Appendix A
RF Test Data for BT(BDR/EDR) (Conducted Measurement)
Product Name: TRUE WIRELESS STEREO EARPHONES
Trade Mark: N/A
Test Model: F12
FCC ID: 2AYQC-F12

Environmental Conditions

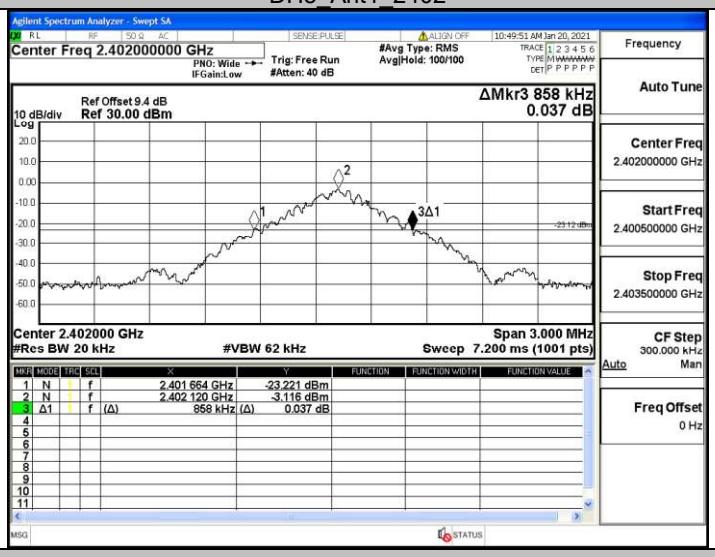
Temperature:	22.8° C
Relative Humidity:	56%
ATM Pressure:	100.0 kPa
Test Engineer:	Nancy Li
Supervised by:	Hugo Chen

A.1 20 dB Bandwidth

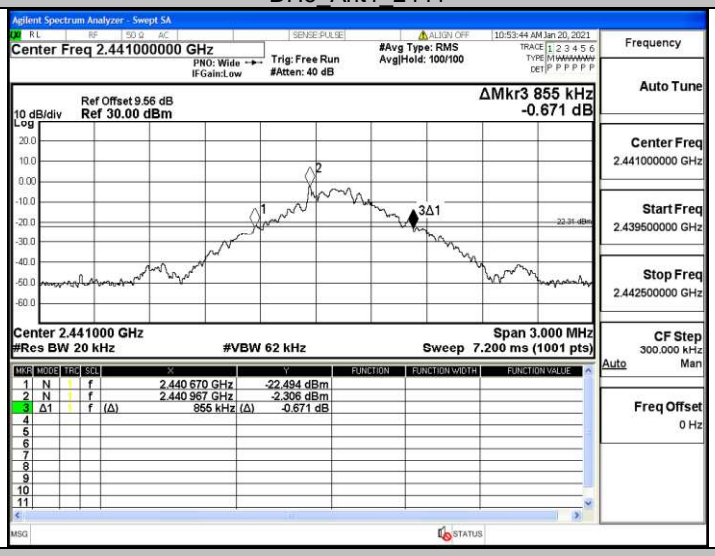
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.858	2401.664	2402.522	---	PASS
		2441	0.855	2440.670	2441.525	---	PASS
		2480	0.858	2479.670	2480.528	---	PASS
2DH5	Ant1	2402	1.209	2401.517	2402.726	---	PASS
		2441	1.200	2440.520	2441.720	---	PASS
		2480	1.311	2479.469	2480.780	---	PASS
3DH5	Ant1	2402	1.245	2401.481	2402.726	---	PASS
		2441	1.233	2440.493	2441.726	---	PASS
		2480	1.236	2479.487	2480.723	---	PASS

Test Graph

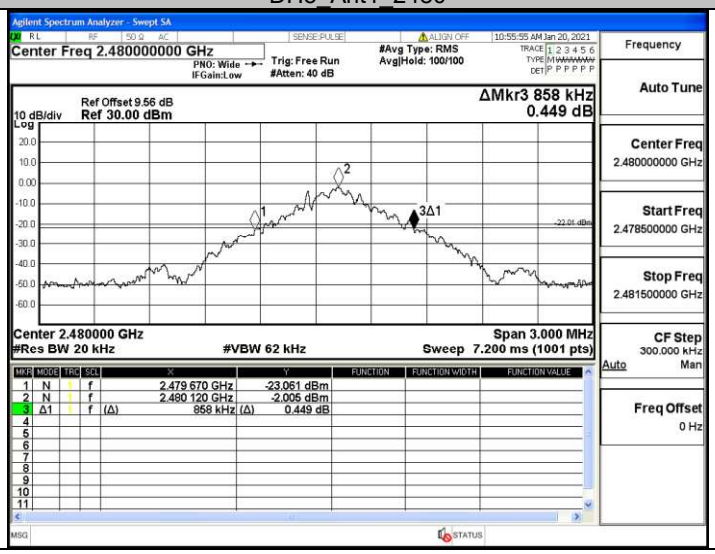
DH5_Ant1_2402



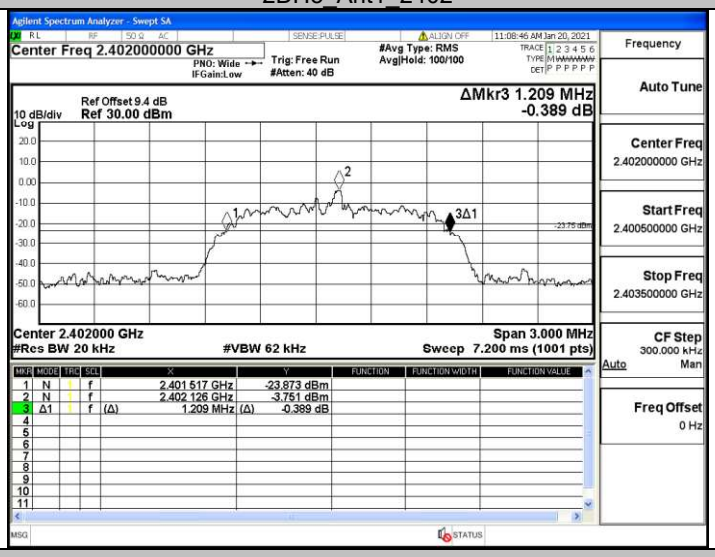
DH5_Ant1_2441



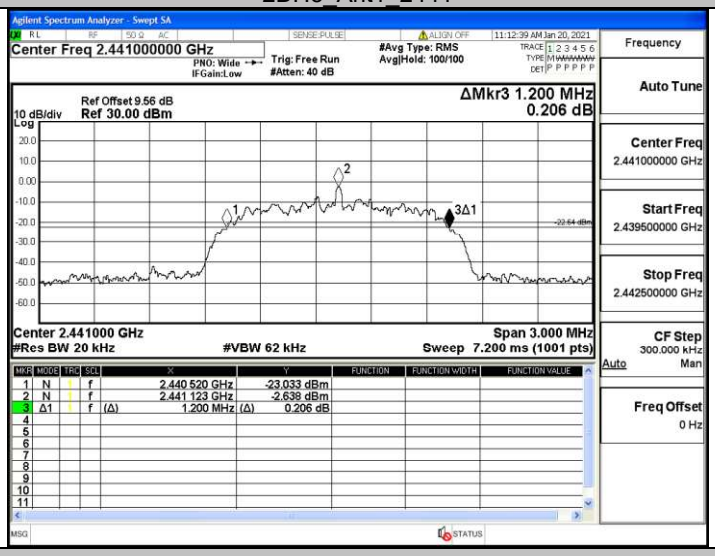
DH5_Ant1_2480



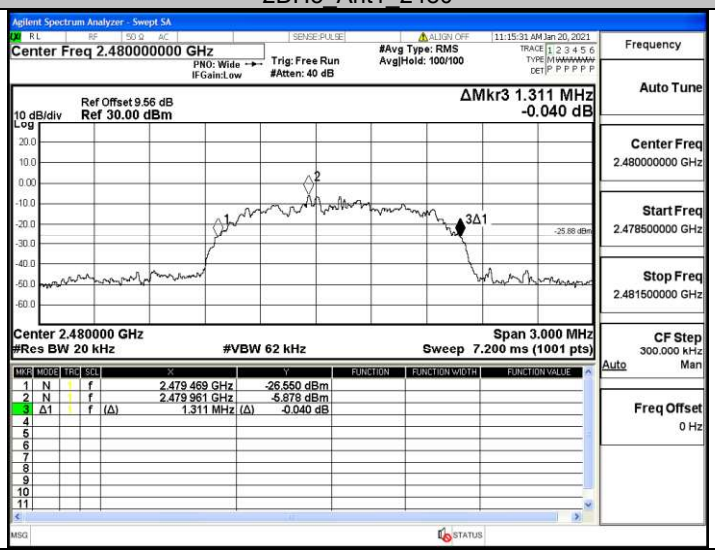
2DH5_Ant1_2402



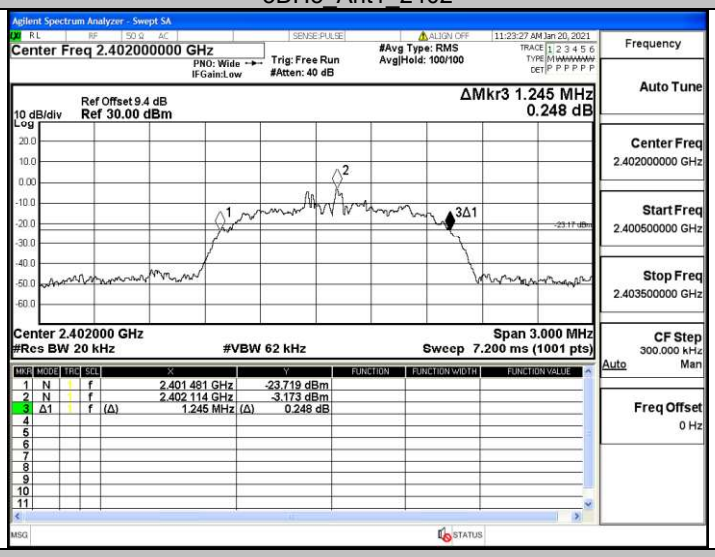
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



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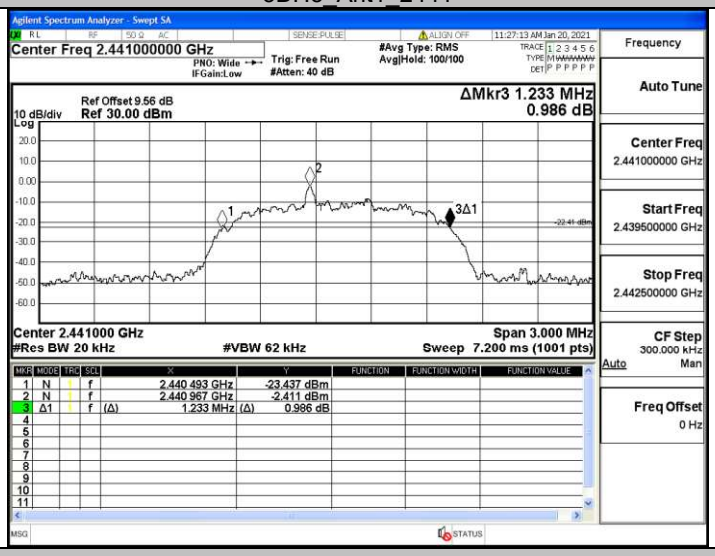
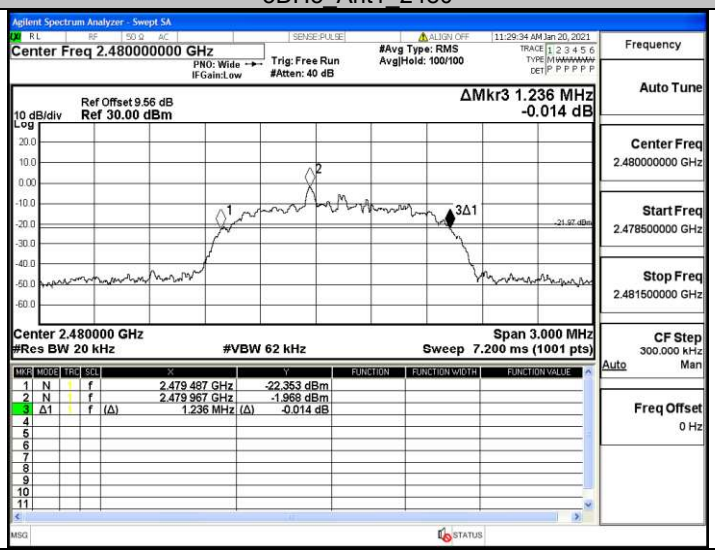


