Appendix A

RF Test Data for BT V5.1(DSS) (Conducted Measurement)

Product Name: TWS Bluetooth Headset

Trade Mark: AIHOOR

Test Model: AIHOOR A4

Environmental Conditions

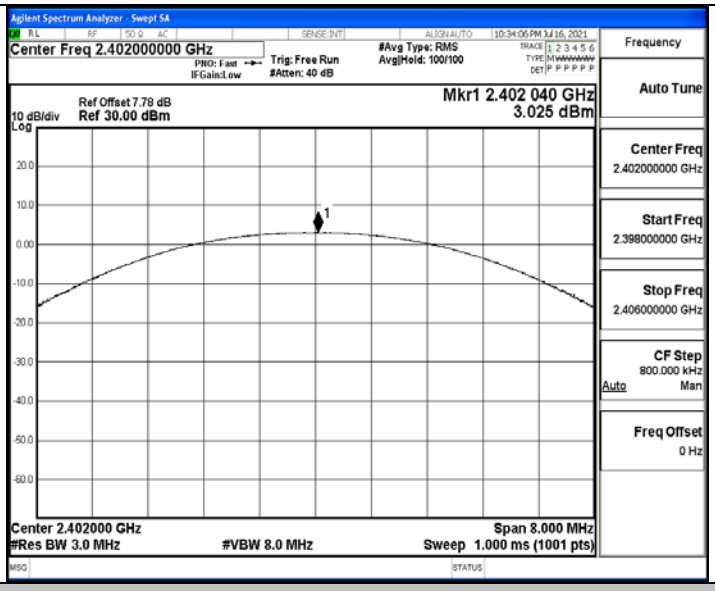
Temperature:	21.6℃
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

A.1 Maxmum Conducted Peak Output Power

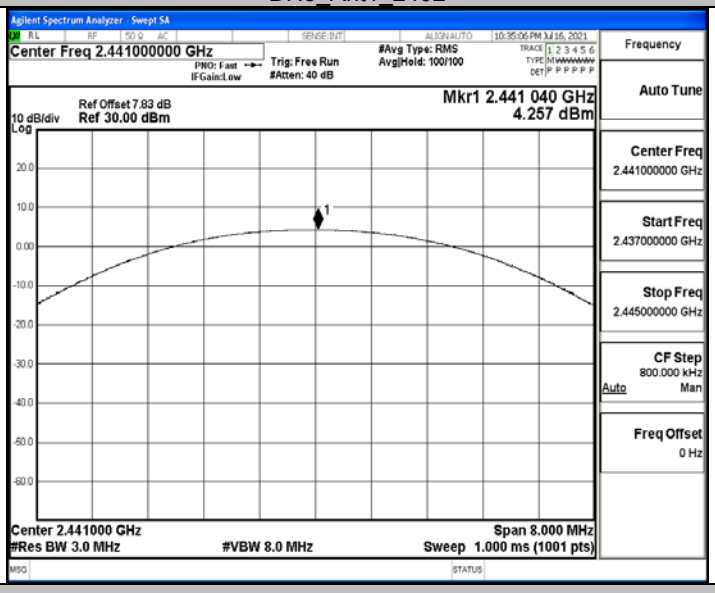
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.03	≤20.97	PASS
		2441	4.26	≤20.97	PASS
		2480	2.85	≤20.97	PASS
2DH5	Ant1	2402	2.12	≤20.97	PASS
		2441	3.37	≤20.97	PASS
		2480	2.01	≤20.97	PASS
3DH5	Ant1	2402	2.23	≤20.97	PASS
		2441	3.46	≤20.97	PASS
		2480	2.24	≤20.97	PASS

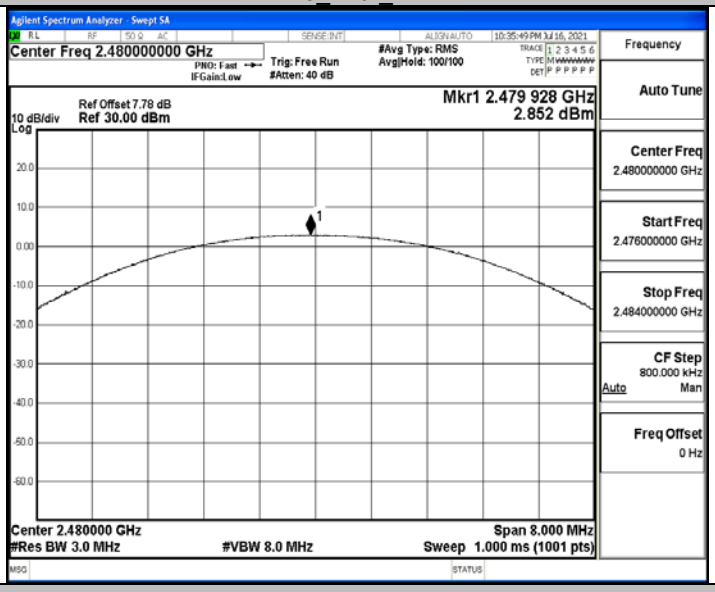
Test Graphs



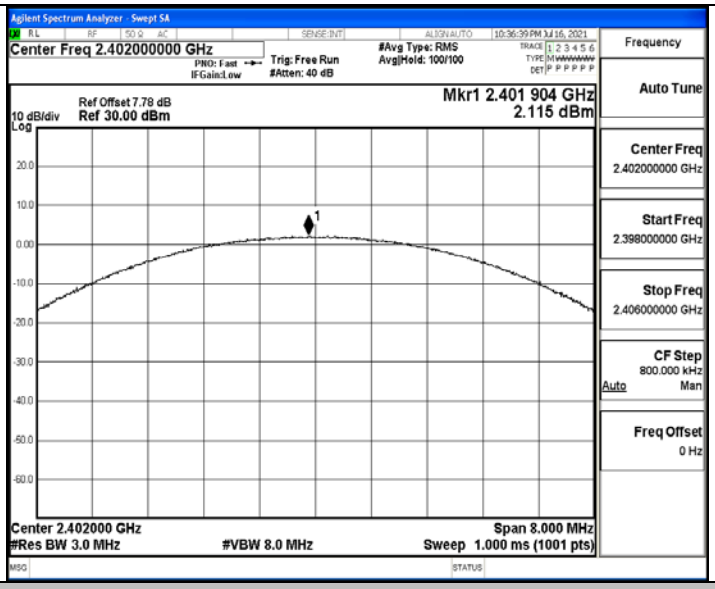
DH5_Ant1_2402



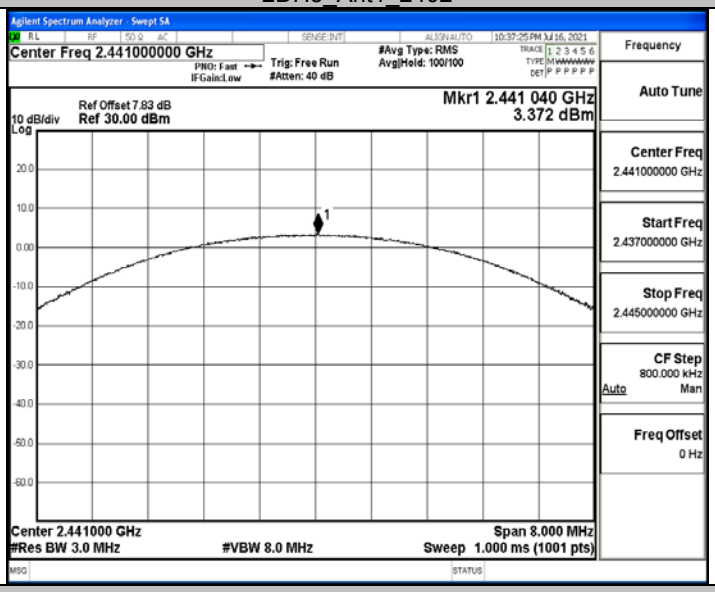
DH5_Ant1_2441



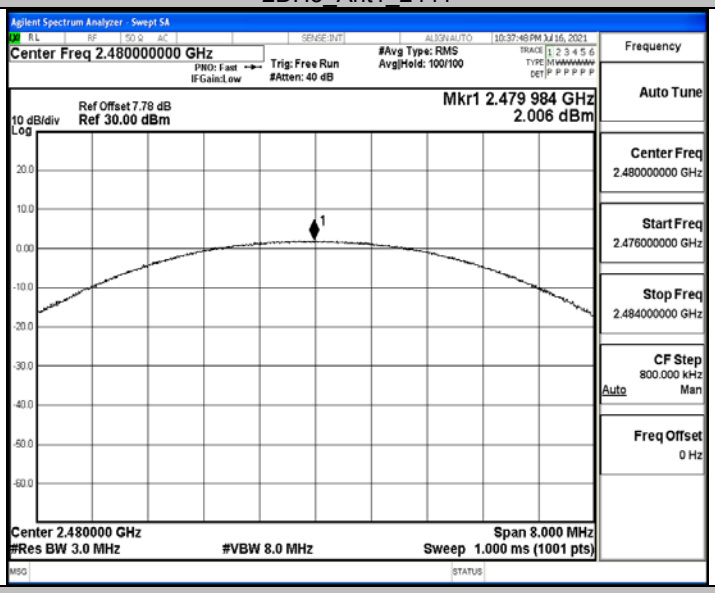
DH5_Ant1_2480



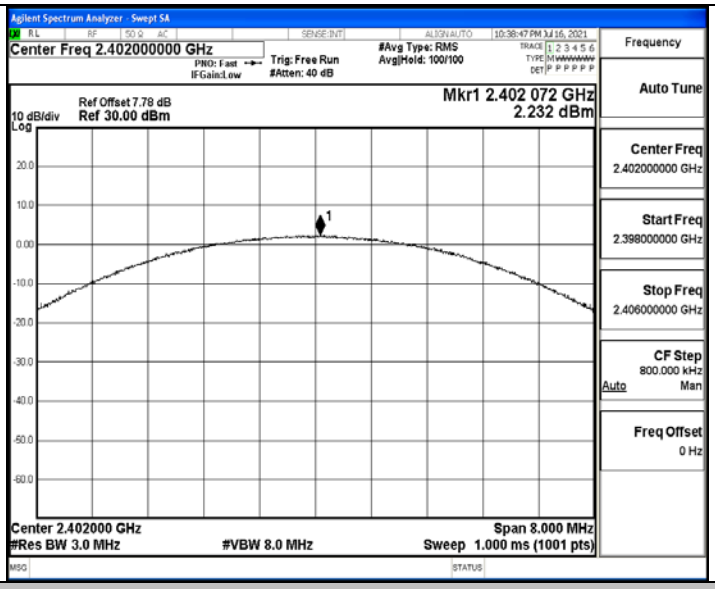
2DH5_Ant1_2402



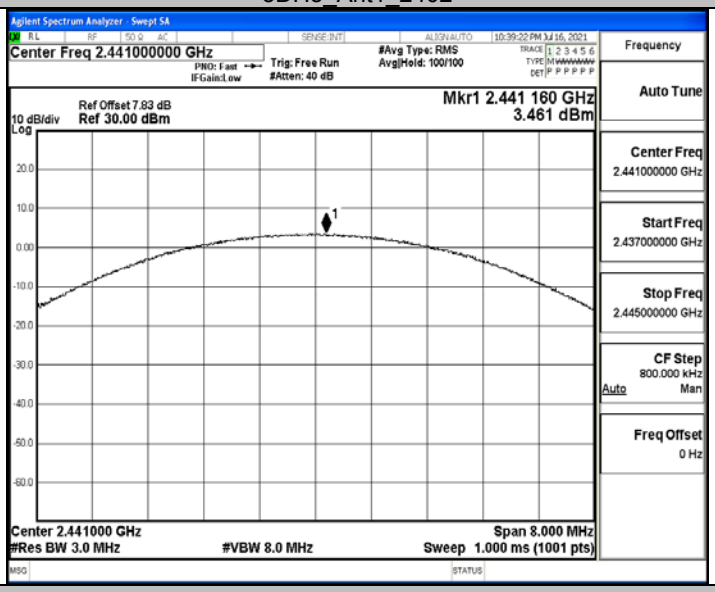
2DH5_Ant1_2441



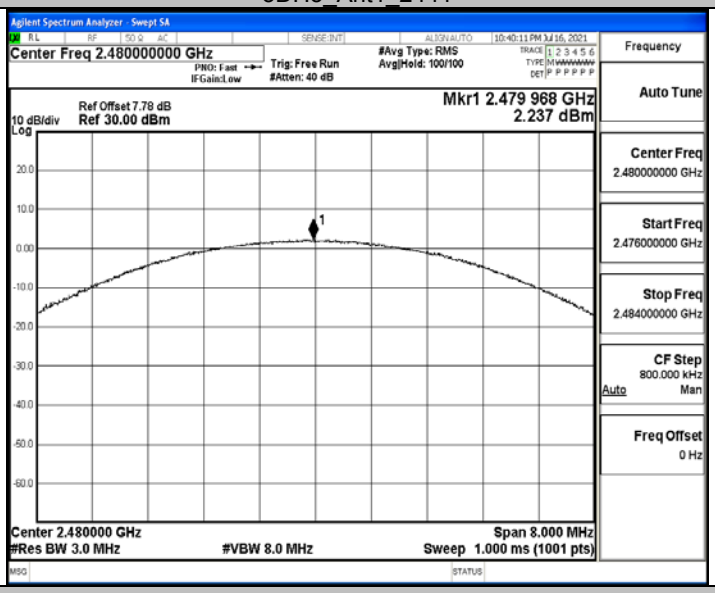
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



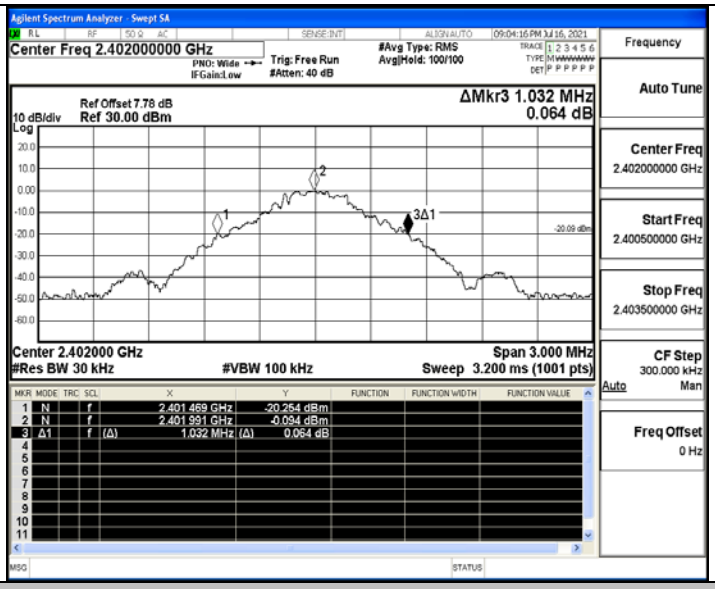
3DH5_Ant1_2480

A.2 20dB Bandwidth

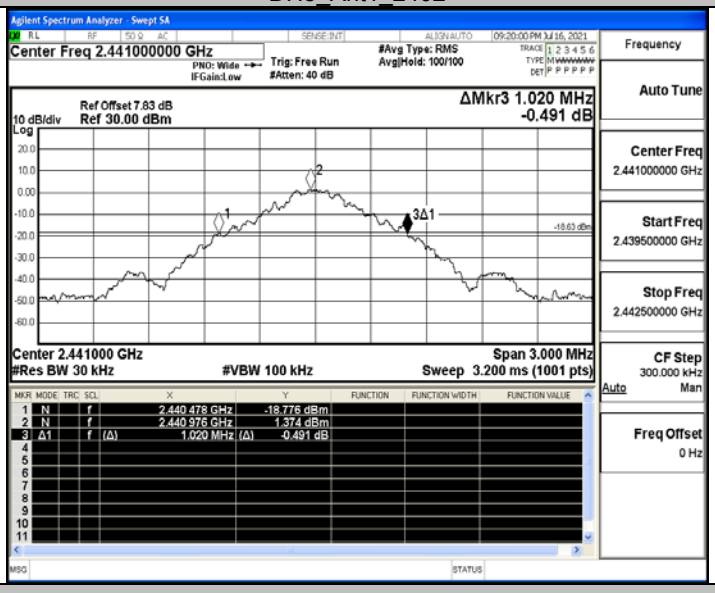
Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.032	2401.469	2402.501	---	PASS
		2441	1.020	2440.478	2441.498	---	PASS
		2480	1.035	2479.469	2480.504	---	PASS
2DH5	Ant1	2402	1.323	2401.340	2402.663	---	PASS
		2441	1.335	2440.331	2441.666	---	PASS
		2480	1.365	2479.322	2480.687	---	PASS
3DH5	Ant1	2402	1.302	2401.349	2402.651	---	PASS
		2441	1.347	2440.325	2441.672	---	PASS
		2480	1.299	2479.349	2480.648	---	PASS

