

## Appendix A

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

Product Name: Mobile phone

Trade Mark: PCD

Test Model: P60

FCC ID: 2ALJJP60

### Environmental Conditions

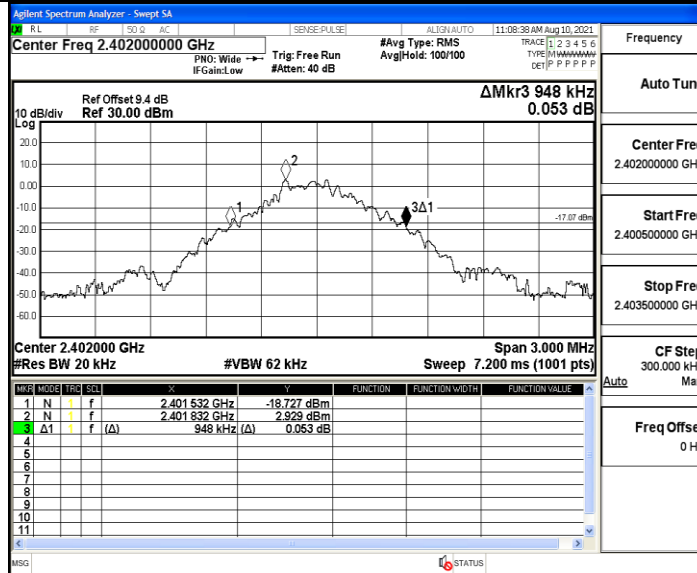
Temperature:	23.8℃
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

#### A.1 20 dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.532	2402.480	Not Specified	PASS
		2441	0.945	2440.532	2441.477	Not Specified	PASS
		2480	0.939	2479.535	2480.474	Not Specified	PASS
2DH5	Ant1	2402	1.314	2401.337	2402.651	Not Specified	PASS
		2441	1.332	2440.328	2441.660	Not Specified	PASS
		2480	1.332	2479.328	2480.660	Not Specified	PASS
3DH5	Ant1	2402	1.308	2401.340	2402.648	Not Specified	PASS
		2441	1.278	2440.346	2441.624	Not Specified	PASS
		2480	1.269	2479.352	2480.621	Not Specified	PASS

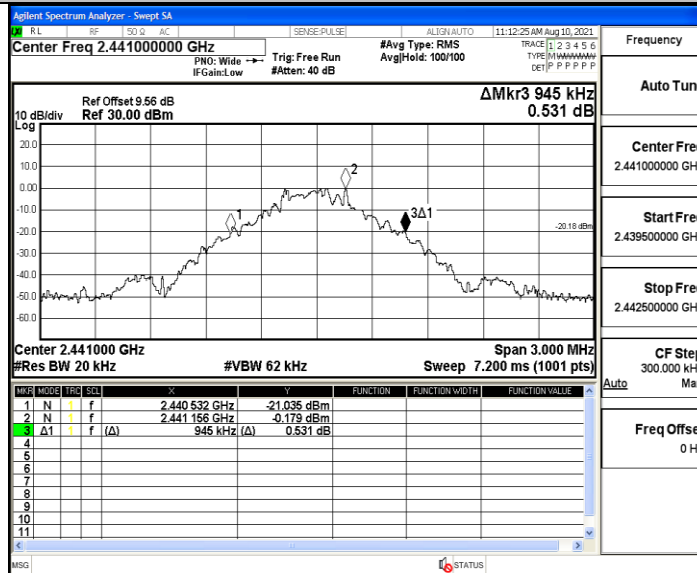
### Test Graph

#### DH5\_Ant1\_2402



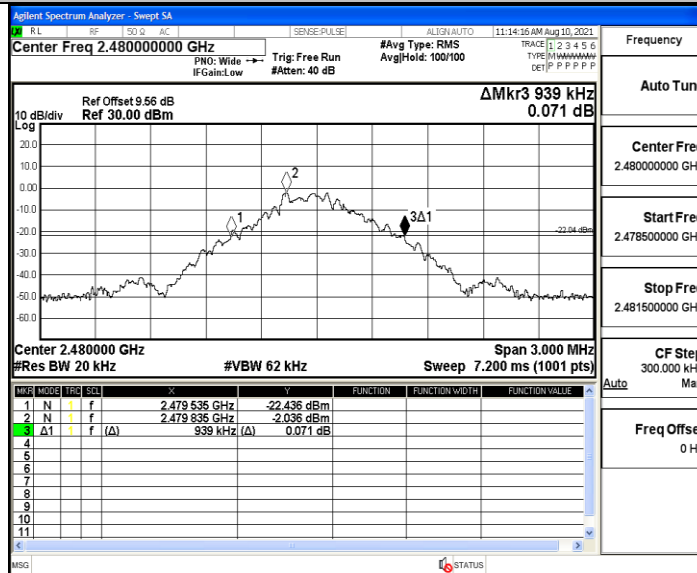
Frequency	Auto Tune
Center Freq	2.402000000 GHz
Start Freq	2.400500000 GHz
Stop Freq	2.403500000 GHz
CF Step	300.000 kHz
Auto	Man
Freq Offset	0 Hz

#### DH5\_Ant1\_2441



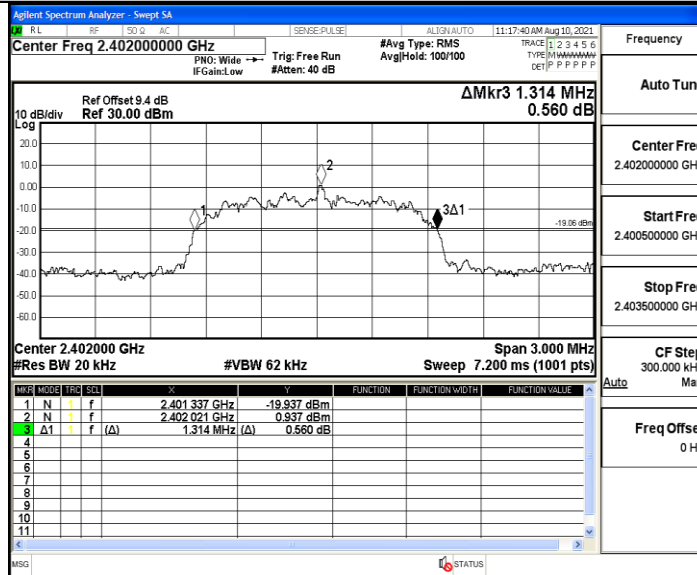
Frequency	Auto Tune
Center Freq	2.441000000 GHz
Start Freq	2.439500000 GHz
Stop Freq	2.442500000 GHz
CF Step	300.000 kHz
Auto	Man
Freq Offset	0 Hz

#### DH5\_Ant1\_2480

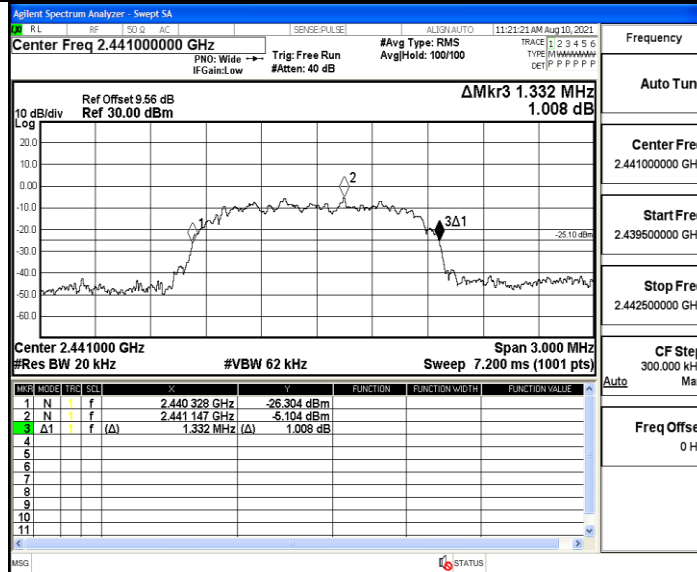


Frequency	Auto Tune
Center Freq	2.480000000 GHz
Start Freq	2.478500000 GHz
Stop Freq	2.481500000 GHz
CF Step	300.000 kHz
Auto	Man
Freq Offset	0 Hz

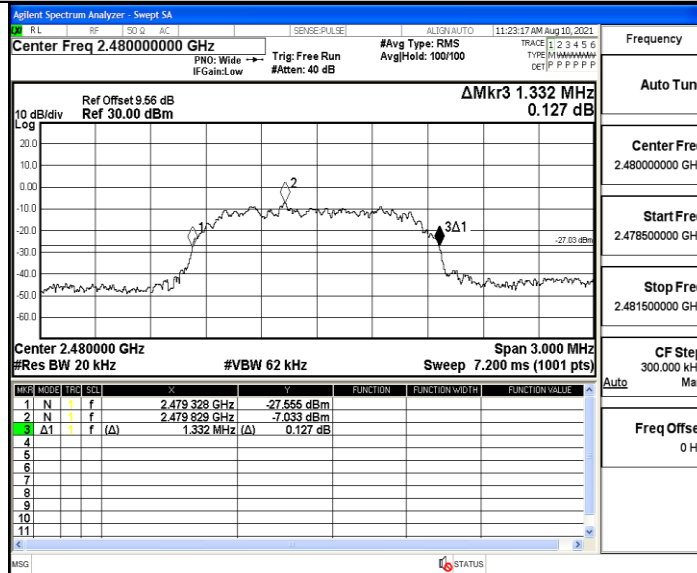
2DH5\_Ant1\_2402



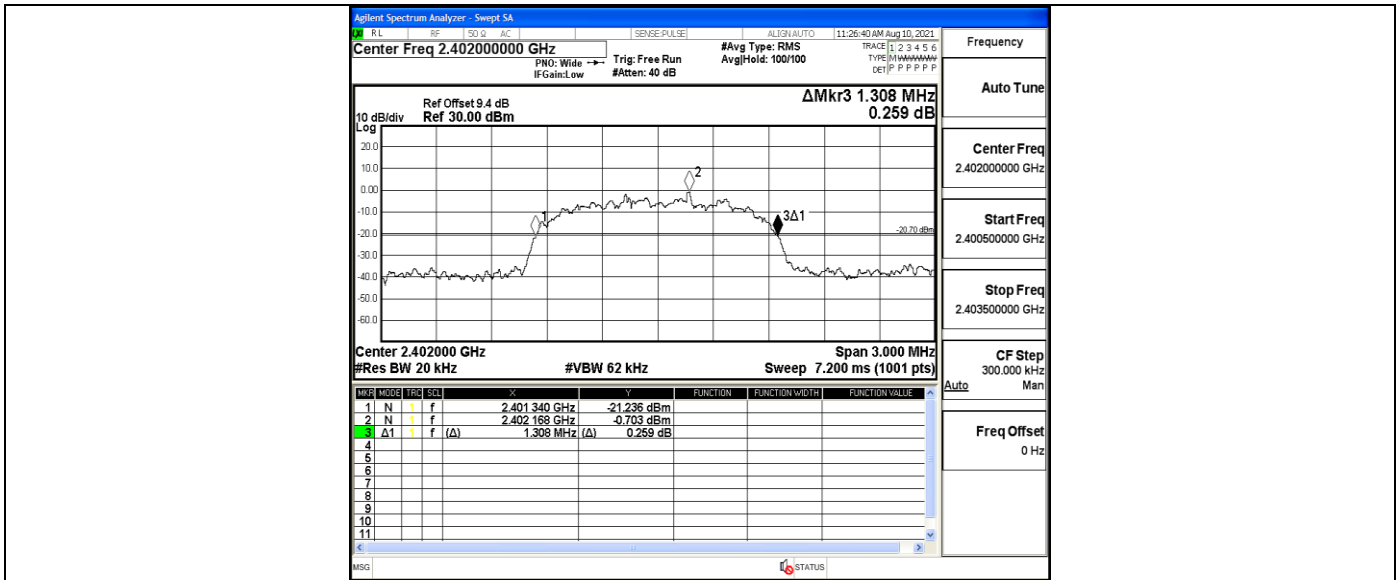
2DH5\_Ant1\_2441



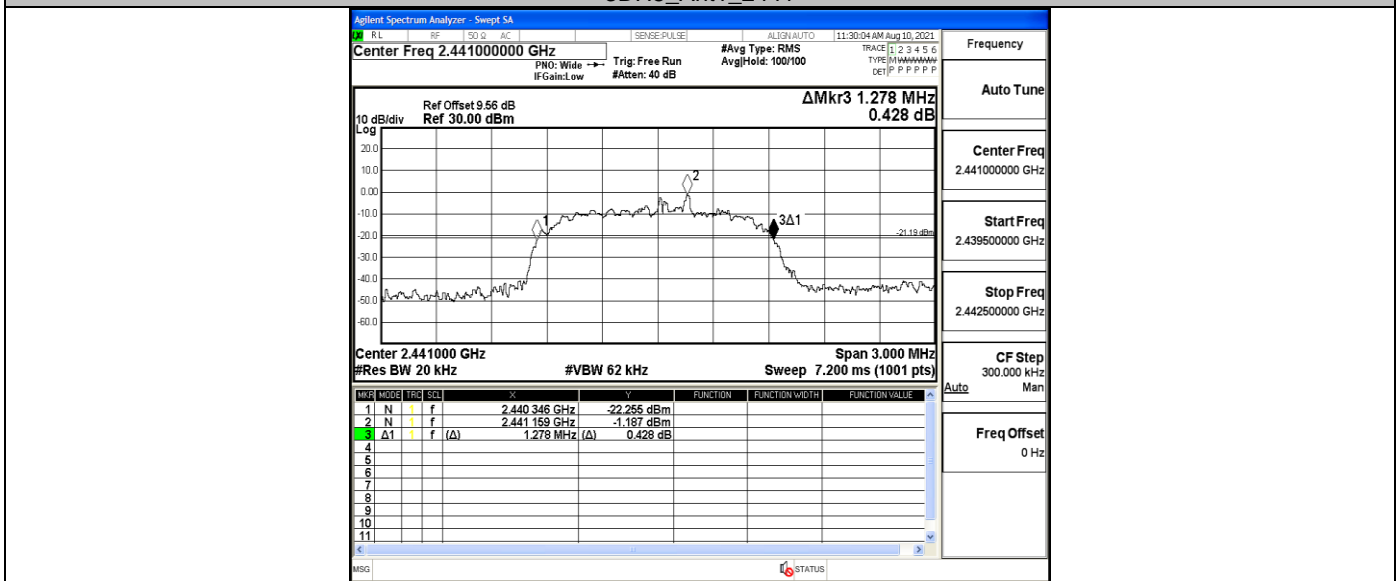
2DH5\_Ant1\_2480



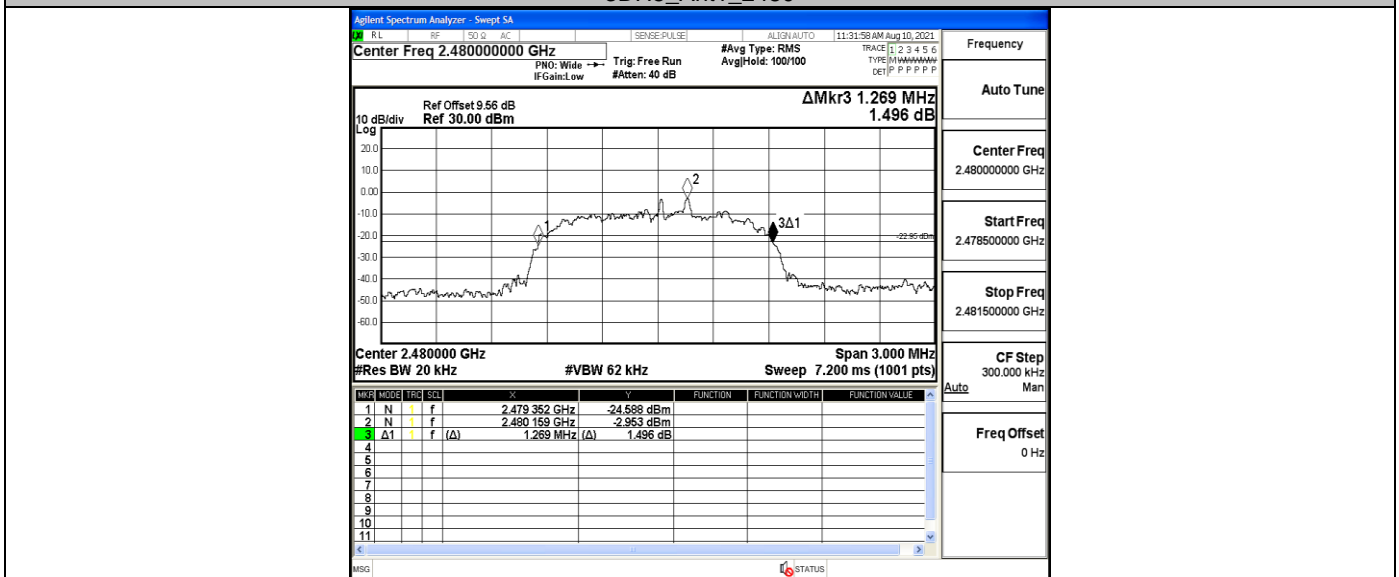
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



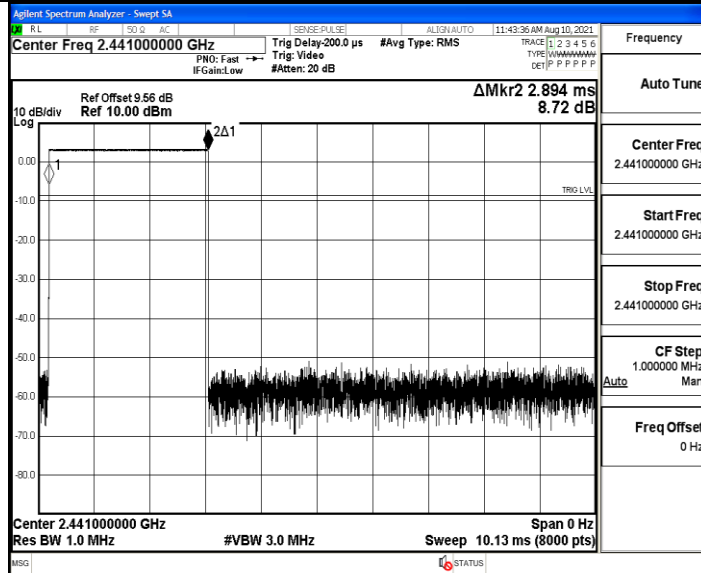
3DH5\_Ant1\_2480



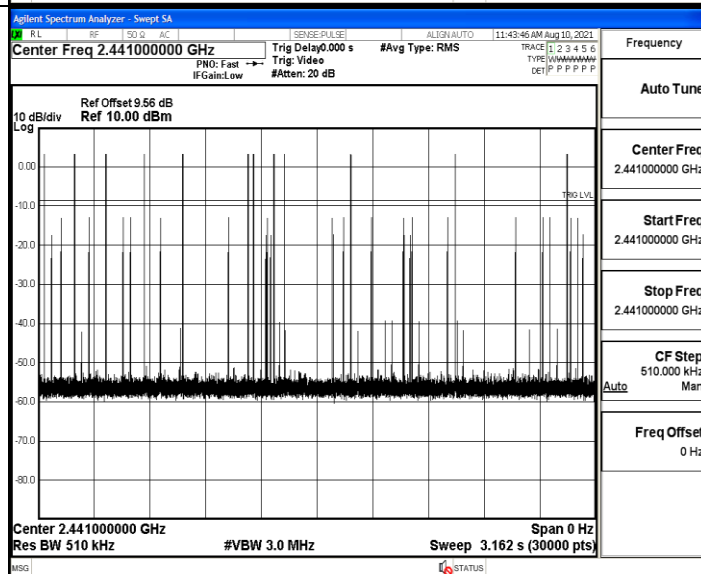
**A.2 Dwell Time**

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.89	130	0.376	≤0.4	PASS
2DH5	Ant1	Hop	2.88	80	0.231	≤0.4	PASS
3DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS

DH5\_Ant1\_Hop

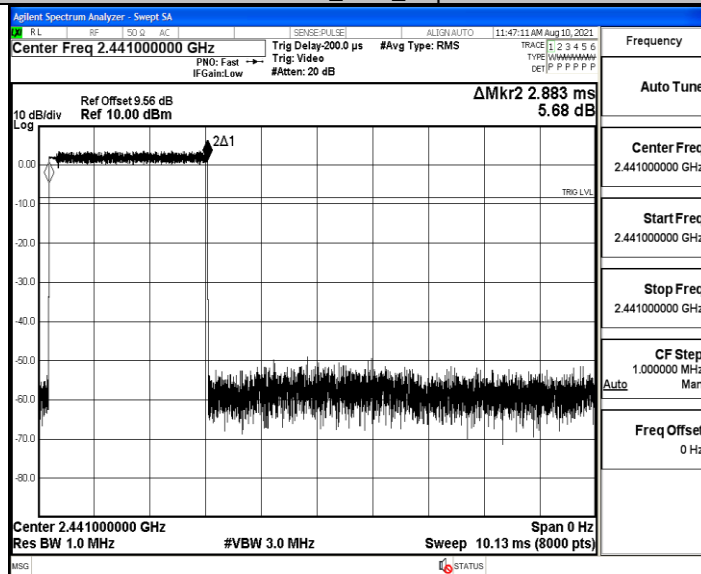


Frequency	Auto Tune
Center Freq	2.441000000 GHz
Start Freq	2.441000000 GHz
Stop Freq	2.441000000 GHz
CF Step	1.000000 MHz Auto Man
Freq Offset	0 Hz

