

Appendix Test Data

Report No.:	18220WC20125701	Test Sample No.:	1-2-2
Start Test Date:	2022.6.14	Finish Test Date:	2022.6.21
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56.5 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.676	2402.352	≥0.5	PASS
		2440	0.676	2439.668	2440.344	≥0.5	PASS
		2480	0.676	2479.672	2480.348	≥0.5	PASS

Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



BLE_1M_Ant1_2480

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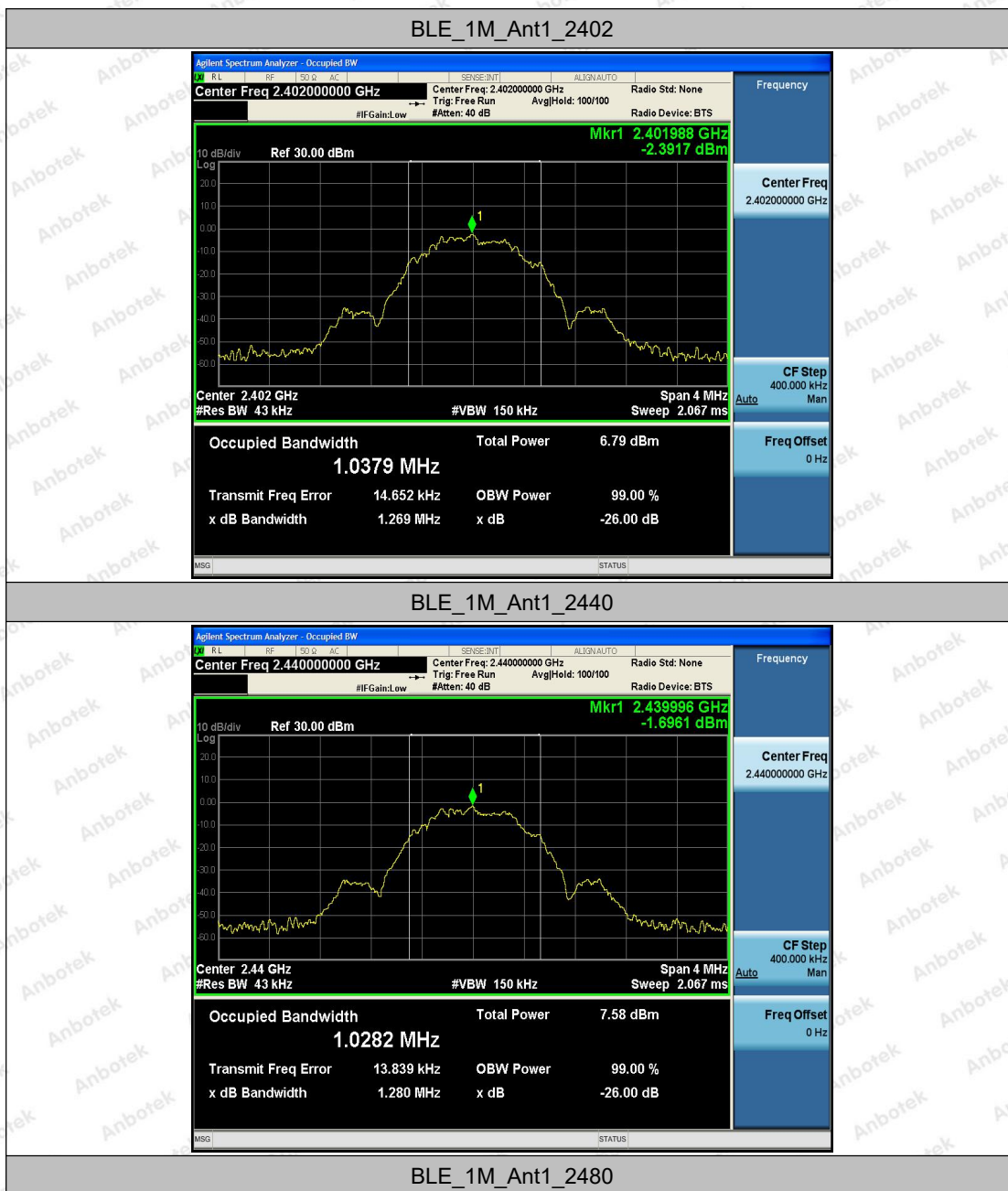
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0379	2401.496	2402.534	---	PASS
		2440	1.0282	2439.500	2440.528	---	PASS
		2480	1.0365	2479.496	2480.533	---	PASS