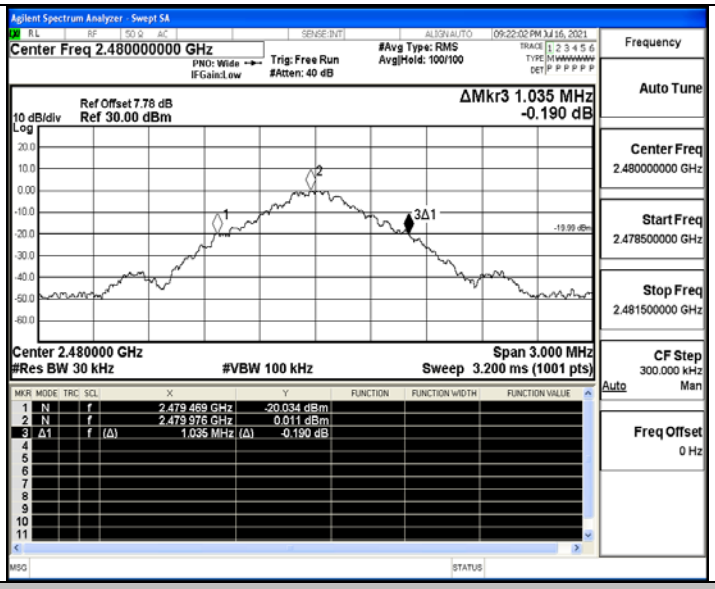
Test Graphs



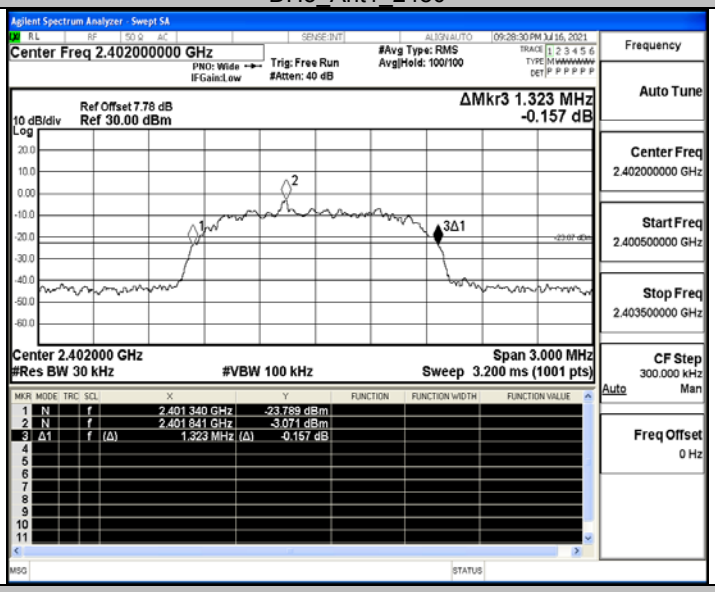
DH5_Ant1_2402



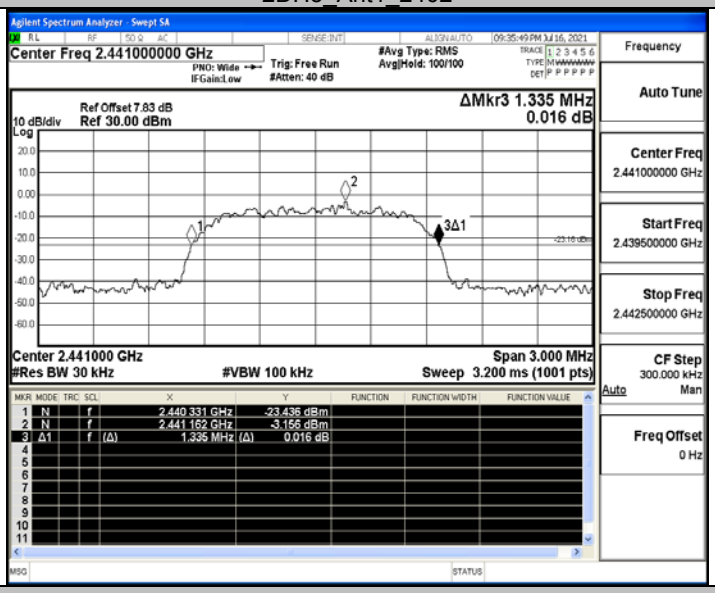
DH5_Ant1_2441



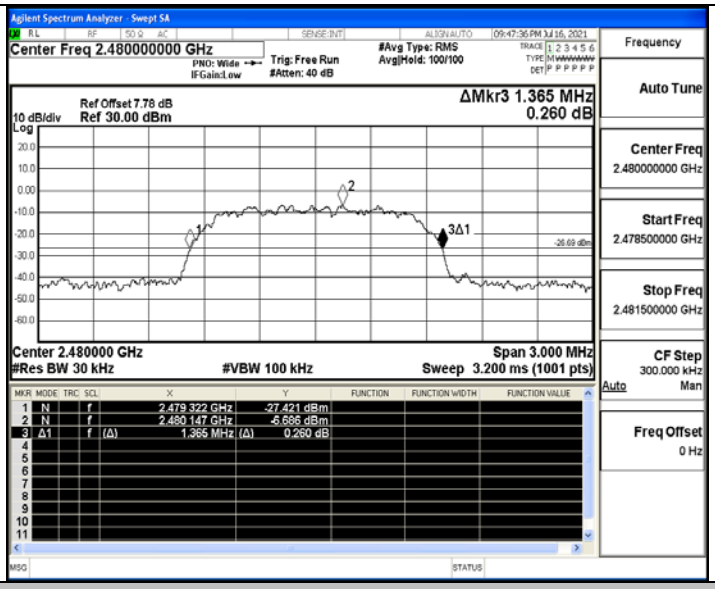
DH5_Ant1_2480



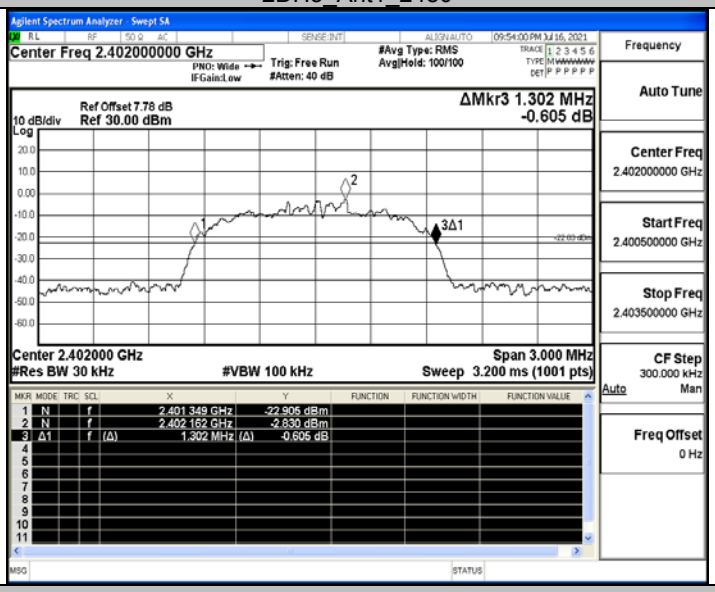
2DH5_Ant1_2402



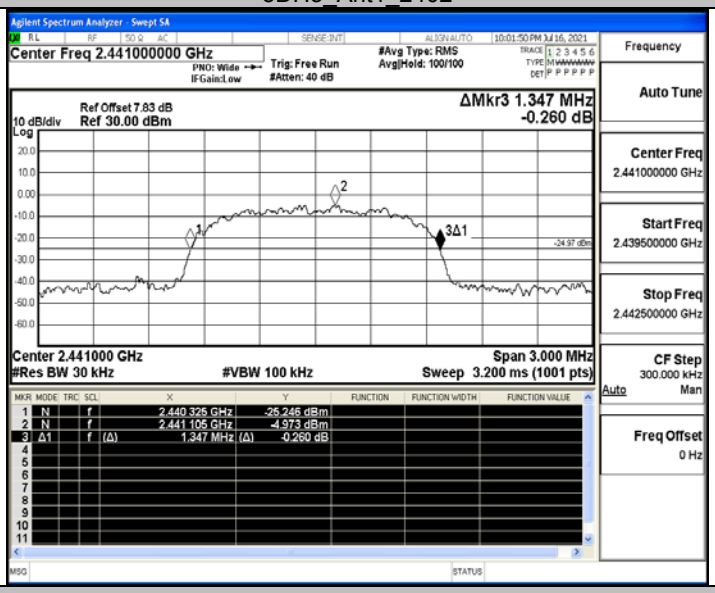
2DH5_Ant1_2441



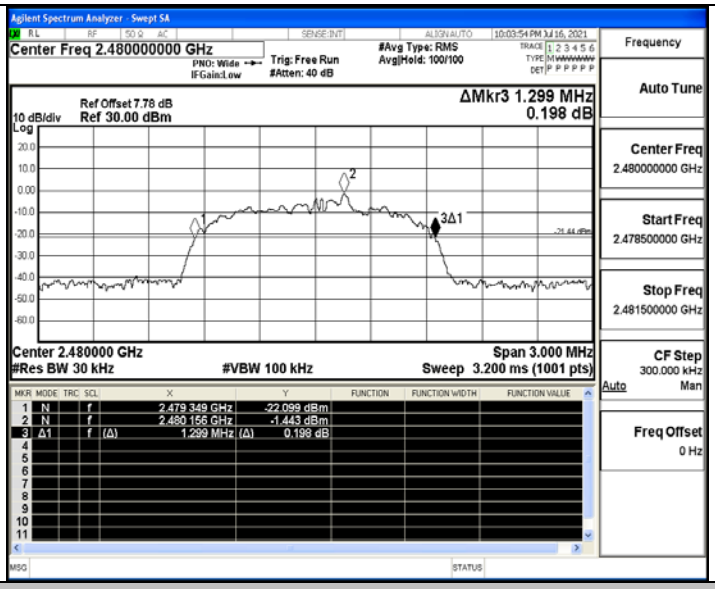
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



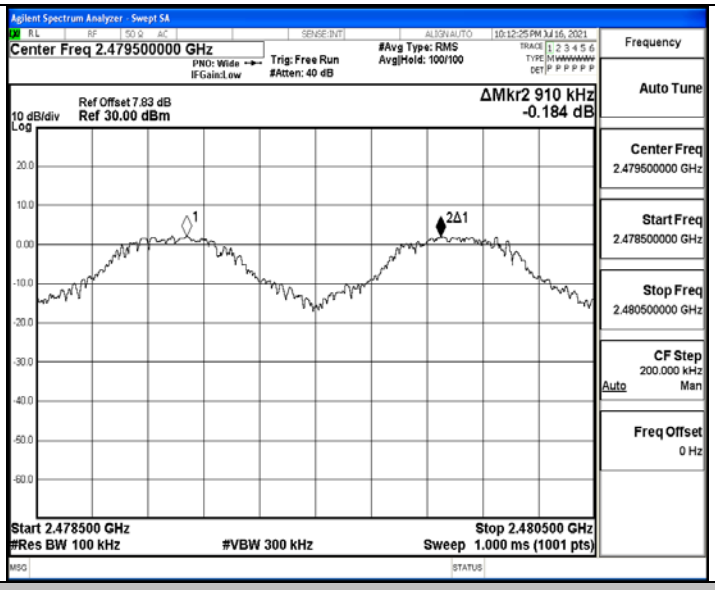
3DH5_Ant1_2480

A.3 Carrier Frequency Separation

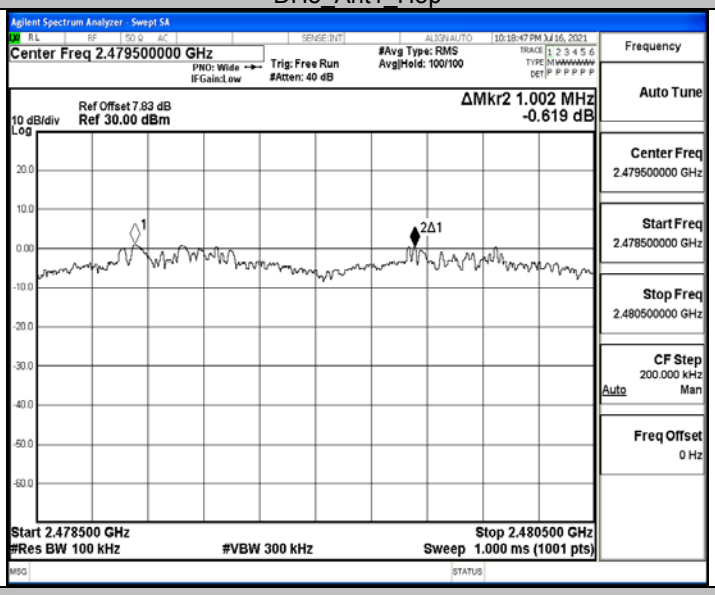
Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.91	≥0.690	PASS
2DH5	Ant1	Hop	1.002	≥0.910	PASS
3DH5	Ant1	Hop	1.324	≥0.898	PASS

