

Appendix B: Test Results of 2.4GHz SDR

APPENDIX B: TEST RESULTS OF 2.4GHZ SDR	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
2.4GHz SDR, 1.4MHz BW	2
2.4GHz SDR, 1.4MHz BW CA mode	4
2.4GHz SDR, 3MHz BW	5
2.4GHz SDR, 10MHz BW	6
2.4GHz SDR, 20MHz BW	7
APPENDIX B.2: TEST RESULTS OF 6DB BANDWIDTH	8
2.4GHz SDR, 1.4MHz BW	8
2.4GHz SDR, 1.4MHz BW CA mode	9
2.4GHz SDR, 3MHz BW	10
2.4GHz SDR, 10MHz BW	11
2.4GHz SDR, 20MHz BW	12
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH	13
2.4GHz SDR, 1.4MHz BW	13
2.4GHz SDR, 1.4MHz BW CA mode	14
2.4GHz SDR, 3MHz BW	15
2.4GHz SDR, 10MHz BW	16
2.4GHz SDR, 20MHz BW	17
APPENDIX B.4: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH	18
2.4GHz SDR, 1.4MHz BW	18
2.4GHz SDR, 1.4MHz BW CA mode	22
2.4GHz SDR, 3MHz BW	26
2.4GHz SDR, 10MHz BW	30
2.4GHz SDR, 20MHz BW	34
2.4GHz SDR, 1.4MHz BW Bandedge	38
2.4GHz SDR, 1.4MHz BW CA mode Bandedge	39
2.4GHz SDR, 3MHz BW Bandedge	40
2.4GHz SDR, 10MHz BW Bandedge	41
2.4GHz SDR, 20MHz BW Bandedge	42
APPENDIX B.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	43
30MHz - 1GHz (Worst case)	43
1GHz - 18GHz	45

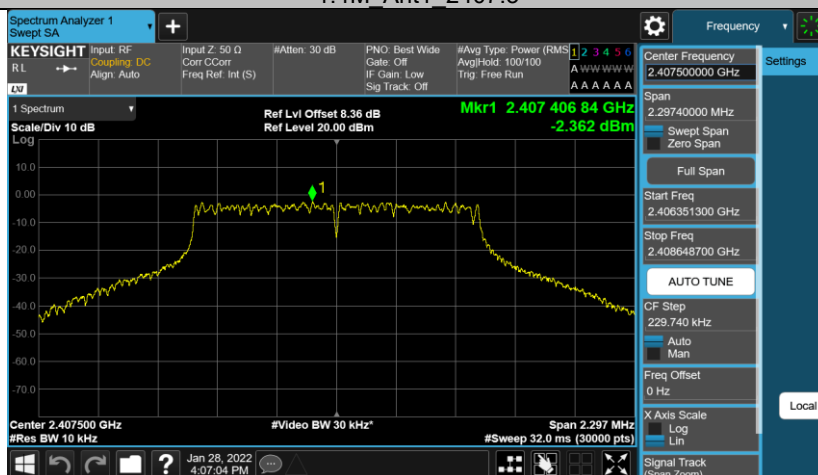
Appendix B.1: Test Results of Conducted Power Spectral Density

Both Ant ports tested, only the worst-case reported.

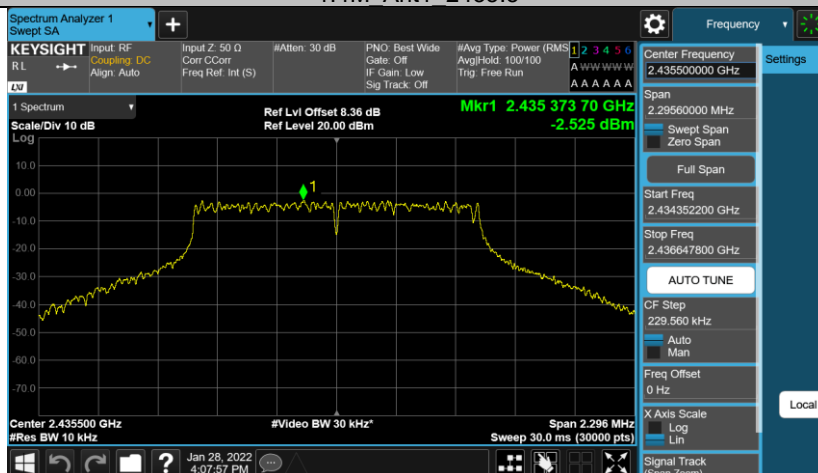
2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
1.4M	Ant1	2407.5	-2.36	≤8.00	PASS
		2435.5	-2.53	≤8.00	PASS
		2465.5	-2.4	≤8.00	PASS

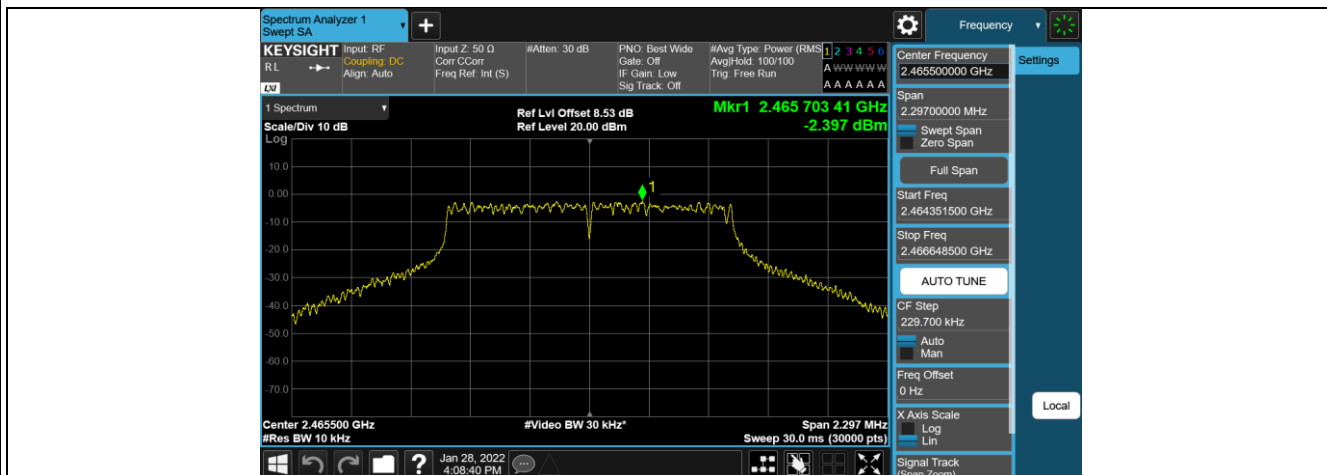
1.4M Ant1 2407.5



1.4M Ant1 2435.5



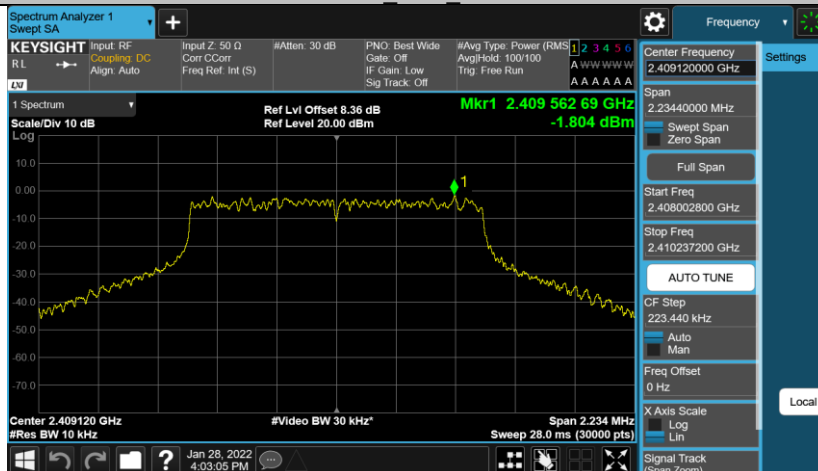
1.4M Ant1 2465.5



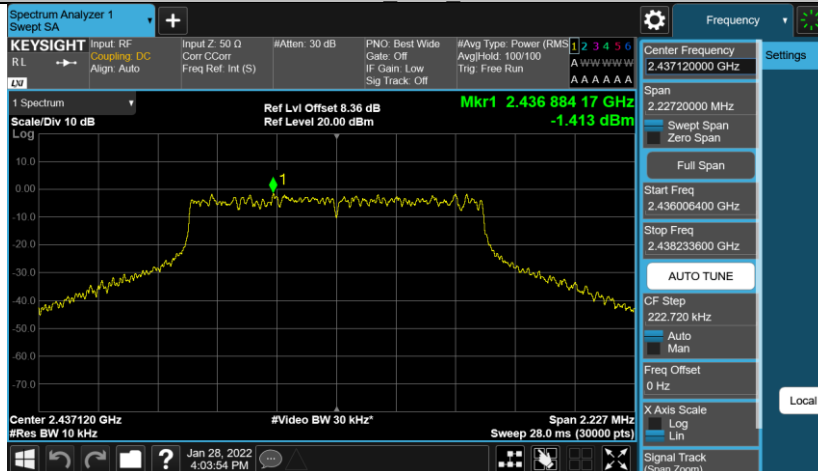
2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
1.4M-CA	Ant1	2409.12	-1.8	≤8.00	PASS
		2437.12	-1.41	≤8.00	PASS
		2467.12	-1.73	≤8.00	PASS