Test Graphs



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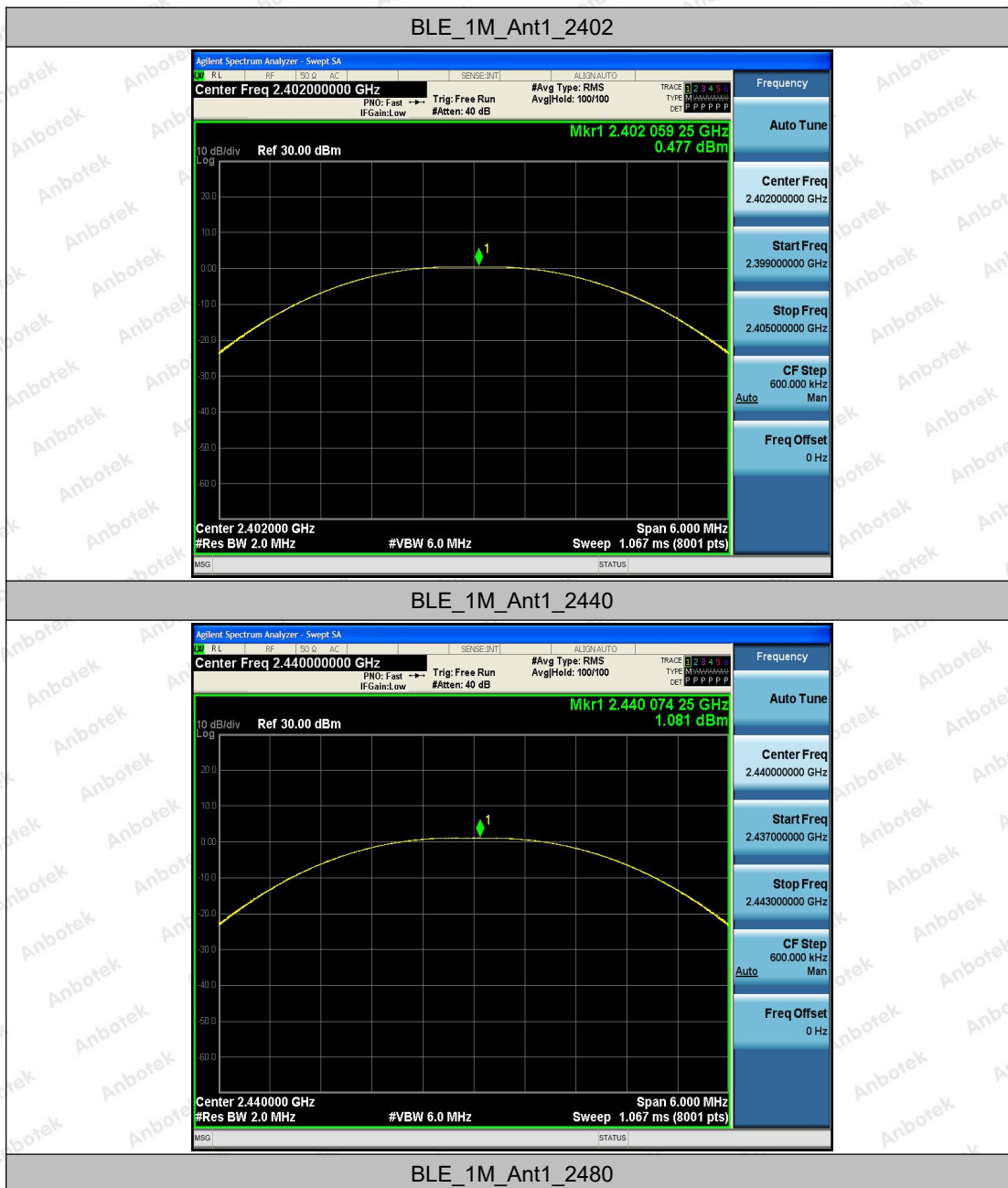
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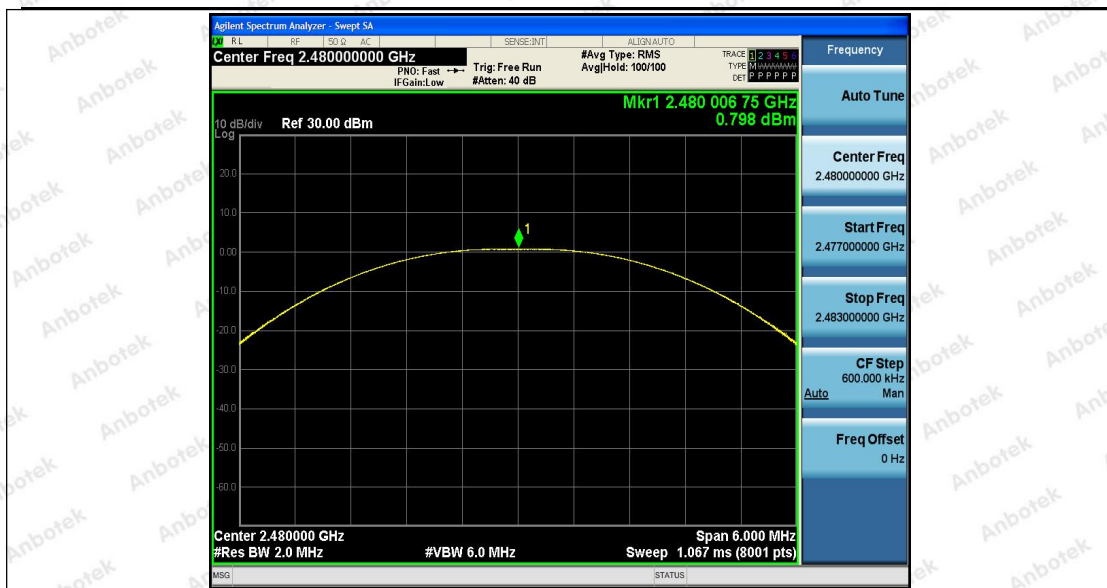
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0.48	≤30	PASS
		2440	1.08	≤30	PASS
		2480	0.8	≤30	PASS

