

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Ai glasses

Test Model: BS-AIGLS

Environmental Conditions

Temperature:	23.2°C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

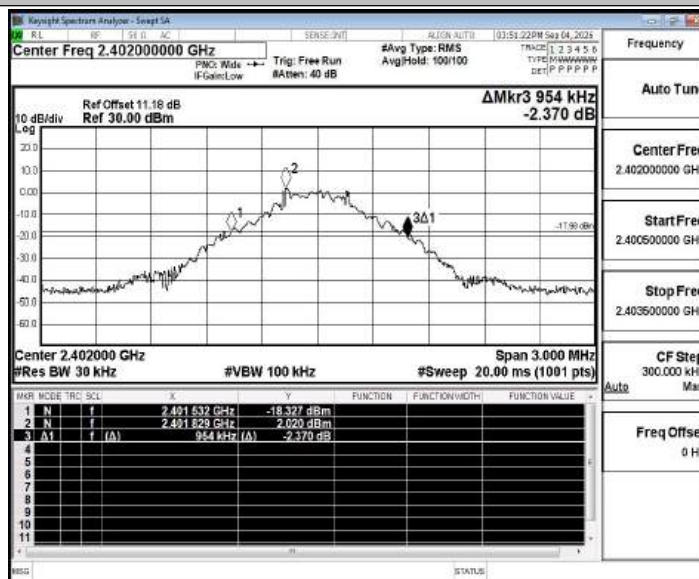
A.1 20dB Emission Bandwidth

Test Result

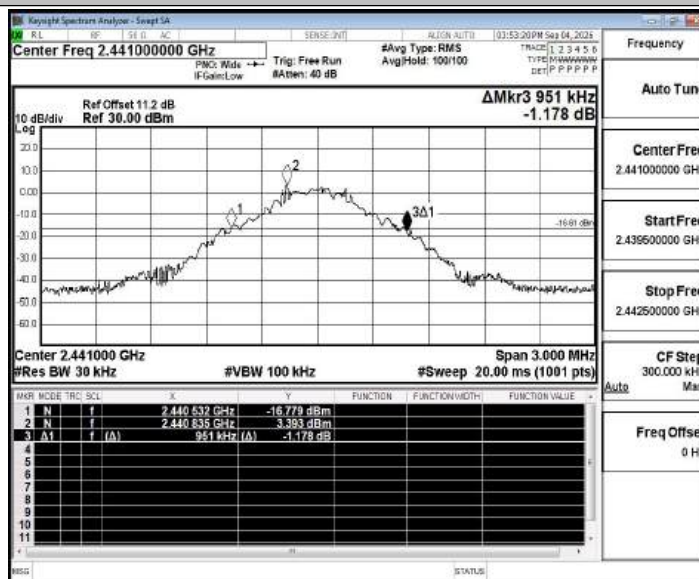
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.532	2402.486	---	---
		2441	0.951	2440.532	2441.483	---	---
		2480	0.966	2479.532	2480.498	---	---
2DH5	Ant1	2402	1.287	2401.361	2402.648	---	---
		2441	1.290	2440.358	2441.648	---	---
		2480	1.287	2479.361	2480.648	---	---
3DH5	Ant1	2402	1.296	2401.346	2402.642	---	---
		2441	1.299	2440.346	2441.645	---	---
		2480	1.296	2479.346	2480.642	---	---

Test Graphs

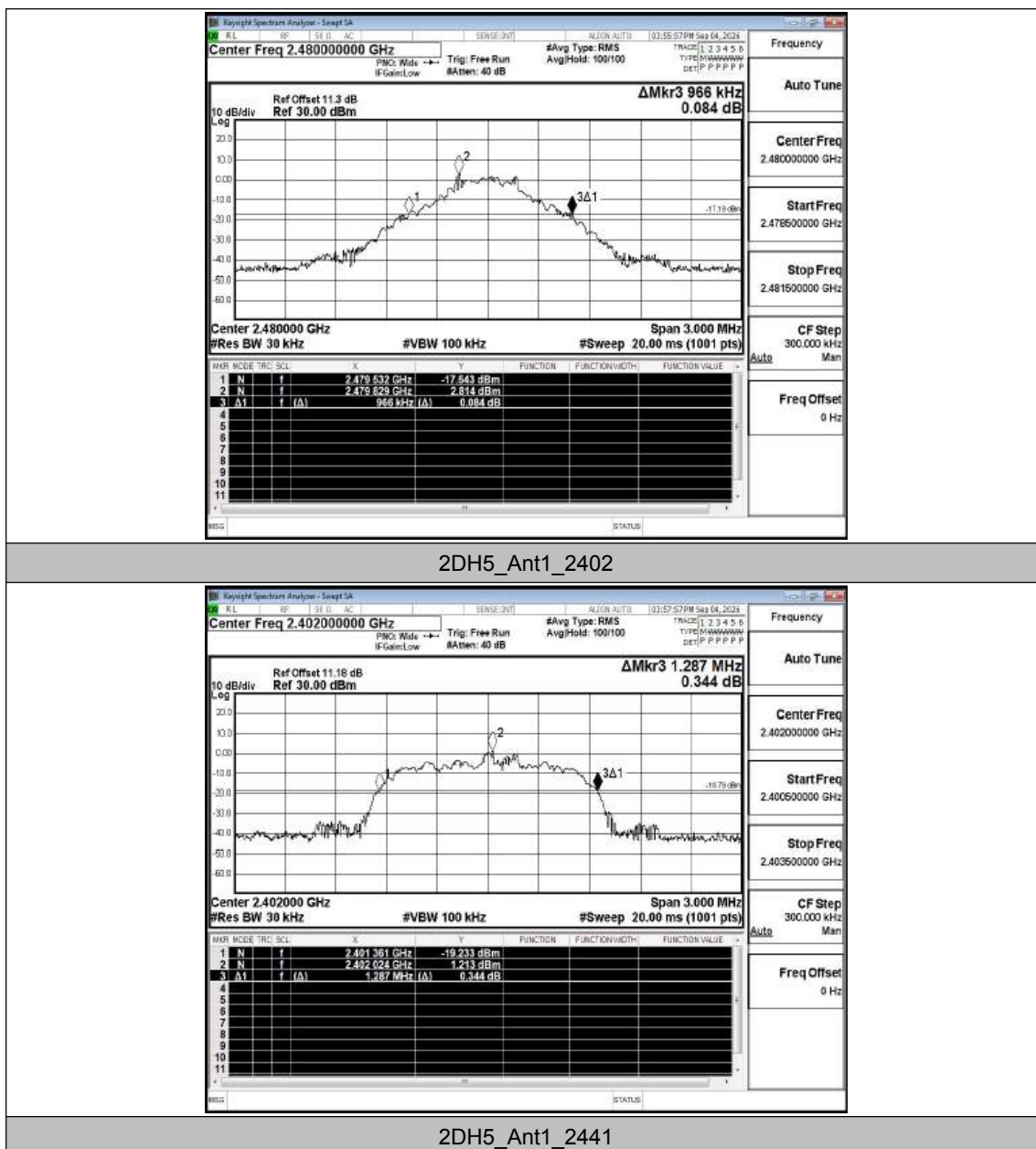
DH5_Ant1_2402

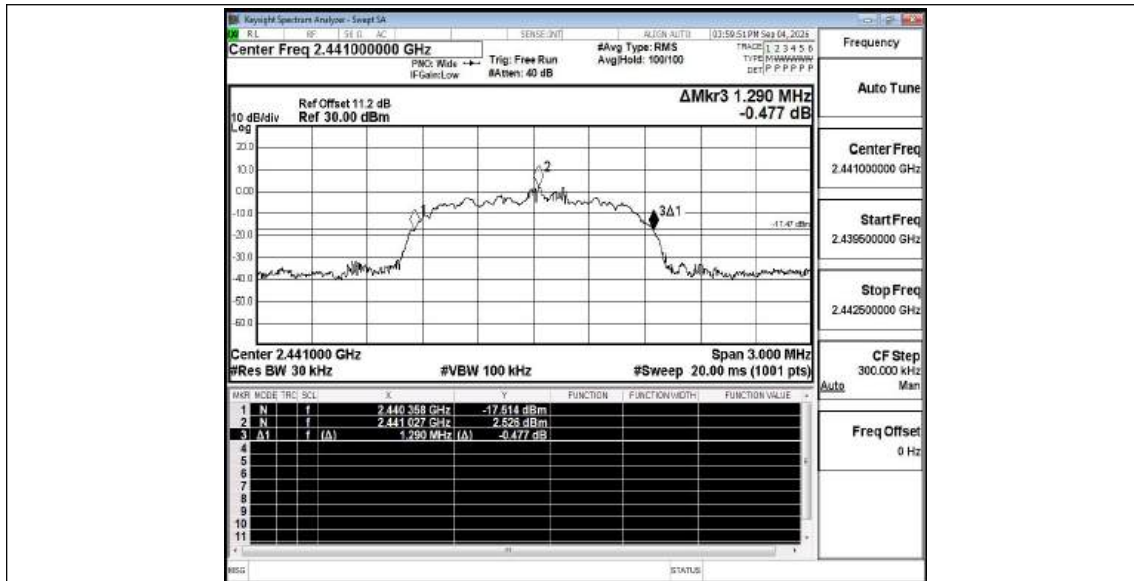


DH5_Ant1_2441

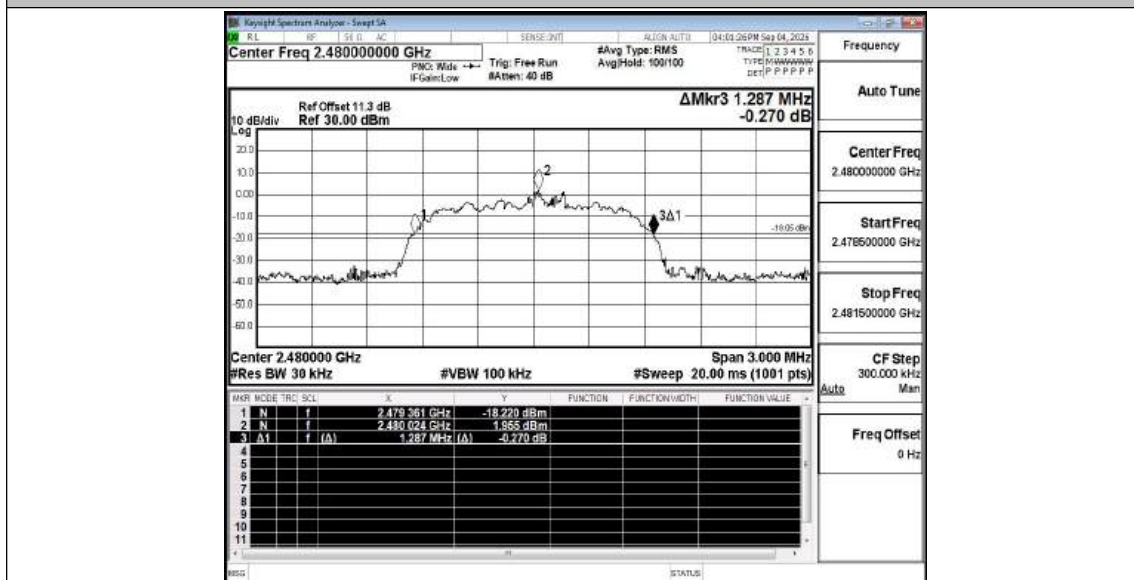


DH5_Ant1_2480

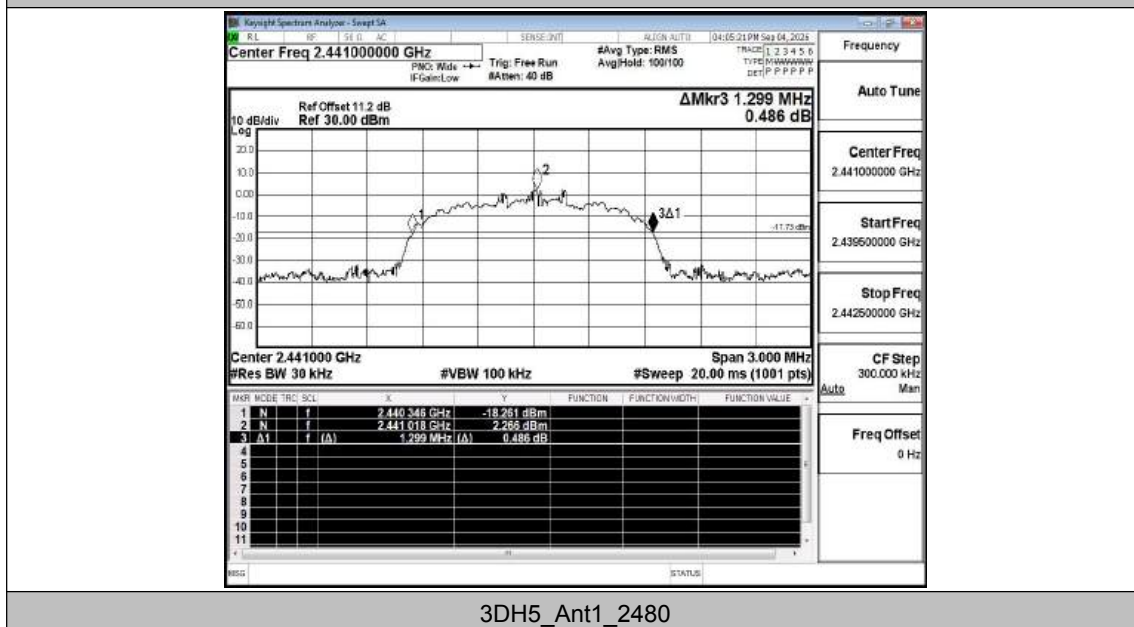
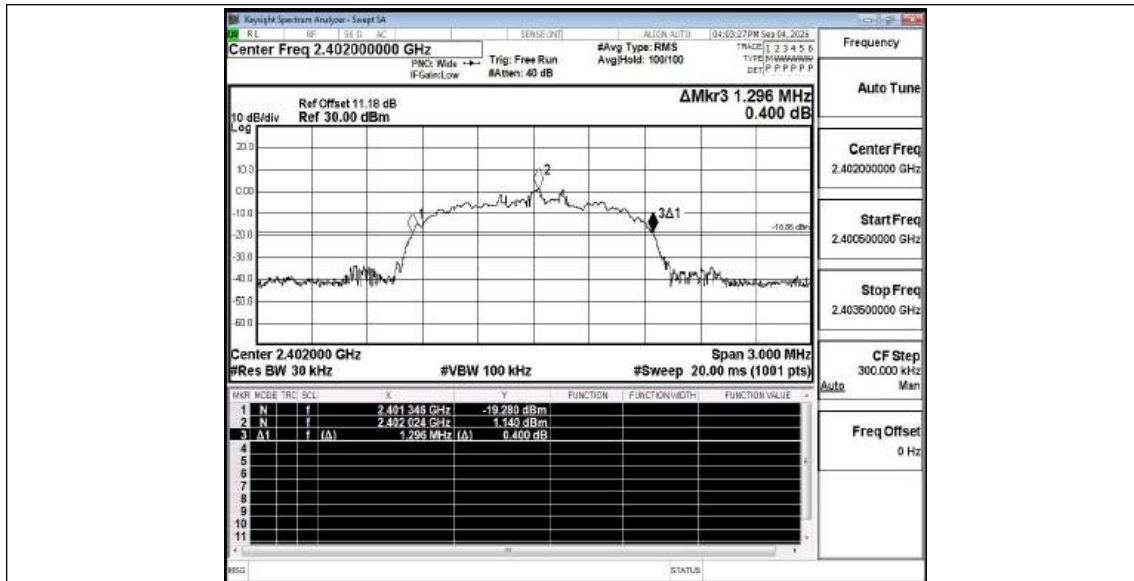


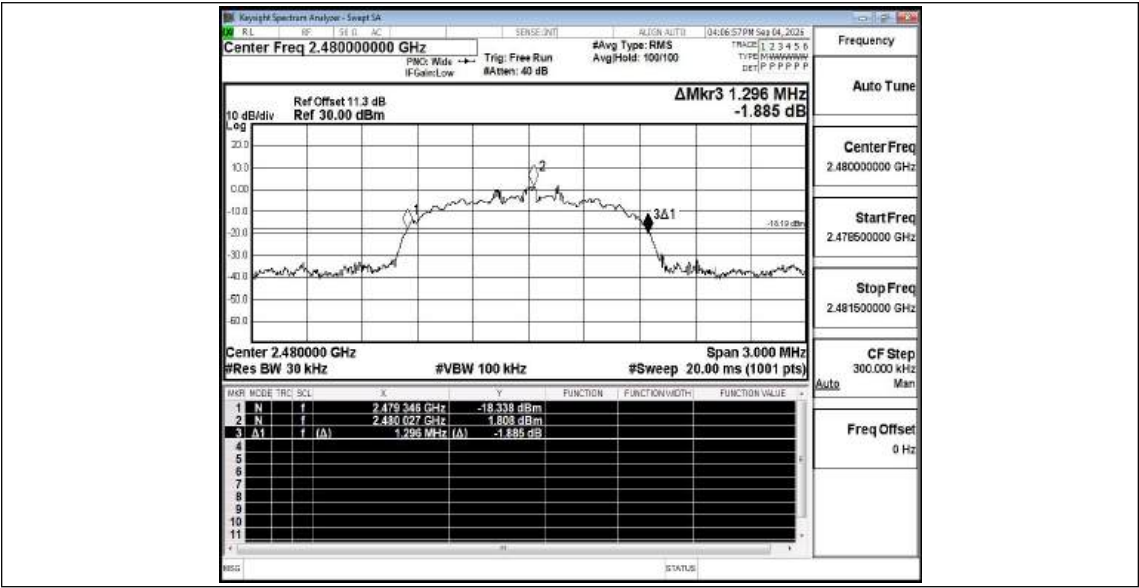


2DH5_Ant1_2480



3DH5_Ant1_2402





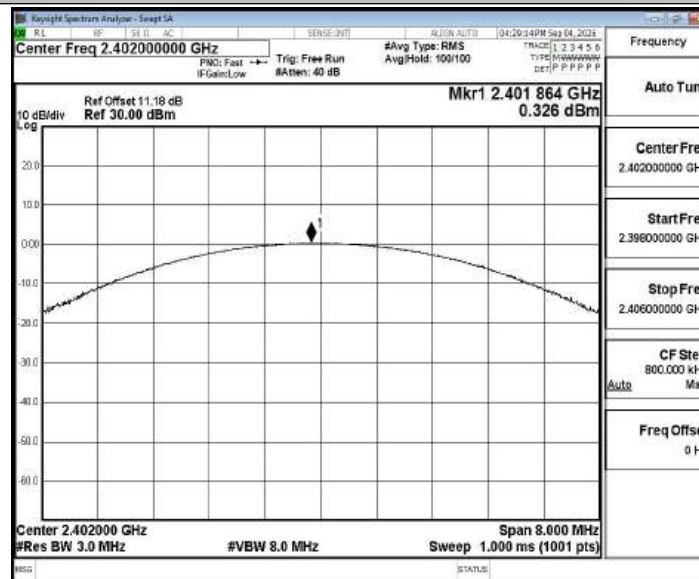
A.2 Maximum Peak conducted output power

Test Result

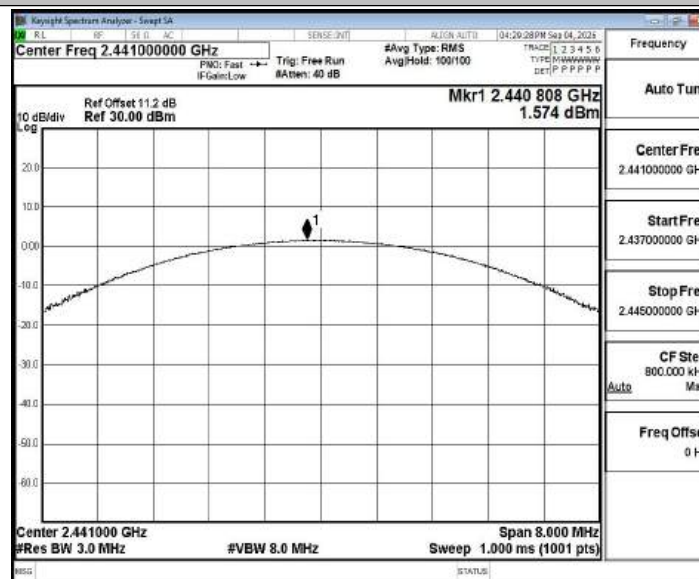
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.33	≤ 20.97	PASS
		2441	1.57	≤ 20.97	PASS
		2480	1.11	≤ 20.97	PASS
2DH5	Ant1	2402	-0.36	≤ 20.97	PASS
		2441	0.89	≤ 20.97	PASS
		2480	0.43	≤ 20.97	PASS
3DH5	Ant1	2402	-0.28	≤ 30	PASS
		2441	0.91	≤ 30	PASS
		2480	0.32	≤ 30	PASS