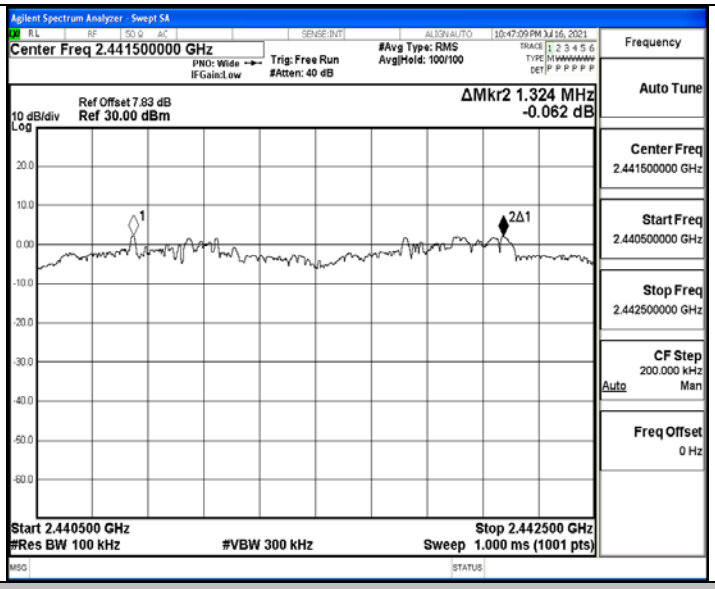
Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



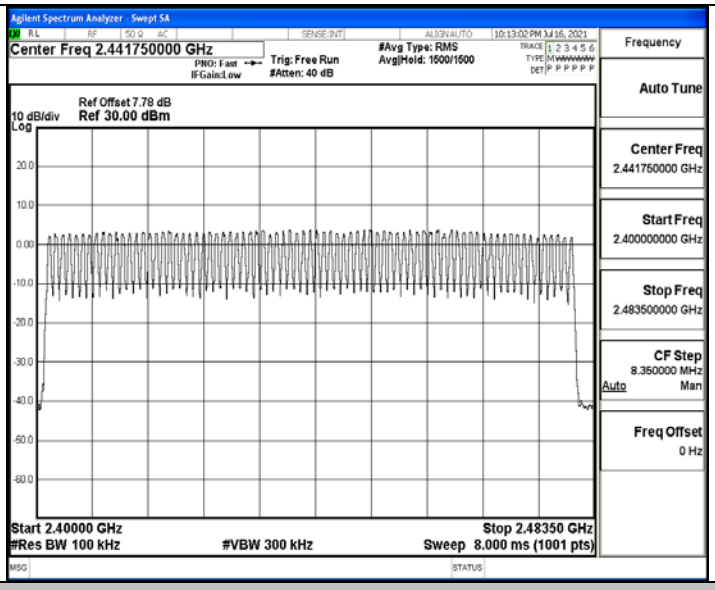
3DH5_Ant1_Hop

A.4 Hopping Channel Number

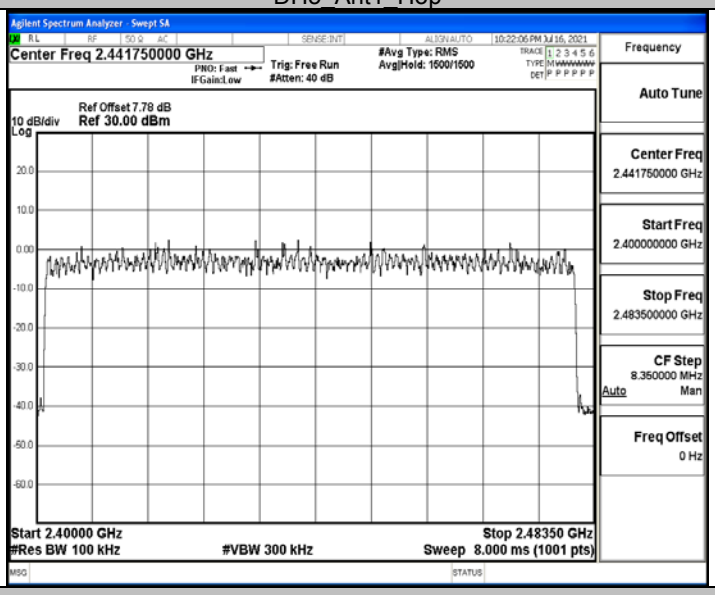
Test Result

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

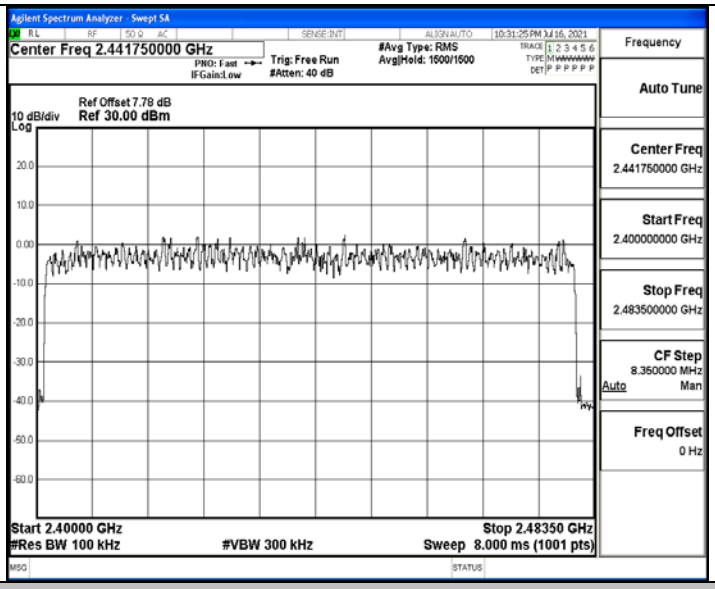
Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



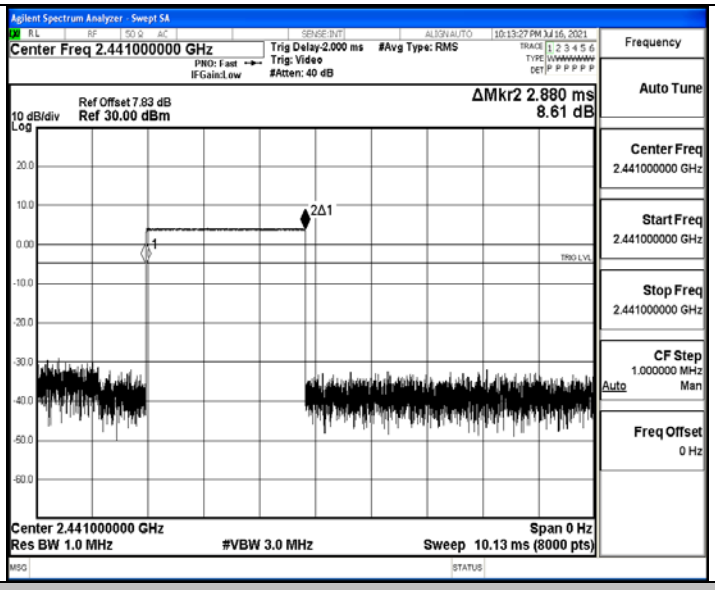
3DH5_Ant1_Hop

A.5 Dwell Time

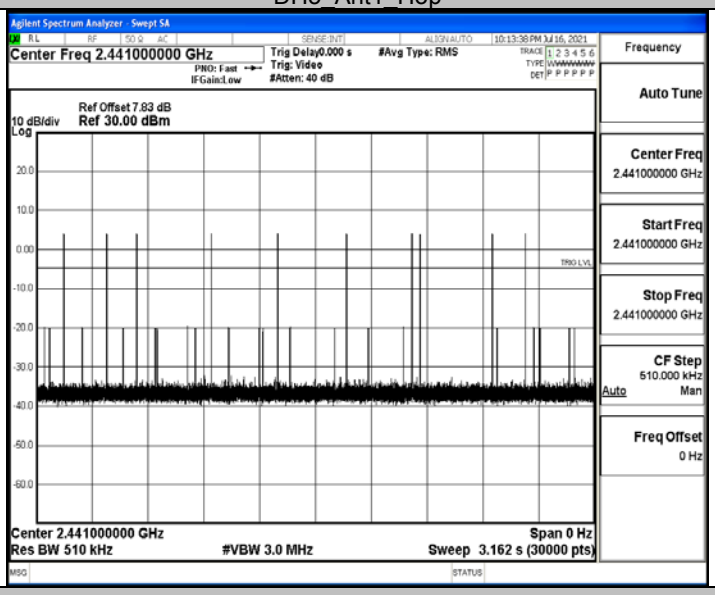
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	3.08	50	0.154	≤0.4	PASS
3DH5	Ant1	Hop	2.89	120	0.346	≤0.4	PASS

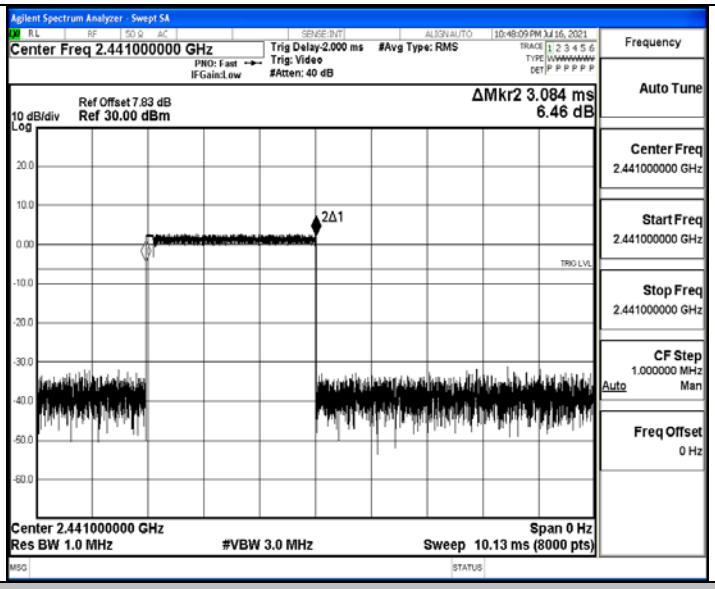
Test Graphs



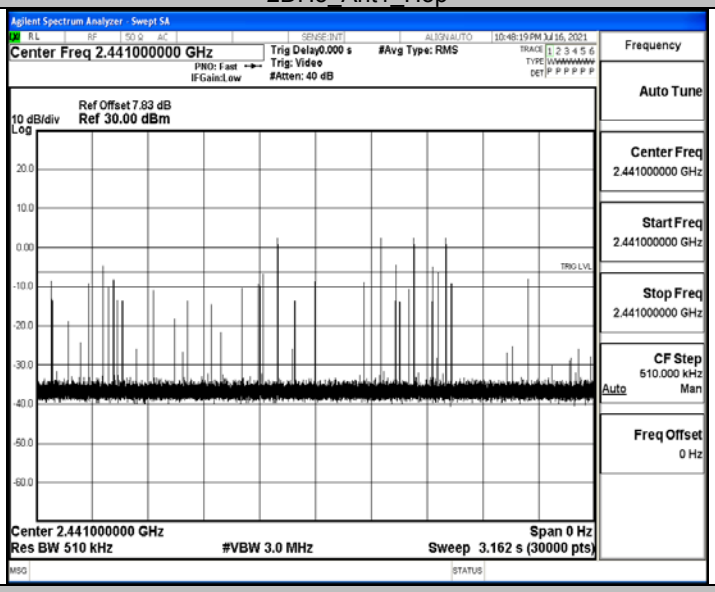
DH5_Ant1_Hop



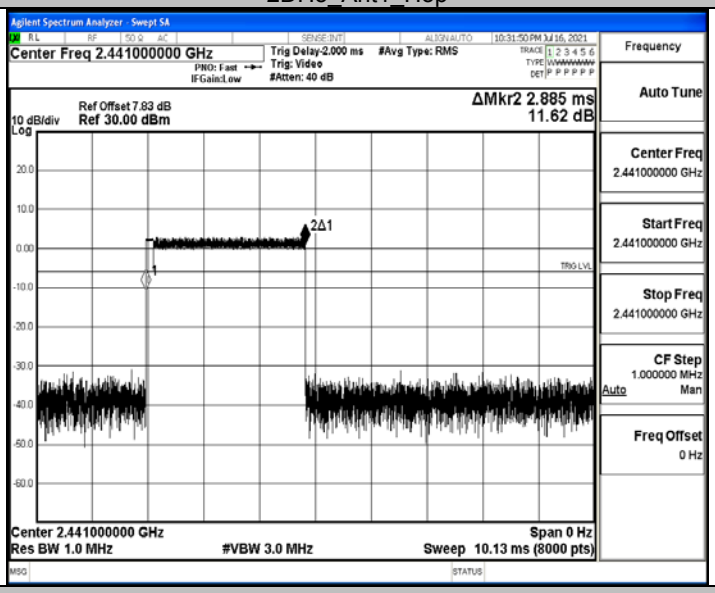
DH5_Ant1_Hop



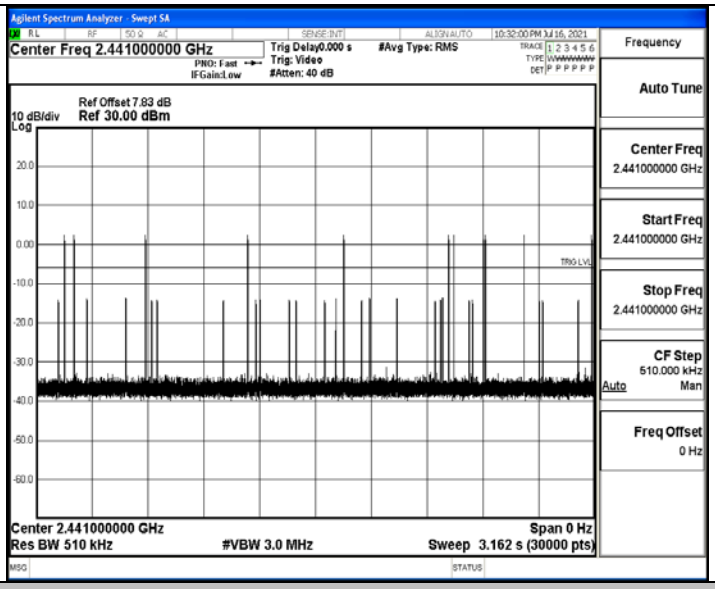
2DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



