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

Product Name: Active noise cancelling Bluetooth headphones

Trade Mark: PAWNIX

Test Model: PAWNIX.001

FCC ID: 2AWO4-PAWNIX001

Environmental Conditions

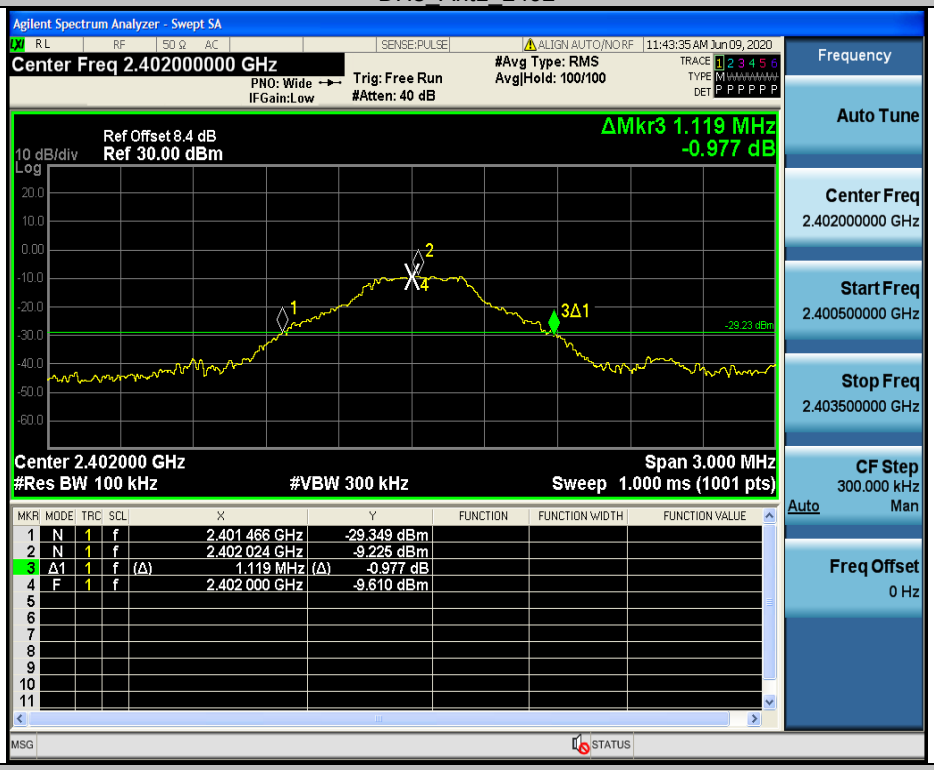
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

A.1 20 dB Bandwidth

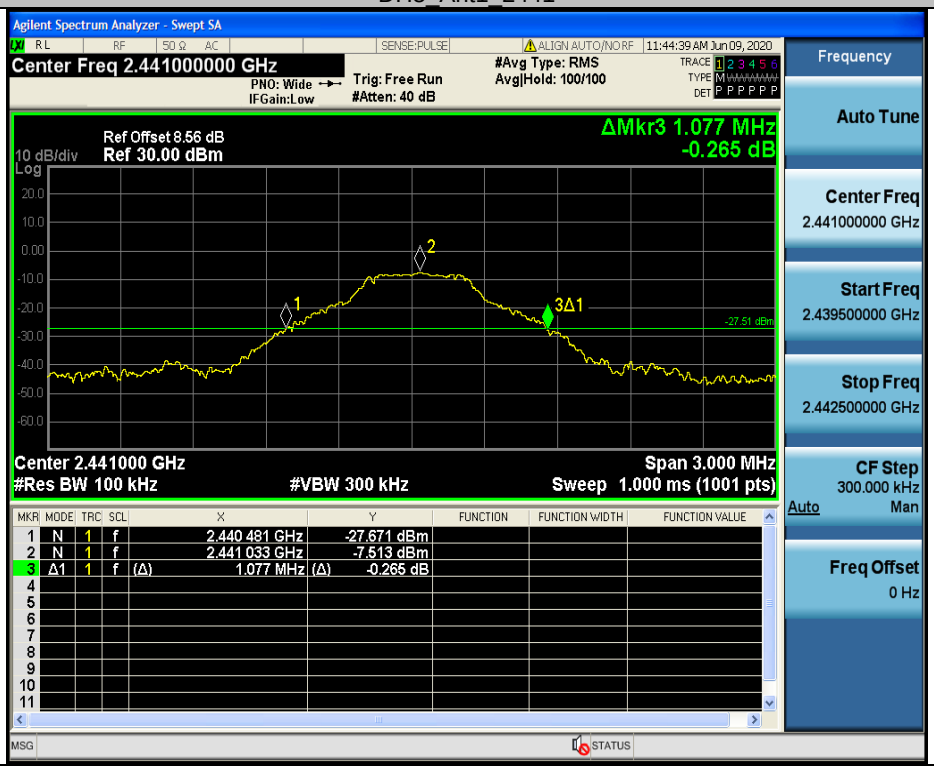
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.119	2401.466	2402.585	---	PASS
		2441	1.077	2440.481	2441.558	---	PASS
		2480	1.086	2479.496	2480.582	---	PASS
2DH5	Ant1	2402	1.413	2401.313	2402.726	---	PASS
		2441	1.407	2440.316	2441.723	---	PASS
		2480	1.362	2479.343	2480.705	---	PASS
3DH5	Ant1	2402	1.371	2401.343	2402.714	---	PASS
		2441	1.356	2440.340	2441.696	---	PASS
		2480	1.374	2479.328	2480.702	---	PASS

