

Case No. : <u>CTA24061302002</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH,
Test Date: <u>2024.6.5</u> Test Engineer: <u>Lushan Kong</u>

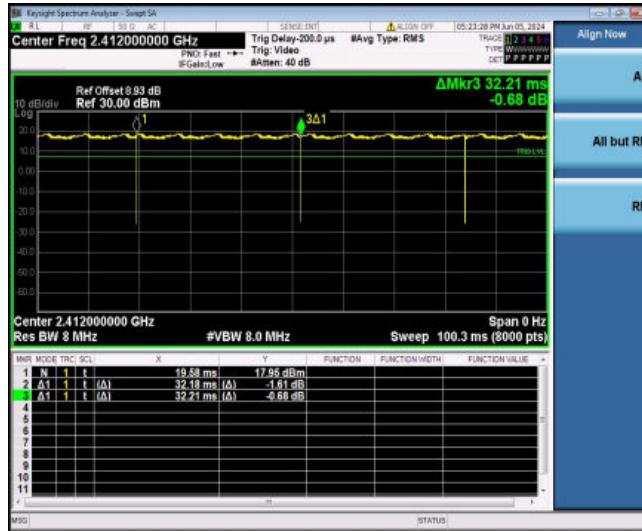
Appendix B.1: Duty Cycle

Test Result

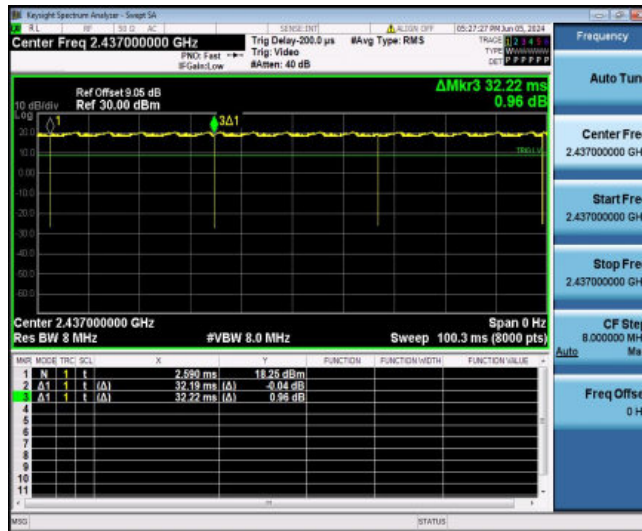
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11B	Ant1	2412	32.18	32.21	99.91	0.00	0.03
		2437	32.19	32.22	99.91	0.00	0.03
		2462	32.18	32.21	99.91	0.00	0.03
11G	Ant1	2412	5.35	5.38	99.44	0.02	0.19
		2437	5.35	5.38	99.44	0.02	0.19
		2462	5.35	5.38	99.44	0.02	0.19
11N20SISO	Ant1	2412	4.96	4.98	99.60	0.02	0.20
		2437	4.96	4.99	99.40	0.03	0.20
		2462	4.96	4.99	99.40	0.03	0.20
11N40SISO	Ant1	2422	2.40	2.43	98.77	0.05	0.42
		2437	2.41	2.43	99.18	0.04	0.41
		2452	2.41	2.44	98.77	0.05	0.41
11AX20SISO	Ant1	2412	7.56	7.58	99.74	0.01	0.13
		2437	7.55	7.58	99.60	0.02	0.13
		2462	7.56	7.58	99.74	0.01	0.13