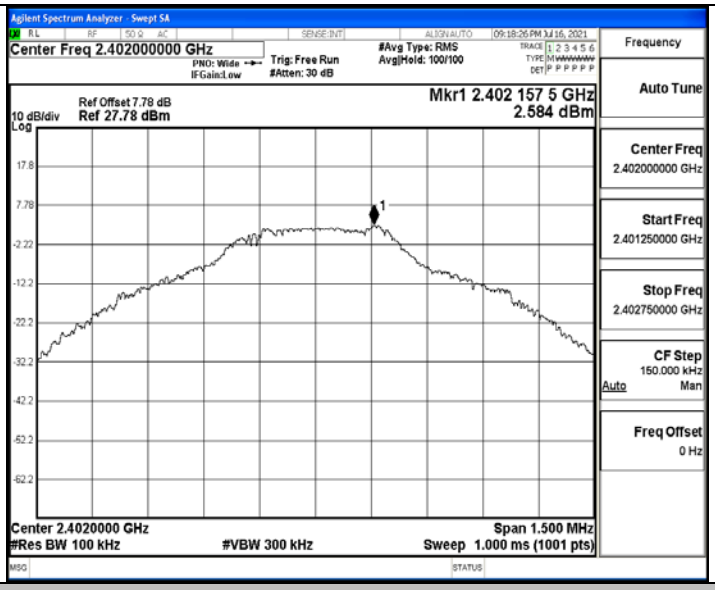
3DH5_Ant1_Hop

A.6 RF Conducted Spurious Emissions

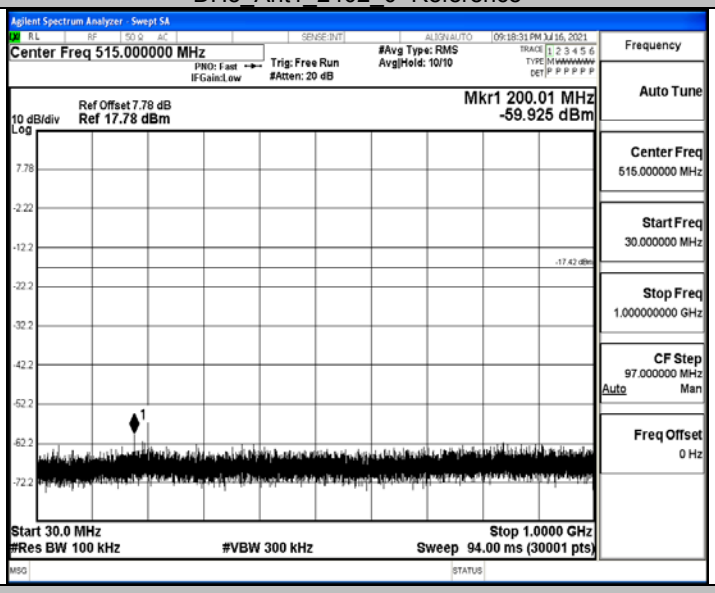
Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.58	2.58	---	PASS
			30~1000	2.58	-59.93	≤-17.42	PASS
			1000~26500	2.58	-47.45	≤-17.42	PASS
		2441	Reference	3.18	3.18	---	PASS
			30~1000	3.18	-60.35	≤-16.82	PASS
			1000~26500	3.18	-47.23	≤-16.82	PASS
		2480	Reference	2.37	2.37	---	PASS
			30~1000	2.37	-59.57	≤-17.63	PASS
			1000~26500	2.37	-47.5	≤-17.63	PASS
2DH5	Ant1	2402	Reference	0.88	0.88	---	PASS
			30~1000	0.88	-59.23	≤-19.12	PASS
			1000~26500	0.88	-47.98	≤-19.12	PASS
		2441	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-59.13	≤-20.85	PASS
			1000~26500	-0.85	-47.32	≤-20.85	PASS
		2480	Reference	1.12	1.12	---	PASS
			30~1000	1.12	-60.34	≤-18.88	PASS
			1000~26500	1.12	-47.37	≤-18.88	PASS
3DH5	Ant1	2402	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-60.06	≤-18.96	PASS
			1000~26500	1.04	-47.67	≤-18.96	PASS
		2441	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-58.86	≤-17.7	PASS
			1000~26500	2.30	-46.69	≤-17.7	PASS
		2480	Reference	0.98	0.98	---	PASS
			30~1000	0.98	-59.21	≤-19.02	PASS
			1000~26500	0.98	-47.24	≤-19.02	PASS

