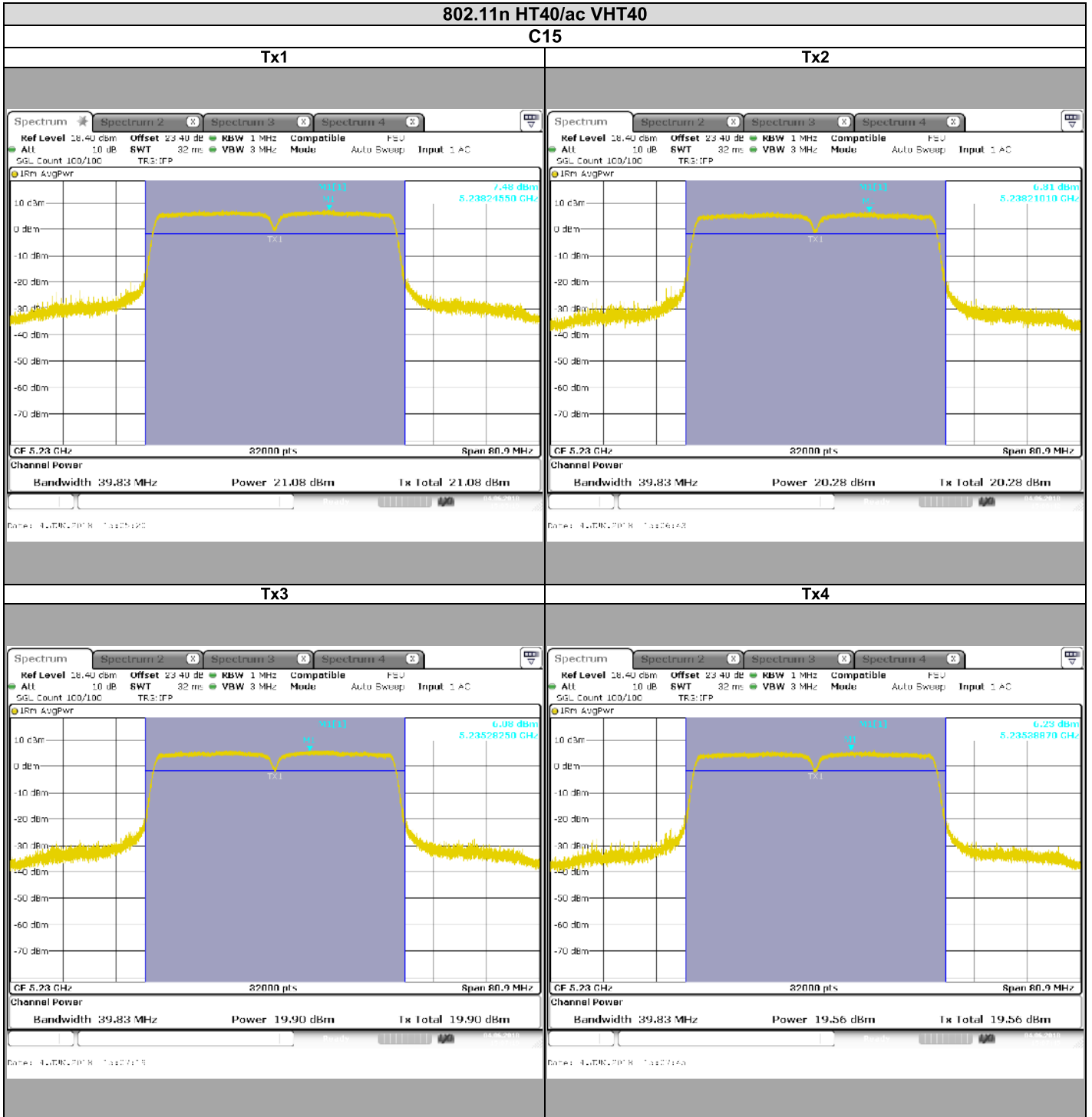


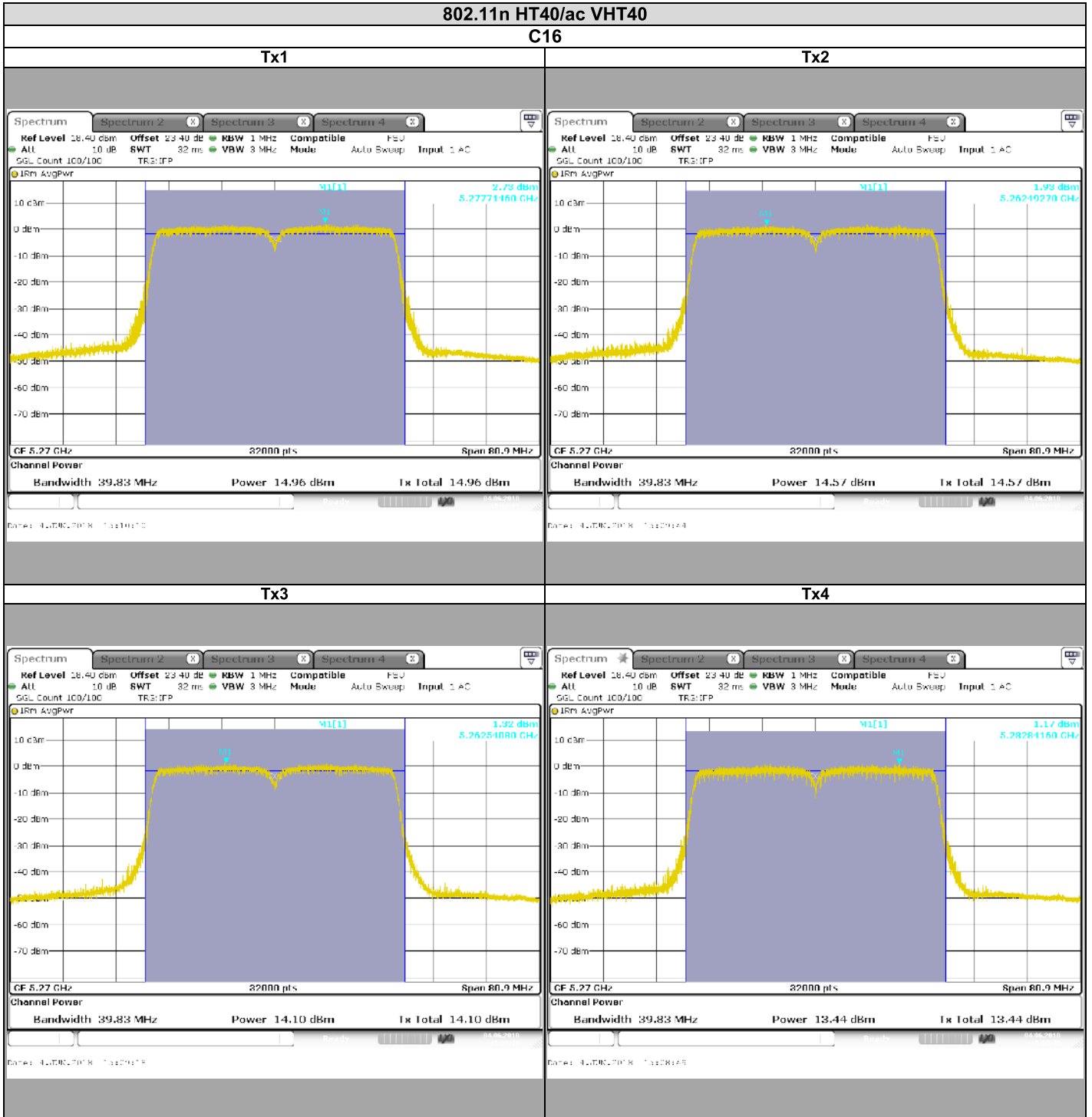


L C I E



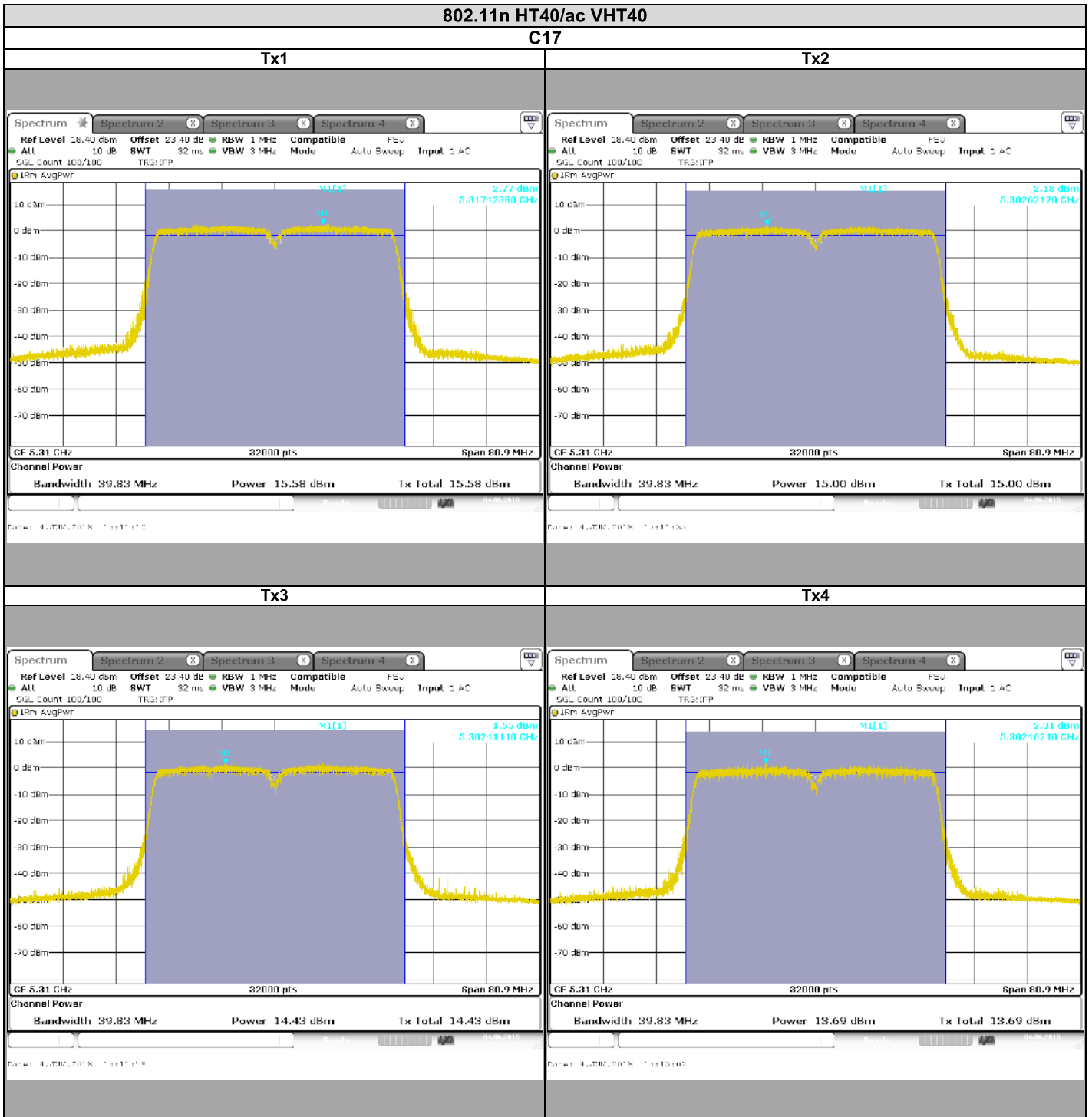


L C I E



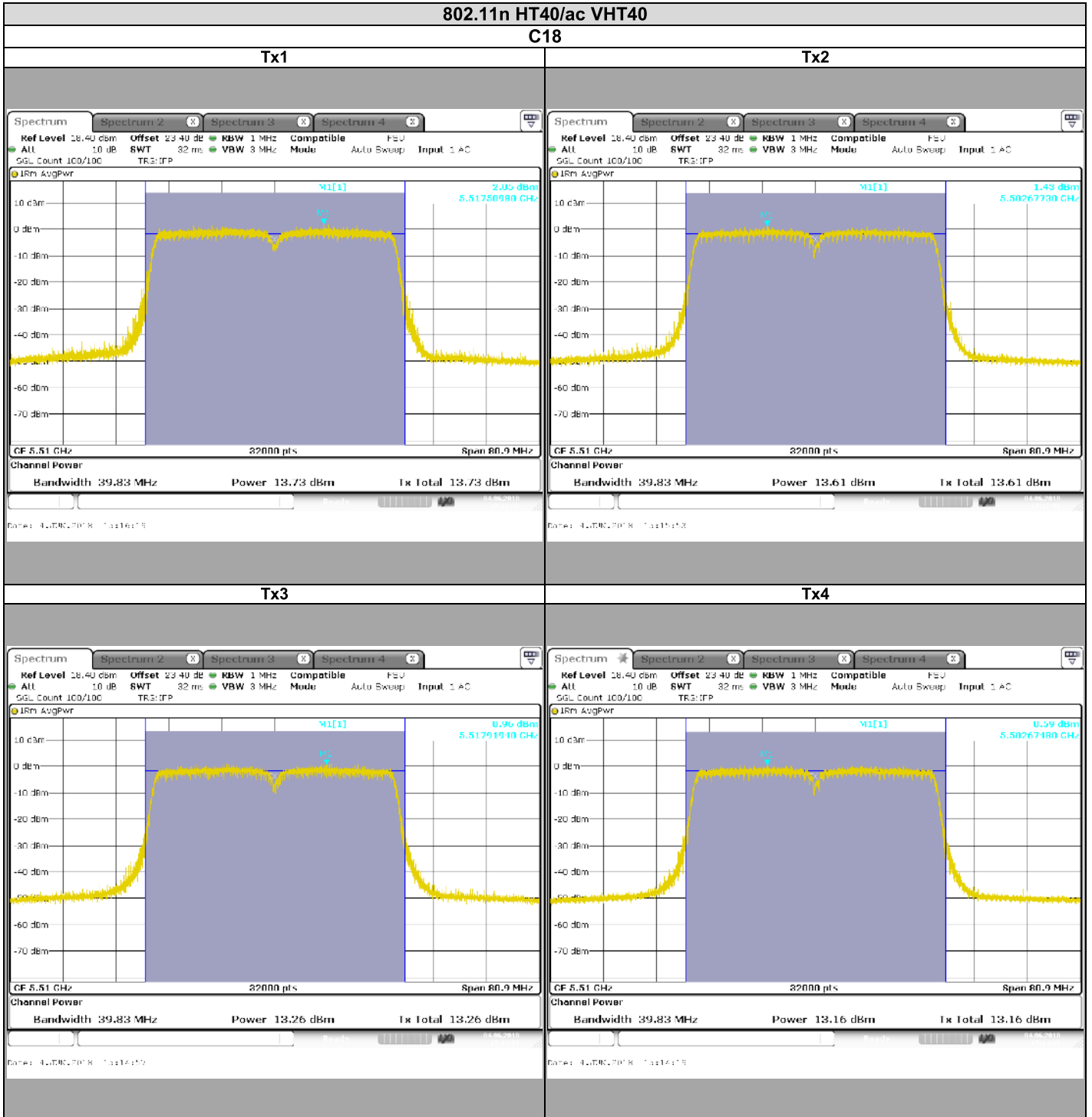


L C I E





L C I E





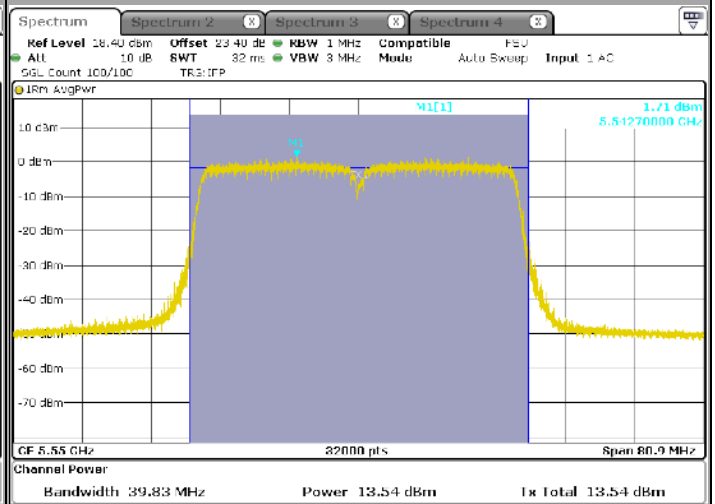
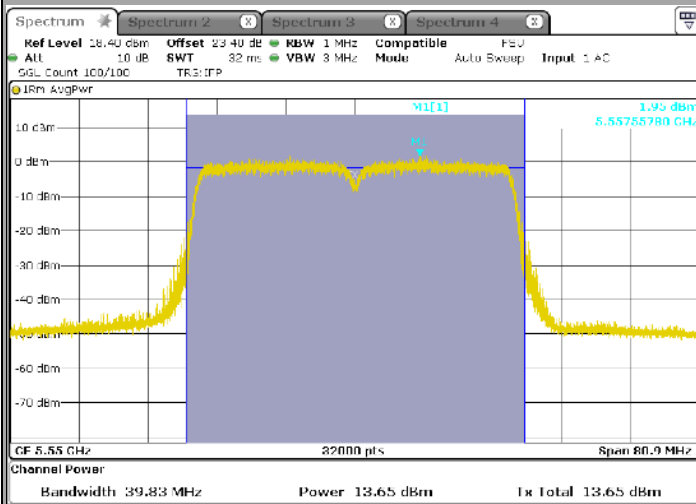
L C I E

