



Appendix A

RF Test Data for BT V4.2 (BDR/EDR) (Conducted Measurement)

Product Name: Tablet

Trade Mark: HYUNDAI

Test Model: 7GB1

Environmental Conditions

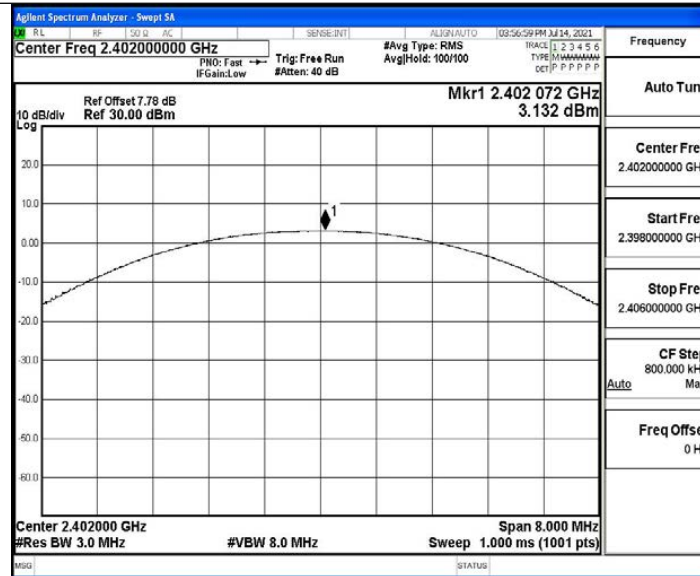
Temperature:	21.5° C
Relative Humidity:	52.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Ken He
Supervised by:	Li Huan

A.1 Maximum Conducted Peak Output Power

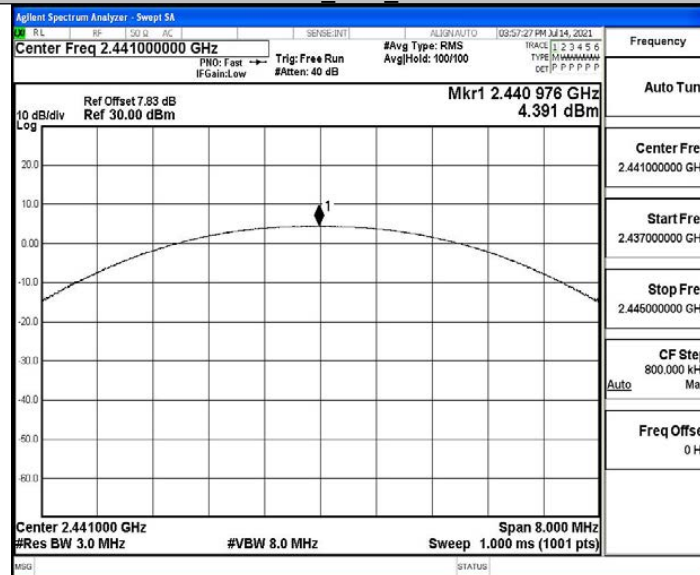
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.13	≤20.97	PASS
		2441	4.39	≤20.97	PASS
		2480	3.07	≤20.97	PASS
2DH5	Ant1	2402	2.21	≤20.97	PASS
		2441	3.49	≤20.97	PASS
		2480	2.22	≤20.97	PASS
3DH5	Ant1	2402	2.34	≤20.97	PASS
		2441	3.63	≤20.97	PASS
		2480	2.28	≤20.97	PASS



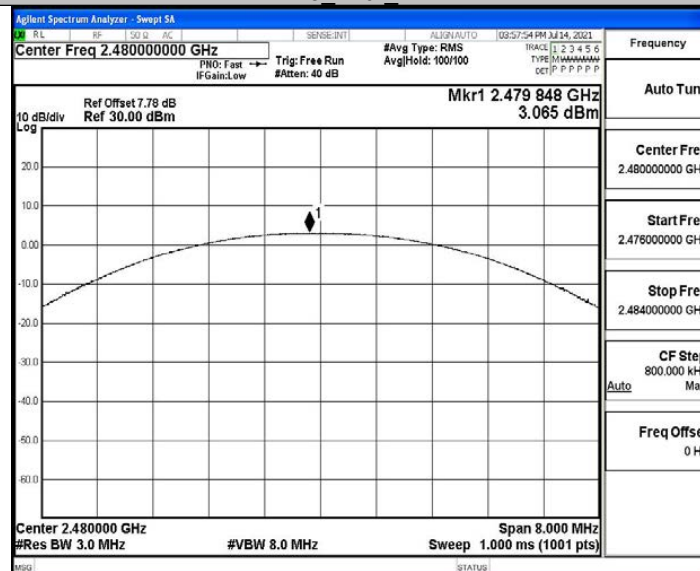
Test Graphs



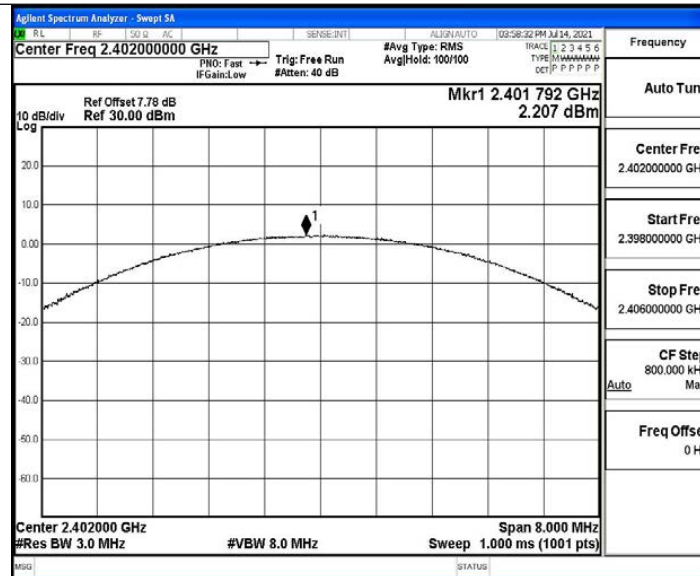
DH5_Ant1_2402



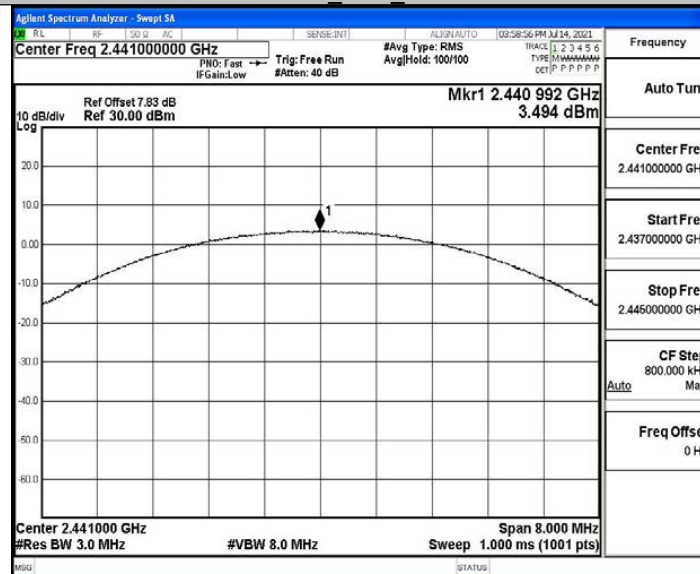
DH5_Ant1_2441



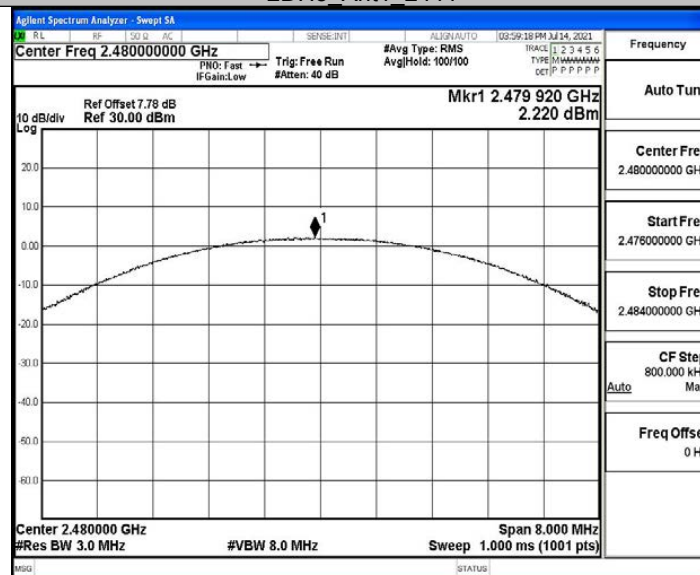
DH5_Ant1_2480



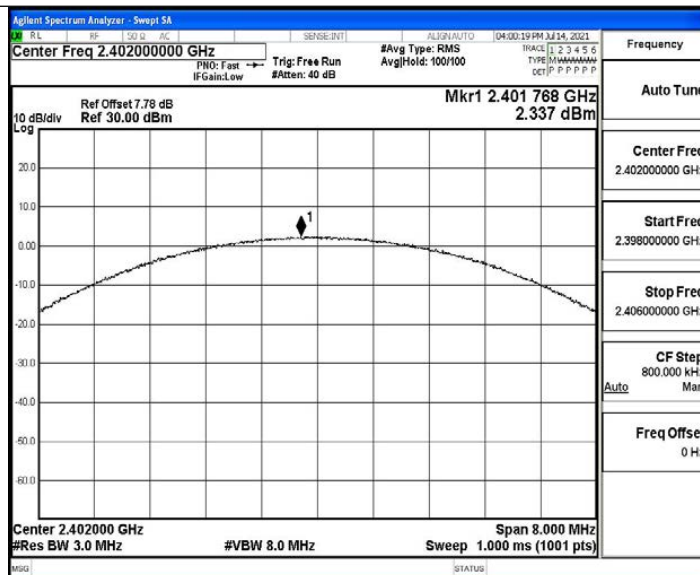
2DH5_Ant1_2402



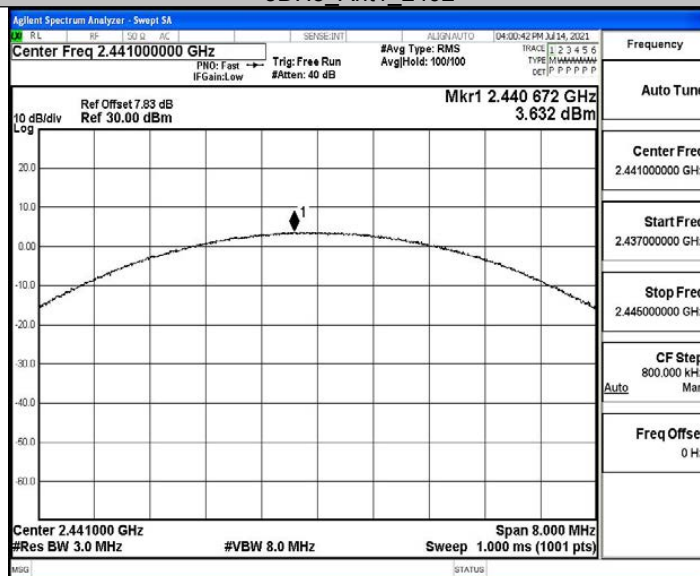
2DH5_Ant1_2441



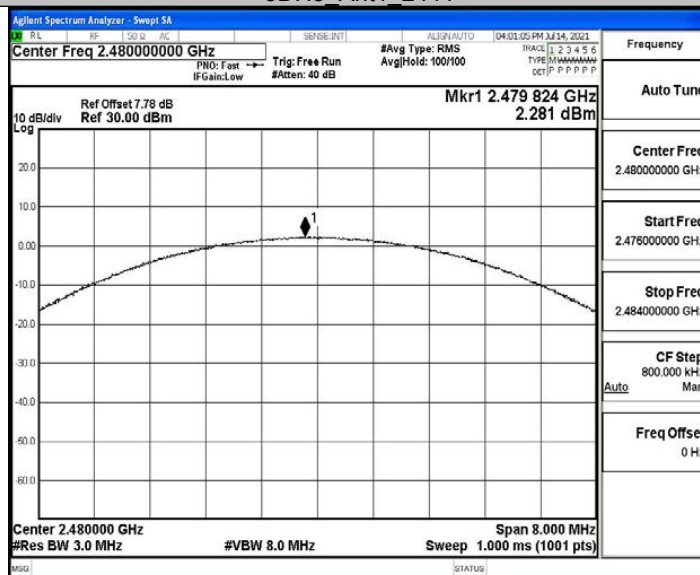
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