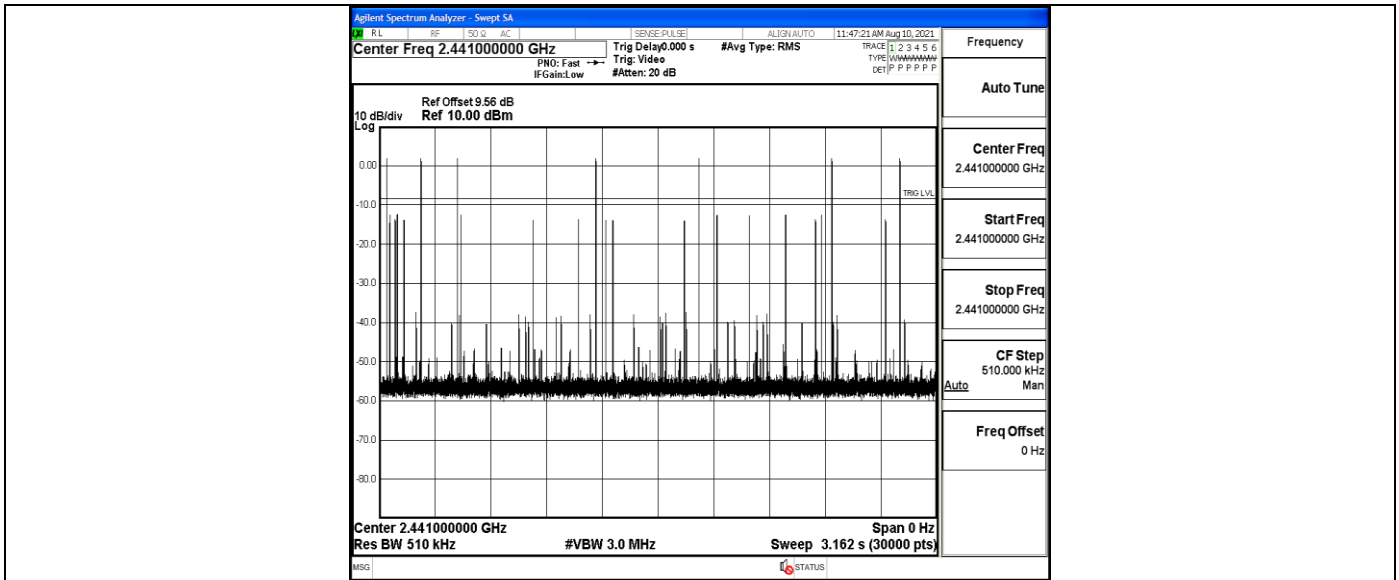


Frequency	Auto Tune
Center Freq	2.441000000 GHz
Start Freq	2.441000000 GHz
Stop Freq	2.441000000 GHz
CF Step	510.000 kHz Auto Man
Freq Offset	0 Hz

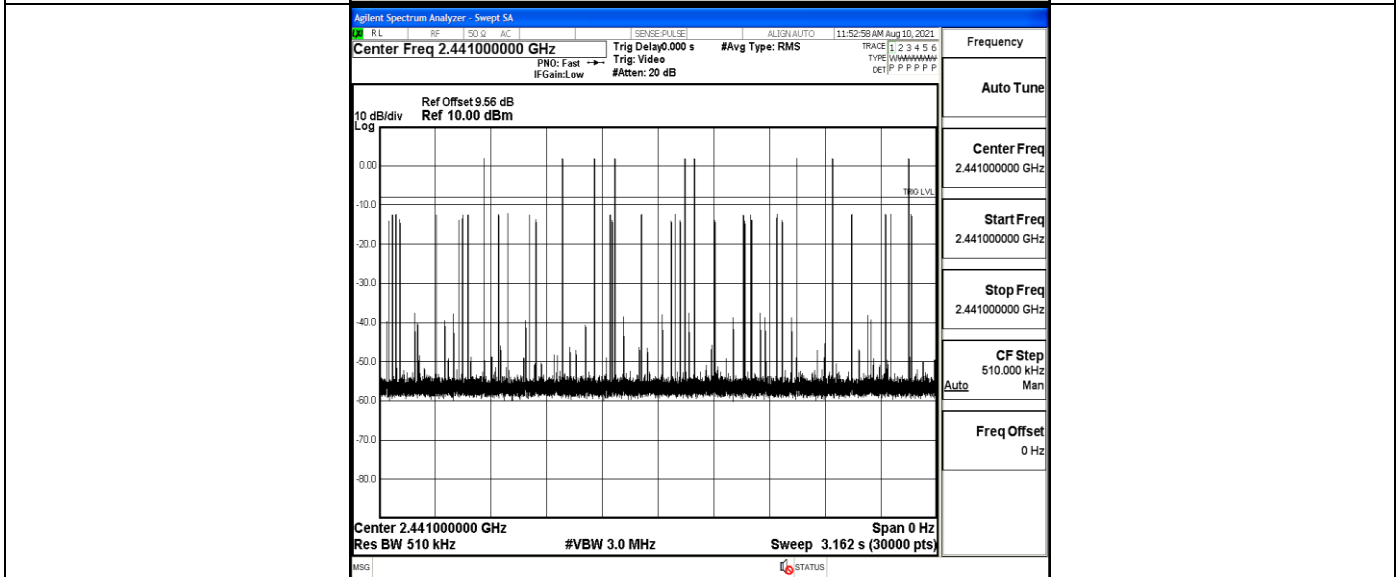
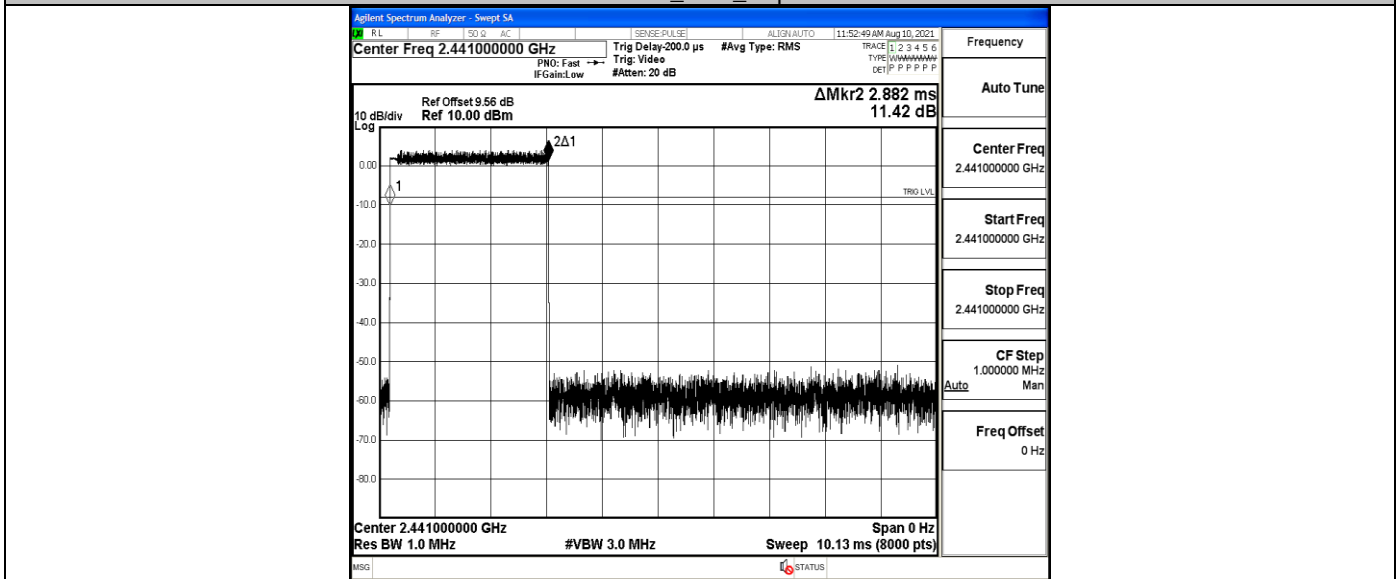
2DH5\_Ant1\_Hop



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



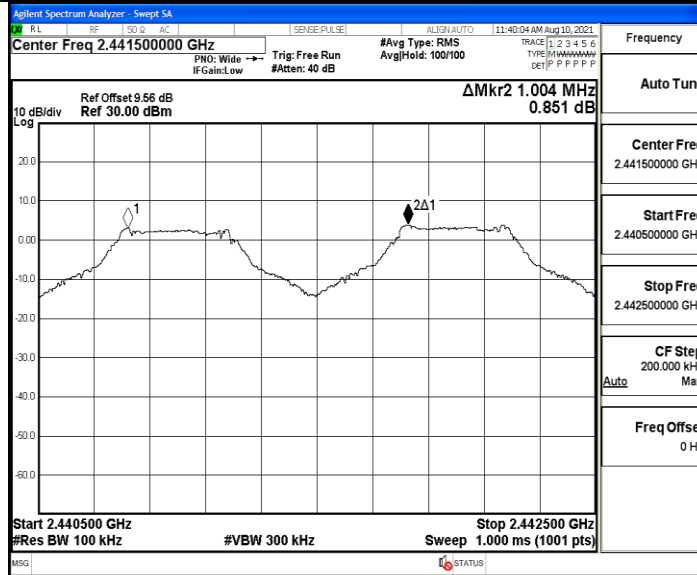
### A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.004	$\geq 0.948$	PASS
2DH5	Ant1	Hop	0.978	$\geq 0.888$	PASS
3DH5	Ant1	Hop	0.98	$\geq 0.872$	PASS

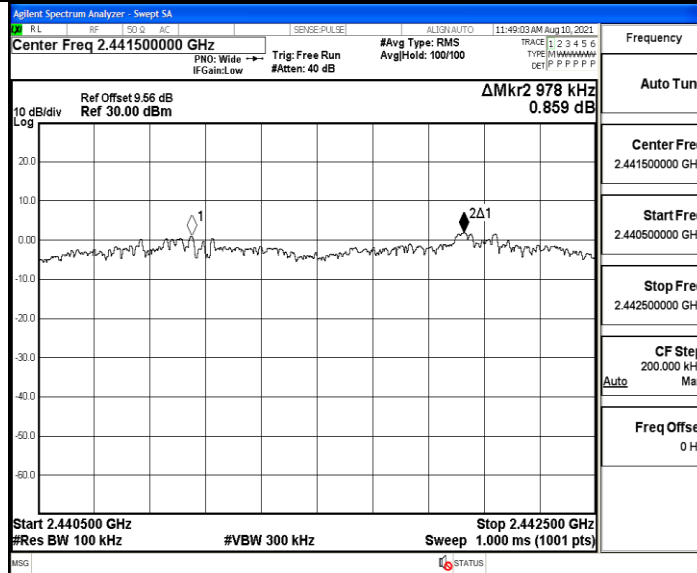


Test Graph

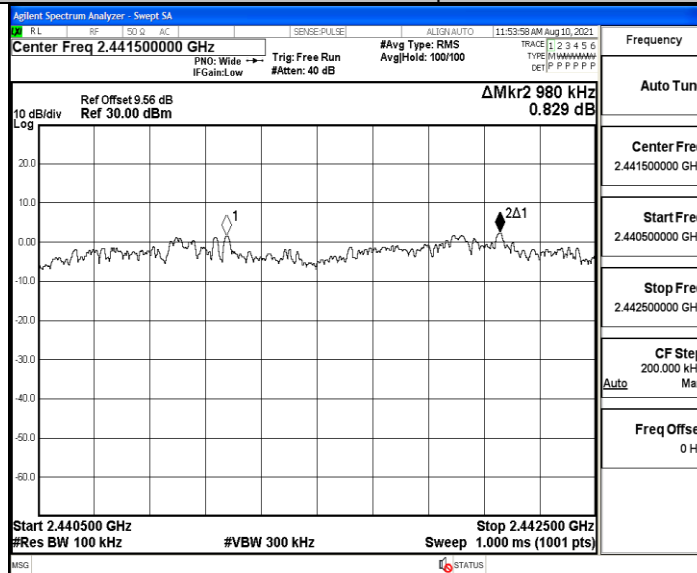
DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop



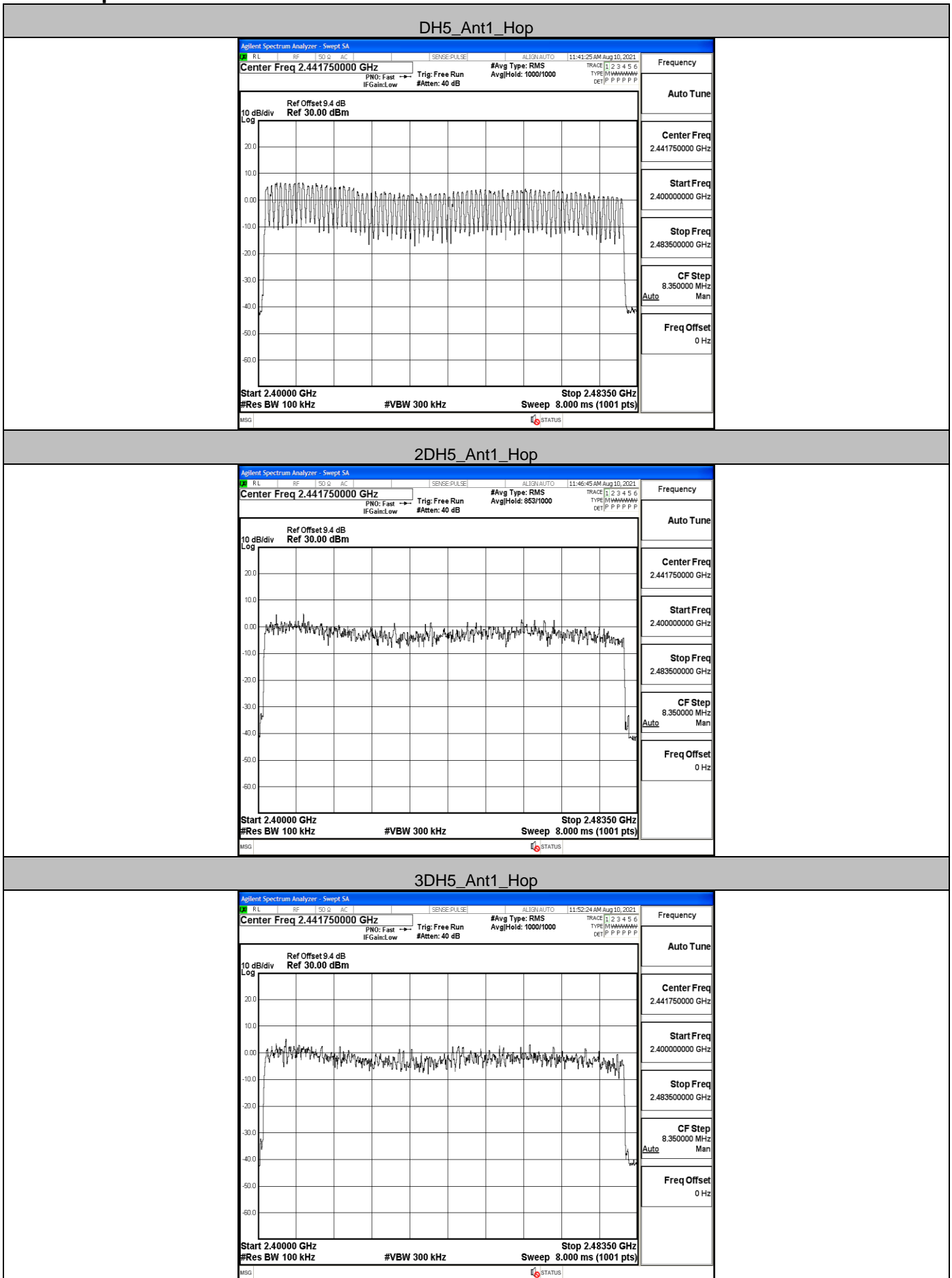
3DH5\_Ant1\_Hop



#### A.4 Hopping Channel Number

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

### Test Graph

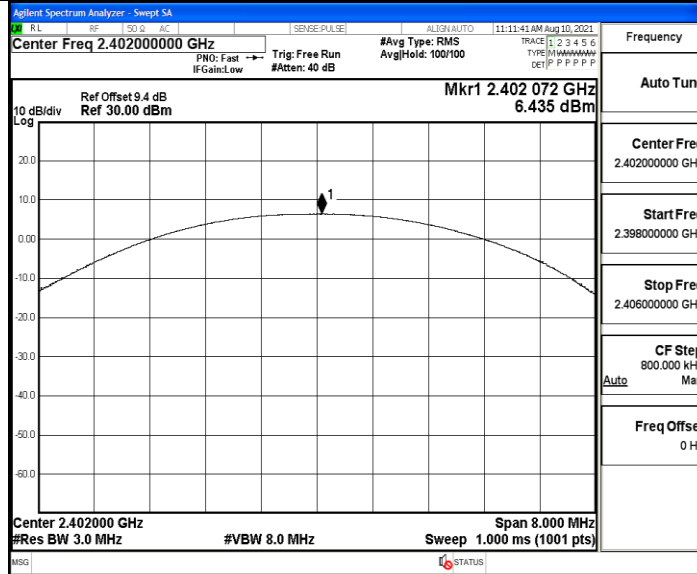


**A.5 Conducted Peak Output Power**

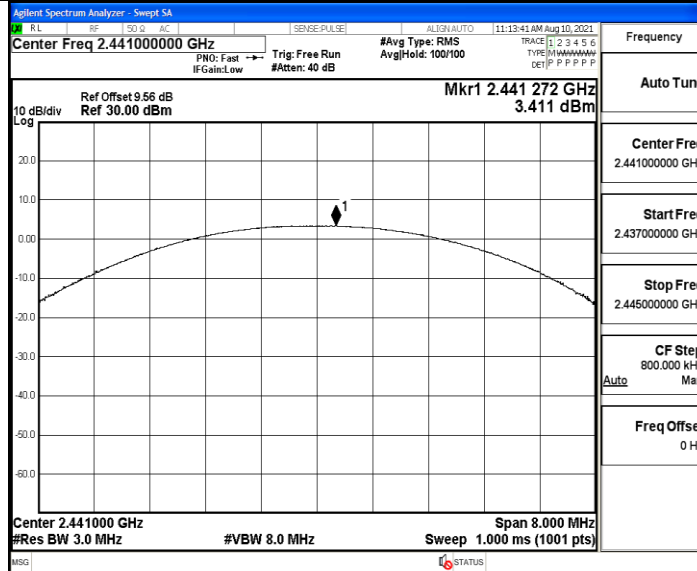
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	6.44	≤30.00	PASS
GFSK	MCH	3.41	≤30.00	PASS
GFSK	HCH	1.77	≤30.00	PASS
$\pi/4$ DQPSK	LCH	6.47	≤20.97	PASS
$\pi/4$ DQPSK	MCH	4.26	≤20.97	PASS
$\pi/4$ DQPSK	HCH	2.57	≤20.97	PASS
8DPSK	LCH	6.72	≤20.97	PASS
8DPSK	MCH	4.67	≤20.97	PASS
8DPSK	HCH	2.83	≤20.97	PASS

