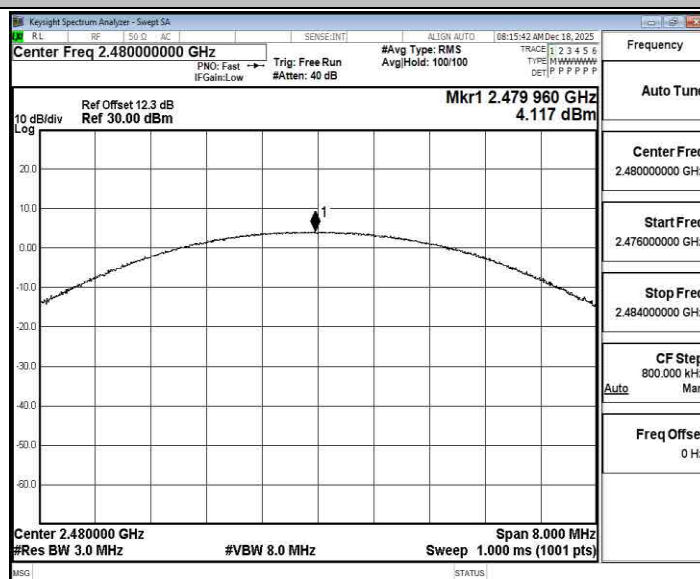


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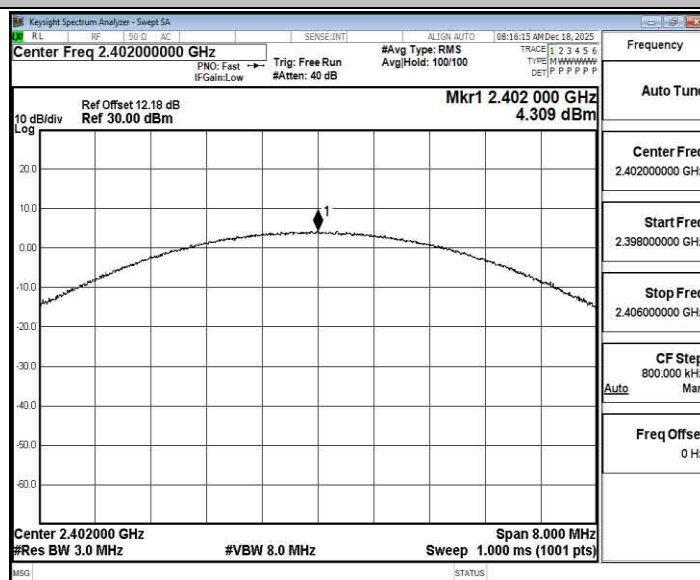
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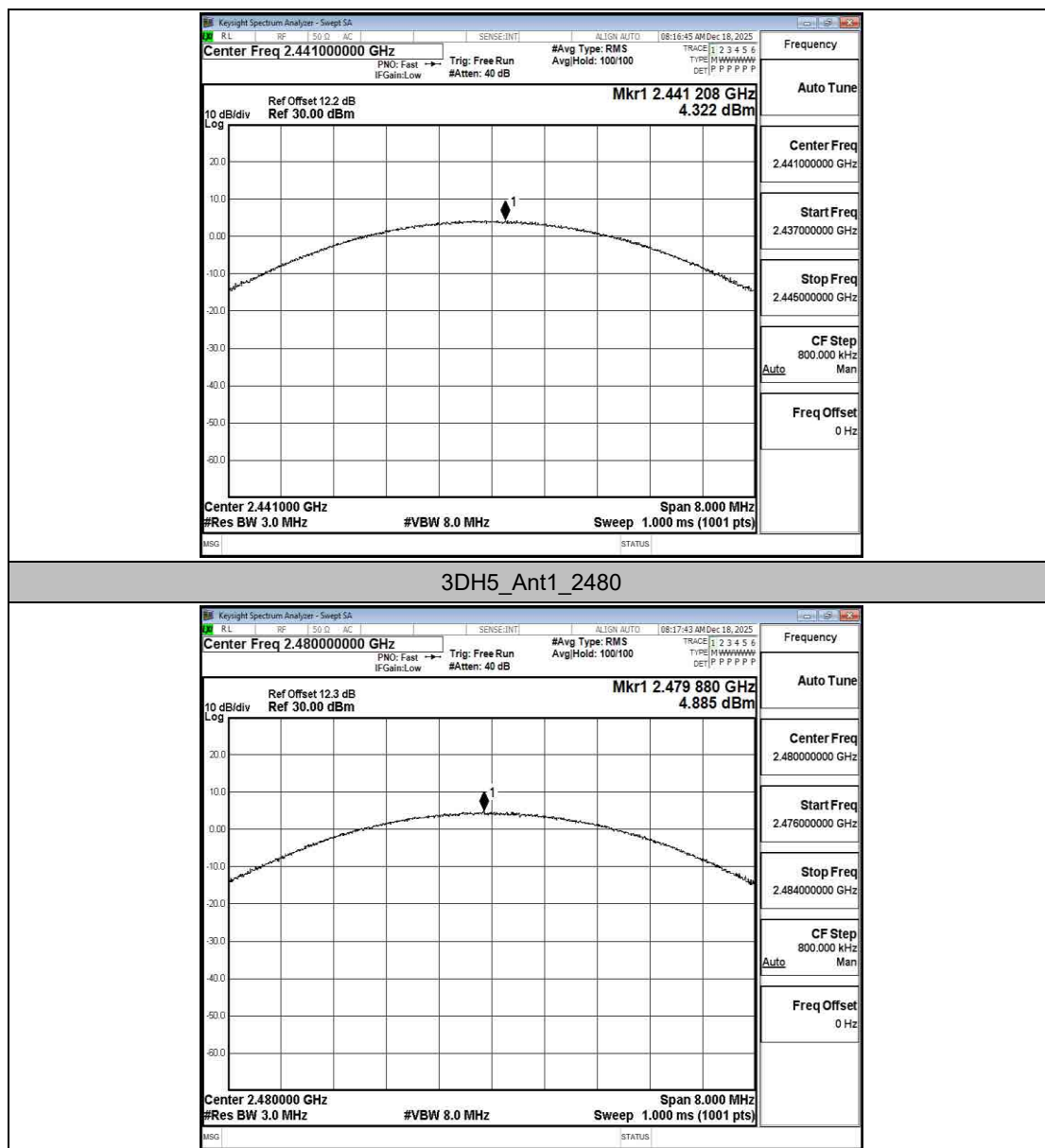
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

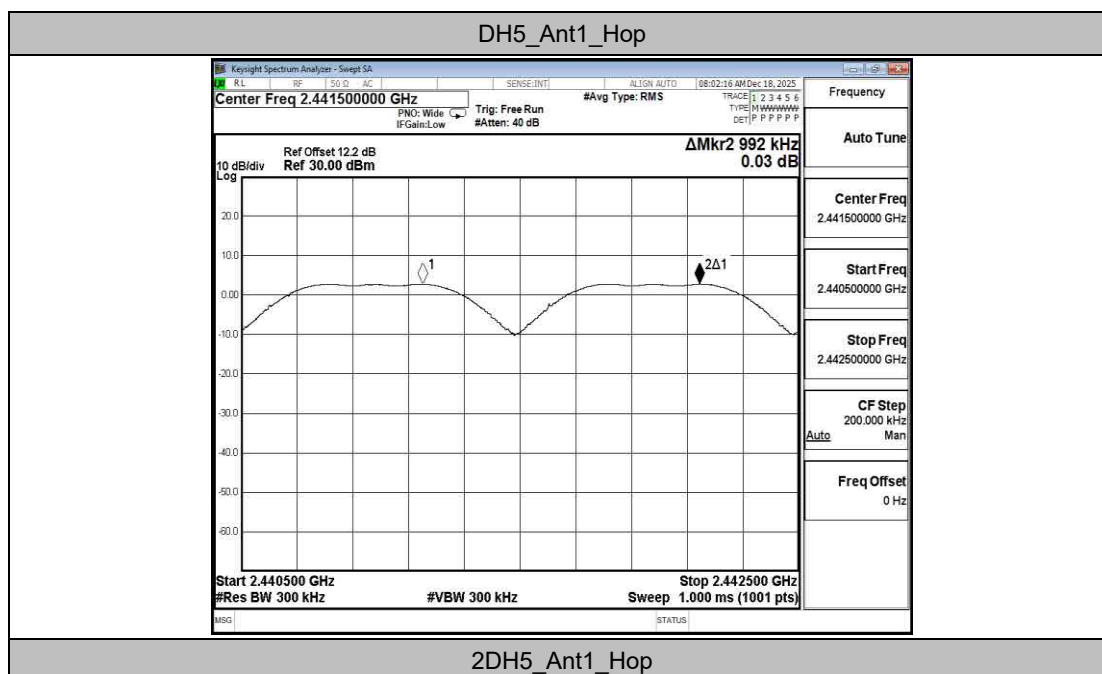


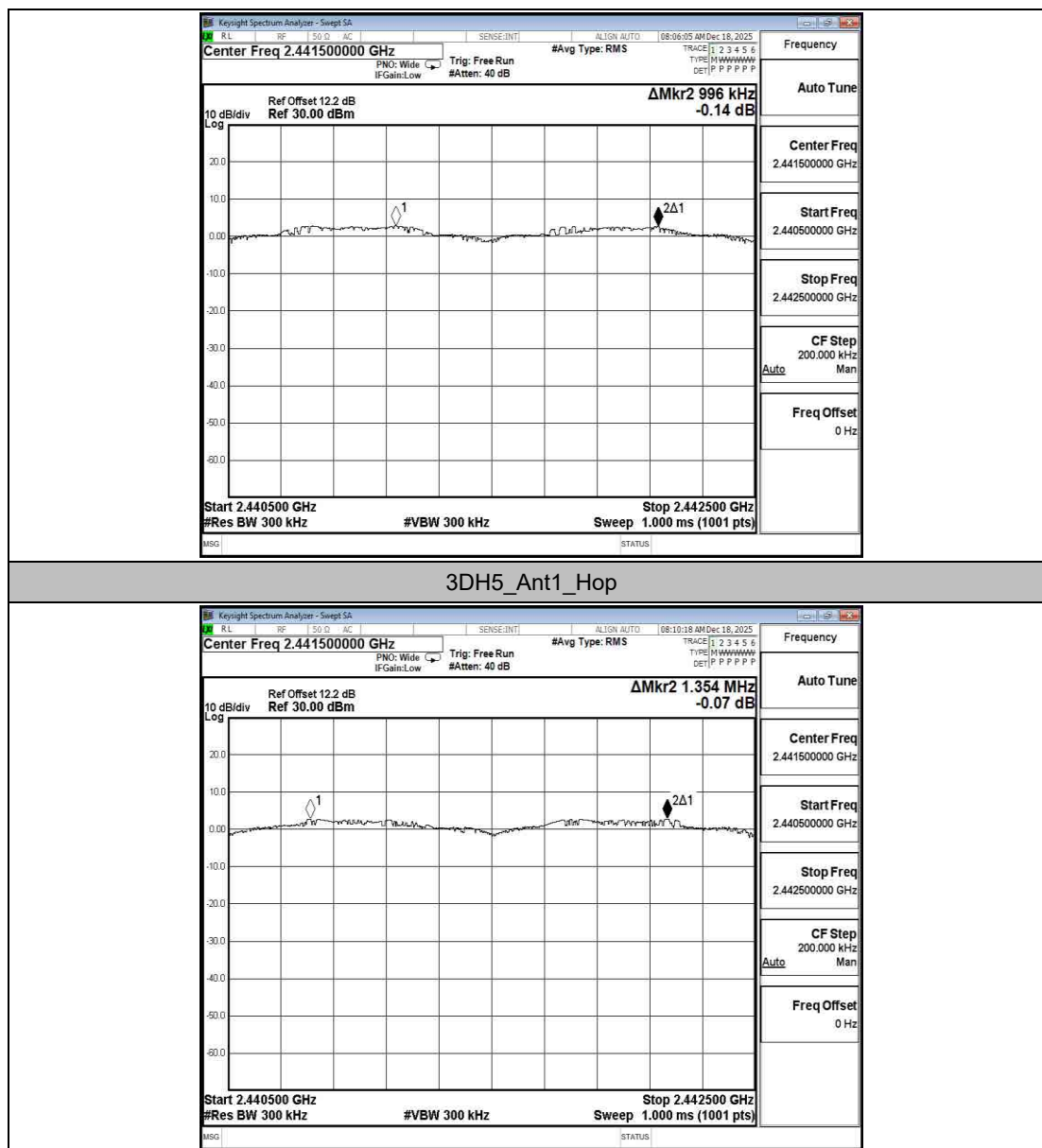
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.992	≥ 0.951	PASS
2DH5	Ant1	Hop	0.996	≥ 0.856	PASS
3DH5	Ant1	Hop	1.354	≥ 1.251	PASS

