

Case No. : <u>GTS20251128027-1-01</u>	
Ambient Condition: <u>25</u> °C, <u>45</u> %RH	
According Standard: ■Part15C	
Test Date: <u>2025.12.05</u>	Test Engineer: <u>Evan ouyang</u>

Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.933	2401.559	2402.492	---	---
		2441	0.927	2440.562	2441.489	---	---
		2480	0.945	2479.562	2480.507	---	---
2DH1	Ant1	2402	1.233	2401.388	2402.621	---	---
		2441	1.251	2440.388	2441.639	---	---
		2480	1.254	2479.388	2480.642	---	---
3DH1	Ant1	2402	1.209	2401.436	2402.645	---	---
		2441	1.227	2440.418	2441.645	---	---
		2480	1.230	2479.418	2480.648	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3D11_Ant1_2480

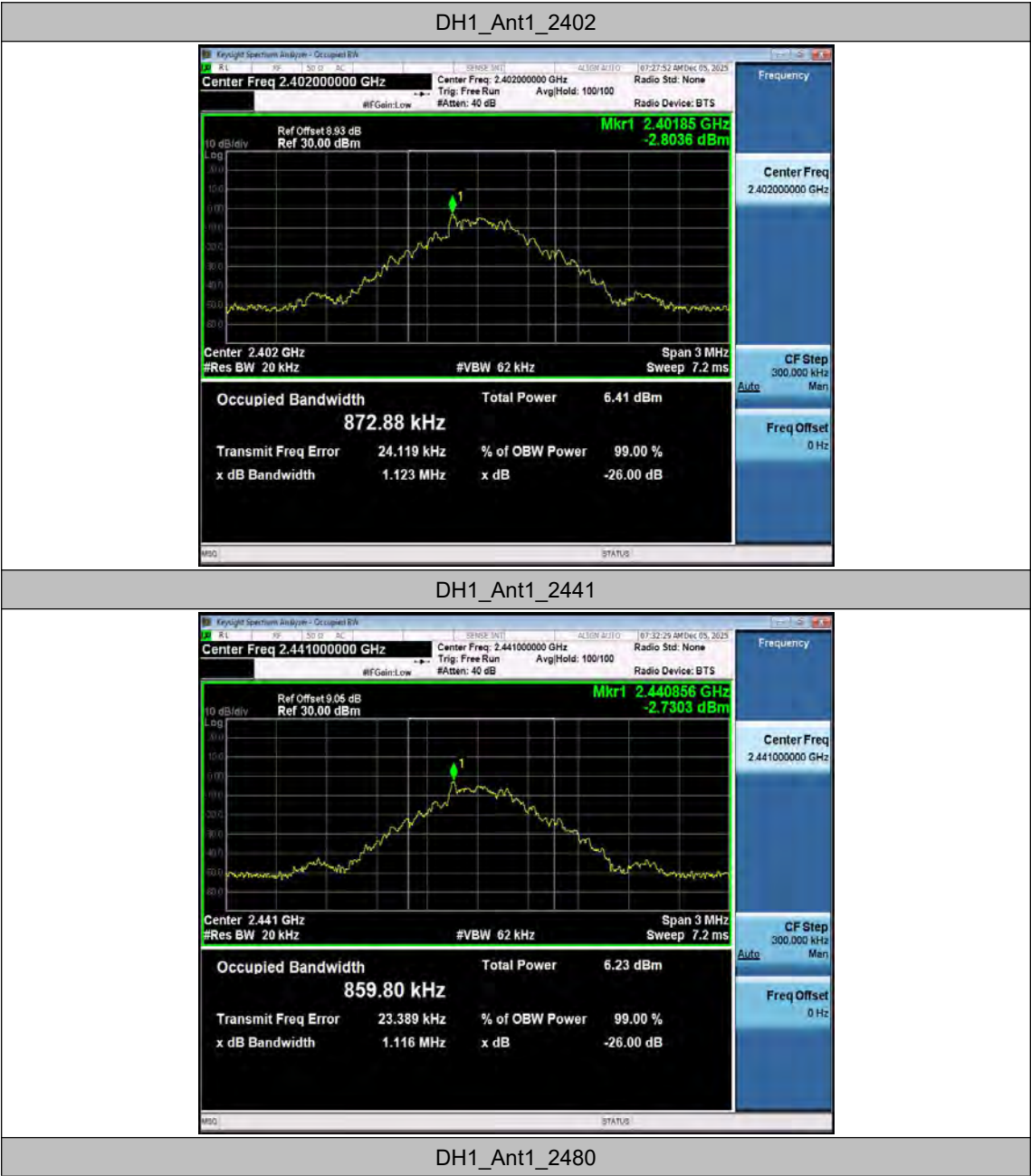


Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.87288	2401.5877	2402.4606	---	---
		2441	0.85980	2440.5935	2441.4533	---	---
		2480	0.86844	2479.5833	2480.4517	---	---
2DH1	Ant1	2402	1.1544	2401.4382	2402.5926	---	---
		2441	1.1552	2440.4380	2441.5932	---	---
		2480	1.1559	2479.4370	2480.5929	---	---
3DH1	Ant1	2402	1.1412	2401.4619	2402.6031	---	---
		2441	1.1419	2440.4617	2441.6036	---	---
		2480	1.1438	2479.4607	2480.6045	---	---

Test Graphs





2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.3: Maximum conducted output power

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	1.54	≤ 20.97	PASS
		2441	1.35	≤ 20.97	PASS
		2480	0.90	≤ 20.97	PASS
2DH1	Ant1	2402	2.99	≤ 20.97	PASS
		2441	3.74	≤ 20.97	PASS
		2480	0.19	≤ 20.97	PASS
3DH1	Ant1	2402	3.45	≤ 20.97	PASS
		2441	4.14	≤ 20.97	PASS
		2480	1.54	≤ 20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.826	≥ 0.630	PASS
		Hop_2441	1.178	≥ 0.630	PASS
		Hop_2480	0.842	≥ 0.630	PASS
2DH1	Ant1	Hop_2402	1.002	≥ 0.836	PASS
		Hop_2441	1.01	≥ 0.836	PASS
		Hop_2480	1.01	≥ 0.836	PASS
3DH1	Ant1	Hop_2402	1.004	≥ 0.820	PASS
		Hop_2441	0.994	≥ 0.820	PASS
		Hop_2480	1.006	≥ 0.820	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441