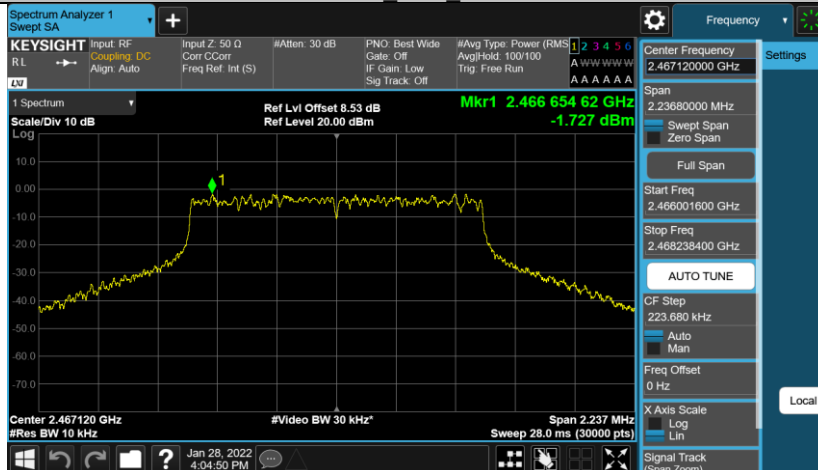
1.4M-CA Ant1 2409.12



1.4M-CA Ant1 2437.12

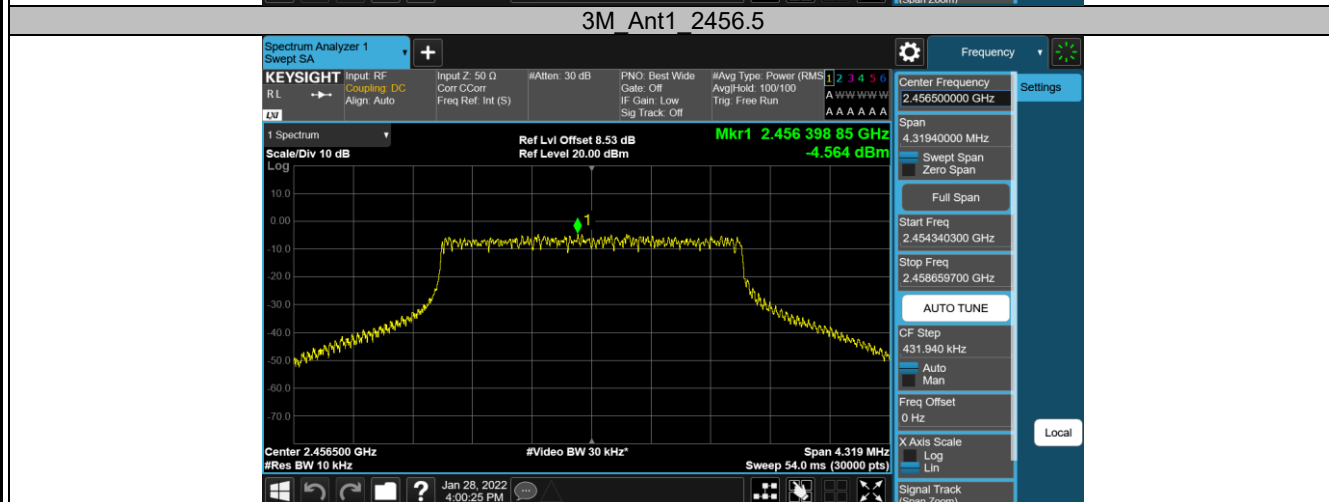
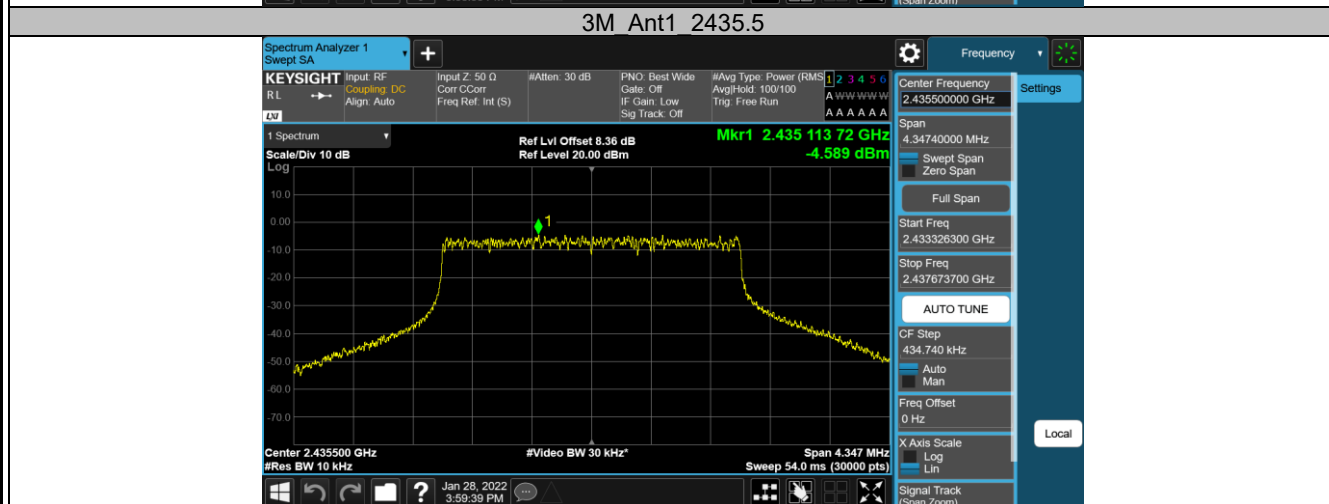
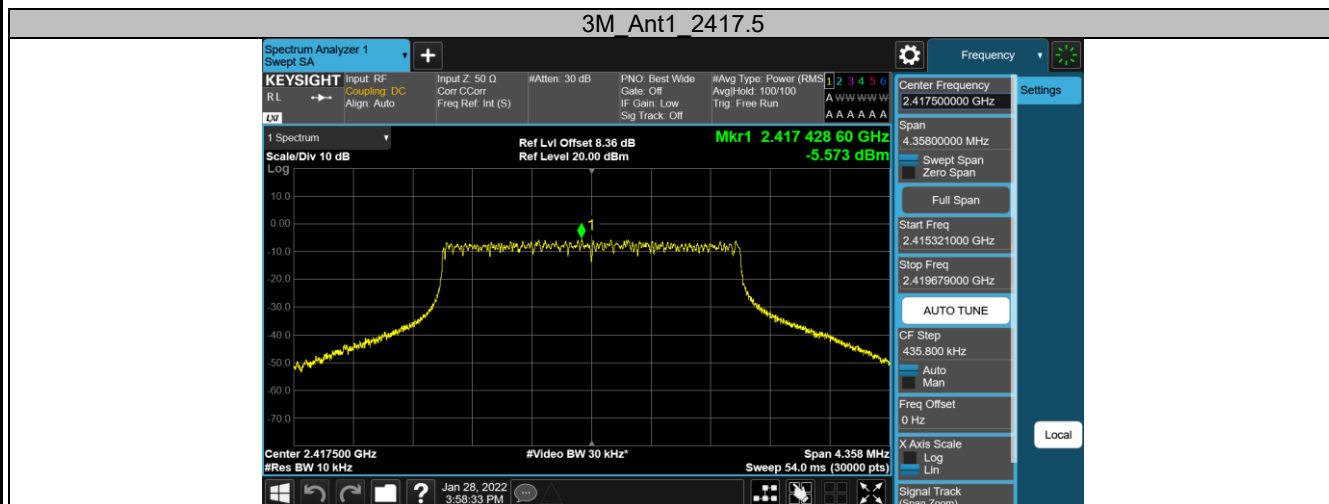


