

Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Mobile phone

Trade Mark: PCD

Test Model: P40

FCC ID: 2ALJJP40

Environmental Conditions

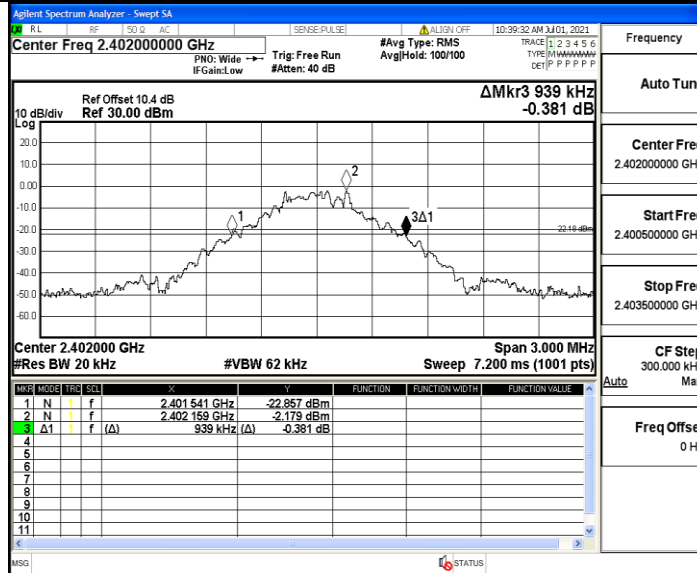
Temperature:	23.8℃
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

A.1 20 dB Bandwidth

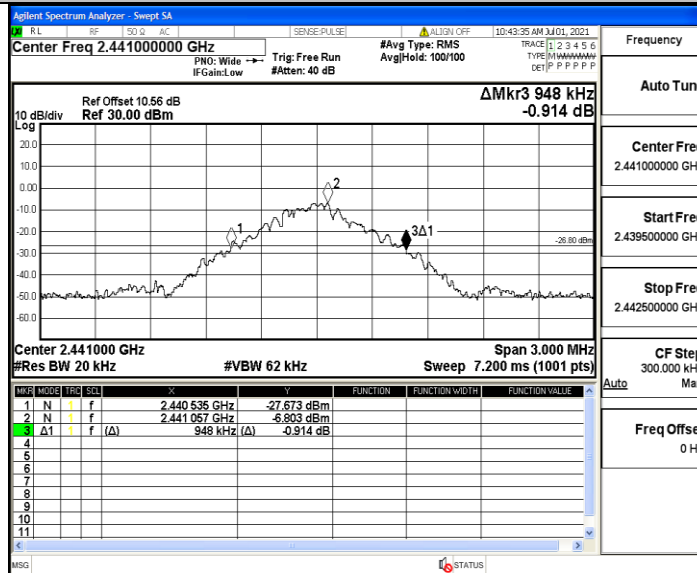
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.541	2402.480	Not Specified	PASS
		2441	0.948	2440.535	2441.483	Not Specified	PASS
		2480	0.942	2479.535	2480.477	Not Specified	PASS
2DH5	Ant1	2402	1.320	2401.337	2402.657	Not Specified	PASS
		2441	1.311	2440.343	2441.654	Not Specified	PASS
		2480	1.317	2479.334	2480.651	Not Specified	PASS
3DH5	Ant1	2402	1.275	2401.352	2402.627	Not Specified	PASS
		2441	1.293	2440.346	2441.639	Not Specified	PASS
		2480	1.278	2479.346	2480.624	Not Specified	PASS

Test Graph

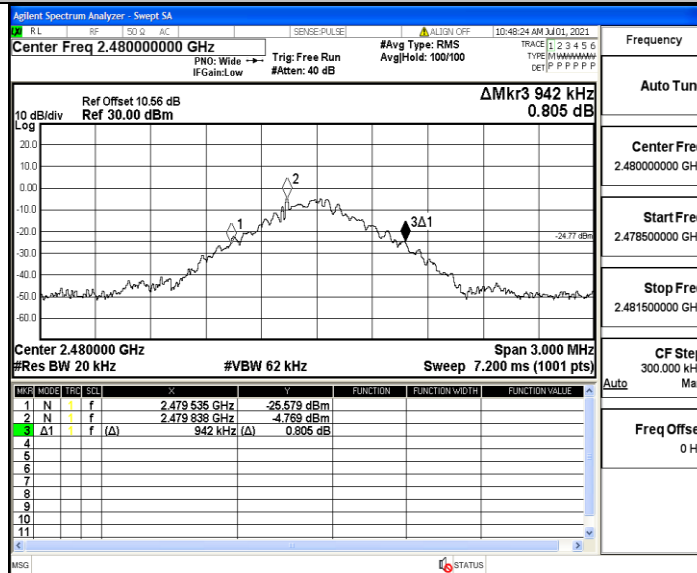
DH5_Ant1_2402



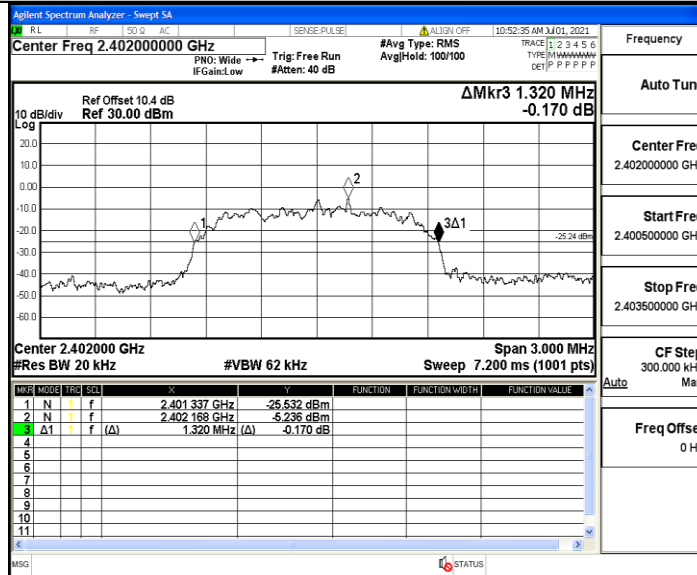
DH5_Ant1_2441



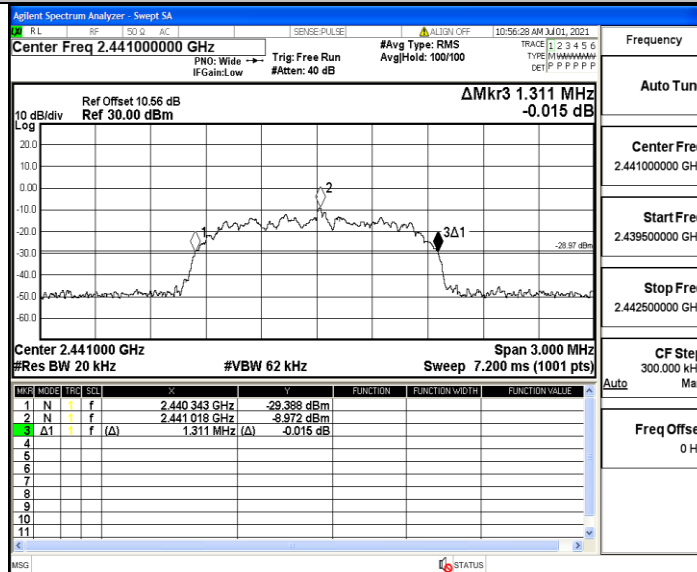
DH5_Ant1_2480



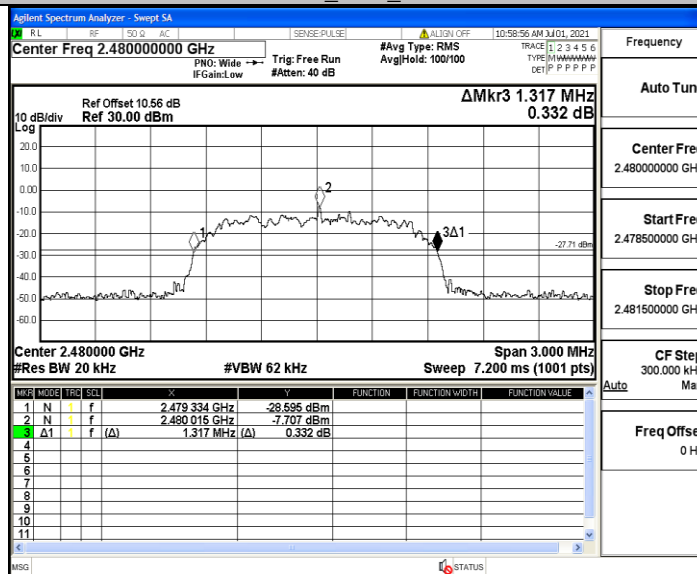
2DH5_Ant1_2402



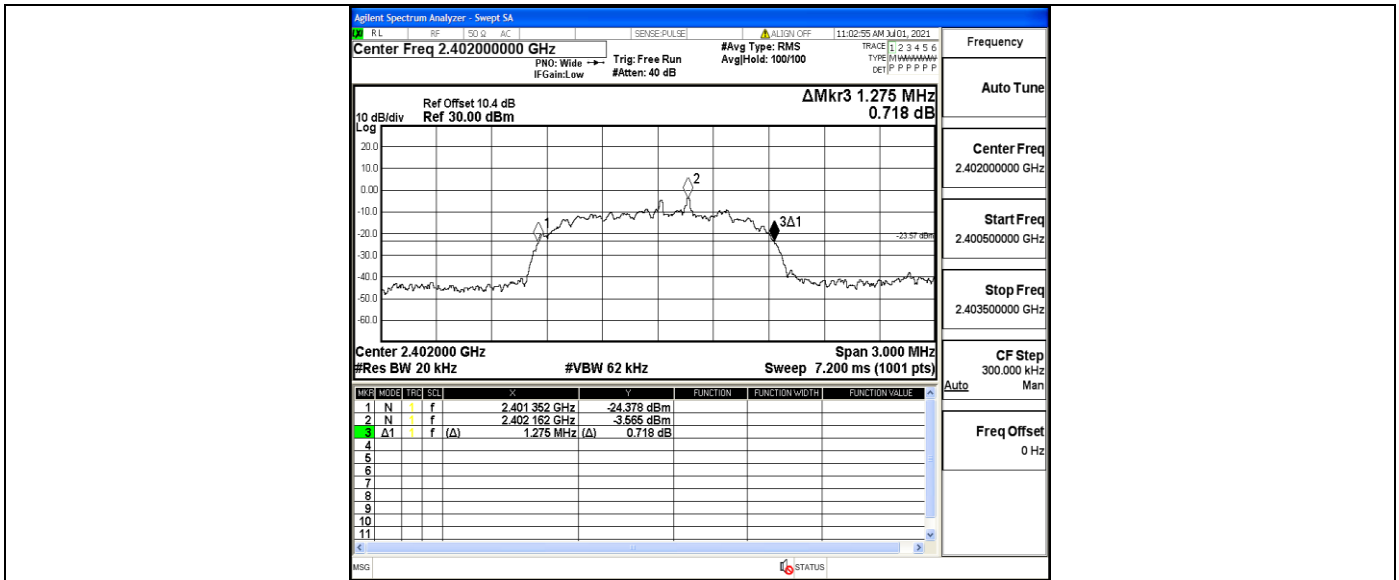
2DH5_Ant1_2441



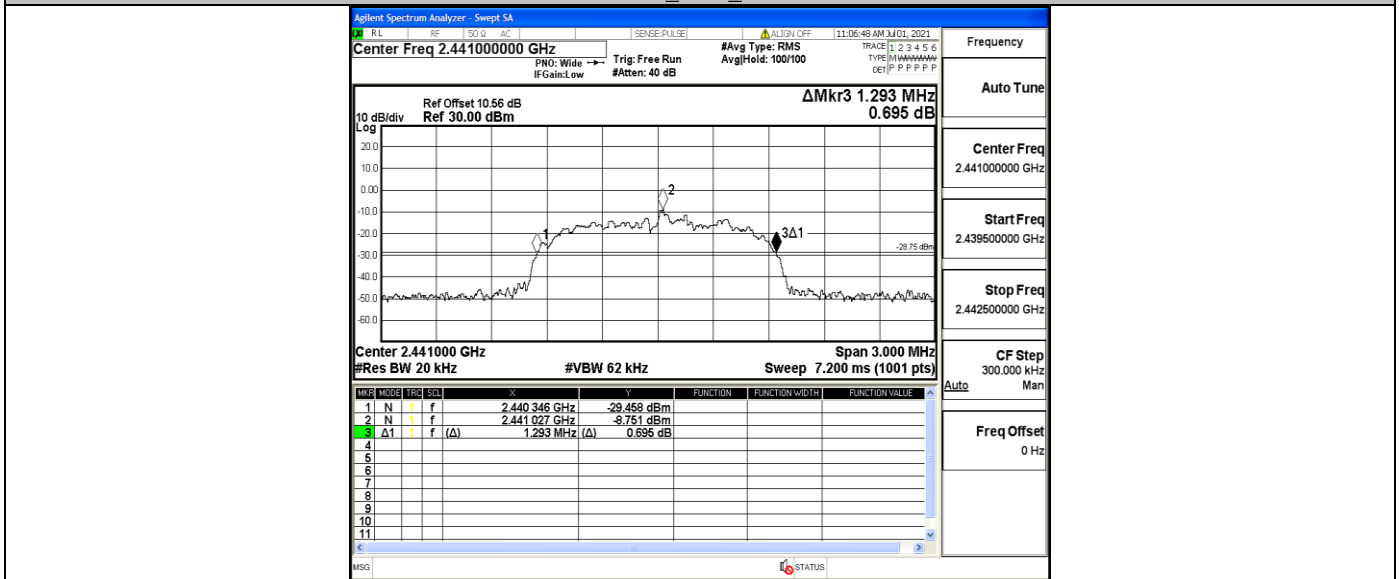
2DH5_Ant1_2480



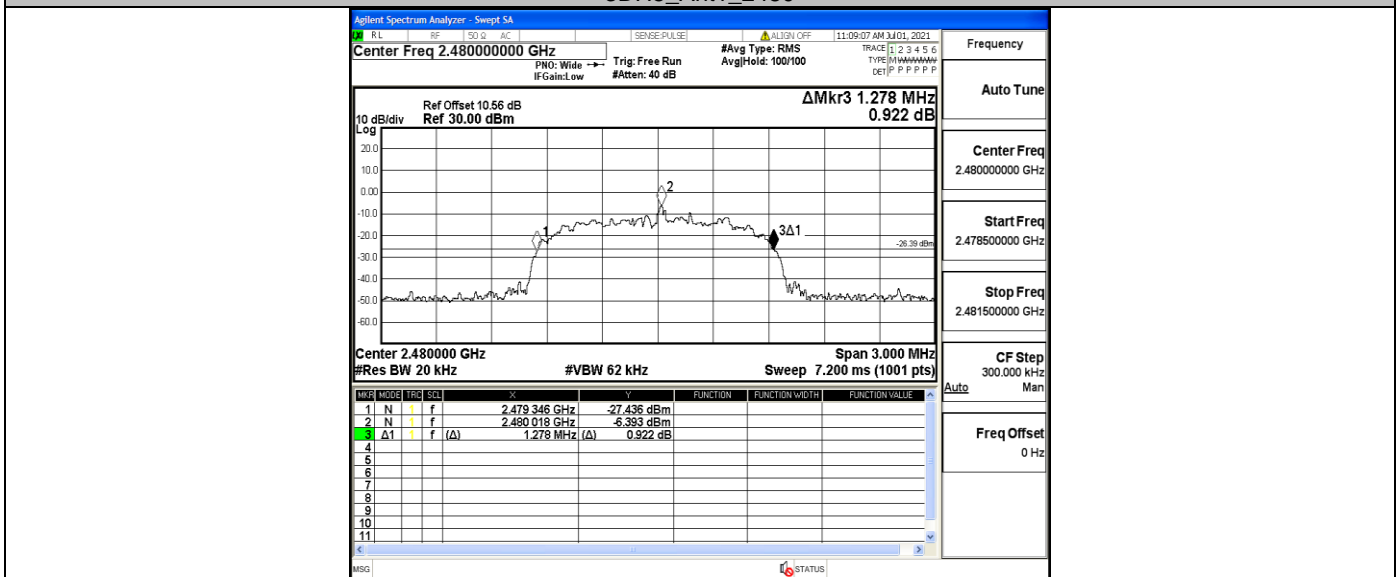
3DH5_Ant1_2402



3DH5_Ant1_2441



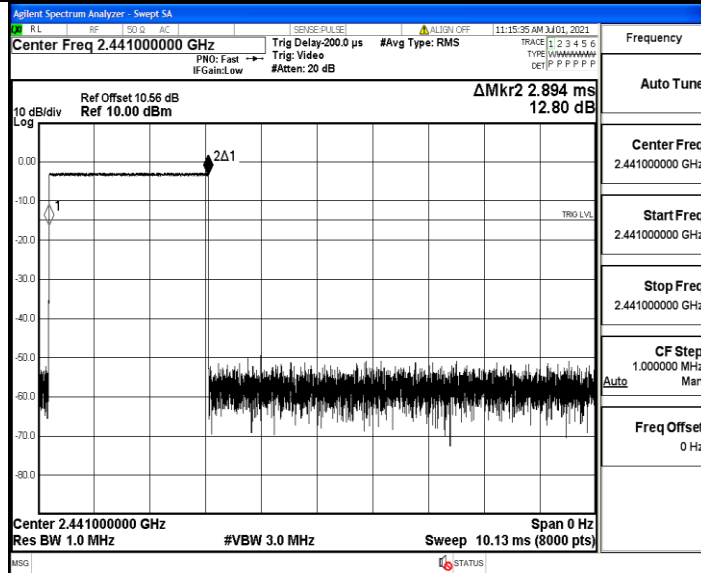
3DH5_Ant1_2480



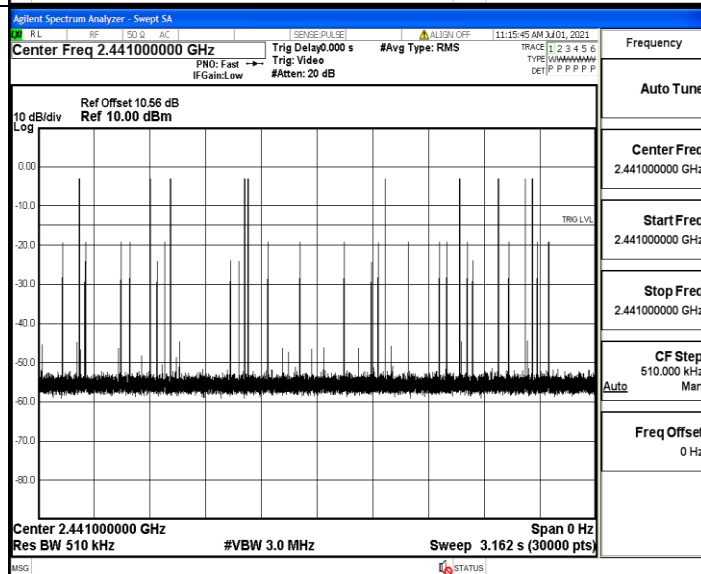
A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	110	0.318	<=0.4	PASS
2DH5	Ant1	Hop	2.88	80	0.231	<=0.4	PASS
3DH5	Ant1	Hop	2.88	130	0.375	<=0.4	PASS

DH5_Ant1_Hop

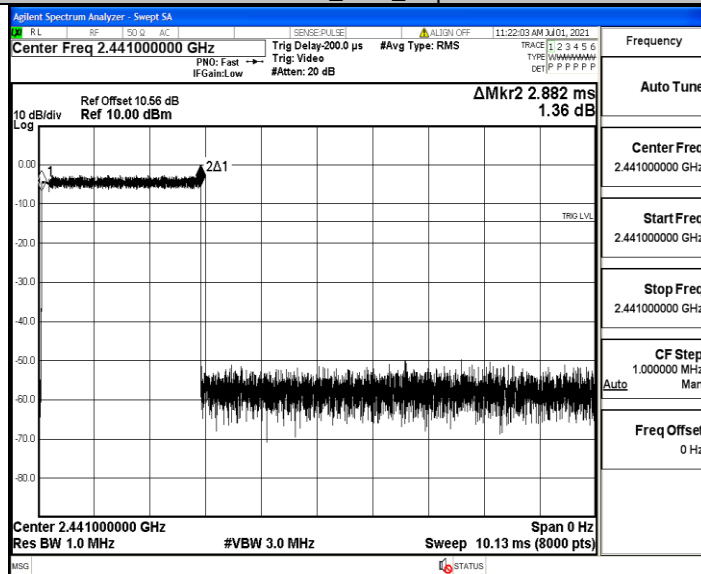


Frequency	Auto Tune
Center Freq	2.441000000 GHz
Start Freq	2.441000000 GHz
Stop Freq	2.441000000 GHz
CF Step	1.000000 MHz Auto Man
Freq Offset	0 Hz