### 802.11n HT40/ac VHT40

#### C19

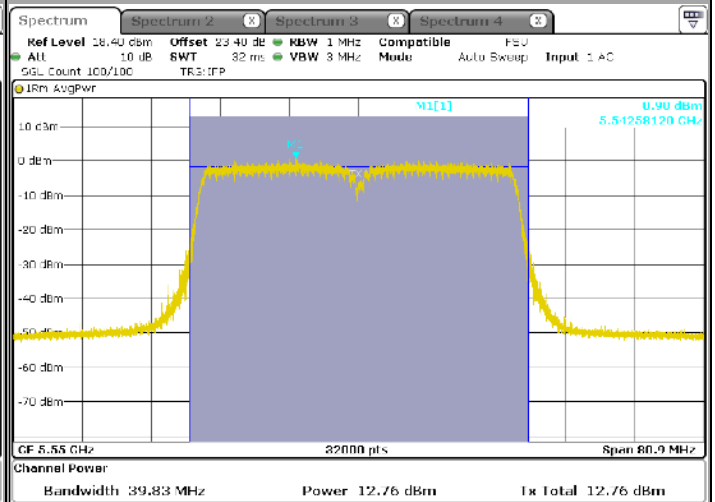
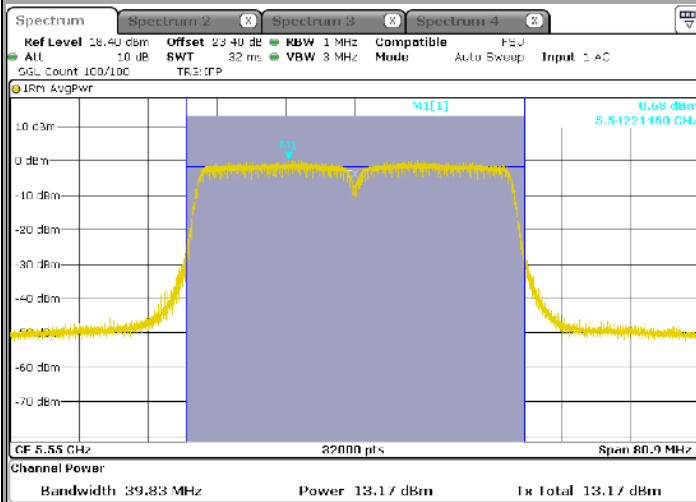
#### Tx1

#### Tx2



#### Tx3

#### Tx4





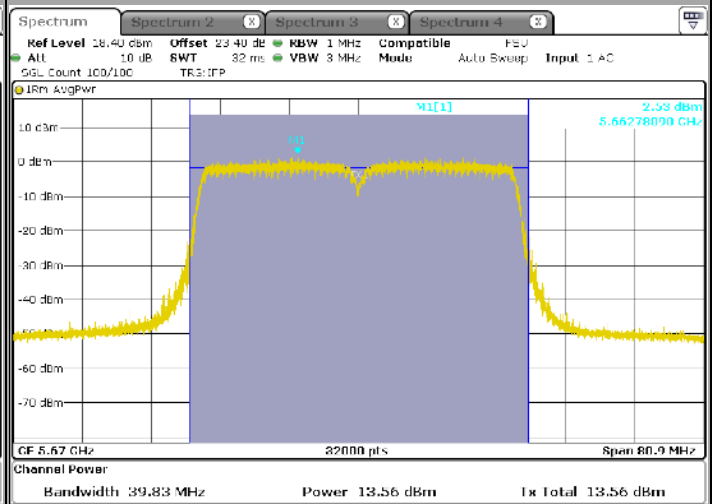
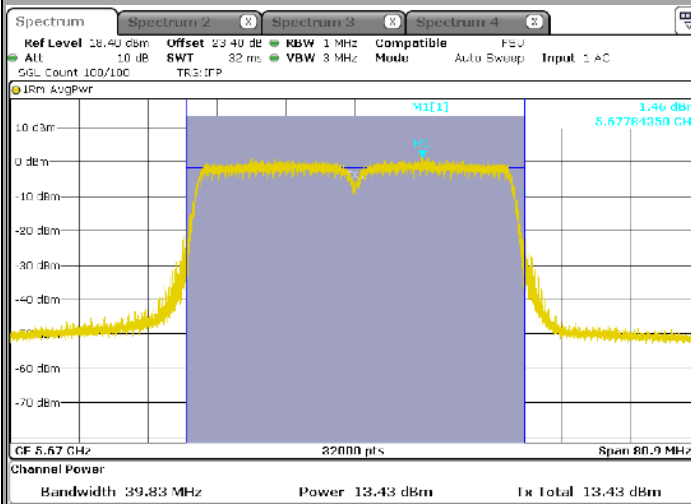
L C I E

### 802.11n HT40/ac VHT40

#### C20

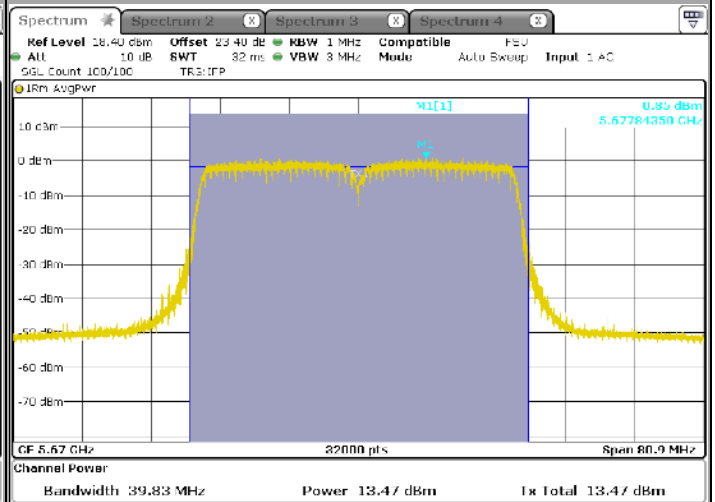
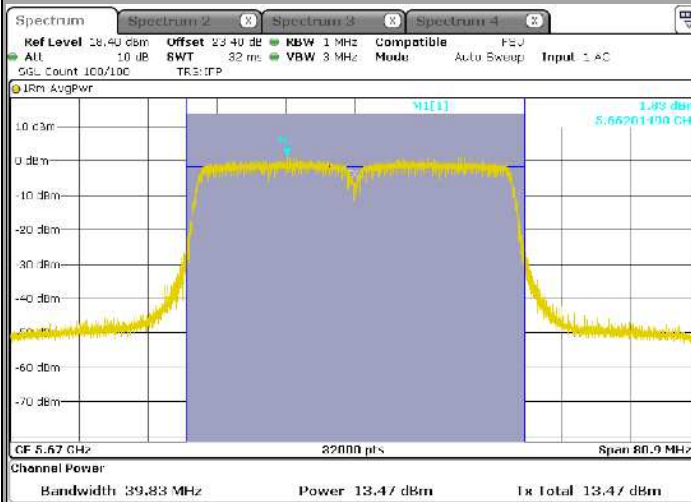
#### Tx1

#### Tx2



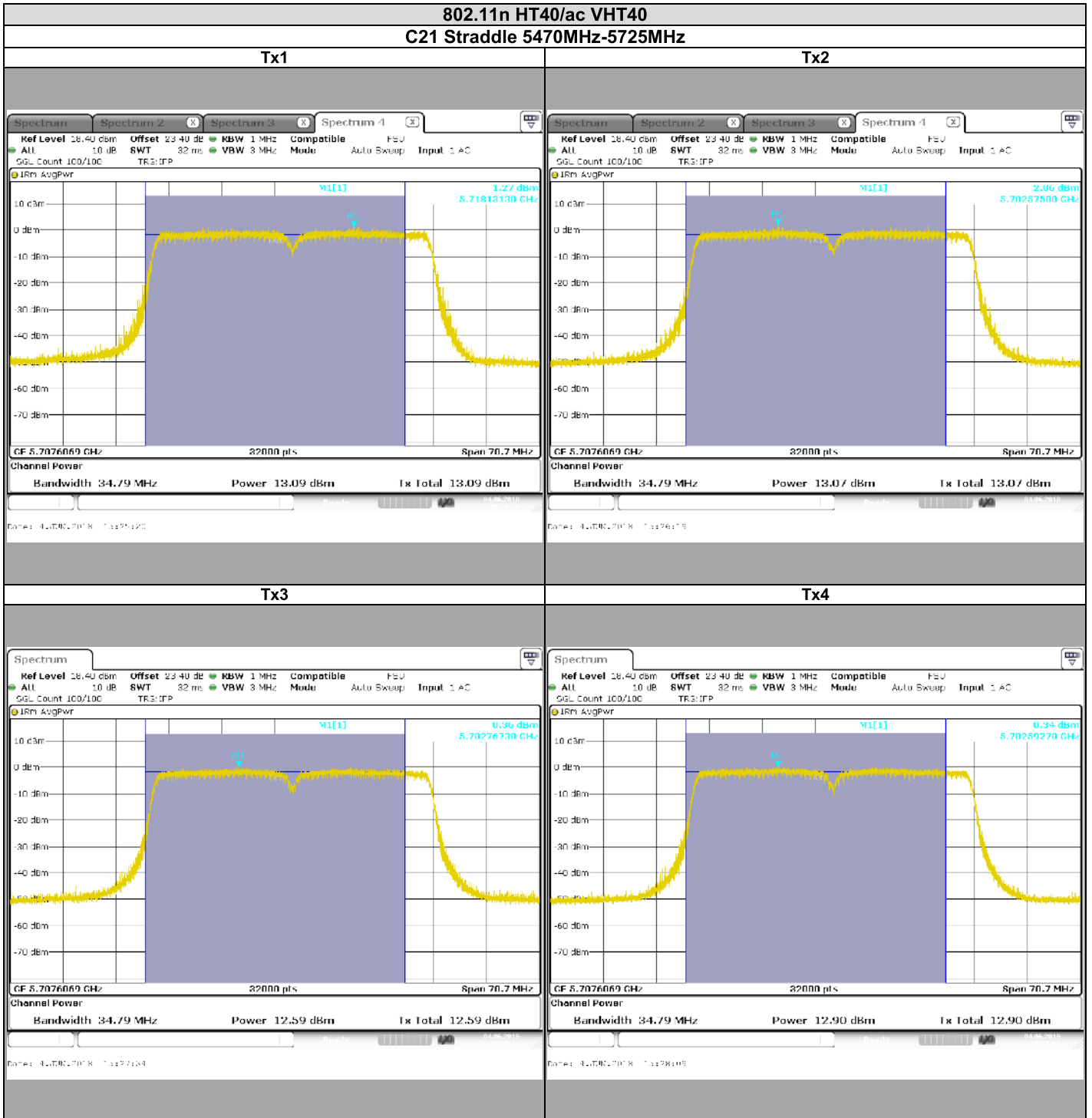
#### Tx3

#### Tx4



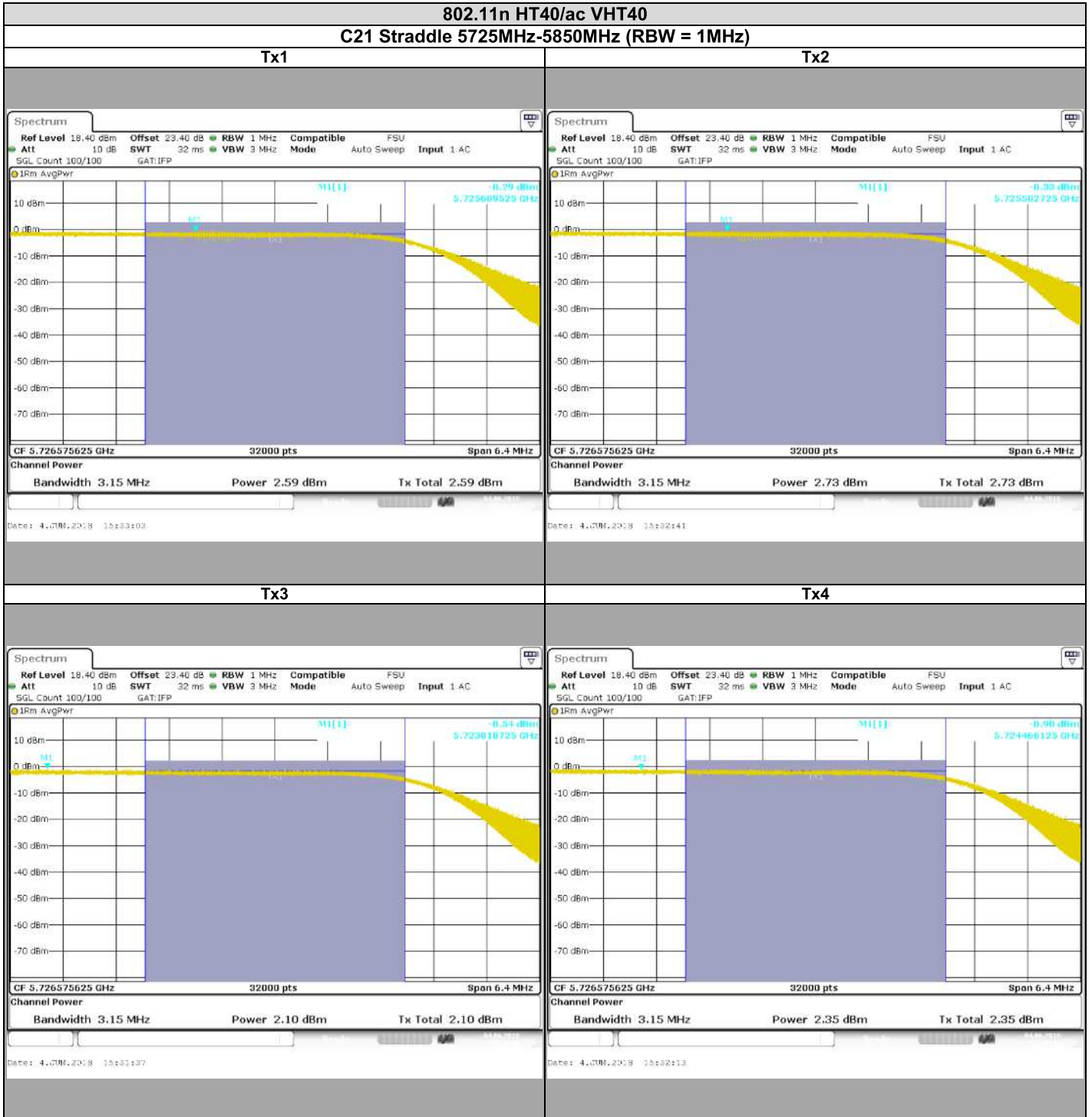


L C I E





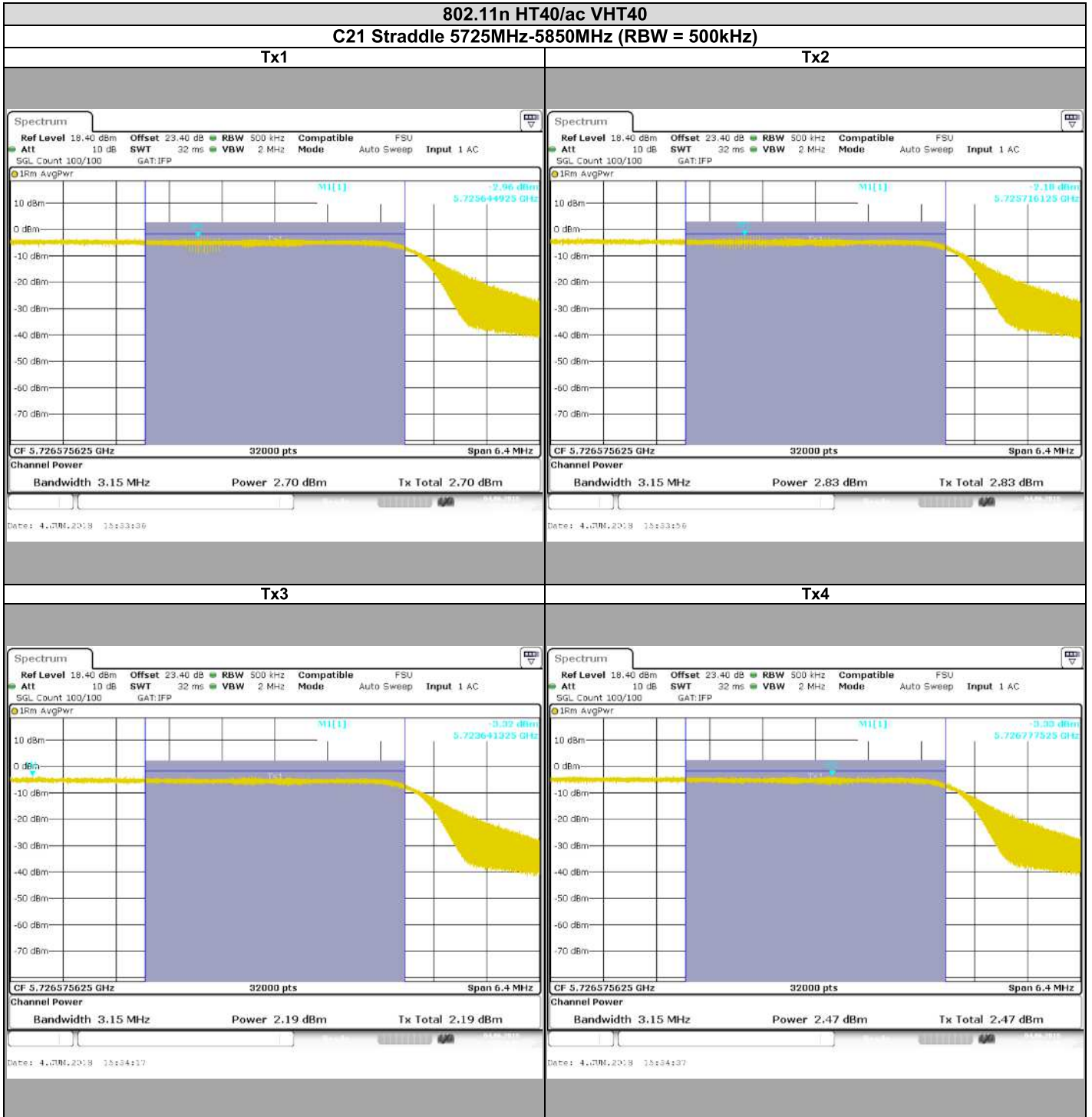
L C I E







L C I E



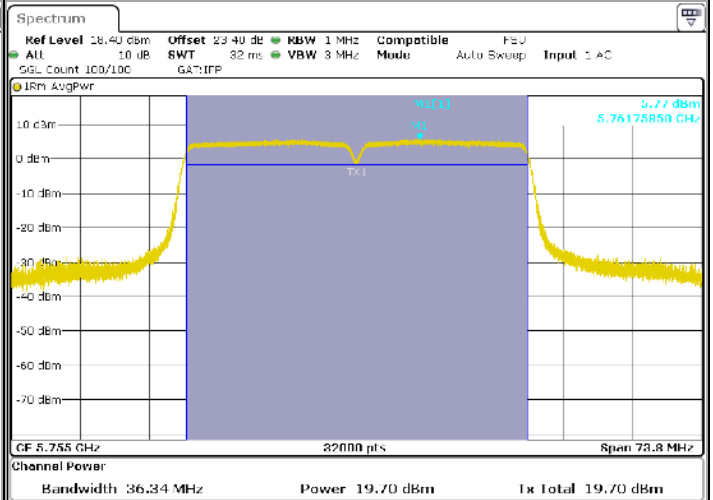
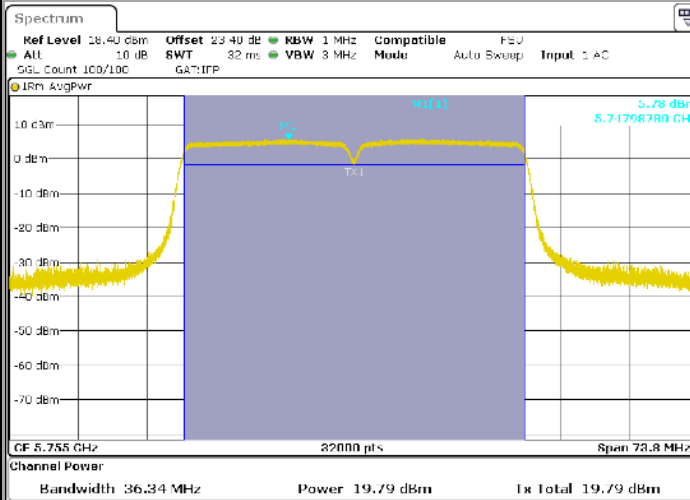