Test Graphs



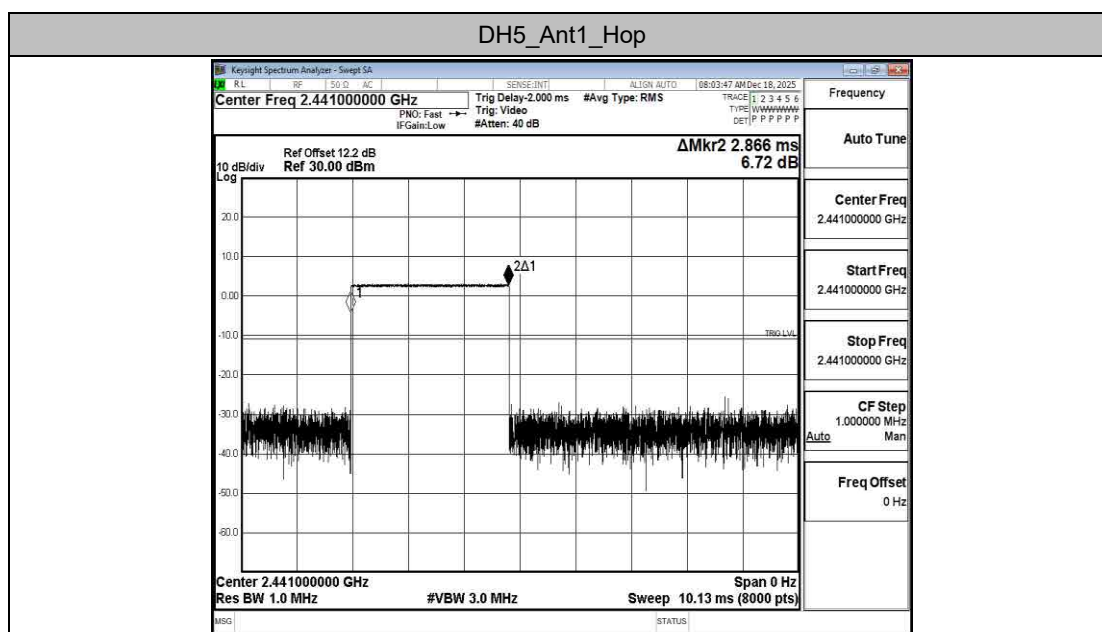


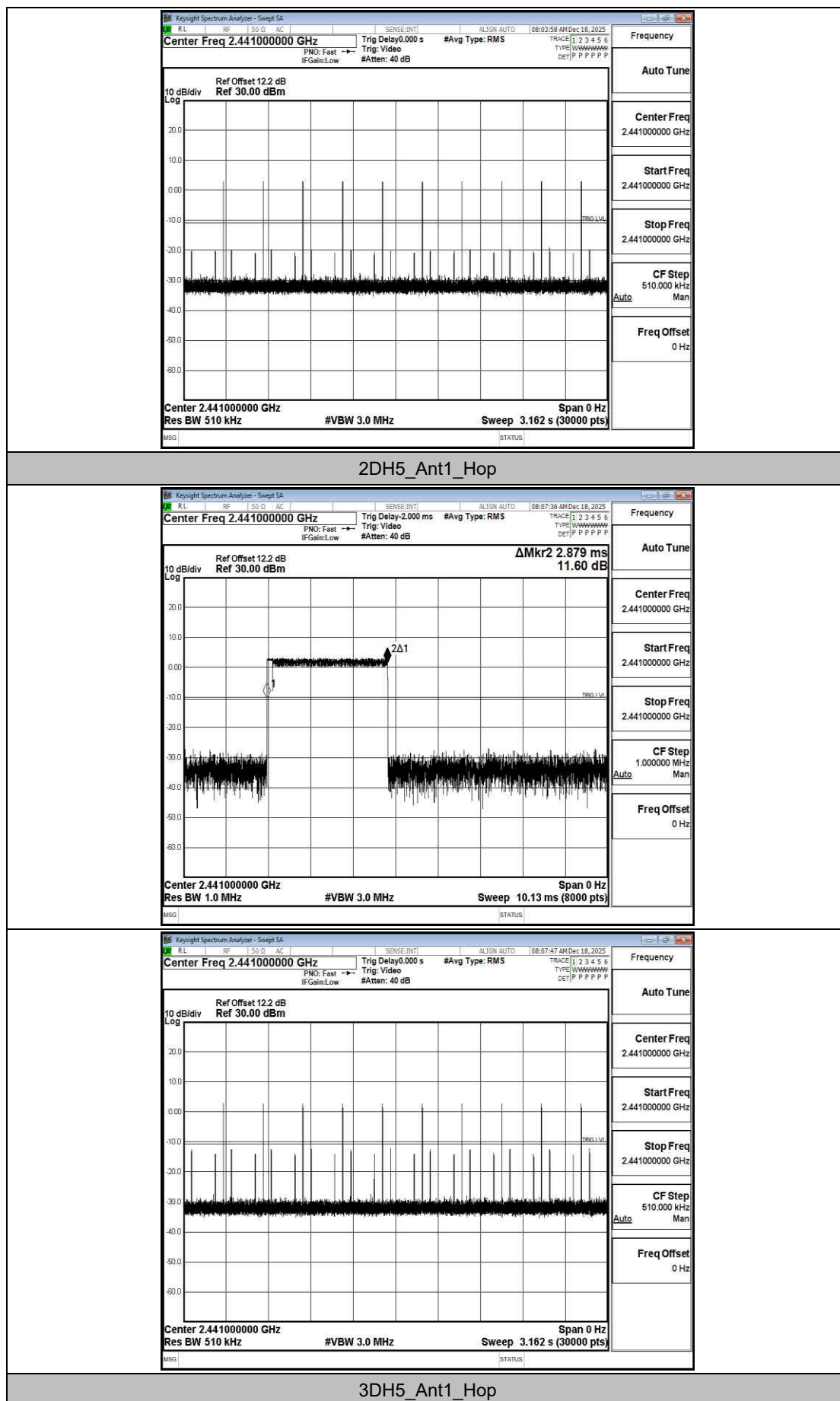
A.4 Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.866	110	0.315	≤0.4	PASS
2DH5	Ant1	Hop	2.879	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.880	110	0.317	≤0.4	PASS

Test Graphs

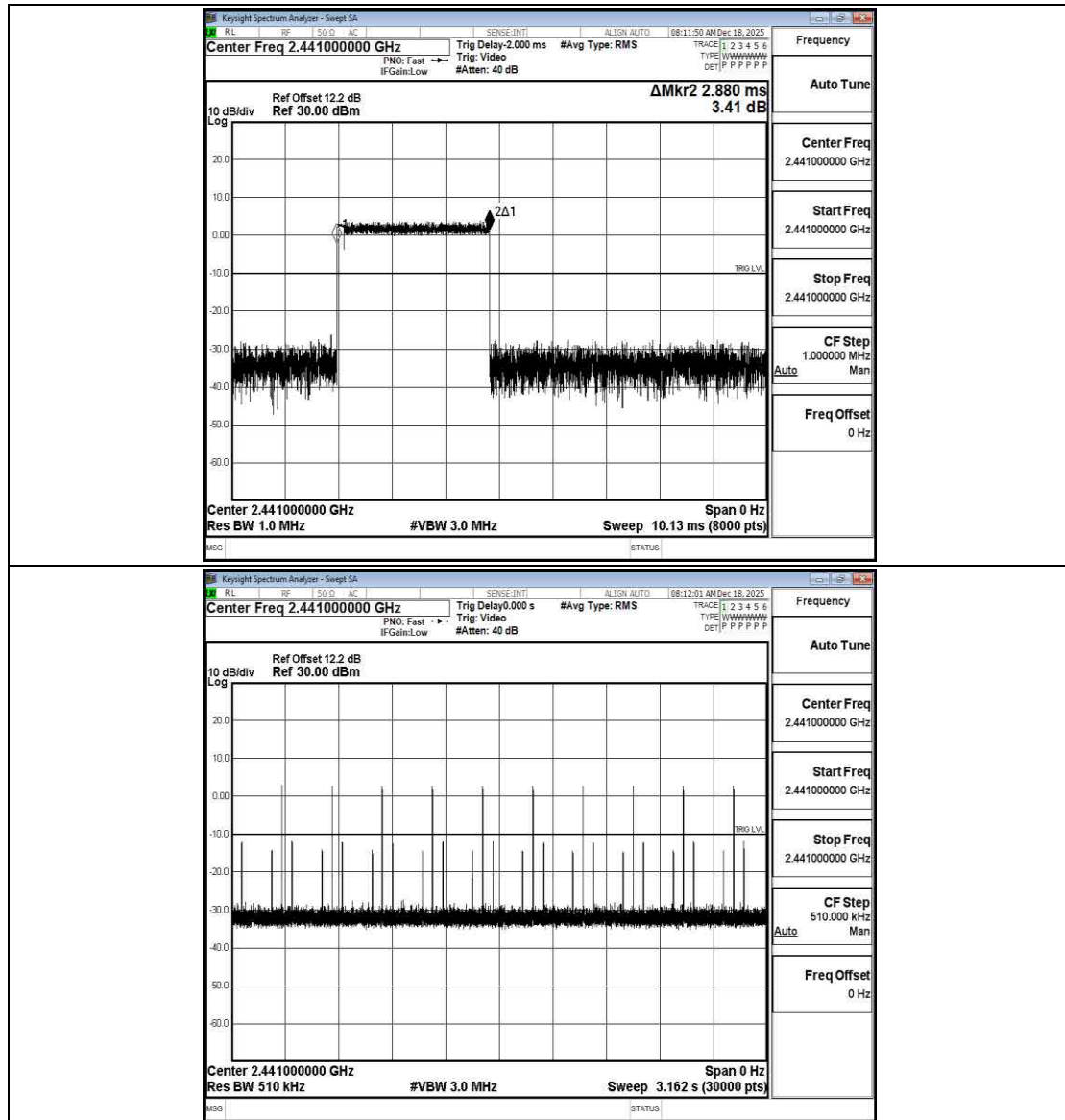




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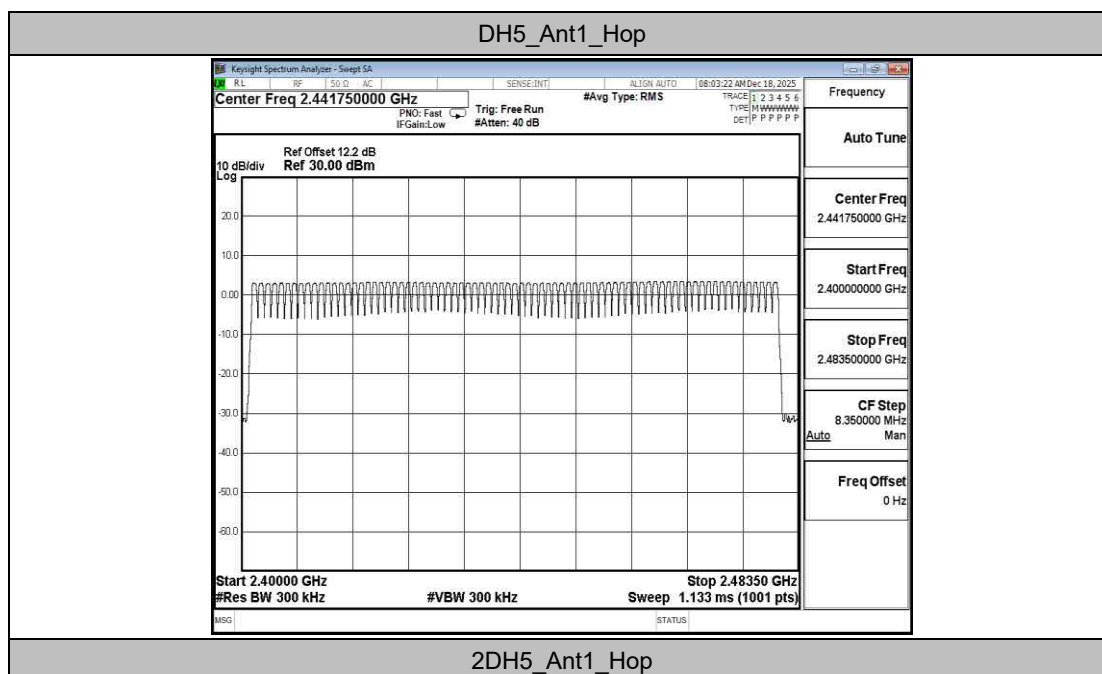


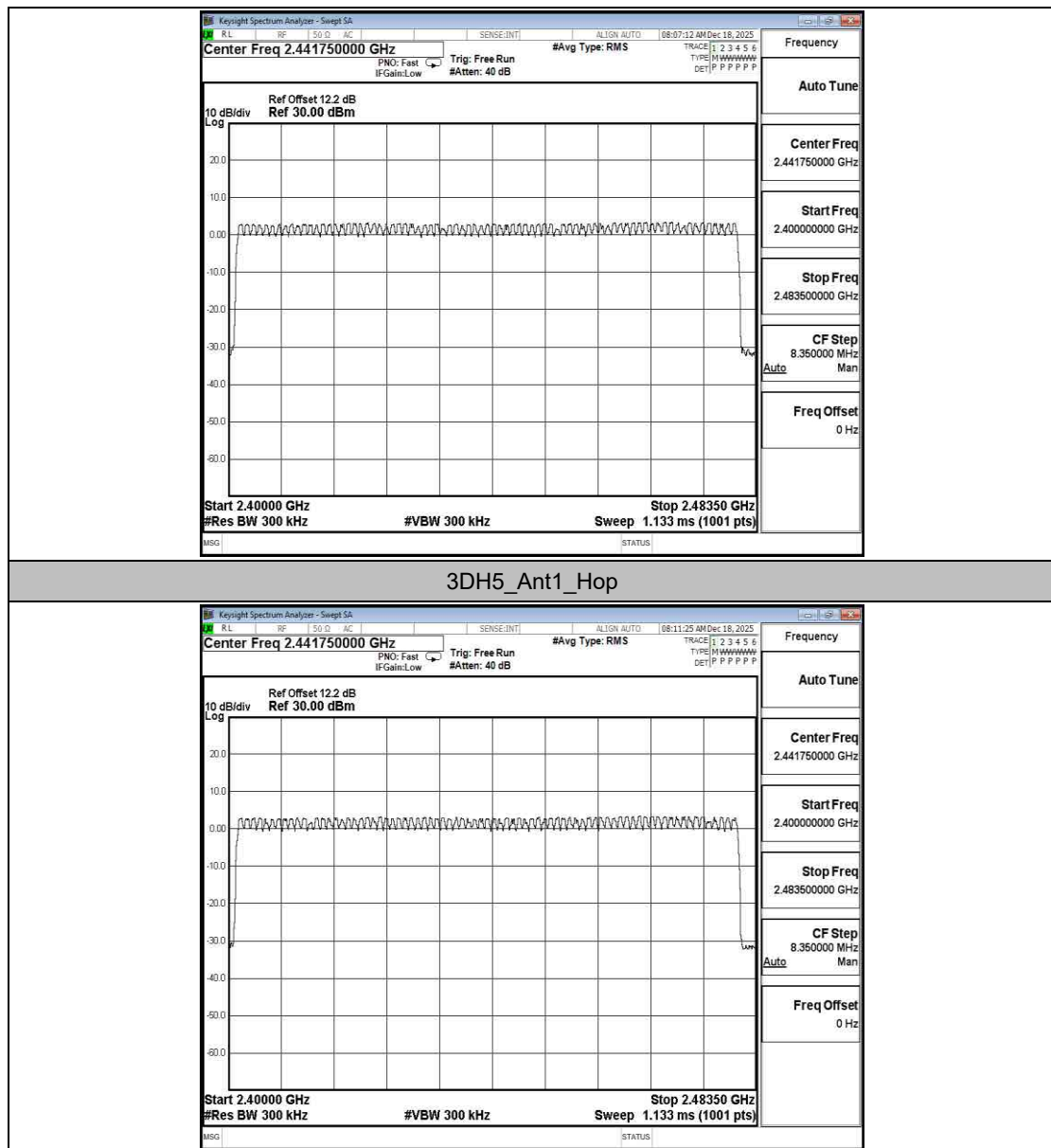
A.5 Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	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