Test Graphs





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Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-14.71	≤8	PASS
		2440	-14.24	≤8	PASS
		2480	-14.59	≤8	PASS

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Ref 20.00 dBm

Mkr1 2.401 982 67 GHz
-14.705 dBm

10 dB/div
Log

Center 2.4020000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Sweep 144.0 ms (30000 pts)

Span 1.352 MHz

Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.401324000 GHz

Stop Freq
2.402676000 GHz

CF Step
135.200 kHz
Man

Freq Offset
0 Hz

BLE_1M_Ant1_2402

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.440000000 GHz

Ref 20.00 dBm

Mkr1 2.439 983 35 GHz
-14.236 dBm

10 dB/div
Log

Center 2.4400000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Sweep 144.0 ms (30000 pts)

Span 1.352 MHz

Frequency

Auto Tune

Center Freq
2.440000000 GHz

Start Freq
2.439324000 GHz

Stop Freq
2.440676000 GHz

CF Step
135.200 kHz
Man

Freq Offset
0 Hz

BLE_1M_Ant1_2440

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.440000000 GHz

Ref 20.00 dBm

Mkr1 2.439 983 35 GHz
-14.236 dBm

10 dB/div
Log

Center 2.4400000 GHz
#Res BW 3.0 kHz
#VBW 10 kHz
Sweep 144.0 ms (30000 pts)