L C I E

802.11n HT40/ac VHT40  
C22 (RBW = 1MHz)

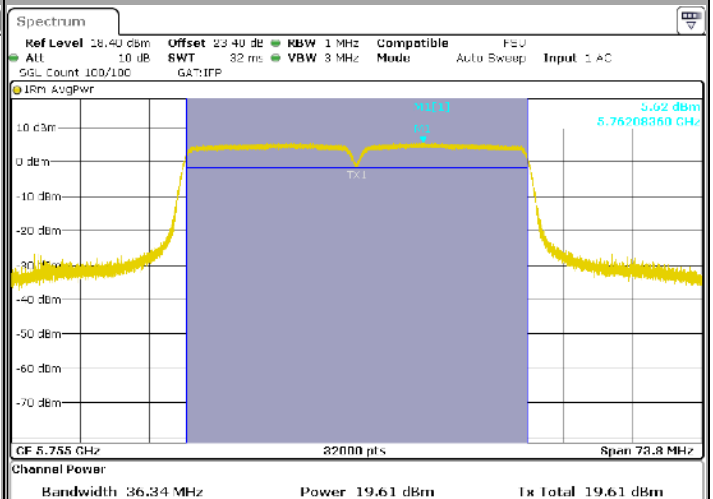
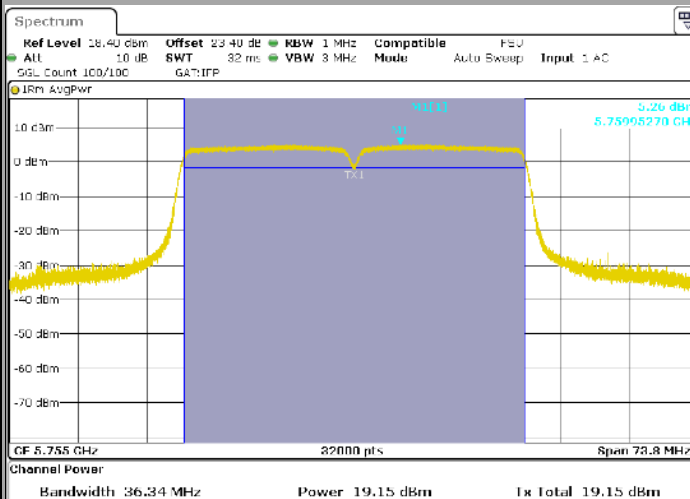
Tx1

Tx2



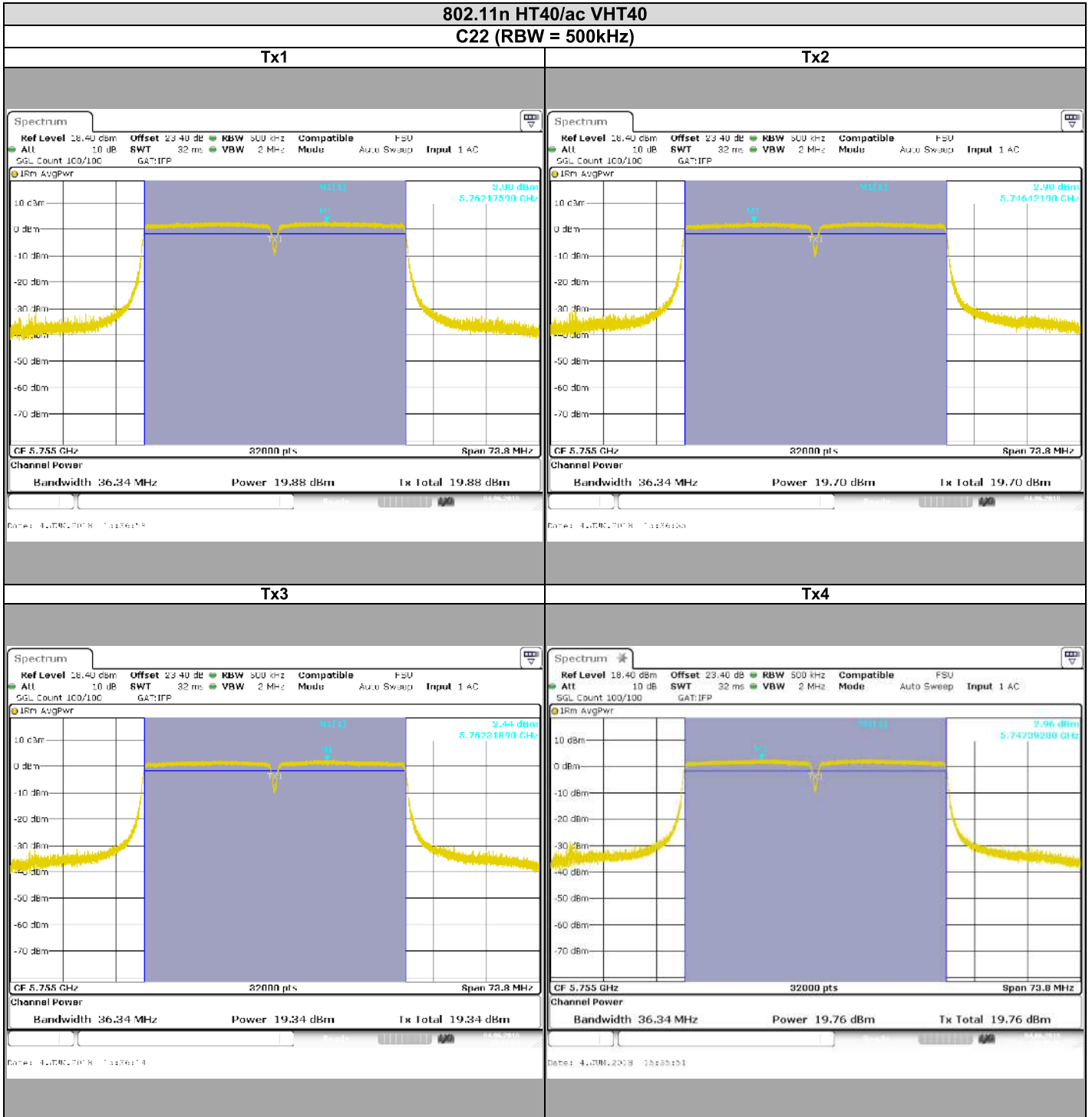
Tx3

Tx4



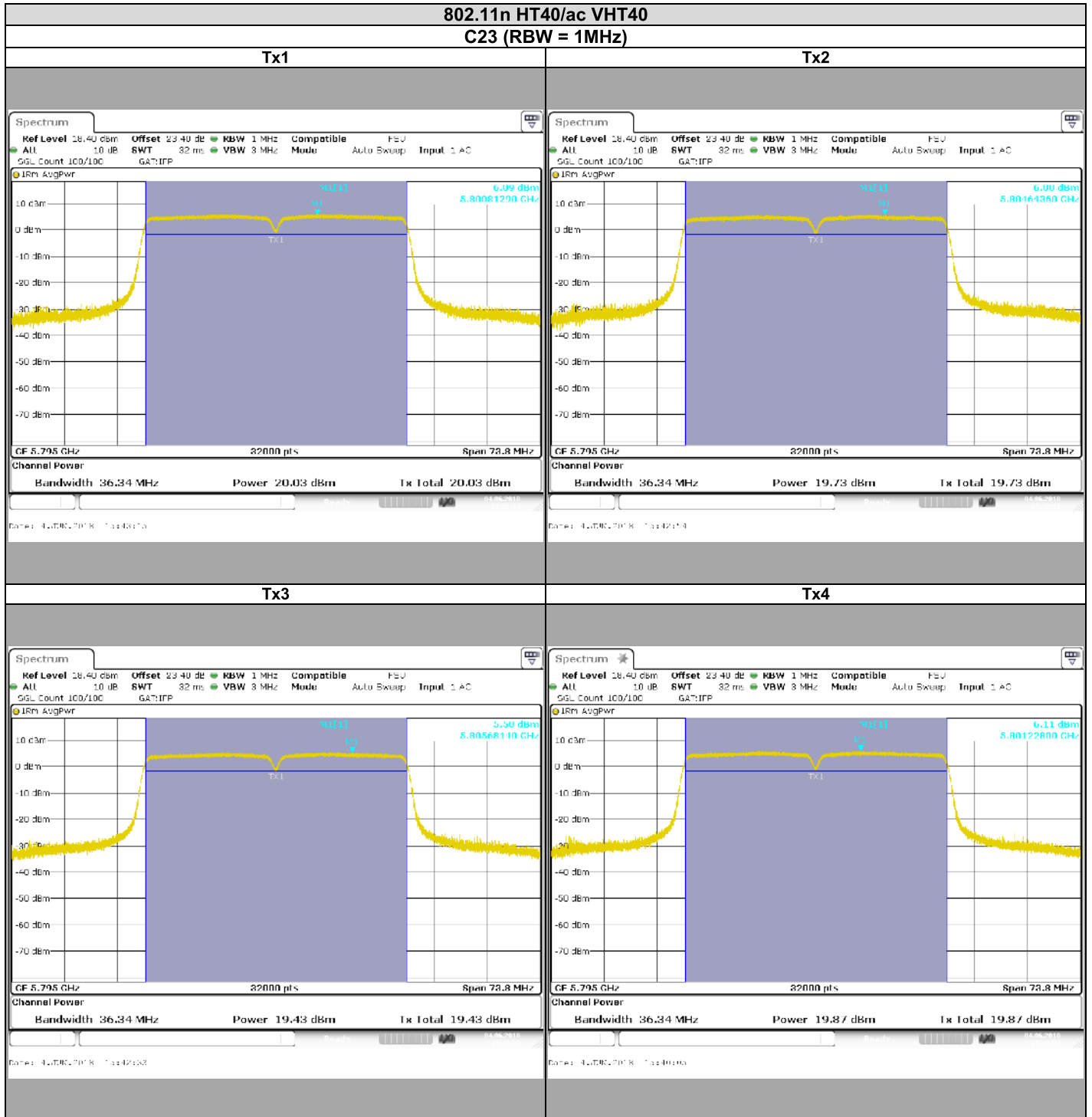


L C I E



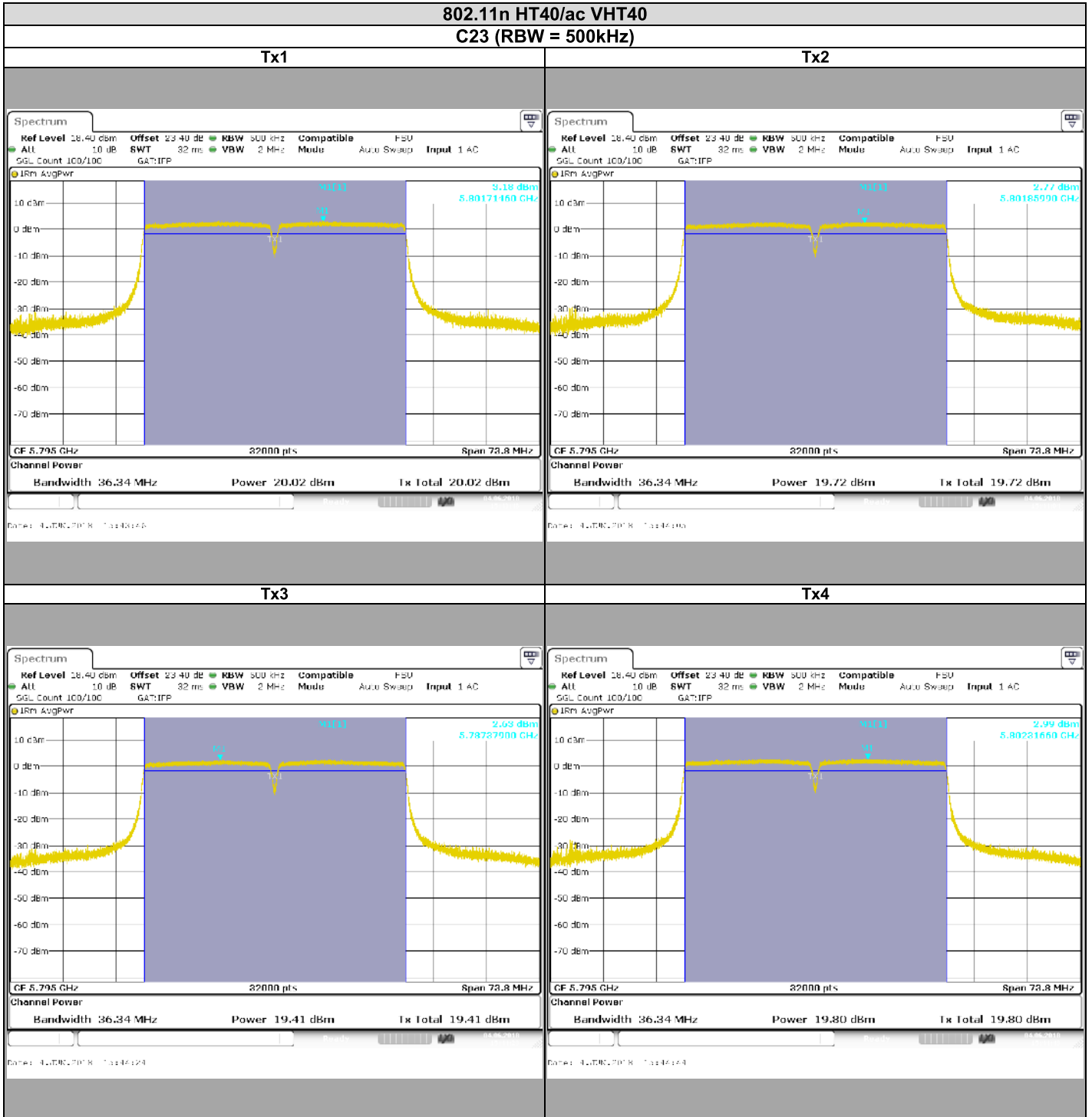


L C I E





L C I E





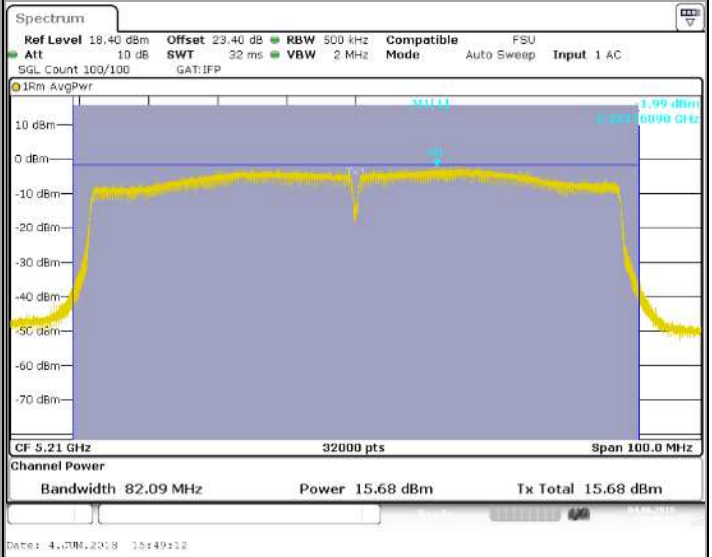
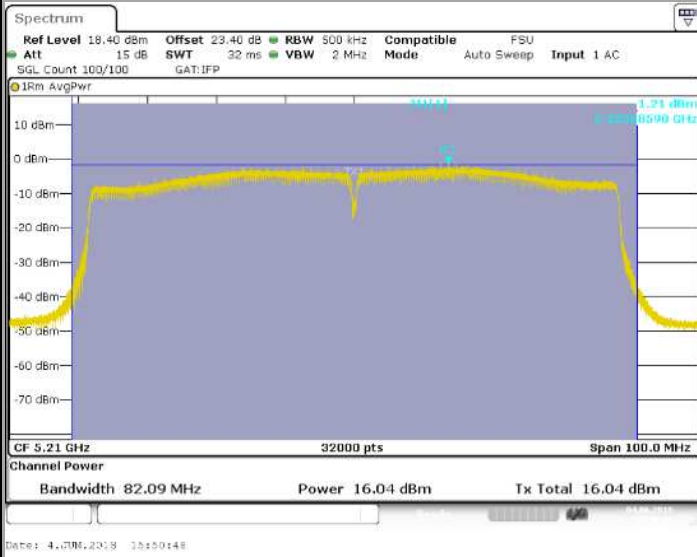
L C I E

### 802.11ac VHT80

#### C24

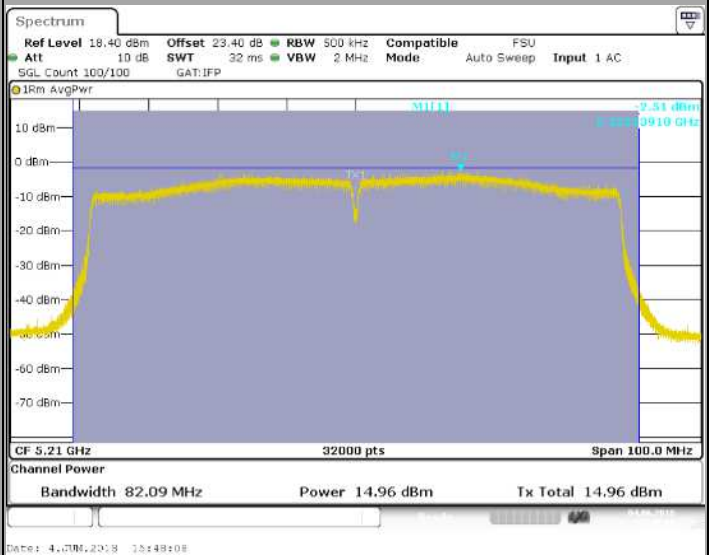
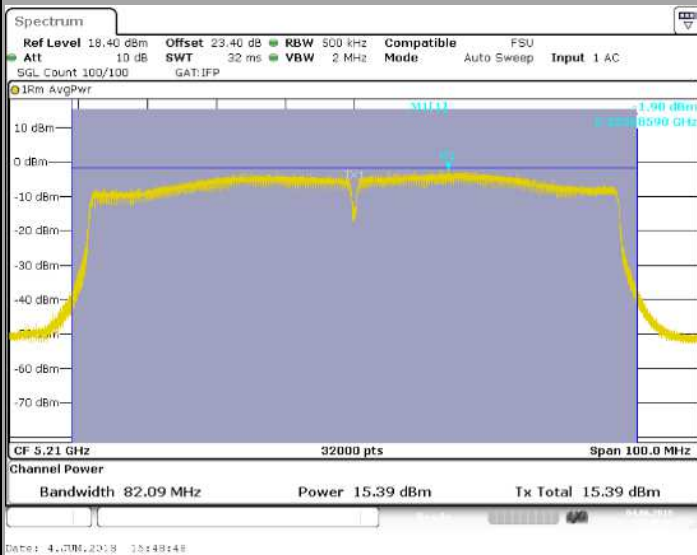
##### Tx1