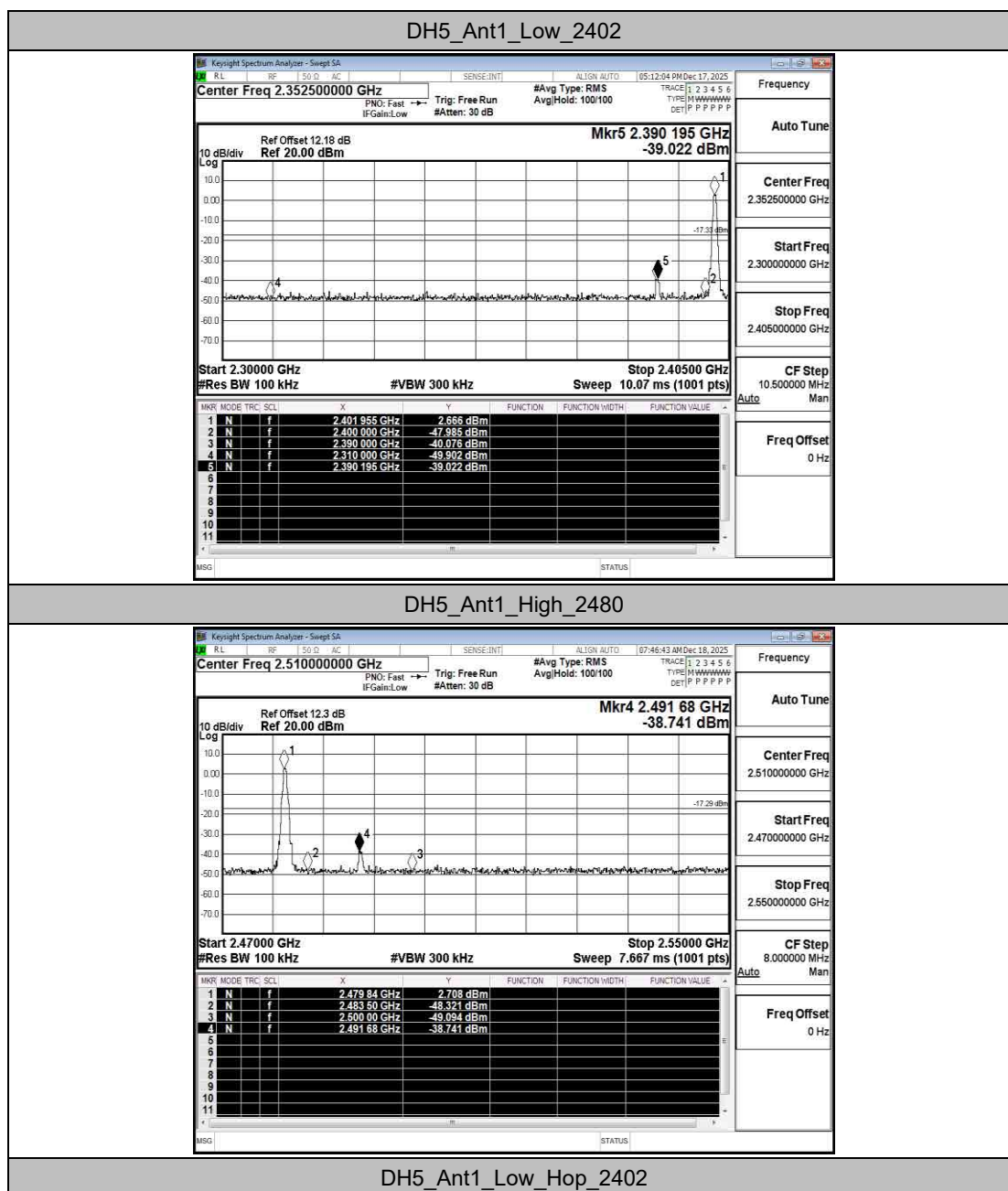


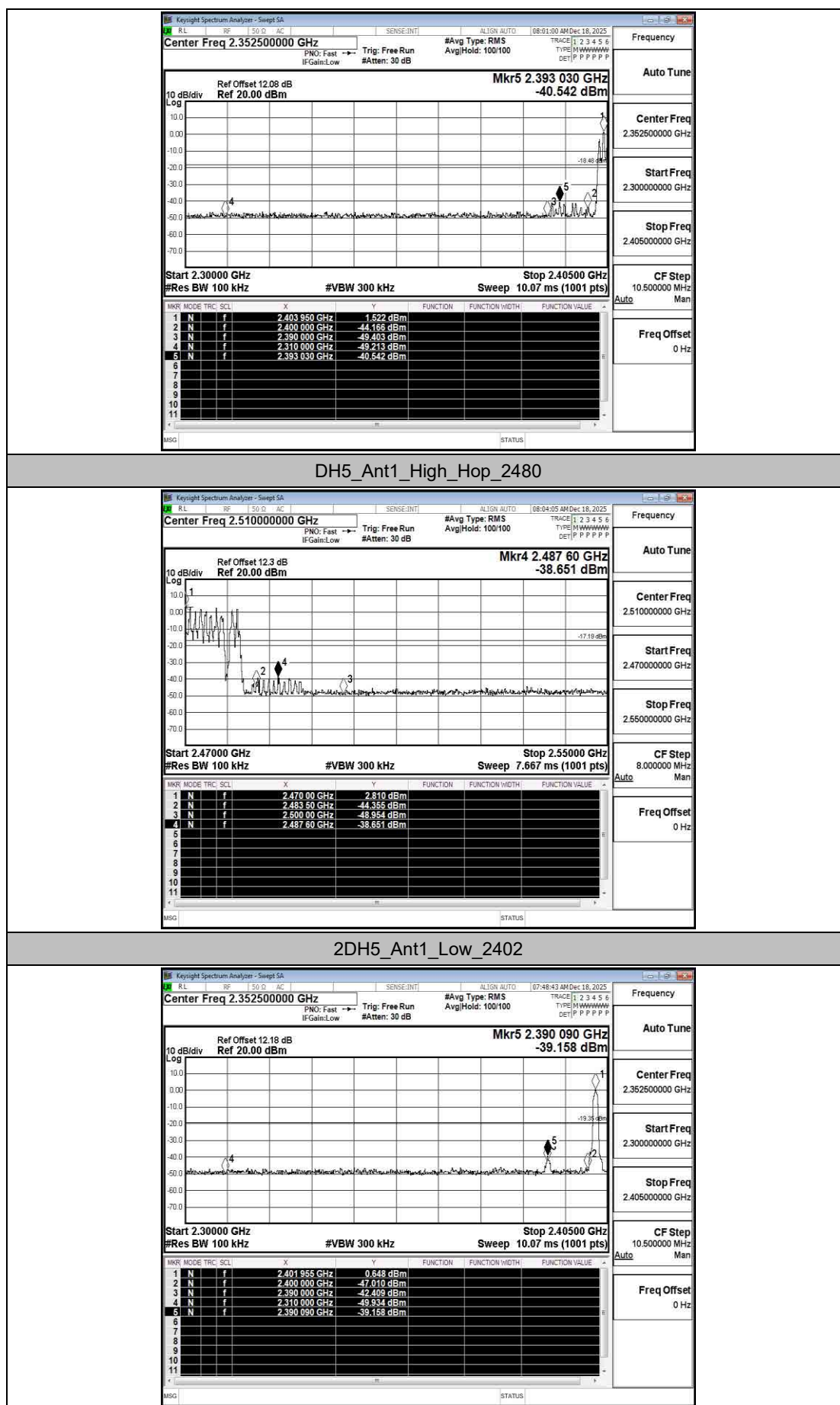
A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.67	-39.02	≤ -17.33	PASS
		High	2480	2.71	-38.74	≤ -17.29	PASS
		Low	Hop_2402	1.52	-40.54	≤ -18.48	PASS
		High	Hop_2480	2.81	-38.65	≤ -17.19	PASS
2DH5	Ant1	Low	2402	0.65	-39.16	≤ -19.35	PASS
		High	2480	-0.58	-39.92	≤ -20.58	PASS
		Low	Hop_2402	-0.41	-43.08	≤ -20.41	PASS
		High	Hop_2480	-0.56	-43.63	≤ -20.56	PASS
3DH5	Ant1	Low	2402	-0.86	-42.36	≤ -20.86	PASS
		High	2480	3.00	-40.59	≤ -17	PASS
		Low	Hop_2402	-5.73	-41.74	≤ -25.73	PASS
		High	Hop_2480	0.26	-41.74	≤ -19.74	PASS

Test Graphs



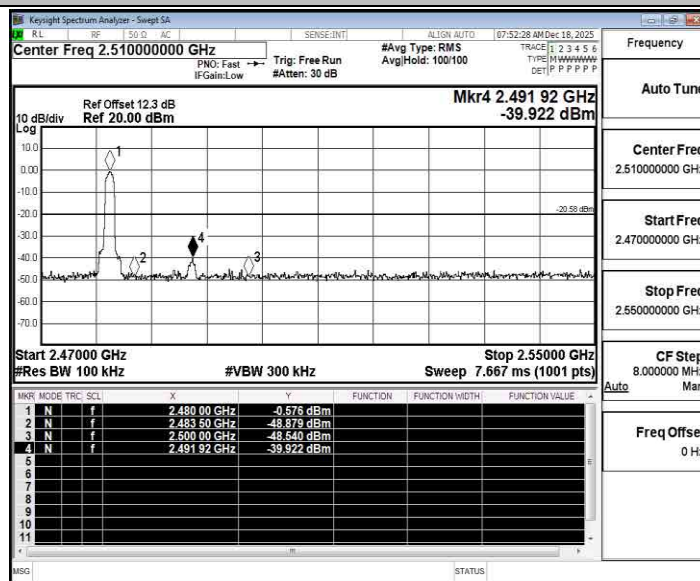


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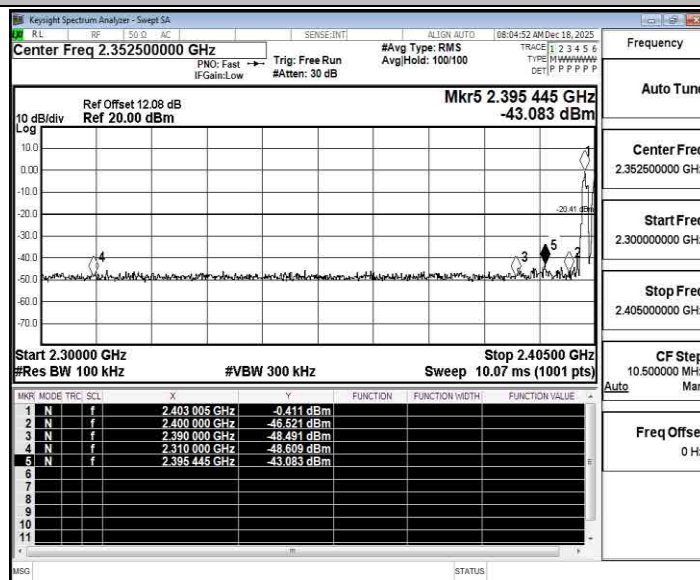
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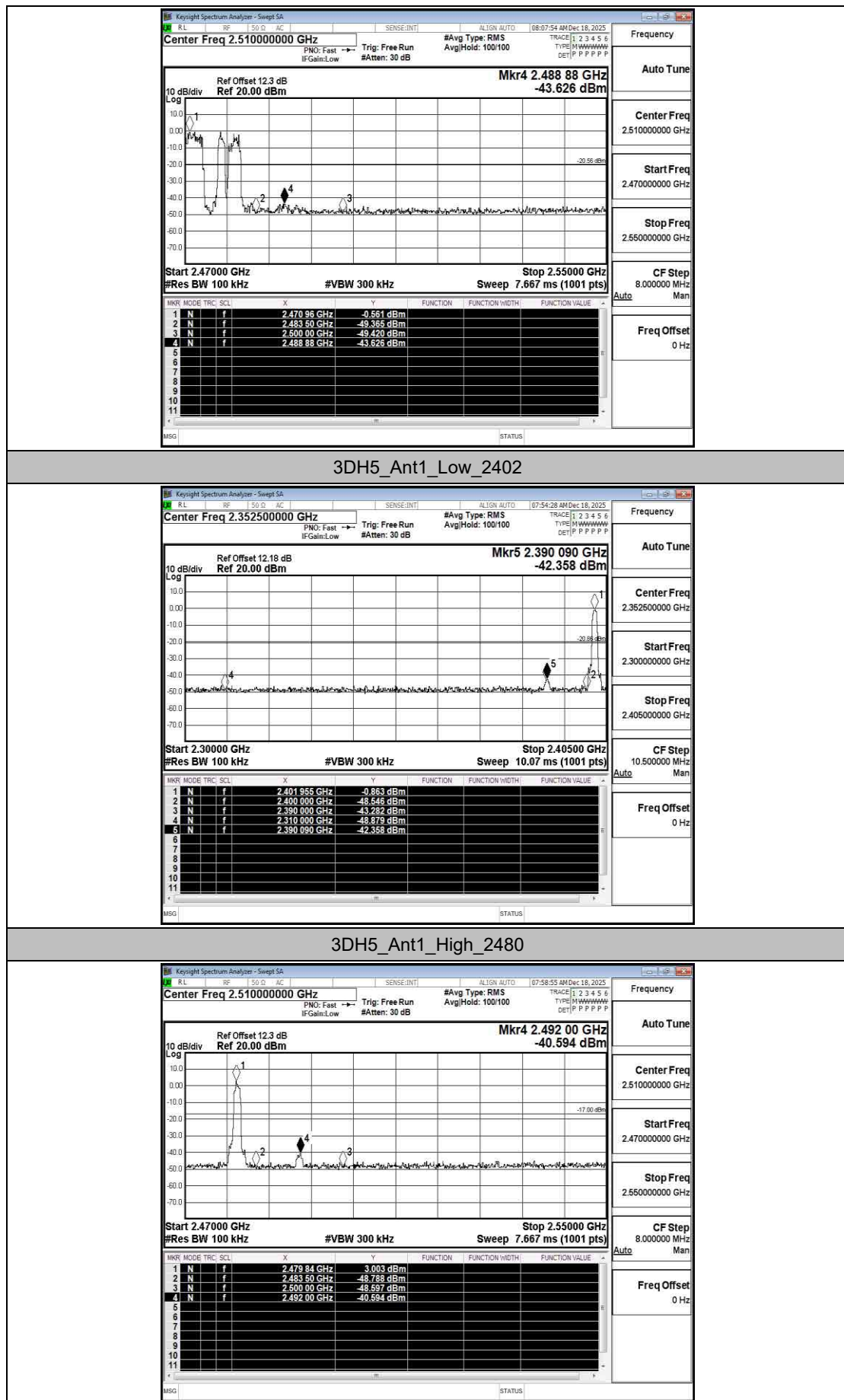
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