1.4M-CA Ant1 2467.12



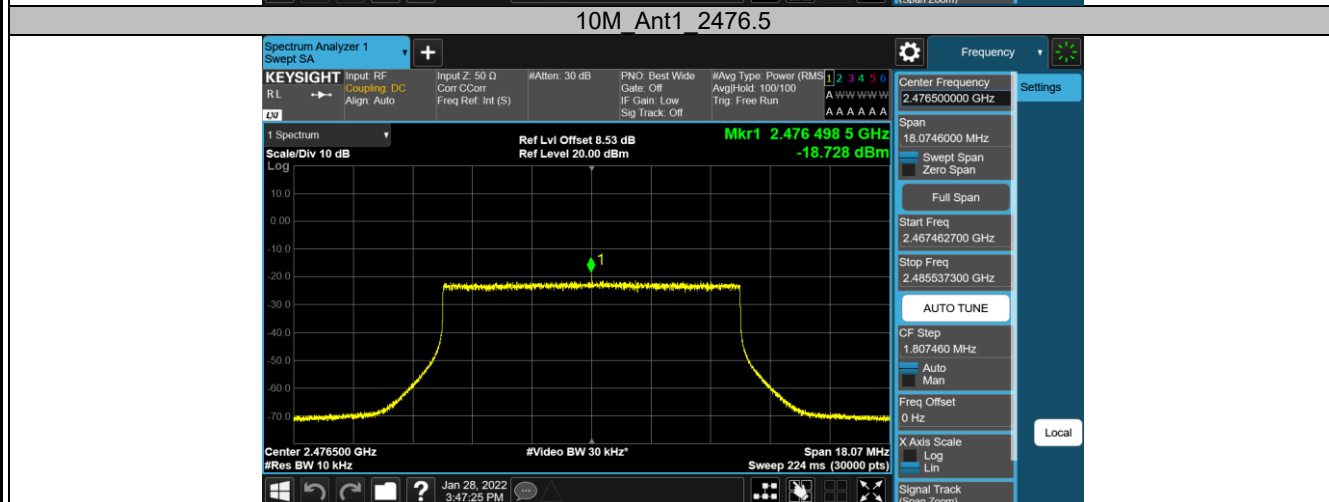
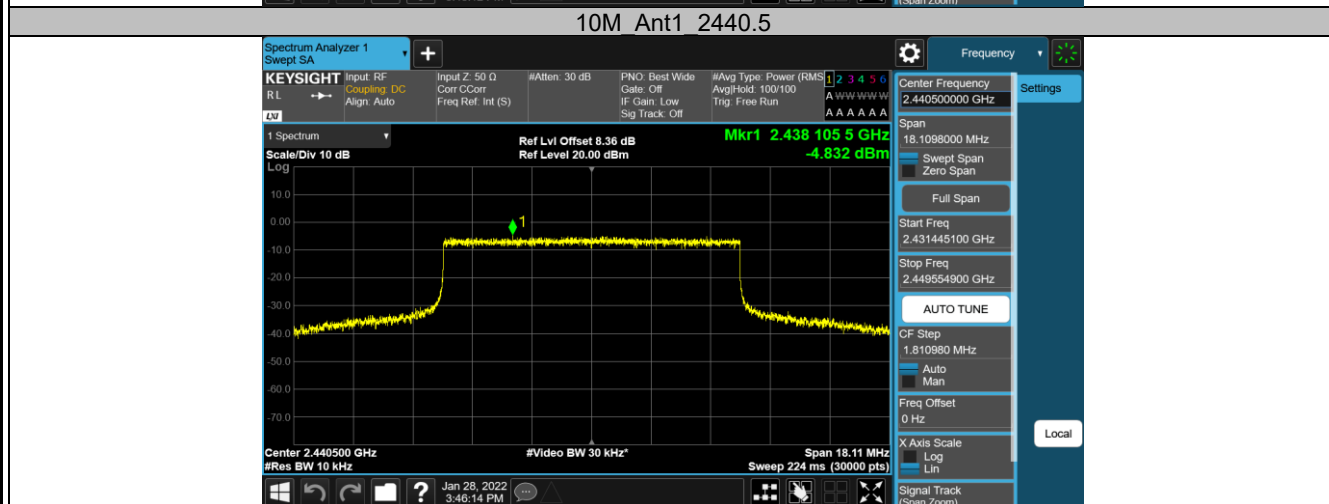
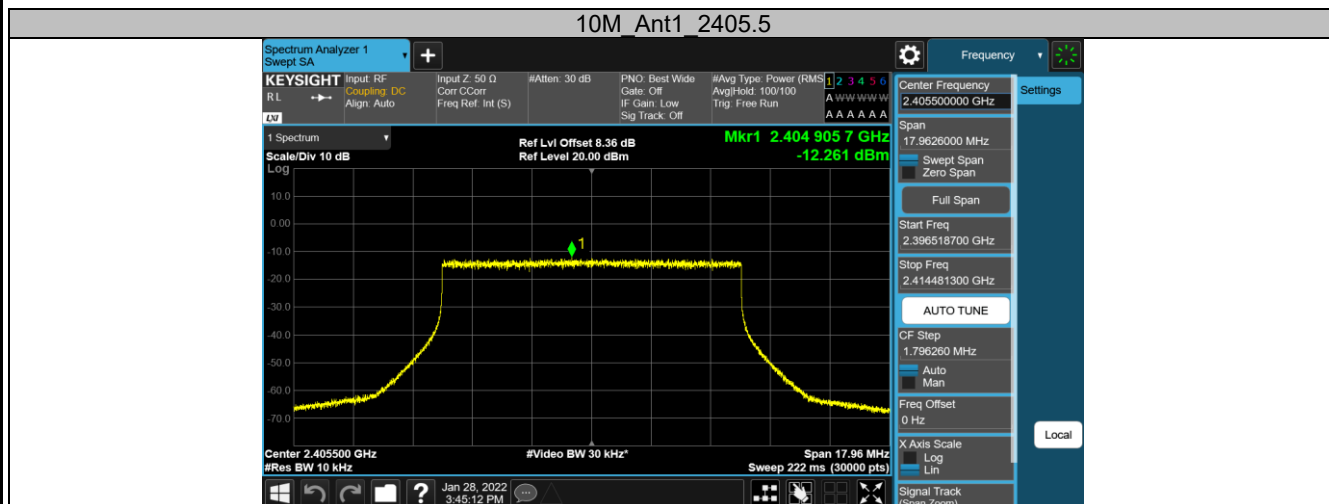
2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
3M	Ant1	2417.5	-5.57	≤8.00	PASS
		2435.5	-4.59	≤8.00	PASS
		2456.5	-4.56	≤8.00	PASS



2.4GHz SDR, 10MHz BW

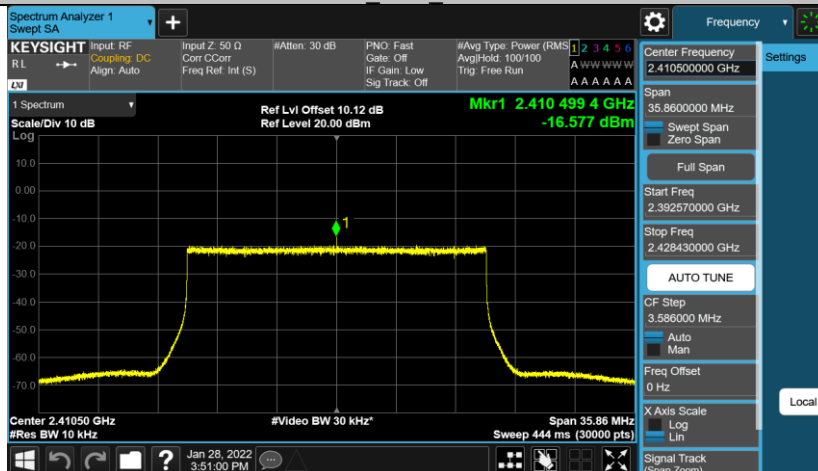
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
10M	Ant1	2405.5	-12.26	≤8.00	PASS
		2440.5	-4.83	≤8.00	PASS
		2476.5	-18.73	≤8.00	PASS