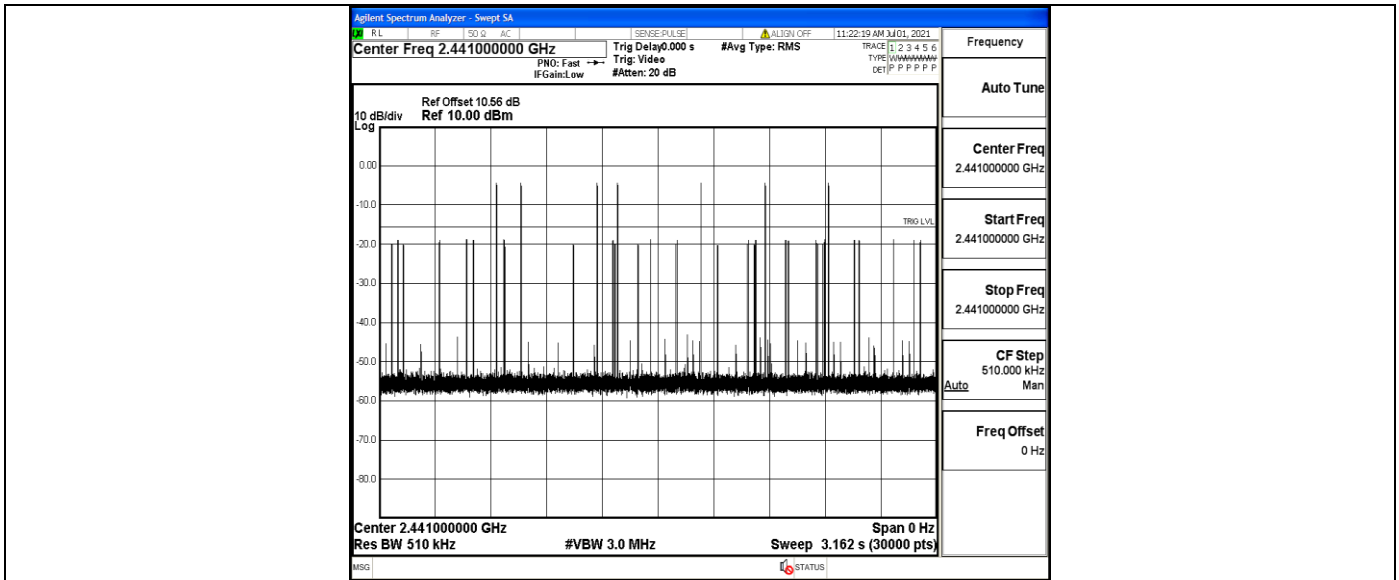


Frequency	Auto Tune
Center Freq	2.441000000 GHz
Start Freq	2.441000000 GHz
Stop Freq	2.441000000 GHz
CF Step	510.000 kHz Auto Man
Freq Offset	0 Hz

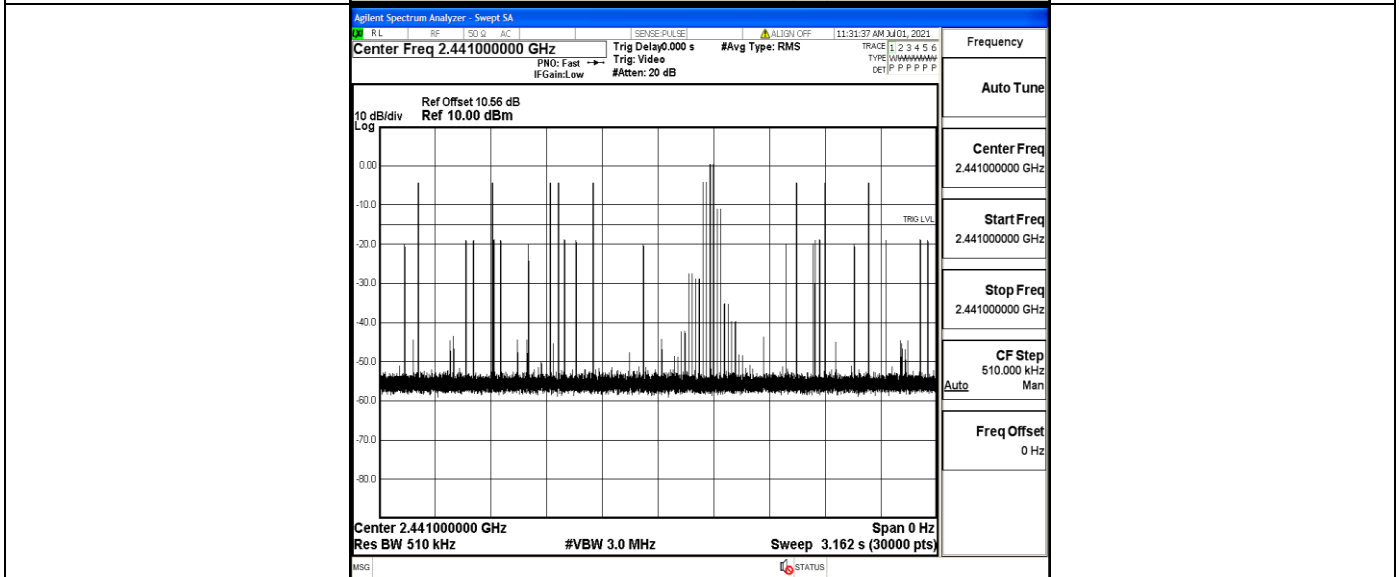
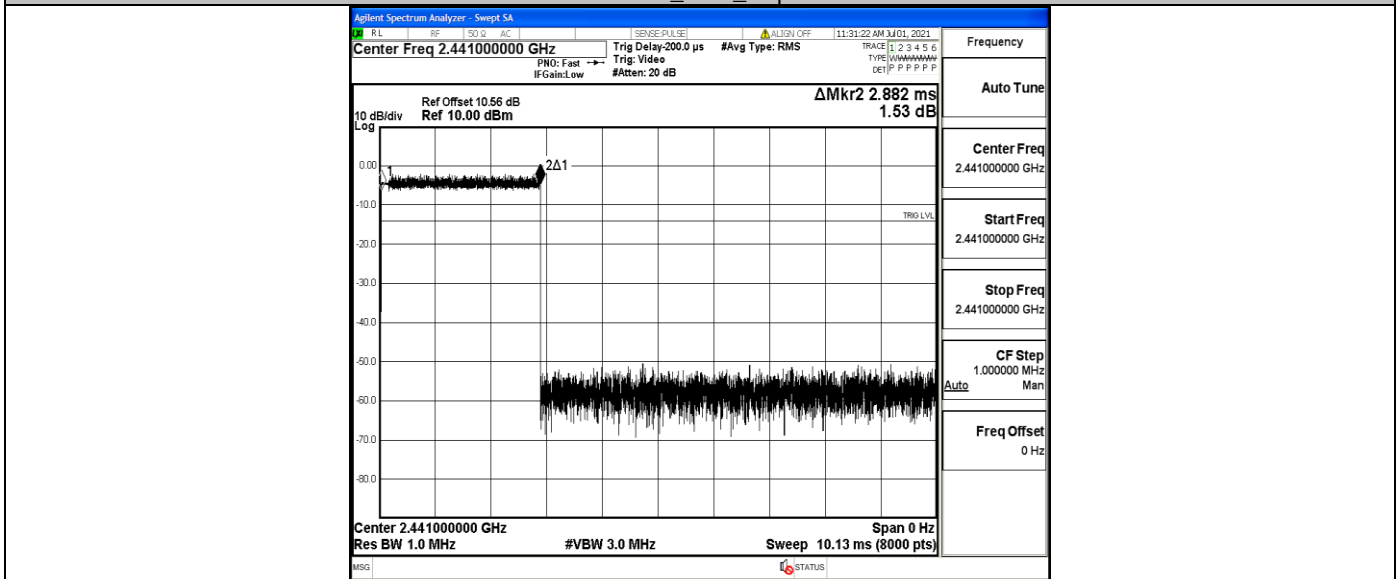
2DH5_Ant1_Hop



Frequency	Auto Tune
Center Freq	2.441000000 GHz
Start Freq	2.441000000 GHz
Stop Freq	2.441000000 GHz
CF Step	1.000000 MHz Auto Man
Freq Offset	0 Hz



3DH5_Ant1_Hop

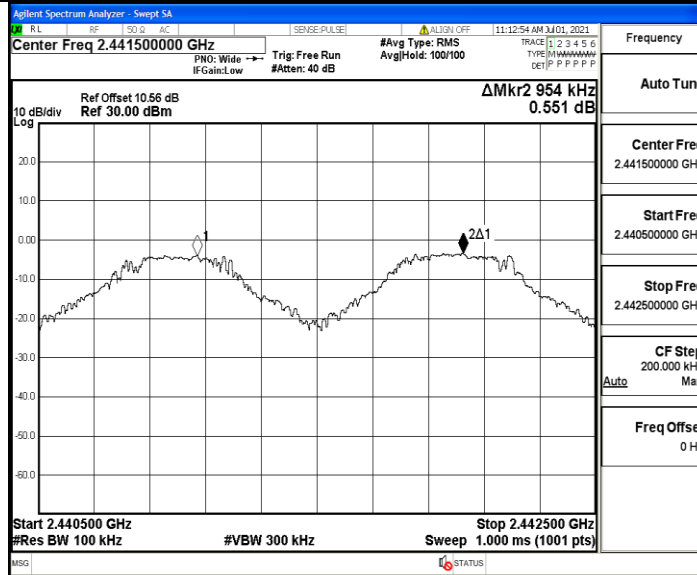


A.3 Carrier Frequency Separation

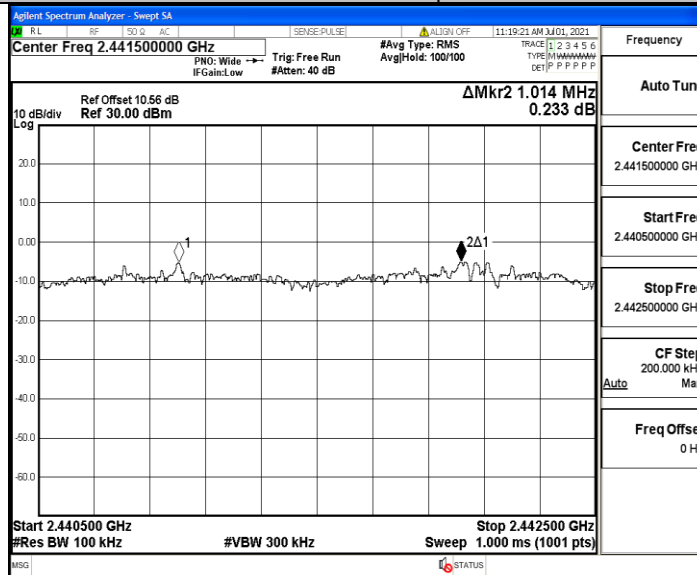
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.954	≥ 0.948	PASS
2DH5	Ant1	Hop	1.014	≥ 0.880	PASS
3DH5	Ant1	Hop	1.008	≥ 0.862	PASS

Test Graph

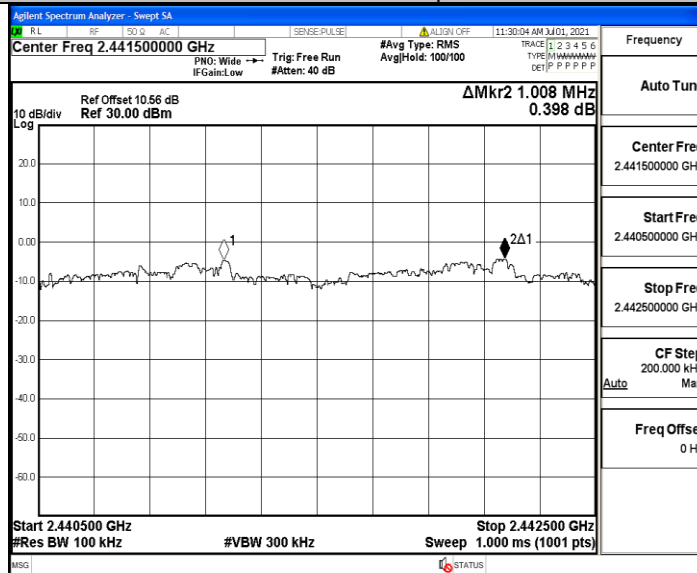
DH5_Ant1_Hop



2DH5_Ant1_Hop



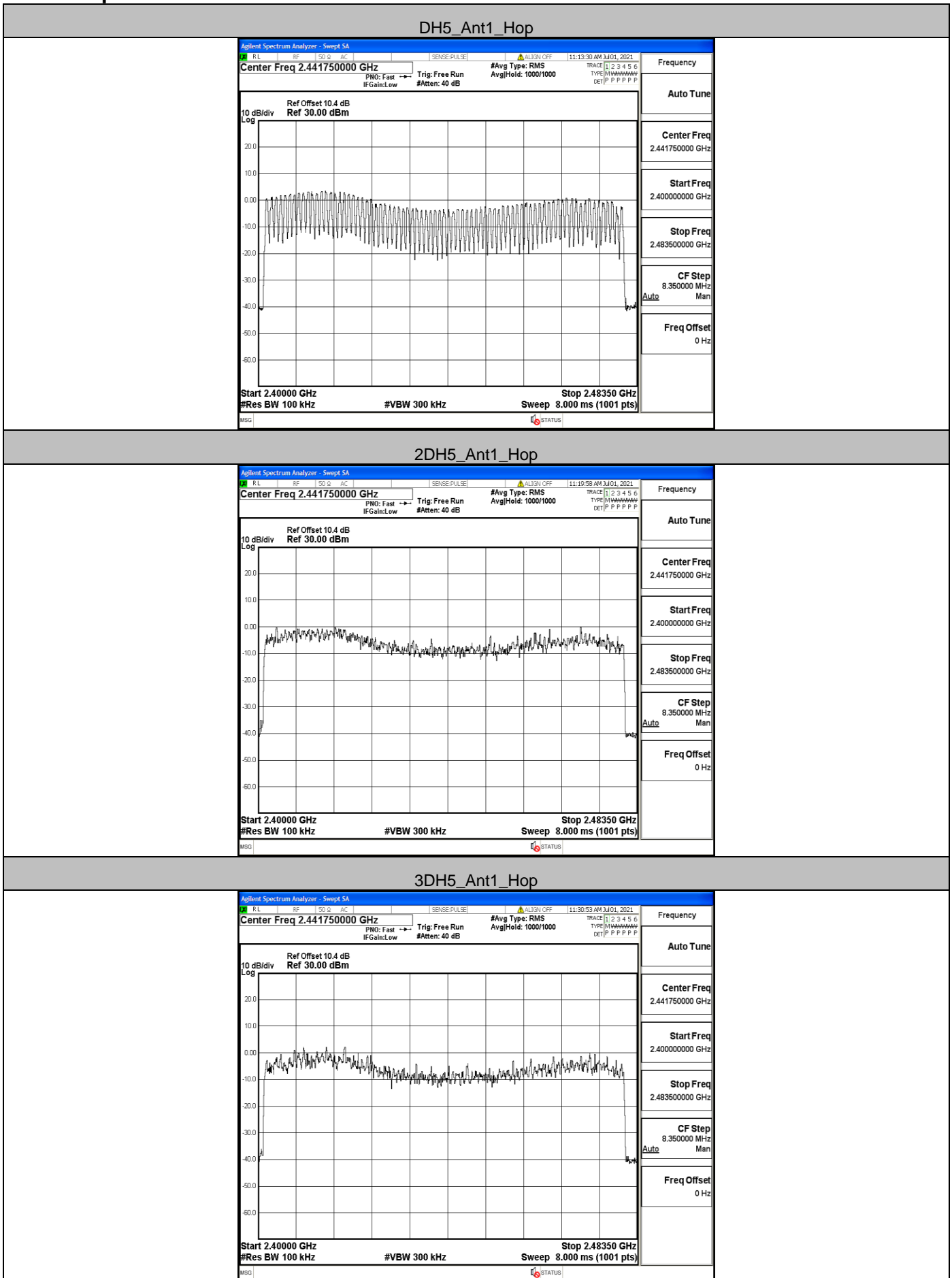
3DH5_Ant1_Hop



A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel[N]	Limit[N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Test Graph

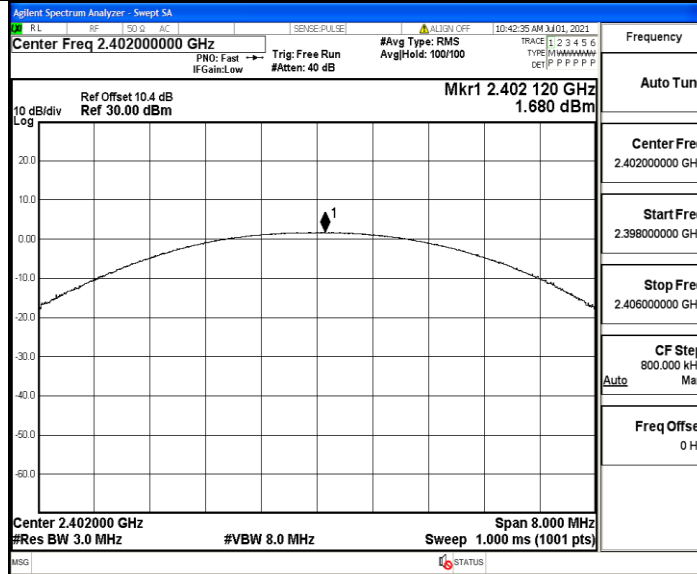


A.5 Conducted Peak Output Power

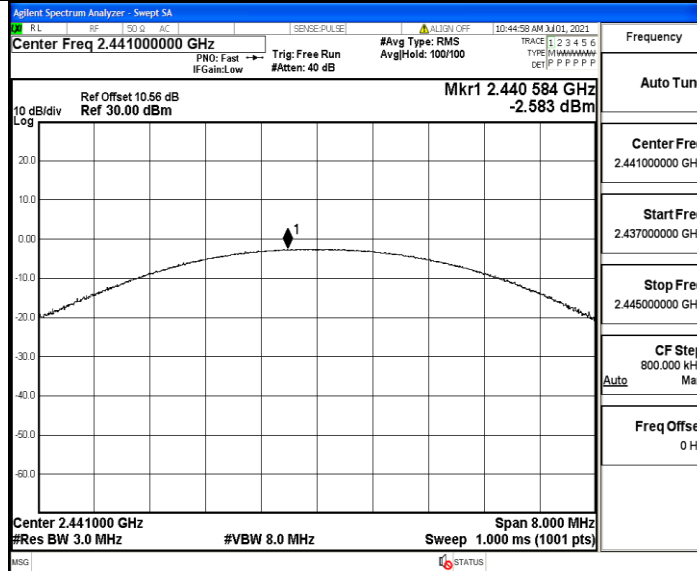
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.68	30	PASS
GFSK	MCH	-2.58	30	PASS
GFSK	HCH	-0.63	30	PASS
$\pi/4$ DQPSK	LCH	1.77	21	PASS
$\pi/4$ DQPSK	MCH	-1.82	21	PASS
$\pi/4$ DQPSK	HCH	-0.06	21	PASS
8DPSK	LCH	2.04	21	PASS
8DPSK	MCH	-1.5	21	PASS
8DPSK	HCH	0.4	21	PASS