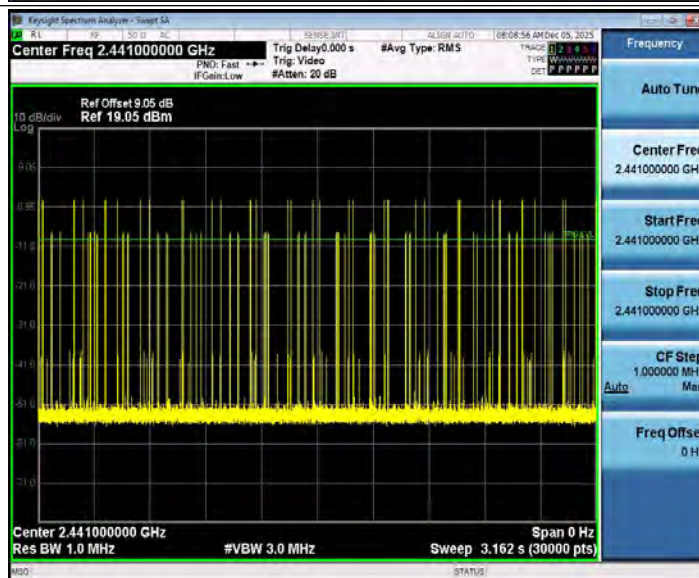
Appendix A.5: Time of occupancy

Test Result

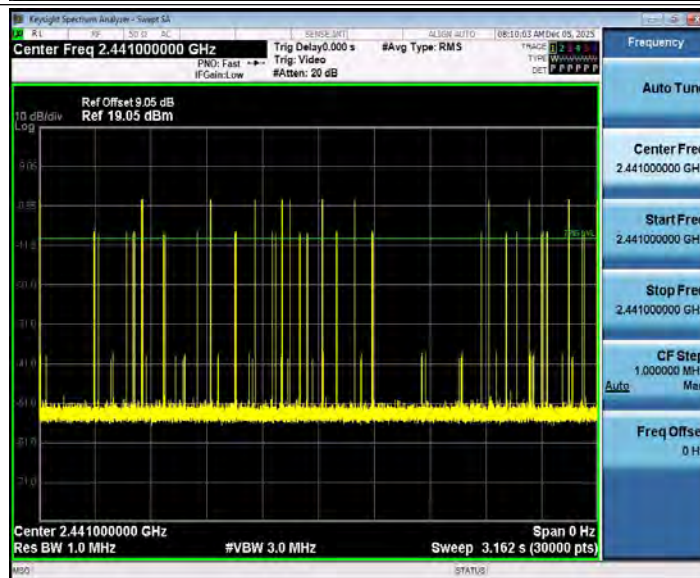
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	330	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.631	130	0.212	≤0.4	PASS
DH5	Ant1	Hop	2.878	110	0.317	≤0.4	PASS
2DH1	Ant1	Hop	0.380	330	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.637	210	0.344	≤0.4	PASS
2DH5	Ant1	Hop	2.883	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.375	320	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.620	170	0.275	≤0.4	PASS
3DH5	Ant1	Hop	2.878	130	0.374	≤0.4	PASS

Test Graphs

DH1_Ant1_Hop



DH3_Ant1_Hop

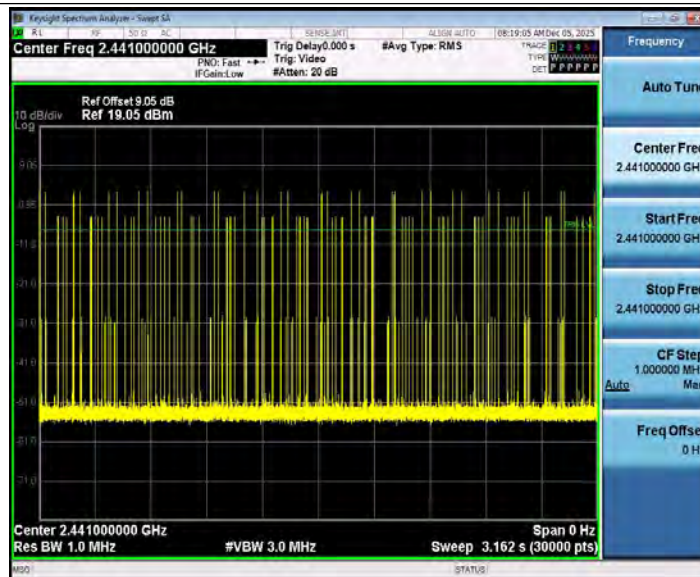
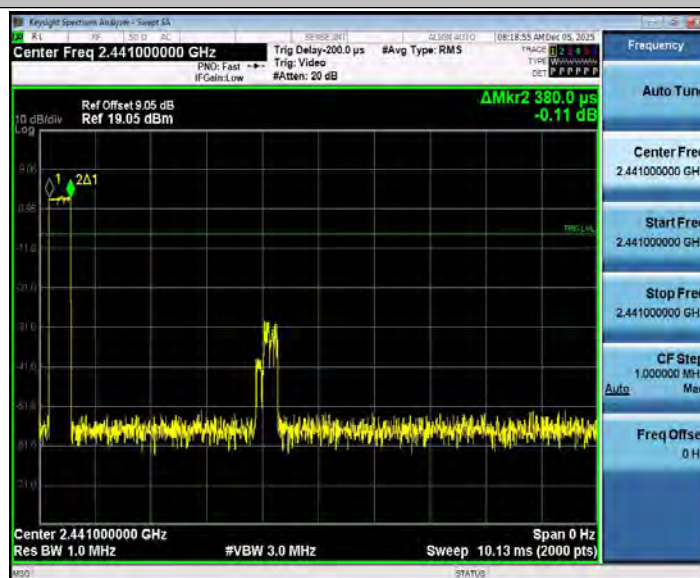