### Test Graph

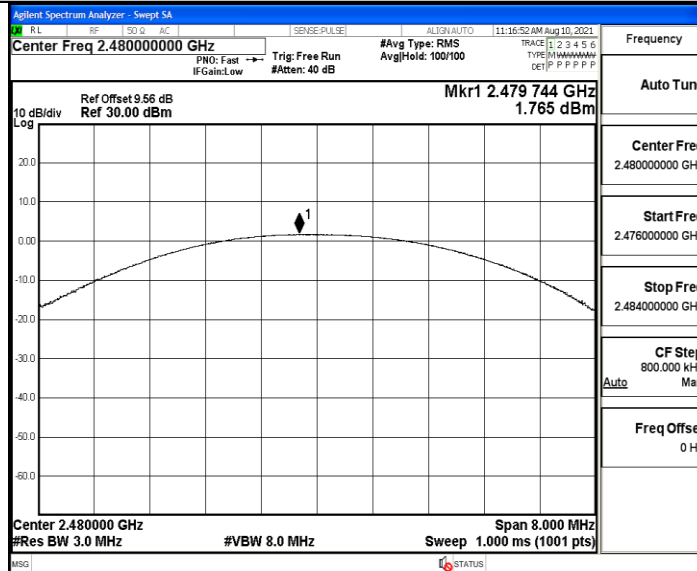
DH5\_Ant1\_2402



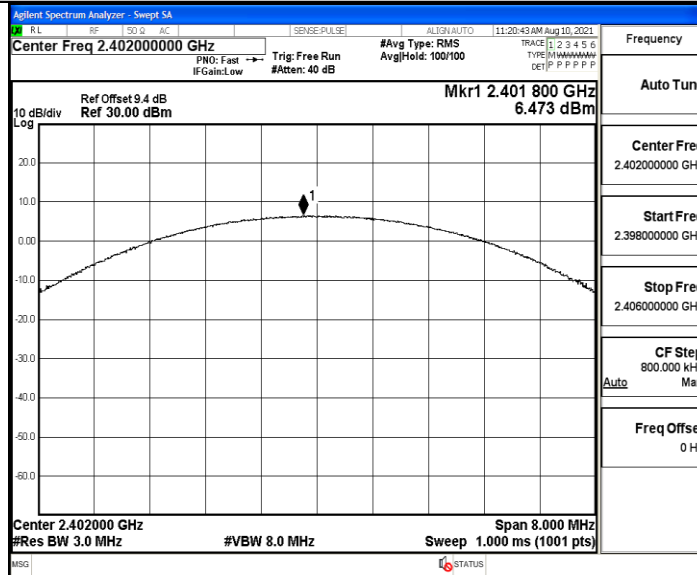
DH5\_Ant1\_2441



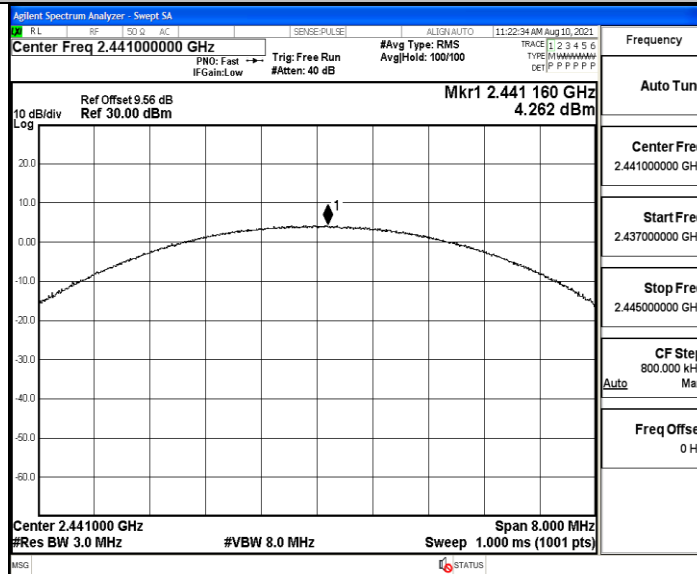
DH5\_Ant1\_2480



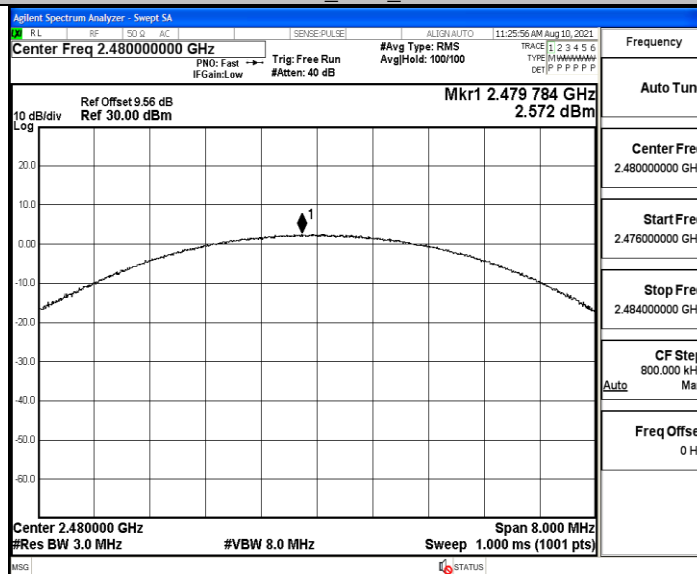
2DH5\_Ant1\_2402



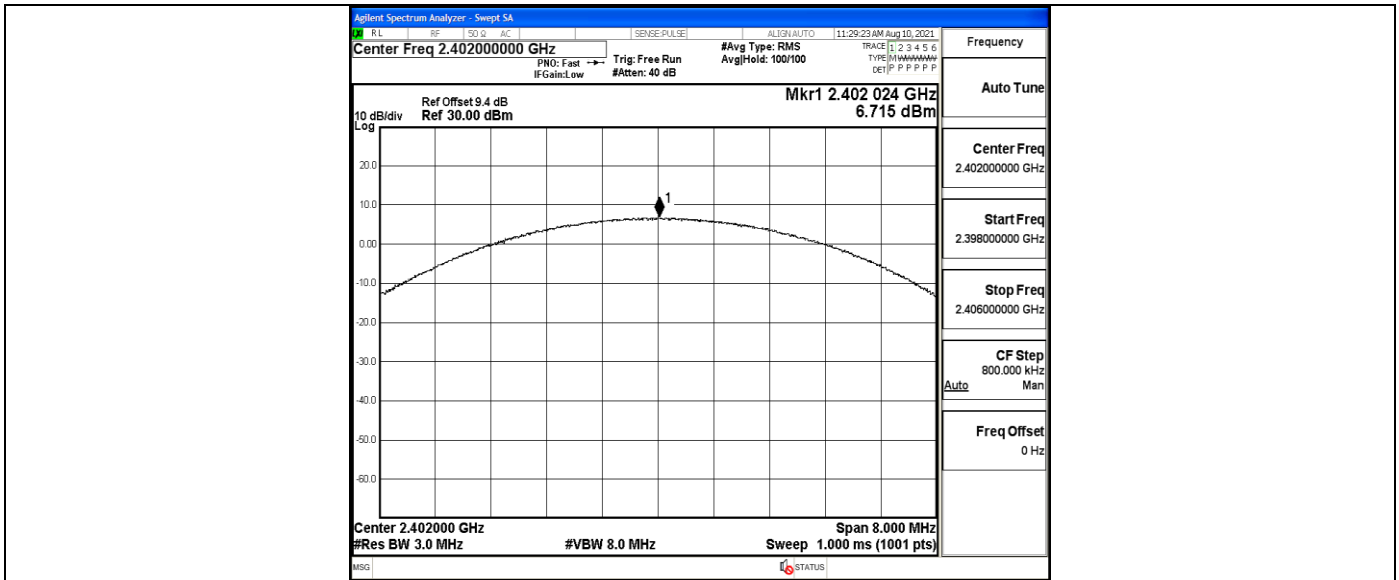
2DH5\_Ant1\_2441



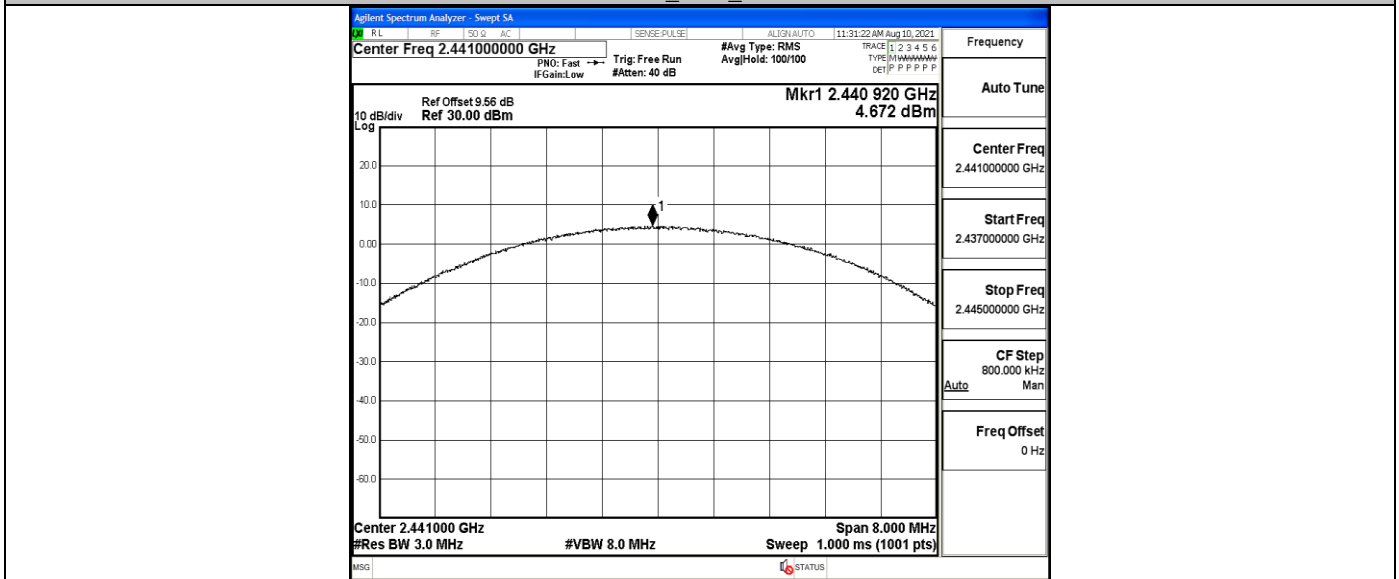
2DH5\_Ant1\_2480



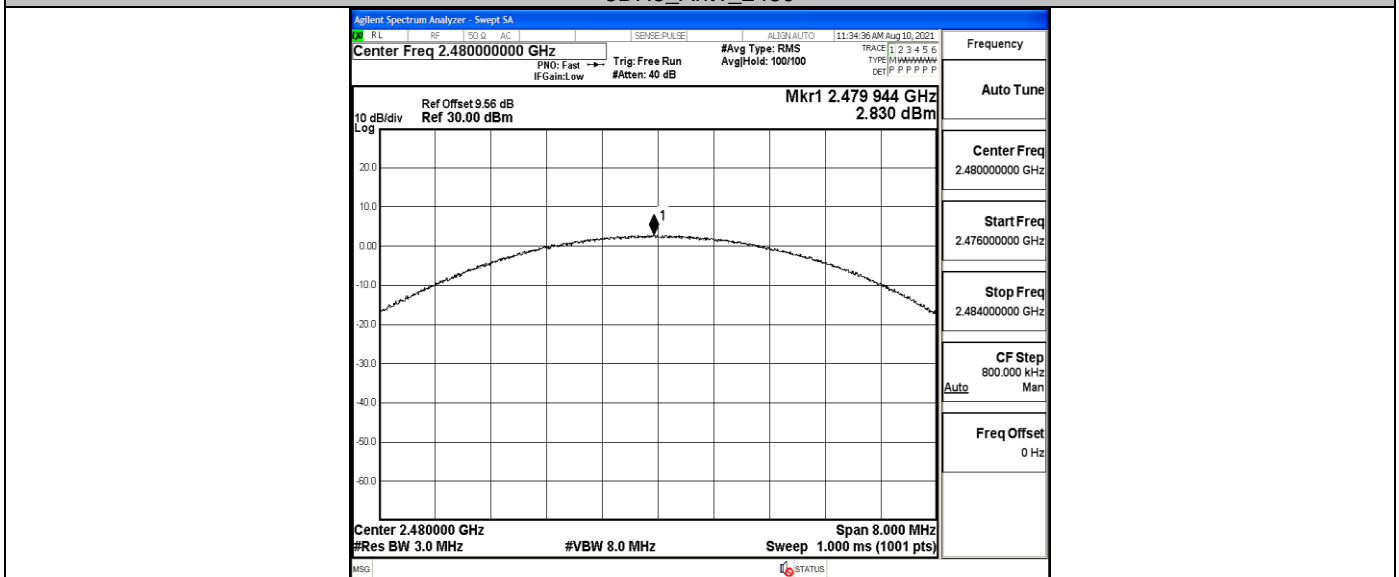
3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



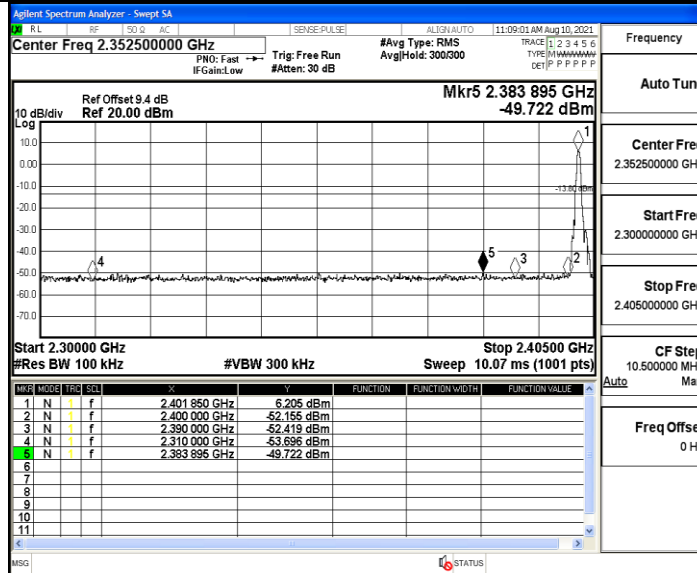
**A.6 Band-edge for RF Conducted Emissions**

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.21	-49.72	≤-13.8	PASS
		High	2480	1.53	-49.12	≤-18.47	PASS
		Low	Hop_2402	6.03	-50.52	≤-13.97	PASS
		High	Hop_2480	2.99	-48.66	≤-17.01	PASS
2DH5	Ant1	Low	2402	3.90	-43.27	≤-16.11	PASS
		High	2480	0.25	-48.58	≤-19.75	PASS
		Low	Hop_2402	1.82	-49.89	≤-18.18	PASS
		High	Hop_2480	-1.15	-48.51	≤-21.15	PASS
3DH5	Ant1	Low	2402	4.62	-44.25	≤-15.39	PASS
		High	2480	0.21	-49.07	≤-19.79	PASS
		Low	Hop_2402	2.16	-49.93	≤-17.84	PASS
		High	Hop_2480	-0.27	-48.98	≤-20.27	PASS