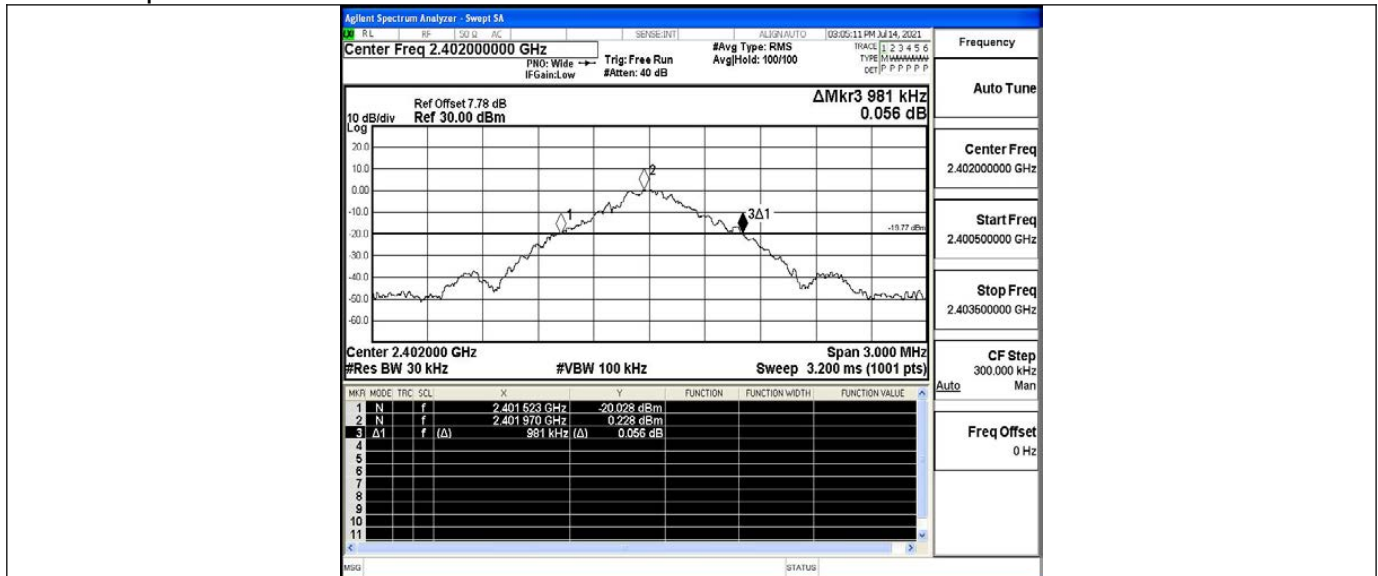
3DH5_Ant1_2480



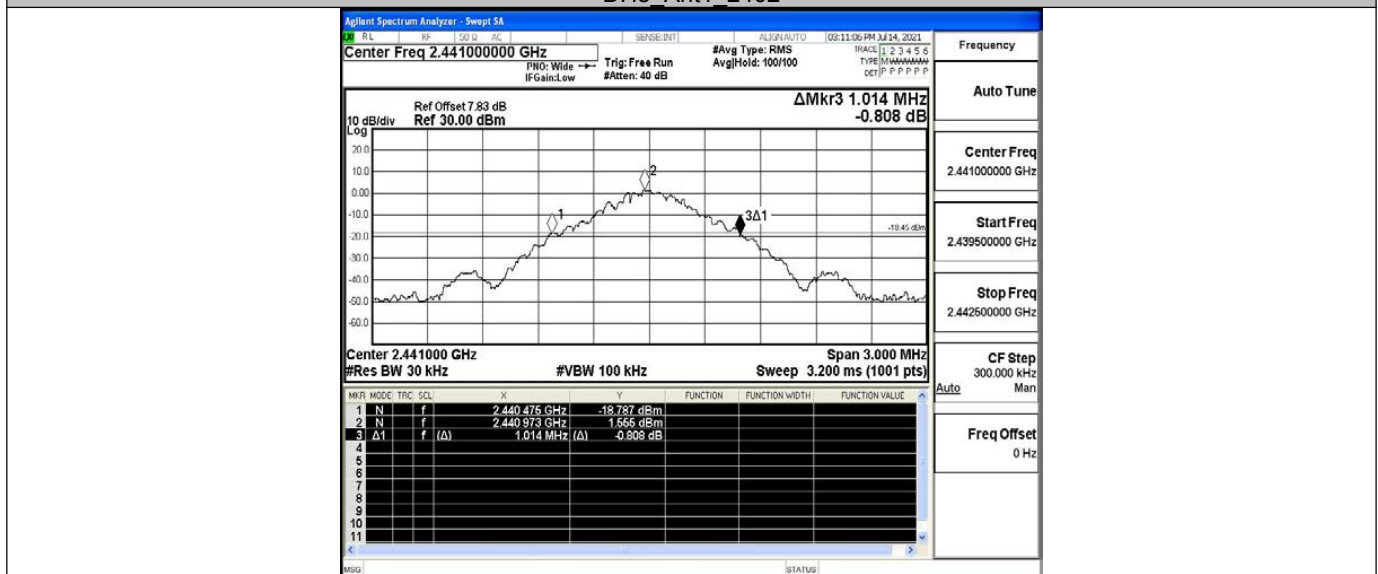
A.2 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.981	2401.523	2402.504	---	PASS
		2441	1.014	2440.475	2441.489	---	PASS
		2480	1.026	2479.460	2480.486	---	PASS
2DH5	Ant1	2402	1.314	2401.343	2402.657	---	PASS
		2441	1.317	2440.340	2441.657	---	PASS
		2480	1.335	2479.331	2480.666	---	PASS
3DH5	Ant1	2402	1.317	2401.343	2402.660	---	PASS
		2441	1.296	2440.355	2441.651	---	PASS
		2480	1.305	2479.346	2480.651	---	PASS

Test Graphs

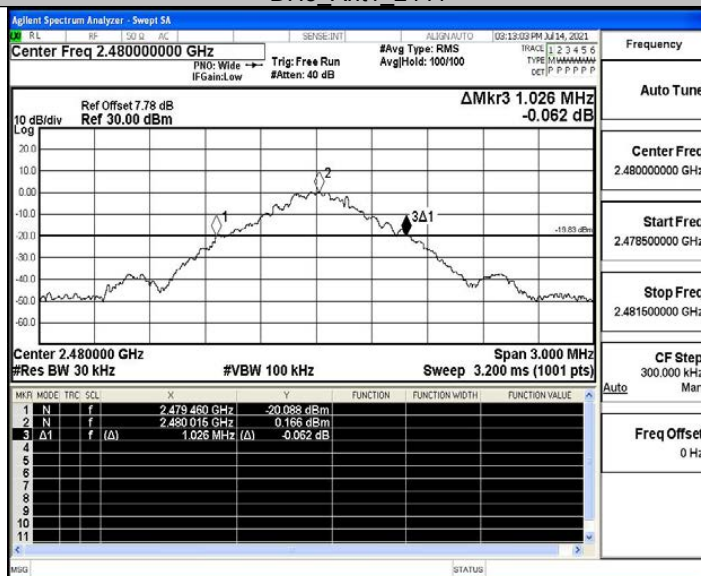


DH5 Ant1 2402

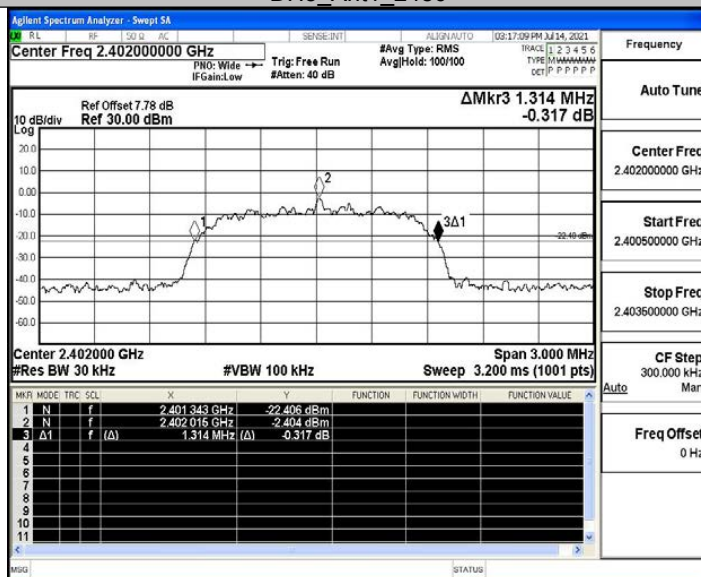




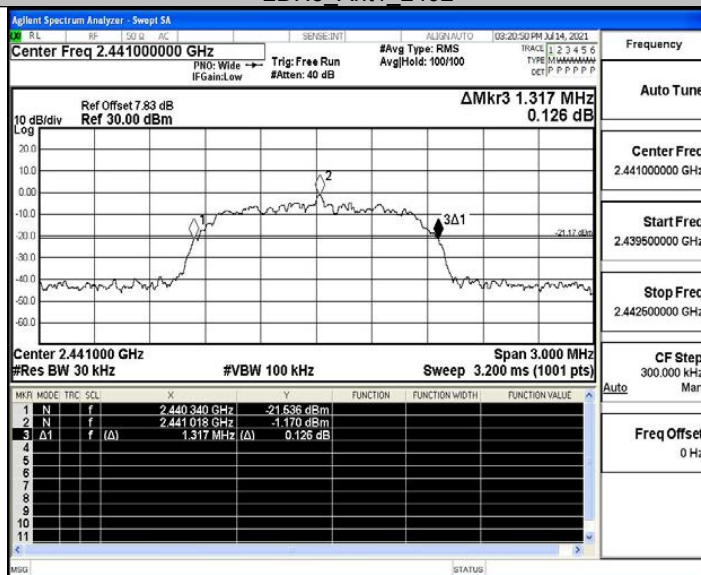
DH5_Ant1_2441



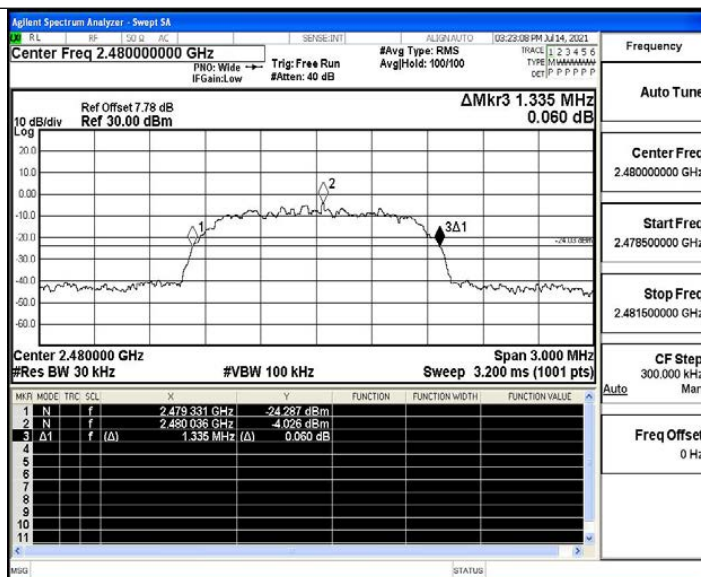
DH5_Ant1_2480



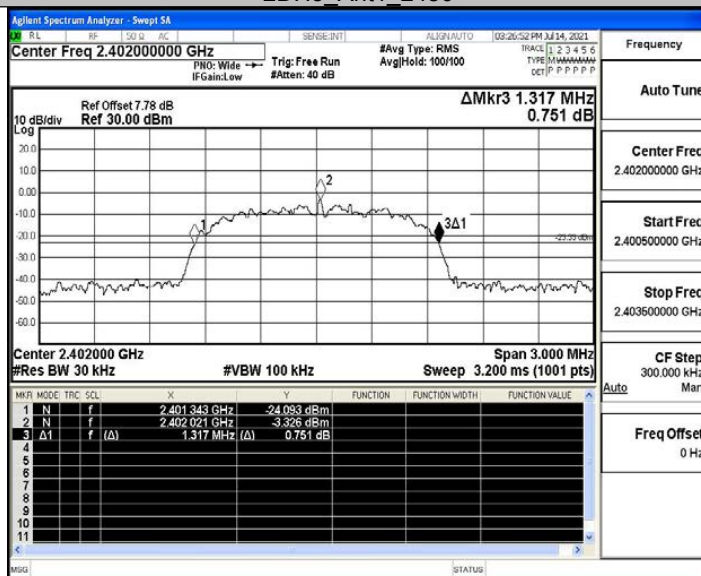
2DH5_Ant1_2402



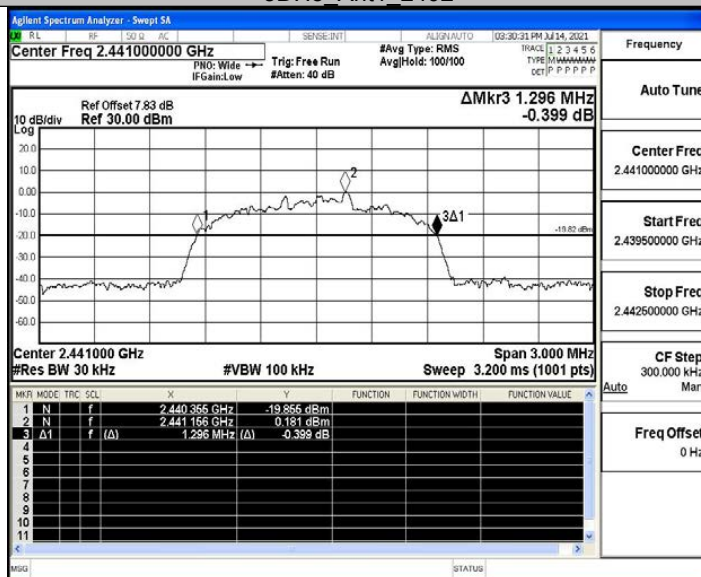
2DH5_Ant1_2441



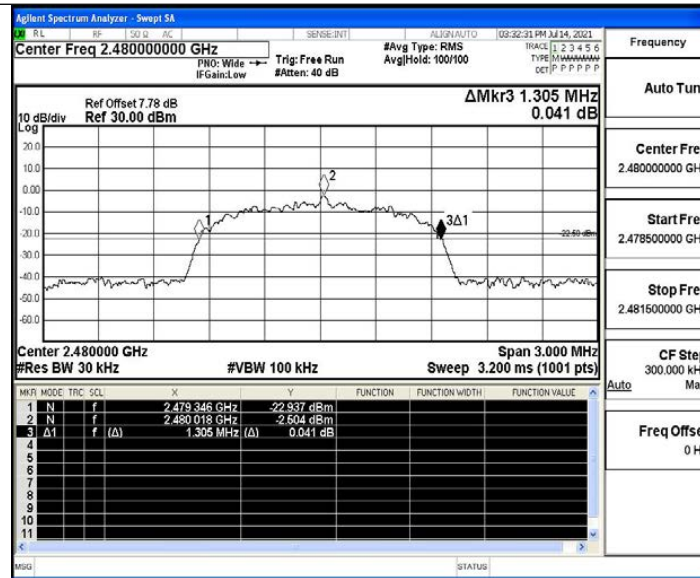
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