Test Graphs

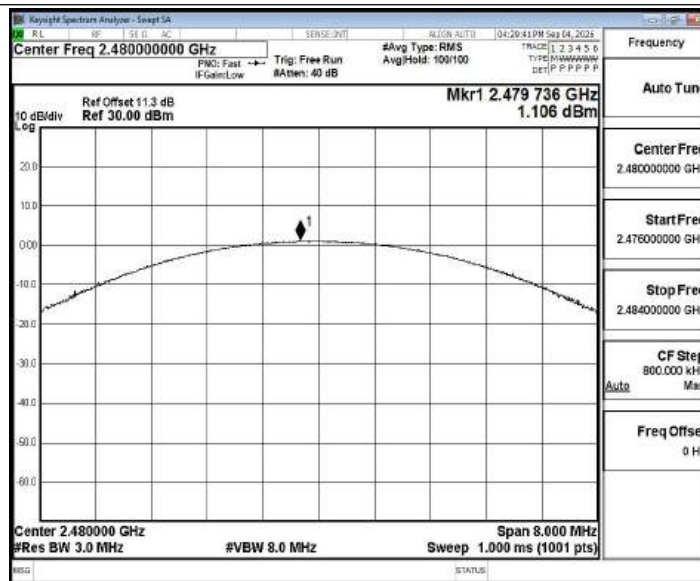
DH5_Ant1_2402



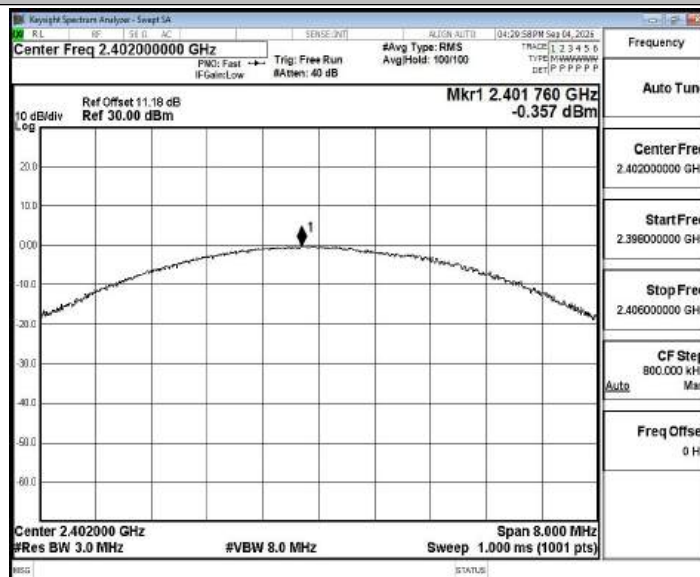
DH5_Ant1_2441



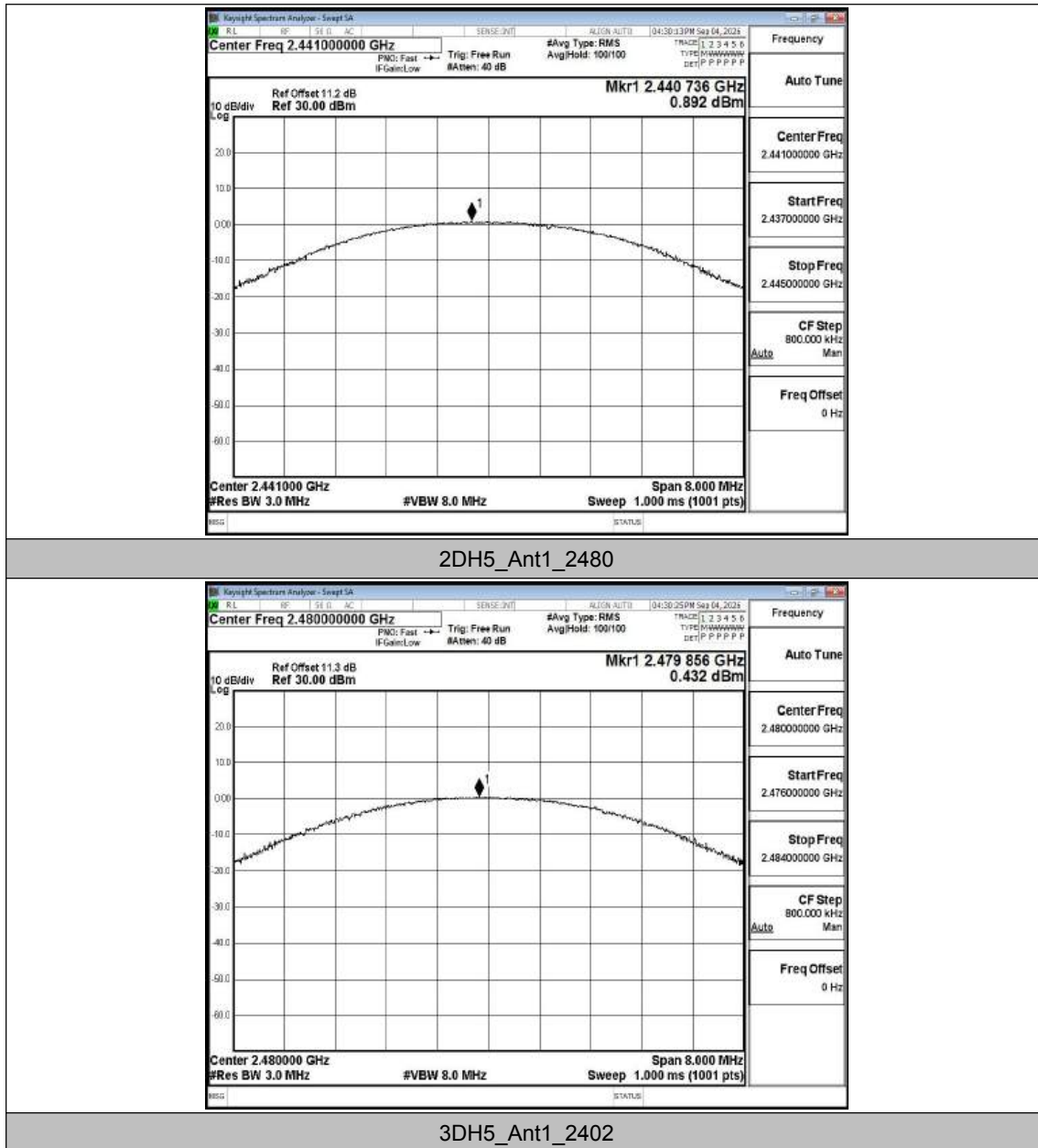
DH5_Ant1_2480

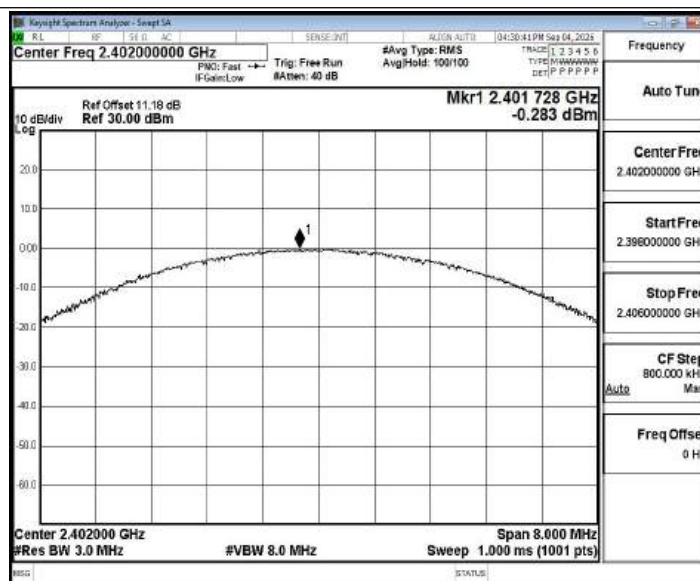


2DH5_Ant1_2402

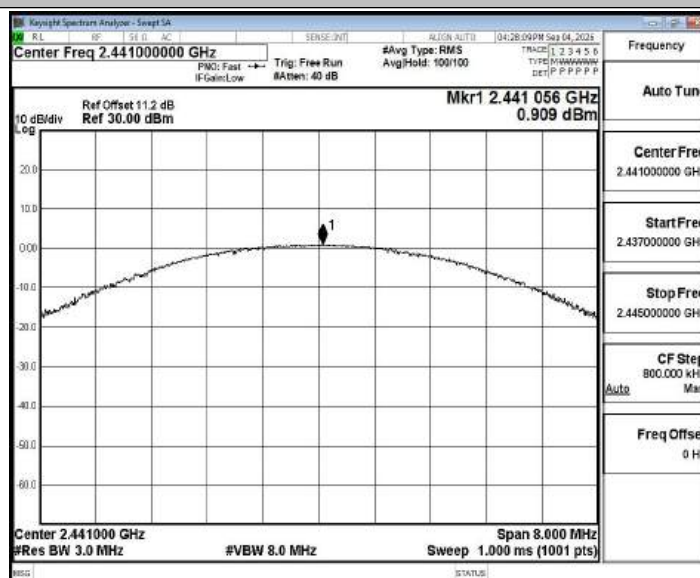


2DH5_Ant1_2441

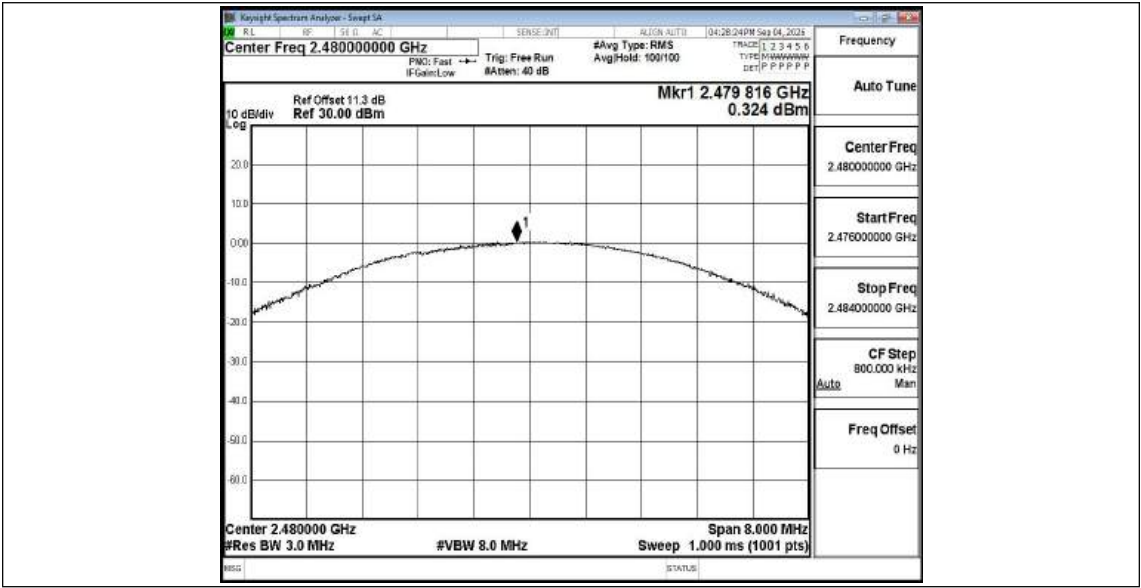




3DH5_Ant1_2441



3DH5_Ant1_2480



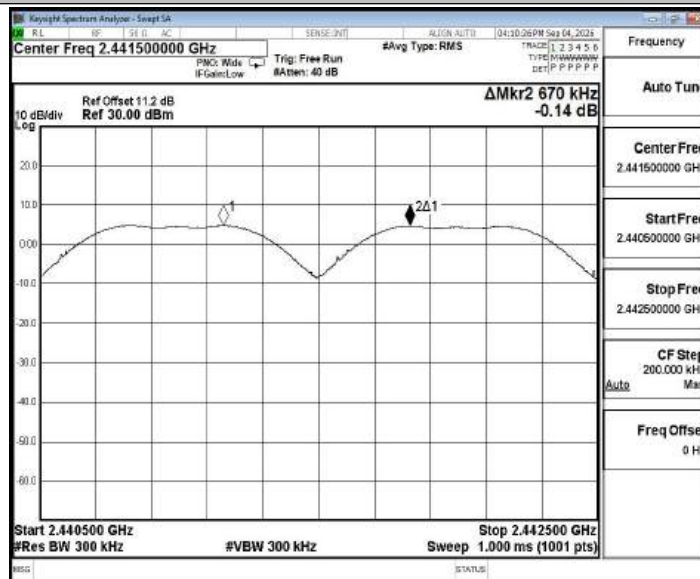
A.3 Carrier frequency separation

Test Result

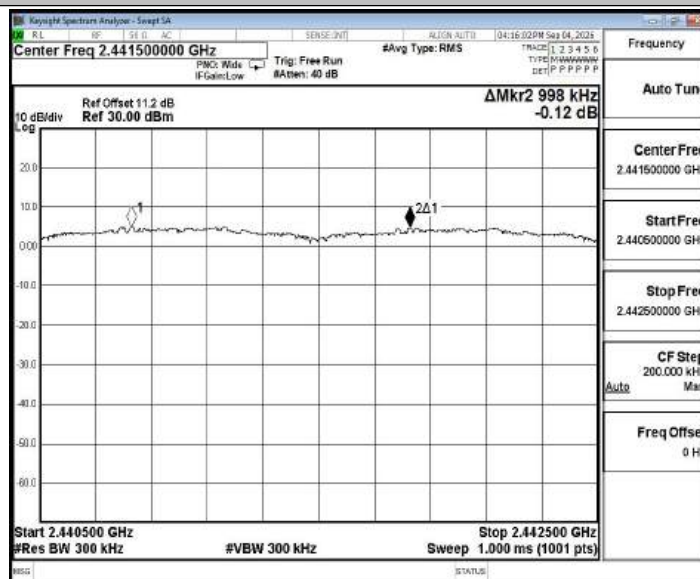
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.67	≥ 0.644	PASS
2DH5	Ant1	Hop	0.998	≥ 0.860	PASS
3DH5	Ant1	Hop	1.324	≥ 0.866	PASS

Test Graphs

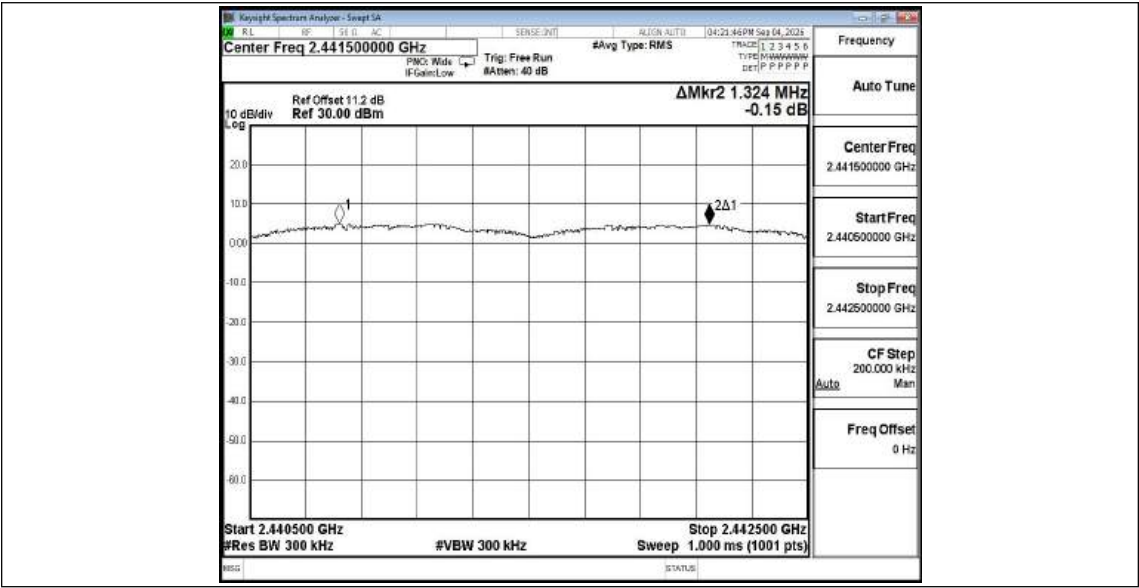
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

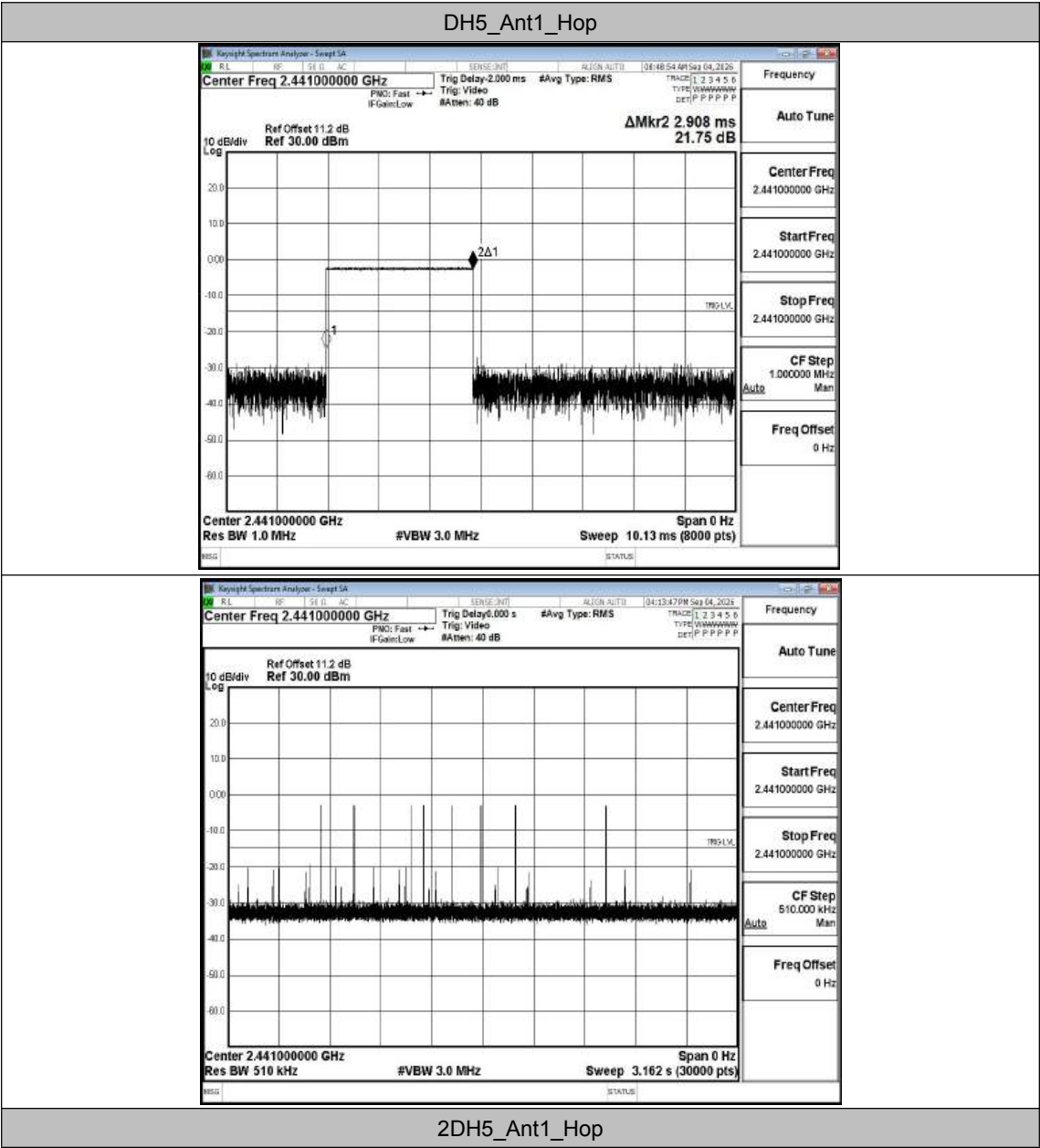


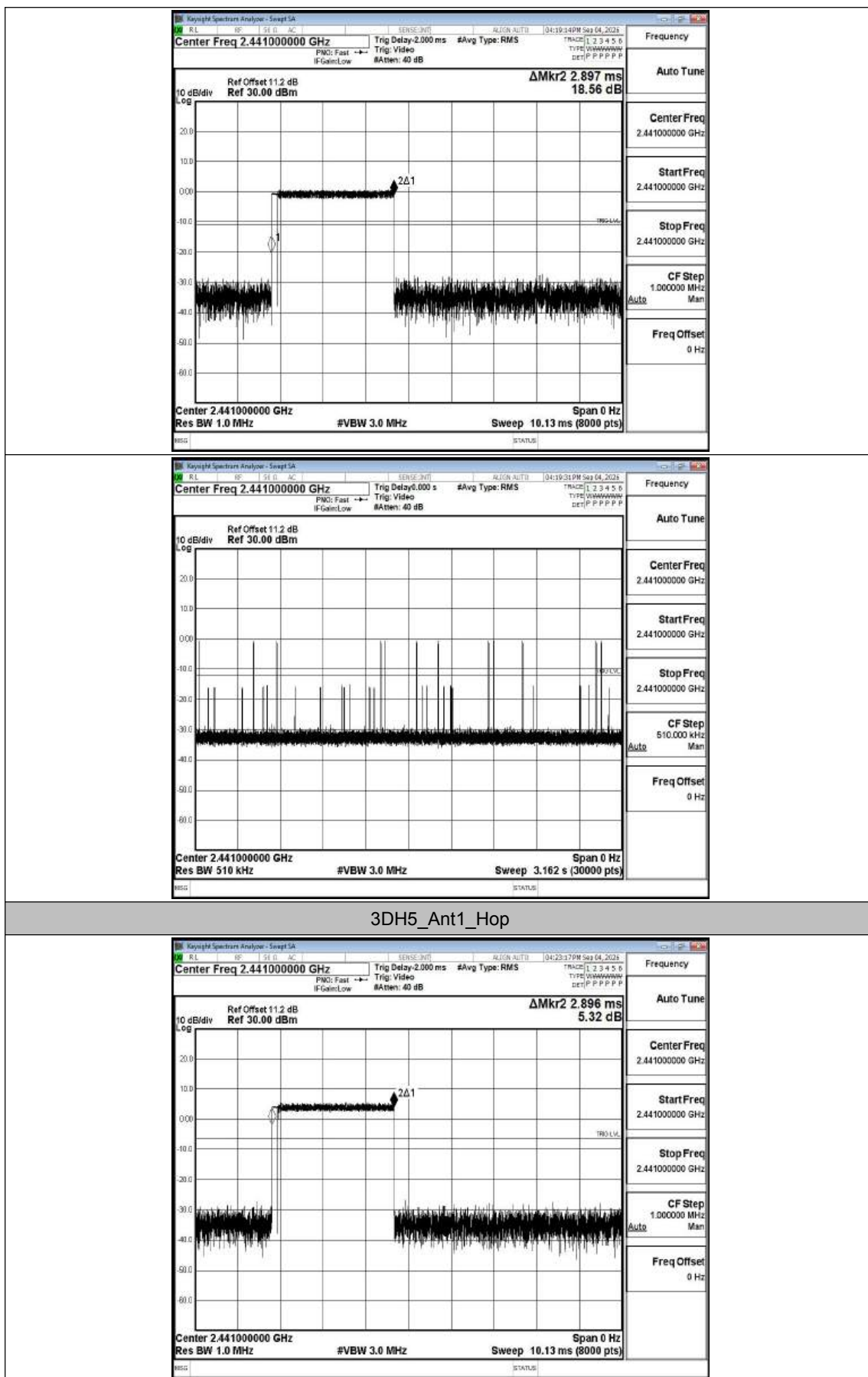
A.4 Time of occupancy

Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	110	0.32	≤0.4	PASS
2DH5	Ant1	Hop	2.897	130	0.377	≤0.4	PASS
3DH5	Ant1	Hop	2.896	130	0.376	≤0.4	PASS