Test Graph

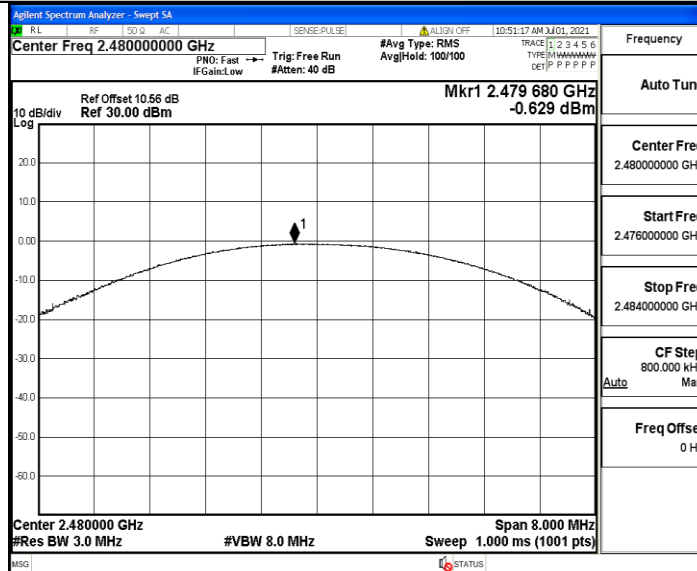
DH5_Ant1_2402



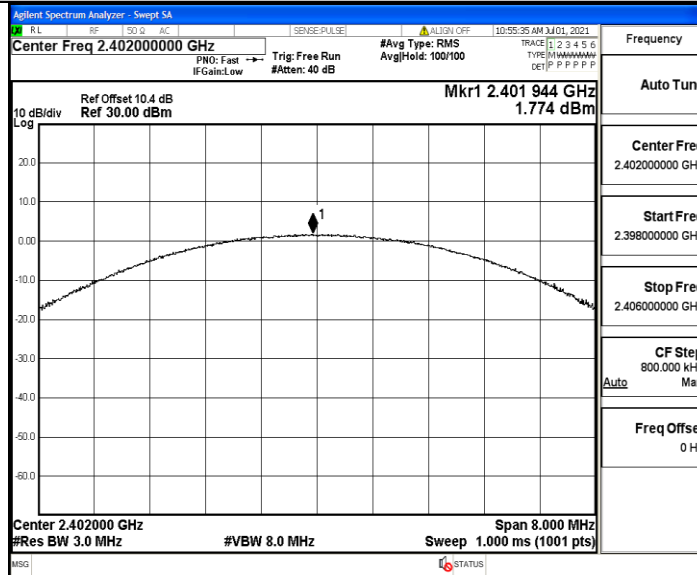
DH5_Ant1_2441



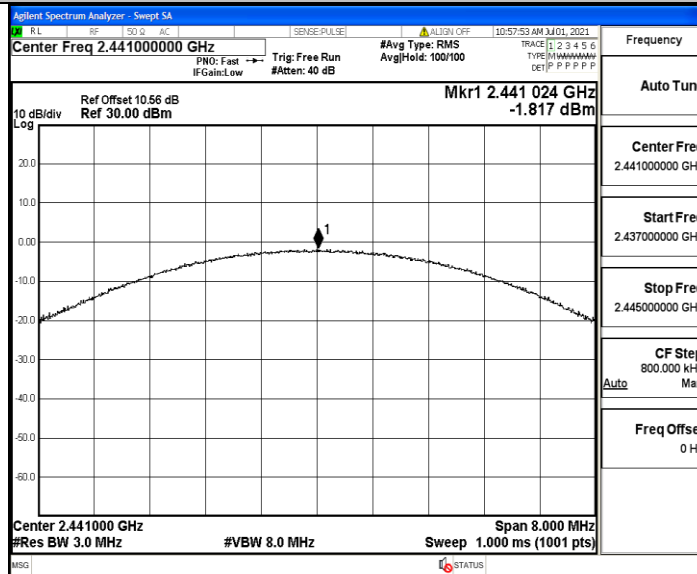
DH5_Ant1_2480



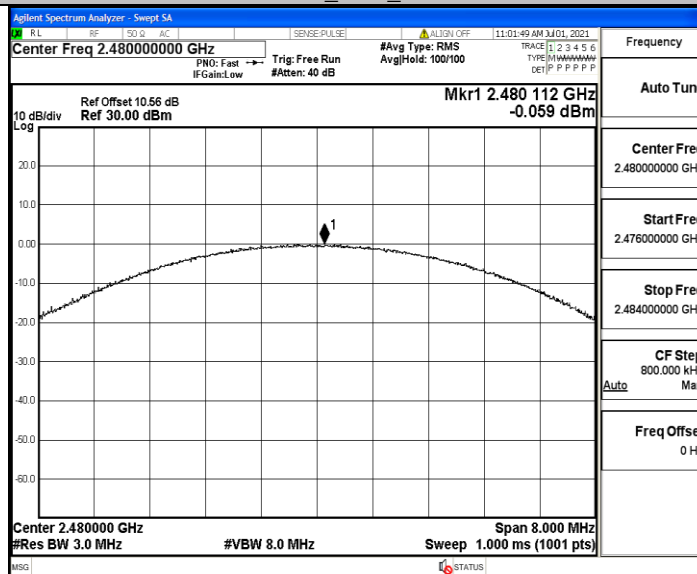
2DH5_Ant1_2402



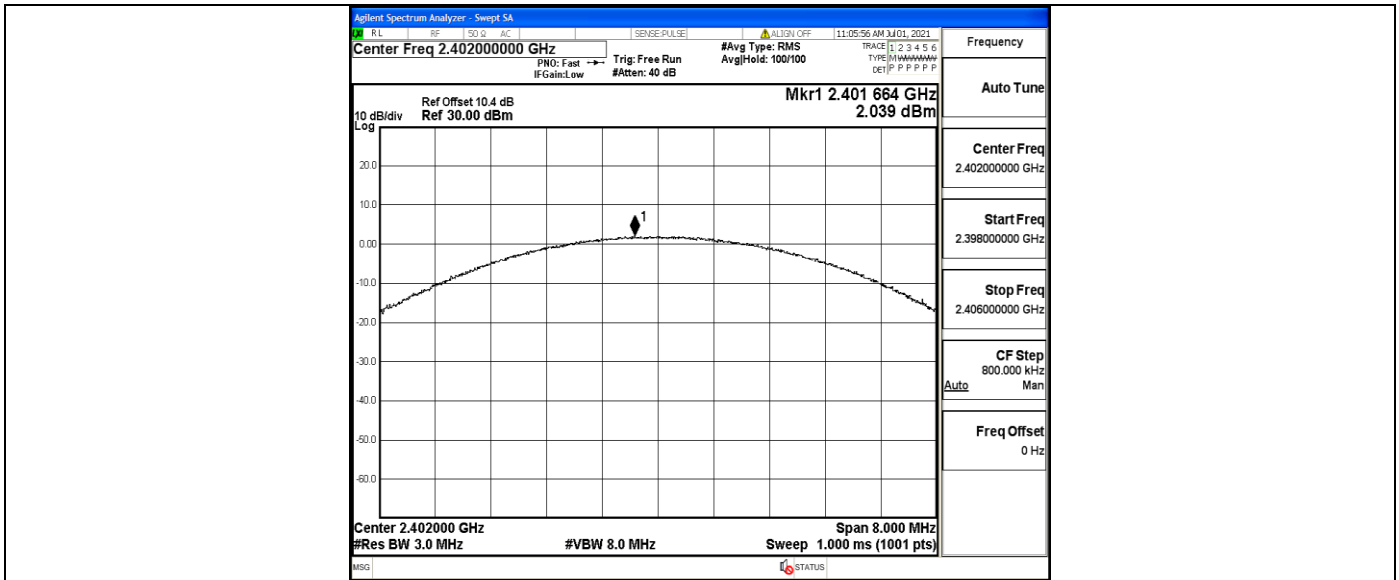
2DH5_Ant1_2441



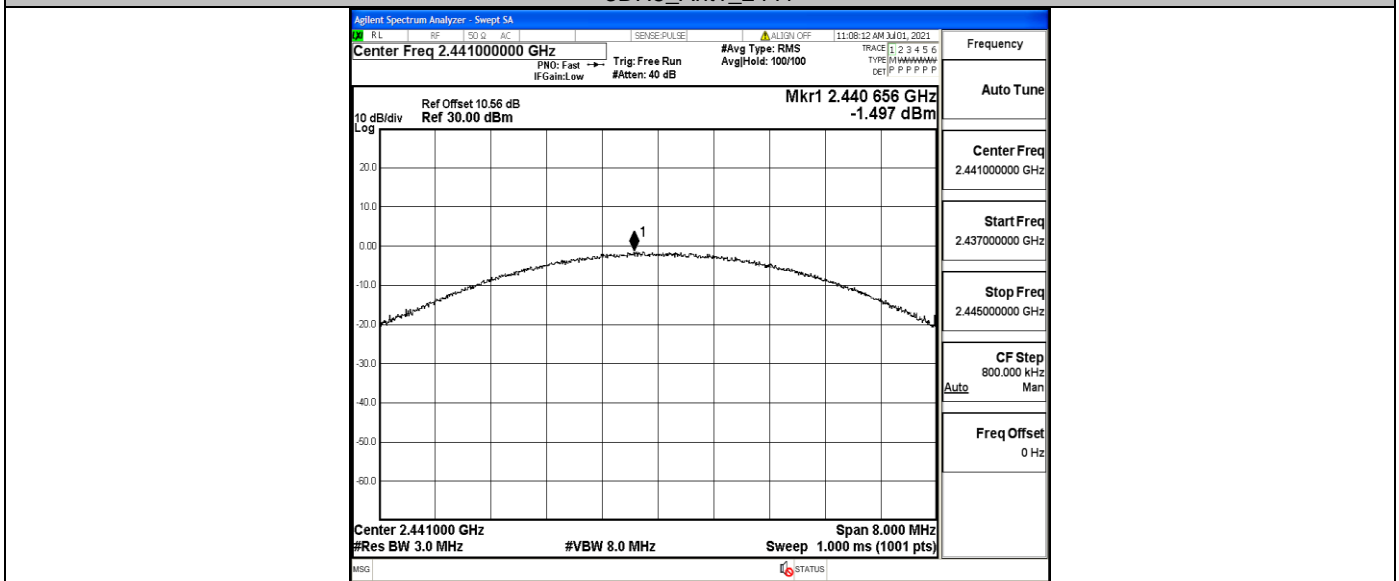
2DH5_Ant1_2480



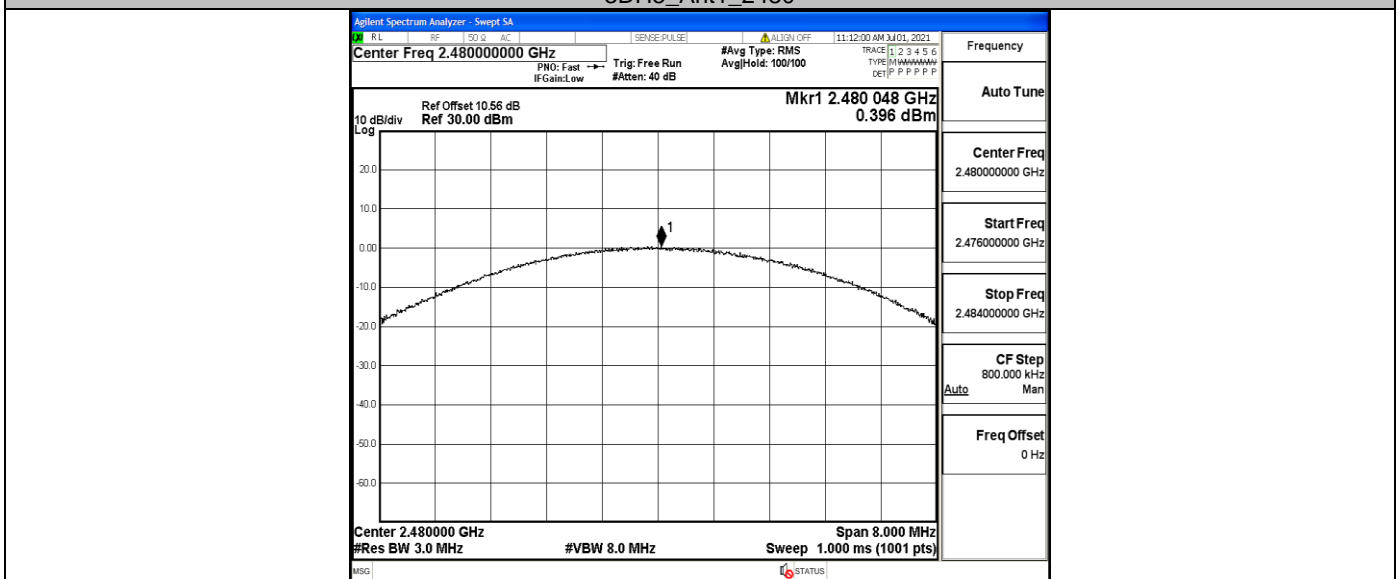
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

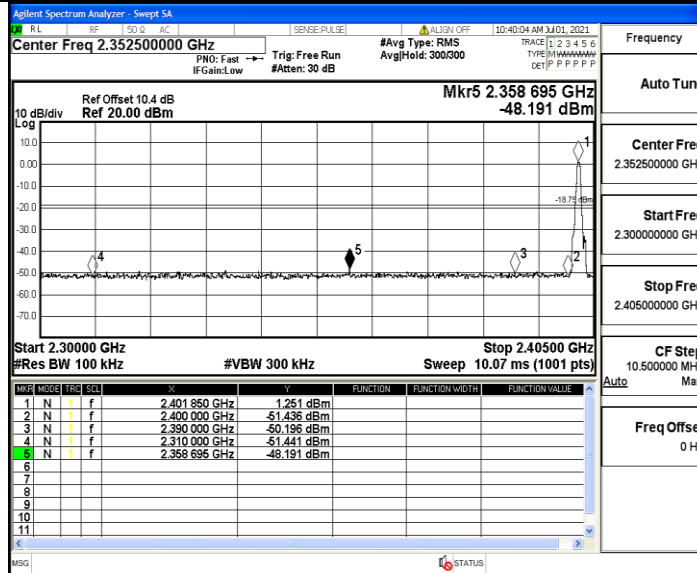


A.6 Band-edge for RF Conducted Emissions

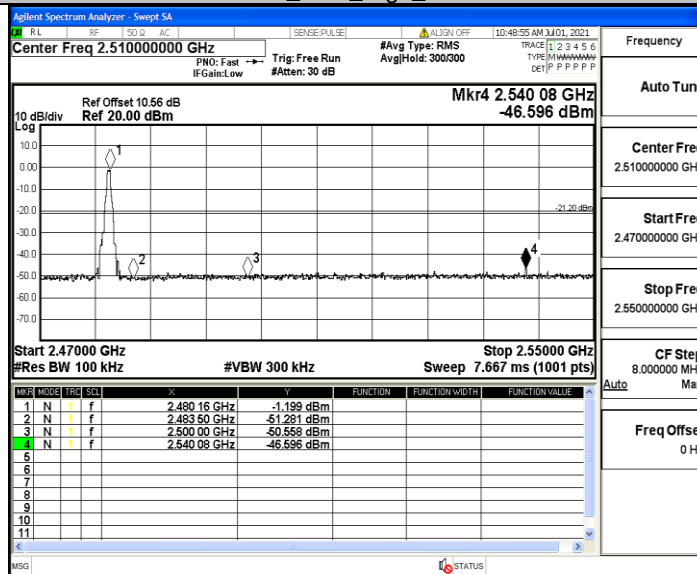
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.25	-48.19	<=-18.75	PASS
		High	2480	-1.20	-46.6	<=-21.2	PASS
		Low	Hop_2402	0.24	-48.68	<=-19.76	PASS
		High	Hop_2480	0.37	-47.67	<=-19.63	PASS
2DH5	Ant1	Low	2402	-0.53	-45.62	<=-20.53	PASS
		High	2480	-2.94	-47.03	<=-22.94	PASS
		Low	Hop_2402	-3.97	-49.12	<=-23.97	PASS
		High	Hop_2480	-1.11	-47.88	<=-21.11	PASS
3DH5	Ant1	Low	2402	-0.37	-43.9	<=-20.36	PASS
		High	2480	-2.62	-47.88	<=-22.62	PASS
		Low	Hop_2402	-3.93	-48.58	<=-23.93	PASS
		High	Hop_2480	-0.98	-47.61	<=-20.98	PASS