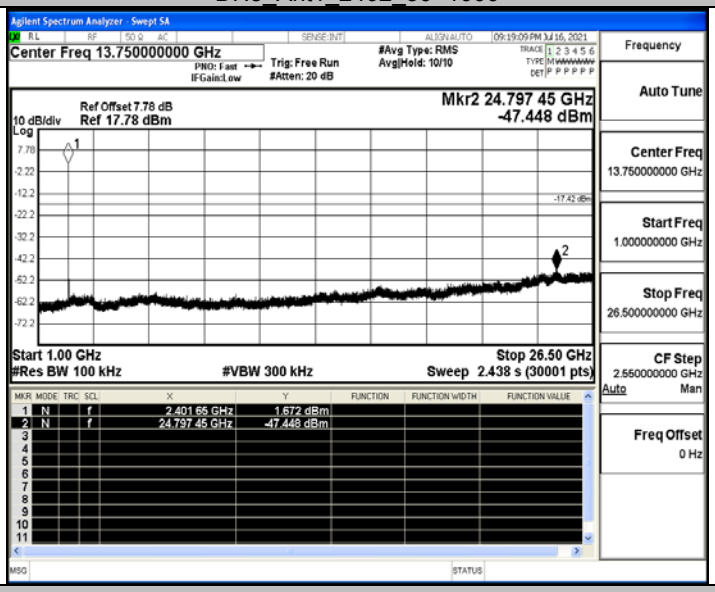
Test Graphs



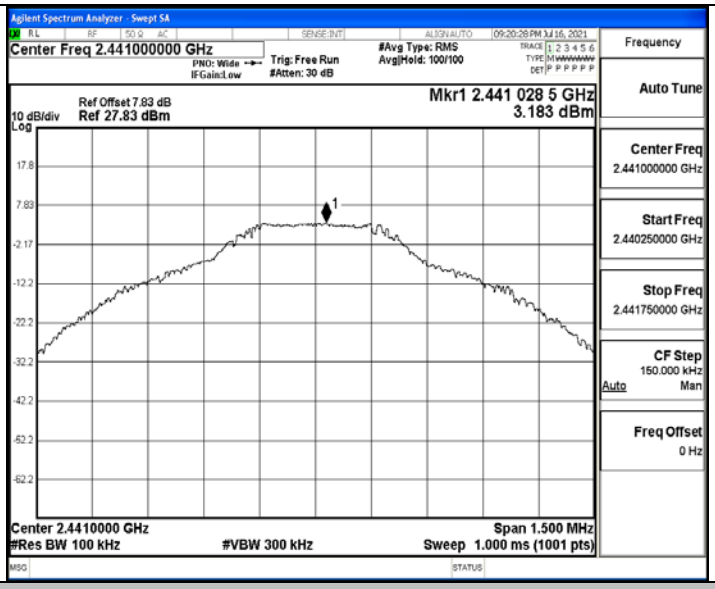
DH5_Ant1_2402_0~Reference



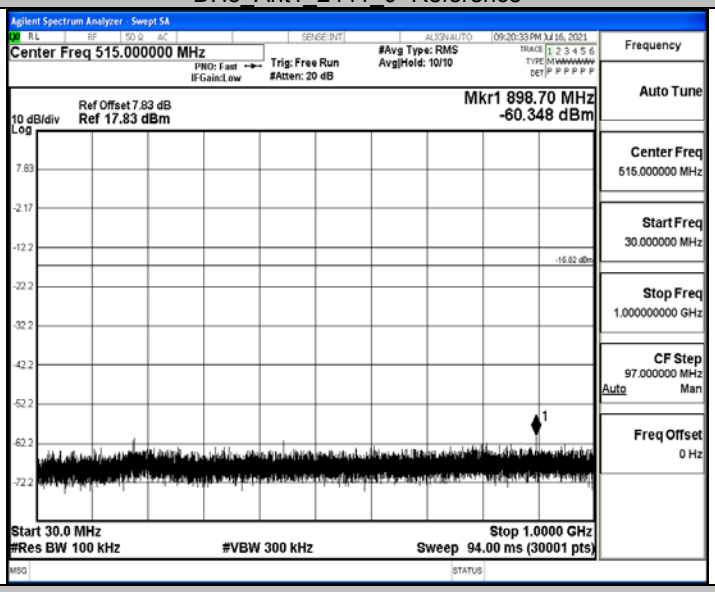
DH5_Ant1_2402_30~1000



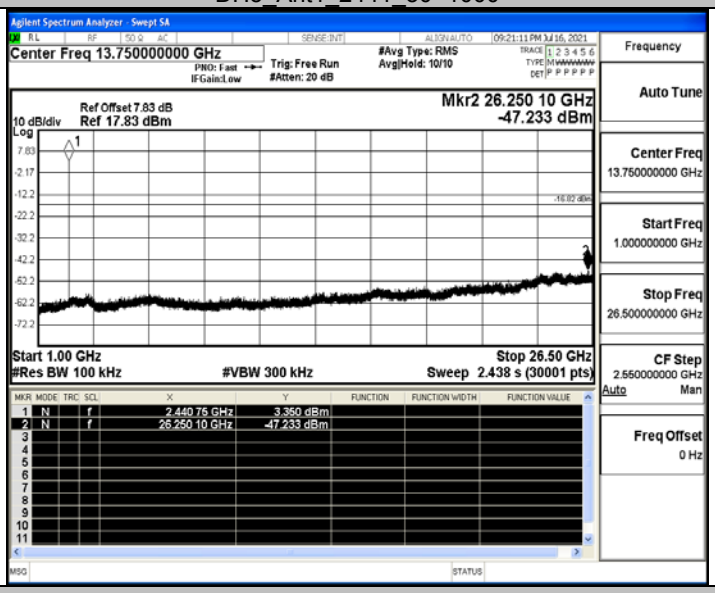
DH5_Ant1_2402_1000~26500



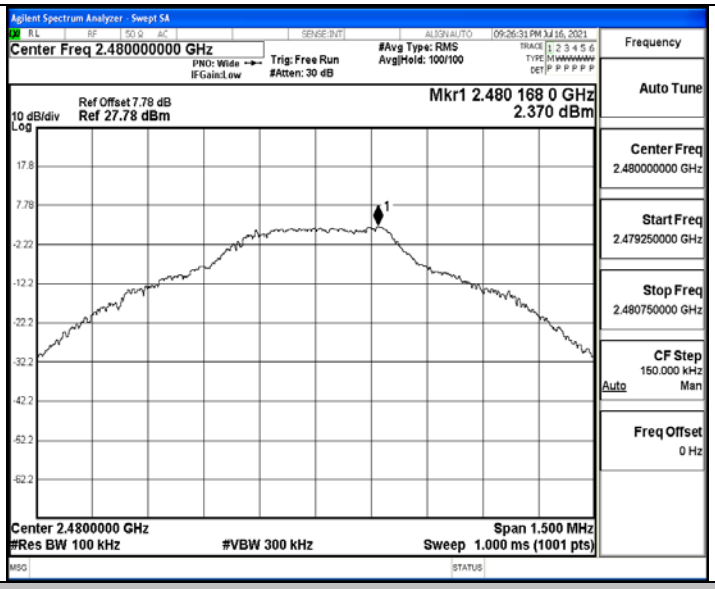
DH5_Ant1_2441_0~Reference



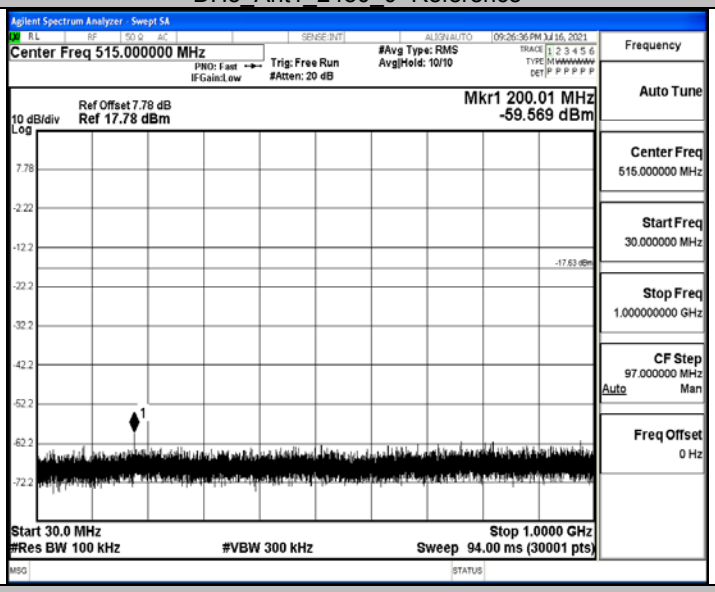
DH5_Ant1_2441_30~1000



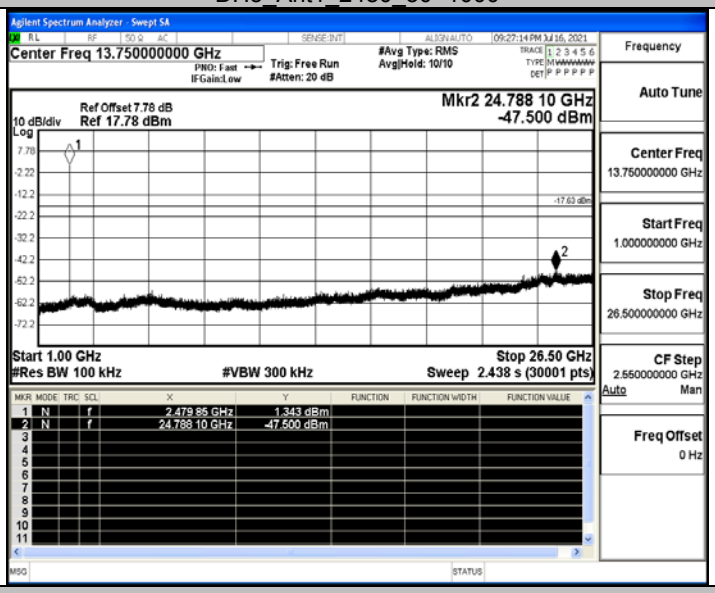
DH5_Ant1_2441_1000~26500



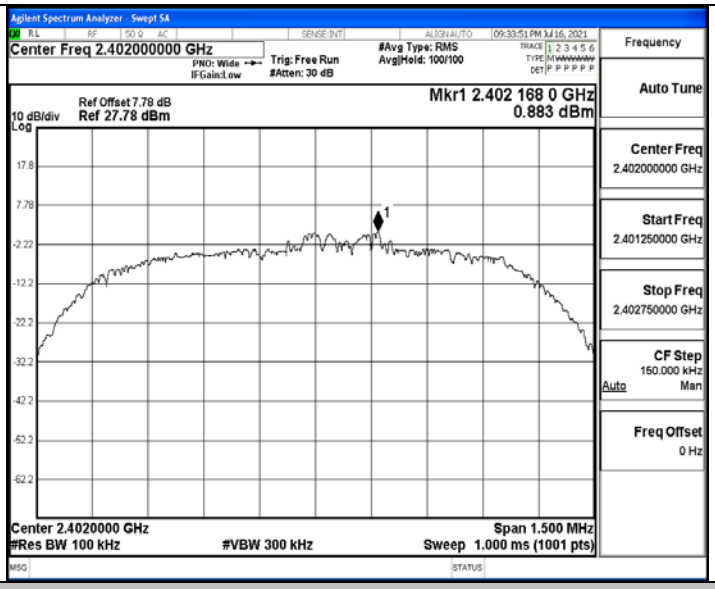
DH5_Ant1_2480_0~Reference



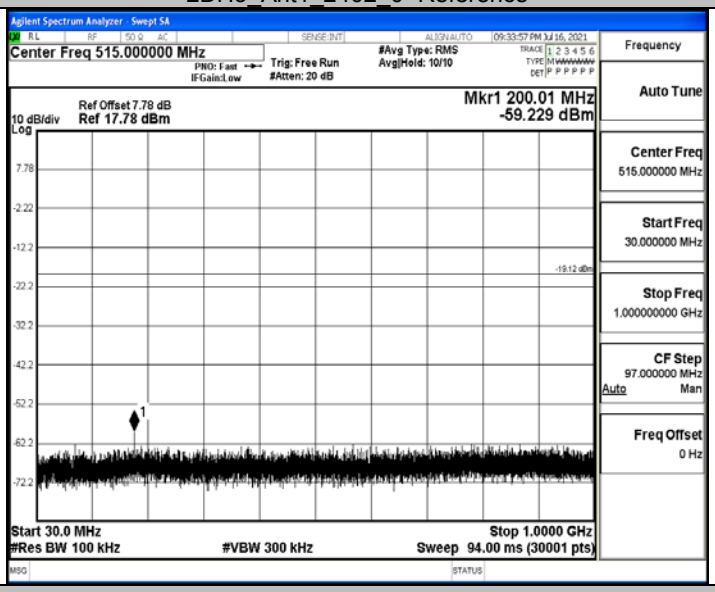
DH5_Ant1_2480_30~1000



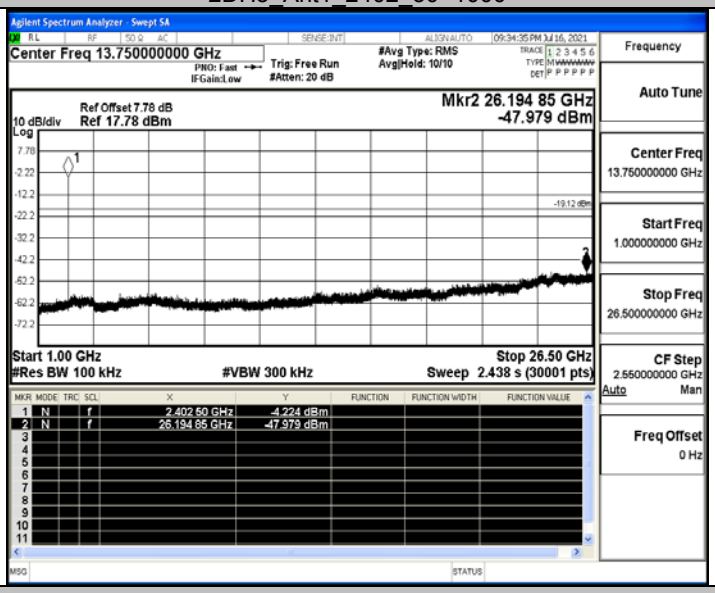
DH5_Ant1_2480_1000~26500



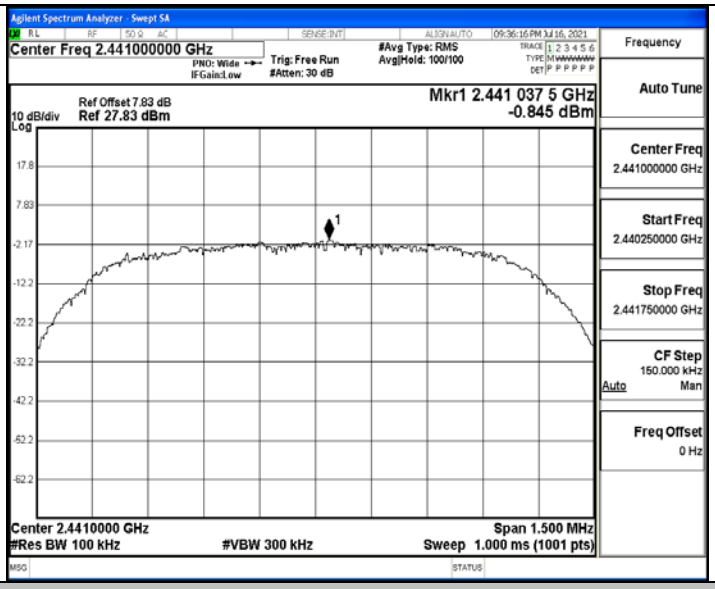
2DH5_Ant1_2402_0~Reference



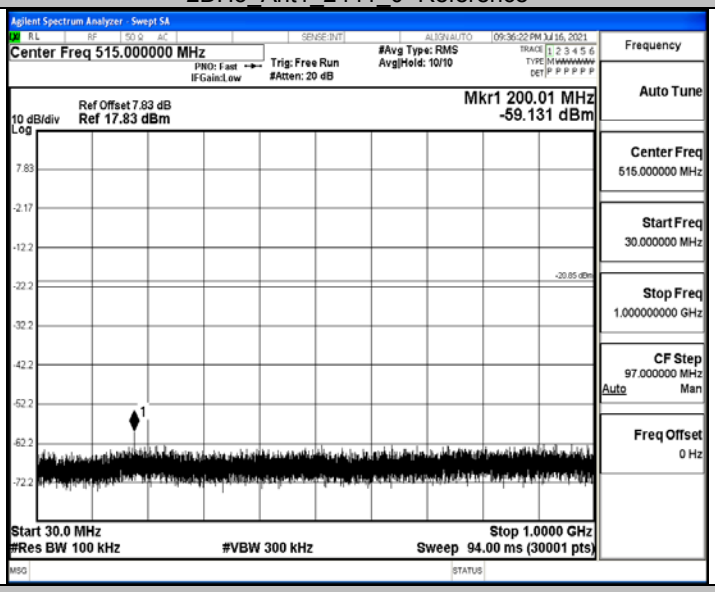
2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



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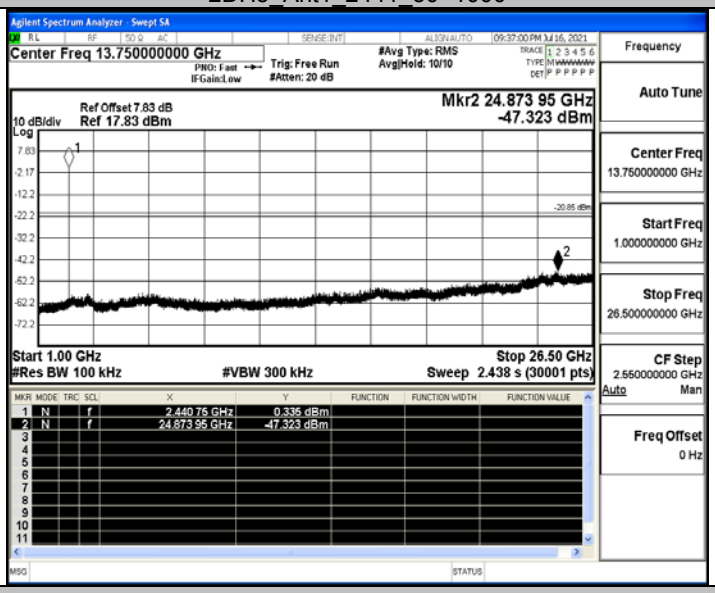
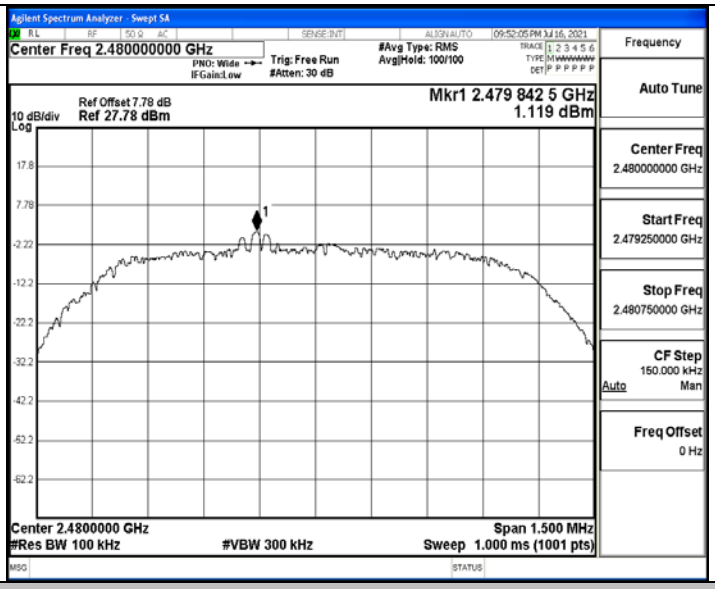


2DH5_Ant1_2441_1000~26500



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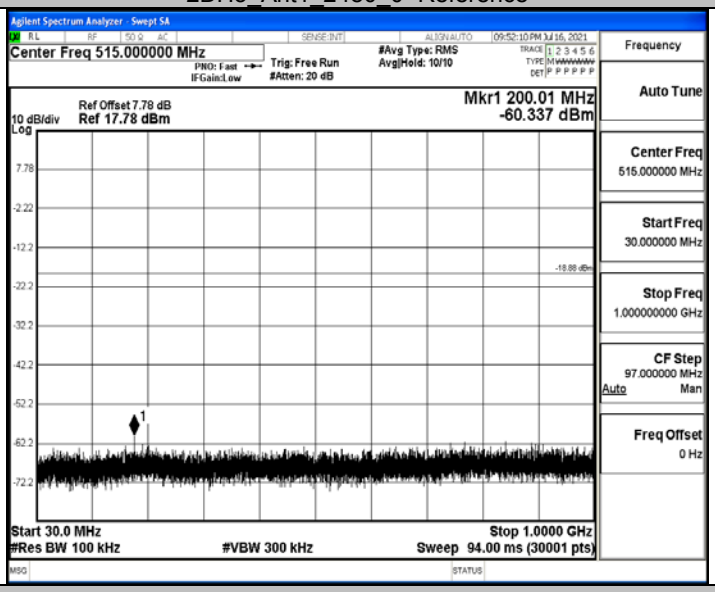

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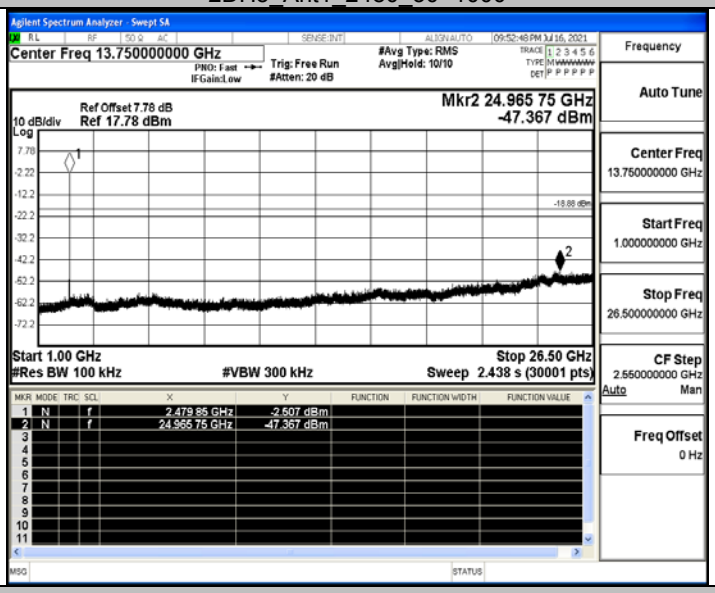

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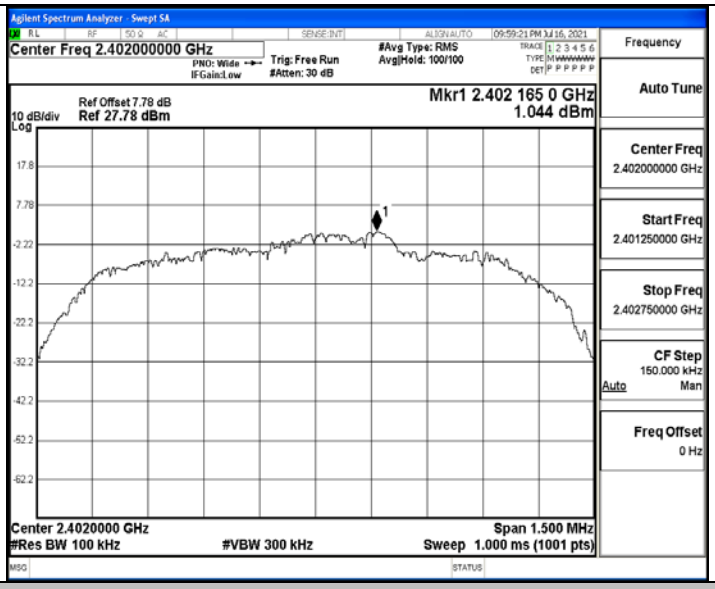

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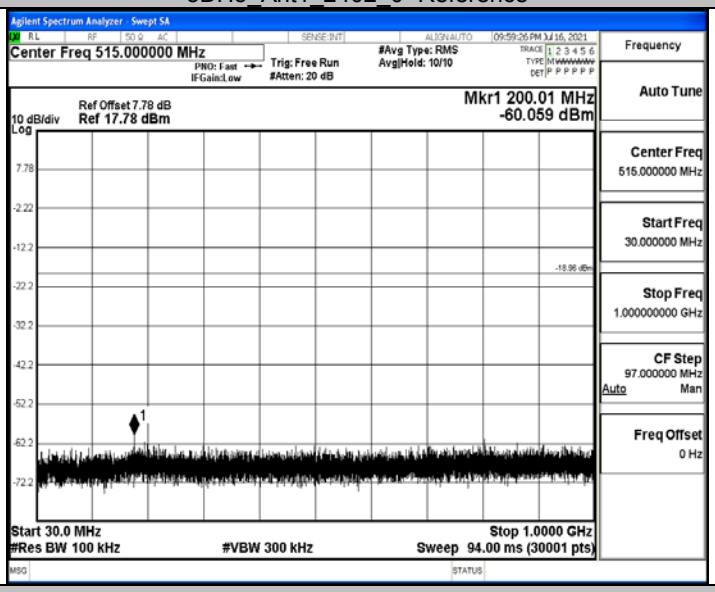

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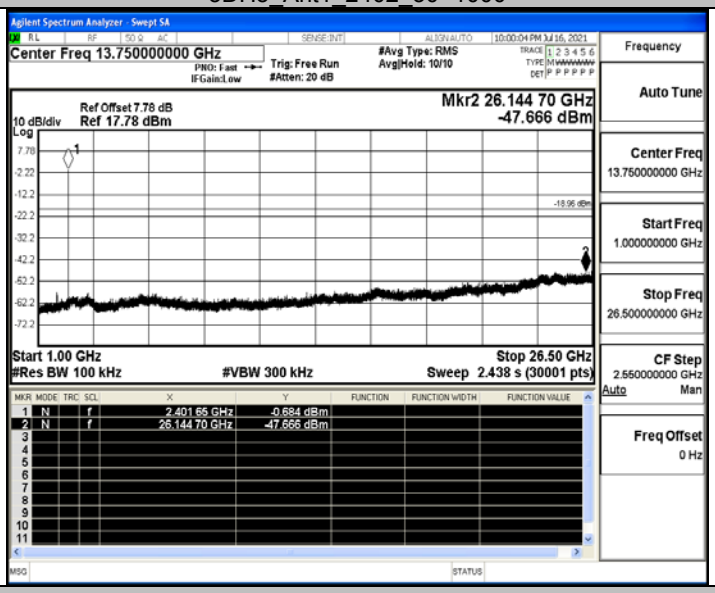