Test Graph

DH5_Ant1_2402

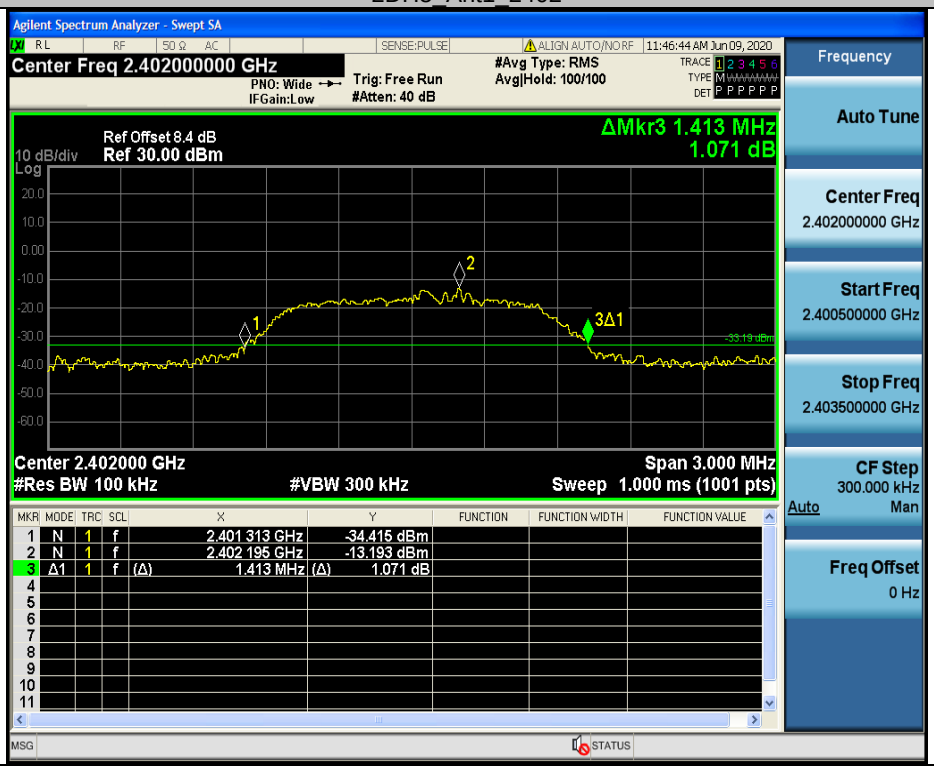


DH5_Ant1_2441

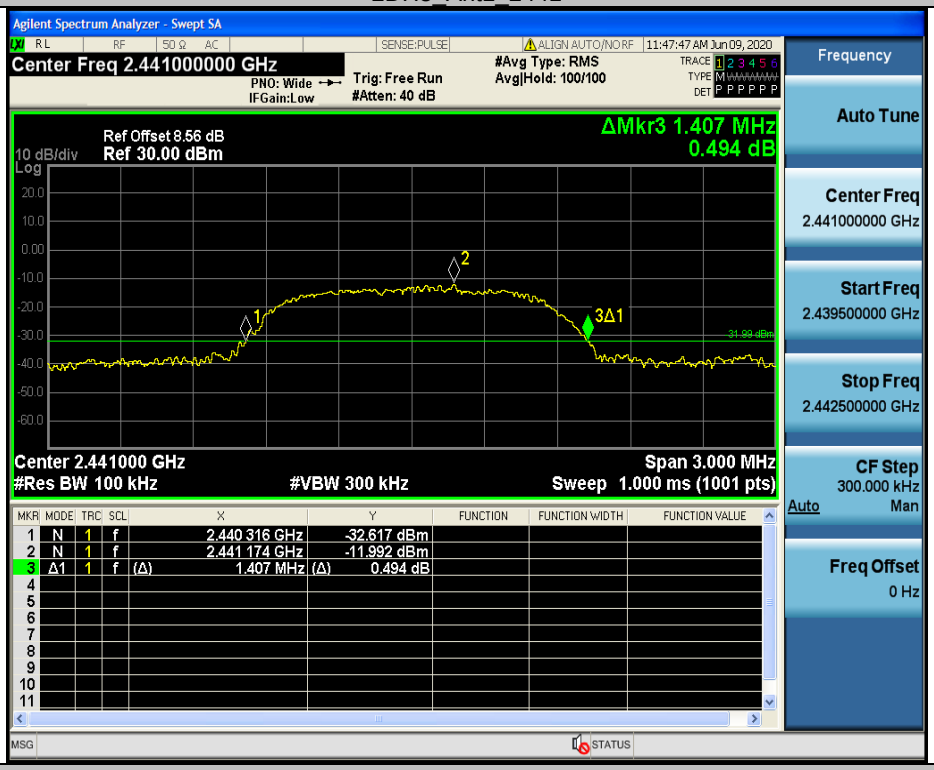


DH5_Ant1_2480

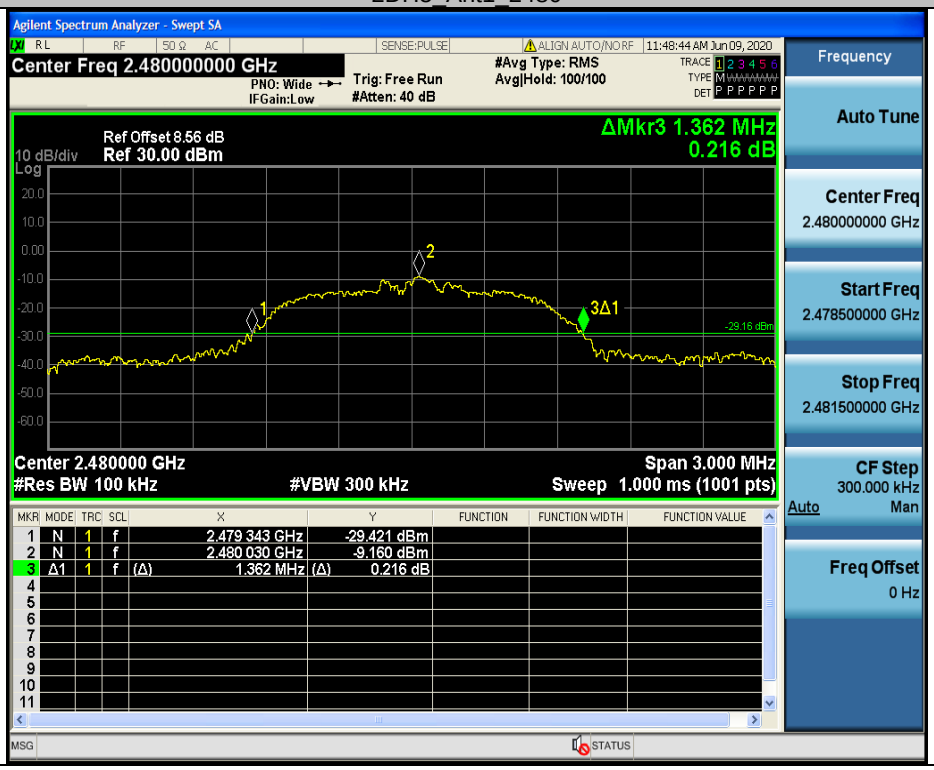
2DH5_Ant1_2402



2DH5_Ant1_2441

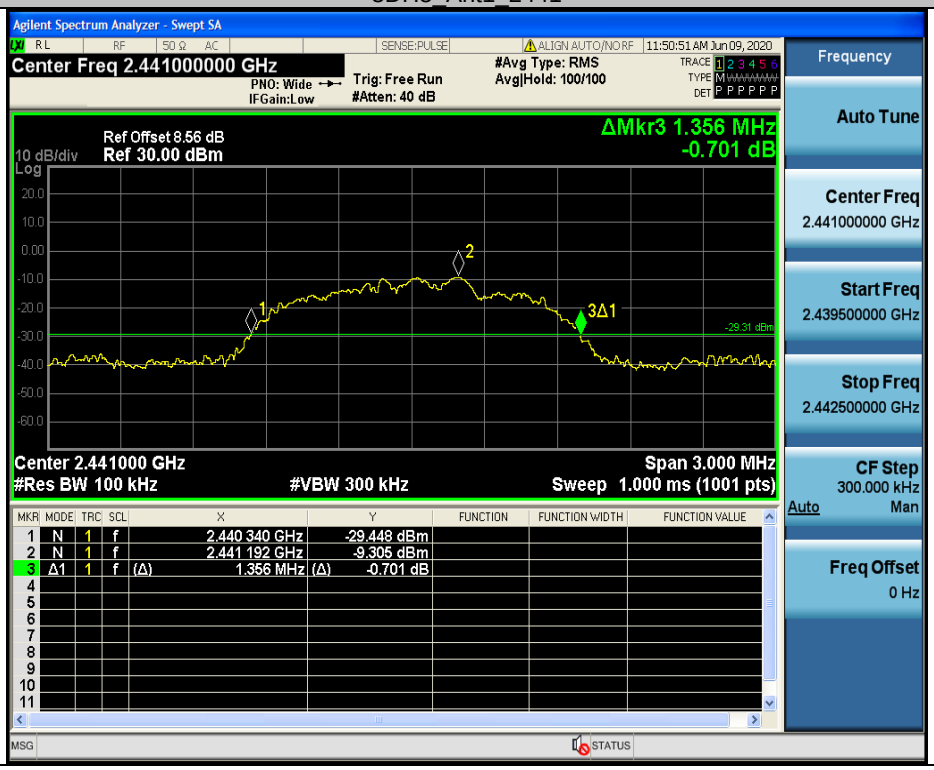


2DH5_Ant1_2480

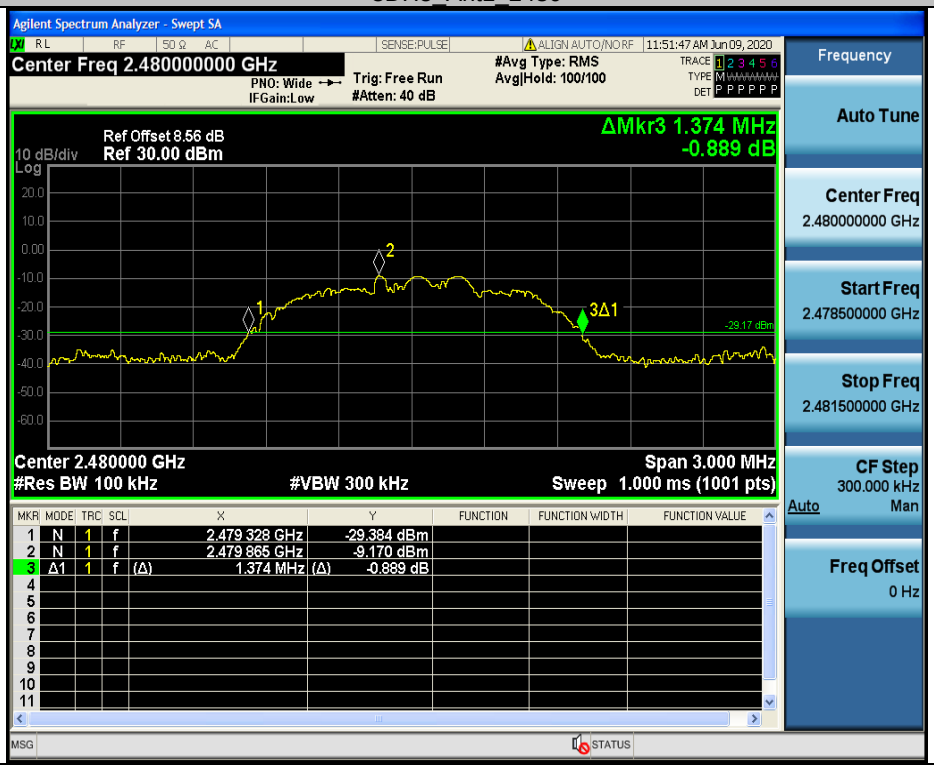


3DH5_Ant1_2402

3DH5_Ant1_2441



3DH5_Ant1_2480

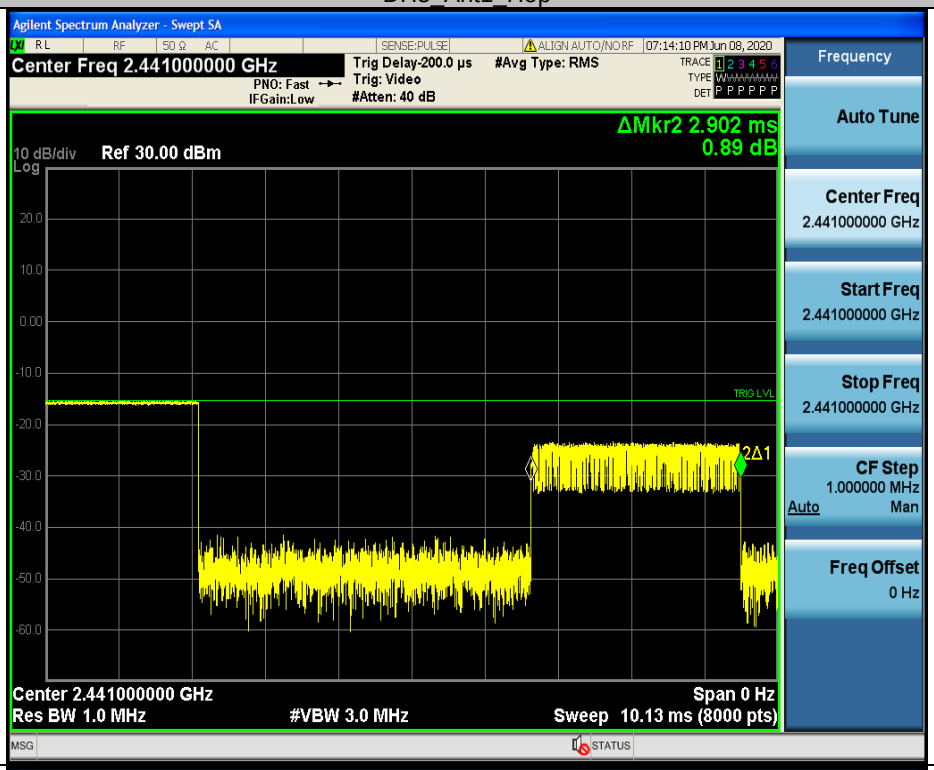


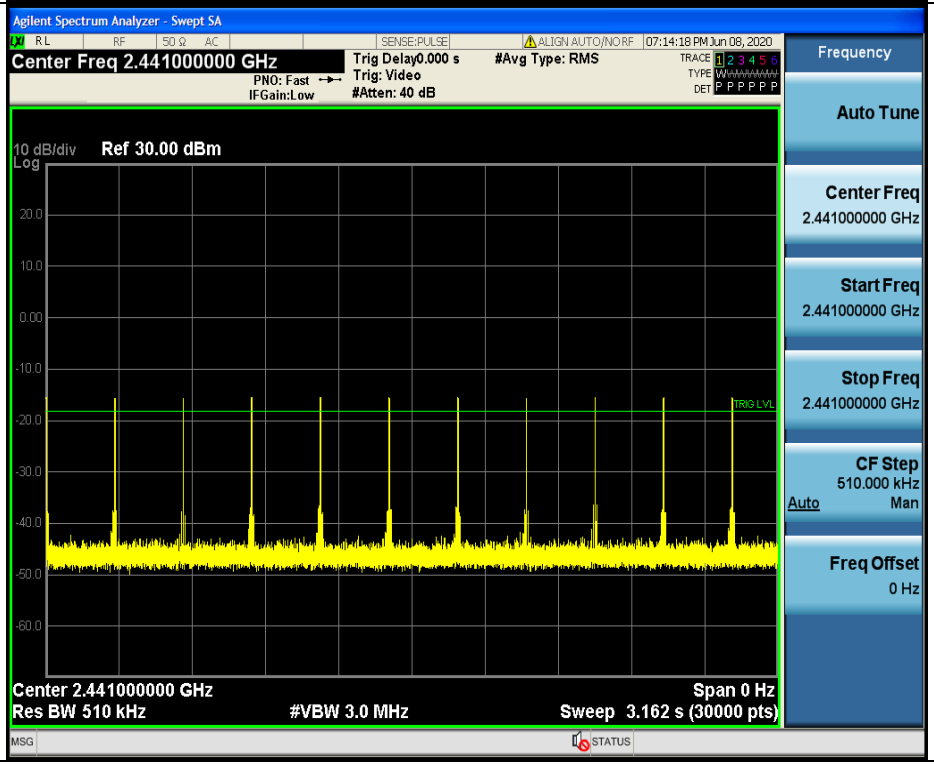
A.2 Dwell Time

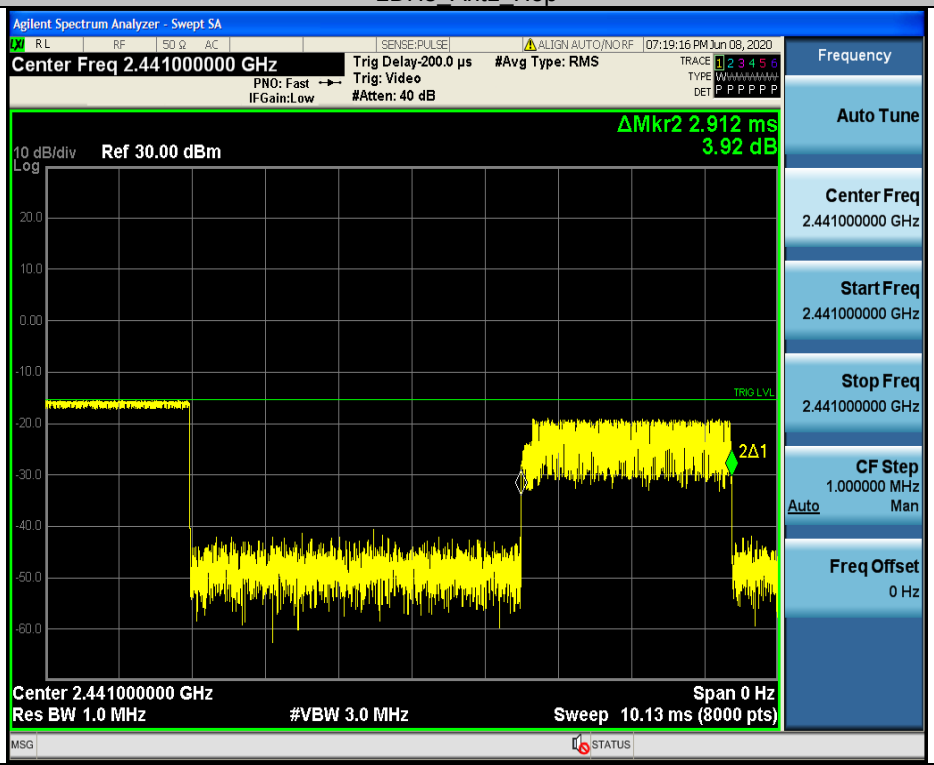
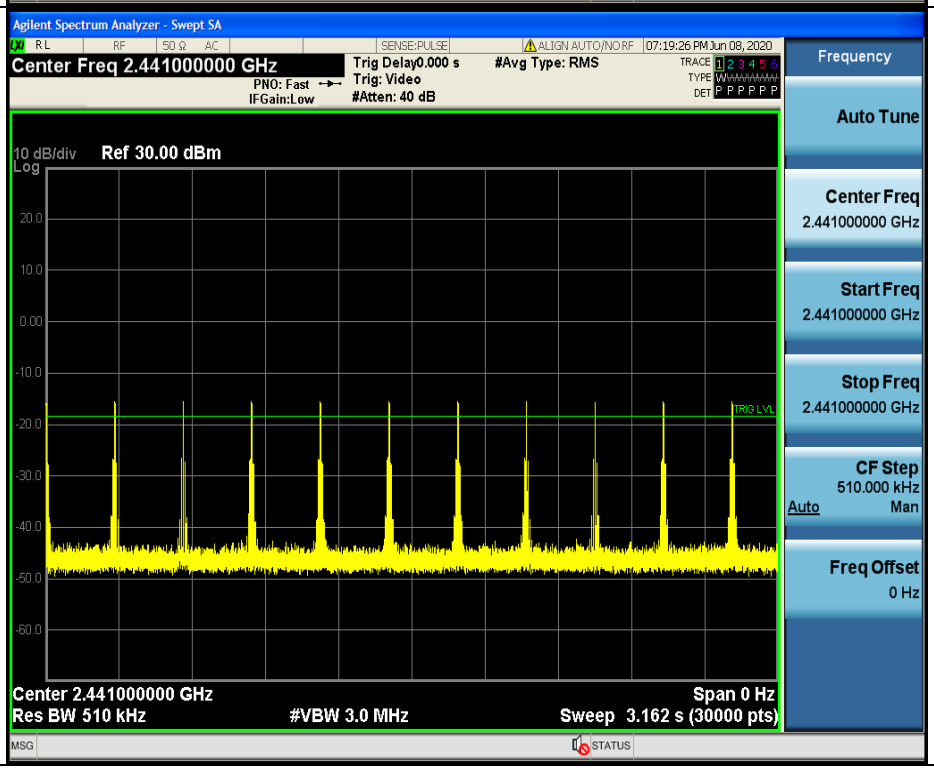
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.902	110	0.319	<=0.4	PASS
2DH5	Ant1	Hop	2.912	110	0.32	<=0.4	PASS
3DH5	Ant1	Hop	2.912	110	0.32	<=0.4	PASS

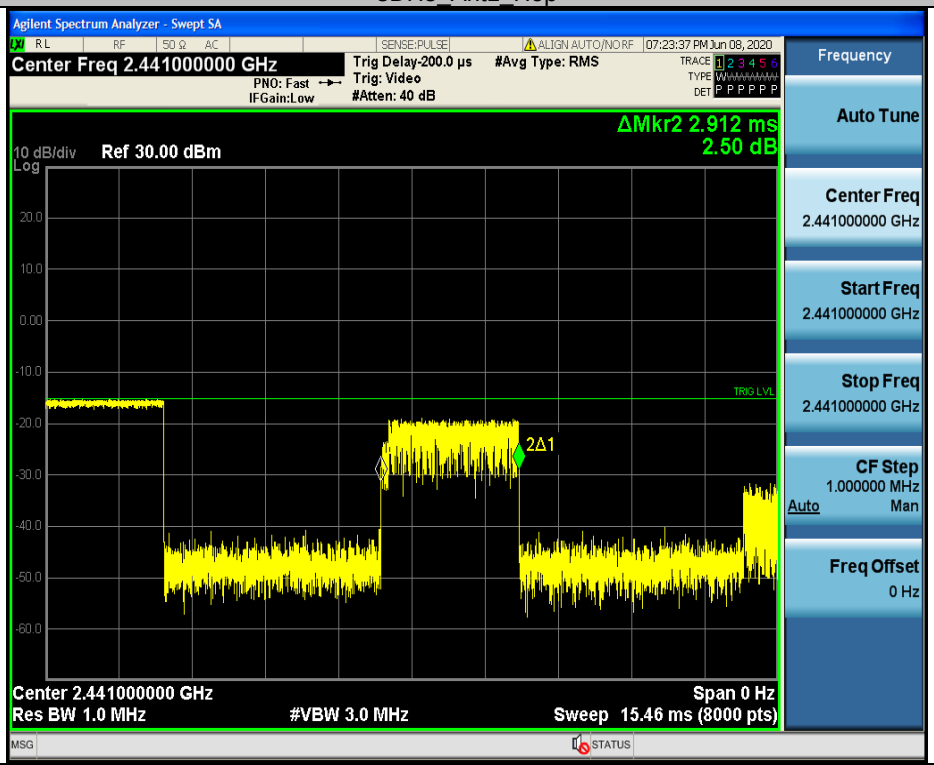
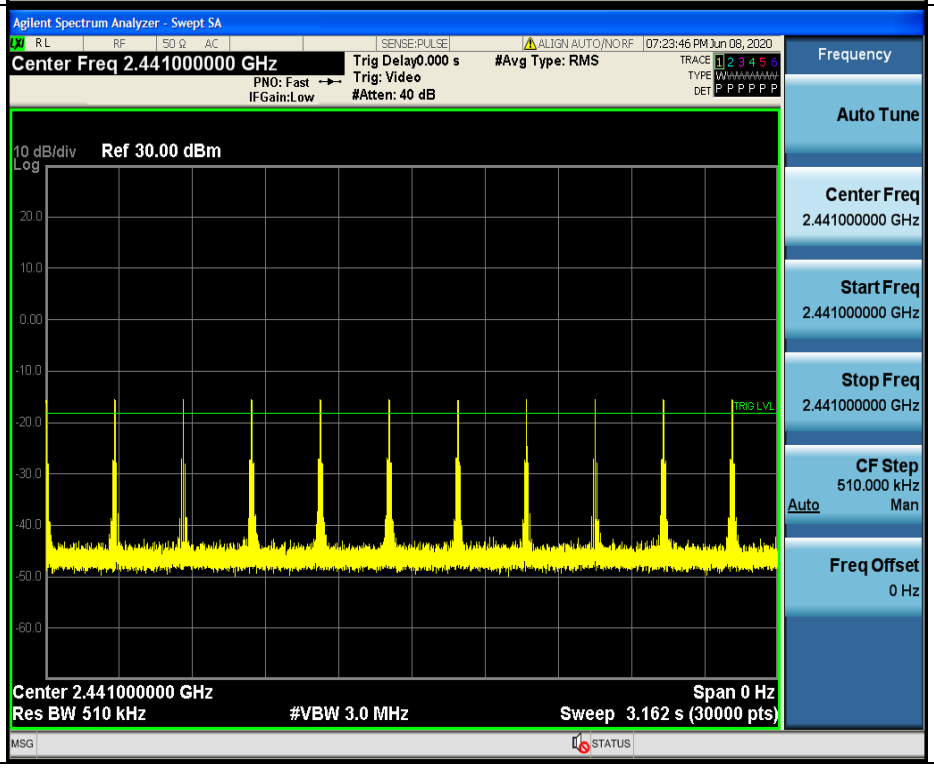
Test Graph

DH5_Ant1_Hop





2DH5_Ant1_Hop



3DH5_Ant1_Hop



A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.980	>=0.746	PASS
2DH5	Ant1	Hop	0.998	>=0.942	PASS
3DH5	Ant1	Hop	1.004	>=0.916	PASS

Test Graph

DH5_Ant1_Hop

2DH5_Ant1_Hop

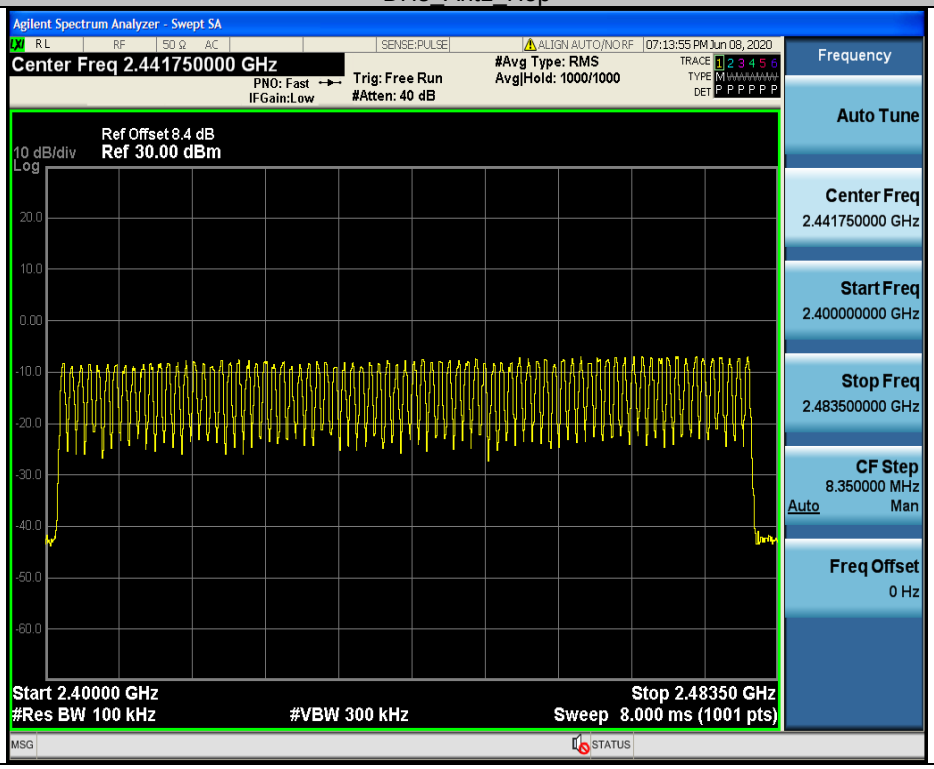
3DH5_Ant1_Hop


A.4 Hopping Channel Number

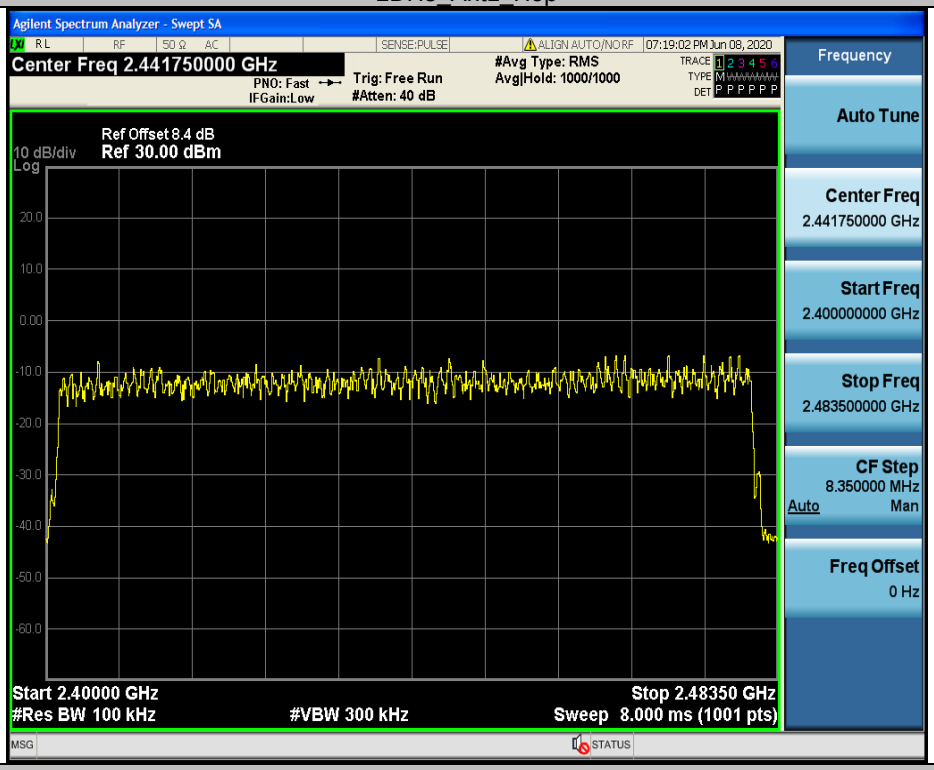
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS
3DH5	Ant1	Hop	79	>=15	PASS

Test Graph

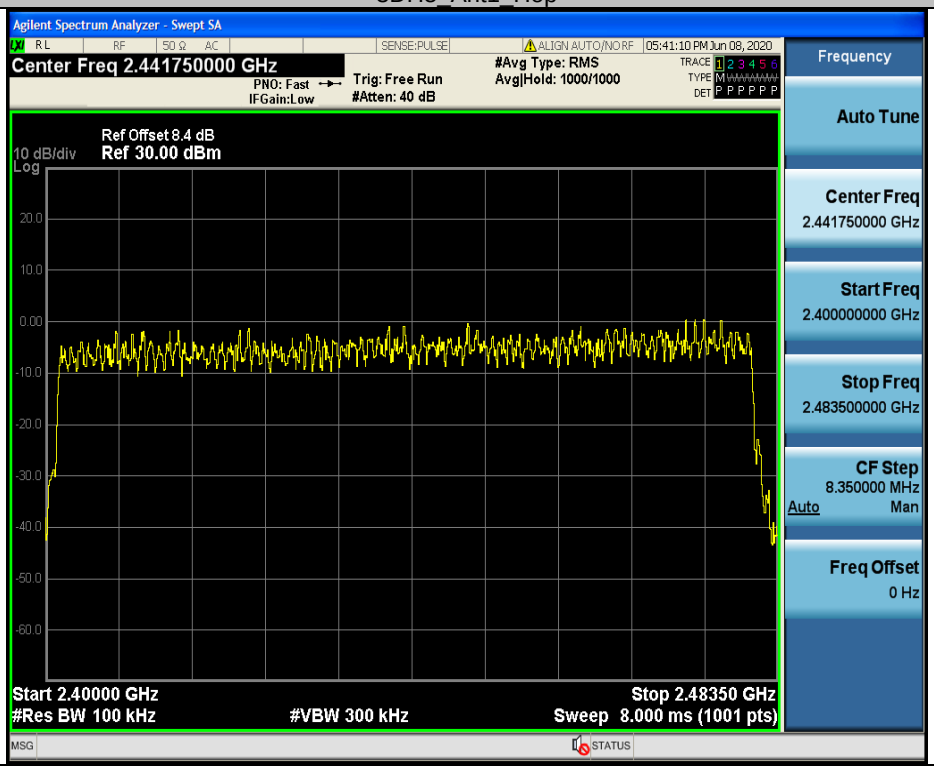
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

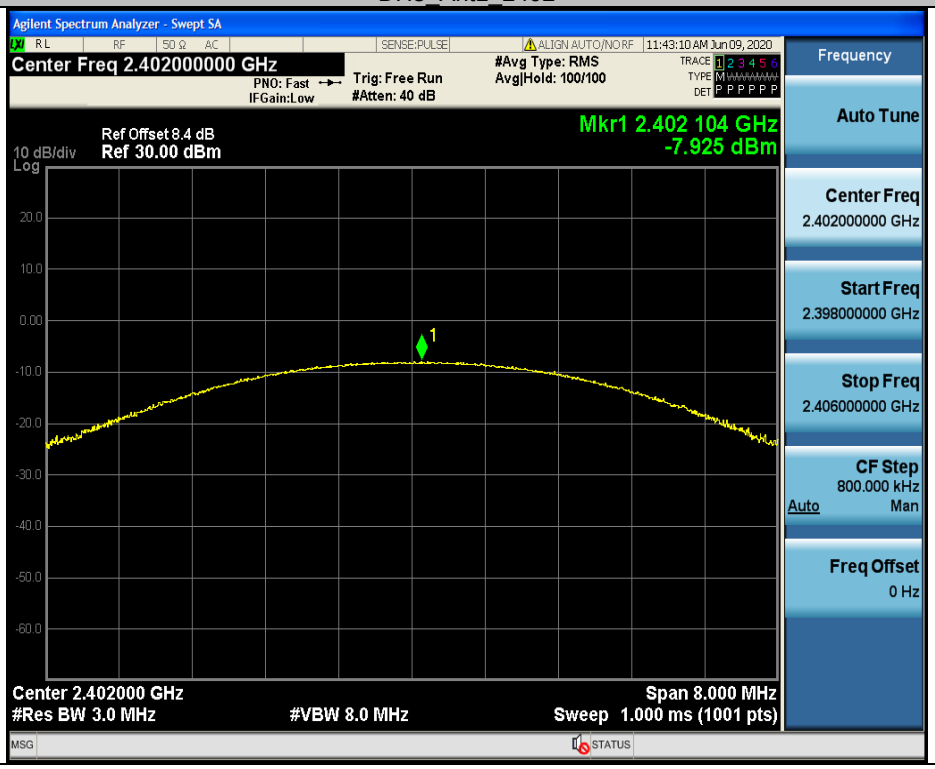


A.5 Conducted Peak Output Power

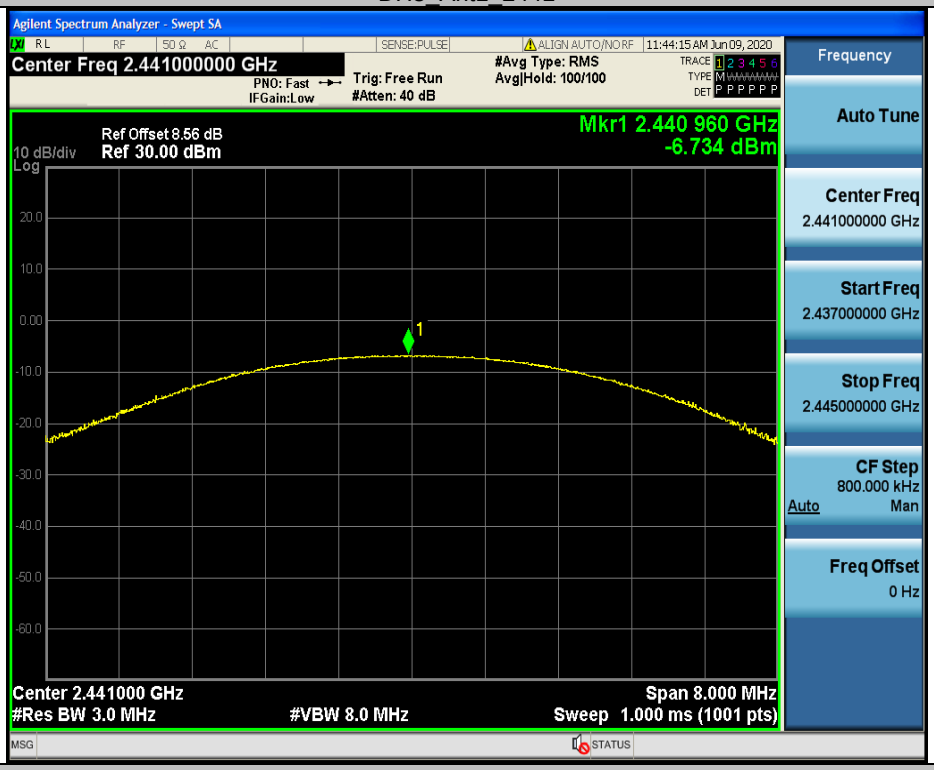
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-7.93	<=20.97	PASS
		2441	-6.73	<=20.97	PASS
		2480	-6.19	<=20.97	PASS
2DH5	Ant1	2402	-9.80	<=20.97	PASS
		2441	-7.72	<=20.97	PASS
		2480	-7.32	<=20.97	PASS
3DH5	Ant1	2402	-9.34	<=20.97	PASS
		2441	-7.46	<=20.97	PASS
		2480	-7.12	<=20.97	PASS