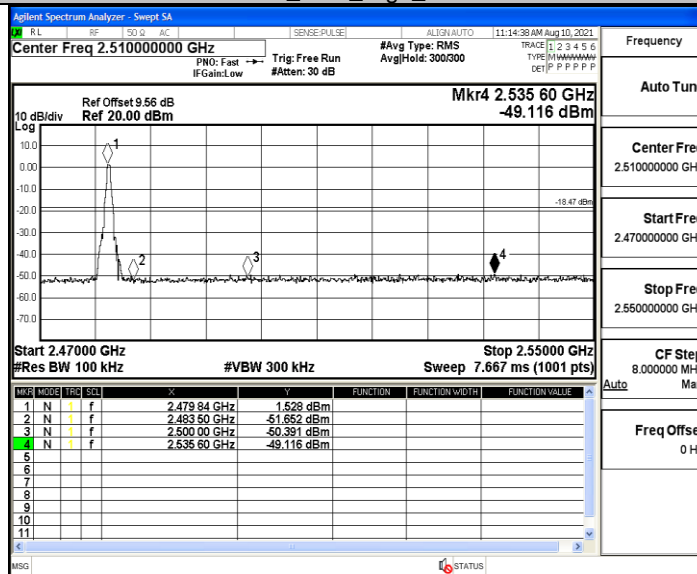


### Test Graph

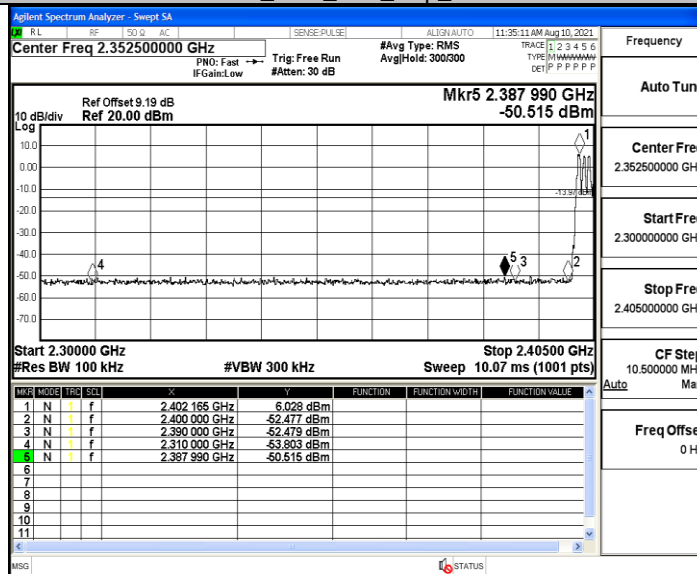
DH5\_Ant1\_Low\_2402



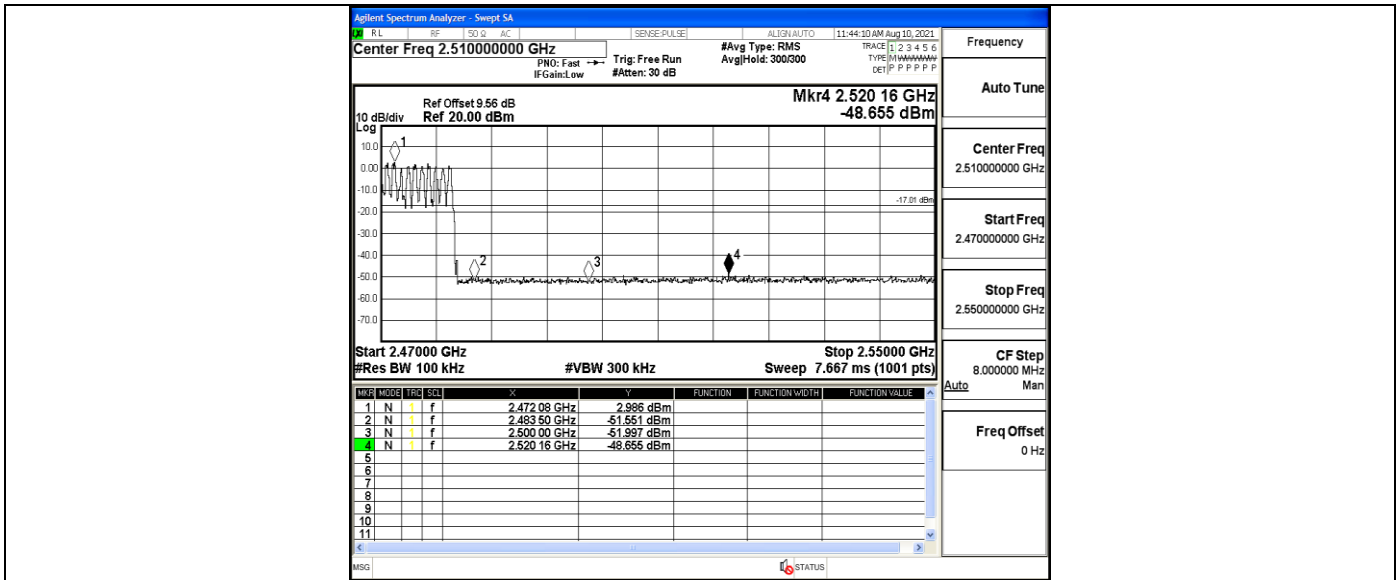
DH5\_Ant1\_High\_2480



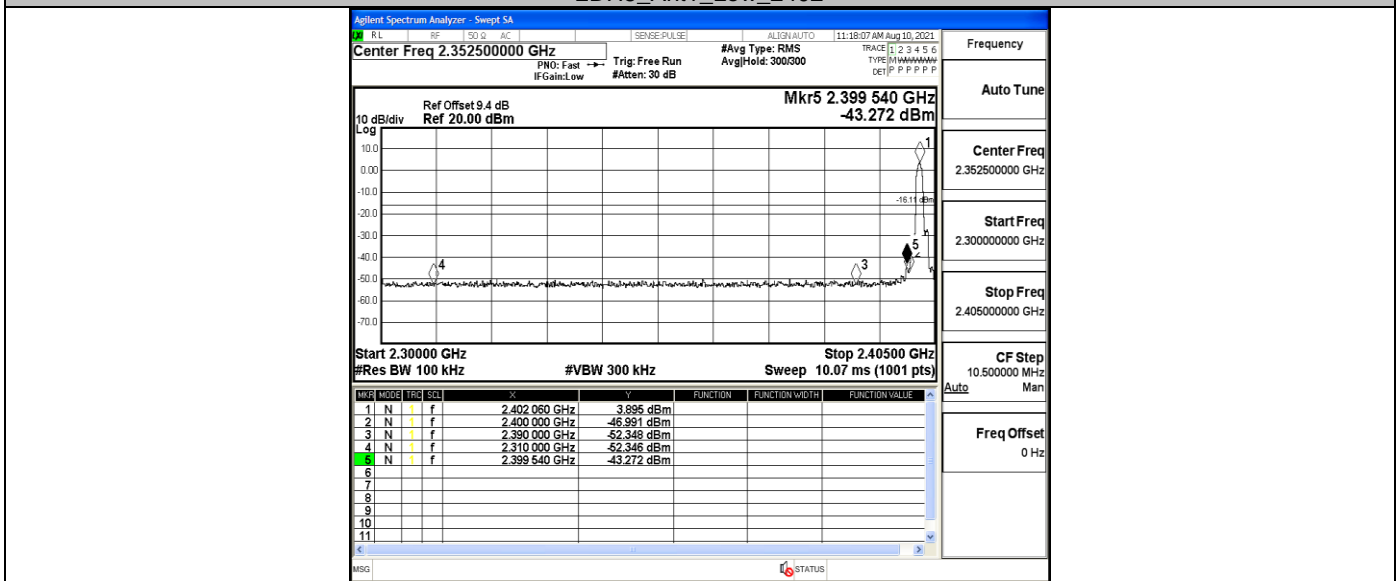
DH5\_Ant1\_Low\_Hop\_2402



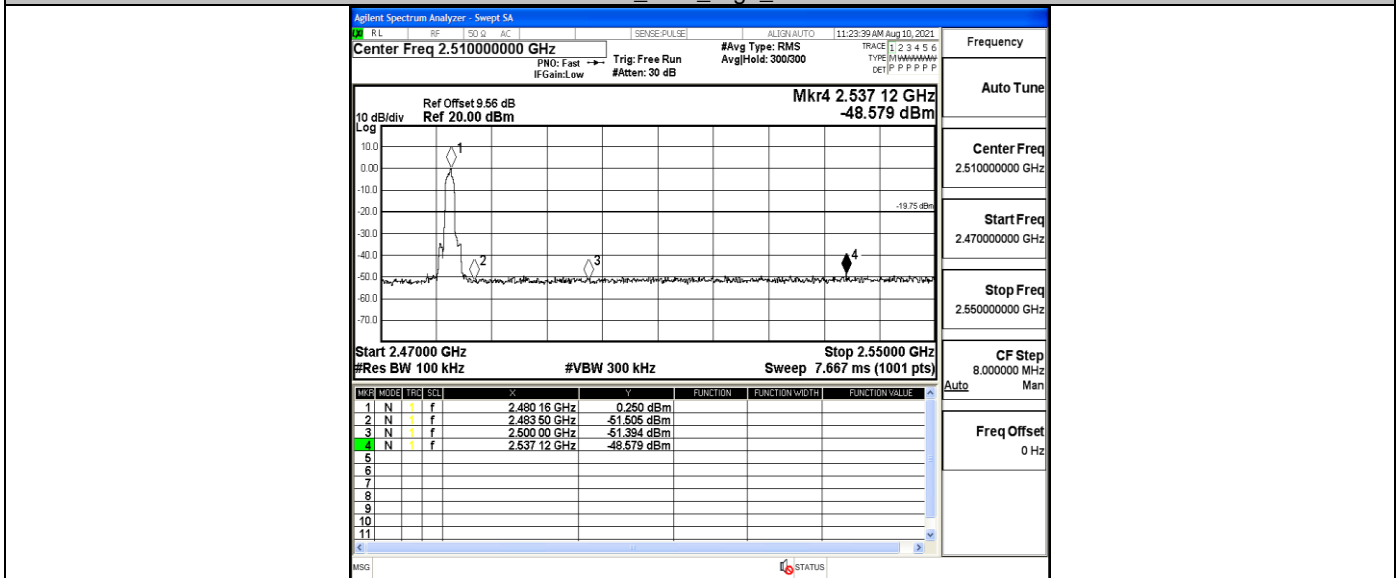
DH5\_Ant1\_High\_Hop\_2480



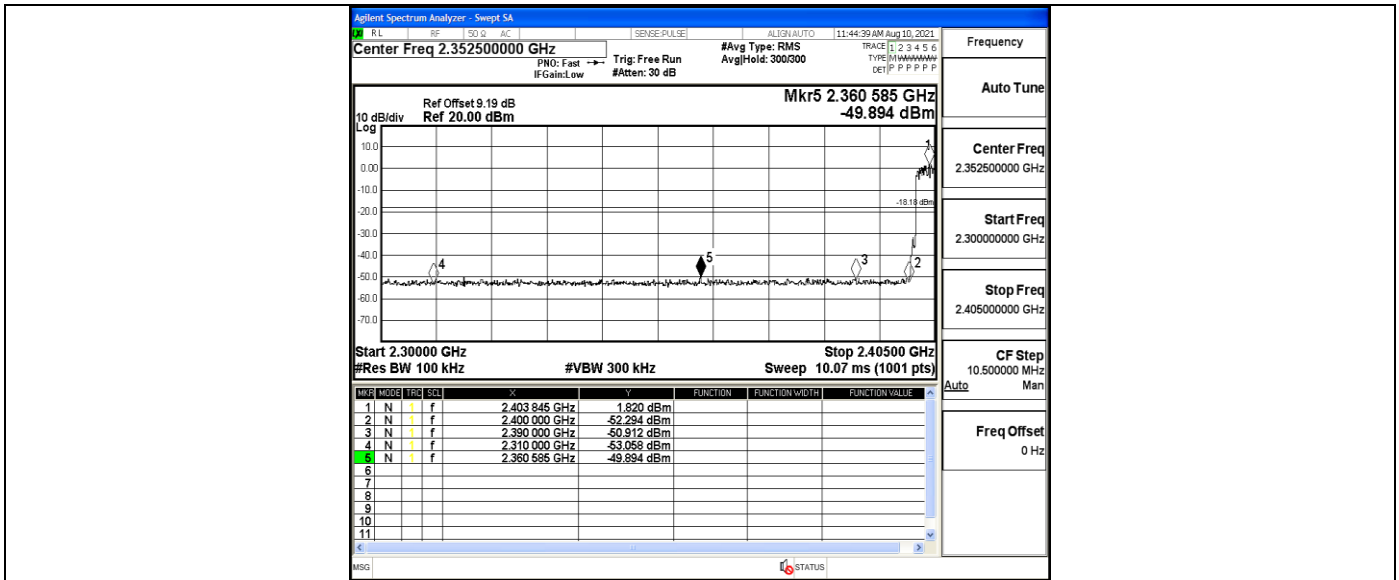
2DH5\_Ant1\_Low\_2402



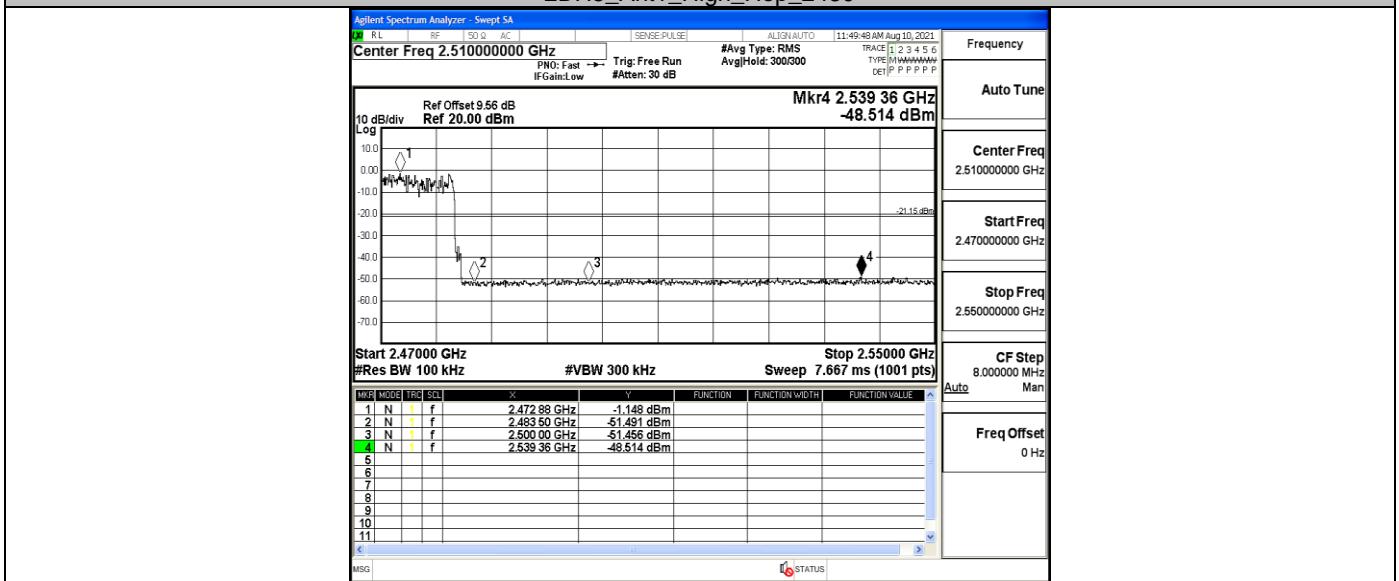
2DH5\_Ant1\_High\_2480



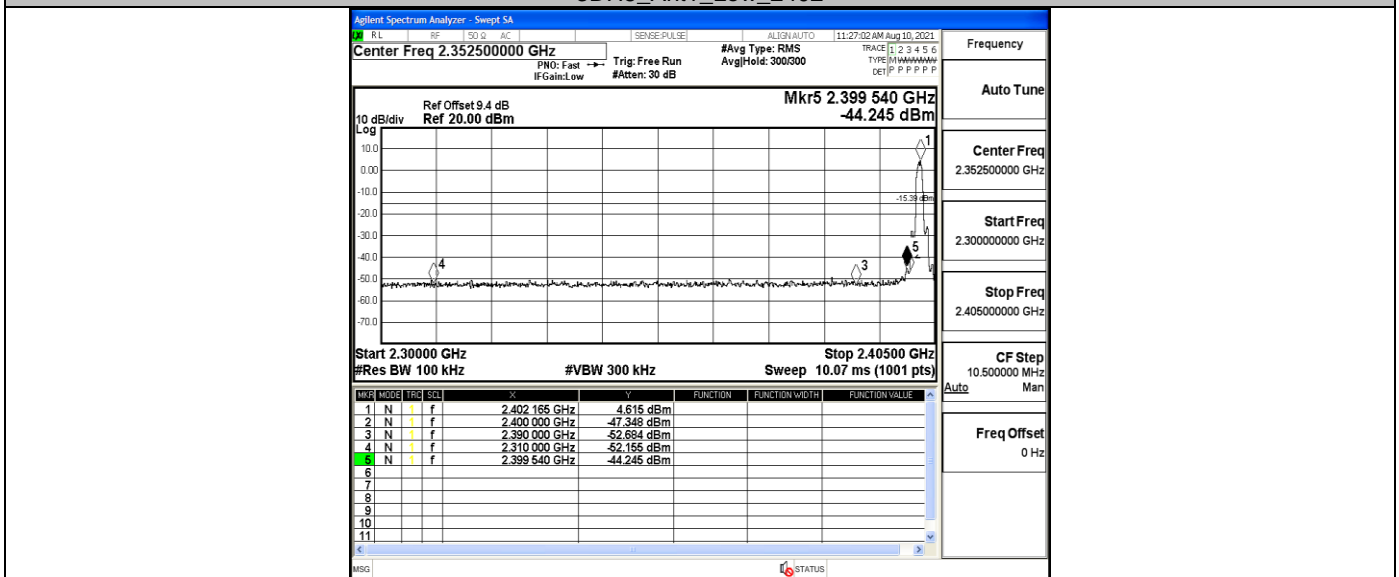
2DH5\_Ant1\_Low\_Hop\_2402



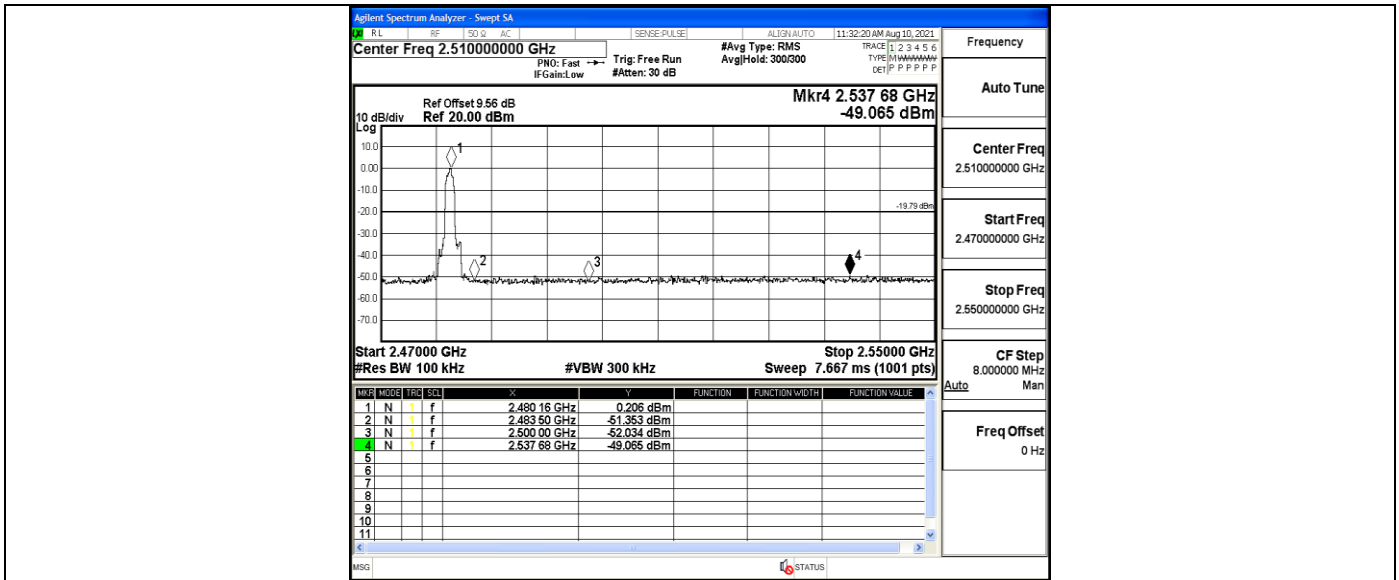
2DH5\_Ant1\_High\_Hop\_2480



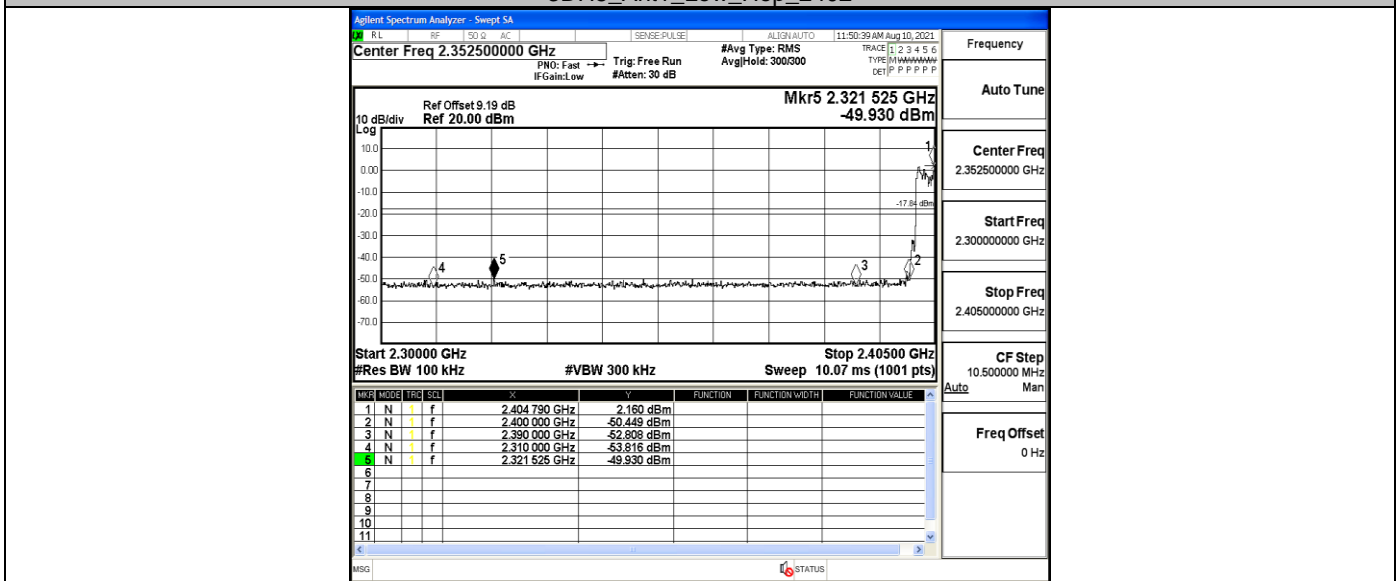
3DH5\_Ant1\_Low\_2402



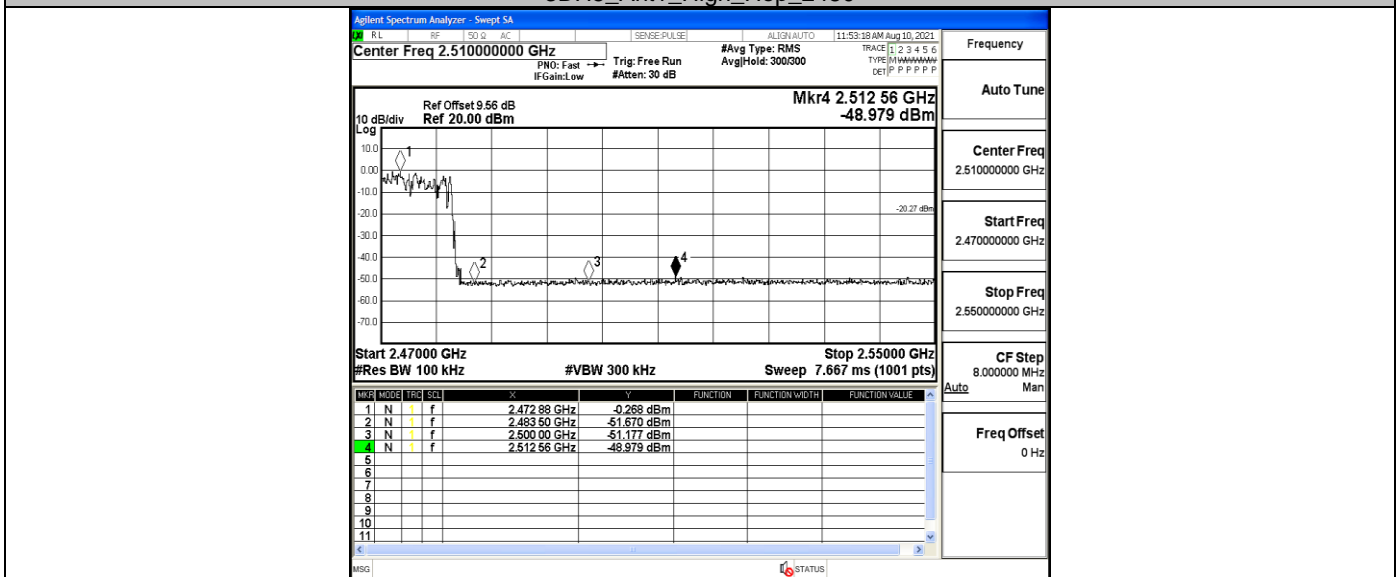
3DH5\_Ant1\_High\_2480



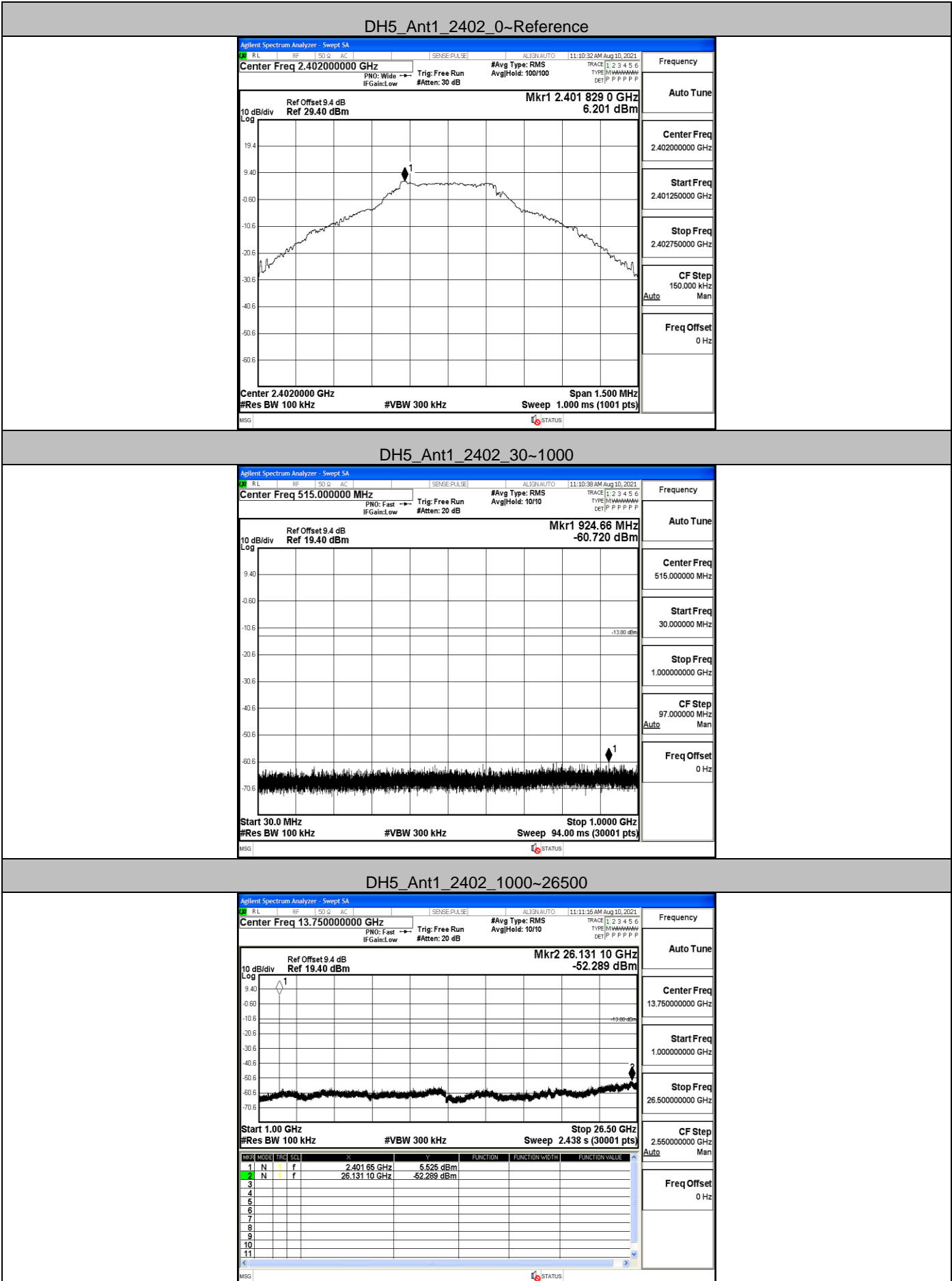
3DH5\_Ant1\_Low\_Hop\_2402



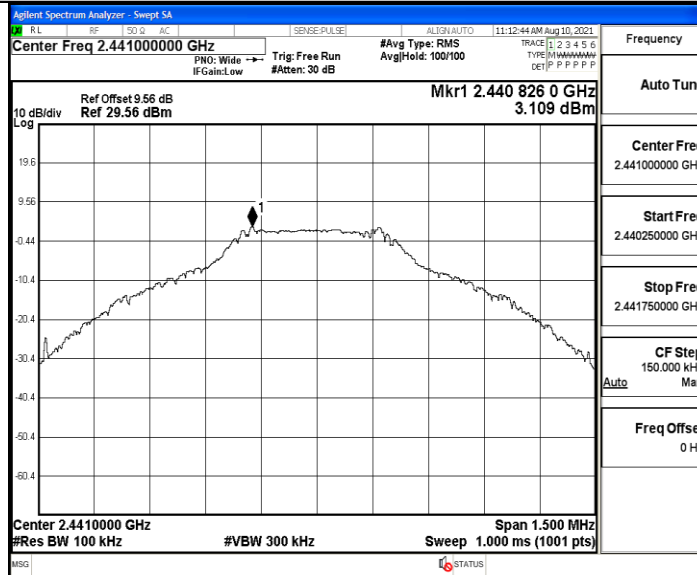
3DH5\_Ant1\_High\_Hop\_2480



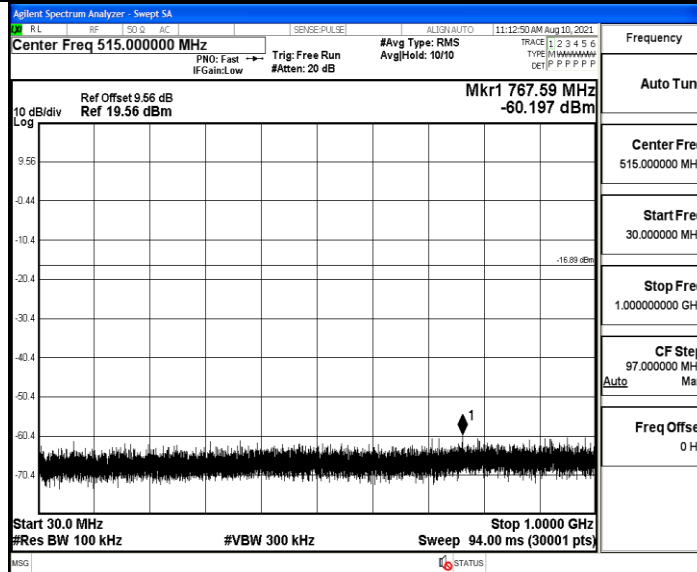
### A.7 RF Conducted Spurious Emissions



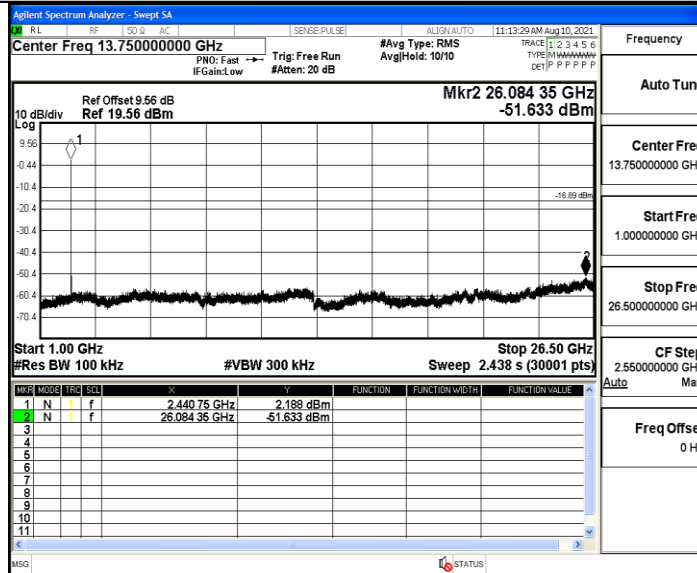
DH5\_Ant1\_2441\_0~Reference