Test Graph

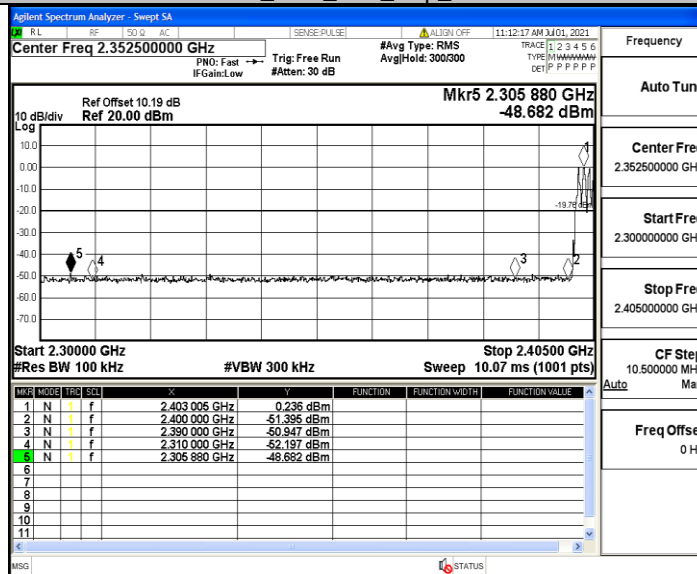
DH5_Ant1_Low_2402



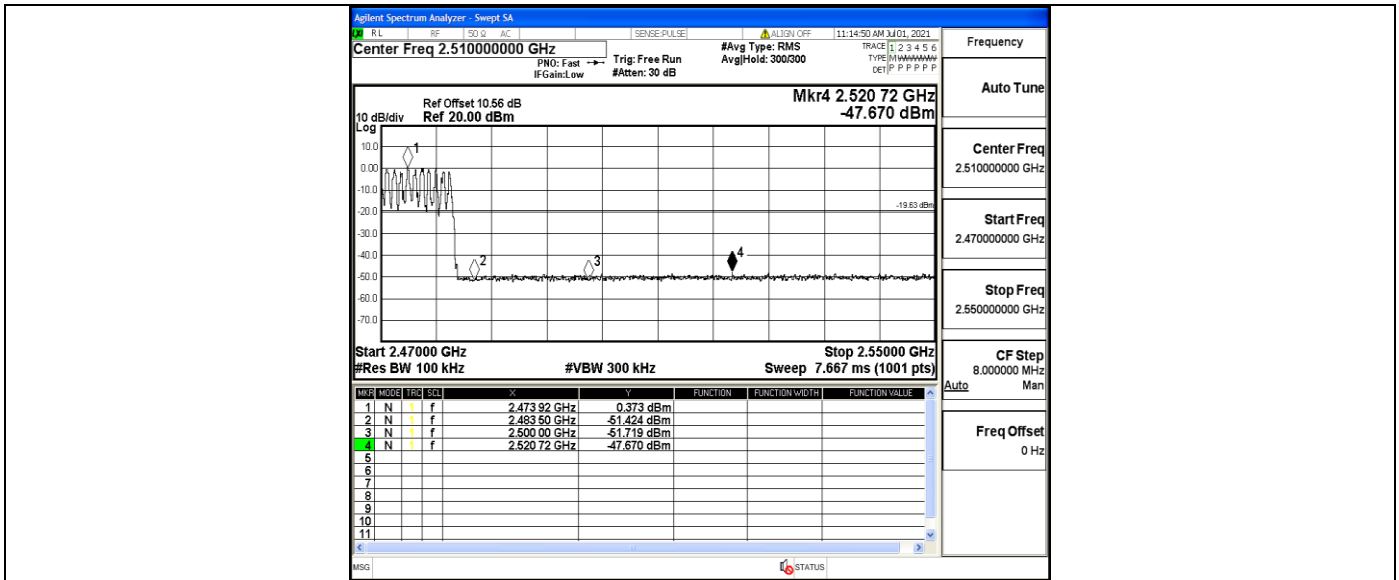
DH5_Ant1_High_2480



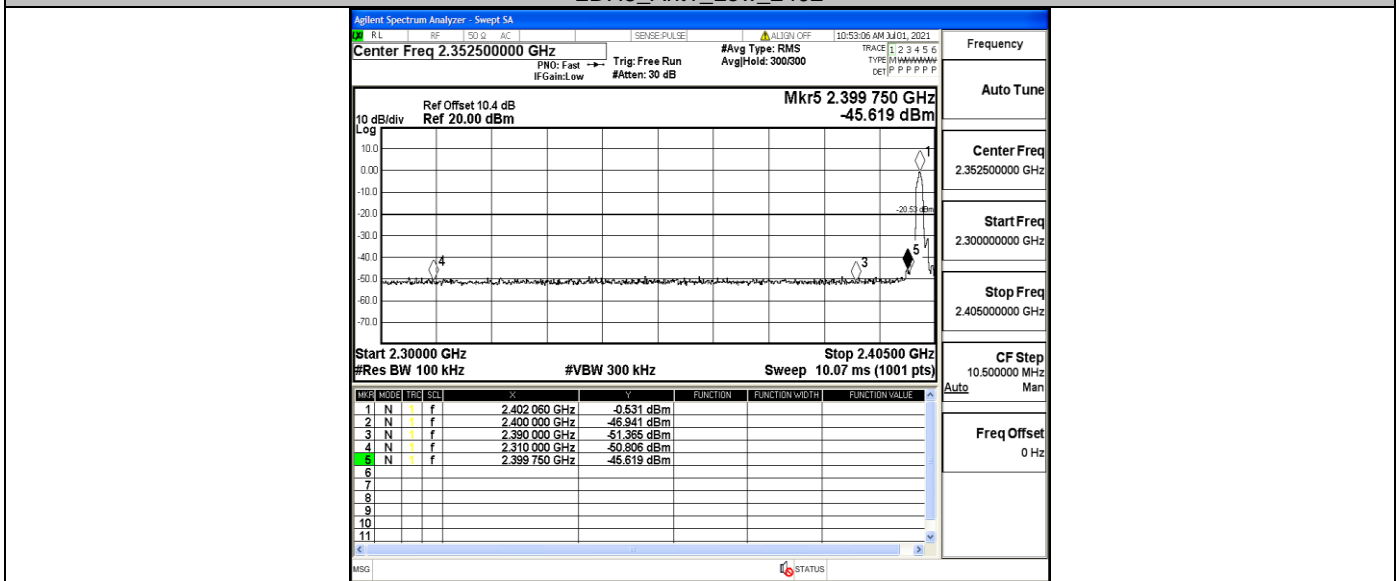
DH5_Ant1_Low_Hop_2402



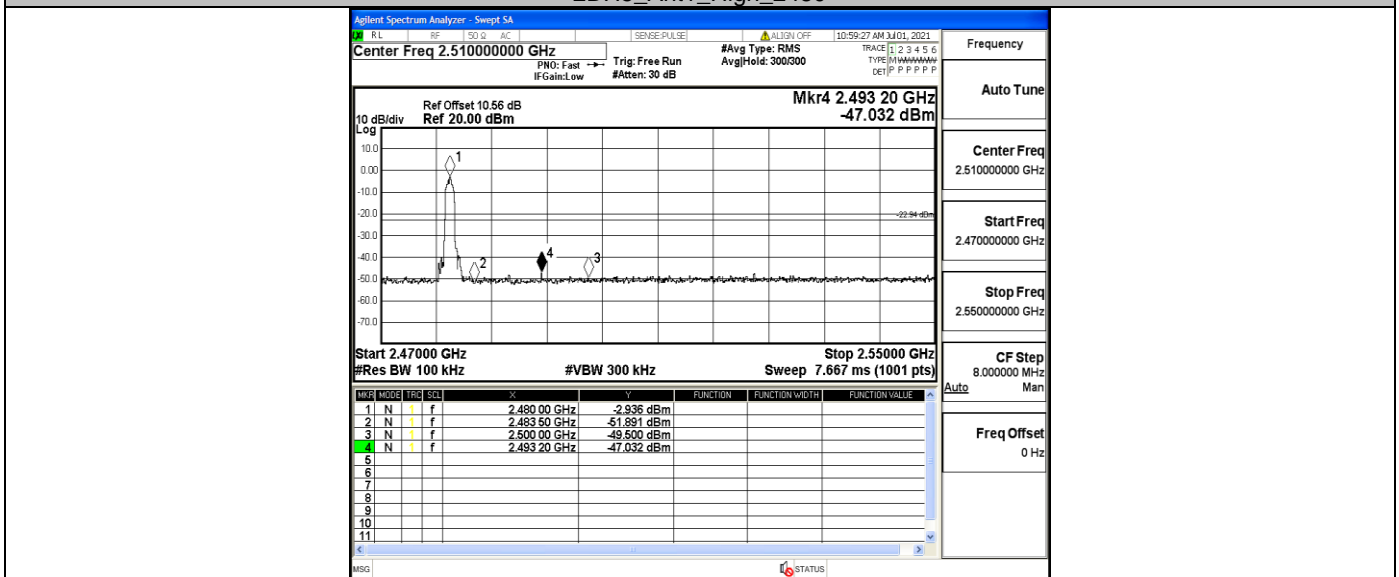
DH5_Ant1_High_Hop_2480



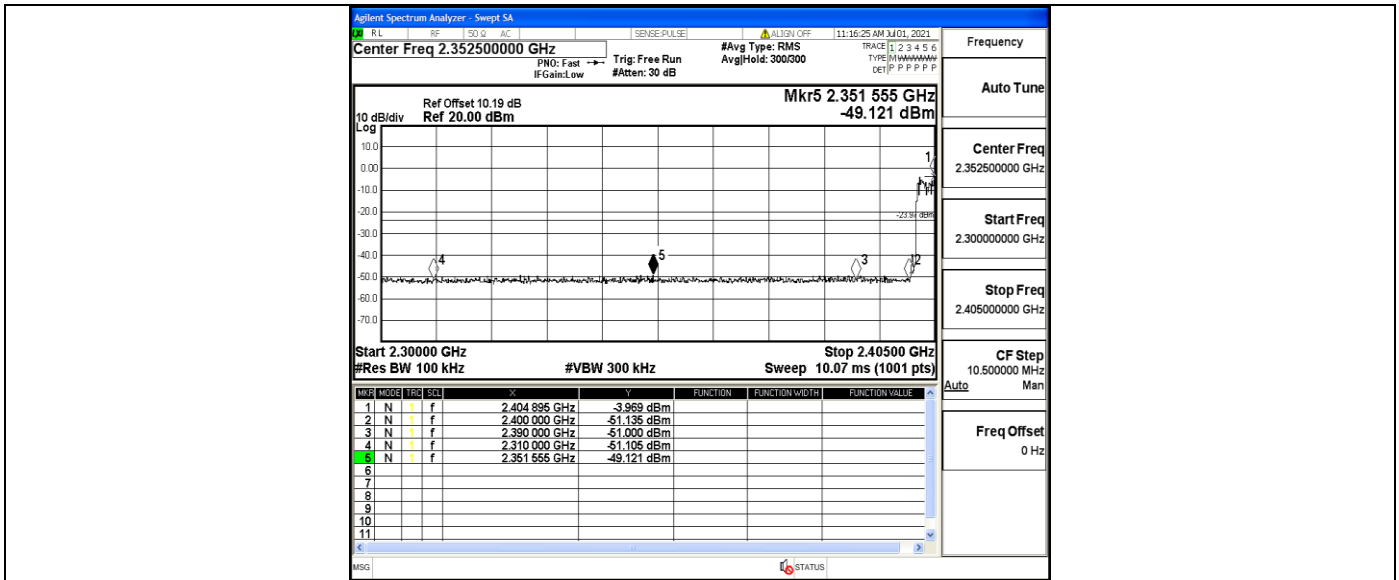
2D5_Ant1_Low_2402



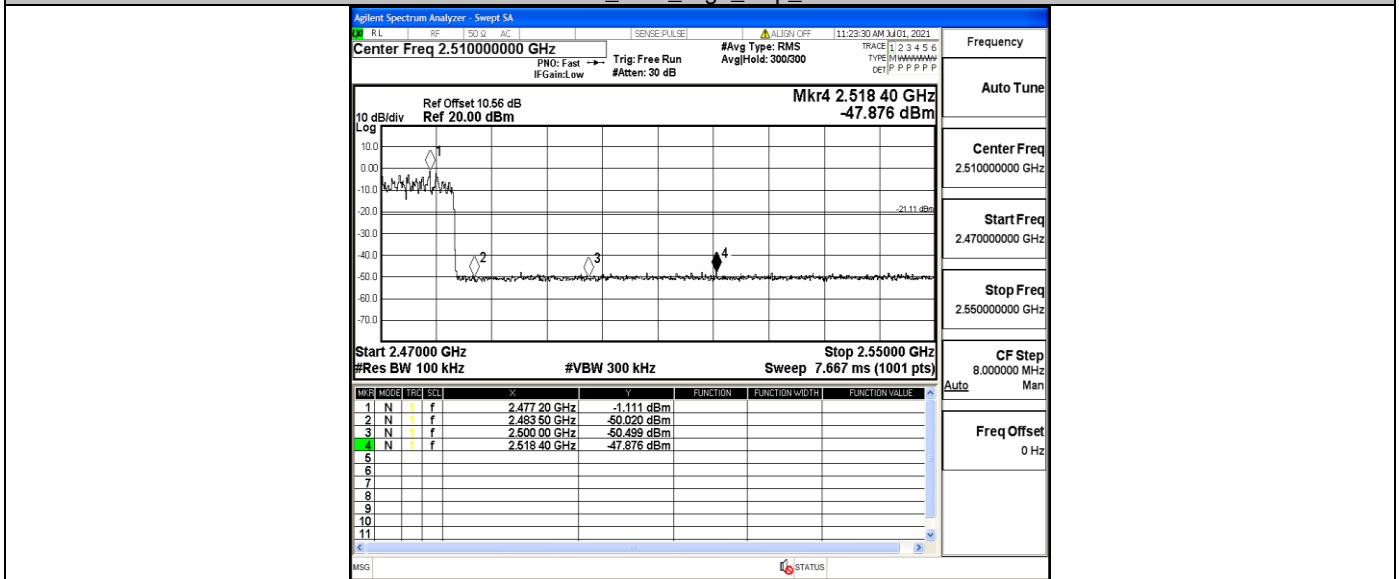
2D5_Ant1_High_2480



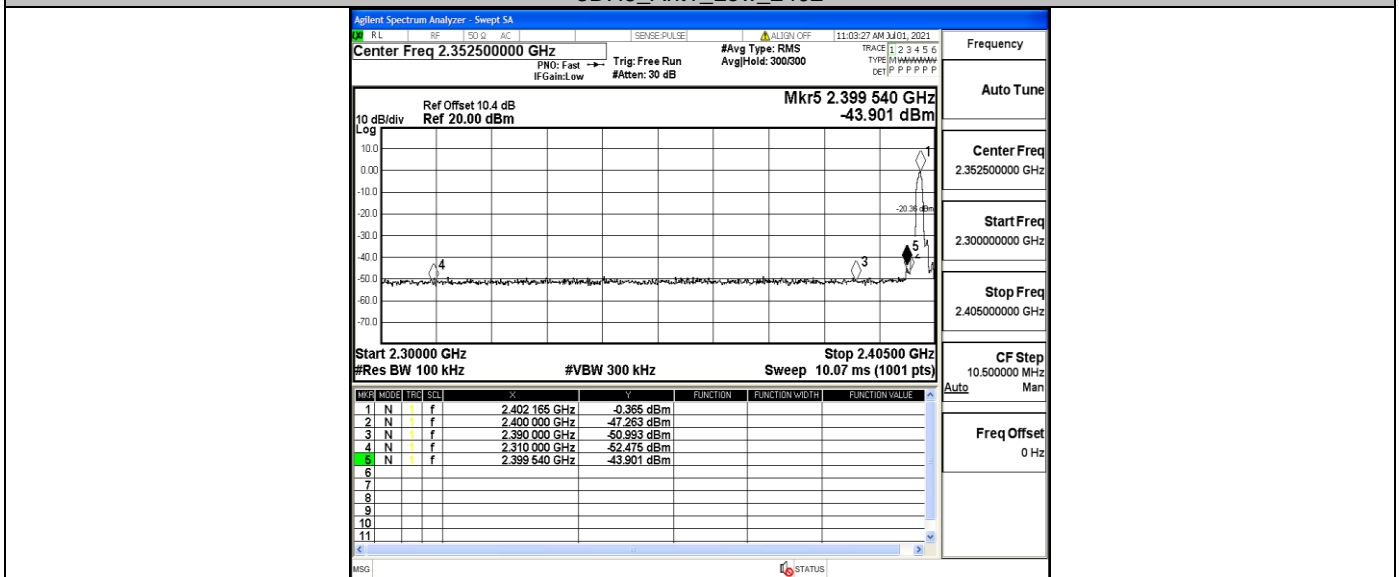
2D5_Ant1_Low_Hop_2402



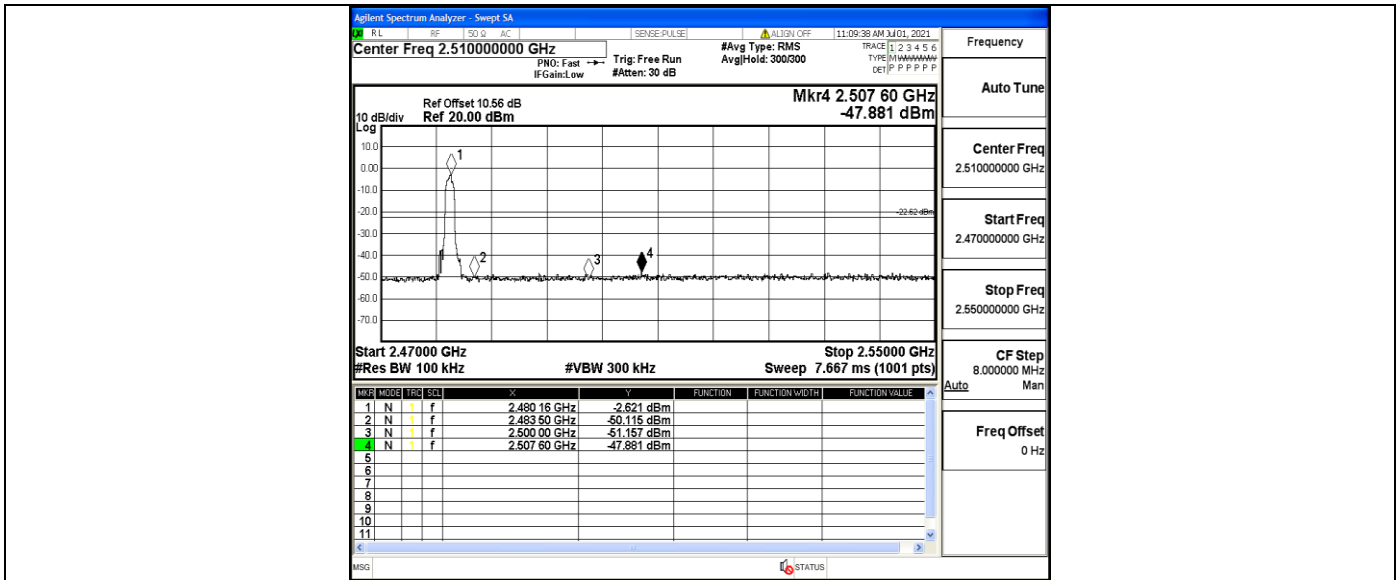
2DH5_Ant1_High_Hop_2480



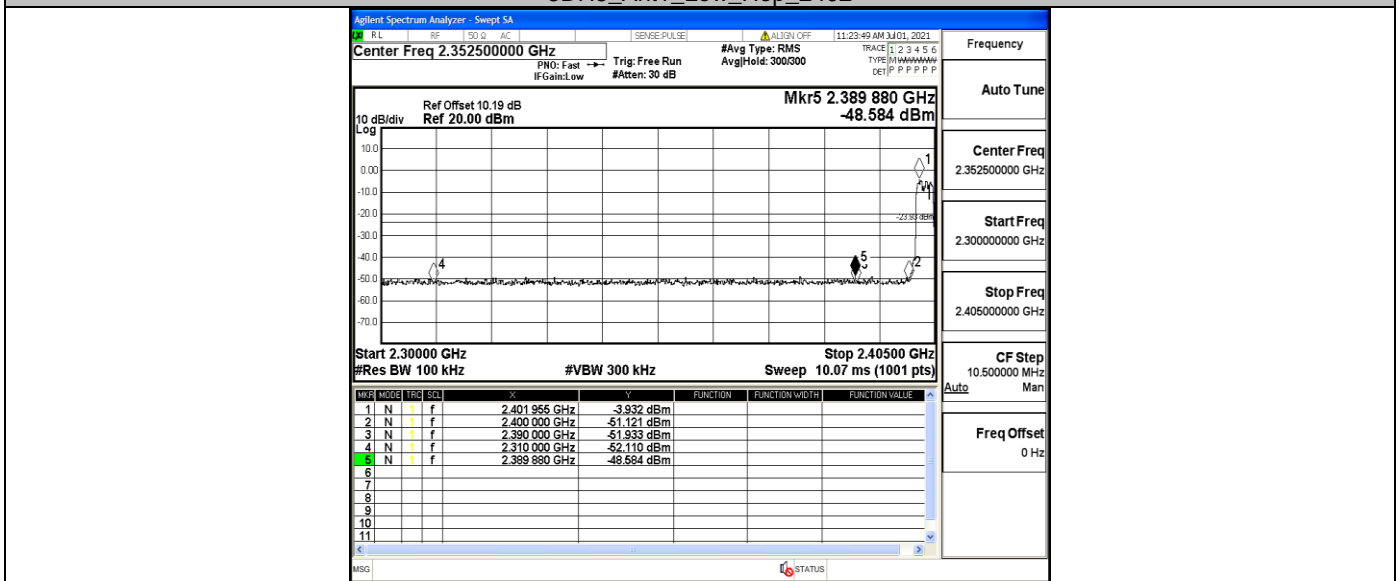
3DH5_Ant1_Low_2402



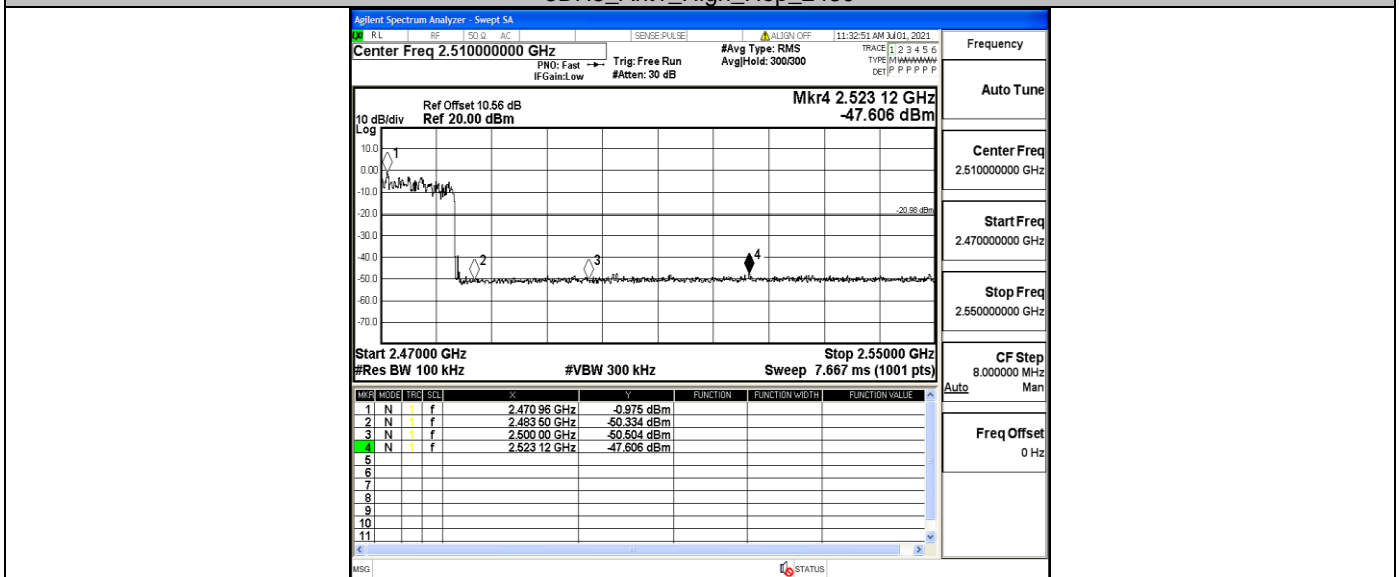
3DH5_Ant1_High_2480



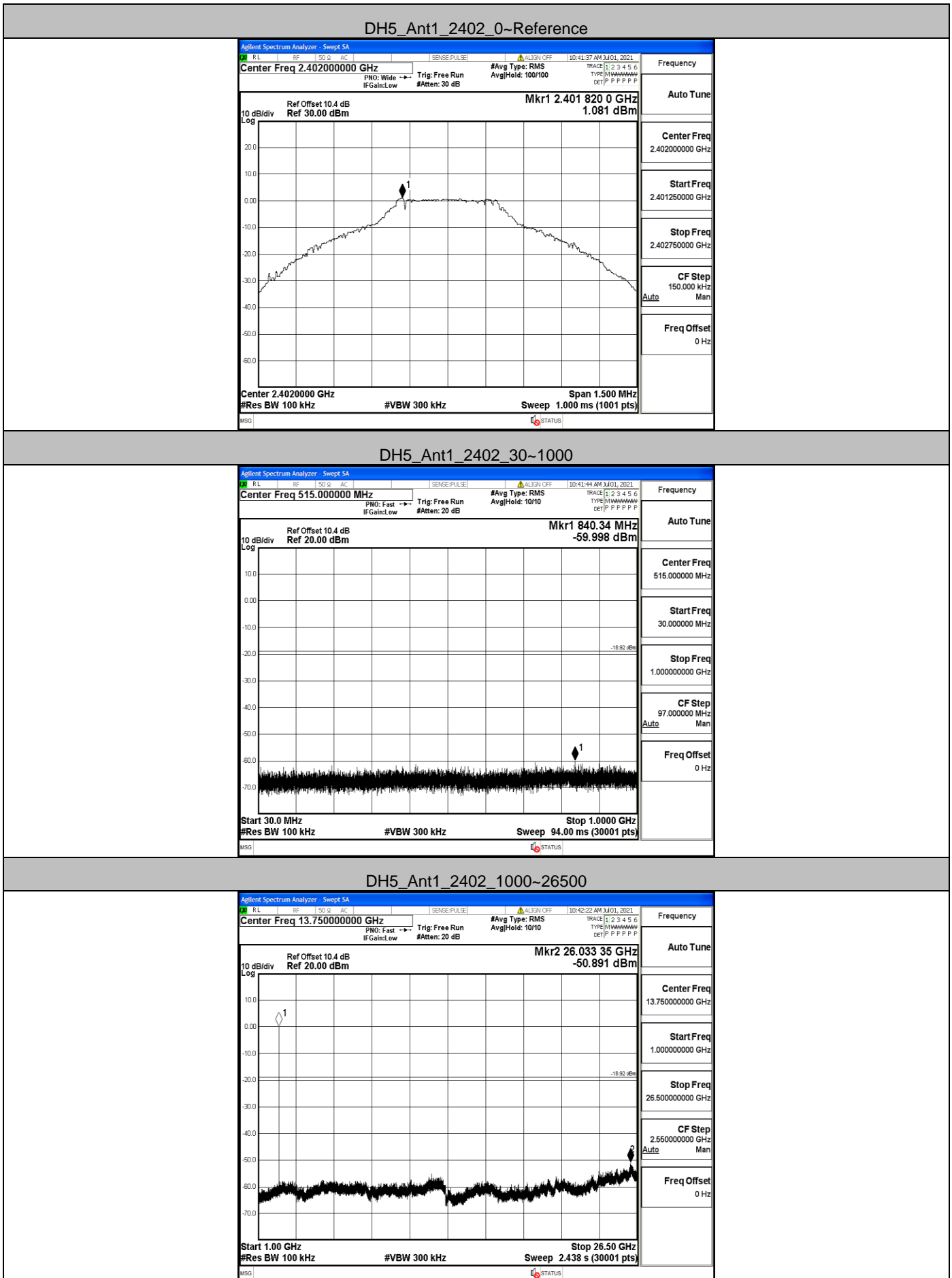
3DH5_Ant1_Low_Hop_2402



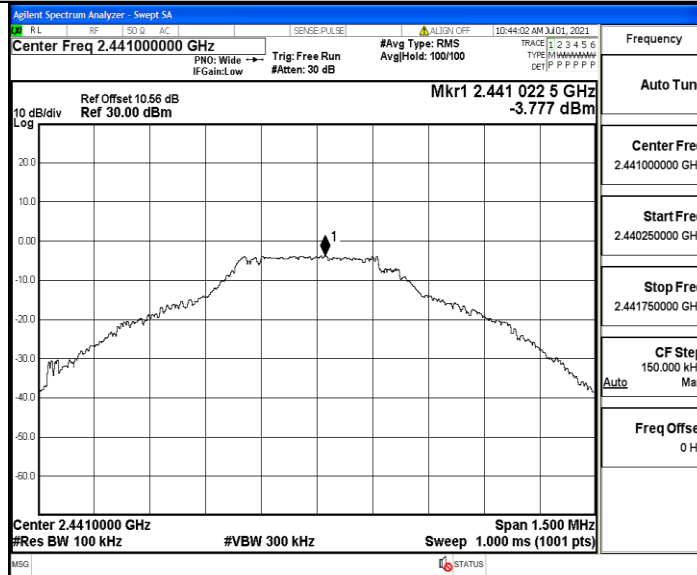
3DH5_Ant1_High_Hop_2480



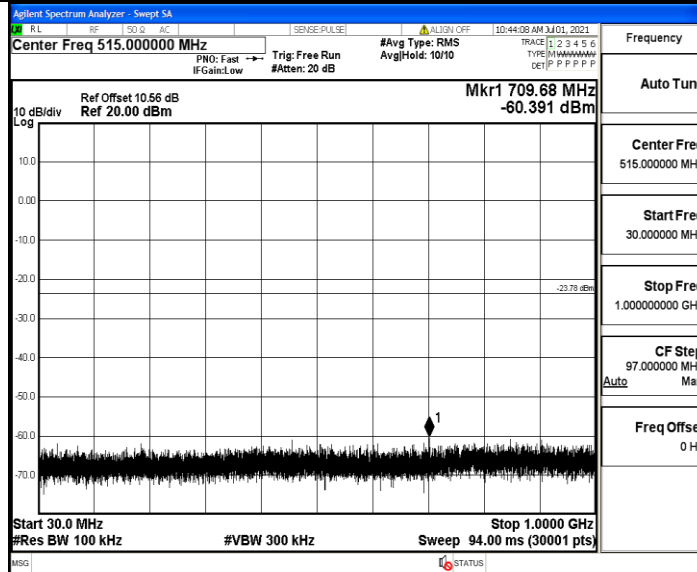
A.7 RF Conducted Spurious Emissions



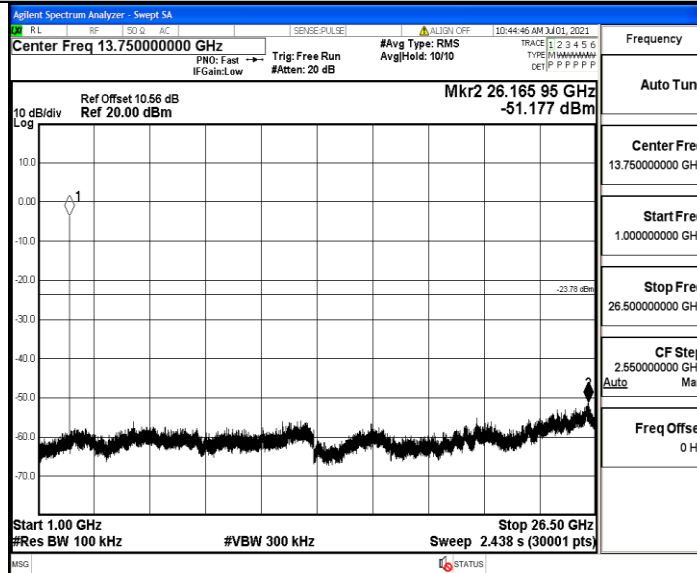
DH5_Ant1_2441_0~Reference



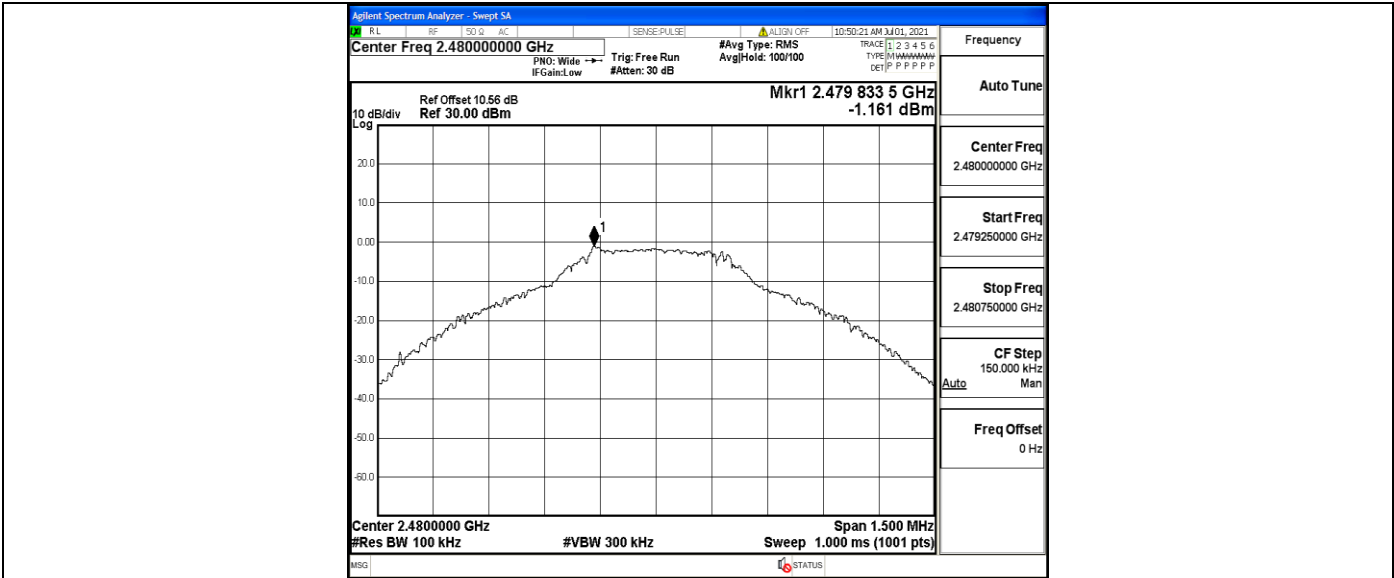
DH5_Ant1_2441_30~1000