Test Graphs

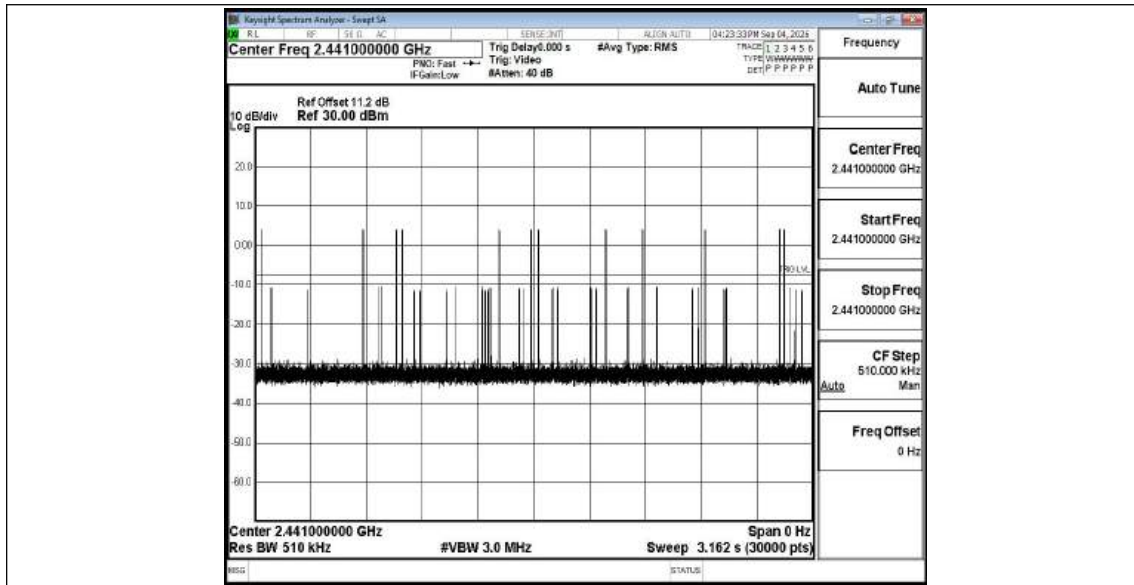




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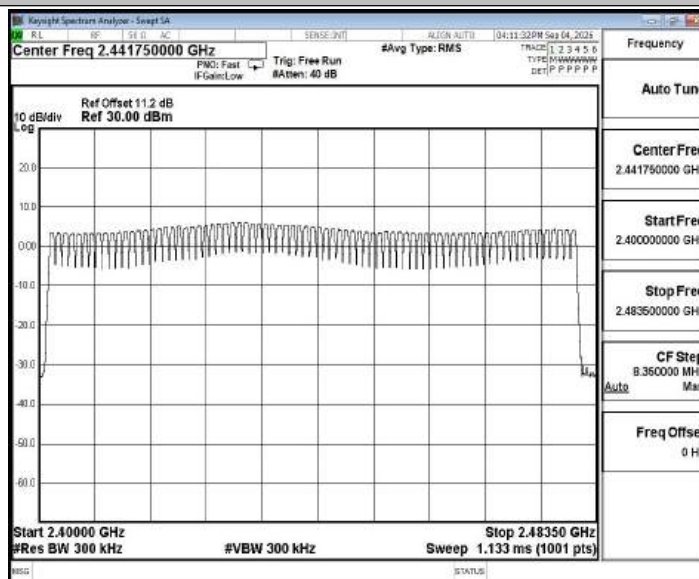
A.5 Number of hopping channels

Test Result

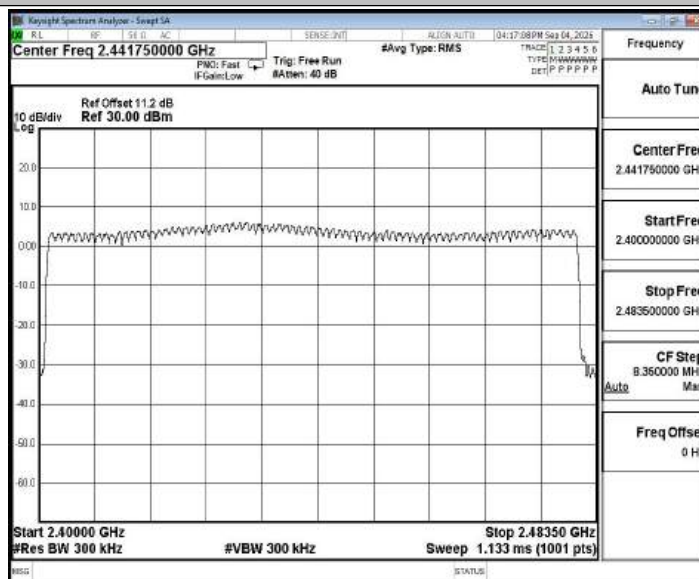
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

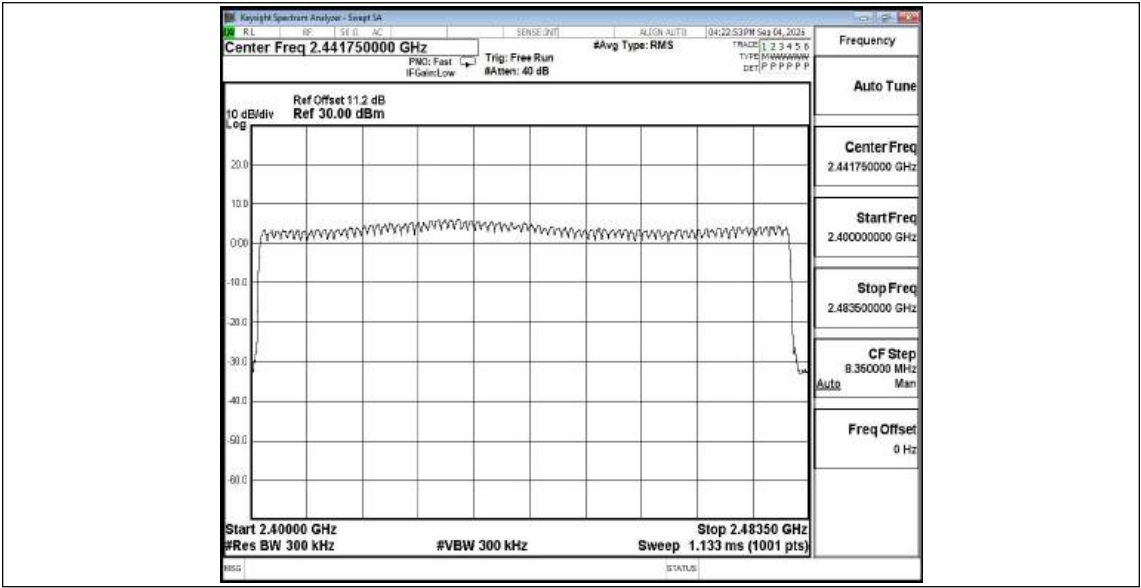
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



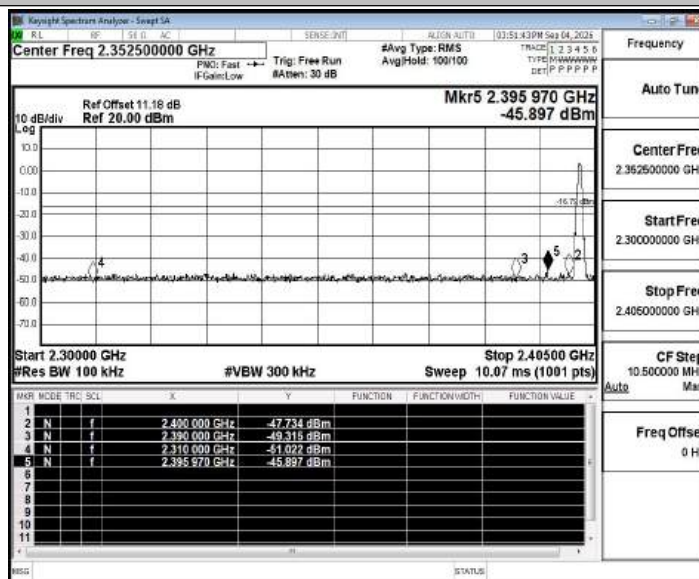
A.6 Band edge measurements

Test Result

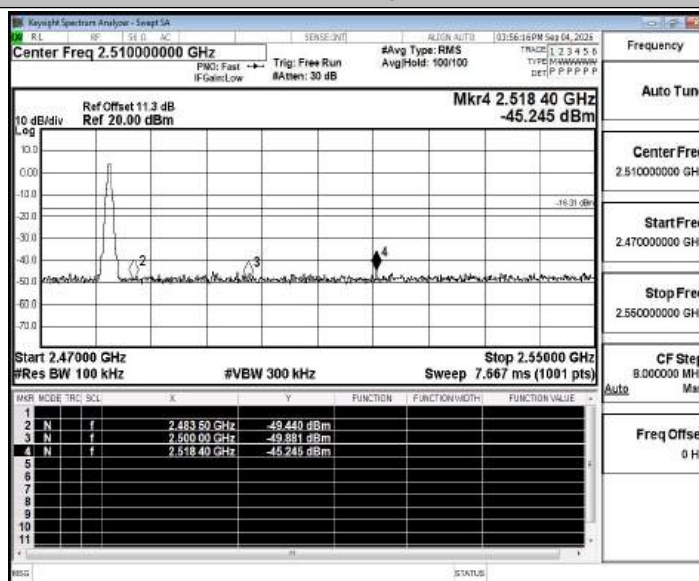
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.21	-45.9	≤ -16.79	PASS
		High	2480	3.69	-45.25	≤ -16.31	PASS
		Low	Hop_2402	2.86	-45.8	≤ -17.14	PASS
		High	Hop_2480	3.89	-44.76	≤ -16.11	PASS
2DH5	Ant1	Low	2402	3.15	-45.93	≤ -16.85	PASS
		High	2480	3.31	-45.25	≤ -16.69	PASS
		Low	Hop_2402	0.22	-45.52	≤ -19.78	PASS
		High	Hop_2480	1.01	-45.22	≤ -18.99	PASS
3DH5	Ant1	Low	2402	2.40	-44.38	≤ -17.6	PASS
		High	2480	3.47	-44.69	≤ -16.53	PASS
		Low	Hop_2402	0.41	-45.4	≤ -19.59	PASS
		High	Hop_2480	0.70	-45.03	≤ -19.3	PASS