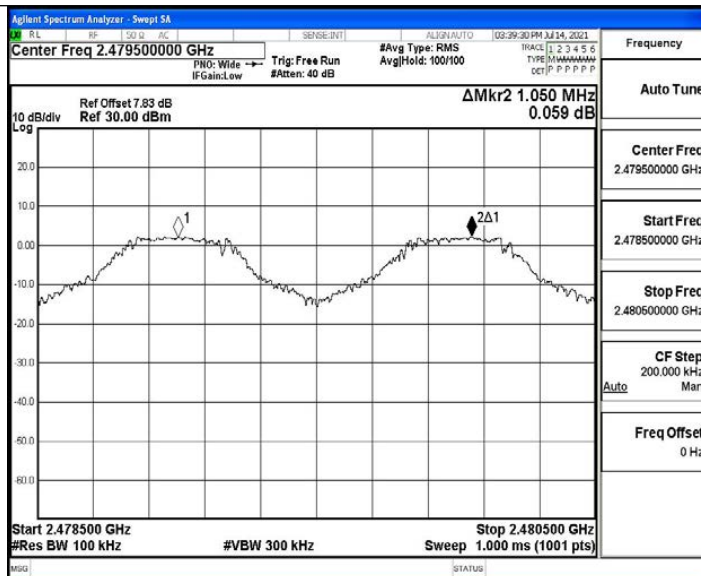
3DH5_Ant1_2480



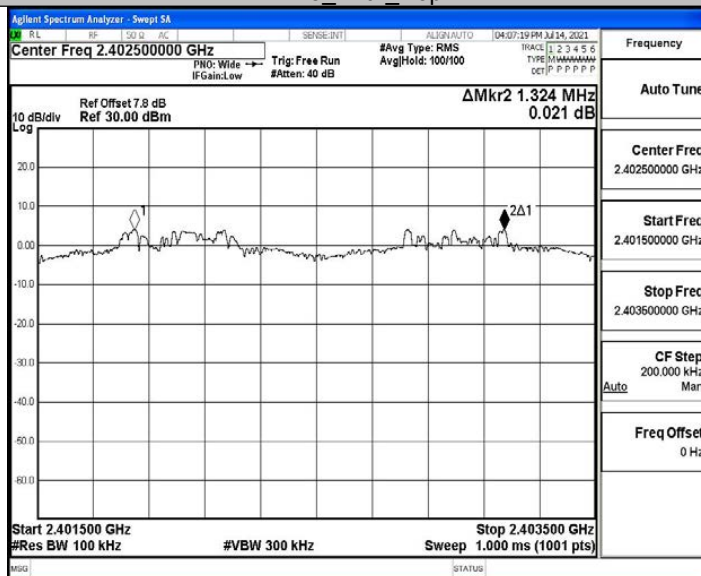
A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.05	≥ 1.026	PASS
2DH5	Ant1	Hop	1.324	≥ 0.890	PASS
3DH5	Ant1	Hop	1.312	≥ 0.878	PASS

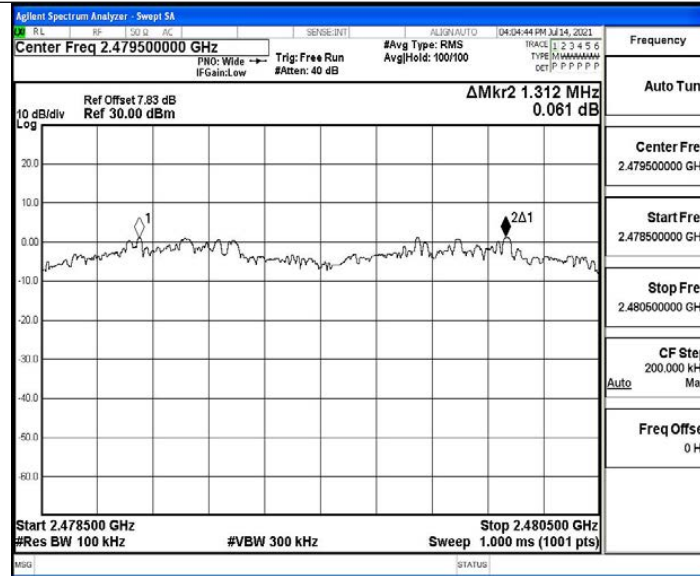
Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



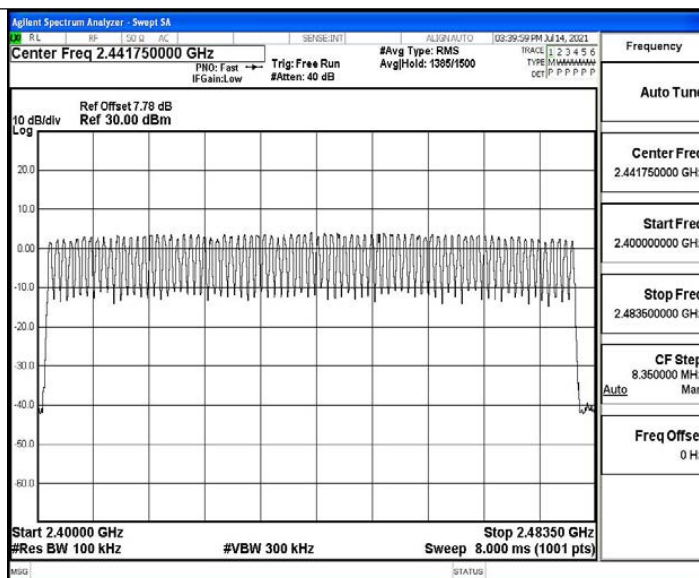
3DH5_Ant1_Hop



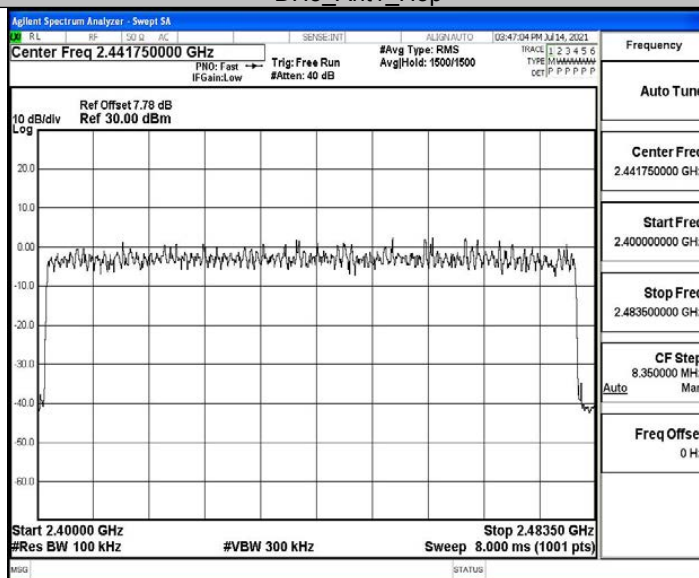
A.4 Hopping Channel Number

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

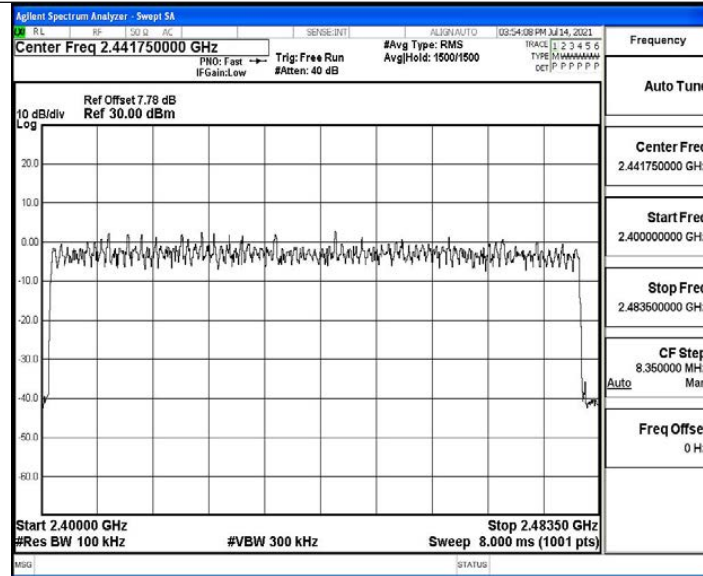
Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



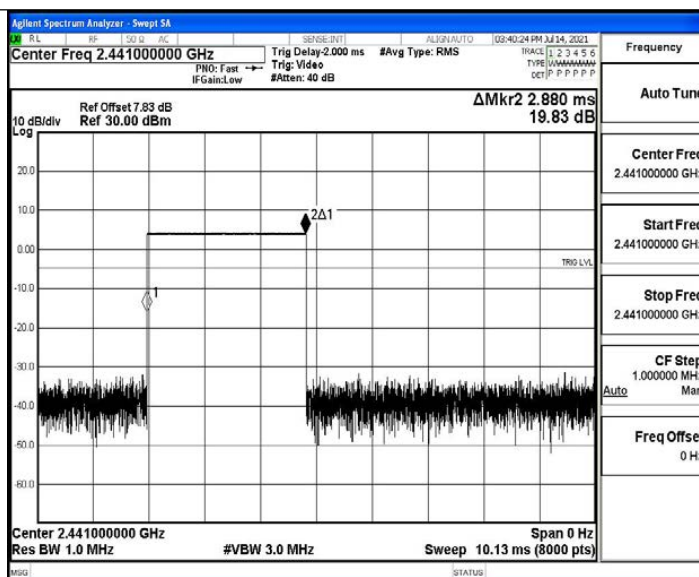
3DH5_Ant1_Hop



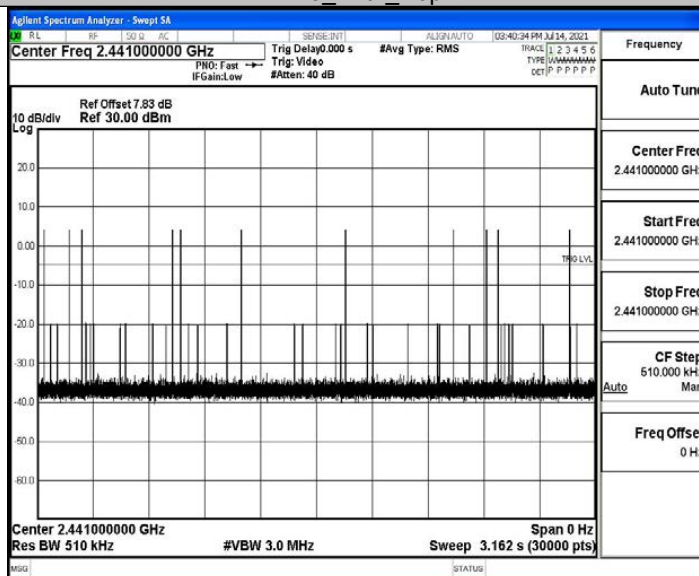
A.5 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH5	Ant1	Hop	2.89	90	0.26	≤0.4	PASS