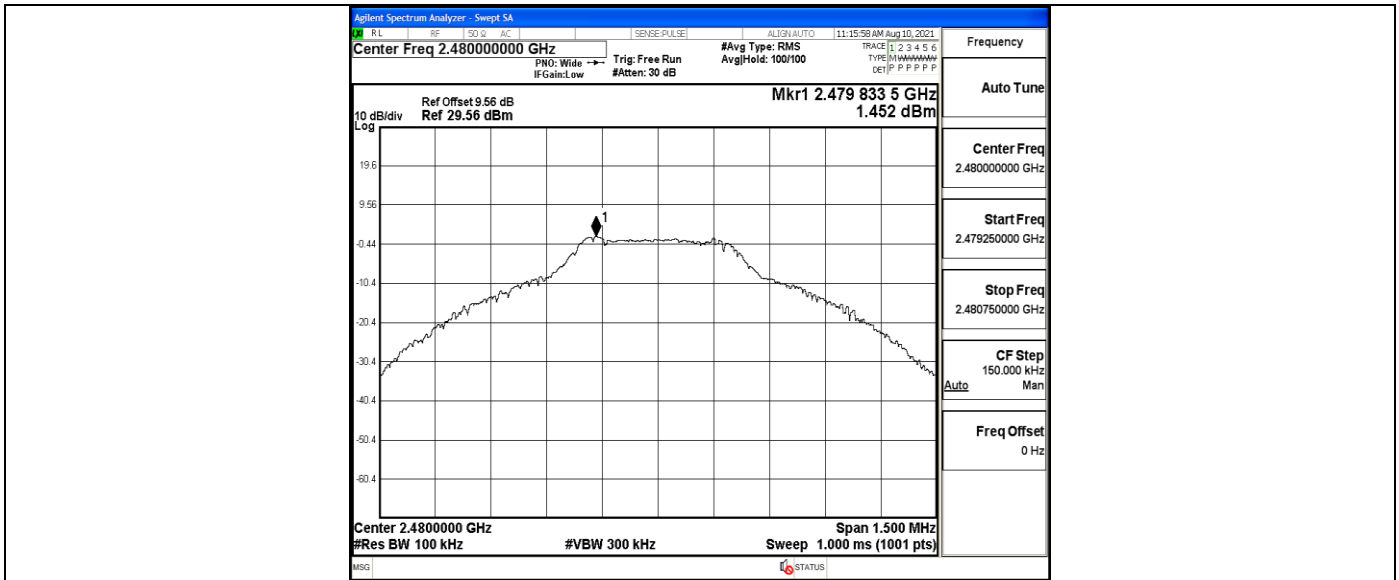
DH5\_Ant1\_2441\_30~1000



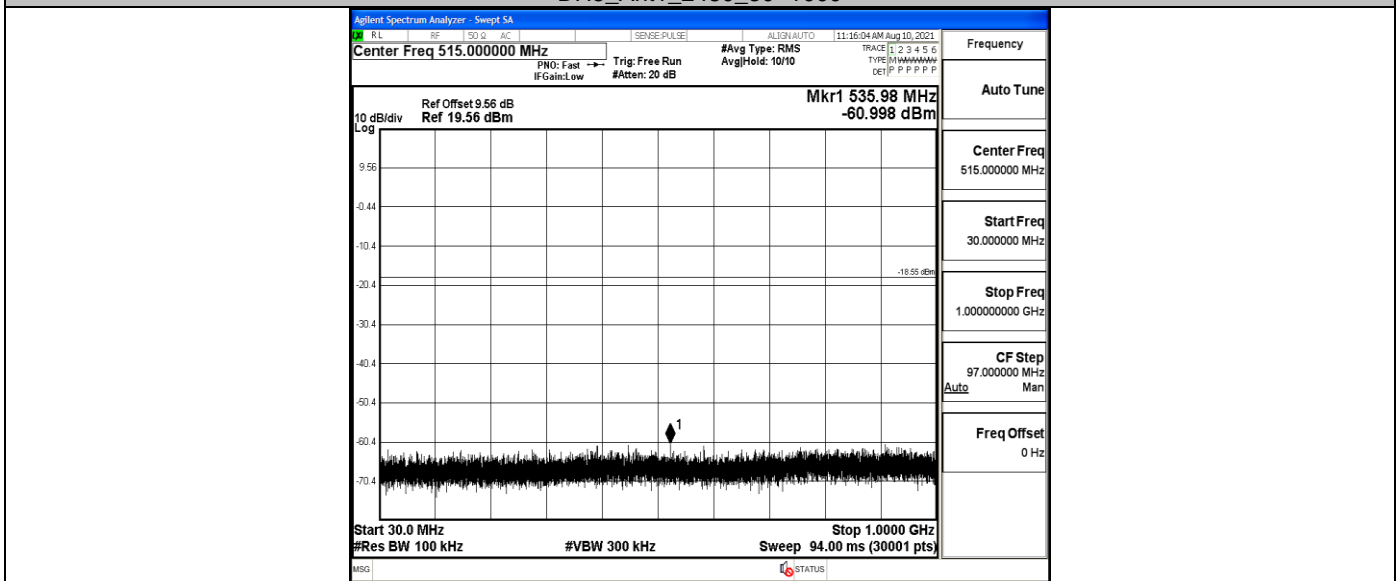
DH5\_Ant1\_2441\_1000~26500



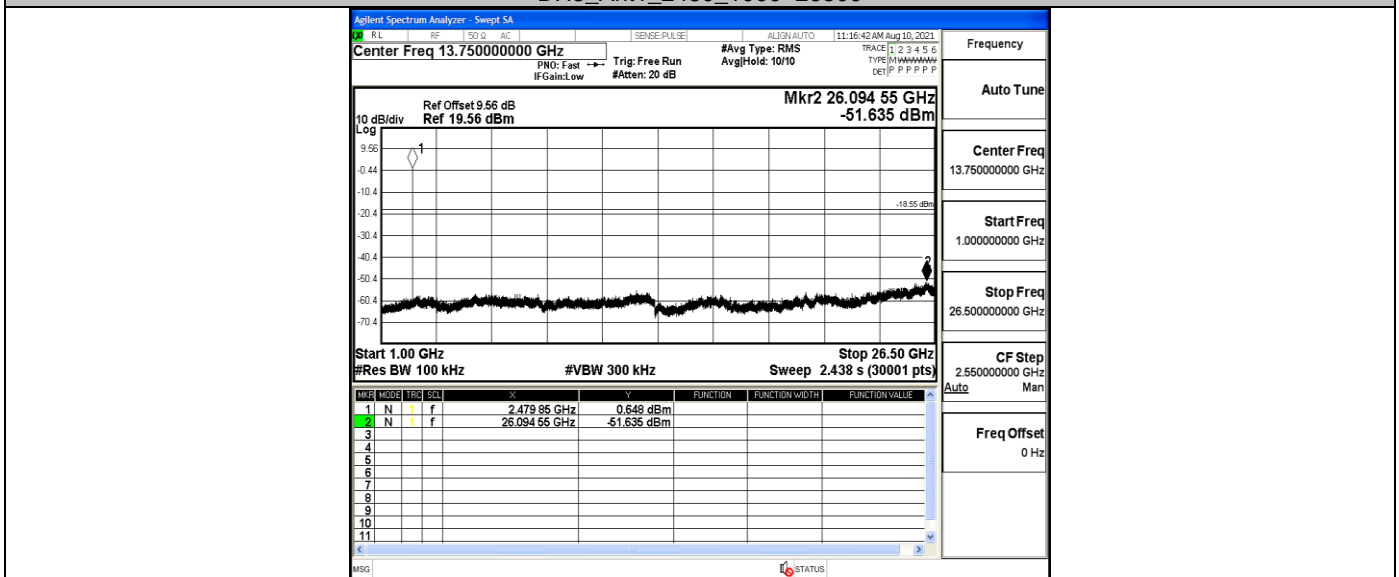
DH5\_Ant1\_2480\_0~Reference



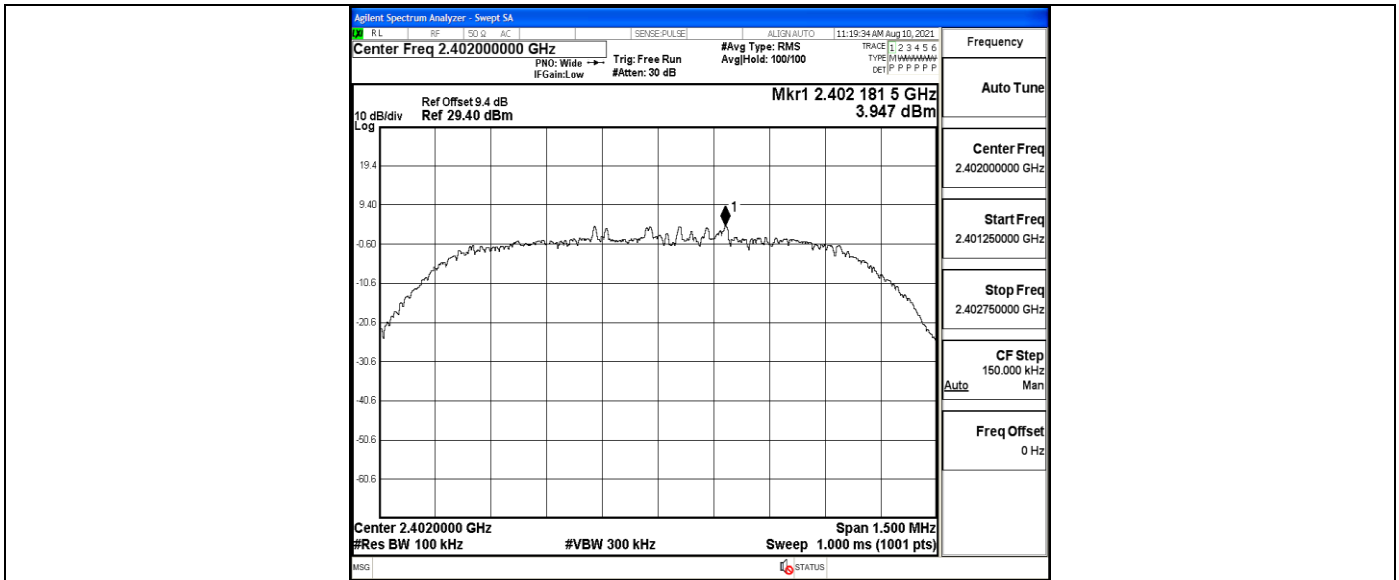
DH5\_Ant1\_2480\_30~1000



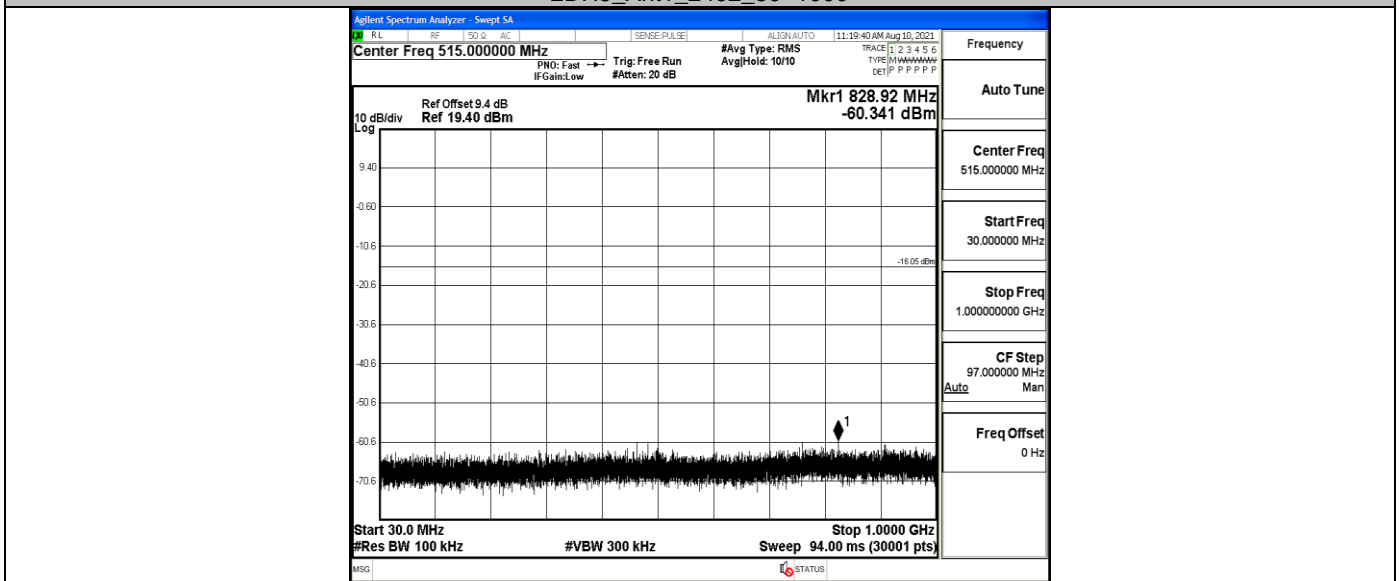
DH5\_Ant1\_2480\_1000~26500



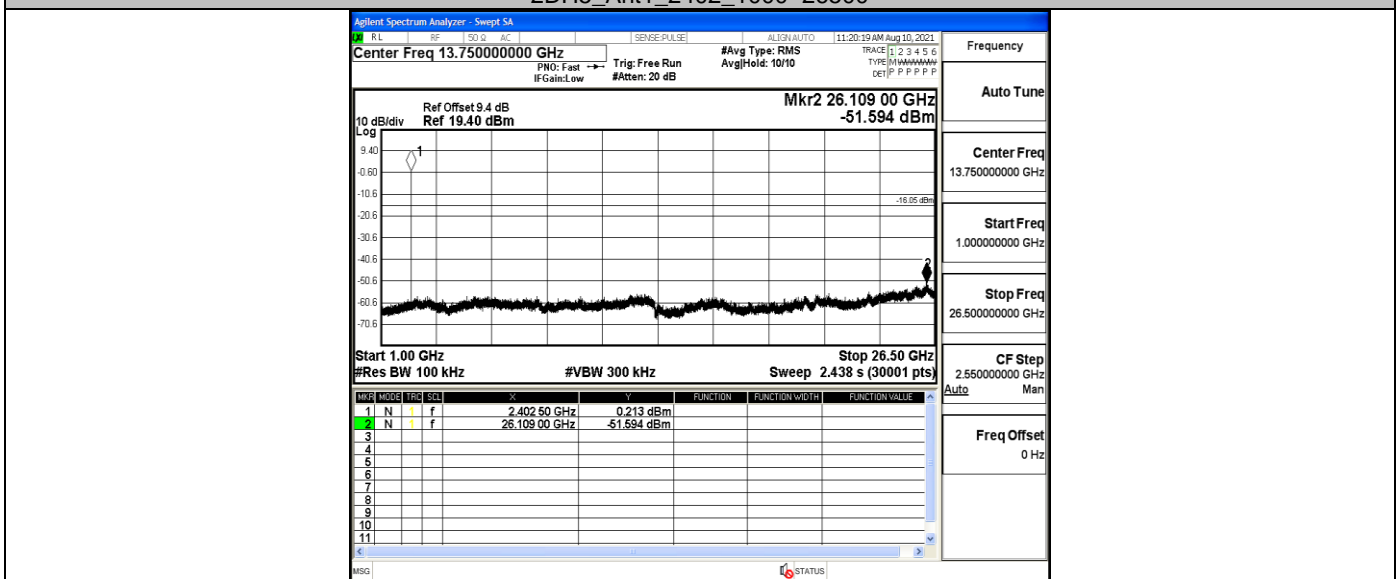
2DH5\_Ant1\_2402\_0~Reference



2DH5\_Ant1\_2402\_30~1000

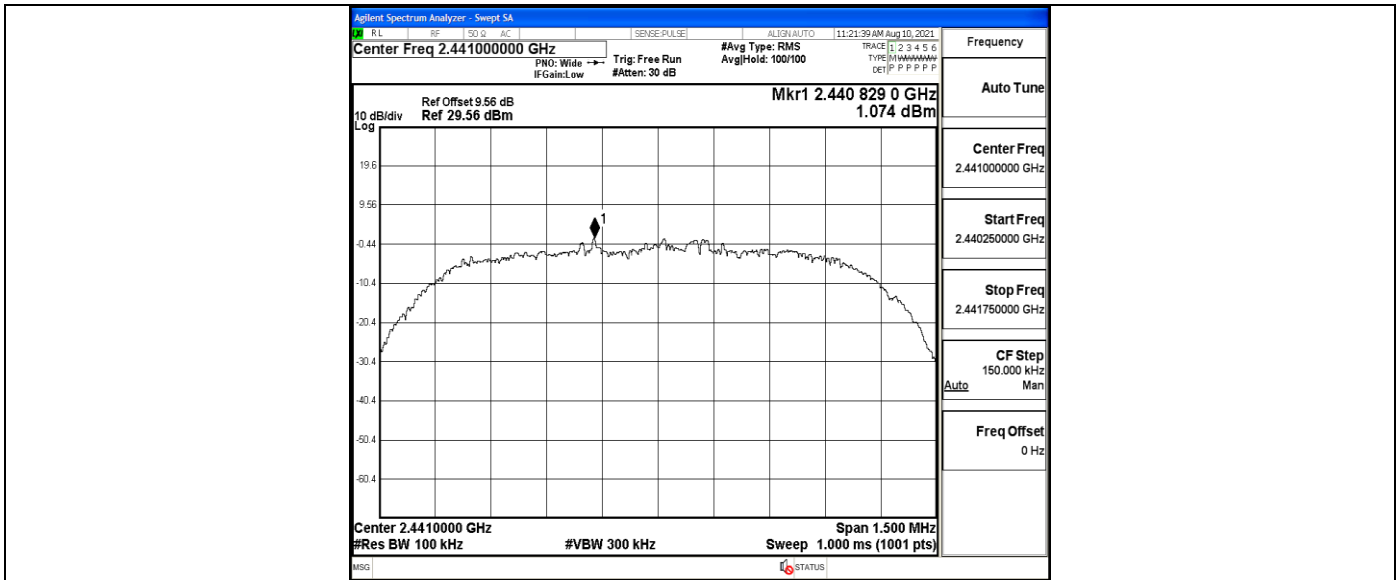


2DH5\_Ant1\_2402\_1000~26500

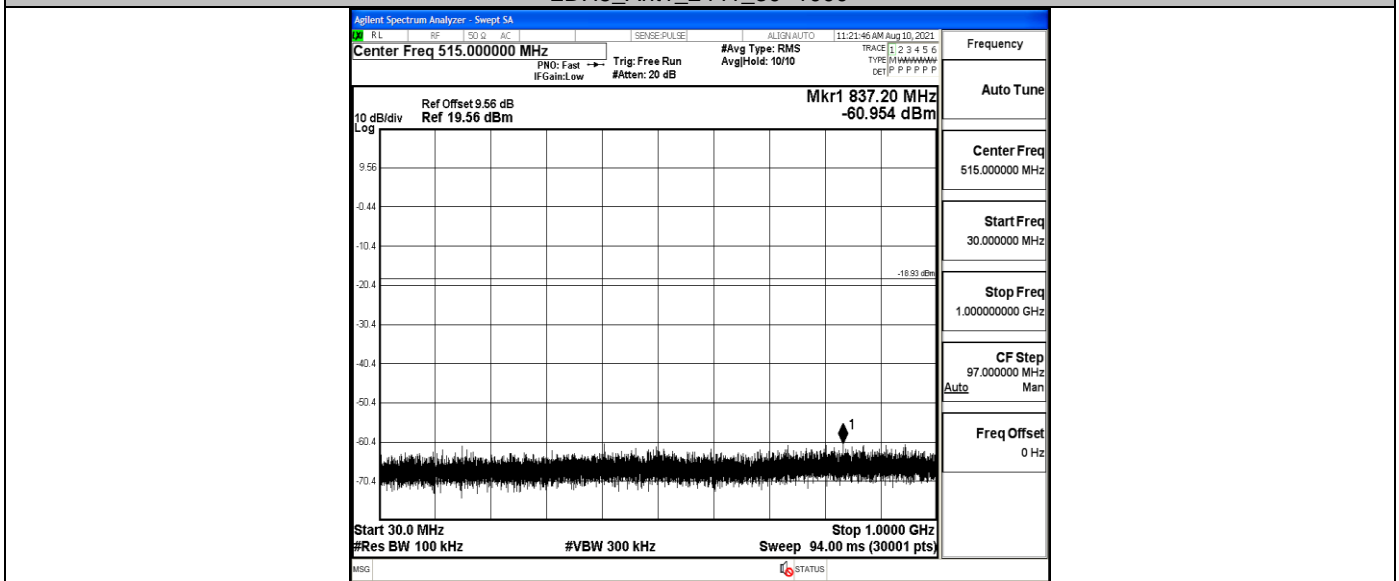


2DH5\_Ant1\_2441\_0~Reference

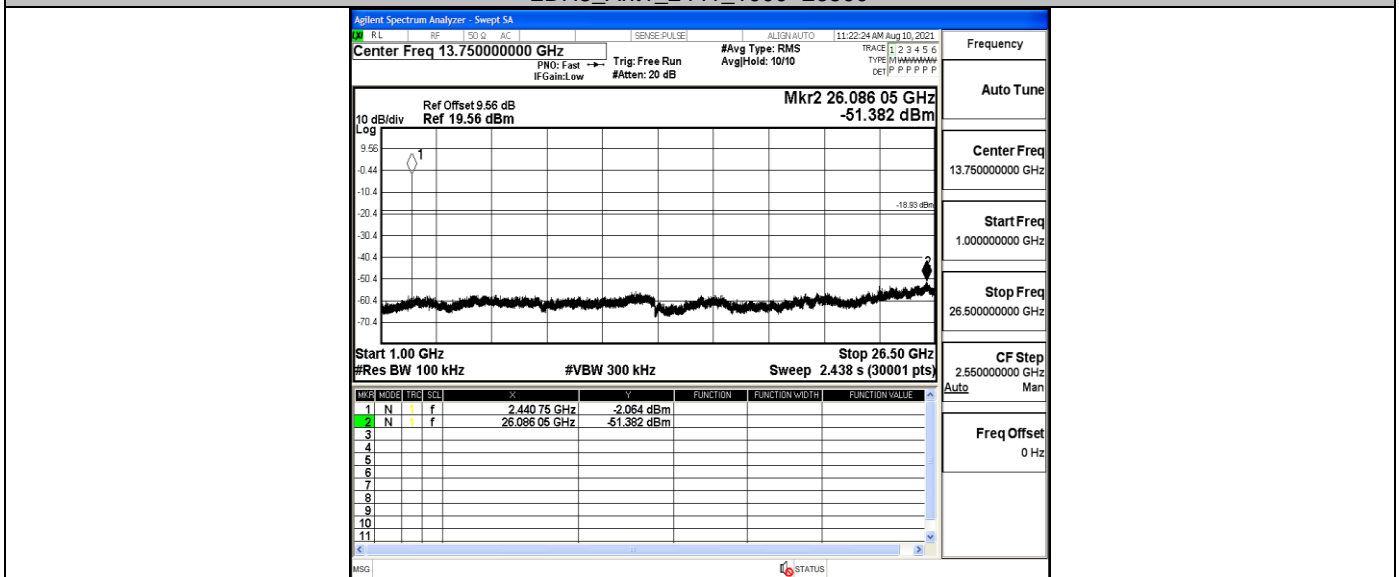




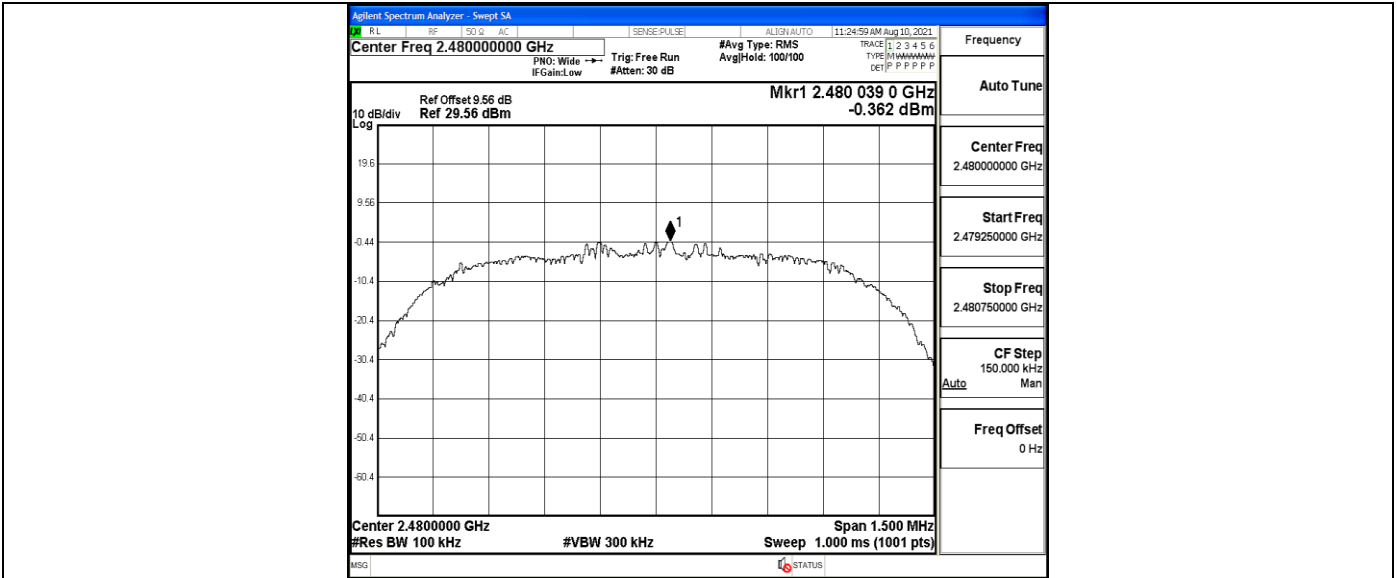
2DH5\_Ant1\_2441\_30~1000



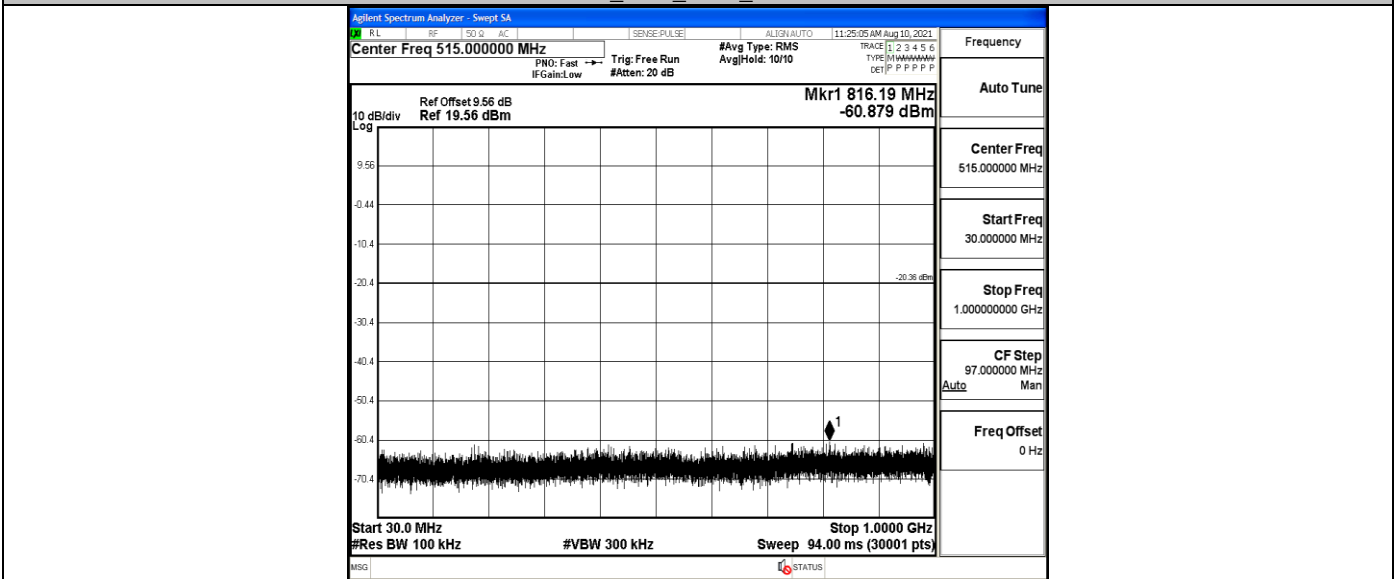
2DH5\_Ant1\_2441\_1000~26500



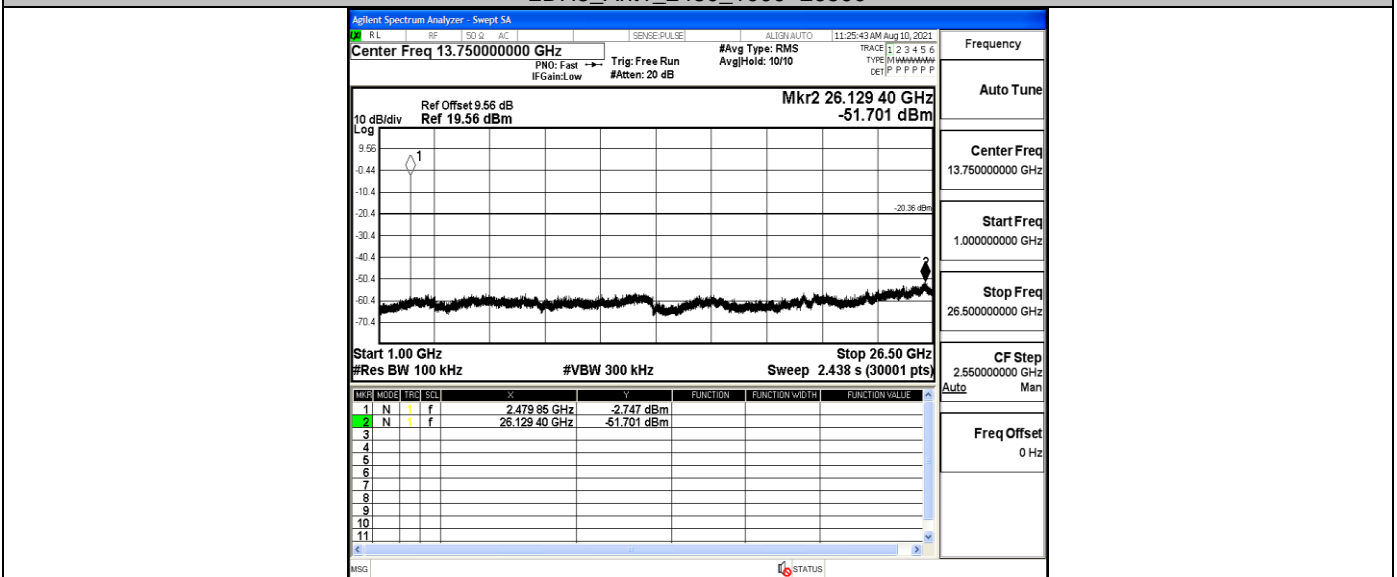
2DH5\_Ant1\_2480\_0~Reference



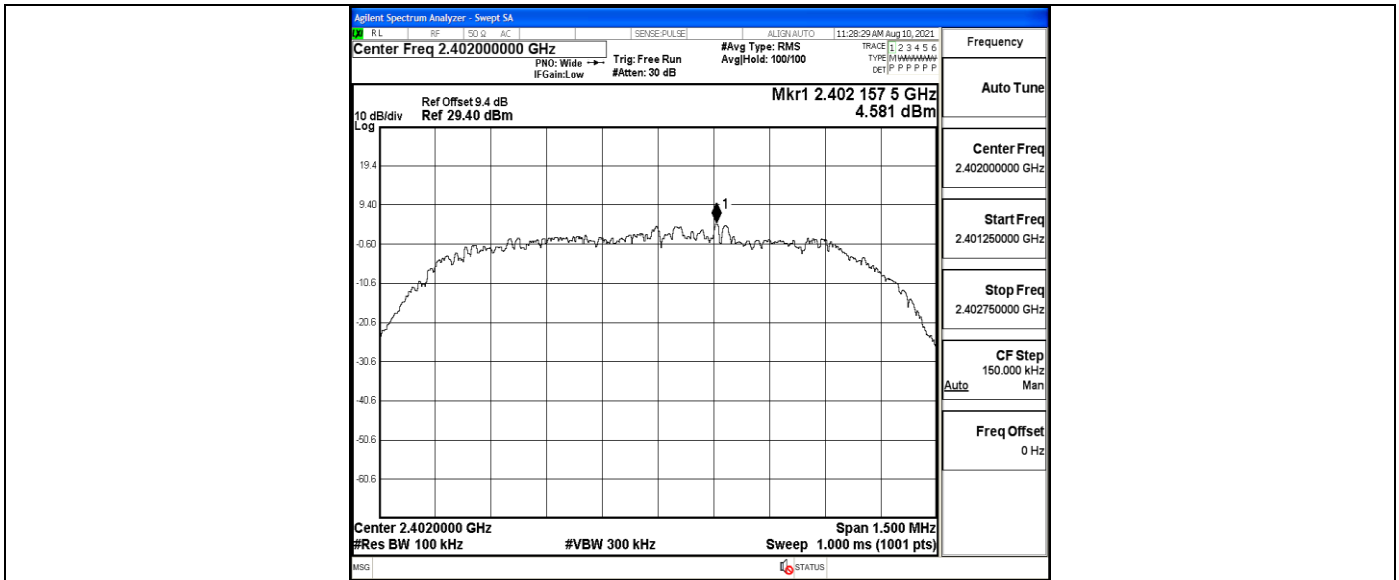
2DH5\_Ant1\_2480\_30~1000



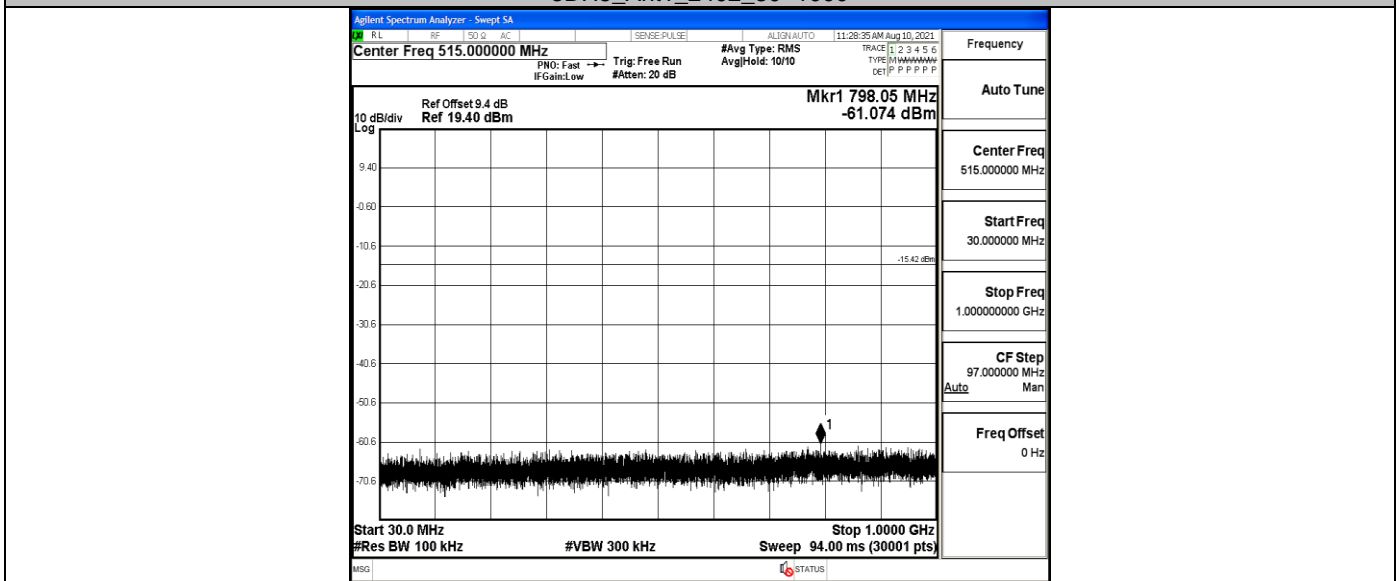
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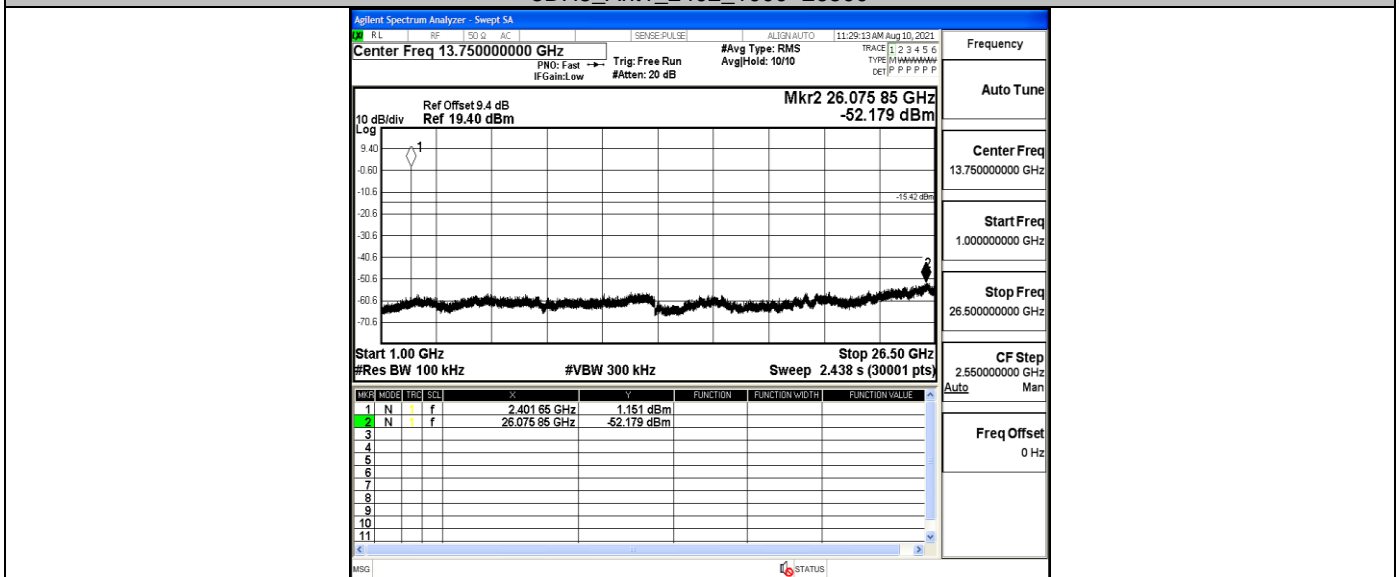