DH5_Ant1_Hop

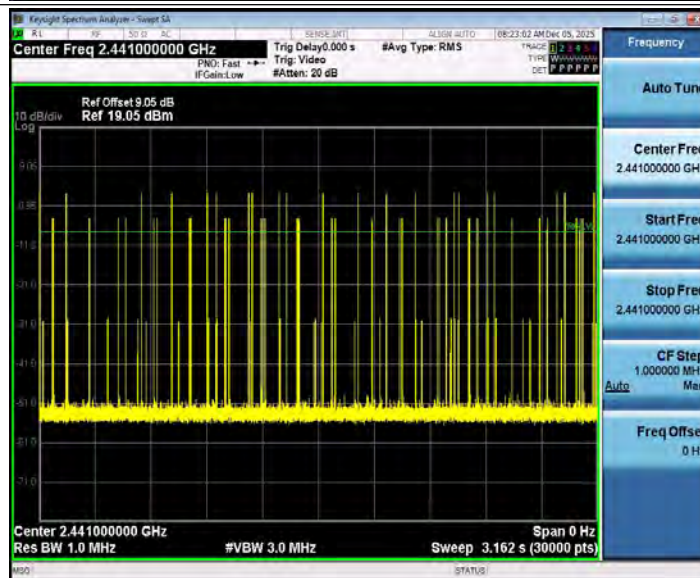
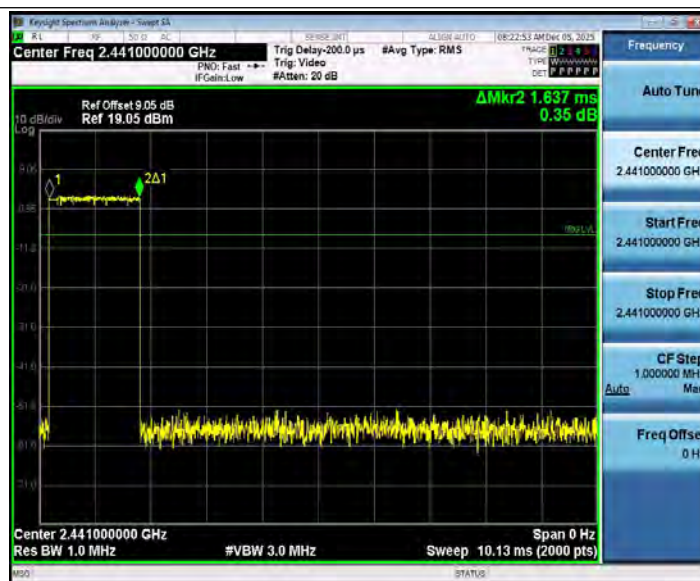




2DH1_Ant1_Hop

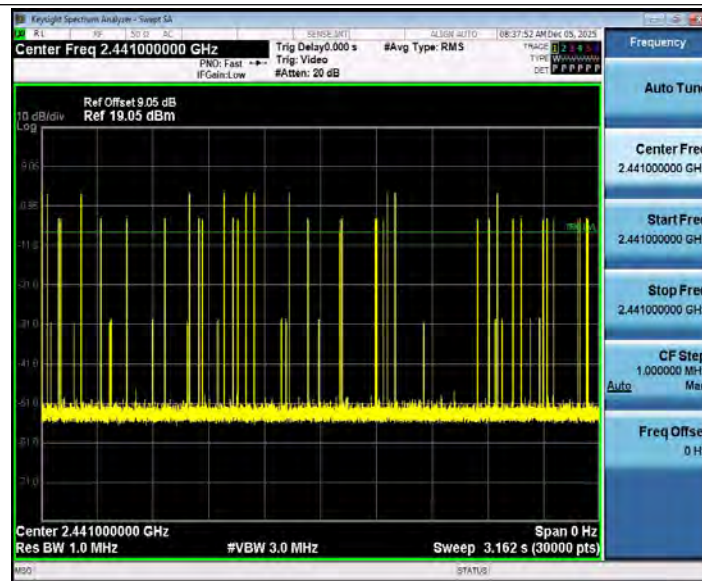


2DH3_Ant1_Hop

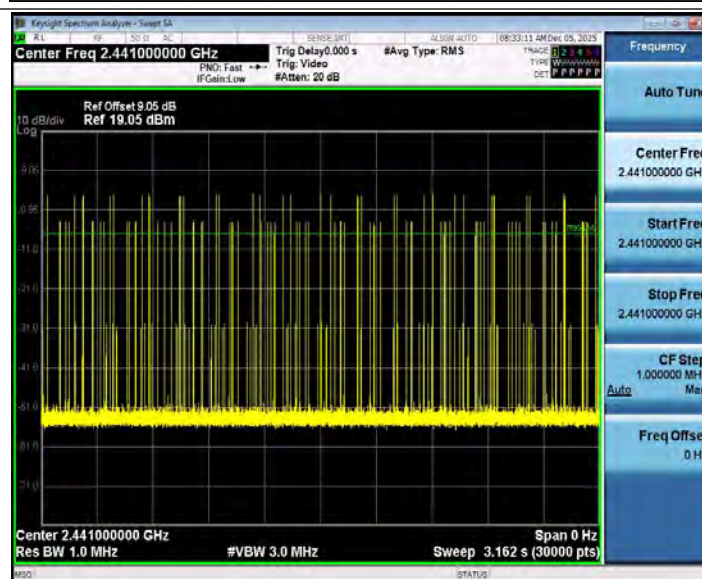
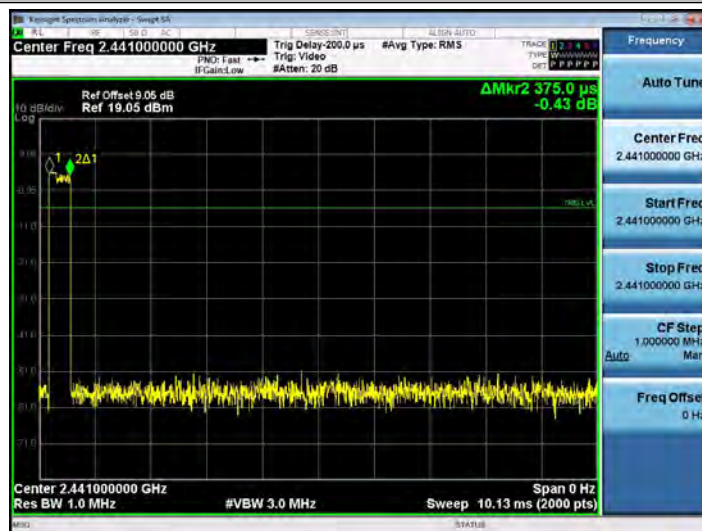