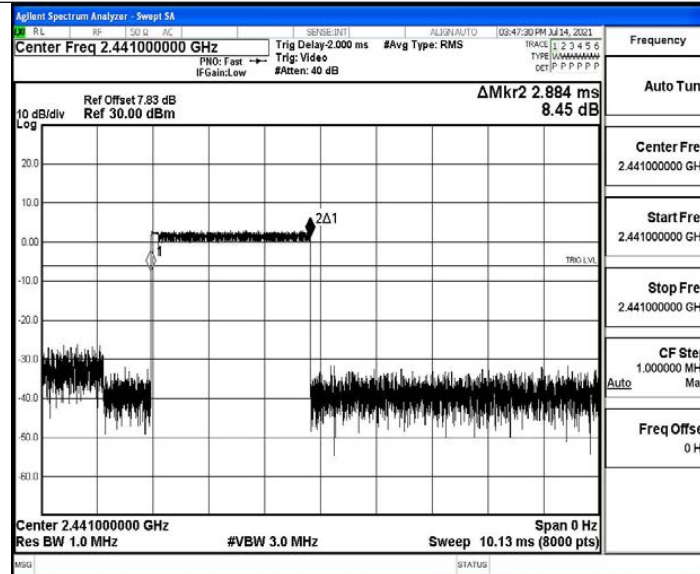
Test Graphs



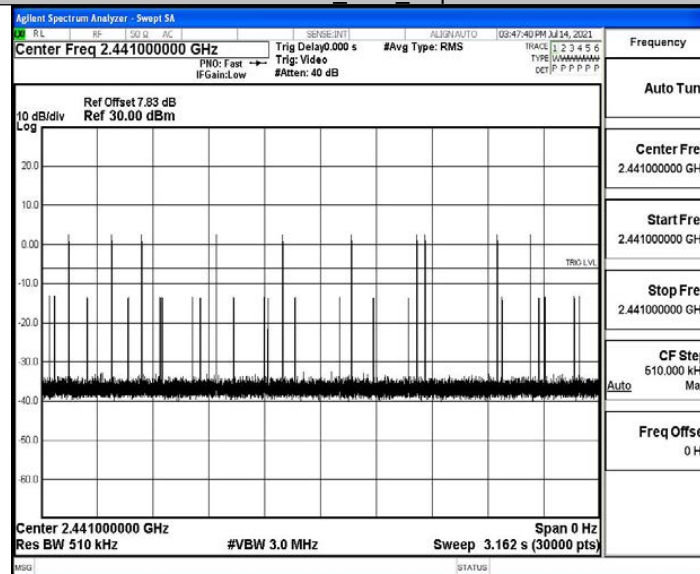
DH5_Ant1_Hop



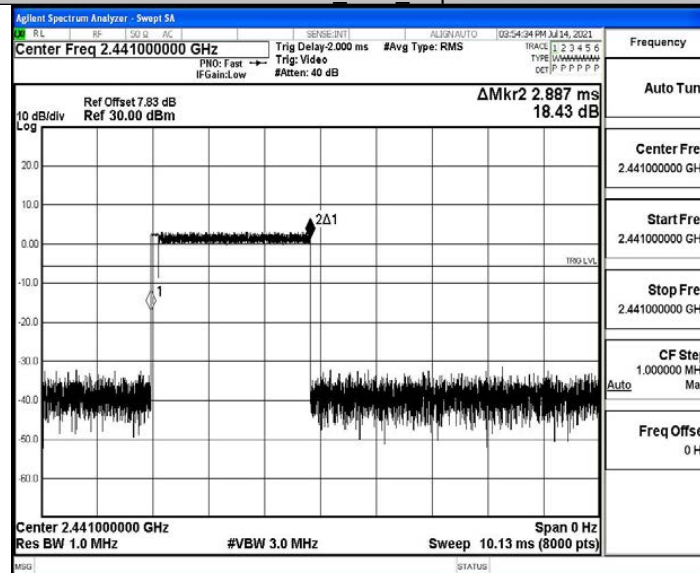
DH5_Ant1_Hop



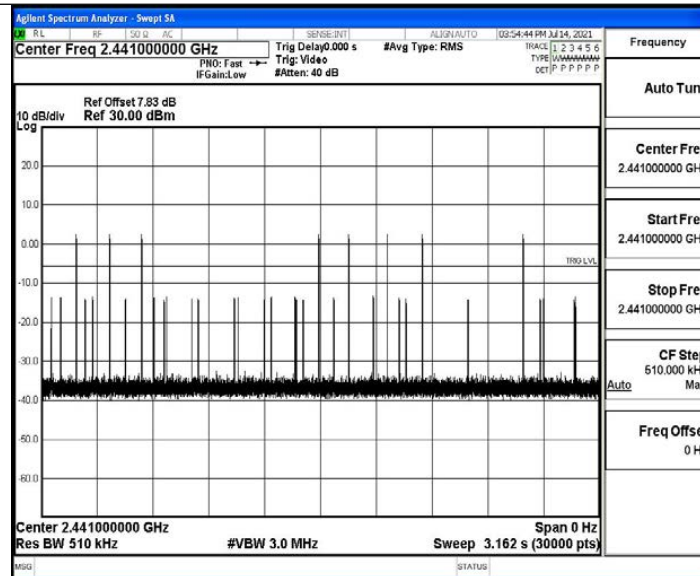
2DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



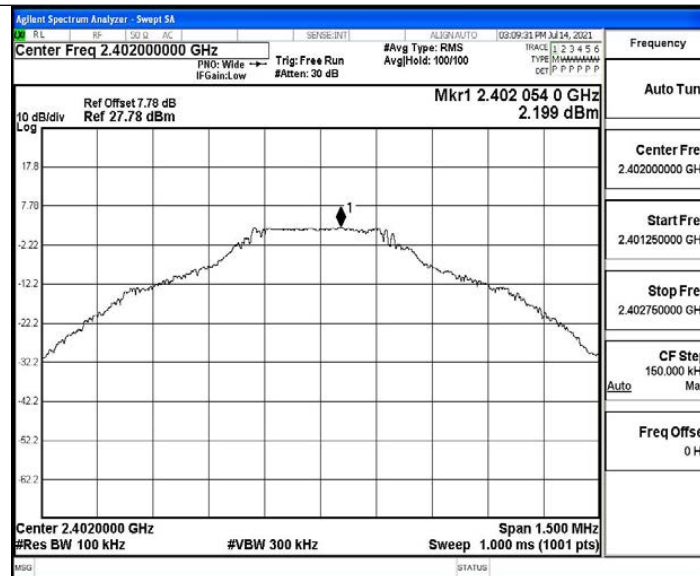


A.6 RF Conducted Spurious Emissions

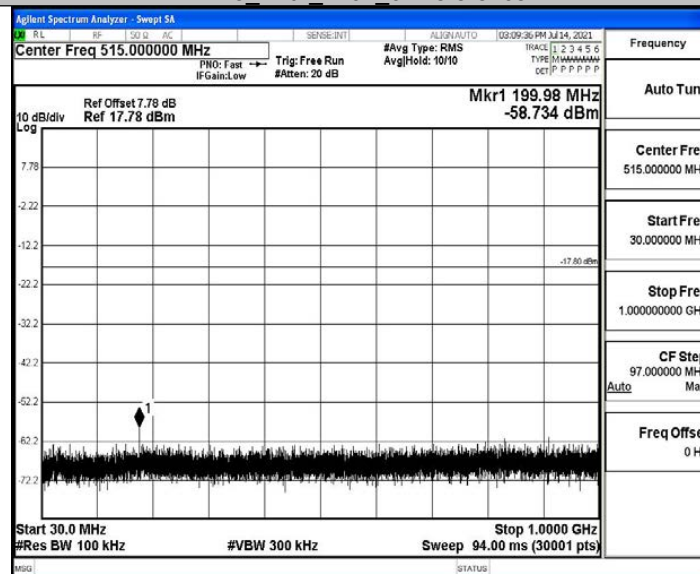
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.20	2.20	---	PASS
			30~1000	2.20	-58.73	≤ -17.8	PASS
			1000~26500	2.20	-47.86	≤ -17.8	PASS
		2441	Reference	3.87	3.87	---	PASS
			30~1000	3.87	-57.09	≤ -16.13	PASS
			1000~26500	3.87	-47.56	≤ -16.13	PASS
		2480	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-57.36	≤ -17.7	PASS
			1000~26500	2.30	-47.4	≤ -17.7	PASS
2DH5	Ant1	2402	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-58.09	≤ -19.53	PASS
			1000~26500	0.47	-47.45	≤ -19.53	PASS
		2441	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-57.92	≤ -20.75	PASS
			1000~26500	-0.75	-46.72	≤ -20.75	PASS
		2480	Reference	-1.20	-1.20	---	PASS
			30~1000	-1.20	-56.57	≤ -21.2	PASS
			1000~26500	-1.20	-47.23	≤ -21.2	PASS
3DH5	Ant1	2402	Reference	-0.70	-0.70	---	PASS
			30~1000	-0.70	-57.93	≤ -20.7	PASS
			1000~26500	-0.70	-47.57	≤ -20.7	PASS
		2441	Reference	-0.39	-0.39	---	PASS
			30~1000	-0.39	-58.5	≤ -20.39	PASS
			1000~26500	-0.39	-48.03	≤ -20.39	PASS
		2480	Reference	0.91	0.91	---	PASS
			30~1000	0.91	-58.11	≤ -19.09	PASS
			1000~26500	0.91	-46.57	≤ -19.09	PASS