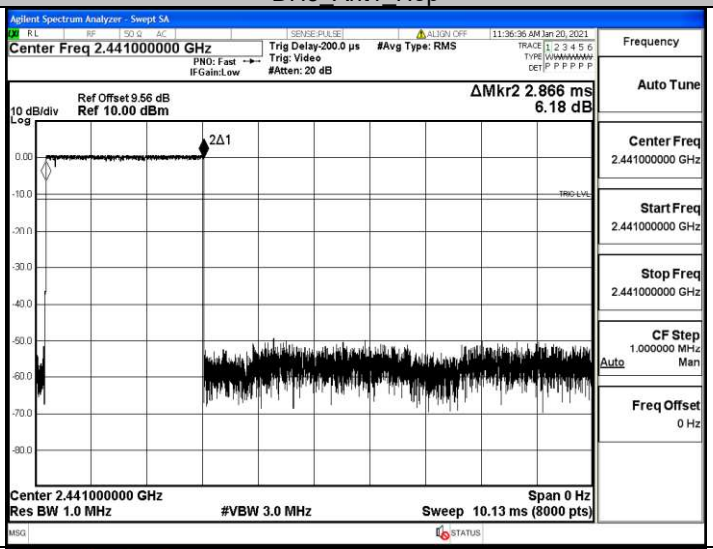
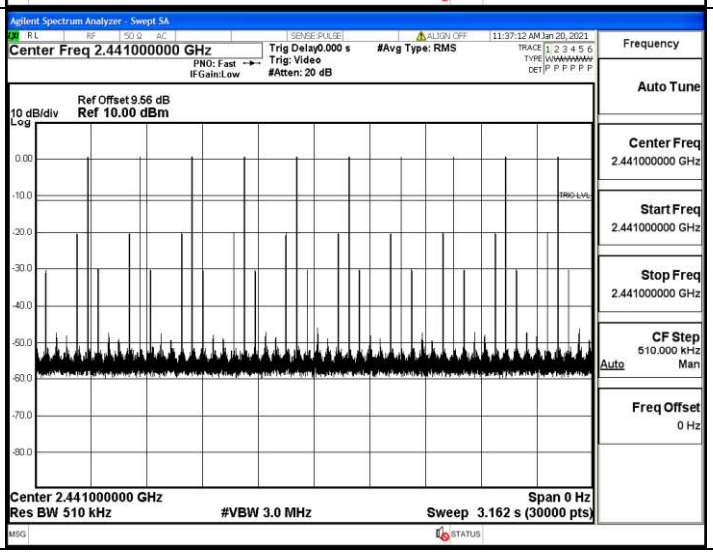
3DH5_Ant1_2480

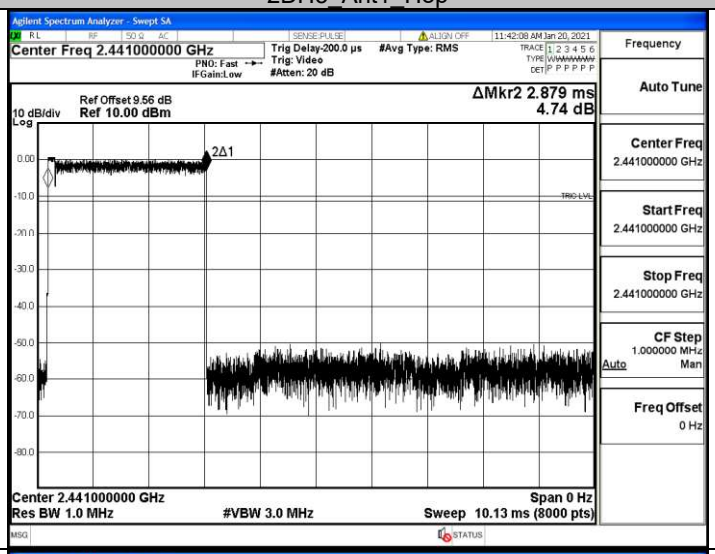
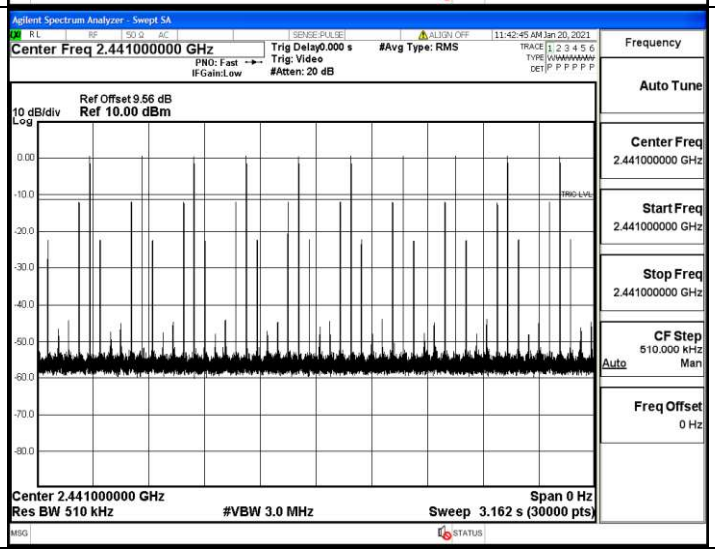


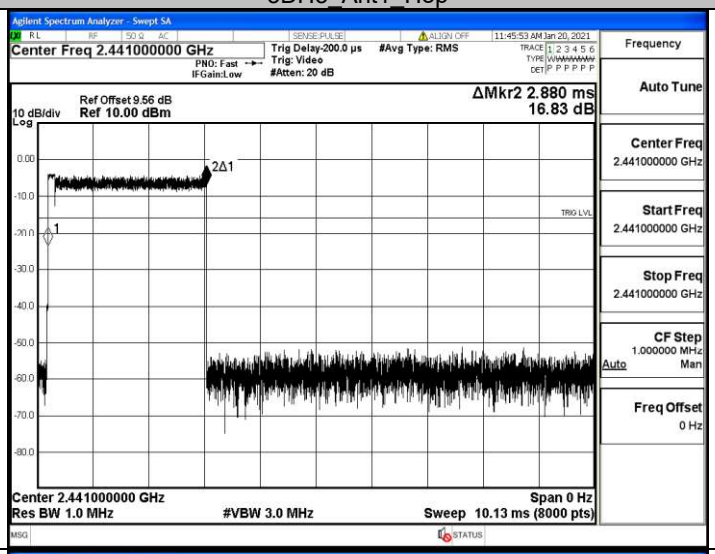
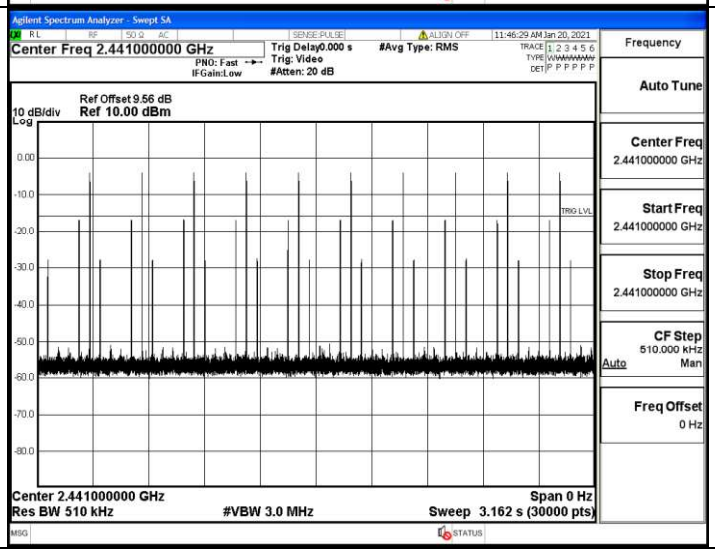
A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.87	110	0.315	<=0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	<=0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	<=0.4	PASS

Test Graph

DH5_Ant1_Hop



2DH5_Ant1_Hop		
		
		

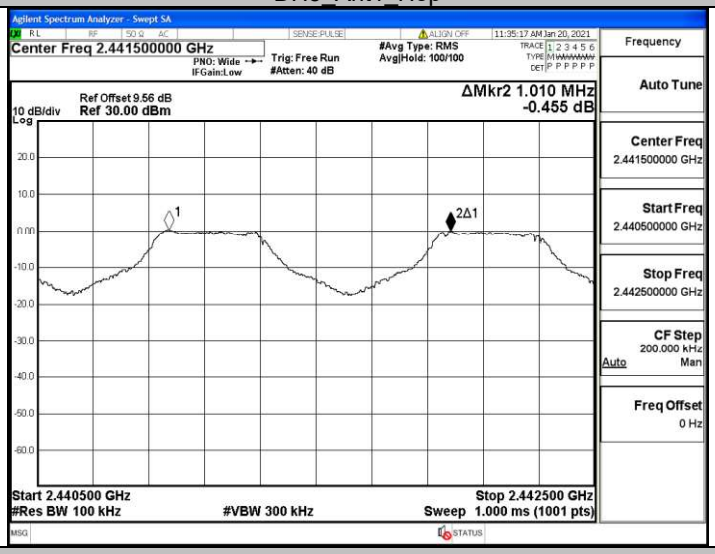
3DH5_Ant1_Hop		
		
		

A.3 Carrier Frequency Separation

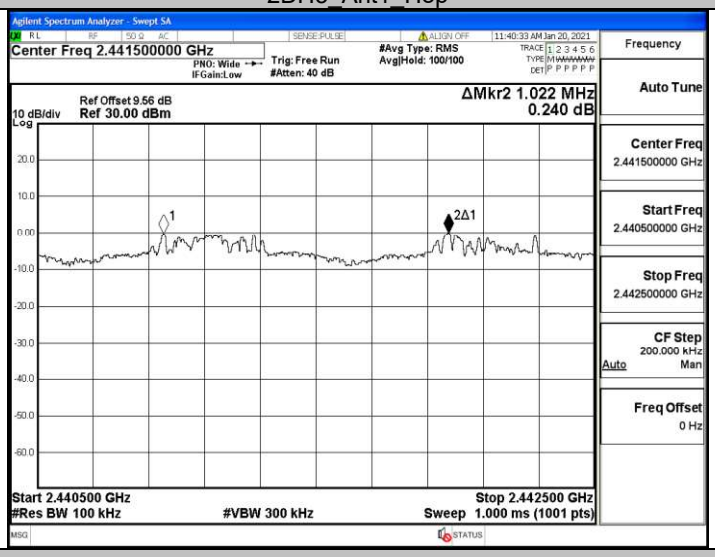
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.010	>=0.858	PASS
2DH5	Ant1	Hop	1.022	>=0.874	PASS
3DH5	Ant1	Hop	1.000	>=0.830	PASS

Test Graph

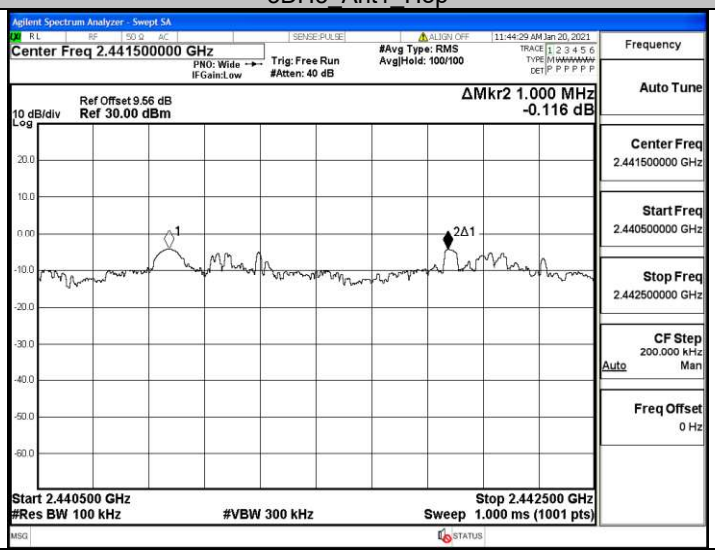
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

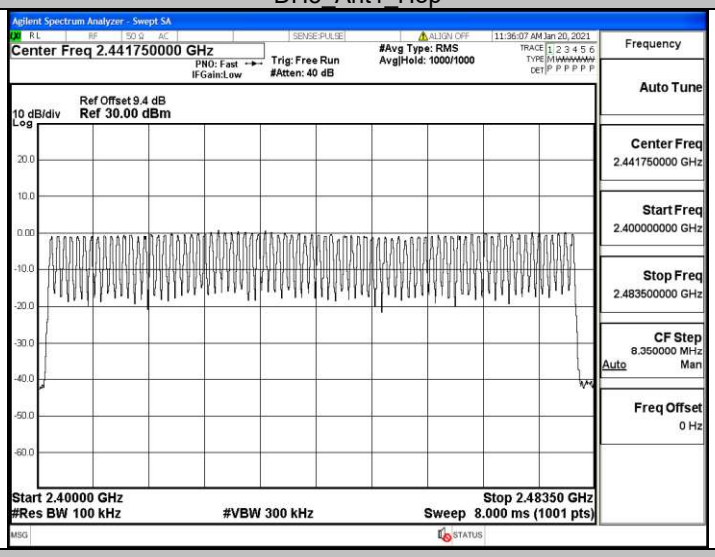


A.4 Hopping Channel Number

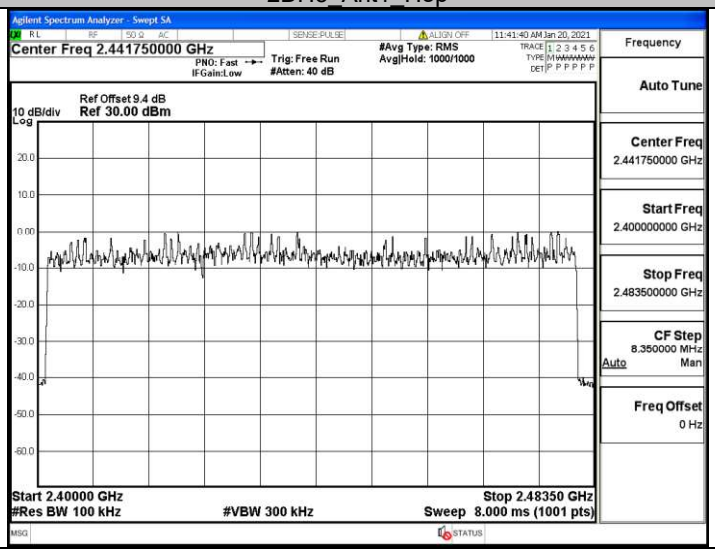
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS
3DH5	Ant1	Hop	79	>=15	PASS