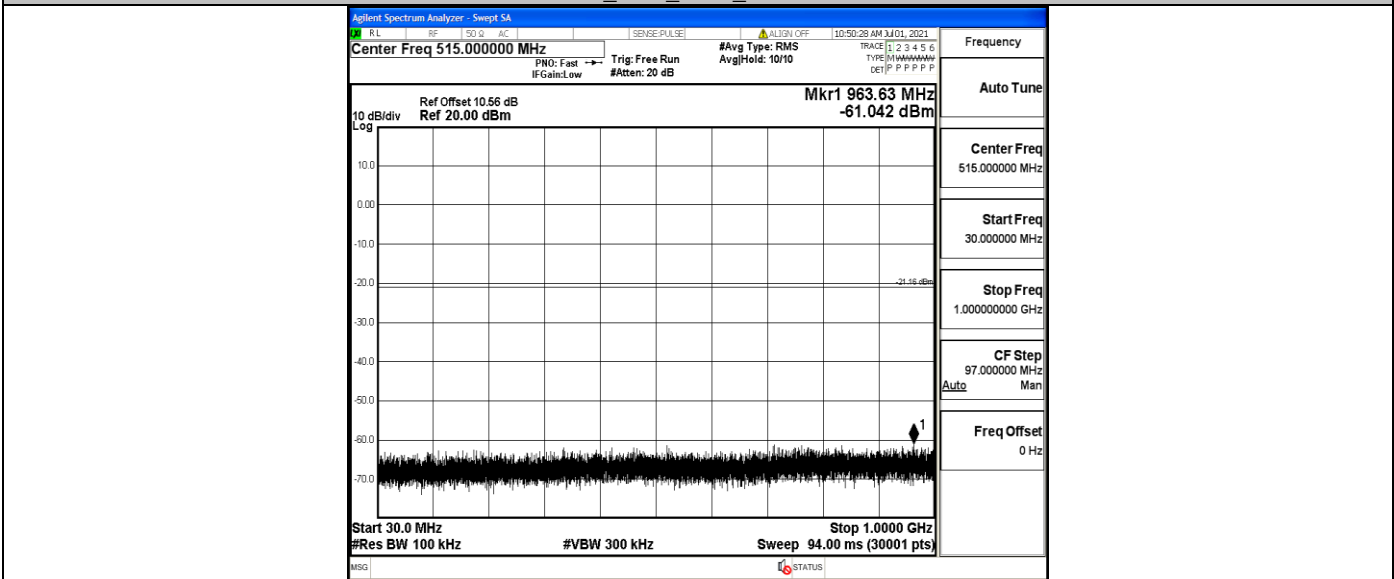
DH5_Ant1_2441_1000~26500



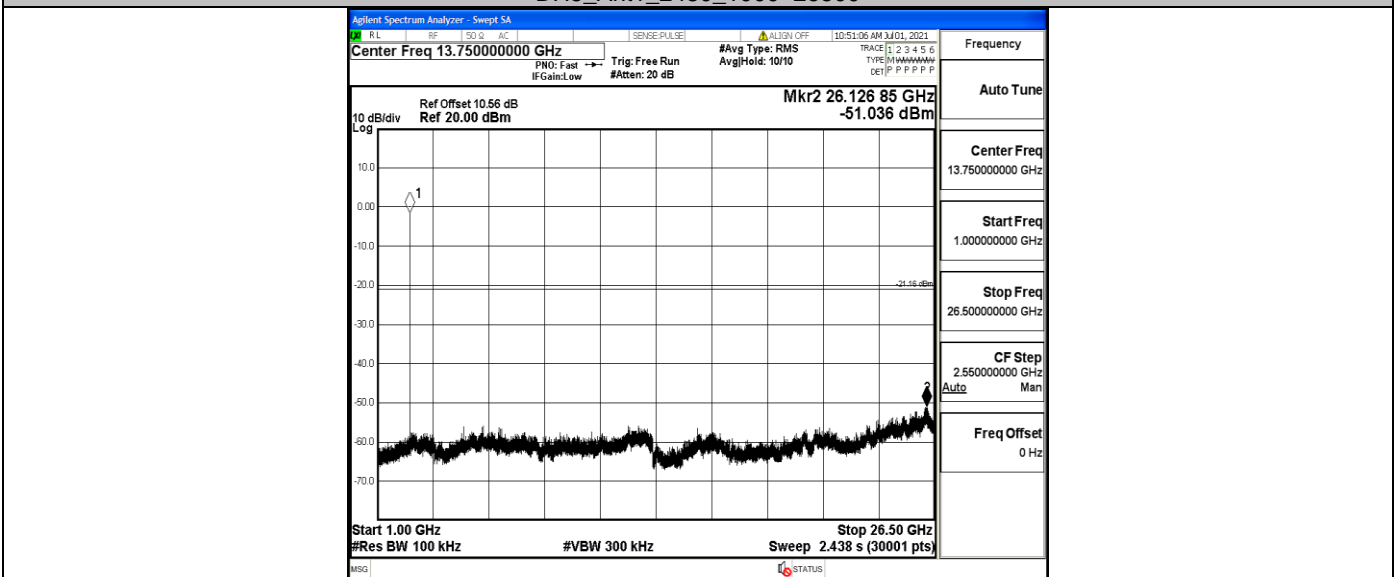
DH5_Ant1_2480_0~Reference



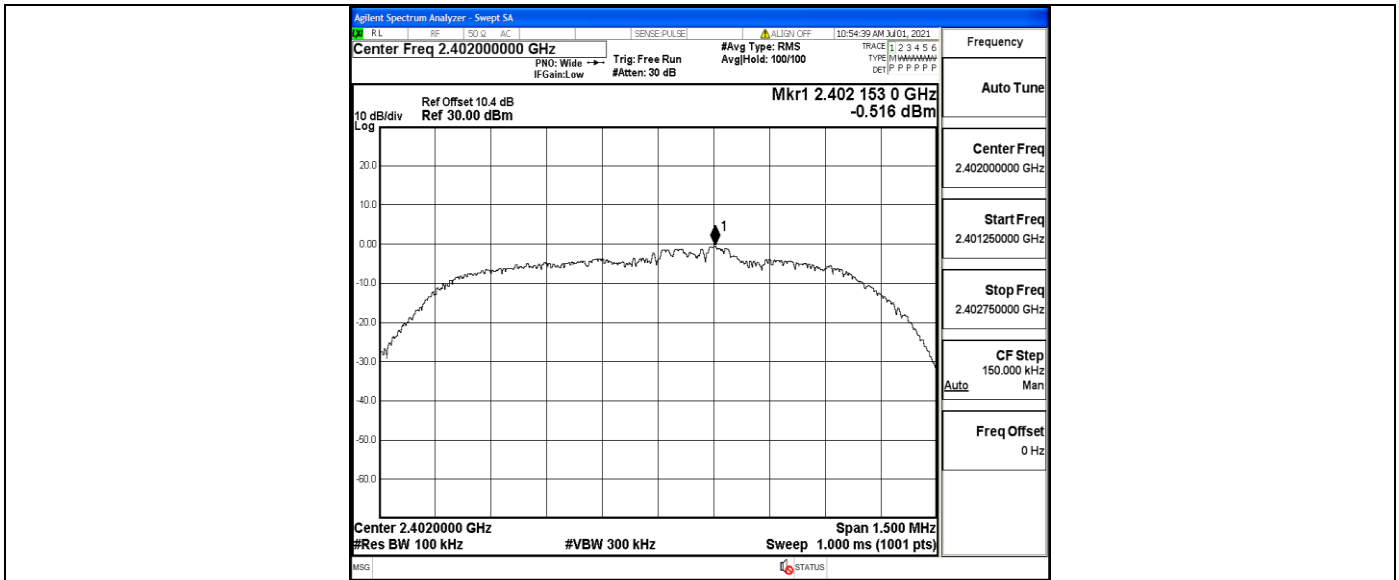
DH5_Ant1_2480_30~1000



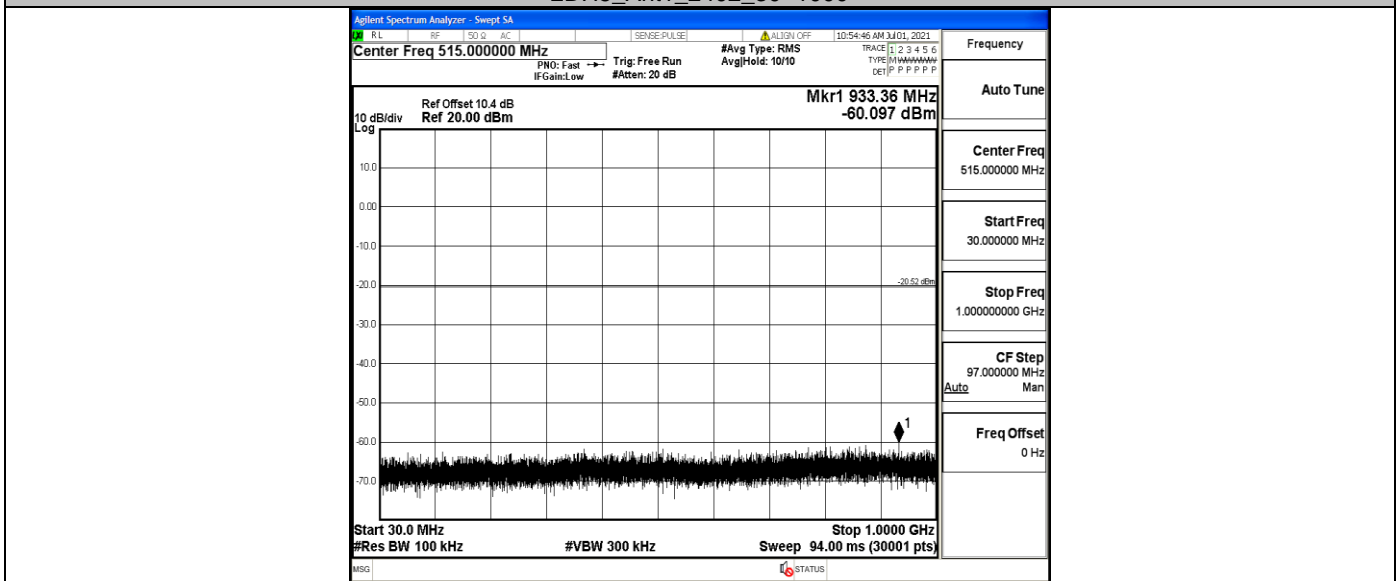
DH5_Ant1_2480_1000~26500



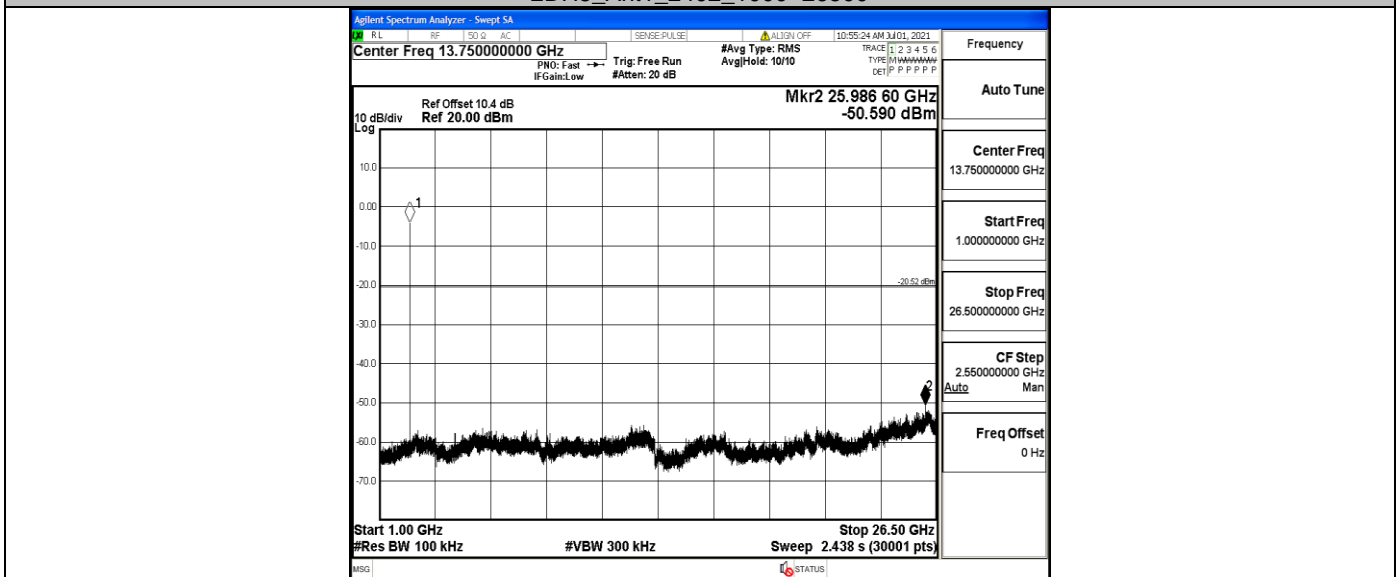
2DH5_Ant1_2402_0~Reference



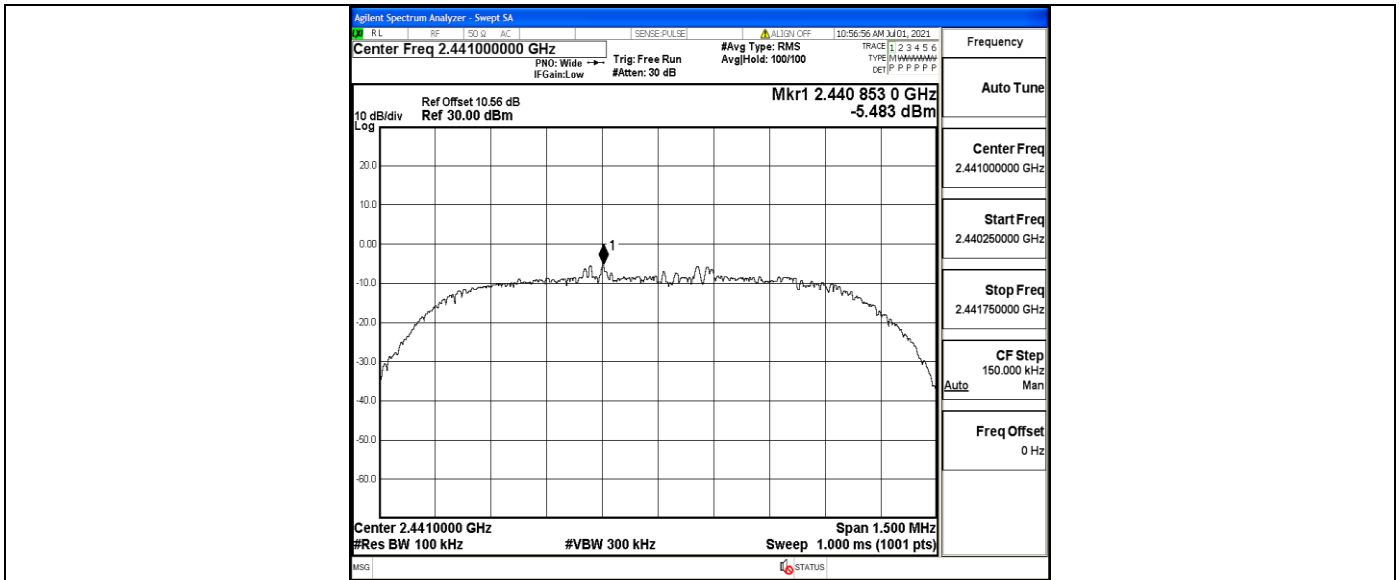
2DH5_Ant1_2402_30~1000



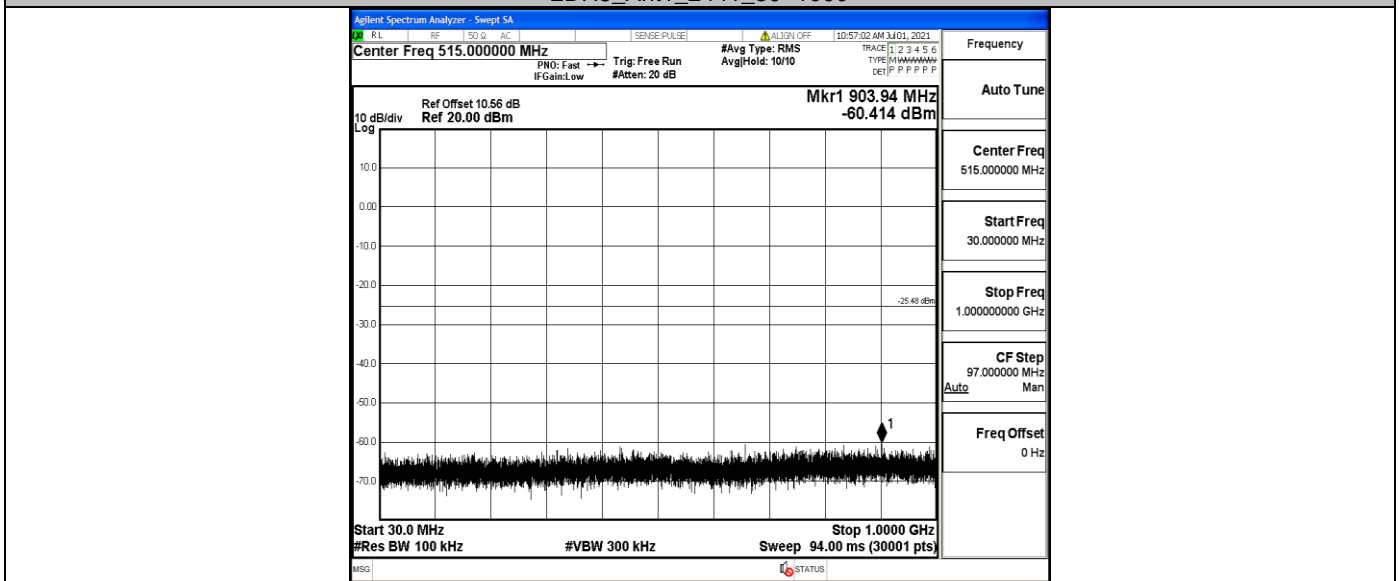
2DH5_Ant1_2402_1000~26500



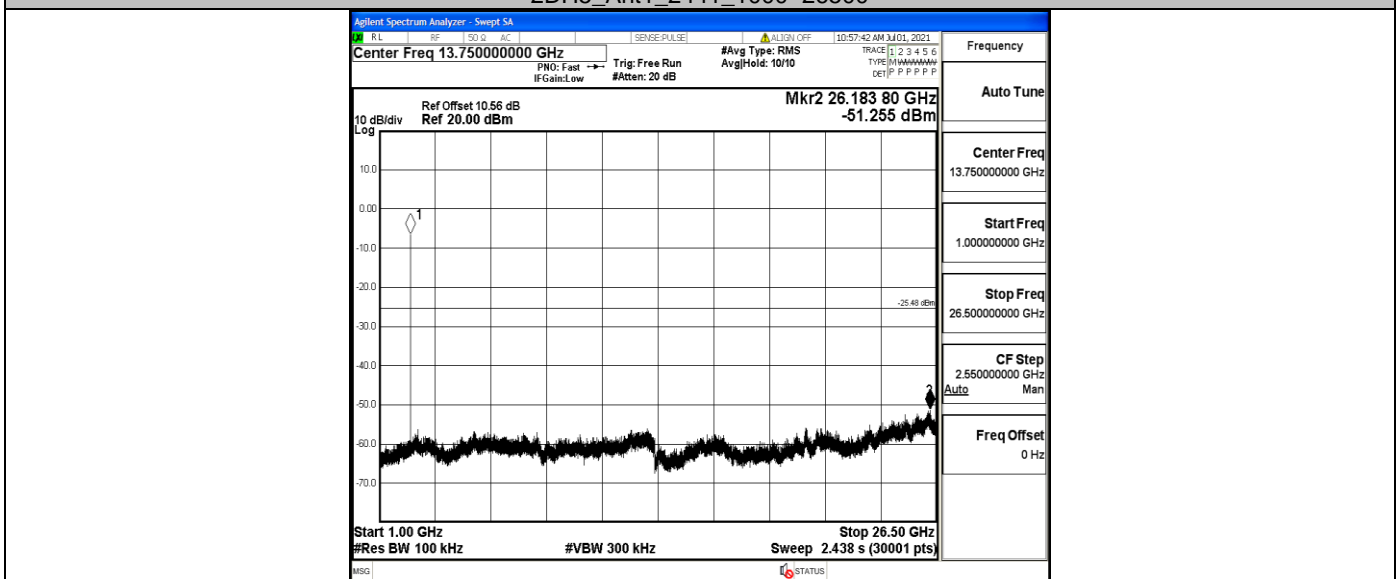
2DH5_Ant1_2441_0~Reference



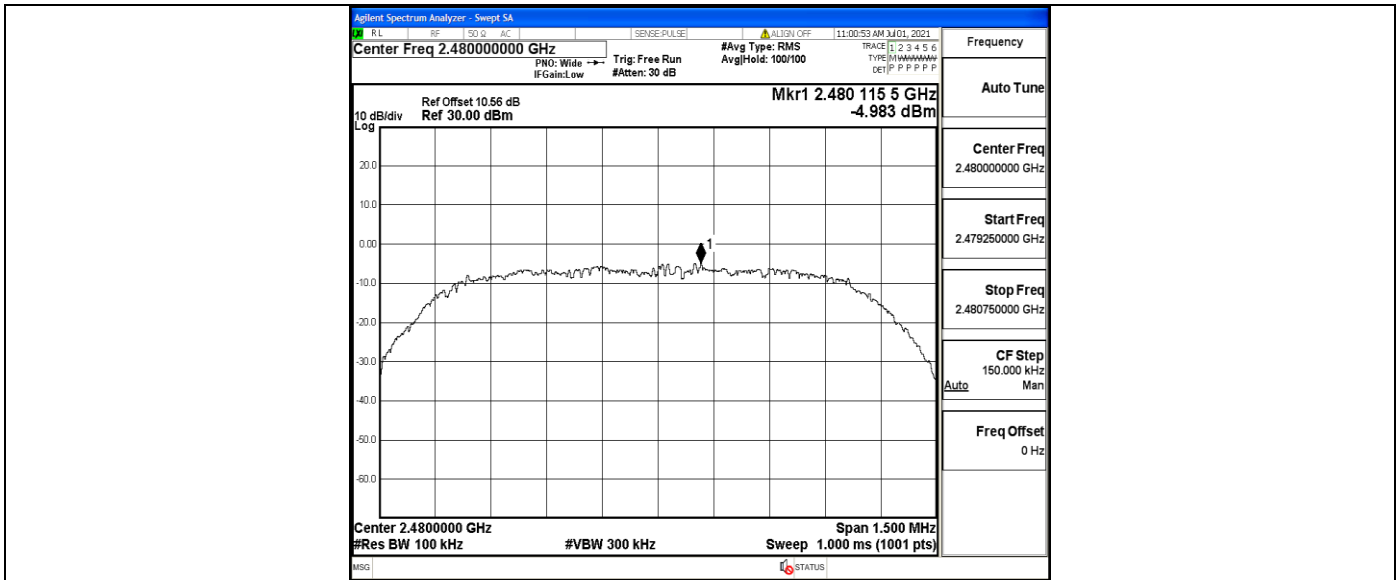
2DH5_Ant1_2441_30~1000



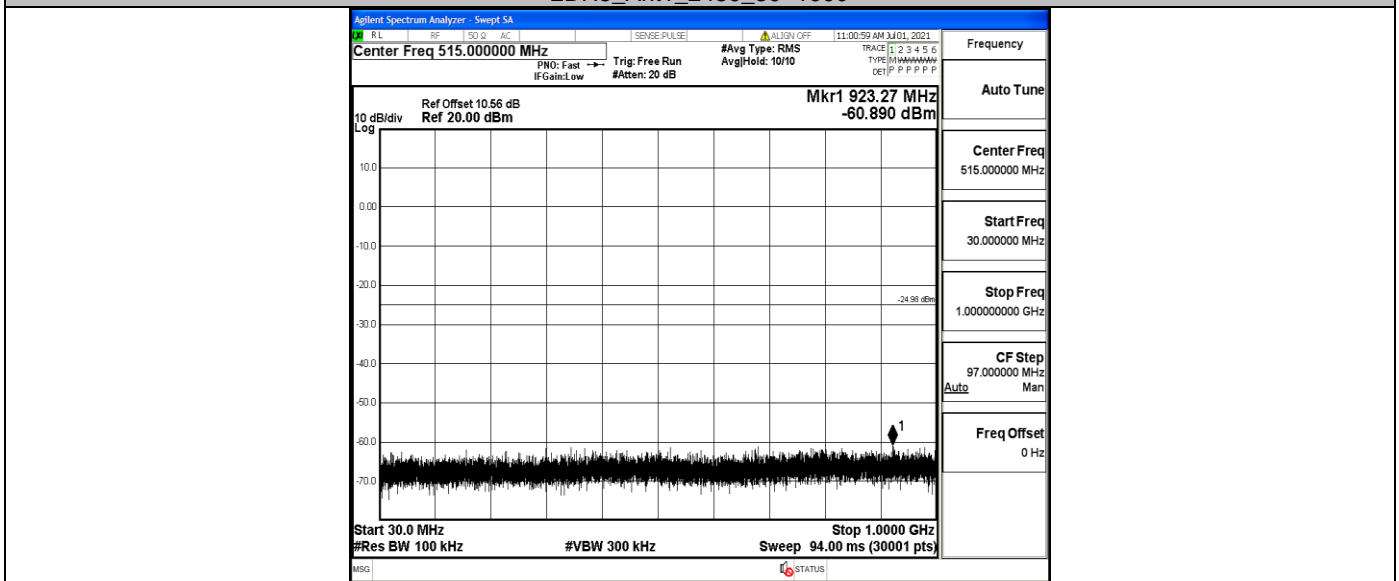
2DH5_Ant1_2441_1000~26500



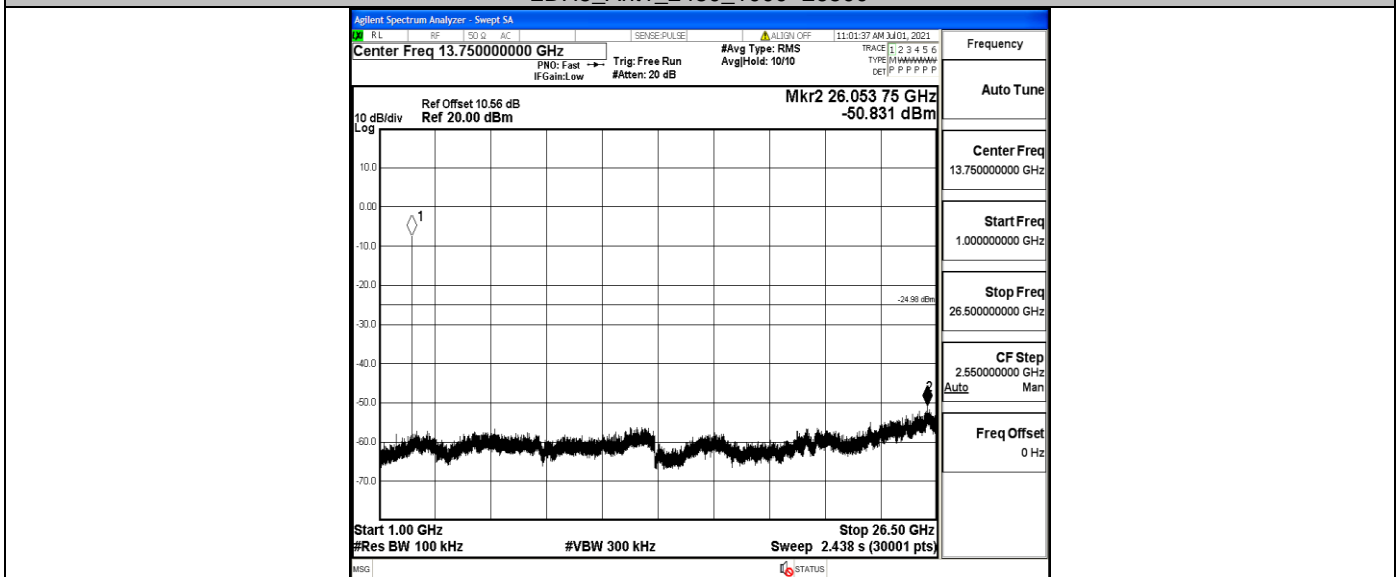
2DH5_Ant1_2480_0~Reference



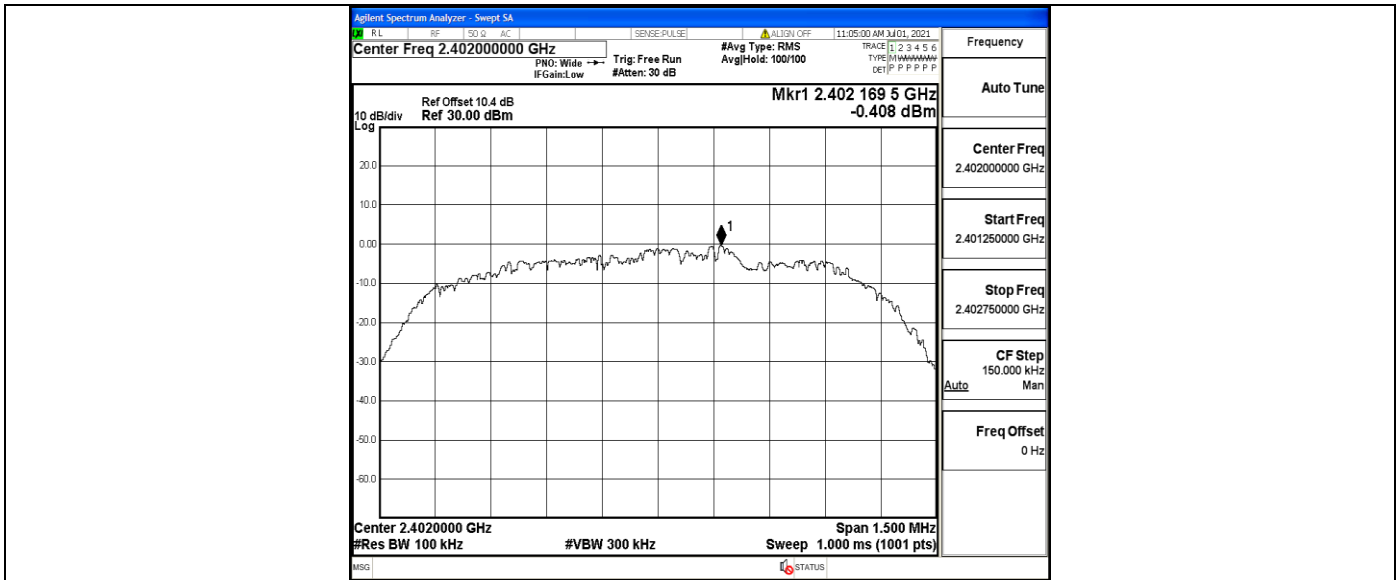
2DH5_Ant1_2480_30~1000



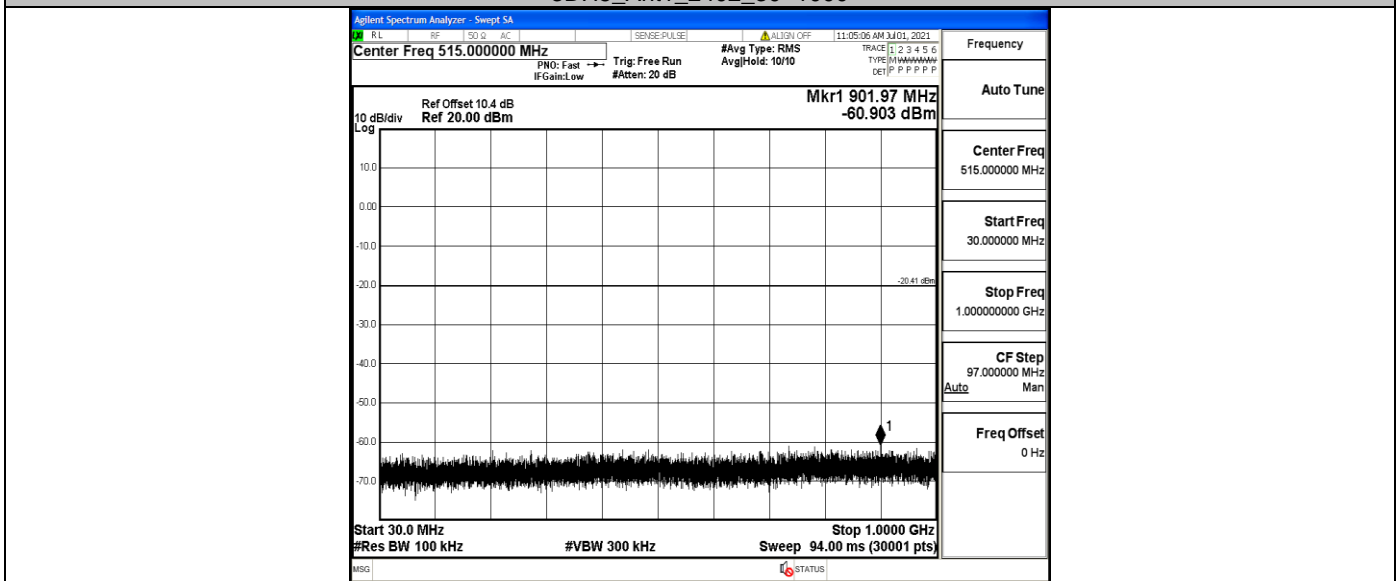
2DH5_Ant1_2480_1000~26500



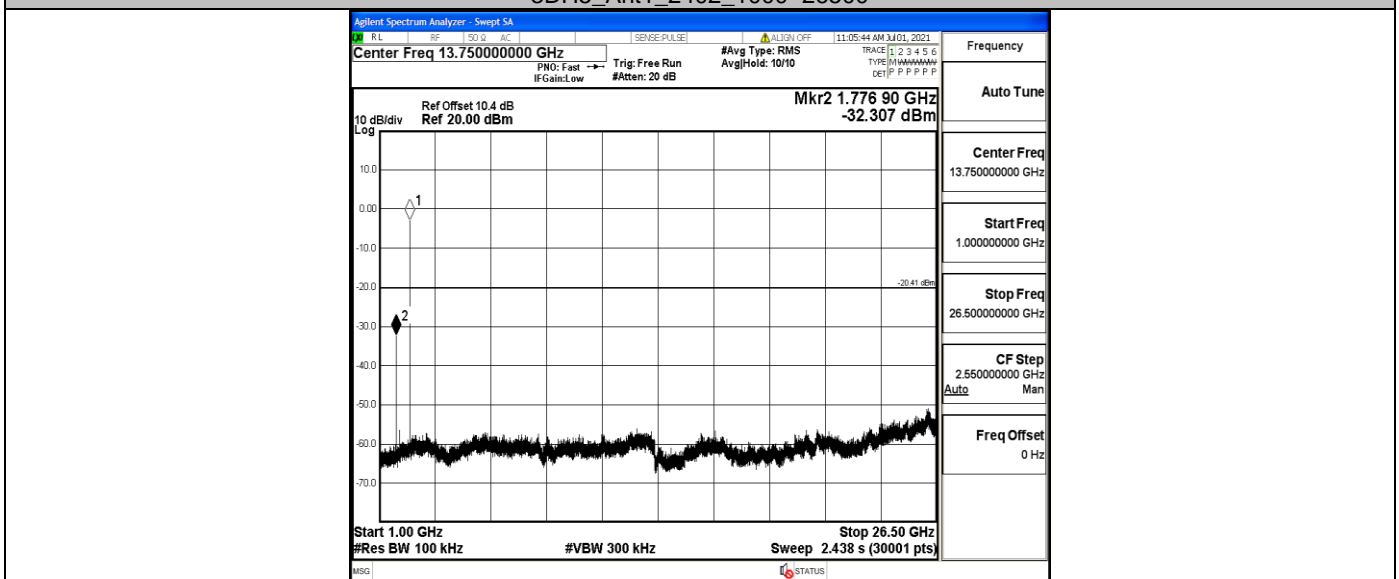
3DH5_Ant1_2402_0~Reference



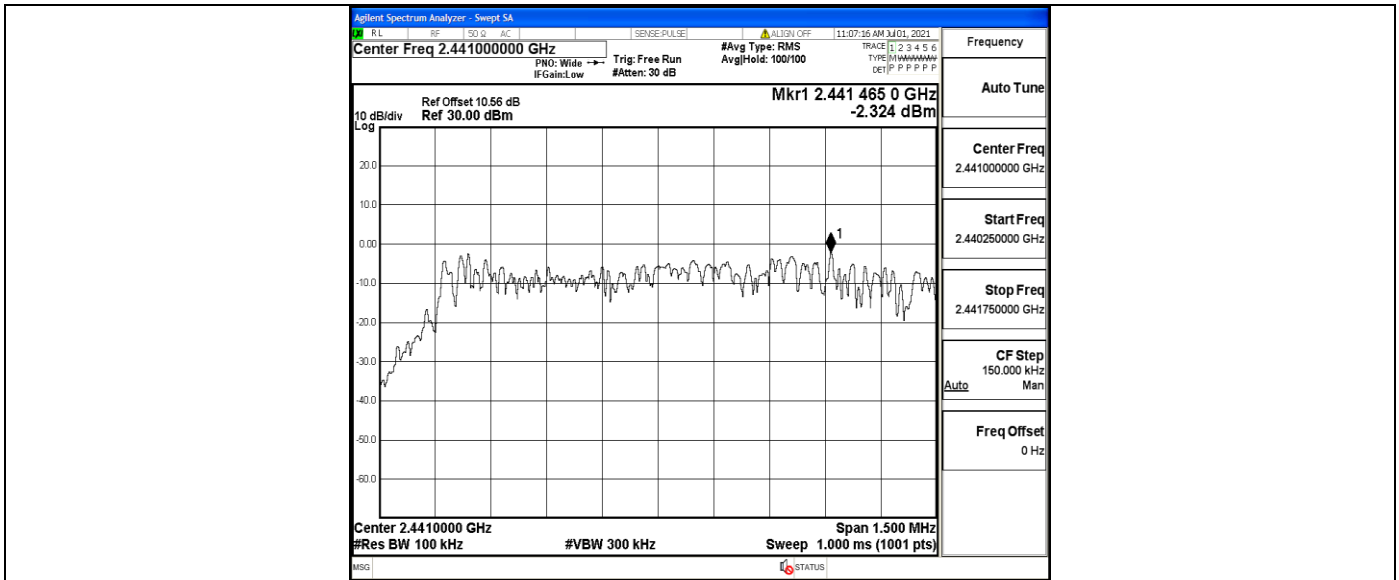
3DH5_Ant1_2402_30~1000