Test Graphs

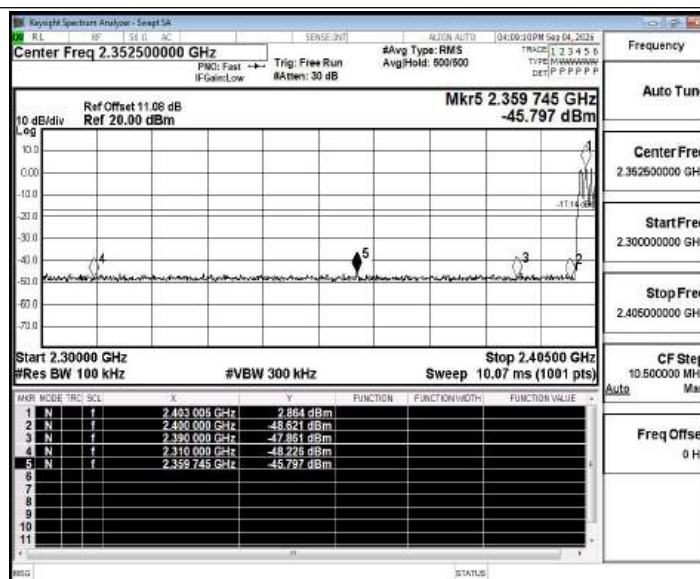
DH5_Ant1_Low_2402



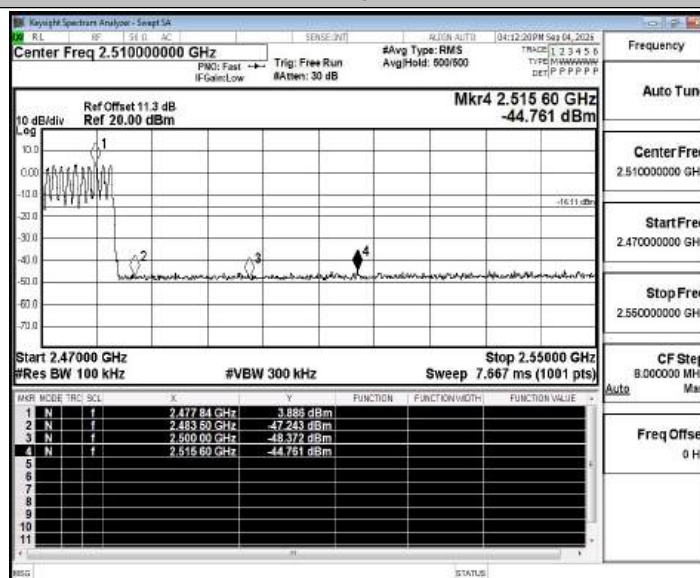
DH5_Ant1_High_2480



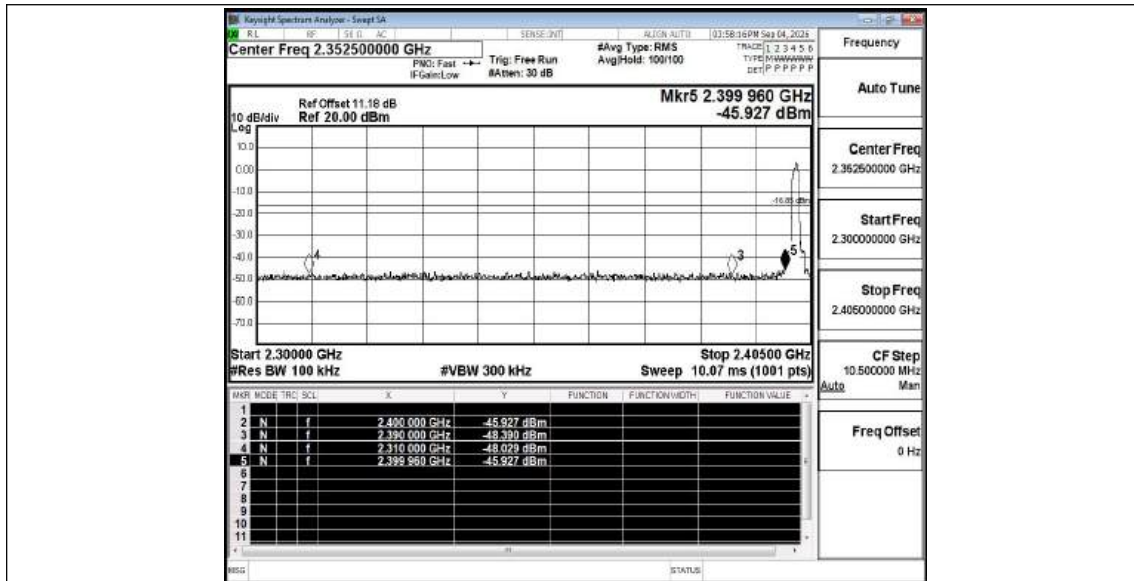
DH5_Ant1_Low_Hop_2402



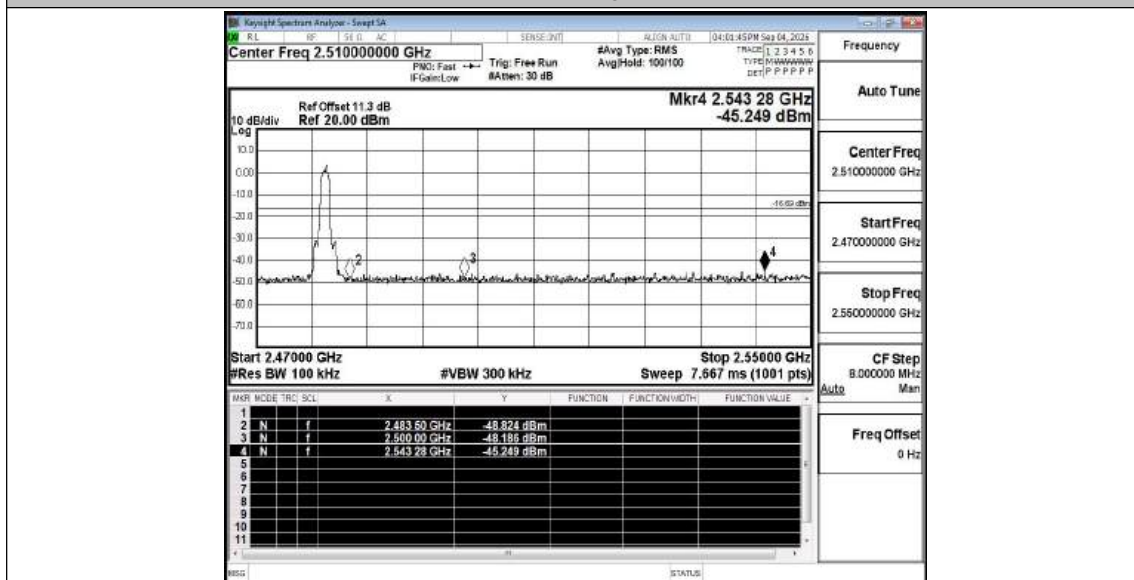
DH5_Ant1_High_Hop_2480



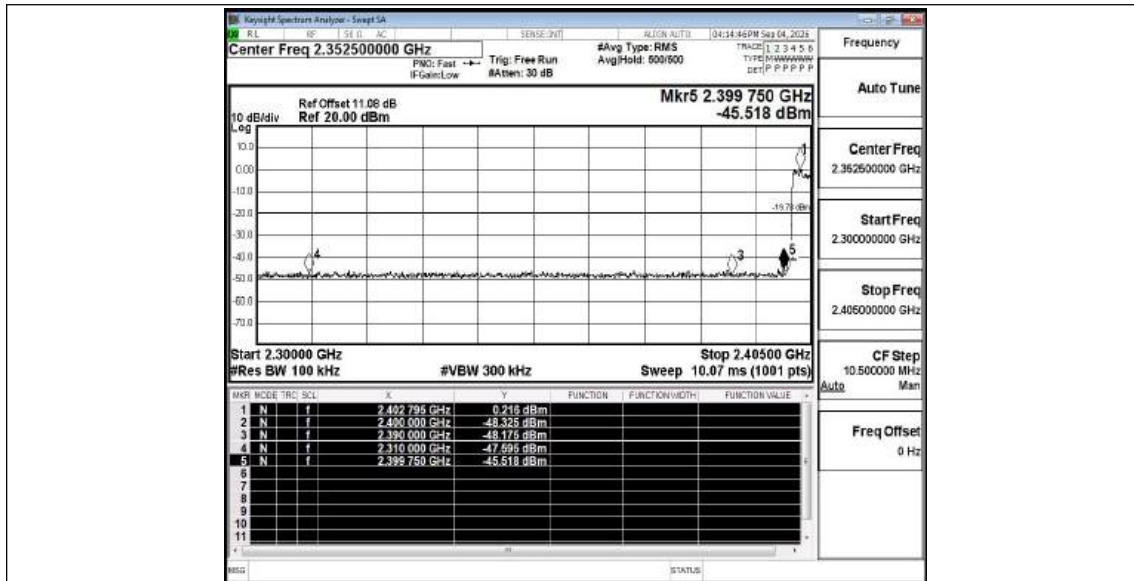
2DH5_Ant1_Low_2402



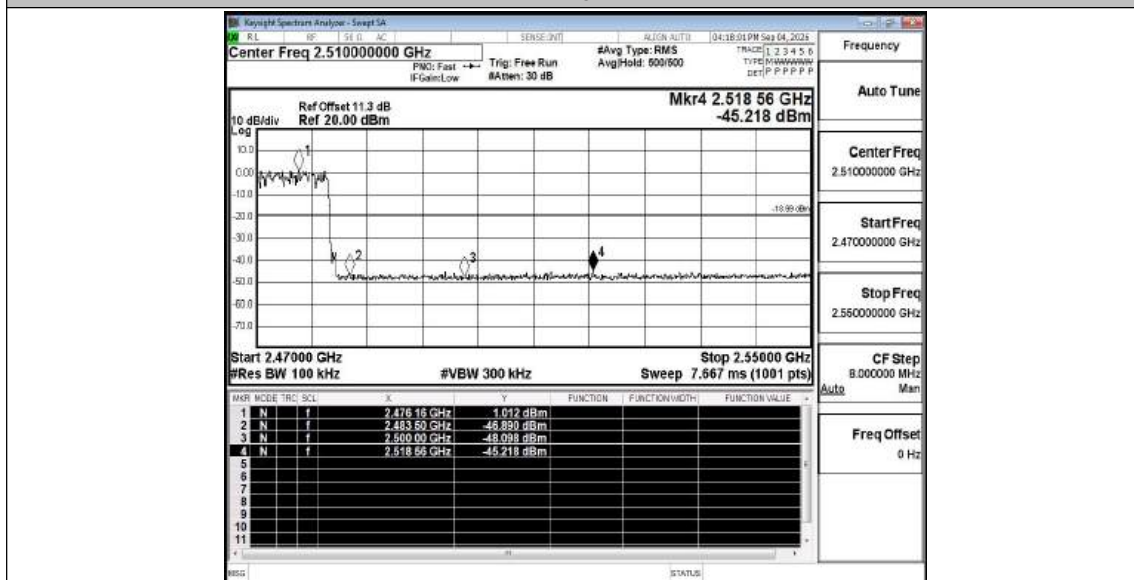
2DH5_Ant1_High_2480



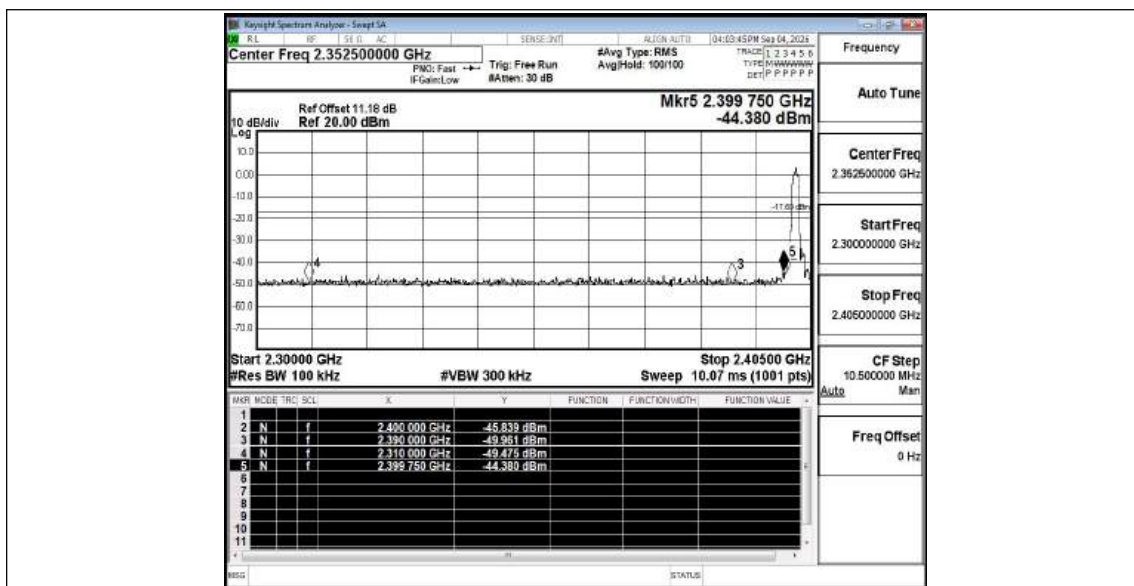
2DH5_Ant1_Low_Hop_2402



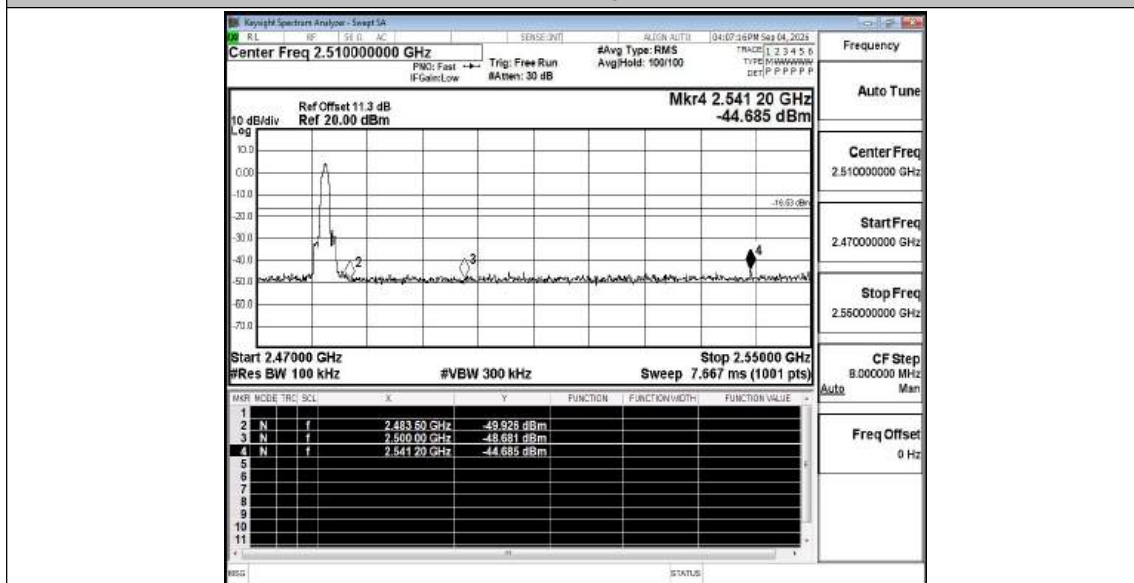
2DH5_Ant1_High_Hop_2480



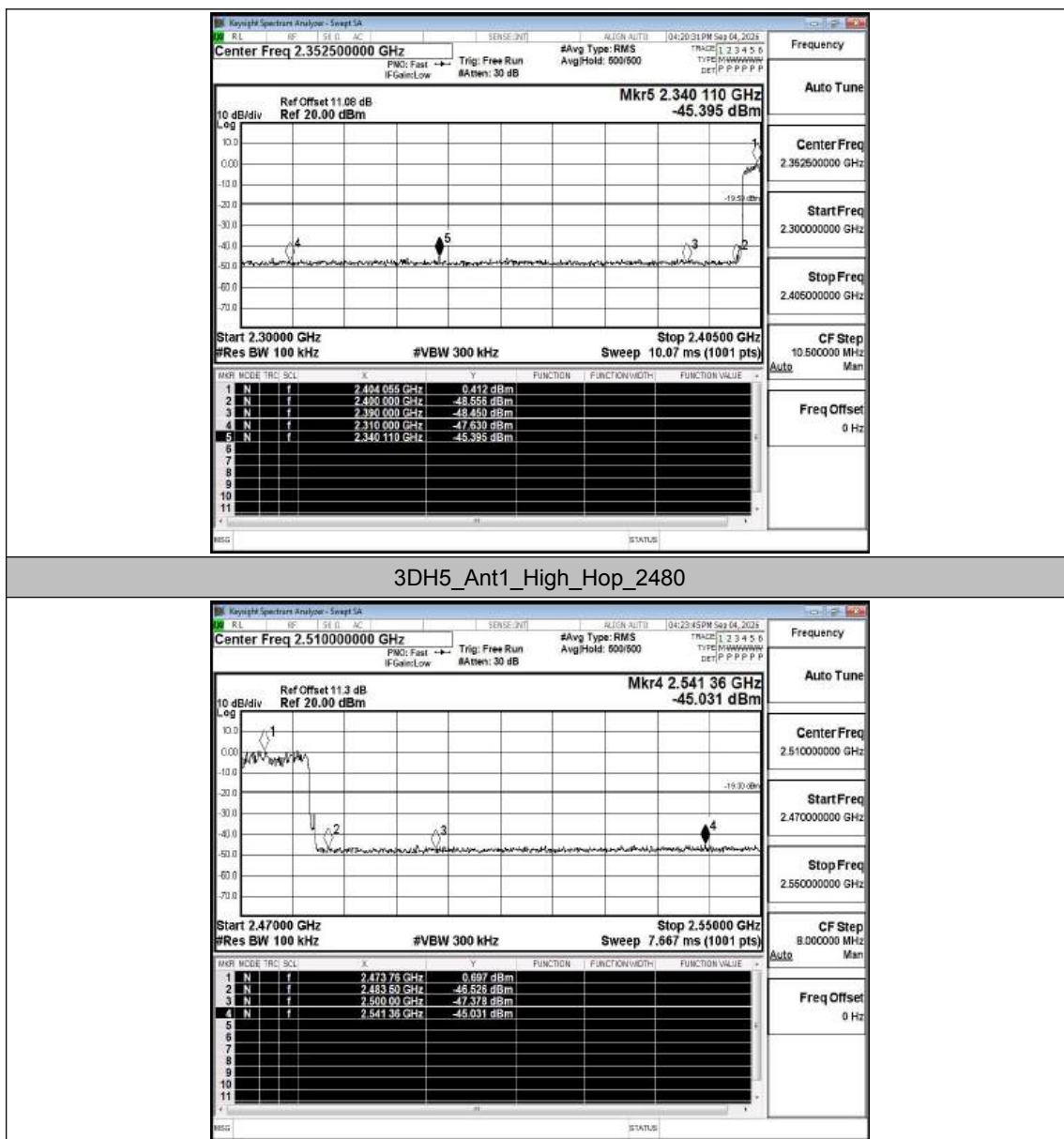
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



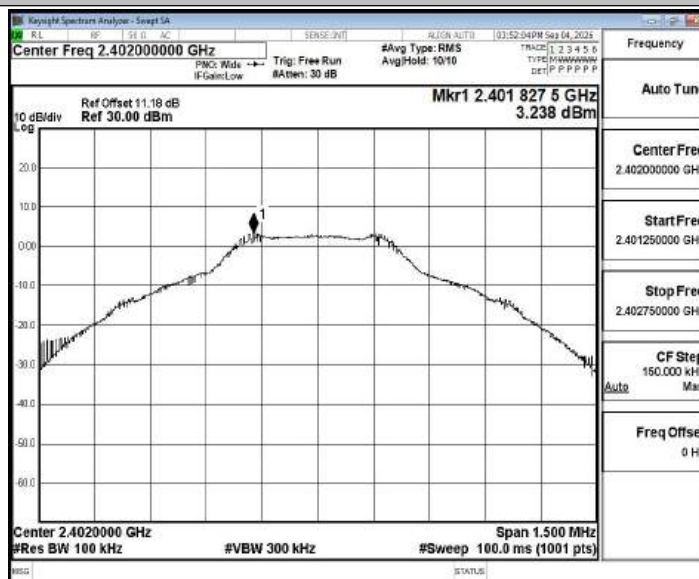
A.7 Conducted Spurious Emission

Test Result

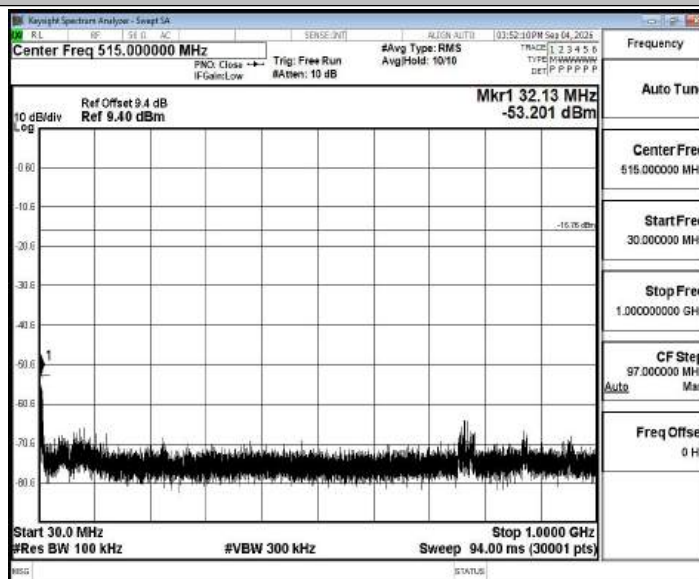
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.24	3.24	---	PASS
			30~1000	3.24	-53.2	≤-16.76	PASS
			1000~26500	3.24	-44.38	≤-16.76	PASS
		2441	Reference	4.65	4.65	---	PASS
			30~1000	4.65	-57.25	≤-15.35	PASS
			1000~26500	4.65	-44.77	≤-15.35	PASS
		2480	Reference	4.03	4.03	---	PASS
			30~1000	4.03	-53.78	≤-15.97	PASS
			1000~26500	4.03	-43.52	≤-15.97	PASS
2DH5	Ant1	2402	Reference	3.18	3.18	---	PASS
			30~1000	3.18	-53.58	≤-16.82	PASS
			1000~26500	3.18	-44.54	≤-16.82	PASS
		2441	Reference	4.52	4.52	---	PASS
			30~1000	4.52	-58	≤-15.48	PASS
			1000~26500	4.52	-44.11	≤-15.48	PASS
		2480	Reference	3.87	3.87	---	PASS
			30~1000	3.87	-58.8	≤-16.13	PASS
			1000~26500	3.87	-44.78	≤-16.13	PASS
3DH5	Ant1	2402	Reference	3.32	3.32	---	PASS
			30~1000	3.32	-55.17	≤-16.68	PASS
			1000~26500	3.32	-43.59	≤-16.68	PASS
		2441	Reference	4.74	4.74	---	PASS
			30~1000	4.74	-53.36	≤-15.26	PASS
			1000~26500	4.74	-44.59	≤-15.26	PASS
		2480	Reference	4.07	4.07	---	PASS
			30~1000	4.07	-38.72	≤-15.93	PASS
			1000~26500	4.07	-44.9	≤-15.93	PASS