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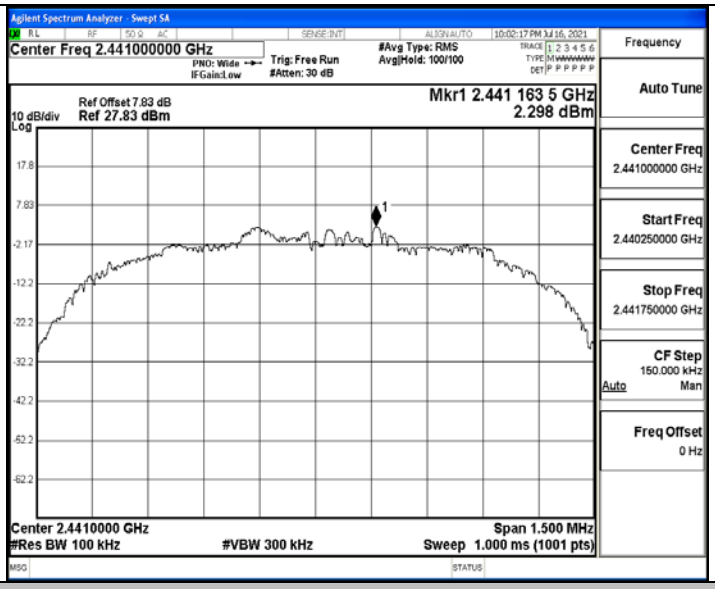

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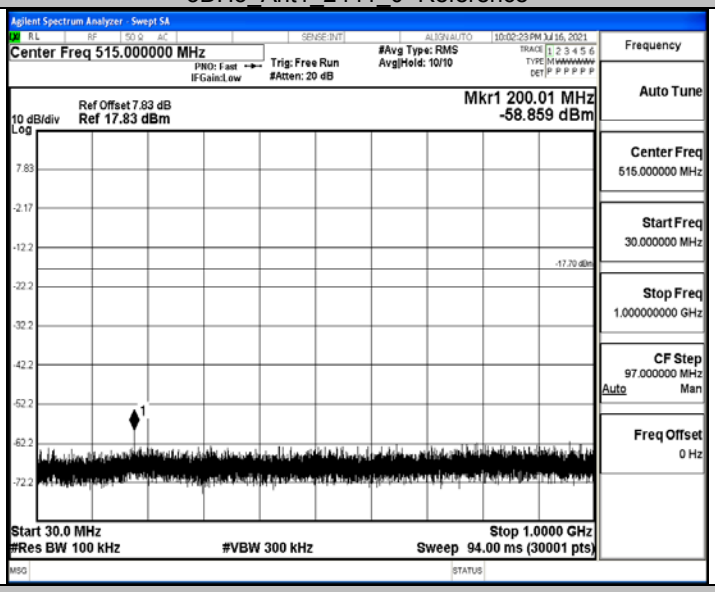
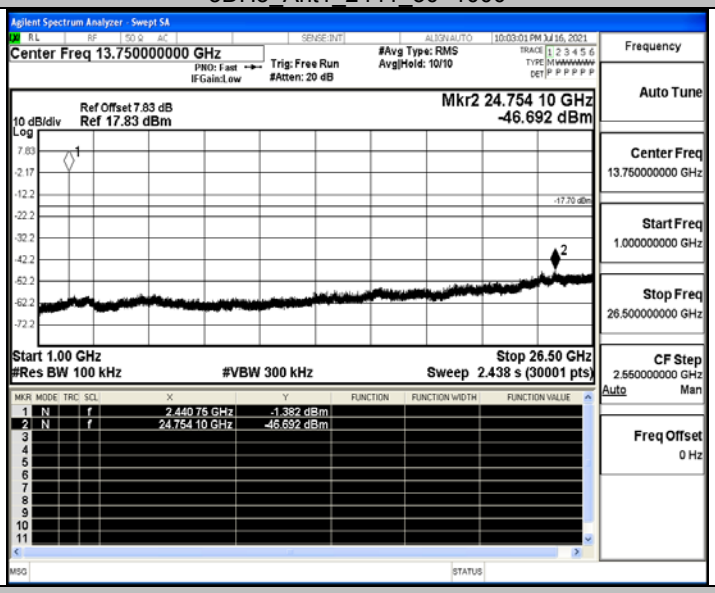
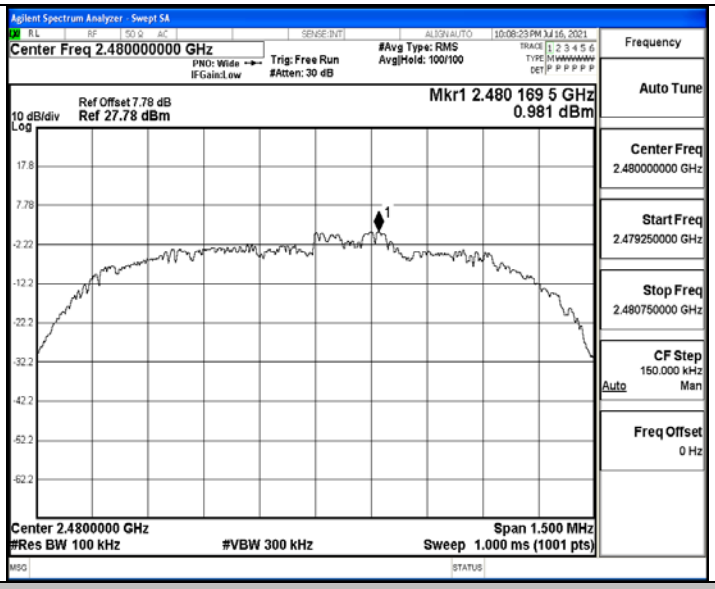


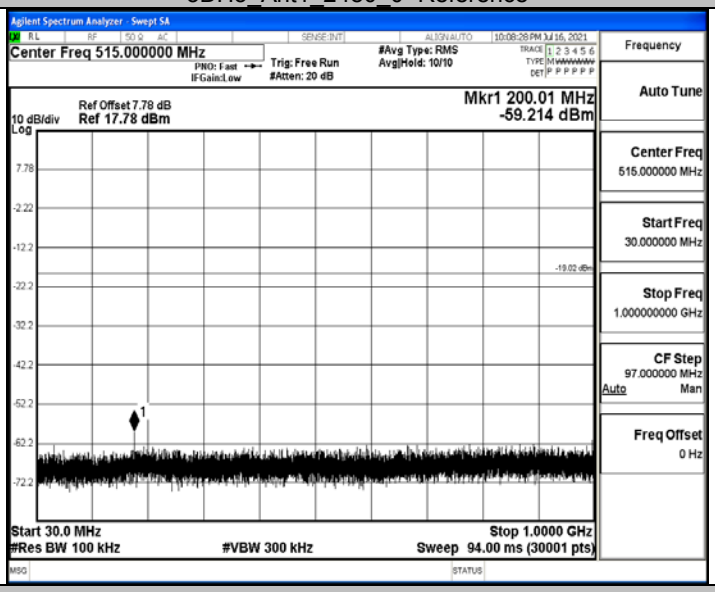
3DH5_Ant1_2441_30~1000



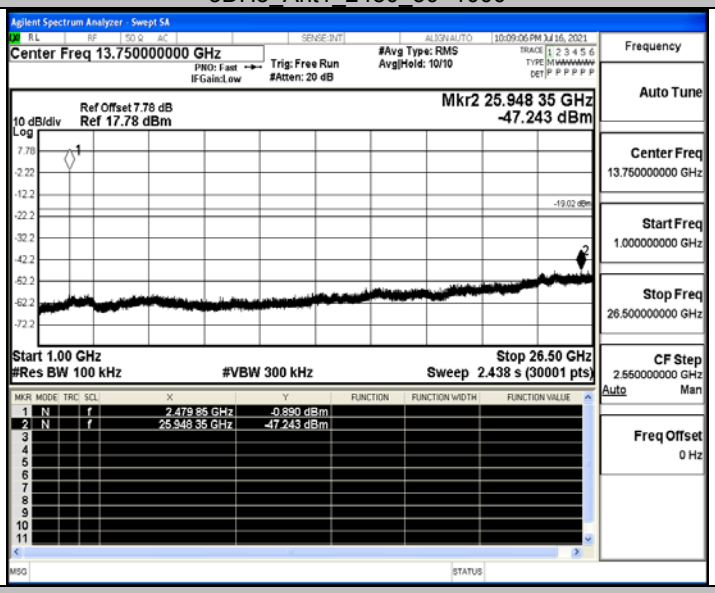
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



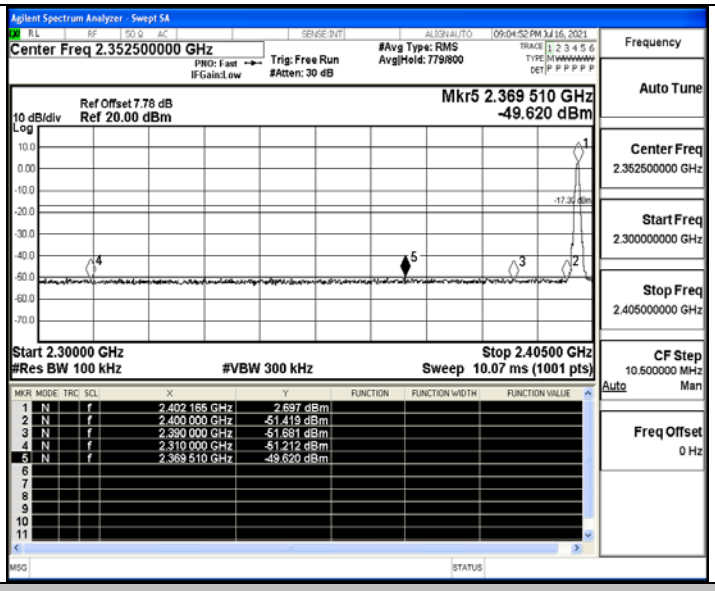
3DH5_Ant1_2480_1000~26500

A.7 Band-edge for RF Conducted Emissions

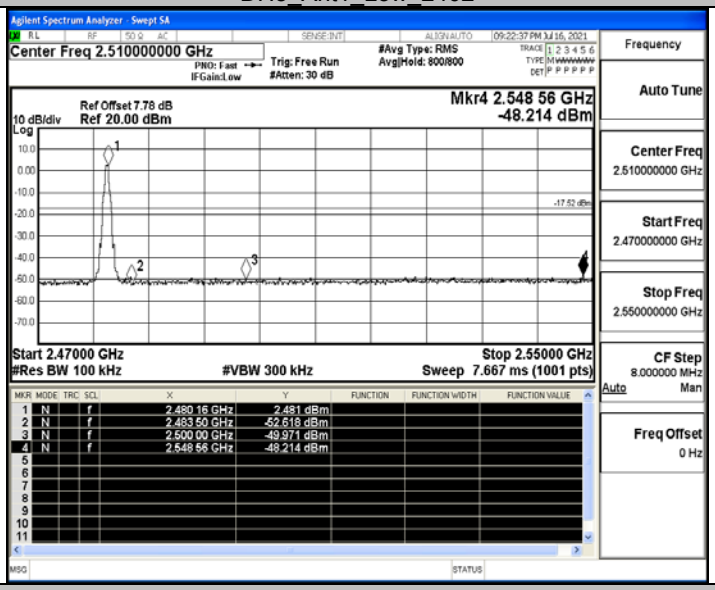
Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.70	-49.62	≤-17.3	PASS
		High	2480	2.48	-48.21	≤-17.52	PASS
		Low	Hop_2402	2.45	-49.56	≤-17.55	PASS
		High	Hop_2480	1.40	-48.52	≤-18.6	PASS
2DH5	Ant1	Low	2402	1.00	-49.49	≤-19	PASS
		High	2480	1.04	-48.3	≤-18.96	PASS
		Low	Hop_2402	-0.73	-49.41	≤-20.73	PASS
		High	Hop_2480	1.40	-48.78	≤-18.6	PASS
3DH5	Ant1	Low	2402	0.99	-49.2	≤-19.01	PASS
		High	2480	0.91	-48.6	≤-19.09	PASS
		Low	Hop_2402	-0.23	-49.95	≤-20.23	PASS
		High	Hop_2480	-0.87	-48.29	≤-20.87	PASS