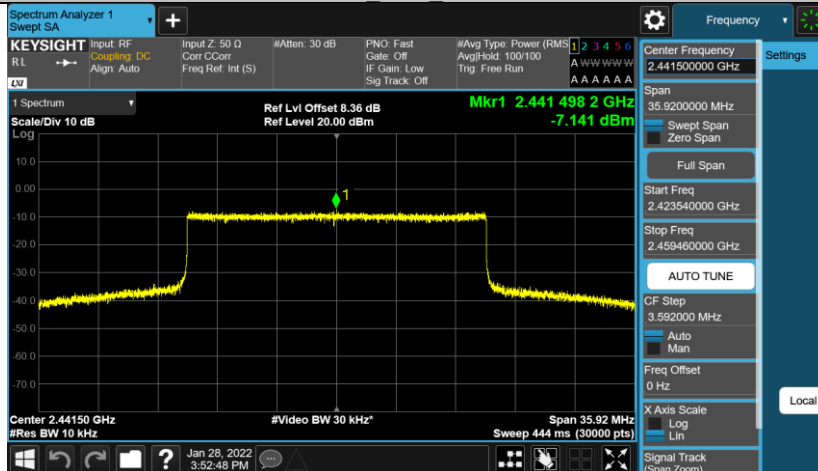
2.4GHz SDR, 20MHz BW

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
20M	Ant1	2410.5	-16.58	≤8.00	PASS
		2441.5	-7.14	≤8.00	PASS
		2472.5	-19.6	≤8.00	PASS

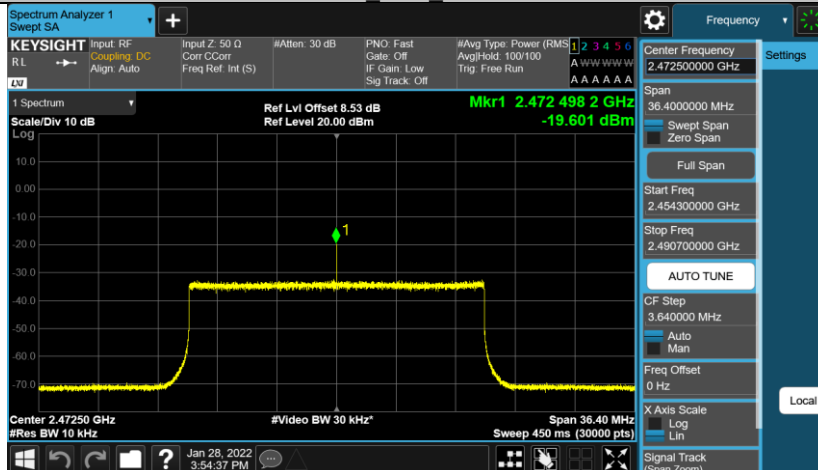
20M Ant1 2410.5



20M Ant1 2441.5



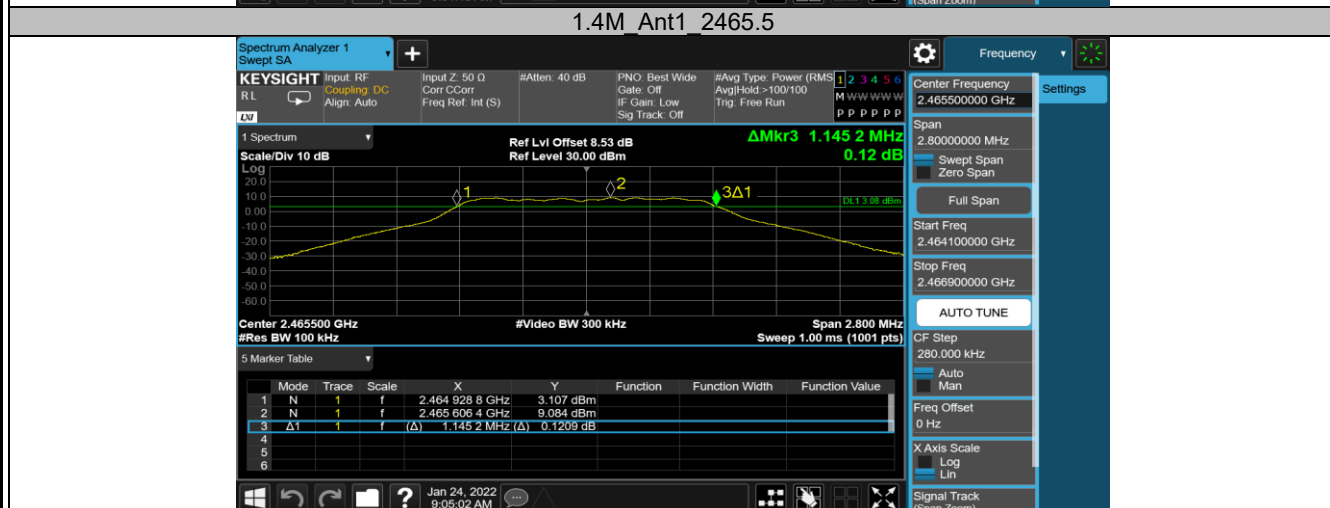
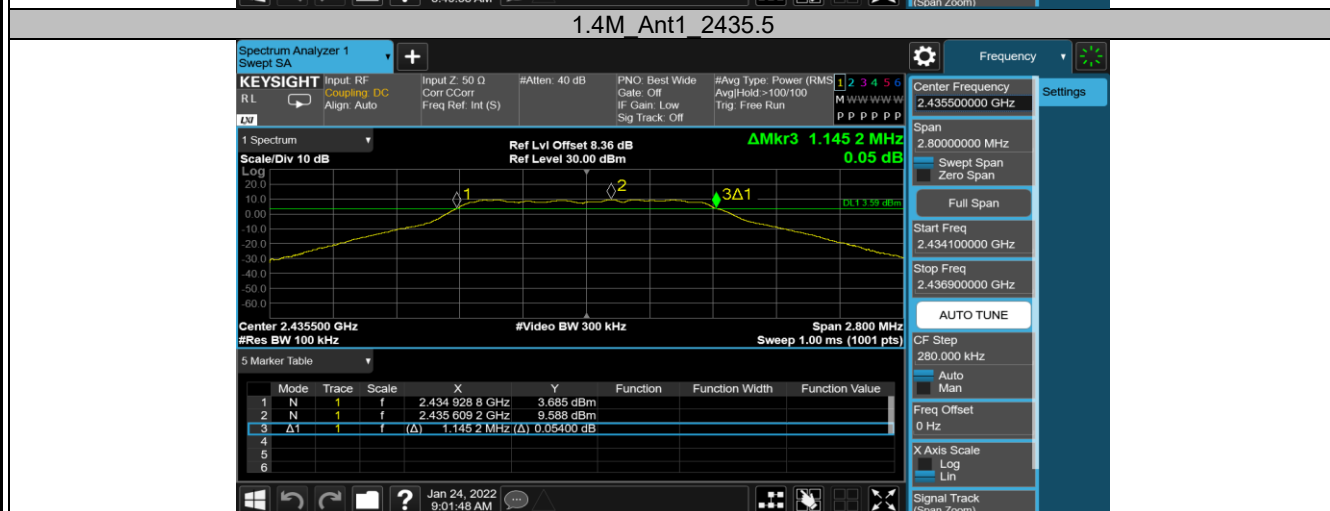
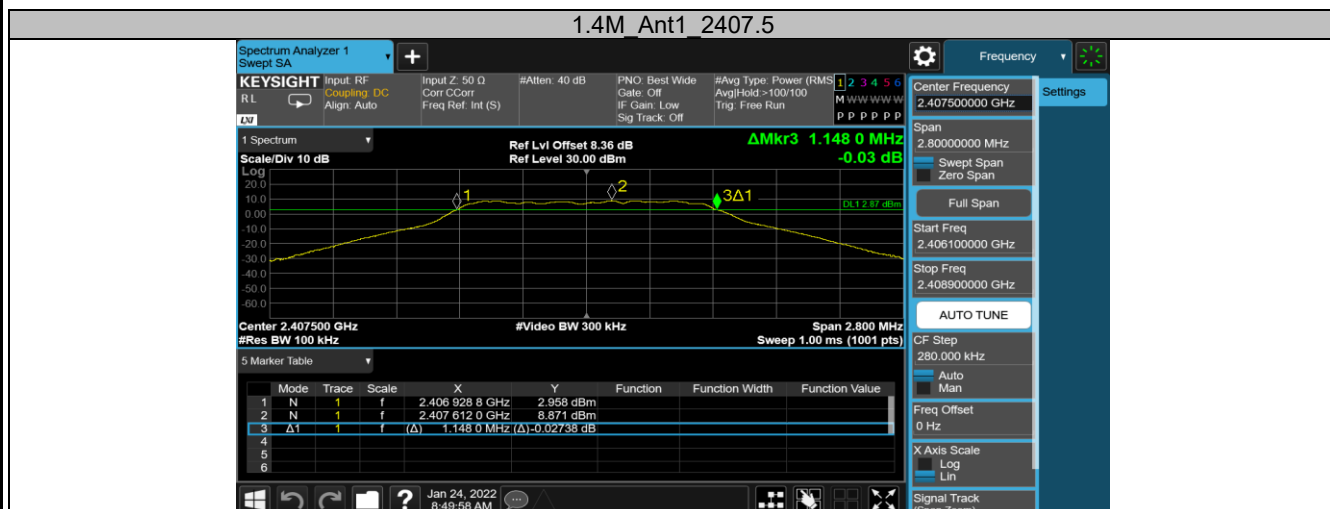
20M Ant1 2472.5