Test Graph

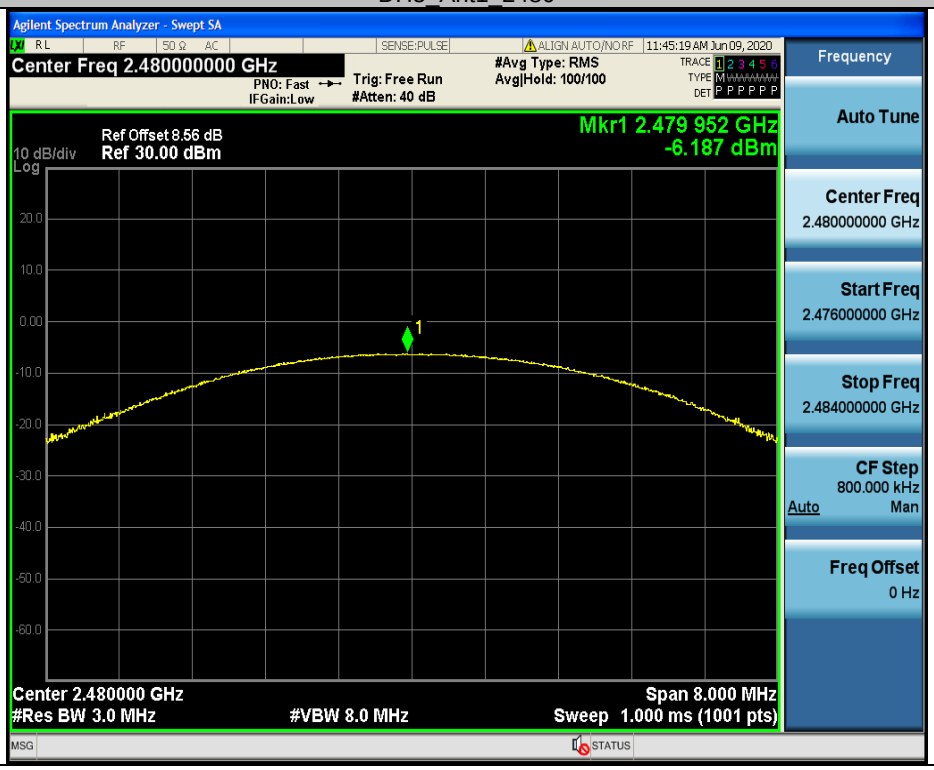
DH5_Ant1_2402



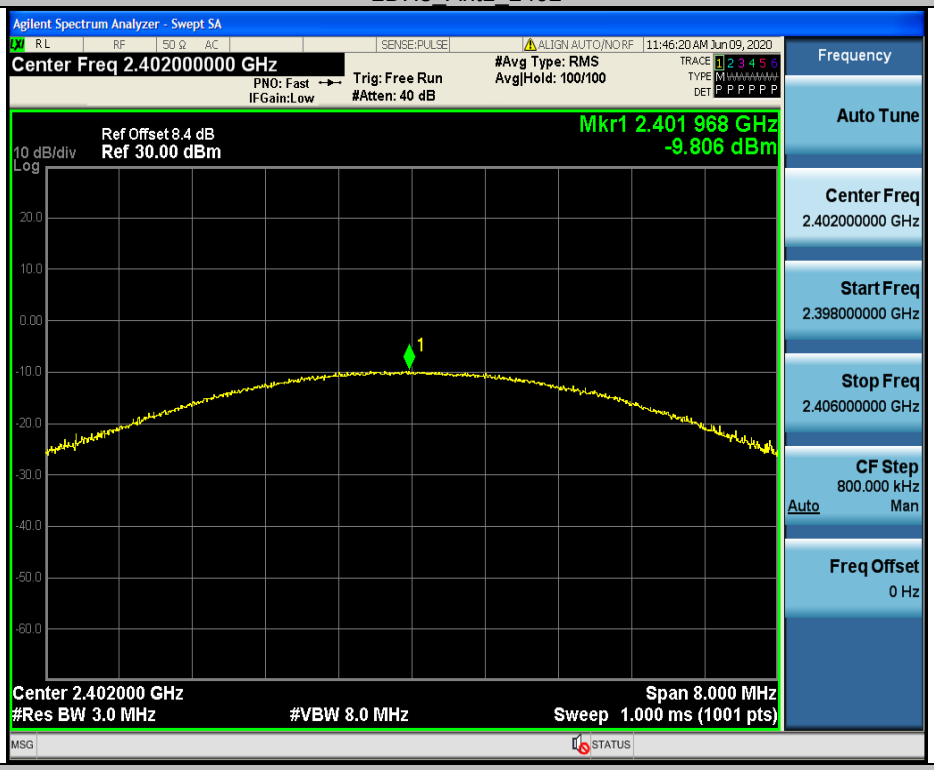
DH5_Ant1_2441



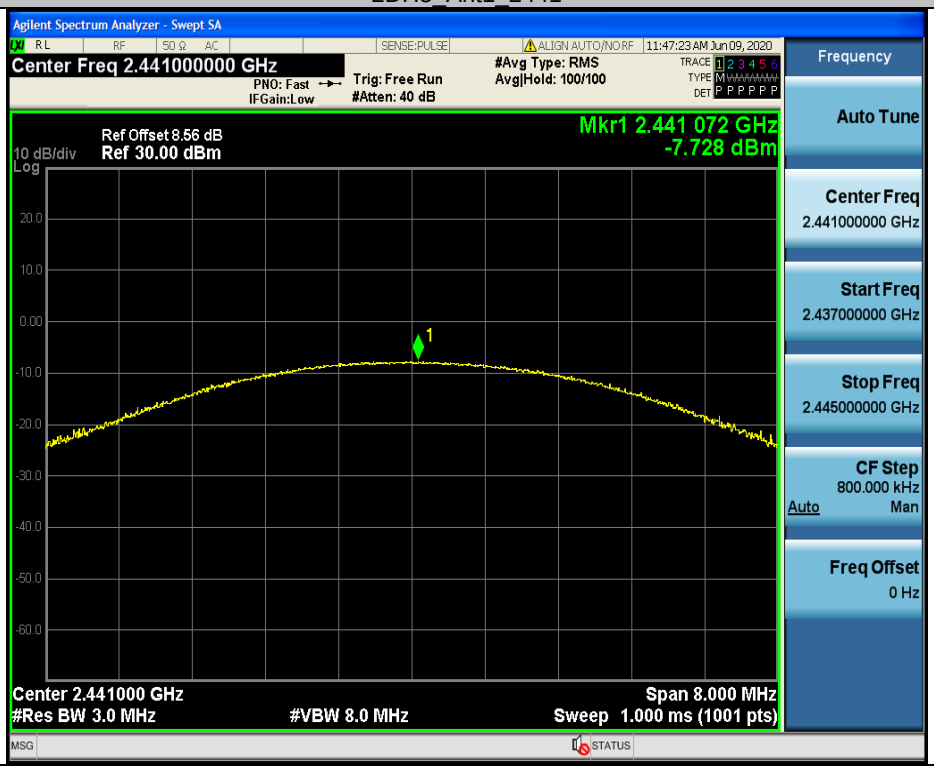
DH5_Ant1_2480



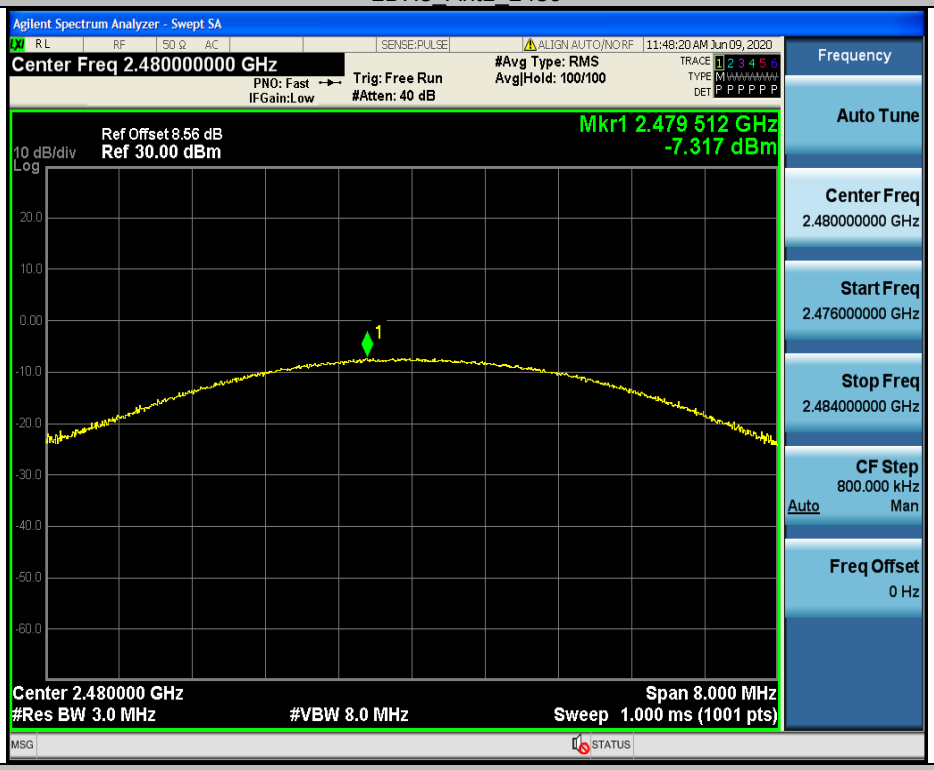
2DH5_Ant1_2402



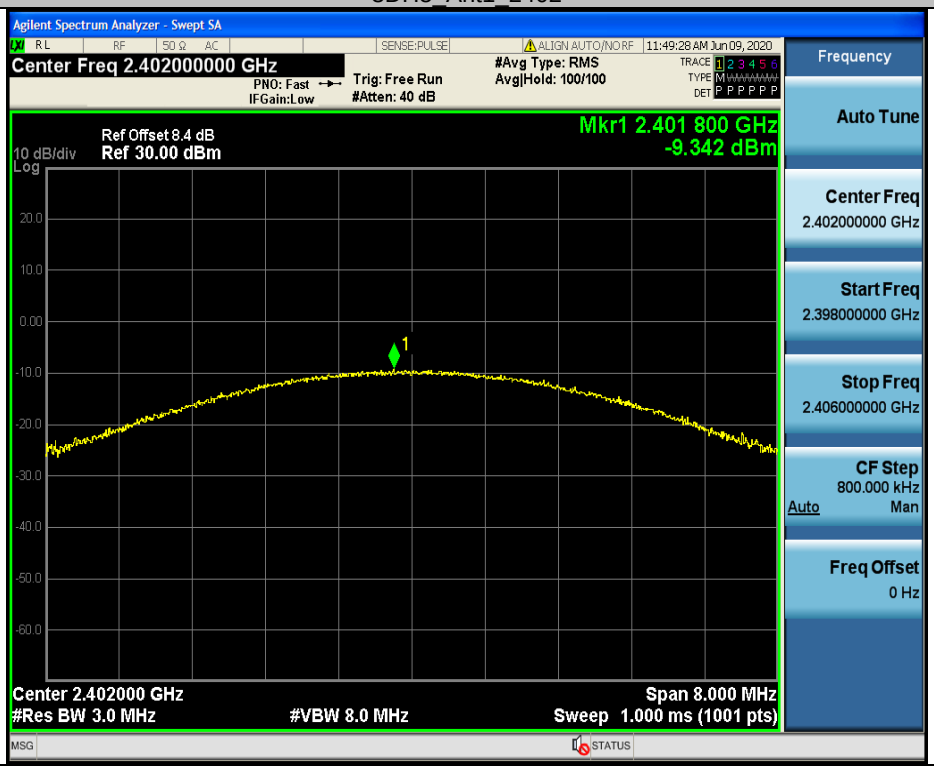
2DH5_Ant1_2441



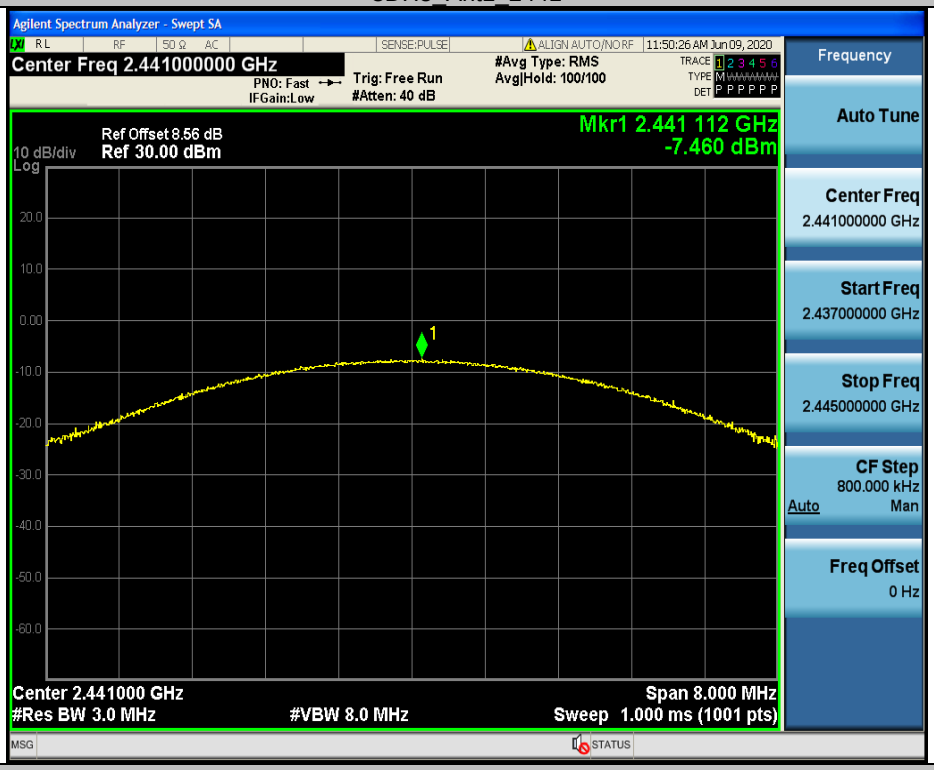
2DH5_Ant1_2480



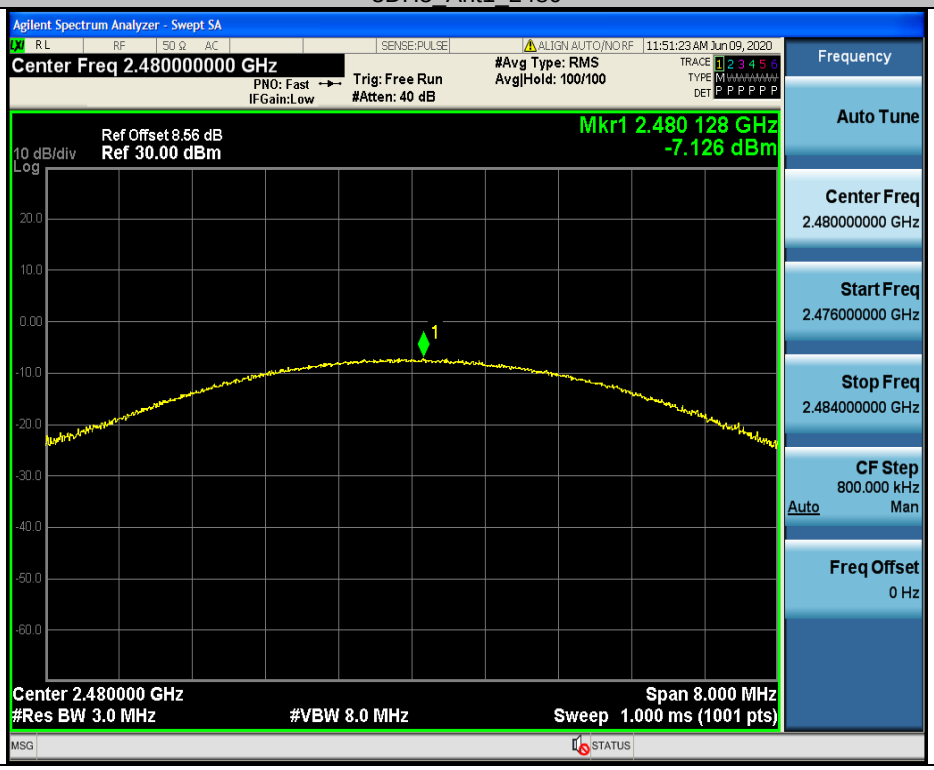
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