Test Graph

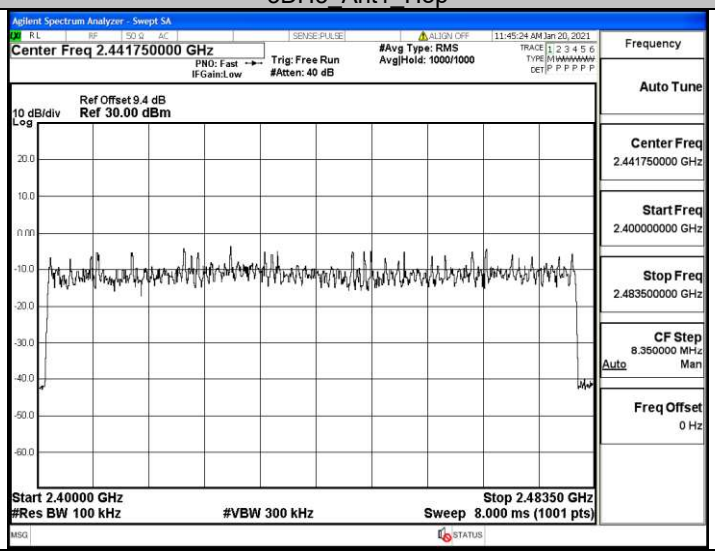
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

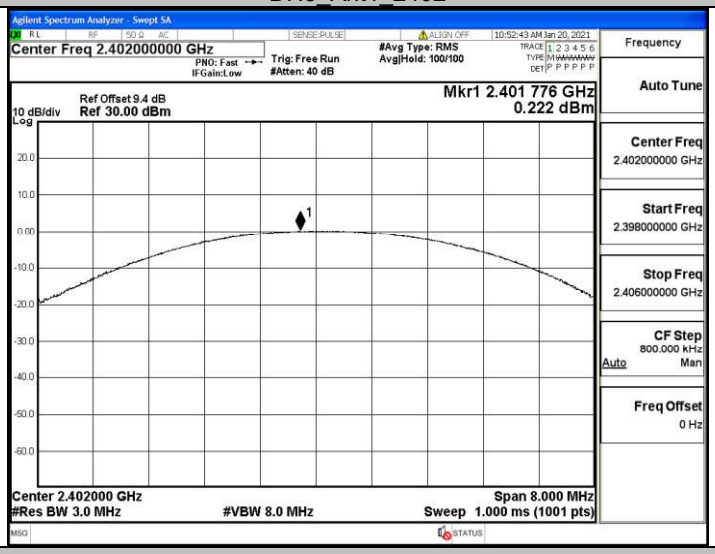


A.5 Conducted Peak Output Power

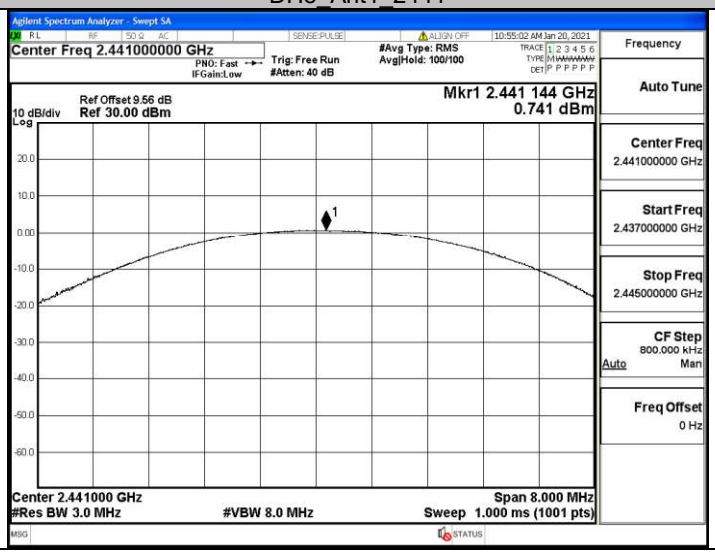
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.22	<=20.97	PASS
		2441	0.74	<=20.97	PASS
		2480	1.14	<=20.97	PASS
2DH5	Ant1	2402	0.2	<=20.97	PASS
		2441	0.77	<=20.97	PASS
		2480	1.07	<=20.97	PASS
3DH5	Ant1	2402	0.31	<=20.97	PASS
		2441	0.73	<=20.97	PASS
		2480	1.07	<=20.97	PASS

Test Graph

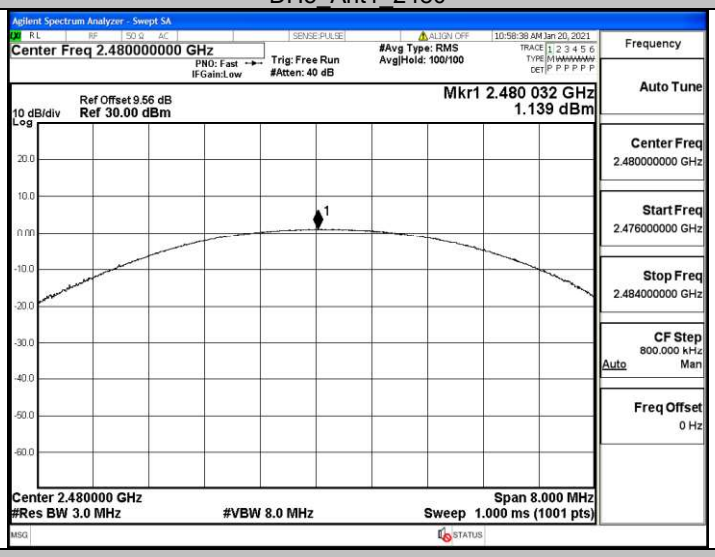
DH5_Ant1_2402



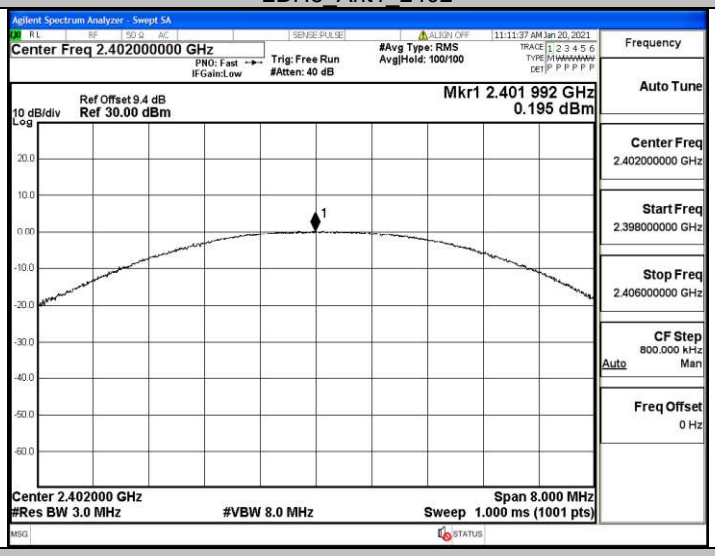
DH5_Ant1_2441



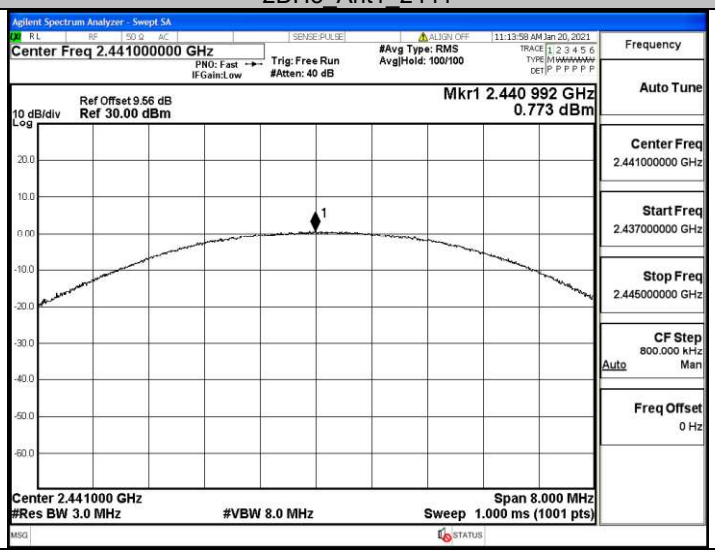
DH5_Ant1_2480



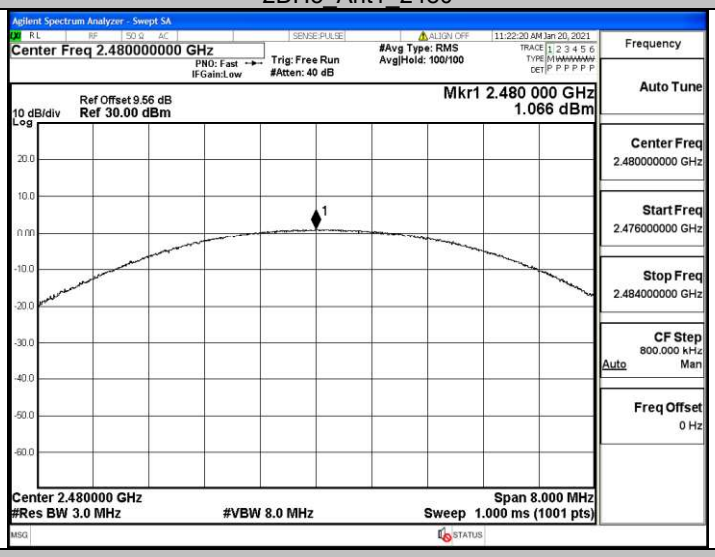
2DH5_Ant1_2402



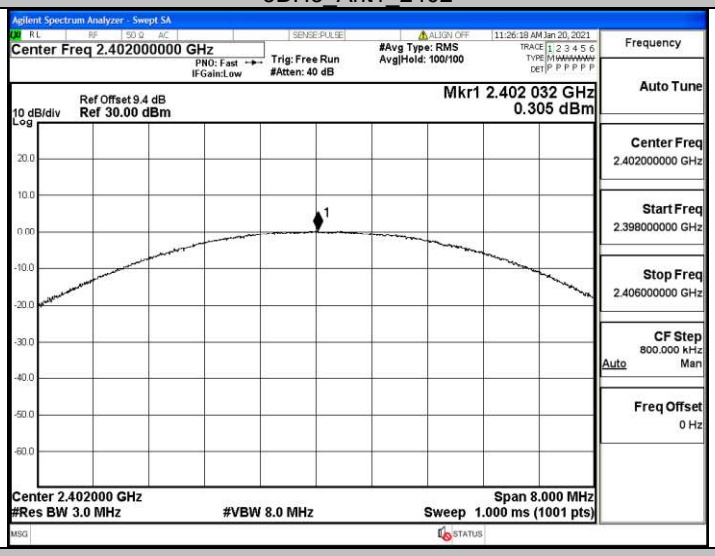
2DH5_Ant1_2441



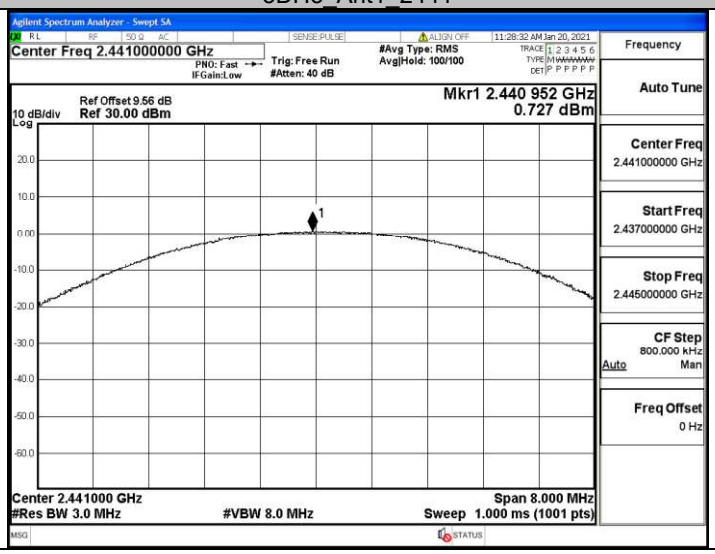
2DH5_Ant1_2480



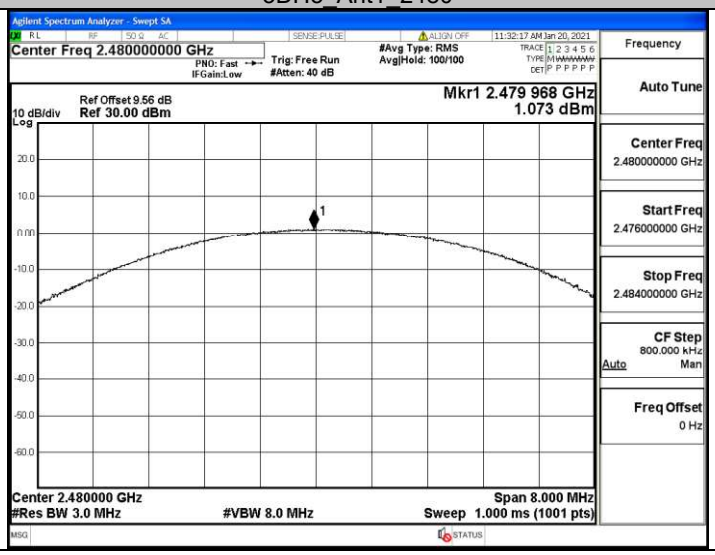
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