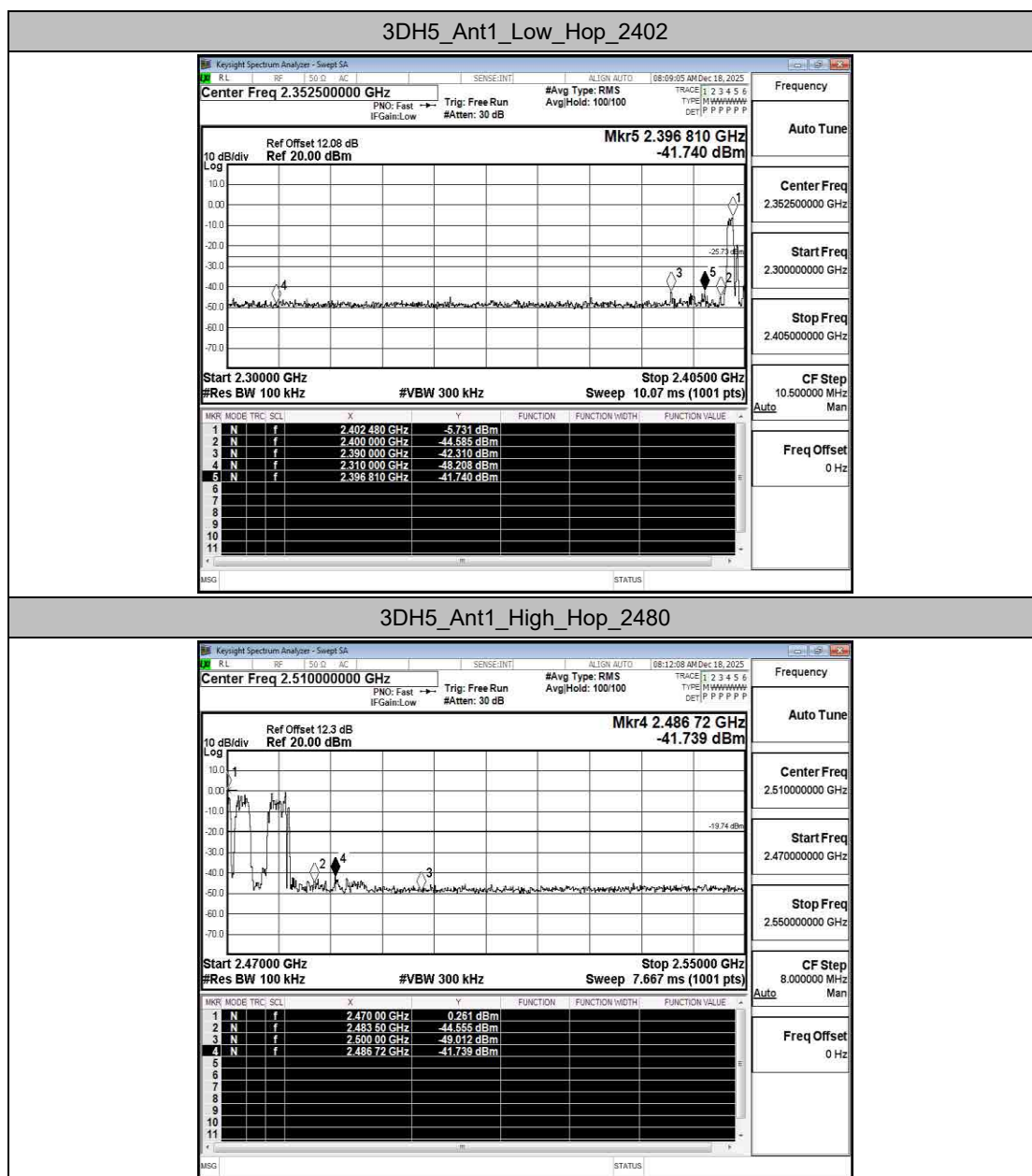
2DH5_Ant1_High_Hop_2480



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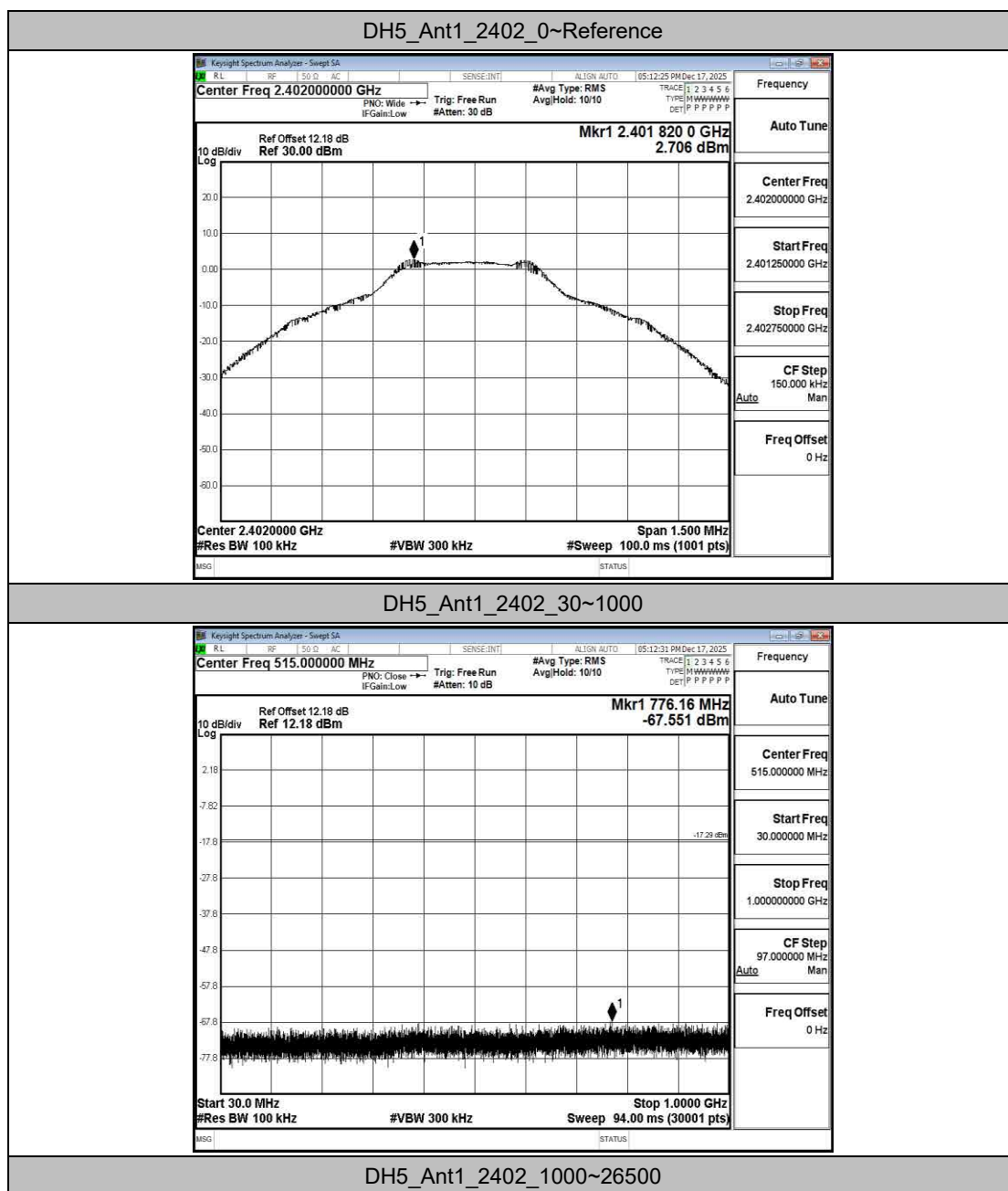


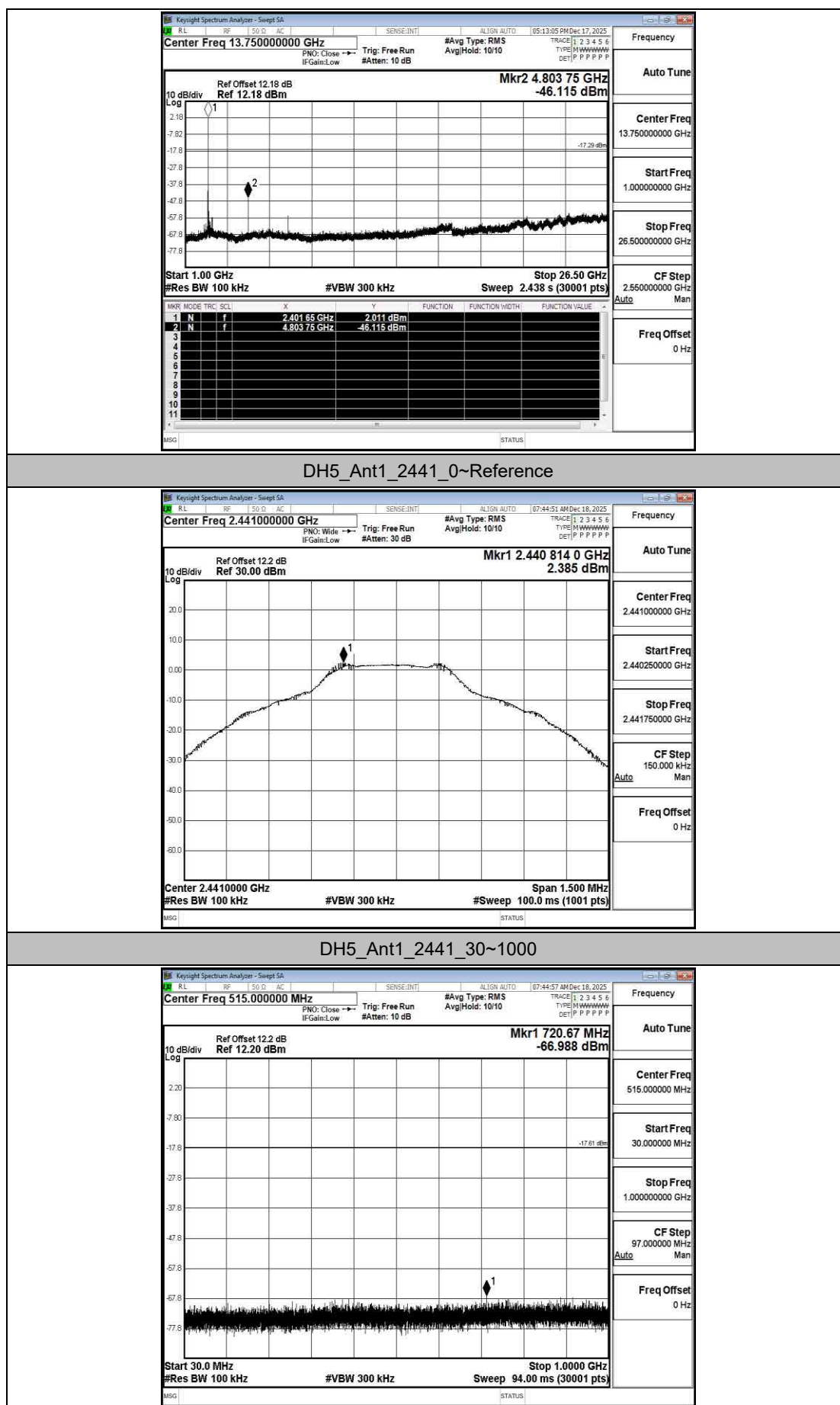
A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.71	2.71	---	PASS
			30~1000	2.71	-67.55	≤-17.29	PASS
			1000~26500	2.71	-46.12	≤-17.29	PASS
		2441	Reference	2.39	2.39	---	PASS
			30~1000	2.39	-66.99	≤-17.61	PASS
			1000~26500	2.39	-49.75	≤-17.61	PASS
		2480	Reference	2.70	2.70	---	PASS
			30~1000	2.70	-67.87	≤-17.3	PASS
			1000~26500	2.70	-50.74	≤-17.3	PASS
2DH5	Ant1	2402	Reference	2.16	2.16	---	PASS
			30~1000	2.16	-67.9	≤-17.84	PASS
			1000~26500	2.16	-47.33	≤-17.84	PASS
		2441	Reference	2.15	2.15	---	PASS
			30~1000	2.15	-67.07	≤-17.85	PASS
			1000~26500	2.15	-48.79	≤-17.85	PASS
		2480	Reference	2.47	2.47	---	PASS
			30~1000	2.47	-59.11	≤-17.53	PASS
			1000~26500	2.47	-49.81	≤-17.53	PASS
3DH5	Ant1	2402	Reference	2.29	2.29	---	PASS
			30~1000	2.29	-67.31	≤-17.71	PASS
			1000~26500	2.29	-51.45	≤-17.71	PASS
		2441	Reference	2.27	2.27	---	PASS
			30~1000	2.27	-66.67	≤-17.73	PASS
			1000~26500	2.27	-50.61	≤-17.73	PASS
		2480	Reference	2.99	2.99	---	PASS
			30~1000	2.99	-67.33	≤-17.01	PASS
			1000~26500	2.99	-52.31	≤-17.01	PASS

Test Graphs



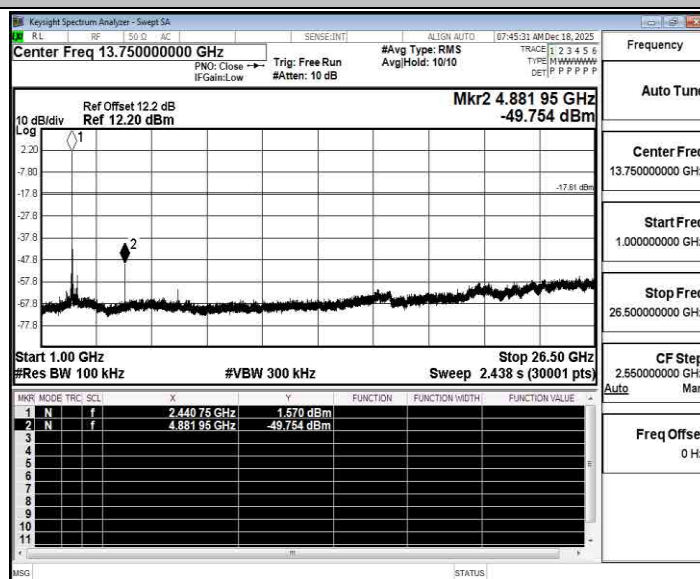


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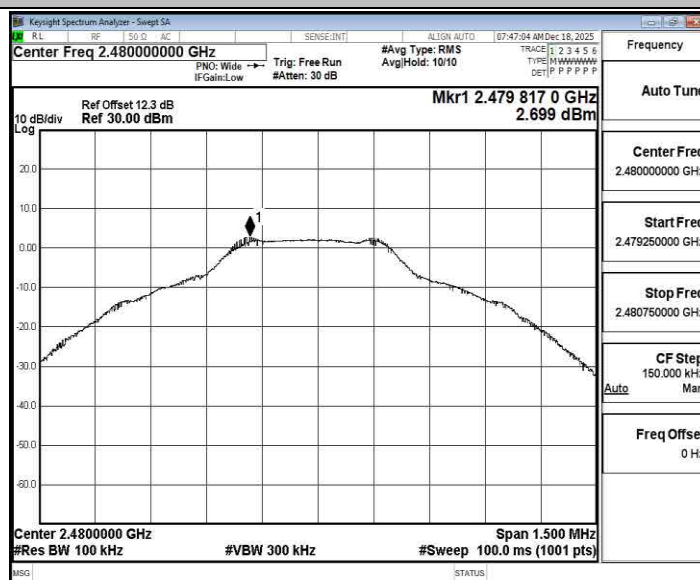
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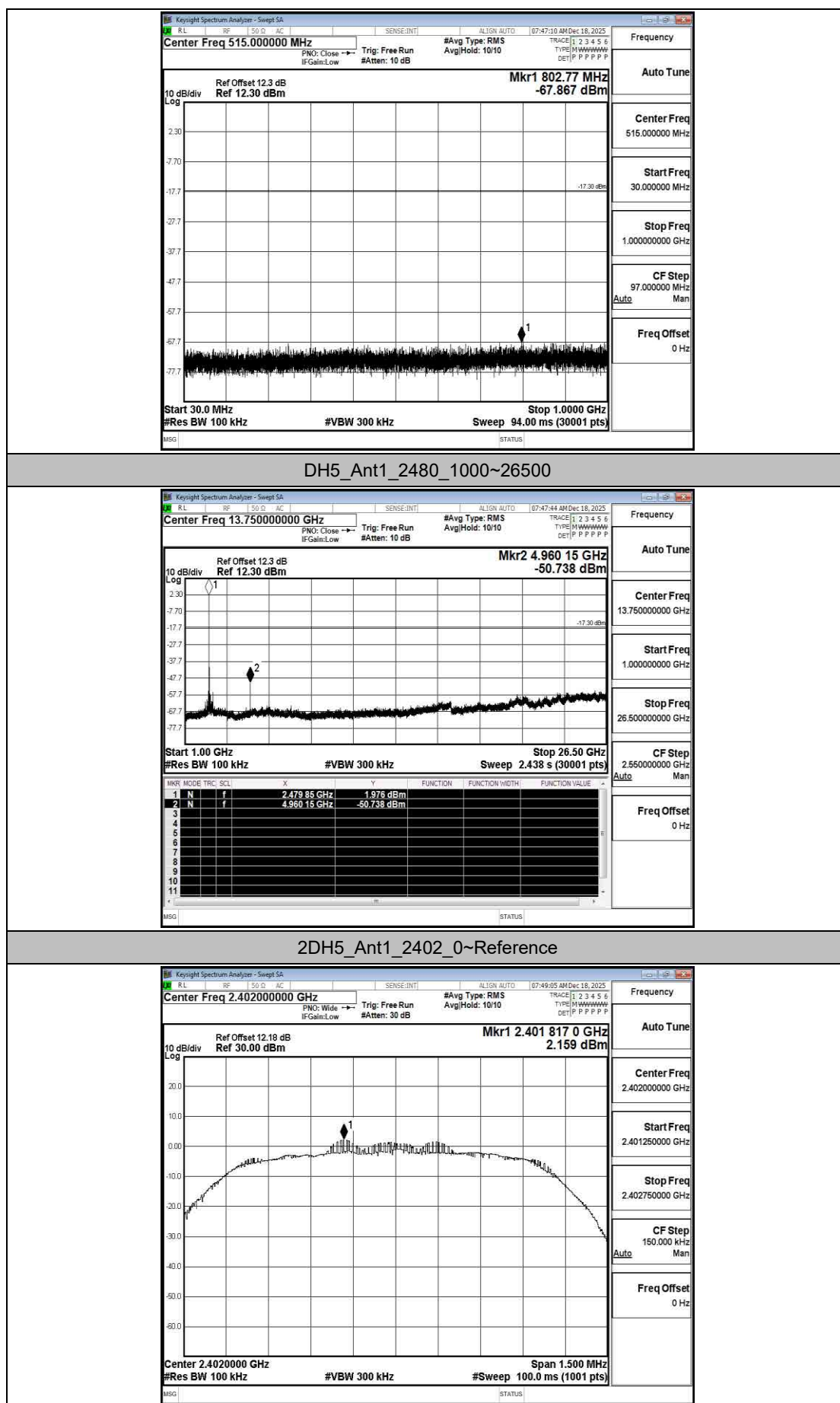
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