Appendix B.2: Test Results of 6dB Bandwidth

2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M	Ant1	2407.5	1.148	2406.929	2408.077	0.5	PASS
		2435.5	1.145	2434.929	2436.074	0.5	PASS
		2465.5	1.145	2464.929	2466.074	0.5	PASS



2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-CA	Ant1	2409.12	1.100	2408.563	2409.663	0.5	PASS
		2437.12	1.100	2436.563	2437.663	0.5	PASS
		2467.12	1.100	2466.566	2467.666	0.5	PASS

1.4M-CA Ant1 2409.12



1.4M-CA Ant1 2437.12



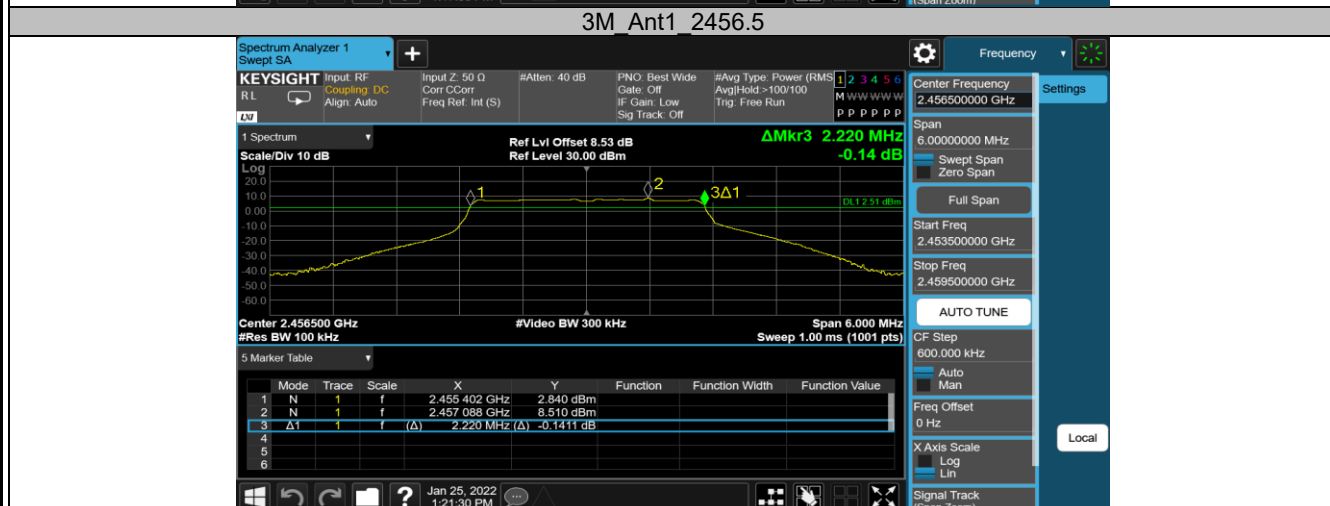
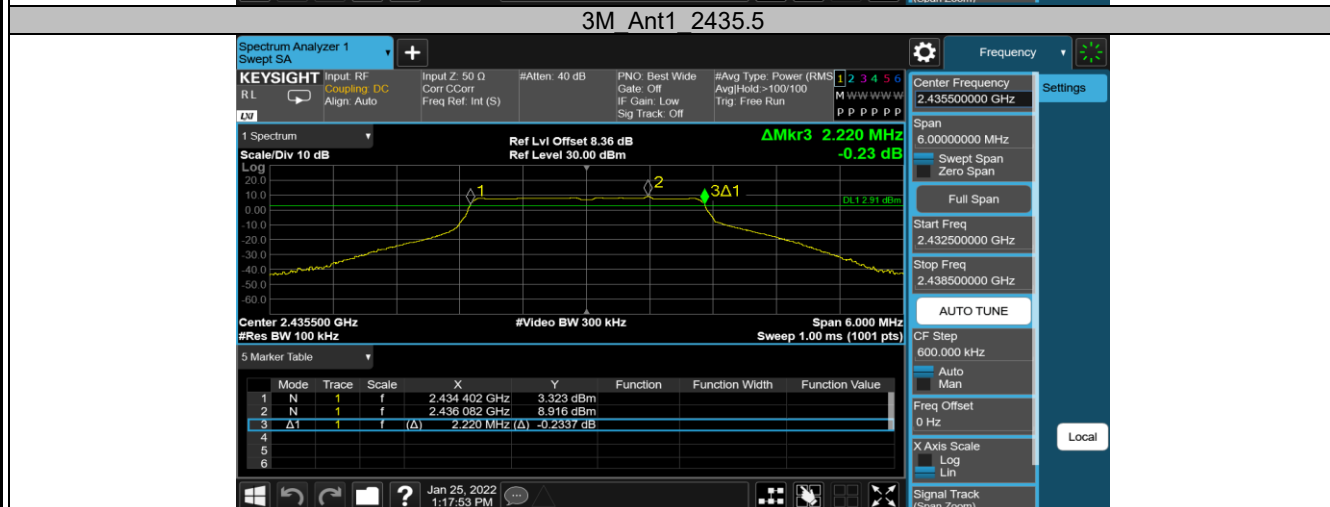
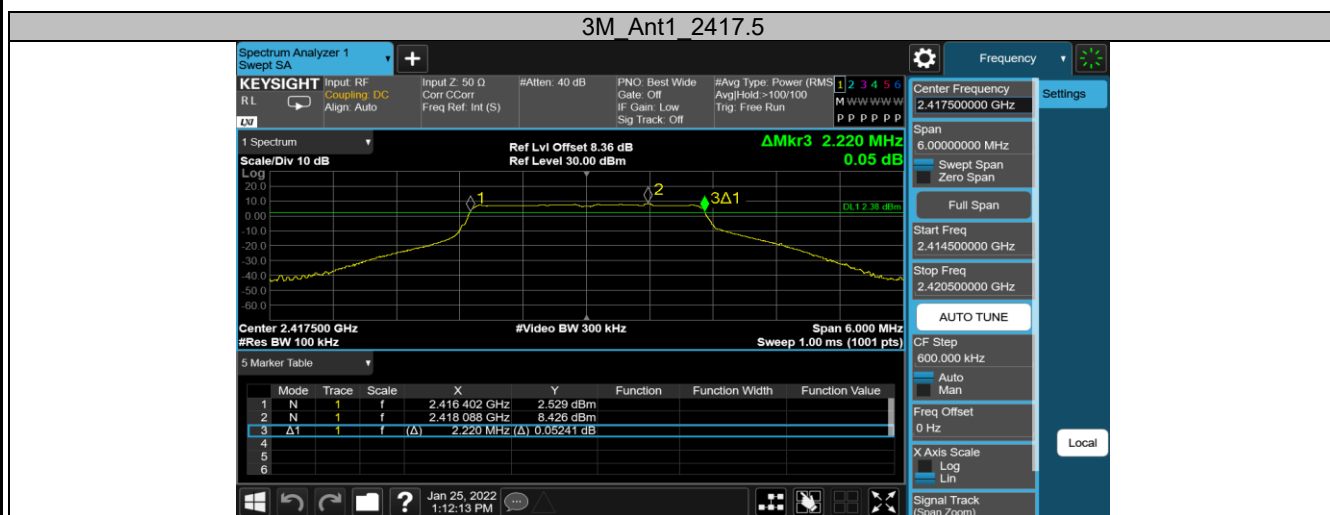
1.4M-CA Ant1 2467.12