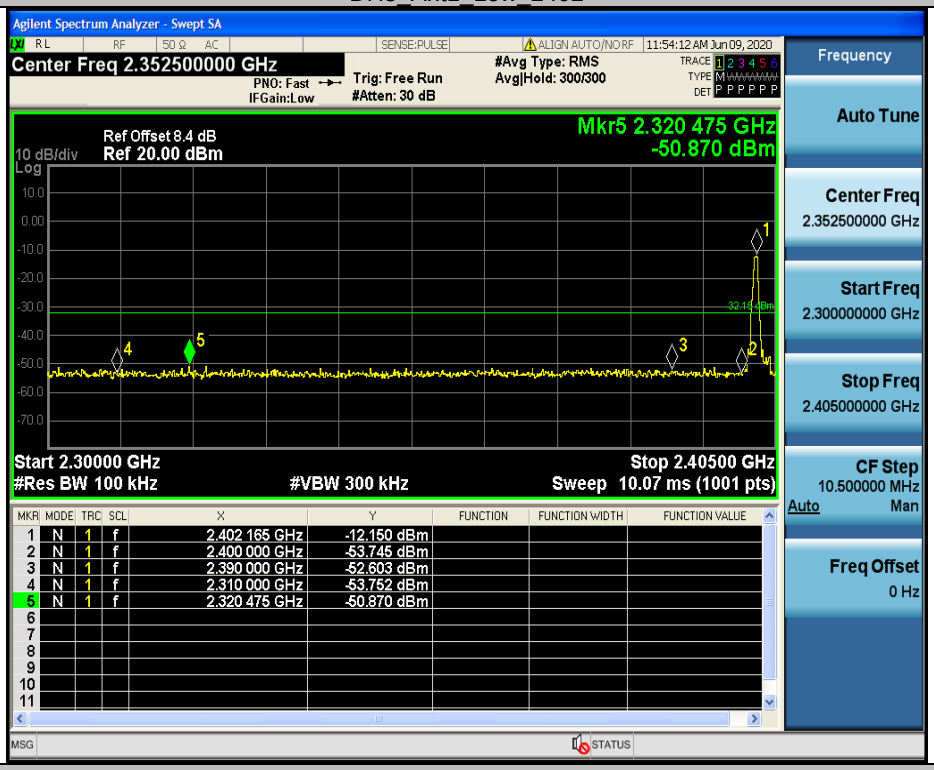


A.6 Band-edge for RF Conducted Emissions

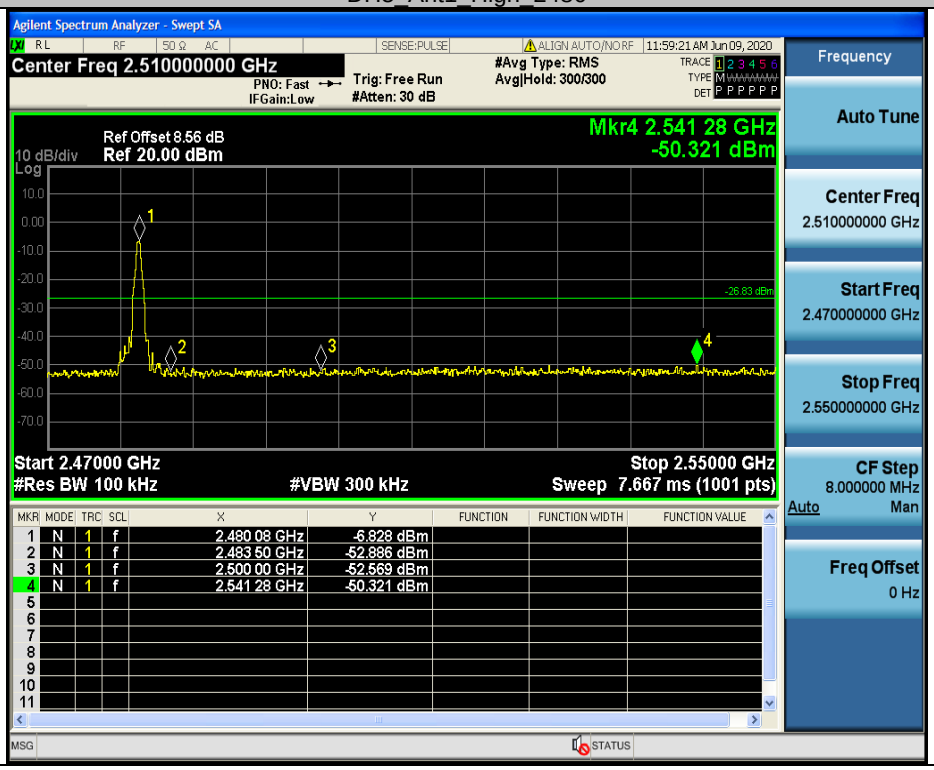
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-8.43	-50.87	<=-28.43	PASS
		High	2480	-6.24	-50.33	<=-26.24	PASS
		Low	Hop_2402	-8.71	-51.45	-28.71	PASS
		High	Hop_2480	-6.68	-50.23	-26.68	PASS
2DH5	Ant1	Low	2402	-8.33	-46.89	<=-28.33	PASS
		High	2480	-6.44	-50.04	<=-26.44	PASS
		Low	Hop_2402	-9.29	-50.78	-29.29	PASS
		High	Hop_2480	-6.79	-49.99	-26.79	PASS
3DH5	Ant1	Low	2402	-8.37	-46.43	<=-28.37	PASS
		High	2480	-6.43	-49.44	<=-26.43	PASS
		Low	Hop_2402	-11.16	-50.87	-31.16	PASS
		High	Hop_2480	-8.13	-49.46	-28.13	PASS

Test Graph

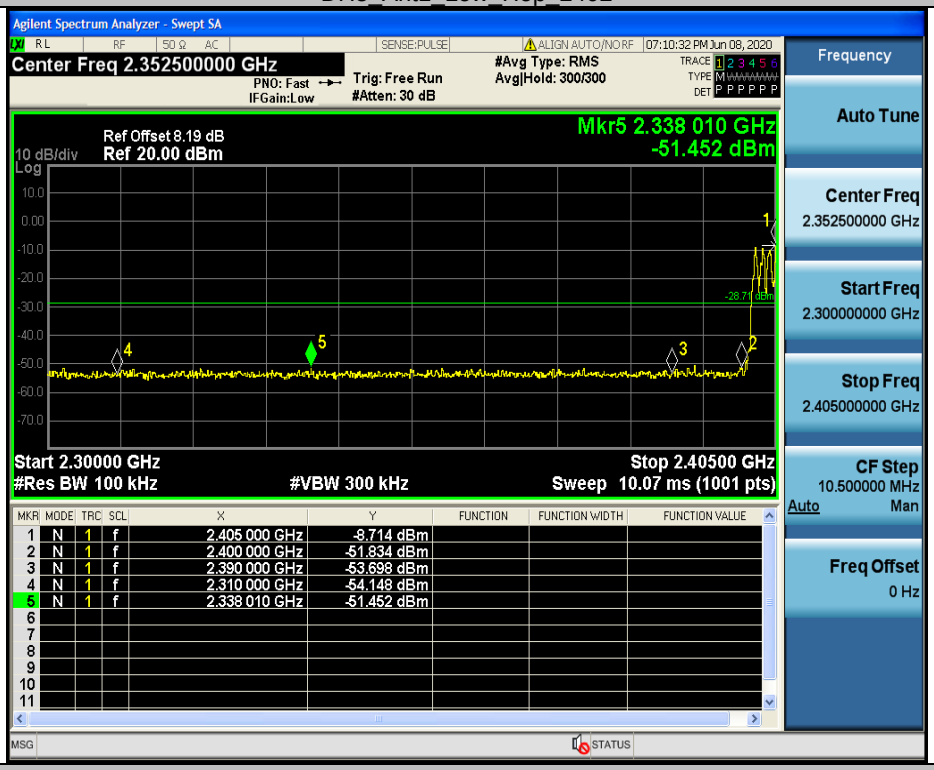
DH5_Ant1_Low_2402



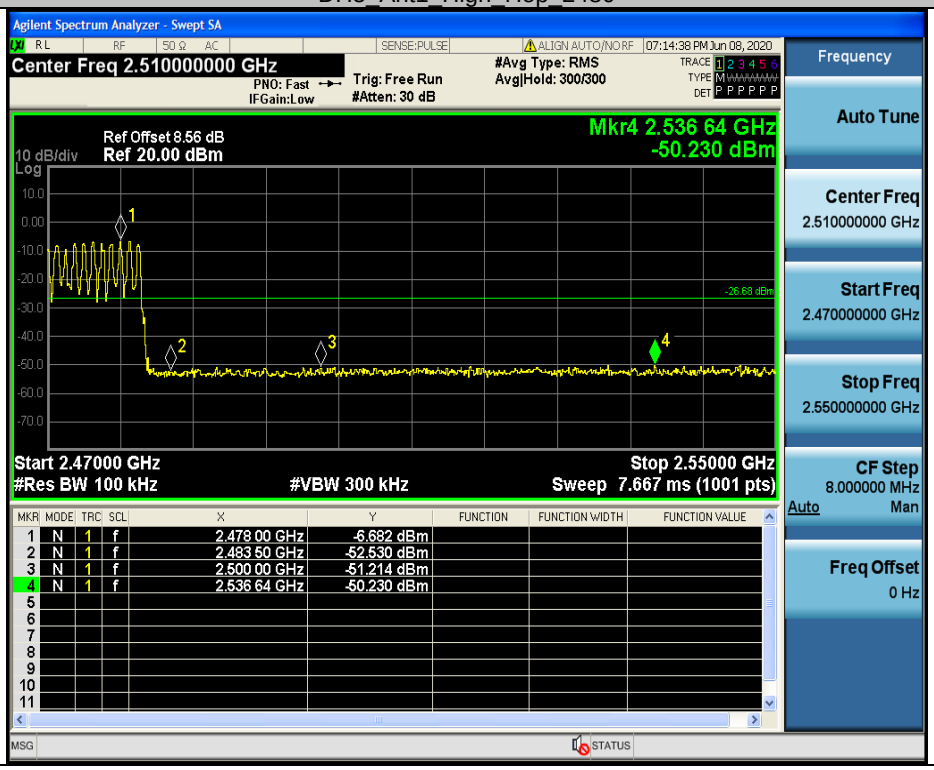
DH5_Ant1_High_2480



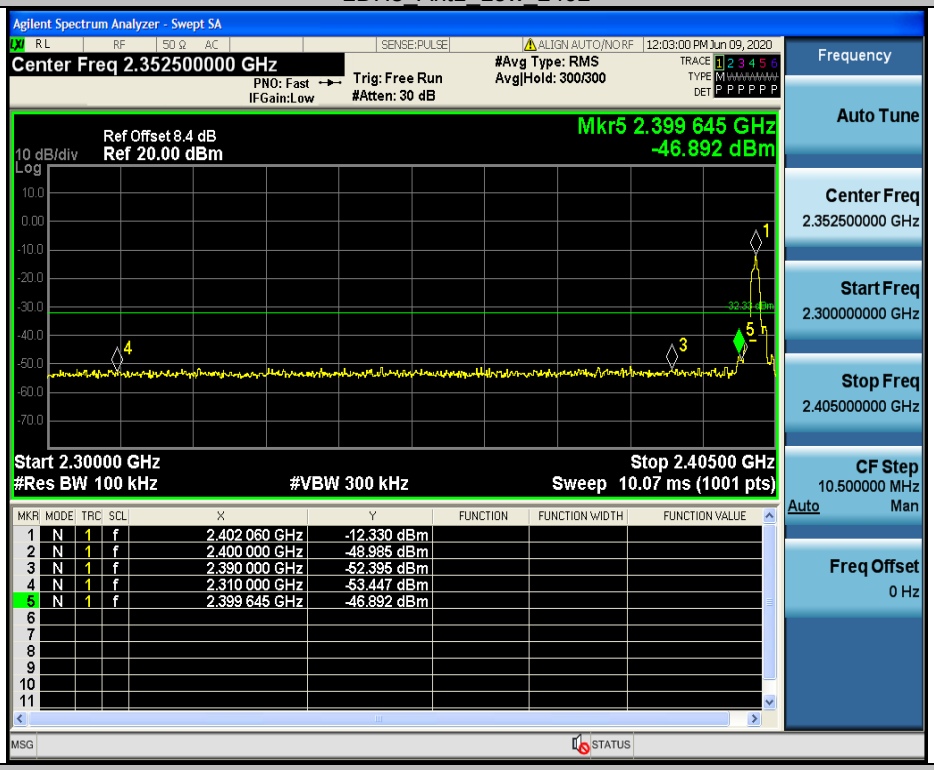
DH5_Ant1_Low_Hop_2402



DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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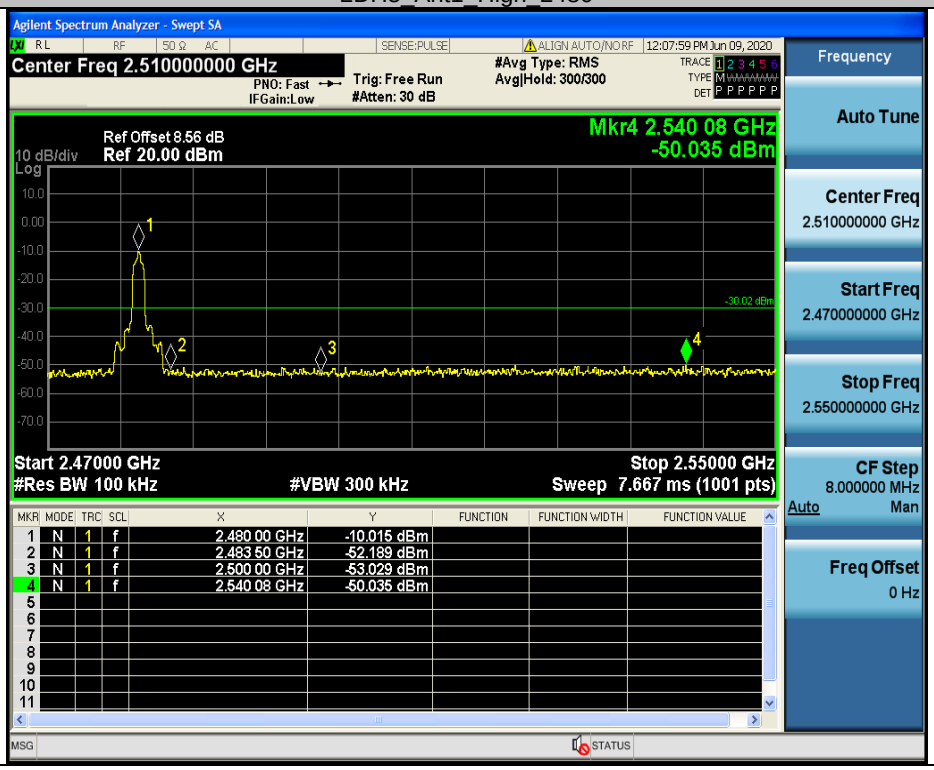

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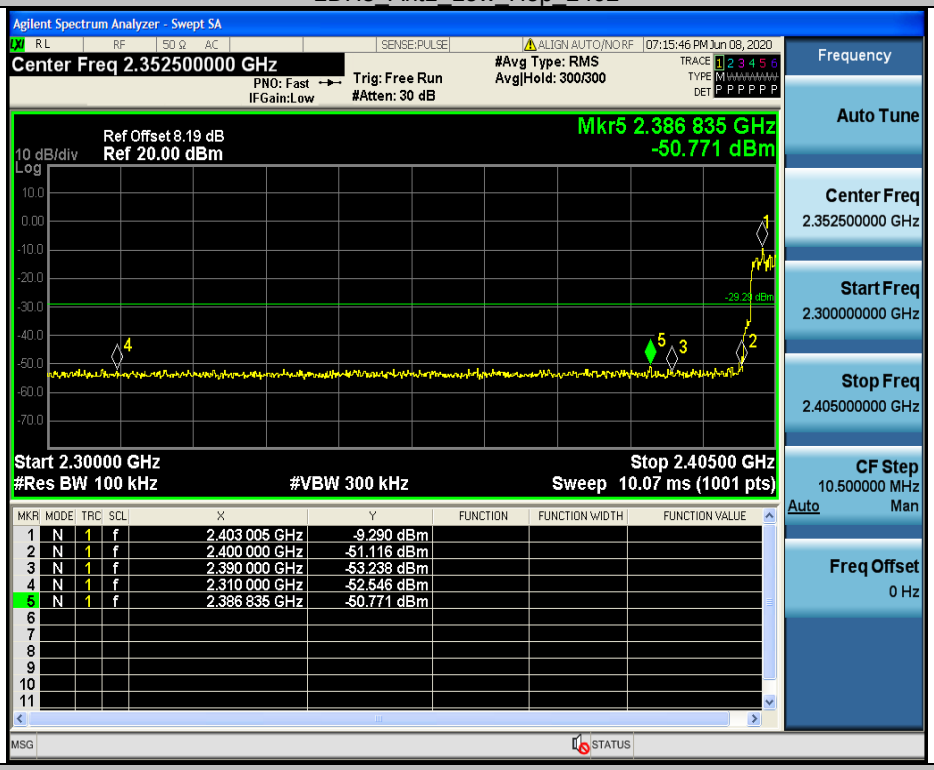
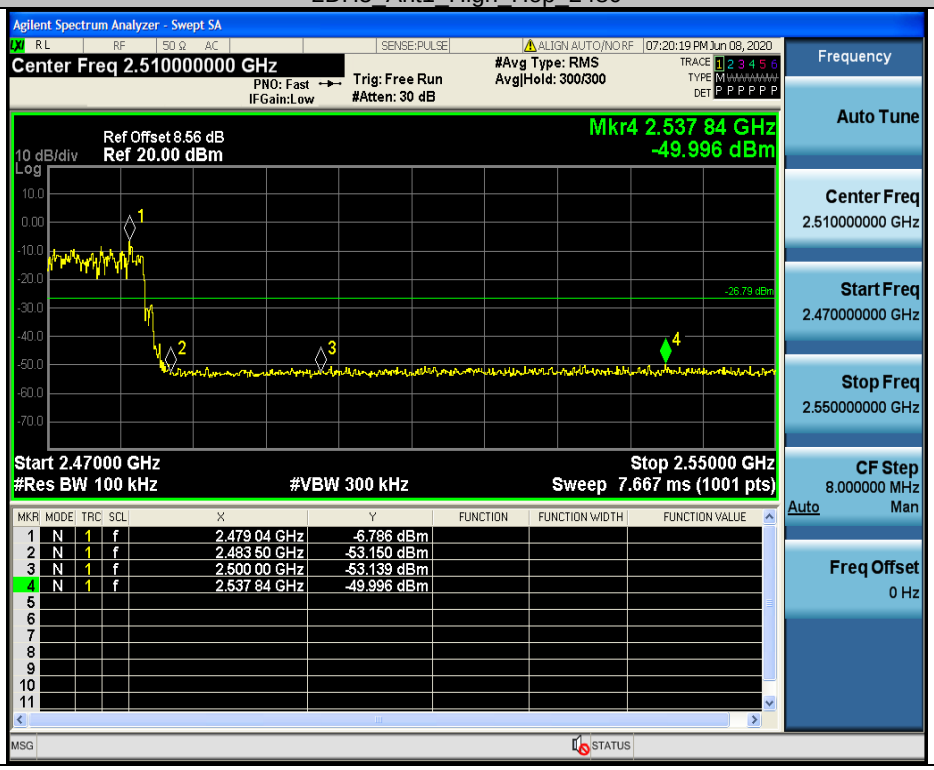
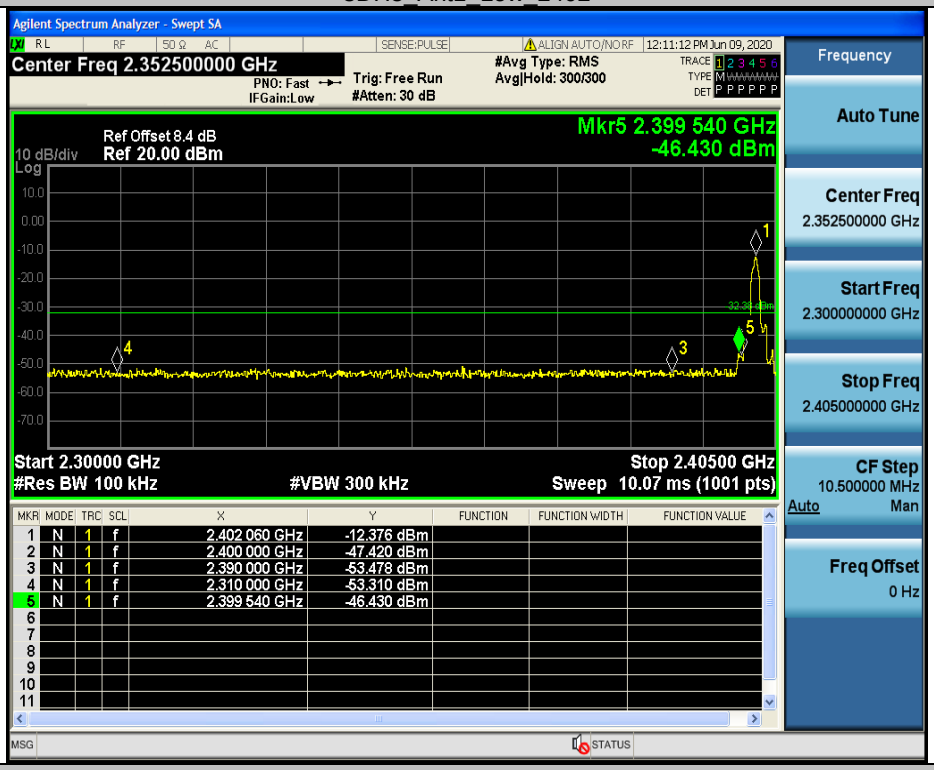