Test Graphs

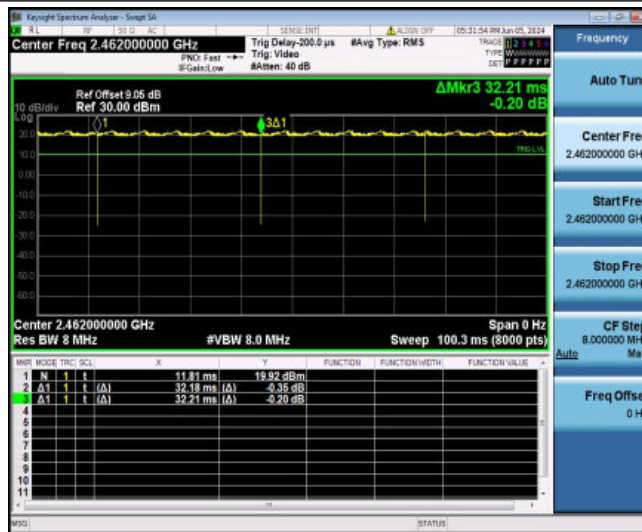
11B_Ant1_2412



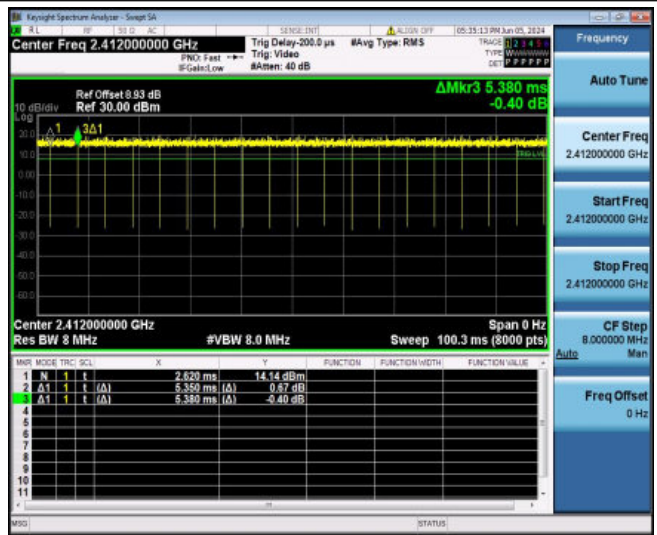
11B_Ant1_2437



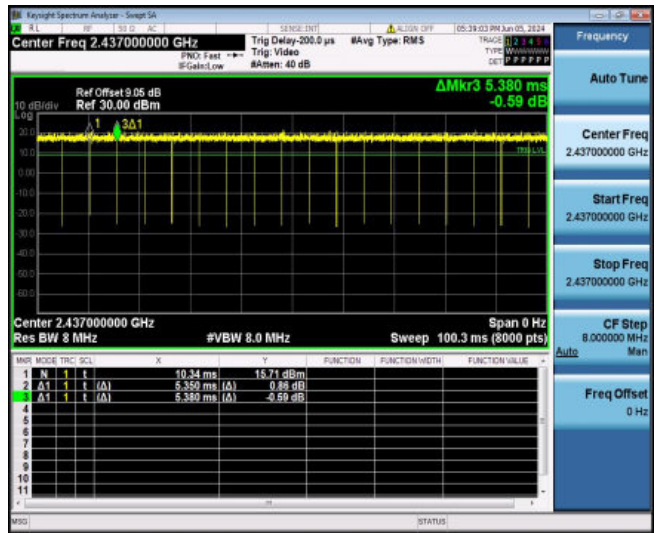
11B_Ant1_2462



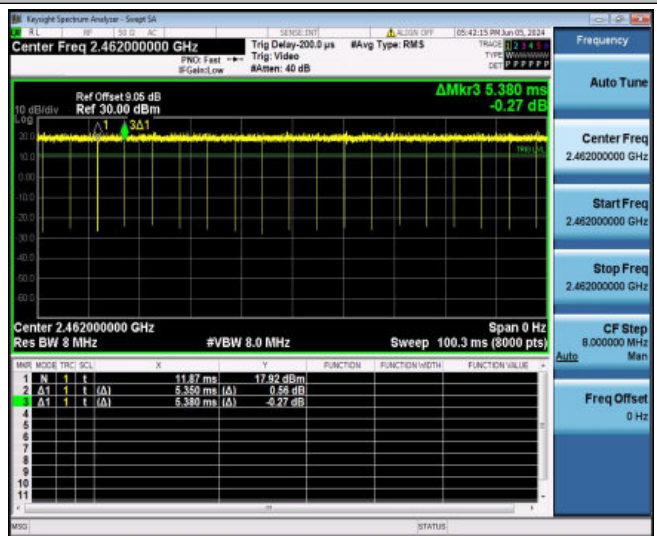
11G_Ant1_2412



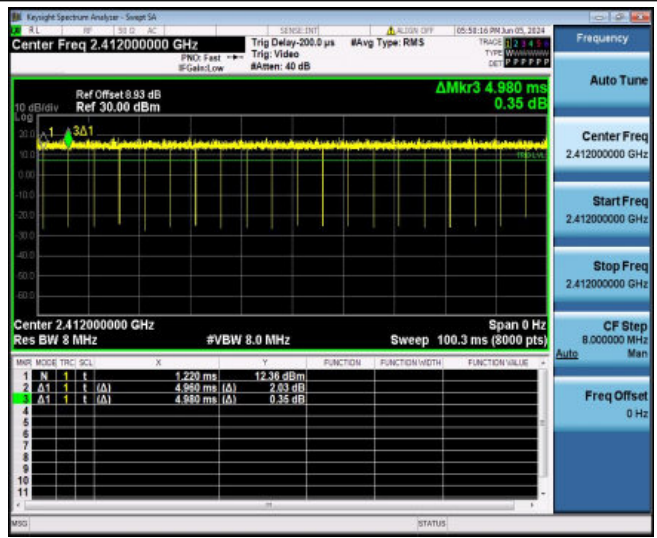
11G_Ant1_2437



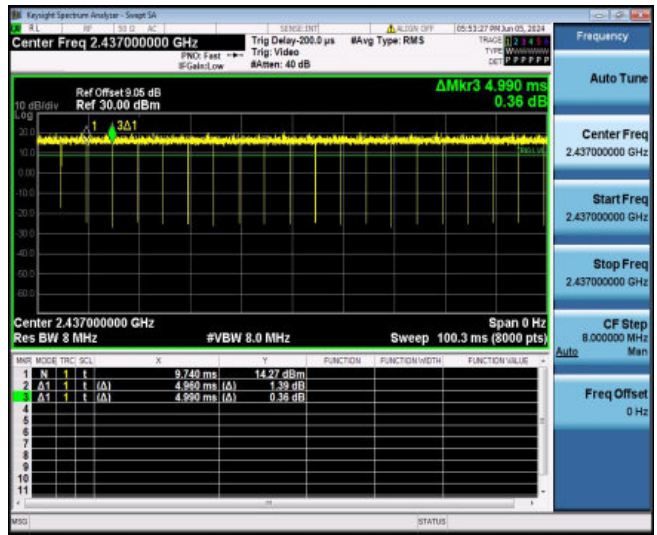
11G_Ant1_2462



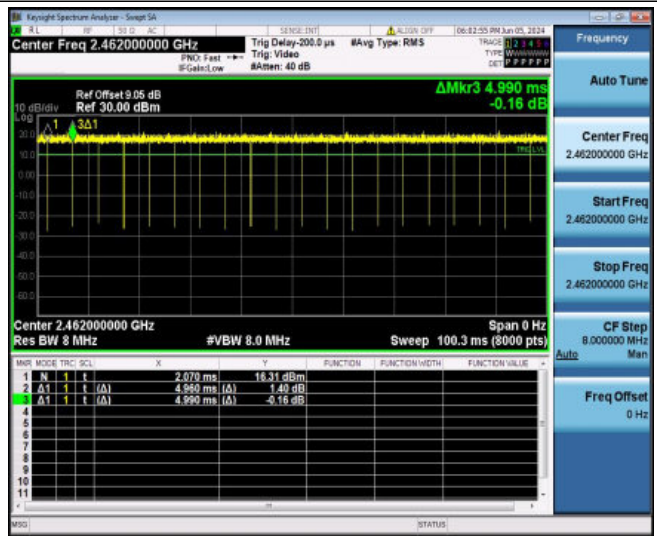
11N20SISO_Ant1_2412



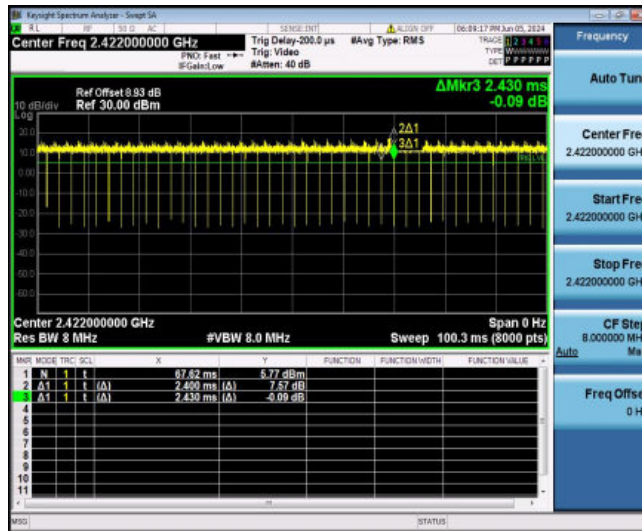
11N20SISO_Ant1_2437



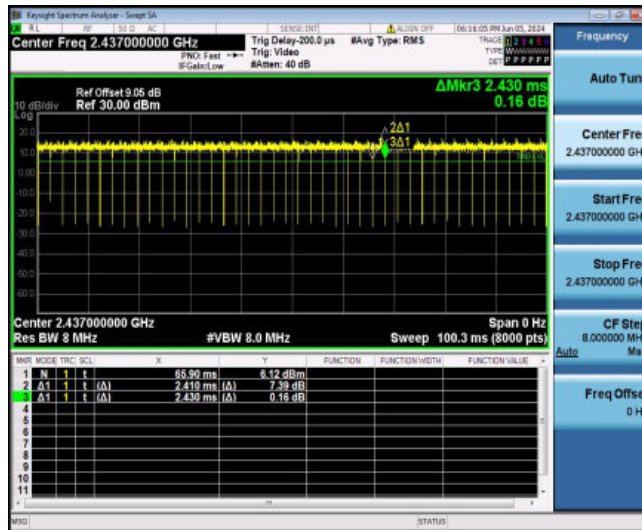
11N20SISO_Ant1_2462



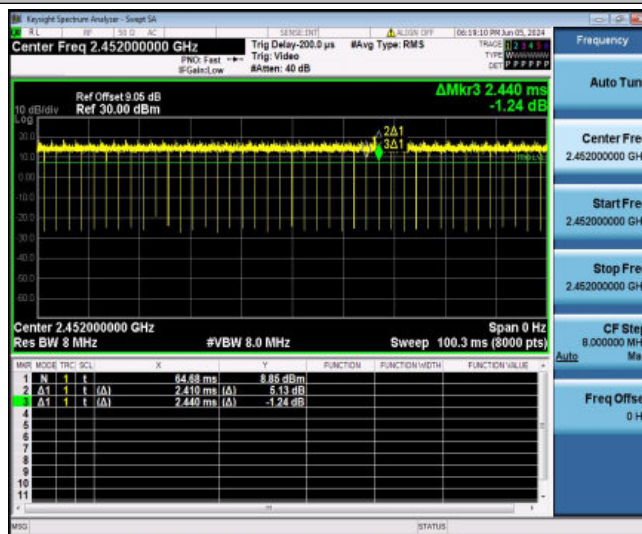
11N40SISO_Ant1_2422



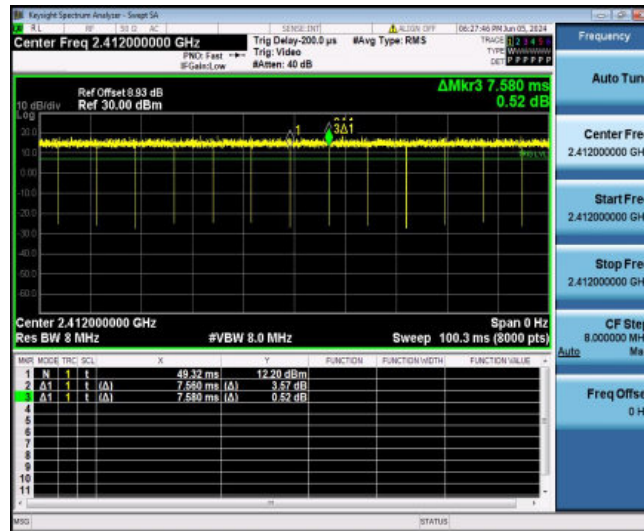
11N40SISO_Ant1_2437



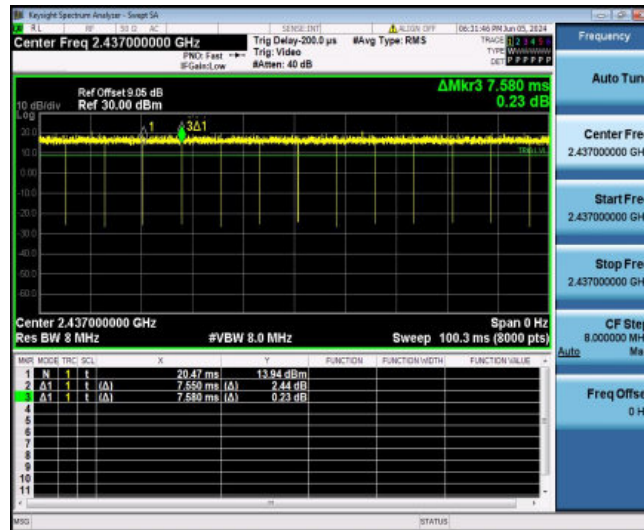
11N40SISO_Ant1_2452



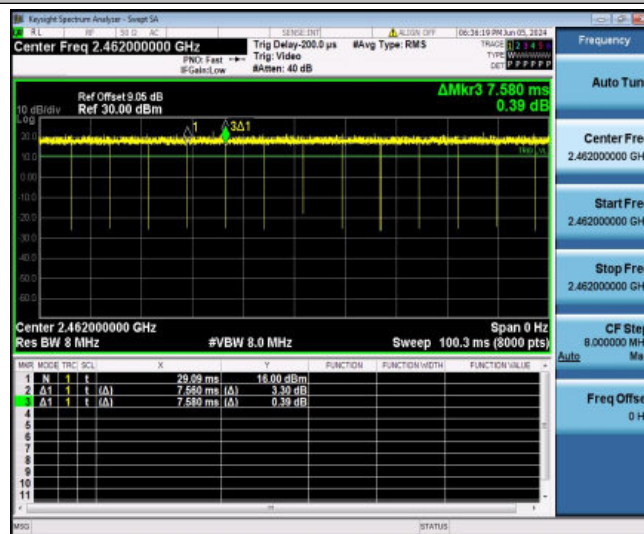
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