Prüfbericht - Produkte
Test Report - Products

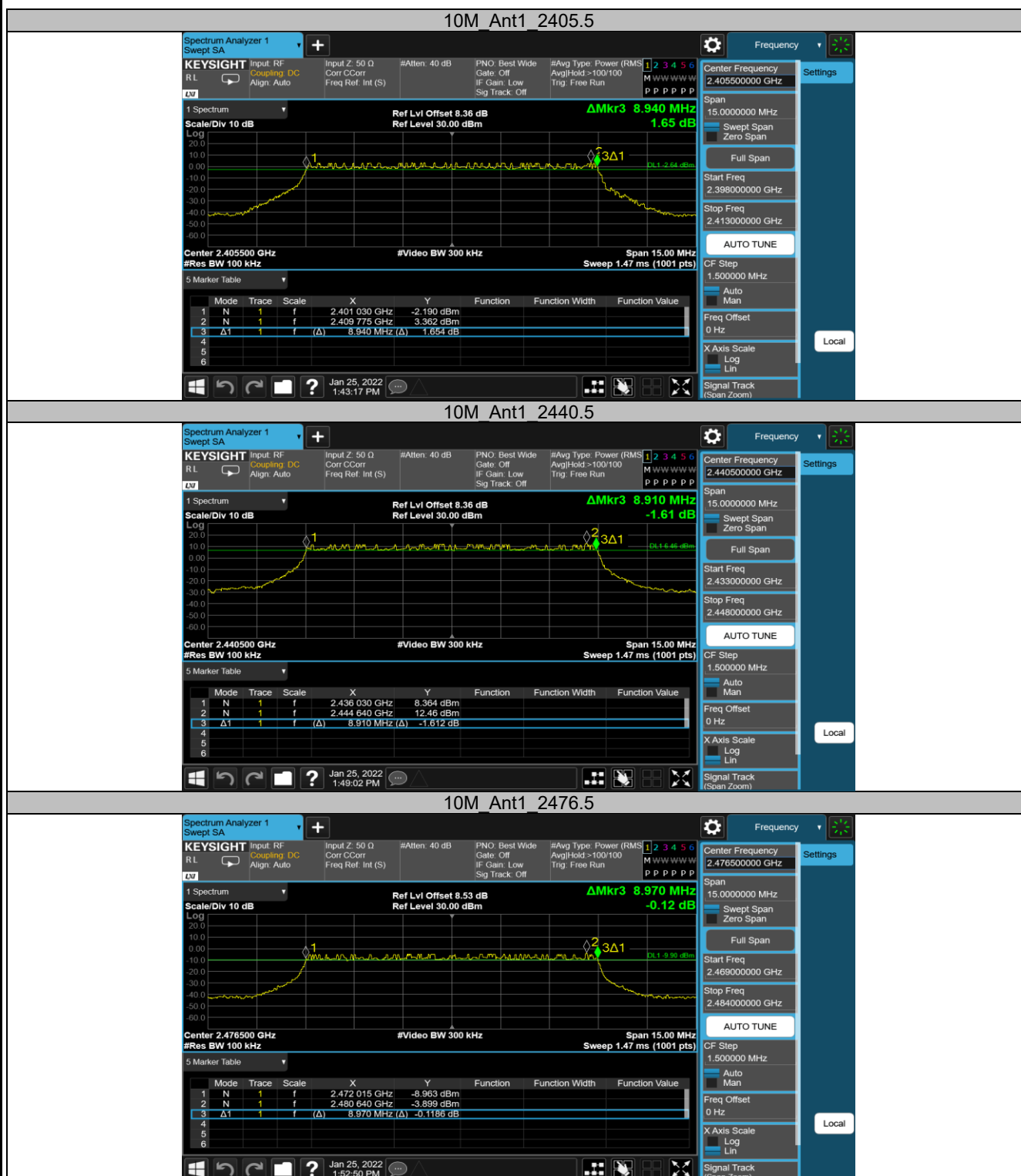
2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M	Ant1	2417.5	2.220	2416.402	2418.622	0.5	PASS
		2435.5	2.220	2434.402	2436.622	0.5	PASS
		2456.5	2.220	2455.402	2457.622	0.5	PASS



2.4GHz SDR, 10MHz BW

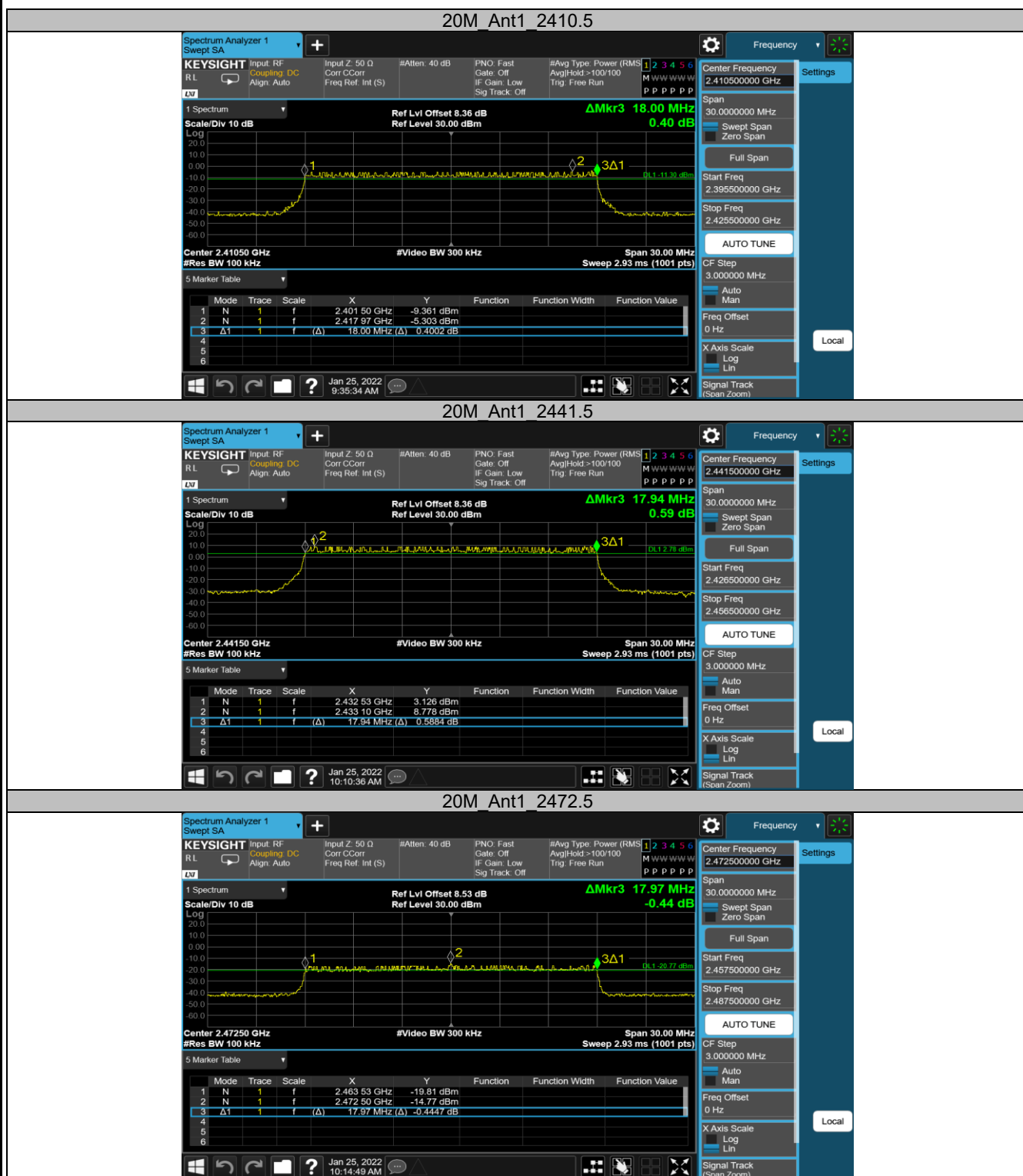
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
10M	Ant1	2405.5	8.940	2401.030	2409.970	0.5	PASS
		2440.5	8.910	2436.030	2444.940	0.5	PASS
		2476.5	8.970	2472.015	2480.985	0.5	PASS