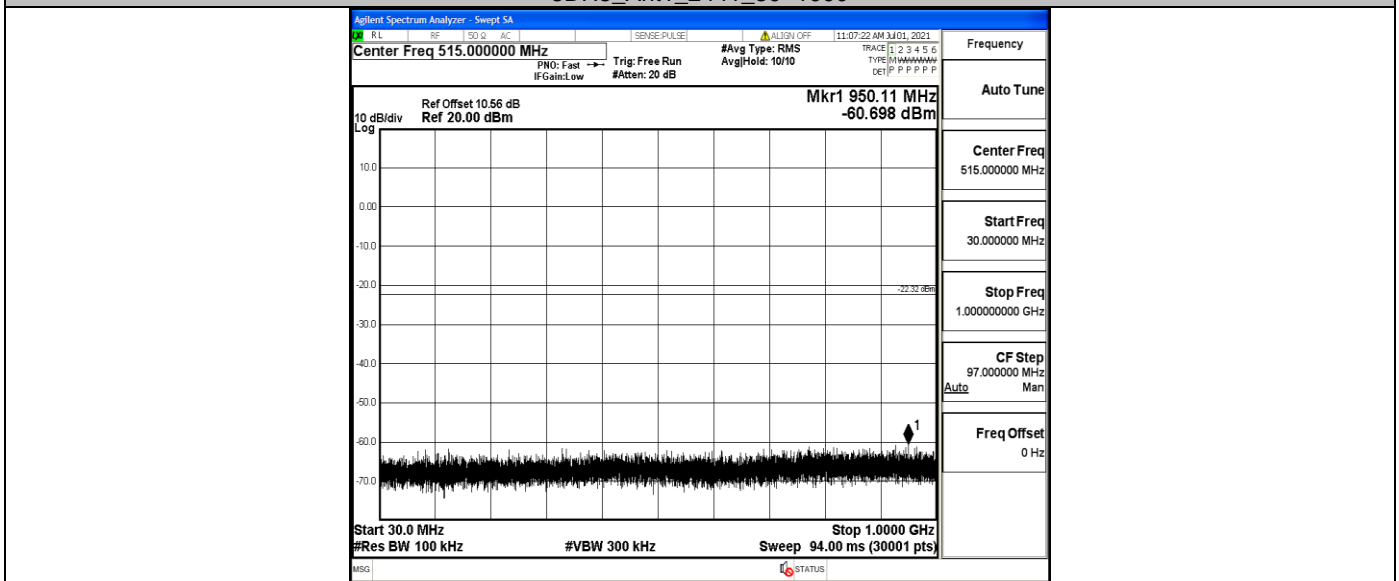
3DH5_Ant1_2402_1000~26500



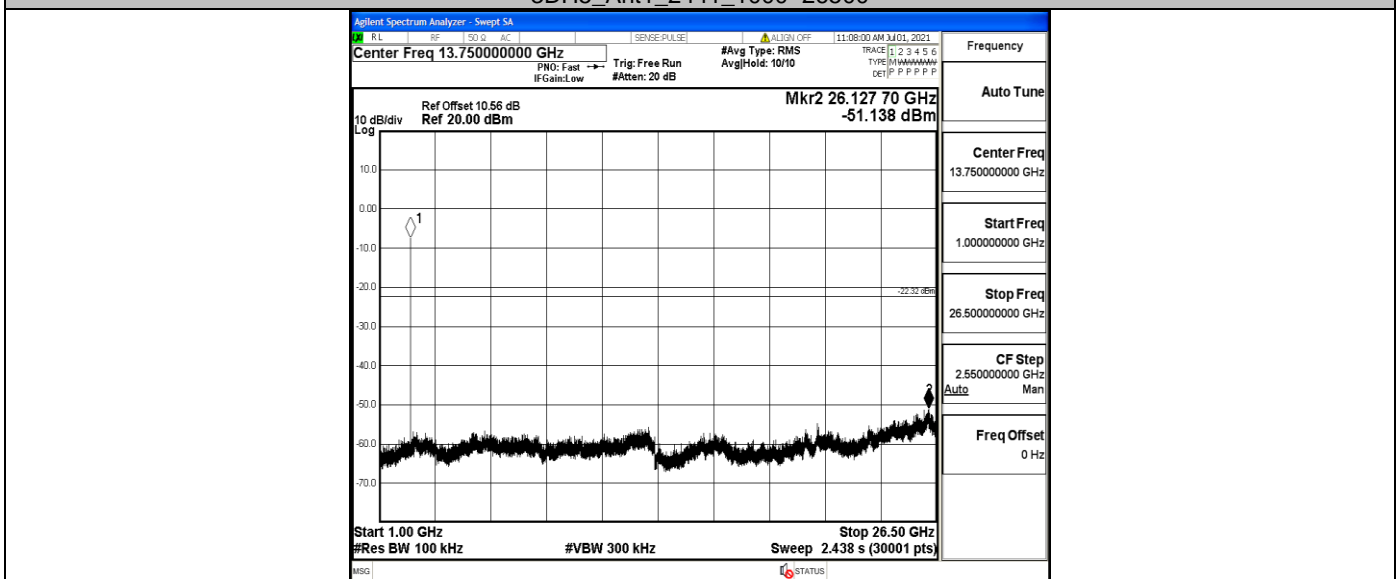
3DH5_Ant1_2441_0~Reference



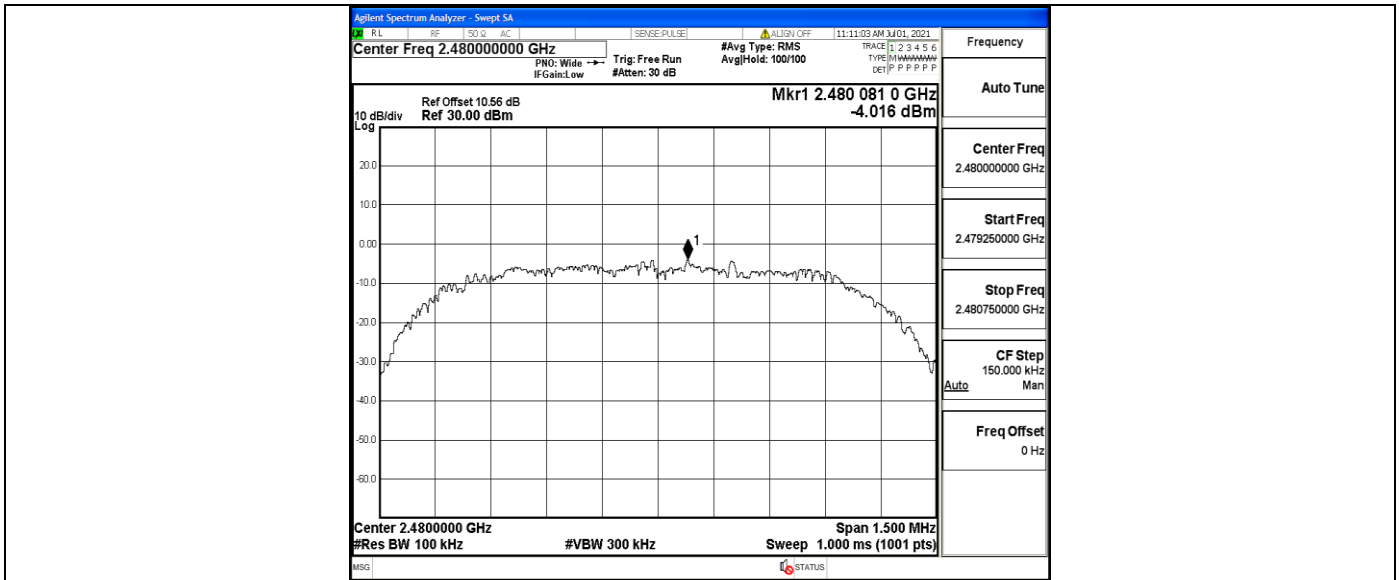
3DH5_Ant1_2441_30~1000



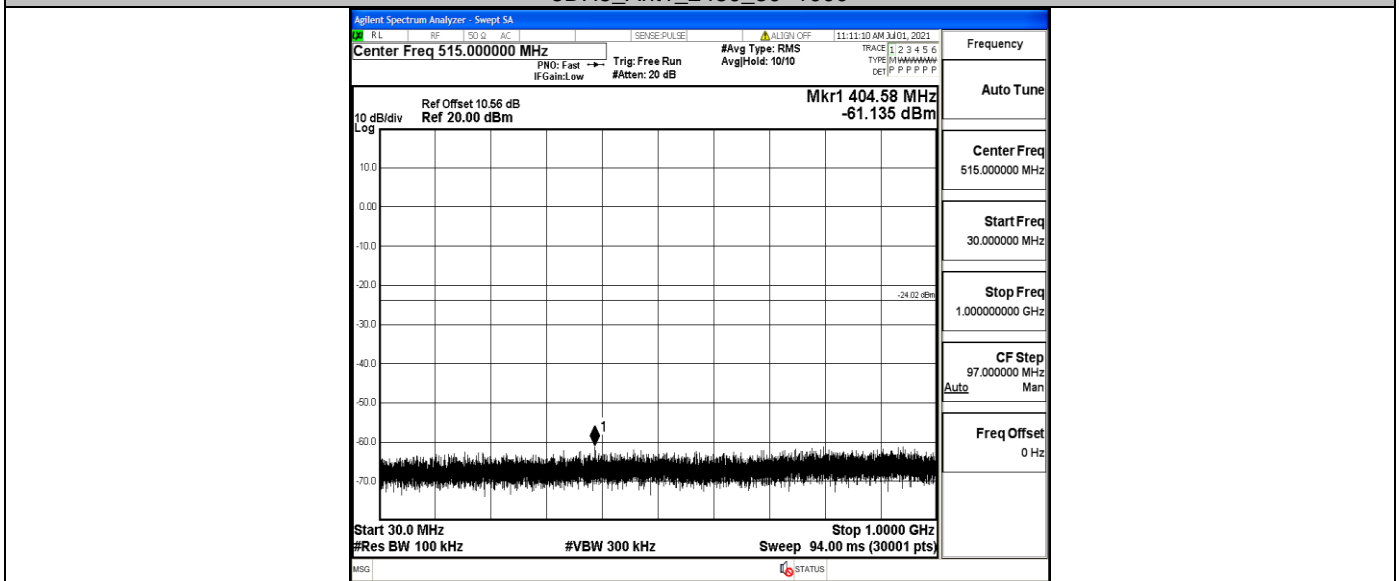
3DH5_Ant1_2441_1000~26500



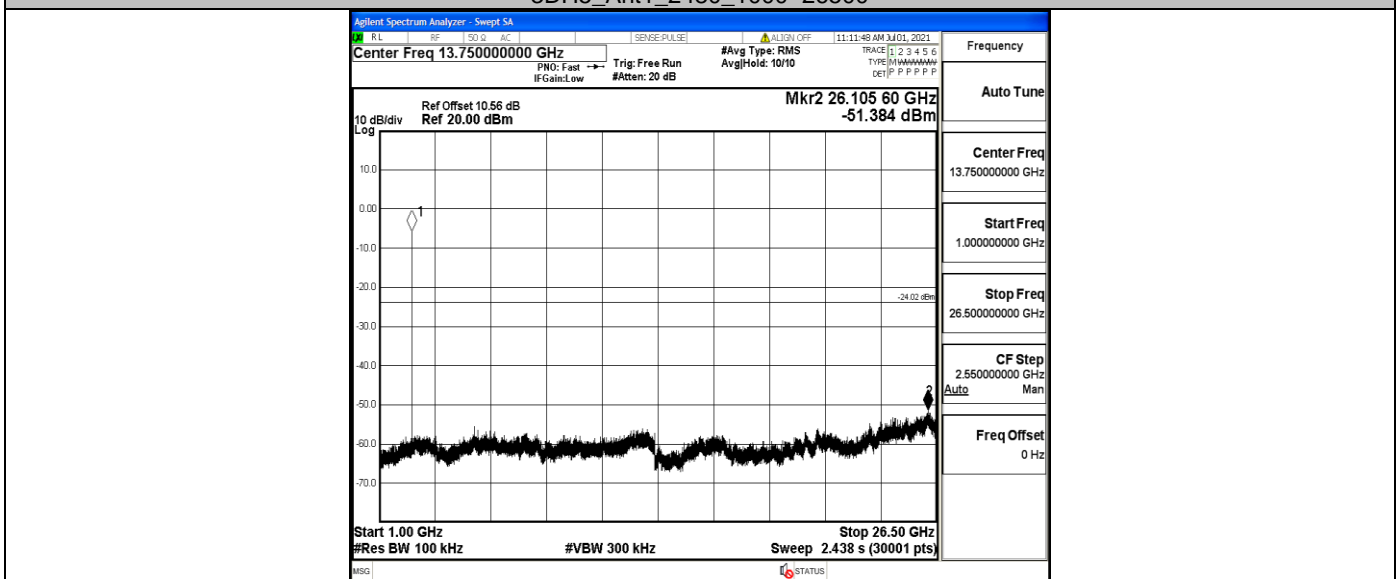
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500



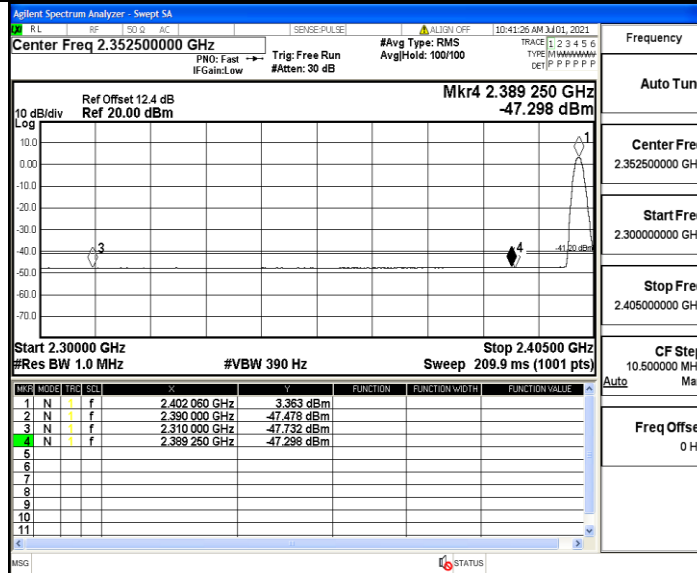
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel	Detector	Freq (MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-47.73	<=-41.20	PASS
				AV	2389.250	-47.3	<=-41.20	PASS
				AV	2390.000	-47.48	<=-41.20	PASS
				Peak	2310.000	-40.99	<=-21.20	PASS
				Peak	2313.020	-38.06	<=-21.20	PASS
				Peak	2390.000	-40.72	<=-21.20	PASS
		High	2480	AV	2483.500	-46.82	<=-41.20	PASS
				AV	2498.480	-46.66	<=-41.20	PASS
				AV	2500.000	-46.76	<=-41.20	PASS
				Peak	2483.500	-39.84	<=-21.20	PASS
				Peak	2495.920	-36.72	<=-21.20	PASS
				Peak	2500.000	-38.73	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-47.7	<=-41.20	PASS