##### Tx2



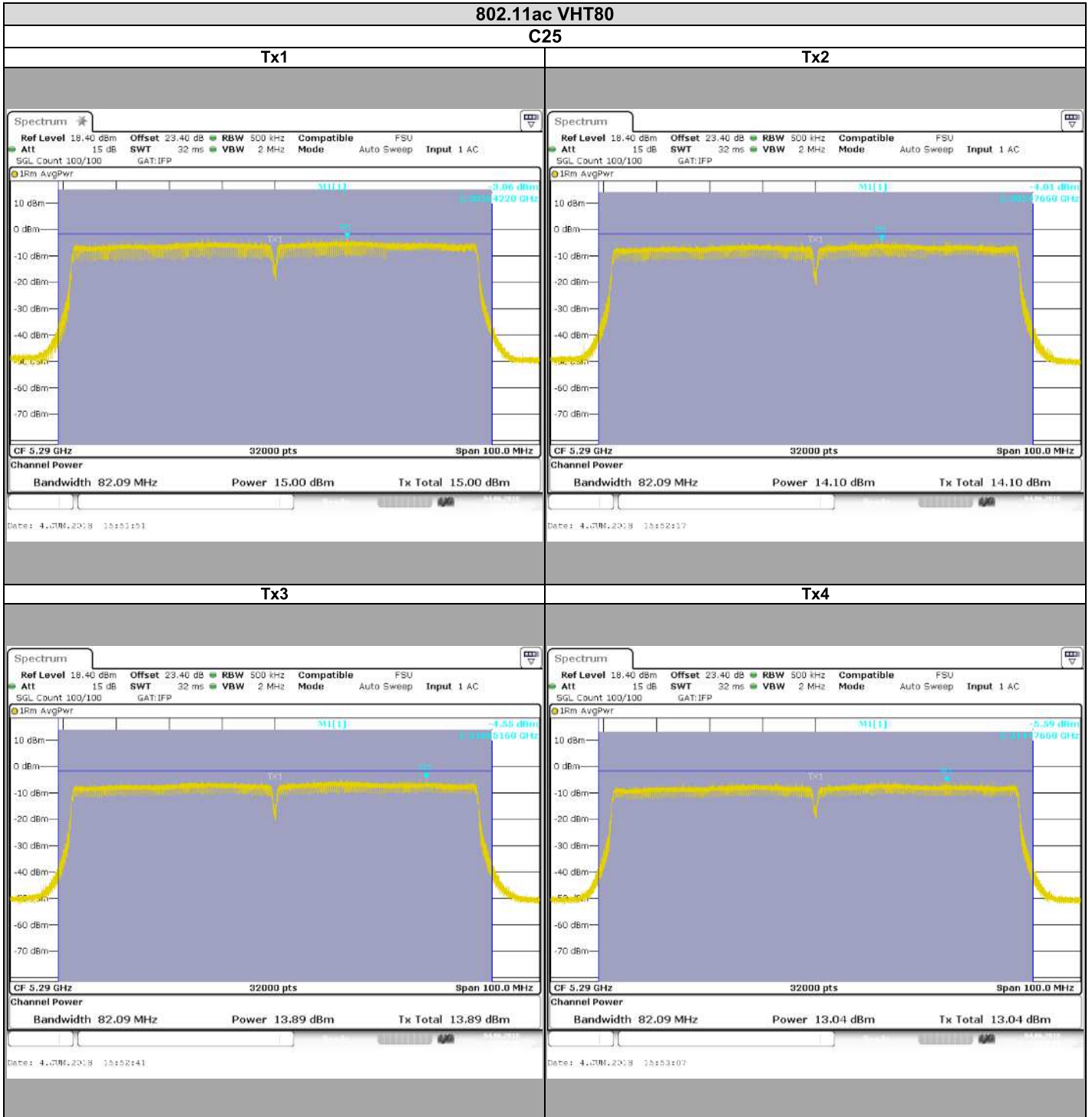
##### Tx3

##### Tx4



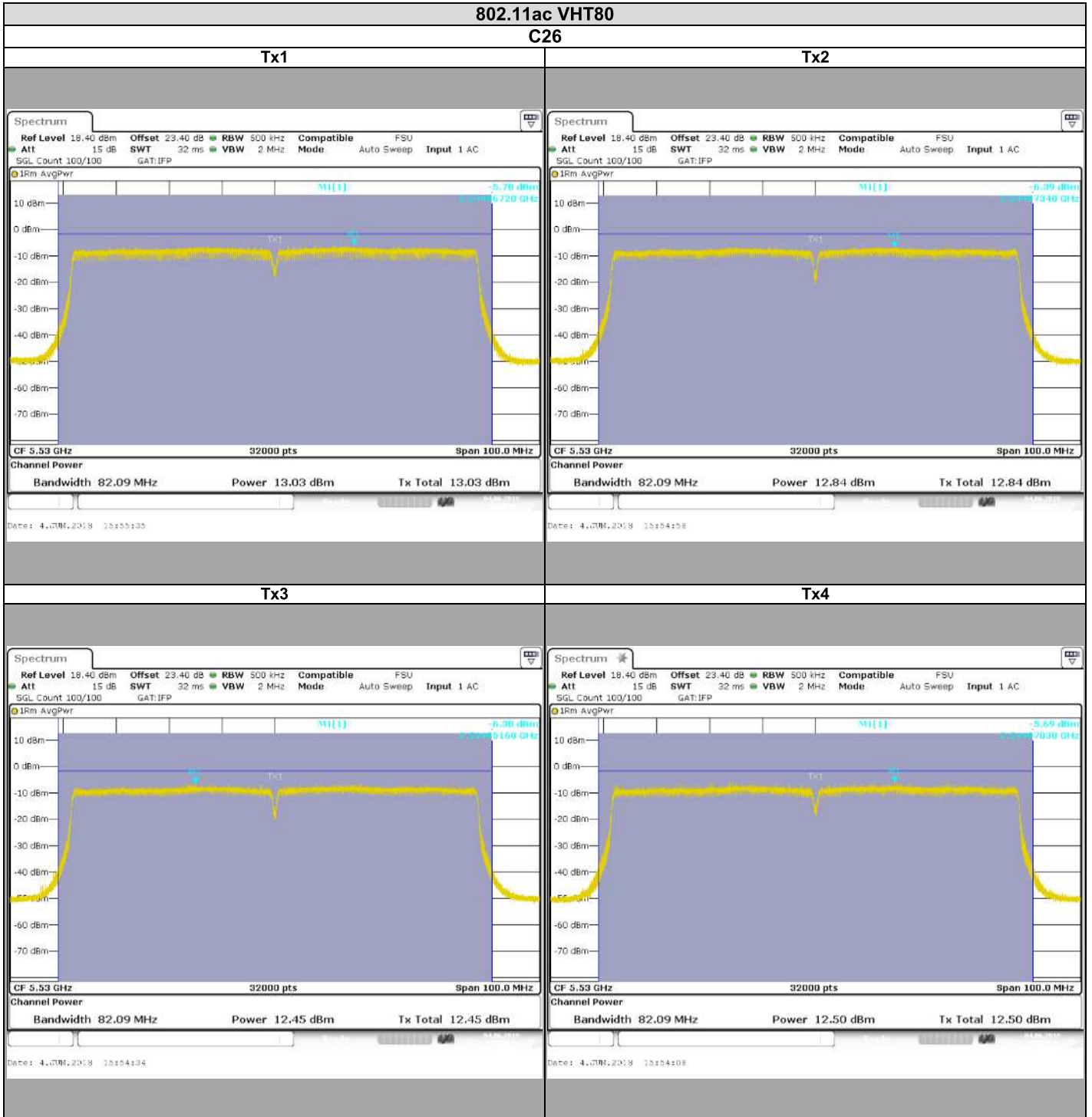


L C I E





L C I E







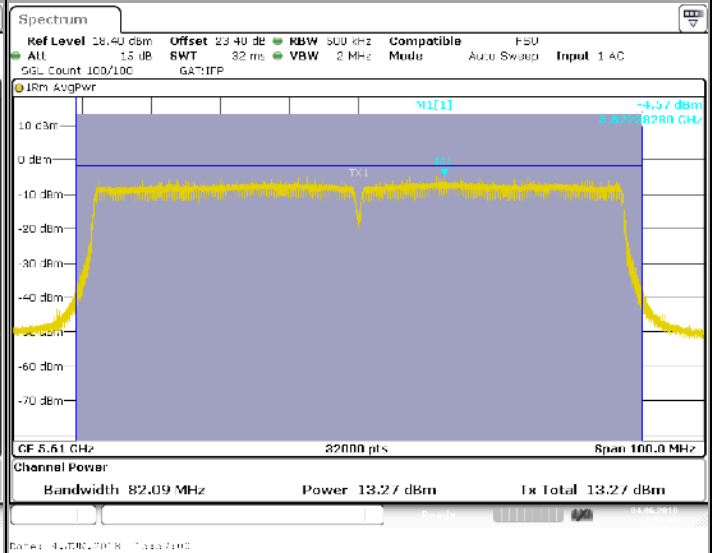
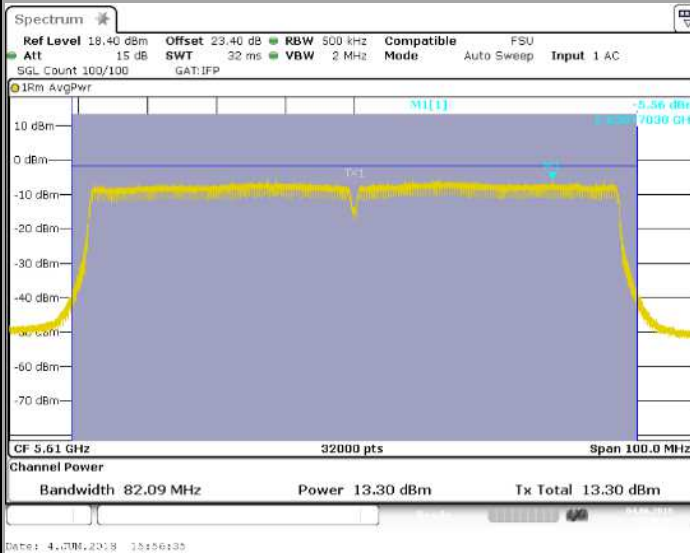
L C I E

### 802.11ac VHT80

C27

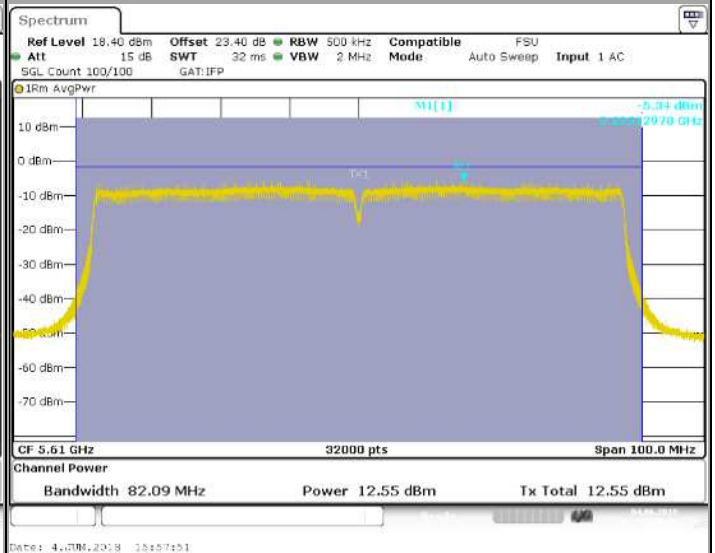
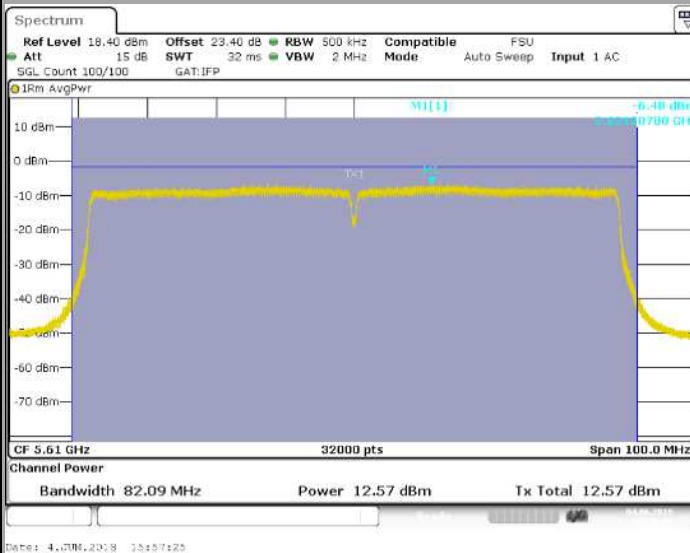
Tx1