2DH5_Ant1_Hop

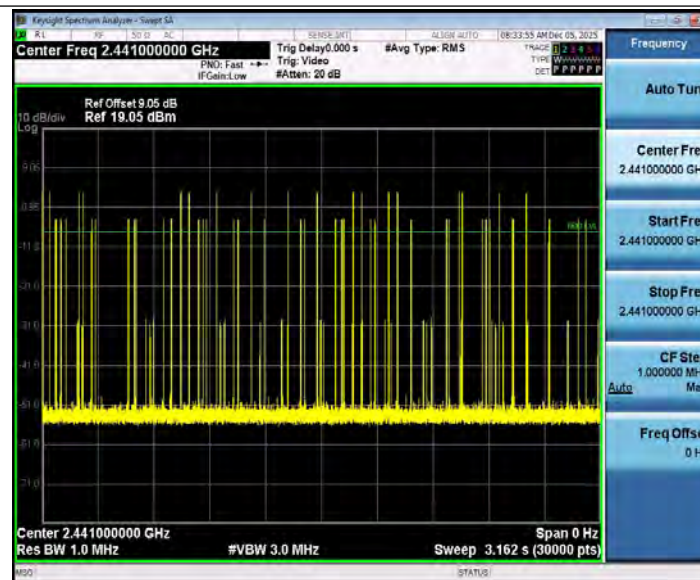




3DH1_Ant1_Hop

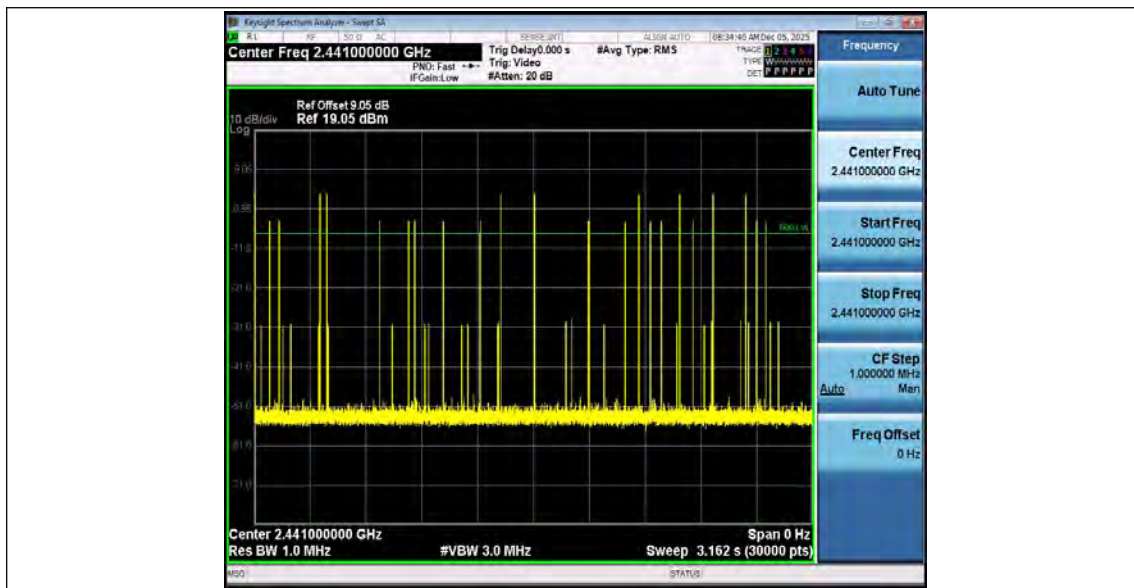


3DH3_Ant1_Hop



3DH5_Ant1_Hop





Appendix A.6: Number of hopping channels

Test Result

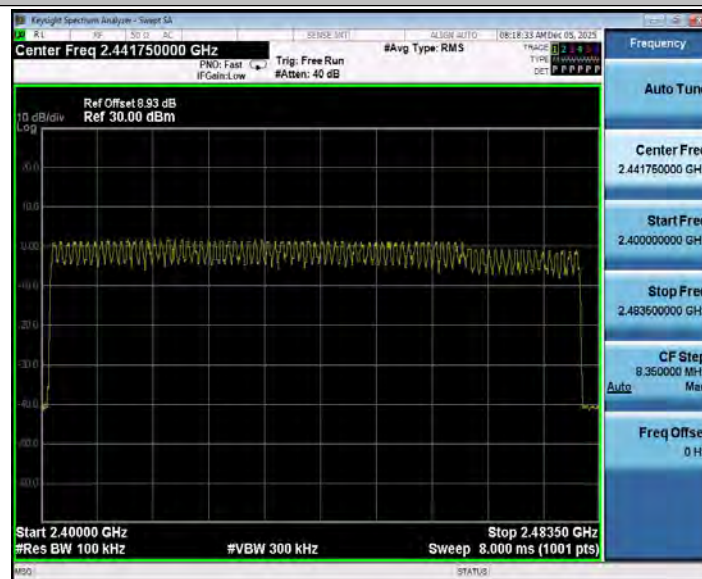
TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



Appendix A.7: Band edge measurements

Test Result

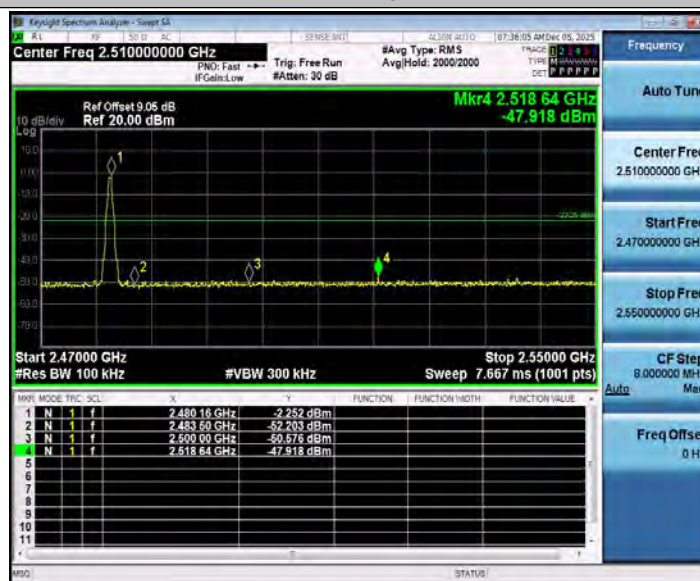
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	0.30	-49.54	≤ -19.7	PASS
		High	2480	-2.25	-47.92	≤ -22.25	PASS
		Low	Hop_2402	0.14	-49.03	≤ -19.86	PASS
		High	Hop_2480	-1.83	-48.73	≤ -21.83	PASS
2DH1	Ant1	Low	2402	0.69	-49.15	≤ -19.32	PASS
		High	2480	-1.77	-48.71	≤ -21.77	PASS
		Low	Hop_2402	0.36	-49.22	≤ -19.65	PASS
		High	Hop_2480	-0.82	-48.58	≤ -20.82	PASS
3DH1	Ant1	Low	2402	0.63	-49.49	≤ -19.38	PASS
		High	2480	-1.35	-47.84	≤ -21.35	PASS
		Low	Hop_2402	1.20	-49.56	≤ -18.8	PASS
		High	Hop_2480	-0.95	-48.64	≤ -20.95	PASS