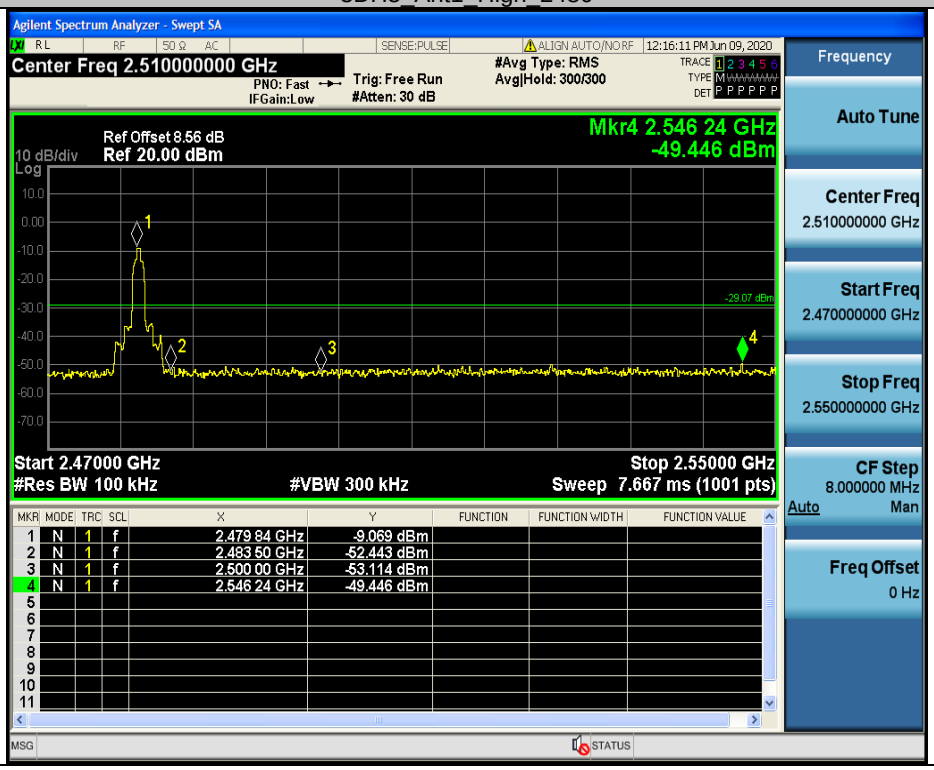
2DH5_Ant1_High_Hop_2480



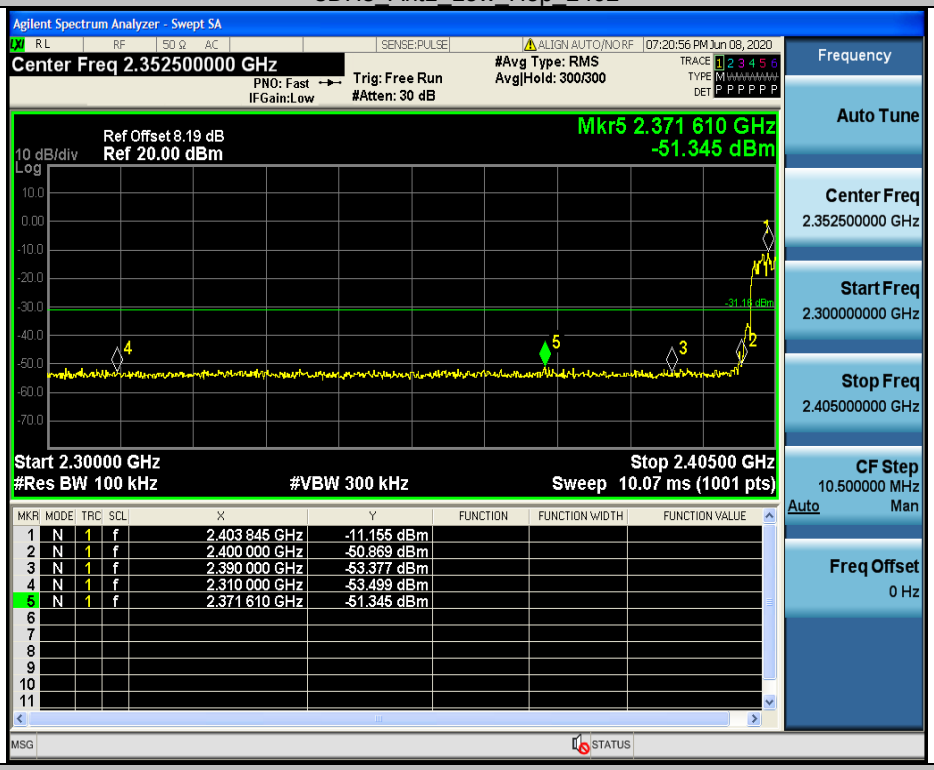
3DH5_Ant1_Low_2402



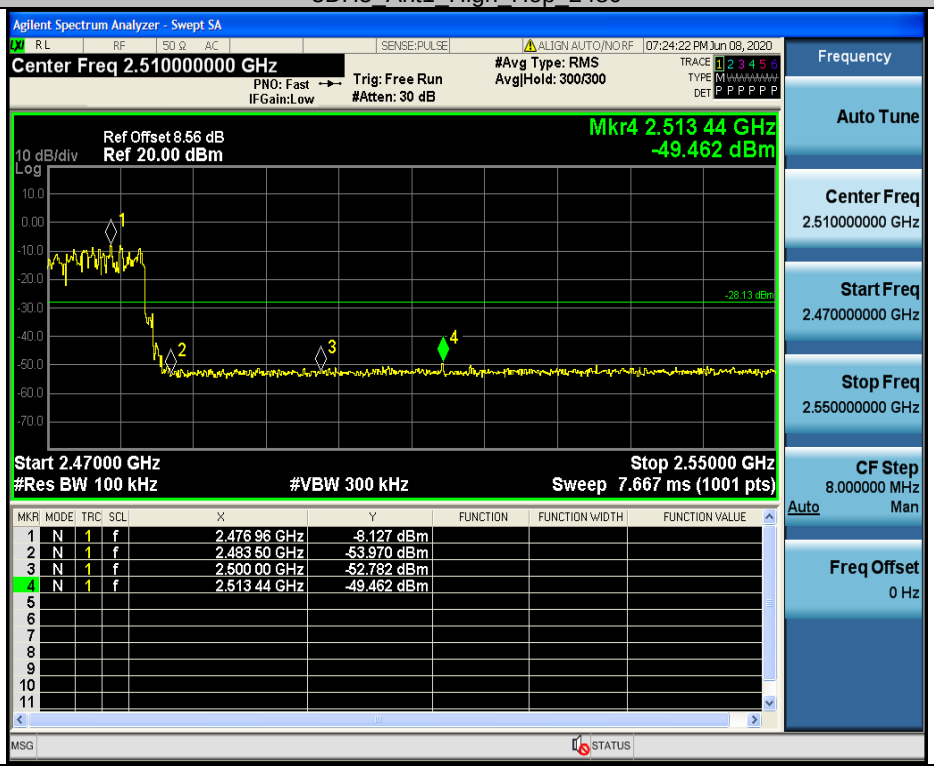
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

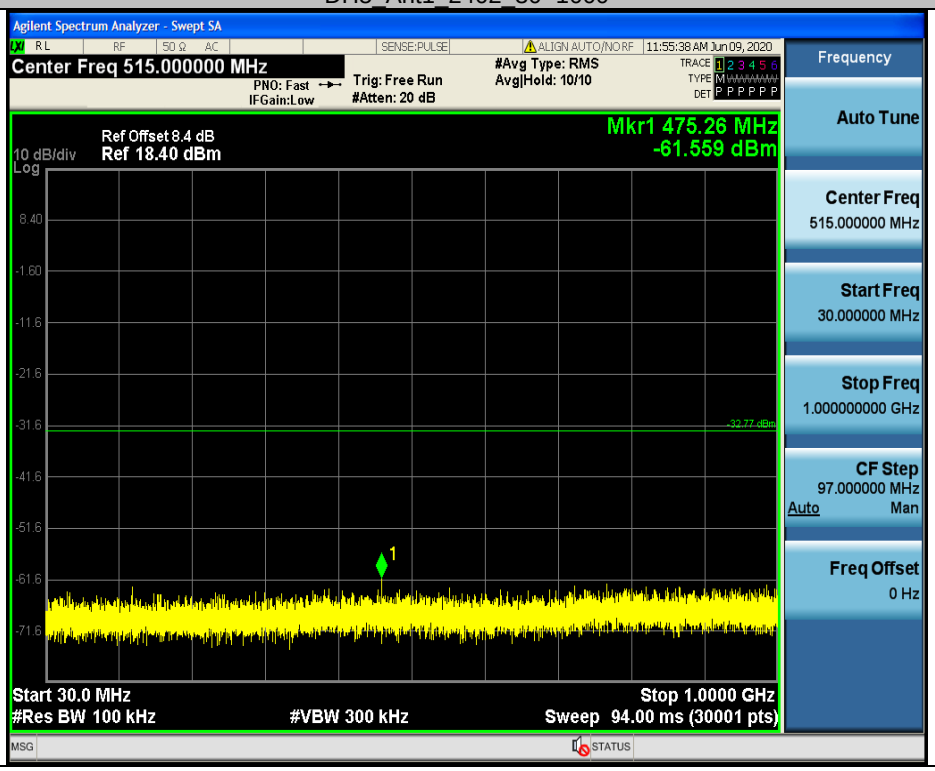


A.7 RF Conducted Spurious Emissions

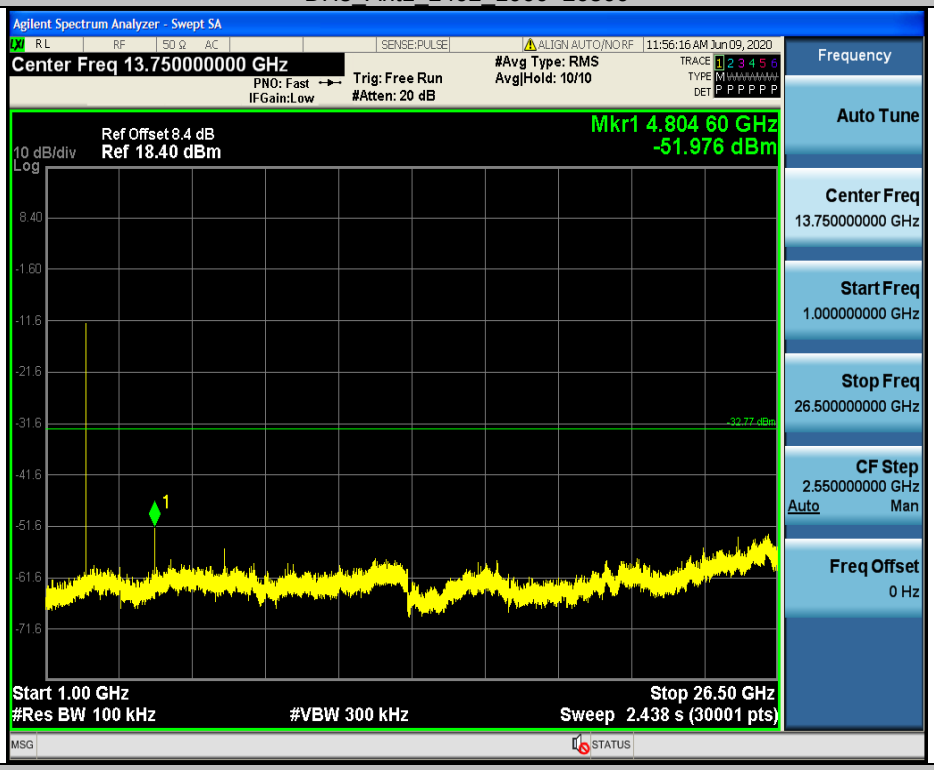
Test Graph

DH5_Ant1_2402_0~Reference

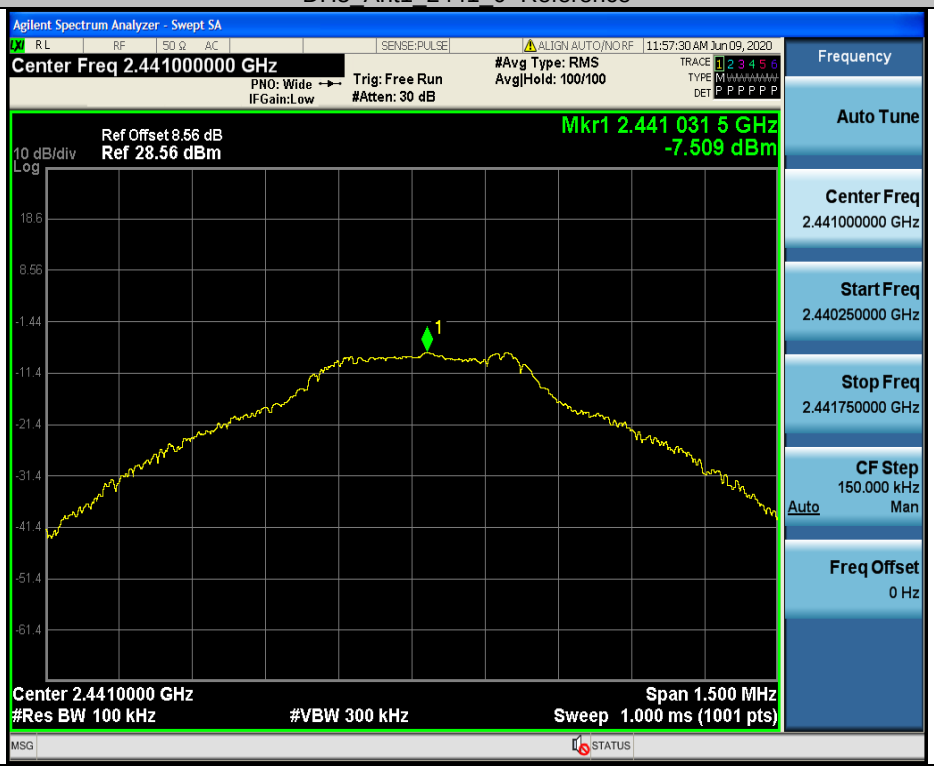
DH5_Ant1_2402_30~1000



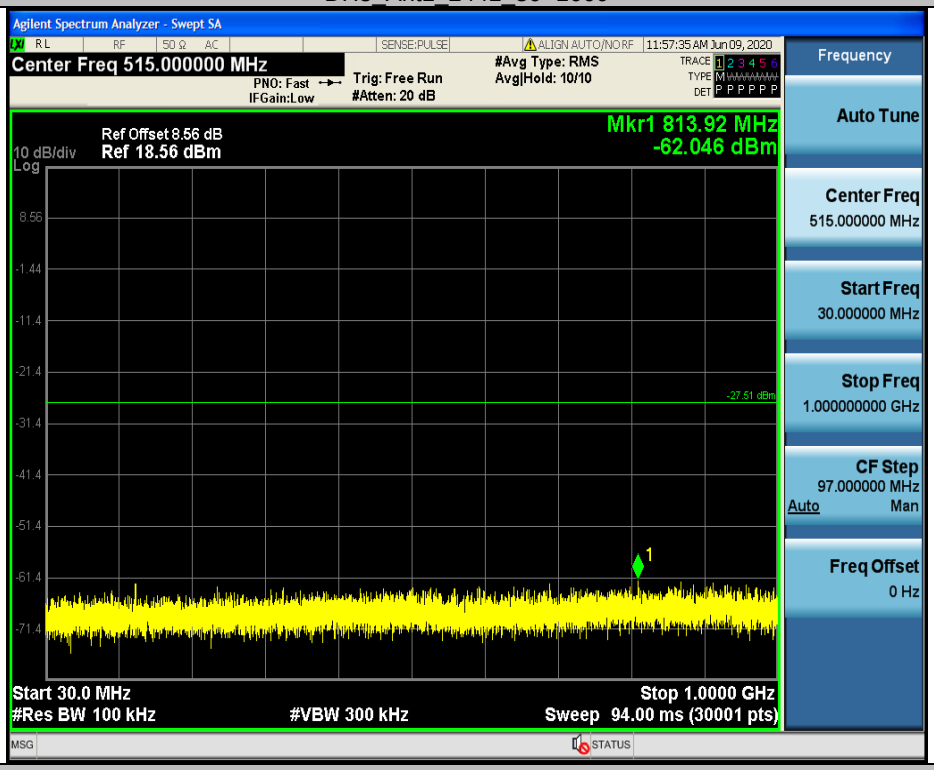
DH5_Ant1_2402_1000~26500



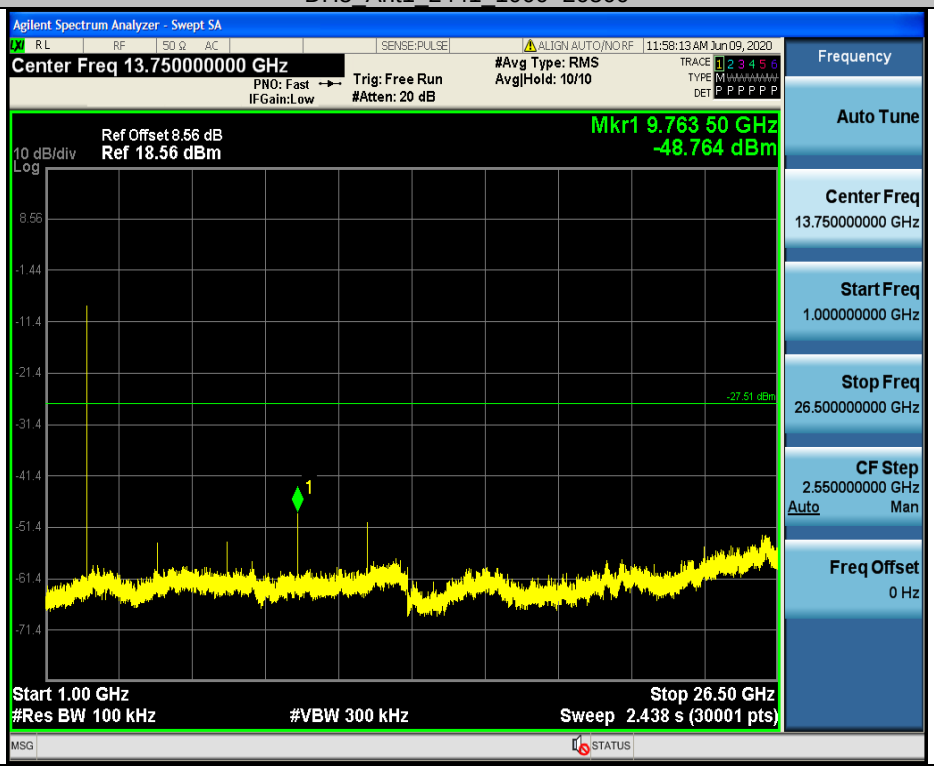
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