Test Graphs

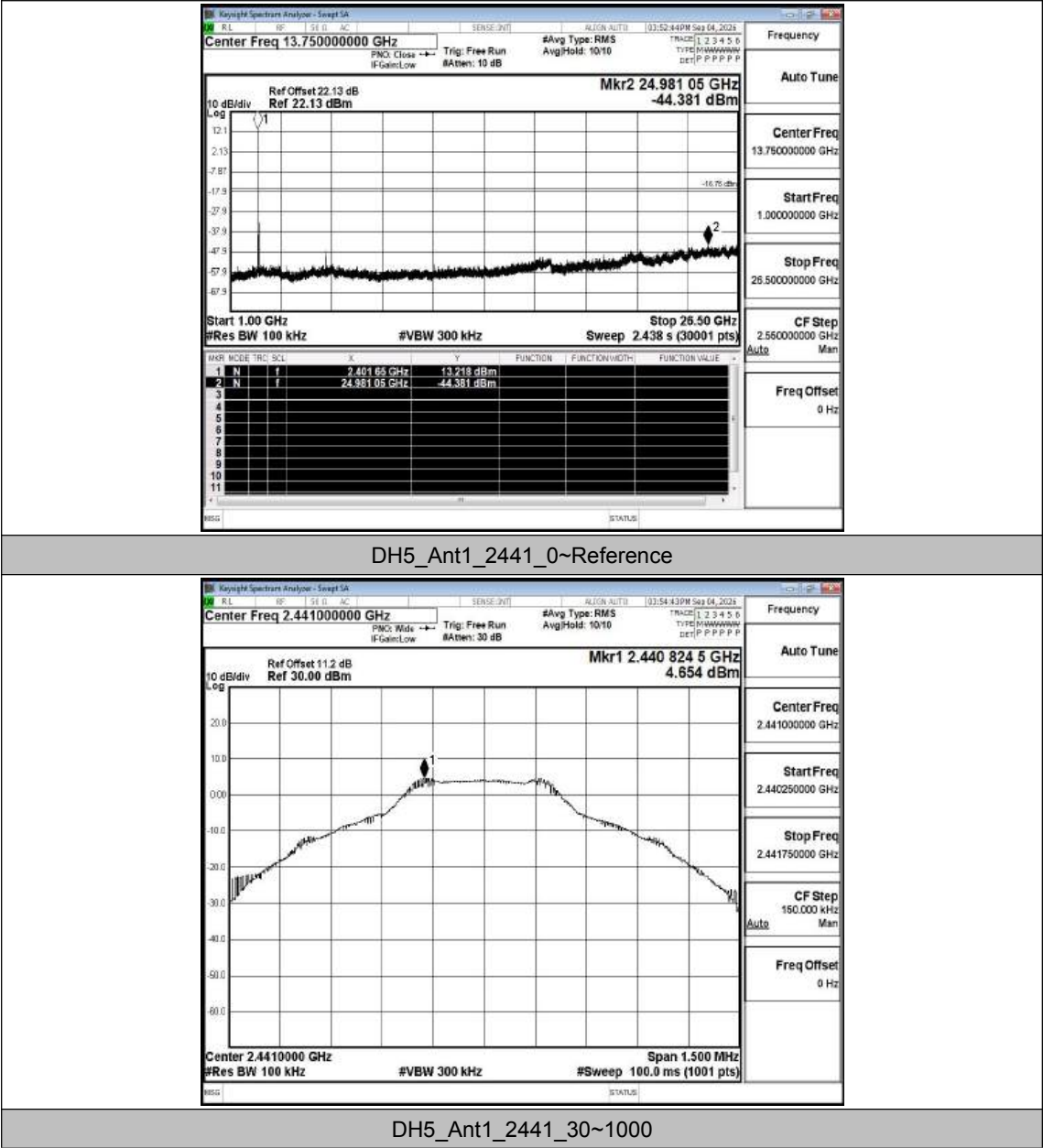
DH5_Ant1_2402_0~Reference

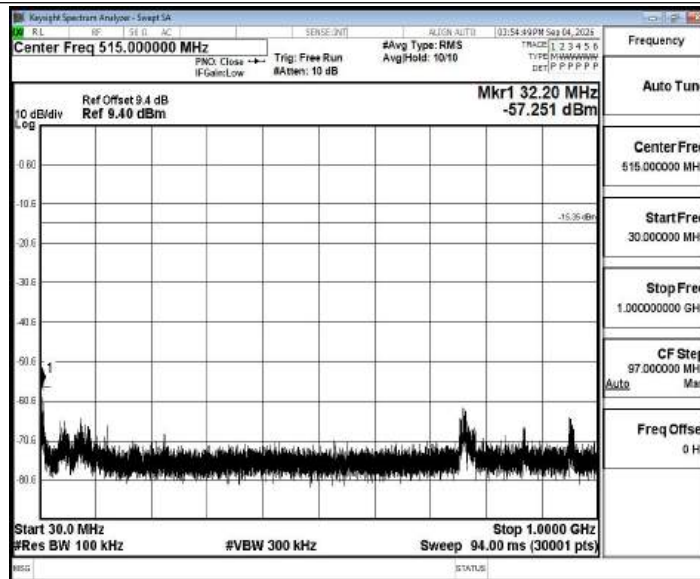


DH5_Ant1_2402_30~1000

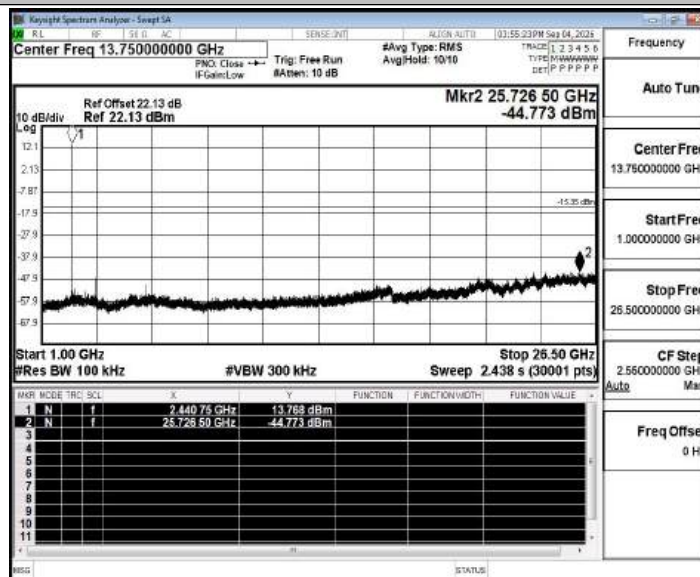


DH5_Ant1_2402_1000~26500

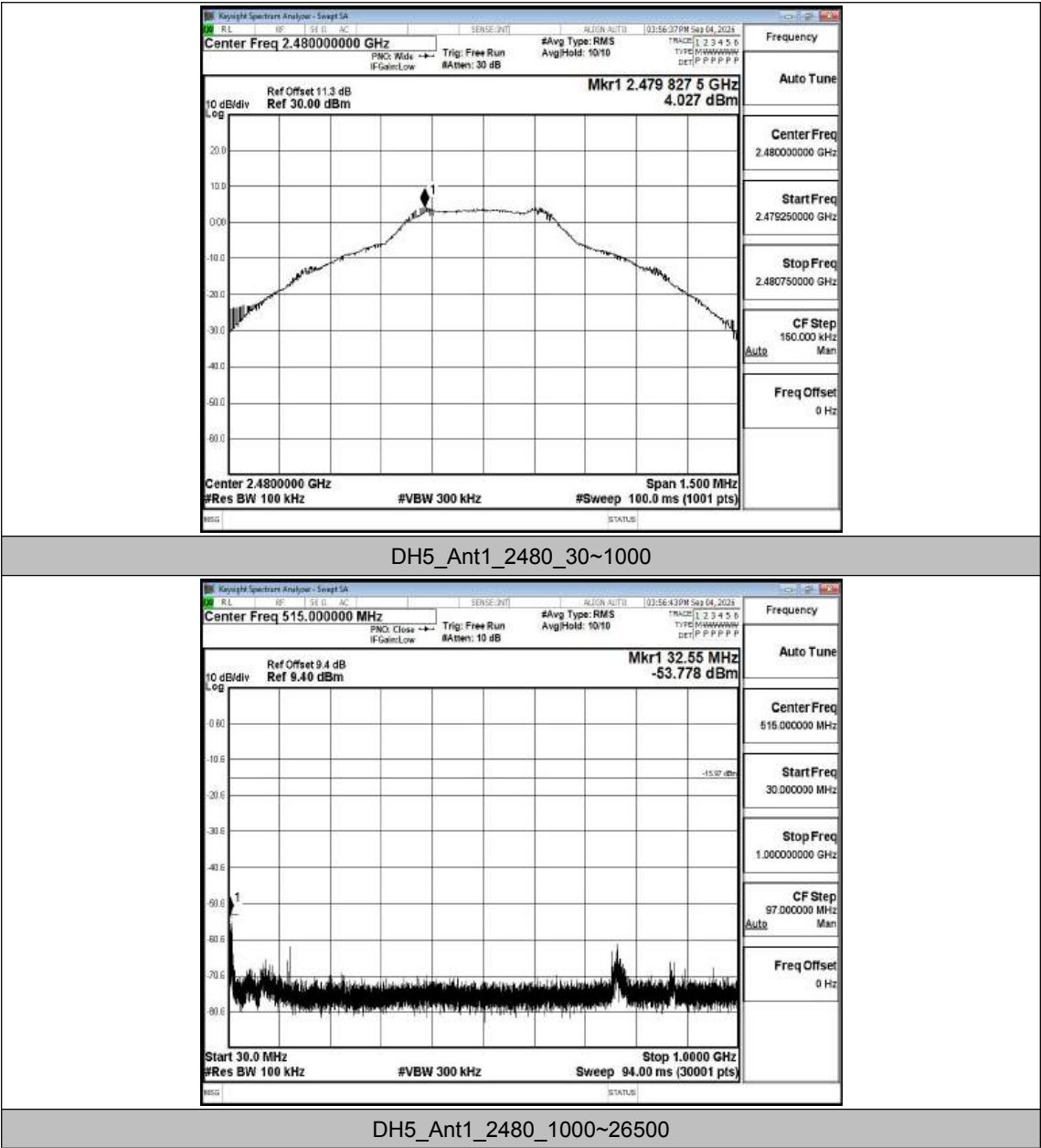


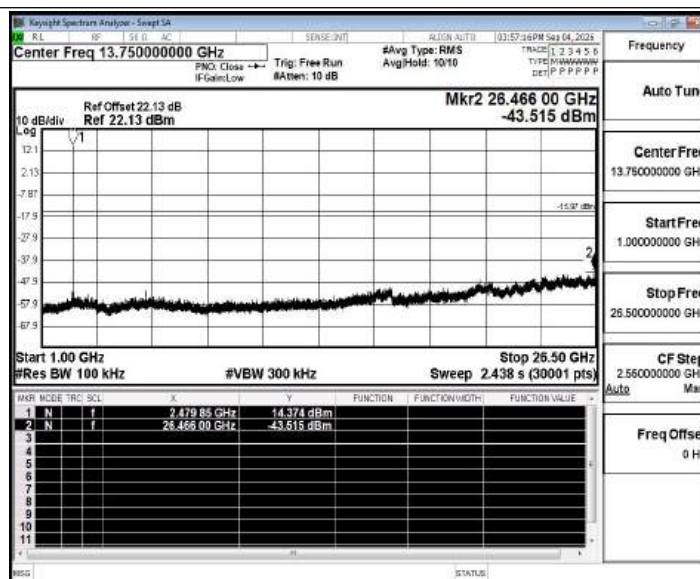


DH5_Ant1_2441_1000~26500

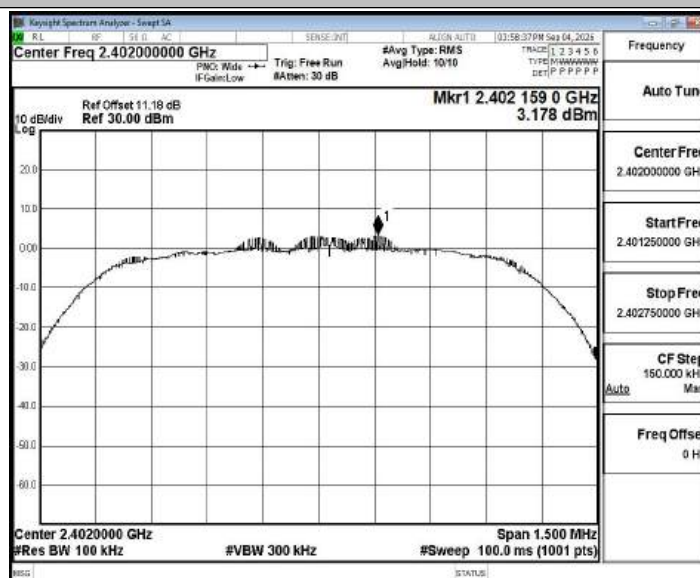


DH5_Ant1_2480_0~Reference

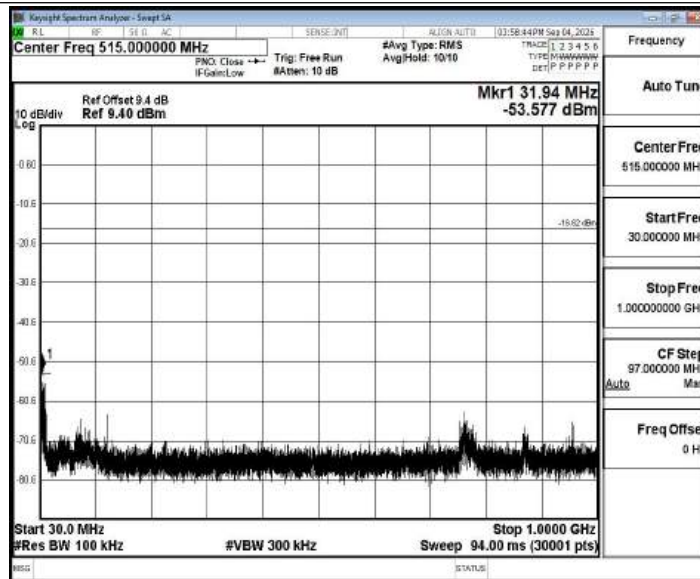




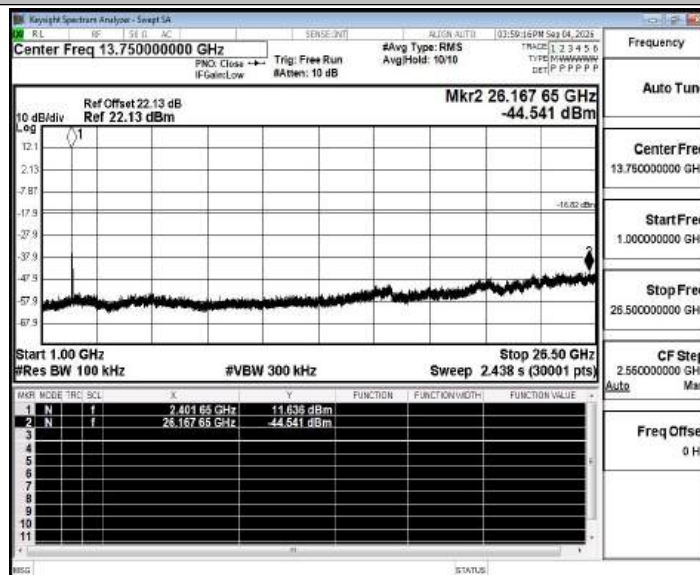
2DH5_Ant1_2402_0~Reference



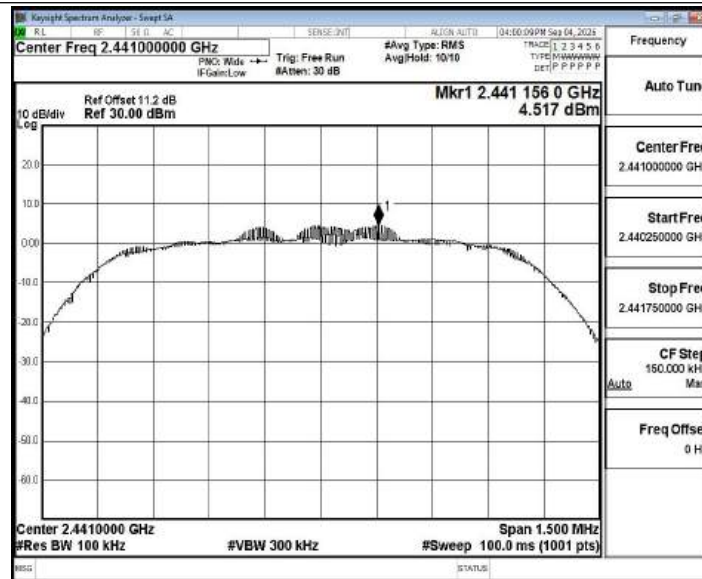
2DH5_Ant1_2402_30~1000



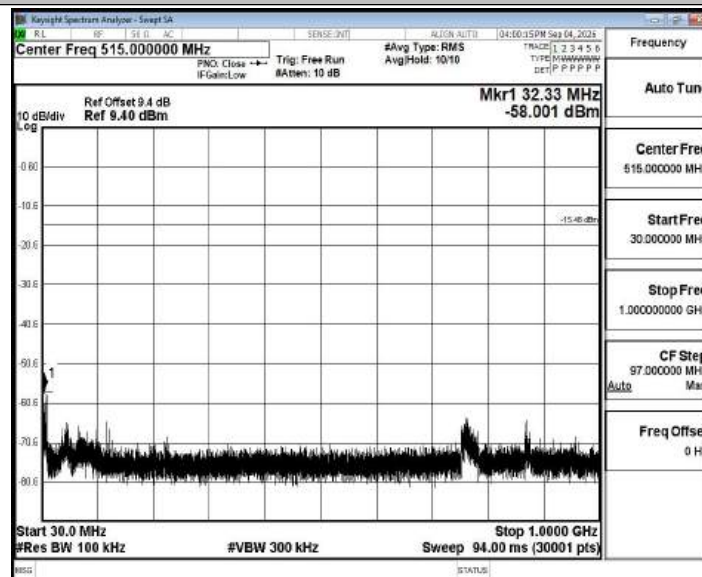
2DH5_Ant1_2402_1000~26500



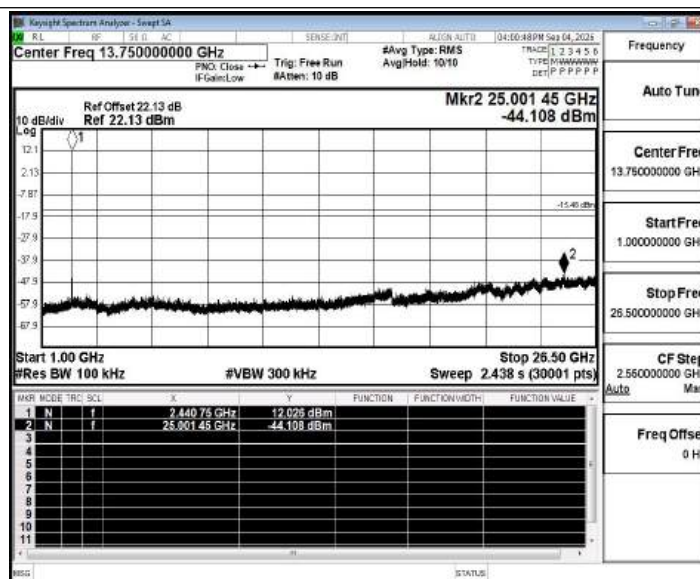
2DH5_Ant1_2441_0~Reference



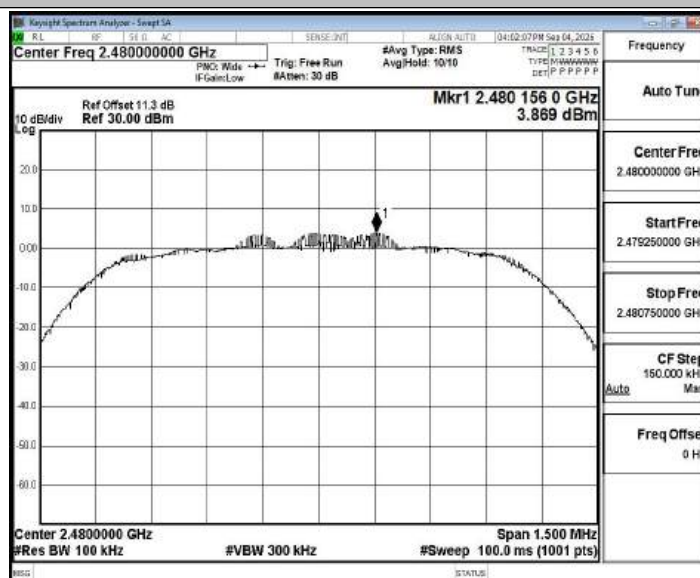
2DH5_Ant1_2441_30~1000



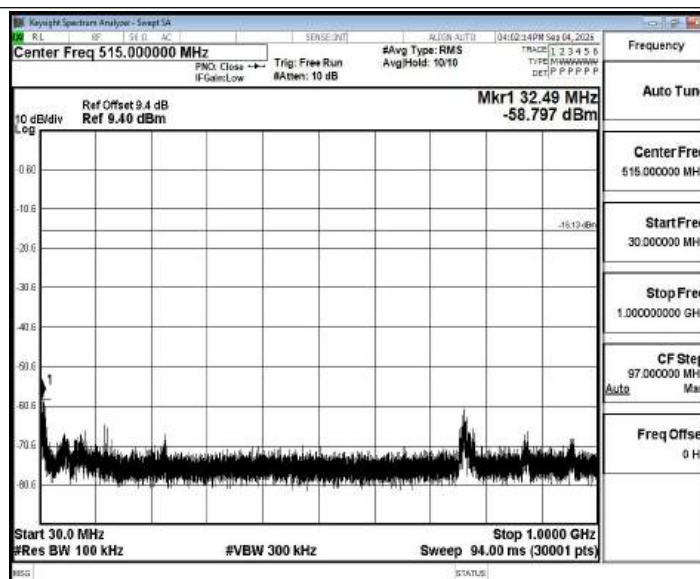
2DH5_Ant1_2441_1000~26500



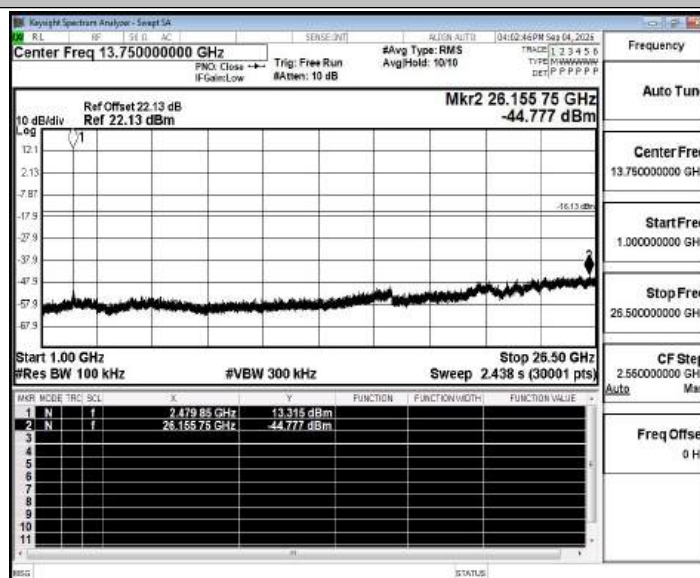
2DH5_Ant1_2480_0~Reference