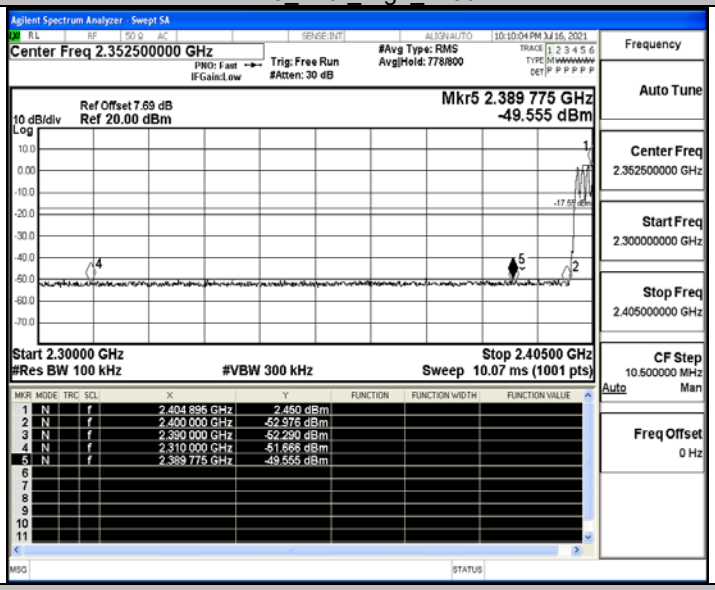
Test Graphs



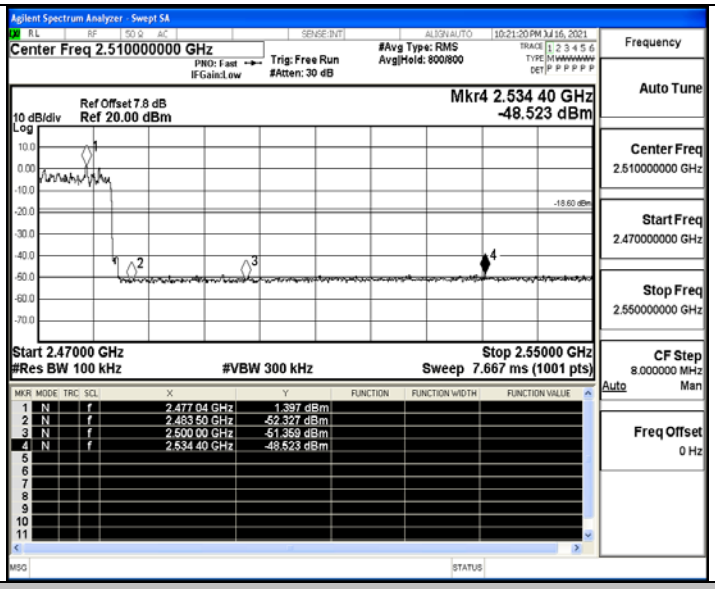
DH5_Ant1_Low_2402



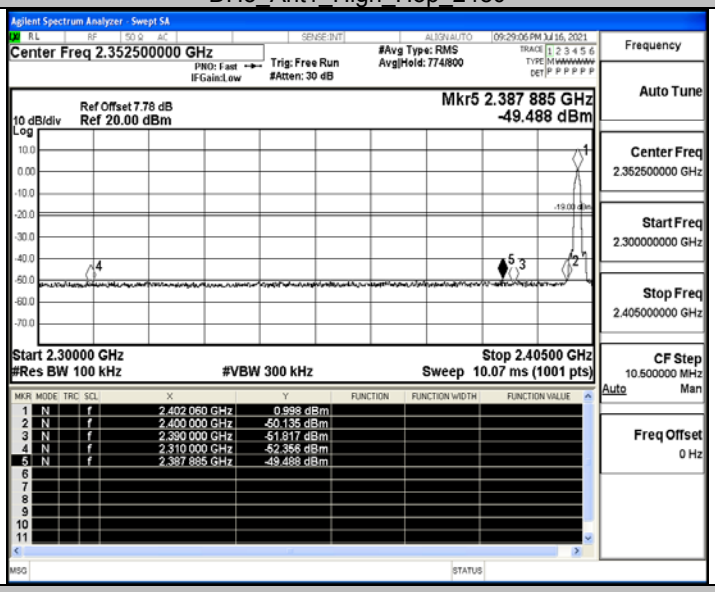
DH5_Ant1_High_2480



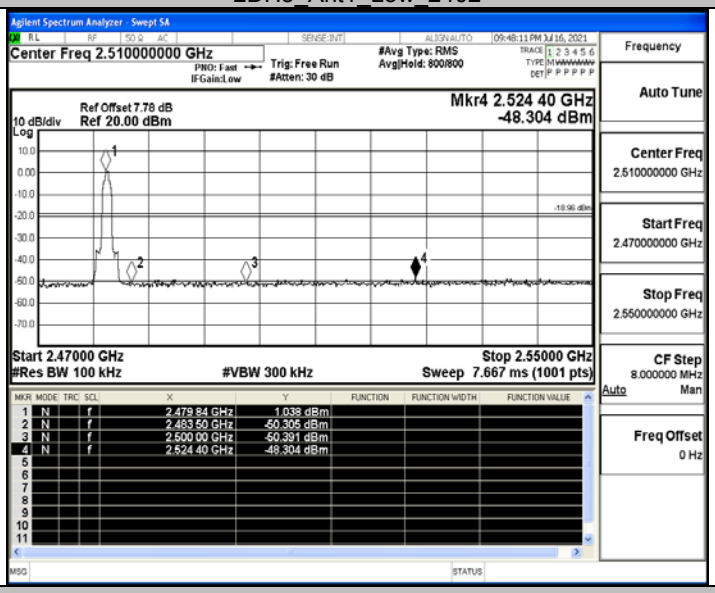
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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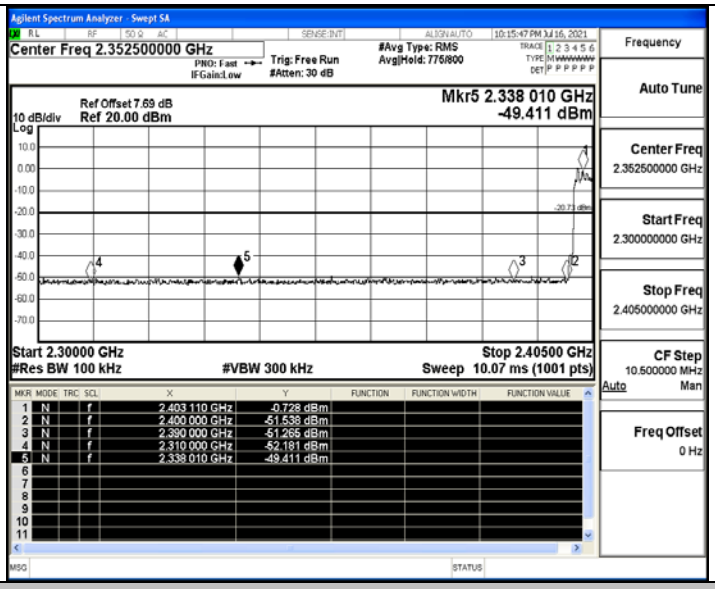

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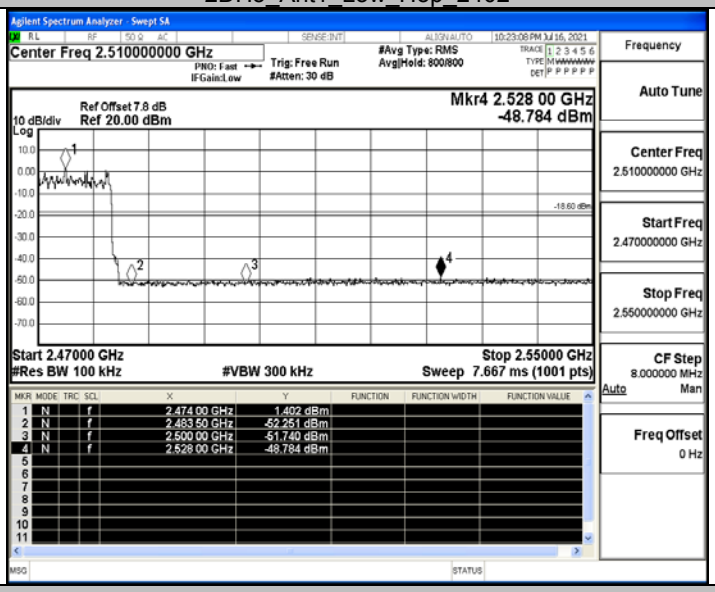

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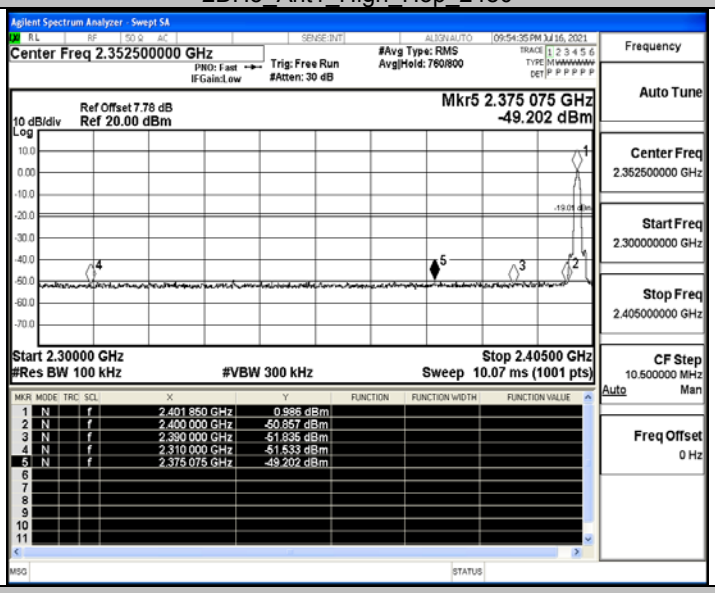
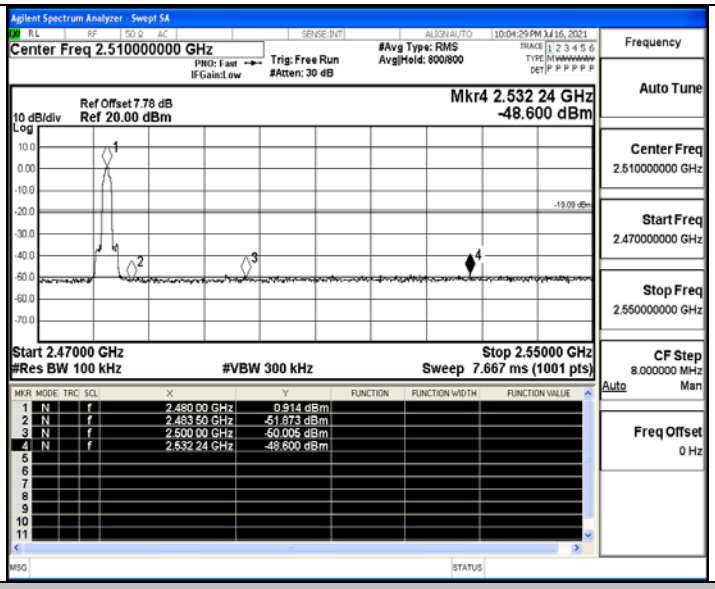
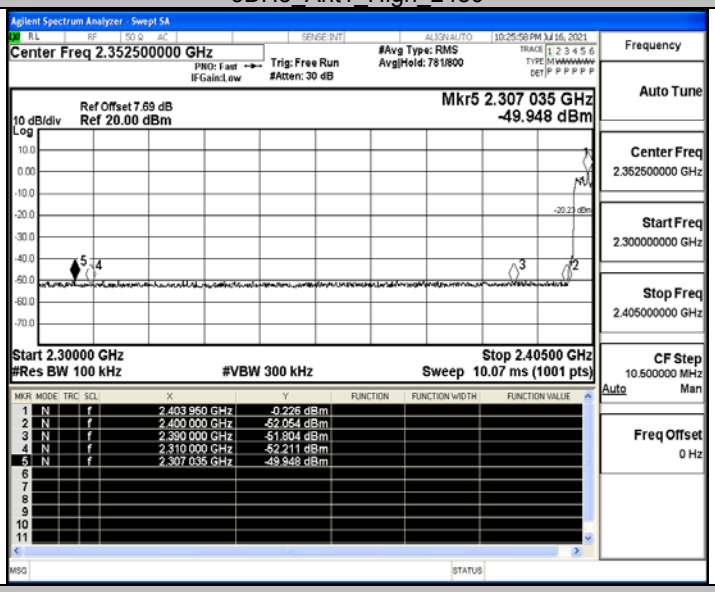


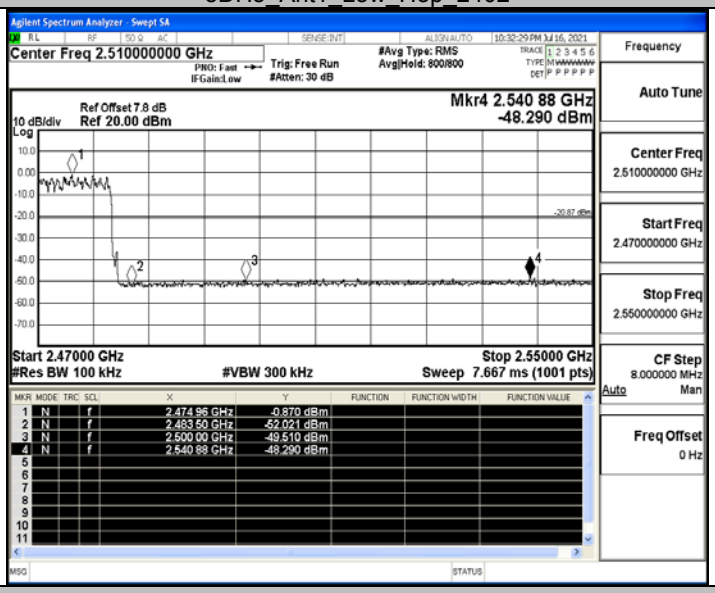
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

A.8 Restrict-band band-edge measurements

Test Result

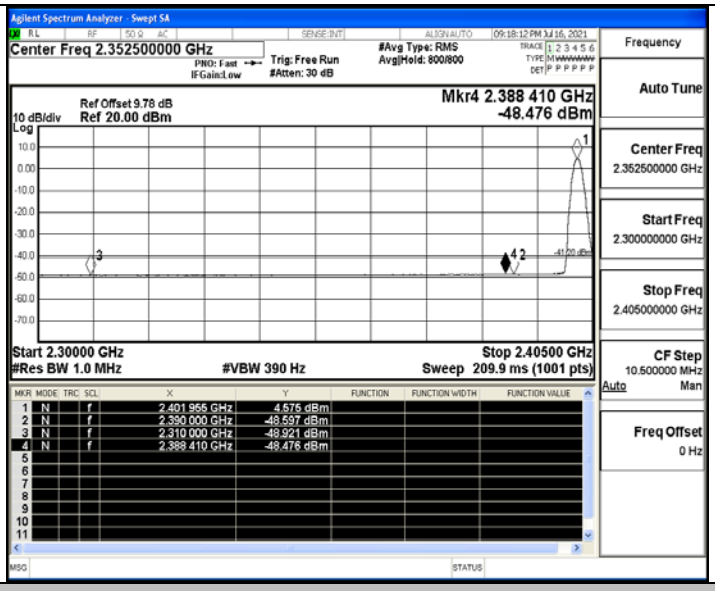
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.92	≤-41.20	46.28	≤54	PASS
				AV	2388.410	-48.48	≤-41.20	46.72	≤54	PASS
				AV	2390.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2310.000	-40.93	≤-21.20	54.27	≤74	PASS
				Peak	2377.070	-37.73	≤-21.20	57.47	≤74	PASS
				Peak	2390.000	-40.57	≤-21.20	54.63	≤74	PASS
		High	2480	AV	2483.500	-47.73	≤-41.20	47.47	≤54	PASS
				AV	2483.520	-47.73	≤-41.20	47.47	≤54	PASS
				AV	2500.000	-48.05	≤-41.20	47.15	≤54	PASS
				Peak	2483.500	-40.38	≤-21.20	54.82	≤74	PASS
				Peak	2495.440	-37.34	≤-21.20	57.86	≤74	PASS
				Peak	2500.000	-40.21	≤-21.20	54.99	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.93	≤-41.20	46.27	≤54	PASS
				AV	2388.095	-48.44	≤-41.20	46.76	≤54	PASS
				AV	2390.000	-48.6	≤-41.20	46.60	≤54	PASS
				Peak	2310.000	-40.3	≤-21.20	54.90	≤74	PASS
				Peak	2348.720	-38.41	≤-21.20	56.79	≤74	PASS
				Peak	2390.000	-39.68	≤-21.20	55.52	≤74	PASS
		High	2480	AV	2483.500	-47.67	≤-41.20	47.53	≤54	PASS
				AV	2483.520	-47.67	≤-41.20	47.53	≤54	PASS
				AV	2500.000	-48.05	≤-41.20	47.15	≤54	PASS
				Peak	2483.500	-39.72	≤-21.20	55.48	≤74	PASS
				Peak	2489.840	-38.33	≤-21.20	56.87	≤74	PASS
				Peak	2500.000	-39.49	≤-21.20	55.71	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.98	≤-41.20	46.22	≤54	PASS
				AV	2384.945	-48.5	≤-41.20	46.70	≤54	PASS
				AV	2390.000	-48.61	≤-41.20	46.59	≤54	PASS
				Peak	2310.000	-40.8	≤-21.20	54.40	≤74	PASS
				Peak	2364.995	-37.67	≤-21.20	57.53	≤74	PASS
				Peak	2390.000	-40.02	≤-21.20	55.18	≤74	PASS
		High	2480	AV	2483.500	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2483.520	-47.68	≤-41.20	47.52	≤54	PASS
				AV	2500.000	-47.99	≤-41.20	47.21	≤54	PASS
				Peak	2483.500	-39.06	≤-21.20	56.14	≤74	PASS

				Peak	2484.320	-37.6	≤-21.20	57.60	≤74	PASS
				Peak	2500.000	-38.5	≤-21.20	56.70	≤74	PASS

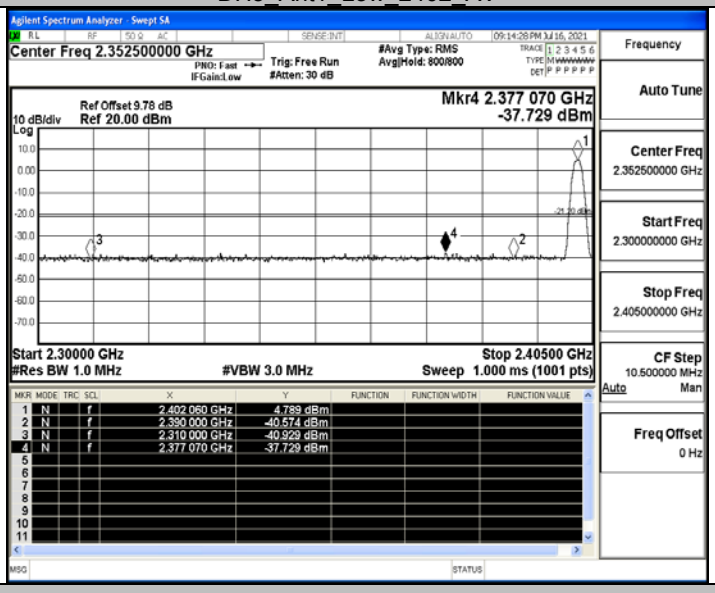
Note：

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.

