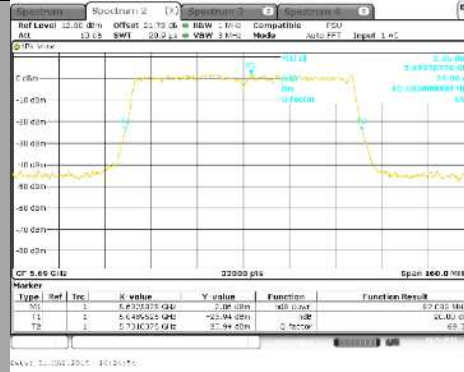




L C I E

802.11ac VHT80

C28



Channel	26dB Emission Bandwidth (MHz)
C24	81,71
C25	81,84
C26	81,45
C27	81,78
C28	82,09

5.6. CONCLUSION

26dB Emission Bandwidth measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD Ait US V2**, SN: **253764997**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407** limits.

6. 6dB EMISSION BANDWIDTH

6.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : May 31, 2018
Ambient temperature : 26 °C
Relative humidity : 42 %

6.2. TEST SETUP

- The Equipment Under Test is installed:

- On a table
- In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

- Conducted Method
- Radiated Method

- Test Procedure:

- KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § C2



Photograph for 6dB emission bandwidth



6.3. LIMIT

The 6dB bandwidth shall be at least 500kHz

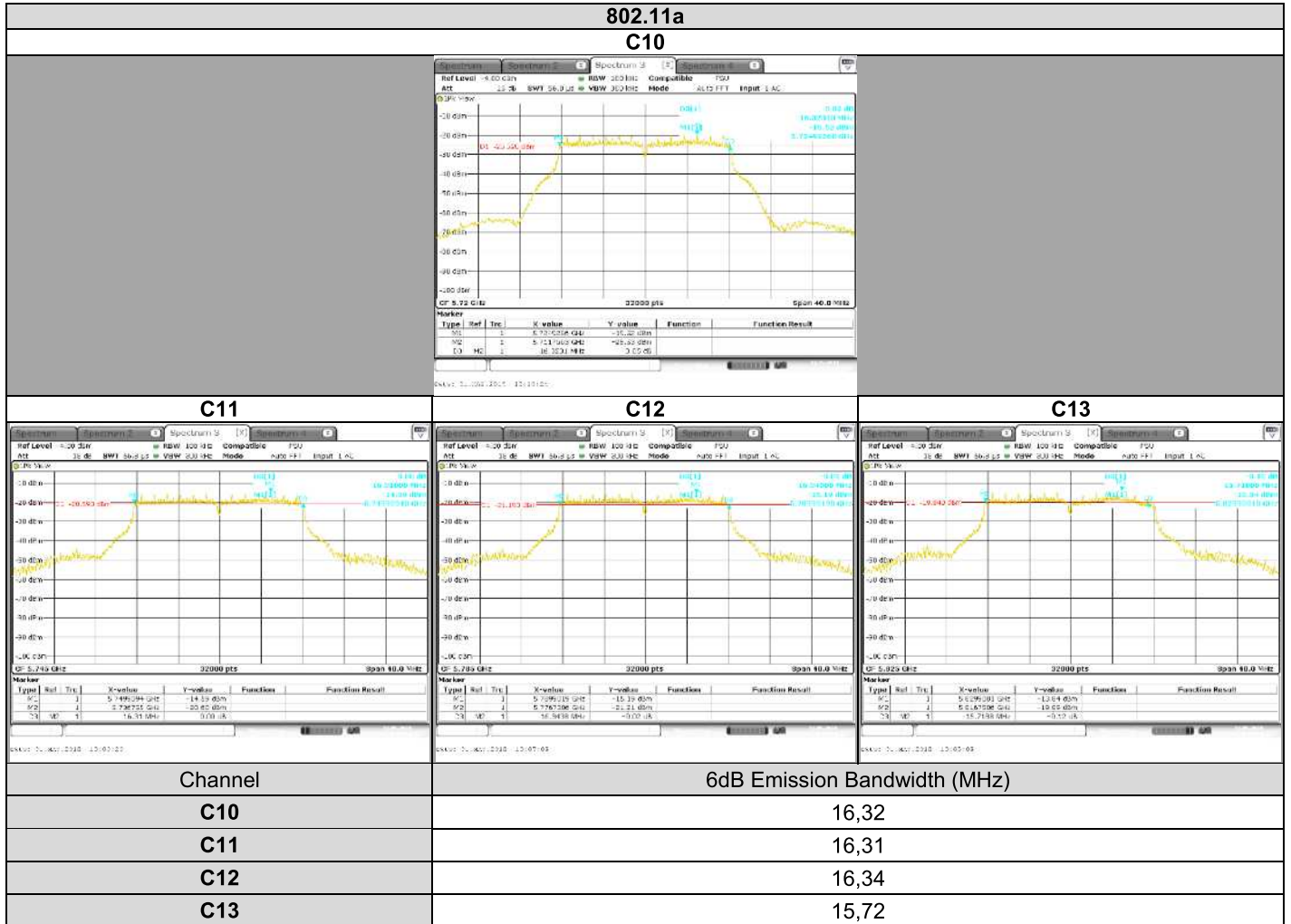
6.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2017/09	2018/09
Multi-meter	KEITHLEY	2000	A1242090	2017/05	2019/05
Programmable AC/DC power supply	KIKUSUI	PCR500M	A7040079	2017/05	2019/05
RF cable & 20 dB attenuator	Télédyne	920-0202-048	A5329676	2017/09	2018/09



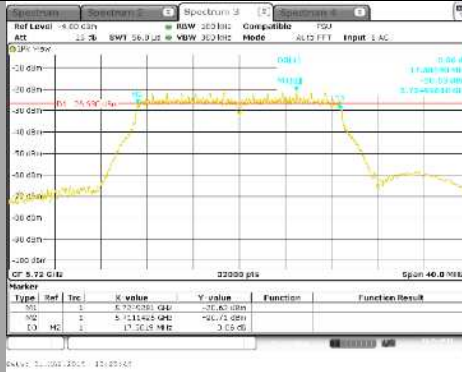
L C I E

6.5. RESULTS

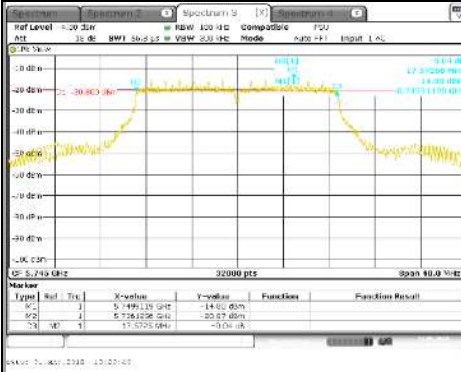


802.11n HT20/ac VHT20

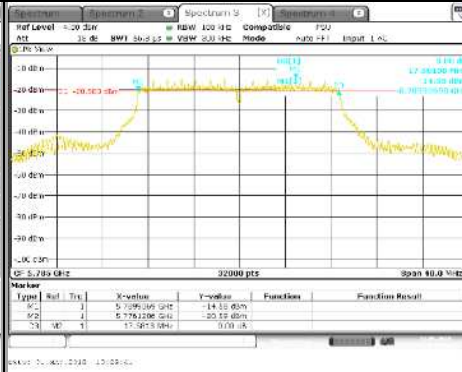
C10



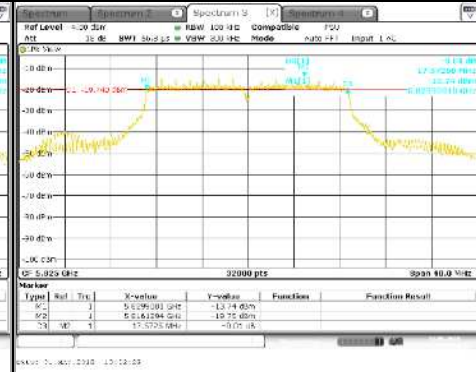
C11



C12



C13



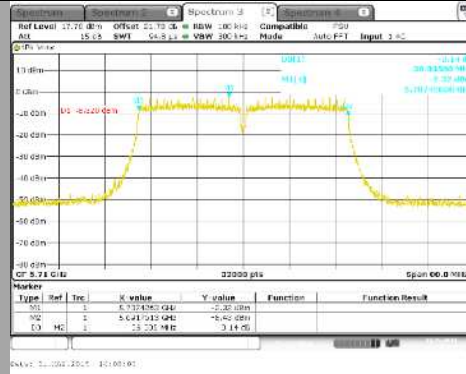
Channel	6dB Emission Bandwidth (MHz)
C10	17,58
C11	17,57
C12	17,58
C13	17,57



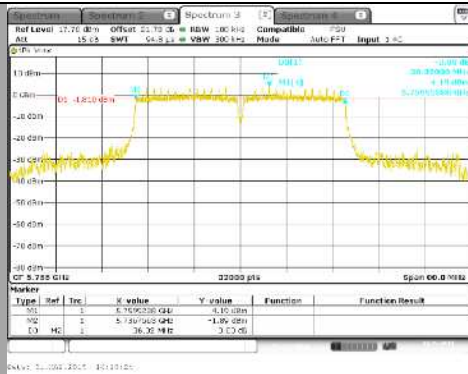
L C I E

802.11n HT40/ac VHT40

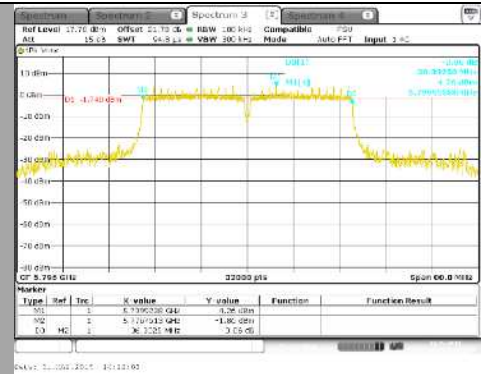
C21



C22



C23



Channel

6dB Emission Bandwidth (MHz)

C21

36,34

C22

36,32

C23

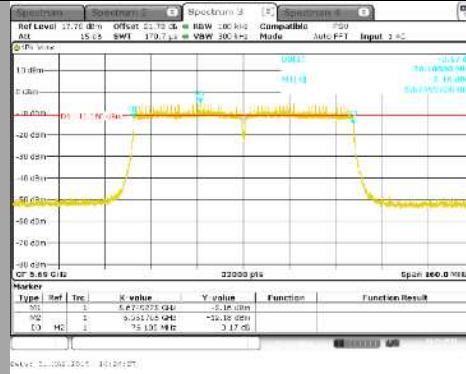
36,33



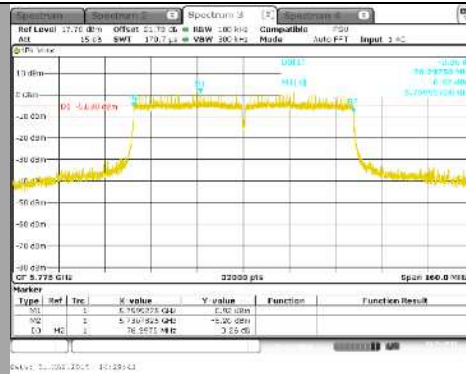
L C I E

802.11ac VHT80

C28



C29



Channel	6dB Emission Bandwidth (MHz)
C28	76,11
C29	76,3

6.6. CONCLUSION

6dB Emission Bandwidth measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD AiT US V2**, SN: **253764997**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407** limits.

7. DUTY CYCLE

7.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : May 31, 2018
Ambient temperature : 26 °C
Relative humidity : 42 %

7.2. TEST SETUP

- The Equipment Under Test is installed:

- On a table
- In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

- Conducted Method
- Radiated Method

- Test Procedure:

- KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § B2 b)



Photograph for Duty Cycle



LCIE

7.3. LIMIT

None

7.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2017/09	2018/09
Multi-meter	KEITHLEY	2000	A1242090	2017/05	2019/05
Programmable AC/DC power supply	KIKUSUI	PCR500M	A7040079	2017/05	2019/05
RF cable & 20 dB attenuator	Télédyne	920-0202-048	A5329676	2017/09	2018/09

7.5. RESULTS

802.11a C13		802.11n HT20/ac VHT20 C13	
			
802.11n HT40/ac VHT40 C23		802.11ac VHT80 C29	
			
Mode	Duty Cycle (%)	Duty Cycle Correction (dB)	
802.11a	99.15	0.074	
802.11n HT20/ac VHT20	96.79	0.2833	
802.11n HT40/ac VHT40	93.92	0.5448	
802.11ac VHT80	90.95	0.8239	

7.6. CONCLUSION

Duty Cycle measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD AIt US V2**, SN: **253764997**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.407** limits.

8. MAXIMUM CONDUCTED OUTPUT POWER, MAXIMUM POWER SPECTRAL DENSITY, MAXIMUM EIRP, MAXIMUM EIRP SPECTRAL DENSITY

8.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : June 4, 2018 to June 13, 2018
Ambient temperature : 24 °C
Relative humidity : 41 %

8.2. TEST SETUP

- The Equipment Under Test is installed:

- On a table
- In an anechoic chamber

- Measurement is performed with a spectrum analyzer in:

- Conducted Method
- Radiated Method

- Test Procedure:

- KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § E2 b) (Method SA-1) & F
- KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § E2 c) (Method SA-2) & F
- KDB 662911 D01 Multiple Transmitter Output v02r01



Photograph for Maximum Conducted Output Power



8.3. LIMIT

FCC Part 15.407

Maximum Conducted Output power:

5150MHz-5250MHz: Shall not exceed 30dBm for Indoor Access Point devices & 24dBm for Client devices

5250MHz-5350MHz: Shall not exceed 24dBm or 11dBm +10*log (-26dB Bandwidth (MHz))

5470MHz-5725MHz: Shall not exceed 24dBm or 11dBm +10*log (-26dB Bandwidth (MHz))

5725MHz-5850MHz: Shall not exceed 30dBm

Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

Maximum Power Spectral Density:

5150MHz-5250MHz: Shall not exceed 17dBm/MHz for Indoor Access Point & 11dBm/MHz for Client devices

5250MHz-5350MHz: Shall not exceed 11dBm/MHz

5470MHz-5725MHz: Shall not exceed 11dBm/MHz

5725MHz-5850MHz: Shall not exceed 30dBm/500kHz

Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

RSS-247

Maximum Conducted Output power:

5250MHz-5350MHz: Shall not exceed 24dBm or 11dBm +10*log (-26dB Bandwidth (MHz))

5470MHz-5725MHz: Shall not exceed 24dBm or 11dBm +10*log (-26dB Bandwidth (MHz))

5725MHz-5850MHz: Shall not exceed 30dBm

Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

Maximum Power Spectral Density:

5250MHz-5350MHz: Shall not exceed 11dBm/MHz

5470MHz-5725MHz: Shall not exceed 11dBm/MHz

5725MHz-5850MHz: Shall not exceed 30dBm/500kHz

Limits are reduced by G-6dBi if Overall Antenna Gain above 6dBi

Maximum EIRP:

5150MHz-5250MHz: Shall not exceed 23dBm or 10dBm +10*log (-26dB Bandwidth (MHz))

5250MHz-5350MHz: Shall not exceed 30dBm or 17dBm +10*log (-26dB Bandwidth (MHz)) (Above 23dBm Antenna pattern)

5470MHz-5725MHz : Shall not exceed 30dBm or 17dBm +10*log (-26dB Bandwidth (MHz))

Maximum EIRP Power Spectral Density:

5150MHz-5250MHz: Shall not exceed 10dBm/MHz



L C I E

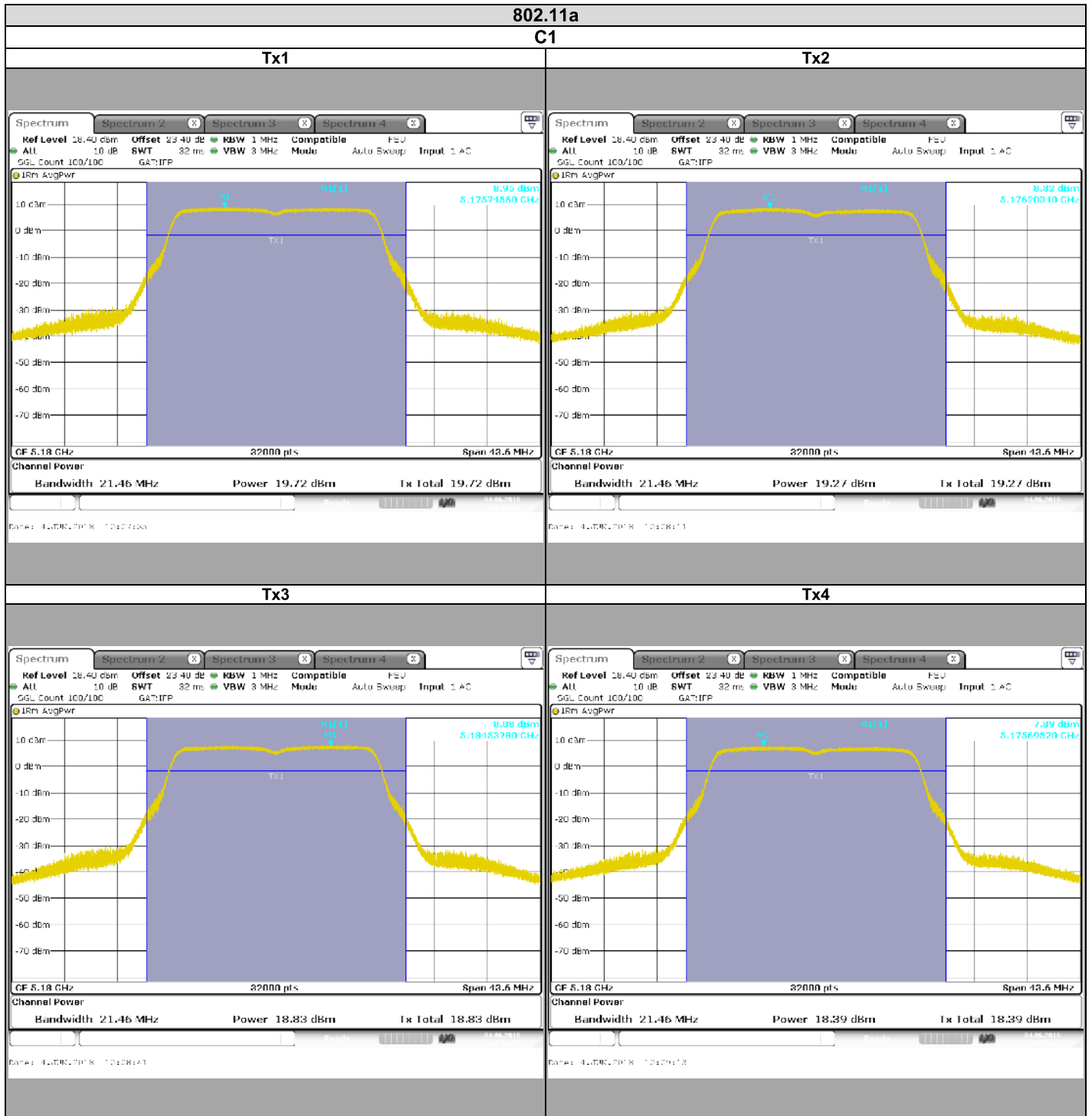
8.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Cal_Date	Cal_Due
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2017/09	2018/09
Multi-meter	KEITHLEY	2000	A1242090	2017/05	2019/05
Programmable AC/DC power supply	KIKUSUI	PCR500M	A7040079	2017/05	2019/05
RF cable & 20 dB attenuator	Télédyne	920-0202-048	A5329676	2017/09	2018/09