Span 1.352 MHz

Frequency

Auto Tune

Center Freq
2.440000000 GHz

Start Freq
2.439324000 GHz

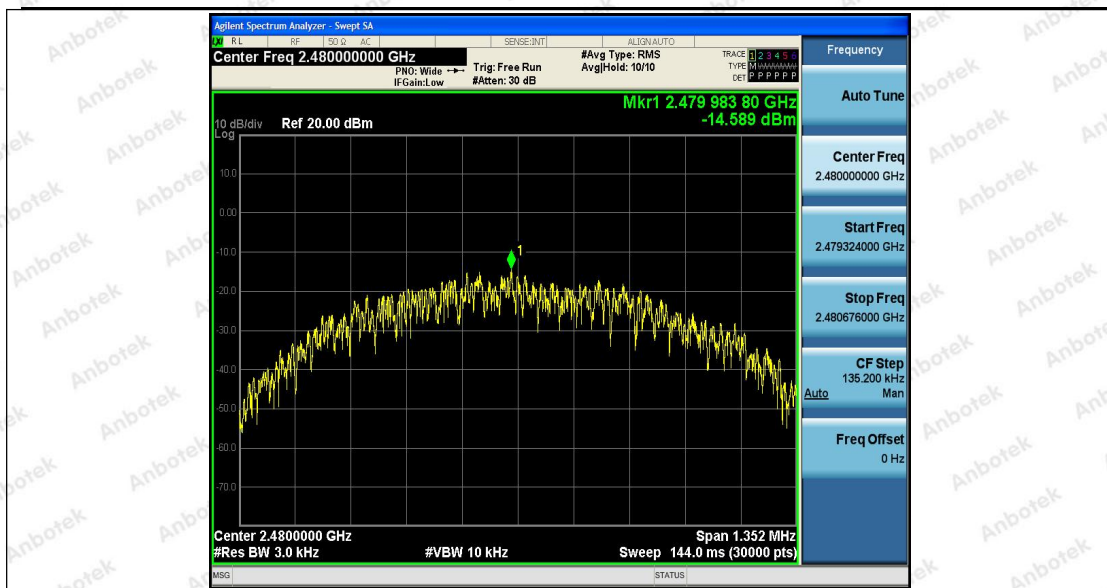
Stop Freq
2.440676000 GHz

CF Step
135.200 kHz
Man

Freq Offset
0 Hz

BLE_1M_Ant1_2480

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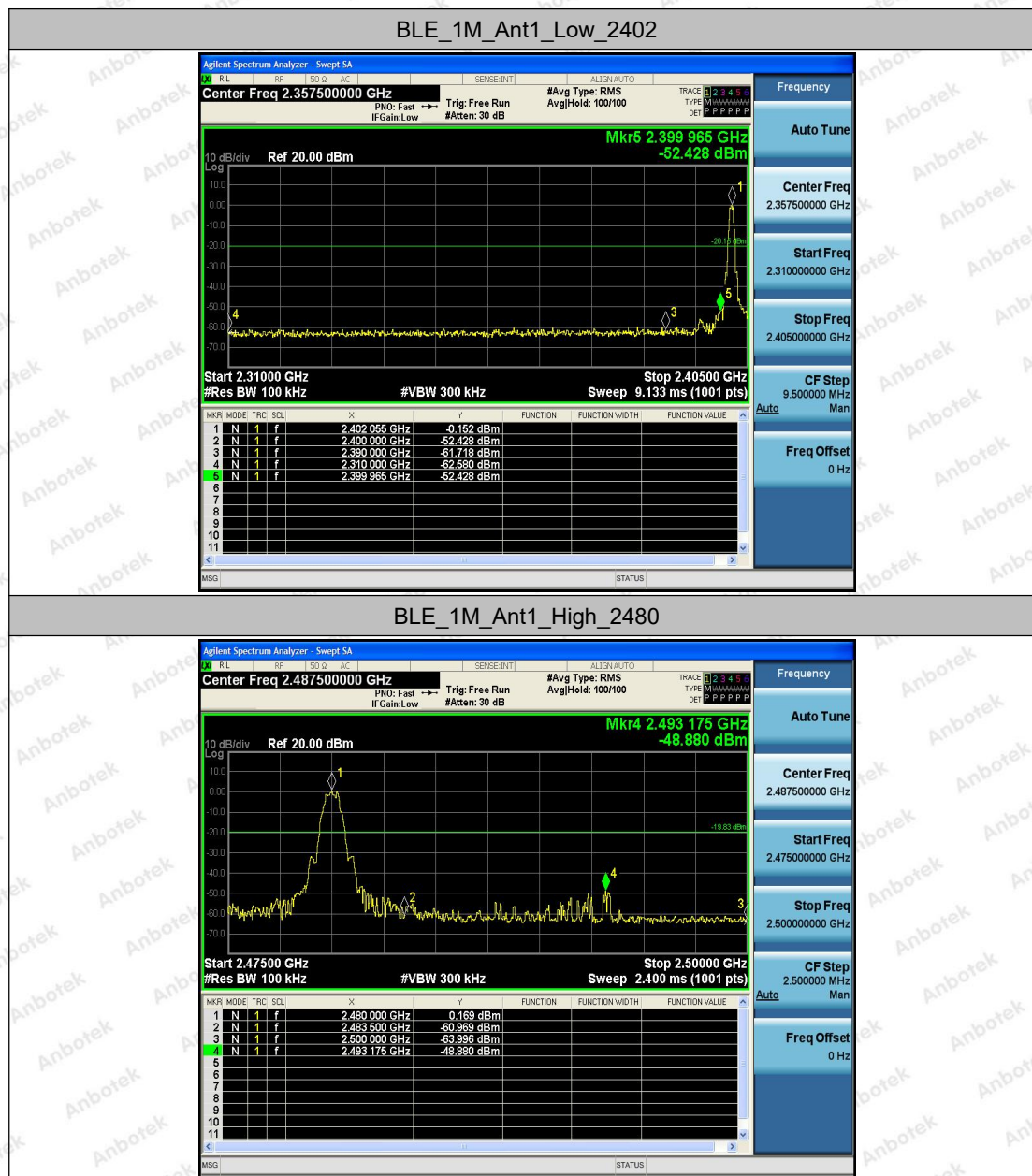
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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-0.15	-52.43	≤-20.15	PASS
		High	2480	0.17	-48.88	≤-19.83	PASS