Prüfbericht - Produkte
Test Report - Products

2.4GHz SDR, 20MHz BW

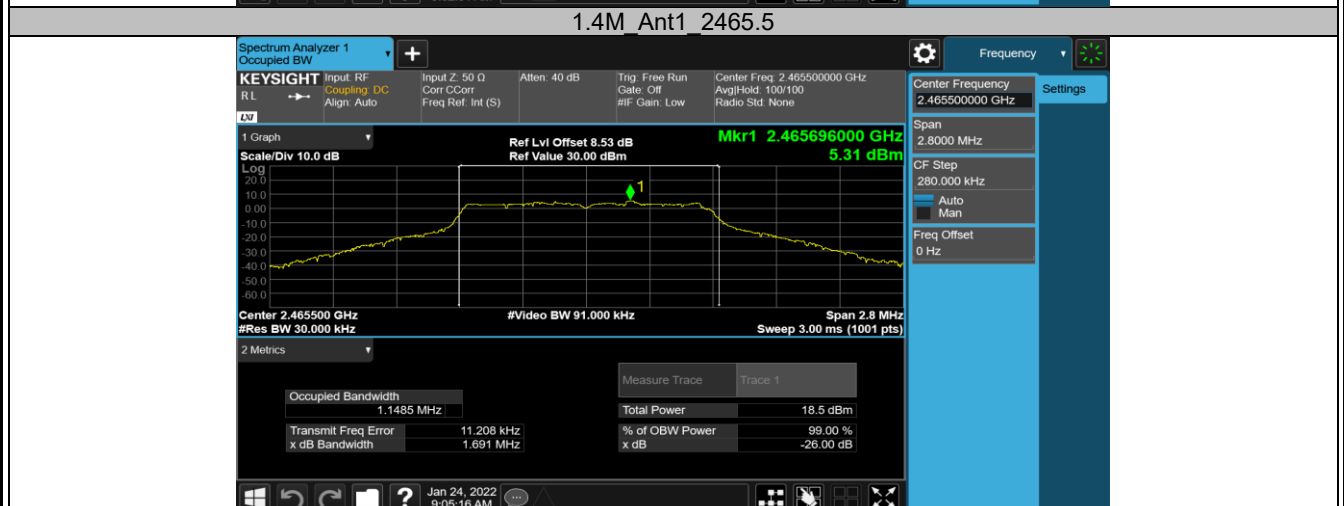
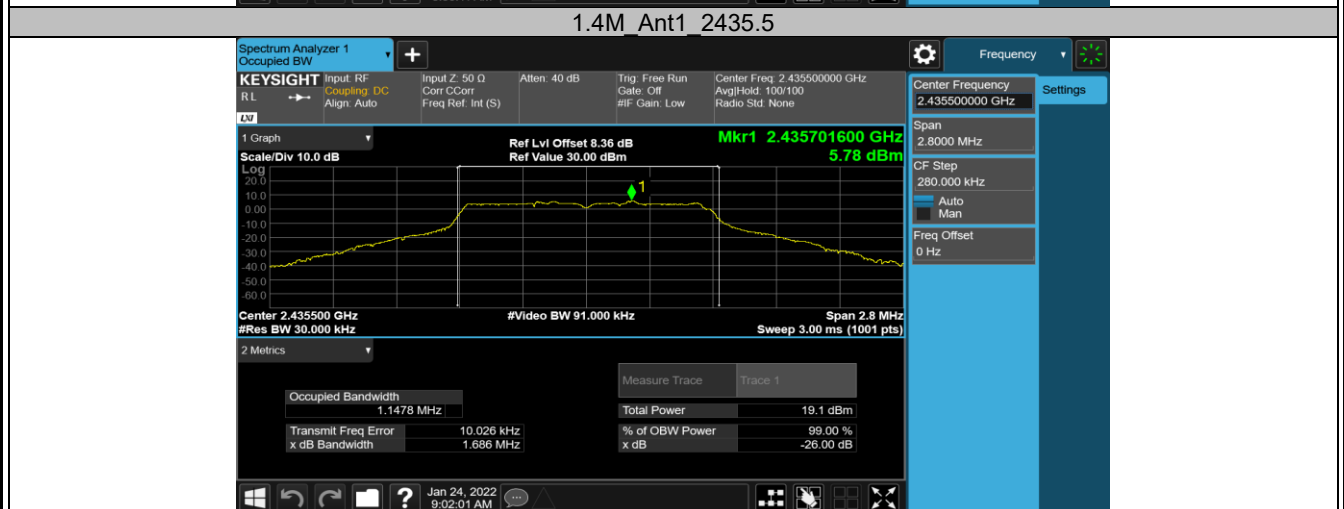
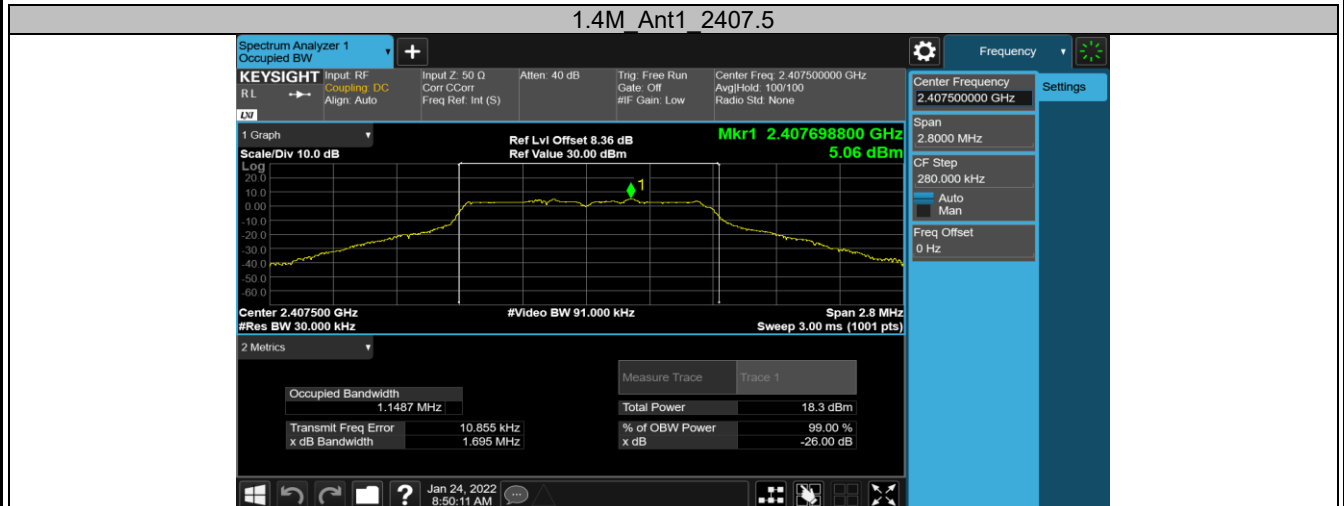
TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
20M	Ant1	2410.5	18.000	2401.500	2419.500	0.5	PASS
		2441.5	17.940	2432.530	2450.470	0.5	PASS
		2472.5	17.970	2463.530	2481.500	0.5	PASS