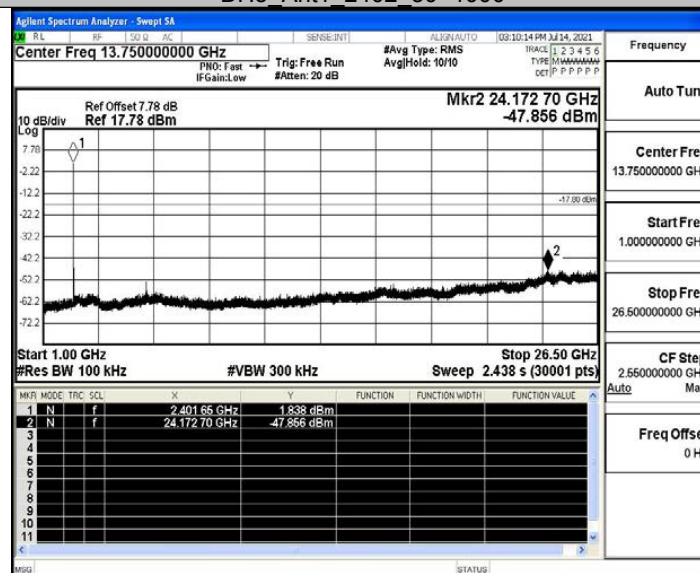
Test Graphs



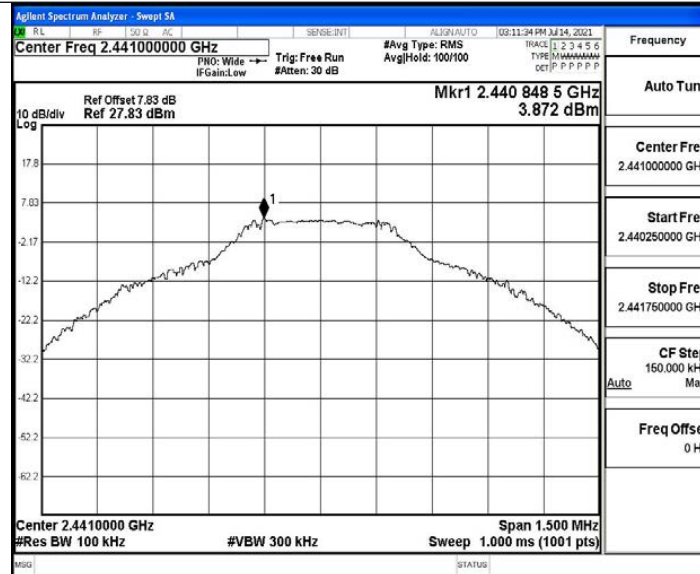
DH5_Ant1_2402_0~Reference



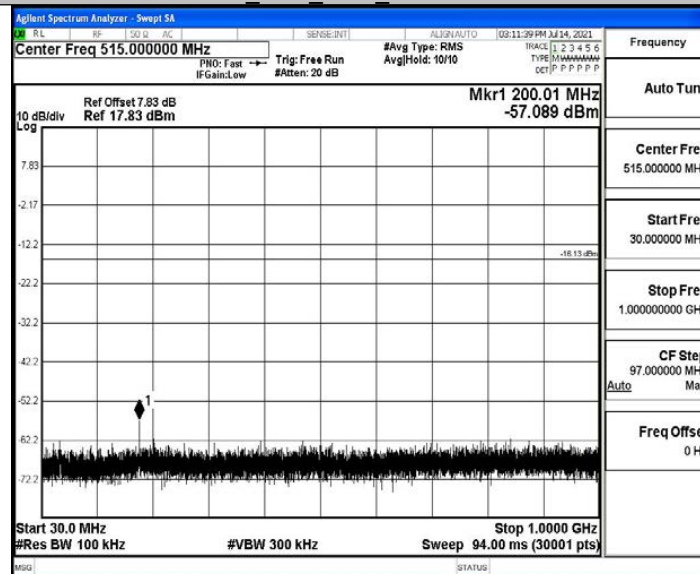
DH5_Ant1_2402_30~1000



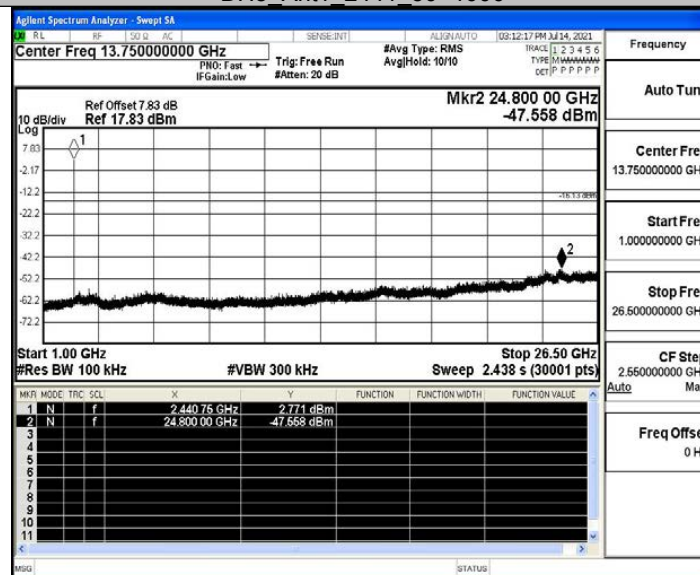
DH5_Ant1_2402_1000~26500



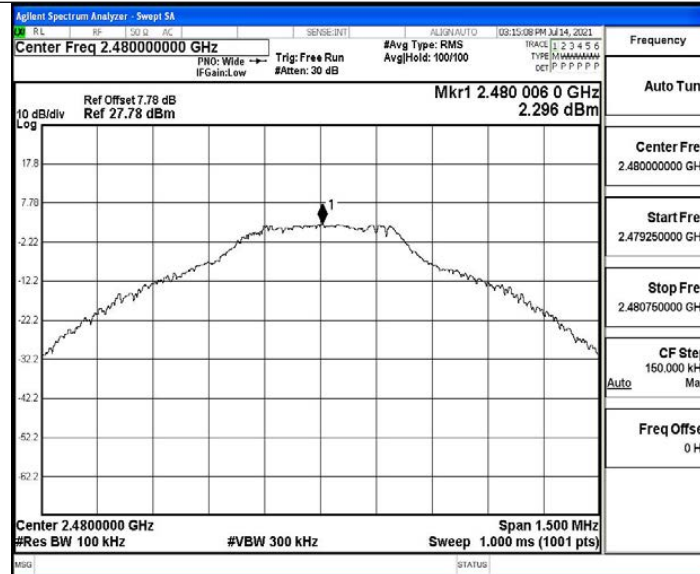
DH5_Ant1_2441_0~Reference



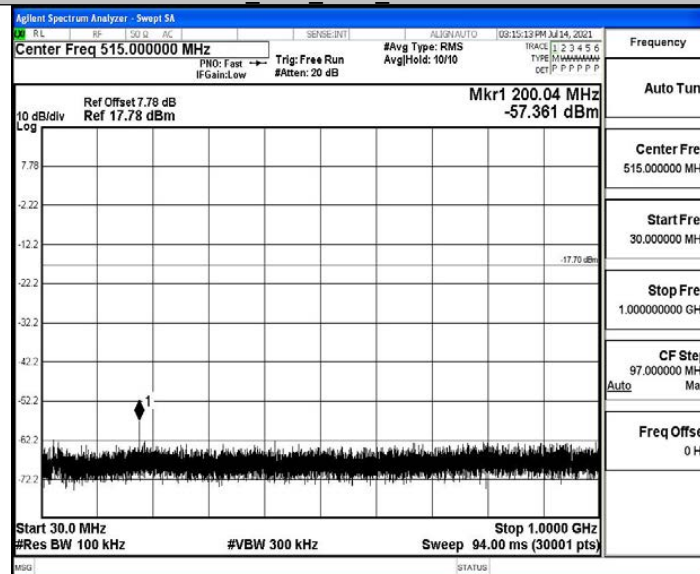
DH5_Ant1_2441_30~1000



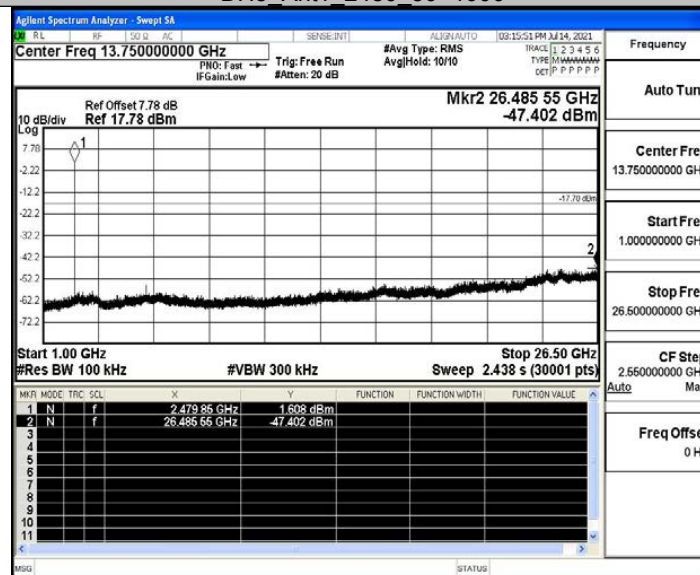
DH5_Ant1_2441_1000~26500



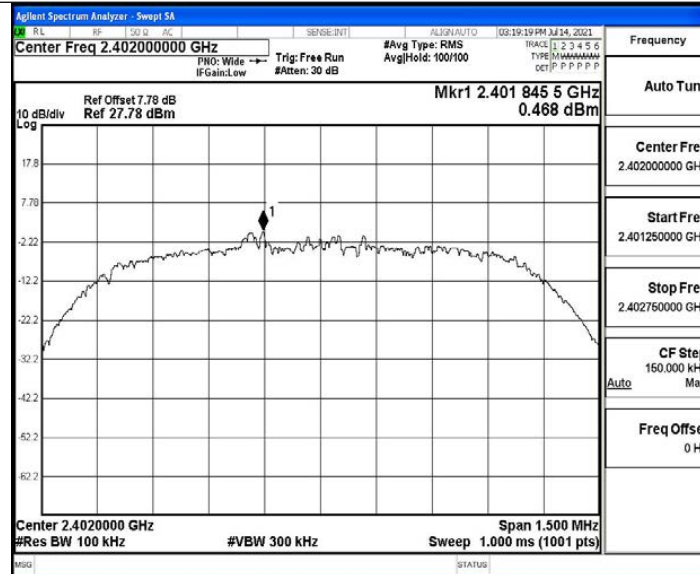
DH5_Ant1_2480_0~Reference



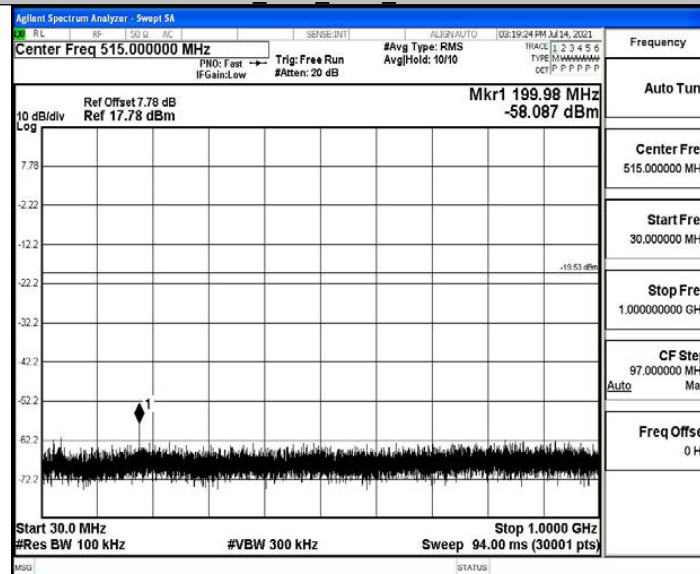
DH5_Ant1_2480_30~1000



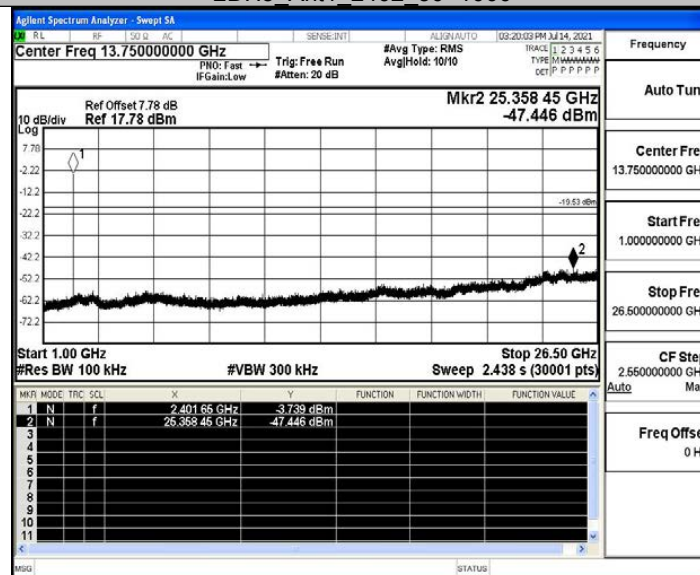
DH5_Ant1_2480_1000~26500



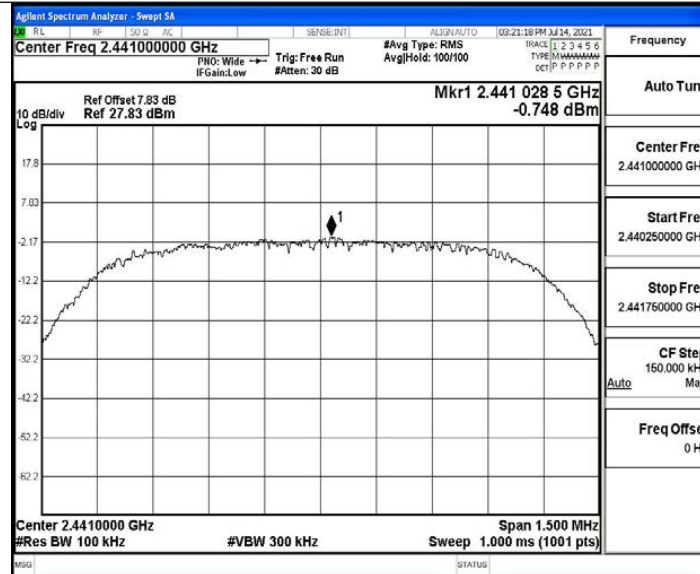
2DH5_Ant1_2402_0~Reference



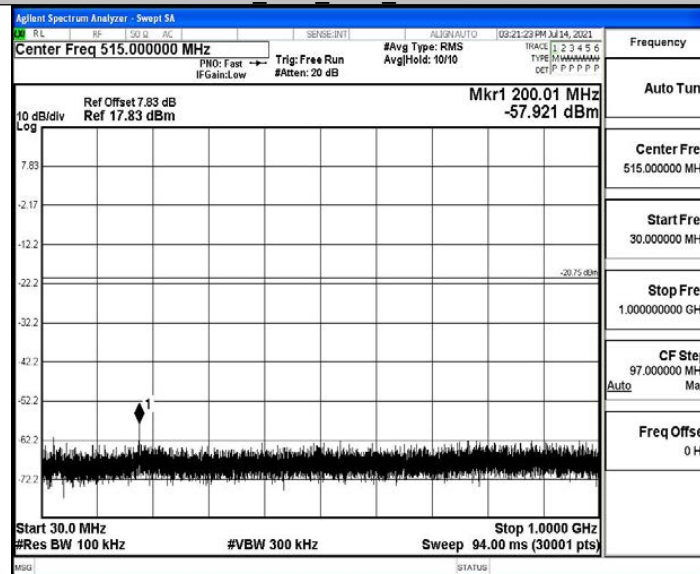
2DH5_Ant1_2402_30~1000



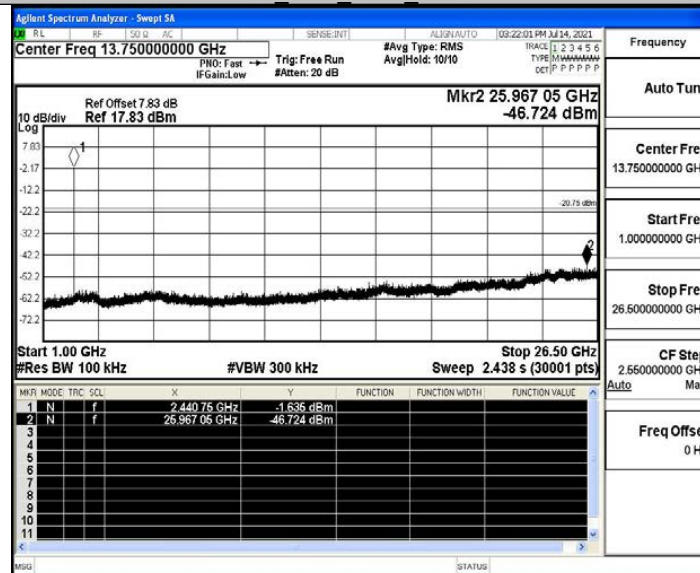
2DH5_Ant1_2402_1000~26500



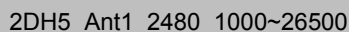
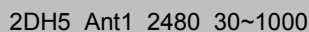
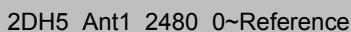
2DH5_Ant1_2441_0~Reference

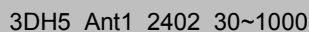
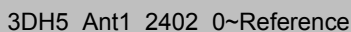