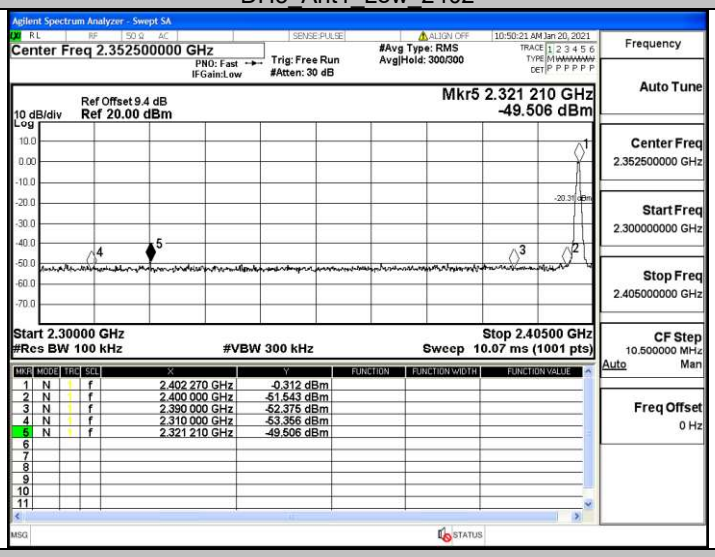


A.6 Band-edge for RF Conducted Emissions

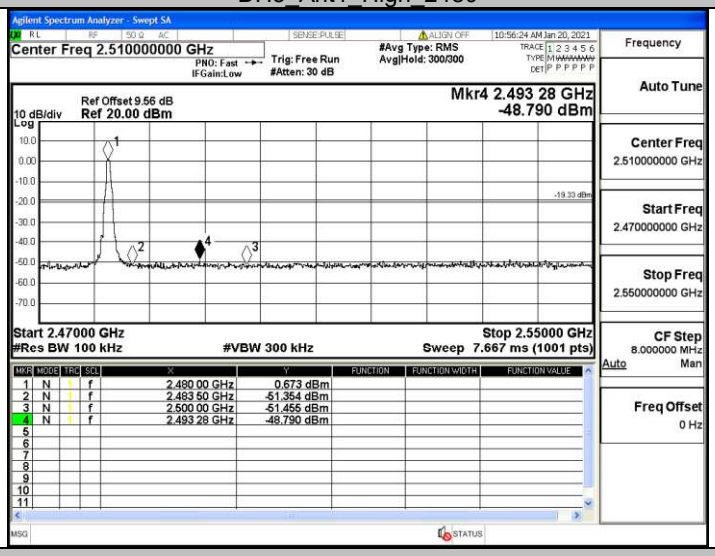
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.31	-49.51	<=-20.31	PASS
		High	2480	0.67	-48.79	<=-19.33	PASS
		Low	Hop_2402	-0.90	-50.35	<=-20.9	PASS
		High	Hop_2480	0.65	-49.23	<=-19.35	PASS
2DH5	Ant1	Low	2402	-0.19	-50.06	<=-20.18	PASS
		High	2480	-0.31	-48.87	<=-20.31	PASS
		Low	Hop_2402	-2.58	-50.33	<=-22.58	PASS
		High	Hop_2480	0.26	-48.98	<=-19.74	PASS
3DH5	Ant1	Low	2402	-0.15	-49.03	<=-20.15	PASS
		High	2480	0.32	-49.17	<=-19.68	PASS
		Low	Hop_2402	-6.82	-49.81	<=-26.82	PASS
		High	Hop_2480	-4.51	-48.29	<=-24.51	PASS