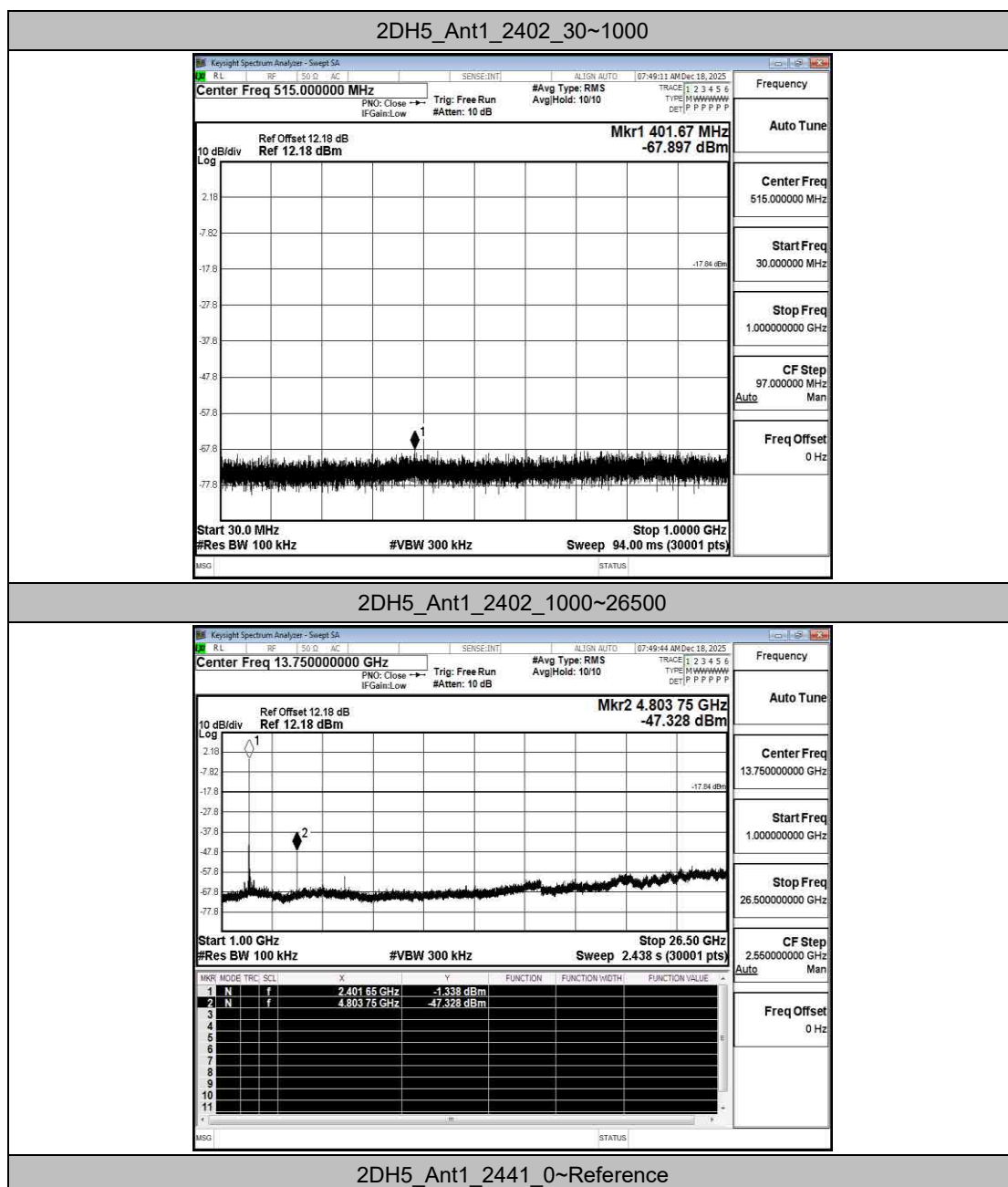
DH5_Ant1_2480_30~1000

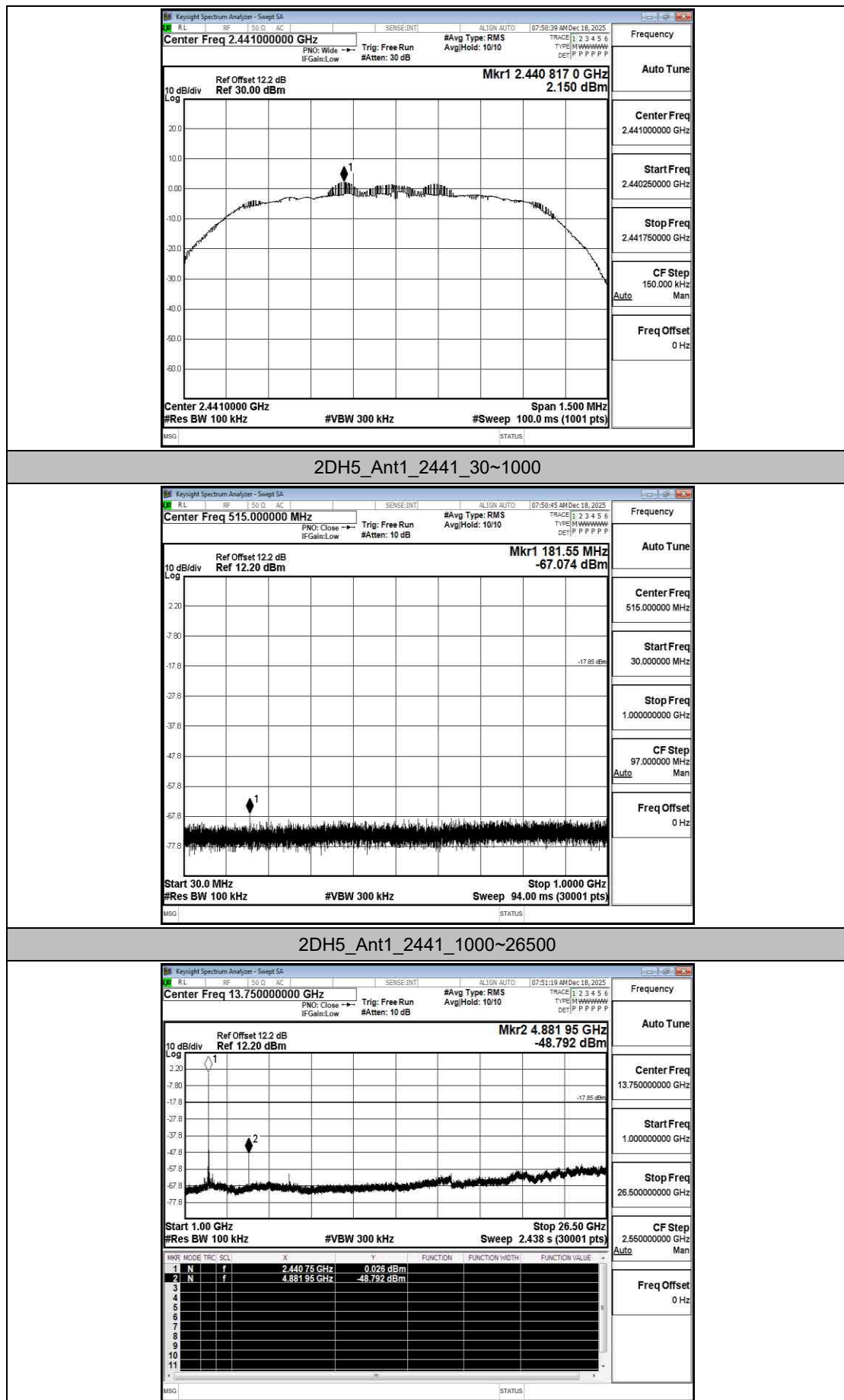


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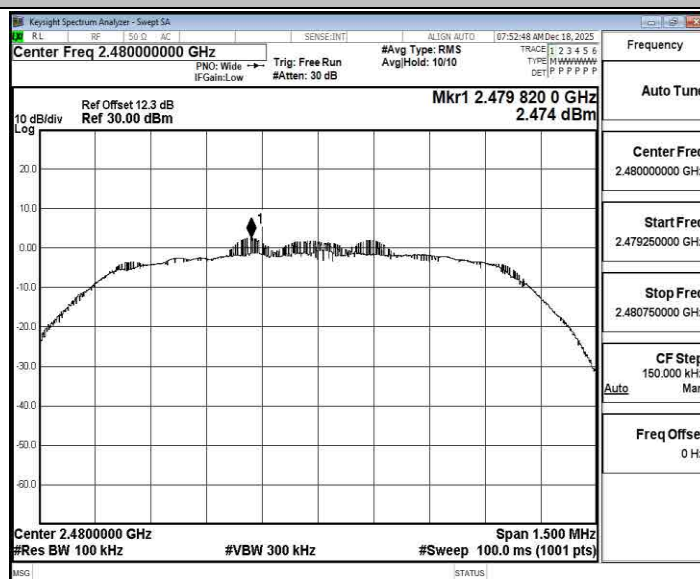


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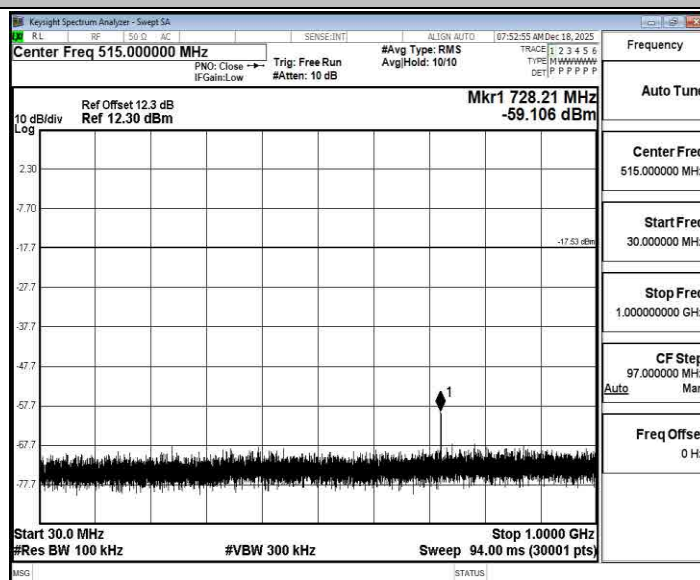
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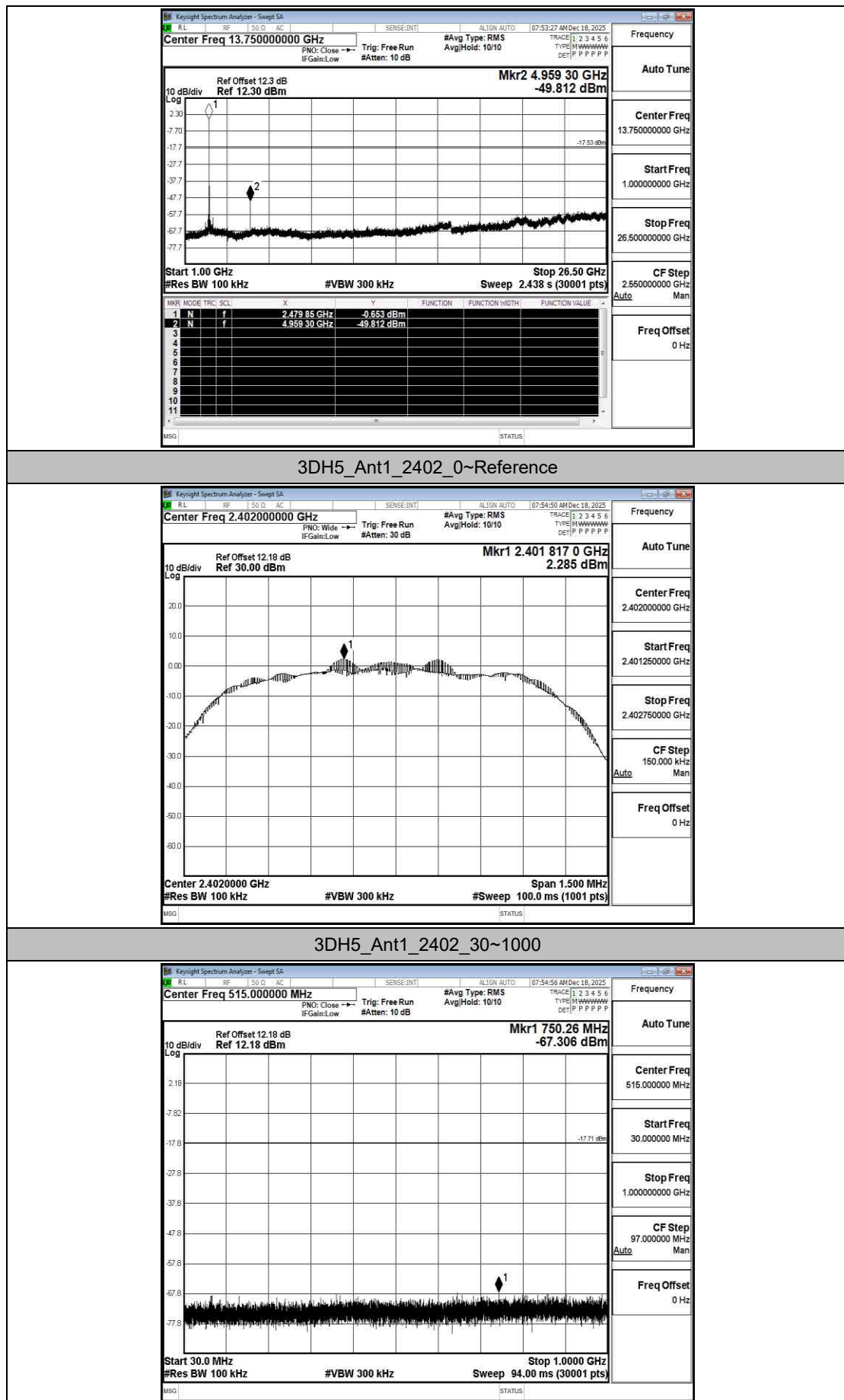
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

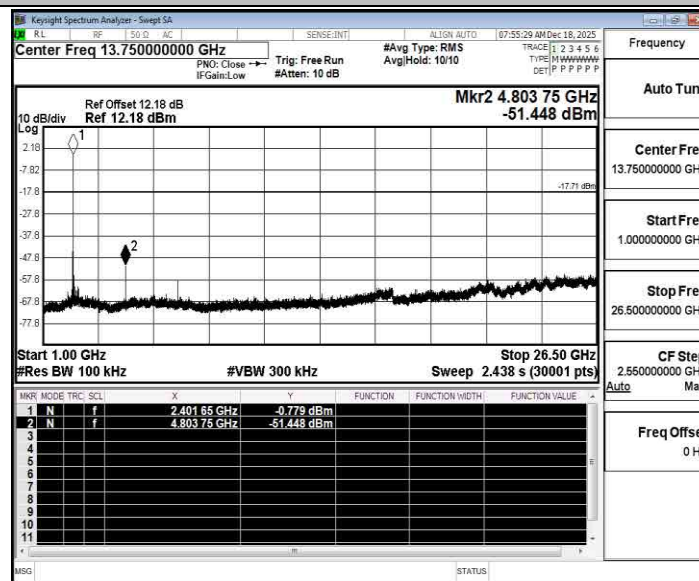


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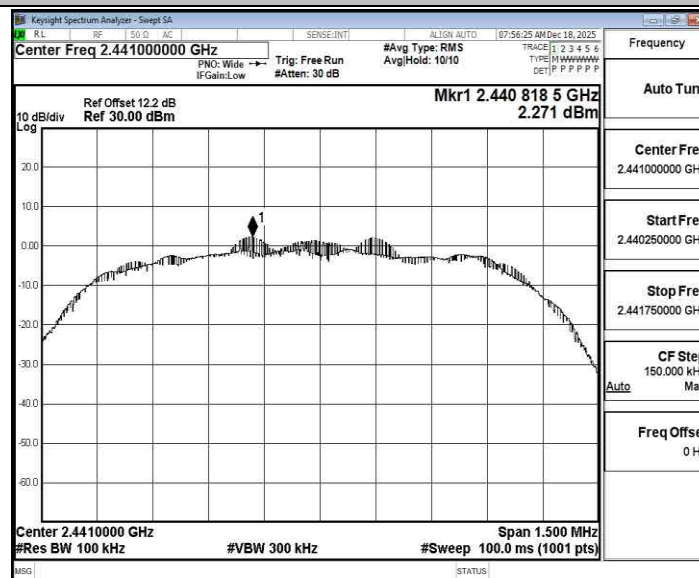
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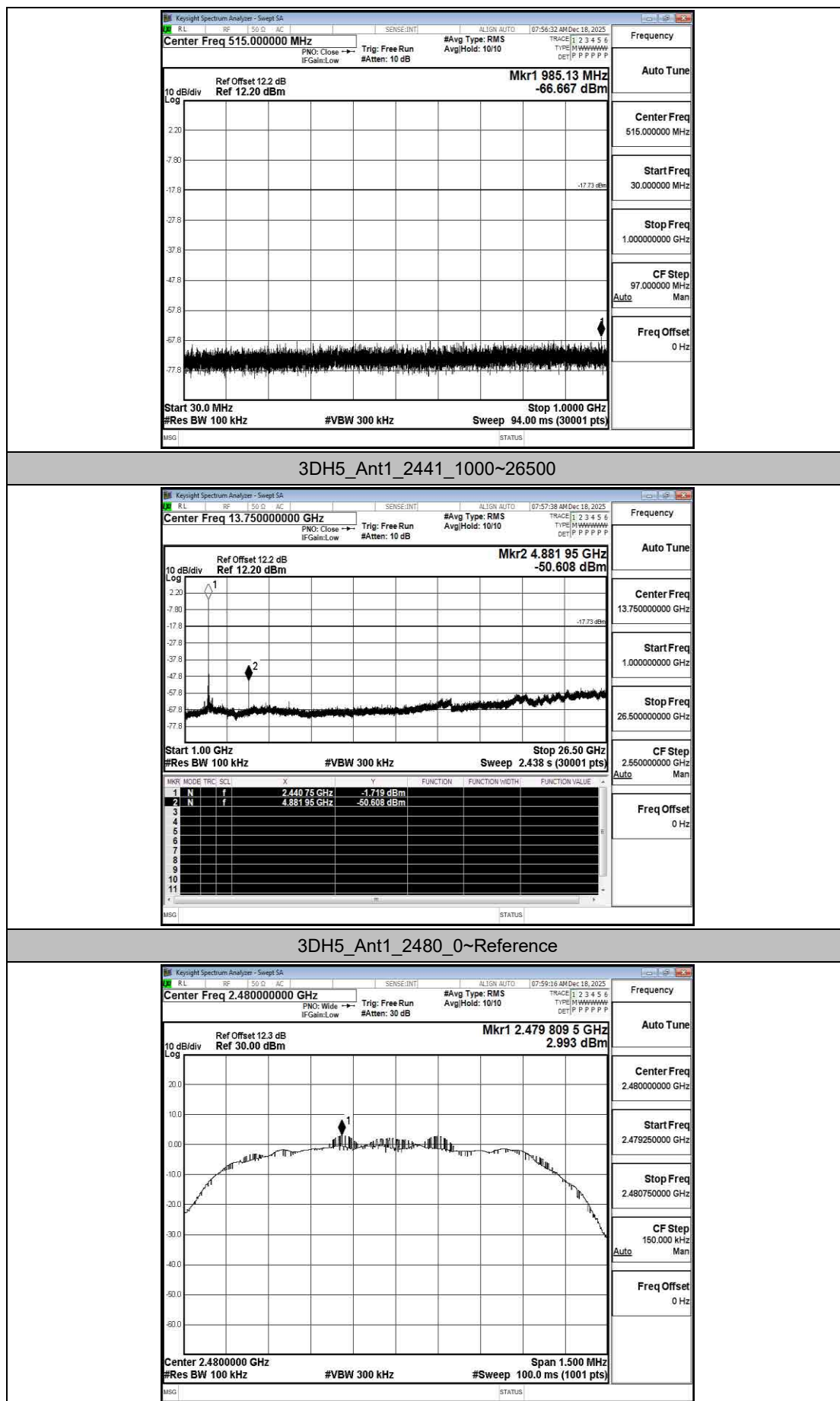
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