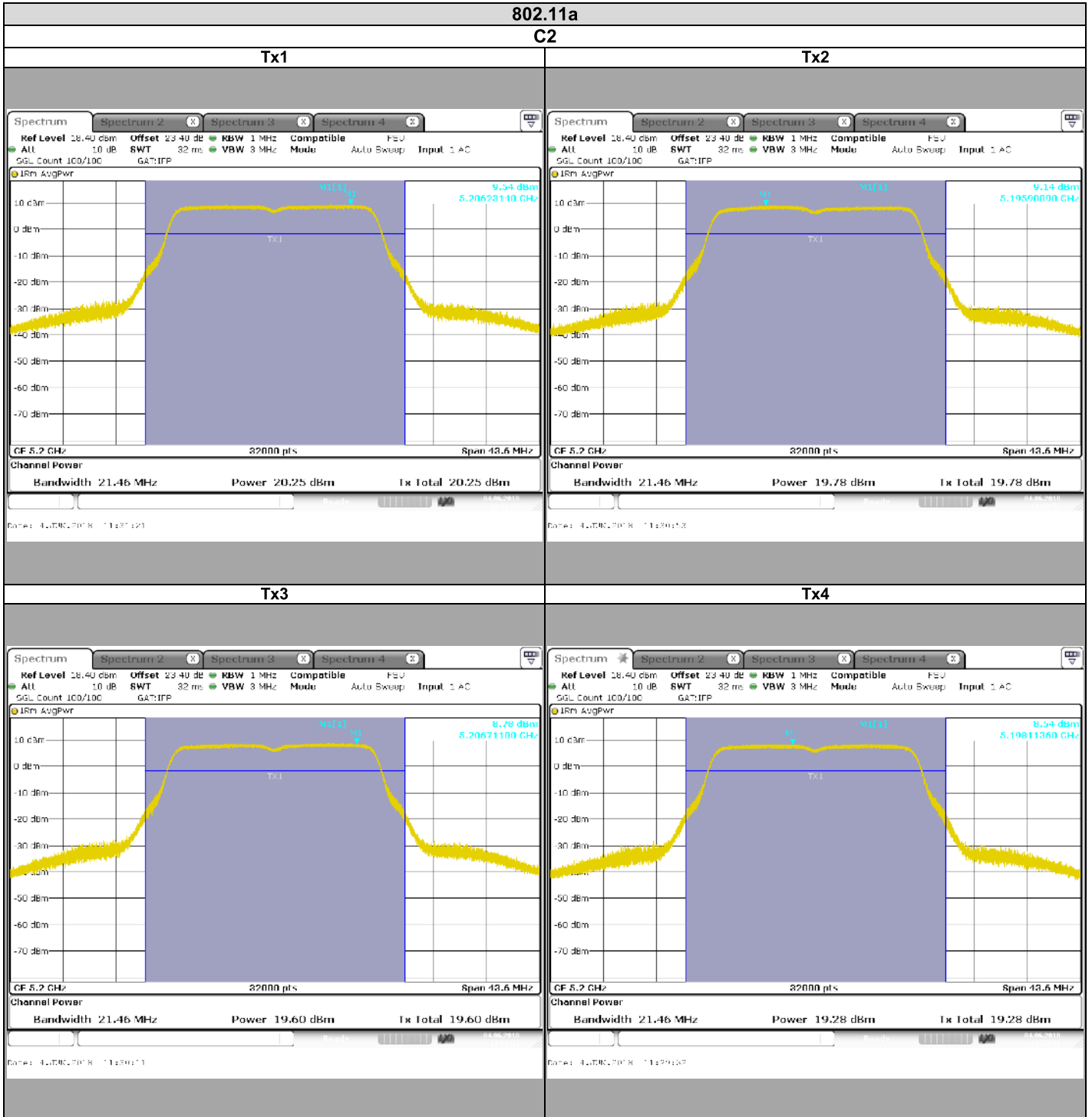
LCIE

8.5. RESULTS





L C I E





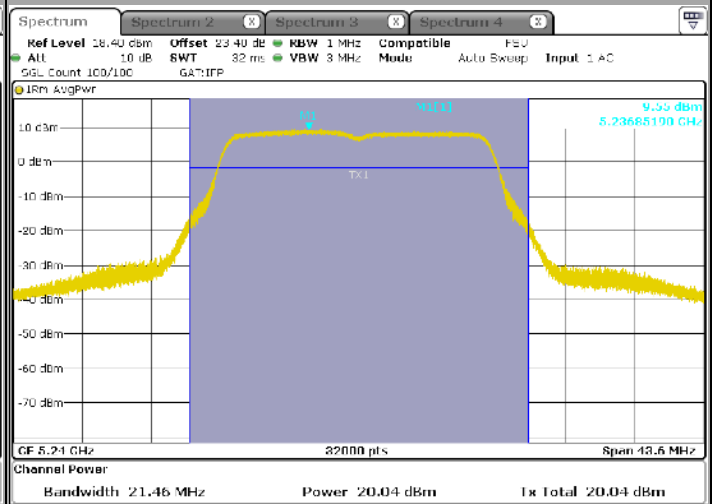
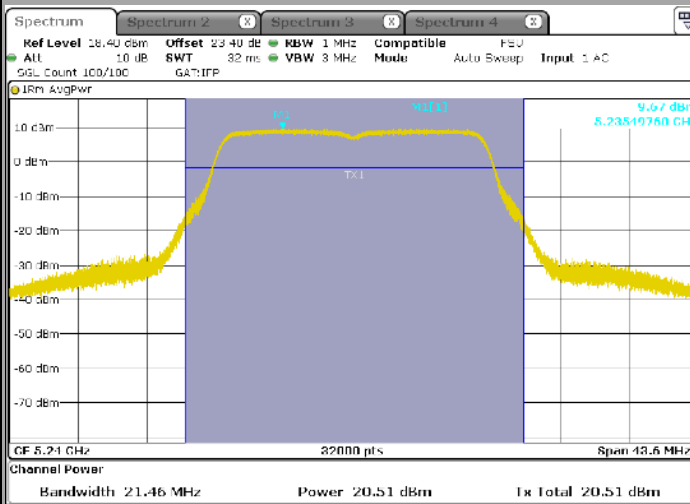
L C I E

802.11a

C3

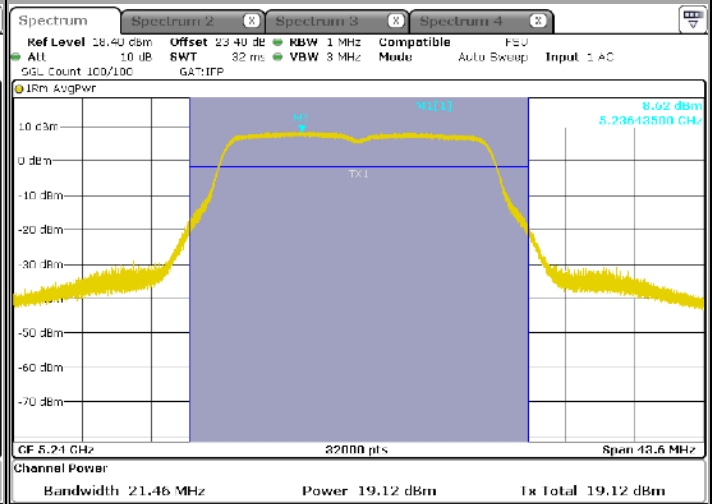
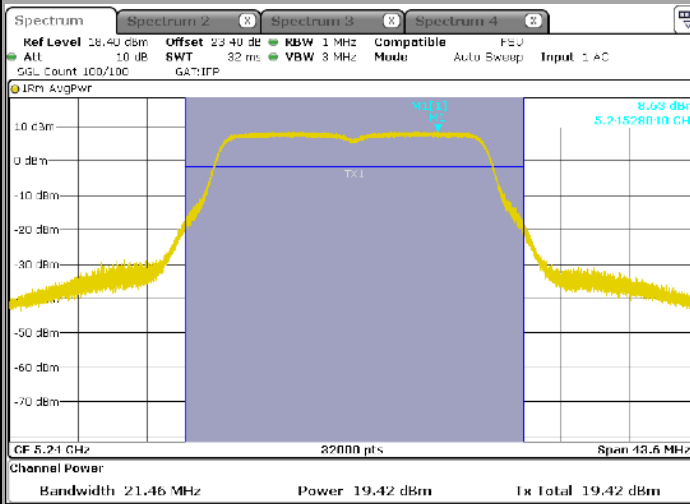
Tx1

Tx2



Tx3

Tx4





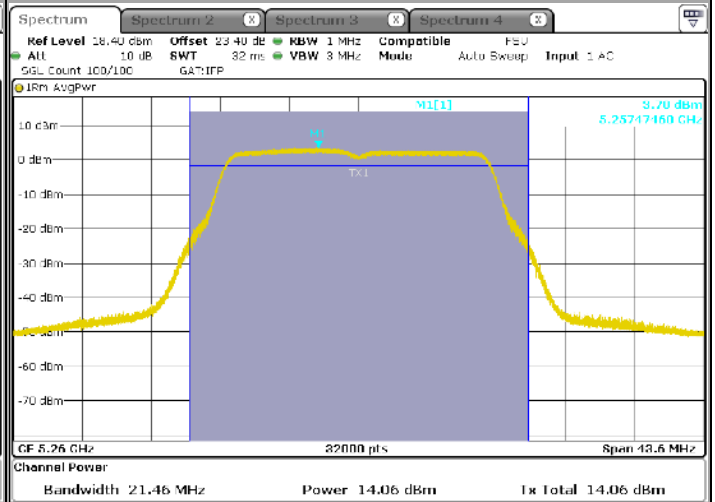
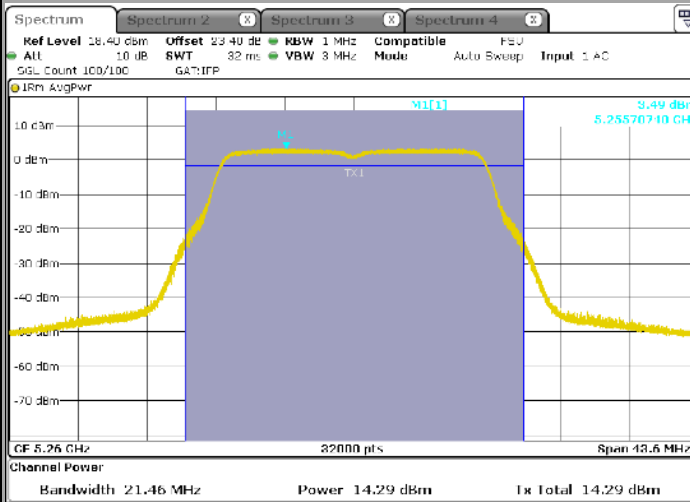
L C I E

802.11a

C4

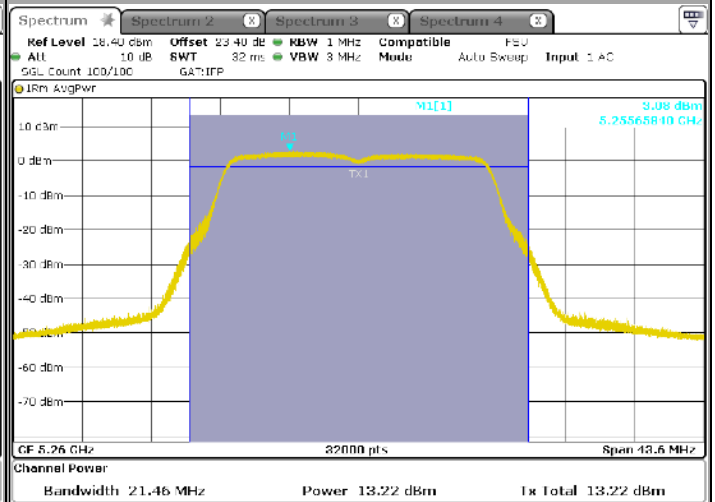
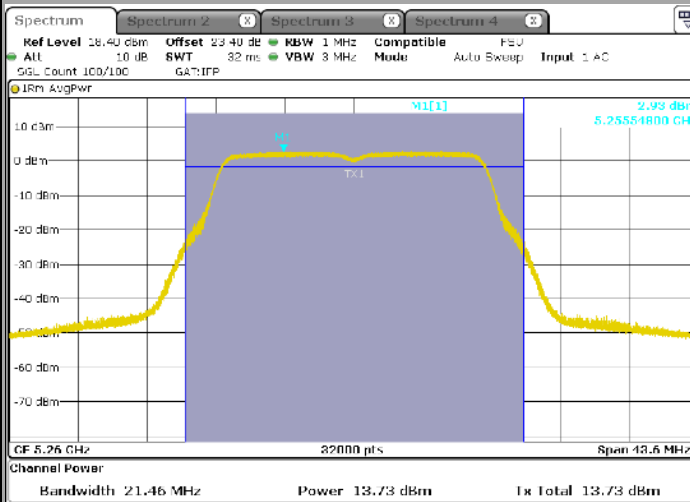
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Tx2