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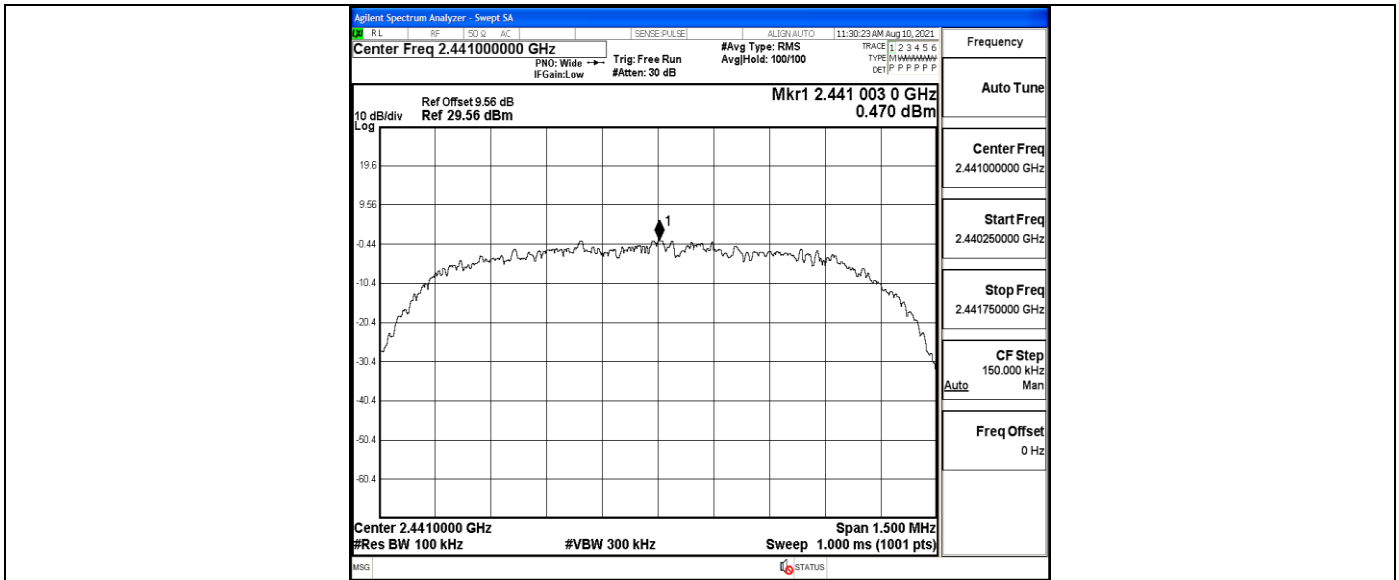
3DH5\_Ant1\_2402\_30~1000



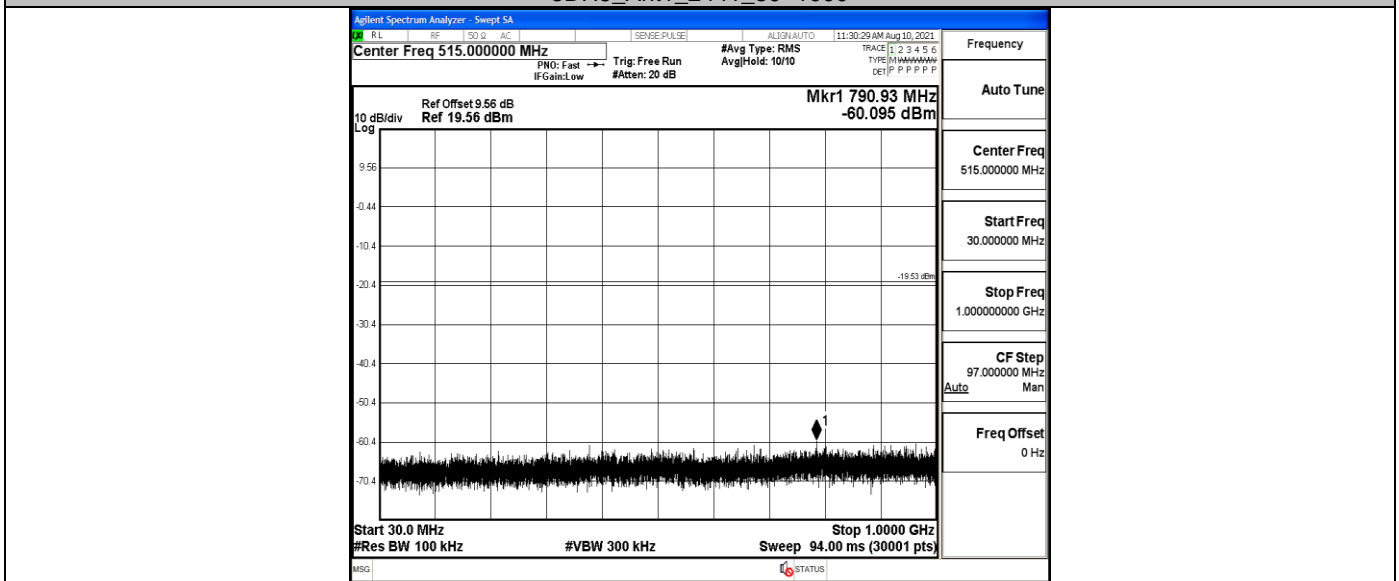
3DH5\_Ant1\_2402\_1000~26500



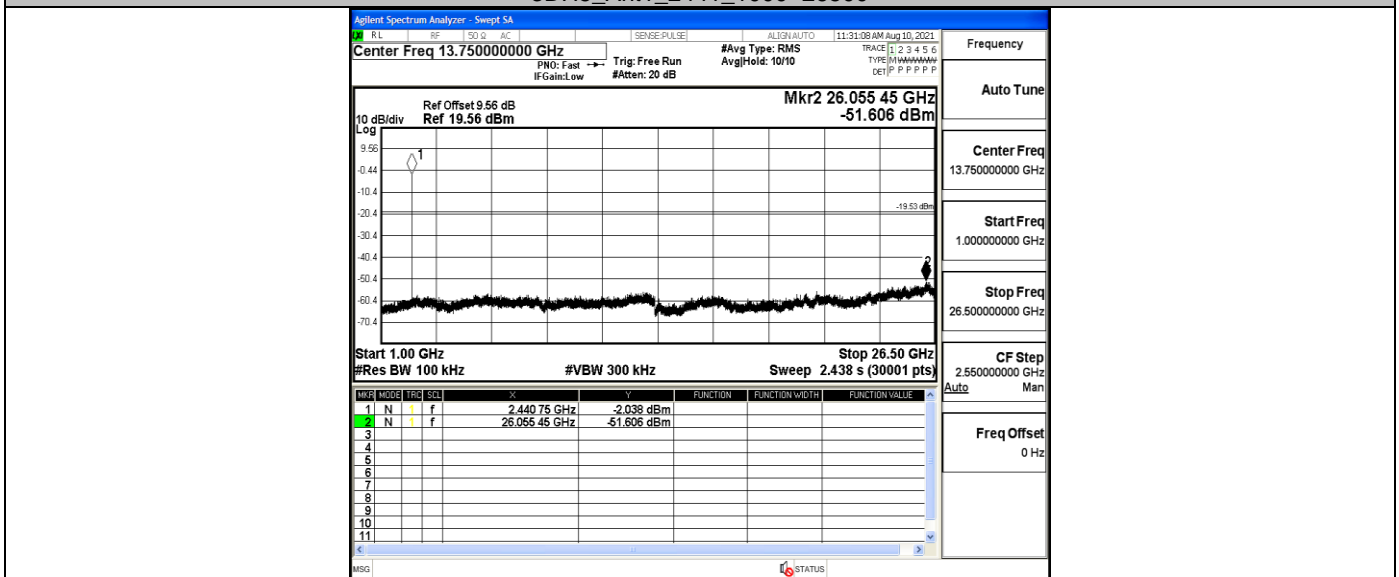
3DH5\_Ant1\_2441\_0~Reference



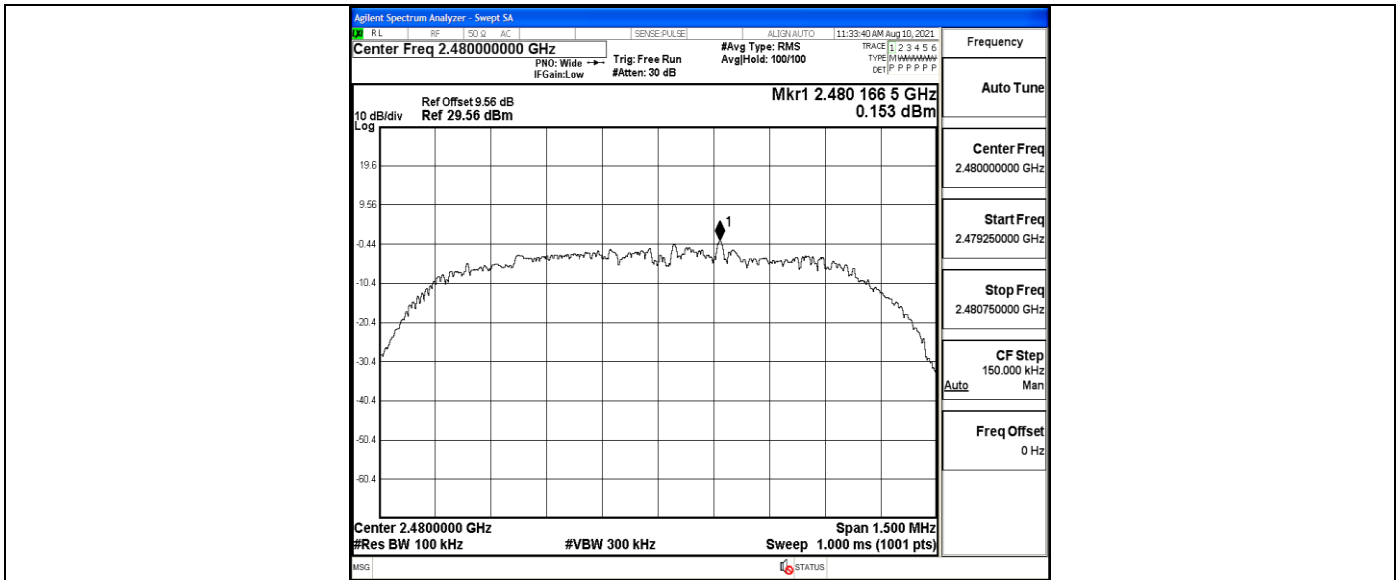
3DH5\_Ant1\_2441\_30~1000



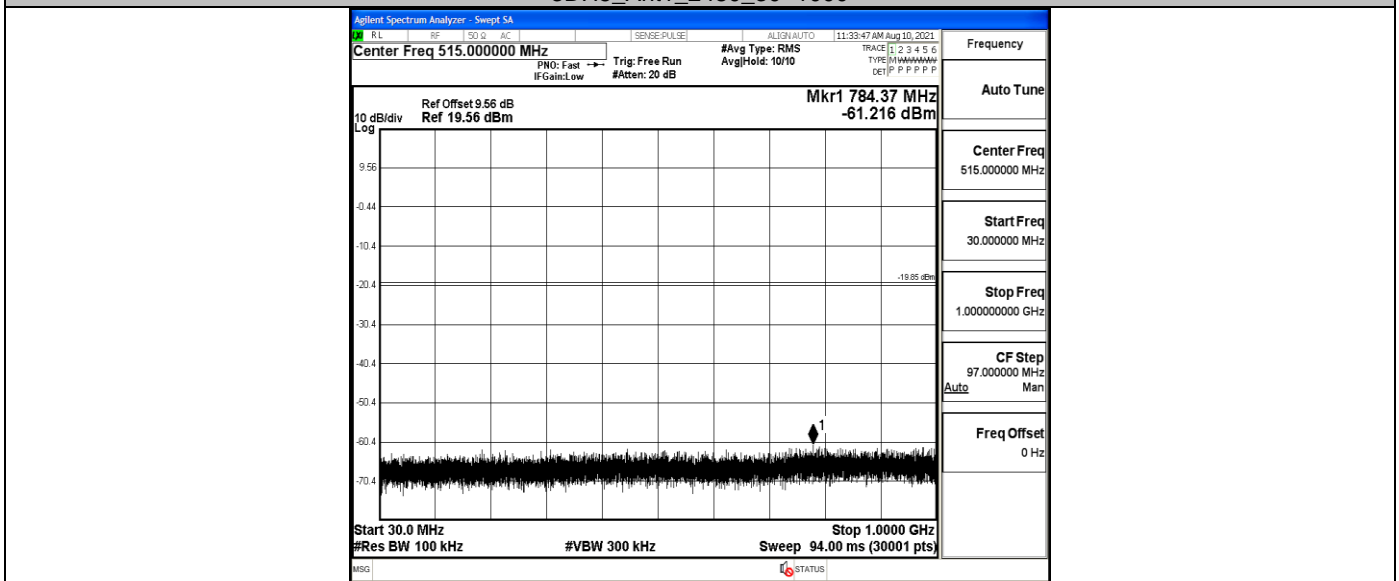
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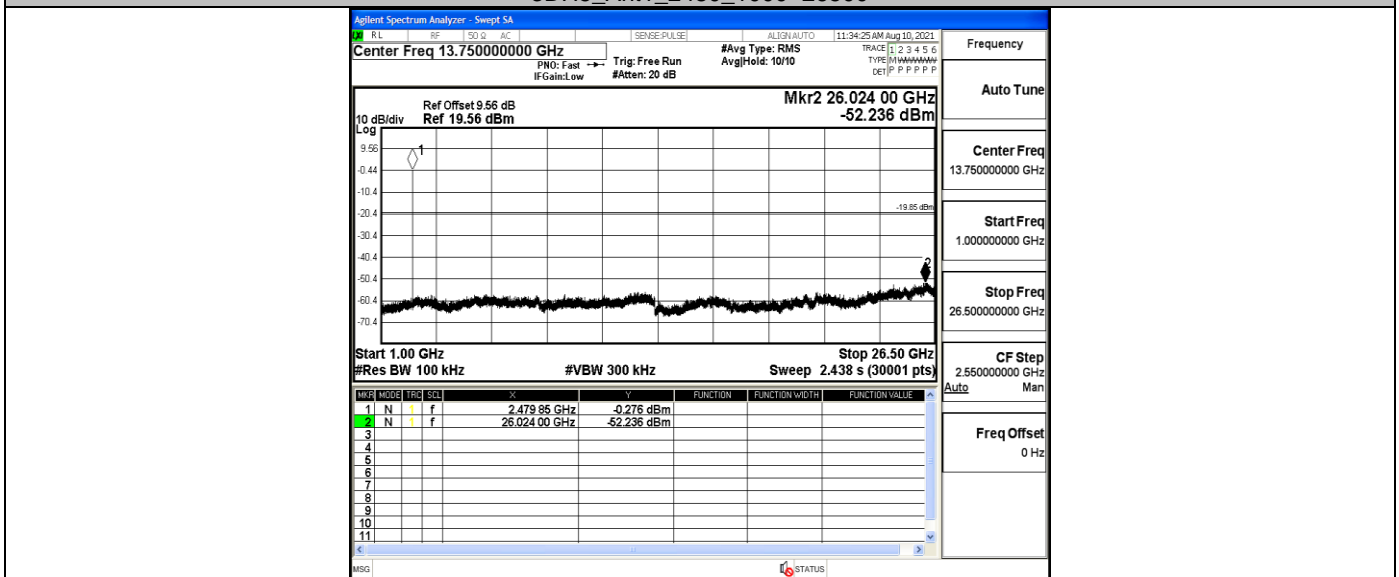
3DH5\_Ant1\_2480\_0~Reference



3DH5\_Ant1\_2480\_30~1000



3DH5\_Ant1\_2480\_1000~26500

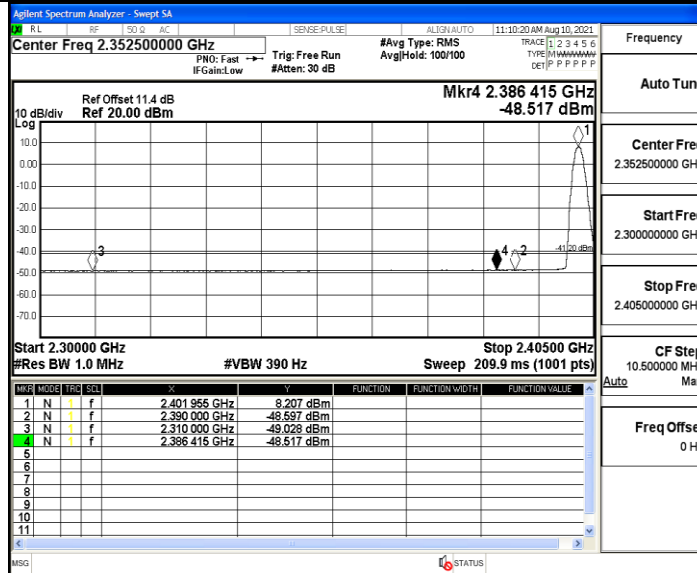


**A.8 Emissions in Restricted Bands**

TestMode	Antenna	ChName	Channel	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.03	≤-41.20	PASS
				AV	2386.415	-48.52	≤-41.20	PASS
				AV	2390.000	-48.6	≤-41.20	PASS
				Peak	2310.000	-42.33	≤-21.20	PASS
				Peak	2385.785	-39.05	≤-21.20	PASS
				Peak	2390.000	-42.77	≤-21.20	PASS
		High	2480	AV	2483.500	-47.84	≤-41.20	PASS
				AV	2497.840	-47.82	≤-41.20	PASS
				AV	2500.000	-47.98	≤-41.20	PASS