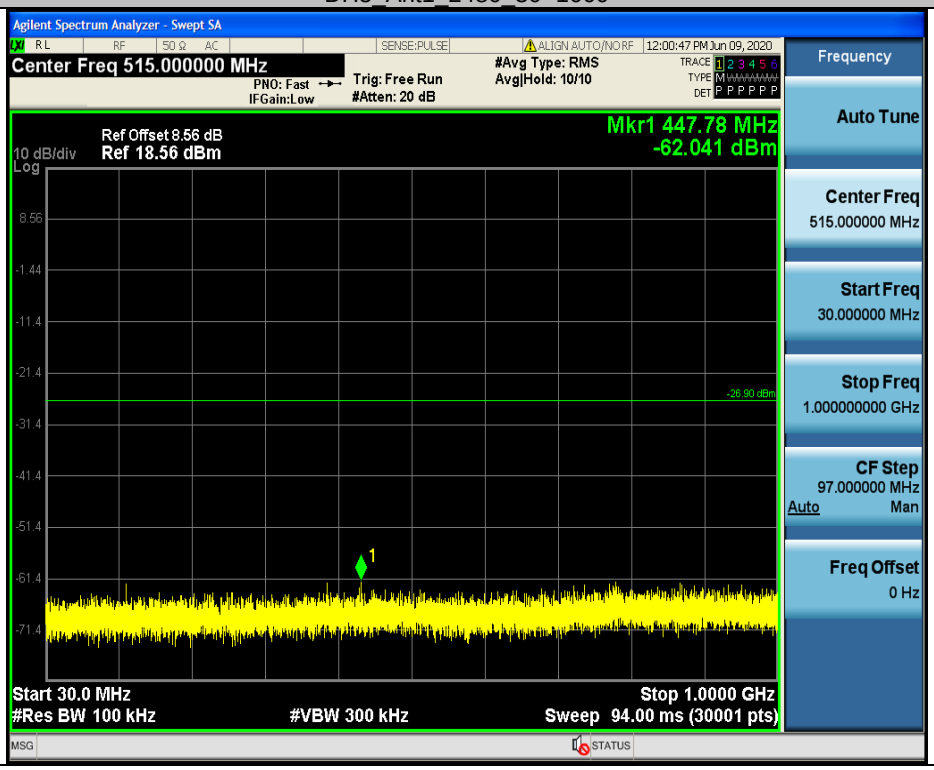


DH5_Ant1_2441_1000~26500

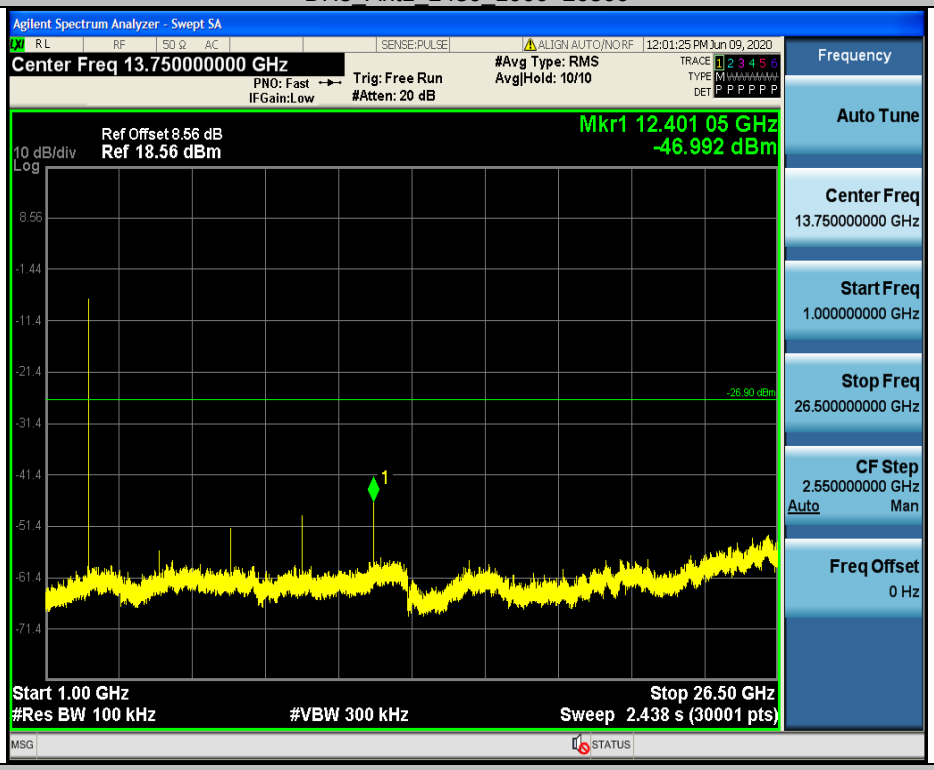


DH5_Ant1_2480_0~Reference

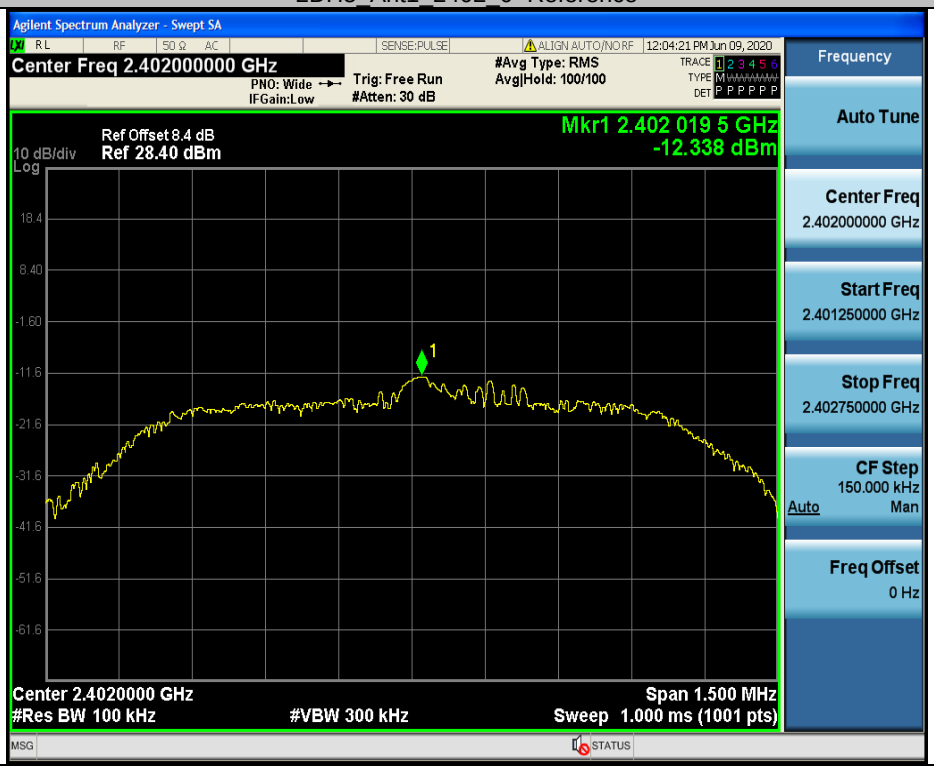
DH5_Ant1_2480_30~1000



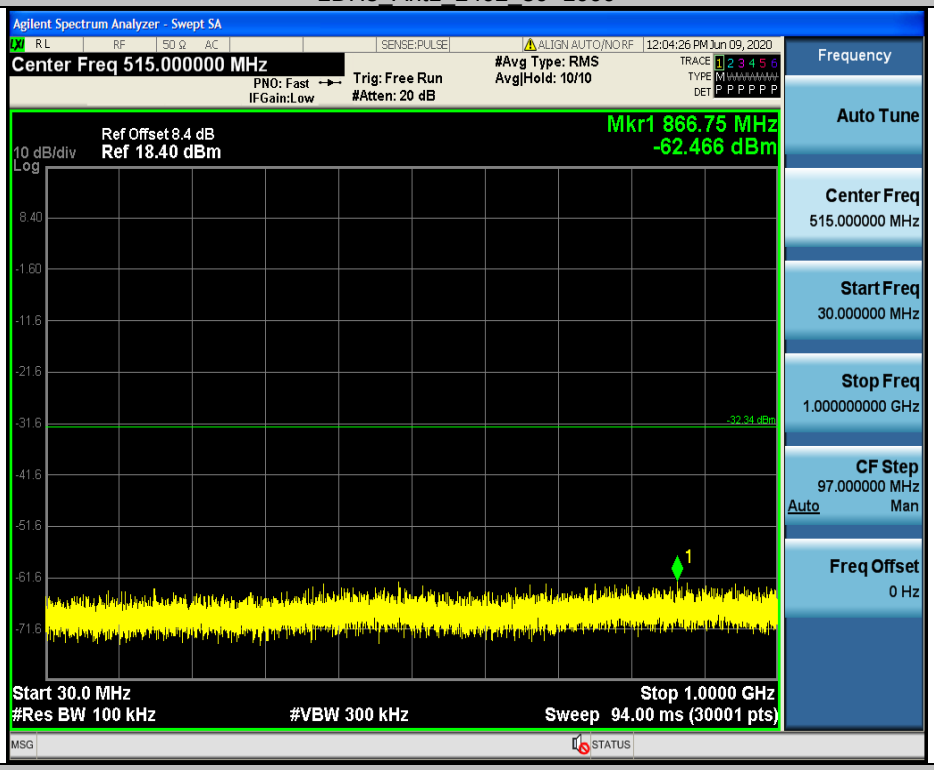
DH5_Ant1_2480_1000~26500



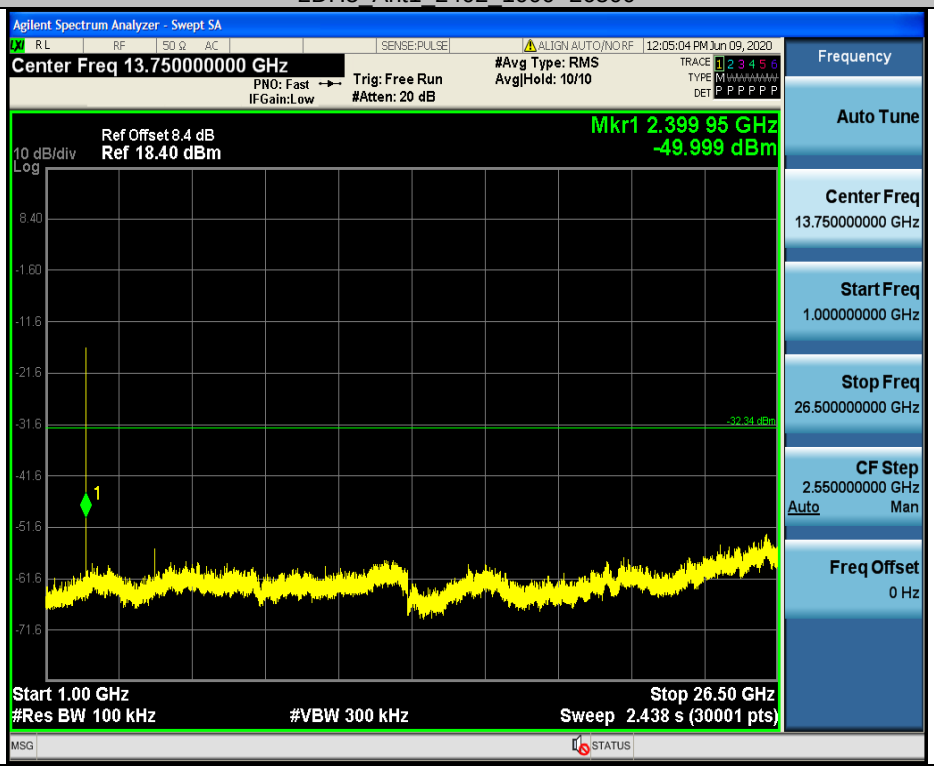
2DH5_Ant1_2402_0~Reference



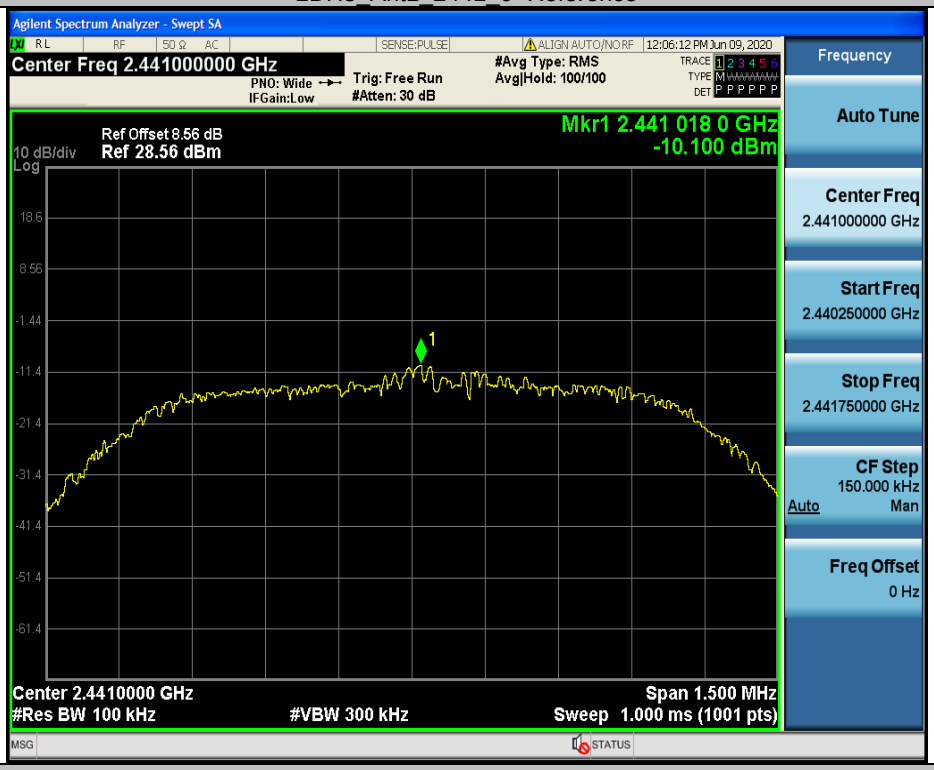
2DH5_Ant1_2402_30~1000



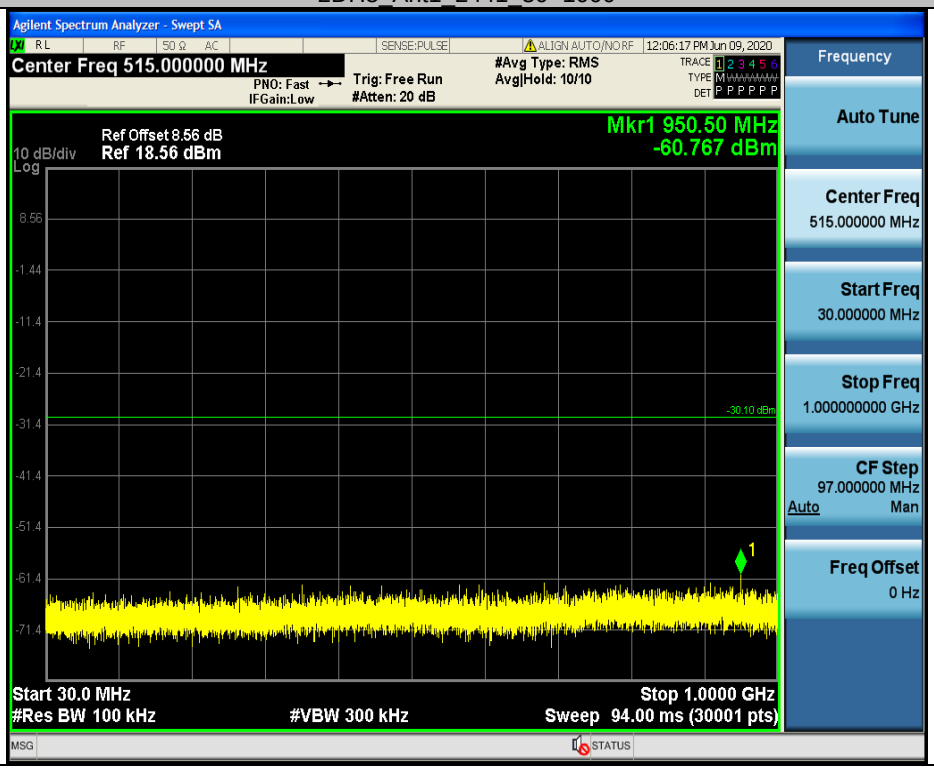
2DH5_Ant1_2402_1000~26500



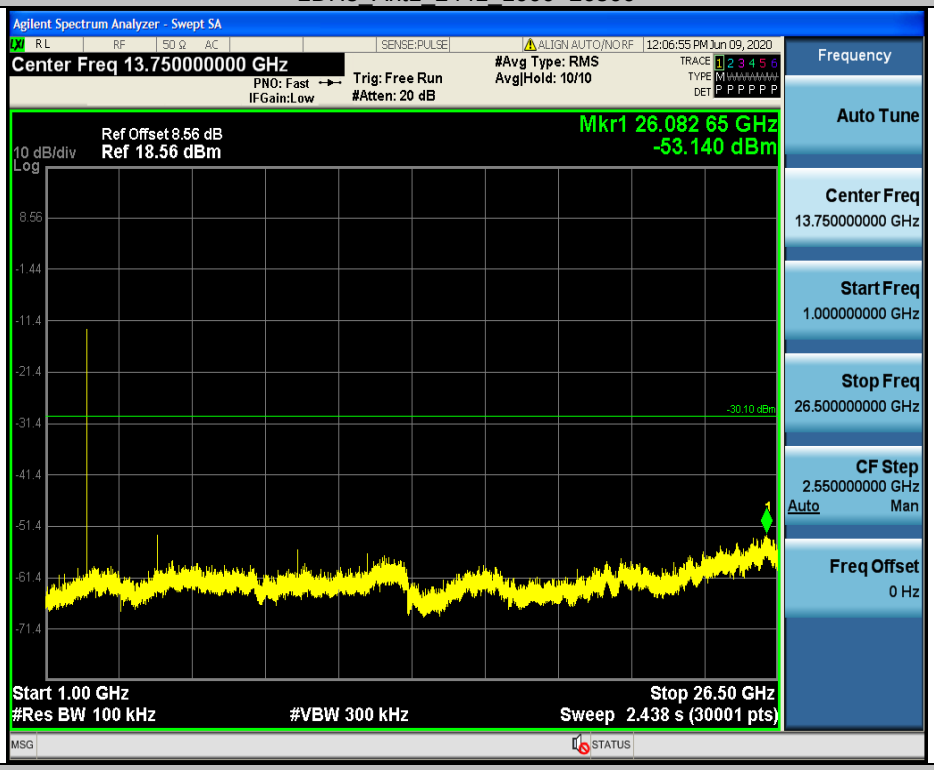
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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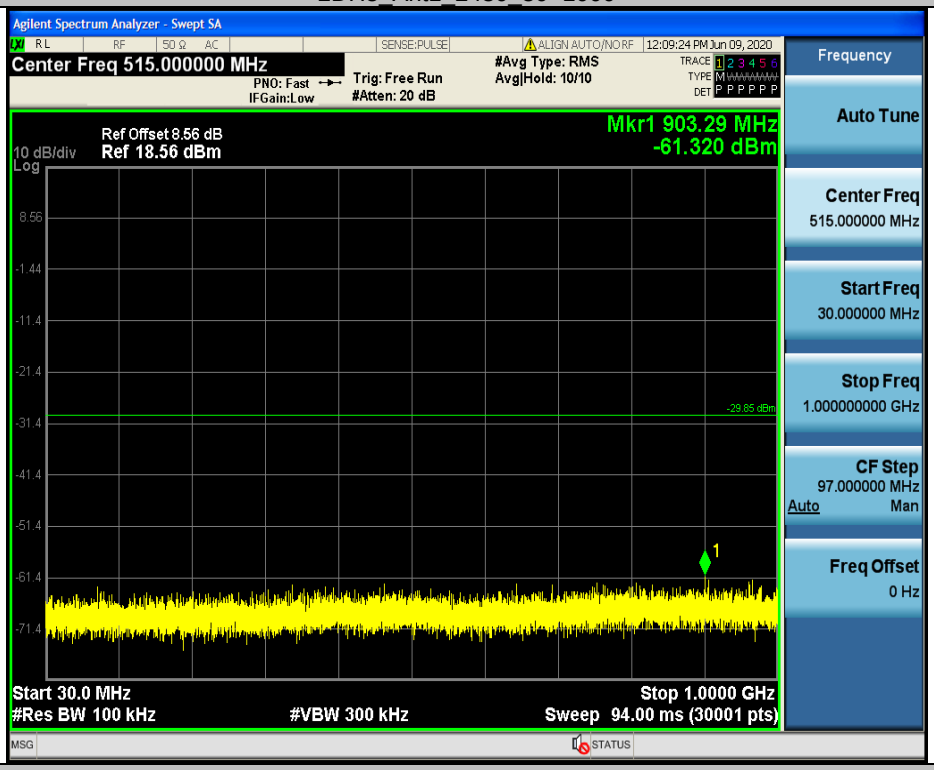

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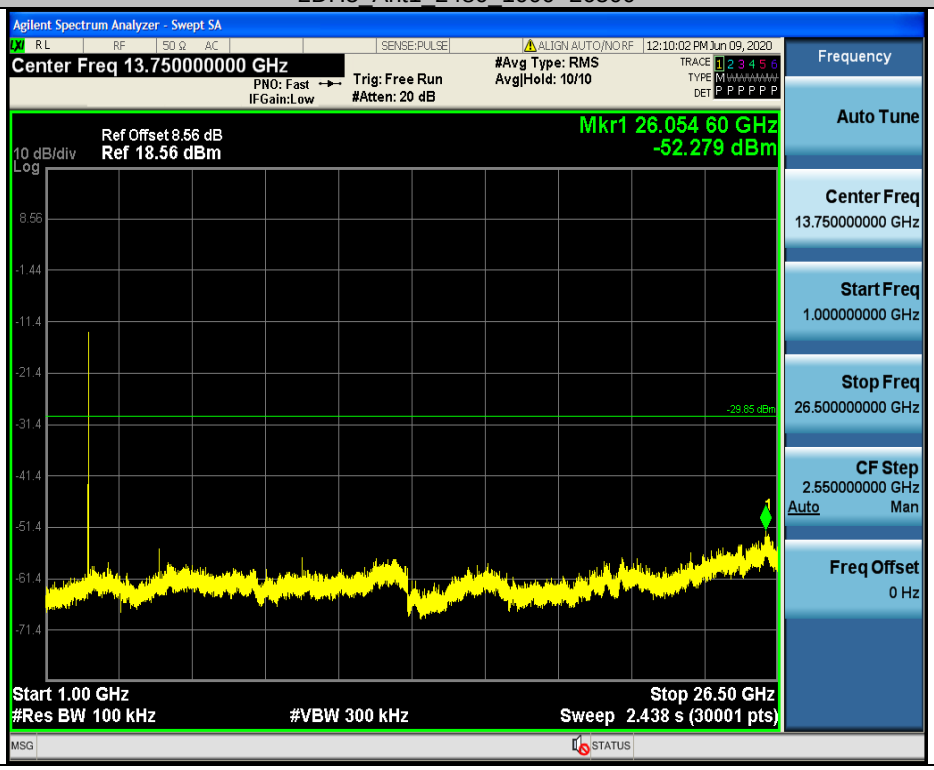

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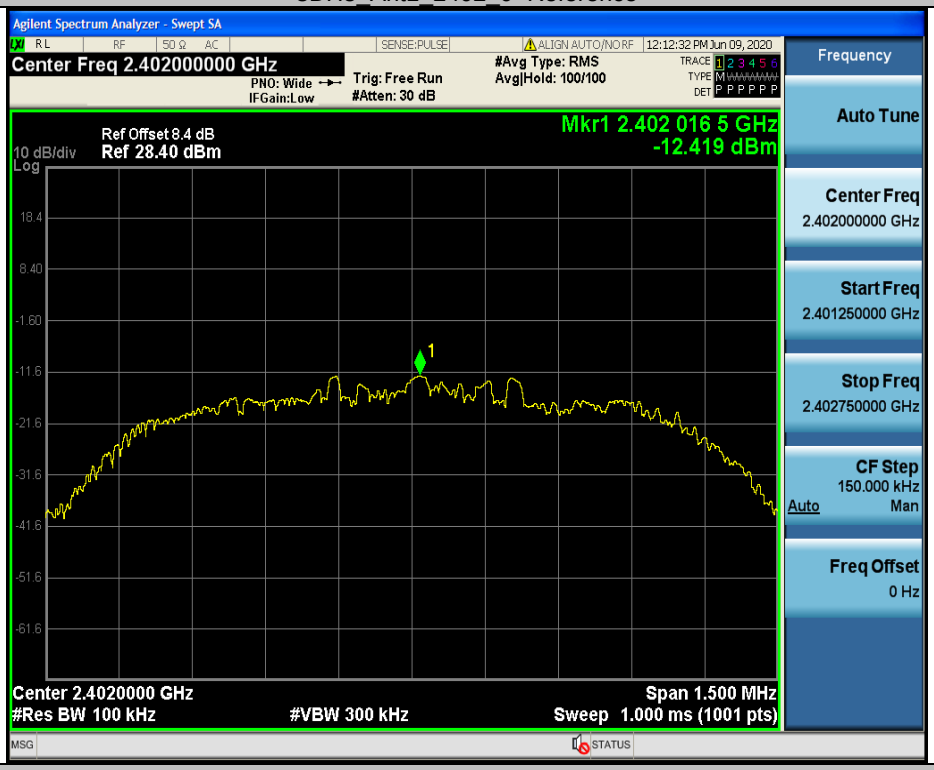