Test Graph

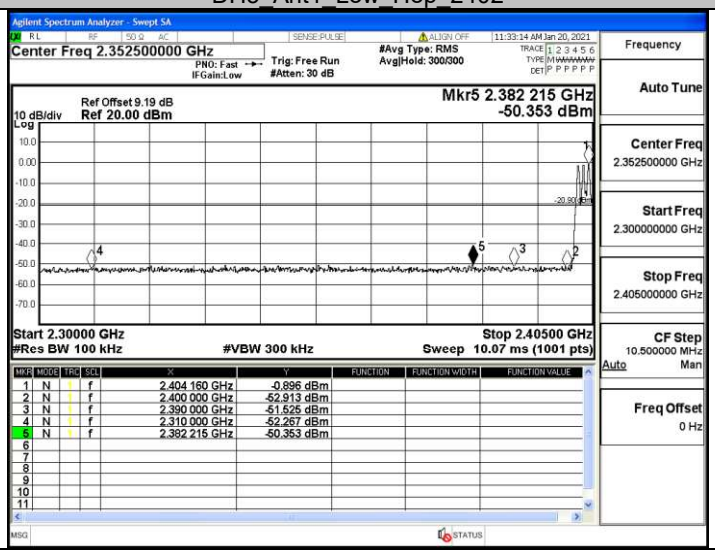
DH5_Ant1_Low_2402



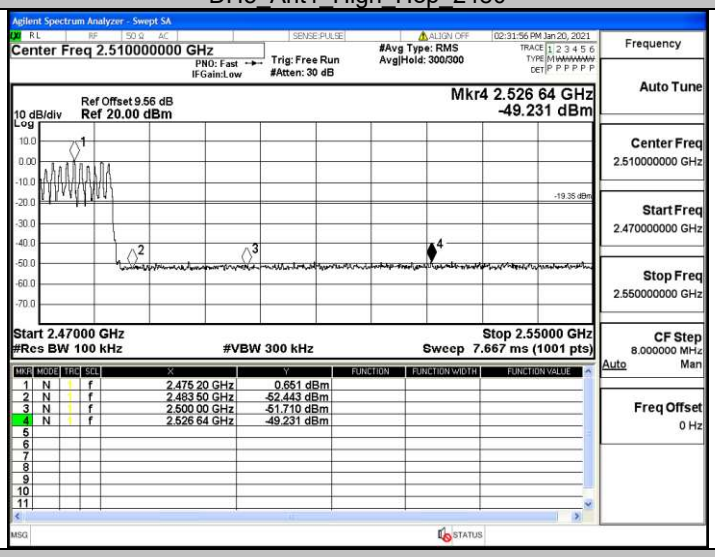
DH5_Ant1_High_2480



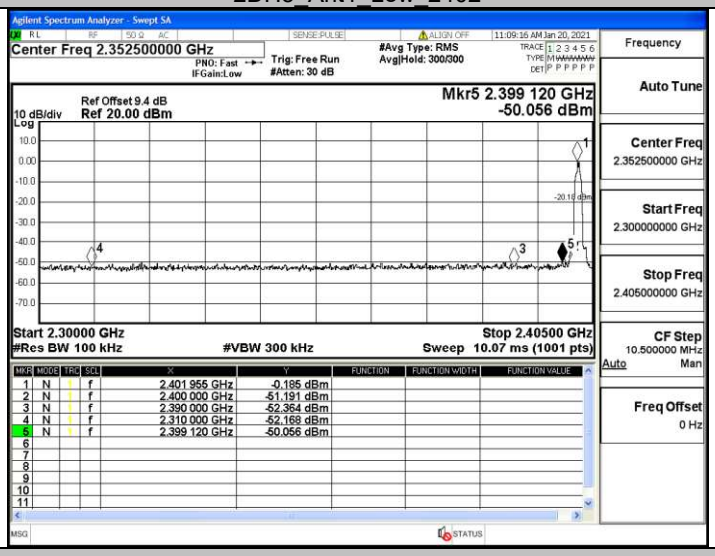
DH5_Ant1_Low_Hop_2402



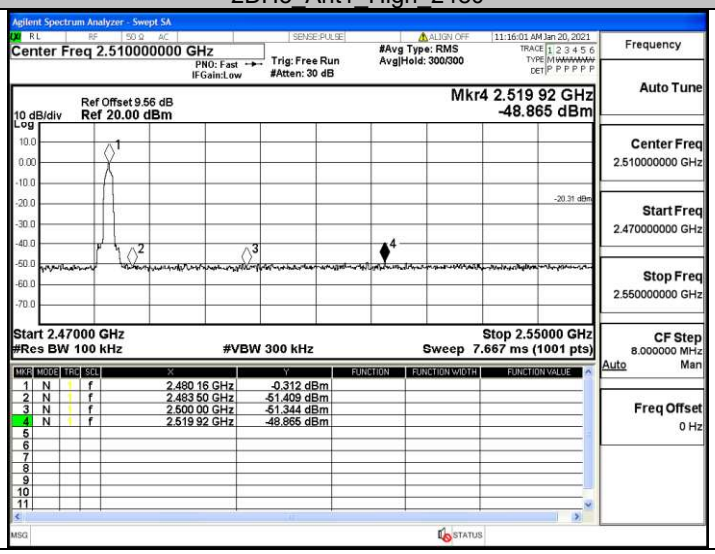
DH5_Ant1_High_Hop_2480



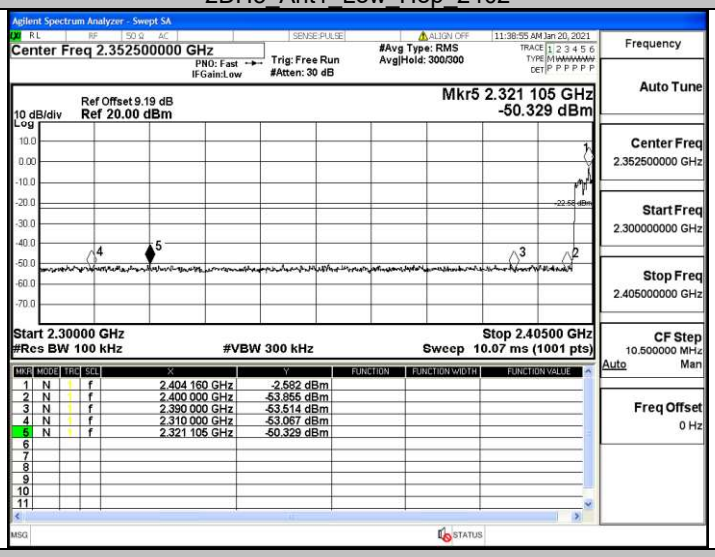
2DH5_Ant1_Low_2402



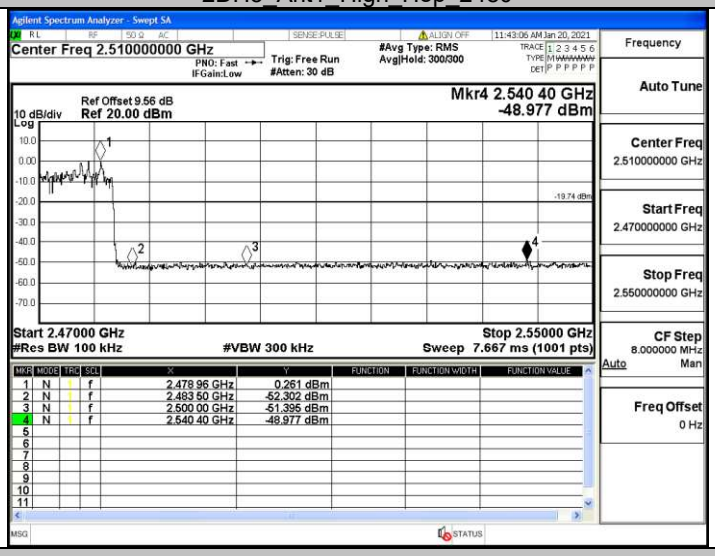
2DH5_Ant1_High_2480



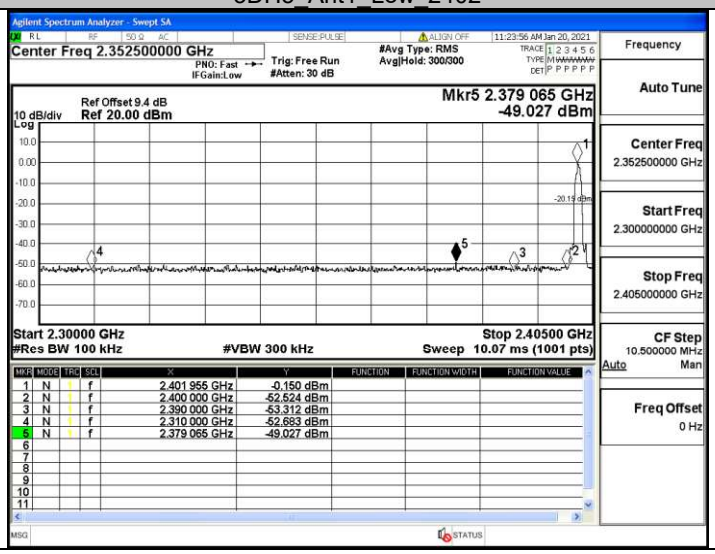
2DH5_Ant1_Low_Hop_2402



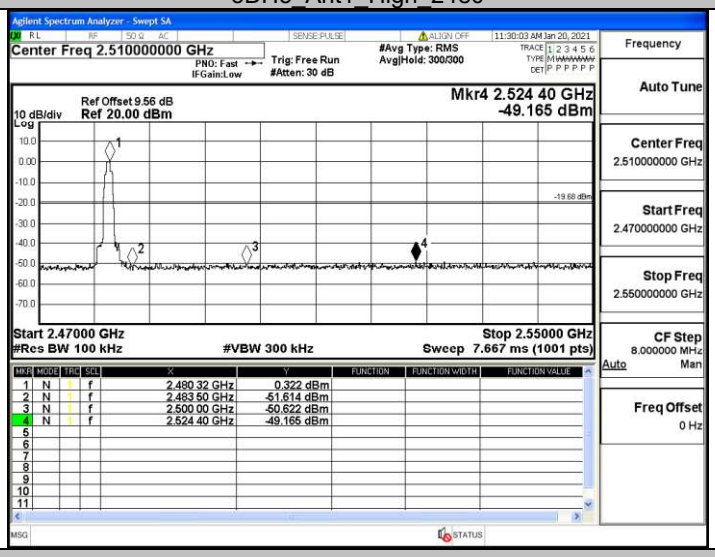
2DH5_Ant1_High_Hop_2480



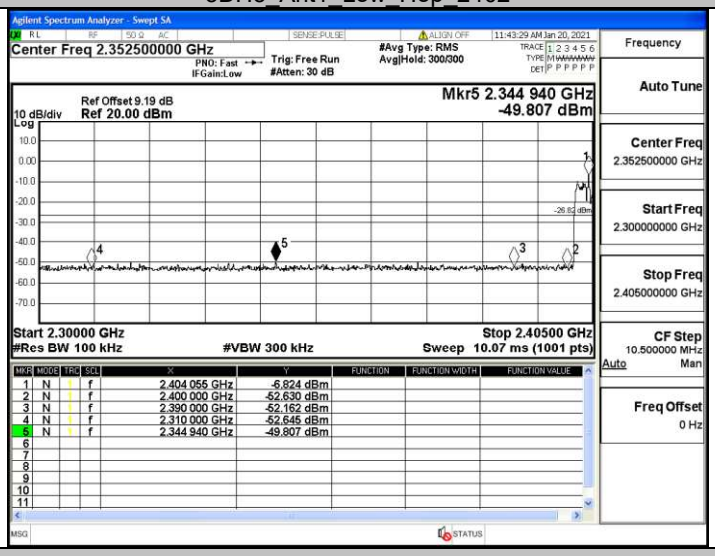
3DH5_Ant1_Low_2402



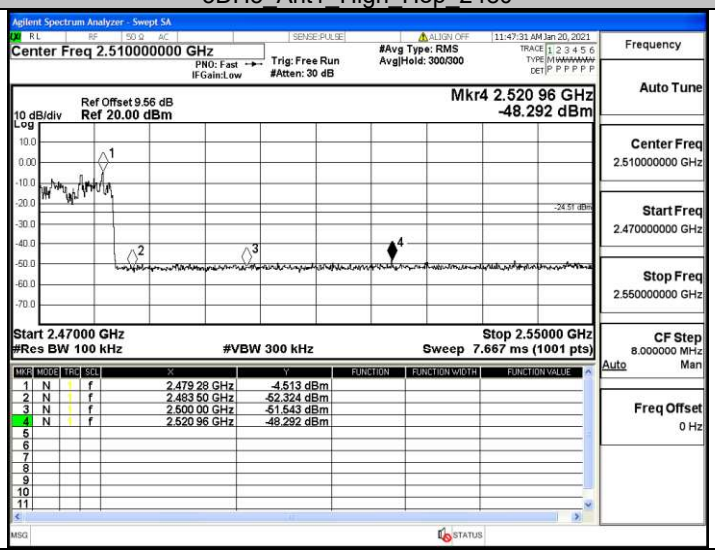
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



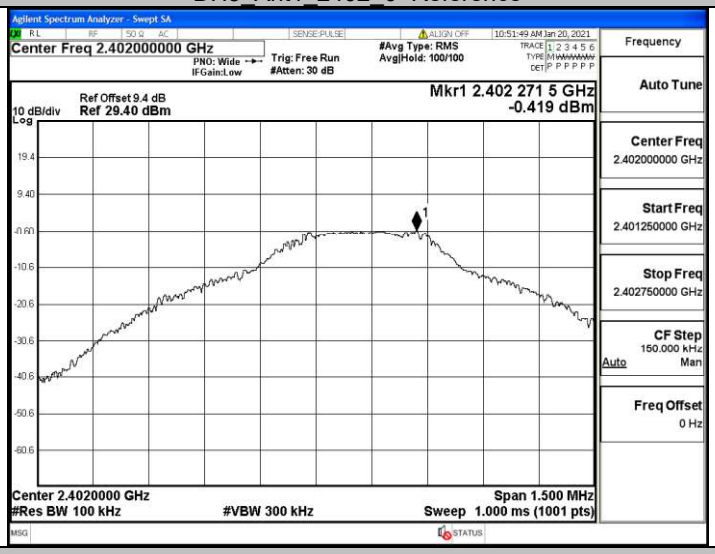
3DH5_Ant1_High_Hop_2480



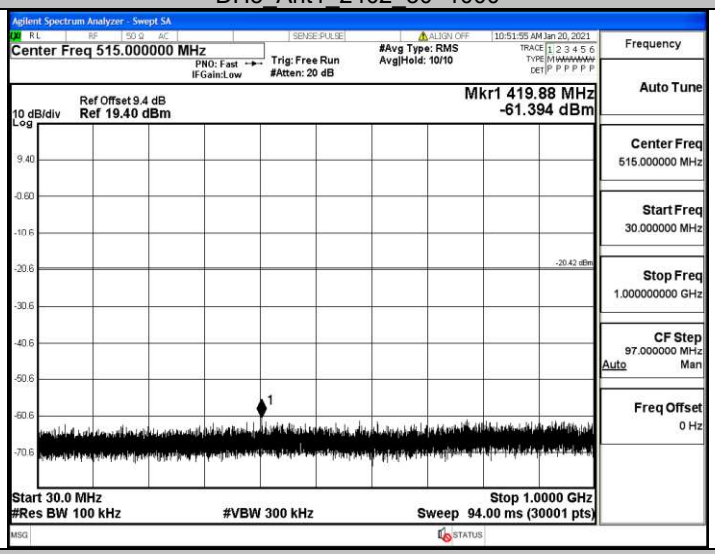
A.7 RF Conducted Spurious Emissions

Test Graph

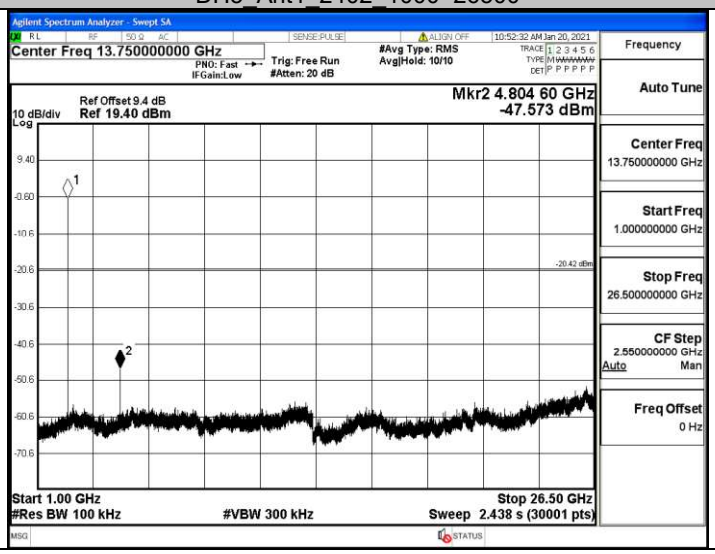
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500



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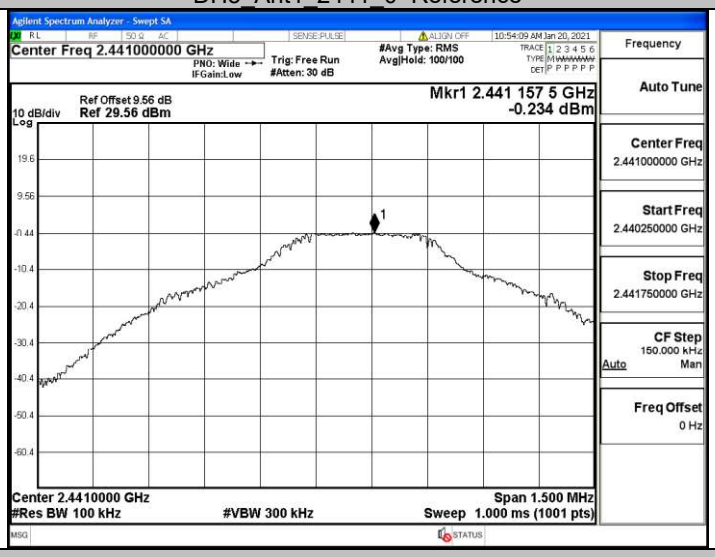

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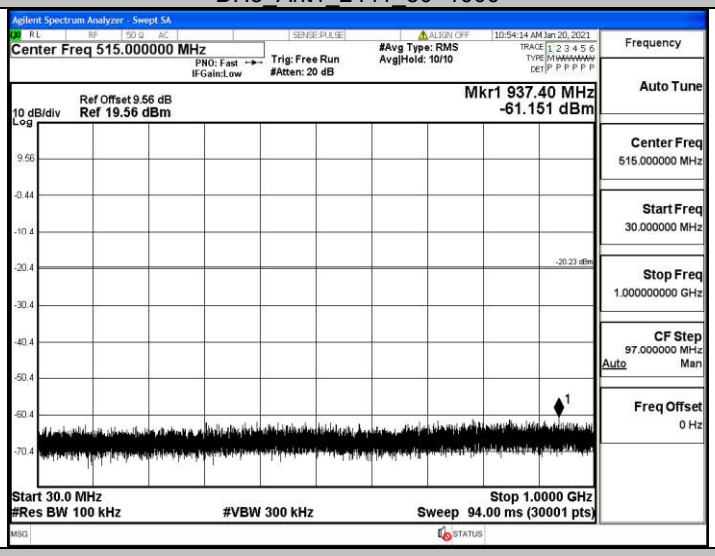

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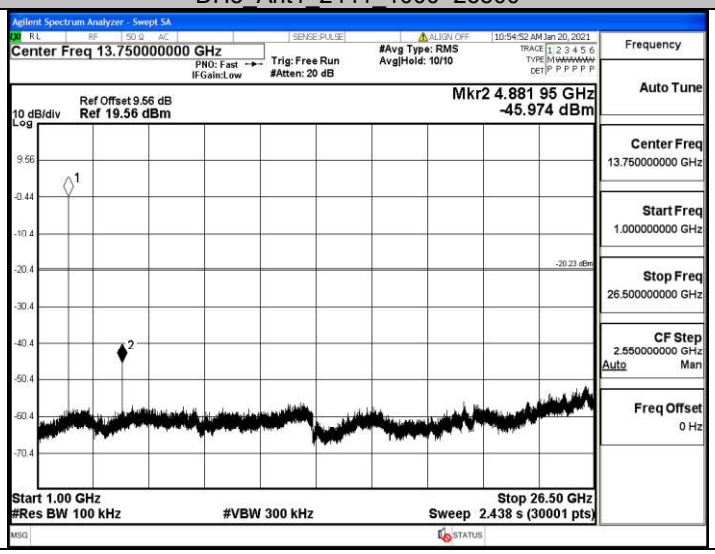

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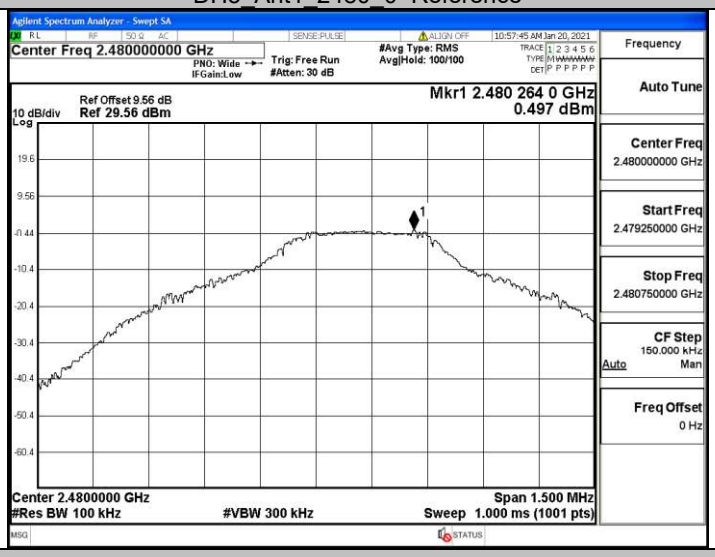

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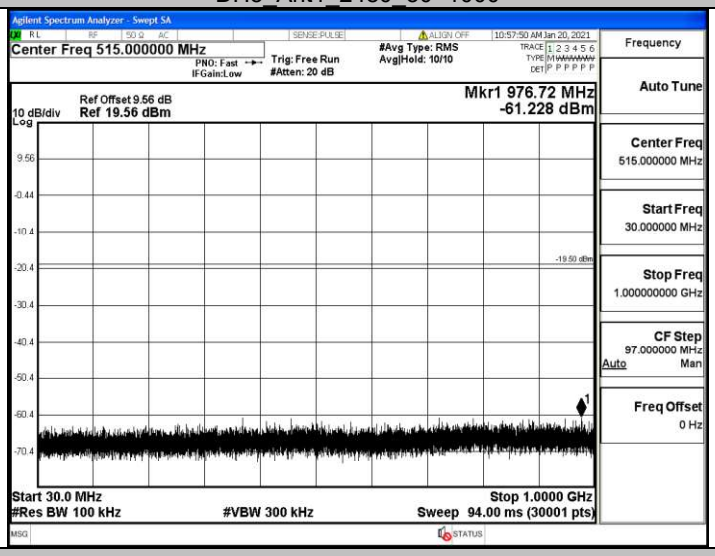