				AV	2387.360	-47.38	<=-41.20	PASS
				AV	2390.000	-47.45	<=-41.20	PASS
				Peak	2310.000	-41.25	<=-21.20	PASS
				Peak	2382.740	-37.72	<=-21.20	PASS
				Peak	2390.000	-38.58	<=-21.20	PASS
		High	2480	AV	2483.500	-46.71	<=-41.20	PASS
				AV	2491.280	-46.66	<=-41.20	PASS
				AV	2500.000	-46.74	<=-41.20	PASS
				Peak	2483.500	-39.09	<=-21.20	PASS
				Peak	2486.960	-37.41	<=-21.20	PASS
				Peak	2500.000	-37.71	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-47.52	<=-41.20	PASS
				AV	2378.540	-47.37	<=-41.20	PASS
				AV	2390.000	-47.42	<=-41.20	PASS
				Peak	2310.000	-41.44	<=-21.20	PASS
				Peak	2384.210	-37.42	<=-21.20	PASS
				Peak	2390.000	-40.7	<=-21.20	PASS
		High	2480	AV	2483.500	-46.71	<=-41.20	PASS
				AV	2496.880	-46.58	<=-41.20	PASS
				AV	2500.000	-46.79	<=-41.20	PASS
				Peak	2483.500	-37.84	<=-21.20	PASS
				Peak	2489.680	-37.37	<=-21.20	PASS
				Peak	2500.000	-39.75	<=-21.20	PASS

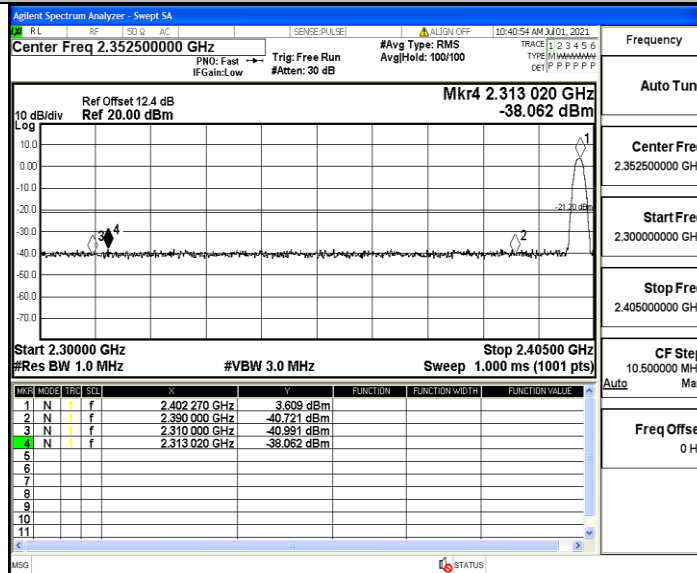
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.