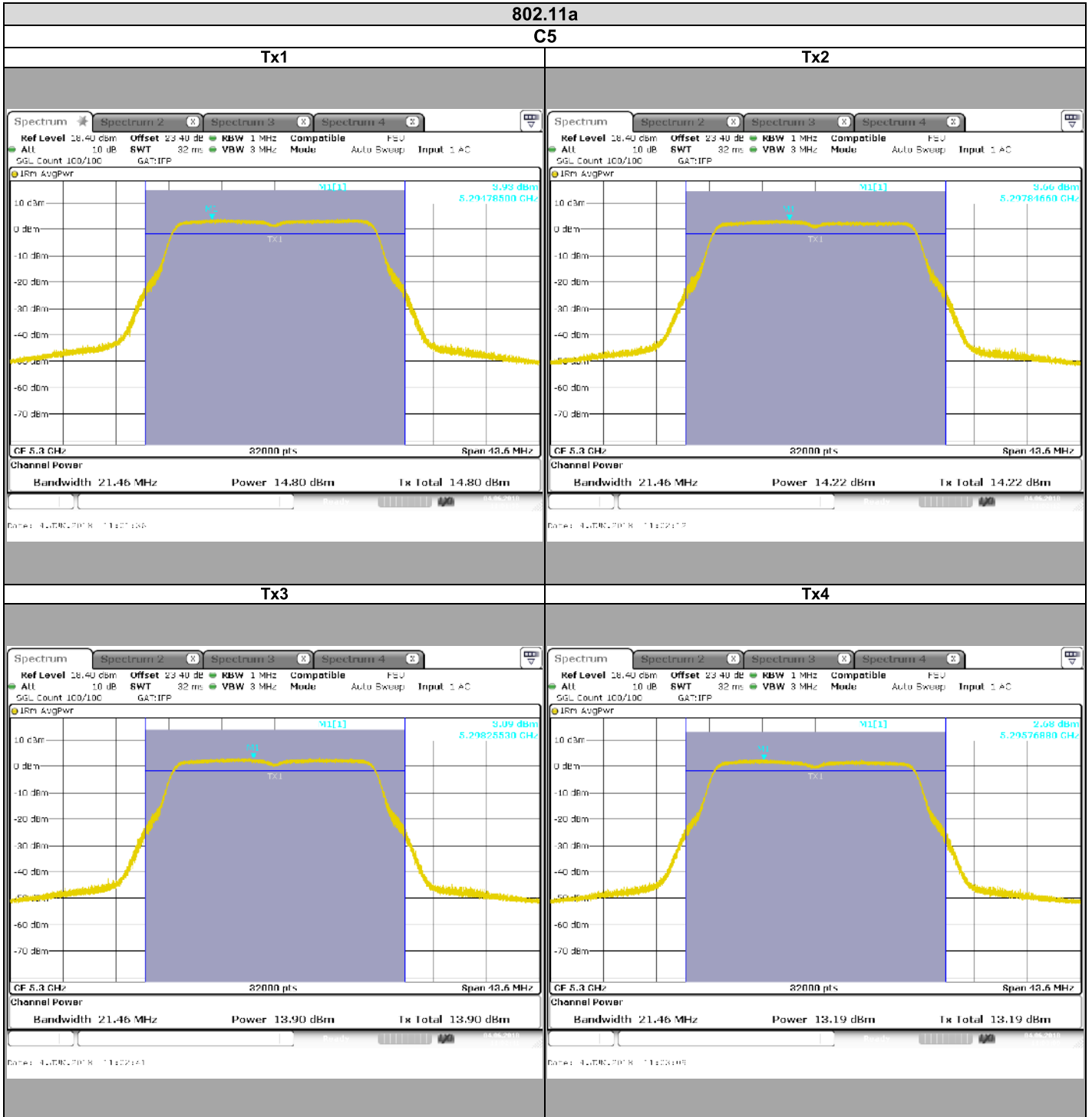
Tx3

Tx4



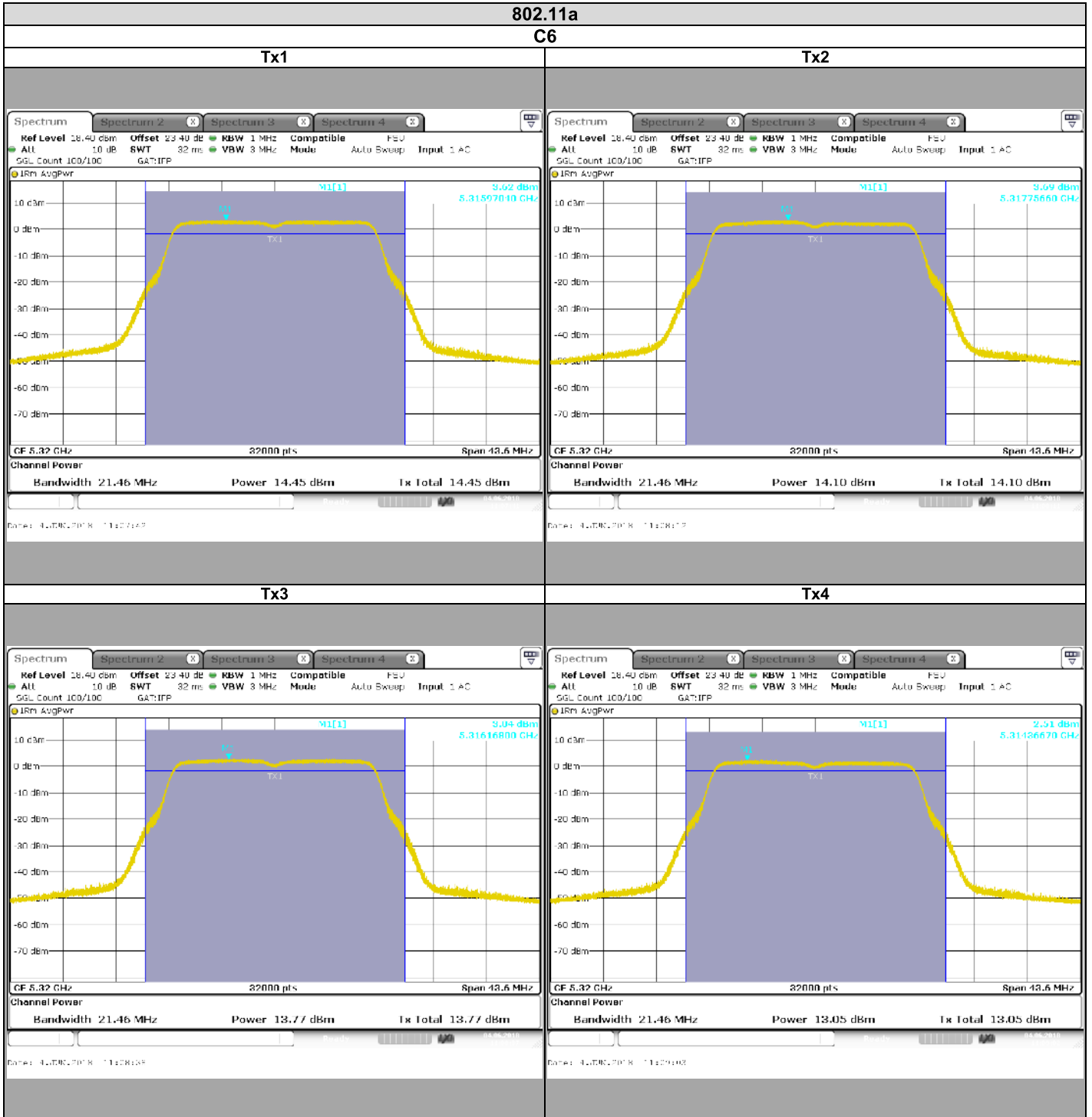


L C I E



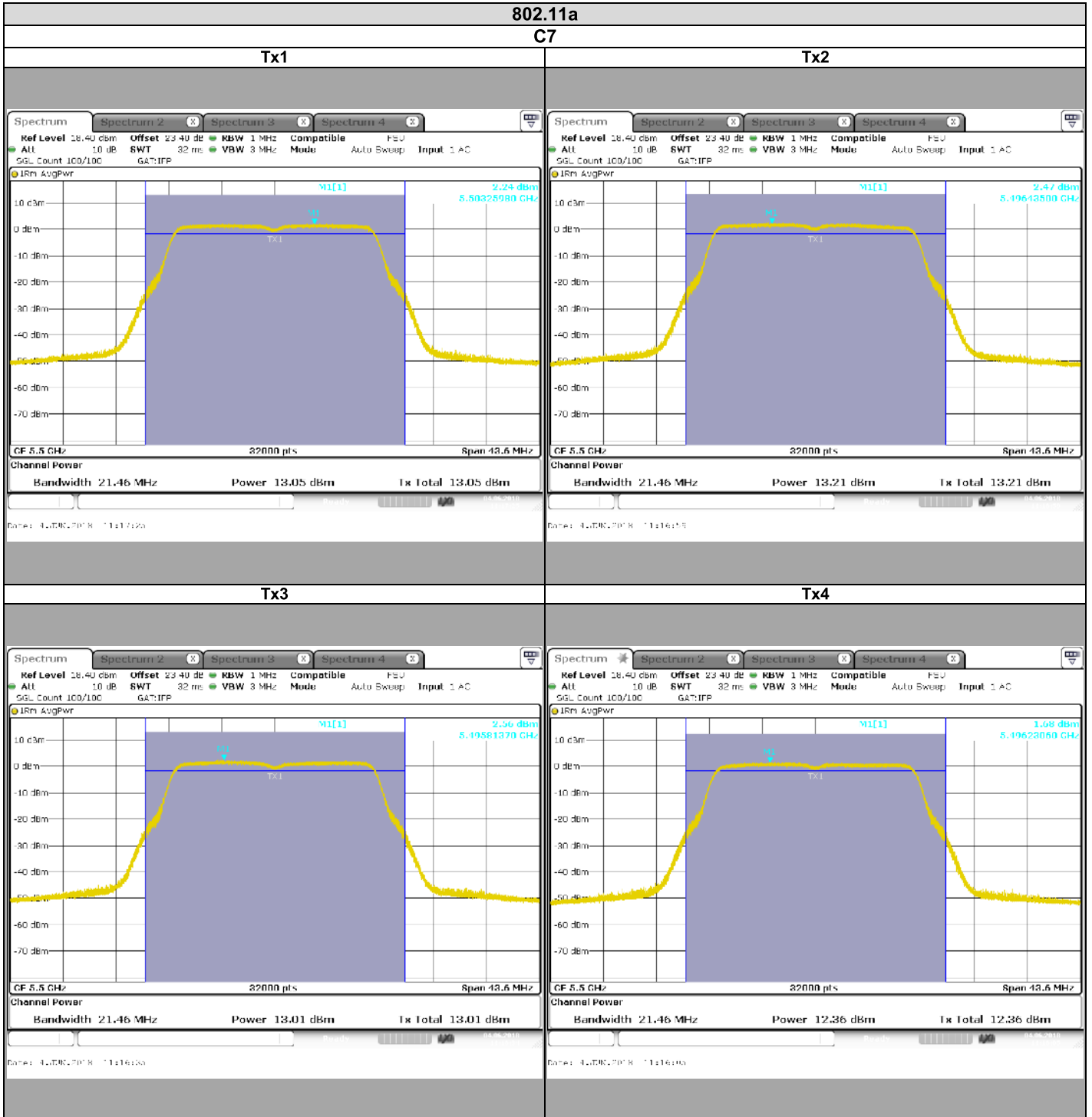


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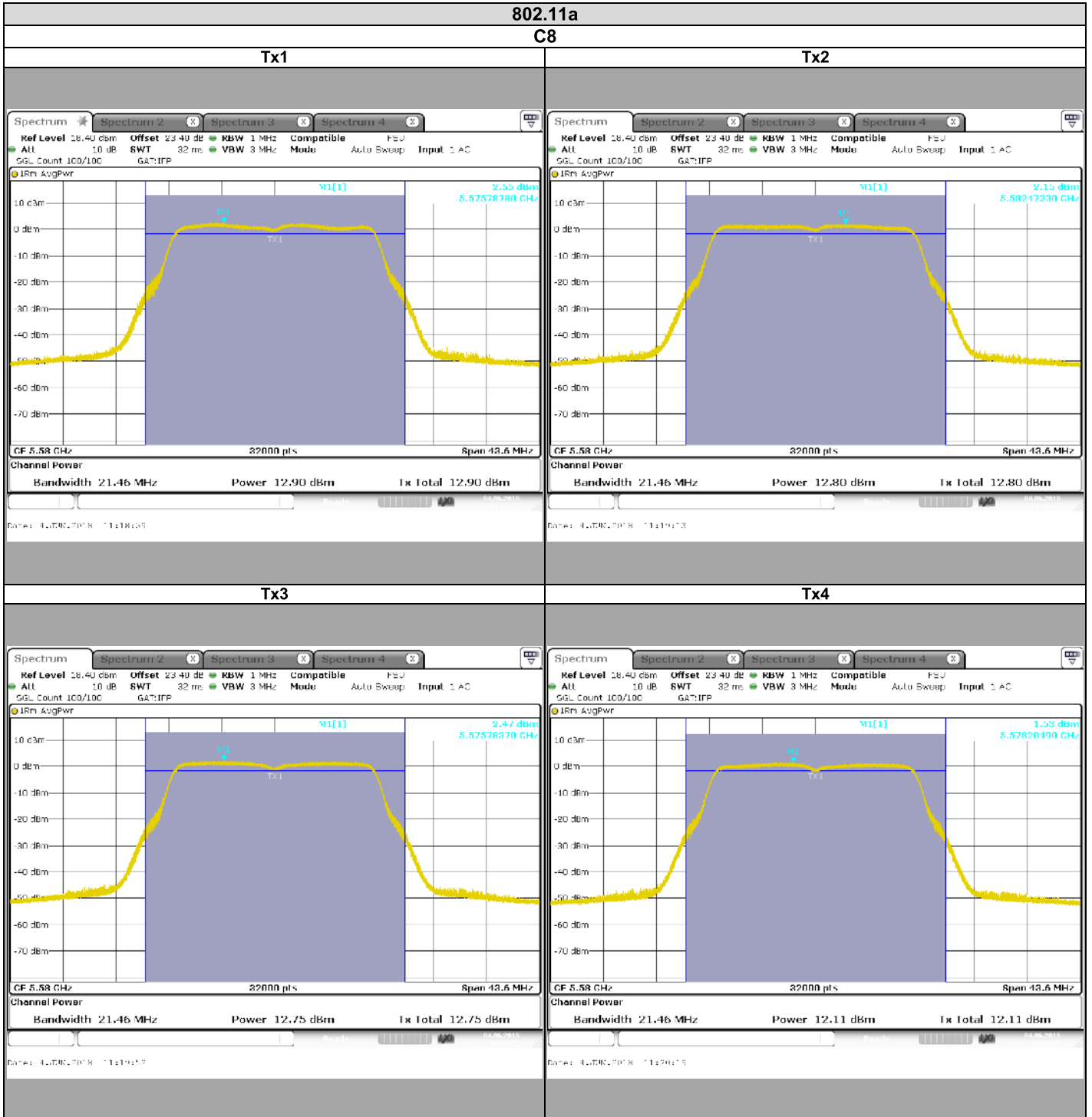


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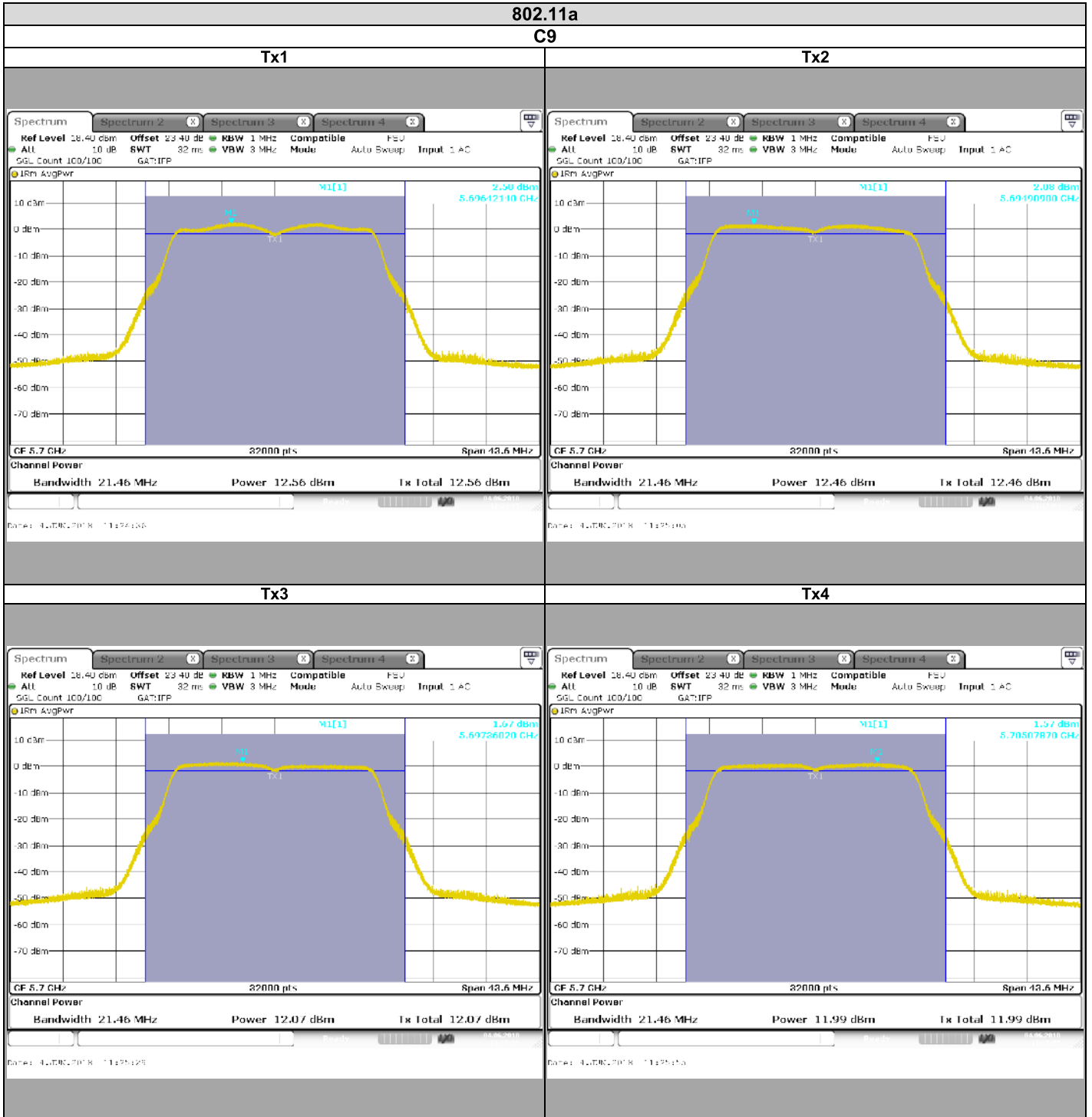


L C I E



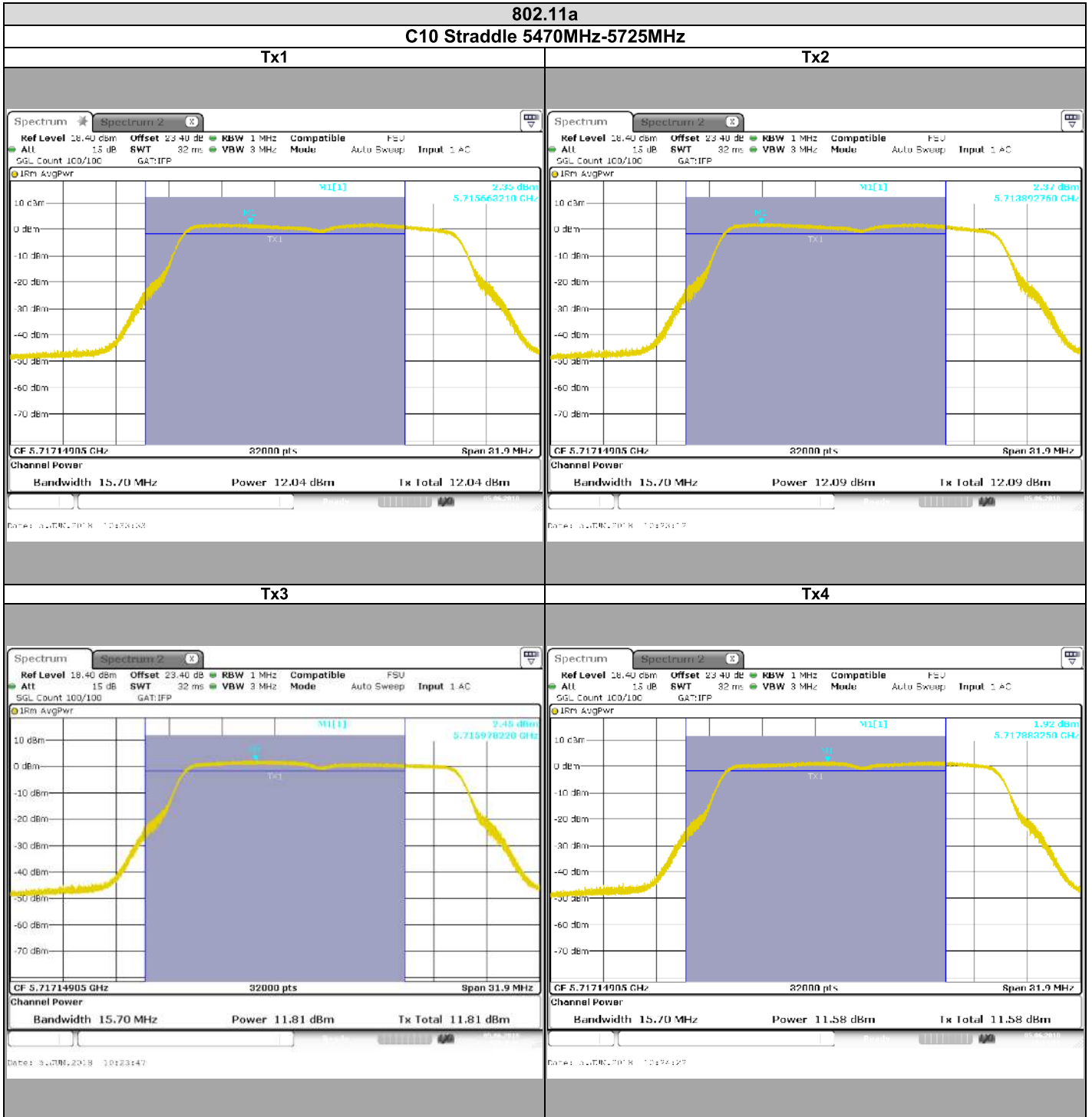


L C I E



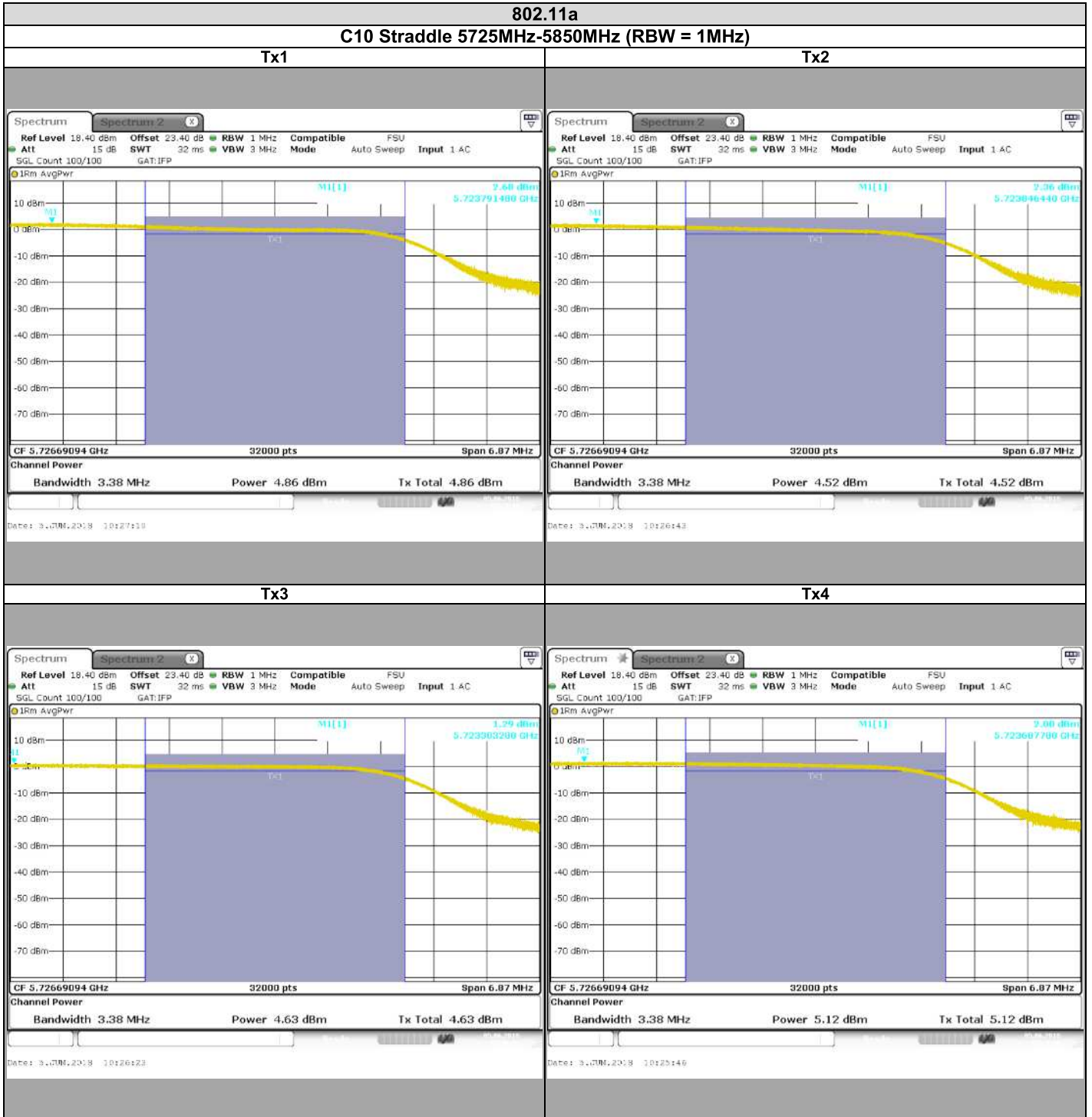


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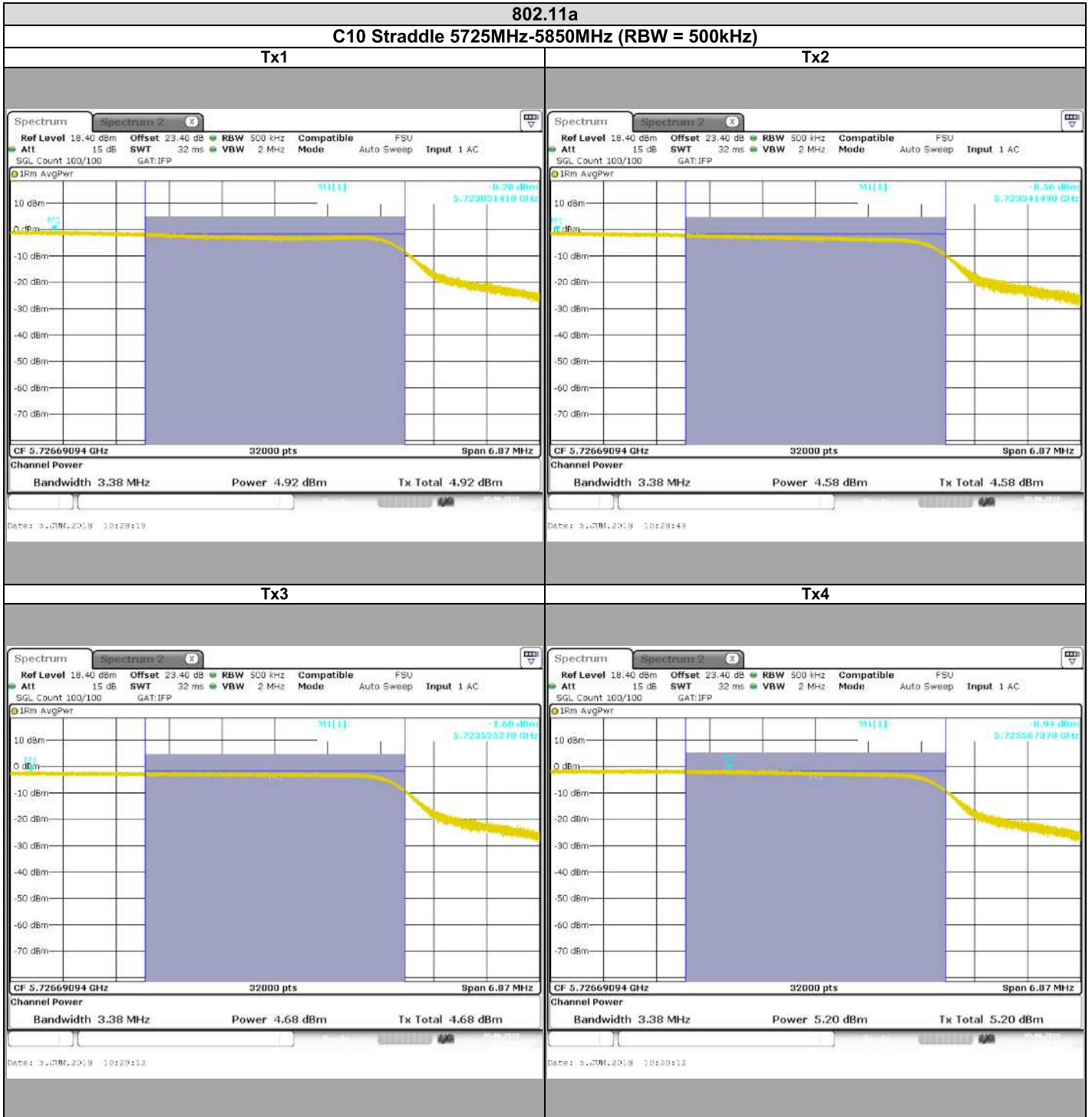