Tx2



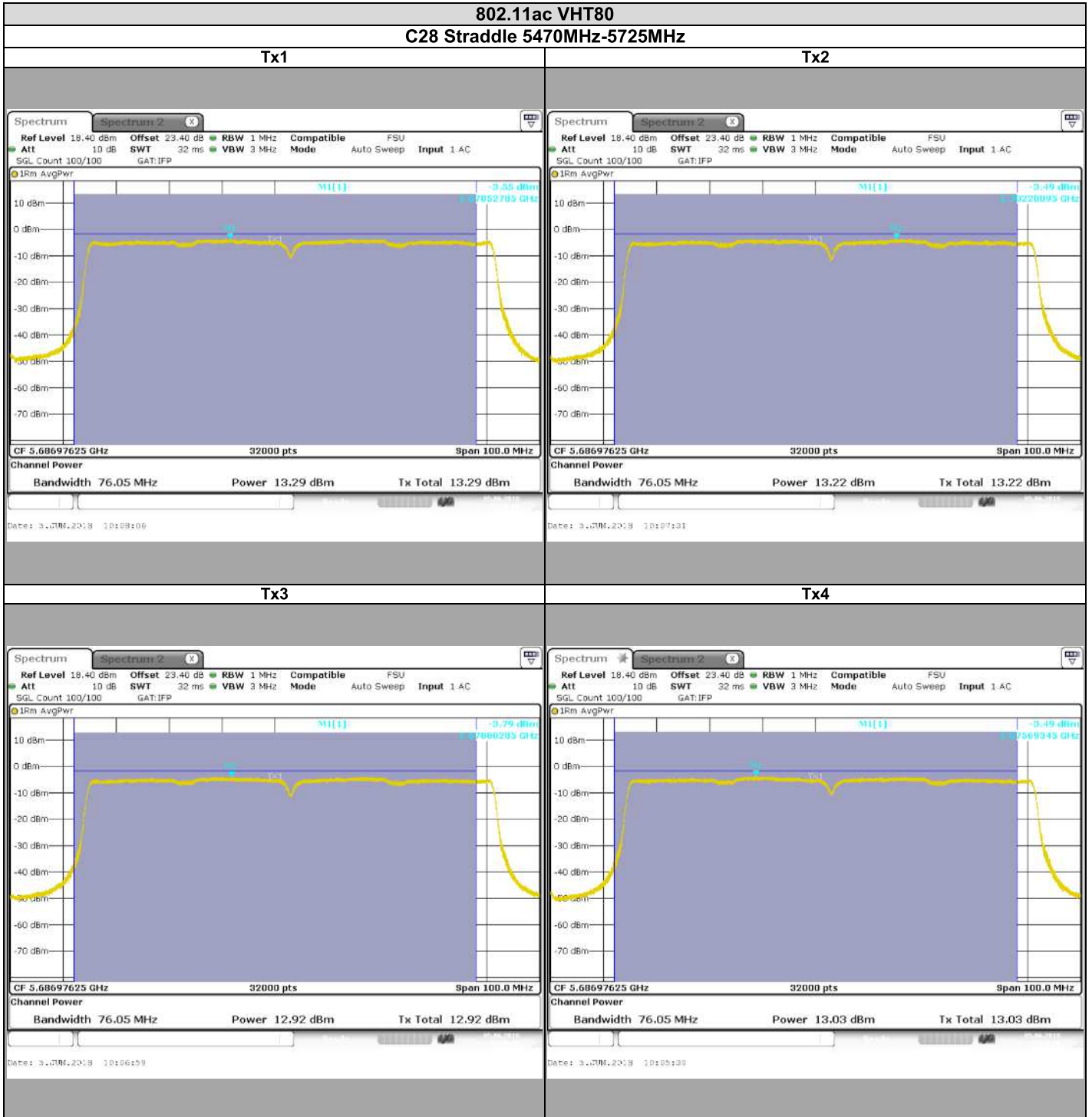
Tx3

Tx4



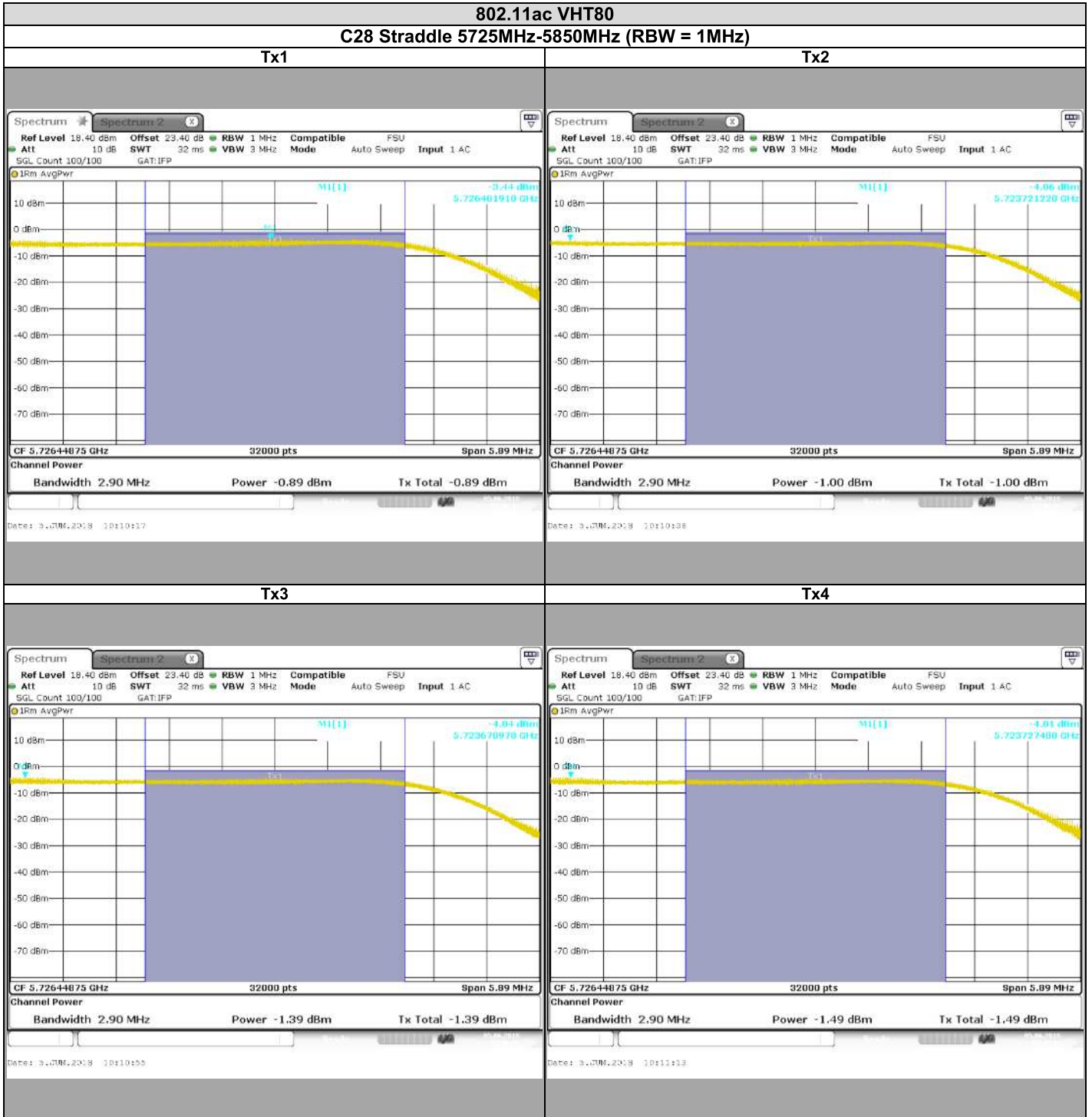


L C I E





L C I E





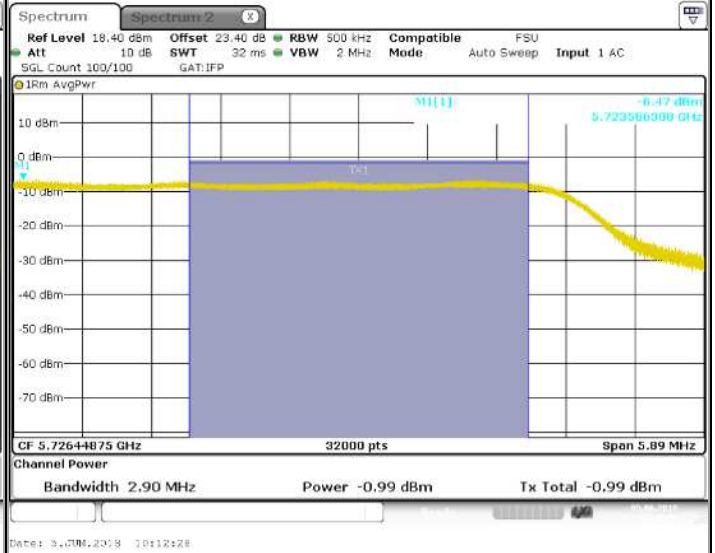
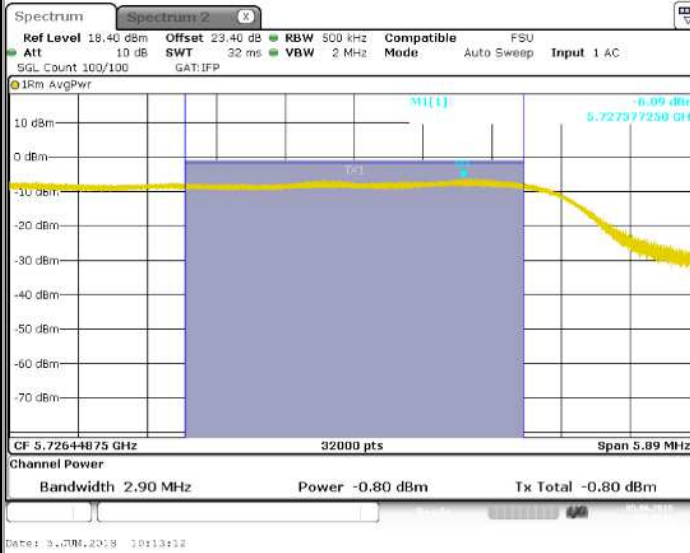
L C I E

802.11ac VHT80

C28 Straddle 5725MHz-5850MHz (RBW = 500kHz)

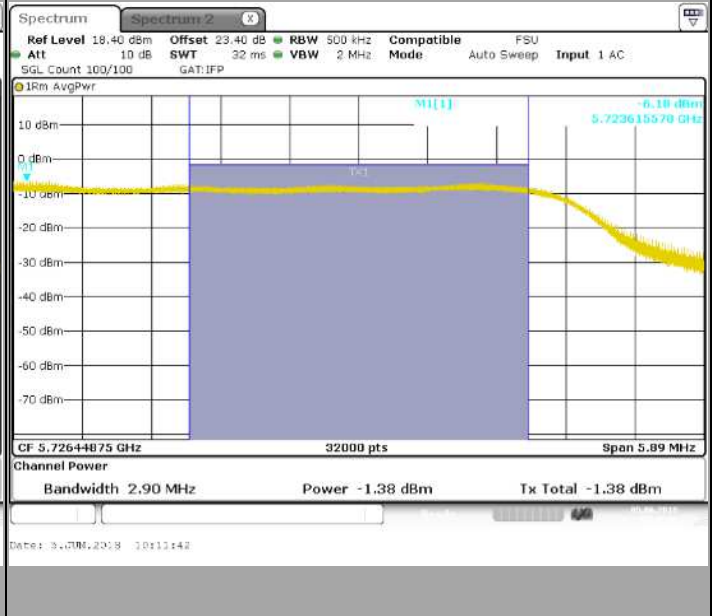
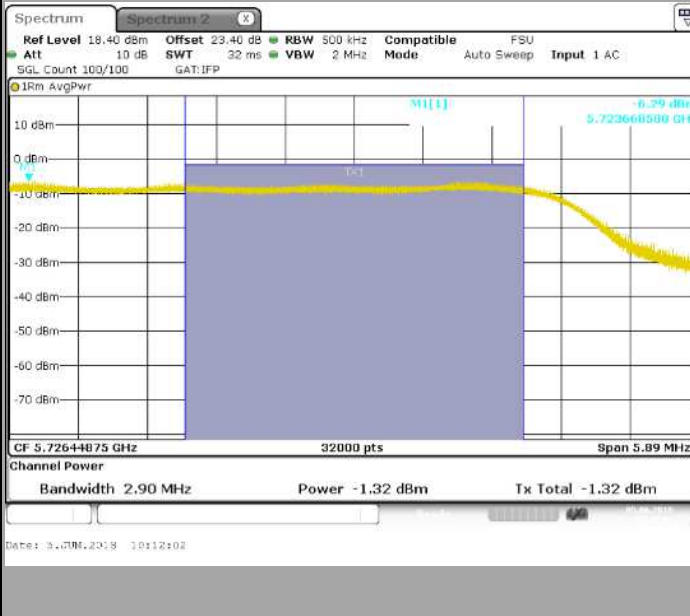
Tx1

Tx2



Tx3

Tx4



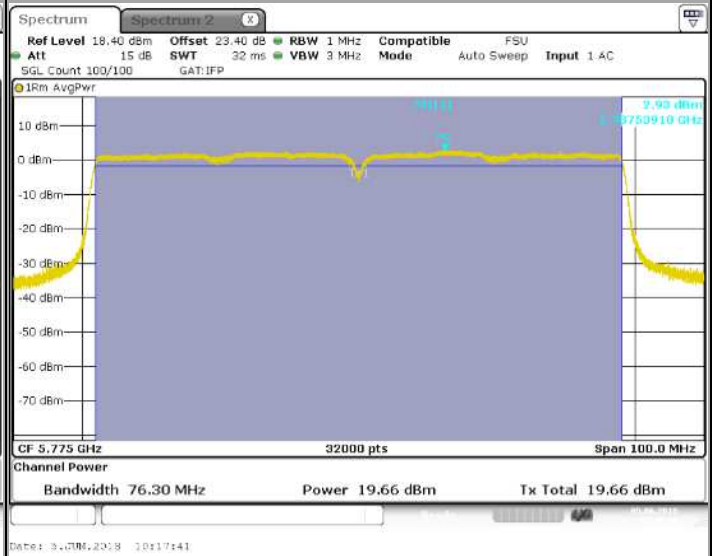
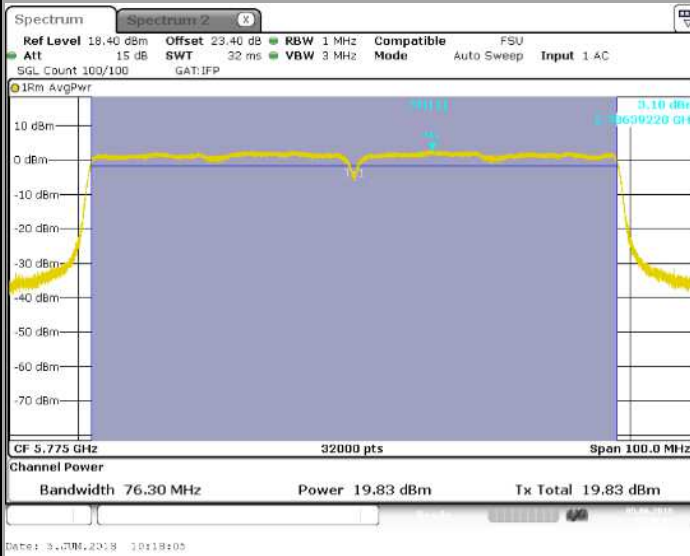


L C I E

802.11ac VHT80  
C29 (RBW = 1MHz)

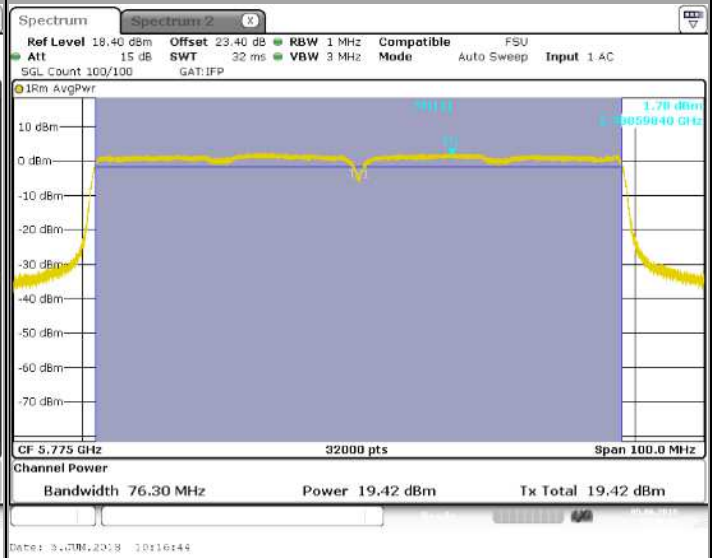
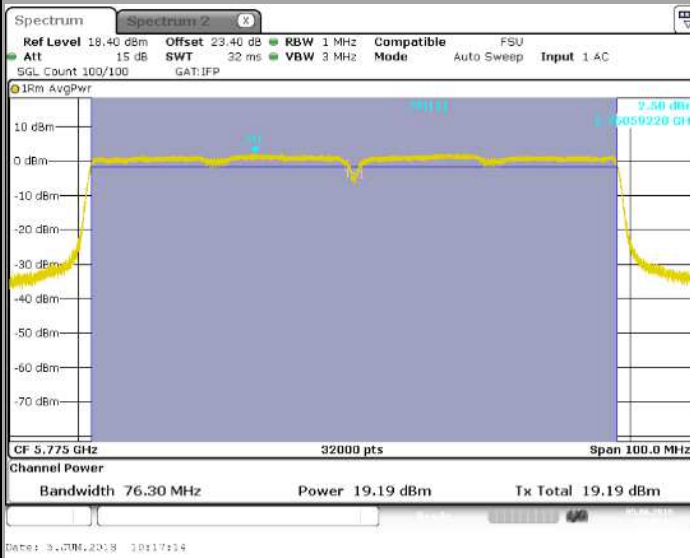
Tx1

Tx2



Tx3

Tx4





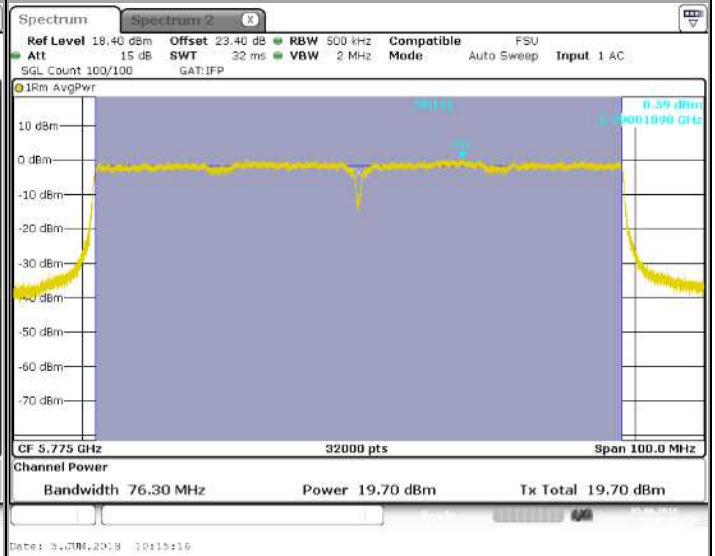
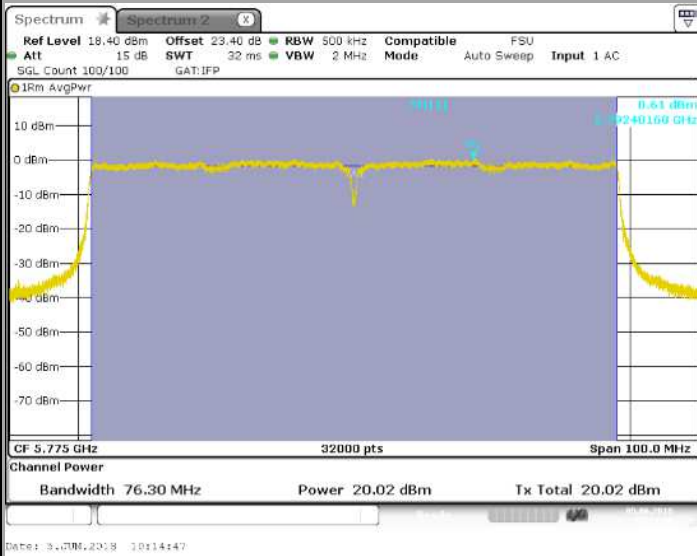
L C I E

### 802.11ac VHT80

C29 (RBW = 500kHz)

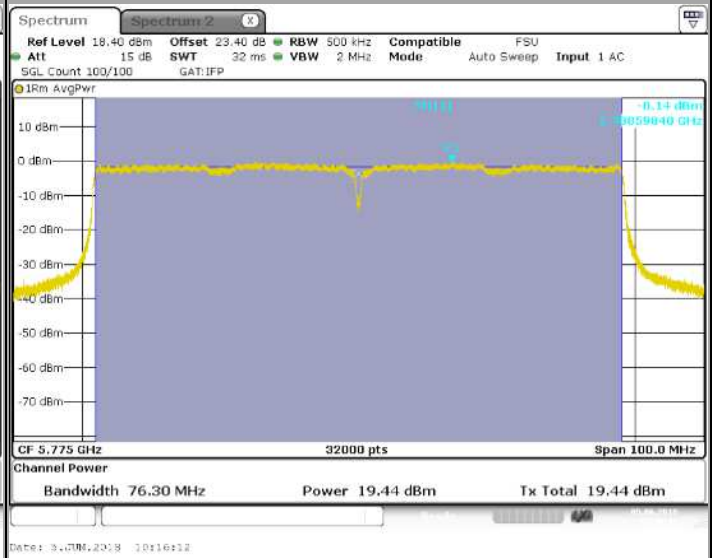
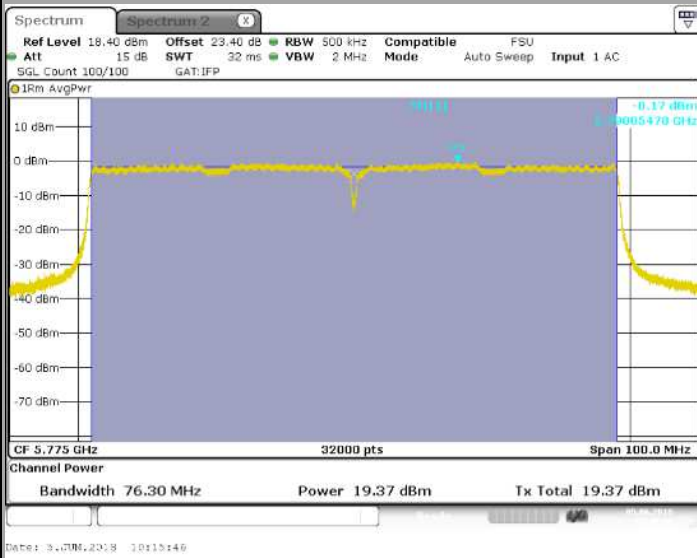
Tx1

Tx2



Tx3

Tx4





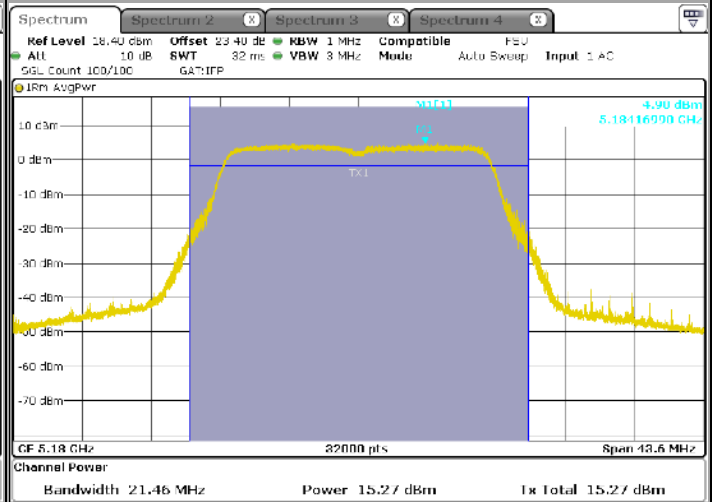
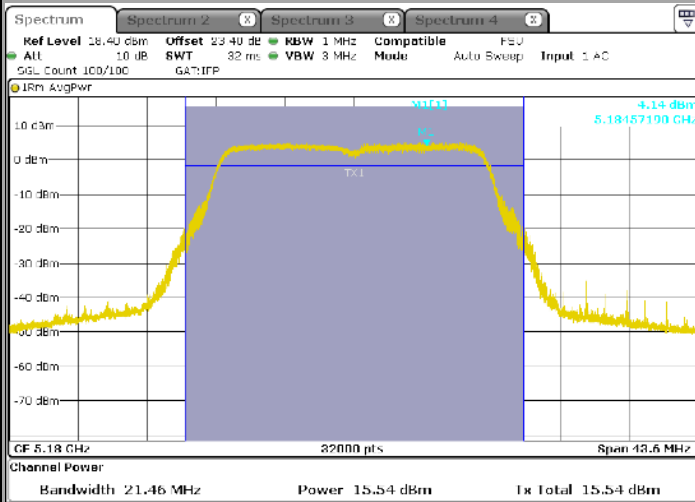
L C I E

### 802.11a Client

C1

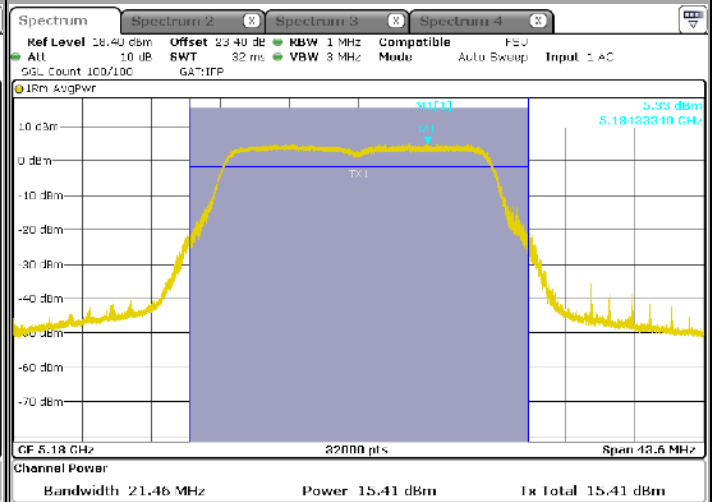
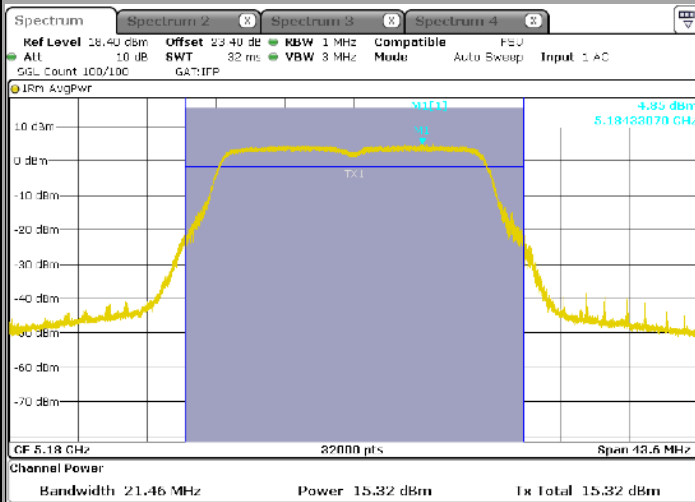
Tx1

Tx2



Tx3

Tx4



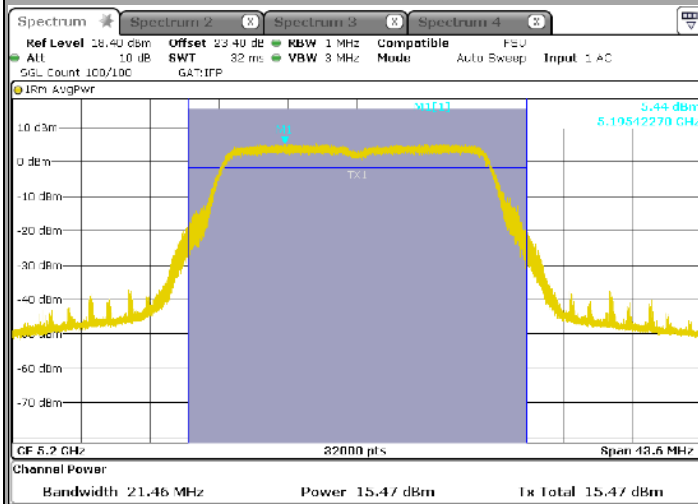


L C I E

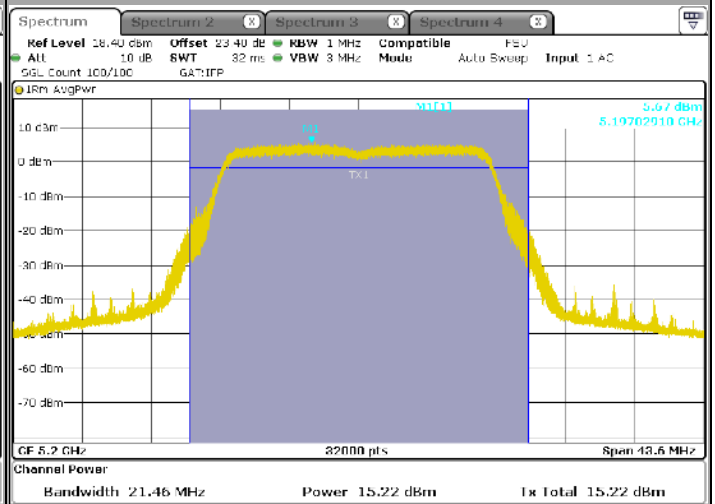
### 802.11a Client

#### C2

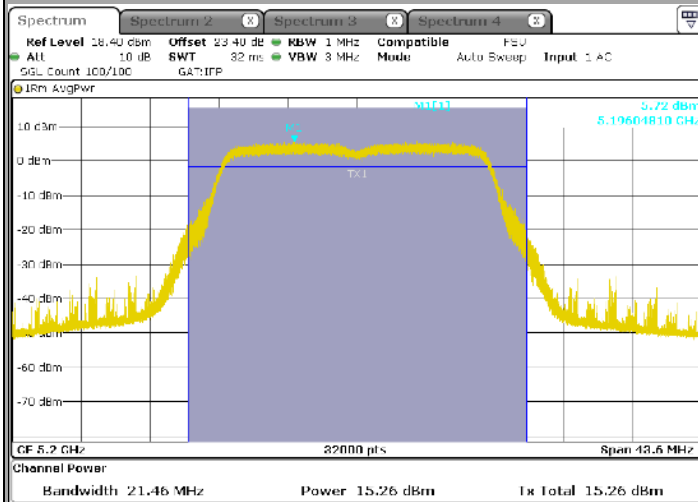
#### Tx1



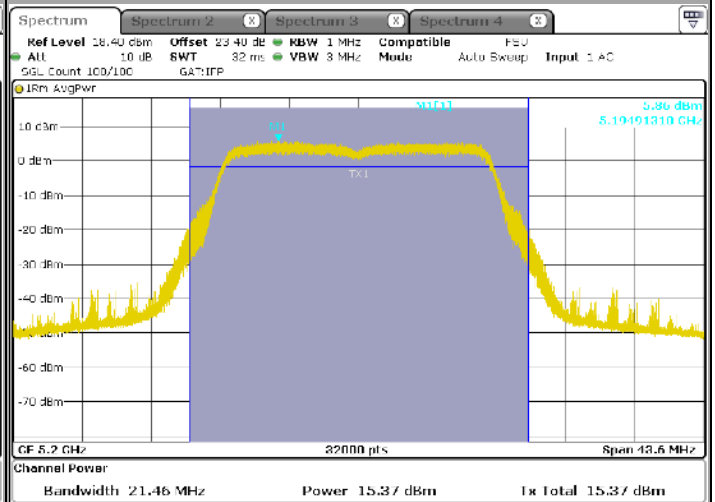
#### Tx2



#### Tx3



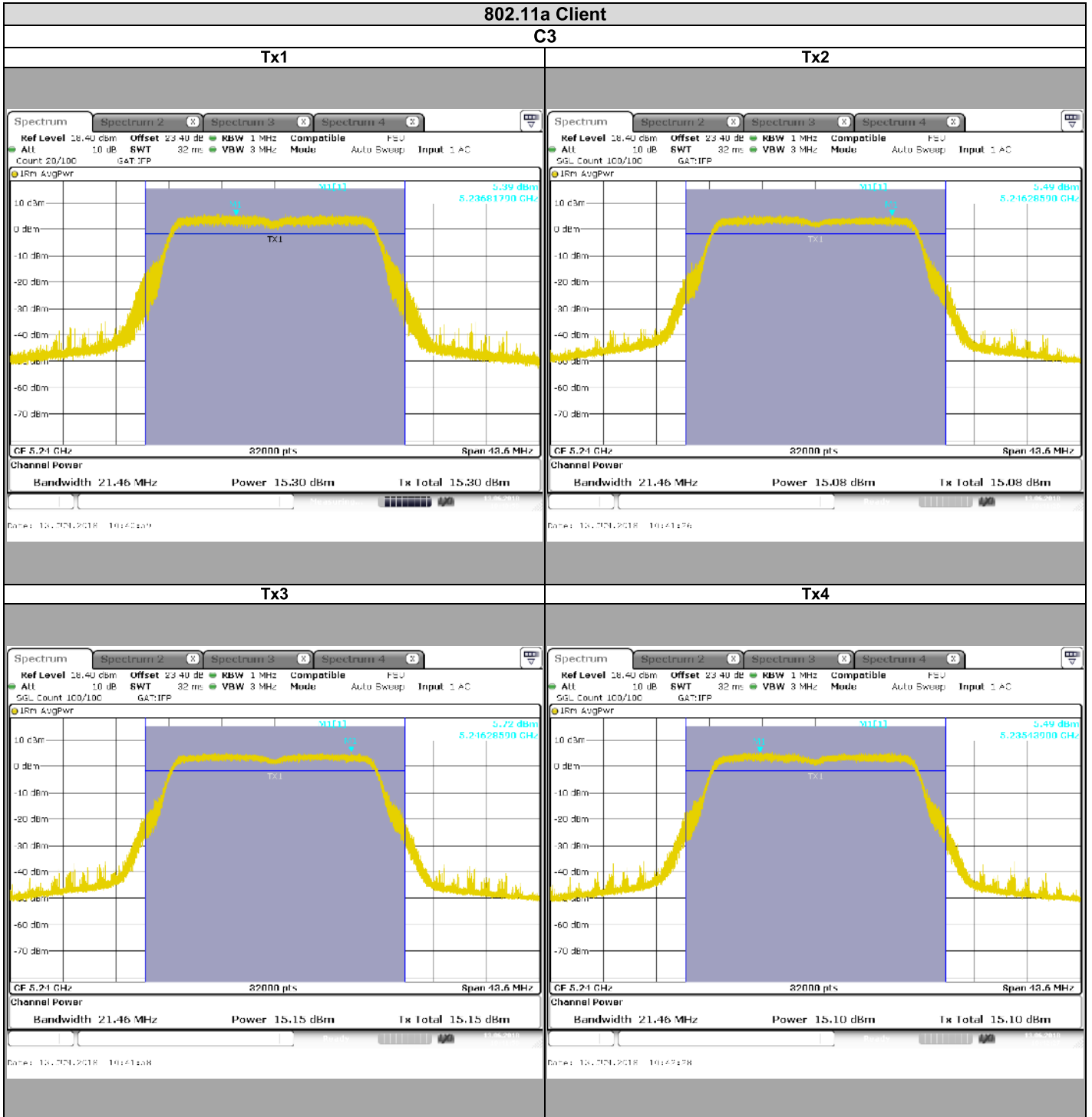
#### Tx4







L C I E



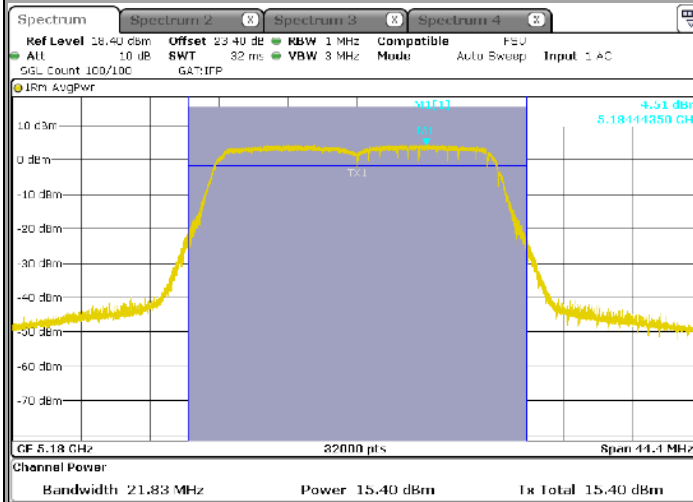


L C I E

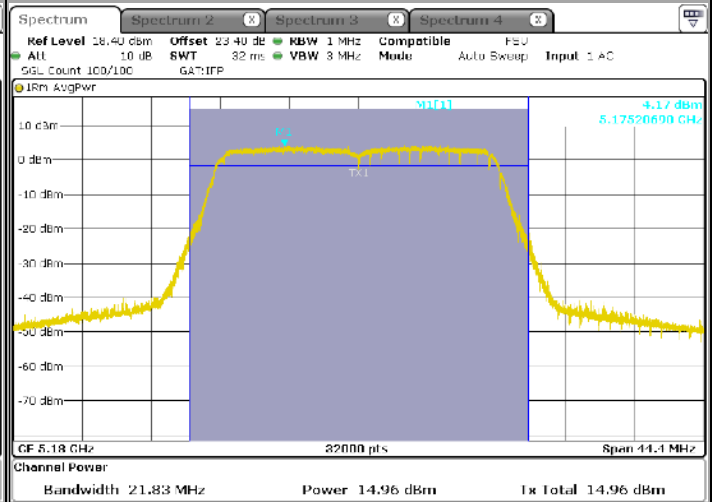
### 802.11n HT20/ac VHT20 Client

#### C1

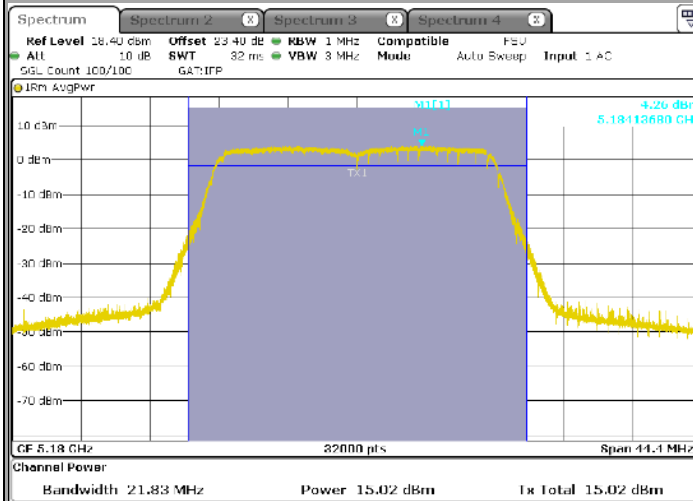
##### Tx1



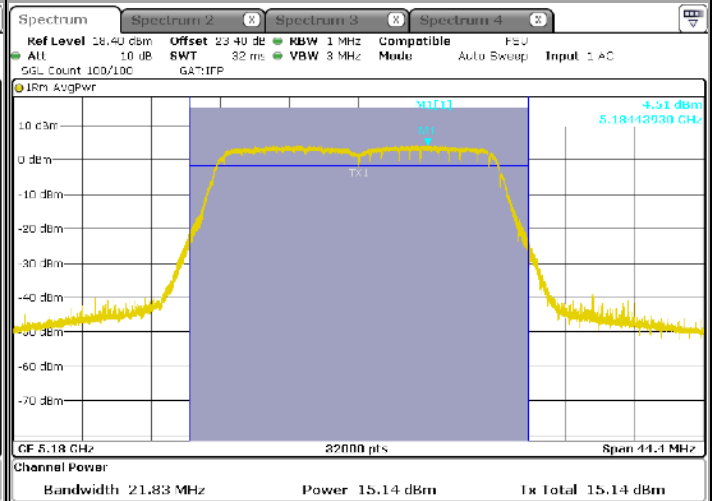
##### Tx2



##### Tx3



##### Tx4





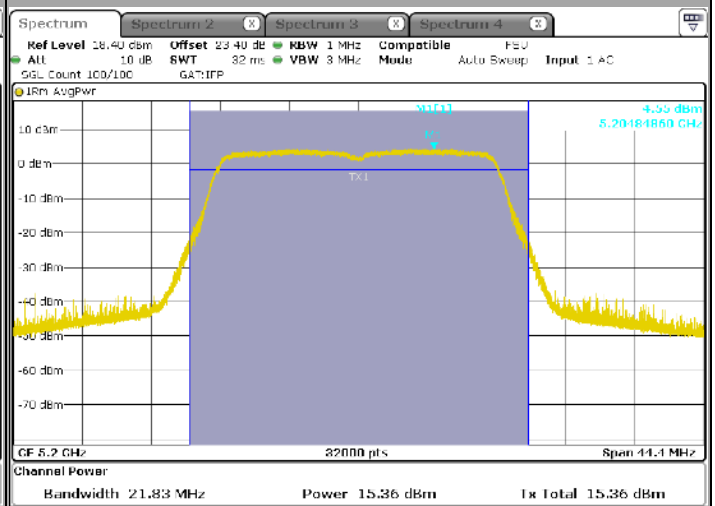
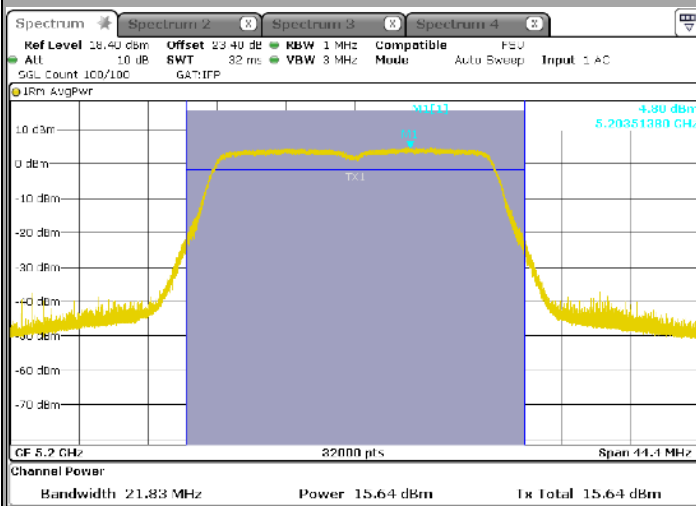
L C I E

### 802.11n HT20/ac VHT20 Client

C2

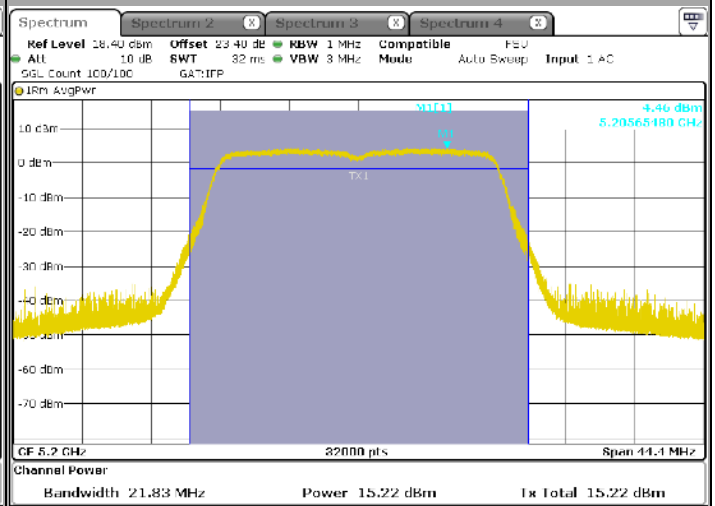
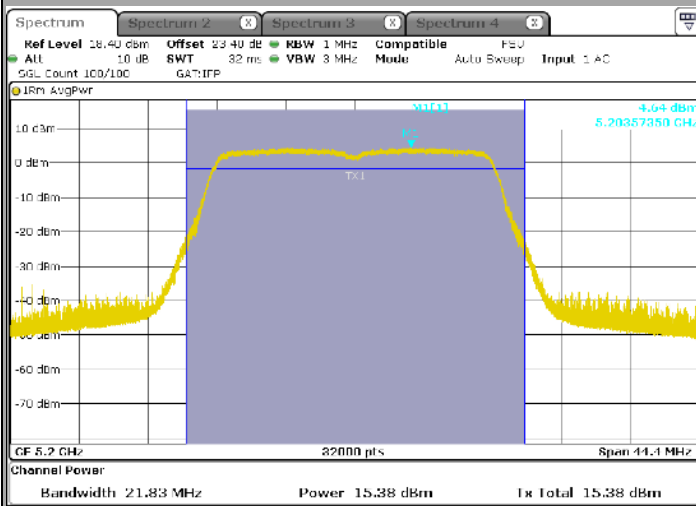
Tx1

Tx2



Tx3

Tx4





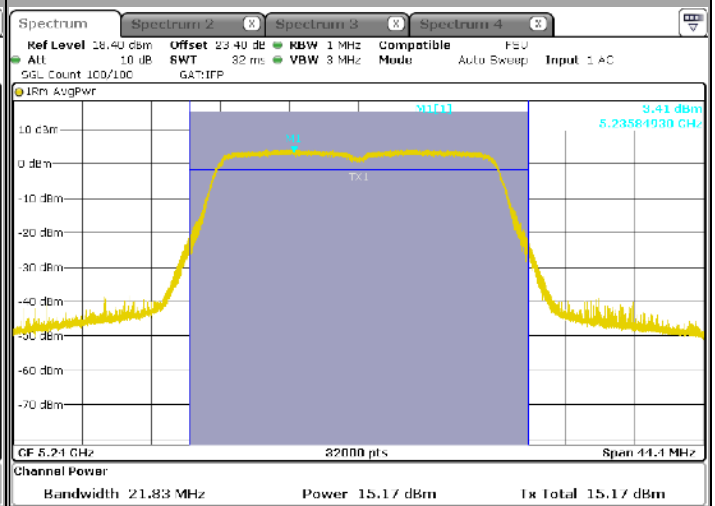
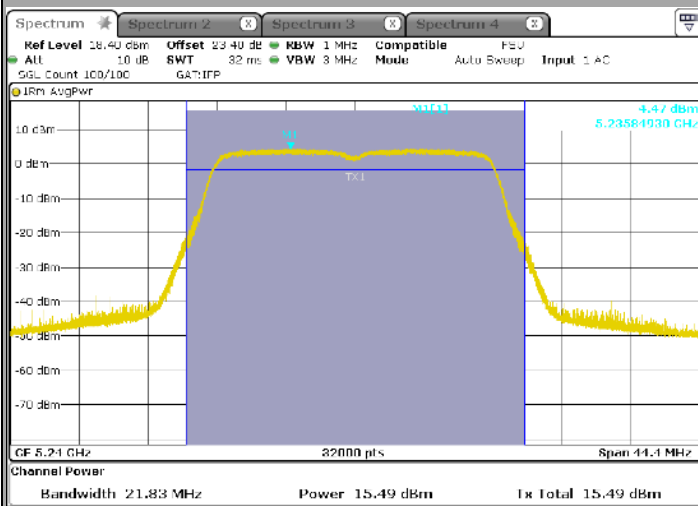
L C I E

### 802.11n HT20/ac VHT20 Client

C3

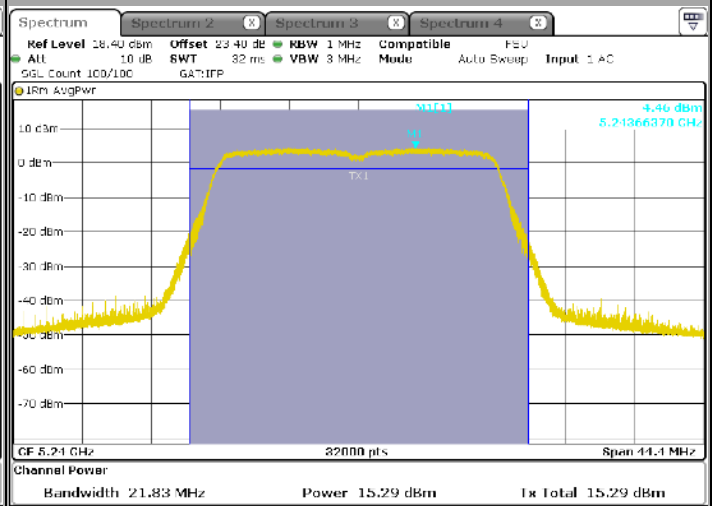
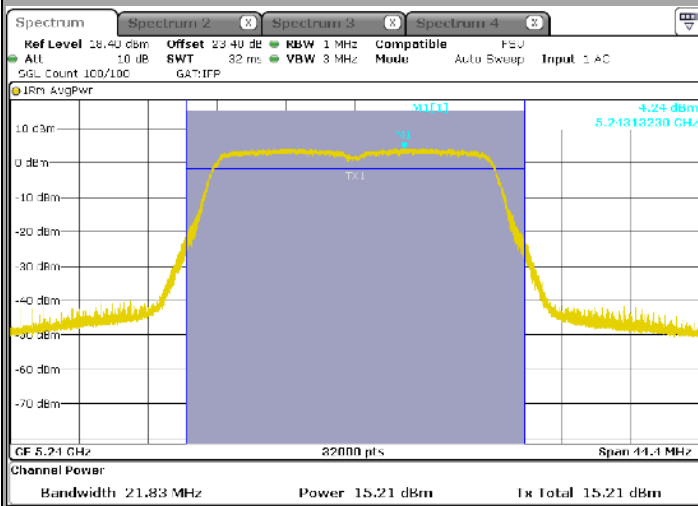
Tx1

Tx2



Tx3

Tx4





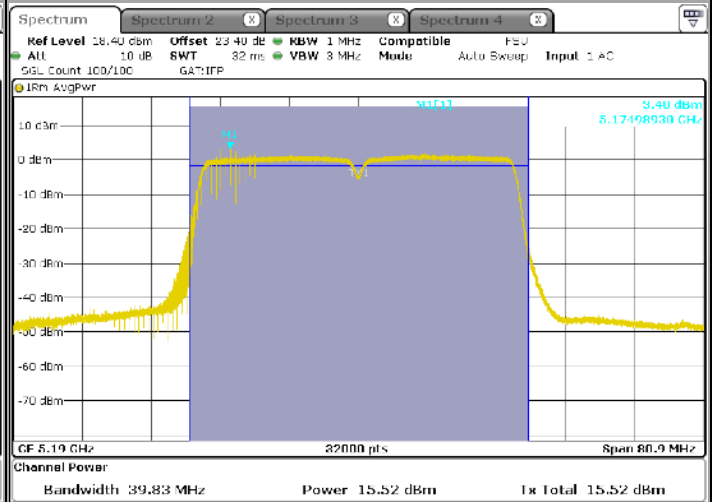
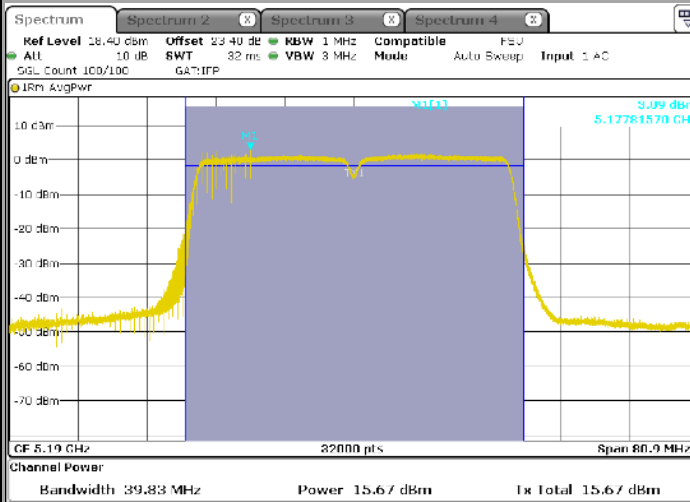
L C I E

### 802.11n HT40/ac VHT40 Client

C14

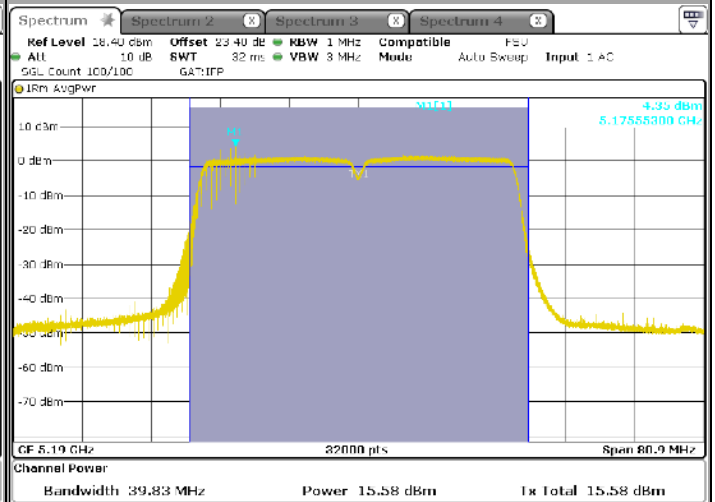
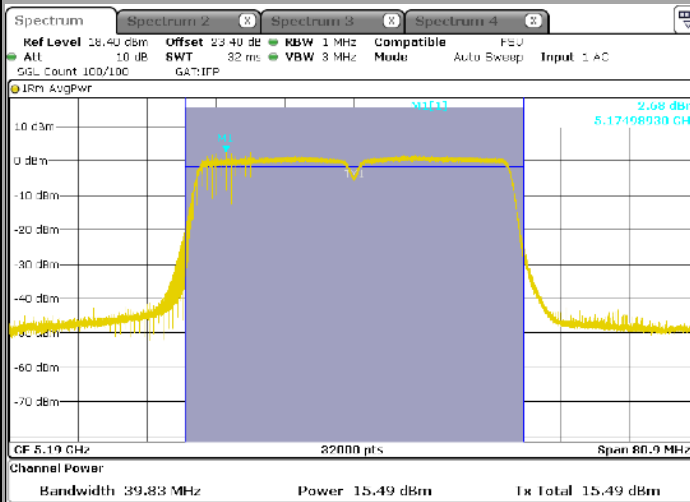
Tx1

Tx2



Tx3

Tx4





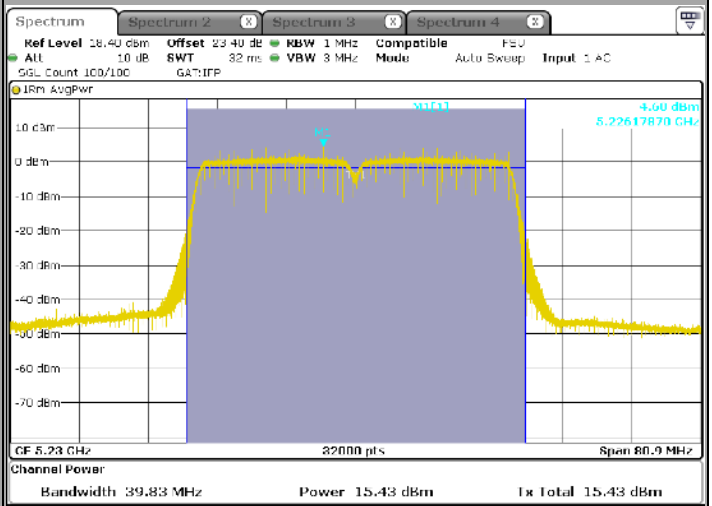
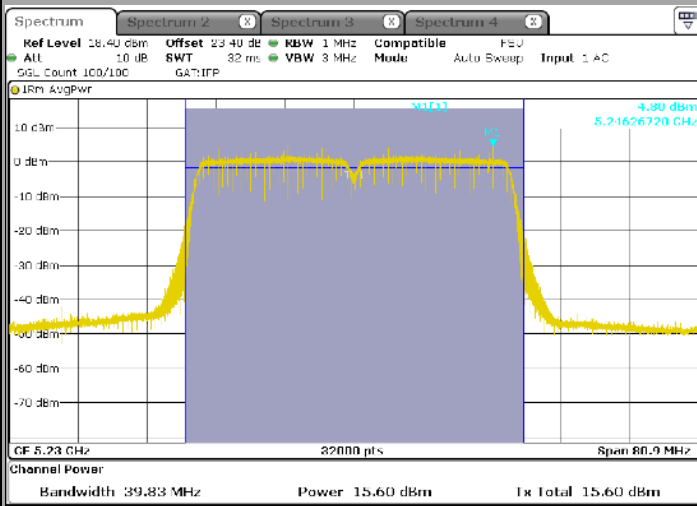
L C I E

### 802.11n HT40/ac VHT40 Client

C15

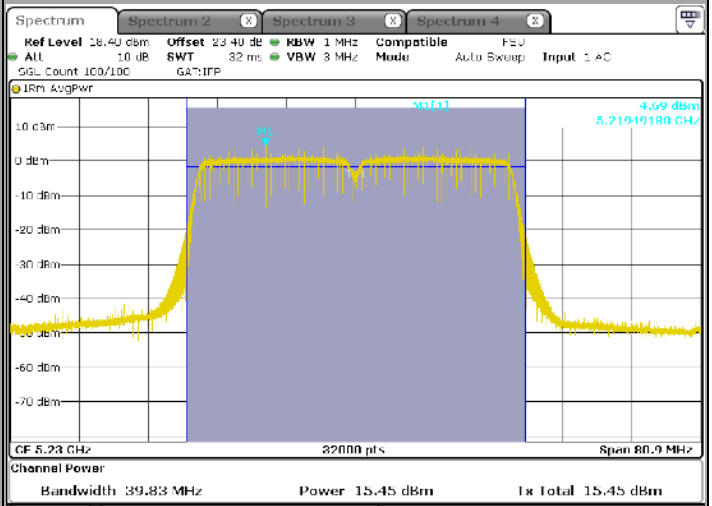
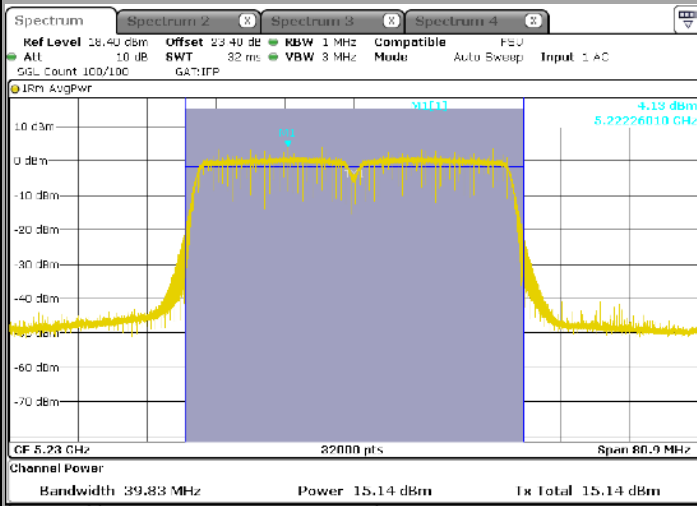
Tx1