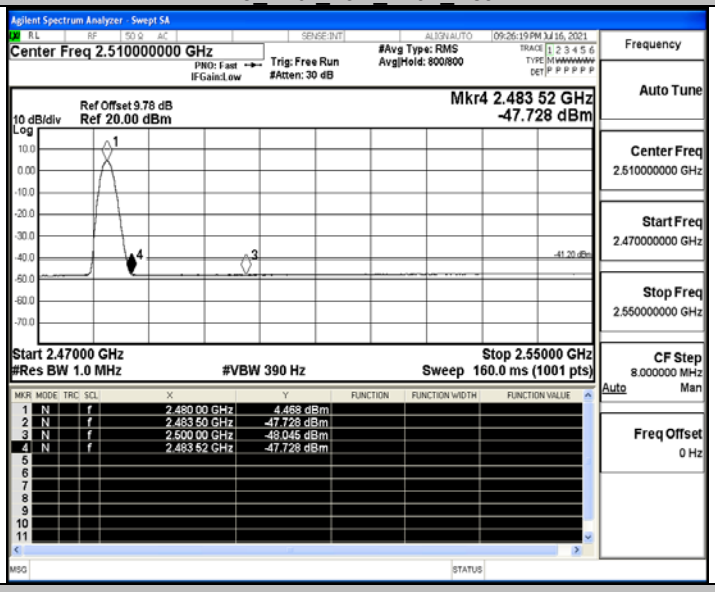
Test Graphs



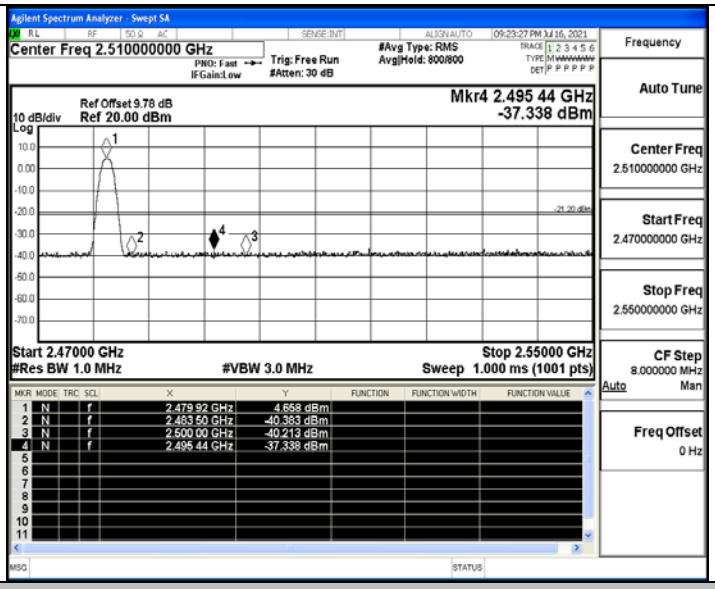
DH5_Ant1_Low_2402_AV



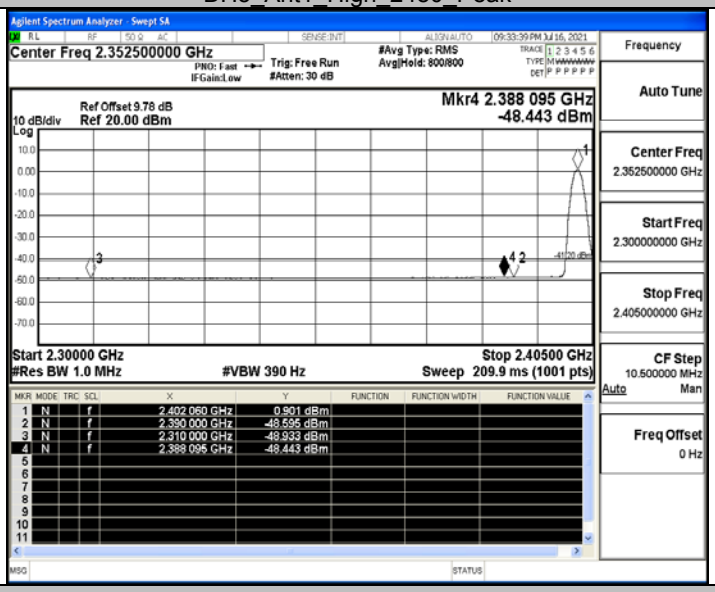
DH5_Ant1_Low_2402_Peak



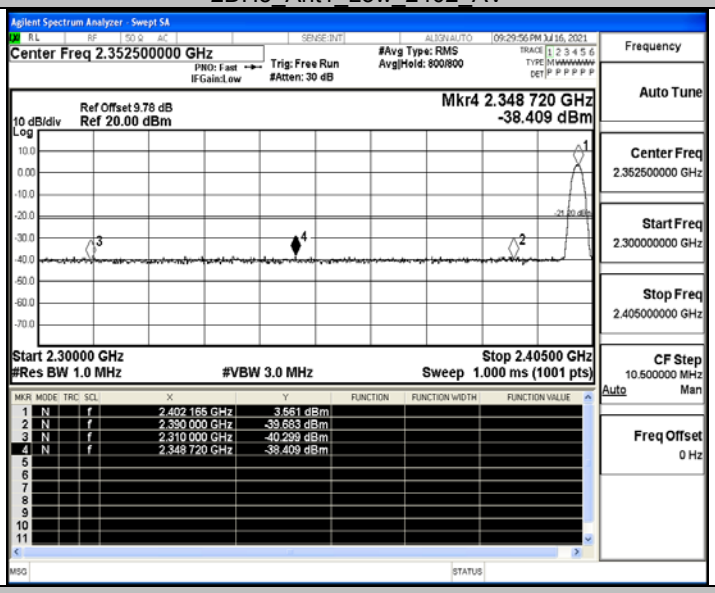
DH5_Ant1_High_2480_AV



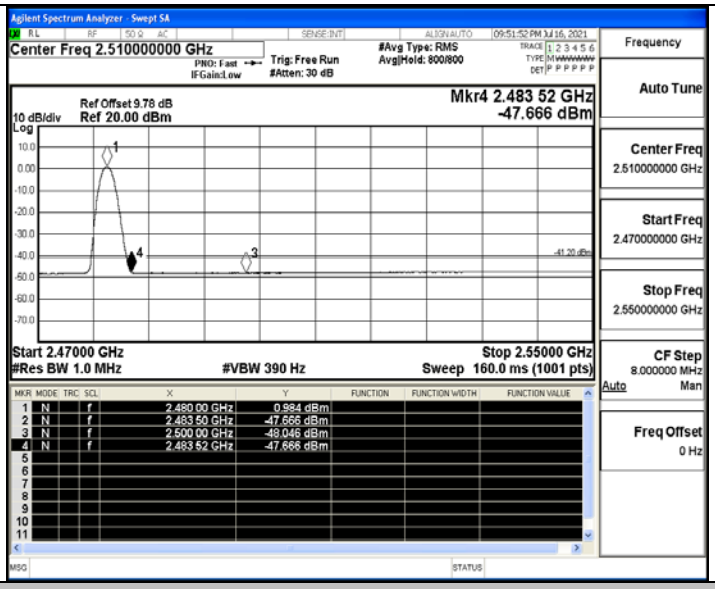
DH5_Ant1_High_2480_Peak



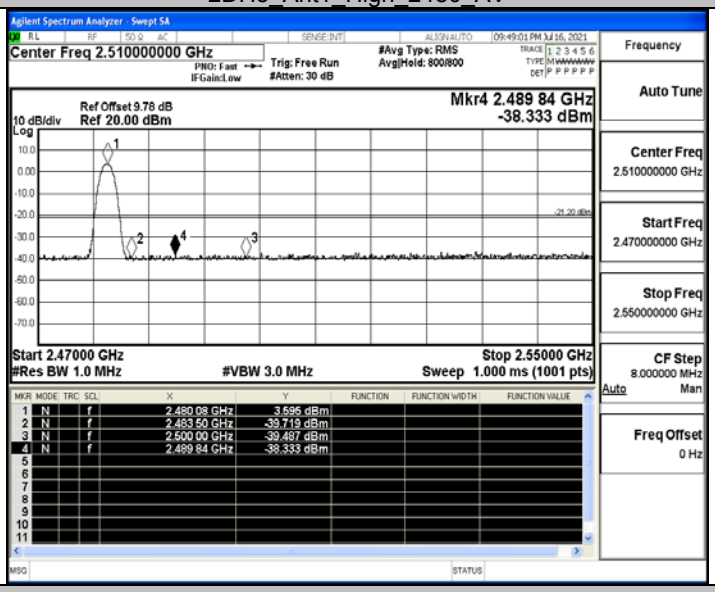
2DH5_Ant1_Low_2402_AV



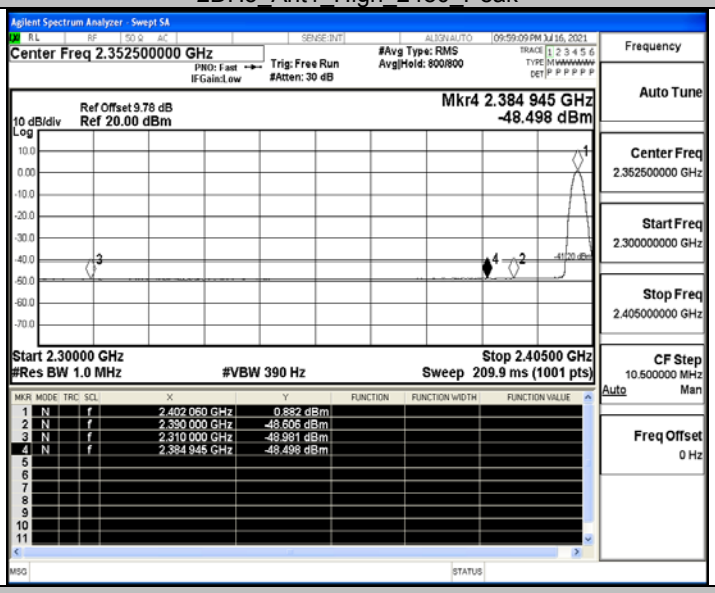
2DH5_Ant1_Low_2402_Peak



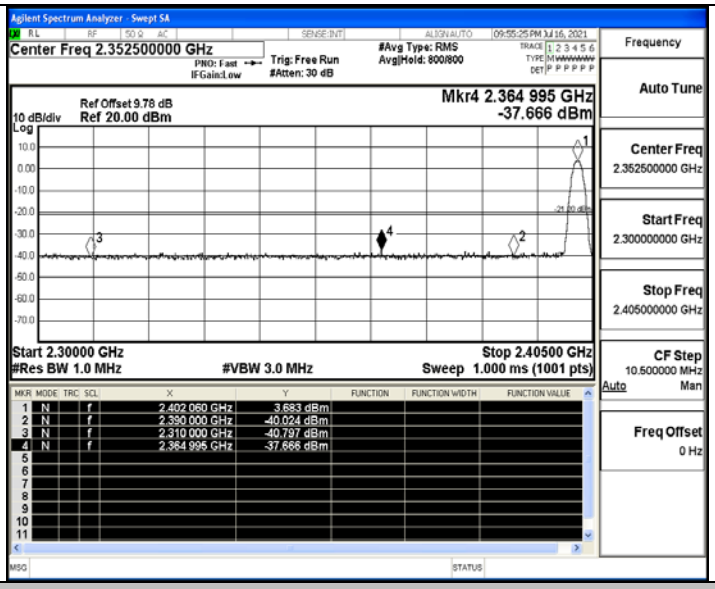
2DH5_Ant1_High_2480_AV



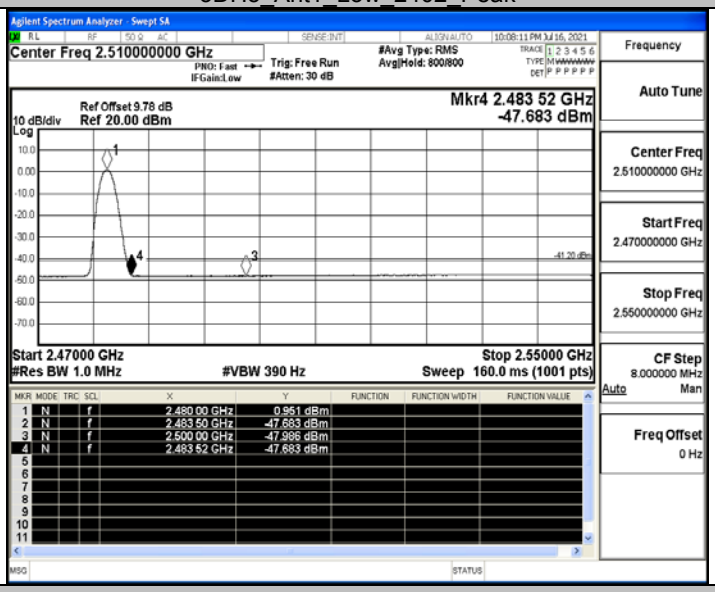
2DH5_Ant1_High_2480_Peak



3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



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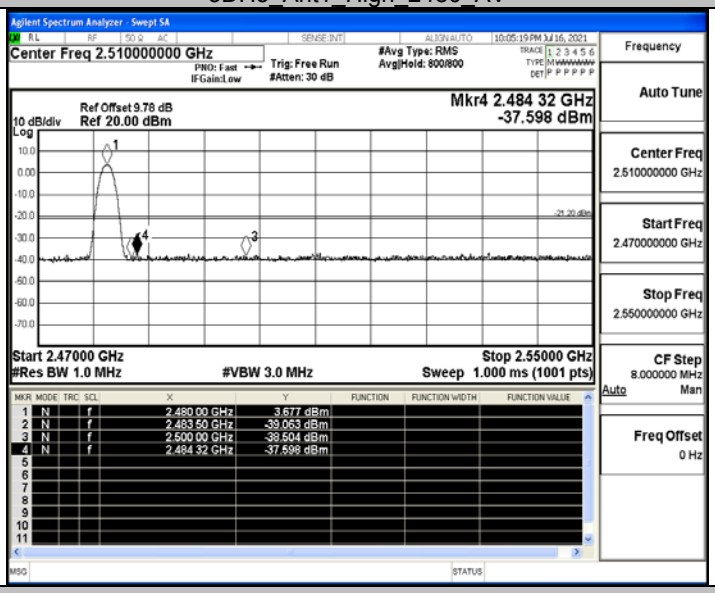

3DH5_Ant1_High_2480_Peak