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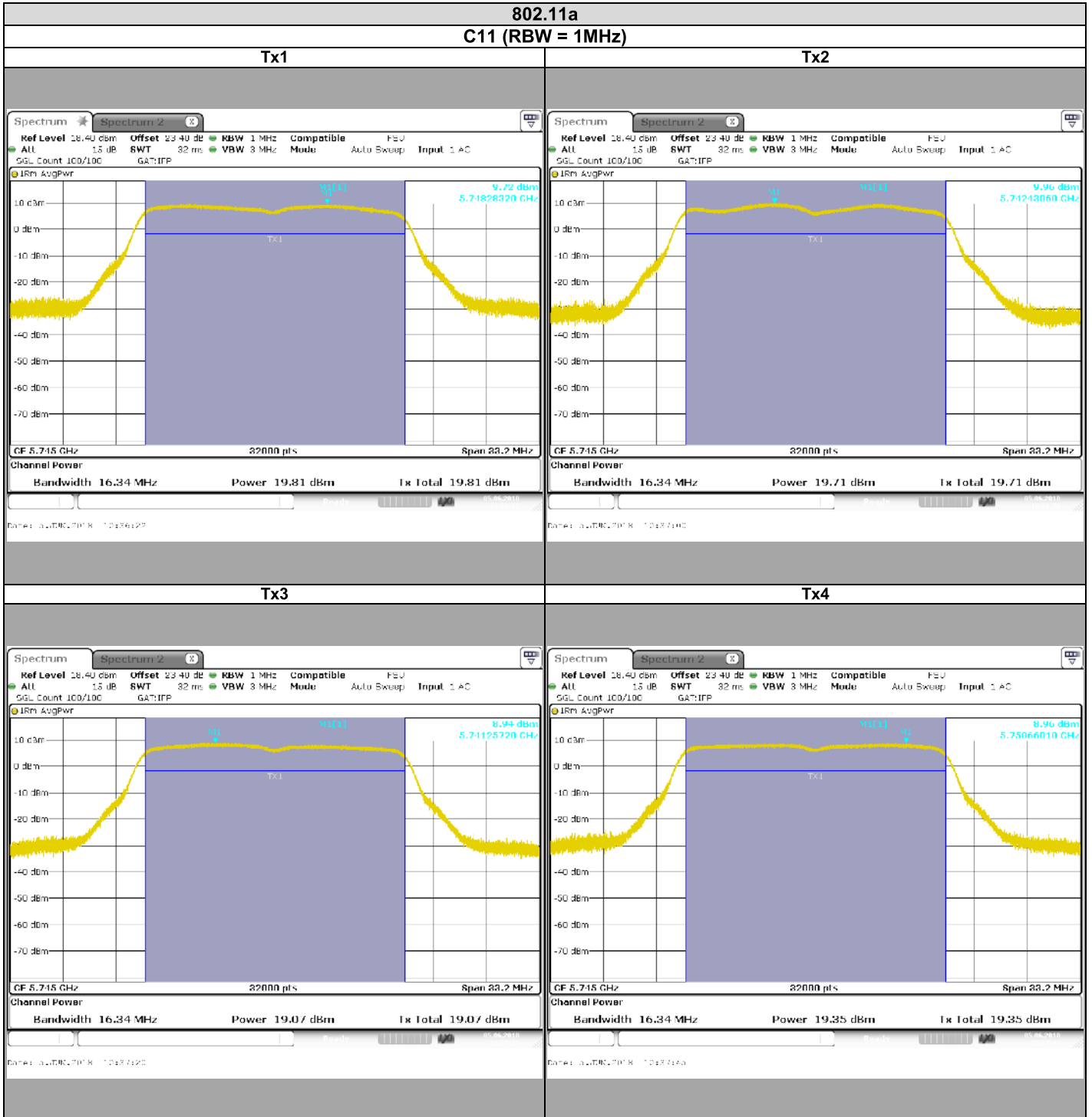


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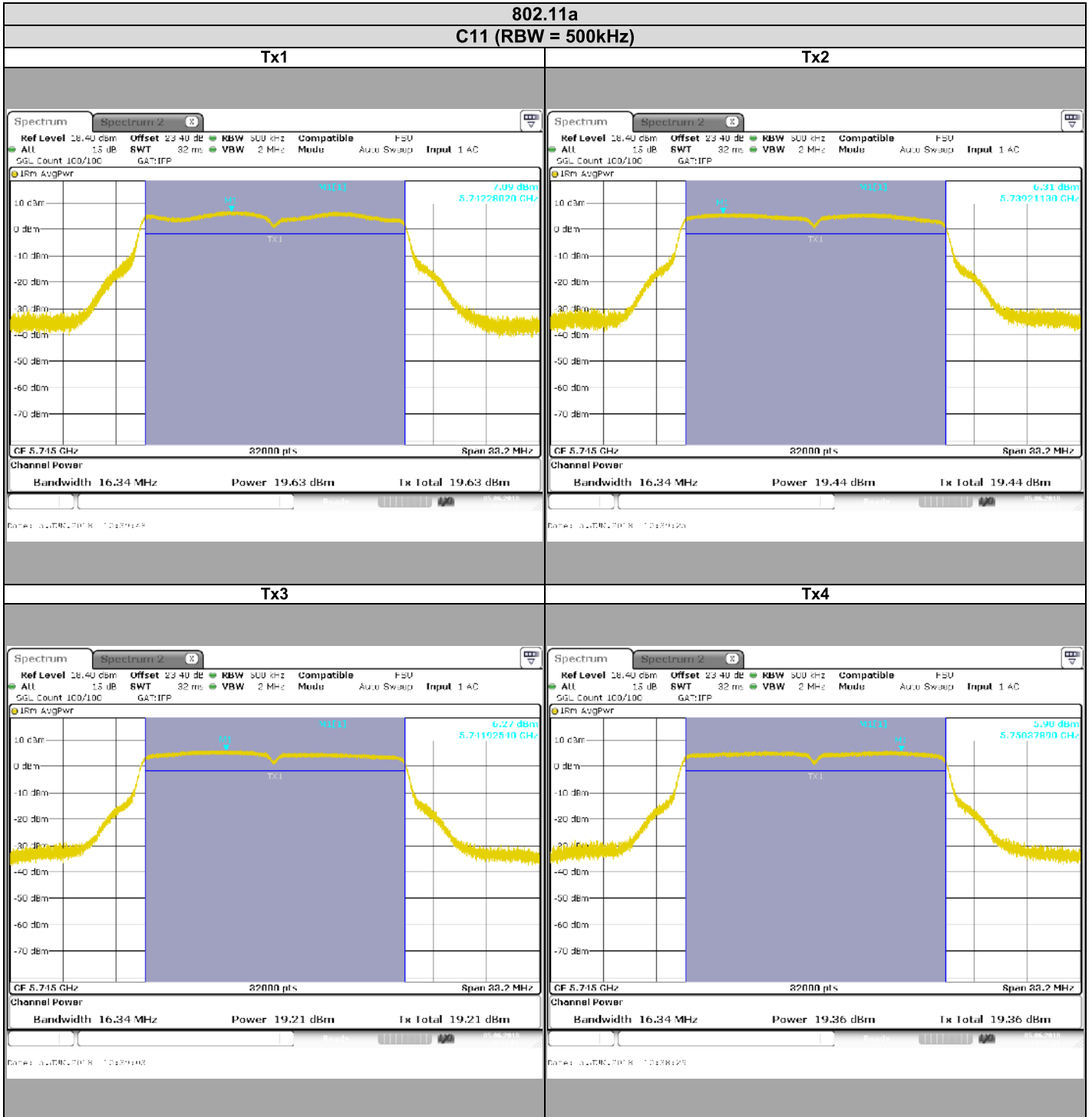


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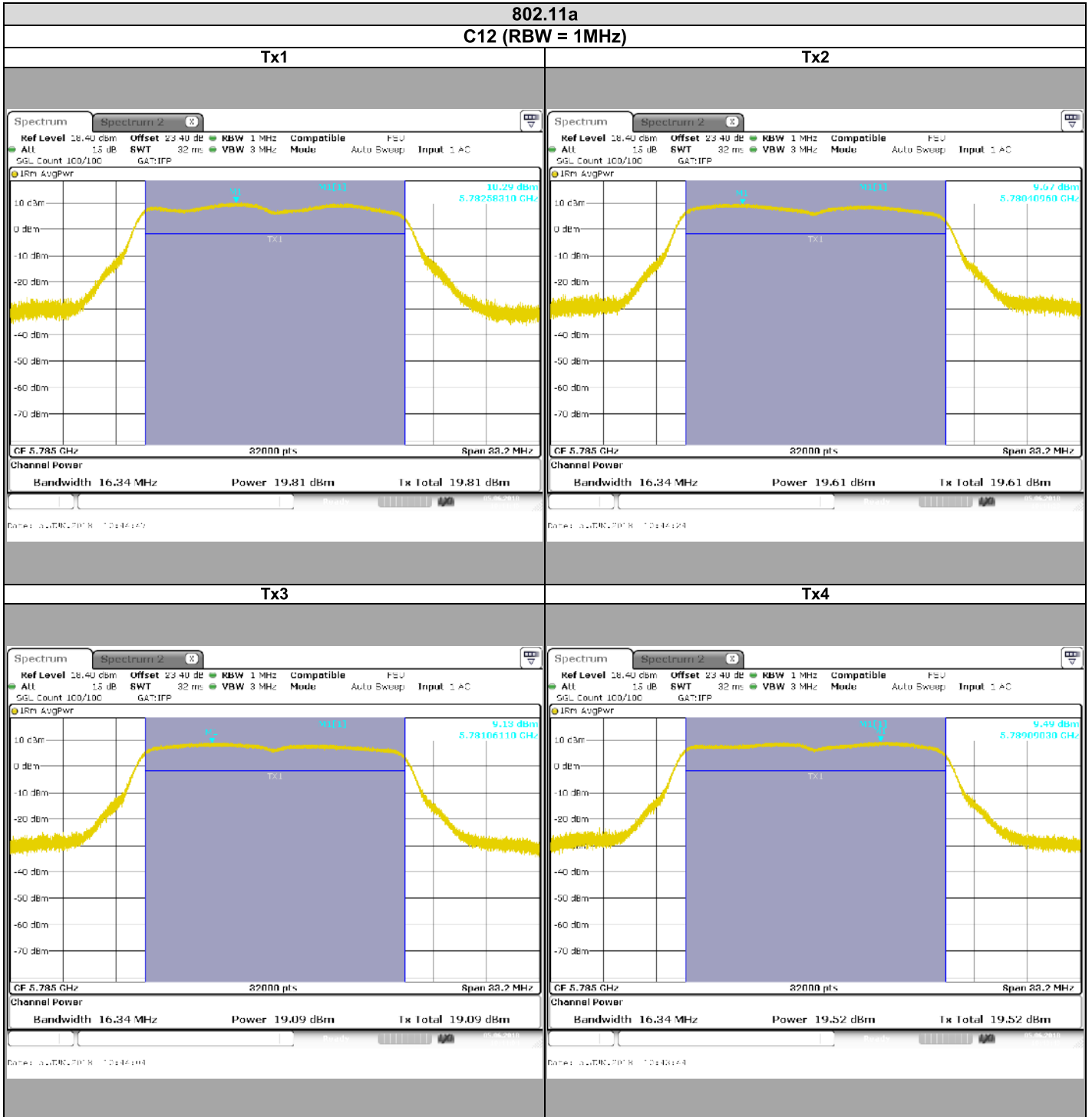


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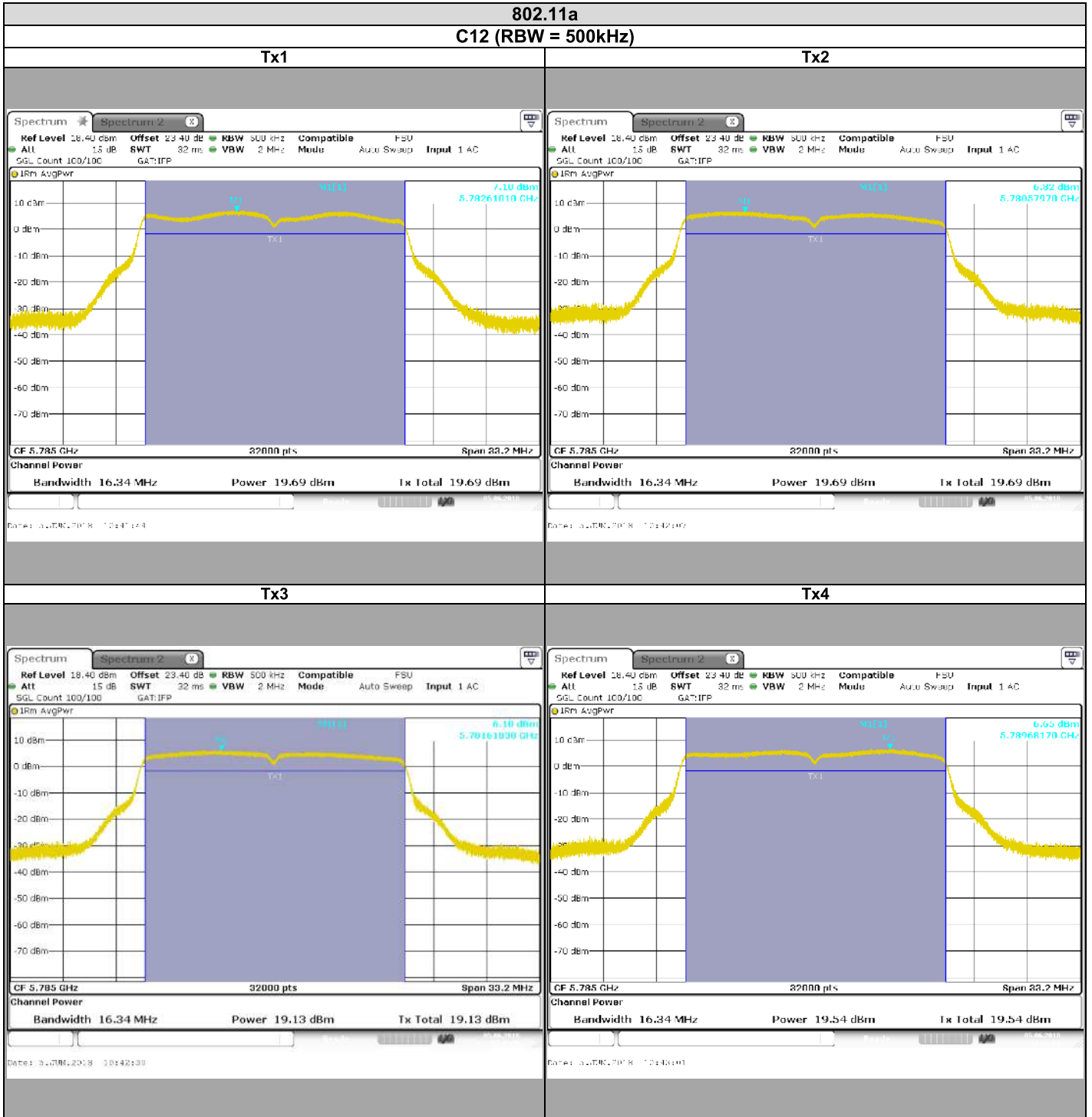


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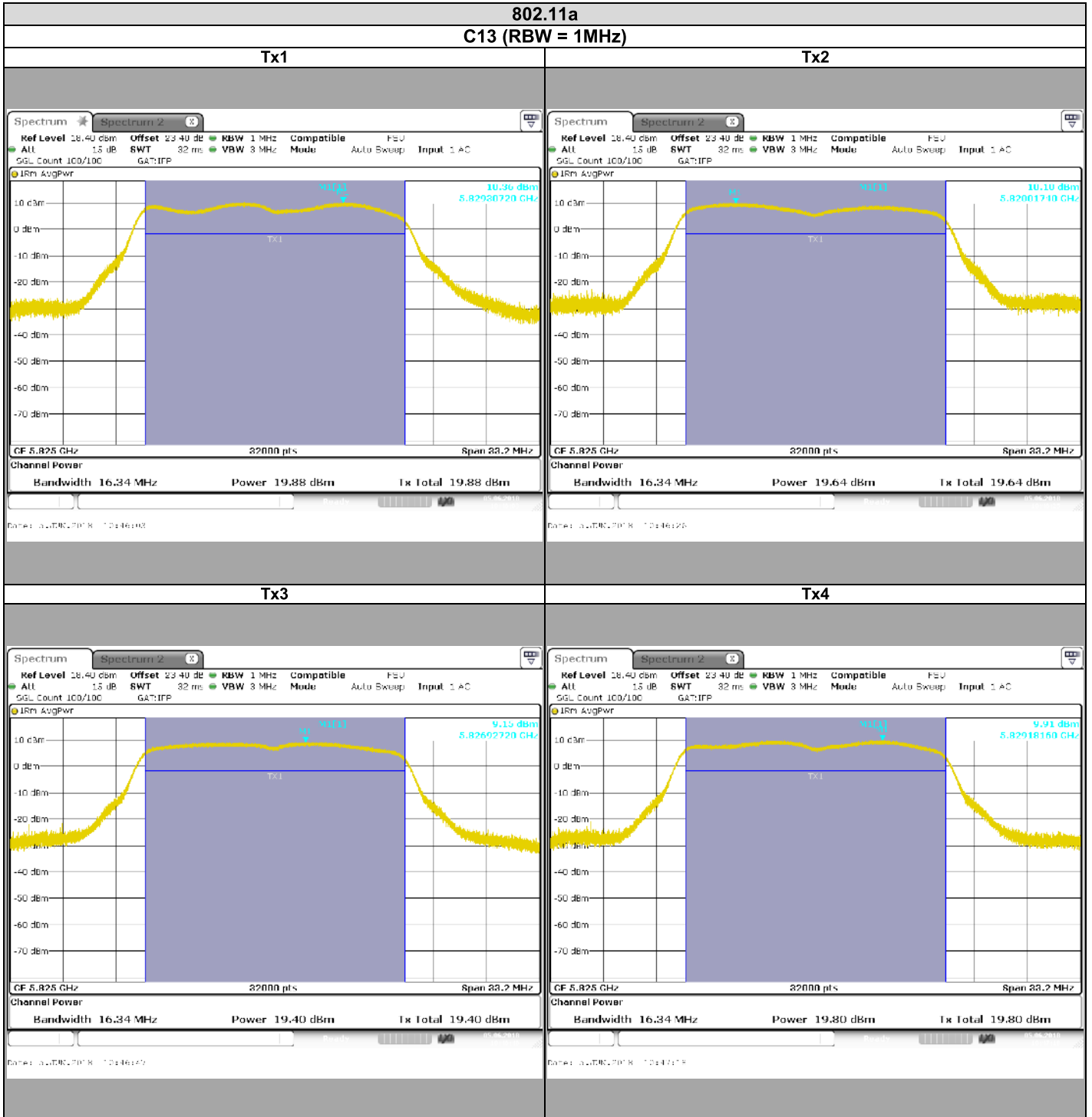


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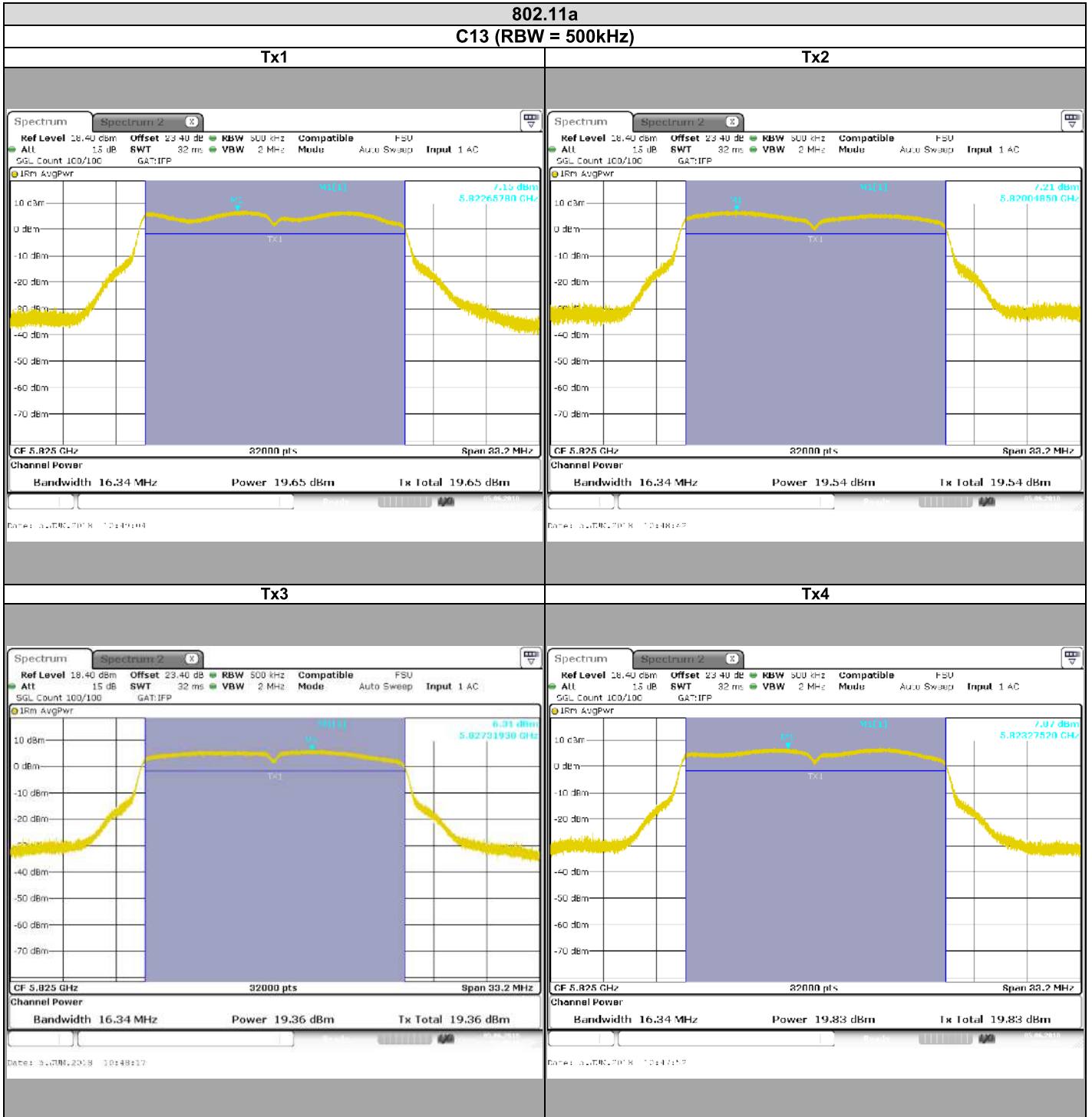


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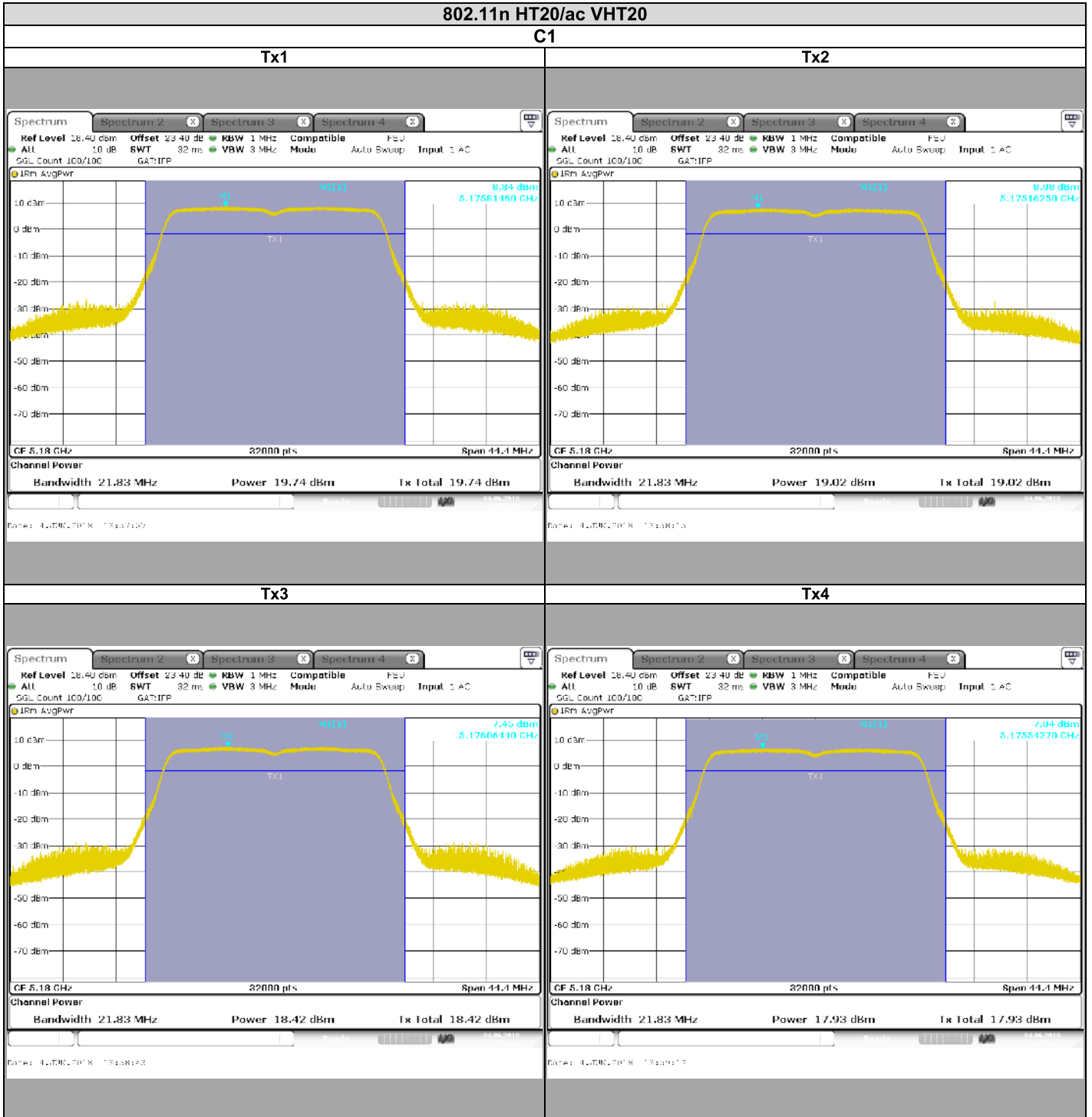


L C I E





L C I E



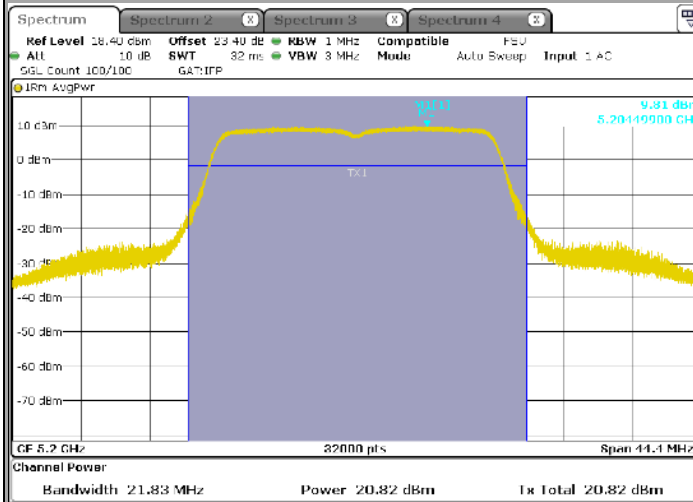


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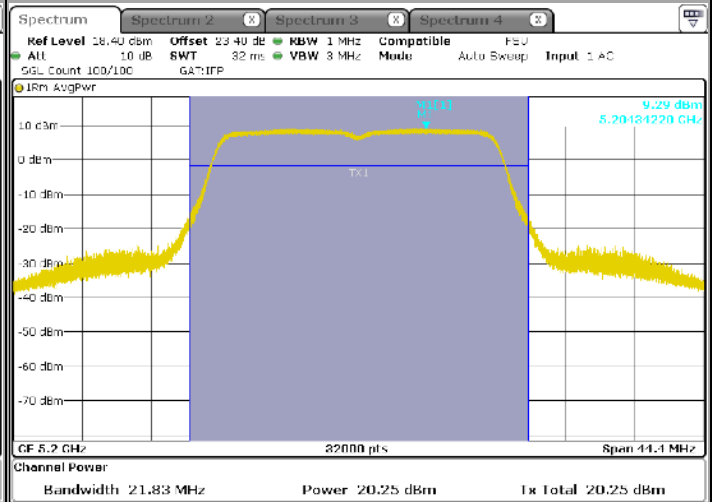
802.11n HT20/ac VHT20

C2

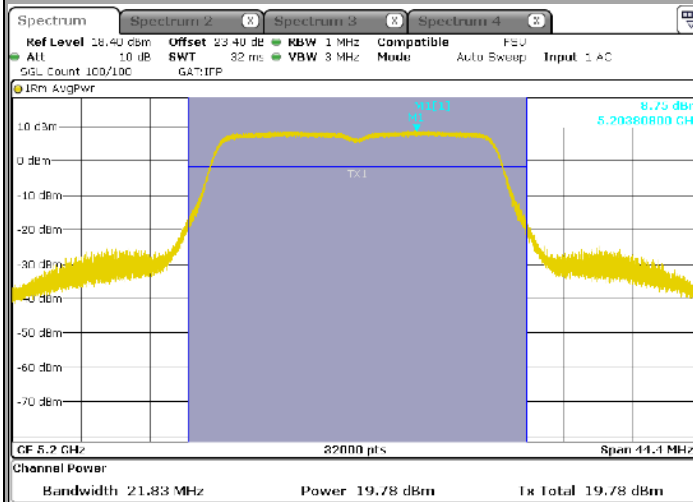
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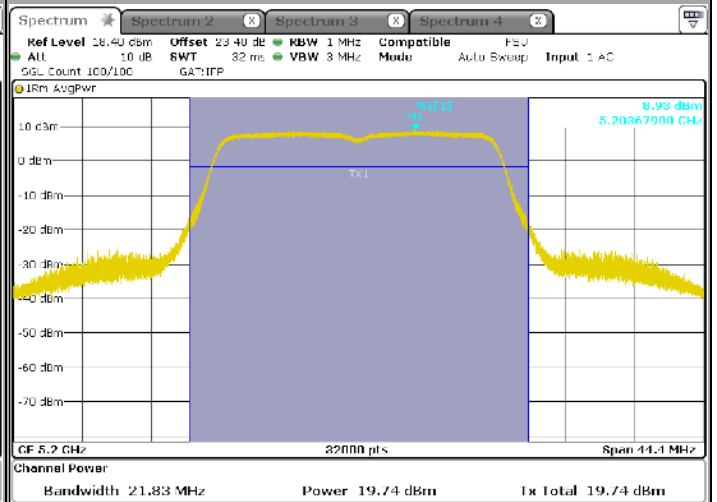
Tx2



Tx3



Tx4





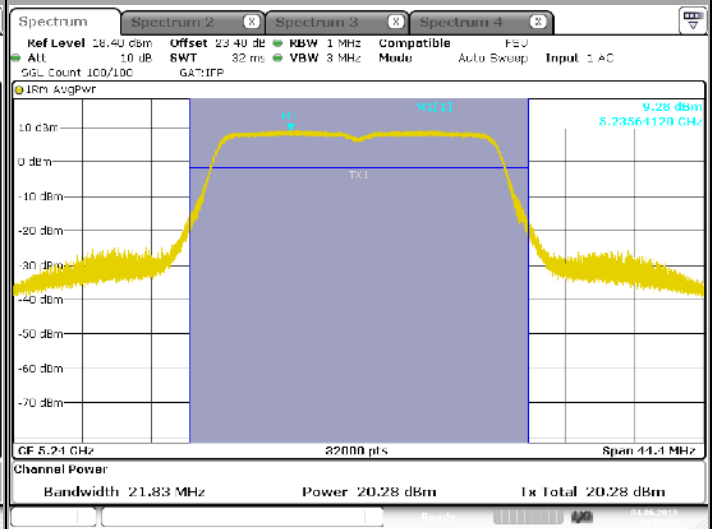
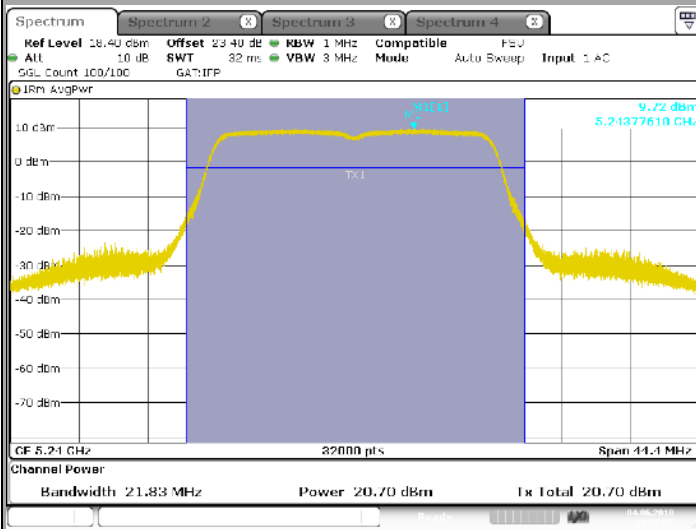
L C I E

802.11n HT20/ac VHT20

C3

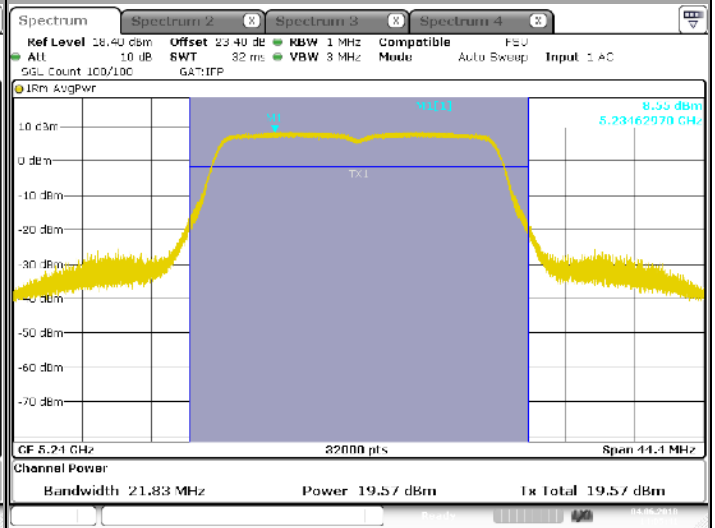
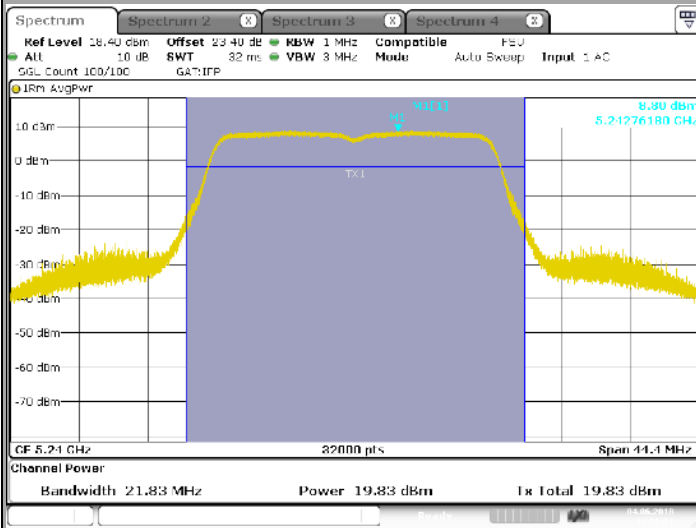
Tx1

Tx2



Tx3

Tx4





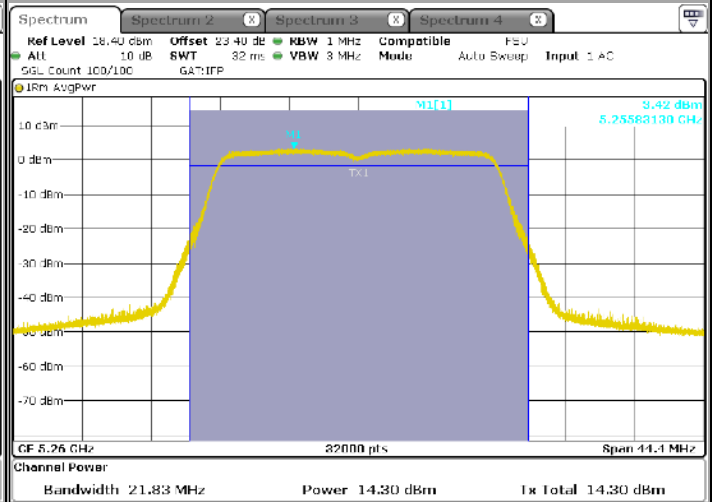
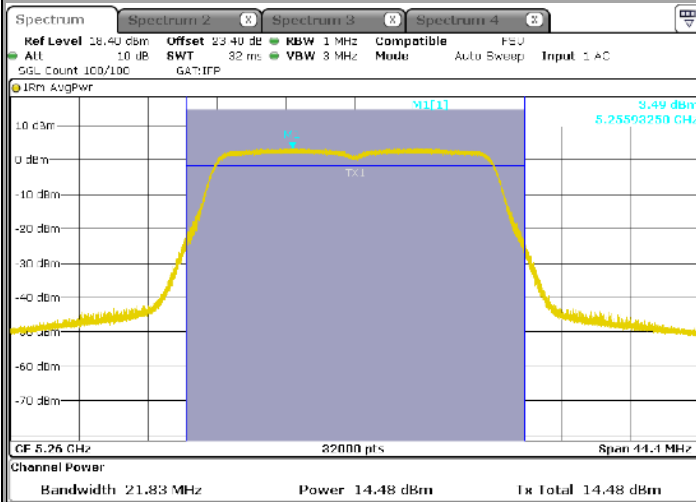
L C I E

802.11n HT20/ac VHT20

C4

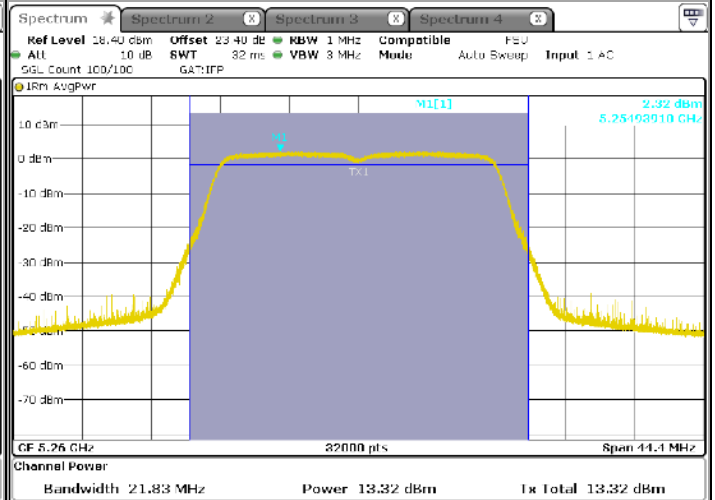
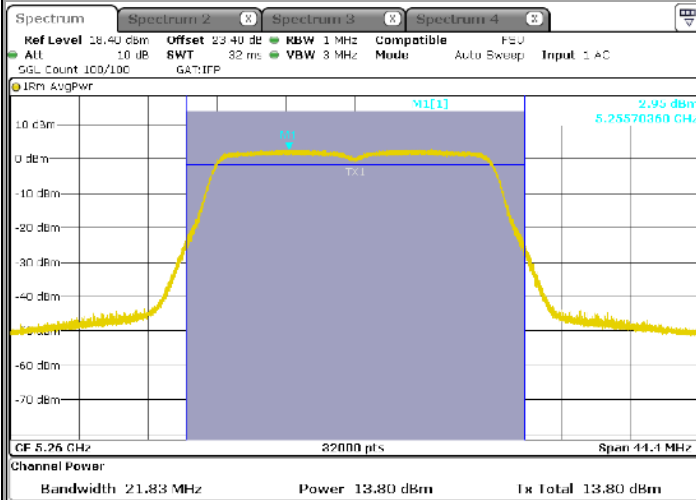
Tx1

Tx2



Tx3

Tx4





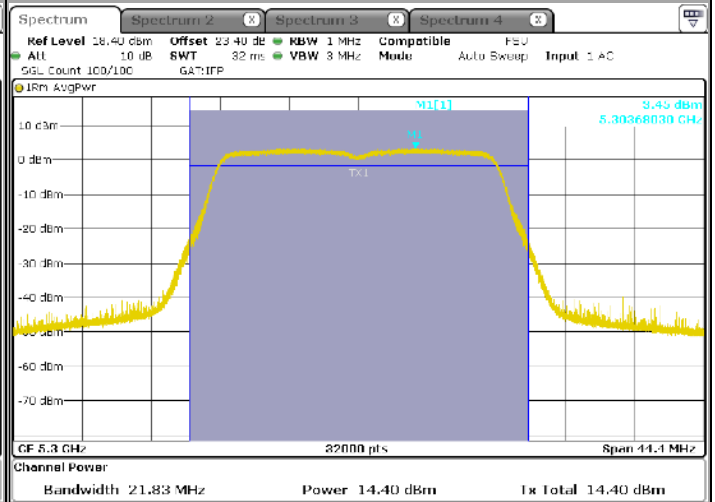
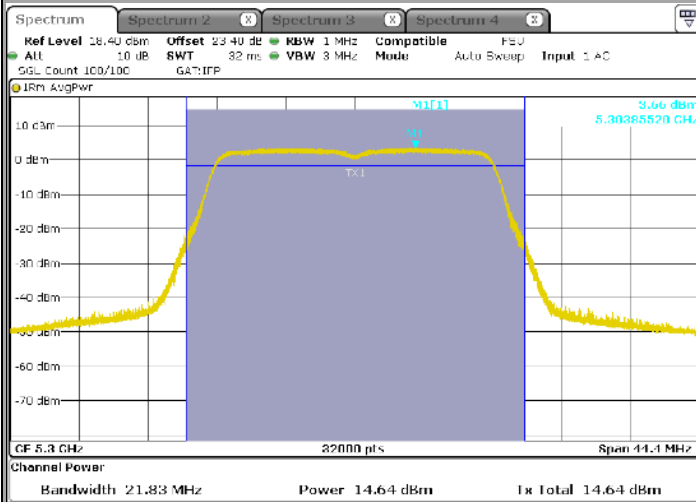
L C I E

802.11n HT20/ac VHT20

C5

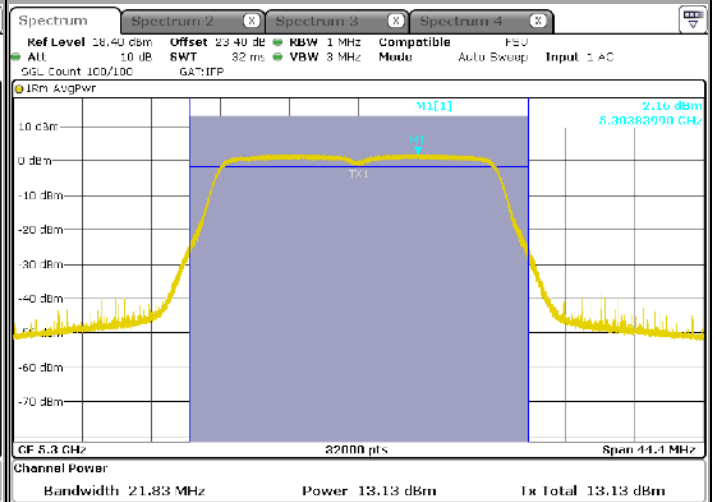
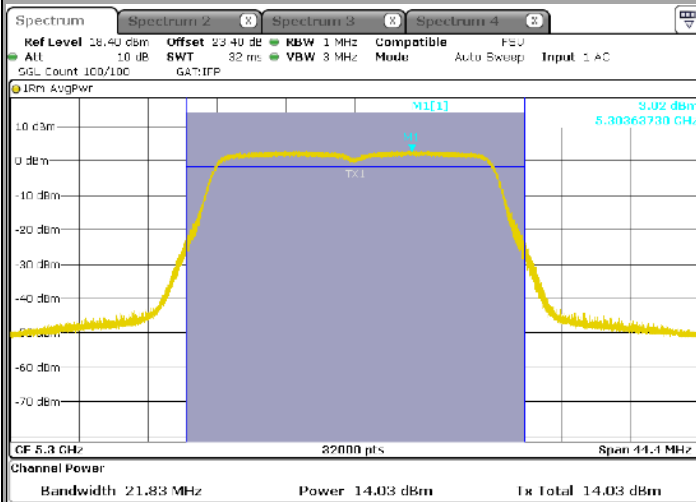
Tx1

Tx2



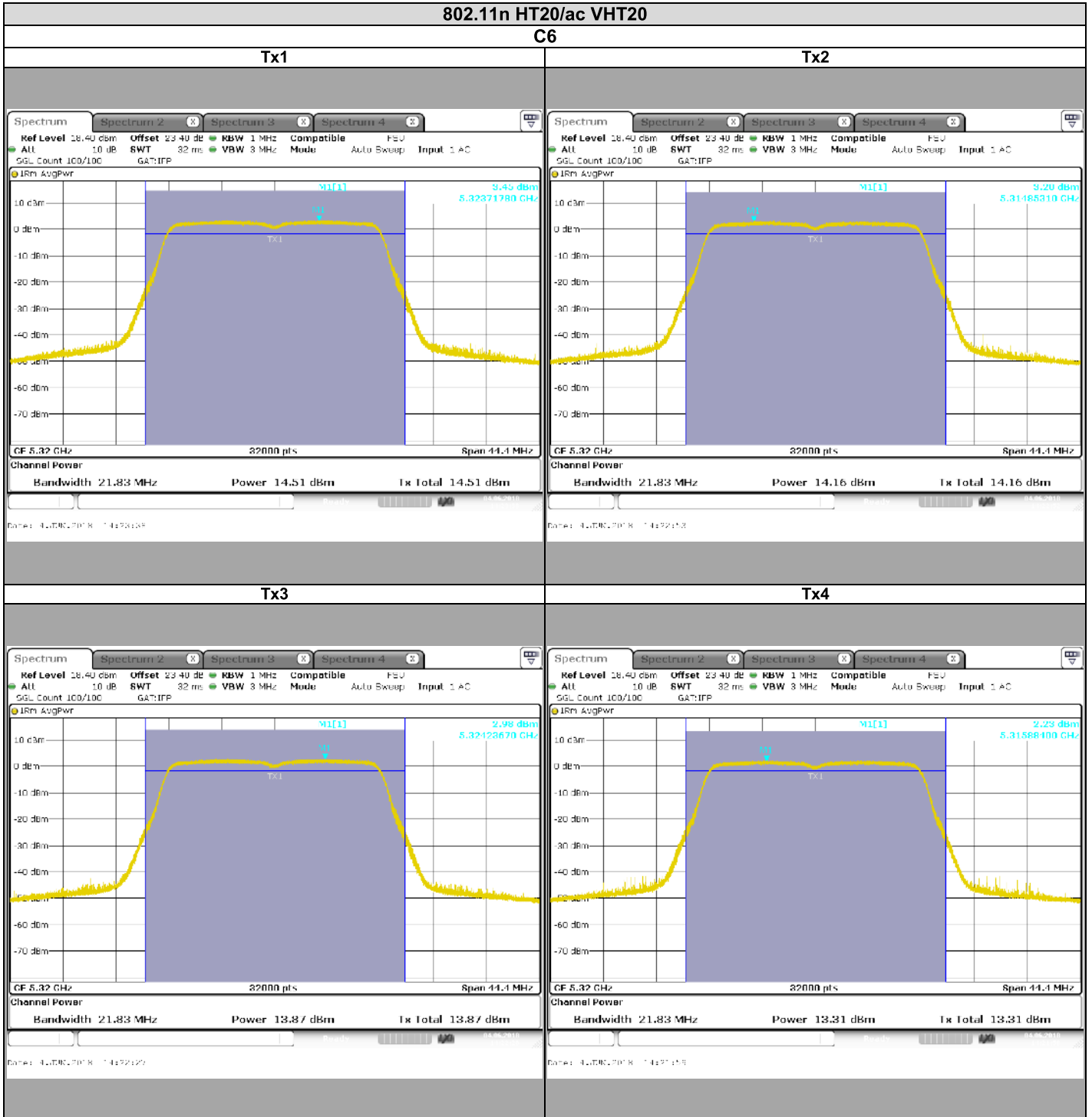
Tx3

Tx4





L C I E





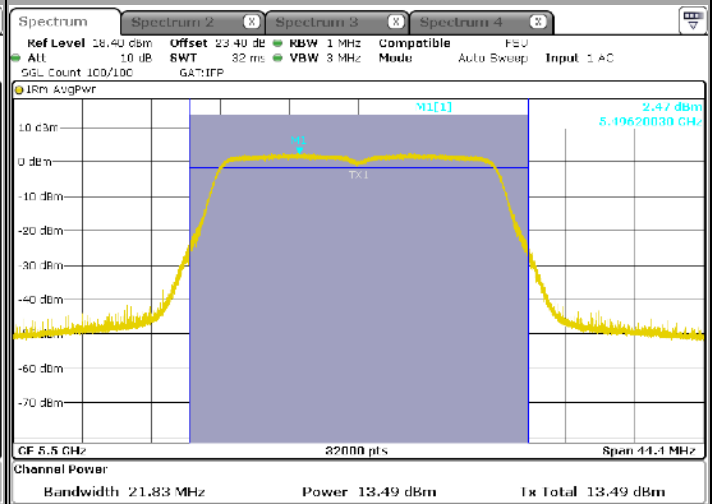
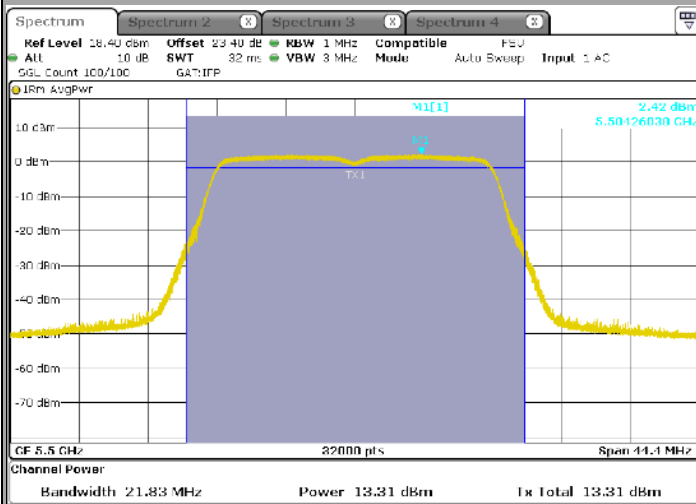
L C I E

802.11n HT20/ac VHT20

C7

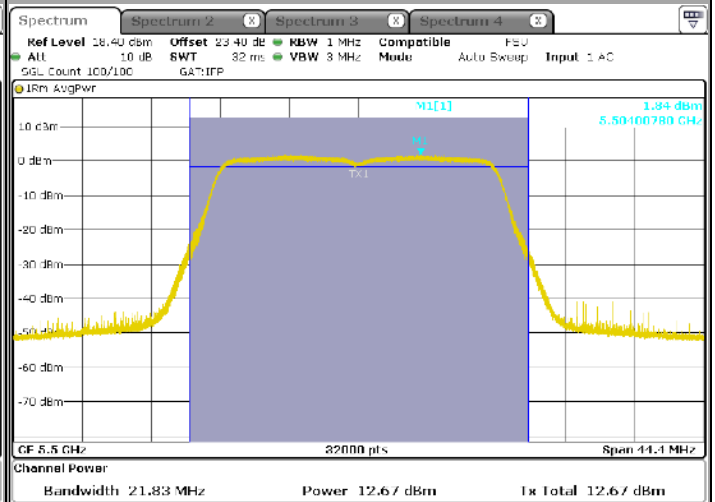
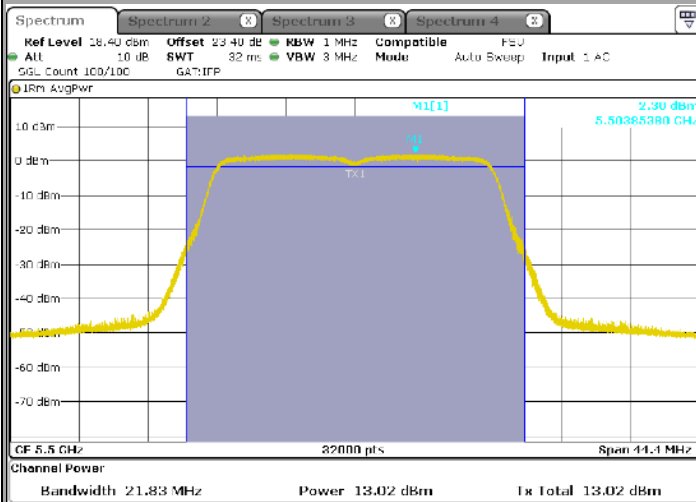
Tx1

Tx2



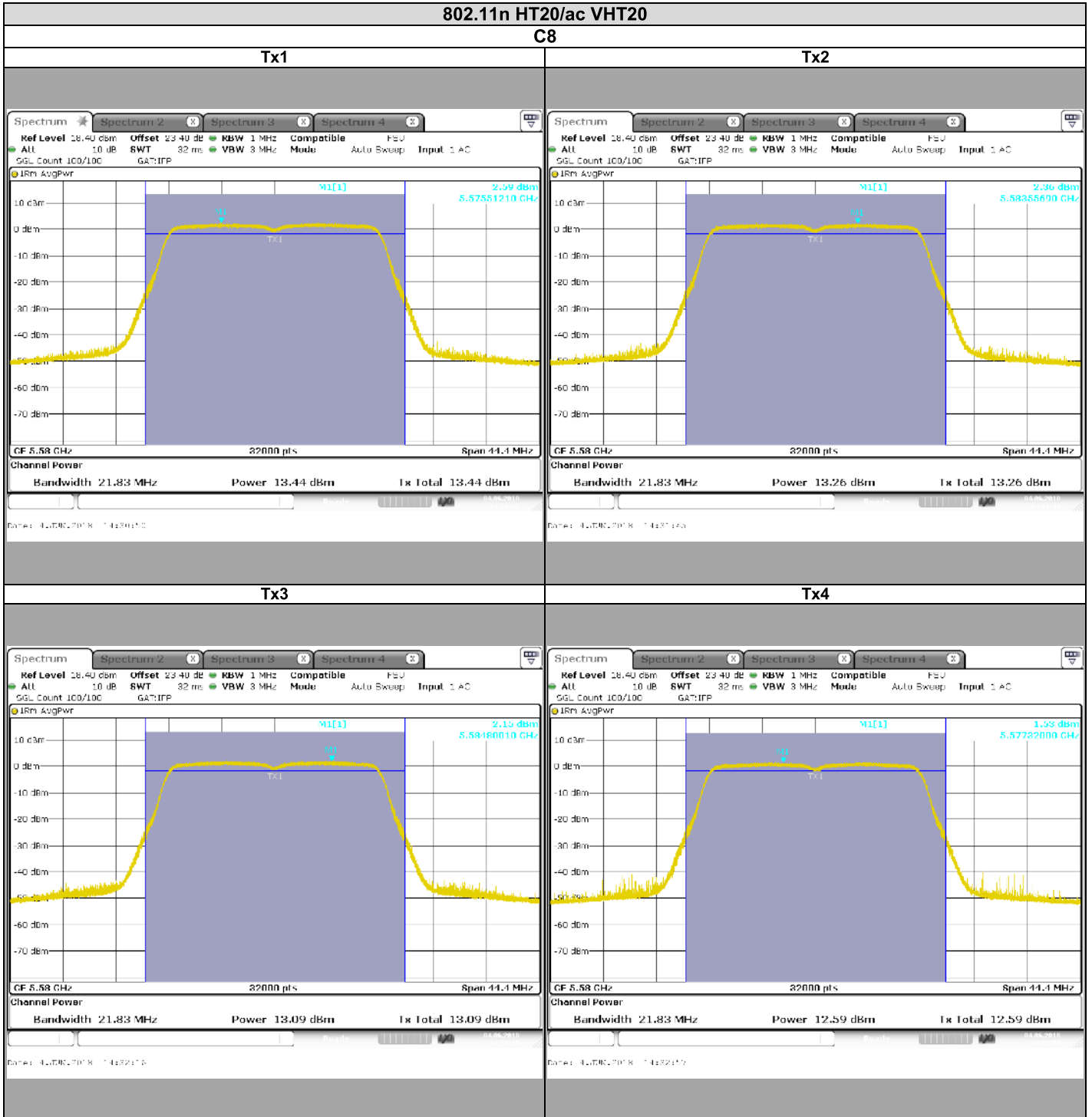
Tx3

Tx4





L C I E





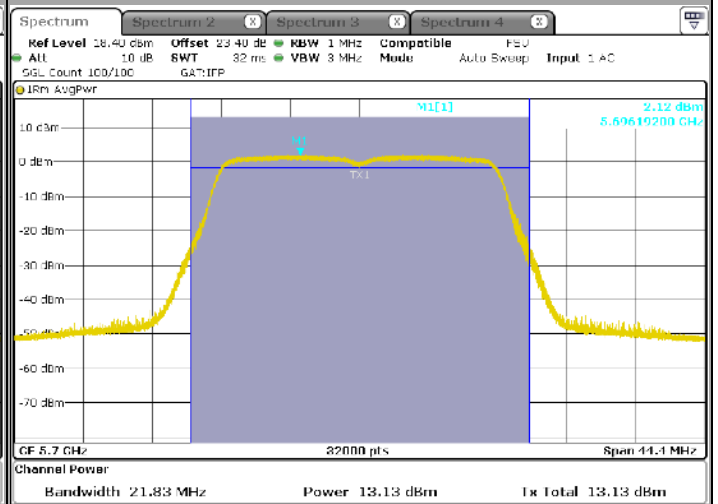
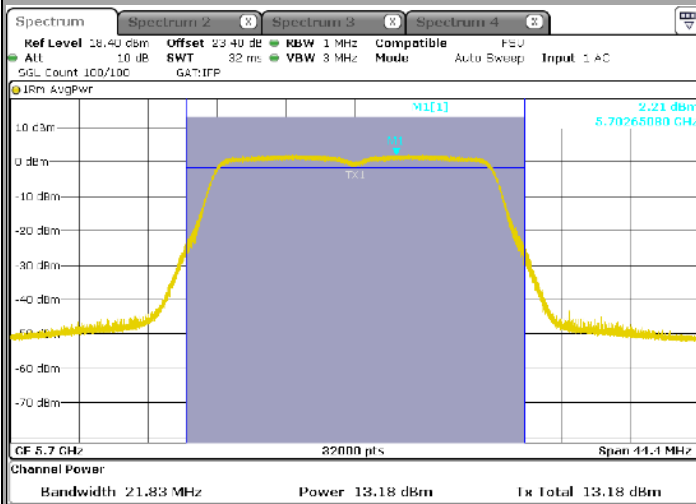
L C I E

802.11n HT20/ac VHT20

C9

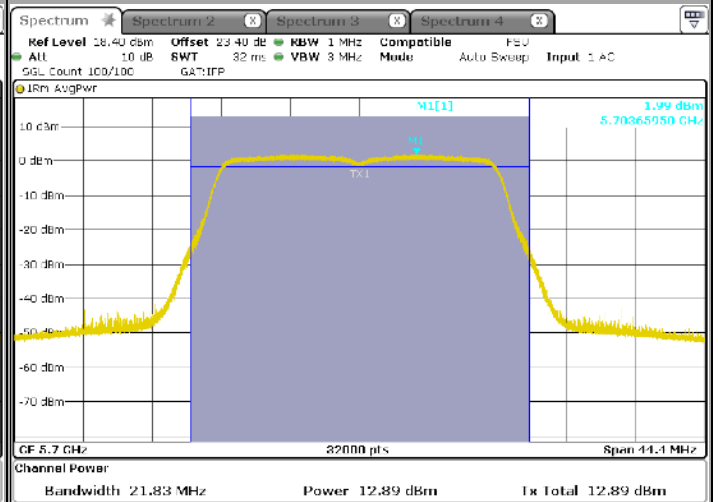
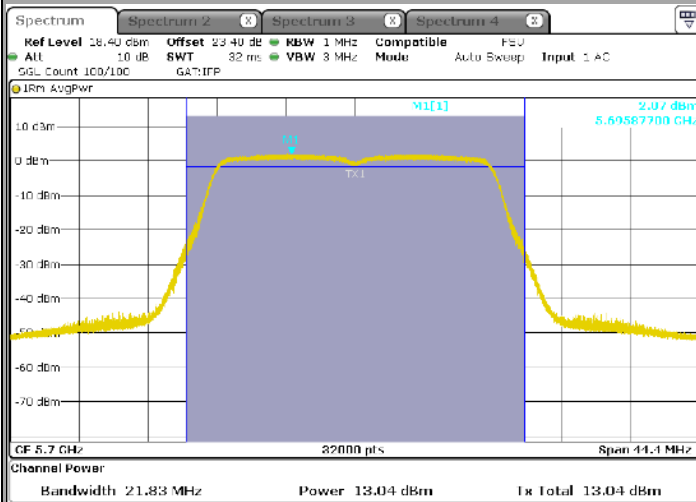
Tx1

Tx2



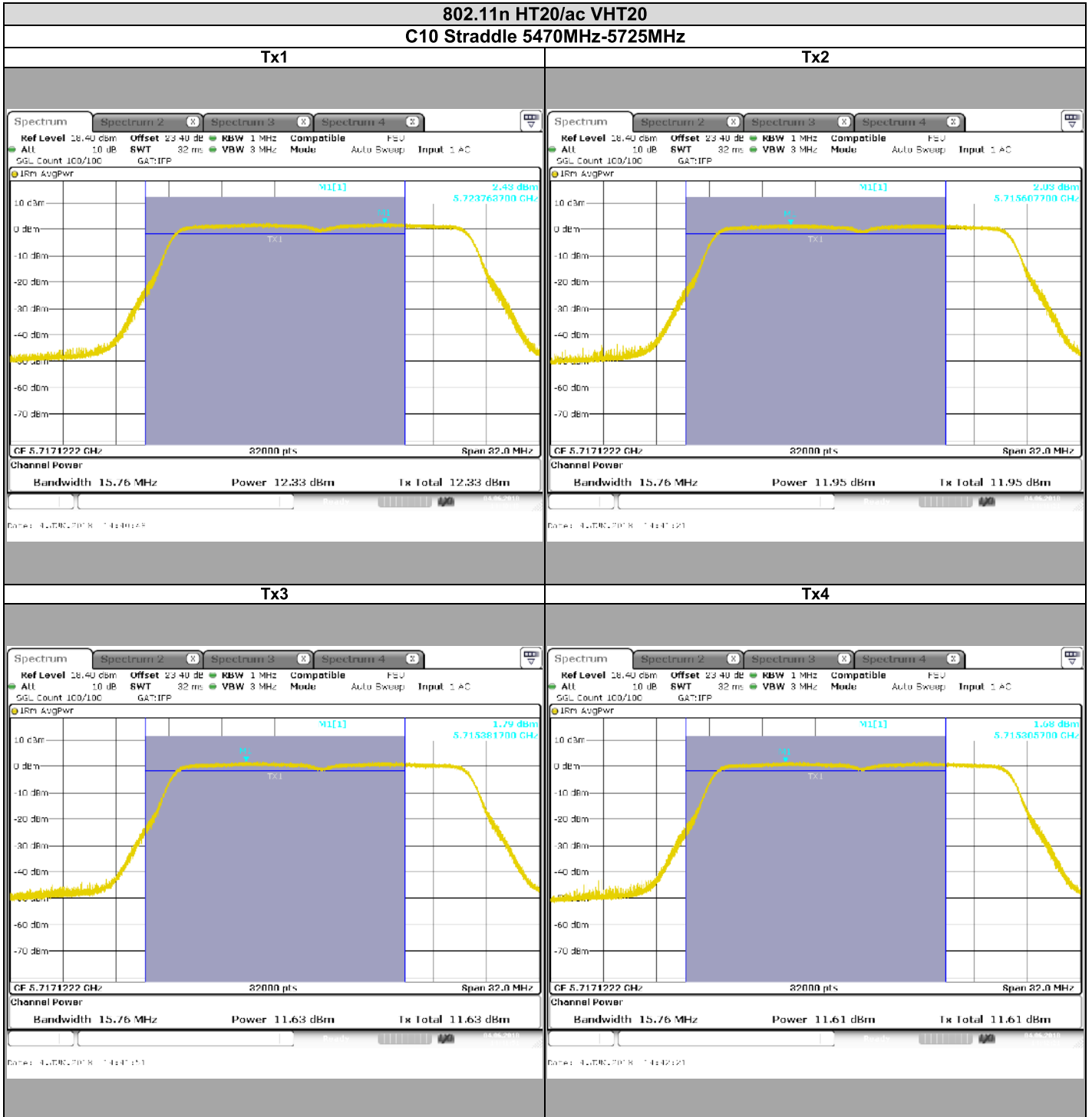
Tx3

Tx4



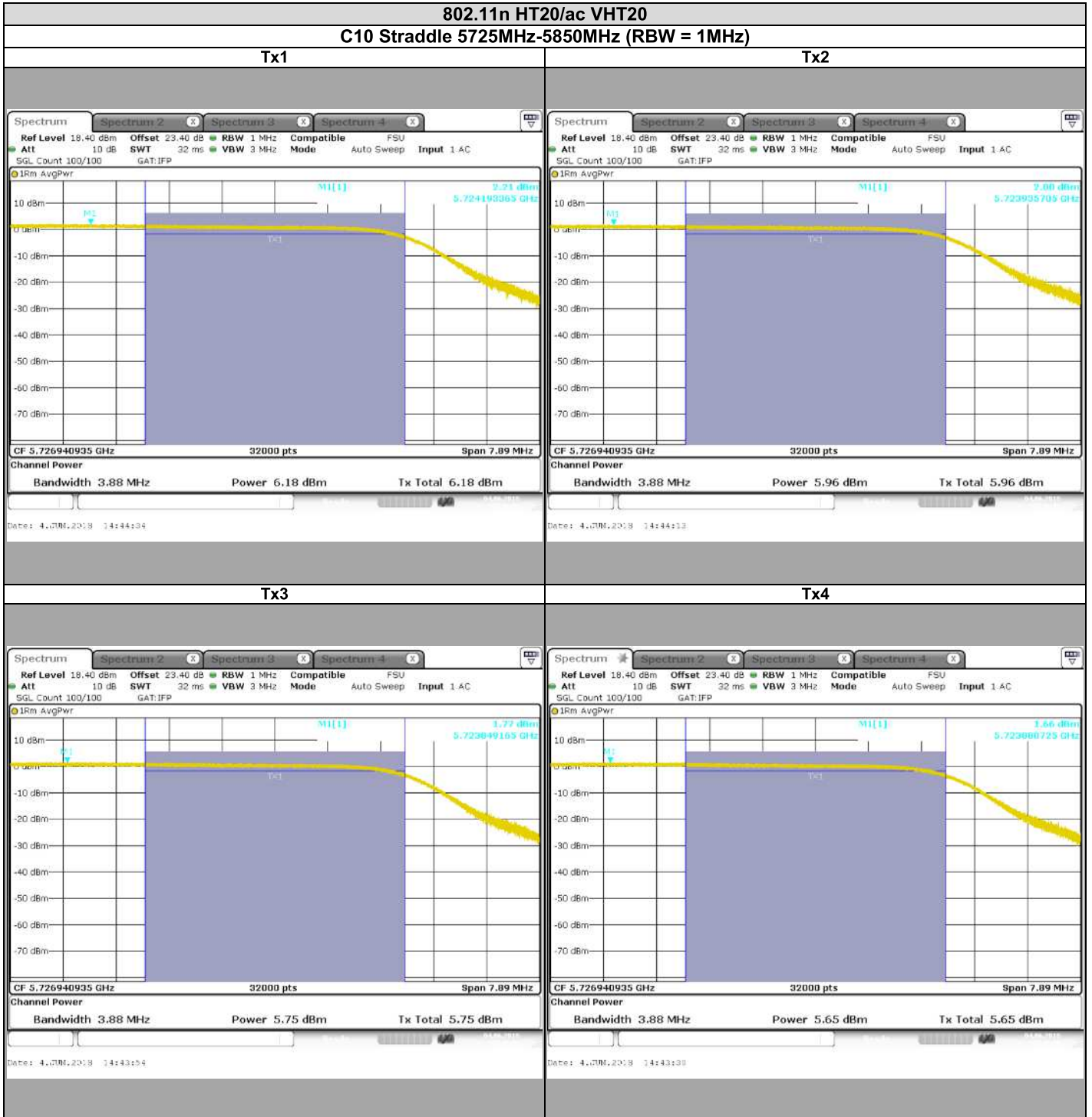


L C I E



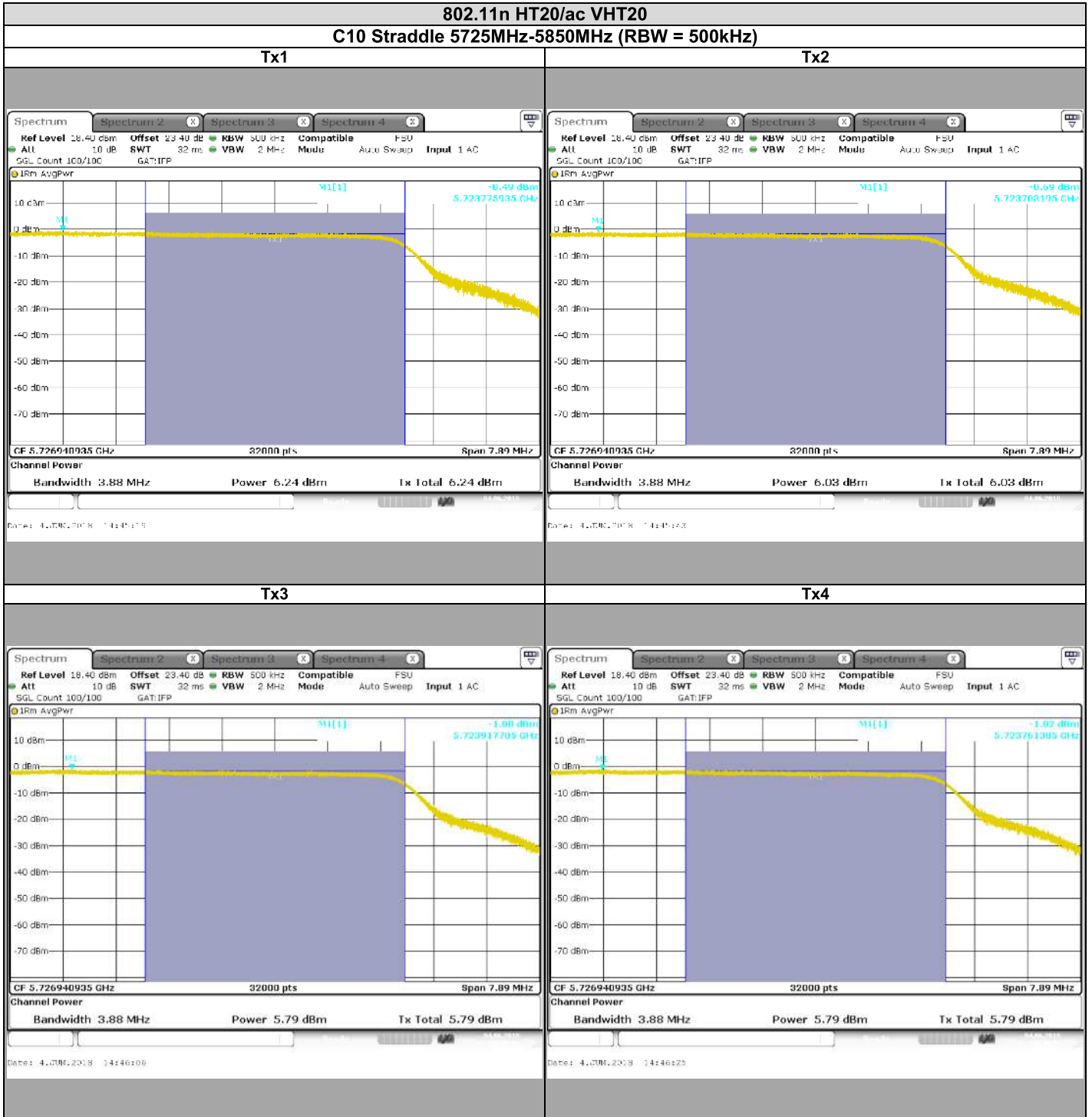


L C I E





L C I E



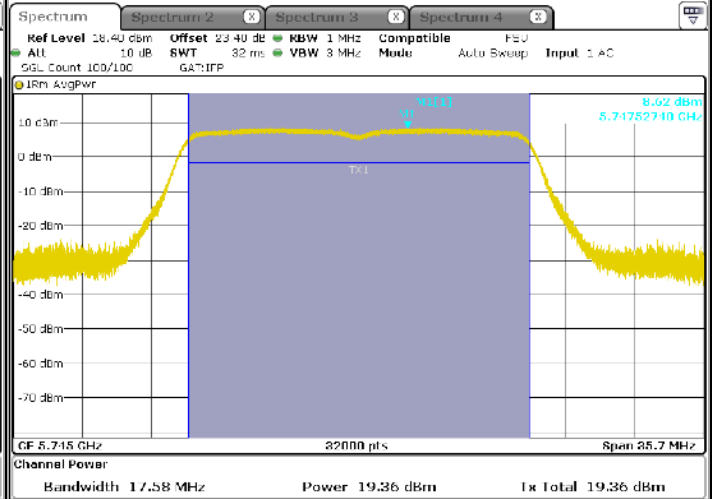
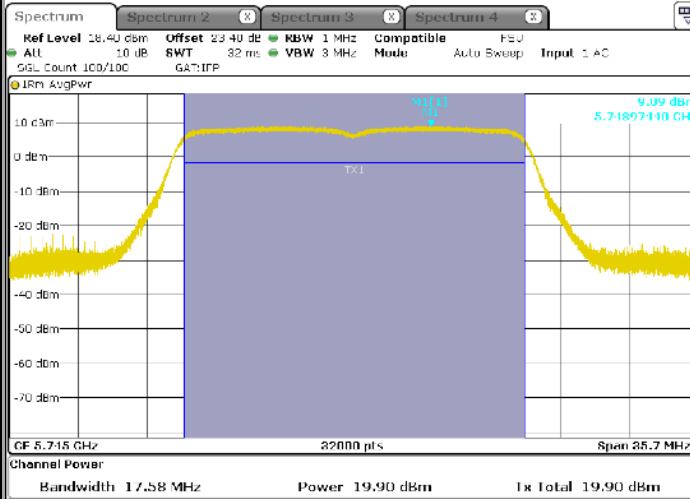


L C I E

802.11n HT20/ac VHT20
C11 (RBW = 1MHz)

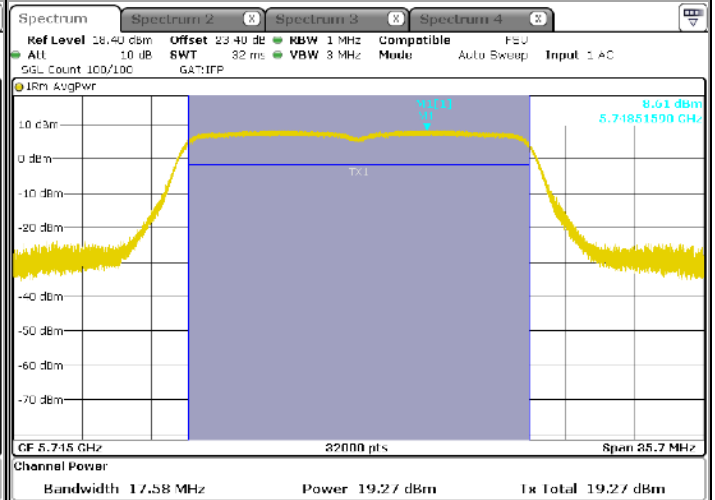
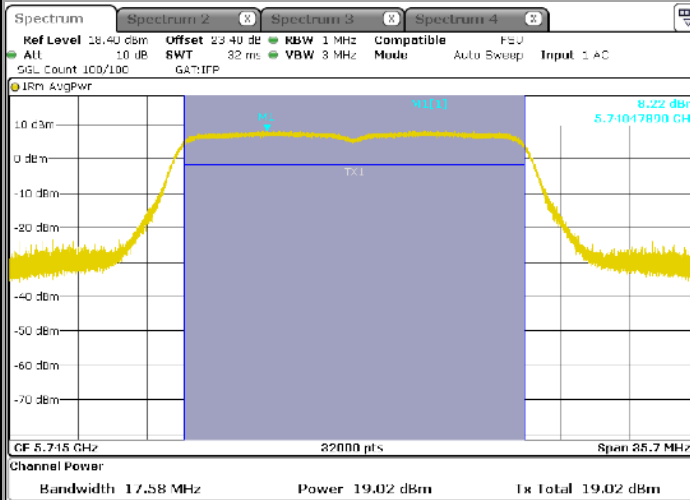
Tx1

Tx2



Tx3

Tx4



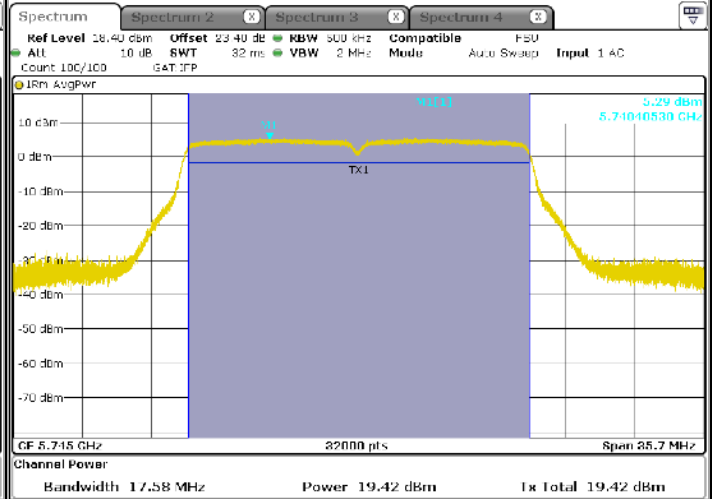
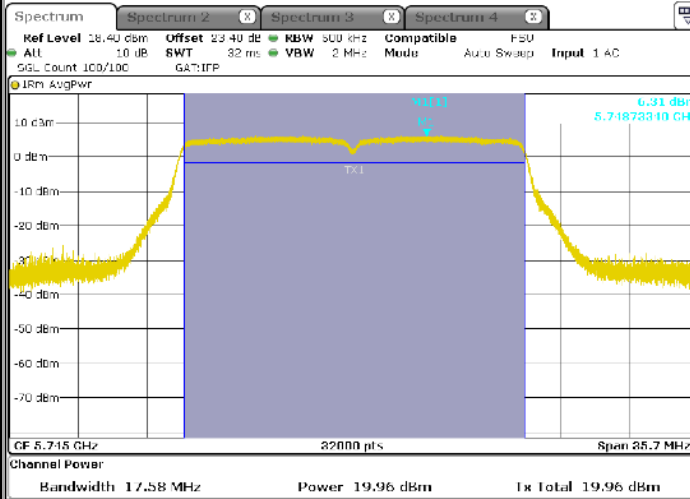


L C I E

802.11n HT20/ac VHT20
C11 (RBW = 500kHz)

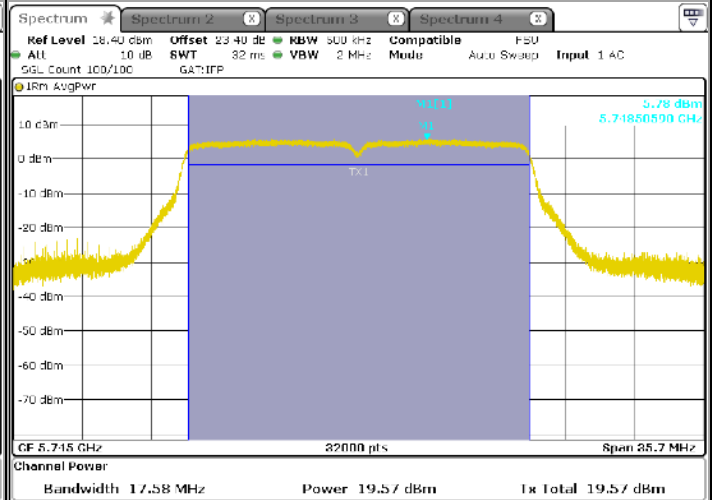
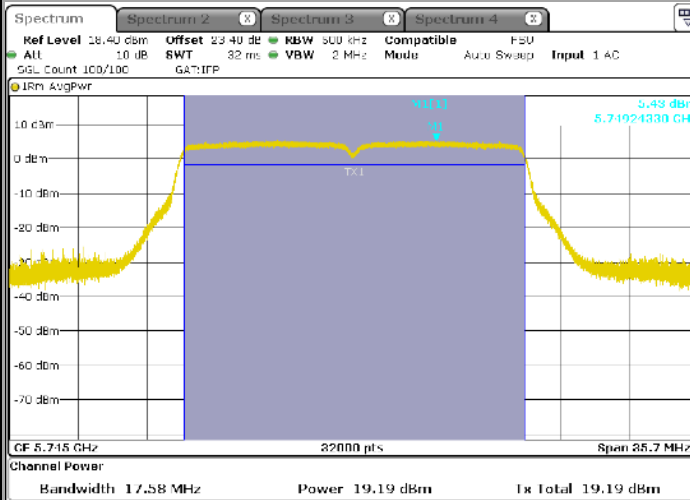
Tx1

Tx2



Tx3

Tx4



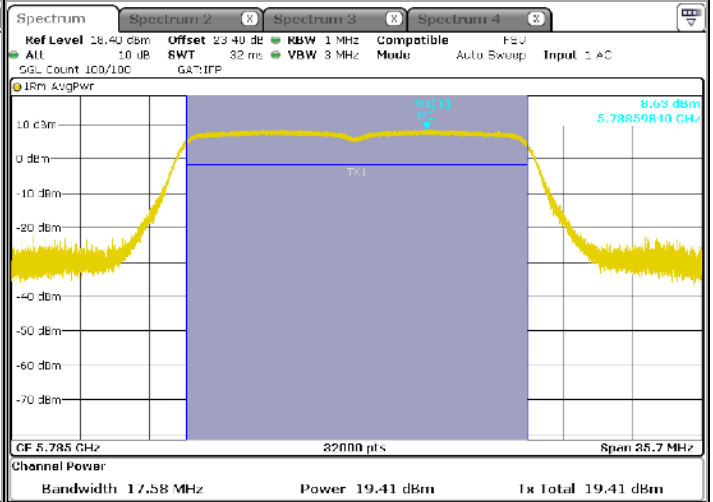
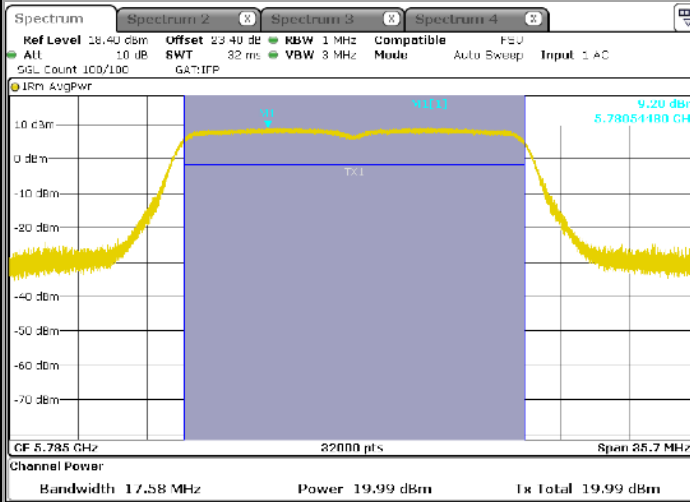


LCIE

802.11n HT20/ac VHT20
C12 (RBW = 1MHz)

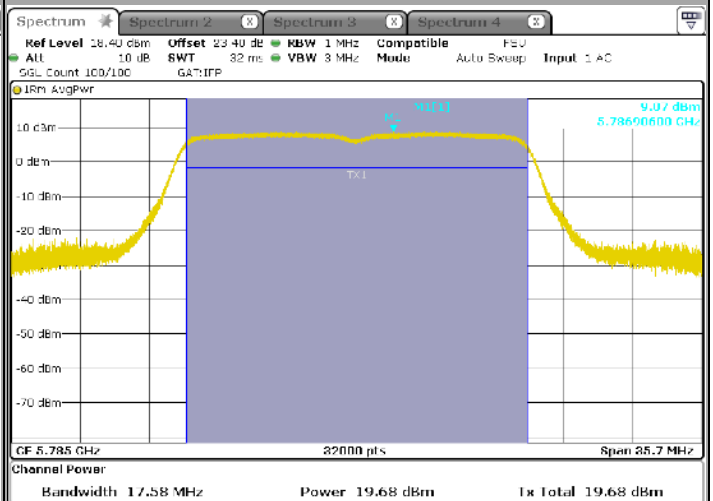
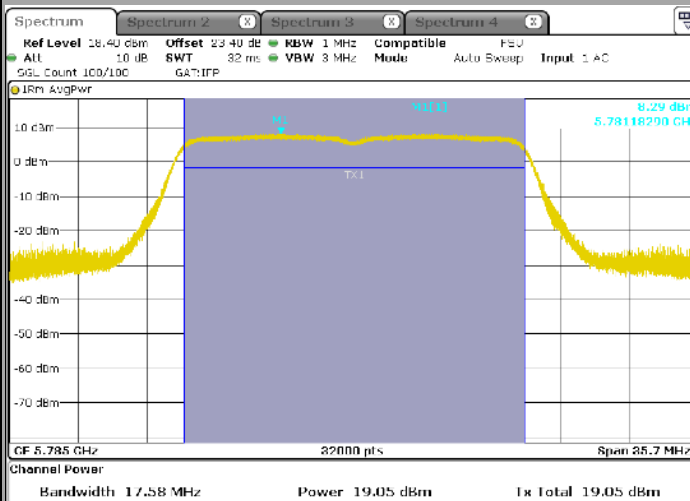
Tx1

Tx2



Tx3

Tx4



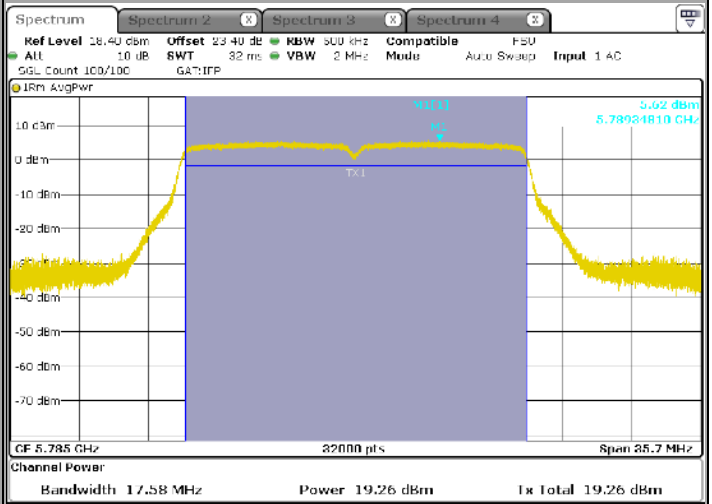
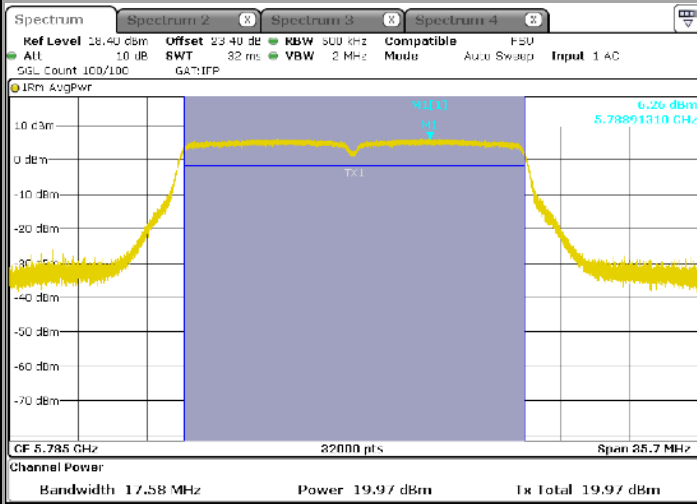


L C I E

802.11n HT20/ac VHT20
C12 (RBW = 500kHz)

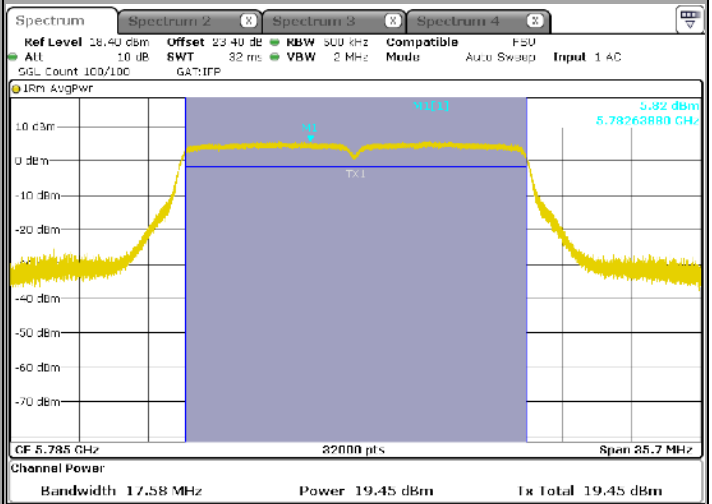
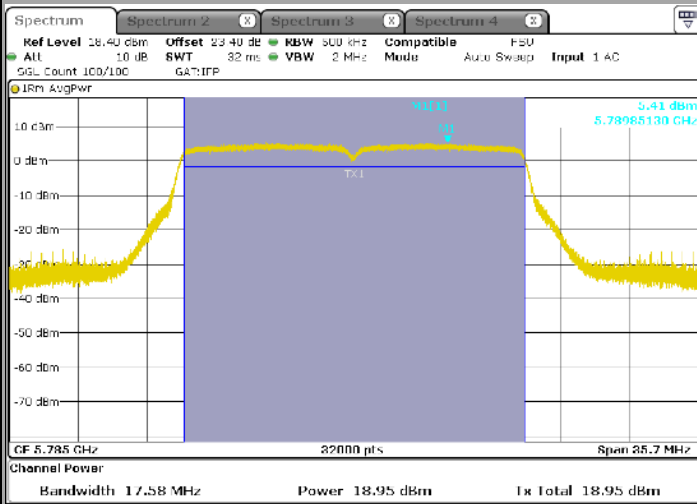
Tx1

Tx2



Tx3

Tx4



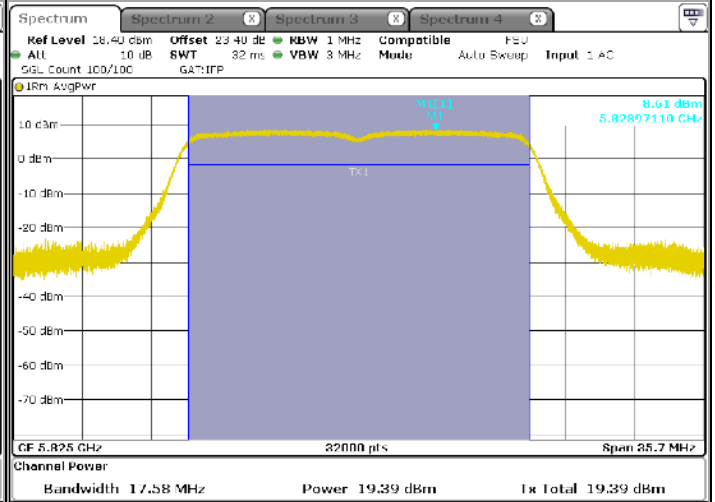
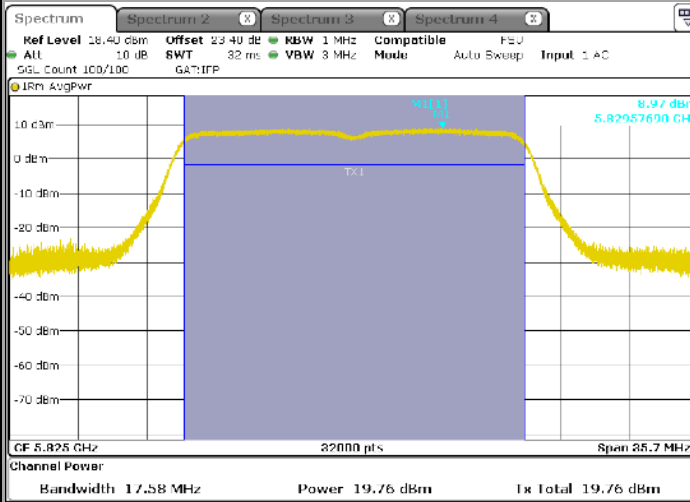


L C I E

802.11n HT20/ac VHT20
C13 (RBW = 1MHz)

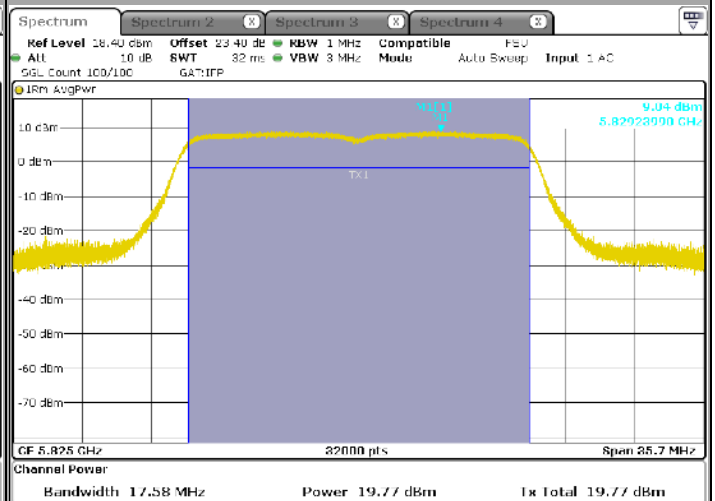
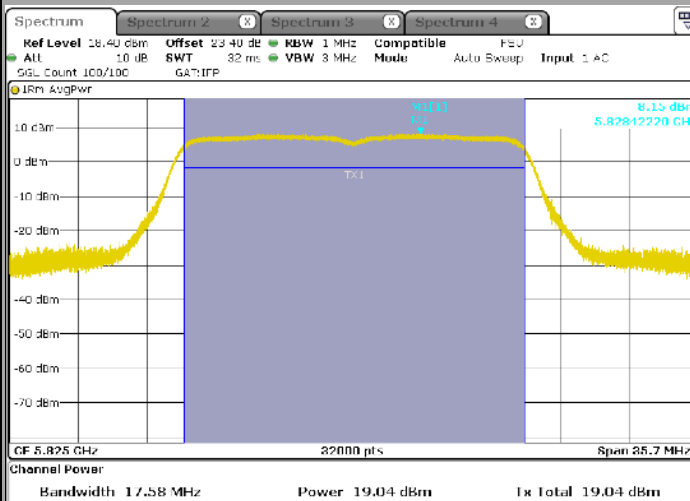
Tx1

Tx2



Tx3

Tx4



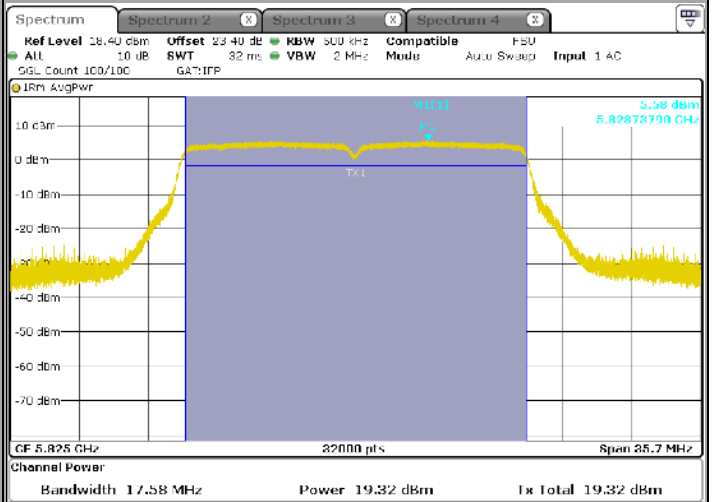
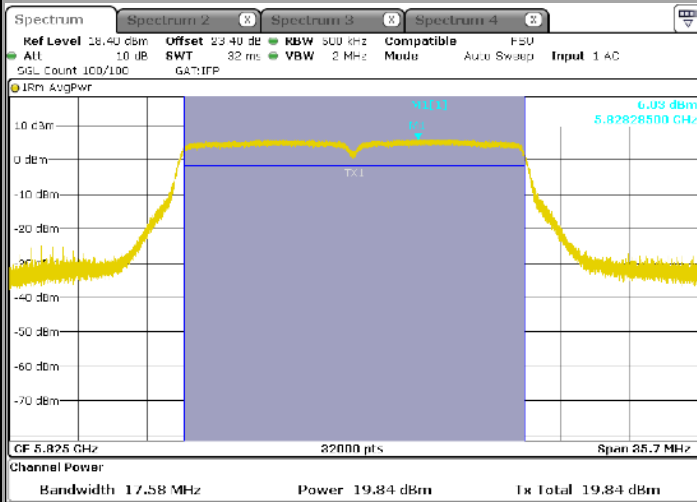


L C I E

802.11n HT20/ac VHT20
C13 (RBW = 500kHz)

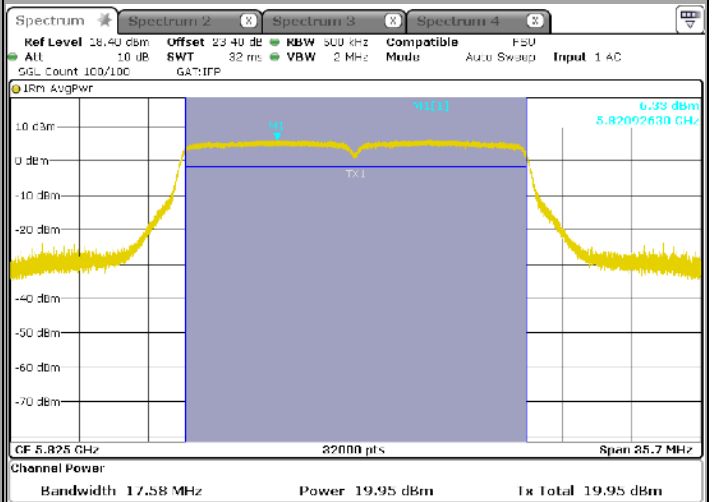
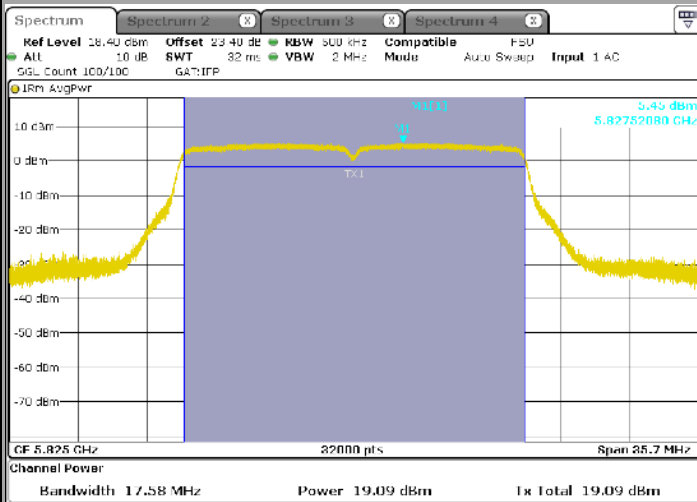
Tx1

Tx2



Tx3

Tx4





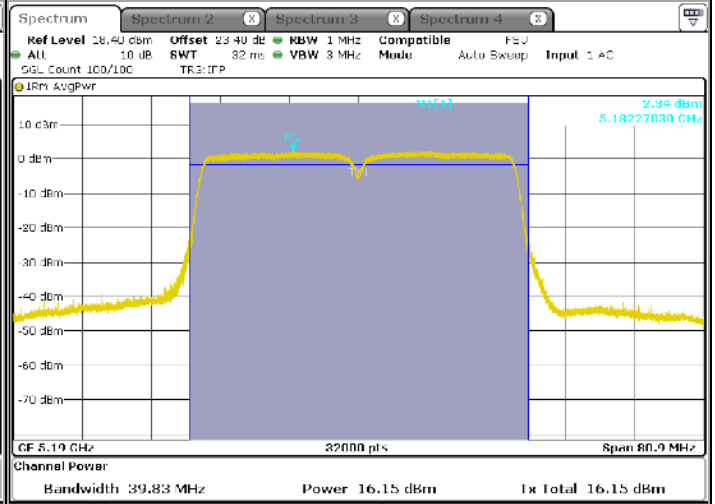
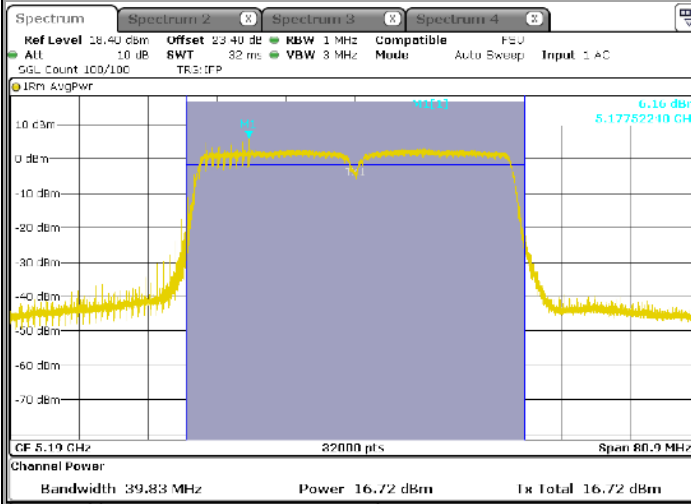
L C I E

802.11n HT40/ac VHT40

C14

Tx1

Tx2



Tx3

Tx4