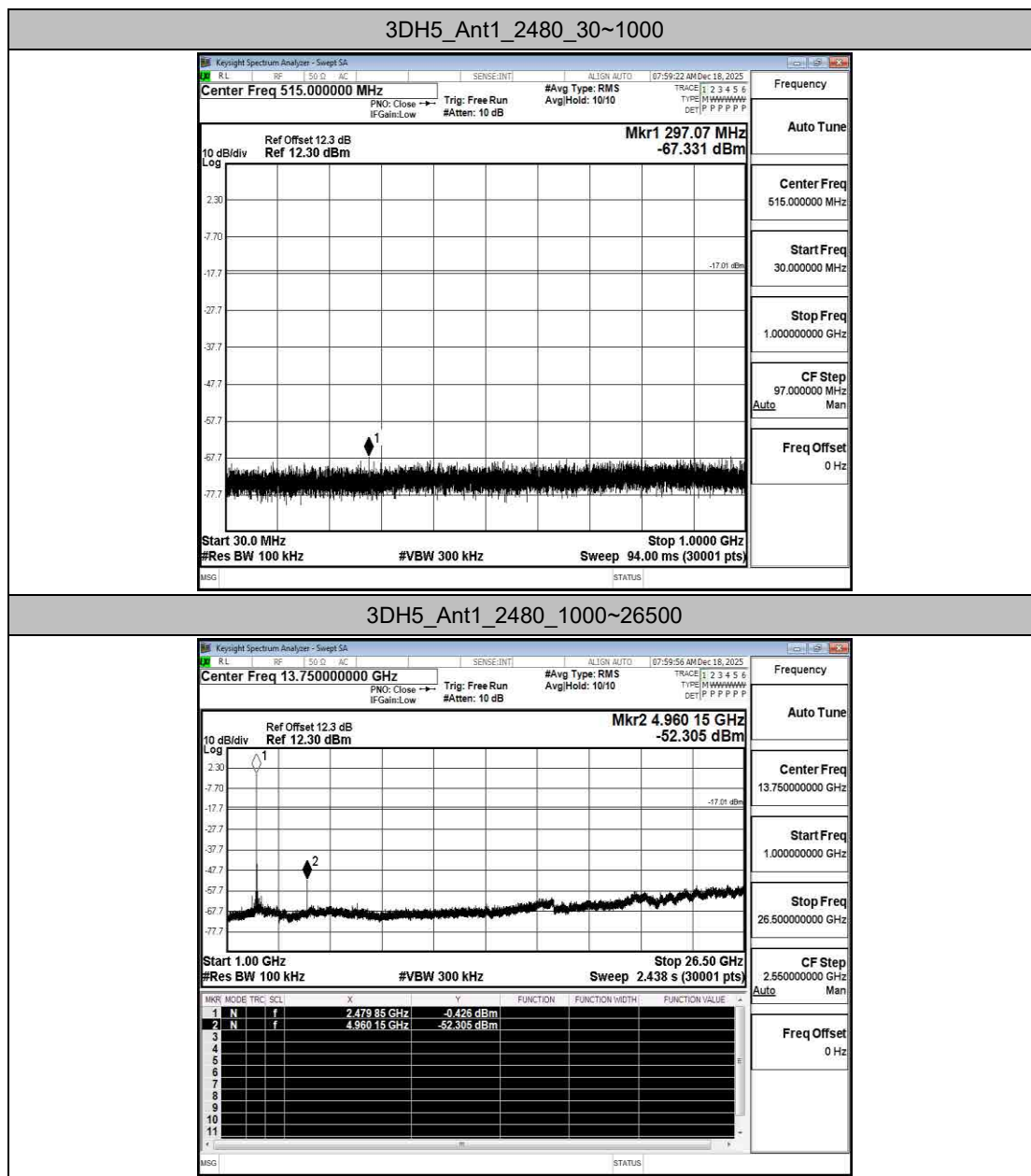
3DH5_Ant1_2441_30~1000



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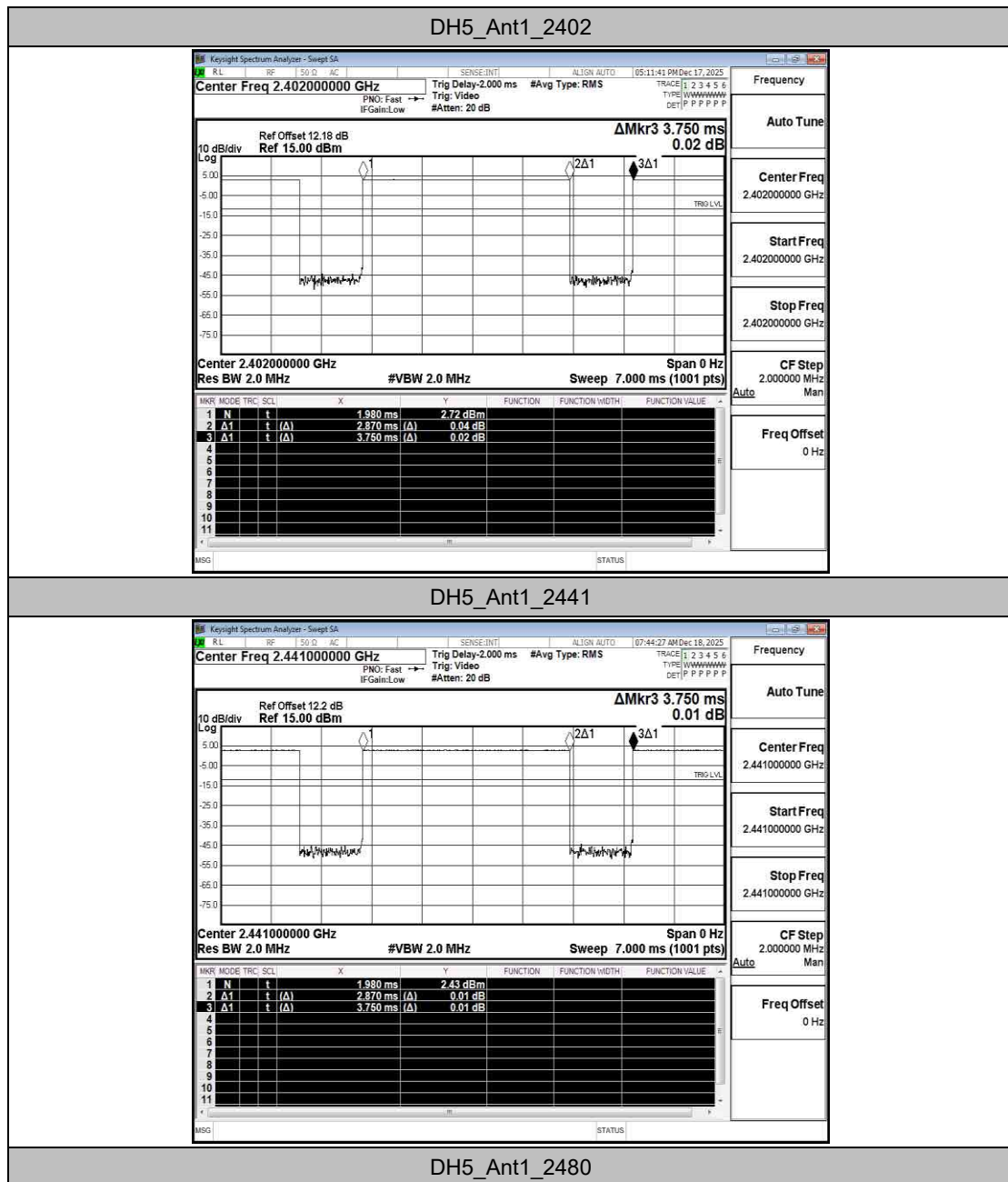


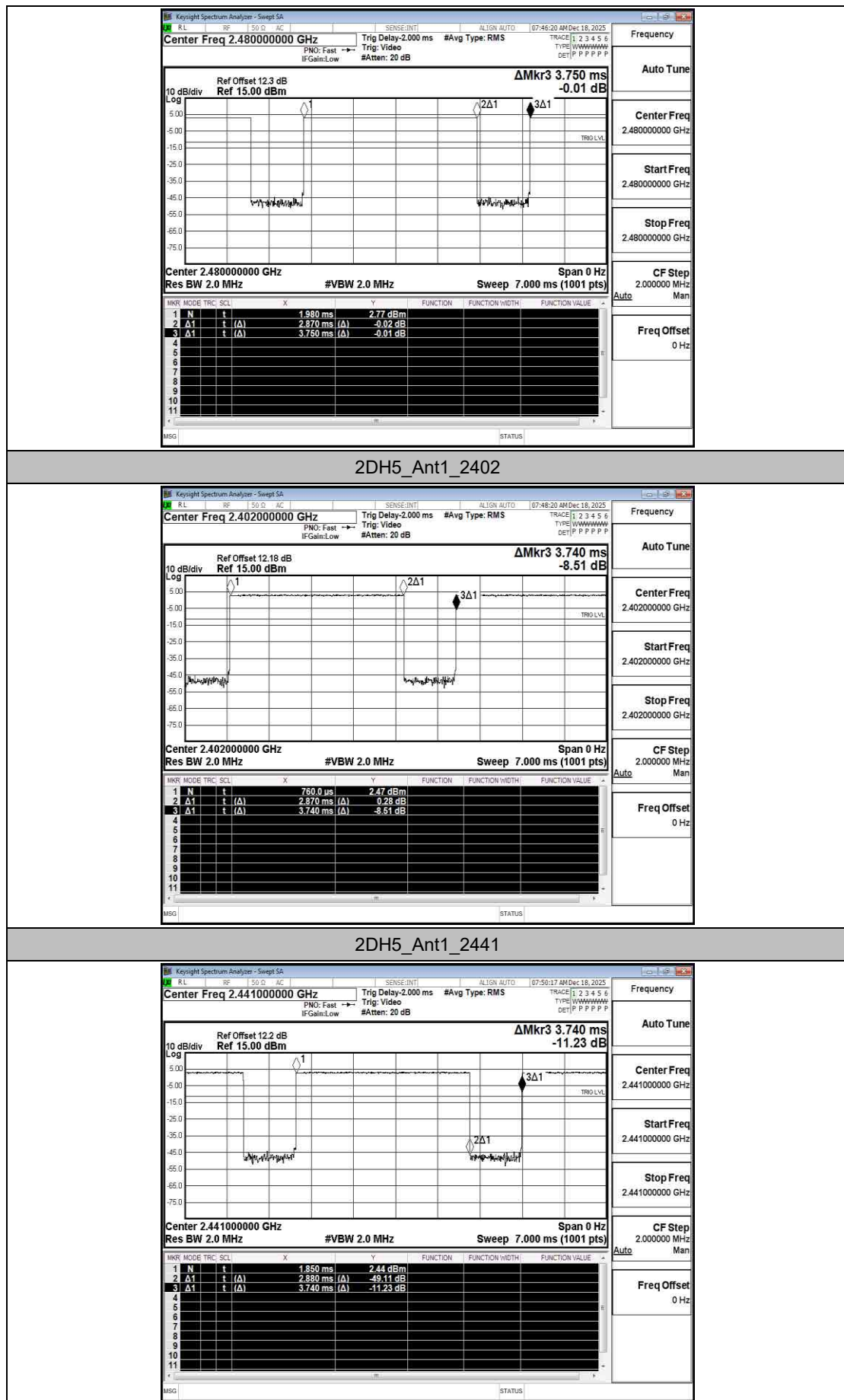
A.8 Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	76.53	1.16	---	---
		2441	2.87	3.75	76.53	1.16	---	---
		2480	2.87	3.75	76.53	1.16	---	---
2DH5	Ant1	2402	2.87	3.74	76.74	1.15	---	---
		2441	2.88	3.74	77.01	1.13	---	---
		2480	2.88	3.75	76.80	1.15	---	---
3DH5	Ant1	2402	2.88	3.75	76.80	1.15	---	---
		2441	2.88	3.75	76.80	1.15	---	---
		2480	2.88	3.75	76.80	1.15	---	---