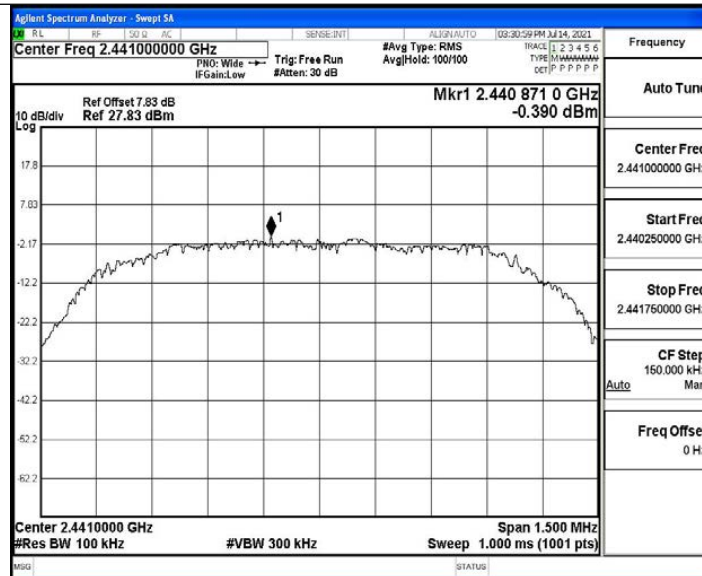
2DH5_Ant1_2441_30~1000



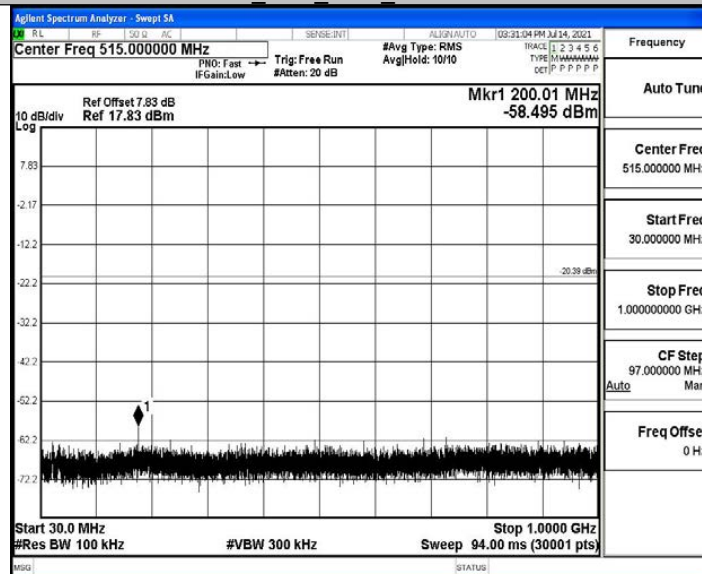
2DH5_Ant1_2441_1000~26500



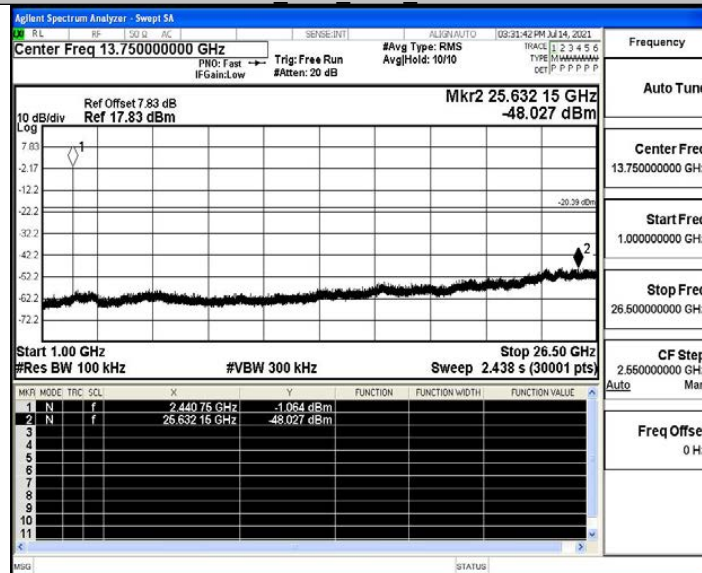




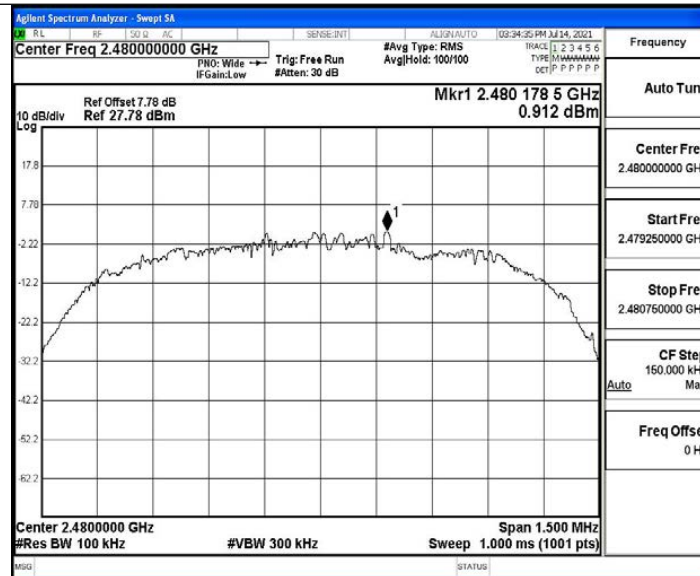
3DH5_Ant1_2441_0~Reference



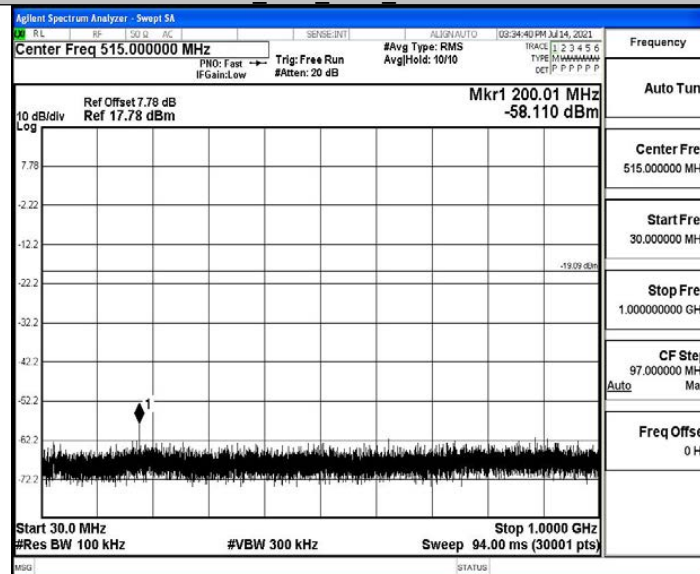
3DH5_Ant1_2441_30~1000



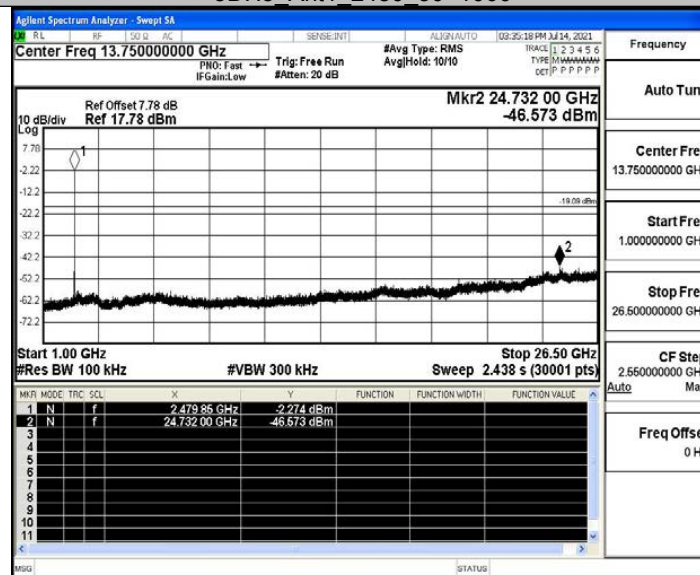
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

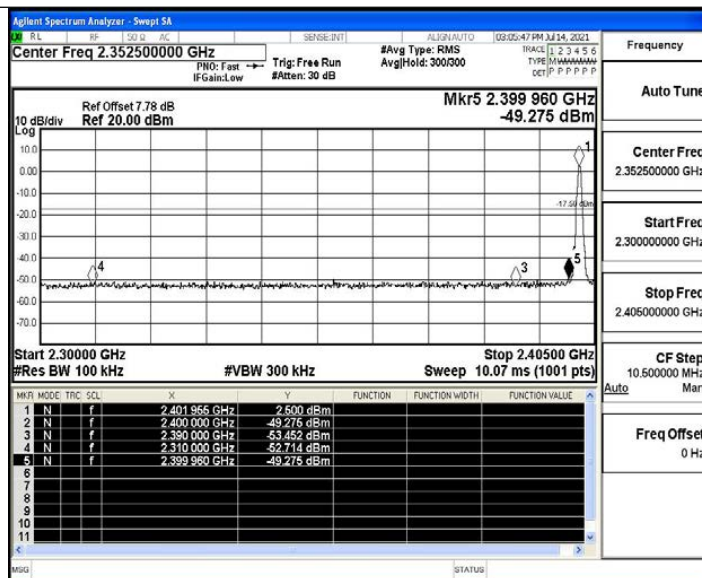


A.7 Band-edge for RF Conducted Emissions

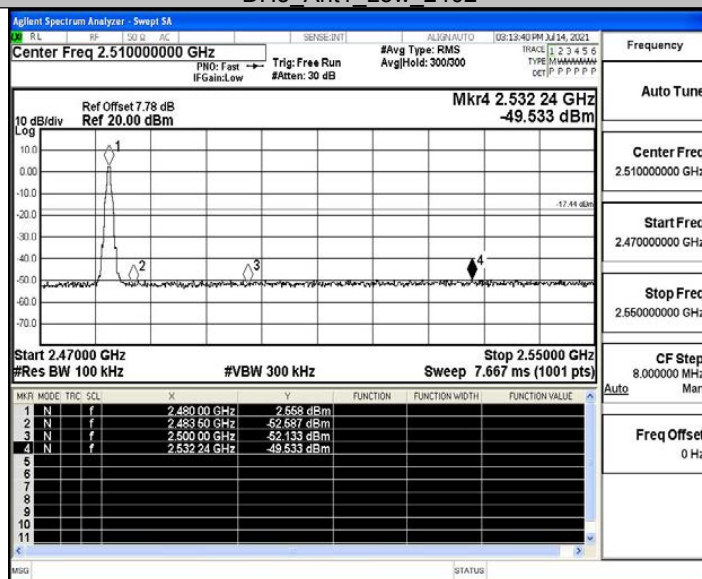
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.50	-49.28	≤ -17.5	PASS
		High	2480	2.56	-49.53	≤ -17.44	PASS
		Low	Hop_2402	2.31	-49.08	≤ -17.69	PASS
		High	Hop_2480	2.27	-48.91	≤ -17.73	PASS
2DH5	Ant1	Low	2402	1.25	-49.69	≤ -18.75	PASS
		High	2480	1.41	-48.65	≤ -18.59	PASS
		Low	Hop_2402	-0.61	-50.02	≤ -20.61	PASS
		High	Hop_2480	-1.79	-48.92	≤ -21.79	PASS
3DH5	Ant1	Low	2402	0.95	-49.32	≤ -19.06	PASS
		High	2480	1.44	-49.07	≤ -18.56	PASS
		Low	Hop_2402	-2.68	-50.04	≤ -22.68	PASS
		High	Hop_2480	0.11	-49.24	≤ -19.89	PASS