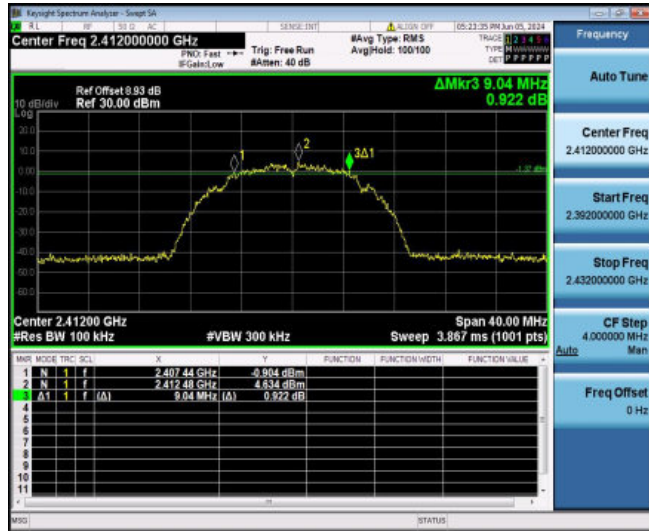
Appendix B.2: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.040	2407.440	2416.480	0.5	PASS
		2437	8.200	2432.960	2441.160	0.5	PASS
		2462	9.840	2456.960	2466.800	0.5	PASS
11G	Ant1	2412	16.040	2403.840	2419.880	0.5	PASS
		2437	16.000	2428.840	2444.840	0.5	PASS
		2462	16.280	2453.840	2470.120	0.5	PASS
11N20SISO	Ant1	2412	17.240	2403.240	2420.480	0.5	PASS
		2437	17.120	2428.400	2445.520	0.5	PASS
		2462	16.680	2453.440	2470.120	0.5	PASS
11N40SISO	Ant1	2422	30.000	2406.960	2436.960	0.5	PASS
		2437	28.640	2422.360	2451.000	0.5	PASS
		2452	29.440	2437.600	2467.040	0.5	PASS
11AX20SISO	Ant1	2412	16.880	2403.440	2420.320	0.5	PASS
		2437	18.200	2427.880	2446.080	0.5	PASS
		2462	15.920	2453.800	2469.720	0.5	PASS

Test Graphs

11B_Ant1_2412



11B_Ant1_2437



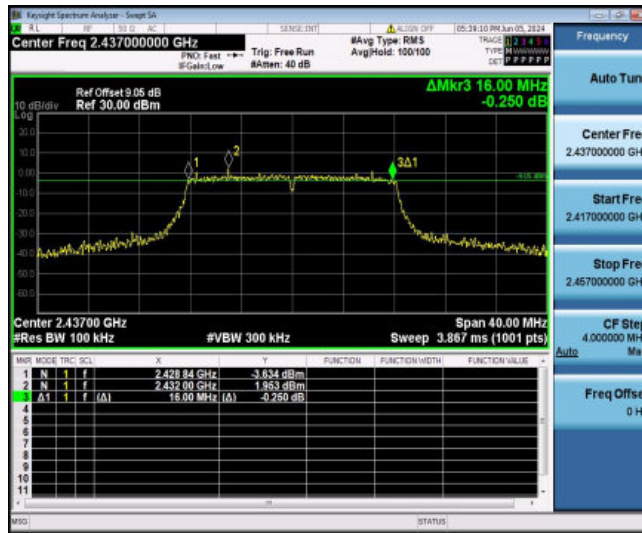
11B_Ant1_2462



11G_Ant1_2412



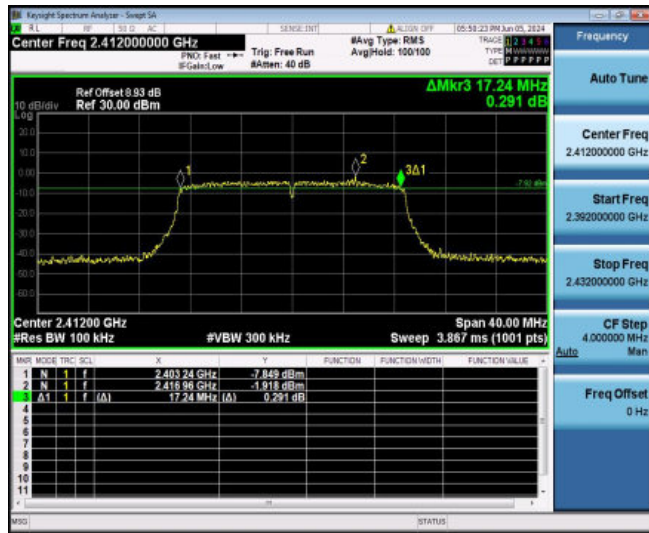
11G_Ant1_2437



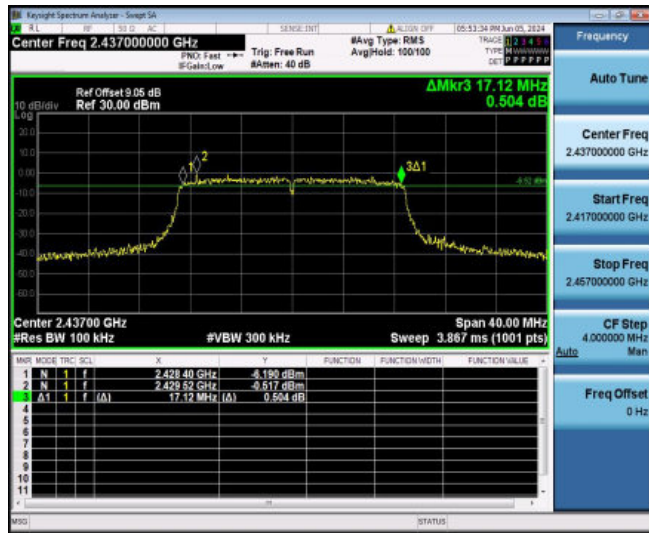
11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