Test Graphs

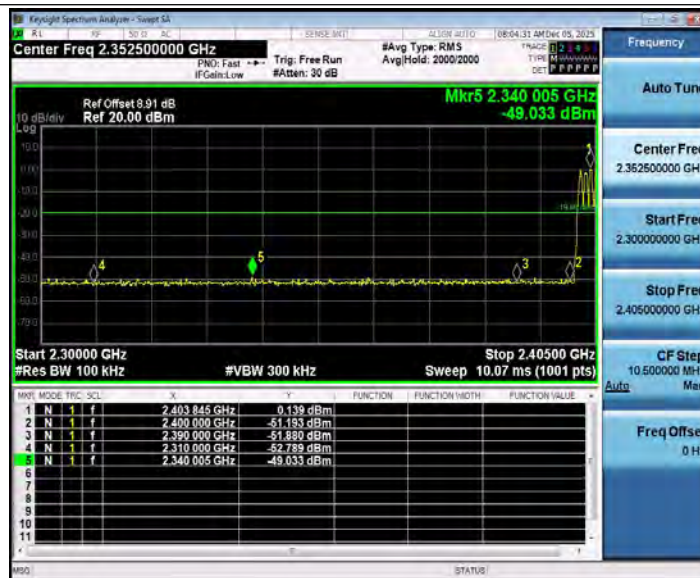
DH1_Ant1_Low_2402



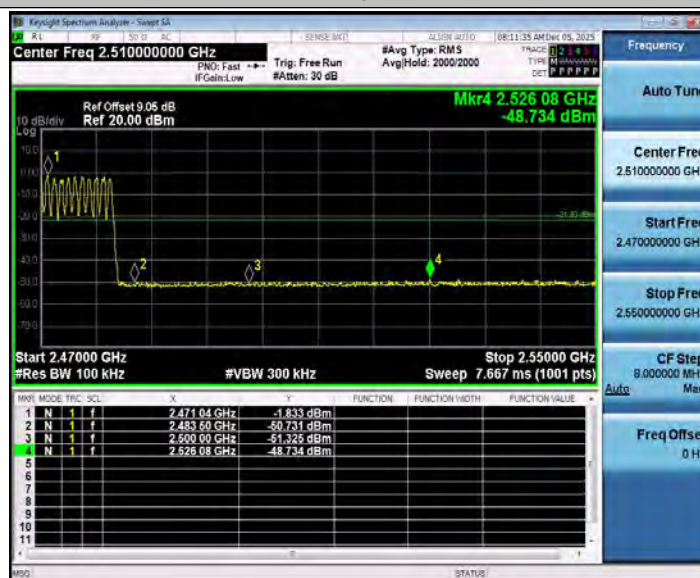
DH1_Ant1_High_2480



DH1_Ant1_Low_Hop_2402



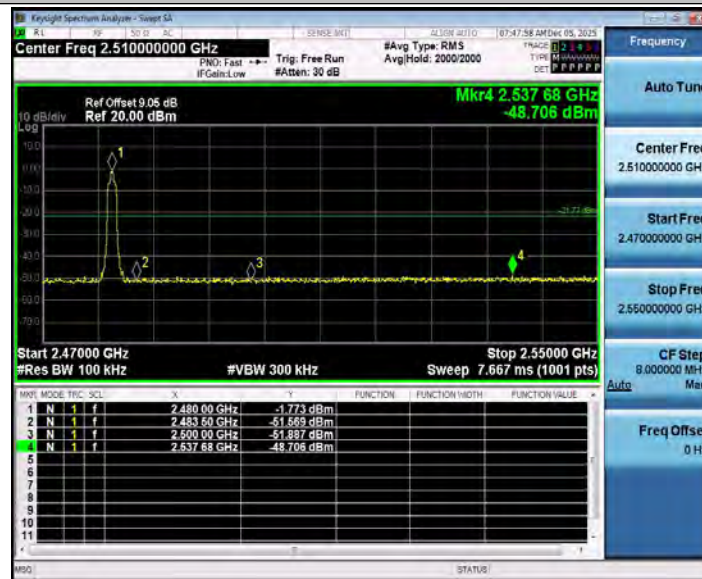
DH1_Ant1_High_Hop_2480



2DH1_Ant1_Low_2402



2DH1_Ant1_High_2480



2DH1_Ant1_Low_Hop_2402



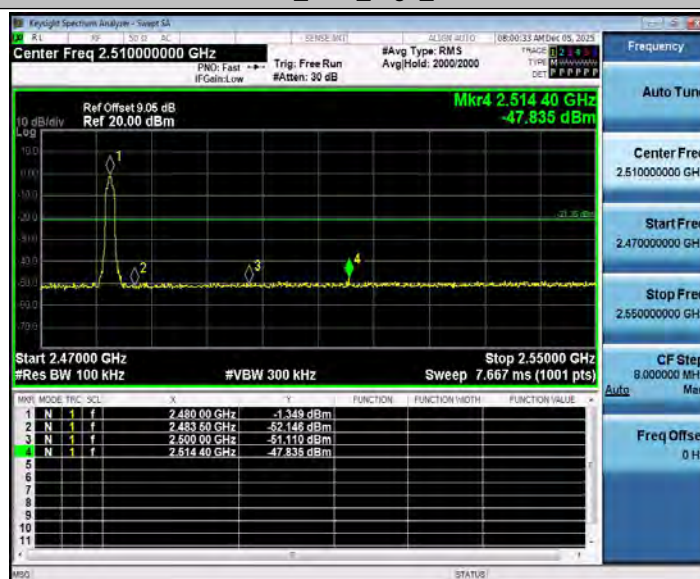
2DH1_Ant1_High_Hop_2480



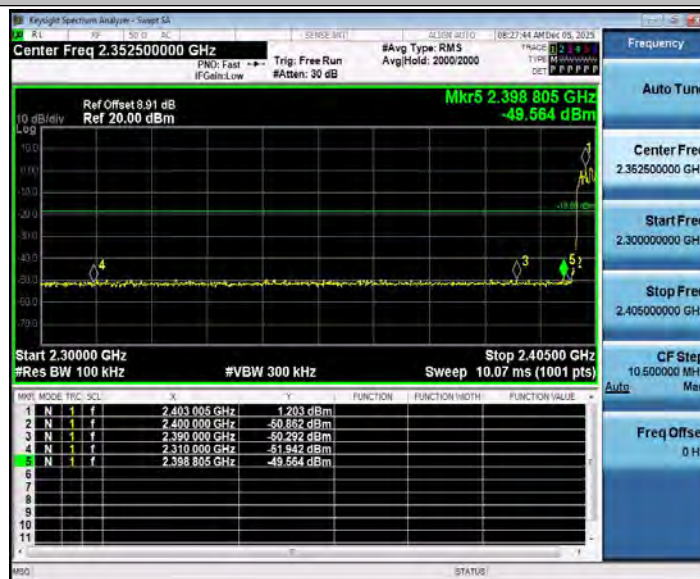
3DH1_Ant1_Low_2402



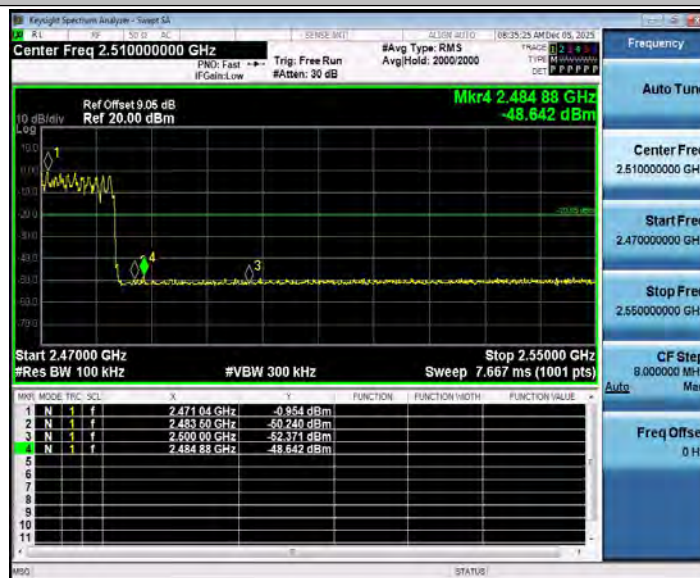
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

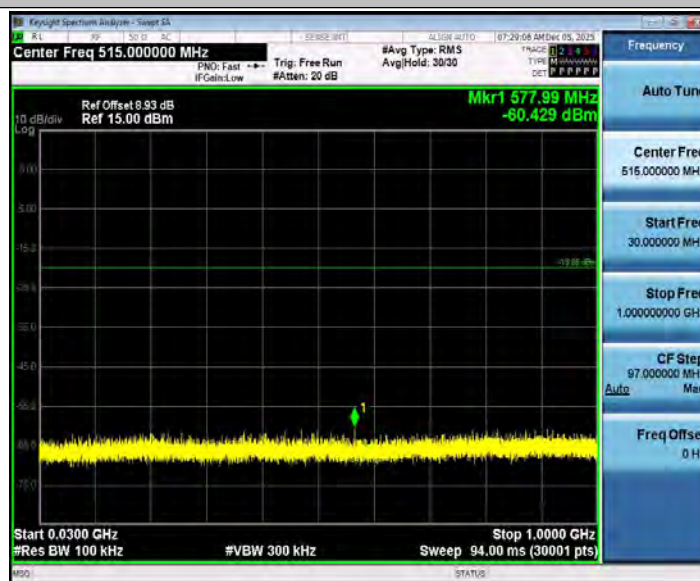
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	0.15	0.15	---	PASS
			30~1000	0.15	-60.43	≤-19.85	PASS
			1000~26500	0.15	-47.48	≤-19.85	PASS
		2441	Reference	-0.06	-0.06	---	PASS
			30~1000	-0.06	-60.43	≤-20.06	PASS
			1000~26500	-0.06	-47.23	≤-20.06	PASS
		2480	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-60.39	≤-22.34	PASS
			1000~26500	-2.34	-47.24	≤-22.34	PASS
2DH1	Ant1	2402	Reference	0.51	0.51	---	PASS
			30~1000	0.51	-60.55	≤-19.49	PASS
			1000~26500	0.51	-47.52	≤-19.49	PASS
		2441	Reference	1.21	1.21	---	PASS
			30~1000	1.21	-60.55	≤-18.79	PASS
			1000~26500	1.21	-47.57	≤-18.79	PASS
		2480	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-60.7	≤-21.89	PASS
			1000~26500	-1.89	-47.74	≤-21.89	PASS
3DH1	Ant1	2402	Reference	0.47	0.47	---	PASS
			30~1000	0.47	-61.03	≤-19.53	PASS
			1000~26500	0.47	-46.99	≤-19.53	PASS
		2441	Reference	1.18	1.18	---	PASS
			30~1000	1.18	-60.4	≤-18.82	PASS
			1000~26500	1.18	-48.04	≤-18.82	PASS
		2480	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-60.39	≤-21.46	PASS
			1000~26500	-1.46	-47.18	≤-21.46	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