Test Graphs



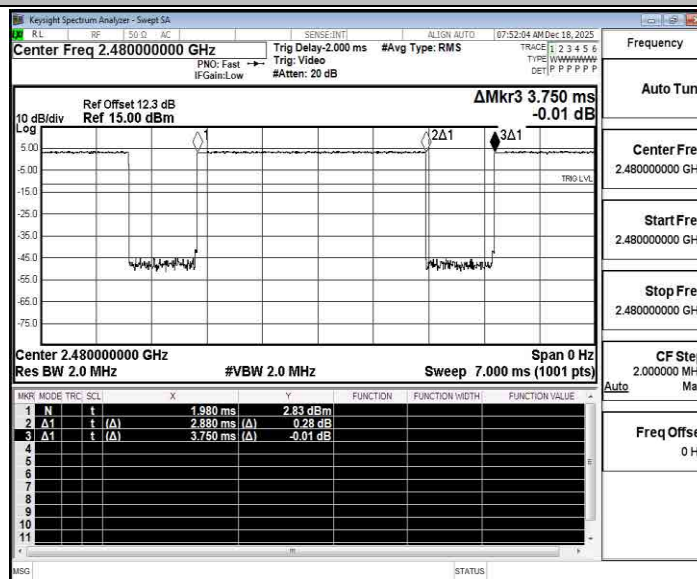


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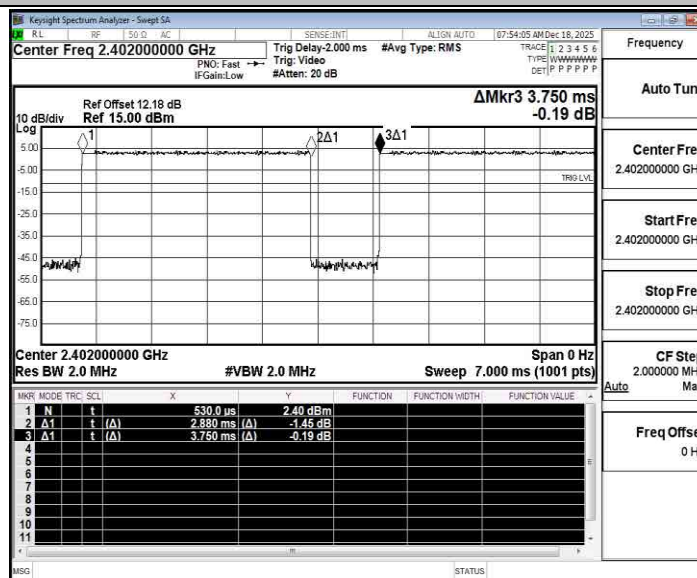
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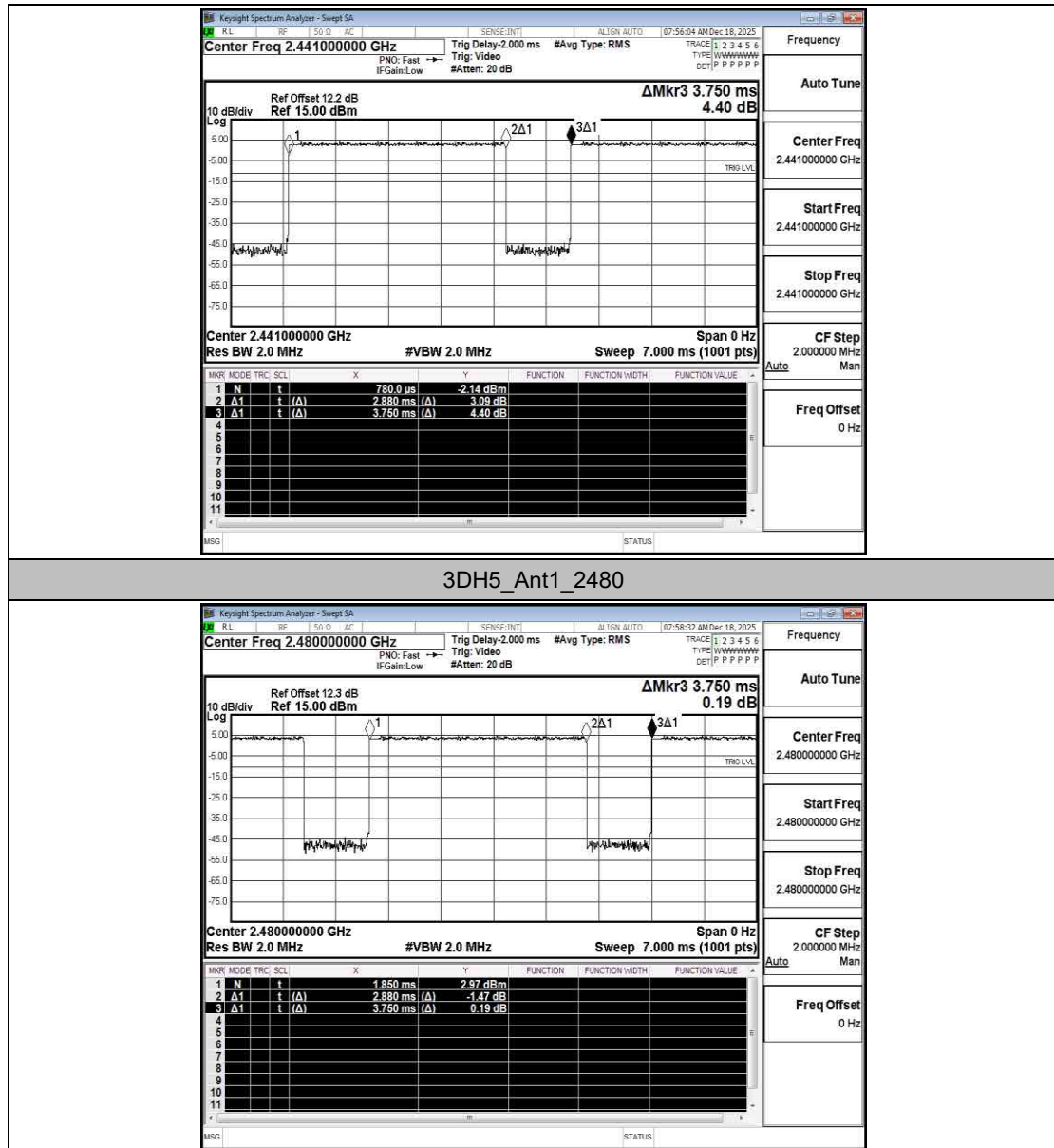
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



A.9 Emissions in Restricted Bands

Test Result

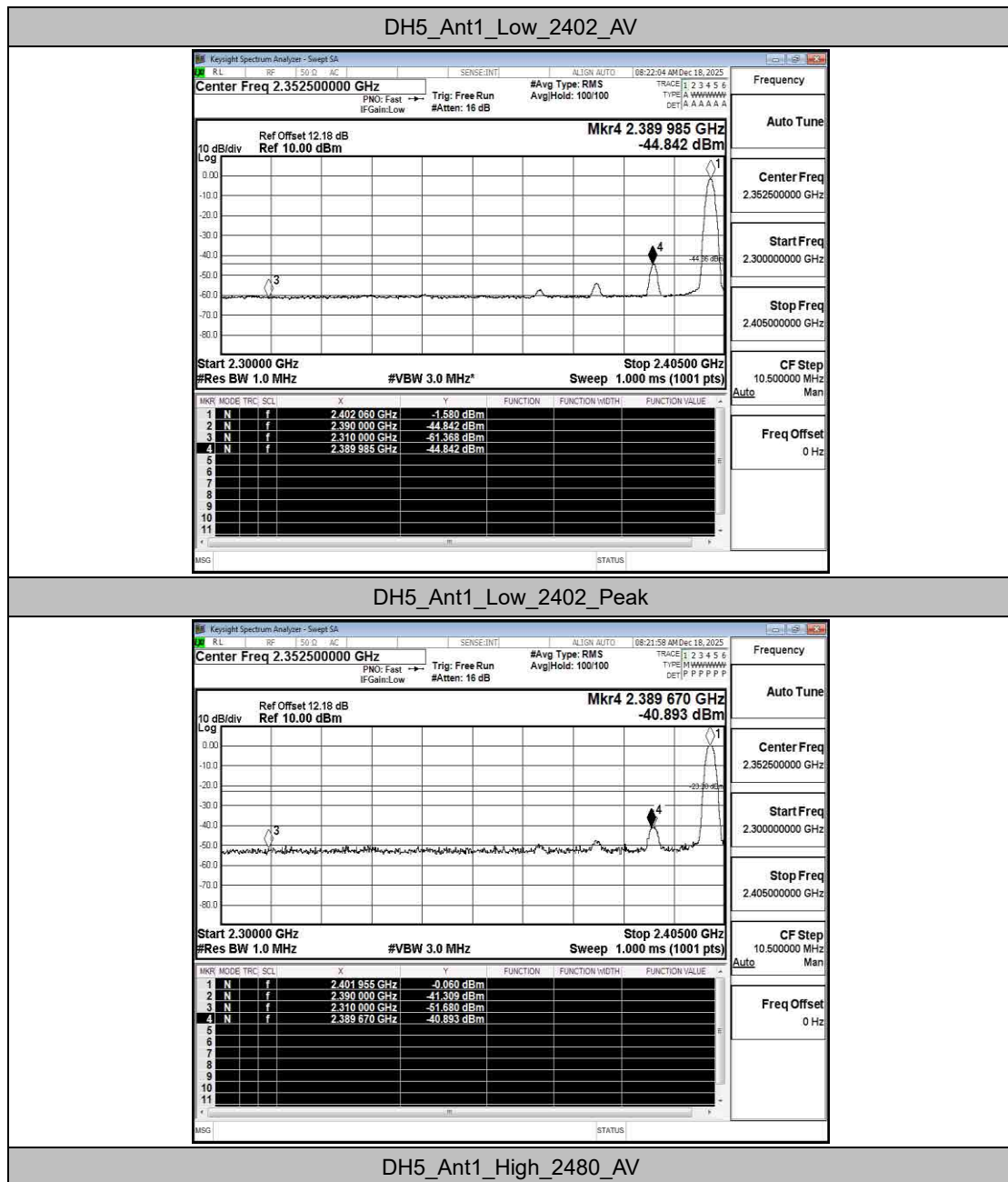
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-61.37	≤-44.36	2.00	1.16	36.99	≤54	PASS
				AV	2389.985	-44.84	≤-44.36	2.00	1.16	53.52	≤54	PASS
				AV	2390.000	-44.84	≤-44.36	2.00	1.16	53.52	≤54	PASS
				Peak	2310.000	-51.68	≤-23.20	2.00	0.00	45.52	≤74	PASS
				Peak	2389.670	-40.89	≤-23.20	2.00	0.00	56.31	≤74	PASS
				Peak	2390.000	-41.31	≤-23.20	2.00	0.00	55.89	≤74	PASS
		High	2480	AV	2483.500	-57.87	≤-44.36	2.00	1.16	40.49	≤54	PASS
				AV	2491.920	-44.75	≤-44.36	2.00	1.16	53.61	≤54	PASS
				AV	2500.000	-60.45	≤-44.36	2.00	1.16	37.91	≤54	PASS
				Peak	2483.500	-49.05	≤-23.20	2.00	0.00	48.15	≤74	PASS
				Peak	2491.840	-40.73	≤-23.20	2.00	0.00	56.47	≤74	PASS
				Peak	2500.000	-53.19	≤-23.20	2.00	0.00	44.01	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-52.23	≤-23.20	2.00	0.00	44.97	≤74	PASS
				Peak	2386.625	-45.78	≤-23.20	2.00	0.00	51.42	≤74	PASS
				Peak	2390.000	-47.15	≤-23.20	2.00	0.00	50.05	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.41	≤-23.20	2.00	0.00	56.79	≤74	PASS
				Peak	2486.160	-38.21	≤-23.20	2.00	0.00	58.99	≤74	PASS
				Peak	2500.000	-51.78	≤-23.20	2.00	0.00	45.42	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-61.42	≤-44.35	2.00	1.15	36.93	≤54	PASS
				AV	2389.985	-44.52	≤-44.35	2.00	1.15	53.83	≤54	PASS
				AV	2390.000	-44.52	≤-44.35	2.00	1.15	53.83	≤54	PASS
				Peak	2310.000	-54	≤-23.20	2.00	0.00	43.20	≤74	PASS
				Peak	2389.775	-39.61	≤-23.20	2.00	0.00	57.59	≤74	PASS
				Peak	2390.000	-39.8	≤-23.20	2.00	0.00	57.40	≤74	PASS
		High	2480	AV	2483.500	-58.63	≤-44.35	2.00	1.15	39.72	≤54	PASS
				AV	2491.760	-46.04	≤-44.35	2.00	1.15	52.31	≤54	PASS
				AV	2500.000	-60.77	≤-44.35	2.00	1.15	37.58	≤54	PASS
				Peak	2483.500	-50.92	≤-23.20	2.00	0.00	46.28	≤74	PASS
				Peak	2492.080	-41.03	≤-23.20	2.00	0.00	56.17	≤74	PASS
				Peak	2500.000	-52.7	≤-23.20	2.00	0.00	44.50	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-53.15	≤-23.20	2.00	0.00	44.05	≤74	PASS
				Peak	2390.000	-40.2	≤-23.20	2.00	0.00	57.00	≤74	PASS
		High	Hop_2480	Peak	2483.500	-40.53	≤-23.20	2.00	0.00	56.67	≤74	PASS
				Peak	2484.800	-38.37	≤-23.20	2.00	0.00	58.83	≤74	PASS
				Peak	2500.000	-50.09	≤-23.20	2.00	0.00	47.11	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-61.25	≤-44.35	2.00	1.15	37.10	≤54	PASS

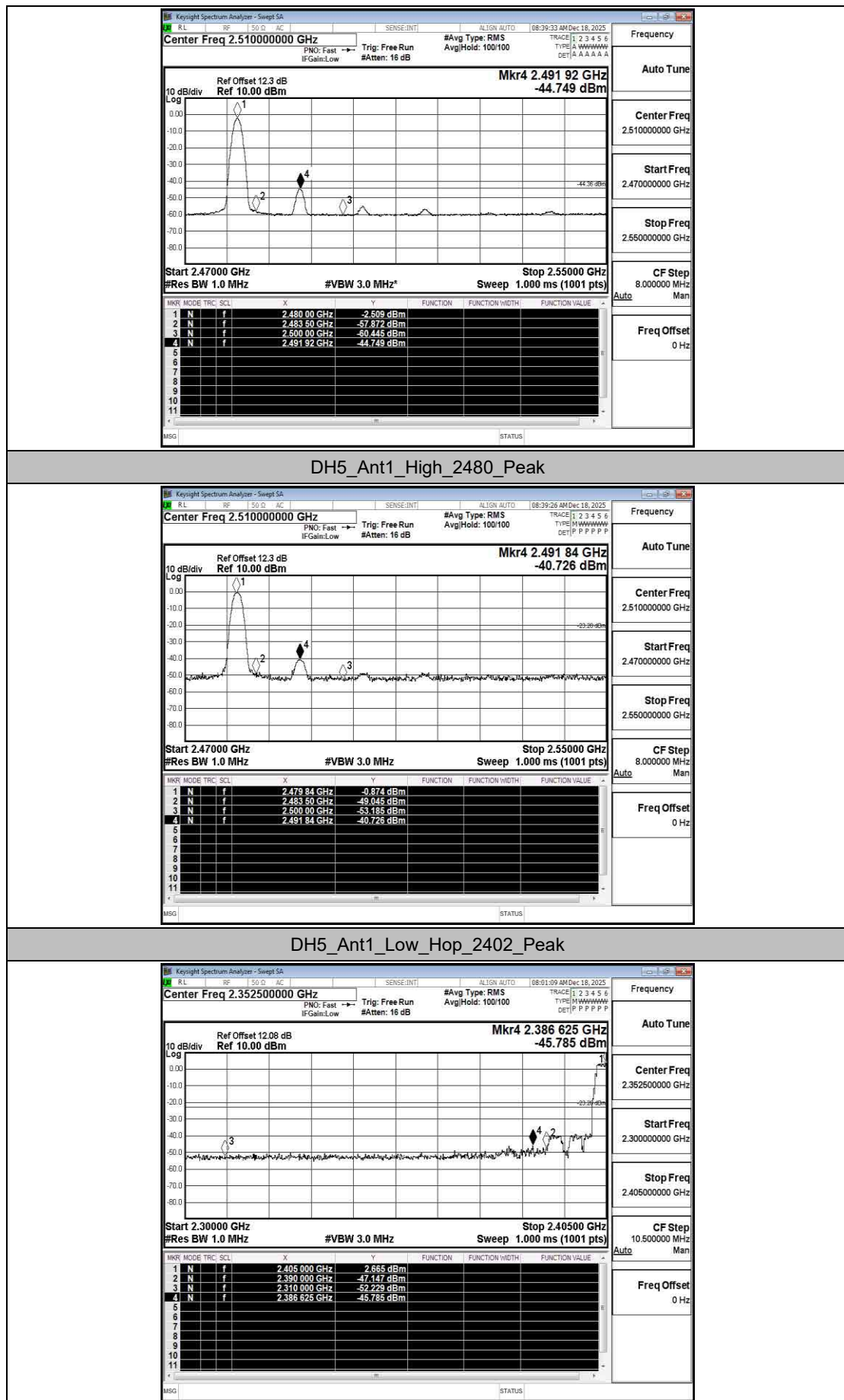
				AV	2389.985	-47.1	≤-44.35	2.00	1.15	51.25	≤54	PASS
				AV	2390.000	-47.1	≤-44.35	2.00	1.15	51.25	≤54	PASS
				Peak	2310.000	-53.08	≤-23.20	2.00	0.00	44.12	≤74	PASS
				Peak	2389.880	-42.16	≤-23.20	2.00	0.00	55.04	≤74	PASS
				Peak	2390.000	-42.3	≤-23.20	2.00	0.00	54.90	≤74	PASS
		High	2480	AV	2483.500	-58.98	≤-44.35	2.00	1.15	39.37	≤54	PASS
				AV	2491.840	-46.37	≤-44.35	2.00	1.15	51.98	≤54	PASS
				AV	2500.000	-60.77	≤-44.35	2.00	1.15	37.58	≤54	PASS
				Peak	2483.500	-49.56	≤-23.20	2.00	0.00	47.64	≤74	PASS
				Peak	2491.680	-40.57	≤-23.20	2.00	0.00	56.63	≤74	PASS
				Peak	2500.000	-52.19	≤-23.20	2.00	0.00	45.01	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-53.18	≤-23.20	2.00	0.00	44.02	≤74	PASS
				Peak	2390.000	-40.74	≤-23.20	2.00	0.00	56.46	≤74	PASS
		High	Hop_2480	Peak	2483.500	-41.1	≤-23.20	2.00	0.00	56.10	≤74	PASS
				Peak	2488.080	-38.44	≤-23.20	2.00	0.00	58.76	≤74	PASS
				Peak	2500.000	-52.37	≤-23.20	2.00	0.00	44.83	≤74	PASS