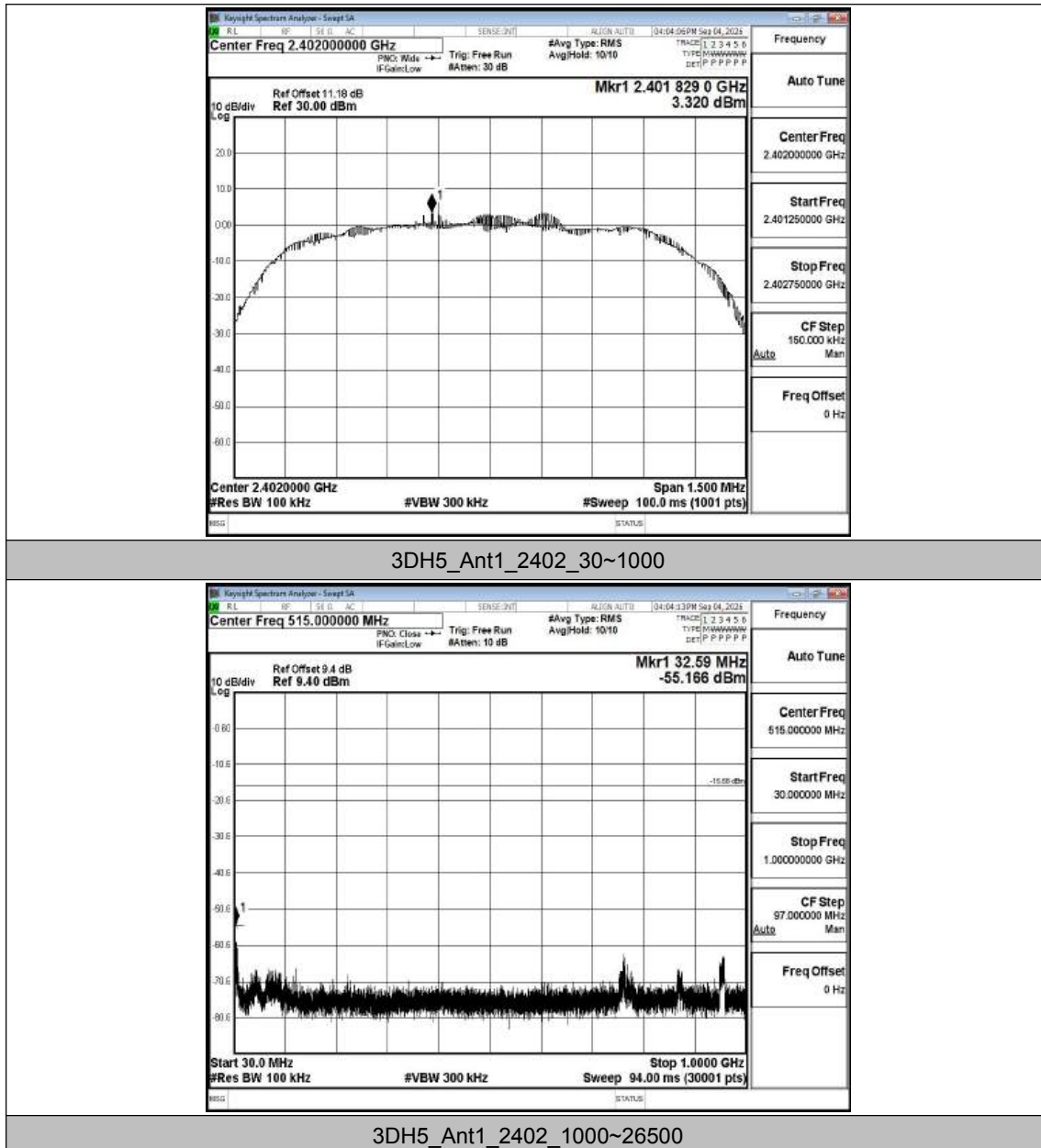
2DH5_Ant1_2480_30~1000

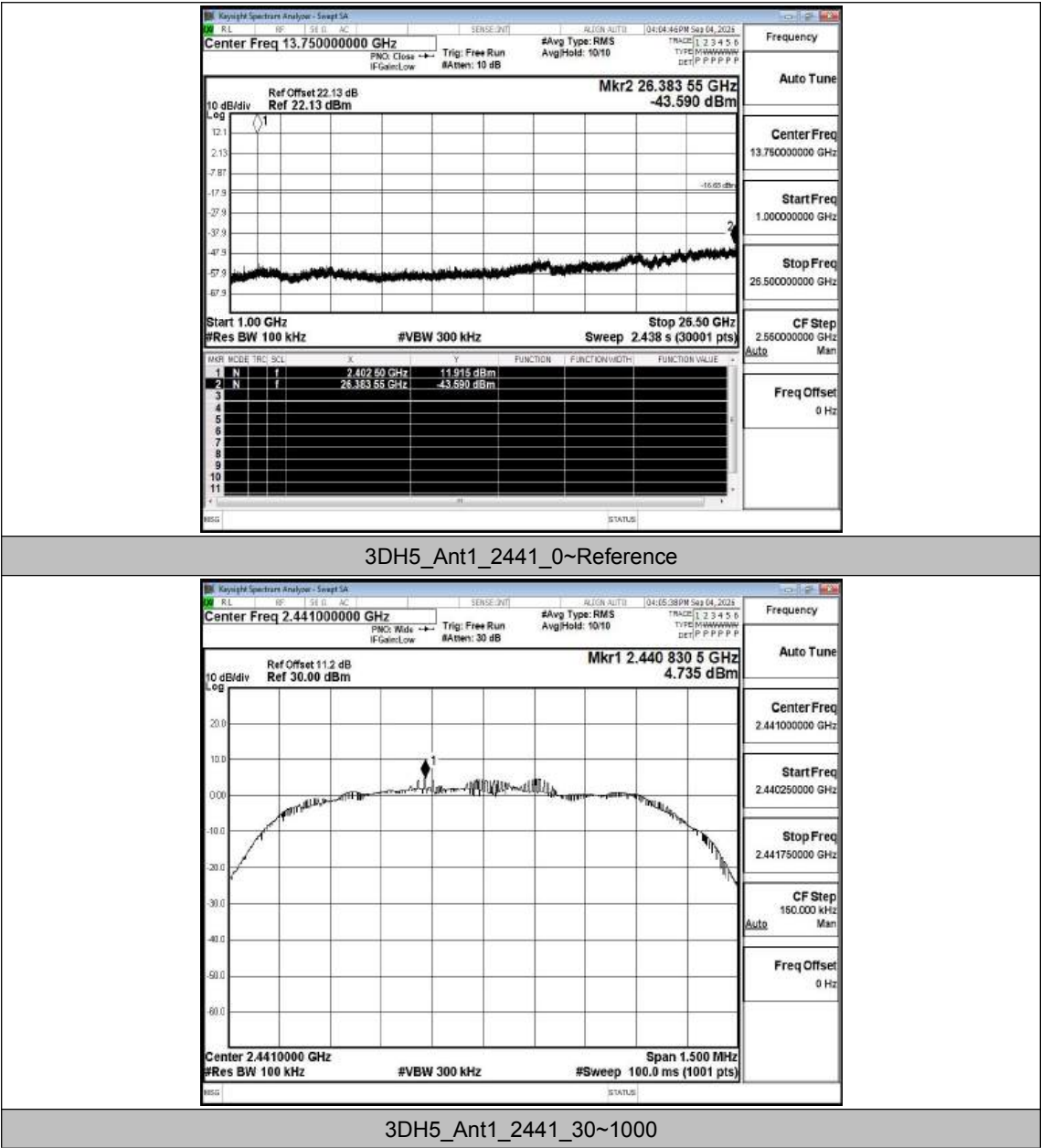


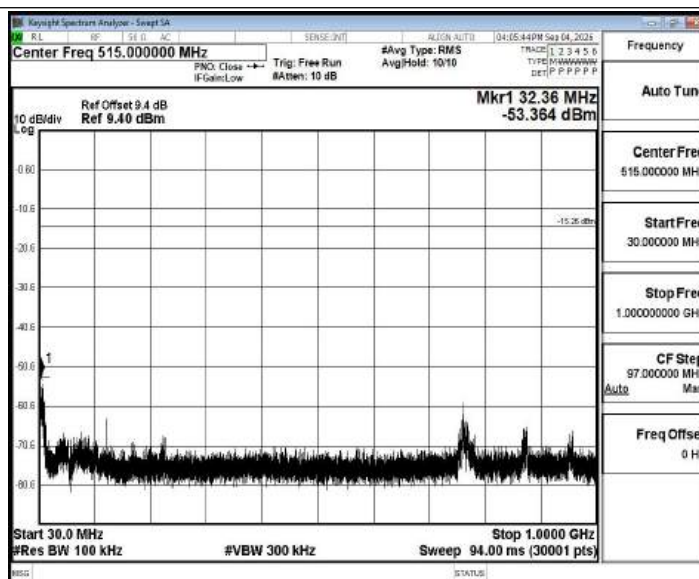
2DH5_Ant1_2480_1000~26500



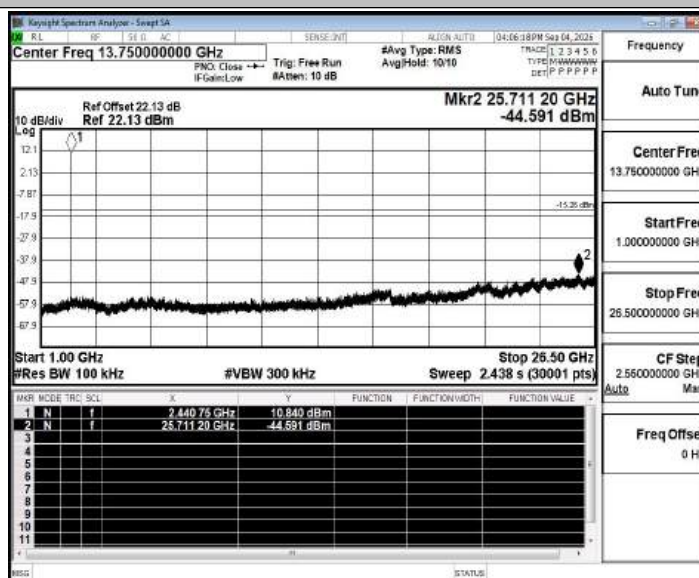
3DH5_Ant1_2402_0~Reference



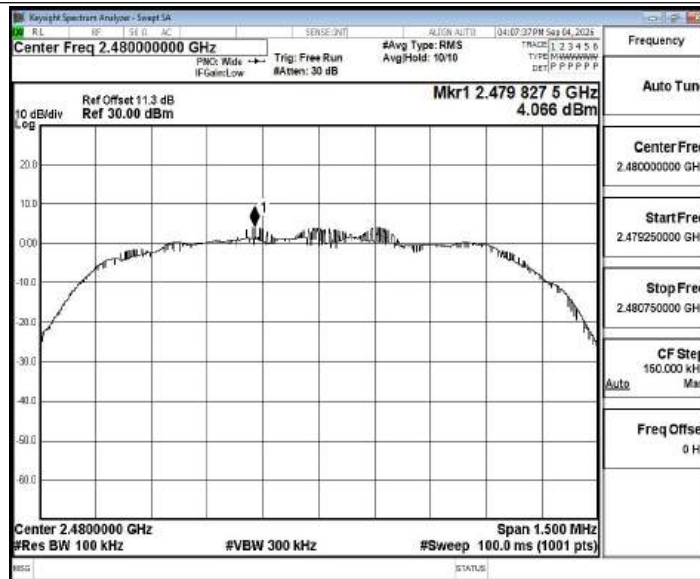




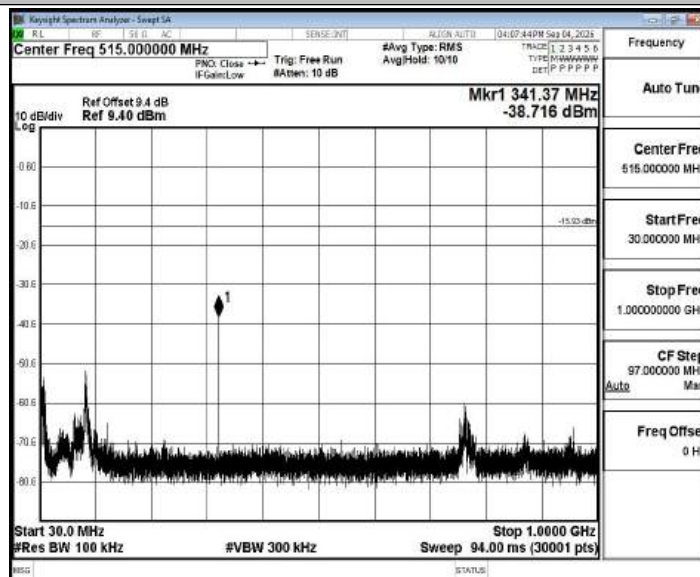
3DH5_Ant1_2441_1000~26500



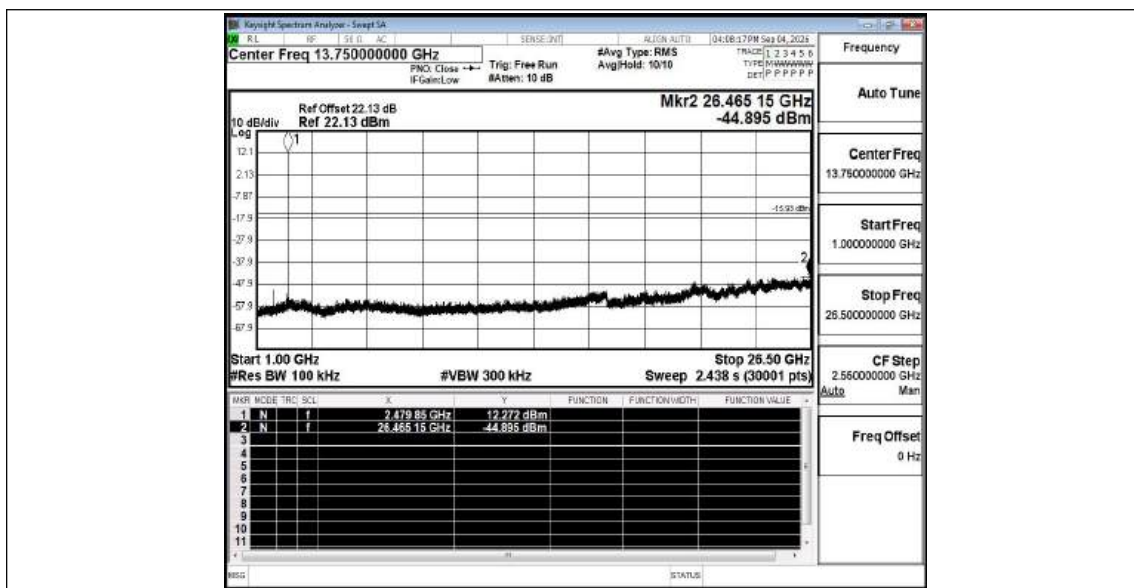
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



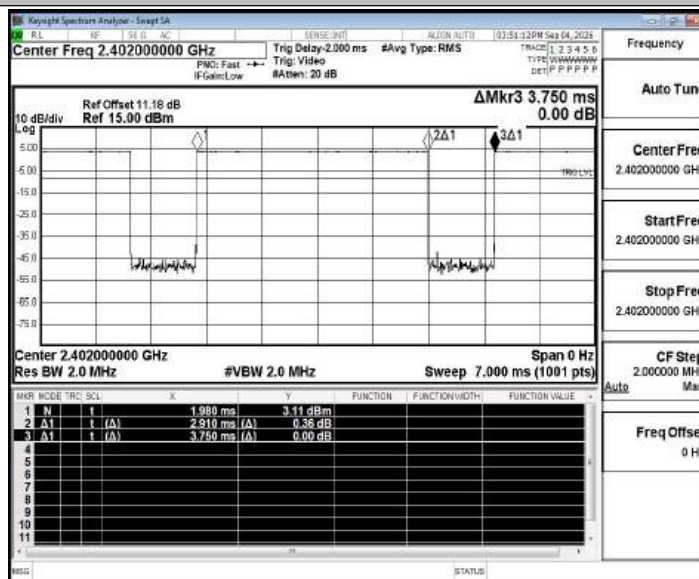
A.8 Duty Cycle

Test Result

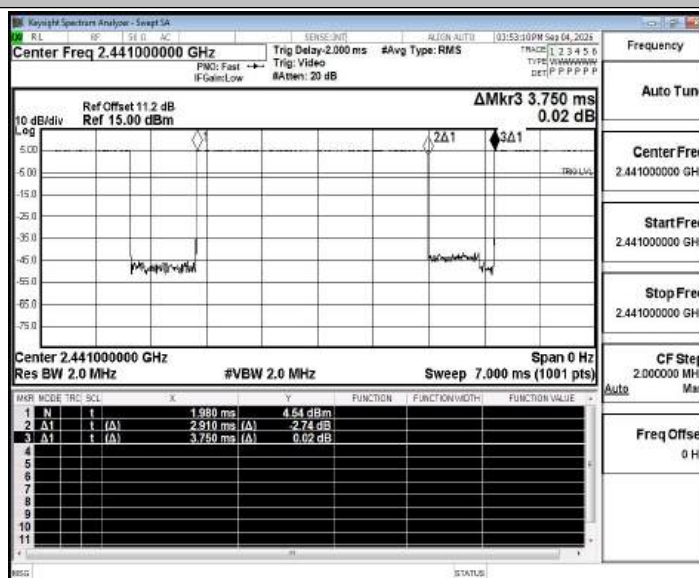
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.91	3.75	77.60	1.10	---	---
		2441	2.91	3.75	77.60	1.10	---	---
		2480	2.91	3.75	77.60	1.10	---	---
2DH5	Ant1	2402	2.90	3.75	77.33	1.12	---	---
		2441	2.90	3.75	77.33	1.12	---	---
		2480	2.89	3.74	77.27	1.12	---	---
3DH5	Ant1	2402	2.90	3.76	77.13	1.13	---	---
		2441	2.90	3.76	77.13	1.13	---	---
		2480	2.89	3.74	77.27	1.12	---	---