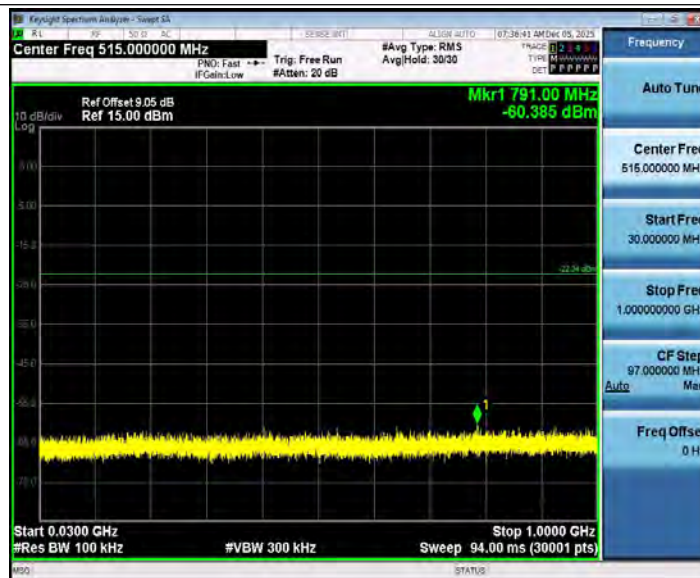
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



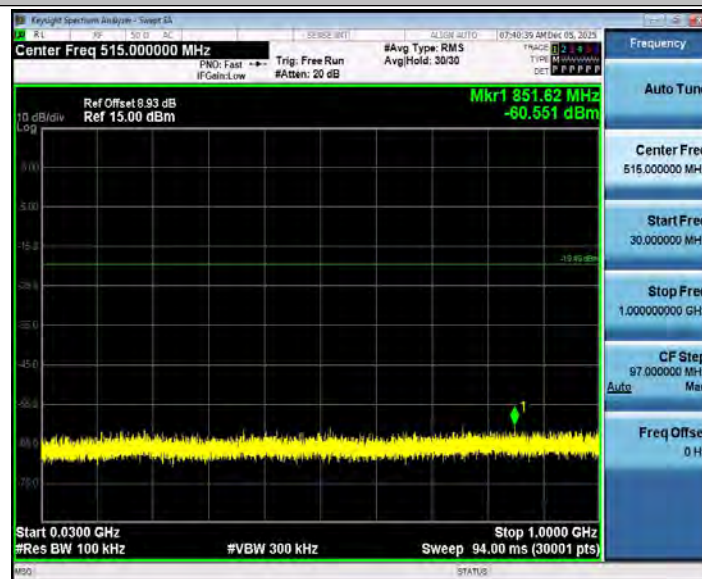
DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



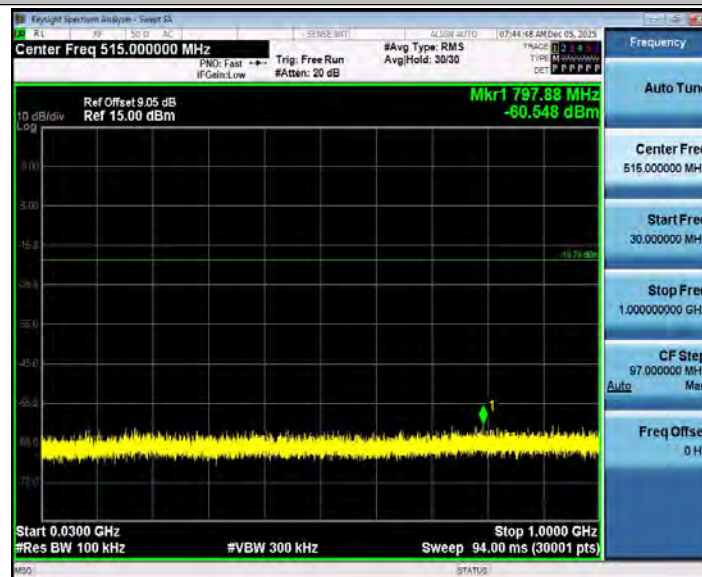
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



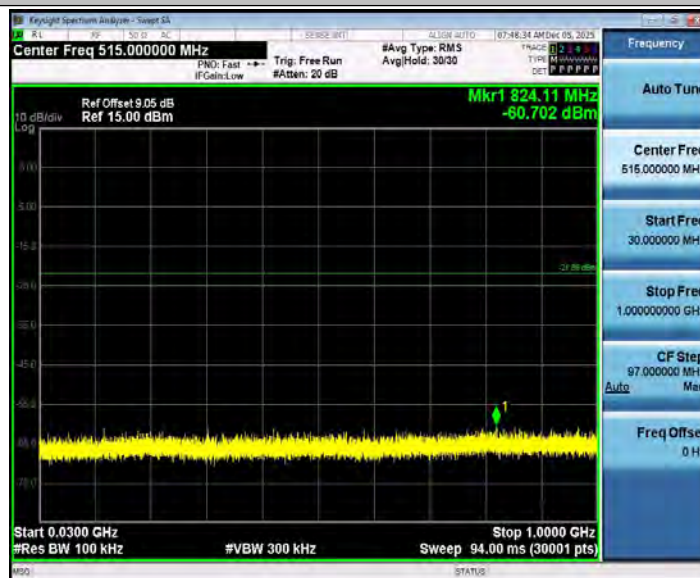
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



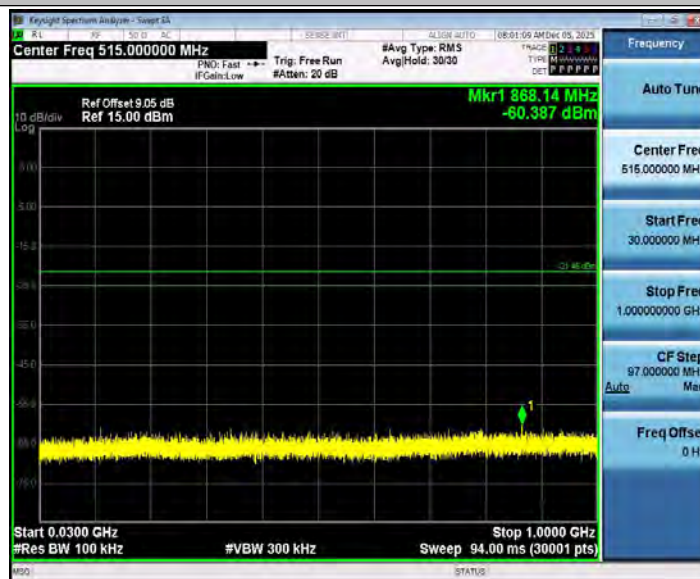
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500



Appendix A.9: Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.3	≤-41.20	45.90	≤54	PASS
				AV	2383.265	-48.81	≤-41.20	46.39	≤54	PASS
				AV	2390.000	-49.01	≤-41.20	46.19	≤54	PASS
				Peak	2310.000	-42.03	≤-21.20	53.17	≤74	PASS
				Peak	2380.535	-38.88	≤-21.20	56.32	≤74	PASS
				Peak	2390.000	-41.18	≤-21.20	54.02	≤74	PASS
		High	2480	AV	2483.500	-48.77	≤-41.20	46.43	≤54	PASS
				AV	2499.600	-48.52	≤-41.20	46.68	≤54	PASS
				AV	2500.000	-48.77	≤-41.20	46.43	≤54	PASS
				Peak	2483.500	-41.51	≤-21.20	53.69	≤74	PASS
				Peak	2495.760	-37.12	≤-21.20	58.08	≤74	PASS
				Peak	2500.000	-41.62	≤-21.20	53.58	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.35	≤-41.20	45.85	≤54	PASS
				AV	2389.985	-48.81	≤-41.20	46.39	≤54	PASS
				AV	2390.000	-48.81	≤-41.20	46.39	≤54	PASS
				Peak	2310.000	-41.06	≤-21.20	54.14	≤74	PASS
				Peak	2379.905	-38.81	≤-21.20	56.39	≤74	PASS
				Peak	2390.000	-39.7	≤-21.20	55.50	≤74	PASS
		High	2480	AV	2483.500	-48.73	≤-41.20	46.47	≤54	PASS
				AV	2499.280	-48.63	≤-41.20	46.57	≤54	PASS
				AV	2500.000	-48.78	≤-41.20	46.42	≤54	PASS
				Peak	2483.500	-41.19	≤-21.20	54.01	≤74	PASS
				Peak	2485.280	-38.48	≤-21.20	56.72	≤74	PASS
				Peak	2500.000	-40.94	≤-21.20	54.26	≤74	PASS
3DH1	Ant1	Low	2402	AV	2310.000	-49.41	≤-41.20	45.79	≤54	PASS
				AV	2387.570	-48.79	≤-41.20	46.41	≤54	PASS
				AV	2390.000	-49.06	≤-41.20	46.14	≤54	PASS
				Peak	2310.000	-39.79	≤-21.20	55.41	≤74	PASS
				Peak	2332.970	-39.2	≤-21.20	56.00	≤74	PASS
				Peak	2390.000	-40.46	≤-21.20	54.74	≤74	PASS
		High	2480	AV	2483.500	-48.77	≤-41.20	46.43	≤54	PASS
				AV	2498.880	-48.58	≤-41.20	46.62	≤54	PASS
				AV	2500.000	-48.79	≤-41.20	46.41	≤54	PASS
				Peak	2483.500	-40.22	≤-21.20	54.98	≤74	PASS
				Peak	2494.800	-38.81	≤-21.20	56.39	≤74	PASS
				Peak	2500.000	-41.45	≤-21.20	53.75	≤74	PASS

Note:

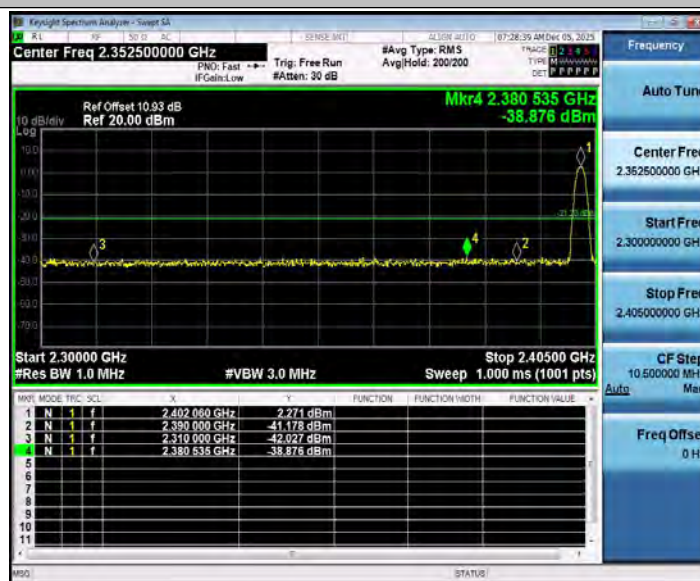
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

DH1_Ant1_Low_2402_AV



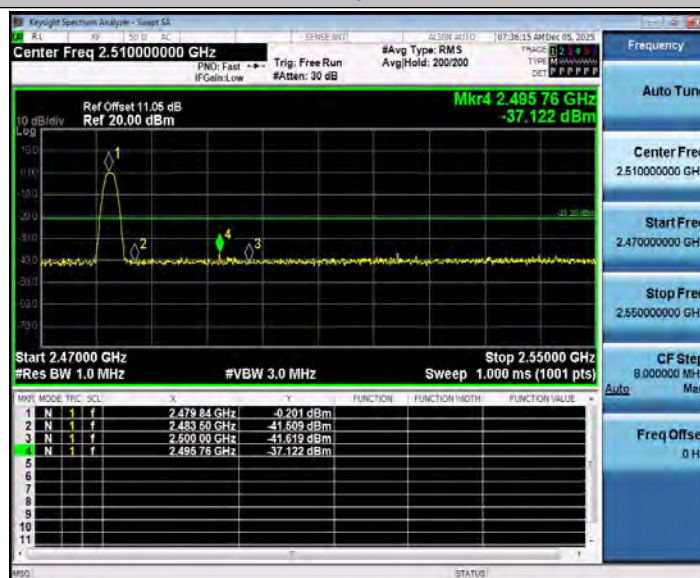
DH1_Ant1_Low_2402_Peak



DH1_Ant1_High_2480_AV



DH1_Ant1_High_2480_Peak



2DH1_Ant1_Low_2402_AV



2DH1_Ant1_Low_2402_Peak



2DH1_Ant1_High_2480_AV



2DH1_Ant1_High_2480_Peak



3DH1_Ant1_Low_2402_AV



3DH1_Ant1_Low_2402_Peak



3DH1_Ant1_High_2480_AV



3DH1_Ant1_High_2480_Peak