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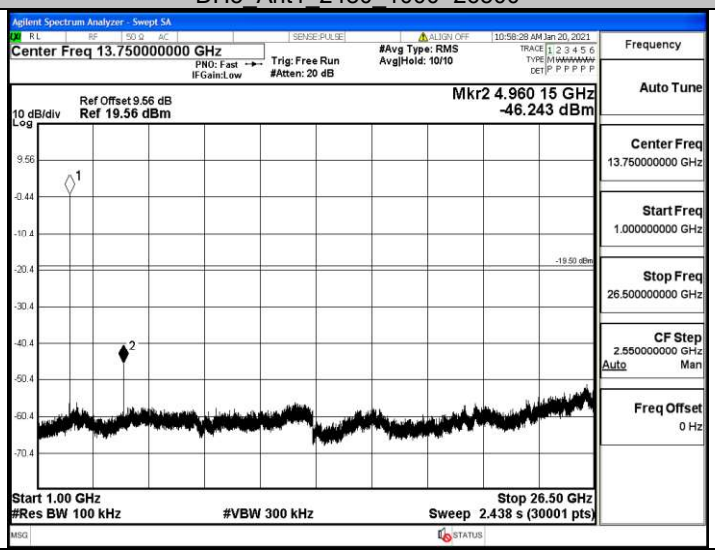

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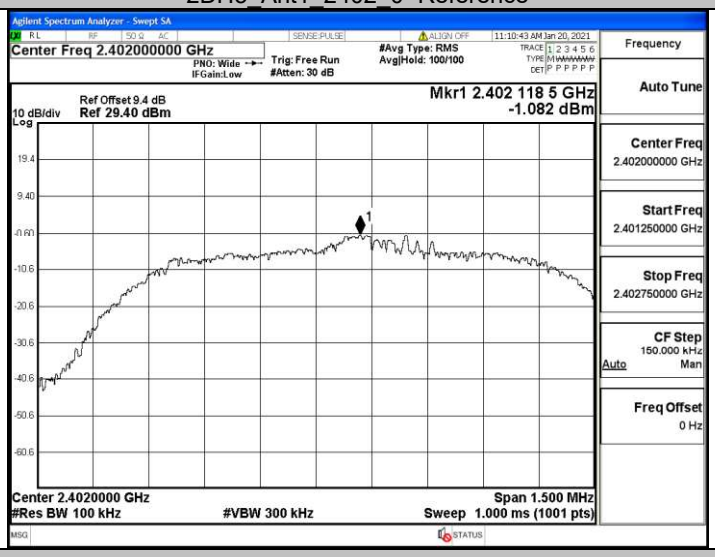

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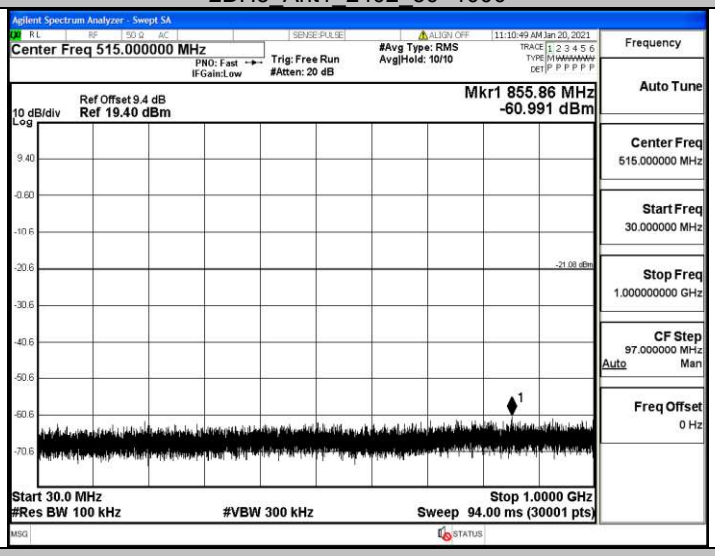

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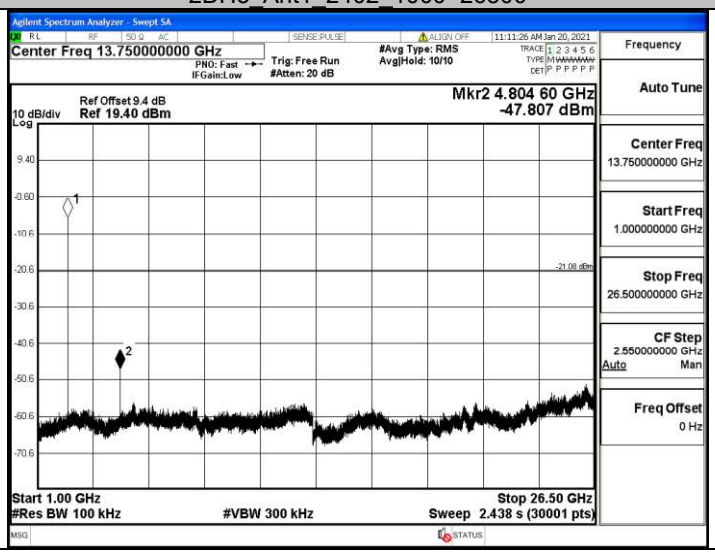

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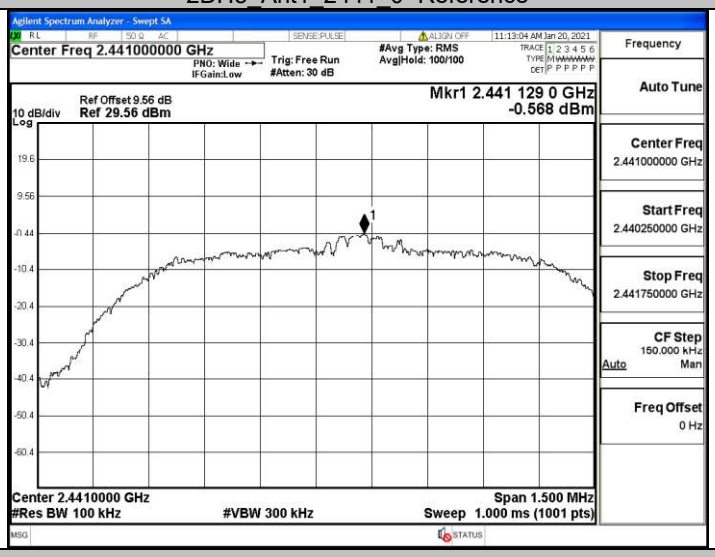

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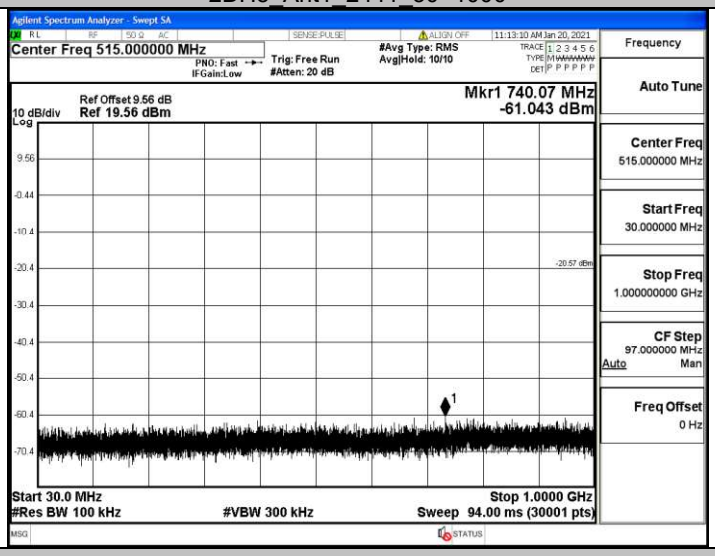

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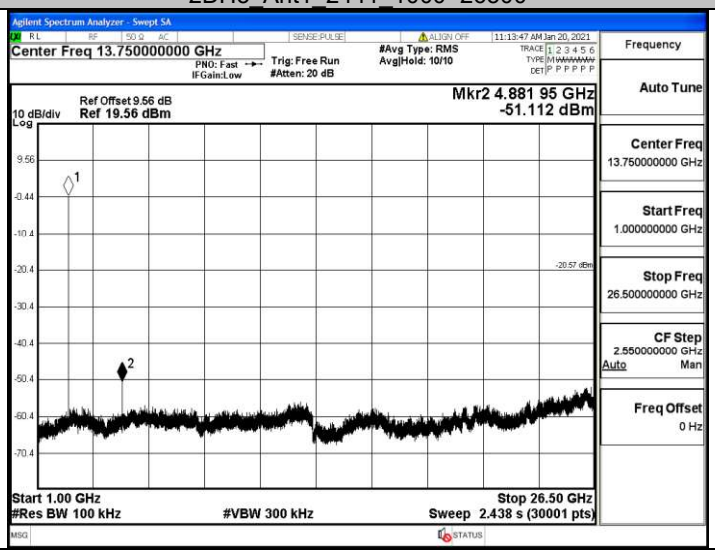

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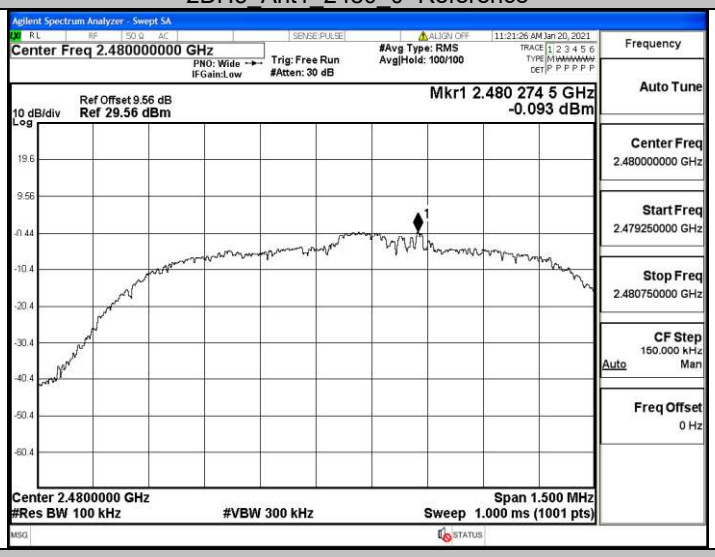

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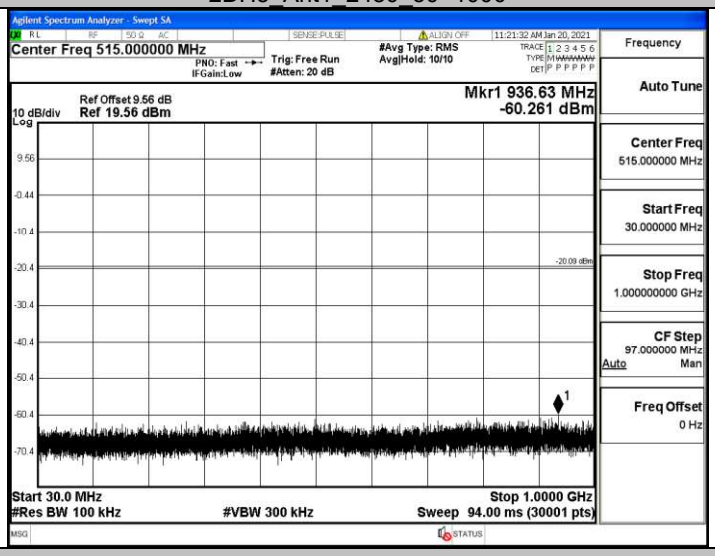

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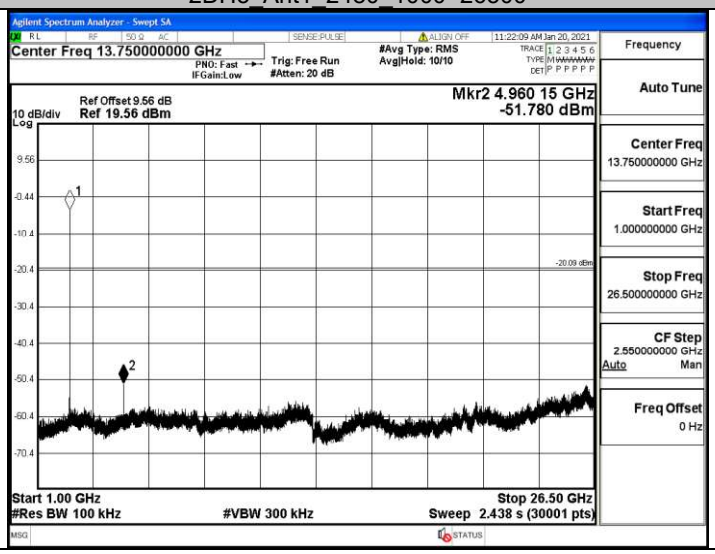

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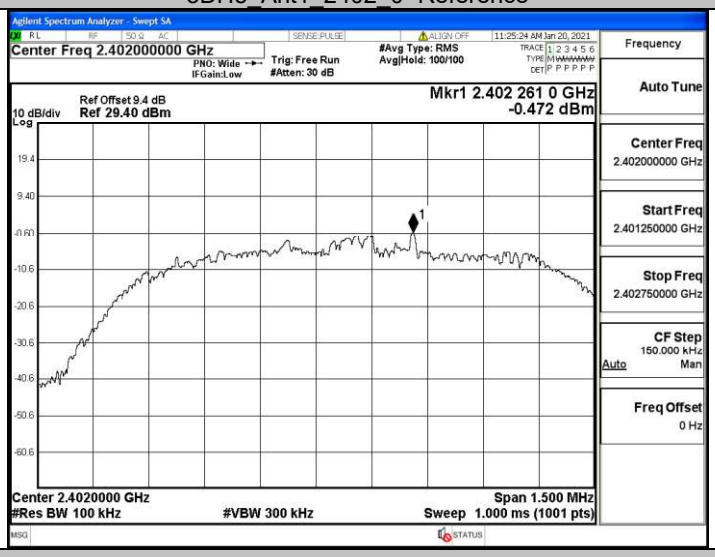