				Peak	2483.500	-41.7	≤-21.20	PASS
				Peak	2496.320	-37.77	≤-21.20	PASS
				Peak	2500.000	-40.17	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.97	≤-41.20	PASS
				AV	2389.040	-48.55	≤-41.20	PASS
				AV	2390.000	-48.68	≤-41.20	PASS
				Peak	2310.000	-43.55	≤-21.20	PASS
				Peak	2355.860	-38.41	≤-21.20	PASS
				Peak	2390.000	-41.67	≤-21.20	PASS
		High	2480	AV	2483.500	-47.58	≤-41.20	PASS
				AV	2483.520	-47.58	≤-41.20	PASS
				AV	2500.000	-47.98	≤-41.20	PASS
				Peak	2483.500	-40.3	≤-21.20	PASS
				Peak	2495.280	-38.04	≤-21.20	PASS
				Peak	2500.000	-40.68	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.98	≤-41.20	PASS
				AV	2388.830	-48.57	≤-41.20	PASS
				AV	2390.000	-48.69	≤-41.20	PASS
				Peak	2310.000	-40.99	≤-21.20	PASS
				Peak	2364.890	-38.63	≤-21.20	PASS
				Peak	2390.000	-40.63	≤-21.20	PASS
		High	2480	AV	2483.500	-47.41	≤-41.20	PASS
				AV	2483.520	-47.41	≤-41.20	PASS
				AV	2500.000	-48.04	≤-41.20	PASS
				Peak	2483.500	-39.86	≤-21.20	PASS
				Peak	2499.600	-38.47	≤-21.20	PASS
				Peak	2500.000	-41.05	≤-21.20	PASS