Tx2



Tx3

Tx4





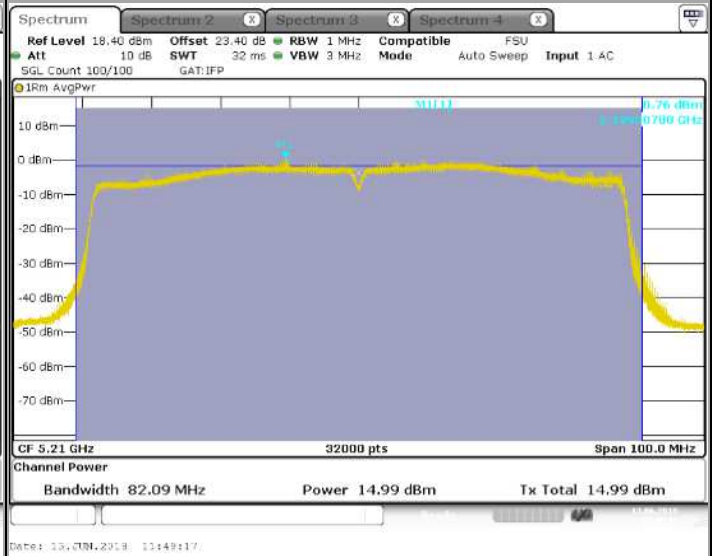
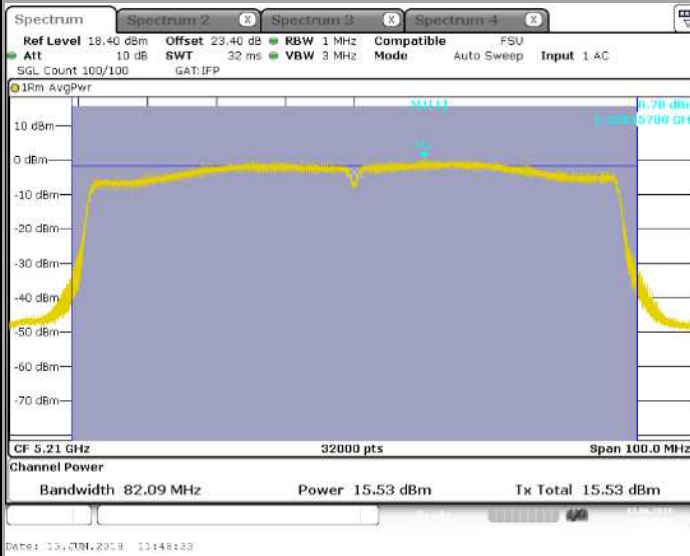
L C I E

### 802.11ac VHT80 Client

C24

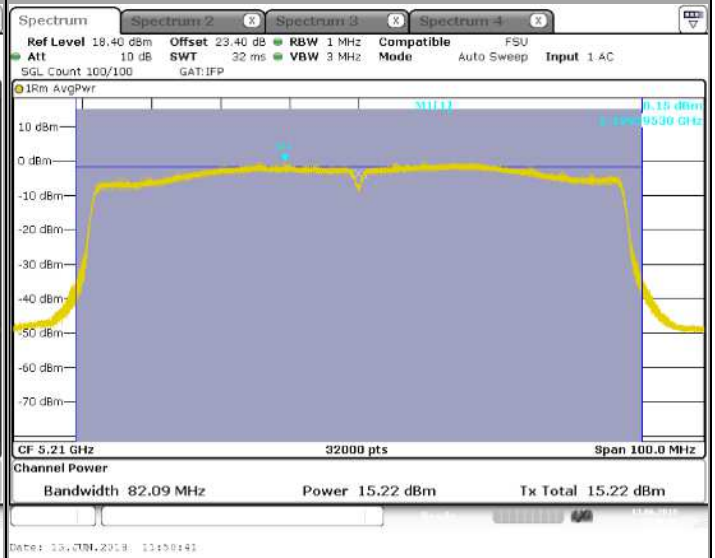
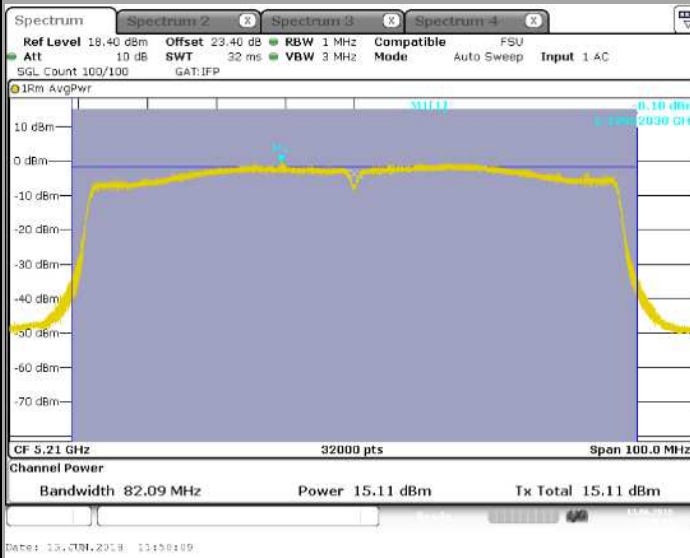
Tx1

Tx2



Tx3

Tx4





L C I E

Results for Master Maximum conducted power output :

802.11a

Channel	Tx1 (dBm)	Tx2 (dBm)	Tx3 (dBm)	Tx4 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx EIRP (dBm)	TPC requirement
C1	19,72	19,27	18,83	18,39	25,1	7,6	28,4 AP	32,7	
C2	20,25	19,78	19,6	19,28	25,8	7,6	28,4 AP	33,4	
C3	20,51	20,04	19,42	19,12	25,8	7,6	28,4 AP	33,4	
C4	14,29	14,06	13,73	13,22	19,9	7,6	22,4	27,5	TPC si EIRP>27dBm
C5	14,8	14,22	13,9	13,19	20,1	7,6	22,4	27,7	TPC si EIRP>27dBm
C6	14,45	14,1	13,77	13,05	19,9	7,6	22,4	27,5	TPC si EIRP>27dBm
C7	13,05	13,21	13,01	12,36	18,9	8,65	21,35	27,6	TPC si EIRP>27dBm
C8	12,9	12,8	12,75	12,11	18,7	8,65	21,35	27,3	TPC si EIRP>27dBm
C9	12,56	12,46	12,07	11,99	18,3	8,65	21,35	26,9	TPC si EIRP>27dBm
C10 Straddle 5470MHz-5725MHz	12,11	12,09	11,81	11,58	17,9	8,65	21,35	26,6	TPC si EIRP>27dBm
C10 Straddle 5725MHz-5850MHz	4,86	4,52	4,63	5,12	10,8	8,65	27,35	19,5	TPC si EIRP>27dBm
C11	19,81	19,71	19,07	19,35	25,5	8,65	27,35		
C12	19,81	19,61	19,09	19,52	25,5	8,65	27,35		
C13	19,88	19,64	19,4	19,8	25,7	8,65	27,35		

802.11n HT20/ac VHT20

Channel	Tx1 (dBm)	Tx2 (dBm)	Tx3 (dBm)	Tx4 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx EIRP (dBm)	EIRP Limit FCC (dBm)
C1	19,74	19,02	18,42	17,93	24,9	7,6	28,4 AP	32,5	
C2	20,82	20,25	19,78	19,74	26,2	7,6	28,4 AP	33,8	
C3	20,7	20,28	19,83	19,57	26,1	7,6	28,4 AP	33,7	
C4	14,48	14,3	13,8	13,32	20,0	7,6	22,4	27,6	TPC si EIRP>27dBm
C5	14,64	14,4	14,03	13,13	20,1	7,6	22,4	27,7	TPC si EIRP>27dBm
C6	14,51	14,16	13,87	13,31	20,0	7,6	22,4	27,6	TPC si EIRP>27dBm
C7	13,31	13,49	13,02	12,67	19,2	8,65	21,35	27,8	TPC si EIRP>27dBm
C8	13,44	13,26	13,09	12,59	19,1	8,65	21,35	27,8	TPC si EIRP>27dBm
C9	13,18	13,13	13,04	12,89	19,1	8,65	21,35	27,7	TPC si EIRP>27dBm
C10 Straddle 5470MHz-5725MHz	12,33	11,95	11,63	11,61	17,9	8,65	21,35	26,6	TPC si EIRP>27dBm
C10 Straddle 5725MHz-5850MHz	6,18	5,96	5,75	5,65	11,9	8,65	27,35	20,6	TPC si EIRP>27dBm
C11	19,9	19,36	19,02	19,27	25,4	8,65	27,35		
C12	19,99	19,41	19,05	19,68	25,6	8,65	27,35		
C13	19,76	19,39	19,04	19,77	25,5	8,65	27,35		





L C I E

802.11n HT40/ac VHT40

Channel	Tx1 (dBm)	Tx2 (dBm)	Tx3 (dBm)	Tx4 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx EIRP (dBm)	EIRP Limit FCC (dBm)
C14	16,72	16,15	15,56	15,22	22,0	7,6	28,4 AP	29,6	
C15	21,08	20,28	19,9	19,56	26,3	7,6	28,4 AP	33,9	
C16	14,96	14,57	14,1	13,44	20,3	7,6	22,4	27,9	TPC si EIRP>27dBm
C17	15,58	15	14,43	13,69	20,8	7,6	22,4	28,4	TPC si EIRP>27dBm
C18	13,73	13,61	13,26	13,16	19,5	8,65	21,35	28,1	TPC si EIRP>27dBm
C19	13,65	13,54	13,17	12,76	19,3	8,65	21,35	28,0	TPC si EIRP>27dBm
C20	13,47	13,47	13,56	13,43	19,5	8,65	21,35	28,2	TPC si EIRP>27dBm
C21 Straddle 5470MHz-5725MHz	13,09	13,07	12,59	12,9	18,9	8,65	21,35	27,6	TPC si EIRP>27dBm
C21 Straddle 5725MHz-5850MHz	2,59	2,73	2,1	2,35	8,5	8,65	27,35	17,1	TPC si EIRP>27dBm
C22	19,79	19,7	19,15	19,61	25,6	8,65	27,35		
C23	20,03	19,73	19,43	19,87	25,8	8,65	27,35		

802.11ac VHT80

Channel	Tx1 (dBm)	Tx2 (dBm)	Tx3 (dBm)	Tx4 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)	Tx EIRP (dBm)	EIRP Limit FCC (dBm)
C24	16,04	15,68	15,39	14,96	21,6	7,6	28,4 AP	29,2	
C25	15	14,1	13,89	13,04	20,1	7,6	22,4	27,7	TPC si EIRP>27dBm
C26	13,03	12,84	12,45	12,5	18,7	8,65	21,35	27,4	TPC si EIRP>27dBm
C27	13,3	13,27	12,57	12,55	19,0	8,65	21,35	27,6	TPC si EIRP>27dBm
C28 Straddle 5470MHz-5725MHz	13,29	13,22	12,92	13,03	19,1	8,65	21,35	27,8	TPC si EIRP>27dBm
C28 Straddle 5725MHz-5850MHz	-0,89	-1	-1,39	-1,49	4,8	8,65	27,35	13,5	
C29	19,83	19,66	19,19	19,42	25,6	8,65	27,35	34,2	



Results for Master Power spectral density :

802.11a							
Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	Tx3 (dBm/MHz)	Tx4 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)
C1	8,95	8,82	8,08	7,89	14,5	7,6	15,4 AP
C2	9,54	9,14	8,78	8,54	15,0	7,6	15,4 AP
C3	9,67	9,55	8,63	8,62	15,2	7,6	15,4 AP
C4	3,49	3,7	2,93	3,08	9,3	7,6	9,4
C5	3,93	3,66	3,09	2,68	9,39	7,6	9,4
C6	3,62	3,69	3,04	2,51	9,3	7,6	9,4
C7	2,24	2,47	2,56	1,68	8,27	8,65	8,35
C8	2,55	2,15	2,47	1,53	8,2	8,65	8,35
C9	2,5	2,08	1,67	1,57	8,0	8,65	8,35
C10 Straddle 5470MHz-5725MHz	2,35	2,37	2	1,92	8,2	8,65	8,35
C10 Straddle 5725MHz-5850MHz	-0,28	-0,56	-1,6	-0,94	5,2	8,65	27,35 (/500kHz)
C11	7,09	6,31	6,27	5,9	12,4	8,65	27,35 (/500kHz)
C12	7,1	6,82	6,1	6,65	12,7	8,65	27,35 (/500kHz)
C13	7,15	7,21	6,31	7,07	13,0	8,65	27,35 (/500kHz)

802.11n HT20/ac VHT20							
Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	Tx3 (dBm/MHz)	Tx4 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)
C1	8,84	8,08	7,45	7,04	13,9	7,6	15,4 AP
C2	9,81	9,29	8,75	8,93	15,2	7,6	15,4 AP
C3	9,72	9,28	8,8	8,55	15,1	7,6	15,4 AP
C4	3,49	3,42	2,95	2,32	9,1	7,6	9,4
C5	3,66	3,45	3,02	2,16	9,1	7,6	9,4
C6	3,45	3,2	2,98	2,23	9,0	7,6	9,4
C7	2,42	2,47	2,3	1,84	8,29	8,65	8,35
C8	2,59	2,36	2,15	1,53	8,2	8,65	8,35
C9	2,21	2,12	2,07	1,99	8,1	8,65	8,35
C10 Straddle 5470MHz-5725MHz	2,43	2,03	1,79	1,68	8,0	8,65	8,35
C10 Straddle 5725MHz-5850MHz	-0,49	-0,69	-1	-1,02	5,2	8,65	27,35 (/500kHz)
C11	6,31	5,29	5,43	5,78	11,7	8,65	27,35 (/500kHz)
C12	6,26	5,62	5,41	5,82	11,8	8,65	27,35 (/500kHz)
C13	6,03	5,58	5,45	6,33	11,9	8,65	27,35 (/500kHz)

802.11n HT40/ac VHT40							
Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	Tx3 (dBm/MHz)	Tx4 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)
C14	6,16	2,34	2,3	1,36	9,5	7,6	15,4 AP
C15	7,48	6,81	6,08	6,23	12,7	7,6	15,4 AP
C16	2,73	1,93	1,32	1,17	7,9	7,6	9,4
C17	2,77	2,18	1,55	2,01	8,2	7,6	9,4
C18	2,05	1,43	0,96	0,59	7,3	8,65	8,35
C19	1,95	1,71	0,68	0,9	7,4	8,65	8,35
C20	0,85	1,83	2,53	1,46	7,7	8,65	8,35
C21 Straddle 5470MHz-5725MHz	1,27	2,06	0,36	0,34	7,1	8,65	8,35
C21 Straddle 5725MHz-5850MHz	-2,96	-2,18	-3,32	-3,33	3,1	8,65	27,35 (/500kHz)
C22	3	2,9	2,44	2,96	8,9	8,65	27,35 (/500kHz)
C23	3,18	2,77	2,63	2,99	8,9	8,65	27,35 (/500kHz)



L C I E

802.11ac VHT80

Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	Tx3 (dBm/MHz)	Tx4 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)
C24	-1,21	-1,99	-1,9	-2,51	4,1	7,6	15,4 AP
C25	-3,06	-4,01	-4,55	-5,59	1,8	7,6	9,4
C26	-5,7	-6,39	-6,3	-5,69	0,0	8,65	8,35
C27	-5,56	-4,57	-6,48	-5,34	0,6	8,65	8,35
C28 Straddle 5470MHz-5725MHz	-3,55	-3,49	-3,79	-3,49	2,4	8,65	8,35
C28 Straddle 5725MHz-5850MHz	-6,09	-6,47	-6,29	-6,18	-0,2	8,65	27,35 (/500kHz)
C29	0,61	0,59	-0,17	-0,14	6,3	8,65	27,35 (/500kHz)



Results for Slave Maximum conducted output power :

802.11a							
Channel	Tx1 (dBm)	Tx2 (dBm)	Tx3 (dBm)	Tx4 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)
C1	12,46	12,77	12,5	13,39	18,8	7,6	21,4
C2	13,05	12,91	12,24	12,52	18,7	7,6	21,4
C3	11,78	12,9	12,72	12,59	18,5	7,6	21,4

802.11n HT20/ac VHT20							
Channel	Tx1 (dBm)	Tx2 (dBm)	Tx3 (dBm)	Tx4 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)
C1	13,26	13,52	12,68	13,12	19,18	7,6	21,4
C2	13,04	12,37	12,87	12,75	18,8	7,6	21,4
C3	13,01	12,86	12,84	12,81	18,9	7,6	21,4

802.11n HT40/ac VHT40							
Channel	Tx1 (dBm)	Tx2 (dBm)	Tx3 (dBm)	Tx4 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)
C14	14,09	14,12	14,01	13,86	20,0	7,6	21,4
C15	14,73	14,55	14,47	14,2	20,5	7,6	21,4

802.11ac VHT80							
Channel	Tx1 (dBm)	Tx2 (dBm)	Tx3 (dBm)	Tx4 (dBm)	TxAll (dBm)	AG (dBi)	Tx Limit FCC (dBm)
C24	12,93	13,1	12,65	12,33	18,8	7,6	21,4



Results for Master Power spectral density :

802.11a							
Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	Tx3 (dBm/MHz)	Tx4 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)
C1	1,72	2,16	1,89	2,99	8,2	7,6	8,4
C2	2,43	2,28	1,53	2,04	8,1	7,6	8,4
C3	1,1	2,32	2,05	2,27	8,0	7,6	8,4

802.11n HT20/ac VHT20							
Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	Tx3 (dBm/MHz)	Tx4 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)
C1	2,27	2,59	1,98	2,13	8,3	7,6	8,4
C2	1,93	1,44	1,83	1,79	7,8	7,6	8,4
C3	2,15	1,9	1,97	1,83	8,0	7,6	8,4

802.11n HT40/ac VHT40							
Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	Tx3 (dBm/MHz)	Tx4 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)
C14	0,21	0,62	1,54	-0,05	6,6	7,6	8,4
C15	0,88	0,77	0,53	0,2	6,6	7,6	8,4

802.11ac VHT80							
Channel	Tx1 (dBm/MHz)	Tx2 (dBm/MHz)	Tx3 (dBm/MHz)	Tx4 (dBm/MHz)	TxAll (dBm/MHz)	AG (dBi)	Tx Limit FCC (dBm/MHz)
C24	-3	-2,89	-3,14	-3,61	2,9	7,6	8,4

## 8.6. CONCLUSION

Maximum Conducted Output Power, Maximum Power Spectral Density, Maximum EIRP, Maximum EIRP Power Spectral Density 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.

## 9. TRANSMIT POWER CONTROL

### 9.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER  
Date of test : June 5, 2018  
Ambient temperature : 23 °C  
Relative humidity : 41 %

### 9.2. 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)
- KDB 789033 D02 General UNII Test Procedures New Rules v02r01 § E2 c) (Method SA-2)
- KDB 662911 D01 Multiple Transmitter Output v02r01



Photograph for Transmit Power Control



### 9.3. LIMIT

FCC Part 15.407 & RSS-247

TPC Min (EIRP):

5250MHz-5350MHz: Shall not exceed 24dBm

5470MHz-5725MHz: Shall not exceed 24dBm

### 9.4. 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

## 9.5. RESULTS