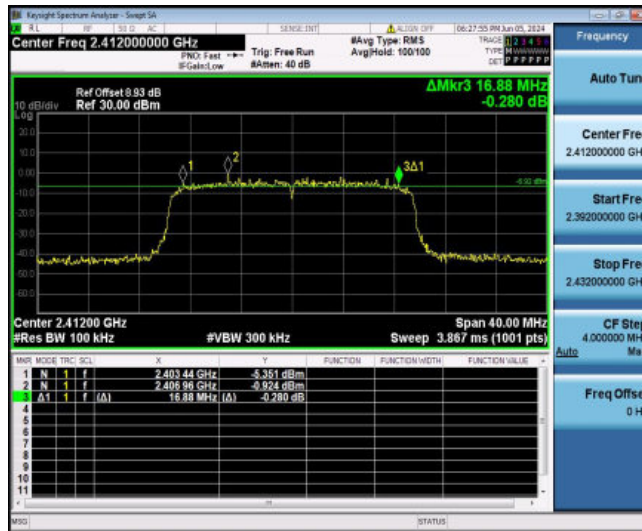
11N40SISO_Ant1_2437



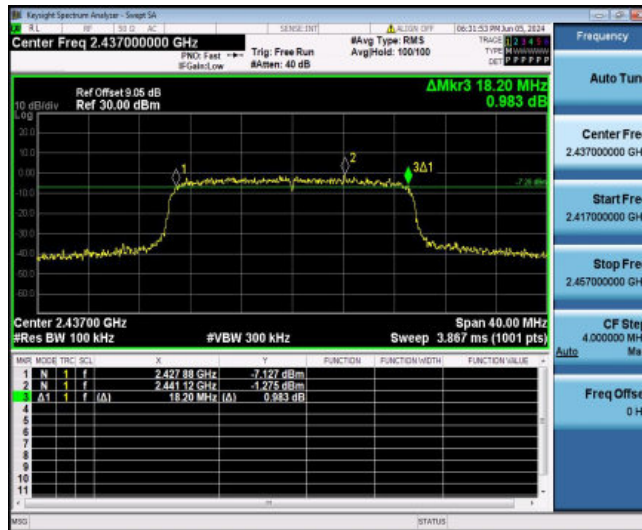
11N40SISO_Ant1_2452



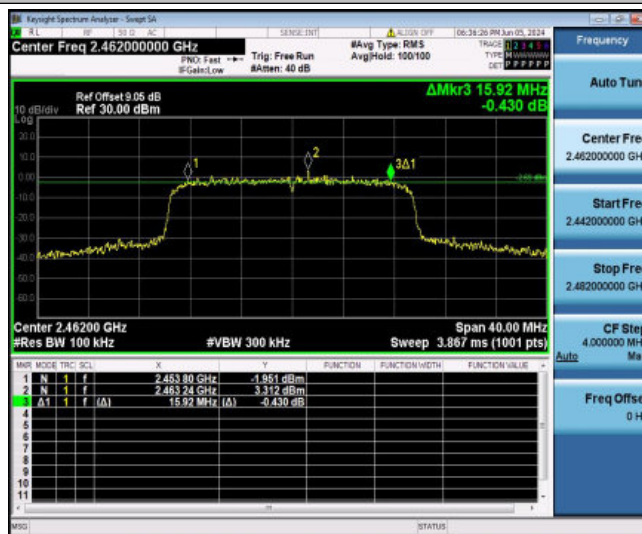
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



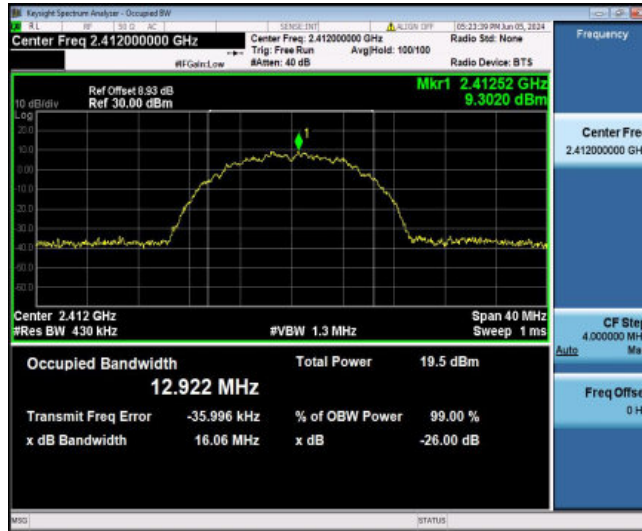
Appendix B.3: Occupied Channel Bandwidth

Test Result

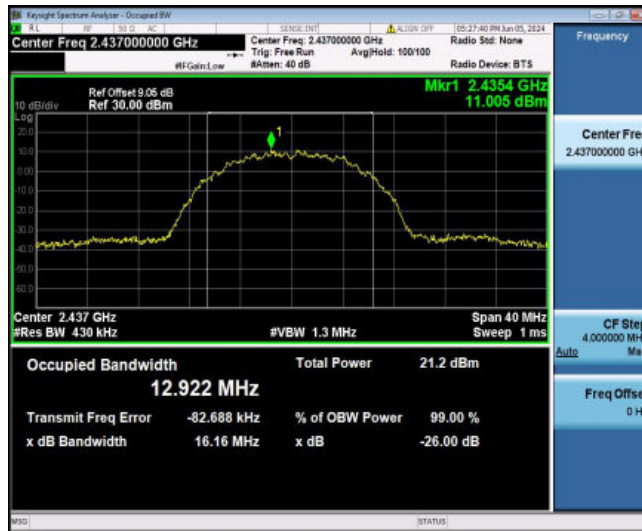
TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	12.922	2405.5030	2418.4250
		2437	12.922	2430.4563	2443.3783
		2462	12.918	2455.4457	2468.3637
11G	Ant1	2412	16.685	2403.6197	2420.3047
		2437	16.739	2428.5883	2445.3273
		2462	16.815	2453.5309	2470.3459
11N20SISO	Ant1	2412	17.612	2403.2079	2420.8199
		2437	17.625	2428.1533	2445.7783
		2462	17.669	2453.1476	2470.8166
11N40SISO	Ant1	2422	33.545	2405.2154	2438.7604
		2437	33.502	2420.2071	2453.7091
		2452	33.533	2435.2174	2468.7504
11AX20SISO	Ant1	2412	18.520	2402.7312	2421.2512
		2437	18.538	2427.6856	2446.2236
		2462	18.500	2452.7240	2471.2240