Test Graphs



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Appendix F: Conducted Spurious Emission

Test Result

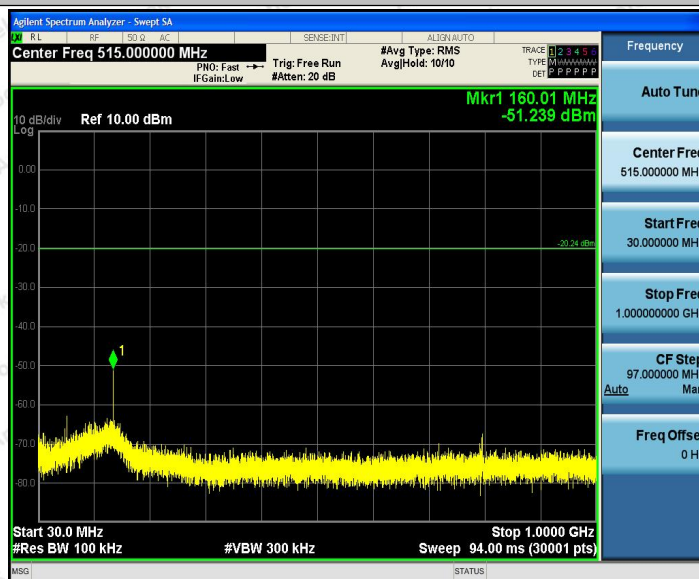
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-51.24	≤-20.24	PASS
			1000~26500	-0.24	-53.96	≤-20.24	PASS
		2440	Reference	0.23	0.23	---	PASS
			30~1000	0.23	-50.77	≤-19.77	PASS
			1000~26500	0.23	-52.72	≤-19.77	PASS
		2480	Reference	0.09	0.09	---	PASS
			30~1000	0.09	-50.96	≤-19.91	PASS
			1000~26500	0.09	-53.21	≤-19.91	PASS