Test Graphs

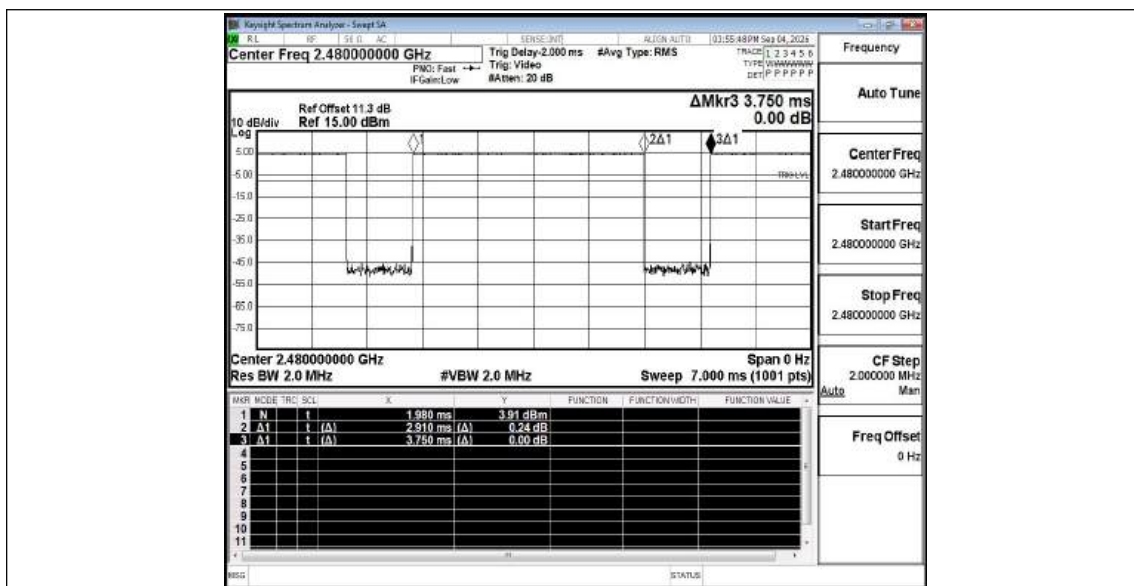
DH5_Ant1_2402



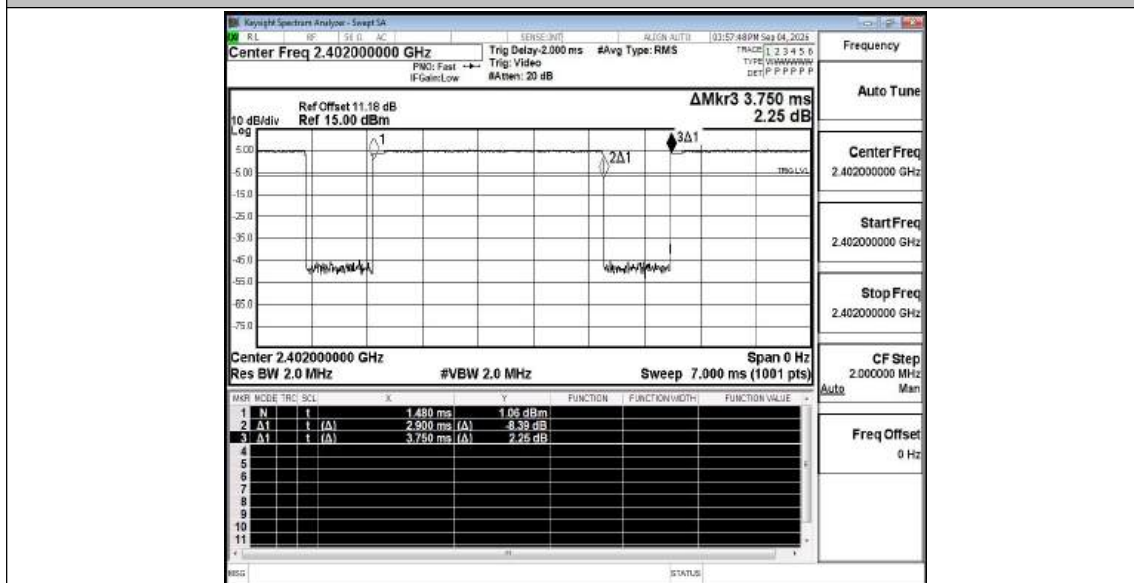
DH5_Ant1_2441



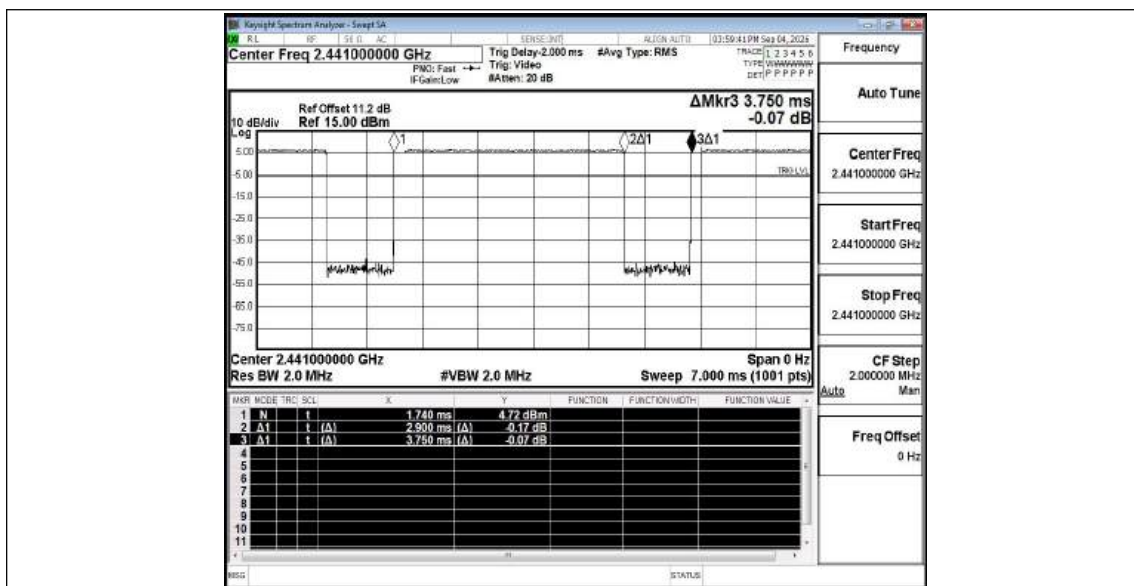
DH5_Ant1_2480



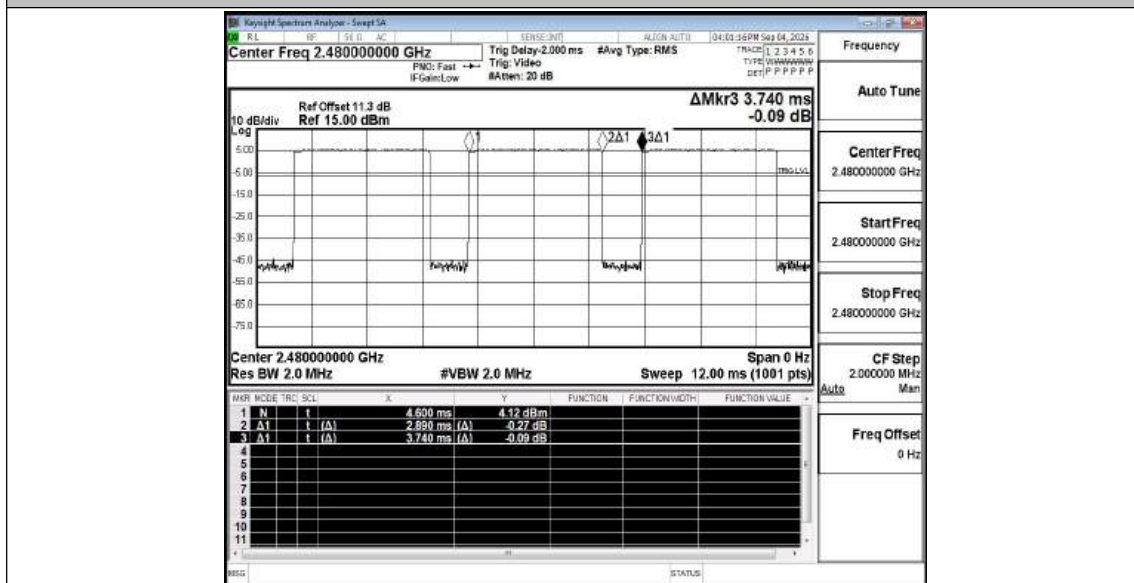
2DH5_Ant1_2402



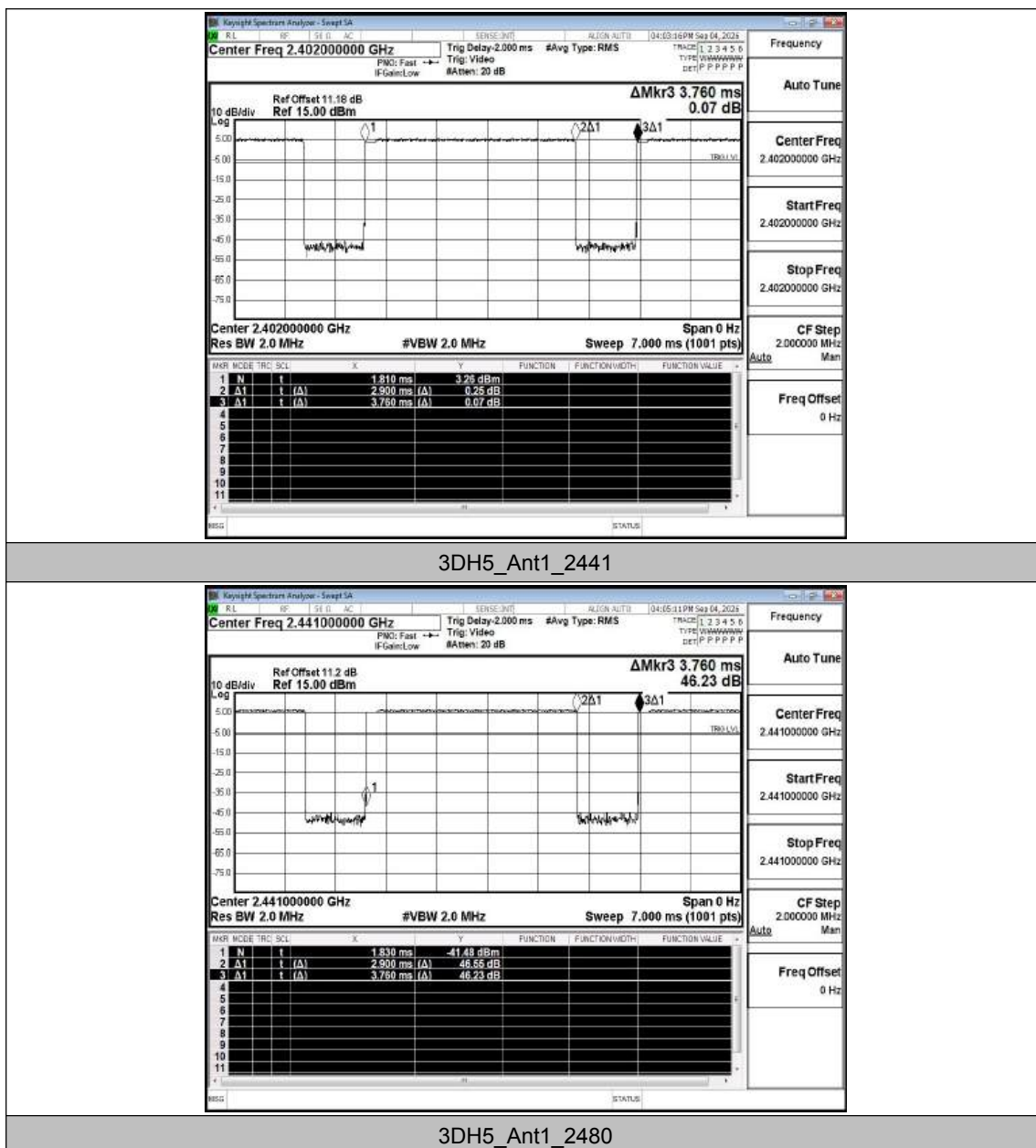
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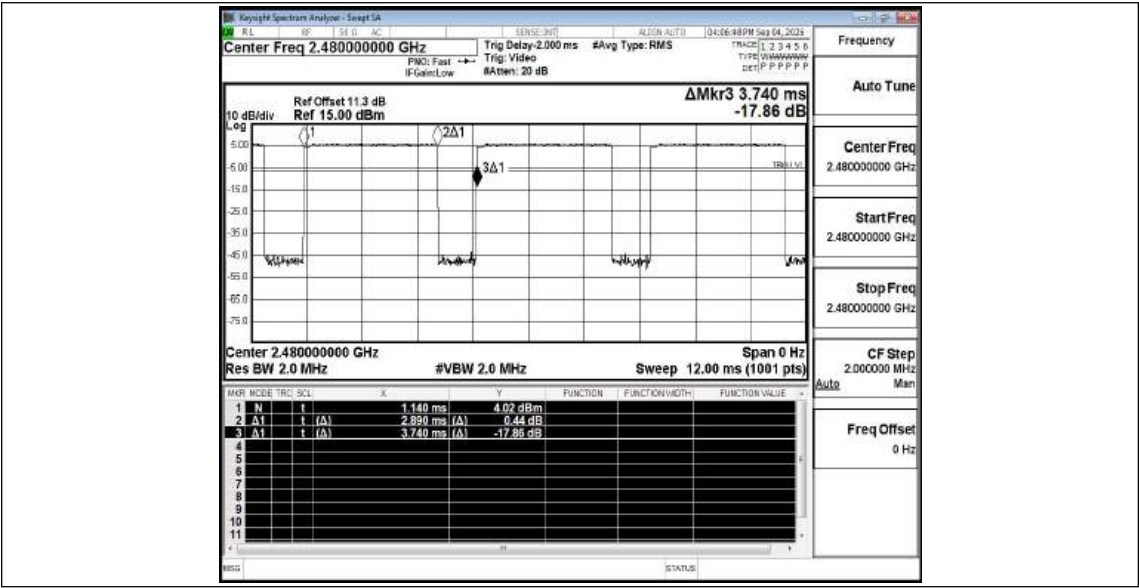


2DH5_Ant1_2480



3DH5_Ant1_2402





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	-61.72	≤-45.01	2.71	1.10	37.29	≤54	PASS
				AV	2381.165	-60.87	≤-45.01	2.71	1.10	38.14	≤54	PASS
				AV	2390.000	-61.37	≤-45.01	2.71	1.10	37.64	≤54	PASS
				Peak	2310.000	-53.12	≤-23.91	2.71	0.00	44.79	≤74	PASS
				Peak	2350.505	-51.06	≤-23.91	2.71	0.00	46.85	≤74	PASS
				Peak	2390.000	-53.02	≤-23.91	2.71	0.00	44.89	≤74	PASS
		High	2480	AV	2483.500	-59.21	≤-45.01	2.71	1.10	39.80	≤54	PASS
				AV	2483.520	-59.21	≤-45.01	2.71	1.10	39.80	≤54	PASS
				AV	2500.000	-60.96	≤-45.01	2.71	1.10	38.05	≤54	PASS
				Peak	2483.500	-51.78	≤-23.91	2.71	0.00	46.13	≤74	PASS
				Peak	2484.320	-50.06	≤-23.91	2.71	0.00	47.85	≤74	PASS
				Peak	2500.000	-53.68	≤-23.91	2.71	0.00	44.23	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-51.89	≤-23.91	2.71	0.00	46.02	≤74	PASS
				Peak	2358.485	-44.69	≤-23.91	2.71	0.00	53.22	≤74	PASS
				Peak	2390.000	-53.09	≤-23.91	2.71	0.00	44.82	≤74	PASS
		High	Hop_2480	Peak	2483.500	-51.93	≤-23.91	2.71	0.00	45.98	≤74	PASS
				Peak	2484.720	-44.81	≤-23.91	2.71	0.00	53.10	≤74	PASS
				Peak	2500.000	-51.74	≤-23.91	2.71	0.00	46.17	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-61.46	≤-45.03	2.71	1.12	37.57	≤54	PASS
				AV	2384.315	-61.01	≤-45.03	2.71	1.12	38.02	≤54	PASS
				AV	2390.000	-61.72	≤-45.03	2.71	1.12	37.31	≤54	PASS
				Peak	2310.000	-52.51	≤-23.91	2.71	0.00	45.40	≤74	PASS
				Peak	2322.995	-50.77	≤-23.91	2.71	0.00	47.14	≤74	PASS
				Peak	2390.000	-53.42	≤-23.91	2.71	0.00	44.49	≤74	PASS
		High	2480	AV	2483.500	-56.08	≤-45.03	2.71	1.12	42.95	≤54	PASS
				AV	2483.520	-56.07	≤-45.03	2.71	1.12	42.96	≤54	PASS
				AV	2500.000	-61.37	≤-45.03	2.71	1.12	37.66	≤54	PASS
				Peak	2483.500	-43.2	≤-23.91	2.71	0.00	54.71	≤74	PASS
				Peak	2483.520	-43.2	≤-23.91	2.71	0.00	54.71	≤74	PASS
				Peak	2500.000	-53.94	≤-23.91	2.71	0.00	43.97	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-52.29	≤-23.91	2.71	0.00	45.62	≤74	PASS
				Peak	2353.235	-49.75	≤-23.91	2.71	0.00	48.16	≤74	PASS
				Peak	2390.000	-52.82	≤-23.91	2.71	0.00	45.09	≤74	PASS
		High	Hop_2480	Peak	2483.500	-49.86	≤-23.91	2.71	0.00	48.05	≤74	PASS
				Peak	2484.480	-45.62	≤-23.91	2.71	0.00	52.29	≤74	PASS

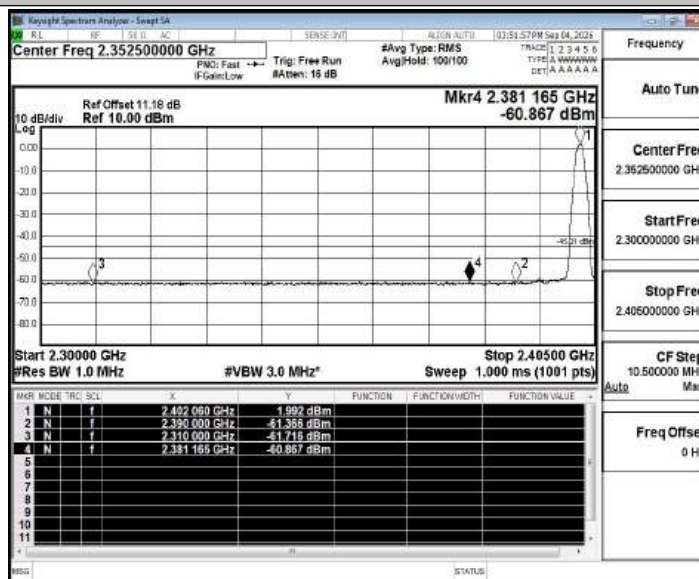
				Peak	2500.000	-52.52	≤-23.91	2.71	0.00	45.39	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-61.72	≤-45.04	2.71	1.13	37.32	≤54	PASS
				AV	2349.035	-60.93	≤-45.04	2.71	1.13	38.11	≤54	PASS
				AV	2390.000	-61.34	≤-45.04	2.71	1.13	37.70	≤54	PASS
				Peak	2310.000	-53.44	≤-23.91	2.71	0.00	44.47	≤74	PASS
				Peak	2379.905	-50.17	≤-23.91	2.71	0.00	47.74	≤74	PASS
				Peak	2390.000	-51.65	≤-23.91	2.71	0.00	46.26	≤74	PASS
		High	2480	AV	2483.500	-55.36	≤-45.03	2.71	1.12	43.67	≤54	PASS
				AV	2483.520	-55.36	≤-45.03	2.71	1.12	43.67	≤54	PASS
				AV	2500.000	-60.99	≤-45.03	2.71	1.12	38.04	≤54	PASS
				Peak	2483.500	-42.16	≤-23.91	2.71	0.00	55.75	≤74	PASS
				Peak	2484.080	-42.1	≤-23.91	2.71	0.00	55.81	≤74	PASS
				Peak	2500.000	-54.16	≤-23.91	2.71	0.00	43.75	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-53.22	≤-23.91	2.71	0.00	44.69	≤74	PASS
				Peak	2346.935	-50.53	≤-23.91	2.71	0.00	47.38	≤74	PASS
				Peak	2390.000	-53.14	≤-23.91	2.71	0.00	44.77	≤74	PASS
		High	Hop_2480	Peak	2483.500	-51.37	≤-23.91	2.71	0.00	46.54	≤74	PASS
				Peak	2483.680	-43.35	≤-23.91	2.71	0.00	54.56	≤74	PASS
				Peak	2500.000	-51.77	≤-23.91	2.71	0.00	46.14	≤74	PASS

Note:

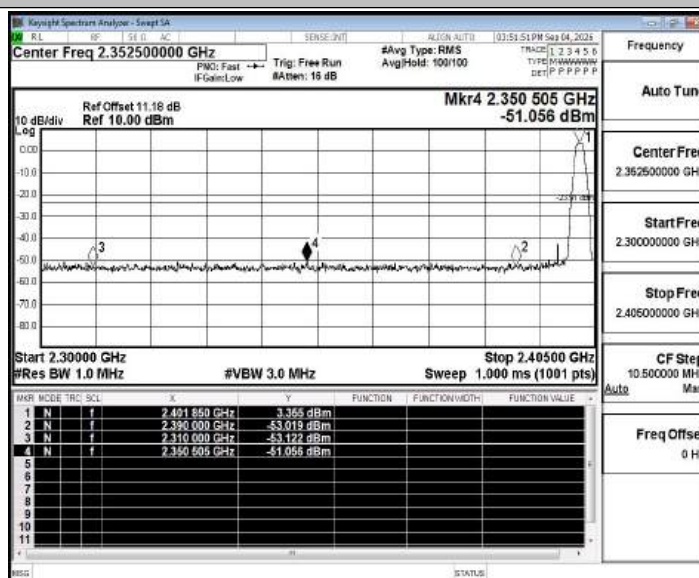
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