Test Graphs

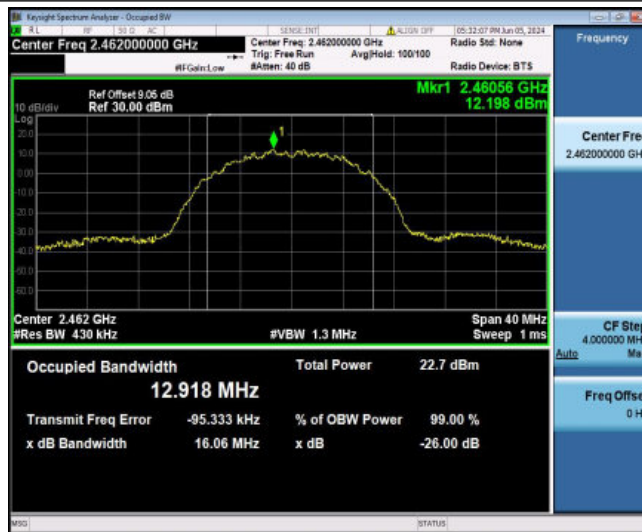
11B_Ant1_2412



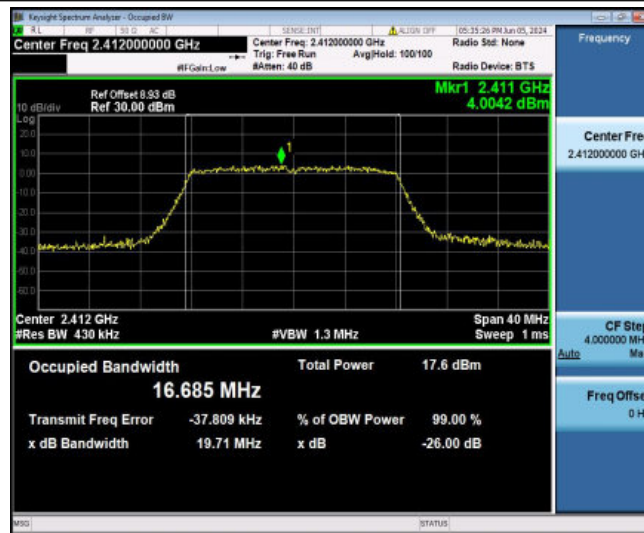
11B_Ant1_2437



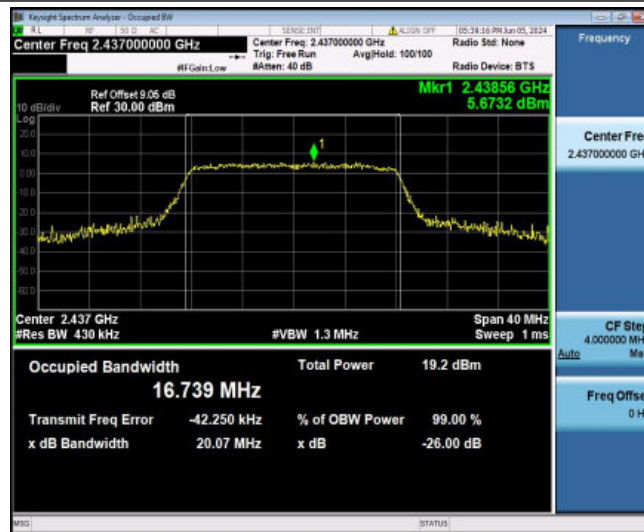
11B_Ant1_2462



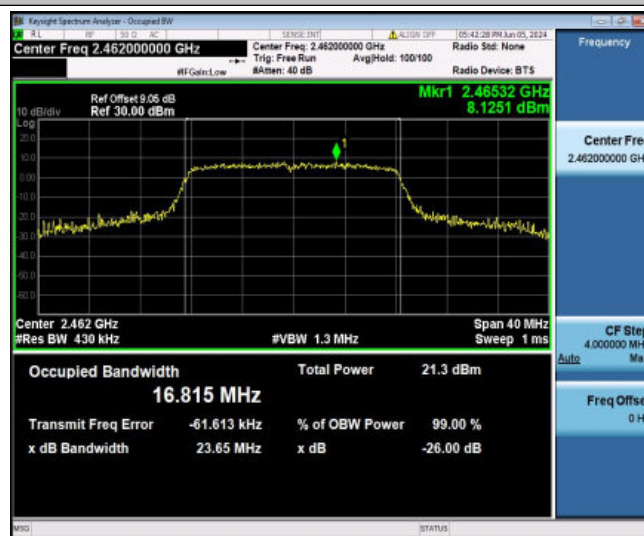
11G_Ant1_2412



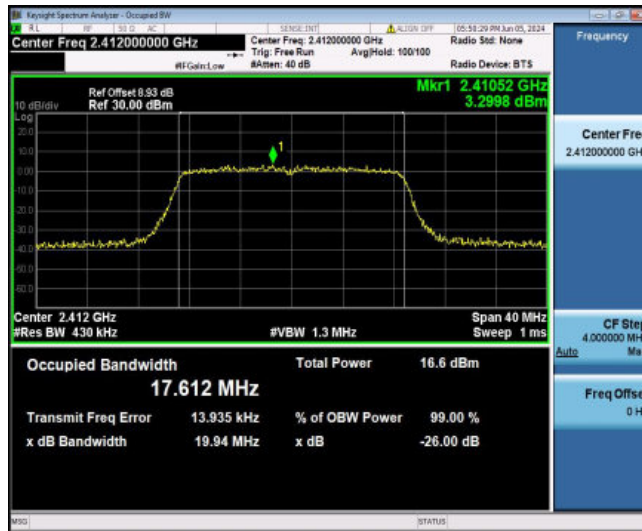
11G_Ant1_2437



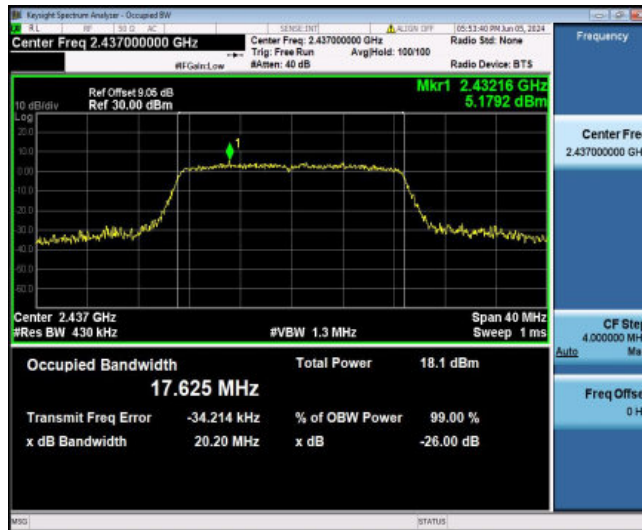
11G_Ant1_2462



11N20SISO_Ant1_2412



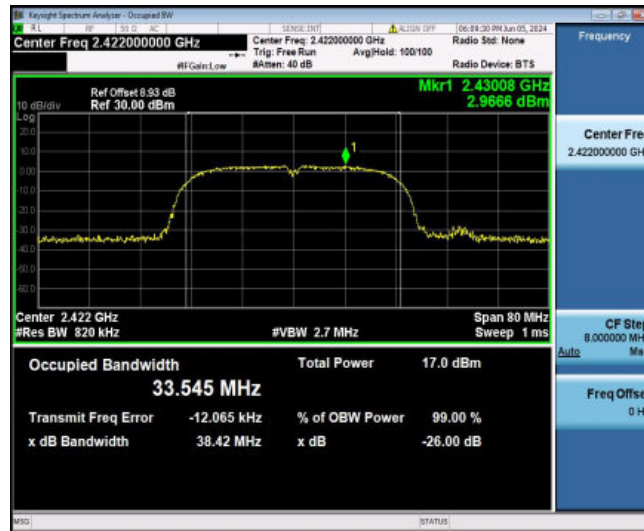
11N20SISO_Ant1_2437



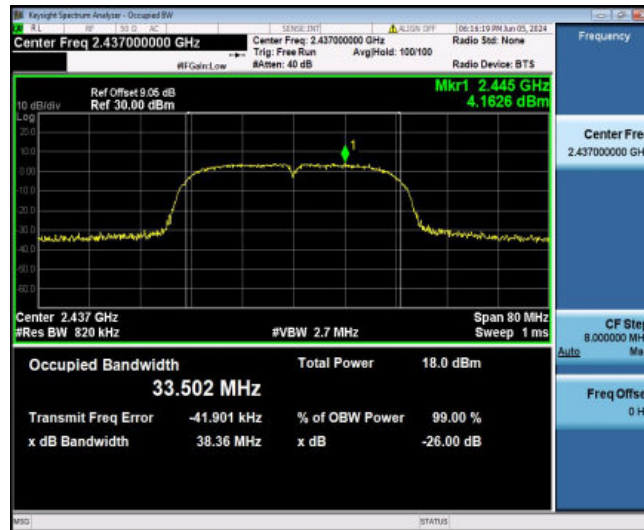
11N20SISO_Ant1_2462



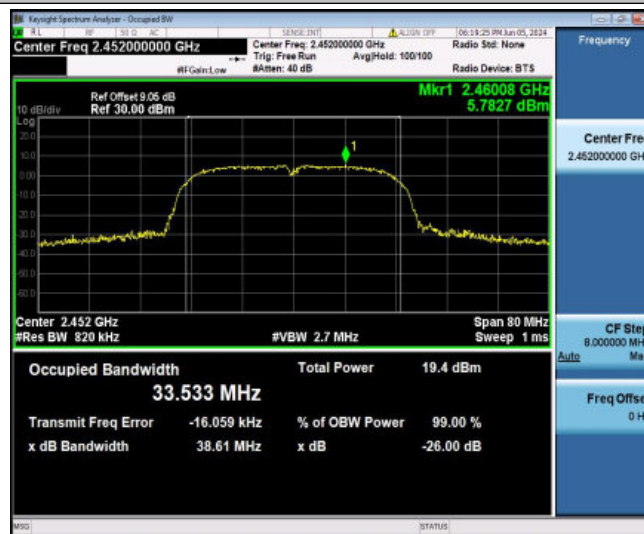
11N40SISO_Ant1_2422



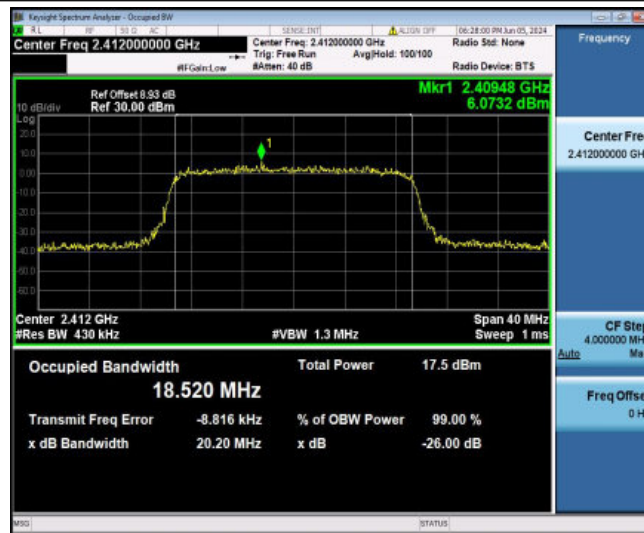
11N40SISO_Ant1_2437



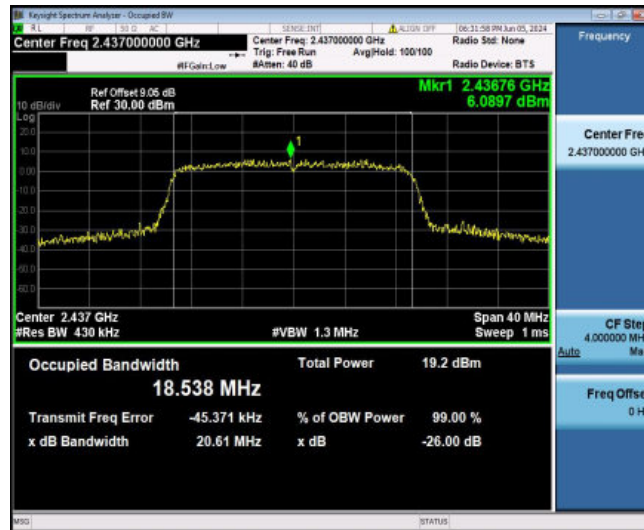
11N40SISO_Ant1_2452



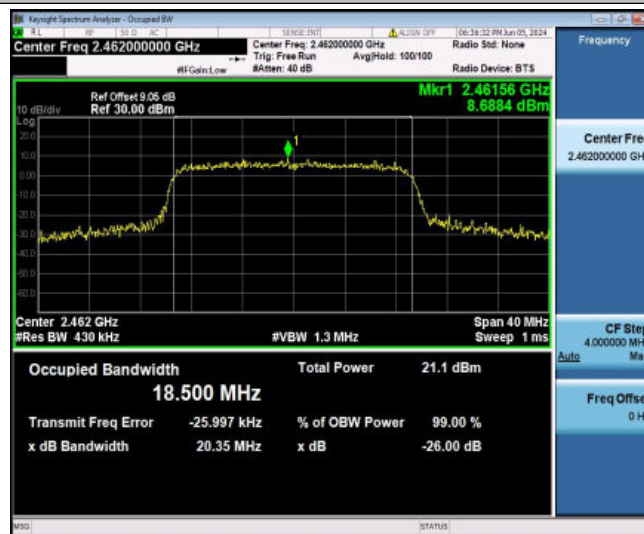
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