Test Graphs

BLE_1M_Ant1_2402_0~Reference



BLE_1M_Ant1_2402_30~1000



BLE_1M_Ant1_2402_1000~26500

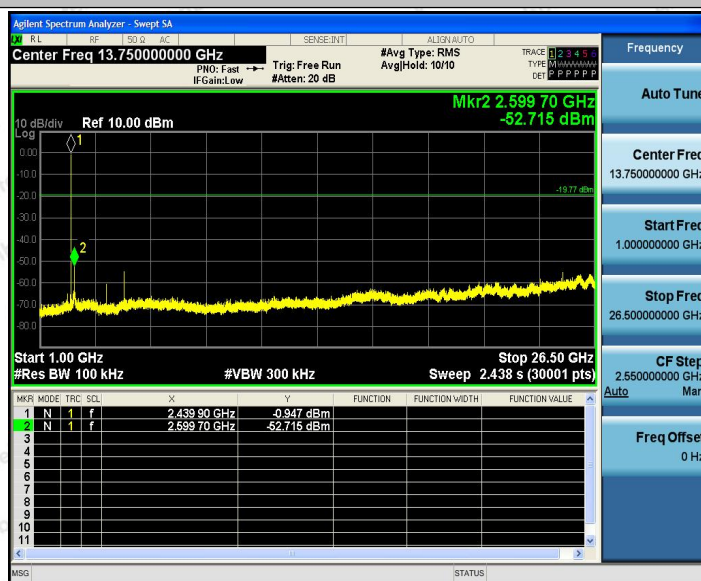


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BLE_1M_Ant1_2440_1000~26500



BLE_1M_Ant1_2480_0~Reference