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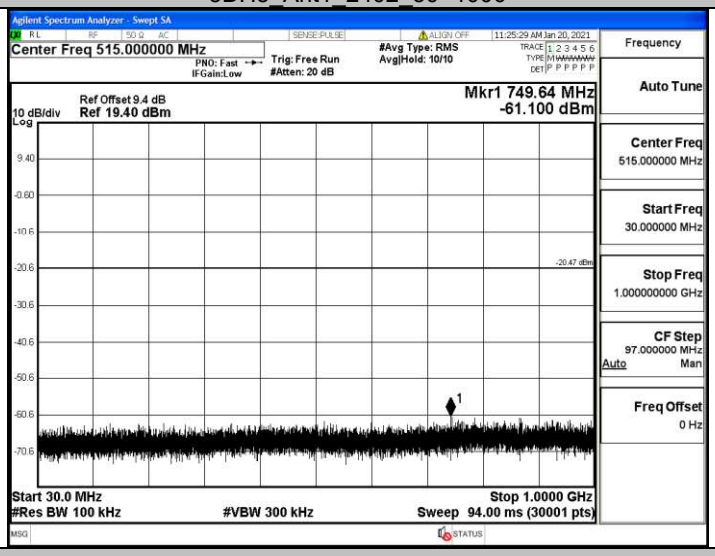

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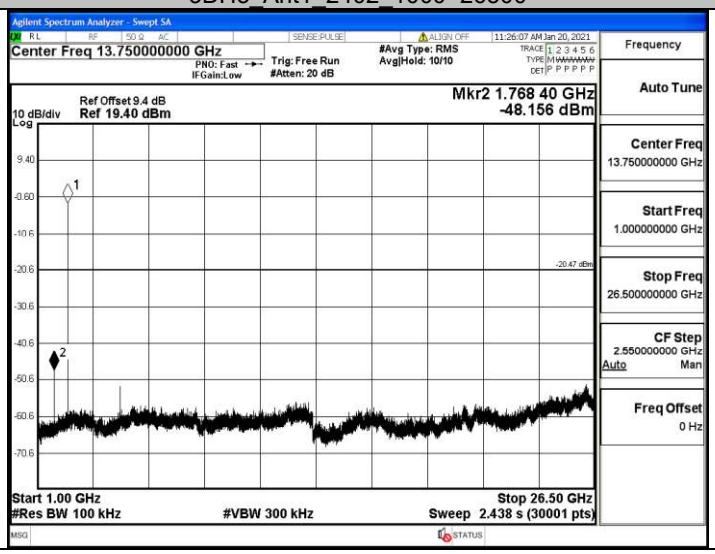

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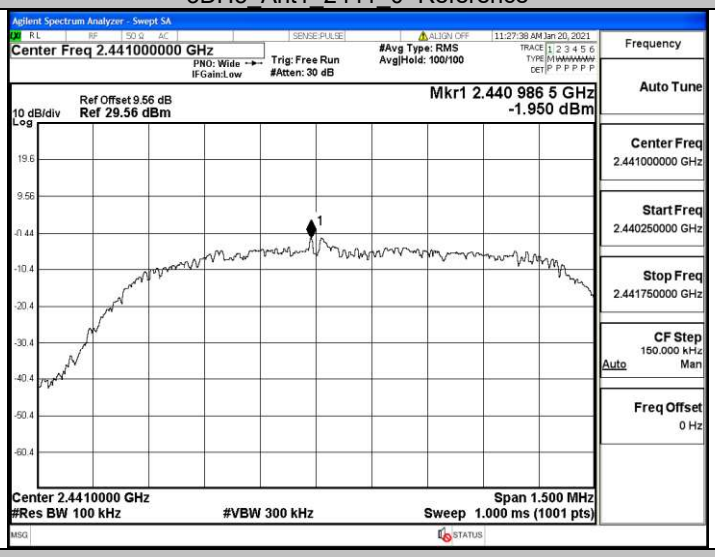

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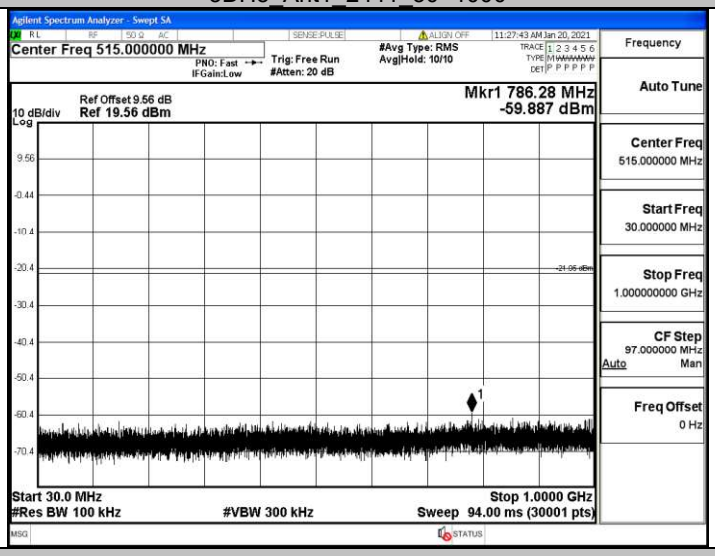

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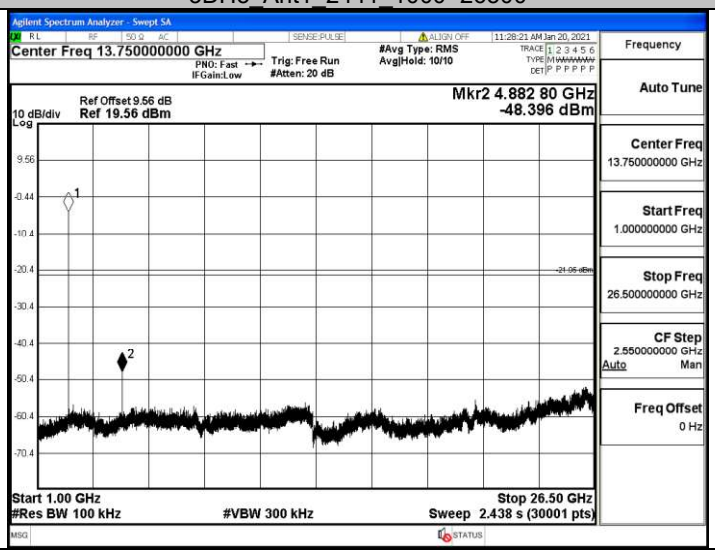

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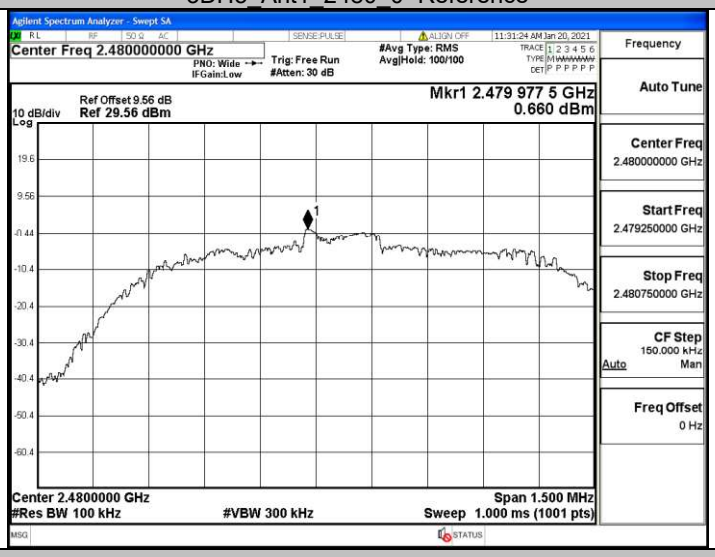

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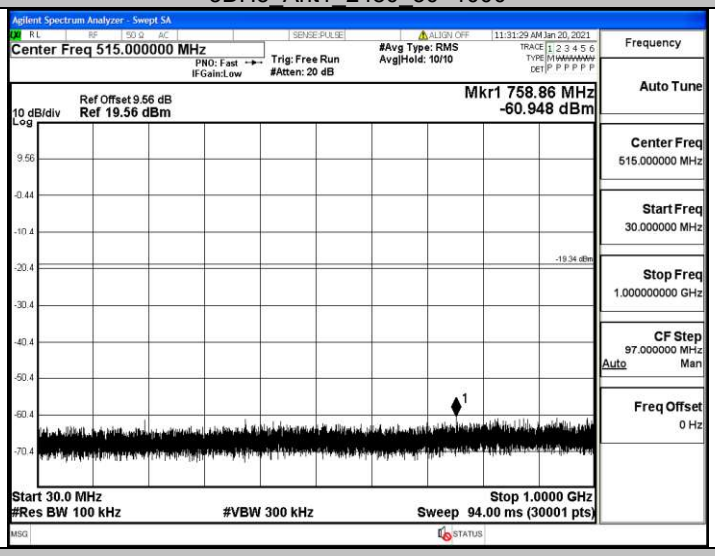

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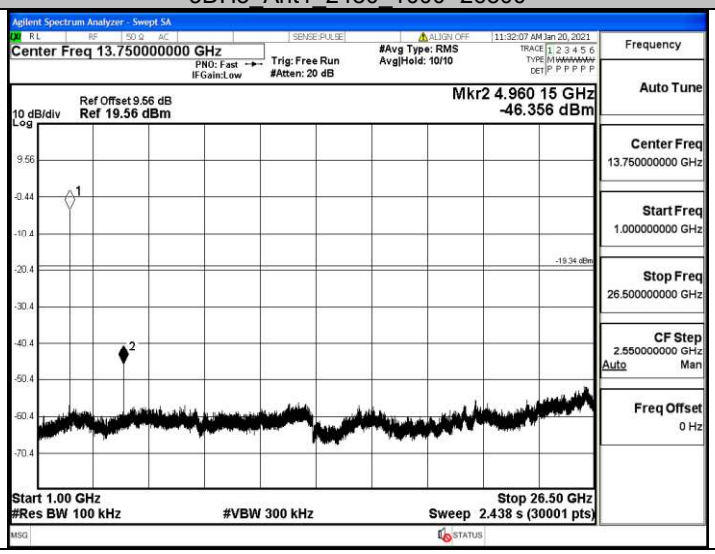


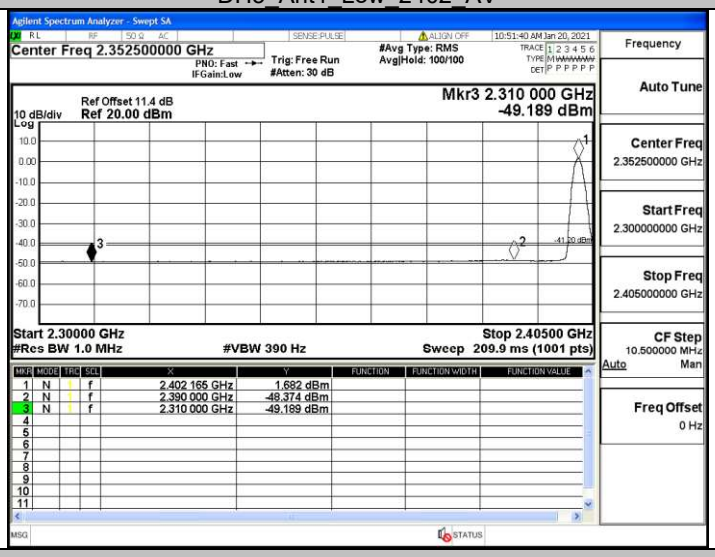
A.8 Restrict-band band-edge measurements

TestMode	Antenna	ChName	Channel(MHz)	Detector	Freq(MHz)	Result(dBm)	Limit(dBm)	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.19	<=-41.20	PASS
				AV	2390.000	-48.37	<=-41.20	PASS
				Peak	2310.000	-41.86	<=-21.20	PASS
				Peak	2390.000	-41.12	<=-21.20	PASS
		High	2480	AV	2483.500	-47.34	<=-41.20	PASS
				AV	2500.000	-48.09	<=-41.20	PASS
				Peak	2483.500	-41.34	<=-21.20	PASS
				Peak	2500.000	-41.92	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.16	<=-41.20	PASS
				AV	2390.000	-48.70	<=-41.20	PASS
				Peak	2310.000	-41.55	<=-21.20	PASS
				Peak	2390.000	-40.63	<=-21.20	PASS
		High	2480	AV	2483.500	-47.28	<=-41.20	PASS
				AV	2500.000	-48.04	<=-41.20	PASS
				Peak	2483.500	-38.22	<=-21.20	PASS
				Peak	2500.000	-41.95	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.09	<=-41.20	PASS
				AV	2390.000	-48.71	<=-41.20	PASS
				Peak	2310.000	-41.84	<=-21.20	PASS
				Peak	2390.000	-40.39	<=-21.20	PASS
		High	2480	AV	2483.500	-47.42	<=-41.20	PASS
				AV	2500.000	-48.12	<=-41.20	PASS
				Peak	2483.500	-40.89	<=-21.20	PASS
				Peak	2500.000	-40.44	<=-21.20	PASS

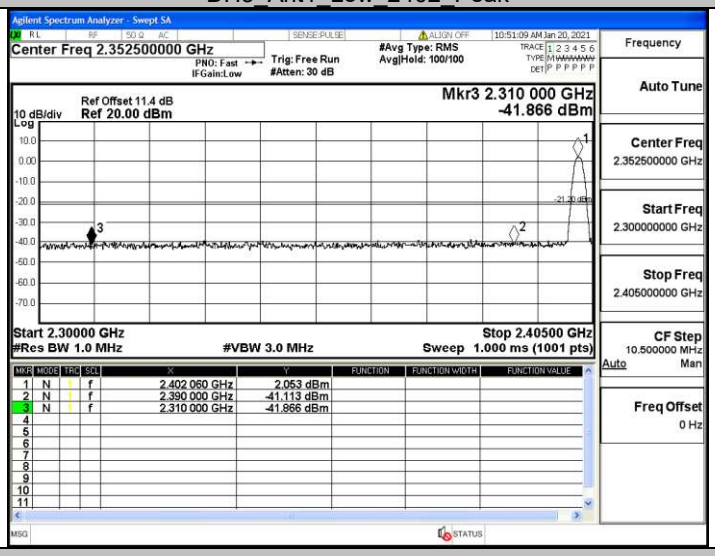
1. The Antenna Gain is compensated in the graph with 2dBi and Antenna Gain which is Higher.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