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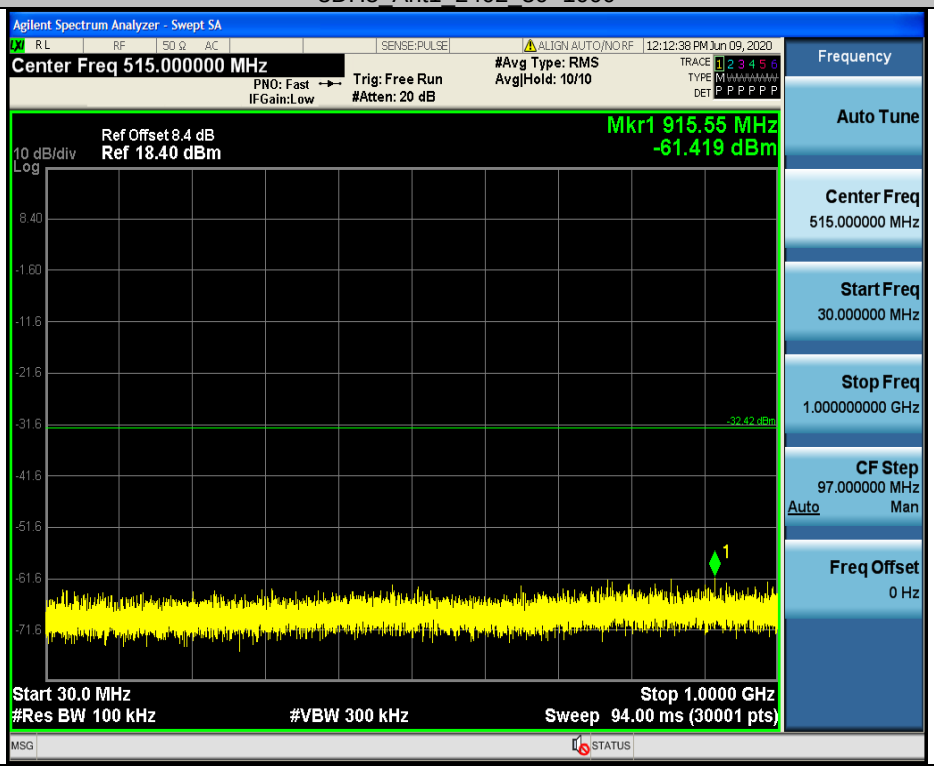
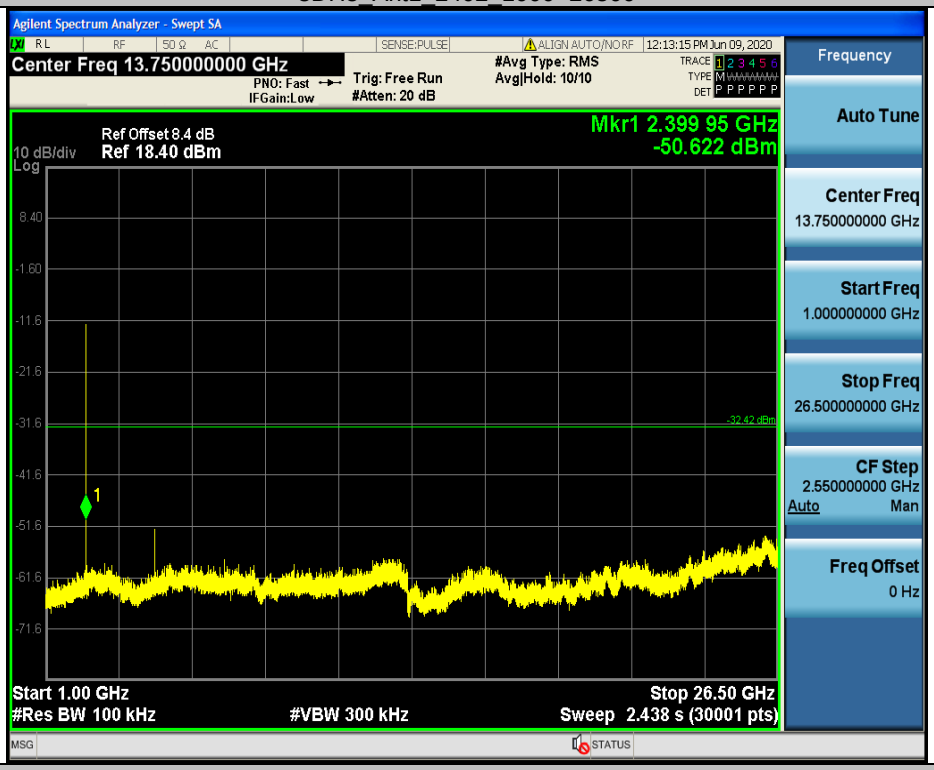
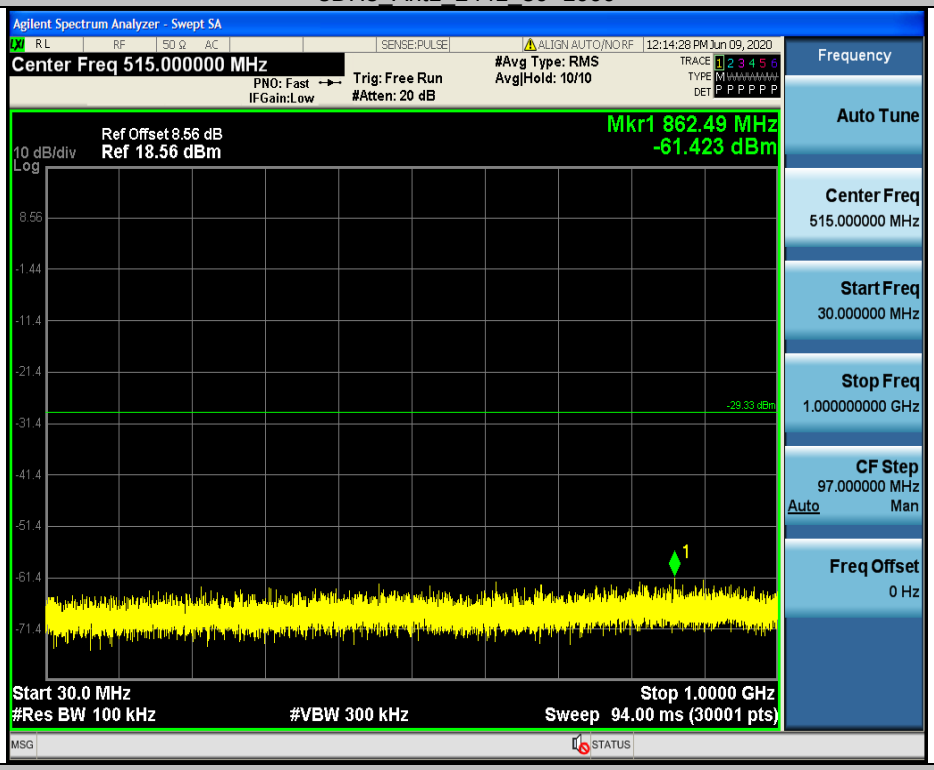


3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference

3DH5_Ant1_2441_30~1000



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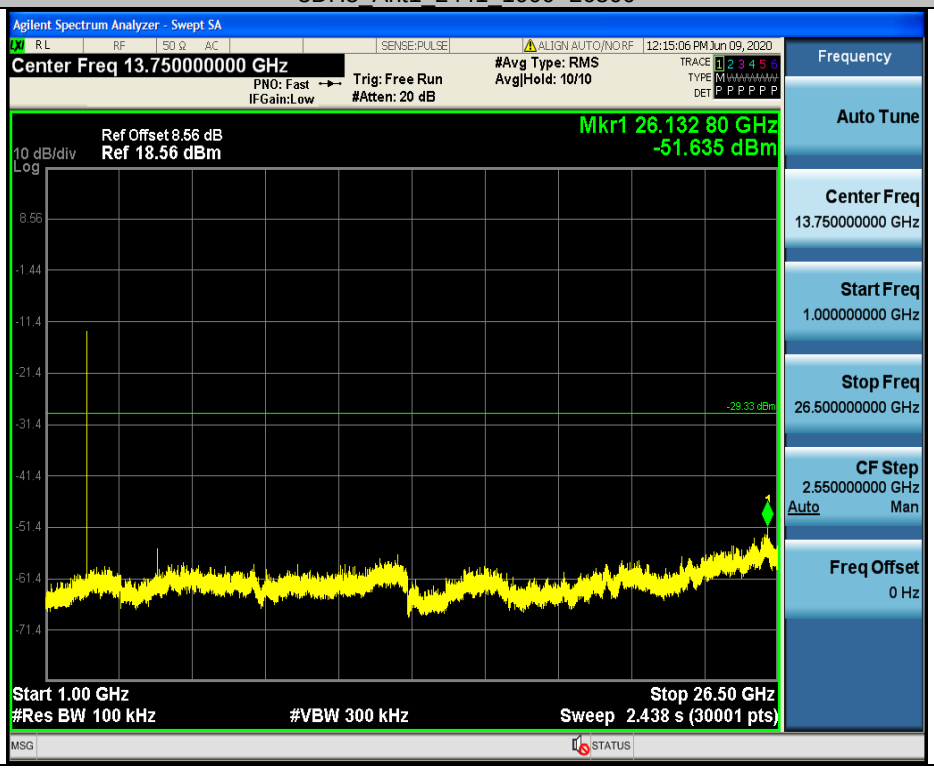

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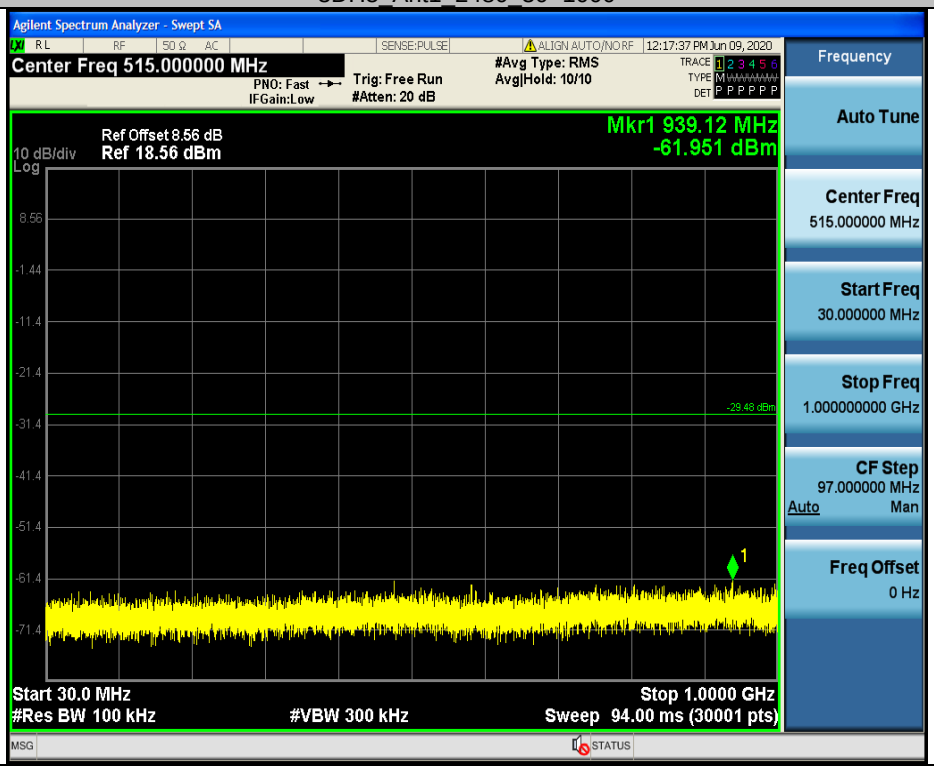
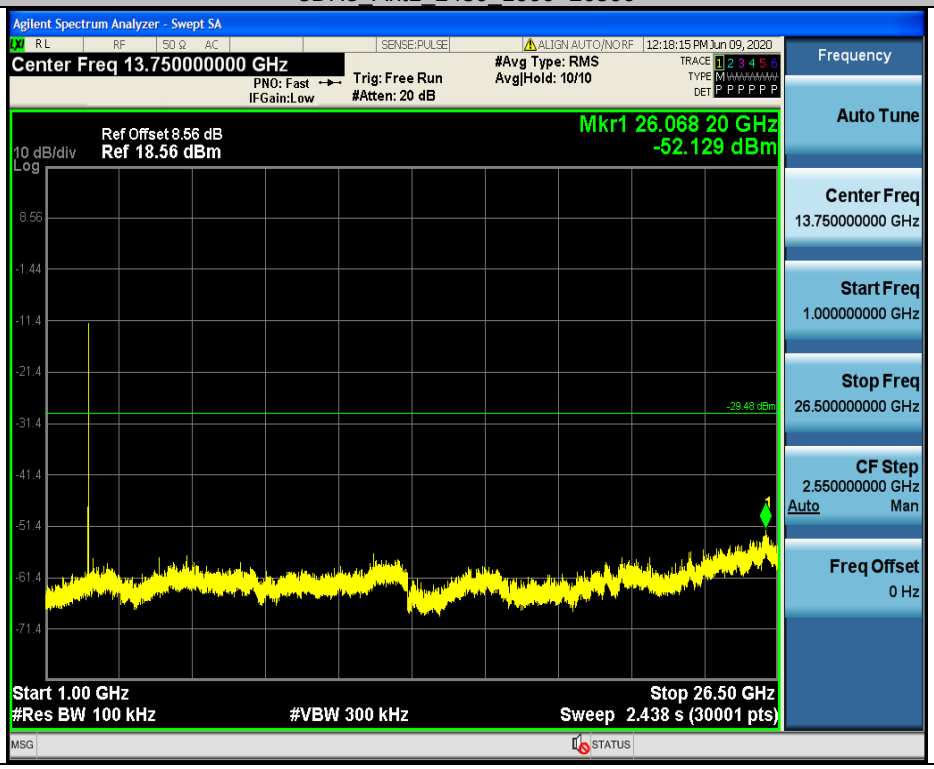
3DH5_Ant1_2480_30~1000



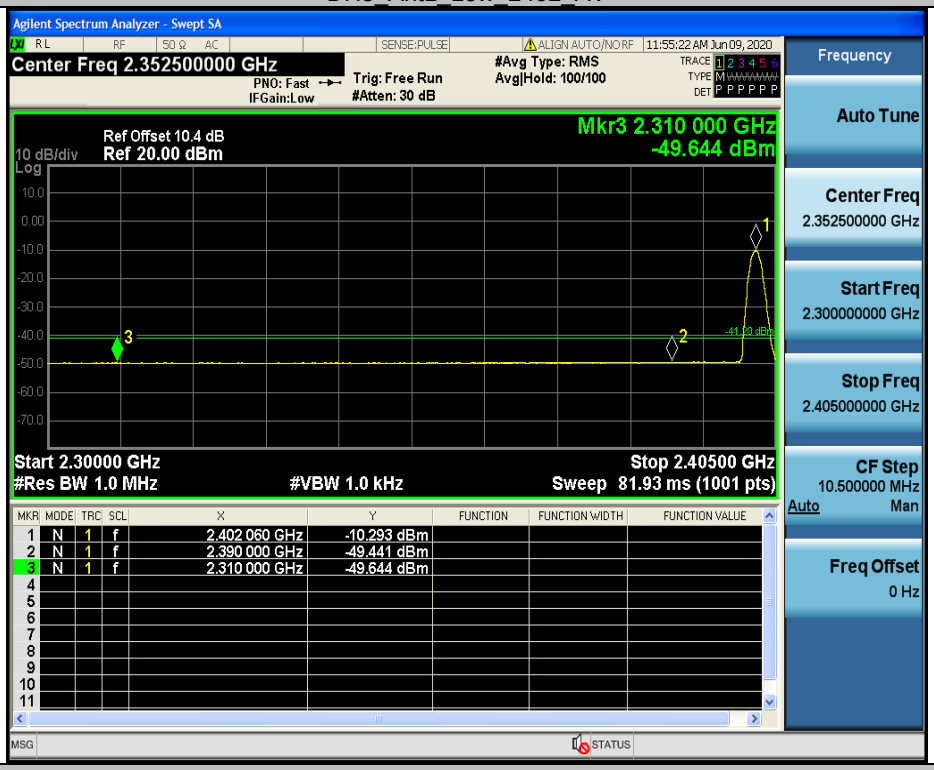
3DH5_Ant1_2480_1000~26500


A.8 Restrict-band band-edge measurements

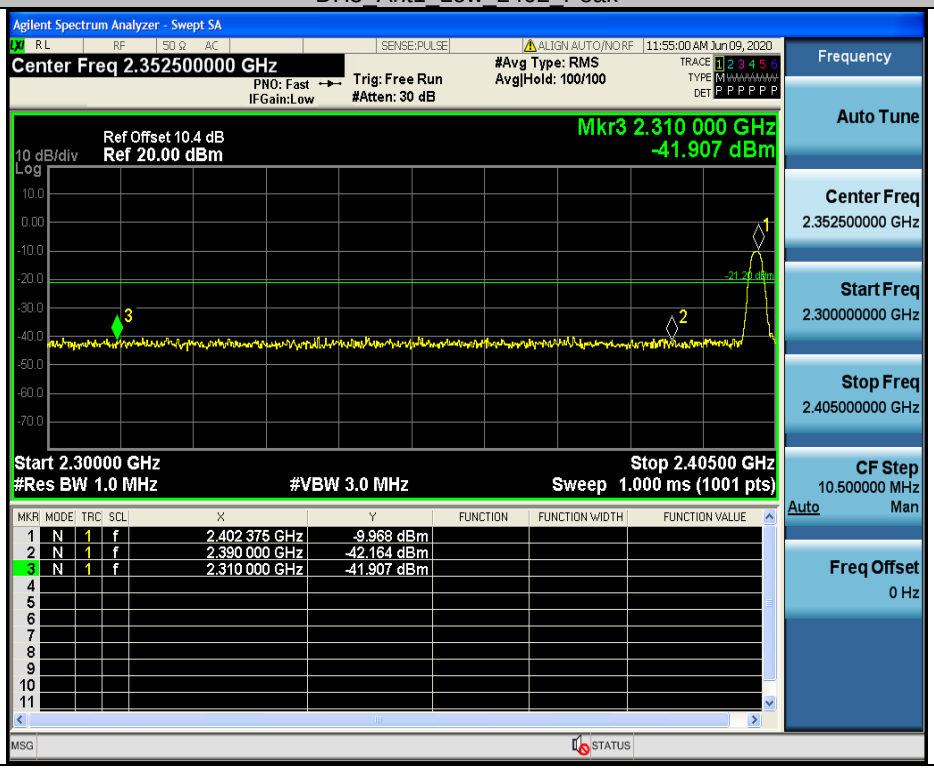
TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.64	<=-41.20	PASS
				AV	2390.000	-49.44	<=-41.20	PASS
				Peak	2310.000	-41.91	<=-21.20	PASS
				Peak	2390.000	-42.16	<=-21.20	PASS
		High	2480	AV	2483.500	-48.93	<=-41.20	PASS
				AV	2500.000	-48.84	<=-41.20	PASS
				Peak	2483.500	-41.51	<=-21.20	PASS
				Peak	2500.000	-42.37	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.83	<=-41.20	PASS
				AV	2390.000	-49.43	<=-41.20	PASS
				Peak	2310.000	-41.95	<=-21.20	PASS
				Peak	2390.000	-43.31	<=-21.20	PASS
		High	2480	AV	2483.500	-48.00	<=-41.20	PASS
				AV	2500.000	-48.81	<=-41.20	PASS
				Peak	2483.500	-40.58	<=-21.20	PASS
				Peak	2500.000	-43.26	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.94	<=-41.20	PASS
				AV	2390.000	-49.61	<=-41.20	PASS
				Peak	2310.000	-42.66	<=-21.20	PASS
				Peak	2390.000	-40.82	<=-21.20	PASS
		High	2480	AV	2483.500	-48.10	<=-41.20	PASS
				AV	2500.000	-48.85	<=-41.20	PASS
				Peak	2483.500	-40.64	<=-21.20	PASS
				Peak	2500.000	-42.99	<=-21.20	PASS