Appendix B.3: Test Results of 99% Bandwidth

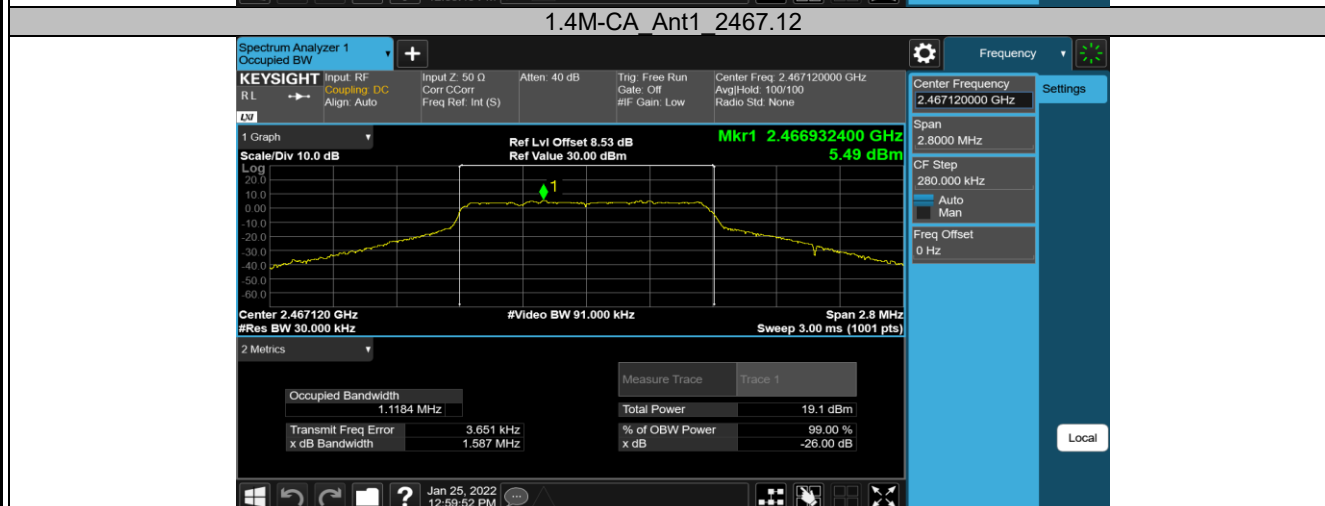
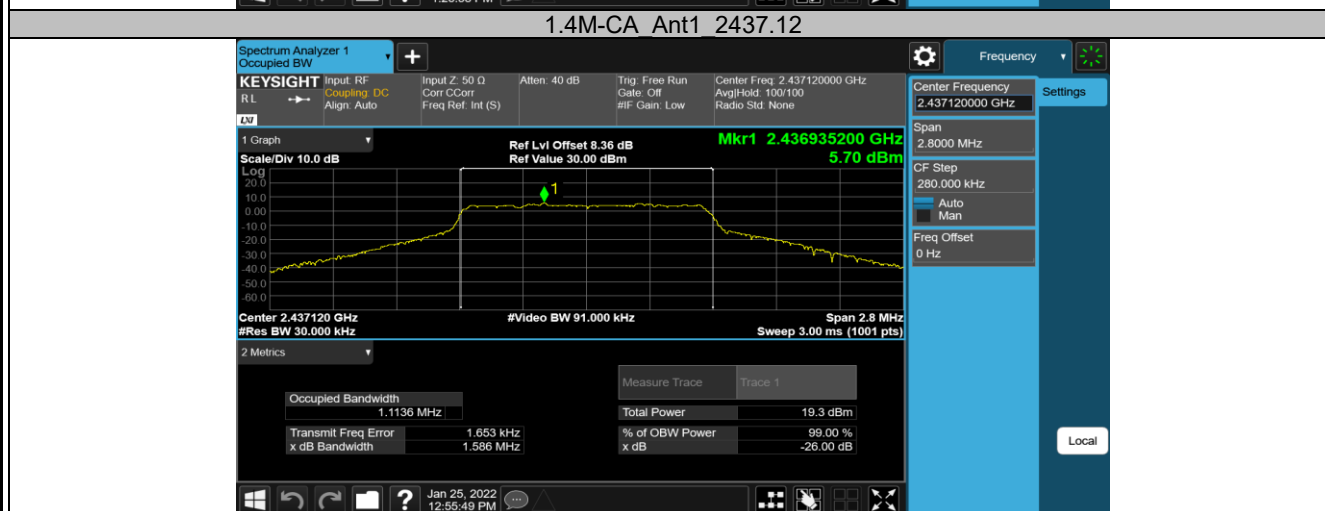
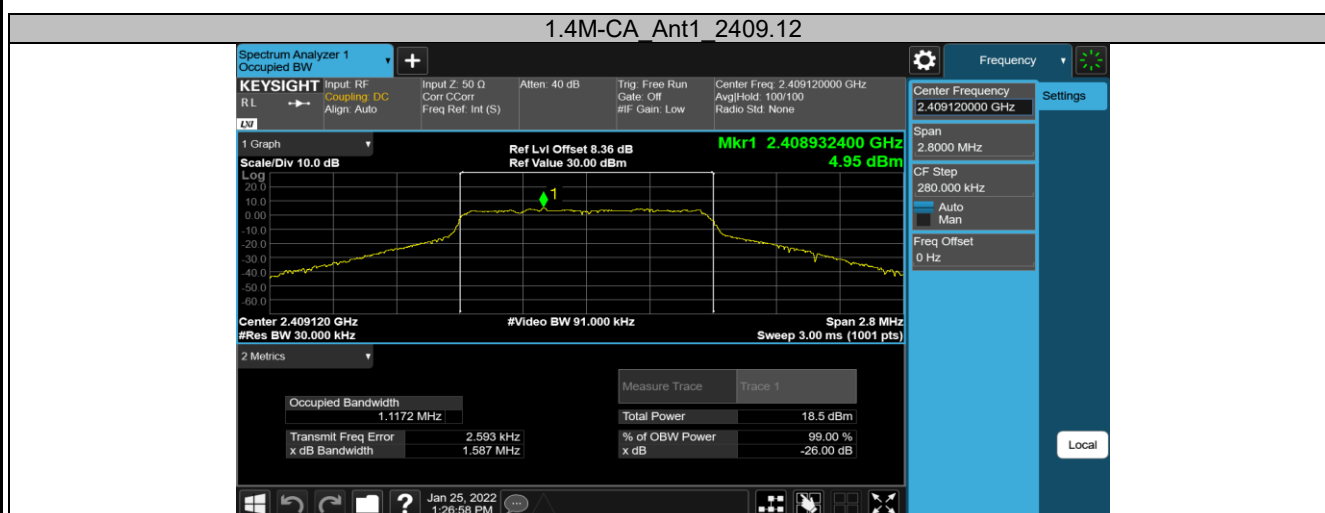
2.4GHz SDR, 1.4MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M	Ant1	2407.5	1.1487	2406.937	2408.085	---	PASS
		2435.5	1.1478	2434.936	2436.084	---	PASS
		2465.5	1.1485	2464.937	2466.085	---	PASS



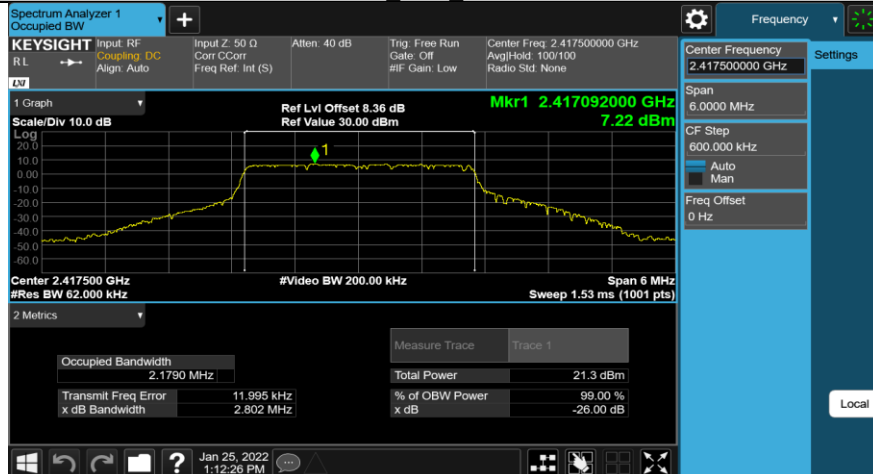
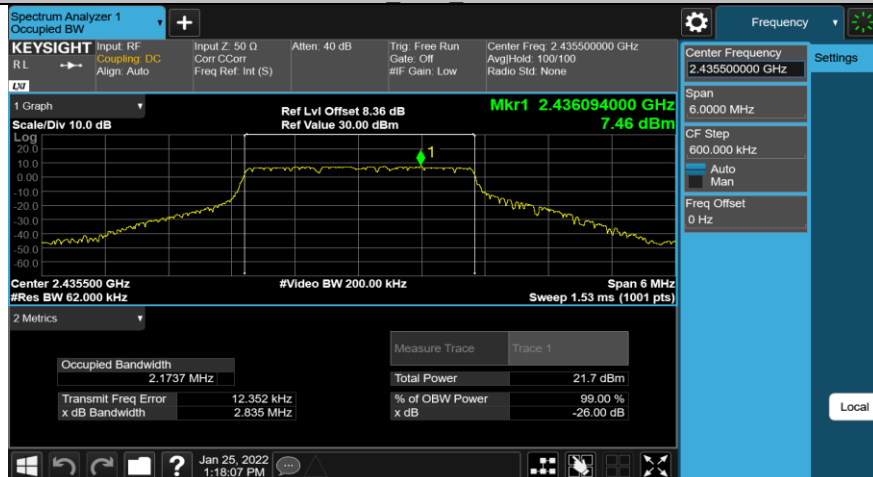
2.4GHz SDR, 1.4MHz BW CA mode

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-CA	Ant1	2409.12	1.1172	2408.564	2409.681	---	PASS
		2437.12	1.1136	2436.565	2437.678	---	PASS
		2467.12	1.1184	2466.564	2467.683	---	PASS



2.4GHz SDR, 3MHz BW

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
3M	Ant1	2417.5	2.1790	2416.422	2418.601	---	PASS
		2435.5	2.1737	2434.426	2436.599	---	PASS
		2456.5	2.1597	2455.428	2457.588	---	PASS

3M Ant1 2417.5**3M Ant1 2435.5****3M Ant1 2456.5**