Appendix B.4: Maximum conducted output power

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Antenna Gain (dBi)	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	19.67	≤30.00	2.93	22.6	≤36.00	PASS
		2437	21.38	≤30.00	2.93	24.31	≤36.00	PASS
		2462	22.79	≤30.00	2.93	25.72	≤36.00	PASS
11G	Ant1	2412	18.75	≤30.00	2.93	21.68	≤36.00	PASS
		2437	20.38	≤30.00	2.93	23.31	≤36.00	PASS
		2462	22.42	≤30.00	2.93	25.35	≤36.00	PASS
11N20SISO	Ant1	2412	17.78	≤30.00	2.93	20.71	≤36.00	PASS
		2437	19.30	≤30.00	2.93	22.23	≤36.00	PASS
		2462	21.13	≤30.00	2.93	24.06	≤36.00	PASS
11N40SISO	Ant1	2422	17.34	≤30.00	2.93	20.27	≤36.00	PASS
		2437	18.40	≤30.00	2.93	21.33	≤36.00	PASS
		2452	19.82	≤30.00	2.93	22.75	≤36.00	PASS
11AX20SISO	Ant1	2412	18.29	≤30.00	2.93	21.22	≤36.00	PASS
		2437	19.86	≤30.00	2.93	22.79	≤36.00	PASS
		2462	21.89	≤30.00	2.93	24.82	≤36.00	PASS

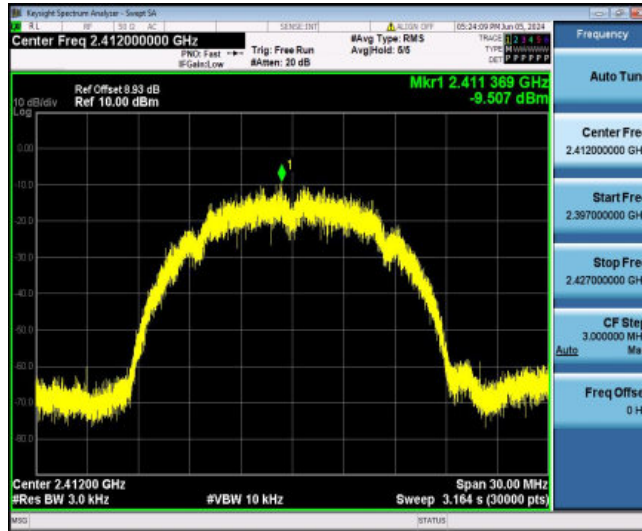
Appendix B.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.51	≤8.00	PASS
		2437	-7.86	≤8.00	PASS
		2462	-6.73	≤8.00	PASS
11G	Ant1	2412	-13.25	≤8.00	PASS
		2437	-11.81	≤8.00	PASS
		2462	-10.03	≤8.00	PASS
11N20SISO	Ant1	2412	-14.76	≤8.00	PASS
		2437	-13.22	≤8.00	PASS
		2462	-11.72	≤8.00	PASS
11N40SISO	Ant1	2422	-17.52	≤8.00	PASS
		2437	-16.43	≤8.00	PASS
		2452	-14.55	≤8.00	PASS
11AX20SISO	Ant1	2412	-12.42	≤8.00	PASS
		2437	-10.52	≤8.00	PASS
		2462	-8.75	≤8.00	PASS