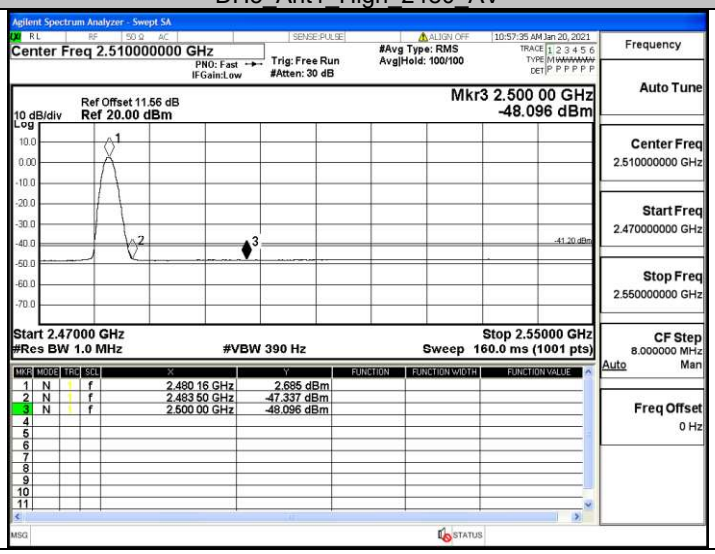
DH5_Ant1_Low_2402_AV



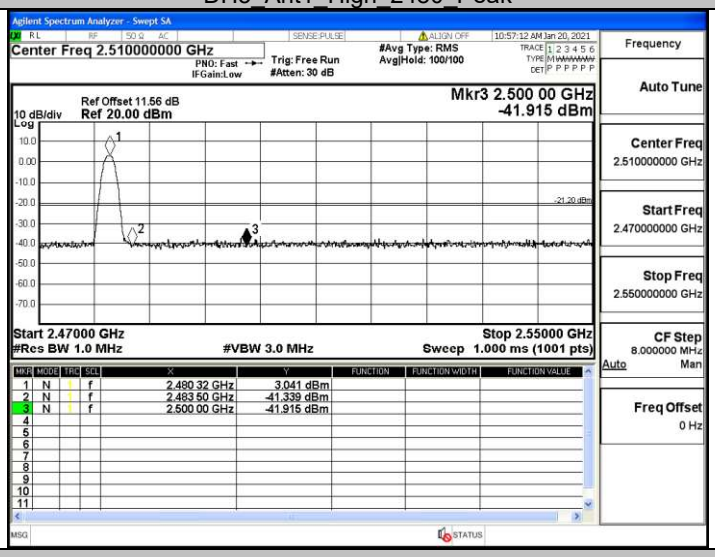
DH5_Ant1_Low_2402_Peak



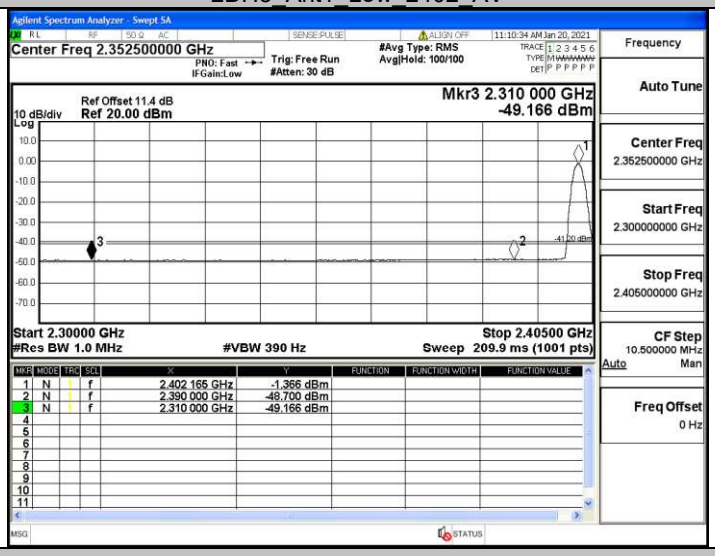
DH5_Ant1_High_2480_AV



DH5_Ant1_High_2480_Peak



2DH5_Ant1_Low_2402_AV



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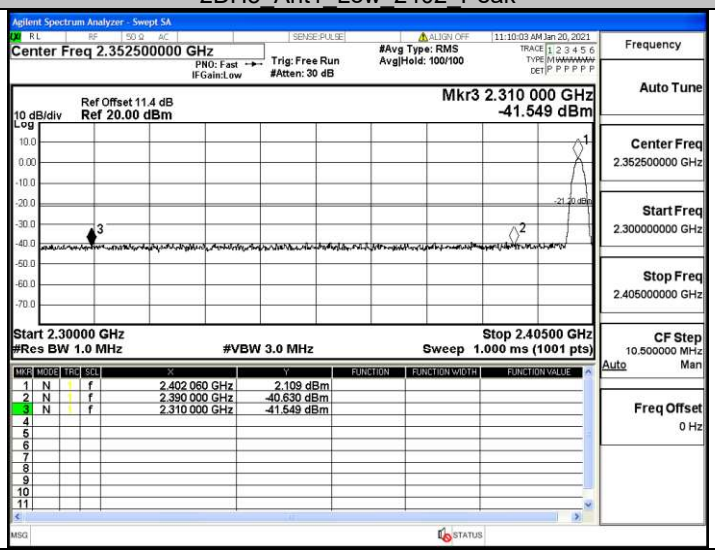

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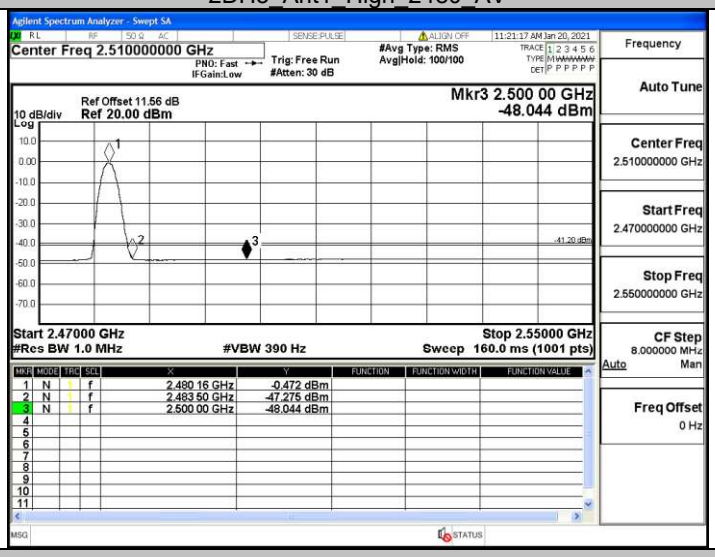

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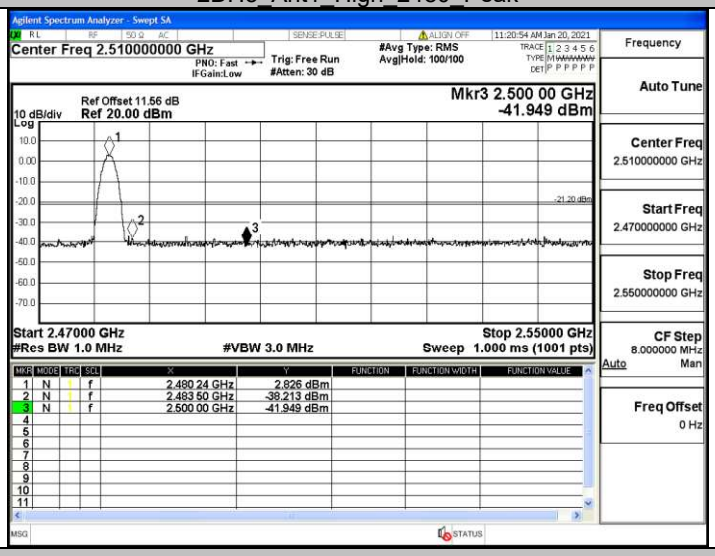
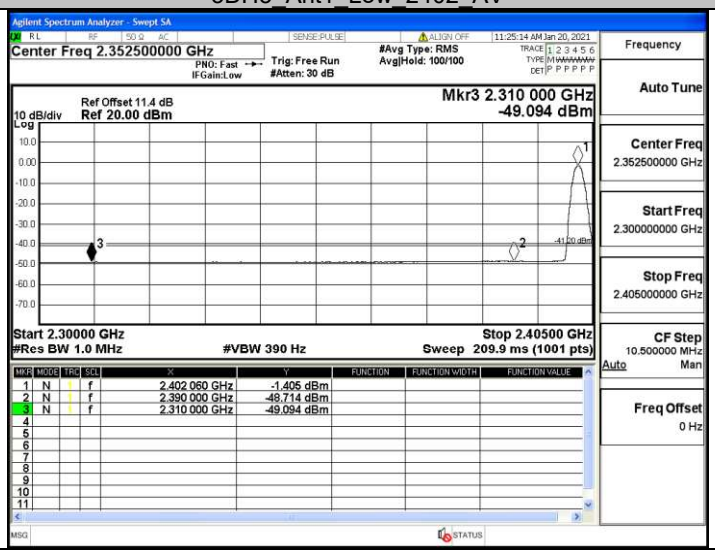


3DH5_Ant1_Low_2402_AV



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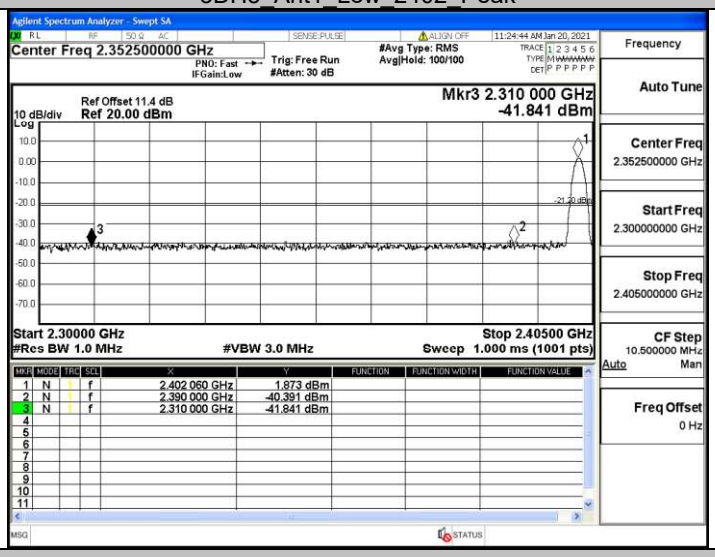

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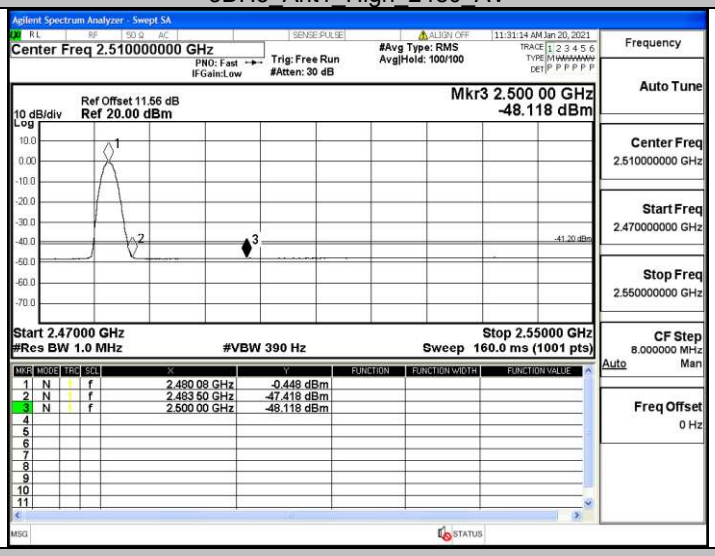
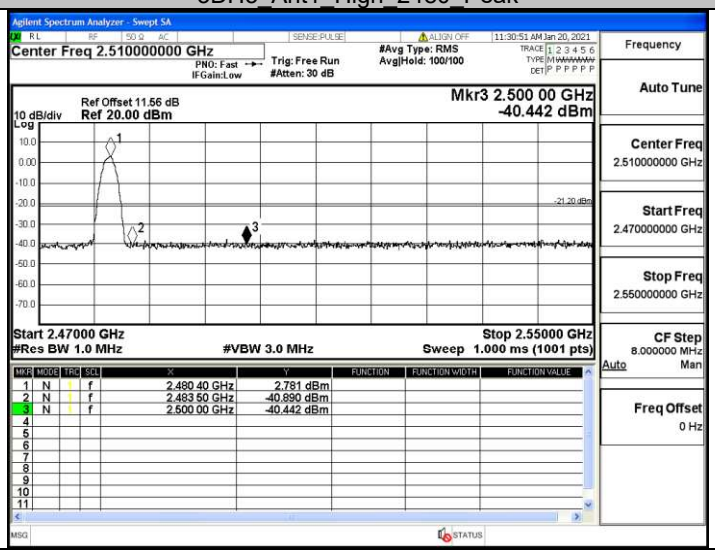
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