Note:

1. 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



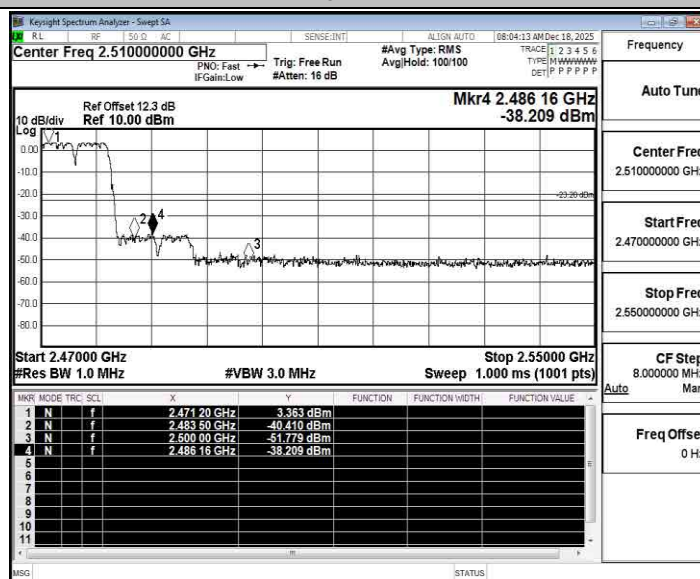


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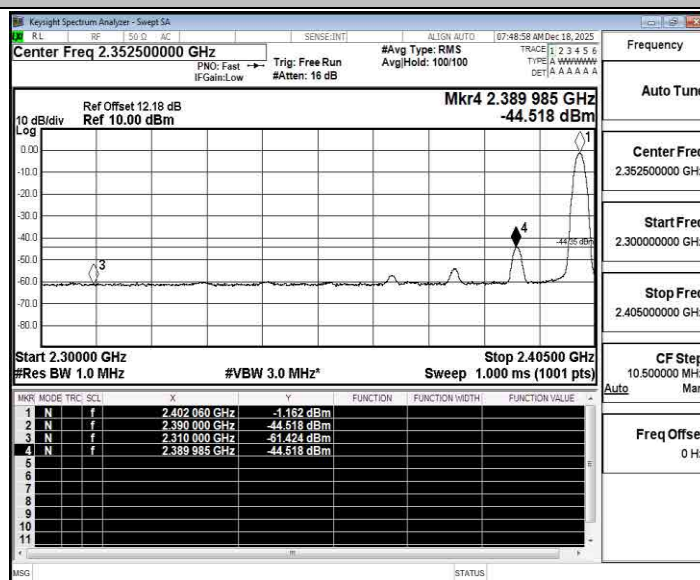
Add: No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China

Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

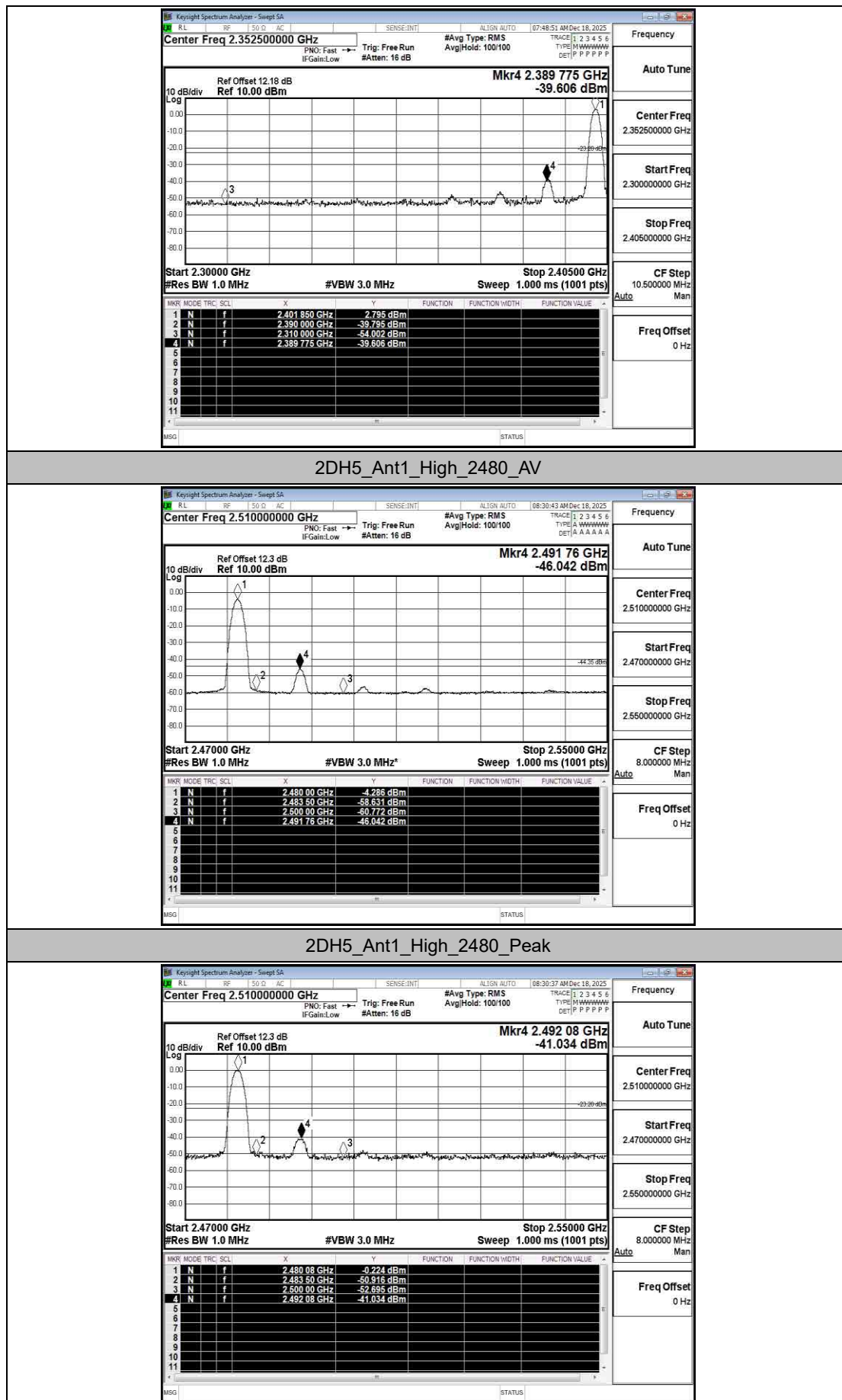
DH5_Ant1_High_Hop_2480_Peak



2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak

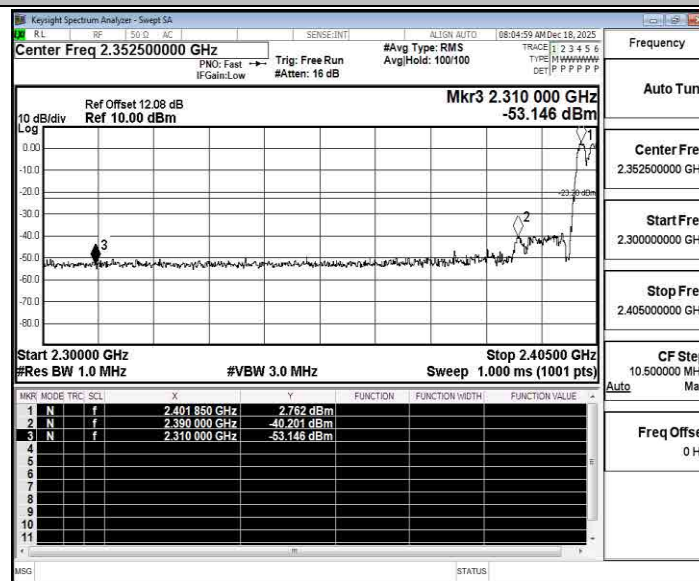


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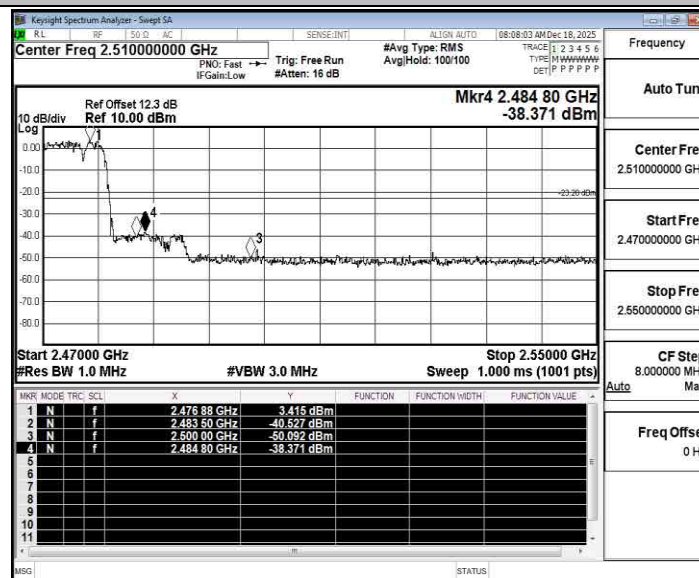
Add: No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China

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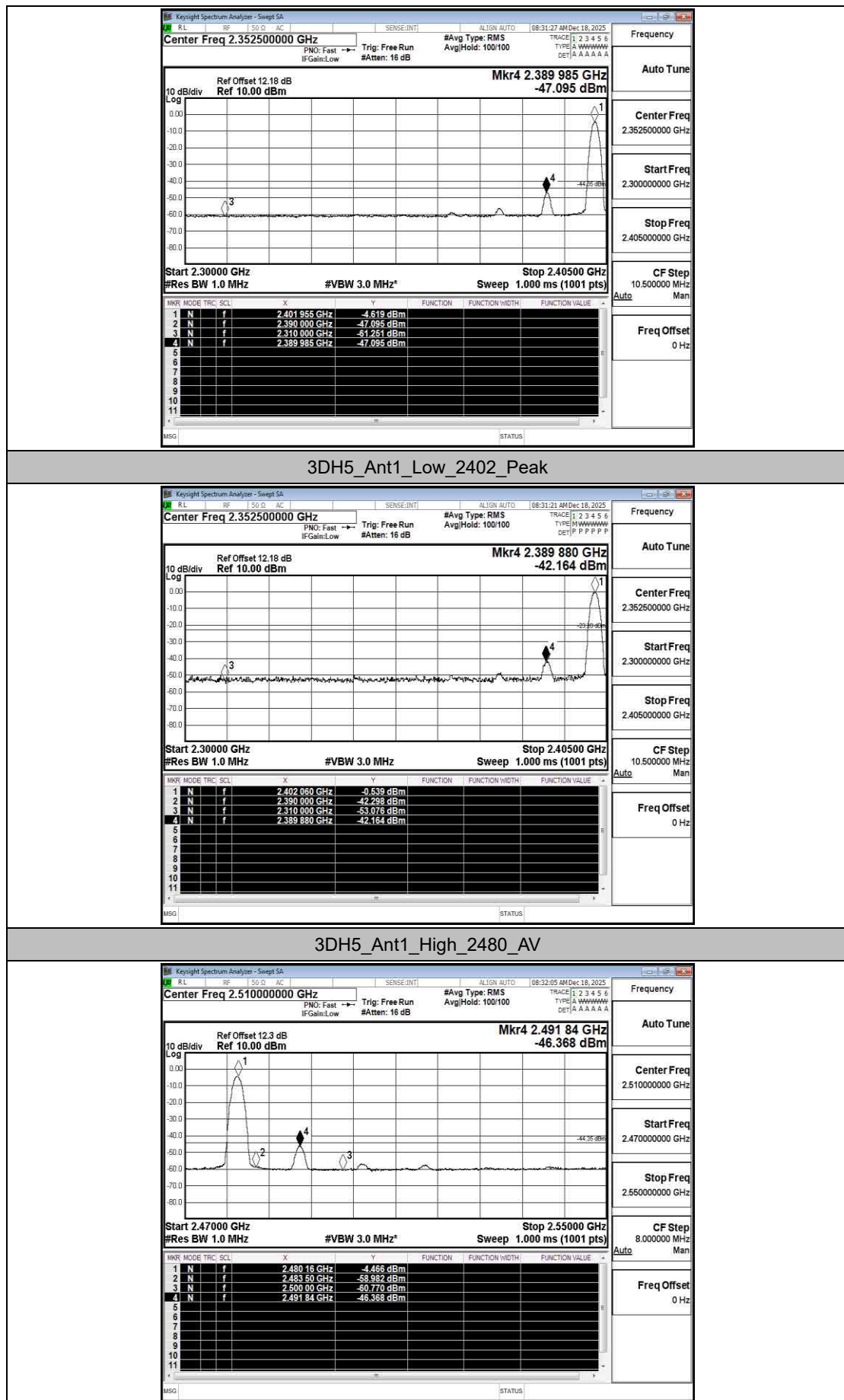
2DH5_Ant1_Low_Hop_2402_Peak



2DH5_Ant1_High_Hop_2480_Peak



3DH5_Ant1_Low_2402_AV

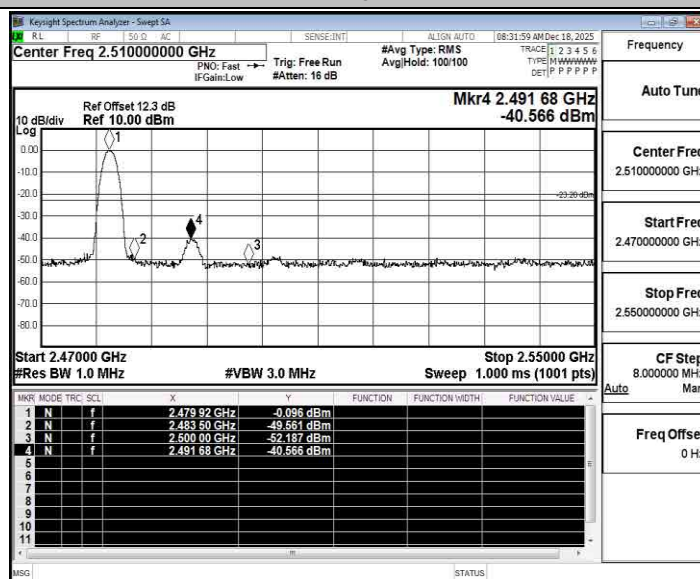


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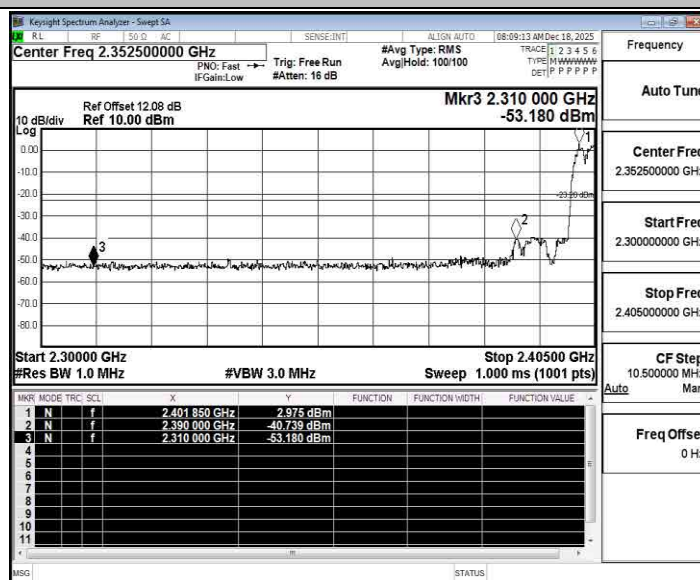
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3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak



3DH5_Ant1_High_Hop_2480_Peak