Test Graphs

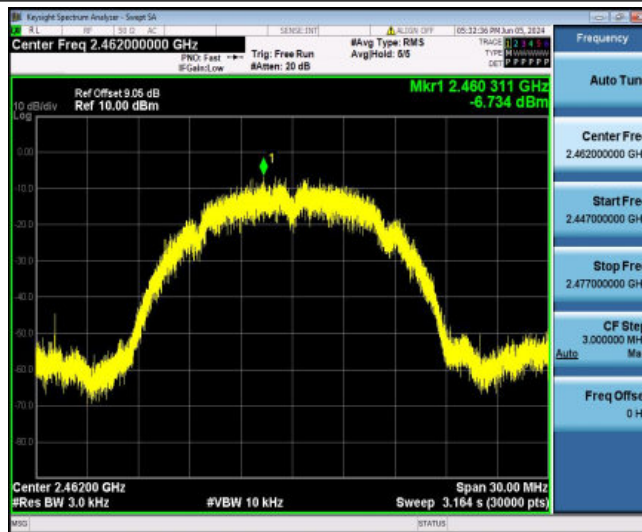
11B_Ant1_2412



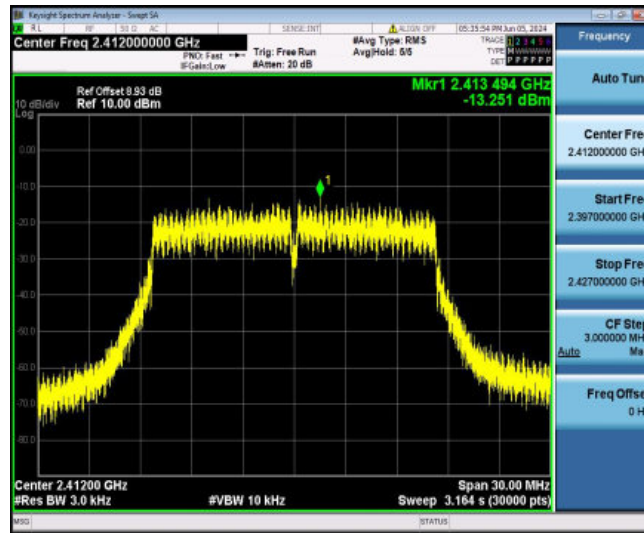
11B_Ant1_2437



11B_Ant1_2462



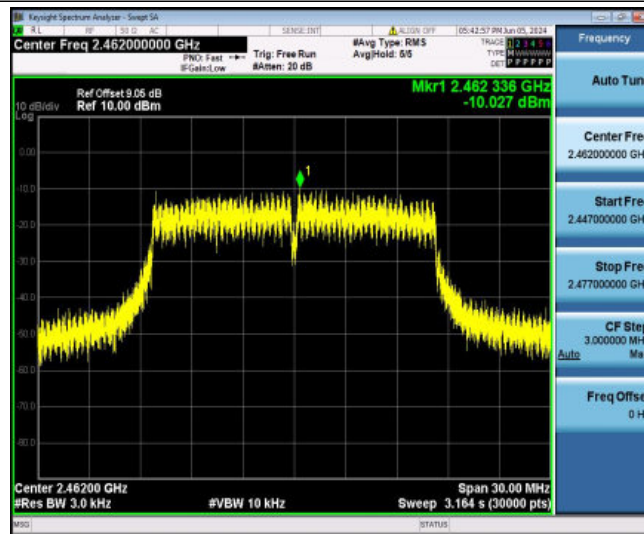
11G_Ant1_2412



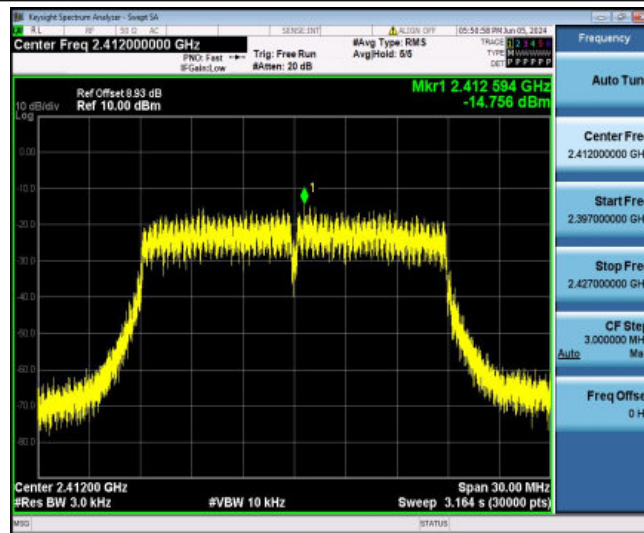
11G_Ant1_2437



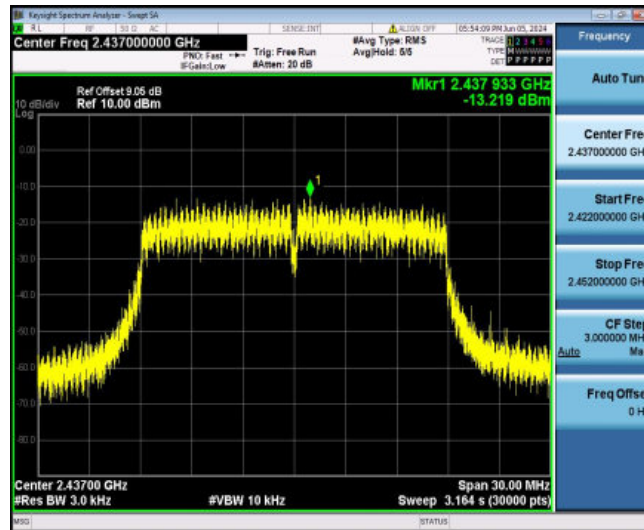
11G_Ant1_2462



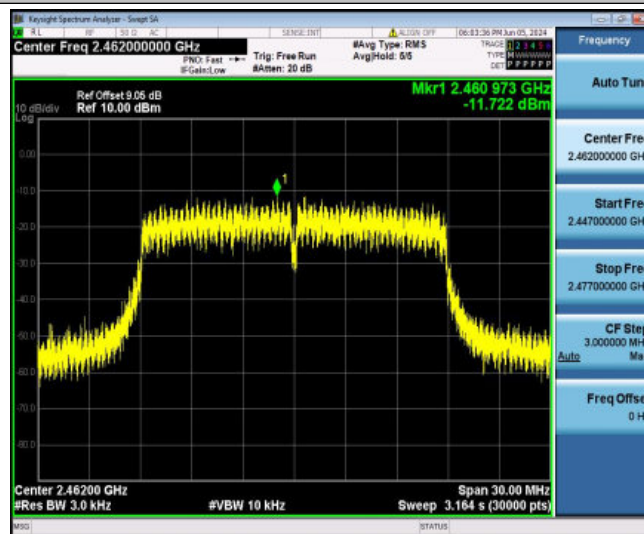
11N20SISO_Ant1_2412



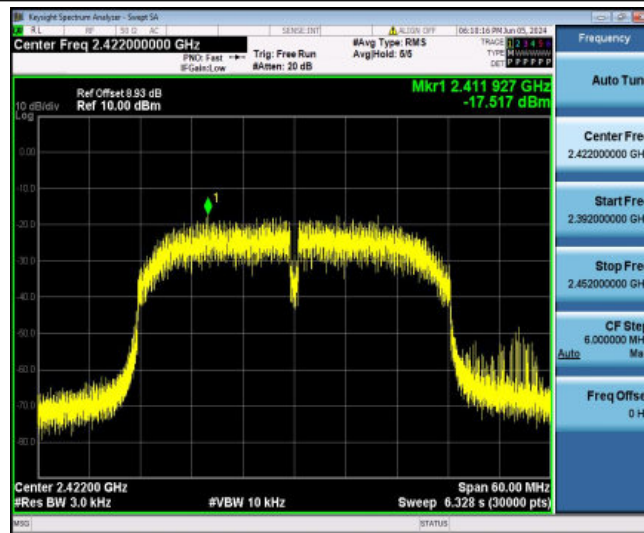
11N20SISO_Ant1_2437



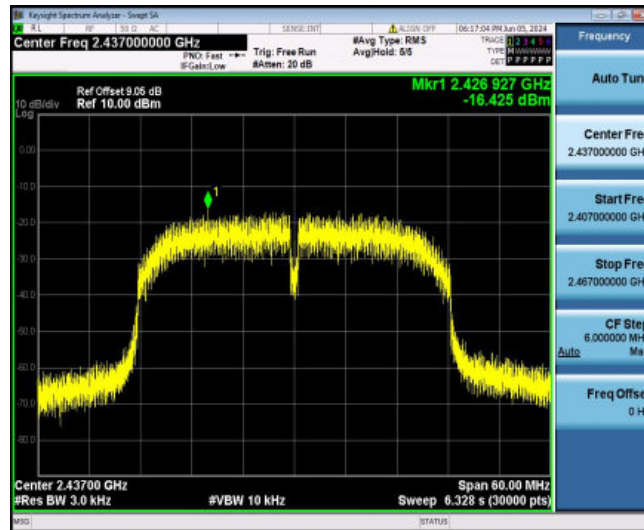
11N20SISO_Ant1_2462



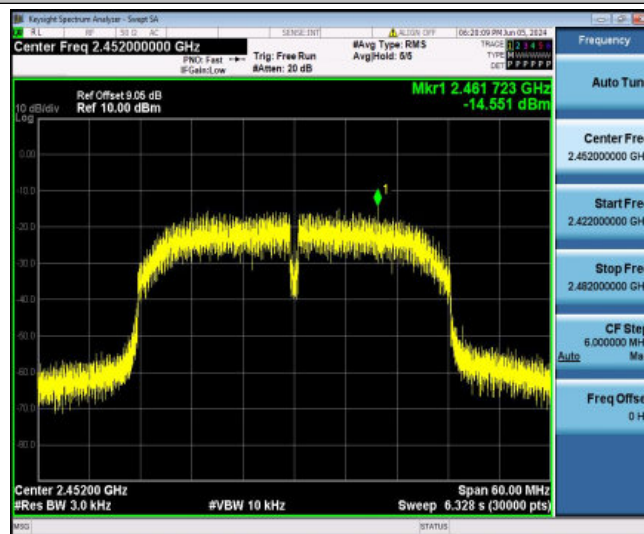
11N40SISO_Ant1_2422



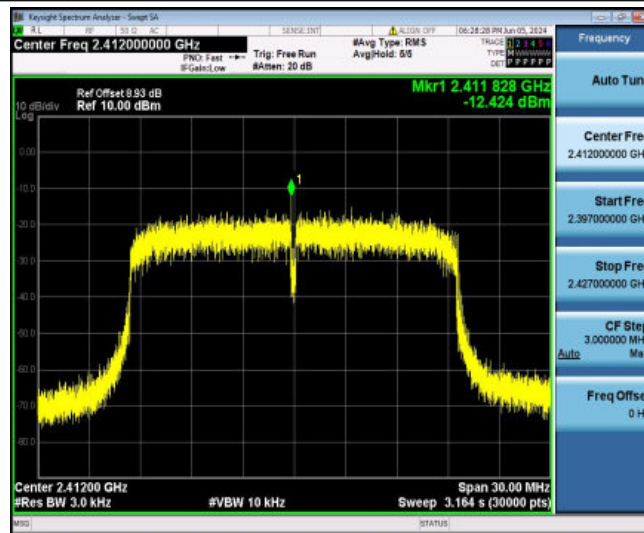
11N40SISO_Ant1_2437



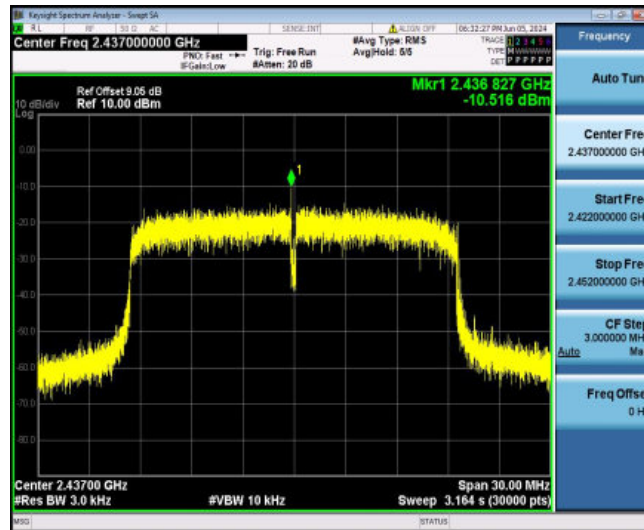
11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