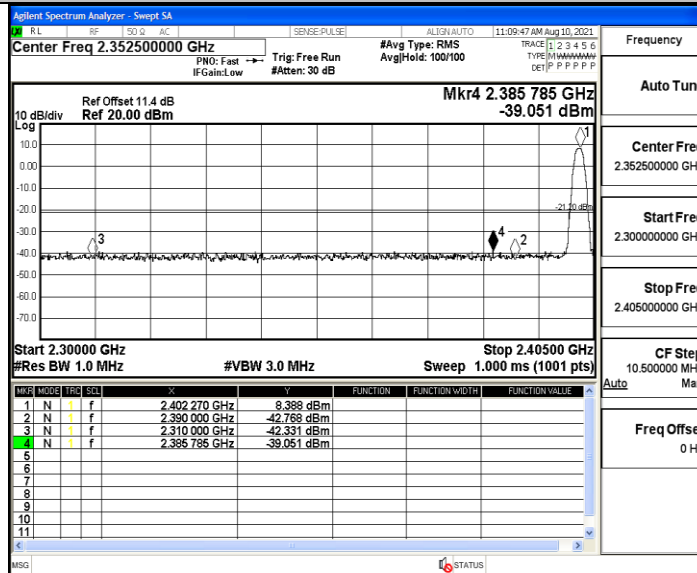
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

DH5\_Ant1\_Low\_2402\_AV



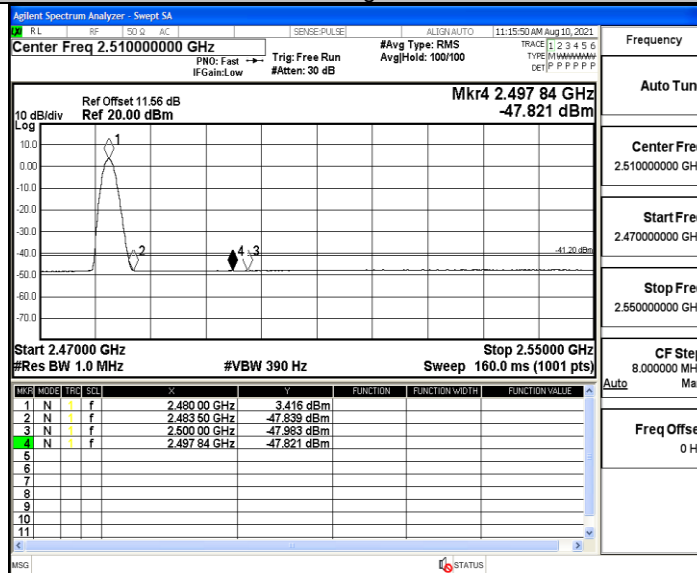
Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Auto	Man
Freq Offset	0 Hz

DH5\_Ant1\_Low\_2402\_Peak



Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Auto	Man
Freq Offset	0 Hz

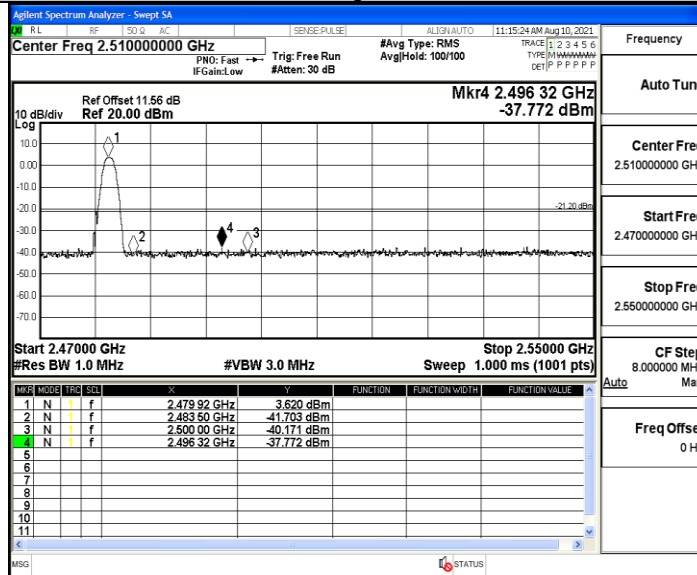
DH5\_Ant1\_High\_2480\_AV



Frequency	Auto Tune
Center Freq	2.510000000 GHz
Start Freq	2.470000000 GHz
Stop Freq	2.550000000 GHz
CF Step	8.000000 MHz
Auto	Man
Freq Offset	0 Hz

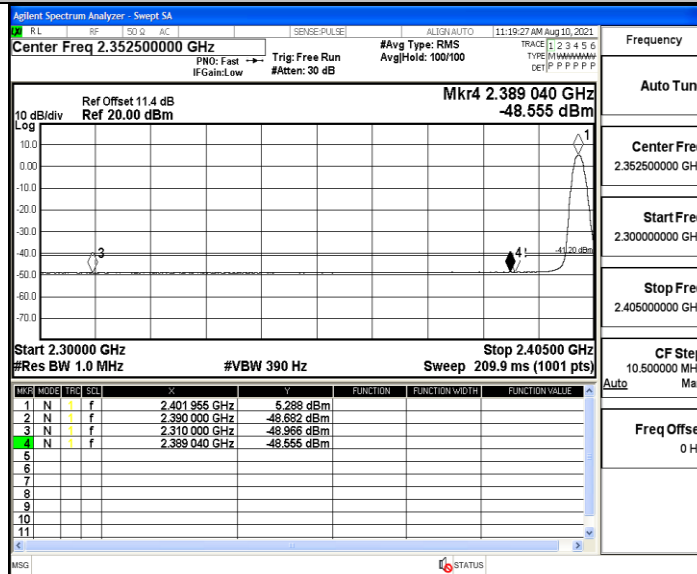


DH5\_Ant1\_High\_2480\_Peak



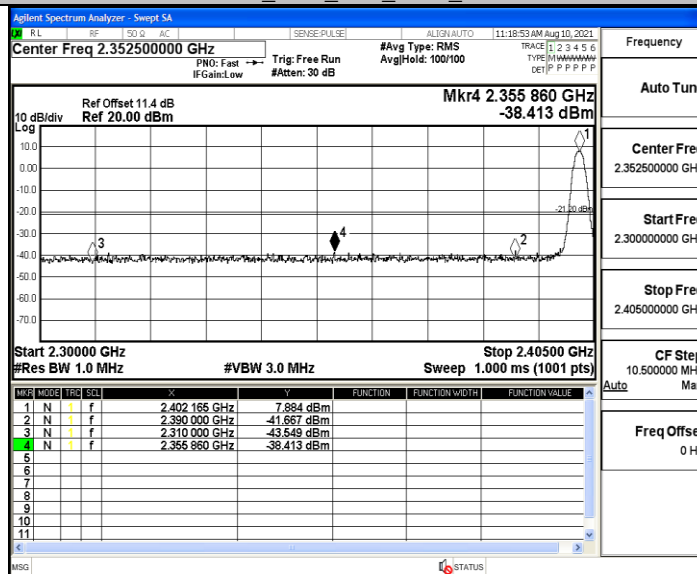
Frequency	Auto Tune
Center Freq	2.510000000 GHz
Start Freq	2.470000000 GHz
Stop Freq	2.550000000 GHz
CF Step	8.000000 MHz
Freq Offset	0 Hz

2DH5\_Ant1\_Low\_2402\_AV



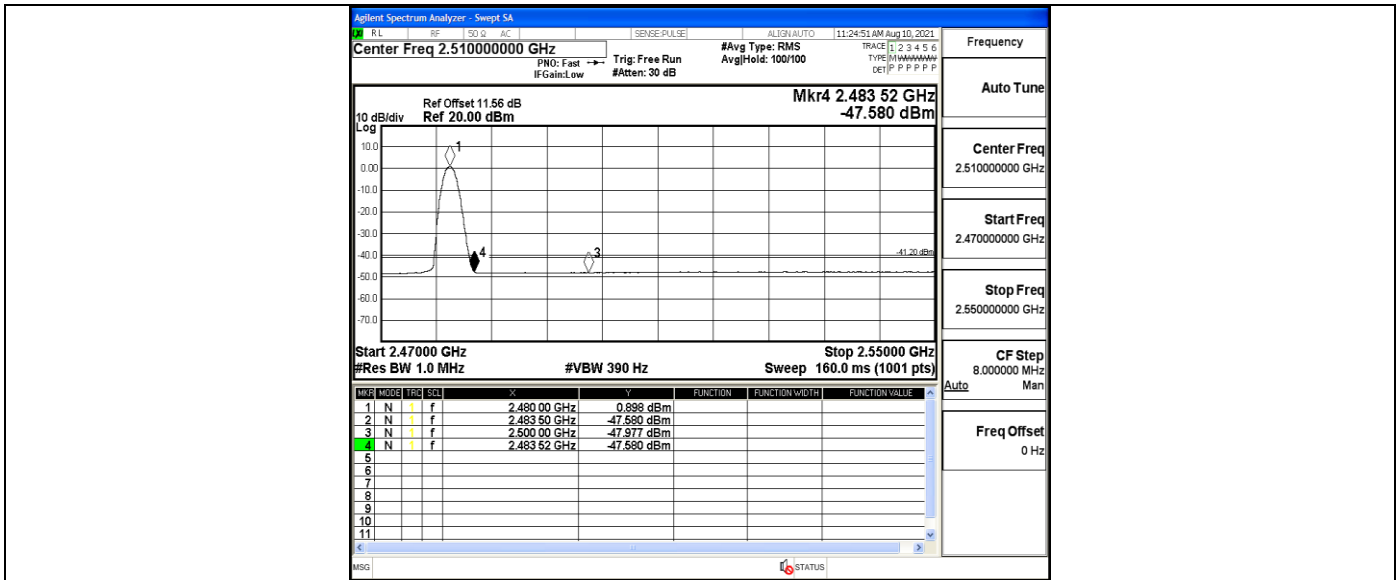
Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

2DH5\_Ant1\_Low\_2402\_Peak

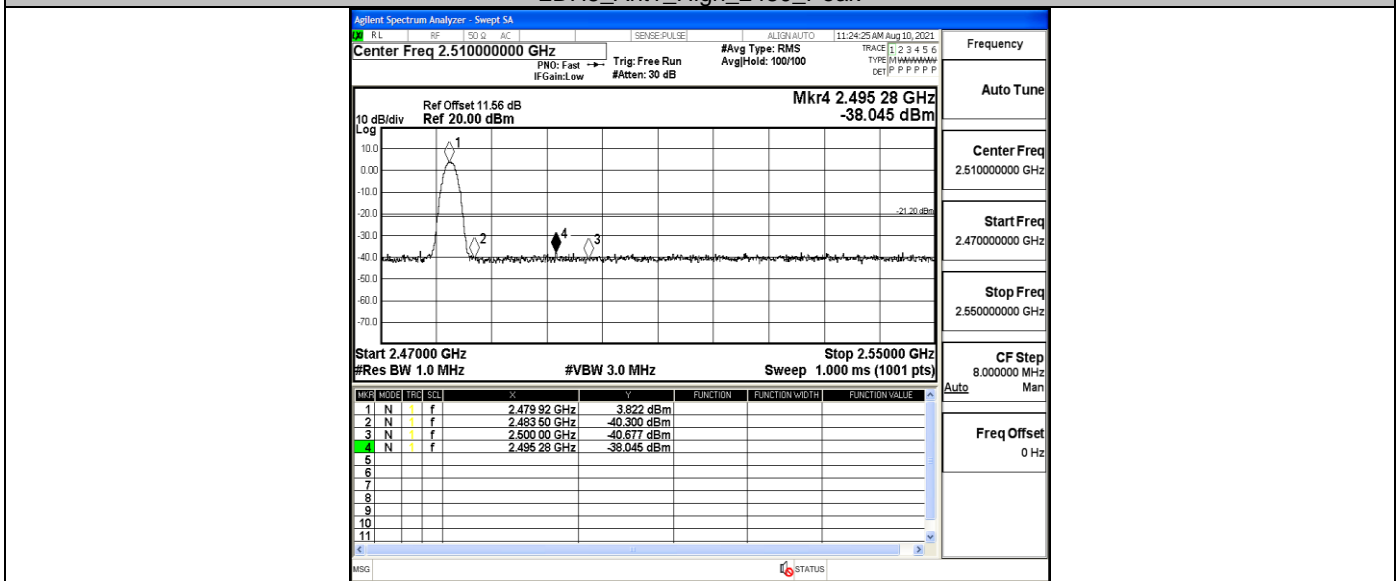


Frequency	Auto Tune
Center Freq	2.352500000 GHz
Start Freq	2.300000000 GHz
Stop Freq	2.405000000 GHz
CF Step	10.500000 MHz
Freq Offset	0 Hz

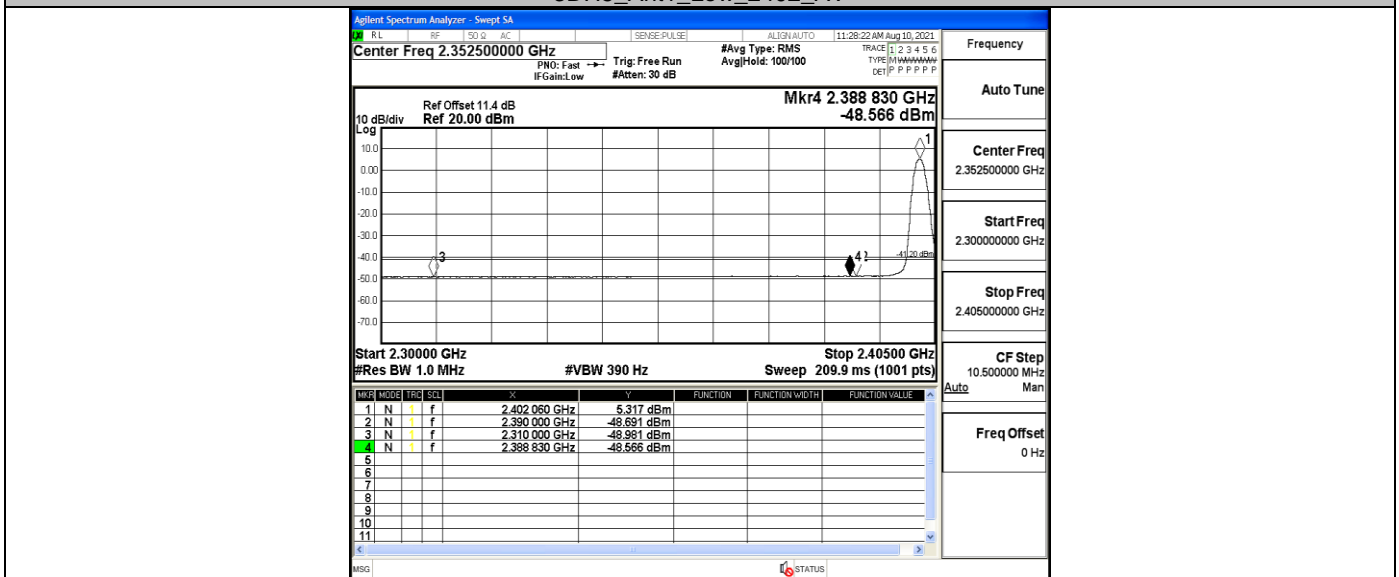
2DH5\_Ant1\_High\_2480\_AV



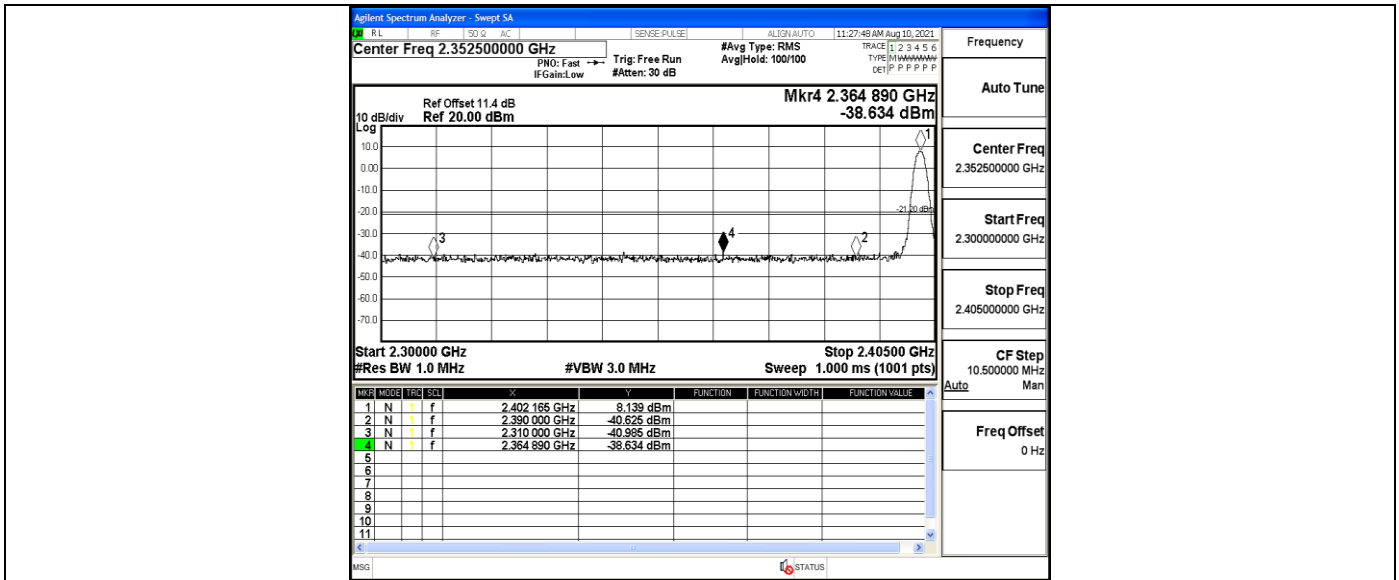
2DH5\_Ant1\_High\_2480\_Peak



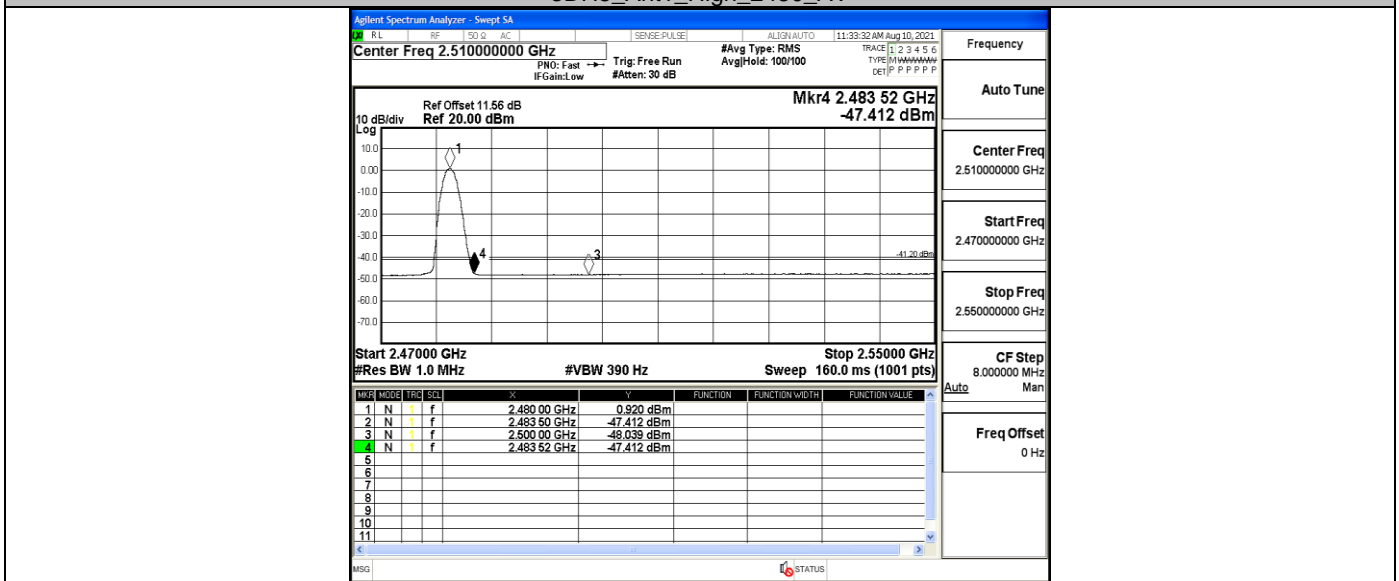
3DH5\_Ant1\_Low\_2402\_AV



3DH5\_Ant1\_Low\_2402\_Peak



3DH5\_Ant1\_High\_2480\_AV



3DH5\_Ant1\_High\_2480\_Peak