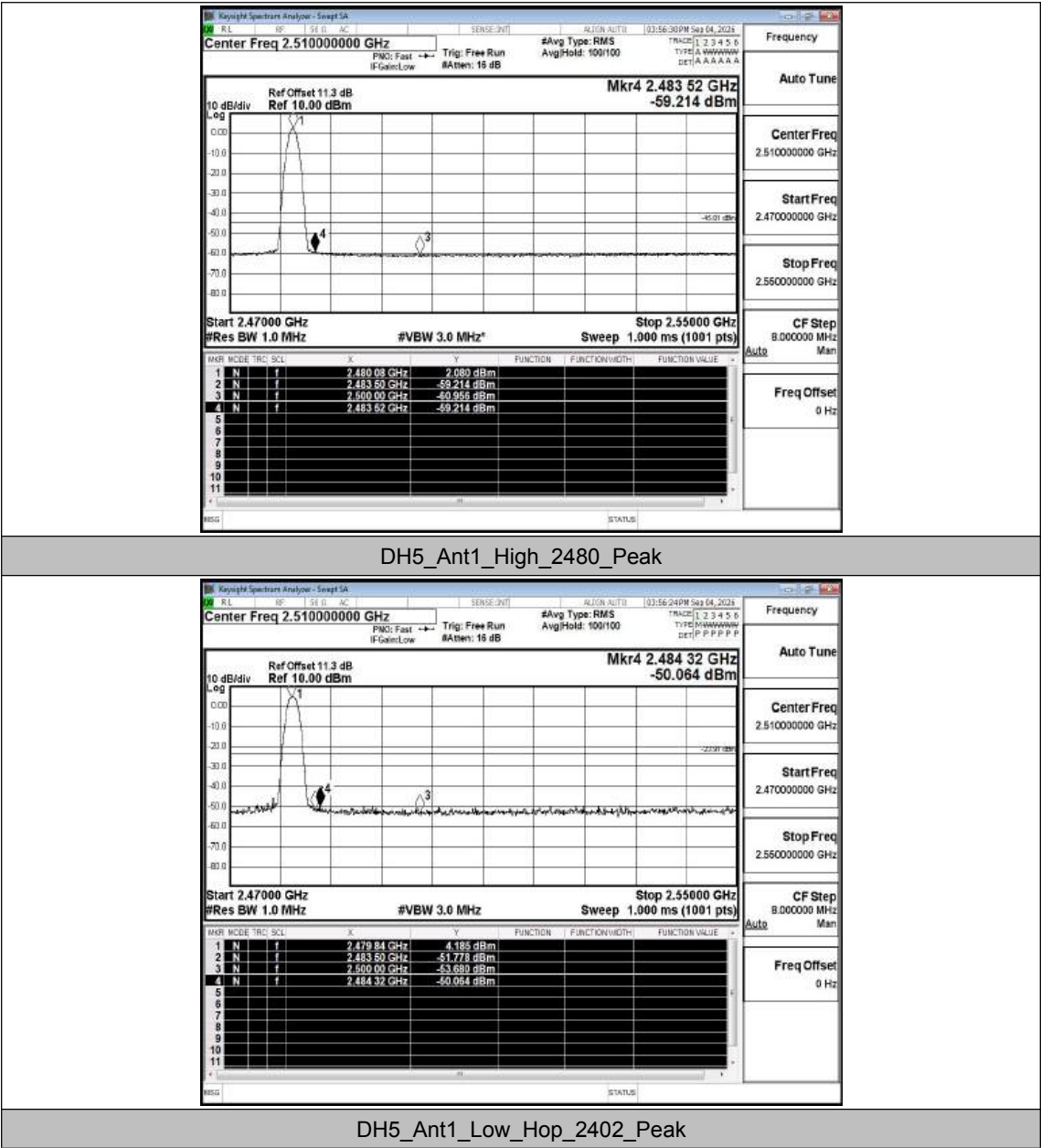
DH5_Ant1_Low_2402_AV

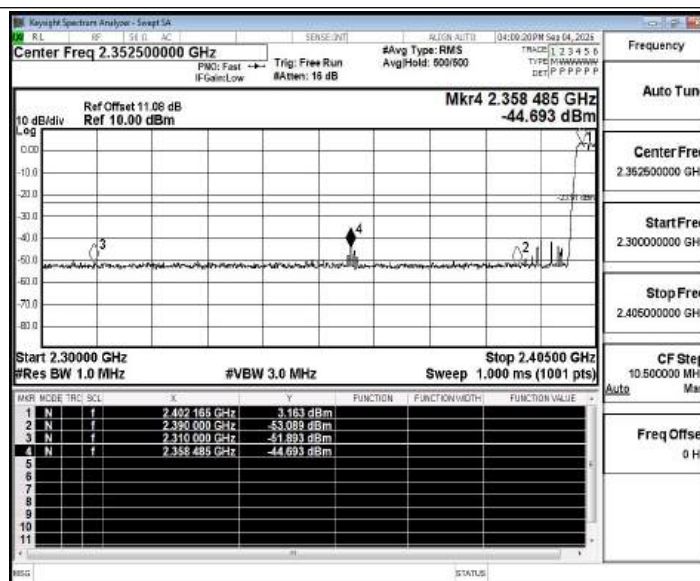


DH5_Ant1_Low_2402_Peak

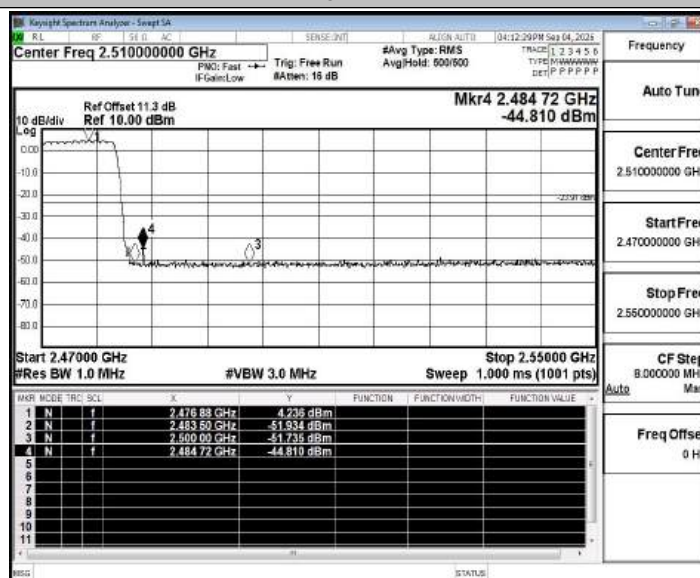


DH5_Ant1_High_2480_AV

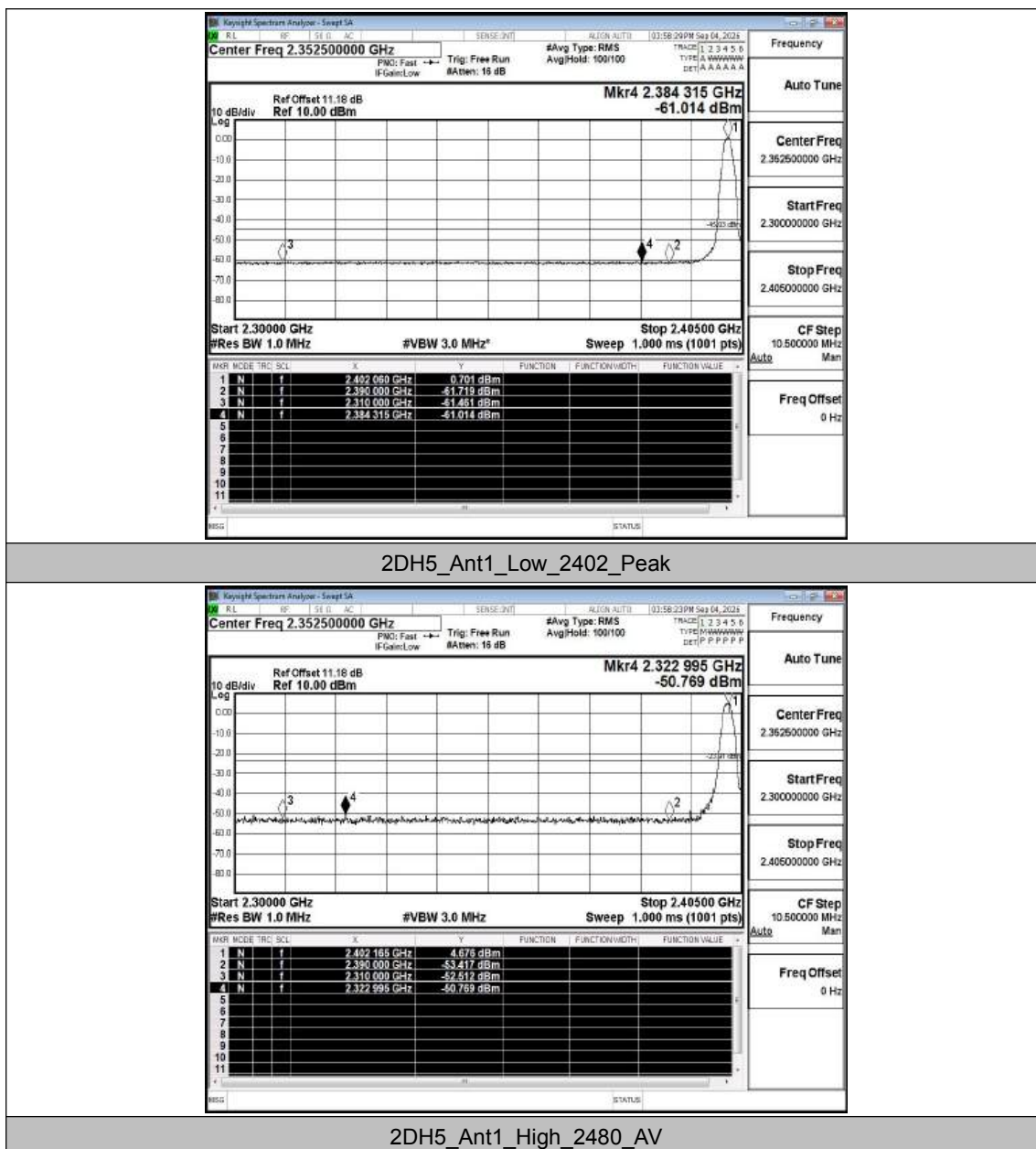


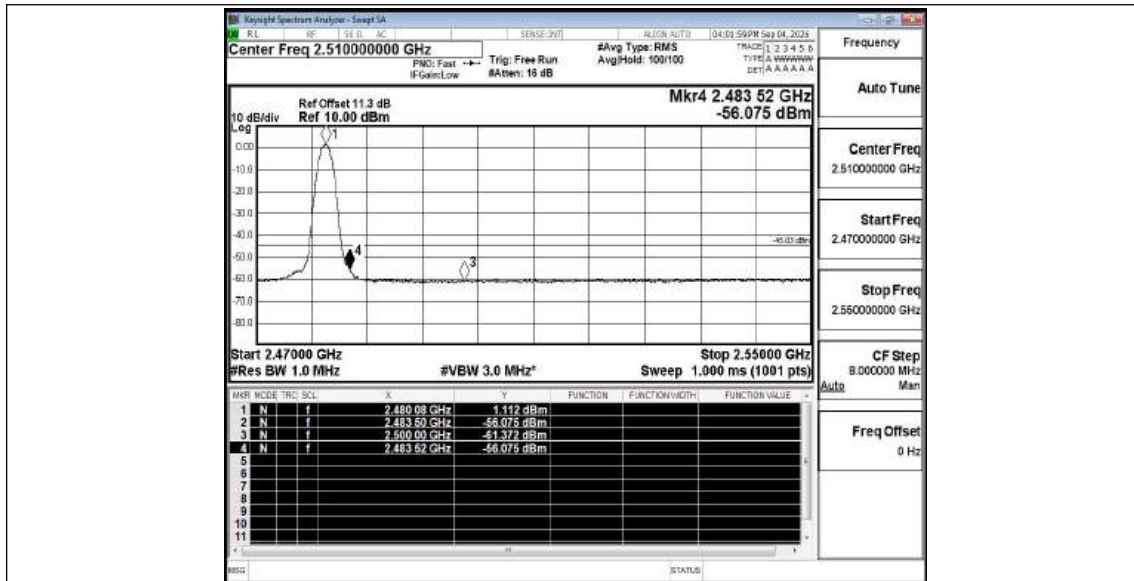


DH5_Ant1_High_Hop_2480_Peak

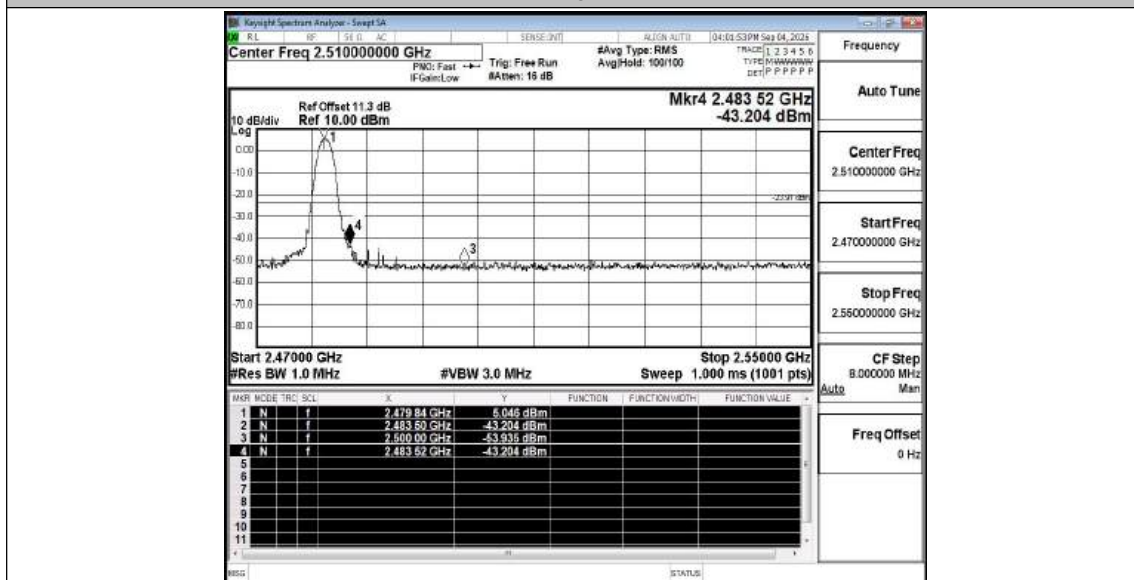


2DH5_Ant1_Low_2402_AV

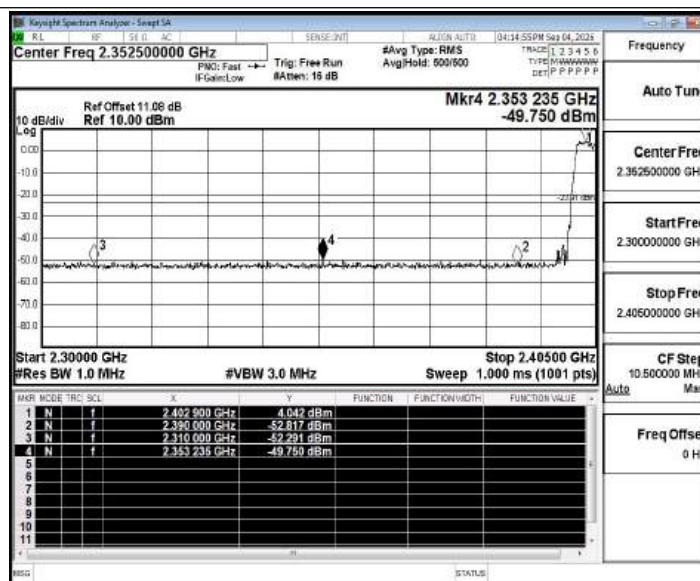




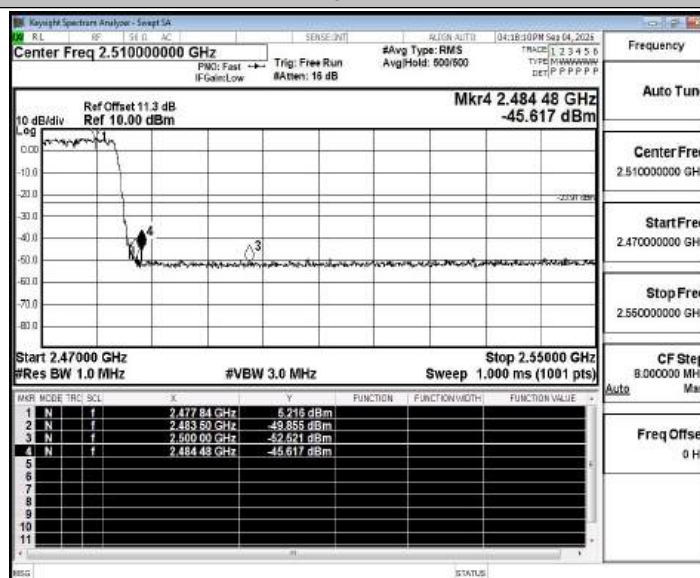
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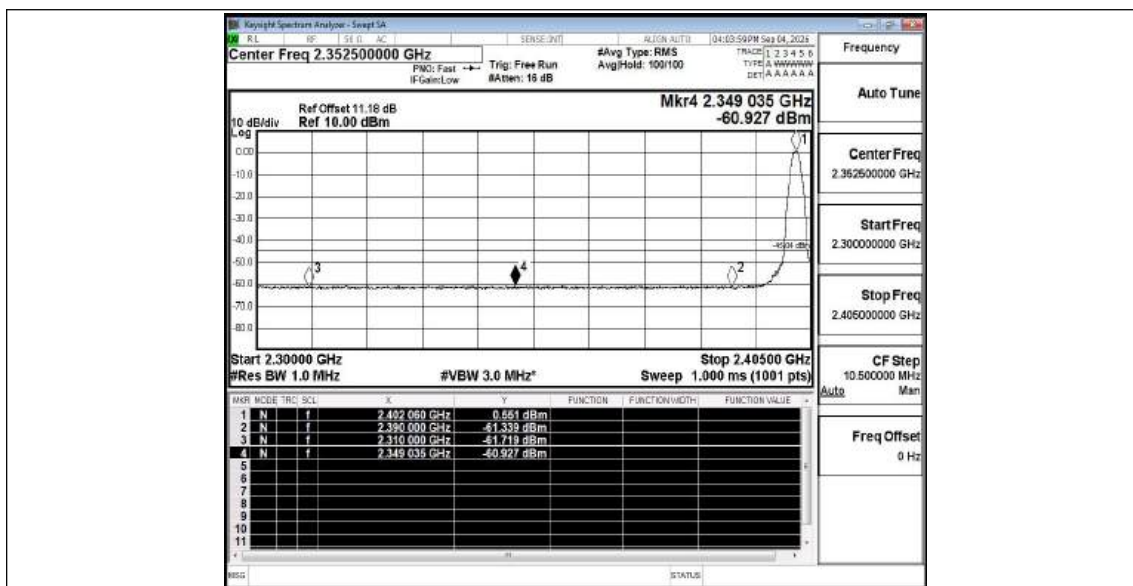
2DH5_Ant1_Low_Hop_2402_Peak



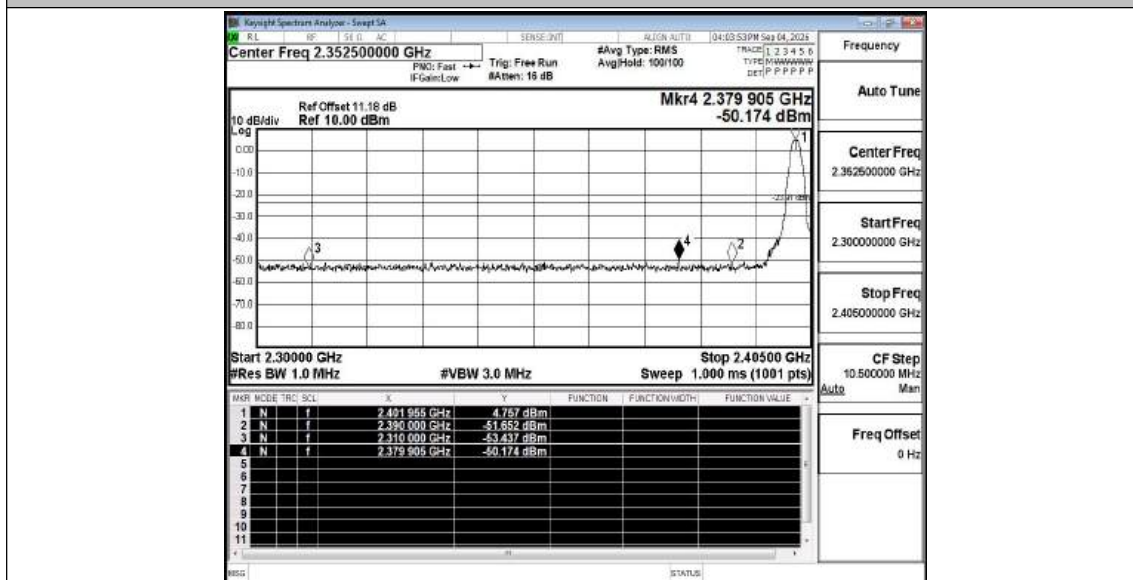
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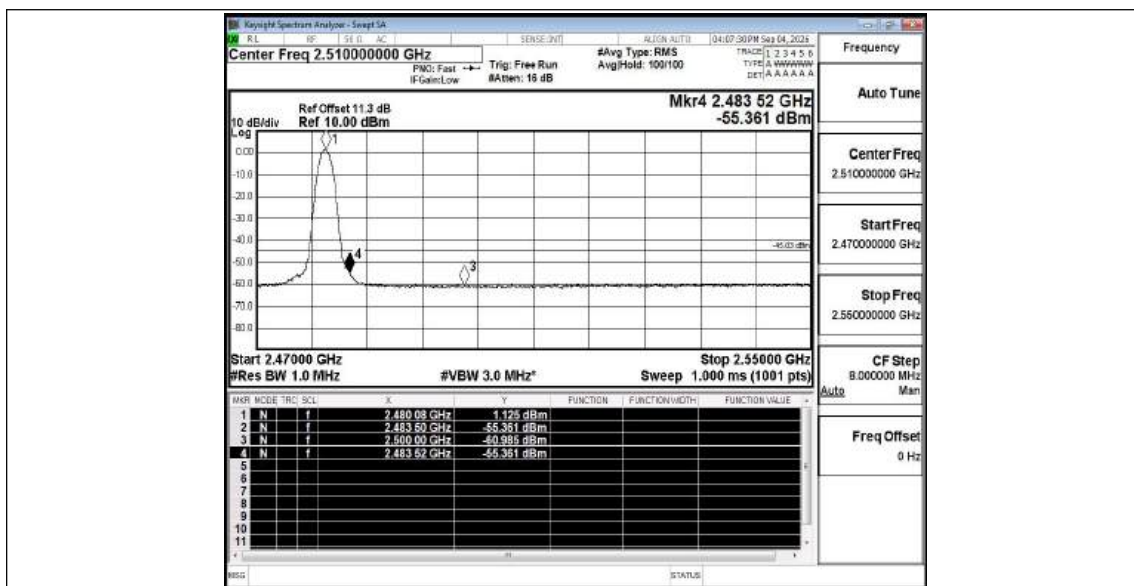
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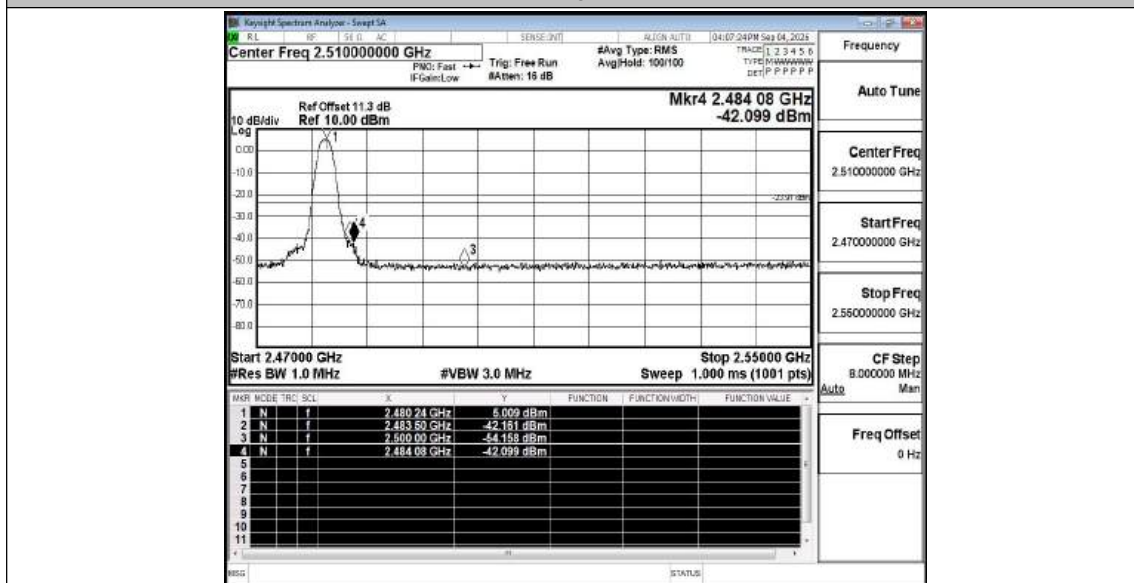
3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_Hop_2402_Peak