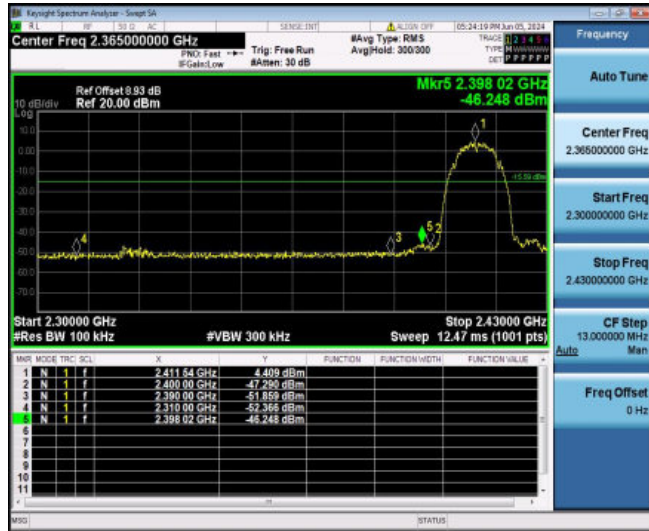
Appendix B.6: Band edge measurements

Test Result

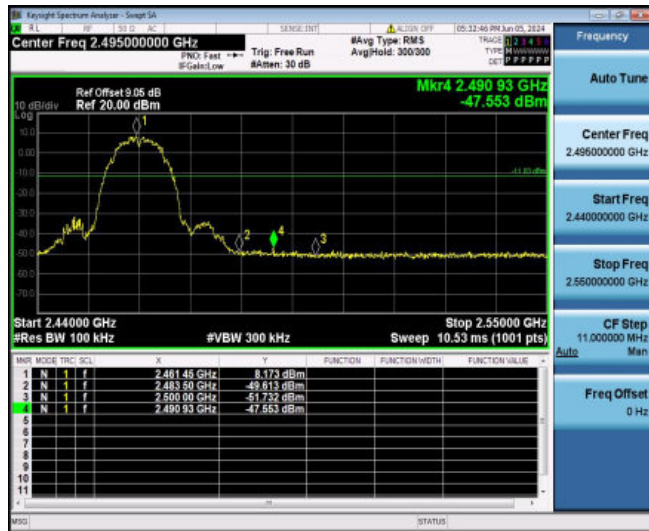
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.41	-46.25	≤ -15.59	PASS
		High	2462	8.17	-47.55	≤ -11.83	PASS
11G	Ant1	Low	2412	0.66	-40.56	≤ -19.34	PASS
		High	2462	4.48	-38.52	≤ -15.53	PASS
11N20SISO	Ant1	Low	2412	-0.77	-44.53	≤ -20.77	PASS
		High	2462	2.68	-39.41	≤ -17.32	PASS
11N40SISO	Ant1	Low	2422	-3.02	-46.39	≤ -23.02	PASS
		High	2452	-1.06	-41.69	≤ -21.06	PASS
11AX20SISO	Ant1	Low	2412	-1.17	-44.71	≤ -21.17	PASS
		High	2462	2.77	-39.42	≤ -17.23	PASS

Test Graphs

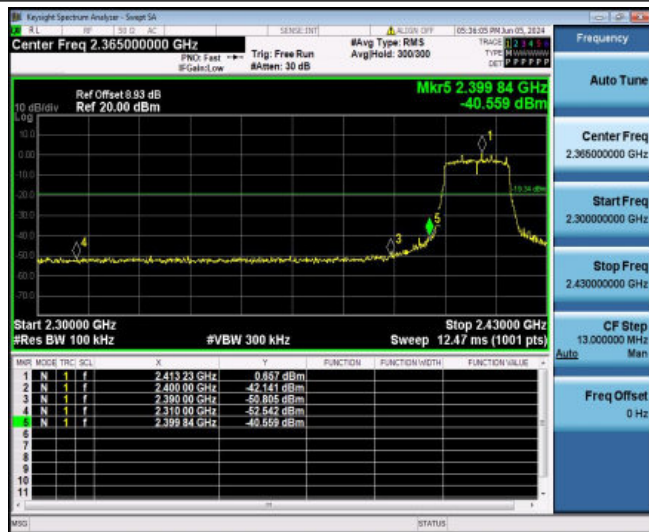
11B_Ant1_Low_2412



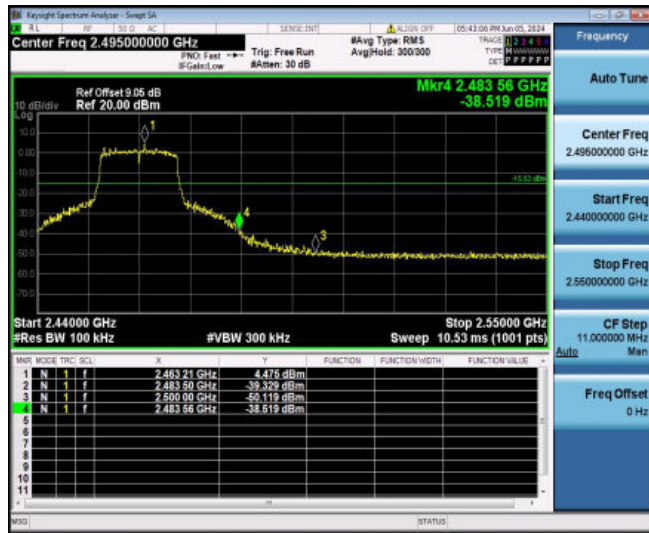
11B_Ant1_High_2462



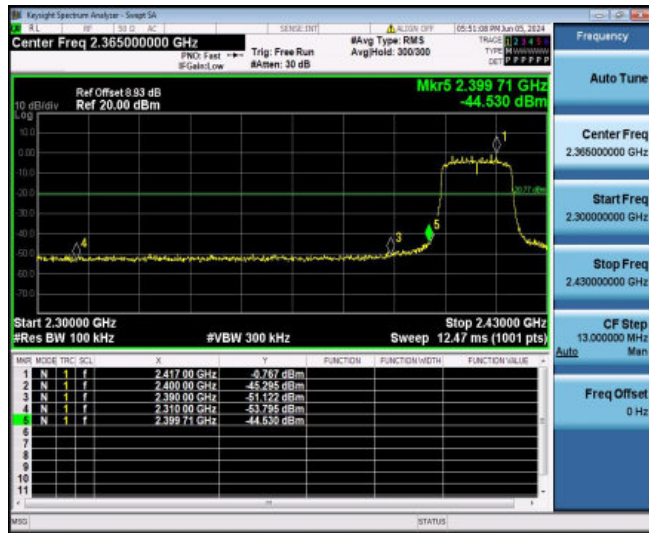
11G_Ant1_Low_2412



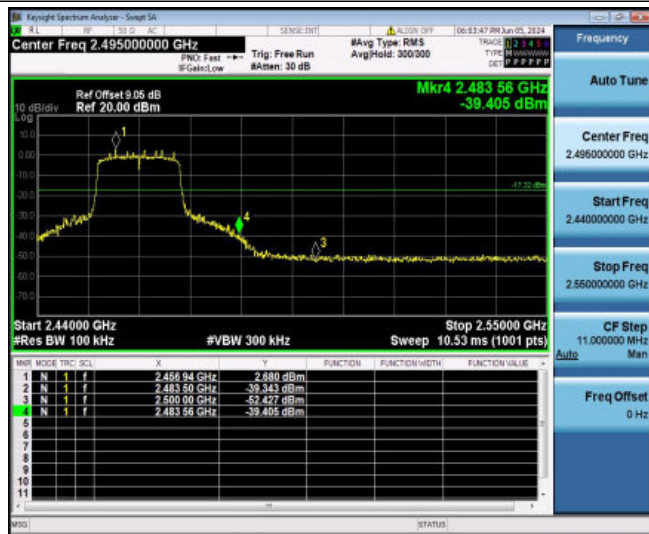
11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



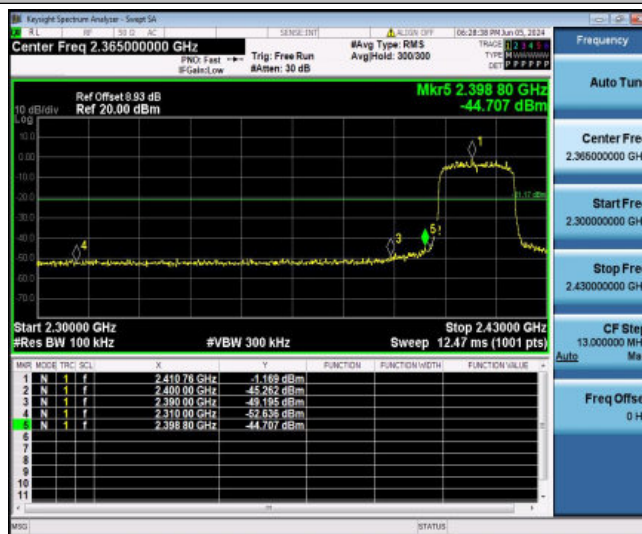
11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412



11AX20SISO_Ant1_High_2462