Test Graphs

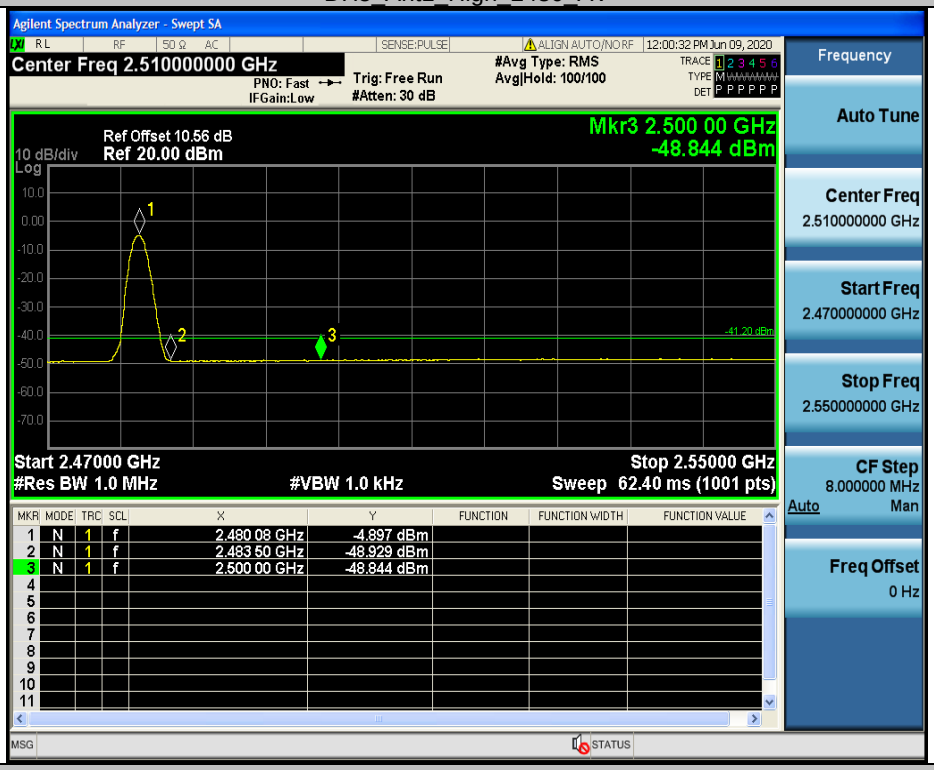
DH5_Ant1_Low_2402_AV



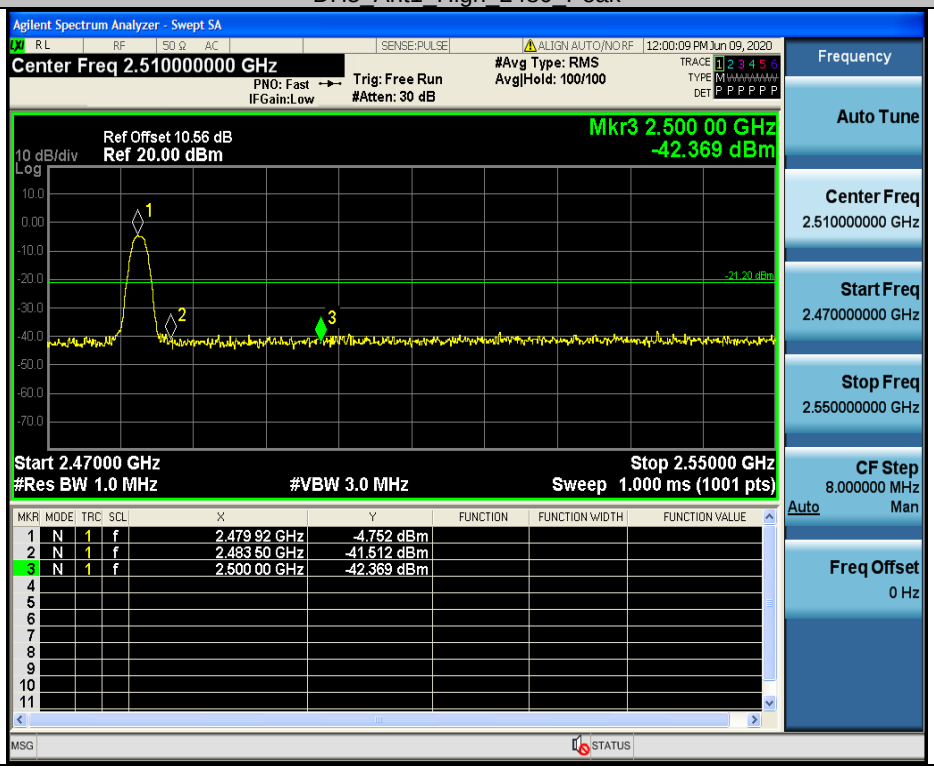
DH5_Ant1_Low_2402_Peak



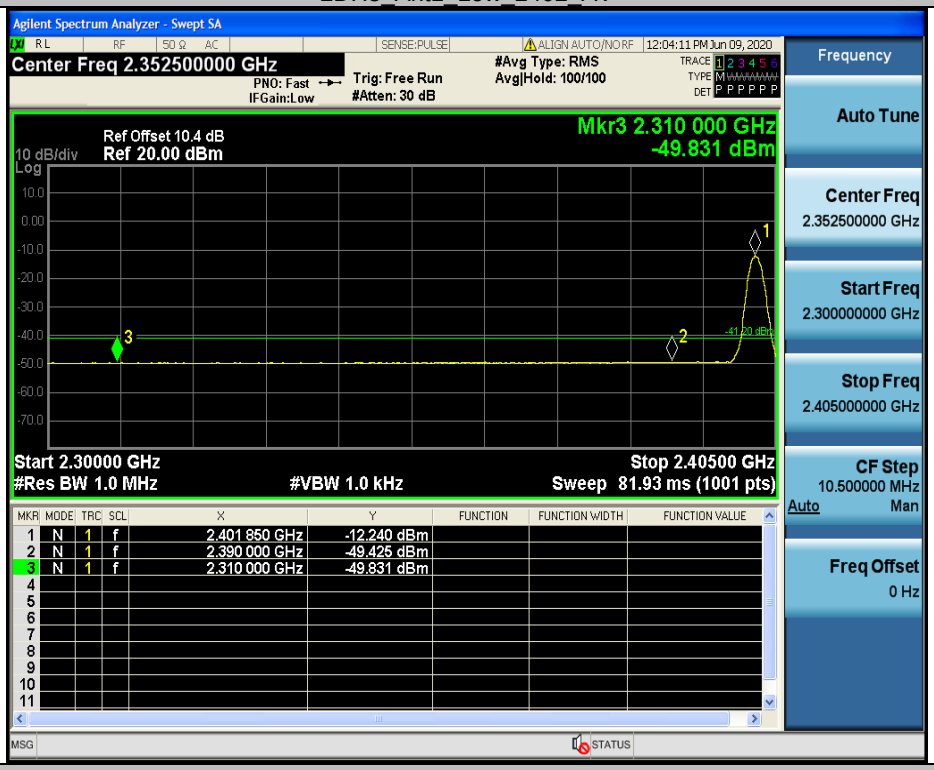
DH5_Ant1_High_2480_AV



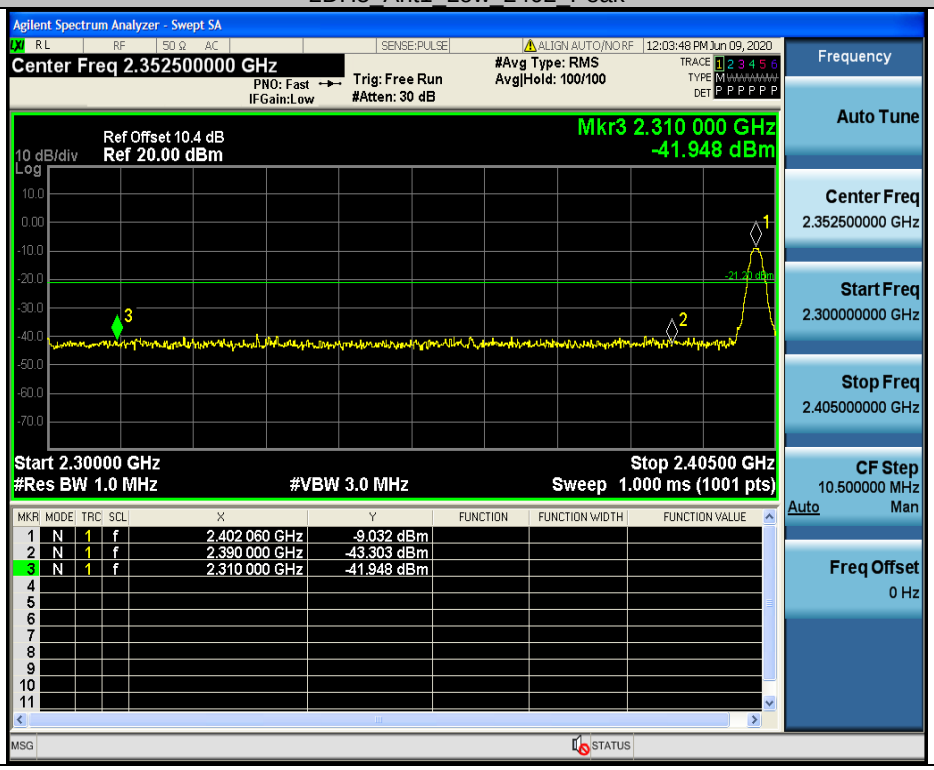
DH5_Ant1_High_2480_Peak



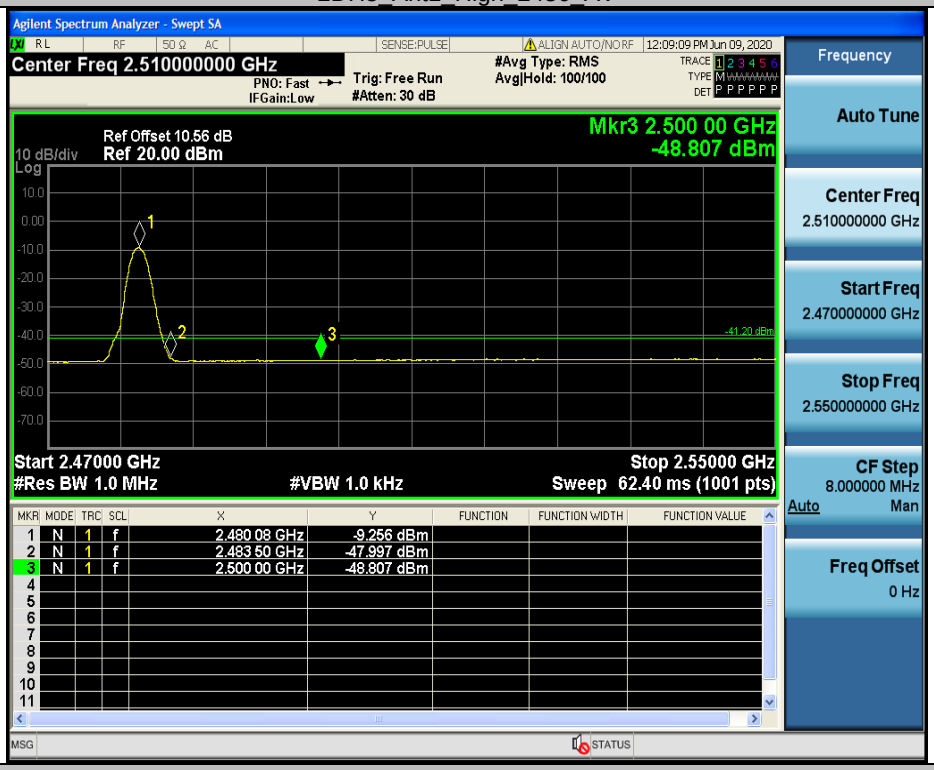
2DH5_Ant1_Low_2402_AV



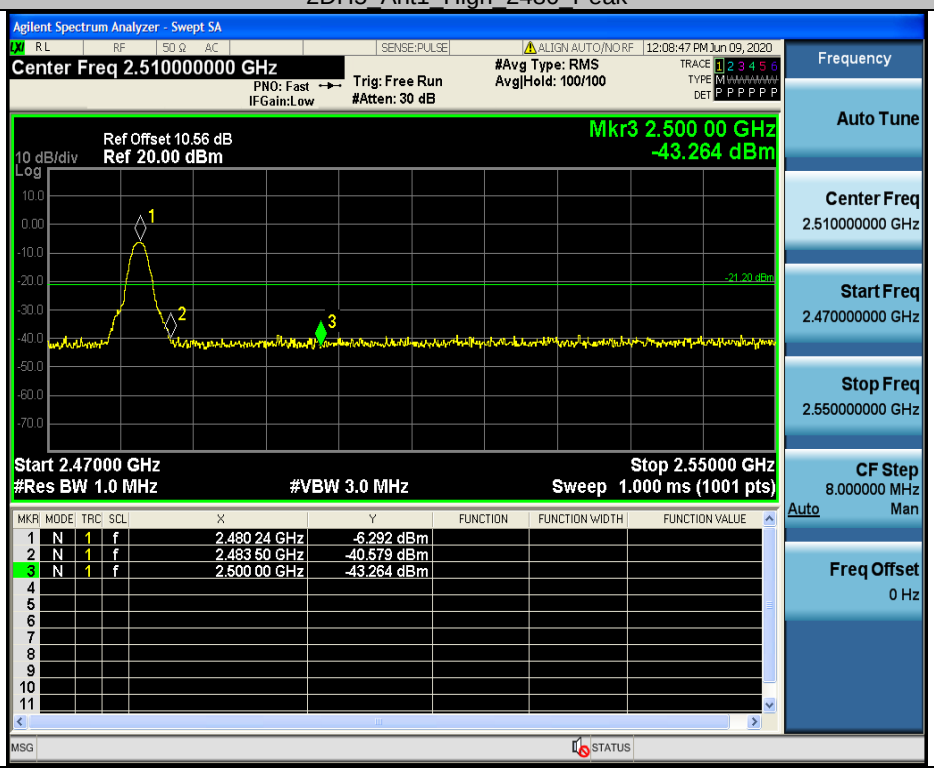
2DH5_Ant1_Low_2402_Peak



2DH5_Ant1_High_2480_AV



2DH5_Ant1_High_2480_Peak



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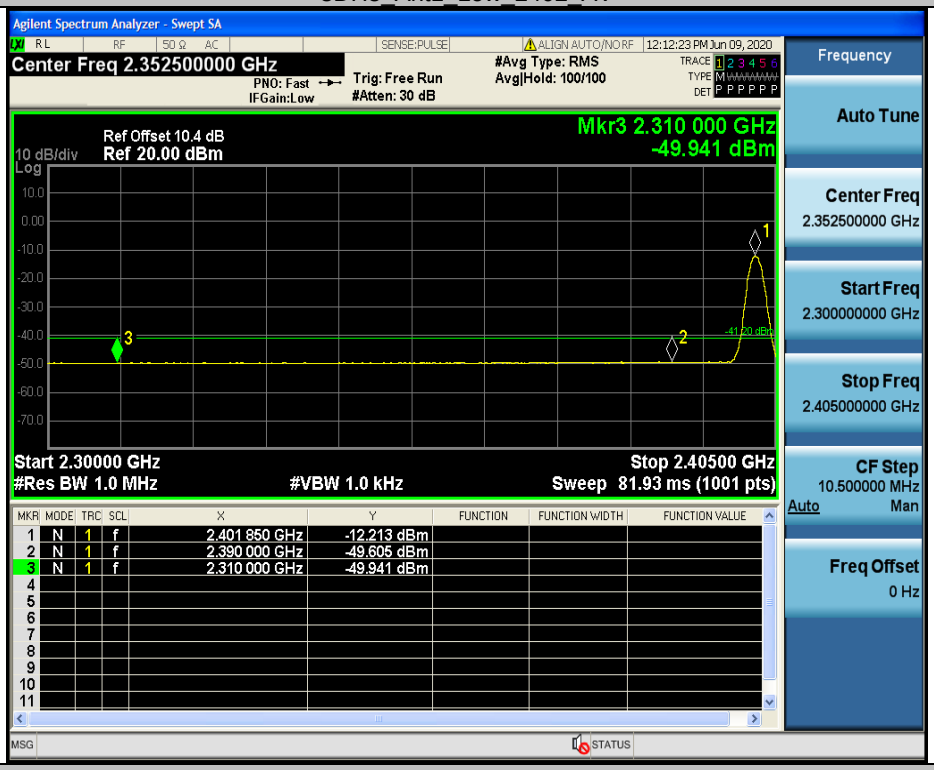

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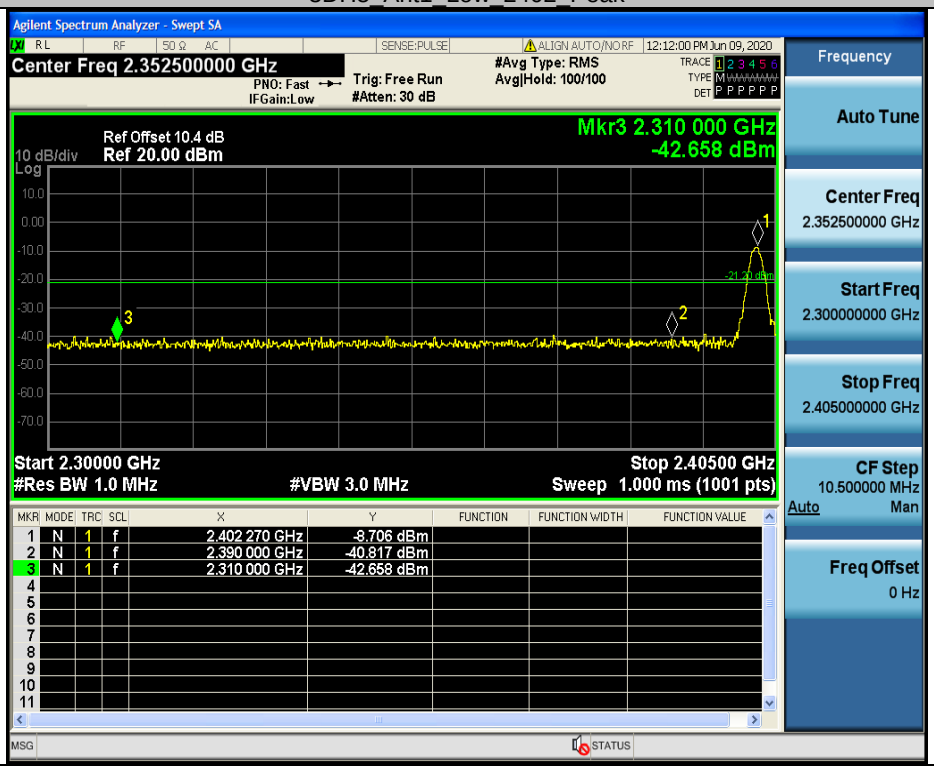
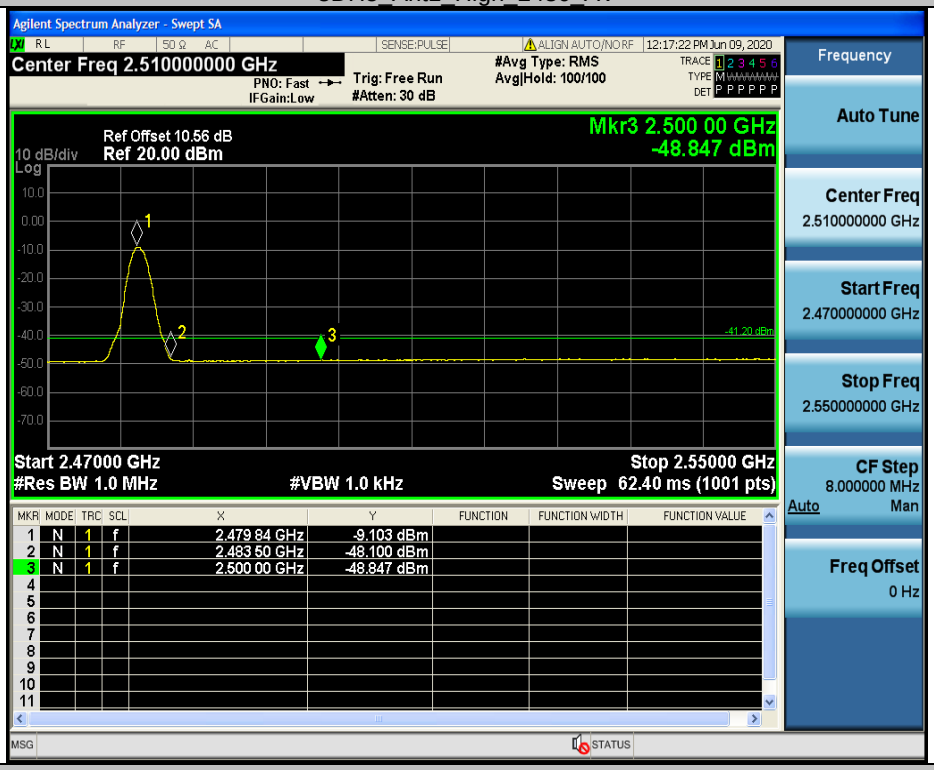


3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak