

Case No. : <u>CTA24072303304</u>	
Ambient Condition: <u>24</u> °C, <u>52</u> %RH,	
Test Date: <u>2024.7.5</u>	Test Engineer: <u>Lushan Kong</u>

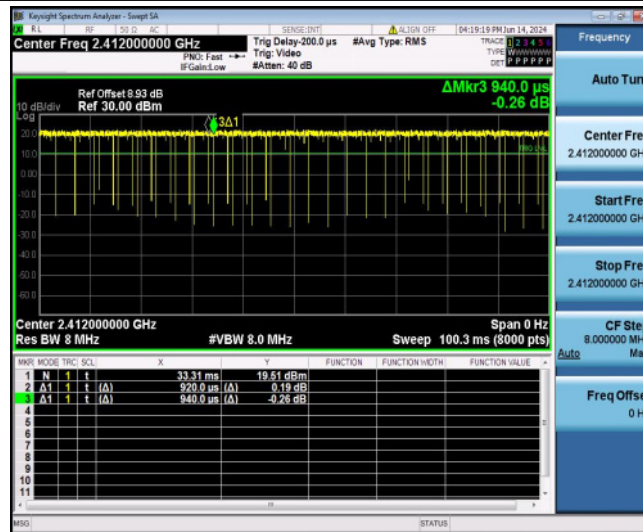
Appendix C.1: Duty Cycle

Test Result

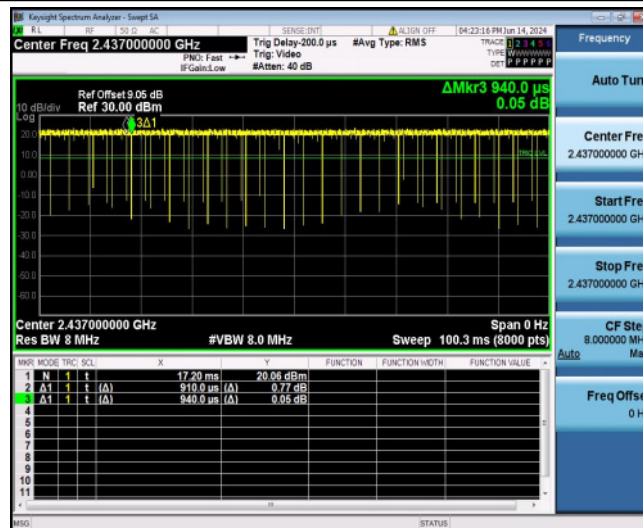
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11B	Ant1	2412	0.92	0.94	97.87	0.09	1.09
		2437	0.91	0.94	96.81	0.14	1.10
		2462	0.92	0.94	97.87	0.09	1.09
11G	Ant1	2412	3.60	3.77	95.49	0.20	0.28
		2437	3.60	3.77	95.49	0.20	0.28
		2462	3.60	3.77	95.49	0.20	0.28
11N20SISO	Ant1	2412	1.84	1.94	94.85	0.23	0.54
		2437	1.84	1.94	94.85	0.23	0.54
		2462	1.84	1.94	94.85	0.23	0.54
11AX20SISO	Ant1	2412	0.51	0.54	94.44	0.25	1.96
		2437	0.51	0.53	96.23	0.17	1.96
		2462	0.52	0.54	96.30	0.16	1.92

Test Graphs

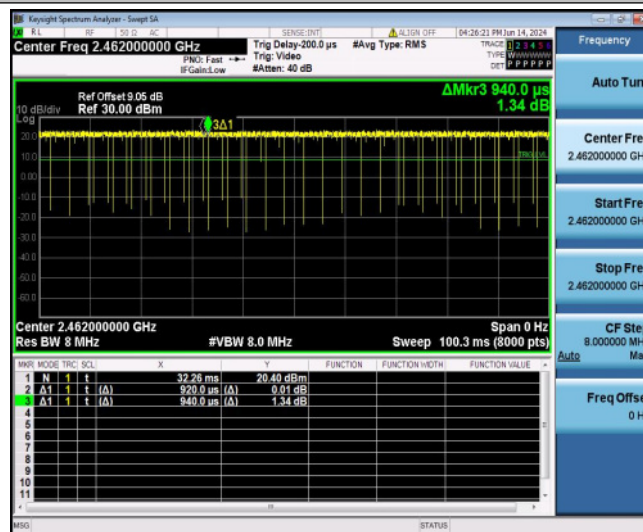
11B_Ant1_2412



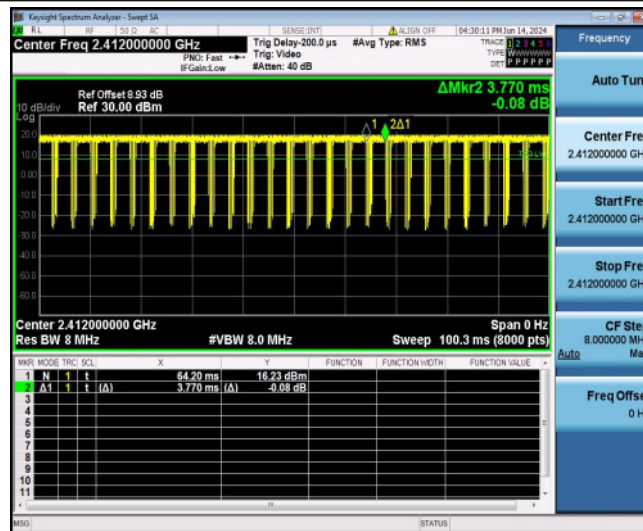
11B_Ant1_2437



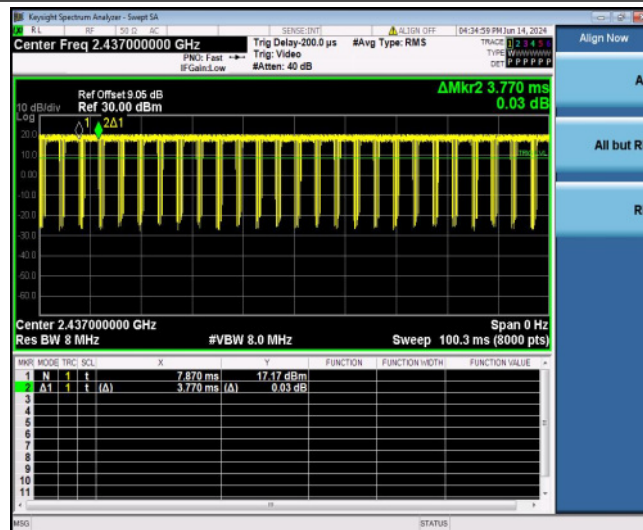
11B_Ant1_2462



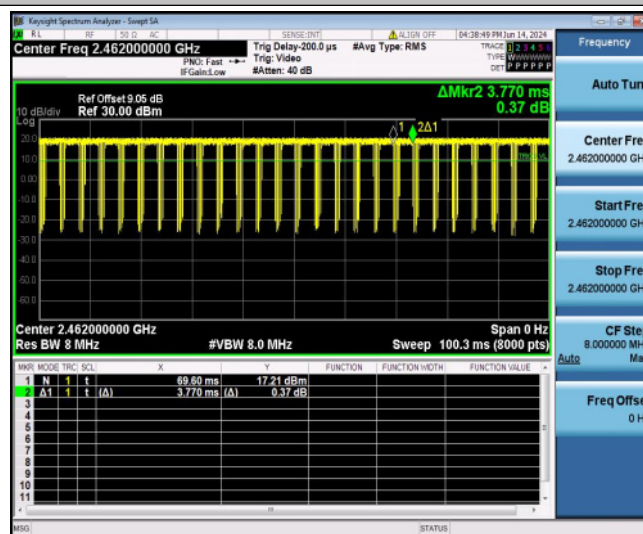
11G_Ant1_2412



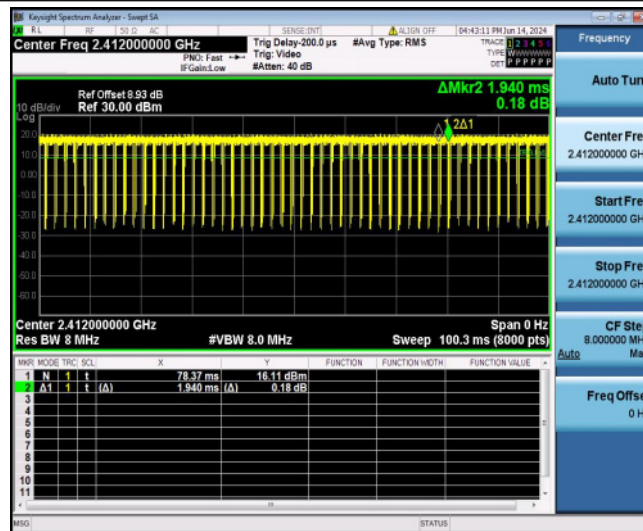
11G_Ant1_2437



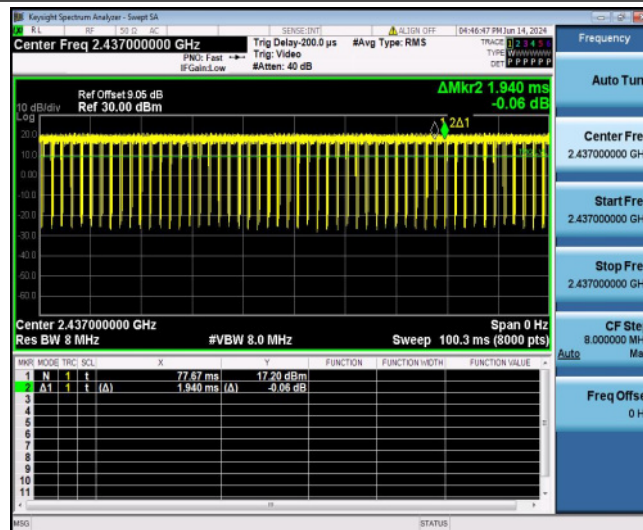
11G_Ant1_2462



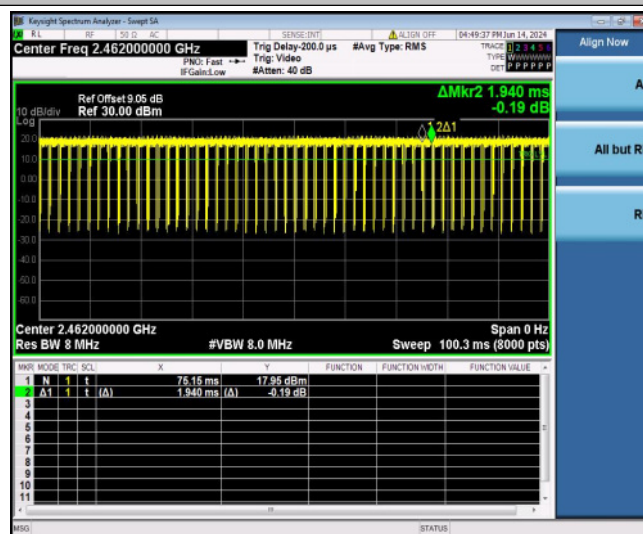
11N20SISO_Ant1_2412



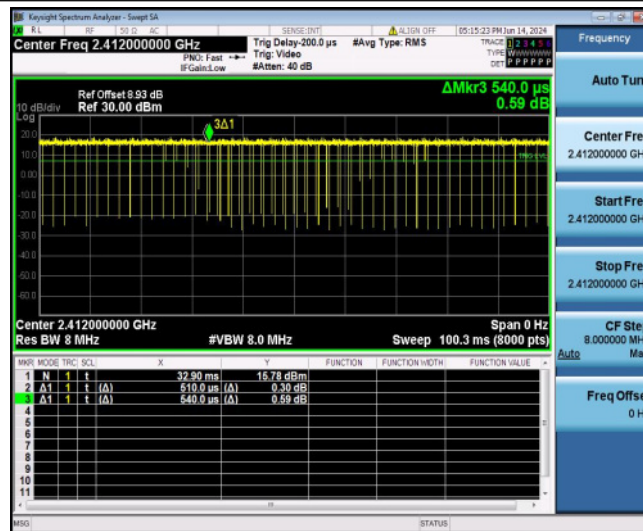
11N20SISO_Ant1_2437



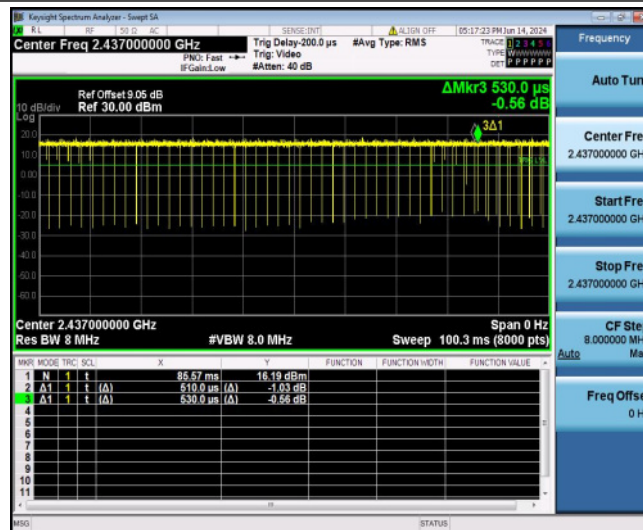
11N20SISO_Ant1_2462



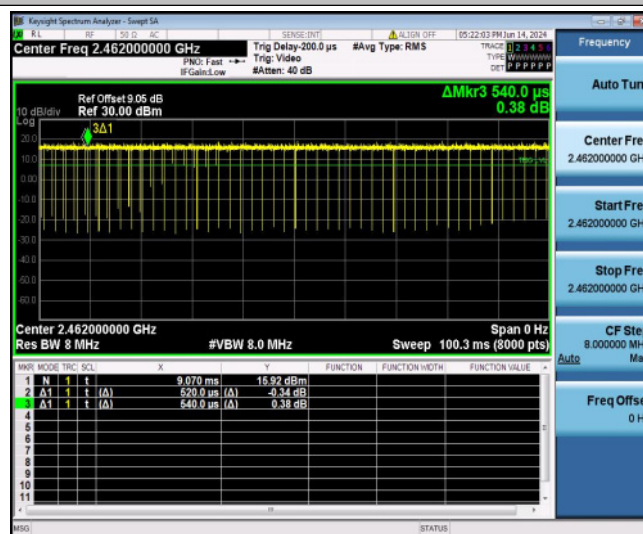
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



Appendix C.2: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.320	2406.600	2416.920	0.5	PASS
		2437	10.400	2431.600	2442.000	0.5	PASS
		2462	11.000	2456.600	2467.600	0.5	PASS
11G	Ant1	2412	16.360	2403.840	2420.200	0.5	PASS
		2437	16.360	2428.840	2445.200	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.720	2403.120	2420.840	0.5	PASS
		2437	17.720	2428.120	2445.840	0.5	PASS
		2462	17.720	2453.120	2470.840	0.5	PASS
11AX20SISO	Ant1	2412	18.880	2402.560	2421.440	0.5	PASS
		2437	18.880	2427.520	2446.400	0.5	PASS
		2462	18.800	2452.560	2471.360	0.5	PASS

Test Graphs

11B_Ant1_2412



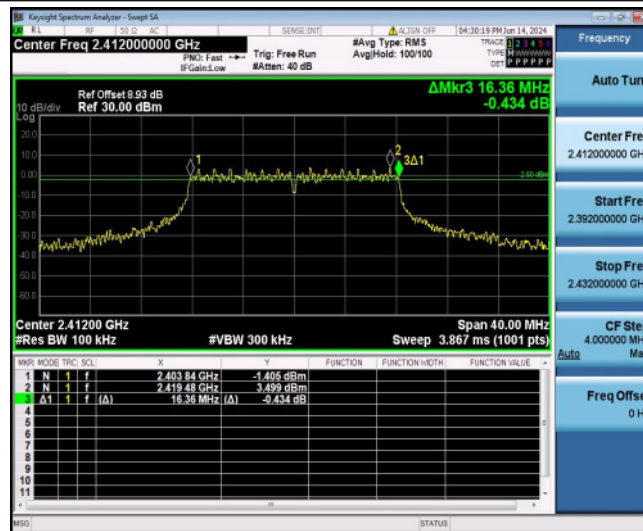
11B_Ant1_2437



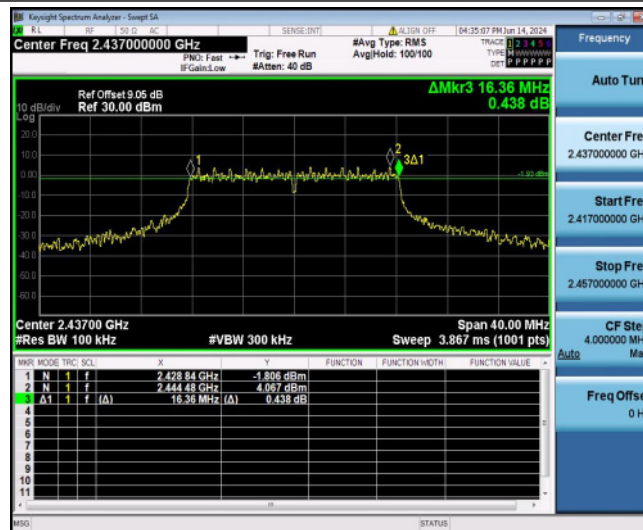
11B_Ant1_2462



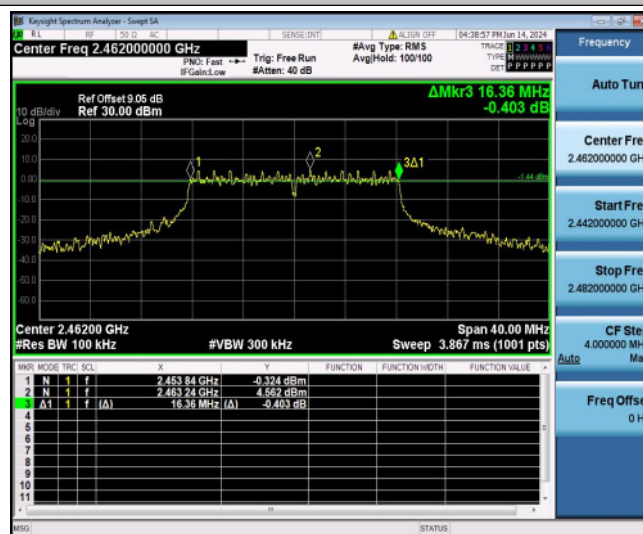
11G_Ant1_2412



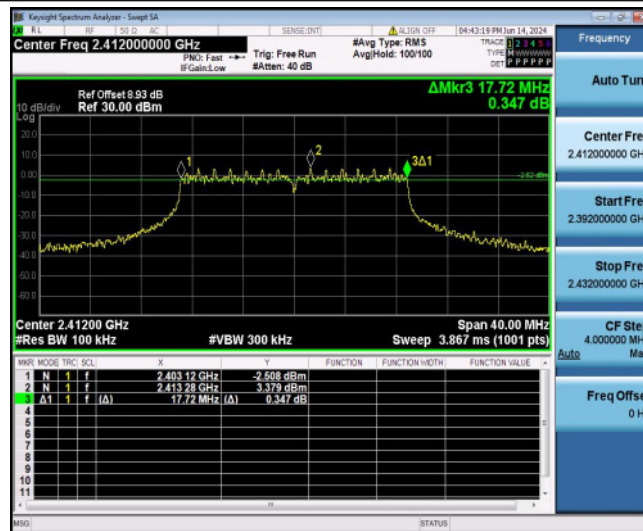
11G_Ant1_2437



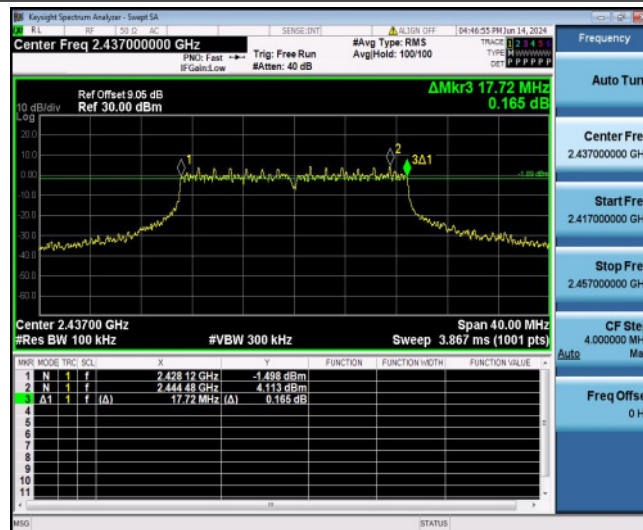
11G_Ant1_2462



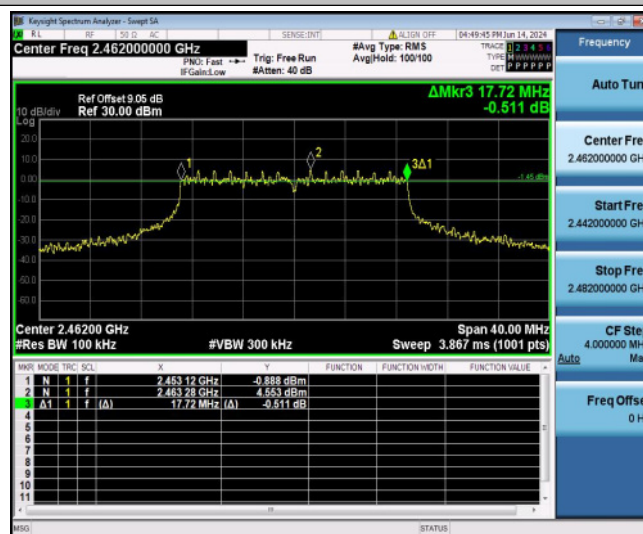
11N20SISO_Ant1_2412



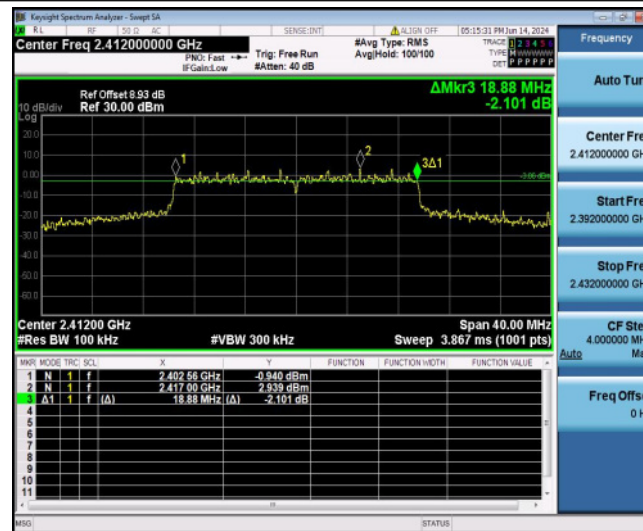
11N20SISO_Ant1_2437



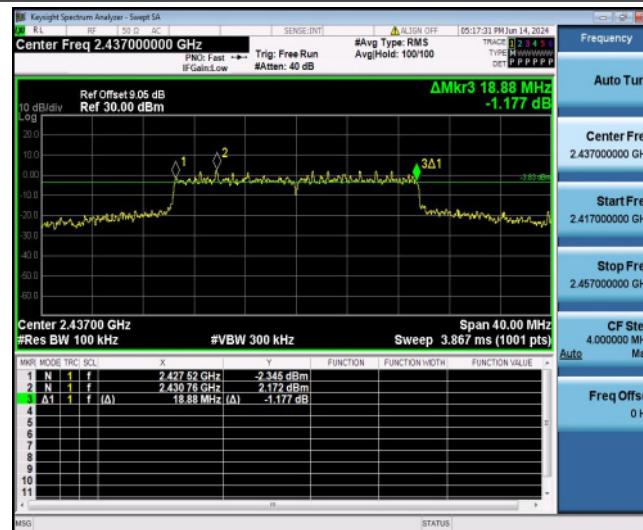
11N20SISO_Ant1_2462



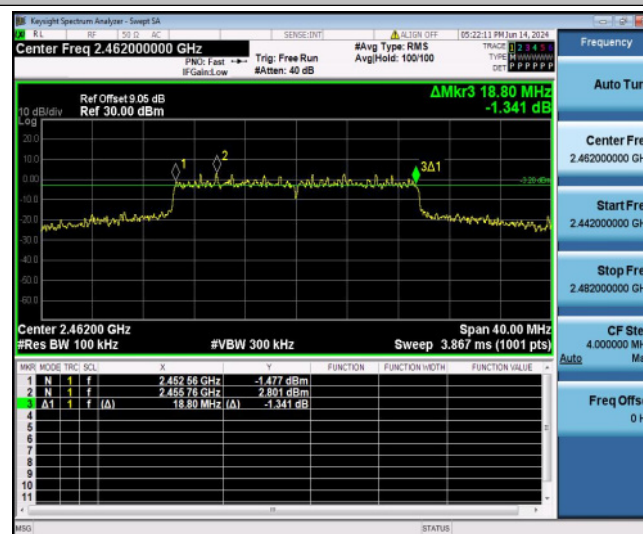
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



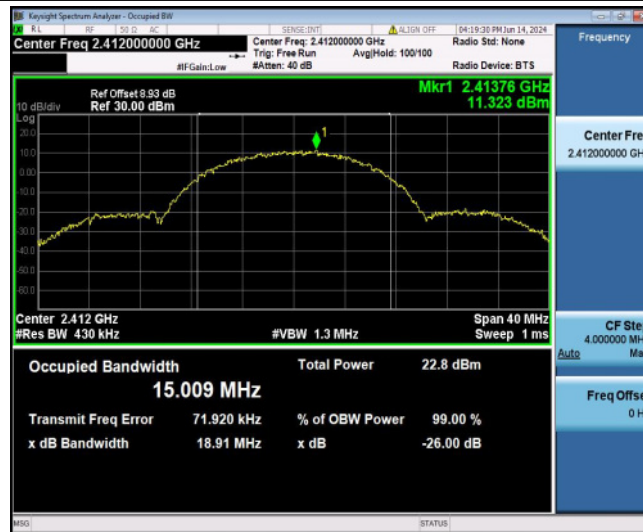
Appendix C.3: Occupied Channel Bandwidth

Test Result

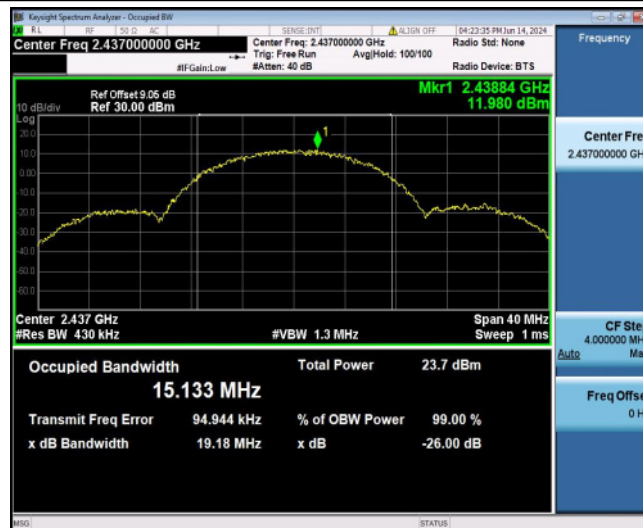
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	15.009	2404.5674	2419.5764
		2437	15.133	2429.5284	2444.6614
		2462	15.155	2454.4755	2469.6305
11G	Ant1	2412	17.072	2403.3941	2420.4661
		2437	17.057	2428.4237	2445.4807
		2462	17.111	2453.3499	2470.4609
11N20SISO	Ant1	2412	18.211	2402.8399	2421.0509
		2437	18.284	2427.8307	2446.1147
		2462	18.239	2452.8416	2471.0806
11AX20SISO	Ant1	2412	22.720	2401.0683	2423.7883
		2437	24.482	2425.3463	2449.8283
		2462	24.979	2449.5880	2474.5670

Test Graphs

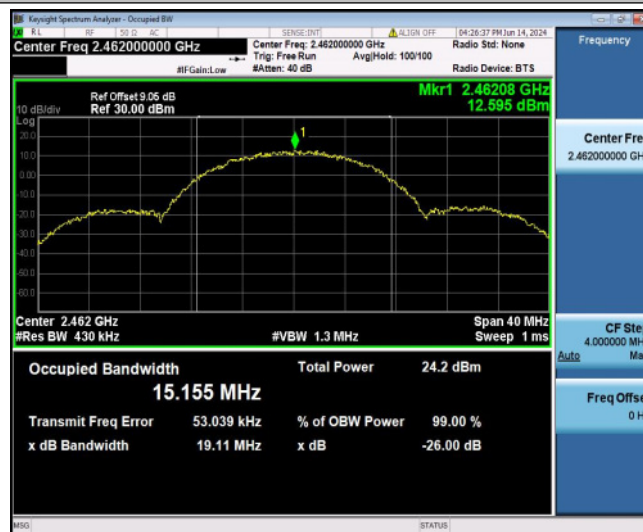
11B_Ant1_2412



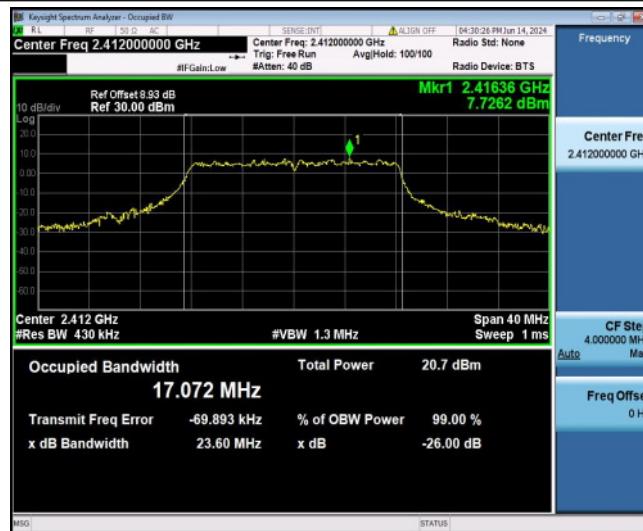
11B_Ant1_2437



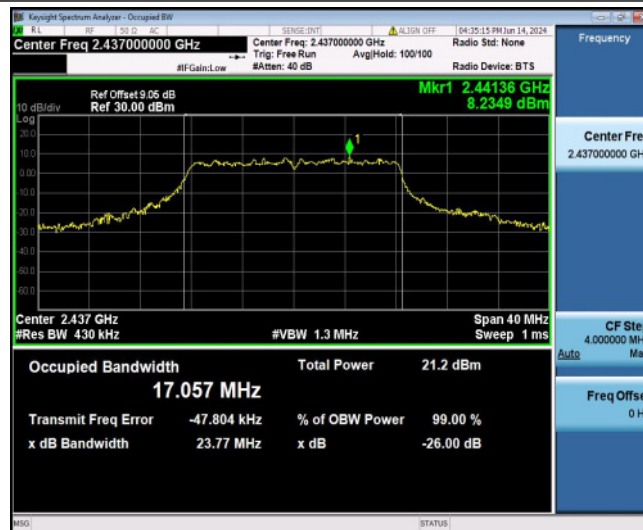
11B_Ant1_2462



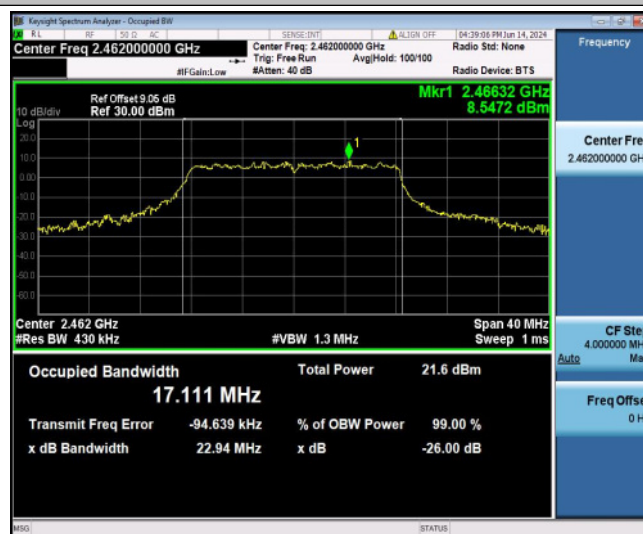
11G_Ant1_2412



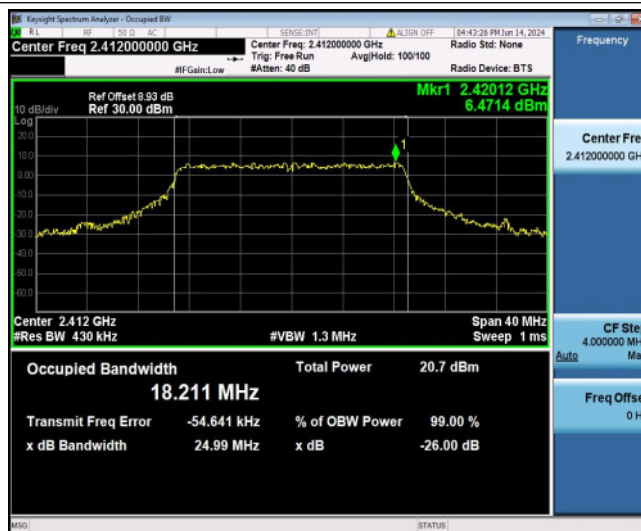
11G_Ant1_2437



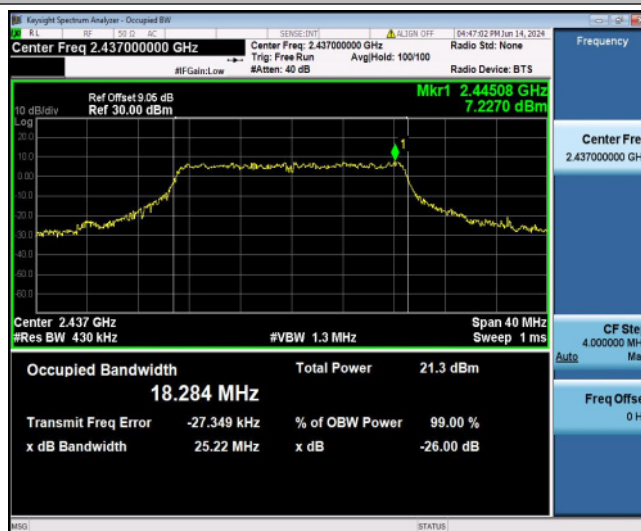
11G_Ant1_2462



11N20SISO_Ant1_2412



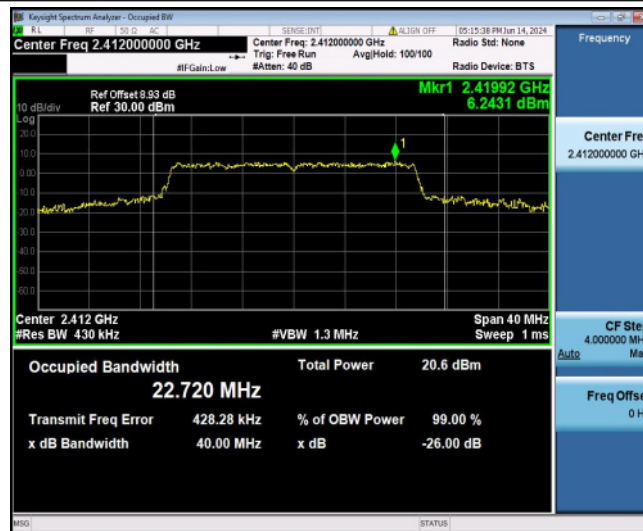
11N20SISO_Ant1_2437



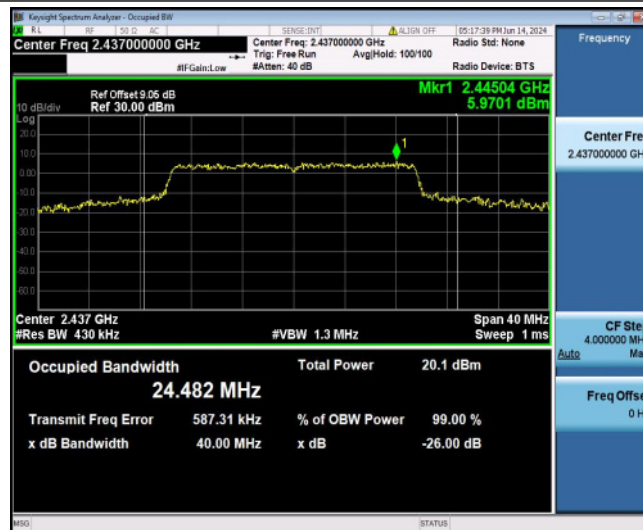
11N20SISO_Ant1_2462



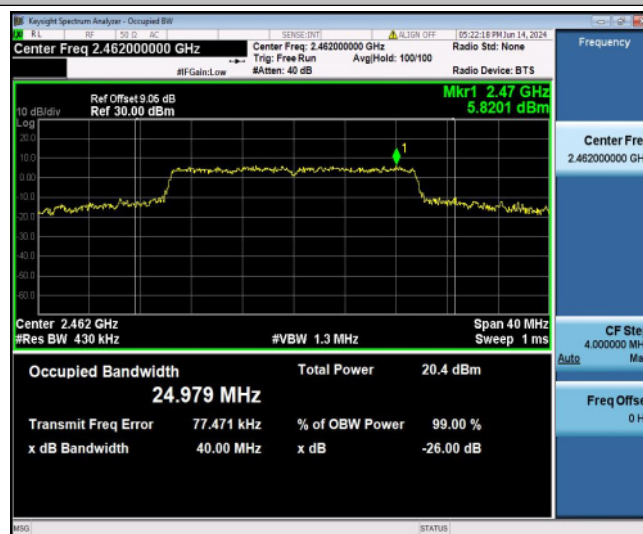
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



Appendix C.4: Maximum conducted output power

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Antenna Gain [dBi]	EIRP [dBm]	EIRP Limit[dBm]	Verdict
11B	Ant1	2412	22.31	≤30.00	3.37	25.68	≤36.00	PASS
		2437	23.14	≤30.00	3.37	26.51	≤36.00	PASS
		2462	23.50	≤30.00	3.37	26.87	≤36.00	PASS
11G	Ant1	2412	21.70	≤30.00	3.37	25.07	≤36.00	PASS
		2437	22.08	≤30.00	3.37	25.45	≤36.00	PASS
		2462	22.46	≤30.00	3.37	25.83	≤36.00	PASS
11N20SISO	Ant1	2412	21.48	≤30.00	3.37	24.85	≤36.00	PASS
		2437	22.03	≤30.00	3.37	25.4	≤36.00	PASS
		2462	22.68	≤30.00	3.37	26.05	≤36.00	PASS
11AX20SISO	Ant1	2412	20.43	≤30.00	3.37	23.8	≤36.00	PASS
		2437	20.58	≤30.00	3.37	23.95	≤36.00	PASS
		2462	21.54	≤30.00	3.37	24.91	≤36.00	PASS

Appendix C.5: Maximum power spectral density

Test Result

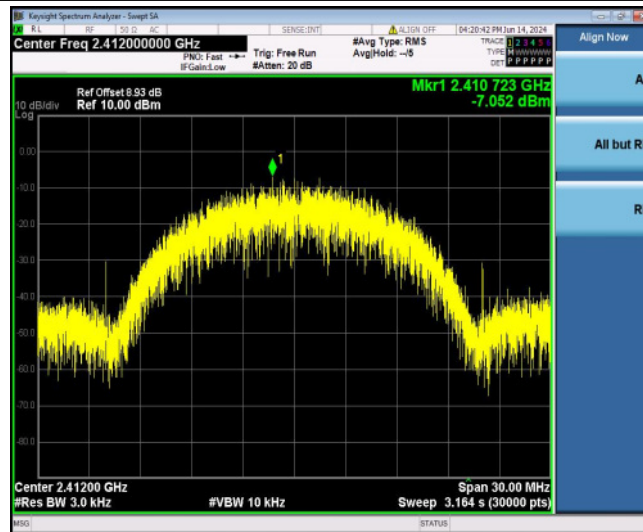
TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.05	≤8.00	PASS
		2437	-6.14	≤8.00	PASS
		2462	-5.57	≤8.00	PASS
11G	Ant1	2412	-11.21	≤8.00	PASS
		2437	-10.07	≤8.00	PASS
		2462	-9.51	≤8.00	PASS
11N20SISO	Ant1	2412	-10.59	≤8.00	PASS
		2437	-10.10	≤8.00	PASS
		2462	-9.19	≤8.00	PASS
11AX20SISO	Ant1	2412	-13.17	≤8.00	PASS
		2437	-13.11	≤8.00	PASS
		2462	-13.13	≤8.00	PASS

Note:

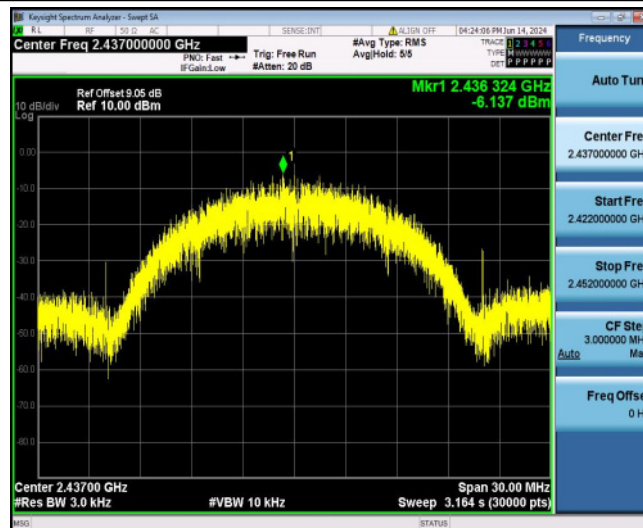
1. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

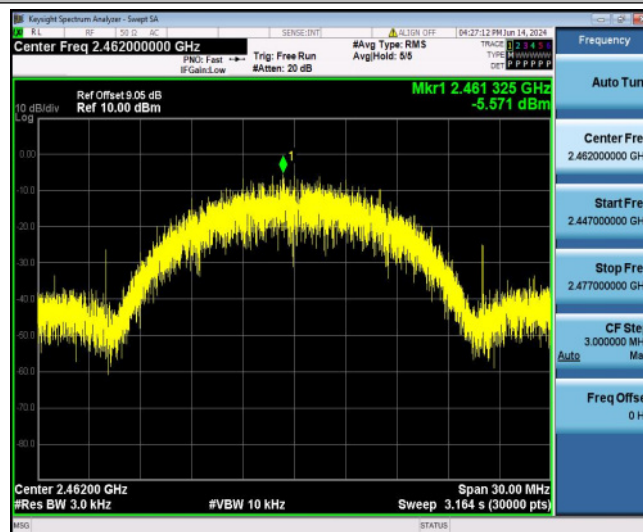
11B_Ant1_2412



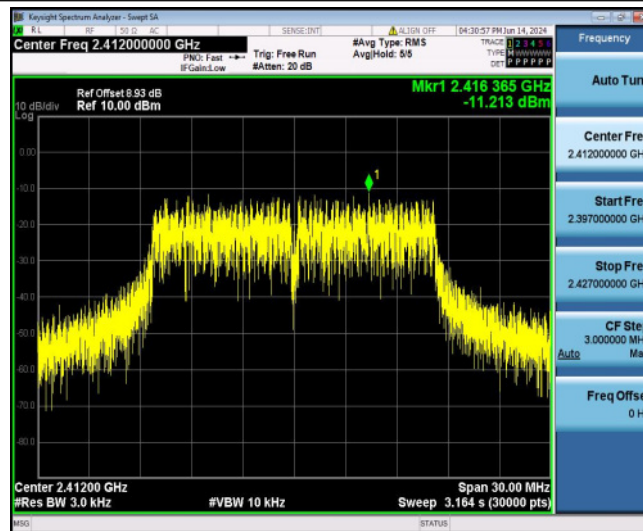
11B_Ant1_2437



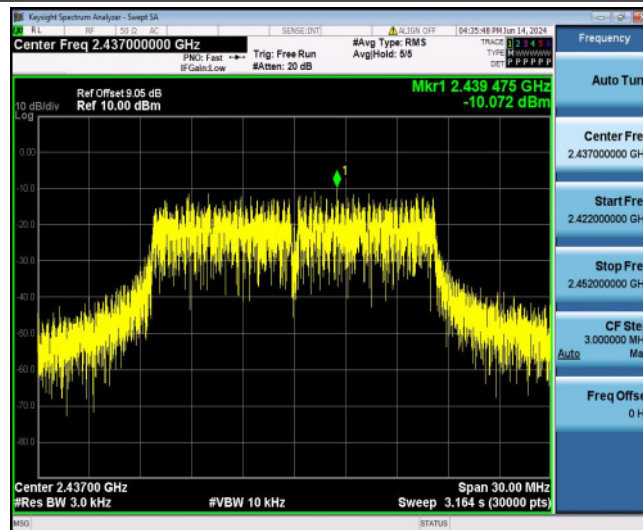
11B_Ant1_2462



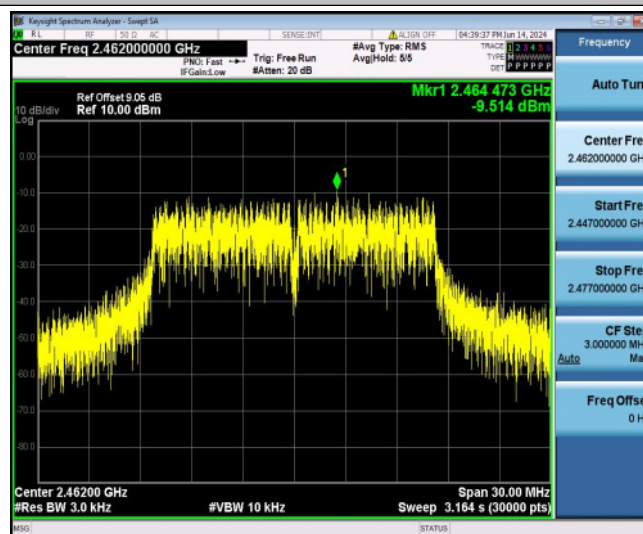
11G_Ant1_2412



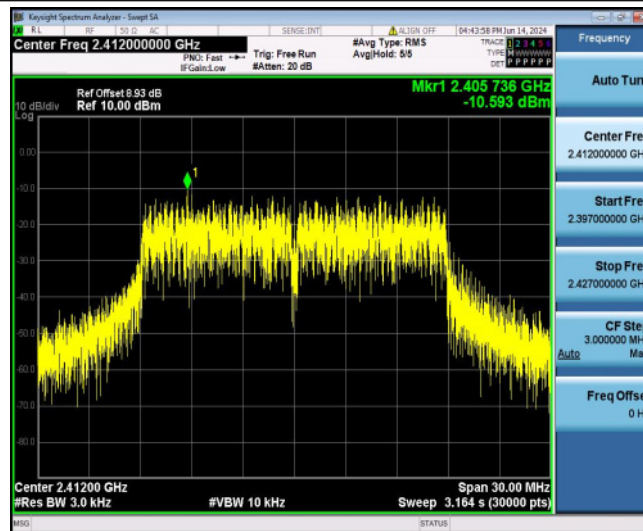
11G_Ant1_2437



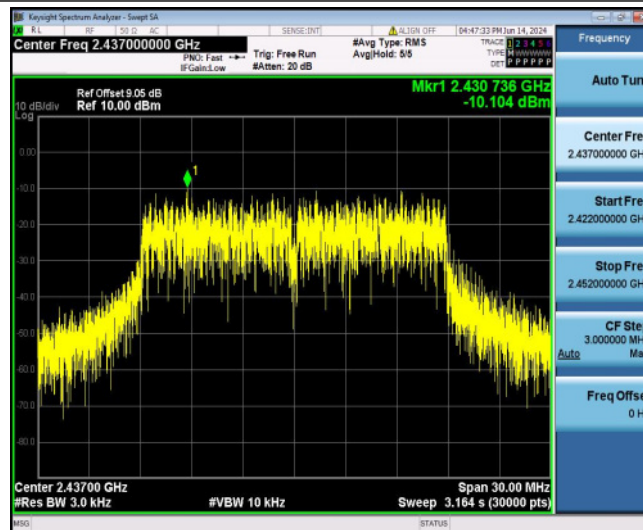
11G_Ant1_2462



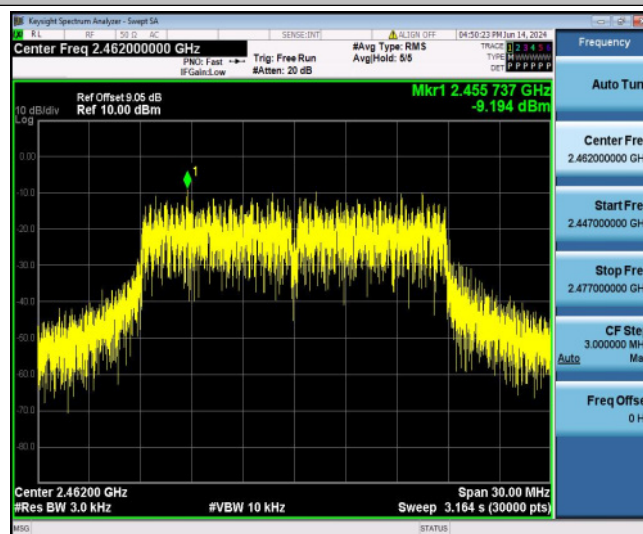
11N20SISO_Ant1_2412



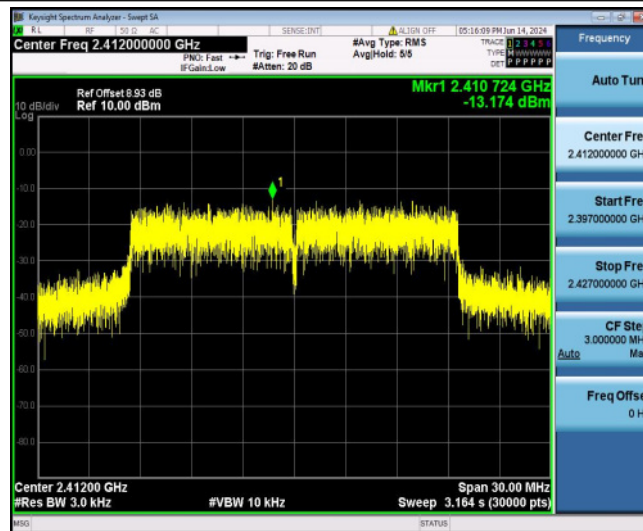
11N20SISO_Ant1_2437



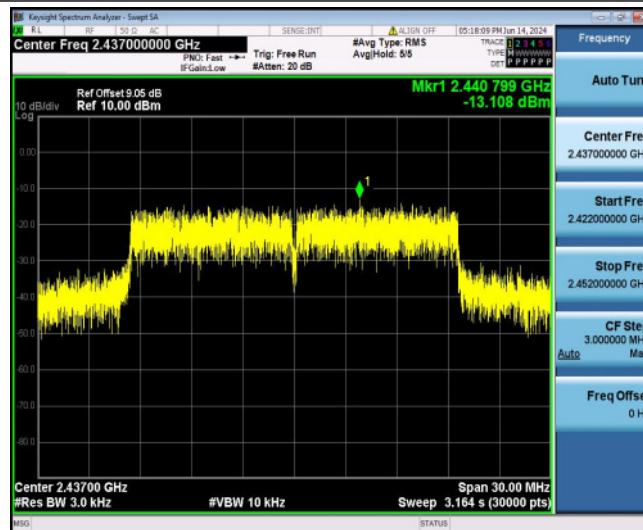
11N20SISO_Ant1_2462



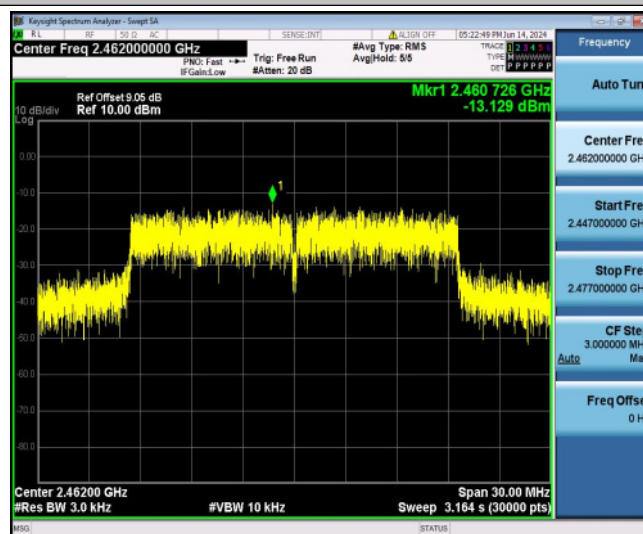
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



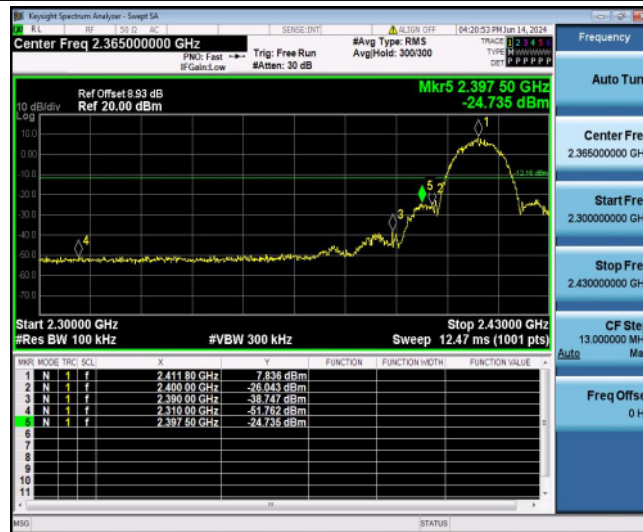
Appendix C.6: Band edge measurements

Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.84	-24.74	≤ -12.16	PASS
		High	2462	8.99	-36.8	≤ -11.01	PASS
11G	Ant1	Low	2412	3.55	-25.9	≤ -16.45	PASS
		High	2462	4.67	-36.16	≤ -15.33	PASS
11N20SISO	Ant1	Low	2412	3.39	-27.49	≤ -16.61	PASS
		High	2462	4.65	-33.46	≤ -15.35	PASS
11AX20SISO	Ant1	Low	2412	3.23	-17.86	≤ -16.77	PASS
		High	2462	3.46	-22.29	≤ -16.54	PASS

Test Graphs

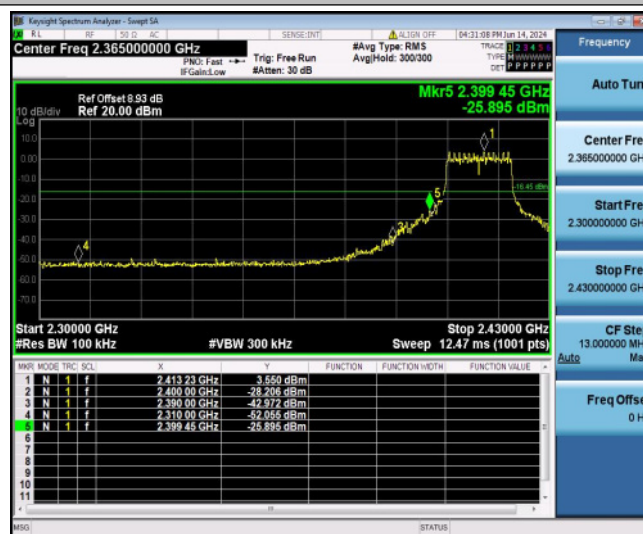
11B_Ant1_Low_2412



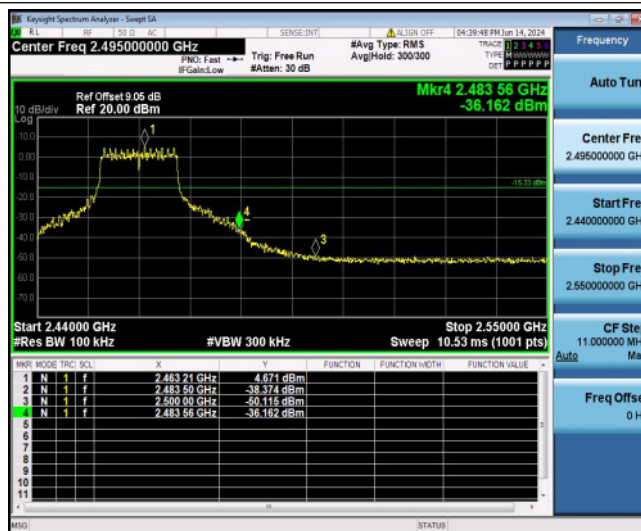
11B_Ant1_High_2462



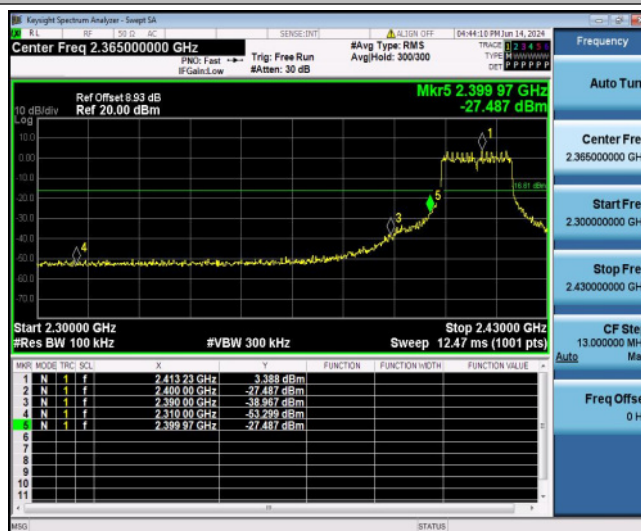
11G_Ant1_Low_2412



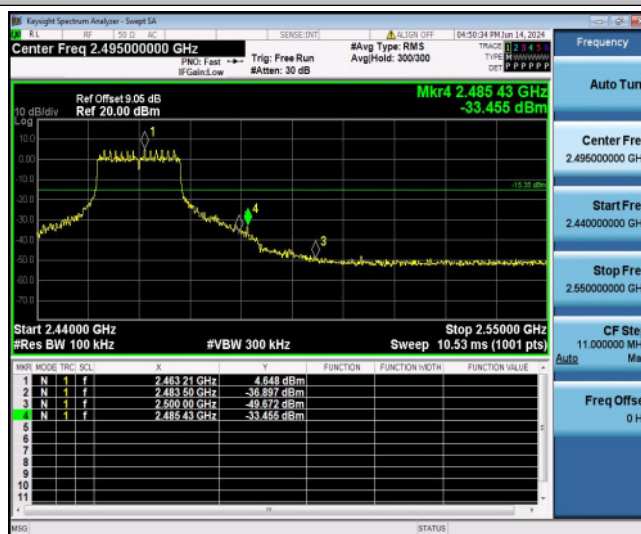
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11AX20SISO_Ant1_Low_2412