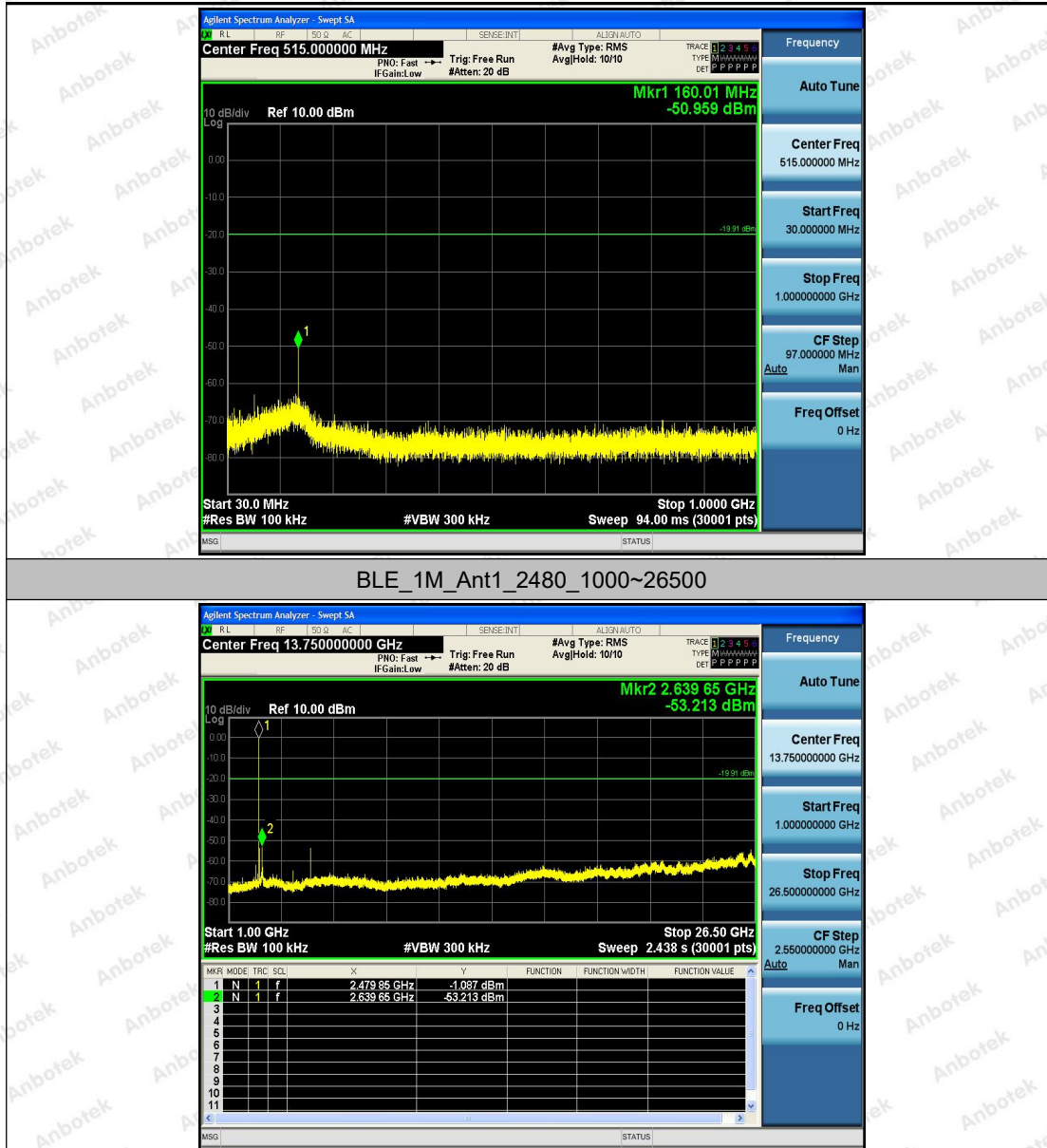


BLE_1M_Ant1_2480_30~1000

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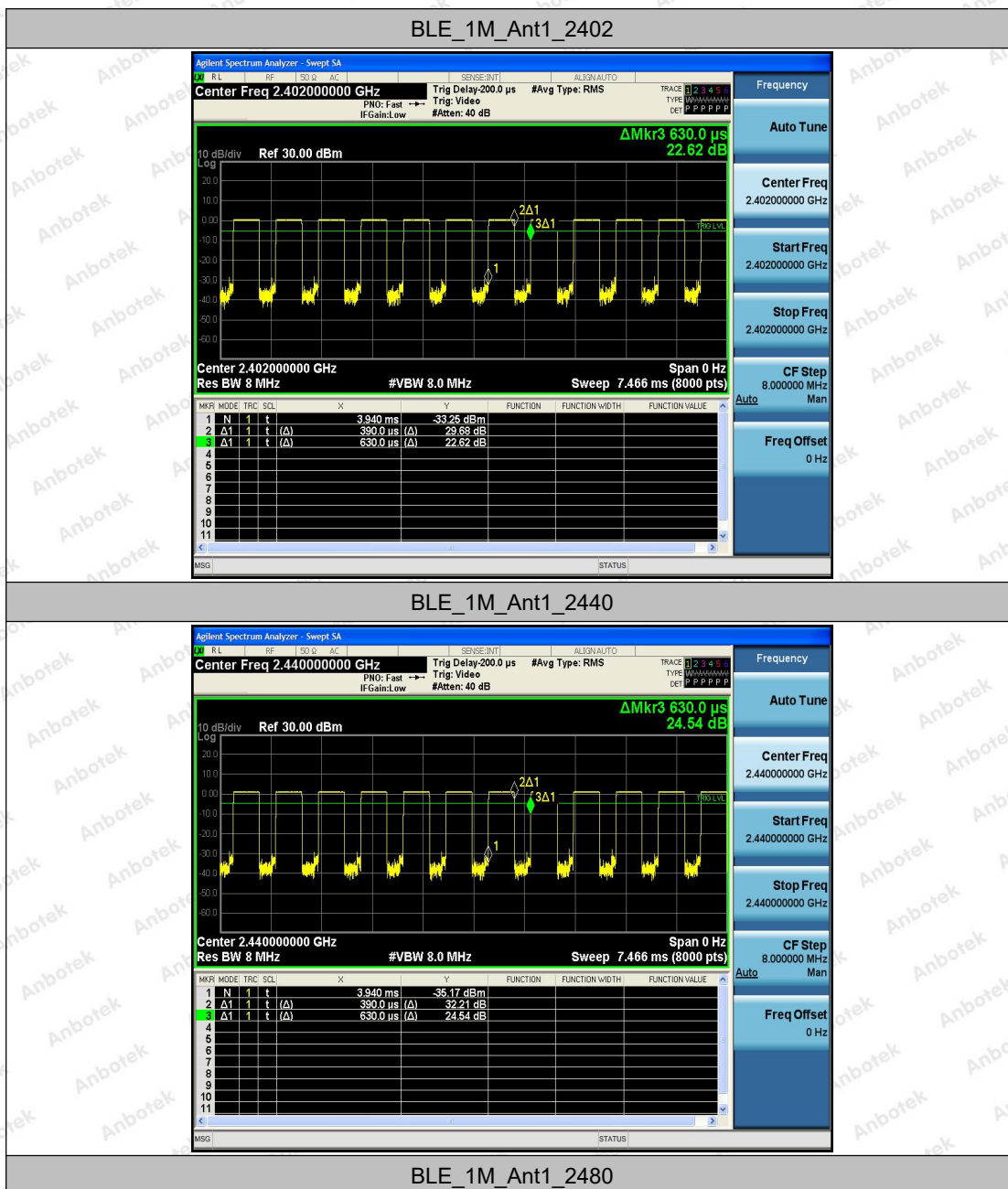
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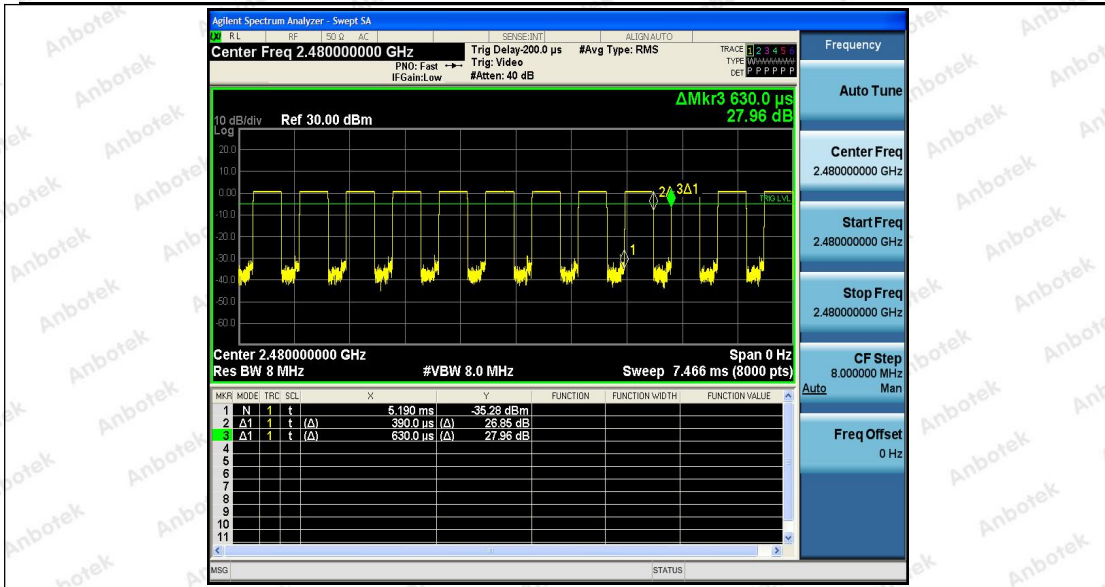
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
BLE_1M	Ant1	2402	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2440	0.39	0.63	0.6190	61.90	2.08	---	PASS
		2480	0.39	0.63	0.6190	61.90	2.08	---	PASS

Test Graphs





---End---