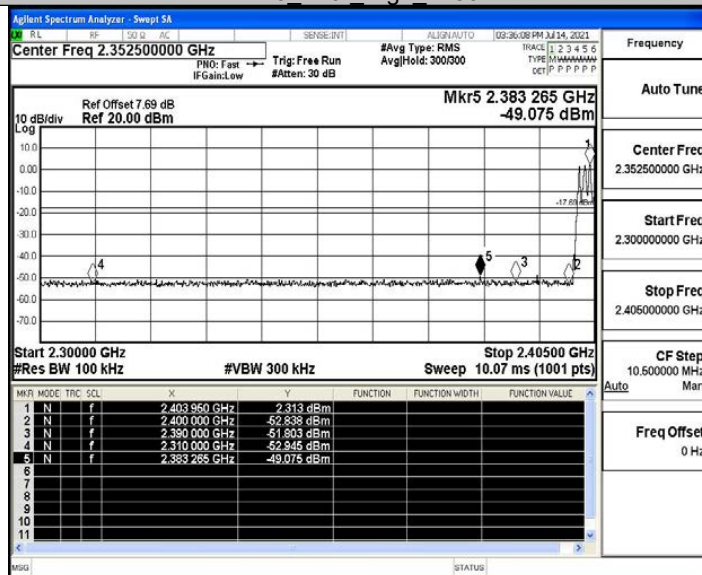
Test Graphs



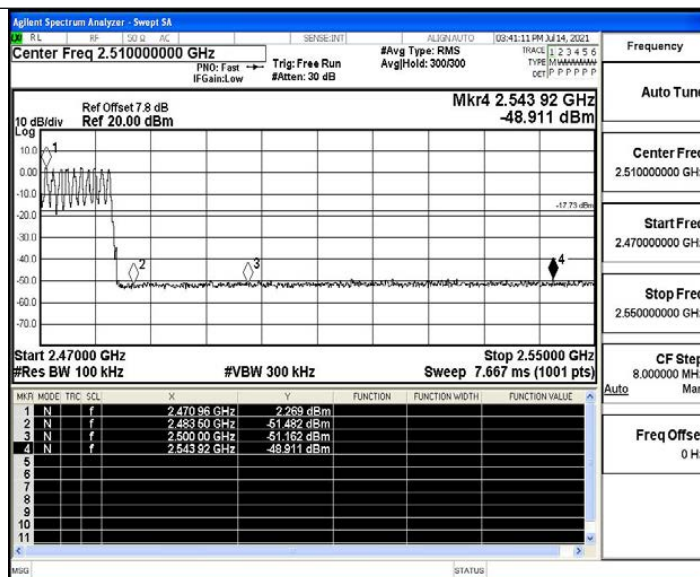
DH5_Ant1_Low_2402



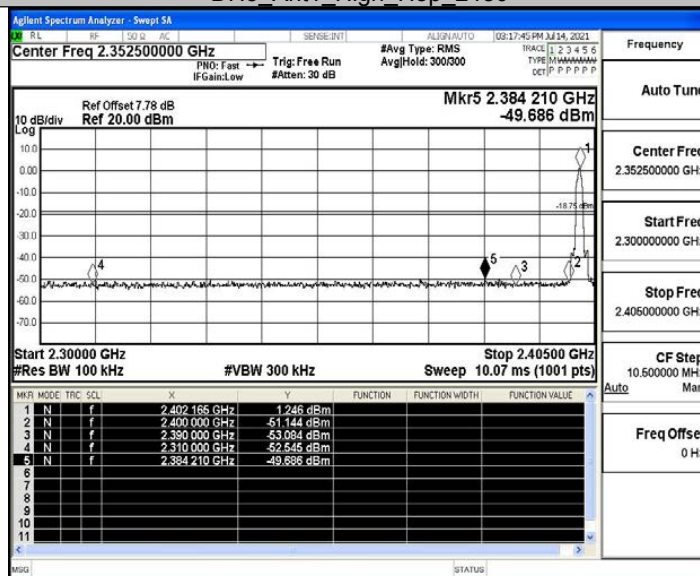
DH5_Ant1_High_2480



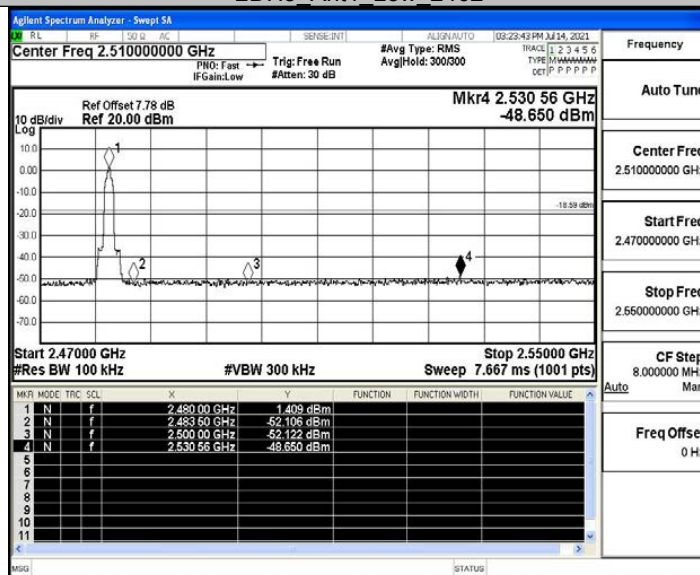
DH5_Ant1_Low_Hop_2402



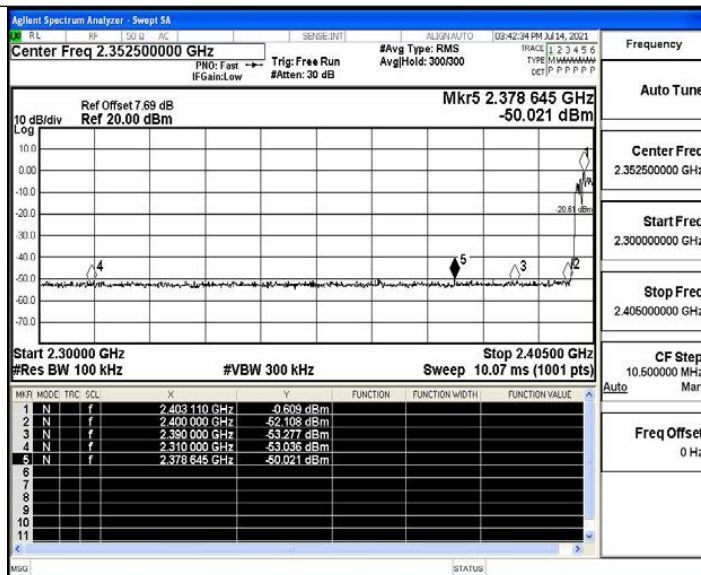
DH5_Ant1_High_Hop_2480



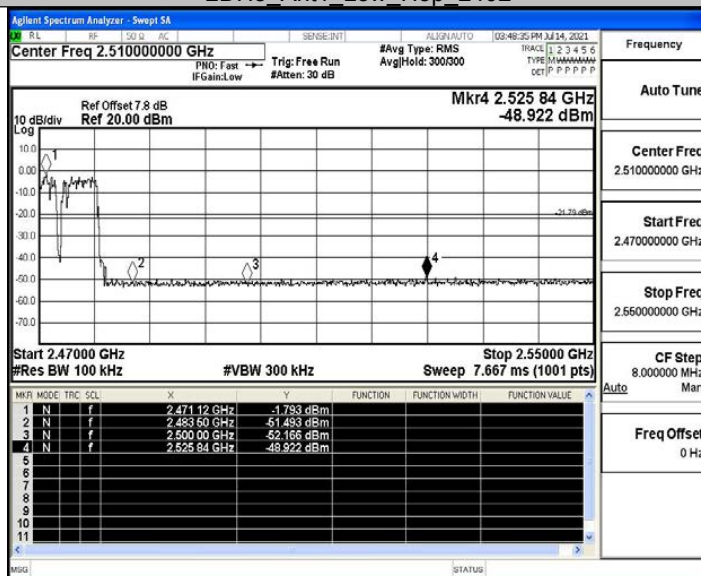
2DH5_Ant1_Low_2402



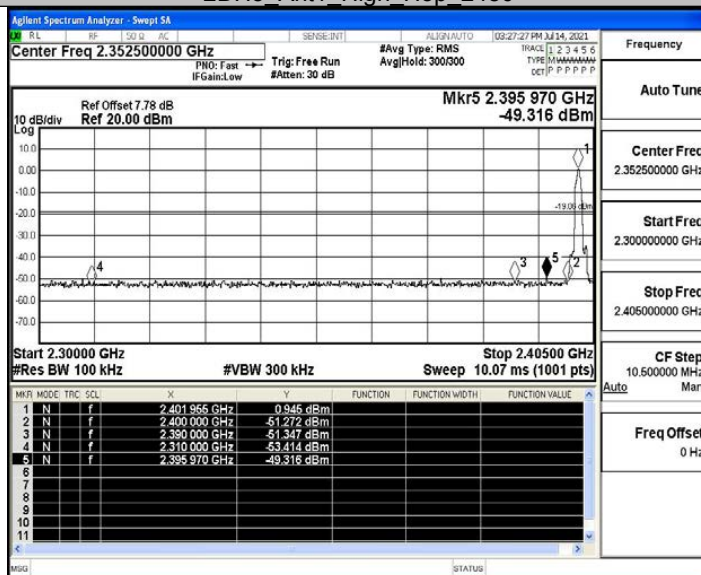
2DH5_Ant1_High_2480



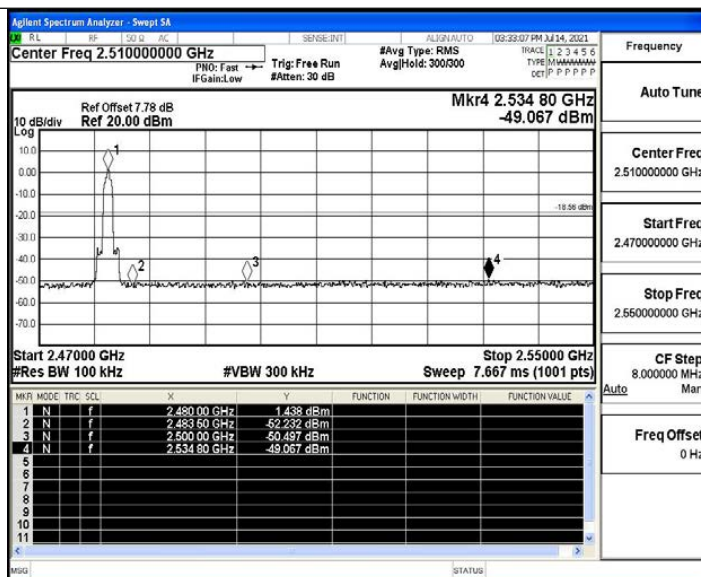
2DH5_Ant1_Low_Hop_2402



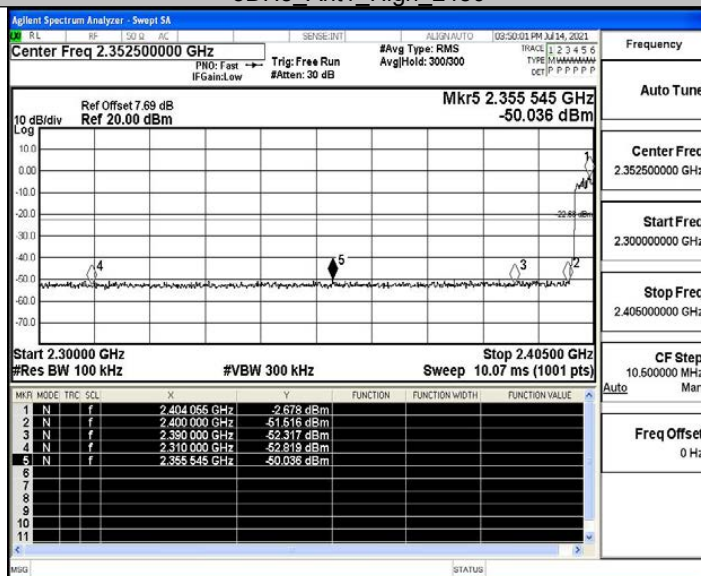
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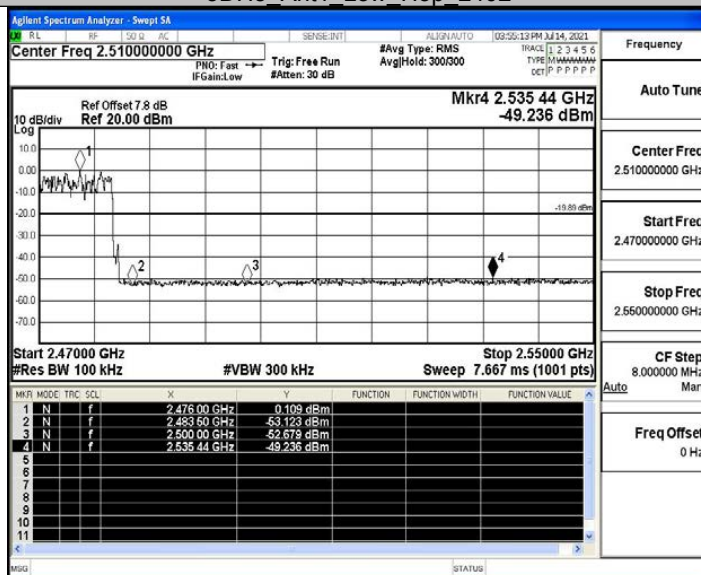
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



A.8 Restrict-band band-edge measurements

Test Mode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-49.19	≤-41.20	48.04	≤54	PASS
				AV	2389.250	-48.63	≤-41.20	48.60	≤54	PASS
				AV	2390.000	-48.68	≤-41.20	48.55	≤54	PASS
				Peak	2310.000	-42.48	≤-21.20	54.75	≤74	PASS
				Peak	2387.045	-37.98	≤-21.20	59.25	≤74	PASS
				Peak	2390.000	-42.32	≤-21.20	54.91	≤74	PASS
		High	2480	AV	2483.500	-47.79	≤-41.20	49.44	≤54	PASS
				AV	2483.520	-47.79	≤-41.20	49.44	≤54	PASS
				AV	2500.000	-48.09	≤-41.20	49.14	≤54	PASS
				Peak	2483.500	-39.51	≤-21.20	57.72	≤74	PASS
				Peak	2486.960	-38.26	≤-21.20	58.97	≤74	PASS
				Peak	2500.000	-40.94	≤-21.20	56.29	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-49.1	≤-41.20	48.13	≤54	PASS
				AV	2386.835	-48.55	≤-41.20	48.68	≤54	PASS
				AV	2390.000	-48.72	≤-41.20	48.51	≤54	PASS
				Peak	2310.000	-41.68	≤-21.20	55.55	≤74	PASS
				Peak	2362.370	-39.12	≤-21.20	58.11	≤74	PASS
				Peak	2390.000	-42.54	≤-21.20	54.69	≤74	PASS
		High	2480	AV	2483.500	-47.63	≤-41.20	49.60	≤54	PASS
				AV	2483.520	-47.63	≤-41.20	49.60	≤54	PASS
				AV	2500.000	-48.1	≤-41.20	49.13	≤54	PASS
				Peak	2483.500	-41.92	≤-21.20	55.31	≤74	PASS
				Peak	2497.760	-38.55	≤-21.20	58.68	≤74	PASS
				Peak	2500.000	-41.46	≤-21.20	55.77	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-49.13	≤-41.20	48.10	≤54	PASS
				AV	2384.210	-48.64	≤-41.20	48.59	≤54	PASS
				AV	2390.000	-48.73	≤-41.20	48.50	≤54	PASS
				Peak	2310.000	-42.63	≤-21.20	54.60	≤74	PASS
				Peak	2380.325	-38.6	≤-21.20	58.63	≤74	PASS
				Peak	2390.000	-41.47	≤-21.20	55.76	≤74	PASS
		High	2480	AV	2483.500	-47.69	≤-41.20	49.54	≤54	PASS
				AV	2483.520	-47.69	≤-41.20	49.54	≤54	PASS
				AV	2500.000	-48.2	≤-41.20	49.03	≤54	PASS
				Peak	2483.500	-41.18	≤-21.20	56.05	≤74	PASS
				Peak	2493.680	-38.58	≤-21.20	58.65	≤74	PASS

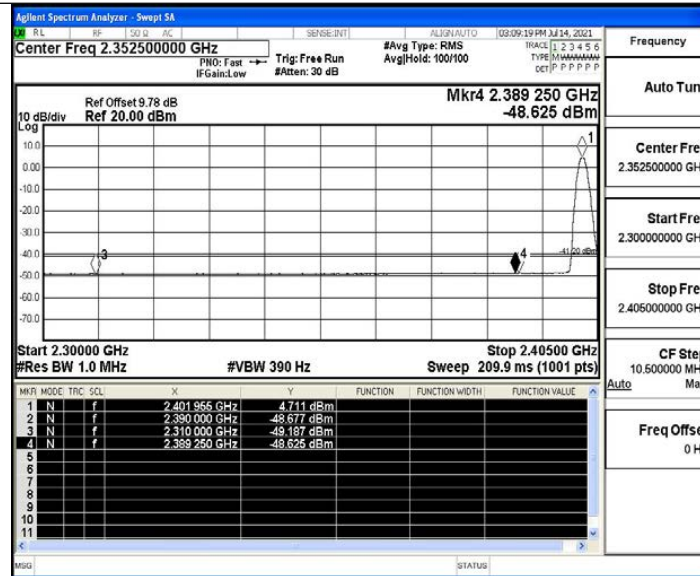


				Peak	2500.000	-40.92	≤-21.20	56.31	≤74	PASS
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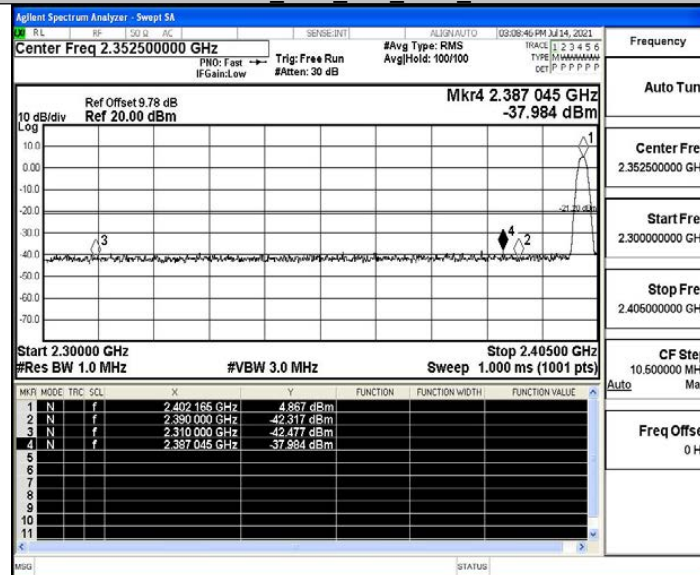
- Note:
1. The Antenna Gain is compensated in the graph.
 2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