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.

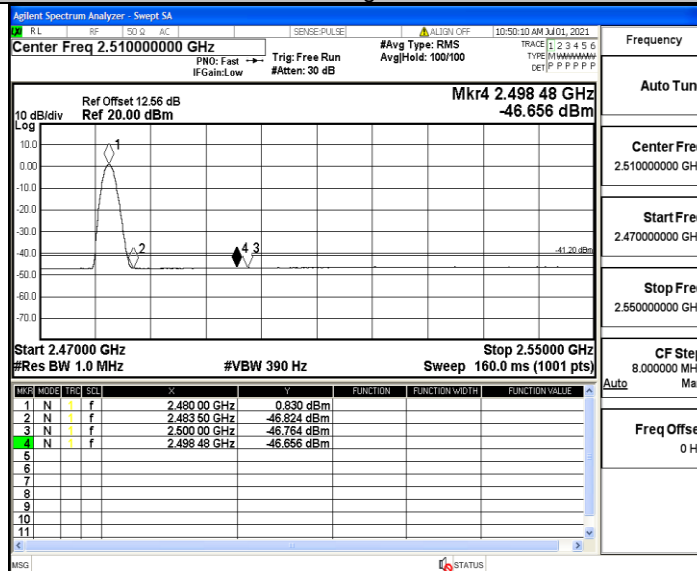
DH5_Ant1_Low_2402_AV



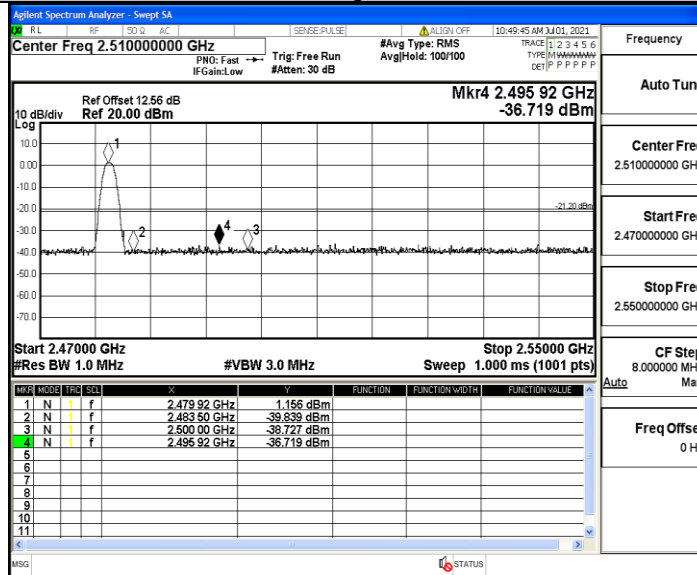
DH5_Ant1_Low_2402_Peak



DH5_Ant1_High_2480_AV

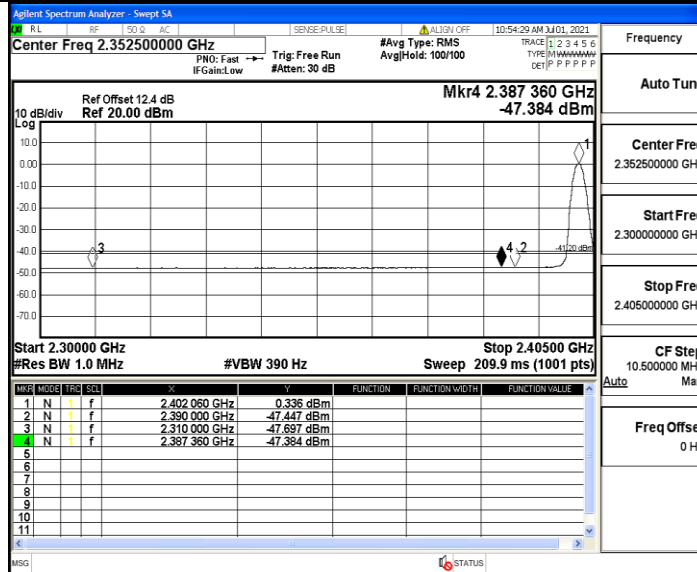


DH5_Ant1_High_2480_Peak



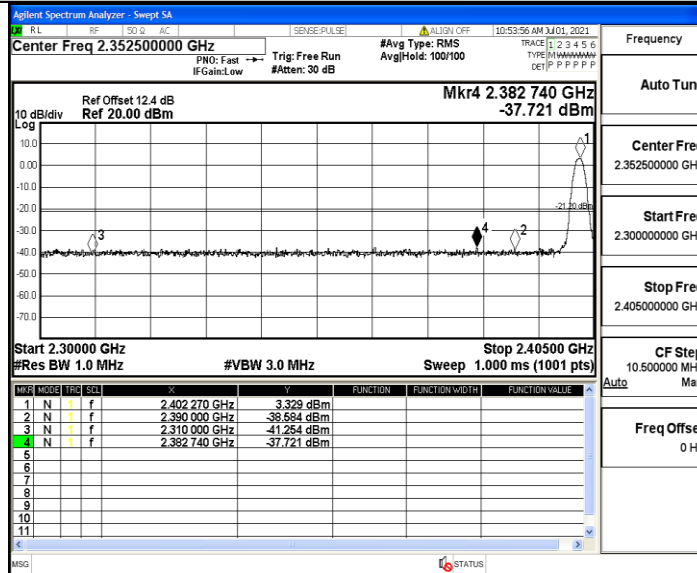
Frequency	Auto Tune
Center Freq	2.51000000 GHz
Start Freq	2.47000000 GHz
Stop Freq	2.55000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

2DH5_Ant1_Low_2402_AV



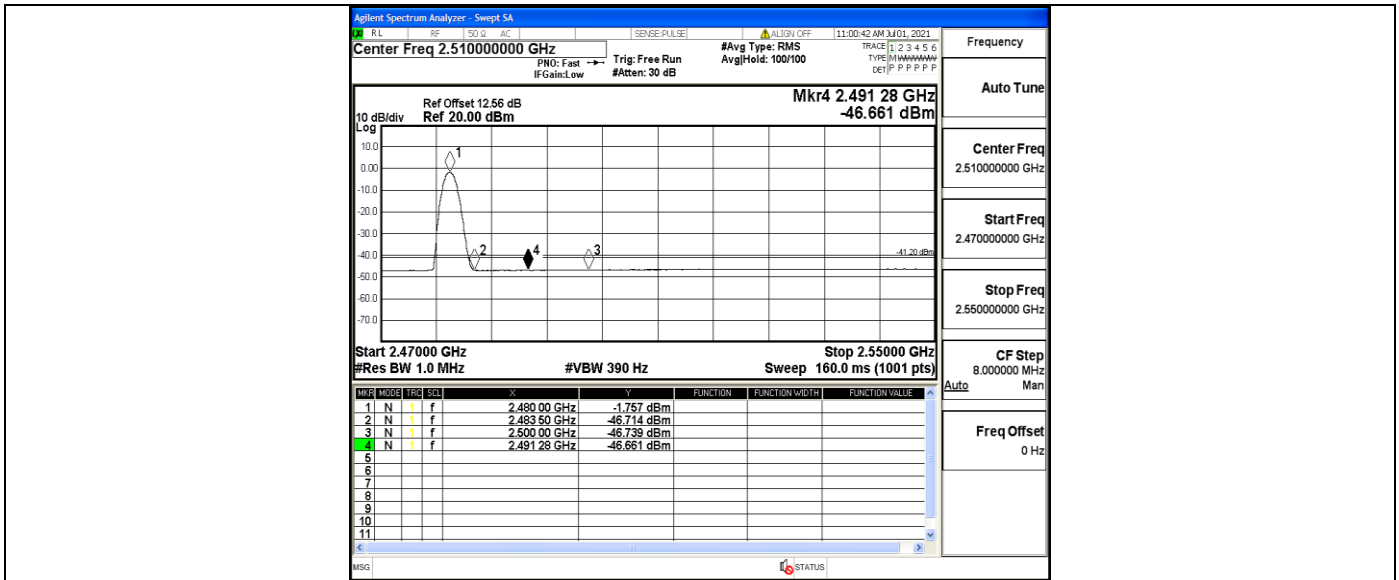
Frequency	Auto Tune
Center Freq	2.35250000 GHz
Start Freq	2.30000000 GHz
Stop Freq	2.40500000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

2DH5_Ant1_Low_2402_Peak

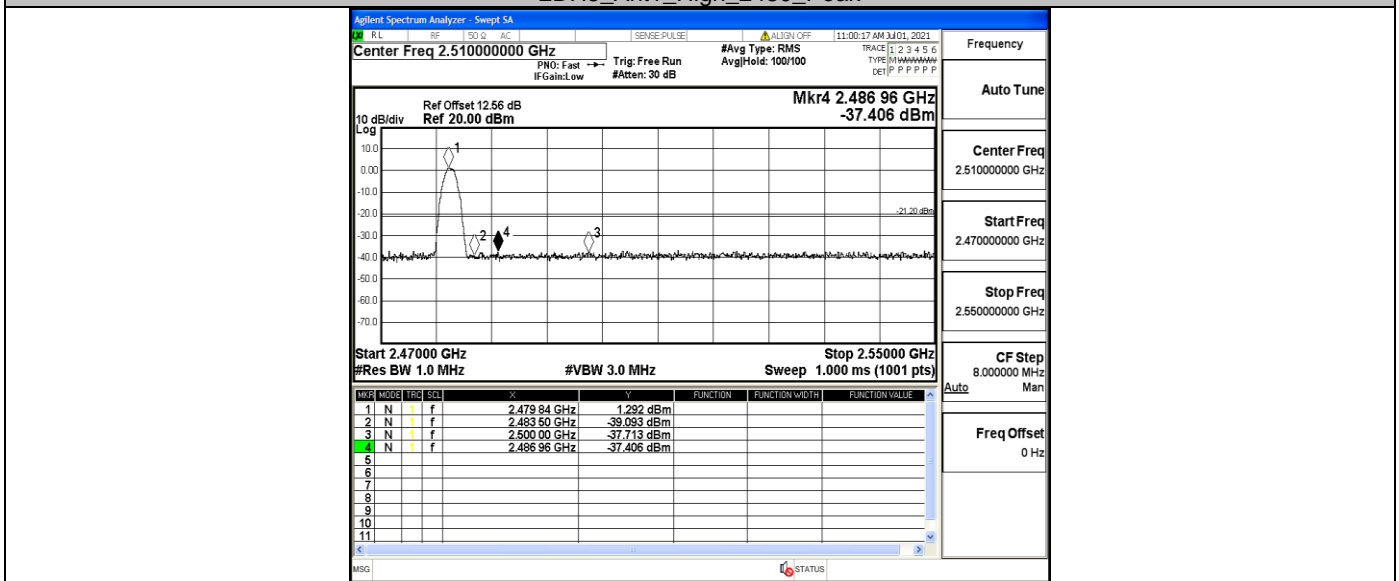


Frequency	Auto Tune
Center Freq	2.35250000 GHz
Start Freq	2.30000000 GHz
Stop Freq	2.40500000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

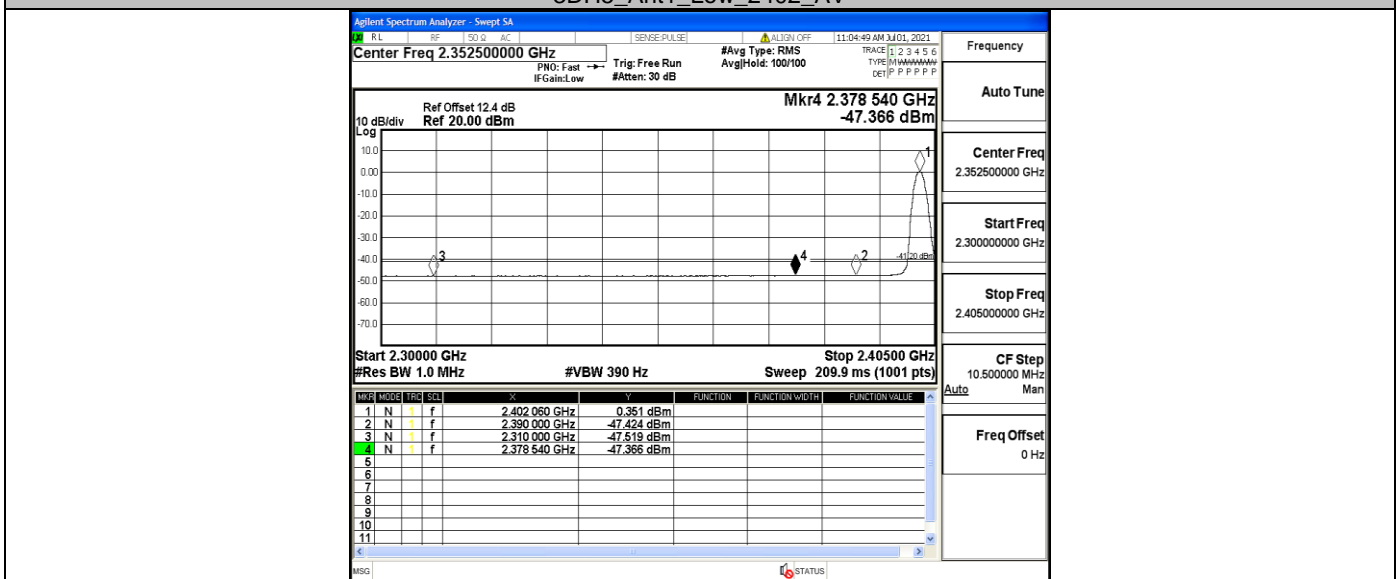
2DH5_Ant1_High_2480_AV



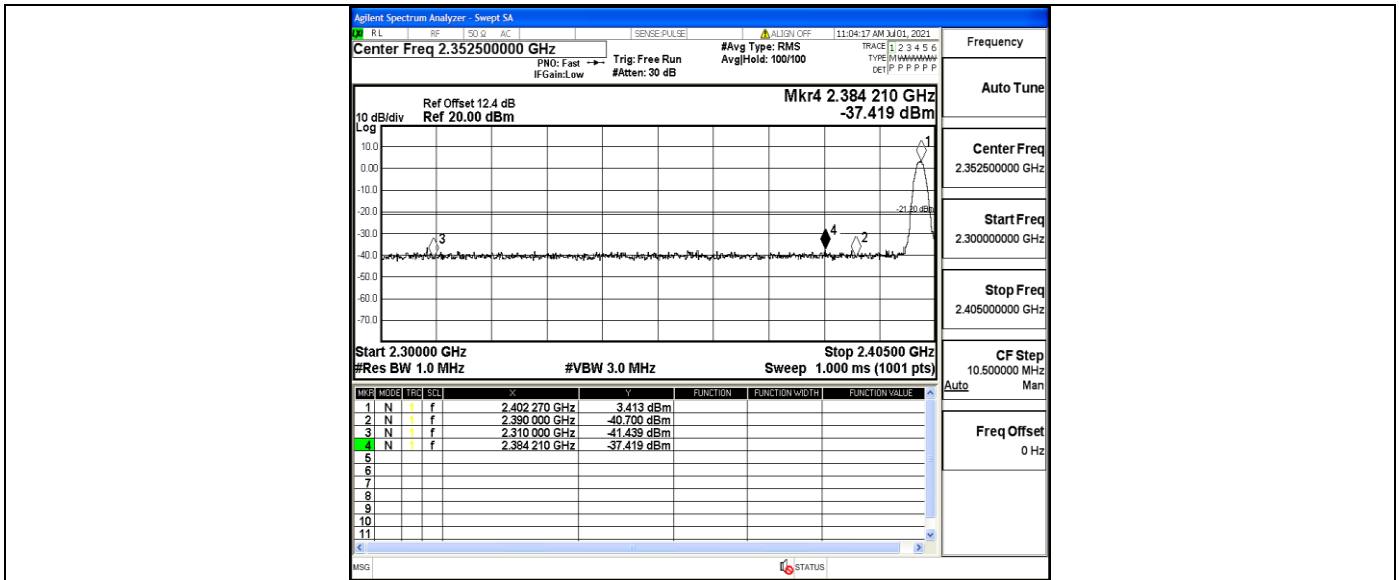
2DH5_Ant1_High_2480_Peak



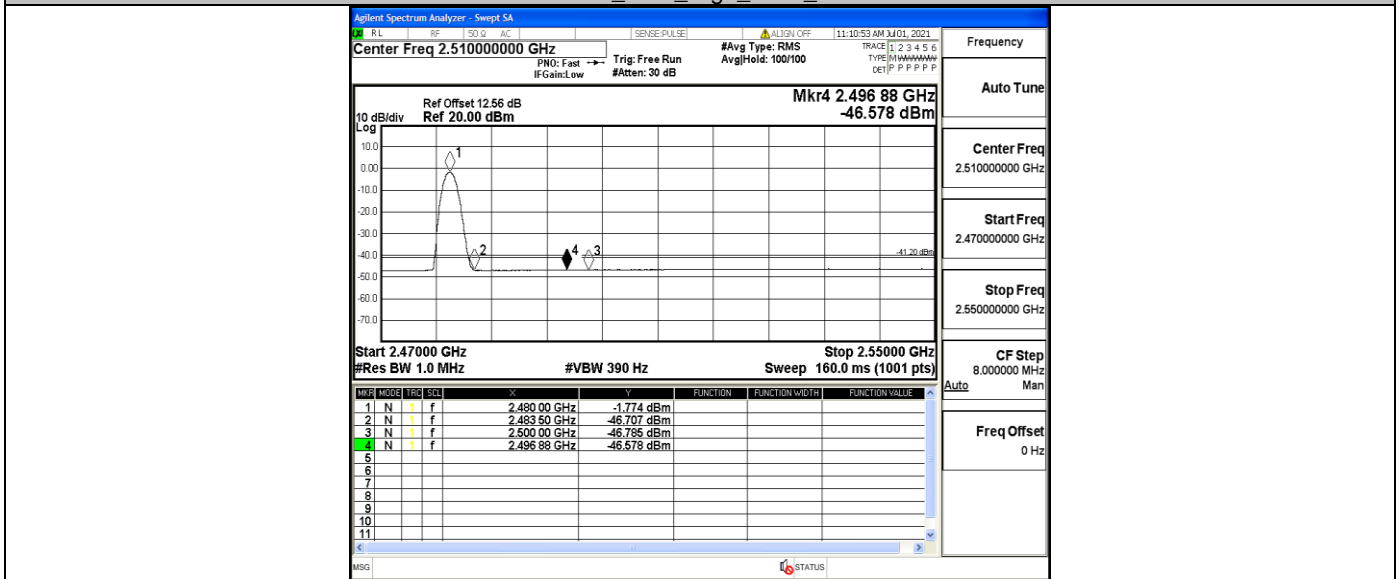
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