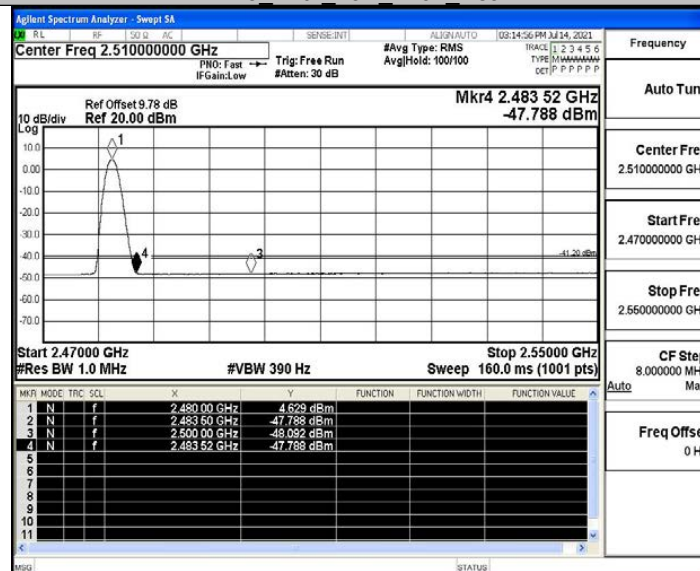
Test Graphs



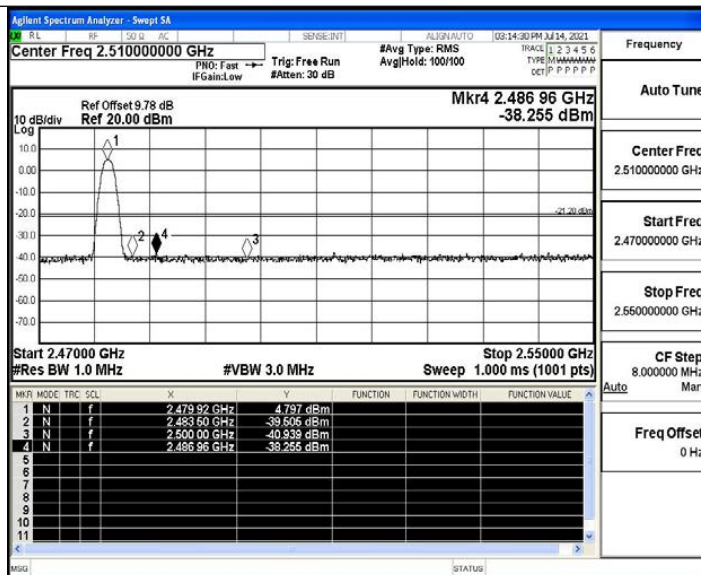
DH5_Ant1_Low_2402_AV



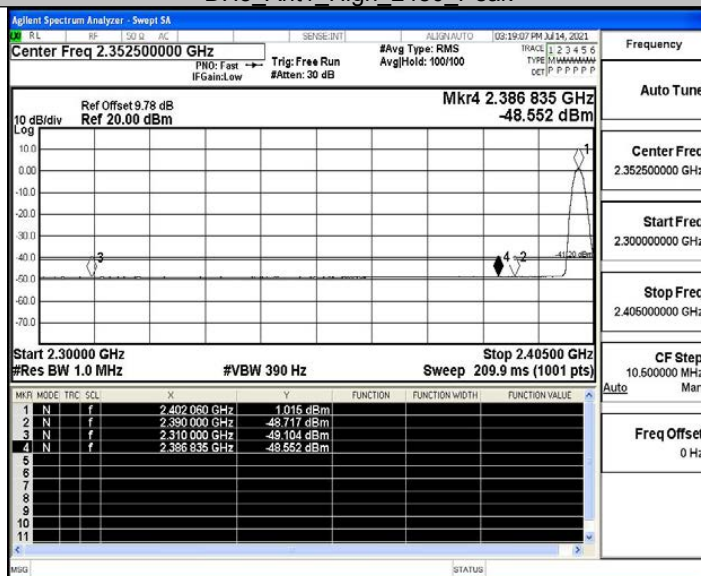
DH5_Ant1_Low_2402_Peak



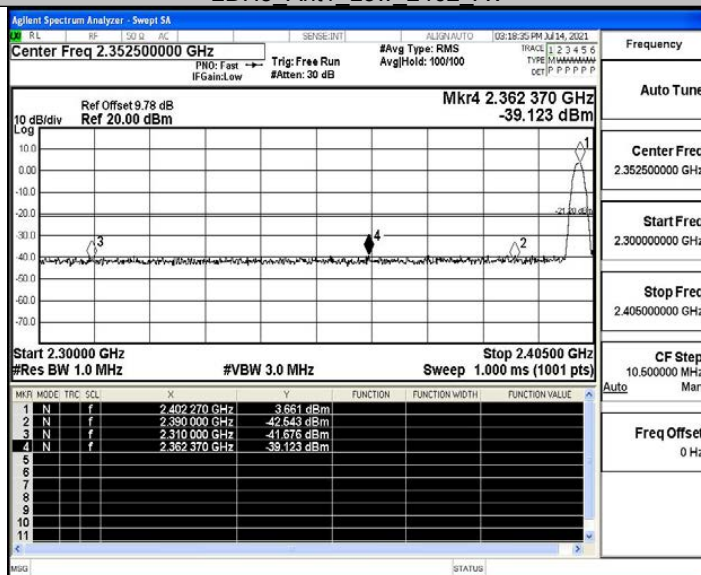
DH5_Ant1_High_2480_AV



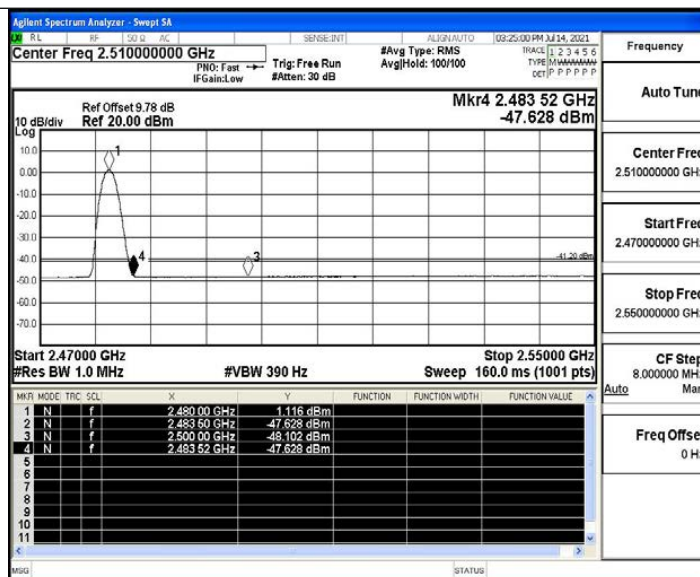
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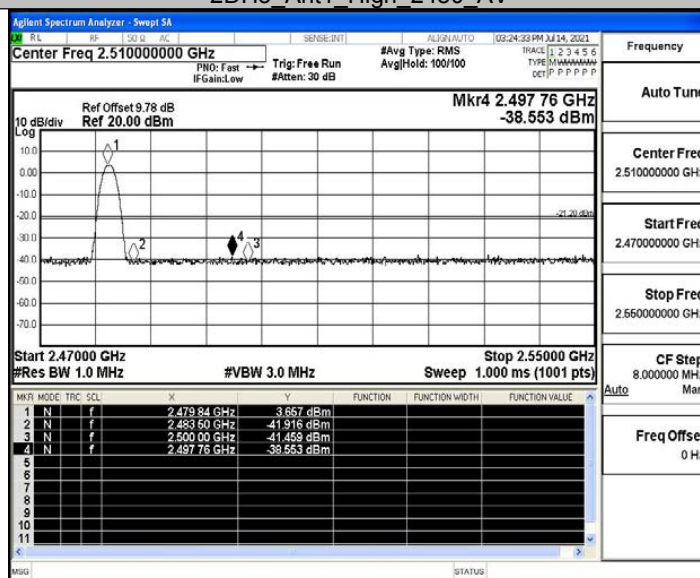
2DH5_Ant1_Low_2402_AV



2DH5_Ant1_Low_2402_Peak

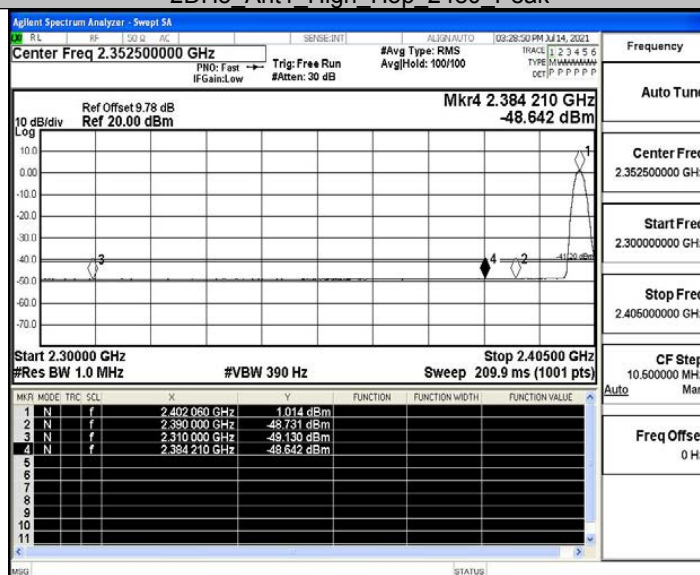


2DH5_Ant1_High_2480_AV

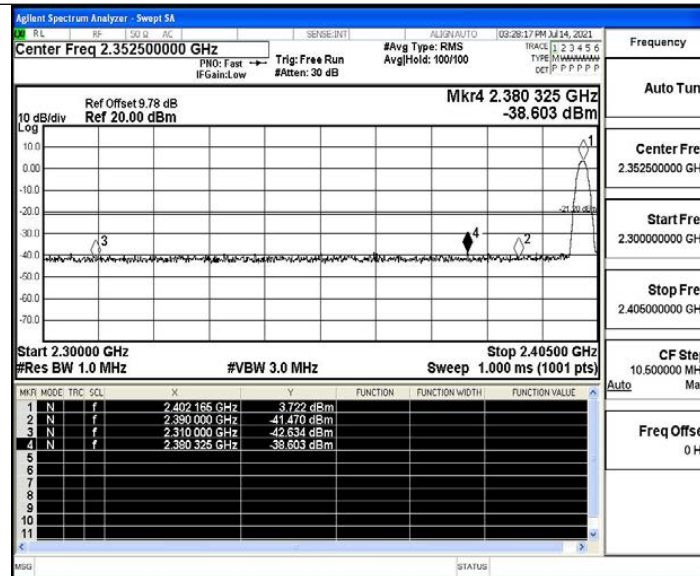


2DH5_Ant1_High_2480 Peak

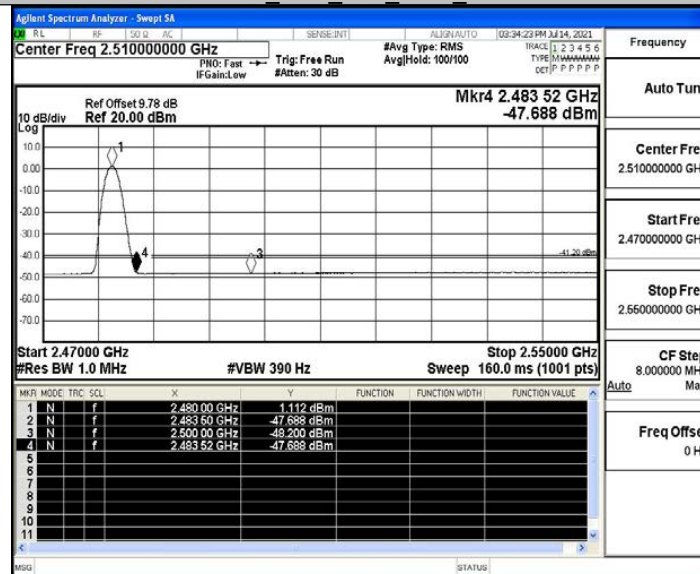
2DH5_Ant1_High_Hop_2480 Peak



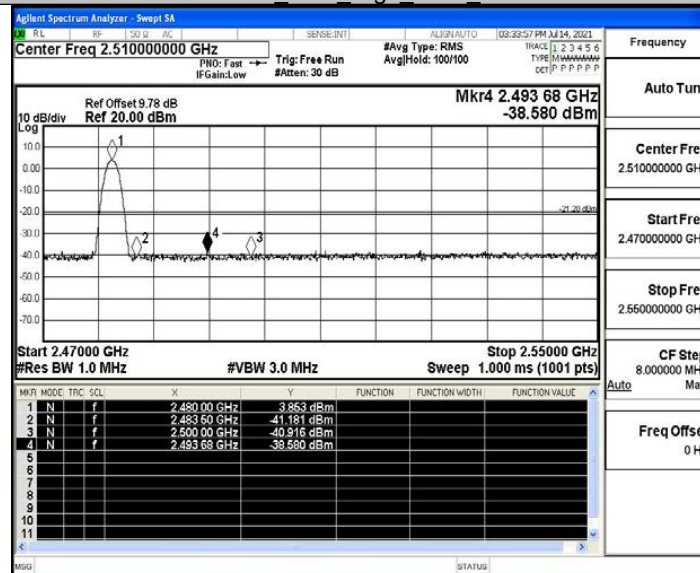
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak